

Data Path : Z:\HPCHEM1\BNA M\DATA\BM012418\
 Data File : BM013799.D
 Acq On : 25 Jan 2018 09:43
 Operator : SJ/JU
 Sample : J1222-13
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 F6A95

Manual Integrations
 APPROVED

Sohil
 1/25/2018 5:36:24 PM

Quant Time: Jan 25 11:50:33 2018
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM011018.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Thu Jan 25 03:36:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.59	152	181180	20.00	ng/ul	0.00
18) Naphthalene-d8	10.37	136	690291	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.25	164	430207	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.03	188	826419	20.00	ng/ul	0.03
75) Chrysene-d12	21.22	240	923825	20.00	ng/ul	0.02
83) Perylene-d12	23.44	264	909891	20.00	ng/ul	0.05

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.15	96	10371	2.26	ng/uL	0.00
5) Phenol-d5	6.78	99	290785	20.91	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	6.94	67	180333	21.40	ng/ul	0.00
9) 2-Chlorophenol-d4	7.13	132	251730	22.21	ng/ul	0.00
13) 4-Methylphenol-d8	8.31	113	250970	23.47	ng/ul	0.00
19) Nitrobenzene-d5	8.75	128	129016	24.09	ng/ul	0.00
22) 2-Nitrophenol-d4	9.46	143	142747	25.22	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.00	165	252377	23.08	ng/ul	0.00
29) 4-Chloroaniline-d4	10.52	131	116020	12.23	ng/ul	0.00
43) Dimethylphthalate-d6	13.67	166	701303	19.78	ng/ul	0.00
46) Acenaphthylene-d8	13.94	160	893487	19.76	ng/ul	0.00
51) 4-Nitrophenol-d4	14.48	143	108689	18.86	ng/ul	0.00
57) Fluorene-d10	15.25	176	595349	19.09	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.40	200	47766	9.60	ng/ul	0.01
70) Anthracene-d10	17.12	188	960863	23.87	ng/ul	0.02
76) Pyrene-d10	19.42	212	1109930	25.80	ng/ul	0.02
87) Benzo(a)pyrene-d12	23.30	264	1058831	25.32	ng/ul	0.04

Target Compounds

					Ovalue	
6) Phenol	6.81	94	47392	3.397	ng/ul#	90
28) Naphthalene	10.42	128	511859	14.905	ng/ul	99
34) 2-Methylnaphthalene	12.05	142	591877	23.117	ng/ul	96
38) 2,4,6-Trichlorophenol	12.67	196	21989	2.383	ng/ul	93
40) 1,1'-Biphenyl	13.07	154	345061	9.636	ng/ul	96
44) Dimethylphthalate	13.72	163	155177	4.451	ng/ul#	92
47) Acenaphthylene	13.97	152	487465	11.783	ng/ul#	96
49) Acenaphthene	14.32	153	2774654	96.842	ng/ul	99
53) Dibenzofuran	14.66	168	2220818	51.524	ng/ul	99
55) 2,3,4,6-Tetrachlorophenol	14.89	232	1136726	125.871	ng/ul#	91
58) Fluorene	15.31	166	1926612	54.567	ng/ul	98
68) Pentachlorophenol	16.70	266	28065920m	5026.875	ng/ul	
69) Phenanthrene	17.07	178	12290566	267.551	ng/ul	98
71) Anthracene	17.16	178	3498255	73.831	ng/ul	97
72) Carbazole	17.43	167	769420	19.672	ng/ul#	92
74) Fluoranthene	19.09	202	14910080	271.911	ng/ul#	86
77) Pyrene	19.46	202	13269712	236.275	ng/ul#	88
80) Benzo(a)anthracene	21.21	228	2328046m	41.705	ng/ul	
82) Chrysene	21.24	228	3901689m	76.190	ng/ul	
85) Benzo(b)fluoranthene	22.79	252	7130831	127.613	ng/ul#	97
86) Benzo(k)fluoranthene	22.81	252	1367293m	25.315	ng/ul	
88) Benzo(a)pyrene	23.34	252	2355980	44.632	ng/ul#	94
89) Indeno(1,2,3-cd)pyrene	25.66	276	1471103	23.609	ng/ul#	96

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Quant Title : SVOA CALIBRATION
QLast Update : Thu Jan 25 03:36:03 2018
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) Benzo(q,h,i)perylene	26.33	276	1290198	25.158	ng/ul#	92

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

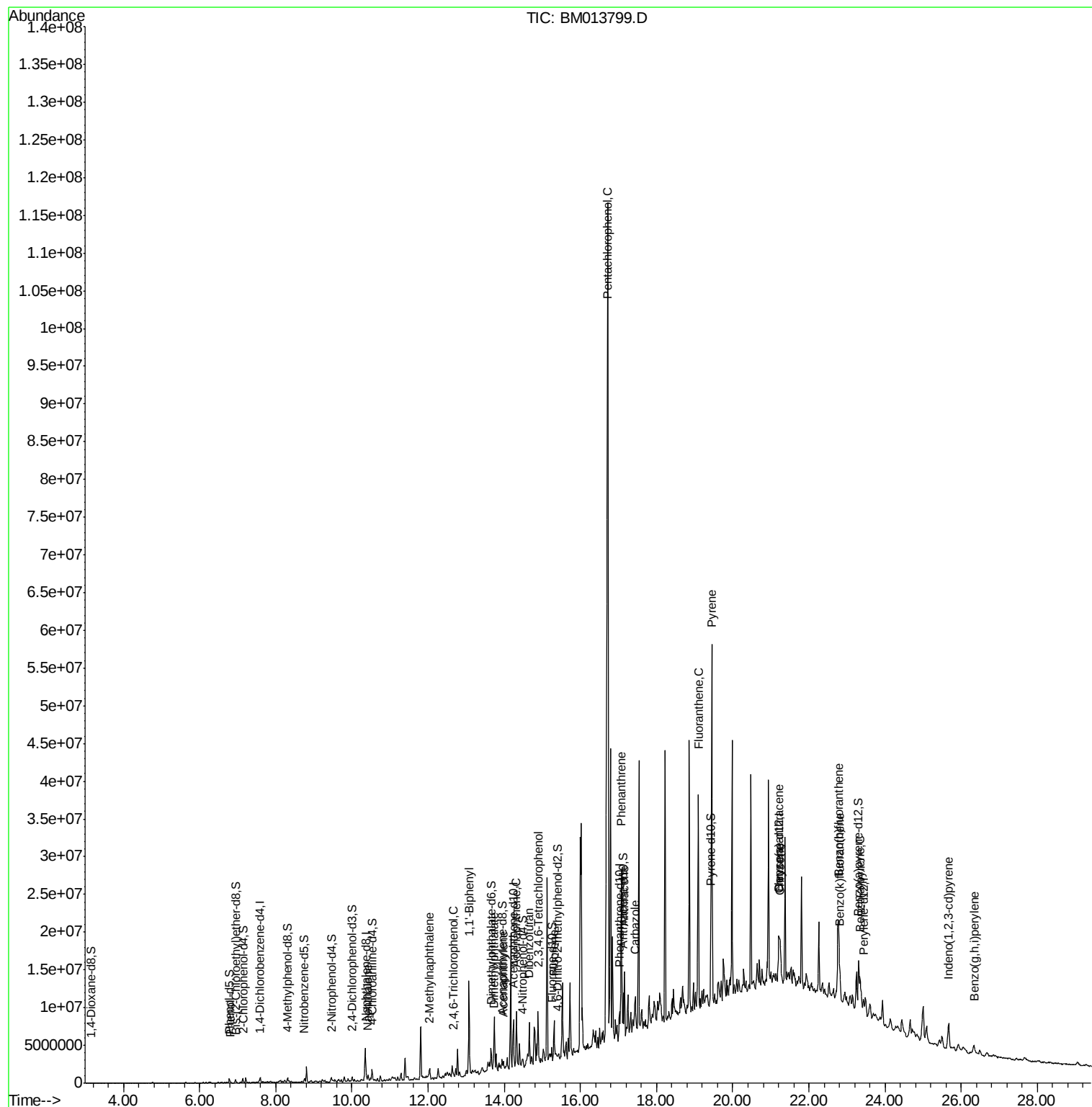
Data Path : Z:\HPCHEM1\BNA M\DATA\BM012418\
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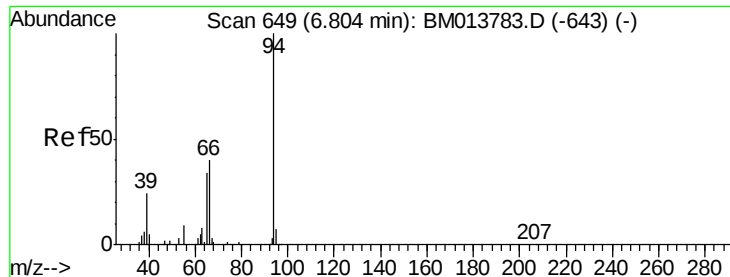
Instrument :
BNA_M
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#6

Phenol

Concen: 3.397 ng/ul

RT: 6.81 min Scan# 650

Delta R.T. 0.01 min

Lab File: BM013799.D

Acq: 25 Jan 2018 09:43

Instrument :

BNA_M

ClientSampled :

F6A95

Tot Ion: 94 Resp: 47392

Ion Ratio Lower Upper

94 100

65 27.3 28.2 42.4#

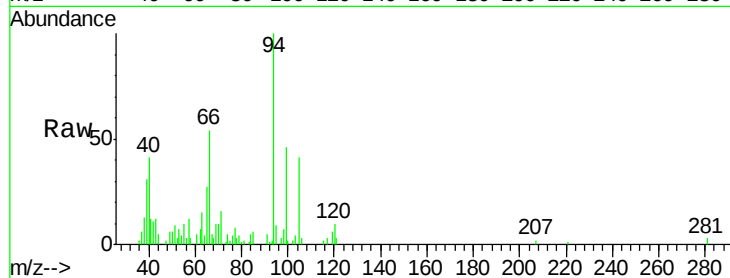
66 53.8 47.2 70.8

Manual Integrations

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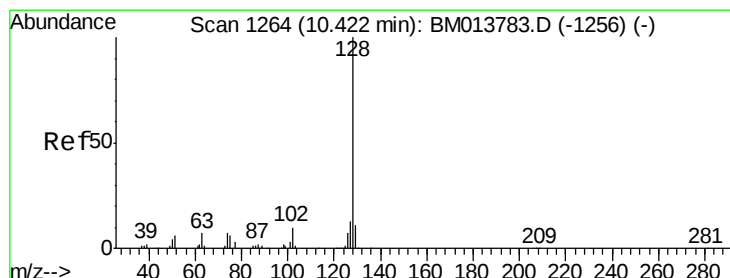
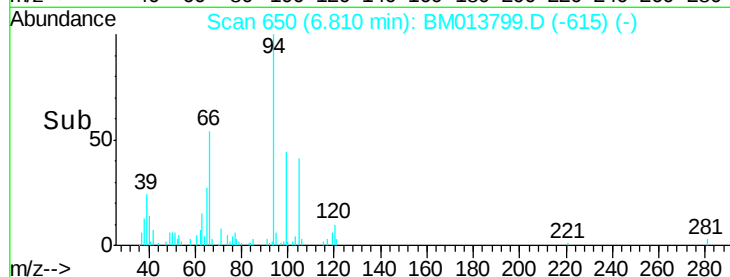
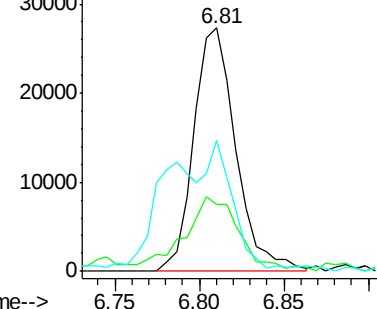
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Abundance Ion 94.00 (93.70 to 94.70): BM013783.D (-643) (-)

Ion 65.00 (64.70 to 65.70): BM013783.D (-643) (-)

Ion 66.00 (65.70 to 66.70): BM013783.D (-643) (-)



#28

Naphthalene

Concen: 14.905 ng/ul

RT: 10.42 min Scan# 1264

Delta R.T. 0.00 min

Lab File: BM013799.D

Acq: 25 Jan 2018 09:43

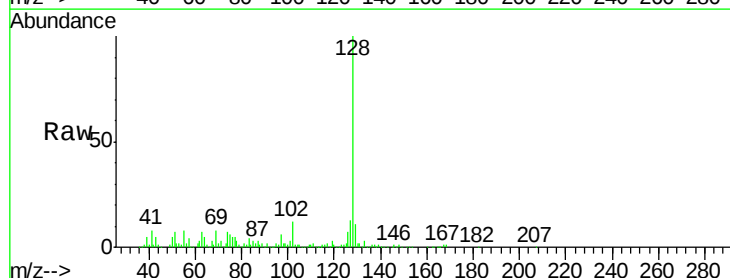
Tgt Ion: 128 Resp: 511859

Ion Ratio Lower Upper

128 100

129 11.4 8.8 13.2

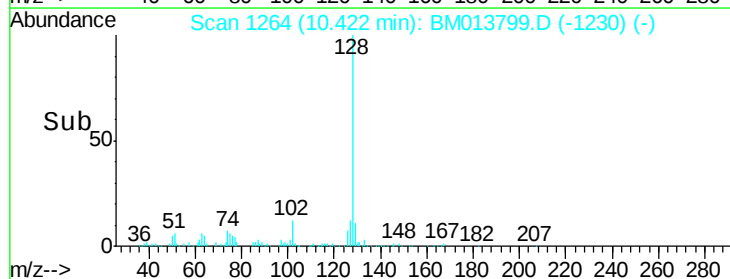
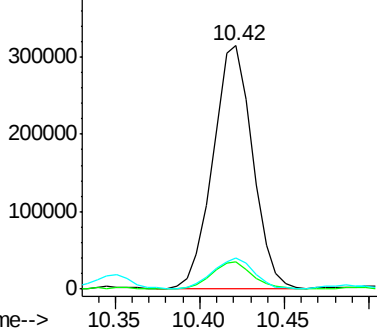
127 12.6 10.6 16.0

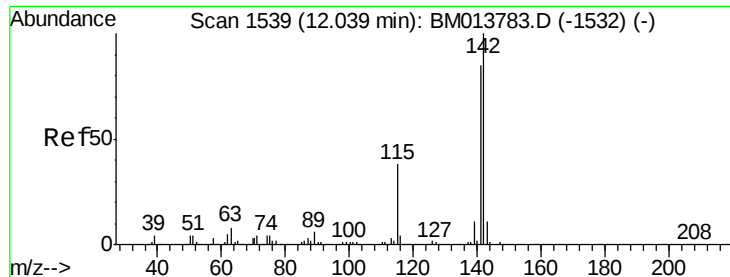


Abundance Ion 128.00 (127.70 to 128.70): BM013783.D (-1256) (-)

Ion 129.00 (128.70 to 129.70): BM013783.D (-1256) (-)

Ion 127.00 (126.70 to 127.70): BM013783.D (-1256) (-)





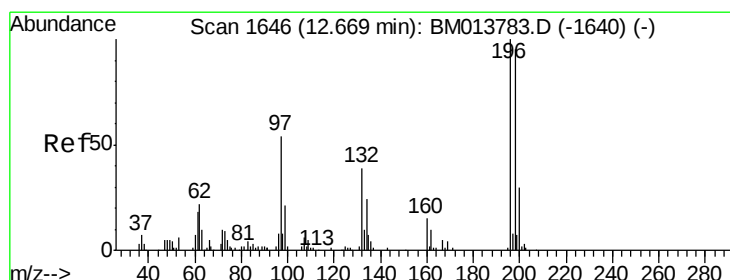
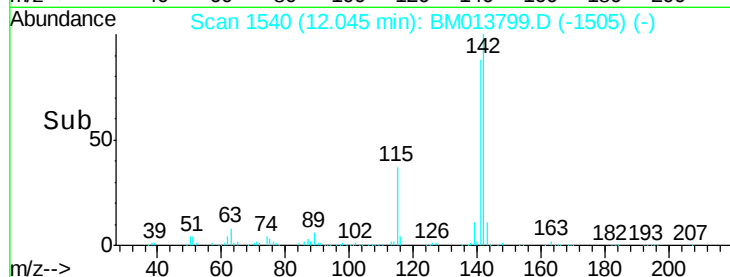
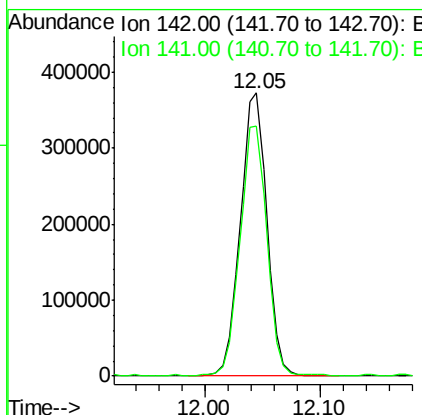
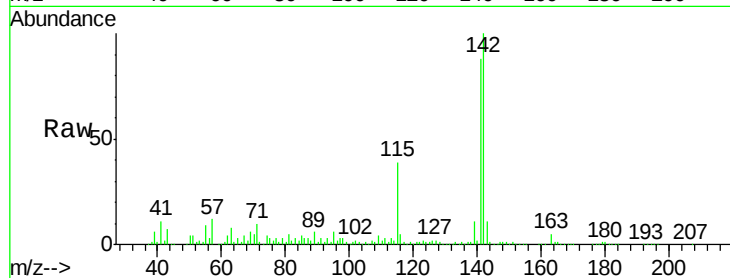
#34
2-Methylnaphthalene
Concen: 23.117 ng/ul
RT: 12.05 min Scan# 1540
Delta R.T. 0.01 min
Lab File: BM013799.D
Acq: 25 Jan 2018 09:43

Instrument :
BNA_M
ClientSampleId :
F6A95

Tot Ion	Ratio	Lower	Upper
142	100		
141	88.4	74.1	111.1

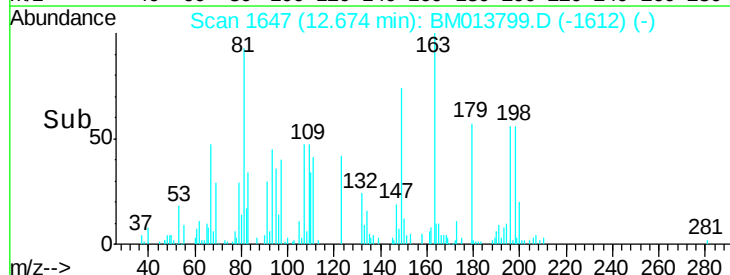
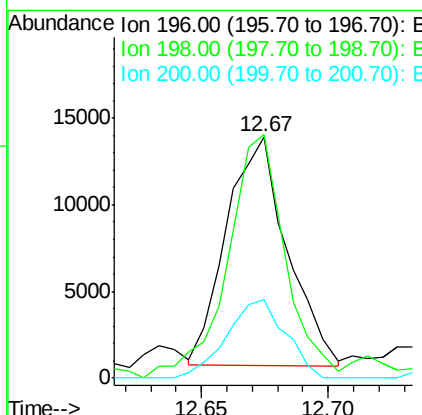
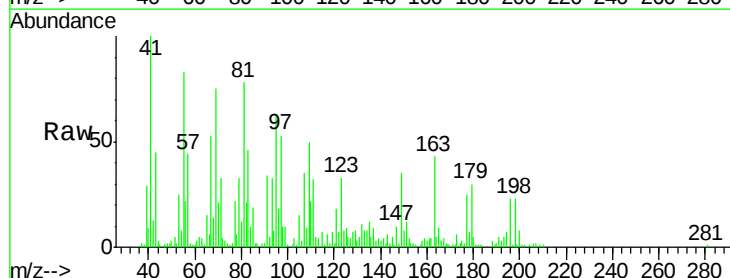
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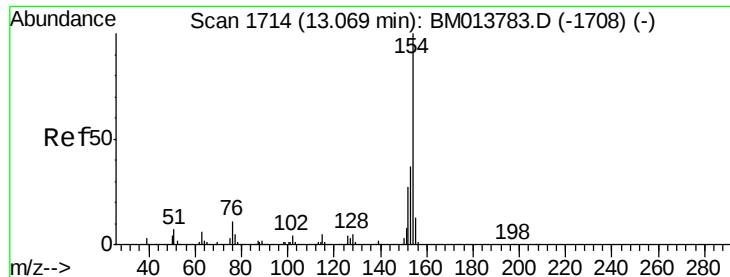
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#38
2,4,6-Trichlorophenol
Concen: 2.383 ng/ul
RT: 12.67 min Scan# 1647
Delta R.T. 0.01 min
Lab File: BM013799.D
Acq: 25 Jan 2018 09:43

Tgt Ion	Ratio	Lower	Upper
196	100		
198	100.9	74.1	111.1
200	32.7	25.2	37.8





#40

1,1'-Biphenyl

Concen: 9.636 ng/ul

RT: 13.07 min Scan# 1715

Delta R.T. 0.01 min

Lab File: BM013799.D

Acq: 25 Jan 2018 09:43

Instrument :

BNA_M

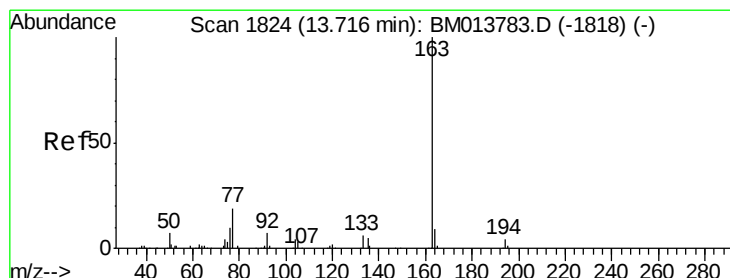
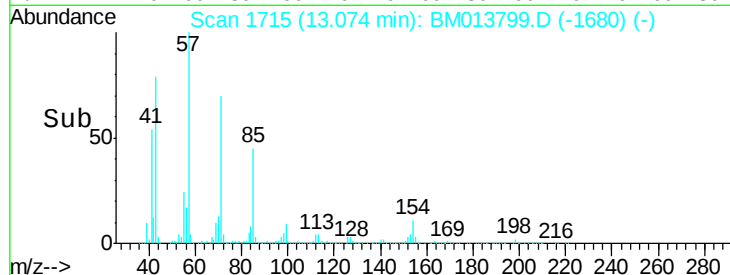
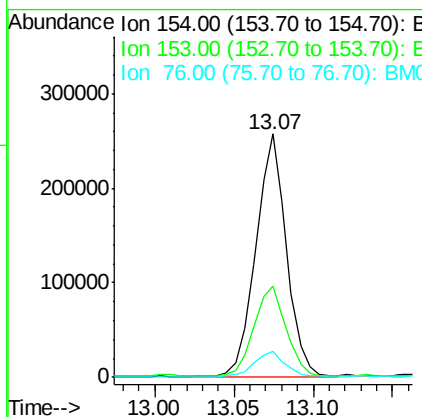
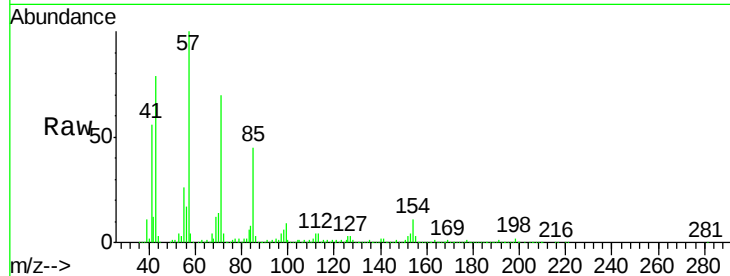
ClientSampleId :

F6A95

Tot Ion:	154	Resp:	345061
Ion Ratio	Lower	Upper	
154	100		
153	37.4	32.6	48.8
76	10.7	8.5	12.7

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#44

Dimethylphthalate

Concen: 4.451 ng/ul

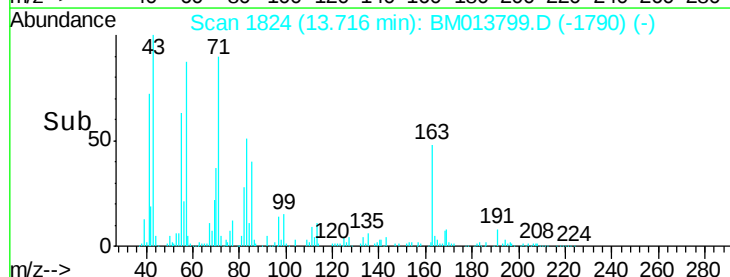
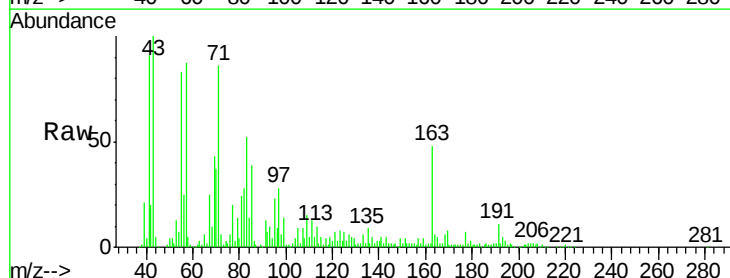
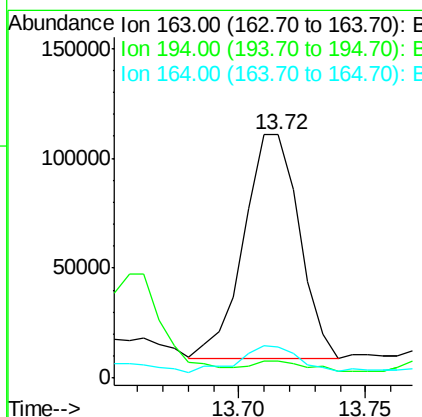
RT: 13.72 min Scan# 1824

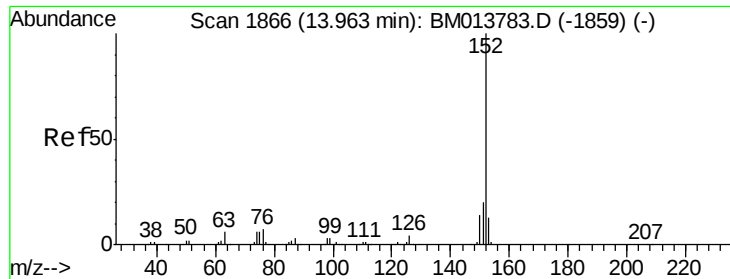
Delta R.T. 0.00 min

Lab File: BM013799.D

Acq: 25 Jan 2018 09:43

Tgt Ion:	163	Resp:	155177
Ion Ratio	Lower	Upper	
163	100		
194	7.3	3.5	5.3#
164	13.0	8.2	12.4#





#47

Acenaphthylene

Concen: 11.783 ng/ul

RT: 13.97 min Scan# 1867

Delta R.T. 0.01 min

Lab File: BM013799.D

Acq: 25 Jan 2018 09:43

Instrument :

BNA_M

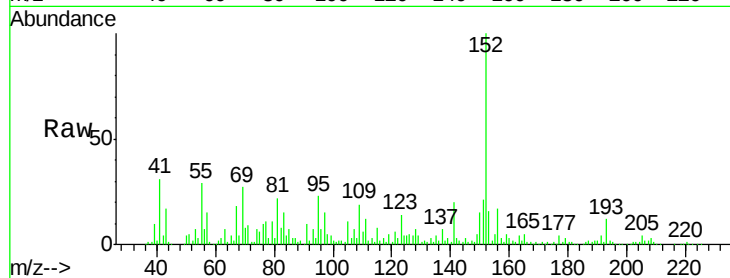
ClientSampleId :

F6A95

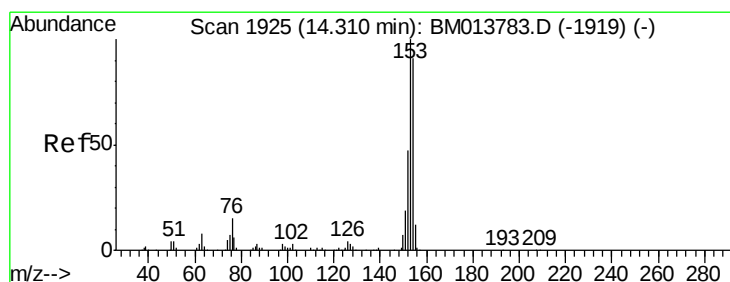
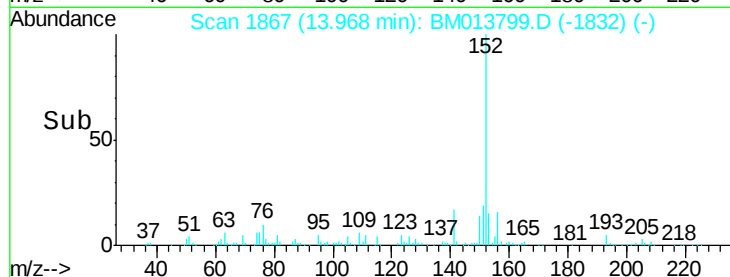
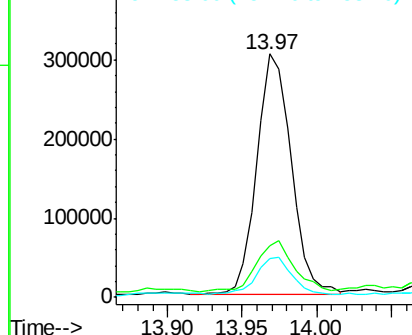
Tot Ion:	152	Resp:	487465
Ion Ratio	Lower	Upper	
152	100		
151	21.4	16.3	24.5
153	15.7	10.2	15.4#

Manual Integrations
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Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E



#49

Acenaphthene

Concen: 96.842 ng/ul

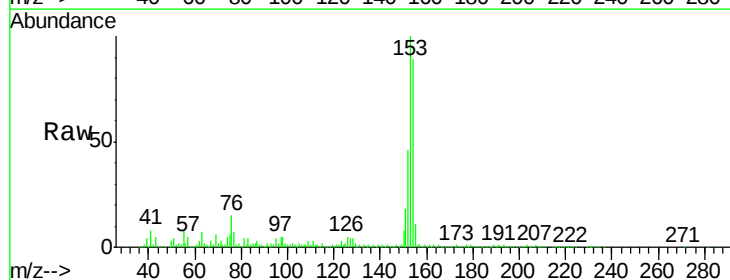
RT: 14.32 min Scan# 1927

Delta R.T. 0.01 min

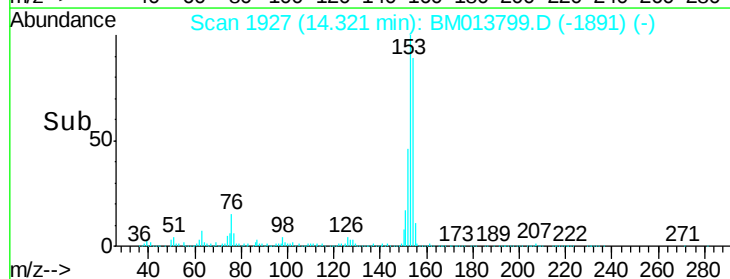
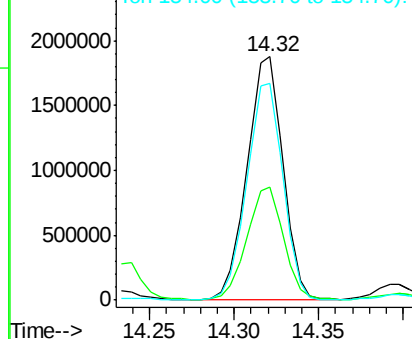
Lab File: BM013799.D

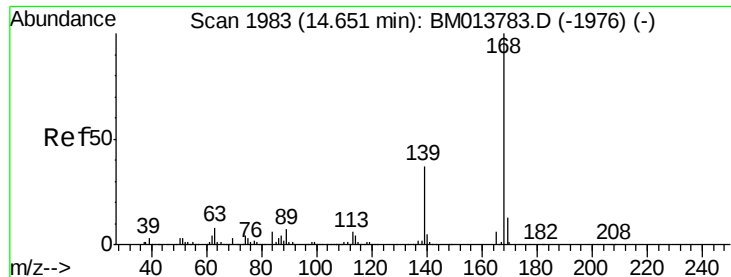
Acq: 25 Jan 2018 09:43

Tgt Ion:	153	Resp:	2774654
Ion Ratio	Lower	Upper	
153	100		
152	46.2	37.6	56.4
154	88.9	70.4	105.6



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





#53

Dibenzofuran

Concen: 51.524 ng/ul

RT: 14.66 min Scan# 1984

Delta R.T. 0.01 min

Lab File: BM013799.D

Acq: 25 Jan 2018 09:43

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ClientSampleId :

F6A95

Tot Ion:168 Resp: 2220818

Ion Ratio Lower Upper

168 100

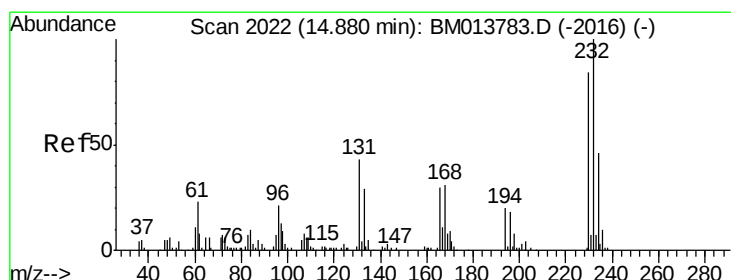
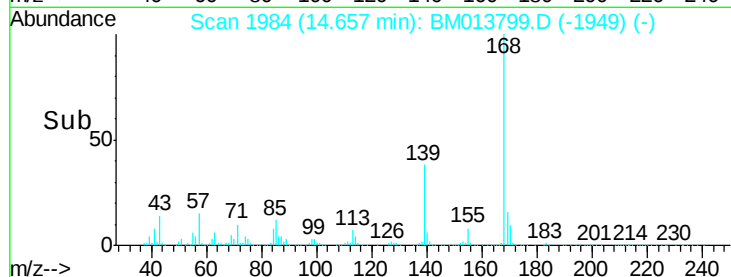
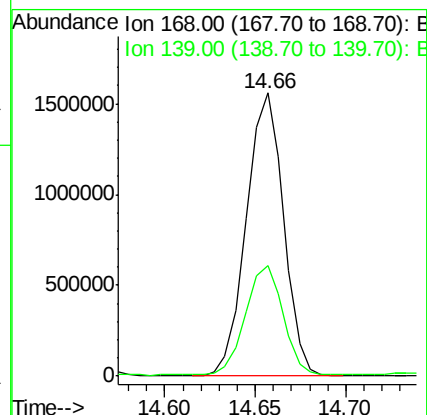
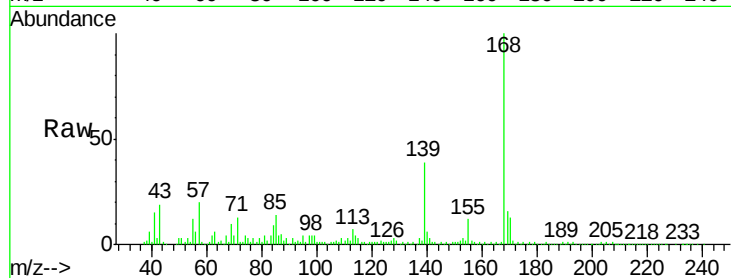
139 39.1 30.8 46.2

Manual Integrations

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#55

2,3,4,6-Tetrachlorophenol

Concen: 125.871 ng/ul

RT: 14.89 min Scan# 2024

Delta R.T. 0.01 min

Lab File: BM013799.D

Acq: 25 Jan 2018 09:43

Tgt Ion:232 Resp: 1136726

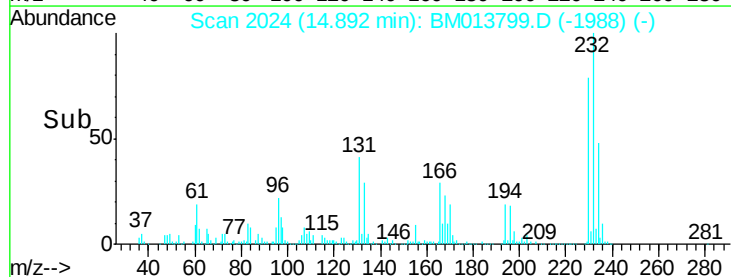
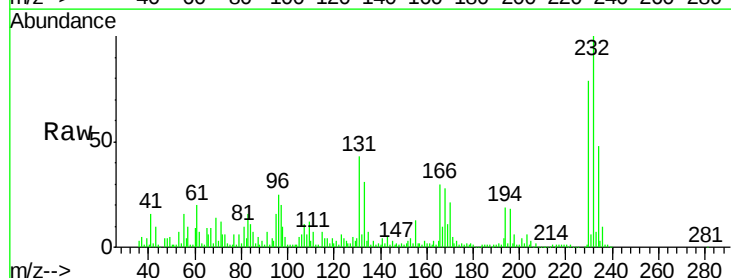
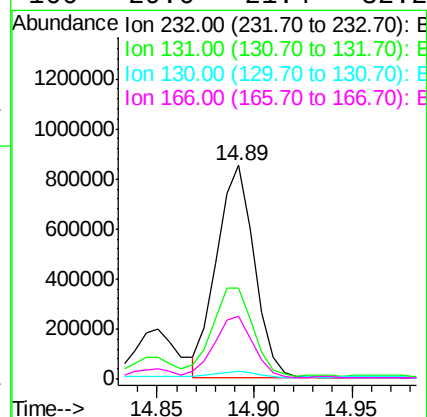
Ion Ratio Lower Upper

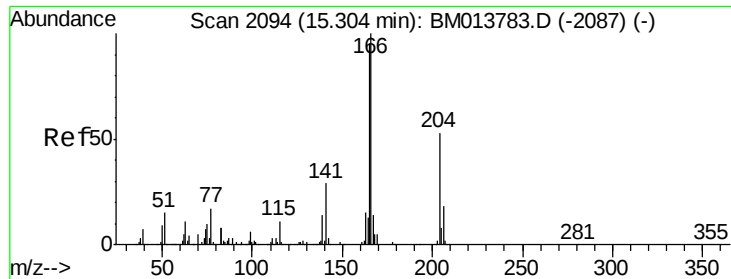
232 100

131 42.8 29.0 43.4

130 3.6 2.0 3.0#

166 29.6 21.4 32.2





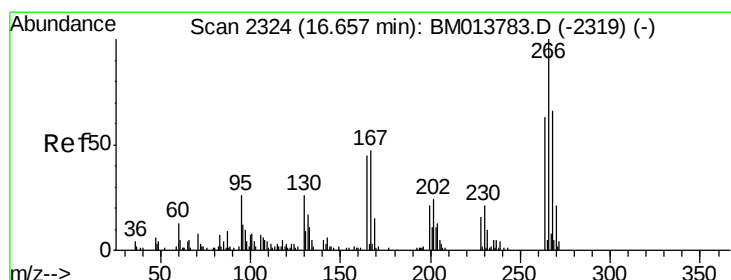
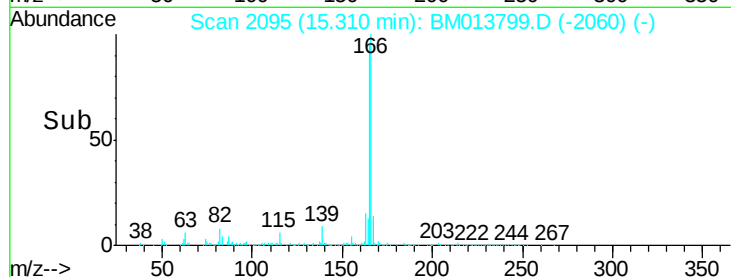
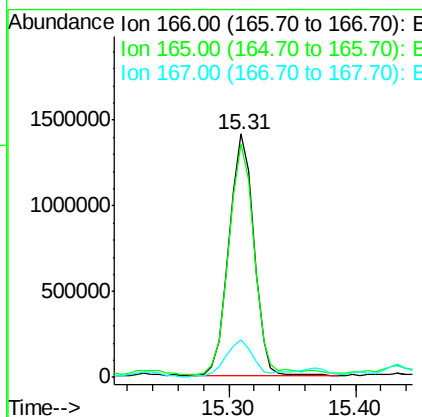
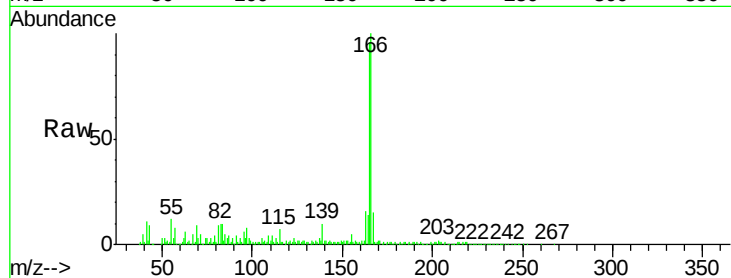
#58
 Fluorene
 Concen: 54.567 ng/ul
 RT: 15.31 min Scan# 2095
 Delta R.T. 0.01 min
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Tot Ion	Ratio	Lower	Upper
166	100		
165	96.0	77.9	116.9
167	15.4	10.6	16.0

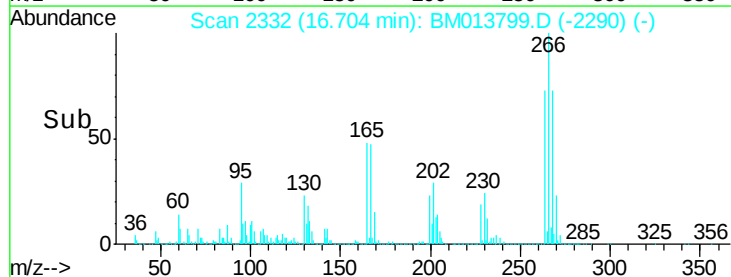
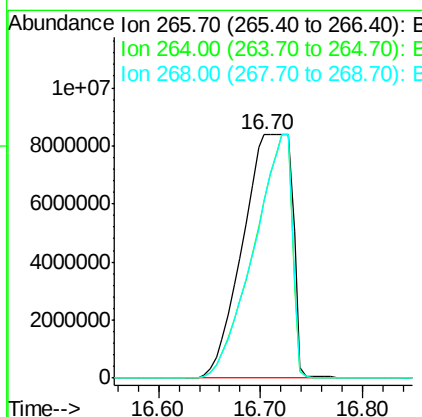
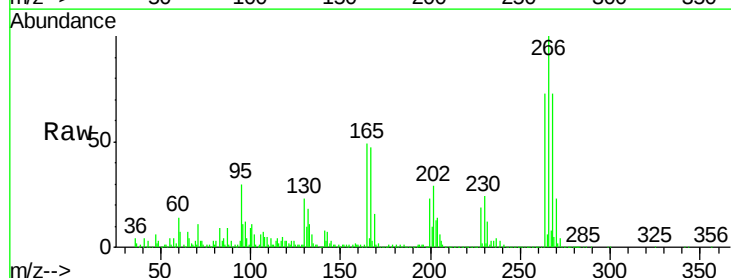
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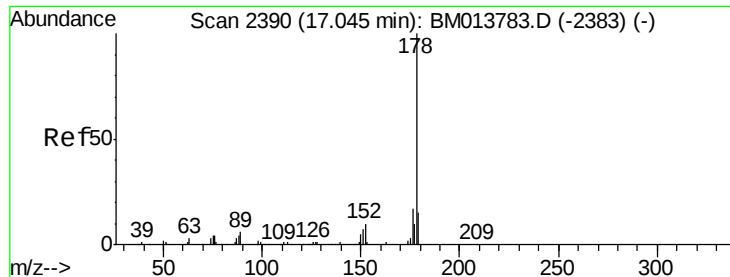
Sohil
 1/25/2018 5:36:24 PM



#68
 Pentachlorophenol
 Concen: 5026.875 ng/ul m
 RT: 16.70 min Scan# 2332
 Delta R.T. 0.05 min
 Lab File: BM013799.D
 Acq: 25 Jan 2018 09:43

Tgt Ion	Ratio	Lower	Upper
266	100		
264	72.7	49.3	73.9
268	72.7	52.6	78.8





#69

Phenanthrene

Concen: 267.551 ng/ul

RT: 17.07 min Scan# 2395

Delta R.T. 0.03 min

Lab File: BM013799.D

Acq: 25 Jan 2018 09:43

Instrument :

BNA_M

ClientSampled :

F6A95

Tot Ion:178 Resp:12290566

Ion Ratio Lower Upper

178 100

179 16.4 12.6 19.0

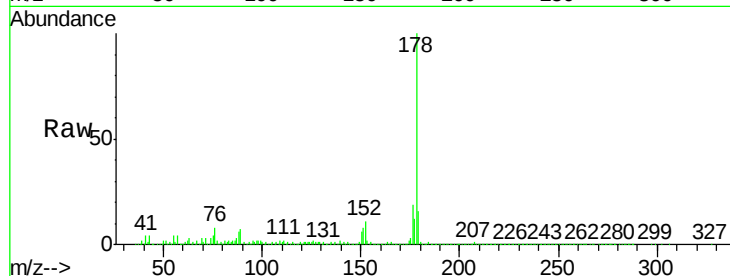
176 19.3 14.9 22.3

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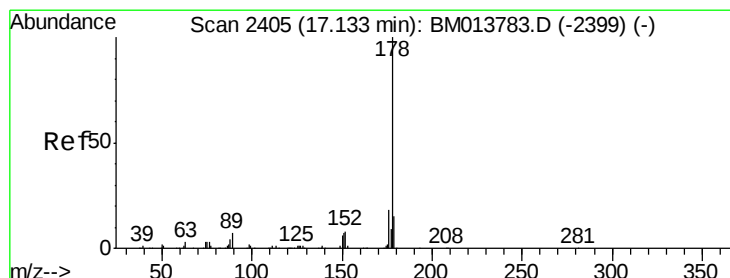
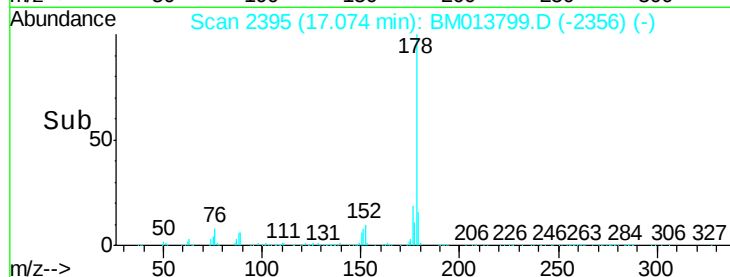
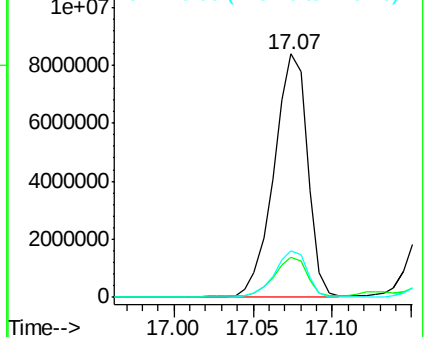
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Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



#71

Anthracene

Concen: 73.831 ng/ul

RT: 17.16 min Scan# 2409

Delta R.T. 0.02 min

Lab File: BM013799.D

Acq: 25 Jan 2018 09:43

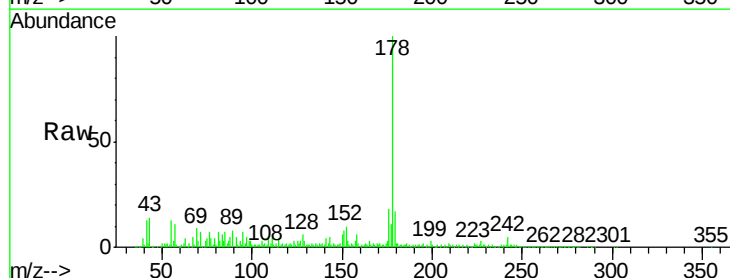
Tgt Ion:178 Resp: 3498255

Ion Ratio Lower Upper

178 100

179 17.5 11.7 17.5

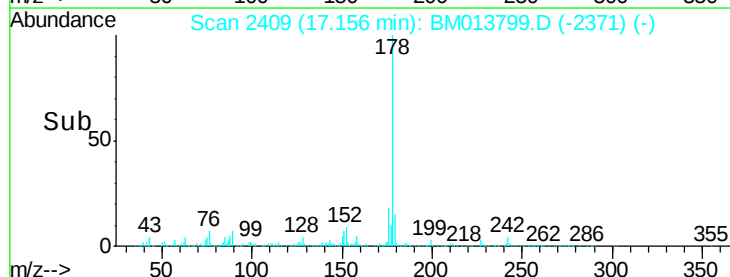
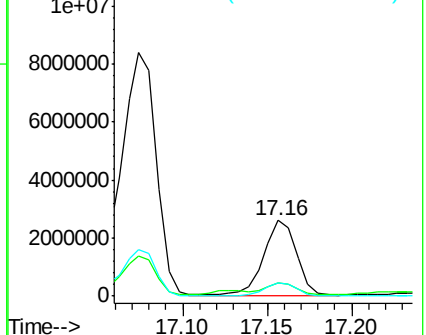
176 18.1 14.6 21.8

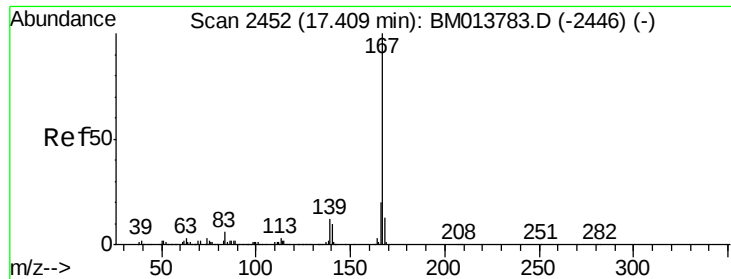


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#72

Carbazole

Concen: 19.672 ng/ul

RT: 17.43 min Scan# 2455

Delta R.T. 0.02 min

Lab File: BM013799.D

Acq: 25 Jan 2018 09:43

Instrument :

BNA_M

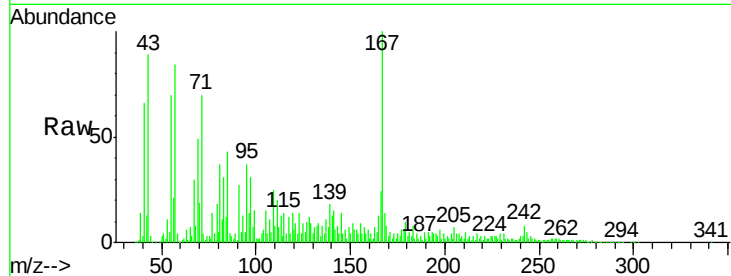
ClientSampleId :

F6A95

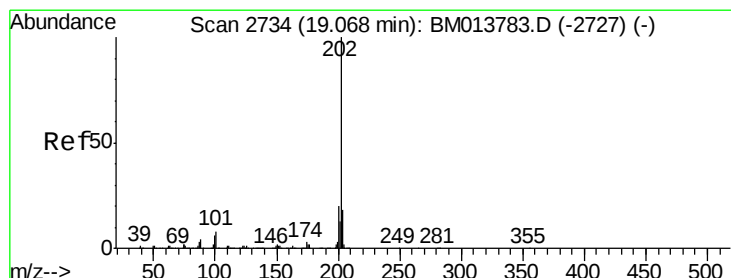
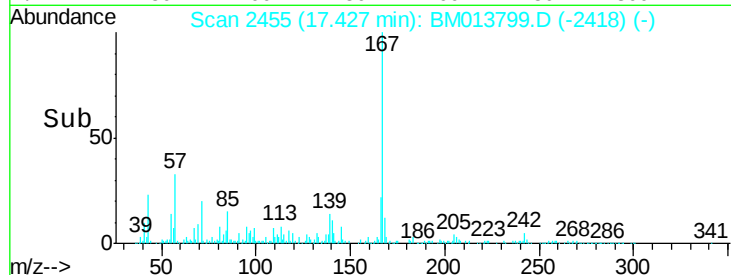
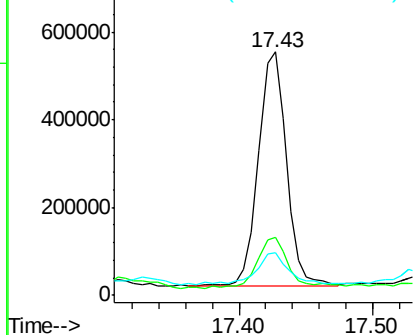
Tot Ion:	167	Resp:	769420
Ion Ratio	Lower	Upper	
167	100		
166	23.9	17.1	25.7
139	17.7	10.0	15.0#

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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



#74

Fluoranthene

Concen: 271.911 ng/ul

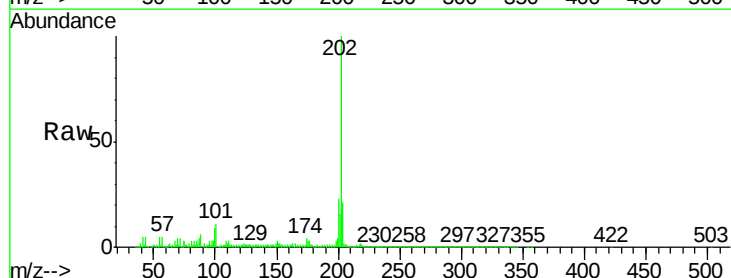
RT: 19.09 min Scan# 2738

Delta R.T. 0.02 min

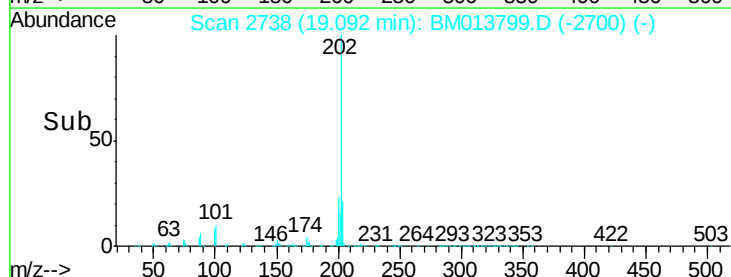
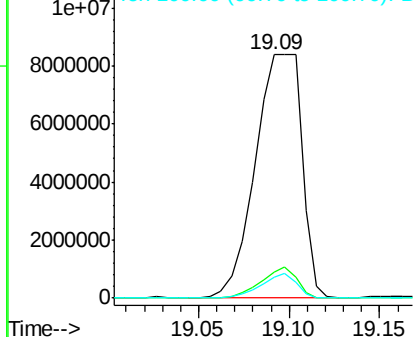
Lab File: BM013799.D

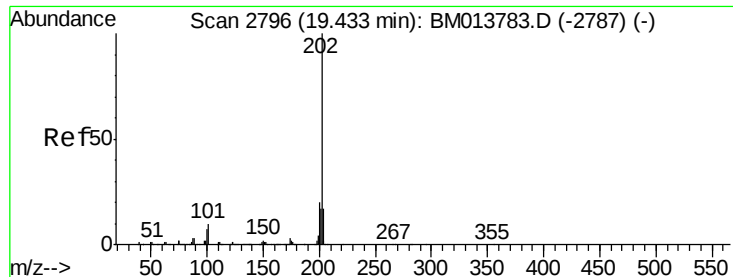
Acq: 25 Jan 2018 09:43

Tgt Ion:	202	Resp:	14910080
Ion Ratio	Lower	Upper	
202	100		
101	10.6	4.6	7.0#
100	8.6	3.4	5.2#



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





#77

Pvrene

Concen: 236.275 ng/ul

RT: 19.46 min Scan# 2800

Delta R.T. 0.02 min

Lab File: BM013799.D

Acq: 25 Jan 2018 09:43

Instrument :

BNA_M

ClientSampleId :

F6A95

Tot Ion:202 Resp:13269712

Ion Ratio Lower Upper

202 100

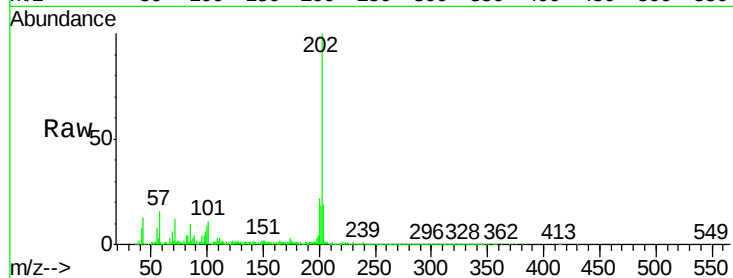
101 11.1 5.1 7.7#

100 9.5 4.9 7.3#

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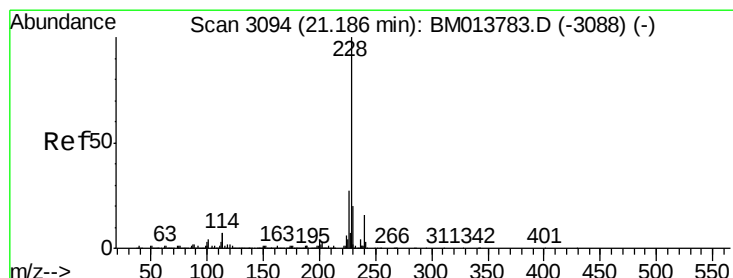
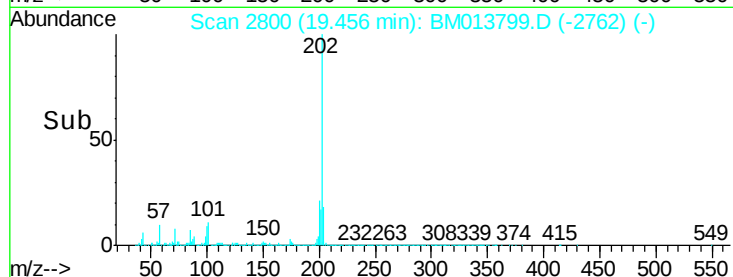
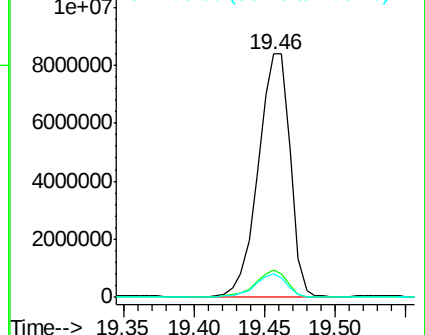
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Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B



#80

Benzo(a)anthracene

Concen: 41.705 ng/ul m

RT: 21.21 min Scan# 3098

Delta R.T. 0.02 min

Lab File: BM013799.D

Acq: 25 Jan 2018 09:43

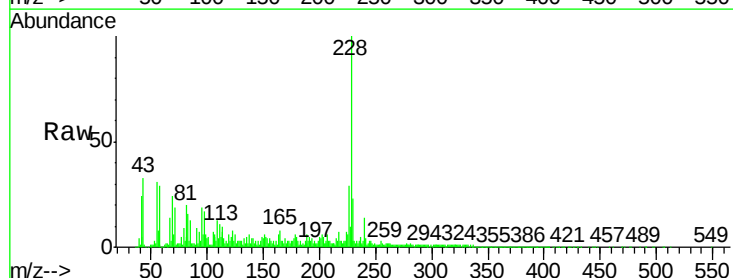
Tgt Ion:228 Resp: 2328046

Ion Ratio Lower Upper

228 100

229 23.3 15.4 23.0#

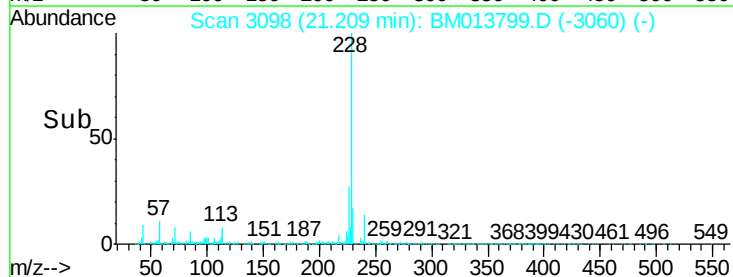
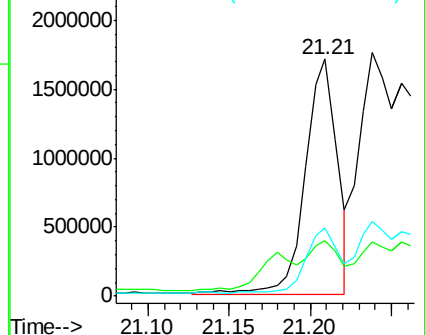
226 28.6 21.4 32.0

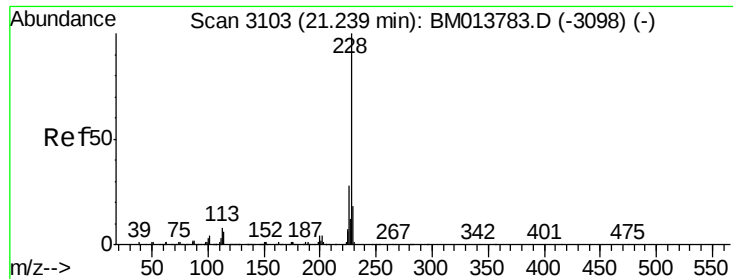


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E





#82

Chrysene

Concen: 76.190 ng/ul m

RT: 21.24 min Scan# 3103

Delta R.T. -0.00 min

Lab File: BM013799.D

Acq: 25 Jan 2018 09:43

Instrument :

BNA_M

ClientSampleId :

F6A95

Tot Ion:228 Resp: 3901689

Ion Ratio Lower Upper

228 100

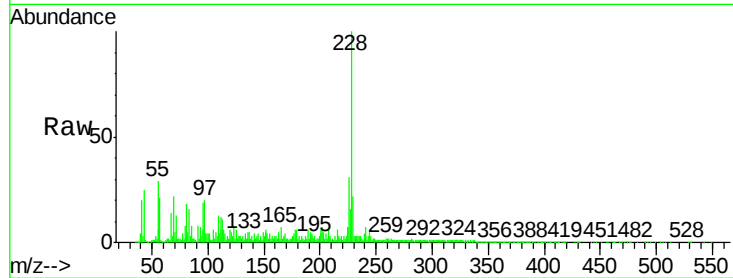
226 30.8 23.4 35.2

229 22.0 15.5 23.3

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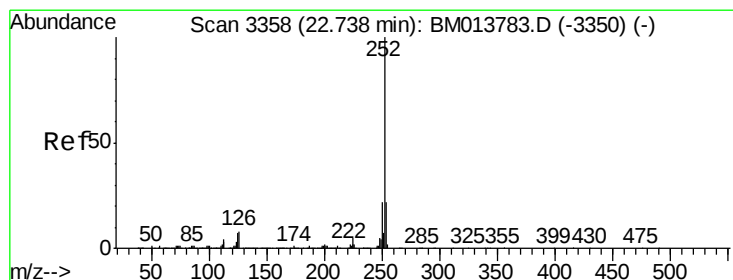
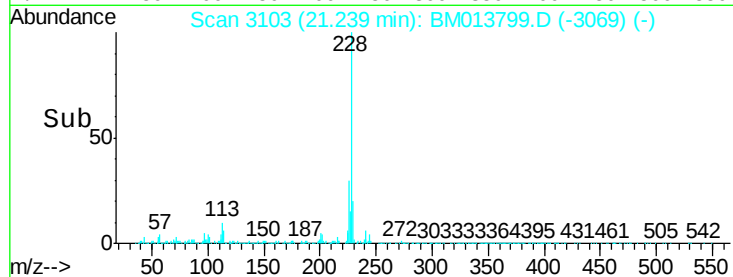
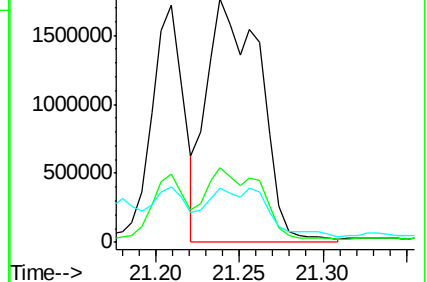
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Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#85

Benzo(b)fluoranthene

Concen: 127.613 ng/ul

RT: 22.79 min Scan# 3366

Delta R.T. 0.05 min

Lab File: BM013799.D

Acq: 25 Jan 2018 09:43

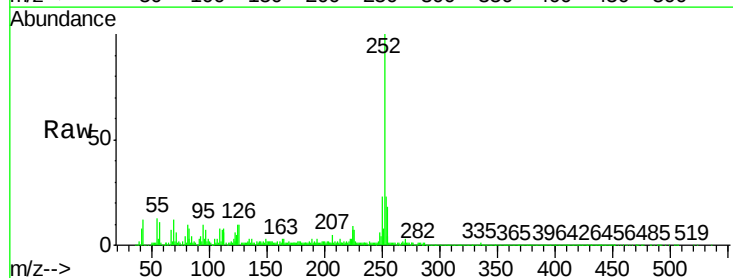
Tgt Ion:252 Resp: 7130831

Ion Ratio Lower Upper

252 100

253 22.8 17.9 26.9

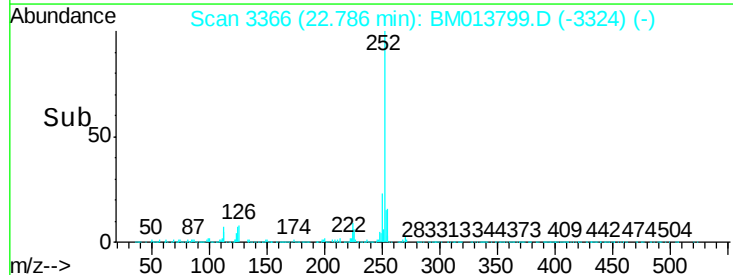
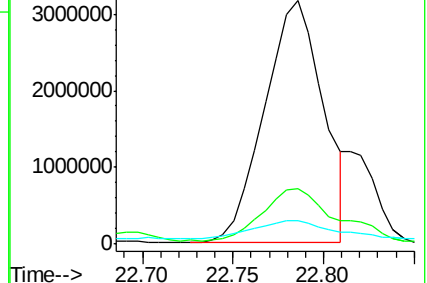
125 9.6 3.6 5.4#

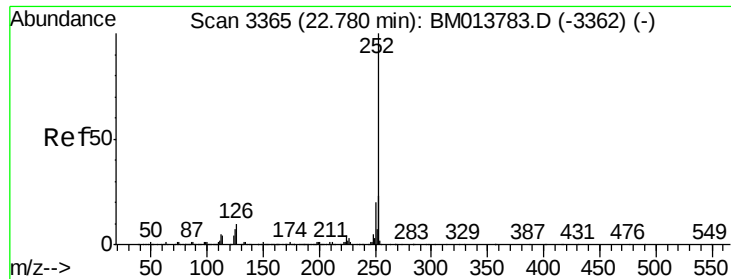


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





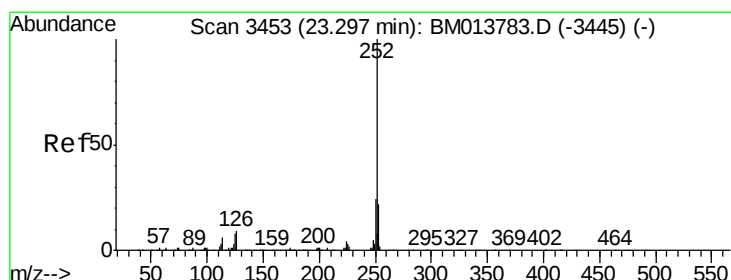
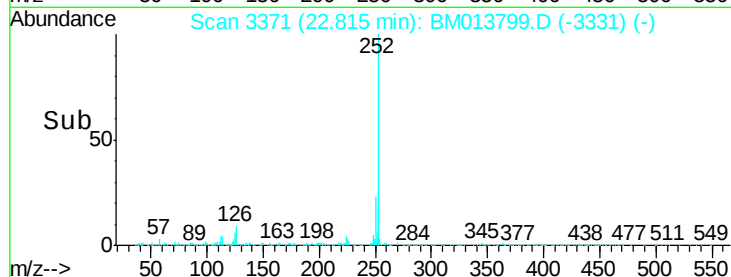
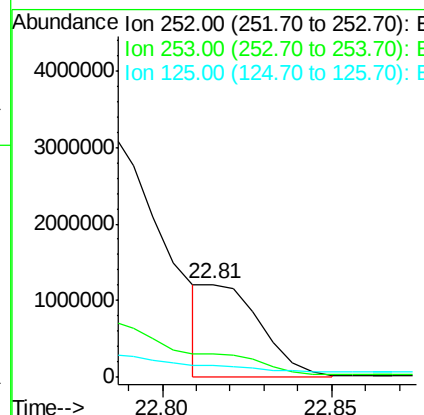
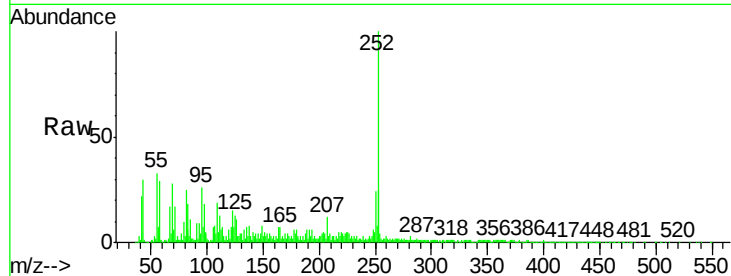
#86
Benzo(k)fluoranthene
Concen: 25.315 ng/ul m
RT: 22.81 min Scan# 3371
Delta R.T. 0.04 min
Lab File: BM013799.D
Acq: 25 Jan 2018 09:43

Instrument :
BNA_M
ClientSampleId :
F6A95

Tot Ion:252 Resp: 1367293
Ion Ratio Lower Upper
252 100
253 24.7 17.1 25.7
125 12.9 3.4 5.2#

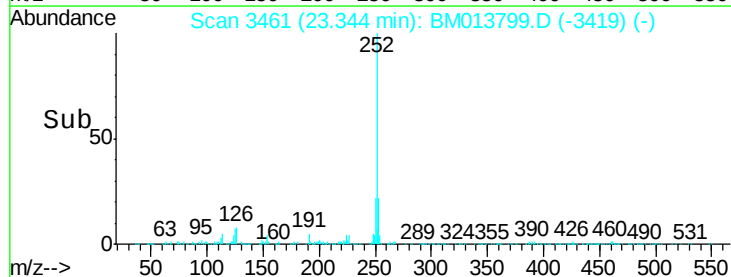
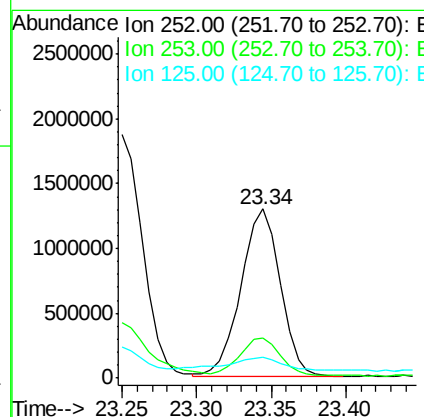
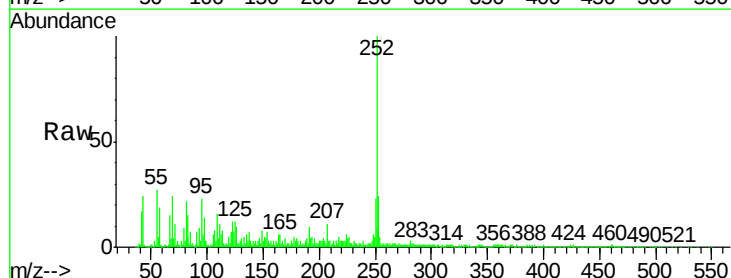
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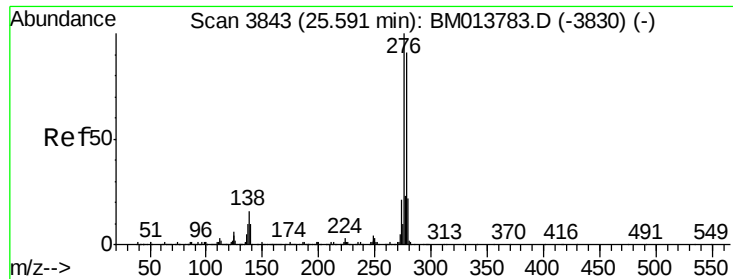
Sohil
1/25/2018 5:36:24 PM



#88
Benzo(a)pyrene
Concen: 44.632 ng/ul
RT: 23.34 min Scan# 3461
Delta R.T. 0.05 min
Lab File: BM013799.D
Acq: 25 Jan 2018 09:43

Tgt Ion:252 Resp: 2355980
Ion Ratio Lower Upper
252 100
253 24.1 18.2 27.2
125 12.2 4.0 6.0#





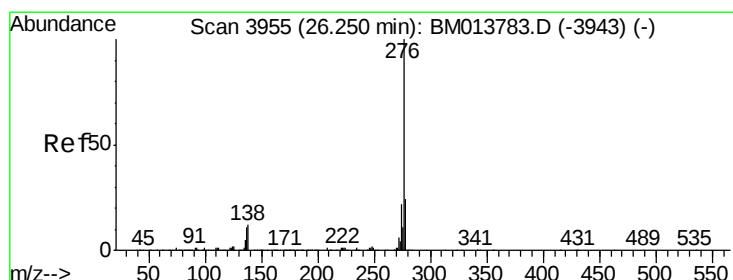
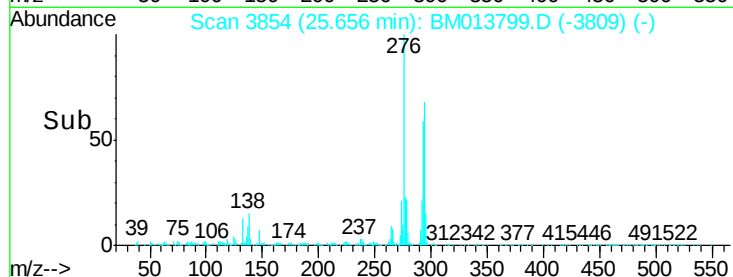
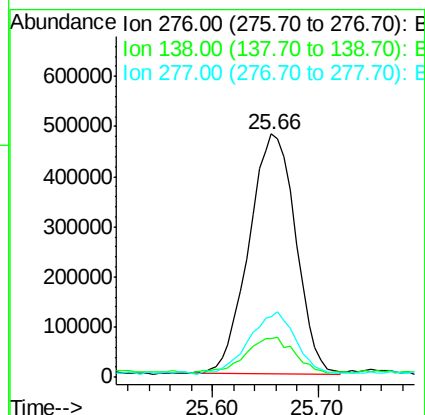
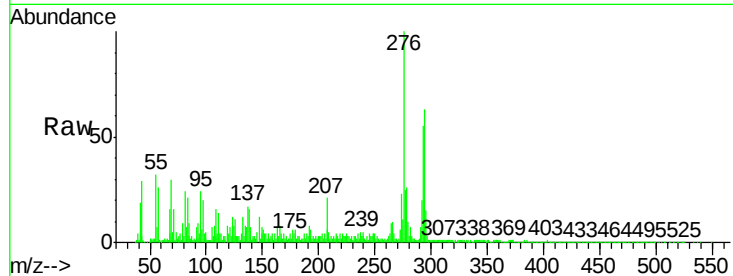
#89
Indeno(1,2,3-cd)pyrene
Concen: 23.609 ng/ul
RT: 25.66 min Scan# 3854
Delta R.T. 0.06 min
Lab File: BM013799.D
Acq: 25 Jan 2018 09:43

Instrument :
BNA_M
ClientSampleId :
F6A95

Tot Ion:276 Resp: 1471103
Ion Ratio Lower Upper
276 100
138 16.1 9.3 13.9#
277 24.9 19.9 29.9

Manual Integrations
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#91
Benzo(g,h,i)perylene
Concen: 25.158 ng/ul
RT: 26.33 min Scan# 3969
Delta R.T. 0.08 min
Lab File: BM013799.D
Acq: 25 Jan 2018 09:43

Tgt Ion:276 Resp: 1290198
Ion Ratio Lower Upper
276 100
138 16.4 8.5 12.7#
277 25.5 18.6 28.0

