

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN032519\
 Data File : BN004959.D
 Acq On : 25 Mar 2019 14:10
 Operator : JU/SJ
 Sample : K2014-06RE
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PST-026-SW039-031919

Quant Time: Mar 26 01:17:24 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\8270-SIM-BN032019.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Mar 20 16:06:20 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.68	152	3866	0.40	ng	-0.02
7) Naphthalene-d8	10.47	136	15349	0.40	ng	-0.03
13) Acenaphthene-d10	14.32	164	7634	0.40	ng	-0.02
19) Phenanthrene-d10	17.08	188	15497	0.40	ng	-0.01
27) Chrysene-d12	21.28	240	17750	0.40	ng	-0.01
34) Perylene-d12	23.53	264	19506	0.40	ng	-0.02

System Monitoring Compounds

4) 2-Fluorophenol	5.28	112	4138	0.39	ng	0.00
5) Phenol-d6	6.86	99	5026	0.38	ng	-0.02
8) Nitrobenzene-d5	8.84	82	3953	0.39	ng	-0.03
11) 2-Methylnaphthalene-d10	12.06	152	7606	0.28	ng	-0.02
14) 2,4,6-Tribromophenol	15.84	330	1595	0.30	ng	-0.01
15) 2-Fluorobiphenyl	12.94	172	10969	0.35	ng	-0.02
25) Fluoranthene-d10	19.12	212	13091	0.25	ng	-0.01
29) Terphenyl-d14	19.71	244	10733	0.30	ng	-0.01

Target Compounds

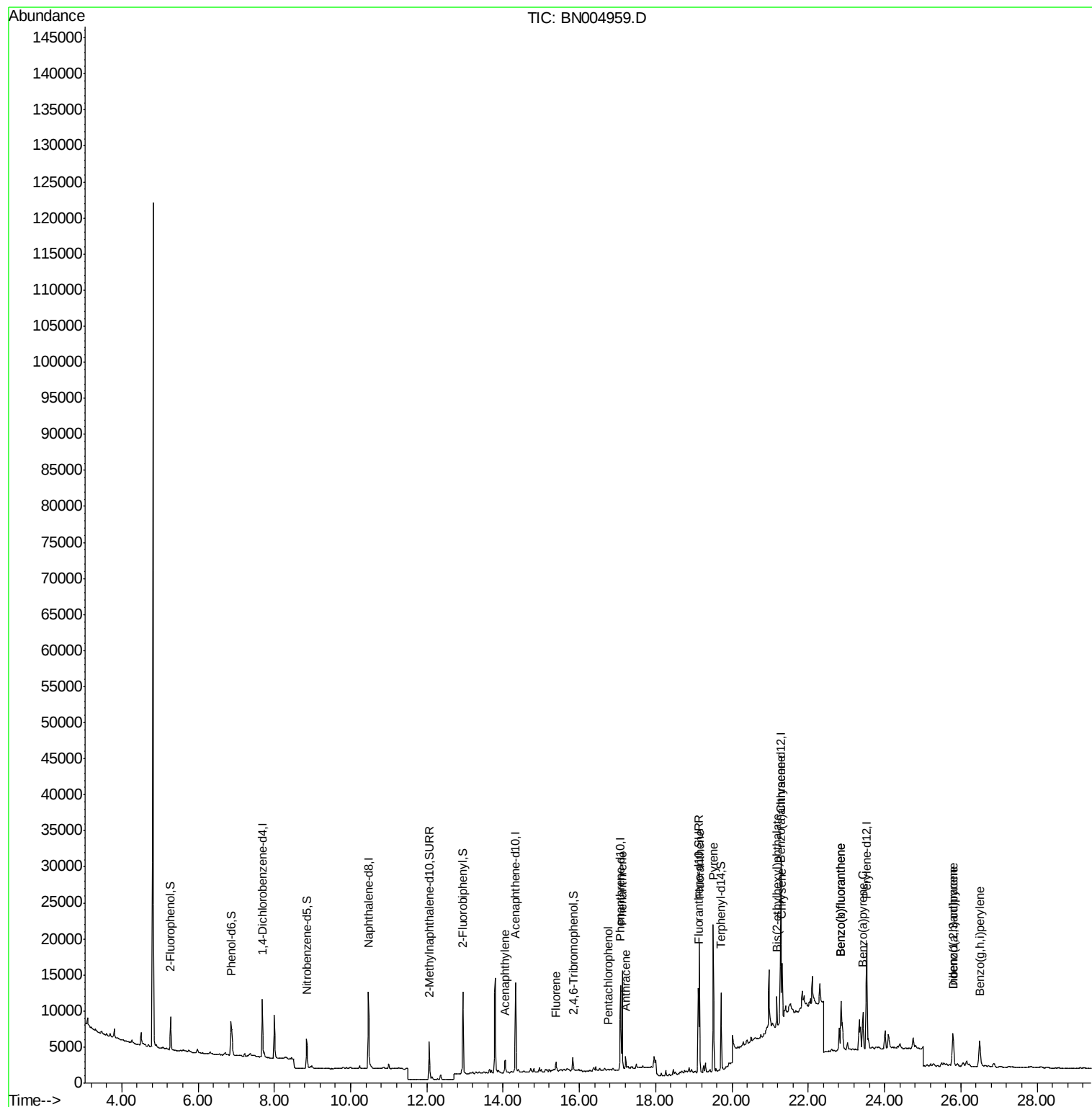
						Qvalue
16) Acenaphthylene	14.05	152	2386	0.061	ng	98
18) Fluorene	15.38	166	955	0.027	ng	# 85
22) Pentachlorophenol	16.75	266	57	0.025	ng	# 73
23) Phenanthrene	17.12	178	13941	0.279	ng	98
24) Anthracene	17.22	178	2201	0.049	ng	96
26) Fluoranthene	19.15	202	16014	0.249	ng	# 97
28) Pyrene	19.51	202	18058	0.334	ng	97
30) Benzo(a)anthracene	21.27	228	8274	0.142	ng	# 81
31) Chrysene	21.31	228	7886	0.129	ng	# 88
32) Bis(2-ethylhexyl)phthalate	21.17	149	3925	0.169	ng	99
33) Indeno(1,2,3-cd)pyrene	25.80	276	6071	0.068	ng	# 95
35) Benzo(b)fluoranthene	22.85	252	8547	0.121	ng	# 48
36) Benzo(k)fluoranthene	22.85	252	8547	0.123	ng	# 49
37) Benzo(a)pyrene	23.43	252	7045	0.109	ng	# 58
38) Dibenzo(a,h)anthracene	25.80	278	2511	0.033	ng	# 1
39) Benzo(g,h,i)perylene	26.49	276	7334	0.096	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: 7.68 min Scan# 578

Delta R.T. -0.02 min

Lab File: BN004959.D

Acq: 25 Mar 2019 14:10

Instrument :

BNA_N

ClientSampleId :

PST-026-SW039-031919

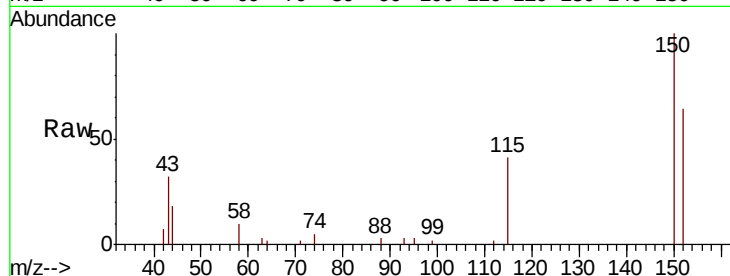
Tgt Ion:152 Resp: 3866

Ion Ratio Lower Upper

152 100

150 156.9 126.2 189.4

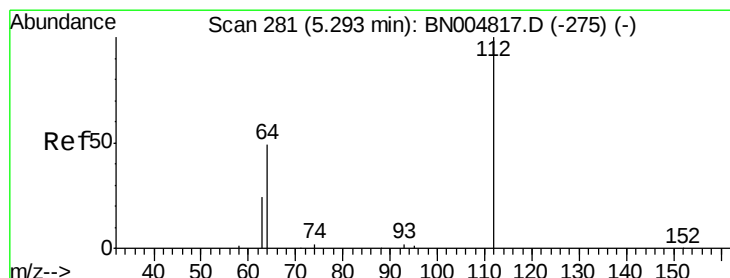
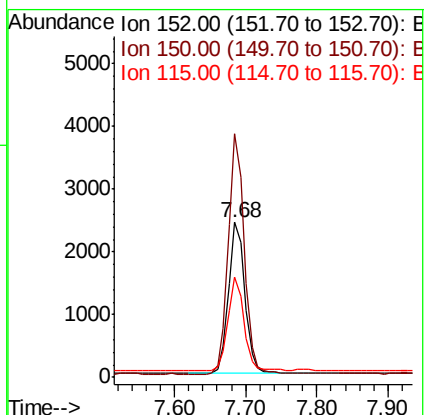
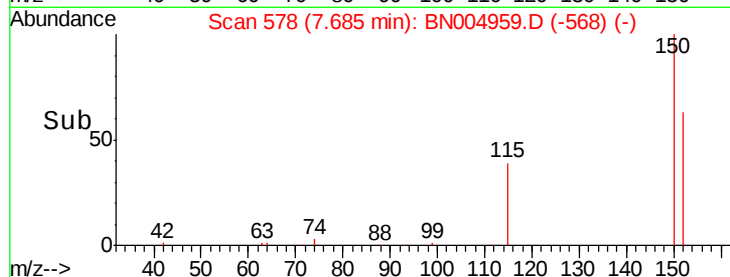
115 64.3 52.6 79.0



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: 0.394 ng

RT: 5.28 min Scan# 280

Delta R.T. -0.01 min

Lab File: BN004959.D

Acq: 25 Mar 2019 14:10

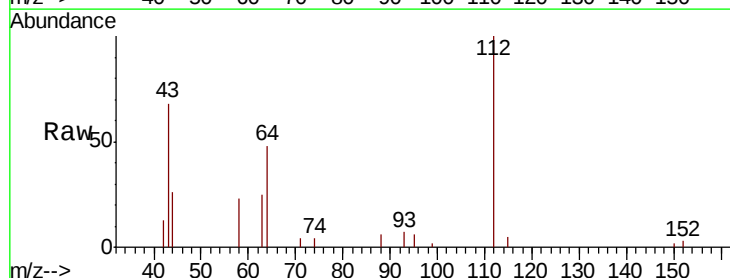
Tgt Ion:112 Resp: 4138

Ion Ratio Lower Upper

112 100

64 52.2 40.0 60.0

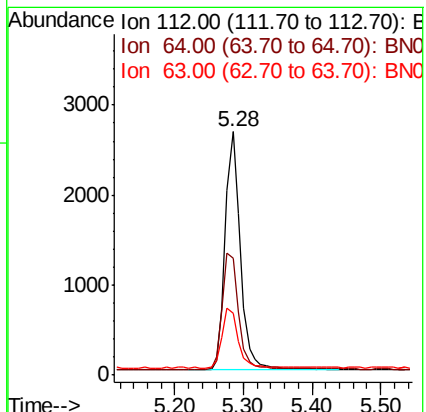
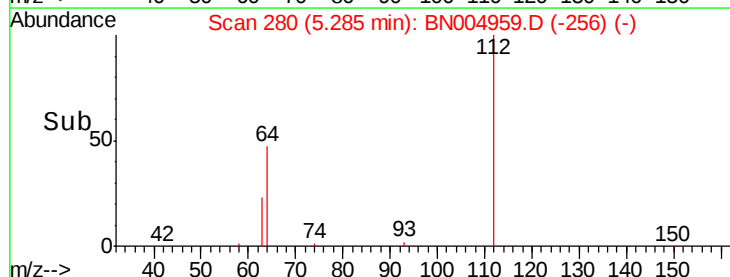
63 25.9 20.2 30.2

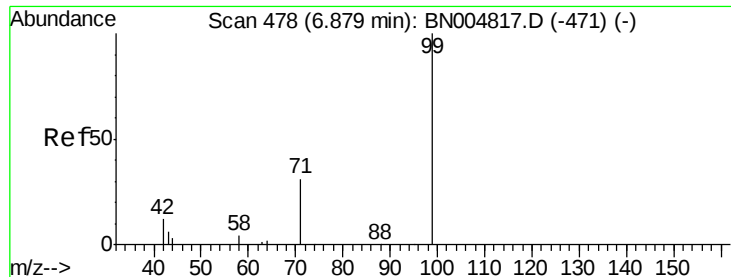


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BNC

Ion 63.00 (62.70 to 63.70): BNC





#5

Phenol-d6

Concen: 0.384 ng

RT: 6.86 min Scan# 476

Delta R.T. -0.02 min

Lab File: BN004959.D

Acq: 25 Mar 2019 14:10

Instrument :

BNA_N

ClientSampleId :

PST-026-SW039-031919

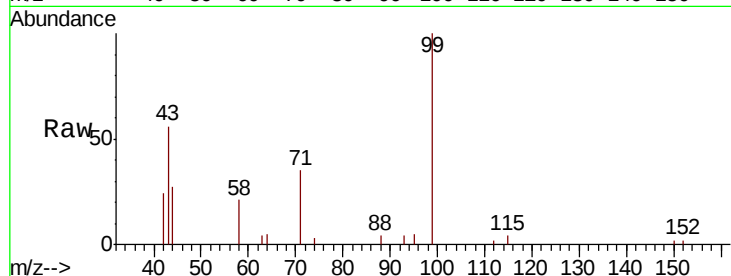
Tgt Ion: 99 Resp: 5026

Ion Ratio Lower Upper

99 100

42 18.6 12.7 19.1

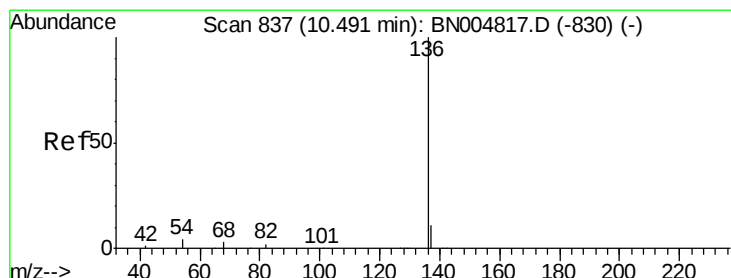
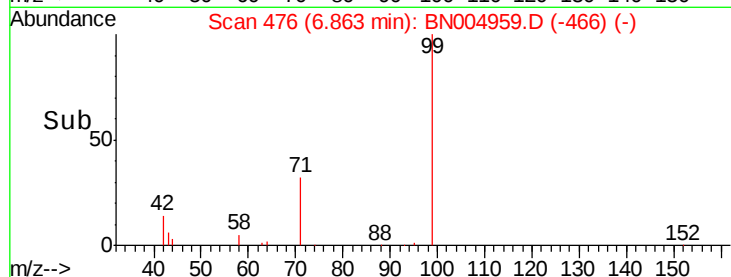
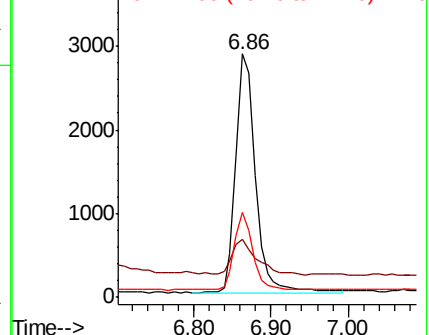
71 31.0 26.6 40.0



Abundance Ion 99.00 (98.70 to 99.70): BN004817.D (-471) (-)

Ion 42.00 (41.70 to 42.70): BN004817.D (-471) (-)

Ion 71.00 (70.70 to 71.70): BN004817.D (-471) (-)



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.47 min Scan# 835

Delta R.T. -0.03 min

Lab File: BN004959.D

Acq: 25 Mar 2019 14:10

Tgt Ion: 136 Resp: 15349

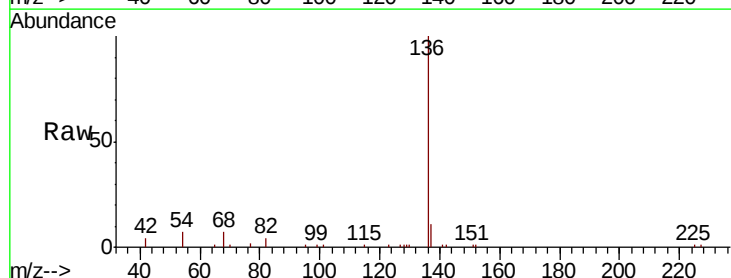
Ion Ratio Lower Upper

136 100

137 11.4 9.6 14.4

54 7.5 4.2 6.2#

68 6.6 3.9 5.9#

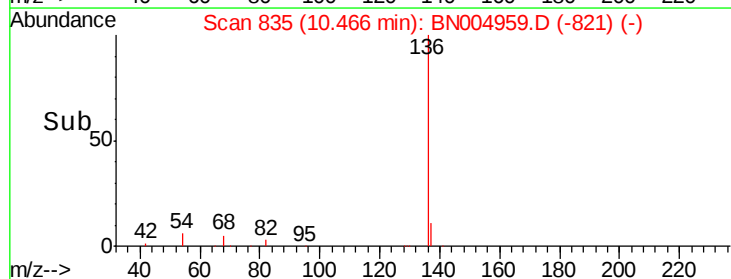
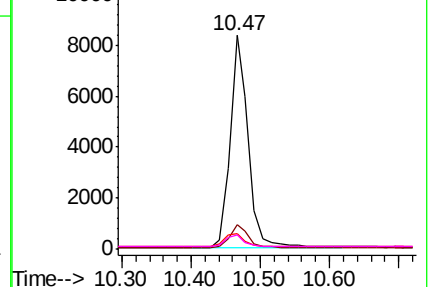


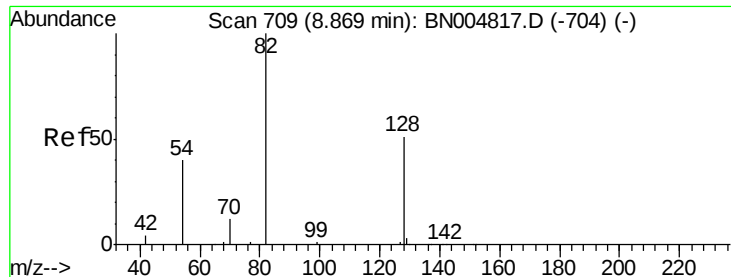
Abundance Ion 136.00 (135.70 to 136.70): BN004817.D (-830) (-)

Ion 137.00 (136.70 to 137.70): BN004817.D (-830) (-)

Ion 54.00 (53.70 to 54.70): BN004817.D (-830) (-)

Ion 68.00 (67.70 to 68.70): BN004817.D (-830) (-)

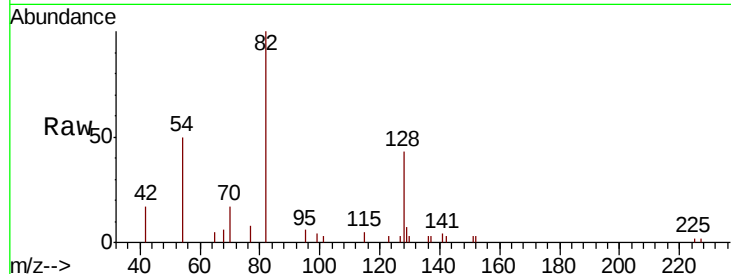




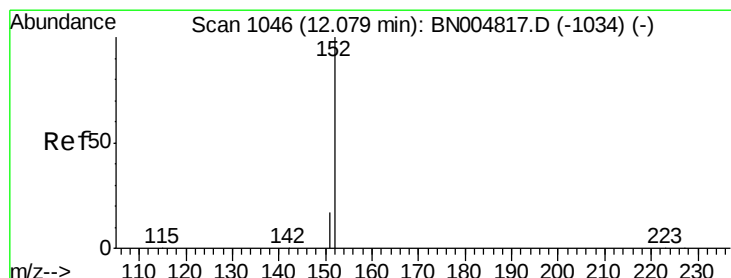
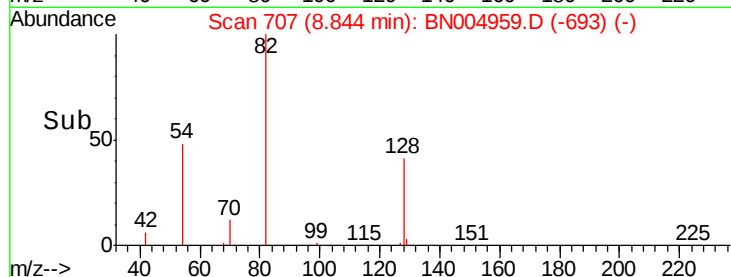
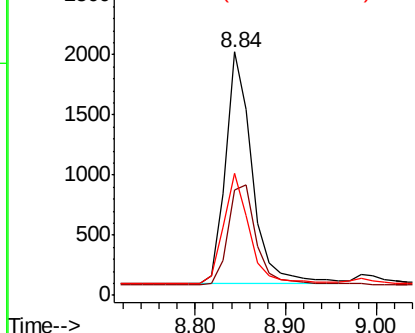
#8
 Nitrobenzene-d5
 Concen: 0.389 ng
 RT: 8.84 min Scan# 707
 Delta R.T. -0.03 min
 Lab File: BN004959.D
 Acq: 25 Mar 2019 14:10

Instrument :
 BNA_N
 ClientSampleId :
 PST-026-SW039-031919

Tgt Ion: 82 Resp: 3953
 Ion Ratio Lower Upper
 82 100
 128 43.3 43.0 64.6
 54 50.3 35.3 52.9

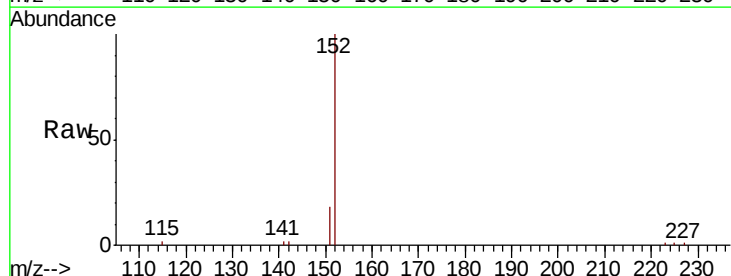


Abundance Ion 82.00 (81.70 to 82.70): BN0
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BN0

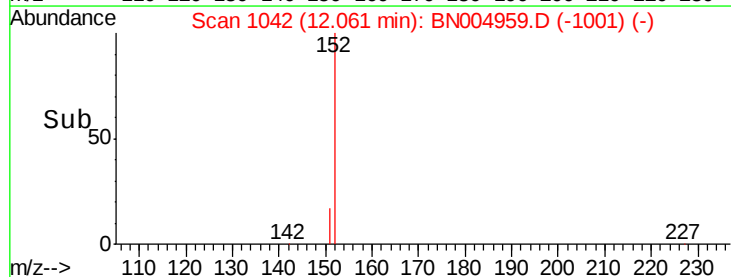
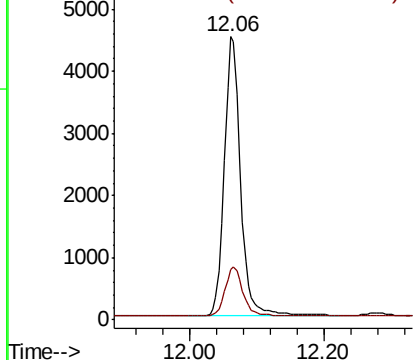


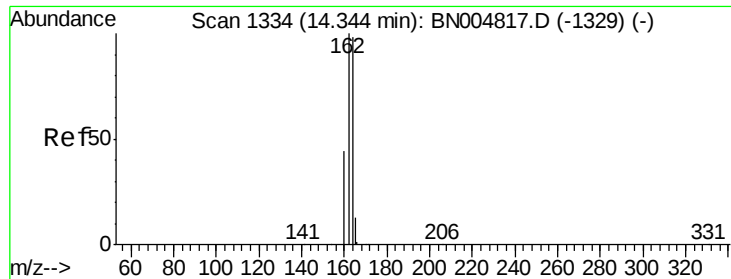
#11
 2-Methylnaphthalene-d10
 Concen: 0.284 ng
 RT: 12.06 min Scan# 1042
 Delta R.T. -0.02 min
 Lab File: BN004959.D
 Acq: 25 Mar 2019 14:10

Tgt Ion: 152 Resp: 7606
 Ion Ratio Lower Upper
 152 100
 151 19.4 15.5 23.3



Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 151.00 (150.70 to 151.70): E





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.32 min Scan# 1332

Delta R.T. -0.02 min

Lab File: BN004959.D

Acq: 25 Mar 2019 14:10

Instrument :

BNA_N

ClientSampleId :

PST-026-SW039-031919

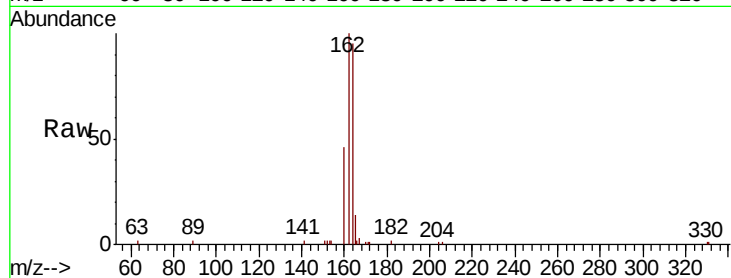
Tgt Ion:164 Resp: 7634

Ion Ratio Lower Upper

164 100

162 105.1 81.9 122.9

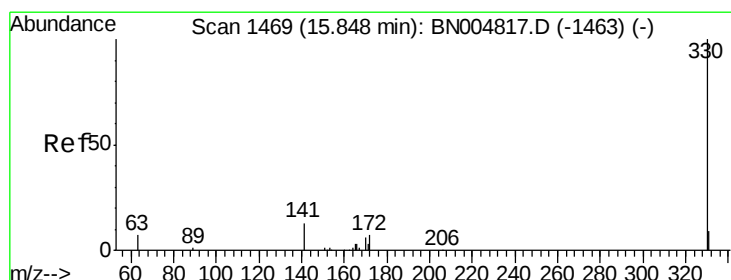
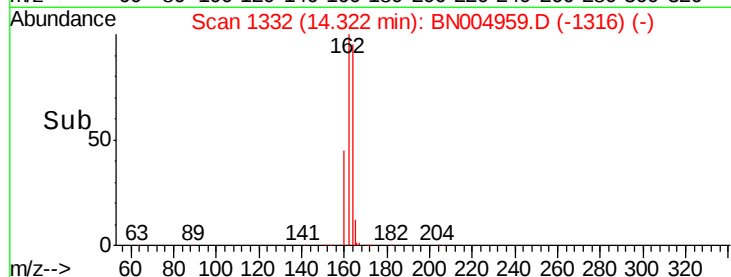
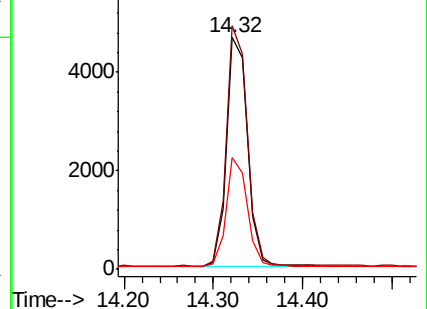
160 48.1 36.6 54.8



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: 0.303 ng

RT: 15.84 min Scan# 1468

Delta R.T. -0.01 min

Lab File: BN004959.D

Acq: 25 Mar 2019 14:10

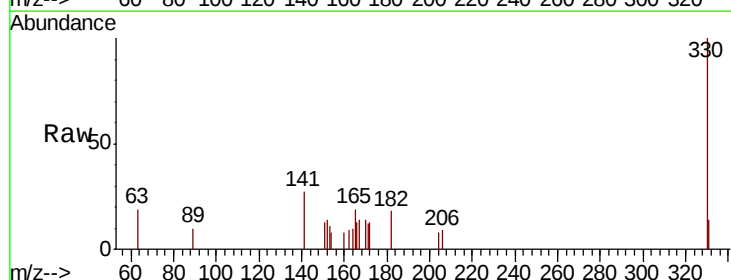
Tgt Ion:330 Resp: 1595

Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

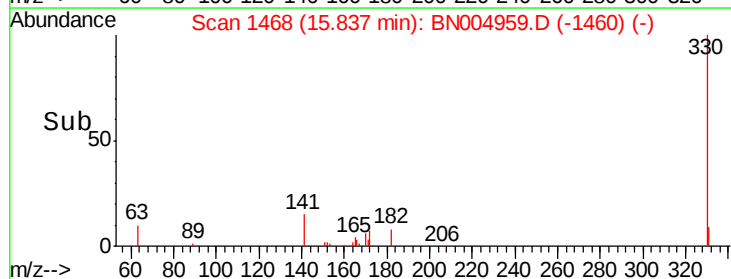
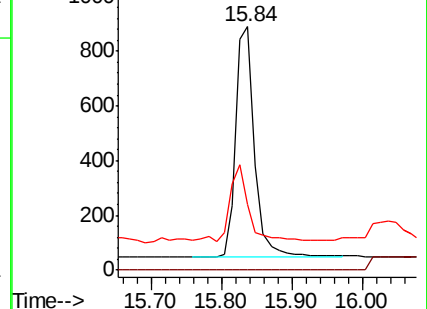
141 31.6 20.9 31.3#

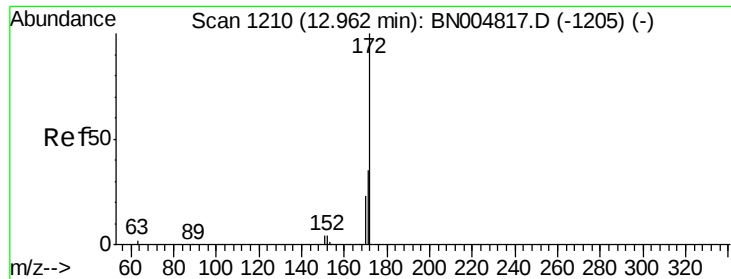


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

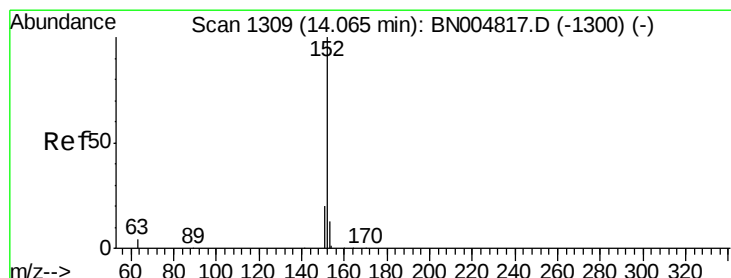
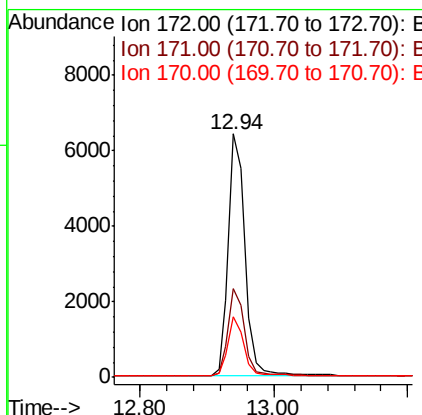
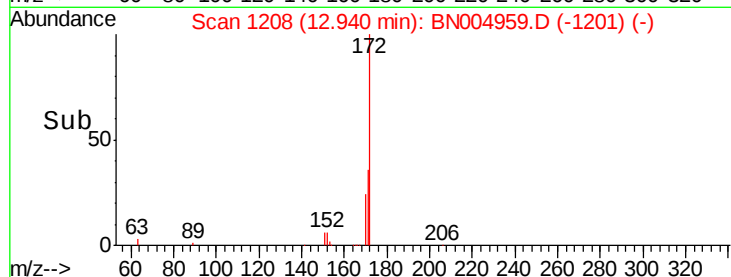
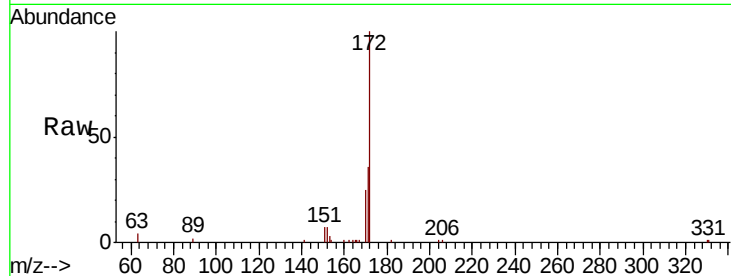




#15
2-Fluorobiphenyl
Concen: 0.348 ng
RT: 12.94 min Scan# 1208
Delta R.T. -0.02 min
Lab File: BN004959.D
Acq: 25 Mar 2019 14:10

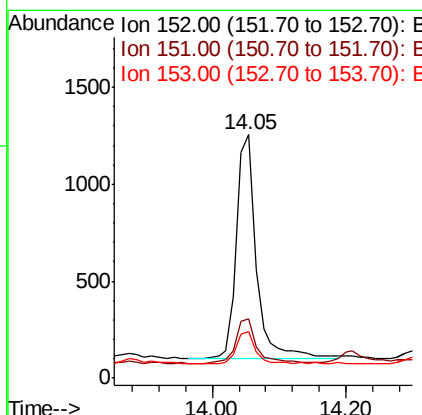
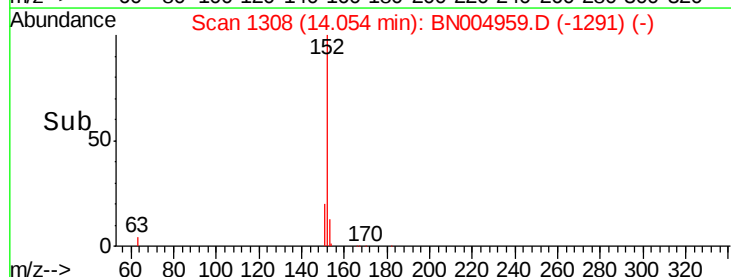
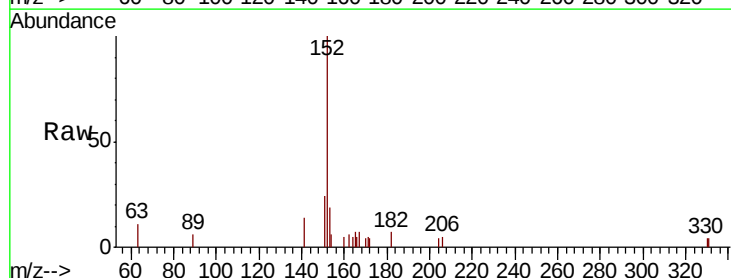
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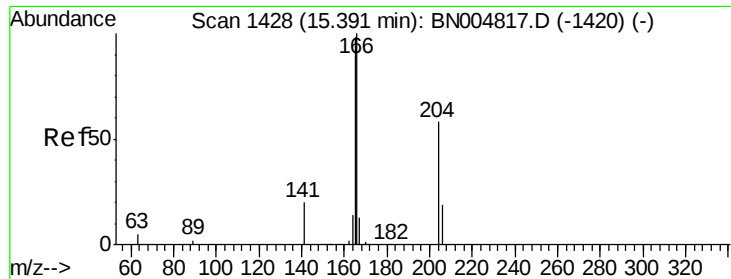
Tgt Ion:172 Resp: 10969
Ion Ratio Lower Upper
172 100
171 36.5 28.7 43.1
170 24.8 18.7 28.1



#16
Acenaphthylene
Concen: 0.061 ng
RT: 14.05 min Scan# 1308
Delta R.T. -0.01 min
Lab File: BN004959.D
Acq: 25 Mar 2019 14:10

Tgt Ion:152 Resp: 2386
Ion Ratio Lower Upper
152 100
151 20.6 16.1 24.1
153 14.0 10.5 15.7





#18

Fluorene

Concen: 0.027 ng

RT: 15.38 min Scan# 1427

Delta R.T. -0.01 min

Lab File: BN004959.D

Acq: 25 Mar 2019 14:10

Instrument :

BNA_N

ClientSampleId :

PST-026-SW039-031919

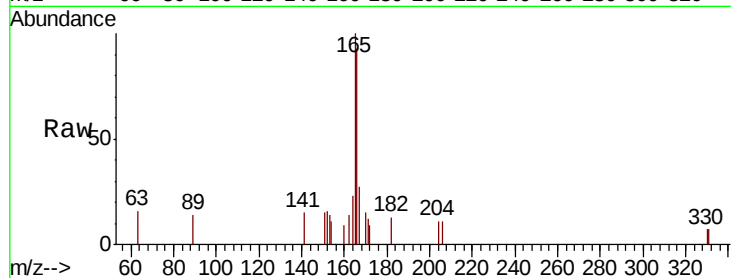
Tgt Ion:166 Resp: 955

Ion Ratio Lower Upper

166 100

165 112.3 78.2 117.4

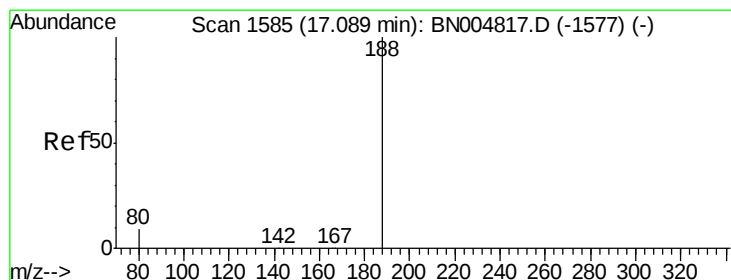
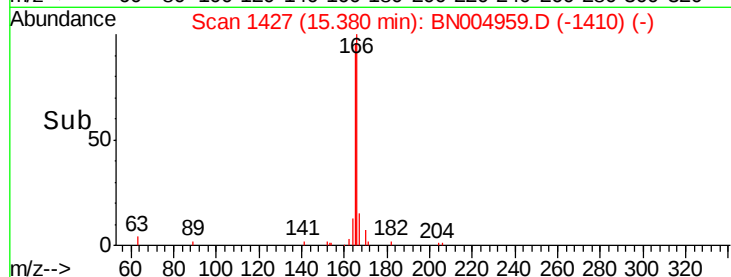
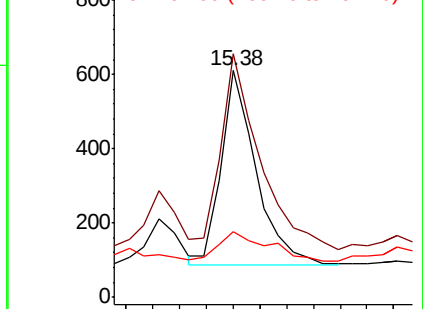
167 21.5 11.0 16.4#



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: 17.08 min Scan# 1584

Delta R.T. -0.01 min

Lab File: BN004959.D

Acq: 25 Mar 2019 14:10

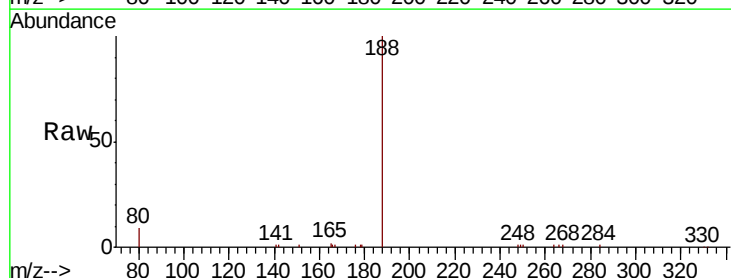
Tgt Ion:188 Resp: 15497

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

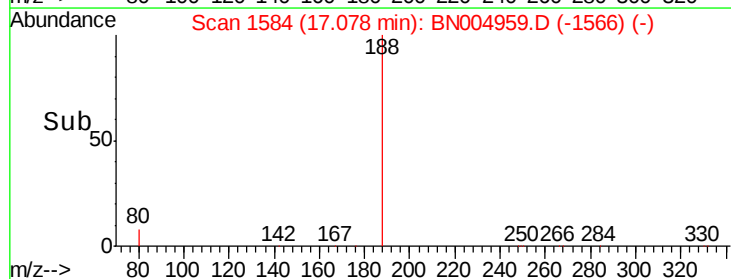
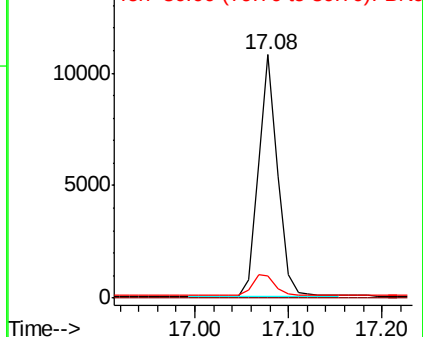
80 9.2 7.4 11.2

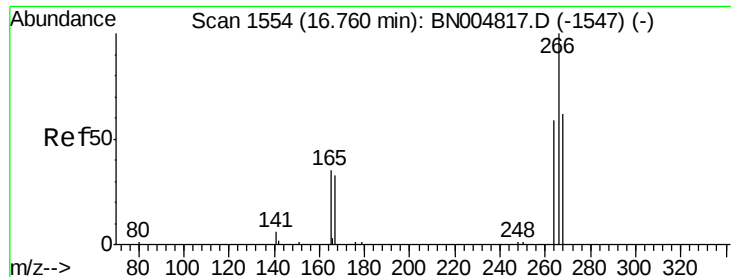


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BNC

Ion 80.00 (79.70 to 80.70): BNC





#22

Pentachlorophenol

Concen: 0.025 ng

RT: 16.75 min Scan# 1553

Delta R.T. -0.01 min

Lab File: BN004959.D

Acq: 25 Mar 2019 14:10

Instrument :

BNA_N

ClientSampleId :

PST-026-SW039-031919

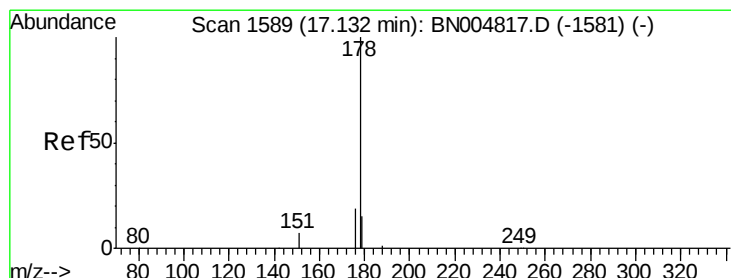
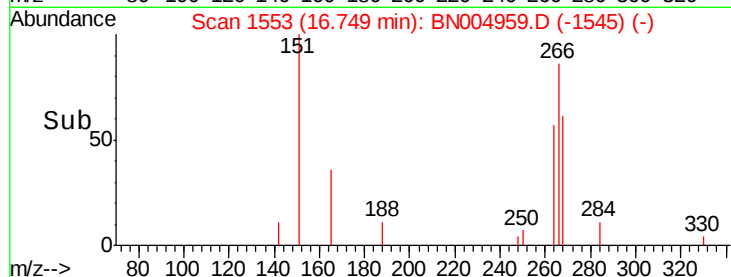
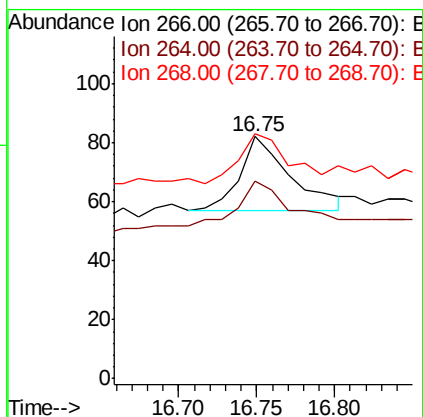
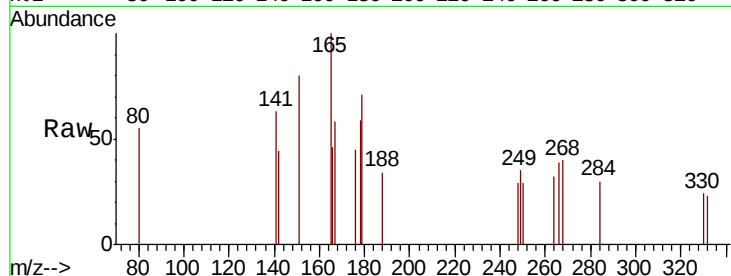
Tgt Ion:266 Resp: 57

Ion Ratio Lower Upper

266 100

264 81.7 53.1 79.7#

268 101.2 57.7 86.5#



#23

Phenanthrene

Concen: 0.279 ng

RT: 17.12 min Scan# 1588

Delta R.T. -0.01 min

Lab File: BN004959.D

Acq: 25 Mar 2019 14:10

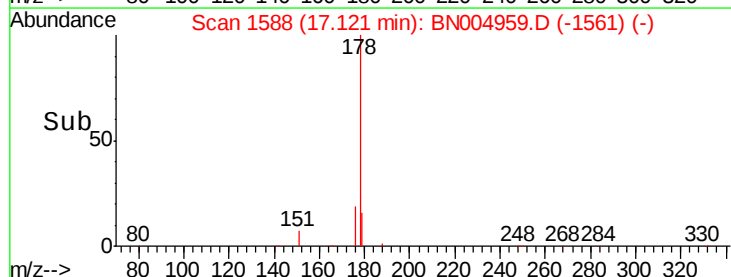
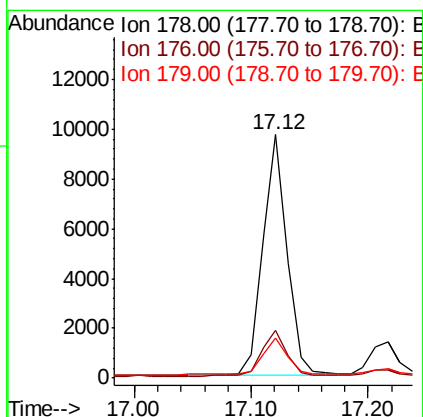
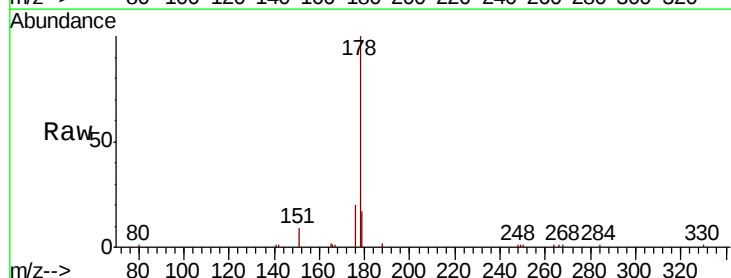
Tgt Ion:178 Resp: 13941

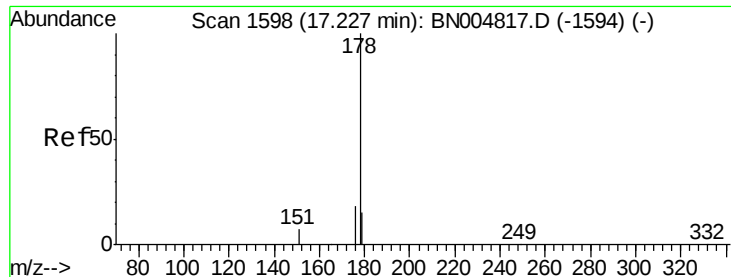
Ion Ratio Lower Upper

178 100

176 19.1 14.9 22.3

179 16.0 12.1 18.1





#24

Anthracene

Concen: 0.049 ng

RT: 17.22 min Scan# 1597

Delta R.T. -0.01 min

Lab File: BN004959.D

Acq: 25 Mar 2019 14:10

Instrument :

BNA_N

ClientSampleId :

PST-026-SW039-031919

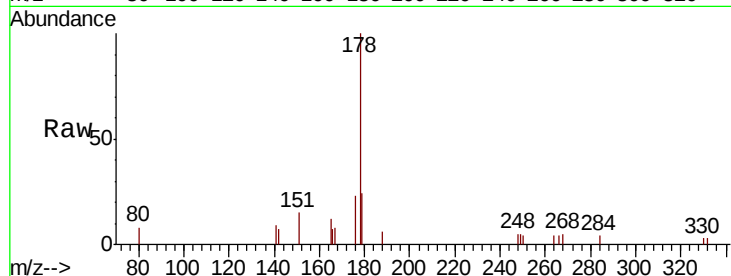
Tgt Ion:178 Resp: 2201

Ion Ratio Lower Upper

178 100

176 16.8 14.5 21.7

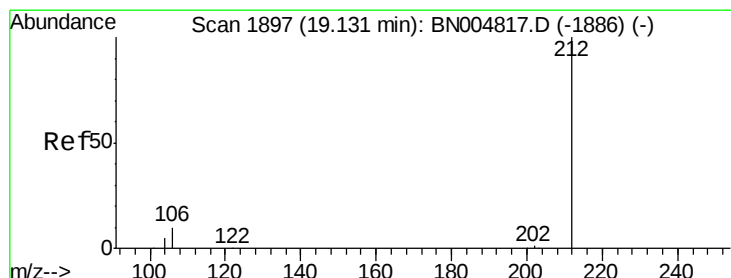
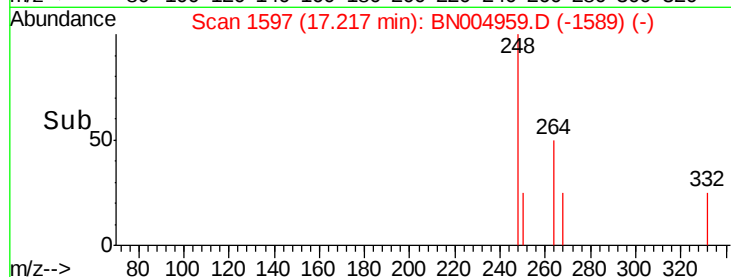
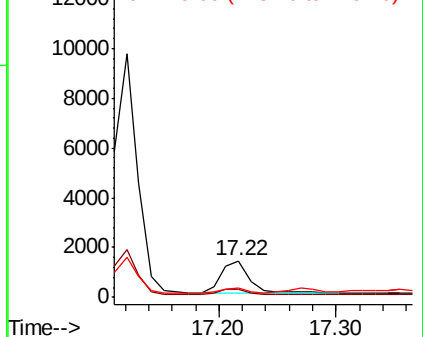
179 13.4 12.2 18.4



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: 0.252 ng

RT: 19.12 min Scan# 1894

Delta R.T. -0.01 min

Lab File: BN004959.D

Acq: 25 Mar 2019 14:10

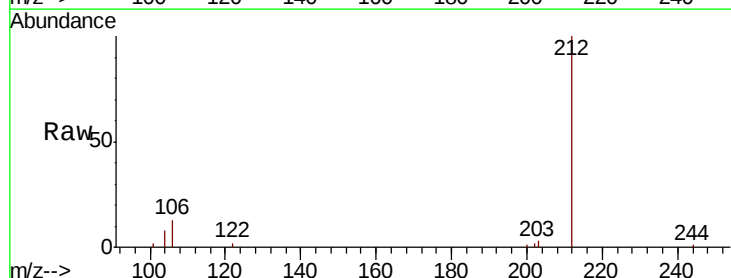
Tgt Ion:212 Resp: 13091

Ion Ratio Lower Upper

212 100

106 12.6 8.6 13.0

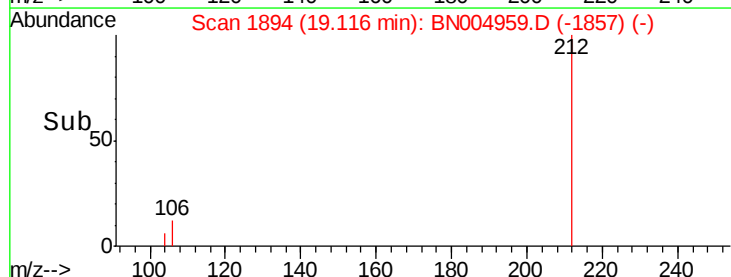
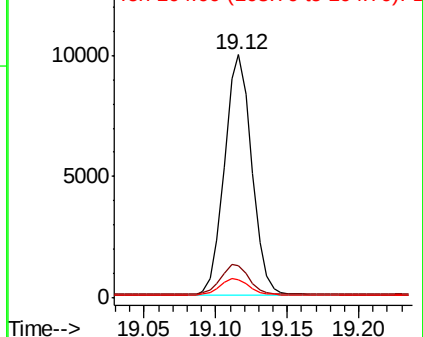
104 7.0 4.7 7.1

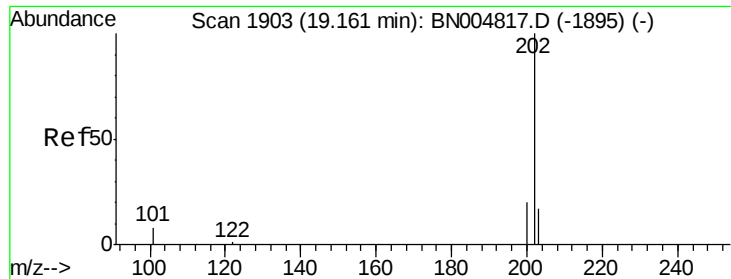


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E





#26

Fluoranthene

Concen: 0.249 ng

RT: 19.15 min Scan# 1900

Delta R.T. -0.01 min

Lab File: BN004959.D

Acq: 25 Mar 2019 14:10

Instrument :

BNA_N

ClientSampleId :

PST-026-SW039-031919

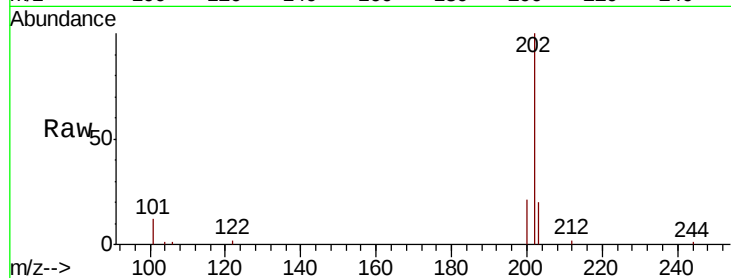
Tgt Ion:202 Resp: 16014

Ion Ratio Lower Upper

202 100

101 11.7 7.5 11.3#

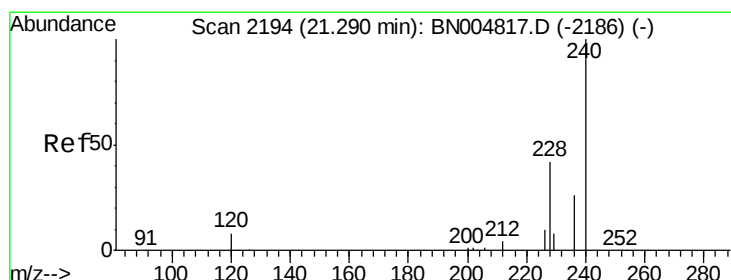
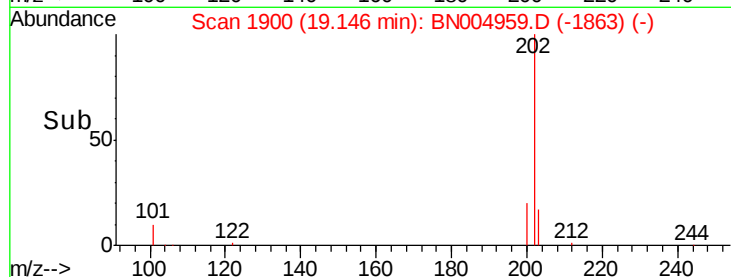
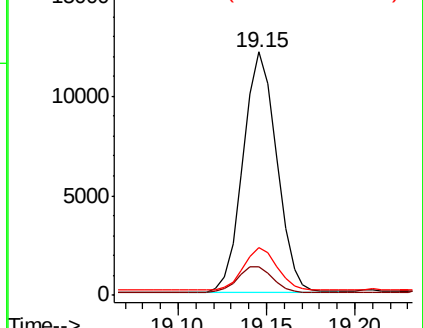
203 17.6 13.8 20.6



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: 21.28 min Scan# 2193

Delta R.T. -0.01 min

Lab File: BN004959.D

Acq: 25 Mar 2019 14:10

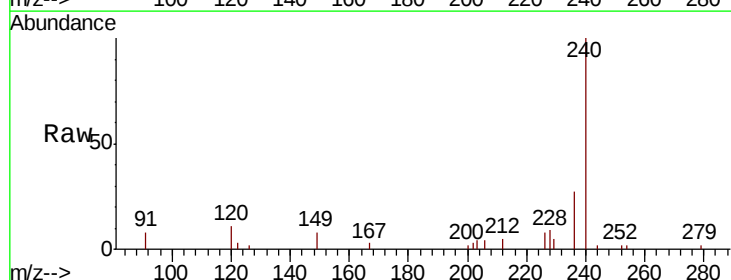
Tgt Ion:240 Resp: 17750

Ion Ratio Lower Upper

240 100

120 10.6 7.2 10.8

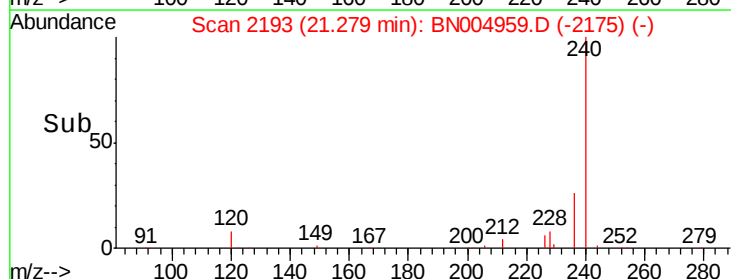
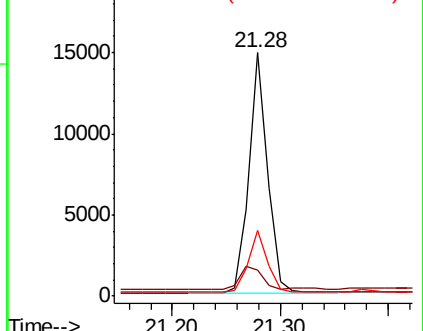
236 27.1 20.9 31.3

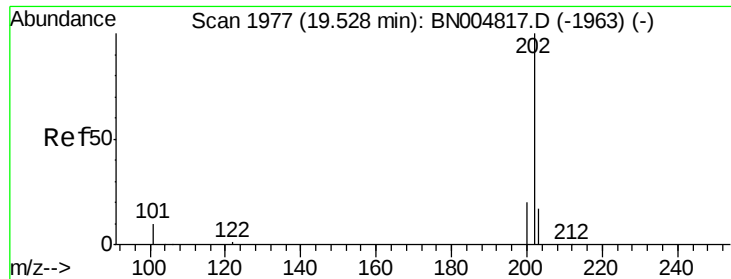


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

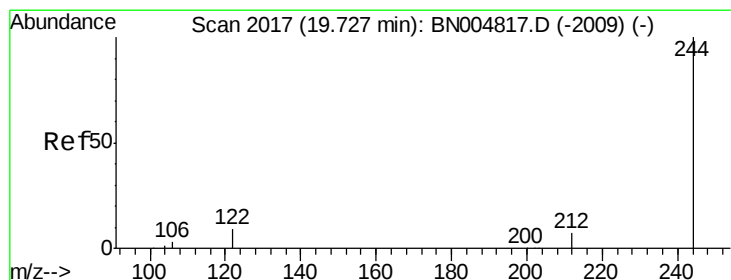
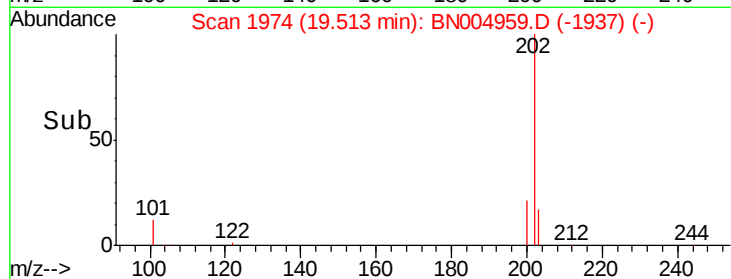
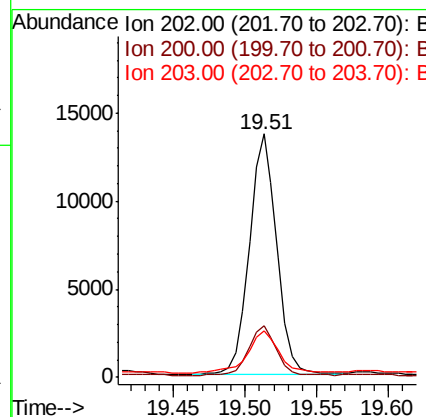
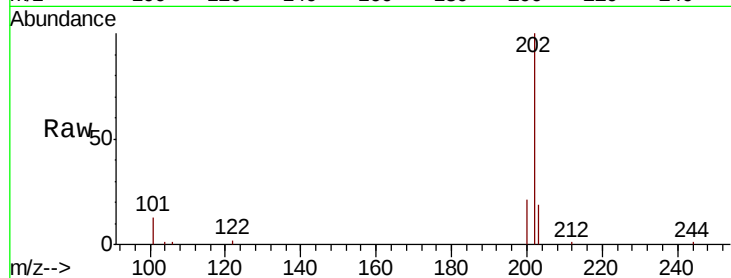




#28
 Pyrene
 Concen: 0.334 ng
 RT: 19.51 min Scan# 1974
 Delta R.T. -0.01 min
 Lab File: BN004959.D
 Acq: 25 Mar 2019 14:10

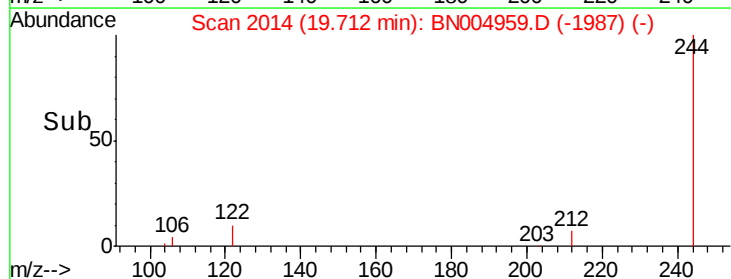
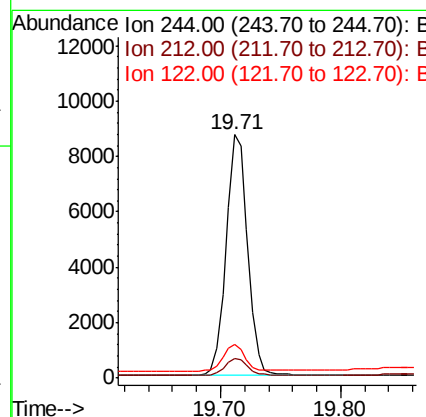
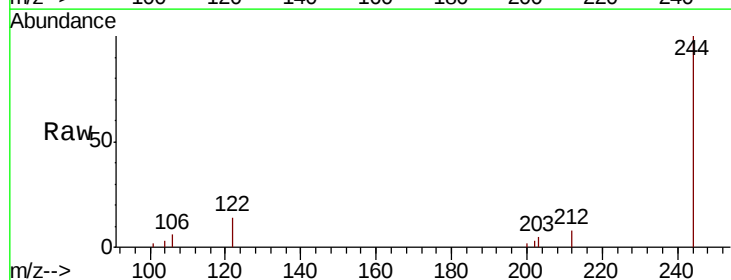
Instrument :
 BNA_N
 ClientSampleId :
 PST-026-SW039-031919

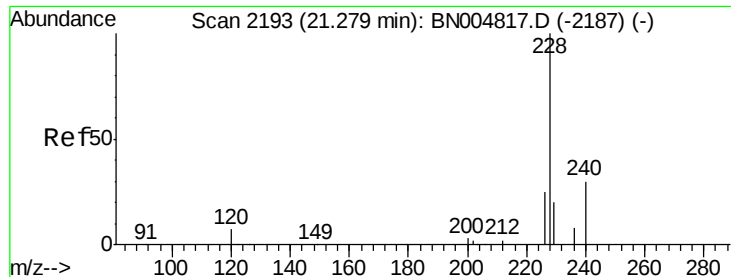
Tgt Ion: 202 Resp: 18058
 Ion Ratio Lower Upper
 202 100
 200 20.7 16.3 24.5
 203 19.9 14.0 21.0



#29
 Terphenyl-d14
 Concen: 0.296 ng
 RT: 19.71 min Scan# 2014
 Delta R.T. -0.01 min
 Lab File: BN004959.D
 Acq: 25 Mar 2019 14:10

Tgt Ion: 244 Resp: 10733
 Ion Ratio Lower Upper
 244 100
 212 8.0 5.8 8.6
 122 13.7 7.9 11.9#





#30

Benzo(a)anthracene

Concen: 0.142 ng

RT: 21.27 min Scan# 2192

Delta R.T. -0.01 min

Lab File: BN004959.D

Acq: 25 Mar 2019 14:10

Instrument :

BNA_N

ClientSampleId :

PST-026-SW039-031919

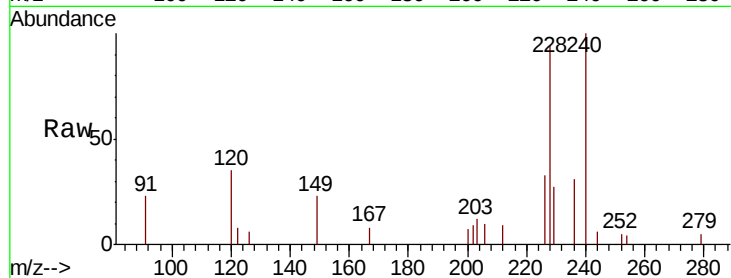
Tgt Ion:228 Resp: 8274

Ion Ratio Lower Upper

228 100

226 35.3 20.6 31.0#

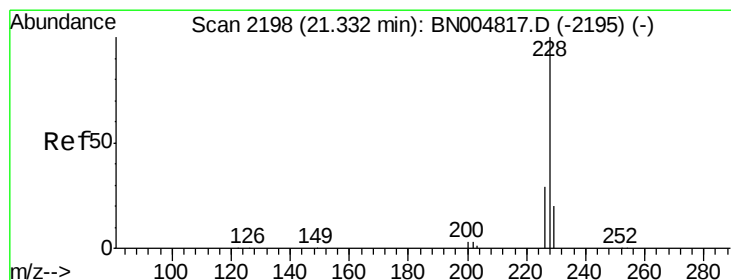
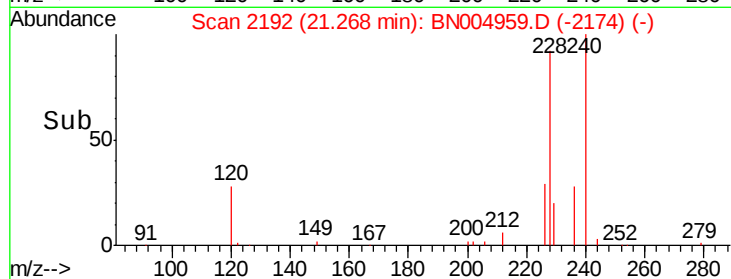
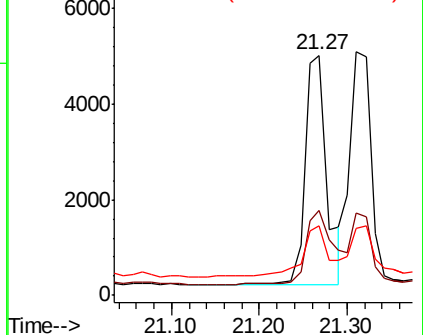
229 28.9 16.2 24.4#



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: 0.129 ng

RT: 21.31 min Scan# 2196

Delta R.T. -0.02 min

Lab File: BN004959.D

Acq: 25 Mar 2019 14:10

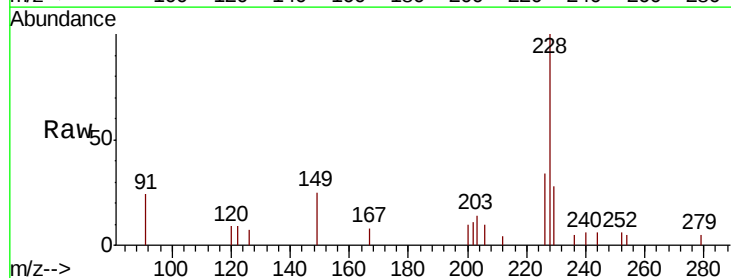
Tgt Ion:228 Resp: 7886

Ion Ratio Lower Upper

228 100

226 34.0 23.0 34.6

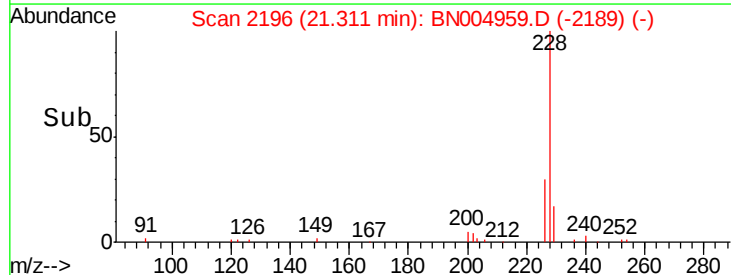
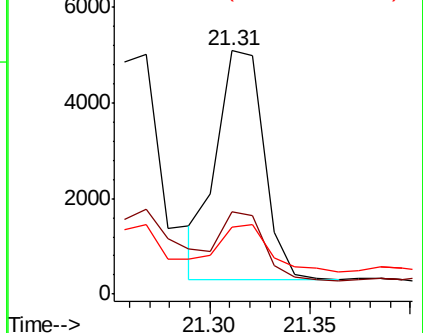
229 27.5 16.2 24.2#

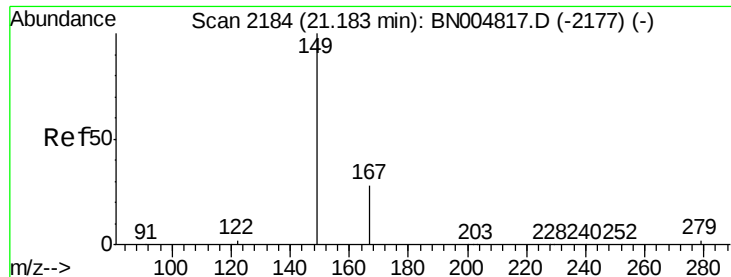


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#32

Bis(2-ethylhexyl)phthalate

Concen: 0.169 ng

RT: 21.17 min Scan# 2183

Delta R.T. -0.01 min

Lab File: BN004959.D

Acq: 25 Mar 2019 14:10

Instrument :

BNA_N

ClientSampleId :

PST-026-SW039-031919

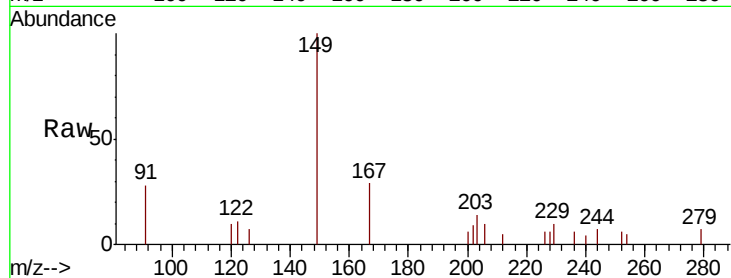
Tgt Ion:149 Resp: 3925

Ion Ratio Lower Upper

149 100

167 28.1 23.0 34.4

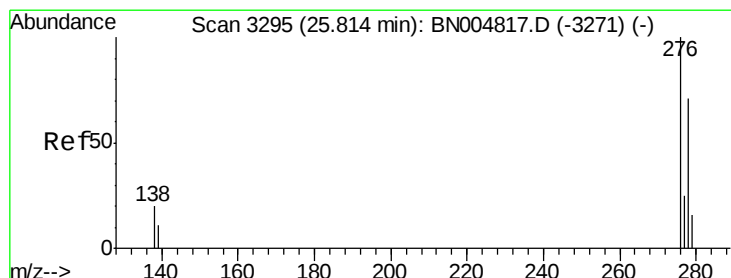
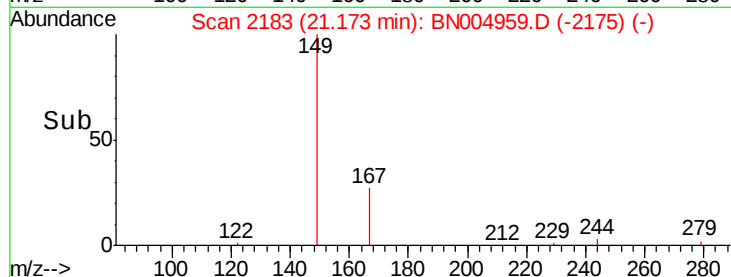
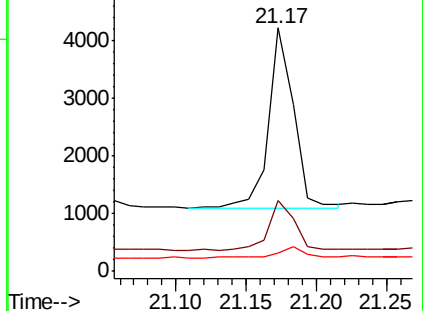
279 6.7 4.6 6.8



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: 0.068 ng

RT: 25.80 min Scan# 3290

Delta R.T. -0.02 min

Lab File: BN004959.D

Acq: 25 Mar 2019 14:10

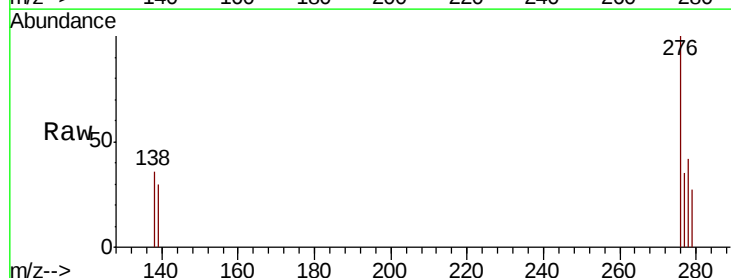
Tgt Ion:276 Resp: 6071

Ion Ratio Lower Upper

276 100

138 25.0 16.6 24.8#

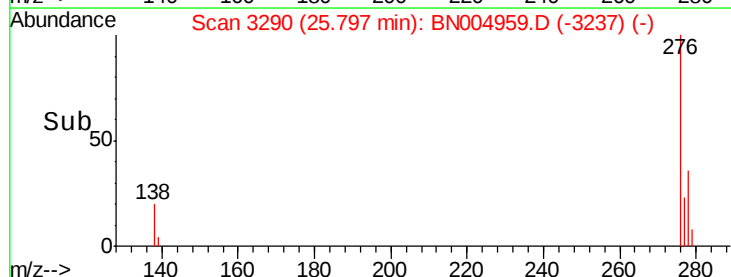
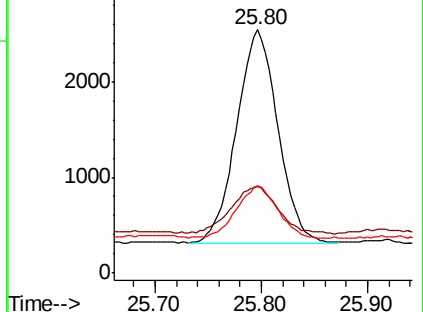
277 24.8 20.3 30.5

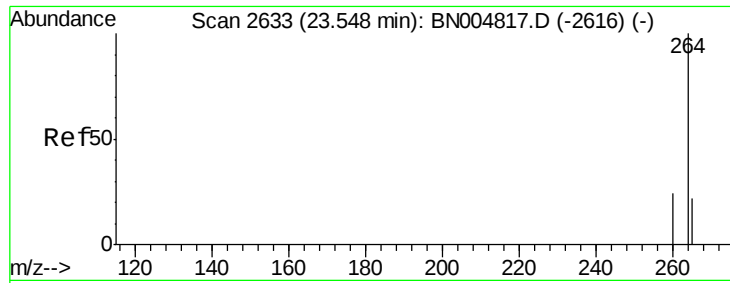


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

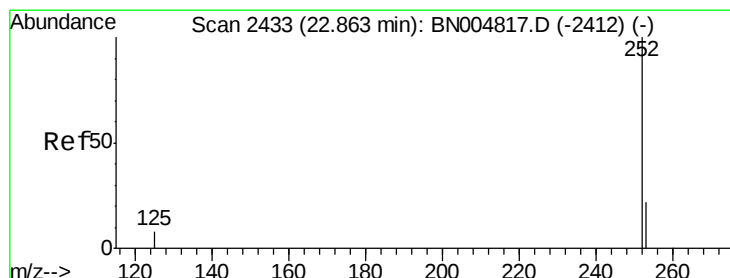
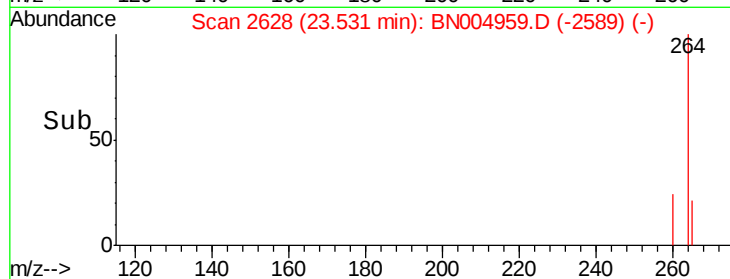
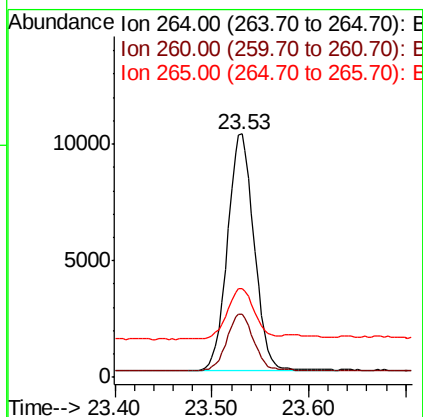
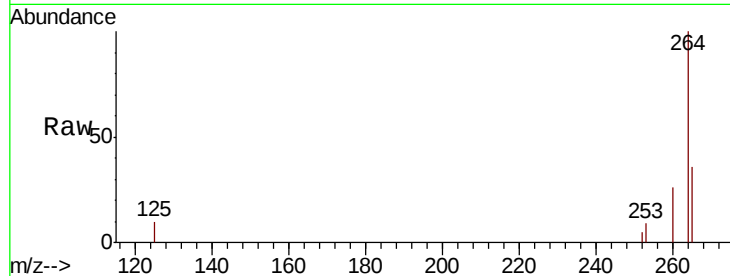




#34
Perylene-d12
 Concen: 0.400 ng
 RT: 23.53 min Scan# 2628
 Delta R.T. -0.02 min
 Lab File: BN004959.D
 Acq: 25 Mar 2019 14:10

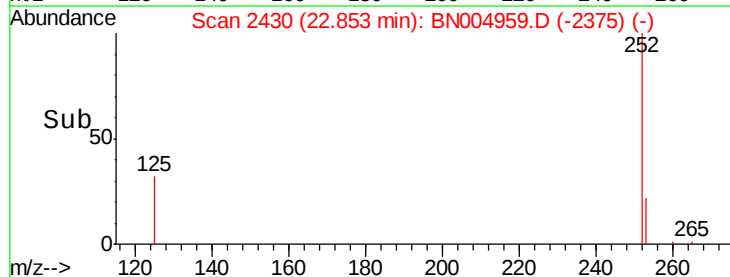
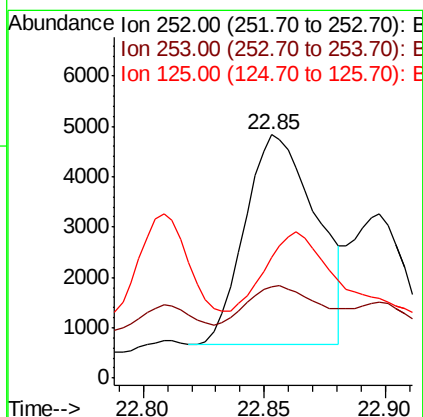
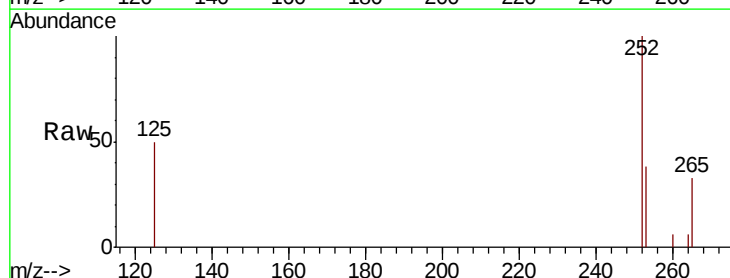
Instrument :
 BNA_N
 ClientSampleId :
 PST-026-SW039-031919

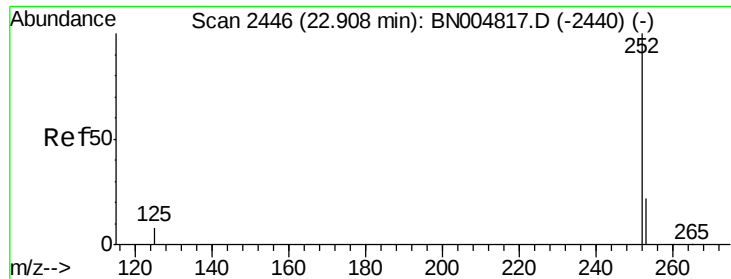
Tgt Ion: 264 Resp: 19506
 Ion Ratio Lower Upper
 264 100
 260 26.1 19.5 29.3
 265 36.4 23.1 34.7#



#35
Benzo(b)fluoranthene
 Concen: 0.121 ng
 RT: 22.85 min Scan# 2430
 Delta R.T. -0.01 min
 Lab File: BN004959.D
 Acq: 25 Mar 2019 14:10

Tgt Ion: 252 Resp: 8547
 Ion Ratio Lower Upper
 252 100
 253 37.5 19.0 28.4#
 125 49.8 7.4 11.2#





#36

Benzo(k)fluoranthene

Concen: 0.123 ng

RT: 22.85 min Scan# 2430

Delta R.T. -0.05 min

Lab File: BN004959.D

Acq: 25 Mar 2019 14:10

Instrument :

BNA_N

ClientSampleId :

PST-026-SW039-031919

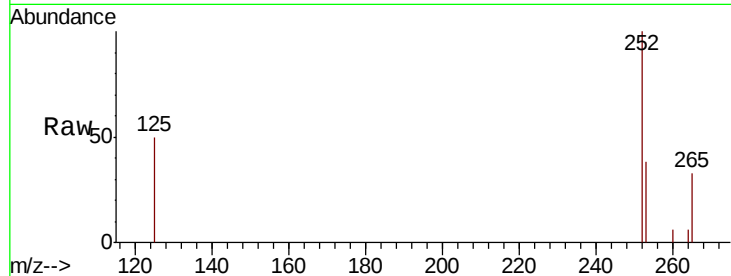
Tgt Ion:252 Resp: 8547

Ion Ratio Lower Upper

252 100

253 37.5 19.3 28.9#

125 49.8 7.4 11.0#

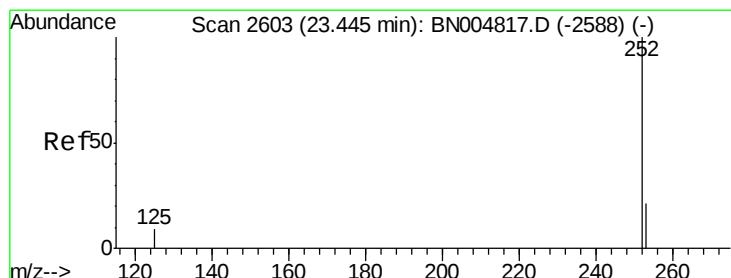
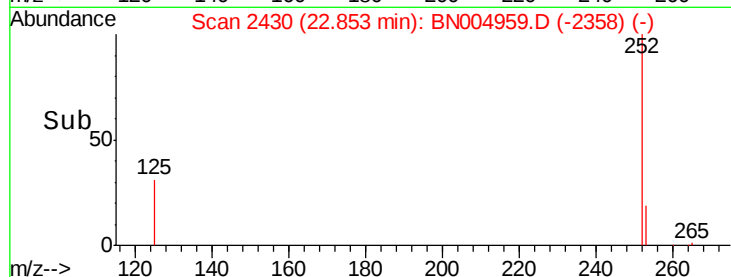
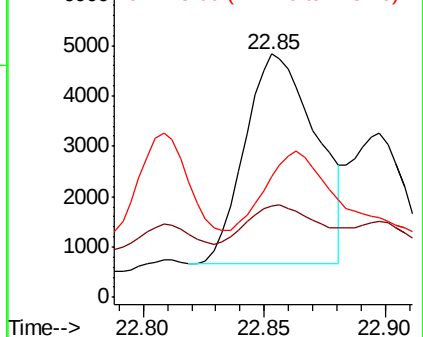


Abundance

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: 0.109 ng

RT: 23.43 min Scan# 2599

Delta R.T. -0.01 min

Lab File: BN004959.D

Acq: 25 Mar 2019 14:10

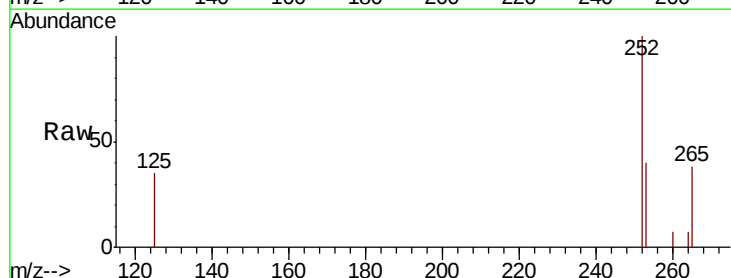
Tgt Ion:252 Resp: 7045

Ion Ratio Lower Upper

252 100

253 40.3 19.7 29.5#

125 34.9 8.3 12.5#

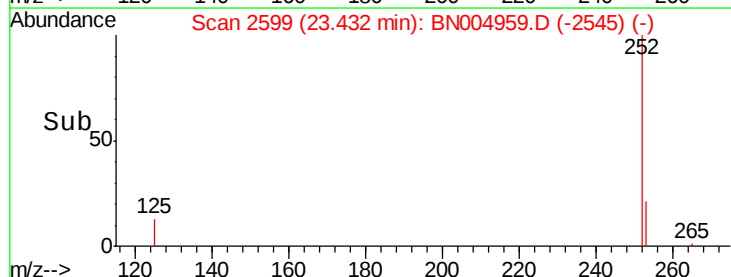
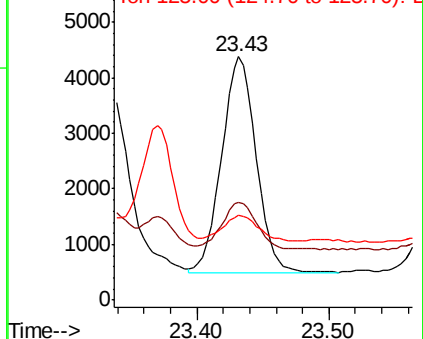


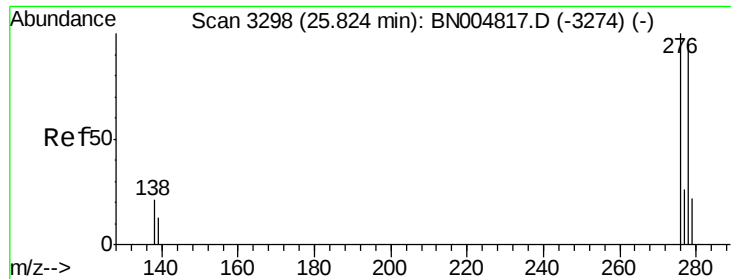
Abundance

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: 0.033 ng

RT: 25.80 min Scan# 3292

Delta R.T. -0.02 min

Lab File: BN004959.D

Acq: 25 Mar 2019 14:10

Instrument :

BNA_N

ClientSampleId :

PST-026-SW039-031919

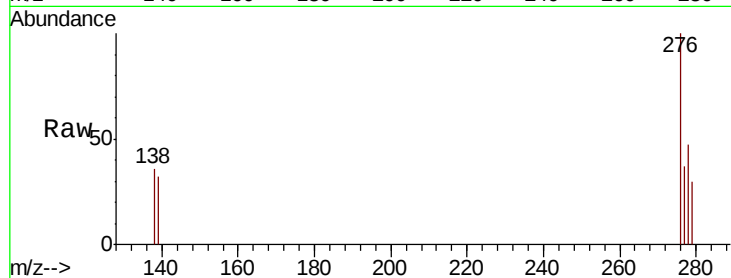
Tgt Ion: 278 Resp: 2511

Ion Ratio Lower Upper

278 100

139 68.4 11.7 17.5#

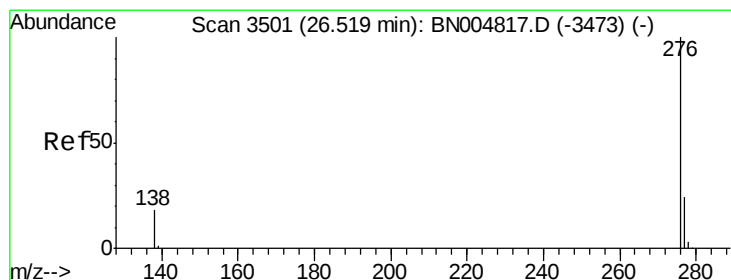
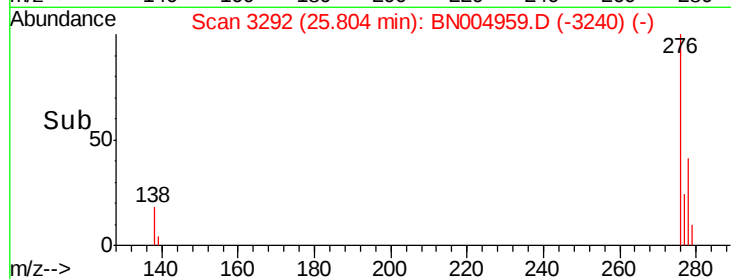
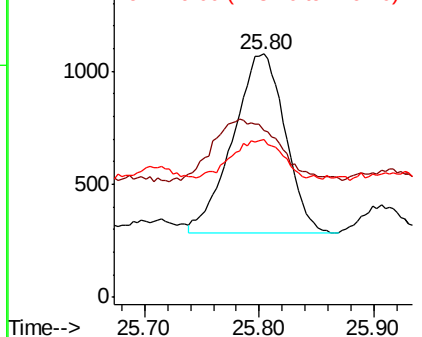
279 64.9 19.9 29.9#



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(g,h,i)perylene

Concen: 0.096 ng

RT: 26.49 min Scan# 3494

Delta R.T. -0.02 min

Lab File: BN004959.D

Acq: 25 Mar 2019 14:10

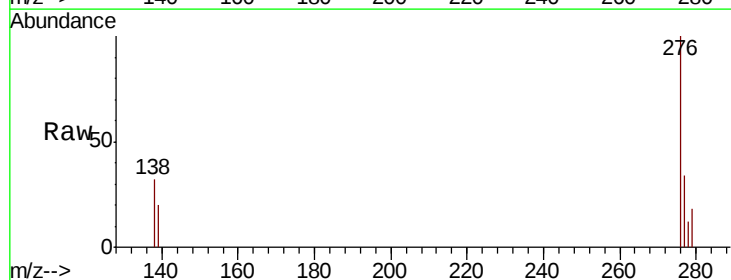
Tgt Ion: 276 Resp: 7334

Ion Ratio Lower Upper

276 100

277 34.0 19.7 29.5#

138 32.4 14.6 22.0#



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

