

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN050819\
 Data File : BN005550.D
 Acq On : 09 May 2019 01:46
 Operator : JU/SJ
 Sample : K2604-21 10X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :

Quant Time: May 09 02:35:15 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	308004	20.00	ng/ul	0.00
18) Naphthalene-d8	10.35	136	1351172	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.22	164	835982	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.09	188	164031	20.00	ng/ul	0.11
77) Chrysene-d12	21.33	240	3327	20.00	ng/ul	0.12
85) Perylene-d12	23.42	264	1375746	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.21	96	1940	0.30	ng/uL	0.00
5) Phenol-d5	6.78	99	38270	1.58	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	6.93	67	24425	1.62	ng/ul	0.00
9) 2-Chlorophenol-d4	7.13	132	33339	1.80	ng/ul	0.00
13) 4-Methylphenol-d8	8.30	113	31227	1.65	ng/ul	0.00
19) Nitrobenzene-d5	8.73	128	20589	2.48	ng/ul	0.00
22) 2-Nitrophenol-d4	9.45	143	17177	2.04	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	9.99	165	33668	1.74	ng/ul	0.02
29) 4-Chloroaniline-d4	10.50	131	37703	1.89	ng/ul	0.01
43) Dimethylphthalate-d6	13.64	166	129718	2.14	ng/ul	0.00
46) Acenaphthylene-d8	13.92	160	151130	2.03	ng/ul	0.00
51) 4-Nitrophenol-d4	14.44	143	3724	0.39	ng/ul	0.00
57) Fluorene-d10	15.22	176	111358	2.19	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.46	200	972	1.32	ng/ul	0.10
70) Anthracene-d10	17.09	188	163833	23.83	ng/ul	0.00
78) Pyrene-d10	19.40	212	172276	1012.22	ng/ul	0.00
89) Benzo(a)pyrene-d12	23.27	264	120004	2.00	ng/ul	0.00

Target Compounds

					Ovalue
17) Hexachloroethane	8.68	117	68059	8.189	ng/ul# 6
28) Naphthalene	10.41	128	11454379	182.355	ng/ul 99
30) 4-Chloroaniline	10.41	127	1568453	77.264	ng/ul# 11
32) Caprolactam	11.39	113	6112	1.059	ng/ul 99
34) 2-Methylnaphthalene	12.03	142	9770952	212.444	ng/ul 99
40) 1,1'-Biphenyl	13.05	154	2561938	41.130	ng/ul 99
47) Acenaphthylene	13.95	152	10857875	148.233	ng/ul 95
49) Acenaphthene	14.29	153	899664	17.991	ng/ul 98
53) Dibenzofuran	14.63	168	1039204	14.434	ng/ul 99
54) 2,4-Dinitrotoluene	14.59	165	56762	3.771	ng/ul# 47
58) Fluorene	15.30	166	806545	14.356	ng/ul# 56
64) N-Nitrosodiphenylamine	15.60	169	51202	11.405	ng/ul# 12
69) Phenanthrene	17.12	178	7751720	970.351	ng/ul 99
71) Anthracene	17.12	178	7751720	952.542	ng/ul 99
76) Fluoranthene	19.07	202	12709924	1434.392	ng/ul 99
79) Pyrene	19.43	202	15951553	74465.137	ng/ul 97
80) Butylbenzylphthalate	20.47	149	977	11.520	ng/ul# 48
81) 3,3'-Dichlorobenzidine	21.26	252	83746	1259.871	ng/ul# 1
82) Benzo(a)anthracene	21.25	228	4961214	23970.269	ng/ul 94
83) Bis(2-ethylhexyl)phthalate	21.25	149	16305	124.851	ng/ul# 71
84) Chrysene	21.25	228	4957220	25806.650	ng/ul 98
87) Benzo(b)fluoranthene	22.77	252	3812325	49.297	ng/ul 98
88) Benzo(k)fluoranthene	22.77	252	3812325	51.616	ng/ul 98

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Quant Title : SVOA CALIBRATION
QLast Update : Tue May 07 05:36:07 2019
Response via : Initial Calibration

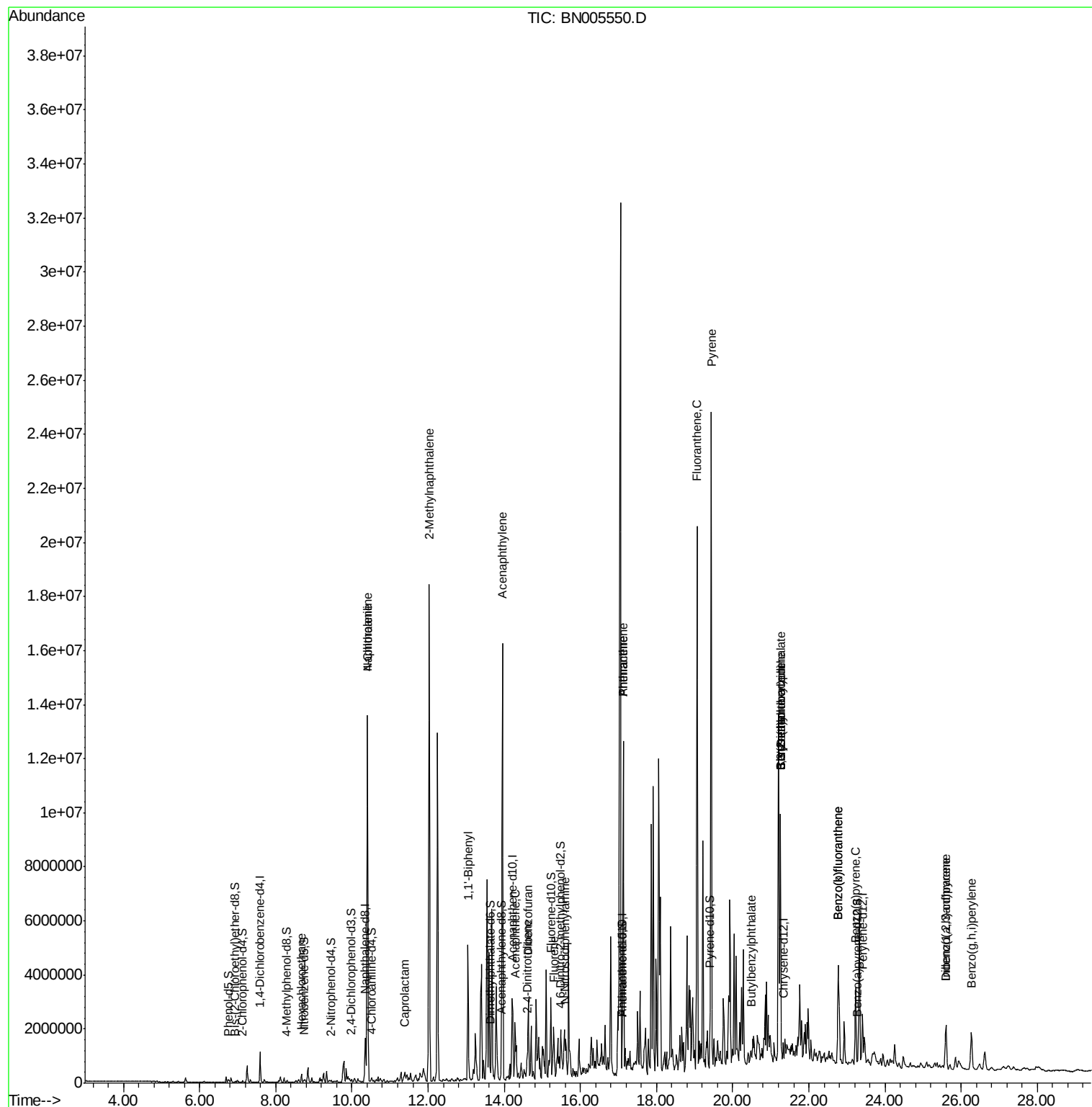
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
90) Benzo(a)pyrene	23.23	252	2054916	28.269	ng/ul	98
91) Indeno(1,2,3-cd)pyrene	25.60	276	1547332	19.253	ng/ul#	92
92) Dibenzo(a,h)anthracene	25.60	278	452095	6.628	ng/ul#	83
93) Benzo(g,h,i)perylene	26.27	276	1606957	24.182	ng/ul	94

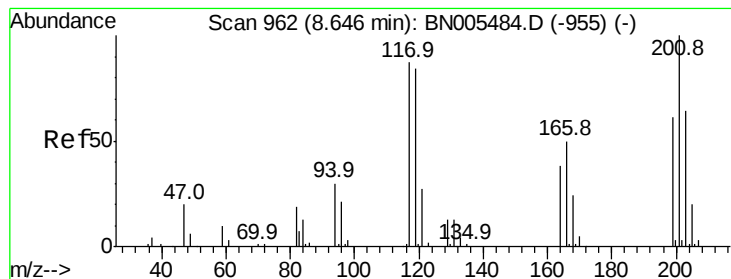
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#17

Hexachloroethane

Concen: 8.189 ng/ul

RT: 8.68 min Scan# 967

Delta R.T. 0.03 min

Lab File: BN005550.D

Acq: 09 May 2019 01:46

Instrument :

BNA_N

ClientSampled :

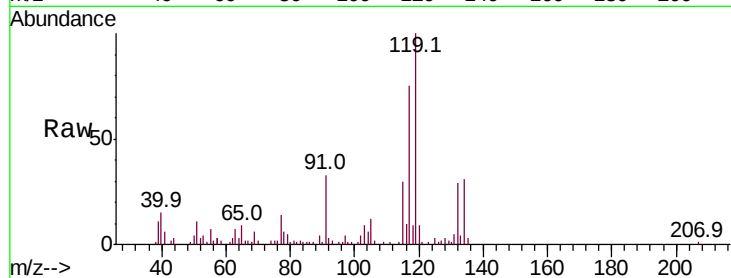
Tot Ion:117 Resp: 68059

Ion Ratio Lower Upper

117 100

201 0.0 84.1 126.1#

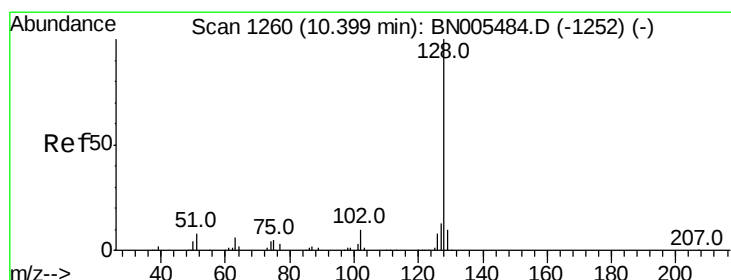
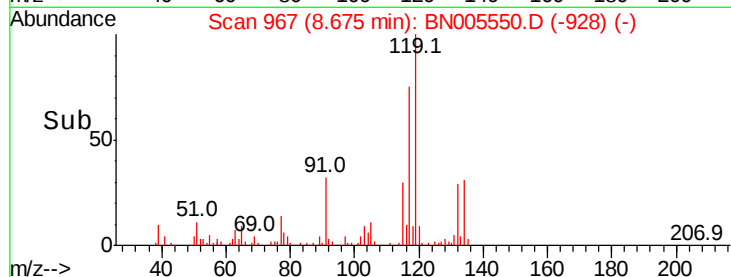
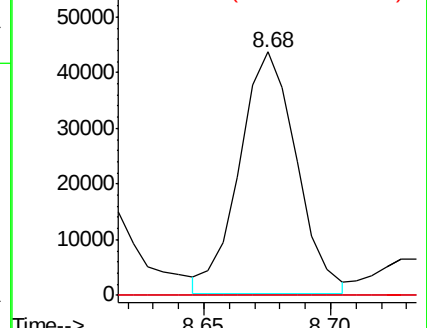
199 0.0 51.2 76.8#



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



#28

Naphthalene

Concen: 182.355 ng/ul

RT: 10.41 min Scan# 1262

Delta R.T. 0.01 min

Lab File: BN005550.D

Acq: 09 May 2019 01:46

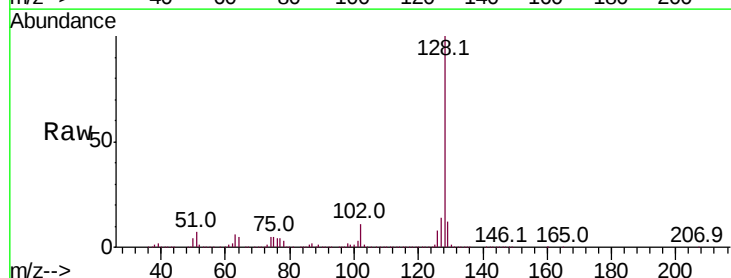
Tgt Ion:128 Resp:11454379

Ion Ratio Lower Upper

128 100

129 11.5 9.2 13.8

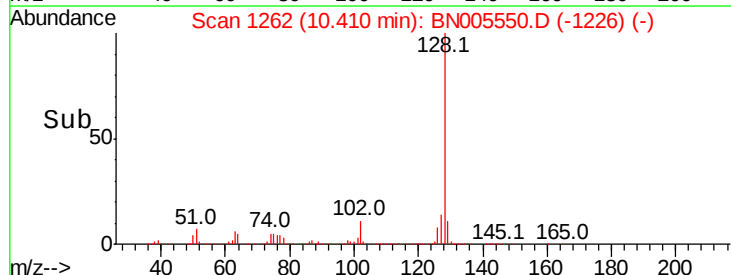
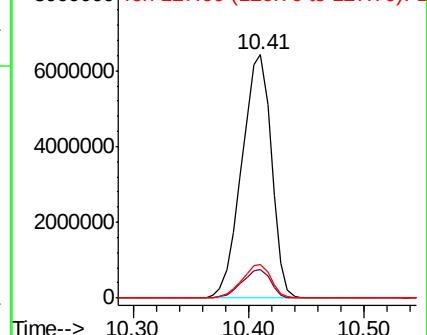
127 14.1 10.7 16.1

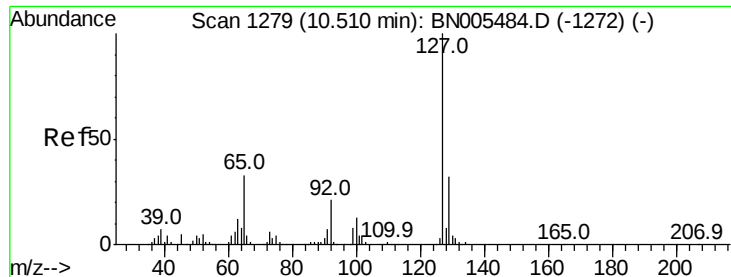


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

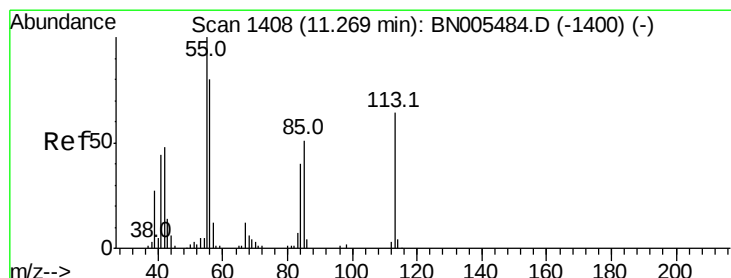
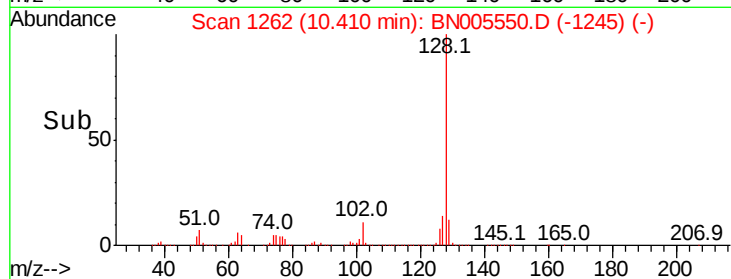
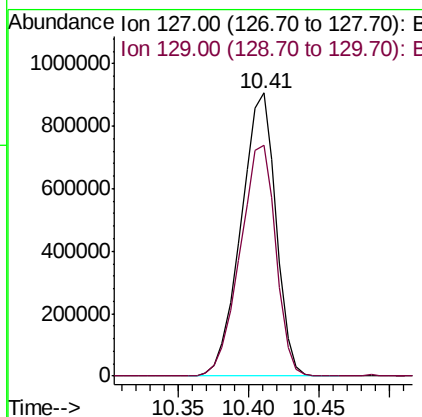
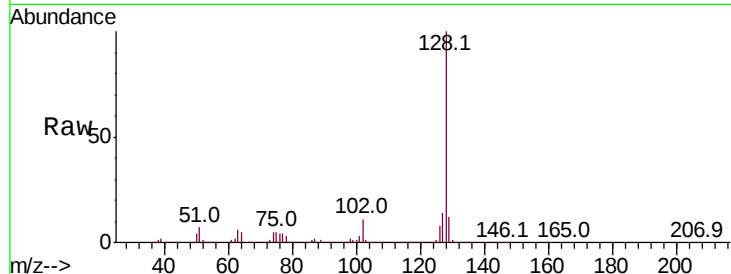




#30
4-Chloroaniline
Concen: 77.264 ng/ul
RT: 10.41 min Scan# 1262
Delta R.T. -0.10 min
Lab File: BN005550.D
Acq: 09 May 2019 01:46

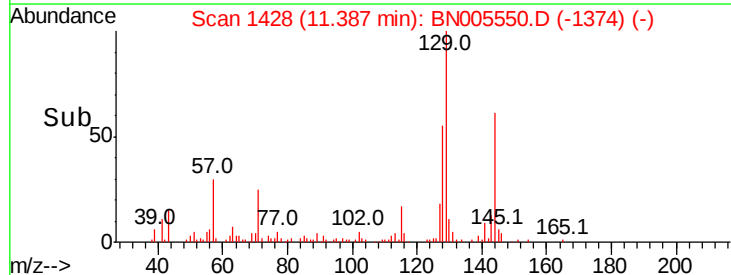
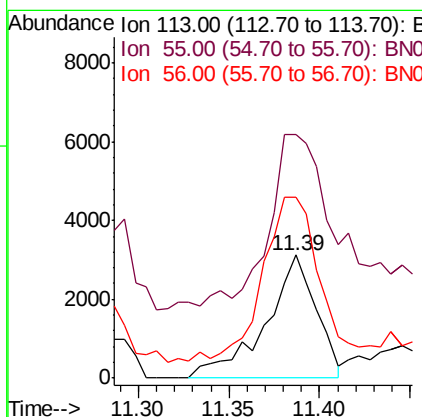
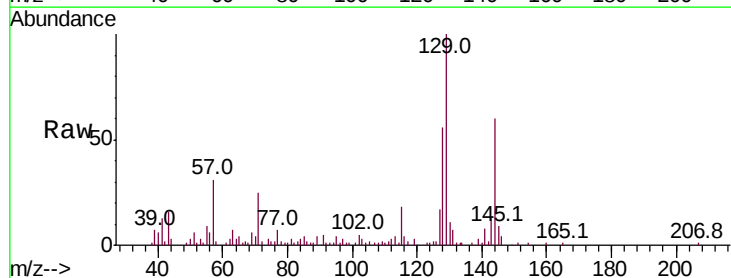
Instrument :
BNA_N
ClientSampleId :

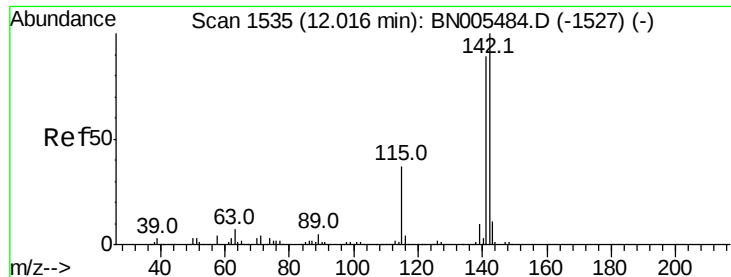
Tot Ion:127 Resp: 1568453
Ion Ratio Lower Upper
127 100
129 81.8 25.8 38.6#



#32
Caprolactam
Concen: 1.059 ng/ul
RT: 11.39 min Scan# 1428
Delta R.T. 0.12 min
Lab File: BN005550.D
Acq: 09 May 2019 01:46

Tgt Ion:113 Resp: 6112
Ion Ratio Lower Upper
113 100
55 198.1 157.0 235.4
56 147.4 119.1 178.7

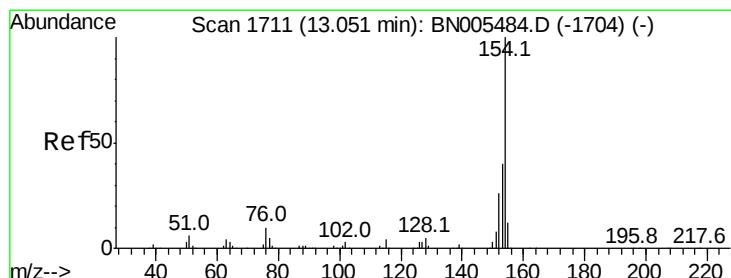
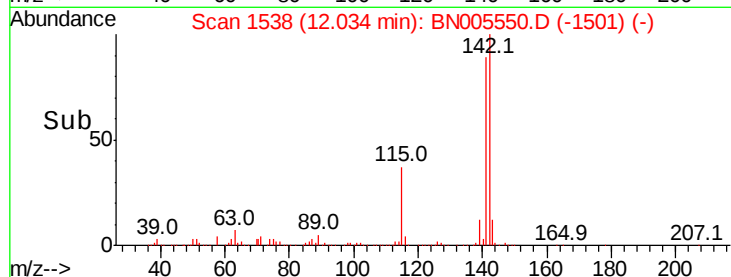
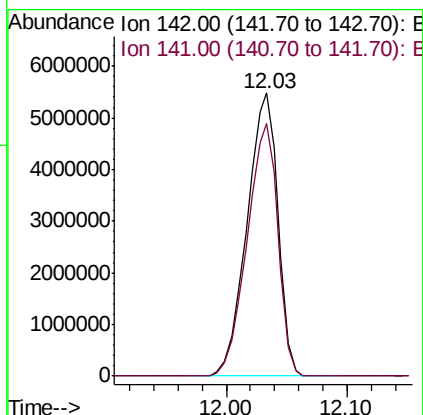
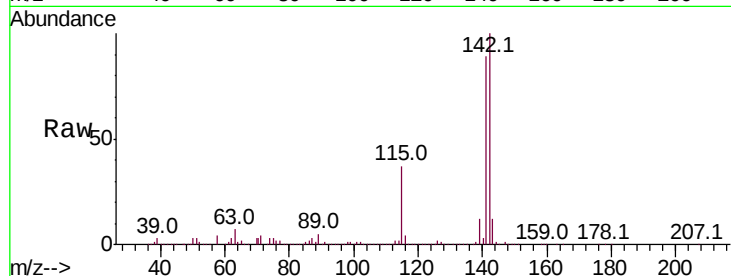




#34
 2-Methylnaphthalene
 Concen: 212.444 ng/ul
 RT: 12.03 min Scan# 1538
 Delta R.T. 0.02 min
 Lab File: BN005550.D
 Acq: 09 May 2019 01:46

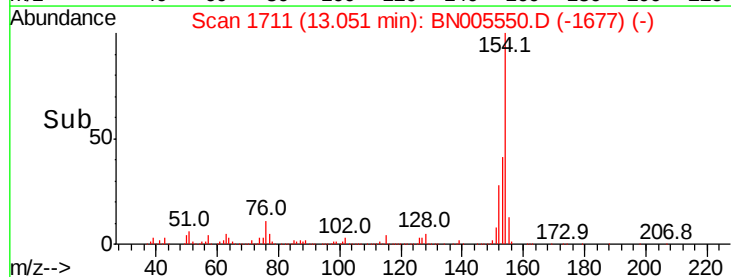
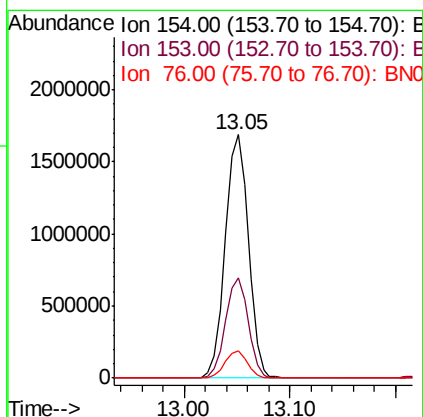
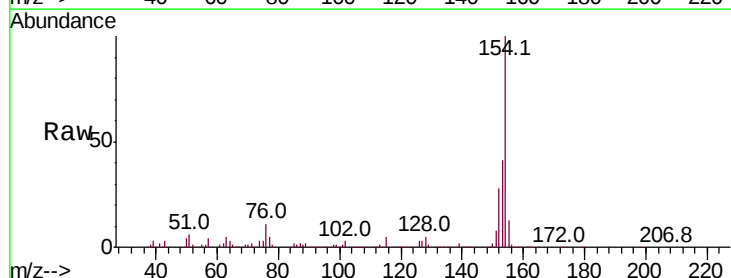
Instrument :
 BNA_N
 ClientSampleId :

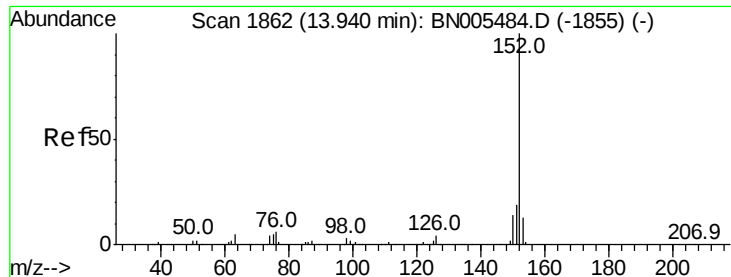
Tot Ion:142 Resp: 9770952
 Ion Ratio Lower Upper
 142 100
 141 89.2 72.0 108.0



#40
 1,1'-Biphenyl
 Concen: 41.130 ng/ul
 RT: 13.05 min Scan# 1711
 Delta R.T. -0.00 min
 Lab File: BN005550.D
 Acq: 09 May 2019 01:46

Tgt Ion:154 Resp: 2561938
 Ion Ratio Lower Upper
 154 100
 153 41.0 32.6 49.0
 76 11.1 10.4 15.6





#47

Acenaphthylene

Concen: 148.233 ng/ul

RT: 13.95 min Scan# 1864

Delta R.T. 0.01 min

Lab File: BN005550.D

Acq: 09 May 2019 01:46

Instrument :

BNA_N

ClientSampleId :

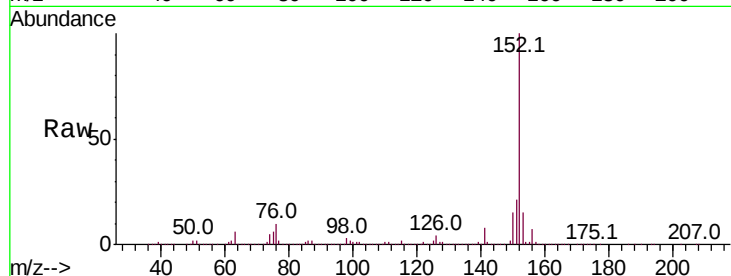
Tot Ion:152 Resp:10857875

Ion Ratio Lower Upper

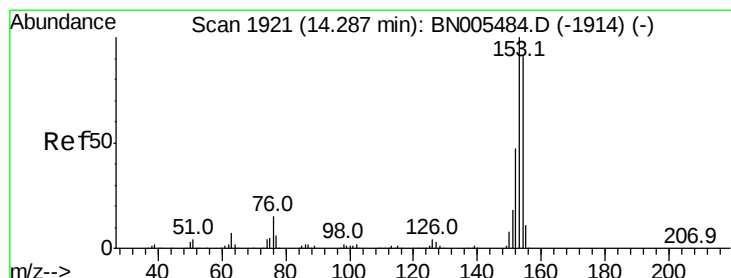
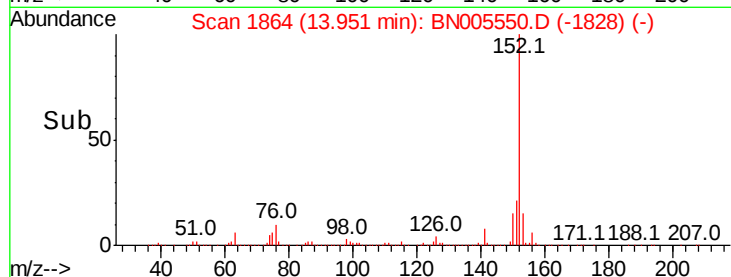
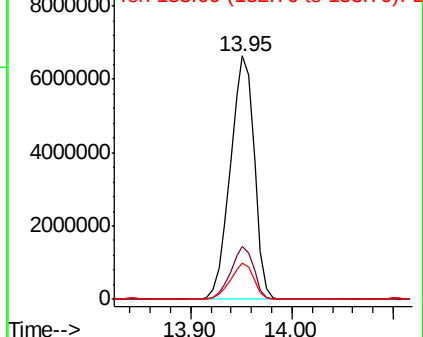
152 100

151 21.5 15.8 23.8

153 14.7 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: 17.991 ng/ul

RT: 14.29 min Scan# 1921

Delta R.T. -0.00 min

Lab File: BN005550.D

Acq: 09 May 2019 01:46

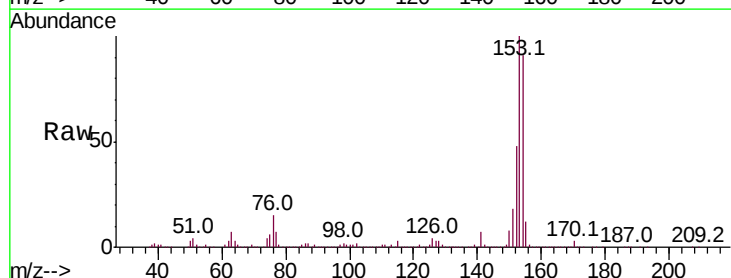
Tgt Ion:153 Resp: 899664

Ion Ratio Lower Upper

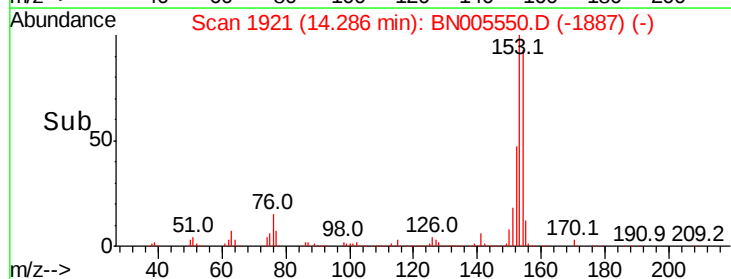
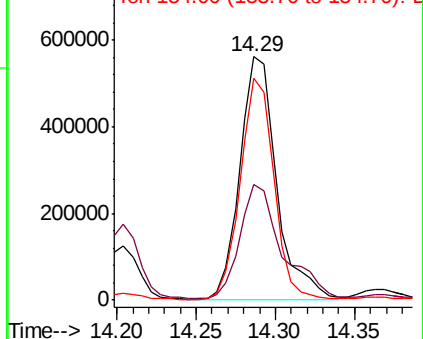
153 100

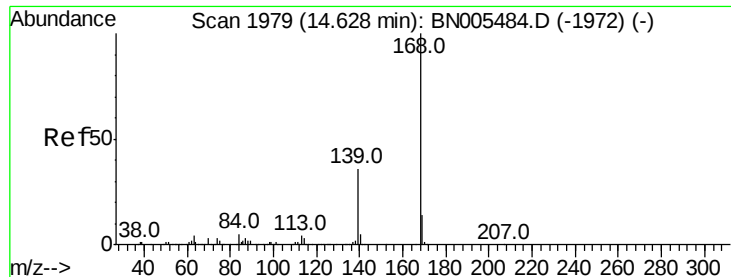
152 47.6 37.4 56.0

154 90.9 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

Dibenzenofuran

Concen: 14.434 ng/ul

RT: 14.63 min Scan# 1979

Delta R.T. -0.00 min

Lab File: BN005550.D

Acq: 09 May 2019 01:46

Instrument :

BNA_N

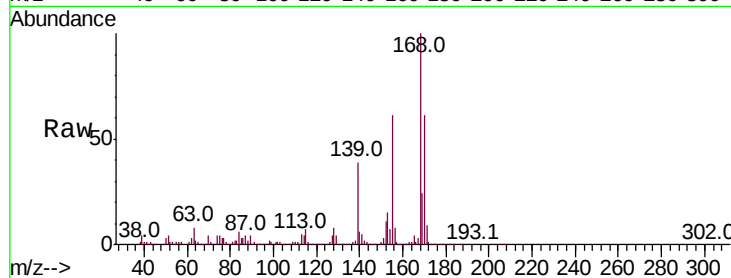
ClientSampleId :

Tot Ion:168 Resp: 1039204

Ion Ratio Lower Upper

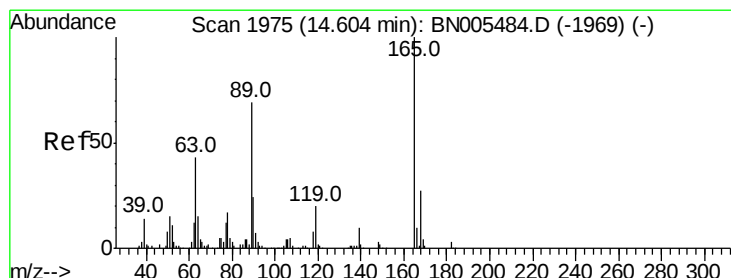
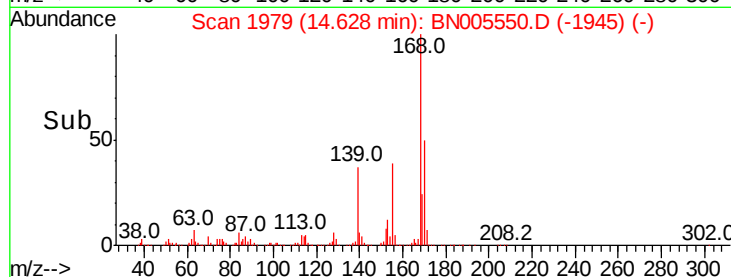
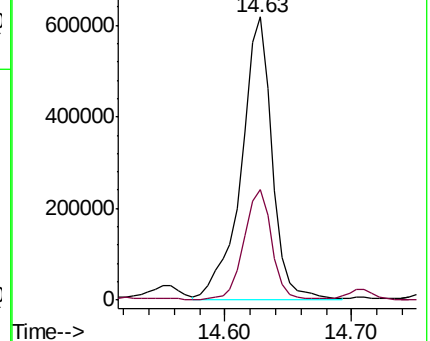
168 100

139 38.9 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: 3.771 ng/ul

RT: 14.59 min Scan# 1973

Delta R.T. -0.01 min

Lab File: BN005550.D

Acq: 09 May 2019 01:46

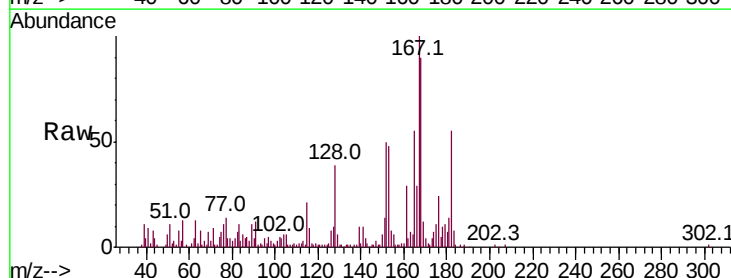
Tgt Ion:165 Resp: 56762

Ion Ratio Lower Upper

165 100

63 23.5 38.9 58.3#

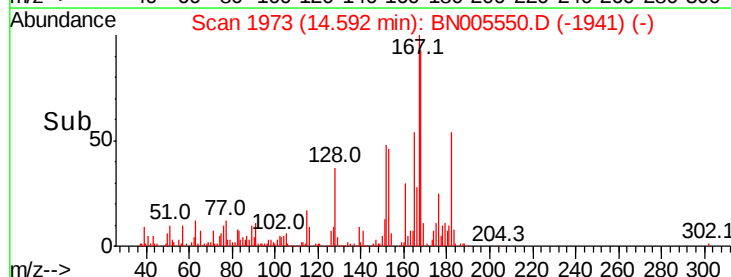
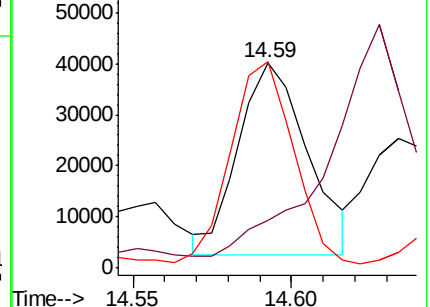
182 100.4 2.6 3.8#

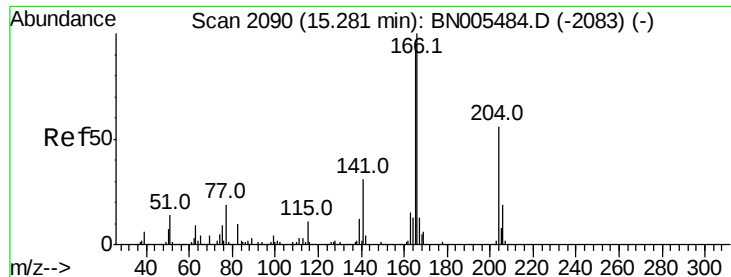


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BN0

Ion 182.00 (181.70 to 182.70): E





#58

Fluorene

Concen: 14.356 ng/ul

RT: 15.30 min Scan# 2094

Delta R.T. 0.02 min

Lab File: BN005550.D

Acq: 09 May 2019 01:46

Instrument :

BNA_N

ClientSampled :

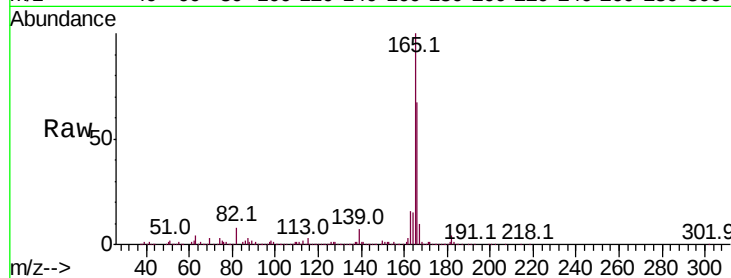
Tot Ion:166 Resp: 806545

Ion Ratio Lower Upper

166 100

165 149.4 80.0 120.0#

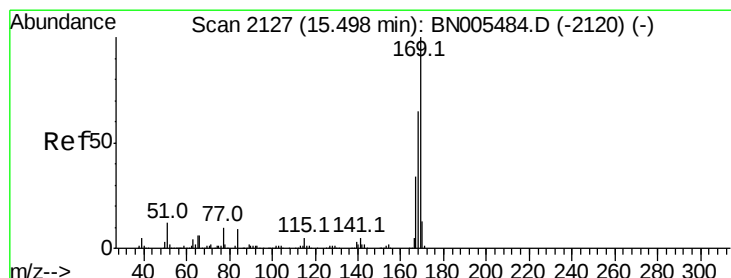
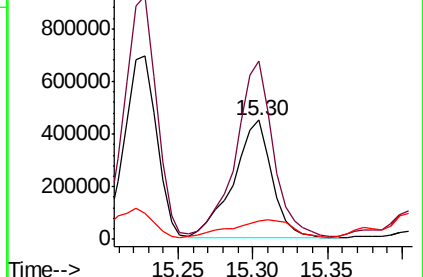
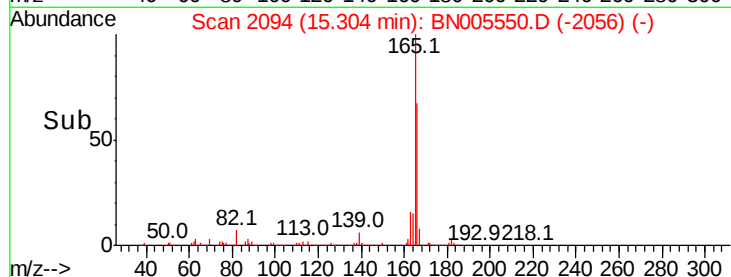
167 15.5 10.7 16.1



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: 11.405 ng/ul

RT: 15.60 min Scan# 2144

Delta R.T. 0.10 min

Lab File: BN005550.D

Acq: 09 May 2019 01:46

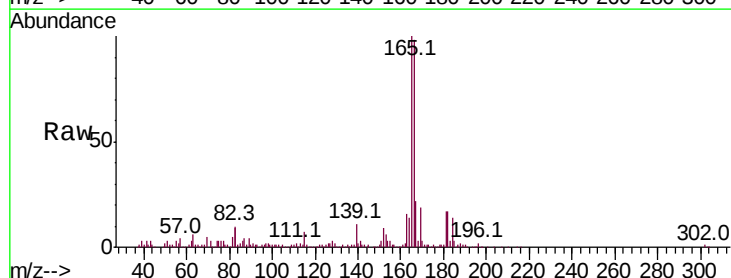
Tgt Ion:169 Resp: 51202

Ion Ratio Lower Upper

169 100

168 18.0 52.2 78.2#

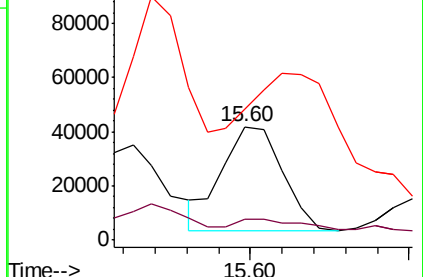
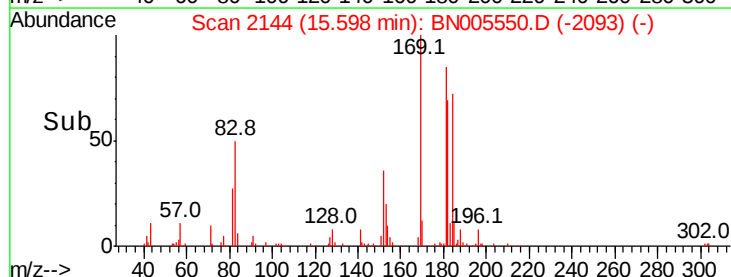
167 115.8 27.7 41.5#

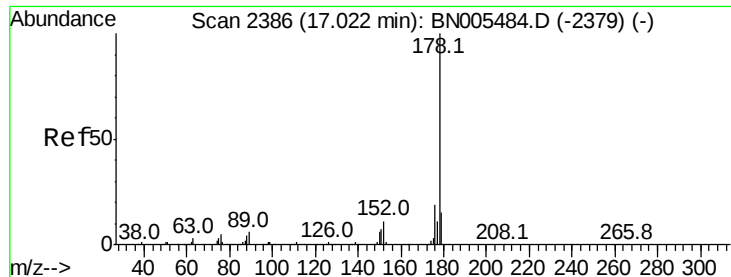


Abundance Ion 169.00 (168.70 to 169.70): E

Ion 168.00 (167.70 to 168.70): E

Ion 167.00 (166.70 to 167.70): E





#69

Phenanthrene

Concen: 970.351 ng/ul

RT: 17.12 min Scan# 2403

Delta R.T. 0.10 min

Lab File: BN005550.D

Acq: 09 May 2019 01:46

Instrument :

BNA_N

ClientSampleId :

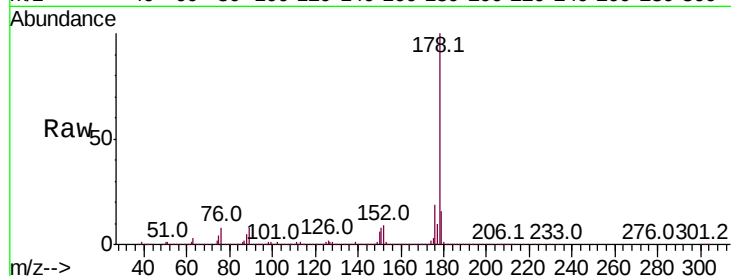
Tot Ion:178 Resp: 7751720

Ion Ratio Lower Upper

178 100

179 16.2 12.2 18.4

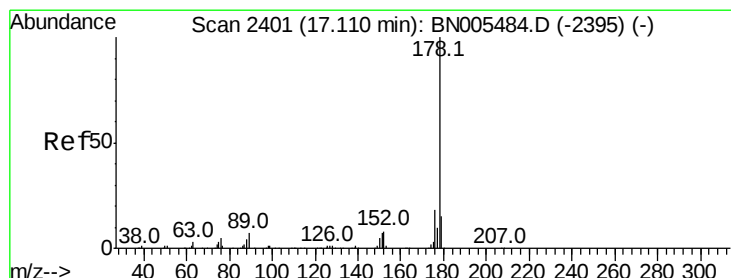
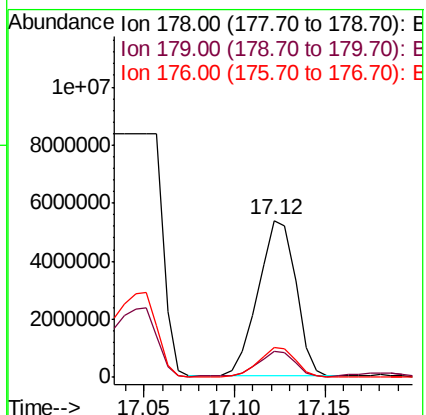
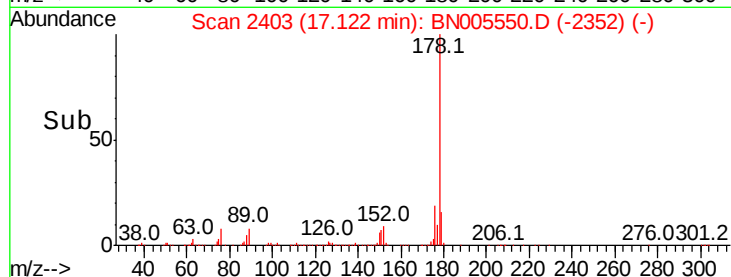
176 19.2 15.1 22.7



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: 952.542 ng/ul

RT: 17.12 min Scan# 2403

Delta R.T. 0.01 min

Lab File: BN005550.D

Acq: 09 May 2019 01:46

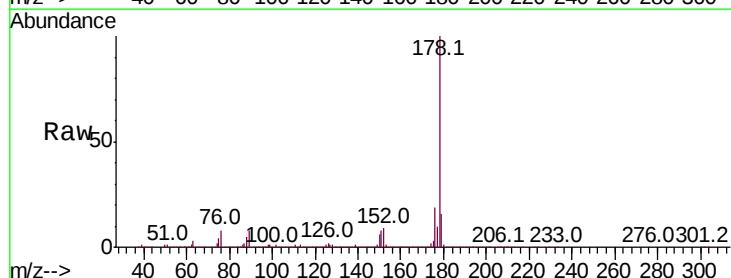
Tgt Ion:178 Resp: 7751720

Ion Ratio Lower Upper

178 100

179 16.2 12.3 18.5

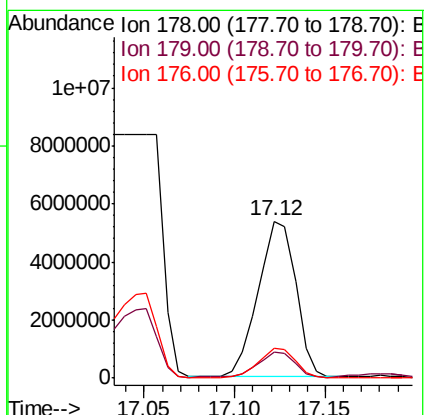
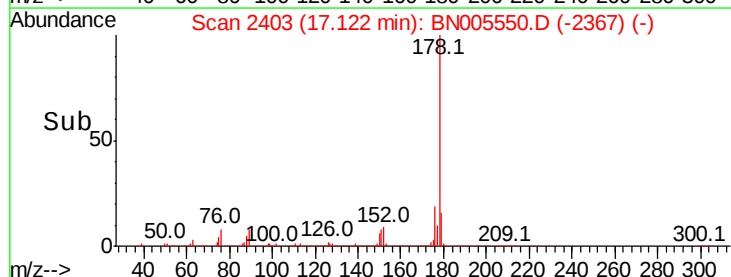
176 19.2 15.1 22.7

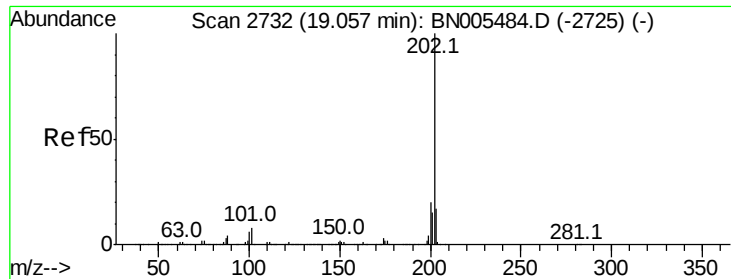


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E

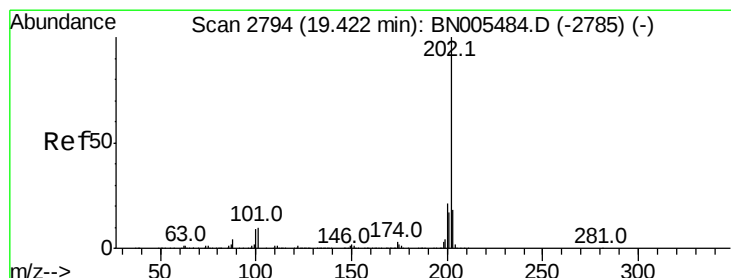
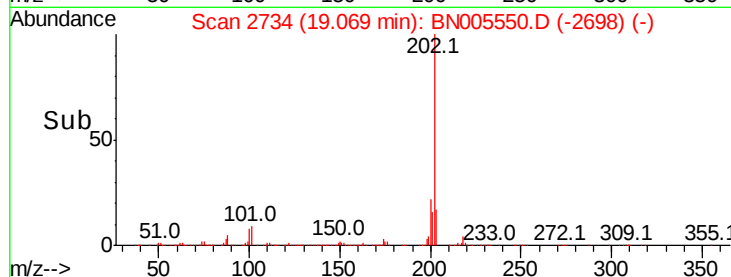
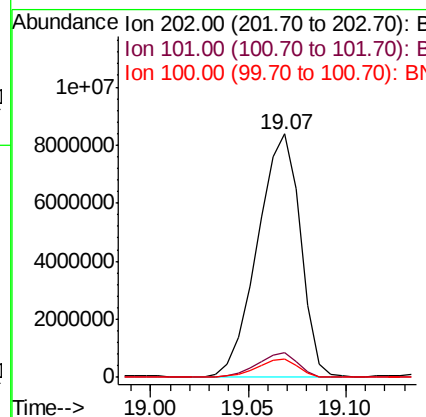
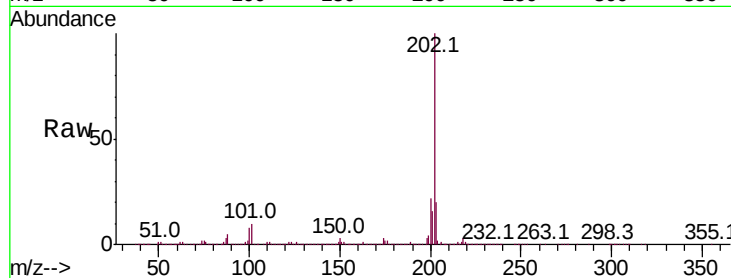




#76
 Fluoranthene
 Concen: 1434.392 ng/u1
 RT: 19.07 min Scan# 2734
 Delta R.T. 0.01 min
 Lab File: BN005550.D
 Acq: 09 May 2019 01:46

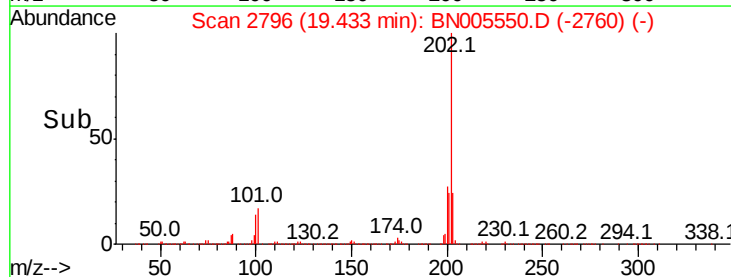
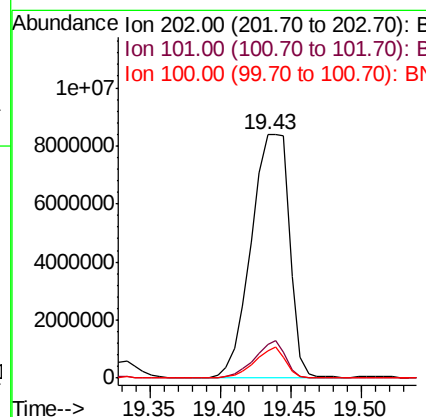
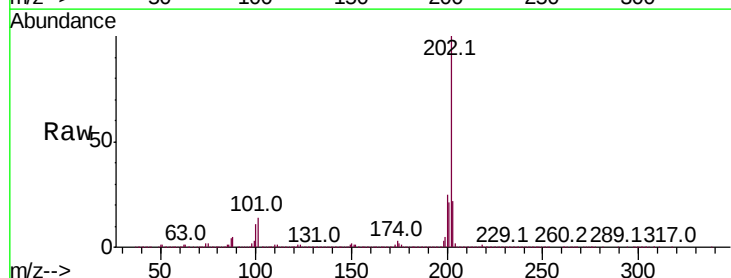
Instrument :
 BNA_N
 ClientSampled :

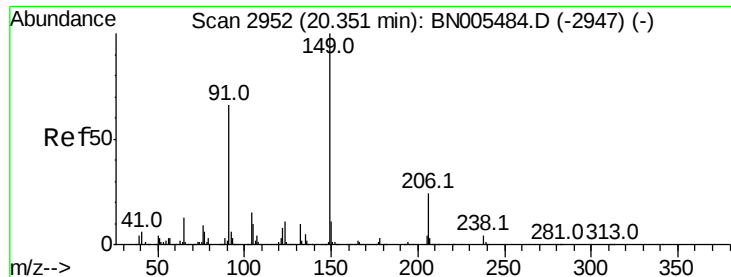
Tot Ion:202 Resp:12709924
 Ion Ratio Lower Upper
 202 100
 101 10.3 8.6 12.8
 100 7.8 6.3 9.5



#79
 Pyrene
 Concen: 74465.137 ng/u1
 RT: 19.43 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: BN005550.D
 Acq: 09 May 2019 01:46

Tgt Ion:202 Resp:15951553
 Ion Ratio Lower Upper
 202 100
 101 14.0 10.3 15.5
 100 11.4 7.9 11.9

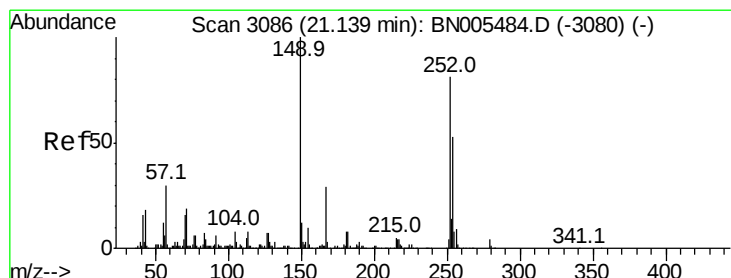
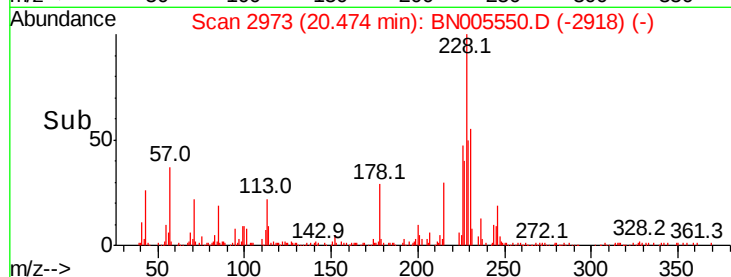
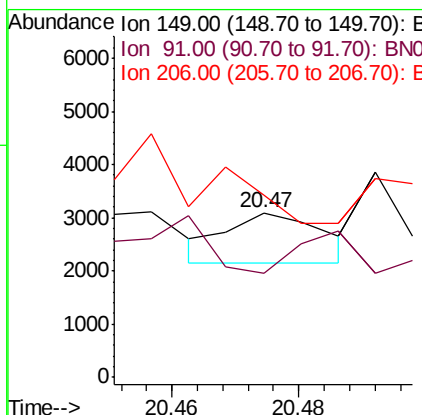
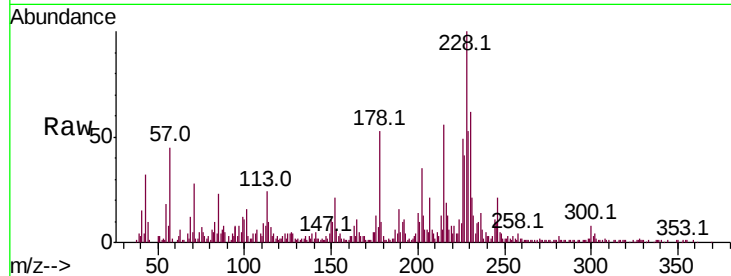




#80
Butylbenzylphthalate
Concen: 11.520 ng/ul
RT: 20.47 min Scan# 2973
Delta R.T. 0.12 min
Lab File: BN005550.D
Acq: 09 May 2019 01:46

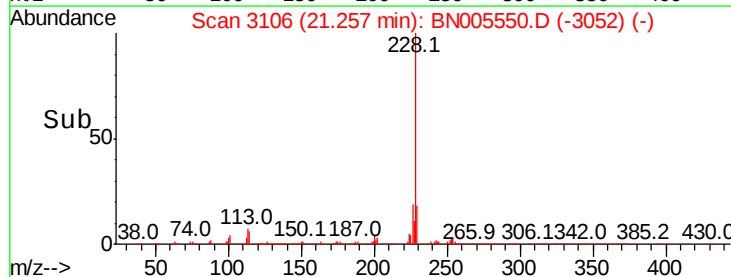
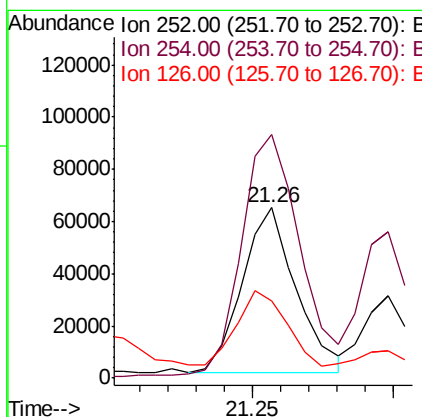
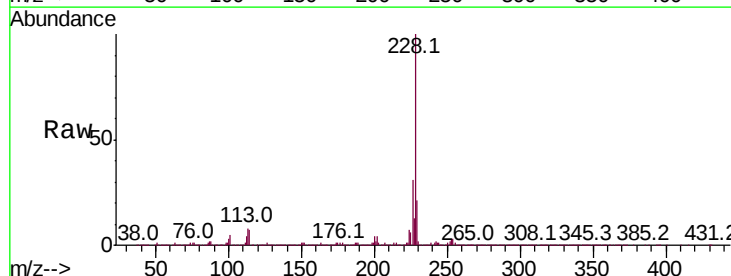
Instrument :
BNA_N
ClientSampleId :

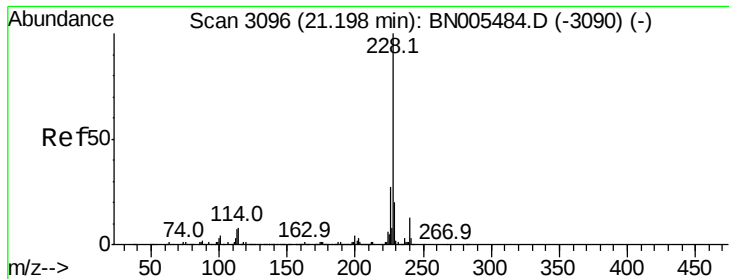
Tot Ion:149 Resp: 977
Ion Ratio Lower Upper
149 100
91 63.6 59.6 89.4
206 110.7 17.8 26.8#



#81
3,3'-Dichlorobenzidine
Concen: 1259.871 ng/ul
RT: 21.26 min Scan# 3106
Delta R.T. 0.12 min
Lab File: BN005550.D
Acq: 09 May 2019 01:46

Tgt Ion:252 Resp: 83746
Ion Ratio Lower Upper
252 100
254 143.2 51.1 76.7#
126 45.7 9.4 14.0#





#82

Benzo(a)anthracene

Concen: 23970.269 ng/u1

RT: 21.25 min Scan# 3105

Delta R.T. 0.05 min

Lab File: BN005550.D

Acq: 09 May 2019 01:46

Instrument :

BNA_N

ClientSampled :

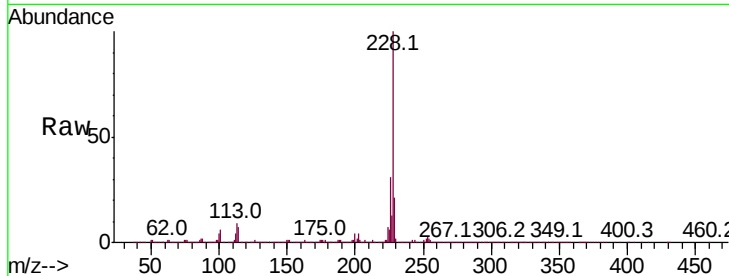
Tot Ion:228 Resp: 4961214

Ion Ratio Lower Upper

228 100

229 21.2 15.8 23.6

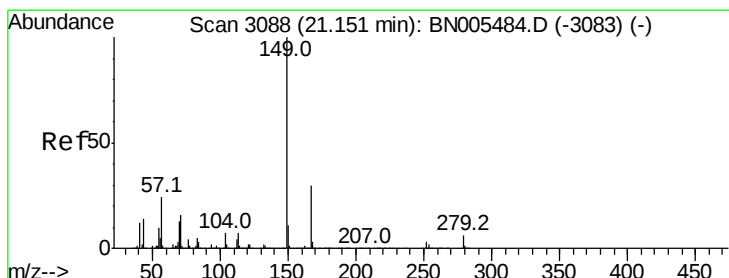
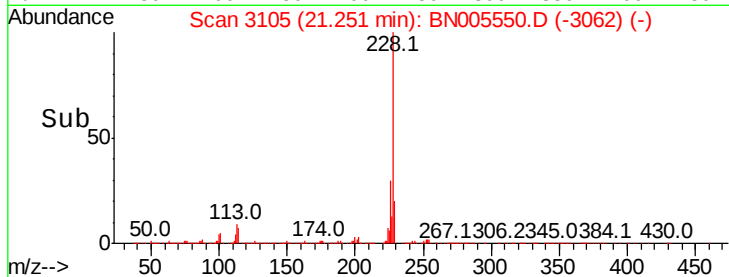
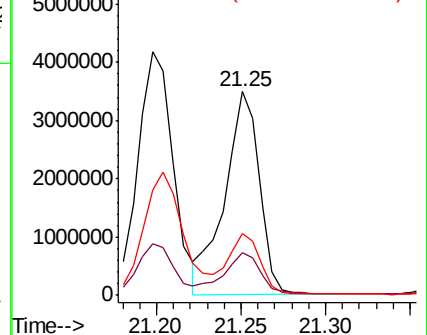
226 30.6 21.4 32.2



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



#83

Bis(2-ethylhexyl)phthalate

Concen: 124.851 ng/u1

RT: 21.25 min Scan# 3105

Delta R.T. 0.10 min

Lab File: BN005550.D

Acq: 09 May 2019 01:46

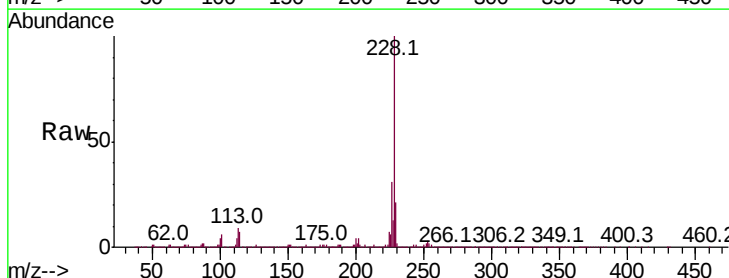
Tgt Ion:149 Resp: 16305

Ion Ratio Lower Upper

149 100

167 10.9 22.3 33.5#

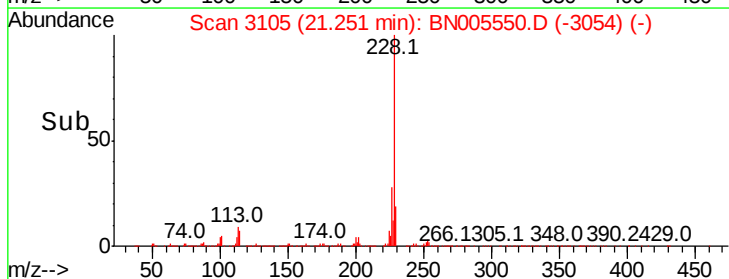
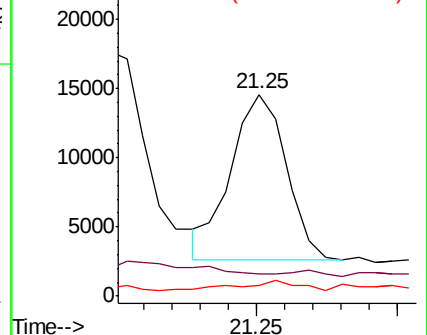
279 5.6 3.3 4.9#

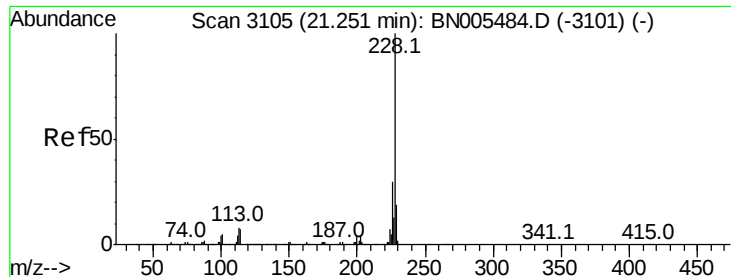


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#84

Chrysene

Concen: 25806.650 ng/u1

RT: 21.25 min Scan# 3105

Delta R.T. -0.00 min

Lab File: BN005550.D

Acq: 09 May 2019 01:46

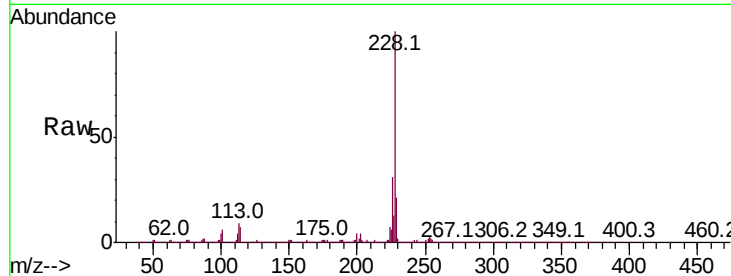
Instrument :

BNA_N

ClientSampleId :

Tot Ion:228 Resp: 4957220

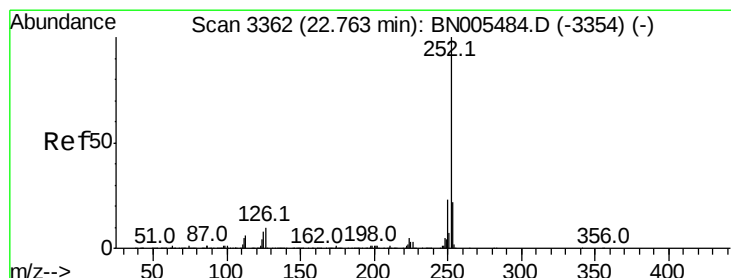
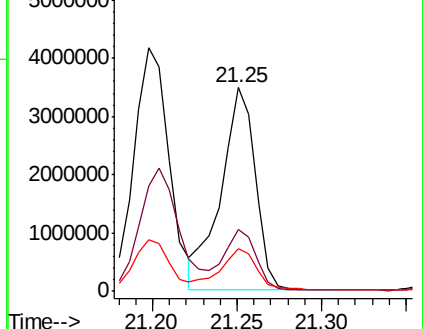
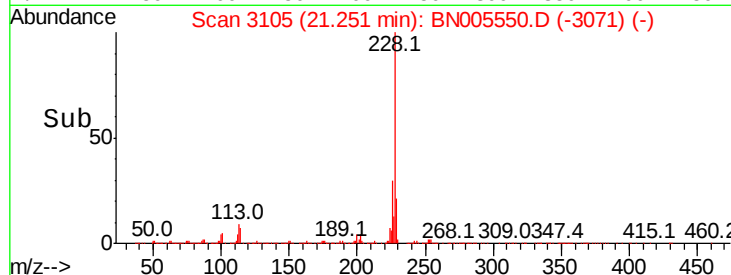
Ion	Ratio	Lower	Upper
228	100		
226	30.6	24.0	36.0
229	21.2	15.4	23.0



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: 49.297 ng/u1

RT: 22.77 min Scan# 3363

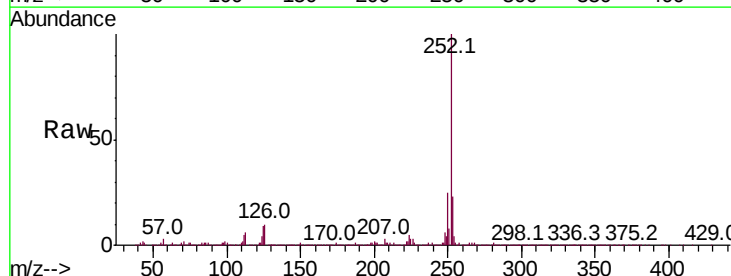
Delta R.T. 0.01 min

Lab File: BN005550.D

Acq: 09 May 2019 01:46

Tgt Ion:252 Resp: 3812325

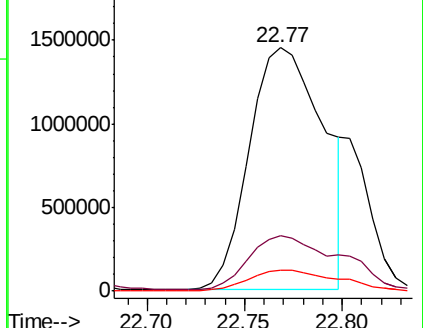
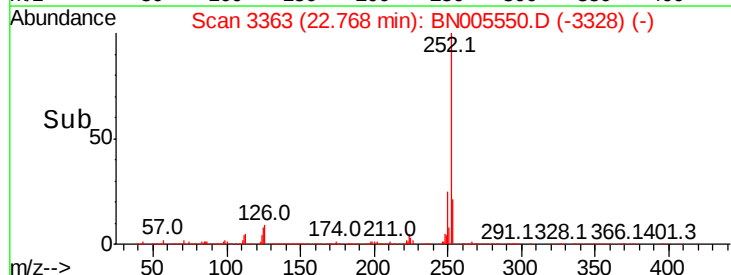
Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.7	26.5
125	8.8	8.4	12.6

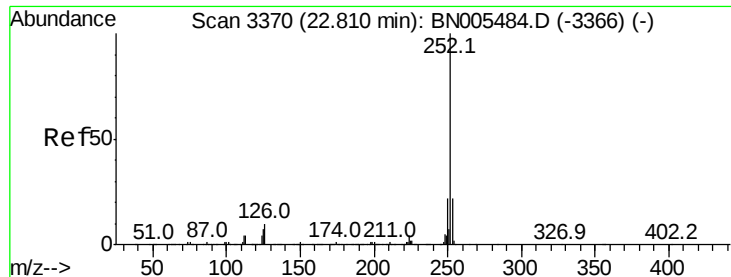


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#88

Benzo(k)fluoranthene

Concen: 51.616 ng/ul

RT: 22.77 min Scan# 3363

Delta R.T. -0.04 min

Lab File: BN005550.D

Acq: 09 May 2019 01:46

Instrument :

BNA_N

ClientSampleId :

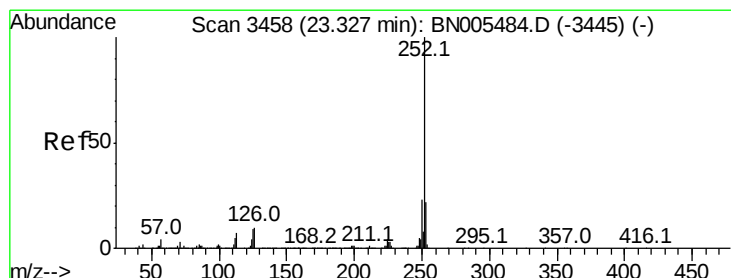
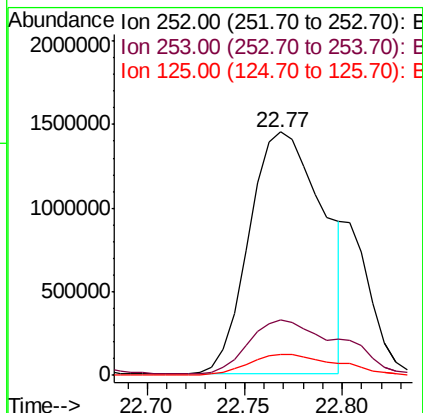
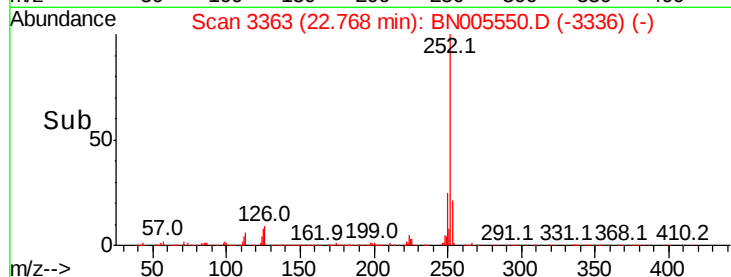
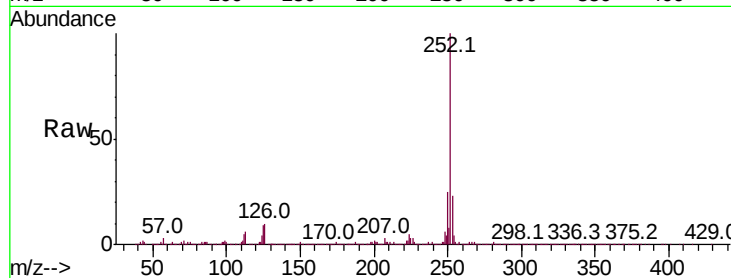
Tot Ion:252 Resp: 3812325

Ion Ratio Lower Upper

252 100

253 22.5 17.4 26.0

125 8.8 7.5 11.3



#90

Benzo(a)pyrene

Concen: 28.269 ng/ul

RT: 23.23 min Scan# 3441

Delta R.T. -0.10 min

Lab File: BN005550.D

Acq: 09 May 2019 01:46

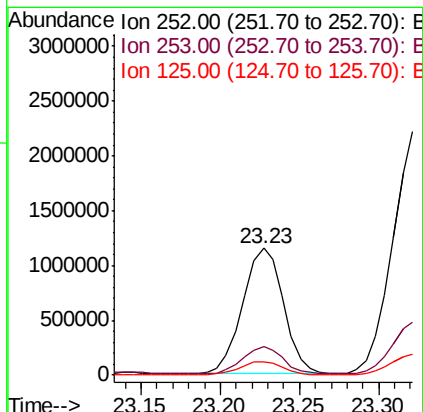
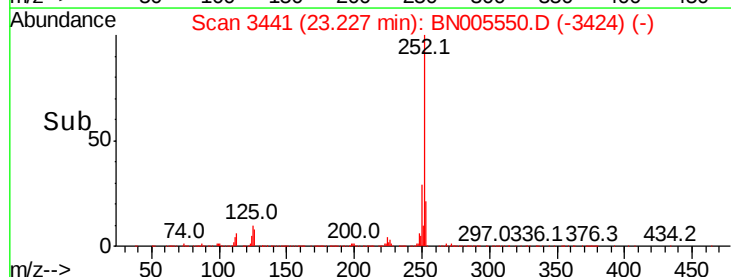
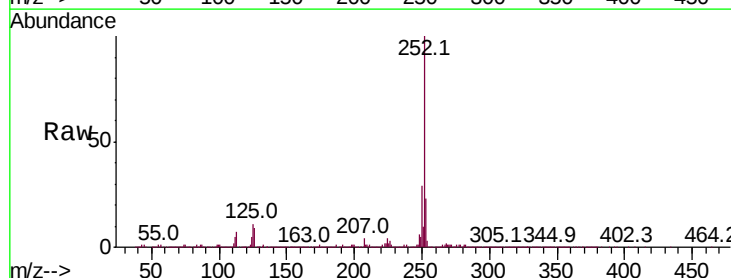
Tgt Ion:252 Resp: 2054916

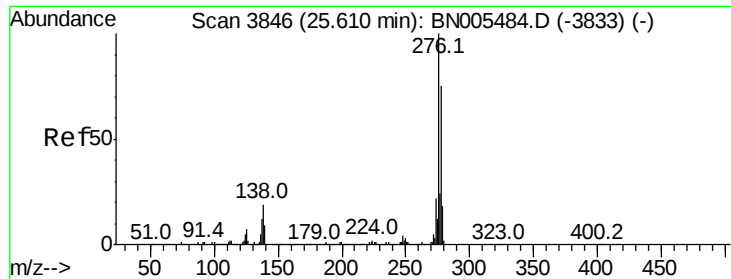
Ion Ratio Lower Upper

252 100

253 22.7 17.3 25.9

125 10.8 8.6 13.0



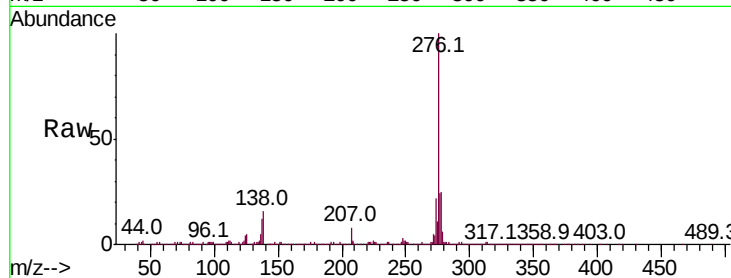


#91

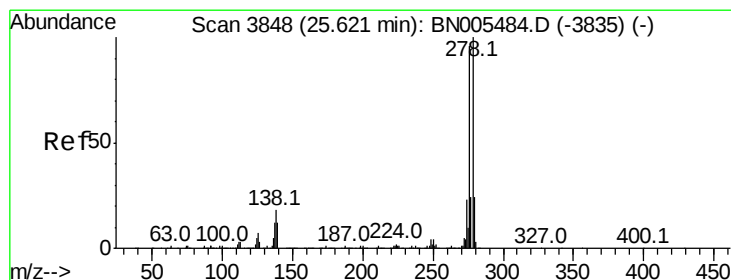
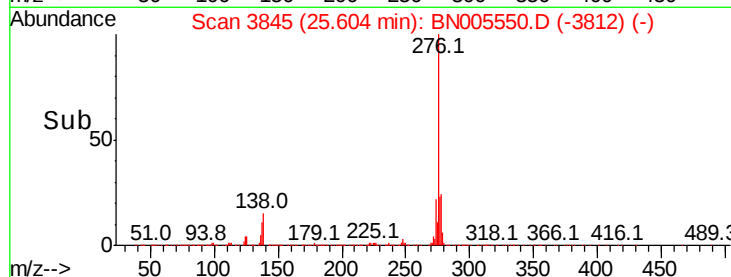
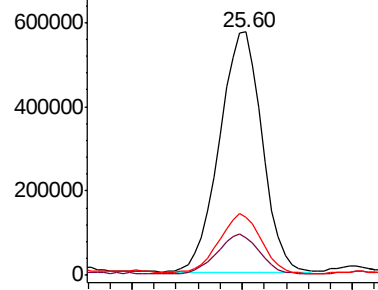
Indeno(1,2,3-cd)pyrene
Concen: 19.253 ng/ul
RT: 25.60 min Scan# 3845
Delta R.T. -0.01 min
Lab File: BN005550.D
Acq: 09 May 2019 01:46

Instrument :
BNA_N
ClientSampleId :

Tot Ion:276 Resp: 1547332
Ion Ratio Lower Upper
276 100
138 15.6 17.9 26.9#
277 23.8 19.7 29.5



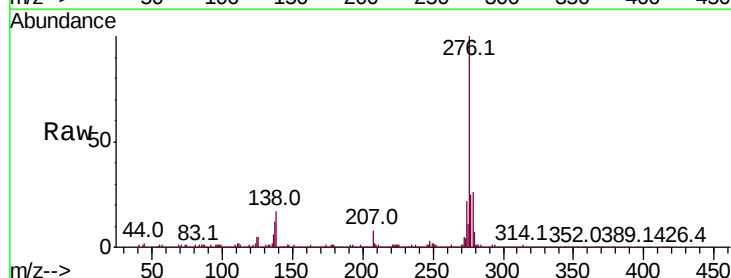
Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E



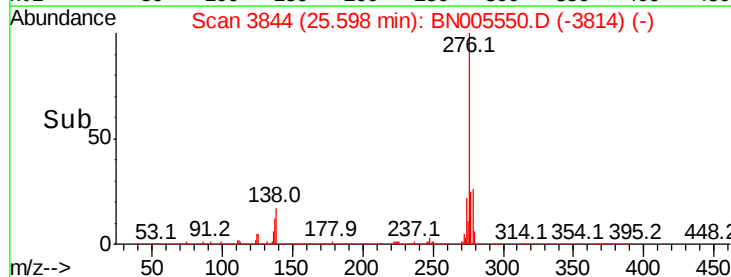
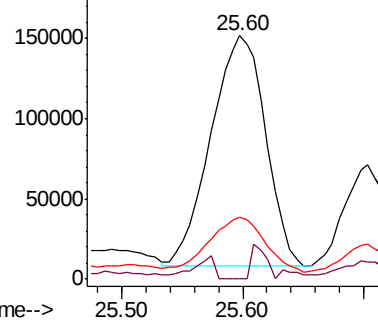
#92

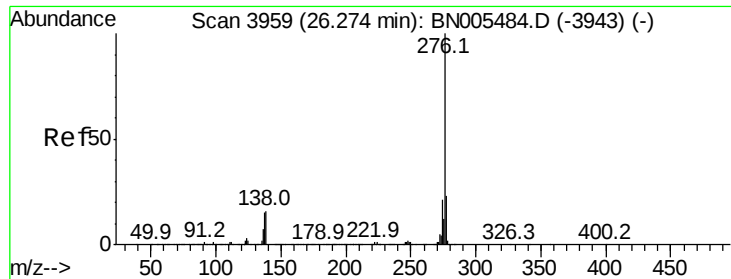
Dibenzo(a,h)anthracene
Concen: 6.628 ng/ul
RT: 25.60 min Scan# 3844
Delta R.T. -0.02 min
Lab File: BN005550.D
Acq: 09 May 2019 01:46

Tgt Ion:278 Resp: 452095
Ion Ratio Lower Upper
278 100
139 0.0 13.1 19.7#
279 25.3 19.4 29.0



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





#93

Benzo(a,h,i)perylene

Concen: 24.182 ng/ul

RT: 26.27 min Scan# 3958

Delta R.T. -0.01 min

Lab File: BN005550.D

Acq: 09 May 2019 01:46

Instrument :

BNA_N

ClientSampleId :

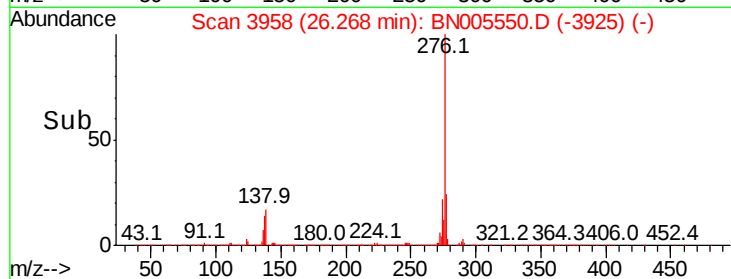
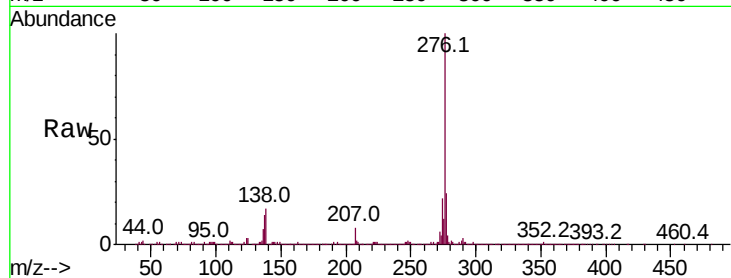
Tot Ion:276 Resp: 1606957

Ion Ratio Lower Upper

276 100

138 17.2 16.7 25.1

277 24.4 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

