

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM051719\
 Data File : BM020390.D
 Acq On : 18 May 2019 07:34
 Operator : JU/SJ
 Sample : K2604-20 20X
 Misc :
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :

Quant Time: May 20 05:19:56 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051619MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Sat May 18 05:13:49 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.73	152	65251	20.00	ng/ul	0.00
18) Naphthalene-d8	10.53	136	244332	20.00	ng/ul	0.01
35) Acenaphthene-d10	14.38	164	169597	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.14	188	368364	20.00	ng/ul	0.00
77) Chrysene-d12	21.33	240	402160	20.00	ng/ul	0.00
85) Perylene-d12	23.60	264	453973	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	0.00	96	0	0.00	ng/uL	
5) Phenol-d5	6.90	99	3371	0.65	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.08	67	2366	0.71	ng/ul	0.00
9) 2-Chlorophenol-d4	7.27	132	2615	0.68	ng/ul	0.00
13) 4-Methylphenol-d8	8.45	113	2245	0.59	ng/ul	0.01
19) Nitrobenzene-d5	8.90	128	2335	1.47	ng/ul	0.00
22) 2-Nitrophenol-d4	9.62	143	748	0.43	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.15	165	2548	0.69	ng/ul	0.00
29) 4-Chloroaniline-d4	10.68	131	13032	3.40	ng/ul	0.01
43) Dimethylphthalate-d6	13.79	166	18443	1.51	ng/ul	0.00
46) Acenaphthylene-d8	14.08	160	16645	1.09	ng/ul	0.00
51) 4-Nitrophenol-d4	14.59	143	1320	0.75	ng/ul	-0.01
57) Fluorene-d10	15.38	176	14657	1.35	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.52	200	426	0.20	ng/ul	0.00
70) Anthracene-d10	17.14	188	368364	23.31	ng/ul	-0.09
78) Pyrene-d10	19.53	212	24278	1.25	ng/ul	0.00
89) Benzo(a)pyrene-d12	23.45	264	22642	1.10	ng/ul	0.00

Target Compounds

					Ovalue	
4) Benzaldehyde	6.87	77	10550	2.366	ng/ul#	1
17) Hexachloroethane	8.82	117	48662	26.447	ng/ul#	1
20) Nitrobenzene	8.99	77	26065	5.034	ng/ul#	18
28) Naphthalene	10.60	128	21042392	1874.484	ng/ul	95
30) 4-Chloroaniline	10.61	127	3077379	785.818	ng/ul#	12
32) Caprolactam	11.52	113	5199	5.051	ng/ul#	58
34) 2-Methylnaphthalene	12.22	142	9415709	1158.448	ng/ul	98
40) 1,1'-Biophenyl	13.21	154	1042373	85.852	ng/ul	99
47) Acenaphthylene	14.12	152	7020255	487.754	ng/ul	98
48) 3-Nitroaniline	14.36	138	2571	1.452	ng/ul#	80
49) Acenaphthene	14.45	153	415324	41.974	ng/ul	99
53) Dibenzofuran	14.78	168	416715	27.810	ng/ul	97
54) 2,4-Dinitrotoluene	14.78	165	19348	6.001	ng/ul#	1
58) Fluorene	15.44	166	3235827	269.571	ng/ul	99
64) N-Nitrosodiphenylamine	15.64	169	29758	3.265	ng/ul#	1
69) Phenanthrene	17.20	178	15123420	861.654	ng/ul	93
71) Anthracene	17.28	178	3264668	182.855	ng/ul	99
74) Carbazole	17.54	167	35987	2.375	ng/ul#	76
76) Fluoranthene	19.20	202	5705009	257.317	ng/ul	99
79) Pyrene	19.57	202	8399979	347.991	ng/ul	96
82) Benzo(a)anthracene	21.37	228	2456854	101.501	ng/ul	94
84) Chrysene	21.37	228	2456854	106.211	ng/ul	96
87) Benzo(b)fluoranthene	22.92	252	1883995	72.715	ng/ul	98

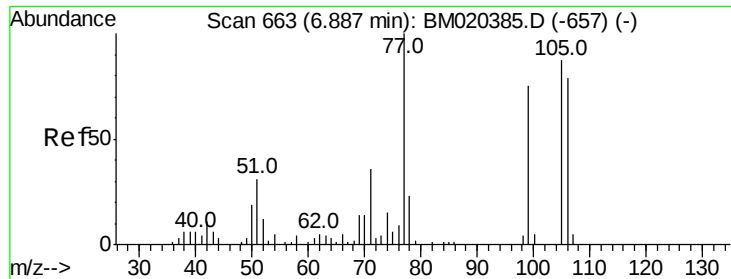
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM051719\
Data File : BM020390.D
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Quant Title : SVOA CALIBRATION
QLast Update : Sat May 18 05:13:49 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
88) Benzo(k)fluoranthene	22.92	252	1883995	74.030	ng/ul	99
90) Benzo(a)pyrene	23.50	252	2263561	92.833	ng/ul	100
91) Indeno(1,2,3-cd)pyrene	25.90	276	875793	31.522	ng/ul	97
92) Dibenzo(a,h)anthracene	25.90	278	247492	10.417	ng/ul#	93
93) Benzo(g,h,i)perylene	26.61	276	919911	39.998	ng/ul	97

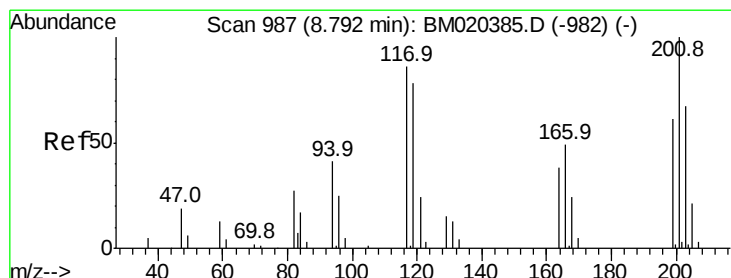
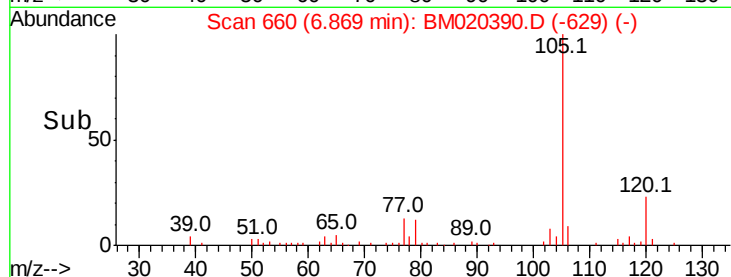
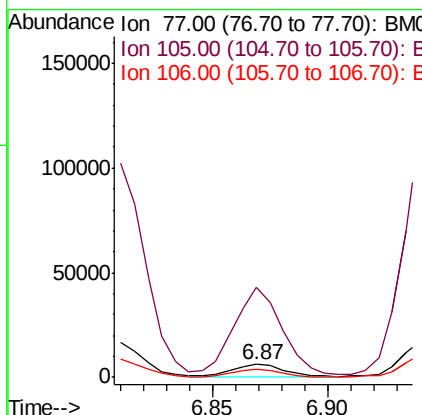
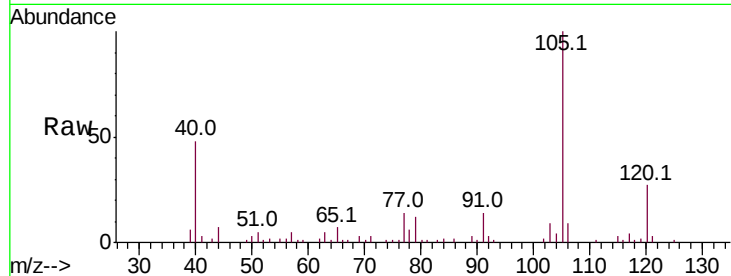
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#4
Benzaldehyde
Concen: 2.366 ng/ul
RT: 6.87 min Scan# 660
Delta R.T. -0.02 min
Lab File: BM020390.D
Acq: 18 May 2019 07:34

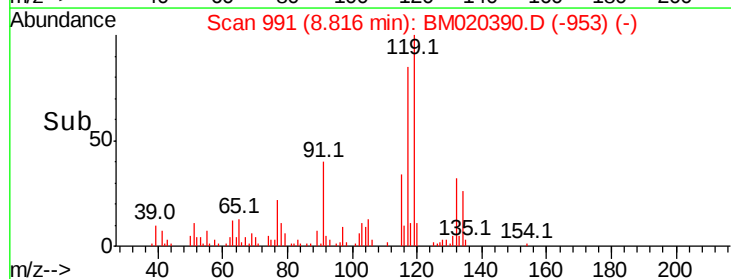
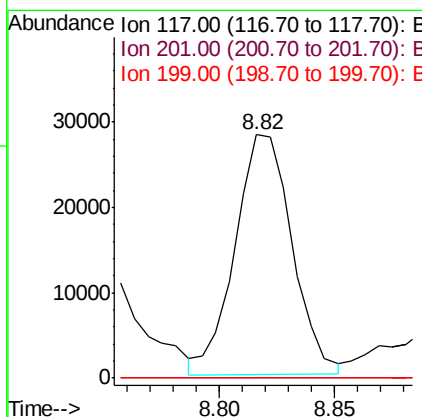
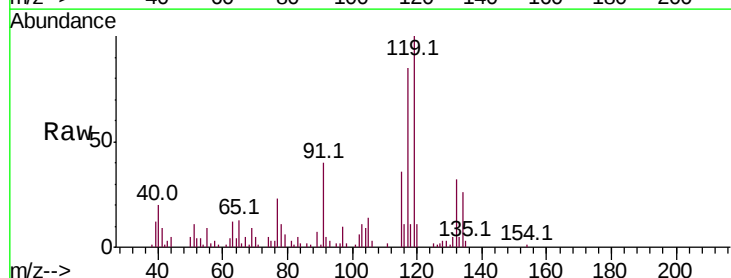
Instrument :
BNA_M
ClientSampleId :

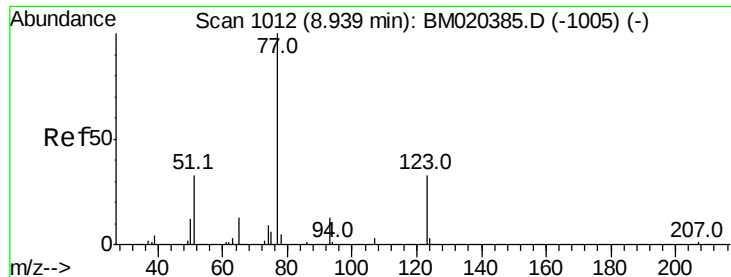
Tot Ion: 77 Resp: 10550
Ion Ratio Lower Upper
77 100
105 692.7 67.4 101.0#
106 64.0 64.8 97.2#



#17
Hexachloroethane
Concen: 26.447 ng/ul
RT: 8.82 min Scan# 991
Delta R.T. 0.02 min
Lab File: BM020390.D
Acq: 18 May 2019 07:34

Tgt Ion: 117 Resp: 48662
Ion Ratio Lower Upper
117 100
201 0.0 102.4 153.6#
199 0.0 63.3 94.9#

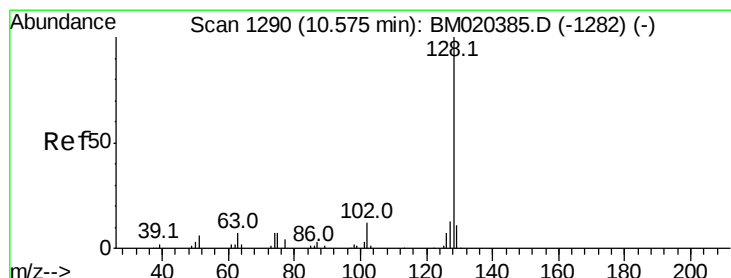
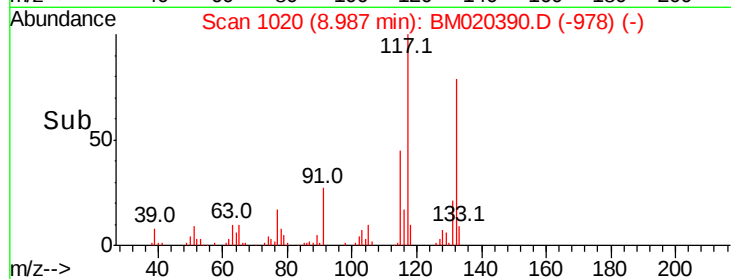
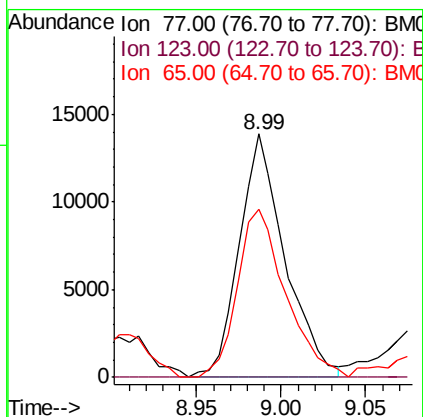
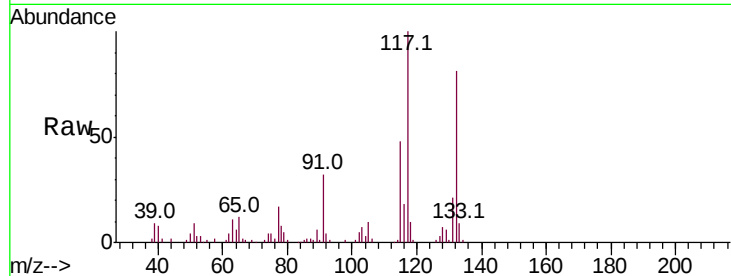




#20
Nitrobenzene
Concen: 5.034 ng/ul
RT: 8.99 min Scan# 1020
Delta R.T. 0.05 min
Lab File: BM020390.D
Acq: 18 May 2019 07:34

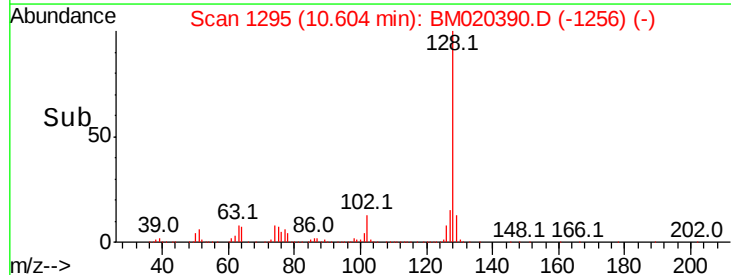
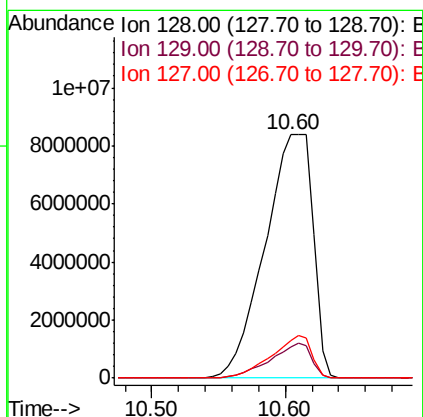
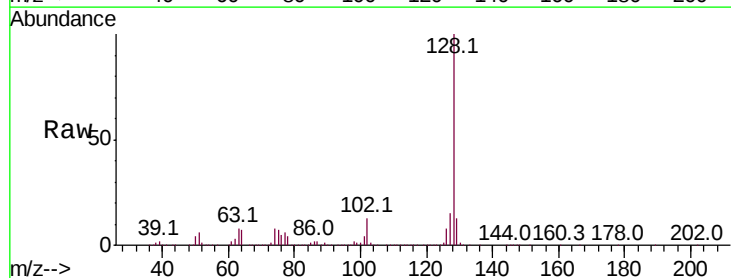
Instrument :
BNA_M
ClientSampleId :

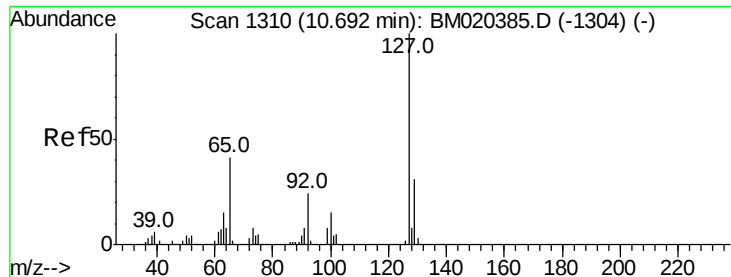
Tot Ion	Ratio	Lower	Upper
77	100		
123	0.0	26.0	39.0#
65	69.1	10.1	15.1#



#28
Naphthalene
Concen: 1874.484 ng/ul
RT: 10.60 min Scan# 1295
Delta R.T. 0.03 min
Lab File: BM020390.D
Acq: 18 May 2019 07:34

Tgt Ion	Ratio	Lower	Upper
128	100		
129	12.9	8.6	13.0
127	15.3	10.6	15.8

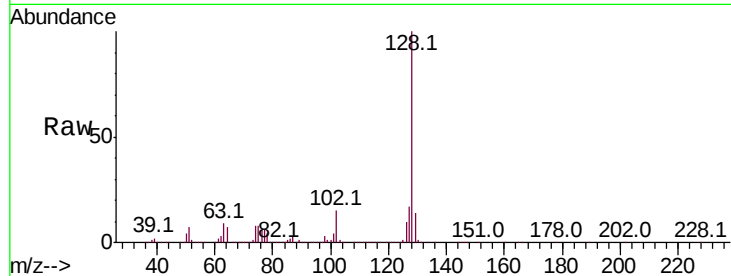




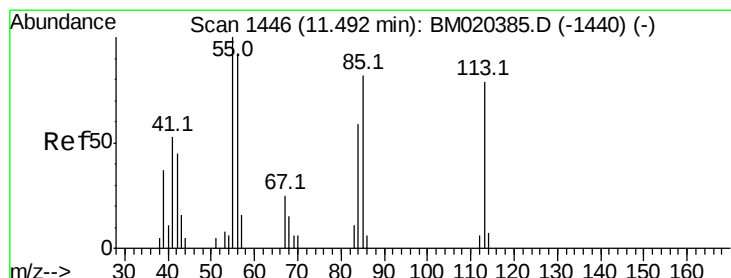
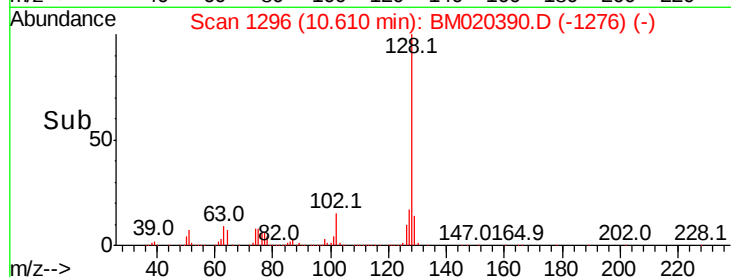
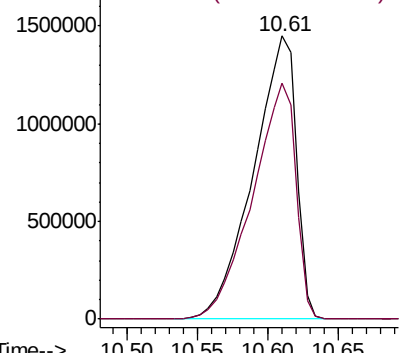
#30
4-Chloroaniline
Concen: 785.818 ng/ul
RT: 10.61 min Scan# 1296
Delta R.T. -0.08 min
Lab File: BM020390.D
Acq: 18 May 2019 07:34

Instrument :
BNA_M
ClientSampleId :

Tot Ion:127 Resp: 3077379
Ion Ratio Lower Upper
127 100
129 83.2 26.5 39.7#

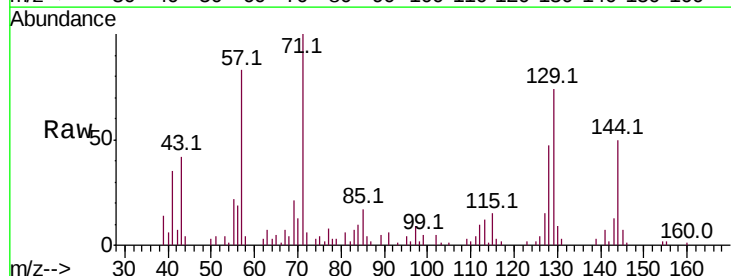


Abundance Ion 127.00 (126.70 to 127.70): E
Ion 129.00 (128.70 to 129.70): E

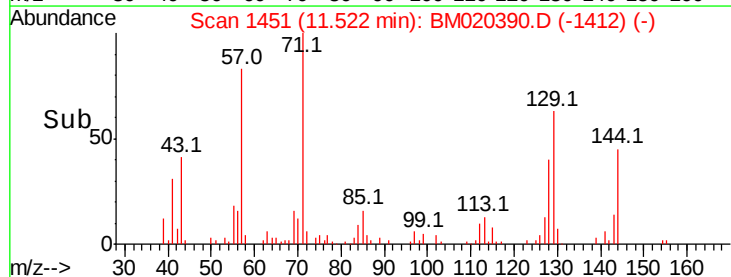
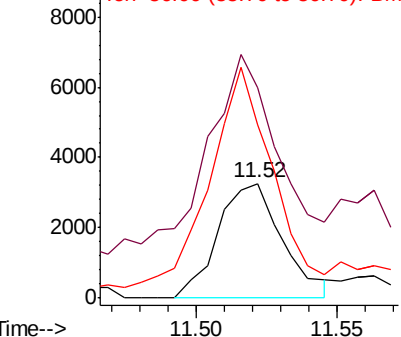


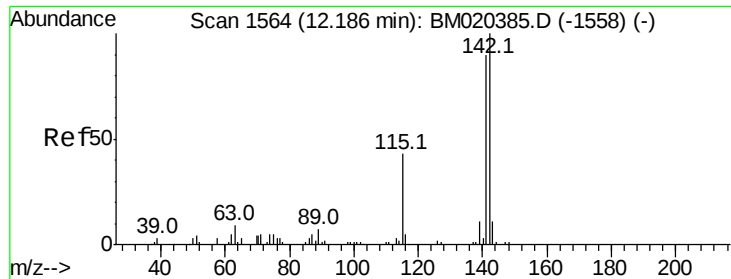
#32
Caprolactam
Concen: 5.051 ng/ul
RT: 11.52 min Scan# 1451
Delta R.T. 0.03 min
Lab File: BM020390.D
Acq: 18 May 2019 07:34

Tgt Ion:113 Resp: 5199
Ion Ratio Lower Upper
113 100
55 182.9 104.6 156.8#
56 151.4 88.4 132.6#



Abundance Ion 113.00 (112.70 to 113.70): E
Ion 55.00 (54.70 to 55.70): BM0
Ion 56.00 (55.70 to 56.70): BM0

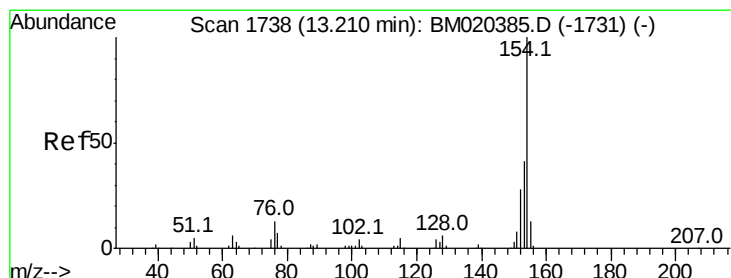
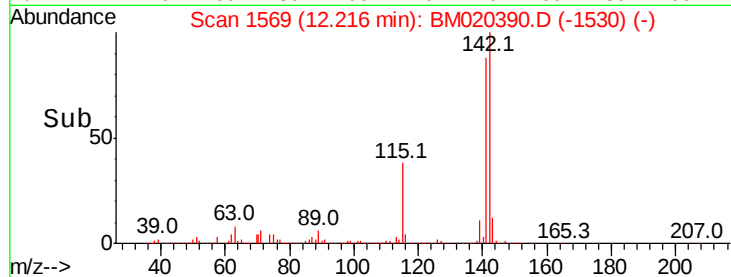
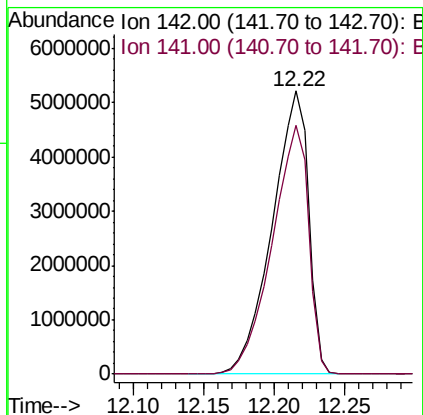
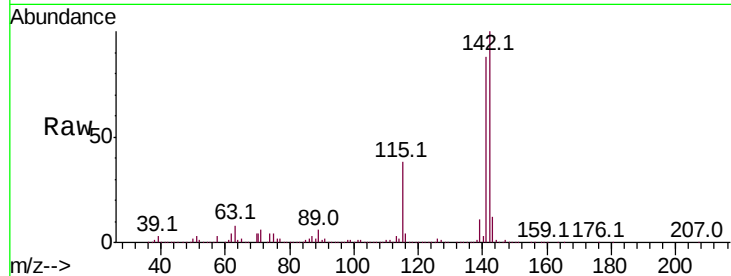




#34
 2-Methylnaphthalene
 Concen: 1158.448 ng/ul
 RT: 12.22 min Scan# 1569
 Delta R.T. 0.03 min
 Lab File: BM020390.D
 Acq: 18 May 2019 07:34

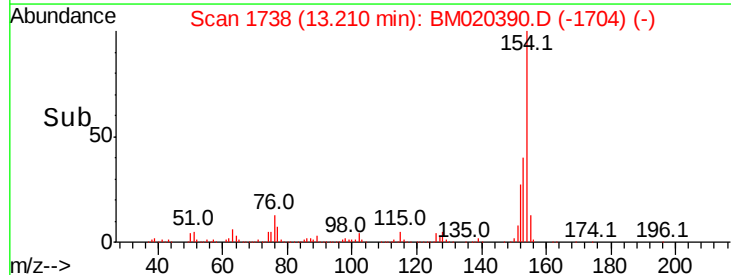
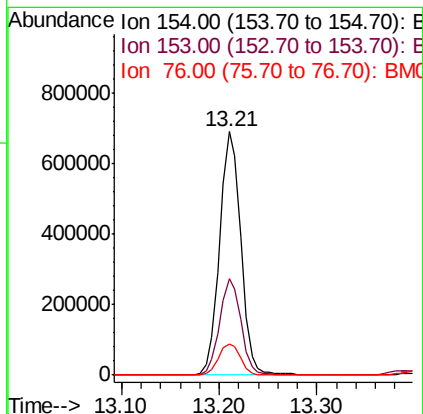
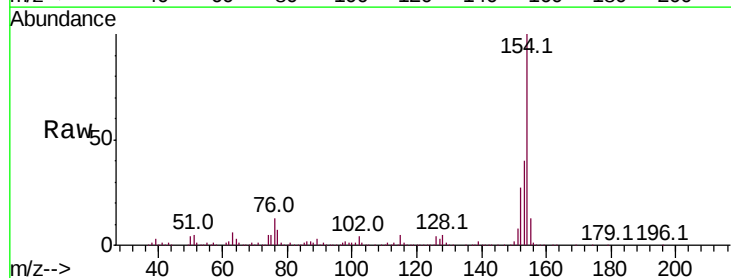
Instrument :
 BNA_M
 ClientSampled :

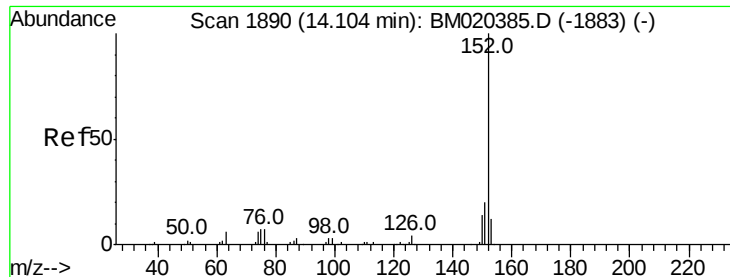
Tot Ion:142 Resp: 9415709
 Ion Ratio Lower Upper
 142 100
 141 88.0 68.6 102.8



#40
 1,1'-Biphenyl
 Concen: 85.852 ng/ul
 RT: 13.21 min Scan# 1738
 Delta R.T. 0.00 min
 Lab File: BM020390.D
 Acq: 18 May 2019 07:34

Tgt Ion:154 Resp: 1042373
 Ion Ratio Lower Upper
 154 100
 153 39.8 32.2 48.4
 76 13.0 11.0 16.4





#47

Acenaphthylene

Concen: 487.754 ng/ul

RT: 14.12 min Scan# 1893

Delta R.T. 0.02 min

Lab File: BM020390.D

Acq: 18 May 2019 07:34

Instrument :

BNA_M

ClientSampleId :

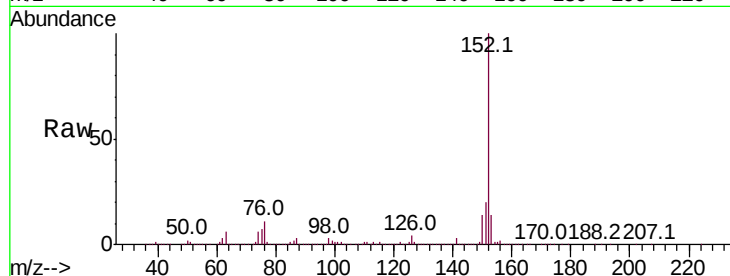
Tot Ion:152 Resp: 7020255

Ion	Ratio	Lower	Upper
152	100		
151	20.2	15.4	23.0
153	13.8	10.3	15.5

152 100

151 20.2 15.4 23.0

153 13.8 10.3 15.5

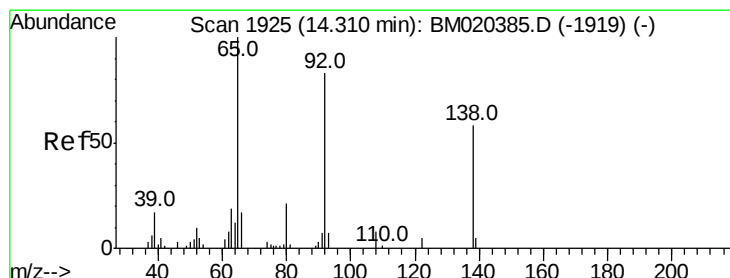
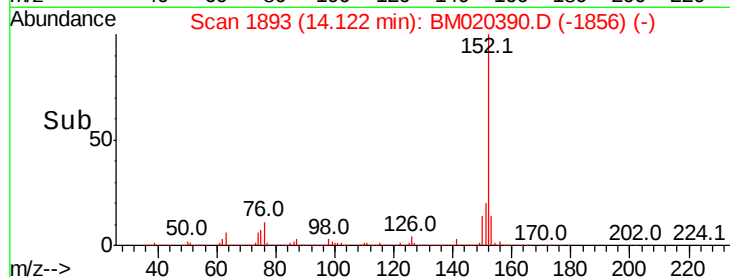
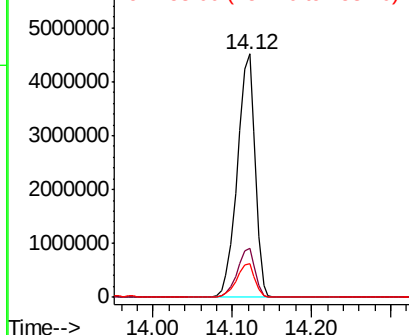


Abundance

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



#48

3-Nitroaniline

Concen: 1.452 ng/ul

RT: 14.36 min Scan# 1933

Delta R.T. 0.05 min

Lab File: BM020390.D

Acq: 18 May 2019 07:34

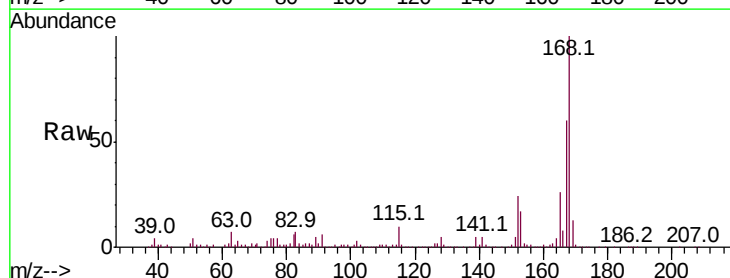
Tgt Ion:138 Resp: 2571

Ion	Ratio	Lower	Upper
138	100		
108	31.1	10.4	15.6#
92	114.3	108.7	163.1

138 100

108 31.1 10.4 15.6#

92 114.3 108.7 163.1

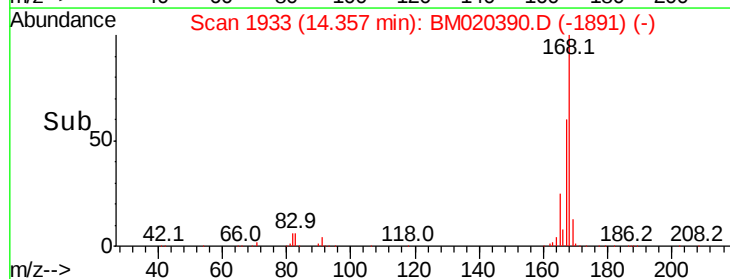
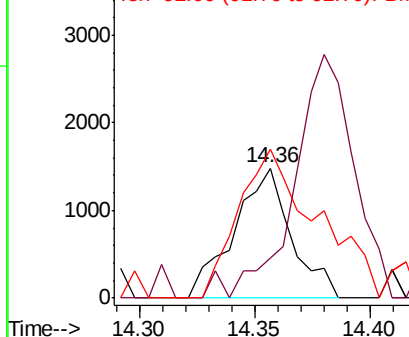


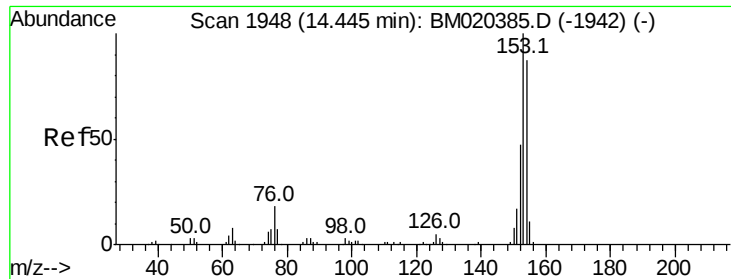
Abundance

Ion 138.00 (137.70 to 138.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 92.00 (91.70 to 92.70): BM





#49

Acenaphthene

Concen: 41.974 ng/ul

RT: 14.45 min Scan# 1948

Delta R.T. 0.00 min

Lab File: BM020390.D

Acq: 18 May 2019 07:34

Instrument :

BNA_M

ClientSampleId :

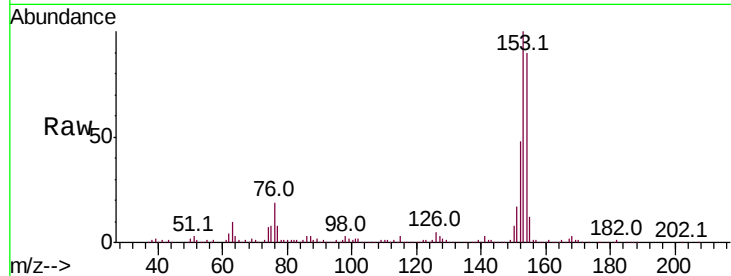
Tot Ion:153 Resp: 415324

Ion Ratio Lower Upper

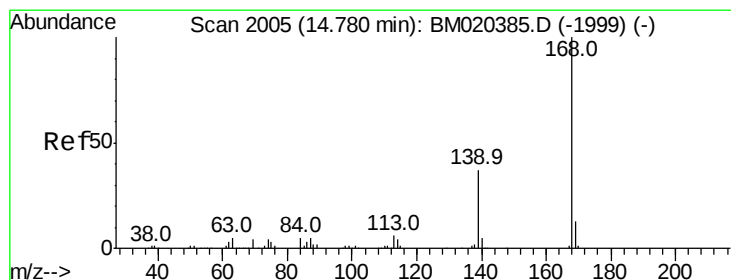
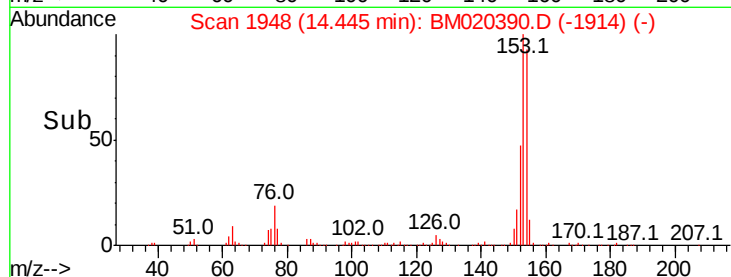
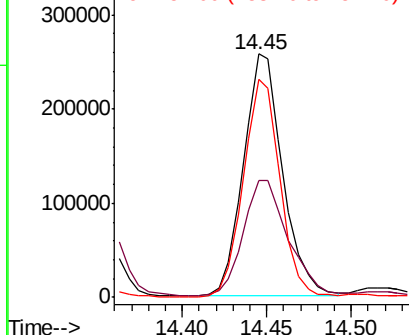
153 100

152 47.9 37.9 56.9

154 89.7 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: 27.810 ng/ul

RT: 14.78 min Scan# 2005

Delta R.T. 0.00 min

Lab File: BM020390.D

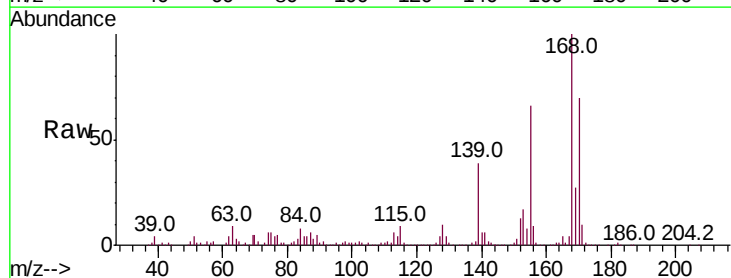
Acq: 18 May 2019 07:34

Tgt Ion:168 Resp: 416715

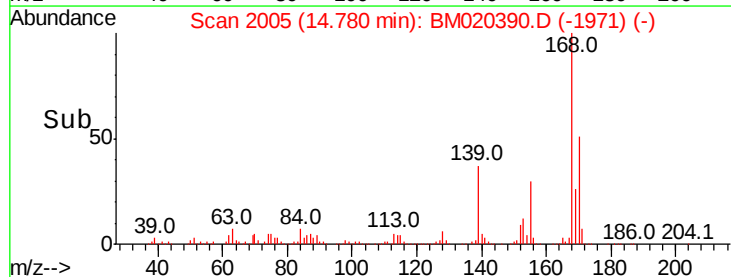
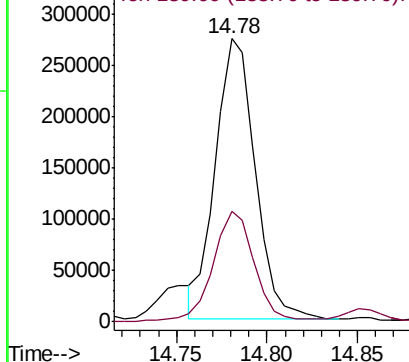
Ion Ratio Lower Upper

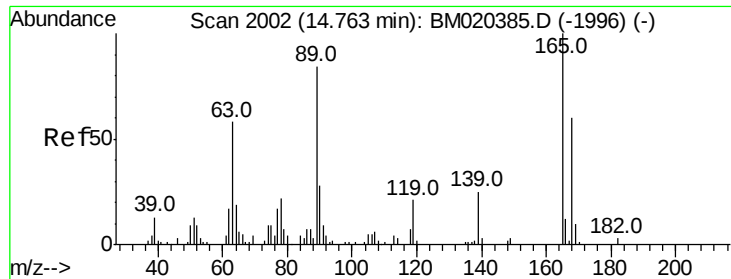
168 100

139 39.2 30.1 45.1



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

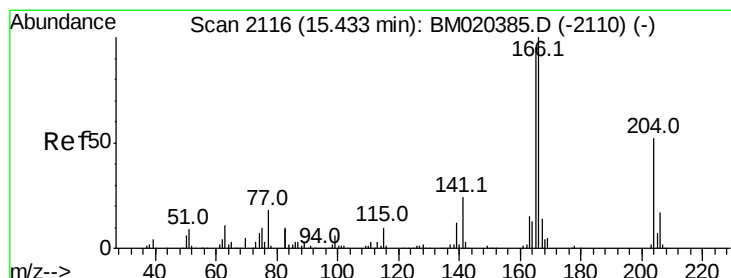
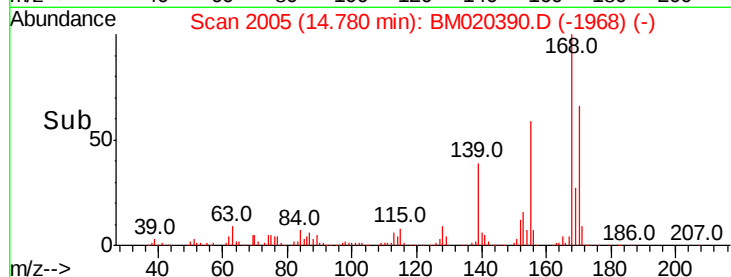
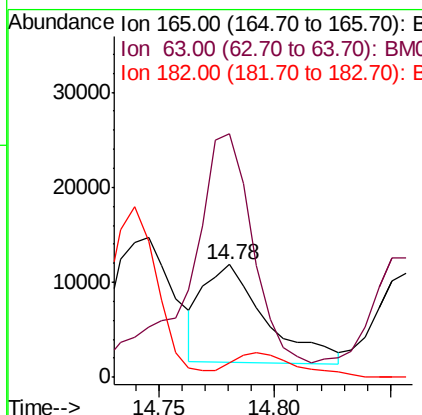
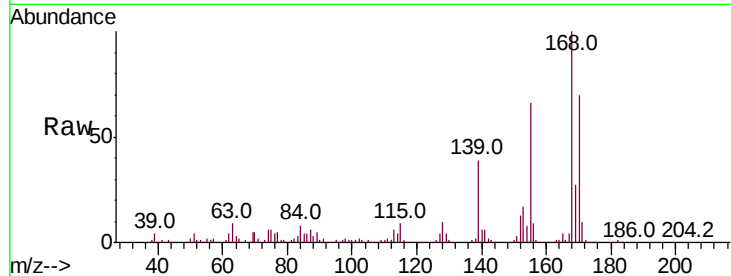




#54
 2,4-Dinitrotoluene
 Concen: 6.001 ng/ul
 RT: 14.78 min Scan# 2005
 Delta R.T. 0.02 min
 Lab File: BM020390.D
 Acq: 18 May 2019 07:34

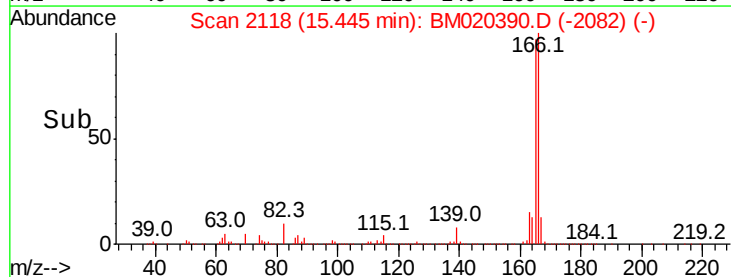
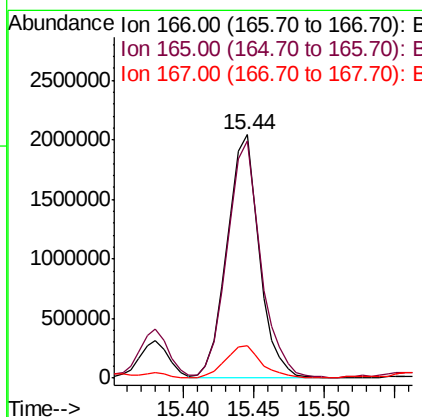
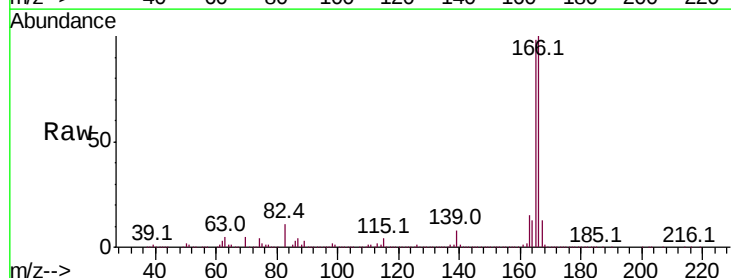
Instrument :
 BNA_M
 ClientSampled :

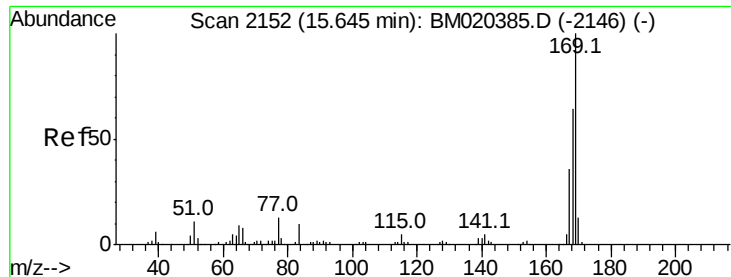
Tot Ion:165 Resp: 19348
 Ion Ratio Lower Upper
 165 100
 63 215.7 43.2 64.8#
 182 12.4 2.6 4.0#



#58
 Fluorene
 Concen: 269.571 ng/ul
 RT: 15.44 min Scan# 2118
 Delta R.T. 0.01 min
 Lab File: BM020390.D
 Acq: 18 May 2019 07:34

Tgt Ion:166 Resp: 3235827
 Ion Ratio Lower Upper
 166 100
 165 97.6 77.1 115.7
 167 13.4 11.1 16.7



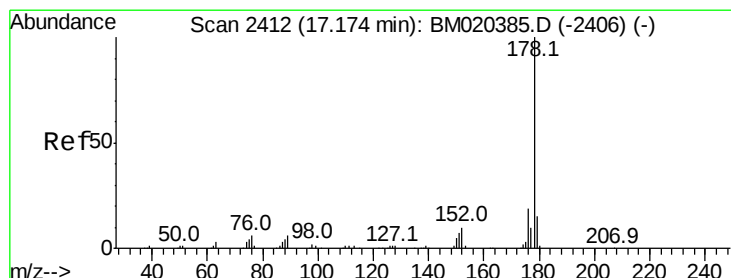
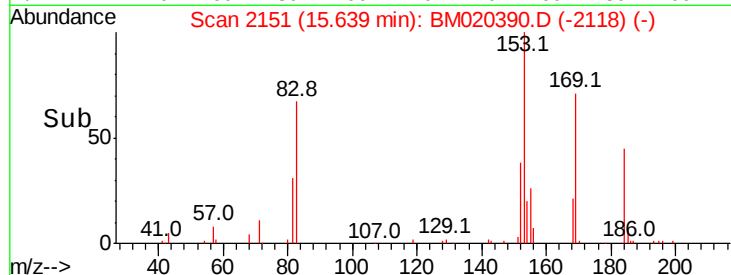
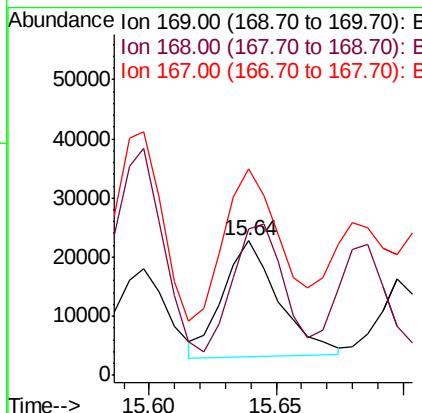
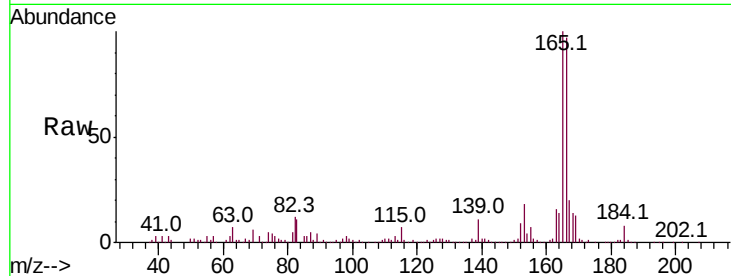


#64

N-Nitrosodiphenylamine
 Concen: 3.265 ng/ul
 RT: 15.64 min Scan# 2151
 Delta R.T. -0.01 min
 Lab File: BM020390.D
 Acq: 18 May 2019 07:34

Instrument :
 BNA_M
 ClientSampled :

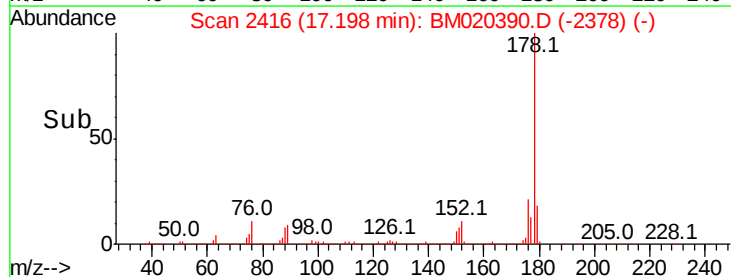
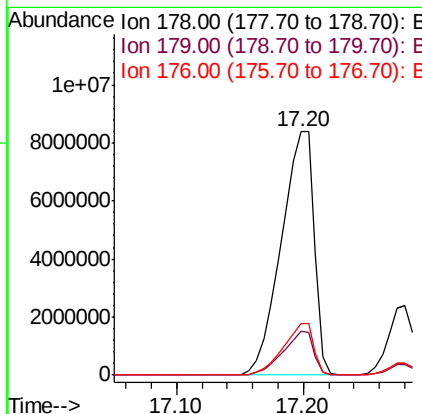
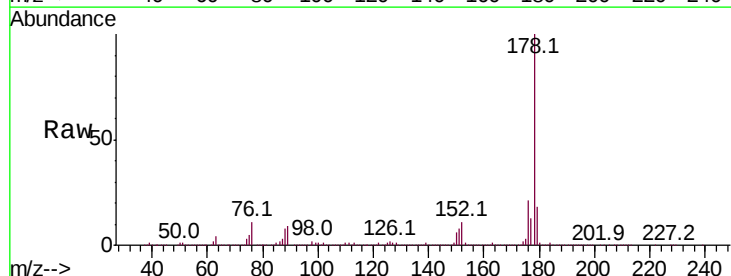
Tot Ion:169 Resp: 29758
 Ion Ratio Lower Upper
 169 100
 168 108.5 53.2 79.8#
 167 153.4 28.2 42.2#

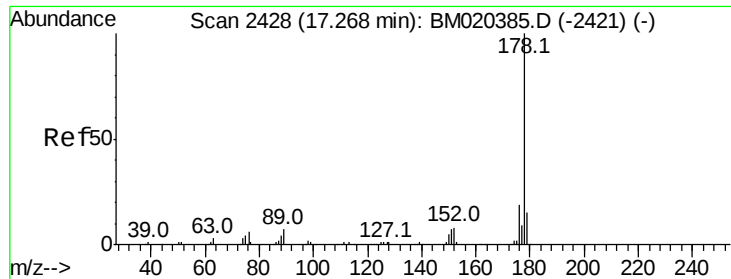


#69

Phenanthrene
 Concen: 861.654 ng/ul
 RT: 17.20 min Scan# 2416
 Delta R.T. 0.02 min
 Lab File: BM020390.D
 Acq: 18 May 2019 07:34

Tgt Ion:178 Resp:15123420
 Ion Ratio Lower Upper
 178 100
 179 17.8 11.9 17.9
 176 21.2 14.6 22.0

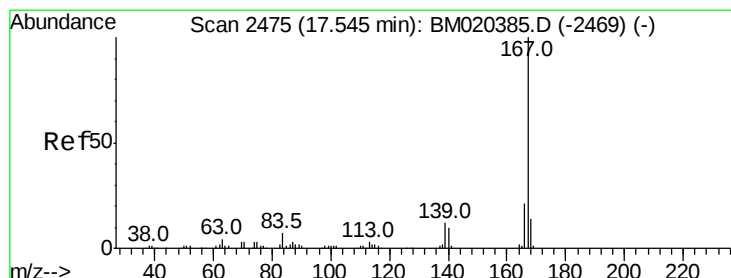
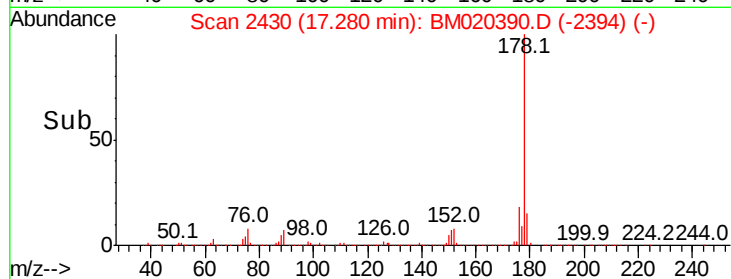
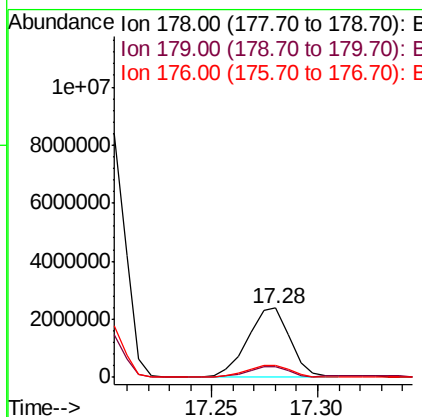
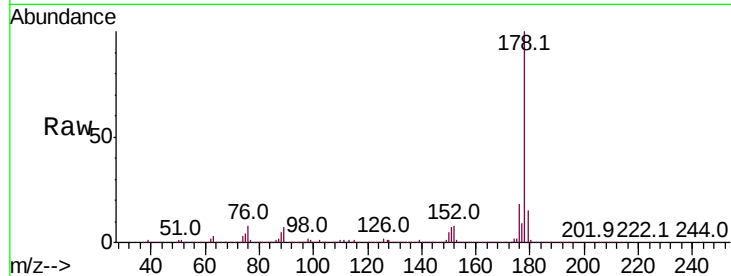




#71
 Anthracene
 Concen: 182.855 ng/ul
 RT: 17.28 min Scan# 2430
 Delta R.T. 0.01 min
 Lab File: BM020390.D
 Acq: 18 May 2019 07:34

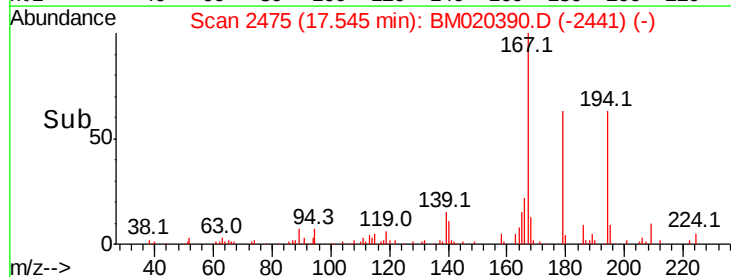
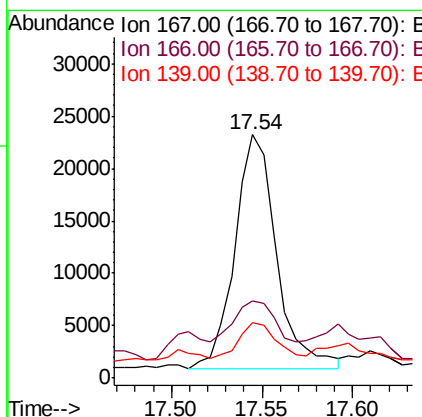
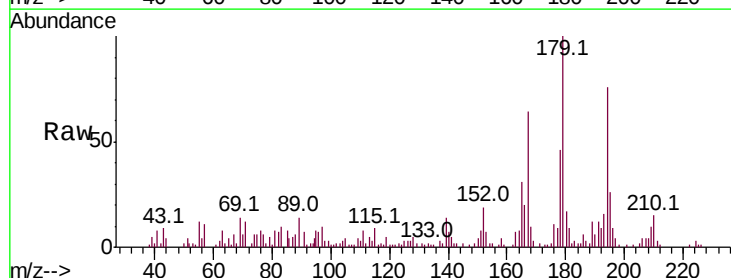
Instrument :
 BNA_M
 ClientSampleId :

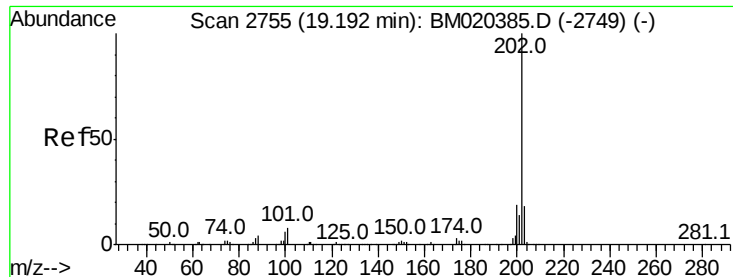
Tot Ion:178 Resp: 3264668
 Ion Ratio Lower Upper
 178 100
 179 15.4 12.4 18.6
 176 17.6 14.4 21.6



#74
 Carbazole
 Concen: 2.375 ng/ul
 RT: 17.54 min Scan# 2475
 Delta R.T. 0.00 min
 Lab File: BM020390.D
 Acq: 18 May 2019 07:34

Tgt Ion:167 Resp: 35987
 Ion Ratio Lower Upper
 167 100
 166 31.6 16.6 24.8#
 139 22.6 9.8 14.8#

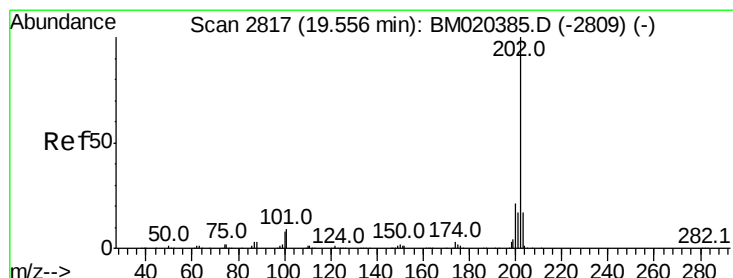
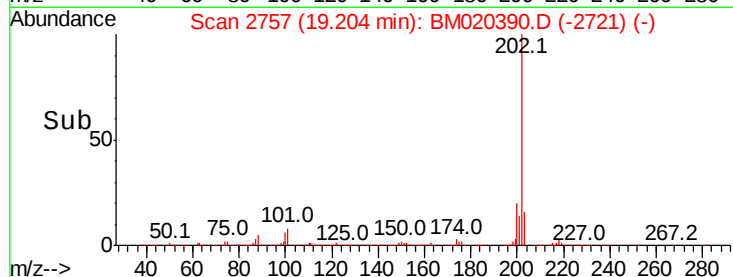
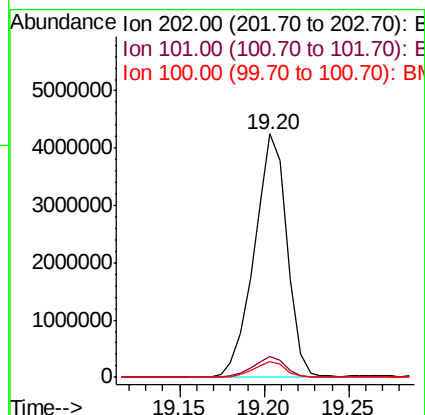
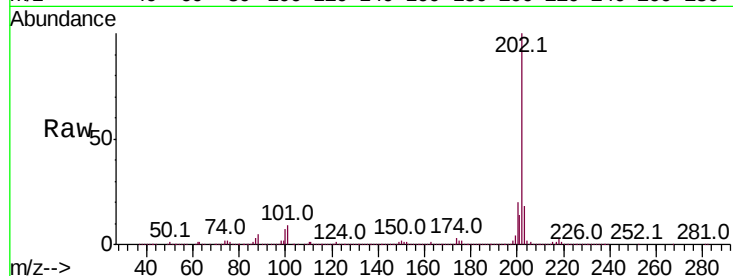




#76
Fluoranthene
Concen: 257.317 ng/ul
RT: 19.20 min Scan# 2757
Delta R.T. 0.01 min
Lab File: BM020390.D
Acq: 18 May 2019 07:34

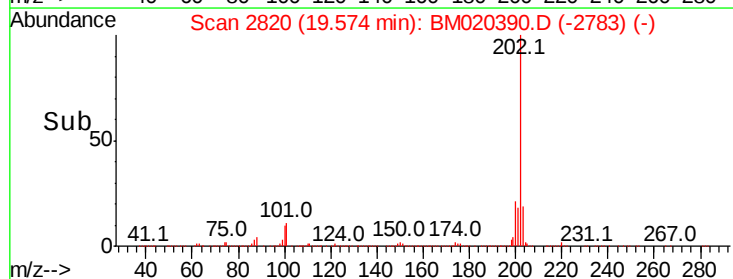
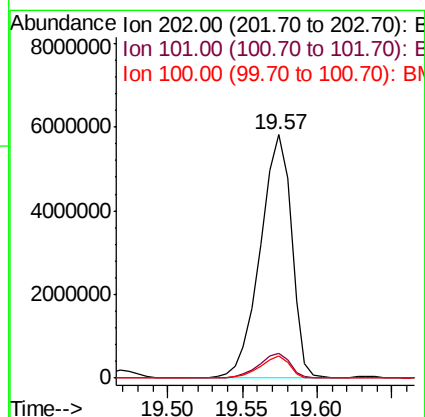
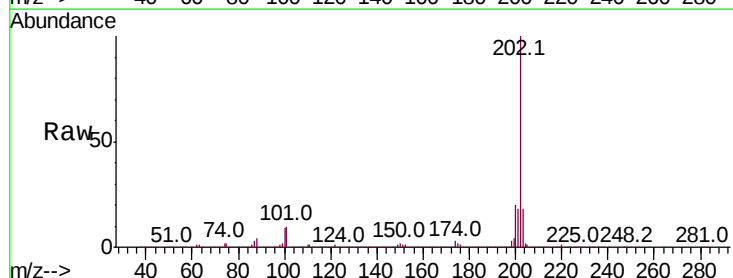
Instrument :
BNA_M
ClientSampled :

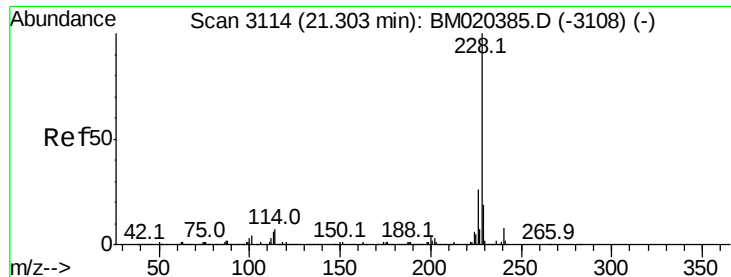
Tot Ion:202 Resp: 5705009
Ion Ratio Lower Upper
202 100
101 8.5 6.4 9.6
100 6.6 5.2 7.8



#79
Pyrene
Concen: 347.991 ng/ul
RT: 19.57 min Scan# 2820
Delta R.T. 0.02 min
Lab File: BM020390.D
Acq: 18 May 2019 07:34

Tgt Ion:202 Resp: 8399979
Ion Ratio Lower Upper
202 100
101 10.3 7.1 10.7
100 8.9 5.9 8.9





#82

Benzo(a)anthracene

Concen: 101.501 ng/ul

RT: 21.37 min Scan# 3125

Delta R.T. 0.06 min

Lab File: BM020390.D

Acq: 18 May 2019 07:34

Instrument :

BNA_M

ClientSampleId :

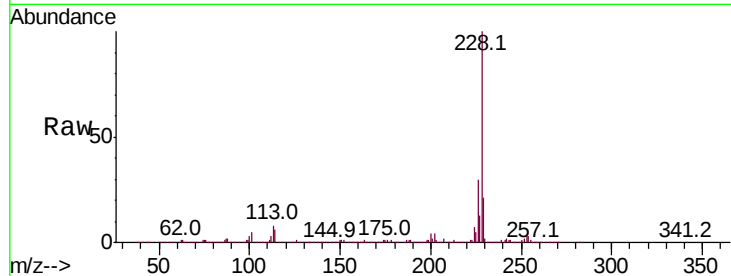
Tot Ion:228 Resp: 2456854

Ion Ratio Lower Upper

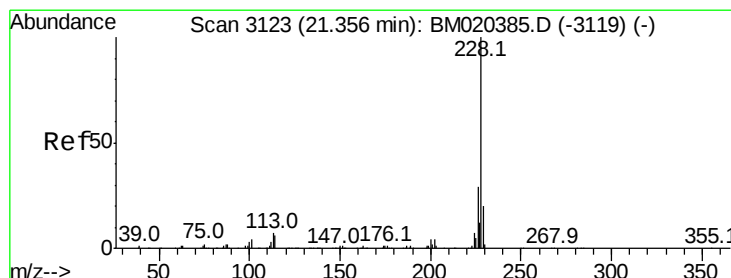
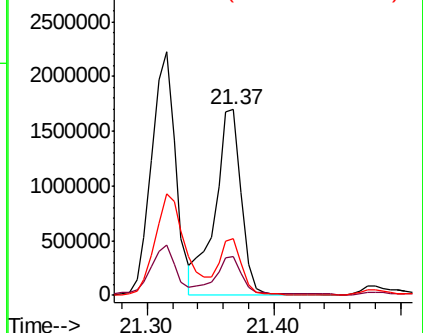
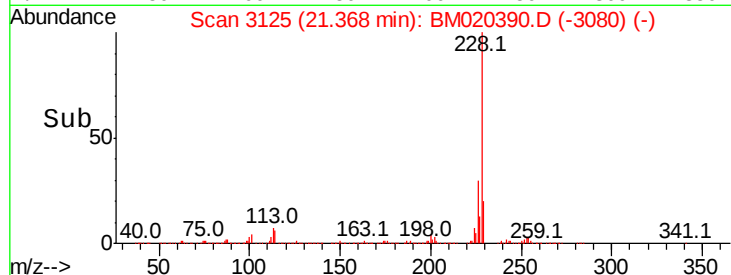
228 100

229 20.9 15.8 23.8

226 30.5 20.6 30.8



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: 106.211 ng/ul

RT: 21.37 min Scan# 3125

Delta R.T. 0.01 min

Lab File: BM020390.D

Acq: 18 May 2019 07:34

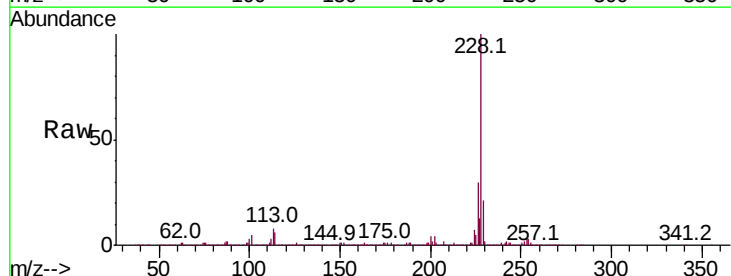
Tgt Ion:228 Resp: 2456854

Ion Ratio Lower Upper

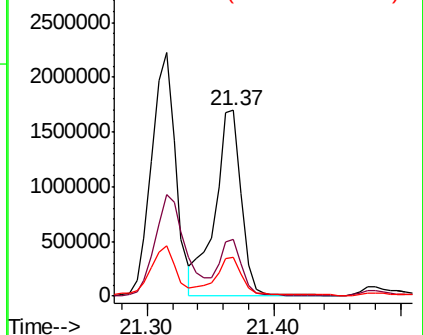
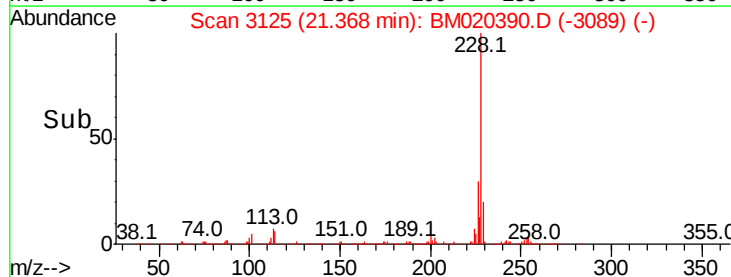
228 100

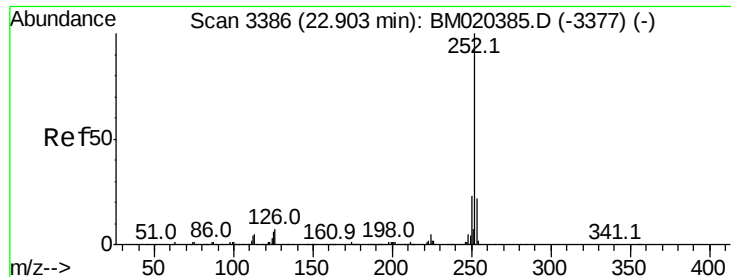
226 30.5 22.2 33.4

229 20.9 15.4 23.2



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: 72.715 ng/ul

RT: 22.92 min Scan# 3388

Delta R.T. 0.01 min

Lab File: BM020390.D

Acq: 18 May 2019 07:34

Instrument :

BNA_M

ClientSampled :

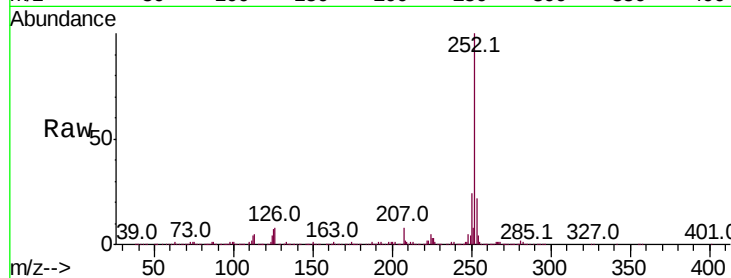
Tot Ion:252 Resp: 1883995

Ion Ratio Lower Upper

252 100

253 22.1 17.0 25.6

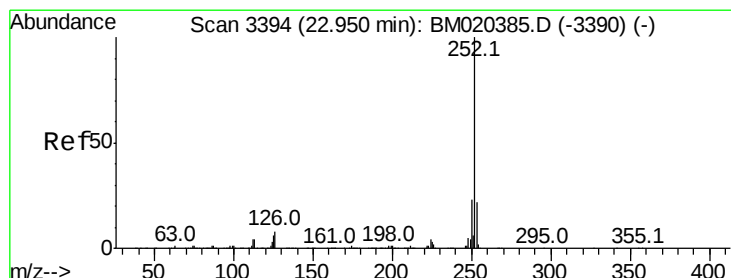
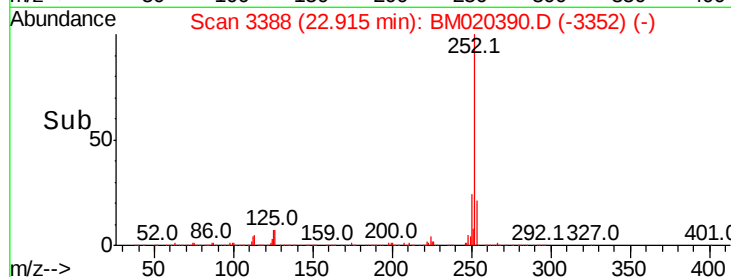
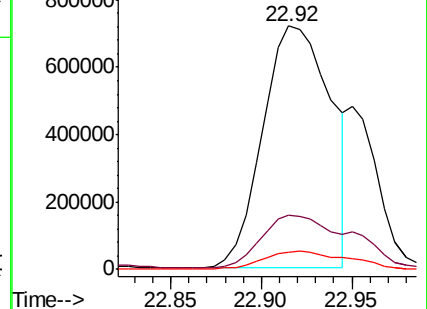
125 7.0 5.0 7.4



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: 74.030 ng/ul

RT: 22.92 min Scan# 3388

Delta R.T. -0.04 min

Lab File: BM020390.D

Acq: 18 May 2019 07:34

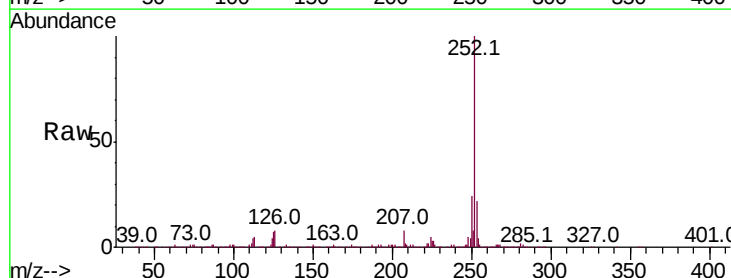
Tgt Ion:252 Resp: 1883995

Ion Ratio Lower Upper

252 100

253 22.1 17.6 26.4

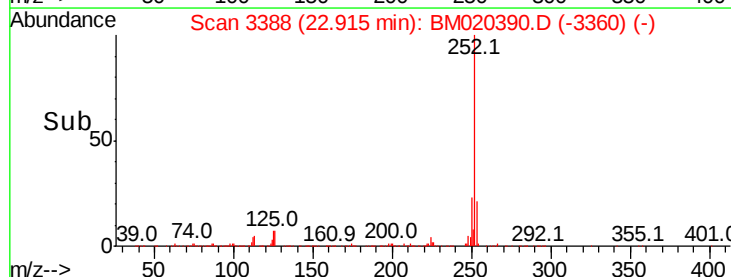
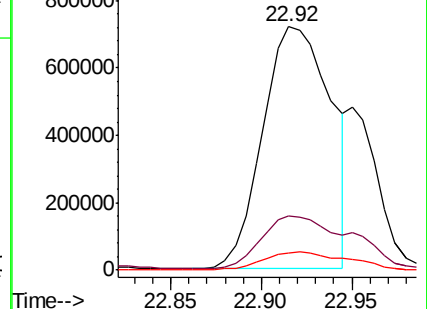
125 7.0 5.0 7.6

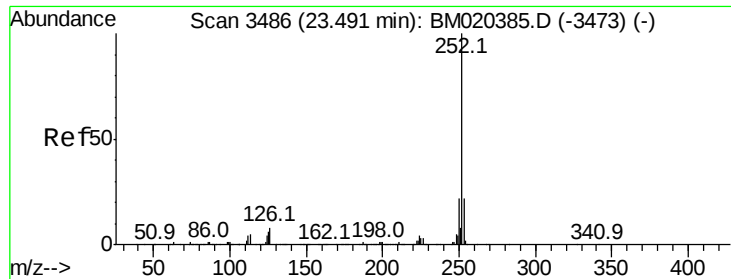


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90

Benzo(a)pyrene

Concen: 92.833 ng/ul

RT: 23.50 min Scan# 3488

Delta R.T. 0.01 min

Lab File: BM020390.D

Acq: 18 May 2019 07:34

Instrument :

BNA_M

ClientSampleId :

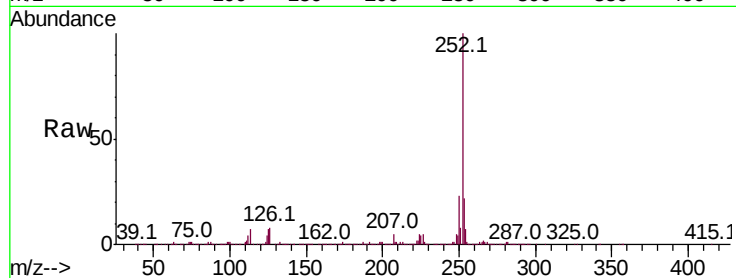
Tot Ion:252 Resp: 2263561

Ion Ratio Lower Upper

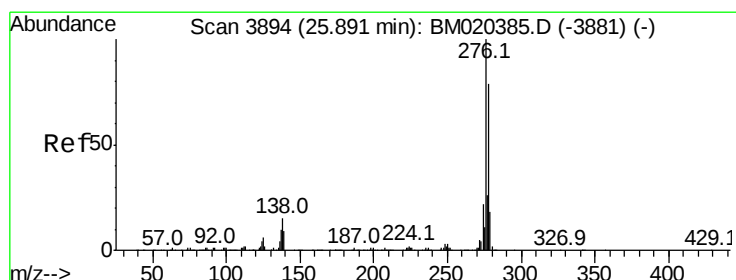
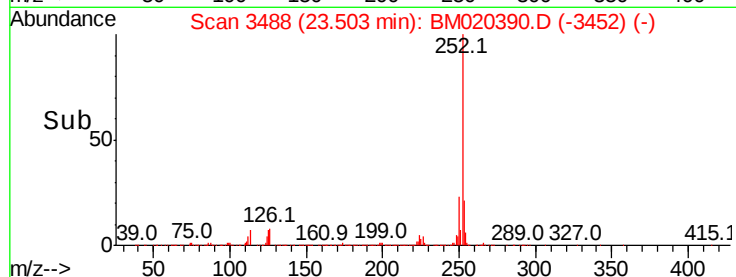
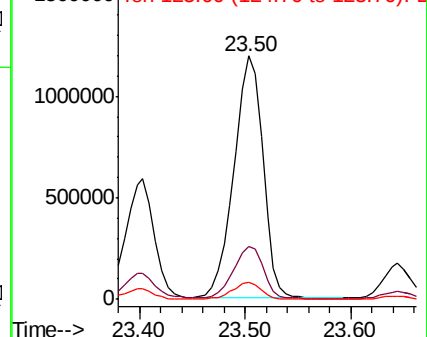
252 100

253 21.9 17.4 26.2

125 6.9 5.4 8.2



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: 31.522 ng/ul

RT: 25.90 min Scan# 3895

Delta R.T. 0.01 min

Lab File: BM020390.D

Acq: 18 May 2019 07:34

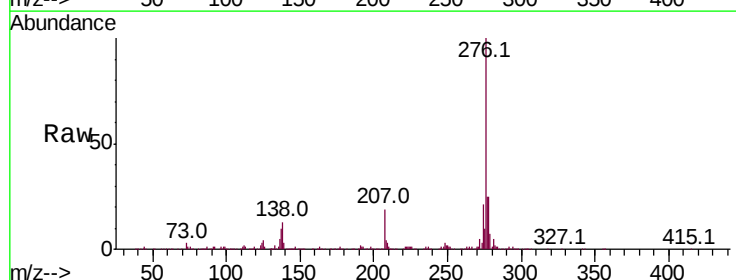
Tgt Ion:276 Resp: 875793

Ion Ratio Lower Upper

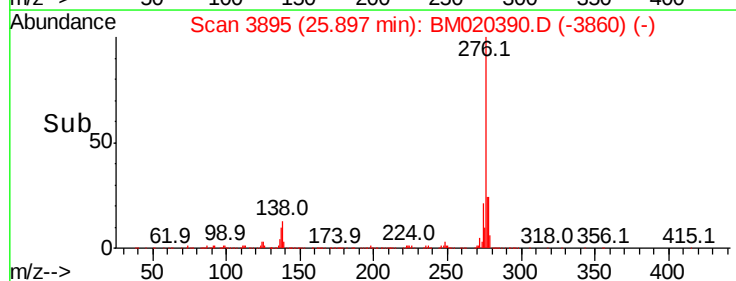
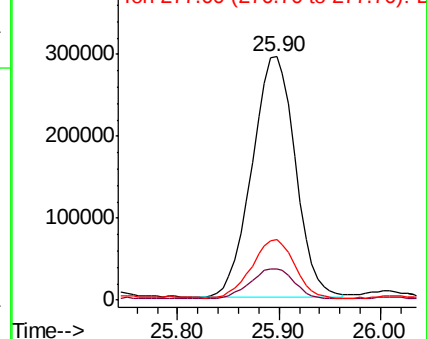
276 100

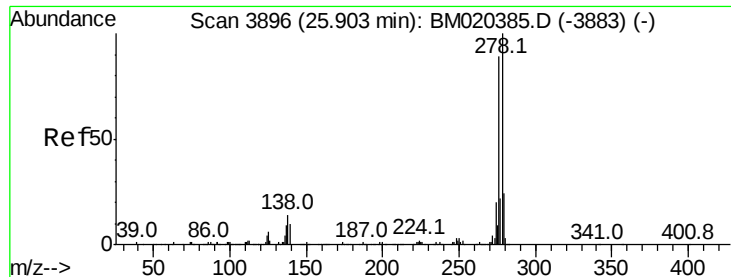
138 12.9 12.3 18.5

277 24.8 20.0 30.0



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



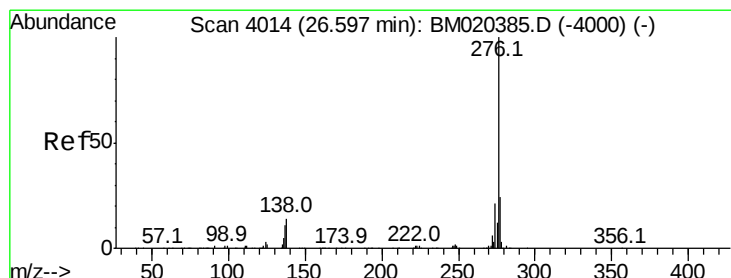
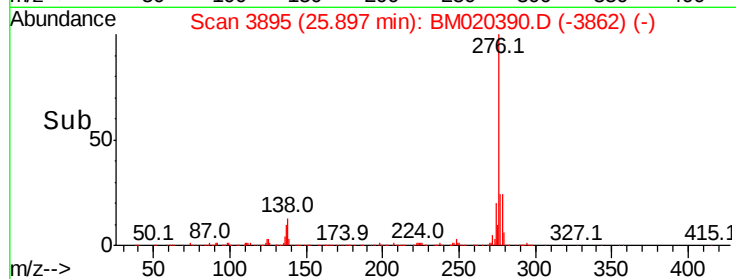
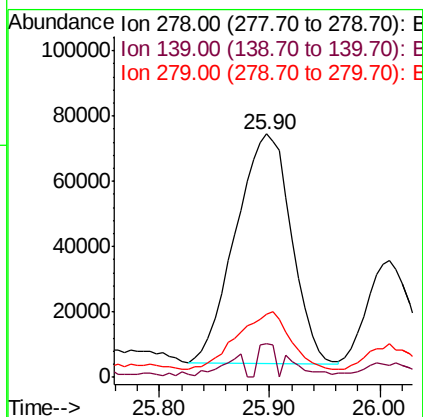
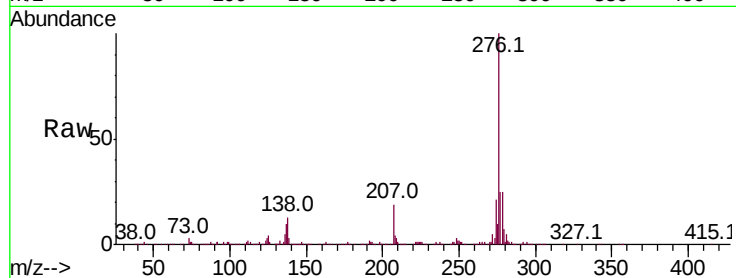


#92

Dibenzo(a,h)anthracene
Concen: 10.417 ng/ul
RT: 25.90 min Scan# 3895
Delta R.T. -0.01 min
Lab File: BM020390.D
Acq: 18 May 2019 07:34

Instrument :
BNA_M
ClientSampleId :

Tot Ion:278 Resp: 247492
Ion Ratio Lower Upper
278 100
139 13.8 8.1 12.1#
279 26.1 18.7 28.1



#93

Benzo(g,h,i)perylene
Concen: 39.998 ng/ul
RT: 26.61 min Scan# 4016
Delta R.T. 0.01 min
Lab File: BM020390.D
Acq: 18 May 2019 07:34

Tgt Ion:276 Resp: 919911
Ion Ratio Lower Upper
276 100
138 13.8 10.0 15.0
277 23.9 18.2 27.4

