

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN032419\
 Data File : BN004938.D
 Acq On : 24 Mar 2019 14:40
 Operator : JU/SJ
 Sample : K2015-04
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PST-072-B155-031919

Quant Time: Mar 25 02:56:25 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	3307	0.40	ng	-0.02
7) Naphthalene-d8	10.47	136	13421	0.40	ng	-0.03
13) Acenaphthene-d10	14.32	164	7286	0.40	ng	-0.02
19) Phenanthrene-d10	17.08	188	16012	0.40	ng	-0.01
27) Chrysene-d12	21.28	240	16661	0.40	ng	-0.01
34) Perylene-d12	23.52	264	16855	0.40	ng	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.28	112	2915	0.32	ng	0.00
5) Phenol-d6	6.86	99	3694	0.33	ng	-0.02
8) Nitrobenzene-d5	8.84	82	2978	0.34	ng	-0.03
11) 2-Methylnaphthalene-d10	12.06	152	6538	0.28	ng	-0.02
14) 2,4,6-Tribromophenol	15.83	330	1435	0.29	ng	-0.02
15) 2-Fluorobiphenyl	12.94	172	8784	0.29	ng	-0.02
25) Fluoranthene-d10	19.12	212	13003	0.24	ng	-0.01
29) Terphenyl-d14	19.71	244	8568	0.25	ng	-0.01

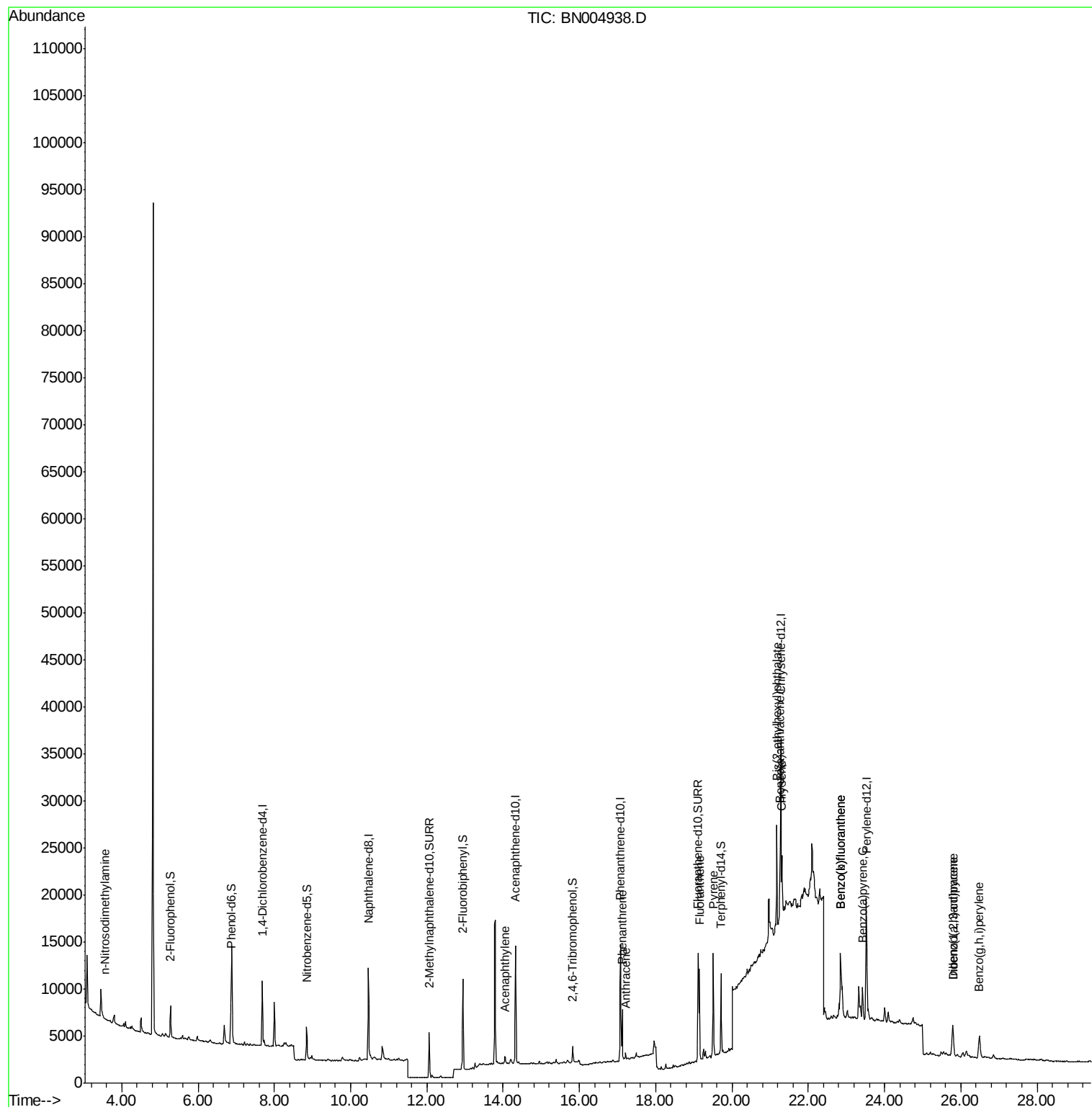
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) n-Nitrosodimethylamine	3.58	42	48	0.022	ng	# 4
16) Acenaphthylene	14.04	152	1186	0.032	ng	99
23) Phenanthrene	17.12	178	5843	0.113	ng	97
24) Anthracene	17.22	178	999	0.022	ng	98
26) Fluoranthene	19.15	202	8936	0.134	ng	# 92
28) Pyrene	19.51	202	9980	0.196	ng	# 94
30) Benzo(a)anthracene	21.26	228	4898	0.090	ng	# 71
31) Chrysene	21.31	228	6408	0.111	ng	# 78
32) Bis(2-ethylhexyl)phthalate	21.17	149	9924	0.455	ng	99
33) Indeno(1,2,3-cd)pyrene	25.79	276	4588	0.055	ng	# 96
35) Benzo(b)fluoranthene	22.85	252	8137	0.133	ng	# 13
36) Benzo(k)fluoranthene	22.85	252	8137	0.136	ng	# 14
37) Benzo(a)pyrene	23.42	252	4732	0.085	ng	# 8
38) Dibenzo(a,h)anthracene	25.80	278	1961	0.030	ng	# 1
39) Benzo(g,h,i)perylene	26.49	276	5052	0.077	ng	# 57

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

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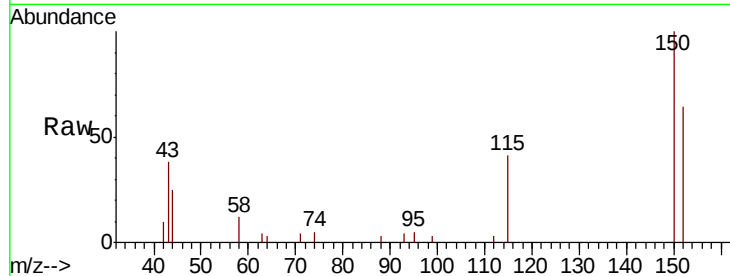


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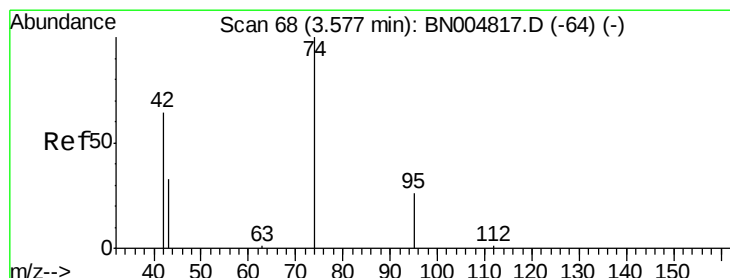
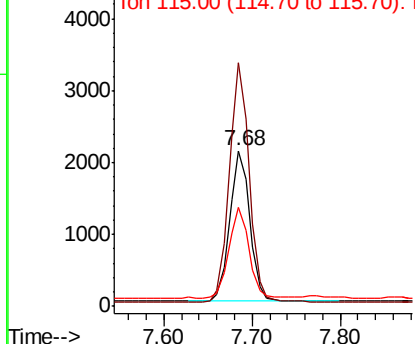
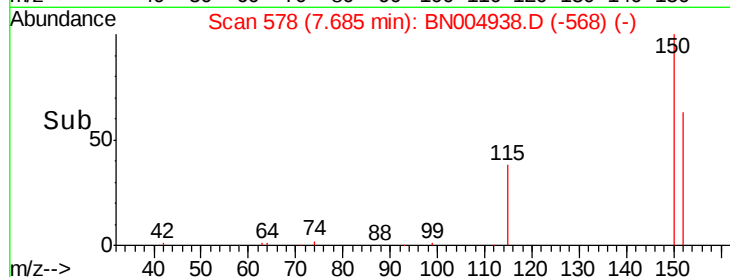
1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.68 min Scan# 578
 Delta R.T. -0.02 min
 Lab File: BN004938.D
 Acq: 24 Mar 2019 14:40

Instrument :
 BNA_N
 ClientSampleId :
 PST-072-B155-031919

Tgt Ion: 152 Resp: 3307
 Ion Ratio Lower Upper
 152 100
 150 156.4 126.2 189.4
 115 63.7 52.6 79.0



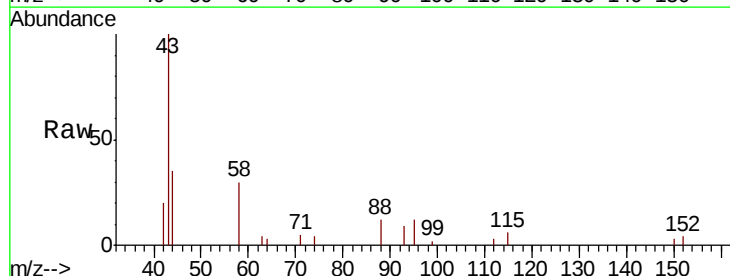
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



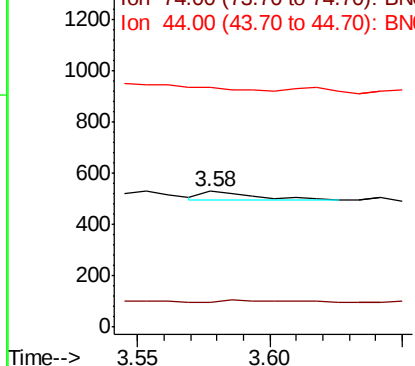
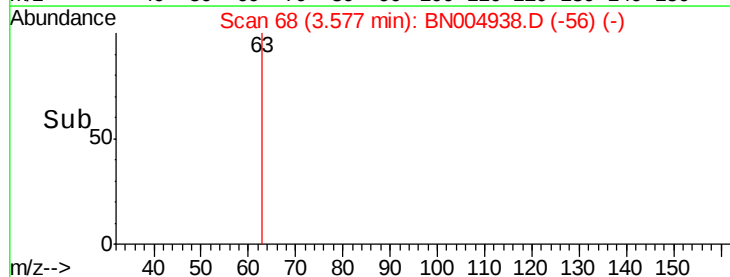
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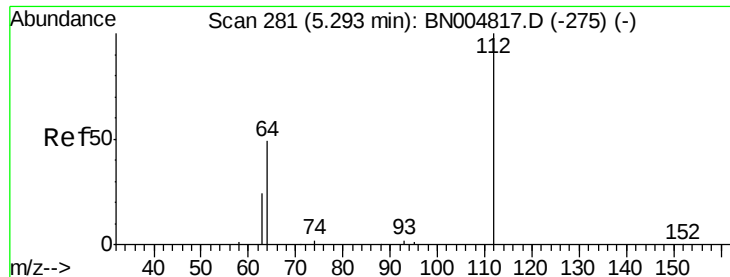
n-Nitrosodimethylamine
 Concen: 0.022 ng
 RT: 3.58 min Scan# 68
 Delta R.T. -0.00 min
 Lab File: BN004938.D
 Acq: 24 Mar 2019 14:40

Tgt Ion: 42 Resp: 48
 Ion Ratio Lower Upper
 42 100
 74 29.2 128.4 192.6#
 44 0.0 6.1 9.1#



Abundance Ion 42.00 (41.70 to 42.70): BNC
 Ion 74.00 (73.70 to 74.70): BNC
 Ion 44.00 (43.70 to 44.70): BNC





#4

2-Fluorophenol

Concen: 0.324 ng

RT: 5.28 min Scan# 280

Delta R.T. -0.01 min

Lab File: BN004938.D

Acq: 24 Mar 2019 14:40

Instrument :

BNA_N

ClientSampleId :

PST-072-B155-031919

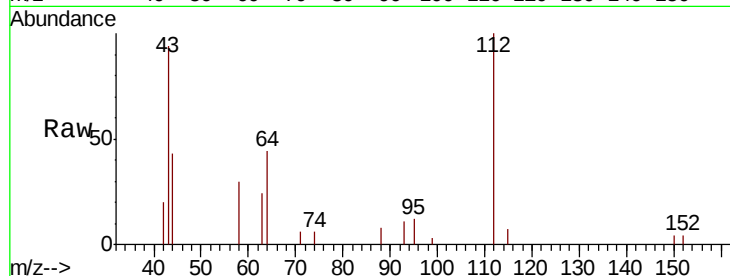
Tgt Ion: 112 Resp: 2915

Ion Ratio Lower Upper

112 100

64 52.0 40.0 60.0

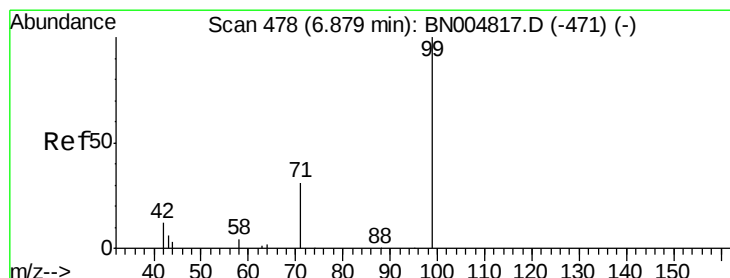
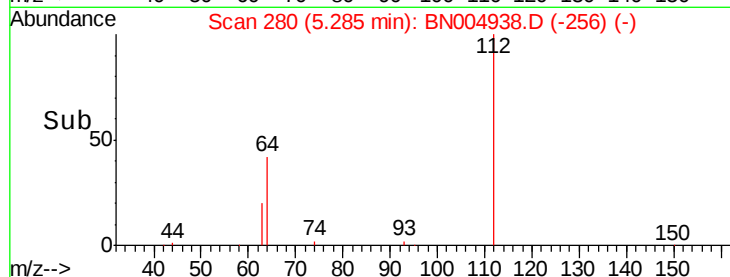
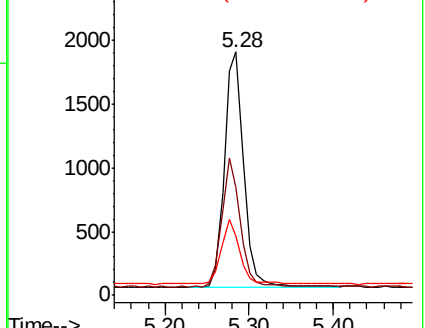
63 26.3 20.2 30.2



Abundance Ion 112.00 (111.70 to 112.70): BNC

Ion 64.00 (63.70 to 64.70): BNC

Ion 63.00 (62.70 to 63.70): BNC



#5

Phenol-d6

Concen: 0.330 ng

RT: 6.86 min Scan# 476

Delta R.T. -0.02 min

Lab File: BN004938.D

Acq: 24 Mar 2019 14:40

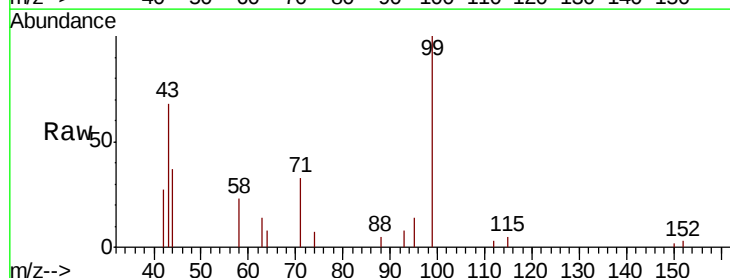
Tgt Ion: 99 Resp: 3694

Ion Ratio Lower Upper

99 100

42 30.7 12.7 19.1#

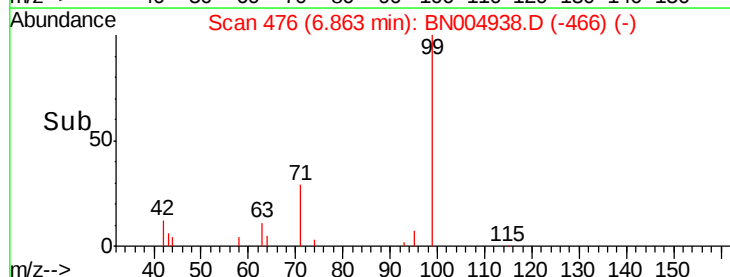
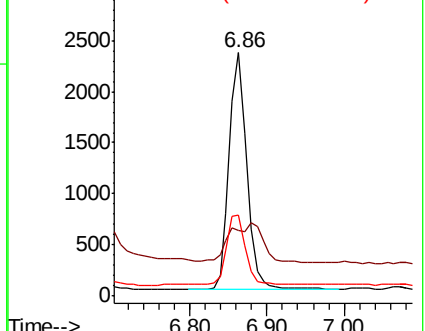
71 31.9 26.6 40.0

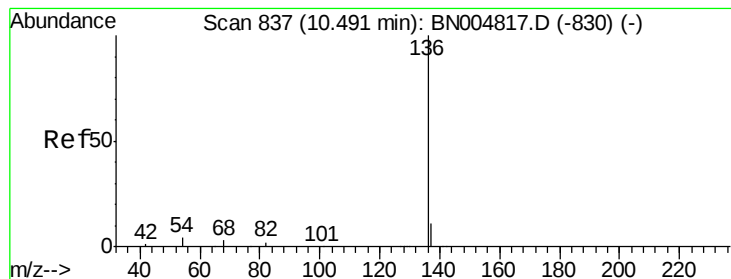


Abundance Ion 99.00 (98.70 to 99.70): BNC

Ion 42.00 (41.70 to 42.70): BNC

Ion 71.00 (70.70 to 71.70): BNC





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.47 min Scan# 835

Delta R.T. -0.03 min

Lab File: BN004938.D

Acq: 24 Mar 2019 14:40

Instrument :

BNA_N

ClientSampleId :

PST-072-B155-031919

Tgt Ion:136 Resp: 13421

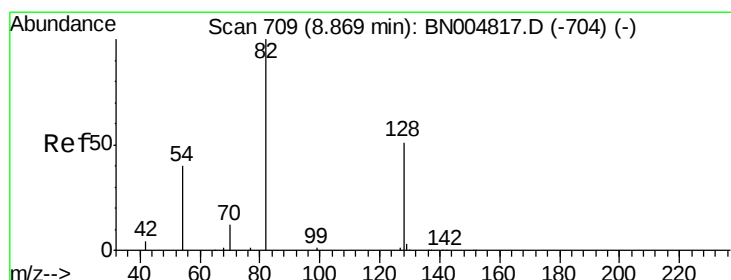
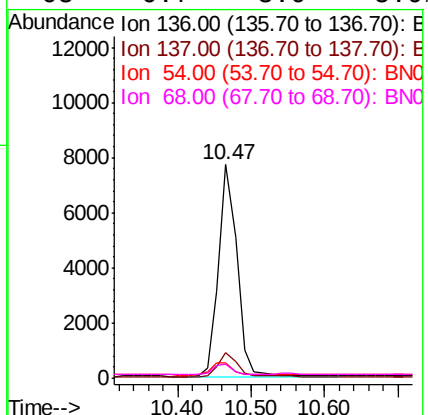
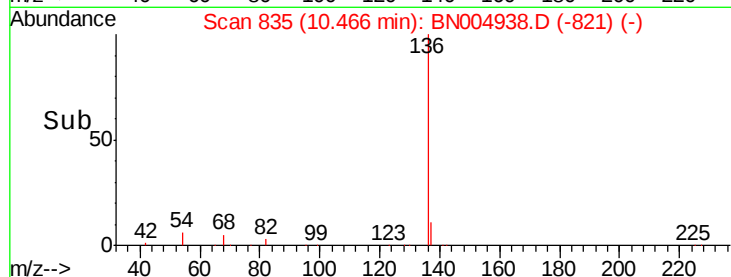
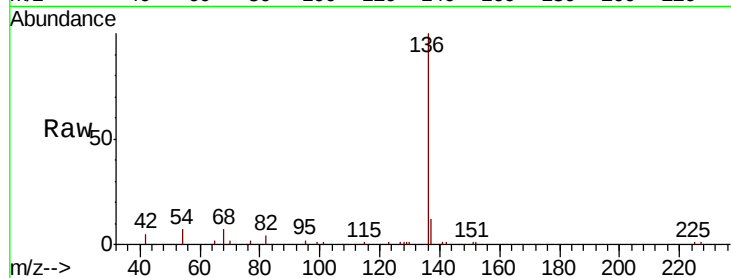
Ion Ratio Lower Upper

136 100

137 11.9 9.6 14.4

54 7.3 4.2 6.2#

68 6.7 3.9 5.9#



#8

Nitrobenzene-d5

Concen: 0.335 ng

RT: 8.84 min Scan# 707

Delta R.T. -0.03 min

Lab File: BN004938.D

Acq: 24 Mar 2019 14:40

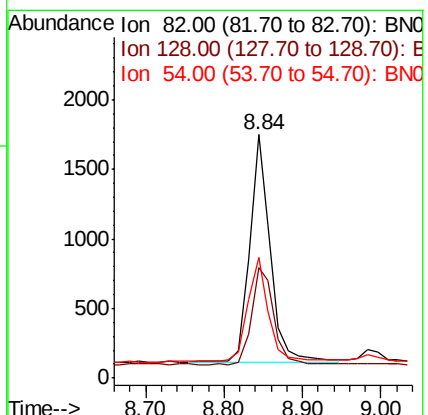
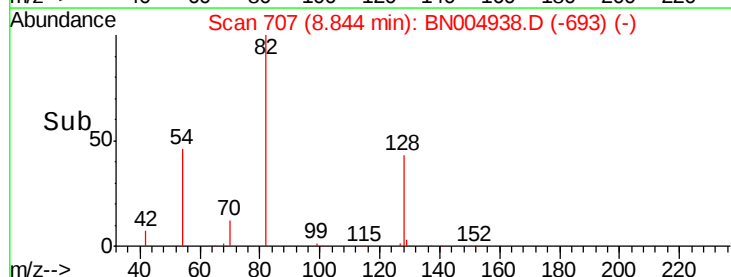
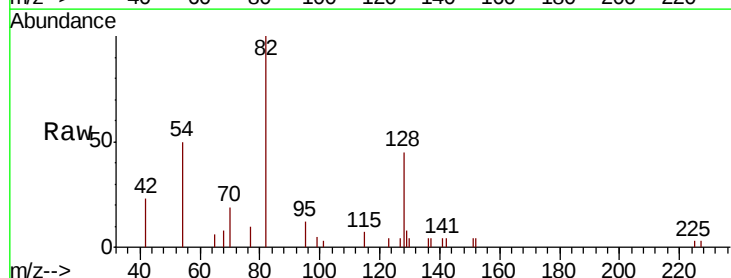
Tgt Ion: 82 Resp: 2978

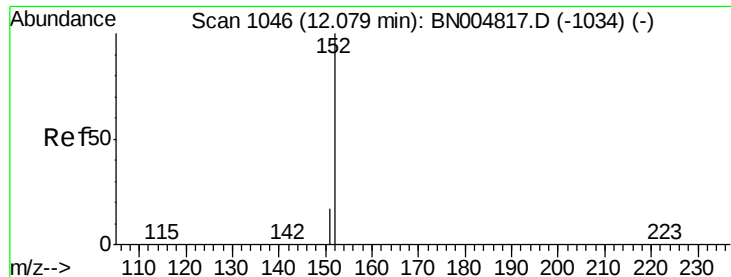
Ion Ratio Lower Upper

82 100

128 45.4 43.0 64.6

54 49.8 35.3 52.9

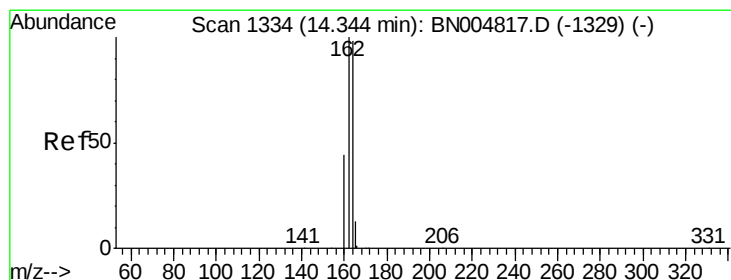
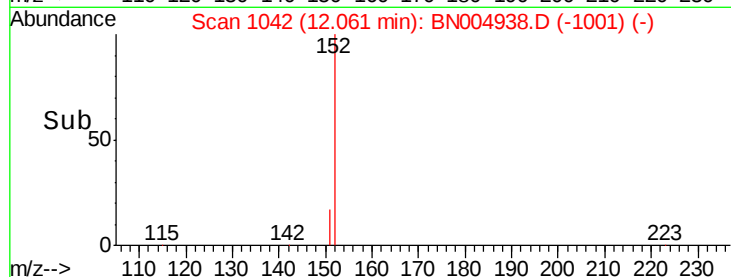
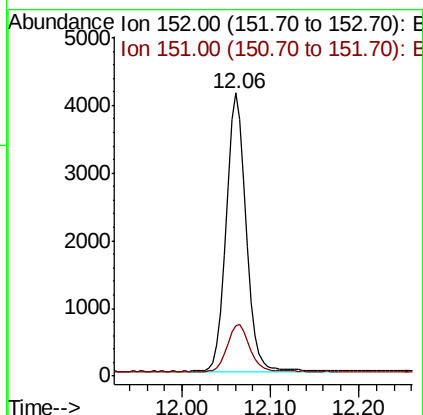
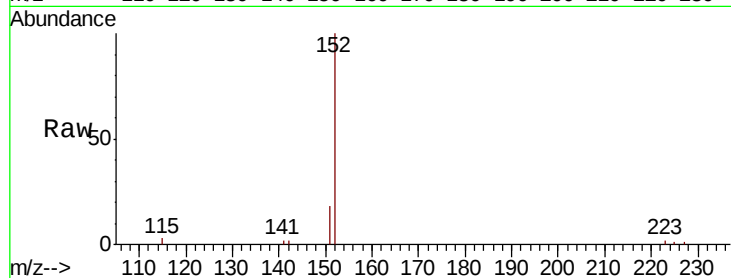




#11
 2-Methylnaphthalene-d10
 Concen: 0.279 ng
 RT: 12.06 min Scan# 1042
 Delta R.T. -0.02 min
 Lab File: BN004938.D
 Acq: 24 Mar 2019 14:40

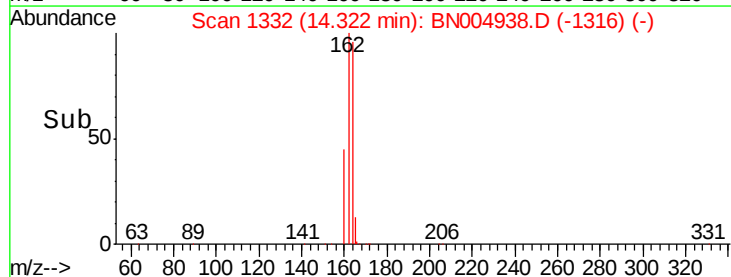
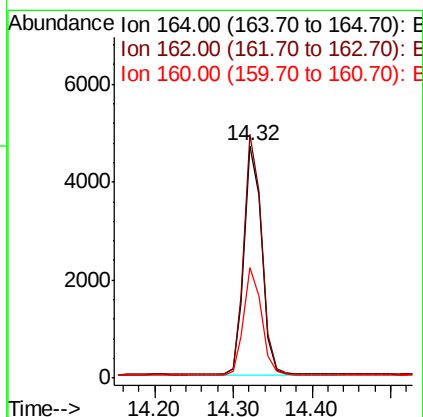
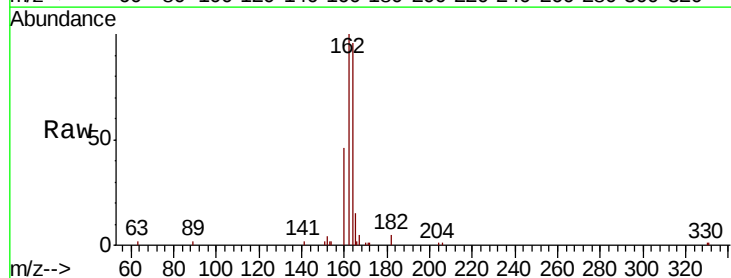
Instrument :
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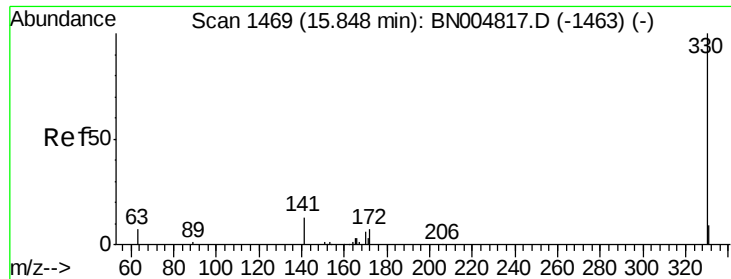
Tgt Ion:152 Resp: 6538
 Ion Ratio Lower Upper
 152 100
 151 19.1 15.5 23.3



#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.32 min Scan# 1332
 Delta R.T. -0.02 min
 Lab File: BN004938.D
 Acq: 24 Mar 2019 14:40

Tgt Ion:164 Resp: 7286
 Ion Ratio Lower Upper
 164 100
 162 104.6 81.9 122.9
 160 47.7 36.6 54.8

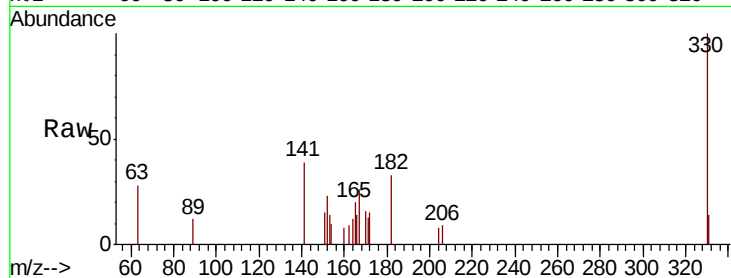




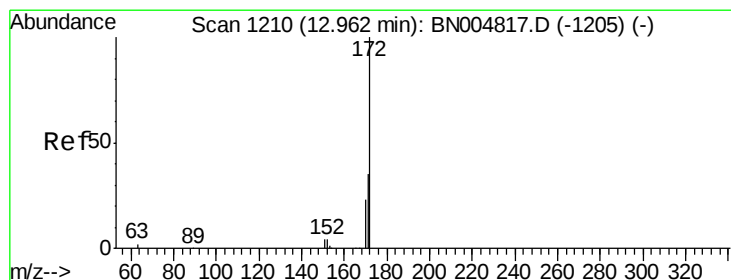
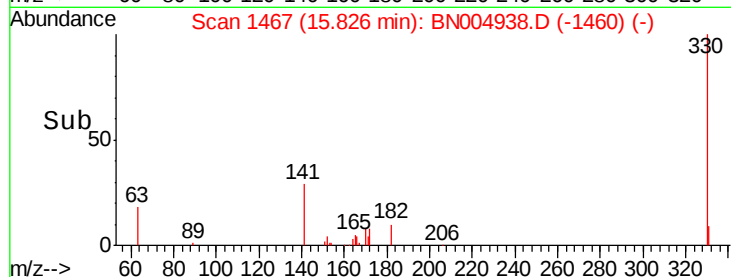
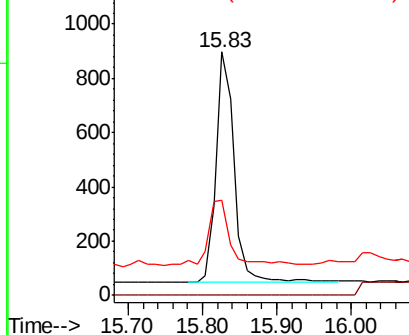
#14
 2,4,6-Tribromophenol
 Concen: 0.285 ng
 RT: 15.83 min Scan# 1467
 Delta R.T. -0.02 min
 Lab File: BN004938.D
 Acq: 24 Mar 2019 14:40

Instrument :
 BNA_N
 ClientSampleId :
 PST-072-B155-031919

Tgt Ion: 330 Resp: 1435
 Ion Ratio Lower Upper
 330 100
 332 0.0 0.0 0.0
 141 34.2 20.9 31.3#

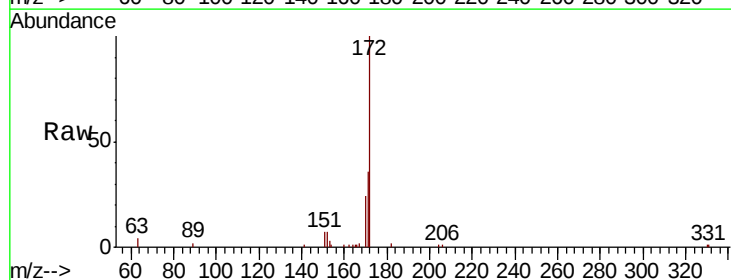


Abundance Ion 330.00 (329.70 to 330.70): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

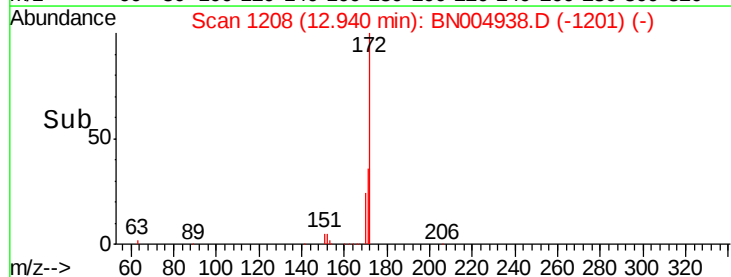
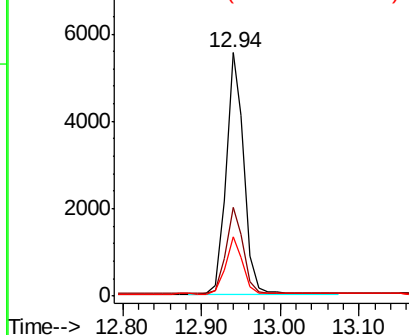


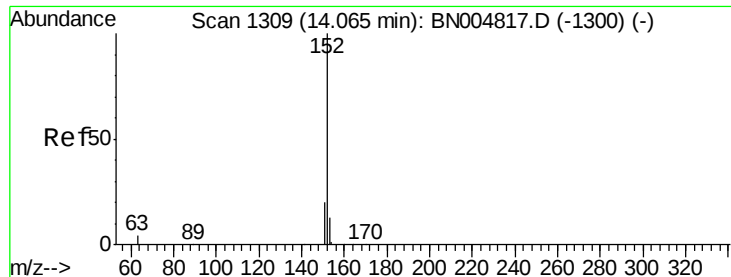
#15
 2-Fluorobiphenyl
 Concen: 0.292 ng
 RT: 12.94 min Scan# 1208
 Delta R.T. -0.02 min
 Lab File: BN004938.D
 Acq: 24 Mar 2019 14:40

Tgt Ion: 172 Resp: 8784
 Ion Ratio Lower Upper
 172 100
 171 36.3 28.7 43.1
 170 24.2 18.7 28.1



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





#16

Acenaphthylene

Concen: 0.032 ng

RT: 14.04 min Scan# 1307

Delta R.T. -0.02 min

Lab File: BN004938.D

Acq: 24 Mar 2019 14:40

Instrument :

BNA_N

ClientSampleId :

PST-072-B155-031919

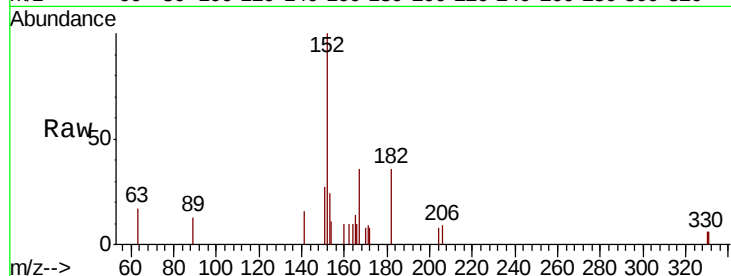
Tgt Ion:152 Resp: 1186

Ion Ratio Lower Upper

152 100

151 20.7 16.1 24.1

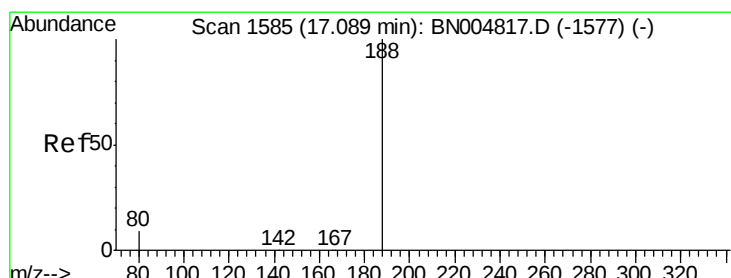
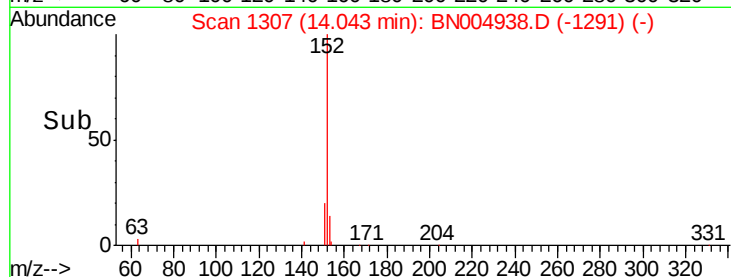
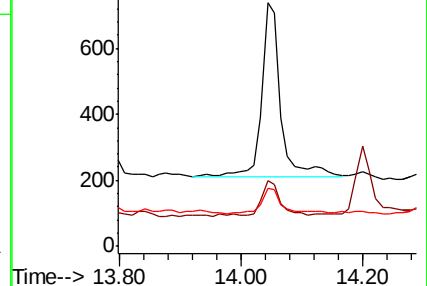
153 13.5 10.5 15.7



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.08 min Scan# 1584

Delta R.T. -0.01 min

Lab File: BN004938.D

Acq: 24 Mar 2019 14:40

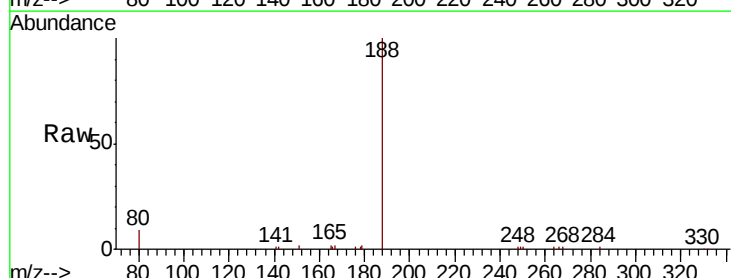
Tgt Ion:188 Resp: 16012

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

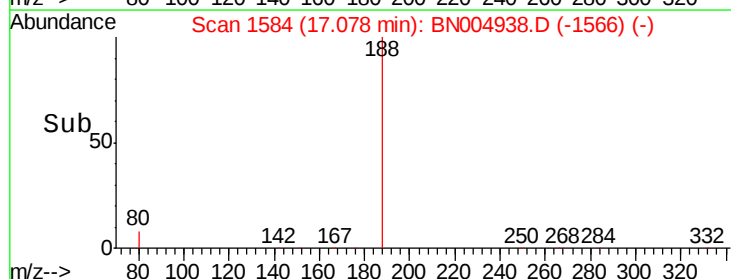
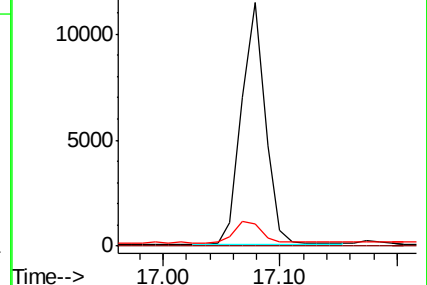
80 9.0 7.4 11.2

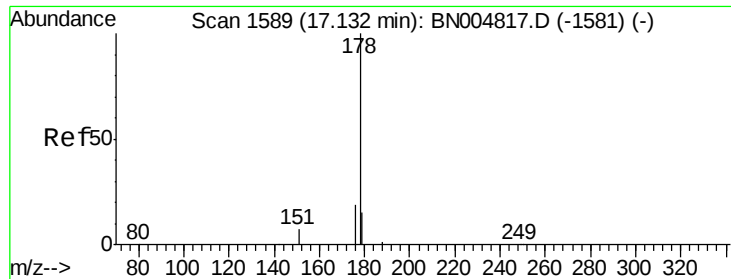


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BNC

Ion 80.00 (79.70 to 80.70): BNC





#23

Phenanthrene

Concen: 0.113 ng

RT: 17.12 min Scan# 1588

Delta R.T. -0.01 min

Lab File: BN004938.D

Acq: 24 Mar 2019 14:40

Instrument :

BNA_N

ClientSampleId :

PST-072-B155-031919

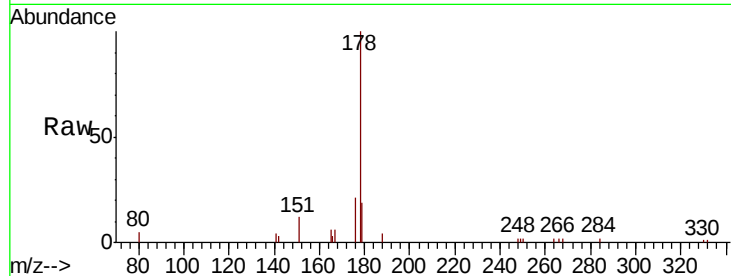
Tgt Ion:178 Resp: 5843

Ion Ratio Lower Upper

178 100

176 18.7 14.9 22.3

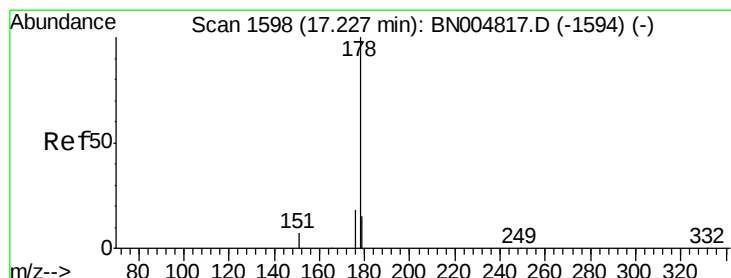
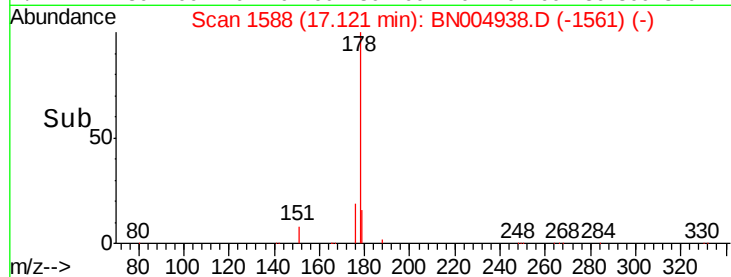
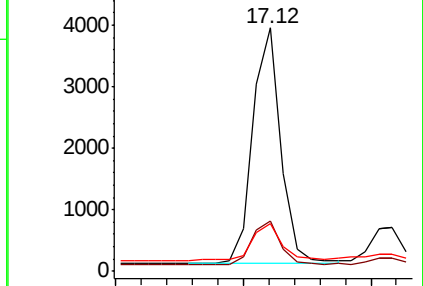
179 18.1 12.1 18.1



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: 0.022 ng

RT: 17.22 min Scan# 1597

Delta R.T. -0.01 min

Lab File: BN004938.D

Acq: 24 Mar 2019 14:40

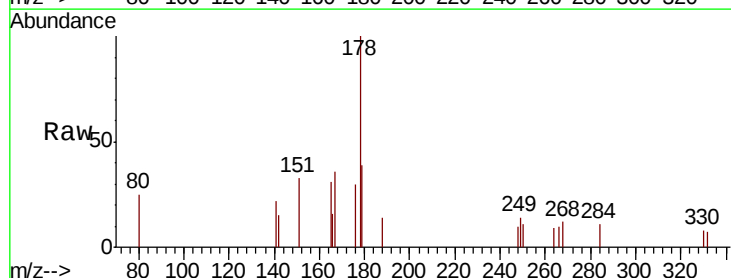
Tgt Ion:178 Resp: 999

Ion Ratio Lower Upper

178 100

176 16.7 14.5 21.7

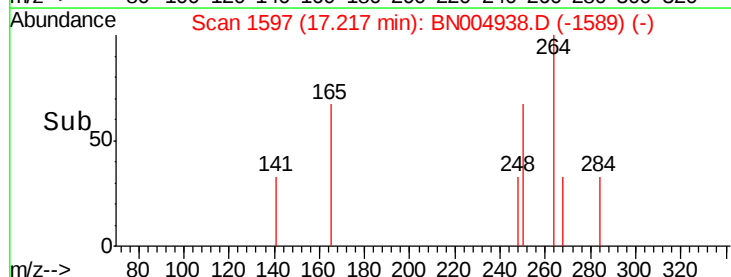
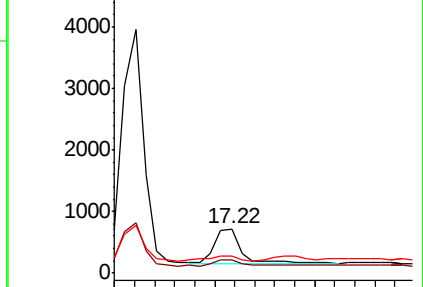
179 14.9 12.2 18.4

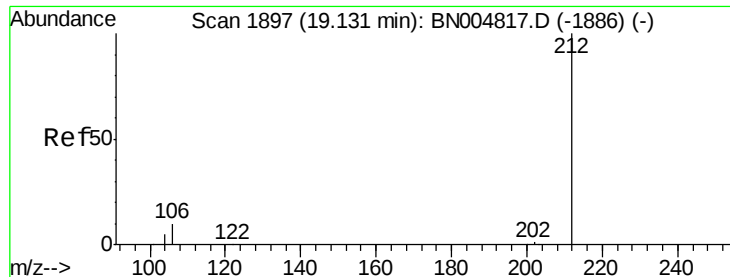


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.243 ng

RT: 19.12 min Scan# 1894

Delta R.T. -0.01 min

Lab File: BN004938.D

Acq: 24 Mar 2019 14:40

Instrument :

BNA_N

ClientSampleId :

PST-072-B155-031919

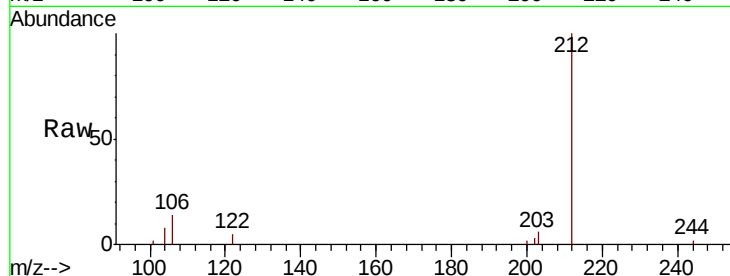
Tgt Ion:212 Resp: 13003

Ion Ratio Lower Upper

212 100

106 12.9 8.6 13.0

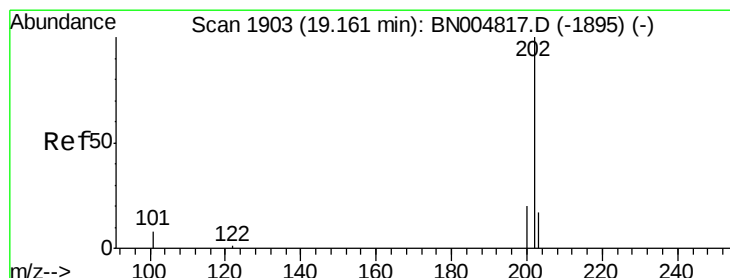
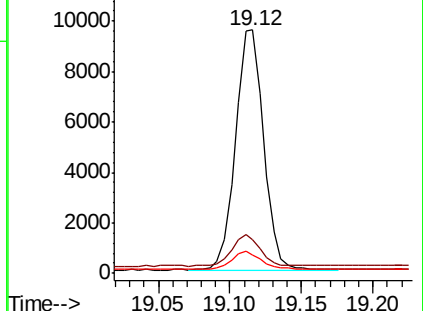
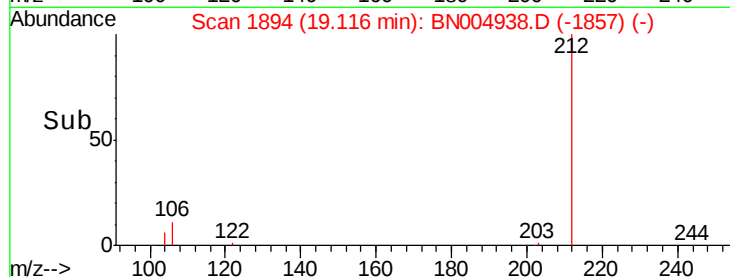
104 7.4 4.7 7.1#



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: 0.134 ng

RT: 19.15 min Scan# 1900

Delta R.T. -0.01 min

Lab File: BN004938.D

Acq: 24 Mar 2019 14:40

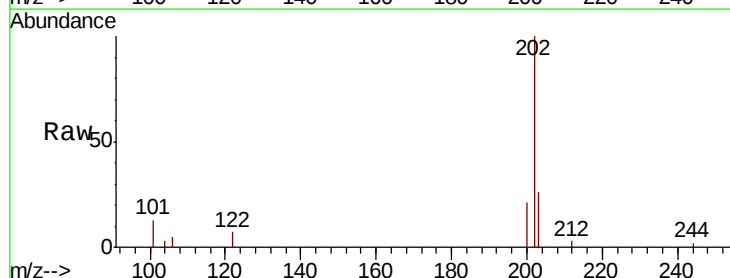
Tgt Ion:202 Resp: 8936

Ion Ratio Lower Upper

202 100

101 13.1 7.5 11.3#

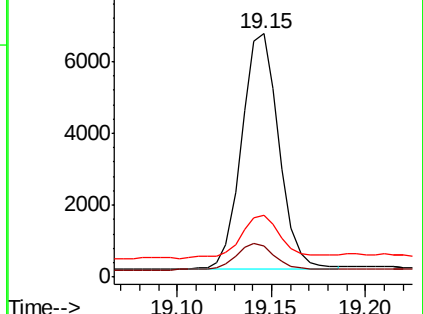
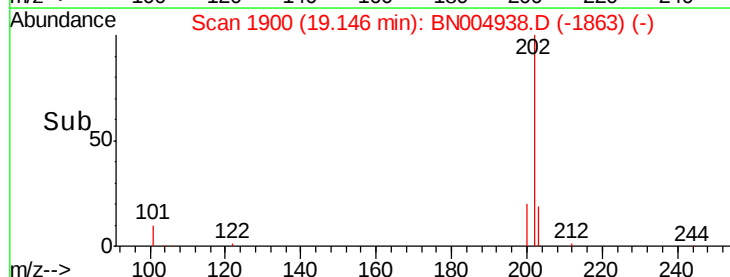
203 19.9 13.8 20.6

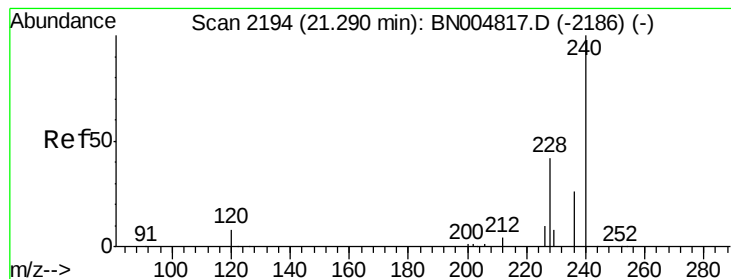


Abundance Ion 202.00 (201.70 to 202.70): E

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: BN004938.D

Acq: 24 Mar 2019 14:40

Instrument :

BNA_N

ClientSampleId :

PST-072-B155-031919

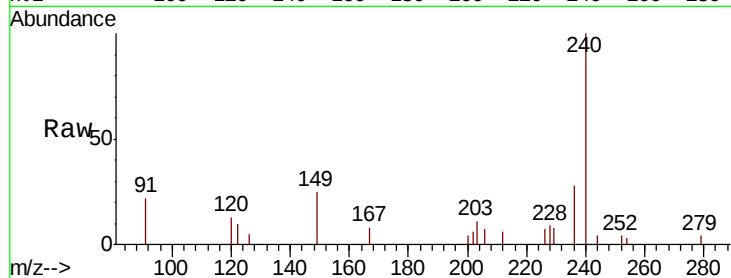
Tgt Ion:240 Resp: 16661

Ion Ratio Lower Upper

240 100

120 13.1 7.2 10.8#

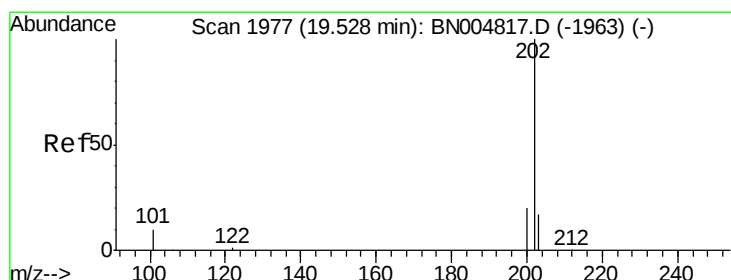
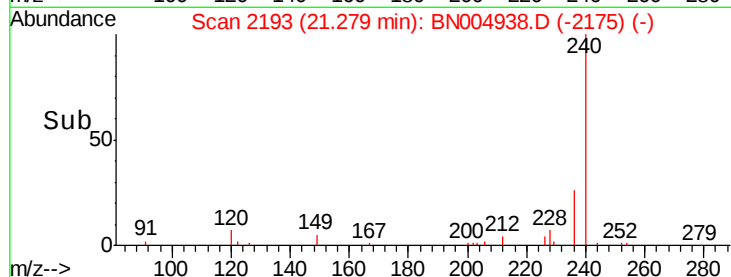
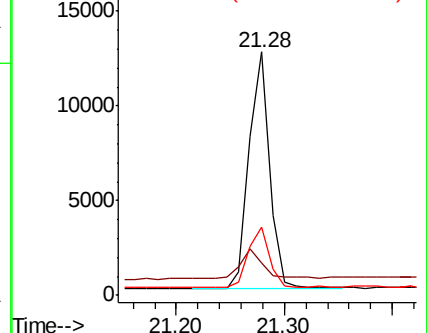
236 28.1 20.9 31.3



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: 0.196 ng

RT: 19.51 min Scan# 1973

Delta R.T. -0.02 min

Lab File: BN004938.D

Acq: 24 Mar 2019 14:40

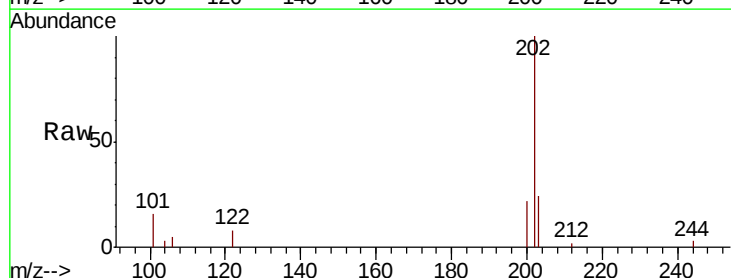
Tgt Ion:202 Resp: 9980

Ion Ratio Lower Upper

202 100

200 21.0 16.3 24.5

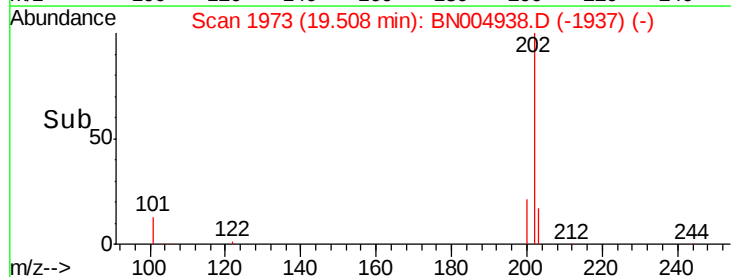
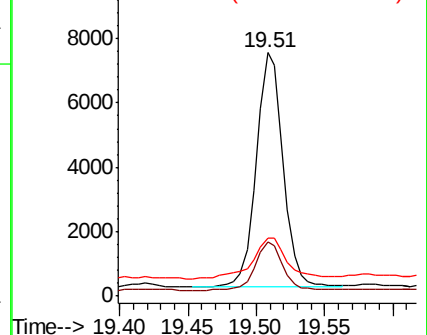
203 22.4 14.0 21.0#

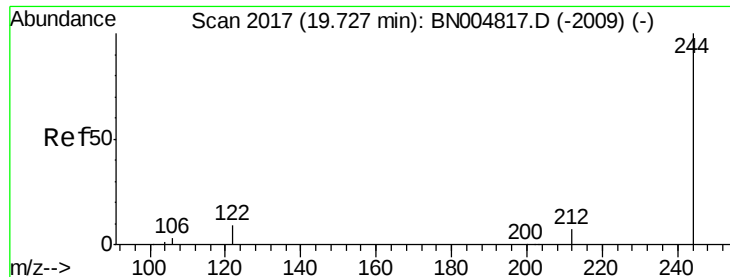


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.251 ng

RT: 19.71 min Scan# 2014

Delta R.T. -0.01 min

Lab File: BN004938.D

Acq: 24 Mar 2019 14:40

Instrument :

BNA_N

ClientSampleId :

PST-072-B155-031919

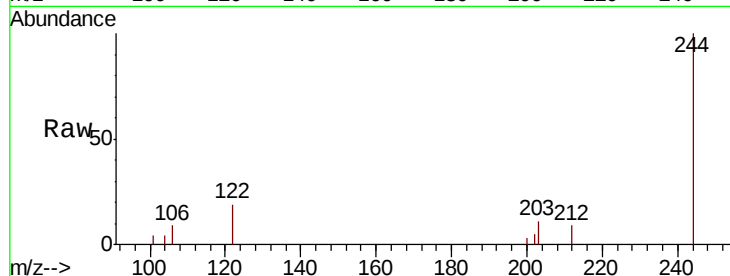
Tgt Ion:244 Resp: 8568

Ion Ratio Lower Upper

244 100

212 9.2 5.8 8.6#

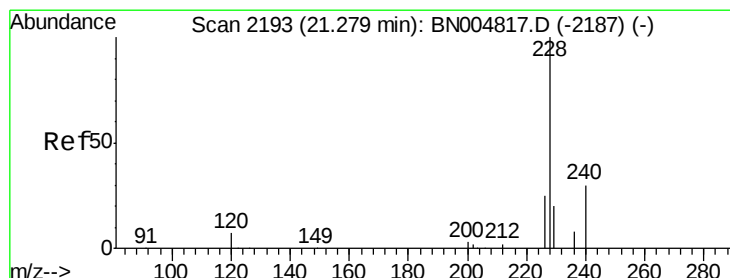
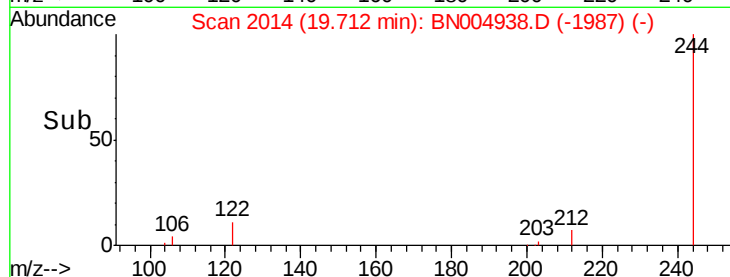
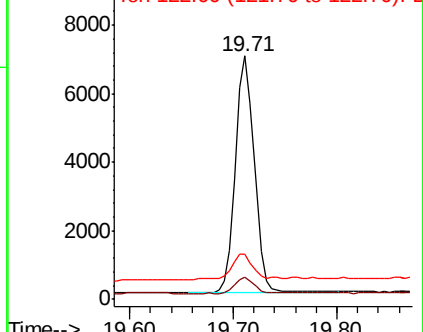
122 18.7 7.9 11.9#



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#30

Benzo(a)anthracene

Concen: 0.090 ng

RT: 21.26 min Scan# 2191

Delta R.T. -0.02 min

Lab File: BN004938.D

Acq: 24 Mar 2019 14:40

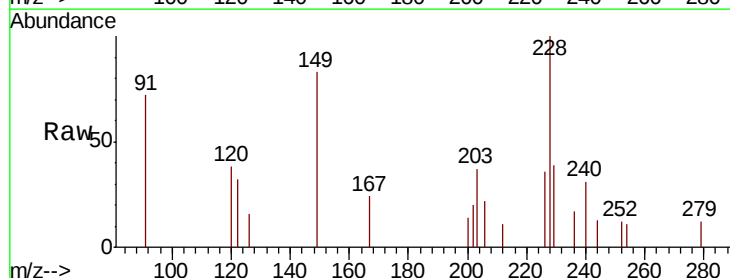
Tgt Ion:228 Resp: 4898

Ion Ratio Lower Upper

228 100

226 35.8 20.6 31.0#

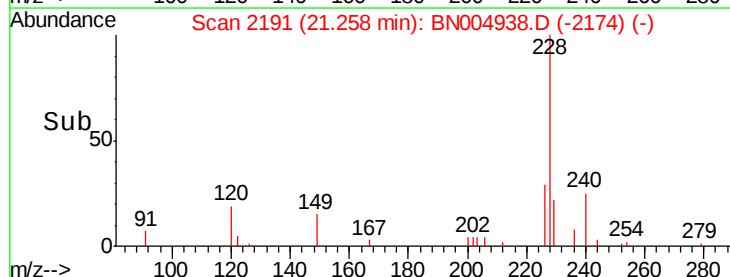
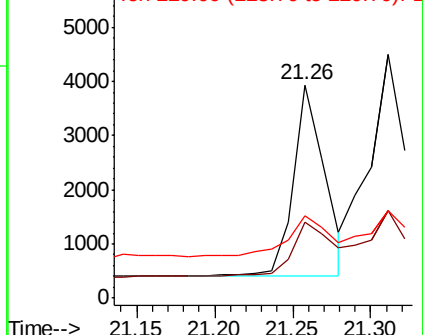
229 38.9 16.2 24.4#

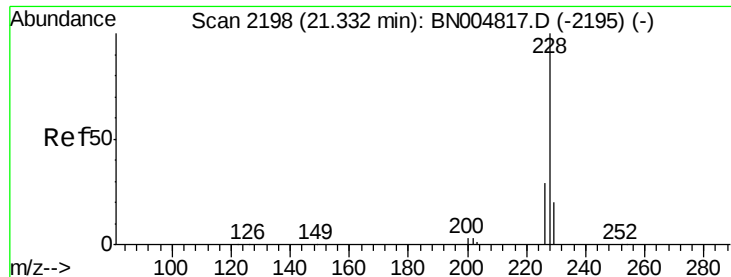


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.111 ng

RT: 21.31 min Scan# 2196

Delta R.T. -0.02 min

Lab File: BN004938.D

Acq: 24 Mar 2019 14:40

Instrument :

BNA_N

ClientSampleId :

PST-072-B155-031919

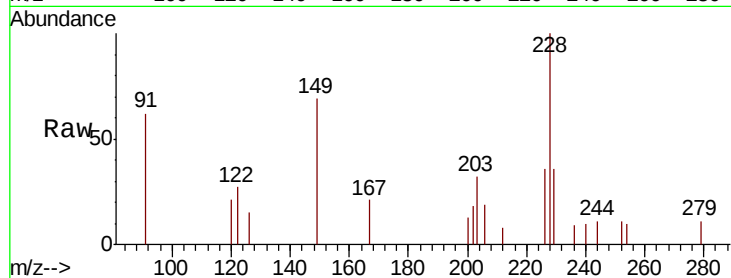
Tgt Ion: 228 Resp: 6408

Ion Ratio Lower Upper

228 100

226 35.9 23.0 34.6#

229 35.7 16.2 24.2#

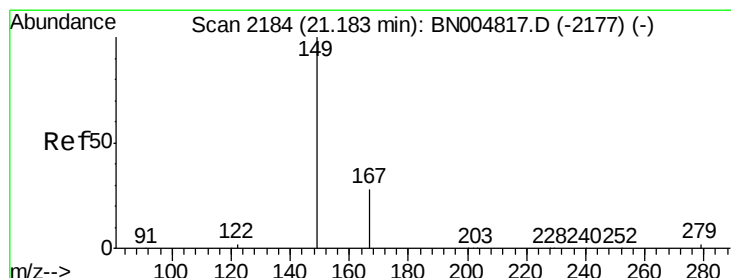
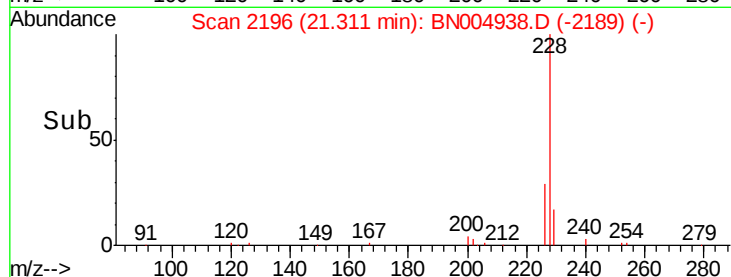
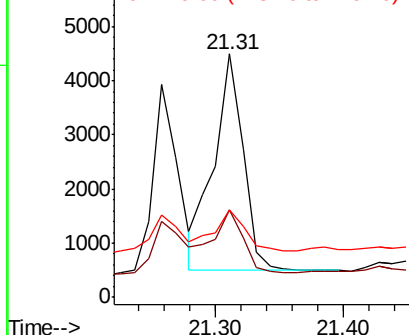


Abundance

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: 0.455 ng

RT: 21.17 min Scan# 2183

Delta R.T. -0.01 min

Lab File: BN004938.D

Acq: 24 Mar 2019 14:40

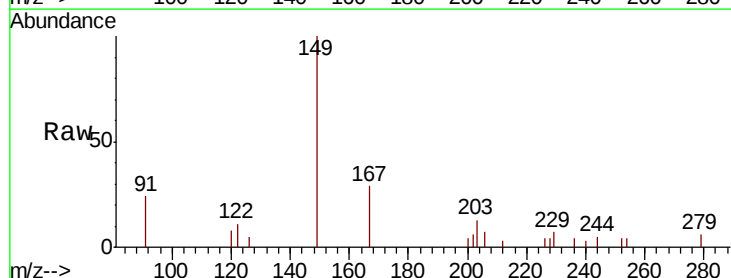
Tgt Ion: 149 Resp: 9924

Ion Ratio Lower Upper

149 100

167 29.0 23.0 34.4

279 6.4 4.6 6.8

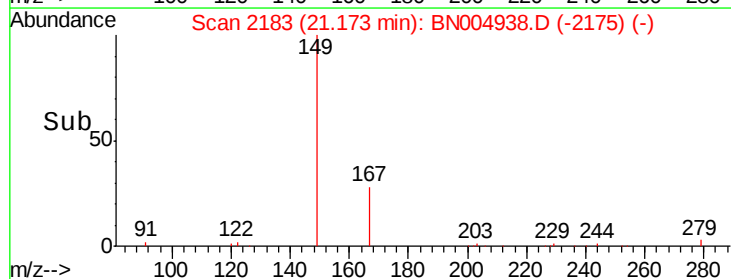
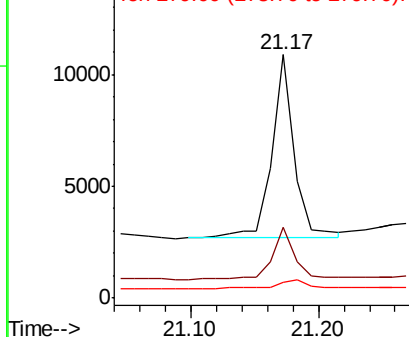


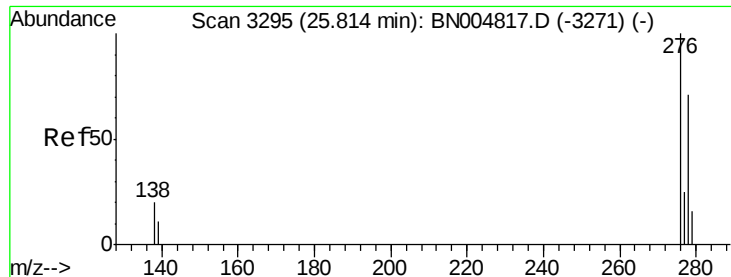
Abundance

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: 0.055 ng

RT: 25.79 min Scan# 3289

Delta R.T. -0.02 min

Lab File: BN004938.D

Acq: 24 Mar 2019 14:40

Instrument :

BNA_N

ClientSampleId :

PST-072-B155-031919

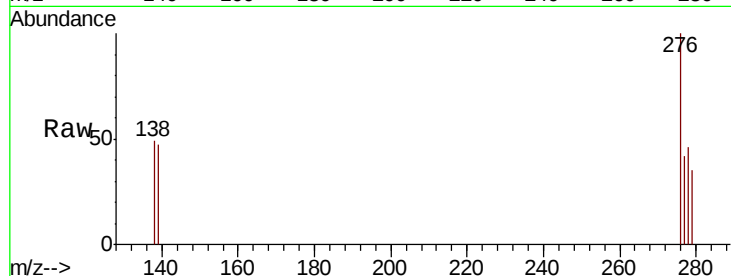
Tgt Ion:276 Resp: 4588

Ion Ratio Lower Upper

276 100

138 25.0 16.6 24.8#

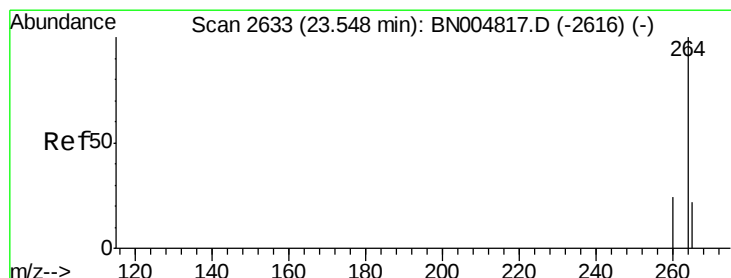
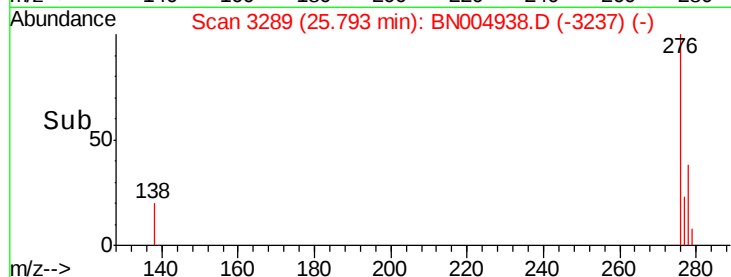
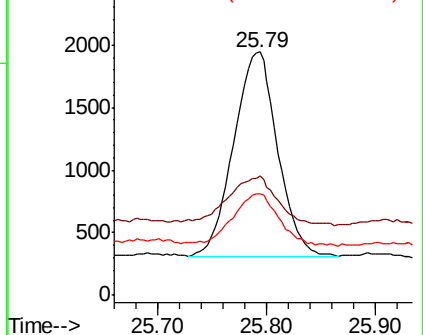
277 25.4 20.3 30.5



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: 23.52 min Scan# 2626

Delta R.T. -0.02 min

Lab File: BN004938.D

Acq: 24 Mar 2019 14:40

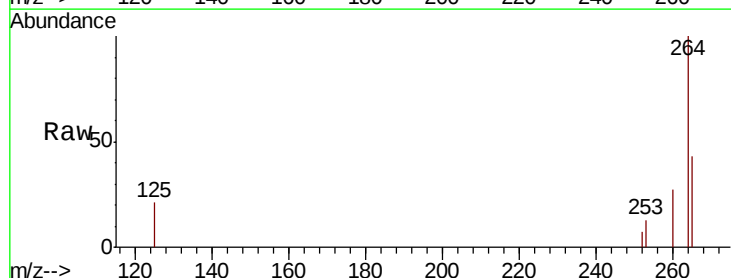
Tgt Ion:264 Resp: 16855

Ion Ratio Lower Upper

264 100

260 27.1 19.5 29.3

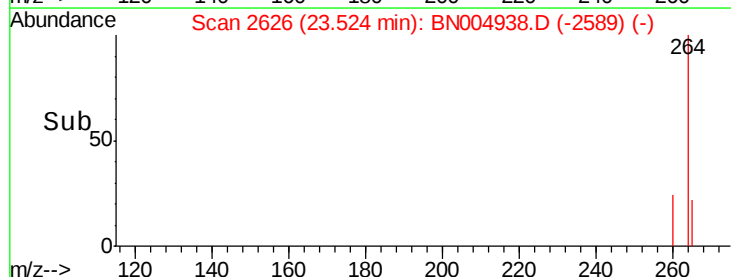
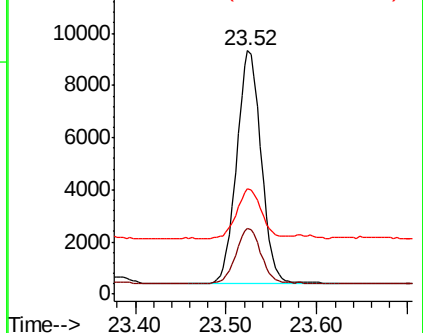
265 43.1 23.1 34.7#

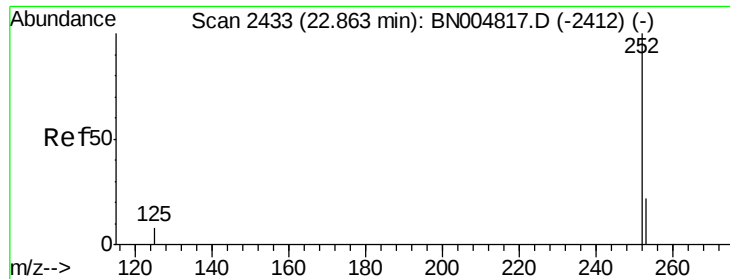


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

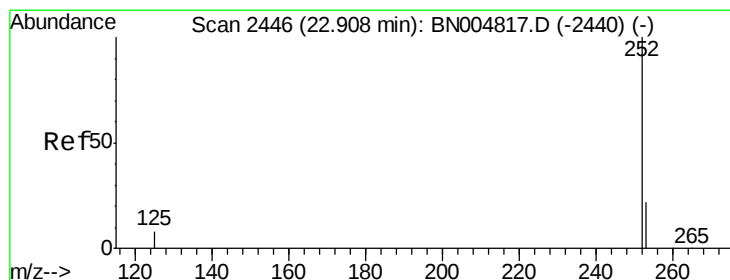
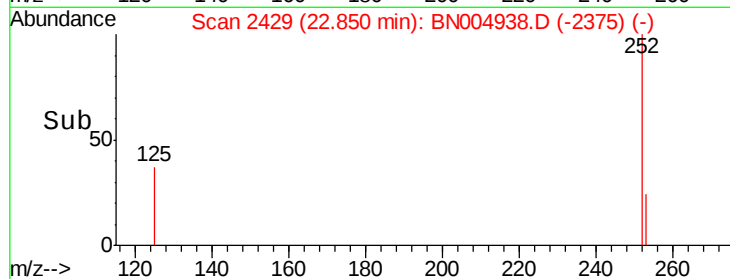
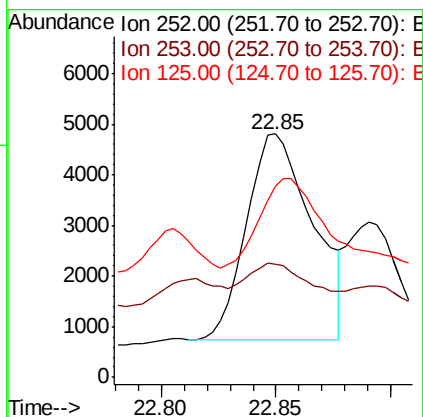
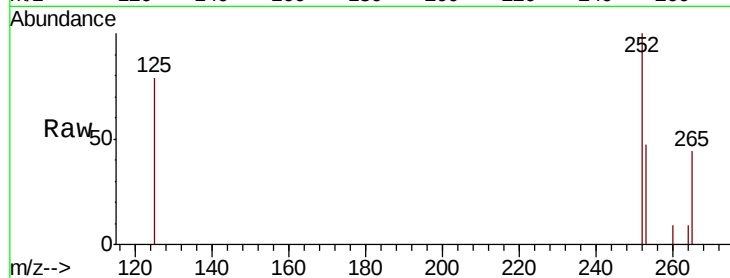




#35
Benzo(b)fluoranthene
Concen: 0.133 ng
RT: 22.85 min Scan# 2429
Delta R.T. -0.01 min
Lab File: BN004938.D
Acq: 24 Mar 2019 14:40

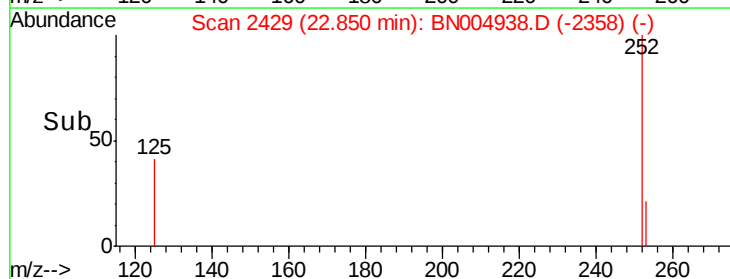
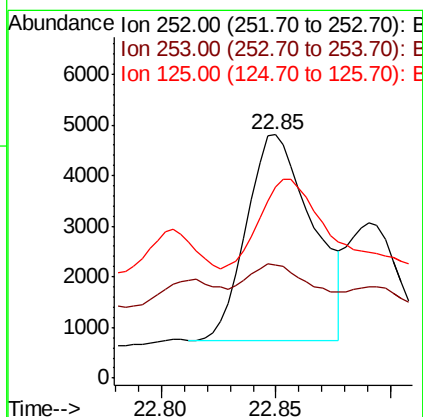
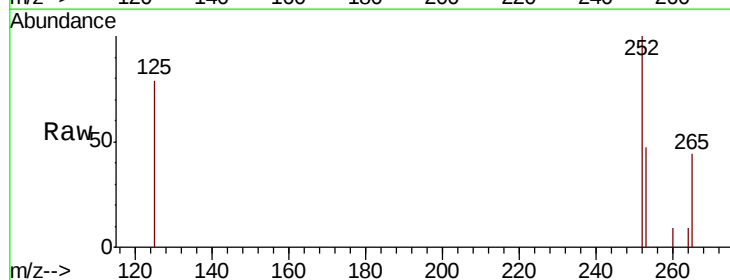
Instrument :
BNA_N
ClientSampleId :
PST-072-B155-031919

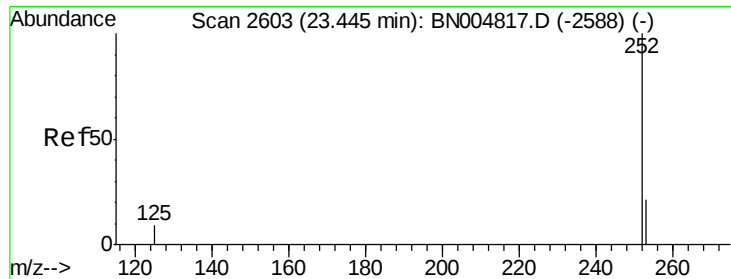
Tgt Ion:252 Resp: 8137
Ion Ratio Lower Upper
252 100
253 46.7 19.0 28.4#
125 78.6 7.4 11.2#



#36
Benzo(k)fluoranthene
Concen: 0.136 ng
RT: 22.85 min Scan# 2429
Delta R.T. -0.06 min
Lab File: BN004938.D
Acq: 24 Mar 2019 14:40

Tgt Ion:252 Resp: 8137
Ion Ratio Lower Upper
252 100
253 46.7 19.3 28.9#
125 78.6 7.4 11.0#





#37

Benzo(a)pyrene

Concen: 0.085 ng

RT: 23.42 min Scan# 2597

Delta R.T. -0.02 min

Lab File: BN004938.D

Acq: 24 Mar 2019 14:40

Instrument :

BNA_N

ClientSampleId :

PST-072-B155-031919

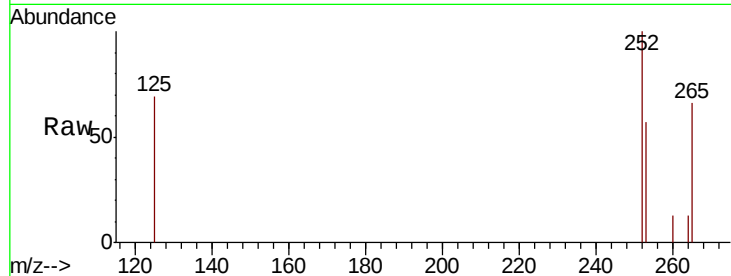
Tgt Ion:252 Resp: 4732

Ion Ratio Lower Upper

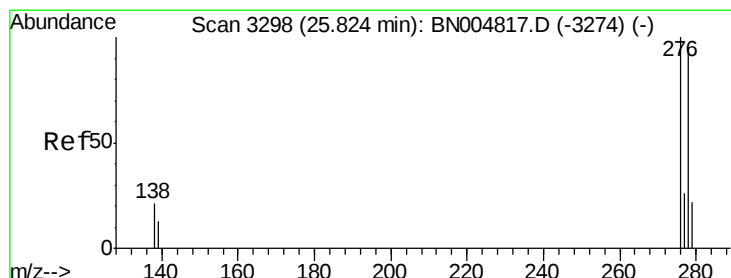
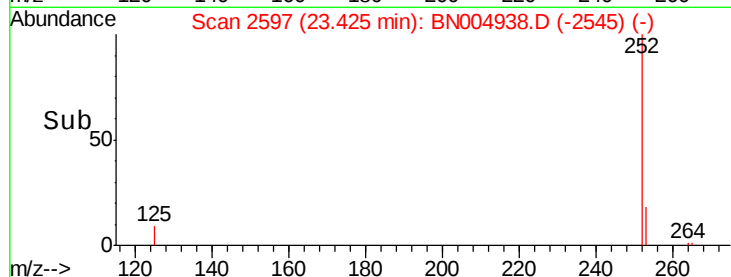
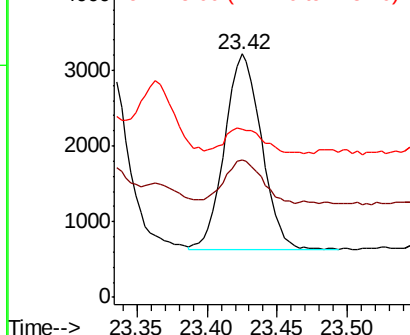
252 100

253 56.7 19.7 29.5#

125 69.3 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: 0.030 ng

RT: 25.80 min Scan# 3290

Delta R.T. -0.03 min

Lab File: BN004938.D

Acq: 24 Mar 2019 14:40

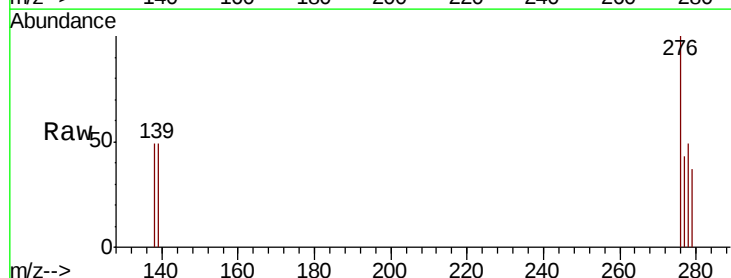
Tgt Ion:278 Resp: 1961

Ion Ratio Lower Upper

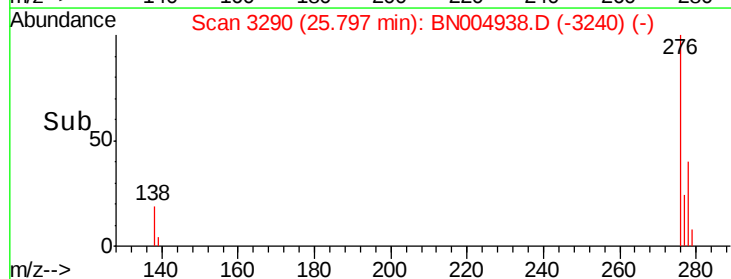
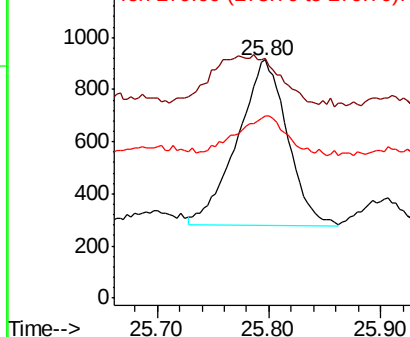
278 100

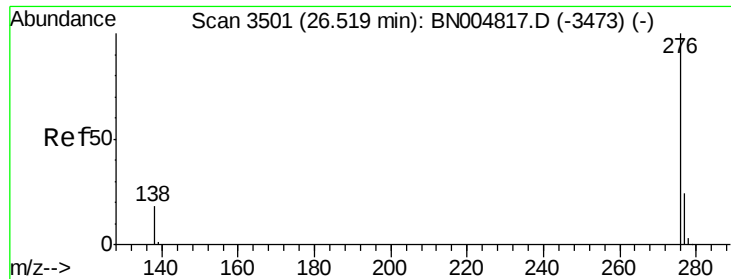
139 100.9 11.7 17.5#

279 76.5 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: 0.077 ng

RT: 26.49 min Scan# 3492

Delta R.T. -0.03 min

Lab File: BN004938.D

Acq: 24 Mar 2019 14:40

Instrument :

BNA_N

ClientSampleId :

PST-072-B155-031919

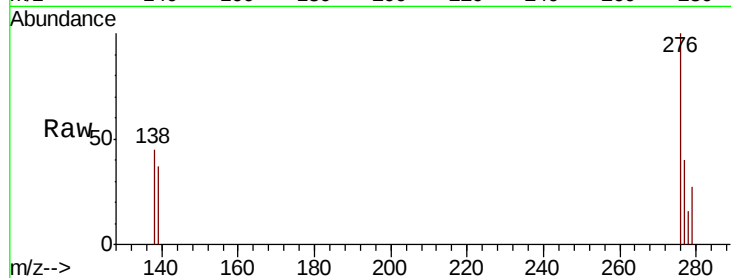
Tgt Ion: 276 Resp: 5052

Ion Ratio Lower Upper

276 100

277 40.1 19.7 29.5#

138 44.7 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

