

Data Path : Z:\HPCHEM1\BNA M\DATA\BM011316\
 Data File : BM003985.D
 Acq On : 13 Jan 2016 10:49
 Operator : SJ/UM
 Sample : H1095-19
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 BC9A7

Manual Integrations
 APPROVED

MMdadoda
 1/13/2016 3:28:54 PM

Quant Time: Jan 13 11:28:13 2016
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM010116.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Wed Jan 13 06:45:02 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.66	152	38644	20.00	ng/ul	0.00
18) Naphthalene-d8	10.45	136	191275	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.32	164	113218	20.00	ng/ul	0.00
62) Phenanthrene-d10	17.07	188	246576	20.00	ng/ul	0.00
78) Chrysene-d12	21.28	240	196913	20.00	ng/ul	0.00
86) Perylene-d12	23.52	264	180430	20.00	ng/ul	0.01

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.13	96	3414	3.95	ng/uL	0.00
5) Phenol-d5	6.85	99	81778	25.49	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.00	67	48696	26.85	ng/ul	0.00
9) 2-Chlorophenol-d4	7.20	132	70284	26.65	ng/ul	0.00
13) 4-Methylphenol-d8	8.37	113	48988	18.84	ng/ul	0.00
19) Nitrobenzene-d5	8.82	128	34947	24.25	ng/ul	0.00
22) 2-Nitrophenol-d4	9.54	143	38780	24.56	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.08	165	68633	24.46	ng/ul	0.00
29) 4-Chloroaniline-d4	10.60	131	43364	11.71	ng/ul	0.00
44) Dimethylphthalate-d6	13.73	166	230436	25.93	ng/ul	0.00
47) Acenaphthylene-d8	14.01	160	286349	26.44	ng/ul	0.00
52) 4-Nitrophenol-d4	14.54	143	30693	19.23	ng/ul	0.00
58) Fluorene-d10	15.32	176	203026	26.93	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	15.45	200	24751	17.80	ng/ul	0.00
71) Anthracene-d10	17.17	188	302071	26.49	ng/ul	0.00
79) Pyrene-d10	19.48	212	303012	29.71	ng/ul	0.00
90) Benzo(a)pyrene-d12	23.38	264	244369	27.12	ng/ul	0.01

Target Compounds

						Ovalue
28) Naphthalene	10.50	128	20389	2.05	ng/ul	99
34) 2-Methylnaphthalene	12.12	142	10769	1.53	ng/ul	100
35) 1-Methylnaphthalene	12.35	142	11151	1.67	ng/ul#	96
45) Dimethylphthalate	13.77	163	77771	8.58	ng/ul	100
48) Acenaphthylene	14.04	152	40448	3.41	ng/ul	98
50) Acenaphthene	14.39	153	34430	4.39	ng/ul	99
54) Dibenzofuran	14.72	168	19668	1.79	ng/ul	99
59) Fluorene	15.37	166	46369	5.32	ng/ul	99
70) Phenanthrene	17.12	178	732328	52.82	ng/ul	100
72) Anthracene	17.20	178	185645	13.05	ng/ul	99
75) Carbazole	17.48	167	87478	6.99	ng/ul	99
77) Fluoranthene	19.14	202	1234975	85.71	ng/ul	97
80) Pyrene	19.51	202	1216254	90.99	ng/ul	97
83) Benzo(a)anthracene	21.27	228	558547	47.63	ng/ul	97
85) Chrysene	21.32	228	603295	54.15	ng/ul	98
88) Benzo(b)fluoranthene	22.85	252	609031	55.52	ng/ul	98
89) Benzo(k)fluoranthene	22.89	252	206955m	19.83	ng/ul	
91) Benzo(a)pyrene	23.43	252	458688	44.09	ng/ul	97
92) Indeno(1,2,3-cd)pyrene	25.77	276	279208	24.26	ng/ul	96
93) Dibenzo(a,h)anthracene	25.77	278	83365	8.62	ng/ul#	89
94) Benzo(a,h,i)perylene	26.46	276	268213	27.76	ng/ul	98

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Manual Integrations
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Quant Time: Jan 13 11:28:13 2016
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM010116.M
Quant Title : SVOA CALIBRATION
QLast Update : Wed Jan 13 06:45:02 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

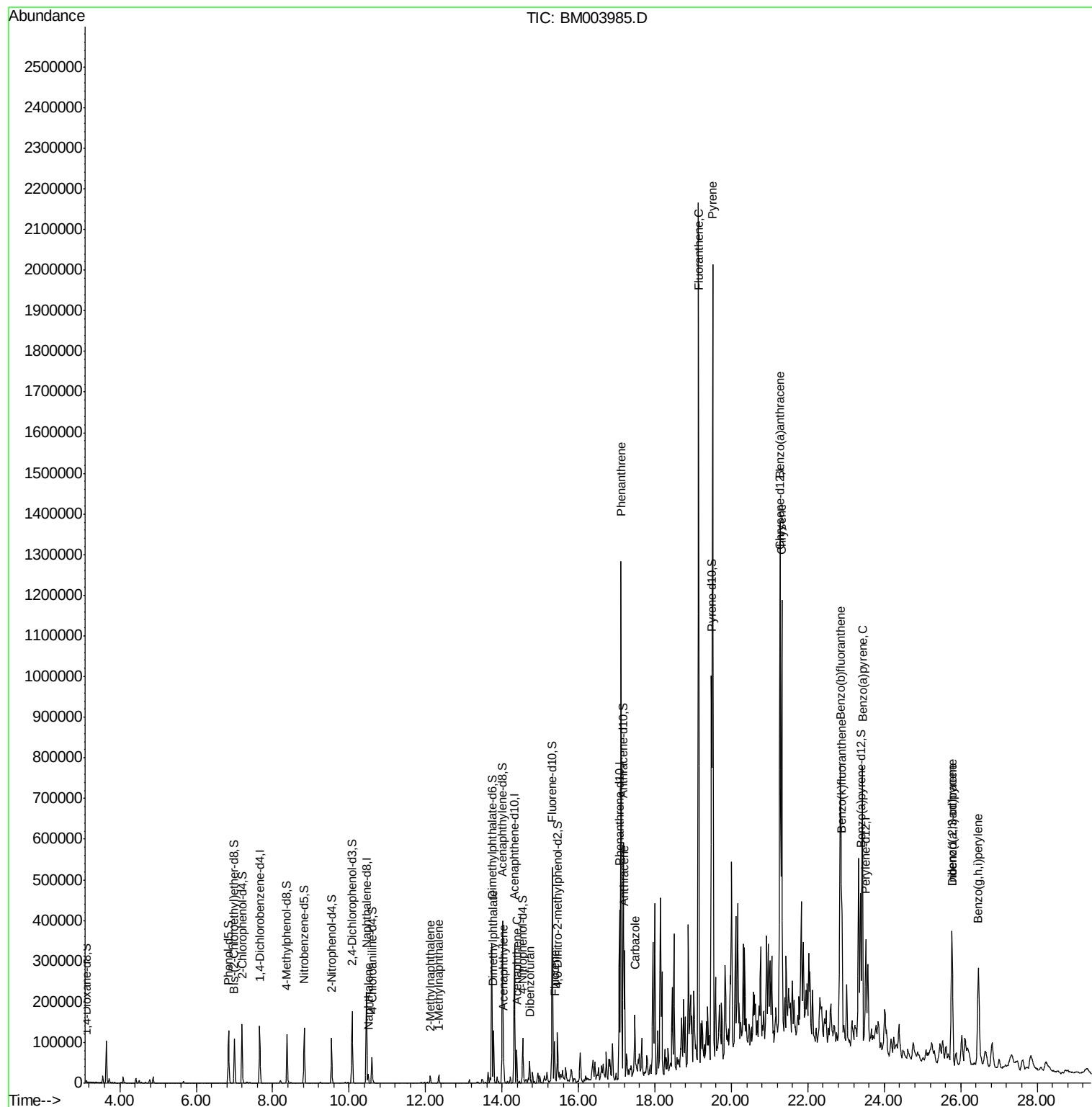
Data Path : Z:\HPCHEM1\BNA M\DATA\BM011316\
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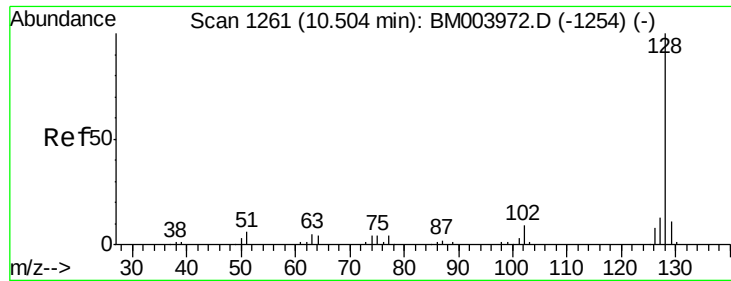
Instrument :
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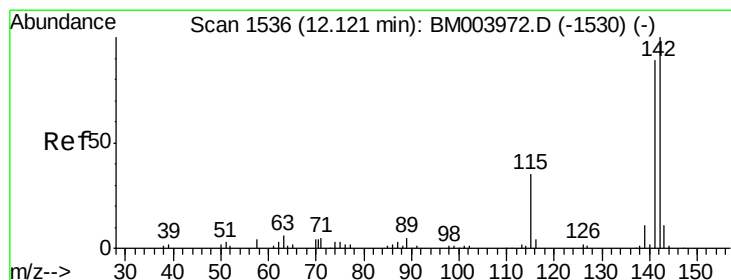
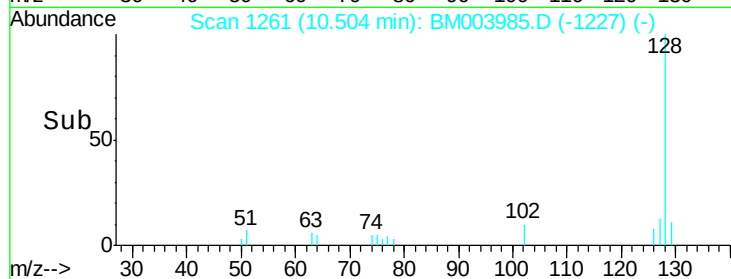
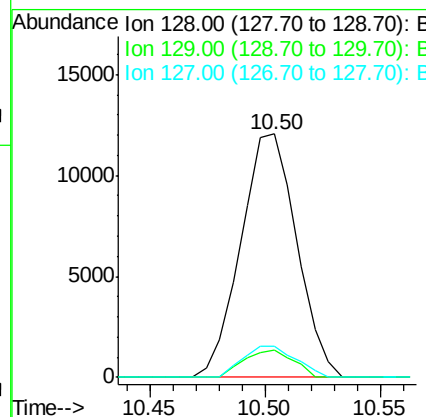
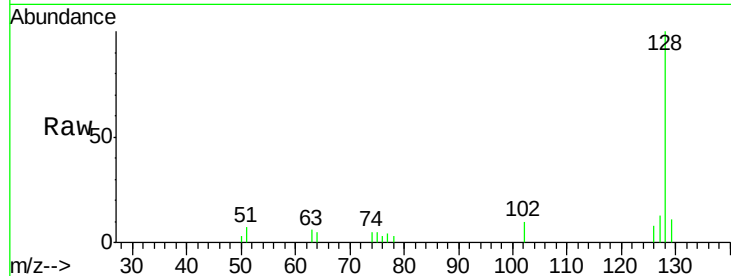
#28
Naphthalene
Concen: 2.05 ng/ul
RT: 10.50 min Scan# 1261
Delta R.T. 0.00 min
Lab File: BM003985.D
Acq: 13 Jan 2016 10:49

Instrument :
BNA_M
ClientSampleId :
BC9A7

Tot Ion	Ratio	Lower	Upper
128	100		
129	11.2	8.8	13.2
127	12.8	10.5	15.7

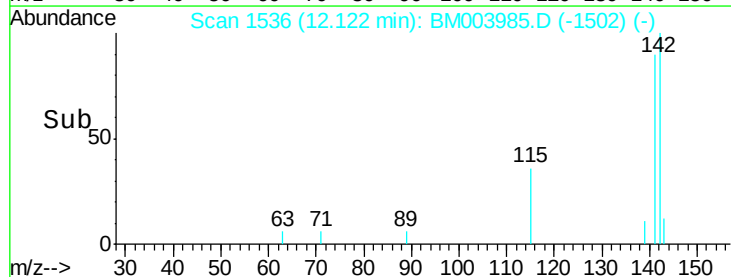
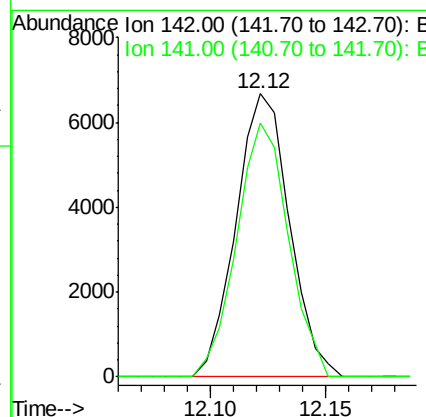
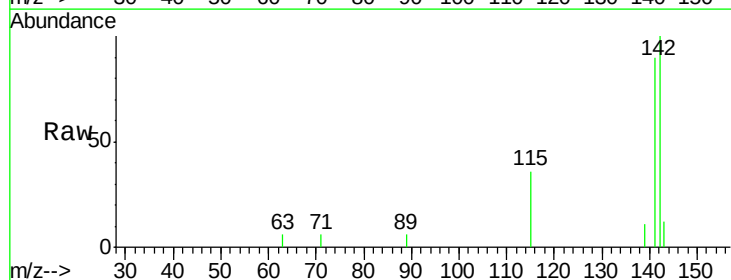
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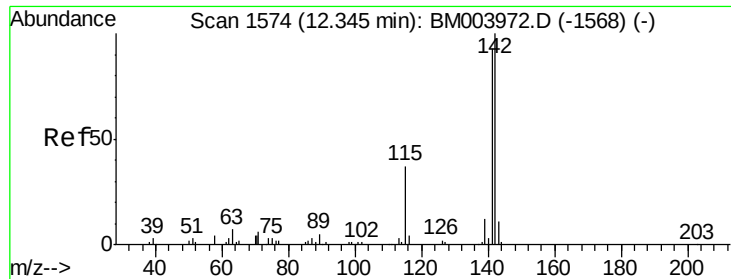
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#34
2-Methylnaphthalene
Concen: 1.53 ng/ul
RT: 12.12 min Scan# 1536
Delta R.T. 0.00 min
Lab File: BM003985.D
Acq: 13 Jan 2016 10:49

Tgt Ion	Ratio	Lower	Upper
142	100		
141	89.7	71.6	107.4





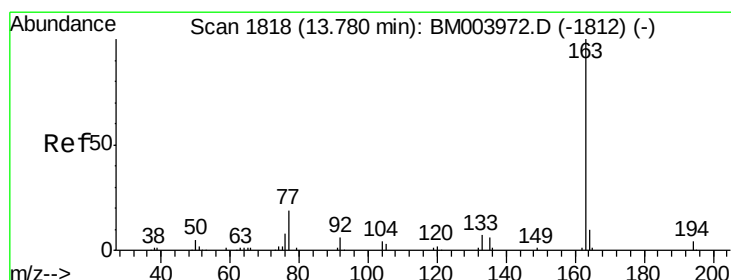
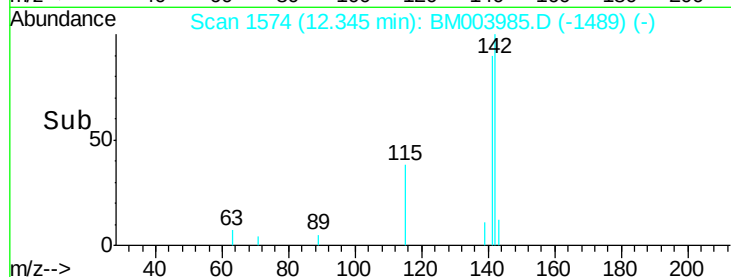
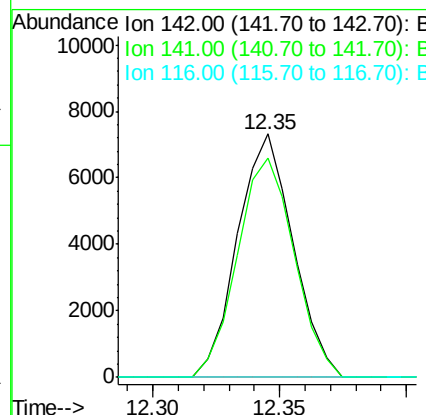
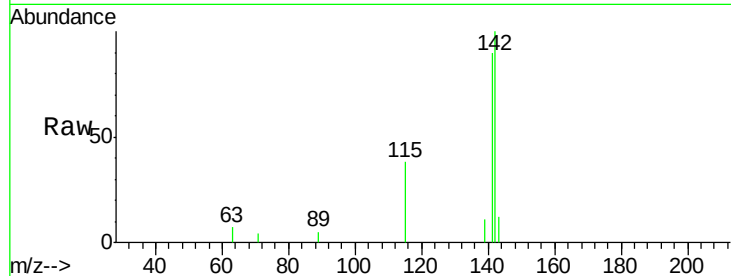
#35
 1-Methylnaphthalene
 Concen: 1.67 ng/ul
 RT: 12.35 min Scan# 1574
 Delta R.T. 0.00 min
 Lab File: BM003985.D
 Acq: 13 Jan 2016 10:49

Instrument :
 BNA_M
 ClientSampleId :
 BC9A7

Tot Ion	Ratio	Lower	Upper
142	100		
141	89.9	74.9	112.3
116	0.0	3.1	4.7#

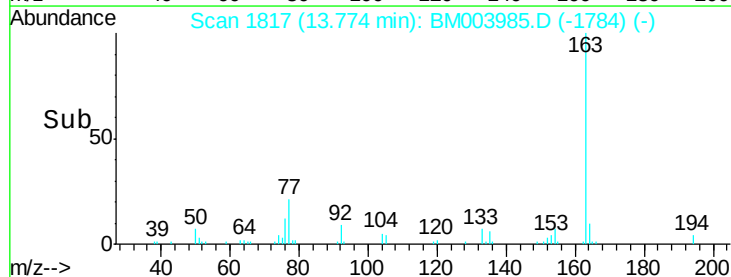
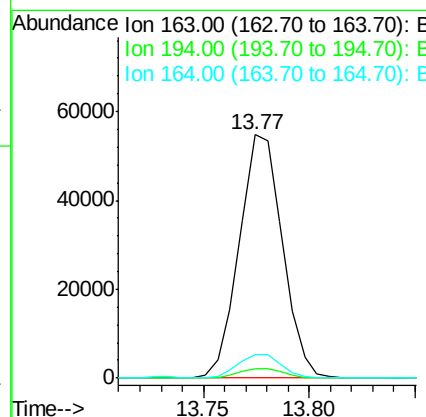
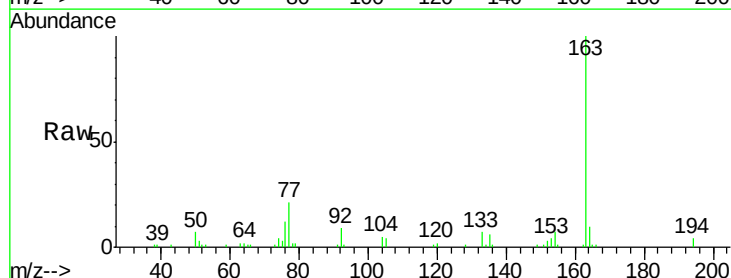
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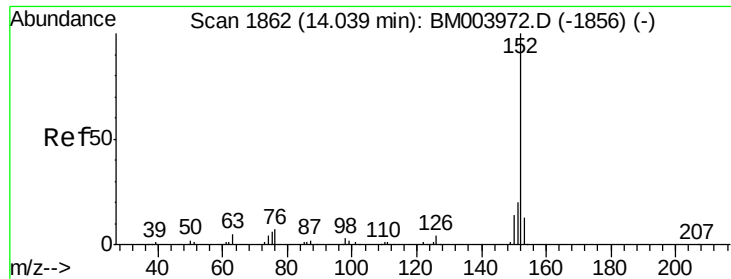
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#45
 Dimethylphthalate
 Concen: 8.58 ng/ul
 RT: 13.77 min Scan# 1817
 Delta R.T. -0.01 min
 Lab File: BM003985.D
 Acq: 13 Jan 2016 10:49

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.8	3.2	4.8
164	9.9	7.8	11.8





#48

Acenaphthylene

Concen: 3.41 ng/ul

RT: 14.04 min Scan# 1862

Delta R.T. 0.00 min

Lab File: BM003985.D

Acq: 13 Jan 2016 10:49

Instrument :

BNA_M

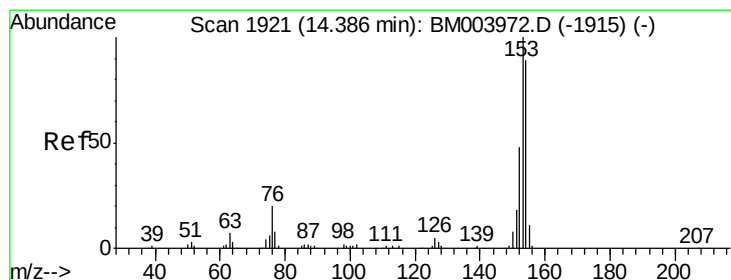
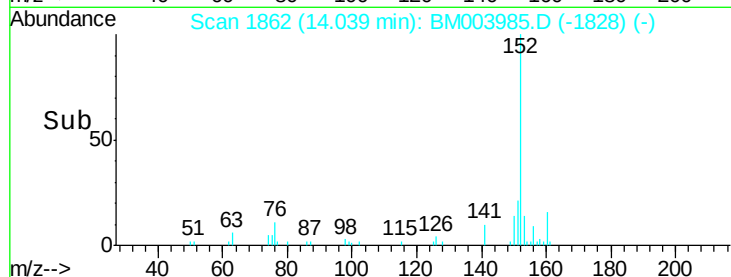
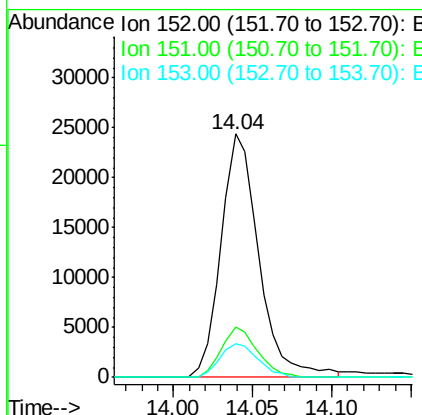
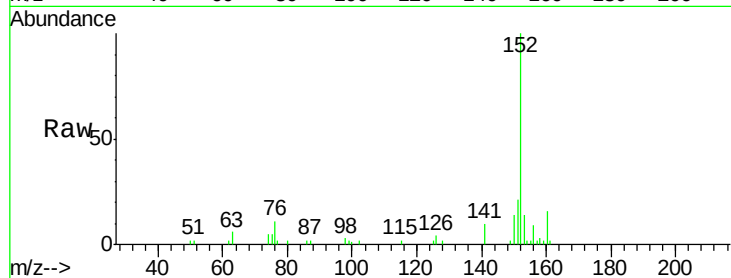
ClientSampleId :

BC9A7

Tot Ion:	152	Resp:	40448
Ion Ratio	Lower	Upper	
152	100		
151	20.6	15.7	23.5
153	13.9	10.5	15.7

Manual Integrations
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#50

Acenaphthene

Concen: 4.39 ng/ul

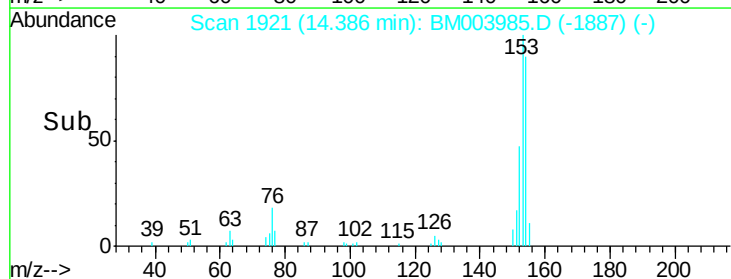
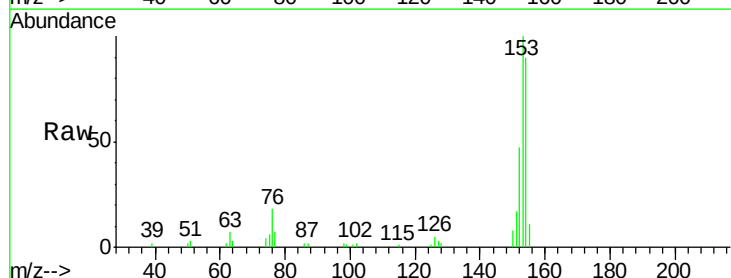
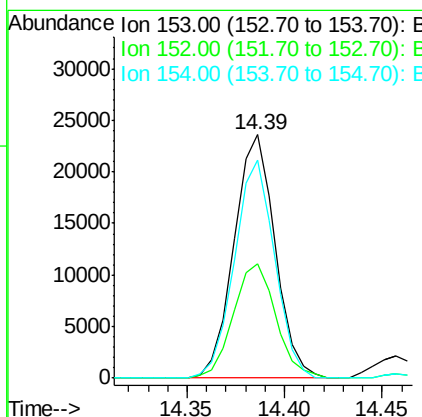
RT: 14.39 min Scan# 1921

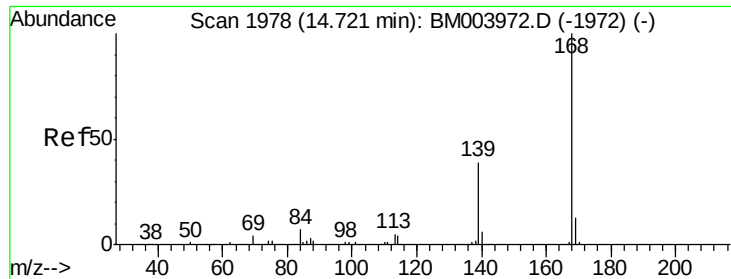
Delta R.T. 0.00 min

Lab File: BM003985.D

Acq: 13 Jan 2016 10:49

Tgt Ion:	153	Resp:	34430
Ion Ratio	Lower	Upper	
153	100		
152	47.0	38.3	57.5
154	89.6	71.8	107.8





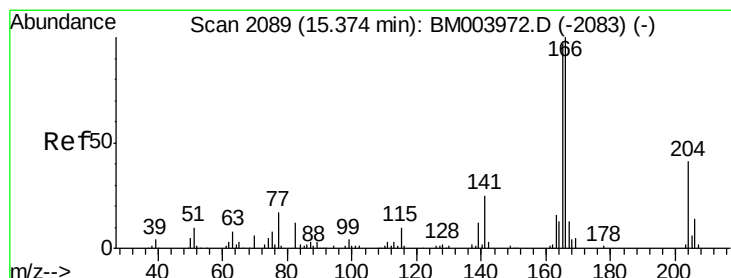
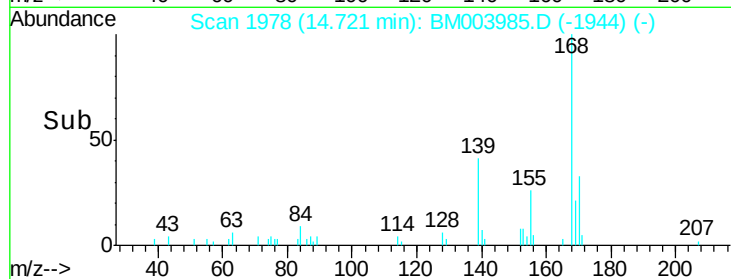
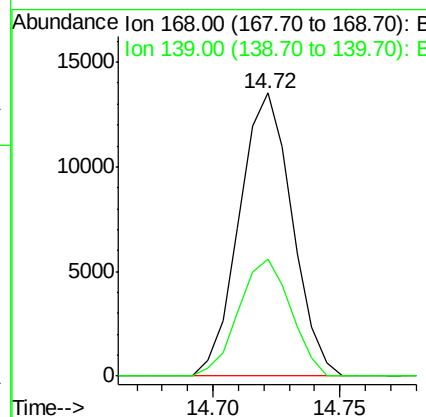
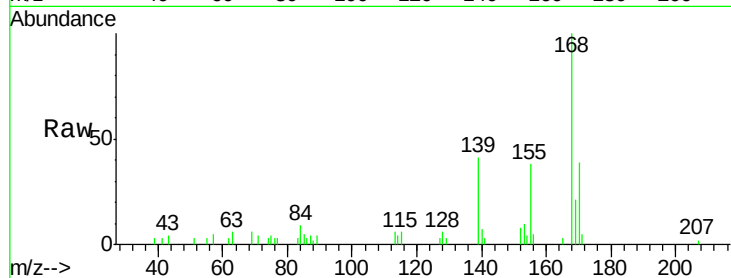
#54
Dibenzofuran
Concen: 1.79 ng/ul
RT: 14.72 min Scan# 1978
Delta R.T. 0.00 min
Lab File: BM003985.D
Acq: 13 Jan 2016 10:49

Instrument :
BNA_M
ClientSampleId :
BC9A7

Tot Ion	Ratio	Lower	Upper
168	100		
139	41.1	32.2	48.2

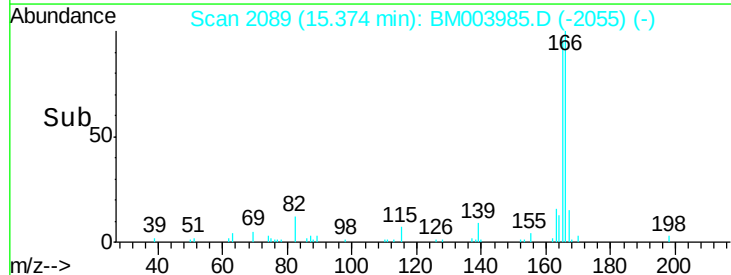
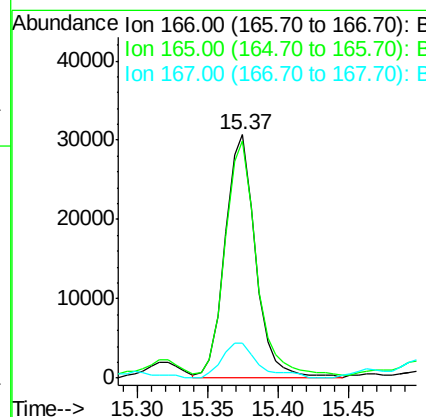
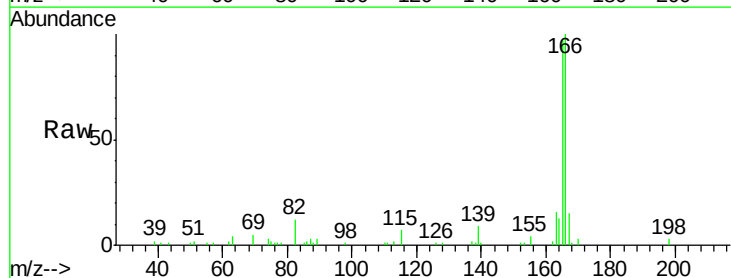
Manual Integrations
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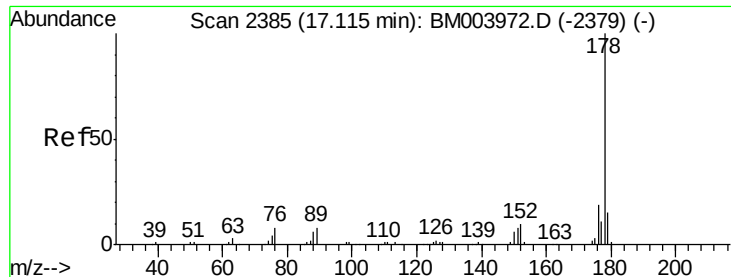
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#59
Fluorene
Concen: 5.32 ng/ul
RT: 15.37 min Scan# 2089
Delta R.T. 0.00 min
Lab File: BM003985.D
Acq: 13 Jan 2016 10:49

Tgt Ion	Ratio	Lower	Upper
166	100		
165	97.3	78.5	117.7
167	14.5	10.7	16.1





#70

Phenanthrene

Concen: 52.82 ng/ul

RT: 17.12 min Scan# 2385

Delta R.T. 0.00 min

Lab File: BM003985.D

Acq: 13 Jan 2016 10:49

Instrument :

BNA_M

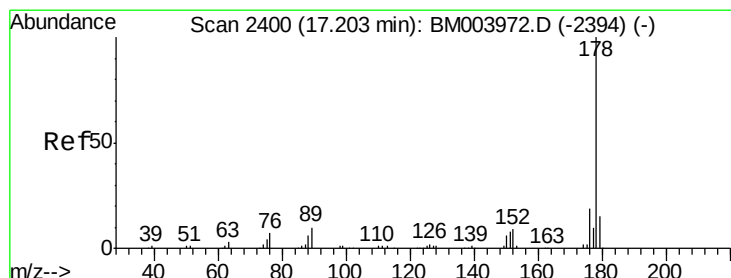
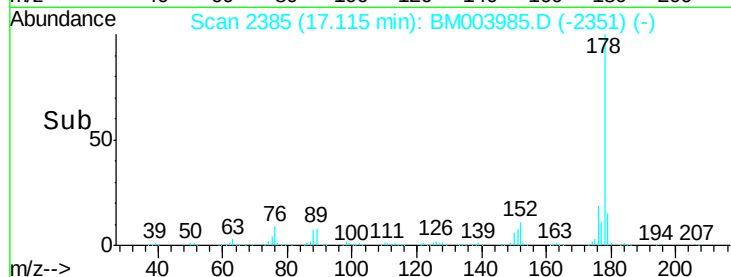
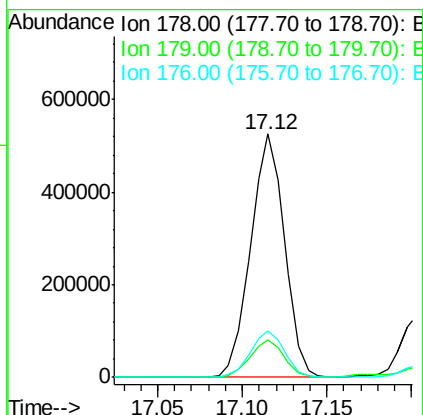
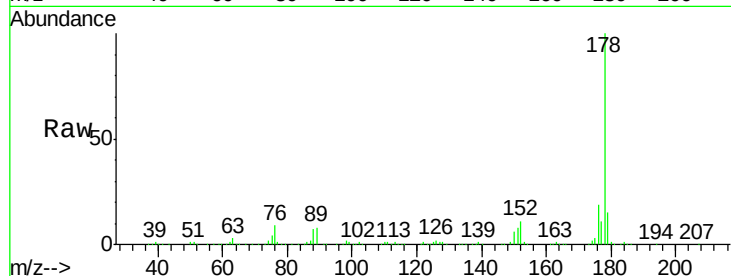
ClientSampleId :

BC9A7

Tot Ion:	178	Resp:	732328
Ion Ratio	Lower	Upper	
178	100		
179	15.3	12.2	18.4
176	19.4	15.6	23.4

Manual Integrations
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#72

Anthracene

Concen: 13.05 ng/ul

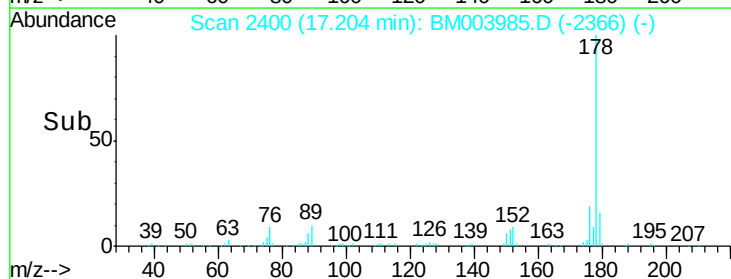
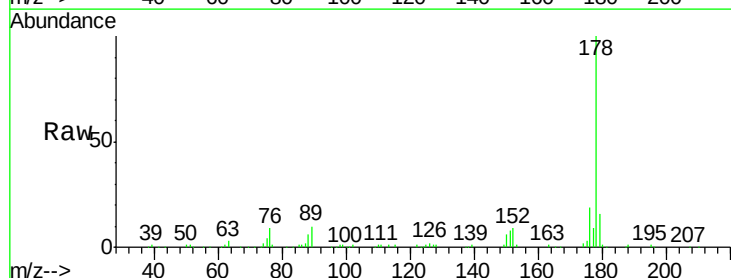
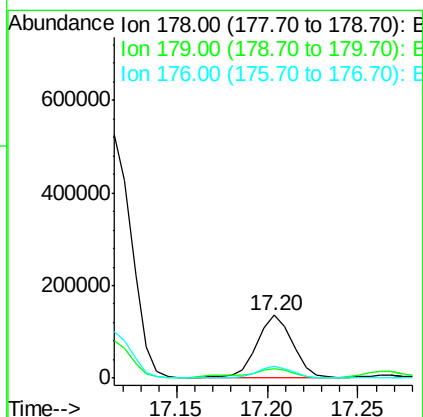
RT: 17.20 min Scan# 2400

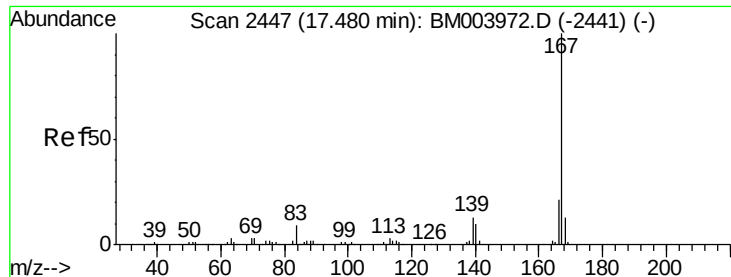
Delta R.T. 0.00 min

Lab File: BM003985.D

Acq: 13 Jan 2016 10:49

Tgt Ion:	178	Resp:	185645
Ion Ratio	Lower	Upper	
178	100		
179	15.5	12.1	18.1
176	19.2	14.8	22.2





#75

Carbazole

Concen: 6.99 ng/ul

RT: 17.48 min Scan# 2447

Delta R.T. 0.00 min

Lab File: BM003985.D

Acq: 13 Jan 2016 10:49

Instrument :

BNA_M

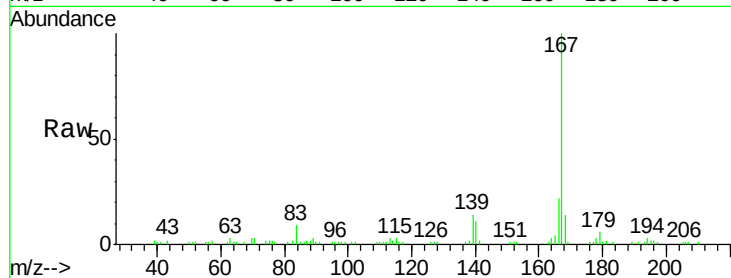
ClientSampleId :

BC9A7

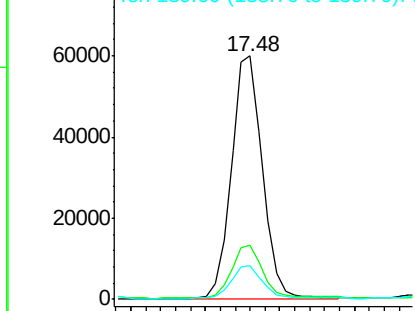
Tot Ion:	167	Resp:	87478
Ion Ratio	Lower	Upper	
167	100		
166	22.3	17.0	25.6
139	13.8	11.0	16.4

Manual Integrations
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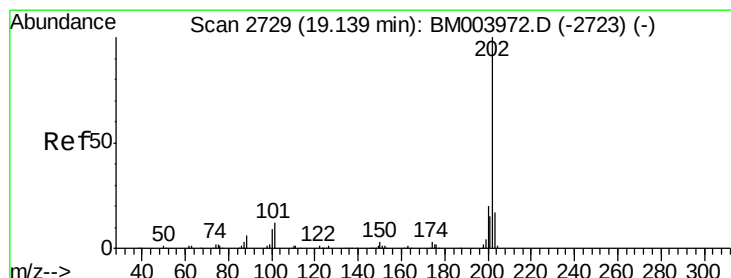
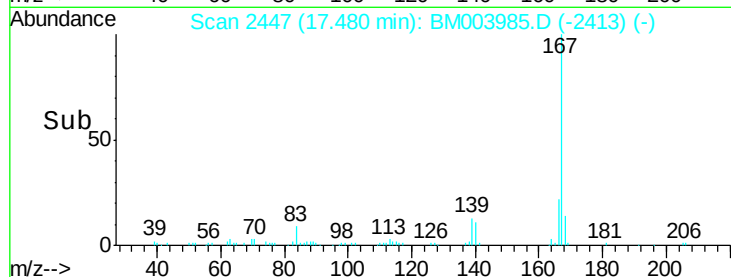
MMdadoda
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Abundance Ion 167.00 (166.70 to 167.70): E
Ion 166.00 (165.70 to 166.70): E
Ion 139.00 (138.70 to 139.70): E



Time--> 17.40 17.45 17.50 17.55



#77

Fluoranthene

Concen: 85.71 ng/ul

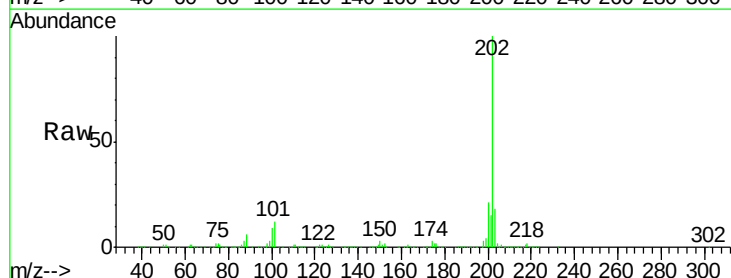
RT: 19.14 min Scan# 2730

Delta R.T. 0.01 min

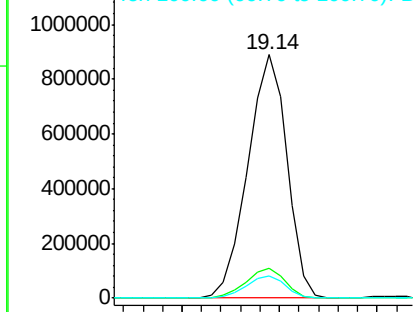
Lab File: BM003985.D

Acq: 13 Jan 2016 10:49

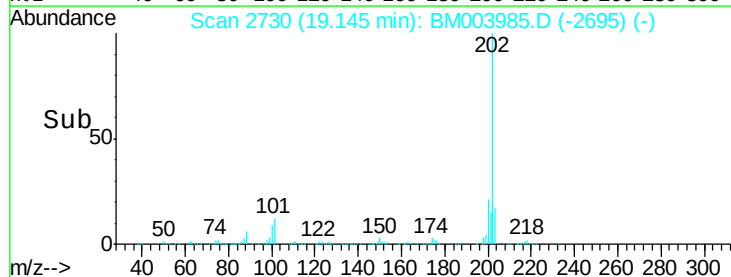
Tgt Ion:	202	Resp:	1234975
Ion Ratio	Lower	Upper	
202	100		
101	12.2	8.8	13.2
100	9.1	6.6	9.8

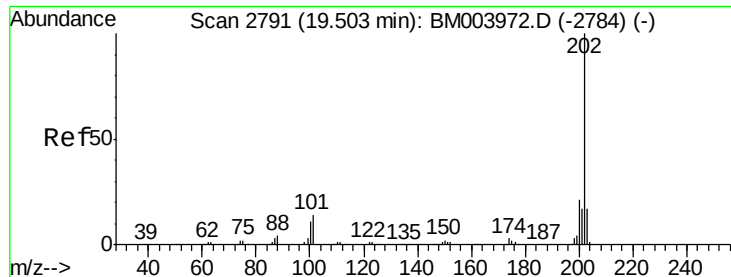


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 100.00 (99.70 to 100.70): B



Time--> 19.10 19.15 19.20





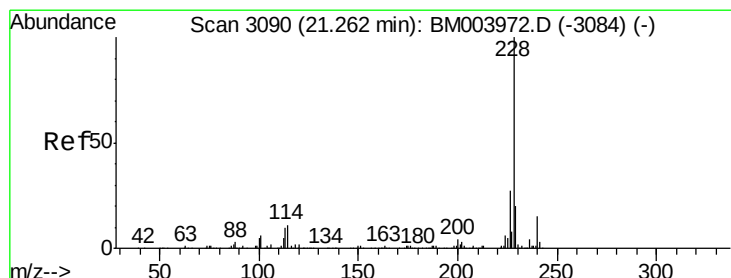
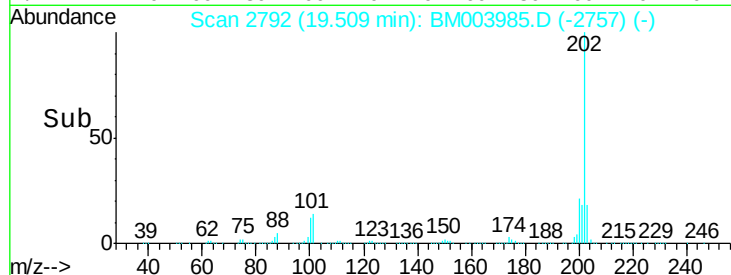
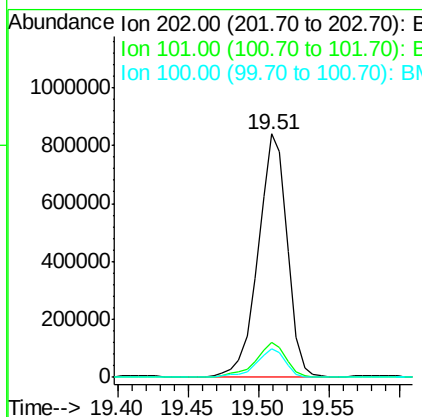
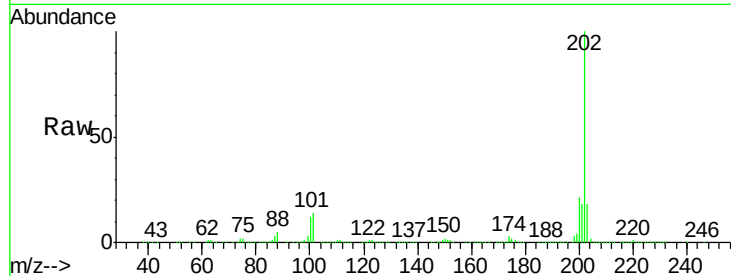
#80
Pvrene
Concen: 90.99 ng/ul
RT: 19.51 min Scan# 2792
Delta R.T. 0.01 min
Lab File: BM003985.D
Acq: 13 Jan 2016 10:49

Instrument :
BNA_M
ClientSampleId :
BC9A7

Tot Ion	Ratio	Lower	Upper
202	100		
101	14.1	10.2	15.2
100	11.6	8.5	12.7

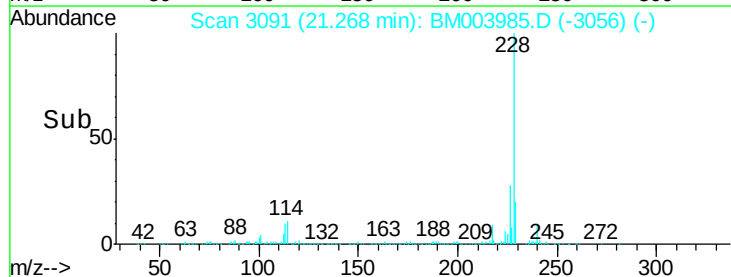
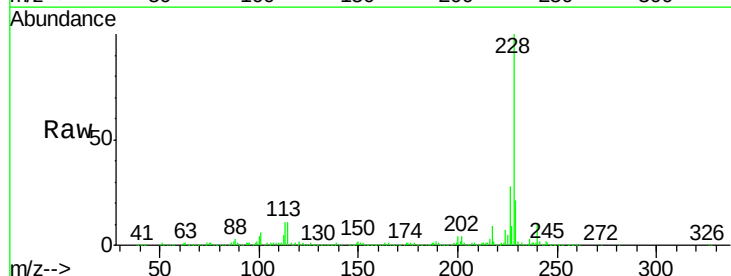
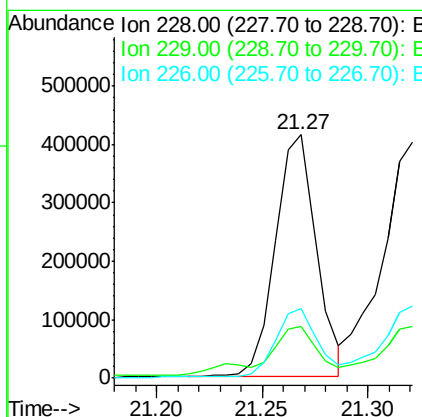
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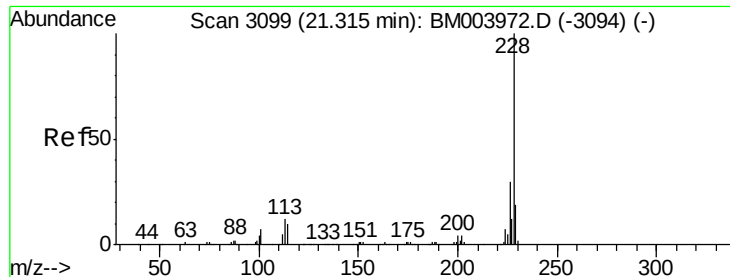
MMdadoda
1/13/2016 3:28:54 PM



#83
Benzo(a)anthracene
Concen: 47.63 ng/ul
RT: 21.27 min Scan# 3091
Delta R.T. 0.01 min
Lab File: BM003985.D
Acq: 13 Jan 2016 10:49

Tgt Ion	Ratio	Lower	Upper
228	100		
229	21.3	15.7	23.5
226	28.3	21.8	32.6





#85

Chrysene

Concen: 54.15 ng/ul

RT: 21.32 min Scan# 3100

Delta R.T. 0.01 min

Lab File: BM003985.D

Acq: 13 Jan 2016 10:49

Instrument :

BNA_M

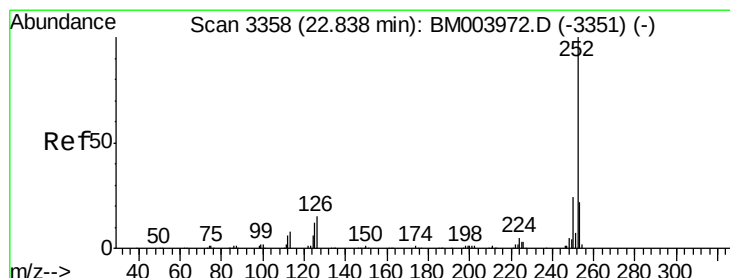
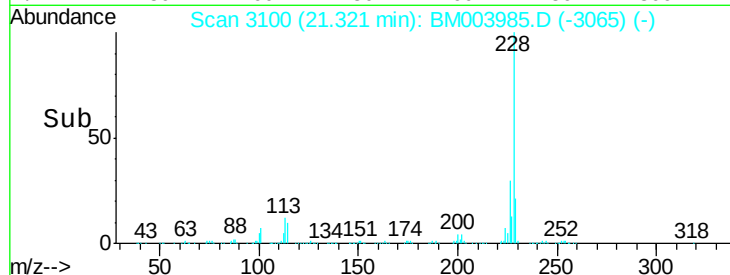
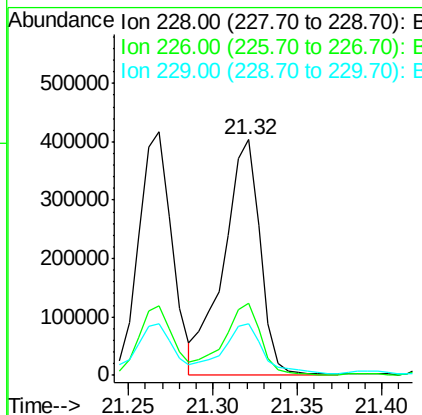
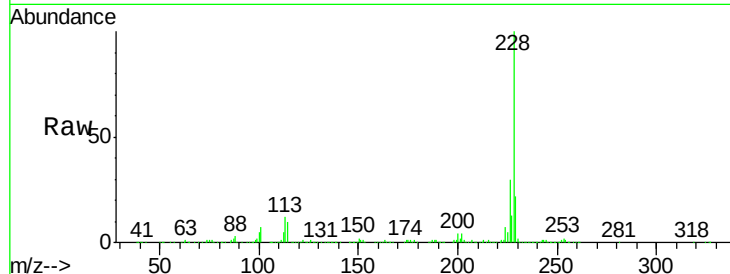
ClientSampled :

BC9A7

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.4	24.0	36.0
229	21.7	15.6	23.4

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#88

Benzo(b)fluoranthene

Concen: 55.52 ng/ul

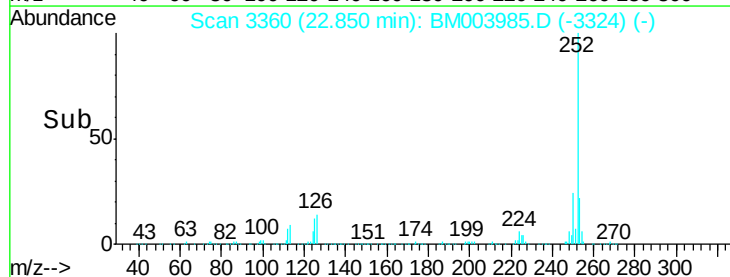
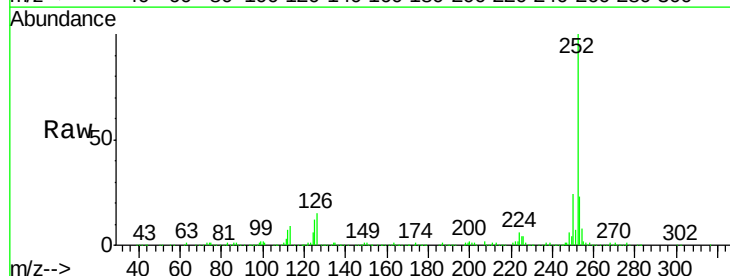
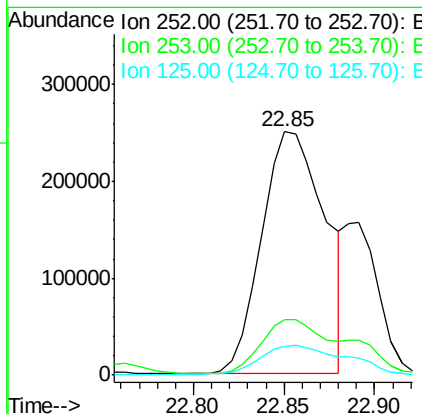
RT: 22.85 min Scan# 3360

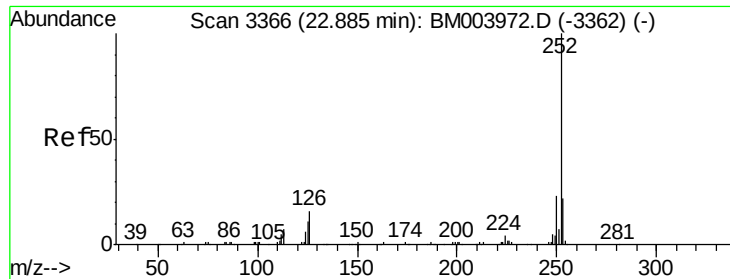
Delta R.T. 0.01 min

Lab File: BM003985.D

Acq: 13 Jan 2016 10:49

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.5	26.3
125	12.0	8.5	12.7





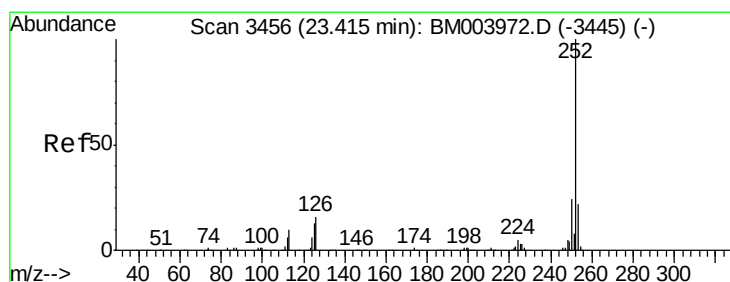
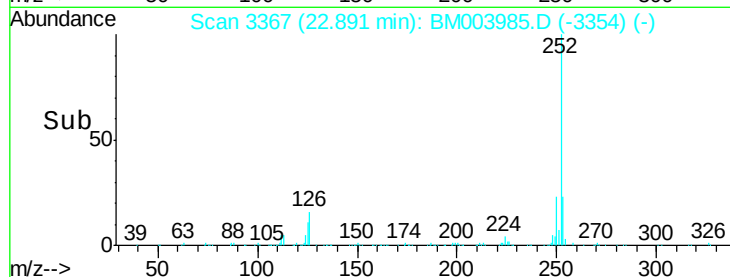
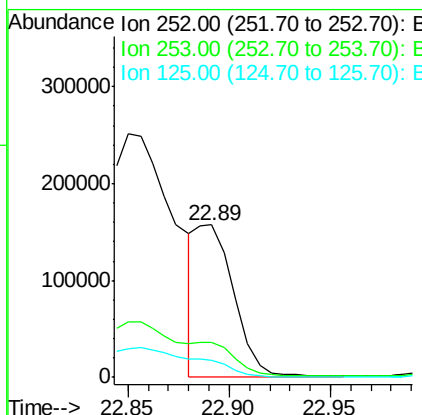
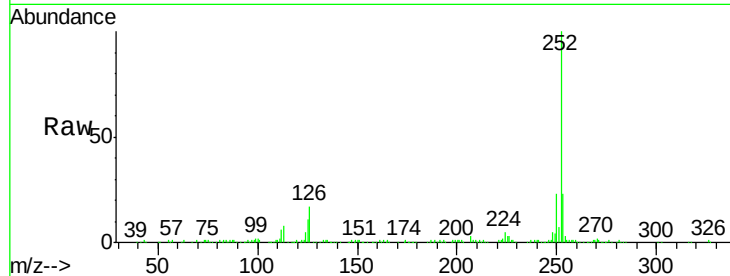
#89
Benzo(k)fluoranthene
Concen: 19.83 ng/ul m
RT: 22.89 min Scan# 3367
Delta R.T. 0.01 min
Lab File: BM003985.D
Acq: 13 Jan 2016 10:49

Instrument :
BNA_M
ClientSampleId :
BC9A7

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.3	25.9
125	11.3	8.2	12.2

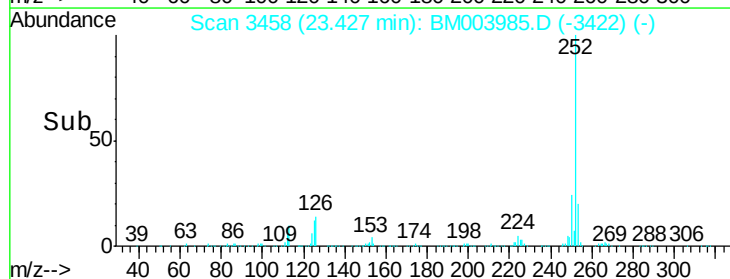
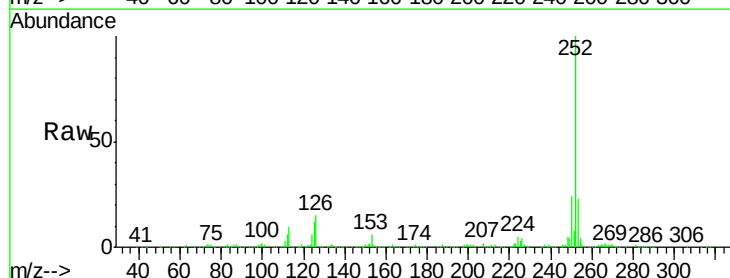
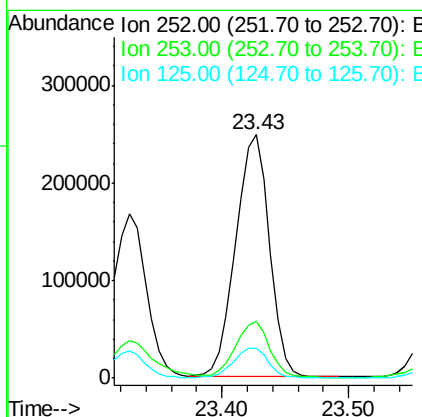
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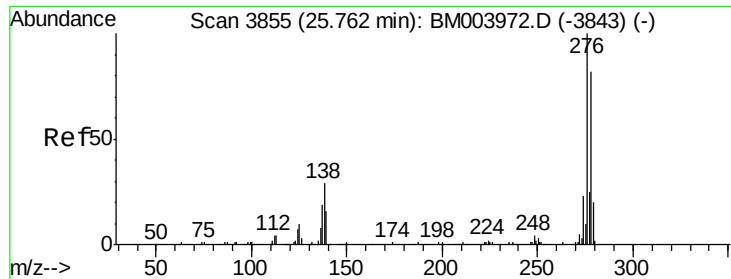
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#91
Benzo(a)pyrene
Concen: 44.09 ng/ul
RT: 23.43 min Scan# 3458
Delta R.T. 0.01 min
Lab File: BM003985.D
Acq: 13 Jan 2016 10:49

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.2	25.8
125	12.5	9.0	13.6





#92

Indeno(1,2,3-cd)pyrene

Concen: 24.26 ng/ul

RT: 25.77 min Scan# 3856

Delta R.T. 0.01 min

Lab File: BM003985.D

Acq: 13 Jan 2016 10:49

Instrument :

BNA_M

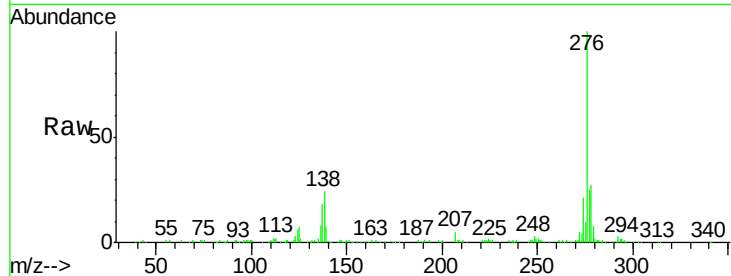
ClientSampleId :

BC9A7

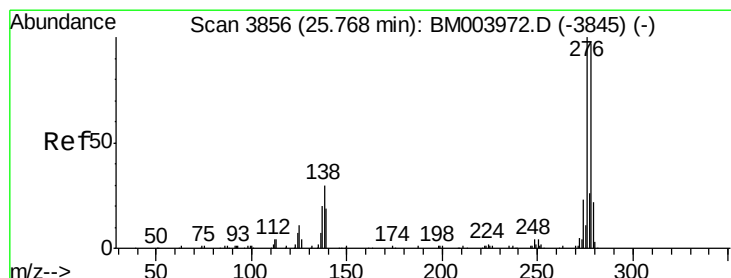
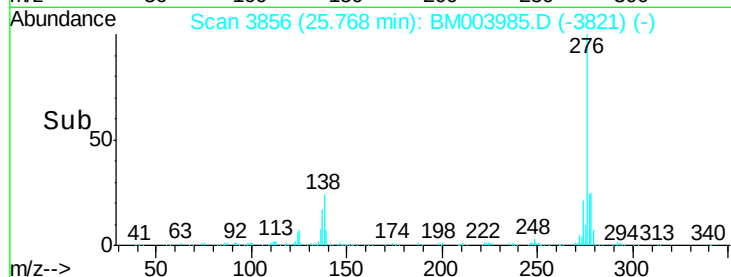
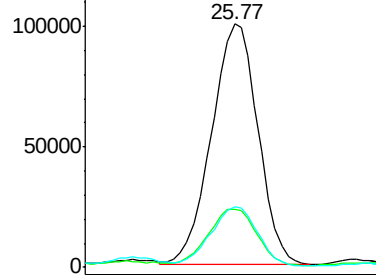
Tot Ion:	276	Resp:	279208
Ion Ratio	Lower	Upper	
276	100		
138	24.1	22.3	33.5
277	24.7	20.2	30.2

Manual Integrations
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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



#93

Dibenzo(a,h)anthracene

Concen: 8.62 ng/ul

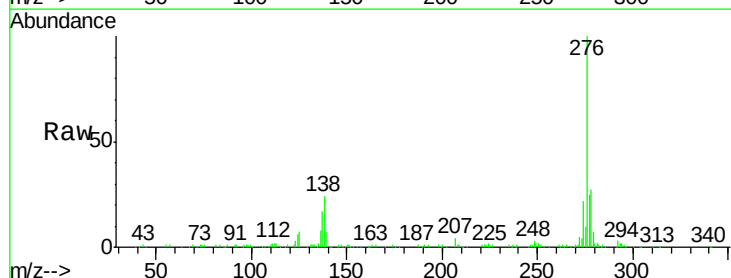
RT: 25.77 min Scan# 3857

Delta R.T. 0.01 min

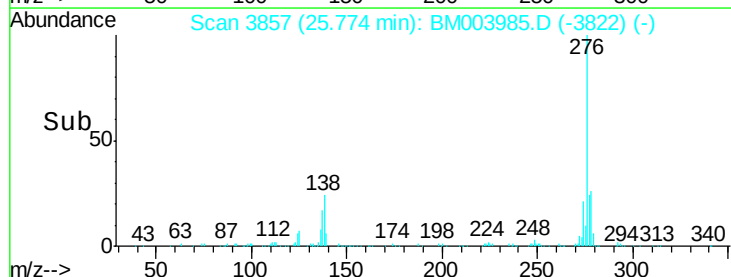
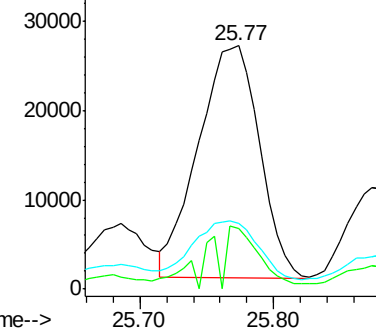
Lab File: BM003985.D

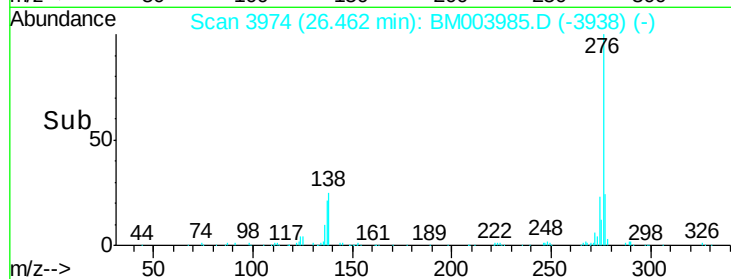
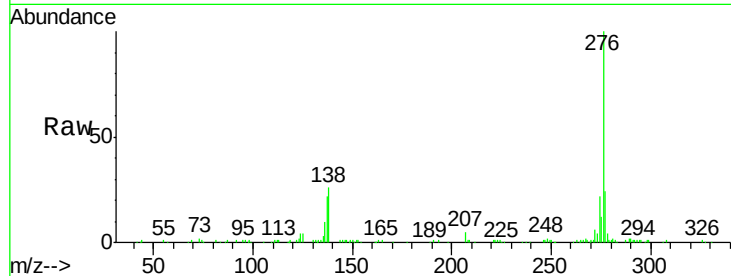
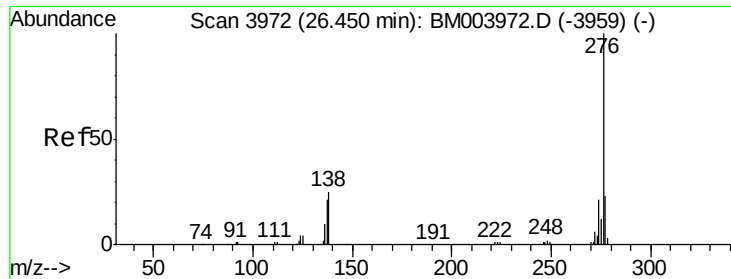
Acq: 13 Jan 2016 10:49

Tgt Ion:	278	Resp:	83365
Ion Ratio	Lower	Upper	
278	100		
139	24.9	13.9	20.9#
279	27.1	19.0	28.4



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





#94

Benzo(a,h,i)perylene

Concen: 27.76 ng/ul

RT: 26.46 min Scan# 3974

Delta R.T. 0.01 min

Lab File: BM003985.D

Acq: 13 Jan 2016 10:49

Instrument :

BNA_M

ClientSampleId :

BC9A7

Tot Ion:	276	Resp:	268213
Ion Ratio	Lower	Upper	
276	100		
138	25.5	18.9	28.3
277	24.1	19.2	28.8

Manual Integrations
APPROVED

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