

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM061019\
 Data File : BM020856.D
 Acq On : 11 Jun 2019 03:49
 Operator : HP/JU
 Sample : K3017-19MSD
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 A51F0MSD

Manual Integrations
 APPROVED

mohammad
 6/12/2019 8:29:18 AM

Quant Time: Jun 14 04:00:30 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM060619MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Sun Jun 09 01:02:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.81	152	375227	20.00	ng/ul	0.00
18) Naphthalene-d8	10.60	136	1453902	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.44	164	806769	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.19	188	1762285	20.00	ng/ul	0.00
77) Chrysene-d12	21.37	240	1689278	20.00	ng/ul	0.00
85) Perylene-d12	23.66	264	2005461	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.30	96	27643	3.51	ng/uL	0.00
5) Phenol-d5	6.97	99	521883	18.18	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.15	67	331785	19.27	ng/ul	0.00
9) 2-Chlorophenol-d4	7.34	132	467429	20.44	ng/ul	0.00
13) 4-Methylphenol-d8	8.51	113	434056	18.79	ng/ul	0.00
19) Nitrobenzene-d5	8.97	128	227995	22.98	ng/ul	0.00
22) 2-Nitrophenol-d4	9.69	143	239443	23.44	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.22	165	477319	22.40	ng/ul	0.00
29) 4-Chloroaniline-d4	10.75	131	194417	7.58	ng/ul	0.00
43) Dimethylphthalate-d6	13.86	166	1427140	23.91	ng/ul	0.00
46) Acenaphthylene-d8	14.14	160	1754761	23.19	ng/ul	0.00
51) 4-Nitrophenol-d4	14.65	143	120726	11.79	ng/ul	0.00
57) Fluorene-d10	15.44	176	1206399	23.79	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.56	200	40558	4.50	ng/ul	0.00
70) Anthracene-d10	17.29	188	1818704	23.63	ng/ul	0.00
78) Pyrene-d10	19.59	212	1899237	23.26	ng/ul	0.00
89) Benzo(a)pyrene-d12	23.52	264	2109355	23.14	ng/ul	0.01

Target Compounds

					Ovalue
6) Phenol	7.00	94	480687	16.265	ng/ul 98
10) 2-Chlorophenol	7.37	128	398712	16.952	ng/ul 94
15) N-Nitroso-di-n-propylamine	8.62	70	318971	16.976	ng/ul 97
33) 4-Chloro-3-methylphenol	11.88	107	385183	17.714	ng/ul 98
44) Dimethylphthalate	13.90	163	684989	11.463	ng/ul 100
47) Acenaphthylene	14.17	152	89550	1.223	ng/ul 98
49) Acenaphthene	14.51	153	1044855	20.445	ng/ul 99
52) 4-Nitrophenol	14.66	109	82837	9.867	ng/ul 97
54) 2,4-Dinitrotoluene	14.82	165	321449	19.837	ng/ul 96
68) Pentachlorophenol	16.84	266	200504	16.285	ng/ul 99
69) Phenanthrene	17.24	178	3497642	39.436	ng/ul 99
71) Anthracene	17.33	178	300276	3.303	ng/ul 98
74) Carbazole	17.60	167	680424	8.607	ng/ul 99
76) Fluoranthene	19.26	202	12310600	121.121	ng/ul 99
79) Pyrene	19.62	202	11652318	111.745	ng/ul 98
82) Benzo(a)anthracene	21.36	228	4241200	40.247	ng/ul 96
84) Chrysene	21.41	228	6511075	66.587	ng/ul 98
87) Benzo(b)fluoranthene	22.98	252	10991144	94.212	ng/ul 98
88) Benzo(k)fluoranthene	23.02	252	3295043m	29.549	ng/ul
90) Benzo(a)pyrene	23.57	252	5911981	53.266	ng/ul 96
91) Indeno(1,2,3-cd)pyrene	26.00	276	5855507	44.667	ng/ul# 94
92) Dibenzo(a,h)anthracene	26.00	278	1279747	11.521	ng/ul# 84
93) Benzo(g,h,i)perylene	26.71	276	5509856	51.807	ng/ul 97

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Instrument :
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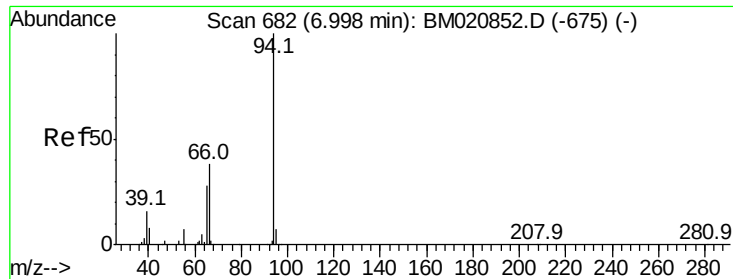
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Quant Time: Jun 14 04:00:30 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM060619MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Sun Jun 09 01:02:58 2019
Response via : Initial Calibration

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



#6

Phenol

Concen: 16.265 ng/ul

RT: 7.00 min Scan# 682

Delta R.T. 0.00 min

Lab File: BM020856.D

Acq: 11 Jun 2019 03:49

Instrument :

BNA_M

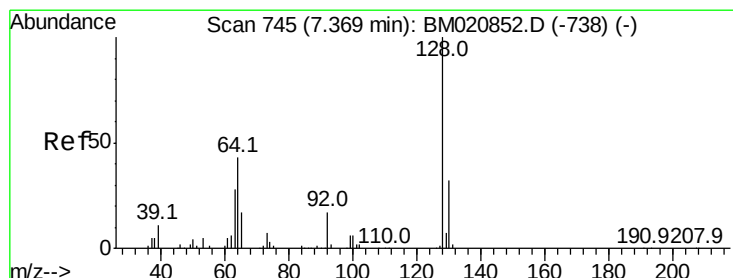
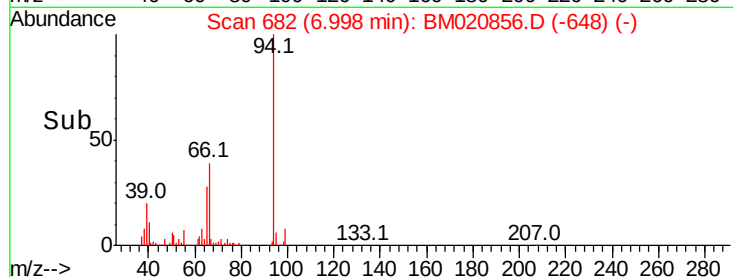
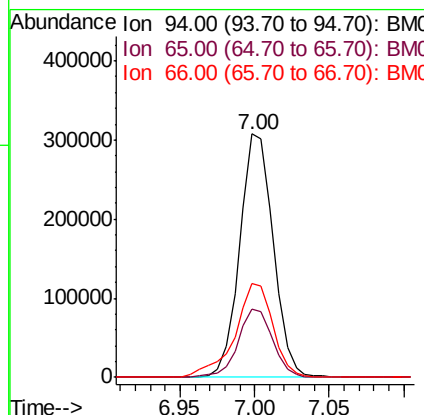
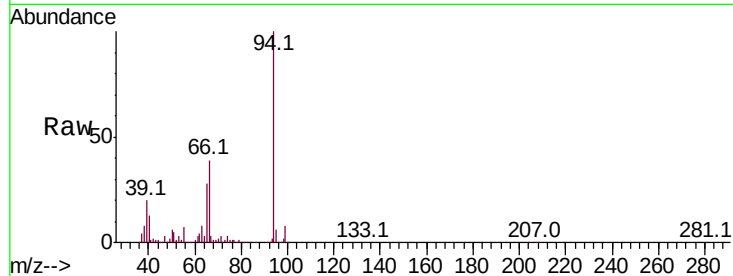
ClientSampleId :

A51F0MSD

Tot Ion	Ratio	Lower	Upper
94	100		
65	28.3	23.3	34.9
66	38.6	32.1	48.1

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#10

2-Chlorophenol

Concen: 16.952 ng/ul

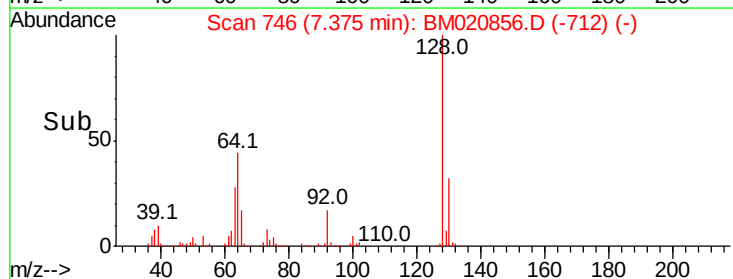
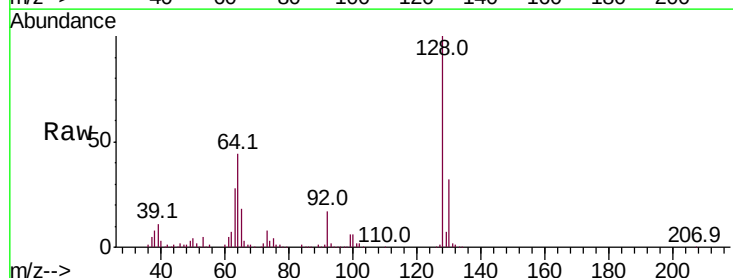
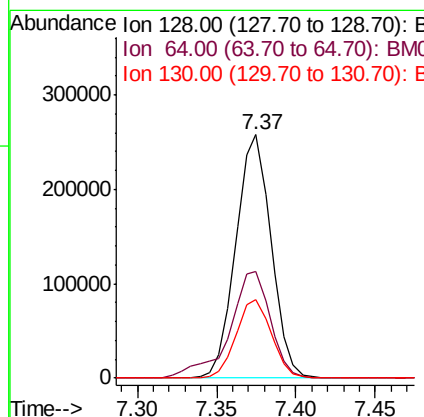
RT: 7.37 min Scan# 746

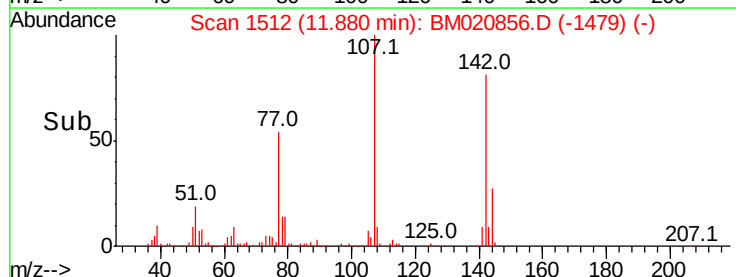
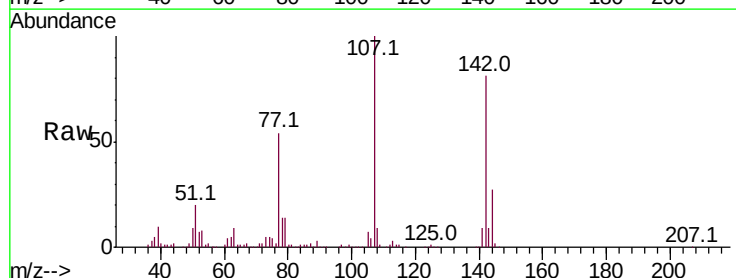
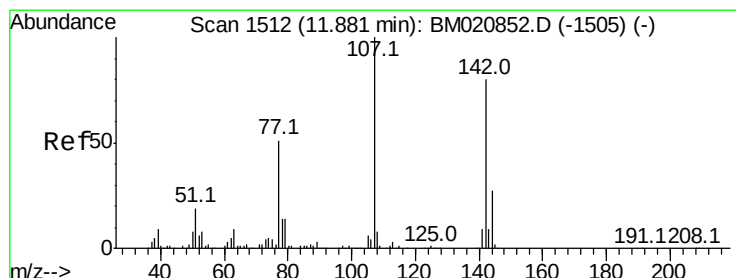
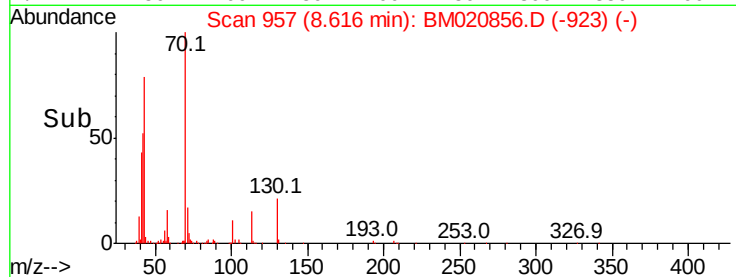
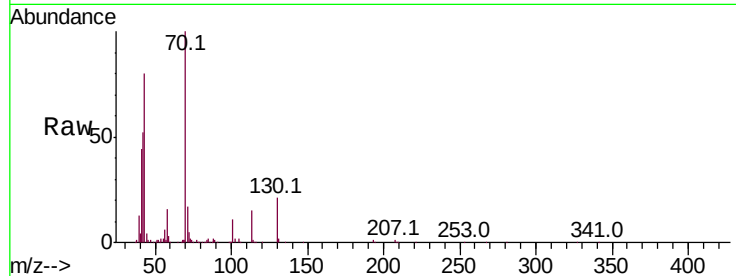
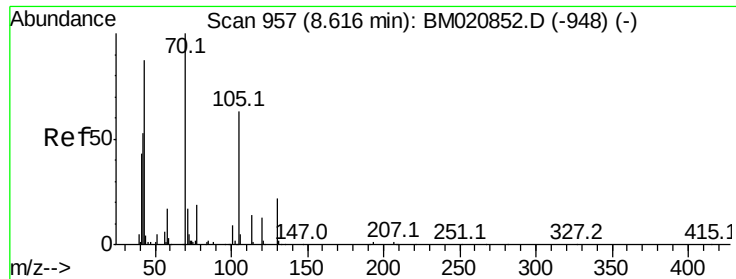
Delta R.T. 0.00 min

Lab File: BM020856.D

Acq: 11 Jun 2019 03:49

Tgt Ion	Ratio	Lower	Upper
128	100		
64	43.8	39.0	58.4
130	32.3	27.5	41.3





#15

N-Nitroso-di-n-propylamine

Concen: 16.976 ng/ul

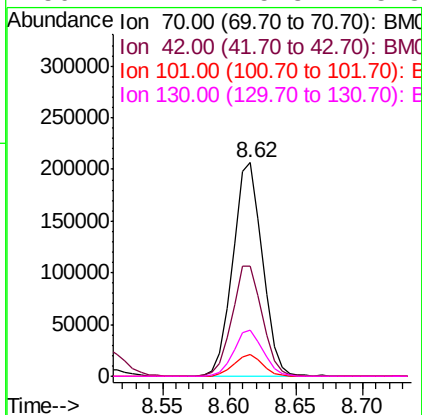
RT: 8.62 min Scan# 957

Delta R.T. 0.00 min

Lab File: BM020856.D

Acq: 11 Jun 2019 03:49

Tot Ion	Ratio	Lower	Upper
70	100		
42	51.8	43.6	65.4
101	10.5	8.2	12.2
130	21.4	15.8	23.8



Instrument :

BNA_M

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#33

4-Chloro-3-methylphenol

Concen: 17.714 ng/ul

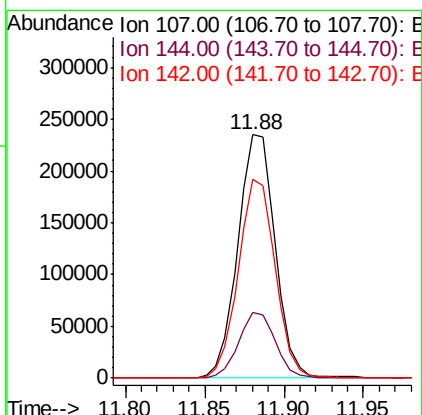
RT: 11.88 min Scan# 1512

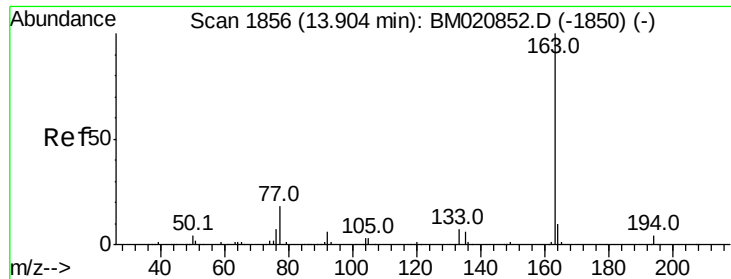
Delta R.T. -0.01 min

Lab File: BM020856.D

Acq: 11 Jun 2019 03:49

Tgt Ion	Ratio	Lower	Upper
107	100		
144	27.0	21.3	31.9
142	81.4	63.2	94.8





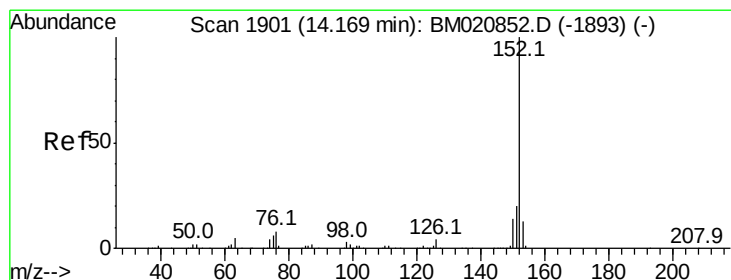
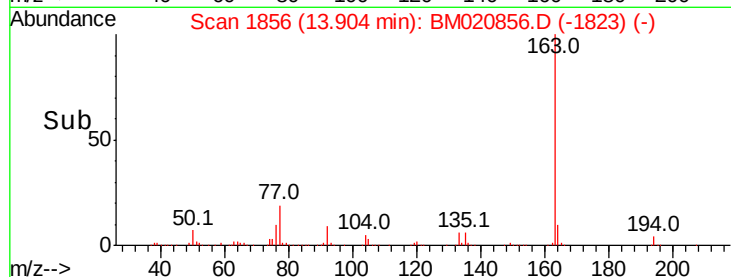
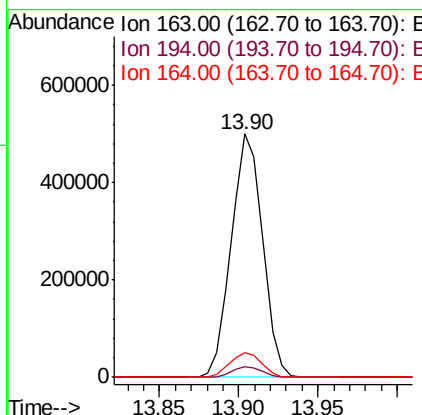
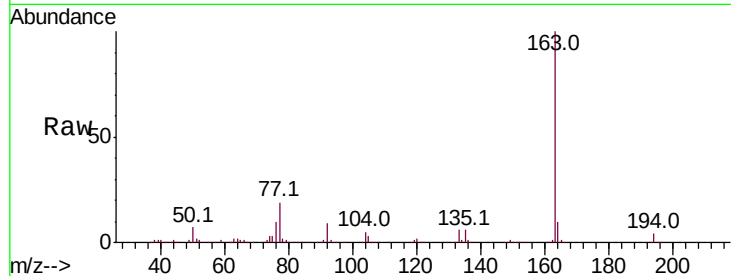
#44
Dimethylphthalate
Concen: 11.463 ng/ul
RT: 13.90 min Scan# 1856
Delta R.T. -0.01 min
Lab File: BM020856.D
Acq: 11 Jun 2019 03:49

Instrument :
BNA_M
ClientSampleId :
A51F0MSD

Tot Ion	Ratio	Resp	Lower	Upper
163	100	684989		
194	4.1		3.2	4.8
164	10.2		8.0	12.0

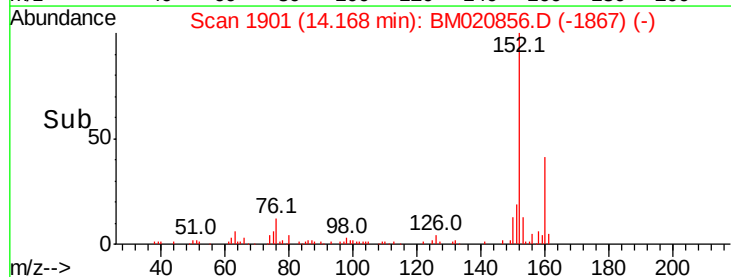
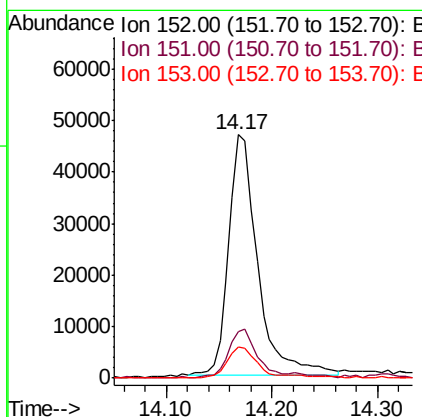
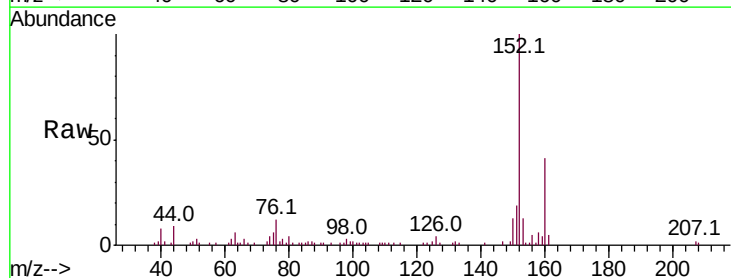
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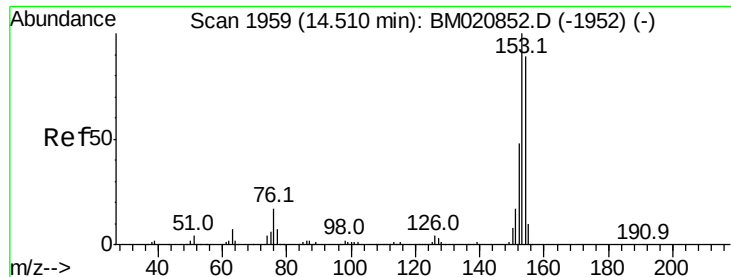
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#47
Acenaphthylene
Concen: 1.223 ng/ul
RT: 14.17 min Scan# 1901
Delta R.T. 0.00 min
Lab File: BM020856.D
Acq: 11 Jun 2019 03:49

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	89550		
151	19.2		16.2	24.2
153	12.8		10.6	15.8





#49

Acenaphthene

Concen: 20.445 ng/ul

RT: 14.51 min Scan# 1959

Delta R.T. -0.01 min

Lab File: BM020856.D

Acq: 11 Jun 2019 03:49

Instrument :

BNA_M

ClientSampleId :

A51F0MSD

Tot Ion:153 Resp: 1044855

Ion Ratio Lower Upper

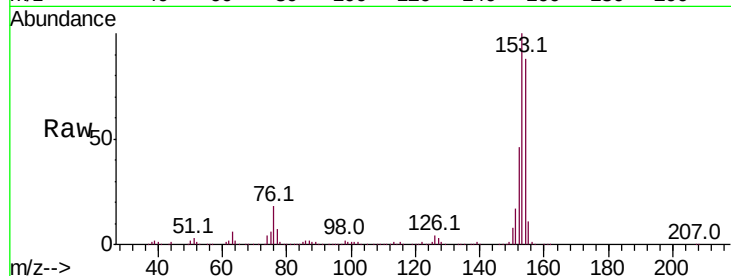
153 100

152 46.3 37.3 55.9

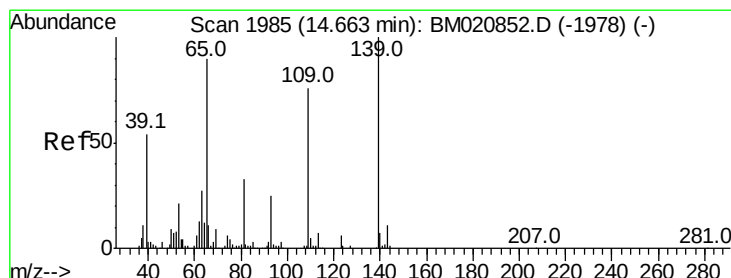
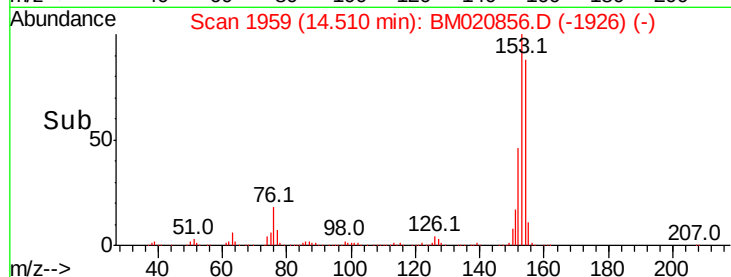
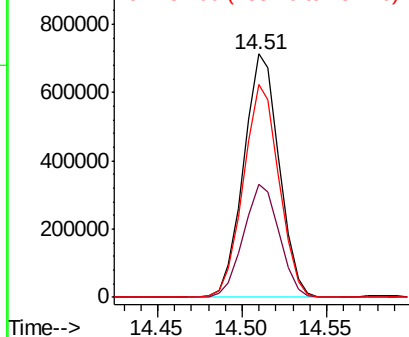
154 87.6 68.7 103.1

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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



#52

4-Nitrophenol

Concen: 9.867 ng/ul

RT: 14.66 min Scan# 1985

Delta R.T. 0.00 min

Lab File: BM020856.D

Acq: 11 Jun 2019 03:49

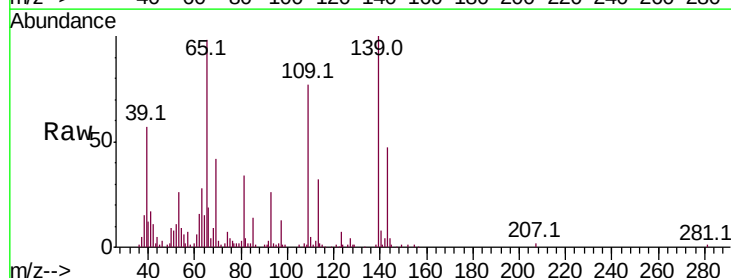
Tgt Ion:109 Resp: 82837

Ion Ratio Lower Upper

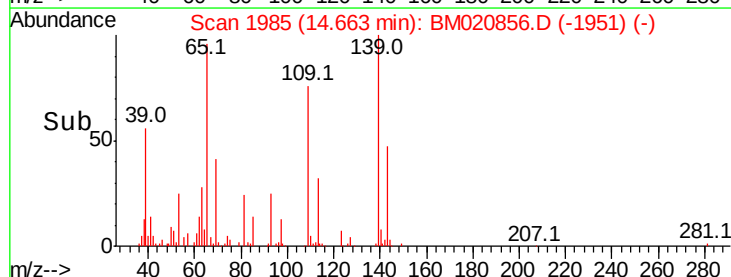
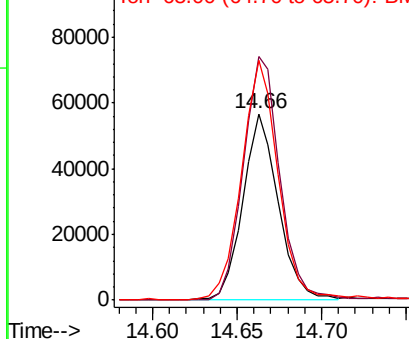
109 100

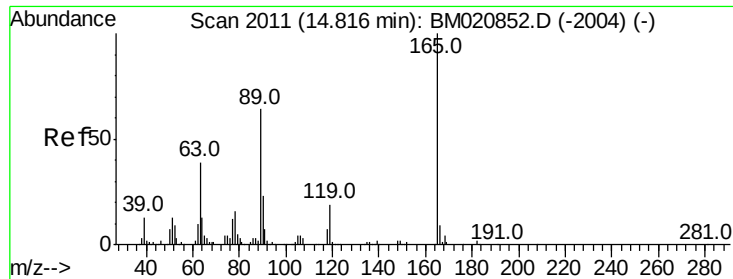
139 130.5 105.9 158.9

65 128.4 106.2 159.4



Abundance Ion 109.00 (108.70 to 109.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 65.00 (64.70 to 65.70): E





#54

2,4-Dinitrotoluene

Concen: 19.837 ng/ul

RT: 14.82 min Scan# 2012

Delta R.T. 0.01 min

Lab File: BM020856.D

Acq: 11 Jun 2019 03:49

Instrument :

BNA_M

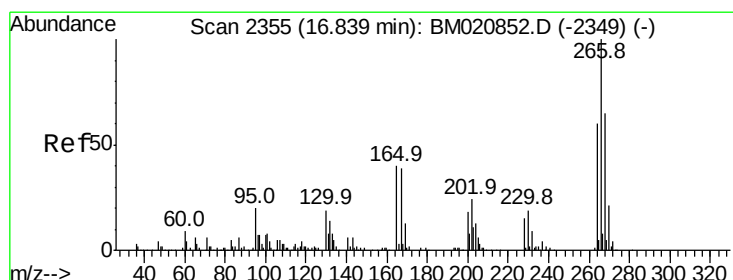
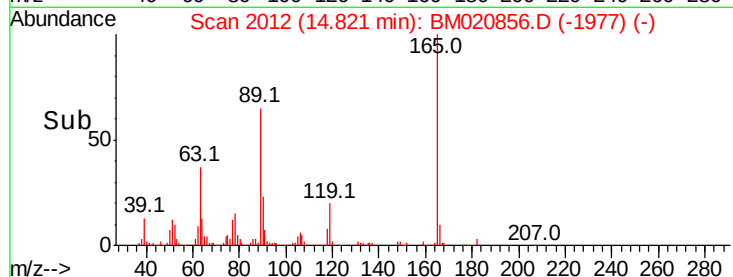
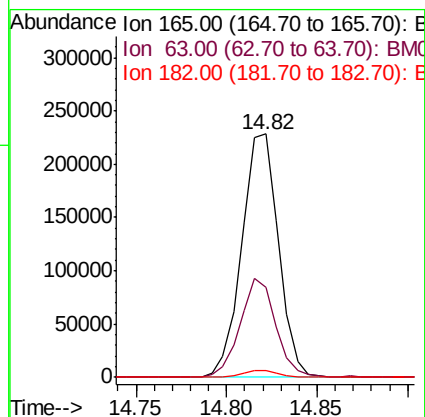
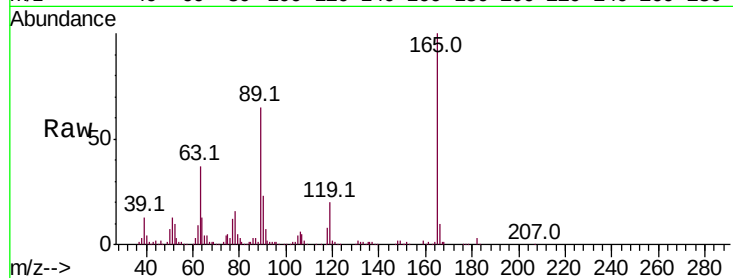
ClientSampleId :

A51F0MSD

Tot Ion:	165	Resp:	321449
Ion Ratio	Lower	Upper	
165	100		
63	37.2	31.7	47.5
182	3.0	2.2	3.4

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#68

Pentachlorophenol

Concen: 16.285 ng/ul

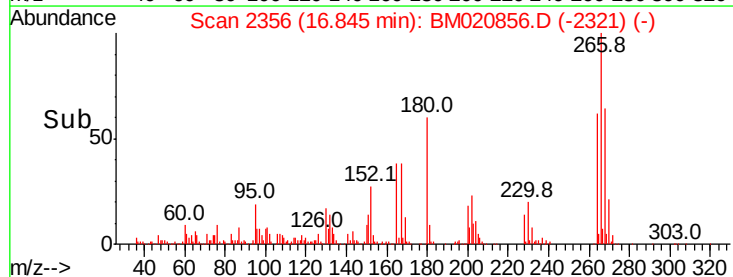
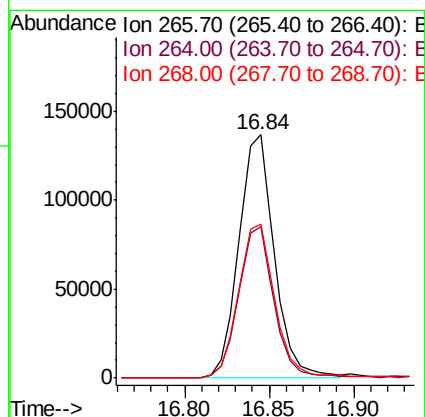
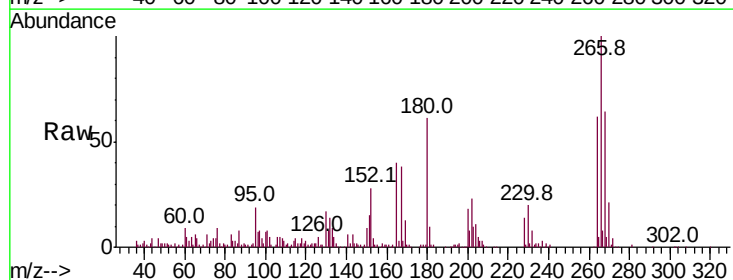
RT: 16.84 min Scan# 2356

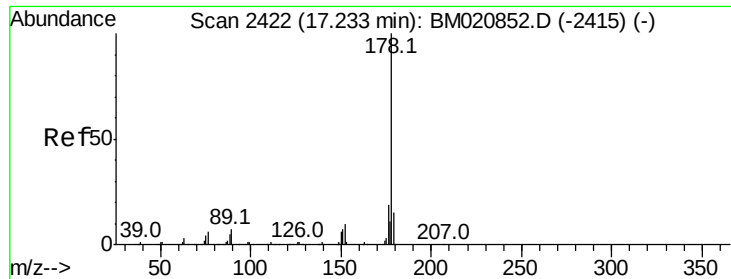
Delta R.T. 0.01 min

Lab File: BM020856.D

Acq: 11 Jun 2019 03:49

Tgt Ion:	266	Resp:	200504
Ion Ratio	Lower	Upper	
266	100		
264	62.0	50.3	75.5
268	63.5	51.2	76.8





#69

Phenanthrene

Concen: 39.436 ng/ul

RT: 17.24 min Scan# 2423

Delta R.T. 0.00 min

Lab File: BM020856.D

Acq: 11 Jun 2019 03:49

Instrument :

BNA_M

ClientSampleId :

A51F0MSD

Tot Ion:178 Resp: 3497642

Ion Ratio Lower Upper

178 100

179 15.5 12.3 18.5

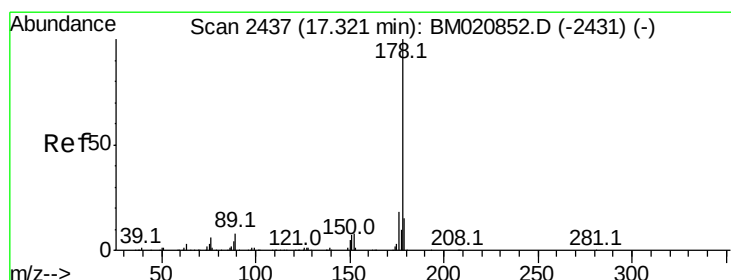
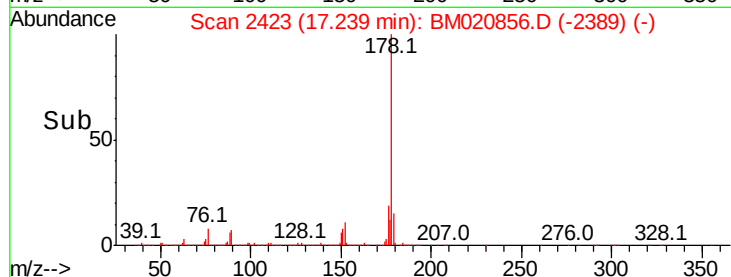
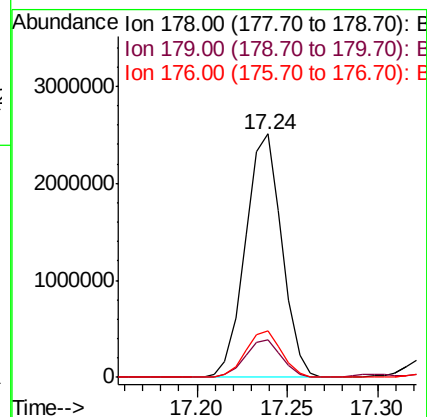
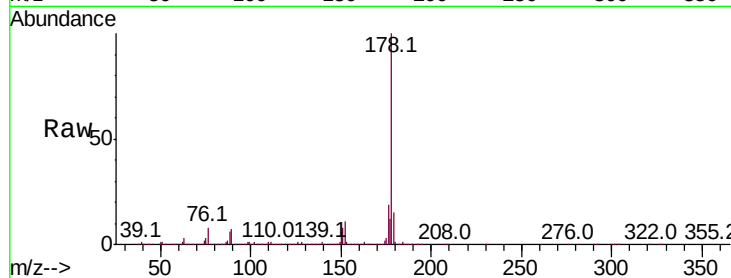
176 19.1 14.8 22.2

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#71

Anthracene

Concen: 3.303 ng/ul

RT: 17.33 min Scan# 2438

Delta R.T. 0.00 min

Lab File: BM020856.D

Acq: 11 Jun 2019 03:49

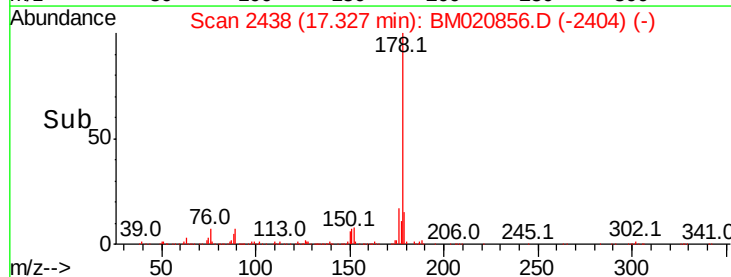
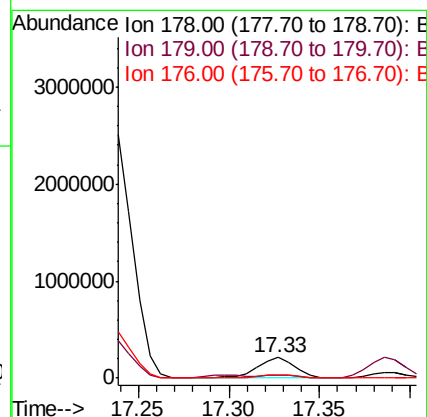
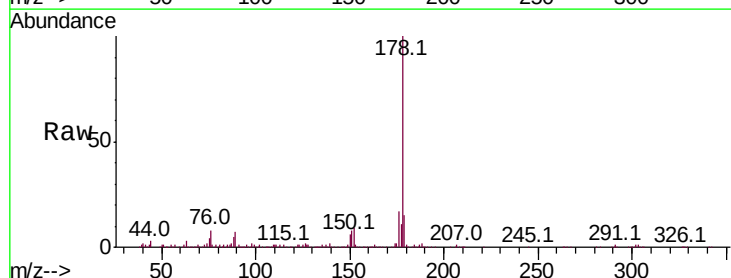
Tgt Ion:178 Resp: 300276

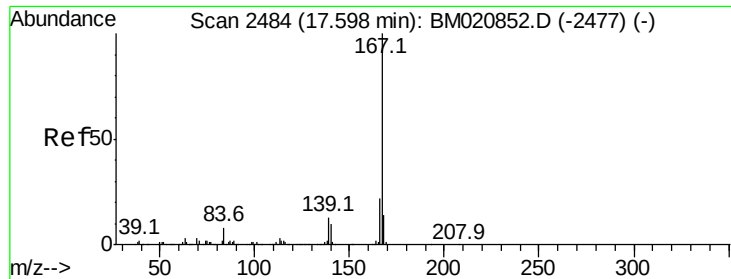
Ion Ratio Lower Upper

178 100

179 15.1 12.1 18.1

176 16.8 14.9 22.3





#74

Carbazole

Concen: 8.607 ng/ul

RT: 17.60 min Scan# 2484

Delta R.T. 0.00 min

Lab File: BM020856.D

Acq: 11 Jun 2019 03:49

Instrument :

BNA_M

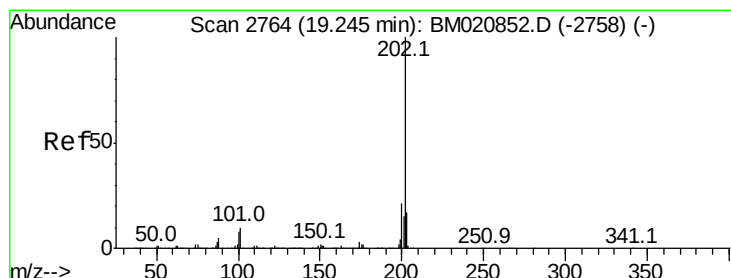
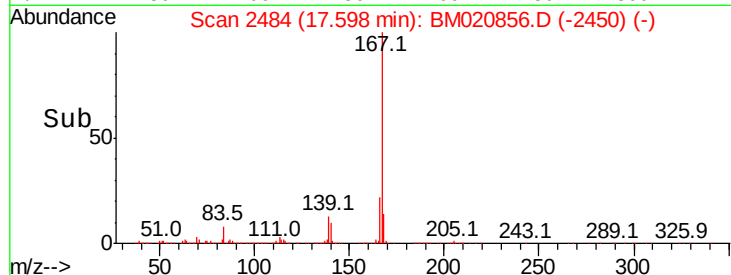
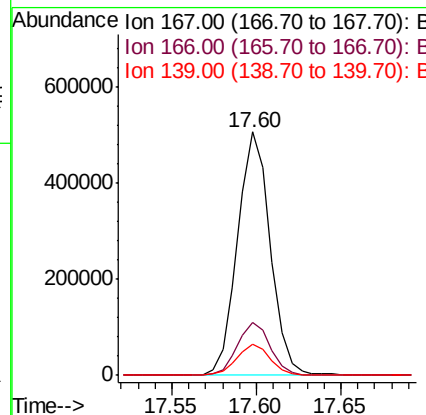
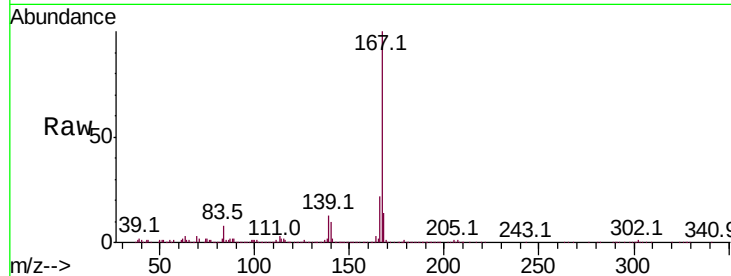
ClientSampleId :

A51F0MSD

Tot Ion:	167	Resp:	680424
Ion Ratio	Lower	Upper	
167	100		
166	21.8	17.0	25.6
139	13.0	10.5	15.7

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#76

Fluoranthene

Concen: 121.121 ng/ul

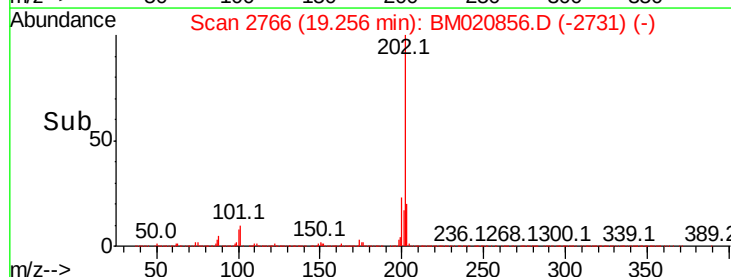
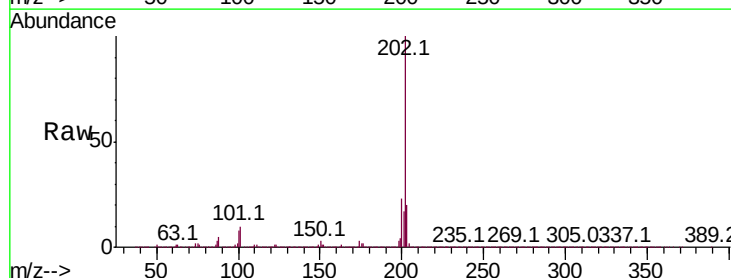
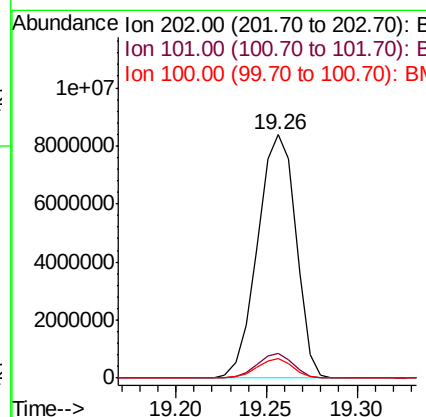
RT: 19.26 min Scan# 2766

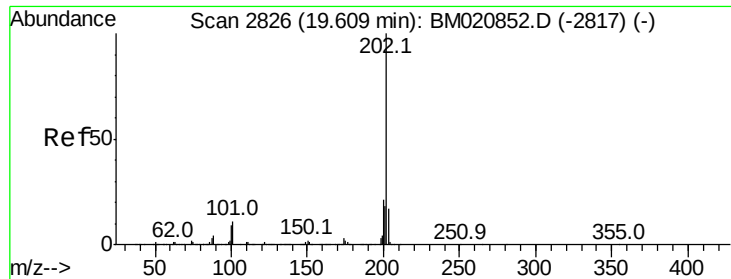
Delta R.T. 0.01 min

Lab File: BM020856.D

Acq: 11 Jun 2019 03:49

Tgt Ion:	202	Resp:	12310600
Ion Ratio	Lower	Upper	
202	100		
101	10.2	7.9	11.9
100	7.9	6.2	9.4





#79

Pvrene

Concen: 111.745 ng/ul

RT: 19.62 min Scan# 2828

Delta R.T. 0.01 min

Lab File: BM020856.D

Acq: 11 Jun 2019 03:49

Instrument :

BNA_M

ClientSampleId :

A51F0MSD

Tot Ion:202 Resp:11652318

Ion Ratio Lower Upper

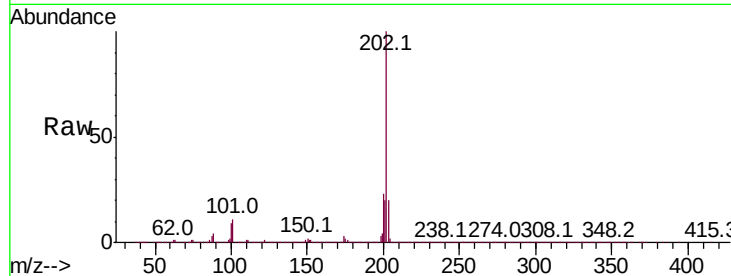
202 100

101 11.1 9.8 14.6

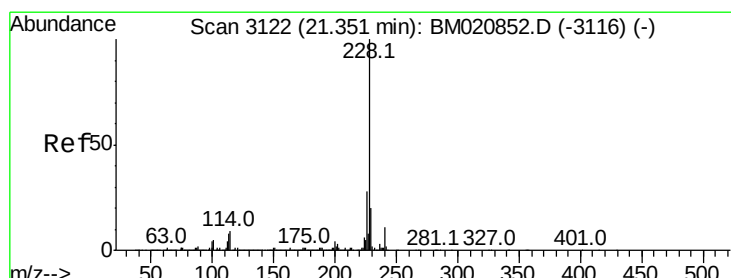
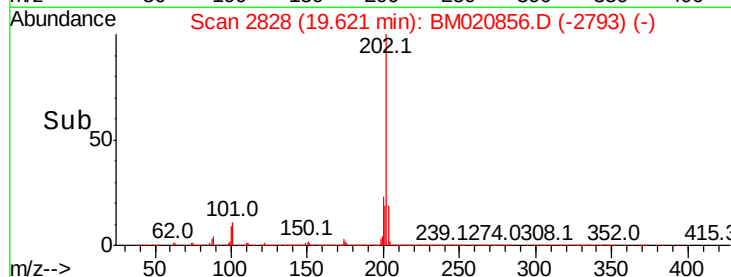
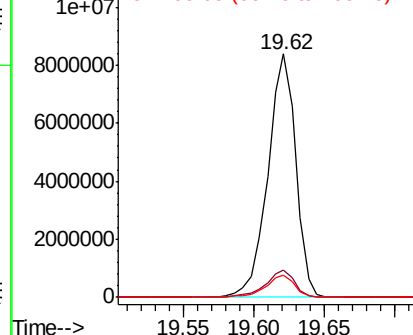
100 9.3 8.0 12.0

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



#82

Benzo(a)anthracene

Concen: 40.247 ng/ul

RT: 21.36 min Scan# 3123

Delta R.T. 0.00 min

Lab File: BM020856.D

Acq: 11 Jun 2019 03:49

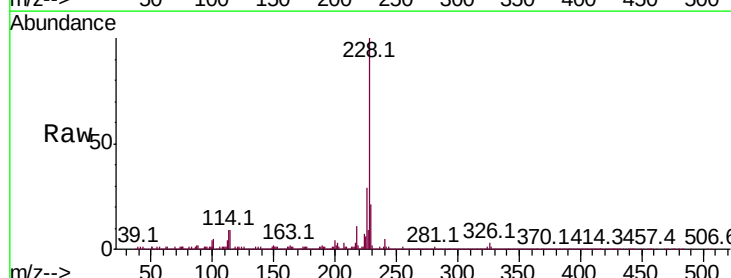
Tgt Ion:228 Resp: 4241200

Ion Ratio Lower Upper

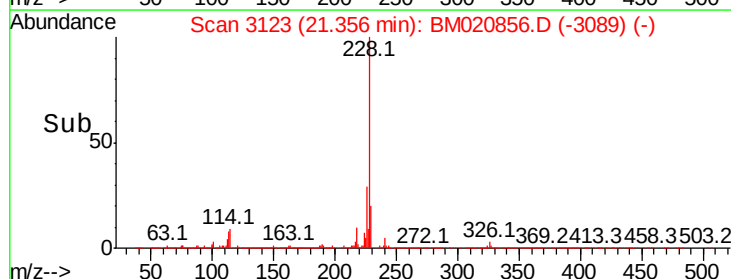
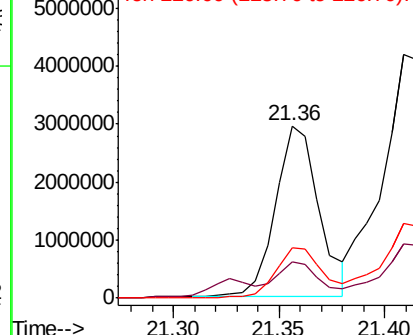
228 100

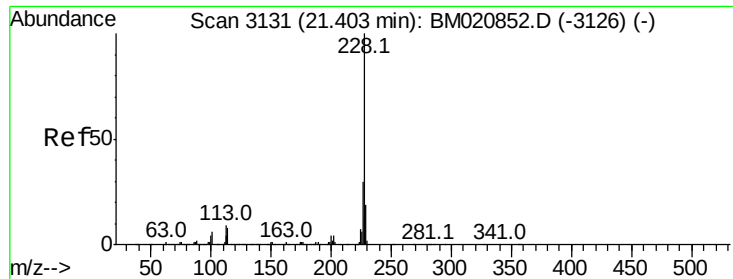
229 21.1 15.6 23.4

226 28.8 21.4 32.2



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 229.00 (228.70 to 229.70): E
Ion 226.00 (225.70 to 226.70): E





#84

Chrysene

Concen: 66.587 ng/ul

RT: 21.41 min Scan# 3132

Delta R.T. 0.00 min

Lab File: BM020856.D

Acq: 11 Jun 2019 03:49

Instrument :

BNA_M

ClientSampled :

A51F0MSD

Tot Ion:228 Resp: 6511075

Ion Ratio Lower Upper

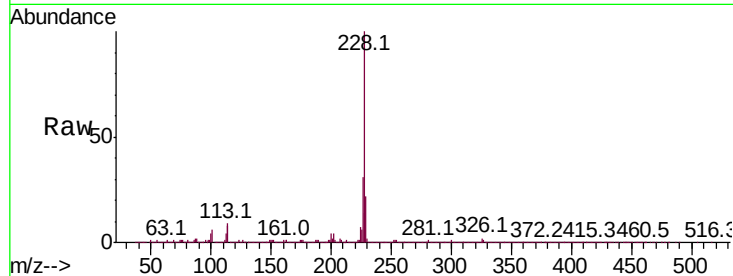
228 100

226 30.5 24.4 36.6

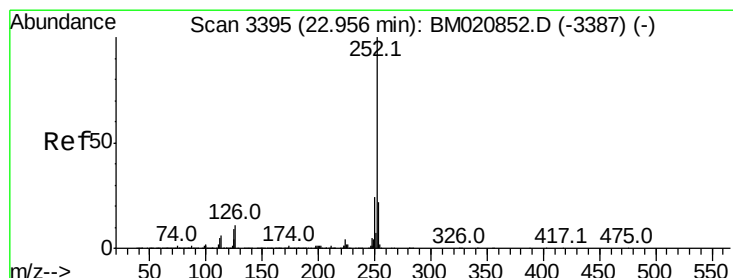
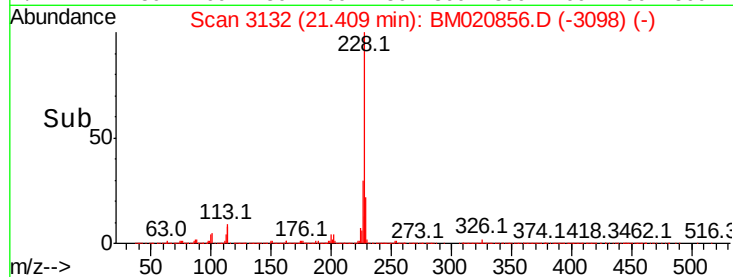
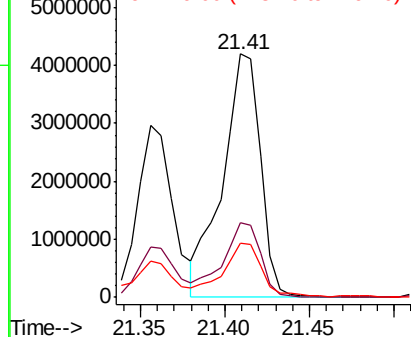
229 22.1 16.2 24.2

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Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E



#87

Benzo(b)fluoranthene

Concen: 94.212 ng/ul

RT: 22.98 min Scan# 3399

Delta R.T. 0.01 min

Lab File: BM020856.D

Acq: 11 Jun 2019 03:49

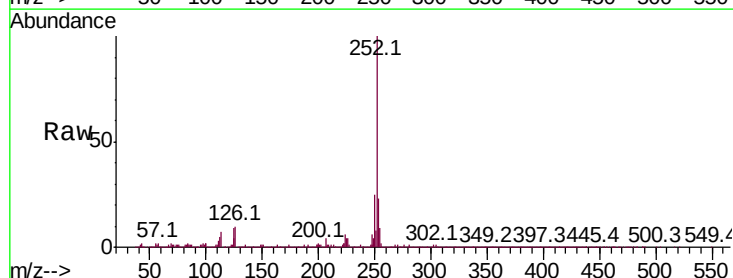
Tgt Ion:252 Resp:10991144

Ion Ratio Lower Upper

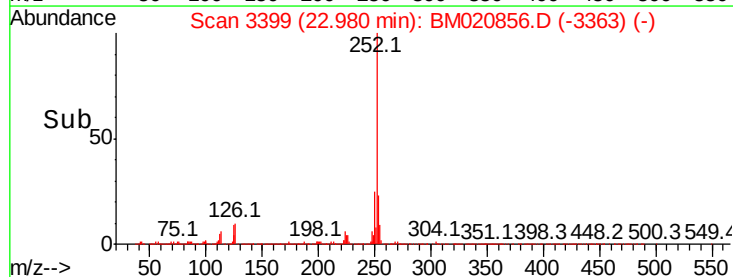
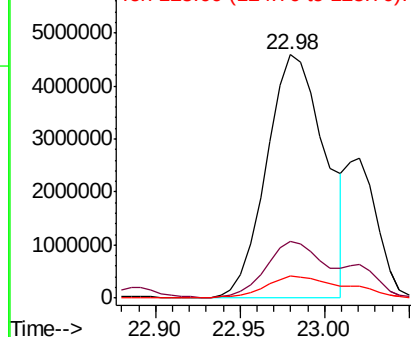
252 100

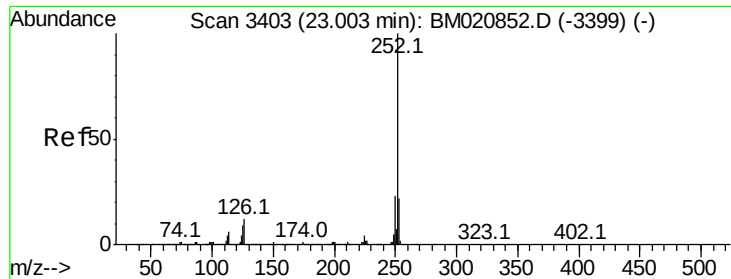
253 23.2 17.6 26.4

125 9.0 7.3 10.9



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





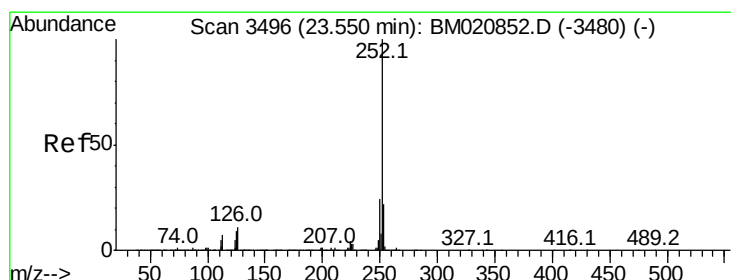
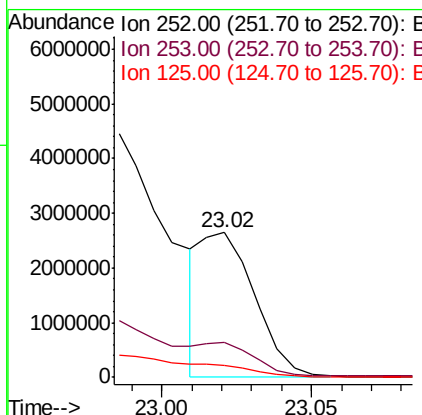
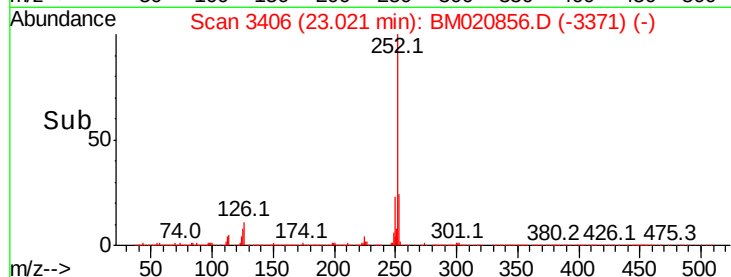
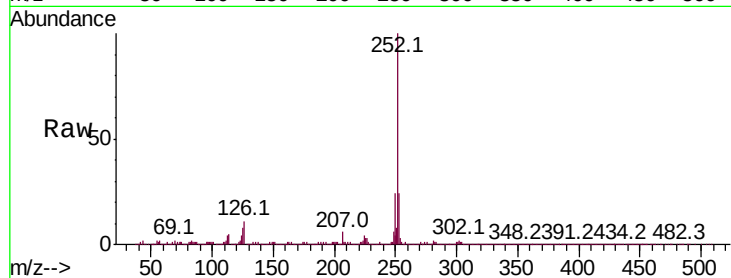
#88
Benzo(k)fluoranthene
Concen: 29.549 ng/ul m
RT: 23.02 min Scan# 3406
Delta R.T. 0.01 min
Lab File: BM020856.D
Acq: 11 Jun 2019 03:49

Instrument :
BNA_M
ClientSampled :
A51F0MSD

Tot Ion:252 Resp: 3295043
Ion Ratio Lower Upper
252 100
253 23.9 17.6 26.4
125 8.4 7.3 10.9

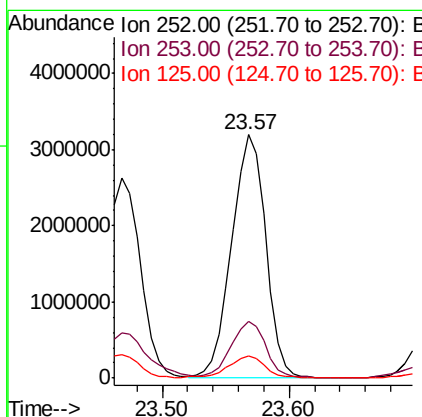
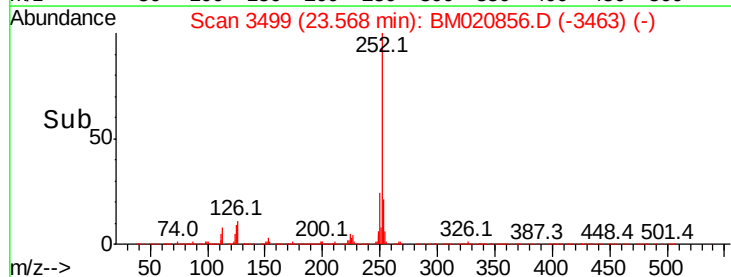
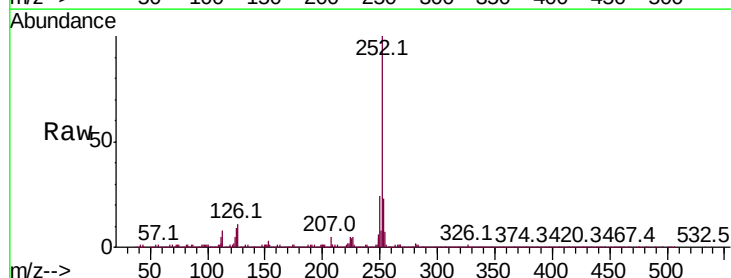
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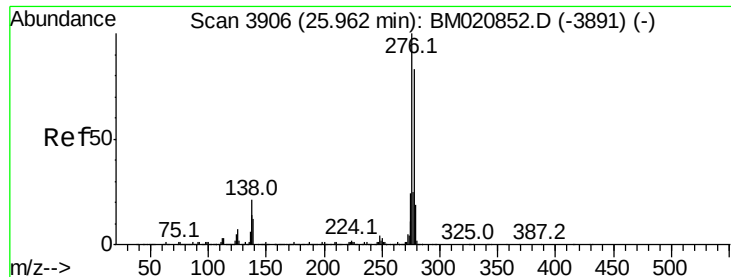
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#90
Benzo(a)pyrene
Concen: 53.266 ng/ul
RT: 23.57 min Scan# 3499
Delta R.T. 0.01 min
Lab File: BM020856.D
Acq: 11 Jun 2019 03:49

Tgt Ion:252 Resp: 5911981
Ion Ratio Lower Upper
252 100
253 23.4 17.0 25.6
125 9.1 8.2 12.4





#91

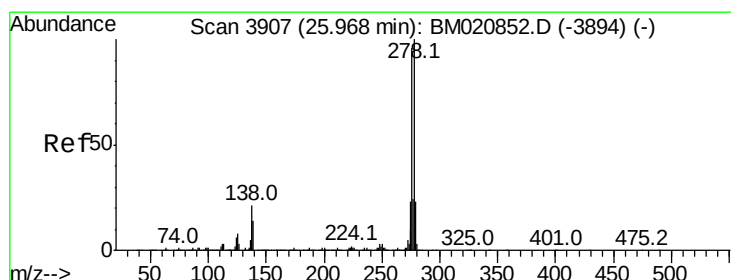
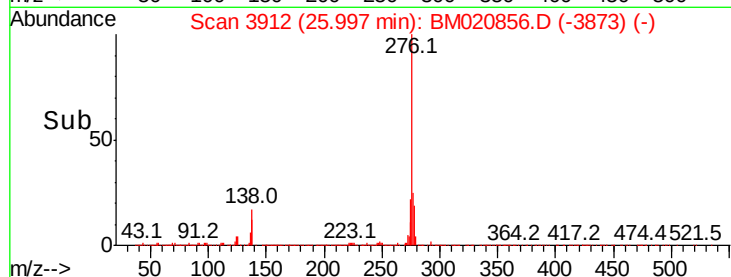
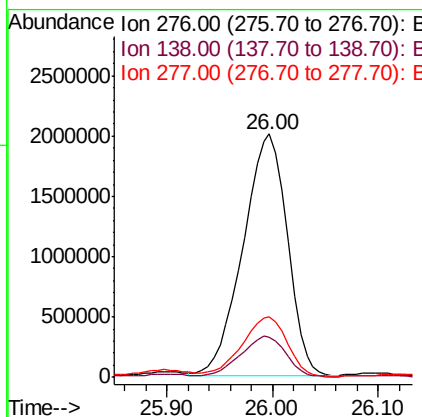
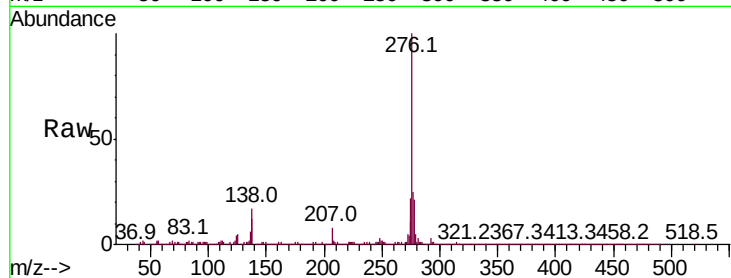
Indeno(1,2,3-cd)pyrene
Concen: 44.667 ng/ul
RT: 26.00 min Scan# 3912
Delta R.T. 0.03 min
Lab File: BM020856.D
Acq: 11 Jun 2019 03:49

Instrument :
BNA_M
ClientSampleId :
A51F0MSD

Tot Ion:276 Resp: 5855507
Ion Ratio Lower Upper
276 100
138 16.7 17.8 26.8#
277 25.1 20.0 30.0

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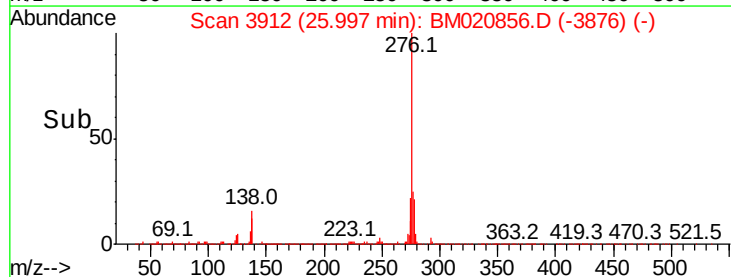
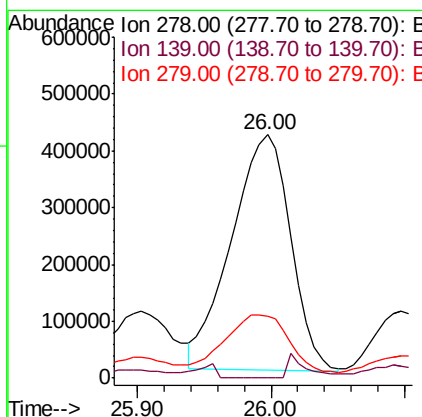
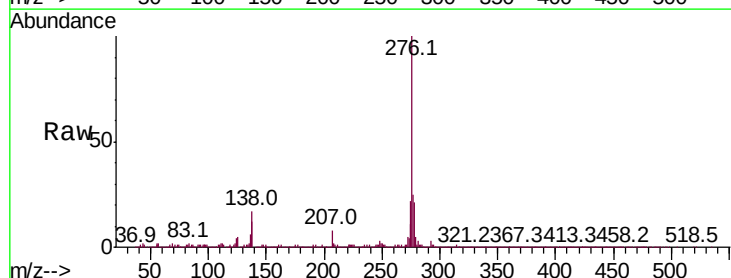
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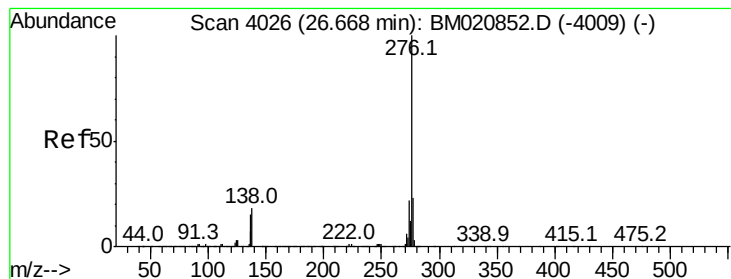


#92

Dibenzo(a,h)anthracene
Concen: 11.521 ng/ul
RT: 26.00 min Scan# 3912
Delta R.T. 0.01 min
Lab File: BM020856.D
Acq: 11 Jun 2019 03:49

Tgt Ion:278 Resp: 1279747
Ion Ratio Lower Upper
278 100
139 0.0 11.6 17.4#
279 25.4 18.6 28.0





#93

Benzo(a,h,i)perylene

Concen: 51.807 ng/ul

RT: 26.71 min Scan# 4033

Delta R.T. 0.02 min

Lab File: BM020856.D

Acq: 11 Jun 2019 03:49

Instrument :

BNA_M

ClientSampleId :

A51F0MSD

Tot Ion:276 Resp: 5509856

Ion Ratio Lower Upper

276 100

138 17.7 16.6 25.0

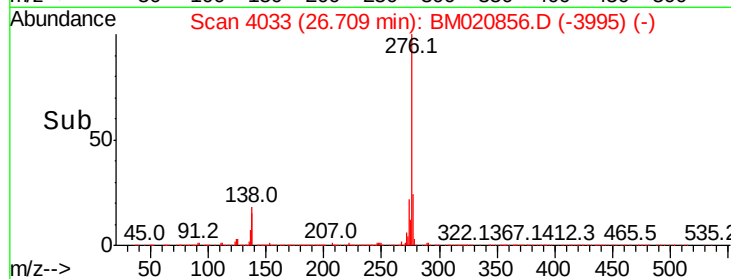
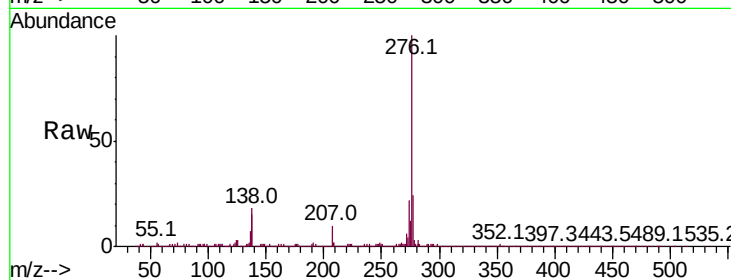
277 24.3 19.6 29.4

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

