

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN032219\
 Data File : BN004894.D
 Acq On : 22 Mar 2019 21:23
 Operator : JU/SJ
 Sample : K2013-02
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PST-026-B119-031819

Quant Time: Mar 23 02:49:07 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	7.69	152	2877	0.40	ng	0.00
7) Naphthalene-d8	10.48	136	12160	0.40	ng	-0.01
13) Acenaphthene-d10	14.33	164	7197	0.40	ng	-0.01
19) Phenanthrene-d10	17.08	188	17880	0.40	ng	-0.01
27) Chrysene-d12	21.28	240	24317	0.40	ng	-0.01
34) Perylene-d12	23.53	264	26072	0.40	ng	-0.01

System Monitoring Compounds						
4) 2-Fluorophenol	5.28	112	2736	0.35	ng	0.00
5) Phenol-d6	6.86	99	3949	0.41	ng	-0.02
8) Nitrobenzene-d5	8.86	82	2455	0.31	ng	-0.01
11) 2-Methylnaphthalene-d10	12.07	152	5796	0.27	ng	0.00
14) 2,4,6-Tribromophenol	15.84	330	2401	0.48	ng	-0.01
15) 2-Fluorobiphenyl	12.95	172	10203	0.34	ng	-0.01
25) Fluoranthene-d10	19.12	212	16063	0.27	ng	-0.01
29) Terphenyl-d14	19.72	244	22735	0.46	ng	-0.01

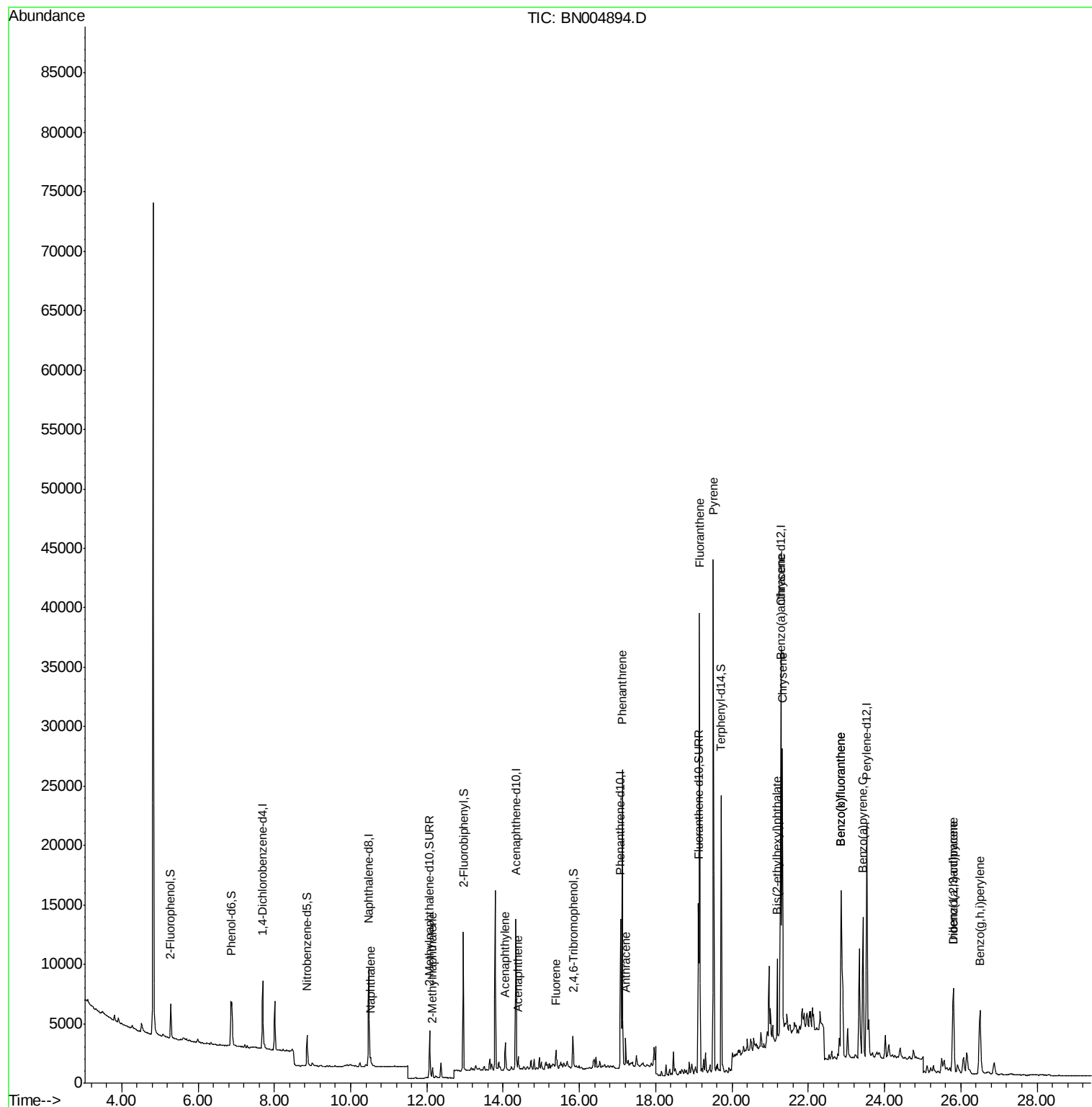
Target Compounds				Qvalue		
9) Naphthalene	10.53	128	728	0.021	ng	# 75
12) 2-Methylnaphthalene	12.15	142	627	0.025	ng	# 93
16) Acenaphthylene	14.05	152	2518	0.068	ng	97
17) Acenaphthene	14.40	154	624	0.026	ng	90
18) Fluorene	15.39	166	1235	0.036	ng	# 88
23) Phenanthrene	17.12	178	26094	0.452	ng	99
24) Anthracene	17.22	178	2598	0.050	ng	97
26) Fluoranthene	19.15	202	33411	0.450	ng	99
28) Pyrene	19.51	202	40124	0.541	ng	97
30) Benzo(a)anthracene	21.27	228	19048	0.239	ng	96
31) Chrysene	21.32	228	21386	0.255	ng	97
32) Bis(2-ethylhexyl)phthalate	21.18	149	5716	0.179	ng	98
33) Indeno(1,2,3-cd)pyrene	25.80	276	11168	0.092	ng	99
35) Benzo(b)fluoranthene	22.86	252	24164	0.256	ng	# 85
36) Benzo(k)fluoranthene	22.86	252	24164	0.260	ng	# 86
37) Benzo(a)pyrene	23.43	252	16861	0.195	ng	# 94
38) Dibenzo(a,h)anthracene	25.81	278	3150	0.031	ng	# 54
39) Benzo(a,h,i)perylene	26.50	276	11479	0.112	ng	95

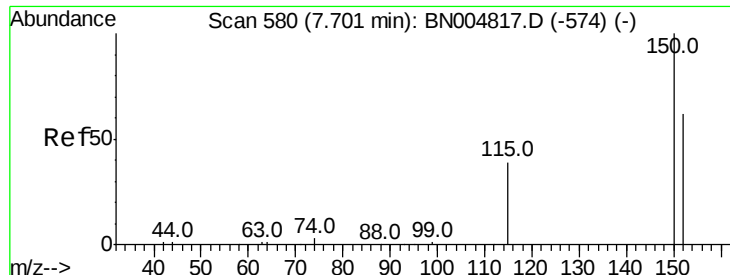
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.69 min Scan# 579

Delta R.T. -0.01 min

Lab File: BN004894.D

Acq: 22 Mar 2019 21:23

Instrument :

BNA_N

ClientSampleId :

PST-026-B119-031819

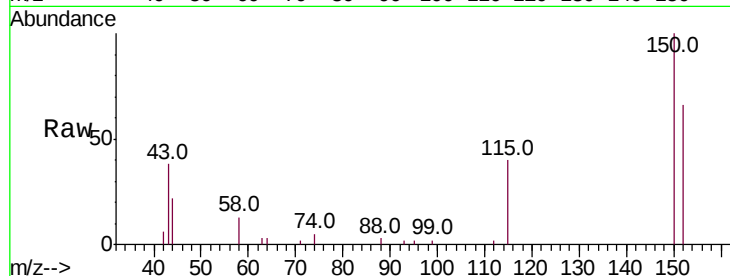
Tot Ion:152 Resp: 2877

Ion Ratio Lower Upper

152 100

150 152.4 126.2 189.4

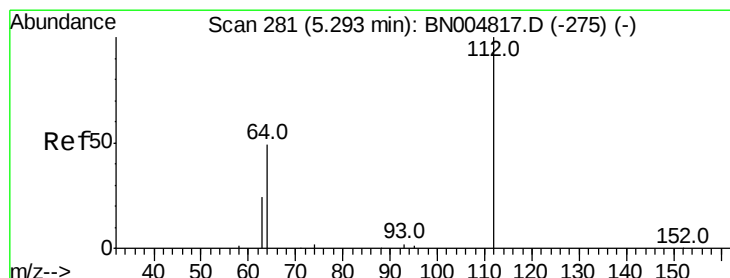
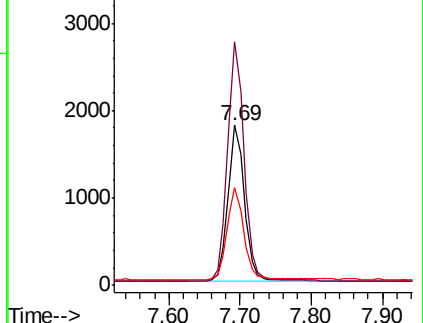
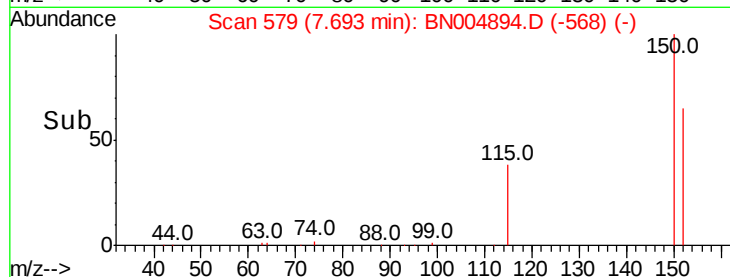
115 61.3 52.6 79.0



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: 0.350 ng

RT: 5.28 min Scan# 280

Delta R.T. -0.01 min

Lab File: BN004894.D

Acq: 22 Mar 2019 21:23

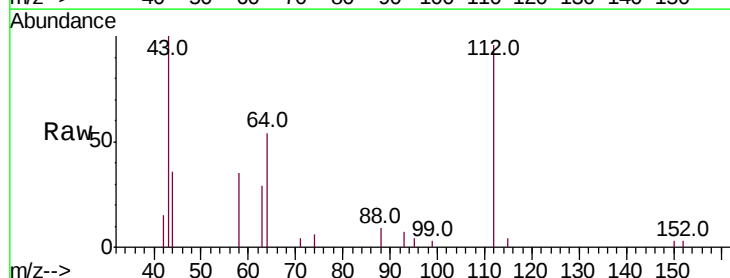
Tgt Ion:112 Resp: 2736

Ion Ratio Lower Upper

112 100

64 51.1 40.0 60.0

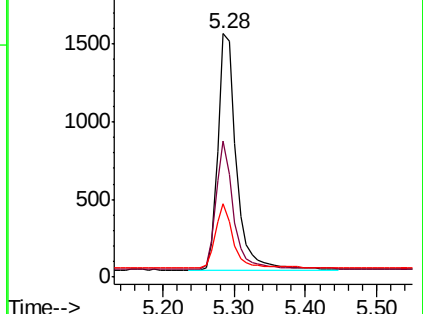
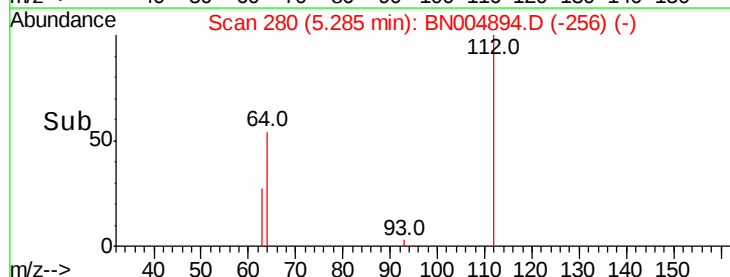
63 25.7 20.2 30.2



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: 0.406 ng

RT: 6.86 min Scan# 476

Delta R.T. -0.02 min

Lab File: BN004894.D

Acq: 22 Mar 2019 21:23

Instrument :

BNA_N

ClientSampleId :

PST-026-B119-031819

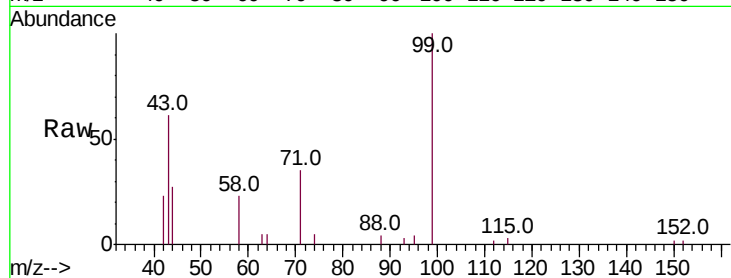
Tot Ion: 99 Resp: 3949

Ion Ratio Lower Upper

99 100

42 19.2 12.7 19.1#

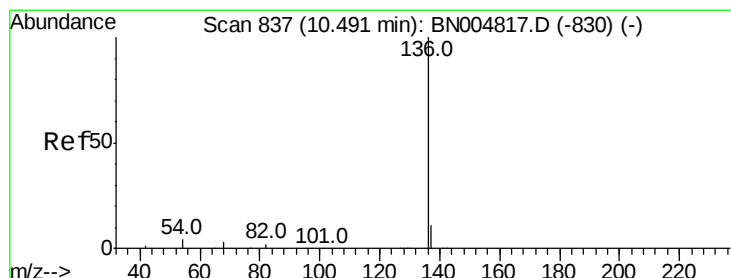
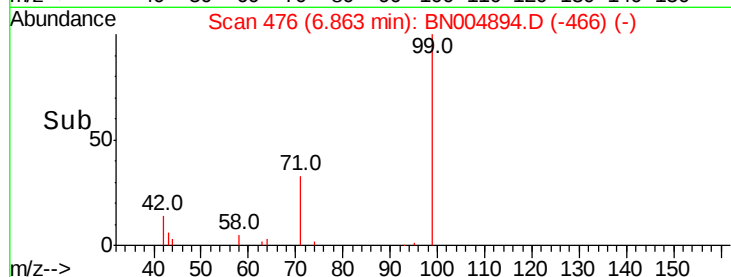
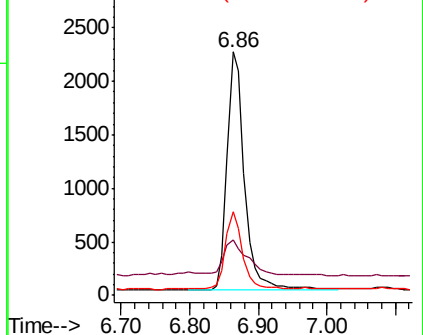
71 31.7 26.6 40.0



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: 10.48 min Scan# 836

Delta R.T. -0.01 min

Lab File: BN004894.D

Acq: 22 Mar 2019 21:23

Tgt Ion: 136 Resp: 12160

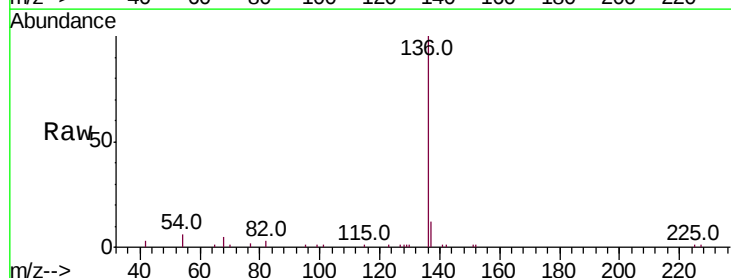
Ion Ratio Lower Upper

136 100

137 11.7 9.6 14.4

54 5.8 4.2 6.2

68 5.0 3.9 5.9

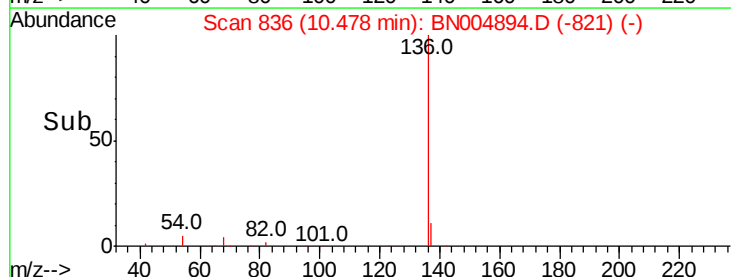
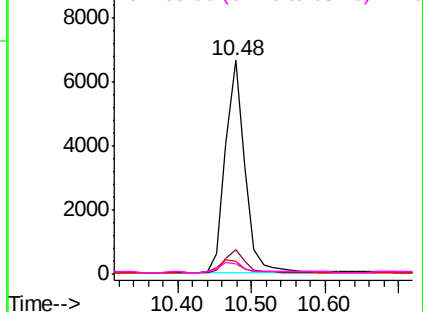


Abundance Ion 136.00 (135.70 to 136.70): BN004817.D (-830) (-)

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: 0.305 ng

RT: 8.86 min Scan# 708

Delta R.T. -0.01 min

Lab File: BN004894.D

Acq: 22 Mar 2019 21:23

Instrument :

BNA_N

ClientSampleId :

PST-026-B119-031819

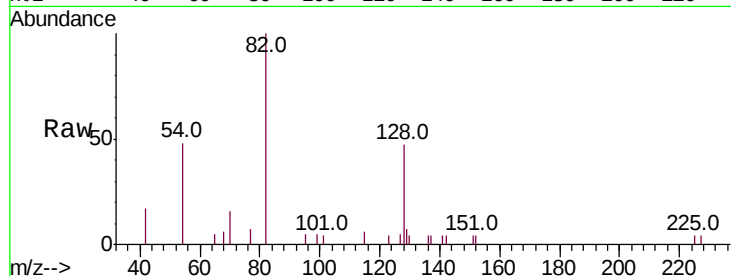
Tot Ion: 82 Resp: 2455

Ion Ratio Lower Upper

82 100

128 46.9 43.0 64.6

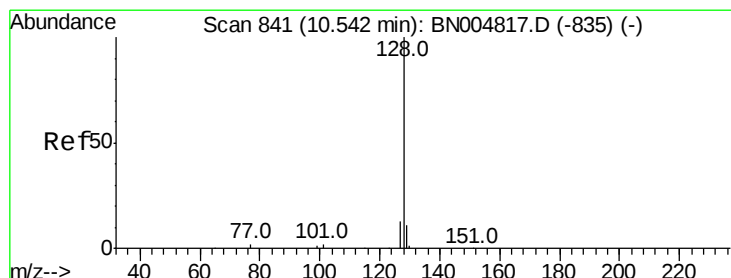
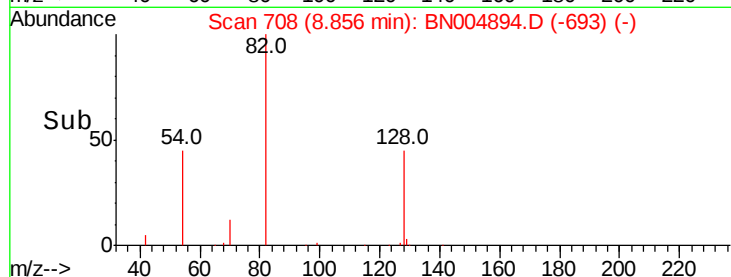
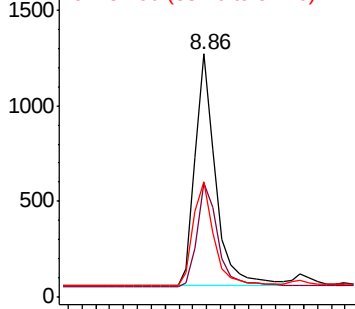
54 47.6 35.3 52.9



Abundance Ion 82.00 (81.70 to 82.70): BN004817.D (-704) (-)

Ion 128.00 (127.70 to 128.70): BN004817.D (-704) (-)

Ion 54.00 (53.70 to 54.70): BN004817.D (-704) (-)



#9

Naphthalene

Concen: 0.021 ng

RT: 10.53 min Scan# 840

Delta R.T. -0.01 min

Lab File: BN004894.D

Acq: 22 Mar 2019 21:23

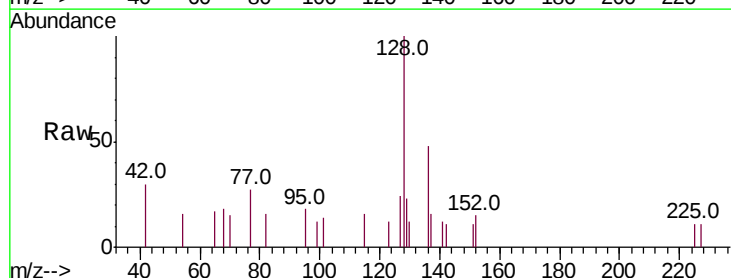
Tgt Ion: 128 Resp: 728

Ion Ratio Lower Upper

128 100

129 23.0 9.9 14.9#

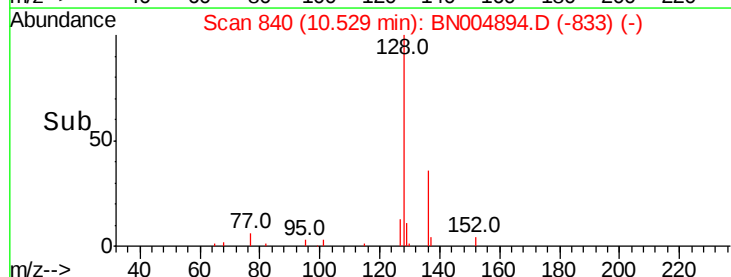
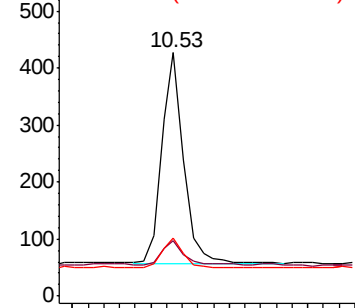
127 23.7 11.3 16.9#

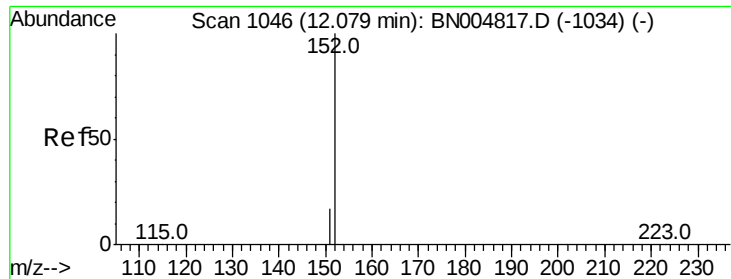


Abundance Ion 128.00 (127.70 to 128.70): BN004817.D (-835) (-)

Ion 129.00 (128.70 to 129.70): BN004817.D (-835) (-)

Ion 127.00 (126.70 to 127.70): BN004817.D (-835) (-)

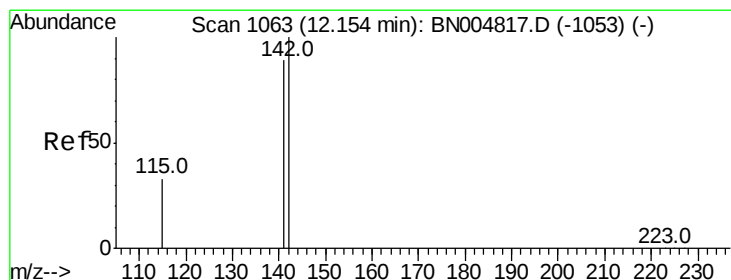
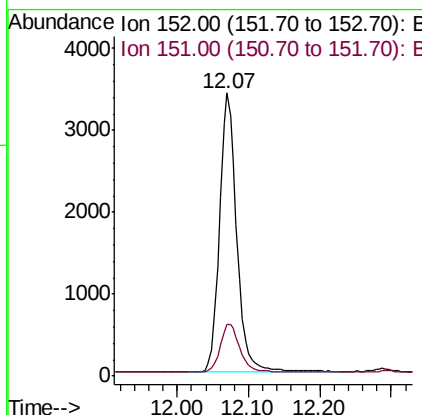
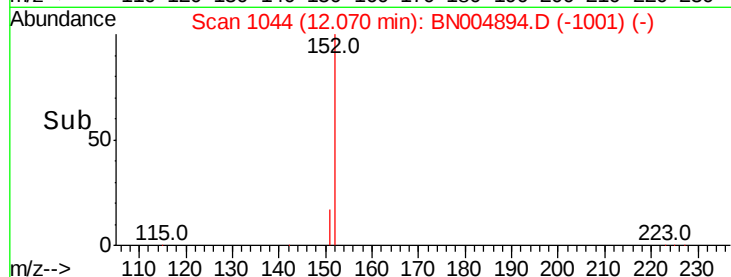
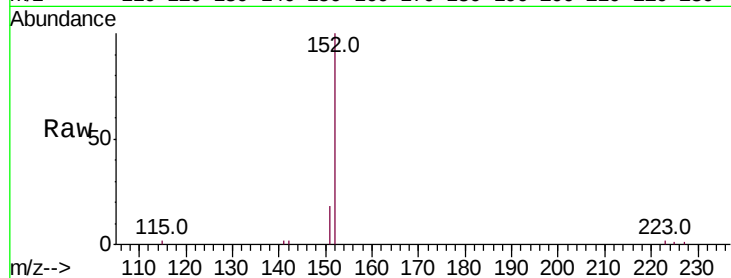




#11
 2-Methylnaphthalene-d10
 Concen: 0.273 ng
 RT: 12.07 min Scan# 1044
 Delta R.T. -0.01 min
 Lab File: BN004894.D
 Acq: 22 Mar 2019 21:23

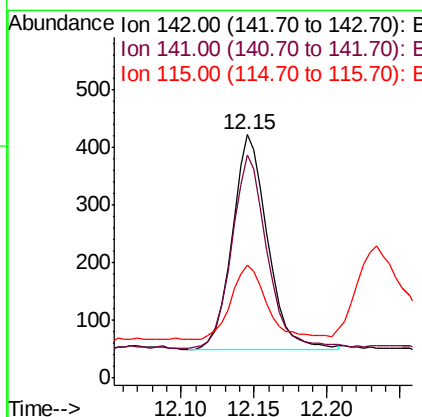
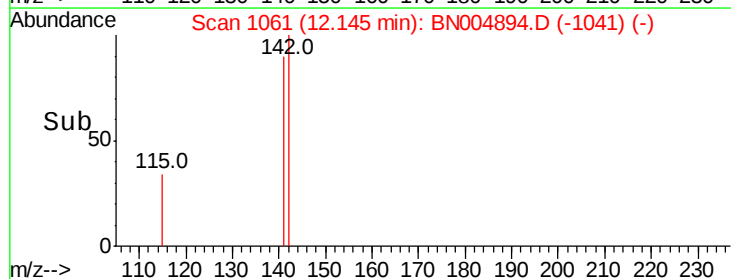
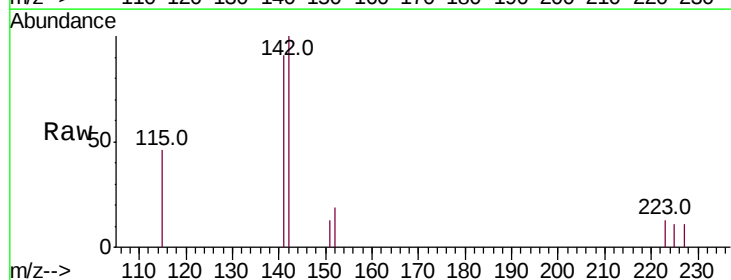
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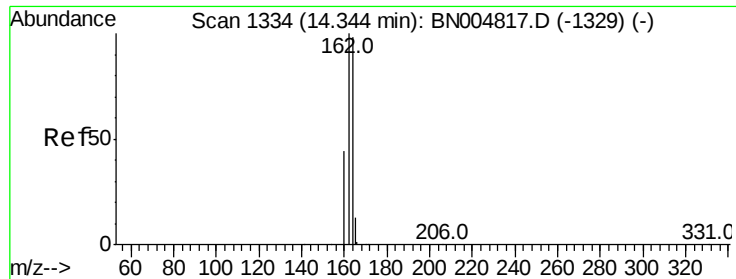
Tot Ion:152 Resp: 5796
 Ion Ratio Lower Upper
 152 100
 151 19.3 15.5 23.3



#12
 2-Methylnaphthalene
 Concen: 0.025 ng
 RT: 12.15 min Scan# 1061
 Delta R.T. -0.01 min
 Lab File: BN004894.D
 Acq: 22 Mar 2019 21:23

Tgt Ion:142 Resp: 627
 Ion Ratio Lower Upper
 142 100
 141 91.5 71.4 107.2
 115 46.2 27.5 41.3#





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.33 min Scan# 1333

Delta R.T. -0.01 min

Lab File: BN004894.D

Acq: 22 Mar 2019 21:23

Instrument :

BNA_N

ClientSampleId :

PST-026-B119-031819

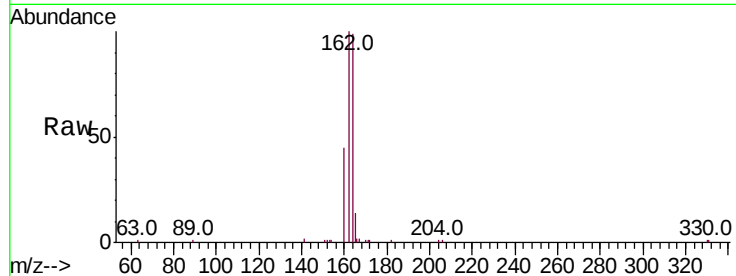
Tot Ion:164 Resp: 7197

Ion Ratio Lower Upper

164 100

162 101.3 81.9 122.9

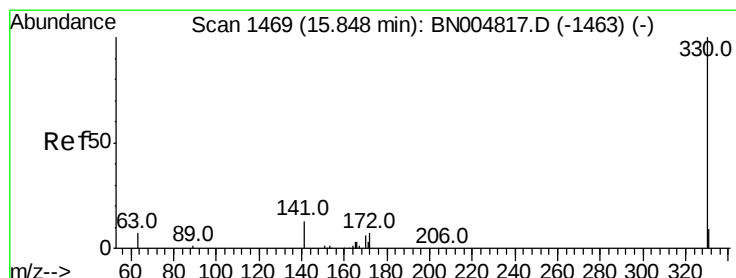
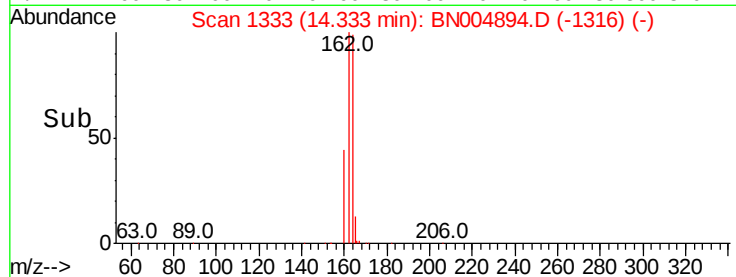
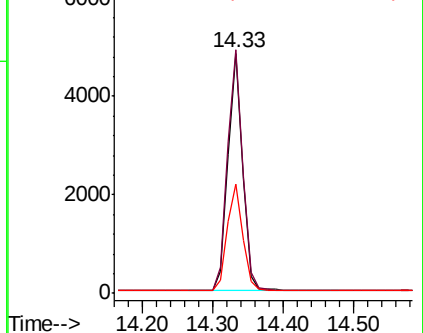
160 45.4 36.6 54.8



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: 0.483 ng

RT: 15.84 min Scan# 1468

Delta R.T. -0.01 min

Lab File: BN004894.D

Acq: 22 Mar 2019 21:23

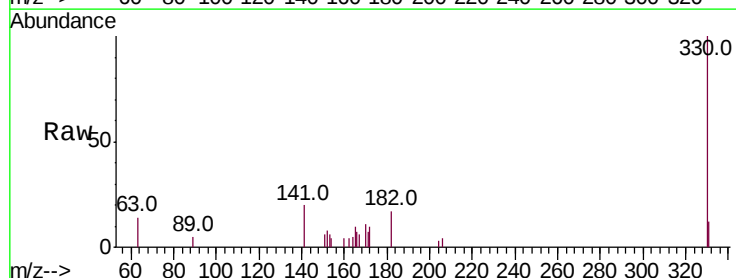
Tgt Ion:330 Resp: 2401

Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

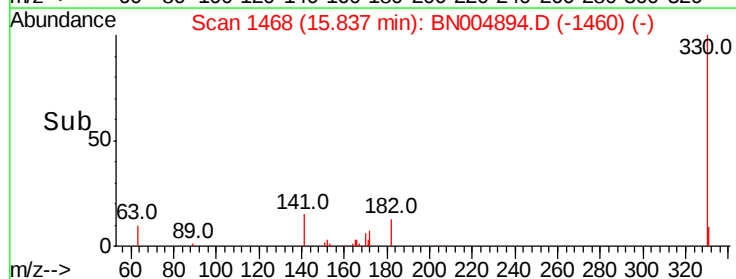
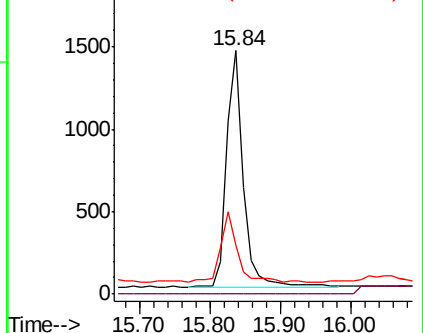
141 30.0 20.9 31.3

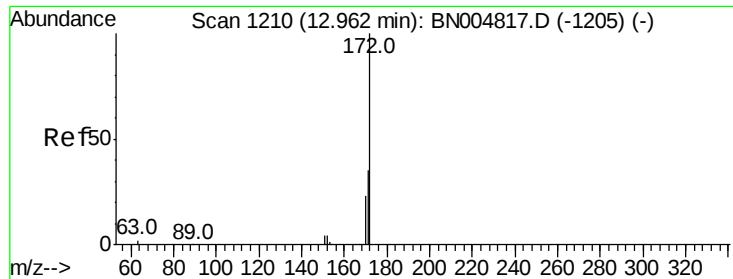


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

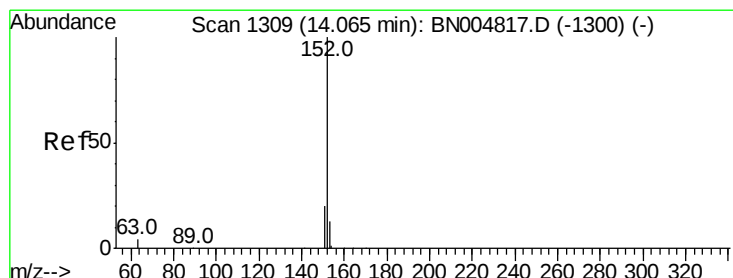
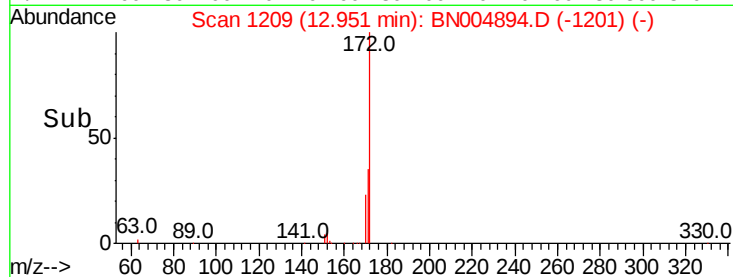
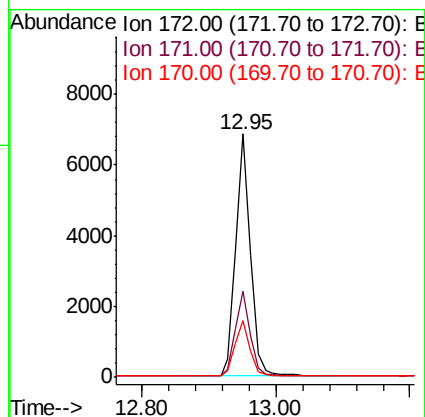
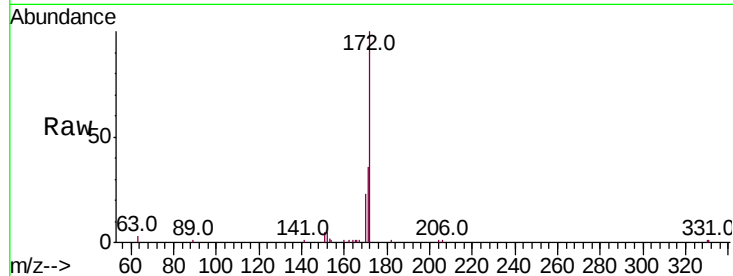




#15
2-Fluorobiphenyl
Concen: 0.343 ng
RT: 12.95 min Scan# 1209
Delta R.T. -0.01 min
Lab File: BN004894.D
Acq: 22 Mar 2019 21:23

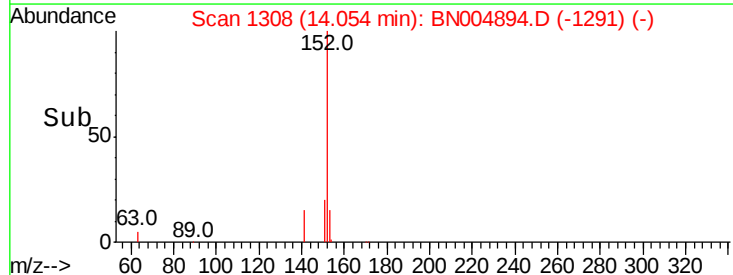
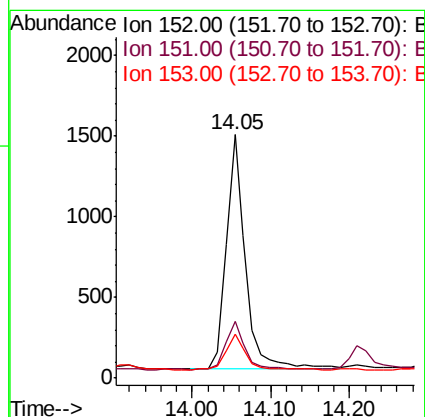
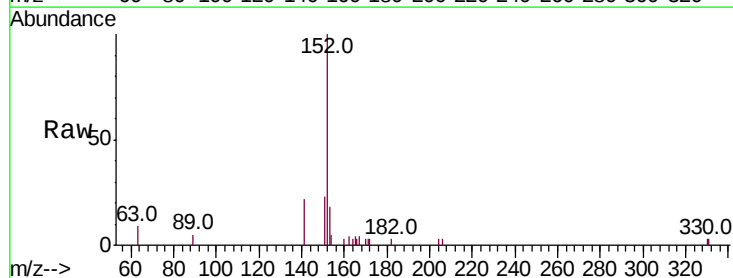
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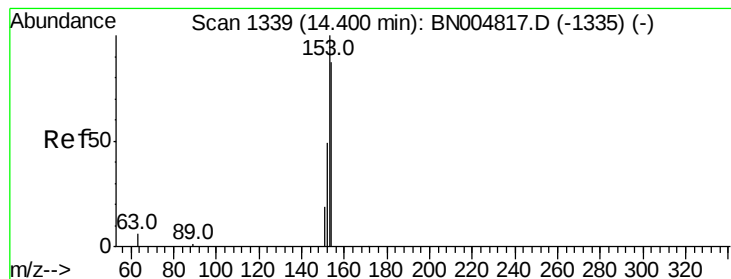
Tot Ion:172 Resp: 10203
Ion Ratio Lower Upper
172 100
171 35.6 28.7 43.1
170 23.2 18.7 28.1



#16
Acenaphthylene
Concen: 0.068 ng
RT: 14.05 min Scan# 1308
Delta R.T. -0.01 min
Lab File: BN004894.D
Acq: 22 Mar 2019 21:23

Tgt Ion:152 Resp: 2518
Ion Ratio Lower Upper
152 100
151 20.8 16.1 24.1
153 15.3 10.5 15.7





#17

Acenaphthene

Concen: 0.026 ng

RT: 14.40 min Scan# 1339

Delta R.T. -0.00 min

Lab File: BN004894.D

Acq: 22 Mar 2019 21:23

Instrument :

BNA_N

ClientSampleId :

PST-026-B119-031819

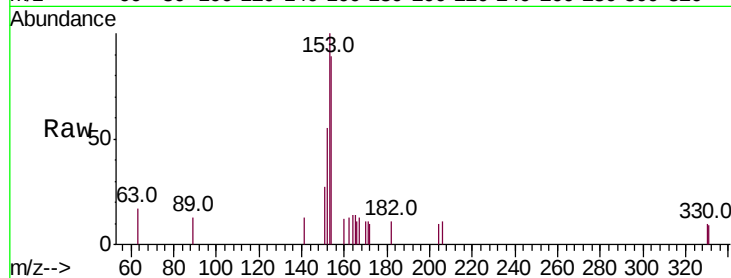
Tot Ion:154 Resp: 624

Ion Ratio Lower Upper

154 100

153 123.2 91.4 137.2

152 65.2 44.2 66.2



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

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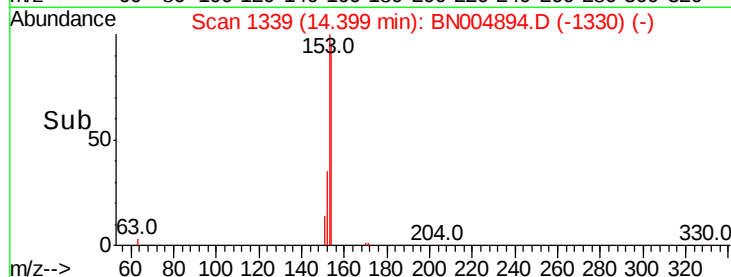
14.40

14.40

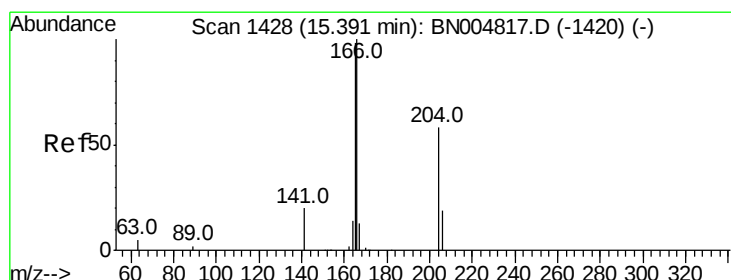
14.40

14.40

14.40



Time-->



#18

Fluorene

Concen: 0.036 ng

RT: 15.39 min Scan# 1428

Delta R.T. -0.00 min

Lab File: BN004894.D

Acq: 22 Mar 2019 21:23

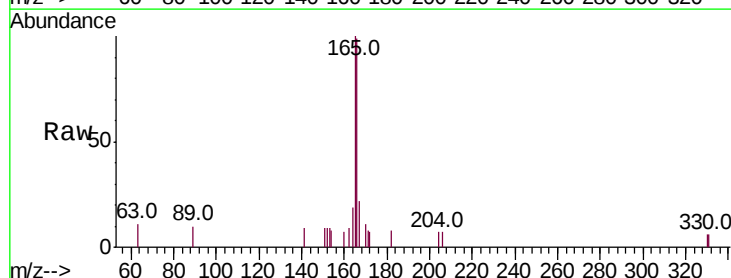
Tgt Ion:166 Resp: 1235

Ion Ratio Lower Upper

166 100

165 108.6 78.2 117.4

167 23.2 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

15.39

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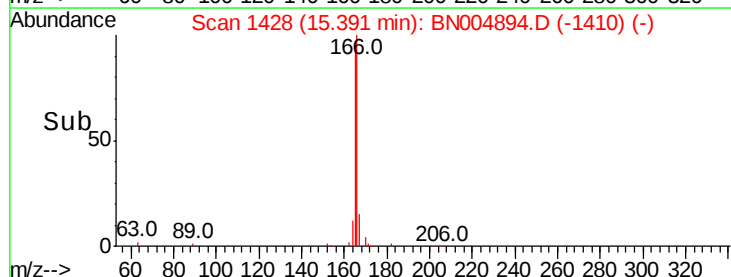
15.39

15.39

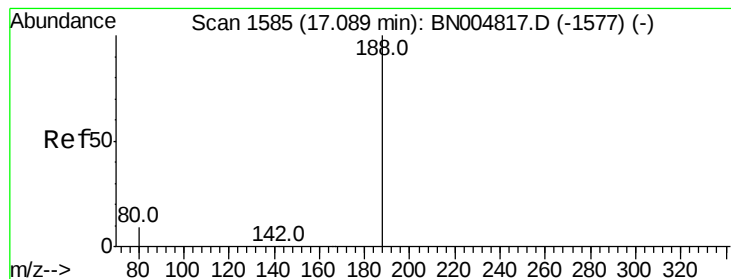
15.39

15.39

15.39



Time-->



#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.08 min Scan# 1584

Delta R.T. -0.01 min

Lab File: BN004894.D

Acq: 22 Mar 2019 21:23

Instrument :

BNA_N

ClientSampleId :

PST-026-B119-031819

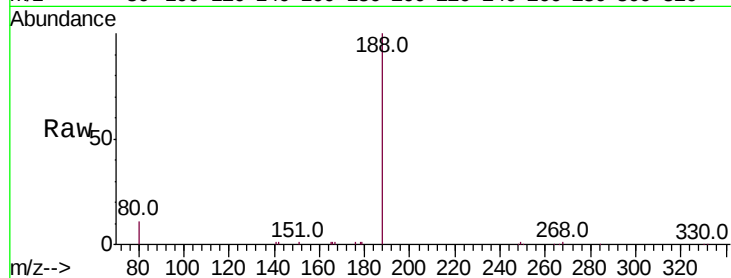
Tot Ion:188 Resp: 17880

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

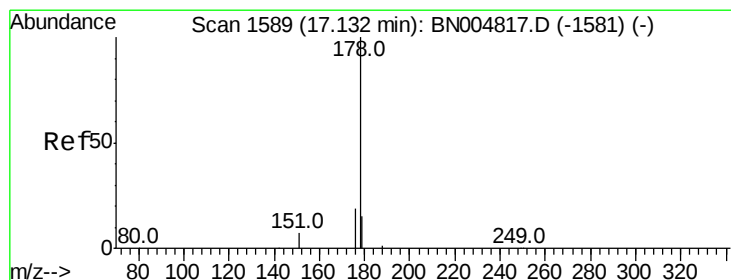
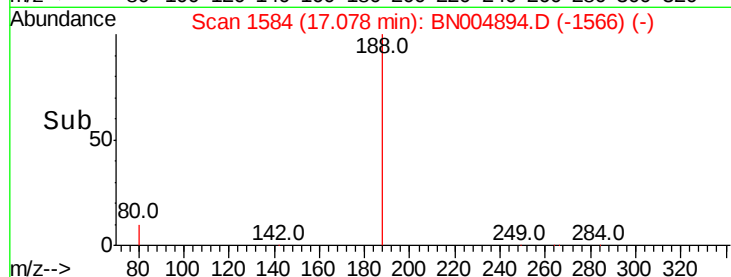
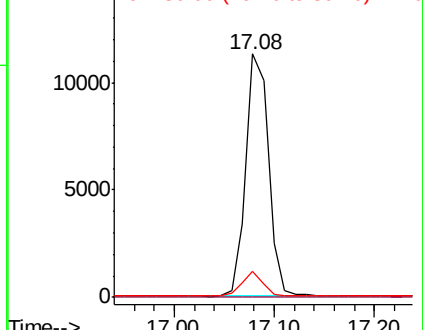
80 10.9 7.4 11.2



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



#23

Phenanthrene

Concen: 0.452 ng

RT: 17.12 min Scan# 1588

Delta R.T. -0.01 min

Lab File: BN004894.D

Acq: 22 Mar 2019 21:23

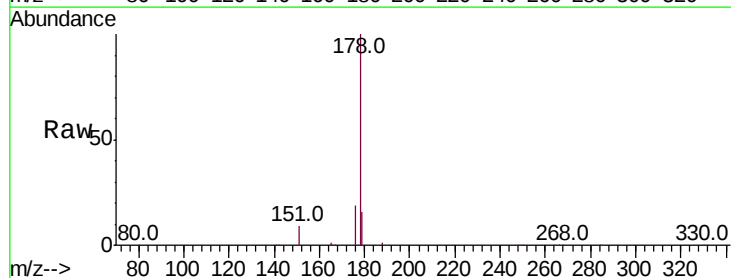
Tgt Ion:178 Resp: 26094

Ion Ratio Lower Upper

178 100

176 18.8 14.9 22.3

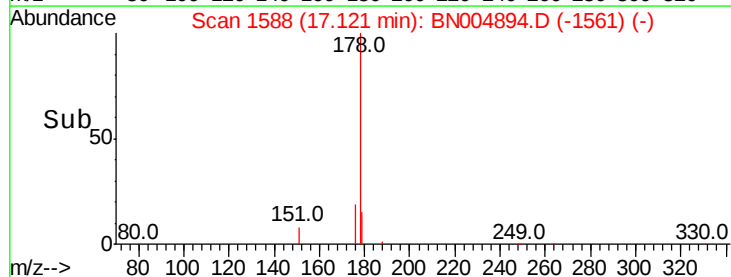
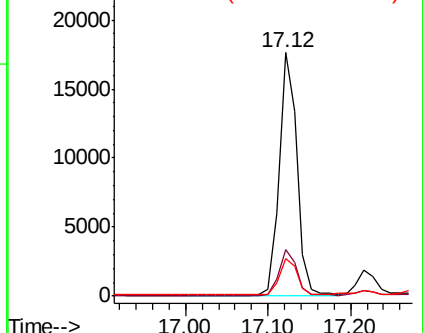
179 15.6 12.1 18.1

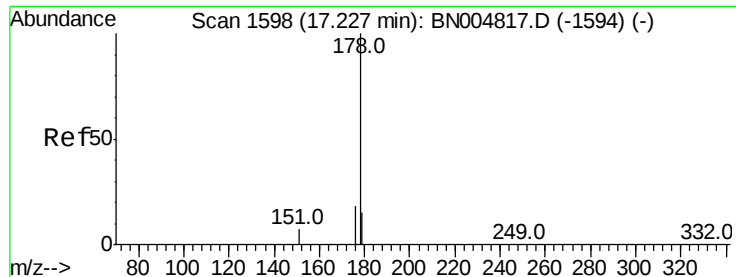


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#24

Anthracene

Concen: 0.050 ng

RT: 17.22 min Scan# 1597

Delta R.T. -0.01 min

Lab File: BN004894.D

Acq: 22 Mar 2019 21:23

Instrument :

BNA_N

ClientSampleId :

PST-026-B119-031819

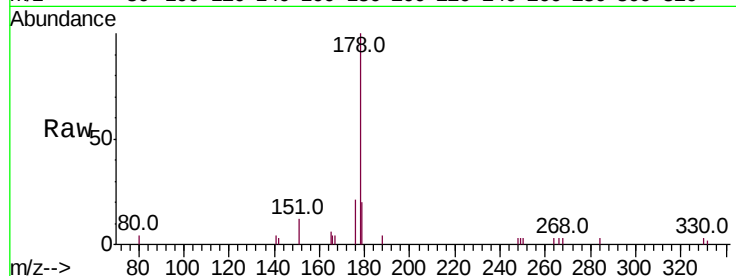
Tot Ion:178 Resp: 2598

Ion Ratio Lower Upper

178 100

176 17.7 14.5 21.7

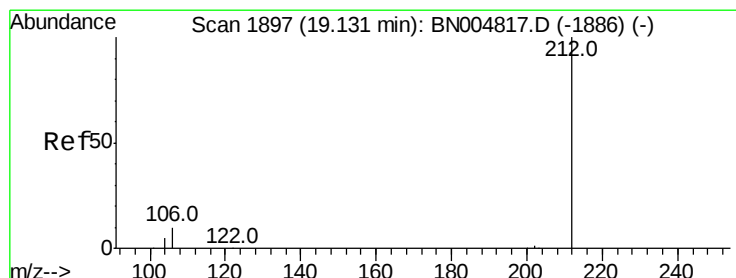
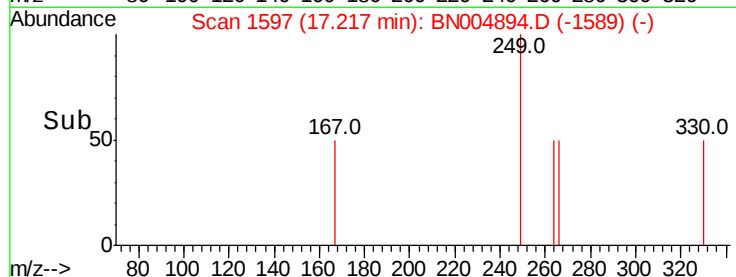
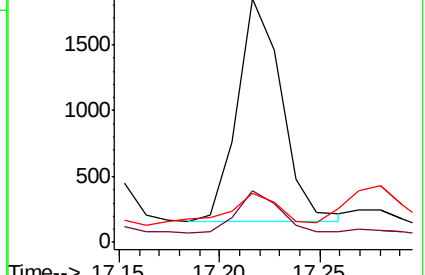
179 17.4 12.2 18.4



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: 0.268 ng

RT: 19.12 min Scan# 1895

Delta R.T. -0.01 min

Lab File: BN004894.D

Acq: 22 Mar 2019 21:23

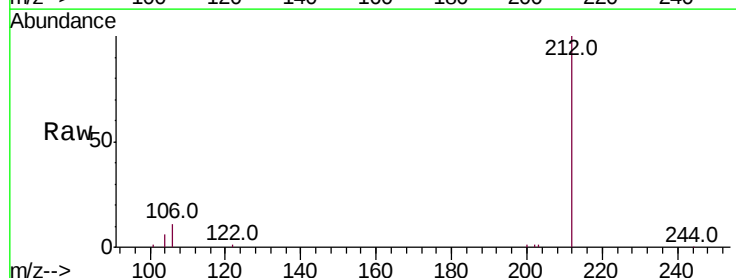
Tgt Ion:212 Resp: 16063

Ion Ratio Lower Upper

212 100

106 11.7 8.6 13.0

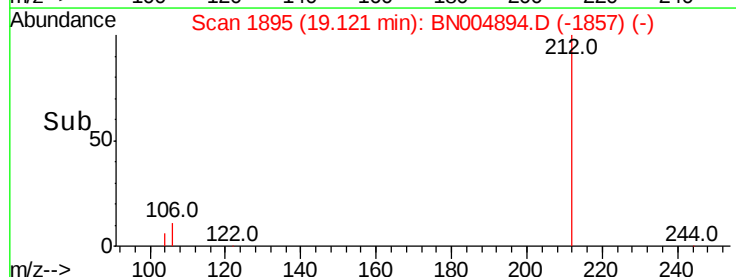
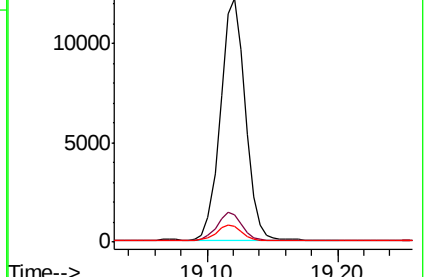
104 6.3 4.7 7.1

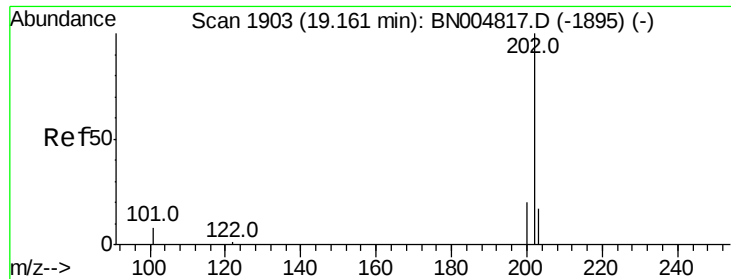


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E

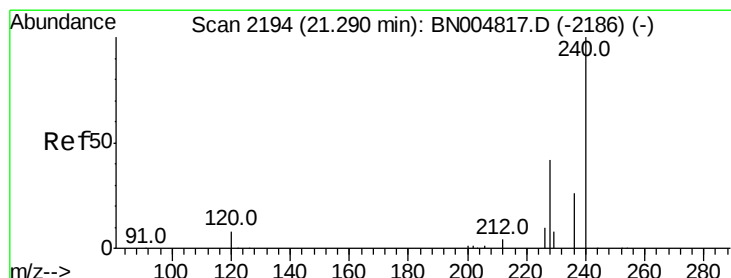
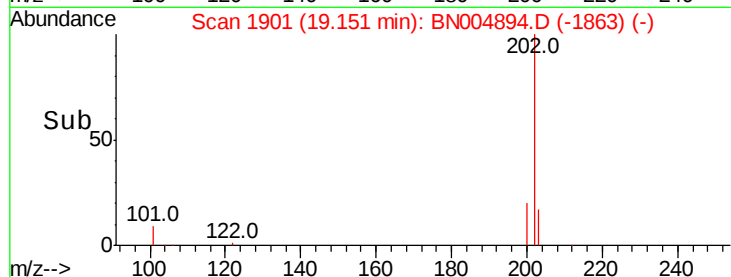
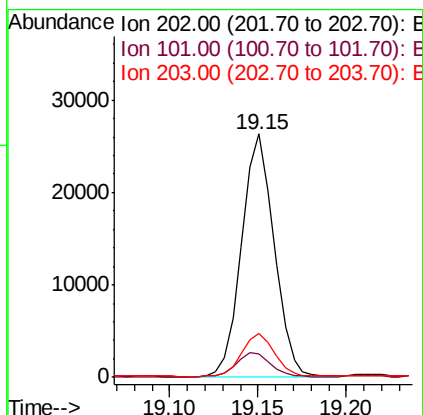
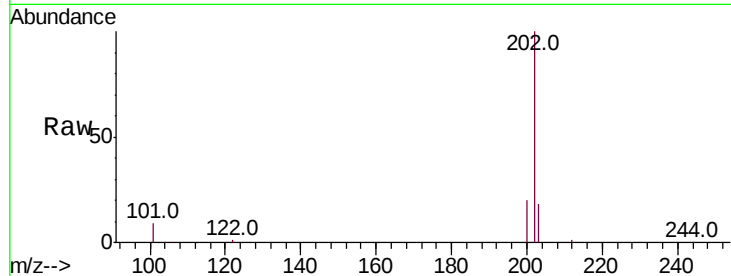




#26
Fluoranthene
Concen: 0.450 ng
RT: 19.15 min Scan# 1901
Delta R.T. -0.01 min
Lab File: BN004894.D
Acq: 22 Mar 2019 21:23

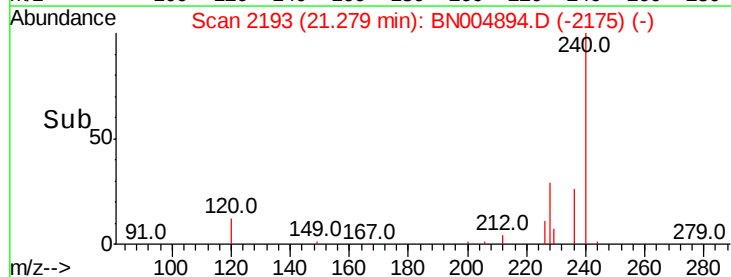
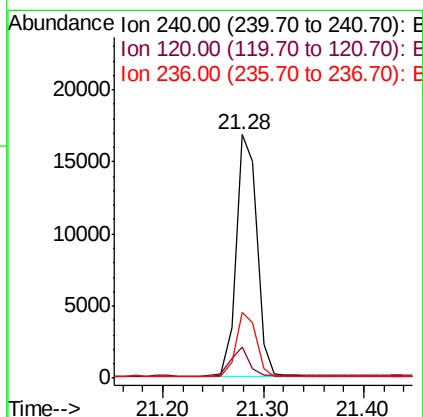
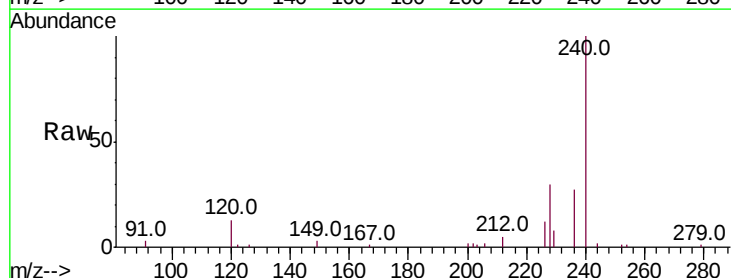
Instrument :
BNA_N
ClientSampleId :
PST-026-B119-031819

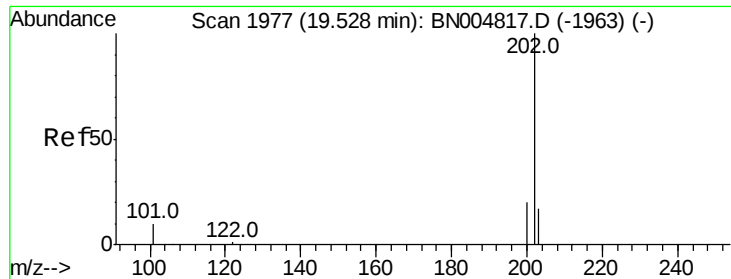
Tot Ion:202 Resp: 33411
Ion Ratio Lower Upper
202 100
101 10.1 7.5 11.3
203 17.7 13.8 20.6



#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.28 min Scan# 2193
Delta R.T. -0.01 min
Lab File: BN004894.D
Acq: 22 Mar 2019 21:23

Tgt Ion:240 Resp: 24317
Ion Ratio Lower Upper
240 100
120 12.7 7.2 10.8#
236 26.9 20.9 31.3

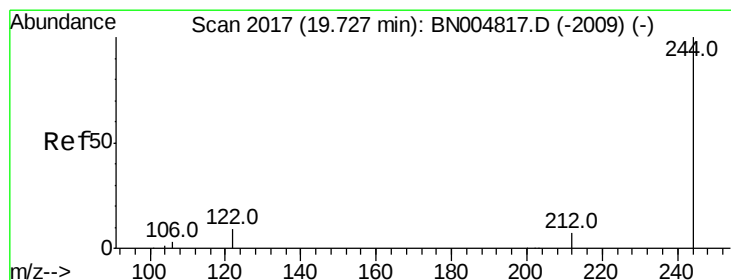
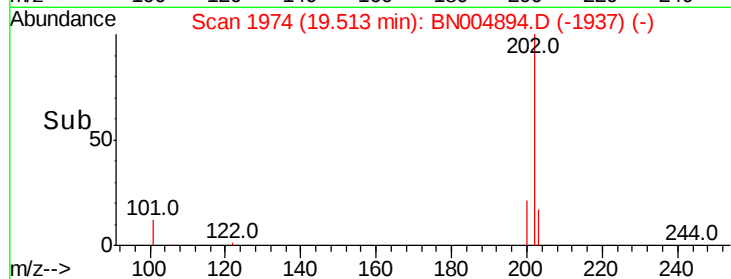
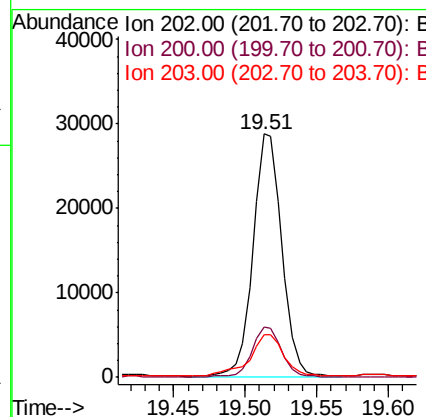
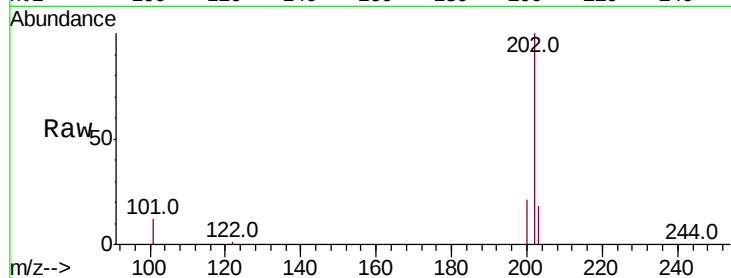




#28
Pvrene
Concen: 0.541 ng
RT: 19.51 min Scan# 1974
Delta R.T. -0.02 min
Lab File: BN004894.D
Acq: 22 Mar 2019 21:23

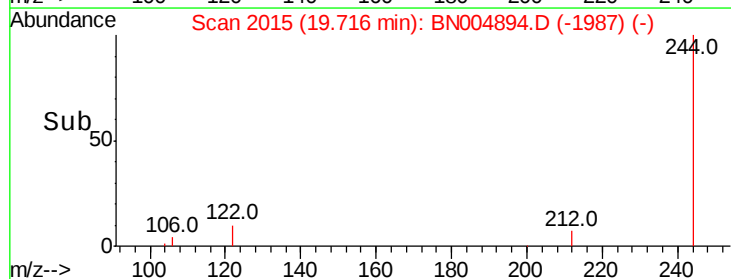
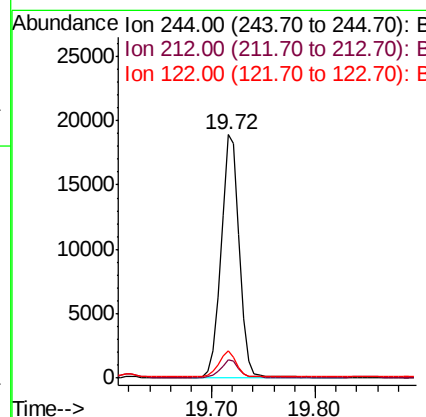
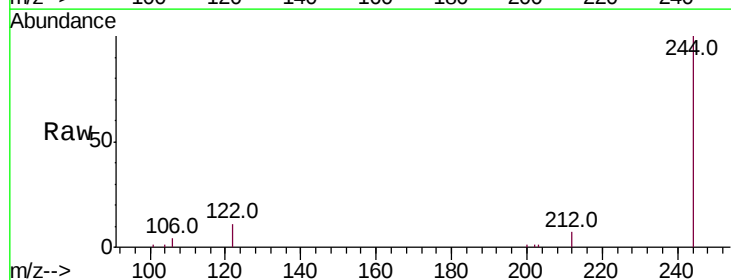
Instrument :
BNA_N
ClientSampleId :
PST-026-B119-031819

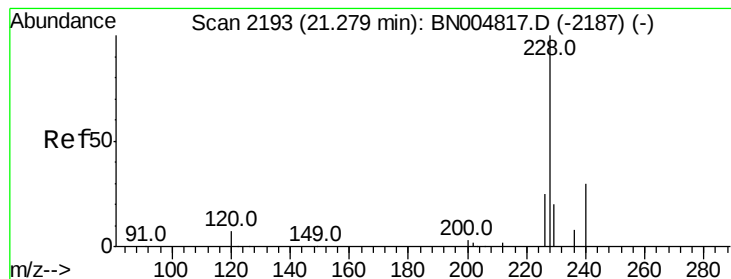
Tot Ion:202 Resp: 40124
Ion Ratio Lower Upper
202 100
200 20.6 16.3 24.5
203 20.3 14.0 21.0



#29
Terphenyl-d14
Concen: 0.457 ng
RT: 19.72 min Scan# 2015
Delta R.T. -0.01 min
Lab File: BN004894.D
Acq: 22 Mar 2019 21:23

Tgt Ion:244 Resp: 22735
Ion Ratio Lower Upper
244 100
212 7.3 5.8 8.6
122 11.0 7.9 11.9





#30

Benzo(a)anthracene

Concen: 0.239 ng

RT: 21.27 min Scan# 2192

Delta R.T. -0.01 min

Lab File: BN004894.D

Acq: 22 Mar 2019 21:23

Instrument :

BNA_N

ClientSampleId :

PST-026-B119-031819

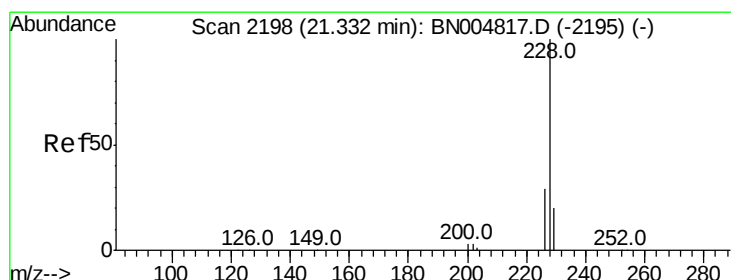
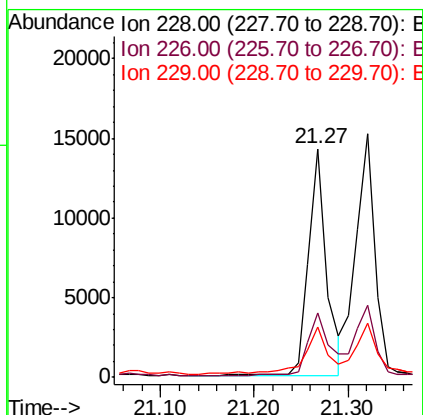
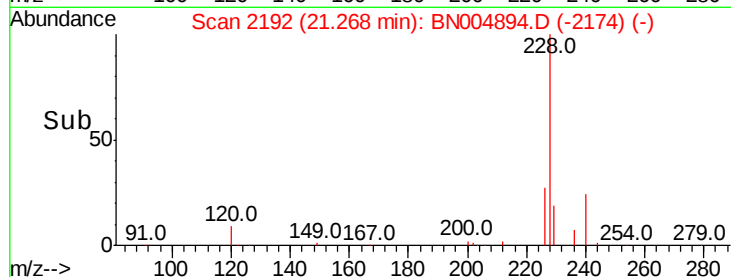
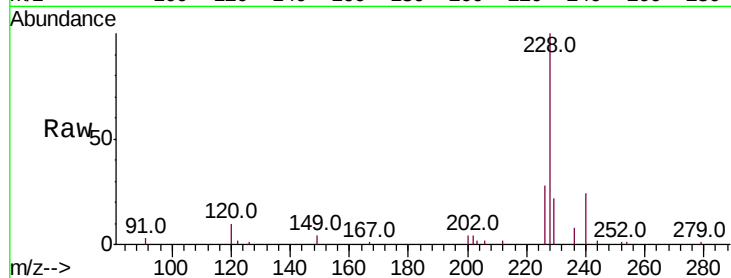
Tot Ion:228 Resp: 19048

Ion Ratio Lower Upper

228 100

226 28.3 20.6 31.0

229 22.0 16.2 24.4



#31

Chrysene

Concen: 0.255 ng

RT: 21.32 min Scan# 2197

Delta R.T. -0.01 min

Lab File: BN004894.D

Acq: 22 Mar 2019 21:23

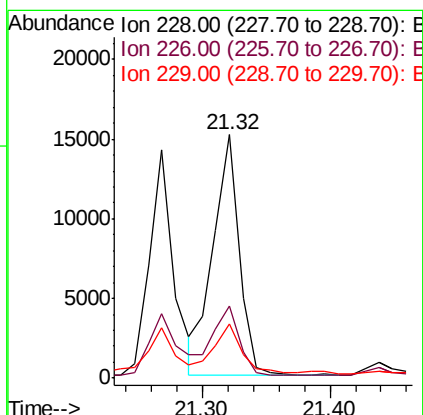
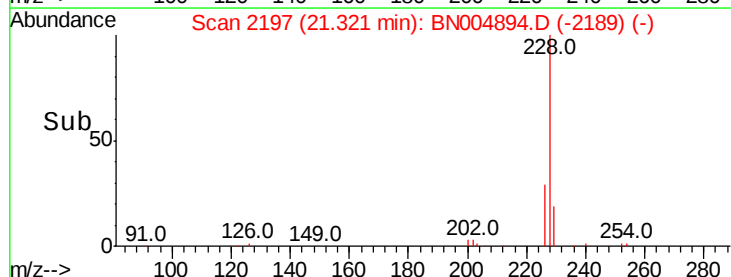
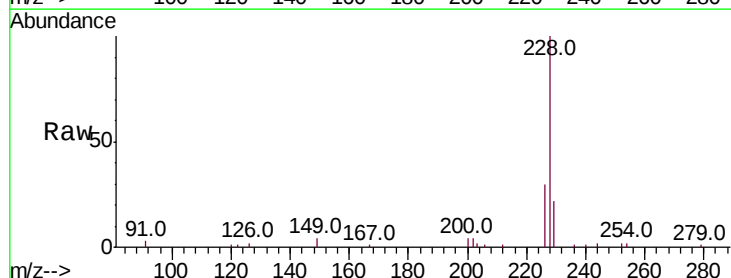
Tgt Ion:228 Resp: 21386

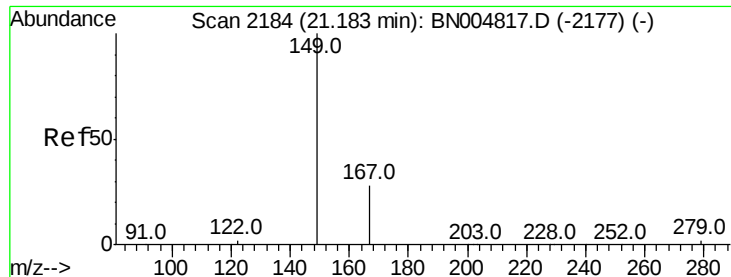
Ion Ratio Lower Upper

228 100

226 29.7 23.0 34.6

229 22.2 16.2 24.2





#32

Bis(2-ethylhexyl)phthalate

Concen: 0.179 ng

RT: 21.18 min Scan# 2184

Delta R.T. -0.00 min

Lab File: BN004894.D

Acq: 22 Mar 2019 21:23

Instrument :

BNA_N

ClientSampleId :

PST-026-B119-031819

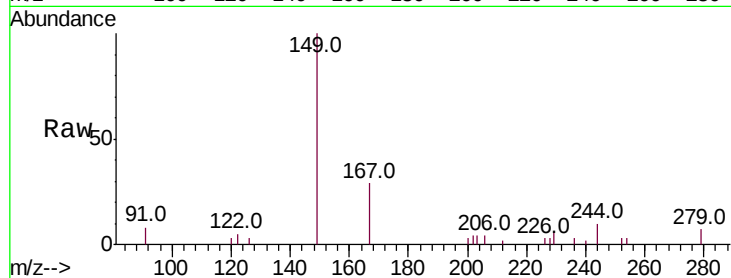
Tot Ion:149 Resp: 5716

Ion Ratio Lower Upper

149 100

167 27.6 23.0 34.4

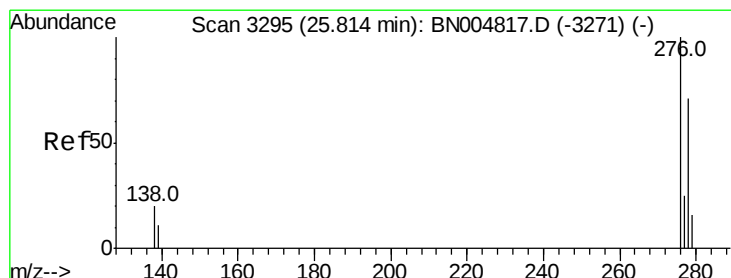
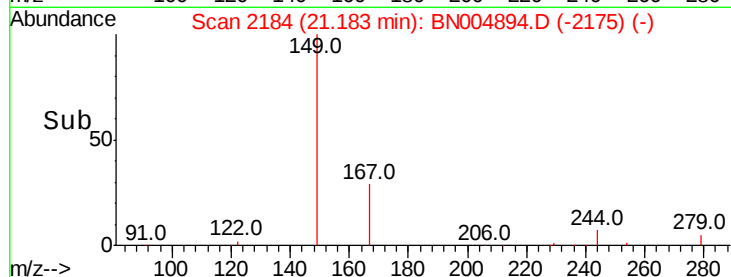
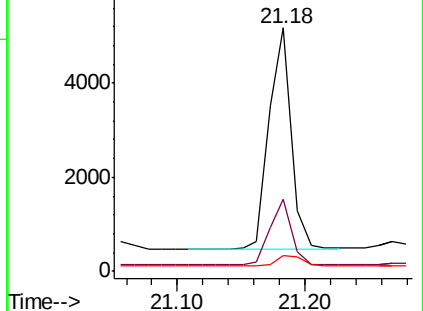
279 5.2 4.6 6.8



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: 0.092 ng

RT: 25.80 min Scan# 3292

Delta R.T. -0.01 min

Lab File: BN004894.D

Acq: 22 Mar 2019 21:23

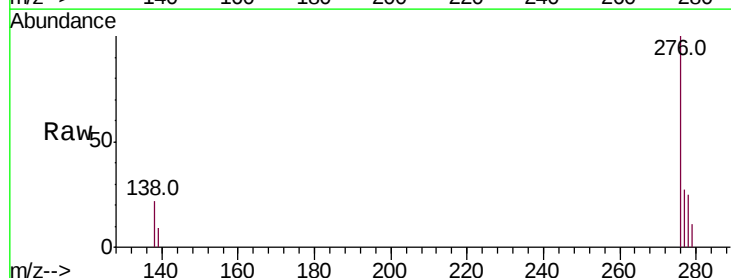
Tgt Ion:276 Resp: 11168

Ion Ratio Lower Upper

276 100

138 20.2 16.6 24.8

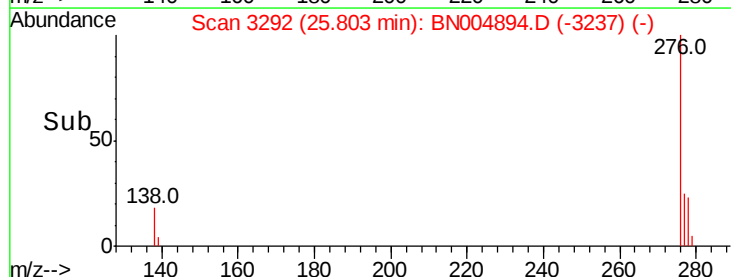
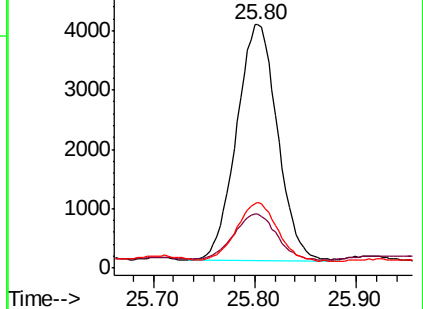
277 24.7 20.3 30.5

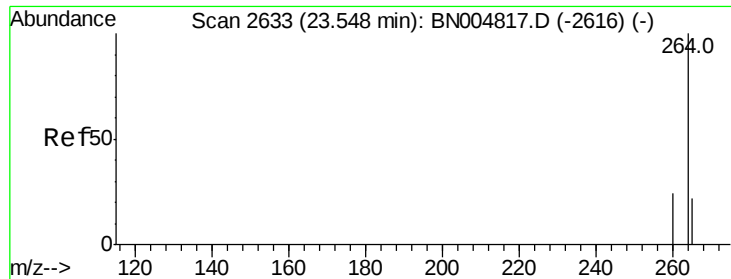


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

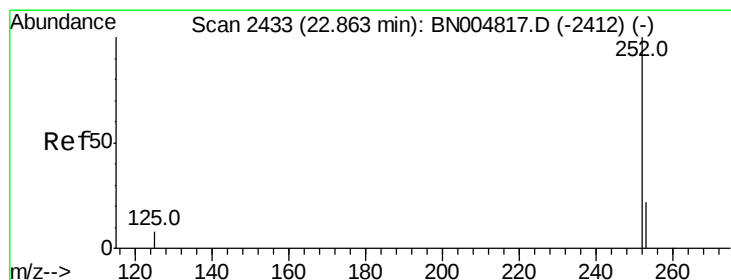
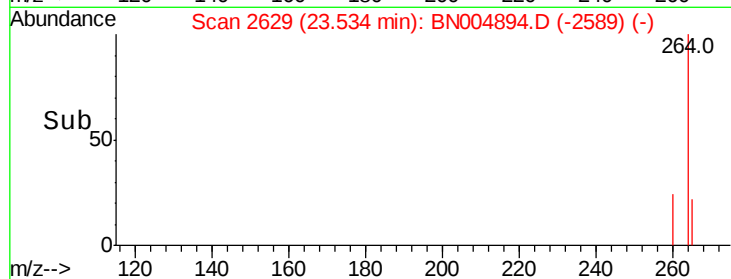
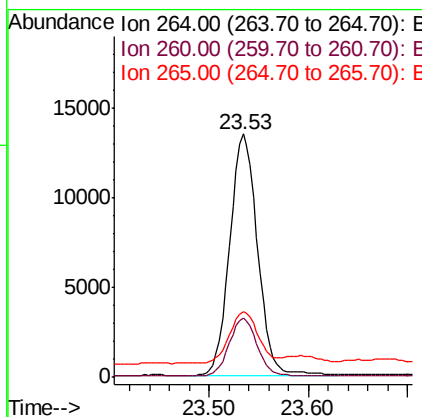
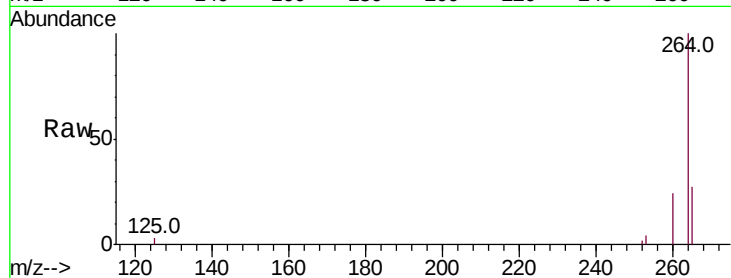




#34
Pervlene-d12
Concen: 0.400 ng
RT: 23.53 min Scan# 2629
Delta R.T. -0.01 min
Lab File: BN004894.D
Acq: 22 Mar 2019 21:23

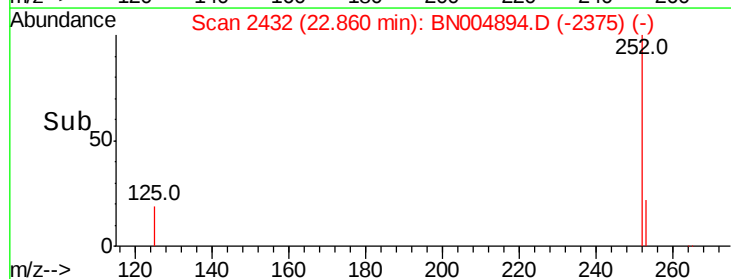
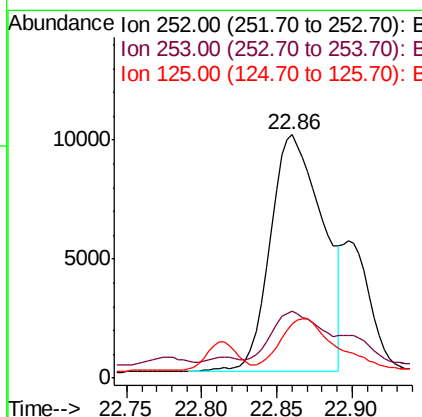
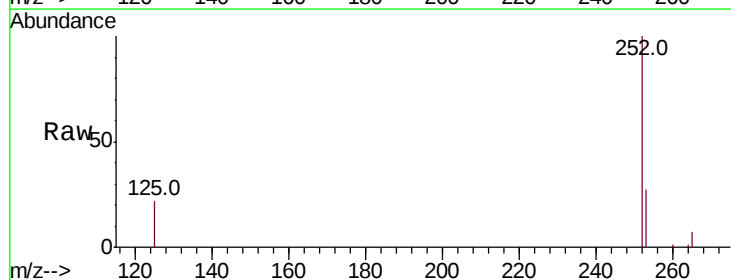
Instrument :
BNA_N
ClientSampleId :
PST-026-B119-031819

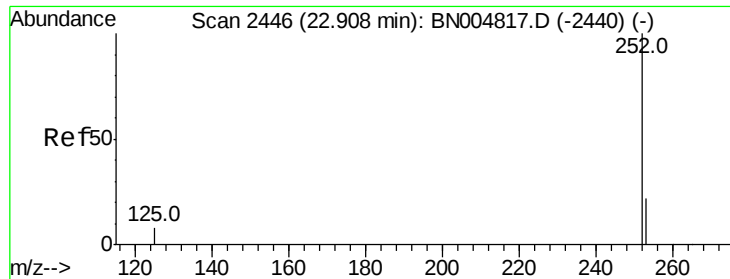
Tot Ion:264 Resp: 26072
Ion Ratio Lower Upper
264 100
260 24.4 19.5 29.3
265 26.9 23.1 34.7



#35
Benzo(b)fluoranthene
Concen: 0.256 ng
RT: 22.86 min Scan# 2432
Delta R.T. -0.00 min
Lab File: BN004894.D
Acq: 22 Mar 2019 21:23

Tgt Ion:252 Resp: 24164
Ion Ratio Lower Upper
252 100
253 27.3 19.0 28.4
125 22.0 7.4 11.2#





#36

Benzo(k)fluoranthene

Concen: 0.260 ng

RT: 22.86 min Scan# 2432

Delta R.T. -0.05 min

Lab File: BN004894.D

Acq: 22 Mar 2019 21:23

Instrument :

BNA_N

ClientSampleId :

PST-026-B119-031819

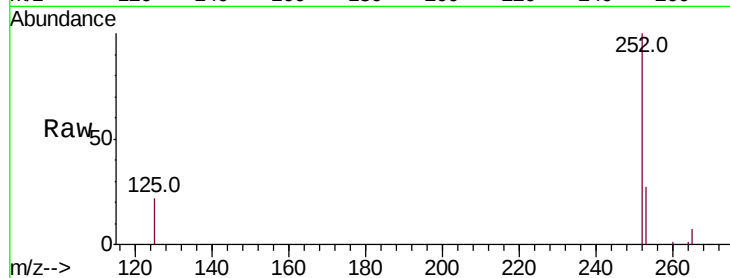
Tot Ion:252 Resp: 24164

Ion Ratio Lower Upper

252 100

253 27.3 19.3 28.9

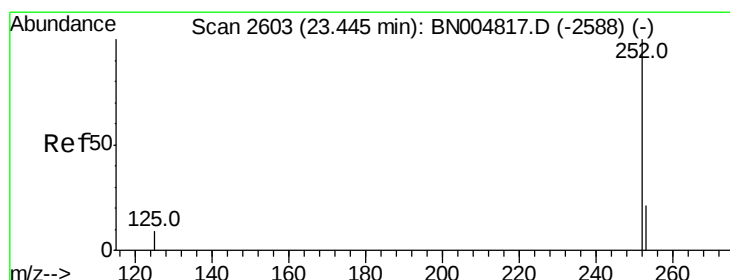
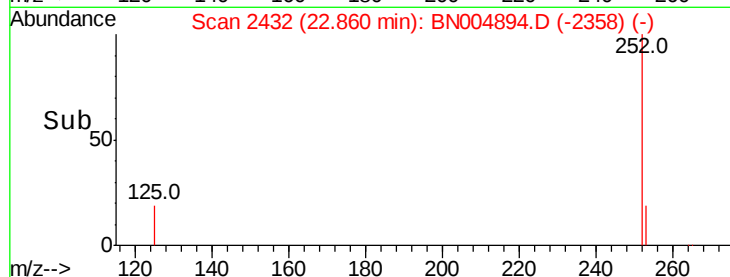
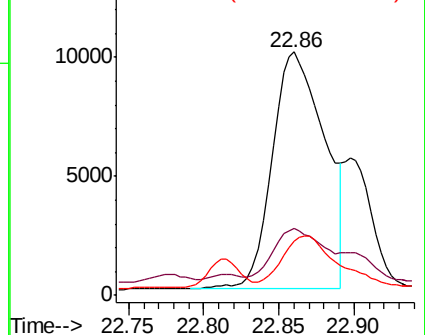
125 22.0 7.4 11.0#



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: 0.195 ng

RT: 23.43 min Scan# 2600

Delta R.T. -0.01 min

Lab File: BN004894.D

Acq: 22 Mar 2019 21:23

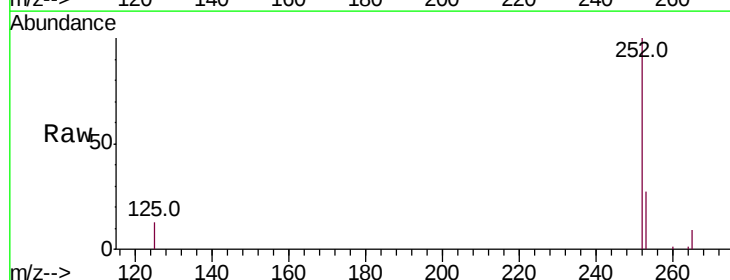
Tgt Ion:252 Resp: 16861

Ion Ratio Lower Upper

252 100

253 27.4 19.7 29.5

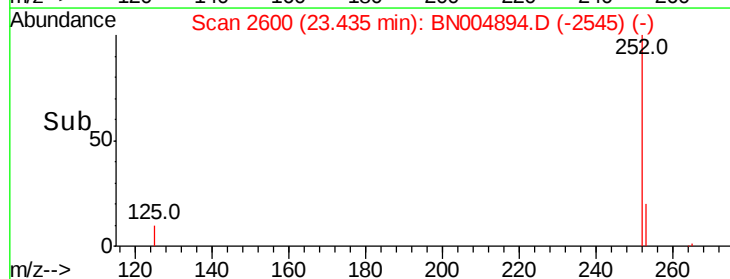
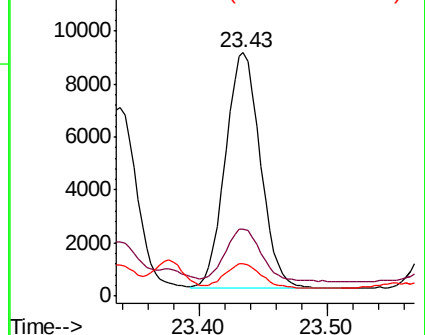
125 13.4 8.3 12.5#

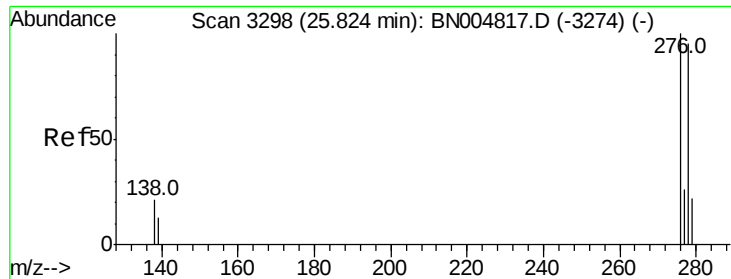


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#38

Dibenzo(a,h)anthracene

Concen: 0.031 ng

RT: 25.81 min Scan# 3293

Delta R.T. -0.02 min

Lab File: BN004894.D

Acq: 22 Mar 2019 21:23

Instrument :

BNA_N

ClientSampleId :

PST-026-B119-031819

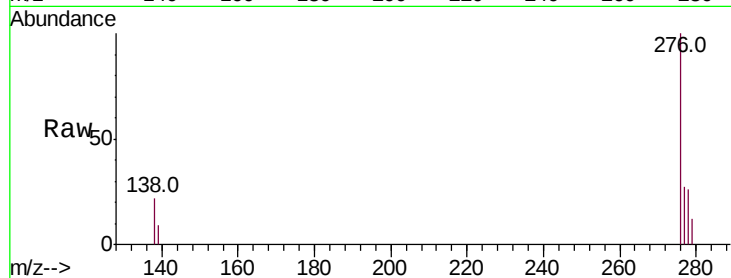
Tot Ion:278 Resp: 3150

Ion Ratio Lower Upper

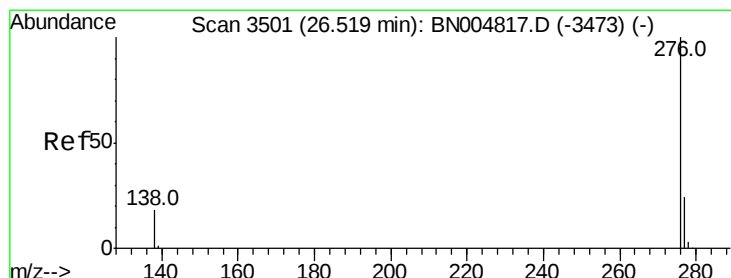
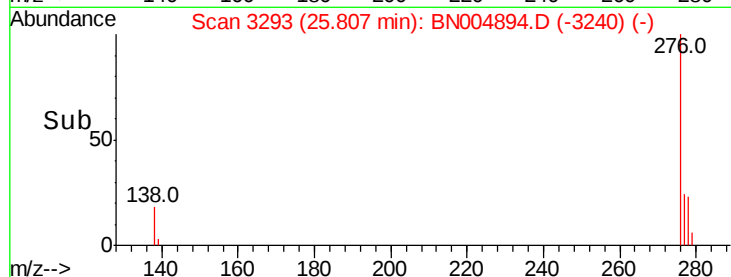
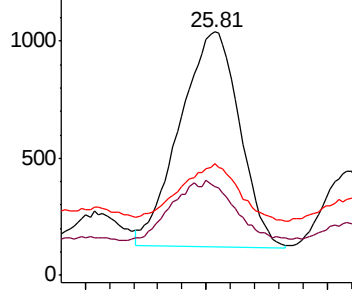
278 100

139 36.6 11.7 17.5#

279 45.7 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: 0.112 ng

RT: 26.50 min Scan# 3496

Delta R.T. -0.02 min

Lab File: BN004894.D

Acq: 22 Mar 2019 21:23

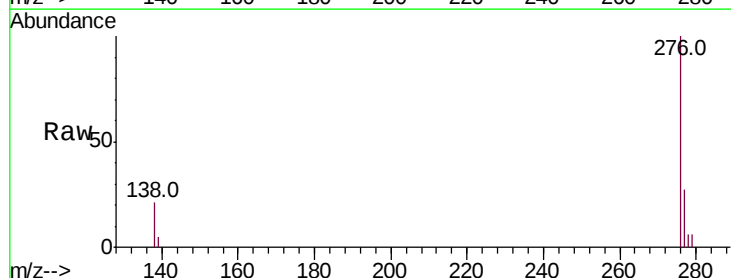
Tgt Ion:276 Resp: 11479

Ion Ratio Lower Upper

276 100

277 26.6 19.7 29.5

138 21.4 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

