

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN050919\
 Data File : BN005579.D
 Acq On : 09 May 2019 22:53
 Operator : JU/SJ
 Sample : K2604-20 20X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :

Quant Time: May 10 01:21:49 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Tue May 07 05:36:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.59	152	163898	20.00	ng/ul	0.00
18) Naphthalene-d8	10.37	136	688629	20.00	ng/ul	0.02
35) Acenaphthene-d10	14.23	164	461819	20.00	ng/ul	0.00
61) Phenanthrene-d10	16.99	188	866839	20.00	ng/ul	0.01
77) Chrysene-d12	21.22	240	583394	20.00	ng/ul	0.00
85) Perylene-d12	23.42	264	646837	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.22	96	470	0.14	ng/uL	0.00
5) Phenol-d5	6.78	99	16456	1.28	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	6.94	67	12188	1.52	ng/ul	0.00
9) 2-Chlorophenol-d4	7.13	132	13980	1.42	ng/ul	0.00
13) 4-Methylphenol-d8	8.30	113	14233	1.41	ng/ul	0.01
19) Nitrobenzene-d5	8.74	128	5704	1.35	ng/ul	0.00
22) 2-Nitrophenol-d4	9.45	143	7274	1.69	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.00	165	15146	1.54	ng/ul	0.02
29) 4-Chloroaniline-d4	10.54	131	47125	4.64	ng/ul	0.05
43) Dimethylphthalate-d6	13.65	166	75292	2.25	ng/ul	0.00
46) Acenaphthylene-d8	13.93	160	63879	1.55	ng/ul	0.02
51) 4-Nitrophenol-d4	14.44	143	4313	0.81	ng/ul	0.00
57) Fluorene-d10	15.23	176	51879	1.84	ng/ul	0.01
62) 4,6-Dinitro-2-methylphenol	15.40	200	1868	0.48	ng/ul	0.04
70) Anthracene-d10	17.10	188	67310	1.85	ng/ul	0.02
78) Pyrene-d10	19.40	212	65977	2.21	ng/ul	0.01
89) Benzo(a)pyrene-d12	23.29	264	50277	1.78	ng/ul	0.00

Target Compounds

					Ovalue	
4) Benzaldehyde	6.75	77	28761	3.153	ng/ul#	1
14) Acetophenone	8.38	105	57608	3.577	ng/ul#	32
17) Hexachloroethane	8.68	117	202530	45.794	ng/ul#	6
30) 4-Chloroaniline	10.46	127	8516564	823.180	ng/ul#	13
32) Caprolactam	11.29	113	6258	2.128	ng/ul#	1
34) 2-Methylnaphthalene	11.89	142	407826	17.398	ng/ul#	70
40) 1,1'-Biphenyl	13.06	154	4091021	118.891	ng/ul	98
47) Acenaphthylene	13.96	152	18850600	465.854	ng/ul#	86
49) Acenaphthene	14.30	153	1682165	60.893	ng/ul	99
53) Dibenzofuran	14.63	168	1863268	46.847	ng/ul	99
54) 2,4-Dinitrotoluene	14.47	165	9859	1.186	ng/ul	98
58) Fluorene	15.30	166	10517717	338.891	ng/ul	97
60) 4-Nitroaniline	15.30	138	123271	18.440	ng/ul#	15
64) N-Nitrosodiphenylamine	15.50	169	127584	5.378	ng/ul#	20
69) Phenanthrene	17.13	178	9944742	235.566	ng/ul	98
71) Anthracene	17.13	178	9913518	230.516	ng/ul	98
74) Carbazole	17.39	167	135855	3.677	ng/ul#	81
76) Fluoranthene	19.07	202	13185950	281.594	ng/ul	100
79) Pyrene	19.44	202	16500259	439.270	ng/ul	97
82) Benzo(a)anthracene	21.26	228	5107652	140.733	ng/ul	95
84) Chrysene	21.26	228	5108634	151.666	ng/ul	98
87) Benzo(b)fluoranthene	22.78	252	4058478	111.618	ng/ul#	97
88) Benzo(k)fluoranthene	22.78	252	4058478	116.870	ng/ul	98

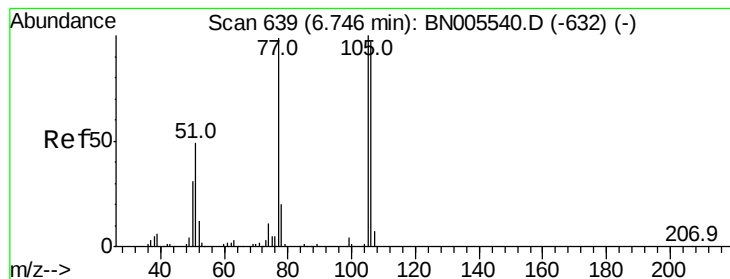
Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN050919\
Data File : BN005579.D
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Quant Title : SVOA CALIBRATION
QLast Update : Tue May 07 05:36:07 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
90) Benzo(a)pyrene	23.24	252	2300376	67.308	ng/ul	98
91) Indeno(1,2,3-cd)pyrene	25.62	276	1769454	46.828	ng/ul#	93
92) Dibenzo(a,h)anthracene	25.62	278	527410	16.447	ng/ul	98
93) Benzo(g,h,i)perylene	26.29	276	1880424	60.185	ng/ul#	93

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



#4

Benzaldehyde

Concen: 3.153 ng/ul

RT: 6.75 min Scan# 640

Delta R.T. 0.01 min

Lab File: BN005579.D

Acq: 09 May 2019 22:53

Instrument :

BNA_N

ClientSampled :

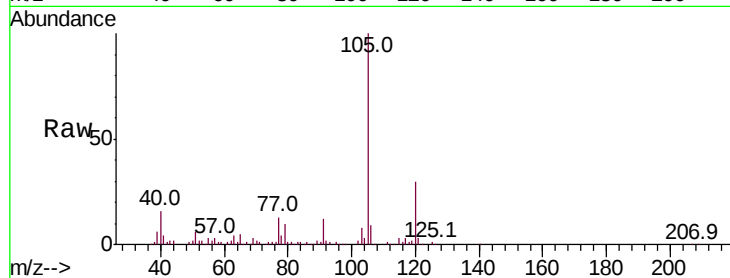
Tot Ion: 77 Resp: 28761

Ion Ratio Lower Upper

77 100

105 798.7 77.4 116.2#

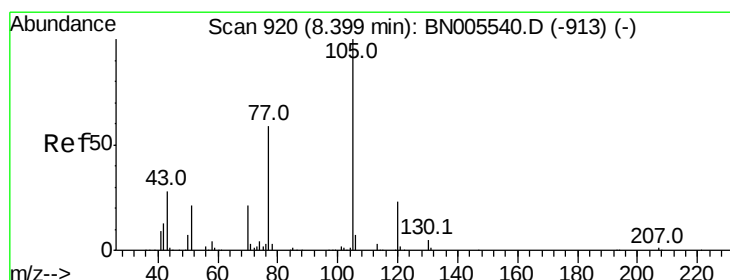
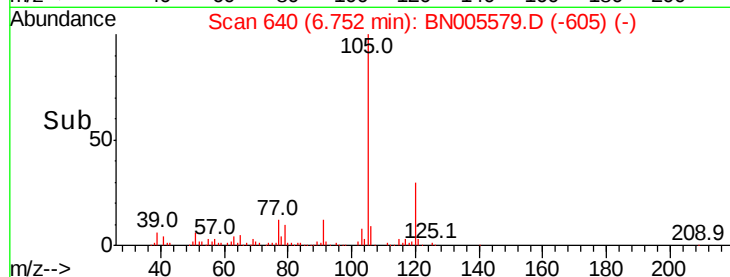
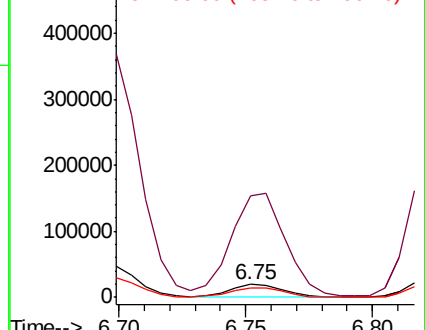
106 72.2 76.3 114.5#



Abundance Ion 77.00 (76.70 to 77.70): BN005540.D (-632) (-)

Ion 105.00 (104.70 to 105.70): BN005540.D (-632) (-)

Ion 106.00 (105.70 to 106.70): BN005540.D (-632) (-)



#14

Acetophenone

Concen: 3.577 ng/ul

RT: 8.38 min Scan# 917

Delta R.T. -0.02 min

Lab File: BN005579.D

Acq: 09 May 2019 22:53

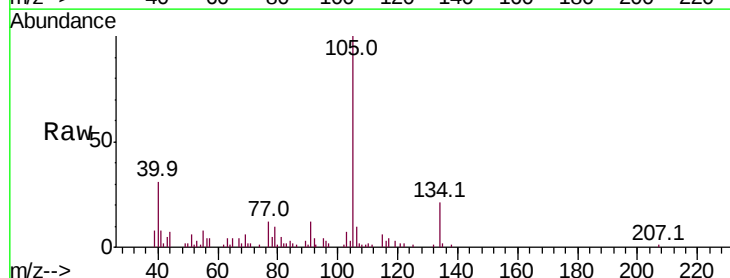
Tgt Ion: 105 Resp: 57608

Ion Ratio Lower Upper

105 100

77 11.7 63.4 95.0#

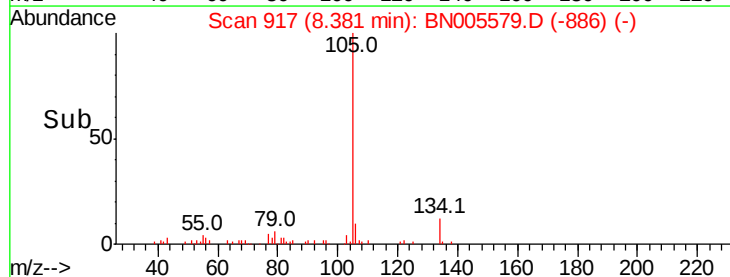
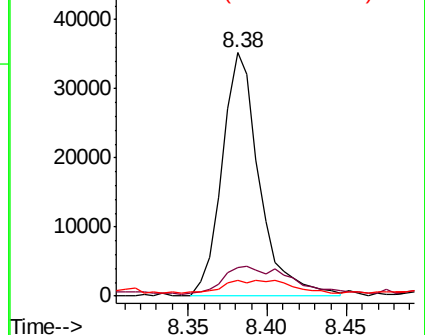
51 6.2 24.2 36.4#

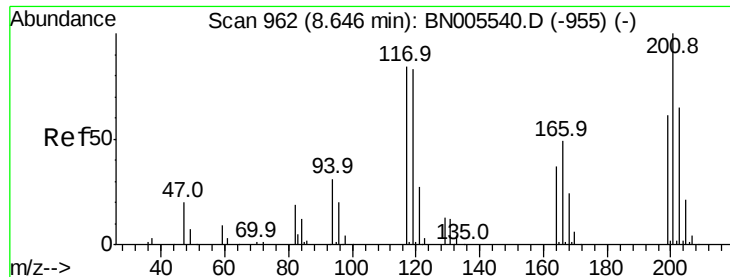


Abundance Ion 105.00 (104.70 to 105.70): BN005540.D (-913) (-)

Ion 77.00 (76.70 to 77.70): BN005540.D (-913) (-)

Ion 51.00 (50.70 to 51.70): BN005540.D (-913) (-)

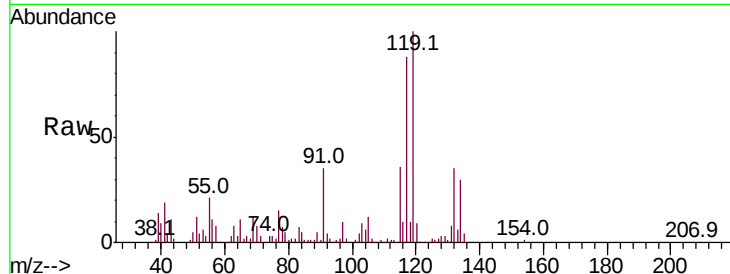




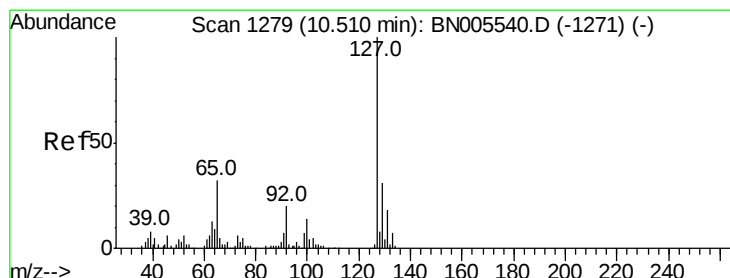
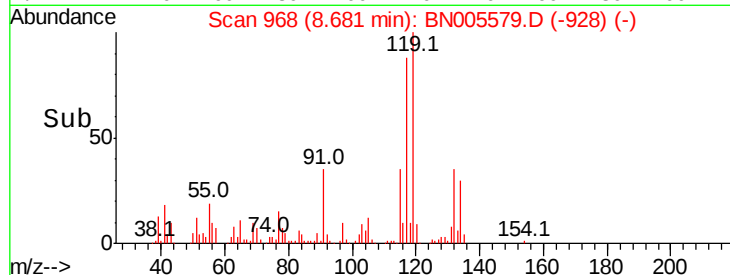
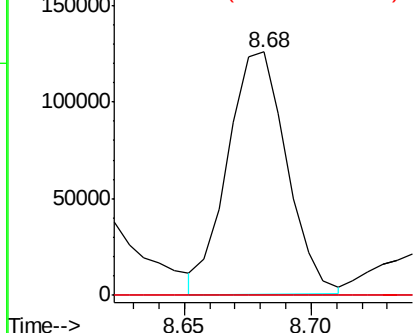
#17
Hexachloroethane
Concen: 45.794 ng/ul
RT: 8.68 min Scan# 968
Delta R.T. 0.04 min
Lab File: BN005579.D
Acq: 09 May 2019 22:53

Instrument :
BNA_N
ClientSampleId :

Tot Ion:117 Resp: 202530
Ion Ratio Lower Upper
117 100
201 0.0 84.1 126.1#
199 0.0 51.2 76.8#

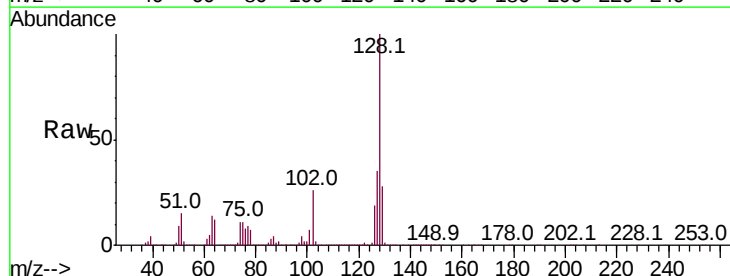


Abundance Ion 117.00 (116.70 to 117.70): E
Ion 201.00 (200.70 to 201.70): E
Ion 199.00 (198.70 to 199.70): E

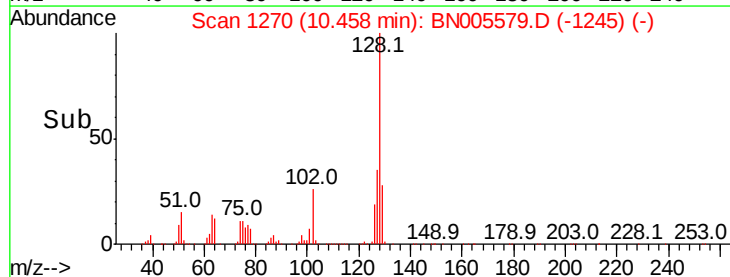
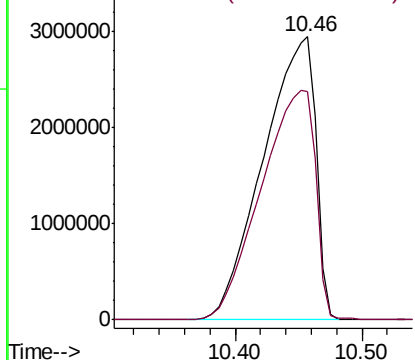


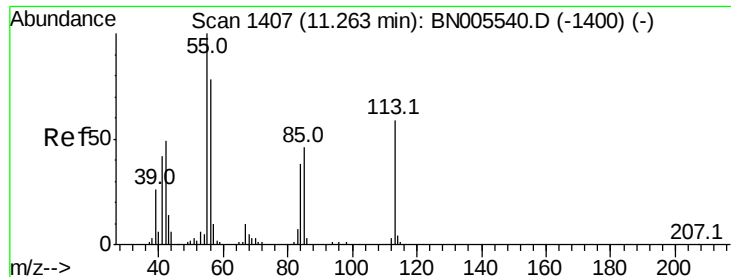
#30
4-Chloroaniline
Concen: 823.180 ng/ul
RT: 10.46 min Scan# 1270
Delta R.T. -0.05 min
Lab File: BN005579.D
Acq: 09 May 2019 22:53

Tgt Ion:127 Resp: 8516564
Ion Ratio Lower Upper
127 100
129 80.8 25.8 38.6#



Abundance Ion 127.00 (126.70 to 127.70): E
Ion 129.00 (128.70 to 129.70): E





#32

Caprolactam

Concen: 2.128 ng/ul

RT: 11.29 min Scan# 1412

Delta R.T. 0.02 min

Lab File: BN005579.D

Acq: 09 May 2019 22:53

Instrument :

BNA_N

ClientSampleId :

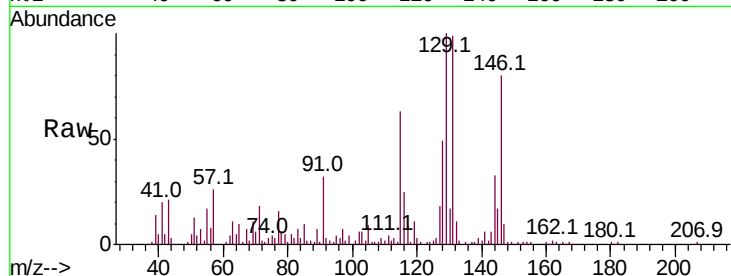
Tot Ion:113 Resp: 6258

Ion Ratio Lower Upper

113 100

55 515.7 157.0 235.4#

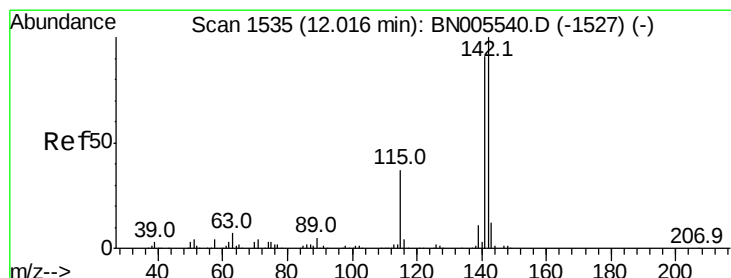
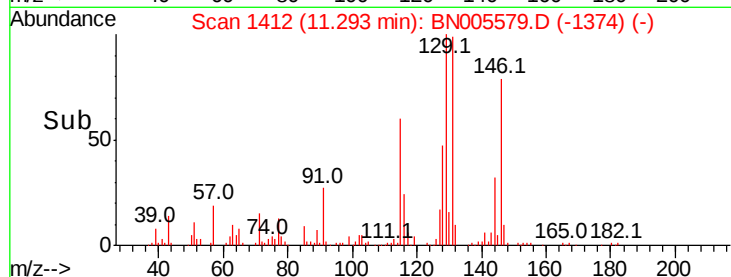
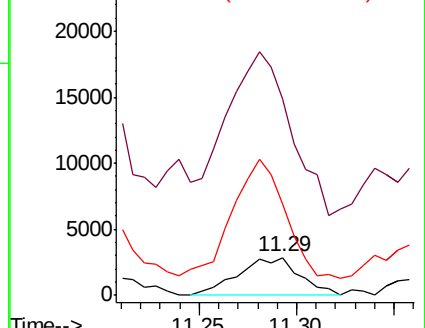
56 240.8 119.1 178.7#



Abundance Ion 113.00 (112.70 to 113.70): E

Ion 55.00 (54.70 to 55.70): BNO

Ion 56.00 (55.70 to 56.70): BNO



#34

2-Methylnaphthalene

Concen: 17.398 ng/ul

RT: 11.89 min Scan# 1514

Delta R.T. -0.12 min

Lab File: BN005579.D

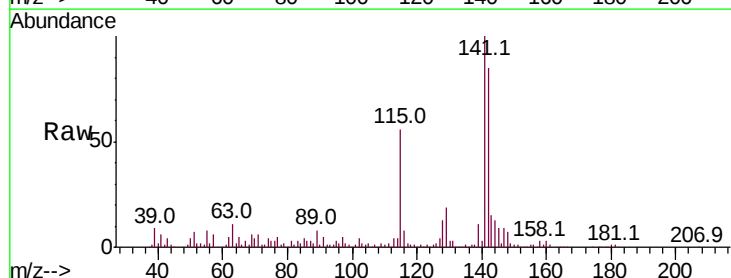
Acq: 09 May 2019 22:53

Tgt Ion:142 Resp: 407826

Ion Ratio Lower Upper

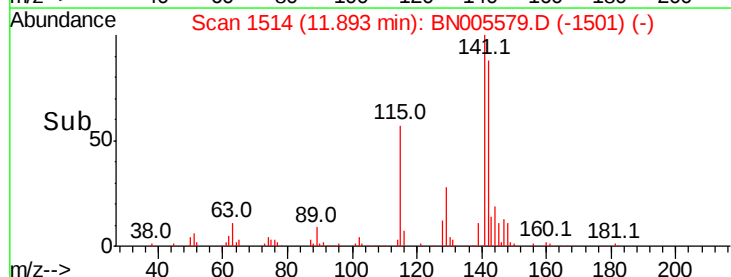
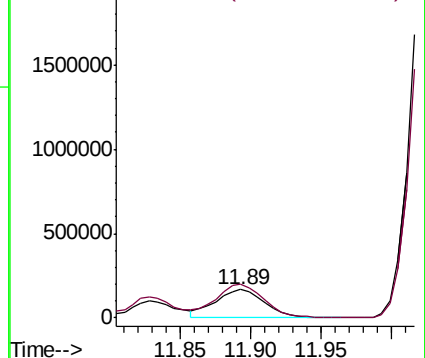
142 100

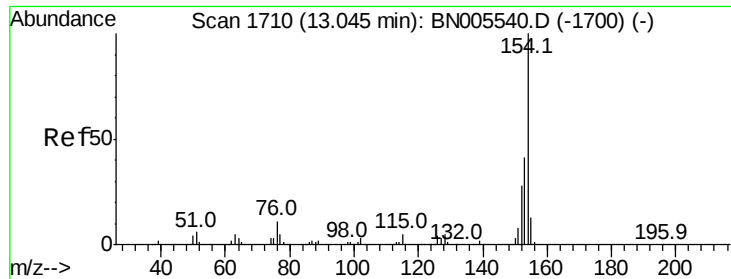
141 117.8 72.0 108.0#



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#40

1,1'-Biphenyl

Concen: 118.891 ng/ul

RT: 13.06 min Scan# 1712

Delta R.T. 0.01 min

Lab File: BN005579.D

Acq: 09 May 2019 22:53

Instrument :

BNA_N

ClientSampleId :

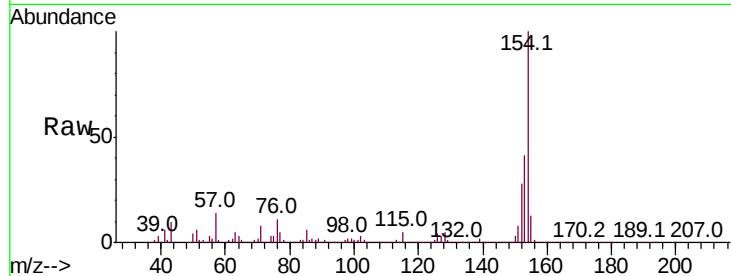
Tot Ion:154 Resp: 4091021

Ion Ratio Lower Upper

154 100

153 40.7 32.6 49.0

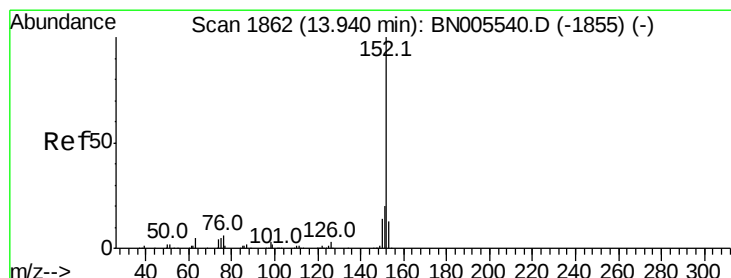
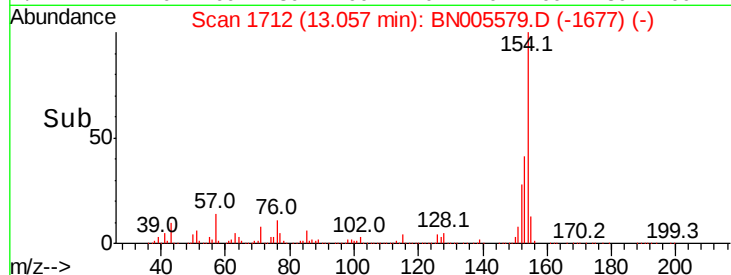
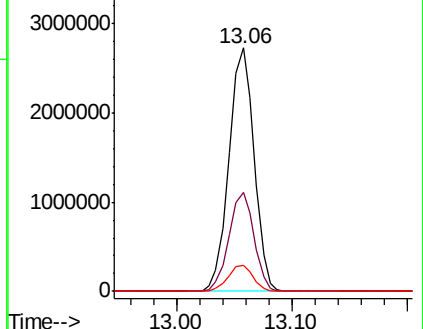
76 10.6 10.4 15.6



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BNC



#47

Acenaphthylene

Concen: 465.854 ng/ul

RT: 13.96 min Scan# 1866

Delta R.T. 0.02 min

Lab File: BN005579.D

Acq: 09 May 2019 22:53

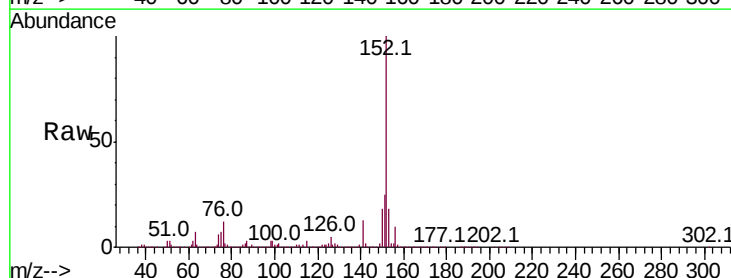
Tgt Ion:152 Resp:18850600

Ion Ratio Lower Upper

152 100

151 25.5 15.8 23.8#

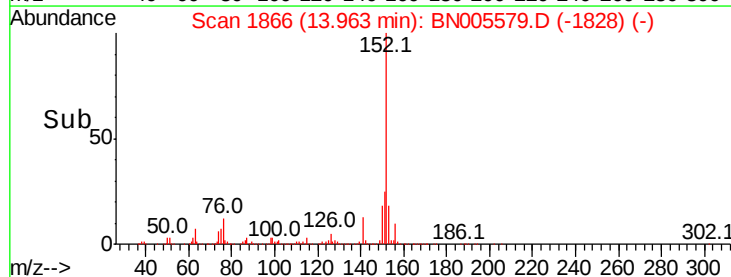
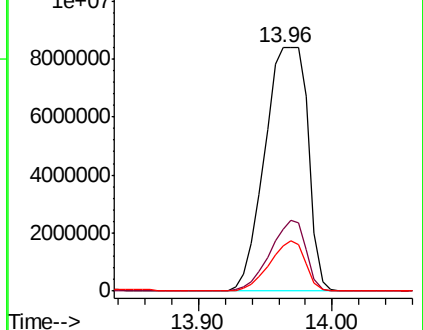
153 18.5 9.8 14.8#

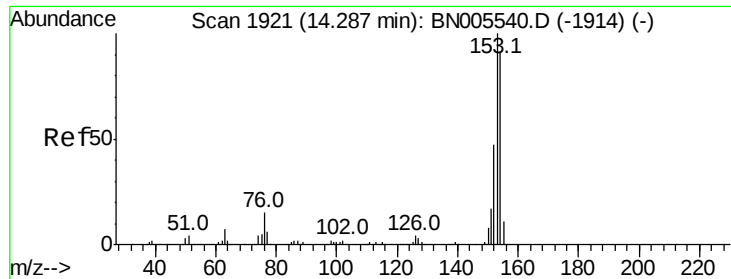


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#49

Acenaphthene

Concen: 60.893 ng/ul

RT: 14.30 min Scan# 1923

Delta R.T. 0.01 min

Lab File: BN005579.D

Acq: 09 May 2019 22:53

Instrument :

BNA_N

ClientSampleId :

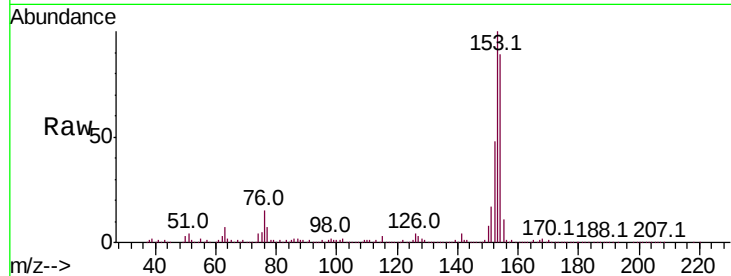
Tot Ion:153 Resp: 1682165

Ion Ratio Lower Upper

153 100

152 47.8 37.4 56.0

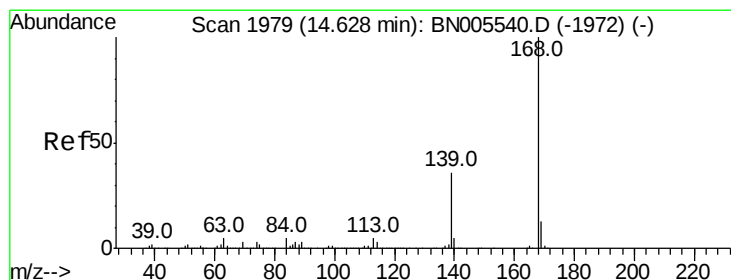
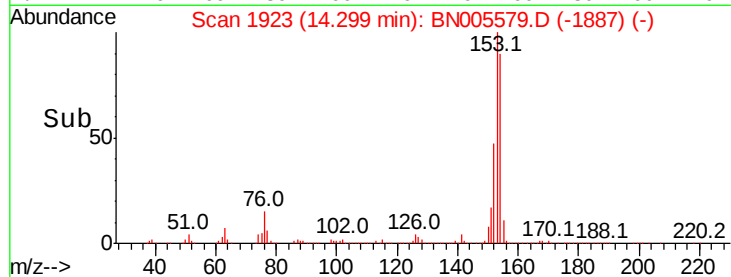
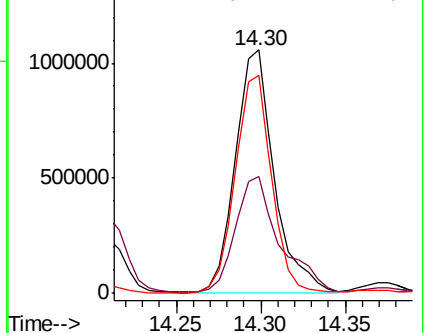
154 89.5 71.2 106.8



Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E



#53

Dibenzofuran

Concen: 46.847 ng/ul

RT: 14.63 min Scan# 1980

Delta R.T. 0.01 min

Lab File: BN005579.D

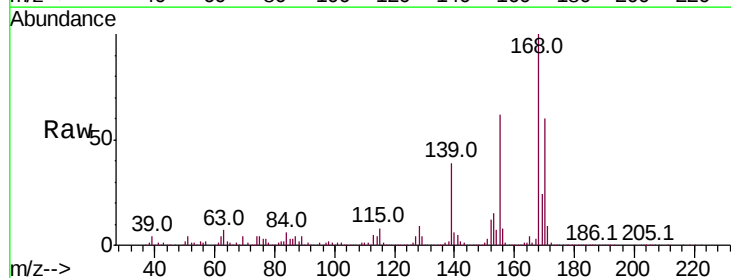
Acq: 09 May 2019 22:53

Tgt Ion:168 Resp: 1863268

Ion Ratio Lower Upper

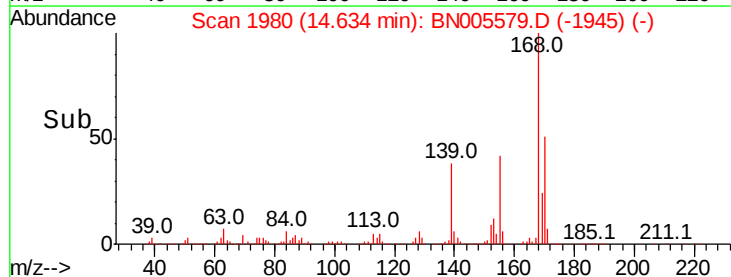
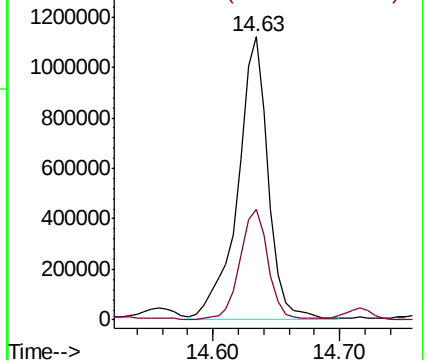
168 100

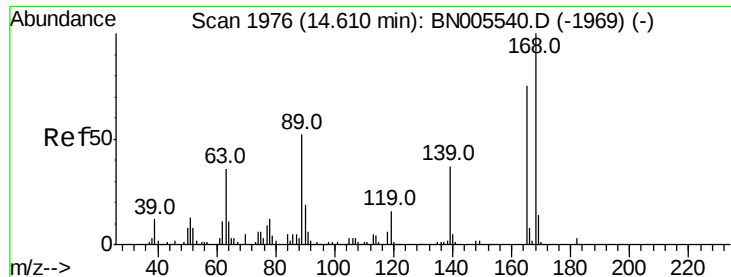
139 39.0 30.9 46.3



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

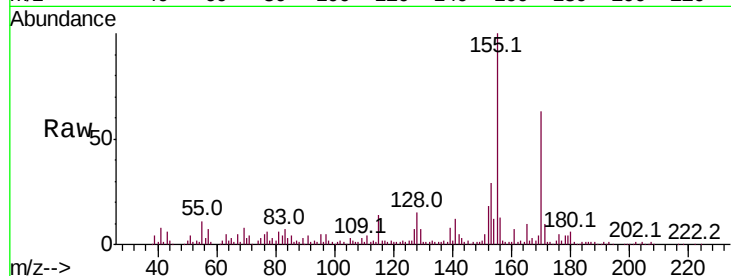




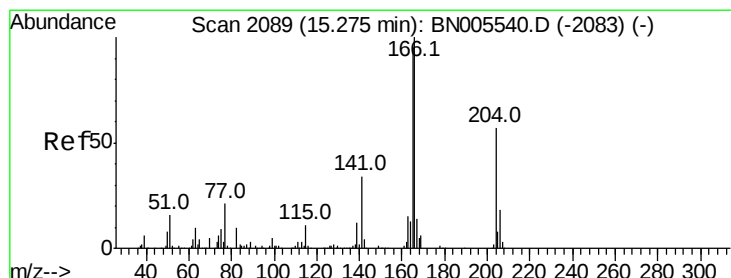
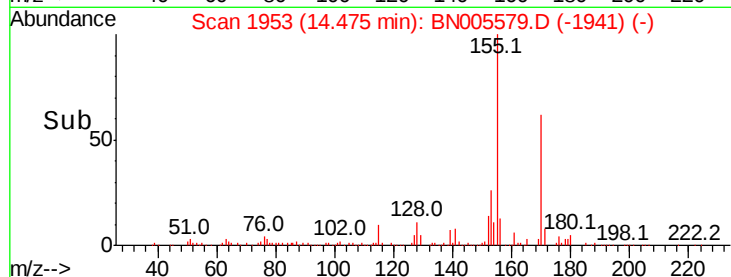
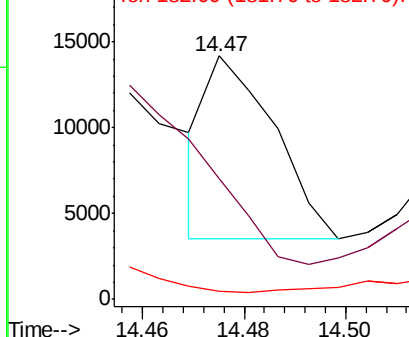
#54
2,4-Dinitrotoluene
Concen: 1.186 ng/ul
RT: 14.47 min Scan# 1953
Delta R.T. -0.13 min
Lab File: BN005579.D
Acq: 09 May 2019 22:53

Instrument :
BNA_N
ClientSampleId :

Tot Ion:165 Resp: 9859
Ion Ratio Lower Upper
165 100
63 49.8 38.9 58.3
182 3.1 2.6 3.8

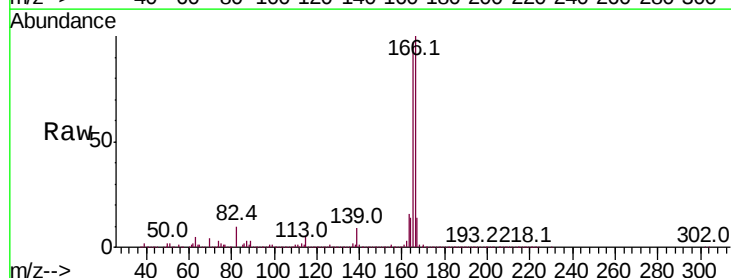


Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BNO
Ion 182.00 (181.70 to 182.70): E

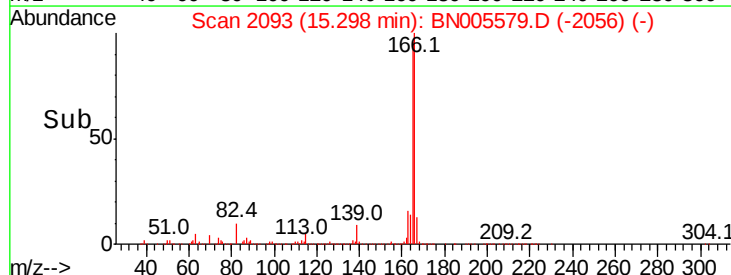
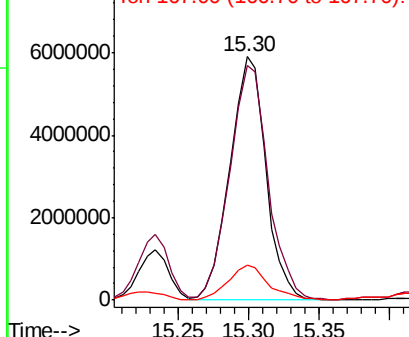


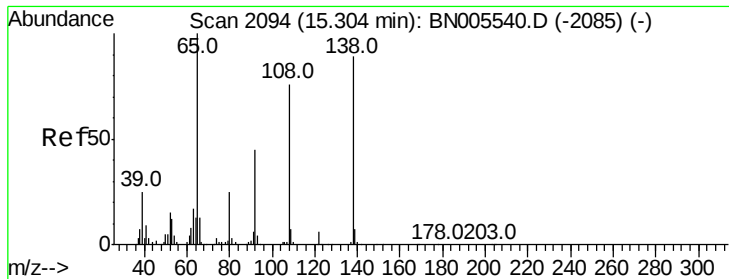
#58
Fluorene
Concen: 338.891 ng/ul
RT: 15.30 min Scan# 2093
Delta R.T. 0.02 min
Lab File: BN005579.D
Acq: 09 May 2019 22:53

Tgt Ion:166 Resp:10517717
Ion Ratio Lower Upper
166 100
165 96.6 80.0 120.0
167 14.1 10.7 16.1



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

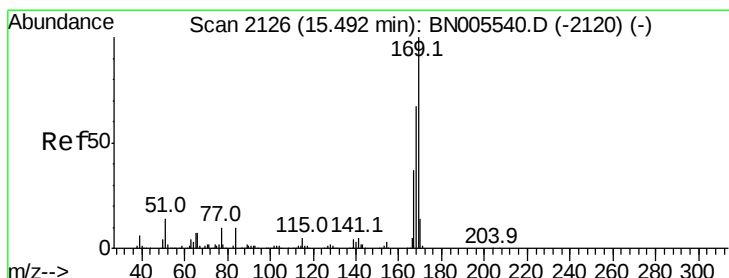
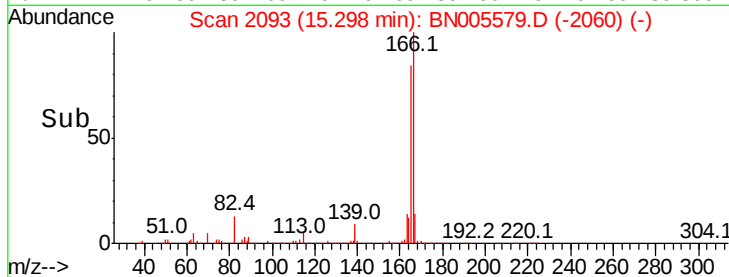
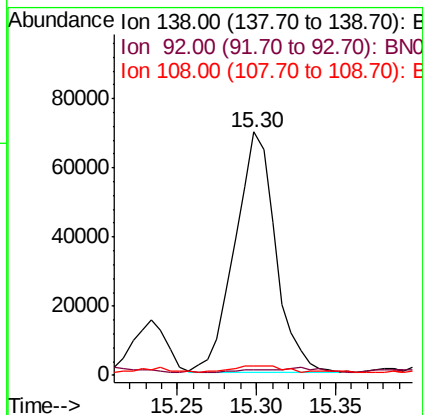
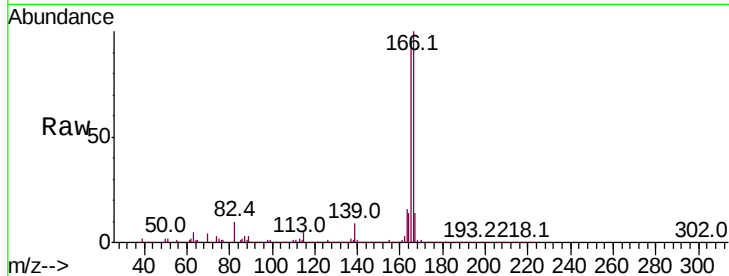




#60
4-Nitroaniline
Concen: 18.440 ng/ul
RT: 15.30 min Scan# 2093
Delta R.T. -0.01 min
Lab File: BN005579.D
Acq: 09 May 2019 22:53

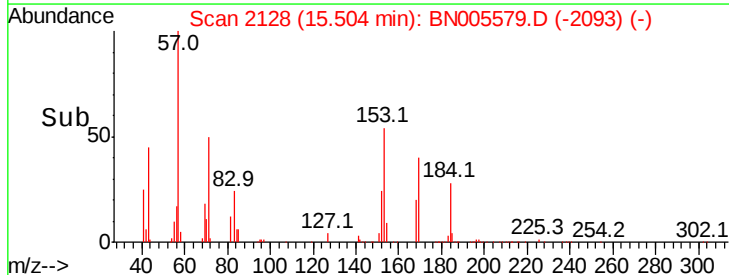
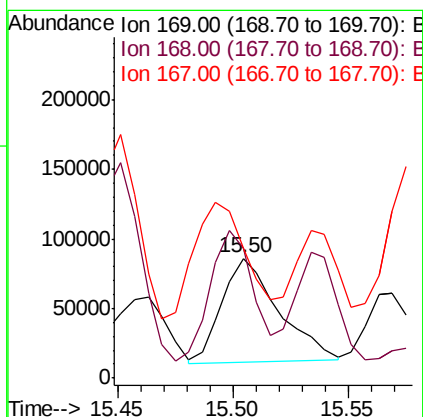
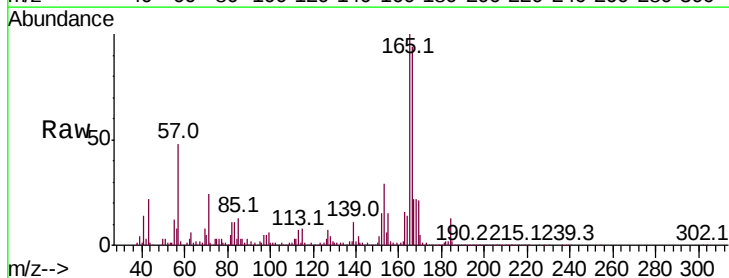
Instrument :
BNA_N
ClientSampleId :

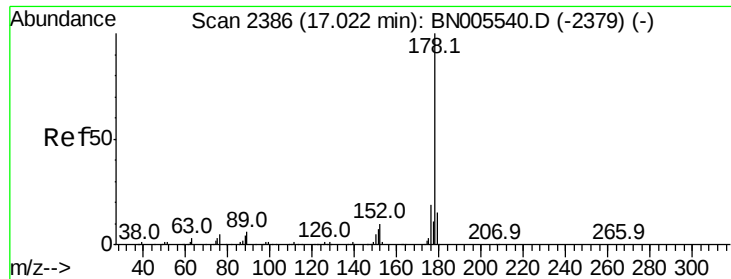
Tot Ion:138 Resp: 123271
Ion Ratio Lower Upper
138 100
92 2.4 45.3 67.9#
108 3.8 73.2 109.8#



#64
N-Nitrosodiphenylamine
Concen: 5.378 ng/ul
RT: 15.50 min Scan# 2128
Delta R.T. 0.01 min
Lab File: BN005579.D
Acq: 09 May 2019 22:53

Tgt Ion:169 Resp: 127584
Ion Ratio Lower Upper
169 100
168 108.3 52.2 78.2#
167 108.5 27.7 41.5#





#69

Phenanthrene

Concen: 235.566 ng/ul

RT: 17.13 min Scan# 2405

Delta R.T. 0.11 min

Lab File: BN005579.D

Acq: 09 May 2019 22:53

Instrument :

BNA_N

ClientSampleId :

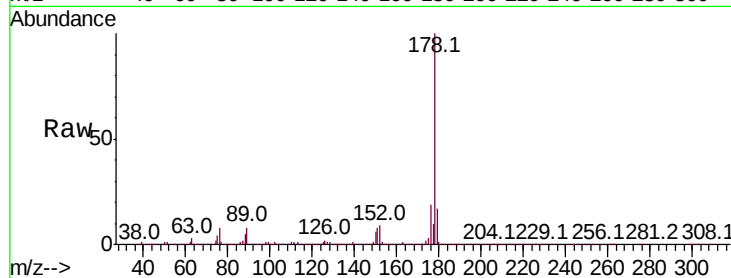
Tot Ion:178 Resp: 9944742

Ion Ratio Lower Upper

178 100

179 16.6 12.2 18.4

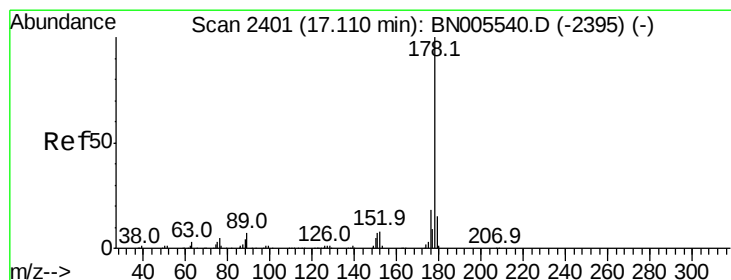
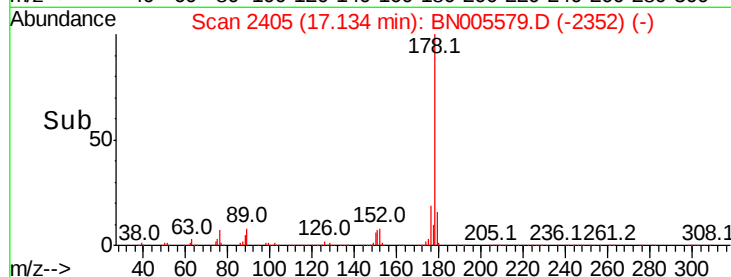
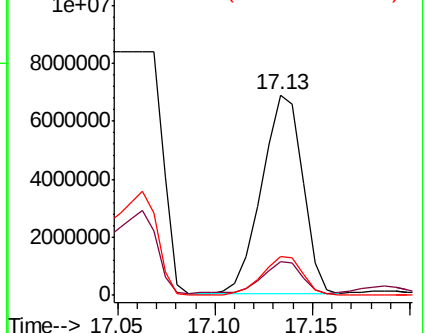
176 19.3 15.1 22.7



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



#71

Anthracene

Concen: 230.516 ng/ul

RT: 17.13 min Scan# 2405

Delta R.T. 0.02 min

Lab File: BN005579.D

Acq: 09 May 2019 22:53

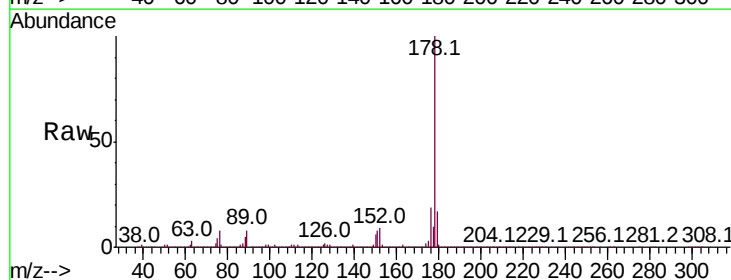
Tgt Ion:178 Resp: 9913518

Ion Ratio Lower Upper

178 100

179 16.6 12.3 18.5

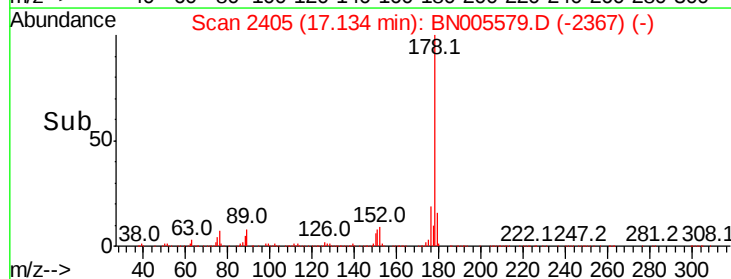
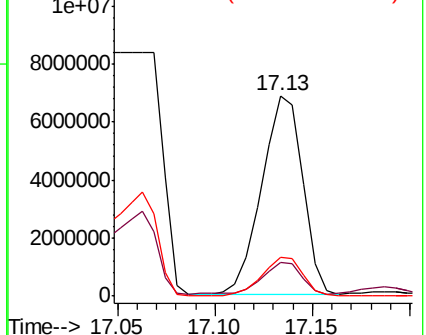
176 19.3 15.1 22.7

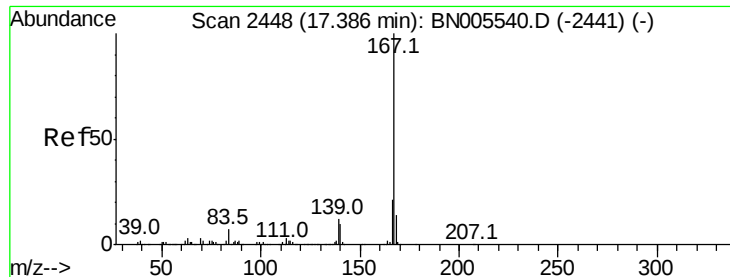


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#74

Carbazole

Concen: 3.677 ng/ul

RT: 17.39 min Scan# 2449

Delta R.T. 0.01 min

Lab File: BN005579.D

Acq: 09 May 2019 22:53

Instrument :

BNA_N

ClientSampleId :

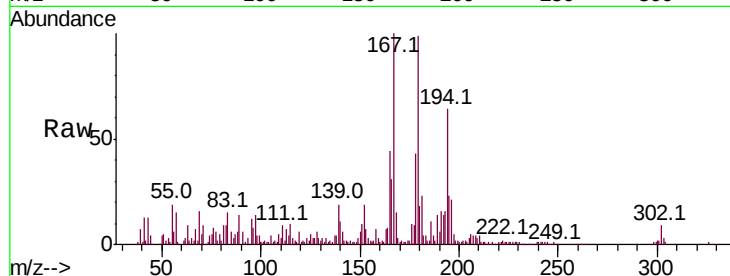
Tot Ion:167 Resp: 135855

Ion Ratio Lower Upper

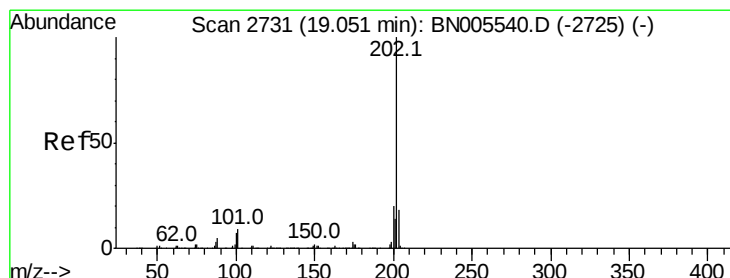
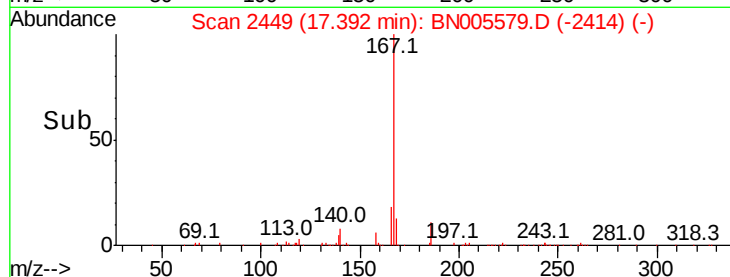
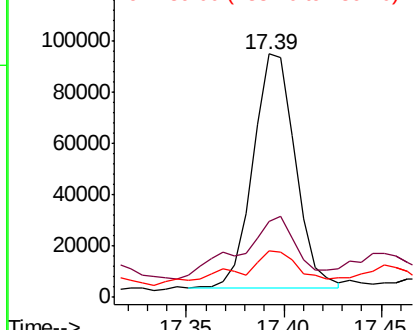
167 100

166 31.4 17.2 25.8#

139 19.1 10.6 16.0#



Abundance Ion 167.00 (166.70 to 167.70): E
Ion 166.00 (165.70 to 166.70): E
Ion 139.00 (138.70 to 139.70): E



#76

Fluoranthene

Concen: 281.594 ng/ul

RT: 19.07 min Scan# 2735

Delta R.T. 0.02 min

Lab File: BN005579.D

Acq: 09 May 2019 22:53

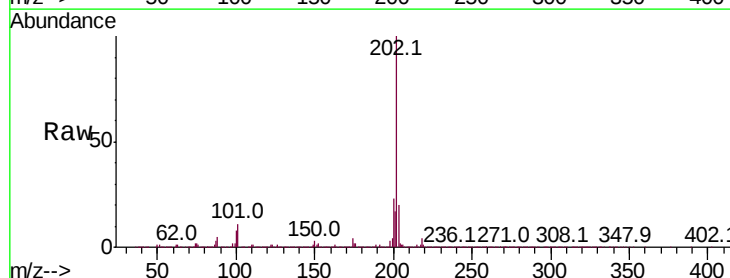
Tgt Ion:202 Resp:13185950

Ion Ratio Lower Upper

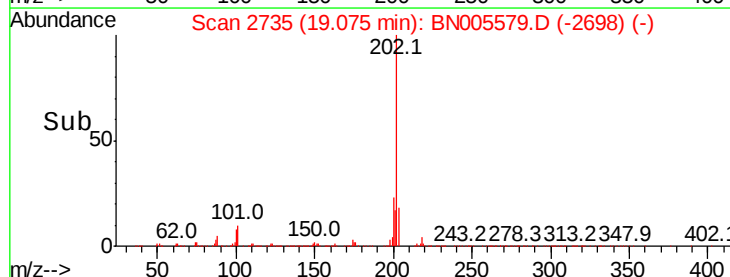
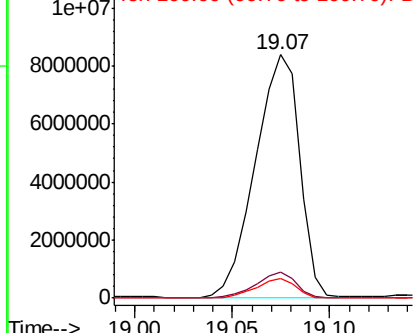
202 100

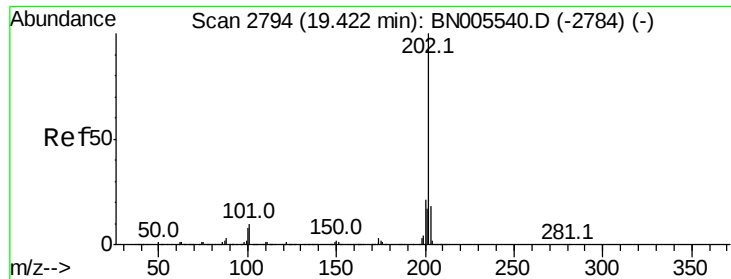
101 10.8 8.6 12.8

100 8.1 6.3 9.5



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 100.00 (99.70 to 100.70): B





#79

Pvrene

Concen: 439.270 ng/ul

RT: 19.44 min Scan# 2797

Delta R.T. 0.02 min

Lab File: BN005579.D

Acq: 09 May 2019 22:53

Instrument :

BNA_N

ClientSampleId :

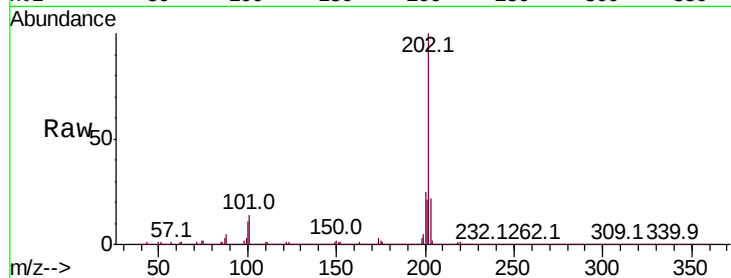
Tot Ion:202 Resp:16500259

Ion Ratio Lower Upper

202 100

101 13.7 10.3 15.5

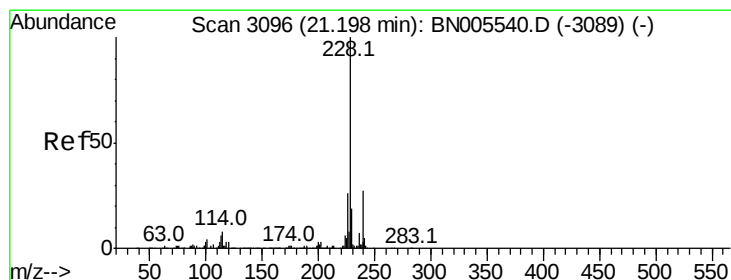
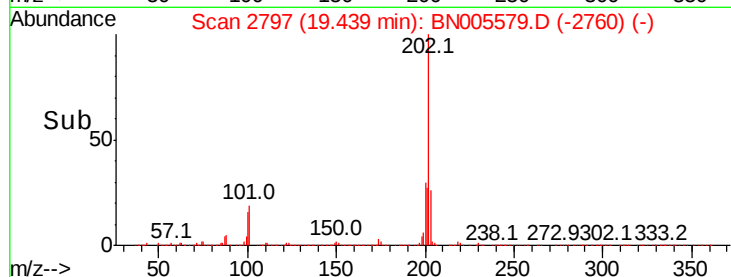
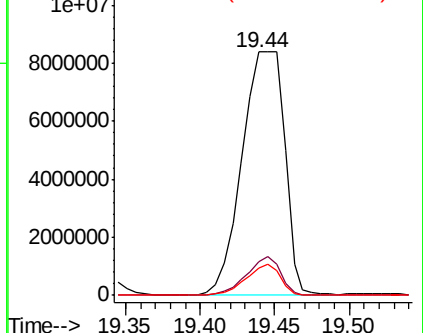
100 11.3 7.9 11.9



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B



#82

Benzo(a)anthracene

Concen: 140.733 ng/ul

RT: 21.26 min Scan# 3106

Delta R.T. 0.06 min

Lab File: BN005579.D

Acq: 09 May 2019 22:53

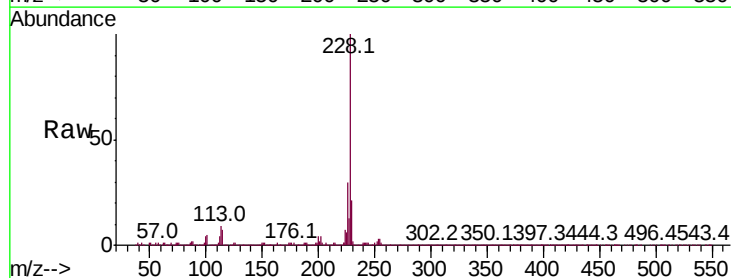
Tgt Ion:228 Resp: 5107652

Ion Ratio Lower Upper

228 100

229 21.0 15.8 23.6

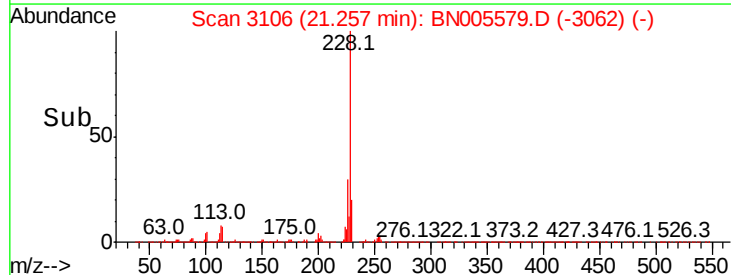
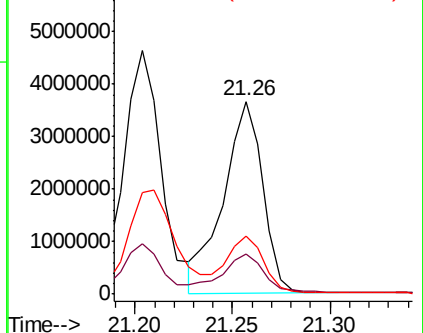
226 30.4 21.4 32.2

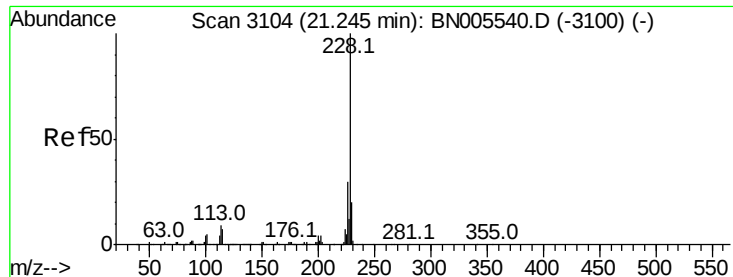


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E





#84

Chrysene

Concen: 151.666 ng/ul

RT: 21.26 min Scan# 3106

Delta R.T. 0.01 min

Lab File: BN005579.D

Acq: 09 May 2019 22:53

Instrument :

BNA_N

ClientSampleId :

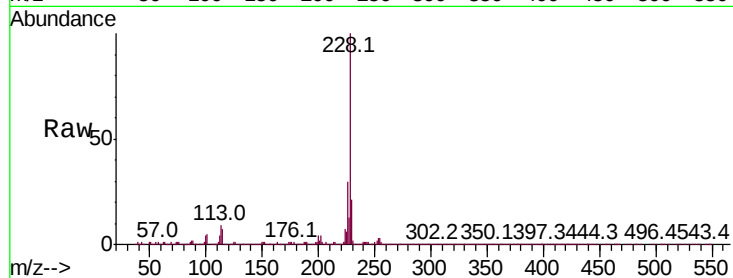
Tot Ion:228 Resp: 5108634

Ion Ratio Lower Upper

228 100

226 30.4 24.0 36.0

229 21.0 15.4 23.0

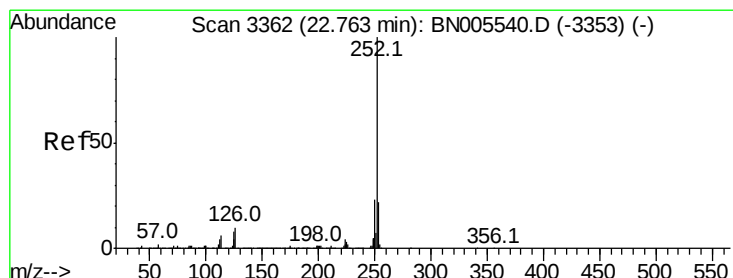
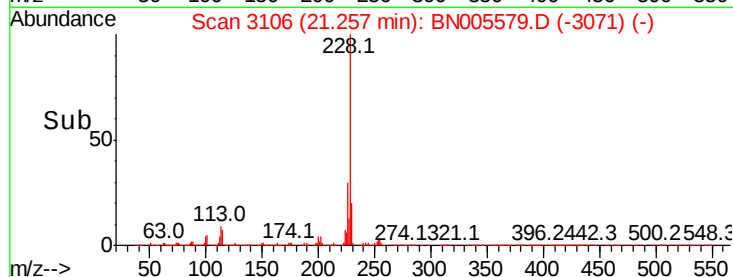
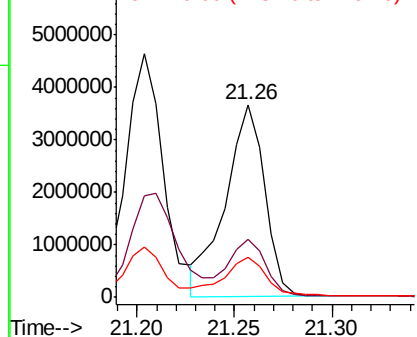


Abundance

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



#87

Benzo(b)fluoranthene

Concen: 111.618 ng/ul

RT: 22.78 min Scan# 3365

Delta R.T. 0.02 min

Lab File: BN005579.D

Acq: 09 May 2019 22:53

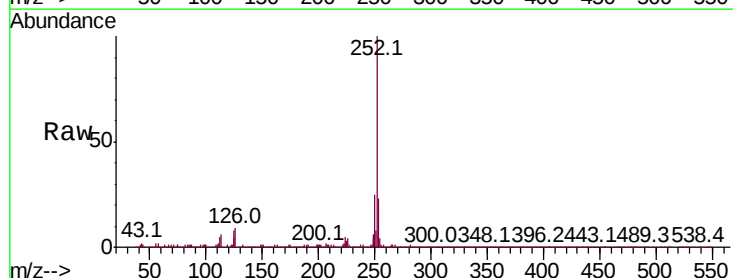
Tgt Ion:252 Resp: 4058478

Ion Ratio Lower Upper

252 100

253 22.6 17.7 26.5

125 8.3 8.4 12.6#

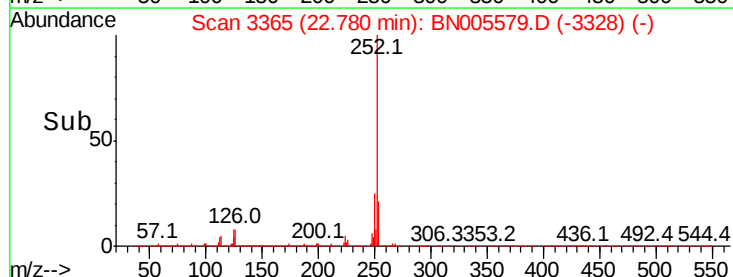
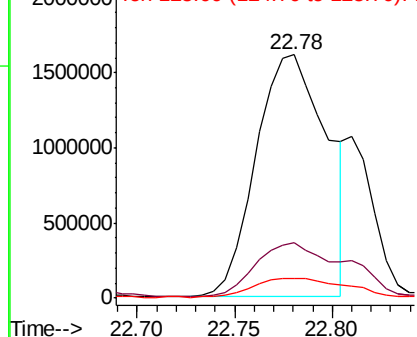


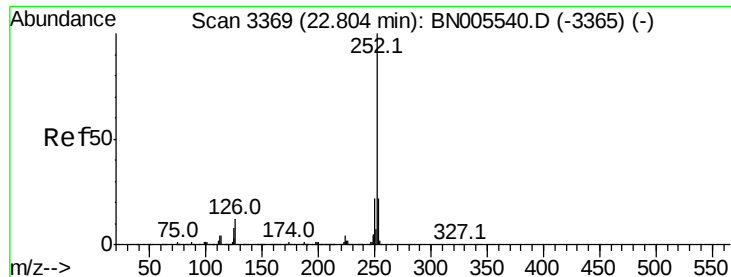
Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#88

Benzo(k)fluoranthene

Concen: 116.870 ng/ul

RT: 22.78 min Scan# 3365

Delta R.T. -0.03 min

Lab File: BN005579.D

Acq: 09 May 2019 22:53

Instrument :

BNA_N

ClientSampleId :

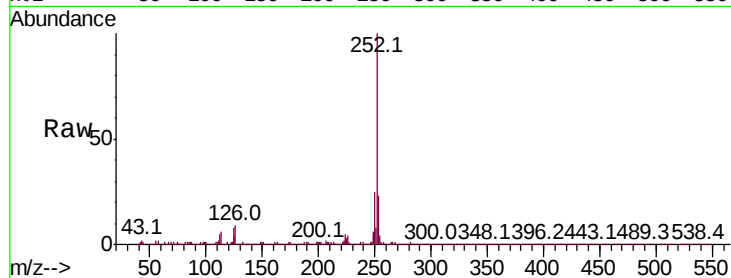
Tot Ion:252 Resp: 4058478

Ion Ratio Lower Upper

252 100

253 22.6 17.4 26.0

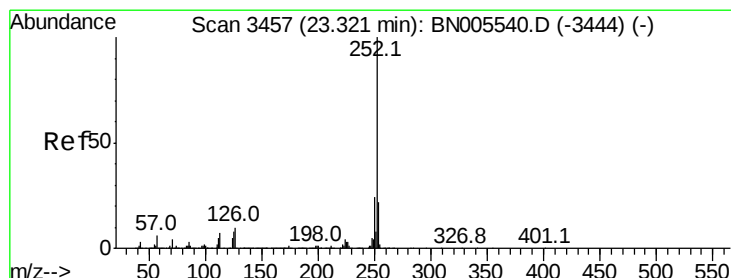
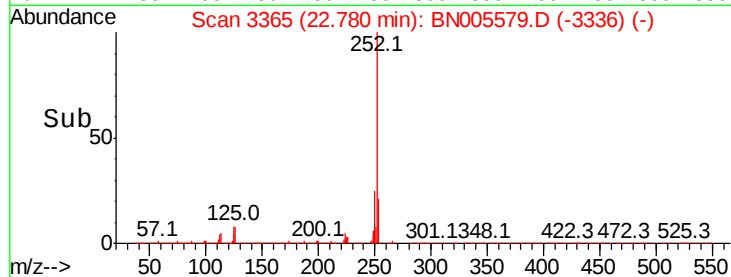
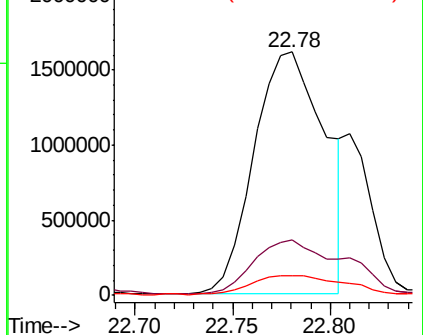
125 8.3 7.5 11.3



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



#90

Benzo(a)pyrene

Concen: 67.308 ng/ul

RT: 23.24 min Scan# 3443

Delta R.T. -0.09 min

Lab File: BN005579.D

Acq: 09 May 2019 22:53

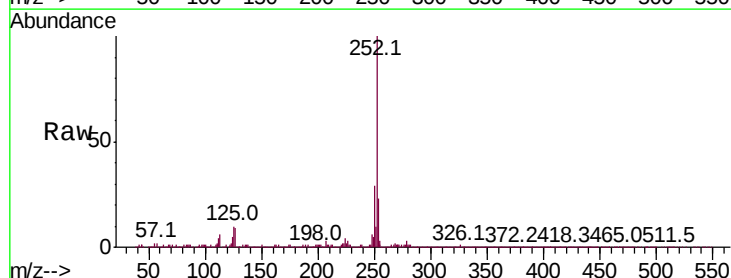
Tgt Ion:252 Resp: 2300376

Ion Ratio Lower Upper

252 100

253 22.5 17.3 25.9

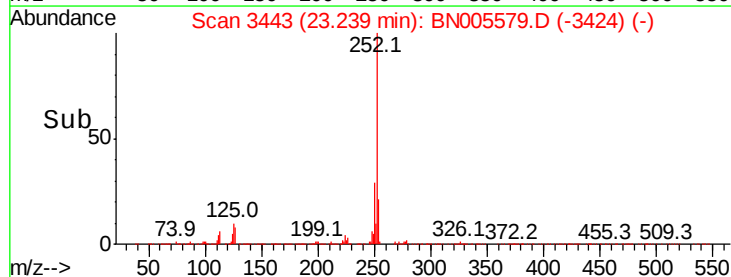
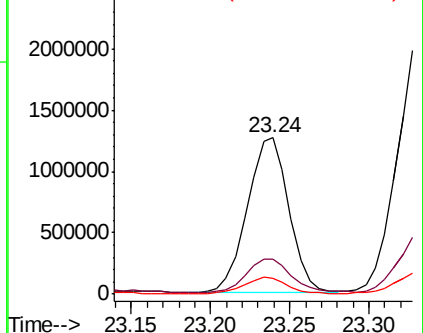
125 10.3 8.6 13.0

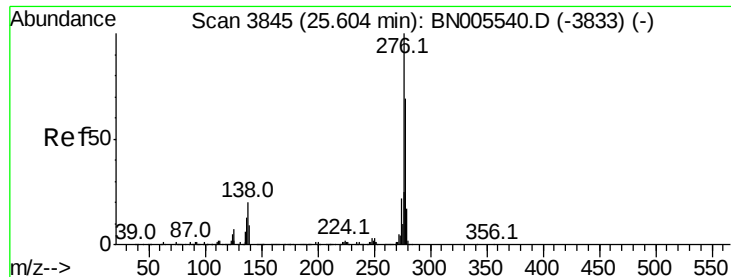


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



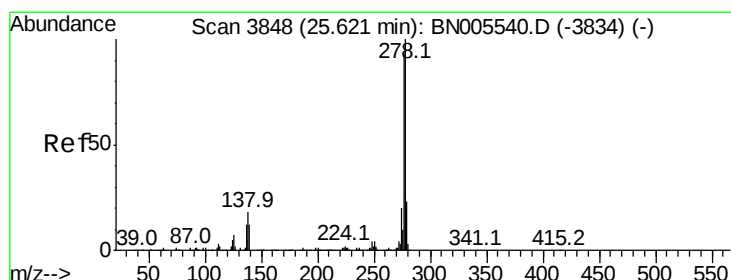
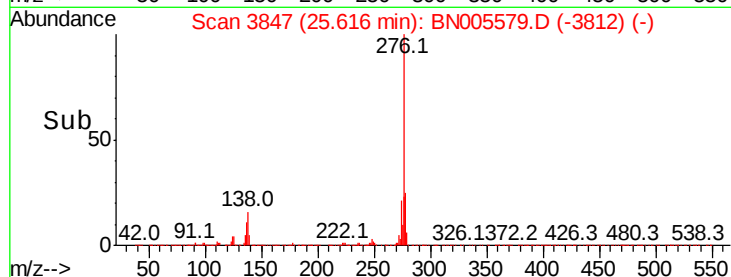
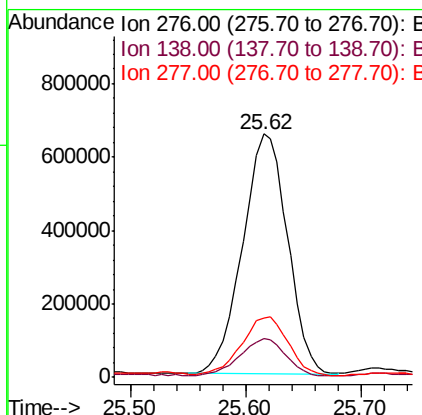
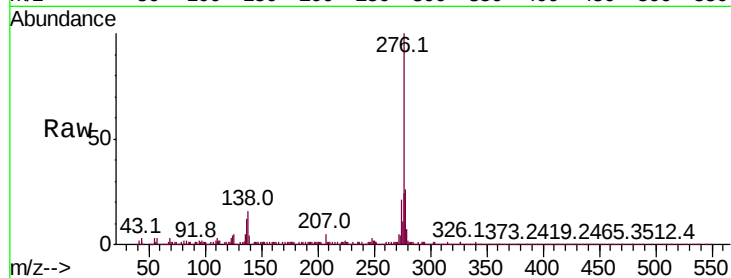


#91

Indeno(1,2,3-cd)pyrene
Concen: 46.828 ng/ul
RT: 25.62 min Scan# 3847
Delta R.T. 0.01 min
Lab File: BN005579.D
Acq: 09 May 2019 22:53

Instrument :
BNA_N
ClientSampleId :

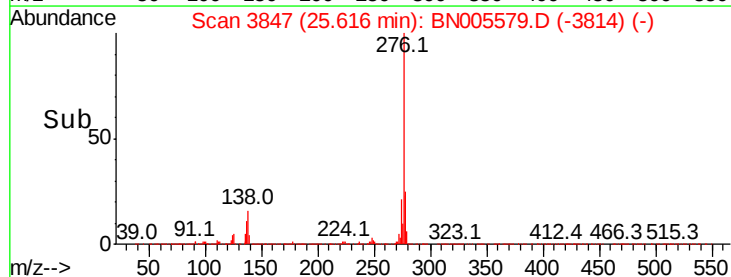
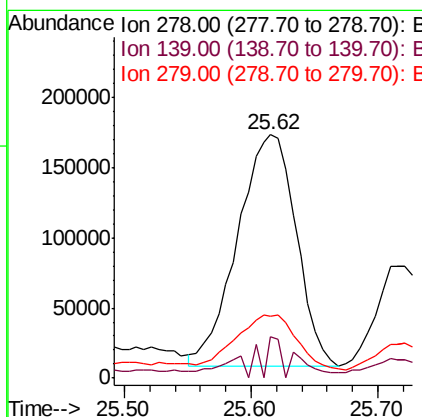
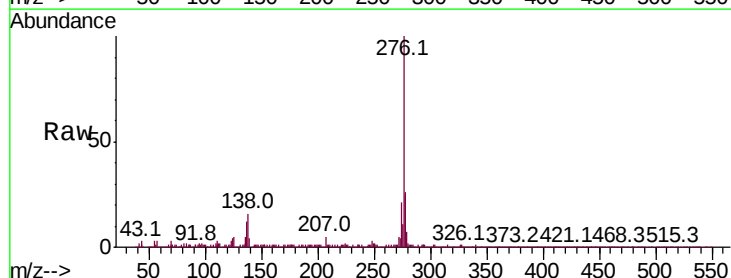
Tot Ion:276 Resp: 1769454
Ion Ratio Lower Upper
276 100
138 16.0 17.9 26.9#
277 24.3 19.7 29.5

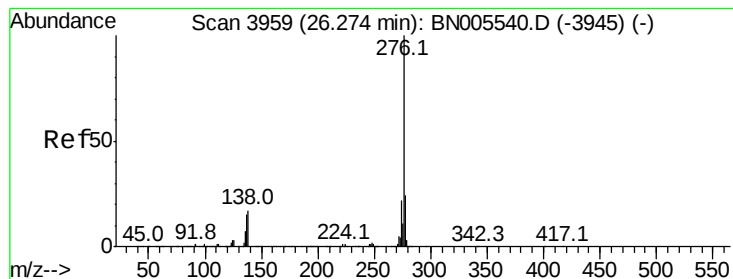


#92

Dibenzo(a,h)anthracene
Concen: 16.447 ng/ul
RT: 25.62 min Scan# 3847
Delta R.T. -0.01 min
Lab File: BN005579.D
Acq: 09 May 2019 22:53

Tgt Ion:278 Resp: 527410
Ion Ratio Lower Upper
278 100
139 16.8 13.1 19.7
279 25.5 19.4 29.0





#93

Benzo(a,h,i)perylene

Concen: 60.185 ng/ul

RT: 26.29 min Scan# 3961

Delta R.T. 0.01 min

Lab File: BN005579.D

Acq: 09 May 2019 22:53

Instrument :

BNA_N

ClientSampleId :

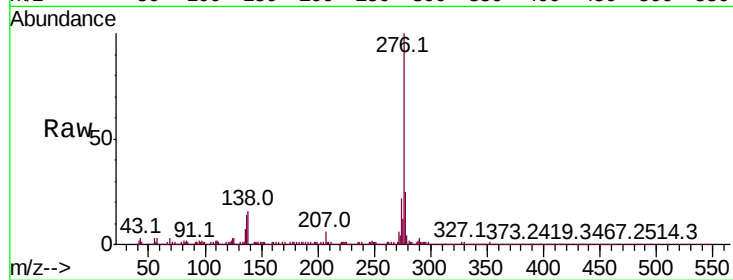
Tot Ion:276 Resp: 1880424

Ion Ratio Lower Upper

276 100

138 16.1 16.7 25.1#

277 24.6 18.2 27.2



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

