

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN041420\
 Data File : BN010492.D
 Acq On : 14 Apr 2020 23:54
 Operator : CG/JU
 Sample : L2178-07
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
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Quant Time: Apr 15 00:27:05 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	3717	0.40	ng	0.00
7) Naphthalene-d8	10.37	136	15441	0.40	ng	0.00
13) Acenaphthene-d10	14.22	164	10316	0.40	ng	0.00
19) Phenanthrene-d10	16.97	188	23629	0.40	ng	0.00
27) Chrysene-d12	21.17	240	24153	0.40	ng	-0.01
34) Perylene-d12	23.34	264	21445	0.40	ng	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.25	112	1582	0.19	ng	0.00
5) Phenol-d6	6.79	99	1279	0.12	ng	0.00
8) Nitrobenzene-d5	8.73	82	8135	0.75	ng	-0.01
11) 2-Methylnaphthalene-d10	11.96	152	9921	0.39	ng	0.00
14) 2,4,6-Tribromophenol	15.73	330	1873	0.39	ng	0.00
15) 2-Fluorobiphenyl	12.84	172	28067	0.75	ng	0.00
25) Fluoranthene-d10	19.01	212	29951	0.42	ng	0.00
29) Terphenyl-d14	19.62	244	41553	0.75	ng	0.00

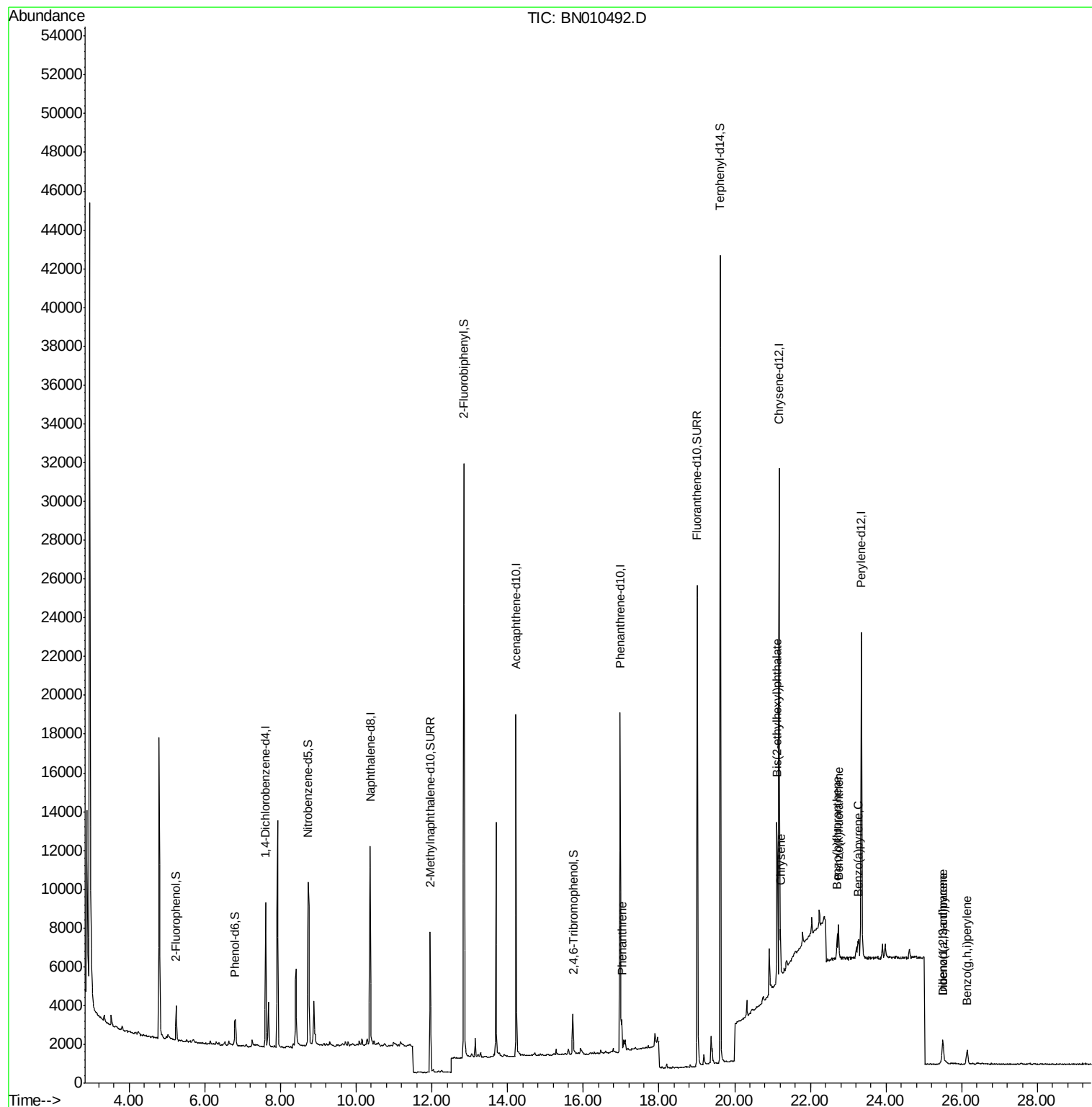
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
23) Phenanthrene	17.02	178	1480	0.023	ng	# 96
31) Chrysene	21.21	228	1857	0.024	ng	# 87
32) Bis(2-ethylhexyl)phthalate	21.11	149	7789	0.193	ng	# 99
33) Indeno(1,2,3-cd)pyrene	25.49	276	1485	0.021	ng	# 88
35) Benzo(b)fluoranthene	22.70	252	1572	0.022	ng	# 16
36) Benzo(k)fluoranthene	22.75	252	1566	0.022	ng	# 1
37) Benzo(a)pyrene	23.26	252	1253	0.020	ng	# 1
38) Dibenzo(a,h)anthracene	25.50	278	1227	0.021	ng	# 14
39) Benzo(a,h,i)perylene	26.14	276	1528	0.027	ng	# 59

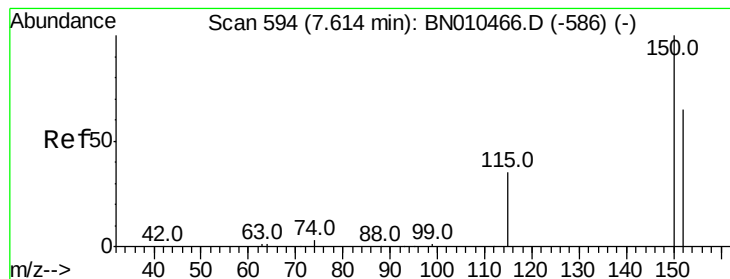
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BN010492.D

Acq: 14 Apr 2020 23:54

Instrument :

BNA_N

ClientSampleId :

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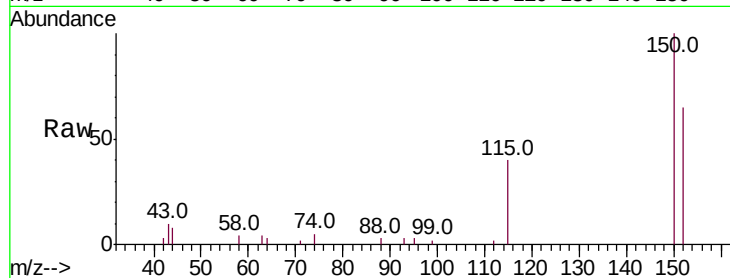
Tot Ion:152 Resp: 3717

Ion Ratio Lower Upper

152 100

150 153.2 121.8 182.6

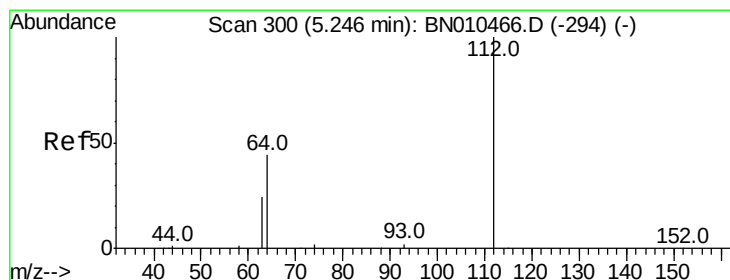
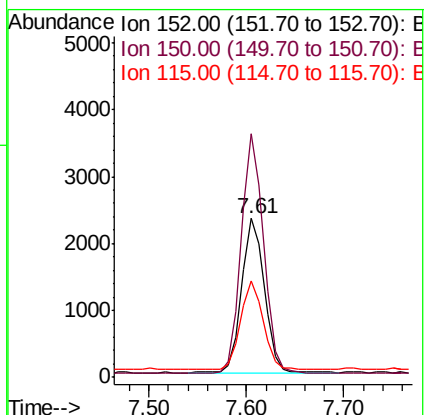
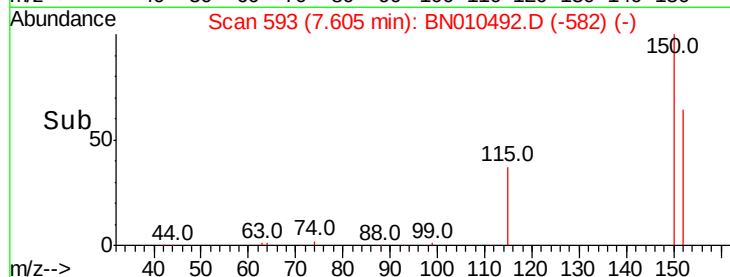
115 60.6 45.5 68.3



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: 0.194 ng

RT: 5.25 min Scan# 300

Delta R.T. -0.00 min

Lab File: BN010492.D

Acq: 14 Apr 2020 23:54

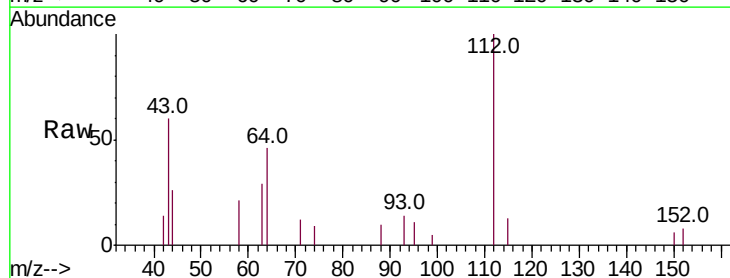
Tgt Ion:112 Resp: 1582

Ion Ratio Lower Upper

112 100

64 46.0 35.8 53.8

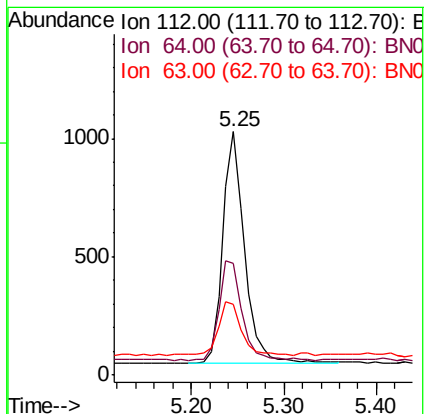
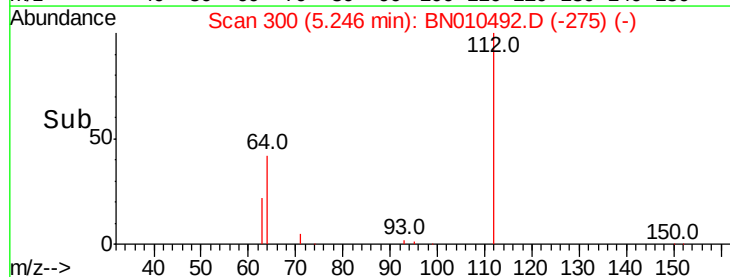
63 25.2 19.9 29.9

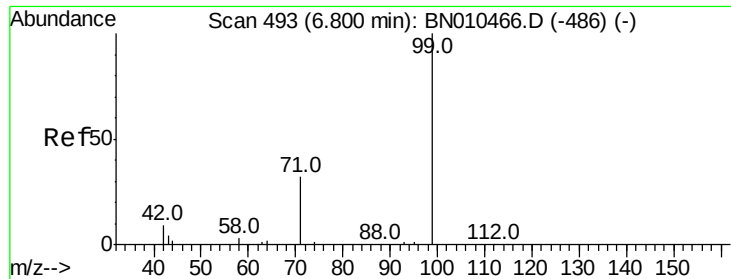


Abundance Ion 112.00 (111.70 to 112.70): E

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: BN010492.D

Acq: 14 Apr 2020 23:54

Instrument :

BNA_N

ClientSampleId :

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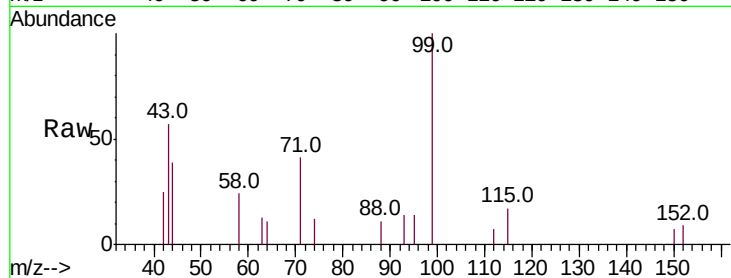
Tot Ion: 99 Resp: 1279

Ion Ratio Lower Upper

99 100

42 15.6 9.8 14.6#

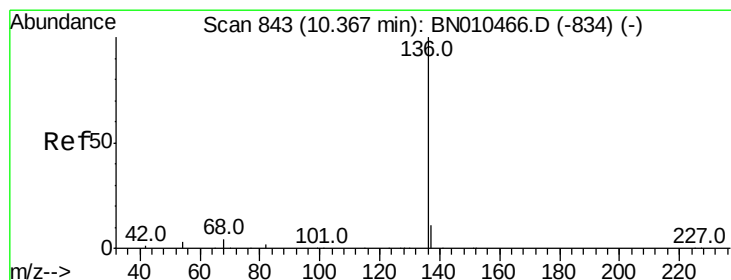
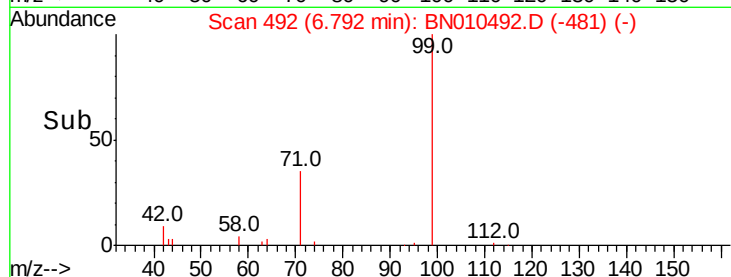
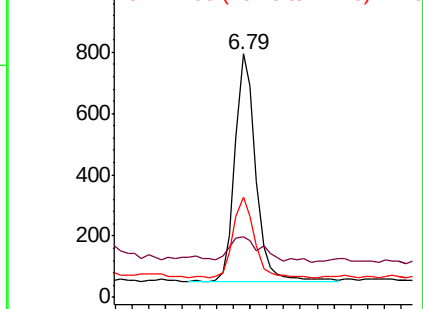
71 35.7 27.8 41.8



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: BN010492.D

Acq: 14 Apr 2020 23:54

Tgt Ion: 136 Resp: 15441

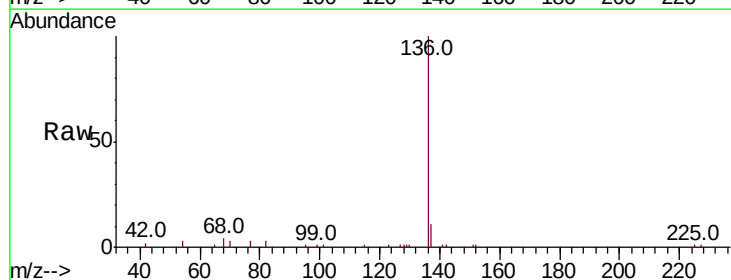
Ion Ratio Lower Upper

136 100

137 11.4 8.9 13.3

54 3.0 2.6 4.0

68 3.9 3.4 5.2

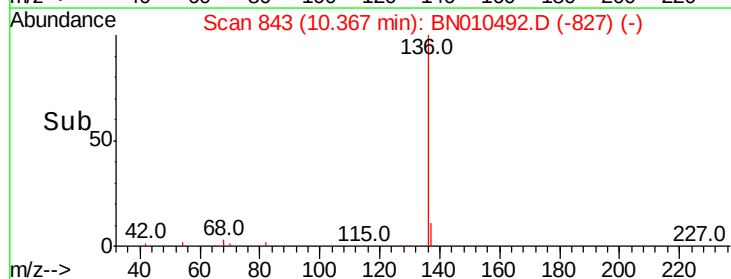
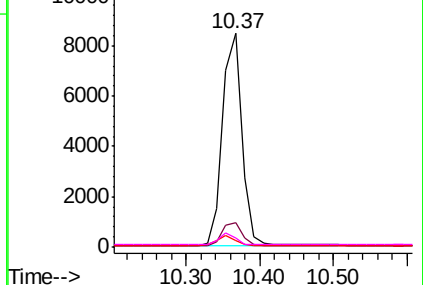


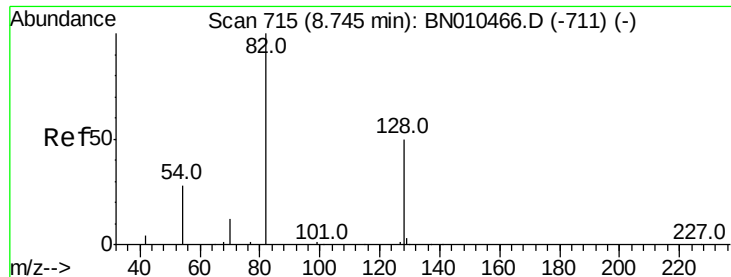
Abundance Ion 136.00 (135.70 to 136.70): BN010466.D (-834) (-)

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) (-)

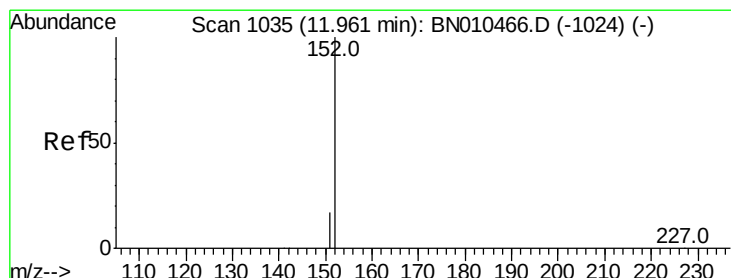
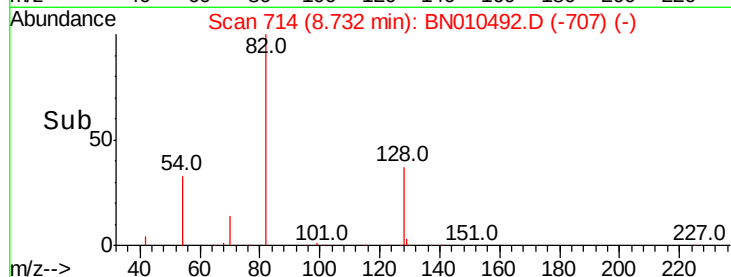
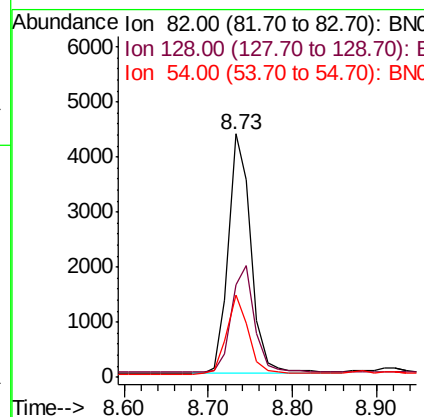
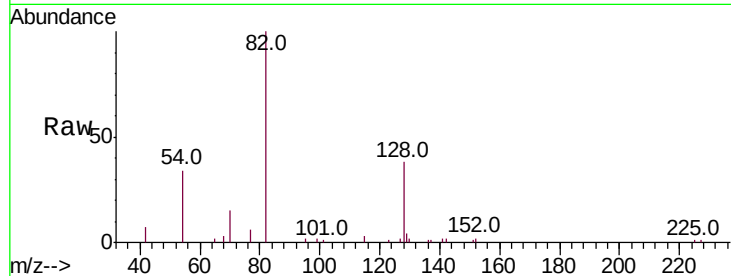




#8
 Nitrobenzene-d5
 Concen: 0.754 ng
 RT: 8.73 min Scan# 714
 Delta R.T. -0.01 min
 Lab File: BN010492.D
 Acq: 14 Apr 2020 23:54

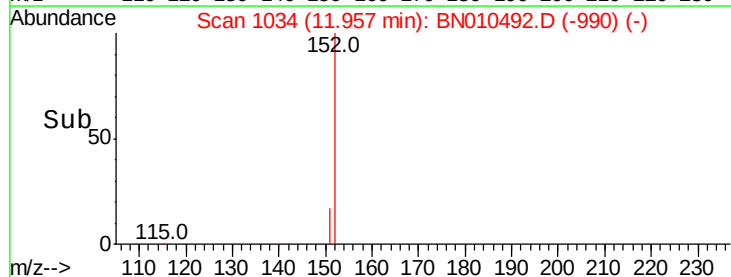
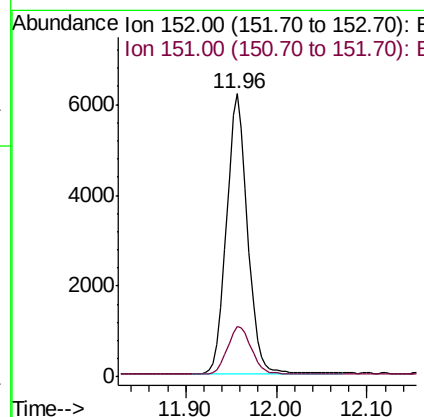
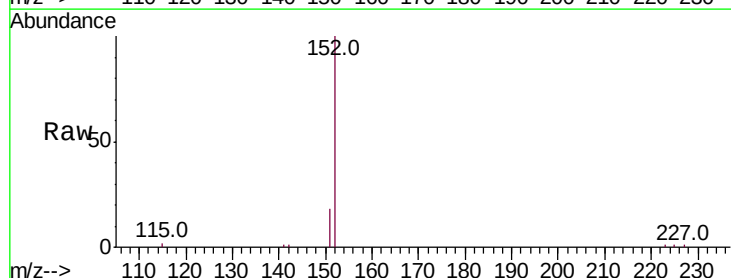
Instrument :
 BNA_N
 ClientSampleId :
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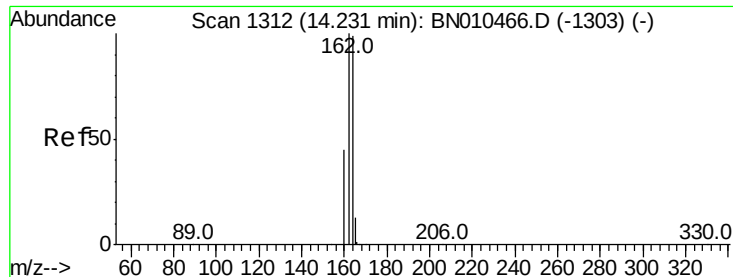
Tot Ion	82	Resp	8135
Ion Ratio	Lower	Upper	
82	100		
128	38.2	41.3	61.9#
54	33.8	23.4	35.0



#11
 2-Methylnaphthalene-d10
 Concen: 0.391 ng
 RT: 11.96 min Scan# 1034
 Delta R.T. -0.00 min
 Lab File: BN010492.D
 Acq: 14 Apr 2020 23:54

Tgt Ion	152	Resp	9921
Ion Ratio	Lower	Upper	
152	100		
151	19.4	15.3	22.9





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.22 min Scan# 1312

Delta R.T. -0.01 min

Lab File: BN010492.D

Acq: 14 Apr 2020 23:54

Instrument :

BNA_N

ClientSampleId :

FIELD-BLANK

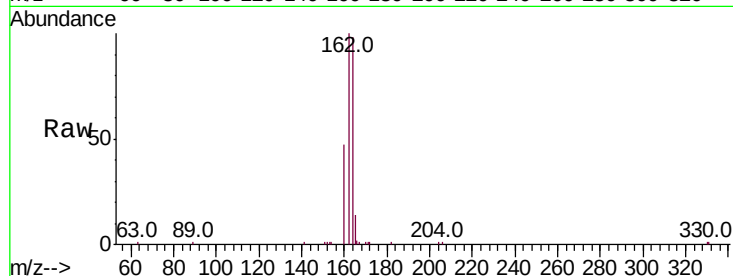
Tot Ion:164 Resp: 10316

Ion Ratio Lower Upper

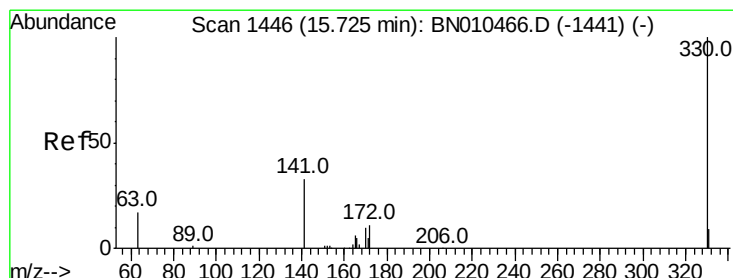
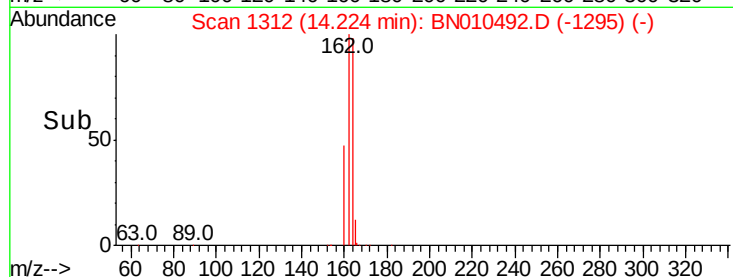
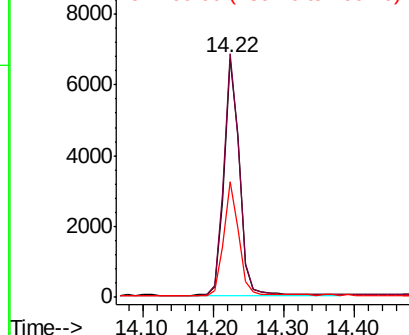
164 100

162 102.0 80.6 121.0

160 48.3 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: 0.385 ng

RT: 15.73 min Scan# 1447

Delta R.T. 0.00 min

Lab File: BN010492.D

Acq: 14 Apr 2020 23:54

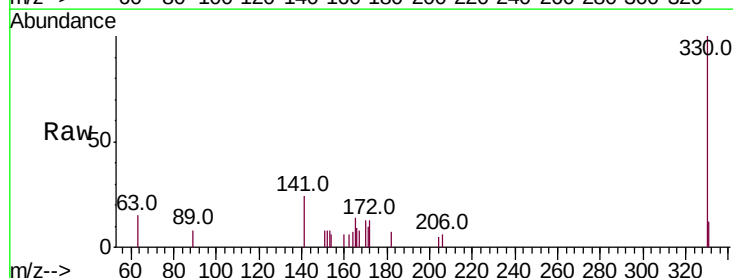
Tgt Ion:330 Resp: 1873

Ion Ratio Lower Upper

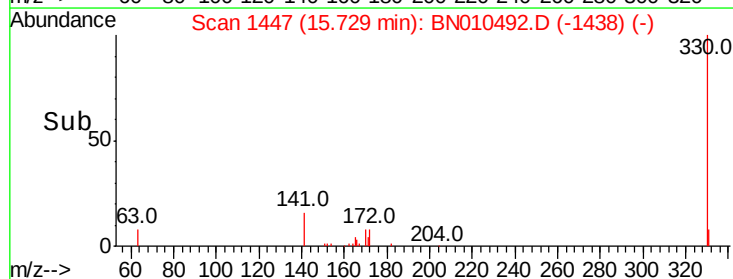
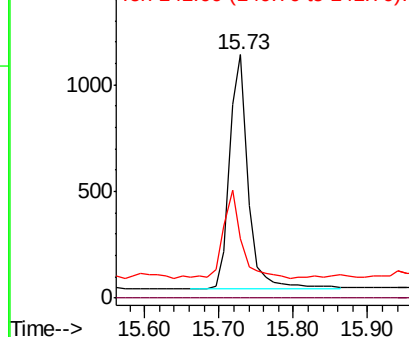
330 100

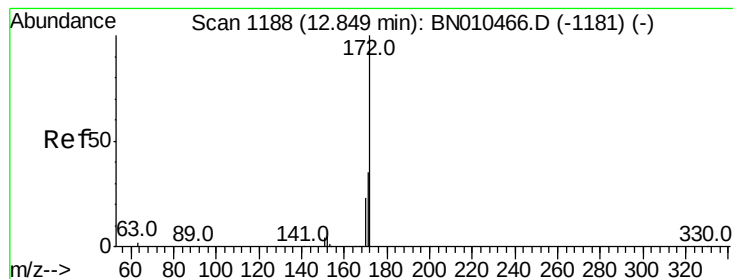
332 0.0 0.0 0.0

141 38.2 28.1 42.1



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





#15

2-Fluorobiphenyl

Concen: 0.748 ng

RT: 12.84 min Scan# 1188

Delta R.T. -0.01 min

Lab File: BN010492.D

Acq: 14 Apr 2020 23:54

Instrument :

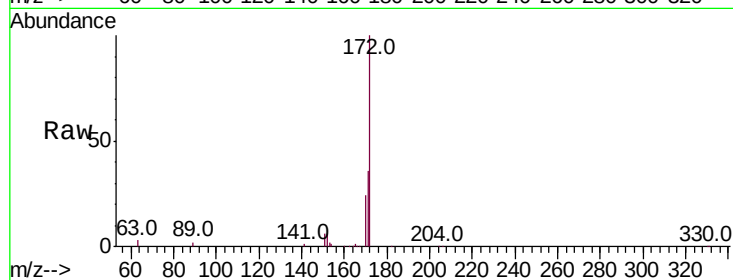
BNA_N

ClientSampleId :

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Tot Ion:172 Resp: 28067

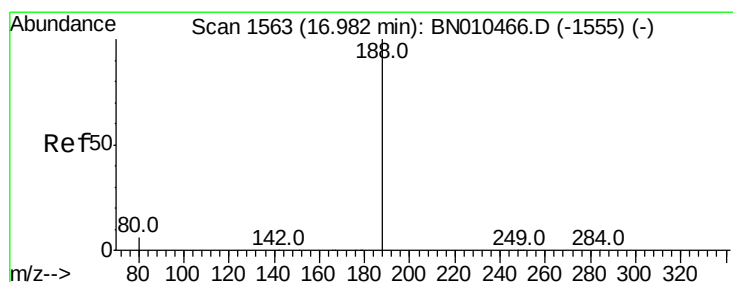
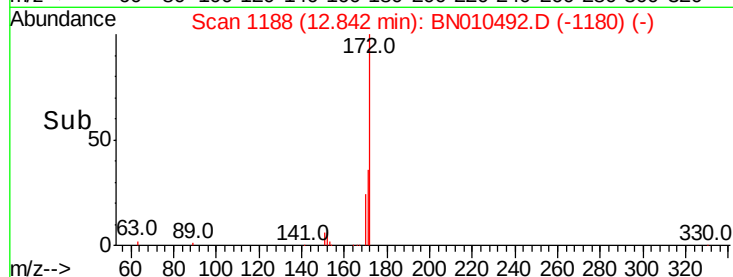
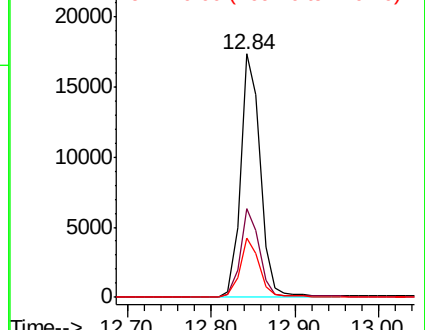
Ion	Ratio	Lower	Upper
172	100		
171	36.3	28.2	42.2
170	24.3	18.4	27.6



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



#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.97 min Scan# 1563

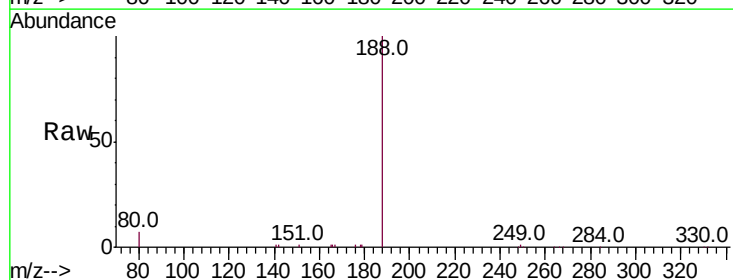
Delta R.T. -0.01 min

Lab File: BN010492.D

Acq: 14 Apr 2020 23:54

Tgt Ion:188 Resp: 23629

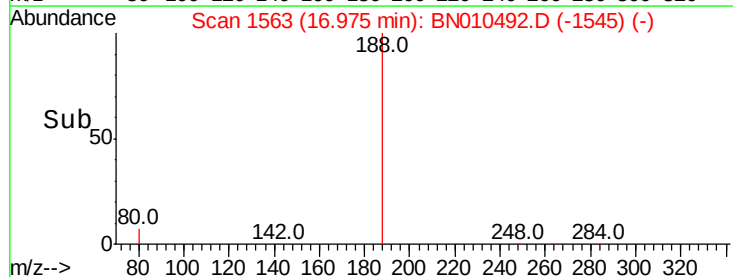
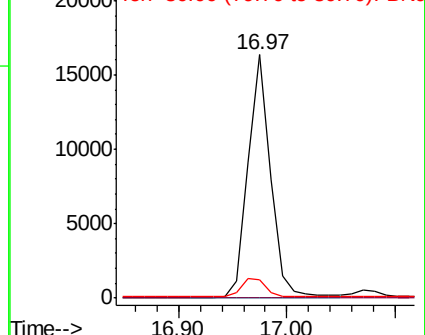
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.4	5.0	7.6

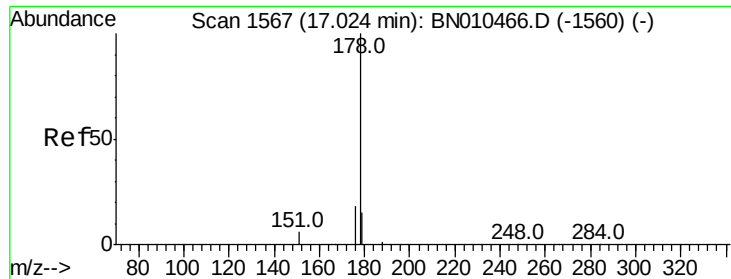


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BNC

Ion 80.00 (79.70 to 80.70): BNC





#23

Phenanthrene

Concen: 0.023 ng

RT: 17.02 min Scan# 1567

Delta R.T. -0.01 min

Lab File: BN010492.D

Acq: 14 Apr 2020 23:54

Instrument :

BNA_N

ClientSampleId :

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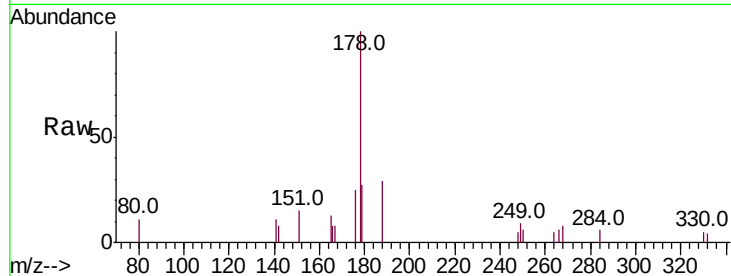
Tot Ion:178 Resp: 1480

Ion Ratio Lower Upper

178 100

176 19.2 15.0 22.4

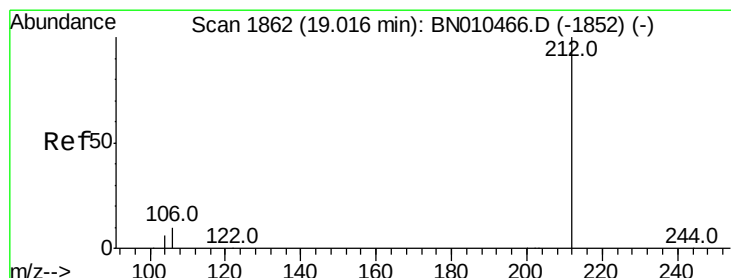
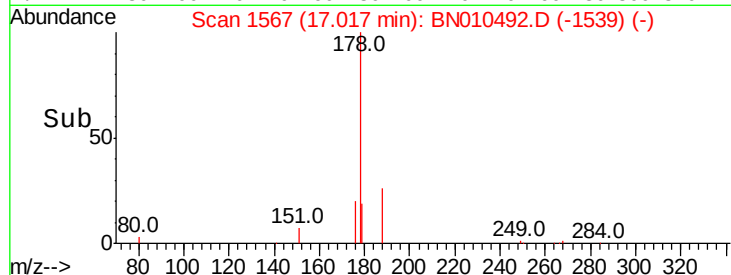
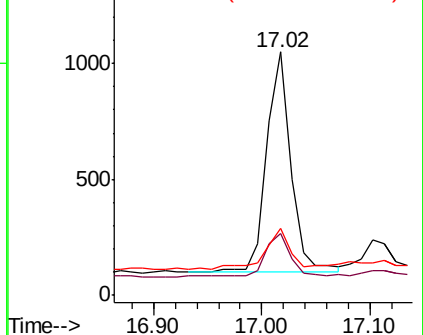
179 19.0 12.6 18.8#



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



#25

Fluoranthene-d10

Concen: 0.418 ng

RT: 19.01 min Scan# 1862

Delta R.T. -0.01 min

Lab File: BN010492.D

Acq: 14 Apr 2020 23:54

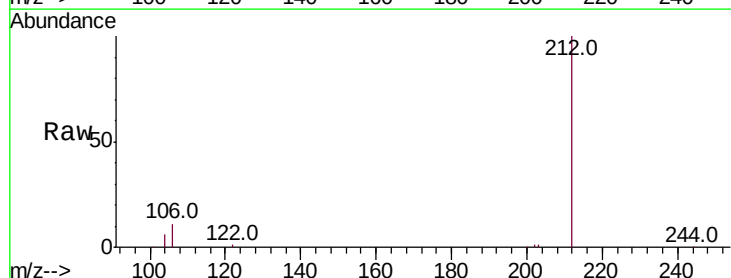
Tgt Ion:212 Resp: 29951

Ion Ratio Lower Upper

212 100

106 10.0 7.8 11.6

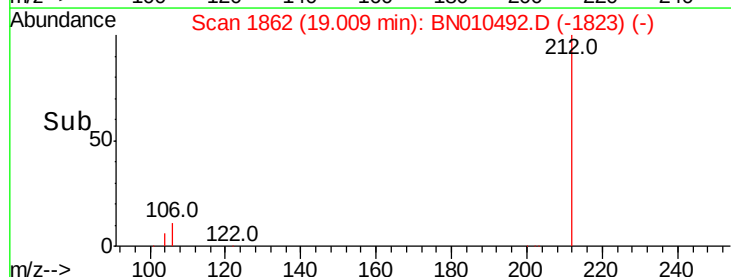
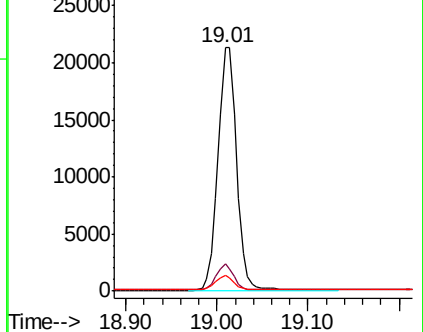
104 5.7 4.5 6.7

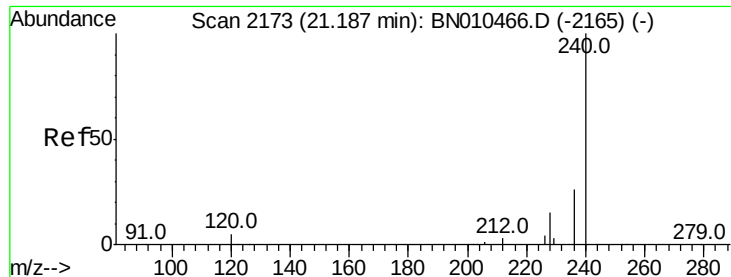


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E

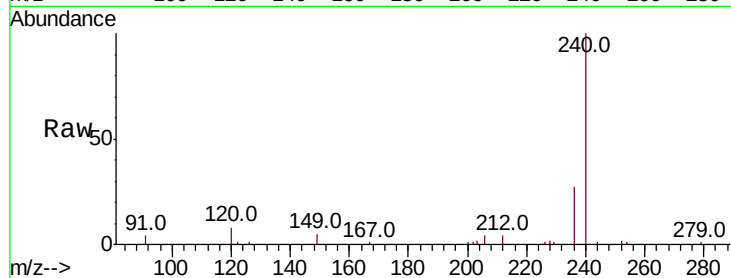




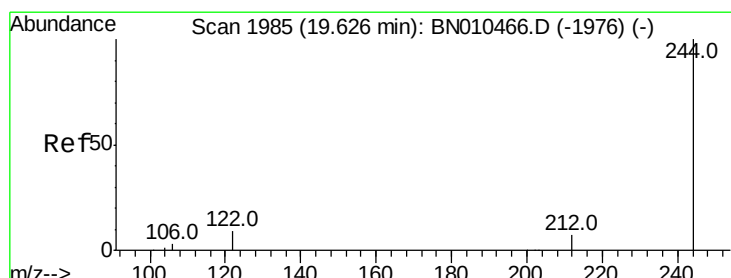
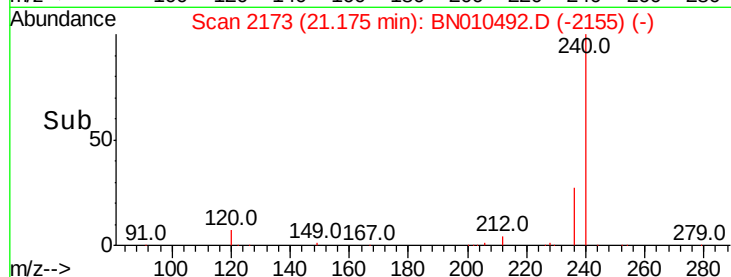
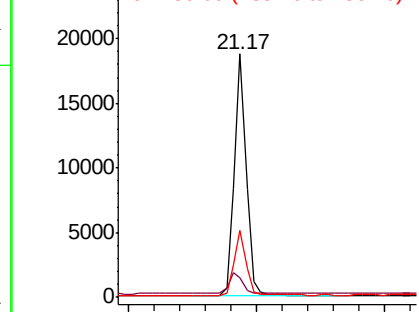
#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.17 min Scan# 2173
Delta R.T. -0.01 min
Lab File: BN010492.D
Acq: 14 Apr 2020 23:54

Instrument :
BNA_N
ClientSampleId :
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Tot Ion:240 Resp: 24153
Ion Ratio Lower Upper
240 100
120 8.2 4.8 7.2#
236 27.3 21.4 32.0

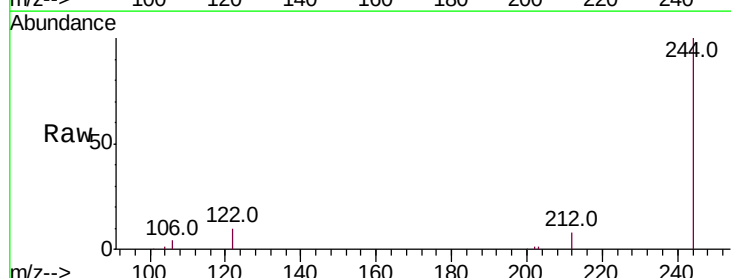


Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E

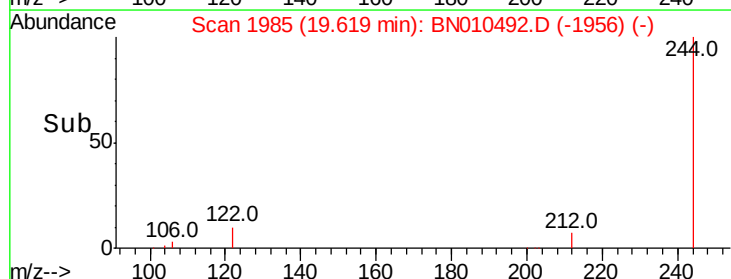
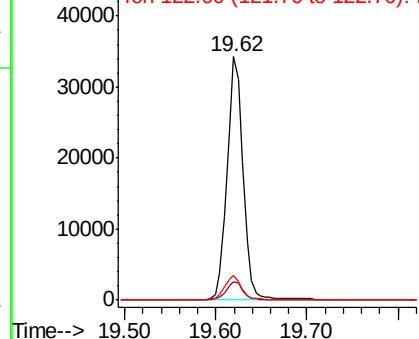


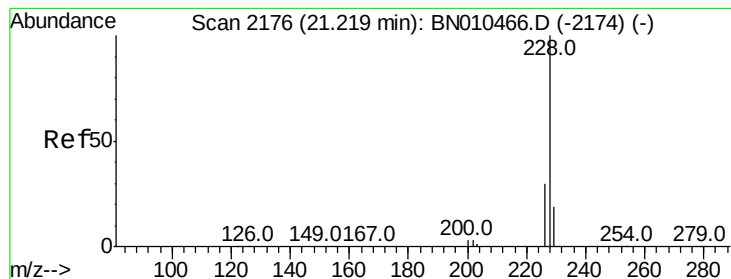
#29
Terphenyl-d14
Concen: 0.752 ng
RT: 19.62 min Scan# 1985
Delta R.T. -0.01 min
Lab File: BN010492.D
Acq: 14 Apr 2020 23:54

Tgt Ion:244 Resp: 41553
Ion Ratio Lower Upper
244 100
212 7.7 6.2 9.4
122 9.9 7.8 11.8



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





#31

Chrysene

Concen: 0.024 ng

RT: 21.21 min Scan# 2176

Delta R.T. -0.01 min

Lab File: BN010492.D

Acq: 14 Apr 2020 23:54

Instrument :

BNA_N

ClientSampleId :

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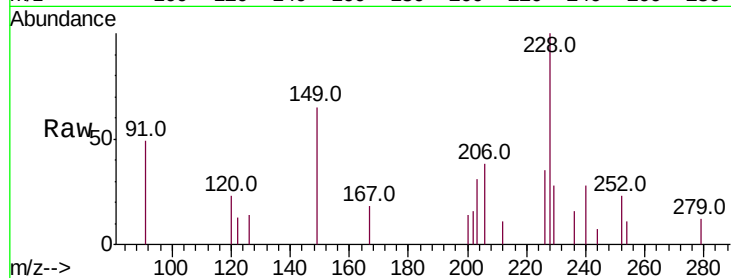
Tot Ion:228 Resp: 1857

Ion Ratio Lower Upper

228 100

226 35.5 24.0 36.0

229 28.0 15.8 23.6#

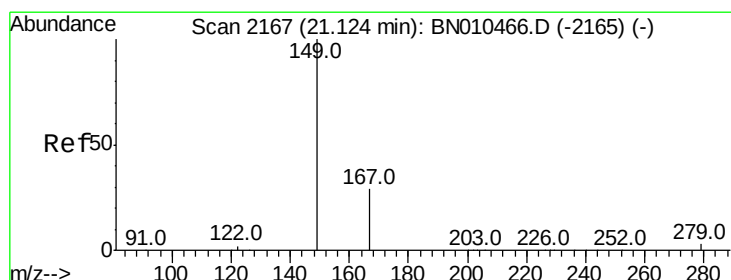
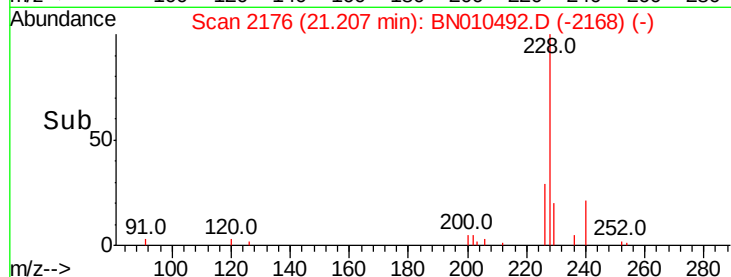
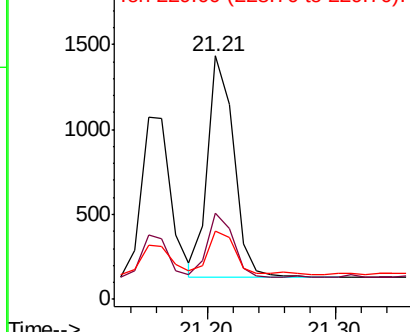


Abundance

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: 0.193 ng

RT: 21.11 min Scan# 2167

Delta R.T. -0.01 min

Lab File: BN010492.D

Acq: 14 Apr 2020 23:54

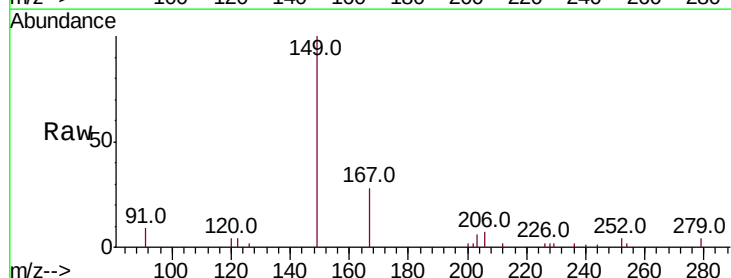
Tgt Ion:149 Resp: 7789

Ion Ratio Lower Upper

149 100

167 28.9 23.4 35.0

279 4.8 4.0 6.0

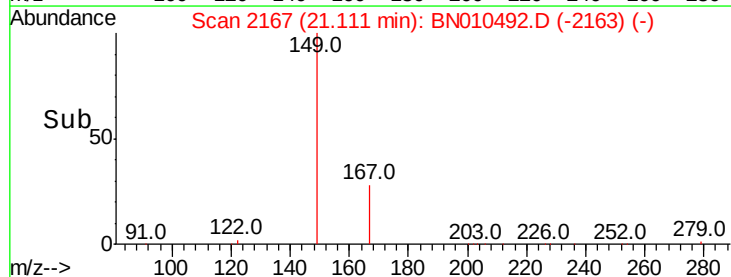
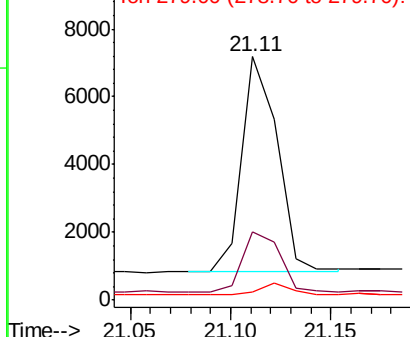


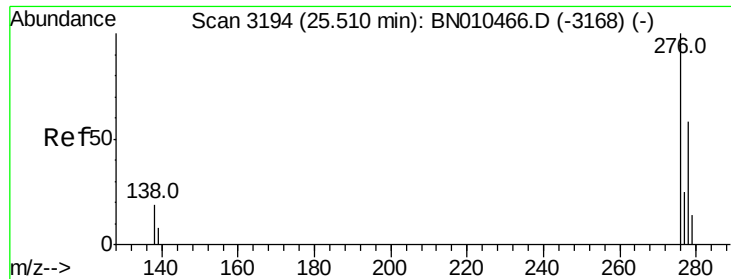
Abundance

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





#33

Indeno(1,2,3-cd)pyrene

Concen: 0.021 ng

RT: 25.49 min Scan# 3190

Delta R.T. -0.02 min

Lab File: BN010492.D

Acq: 14 Apr 2020 23:54

Instrument :

BNA_N

ClientSampleId :

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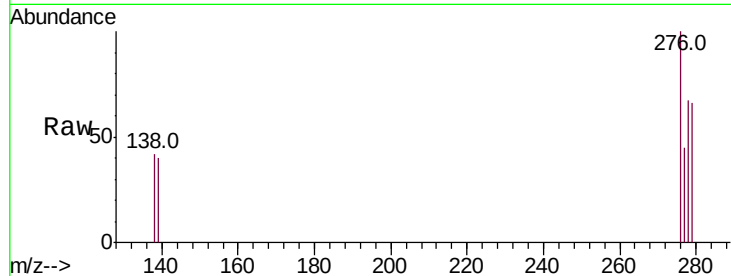
Tot Ion:276 Resp: 1485

Ion Ratio Lower Upper

276 100

138 10.7 16.4 24.6#

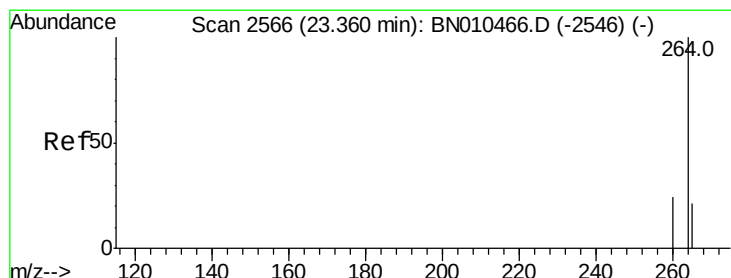
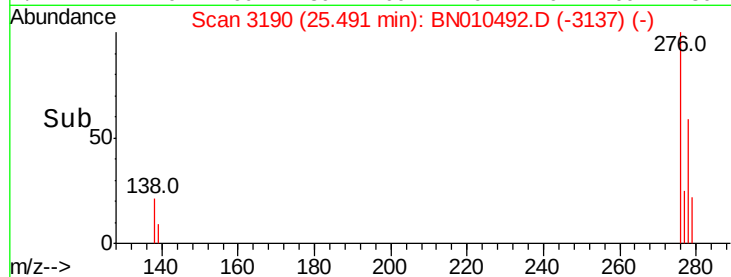
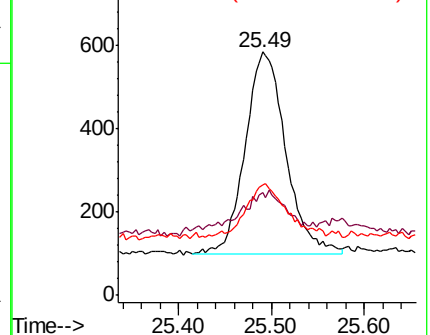
277 26.9 19.8 29.6



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#34

Perylene-d12

Concen: 0.400 ng

RT: 23.34 min Scan# 2563

Delta R.T. -0.02 min

Lab File: BN010492.D

Acq: 14 Apr 2020 23:54

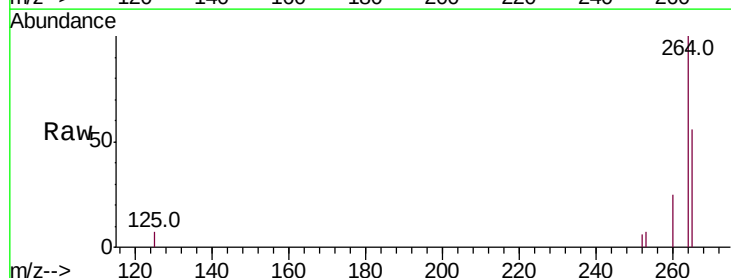
Tgt Ion:264 Resp: 21445

Ion Ratio Lower Upper

264 100

260 25.1 19.8 29.8

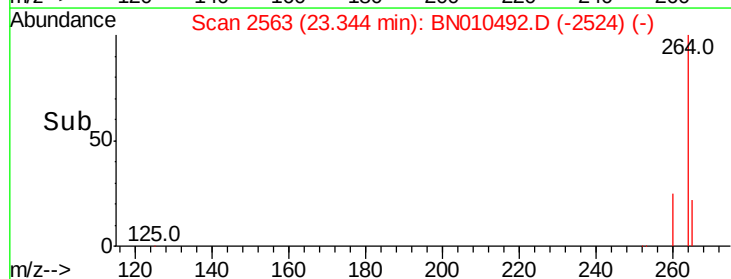
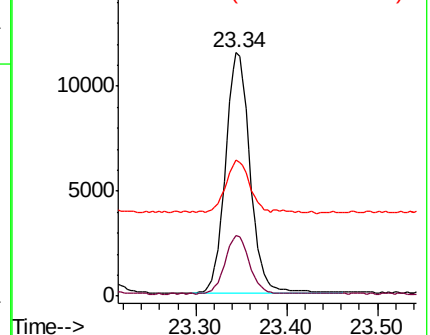
265 55.7 42.3 63.5

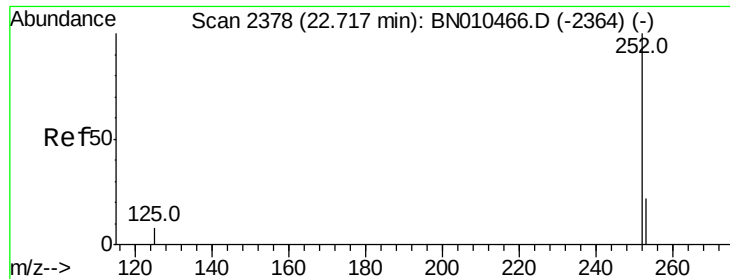


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

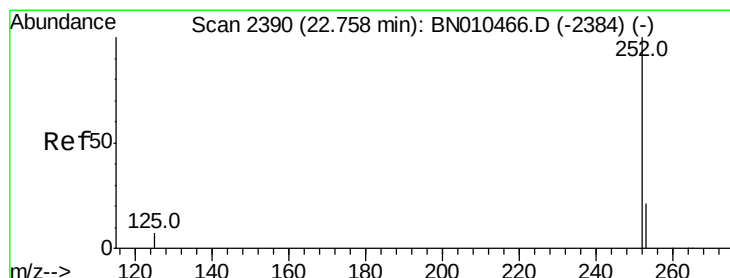
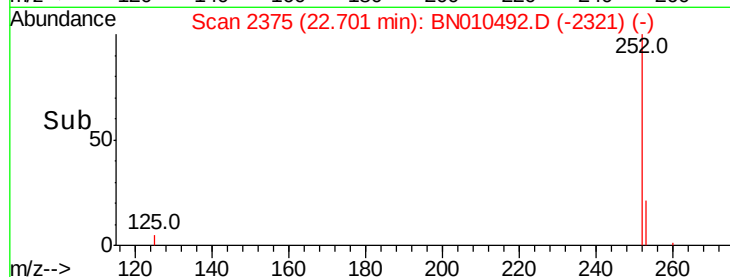
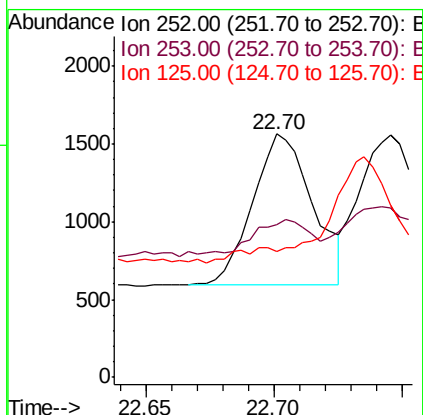
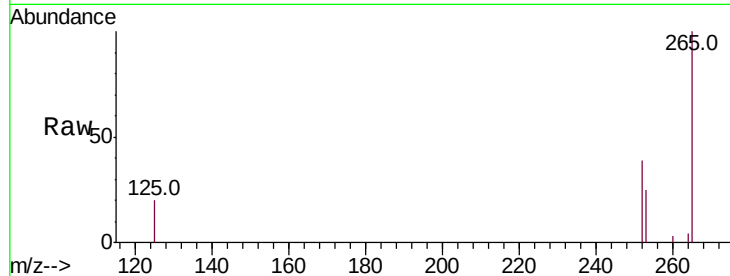




#35
Benzo(b)fluoranthene
Concen: 0.022 ng
RT: 22.70 min Scan# 2375
Delta R.T. -0.02 min
Lab File: BN010492.D
Acq: 14 Apr 2020 23:54

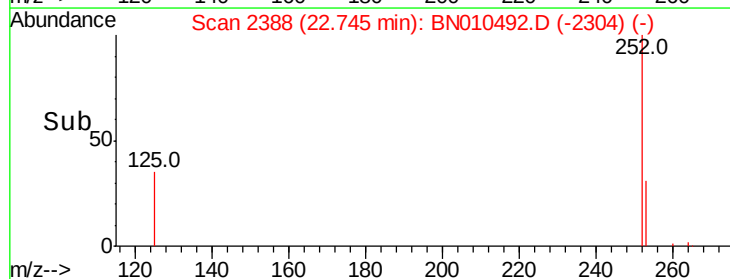
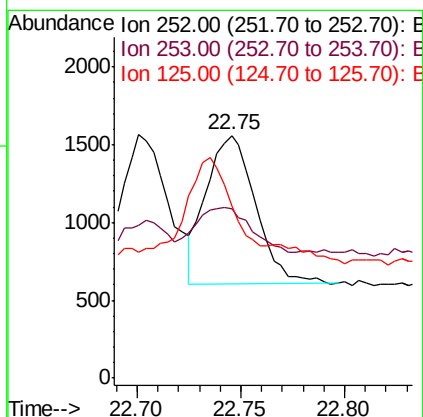
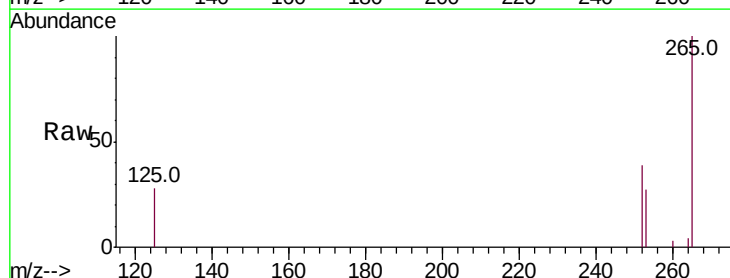
Instrument :
BNA_N
ClientSampleId :
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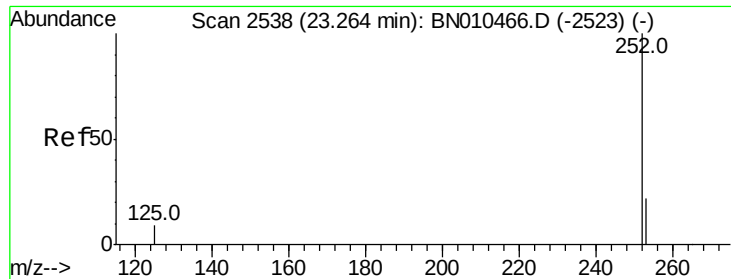
Tot Ion:252 Resp: 1572
Ion Ratio Lower Upper
252 100
253 62.8 20.2 30.4#
125 51.4 9.2 13.8#



#36
Benzo(k)fluoranthene
Concen: 0.022 ng
RT: 22.75 min Scan# 2388
Delta R.T. -0.01 min
Lab File: BN010492.D
Acq: 14 Apr 2020 23:54

Tgt Ion:252 Resp: 1566
Ion Ratio Lower Upper
252 100
253 69.8 20.1 30.1#
125 71.2 9.6 14.4#





#37

Benzo(a)pyrene

Concen: 0.020 ng

RT: 23.26 min Scan# 2537

Delta R.T. -0.01 min

Lab File: BN010492.D

Acq: 14 Apr 2020 23:54

Instrument :

BNA_N

ClientSampleId :

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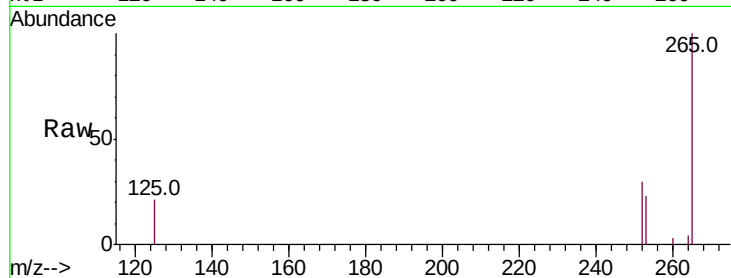
Tot Ion:252 Resp: 1253

Ion Ratio Lower Upper

252 100

253 78.2 21.8 32.8#

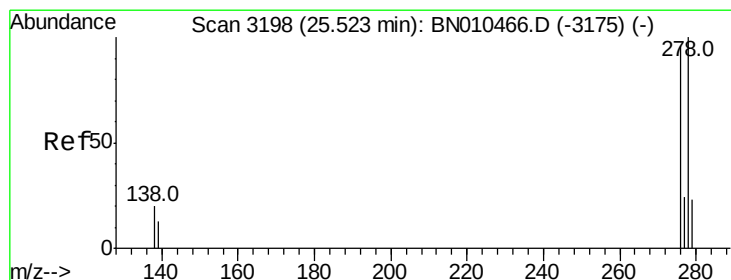
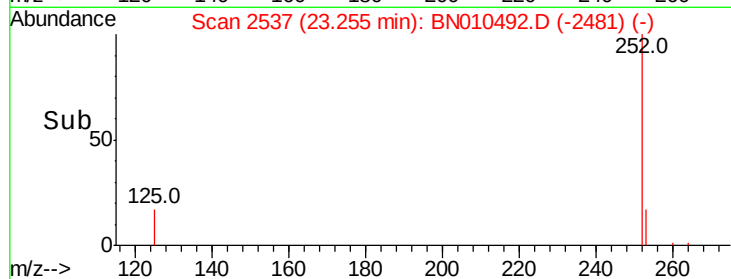
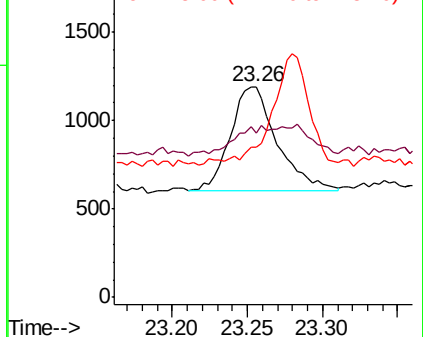
125 71.2 11.0 16.6#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#38

Dibenzo(a,h)anthracene

Concen: 0.021 ng

RT: 25.50 min Scan# 3193

Delta R.T. -0.02 min

Lab File: BN010492.D

Acq: 14 Apr 2020 23:54

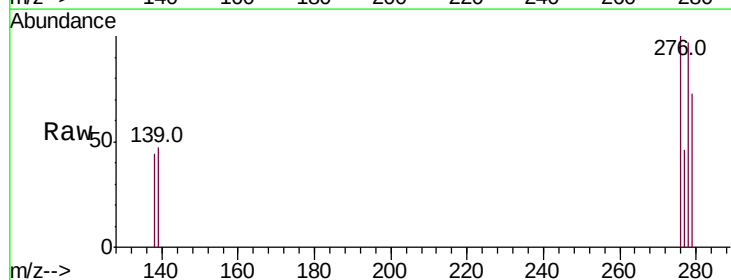
Tgt Ion:278 Resp: 1227

Ion Ratio Lower Upper

278 100

139 47.9 12.3 18.5#

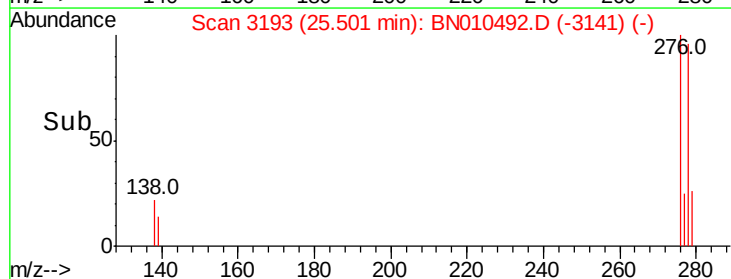
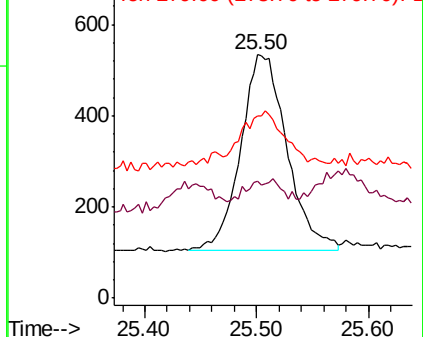
279 74.9 21.9 32.9#

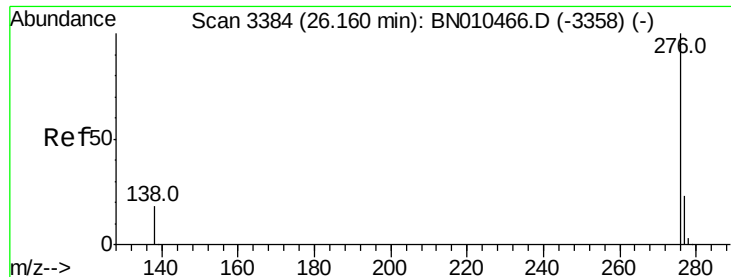


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#39

Benzo(a,h,i)perylene

Concen: 0.027 ng

RT: 26.14 min Scan# 3379

Delta R.T. -0.02 min

Lab File: BN010492.D

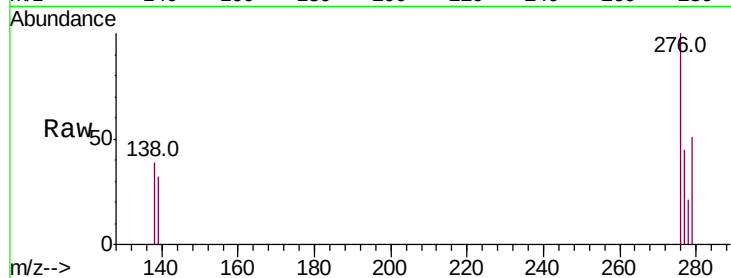
Acq: 14 Apr 2020 23:54

Instrument :

BNA_N

ClientSampleId :

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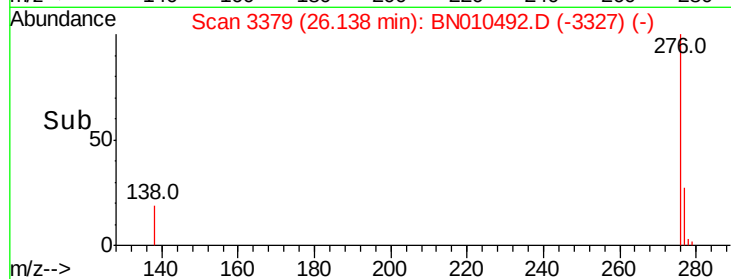
Tot Ion: 276 Resp: 1528

Ion Ratio Lower Upper

276 100

277 44.6 20.2 30.2#

138 39.2 15.4 23.2#



Abundance Ion 276.00 (275.70 to 276.70): E

800 Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

600

26.14

400

200

0

Time--> 26.00 26.10 26.20