

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN041420\
 Data File : BN010491.D
 Acq On : 14 Apr 2020 23:18
 Operator : CG/JU
 Sample : L2178-06
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :

Quant Time: Apr 14 23:49:31 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	3256	0.40	ng	0.00
7) Naphthalene-d8	10.37	136	13753	0.40	ng	0.00
13) Acenaphthene-d10	14.23	164	9477	0.40	ng	0.00
19) Phenanthrene-d10	16.97	188	22674	0.40	ng	-0.01
27) Chrysene-d12	21.18	240	23967	0.40	ng	-0.01
34) Perylene-d12	23.35	264	21873	0.40	ng	-0.01

System Monitoring Compounds						
4) 2-Fluorophenol	5.25	112	1605	0.23	ng	0.00
5) Phenol-d6	6.79	99	1232	0.13	ng	0.00
8) Nitrobenzene-d5	8.73	82	7570	0.79	ng	-0.01
11) 2-Methylnaphthalene-d10	11.96	152	9139	0.40	ng	0.00
14) 2,4,6-Tribromophenol	15.72	330	2652	0.59	ng	0.00
15) 2-Fluorobiphenyl	12.85	172	26791	0.78	ng	0.00
25) Fluoranthene-d10	19.01	212	28590	0.42	ng	0.00
29) Terphenyl-d14	19.62	244	45900	0.84	ng	0.00

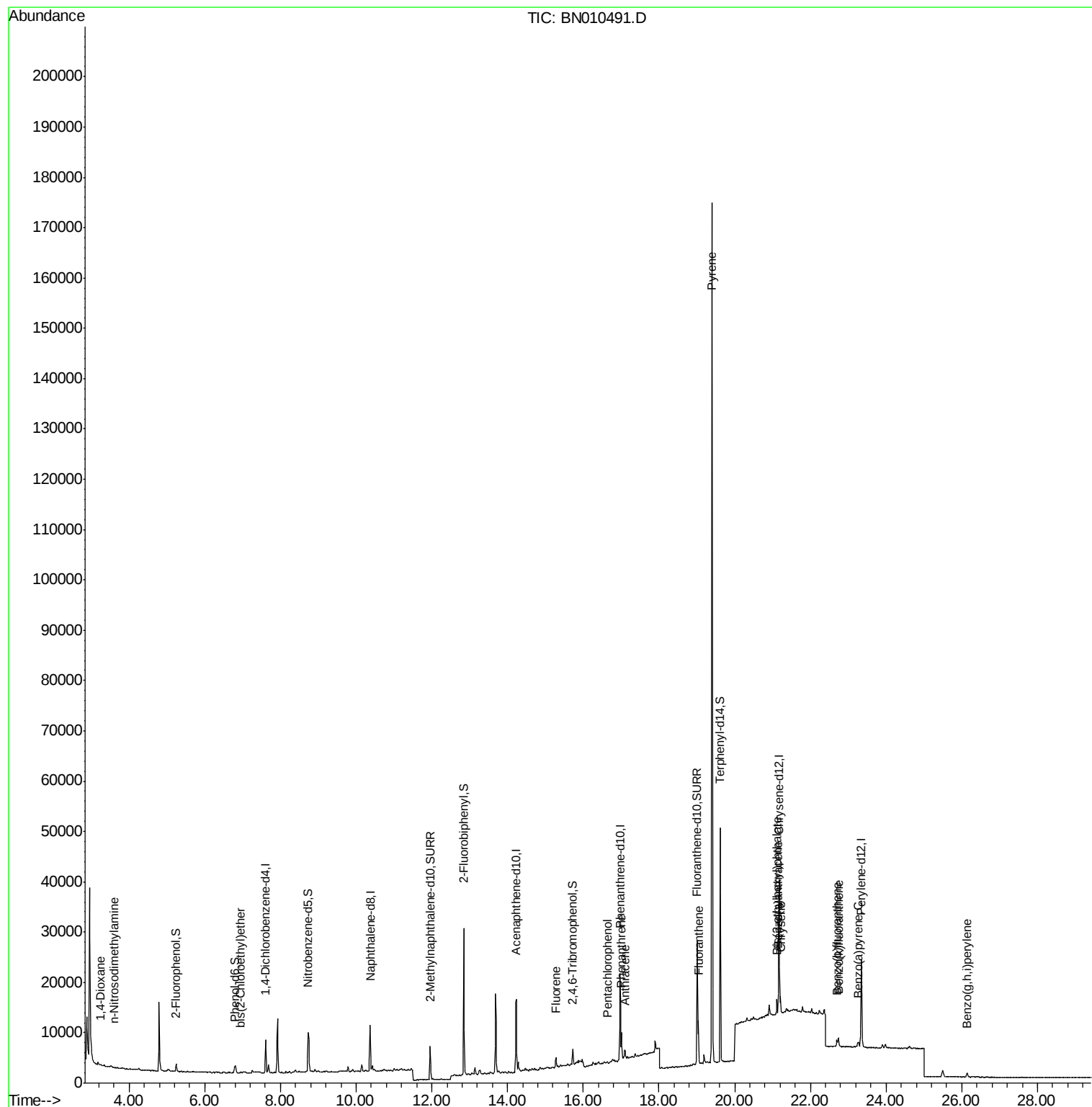
Target Compounds				Qvalue		
2) 1,4-Dioxane	3.25	88	85	0.035	ng	# 39
3) n-Nitrosodimethylamine	3.62	42	51	0.033	ng	# 1
6) bis(2-Chloroethyl)ether	6.95	93	338	0.042	ng	# 37
18) Fluorene	15.28	166	964	0.028	ng	# 77
22) Pentachlorophenol	16.63	266	119	0.021	ng	# 84
23) Phenanthrene	17.01	178	5423	0.089	ng	96
24) Anthracene	17.11	178	1704	0.030	ng	# 86
26) Fluoranthene	19.04	202	7786	0.102	ng	99
28) Pyrene	19.40	202	151517	1.878	ng	100
30) Benzo(a)anthracene	21.16	228	2148	0.027	ng	# 57
31) Chrysene	21.21	228	2695	0.035	ng	# 67
32) Bis(2-ethylhexyl)phthalate	21.11	149	2666	0.066	ng	# 94
35) Benzo(b)fluoranthene	22.70	252	1726	0.024	ng	# 1
36) Benzo(k)fluoranthene	22.74	252	1566	0.022	ng	# 1
37) Benzo(a)pyrene	23.25	252	1505	0.024	ng	# 1
39) Benzo(g,h,i)perylene	26.14	276	1440	0.025	ng	# 49

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

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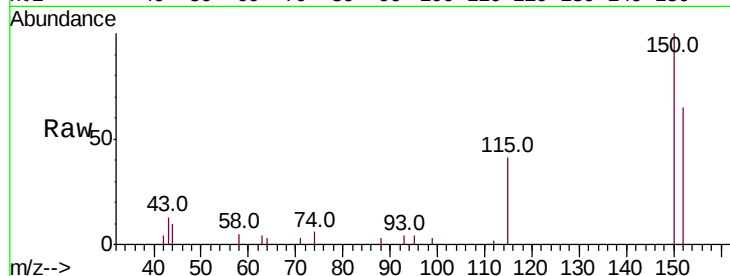


#1

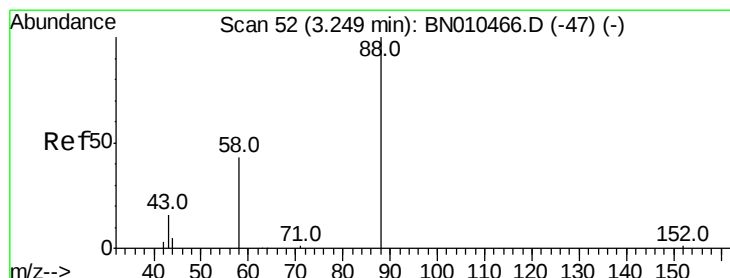
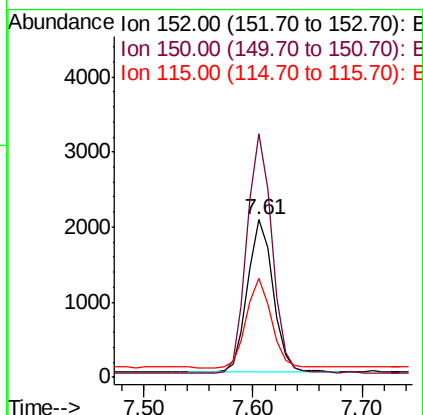
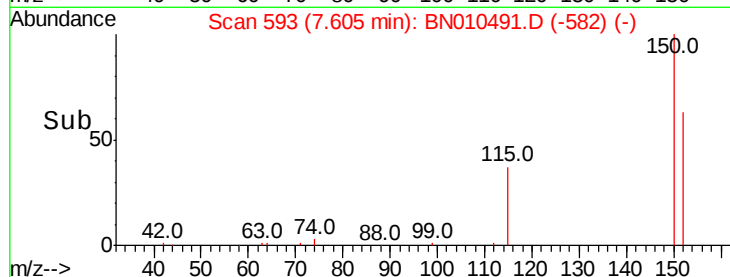
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.61 min Scan# 593
Delta R.T. -0.01 min
Lab File: BN010491.D
Acq: 14 Apr 2020 23:18

Instrument :
BNA_N
ClientSampleId :

Tot Ion:152 Resp: 3256
Ion Ratio Lower Upper
152 100
150 154.8 121.8 182.6
115 62.8 45.5 68.3



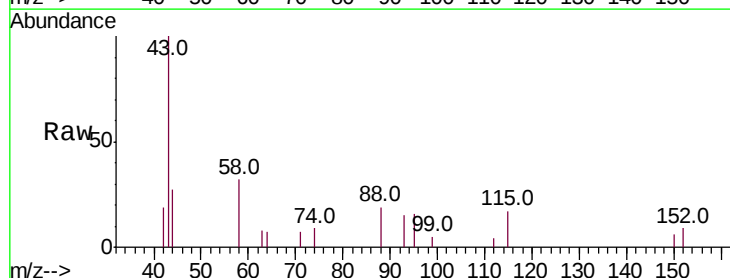
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



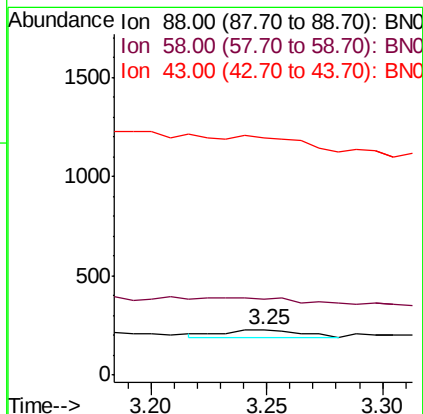
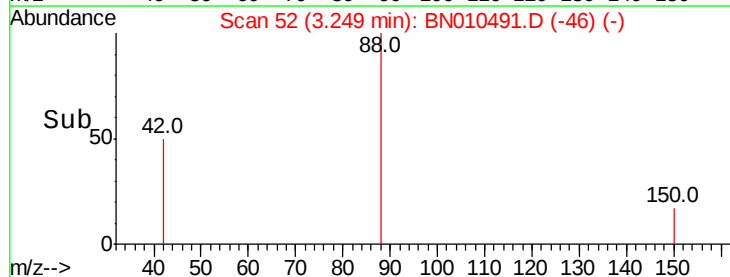
#2

1,4-Dioxane
Concen: 0.035 ng
RT: 3.25 min Scan# 52
Delta R.T. -0.00 min
Lab File: BN010491.D
Acq: 14 Apr 2020 23:18

Tgt Ion: 88 Resp: 85
Ion Ratio Lower Upper
88 100
58 0.0 36.5 54.7#
43 0.0 13.2 19.8#



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



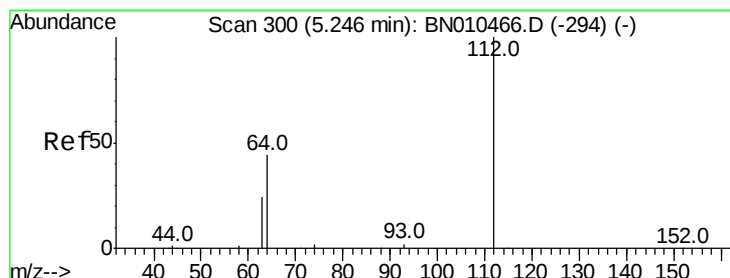
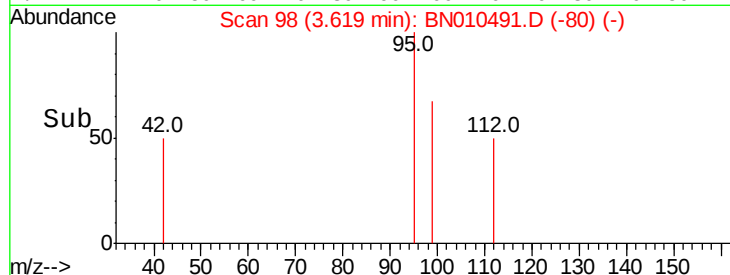
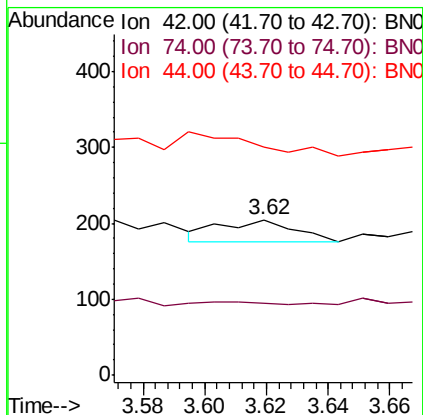
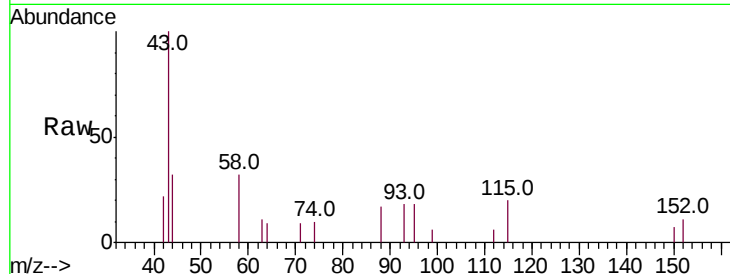


#3

n-Nitrosodimethylamine
 Concen: 0.033 ng
 RT: 3.62 min Scan# 98
 Delta R.T. 0.05 min
 Lab File: BN010491.D
 Acq: 14 Apr 2020 23:18

Instrument :
 BNA_N
 ClientSampleId :

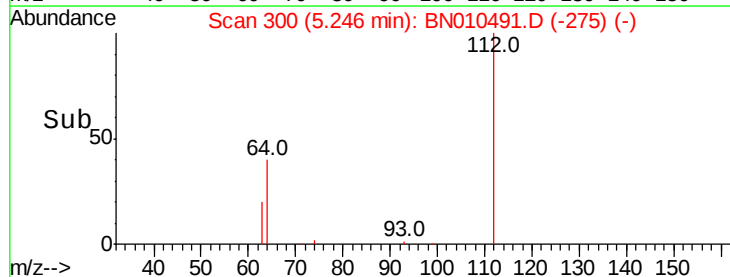
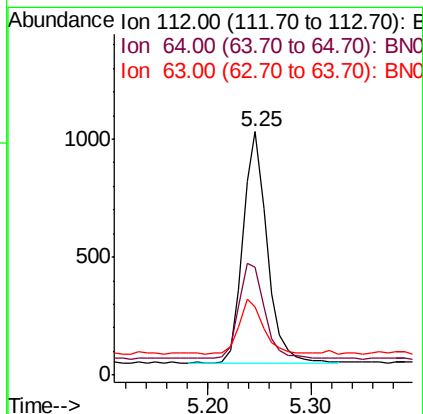
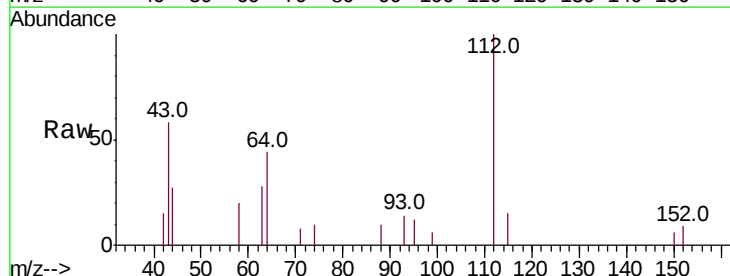
Tot Ion: 42 Resp: 51
 Ion Ratio Lower Upper
 42 100
 74 0.0 162.2 243.4#
 44 0.0 2.4 3.6#

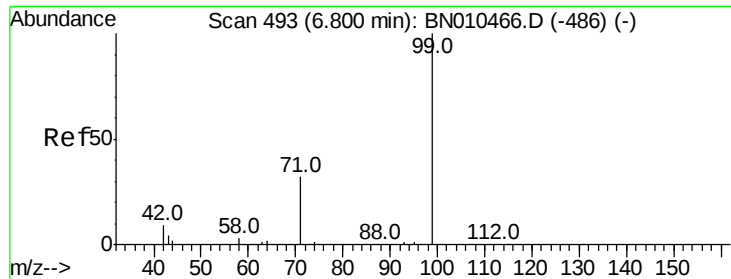


#4

2-Fluorophenol
 Concen: 0.225 ng
 RT: 5.25 min Scan# 300
 Delta R.T. -0.00 min
 Lab File: BN010491.D
 Acq: 14 Apr 2020 23:18

Tgt Ion: 112 Resp: 1605
 Ion Ratio Lower Upper
 112 100
 64 44.1 35.8 53.8
 63 23.6 19.9 29.9





#5

Phenol-d6

Concen: 0.132 ng

RT: 6.79 min Scan# 492

Delta R.T. -0.01 min

Lab File: BN010491.D

Acq: 14 Apr 2020 23:18

Instrument :

BNA_N

ClientSampled :

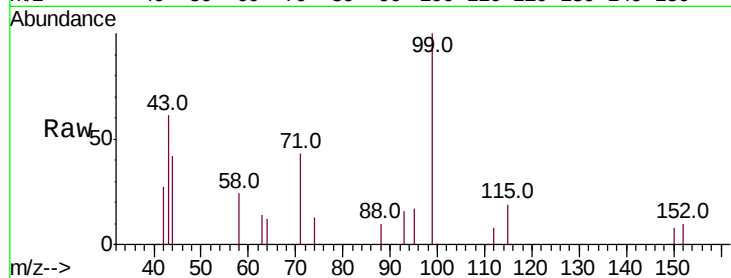
Tot Ion: 99 Resp: 1232

Ion Ratio Lower Upper

99 100

42 20.0 9.8 14.6#

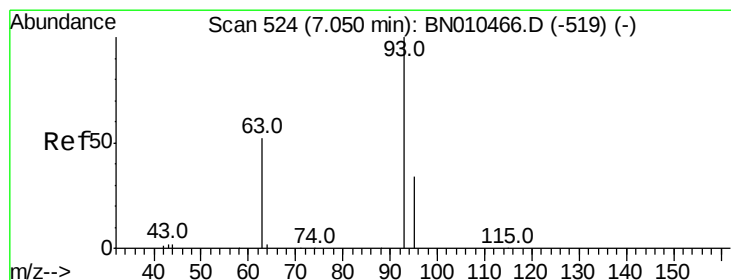
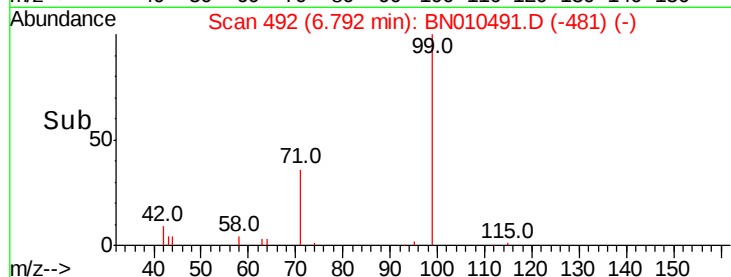
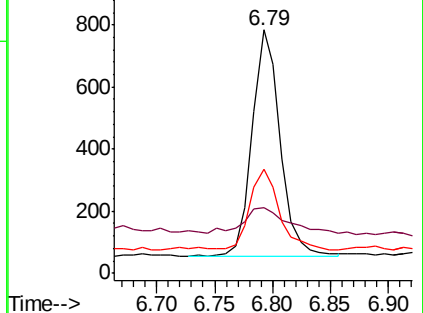
71 36.9 27.8 41.8



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

bis(2-Chloroethyl)ether

Concen: 0.042 ng

RT: 6.95 min Scan# 511

Delta R.T. -0.10 min

Lab File: BN010491.D

Acq: 14 Apr 2020 23:18

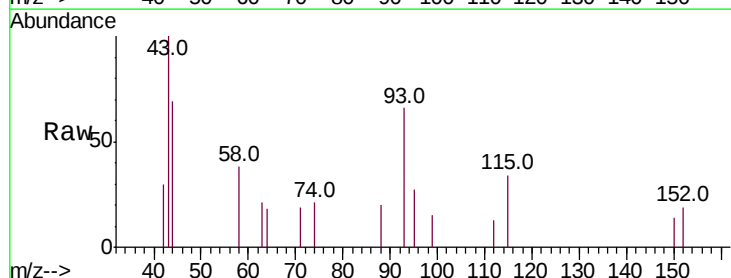
Tgt Ion: 93 Resp: 338

Ion Ratio Lower Upper

93 100

63 1.5 44.6 66.8#

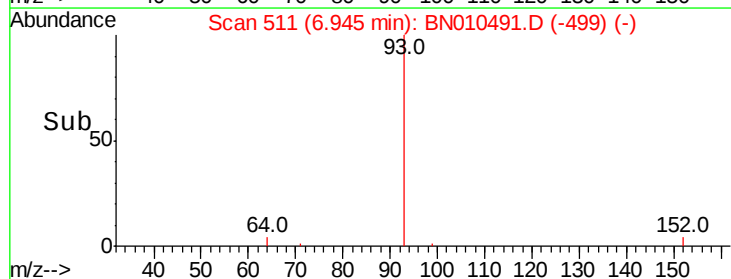
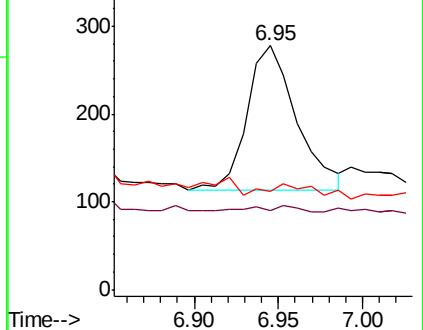
95 8.3 26.5 39.7#

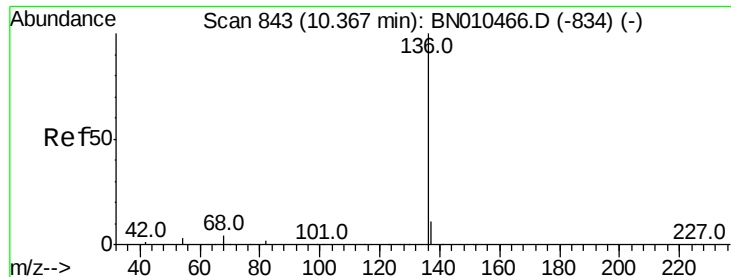


Abundance Ion 93.00 (92.70 to 93.70): BN010466.D (-519) (-)

Ion 63.00 (62.70 to 63.70): BN010466.D (-519) (-)

Ion 95.00 (94.70 to 95.70): BN010466.D (-519) (-)





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.37 min Scan# 843

Delta R.T. -0.00 min

Lab File: BN010491.D

Acq: 14 Apr 2020 23:18

Instrument :

BNA_N

ClientSampleId :

Tot Ion:136 Resp: 13753

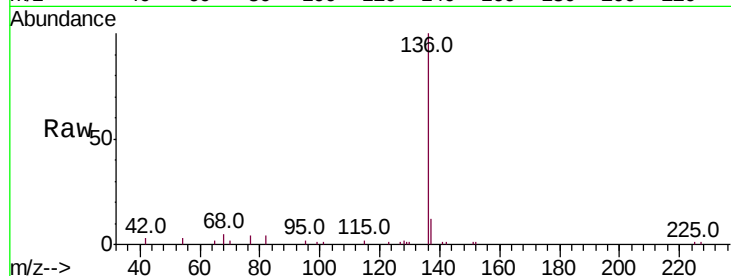
Ion Ratio Lower Upper

136 100

137 11.8 8.9 13.3

54 3.3 2.6 4.0

68 4.6 3.4 5.2

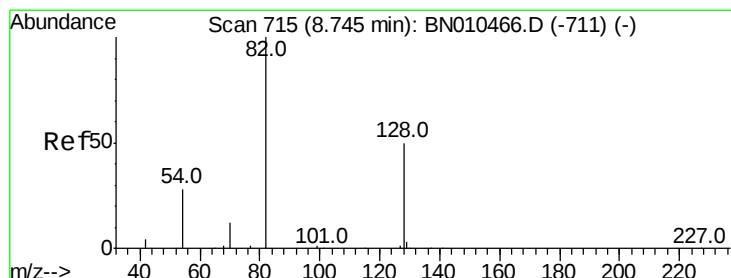
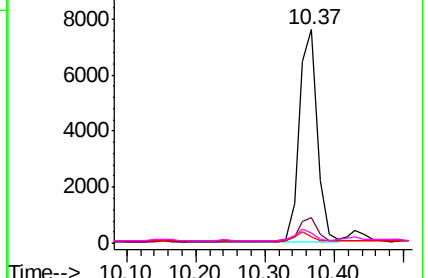
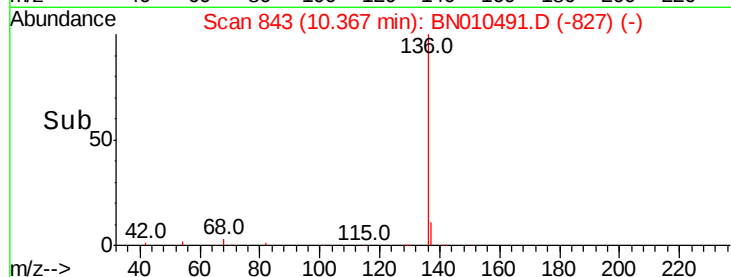


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.787 ng

RT: 8.73 min Scan# 714

Delta R.T. -0.01 min

Lab File: BN010491.D

Acq: 14 Apr 2020 23:18

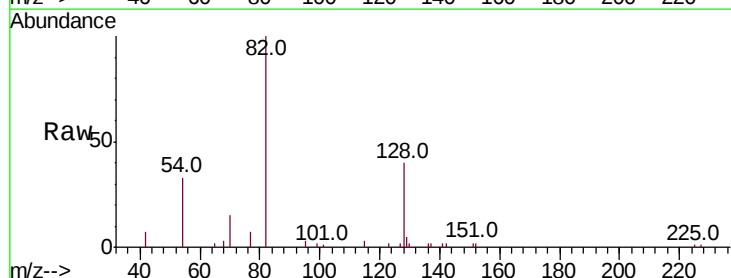
Tgt Ion: 82 Resp: 7570

Ion Ratio Lower Upper

82 100

128 39.8 41.3 61.9#

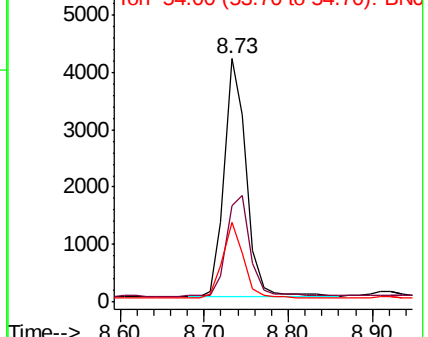
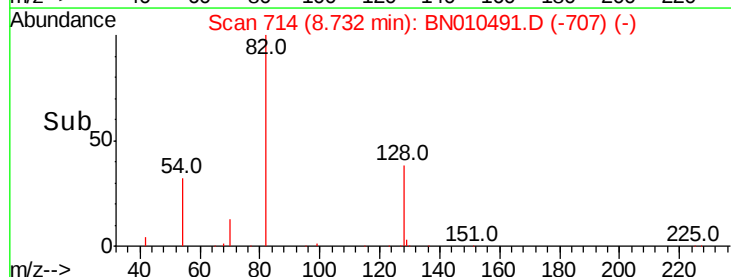
54 32.8 23.4 35.0

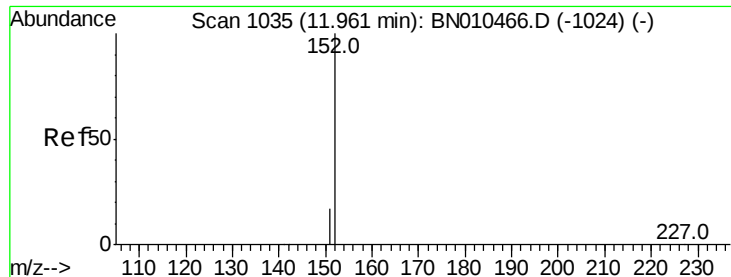


Abundance Ion 82.00 (81.70 to 82.70): BNC

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BNC

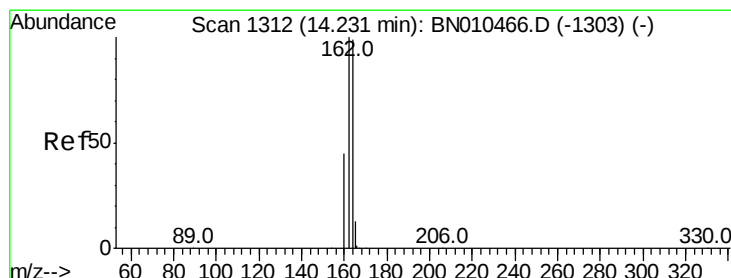
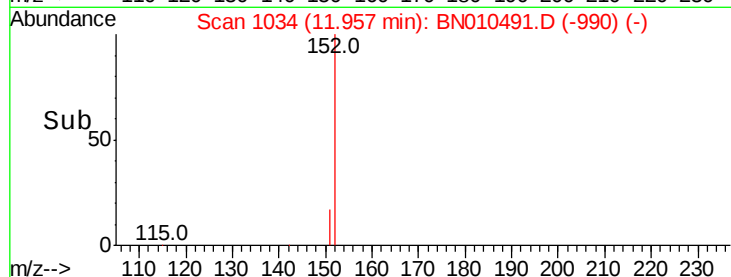
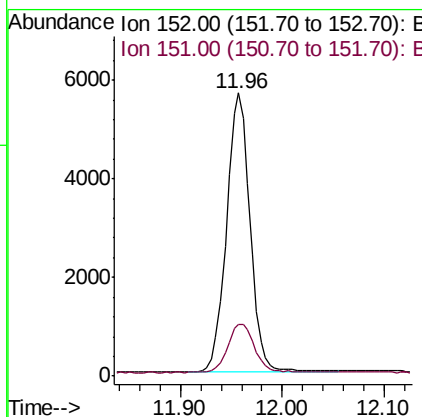
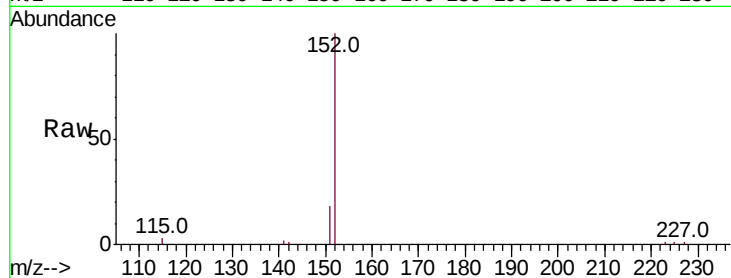




#11
2-Methylnaphthalene-d10
Concen: 0.404 ng
RT: 11.96 min Scan# 1034
Delta R.T. -0.00 min
Lab File: BN010491.D
Acq: 14 Apr 2020 23:18

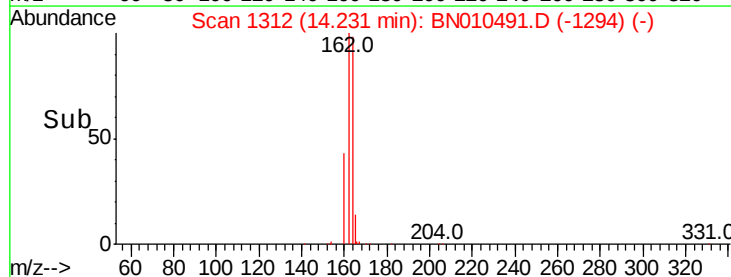
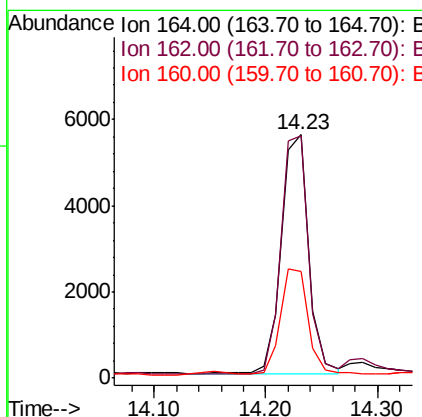
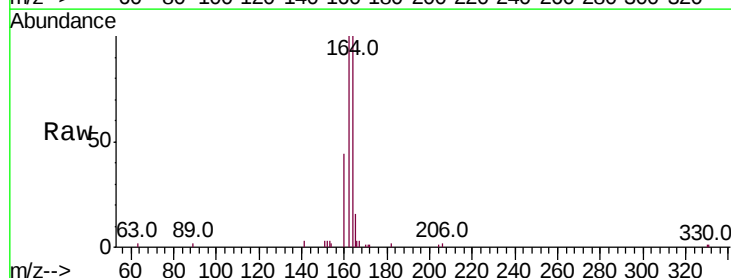
Instrument :
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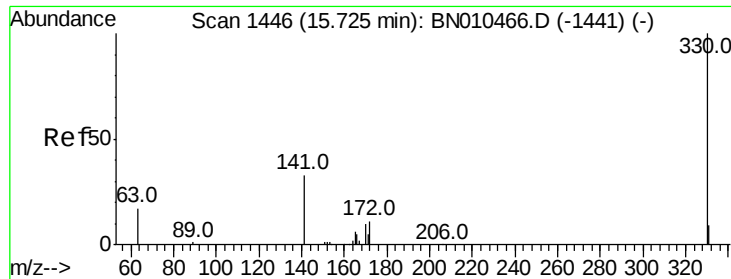
Tot Ion:152 Resp: 9139
Ion Ratio Lower Upper
152 100
151 19.7 15.3 22.9



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.23 min Scan# 1312
Delta R.T. -0.00 min
Lab File: BN010491.D
Acq: 14 Apr 2020 23:18

Tgt Ion:164 Resp: 9477
Ion Ratio Lower Upper
164 100
162 99.8 80.6 121.0
160 43.9 36.5 54.7

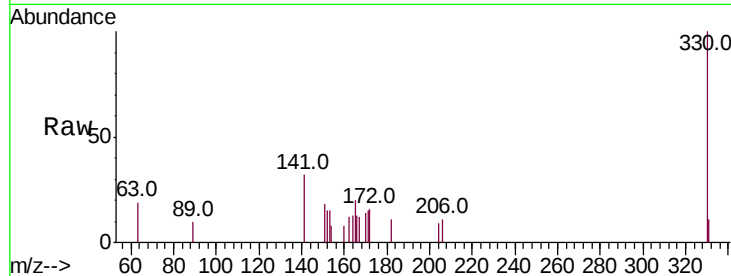




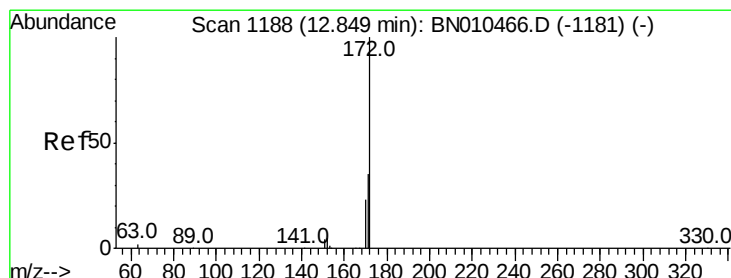
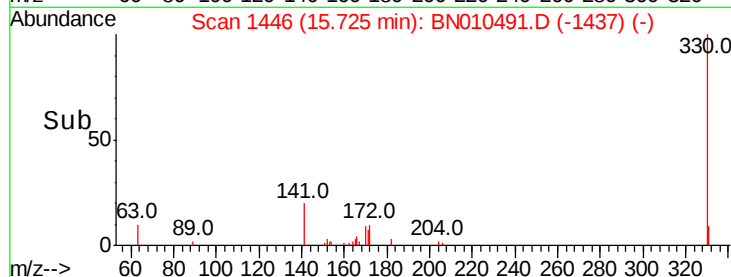
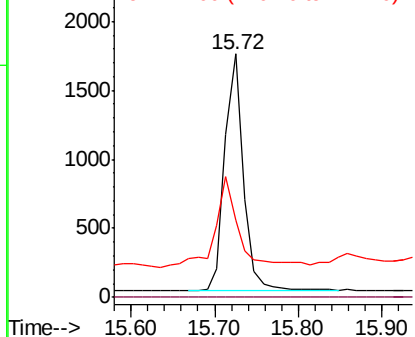
#14
 2,4,6-Tribromophenol
 Concen: 0.594 ng
 RT: 15.72 min Scan# 1446
 Delta R.T. -0.00 min
 Lab File: BN010491.D
 Acq: 14 Apr 2020 23:18

Instrument :
 BNA_N
 ClientSampleId :

Tot Ion:330 Resp: 2652
 Ion Ratio Lower Upper
 330 100
 332 0.0 0.0 0.0
 141 40.7 28.1 42.1

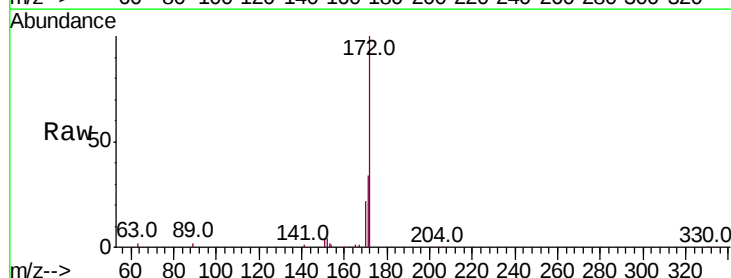


Abundance Ion 330.00 (329.70 to 330.70): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

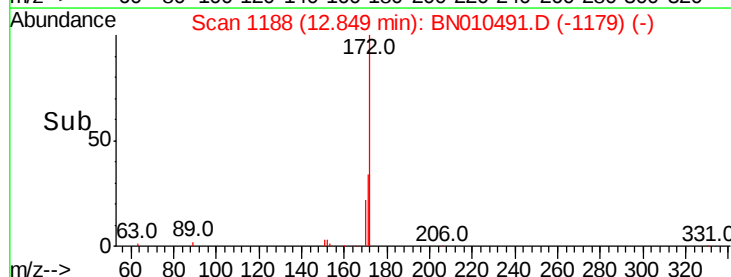
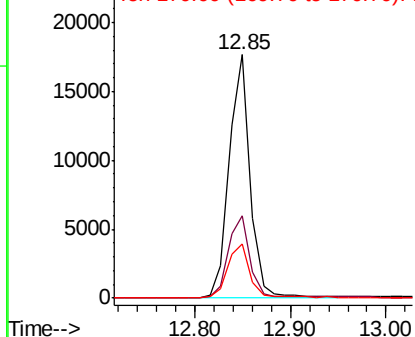


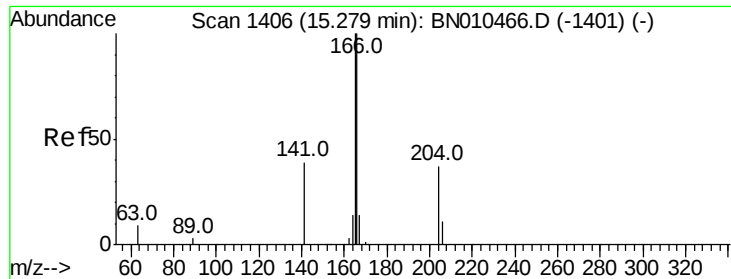
#15
 2-Fluorobiphenyl
 Concen: 0.777 ng
 RT: 12.85 min Scan# 1188
 Delta R.T. -0.00 min
 Lab File: BN010491.D
 Acq: 14 Apr 2020 23:18

Tgt Ion:172 Resp: 26791
 Ion Ratio Lower Upper
 172 100
 171 34.0 28.2 42.2
 170 22.0 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

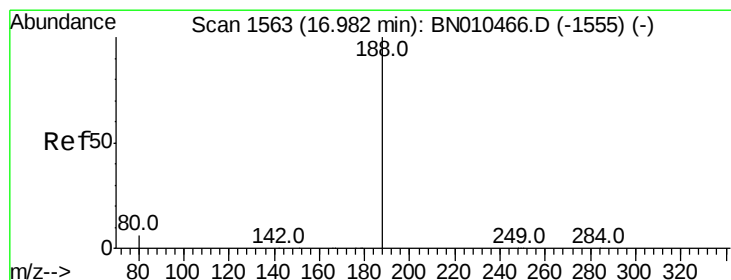
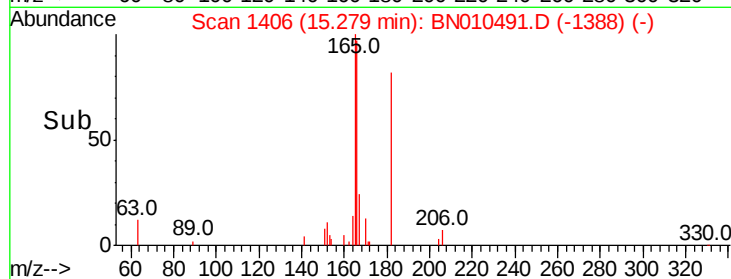
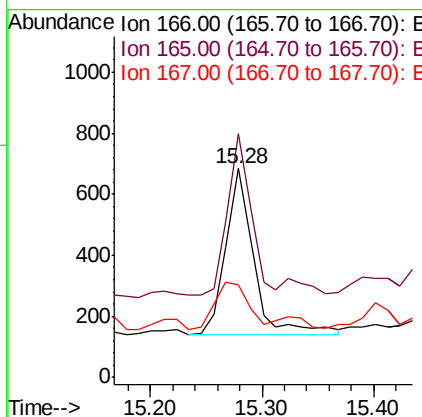
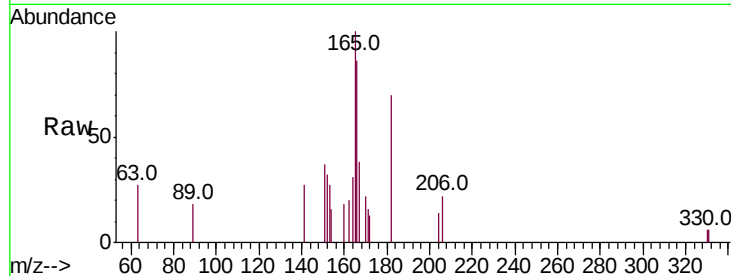




#18
 Fluorene
 Concen: 0.028 ng
 RT: 15.28 min Scan# 1406
 Delta R.T. -0.00 min
 Lab File: BN010491.D
 Acq: 14 Apr 2020 23:18

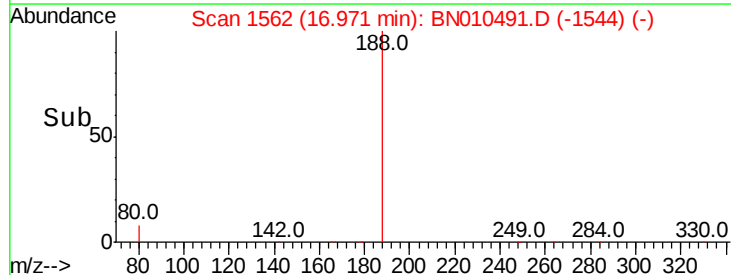
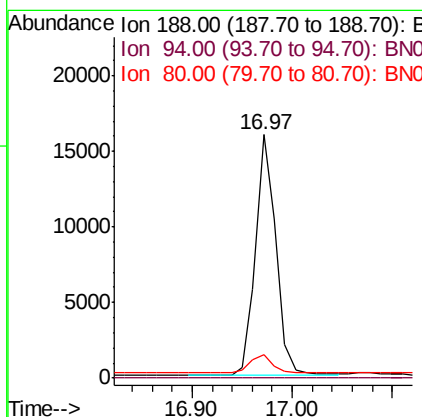
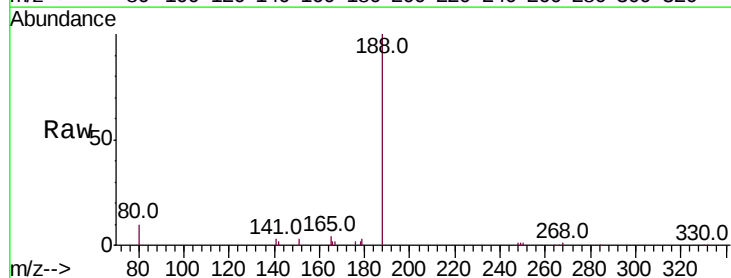
Instrument :
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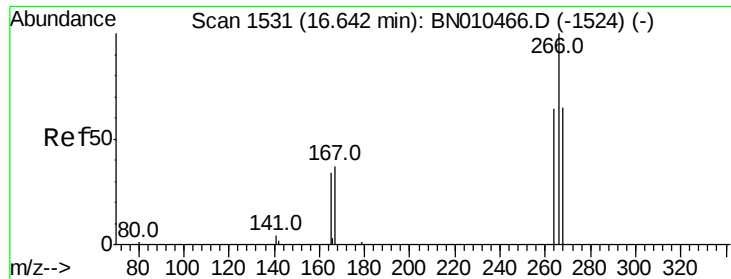
Tot Ion:166 Resp: 964
 Ion Ratio Lower Upper
 166 100
 165 79.4 78.4 117.6
 167 34.6 10.9 16.3#



#19
 Phenanthrene-d10
 Concen: 0.400 ng
 RT: 16.97 min Scan# 1562
 Delta R.T. -0.01 min
 Lab File: BN010491.D
 Acq: 14 Apr 2020 23:18

Tgt Ion:188 Resp: 22674
 Ion Ratio Lower Upper
 188 100
 94 0.0 0.0 0.0
 80 9.8 5.0 7.6#





#22

Pentachlorophenol

Concen: 0.021 ng

RT: 16.63 min Scan# 1530

Delta R.T. -0.01 min

Lab File: BN010491.D

Acq: 14 Apr 2020 23:18

Instrument :

BNA_N

ClientSampled :

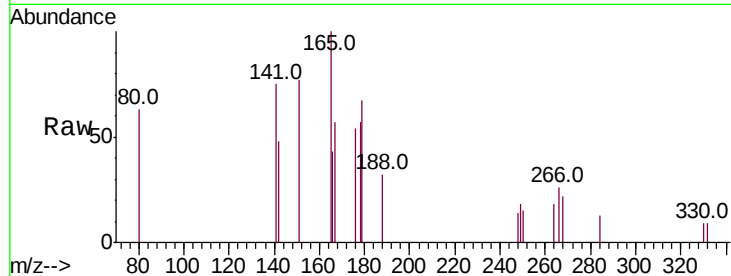
Tot Ion:266 Resp: 119

Ion Ratio Lower Upper

266 100

264 69.2 51.8 77.6

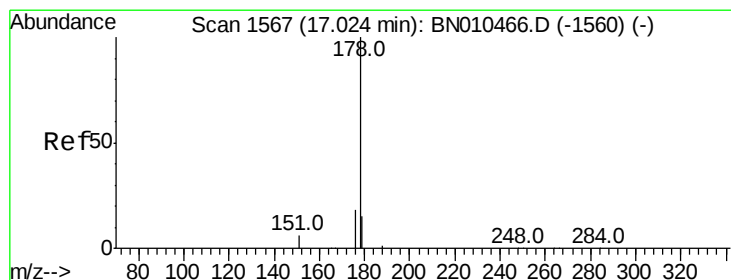
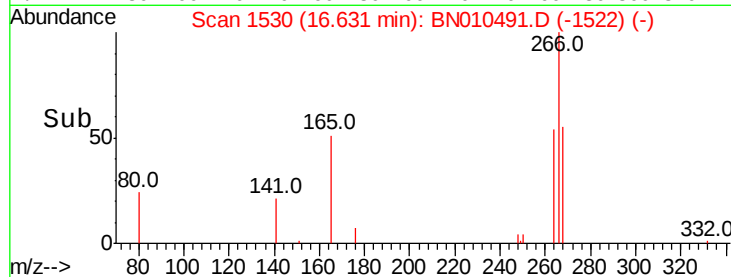
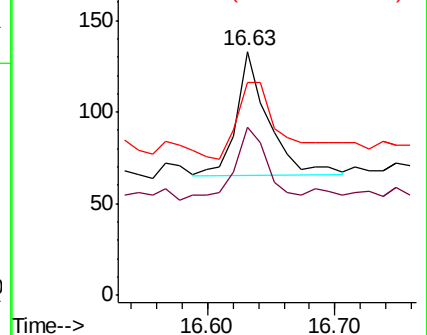
268 87.2 53.7 80.5#



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: 0.089 ng

RT: 17.01 min Scan# 1566

Delta R.T. -0.01 min

Lab File: BN010491.D

Acq: 14 Apr 2020 23:18

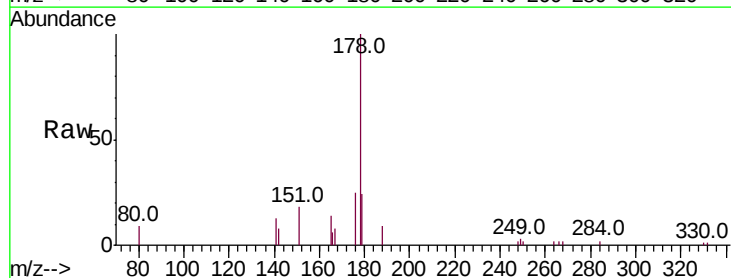
Tgt Ion:178 Resp: 5423

Ion Ratio Lower Upper

178 100

176 19.9 15.0 22.4

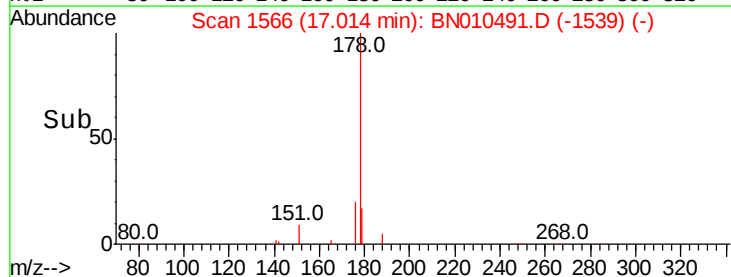
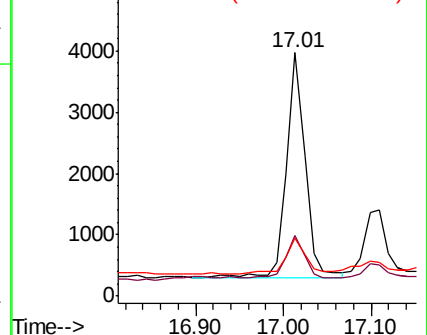
179 17.8 12.6 18.8

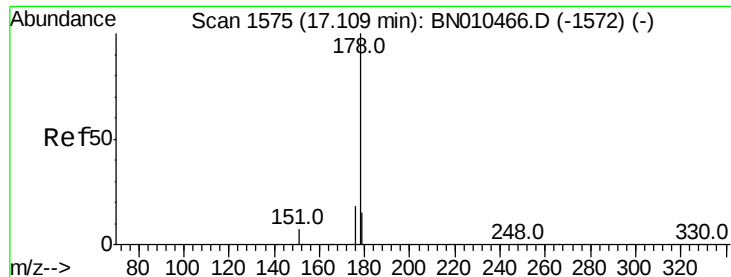


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

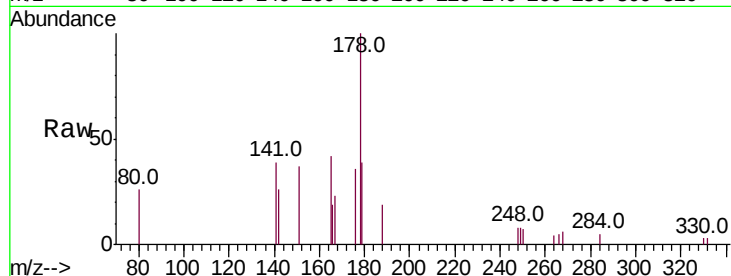




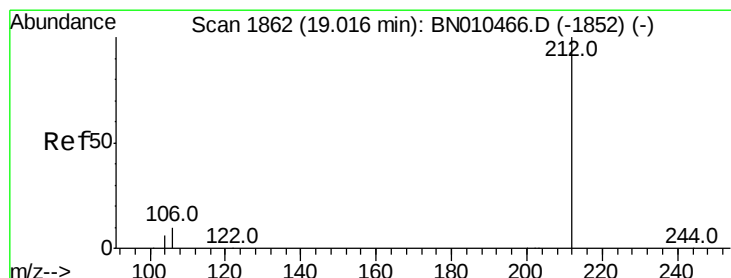
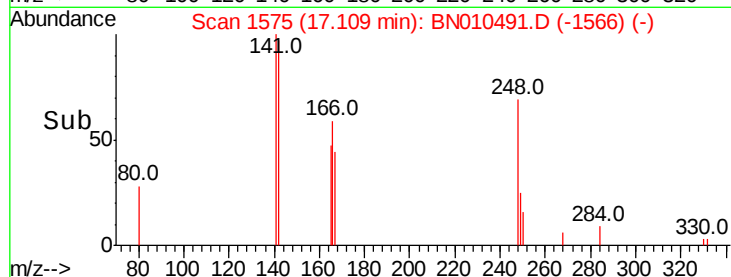
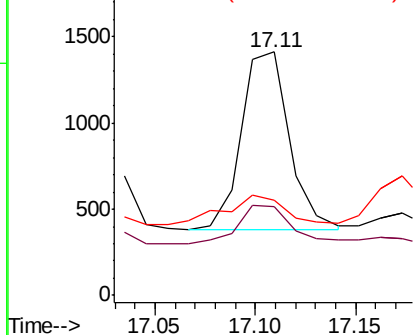
#24
 Anthracene
 Concen: 0.030 ng
 RT: 17.11 min Scan# 1575
 Delta R.T. -0.00 min
 Lab File: BN010491.D
 Acq: 14 Apr 2020 23:18

Instrument :
 BNA_N
 ClientSampleId :

Tot Ion:178 Resp: 1704
 Ion Ratio Lower Upper
 178 100
 176 25.1 14.6 21.8#
 179 20.5 12.2 18.2#

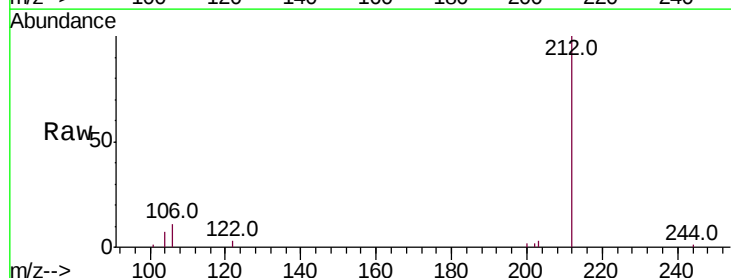


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

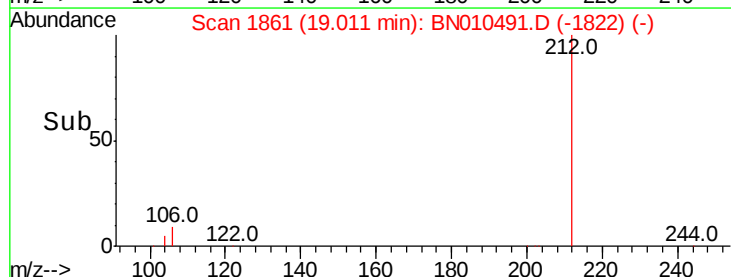
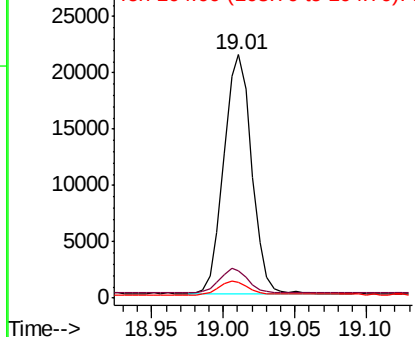


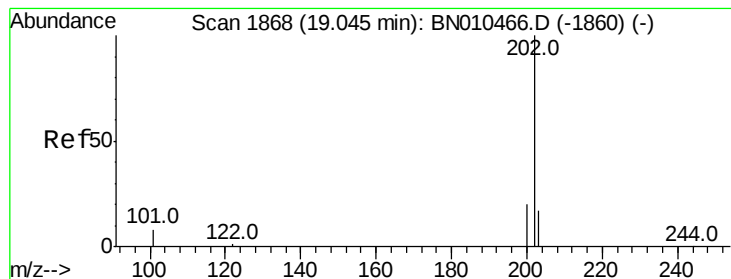
#25
 Fluoranthene-d10
 Concen: 0.416 ng
 RT: 19.01 min Scan# 1861
 Delta R.T. -0.00 min
 Lab File: BN010491.D
 Acq: 14 Apr 2020 23:18

Tgt Ion:212 Resp: 28590
 Ion Ratio Lower Upper
 212 100
 106 10.3 7.8 11.6
 104 5.9 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: 0.102 ng

RT: 19.04 min Scan# 1867

Delta R.T. -0.00 min

Lab File: BN010491.D

Acq: 14 Apr 2020 23:18

Instrument :

BNA_N

ClientSampleId :

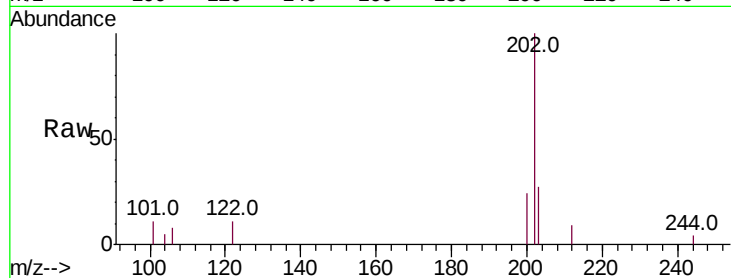
Tot Ion:202 Resp: 7786

Ion Ratio Lower Upper

202 100

101 8.7 6.9 10.3

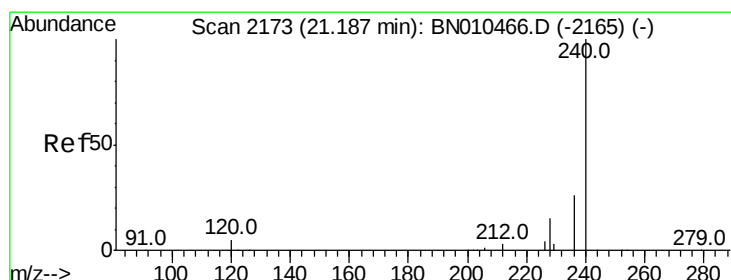
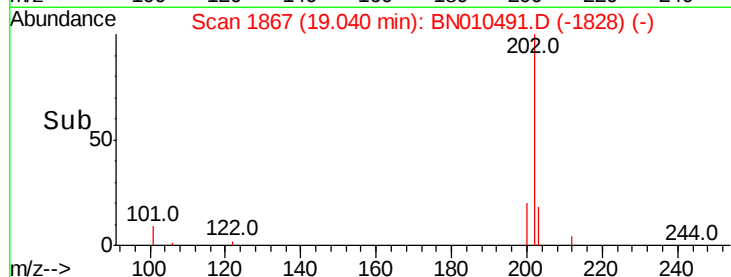
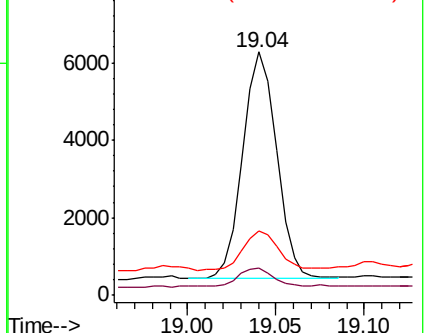
203 18.2 13.9 20.9



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.18 min Scan# 2172

Delta R.T. -0.01 min

Lab File: BN010491.D

Acq: 14 Apr 2020 23:18

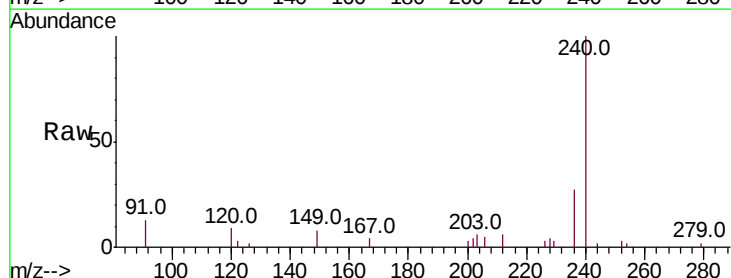
Tgt Ion:240 Resp: 23967

Ion Ratio Lower Upper

240 100

120 8.8 4.8 7.2#

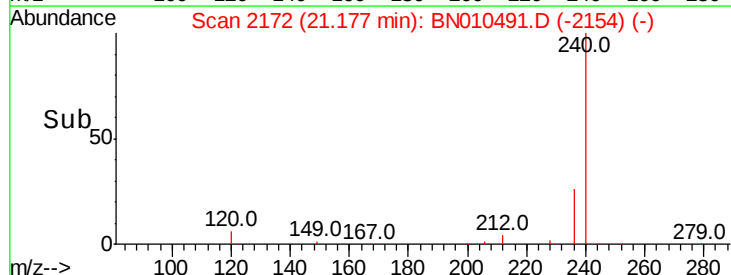
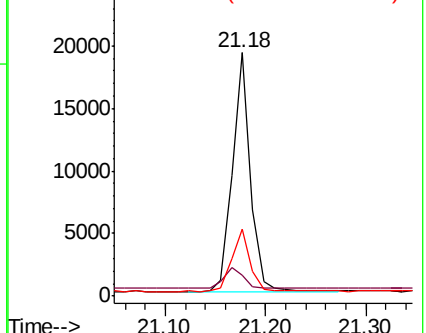
236 27.5 21.4 32.0

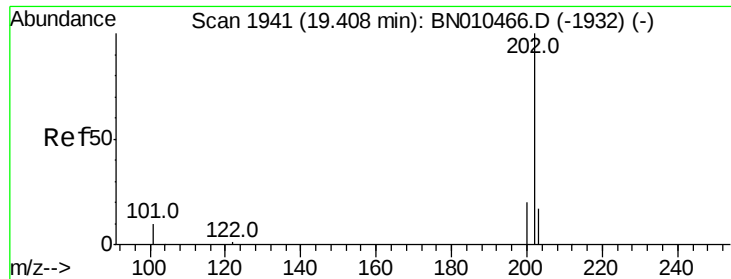


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

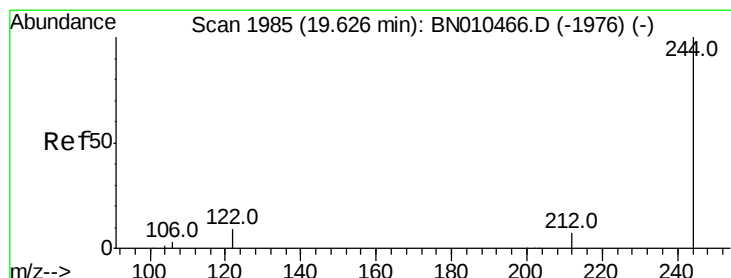
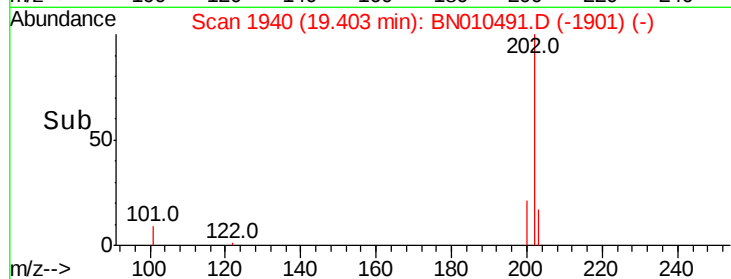
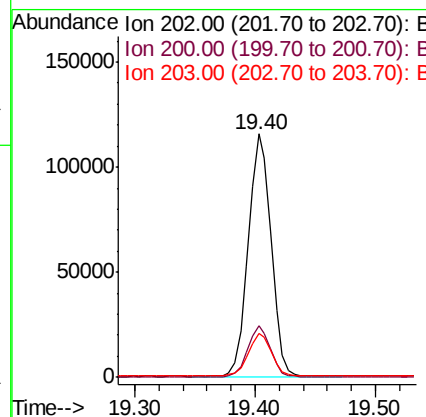
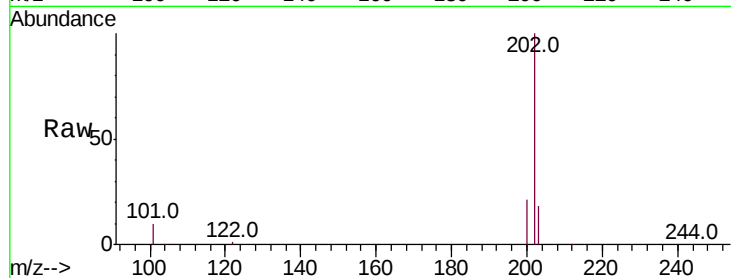




#28
Pvrene
Concen: 1.878 ng
RT: 19.40 min Scan# 1940
Delta R.T. -0.00 min
Lab File: BN010491.D
Acq: 14 Apr 2020 23:18

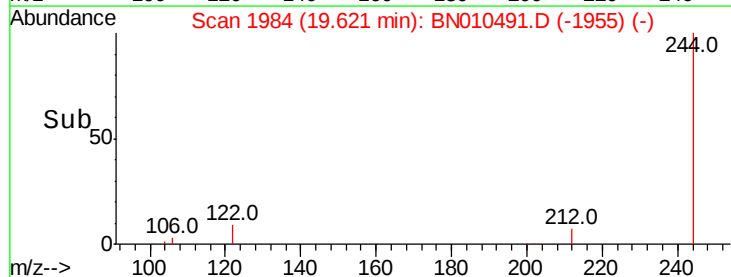
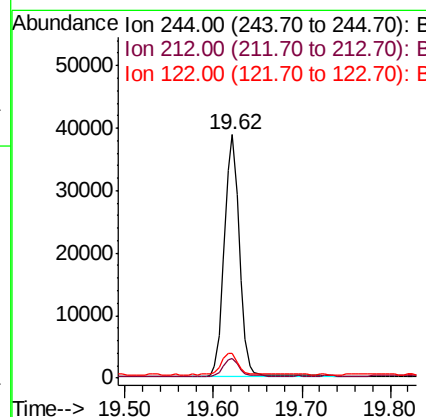
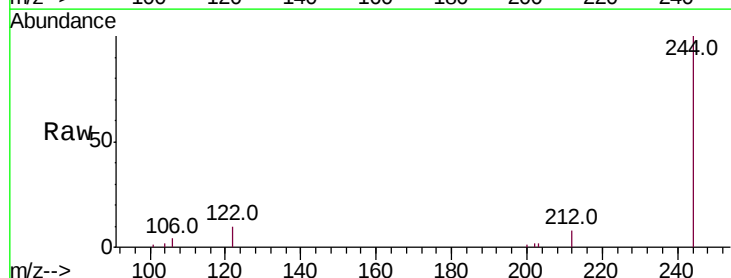
Instrument :
BNA_N
ClientSampleId :

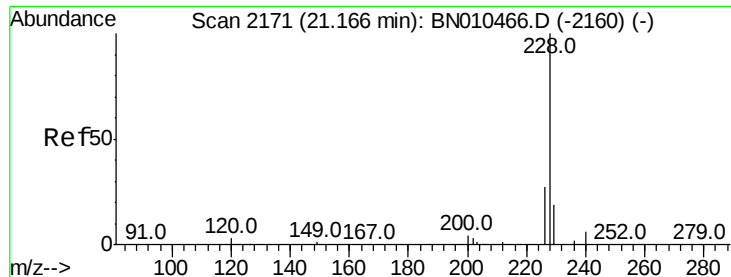
Tot Ion:202 Resp: 151517
Ion Ratio Lower Upper
202 100
200 20.5 16.3 24.5
203 17.5 14.0 21.0



#29
Terphenyl-d14
Concen: 0.837 ng
RT: 19.62 min Scan# 1984
Delta R.T. -0.00 min
Lab File: BN010491.D
Acq: 14 Apr 2020 23:18

Tgt Ion:244 Resp: 45900
Ion Ratio Lower Upper
244 100
212 8.1 6.2 9.4
122 10.2 7.8 11.8





#30

Benzo(a)anthracene

Concen: 0.027 ng

RT: 21.16 min Scan# 2170

Delta R.T. -0.01 min

Lab File: BN010491.D

Acq: 14 Apr 2020 23:18

Instrument :

BNA_N

ClientSampleId :

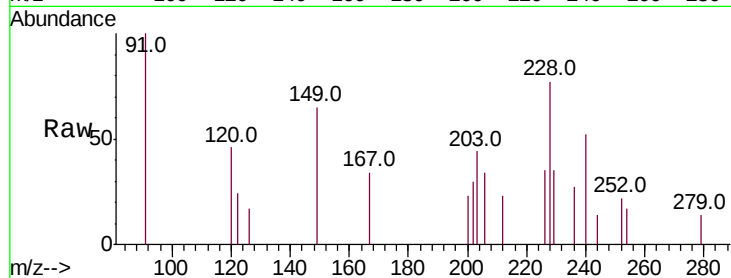
Tot Ion:228 Resp: 2148

Ion Ratio Lower Upper

228 100

226 45.0 21.7 32.5#

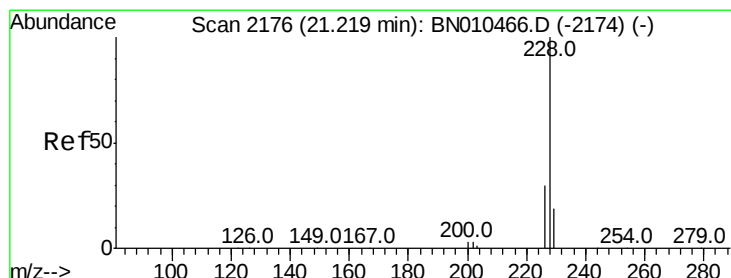
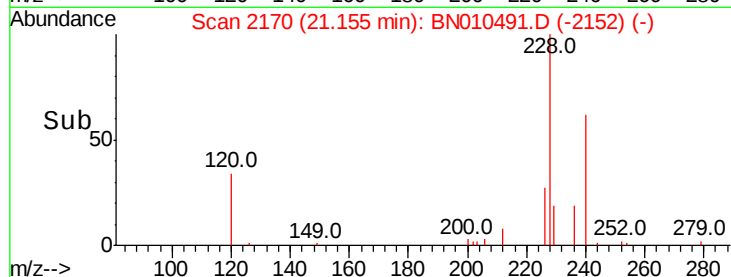
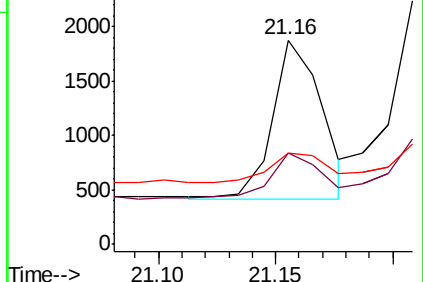
229 45.0 15.6 23.4#



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: 0.035 ng

RT: 21.21 min Scan# 2175

Delta R.T. -0.01 min

Lab File: BN010491.D

Acq: 14 Apr 2020 23:18

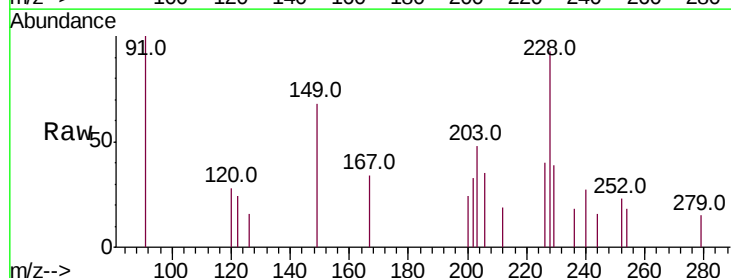
Tgt Ion:228 Resp: 2695

Ion Ratio Lower Upper

228 100

226 43.0 24.0 36.0#

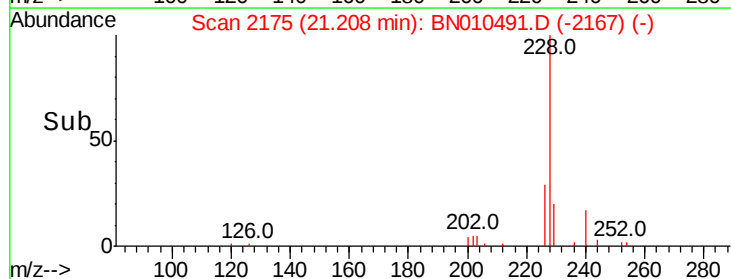
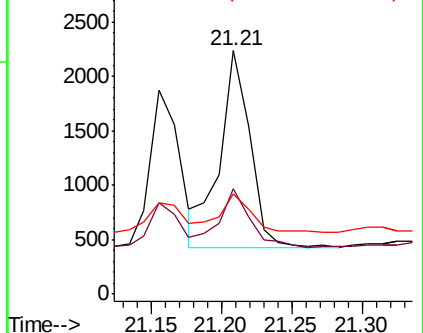
229 41.4 15.8 23.6#

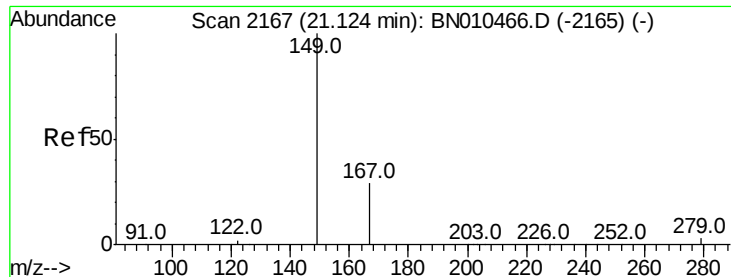


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#32

Bis(2-ethylhexyl)phthalate

Concen: 0.066 ng

RT: 21.11 min Scan# 2166

Delta R.T. -0.01 min

Lab File: BN010491.D

Acq: 14 Apr 2020 23:18

Instrument :

BNA_N

ClientSampleId :

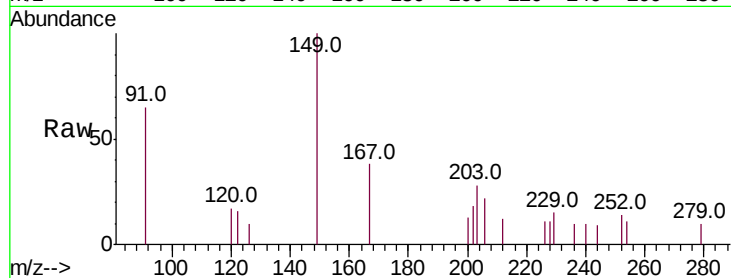
Tot Ion:149 Resp: 2666

Ion Ratio Lower Upper

149 100

167 25.7 23.4 35.0

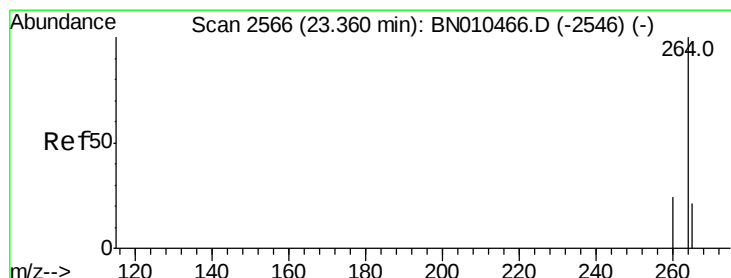
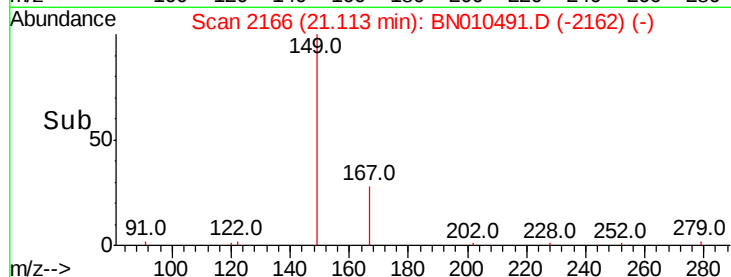
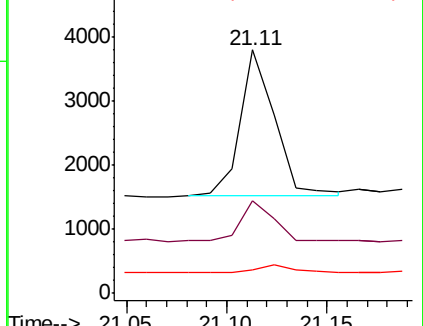
279 6.8 4.0 6.0#



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# 2562

Delta R.T. -0.01 min

Lab File: BN010491.D

Acq: 14 Apr 2020 23:18

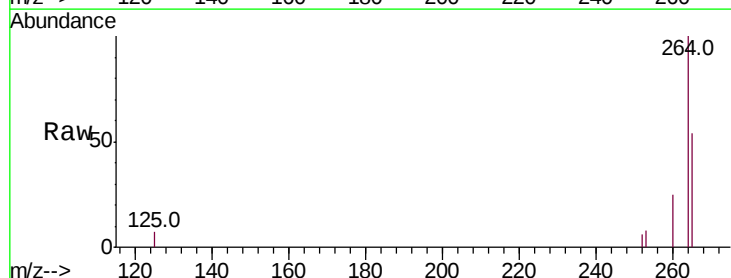
Tgt Ion:264 Resp: 21873

Ion Ratio Lower Upper

264 100

260 24.7 19.8 29.8

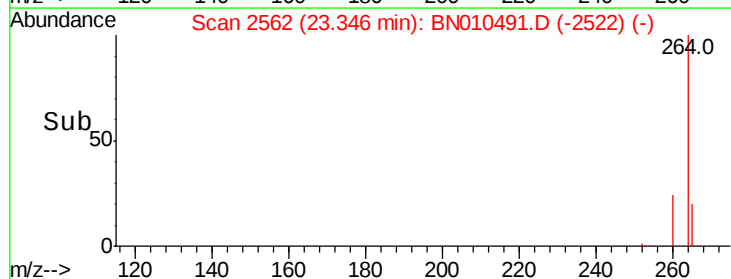
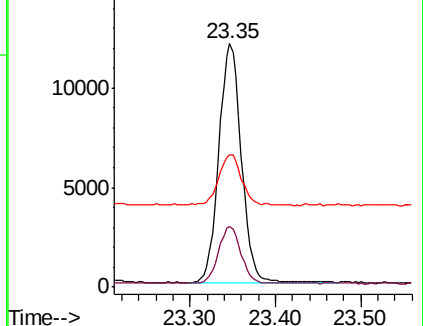
265 54.1 42.3 63.5

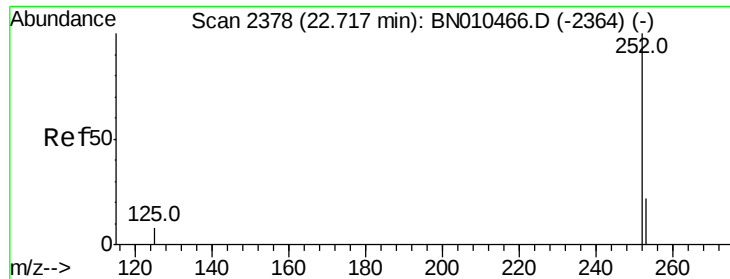


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#35

Benzo(b)fluoranthene

Concen: 0.024 ng

RT: 22.70 min Scan# 2374

Delta R.T. -0.01 min

Lab File: BN010491.D

Acq: 14 Apr 2020 23:18

Instrument :

BNA_N

ClientSampleId :

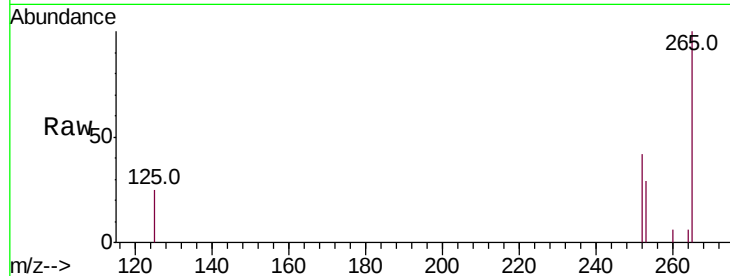
Tot Ion:252 Resp: 1726

Ion Ratio Lower Upper

252 100

253 70.1 20.2 30.4#

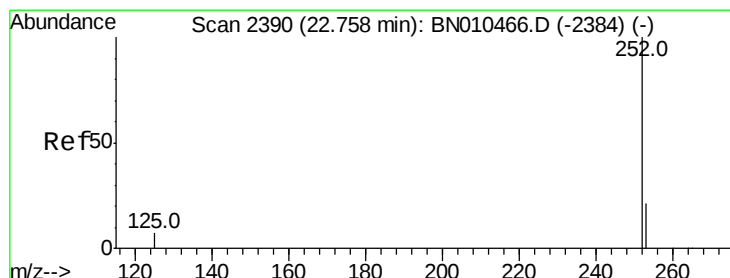
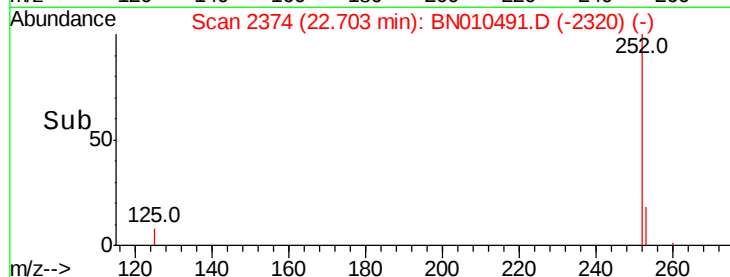
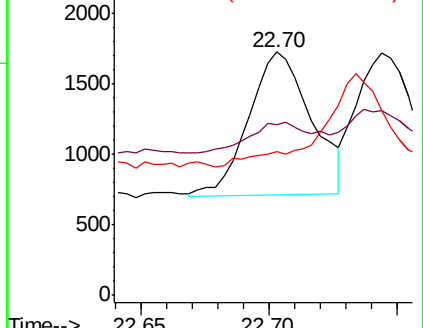
125 58.8 9.2 13.8#



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: 0.022 ng

RT: 22.74 min Scan# 2386

Delta R.T. -0.01 min

Lab File: BN010491.D

Acq: 14 Apr 2020 23:18

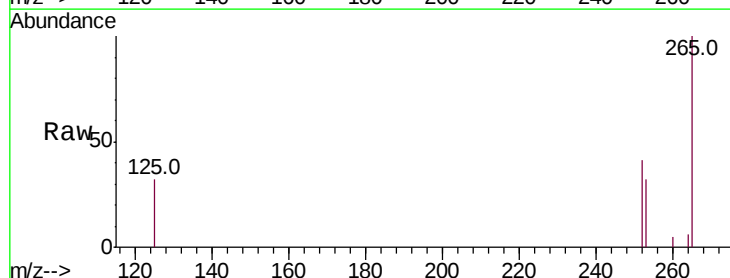
Tgt Ion:252 Resp: 1566

Ion Ratio Lower Upper

252 100

253 76.5 20.1 30.1#

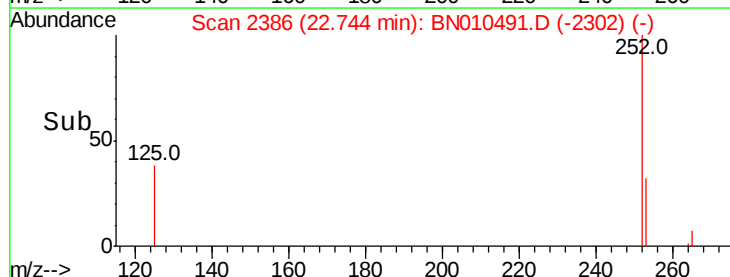
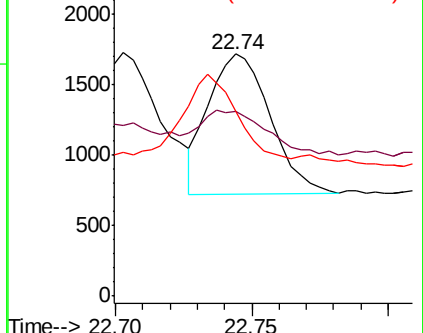
125 76.7 9.6 14.4#

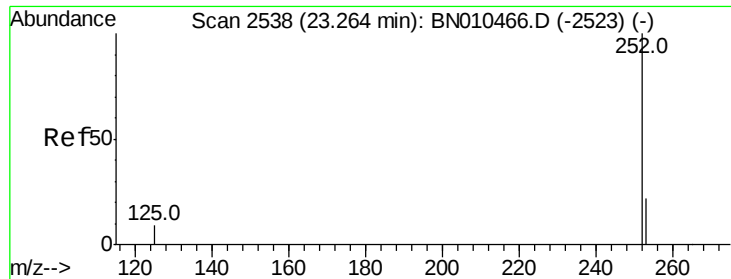


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#37

Benzo(a)pyrene

Concen: 0.024 ng

RT: 23.25 min Scan# 2534

Delta R.T. -0.01 min

Lab File: BN010491.D

Acq: 14 Apr 2020 23:18

Instrument :

BNA_N

ClientSampleId :

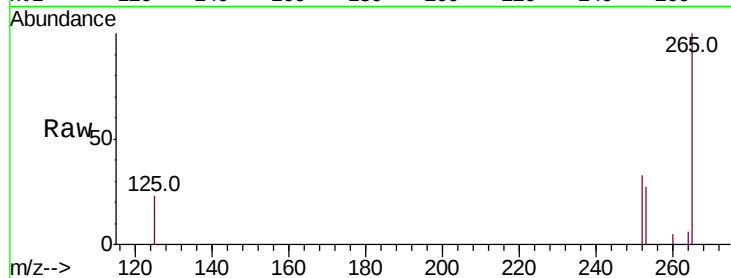
Tot Ion:252 Resp: 1505

Ion Ratio Lower Upper

252 100

253 83.3 21.8 32.8#

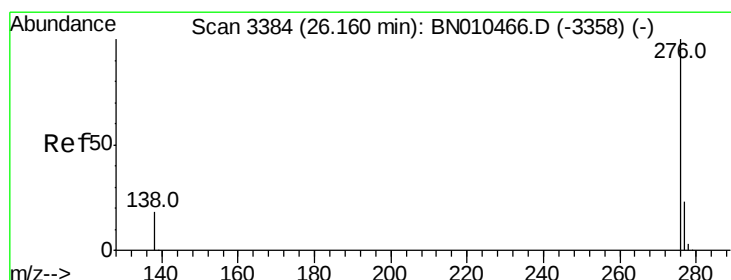
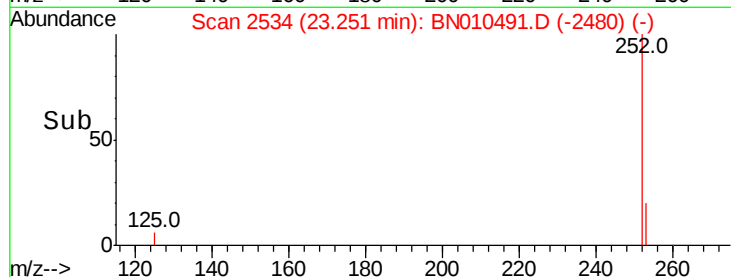
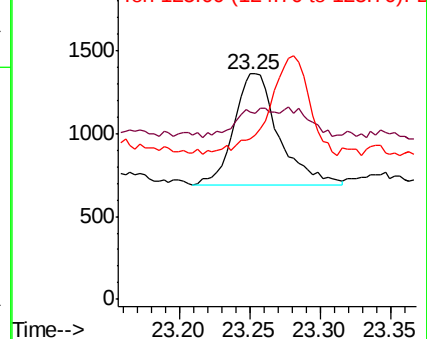
125 71.0 11.0 16.6#



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: 0.025 ng

RT: 26.14 min Scan# 3378

Delta R.T. -0.02 min

Lab File: BN010491.D

Acq: 14 Apr 2020 23:18

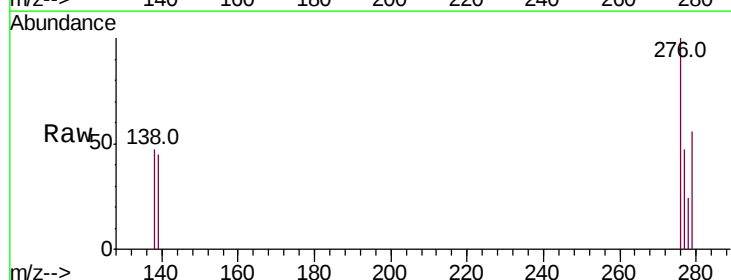
Tgt Ion:276 Resp: 1440

Ion Ratio Lower Upper

276 100

277 47.3 20.2 30.2#

138 47.0 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

