

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN050819\
 Data File : BN005542.D
 Acq On : 08 May 2019 21:08
 Operator : JU/SJ
 Sample : K2603-16ME
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :

Quant Time: May 09 02:34:01 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	318233	20.00	ng/ul	0.00
18) Naphthalene-d8	10.36	136	1322174	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.23	164	883911	20.00	ng/ul	0.00
61) Phenanthrene-d10	16.99	188	1953811	20.00	ng/ul	0.00
77) Chrysene-d12	21.21	240	1567418	20.00	ng/ul	0.00
85) Perylene-d12	23.41	264	1483580	20.00	ng/ul	-0.01

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.21	96	27790	4.22	ng/uL	0.00
5) Phenol-d5	6.78	99	649807	26.00	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	6.93	67	400066	25.66	ng/ul	0.00
9) 2-Chlorophenol-d4	7.13	132	552460	28.88	ng/ul	0.00
13) 4-Methylphenol-d8	8.29	113	512462	26.23	ng/ul	0.00
19) Nitrobenzene-d5	8.73	128	327189	40.21	ng/ul	0.00
22) 2-Nitrophenol-d4	9.45	143	343524	41.64	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	9.98	165	607920	32.15	ng/ul	0.00
29) 4-Chloroaniline-d4	10.49	131	920509	47.20	ng/ul	0.00
43) Dimethylphthalate-d6	13.65	166	1999775	31.17	ng/ul	0.00
46) Acenaphthylene-d8	13.92	160	2471510	31.36	ng/ul	0.01
51) 4-Nitrophenol-d4	14.45	143	249937	24.67	ng/ul	0.00
57) Fluorene-d10	15.23	176	1756779	32.62	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.38	200	157734	17.95	ng/ul	0.02
70) Anthracene-d10	17.09	188	2739378	33.45	ng/ul	0.00
78) Pyrene-d10	19.40	212	2909666	36.29	ng/ul	0.00
89) Benzo(a)pyrene-d12	23.27	264	2150889	33.17	ng/ul	0.00

Target Compounds

					Ovalue
4) Benzaldehyde	6.75	77	91525	5.167	ng/ul# 1
14) Acetophenone	8.38	105	91073	2.913	ng/ul# 35
17) Hexachloroethane	8.68	117	230143	26.801	ng/ul# 6
32) Caprolactam	11.28	113	21325	3.776	ng/ul# 1
34) 2-Methylnaphthalene	12.05	142	18670283	414.841	ng/ul 100
40) 1,1'-Biphenyl	13.05	154	1925373	29.235	ng/ul 97
44) Dimethylphthalate	13.69	163	316262	4.947	ng/ul# 98
47) Acenaphthylene	13.95	152	7748057	100.042	ng/ul# 95
49) Acenaphthene	14.29	153	990002	18.724	ng/ul 98
53) Dibenzofuran	14.63	168	1004644	13.197	ng/ul 87
54) 2,4-Dinitrotoluene	14.60	165	50502	3.173	ng/ul# 43
58) Fluorene	15.29	166	4817995	81.109	ng/ul 98
64) N-Nitrosodiphenylamine	15.37	169	175258	3.277	ng/ul 93
69) Phenanthrene	17.12	178	4411128	46.358	ng/ul 99
71) Anthracene	17.12	178	4411128	45.507	ng/ul 99
74) Carbazole	17.39	167	247225	2.969	ng/ul# 80
76) Fluoranthene	19.06	202	4703385	44.563	ng/ul 96
79) Pyrene	19.43	202	6510309	64.509	ng/ul# 94
82) Benzo(a)anthracene	21.25	228	1745030	17.896	ng/ul 95
84) Chrysene	21.25	228	1748872	19.325	ng/ul 98
87) Benzo(b)fluoranthene	22.76	252	899913	10.791	ng/ul 99
88) Benzo(k)fluoranthene	22.76	252	899913	11.299	ng/ul 98
90) Benzo(a)pyrene	23.32	252	1030668	13.148	ng/ul 98

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Quant Title : SVOA CALIBRATION
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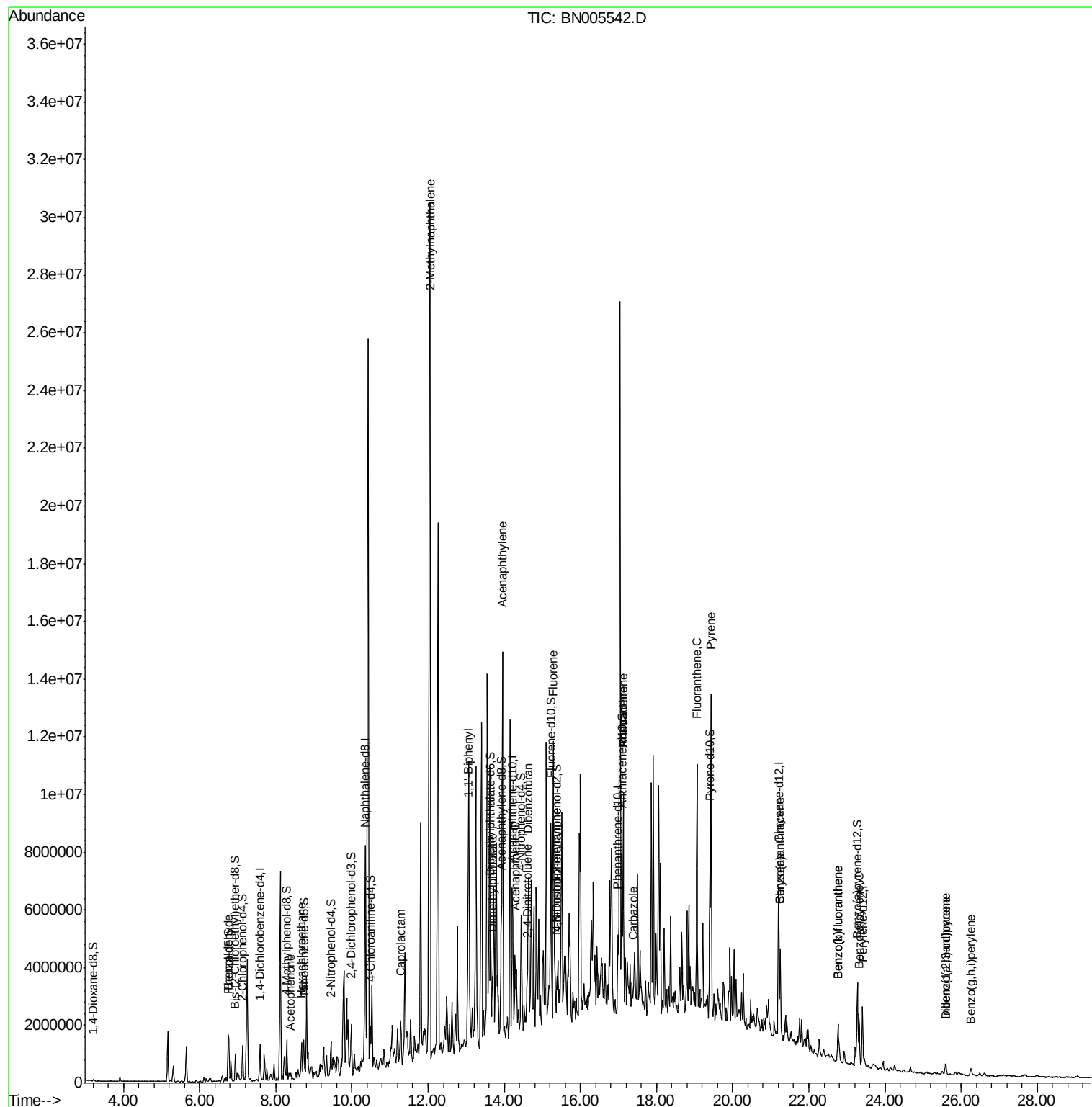
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) Indeno(1,2,3-cd)pyrene	25.59	276	350280	4.042	ng/ul	95
92) Dibenzo(a,h)anthracene	25.59	278	113291	1.540	ng/ul	97
93) Benzo(g,h,i)perylene	26.25	276	284778	3.974	ng/ul	97

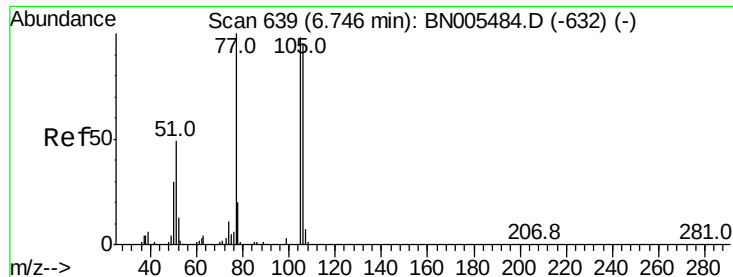
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampled :

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#4

Benzaldehyde

Concen: 5.167 ng/ul

RT: 6.75 min Scan# 640

Delta R.T. 0.01 min

Lab File: BN005542.D

Acq: 08 May 2019 21:08

Instrument :

BNA_N

ClientSampleId :

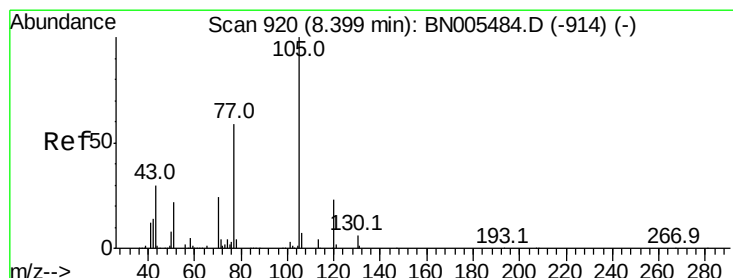
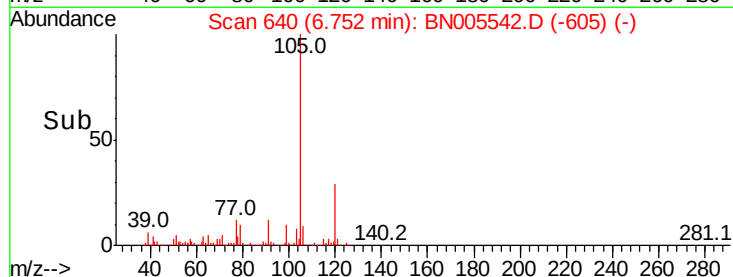
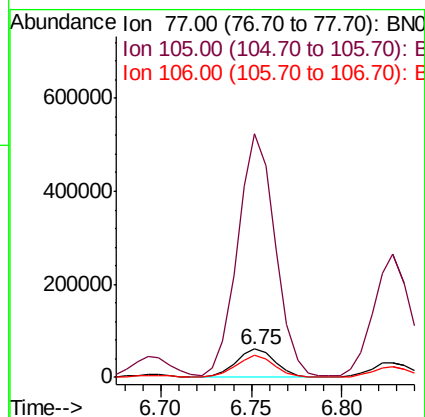
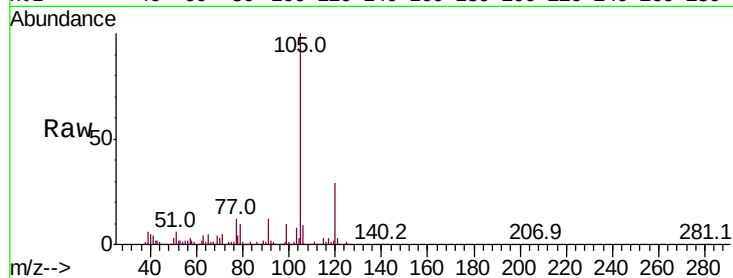
Tot Ion: 77 Resp: 91525

Ion Ratio Lower Upper

77 100

105 863.8 77.4 116.2#

106 76.8 76.3 114.5



#14

Acetophenone

Concen: 2.913 ng/ul

RT: 8.38 min Scan# 917

Delta R.T. -0.02 min

Lab File: BN005542.D

Acq: 08 May 2019 21:08

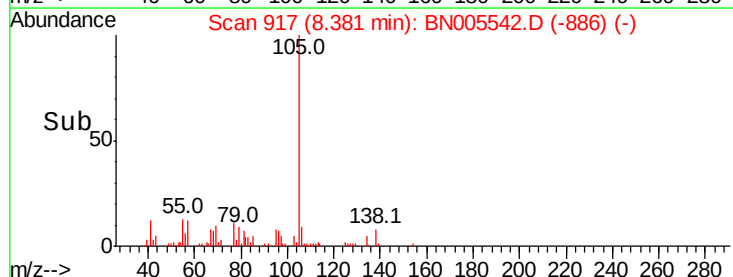
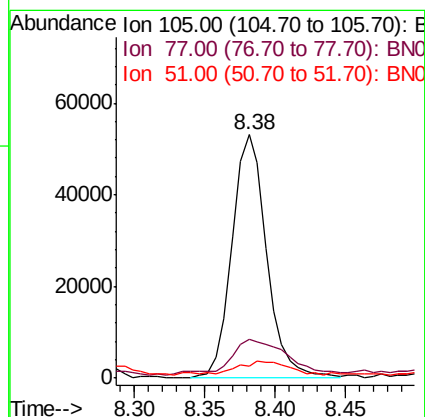
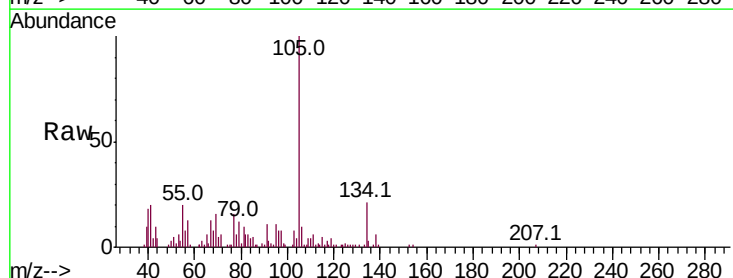
Tgt Ion: 105 Resp: 91073

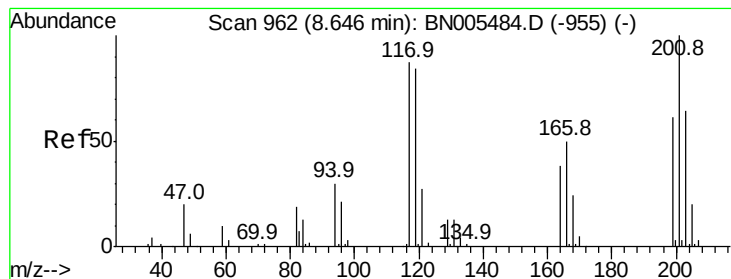
Ion Ratio Lower Upper

105 100

77 16.1 63.4 95.0#

51 5.1 24.2 36.4#





#17

Hexachloroethane

Concen: 26.801 ng/ul

RT: 8.68 min Scan# 967

Delta R.T. 0.03 min

Lab File: BN005542.D

Acq: 08 May 2019 21:08

Instrument :

BNA_N

ClientSampleId :

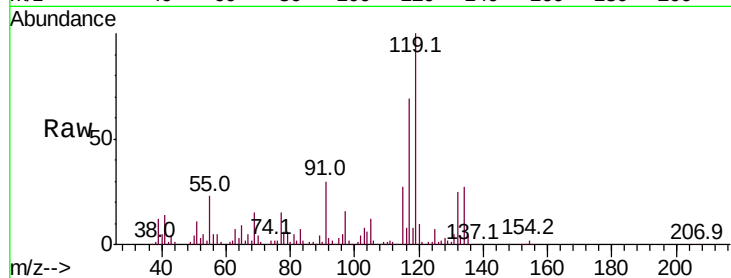
Tot Ion:117 Resp: 230143

Ion Ratio Lower Upper

117 100

201 0.0 84.1 126.1#

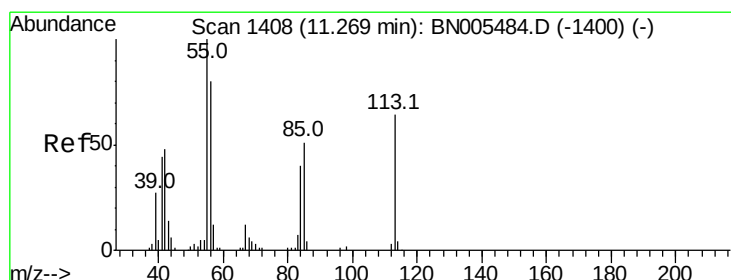
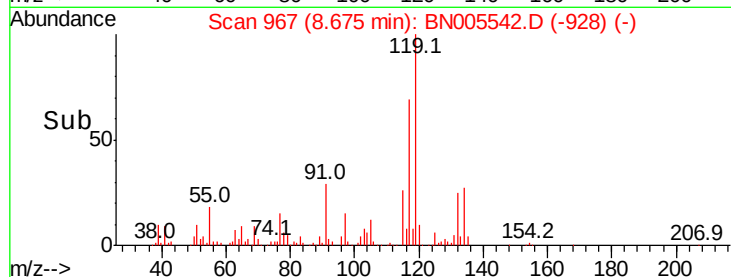
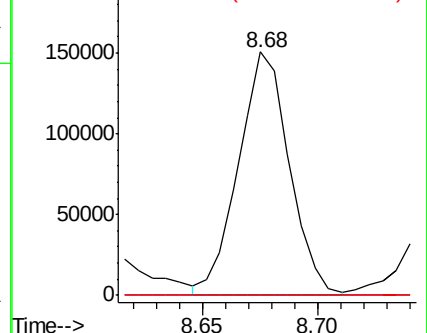
199 0.0 51.2 76.8#



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



#32

Caprolactam

Concen: 3.776 ng/ul

RT: 11.28 min Scan# 1410

Delta R.T. 0.01 min

Lab File: BN005542.D

Acq: 08 May 2019 21:08

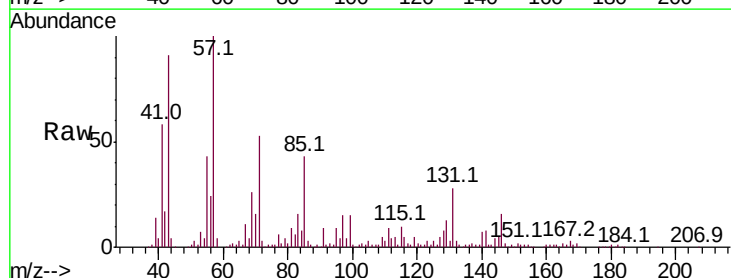
Tgt Ion:113 Resp: 21325

Ion Ratio Lower Upper

113 100

55 784.6 157.0 235.4#

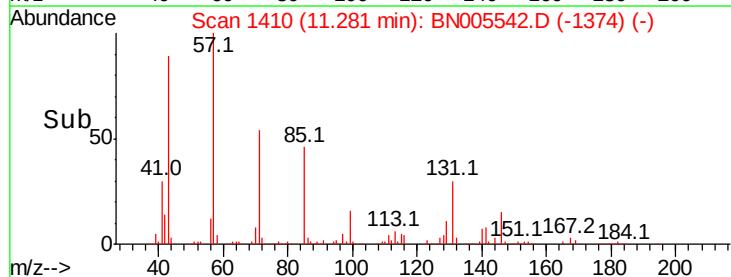
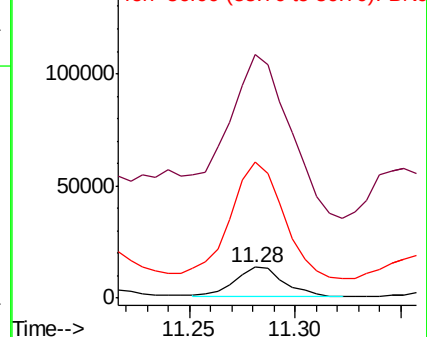
56 438.8 119.1 178.7#

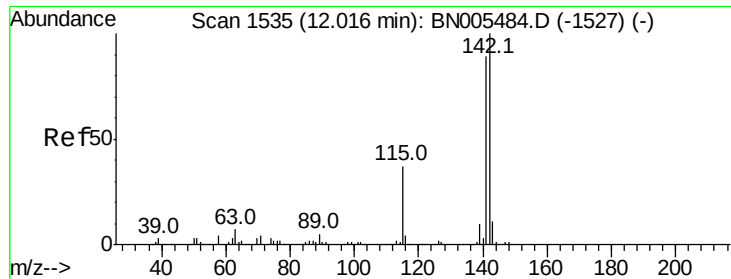


Abundance Ion 113.00 (112.70 to 113.70): E

Ion 55.00 (54.70 to 55.70): BNC

Ion 56.00 (55.70 to 56.70): BNC





#34

2-Methylnaphthalene

Concen: 414.841 ng/ul

RT: 12.05 min Scan# 1540

Delta R.T. 0.03 min

Lab File: BN005542.D

Acq: 08 May 2019 21:08

Instrument :

BNA_N

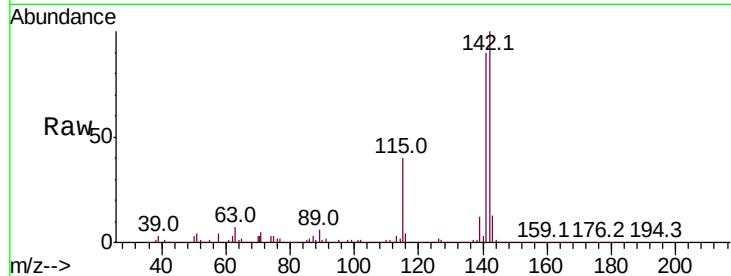
ClientSampled :

Tot Ion:142 Resp:18670283

Ion Ratio Lower Upper

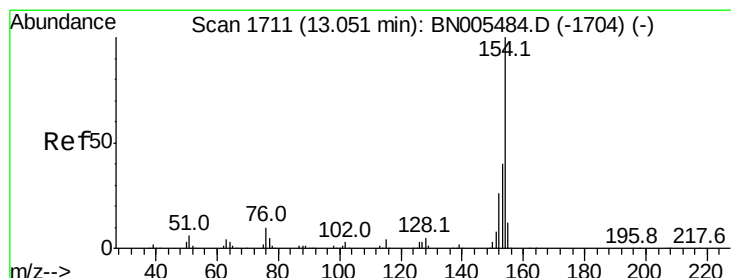
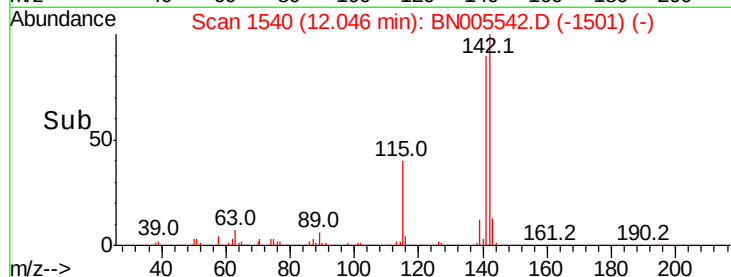
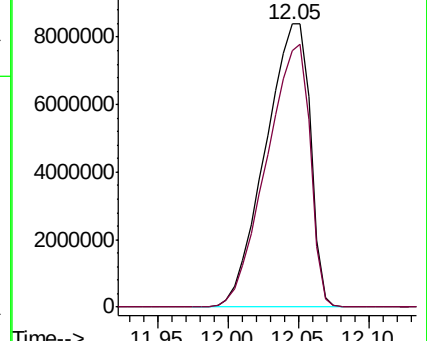
142 100

141 90.4 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: 29.235 ng/ul

RT: 13.05 min Scan# 1711

Delta R.T. 0.00 min

Lab File: BN005542.D

Acq: 08 May 2019 21:08

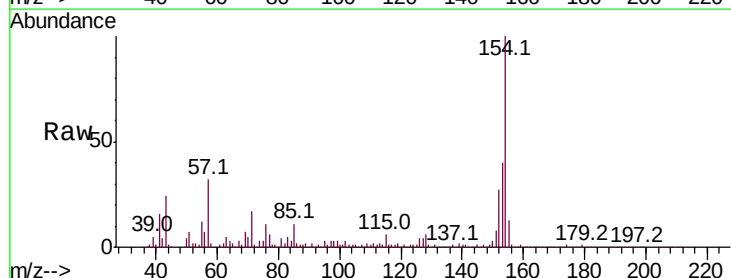
Tgt Ion:154 Resp: 1925373

Ion Ratio Lower Upper

154 100

153 39.8 32.6 49.0

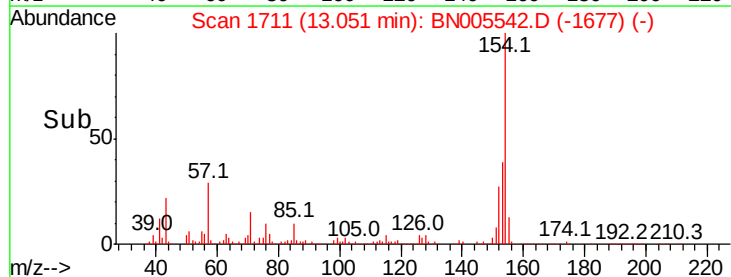
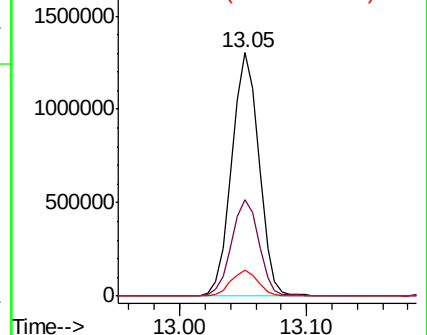
76 10.5 10.4 15.6

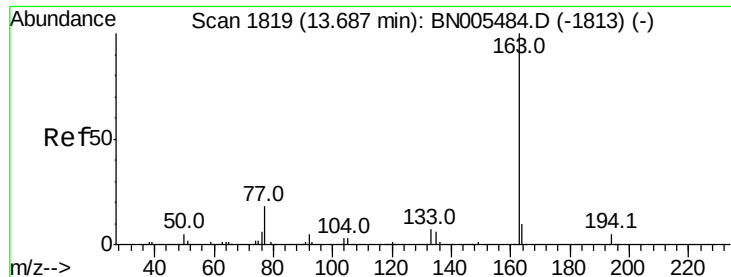


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BNC





#44

Dimethylphthalate

Concen: 4.947 ng/ul

RT: 13.69 min Scan# 1820

Delta R.T. 0.01 min

Lab File: BN005542.D

Acq: 08 May 2019 21:08

Instrument :

BNA_N

ClientSampleId :

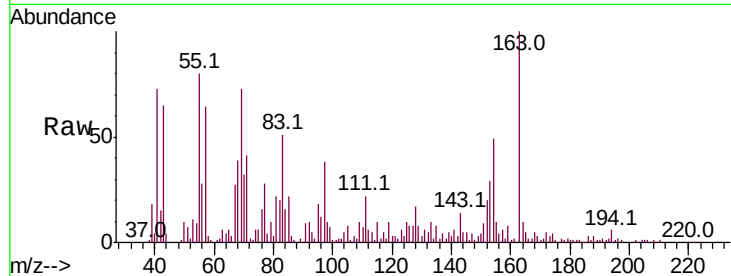
Tot Ion:163 Resp: 316262

Ion Ratio Lower Upper

163 100

194 6.0 3.4 5.0#

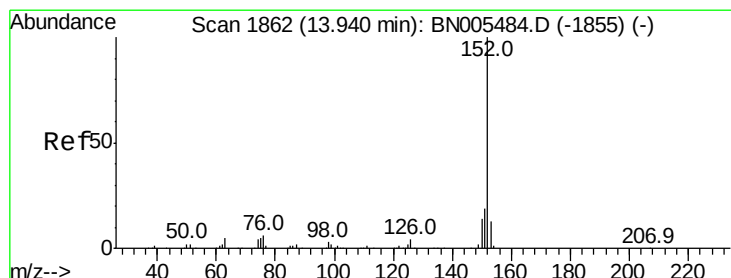
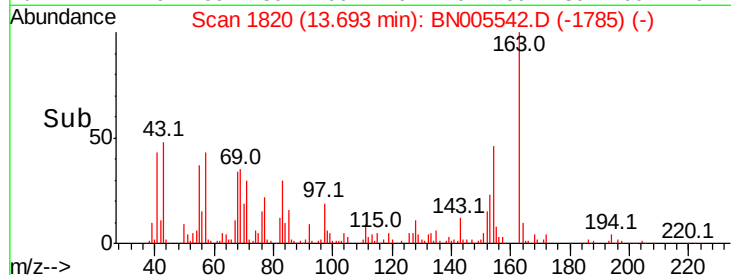
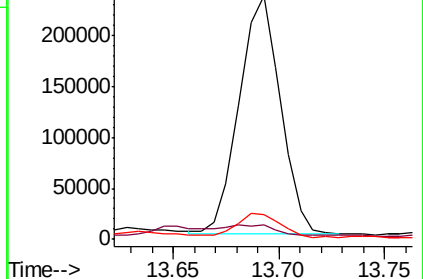
164 10.4 8.1 12.1



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#47

Acenaphthylene

Concen: 100.042 ng/ul

RT: 13.95 min Scan# 1864

Delta R.T. 0.01 min

Lab File: BN005542.D

Acq: 08 May 2019 21:08

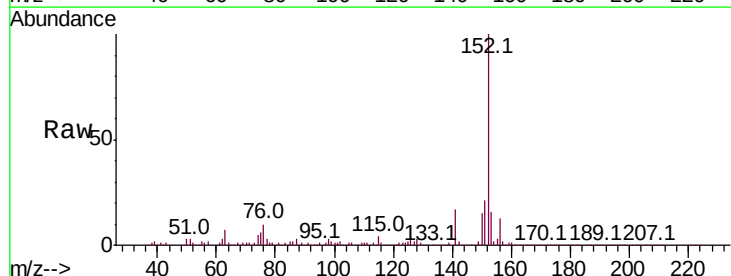
Tgt Ion:152 Resp: 7748057

Ion Ratio Lower Upper

152 100

151 20.8 15.8 23.8

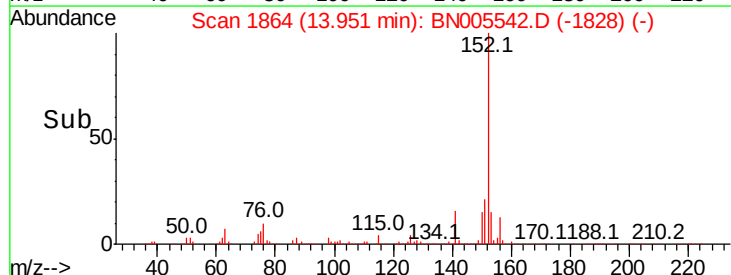
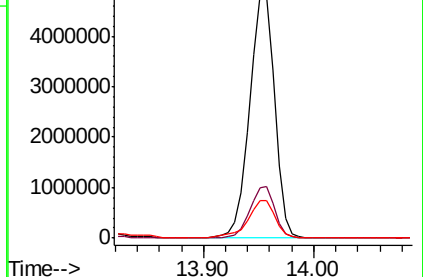
153 15.6 9.8 14.8#

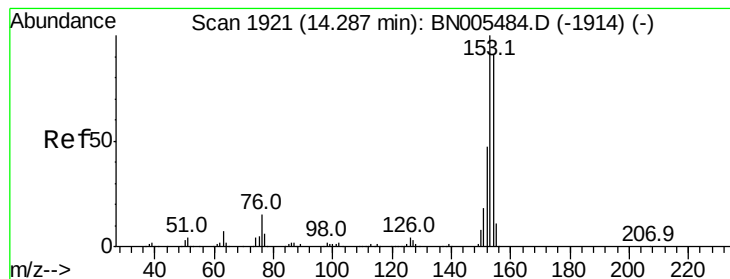


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#49

Acenaphthene

Concen: 18.724 ng/ul

RT: 14.29 min Scan# 1922

Delta R.T. 0.01 min

Lab File: BN005542.D

Acq: 08 May 2019 21:08

Instrument :

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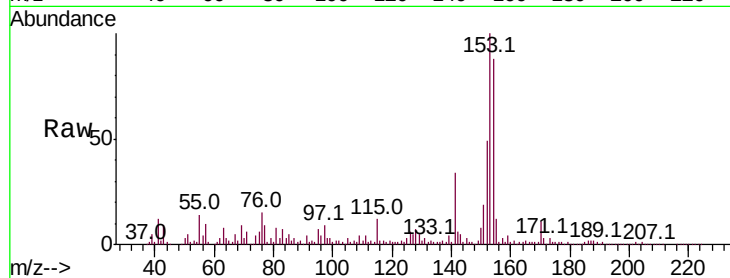
Tot Ion:153 Resp: 990002

Ion Ratio Lower Upper

153 100

152 48.6 37.4 56.0

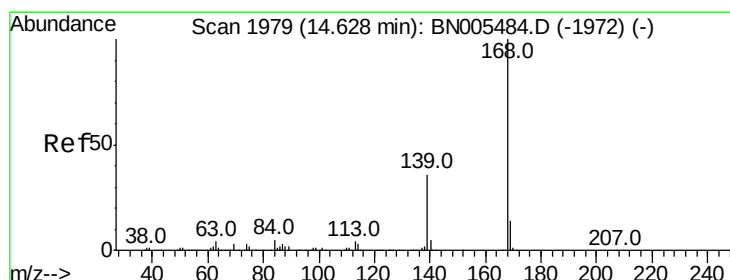
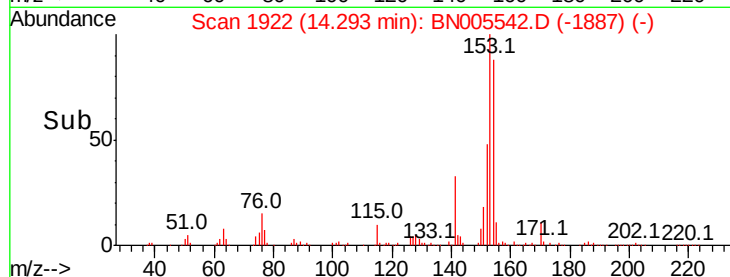
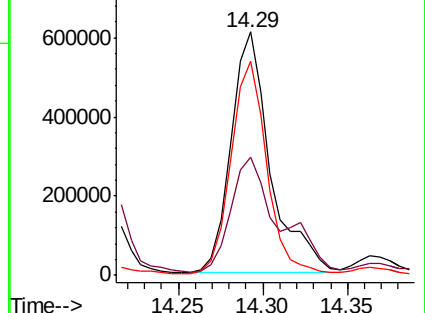
154 87.8 71.2 106.8



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: 13.197 ng/ul

RT: 14.63 min Scan# 1979

Delta R.T. 0.00 min

Lab File: BN005542.D

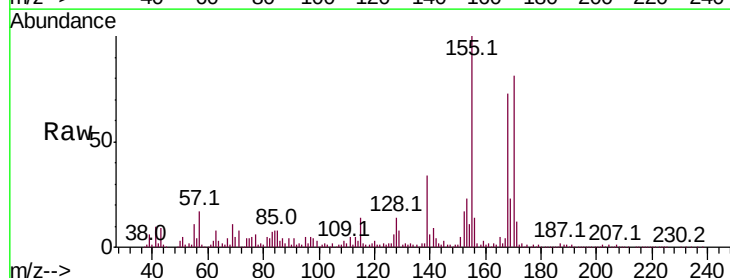
Acq: 08 May 2019 21:08

Tgt Ion:168 Resp: 1004644

Ion Ratio Lower Upper

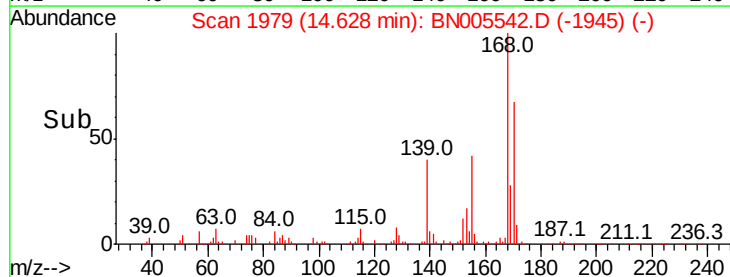
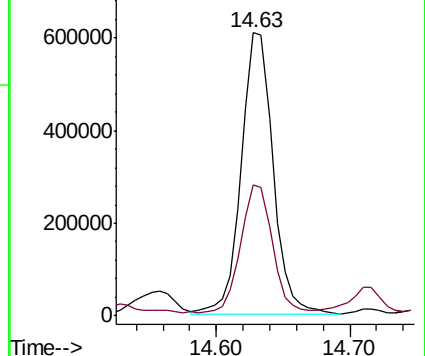
168 100

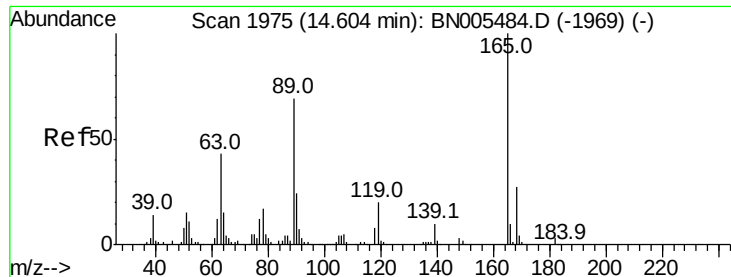
139 46.3 30.9 46.3



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E





#54

2,4-Dinitrotoluene

Concen: 3.173 ng/ul

RT: 14.60 min Scan# 1974

Delta R.T. -0.01 min

Lab File: BN005542.D

Acq: 08 May 2019 21:08

Instrument :

BNA_N

ClientSampled :

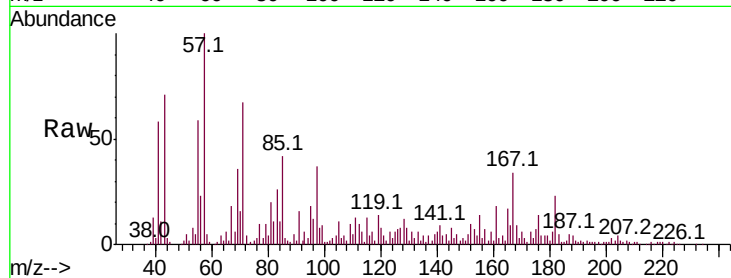
Tot Ion:165 Resp: 50502

Ion Ratio Lower Upper

165 100

63 25.5 38.9 58.3#

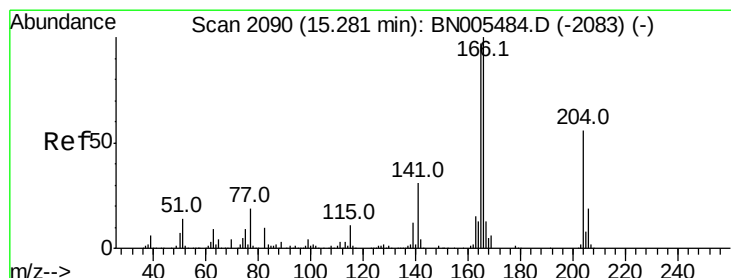
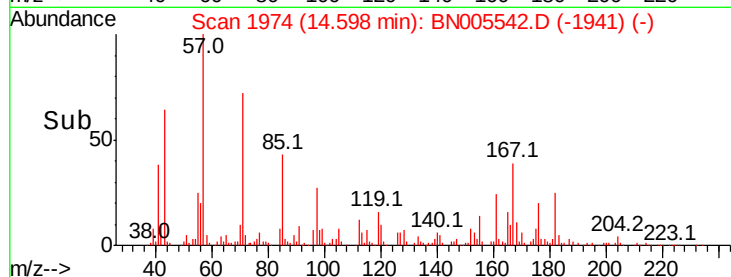
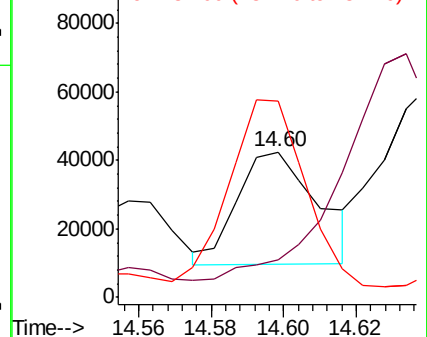
182 135.1 2.6 3.8#



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: 81.109 ng/ul

RT: 15.29 min Scan# 2092

Delta R.T. 0.01 min

Lab File: BN005542.D

Acq: 08 May 2019 21:08

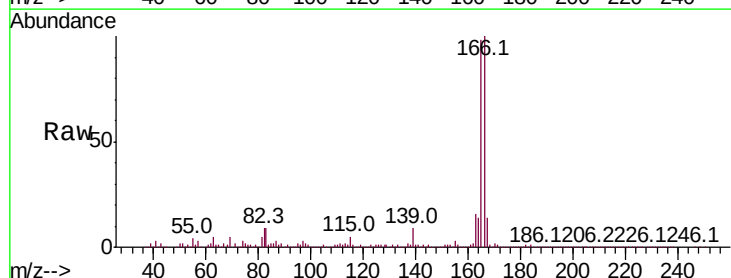
Tgt Ion:166 Resp: 4817995

Ion Ratio Lower Upper

166 100

165 98.2 80.0 120.0

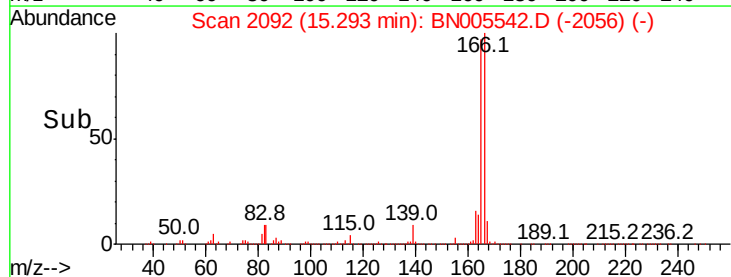
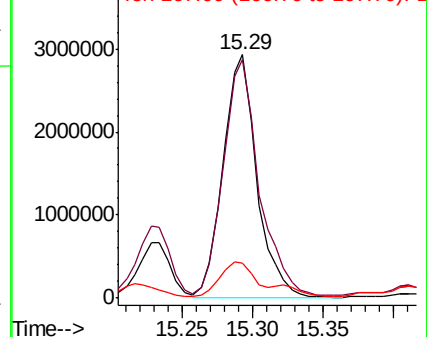
167 14.5 10.7 16.1

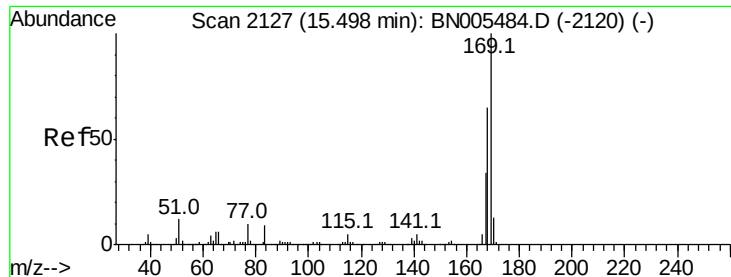


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



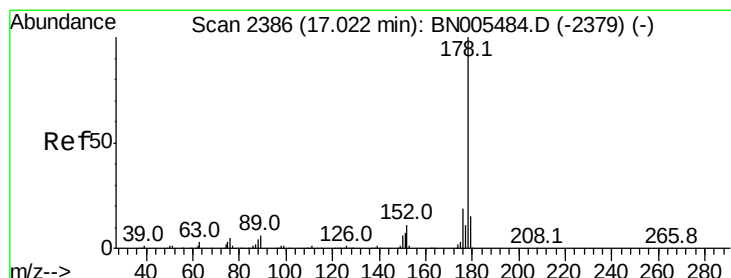
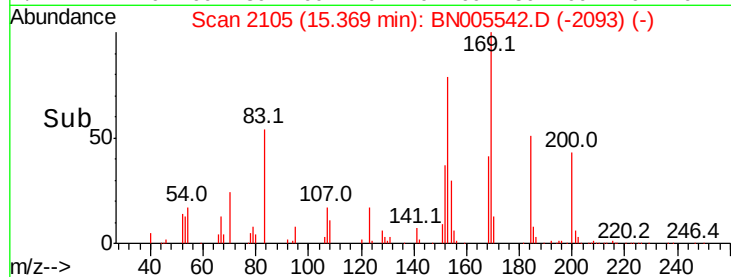
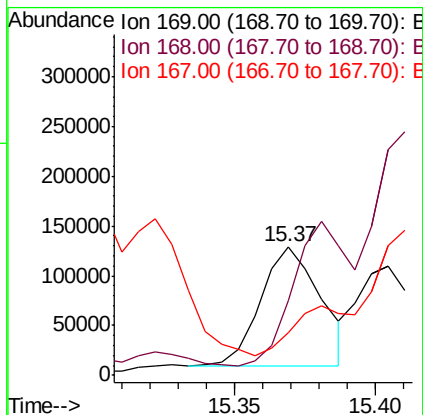
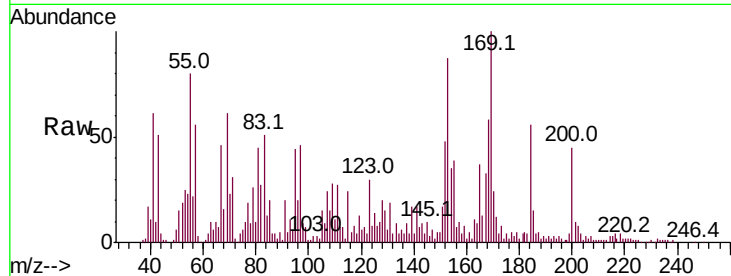


#64

N-Nitrosodiphenylamine
 Concen: 3.277 ng/ul
 RT: 15.37 min Scan# 2105
 Delta R.T. -0.13 min
 Lab File: BN005542.D
 Acq: 08 May 2019 21:08

Instrument :
 BNA_N
 ClientSampled :

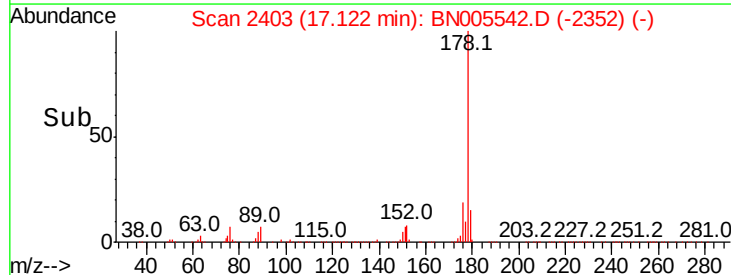
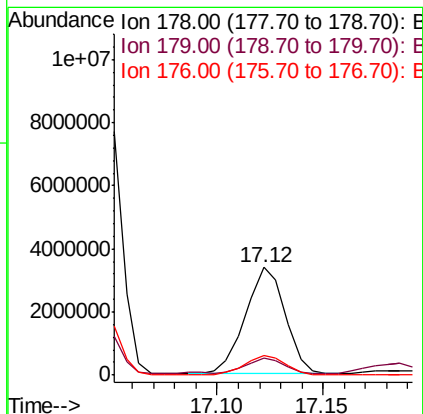
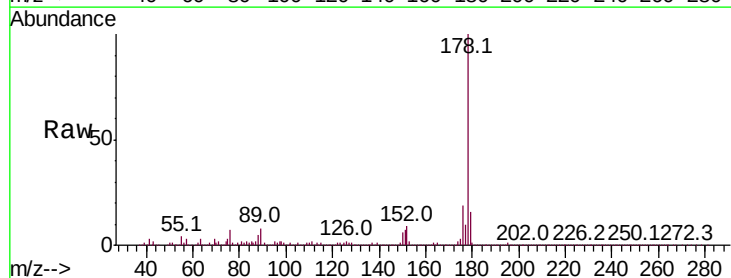
Tot Ion:169 Resp: 175258
 Ion Ratio Lower Upper
 169 100
 168 58.2 52.2 78.2
 167 33.2 27.7 41.5

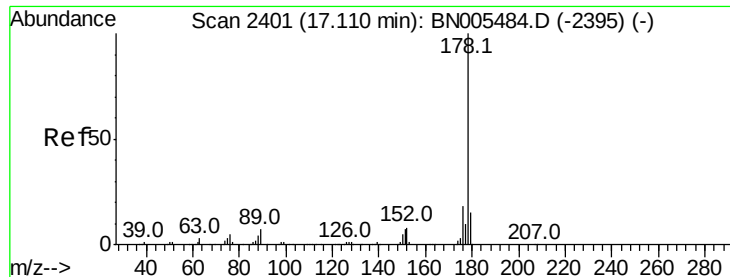


#69

Phenanthrene
 Concen: 46.358 ng/ul
 RT: 17.12 min Scan# 2403
 Delta R.T. 0.10 min
 Lab File: BN005542.D
 Acq: 08 May 2019 21:08

Tgt Ion:178 Resp: 4411128
 Ion Ratio Lower Upper
 178 100
 179 15.9 12.2 18.4
 176 18.7 15.1 22.7



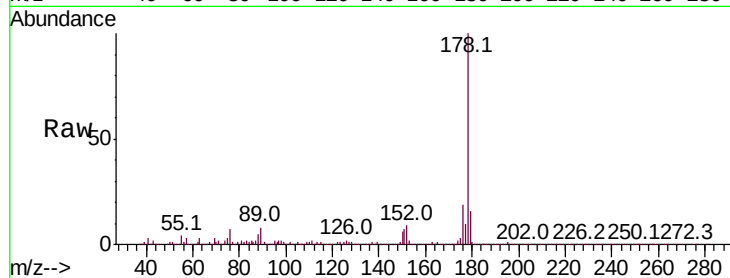


#71
 Anthracene
 Concen: 45.507 ng/ul
 RT: 17.12 min Scan# 2403
 Delta R.T. 0.01 min
 Lab File: BN005542.D
 Acq: 08 May 2019 21:08

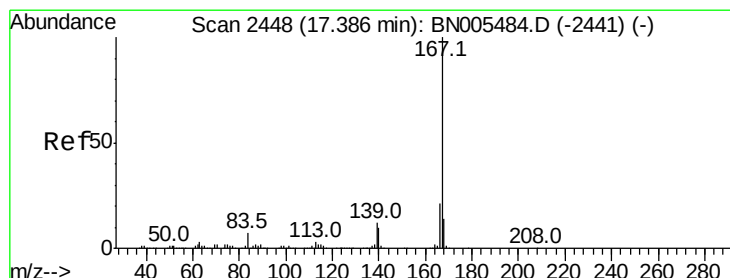
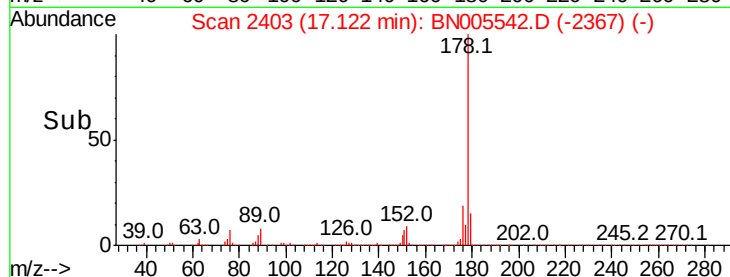
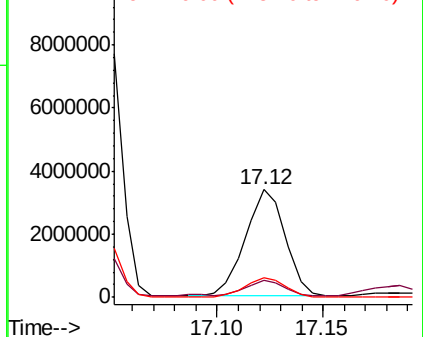
Instrument :
 BNA_N
 ClientSampled :

Tot Ion:178 Resp: 4411128

Ion	Ratio	Lower	Upper
178	100		
179	15.9	12.3	18.5
176	18.7	15.1	22.7



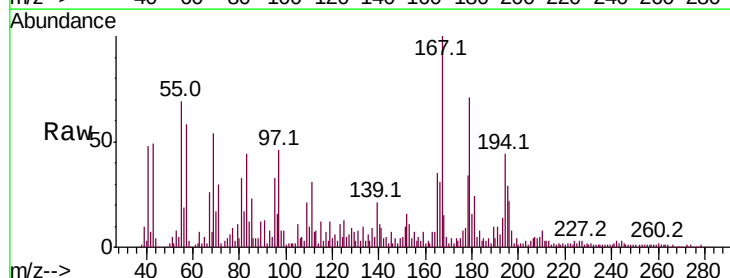
Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 179.00 (178.70 to 179.70): E
 Ion 176.00 (175.70 to 176.70): E



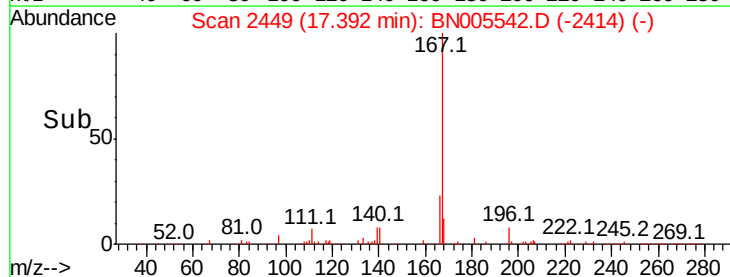
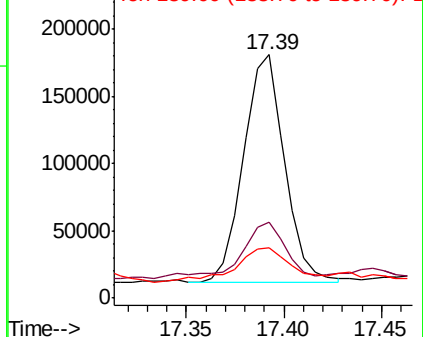
#74
 Carbazole
 Concen: 2.969 ng/ul
 RT: 17.39 min Scan# 2449
 Delta R.T. 0.01 min
 Lab File: BN005542.D
 Acq: 08 May 2019 21:08

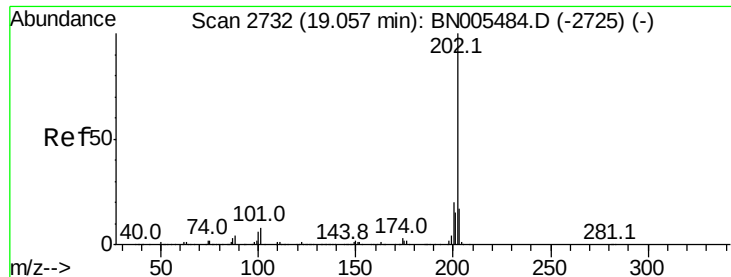
Tgt Ion:167 Resp: 247225

Ion	Ratio	Lower	Upper
167	100		
166	31.1	17.2	25.8#
139	20.8	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



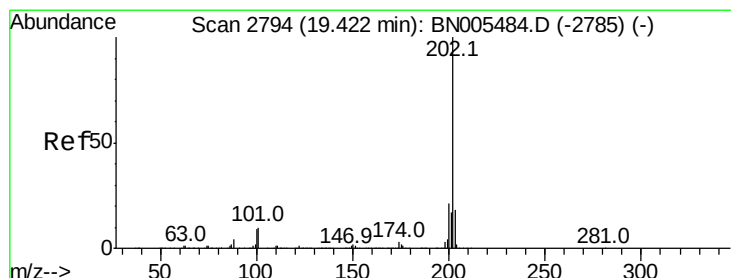
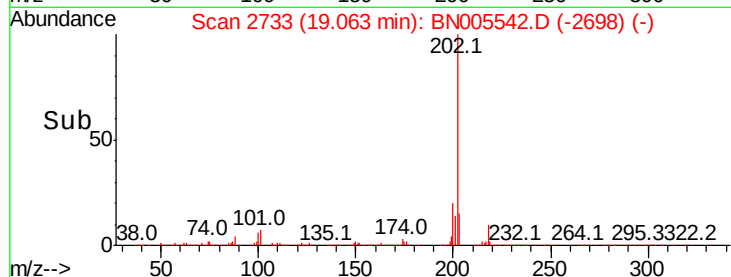
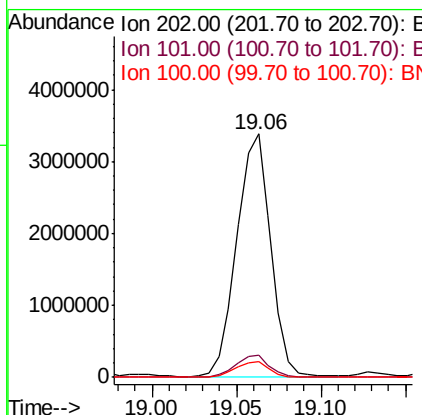
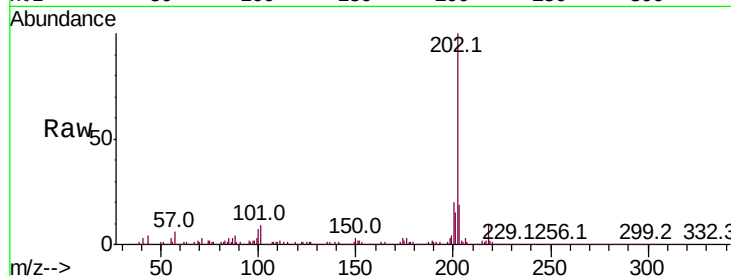


#76
 Fluoranthene
 Concen: 44.563 ng/ul
 RT: 19.06 min Scan# 2733
 Delta R.T. 0.01 min
 Lab File: BN005542.D
 Acq: 08 May 2019 21:08

Instrument :
 BNA_N
 ClientSampleId :

Tot Ion:202 Resp: 4703385

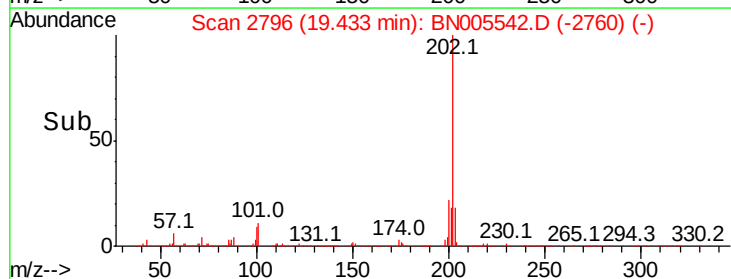
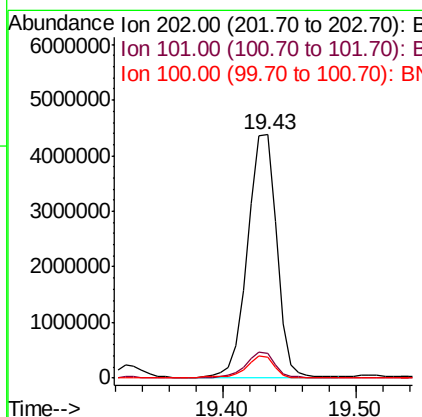
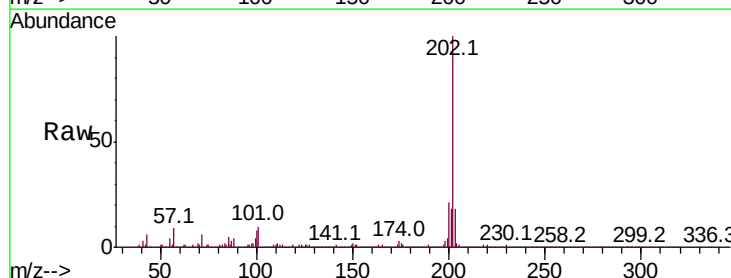
Ion	Ratio	Lower	Upper
202	100		
101	8.9	8.6	12.8
100	6.6	6.3	9.5

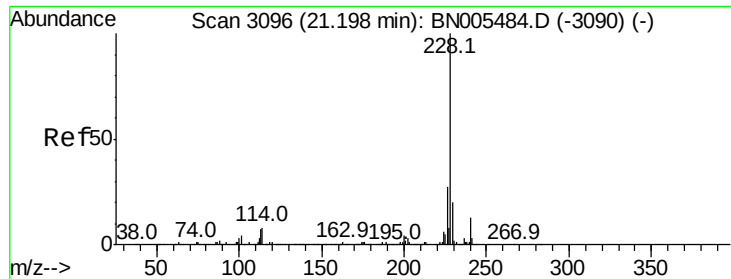


#79
 Pyrene
 Concen: 64.509 ng/ul
 RT: 19.43 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: BN005542.D
 Acq: 08 May 2019 21:08

Tgt Ion:202 Resp: 6510309

Ion	Ratio	Lower	Upper
202	100		
101	10.2	10.3	15.5#
100	8.4	7.9	11.9





#82

Benzo(a)anthracene

Concen: 17.896 ng/ul

RT: 21.25 min Scan# 3104

Delta R.T. 0.05 min

Lab File: BN005542.D

Acq: 08 May 2019 21:08

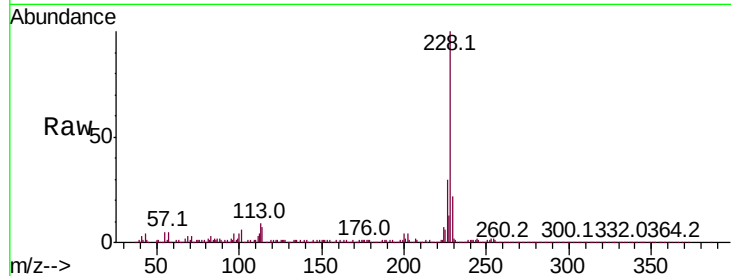
Instrument :

BNA_N

ClientSampleId :

Tot Ion:228 Resp: 1745030

Ion	Ratio	Lower	Upper
228	100		
229	21.5	15.8	23.6
226	29.6	21.4	32.2

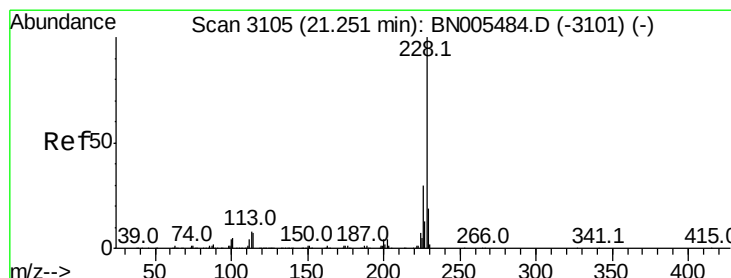
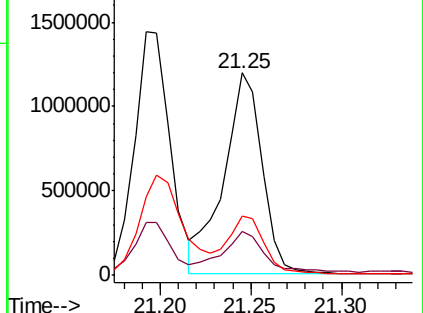
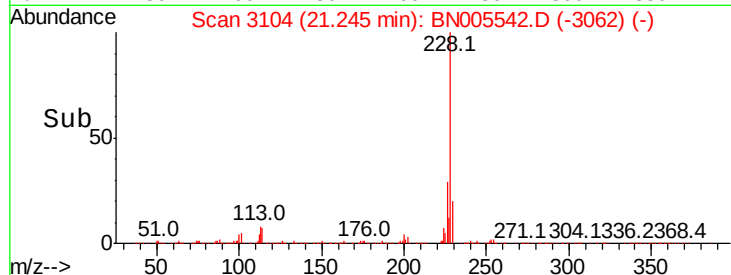


Abundance

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



#84

Chrysene

Concen: 19.325 ng/ul

RT: 21.25 min Scan# 3104

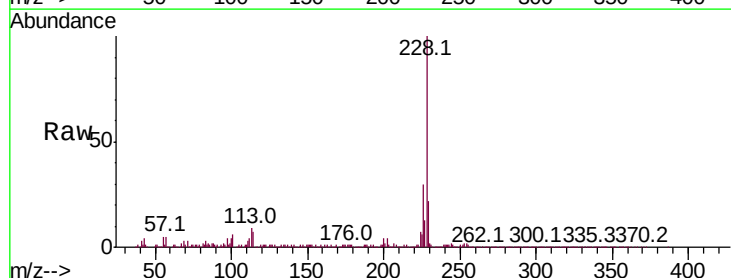
Delta R.T. -0.01 min

Lab File: BN005542.D

Acq: 08 May 2019 21:08

Tgt Ion:228 Resp: 1748872

Ion	Ratio	Lower	Upper
228	100		
226	29.6	24.0	36.0
229	21.5	15.4	23.0

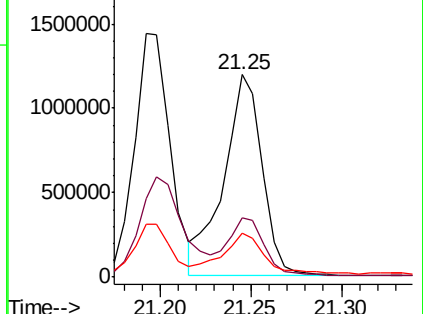
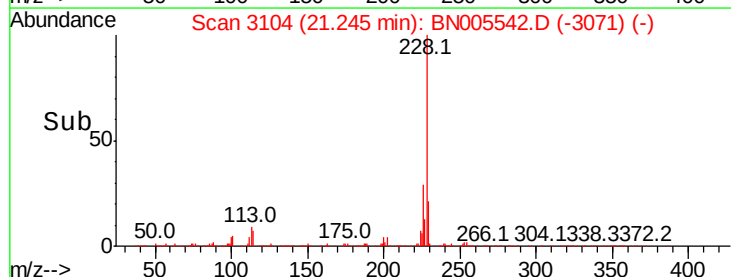


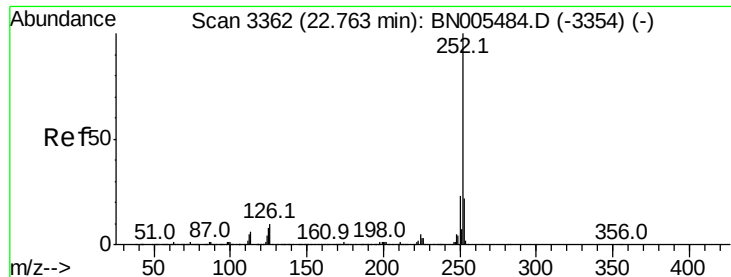
Abundance

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: 10.791 ng/ul

RT: 22.76 min Scan# 3362

Delta R.T. 0.00 min

Lab File: BN005542.D

Acq: 08 May 2019 21:08

Instrument :

BNA_N

ClientSampleId :

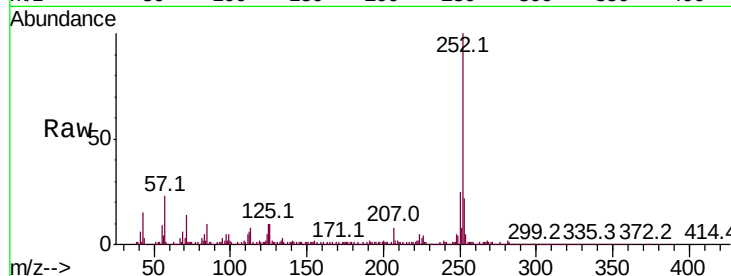
Tot Ion:252 Resp: 899913

Ion Ratio Lower Upper

252 100

253 22.4 17.7 26.5

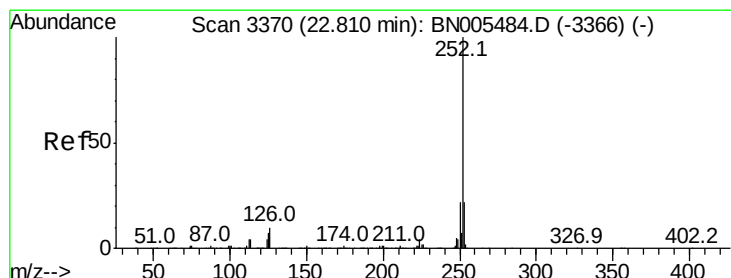
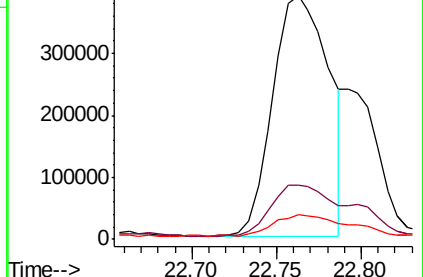
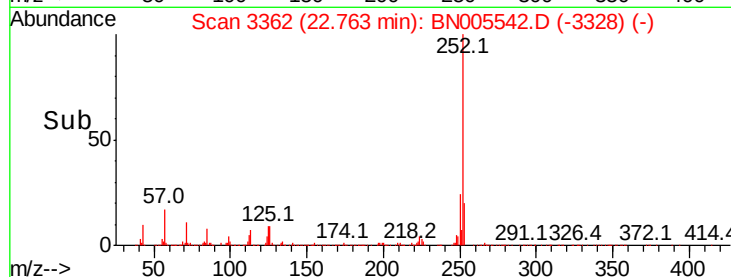
125 10.4 8.4 12.6



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: 11.299 ng/ul

RT: 22.76 min Scan# 3362

Delta R.T. -0.05 min

Lab File: BN005542.D

Acq: 08 May 2019 21:08

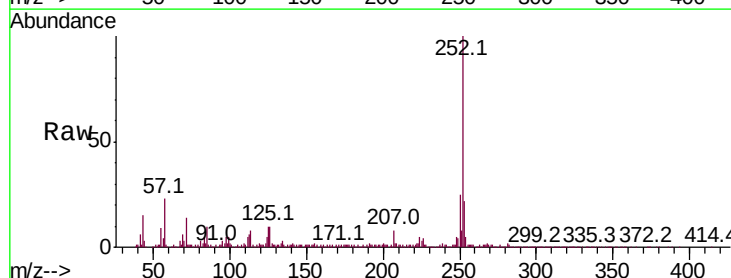
Tgt Ion:252 Resp: 899913

Ion Ratio Lower Upper

252 100

253 22.4 17.4 26.0

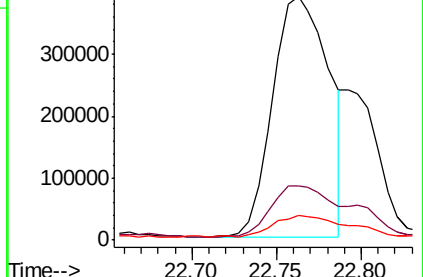
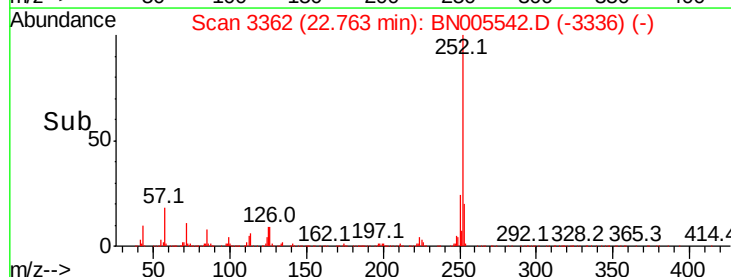
125 10.4 7.5 11.3

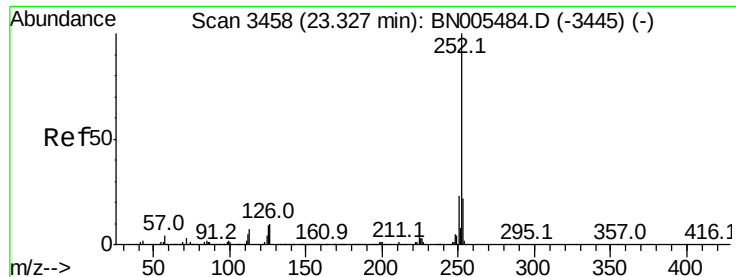


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90

Benzo(a)pyrene

Concen: 13.148 ng/ul

RT: 23.32 min Scan# 3456

Delta R.T. -0.01 min

Lab File: BN005542.D

Acq: 08 May 2019 21:08

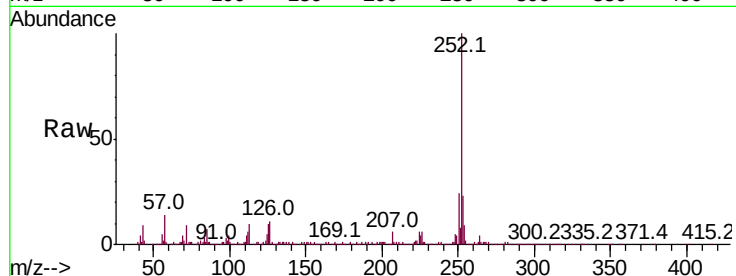
Instrument :

BNA_N

ClientSampleId :

Tot Ion:252 Resp: 1030668

Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.3	25.9
125	10.0	8.6	13.0

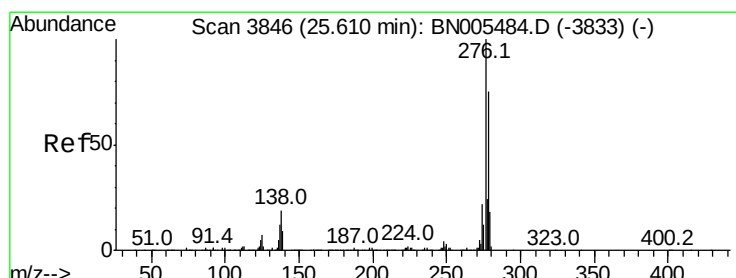
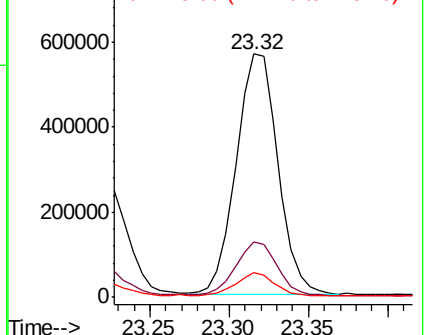
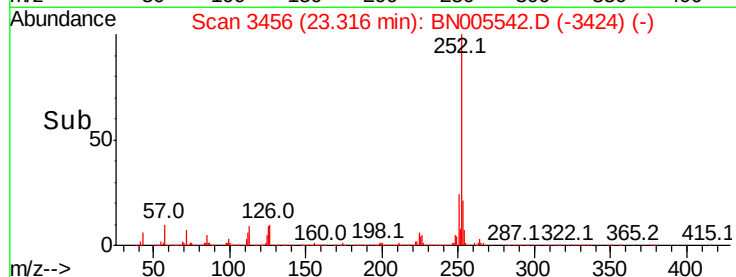


Abundance

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: 4.042 ng/ul

RT: 25.59 min Scan# 3843

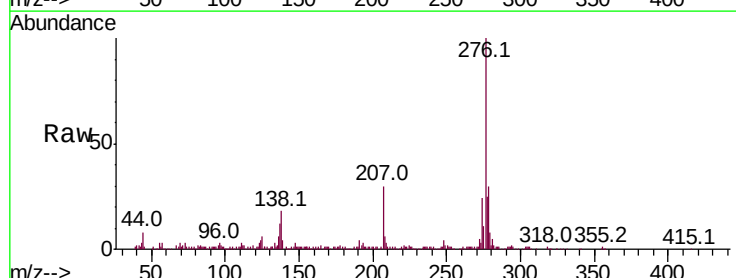
Delta R.T. -0.02 min

Lab File: BN005542.D

Acq: 08 May 2019 21:08

Tgt Ion:276 Resp: 350280

Ion	Ratio	Lower	Upper
276	100		
138	18.1	17.9	26.9
277	25.2	19.7	29.5

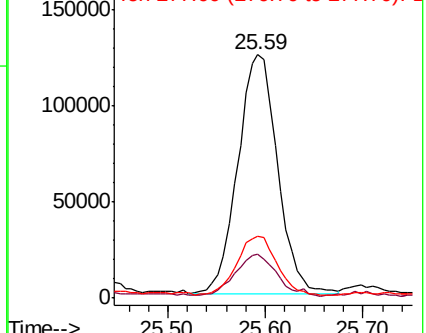
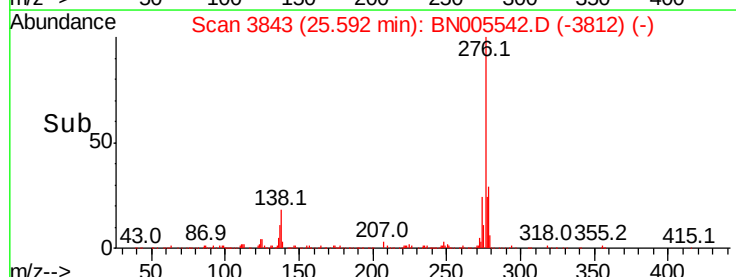


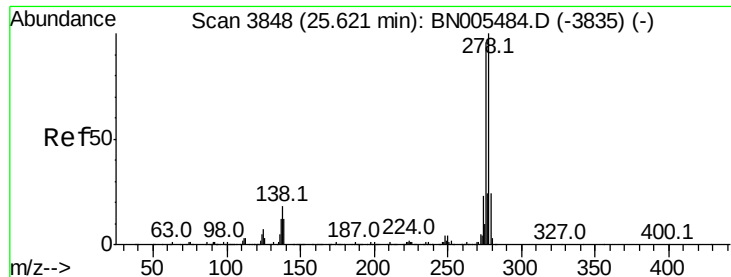
Abundance

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: 1.540 ng/ul

RT: 25.59 min Scan# 3843

Delta R.T. -0.03 min

Lab File: BN005542.D

Acq: 08 May 2019 21:08

Instrument :

BNA_N

ClientSampled :

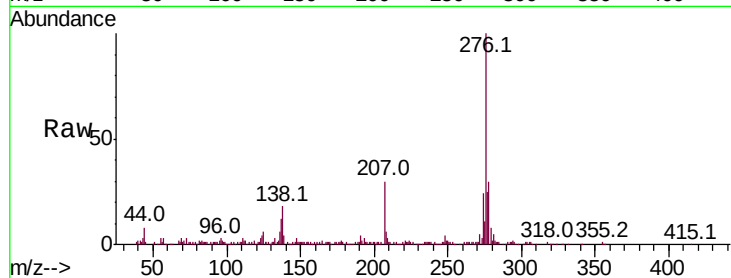
Tot Ion:278 Resp: 113291

Ion Ratio Lower Upper

278 100

139 15.0 13.1 19.7

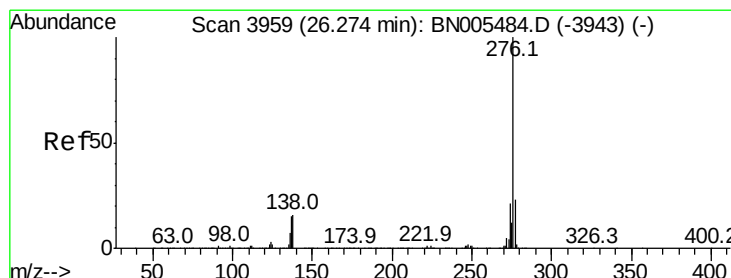
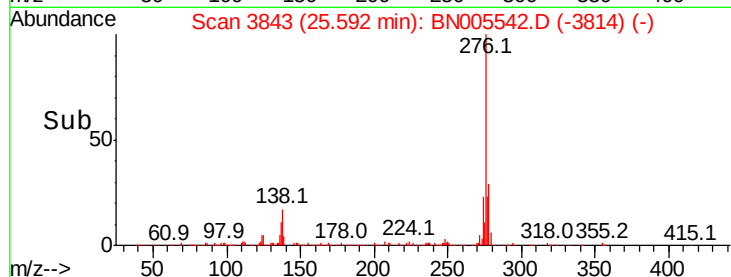
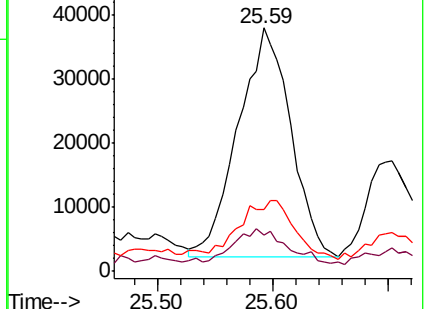
279 25.3 19.4 29.0



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(g,h,i)perylene

Concen: 3.974 ng/ul

RT: 26.25 min Scan# 3955

Delta R.T. -0.02 min

Lab File: BN005542.D

Acq: 08 May 2019 21:08

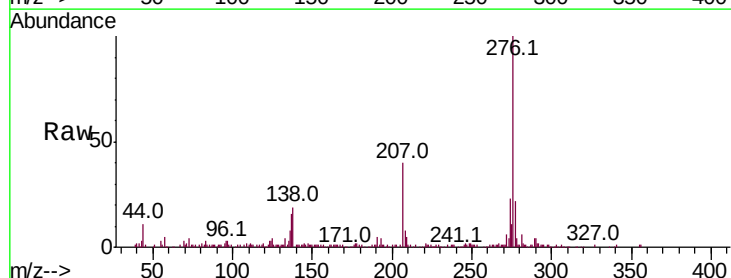
Tgt Ion:276 Resp: 284778

Ion Ratio Lower Upper

276 100

138 18.7 16.7 25.1

277 21.8 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

