

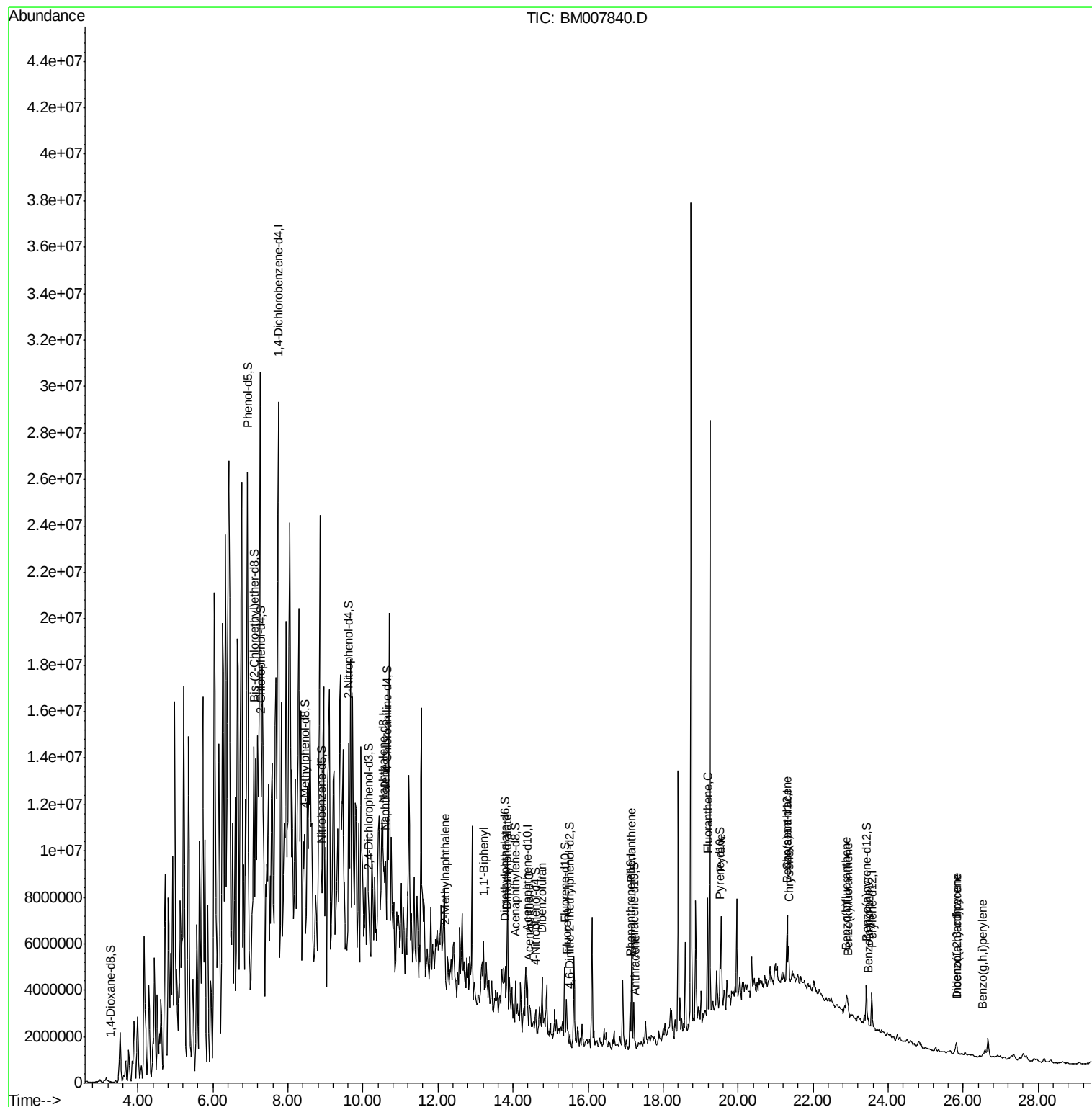
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM111116\
Data File : BM007840.D
Acq On : 11 Nov 2016 23:41
Operator : UM/SJ
Sample : H5610-10
Misc :
ALS Vial : 26 Sample Multiplier: 1

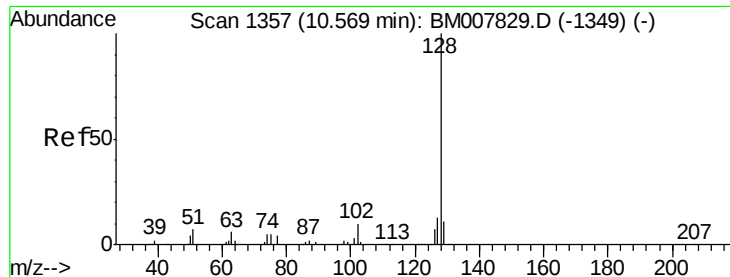
Instrument :
BNA_M
ClientSampled :
BD4M5

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Quant Time: Nov 14 13:10:37 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM102016.M
Quant Title : SVOA CALIBRATION
QLast Update : Sat Nov 12 03:12:55 2016
Response via : Initial Calibration





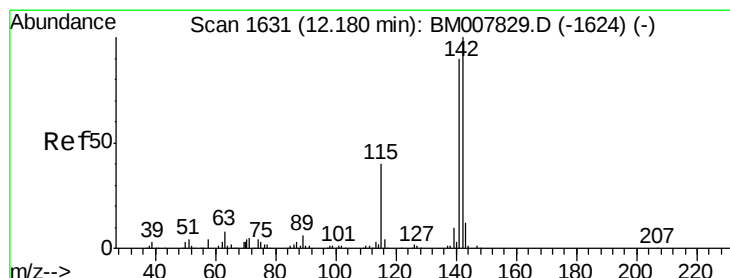
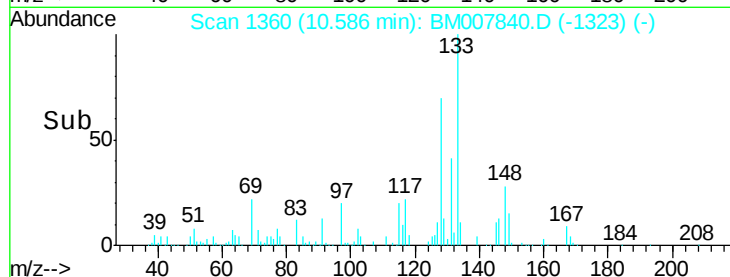
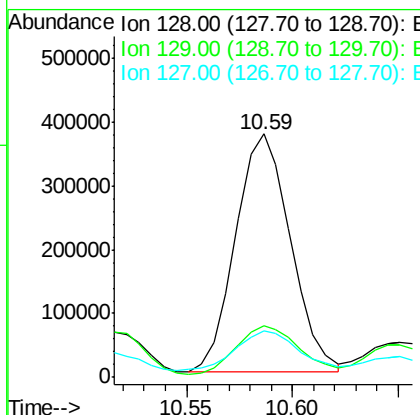
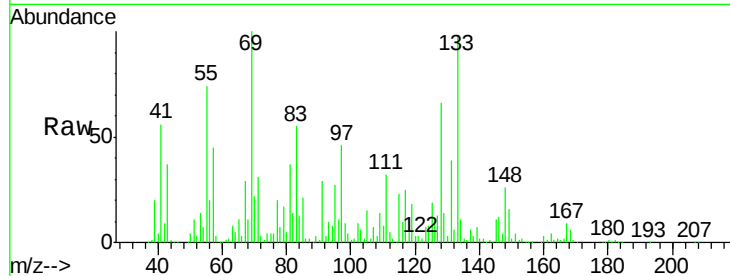
#28
Naphthalene
Concen: 18.13 ng/ul
RT: 10.59 min Scan# 1360
Delta R.T. 0.02 min
Lab File: BM007840.D
Acq: 11 Nov 2016 23:41

Instrument :
BNA_M
ClientSampleId :
BD4M5

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	676255		
129	21.2	8.6	12.8#	
127	19.0	10.6	15.8#	

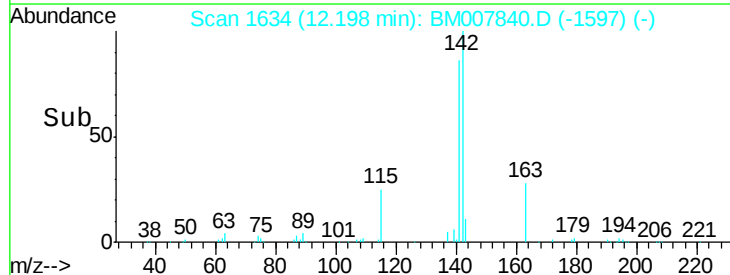
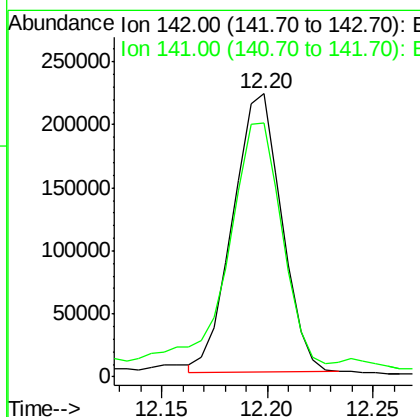
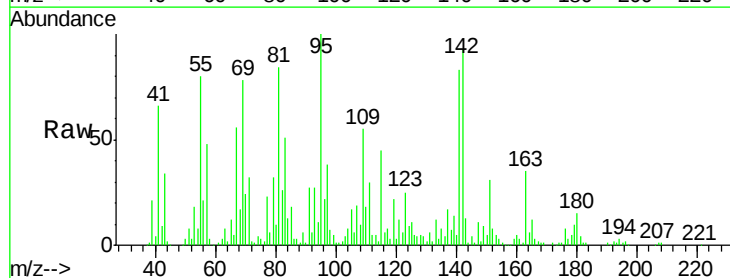
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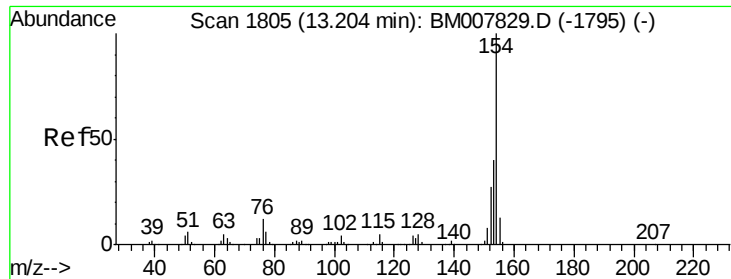
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#34
2-Methylnaphthalene
Concen: 13.39 ng/ul
RT: 12.20 min Scan# 1634
Delta R.T. 0.02 min
Lab File: BM007840.D
Acq: 11 Nov 2016 23:41

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	355193		
141	89.5	71.3	106.9	





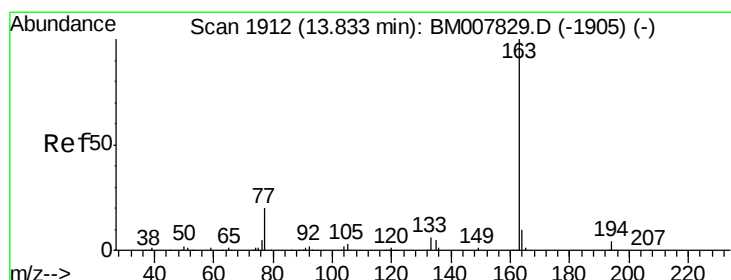
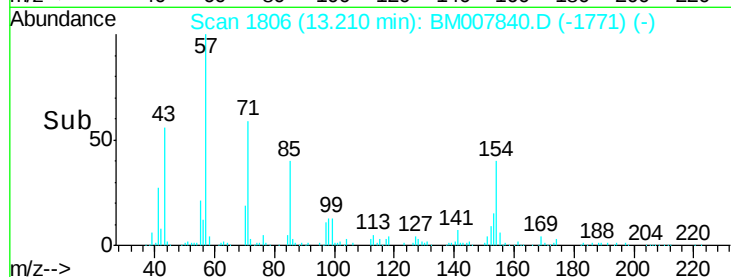
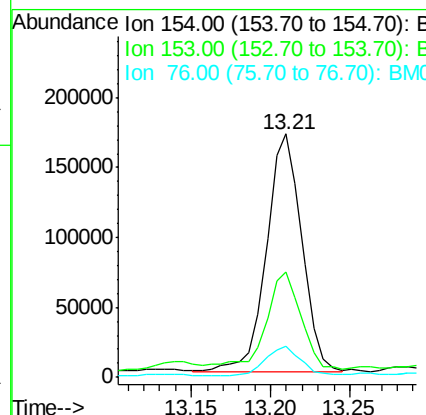
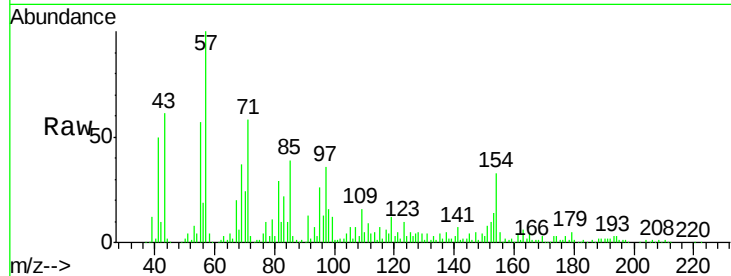
#40
1,1'-Biphenyl
Concen: 7.50 ng/ul
RT: 13.21 min Scan# 1806
Delta R.T. 0.01 min
Lab File: BM007840.D
Acq: 11 Nov 2016 23:41

Instrument :
BNA_M
ClientSampled :
BD4M5

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	263615		
153	43.1	31.3	46.9	
76	12.9	10.0	15.0	

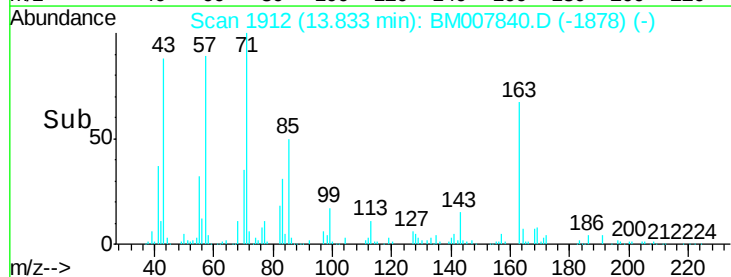
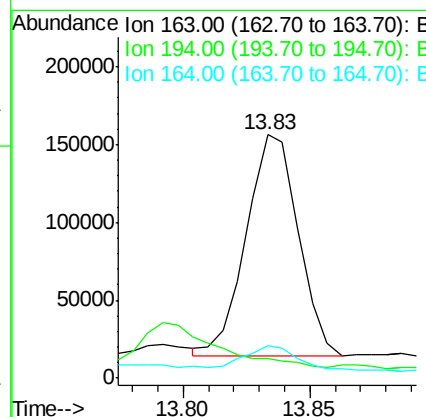
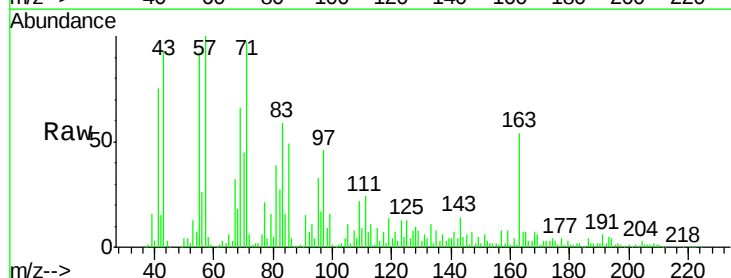
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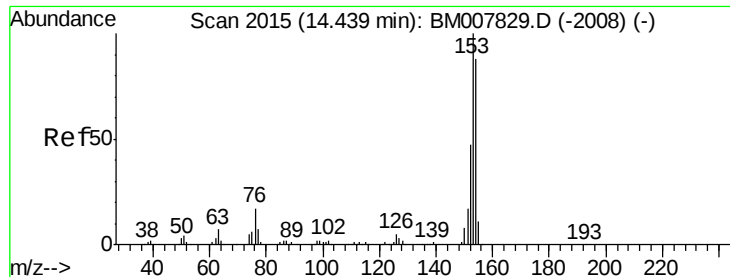
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#44
Dimethylphthalate
Concen: 6.13 ng/ul
RT: 13.83 min Scan# 1912
Delta R.T. 0.00 min
Lab File: BM007840.D
Acq: 11 Nov 2016 23:41

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	201929		
194	8.3	3.4	5.2#	
164	13.1	7.8	11.8#	





#49

Acenaphthene

Concen: 2.56 ng/ul

RT: 14.44 min Scan# 2016

Delta R.T. 0.01 min

Lab File: BM007840.D

Acq: 11 Nov 2016 23:41

Instrument :

BNA_M

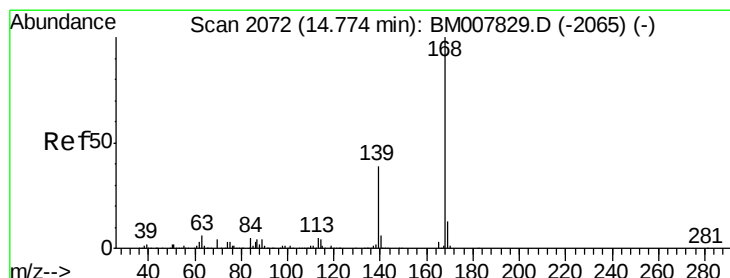
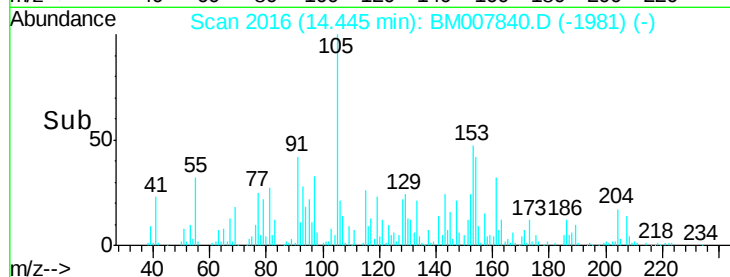
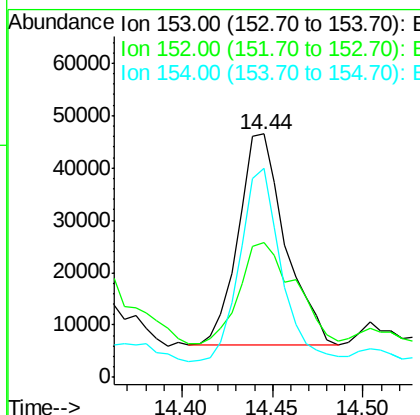
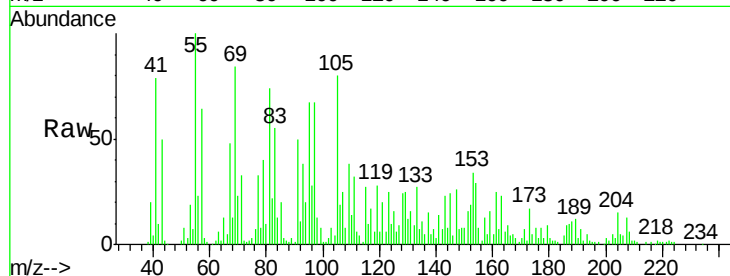
ClientSampleId :

BD4M5

Tgt Ion:	153	Resp:	73117
Ion Ratio	Lower	Upper	
153	100		
152	55.3	37.8	56.6
154	85.9	71.4	107.0

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#53

Dibenzofuran

Concen: 12.38 ng/ul

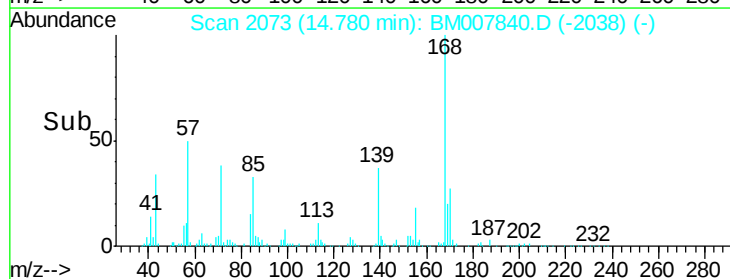
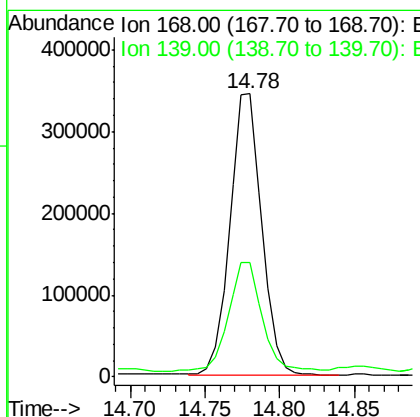
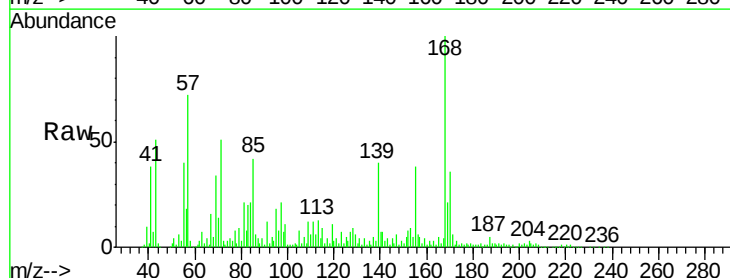
RT: 14.78 min Scan# 2073

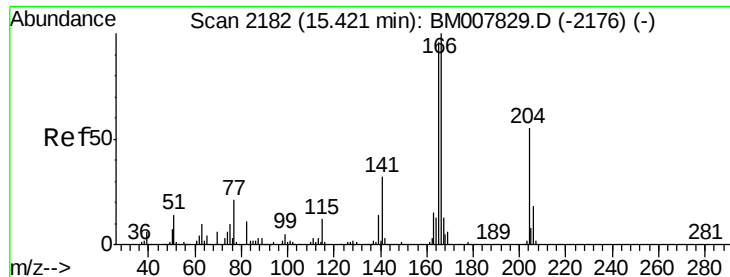
Delta R.T. 0.01 min

Lab File: BM007840.D

Acq: 11 Nov 2016 23:41

Tgt Ion:	168	Resp:	507992
Ion Ratio	Lower	Upper	
168	100		
139	40.5	30.1	45.1





#58

Fluorene

Concen: 19.37 ng/ul

RT: 15.43 min Scan# 2183

Delta R.T. 0.01 min

Lab File: BM007840.D

Acq: 11 Nov 2016 23:41

Instrument :

BNA_M

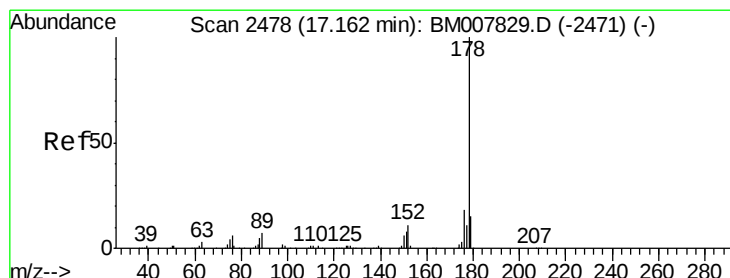
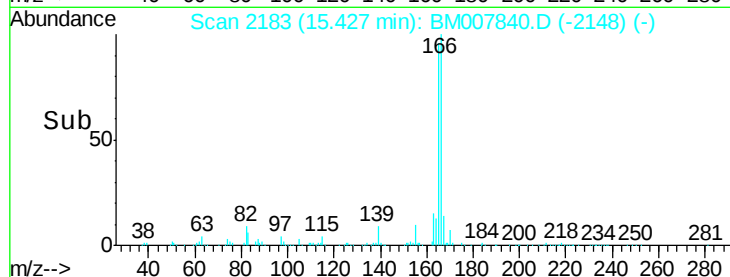
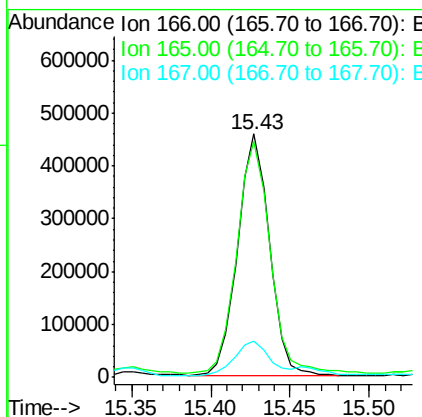
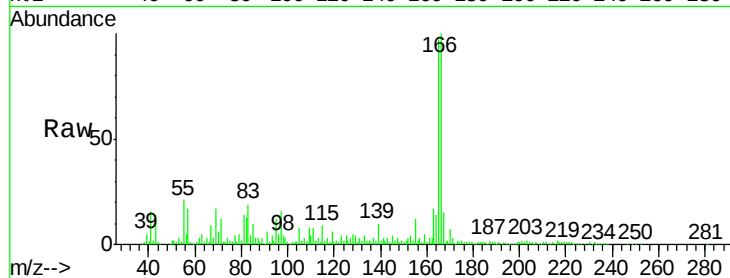
ClientSampleId :

BD4M5

Tgt Ion	Ratio	Lower	Upper
166	100		
165	97.0	79.9	119.9
167	15.1	10.5	15.7

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#69

Phenanthrene

Concen: 61.27 ng/ul

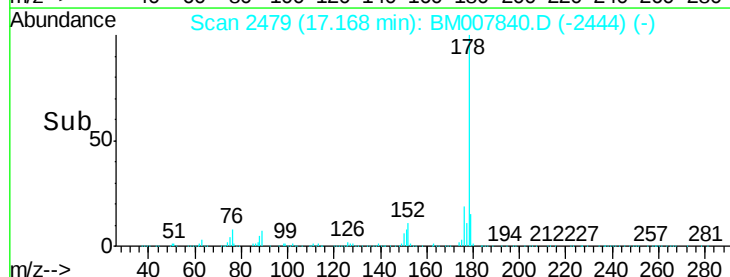
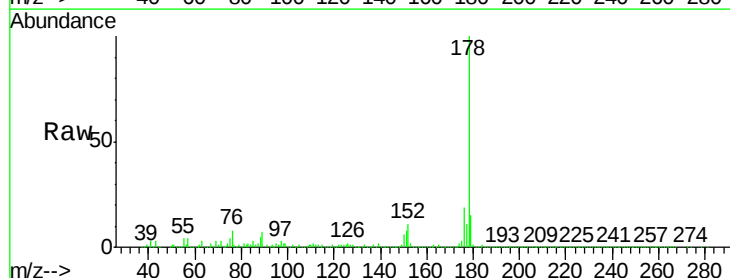
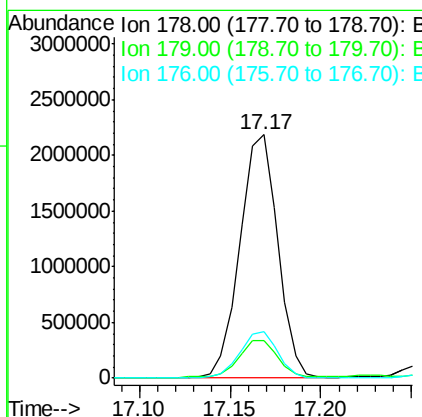
RT: 17.17 min Scan# 2479

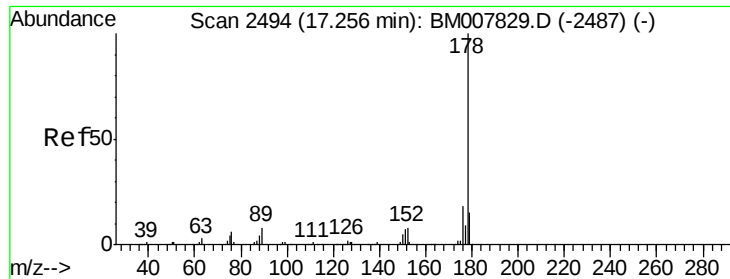
Delta R.T. 0.01 min

Lab File: BM007840.D

Acq: 11 Nov 2016 23:41

Tgt Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.2	18.2
176	19.1	15.1	22.7





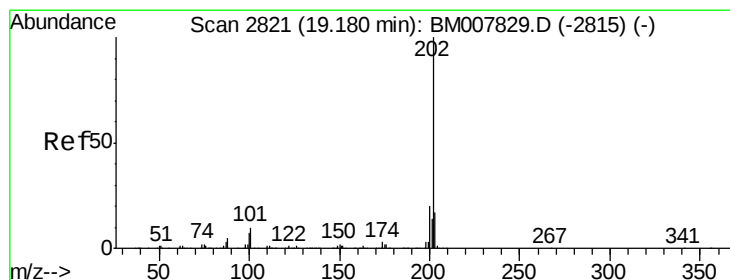
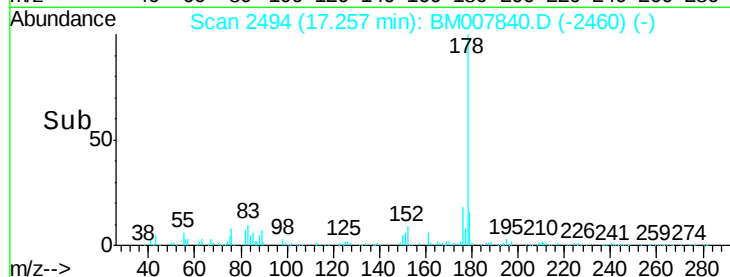
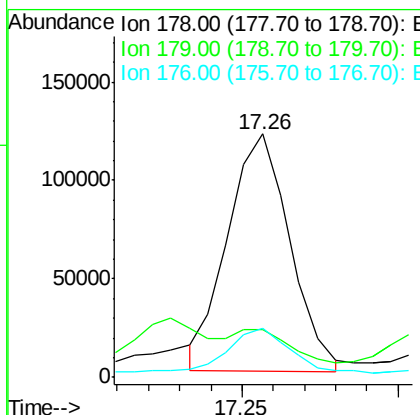
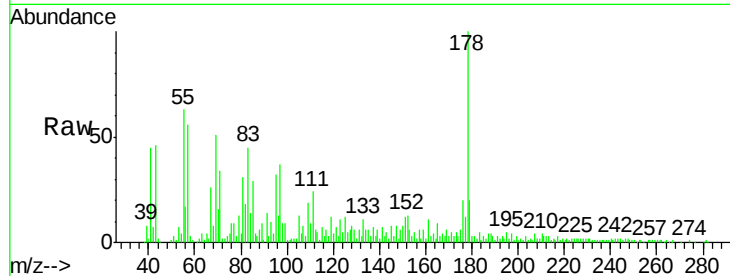
#71
 Anthracene
 Concen: 3.18 ng/ul m
 RT: 17.26 min Scan# 2494
 Delta R.T. 0.00 min
 Lab File: BM007840.D
 Acq: 11 Nov 2016 23:41

Instrument :
 BNA_M
 ClientSampleId :
 BD4M5

Tgt Ion	Ratio	Lower	Upper
178	100		
179	19.6	12.1	18.1#
176	20.0	14.5	21.7

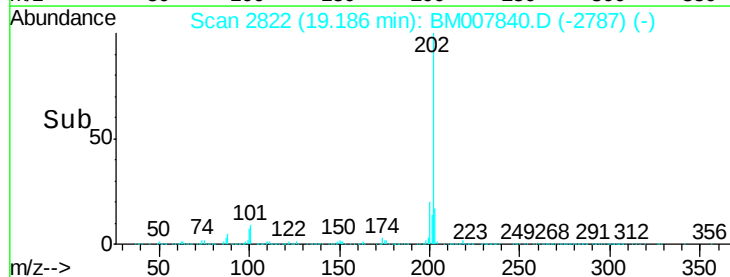
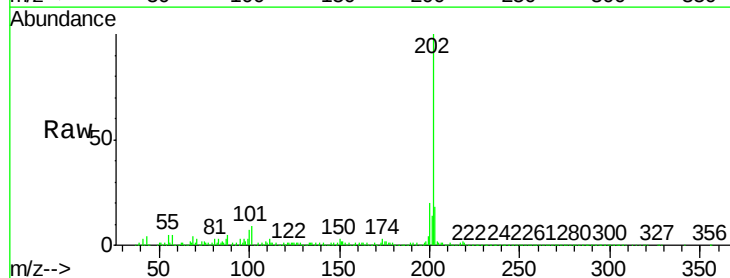
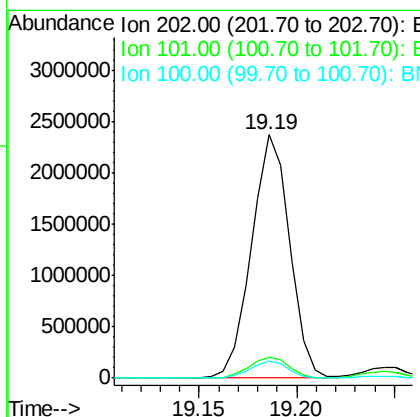
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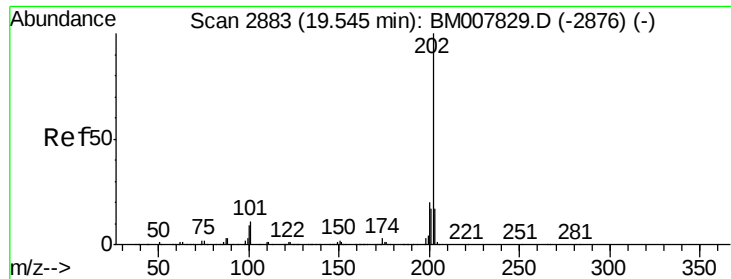
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#74
 Fluoranthene
 Concen: 52.98 ng/ul
 RT: 19.19 min Scan# 2822
 Delta R.T. 0.01 min
 Lab File: BM007840.D
 Acq: 11 Nov 2016 23:41

Tgt Ion	Ratio	Lower	Upper
202	100		
101	8.8	6.9	10.3
100	6.9	5.4	8.0





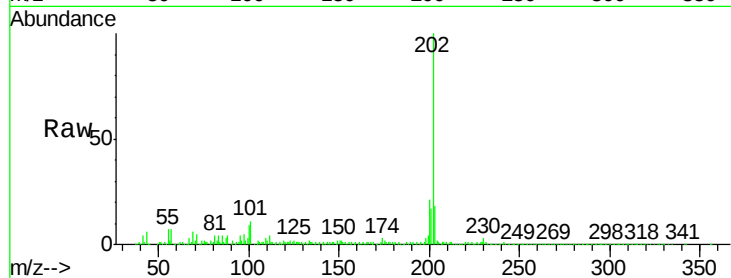
#77
 Pyrene
 Concen: 39.82 ng/ul
 RT: 19.55 min Scan# 2884
 Delta R.T. 0.01 min
 Lab File: BM007840.D
 Acq: 11 Nov 2016 23:41

Instrument :
 BNA_M
 ClientSampled :
 BD4M5

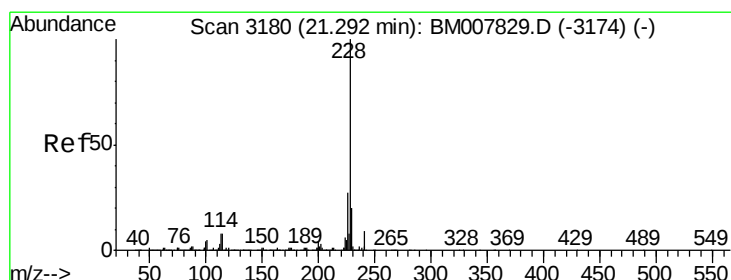
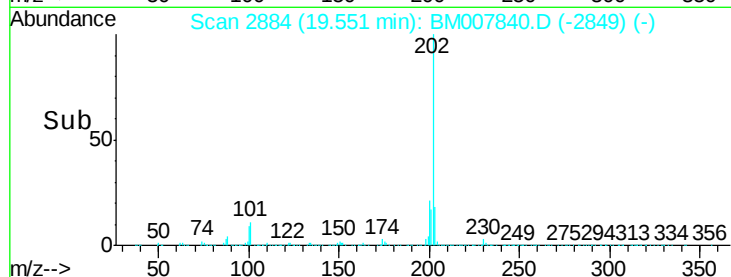
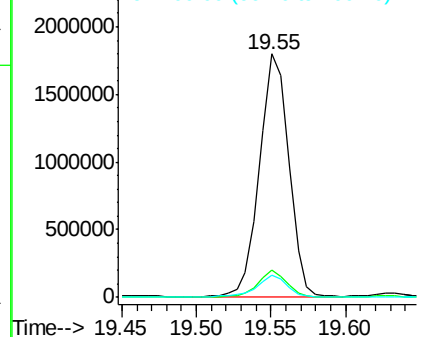
Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.1	8.4	12.6
100	9.0	6.9	10.3

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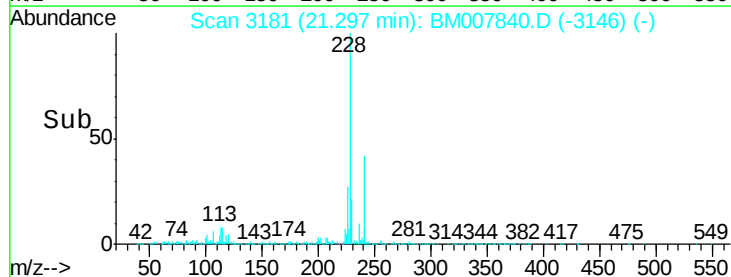
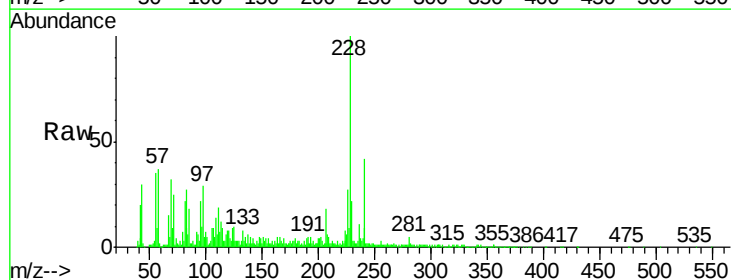
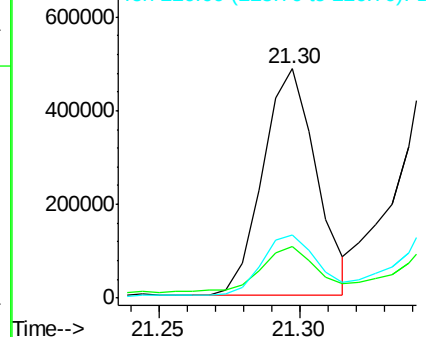
Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 100.00 (99.70 to 100.70): B

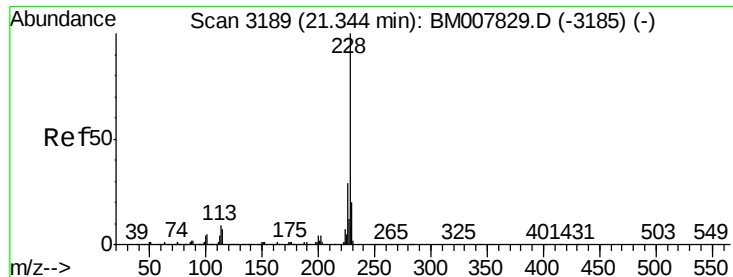


#80
 Benzo(a)anthracene
 Concen: 10.09 ng/ul
 RT: 21.30 min Scan# 3181
 Delta R.T. 0.01 min
 Lab File: BM007840.D
 Acq: 11 Nov 2016 23:41

Tgt Ion	Ratio	Lower	Upper
228	100		
229	22.4	15.6	23.4
226	27.5	21.8	32.8

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





#82

Chrysene

Concen: 14.17 ng/ul

RT: 21.35 min Scan# 3190

Delta R.T. 0.01 min

Lab File: BM007840.D

Acq: 11 Nov 2016 23:41

Instrument :

BNA_M

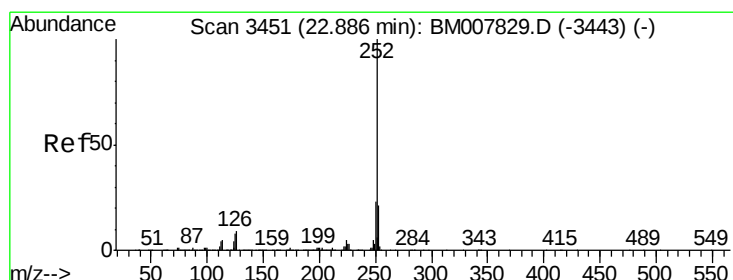
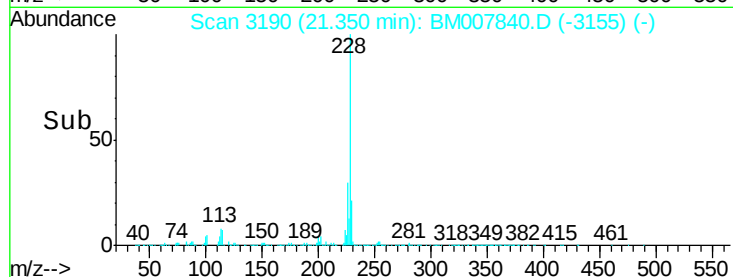
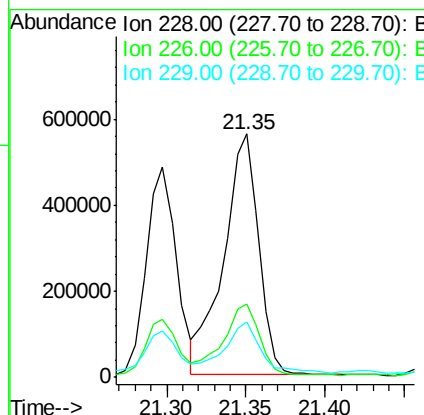
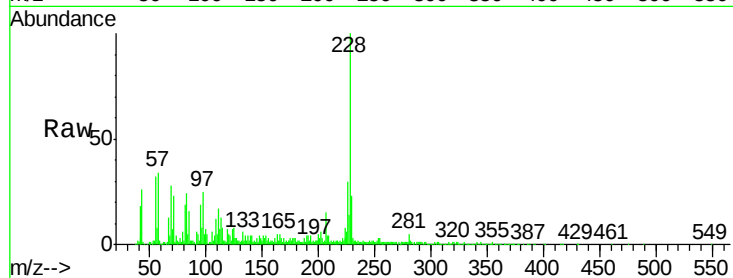
ClientSampleId :

BD4M5

Tgt Ion:	228	Resp:	857025
Ion Ratio	Lower	Upper	
228	100		
226	30.3	23.4	35.2
229	22.7	15.5	23.3

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#85

Benzo(b)fluoranthene

Concen: 10.89 ng/ul

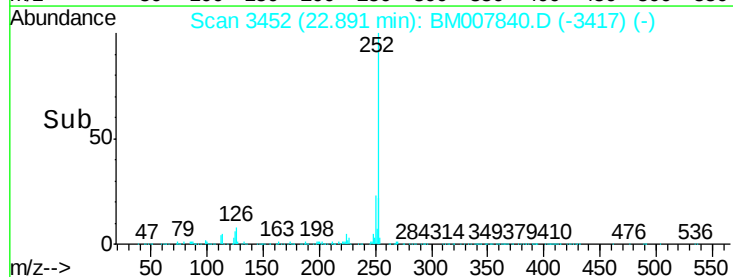
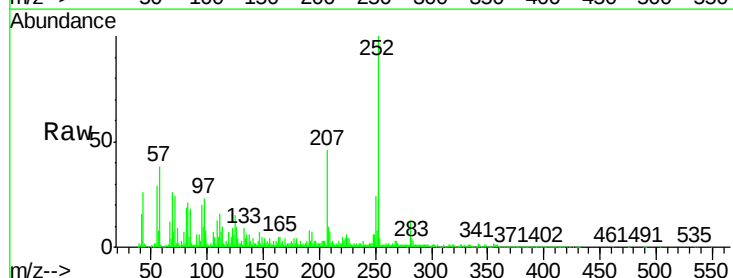
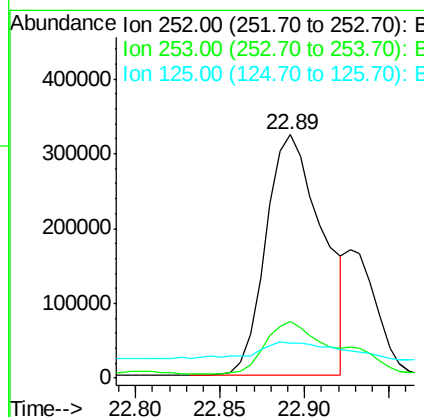
RT: 22.89 min Scan# 3452

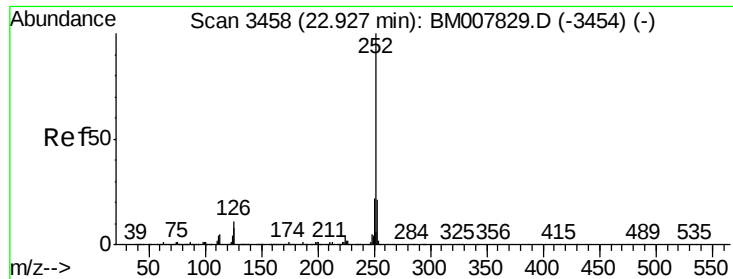
Delta R.T. 0.01 min

Lab File: BM007840.D

Acq: 11 Nov 2016 23:41

Tgt Ion:	252	Resp:	748739
Ion Ratio	Lower	Upper	
252	100		
253	23.1	17.1	25.7
125	14.6	5.8	8.8#





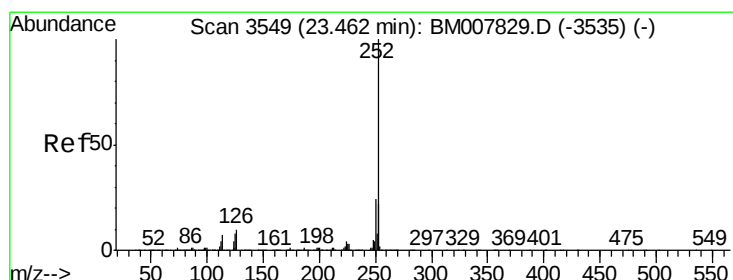
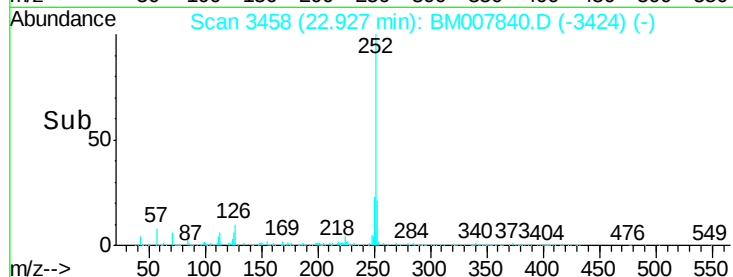
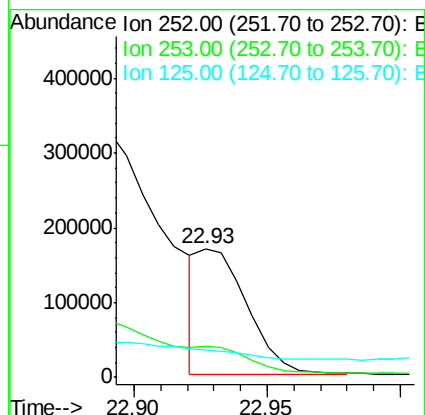
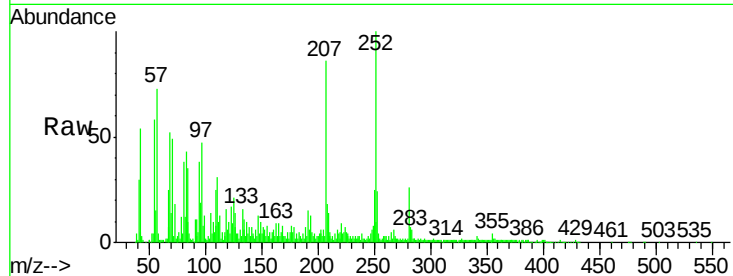
#86
Benzo(k)fluoranthene
Concen: 3.37 ng/ul m
RT: 22.93 min Scan# 3458
Delta R.T. 0.00 min
Lab File: BM007840.D
Acq: 11 Nov 2016 23:41

Instrument :
BNA_M
ClientSampleId :
BD4M5

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	213095		
253	23.7	17.6	26.4	
125	21.1	5.7	8.5#	

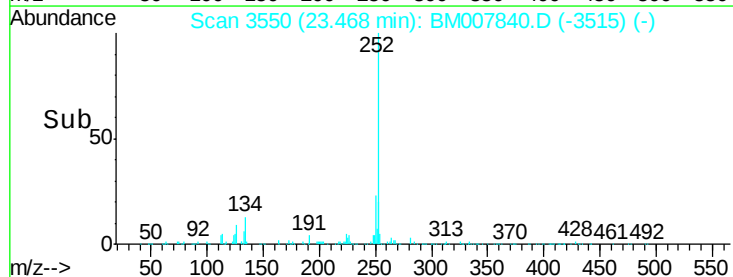
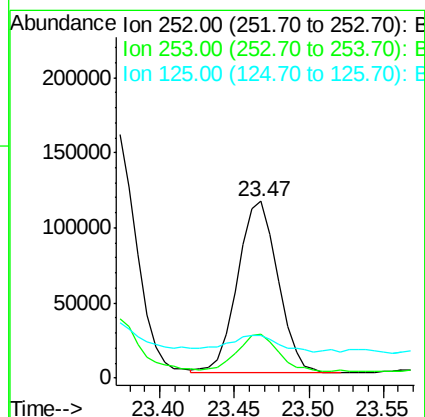
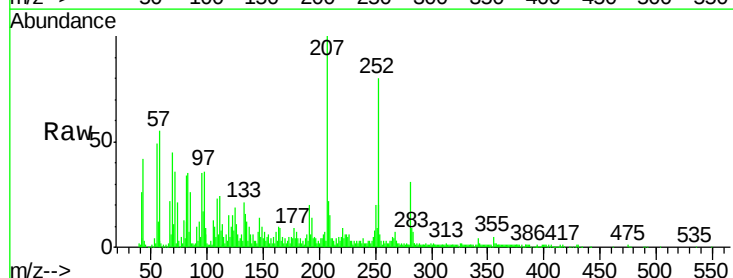
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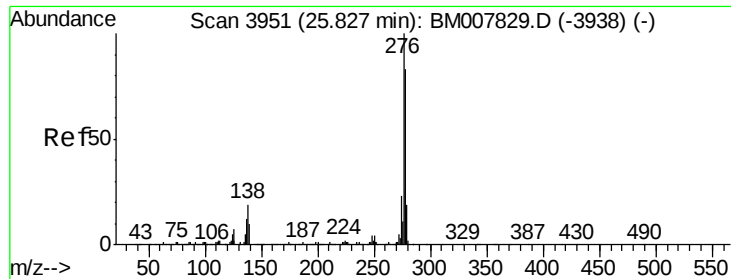
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#88
Benzo(a)pyrene
Concen: 3.33 ng/ul
RT: 23.47 min Scan# 3550
Delta R.T. 0.01 min
Lab File: BM007840.D
Acq: 11 Nov 2016 23:41

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	215740		
253	25.1	17.7	26.5	
125	24.4	6.6	9.8#	





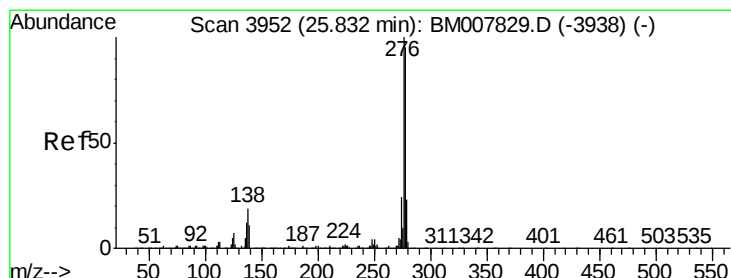
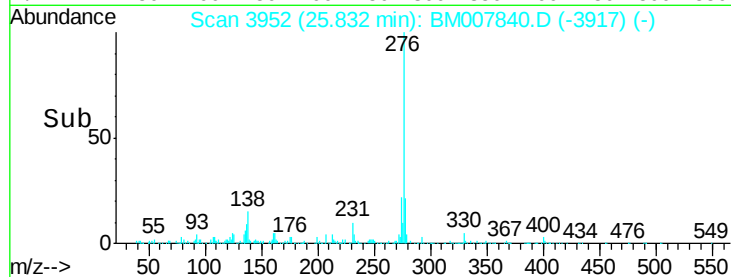
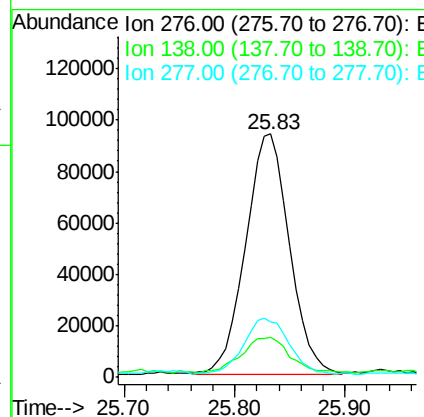
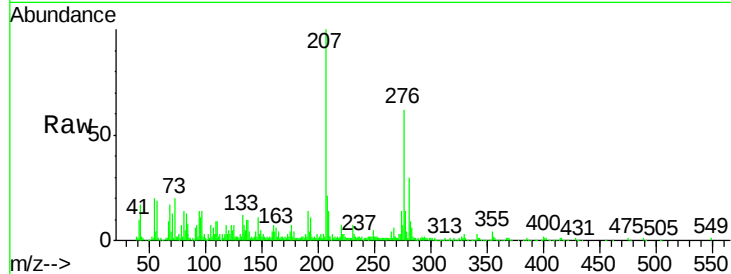
#89
 Indeno(1,2,3-cd)pyrene
 Concen: 3.35 ng/ul
 RT: 25.83 min Scan# 3952
 Delta R.T. 0.01 min
 Lab File: BM007840.D
 Acq: 11 Nov 2016 23:41

Instrument :
 BNA_M
 ClientSampleId :
 BD4M5

Tgt Ion	Ratio	Lower	Upper
276	100		
138	16.7	13.9	20.9
277	22.6	20.1	30.1

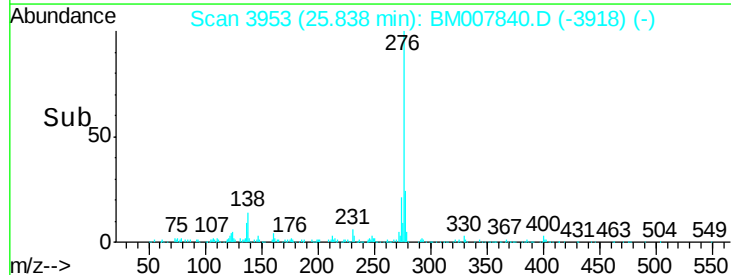
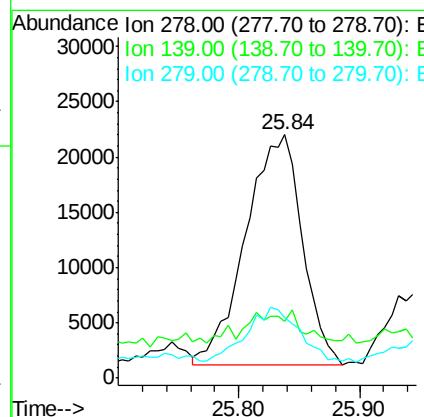
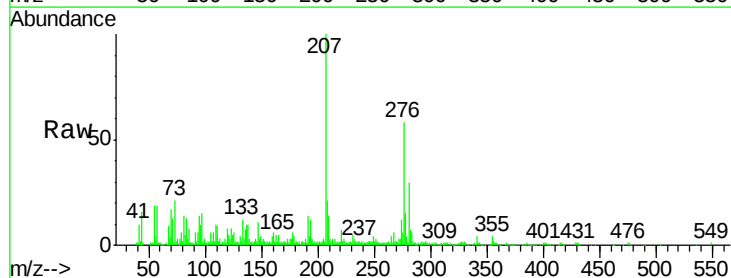
Manual Integrations
 APPROVED

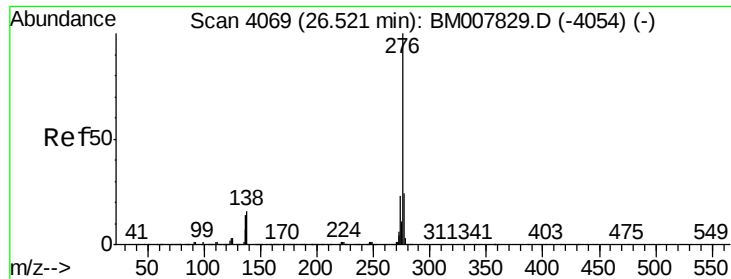
sohil
 11/14/2016 6:38:53 PM



#90
 Dibenzo(a,h)anthracene
 Concen: 1.03 ng/ul
 RT: 25.84 min Scan# 3953
 Delta R.T. 0.01 min
 Lab File: BM007840.D
 Acq: 11 Nov 2016 23:41

Tgt Ion	Ratio	Lower	Upper
278	100		
139	23.3	9.5	14.3#
279	24.8	19.1	28.7





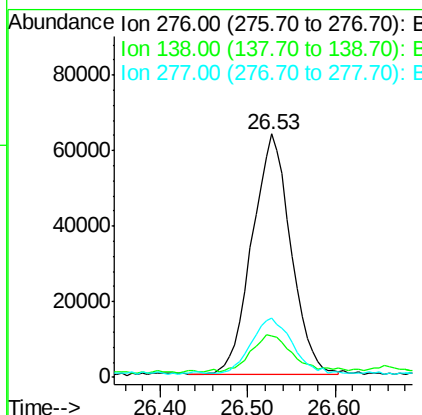
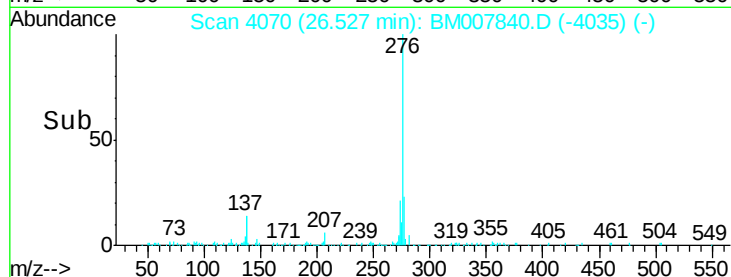
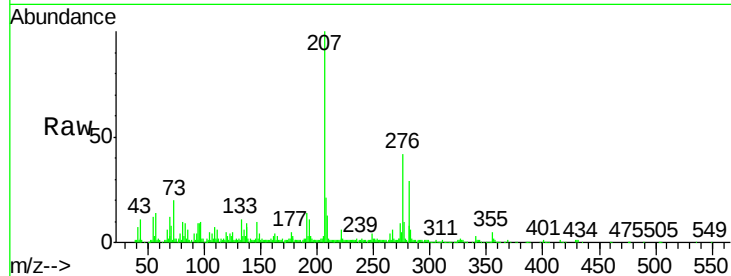
#91
 Benzo(g,h,i)perylene
 Concen: 2.98 ng/ul
 RT: 26.53 min Scan# 4070
 Delta R.T. 0.01 min
 Lab File: BM007840.D
 Acq: 11 Nov 2016 23:41

Instrument :
 BNA_M
 ClientSampleId :
 BD4M5

Tgt Ion:	276	Resp:	194308
Ion Ratio	Lower	Upper	
276	100		
138	16.8	13.5	20.3
277	24.5	19.3	28.9

Manual Integrations
 APPROVED

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Data Path : Z:\HPCHEM1\BNA_M\DATA\BM111116\
 Data File : BM007840.D
 Acq On : 11 Nov 2016 23:41
 Operator : UM/SJ
 Sample : H5610-10
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 BD4M5

Manual Integrations
 APPROVED

sohil
 11/14/2016 6:38:53 PM

Quant Time: Nov 14 13:10:37 2016
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM102016.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Sat Nov 12 03:12:55 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.76	152	188429	20.00	ng/ul	0.02
18) Naphthalene-d8	10.54	136	766750	20.00	ng/ul	0.02
35) Acenaphthene-d10	14.38	164	498309	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.12	188	970595	20.00	ng/ul	0.00
75) Chrysene-d12	21.31	240	1177479	20.00	ng/ul	0.00
83) Perylene-d12	23.57	264	1203196	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.28	96	22543	5.13	ng/uL	0.00
5) Phenol-d5	6.92	99	296411	20.38	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.09	67	647263	75.00	ng/ul	0.01
9) 2-Chlorophenol-d4	7.29	132	217003	19.46	ng/ul	0.02
13) 4-Methylphenol-d8	8.46	113	89061	7.83	ng/ul	0.01
19) Nitrobenzene-d5	8.91	128	169199	30.66	ng/ul	0.01
22) 2-Nitrophenol-d4	9.63	143	121054	20.69	ng/ul	0.02
26) 2,4-Dichlorophenol-d3	10.16	165	219698	19.10	ng/ul	0.02
29) 4-Chloroaniline-d4	10.65	131	645987	49.24	ng/ul	-0.01
43) Dimethylphthalate-d6	13.79	166	741324	21.85	ng/ul	0.00
46) Acenaphthylene-d8	14.07	160	908164	22.24	ng/ul	0.01
51) 4-Nitrophenol-d4	14.60	143	94953	17.70	ng/ul	0.01
57) Fluorene-d10	15.37	176	662989	22.29	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.51	200	72080	12.50	ng/ul	0.00
70) Anthracene-d10	17.22	188	992463	22.69	ng/ul	0.00
76) Pyrene-d10	19.52	212	1147952	23.73	ng/ul	0.00
87) Benzo(a)pyrene-d12	23.42	264	1195423	22.76	ng/ul	0.00

Target Compounds

						Qvalue
28) Naphthalene	10.59	128	676255	18.13	ng/ul#	80
34) 2-Methylnaphthalene	12.20	142	355193	13.39	ng/ul	100
40) 1,1'-Biphenyl	13.21	154	263615	7.50	ng/ul	95
44) Dimethylphthalate	13.83	163	201929	6.13	ng/ul#	90
49) Acenaphthene	14.44	153	73117	2.56	ng/ul	94
53) Dibenzofuran	14.78	168	507992	12.38	ng/ul	95
58) Fluorene	15.43	166	634369	19.37	ng/ul	97
69) Phenanthrene	17.17	178	3160716	61.27	ng/ul	100
71) Anthracene	17.26	178	167182m	3.18	ng/ul	
74) Fluoranthene	19.19	202	3196710	52.98	ng/ul	99
77) Pyrene	19.55	202	2422034	39.82	ng/ul	99
80) Benzo(a)anthracene	21.30	228	634702	10.09	ng/ul	97
82) Chrysene	21.35	228	857025	14.17	ng/ul	96
85) Benzo(b)fluoranthene	22.89	252	748739	10.89	ng/ul#	92
86) Benzo(k)fluoranthene	22.93	252	213095m	3.37	ng/ul	
88) Benzo(a)pyrene	23.47	252	215740	3.33	ng/ul#	83
89) Indeno(1,2,3-cd)pyrene	25.83	276	260121	3.35	ng/ul	96
90) Dibenzo(a,h)anthracene	25.84	278	67422	1.03	ng/ul#	89
91) Benzo(g,h,i)perylene	26.53	276	194308	2.98	ng/ul	99

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