

Data Path : Z:\HPCHEM1\BNA_M\Data\BM080315\
 Data File : BM002204.D
 Acq On : 03 Aug 2015 19:12
 Operator : TP/UM
 Sample : G3095-11
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 C01S2

Manual Integrations
 APPROVED

MMDadoda
 8/6/2015 4:16:00 PM

Quant Time: Aug 14 02:34:10 2015
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM072715.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Tue Aug 04 02:31:26 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.53	152	84084	20.00	ng/ul	0.00
18) Naphthalene-d8	10.32	136	363358	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.21	164	236352	20.00	ng/ul	0.00
62) Phenanthrene-d10	16.97	188	569871	20.00	ng/ul	0.01
78) Chrysene-d12	21.18	240	526896	20.00	ng/ul	0.01
86) Perylene-d12	23.37	264	491117	20.00	ng/ul	0.02

System Monitoring Compounds

3) 1,4-Dioxane-d8	2.98	96	1612	0.99	ng/uL	0.00
5) Phenol-d5	6.72	99	43935	7.31	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	6.87	67	22925	6.90	ng/ul	0.00
9) 2-Chlorophenol-d4	7.06	132	37827	7.42	ng/ul	0.00
13) 4-Methylphenol-d8	8.26	113	36496	7.64	ng/ul	0.01
19) Nitrobenzene-d5	8.69	128	18288	7.08	ng/ul	0.00
22) 2-Nitrophenol-d4	9.42	143	20226	7.05	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	9.96	165	40230	7.28	ng/ul	0.00
29) 4-Chloroaniline-d4	10.47	131	32345	5.32	ng/ul	0.00
44) Dimethylphthalate-d6	13.62	166	117669	6.80	ng/ul	0.00
47) Acenaphthylene-d8	13.90	160	151693	7.01	ng/ul	0.00
52) 4-Nitrophenol-d4	14.46	143	11835	4.10	ng/ul	0.02
58) Fluorene-d10	15.20	176	112766	7.40	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	0.00	200	0	0.00	ng/ul	
71) Anthracene-d10	17.07	188	178467	7.02	ng/ul	0.01
79) Pyrene-d10	19.37	212	185989	8.38	ng/ul	0.01
90) Benzo(a)pyrene-d12	23.23	264	159230	6.69	ng/ul	0.02

Target Compounds

						Qvalue
28) Naphthalene	10.37	128	107466	6.23	ng/ul	99
34) 2-Methylnaphthalene	12.00	142	25406	2.02	ng/ul	98
45) Dimethylphthalate	13.67	163	39955	2.31	ng/ul	98
48) Acenaphthylene	13.93	152	138940	6.22	ng/ul	100
50) Acenaphthene	14.27	153	189595	12.95	ng/ul	99
54) Dibenzofuran	14.61	168	116929	5.57	ng/ul	96
59) Fluorene	15.26	166	190033	10.95	ng/ul	99
70) Phenanthrene	17.02	178	3023624	102.44	ng/ul	99
72) Anthracene	17.10	178	672297	22.28	ng/ul	99
75) Carbazole	17.37	167	284538	11.04	ng/ul	98
77) Fluoranthene	19.05	202	5738804m	168.38	ng/ul	
80) Pyrene	19.42	202	5008828	174.70	ng/ul	98
83) Benzo(a)anthracene	21.17	228	2449842	83.87	ng/ul	97
85) Chrysene	21.22	228	2237095	81.86	ng/ul	96
88) Benzo(b)fluoranthene	22.73	252	2935935	106.39	ng/ul	97
89) Benzo(k)fluoranthene	22.76	252	913391m	34.30	ng/ul	
91) Benzo(a)pyrene	23.29	252	2138426	80.28	ng/ul	98
92) Indeno(1,2,3-cd)pyrene	25.59	276	1491896	48.60	ng/ul#	95
93) Dibenzo(a,h)anthracene	25.59	278	386048	14.70	ng/ul#	84
94) Benzo(g,h,i)perylene	26.27	276	1366292	53.10	ng/ul	96

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

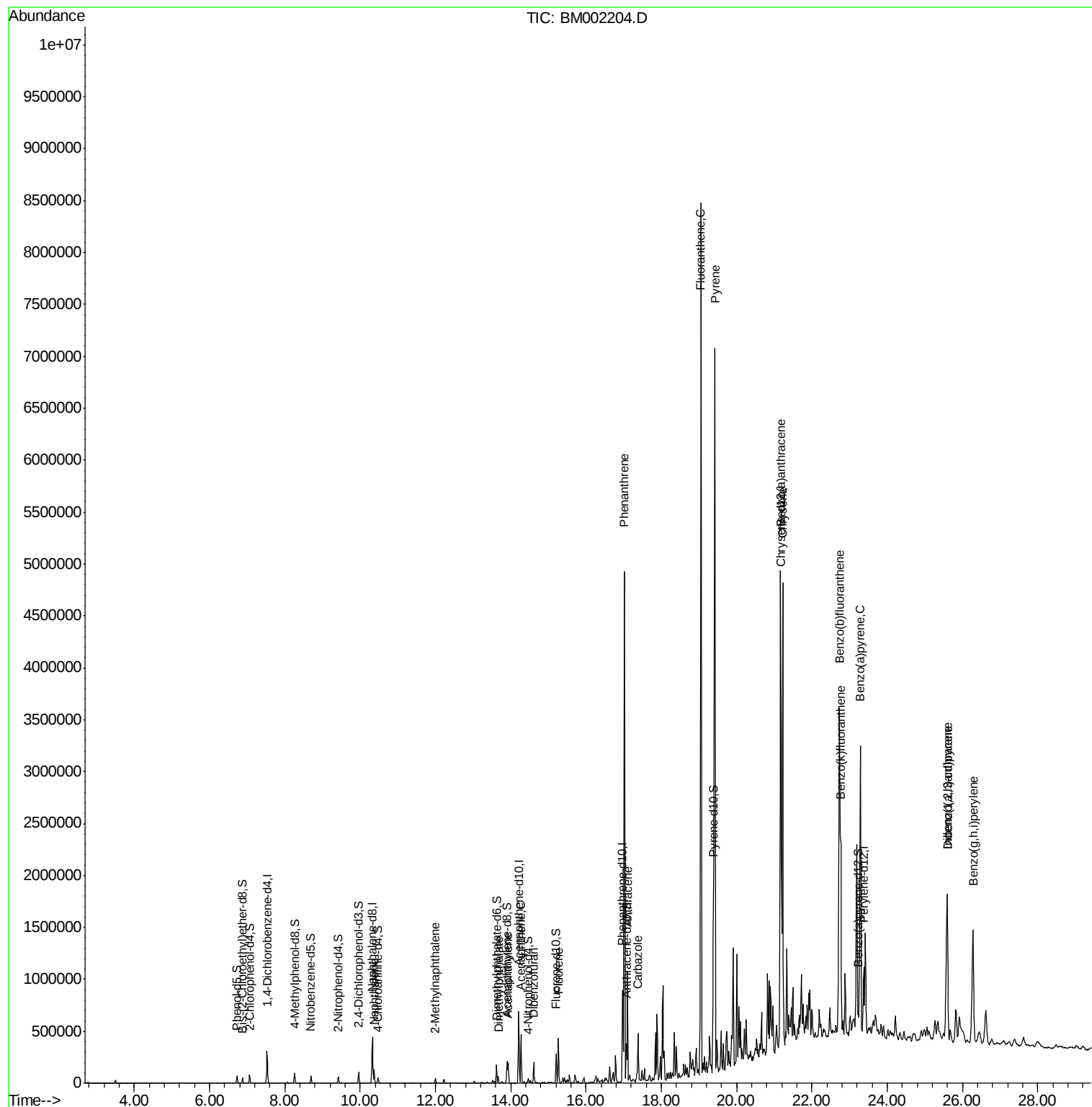
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Data File : BM002204.D
Acq On : 03 Aug 2015 19:12
Operator : TP/UM
Sample : G3095-11
Misc :
ALS Vial : 23 Sample Multiplier: 1

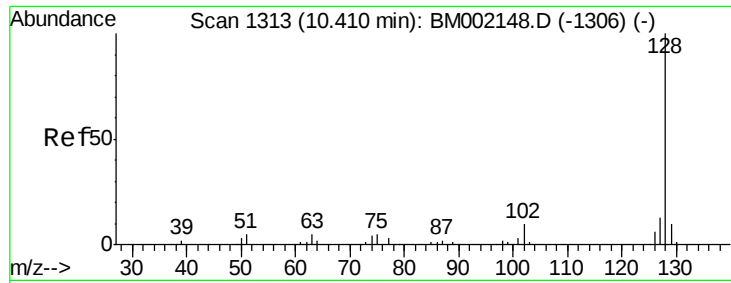
Instrument :
BNA_M
ClientSampleId :
C01S2

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Quant Time: Aug 14 02:34:10 2015
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Quant Title : SVOA CALIBRATION
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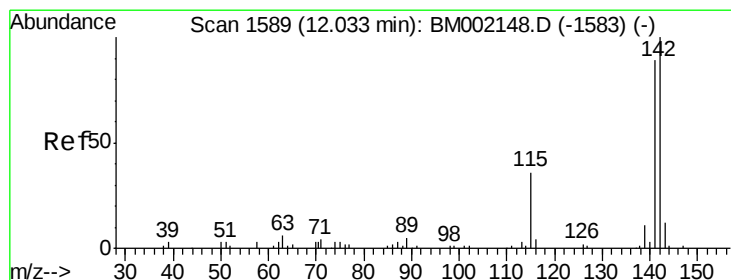
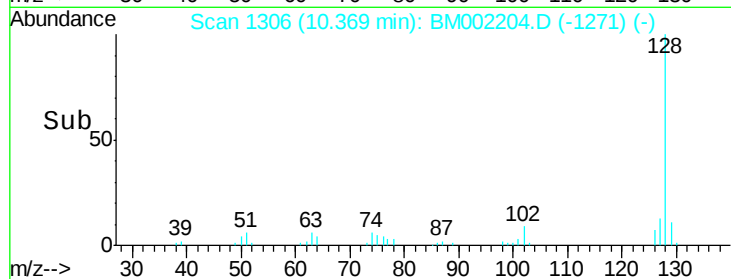
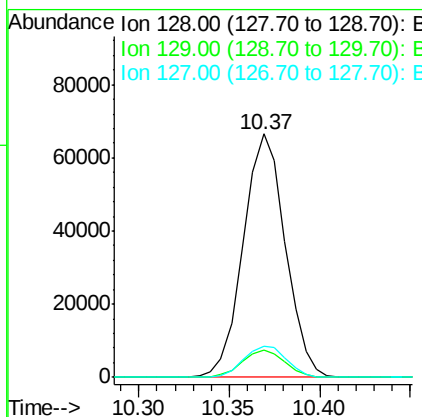
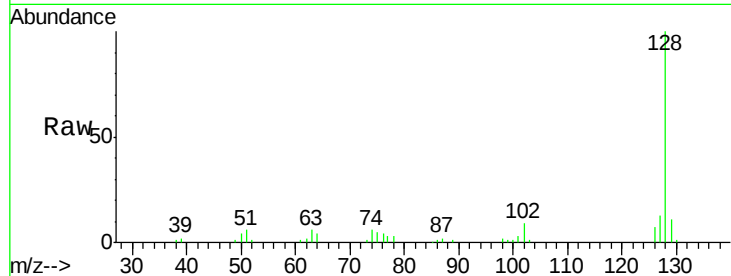
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Naphthalene
Concen: 6.23 ng/ul
RT: 10.37 min Scan# 1306
Delta R.T. 0.01 min
Lab File: BM002204.D
Acq: 03 Aug 2015 19:12

Instrument :
BNA_M
ClientSampleId :
C01S2

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	107466		
129	11.5	9.0	13.4	
127	12.6	10.2	15.4	

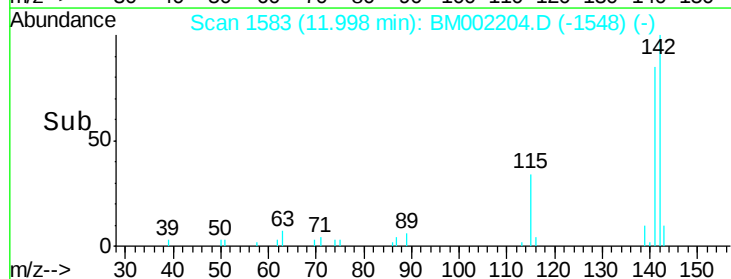
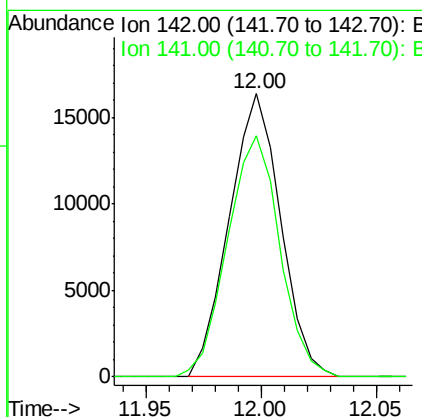
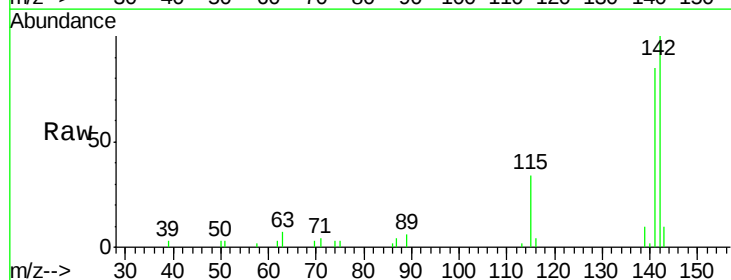
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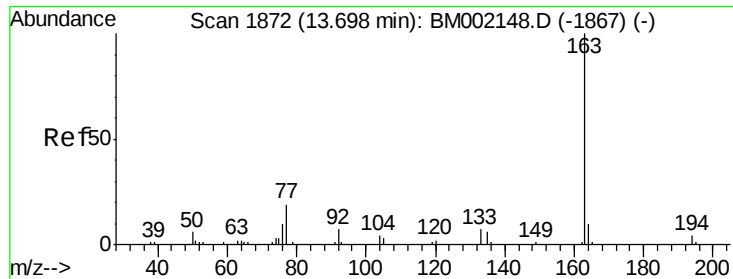
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#34
2-Methylnaphthalene
Concen: 2.02 ng/ul
RT: 12.00 min Scan# 1583
Delta R.T. 0.01 min
Lab File: BM002204.D
Acq: 03 Aug 2015 19:12

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	25406		
141	85.2	69.8	104.6	





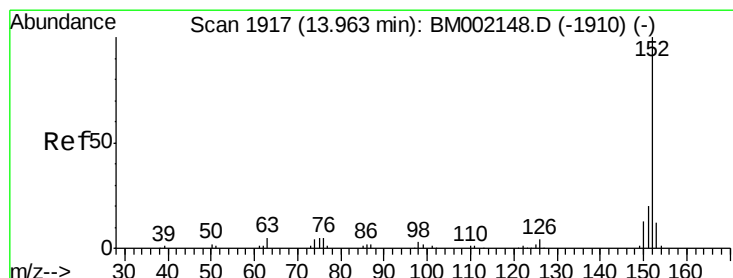
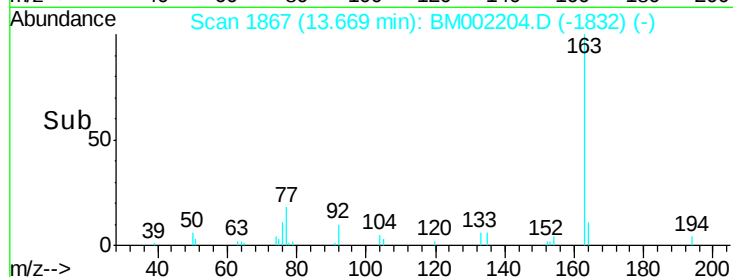
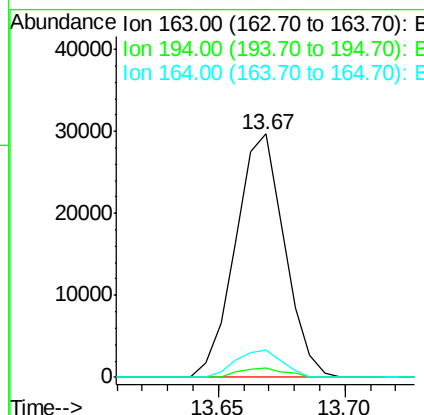
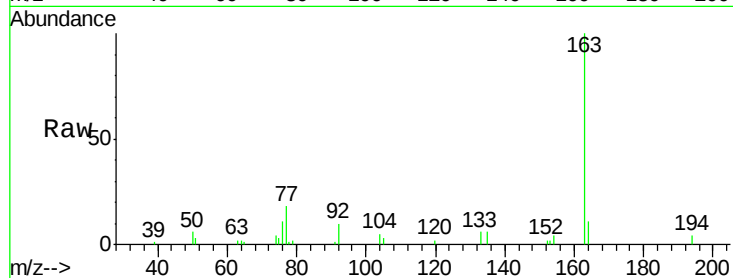
#45
Dimethylphthalate
Concen: 2.31 ng/ul
RT: 13.67 min Scan# 1867
Delta R.T. 0.01 min
Lab File: BM002204.D
Acq: 03 Aug 2015 19:12

Instrument :
BNA_M
ClientSampleId :
C01S2

Tgt Ion	Ratio	Resp Lower	Upper
163	100		
194	4.0	3.5	5.3
164	11.1	8.0	12.0

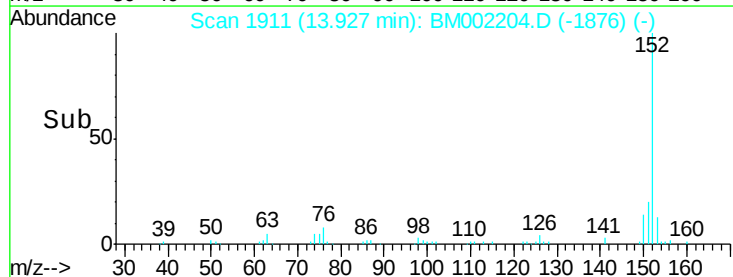
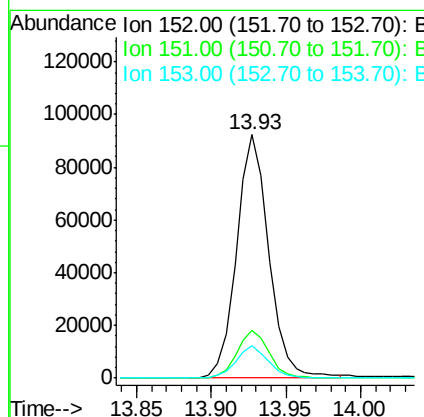
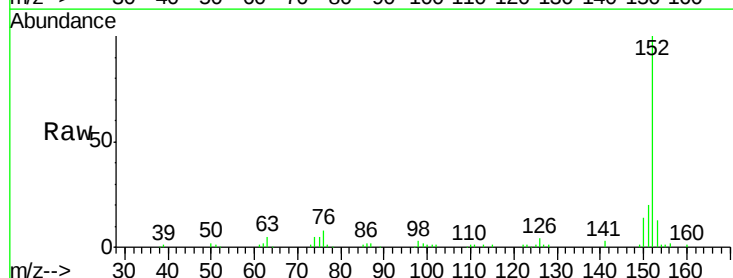
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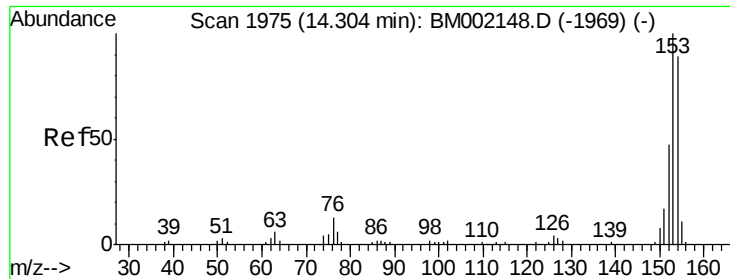
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#48
Acenaphthylene
Concen: 6.22 ng/ul
RT: 13.93 min Scan# 1911
Delta R.T. 0.01 min
Lab File: BM002204.D
Acq: 03 Aug 2015 19:12

Tgt Ion	Ratio	Resp Lower	Upper
152	100		
151	19.6	15.6	23.4
153	13.1	10.3	15.5





#50

Acenaphthene

Concen: 12.95 ng/ul

RT: 14.27 min Scan# 1970

Delta R.T. 0.01 min

Lab File: BM002204.D

Acq: 03 Aug 2015 19:12

Instrument :

BNA_M

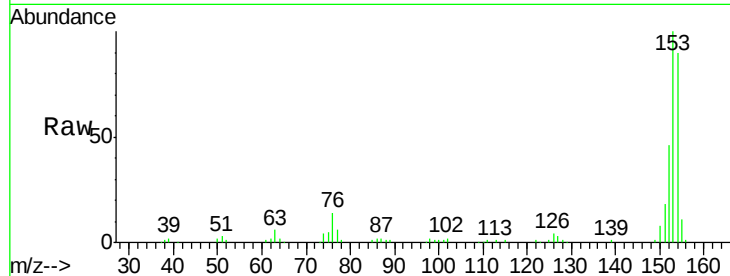
ClientSampleId :

C01S2

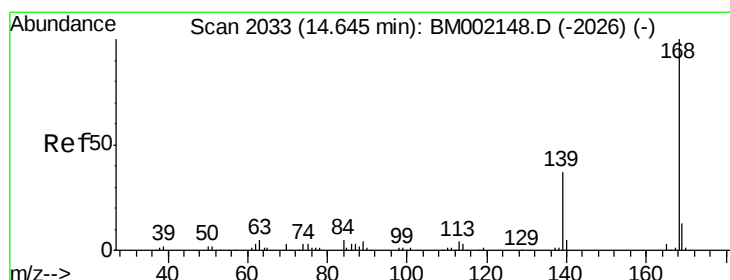
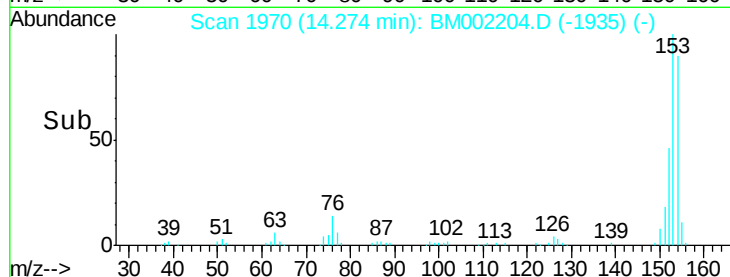
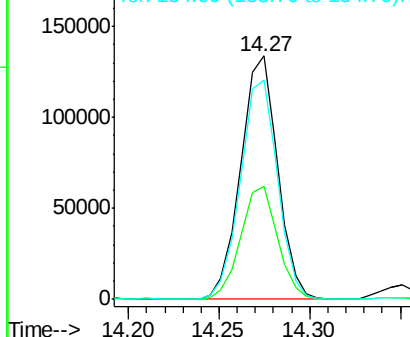
Tgt Ion:	153	Resp:	189595
Ion Ratio	Lower	Upper	
153	100		
152	46.5	37.3	55.9
154	90.1	71.4	107.2

Manual Integrations
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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



#54

Dibenzofuran

Concen: 5.57 ng/ul

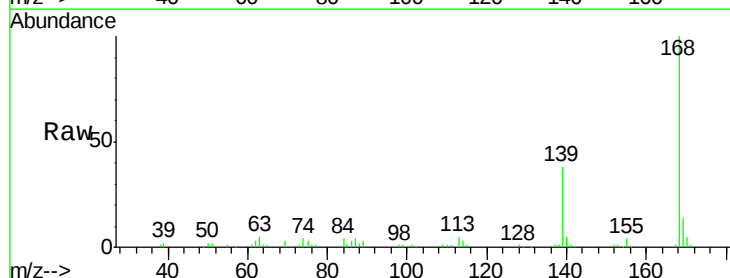
RT: 14.61 min Scan# 2027

Delta R.T. 0.01 min

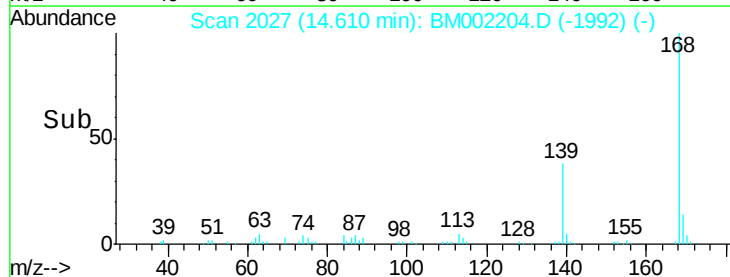
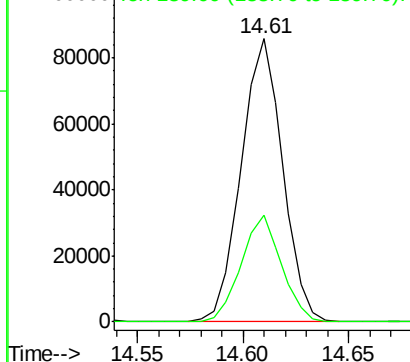
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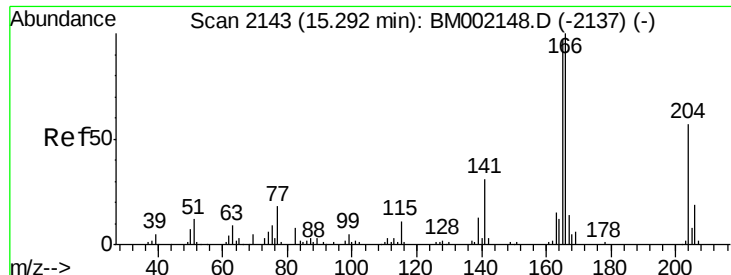
Acq: 03 Aug 2015 19:12

Tgt Ion:	168	Resp:	116929
Ion Ratio	Lower	Upper	
168	100		
139	37.8	28.2	42.2



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





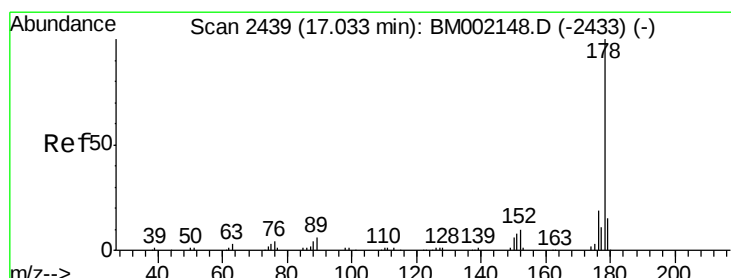
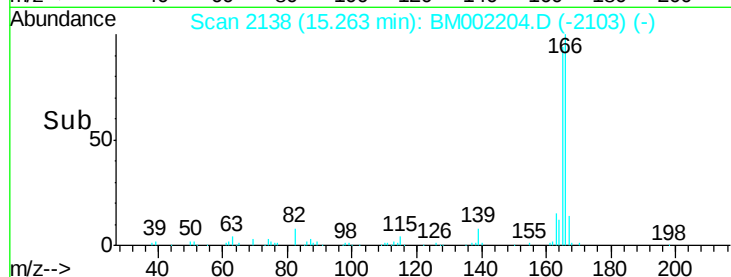
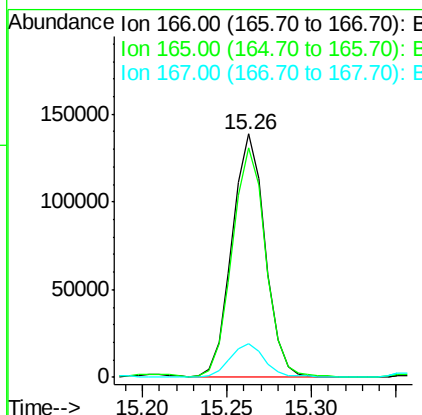
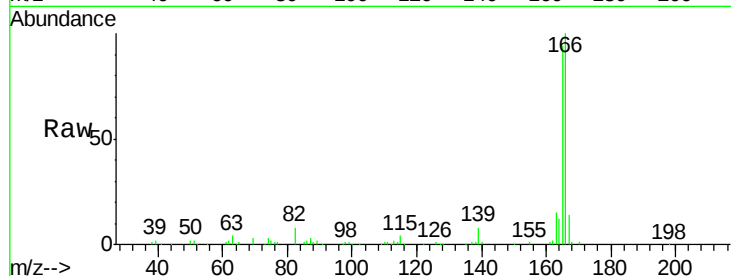
#59
Fluorene
 Concen: 10.95 ng/ul
 RT: 15.26 min Scan# 2138
 Delta R.T. 0.01 min
 Lab File: BM002204.D
 Acq: 03 Aug 2015 19:12

Instrument :
 BNA_M
 ClientSampleId :
 C01S2

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	190033		
165	94.2	75.6	113.4	
167	14.0	10.5	15.7	

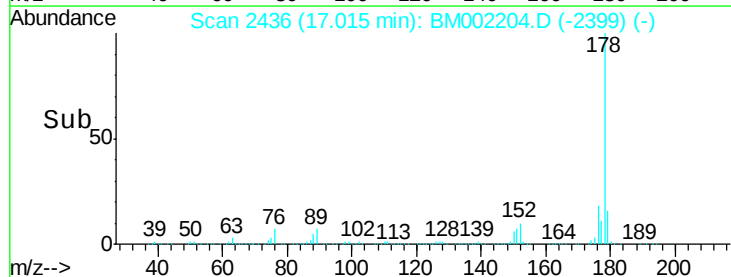
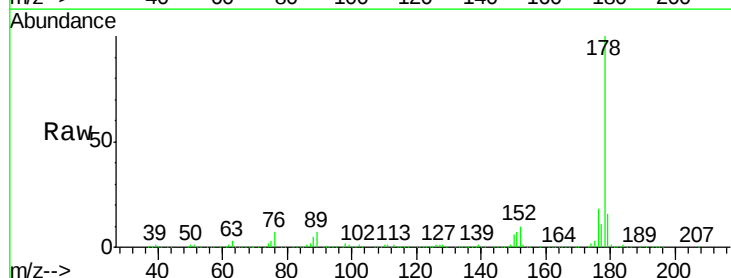
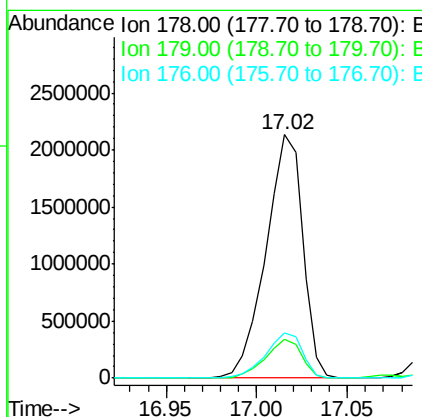
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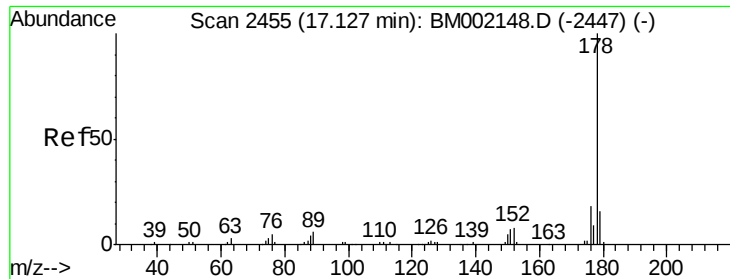
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 8/6/2015 4:16:00 PM



#70
Phenanthrene
 Concen: 102.44 ng/ul
 RT: 17.02 min Scan# 2436
 Delta R.T. 0.02 min
 Lab File: BM002204.D
 Acq: 03 Aug 2015 19:12

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	3023624		
179	15.8	12.5	18.7	
176	18.4	14.2	21.4	





#72

Anthracene

Concen: 22.28 ng/ul

RT: 17.10 min Scan# 2450

Delta R.T. 0.01 min

Lab File: BM002204.D

Acq: 03 Aug 2015 19:12

Instrument :

BNA_M

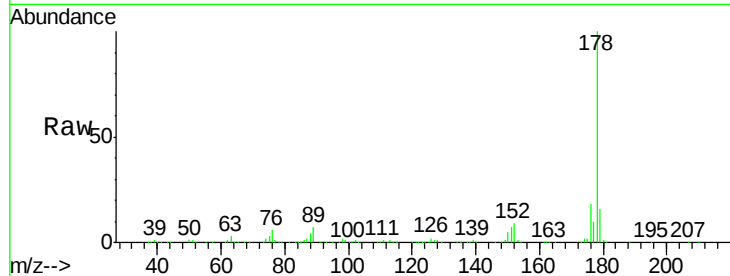
ClientSampleId :

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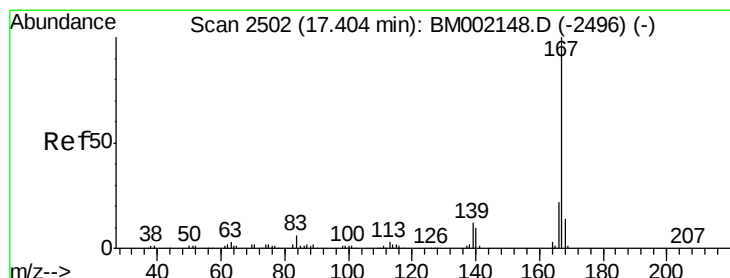
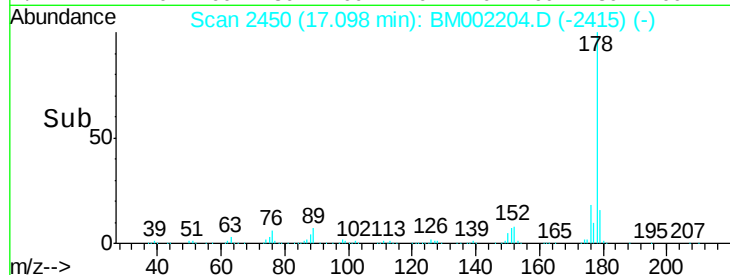
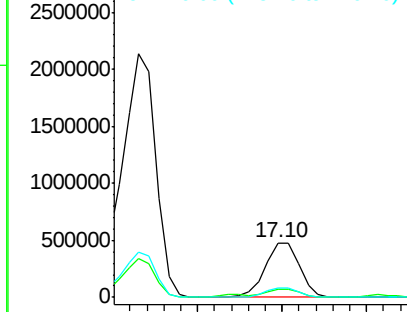
Tgt Ion:	178	Resp:	672297
Ion Ratio	Lower	Upper	
178	100		
179	15.5	12.1	18.1
176	17.8	14.1	21.1

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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



#75

Carbazole

Concen: 11.04 ng/ul

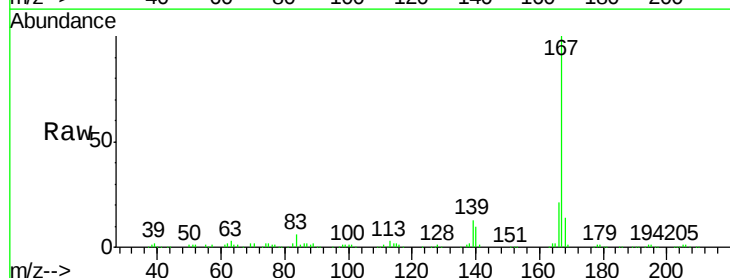
RT: 17.37 min Scan# 2497

Delta R.T. 0.01 min

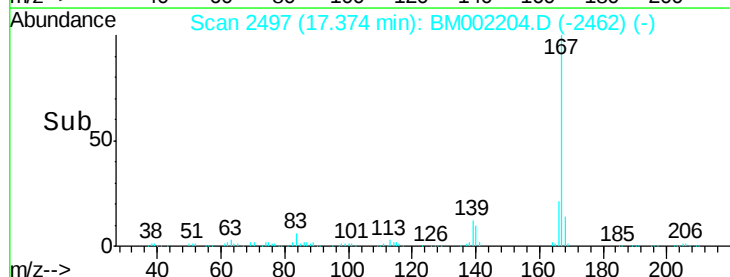
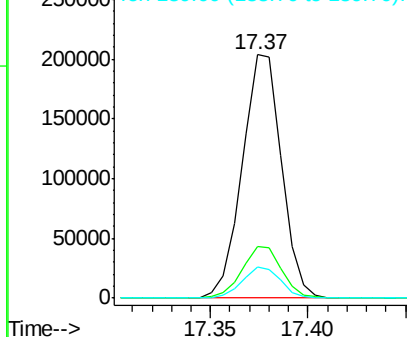
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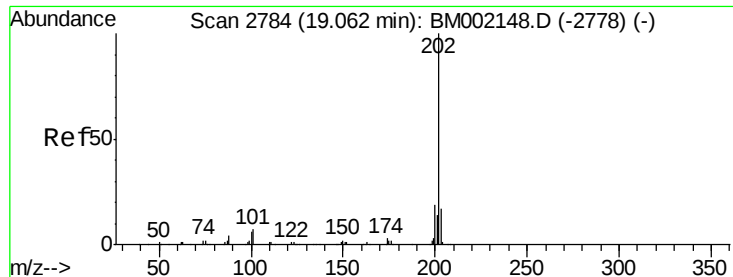
Acq: 03 Aug 2015 19:12

Tgt Ion:	167	Resp:	284538
Ion Ratio	Lower	Upper	
167	100		
166	21.0	16.2	24.4
139	12.6	9.6	14.4



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





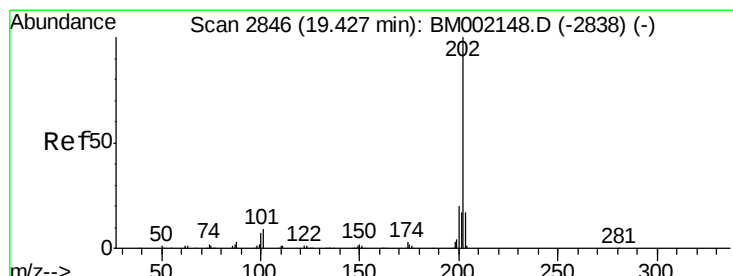
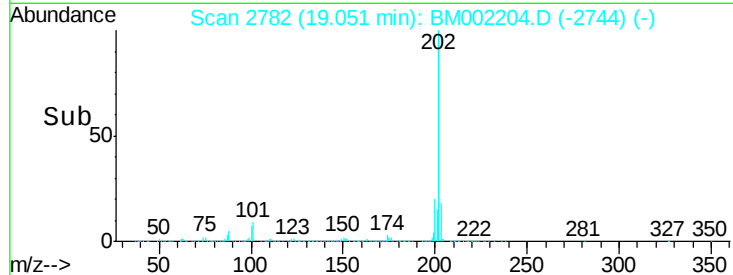
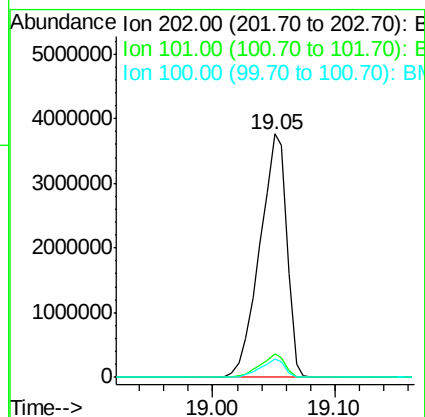
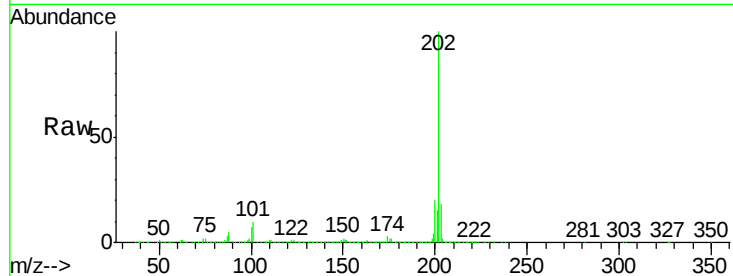
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 Fluoranthene
 Concen: 168.38 ng/ul m
 RT: 19.05 min Scan# 2782
 Delta R.T. 0.02 min
 Lab File: BM002204.D
 Acq: 03 Aug 2015 19:12

Instrument :
 BNA_M
 ClientSampleId :
 C01S2

Tgt Ion	Ratio	Lower	Upper
202	100		
101	9.5	6.2	9.4#
100	7.4	5.2	7.8

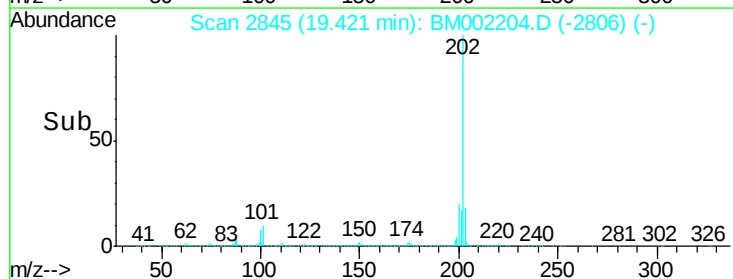
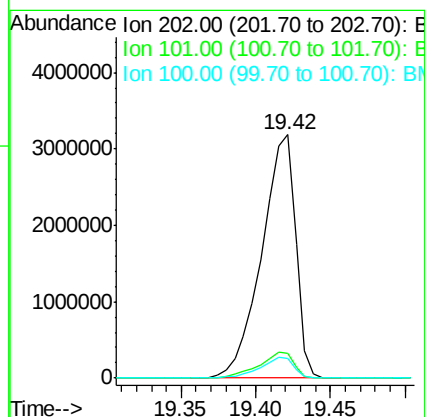
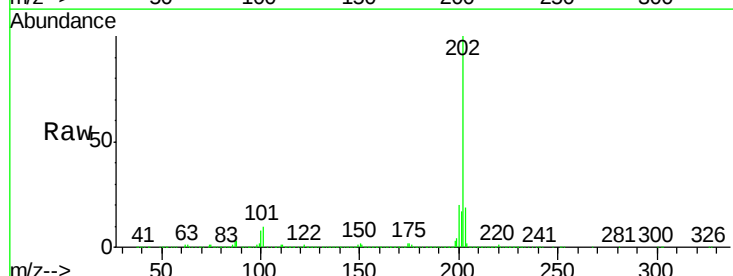
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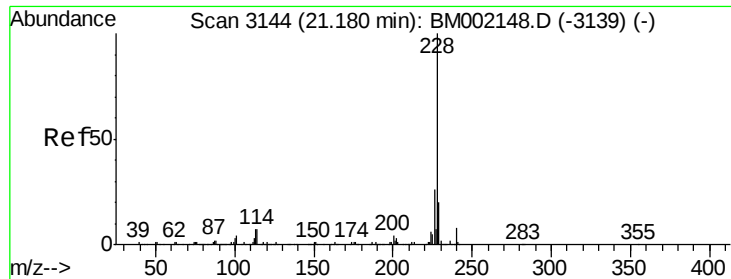
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#80
 Pyrene
 Concen: 174.70 ng/ul
 RT: 19.42 min Scan# 2845
 Delta R.T. 0.03 min
 Lab File: BM002204.D
 Acq: 03 Aug 2015 19:12

Tgt Ion	Ratio	Lower	Upper
202	100		
101	10.1	7.4	11.2
100	8.2	6.3	9.5





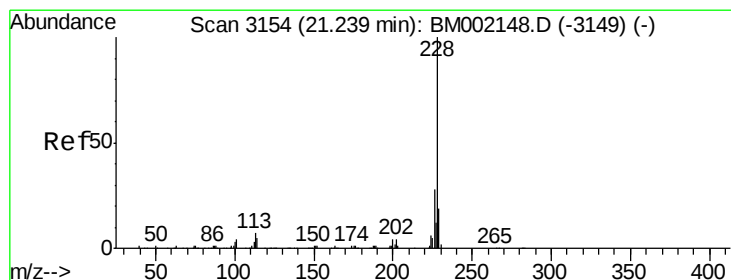
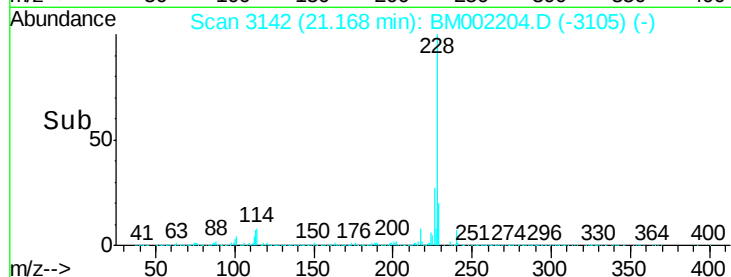
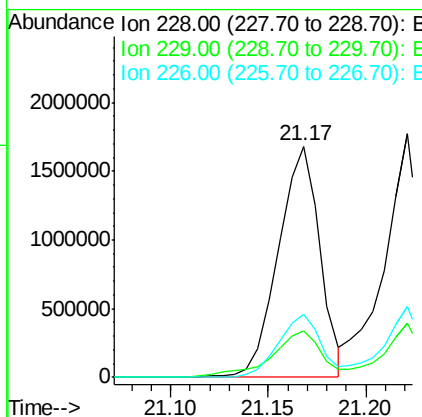
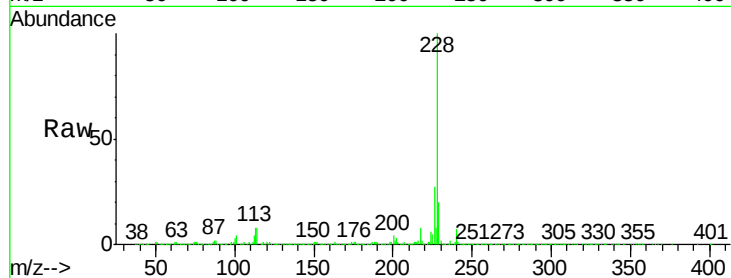
#83
Benzo(a)anthracene
Concen: 83.87 ng/ul
RT: 21.17 min Scan# 3142
Delta R.T. 0.02 min
Lab File: BM002204.D
Acq: 03 Aug 2015 19:12

Instrument :
BNA_M
ClientSampleId :
C01S2

Tgt Ion	Ratio	Lower	Upper
228	100		
229	20.2	15.4	23.2
226	27.1	20.5	30.7

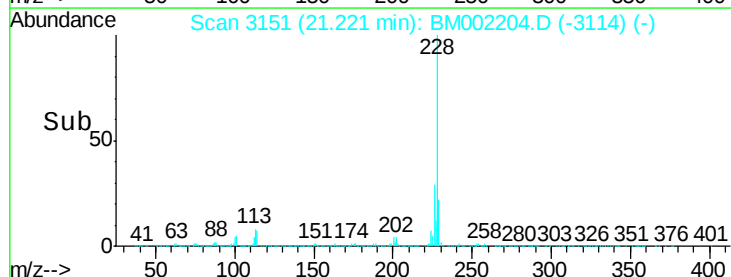
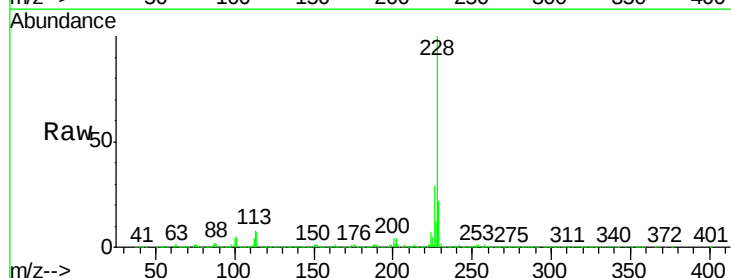
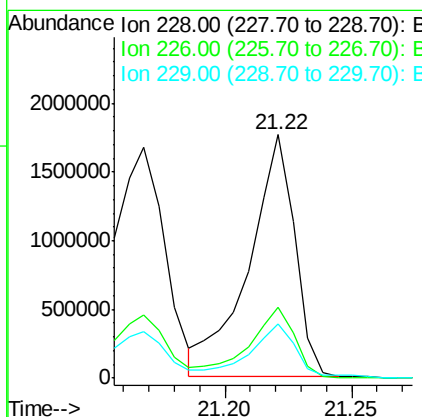
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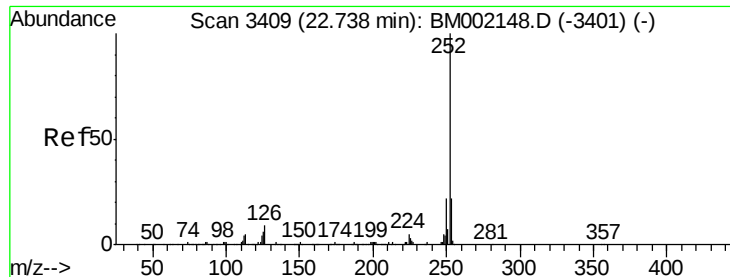
MMDadoda
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#85
Chrysene
Concen: 81.86 ng/ul
RT: 21.22 min Scan# 3151
Delta R.T. 0.02 min
Lab File: BM002204.D
Acq: 03 Aug 2015 19:12

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.9	22.3	33.5
229	22.3	15.5	23.3





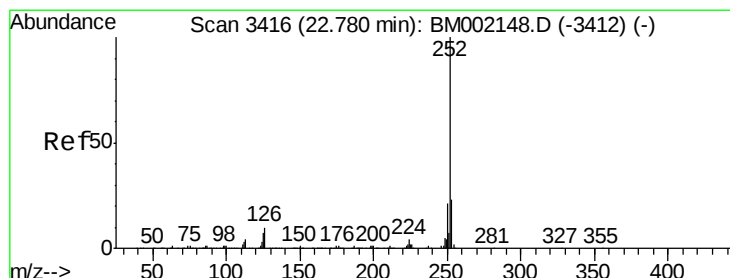
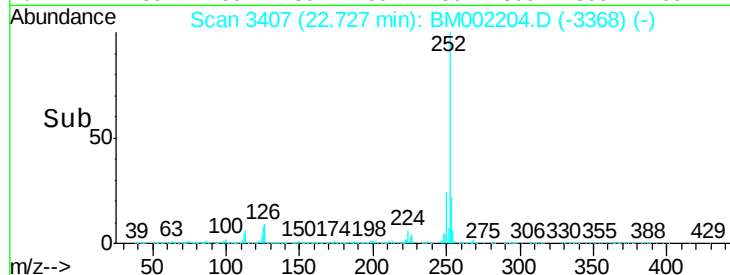
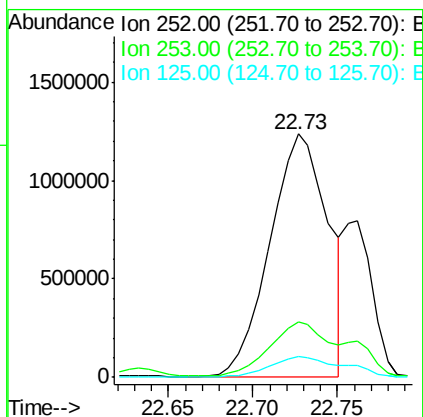
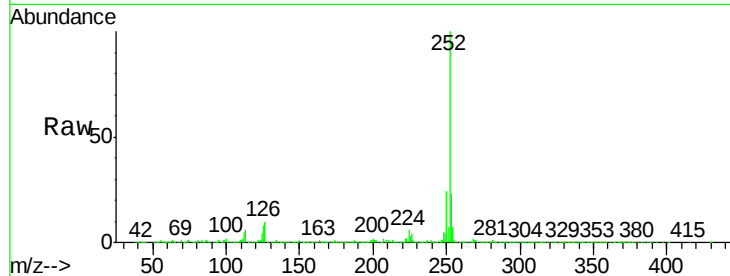
#88
Benzo(b)fluoranthene
Concen: 106.39 ng/ul
RT: 22.73 min Scan# 3407
Delta R.T. 0.03 min
Lab File: BM002204.D
Acq: 03 Aug 2015 19:12

Instrument :
BNA_M
ClientSampleId :
C01S2

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	16.9	25.3
125	8.4	6.2	9.2

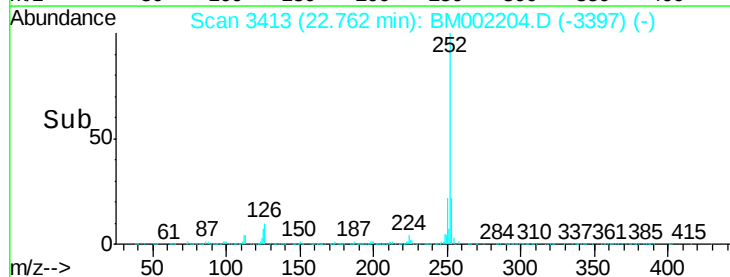
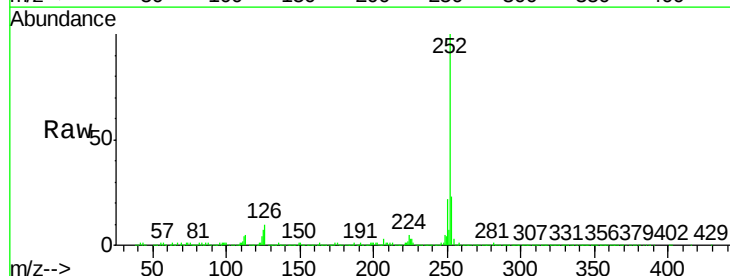
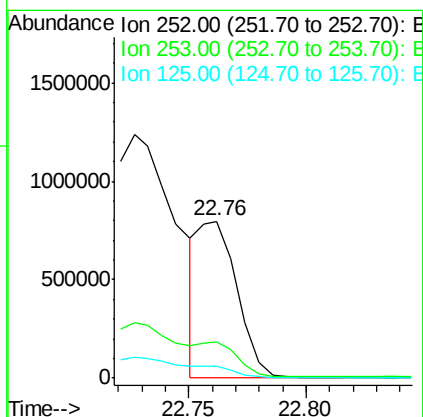
Manual Integrations
APPROVED

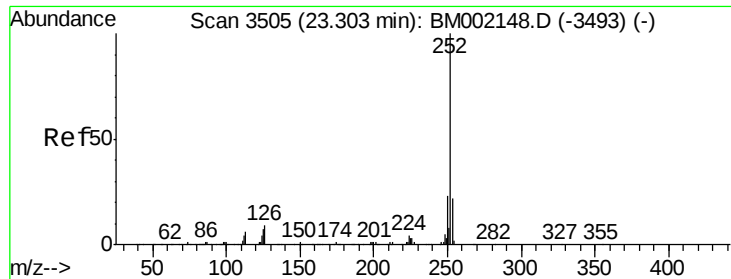
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#89
Benzo(k)fluoranthene
Concen: 34.30 ng/ul m
RT: 22.76 min Scan# 3413
Delta R.T. 0.02 min
Lab File: BM002204.D
Acq: 03 Aug 2015 19:12

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.4	26.0
125	7.3	6.2	9.4





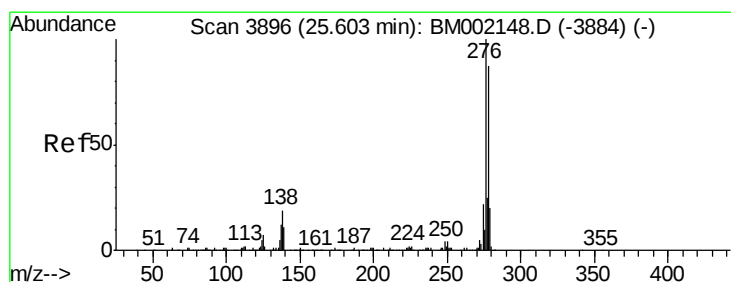
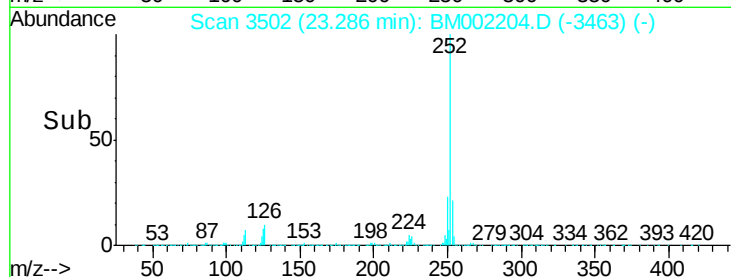
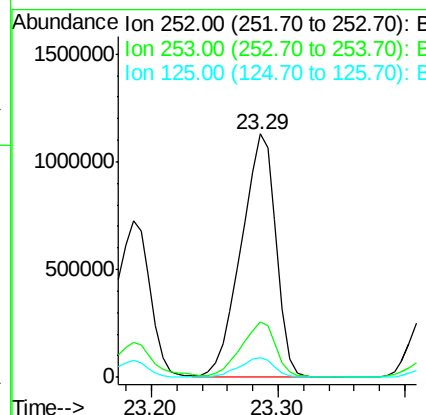
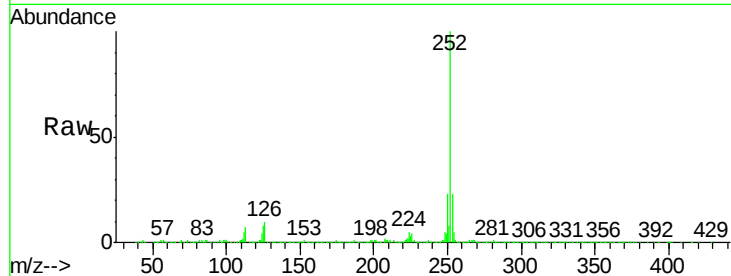
#91
Benzo(a)pyrene
Concen: 80.28 ng/ul
RT: 23.29 min Scan# 3502
Delta R.T. 0.03 min
Lab File: BM002204.D
Acq: 03 Aug 2015 19:12

Instrument :
BNA_M
ClientSampleId :
C01S2

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.2	25.8
125	8.1	6.6	10.0

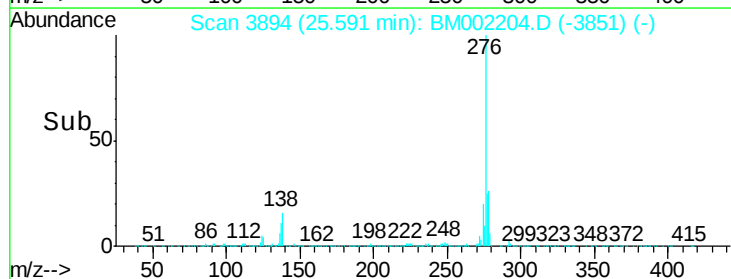
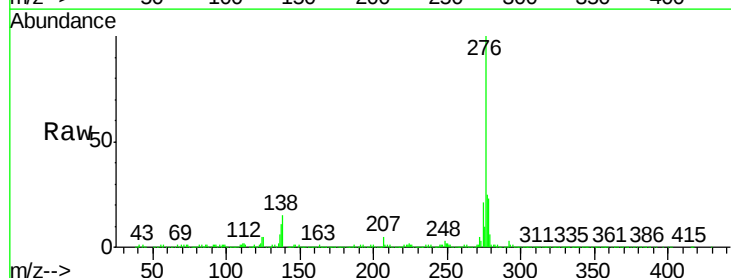
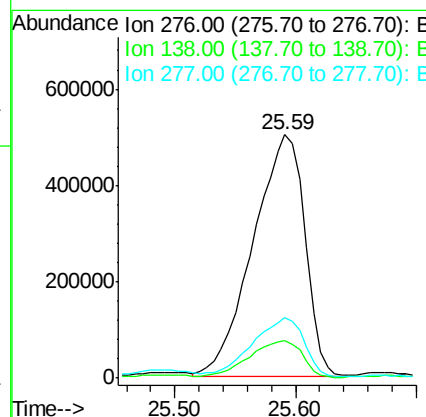
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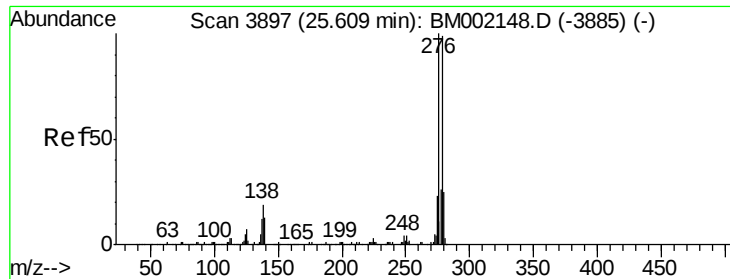
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8/6/2015 4:16:00 PM



#92
Indeno(1,2,3-cd)pyrene
Concen: 48.60 ng/ul
RT: 25.59 min Scan# 3894
Delta R.T. 0.05 min
Lab File: BM002204.D
Acq: 03 Aug 2015 19:12

Tgt Ion	Ratio	Lower	Upper
276	100		
138	15.4	16.2	24.2#
277	24.8	19.8	29.8





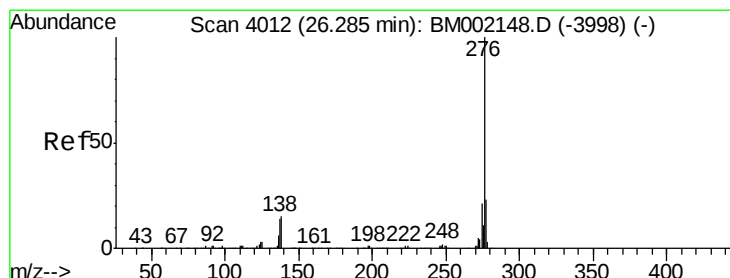
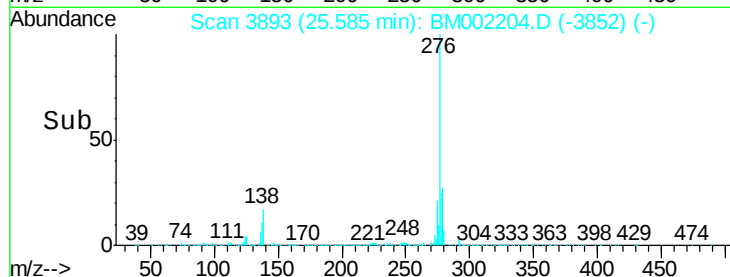
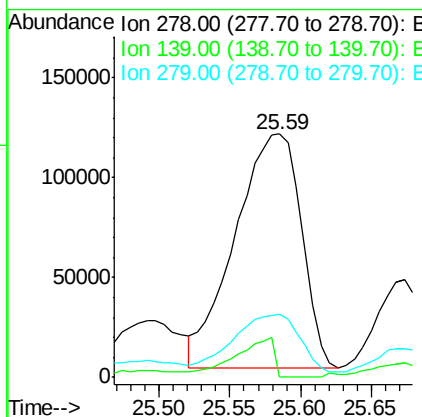
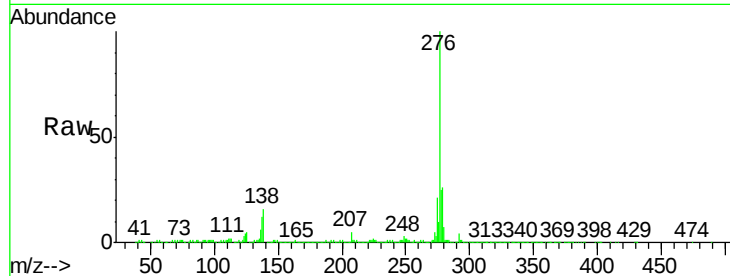
#93
Dibenzo(a,h)anthracene
Concen: 14.70 ng/ul
RT: 25.59 min Scan# 3893
Delta R.T. 0.04 min
Lab File: BM002204.D
Acq: 03 Aug 2015 19:12

Instrument :
BNA_M
ClientSampleId :
C01S2

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	10.6	16.0
279	25.7	18.5	27.7

Manual Integrations
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8/6/2015 4:16:00 PM



#94
Benzo(g,h,i)perylene
Concen: 53.10 ng/ul
RT: 26.27 min Scan# 4010
Delta R.T. 0.06 min
Lab File: BM002204.D
Acq: 03 Aug 2015 19:12

Tgt Ion	Ratio	Lower	Upper
276	100		
138	16.2	13.8	20.6
277	25.2	18.2	27.2

