

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN050919\
 Data File : BN005577.D
 Acq On : 09 May 2019 21:44
 Operator : JU/SJ
 Sample : K2604-02 10X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :

Quant Time: May 10 01:21:23 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	345190	20.00	ng/ul	0.00
18) Naphthalene-d8	10.36	136	1487350	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.23	164	902350	20.00	ng/ul	0.00
61) Phenanthrene-d10	16.99	188	1949724	20.00	ng/ul	0.01
77) Chrysene-d12	21.22	240	1302868	20.00	ng/ul	0.00
85) Perylene-d12	23.43	264	1453456	20.00	ng/ul	0.01

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.22	96	2568	0.36	ng/uL	0.00
5) Phenol-d5	6.78	99	76208	2.81	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	6.94	67	44978	2.66	ng/ul	0.00
9) 2-Chlorophenol-d4	7.13	132	67323	3.24	ng/ul	0.00
13) 4-Methylphenol-d8	8.29	113	67603	3.19	ng/ul	0.00
19) Nitrobenzene-d5	8.73	128	38181	4.17	ng/ul	0.00
22) 2-Nitrophenol-d4	9.45	143	36342	3.92	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	9.99	165	76927	3.62	ng/ul	0.01
29) 4-Chloroaniline-d4	10.50	131	32036	1.46	ng/ul	0.01
43) Dimethylphthalate-d6	13.64	166	252950	3.86	ng/ul	0.00
46) Acenaphthylene-d8	13.92	160	320325	3.98	ng/ul	0.01
51) 4-Nitrophenol-d4	14.47	143	21251	2.05	ng/ul	0.02
57) Fluorene-d10	15.23	176	234859	4.27	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.37	200	232	0.03	ng/ul	0.00
70) Anthracene-d10	17.09	188	338735	4.14	ng/ul	0.01
78) Pyrene-d10	19.40	212	310573	4.66	ng/ul	0.01
89) Benzo(a)pyrene-d12	23.29	264	257569	4.05	ng/ul	0.01

Target Compounds

					Ovalue	
11) 2-Methylphenol	8.03	108	29437	1.409	ng/ul	96
17) Hexachloroethane	8.68	117	37631	4.040	ng/ul#	6
28) Naphthalene	10.42	128	11529830	166.750	ng/ul	99
32) Caprolactam	11.28	113	7593	1.195	ng/ul#	1
34) 2-Methylnaphthalene	12.03	142	4348403	85.889	ng/ul	99
40) 1,1'-Biphenyl	13.05	154	587388	8.737	ng/ul	98
47) Acenaphthylene	13.95	152	4701976	59.470	ng/ul	97
49) Acenaphthene	14.29	153	575537	10.663	ng/ul	98
53) Dibenzofuran	14.63	168	1297895	16.701	ng/ul	98
54) 2,4-Dinitrotoluene	14.60	165	25519	1.571	ng/ul#	57
58) Fluorene	15.29	166	3620701	59.707	ng/ul	98
64) N-Nitrosodiphenylamine	15.50	169	153695	2.880	ng/ul#	88
69) Phenanthrene	17.04	178	16922396	178.215	ng/ul	94
71) Anthracene	17.13	178	6463913	66.824	ng/ul	99
74) Carbazole	17.39	167	305310	3.674	ng/ul#	91
76) Fluoranthene	19.07	202	12630188	119.919	ng/ul	99
79) Pyrene	19.45	202	14471225	172.507	ng/ul	99
82) Benzo(a)anthracene	21.26	228	4929908	60.824	ng/ul	94
84) Chrysene	21.26	228	4980434	66.208	ng/ul	97
87) Benzo(b)fluoranthene	22.79	252	4302786	52.664	ng/ul	98
88) Benzo(k)fluoranthene	22.79	252	4302786	55.142	ng/ul	98
90) Benzo(a)pyrene	23.24	252	2119886	27.604	ng/ul	98
91) Indeno(1,2,3-cd)pyrene	25.63	276	1844328	21.722	ng/ul#	94

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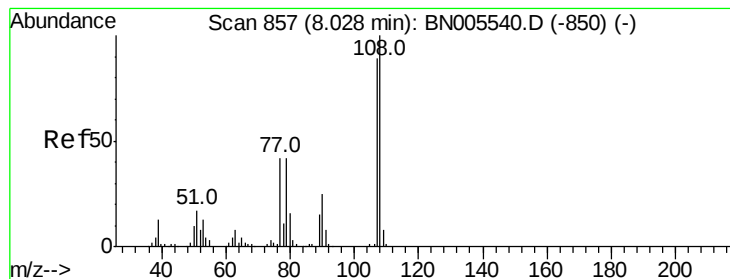
Instrument :
BNA_N
ClientSampleId :

Quant Time: May 10 01:21:23 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)
92) Dibenzo(a,h)anthracene	25.63	278	546666	7.586	ng/ul#	82
93) Benzo(g,h,i)perylene	26.30	276	1659310	23.635	ng/ul#	93

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

```
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ALS Vial  : 20    Sample Multiplier: 1
```



#11

2-Methylphenol

Concen: 1.409 ng/ul

RT: 8.03 min Scan# 858

Delta R.T. 0.01 min

Lab File: BN005577.D

Acq: 09 May 2019 21:44

Instrument :

BNA_N

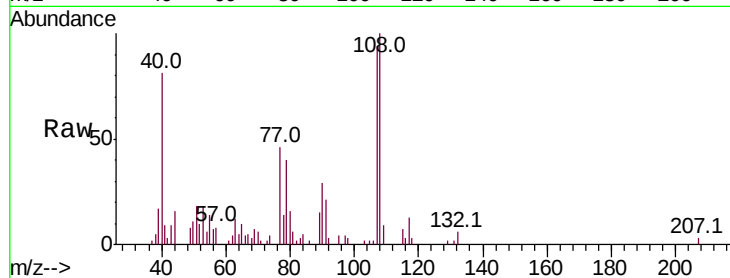
ClientSampleId :

Tot Ion:108 Resp: 29437

Ion Ratio Lower Upper

108 100

107 94.5 72.9 109.3



Abundance Ion 108.00 (107.70 to 108.70): E

Ion 107.00 (106.70 to 107.70): E

8.03

20000

15000

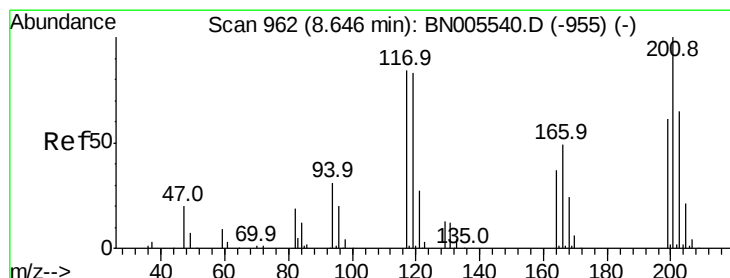
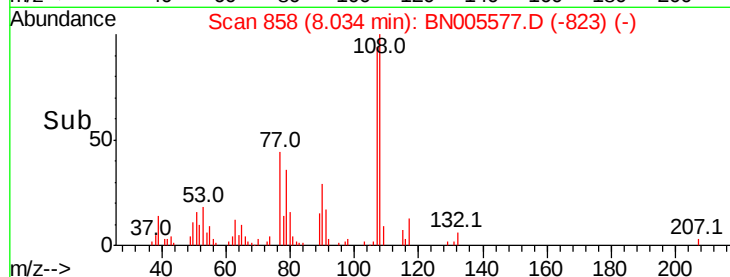
10000

5000

0

8.00 8.05 8.10

Time-->



#17

Hexachloroethane

Concen: 4.040 ng/ul

RT: 8.68 min Scan# 968

Delta R.T. 0.04 min

Lab File: BN005577.D

Acq: 09 May 2019 21:44

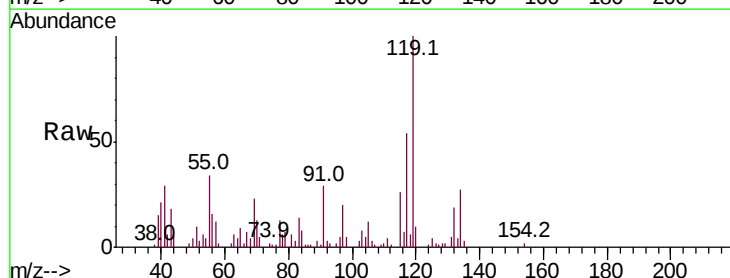
Tgt Ion:117 Resp: 37631

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

8.68

30000

25000

20000

15000

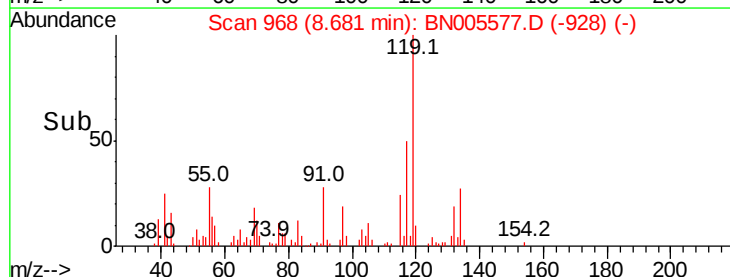
10000

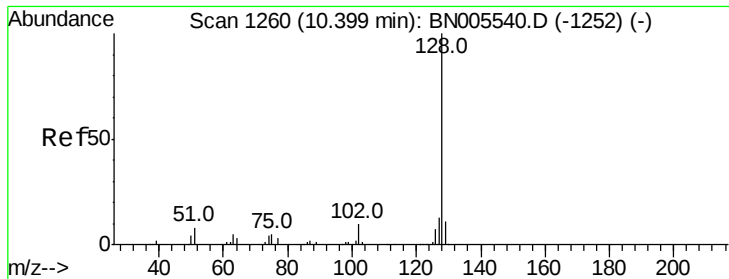
5000

0

8.65 8.70

Time-->





#28

Naphthalene

Concen: 166.750 ng/ul

RT: 10.42 min Scan# 1263

Delta R.T. 0.02 min

Lab File: BN005577.D

Acq: 09 May 2019 21:44

Instrument :

BNA_N

ClientSampleId :

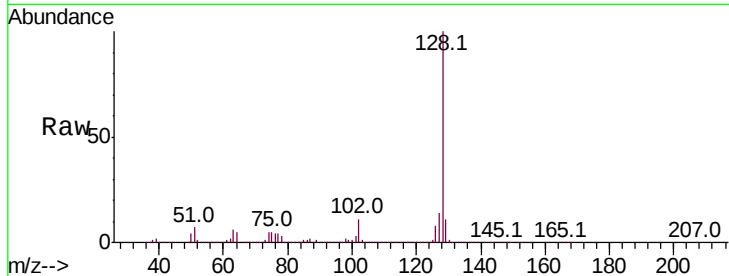
Tot Ion:128 Resp:11529830

Ion Ratio Lower Upper

128 100

129 11.5 9.2 13.8

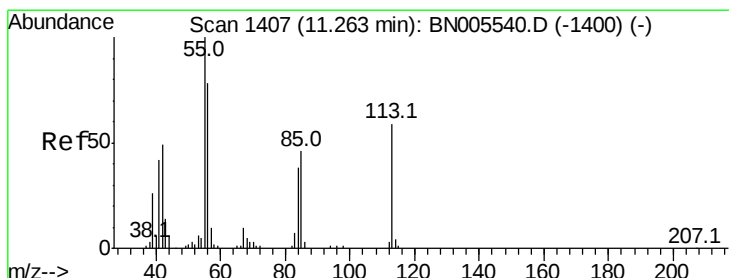
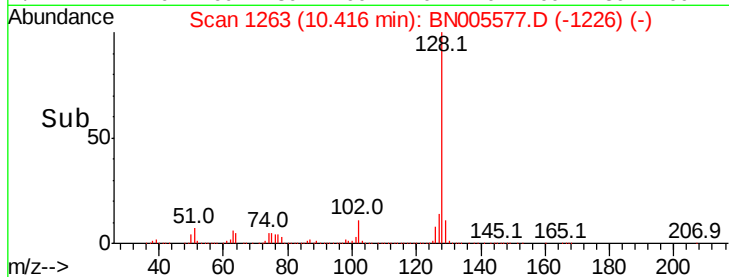
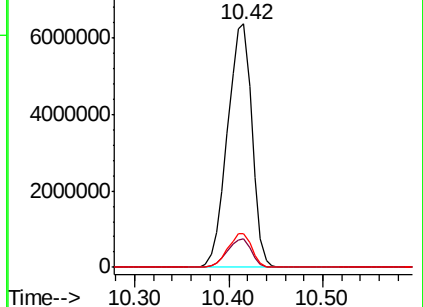
127 13.9 10.7 16.1



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#32

Caprolactam

Concen: 1.195 ng/ul

RT: 11.28 min Scan# 1410

Delta R.T. 0.01 min

Lab File: BN005577.D

Acq: 09 May 2019 21:44

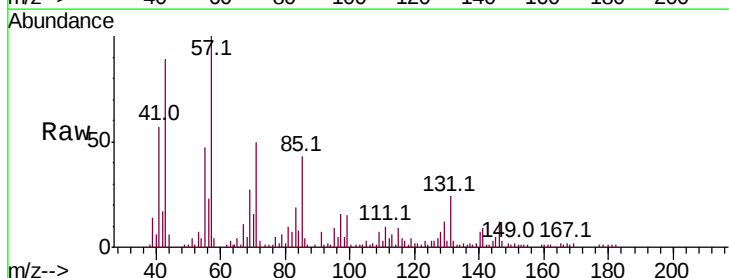
Tgt Ion:113 Resp: 7593

Ion Ratio Lower Upper

113 100

55 724.9 157.0 235.4#

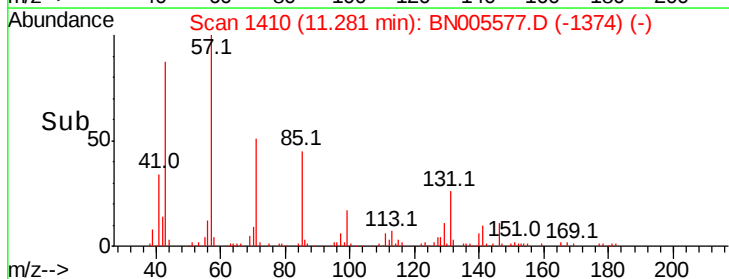
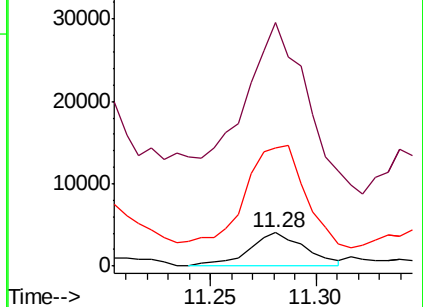
56 350.3 119.1 178.7#

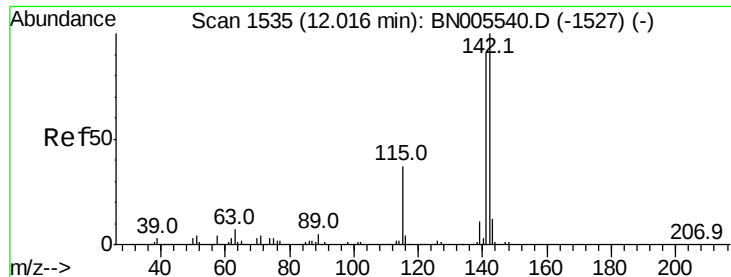


Abundance Ion 113.00 (112.70 to 113.70): E

Ion 55.00 (54.70 to 55.70): BNC

Ion 56.00 (55.70 to 56.70): BNC

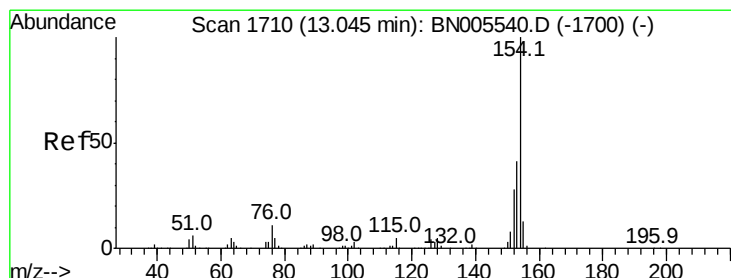
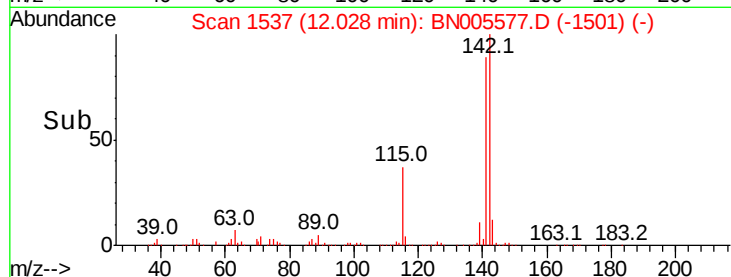
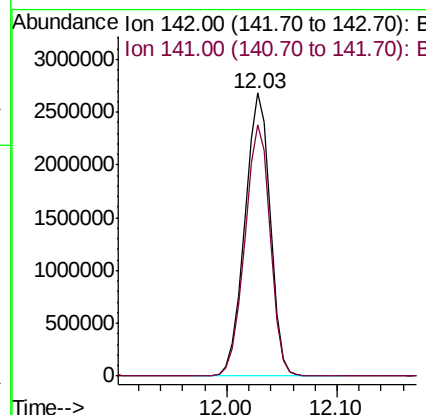
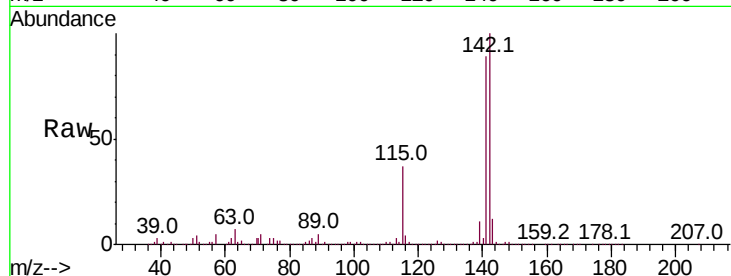




#34
 2-Methylnaphthalene
 Concen: 85.889 ng/ul
 RT: 12.03 min Scan# 1537
 Delta R.T. 0.01 min
 Lab File: BN005577.D
 Acq: 09 May 2019 21:44

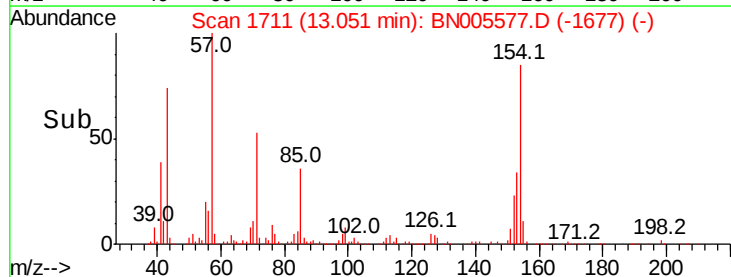
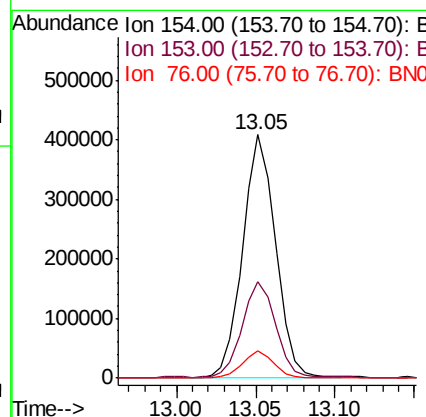
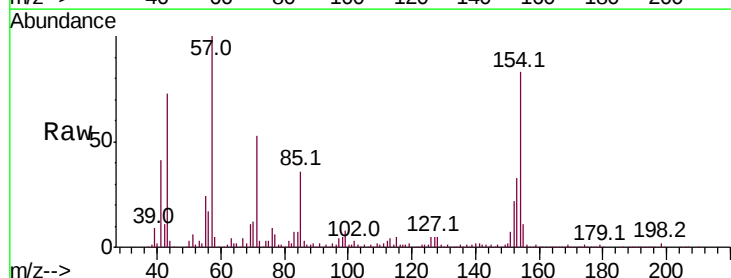
Instrument :
 BNA_N
 ClientSampleId :

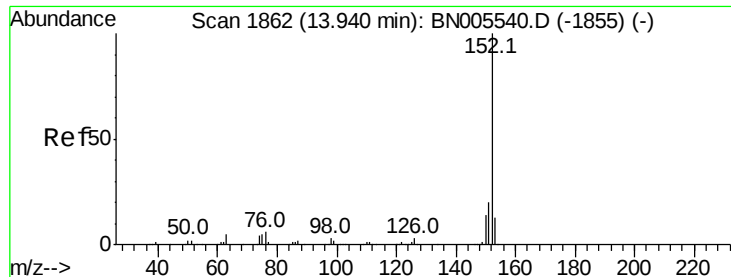
Tot Ion:142 Resp: 4348403
 Ion Ratio Lower Upper
 142 100
 141 88.9 72.0 108.0



#40
 1,1'-Biphenyl
 Concen: 8.737 ng/ul
 RT: 13.05 min Scan# 1711
 Delta R.T. 0.00 min
 Lab File: BN005577.D
 Acq: 09 May 2019 21:44

Tgt Ion:154 Resp: 587388
 Ion Ratio Lower Upper
 154 100
 153 39.8 32.6 49.0
 76 11.0 10.4 15.6





#47

Acenaphthylene

Concen: 59.470 ng/ul

RT: 13.95 min Scan# 1864

Delta R.T. 0.01 min

Lab File: BN005577.D

Acq: 09 May 2019 21:44

Instrument :

BNA_N

ClientSampleId :

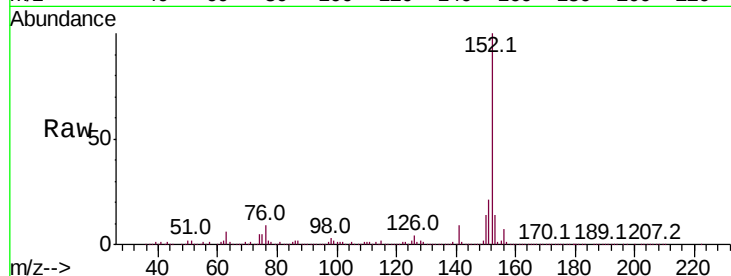
Tot Ion:152 Resp: 4701976

Ion	Ratio	Lower	Upper
152	100		
151	20.6	15.8	23.8
153	14.3	9.8	14.8

152 100

151 20.6 15.8 23.8

153 14.3 9.8 14.8

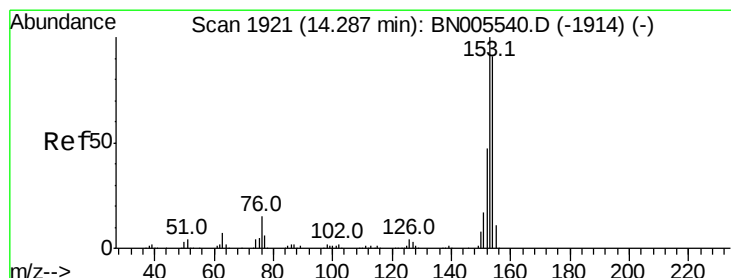
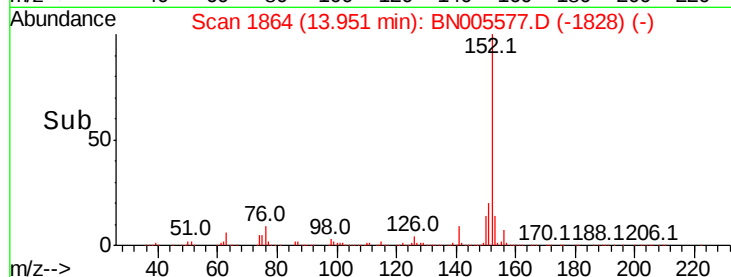
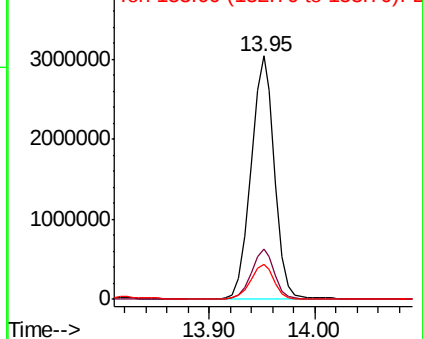


Abundance

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: 10.663 ng/ul

RT: 14.29 min Scan# 1922

Delta R.T. 0.01 min

Lab File: BN005577.D

Acq: 09 May 2019 21:44

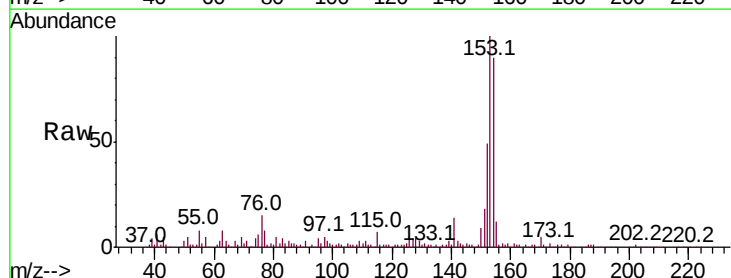
Tgt Ion:153 Resp: 575537

Ion	Ratio	Lower	Upper
153	100		
152	49.0	37.4	56.0
154	89.9	71.2	106.8

153 100

152 49.0 37.4 56.0

154 89.9 71.2 106.8

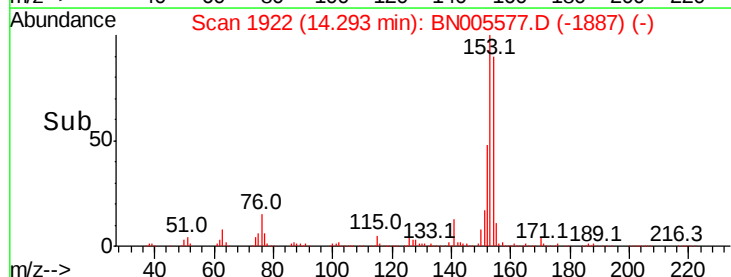
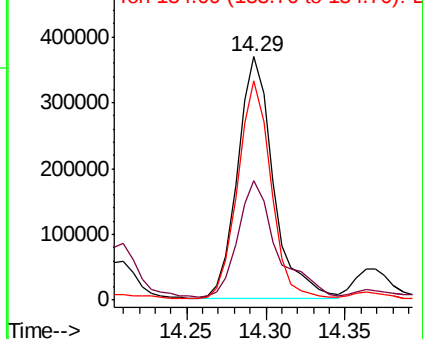


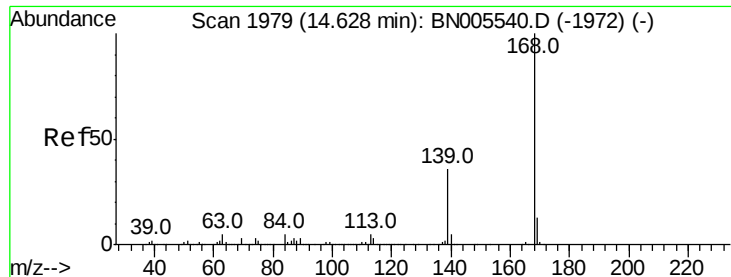
Abundance

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: 16.701 ng/ul

RT: 14.63 min Scan# 1980

Delta R.T. 0.01 min

Lab File: BN005577.D

Acq: 09 May 2019 21:44

Instrument :

BNA_N

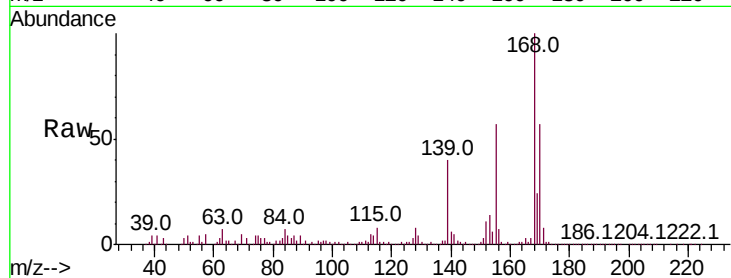
ClientSampled :

Tot Ion:168 Resp: 1297895

Ion Ratio Lower Upper

168 100

139 40.1 30.9 46.3



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

14.63

800000

600000

400000

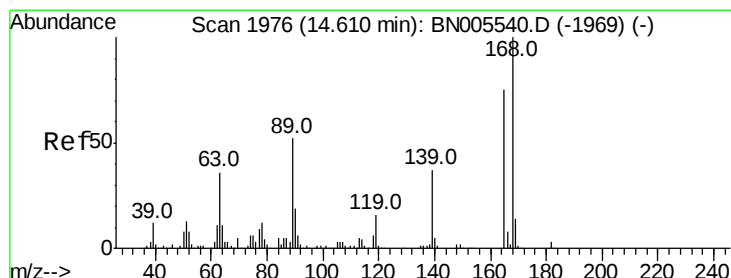
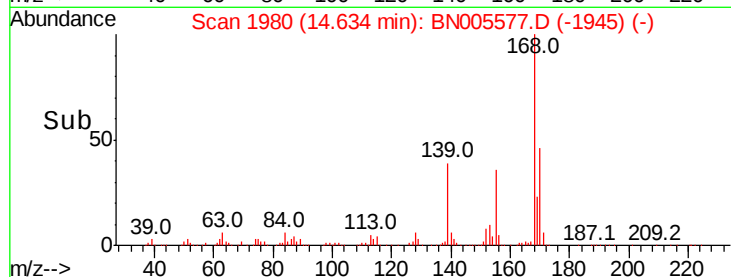
200000

0

14.60

14.70

Time-->



#54

2,4-Dinitrotoluene

Concen: 1.571 ng/ul

RT: 14.60 min Scan# 1974

Delta R.T. -0.01 min

Lab File: BN005577.D

Acq: 09 May 2019 21:44

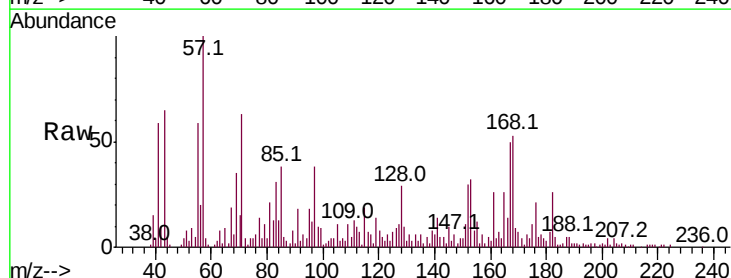
Tgt Ion:165 Resp: 25519

Ion Ratio Lower Upper

165 100

63 30.2 38.9 58.3#

182 98.1 2.6 3.8#



Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BN0

Ion 182.00 (181.70 to 182.70): E

80000

60000

40000

20000

0

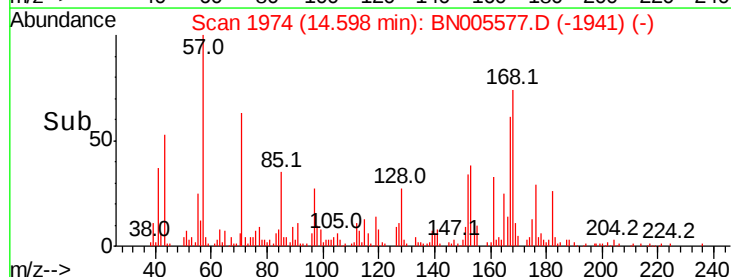
14.56

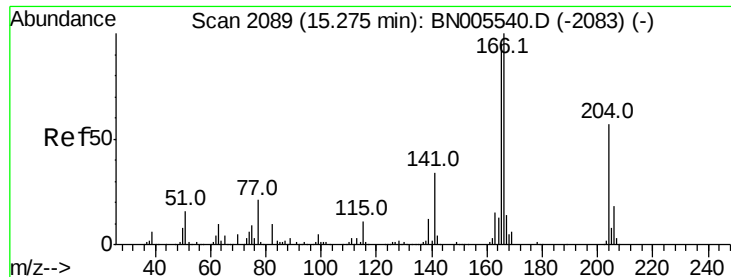
14.58

14.60

14.62

Time-->





#58

Fluorene

Concen: 59.707 ng/ul

RT: 15.29 min Scan# 2091

Delta R.T. 0.01 min

Lab File: BN005577.D

Acq: 09 May 2019 21:44

Instrument :

BNA_N

ClientSampled :

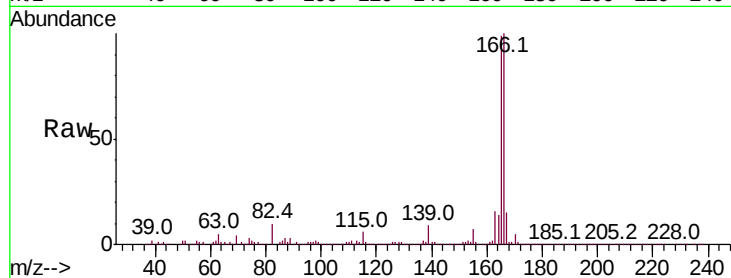
Tot Ion:166 Resp: 3620701

Ion Ratio Lower Upper

166 100

165 98.6 80.0 120.0

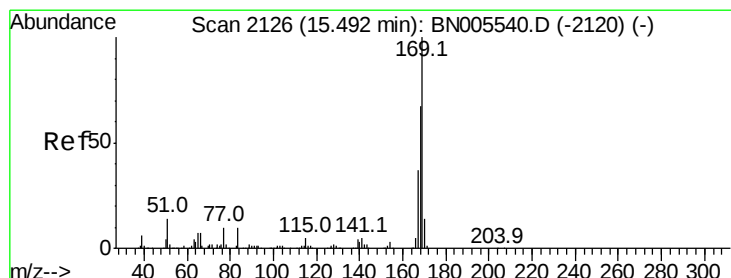
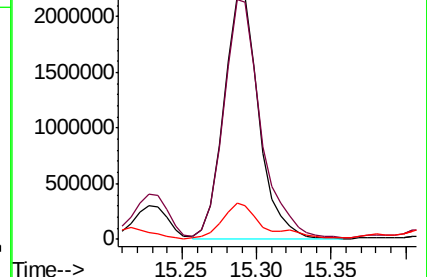
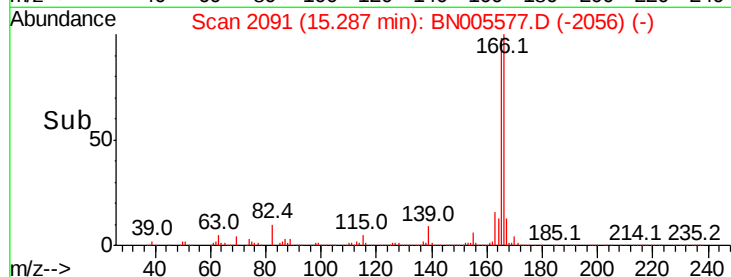
167 14.7 10.7 16.1



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



#64

N-Nitrosodiphenylamine

Concen: 2.880 ng/ul

RT: 15.50 min Scan# 2128

Delta R.T. 0.01 min

Lab File: BN005577.D

Acq: 09 May 2019 21:44

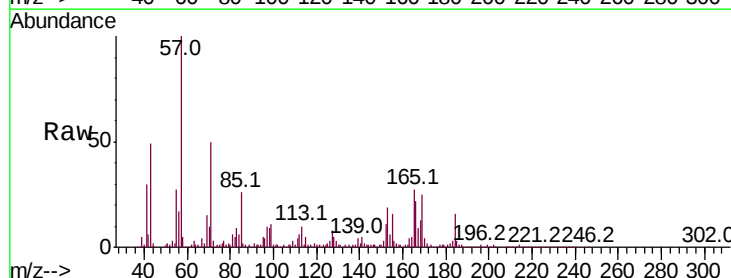
Tgt Ion:169 Resp: 153695

Ion Ratio Lower Upper

169 100

168 51.6 52.2 78.2#

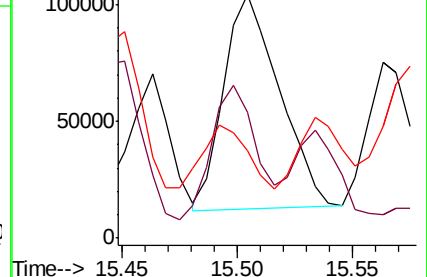
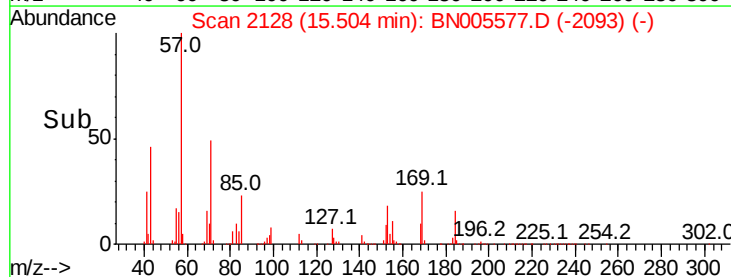
167 35.9 27.7 41.5

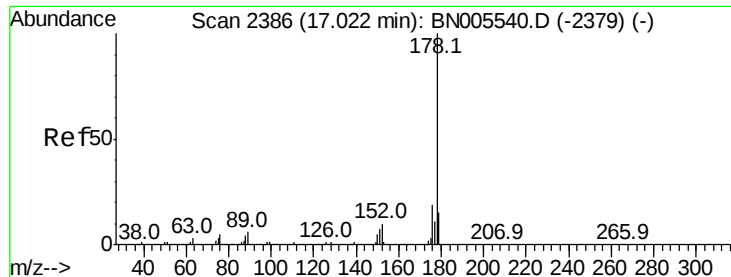


Abundance Ion 169.00 (168.70 to 169.70): E

Ion 168.00 (167.70 to 168.70): E

Ion 167.00 (166.70 to 167.70): E





#69

Phenanthrene

Concen: 178.215 ng/ul

RT: 17.04 min Scan# 2389

Delta R.T. 0.02 min

Lab File: BN005577.D

Acq: 09 May 2019 21:44

Instrument :

BNA_N

ClientSampleId :

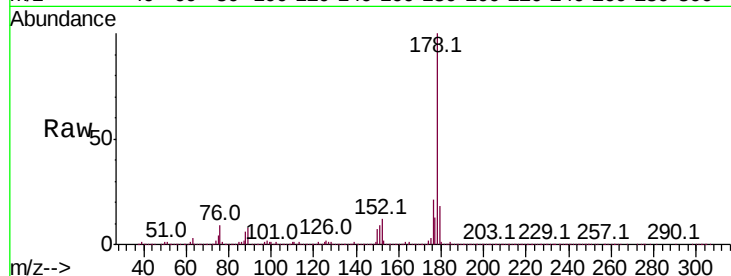
Tot Ion:178 Resp:16922396

Ion Ratio Lower Upper

178 100

179 17.9 12.2 18.4

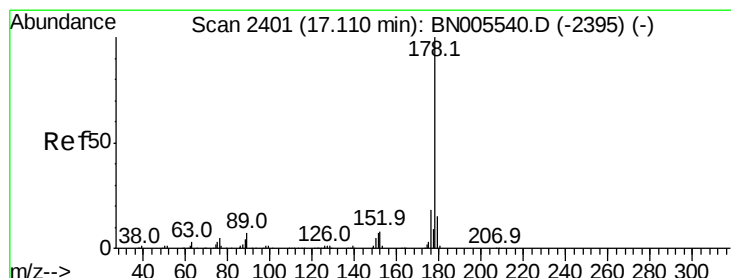
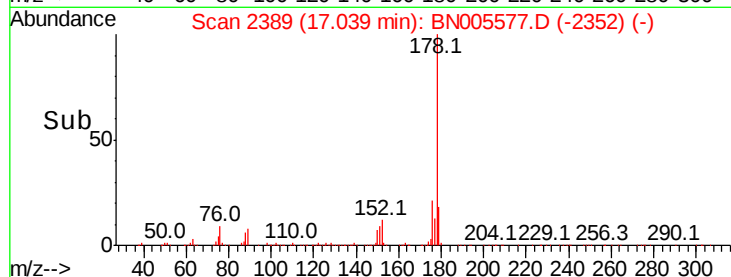
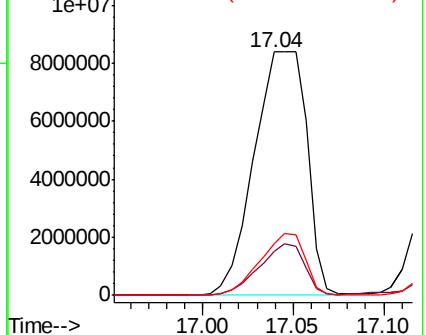
176 21.2 15.1 22.7



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: 66.824 ng/ul

RT: 17.13 min Scan# 2404

Delta R.T. 0.02 min

Lab File: BN005577.D

Acq: 09 May 2019 21:44

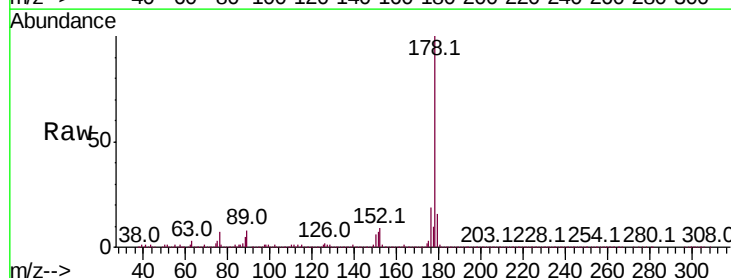
Tgt Ion:178 Resp: 6463913

Ion Ratio Lower Upper

178 100

179 16.0 12.3 18.5

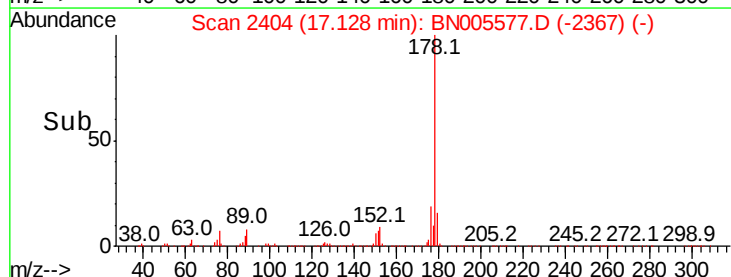
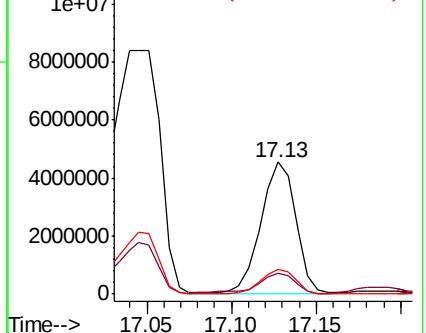
176 18.9 15.1 22.7

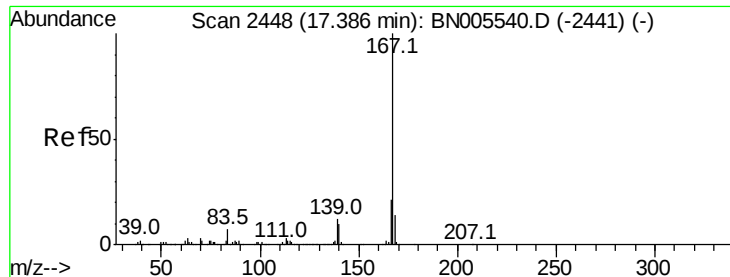


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#74

Carbazole

Concen: 3.674 ng/ul

RT: 17.39 min Scan# 2449

Delta R.T. 0.01 min

Lab File: BN005577.D

Acq: 09 May 2019 21:44

Instrument :

BNA_N

ClientSampleId :

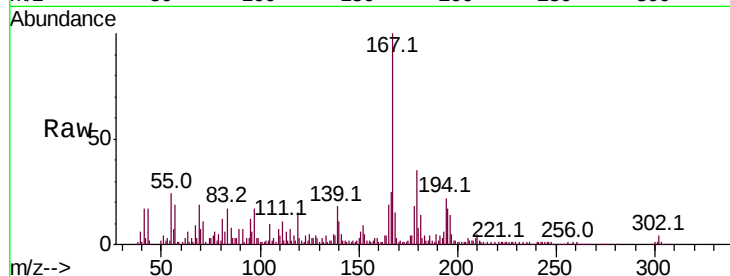
Tot Ion:167 Resp: 305310

Ion Ratio Lower Upper

167 100

166 24.9 17.2 25.8

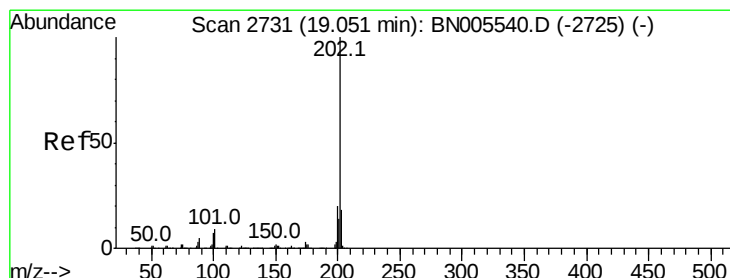
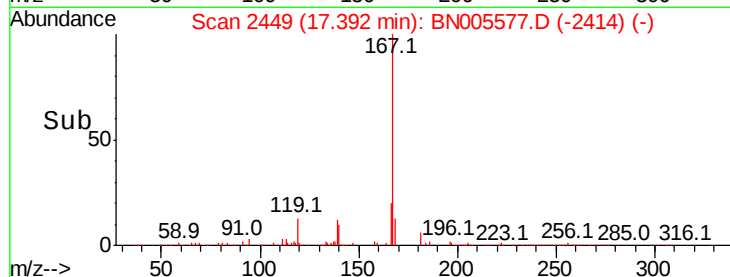
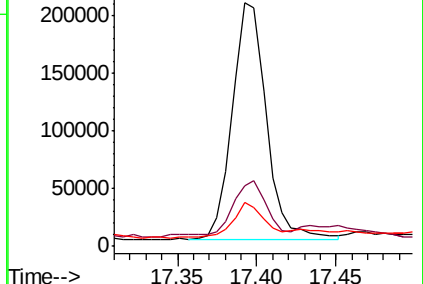
139 18.1 10.6 16.0#



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: 119.919 ng/ul

RT: 19.07 min Scan# 2735

Delta R.T. 0.02 min

Lab File: BN005577.D

Acq: 09 May 2019 21:44

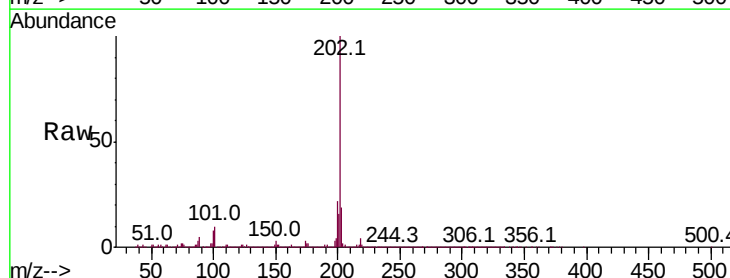
Tgt Ion:202 Resp:12630188

Ion Ratio Lower Upper

202 100

101 10.1 8.6 12.8

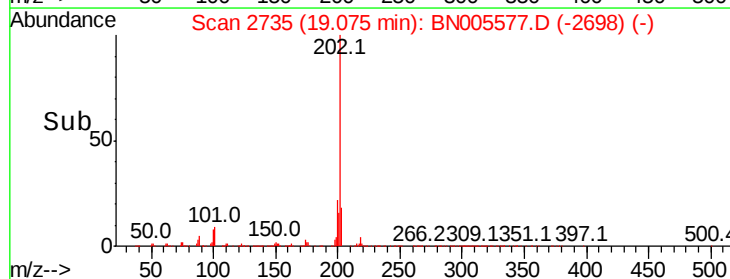
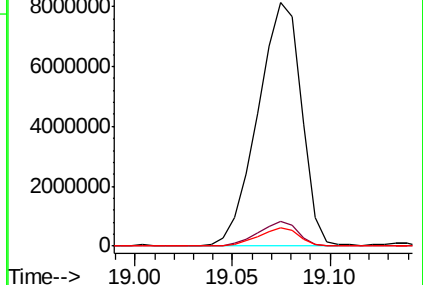
100 7.8 6.3 9.5

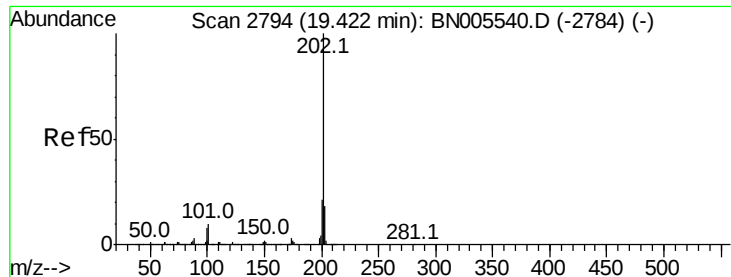


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): E





#79

Pvrene

Concen: 172.507 ng/ul

RT: 19.45 min Scan# 2798

Delta R.T. 0.02 min

Lab File: BN005577.D

Acq: 09 May 2019 21:44

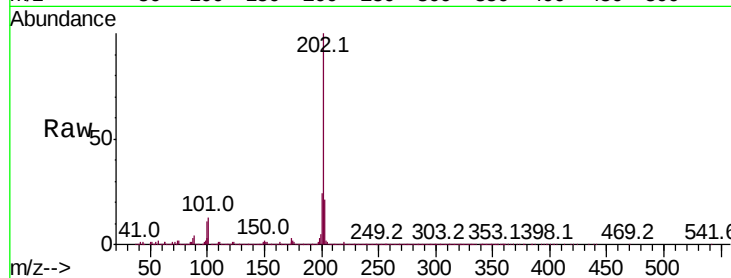
Instrument :

BNA_N

ClientSampleId :

Tot Ion:202 Resp:14471225

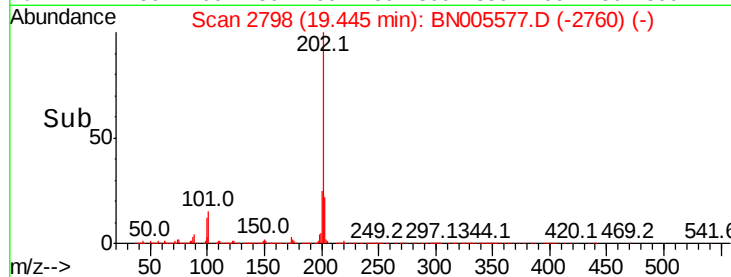
Ion	Ratio	Lower	Upper
202	100		
101	12.9	10.3	15.5
100	10.5	7.9	11.9



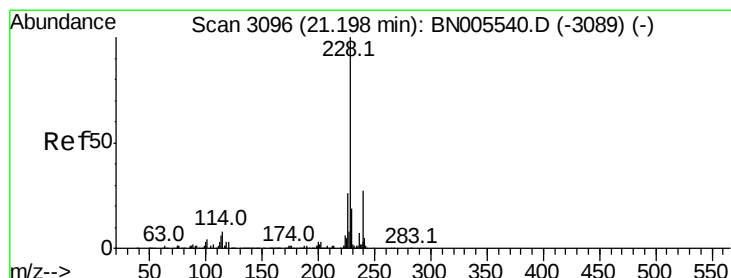
Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): E



Time--> 19.35 19.40 19.45 19.50



#82

Benzo(a)anthracene

Concen: 60.824 ng/ul

RT: 21.26 min Scan# 3107

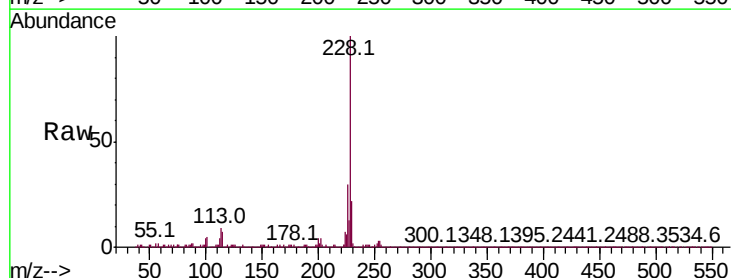
Delta R.T. 0.06 min

Lab File: BN005577.D

Acq: 09 May 2019 21:44

Tgt Ion:228 Resp: 4929908

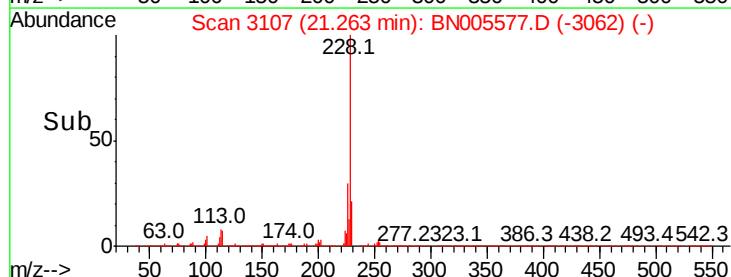
Ion	Ratio	Lower	Upper
228	100		
229	22.1	15.8	23.6
226	30.4	21.4	32.2



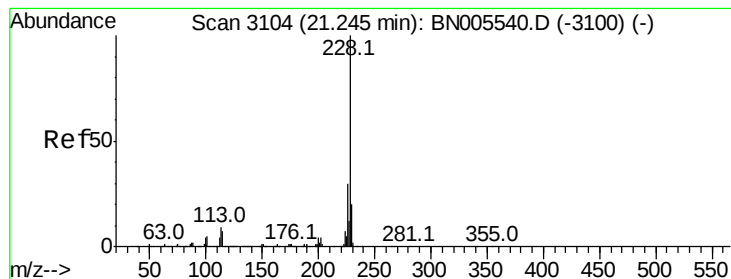
Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E



Time--> 21.20 21.25 21.30 21.35



#84

Chrysene

Concen: 66.208 ng/ul

RT: 21.26 min Scan# 3107

Delta R.T. 0.01 min

Lab File: BN005577.D

Acq: 09 May 2019 21:44

Instrument :

BNA_N

ClientSampled :

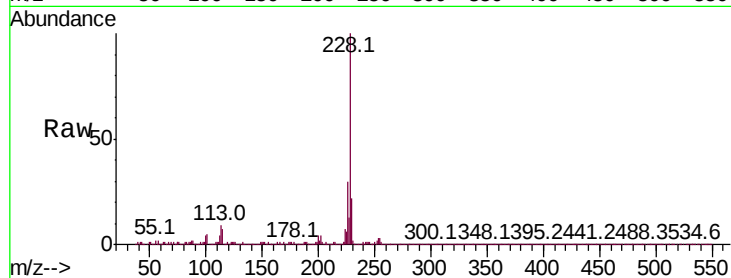
Tot Ion:228 Resp: 4980434

Ion Ratio Lower Upper

228 100

226 30.4 24.0 36.0

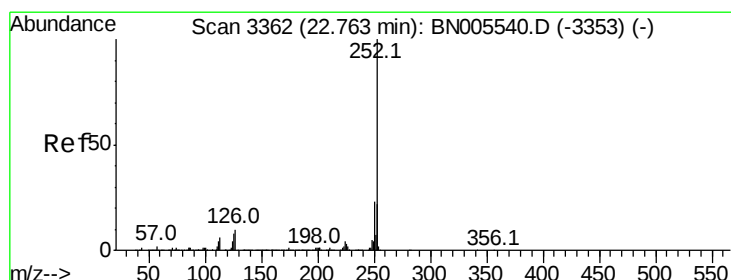
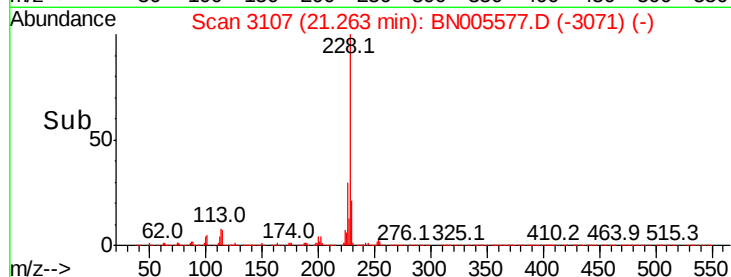
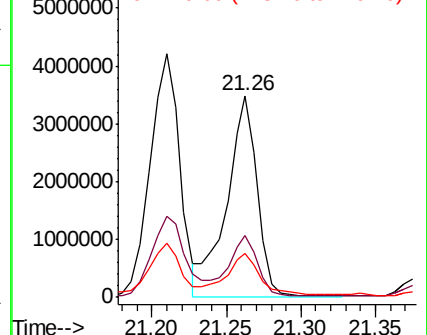
229 22.1 15.4 23.0



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: 52.664 ng/ul

RT: 22.79 min Scan# 3366

Delta R.T. 0.02 min

Lab File: BN005577.D

Acq: 09 May 2019 21:44

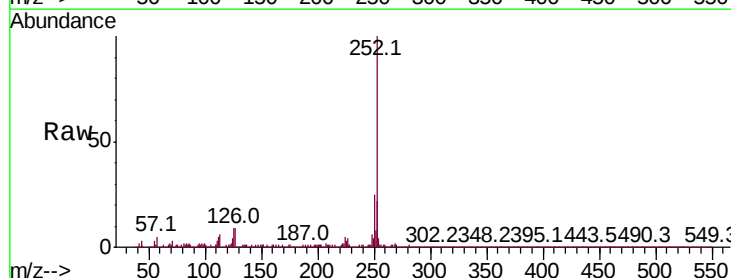
Tgt Ion:252 Resp: 4302786

Ion Ratio Lower Upper

252 100

253 22.4 17.7 26.5

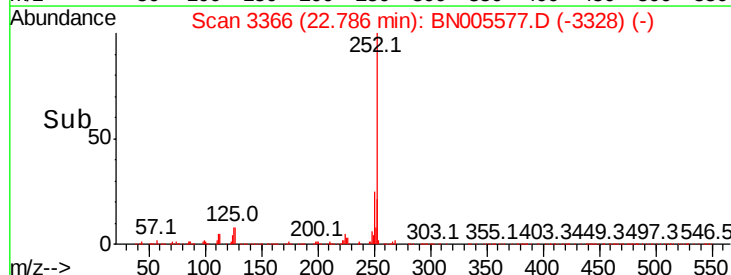
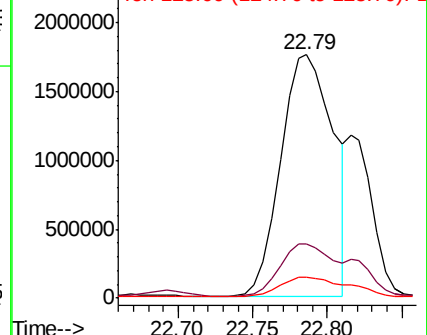
125 8.6 8.4 12.6

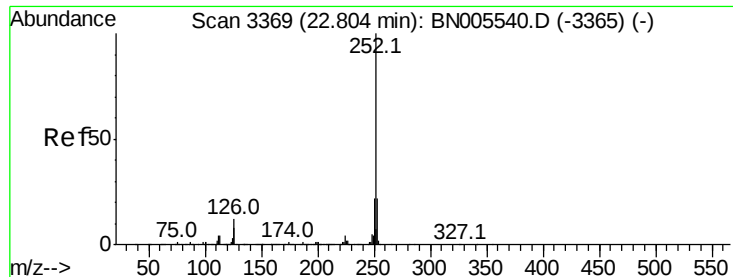


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#88

Benzo(k)fluoranthene

Concen: 55.142 ng/ul

RT: 22.79 min Scan# 3366

Delta R.T. -0.02 min

Lab File: BN005577.D

Acq: 09 May 2019 21:44

Instrument :

BNA_N

ClientSampleId :

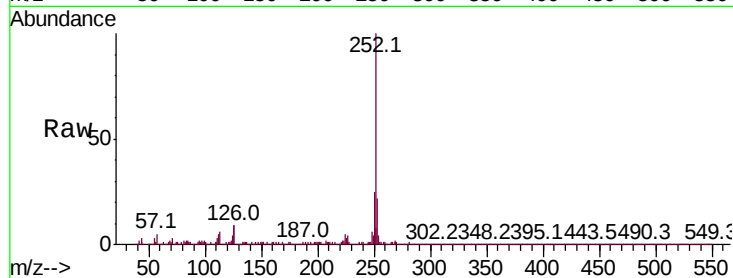
Tot Ion:252 Resp: 4302786

Ion Ratio Lower Upper

252 100

253 22.4 17.4 26.0

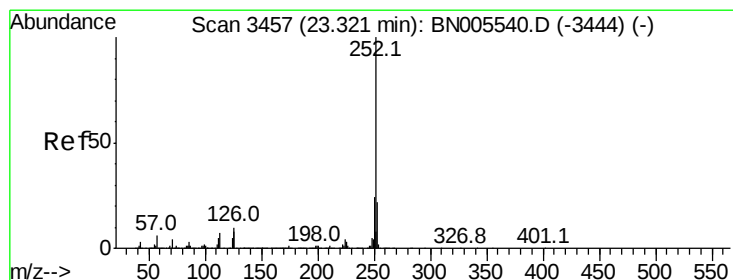
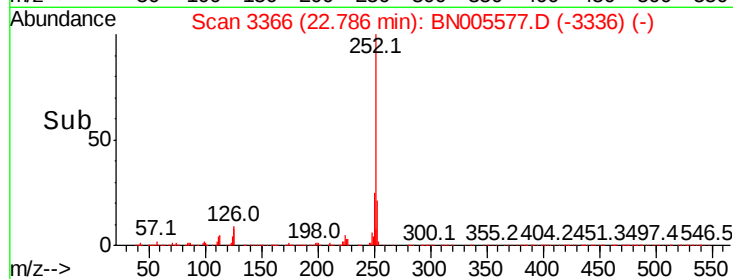
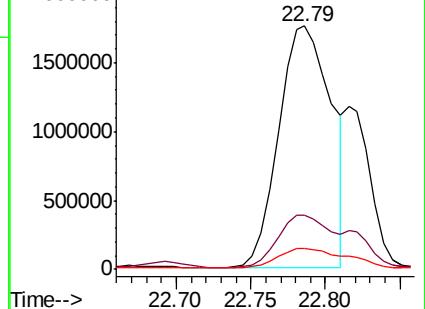
125 8.6 7.5 11.3



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: 27.604 ng/ul

RT: 23.24 min Scan# 3444

Delta R.T. -0.08 min

Lab File: BN005577.D

Acq: 09 May 2019 21:44

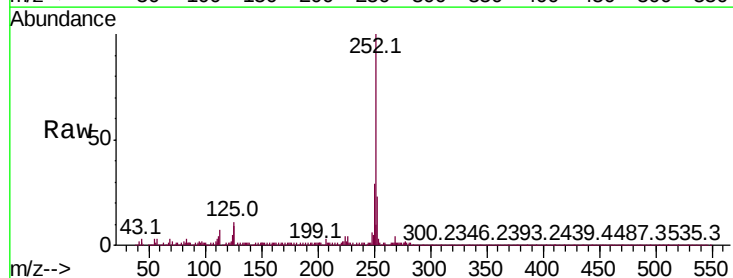
Tgt Ion:252 Resp: 2119886

Ion Ratio Lower Upper

252 100

253 22.8 17.3 25.9

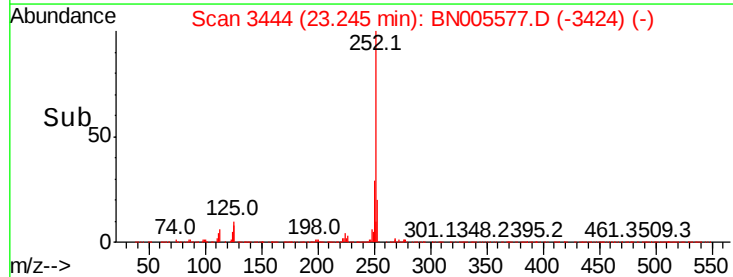
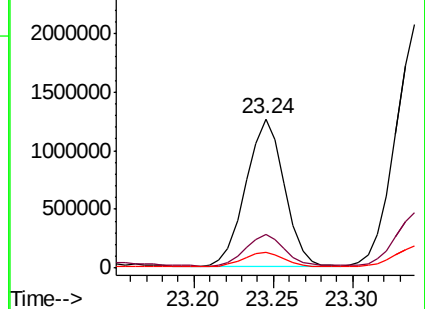
125 10.6 8.6 13.0

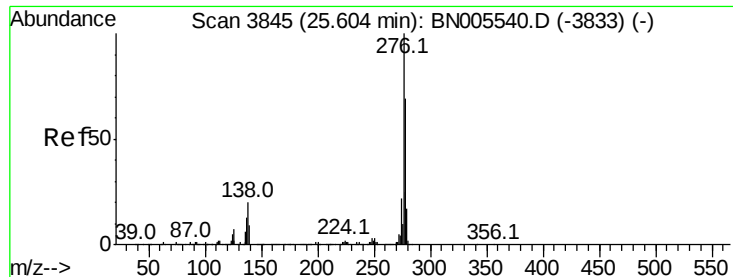


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



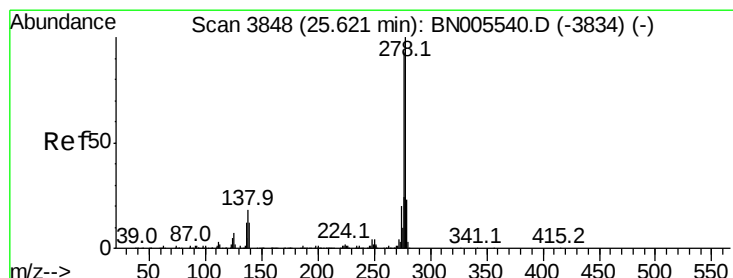
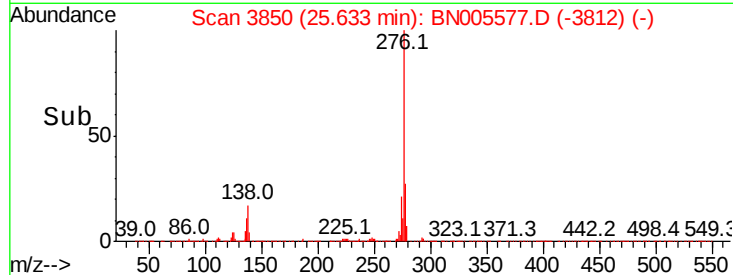
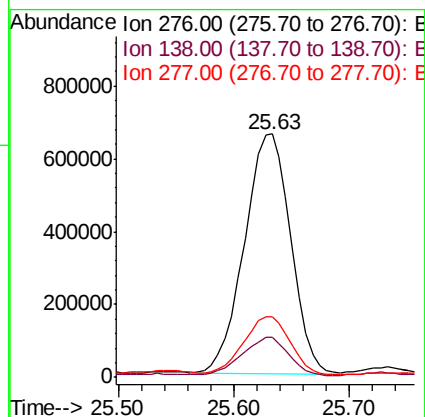
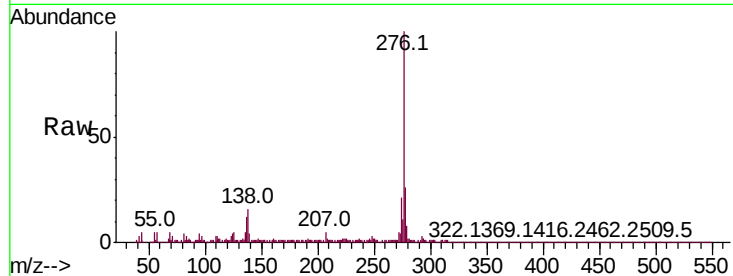


#91

Indeno(1,2,3-cd)pyrene
Concen: 21.722 ng/ul
RT: 25.63 min Scan# 3850
Delta R.T. 0.02 min
Lab File: BN005577.D
Acq: 09 May 2019 21:44

Instrument :
BNA_N
ClientSampleId :

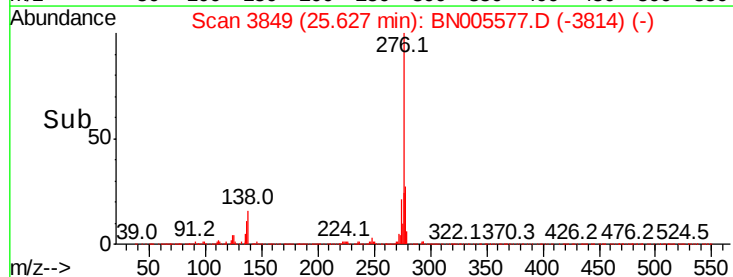
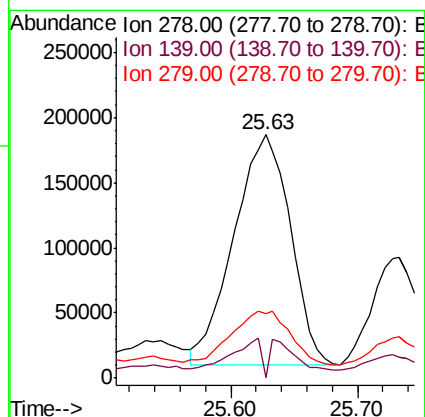
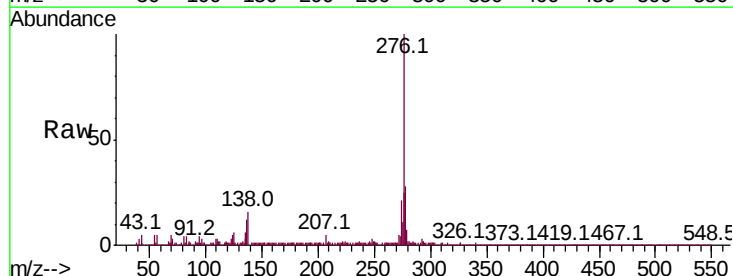
Tot Ion:276 Resp: 1844328
Ion Ratio Lower Upper
276 100
138 16.5 17.9 26.9#
277 24.8 19.7 29.5

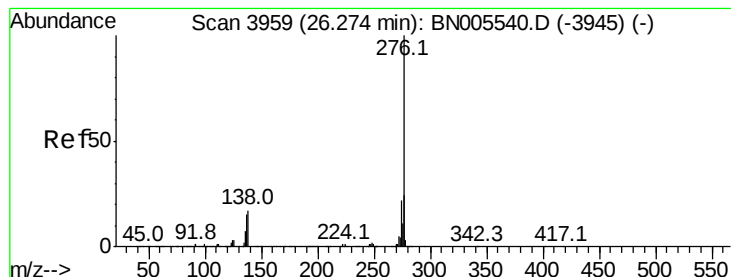


#92

Dibenzo(a,h)anthracene
Concen: 7.586 ng/ul
RT: 25.63 min Scan# 3849
Delta R.T. 0.01 min
Lab File: BN005577.D
Acq: 09 May 2019 21:44

Tgt Ion:278 Resp: 546666
Ion Ratio Lower Upper
278 100
139 0.0 13.1 19.7#
279 26.5 19.4 29.0





#93

Benzo(a,h,i)perylene

Concen: 23.635 ng/ul

RT: 26.30 min Scan# 3964

Delta R.T. 0.03 min

Lab File: BN005577.D

Acq: 09 May 2019 21:44

Instrument :

BNA_N

ClientSampleId :

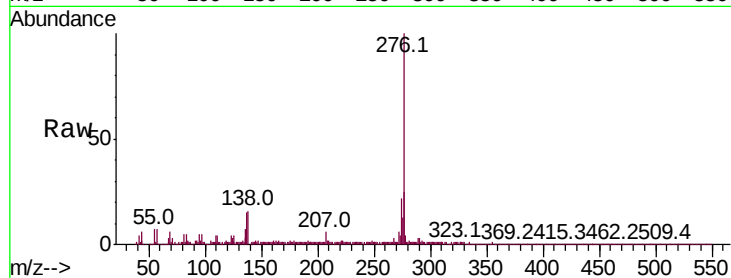
Tot Ion:276 Resp: 1659310

Ion Ratio Lower Upper

276 100

138 16.0 16.7 25.1#

277 25.0 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

