

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN061520\
 Data File : BN010887.D
 Acq On : 16 Jun 2020 02:37
 Operator : CG/JU
 Sample : L2989-01
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :

Quant Time: Jun 16 03:22:57 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN061020.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jun 15 11:09:46 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.55	152	2644	0.40	ng	0.00
7) Naphthalene-d8	10.30	136	9218	0.40	ng	0.00
13) Acenaphthene-d10	14.17	164	5387	0.40	ng	0.00
19) Phenanthrene-d10	16.92	188	10858	0.40	ng	0.00
27) Chrysene-d12	21.12	240	9320	0.40	ng	-0.01
34) Perylene-d12	23.27	264	9574	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.20	112	811	0.16	ng	0.00
5) Phenol-d6	6.74	99	532	0.09	ng	0.00
8) Nitrobenzene-d5	8.68	82	2388	0.35	ng	0.00
11) 2-Methylnaphthalene-d10	11.89	152	4640	0.32	ng	0.00
14) 2,4,6-Tribromophenol	15.67	330	574	0.30	ng	0.00
15) 2-Fluorobiphenyl	12.79	172	7772	0.37	ng	0.00
25) Fluoranthene-d10	18.95	212	11618	0.39	ng	0.00
29) Terphenyl-d14	19.57	244	11447	0.52	ng	0.00

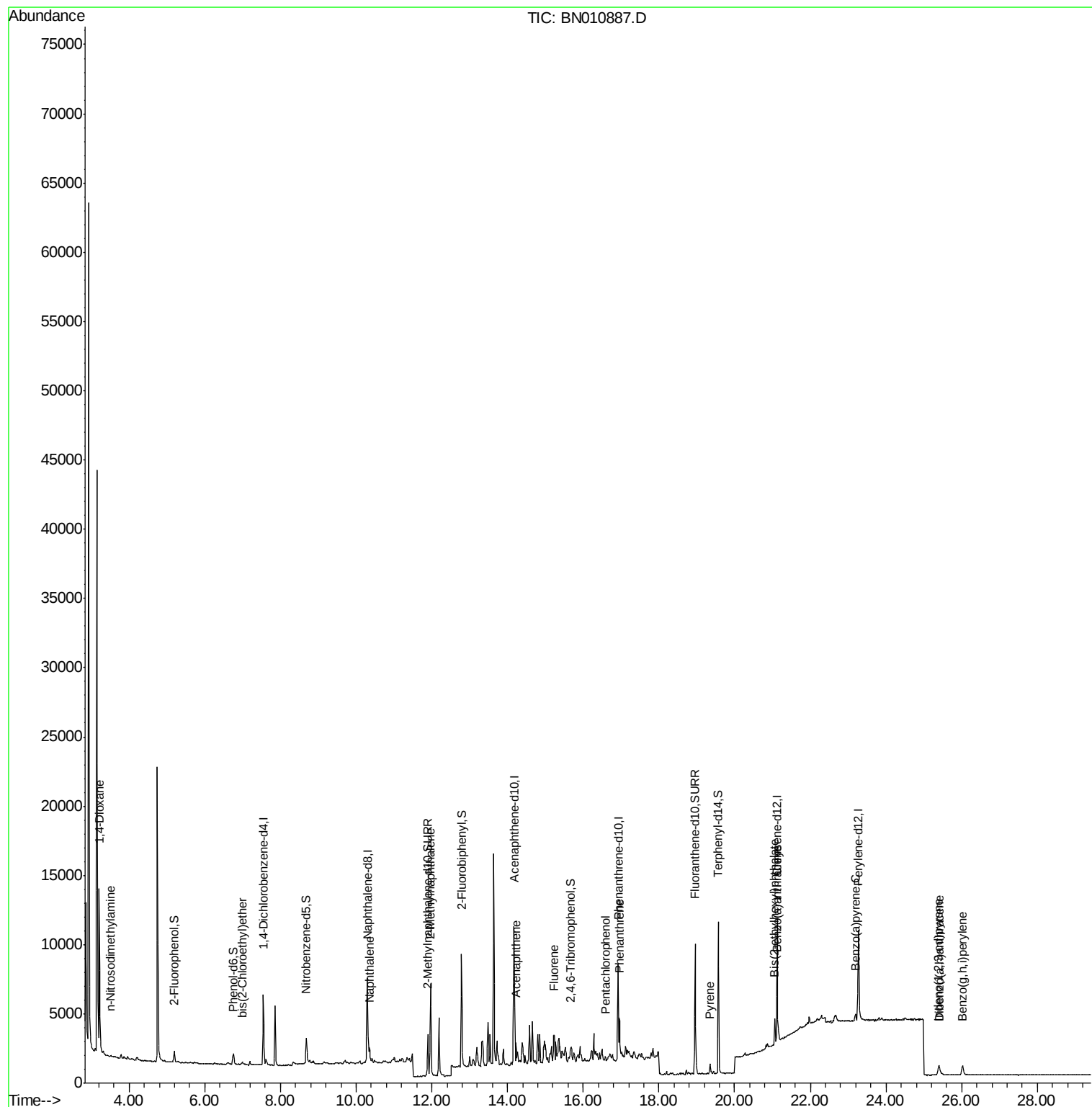
Target Compounds				Qvalue		
2) 1,4-Dioxane	3.22	88	10386	4.010	ng	97
3) n-Nitrosodimethylamine	3.51	42	37	0.025	ng	# 1
6) bis(2-Chloroethyl)ether	6.99	93	230	0.039	ng	# 84
9) Naphthalene	10.34	128	1387	0.060	ng	# 83
12) 2-Methylnaphthalene	11.97	142	5380	0.347	ng	98
17) Acenaphthene	14.22	154	407	0.027	ng	85
18) Fluorene	15.23	166	884	0.046	ng	# 93
22) Pentachlorophenol	16.59	266	62	0.027	ng	# 74
23) Phenanthrene	16.95	178	3587	0.121	ng	97
28) Pylene	19.35	202	852	0.028	ng	96
30) Benzo(a)anthracene	21.11	228	575	0.021	ng	# 69
32) Bis(2-ethylhexyl)phthalate	21.06	149	1739	0.190	ng	97
33) Indeno(1,2,3-cd)pyrene	25.38	276	1061	0.030	ng	# 97
37) Benzo(a)pyrene	23.18	252	668	0.024	ng	# 1
38) Dibenzo(a,h)anthracene	25.40	278	769	0.024	ng	# 1
39) Benzo(g,h,i)perylene	26.02	276	1553	0.047	ng	# 76

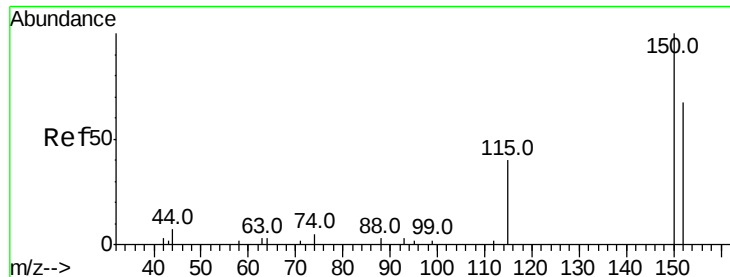
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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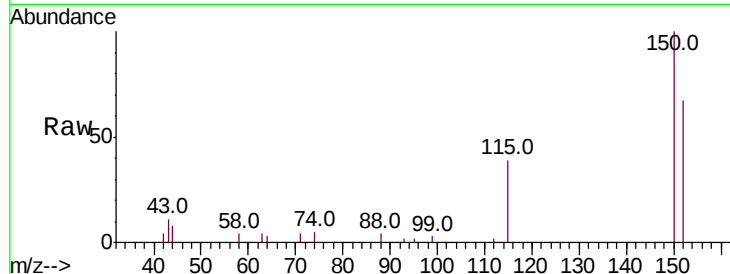


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.55 min Scan# 586
 Delta R.T. -0.00 min
 Lab File: BN010887.D
 Acq: 16 Jun 2020 02:37

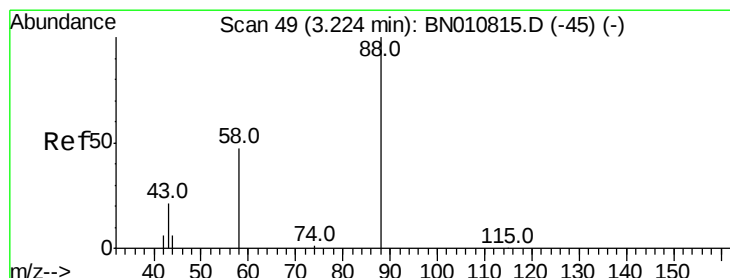
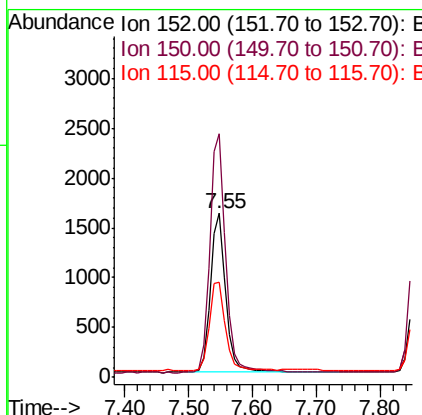
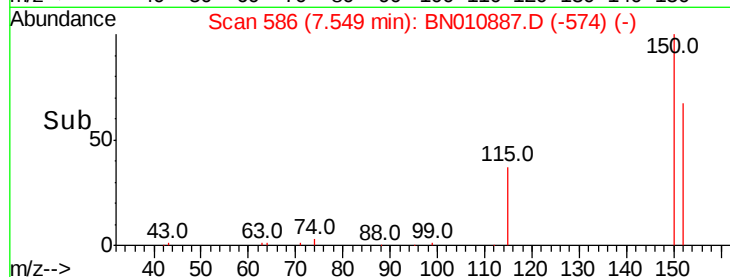
Instrument :
 BNA_N
 ClientSampleId :

Tot Ion:152 Resp: 2644

Ion	Ratio	Lower	Upper
152	100		
150	148.5	123.8	185.6
115	58.2	49.2	73.8



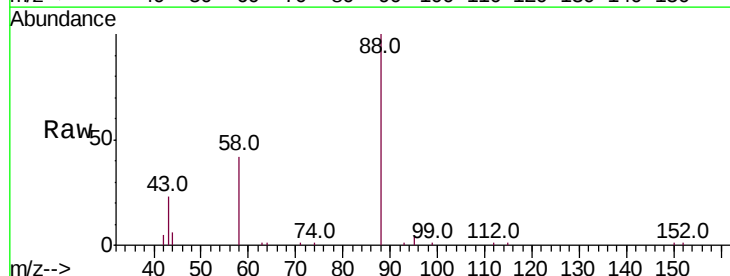
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



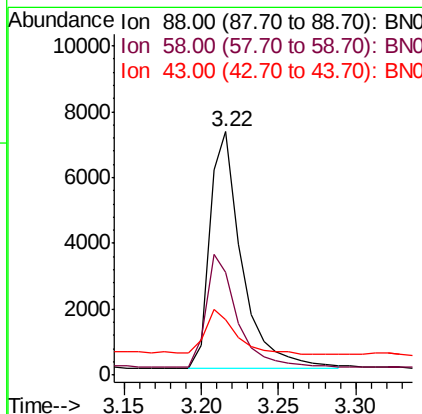
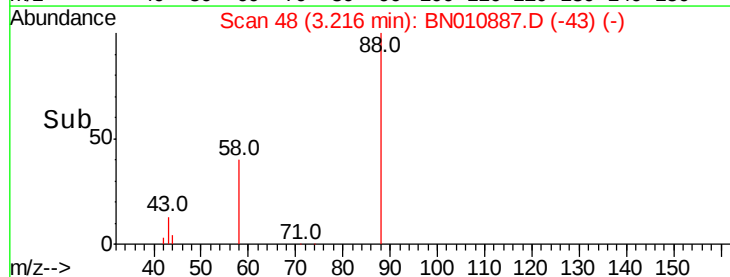
#2
 1,4-Dioxane
 Concen: 4.010 ng
 RT: 3.22 min Scan# 48
 Delta R.T. -0.01 min
 Lab File: BN010887.D
 Acq: 16 Jun 2020 02:37

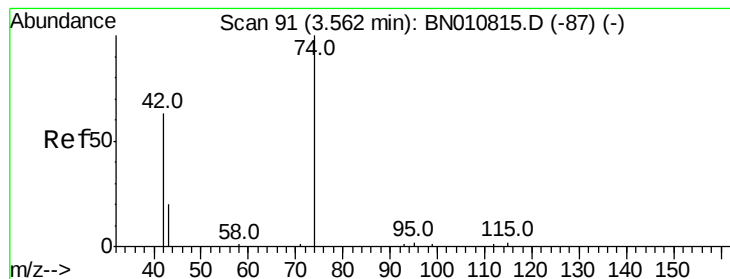
Tgt Ion: 88 Resp: 10386

Ion	Ratio	Lower	Upper
88	100		
58	45.2	38.2	57.4
43	17.9	15.1	22.7



Abundance Ion 88.00 (87.70 to 88.70): BNC
 Ion 58.00 (57.70 to 58.70): BNC
 Ion 43.00 (42.70 to 43.70): BNC





#3

n-Nitrosodimethylamine

Concen: 0.025 ng

RT: 3.51 min Scan# 85

Delta R.T. -0.03 min

Lab File: BN010887.D

Acq: 16 Jun 2020 02:37

Instrument :

BNA_N

ClientSampleId :

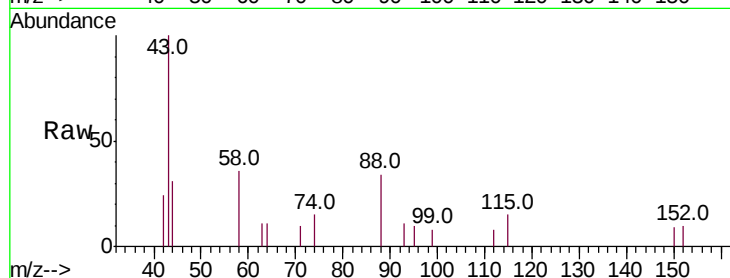
Tot Ion: 42 Resp: 37

Ion Ratio Lower Upper

42 100

74 0.0 140.7 211.1#

44 129.7 1.4 2.2#



Abundance Ion 42.00 (41.70 to 42.70): BN0

Ion 74.00 (73.70 to 74.70): BN0

Ion 44.00 (43.70 to 44.70): BN0

250

200

150

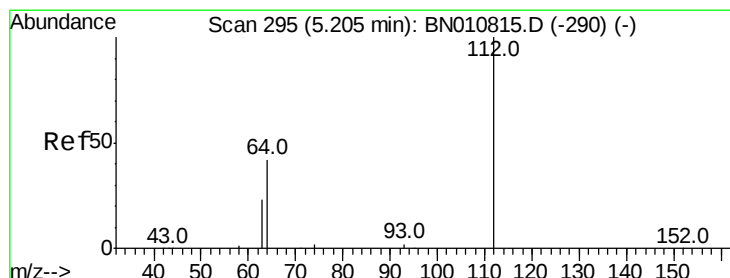
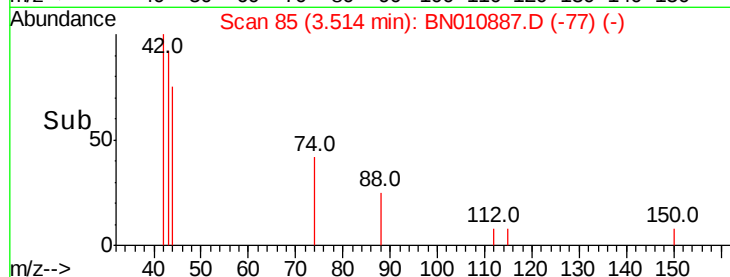
100

50

0

3.46 3.48 3.50 3.52 3.54

Time-->



#4

2-Fluorophenol

Concen: 0.159 ng

RT: 5.20 min Scan# 294

Delta R.T. -0.00 min

Lab File: BN010887.D

Acq: 16 Jun 2020 02:37

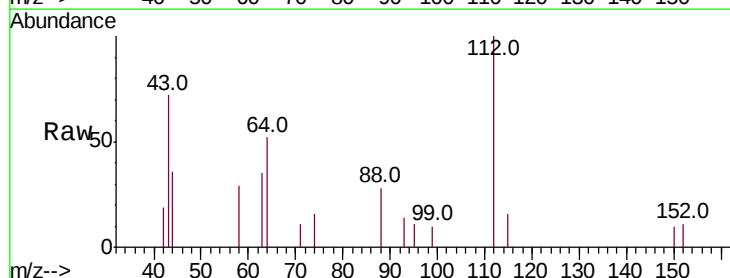
Tgt Ion: 112 Resp: 811

Ion Ratio Lower Upper

112 100

64 46.4 37.4 56.0

63 25.0 22.2 33.4



Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BN0

Ion 63.00 (62.70 to 63.70): BN0

600

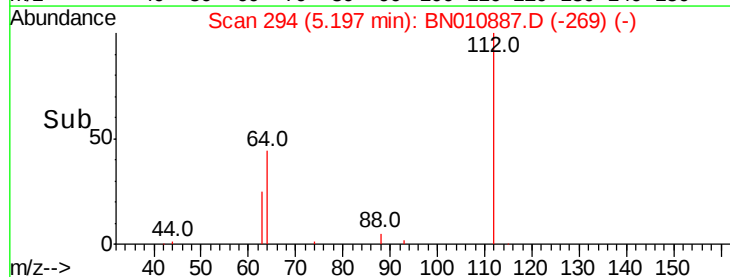
400

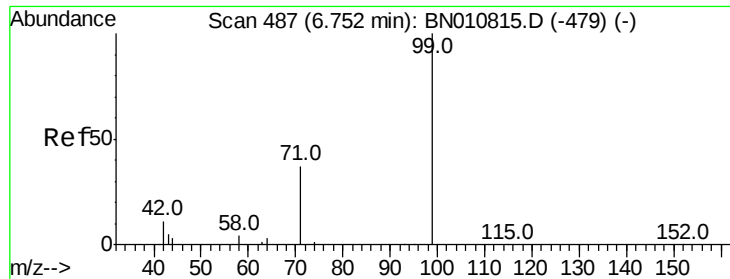
200

0

5.10 5.20 5.30 5.40

Time-->





#5

Phenol-d6

Concen: 0.088 ng

RT: 6.74 min Scan# 486

Delta R.T. -0.00 min

Lab File: BN010887.D

Acq: 16 Jun 2020 02:37

Instrument :

BNA_N

ClientSampleId :

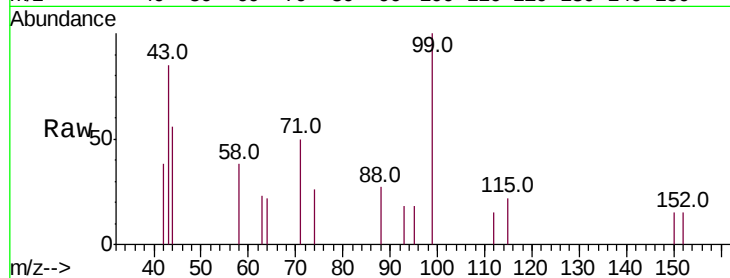
Tot Ion: 99 Resp: 532

Ion Ratio Lower Upper

99 100

42 16.2 11.1 16.7

71 43.2 31.4 47.2



Abundance Ion 99.00 (98.70 to 99.70): BN010887.D (-479) (-)

Ion 42.00 (41.70 to 42.70): BN010887.D (-479) (-)

Ion 71.00 (70.70 to 71.70): BN010887.D (-479) (-)

6.74

300

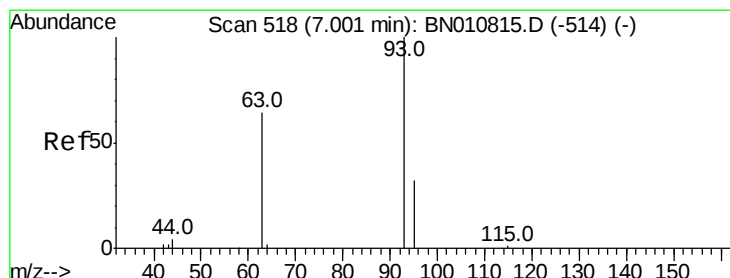
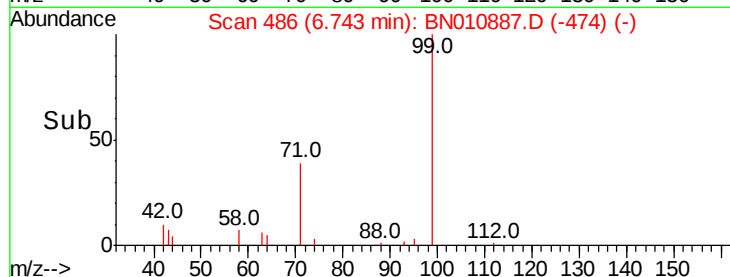
200

100

0

6.70 6.80

Time-->



#6

bis(2-Chloroethyl)ether

Concen: 0.039 ng

RT: 6.99 min Scan# 517

Delta R.T. -0.00 min

Lab File: BN010887.D

Acq: 16 Jun 2020 02:37

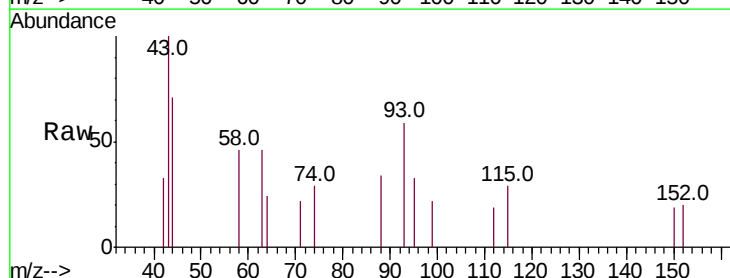
Tgt Ion: 93 Resp: 230

Ion Ratio Lower Upper

93 100

63 46.1 49.4 74.2#

95 28.7 26.7 40.1



Abundance Ion 93.00 (92.70 to 93.70): BN010887.D (-492) (-)

Ion 63.00 (62.70 to 63.70): BN010887.D (-492) (-)

Ion 95.00 (94.70 to 95.70): BN010887.D (-492) (-)

6.99

200

150

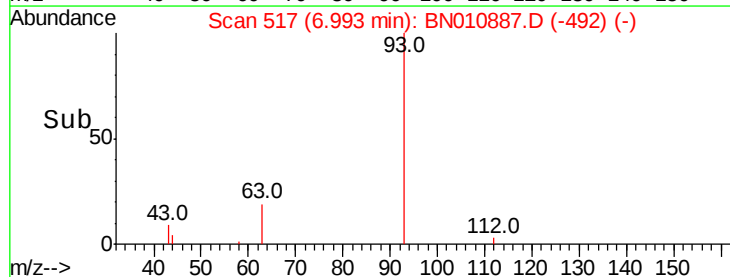
100

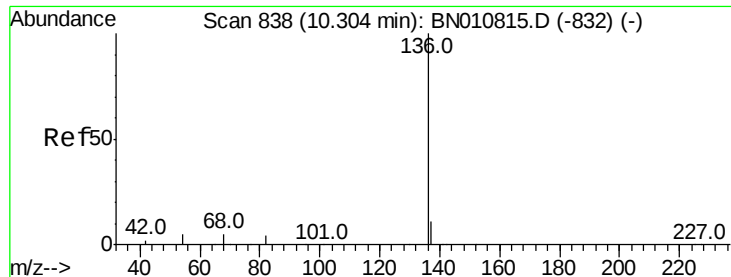
50

0

6.90 7.00 7.10

Time-->





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.30 min Scan# 838

Delta R.T. -0.00 min

Lab File: BN010887.D

Acq: 16 Jun 2020 02:37

Instrument :

BNA_N

ClientSampleId :

Tot Ion:136 Resp: 9218

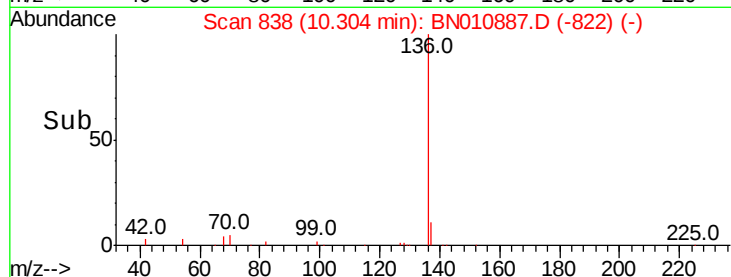
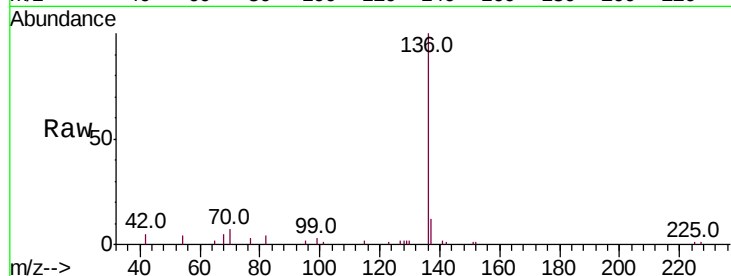
Ion Ratio Lower Upper

136 100

137 12.1 9.7 14.5

54 4.1 4.9 7.3#

68 5.1 4.7 7.1

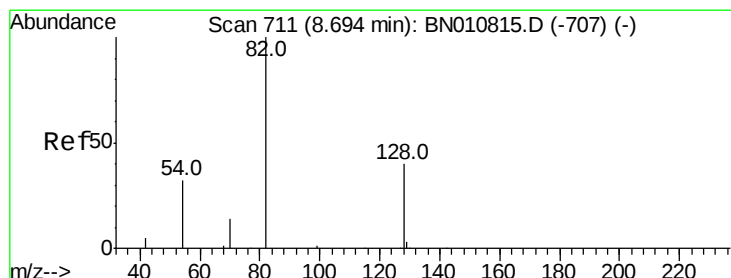
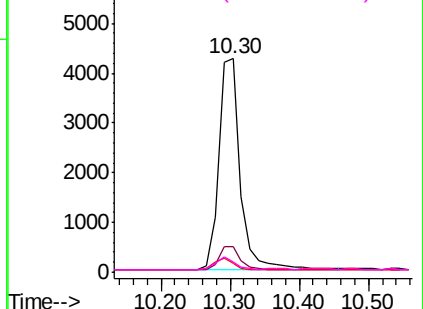


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BNC

Ion 68.00 (67.70 to 68.70): BNC



#8

Nitrobenzene-d5

Concen: 0.350 ng

RT: 8.68 min Scan# 710

Delta R.T. -0.00 min

Lab File: BN010887.D

Acq: 16 Jun 2020 02:37

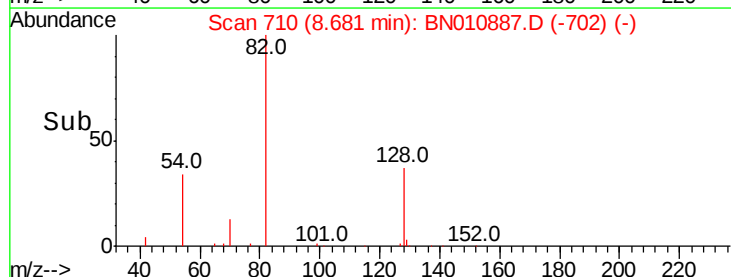
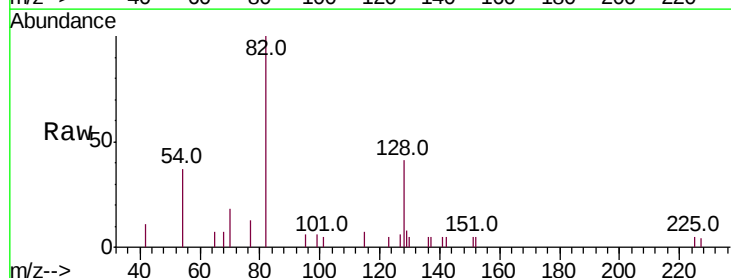
Tgt Ion: 82 Resp: 2388

Ion Ratio Lower Upper

82 100

128 40.9 35.4 53.0

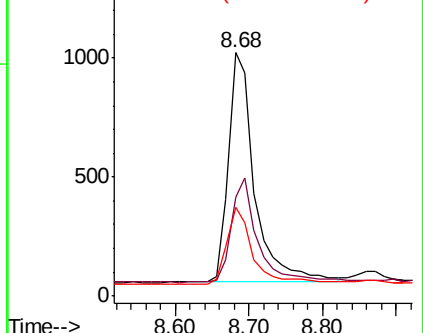
54 36.7 28.2 42.4

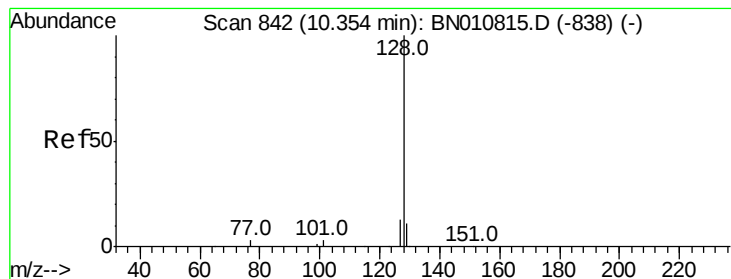


Abundance Ion 82.00 (81.70 to 82.70): BNC

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BNC





#9

Naphthalene

Concen: 0.060 ng

RT: 10.34 min Scan# 841

Delta R.T. -0.00 min

Lab File: BN010887.D

Acq: 16 Jun 2020 02:37

Instrument :

BNA_N

ClientSampleId :

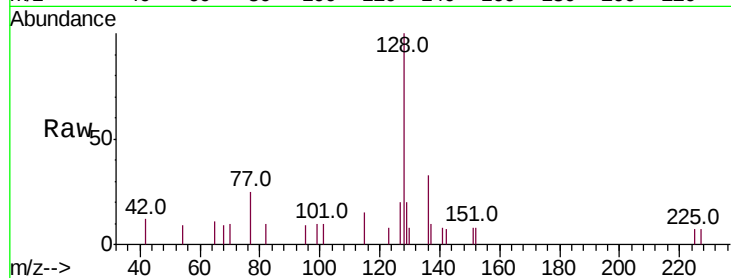
Tot Ion:128 Resp: 1387

Ion Ratio Lower Upper

128 100

129 19.7 9.6 14.4#

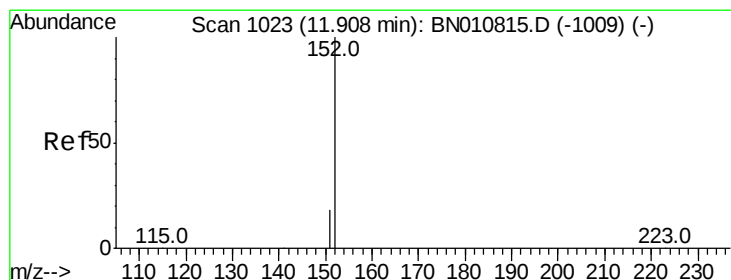
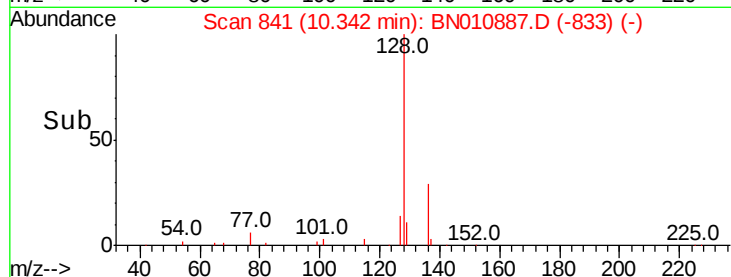
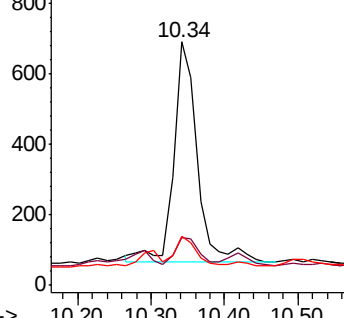
127 20.4 11.4 17.2#



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#11

2-Methylnaphthalene-d10

Concen: 0.325 ng

RT: 11.89 min Scan# 1019

Delta R.T. -0.00 min

Lab File: BN010887.D

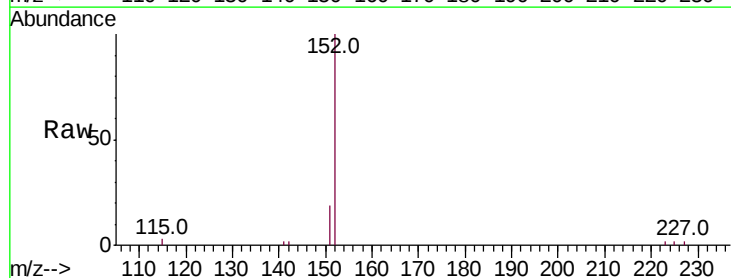
Acq: 16 Jun 2020 02:37

Tgt Ion:152 Resp: 4640

Ion Ratio Lower Upper

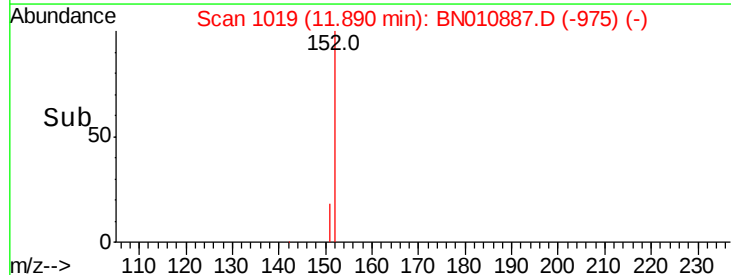
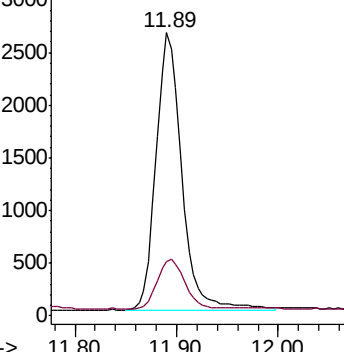
152 100

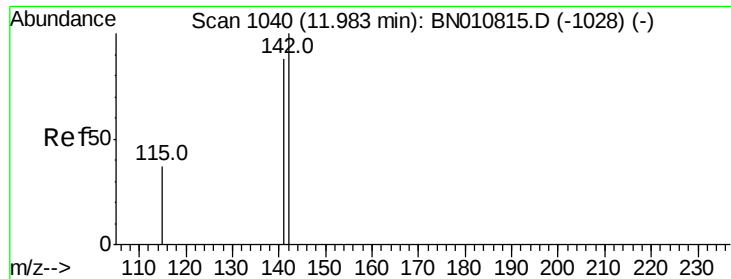
151 19.6 15.3 22.9



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

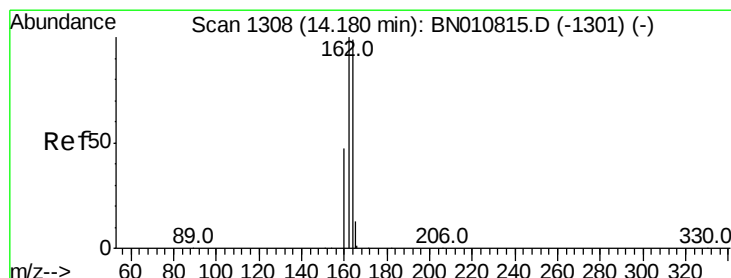
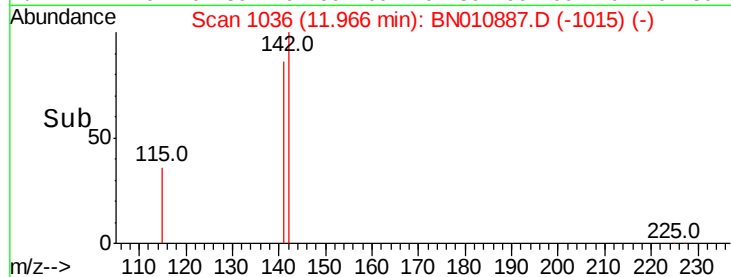
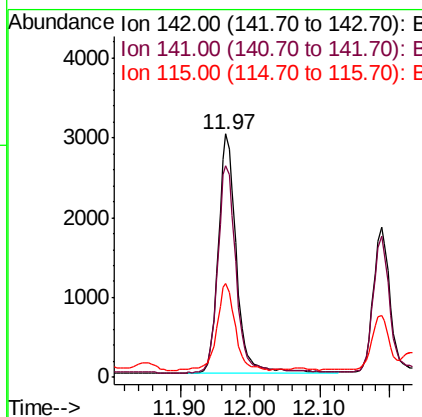
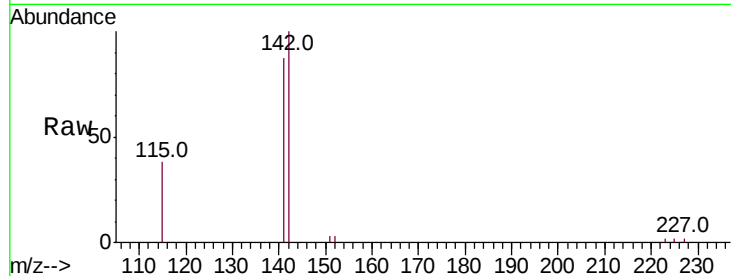




#12
2-Methylnaphthalene
Concen: 0.347 ng
RT: 11.97 min Scan# 1036
Delta R.T. -0.00 min
Lab File: BN010887.D
Acq: 16 Jun 2020 02:37

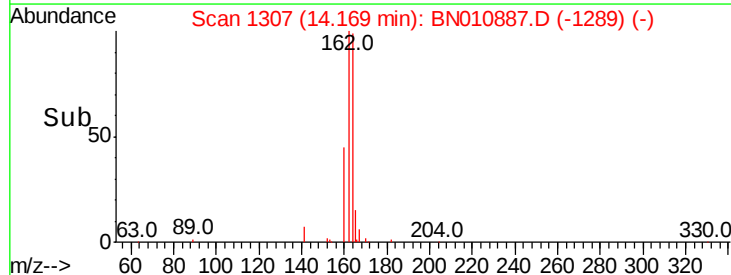
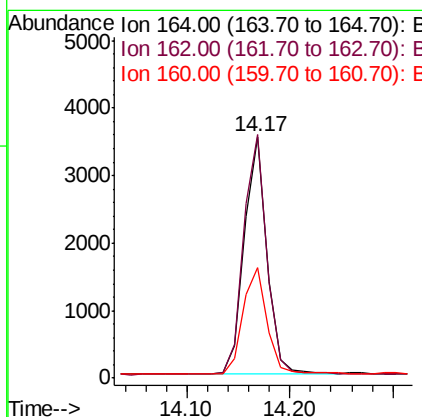
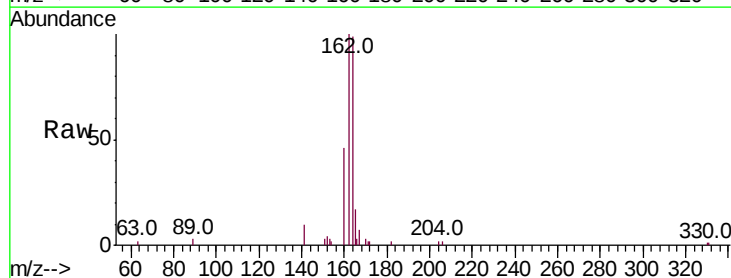
Instrument :
BNA_N
ClientSampleId :

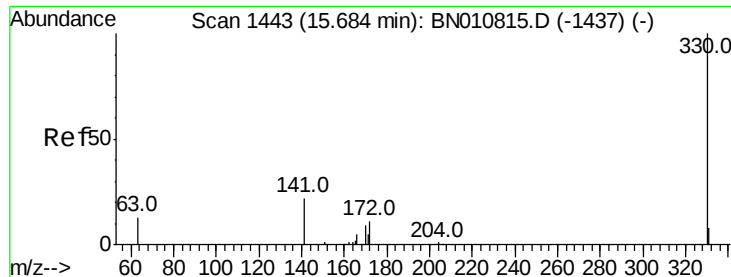
Tot Ion:142 Resp: 5380
Ion Ratio Lower Upper
142 100
141 86.7 70.8 106.2
115 38.4 31.5 47.3



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.17 min Scan# 1307
Delta R.T. -0.00 min
Lab File: BN010887.D
Acq: 16 Jun 2020 02:37

Tgt Ion:164 Resp: 5387
Ion Ratio Lower Upper
164 100
162 100.9 81.0 121.6
160 46.0 38.9 58.3





#14

2,4,6-Tribromophenol

Concen: 0.298 ng

RT: 15.67 min Scan# 1442

Delta R.T. -0.00 min

Lab File: BN010887.D

Acq: 16 Jun 2020 02:37

Instrument :

BNA_N

ClientSampled :

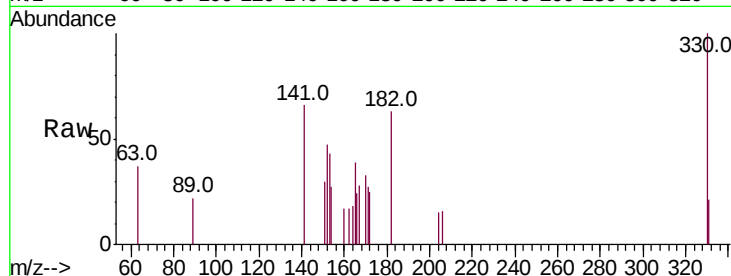
Tot Ion:330 Resp: 574

Ion Ratio Lower Upper

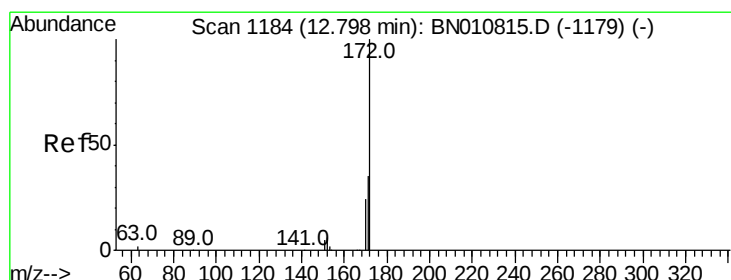
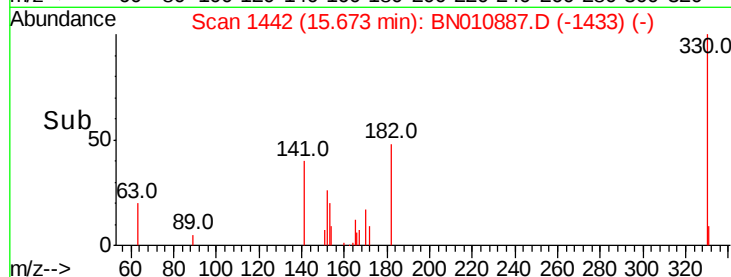
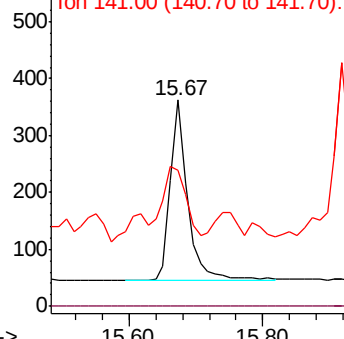
330 100

332 0.0 0.0 0.0

141 48.4 33.2 49.8



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: 0.366 ng

RT: 12.79 min Scan# 1183

Delta R.T. -0.00 min

Lab File: BN010887.D

Acq: 16 Jun 2020 02:37

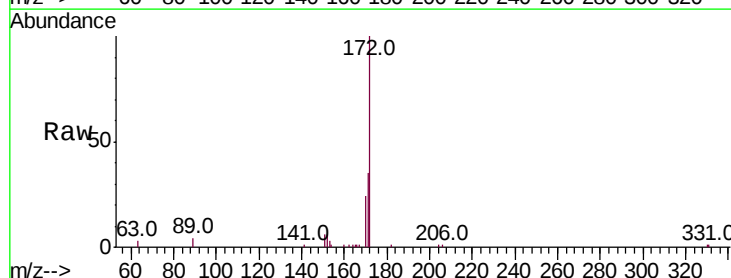
Tgt Ion:172 Resp: 7772

Ion Ratio Lower Upper

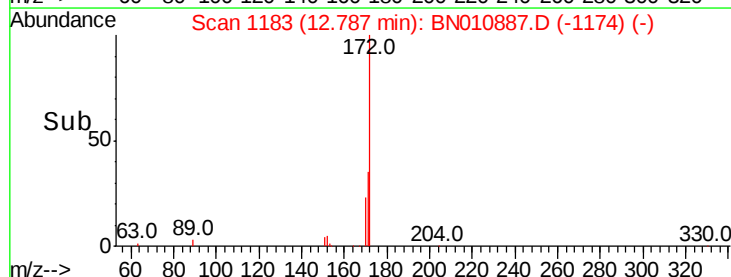
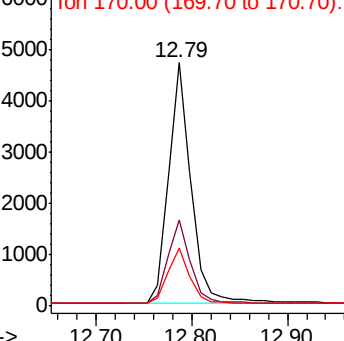
172 100

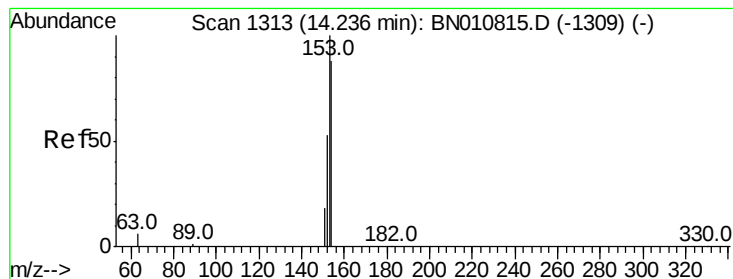
171 35.5 28.5 42.7

170 24.0 19.7 29.5



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: 0.027 ng

RT: 14.22 min Scan# 1312

Delta R.T. -0.01 min

Lab File: BN010887.D

Acq: 16 Jun 2020 02:37

Instrument :

BNA_N

ClientSampleId :

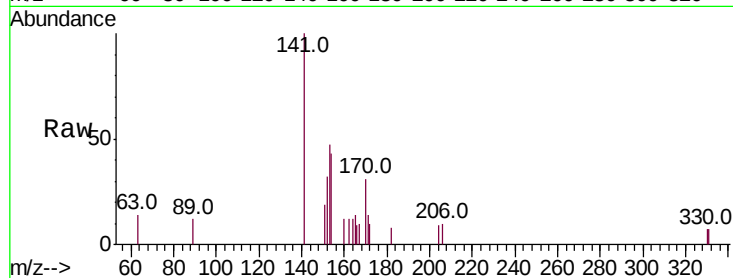
Tot Ion:154 Resp: 407

Ion Ratio Lower Upper

154 100

153 135.6 91.8 137.6

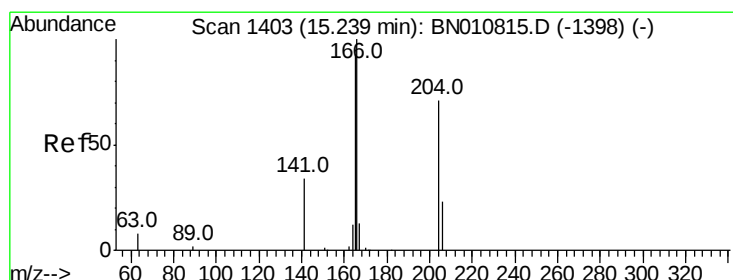
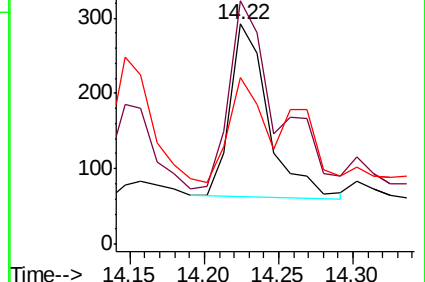
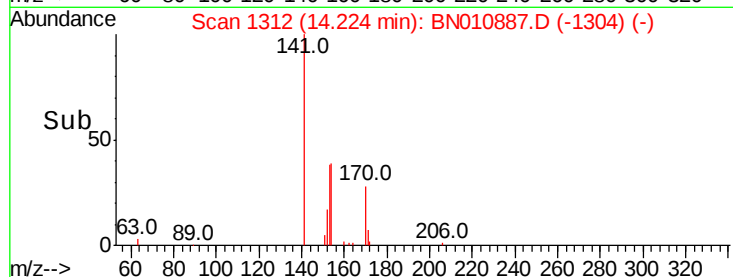
152 55.5 47.6 71.4



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: 0.046 ng

RT: 15.23 min Scan# 1402

Delta R.T. -0.00 min

Lab File: BN010887.D

Acq: 16 Jun 2020 02:37

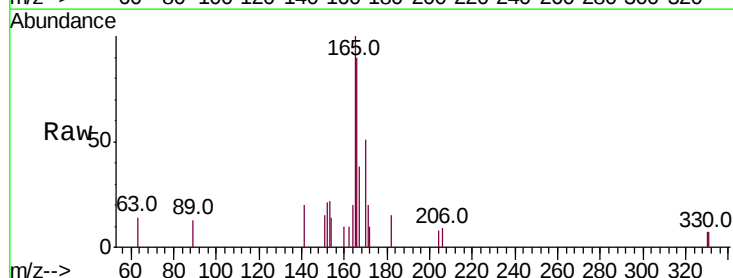
Tgt Ion:166 Resp: 884

Ion Ratio Lower Upper

166 100

165 98.9 77.2 115.8

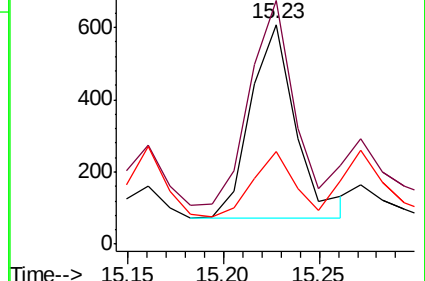
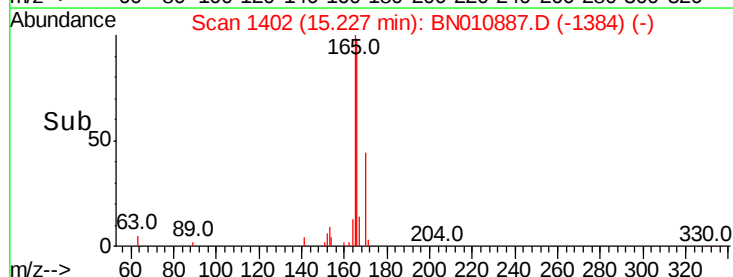
167 30.9 10.7 16.1#

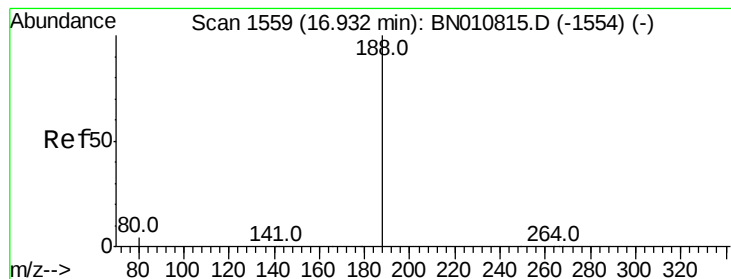


Abundance Ion 166.00 (165.70 to 166.70): E

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: 16.92 min Scan# 1558

Delta R.T. -0.00 min

Lab File: BN010887.D

Acq: 16 Jun 2020 02:37

Instrument :

BNA_N

ClientSampleId :

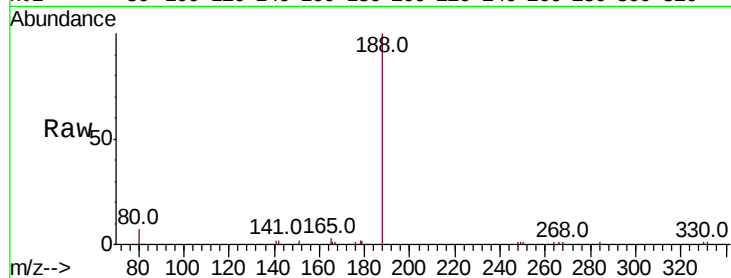
Tot Ion:188 Resp: 10858

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

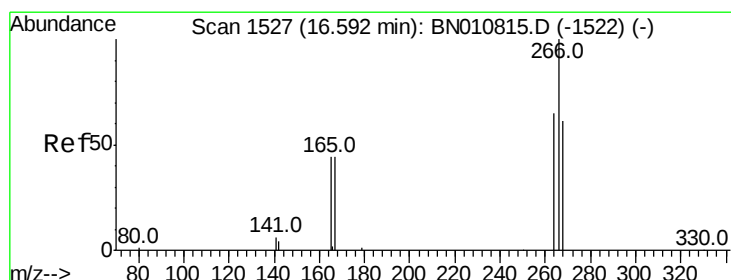
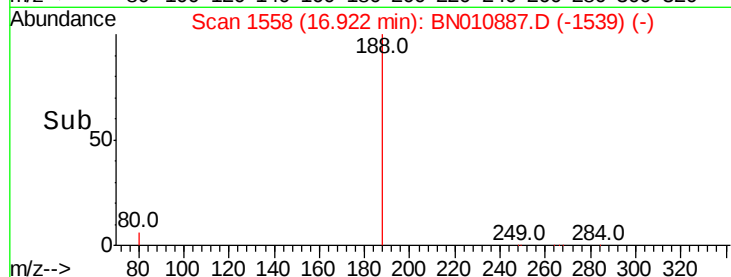
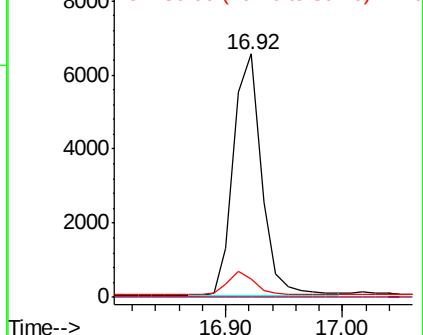
80 7.3 4.5 6.7#



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



#22

Pentachlorophenol

Concen: 0.027 ng

RT: 16.59 min Scan# 1527

Delta R.T. 0.01 min

Lab File: BN010887.D

Acq: 16 Jun 2020 02:37

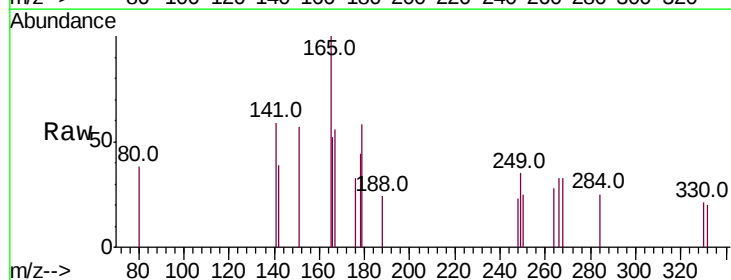
Tgt Ion:266 Resp: 62

Ion Ratio Lower Upper

266 100

264 83.8 54.8 82.2#

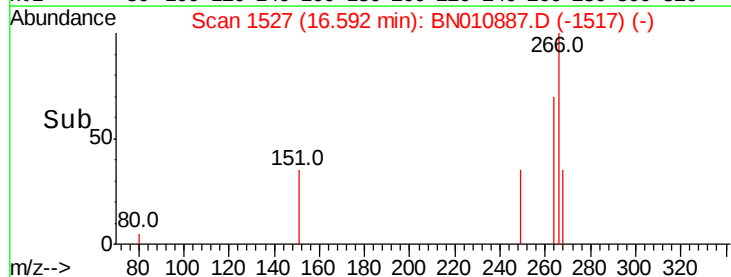
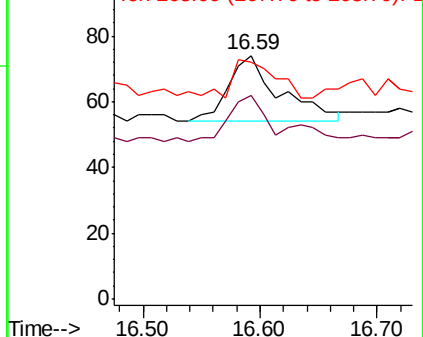
268 97.3 55.9 83.9#

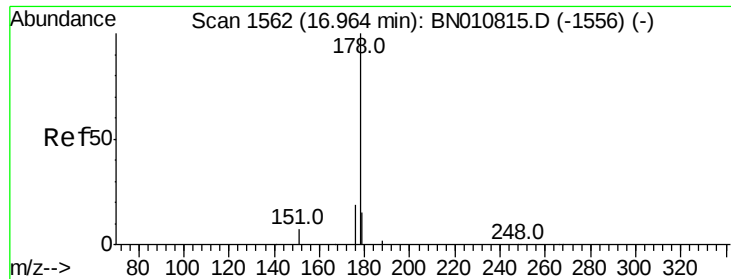


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.121 ng

RT: 16.95 min Scan# 1561

Delta R.T. -0.01 min

Lab File: BN010887.D

Acq: 16 Jun 2020 02:37

Instrument :

BNA_N

ClientSampleId :

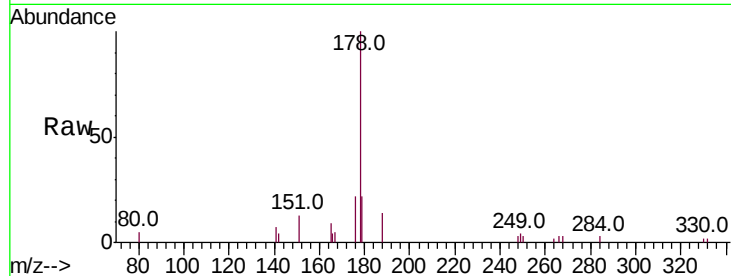
Tot Ion:178 Resp: 3587

Ion Ratio Lower Upper

178 100

176 19.0 15.3 22.9

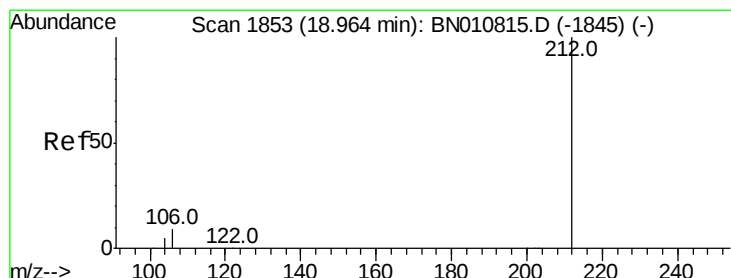
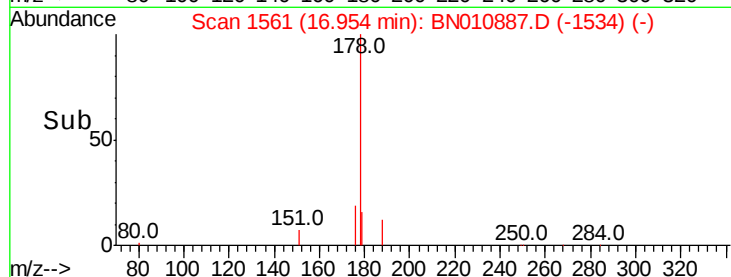
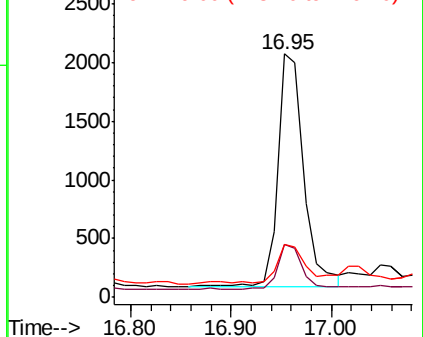
179 18.6 12.6 19.0



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: 0.388 ng

RT: 18.95 min Scan# 1851

Delta R.T. -0.01 min

Lab File: BN010887.D

Acq: 16 Jun 2020 02:37

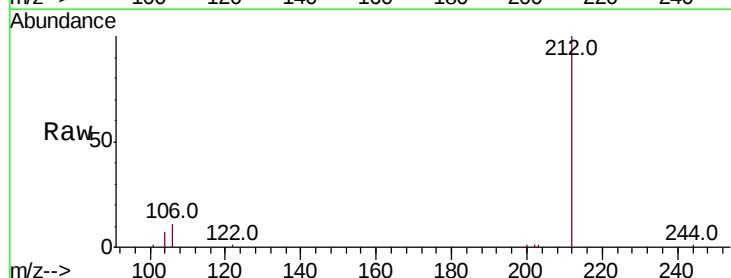
Tgt Ion:212 Resp: 11618

Ion Ratio Lower Upper

212 100

106 10.0 6.6 10.0#

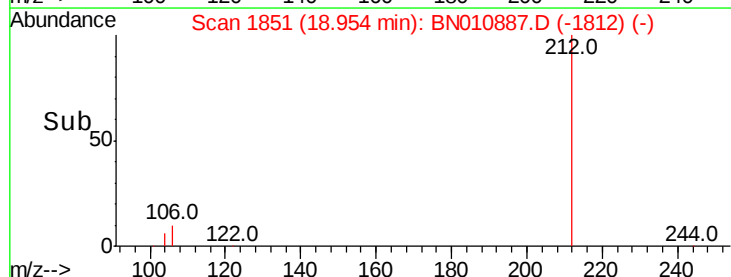
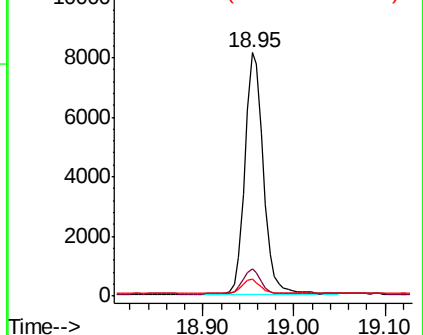
104 5.9 4.0 6.0

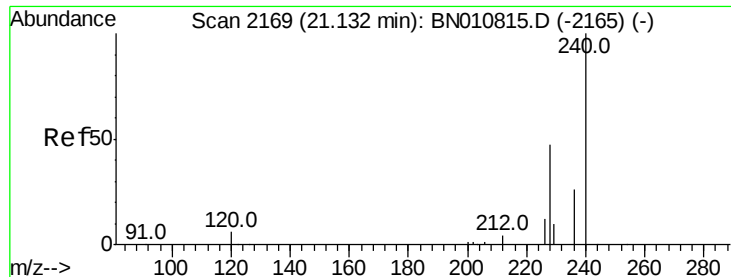


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E





#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.12 min Scan# 2168

Delta R.T. -0.01 min

Lab File: BN010887.D

Acq: 16 Jun 2020 02:37

Instrument :

BNA_N

ClientSampleId :

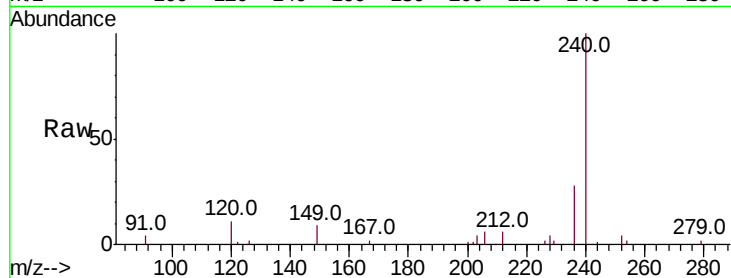
Tot Ion:240 Resp: 9320

Ion Ratio Lower Upper

240 100

120 10.7 7.5 11.3

236 27.8 22.3 33.5

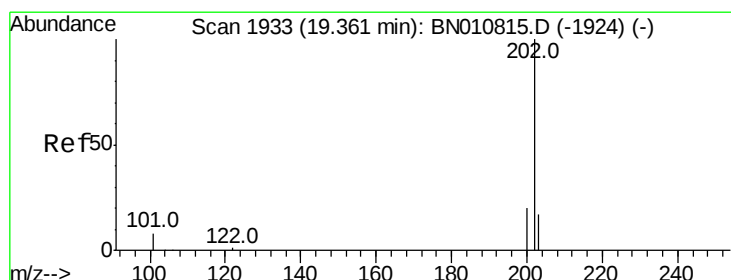
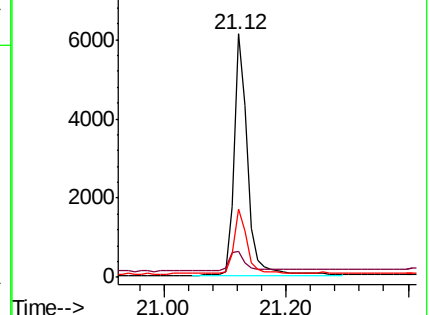
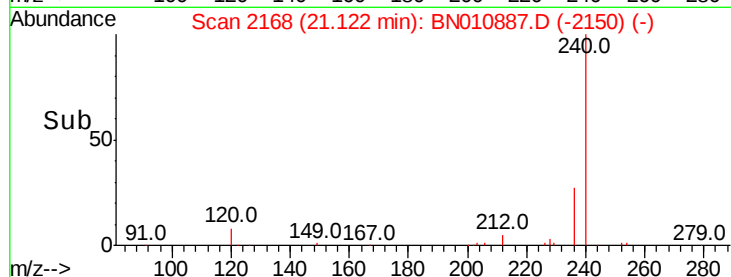


Abundance

Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#28

Pyrene

Concen: 0.028 ng

RT: 19.35 min Scan# 1931

Delta R.T. -0.00 min

Lab File: BN010887.D

Acq: 16 Jun 2020 02:37

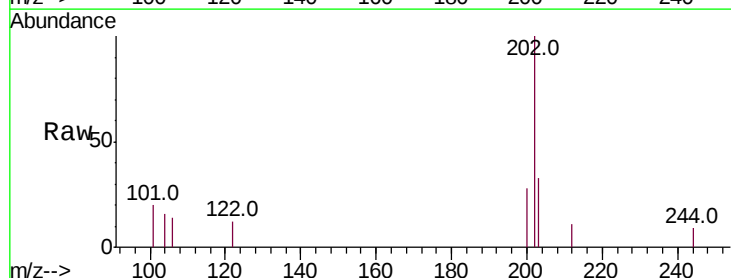
Tgt Ion:202 Resp: 852

Ion Ratio Lower Upper

202 100

200 22.2 16.4 24.6

203 20.2 14.2 21.4

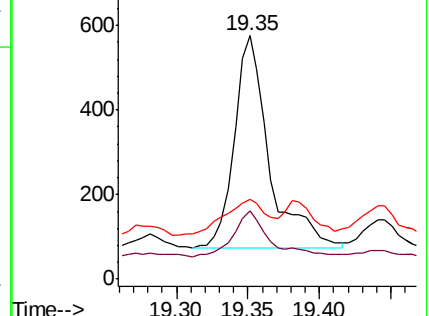
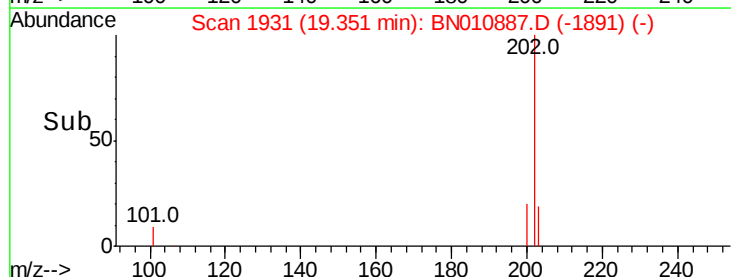


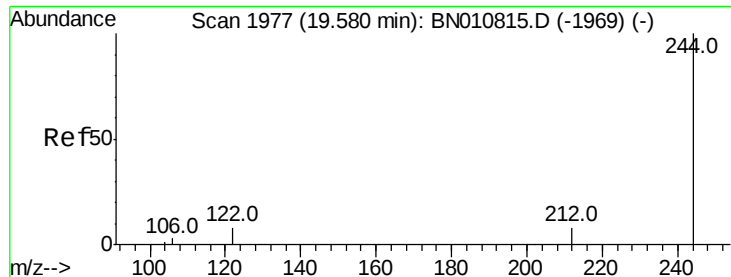
Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.525 ng

RT: 19.57 min Scan# 1975

Delta R.T. -0.01 min

Lab File: BN010887.D

Acq: 16 Jun 2020 02:37

Instrument :

BNA_N

ClientSampleId :

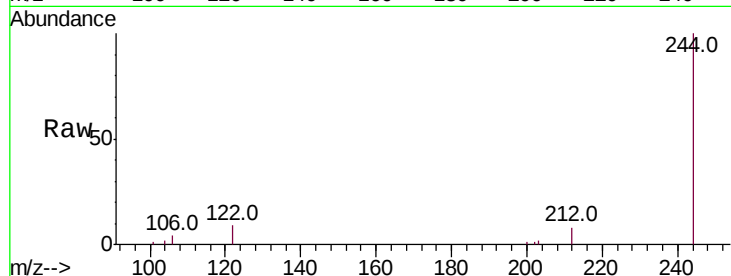
Tot Ion:244 Resp: 11447

Ion Ratio Lower Upper

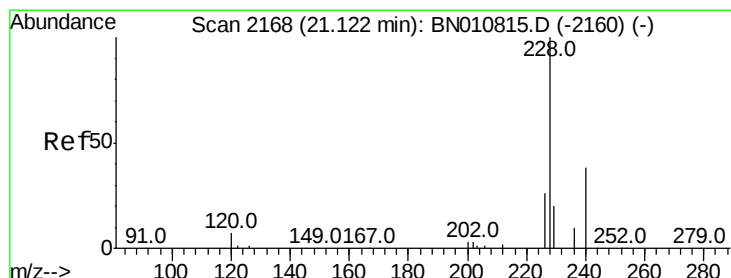
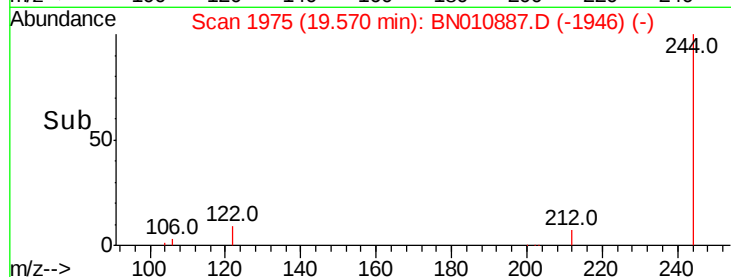
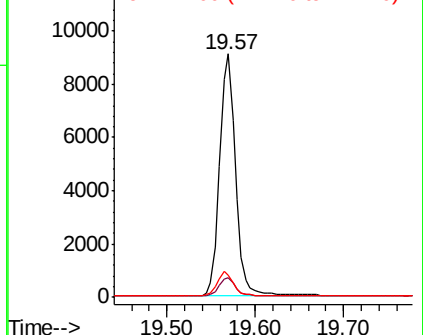
244 100

212 8.0 7.4 11.2

122 9.3 7.5 11.3



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: 0.021 ng

RT: 21.11 min Scan# 2167

Delta R.T. -0.00 min

Lab File: BN010887.D

Acq: 16 Jun 2020 02:37

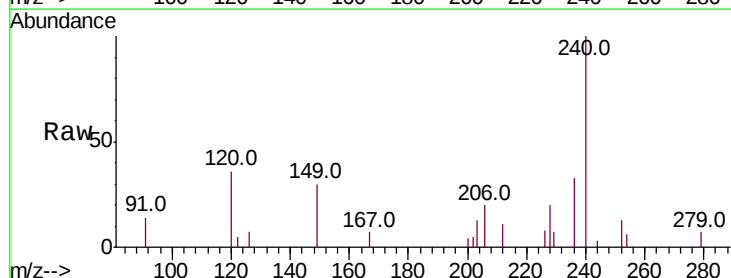
Tgt Ion:228 Resp: 575

Ion Ratio Lower Upper

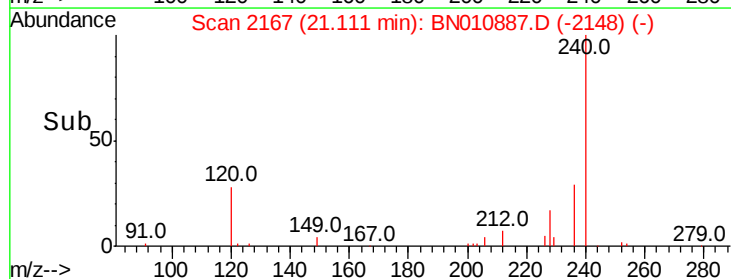
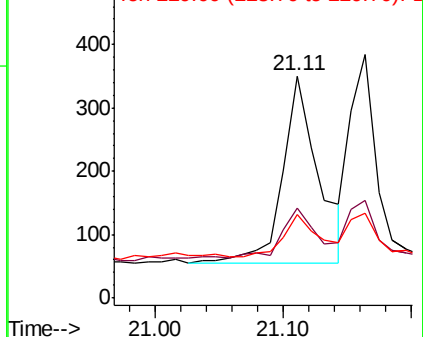
228 100

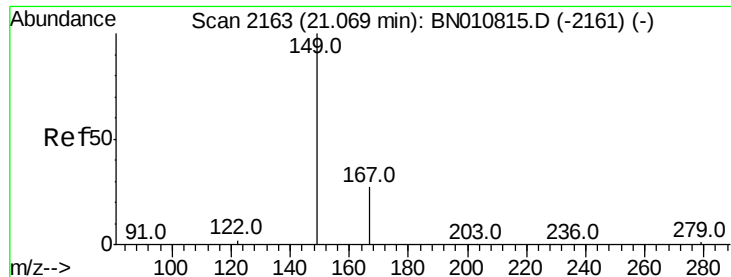
226 40.6 21.3 31.9#

229 37.4 16.6 24.8#



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





#32

Bis(2-ethylhexyl)phthalate

Concen: 0.190 ng

RT: 21.06 min Scan# 2162

Delta R.T. -0.01 min

Lab File: BN010887.D

Acq: 16 Jun 2020 02:37

Instrument :

BNA_N

ClientSampleId :

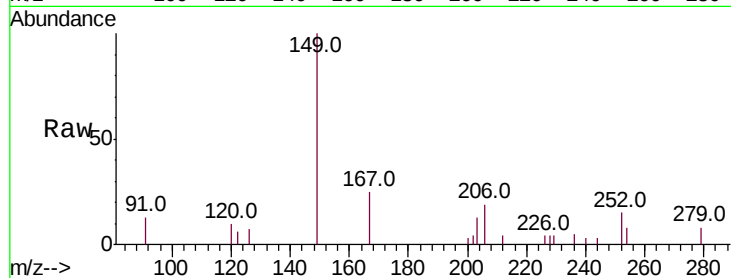
Tot Ion:149 Resp: 1739

Ion Ratio Lower Upper

149 100

167 28.1 24.1 36.1

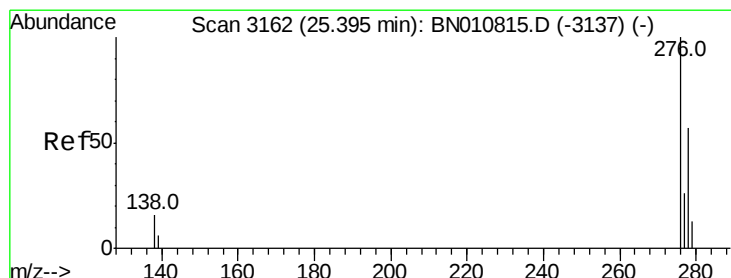
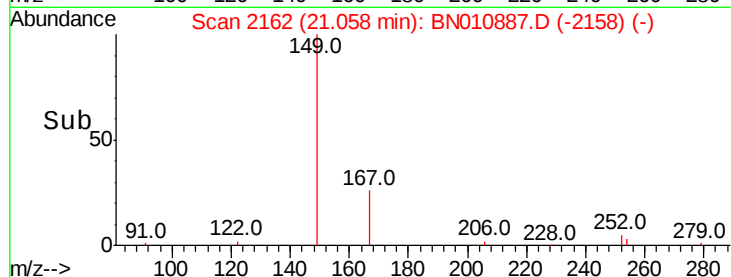
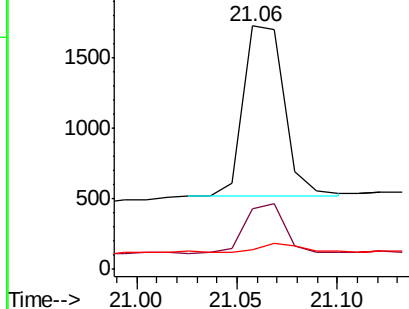
279 5.4 4.6 7.0



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: 0.030 ng

RT: 25.38 min Scan# 3159

Delta R.T. -0.00 min

Lab File: BN010887.D

Acq: 16 Jun 2020 02:37

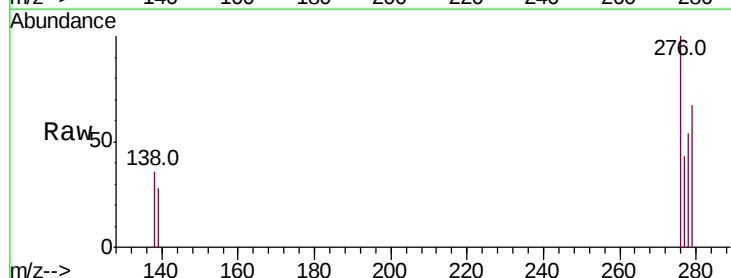
Tgt Ion:276 Resp: 1061

Ion Ratio Lower Upper

276 100

138 19.6 13.0 19.6#

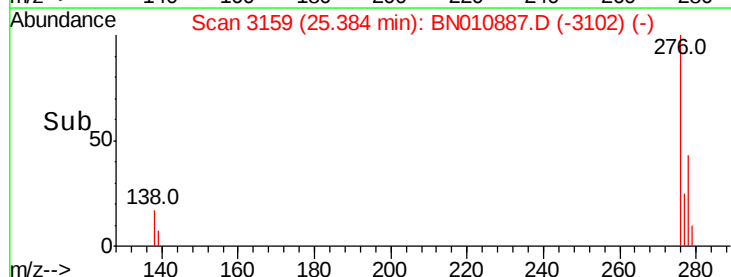
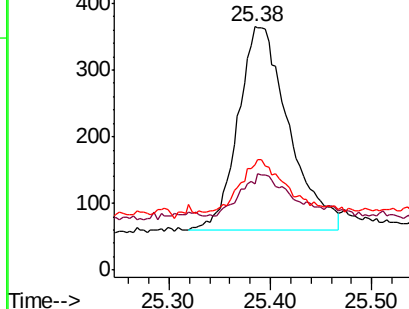
277 24.6 19.7 29.5

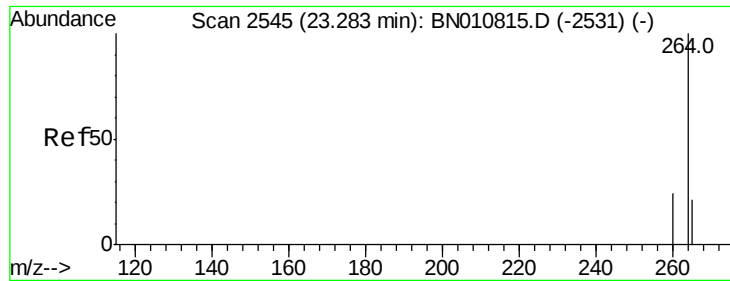


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

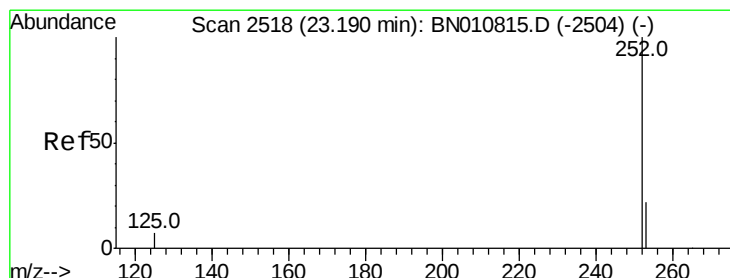
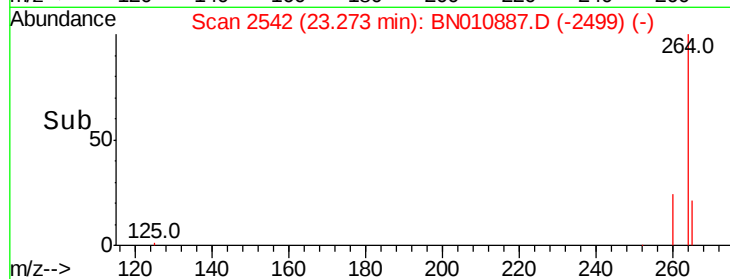
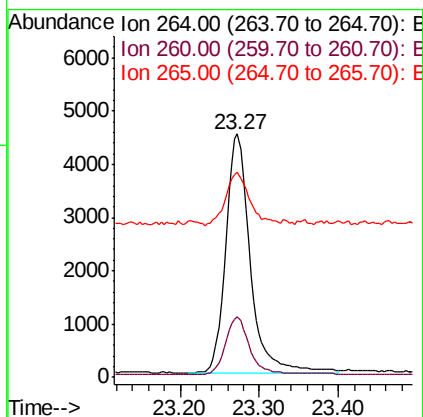
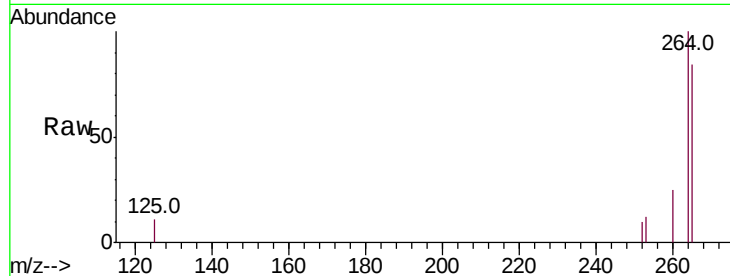




#34
Pervlene-d12
Concen: 0.400 ng
RT: 23.27 min Scan# 2542
Delta R.T. -0.00 min
Lab File: BN010887.D
Acq: 16 Jun 2020 02:37

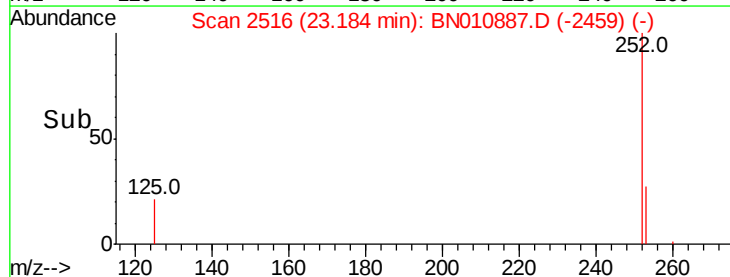
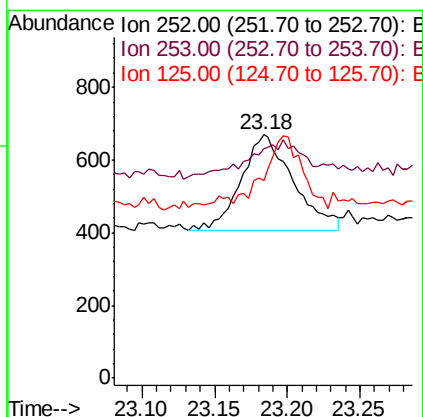
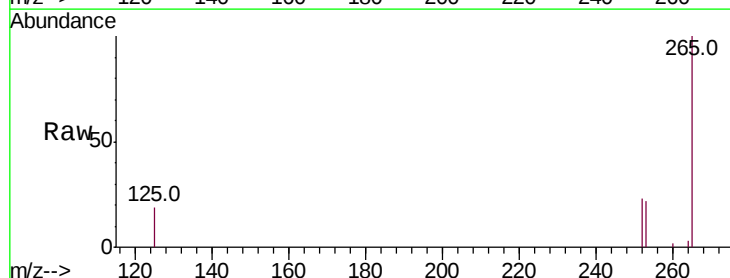
Instrument :
BNA_N
ClientSampleId :

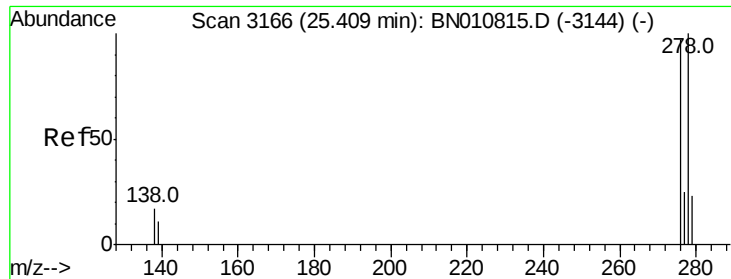
Tot Ion:264 Resp: 9574
Ion Ratio Lower Upper
264 100
260 24.8 20.4 30.6
265 84.0 75.0 112.4



#37
Benzo(a)pyrene
Concen: 0.024 ng
RT: 23.18 min Scan# 2516
Delta R.T. -0.00 min
Lab File: BN010887.D
Acq: 16 Jun 2020 02:37

Tgt Ion:252 Resp: 668
Ion Ratio Lower Upper
252 100
253 94.5 25.8 38.8#
125 81.3 12.4 18.6#





#38

Dibenzo(a,h)anthracene

Concen: 0.024 ng

RT: 25.40 min Scan# 3165

Delta R.T. 0.00 min

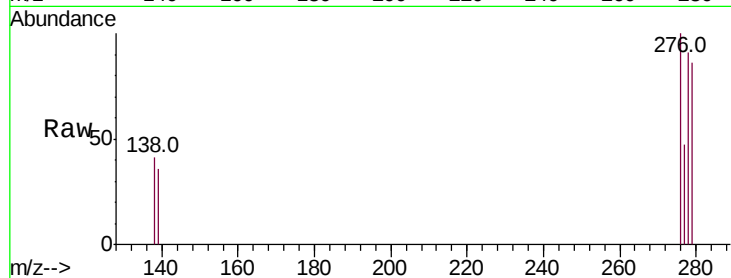
Lab File: BN010887.D

Acq: 16 Jun 2020 02:37

Instrument :

BNA_N

ClientSampleId :



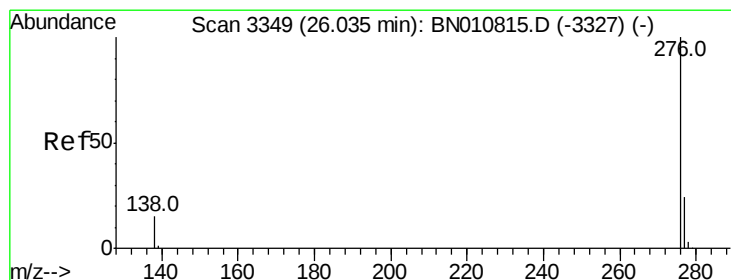
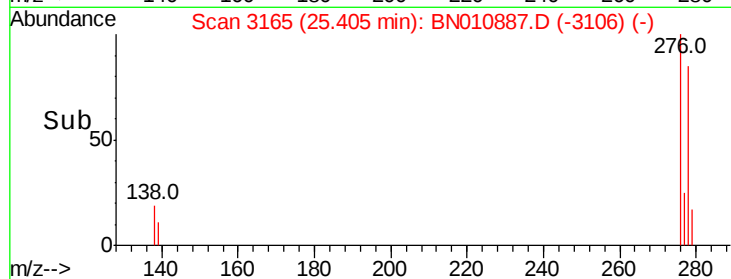
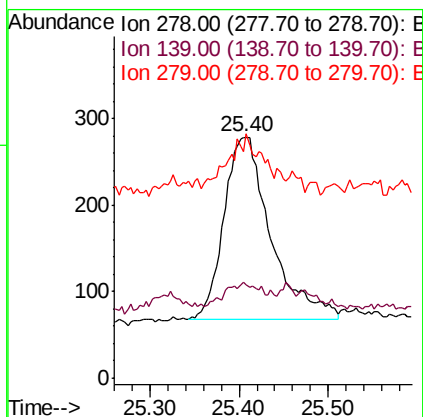
Tot Ion:278 Resp: 769

Ion Ratio Lower Upper

278 100

139 39.6 10.6 15.8#

279 94.2 23.6 35.4#



#39

Benzo(g,h,i)perylene

Concen: 0.047 ng

RT: 26.02 min Scan# 3345

Delta R.T. -0.00 min

Lab File: BN010887.D

Acq: 16 Jun 2020 02:37

Tgt Ion:276 Resp: 1553

Ion Ratio Lower Upper

276 100

277 36.1 20.5 30.7#

138 30.0 13.7 20.5#

