

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN041420\
 Data File : BN010489.D
 Acq On : 14 Apr 2020 22:06
 Operator : CG/JU
 Sample : L2178-02
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :

Quant Time: Apr 14 22:42:27 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN041320.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 13 18:04:22 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.61	152	4075	0.40	ng	0.00
7) Naphthalene-d8	10.37	136	16782	0.40	ng	0.00
13) Acenaphthene-d10	14.22	164	10927	0.40	ng	0.00
19) Phenanthrene-d10	16.97	188	25971	0.40	ng	0.00
27) Chrysene-d12	21.17	240	26627	0.40	ng	-0.01
34) Perylene-d12	23.35	264	23626	0.40	ng	-0.01

System Monitoring Compounds						
4) 2-Fluorophenol	5.25	112	1892	0.21	ng	0.00
5) Phenol-d6	6.79	99	1349	0.12	ng	0.00
8) Nitrobenzene-d5	8.73	82	9069	0.77	ng	-0.01
11) 2-Methylnaphthalene-d10	11.96	152	10965	0.40	ng	0.00
14) 2,4,6-Tribromophenol	15.72	330	2616	0.51	ng	0.00
15) 2-Fluorobiphenyl	12.84	172	31390	0.79	ng	0.00
25) Fluoranthene-d10	19.01	212	31631	0.40	ng	0.00
29) Terphenyl-d14	19.62	244	44983	0.74	ng	0.00

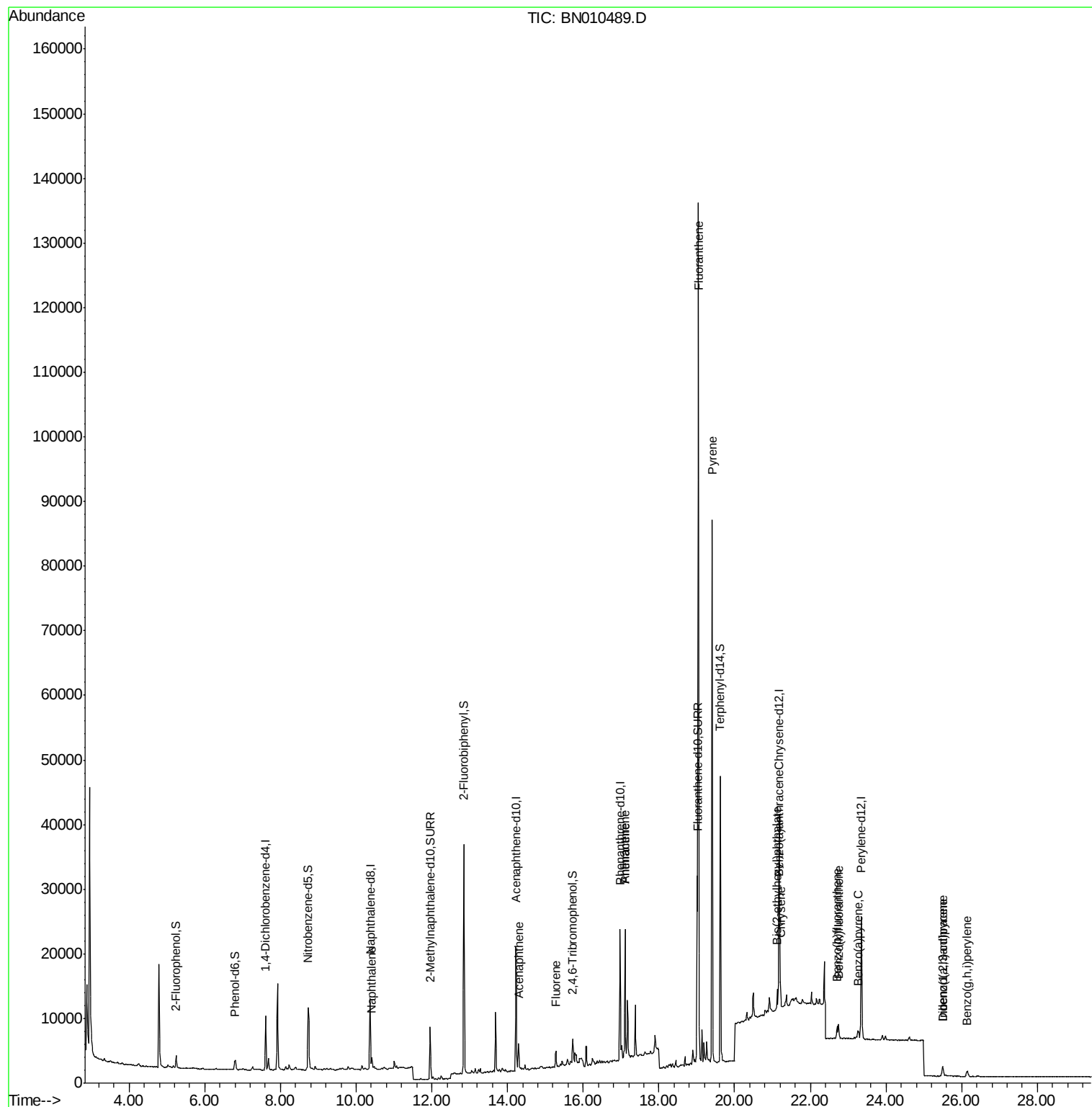
Target Compounds				Qvalue		
9) Naphthalene	10.41	128	2468	0.059	ng	# 86
17) Acenaphthene	14.29	154	1779	0.059	ng	94
18) Fluorene	15.28	166	1768	0.045	ng	# 81
23) Phenanthrene	17.10	178	21417	0.305	ng	97
24) Anthracene	17.10	178	21417	0.334	ng	97
26) Fluoranthene	19.04	202	118171	1.354	ng	100
28) Pyrene	19.41	202	76291	0.851	ng	99
30) Benzo(a)anthracene	21.16	228	4208	0.048	ng	# 81
31) Chrysene	21.22	228	3894	0.045	ng	# 80
32) Bis(2-ethylhexyl)phthalate	21.12	149	2992	0.067	ng	# 97
33) Indeno(1,2,3-cd)pyrene	25.49	276	1824	0.024	ng	# 90
35) Benzo(b)fluoranthene	22.70	252	2279	0.029	ng	# 25
36) Benzo(k)fluoranthene	22.75	252	2208	0.028	ng	# 4
37) Benzo(a)pyrene	23.26	252	1956	0.028	ng	# 7
38) Dibenzo(a,h)anthracene	25.51	278	1398	0.022	ng	# 24
39) Benzo(g,h,i)perylene	26.14	276	1812	0.029	ng	# 63

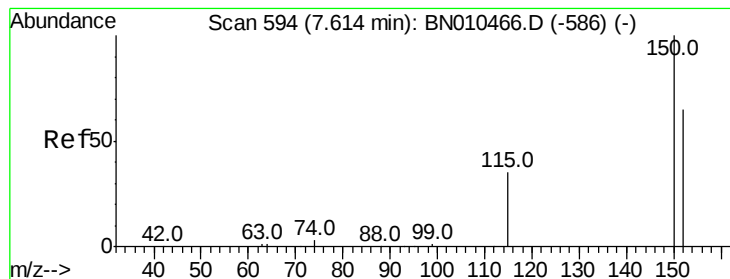
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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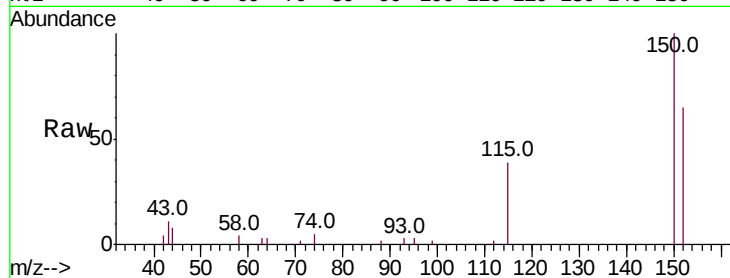


#1

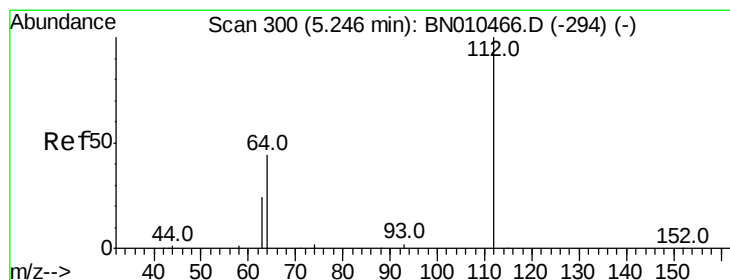
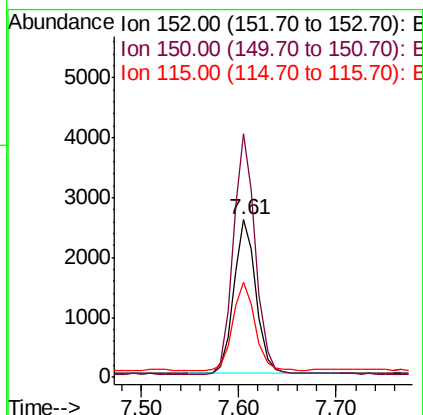
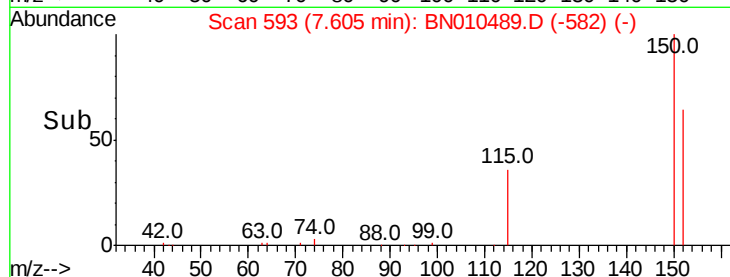
1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.61 min Scan# 593
 Delta R.T. -0.01 min
 Lab File: BN010489.D
 Acq: 14 Apr 2020 22:06

Instrument :
 BNA_N
 ClientSampled :

Tot Ion:152 Resp: 4075
 Ion Ratio Lower Upper
 152 100
 150 154.4 121.8 182.6
 115 60.5 45.5 68.3



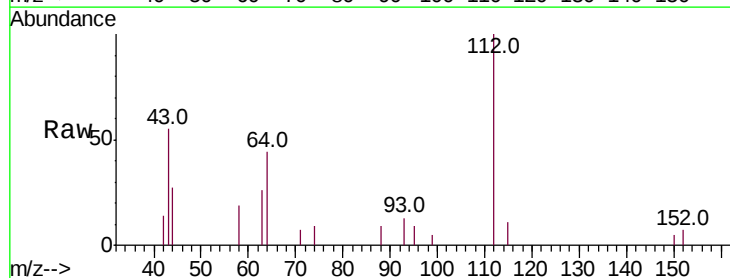
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



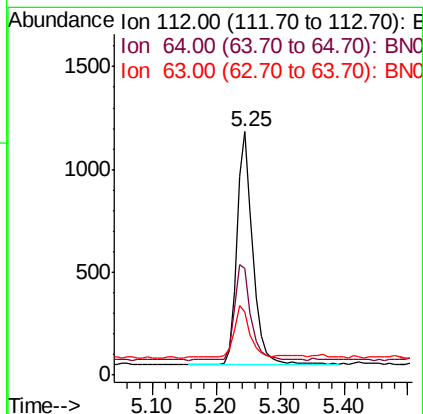
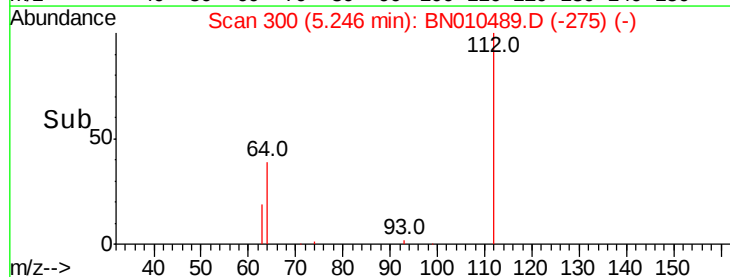
#4

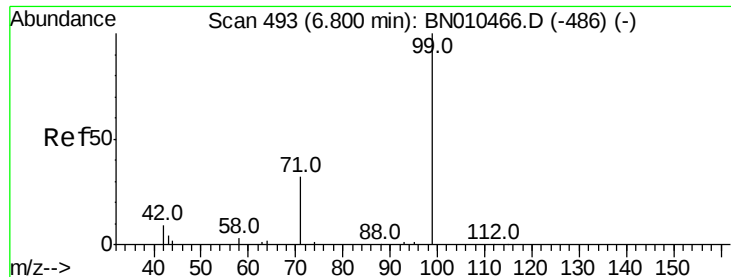
2-Fluorophenol
 Concen: 0.212 ng
 RT: 5.25 min Scan# 300
 Delta R.T. -0.00 min
 Lab File: BN010489.D
 Acq: 14 Apr 2020 22:06

Tgt Ion:112 Resp: 1892
 Ion Ratio Lower Upper
 112 100
 64 43.4 35.8 53.8
 63 22.0 19.9 29.9



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





#5

Phenol-d6

Concen: 0.116 ng

RT: 6.79 min Scan# 492

Delta R.T. -0.01 min

Lab File: BN010489.D

Acq: 14 Apr 2020 22:06

Instrument :

BNA_N

ClientSampleId :

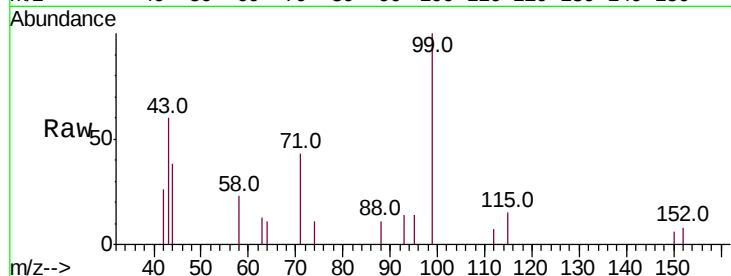
Tot Ion: 99 Resp: 1349

Ion Ratio Lower Upper

99 100

42 18.7 9.8 14.6#

71 39.4 27.8 41.8

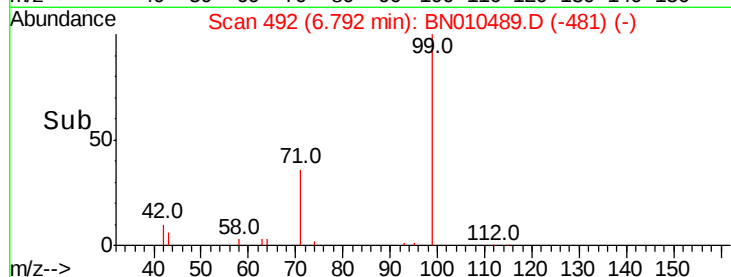


Abundance Ion 99.00 (98.70 to 99.70): BN010466.D (-486) (-)

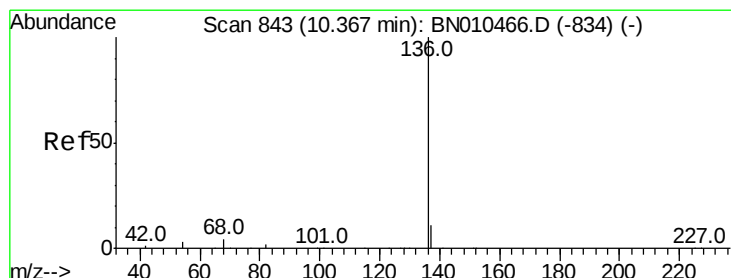
Ion 42.00 (41.70 to 42.70): BN010466.D (-486) (-)

Ion 71.00 (70.70 to 71.70): BN010466.D (-486) (-)

6.79



Time-->



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.37 min Scan# 843

Delta R.T. -0.00 min

Lab File: BN010489.D

Acq: 14 Apr 2020 22:06

Tgt Ion: 136 Resp: 16782

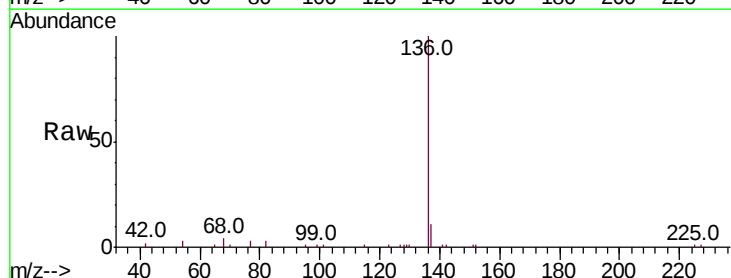
Ion Ratio Lower Upper

136 100

137 11.4 8.9 13.3

54 3.1 2.6 4.0

68 4.2 3.4 5.2



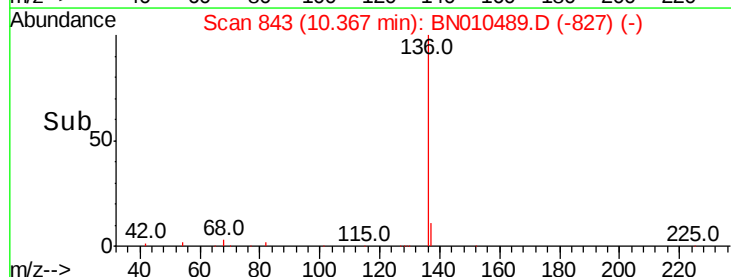
Abundance Ion 136.00 (135.70 to 136.70): BN010466.D (-834) (-)

Ion 137.00 (136.70 to 137.70): BN010466.D (-834) (-)

Ion 54.00 (53.70 to 54.70): BN010466.D (-834) (-)

Ion 68.00 (67.70 to 68.70): BN010466.D (-834) (-)

10.37



Time-->



#8

Nitrobenzene-d5

Concen: 0.773 ng

RT: 8.73 min Scan# 714

Delta R.T. -0.01 min

Lab File: BN010489.D

Acq: 14 Apr 2020 22:06

Instrument :

BNA_N

ClientSampleId :

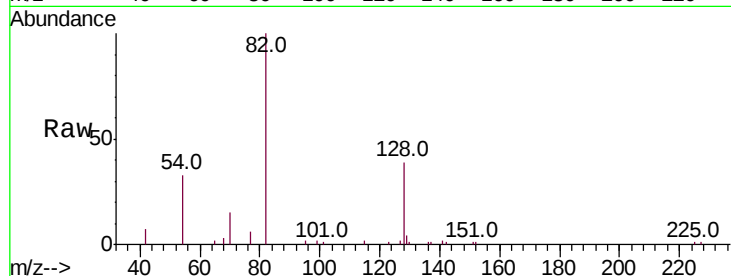
Tot Ion: 82 Resp: 9069

Ion Ratio Lower Upper

82 100

128 38.7 41.3 61.9#

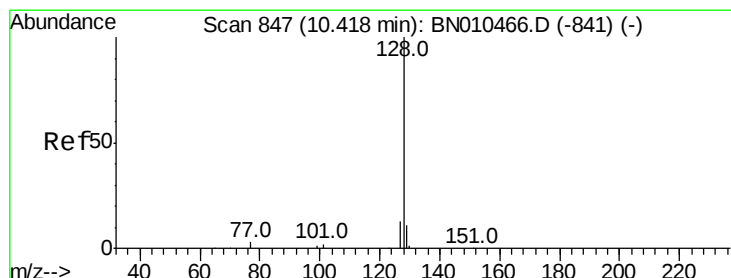
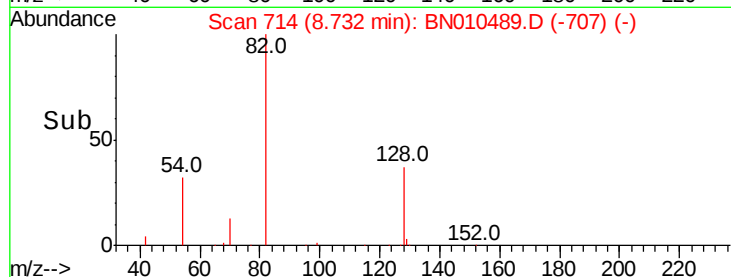
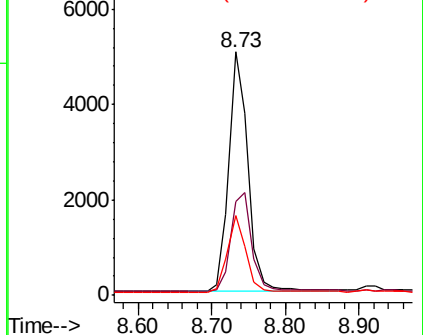
54 32.5 23.4 35.0



Abundance Ion 82.00 (81.70 to 82.70): BN010466.D (-711) (-)

Ion 128.00 (127.70 to 128.70): BN010466.D (-711) (-)

Ion 54.00 (53.70 to 54.70): BN010466.D (-711) (-)



#9

Naphthalene

Concen: 0.059 ng

RT: 10.41 min Scan# 846

Delta R.T. -0.01 min

Lab File: BN010489.D

Acq: 14 Apr 2020 22:06

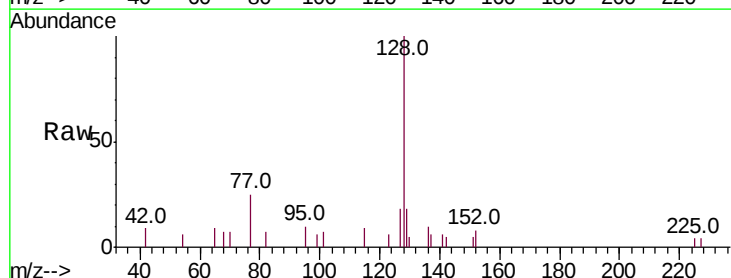
Tgt Ion: 128 Resp: 2468

Ion Ratio Lower Upper

128 100

129 18.0 9.3 13.9#

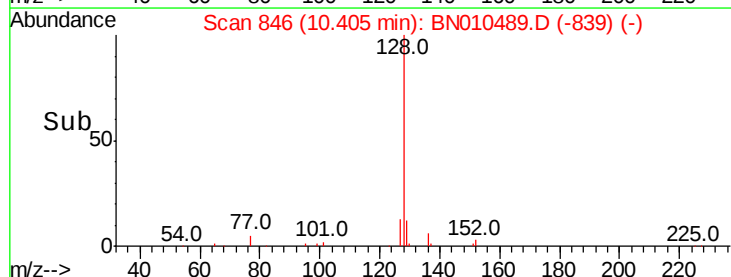
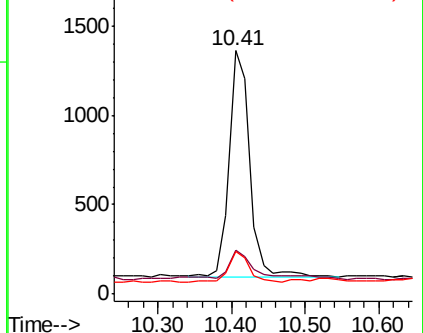
127 17.5 10.5 15.7#

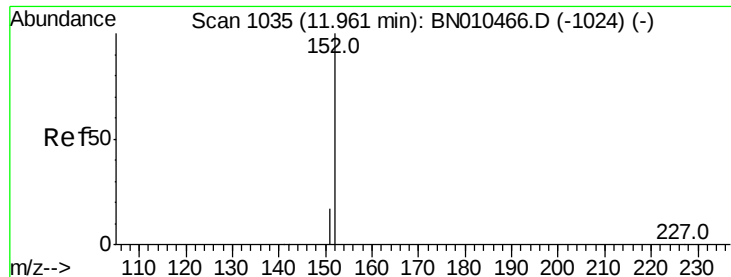


Abundance Ion 128.00 (127.70 to 128.70): BN010466.D (-841) (-)

Ion 129.00 (128.70 to 129.70): BN010466.D (-841) (-)

Ion 127.00 (126.70 to 127.70): BN010466.D (-841) (-)

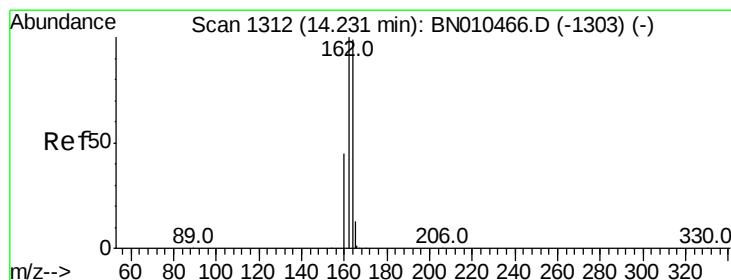
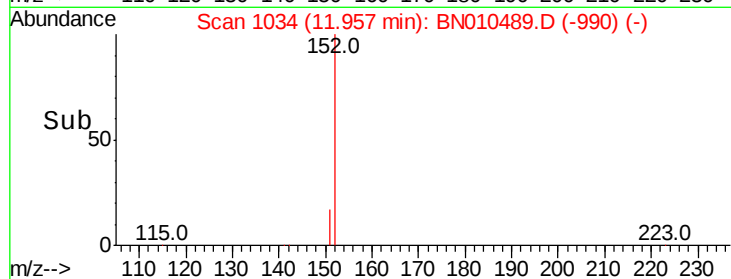
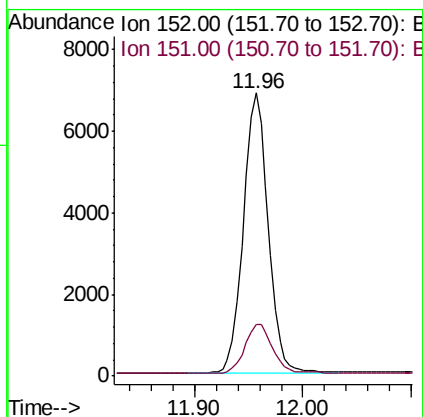
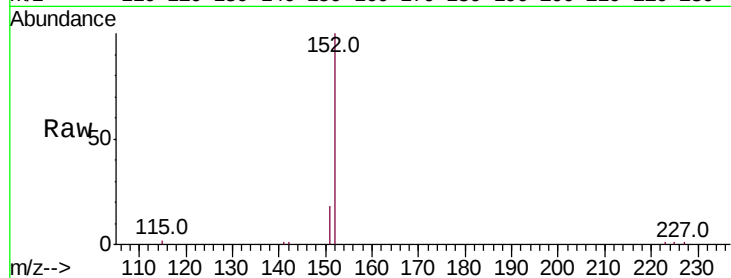




#11
2-Methylnaphthalene-d10
Concen: 0.397 ng
RT: 11.96 min Scan# 1034
Delta R.T. -0.00 min
Lab File: BN010489.D
Acq: 14 Apr 2020 22:06

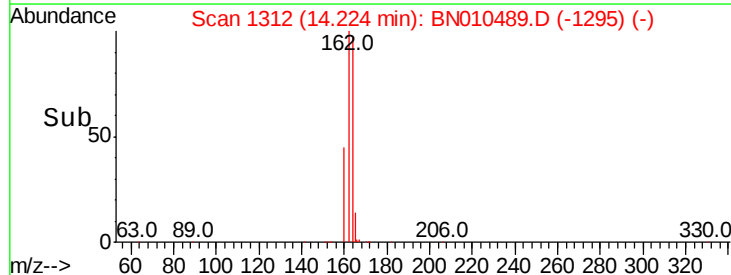
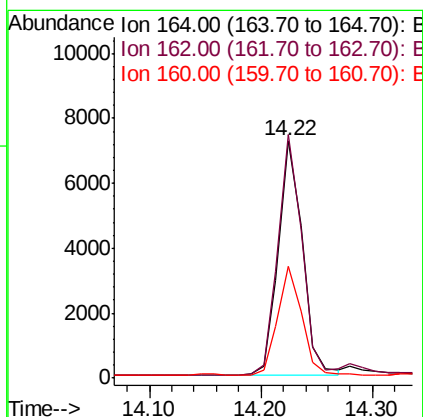
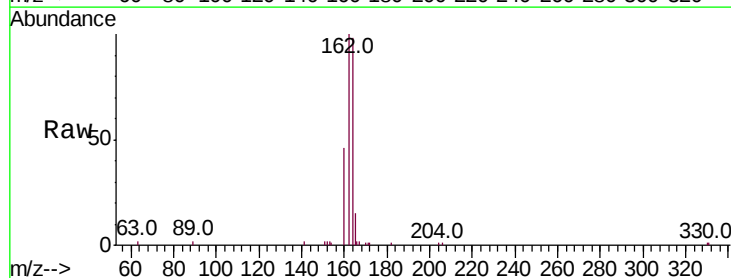
Instrument :
BNA_N
ClientSampleId :

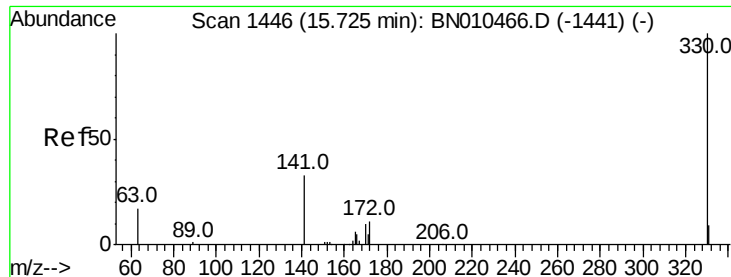
Tot Ion:152 Resp: 10965
Ion Ratio Lower Upper
152 100
151 19.8 15.3 22.9



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.22 min Scan# 1312
Delta R.T. -0.01 min
Lab File: BN010489.D
Acq: 14 Apr 2020 22:06

Tgt Ion:164 Resp: 10927
Ion Ratio Lower Upper
164 100
162 102.5 80.6 121.0
160 46.8 36.5 54.7

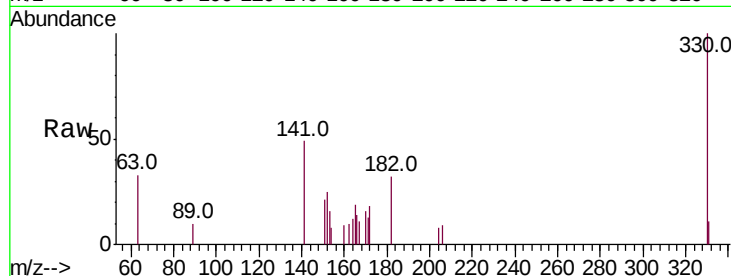




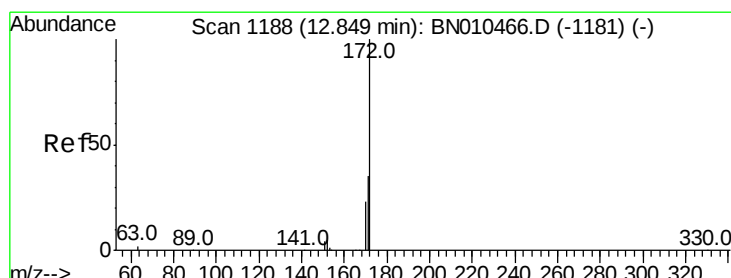
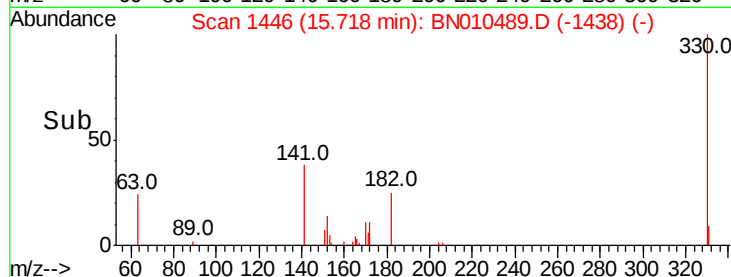
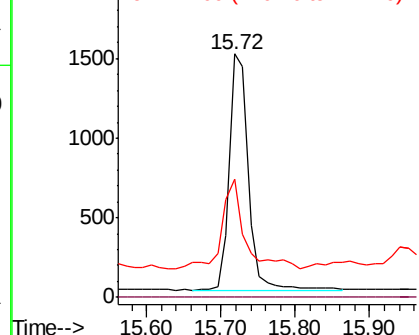
#14
2,4,6-Tribromophenol
Concen: 0.508 ng
RT: 15.72 min Scan# 1446
Delta R.T. -0.01 min
Lab File: BN010489.D
Acq: 14 Apr 2020 22:06

Instrument :
BNA_N
ClientSampleId :

Tot Ion:330 Resp: 2616
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 46.2 28.1 42.1#

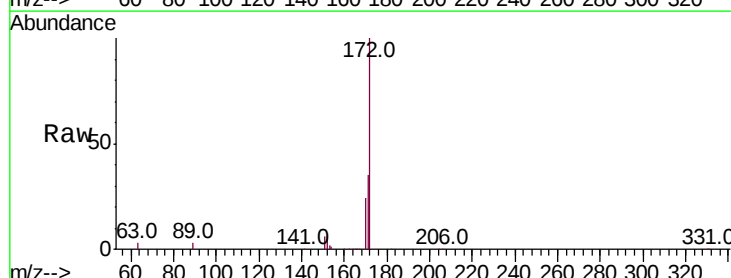


Abundance Ion 330.00 (329.70 to 330.70): E
Ion 331.80 (331.50 to 332.50): E
Ion 141.00 (140.70 to 141.70): E

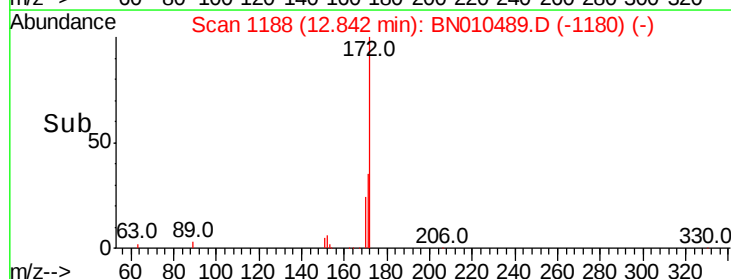
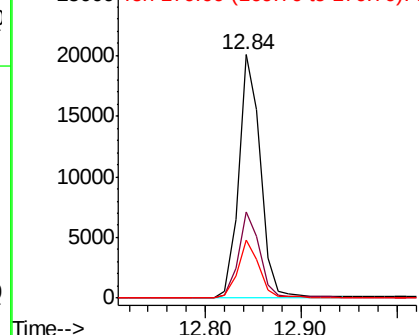


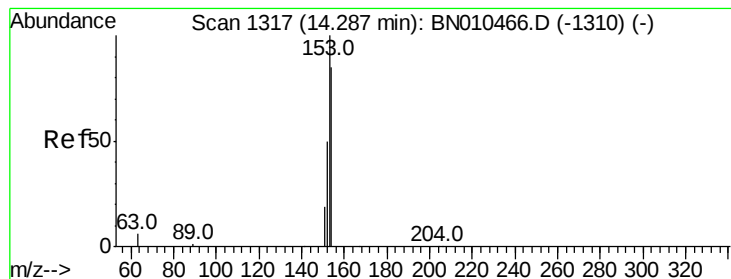
#15
2-Fluorobiphenyl
Concen: 0.789 ng
RT: 12.84 min Scan# 1188
Delta R.T. -0.01 min
Lab File: BN010489.D
Acq: 14 Apr 2020 22:06

Tgt Ion:172 Resp: 31390
Ion Ratio Lower Upper
172 100
171 35.4 28.2 42.2
170 23.9 18.4 27.6



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





#17

Acenaphthene

Concen: 0.059 ng

RT: 14.29 min Scan# 1318

Delta R.T. 0.00 min

Lab File: BN010489.D

Acq: 14 Apr 2020 22:06

Instrument :

BNA_N

ClientSampleId :

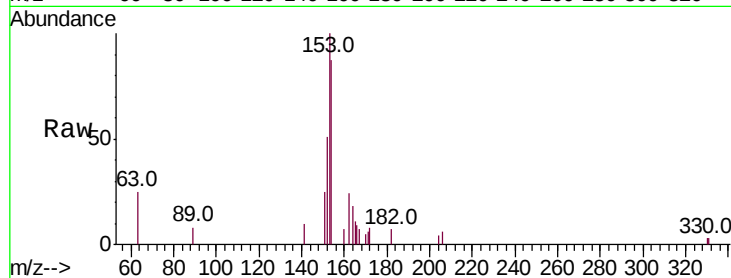
Tot Ion:154 Resp: 1779

Ion Ratio Lower Upper

154 100

153 118.4 91.0 136.4

152 62.5 44.6 67.0

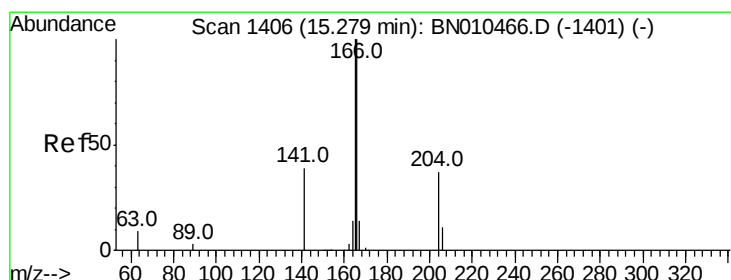
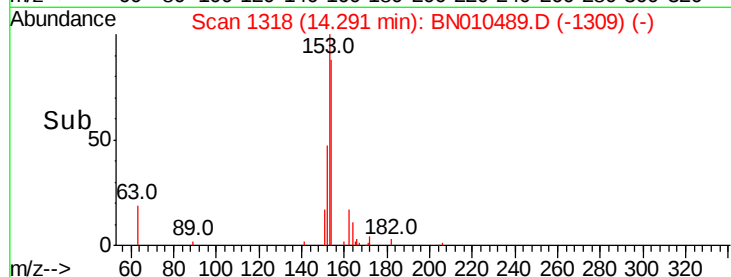
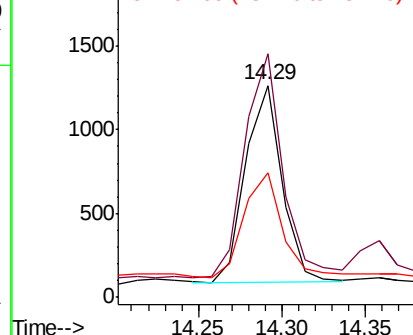


Abundance

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: 0.045 ng

RT: 15.28 min Scan# 1407

Delta R.T. 0.00 min

Lab File: BN010489.D

Acq: 14 Apr 2020 22:06

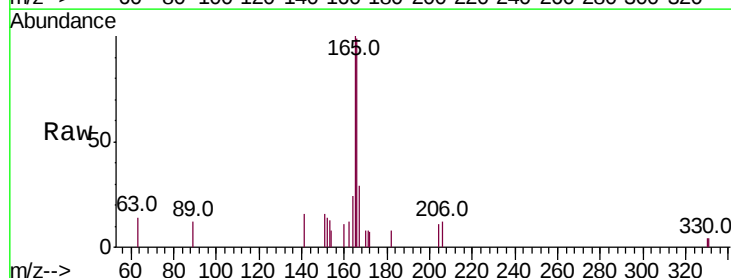
Tgt Ion:166 Resp: 1768

Ion Ratio Lower Upper

166 100

165 84.6 78.4 117.6

167 38.0 10.9 16.3#

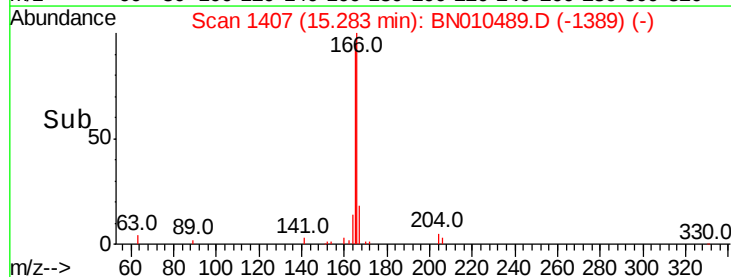
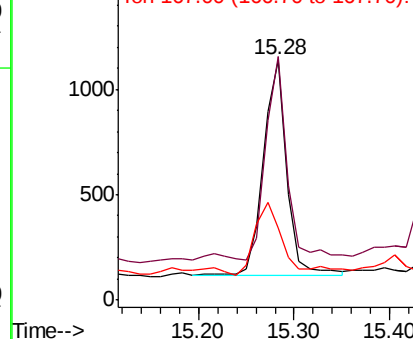


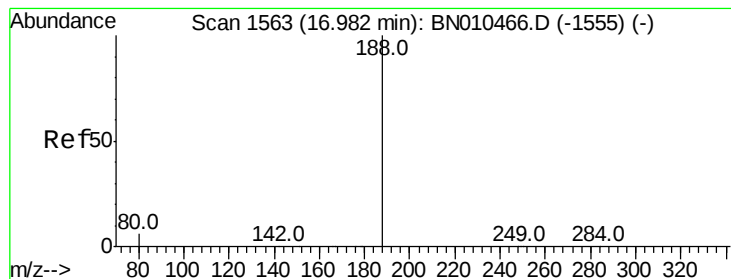
Abundance

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: 16.97 min Scan# 1563

Delta R.T. -0.01 min

Lab File: BN010489.D

Acq: 14 Apr 2020 22:06

Instrument :

BNA_N

ClientSampleId :

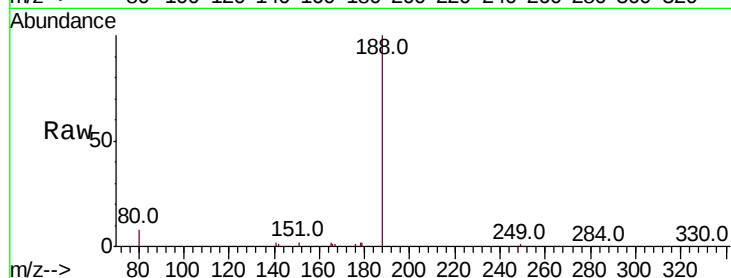
Tot Ion:188 Resp: 25971

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

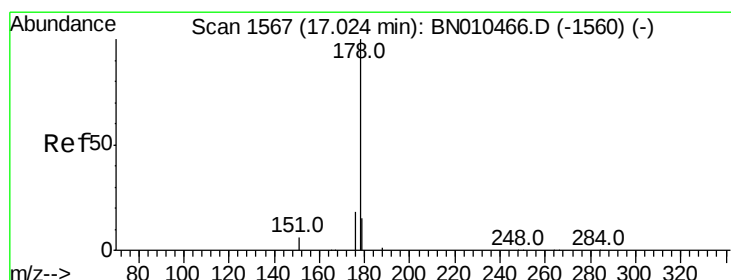
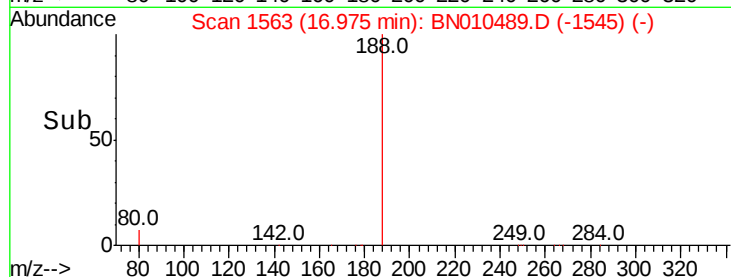
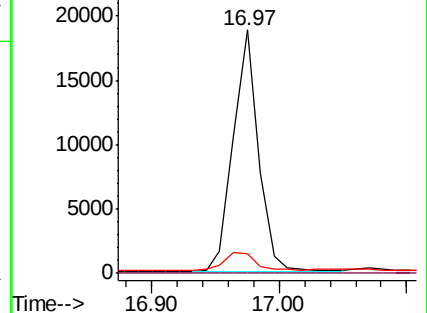
80 7.9 5.0 7.6#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BNO

Ion 80.00 (79.70 to 80.70): BNO



#23

Phenanthrene

Concen: 0.305 ng

RT: 17.10 min Scan# 1575

Delta R.T. 0.08 min

Lab File: BN010489.D

Acq: 14 Apr 2020 22:06

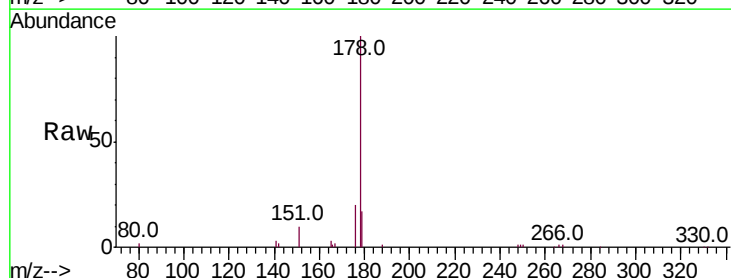
Tgt Ion:178 Resp: 21417

Ion Ratio Lower Upper

178 100

176 18.3 15.0 22.4

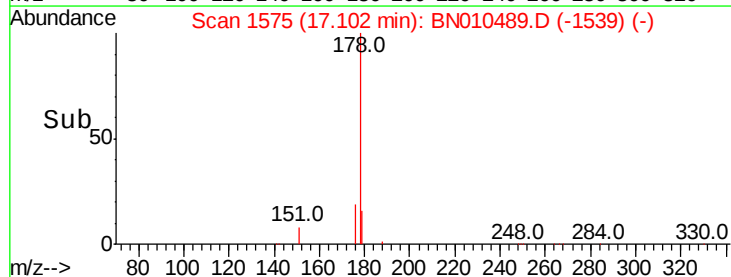
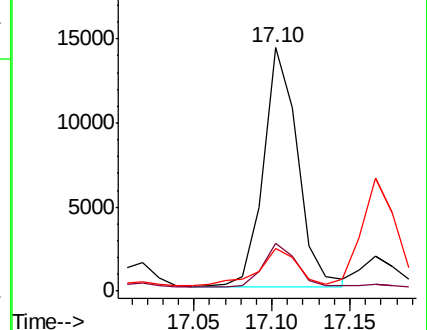
179 18.1 12.6 18.8

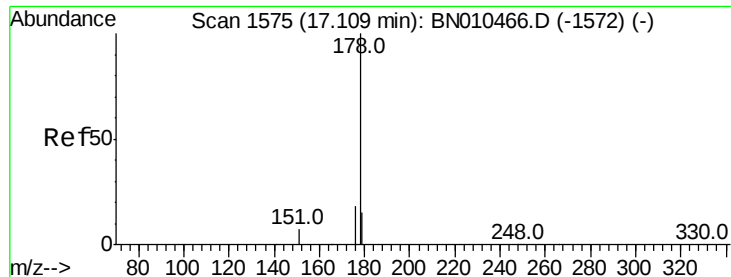


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#24

Anthracene

Concen: 0.334 ng

RT: 17.10 min Scan# 1575

Delta R.T. -0.01 min

Lab File: BN010489.D

Acq: 14 Apr 2020 22:06

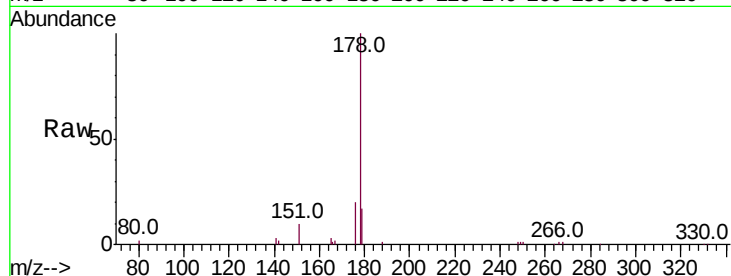
Instrument :

BNA_N

ClientSampleId :

Tot Ion:178 Resp: 21417

Ion	Ratio	Lower	Upper
178	100		
176	18.3	14.6	21.8
179	18.0	12.2	18.2

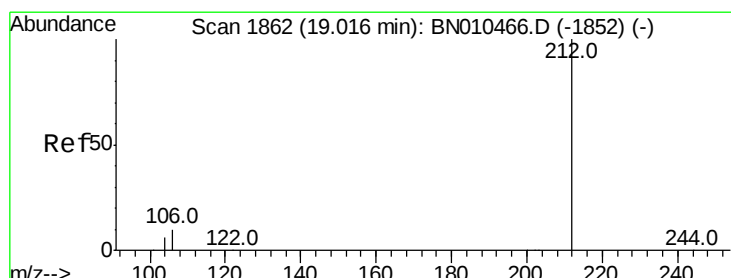
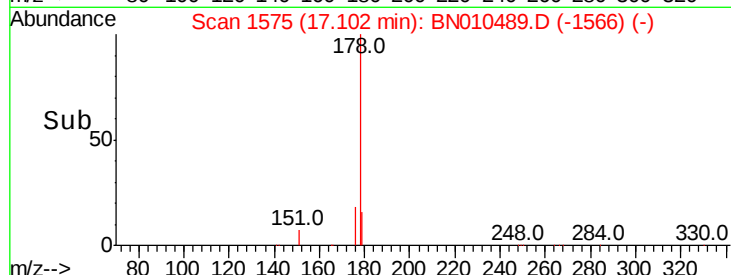
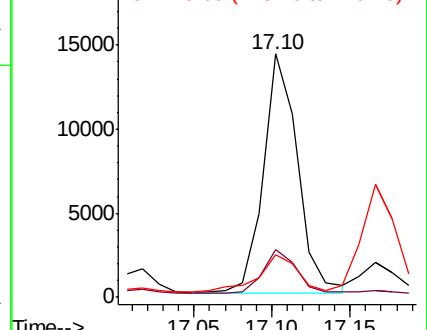


Abundance

Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#25

Fluoranthene-d10

Concen: 0.402 ng

RT: 19.01 min Scan# 1863

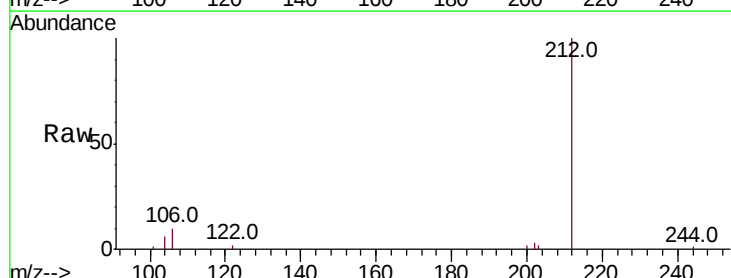
Delta R.T. -0.00 min

Lab File: BN010489.D

Acq: 14 Apr 2020 22:06

Tgt Ion:212 Resp: 31631

Ion	Ratio	Lower	Upper
212	100		
106	10.7	7.8	11.6
104	6.0	4.5	6.7

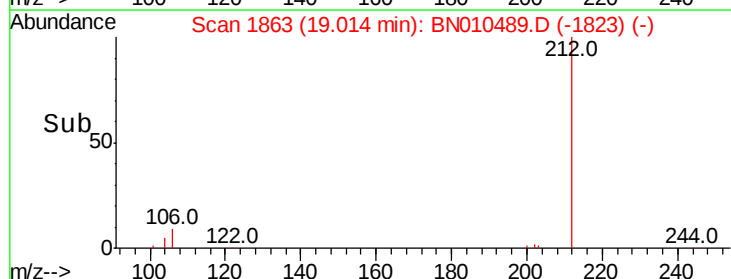
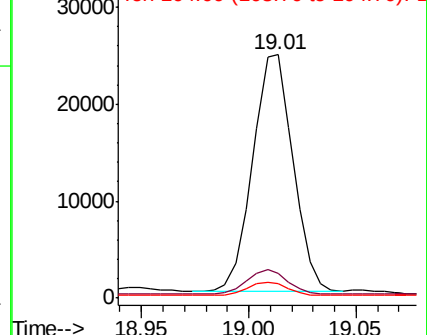


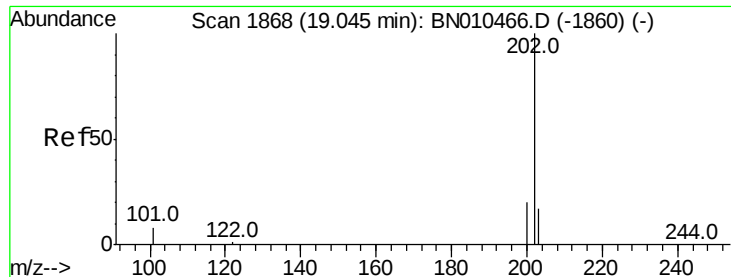
Abundance

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

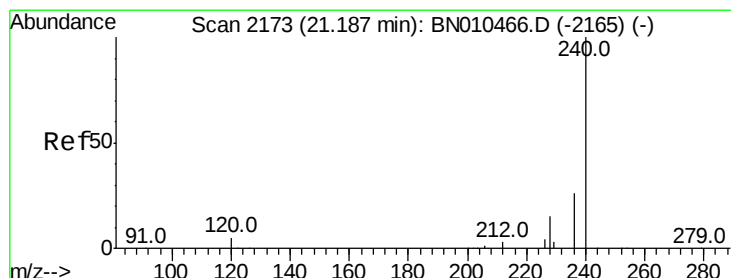
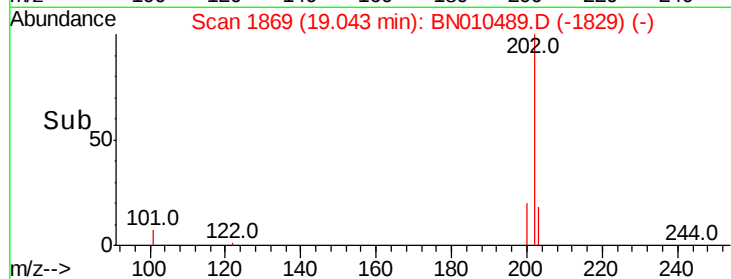
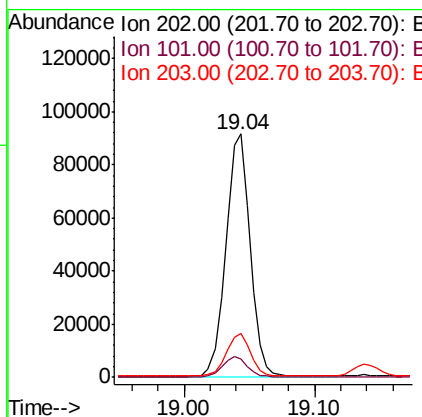
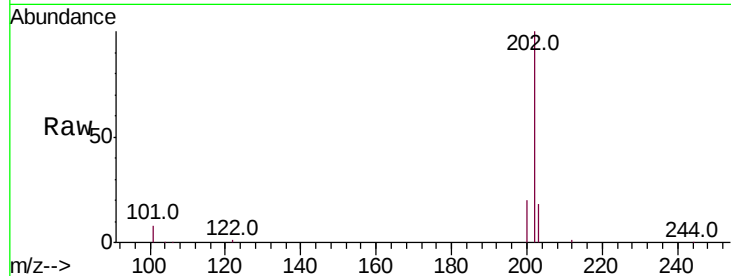




#26
 Fluoranthene
 Concen: 1.354 ng
 RT: 19.04 min Scan# 1869
 Delta R.T. -0.00 min
 Lab File: BN010489.D
 Acq: 14 Apr 2020 22:06

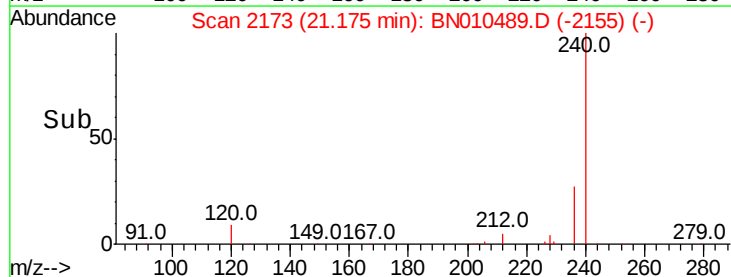
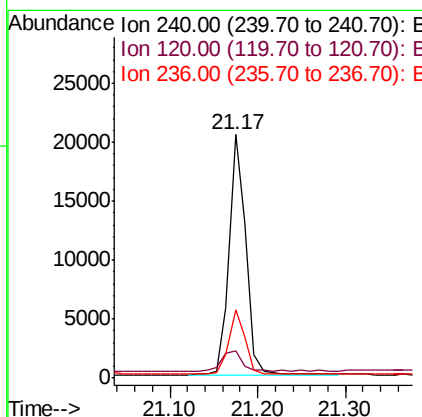
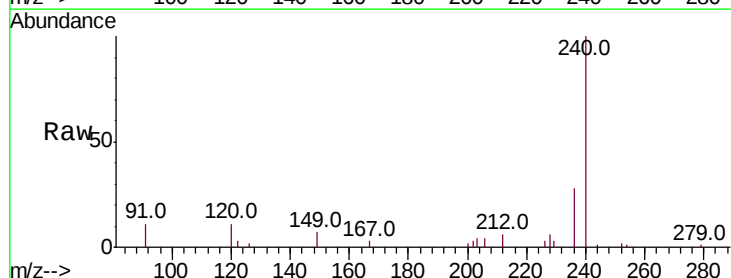
Instrument :
 BNA_N
 ClientSampleId :

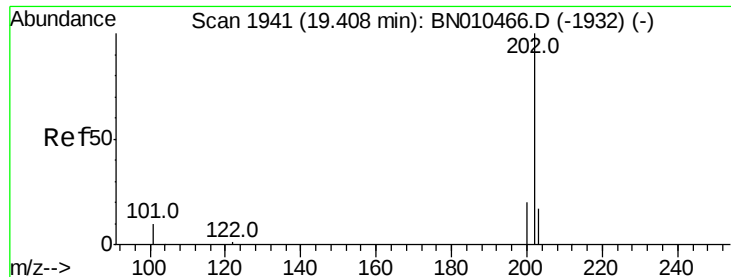
Tot Ion:202 Resp: 118171
 Ion Ratio Lower Upper
 202 100
 101 8.6 6.9 10.3
 203 17.2 13.9 20.9



#27
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.17 min Scan# 2173
 Delta R.T. -0.01 min
 Lab File: BN010489.D
 Acq: 14 Apr 2020 22:06

Tgt Ion:240 Resp: 26627
 Ion Ratio Lower Upper
 240 100
 120 11.5 4.8 7.2#
 236 28.0 21.4 32.0

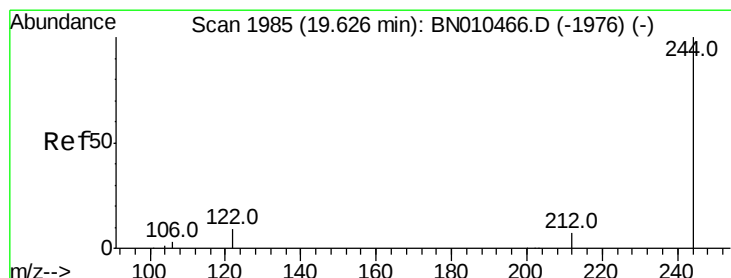
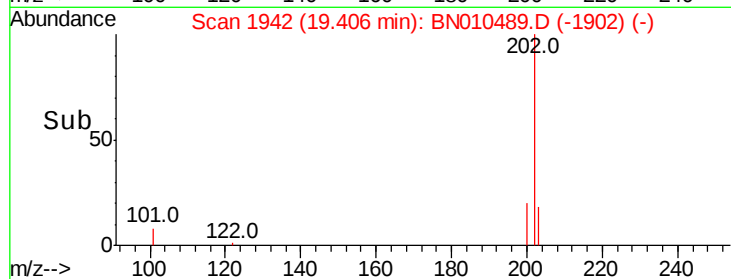
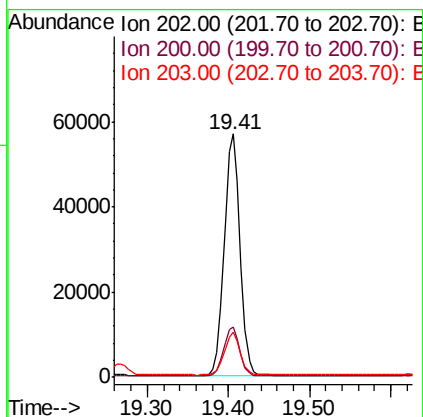
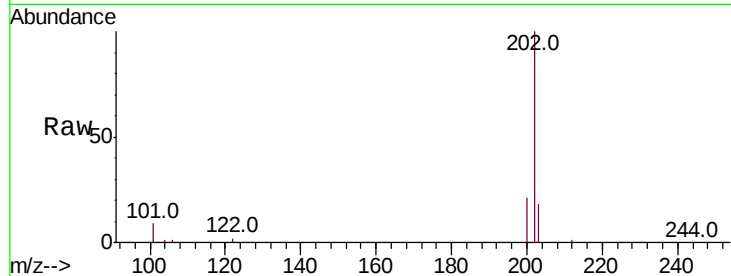




#28
Pvrene
Concen: 0.851 ng
RT: 19.41 min Scan# 1942
Delta R.T. -0.00 min
Lab File: BN010489.D
Acq: 14 Apr 2020 22:06

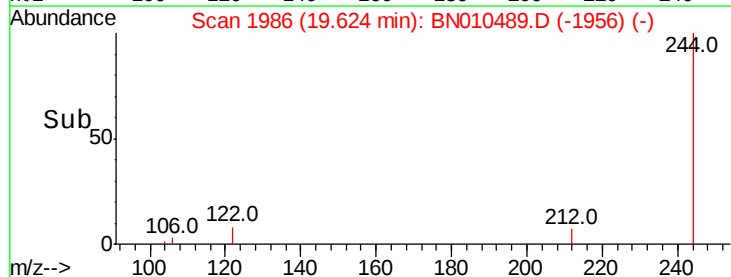
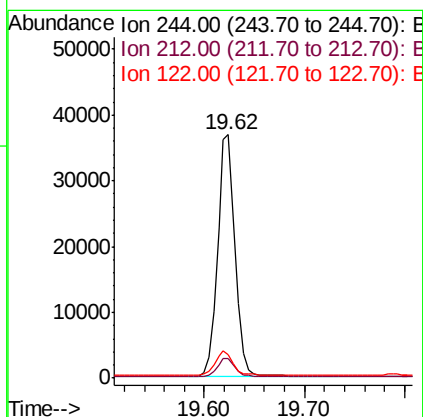
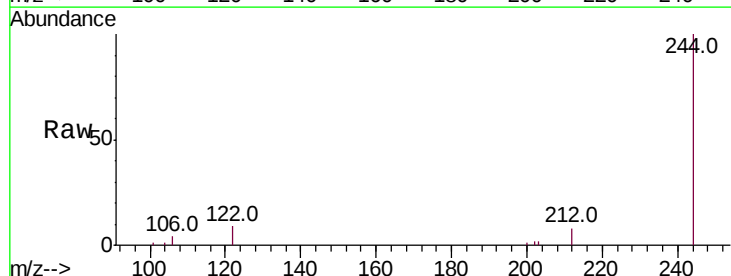
Instrument :
BNA_N
ClientSampleId :

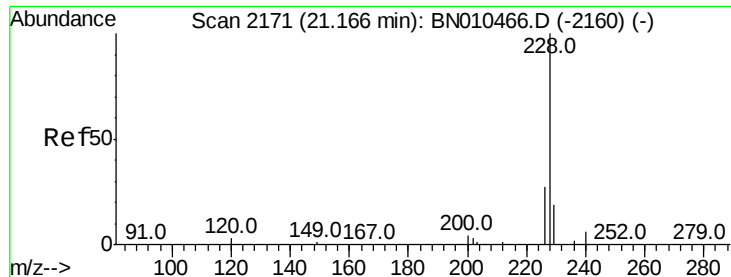
Tot Ion:202 Resp: 76291
Ion Ratio Lower Upper
202 100
200 20.7 16.3 24.5
203 17.8 14.0 21.0



#29
Terphenyl-d14
Concen: 0.738 ng
RT: 19.62 min Scan# 1986
Delta R.T. -0.00 min
Lab File: BN010489.D
Acq: 14 Apr 2020 22:06

Tgt Ion:244 Resp: 44983
Ion Ratio Lower Upper
244 100
212 8.0 6.2 9.4
122 9.4 7.8 11.8

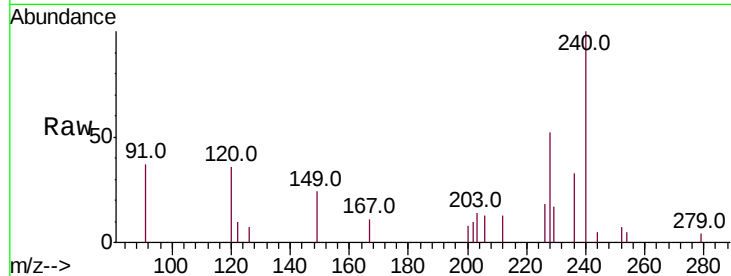




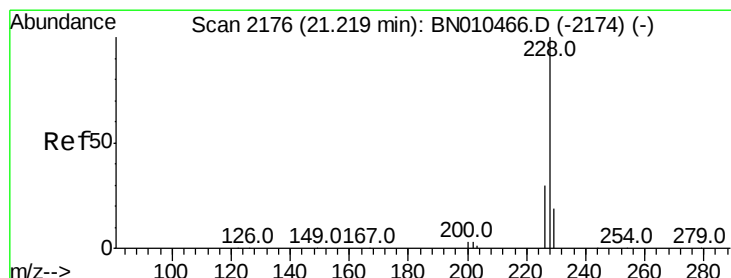
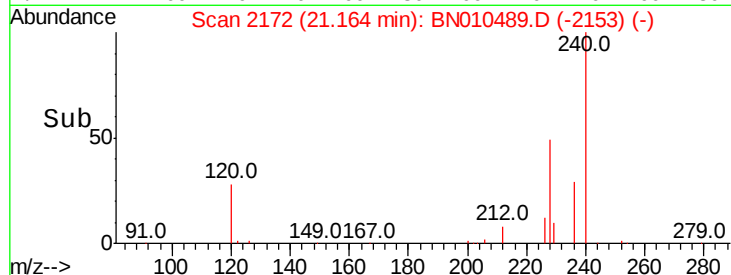
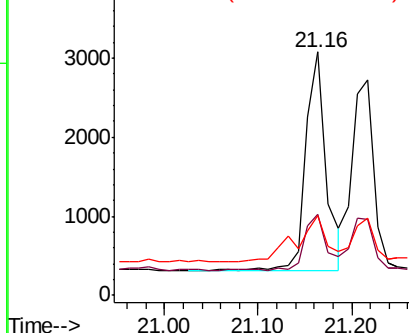
#30
Benzo(a)anthracene
Concen: 0.048 ng
RT: 21.16 min Scan# 2172
Delta R.T. -0.00 min
Lab File: BN010489.D
Acq: 14 Apr 2020 22:06

Instrument :
BNA_N
ClientSampleId :

Tot Ion:228 Resp: 4208
Ion Ratio Lower Upper
228 100
226 33.5 21.7 32.5#
229 32.6 15.6 23.4#

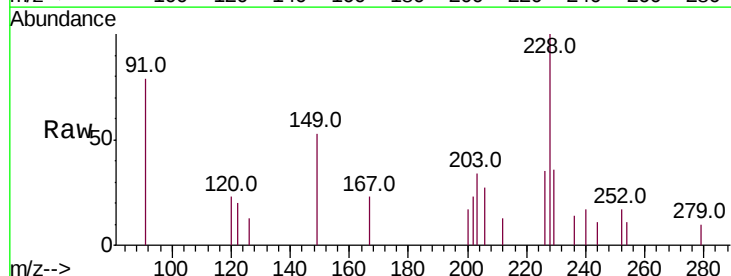


Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

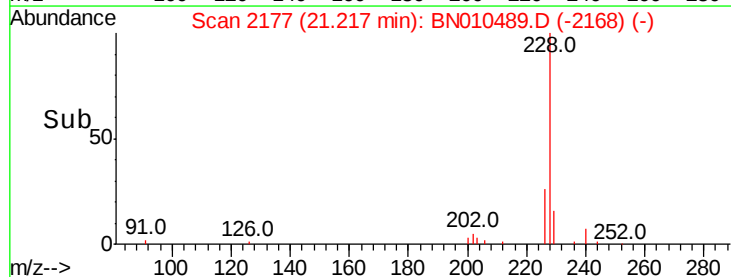
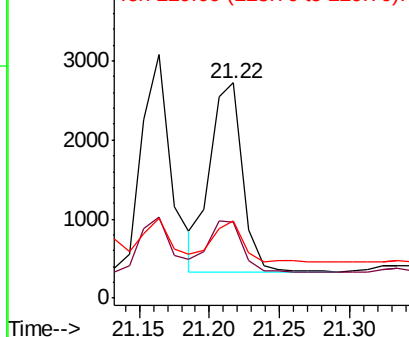


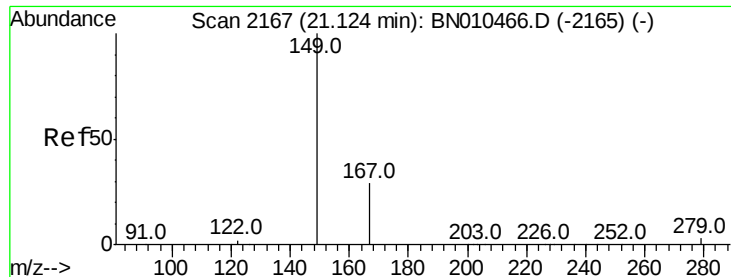
#31
Chrysene
Concen: 0.045 ng
RT: 21.22 min Scan# 2177
Delta R.T. -0.00 min
Lab File: BN010489.D
Acq: 14 Apr 2020 22:06

Tgt Ion:228 Resp: 3894
Ion Ratio Lower Upper
228 100
226 35.5 24.0 36.0
229 35.9 15.8 23.6#



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: 0.067 ng

RT: 21.12 min Scan# 2168

Delta R.T. -0.00 min

Lab File: BN010489.D

Acq: 14 Apr 2020 22:06

Instrument :

BNA_N

ClientSampleId :

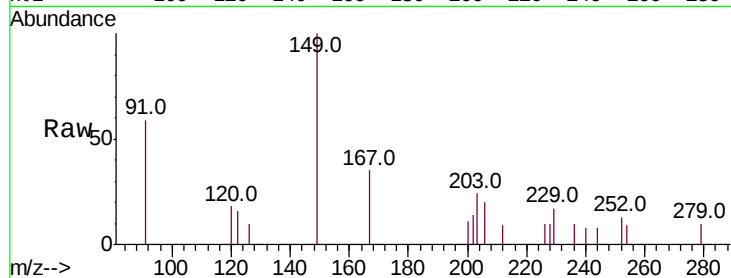
Tot Ion:149 Resp: 2992

Ion Ratio Lower Upper

149 100

167 27.8 23.4 35.0

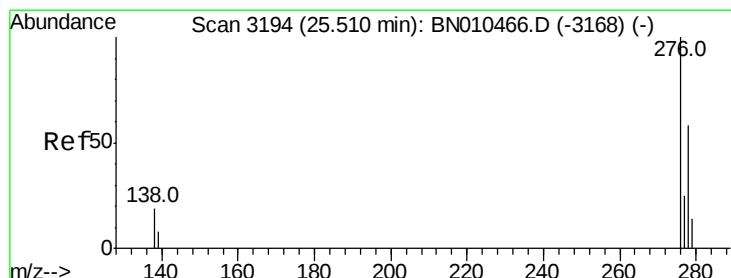
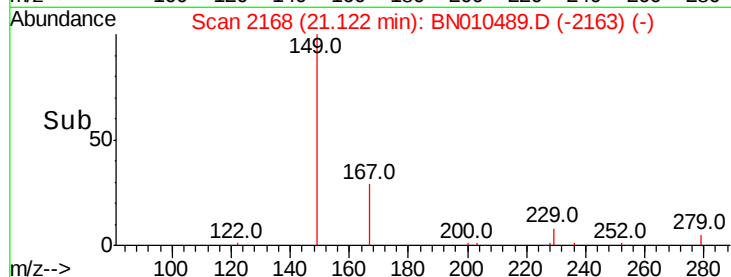
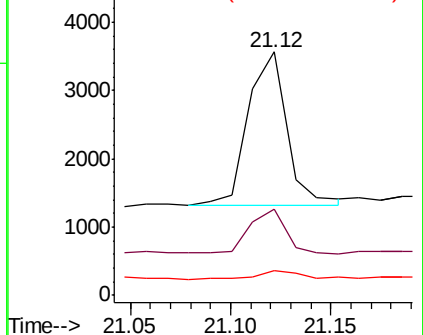
279 6.1 4.0 6.0#



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: 0.024 ng

RT: 25.49 min Scan# 3191

Delta R.T. -0.02 min

Lab File: BN010489.D

Acq: 14 Apr 2020 22:06

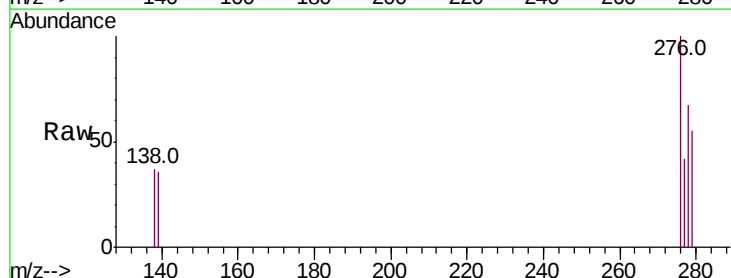
Tgt Ion:276 Resp: 1824

Ion Ratio Lower Upper

276 100

138 12.6 16.4 24.6#

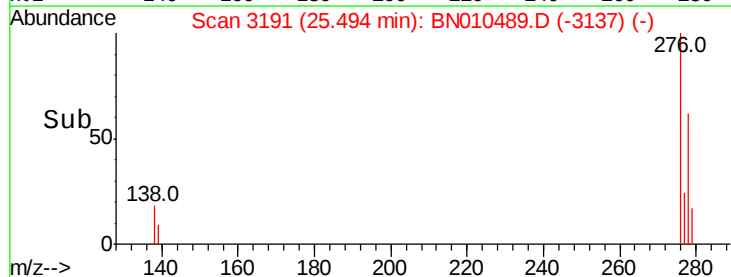
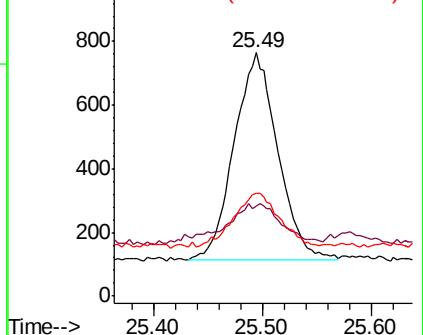
277 26.9 19.8 29.6

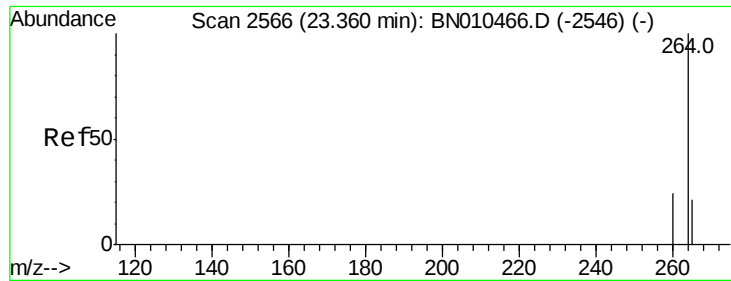


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

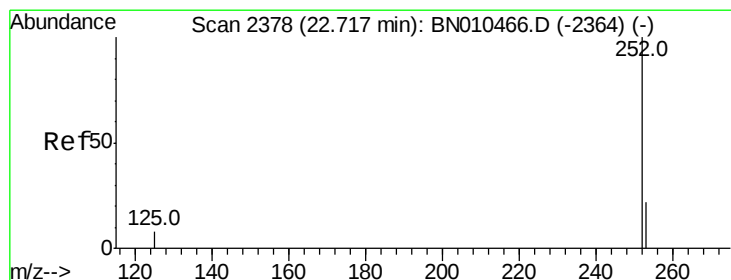
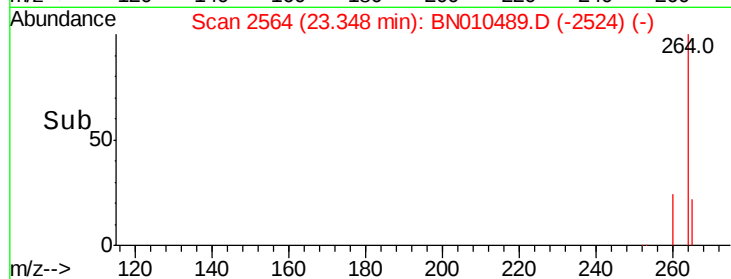
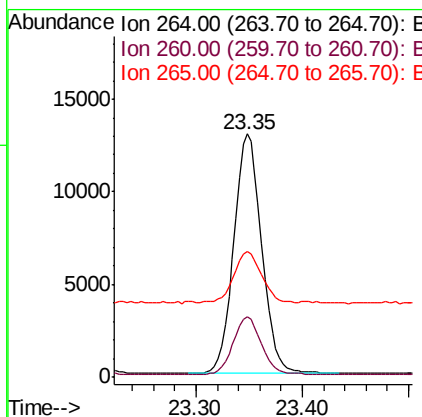
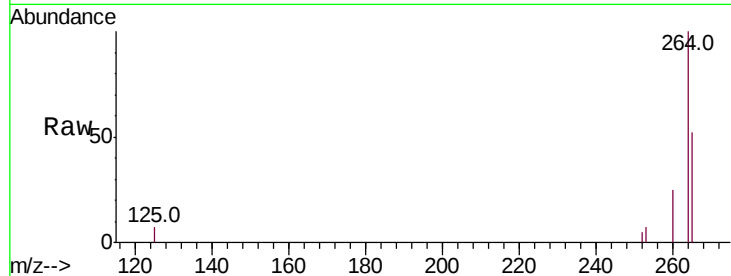




#34
Pervlene-d12
Concen: 0.400 ng
RT: 23.35 min Scan# 2564
Delta R.T. -0.01 min
Lab File: BN010489.D
Acq: 14 Apr 2020 22:06

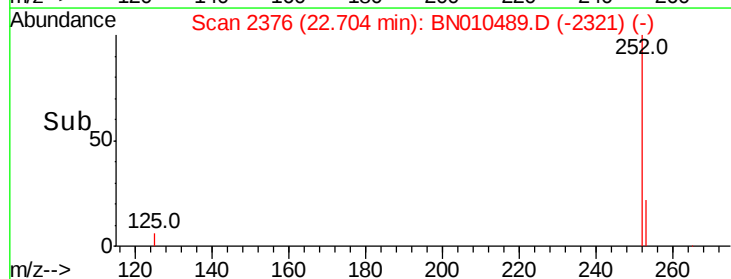
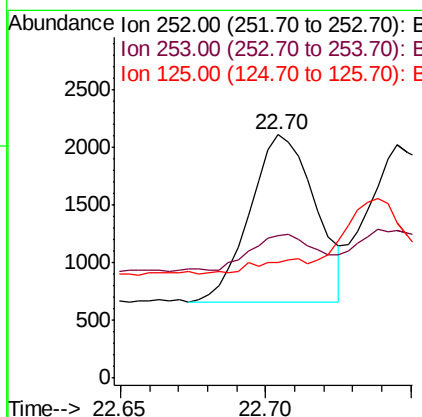
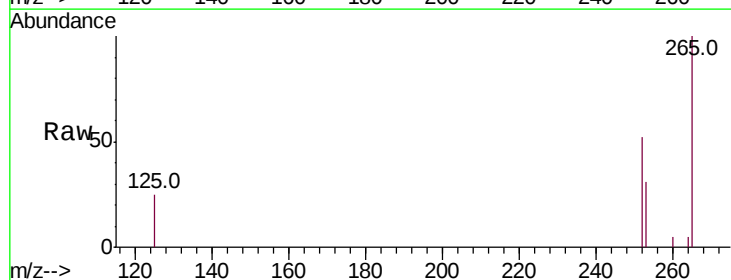
Instrument :
BNA_N
ClientSampleId :

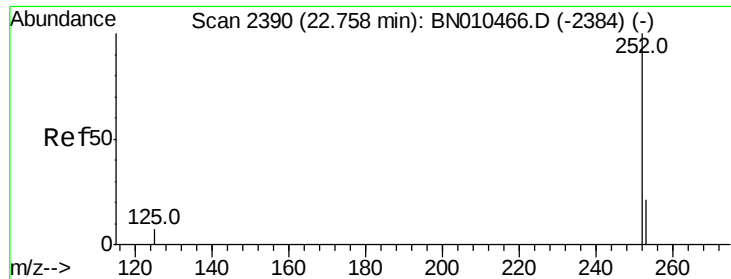
Tot Ion:264 Resp: 23626
Ion Ratio Lower Upper
264 100
260 24.9 19.8 29.8
265 51.8 42.3 63.5



#35
Benzo(b)fluoranthene
Concen: 0.029 ng
RT: 22.70 min Scan# 2376
Delta R.T. -0.01 min
Lab File: BN010489.D
Acq: 14 Apr 2020 22:06

Tgt Ion:252 Resp: 2279
Ion Ratio Lower Upper
252 100
253 58.7 20.2 30.4#
125 47.5 9.2 13.8#





#36

Benzo(k)fluoranthene

Concen: 0.028 ng

RT: 22.75 min Scan# 2388

Delta R.T. -0.01 min

Lab File: BN010489.D

Acq: 14 Apr 2020 22:06

Instrument :

BNA_N

ClientSampleId :

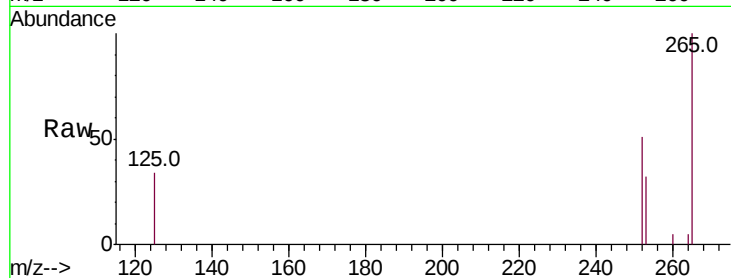
Tot Ion:252 Resp: 2208

Ion Ratio Lower Upper

252 100

253 63.0 20.1 30.1#

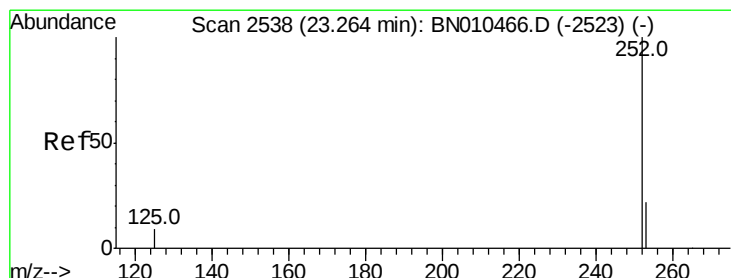
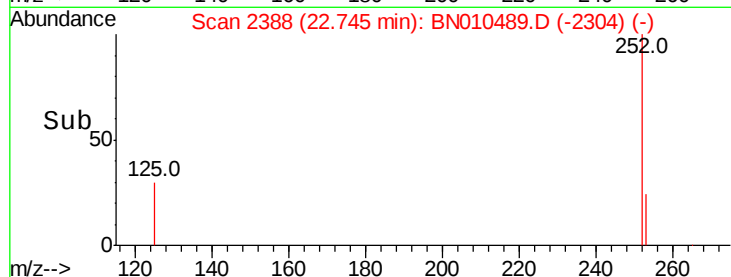
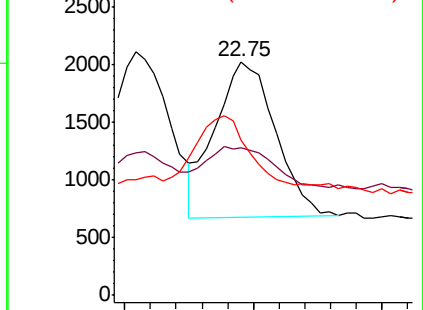
125 66.5 9.6 14.4#



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: 0.028 ng

RT: 23.26 min Scan# 2537

Delta R.T. -0.01 min

Lab File: BN010489.D

Acq: 14 Apr 2020 22:06

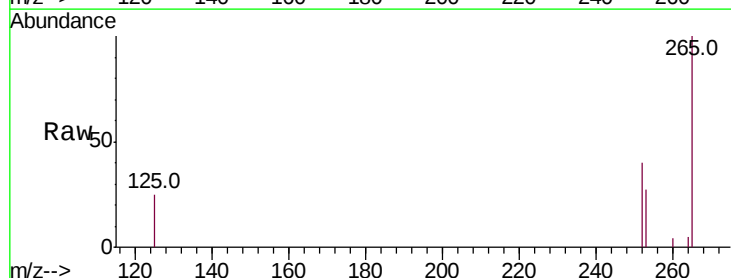
Tgt Ion:252 Resp: 1956

Ion Ratio Lower Upper

252 100

253 68.8 21.8 32.8#

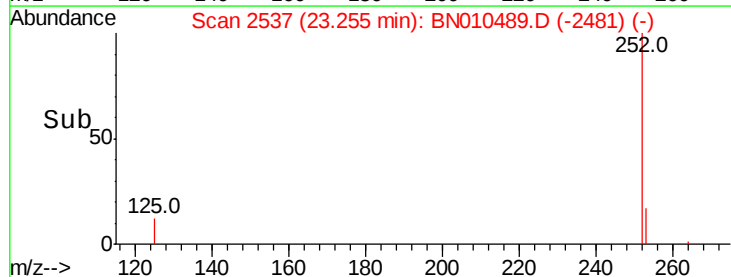
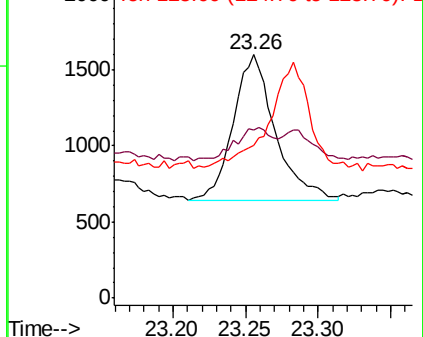
125 62.5 11.0 16.6#

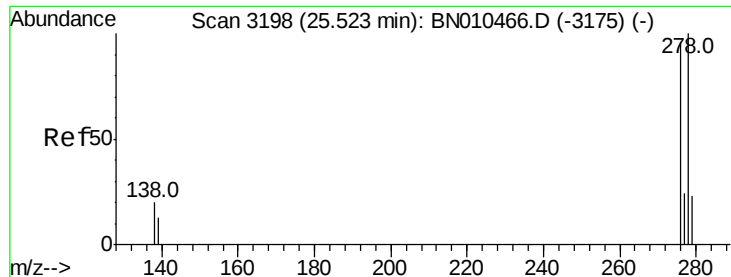


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#38

Dibenzo(a,h)anthracene

Concen: 0.022 ng

RT: 25.51 min Scan# 3195

Delta R.T. -0.02 min

Lab File: BN010489.D

Acq: 14 Apr 2020 22:06

Instrument :

BNA_N

ClientSampleId :

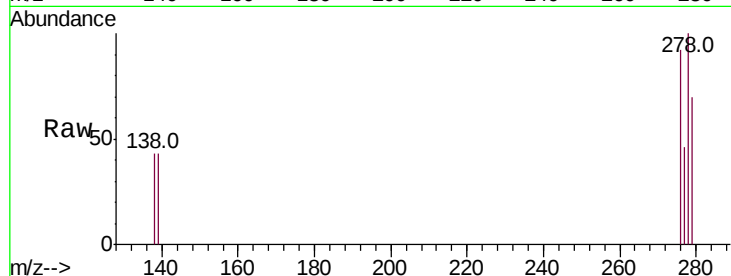
Tot Ion:278 Resp: 1398

Ion Ratio Lower Upper

278 100

139 42.7 12.3 18.5#

279 70.3 21.9 32.9#



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

25.51

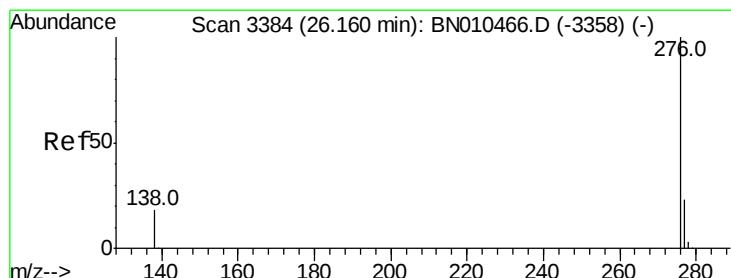
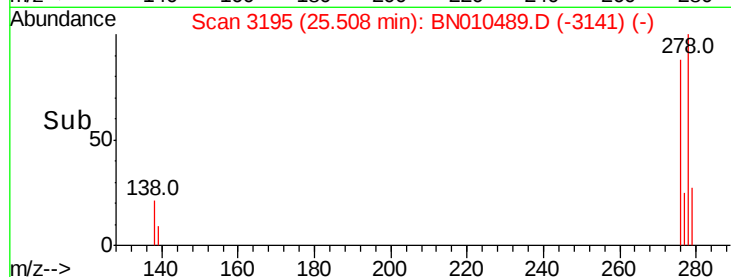
600

400

200

0

Time-->



#39

Benzo(g,h,i)perylene

Concen: 0.029 ng

RT: 26.14 min Scan# 3380

Delta R.T. -0.02 min

Lab File: BN010489.D

Acq: 14 Apr 2020 22:06

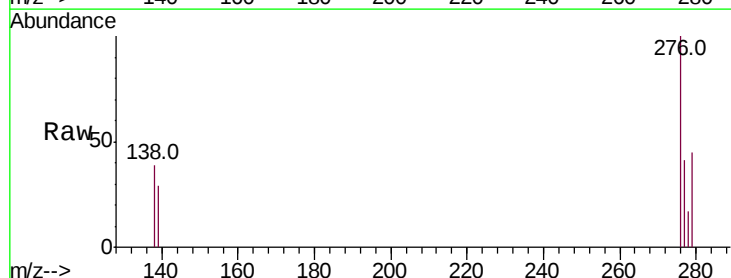
Tgt Ion:276 Resp: 1812

Ion Ratio Lower Upper

276 100

277 41.3 20.2 30.2#

138 39.2 15.4 23.2#



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

26.14

800

600

400

200

0

Time-->

