

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM101719\
 Data File : BM023261.D
 Acq On : 18 Oct 2019 17:13
 Operator : JU
 Sample : K5345-05 30X
 Misc :
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 ETOJ8

Manual Integrations
 APPROVED

mohammad
 10/20/2019 8:07:30 PM

Quant Time: Oct 19 21:09:07 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM101419MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Sat Oct 19 01:30:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.66	152	397345	20.00	ng/ul	0.00
18) Naphthalene-d8	10.44	136	1532462	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.30	164	934227	20.00	ng/ul	0.00
62) Phenanthrene-d10	17.05	188	1846556	20.00	ng/ul	0.00
78) Chrysene-d12	21.24	240	1978609	20.00	ng/ul	0.00
86) Perylene-d12	23.45	264	2387850	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.18	96	691	0.08	ng/uL	0.01
5) Phenol-d5	6.83	99	19096	0.55	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.00	67	12317	0.63	ng/ul	0.00
9) 2-Chlorophenol-d4	7.19	132	15277	0.58	ng/ul	0.00
13) 4-Methylphenol-d8	8.36	113	14801	0.53	ng/ul	0.00
19) Nitrobenzene-d5	8.80	128	7823	0.75	ng/ul	0.00
22) 2-Nitrophenol-d4	9.53	143	7157	0.72	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.06	165	15451	0.62	ng/ul	0.00
29) 4-Chloroaniline-d4	10.57	131	23984	0.79	ng/ul	0.00
44) Dimethylphthalate-d6	13.72	166	52800	0.74	ng/ul	0.00
47) Acenaphthylene-d8	13.99	160	56503	0.67	ng/ul	0.00
52) 4-Nitrophenol-d4	14.51	143	8113	0.70	ng/ul	0.00
58) Fluorene-d10	15.30	176	46843	0.77	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	15.42	200	1255	0.17	ng/ul	0.00
71) Anthracene-d10	17.15	188	74105	0.83	ng/ul	0.00
79) Pyrene-d10	19.44	212	76775	0.80	ng/ul	0.00
90) Benzo(a)pyrene-d12	23.31	264	88747	0.73	ng/ul	0.00

Target Compounds

					Ovalue	
28) Naphthalene	10.49	128	11426620	144.261	ng/ul	98
34) 2-Methylnaphthalene	12.11	142	3035541	51.502	ng/ul	99
41) 1,1'-Biphenyl	13.13	154	964829	13.573	ng/ul	98
48) Acenaphthylene	14.02	152	488891	5.694	ng/ul#	96
50) Acenaphthene	14.37	153	7151420	119.623	ng/ul	99
54) Dibenzofuran	14.70	168	7777578	91.642	ng/ul	99
59) Fluorene	15.36	166	7951368	114.192	ng/ul	99
70) Phenanthrene	17.09	178	21169813m	204.282	ng/ul	
72) Anthracene	17.19	178	4460617	41.654	ng/ul	99
75) Carbazole	17.45	167	2226838	23.277	ng/ul	100
77) Fluoranthene	19.11	202	17735632m	143.904	ng/ul	
80) Pyrene	19.47	202	16255006	131.140	ng/ul#	91
83) Benzo(a)anthracene	21.23	228	6658309	49.665	ng/ul	97
85) Chrysene	21.28	228	4842308	38.899	ng/ul	97
88) Benzo(b)fluoranthene	22.80	252	5073513	35.044	ng/ul	99
89) Benzo(k)fluoranthene	22.83	252	1817281m	13.072	ng/ul	
91) Benzo(a)pyrene	23.36	252	3175001	22.858	ng/ul	97
92) Indeno(1,2,3-cd)pyrene	25.66	276	1477017	8.939	ng/ul	97
93) Dibenzo(a,h)anthracene	25.67	278	441696	3.197	ng/ul#	90
94) Benzo(g,h,i)perylene	26.33	276	1232694	9.061	ng/ul	98

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

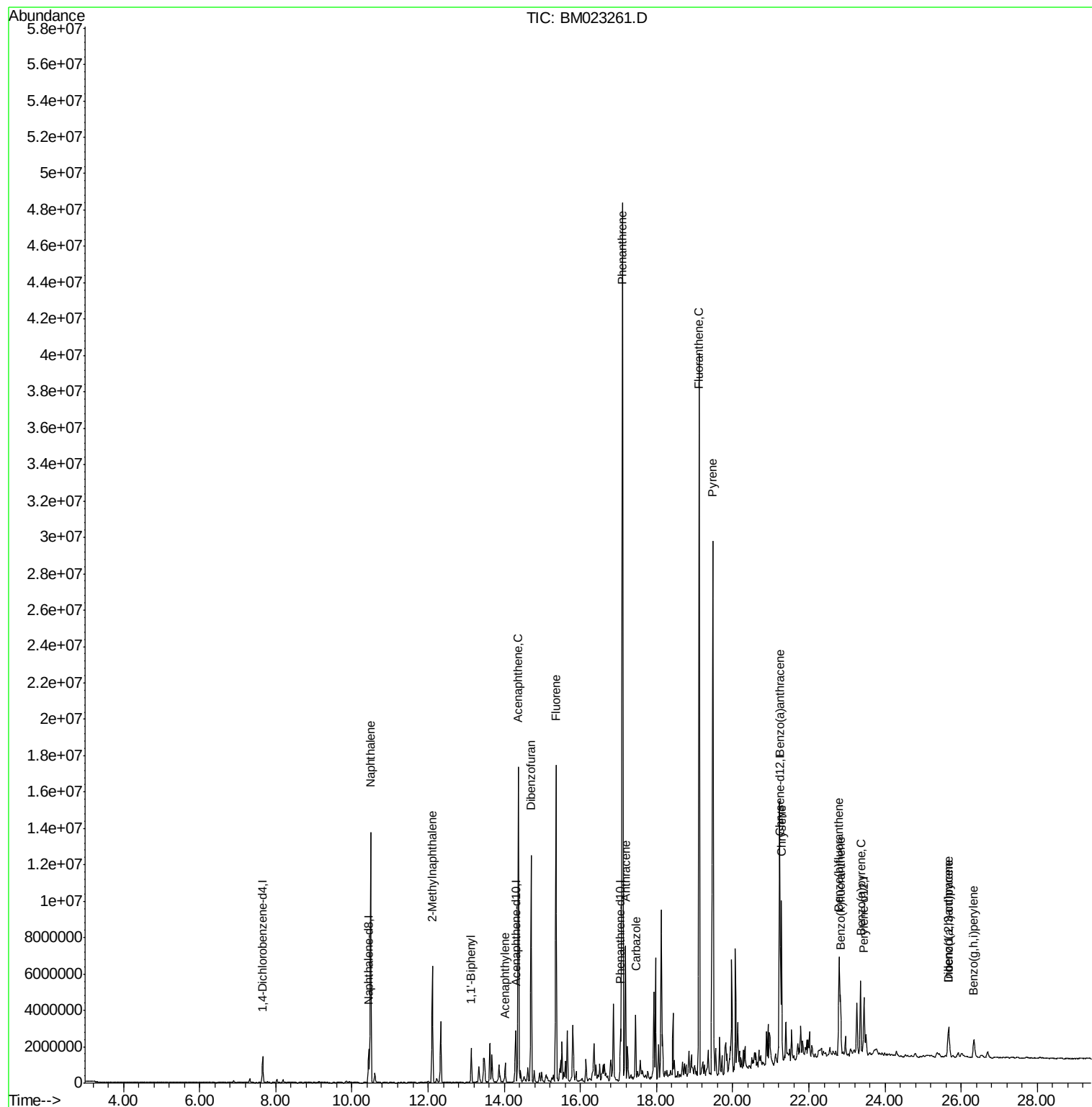
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM101719\
Data File : BM023261.D
Acq On : 18 Oct 2019 17:13
Operator : JU
Sample : K5345-05 30X
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ALS Vial : 40 Sample Multiplier: 1

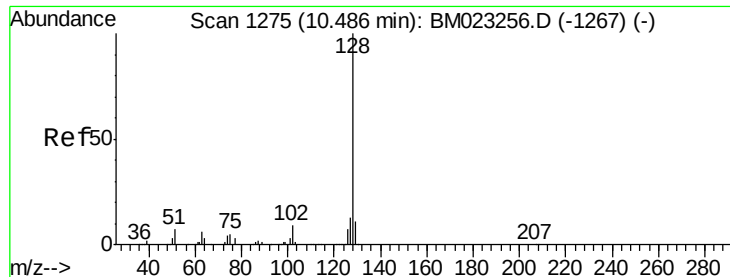
Instrument :
BNA_M
ClientSampleId :
ETOJ8

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM101419MA.M
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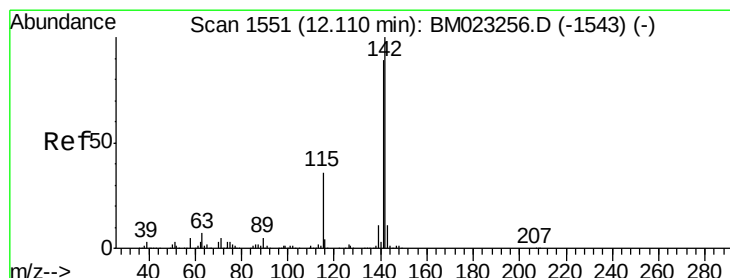
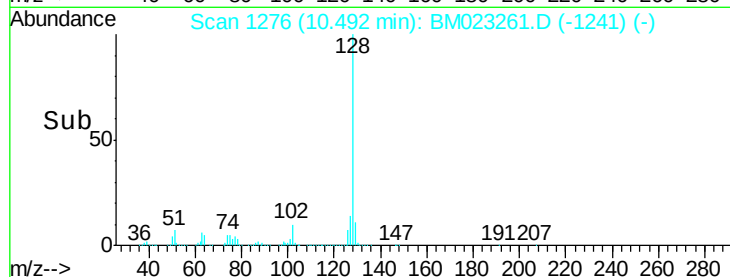
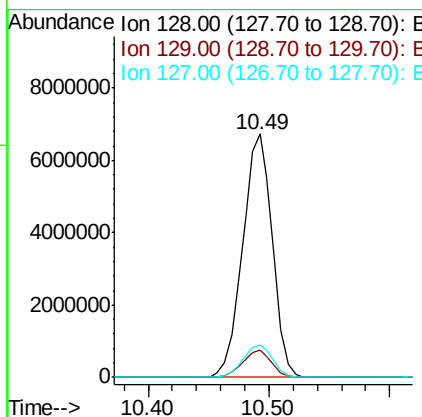
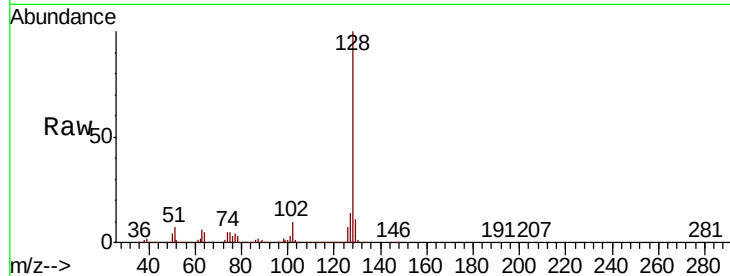
#28
Naphthalene
Concen: 144.261 ng/ul
RT: 10.49 min Scan# 1276
Delta R.T. 0.01 min
Lab File: BM023261.D
Acq: 18 Oct 2019 17:13

Instrument :
BNA_M
ClientSampleId :
ETOJ8

Tot Ion:128 Resp:11426620
Ion Ratio Lower Upper
128 100
129 11.1 8.3 12.5
127 13.5 10.2 15.4

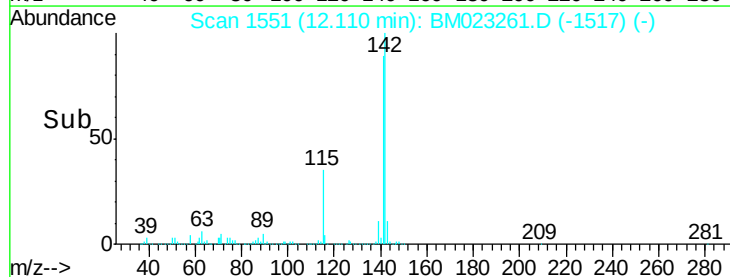
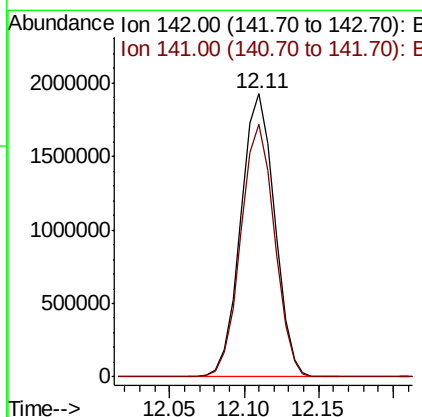
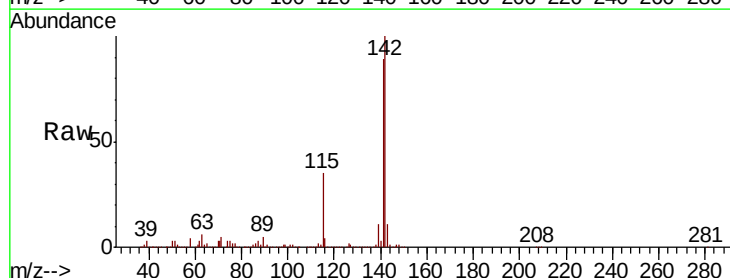
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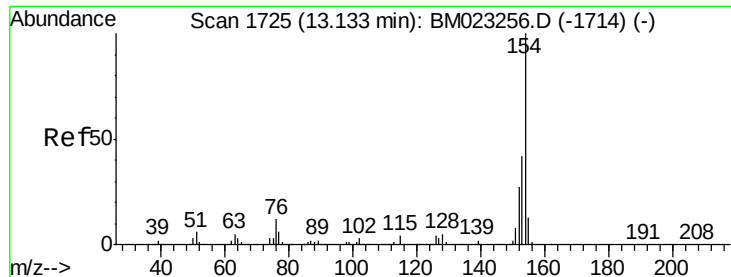
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#34
2-Methylnaphthalene
Concen: 51.502 ng/ul
RT: 12.11 min Scan# 1551
Delta R.T. 0.00 min
Lab File: BM023261.D
Acq: 18 Oct 2019 17:13

Tgt Ion:142 Resp: 3035541
Ion Ratio Lower Upper
142 100
141 89.3 72.1 108.1





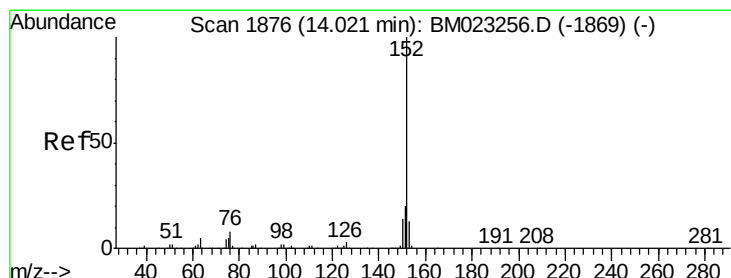
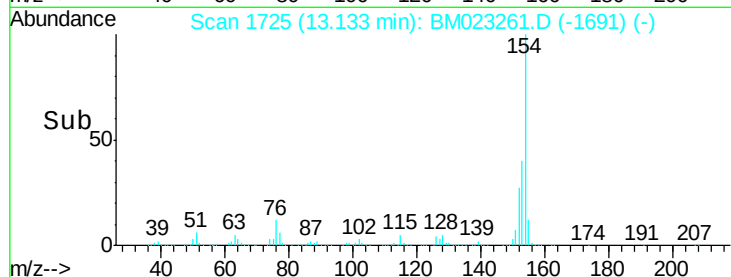
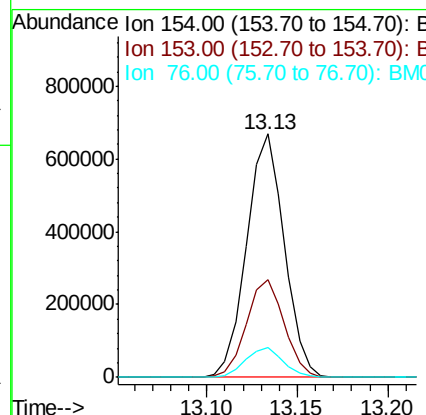
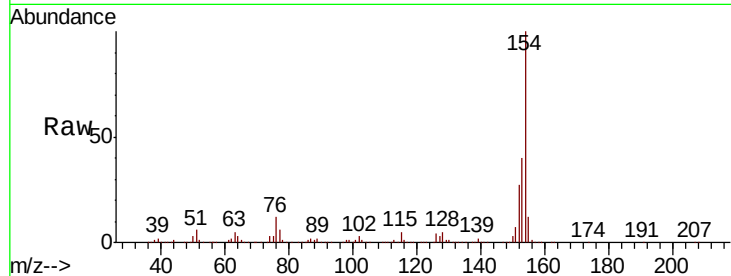
#41
 1,1'-Biphenyl
 Concen: 13.573 ng/ul
 RT: 13.13 min Scan# 1725
 Delta R.T. 0.00 min
 Lab File: BM023261.D
 Acq: 18 Oct 2019 17:13

Instrument :
 BNA_M
 ClientSampleId :
 ETOJ8

Tot Ion:	154	Resp:	964829
Ion Ratio	Lower	Upper	
154	100		
153	40.3	33.1	49.7
76	12.1	10.6	15.8

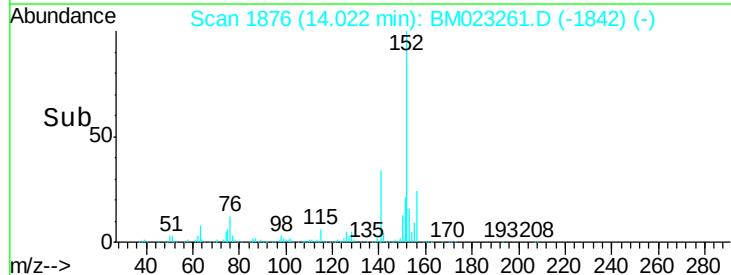
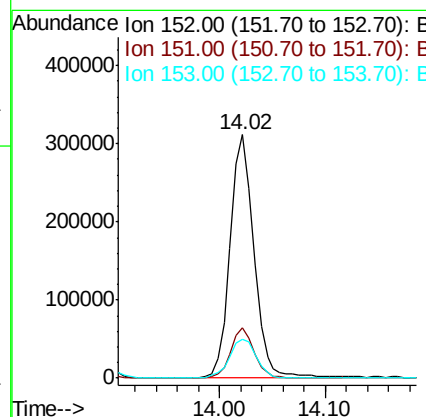
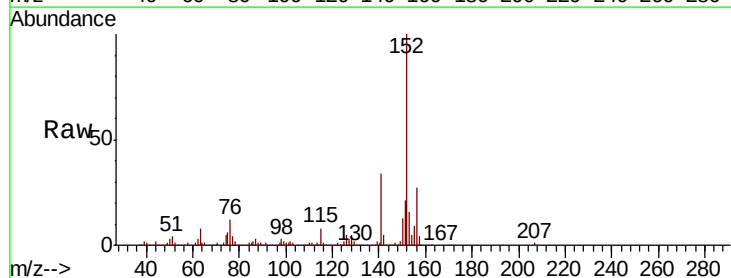
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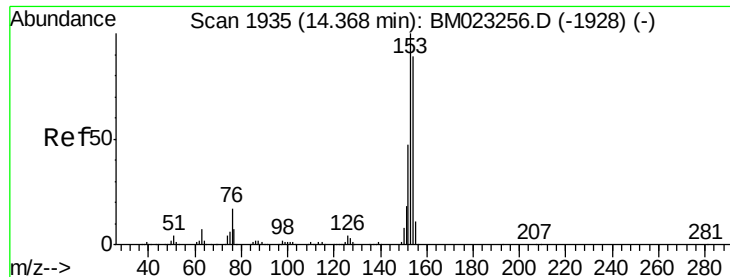
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#48
 Acenaphthylene
 Concen: 5.694 ng/ul
 RT: 14.02 min Scan# 1876
 Delta R.T. 0.00 min
 Lab File: BM023261.D
 Acq: 18 Oct 2019 17:13

Tgt Ion:	152	Resp:	488891
Ion Ratio	Lower	Upper	
152	100		
151	20.6	15.8	23.6
153	16.1	10.3	15.5#





#50

Acenaphthene

Concen: 119.623 ng/ul

RT: 14.37 min Scan# 1935

Delta R.T. 0.00 min

Lab File: BM023261.D

Acq: 18 Oct 2019 17:13

Instrument :

BNA_M

ClientSampleId :

ETOJ8

Tot Ion:153 Resp: 7151420

Ion Ratio Lower Upper

153 100

152 47.3 38.0 57.0

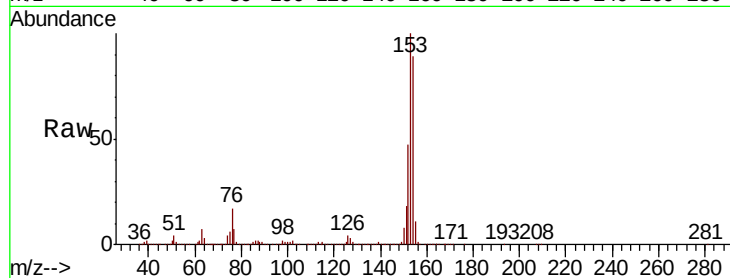
154 88.6 70.4 105.6

Manual Integrations

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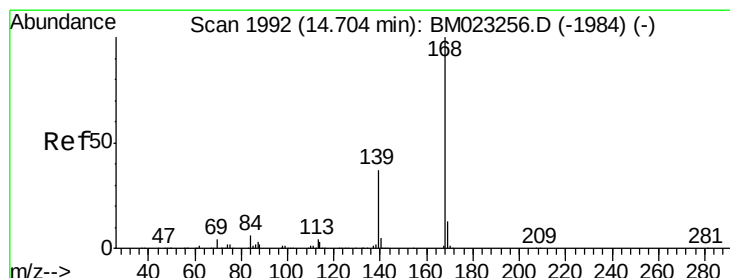
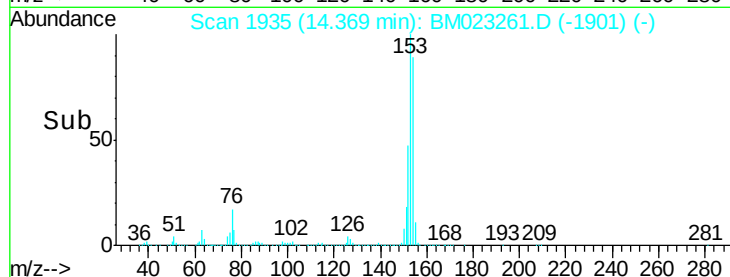
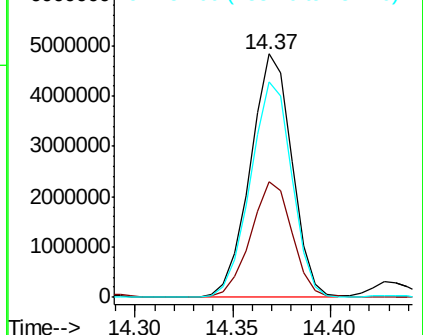
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Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E



#54

Dibenzofuran

Concen: 91.642 ng/ul

RT: 14.70 min Scan# 1992

Delta R.T. 0.00 min

Lab File: BM023261.D

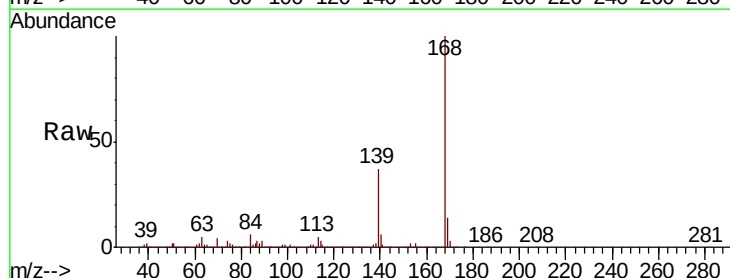
Acq: 18 Oct 2019 17:13

Tgt Ion:168 Resp: 7777578

Ion Ratio Lower Upper

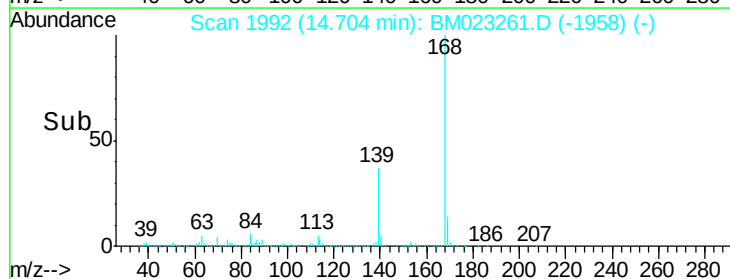
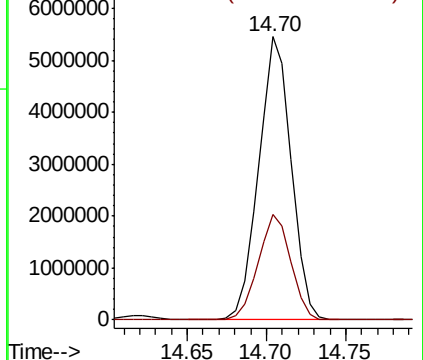
168 100

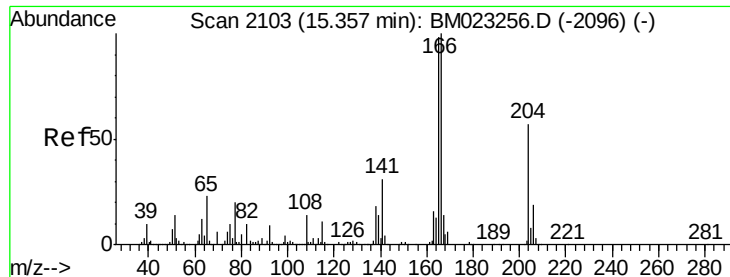
139 37.1 30.1 45.1



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E





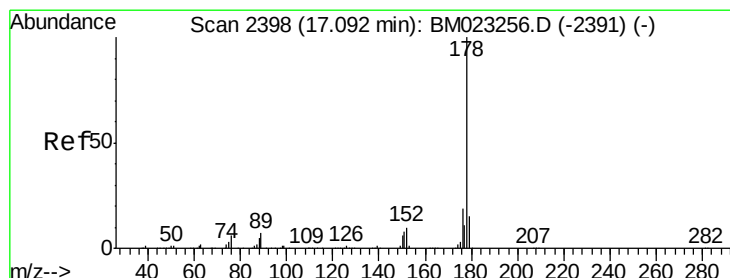
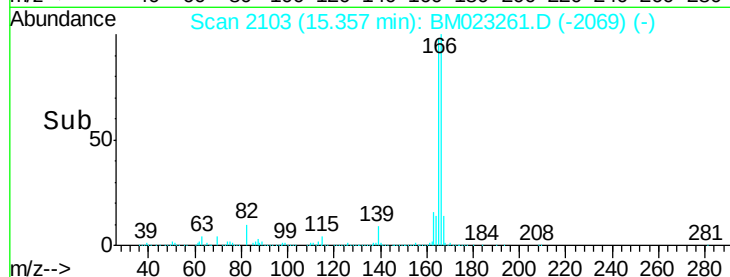
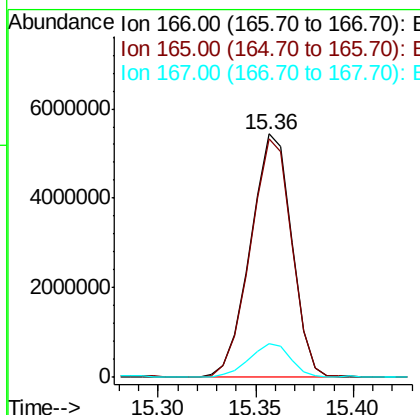
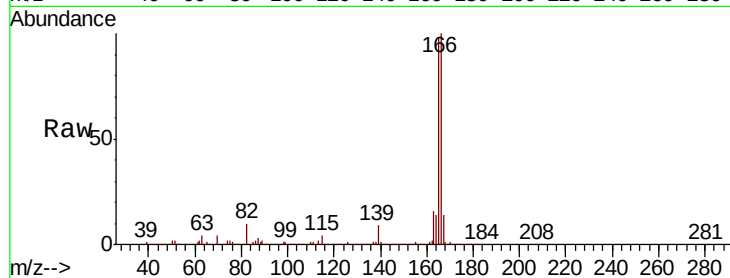
#59
Fluorene
Concen: 114.192 ng/ul
RT: 15.36 min Scan# 2103
Delta R.T. 0.00 min
Lab File: BM023261.D
Acq: 18 Oct 2019 17:13

Instrument :
BNA_M
ClientSampleId :
ETOJ8

Tot Ion	Ratio	Lower	Upper
166	100		
165	97.9	77.4	116.0
167	14.0	10.8	16.2

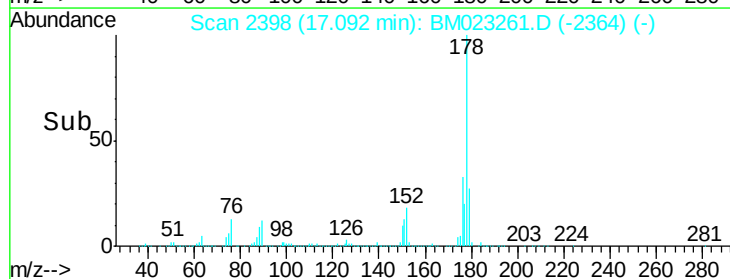
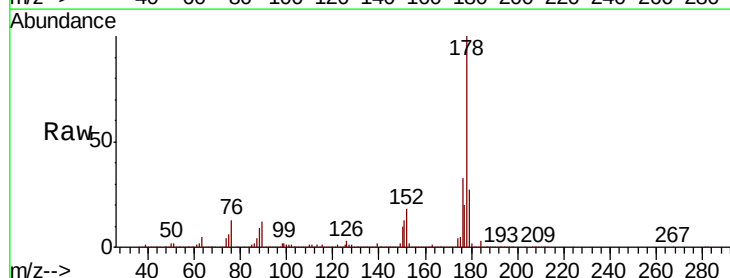
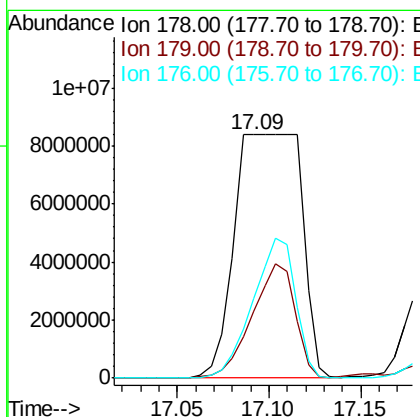
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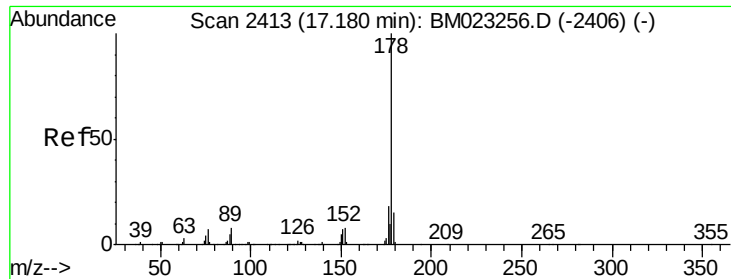
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#70
Phenanthrene
Concen: 204.282 ng/ul m
RT: 17.09 min Scan# 2398
Delta R.T. 0.00 min
Lab File: BM023261.D
Acq: 18 Oct 2019 17:13

Tgt Ion	Ratio	Lower	Upper
178	100		
179	27.5	12.3	18.5#
176	32.9	15.5	23.3#





#72

Anthracene

Concen: 41.654 ng/ul

RT: 17.19 min Scan# 2414

Delta R.T. 0.01 min

Lab File: BM023261.D

Acq: 18 Oct 2019 17:13

Instrument :

BNA_M

ClientSampleId :

ETOJ8

Tot Ion:178 Resp: 4460617

Ion Ratio Lower Upper

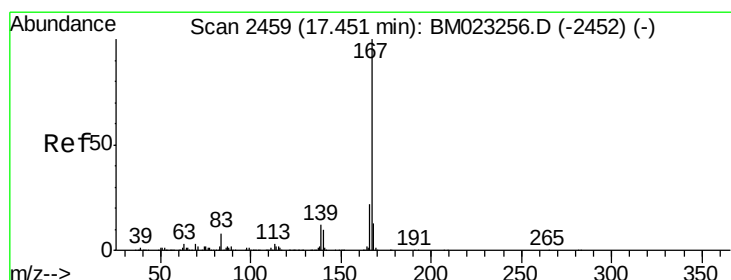
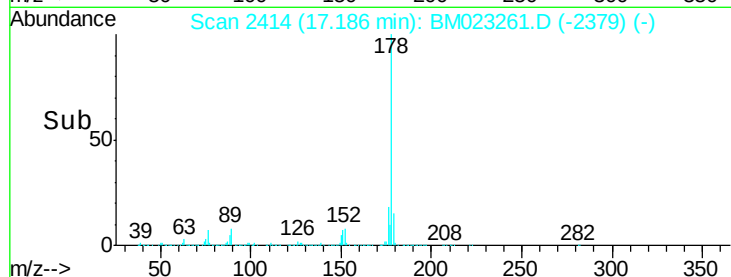
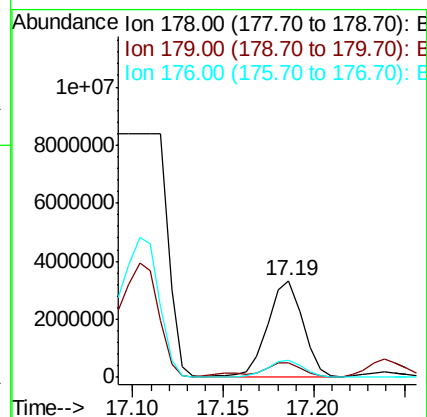
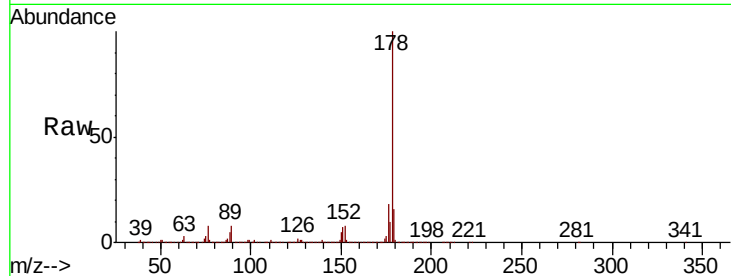
178 100

179 15.5 12.3 18.5

176 18.2 15.0 22.4

Manual Integrations
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#75

Carbazole

Concen: 23.277 ng/ul

RT: 17.45 min Scan# 2459

Delta R.T. 0.00 min

Lab File: BM023261.D

Acq: 18 Oct 2019 17:13

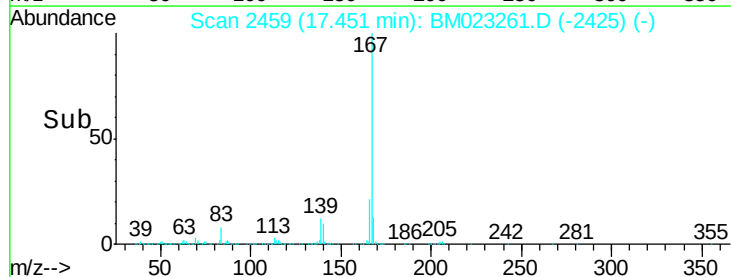
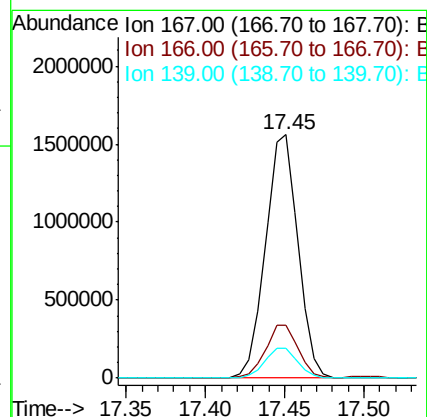
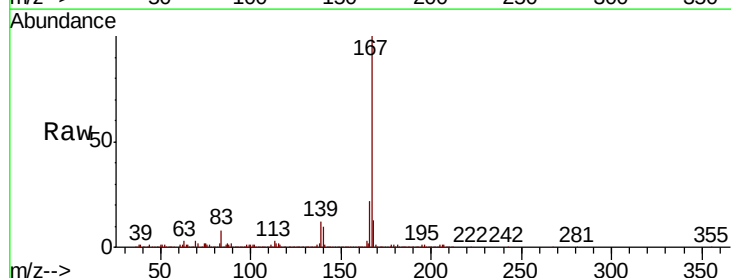
Tgt Ion:167 Resp: 2226838

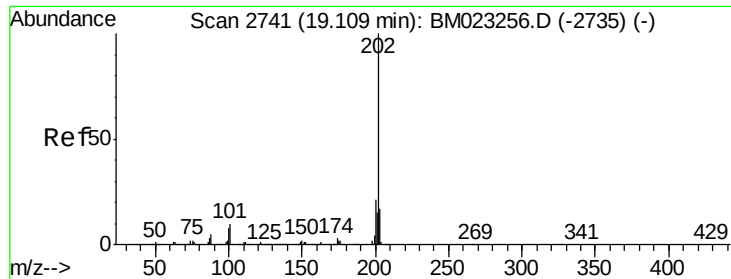
Ion Ratio Lower Upper

167 100

166 21.5 17.4 26.0

139 12.4 10.2 15.2





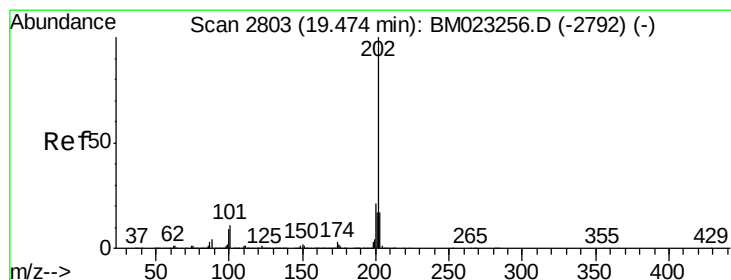
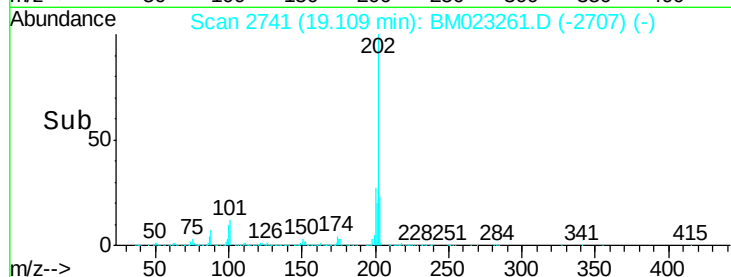
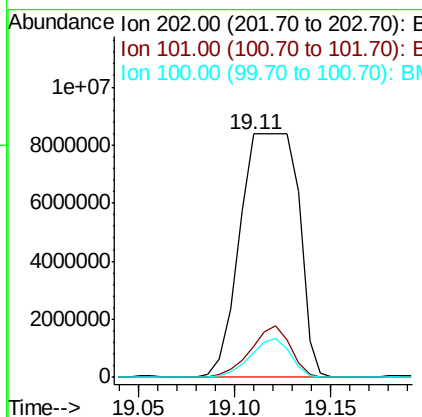
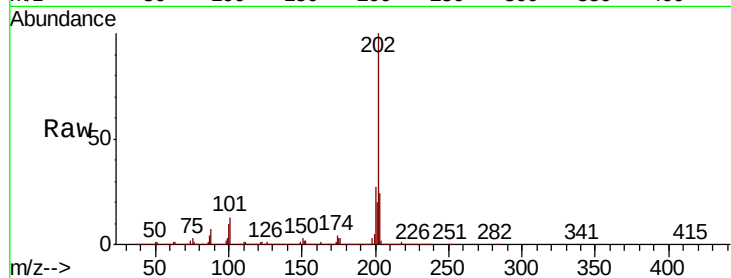
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 Fluoranthene
 Concen: 143.904 ng/ul m
 RT: 19.11 min Scan# 2741
 Delta R.T. 0.00 min
 Lab File: BM023261.D
 Acq: 18 Oct 2019 17:13

Instrument :
 BNA_M
 ClientSampleId :
 ETOJ8

Tot Ion:202 Resp:17735632
 Ion Ratio Lower Upper
 202 100
 101 12.8 7.8 11.8#
 100 10.0 6.1 9.1#

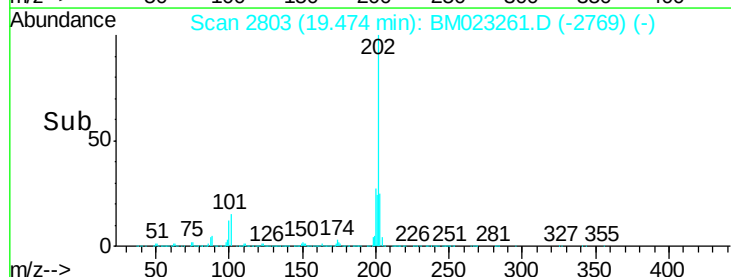
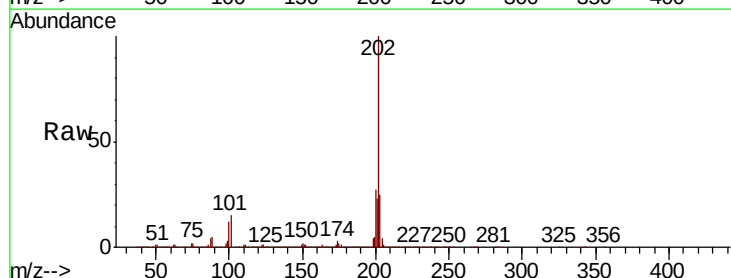
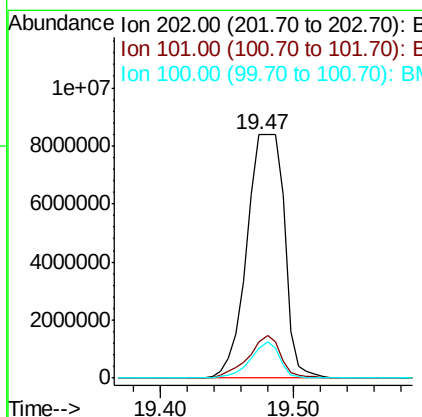
Manual Integrations
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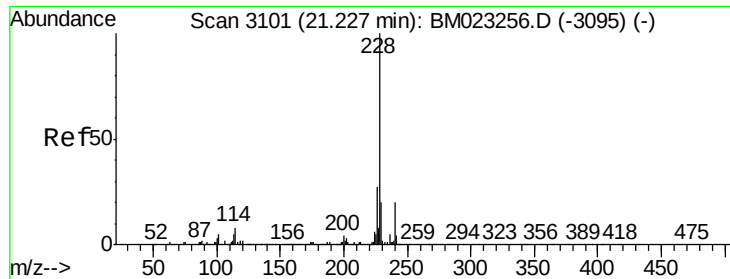
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#80
 Pyrene
 Concen: 131.140 ng/ul
 RT: 19.47 min Scan# 2803
 Delta R.T. 0.00 min
 Lab File: BM023261.D
 Acq: 18 Oct 2019 17:13

Tgt Ion:202 Resp:16255006
 Ion Ratio Lower Upper
 202 100
 101 15.0 9.1 13.7#
 100 12.3 7.5 11.3#





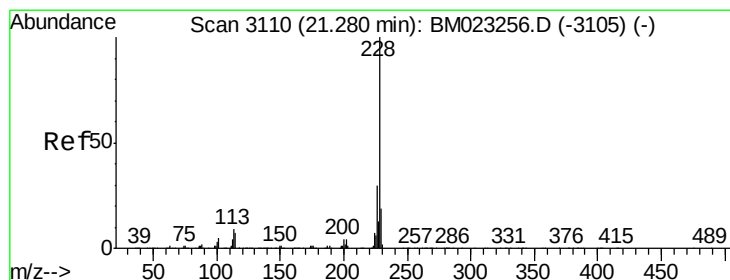
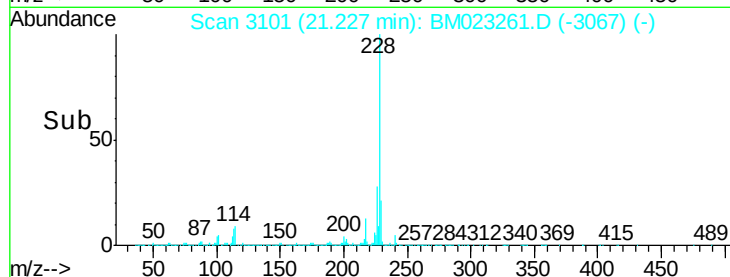
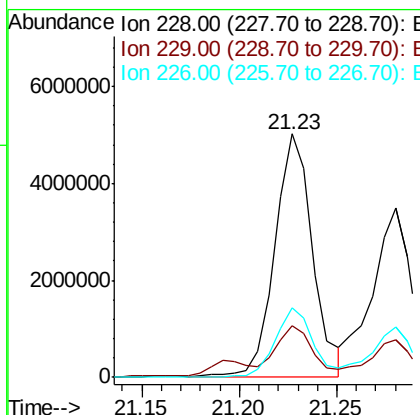
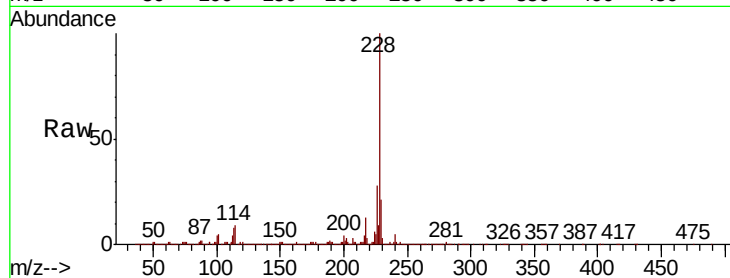
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Benzo(a)anthracene
Concen: 49.665 ng/ul
RT: 21.23 min Scan# 3101
Delta R.T. 0.00 min
Lab File: BM023261.D
Acq: 18 Oct 2019 17:13

Instrument :
BNA_M
ClientSampleId :
ETOJ8

Tot Ion:228 Resp: 6658309
Ion Ratio Lower Upper
228 100
229 21.1 15.7 23.5
226 28.4 21.6 32.4

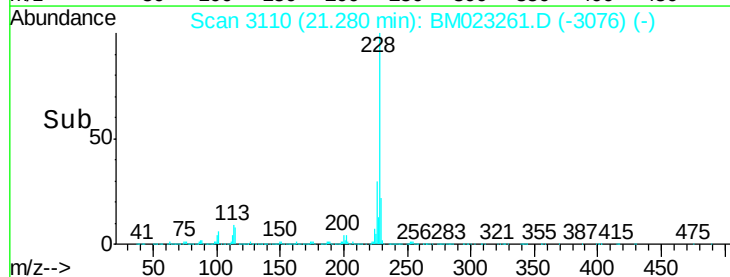
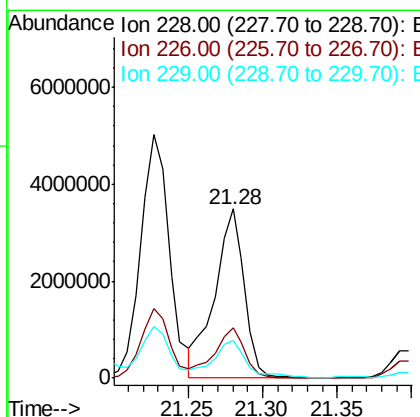
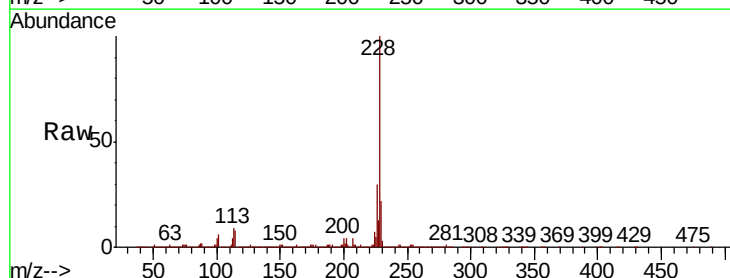
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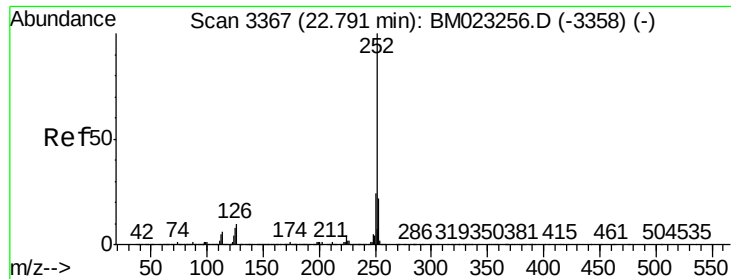
mohammad
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#85
Chrysene
Concen: 38.899 ng/ul
RT: 21.28 min Scan# 3110
Delta R.T. 0.00 min
Lab File: BM023261.D
Acq: 18 Oct 2019 17:13

Tgt Ion:228 Resp: 4842308
Ion Ratio Lower Upper
228 100
226 29.8 23.8 35.6
229 22.4 15.5 23.3





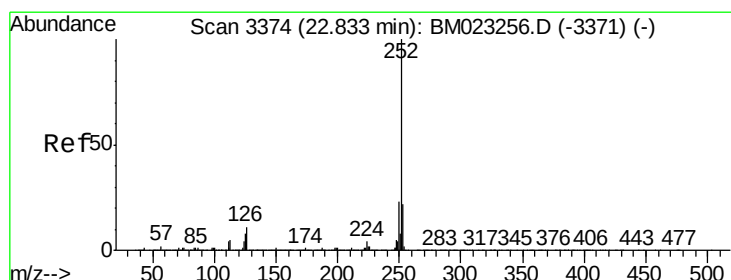
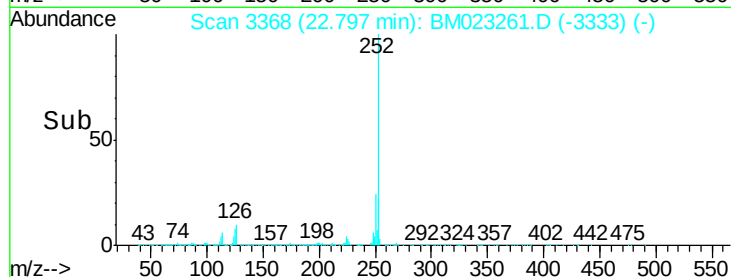
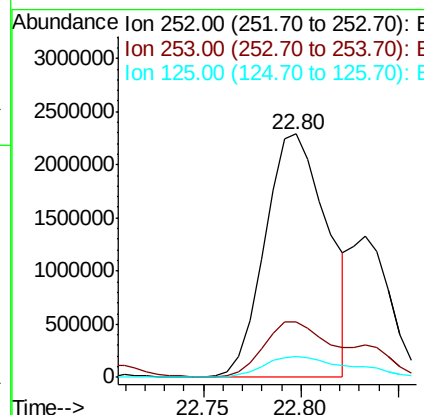
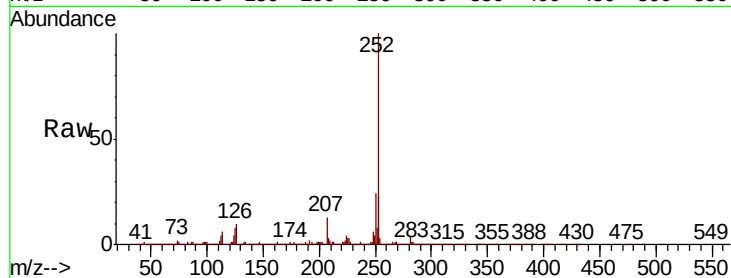
#88
Benzo(b)fluoranthene
Concen: 35.044 ng/ul
RT: 22.80 min Scan# 3368
Delta R.T. 0.01 min
Lab File: BM023261.D
Acq: 18 Oct 2019 17:13

Instrument :
BNA_M
ClientSampleId :
ETOJ8

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.6	26.4
125	8.4	6.4	9.6

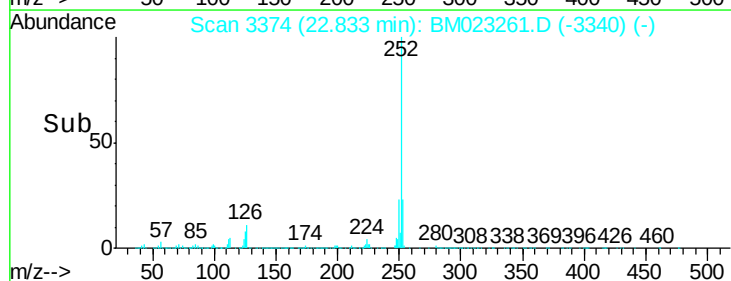
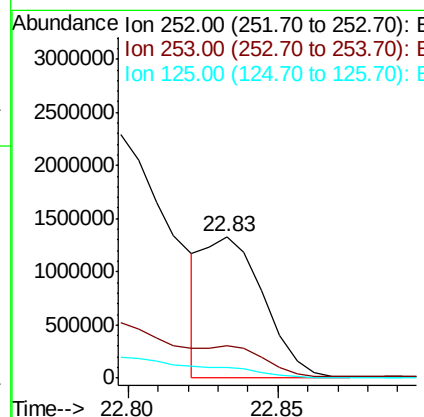
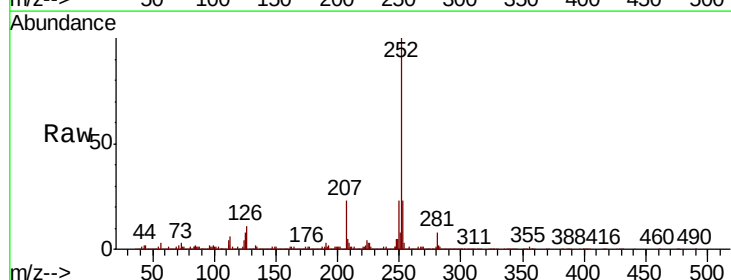
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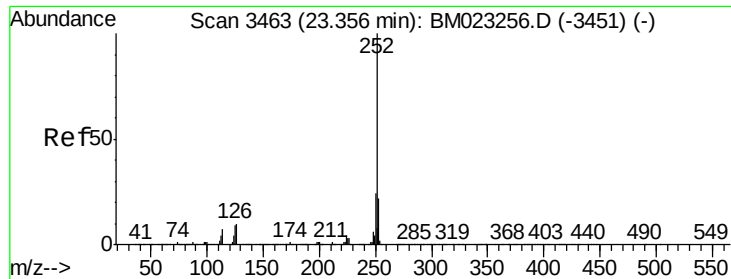
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#89
Benzo(k)fluoranthene
Concen: 13.072 ng/ul m
RT: 22.83 min Scan# 3374
Delta R.T. 0.00 min
Lab File: BM023261.D
Acq: 18 Oct 2019 17:13

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.4	26.0
125	8.0	6.5	9.7





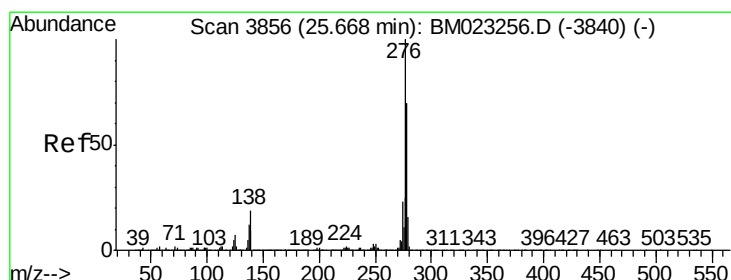
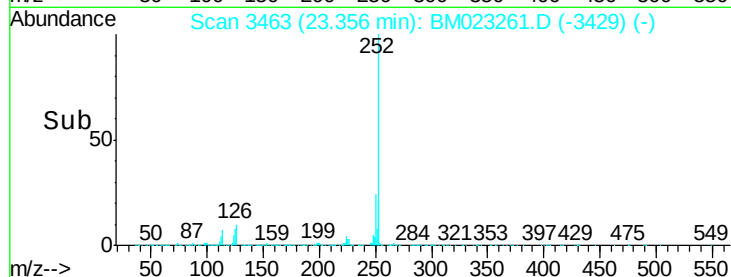
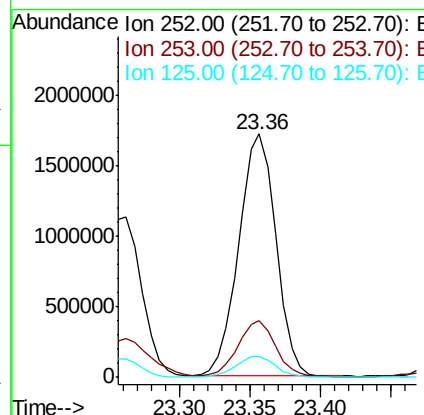
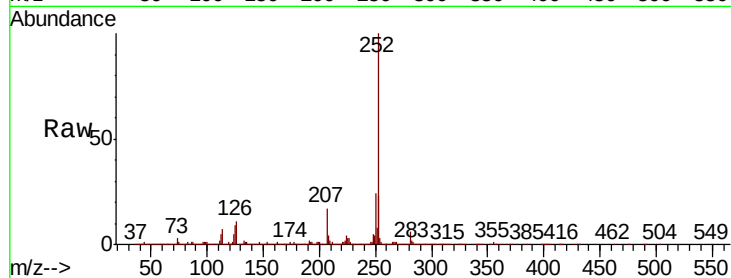
#91
Benzo(a)pyrene
Concen: 22.858 ng/ul
RT: 23.36 min Scan# 3463
Delta R.T. 0.00 min
Lab File: BM023261.D
Acq: 18 Oct 2019 17:13

Instrument :
BNA_M
ClientSampleId :
ETOJ8

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.2	25.8
125	8.7	7.4	11.0

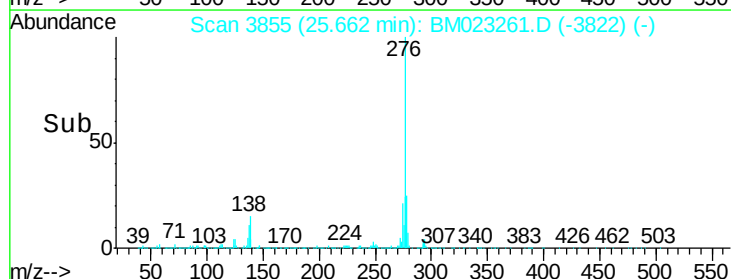
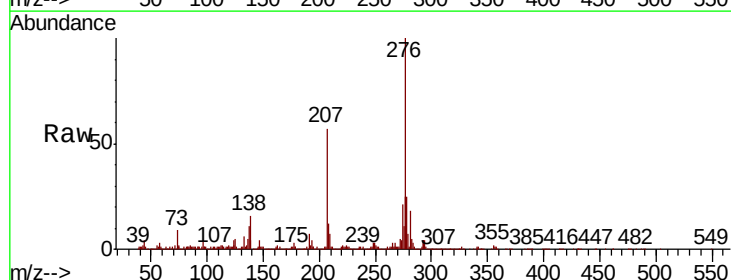
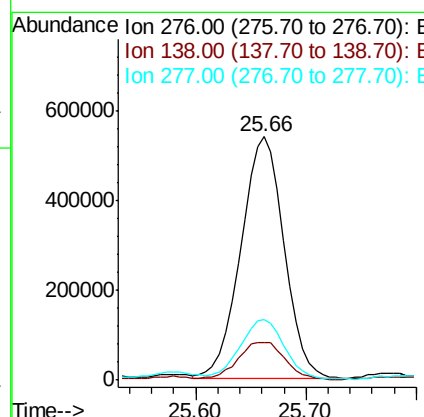
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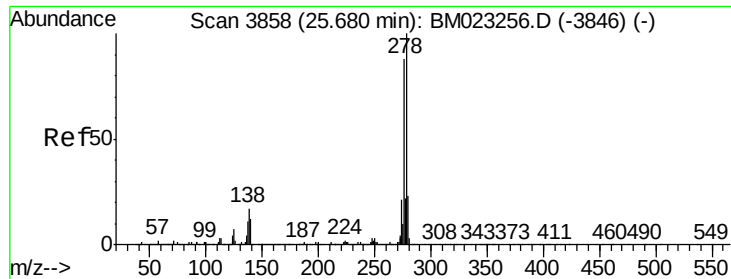
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#92
Indeno(1,2,3-cd)pyrene
Concen: 8.939 ng/ul
RT: 25.66 min Scan# 3855
Delta R.T. -0.01 min
Lab File: BM023261.D
Acq: 18 Oct 2019 17:13

Tgt Ion	Ratio	Lower	Upper
276	100		
138	15.6	14.9	22.3
277	24.8	19.8	29.8





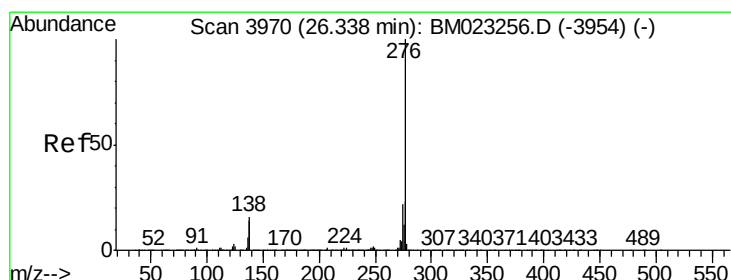
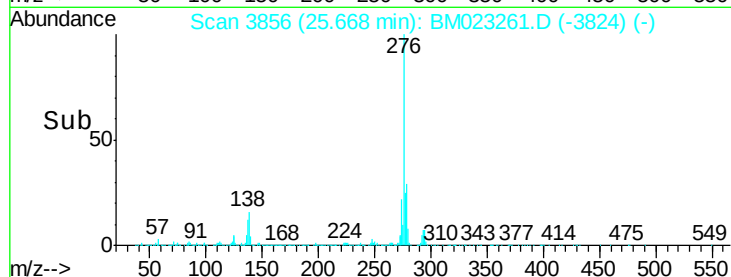
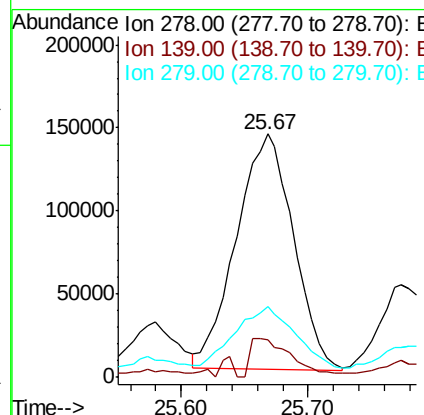
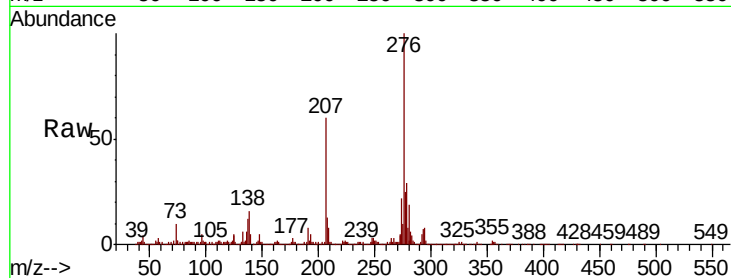
#93
Dibenzo(a,h)anthracene
Concen: 3.197 ng/ul
RT: 25.67 min Scan# 3856
Delta R.T. -0.01 min
Lab File: BM023261.D
Acq: 18 Oct 2019 17:13

Instrument :
BNA_M
ClientSampleId :
ETOJ8

Tot Ion	Ratio	Lower	Upper
278	100		
139	15.6	10.0	15.0#
279	29.3	19.4	29.0#

Manual Integrations
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#94
Benzo(g,h,i)perylene
Concen: 9.061 ng/ul
RT: 26.33 min Scan# 3969
Delta R.T. -0.01 min
Lab File: BM023261.D
Acq: 18 Oct 2019 17:13

Tgt Ion	Ratio	Lower	Upper
276	100		
138	16.3	14.4	21.6
277	24.3	19.4	29.2

