

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN122118\
 Data File : BN004192.D
 Acq On : 22 Dec 2018 10:31
 Operator : JU/SJ
 Sample : J6414-08
 Misc : GC-MS Confirmation
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :

Quant Time: Dec 24 07:11:25 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Dec 24 07:07:24 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.82	152	31632	20.00	ng/ul	0.00
18) Naphthalene-d8	10.62	136	151508	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.46	164	94140	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.23	188	196885	20.00	ng/ul	0.02
77) Chrysene-d12	21.43	240	177140	20.00	ng/ul	0.03
85) Perylene-d12	23.74	264	190427	20.00	ng/ul	0.02

System Monitoring Compounds

3) 1,4-Dioxane-d8	0.00	96	0	0.00	ng/uL	
5) Phenol-d5	0.00	99	0	0.00	ng/ul	
7) Bis-(2-Chloroethyl)ether-d	0.00	67	0	0.00	ng/ul	
9) 2-Chlorophenol-d4	0.00	132	0	0.00	ng/ul	
13) 4-Methylphenol-d8	0.00	113	0	0.00	ng/ul	
19) Nitrobenzene-d5	0.00	128	0	0.00	ng/ul	
22) 2-Nitrophenol-d4	0.00	143	0	0.00	ng/ul	
26) 2,4-Dichlorophenol-d3	0.00	165	0	0.00	ng/ul	
29) 4-Chloroaniline-d4	10.72	131	1974	0.85	ng/ul	-0.05
43) Dimethylphthalate-d6	13.86	166	421	0.05	ng/ul	-0.01
46) Acenaphthylene-d8	0.00	160	0	0.00	ng/ul	
51) 4-Nitrophenol-d4	0.00	143	0	0.00	ng/ul	
57) Fluorene-d10	15.47	176	1134	0.16	ng/ul	0.01
62) 4,6-Dinitro-2-methylphenol	0.00	200	0	0.00	ng/ul	
70) Anthracene-d10	17.23	188	196885	19.79	ng/ul	-0.08
78) Pyrene-d10	19.64	212	2207	0.28	ng/ul	0.04
89) Benzo(a)pyrene-d12	23.63	264	2942	0.28	ng/ul	0.06

Target Compounds

					Ovalue	
28) Naphthalene	10.67	128	735755	90.512	ng/ul	100
30) 4-Chloroaniline	10.67	127	97726	41.246	ng/ul#	10
34) 2-Methylnaphthalene	12.28	142	368251	60.151	ng/ul	96
40) 1,1'-Biphenyl	13.29	154	159701	20.867	ng/ul	100
47) Acenaphthylene	14.19	152	10797	1.137	ng/ul#	48
49) Acenaphthene	14.54	153	1363770	201.639	ng/ul	100
52) 4-Nitrophenol	14.54	109	2387	2.176	ng/ul#	1
53) Dibenzofuran	14.87	168	1314013	136.869	ng/ul	99
54) 2,4-Dinitrotoluene	14.86	165	2834	1.094	ng/ul#	1
58) Fluorene	15.53	166	1754171	219.445	ng/ul	100
60) 4-Nitroaniline	15.53	138	19996	9.501	ng/ul#	24
64) N-Nitrosodiphenylamine	15.72	169	13912	2.335	ng/ul#	1
69) Phenanthrene	17.30	178	7140562	627.699	ng/ul	97
71) Anthracene	17.38	178	2632629	225.765	ng/ul	98
74) Carbazole	17.63	167	13722	1.281	ng/ul#	50
76) Fluoranthene	19.32	202	8003359	573.978	ng/ul	99
79) Pyrene	19.69	202	6159472	622.405	ng/ul	98
82) Benzo(a)anthracene	21.42	228	3949320	357.532	ng/ul	95
84) Chrysene	21.47	228	3303815	319.320	ng/ul	96
87) Benzo(b)fluoranthene	23.06	252	2176811	190.829	ng/ul	98
88) Benzo(k)fluoranthene	23.09	252	1076895	100.822	ng/ul	98
90) Benzo(a)pyrene	23.64	252	245623	22.358	ng/ul	98
91) Indeno(1,2,3-cd)pyrene	26.11	276	368089	25.705	ng/ul	98

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BNA_N
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Quant Time: Dec 24 07:11:25 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN121218MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Dec 24 07:07:24 2018
Response via : Initial Calibration

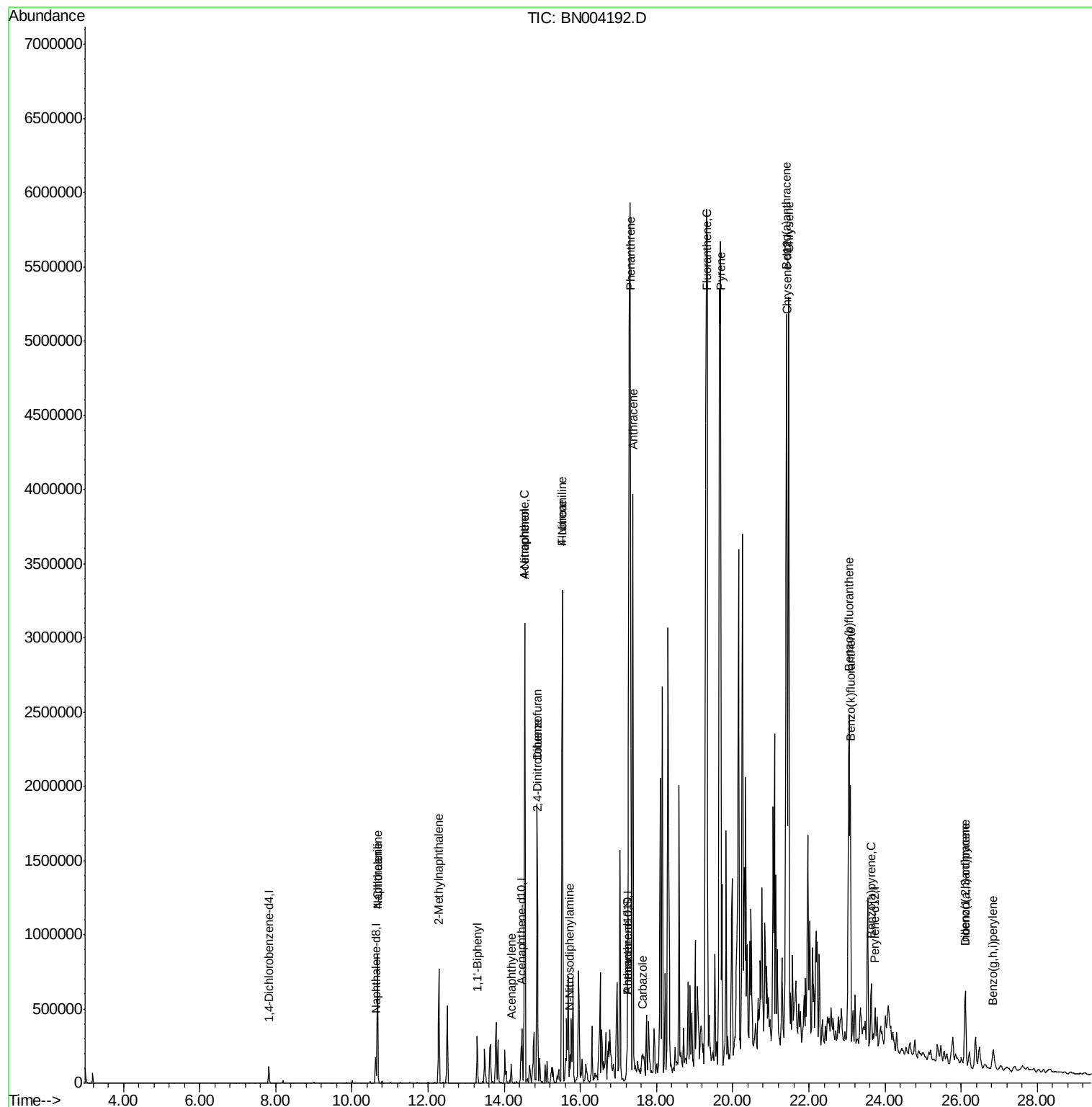
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) Dibenzo(a,h)anthracene	26.11	278	223765	18.798	ng/ul	96
93) Benzo(q,h,i)perylene	26.83	276	132388	11.045	ng/ul	98

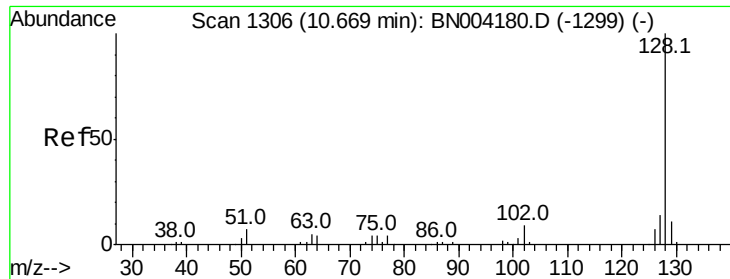
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Dec 24 07:07:24 2018
Response via : Initial Calibration





#28

Naphthalene

Concen: 90.512 ng/ul

RT: 10.67 min Scan# 1307

Delta R.T. 0.01 min

Lab File: BN004192.D

Acq: 22 Dec 2018 10:31

Instrument :

BNA_N

ClientSampled :

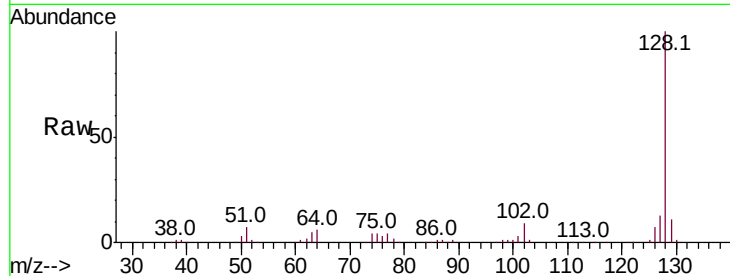
Tot Ion:128 Resp: 735755

Ion Ratio Lower Upper

128 100

129 11.0 8.6 12.8

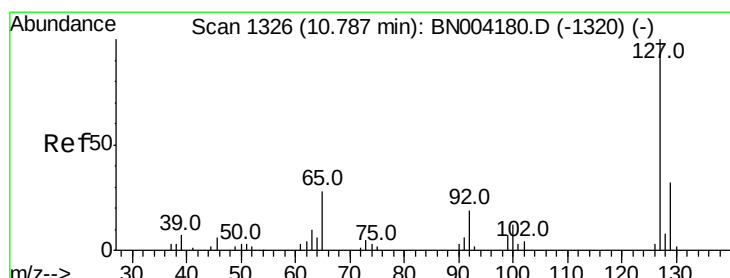
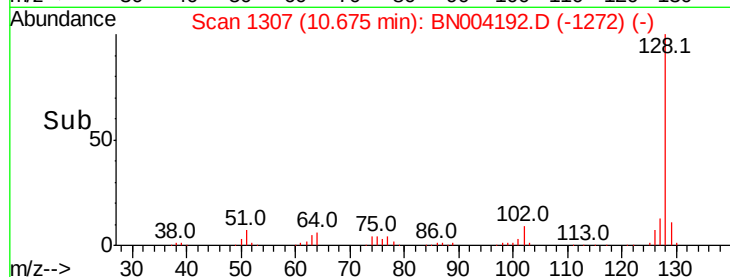
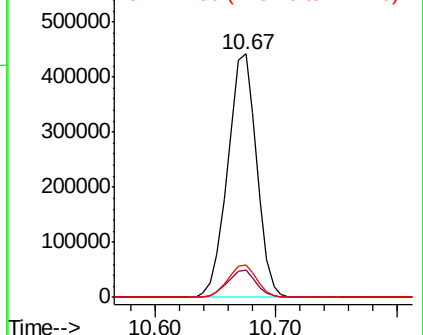
127 13.4 10.6 16.0



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: 41.246 ng/ul

RT: 10.67 min Scan# 1307

Delta R.T. -0.11 min

Lab File: BN004192.D

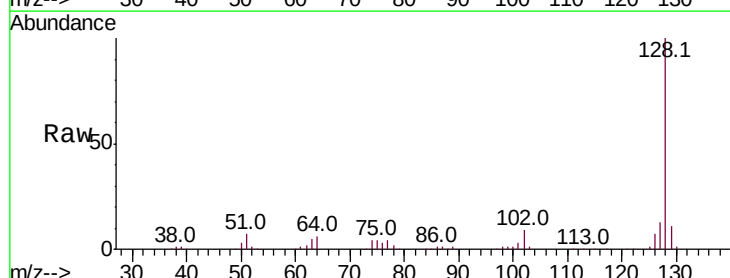
Acq: 22 Dec 2018 10:31

Tgt Ion:127 Resp: 97726

Ion Ratio Lower Upper

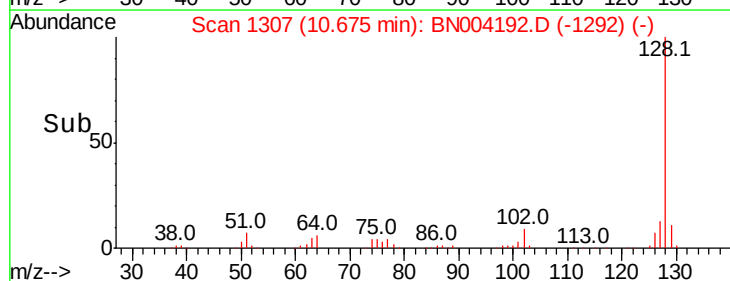
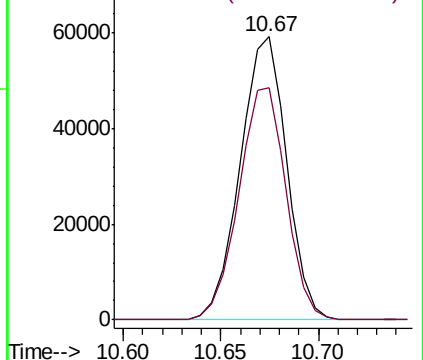
127 100

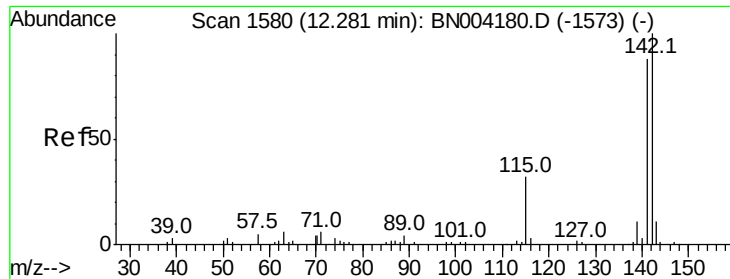
129 82.0 25.5 38.3#



Abundance Ion 127.00 (126.70 to 127.70): E

Ion 129.00 (128.70 to 129.70): E

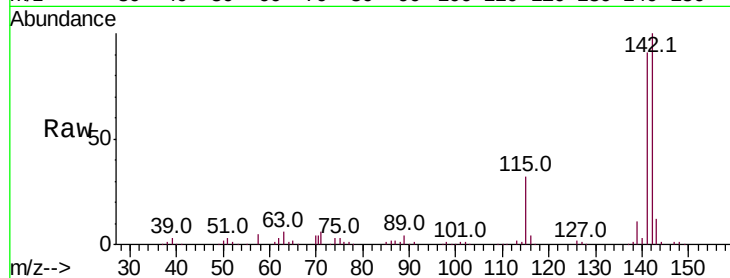




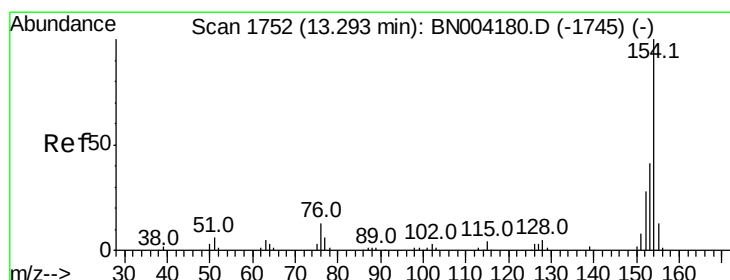
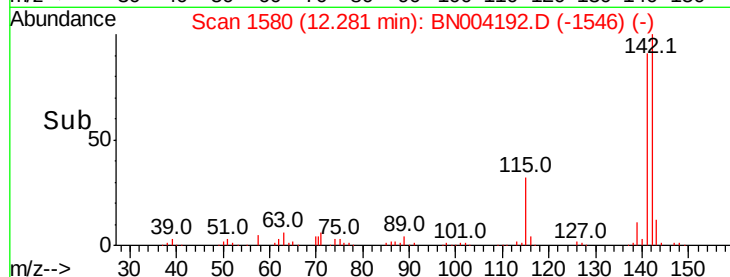
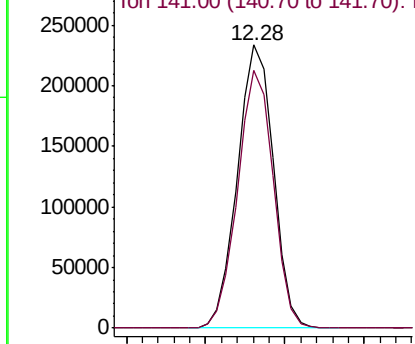
#34
 2-Methylnaphthalene
 Concen: 60.151 ng/ul
 RT: 12.28 min Scan# 1580
 Delta R.T. -0.00 min
 Lab File: BN004192.D
 Acq: 22 Dec 2018 10:31

Instrument :
 BNA_N
 ClientSampleId :

Tot Ion:142 Resp: 368251
 Ion Ratio Lower Upper
 142 100
 141 91.0 70.2 105.2

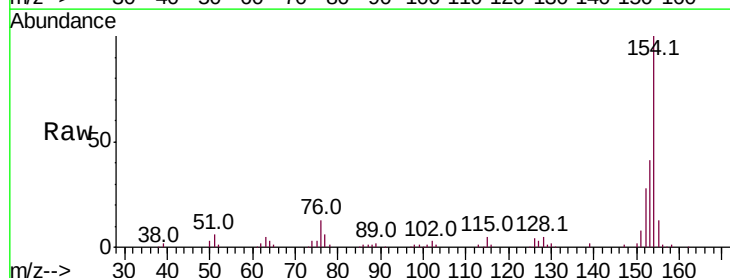


Abundance Ion 142.00 (141.70 to 142.70): E
 Ion 141.00 (140.70 to 141.70): E

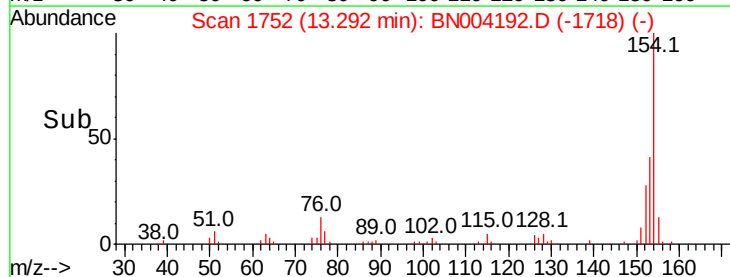
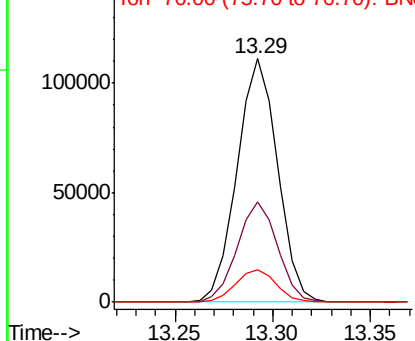


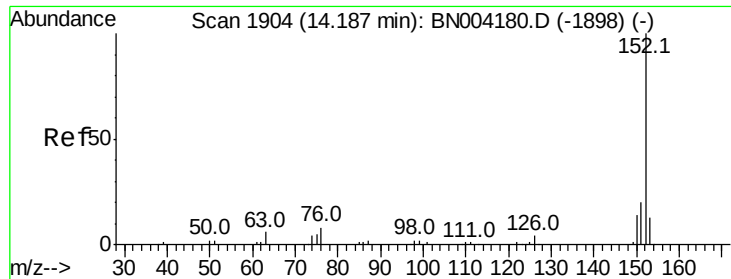
#40
 1,1'-Biphenyl
 Concen: 20.867 ng/ul
 RT: 13.29 min Scan# 1752
 Delta R.T. -0.00 min
 Lab File: BN004192.D
 Acq: 22 Dec 2018 10:31

Tgt Ion:154 Resp: 159701
 Ion Ratio Lower Upper
 154 100
 153 41.4 33.1 49.7
 76 13.2 10.6 16.0



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: 1.137 ng/ul

RT: 14.19 min Scan# 1904

Delta R.T. -0.00 min

Lab File: BN004192.D

Acq: 22 Dec 2018 10:31

Instrument :

BNA_N

ClientSampled :

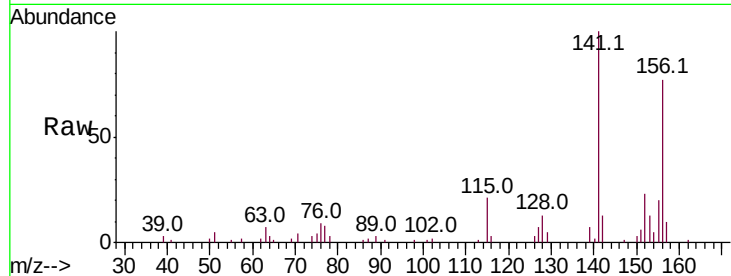
Tot Ion:152 Resp: 10797

Ion Ratio Lower Upper

152 100

151 27.0 16.2 24.2#

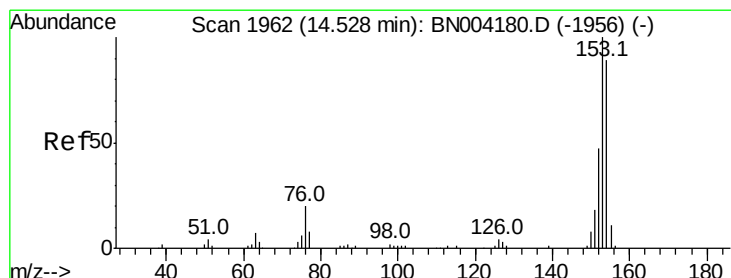
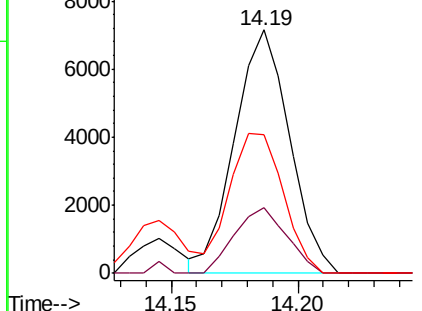
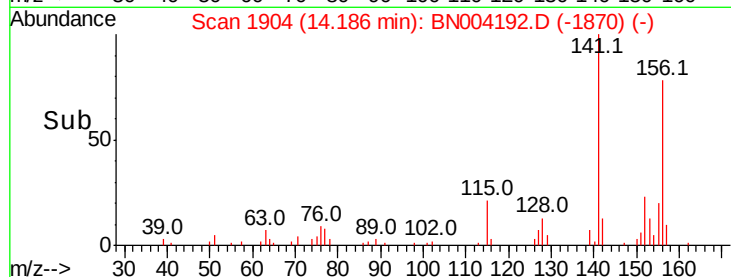
153 57.0 10.6 15.8#



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: 201.639 ng/ul

RT: 14.54 min Scan# 1964

Delta R.T. 0.01 min

Lab File: BN004192.D

Acq: 22 Dec 2018 10:31

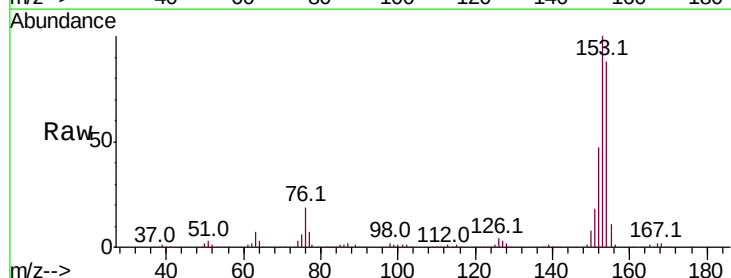
Tgt Ion:153 Resp: 1363770

Ion Ratio Lower Upper

153 100

152 47.3 37.8 56.6

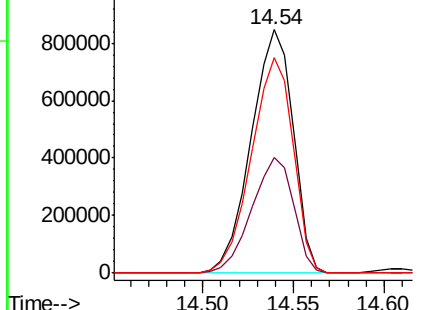
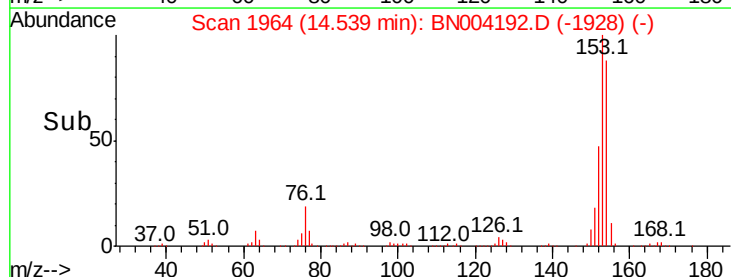
154 88.2 71.0 106.6

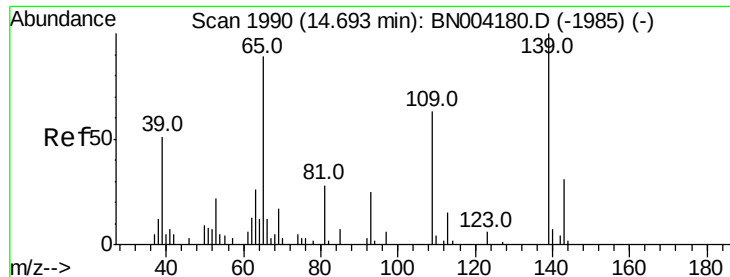


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E

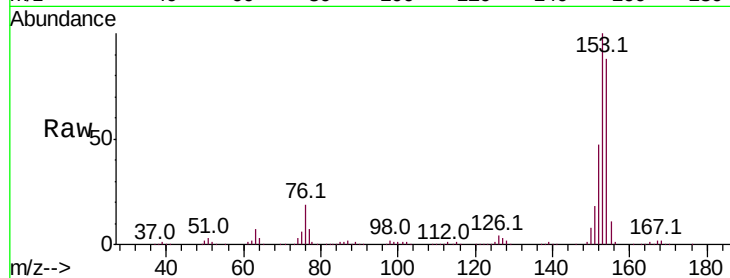




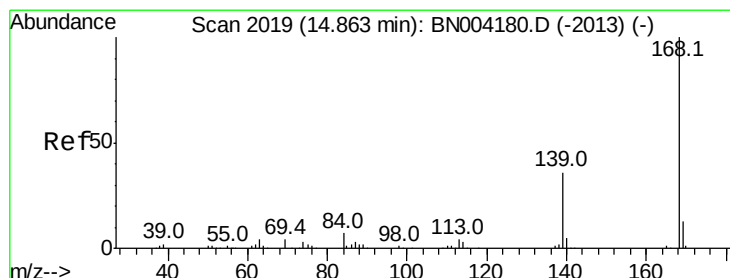
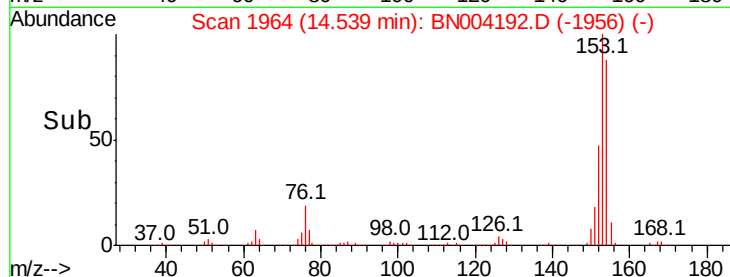
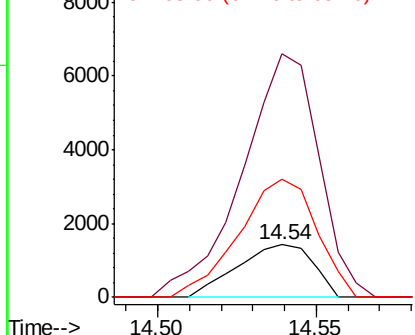
#52
4-Nitrophenol
Concen: 2.176 ng/ul
RT: 14.54 min Scan# 1964
Delta R.T. -0.15 min
Lab File: BN004192.D
Acq: 22 Dec 2018 10:31

Instrument :
BNA_N
ClientSampleId :

Tot Ion:109 Resp: 2387
Ion Ratio Lower Upper
109 100
139 463.6 125.0 187.4#
65 225.5 110.8 166.2#

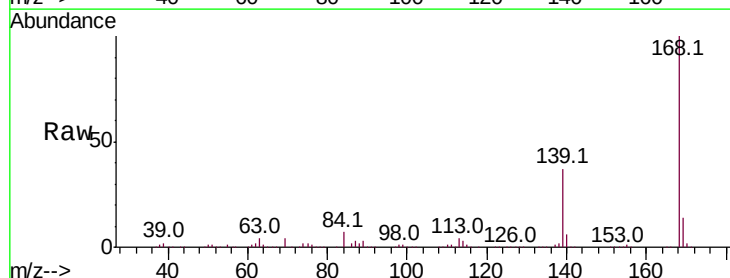


Abundance Ion 109.00 (108.70 to 109.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 65.00 (64.70 to 65.70): BNC

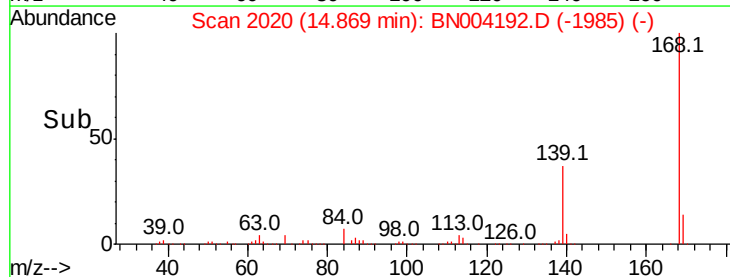
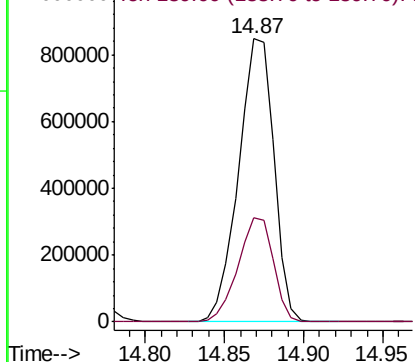


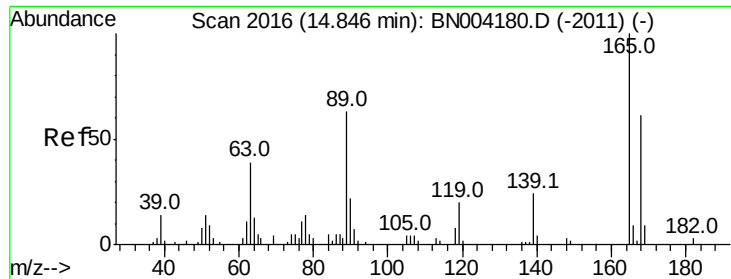
#53
Dibenzofuran
Concen: 136.869 ng/ul
RT: 14.87 min Scan# 2020
Delta R.T. 0.01 min
Lab File: BN004192.D
Acq: 22 Dec 2018 10:31

Tgt Ion:168 Resp: 1314013
Ion Ratio Lower Upper
168 100
139 36.8 28.8 43.2



Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E

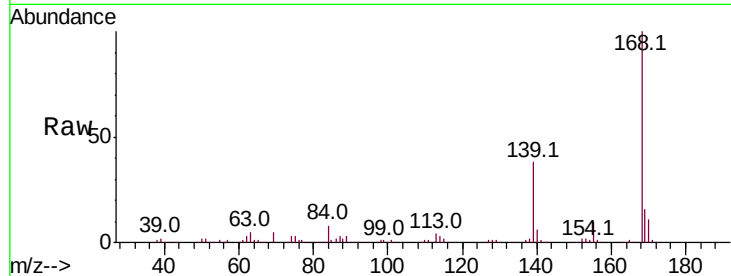




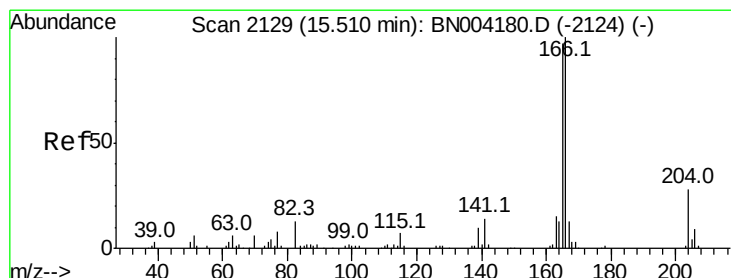
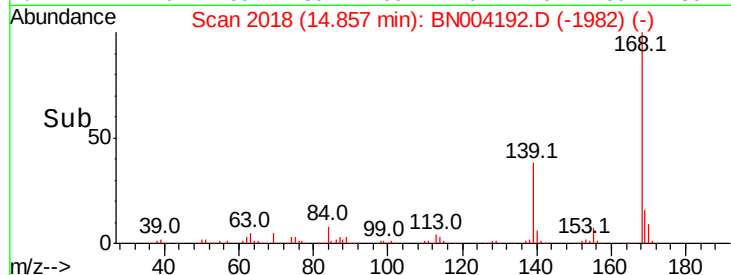
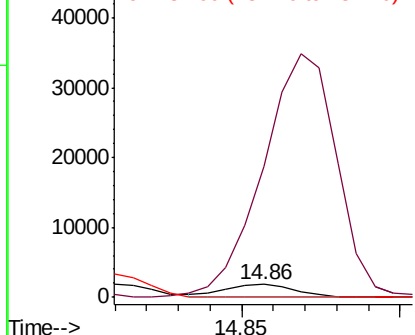
#54
2,4-Dinitrotoluene
Concen: 1.094 ng/ul
RT: 14.86 min Scan# 2018
Delta R.T. 0.01 min
Lab File: BN004192.D
Acq: 22 Dec 2018 10:31

Instrument :
BNA_N
ClientSampleId :

Tot Ion:165 Resp: 2834
Ion Ratio Lower Upper
165 100
63 1010.8 29.0 43.6#
182 0.0 2.4 3.6#

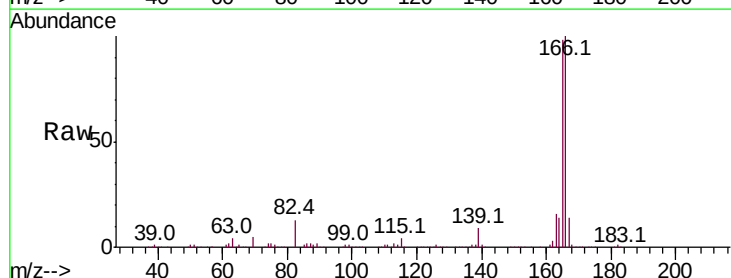


Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BNO
Ion 182.00 (181.70 to 182.70): E

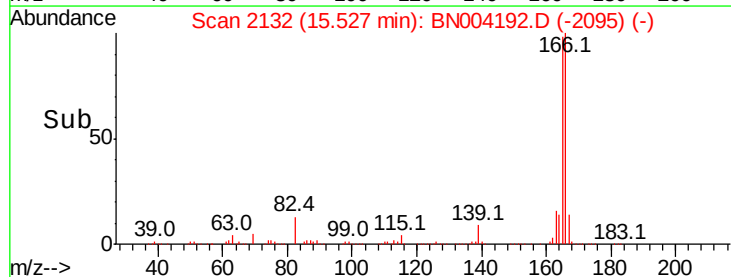
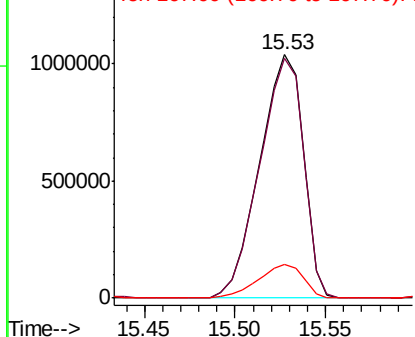


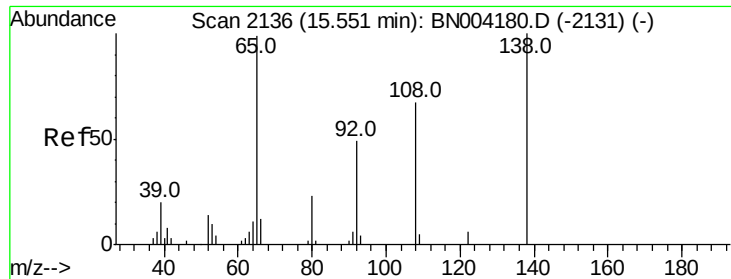
#58
Fluorene
Concen: 219.445 ng/ul
RT: 15.53 min Scan# 2132
Delta R.T. 0.02 min
Lab File: BN004192.D
Acq: 22 Dec 2018 10:31

Tgt Ion:166 Resp: 1754171
Ion Ratio Lower Upper
166 100
165 98.5 78.6 117.8
167 13.8 10.3 15.5



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

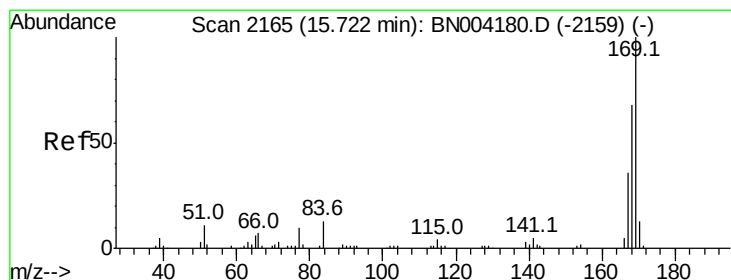
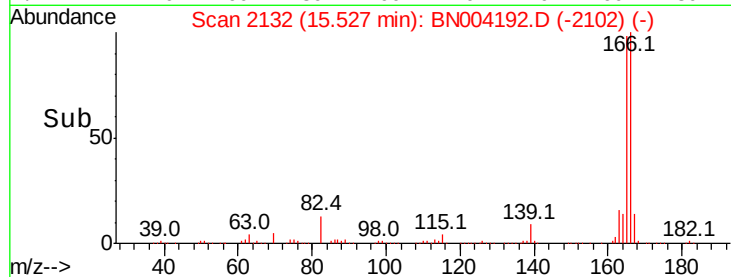
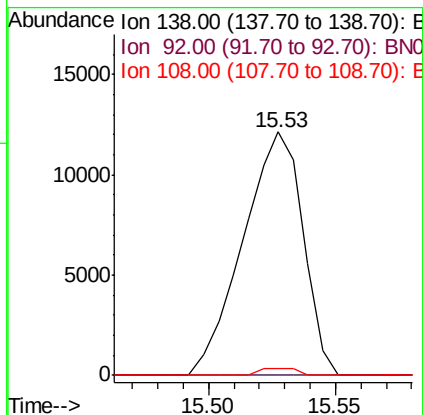
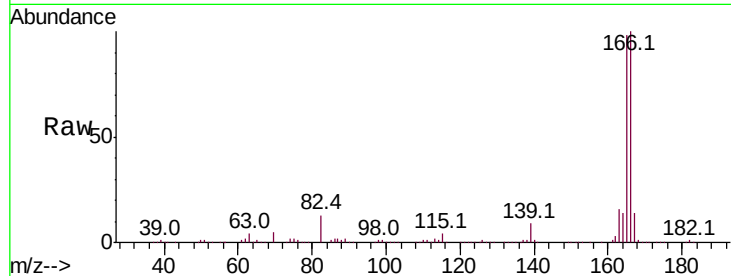




#60
4-Nitroaniline
Concen: 9.501 ng/ul
RT: 15.53 min Scan# 2132
Delta R.T. -0.02 min
Lab File: BN004192.D
Acq: 22 Dec 2018 10:31

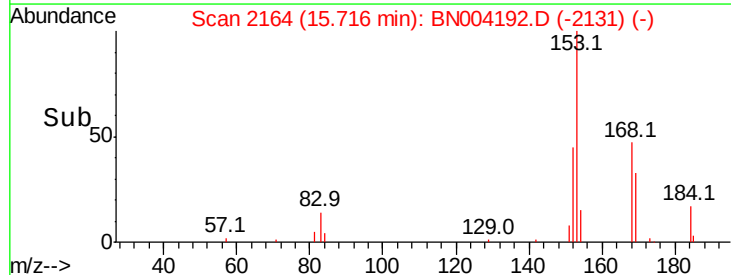
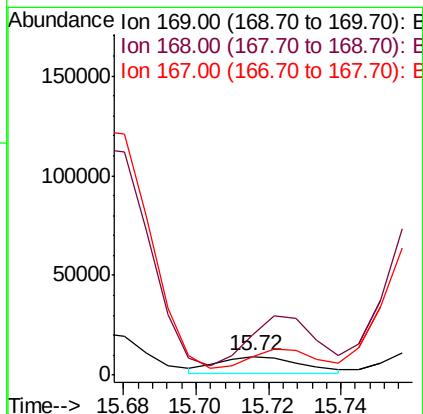
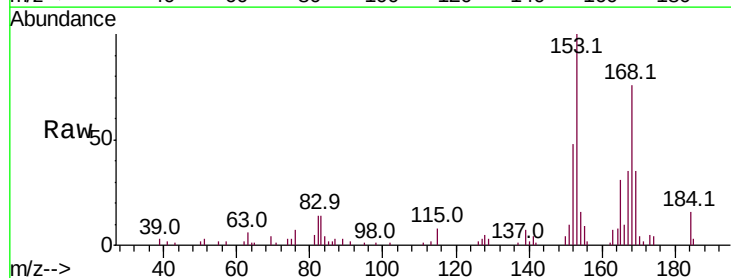
Instrument :
BNA_N
ClientSampleId :

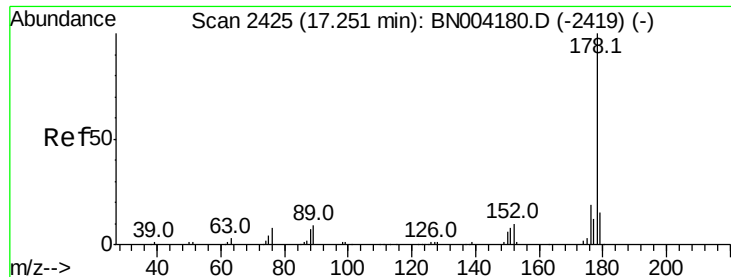
Tot Ion:138 Resp: 19996
Ion Ratio Lower Upper
138 100
92 0.0 39.0 58.4#
108 2.8 52.2 78.4#



#64
N-Nitrosodiphenylamine
Concen: 2.335 ng/ul
RT: 15.72 min Scan# 2164
Delta R.T. -0.01 min
Lab File: BN004192.D
Acq: 22 Dec 2018 10:31

Tgt Ion:169 Resp: 13912
Ion Ratio Lower Upper
169 100
168 217.3 53.7 80.5#
167 101.0 28.6 42.8#





#69

Phenanthrene

Concen: 627.699 ng/ul

RT: 17.30 min Scan# 2434

Delta R.T. 0.05 min

Lab File: BN004192.D

Acq: 22 Dec 2018 10:31

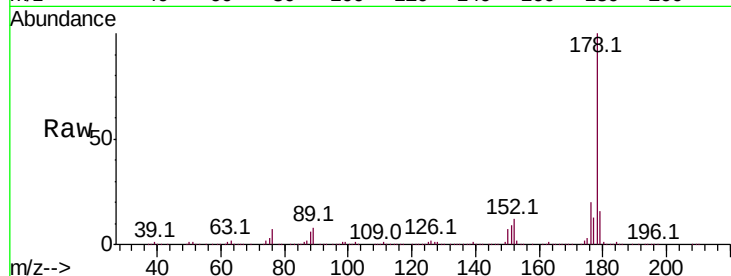
Instrument :

BNA_N

ClientSampleId :

Tot Ion:178 Resp: 7140562

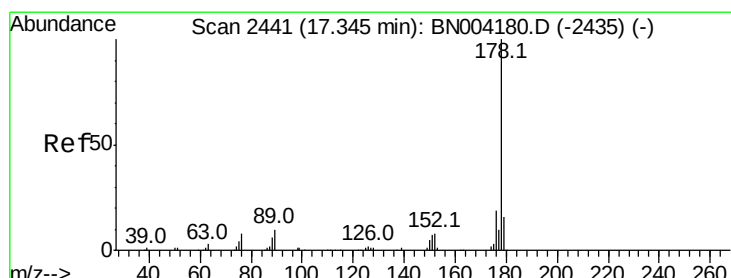
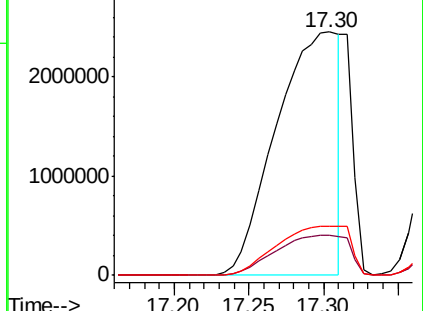
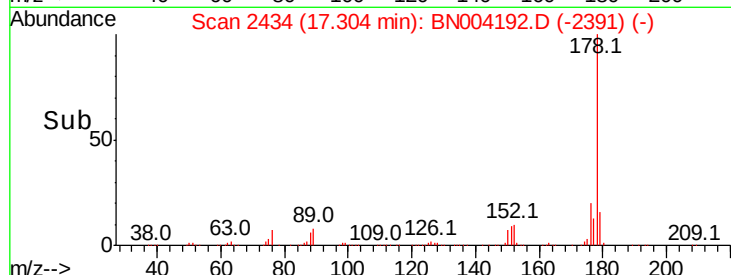
Ion	Ratio	Lower	Upper
178	100		
179	16.4	12.1	18.1
176	20.2	15.0	22.6



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: 225.765 ng/ul

RT: 17.38 min Scan# 2447

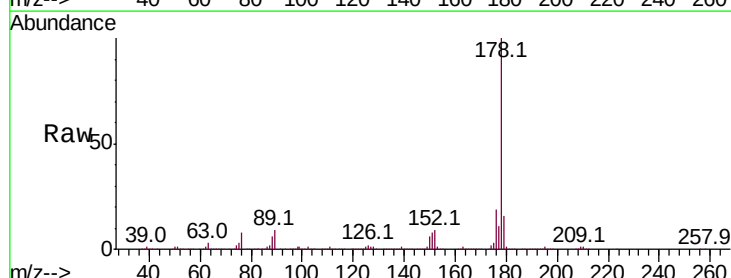
Delta R.T. 0.03 min

Lab File: BN004192.D

Acq: 22 Dec 2018 10:31

Tgt Ion:178 Resp: 2632629

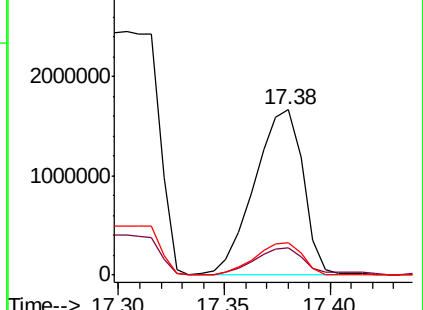
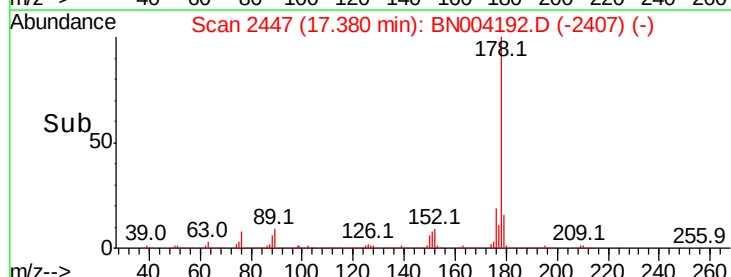
Ion	Ratio	Lower	Upper
178	100		
179	16.4	12.1	18.1
176	19.3	15.2	22.8

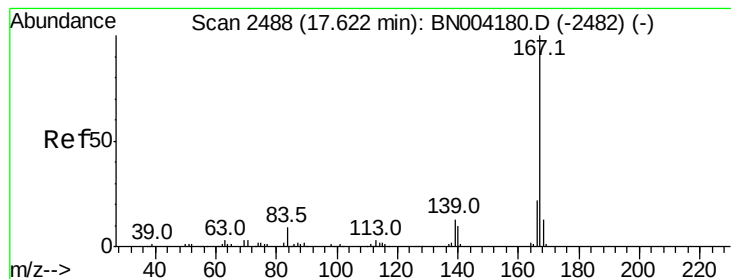


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#74

Carbazole

Concen: 1.281 ng/ul

RT: 17.63 min Scan# 2489

Delta R.T. 0.01 min

Lab File: BN004192.D

Acq: 22 Dec 2018 10:31

Instrument :

BNA_N

ClientSampled :

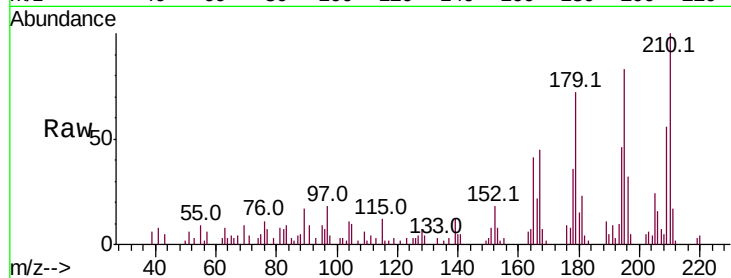
Tot Ion:167 Resp: 13722

Ion Ratio Lower Upper

167 100

166 49.5 17.4 26.0#

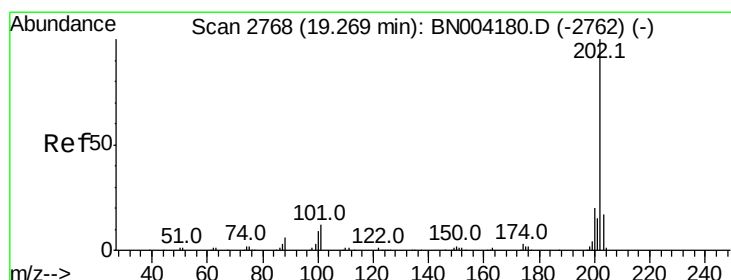
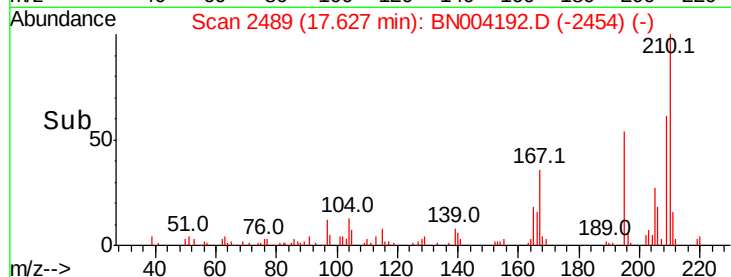
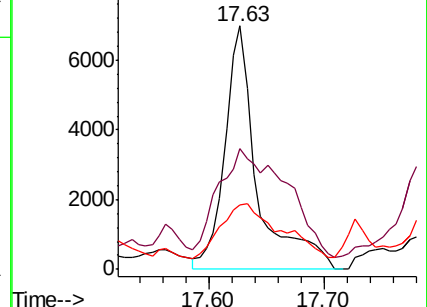
139 26.5 10.2 15.2#



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: 573.978 ng/ul

RT: 19.32 min Scan# 2777

Delta R.T. 0.05 min

Lab File: BN004192.D

Acq: 22 Dec 2018 10:31

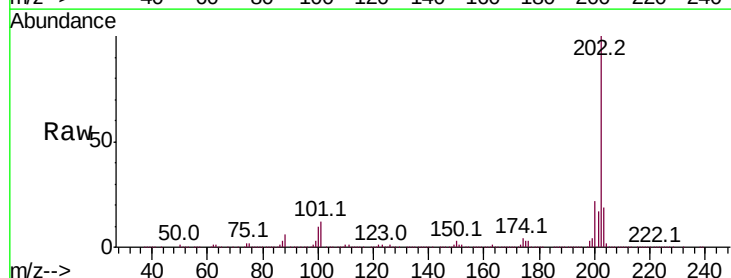
Tgt Ion:202 Resp: 8003359

Ion Ratio Lower Upper

202 100

101 12.4 10.2 15.2

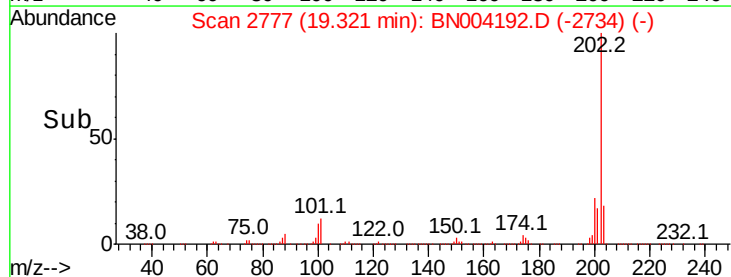
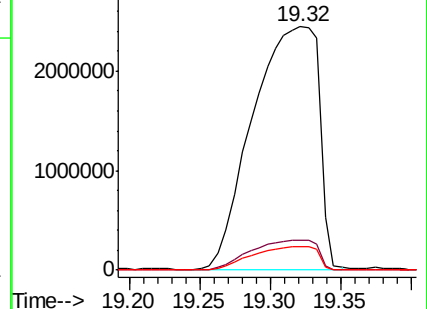
100 9.7 7.8 11.8

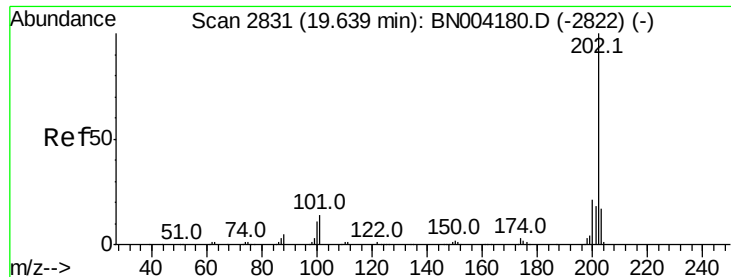


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): E





#79

Pvrene

Concen: 622.405 ng/ul

RT: 19.69 min Scan# 2839

Delta R.T. 0.05 min

Lab File: BN004192.D

Acq: 22 Dec 2018 10:31

Instrument :

BNA_N

ClientSampleId :

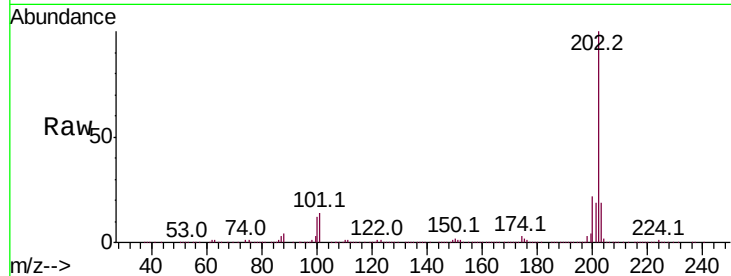
Tot Ion:202 Resp: 6159472

Ion Ratio Lower Upper

202 100

101 14.3 12.2 18.2

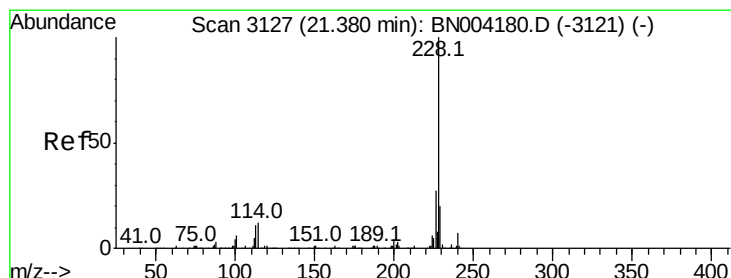
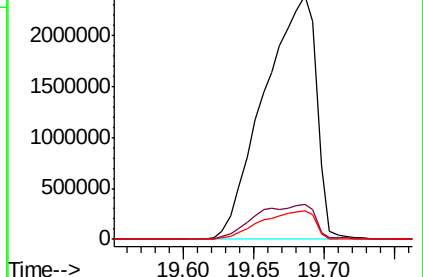
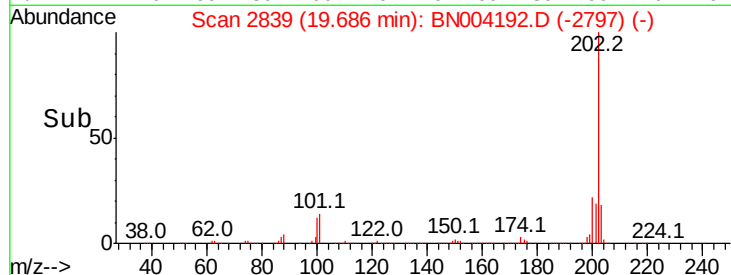
100 11.8 9.9 14.9



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: 357.532 ng/ul

RT: 21.42 min Scan# 3133

Delta R.T. 0.03 min

Lab File: BN004192.D

Acq: 22 Dec 2018 10:31

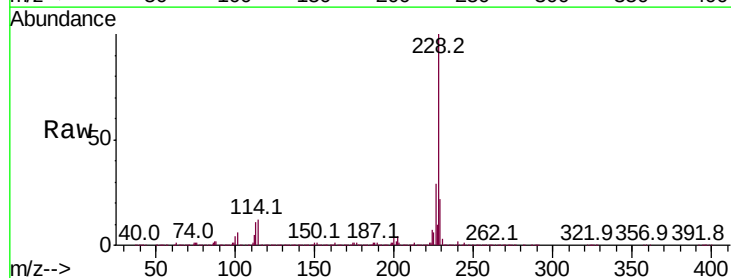
Tgt Ion:228 Resp: 3949320

Ion Ratio Lower Upper

228 100

229 22.2 15.9 23.9

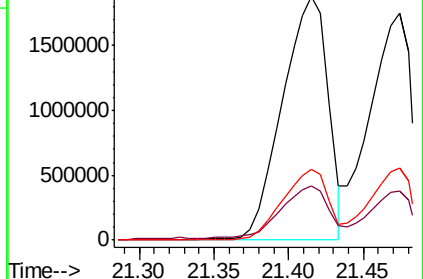
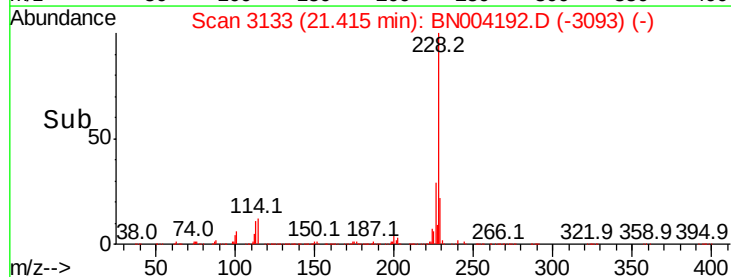
226 29.0 21.4 32.2

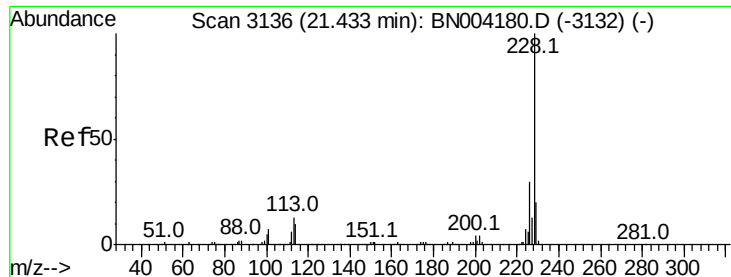


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E





#84

Chrysene

Concen: 319.320 ng/ul

RT: 21.47 min Scan# 3143

Delta R.T. 0.04 min

Lab File: BN004192.D

Acq: 22 Dec 2018 10:31

Instrument :

BNA_N

ClientSampleId :

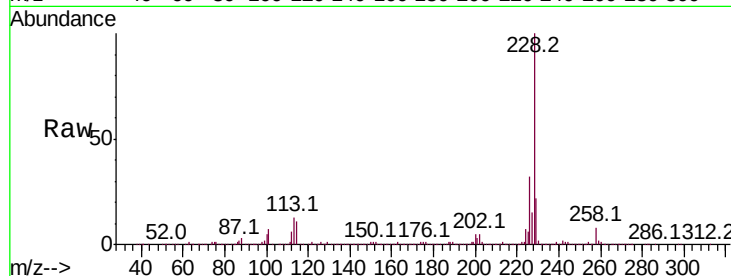
Tot Ion:228 Resp: 3303815

Ion Ratio Lower Upper

228 100

226 31.8 23.8 35.8

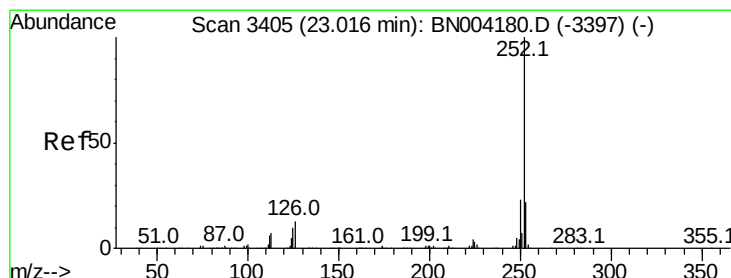
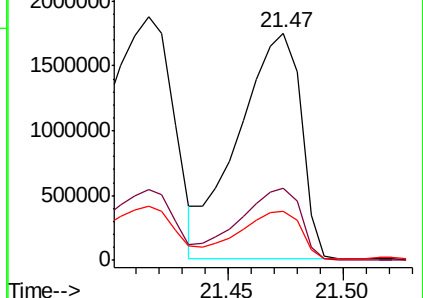
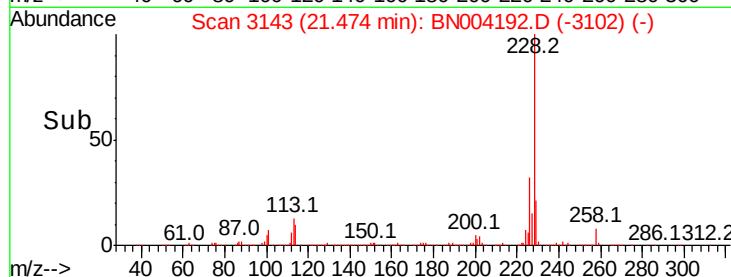
229 21.7 15.8 23.6



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: 190.829 ng/ul

RT: 23.06 min Scan# 3412

Delta R.T. 0.04 min

Lab File: BN004192.D

Acq: 22 Dec 2018 10:31

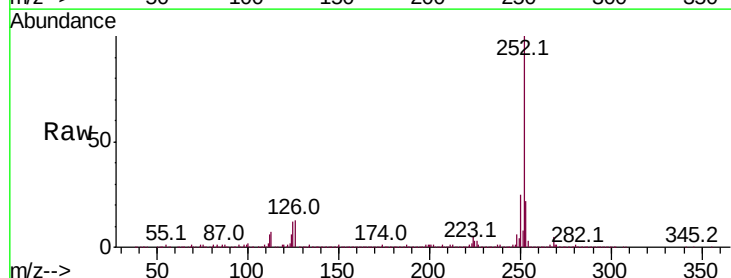
Tgt Ion:252 Resp: 2176811

Ion Ratio Lower Upper

252 100

253 22.3 17.3 25.9

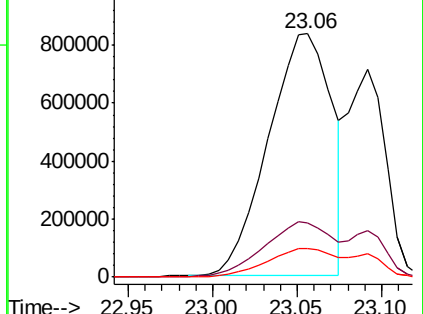
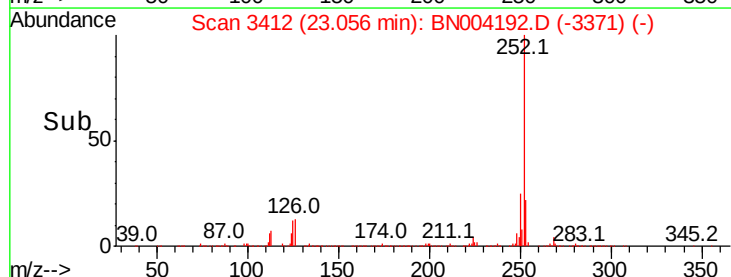
125 11.9 8.2 12.4

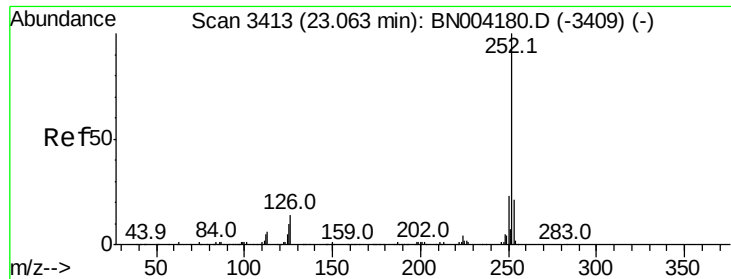


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#88

Benzo(k)fluoranthene

Concen: 100.822 ng/ul

RT: 23.09 min Scan# 3418

Delta R.T. 0.03 min

Lab File: BN004192.D

Acq: 22 Dec 2018 10:31

Instrument :

BNA_N

ClientSampleId :

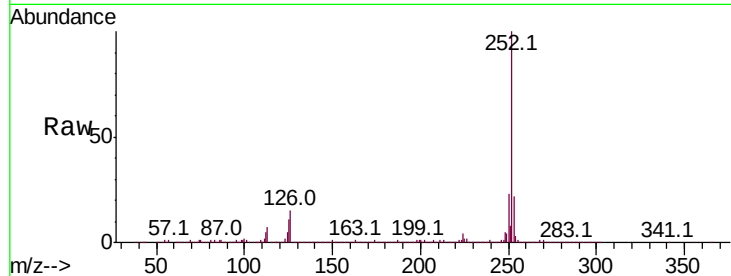
Tot Ion:252 Resp: 1076895

Ion Ratio Lower Upper

252 100

253 22.3 17.1 25.7

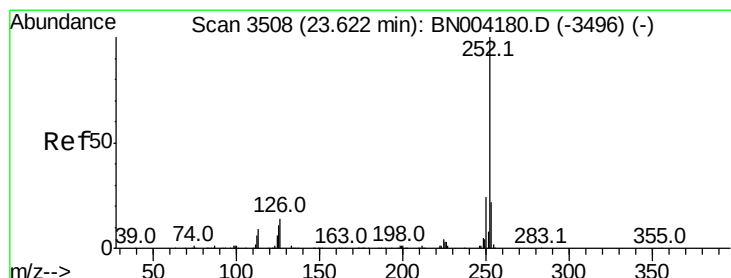
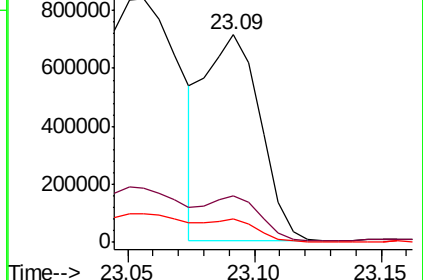
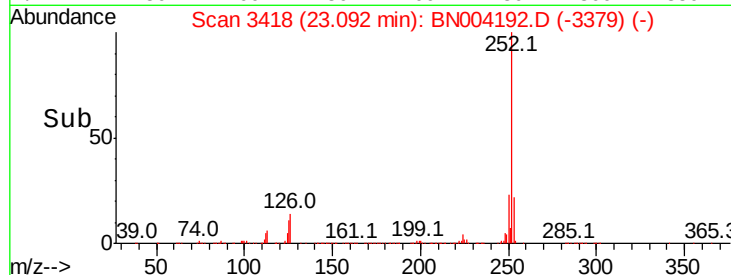
125 11.1 7.9 11.9



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: 22.358 ng/ul

RT: 23.64 min Scan# 3511

Delta R.T. 0.02 min

Lab File: BN004192.D

Acq: 22 Dec 2018 10:31

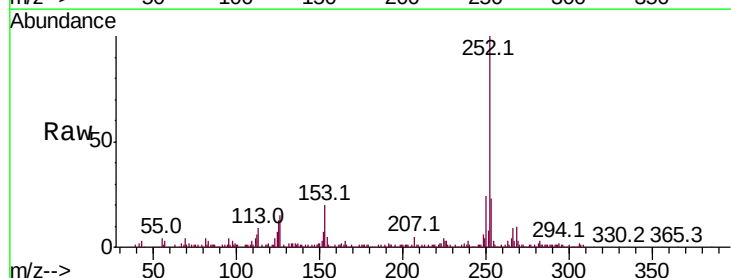
Tgt Ion:252 Resp: 245623

Ion Ratio Lower Upper

252 100

253 22.7 17.5 26.3

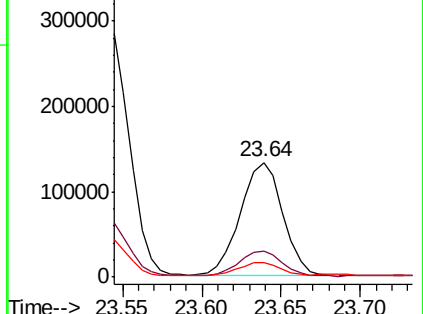
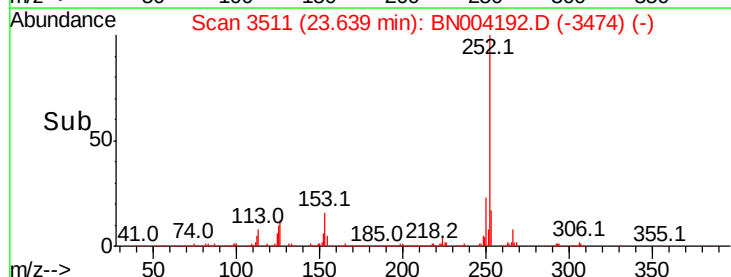
125 12.6 9.1 13.7

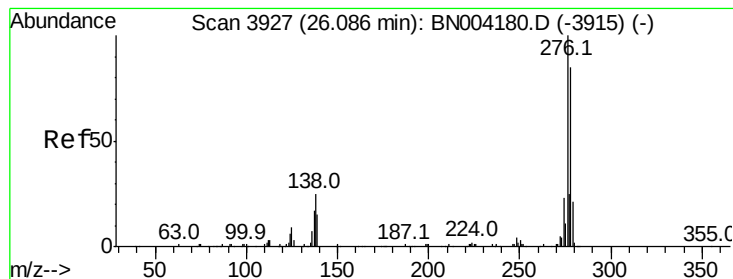


Abundance Ion 252.00 (251.70 to 252.70): E

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: 25.705 ng/ul

RT: 26.11 min Scan# 3931

Delta R.T. 0.02 min

Lab File: BN004192.D

Acq: 22 Dec 2018 10:31

Instrument :

BNA_N

ClientSampleId :

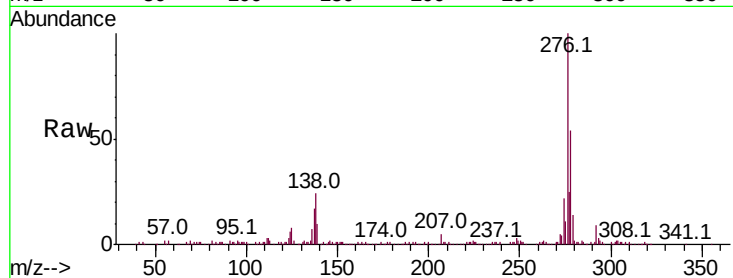
Tot Ion:276 Resp: 368089

Ion Ratio Lower Upper

276 100

138 24.0 20.4 30.6

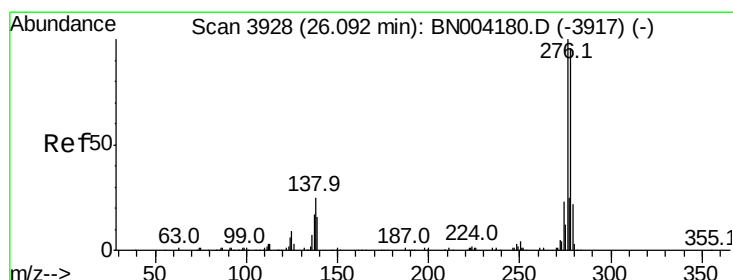
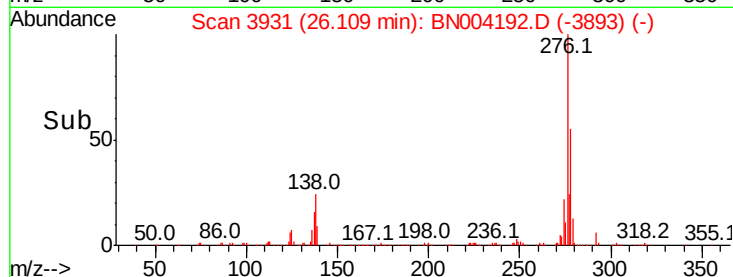
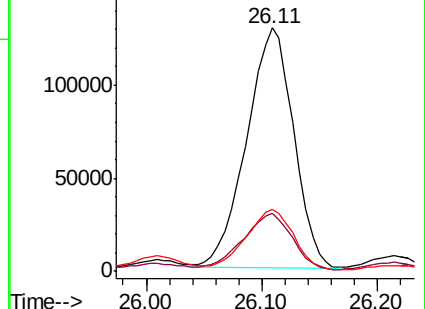
277 25.2 20.6 30.8



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: 18.798 ng/ul

RT: 26.11 min Scan# 3931

Delta R.T. 0.02 min

Lab File: BN004192.D

Acq: 22 Dec 2018 10:31

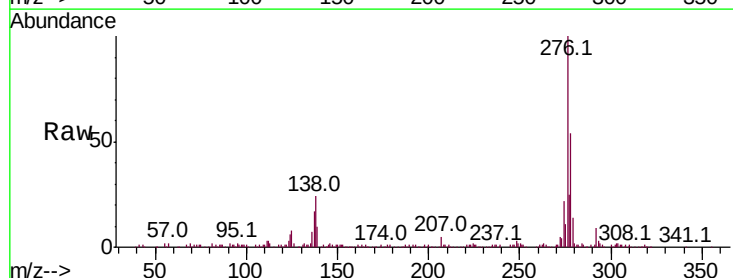
Tgt Ion:278 Resp: 223765

Ion Ratio Lower Upper

278 100

139 18.3 13.3 19.9

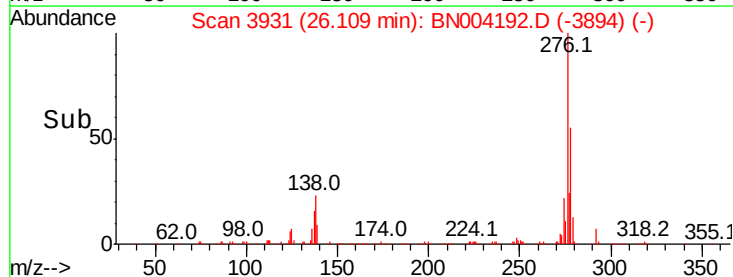
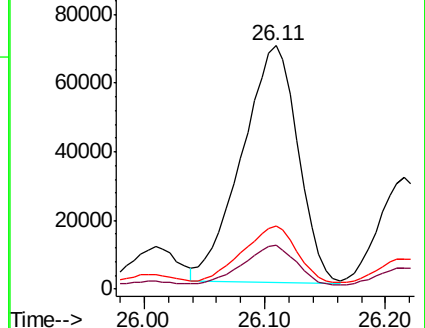
279 26.0 19.0 28.6

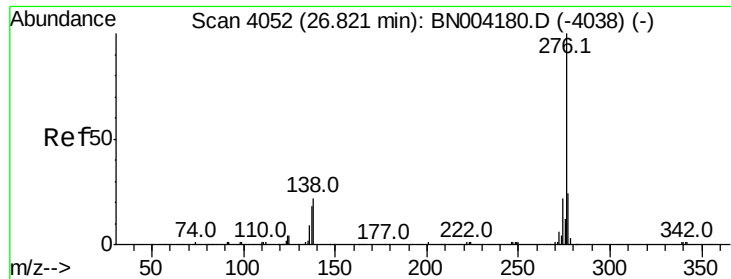


Abundance Ion 278.00 (277.70 to 278.70): E

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: 11.045 ng/ul

RT: 26.83 min Scan# 4054

Delta R.T. 0.01 min

Lab File: BN004192.D

Acq: 22 Dec 2018 10:31

Instrument :

BNA_N

ClientSampleId :

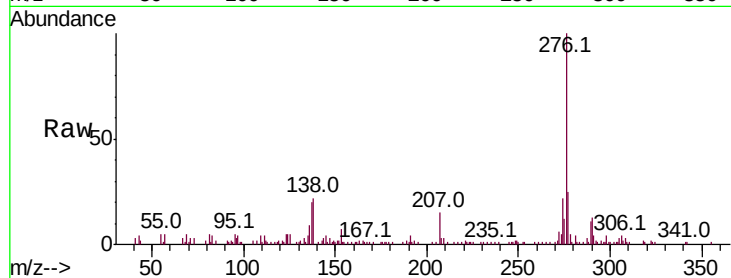
Tot Ion:276 Resp: 132388

Ion Ratio Lower Upper

276 100

138 22.4 18.2 27.4

277 25.0 19.0 28.6



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

