

Data Path : Z:\HPCHEM1\BNA M\DATA\BM101217\
 Data File : BM012133.D
 Acq On : 13 Oct 2017 12:42
 Operator : SJ/JU
 Sample : I5568-01 5X
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 B-53(1-3)-092817

Manual Integrations
 APPROVED

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 6/22/2018 4:49:08 PM

Quant Time: Oct 24 05:28:26 2017
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM101217.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Sat Oct 14 00:15:07 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.85	152	173093	20.00	ng/ul	0.00
18) Naphthalene-d8	10.65	136	738533	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.50	164	450293	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.25	188	1099310	20.00	ng/ul	0.00
75) Chrysene-d12	21.43	240	1343416	20.00	ng/ul	0.00
83) Perylene-d12	23.77	264	1130152	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.25	96	3399	0.93	ng/uL	0.00
5) Phenol-d5	7.02	99	59314	4.22	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.17	67	39622	4.70	ng/ul	0.00
9) 2-Chlorophenol-d4	7.38	132	55053	4.62	ng/ul	0.00
13) 4-Methylphenol-d8	8.56	113	45959	3.80	ng/ul	0.00
19) Nitrobenzene-d5	9.02	128	26840	4.76	ng/ul	0.00
22) 2-Nitrophenol-d4	9.74	143	31445	4.77	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.28	165	61685	4.91	ng/ul	0.00
29) 4-Chloroaniline-d4	10.81	131	14992m	1.27	ng/ul	0.01
43) Dimethylphthalate-d6	13.90	166	205975	5.18	ng/ul	0.00
46) Acenaphthylene-d8	14.19	160	257992	5.36	ng/ul	0.00
51) 4-Nitrophenol-d4	14.74	143	18494	3.09	ng/ul	0.01
57) Fluorene-d10	15.49	176	178410	5.46	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.65	200	2903	0.38	ng/ul	0.00
70) Anthracene-d10	17.35	188	297330	5.47	ng/ul	0.00
76) Pyrene-d10	19.64	212	376495	5.52	ng/ul	0.00
87) Benzo(a)pyrene-d12	23.63	264	289910	5.32	ng/ul	0.00

Target Compounds

						Ovalue
28) Naphthalene	10.70	128	751405	19.67	ng/ul	98
34) 2-Methylnaphthalene	12.32	142	218320	7.57	ng/ul	93
40) 1,1'-Biphenyl	13.33	154	82186	2.16	ng/ul	96
47) Acenaphthylene	14.22	152	141510	2.99	ng/ul	98
49) Acenaphthene	14.56	153	1232836	38.69	ng/ul	99
53) Dibenzofuran	14.90	168	852829	18.59	ng/ul	99
58) Fluorene	15.55	166	1237385	32.47	ng/ul	99
69) Phenanthrene	17.30	178	13008686	208.02	ng/ul	95
71) Anthracene	17.39	178	3435612	53.07	ng/ul	99
72) Carbazole	17.66	167	1593700	29.09	ng/ul	98
73) Di-n-butylphthalate	18.20	149	354378	4.66	ng/ul	97
74) Fluoranthene	19.32	202	14413699	190.99	ng/ul#	81
77) Pyrene	19.68	202	13340218	150.36	ng/ul#	85
80) Benzo(a)anthracene	21.42	228	7466832	85.42	ng/ul	96
82) Chrysene	21.47	228	6316464	76.96	ng/ul	94
85) Benzo(b)fluoranthene	23.07	252	6322489	85.73	ng/ul#	97
86) Benzo(k)fluoranthene	23.11	252	2407100m	33.87	ng/ul	
88) Benzo(a)pyrene	23.68	252	4729177	68.03	ng/ul#	96
89) Indeno(1,2,3-cd)pyrene	26.19	276	2550117	34.55	ng/ul#	95
90) Dibenz(a,h)anthracene	26.18	278	686634	11.07	ng/ul#	80
91) Benzo(a,h,i)perylene	26.93	276	2253983	37.28	ng/ul#	92

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BNA_M
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B-53(1-3)-092817

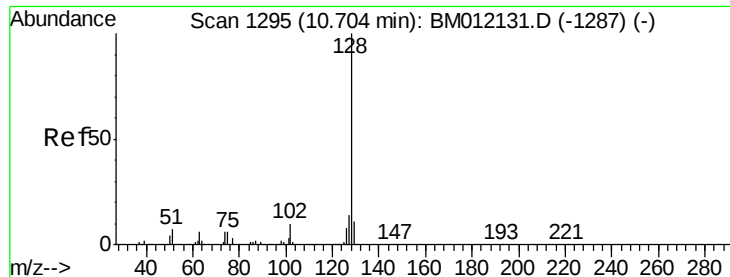
Manual Integrations
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Quant Time: Oct 24 05:28:26 2017
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM101217.M
Quant Title : SVOA CALIBRATION
QLast Update : Sat Oct 14 00:15:07 2017
Response via : Initial Calibration

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



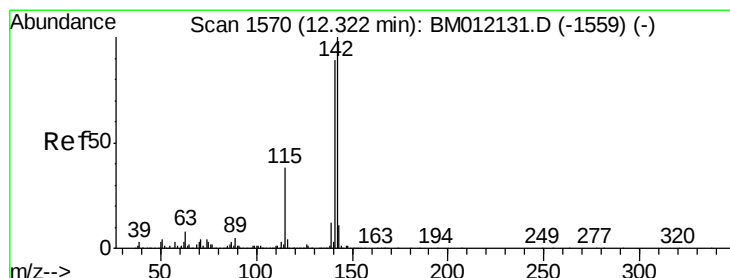
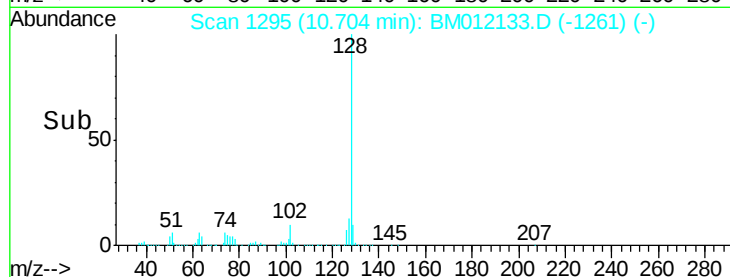
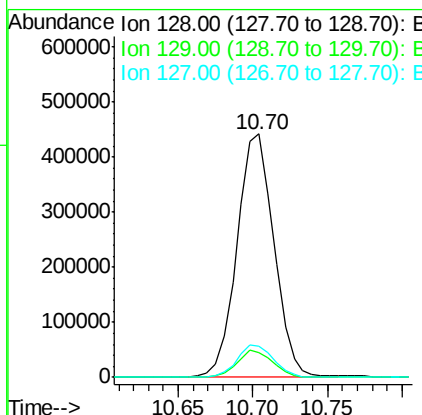
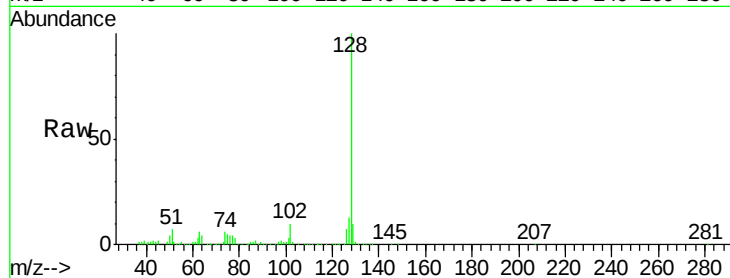
#28
Naphthalene
Concen: 19.67 ng/ul
RT: 10.70 min Scan# 1295
Delta R.T. 0.00 min
Lab File: BM012133.D
Acq: 13 Oct 2017 12:42

Instrument :
BNA_M
ClientSampleId :
B-53(1-3)-092817

Tot Ion	Ratio	Lower	Upper
128	100		
129	10.3	8.8	13.2
127	12.6	10.6	16.0

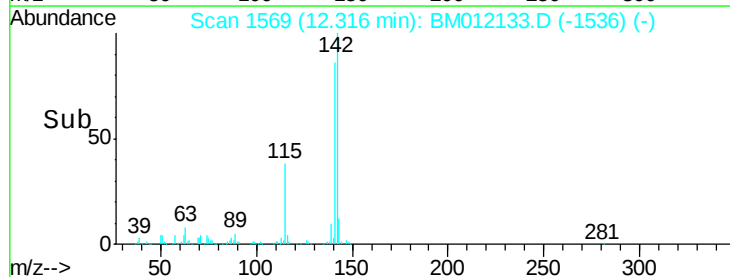
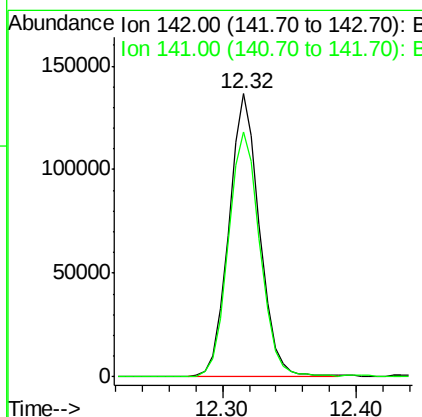
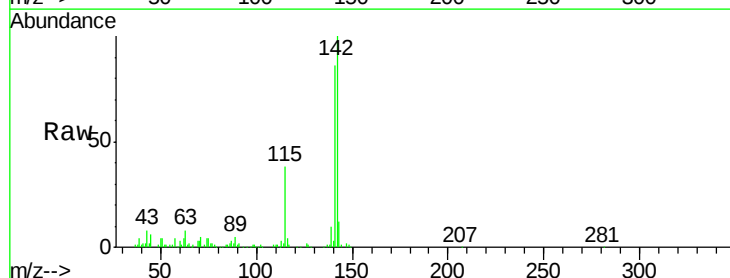
Manual Integrations
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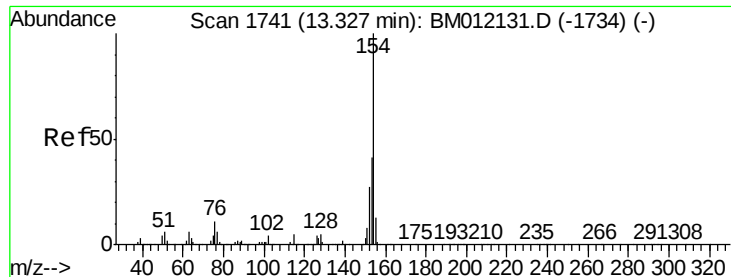
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#34
2-Methylnaphthalene
Concen: 7.57 ng/ul
RT: 12.32 min Scan# 1569
Delta R.T. -0.01 min
Lab File: BM012133.D
Acq: 13 Oct 2017 12:42

Tgt Ion	Ratio	Lower	Upper
142	100		
141	86.4	74.1	111.1





#40

1,1'-Biphenyl

Concen: 2.16 ng/ul

RT: 13.33 min Scan# 1741

Delta R.T. 0.00 min

Lab File: BM012133.D

Acq: 13 Oct 2017 12:42

Instrument :

BNA_M

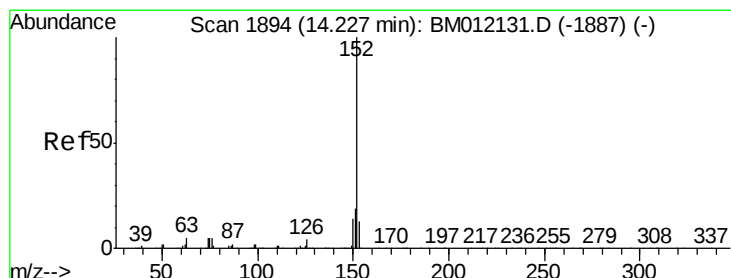
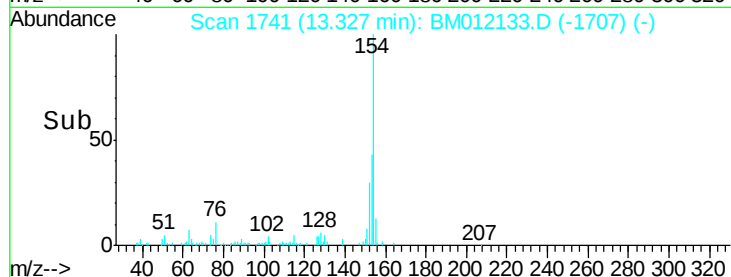
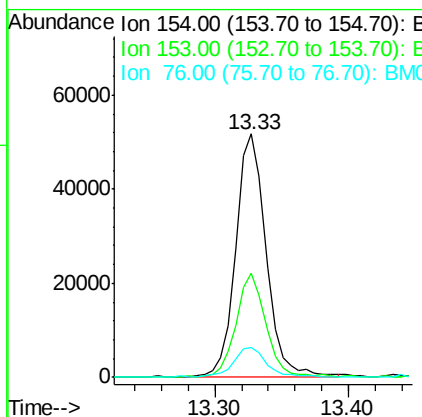
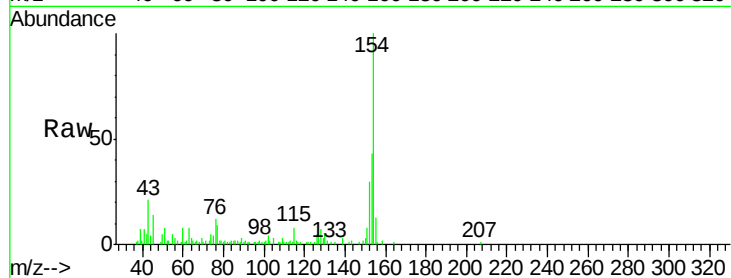
ClientSampleId :

B-53(1-3)-092817

Tot Ion:	154	Resp:	82186
Ion Ratio	Lower	Upper	
154	100		
153	42.9	32.6	48.8
76	12.2	8.5	12.7

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#47

Acenaphthylene

Concen: 2.99 ng/ul

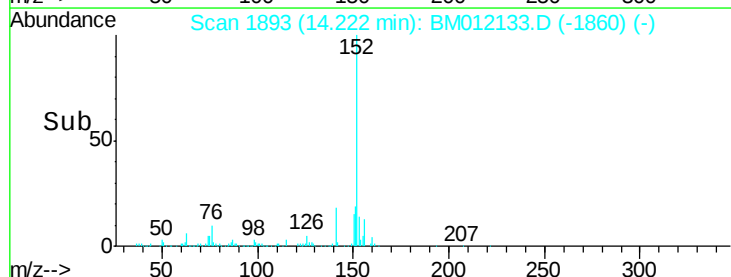
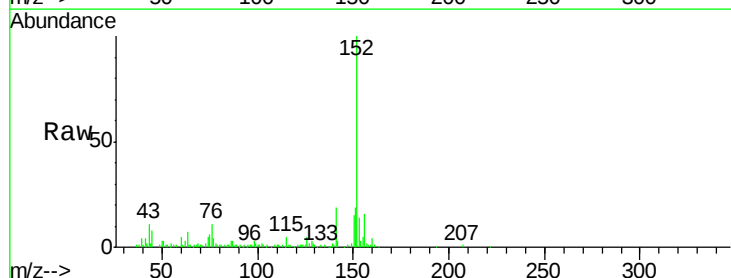
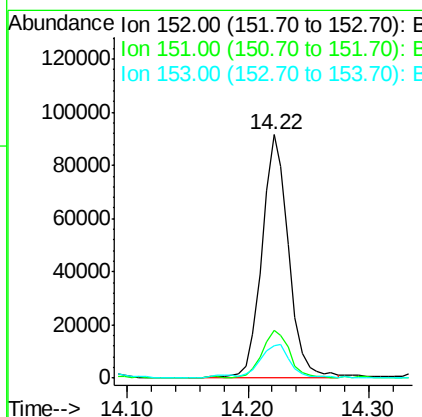
RT: 14.22 min Scan# 1893

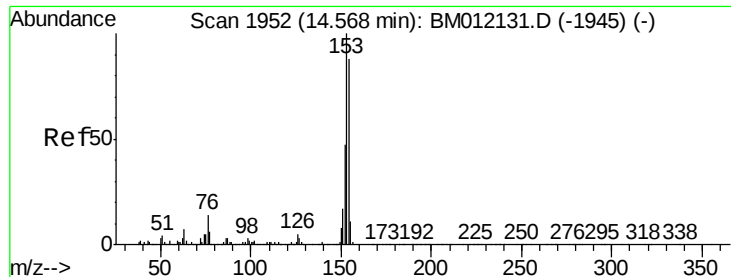
Delta R.T. -0.01 min

Lab File: BM012133.D

Acq: 13 Oct 2017 12:42

Tgt Ion:	152	Resp:	141510
Ion Ratio	Lower	Upper	
152	100		
151	19.4	16.3	24.5
153	13.5	10.2	15.4





#49

Acenaphthene

Concen: 38.69 ng/ul

RT: 14.56 min Scan# 1951

Delta R.T. -0.01 min

Lab File: BM012133.D

Acq: 13 Oct 2017 12:42

Instrument :

BNA_M

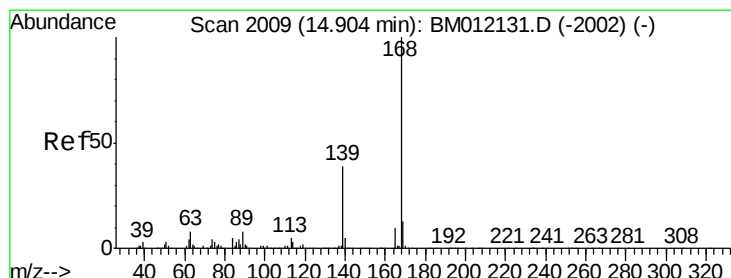
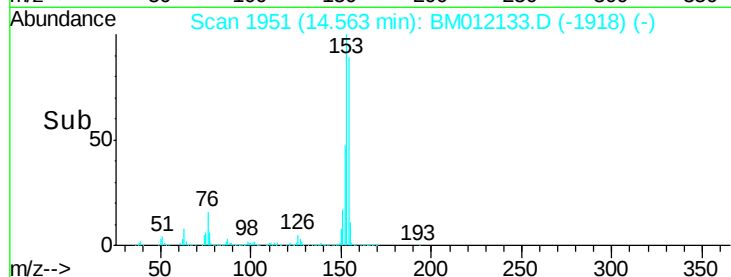
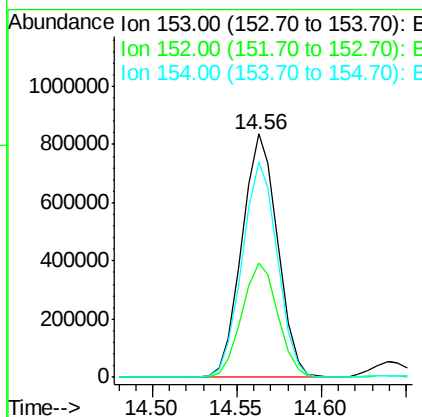
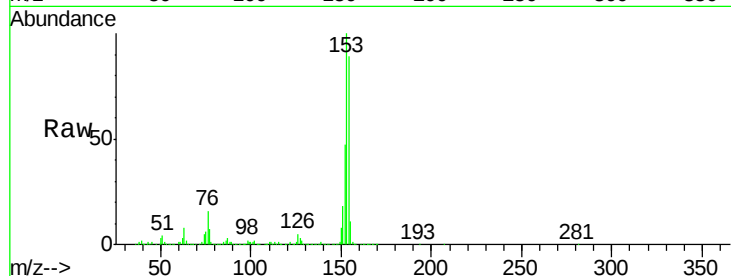
ClientSampleId :

B-53(1-3)-092817

Tot Ion:	153	Resp:	1232836
Ion	Ratio	Lower	Upper
153	100		
152	47.2	37.6	56.4
154	88.7	70.4	105.6

Manual Integrations
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#53

Dibenzofuran

Concen: 18.59 ng/ul

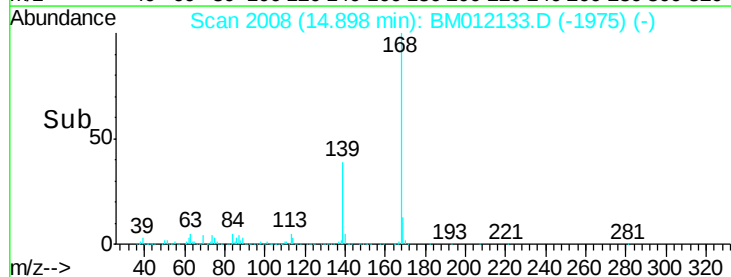
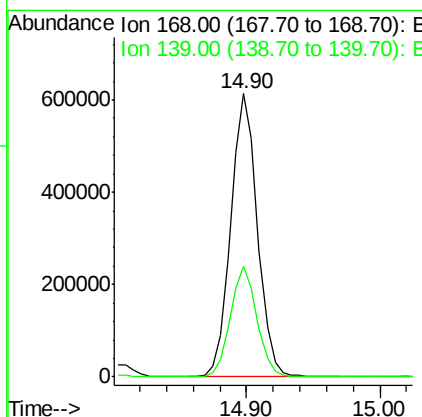
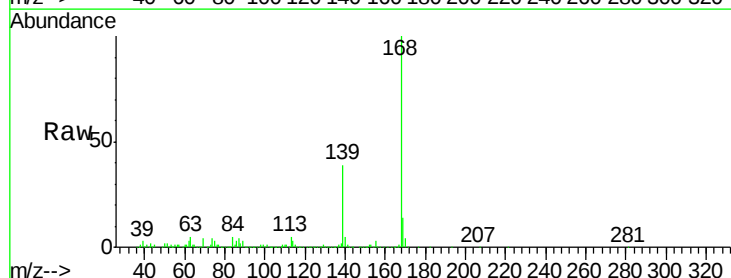
RT: 14.90 min Scan# 2008

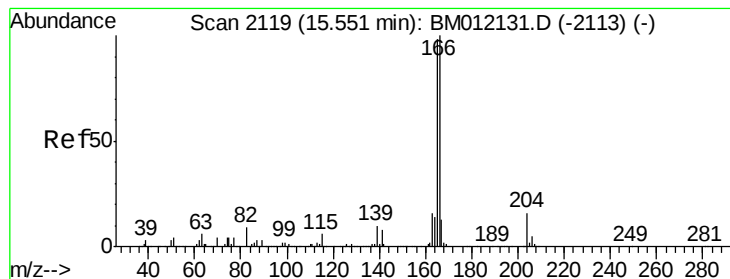
Delta R.T. -0.01 min

Lab File: BM012133.D

Acq: 13 Oct 2017 12:42

Tgt Ion:	168	Resp:	852829
Ion	Ratio	Lower	Upper
168	100		
139	38.9	30.8	46.2





#58

Fluorene

Concen: 32.47 ng/ul

RT: 15.55 min Scan# 2119

Delta R.T. 0.00 min

Lab File: BM012133.D

Acq: 13 Oct 2017 12:42

Instrument :

BNA_M

ClientSampleId :

B-53(1-3)-092817

Tot Ion:166 Resp: 1237385

Ion Ratio Lower Upper

166 100

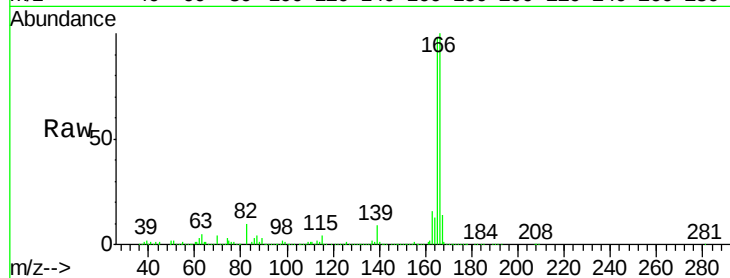
165 98.1 77.9 116.9

167 14.0 10.6 16.0

Manual Integrations
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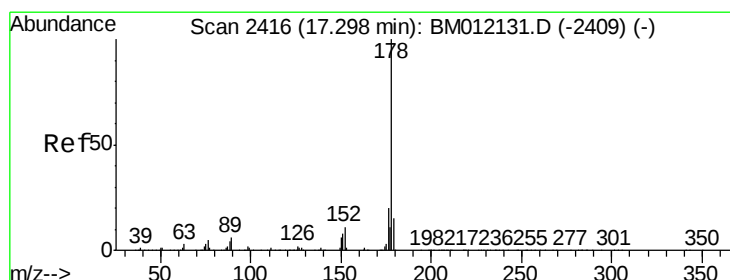
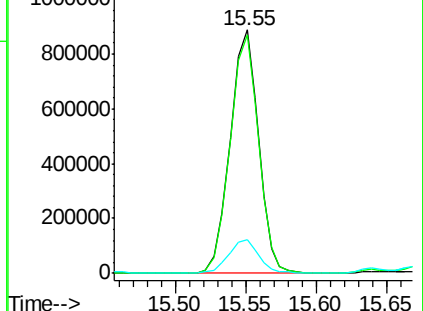
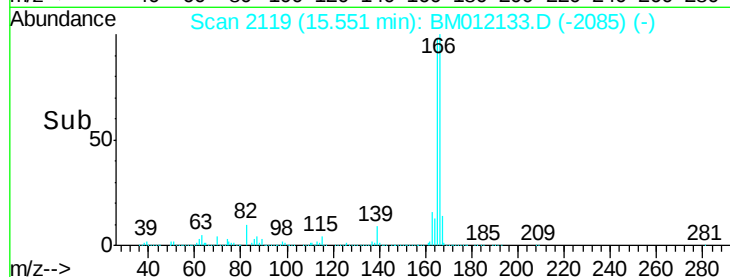
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Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#69

Phenanthrene

Concen: 208.02 ng/ul

RT: 17.30 min Scan# 2416

Delta R.T. 0.00 min

Lab File: BM012133.D

Acq: 13 Oct 2017 12:42

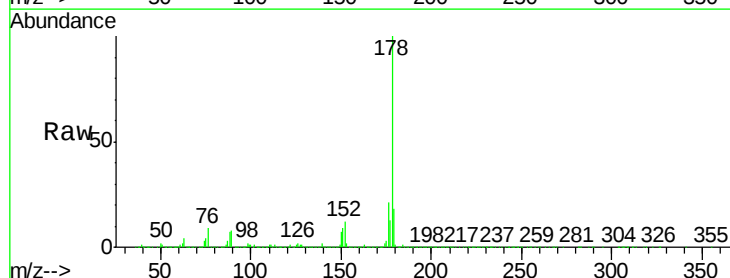
Tgt Ion:178 Resp:13008686

Ion Ratio Lower Upper

178 100

179 17.6 12.6 19.0

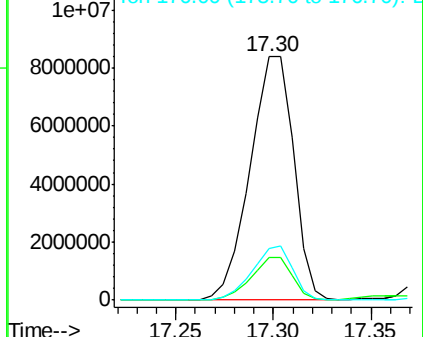
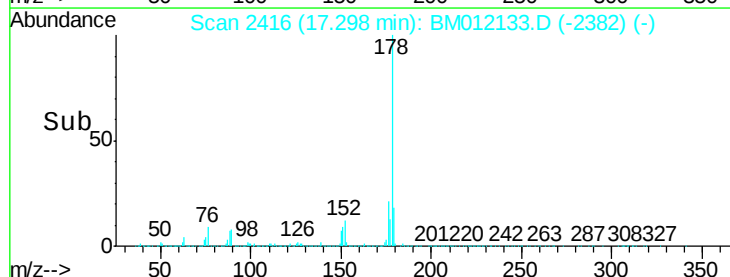
176 21.4 14.9 22.3

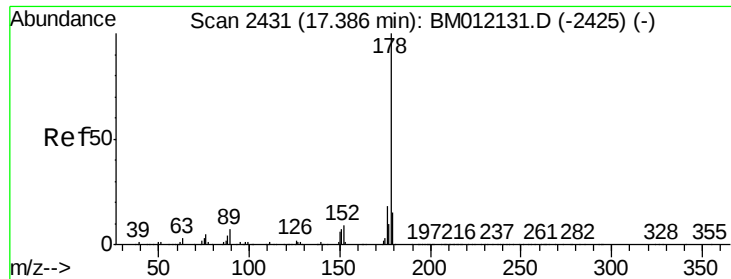


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





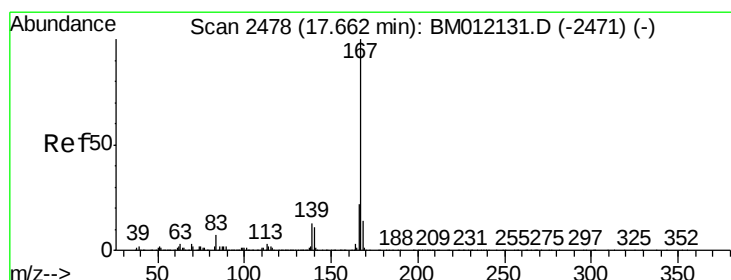
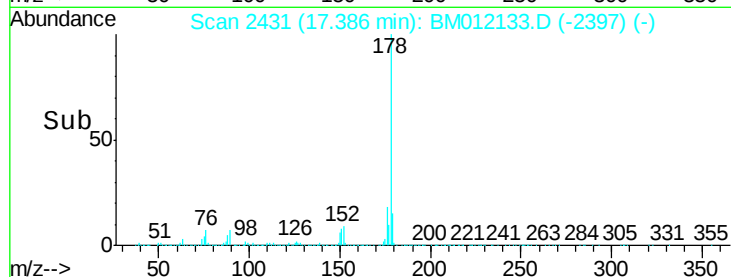
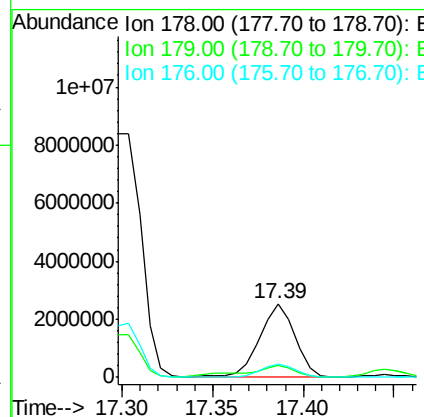
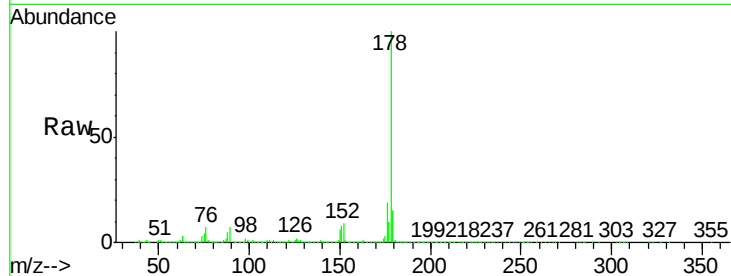
#71
 Anthracene
 Concen: 53.07 ng/ul
 RT: 17.39 min Scan# 2431
 Delta R.T. 0.00 min
 Lab File: BM012133.D
 Acq: 13 Oct 2017 12:42

Instrument :
 BNA_M
 ClientSampleId :
 B-53(1-3)-092817

Tot Ion:178 Resp: 3435612
 Ion Ratio Lower Upper
 178 100
 179 15.4 11.7 17.5
 176 18.5 14.6 21.8

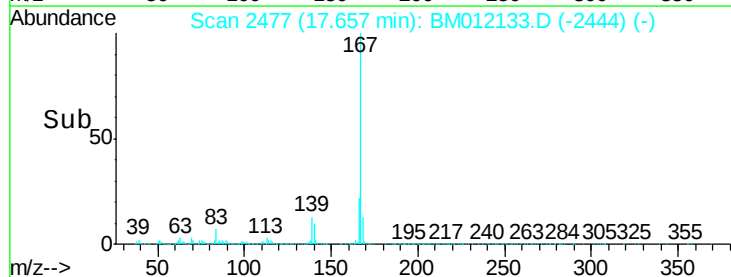
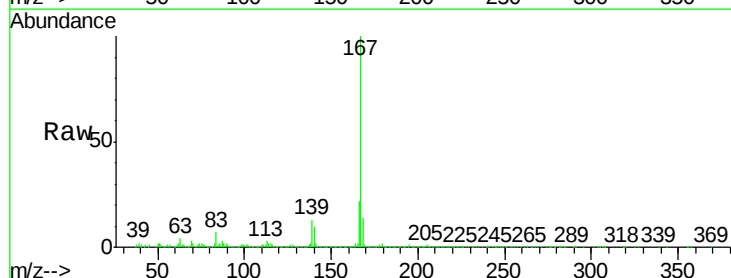
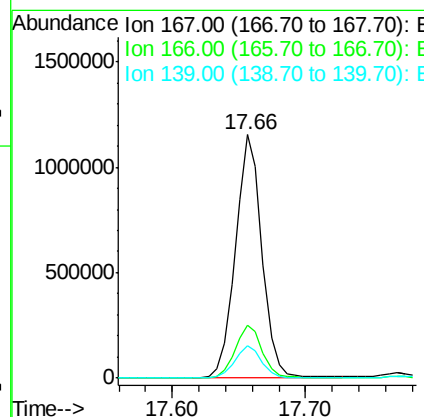
Manual Integrations
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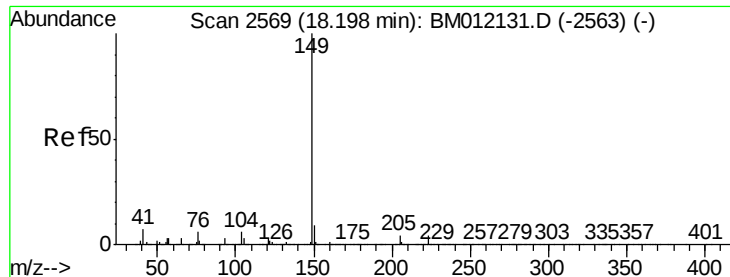
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#72
 Carbazole
 Concen: 29.09 ng/ul
 RT: 17.66 min Scan# 2477
 Delta R.T. -0.01 min
 Lab File: BM012133.D
 Acq: 13 Oct 2017 12:42

Tgt Ion:167 Resp: 1593700
 Ion Ratio Lower Upper
 167 100
 166 21.9 17.1 25.7
 139 13.4 10.0 15.0





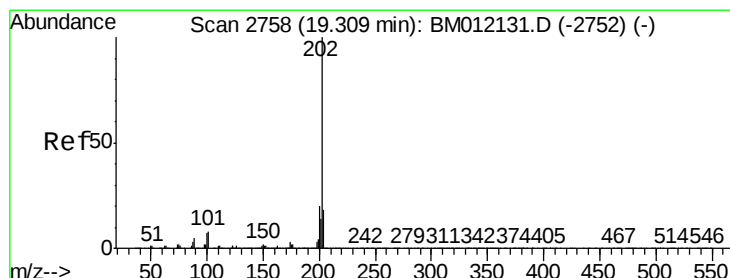
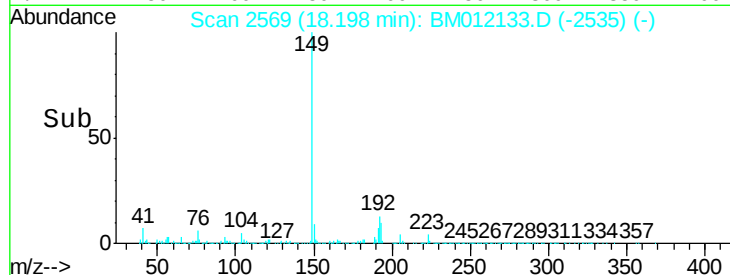
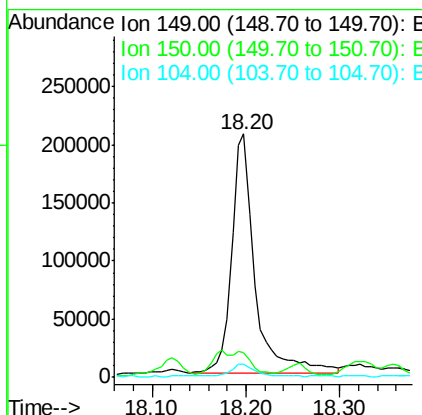
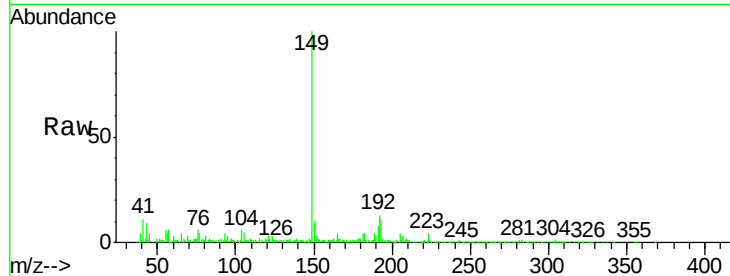
#73
Di-n-butylphthalate
Concen: 4.66 ng/ul
RT: 18.20 min Scan# 2569
Delta R.T. 0.00 min
Lab File: BM012133.D
Acq: 13 Oct 2017 12:42

Instrument :
BNA_M
ClientSampleId :
B-53(1-3)-092817

Tot Ion	Ion	Ratio	Resp	Lower	Upper
149	100				
150	10.0	7.1	10.7		
104	5.7	5.6	8.4		

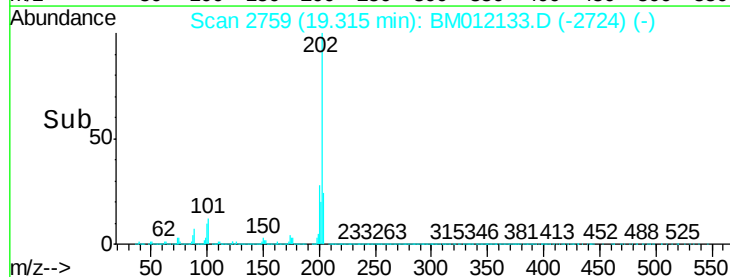
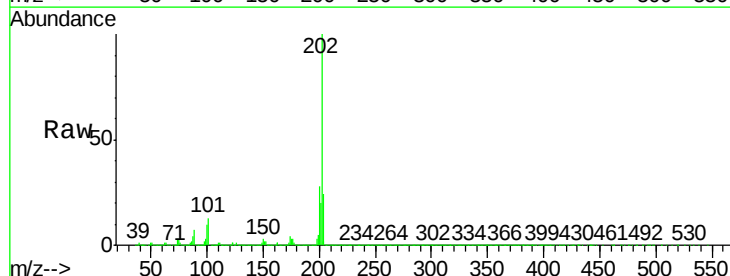
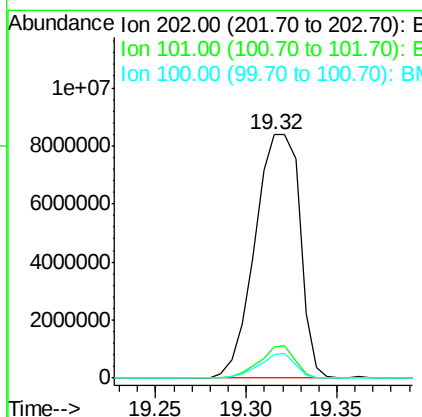
Manual Integrations
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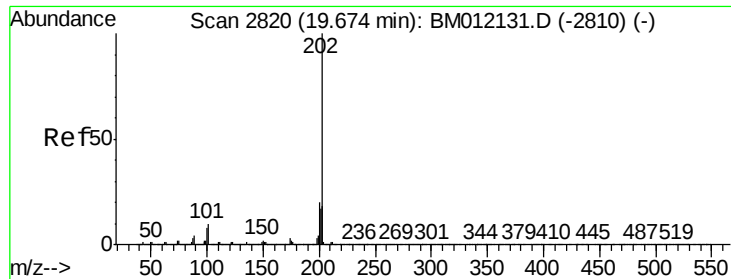
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#74
Fluoranthene
Concen: 190.99 ng/ul
RT: 19.32 min Scan# 2759
Delta R.T. 0.01 min
Lab File: BM012133.D
Acq: 13 Oct 2017 12:42

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
202	100				
101	12.5	4.6	7.0#		
100	9.7	3.4	5.2#		





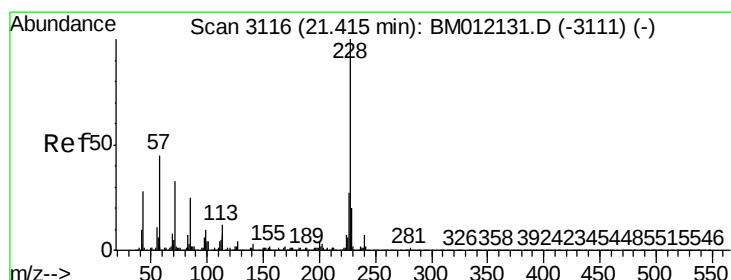
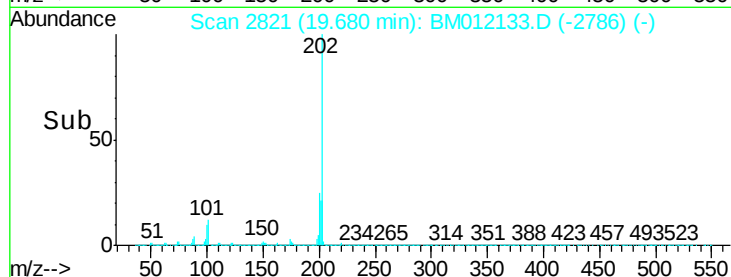
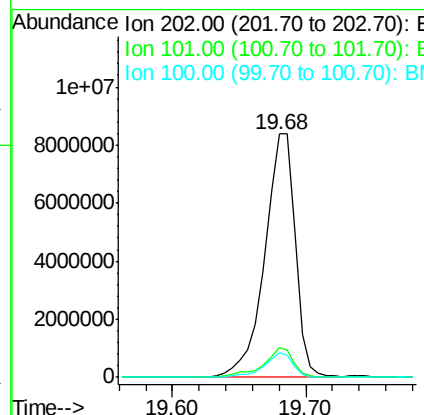
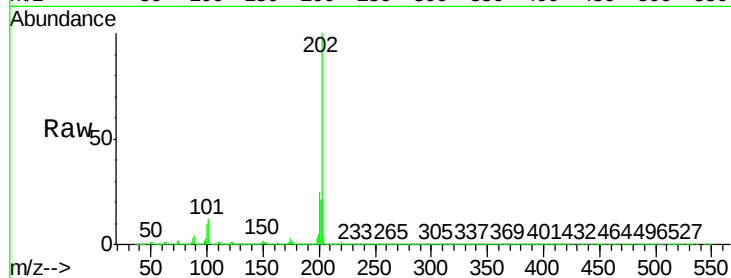
#77
Pvrene
Concen: 150.36 ng/ul
RT: 19.68 min Scan# 2821
Delta R.T. 0.01 min
Lab File: BM012133.D
Acq: 13 Oct 2017 12:42

Instrument :
BNA_M
ClientSampleId :
B-53(1-3)-092817

Tot Ion:202 Resp:13340218
Ion Ratio Lower Upper
202 100
101 12.4 5.1 7.7#
100 10.2 4.9 7.3#

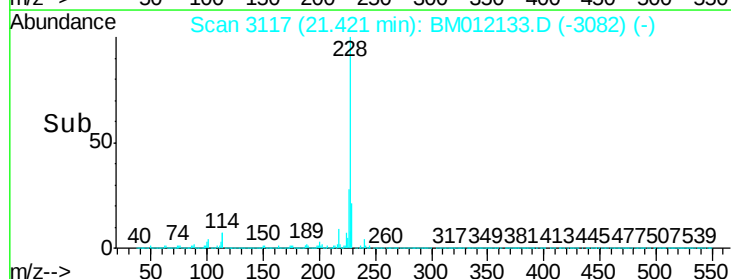
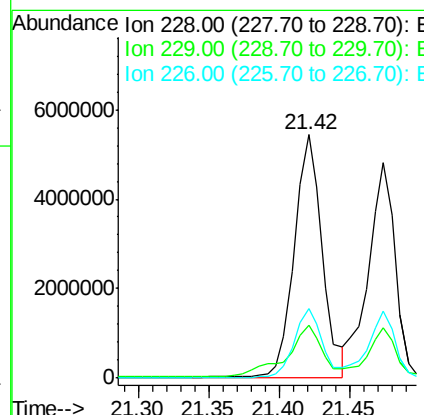
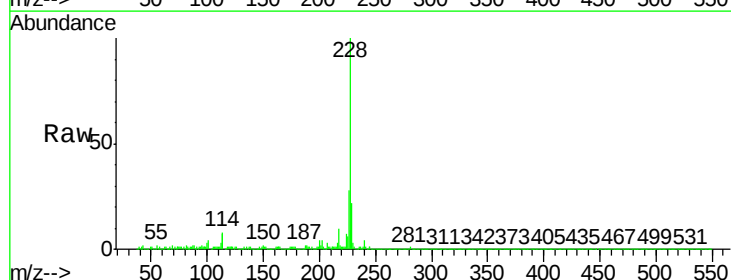
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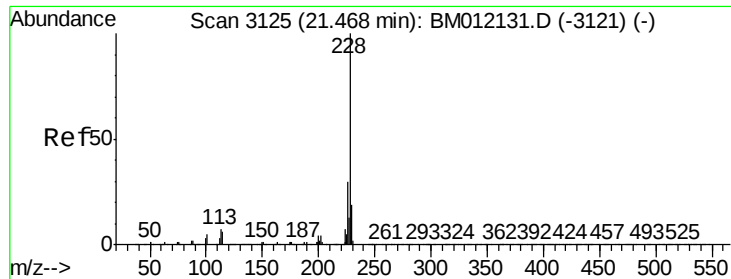
Sohil
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#80
Benzo(a)anthracene
Concen: 85.42 ng/ul
RT: 21.42 min Scan# 3117
Delta R.T. 0.01 min
Lab File: BM012133.D
Acq: 13 Oct 2017 12:42

Tgt Ion:228 Resp: 7466832
Ion Ratio Lower Upper
228 100
229 21.5 15.4 23.0
226 28.5 21.4 32.0





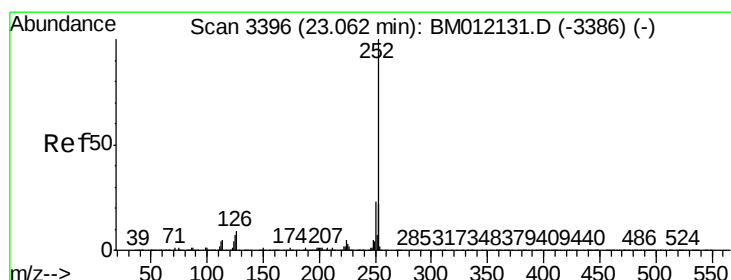
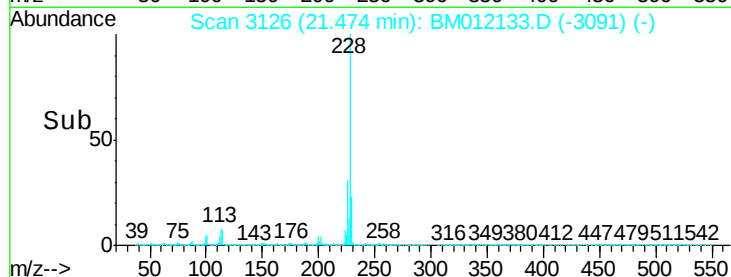
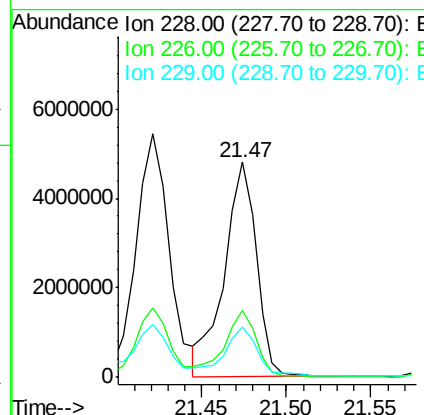
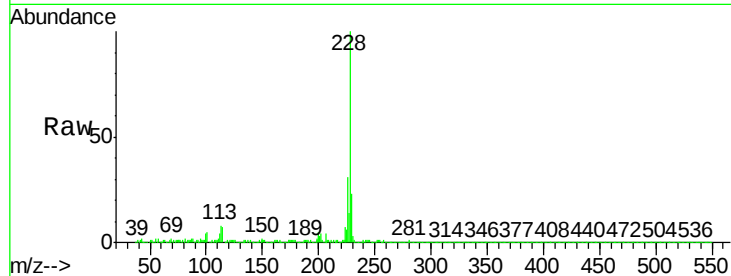
#82
Chrysene
Concen: 76.96 ng/ul
RT: 21.47 min Scan# 3126
Delta R.T. 0.01 min
Lab File: BM012133.D
Acq: 13 Oct 2017 12:42

Instrument :
BNA_M
ClientSampleId :
B-53(1-3)-092817

Tot Ion	Ratio	Lower	Upper
228	100		
226	31.3	23.4	35.2
229	23.2	15.5	23.3

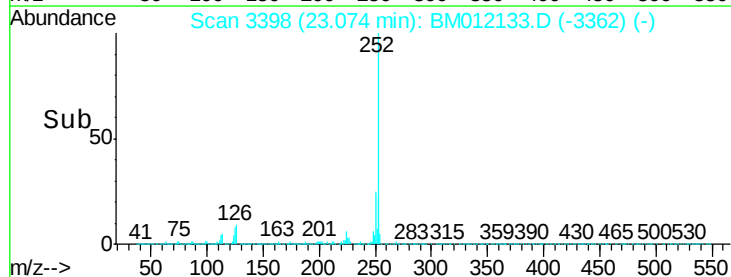
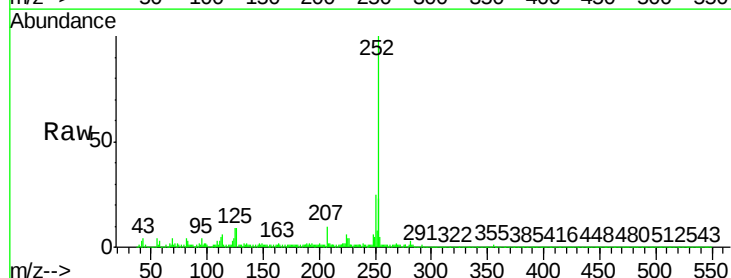
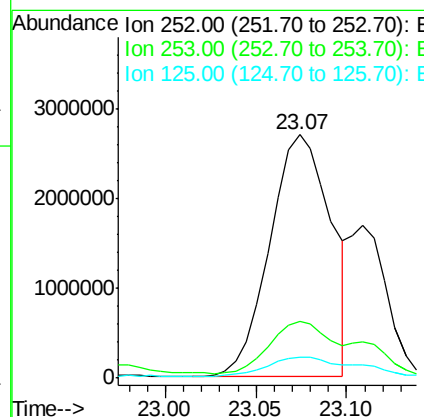
Manual Integrations
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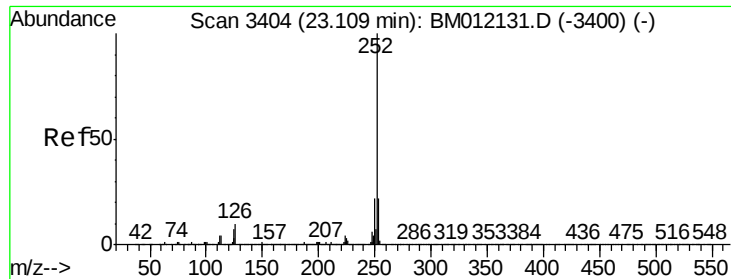
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#85
Benzo(b)fluoranthene
Concen: 85.73 ng/ul
RT: 23.07 min Scan# 3398
Delta R.T. 0.01 min
Lab File: BM012133.D
Acq: 13 Oct 2017 12:42

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.9	26.9
125	8.8	3.6	5.4





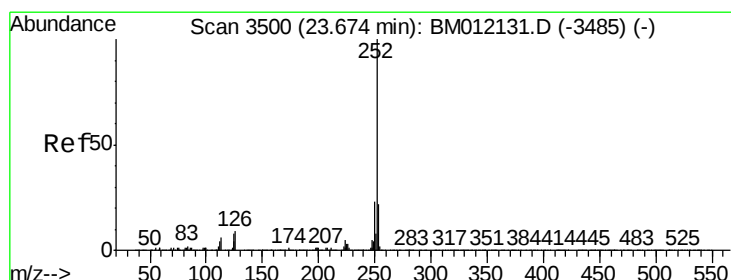
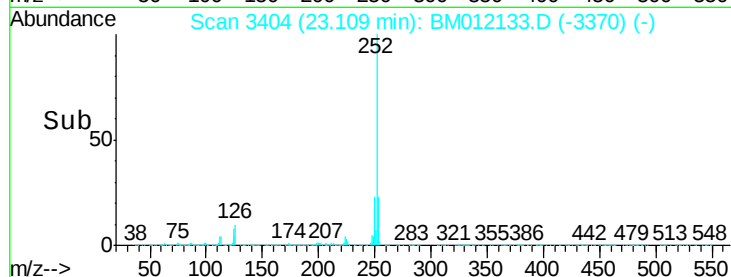
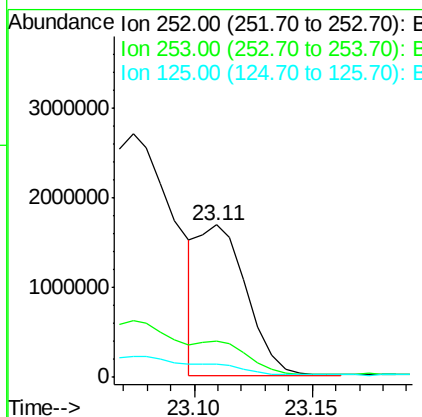
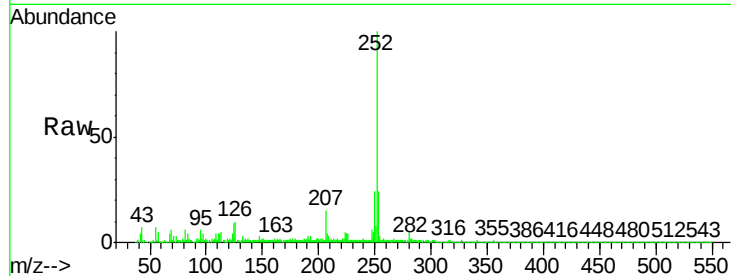
#86
Benzo(k)fluoranthene
Concen: 33.87 ng/ul m
RT: 23.11 min Scan# 3404
Delta R.T. 0.00 min
Lab File: BM012133.D
Acq: 13 Oct 2017 12:42

Instrument :
BNA_M
ClientSampleId :
B-53(1-3)-092817

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.8	17.1	25.7
125	8.9	3.4	5.2

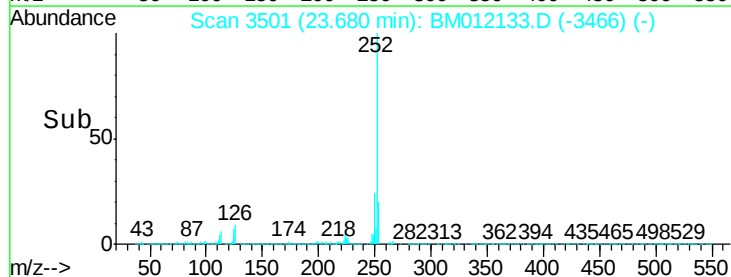
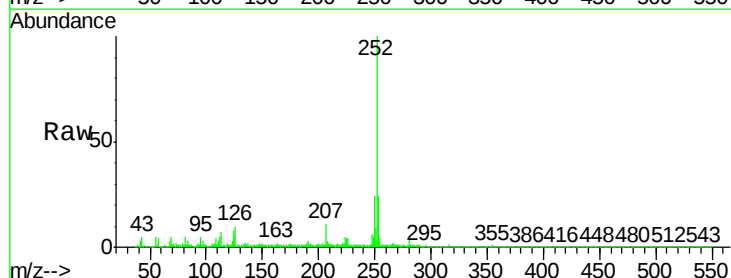
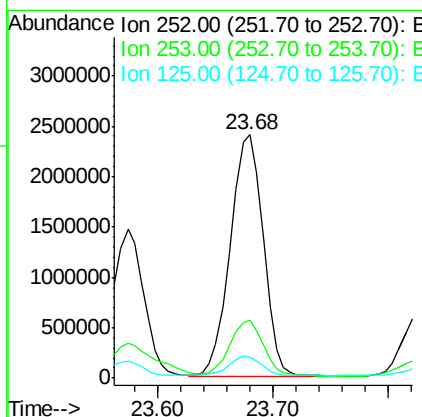
Manual Integrations
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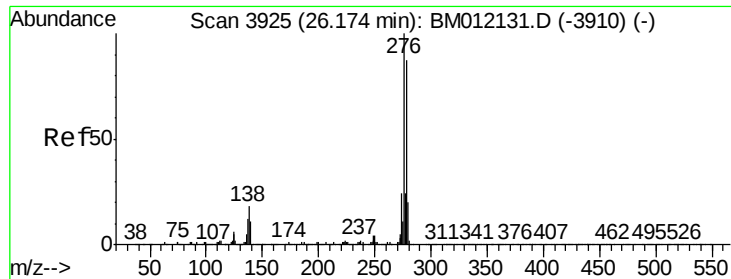
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#88
Benzo(a)pyrene
Concen: 68.03 ng/ul
RT: 23.68 min Scan# 3501
Delta R.T. 0.01 min
Lab File: BM012133.D
Acq: 13 Oct 2017 12:42

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.8	18.2	27.2
125	8.5	4.0	6.0





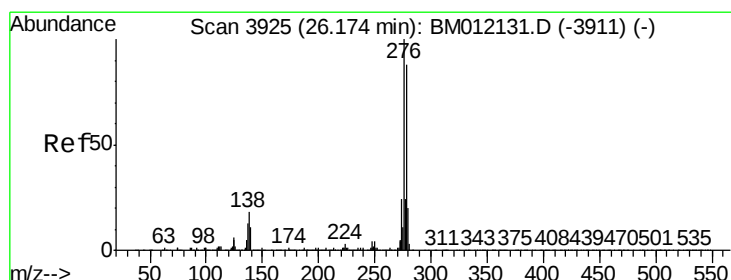
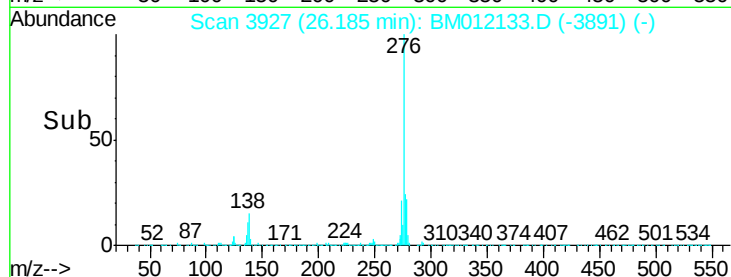
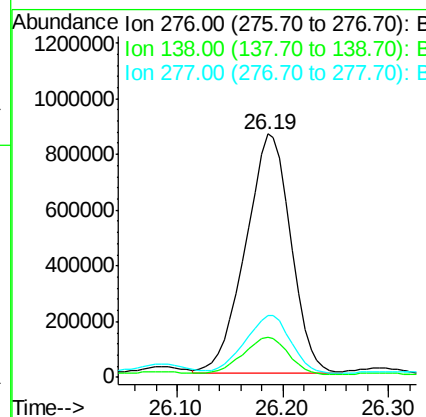
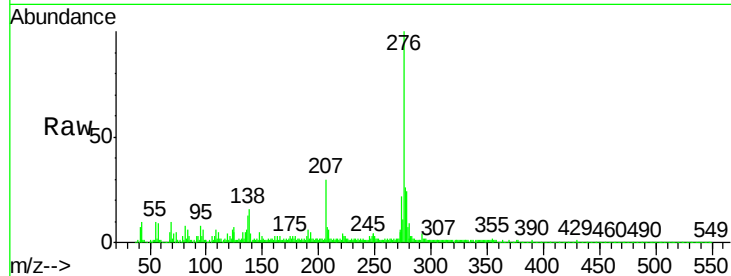
#89
Indeno(1,2,3-cd)pyrene
Concen: 34.55 ng/ul
RT: 26.19 min Scan# 3927
Delta R.T. 0.01 min
Lab File: BM012133.D
Acq: 13 Oct 2017 12:42

Instrument :
BNA_M
ClientSampleId :
B-53(1-3)-092817

Tot Ion	Ratio	Lower	Upper
276	100		
138	16.3	9.3	13.9#
277	25.6	19.9	29.9

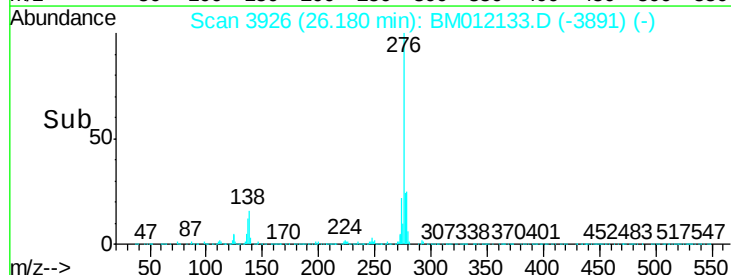
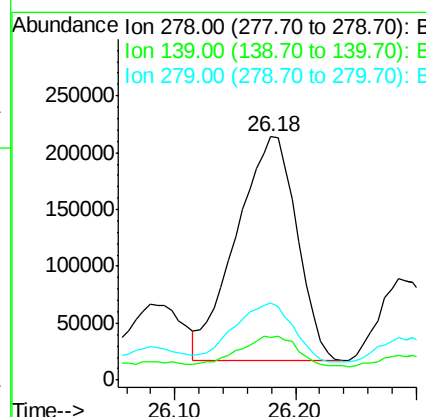
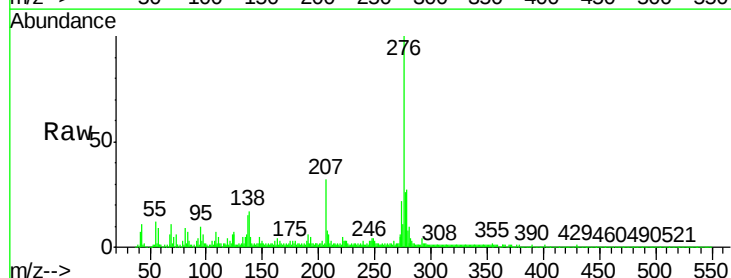
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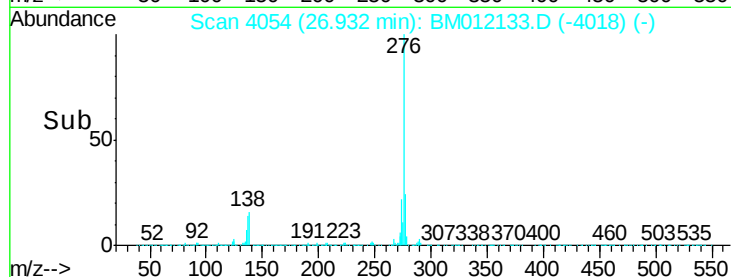
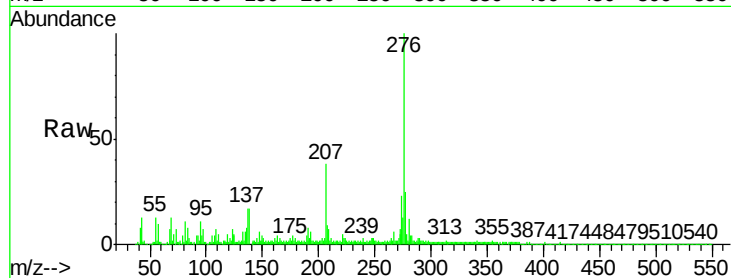
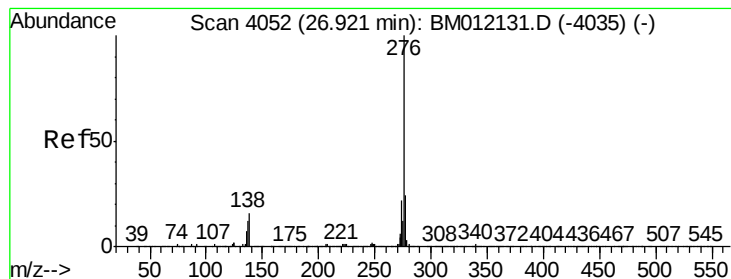
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#90
Dibenzo(a,h)anthracene
Concen: 11.07 ng/ul
RT: 26.18 min Scan# 3926
Delta R.T. 0.01 min
Lab File: BM012133.D
Acq: 13 Oct 2017 12:42

Tgt Ion	Ratio	Lower	Upper
278	100		
139	17.5	5.8	8.8#
279	31.7	18.6	27.8#





#91

Benzo(a,h,i)perylene

Concen: 37.28 ng/ul

RT: 26.93 min Scan# 4054

Delta R.T. 0.01 min

Lab File: BM012133.D

Acq: 13 Oct 2017 12:42

Tot Ion	Ratio	Lower	Upper
276	100		
138	16.5	8.5	12.7#
277	25.3	18.6	28.0

Instrument :

BNA_M

ClientSampleId :

B-53(1-3)-092817

Manual Integrations
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