

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN041420\
 Data File : BN010490.D
 Acq On : 14 Apr 2020 22:42
 Operator : CG/JU
 Sample : L2178-05
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :

Quant Time: Apr 14 23:13:54 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	3767	0.40	ng	0.00
7) Naphthalene-d8	10.37	136	15087	0.40	ng	0.00
13) Acenaphthene-d10	14.24	164	25370	0.40	ng	0.00
19) Phenanthrene-d10	16.97	188	24842	0.40	ng	0.00
27) Chrysene-d12	21.17	240	25815	0.40	ng	-0.01
34) Perylene-d12	23.35	264	23599	0.40	ng	-0.01

System Monitoring Compounds						
4) 2-Fluorophenol	5.25	112	2201	0.27	ng	0.00
5) Phenol-d6	6.79	99	1296	0.12	ng	0.00
8) Nitrobenzene-d5	8.73	82	8299	0.79	ng	-0.01
11) 2-Methylnaphthalene-d10	11.96	152	10656	0.43	ng	0.00
14) 2,4,6-Tribromophenol	15.72	330	2943	0.25	ng	0.00
15) 2-Fluorobiphenyl	12.84	172	28377	0.31	ng	0.00
25) Fluoranthene-d10	19.01	212	29759	0.40	ng	0.00
29) Terphenyl-d14	19.62	244	36304	0.61	ng	0.00

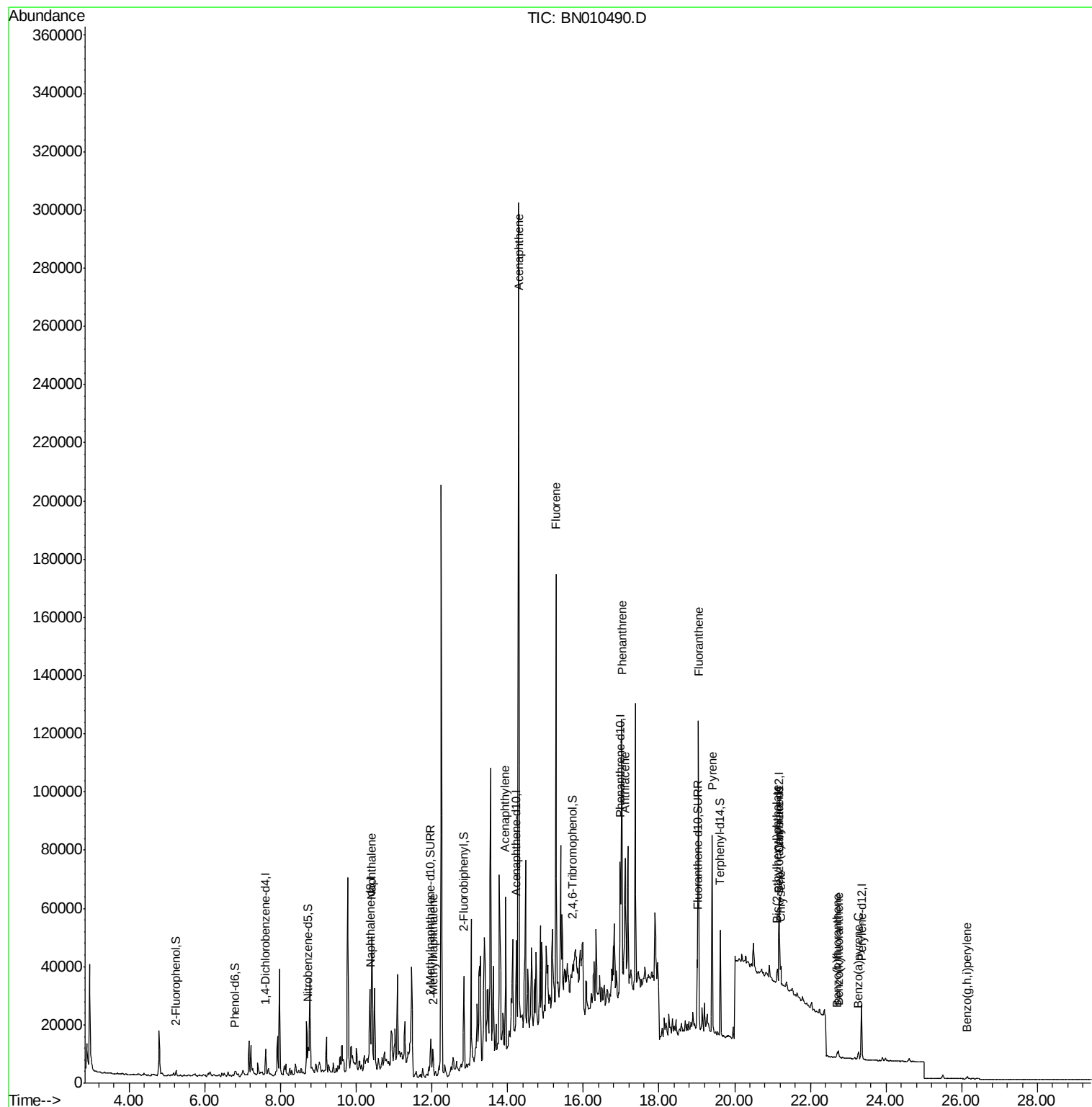
Target Compounds				Qvalue		
9) Naphthalene	10.41	128	54942	1.466	ng	95
12) 2-Methylnaphthalene	12.03	142	5648	0.210	ng	# 62
16) Acenaphthylene	13.95	152	7589	0.069	ng	# 1
17) Acenaphthene	14.29	154	142287	2.020	ng	96
18) Fluorene	15.28	166	92759	1.006	ng	# 94
23) Phenanthrene	17.02	178	91091	1.358	ng	96
24) Anthracene	17.10	178	37347	0.609	ng	# 81
26) Fluoranthene	19.04	202	94965	1.137	ng	100
28) Pyrene	19.41	202	61924	0.713	ng	# 94
30) Benzo(a)anthracene	21.16	228	6280	0.075	ng	# 55
31) Chrysene	21.22	228	6345	0.076	ng	# 54
32) Bis(2-ethylhexyl)phthalate	21.12	149	4349	0.101	ng	# 92
35) Benzo(b)fluoranthene	22.71	252	2361	0.030	ng	# 6
36) Benzo(k)fluoranthene	22.75	252	1894	0.024	ng	# 1
37) Benzo(a)pyrene	23.25	252	2089	0.030	ng	# 1
39) Benzo(g,h,i)perylene	26.14	276	1487	0.023	ng	# 47

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

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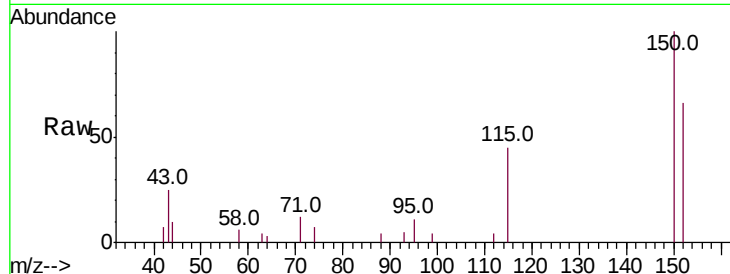


#1

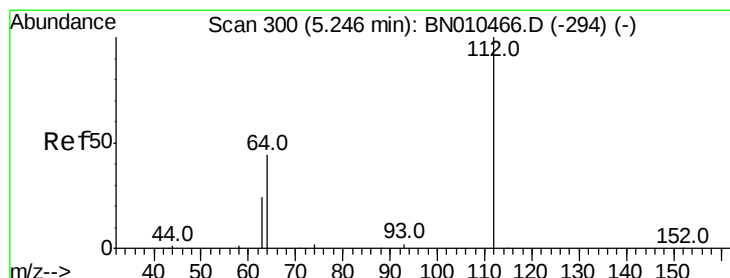
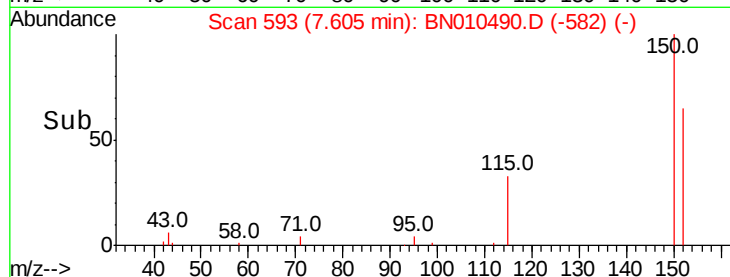
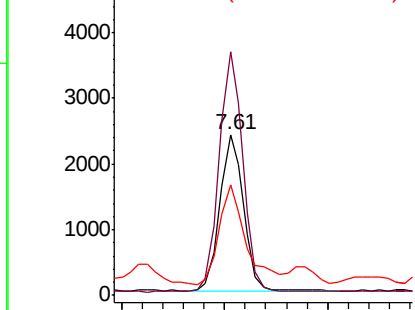
1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.61 min Scan# 593
 Delta R.T. -0.01 min
 Lab File: BN010490.D
 Acq: 14 Apr 2020 22:42

Instrument :
 BNA_N
 ClientSampleId :

Tot Ion:152 Resp: 3767
 Ion Ratio Lower Upper
 152 100
 150 151.4 121.8 182.6
 115 68.5 45.5 68.3#



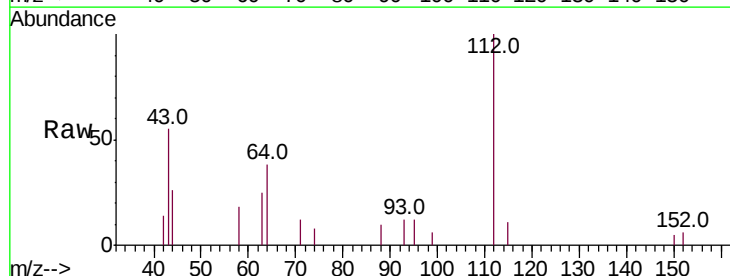
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



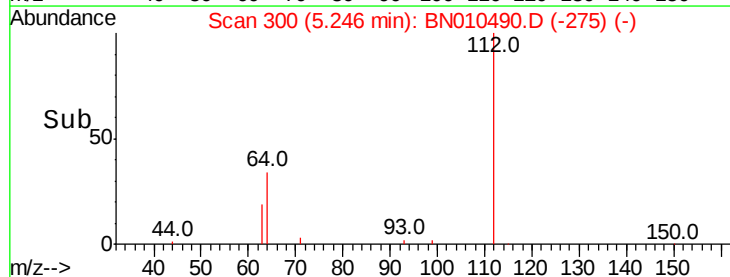
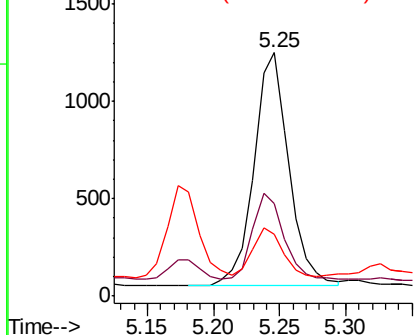
#4

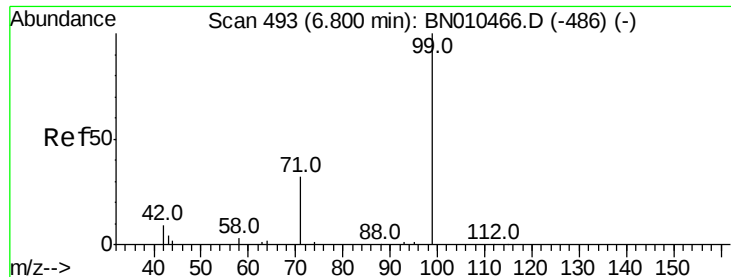
2-Fluorophenol
 Concen: 0.267 ng
 RT: 5.25 min Scan# 300
 Delta R.T. -0.00 min
 Lab File: BN010490.D
 Acq: 14 Apr 2020 22:42

Tgt Ion:112 Resp: 2201
 Ion Ratio Lower Upper
 112 100
 64 35.2 35.8 53.8#
 63 19.4 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: 0.120 ng

RT: 6.79 min Scan# 492

Delta R.T. -0.01 min

Lab File: BN010490.D

Acq: 14 Apr 2020 22:42

Instrument :

BNA_N

ClientSampled :

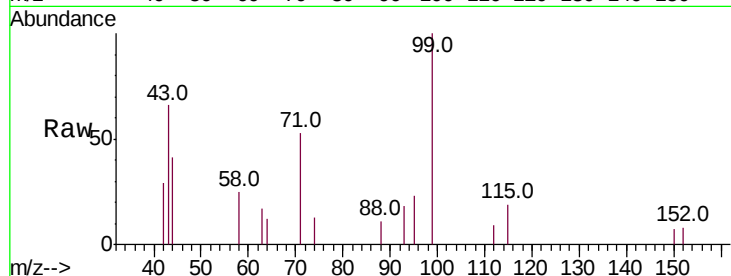
Tot Ion: 99 Resp: 1296

Ion Ratio Lower Upper

99 100

42 27.5 9.8 14.6#

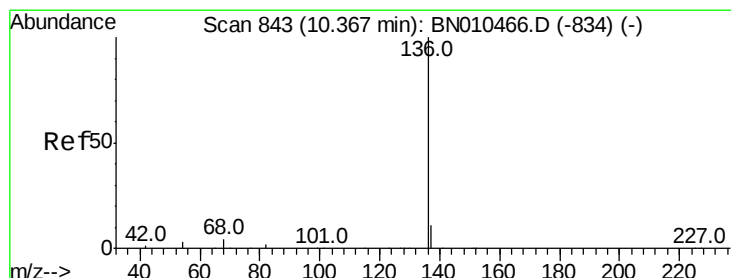
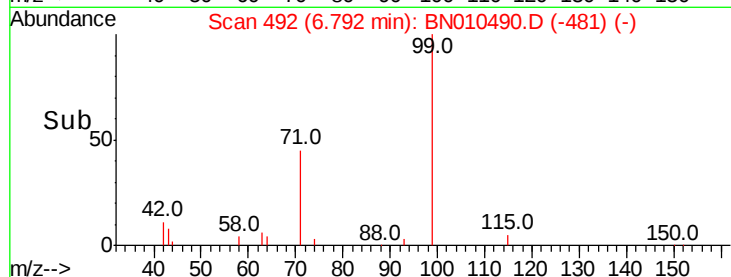
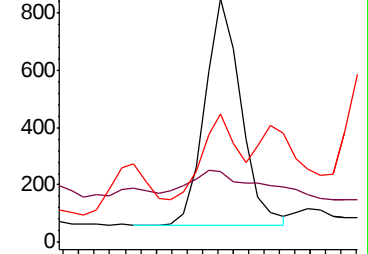
71 46.1 27.8 41.8#



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) (-)



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.37 min Scan# 843

Delta R.T. -0.00 min

Lab File: BN010490.D

Acq: 14 Apr 2020 22:42

Tgt Ion: 136 Resp: 15087

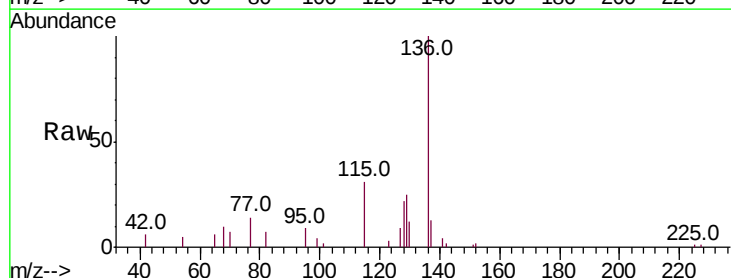
Ion Ratio Lower Upper

136 100

137 13.1 8.9 13.3

54 4.9 2.6 4.0#

68 10.4 3.4 5.2#

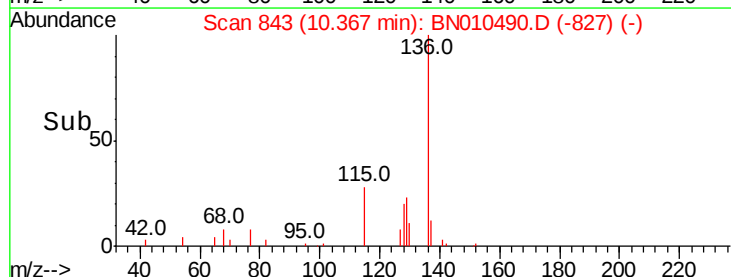
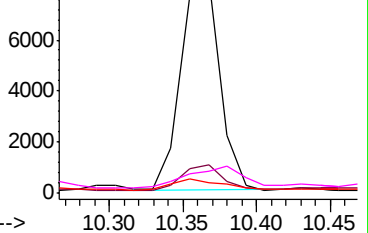


Abundance Ion 136.00 (135.70 to 136.70): BN010466.D (-834) (-)

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) (-)





#8

Nitrobenzene-d5

Concen: 0.787 ng

RT: 8.73 min Scan# 714

Delta R.T. -0.01 min

Lab File: BN010490.D

Acq: 14 Apr 2020 22:42

Instrument :

BNA_N

ClientSampleId :

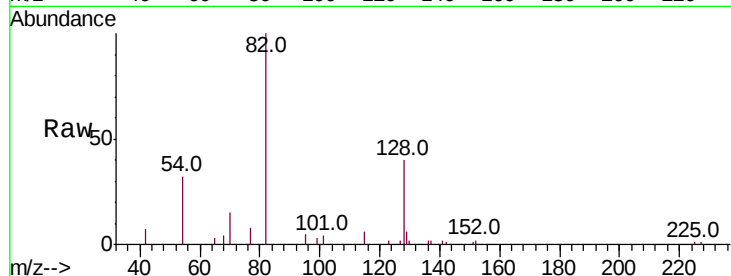
Tot Ion: 82 Resp: 8299

Ion Ratio Lower Upper

82 100

128 40.0 41.3 61.9#

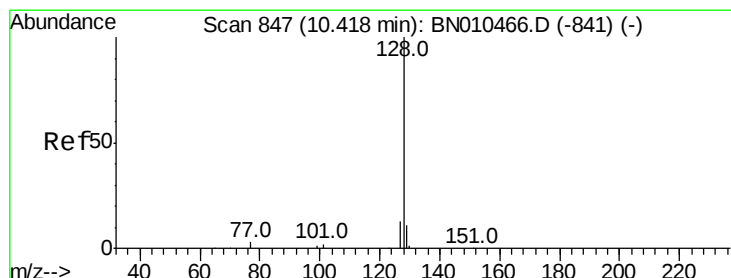
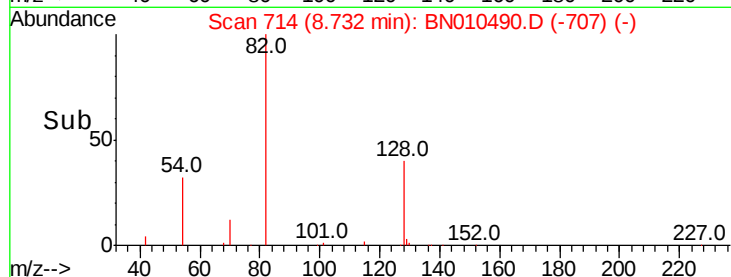
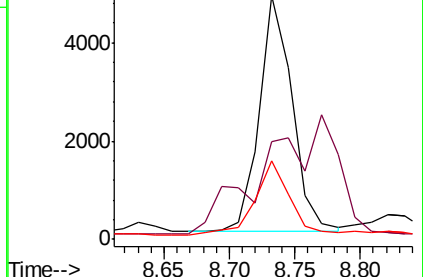
54 32.5 23.4 35.0



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: 1.466 ng

RT: 10.41 min Scan# 846

Delta R.T. -0.01 min

Lab File: BN010490.D

Acq: 14 Apr 2020 22:42

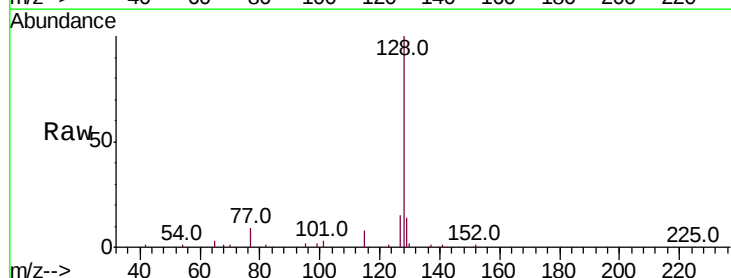
Tgt Ion: 128 Resp: 54942

Ion Ratio Lower Upper

128 100

129 13.5 9.3 13.9

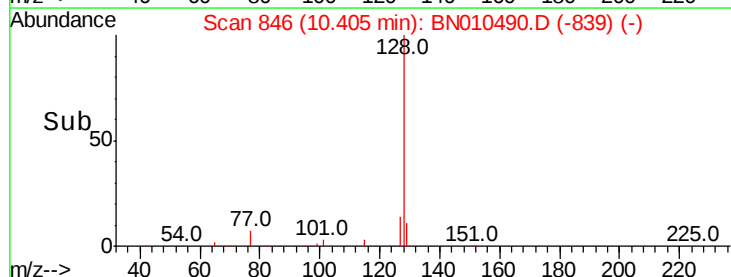
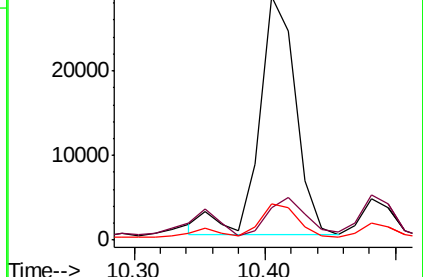
127 14.8 10.5 15.7

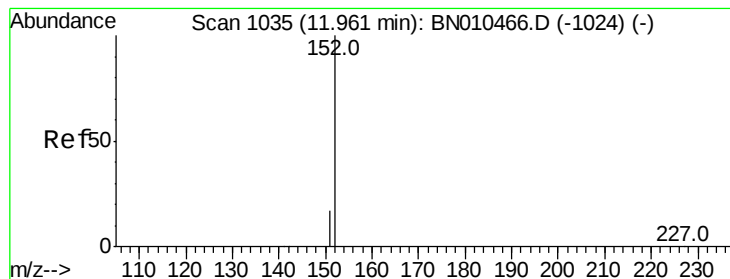


Abundance Ion 128.00 (127.70 to 128.70): BN010466.D (-841) (-)

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: 0.430 ng

RT: 11.96 min Scan# 1034

Delta R.T. -0.00 min

Lab File: BN010490.D

Acq: 14 Apr 2020 22:42

Instrument :

BNA_N

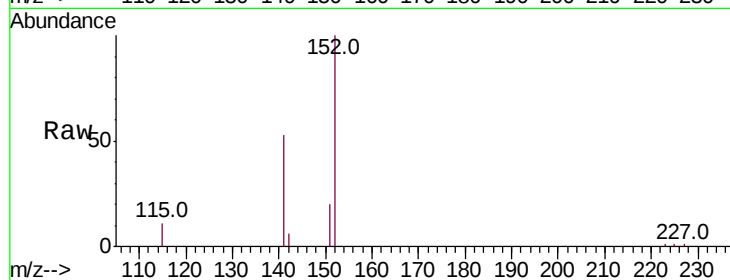
ClientSampleId :

Tot Ion:152 Resp: 10656

Ion Ratio Lower Upper

152 100

151 17.6 15.3 22.9



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

11.96

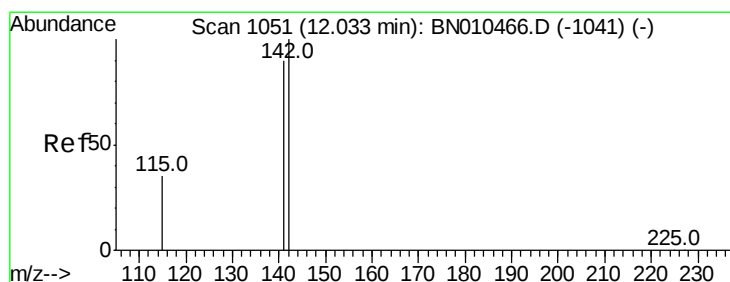
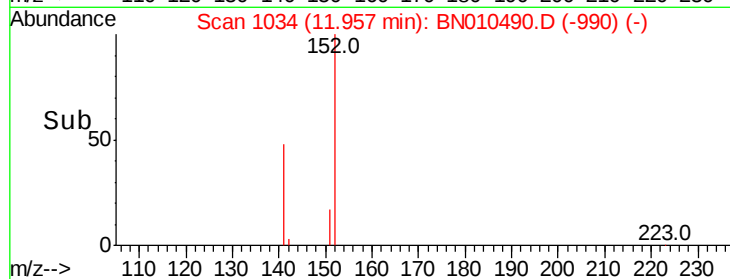
6000

4000

2000

0

Time--> 11.80 11.90 12.00



#12

2-Methylnaphthalene

Concen: 0.210 ng

RT: 12.03 min Scan# 1050

Delta R.T. -0.00 min

Lab File: BN010490.D

Acq: 14 Apr 2020 22:42

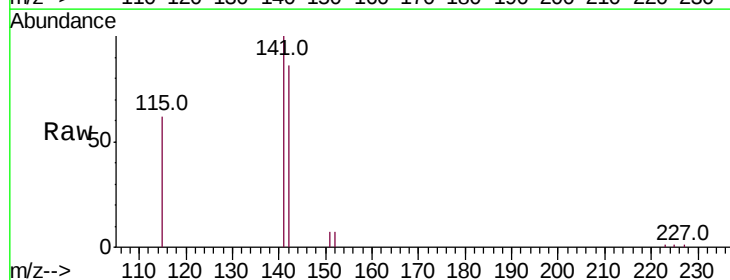
Tgt Ion:142 Resp: 5648

Ion Ratio Lower Upper

142 100

141 116.8 71.9 107.9#

115 72.9 28.8 43.2#



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E

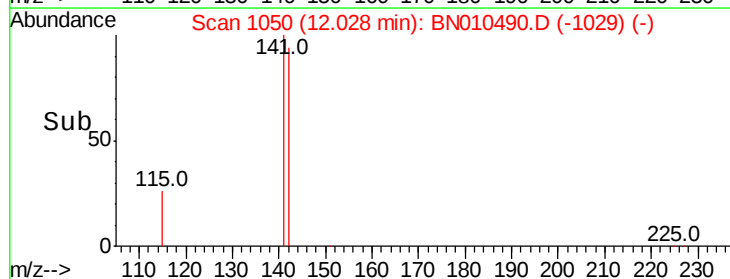
10000

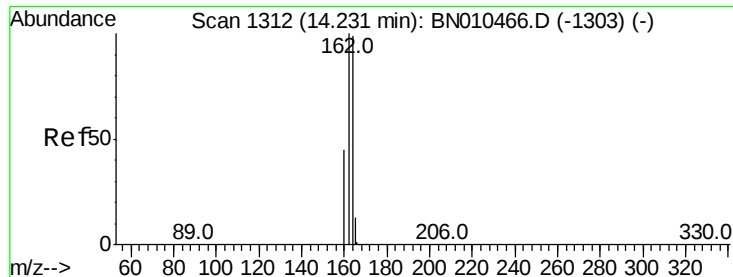
5000

12.03

0

Time--> 12.00 12.05





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.24 min Scan# 1313

Delta R.T. 0.00 min

Lab File: BN010490.D

Acq: 14 Apr 2020 22:42

Instrument :

BNA_N

ClientSampleId :

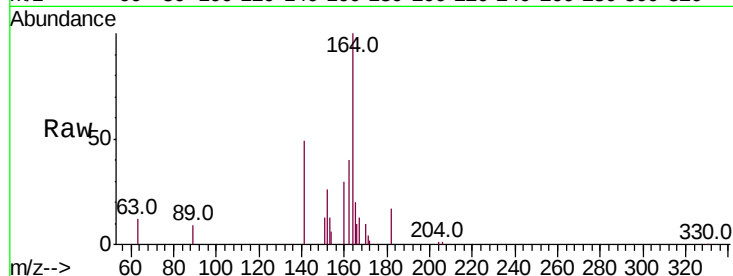
Tot Ion:164 Resp: 25370

Ion Ratio Lower Upper

164 100

162 39.8 80.6 121.0#

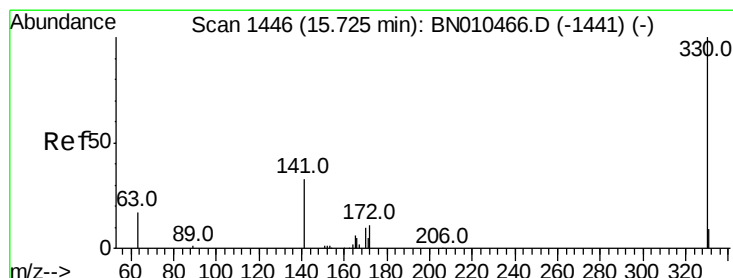
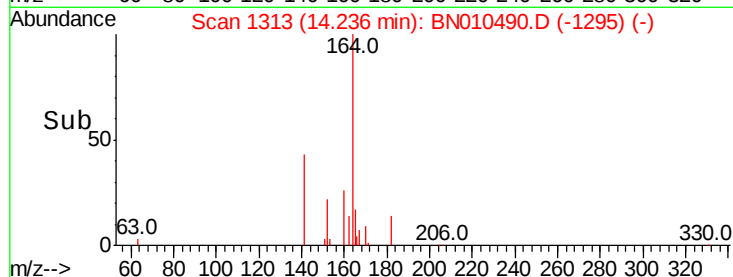
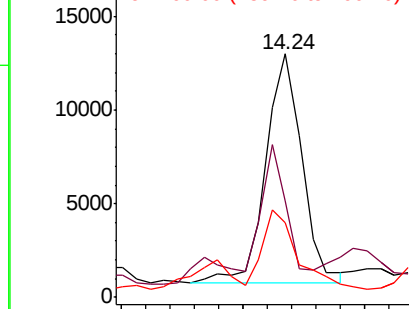
160 30.4 36.5 54.7#



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: 0.246 ng

RT: 15.72 min Scan# 1446

Delta R.T. -0.01 min

Lab File: BN010490.D

Acq: 14 Apr 2020 22:42

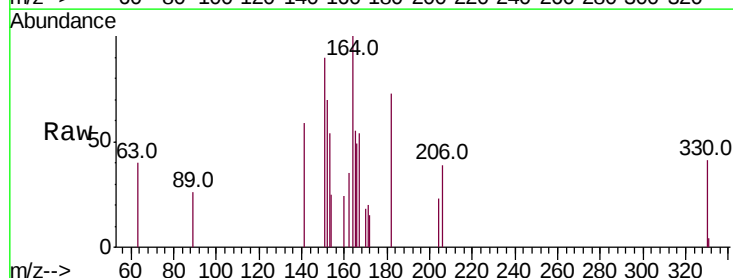
Tgt Ion:330 Resp: 2943

Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

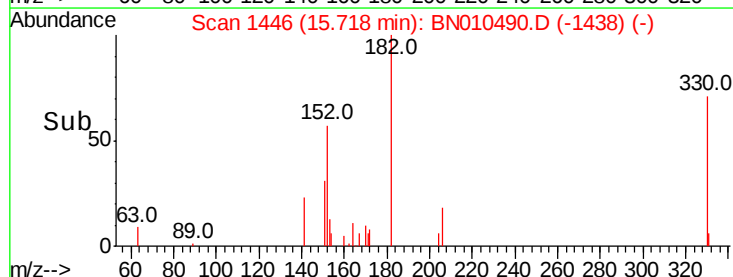
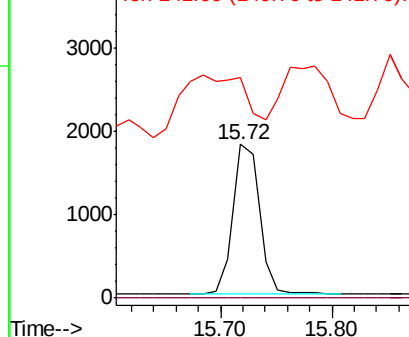
141 0.0 28.1 42.1#

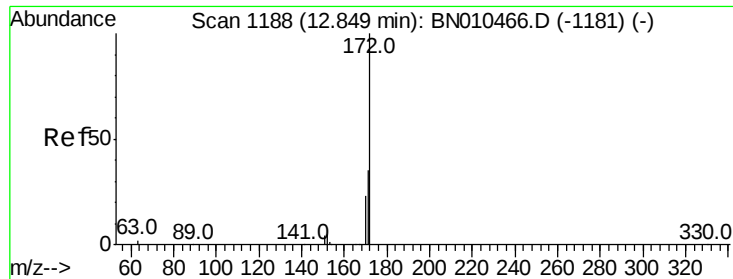


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

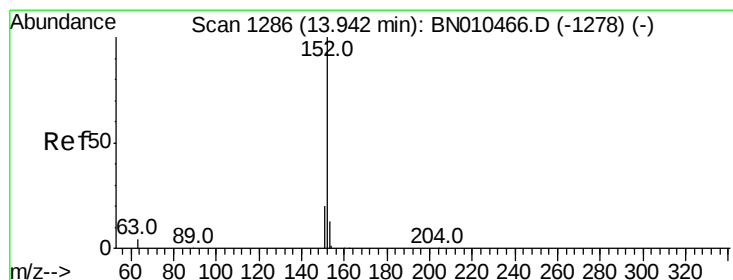
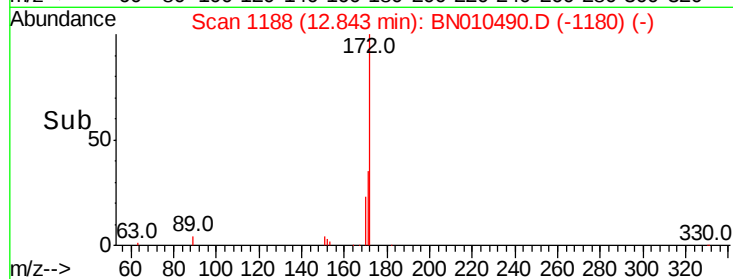
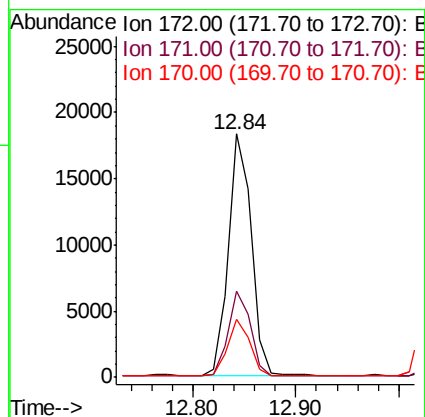
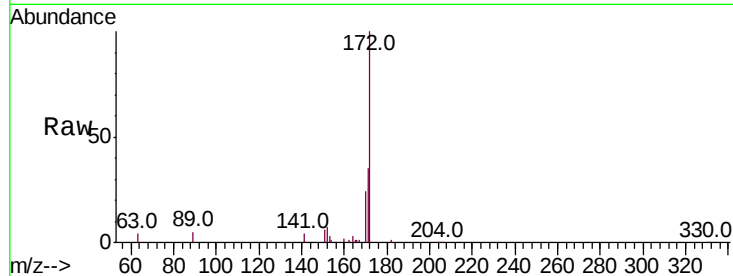




#15
2-Fluorobiphenyl
Concen: 0.307 ng
RT: 12.84 min Scan# 1188
Delta R.T. -0.01 min
Lab File: BN010490.D
Acq: 14 Apr 2020 22:42

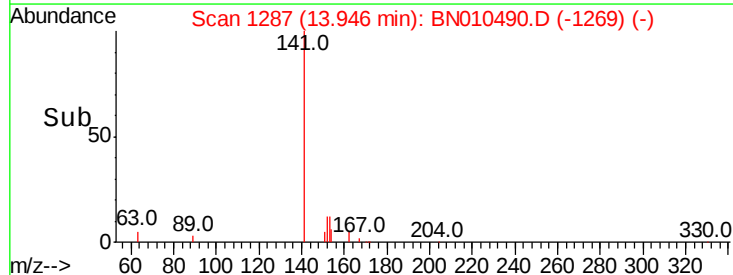
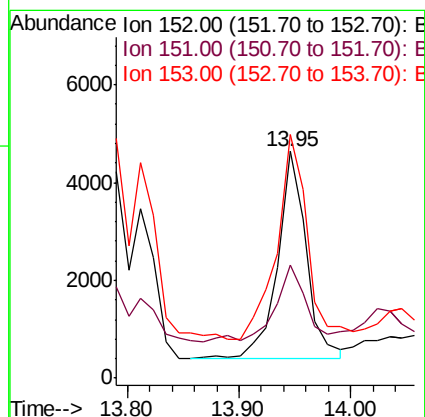
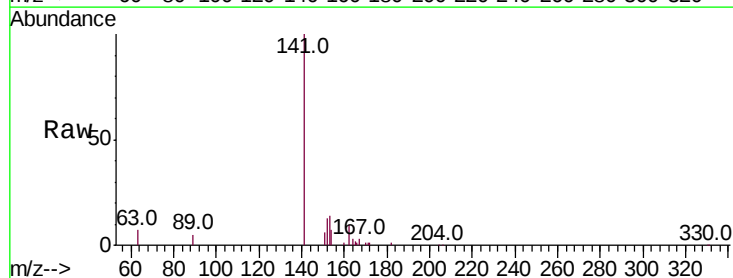
Instrument :
BNA_N
ClientSampleId :

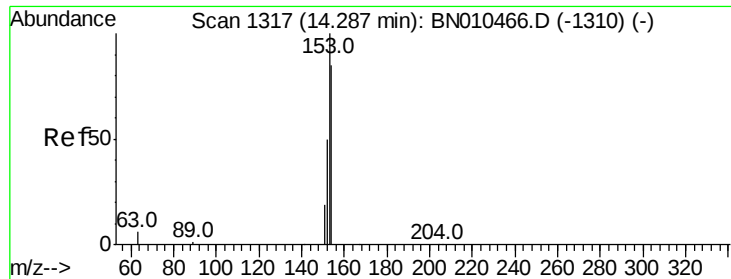
Tot Ion:172 Resp: 28377
Ion Ratio Lower Upper
172 100
171 35.4 28.2 42.2
170 23.9 18.4 27.6



#16
Acenaphthylene
Concen: 0.069 ng
RT: 13.95 min Scan# 1287
Delta R.T. 0.00 min
Lab File: BN010490.D
Acq: 14 Apr 2020 22:42

Tgt Ion:152 Resp: 7589
Ion Ratio Lower Upper
152 100
151 40.0 15.7 23.5#
153 104.7 10.6 15.8#





#17

Acenaphthene

Concen: 2.020 ng

RT: 14.29 min Scan# 1318

Delta R.T. 0.00 min

Lab File: BN010490.D

Acq: 14 Apr 2020 22:42

Instrument :

BNA_N

ClientSampleId :

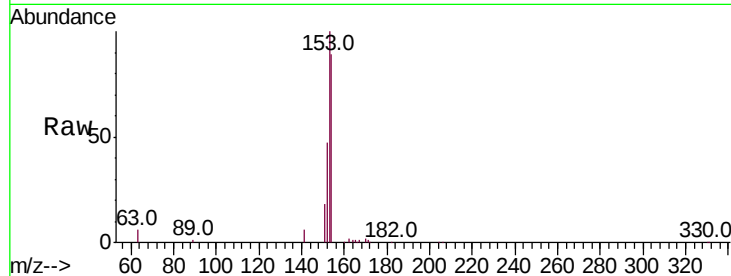
Tot Ion:154 Resp: 142287

Ion Ratio Lower Upper

154 100

153 110.7 91.0 136.4

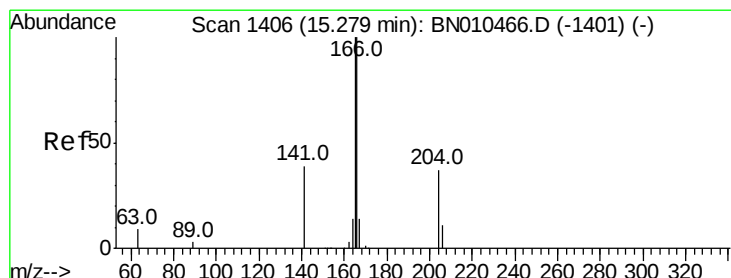
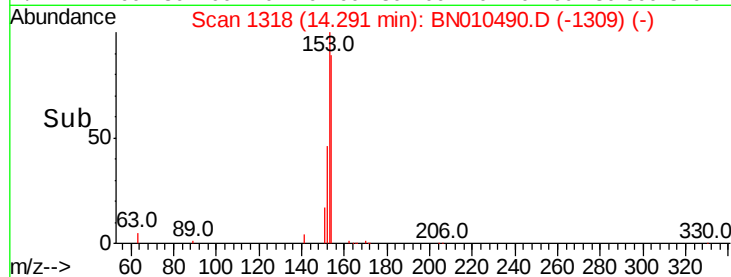
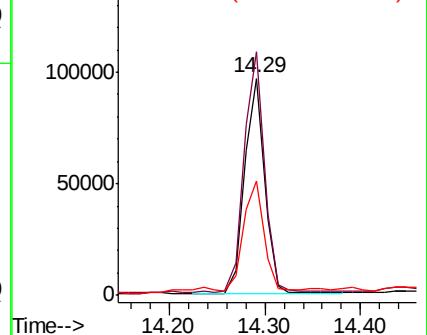
152 50.6 44.6 67.0



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: 1.006 ng

RT: 15.28 min Scan# 1407

Delta R.T. 0.00 min

Lab File: BN010490.D

Acq: 14 Apr 2020 22:42

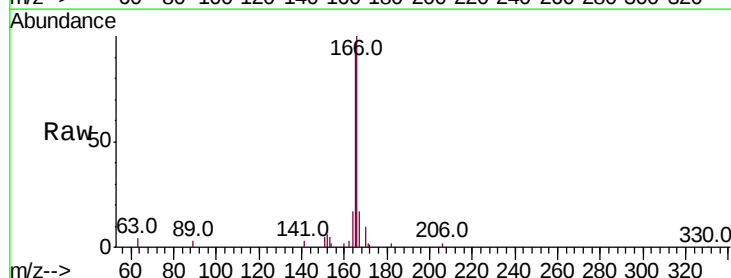
Tgt Ion:166 Resp: 92759

Ion Ratio Lower Upper

166 100

165 93.1 78.4 117.6

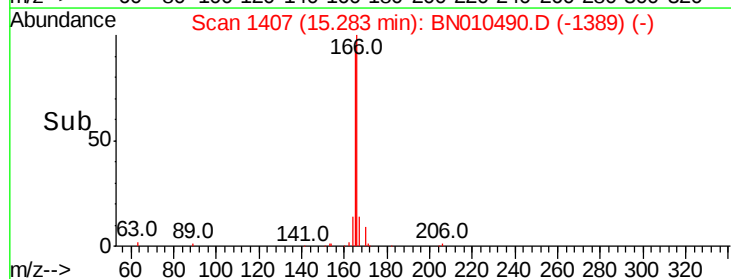
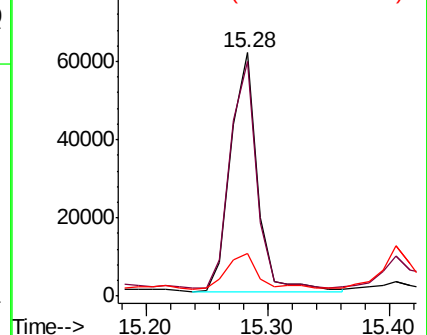
167 17.7 10.9 16.3#

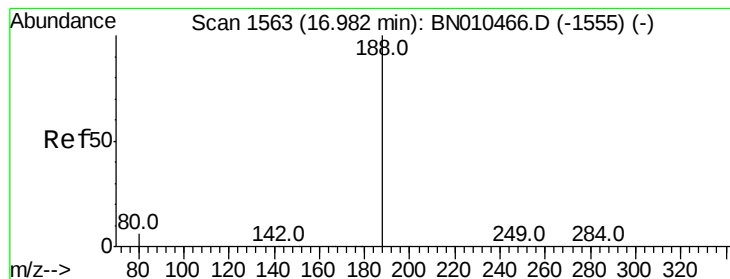


Abundance Ion 166.00 (165.70 to 166.70): E

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: BN010490.D

Acq: 14 Apr 2020 22:42

Instrument :

BNA_N

ClientSampleId :

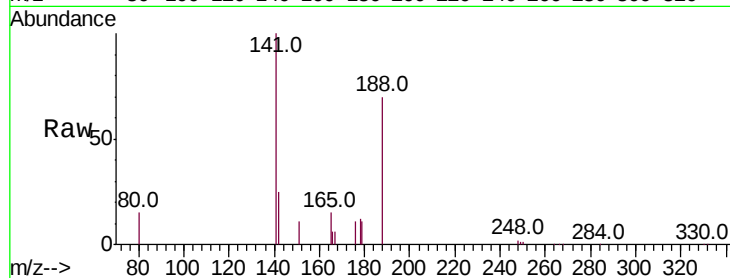
Tot Ion:188 Resp: 24842

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

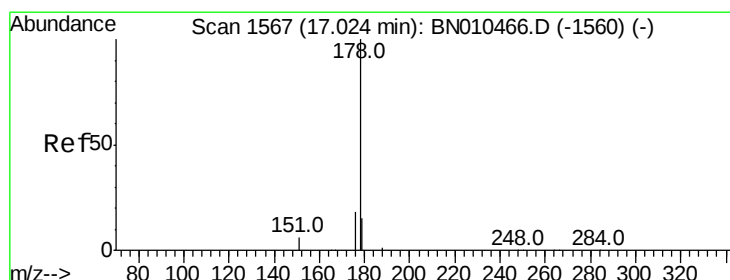
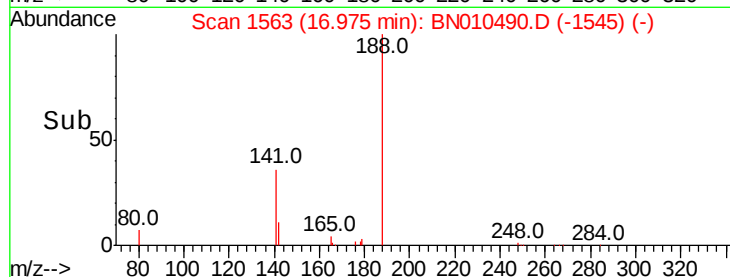
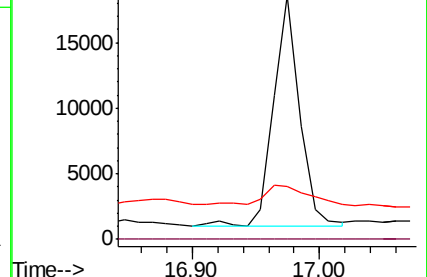
80 21.9 5.0 7.6#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BNC

Ion 80.00 (79.70 to 80.70): BNC



#23

Phenanthrene

Concen: 1.358 ng

RT: 17.02 min Scan# 1567

Delta R.T. -0.01 min

Lab File: BN010490.D

Acq: 14 Apr 2020 22:42

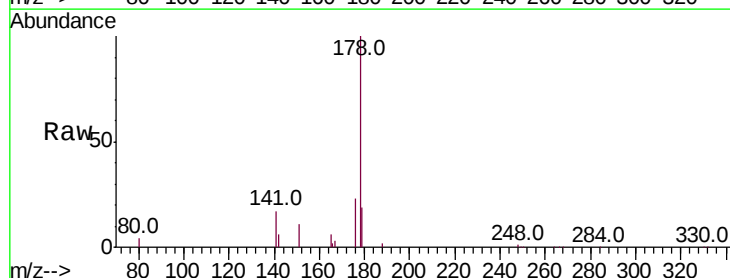
Tgt Ion:178 Resp: 91091

Ion Ratio Lower Upper

178 100

176 20.5 15.0 22.4

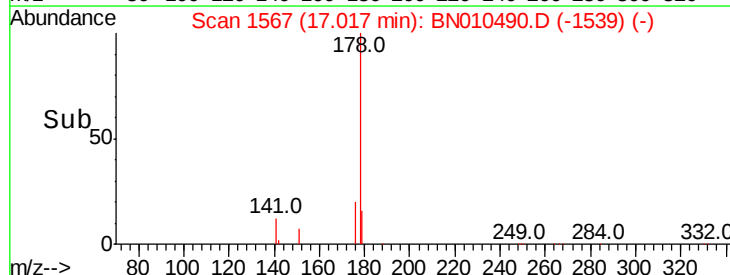
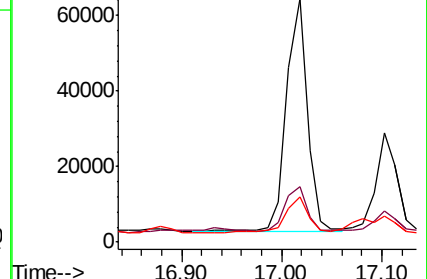
179 17.5 12.6 18.8

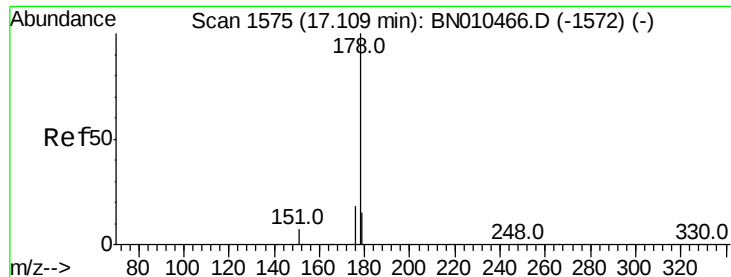


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#24

Anthracene

Concen: 0.609 ng

RT: 17.10 min Scan# 1575

Delta R.T. -0.01 min

Lab File: BN010490.D

Acq: 14 Apr 2020 22:42

Instrument :

BNA_N

ClientSampleId :

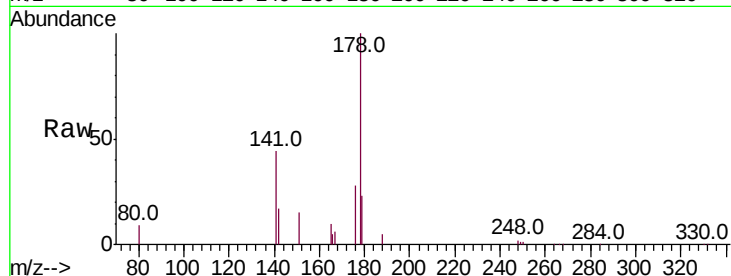
Tot Ion:178 Resp: 37347

Ion Ratio Lower Upper

178 100

176 22.5 14.6 21.8#

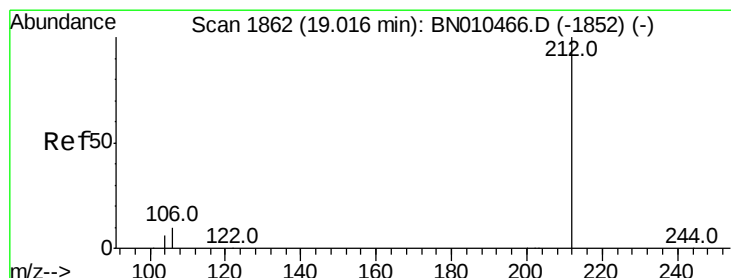
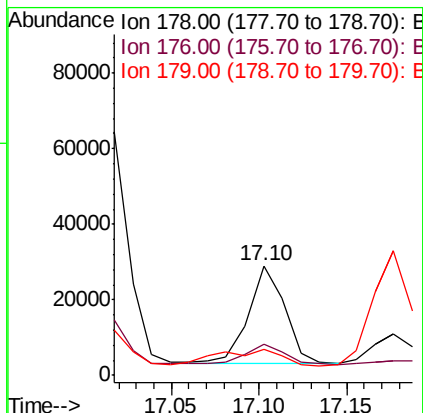
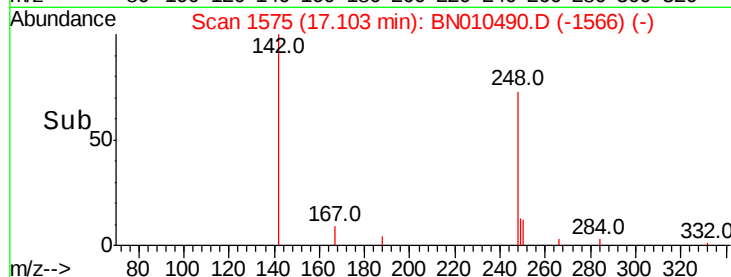
179 28.1 12.2 18.2#



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: 0.395 ng

RT: 19.01 min Scan# 1863

Delta R.T. -0.00 min

Lab File: BN010490.D

Acq: 14 Apr 2020 22:42

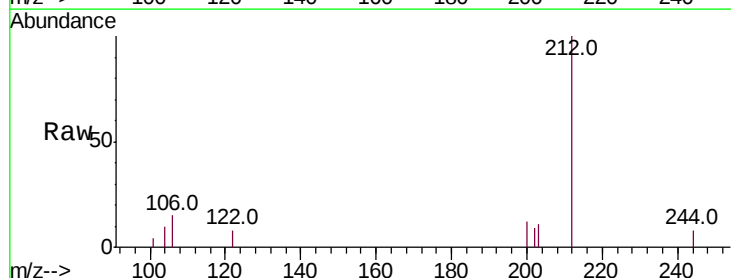
Tgt Ion:212 Resp: 29759

Ion Ratio Lower Upper

212 100

106 10.3 7.8 11.6

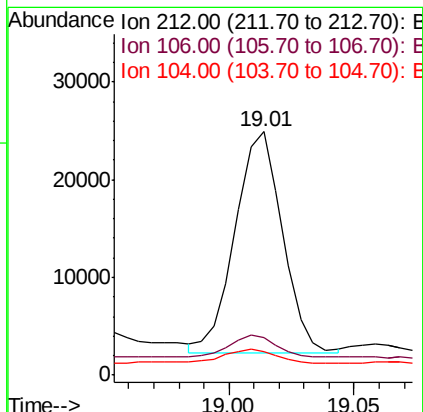
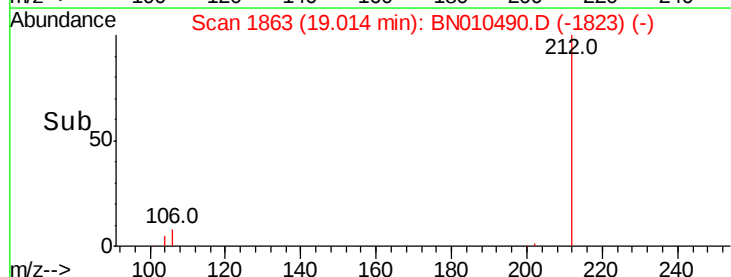
104 7.6 4.5 6.7#

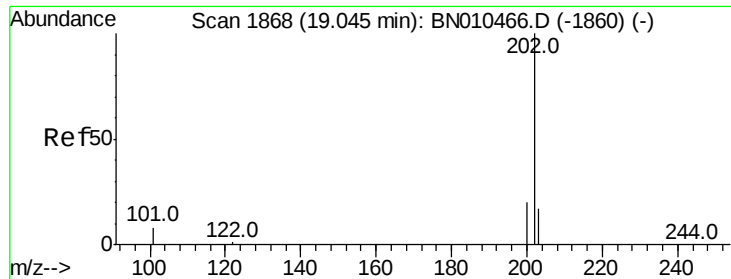


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E

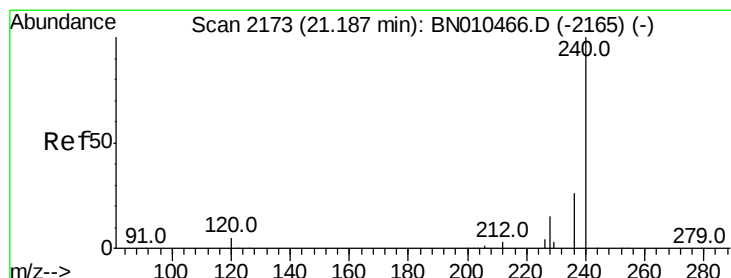
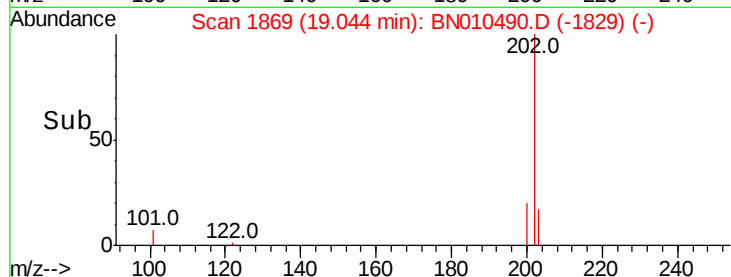
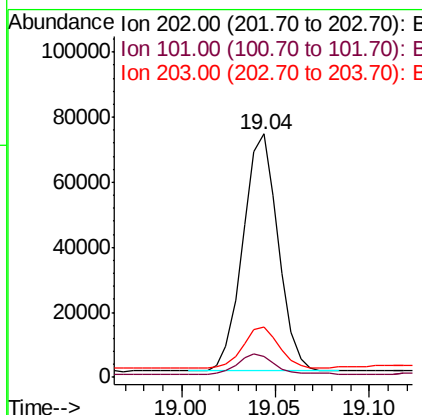
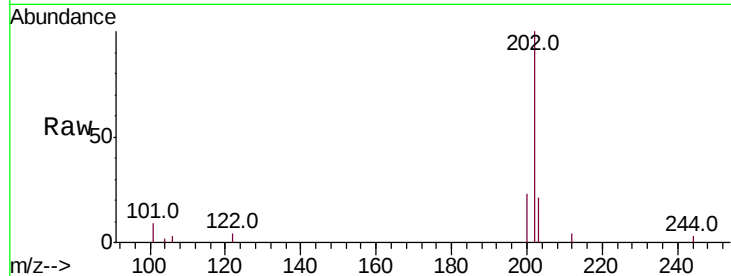




#26
 Fluoranthene
 Concen: 1.137 ng
 RT: 19.04 min Scan# 1869
 Delta R.T. -0.00 min
 Lab File: BN010490.D
 Acq: 14 Apr 2020 22:42

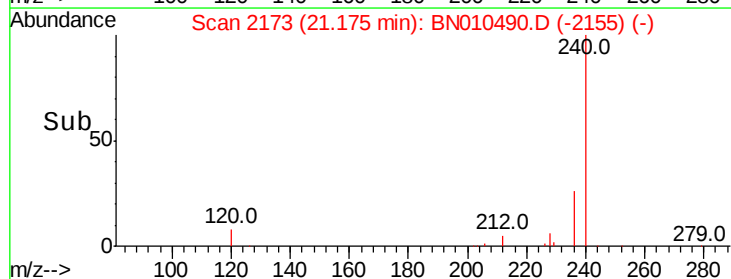
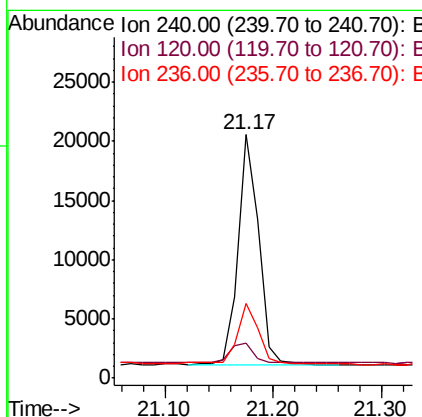
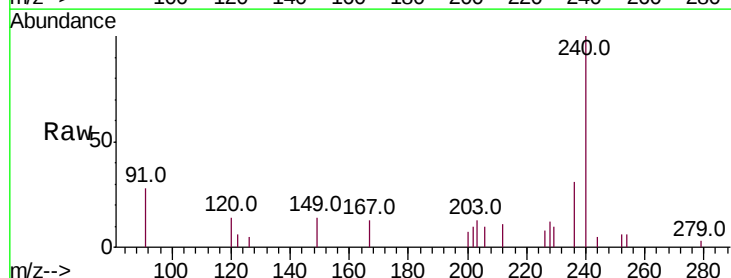
Instrument :
 BNA_N
 ClientSampleId :

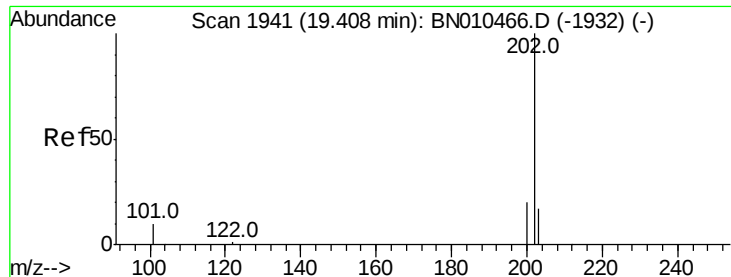
Tot Ion:202 Resp: 94965
 Ion Ratio Lower Upper
 202 100
 101 8.6 6.9 10.3
 203 17.4 13.9 20.9



#27
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.17 min Scan# 2173
 Delta R.T. -0.01 min
 Lab File: BN010490.D
 Acq: 14 Apr 2020 22:42

Tgt Ion:240 Resp: 25815
 Ion Ratio Lower Upper
 240 100
 120 14.2 4.8 7.2#
 236 30.6 21.4 32.0

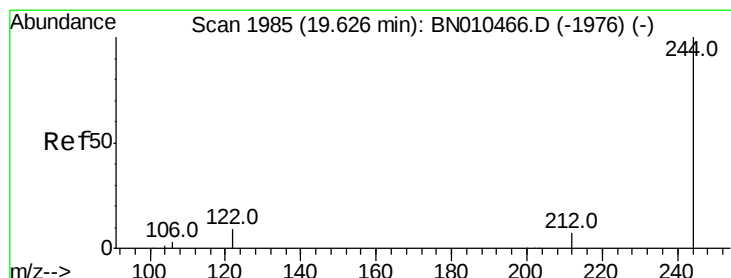
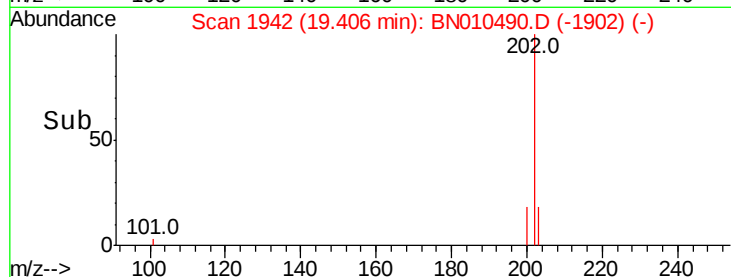
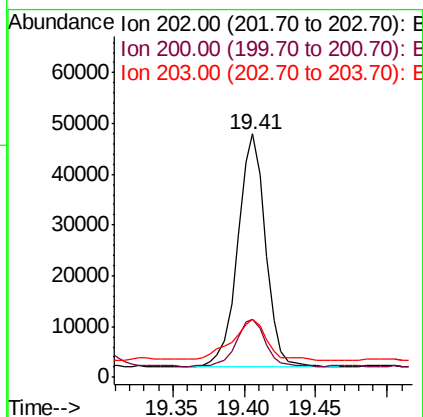
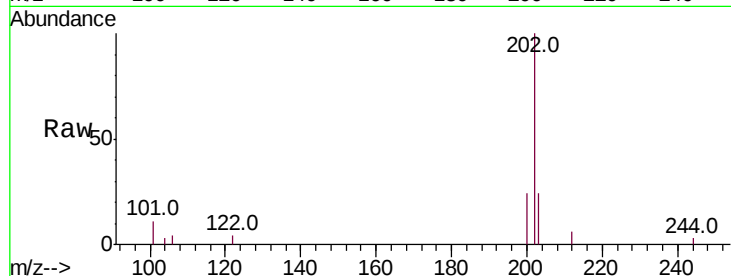




#28
Pvrene
Concen: 0.713 ng
RT: 19.41 min Scan# 1942
Delta R.T. -0.00 min
Lab File: BN010490.D
Acq: 14 Apr 2020 22:42

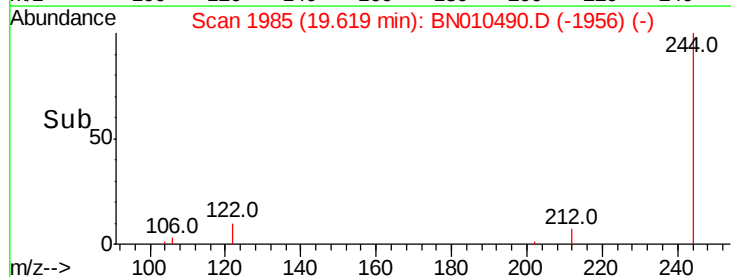
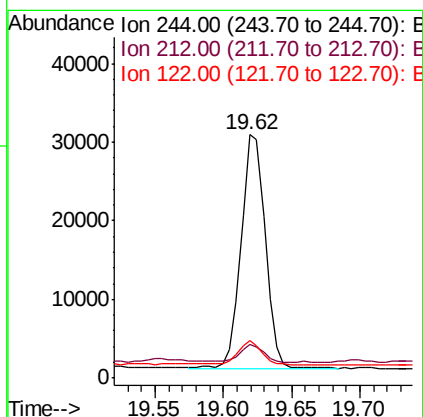
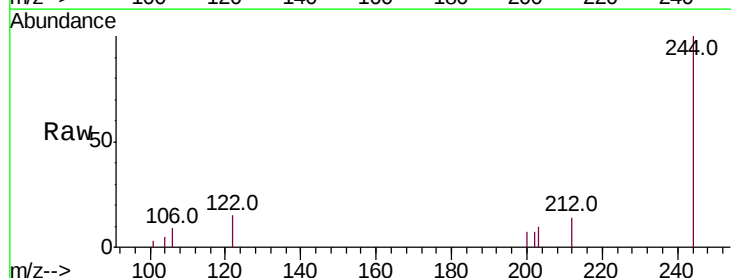
Instrument :
BNA_N
ClientSampleId :

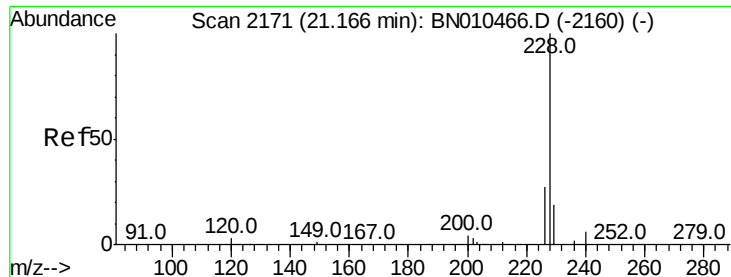
Tot Ion:202 Resp: 61924
Ion Ratio Lower Upper
202 100
200 21.2 16.3 24.5
203 22.5 14.0 21.0#



#29
Terphenyl-d14
Concen: 0.614 ng
RT: 19.62 min Scan# 1985
Delta R.T. -0.01 min
Lab File: BN010490.D
Acq: 14 Apr 2020 22:42

Tgt Ion:244 Resp: 36304
Ion Ratio Lower Upper
244 100
212 13.6 6.2 9.4#
122 15.3 7.8 11.8#





#30

Benzo(a)anthracene

Concen: 0.075 ng

RT: 21.16 min Scan# 2172

Delta R.T. -0.00 min

Lab File: BN010490.D

Acq: 14 Apr 2020 22:42

Instrument :

BNA_N

ClientSampleId :

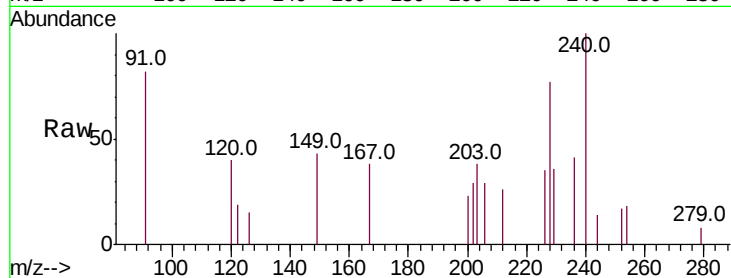
Tot Ion:228 Resp: 6280

Ion Ratio Lower Upper

228 100

226 44.7 21.7 32.5#

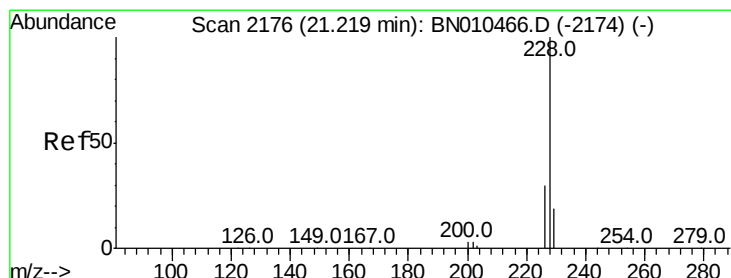
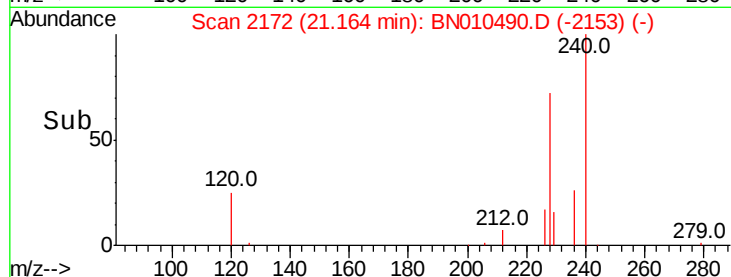
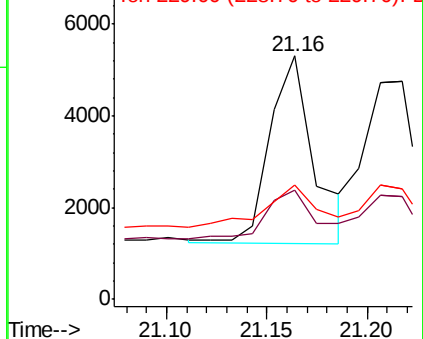
229 46.7 15.6 23.4#



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: 0.076 ng

RT: 21.22 min Scan# 2177

Delta R.T. -0.00 min

Lab File: BN010490.D

Acq: 14 Apr 2020 22:42

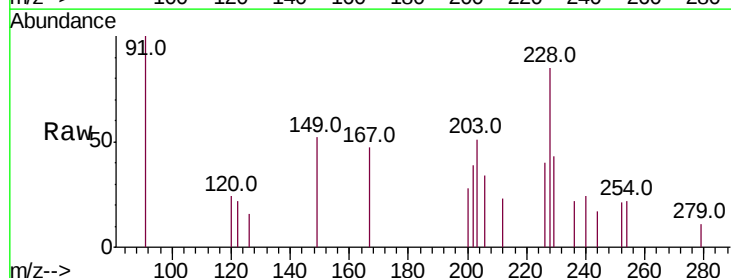
Tgt Ion:228 Resp: 6345

Ion Ratio Lower Upper

228 100

226 47.0 24.0 36.0#

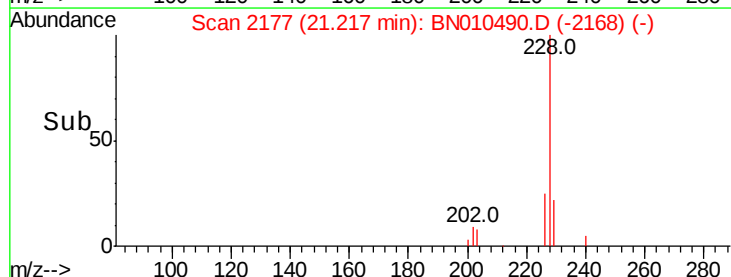
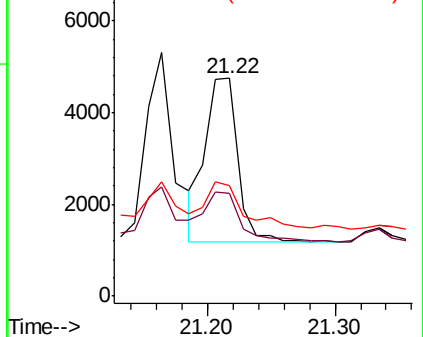
229 51.0 15.8 23.6#

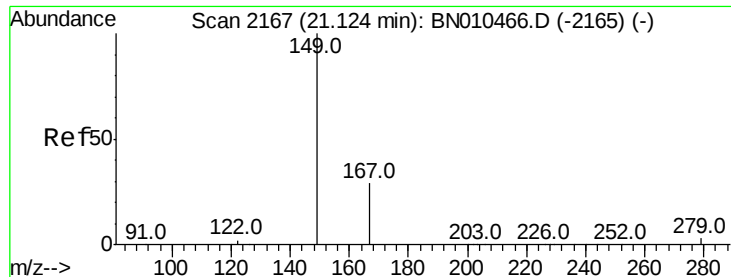


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#32

Bis(2-ethylhexyl)phthalate

Concen: 0.101 ng

RT: 21.12 min Scan# 2168

Delta R.T. -0.00 min

Lab File: BN010490.D

Acq: 14 Apr 2020 22:42

Instrument :

BNA_N

ClientSampleId :

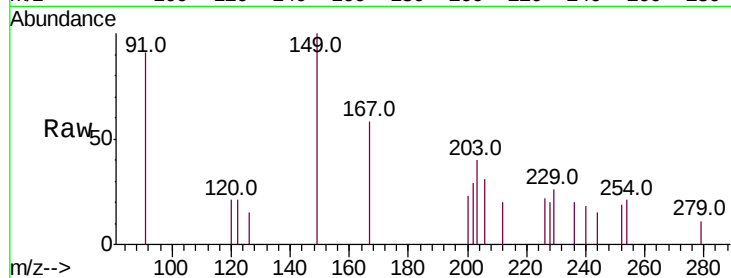
Tot Ion:149 Resp: 4349

Ion Ratio Lower Upper

149 100

167 33.5 23.4 35.0

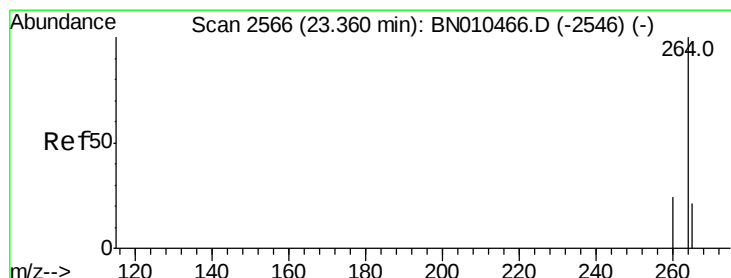
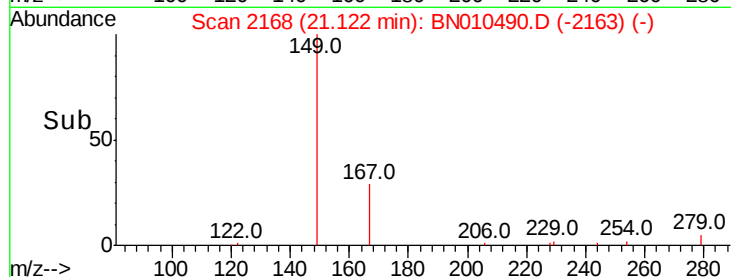
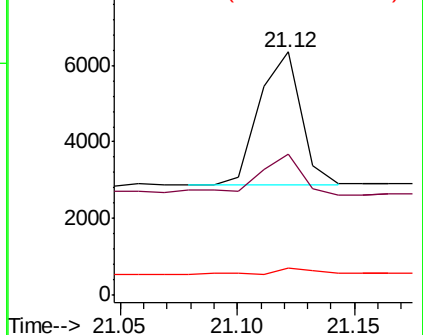
279 7.3 4.0 6.0#



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



#34

Perylene-d12

Concen: 0.400 ng

RT: 23.35 min Scan# 2564

Delta R.T. -0.01 min

Lab File: BN010490.D

Acq: 14 Apr 2020 22:42

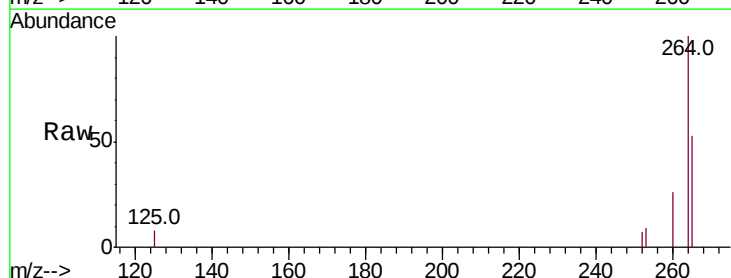
Tgt Ion:264 Resp: 23599

Ion Ratio Lower Upper

264 100

260 25.7 19.8 29.8

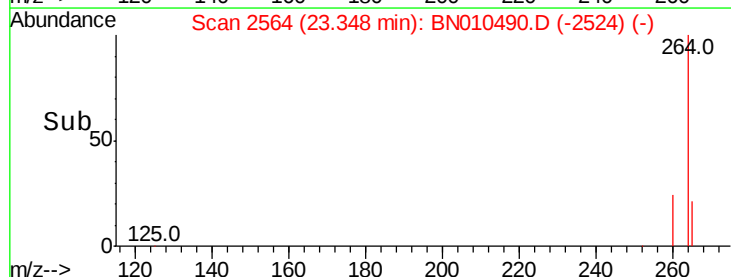
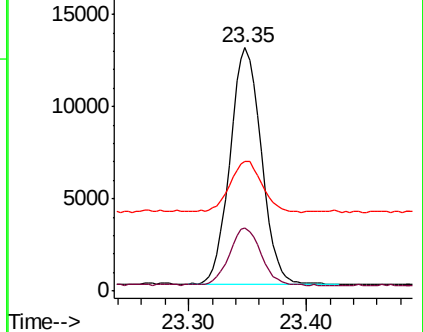
265 53.1 42.3 63.5

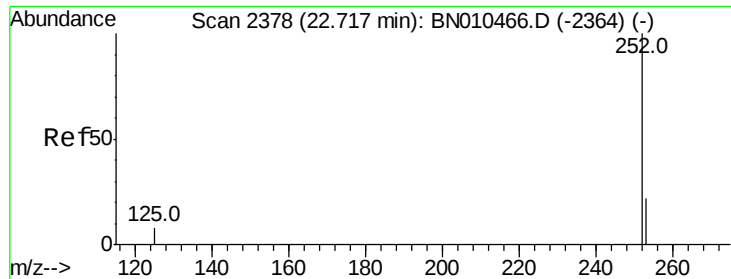


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#35

Benzo(b)fluoranthene

Concen: 0.030 ng

RT: 22.71 min Scan# 2377

Delta R.T. -0.01 min

Lab File: BN010490.D

Acq: 14 Apr 2020 22:42

Instrument :

BNA_N

ClientSampleId :

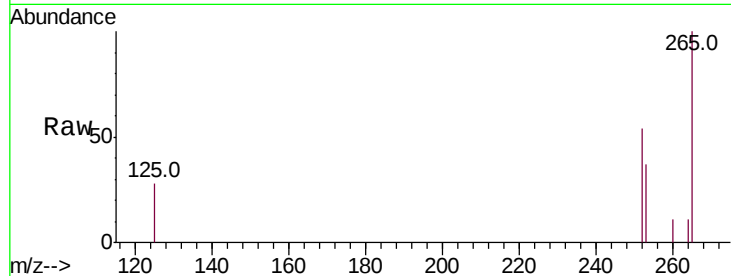
Tot Ion:252 Resp: 2361

Ion Ratio Lower Upper

252 100

253 69.8 20.2 30.4#

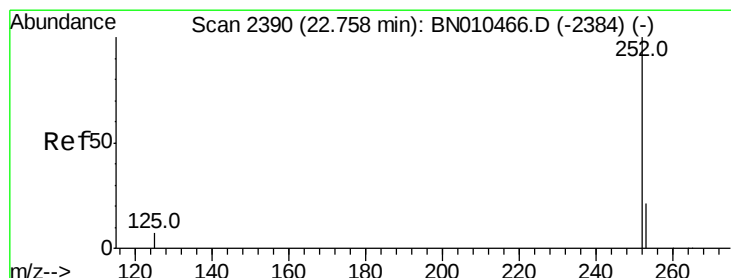
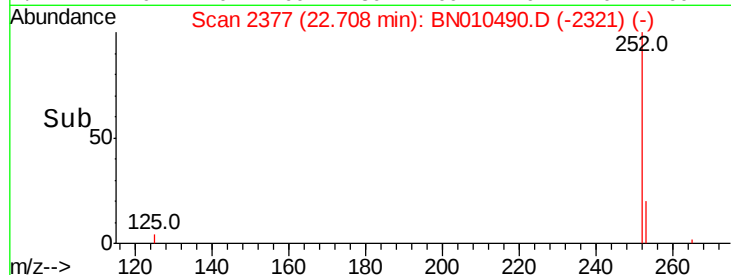
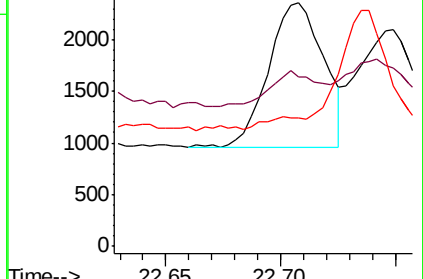
125 52.7 9.2 13.8#



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: 0.024 ng

RT: 22.75 min Scan# 2389

Delta R.T. -0.01 min

Lab File: BN010490.D

Acq: 14 Apr 2020 22:42

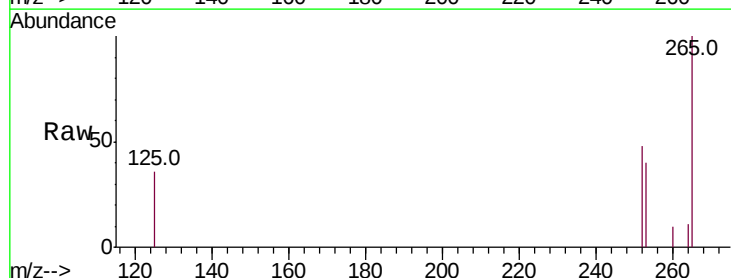
Tgt Ion:252 Resp: 1894

Ion Ratio Lower Upper

252 100

253 82.1 20.1 30.1#

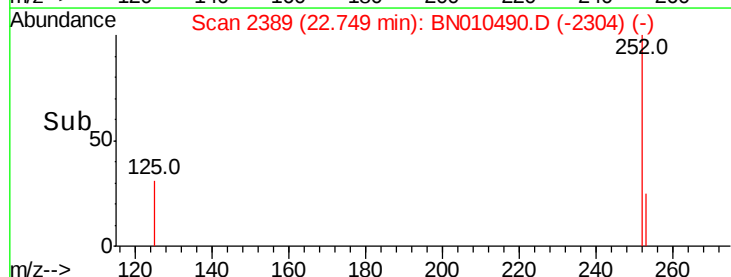
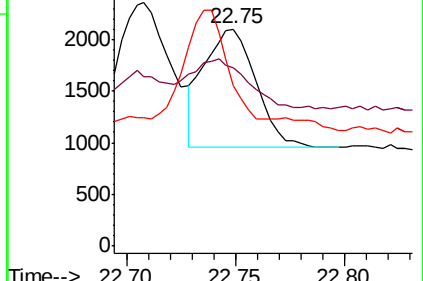
125 74.0 9.6 14.4#

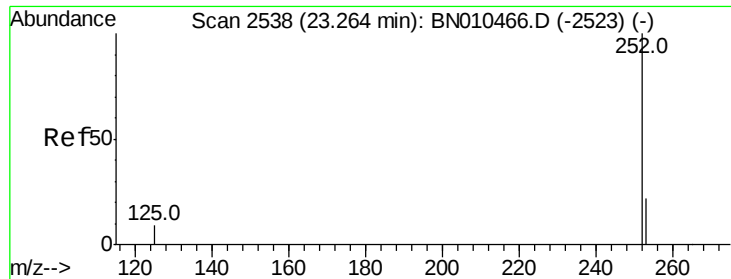


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#37

Benzo(a)pyrene

Concen: 0.030 ng

RT: 23.25 min Scan# 2536

Delta R.T. -0.01 min

Lab File: BN010490.D

Acq: 14 Apr 2020 22:42

Instrument :

BNA_N

ClientSampleId :

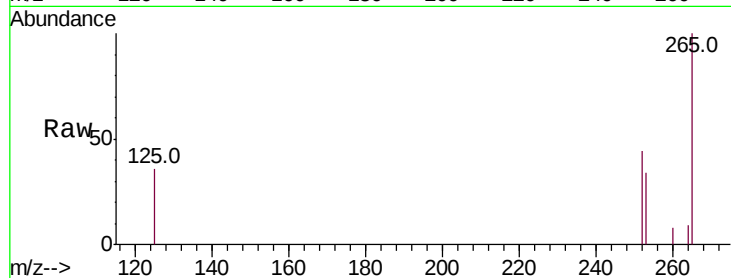
Tot Ion:252 Resp: 2089

Ion Ratio Lower Upper

252 100

253 75.7 21.8 32.8#

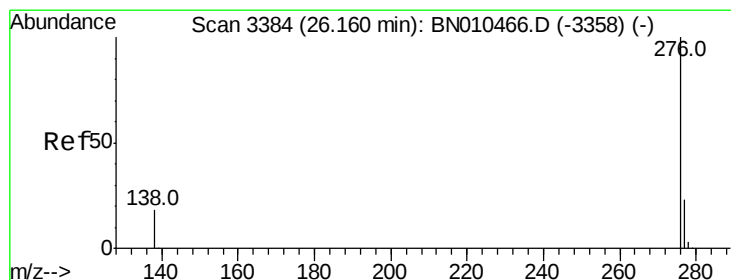
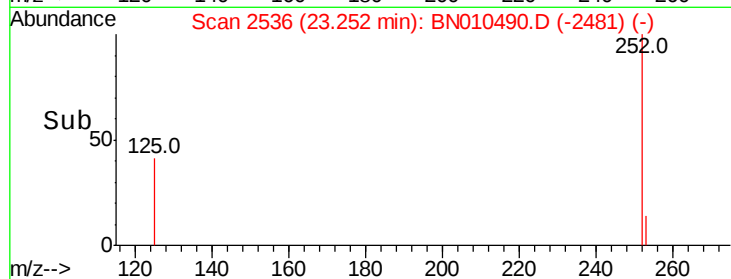
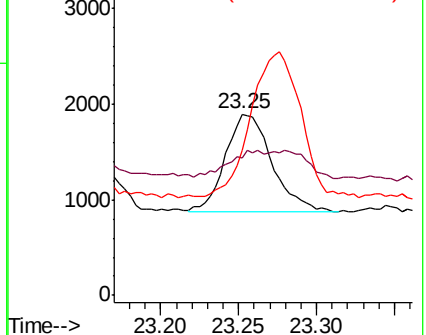
125 80.4 11.0 16.6#



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



#39

Benzo(g,h,i)perylene

Concen: 0.023 ng

RT: 26.14 min Scan# 3381

Delta R.T. -0.02 min

Lab File: BN010490.D

Acq: 14 Apr 2020 22:42

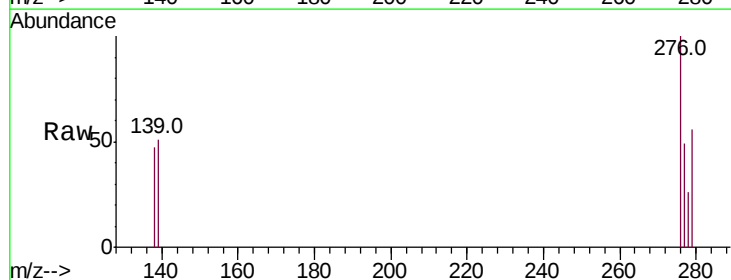
Tgt Ion:276 Resp: 1487

Ion Ratio Lower Upper

276 100

277 49.1 20.2 30.2#

138 46.8 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

