

Data Path : Z:\HPCHEM1\BNA M\DATA\BM121517\
 Data File : BM013467.D
 Acq On : 16 Dec 2017 08:13
 Operator : SJ/JU
 Sample : I6776-06 5X
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 F9A58

Manual Integrations
 APPROVED

Sohil
 12/18/2017 2:09:54 PM

Quant Time: Dec 25 00:57:15 2017
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM113017.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Sat Dec 16 00:23:08 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.67	152	217080	20.00	ng/ul	0.00
18) Naphthalene-d8	10.46	136	978917	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.32	164	572533	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.09	188	1253917	20.00	ng/ul	0.02
75) Chrysene-d12	21.27	240	1202572	20.00	ng/ul	0.01
83) Perylene-d12	23.49	264	930171	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.22	96	3468	0.79	ng/uL	0.00
5) Phenol-d5	6.85	99	108010	5.75	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.02	67	62428	5.83	ng/ul	0.00
9) 2-Chlorophenol-d4	7.21	132	83791	5.71	ng/ul	0.00
13) 4-Methylphenol-d8	8.38	113	90960	5.67	ng/ul	0.00
19) Nitrobenzene-d5	8.83	128	48004	6.18	ng/ul	0.00
22) 2-Nitrophenol-d4	9.55	143	50068	6.03	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.08	165	93739	5.47	ng/ul	0.00
29) 4-Chloroaniline-d4	10.60	131	83493	5.31	ng/ul	0.00
43) Dimethylphthalate-d6	13.74	166	295519	5.80	ng/ul	0.00
46) Acenaphthylene-d8	14.01	160	368668	5.86	ng/ul	0.00
51) 4-Nitrophenol-d4	14.55	143	45207	5.11	ng/ul	0.02
57) Fluorene-d10	15.32	176	253424	5.78	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.47	200	27366	3.47	ng/ul	0.02
70) Anthracene-d10	17.19	188	384098	6.12	ng/ul	0.02
76) Pyrene-d10	19.47	212	438162	7.31	ng/ul	0.01
87) Benzo(a)pyrene-d12	23.34	264	293853	6.20	ng/ul	0.00

Target Compounds

					Ovalue
28) Naphthalene	10.51	128	18919601m	375.656	ng/ul
34) 2-Methylnaphthalene	12.13	142	6032074	159.326	ng/ul 94
40) 1,1'-Biphenyl	13.15	154	1977671	40.872	ng/ul 99
47) Acenaphthylene	14.04	152	494539	8.500	ng/ul# 92
49) Acenaphthene	14.40	153	16944218	427.512	ng/ul 88
53) Dibenzofuran	14.73	168	13998100	239.238	ng/ul 89
58) Fluorene	15.39	166	14540660	300.398	ng/ul 97
68) Pentachlorophenol	16.74	266	130878	13.921	ng/ul 97
69) Phenanthrene	17.12	178	33721064m	473.362	ng/ul
71) Anthracene	17.23	178	12428901	170.688	ng/ul# 89
72) Carbazole	17.48	167	2823666	45.083	ng/ul 99
74) Fluoranthene	19.14	202	30164762m	345.532	ng/ul
77) Pyrene	19.50	202	25917833m	354.749	ng/ul
80) Benzo(a)anthracene	21.26	228	9241661	121.122	ng/ul 99
82) Chrysene	21.31	228	8407775	118.775	ng/ul 98
85) Benzo(b)fluoranthene	22.83	252	4139411	66.015	ng/ul# 98
86) Benzo(k)fluoranthene	22.86	252	1462470m	24.784	ng/ul
88) Benzo(a)pyrene	23.39	252	2047733	36.354	ng/ul# 97
89) Indeno(1,2,3-cd)pyrene	25.71	276	645948	11.558	ng/ul# 96
90) Dibenzo(a,h)anthracene	25.72	278	173557	3.647	ng/ul# 96
91) Benzo(a,h,i)perylene	26.39	276	482965	10.955	ng/ul# 91

Data Path : Z:\HPCHEM1\BNA M\DATA\BM121517\
Data File : BM013467.D
Acq On : 16 Dec 2017 08:13
Operator : SJ/JU
Sample : I6776-06 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
F9A58

Manual Integrations
APPROVED

Sohil
12/18/2017 2:09:54 PM

Quant Time: Dec 25 00:57:15 2017
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM113017.M
Quant Title : SVOA CALIBRATION
QLast Update : Sat Dec 16 00:23:08 2017
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
--------------------	------	------	----------	------	-------	----------

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

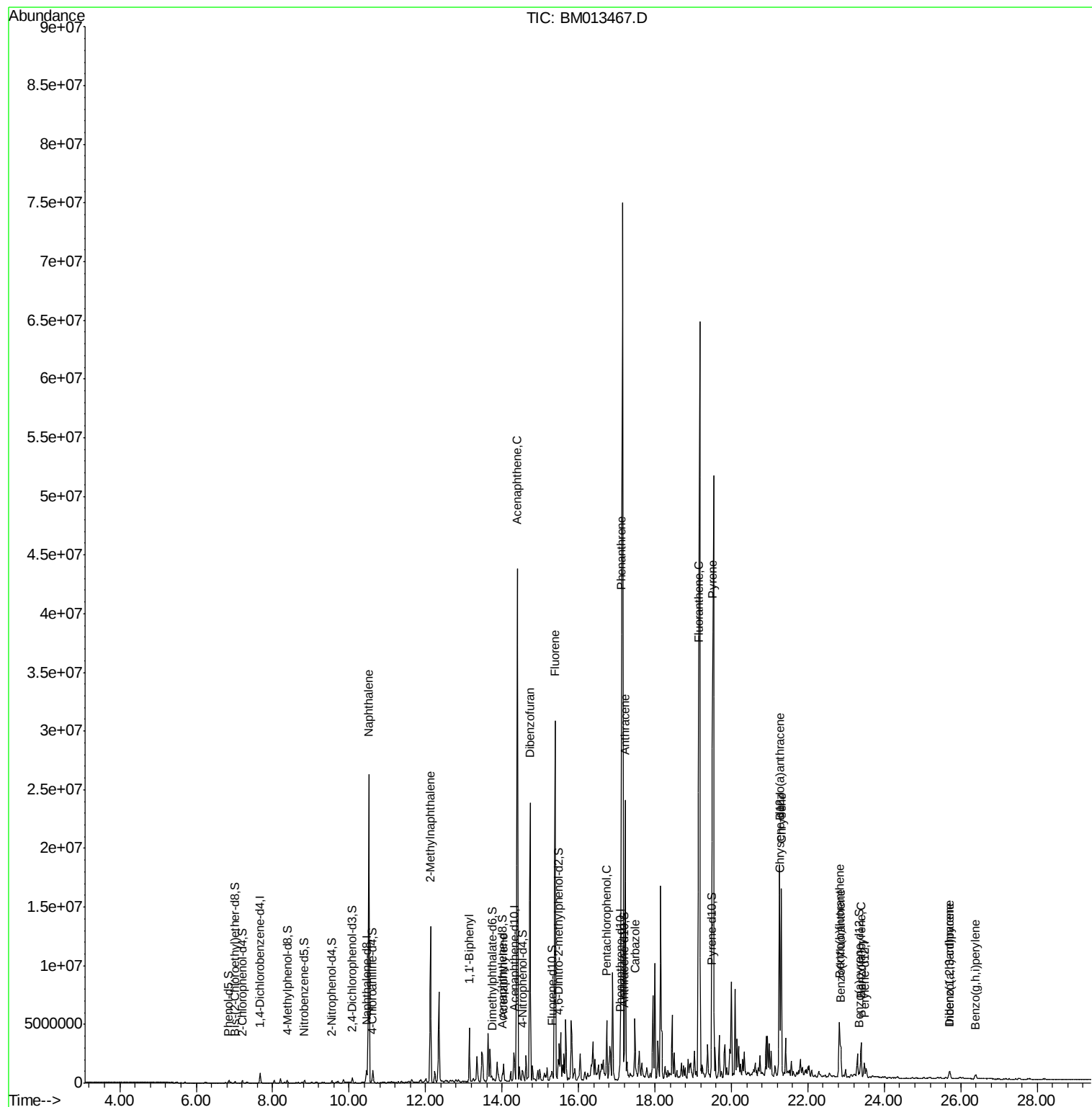
Data Path : Z:\HPCHEM1\BNA M\DATA\BM121517\
Data File : BM013467.D
Acq On : 16 Dec 2017 08:13
Operator : SJ/JU
Sample : I6776-06 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

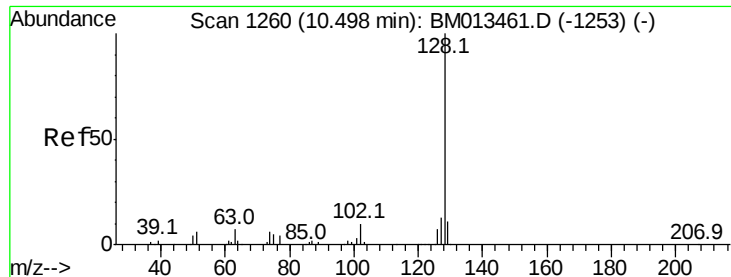
Instrument :
BNA_M
ClientSampleId :
F9A58

Manual Integrations
APPROVED

Sohil
12/18/2017 2:09:54 PM

Quant Time: Dec 25 00:57:15 2017
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM113017.M
Quant Title : SVOA CALIBRATION
QLast Update : Sat Dec 16 00:23:08 2017
Response via : Initial Calibration





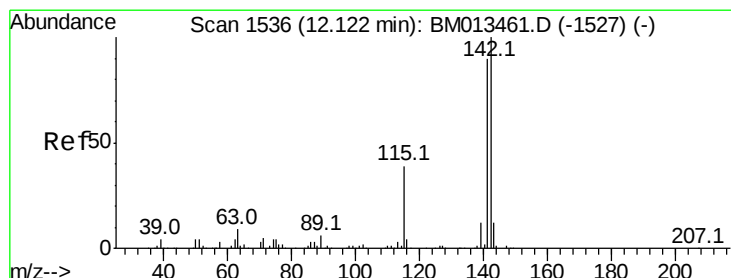
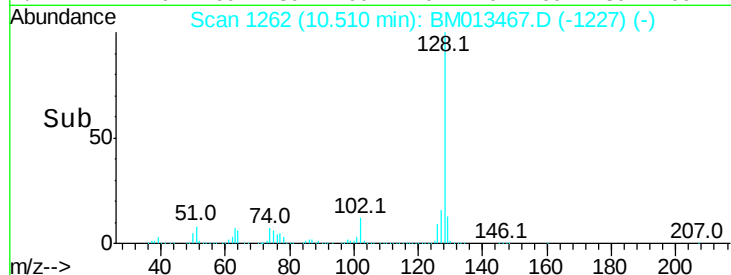
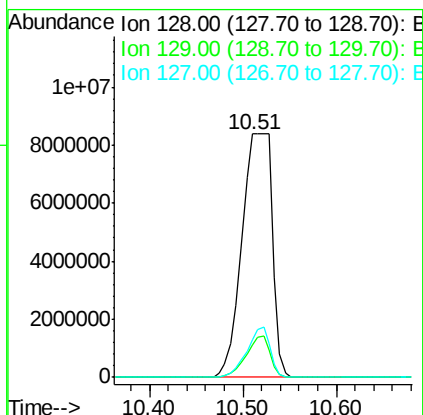
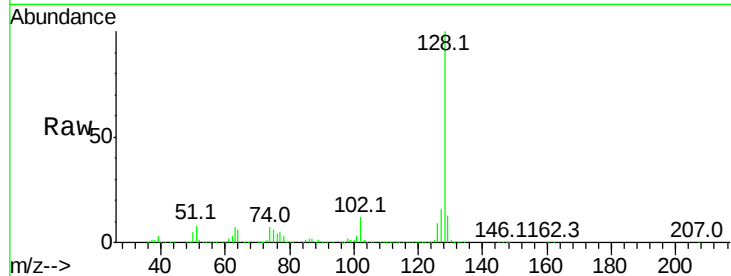
#28
Naphthalene
Concen: 375.656 ng/ul m
RT: 10.51 min Scan# 1262
Delta R.T. 0.01 min
Lab File: BM013467.D
Acq: 16 Dec 2017 08:13

Instrument :
BNA_M
ClientSampleId :
F9A58

Tot Ion:128 Resp:18919601
Ion Ratio Lower Upper
128 100
129 13.3 8.8 13.2#
127 15.6 10.6 16.0

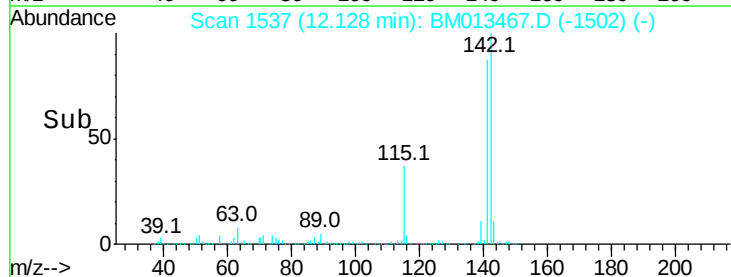
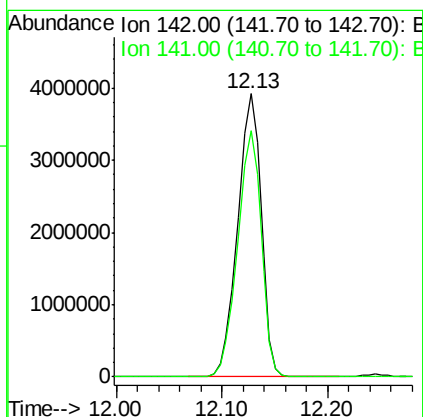
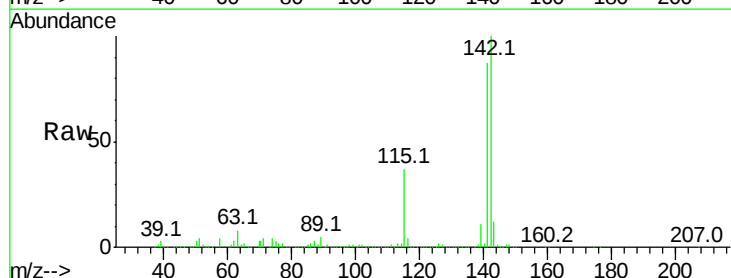
Manual Integrations
APPROVED

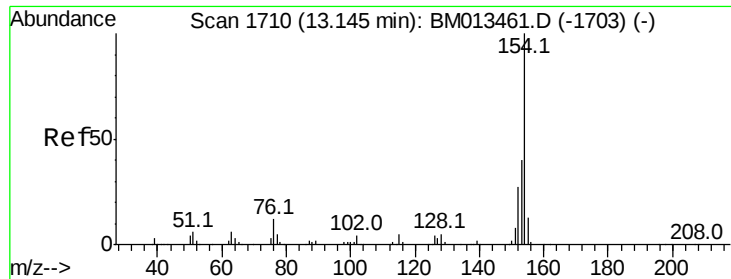
Sohil
12/18/2017 2:09:54 PM



#34
2-Methylnaphthalene
Concen: 159.326 ng/ul
RT: 12.13 min Scan# 1537
Delta R.T. 0.01 min
Lab File: BM013467.D
Acq: 16 Dec 2017 08:13

Tgt Ion:142 Resp: 6032074
Ion Ratio Lower Upper
142 100
141 87.2 74.1 111.1





#40

1,1'-Biphenyl

Concen: 40.872 ng/ul

RT: 13.15 min Scan# 1710

Delta R.T. -0.00 min

Lab File: BM013467.D

Acq: 16 Dec 2017 08:13

Instrument :

BNA_M

ClientSampleId :

F9A58

Tot Ion:154 Resp: 1977671

Ion Ratio Lower Upper

154 100

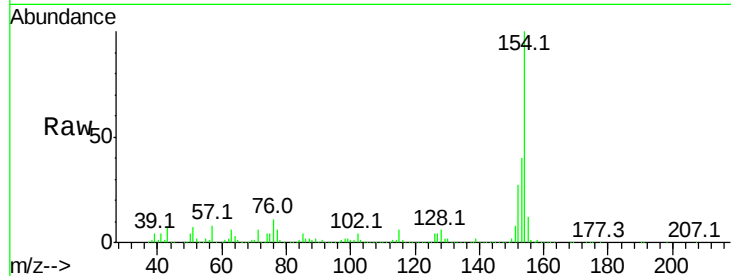
153 40.1 32.6 48.8

76 11.4 8.5 12.7

Manual Integrations
APPROVED

Sohil

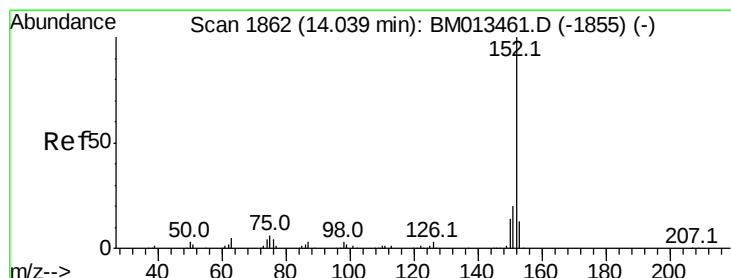
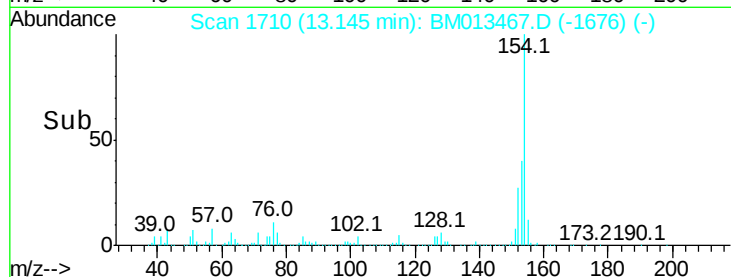
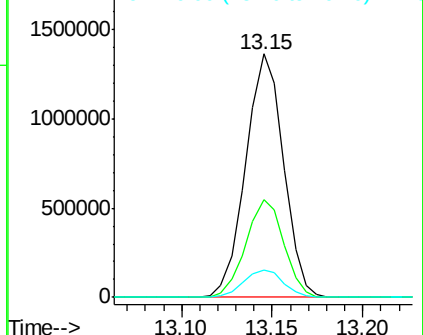
12/18/2017 2:09:54 PM



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BM



#47

Acenaphthylene

Concen: 8.500 ng/ul

RT: 14.04 min Scan# 1862

Delta R.T. -0.00 min

Lab File: BM013467.D

Acq: 16 Dec 2017 08:13

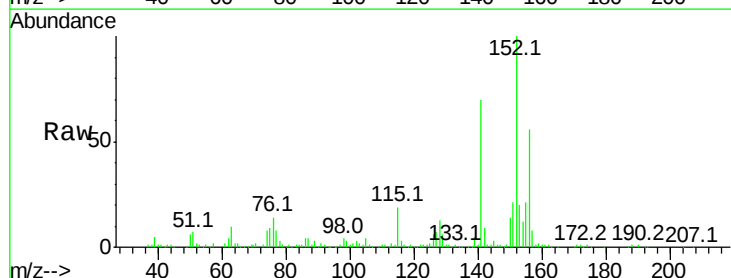
Tgt Ion:152 Resp: 494539

Ion Ratio Lower Upper

152 100

151 21.4 16.3 24.5

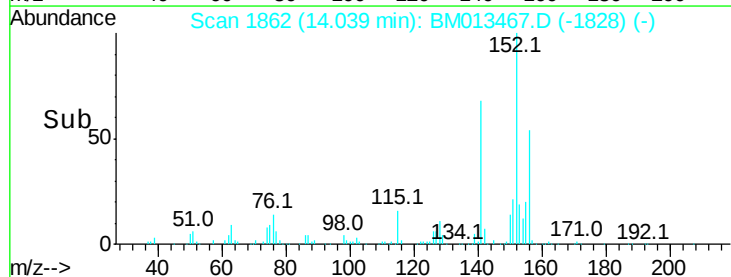
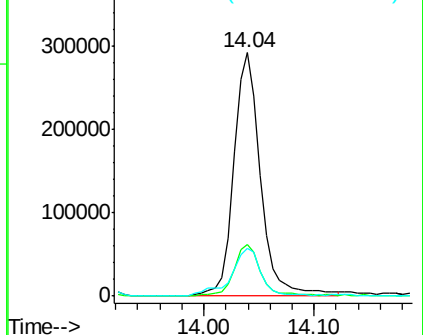
153 19.8 10.2 15.4#

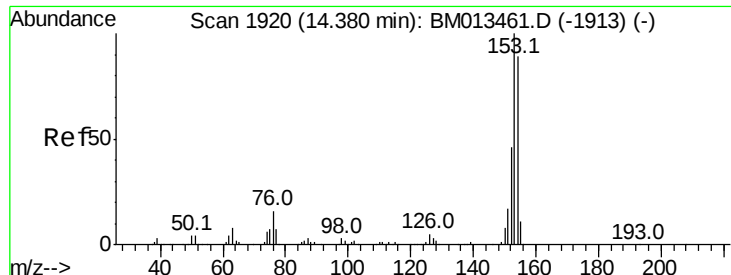


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#49

Acenaphthene

Concen: 427.512 ng/ul

RT: 14.40 min Scan# 1923

Delta R.T. 0.02 min

Lab File: BM013467.D

Acq: 16 Dec 2017 08:13

Instrument :

BNA_M

ClientSampled :

F9A58

Tot Ion:153 Resp:16944218

Ion Ratio Lower Upper

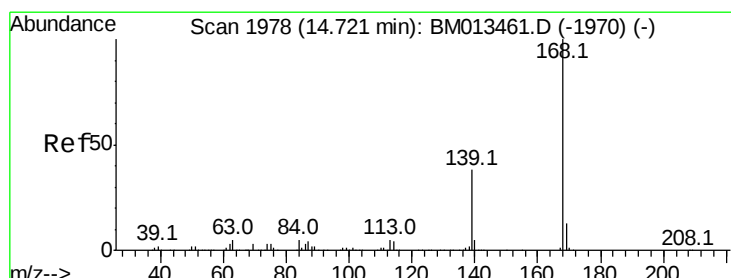
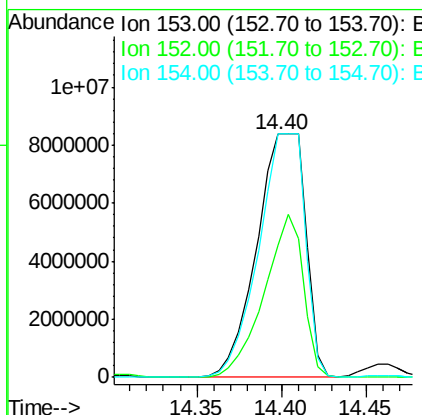
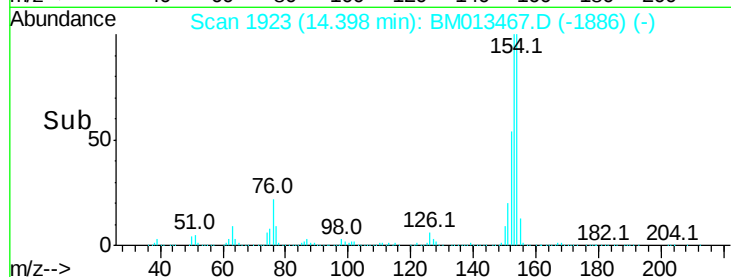
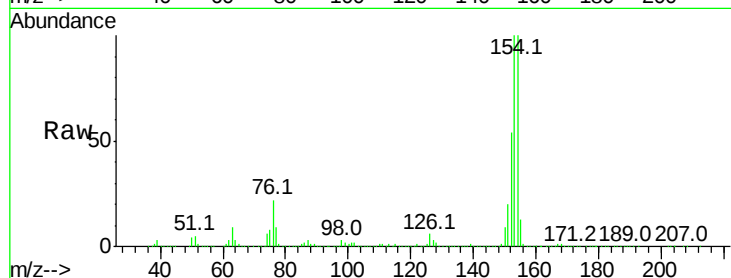
153 100

152 54.2 37.6 56.4

154 100.0 70.4 105.6

Manual Integrations
APPROVED

Sohil
12/18/2017 2:09:54 PM



#53

Dibenzofuran

Concen: 239.238 ng/ul

RT: 14.73 min Scan# 1980

Delta R.T. 0.01 min

Lab File: BM013467.D

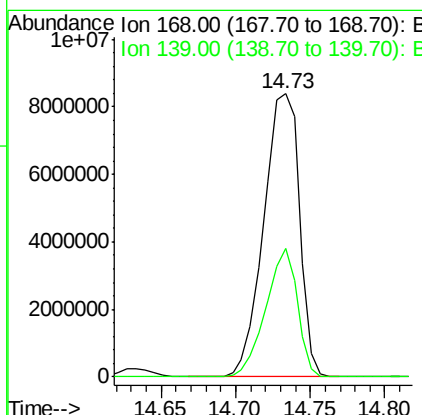
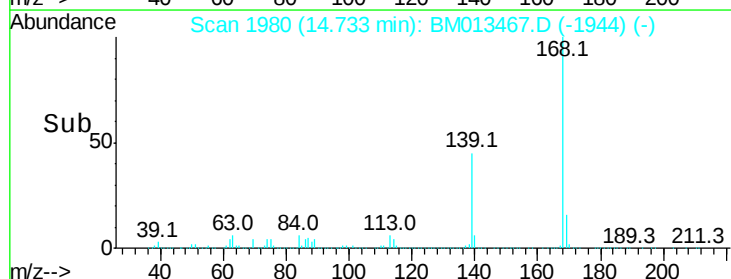
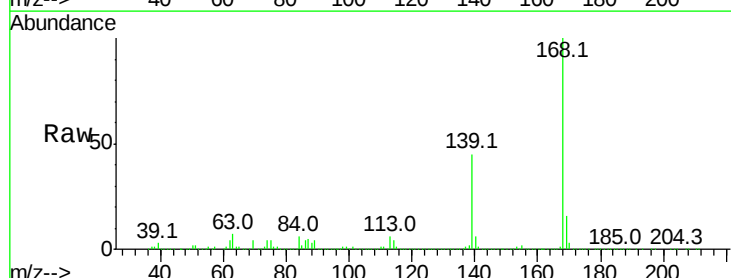
Acq: 16 Dec 2017 08:13

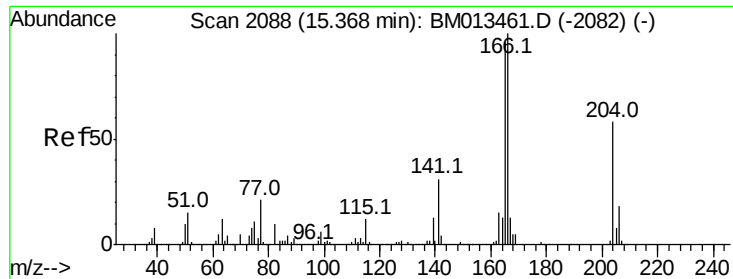
Tgt Ion:168 Resp:13998100

Ion Ratio Lower Upper

168 100

139 45.3 30.8 46.2





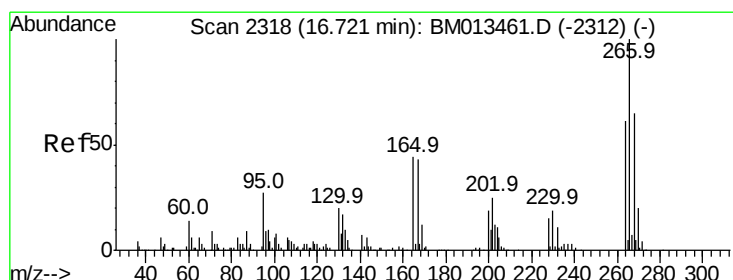
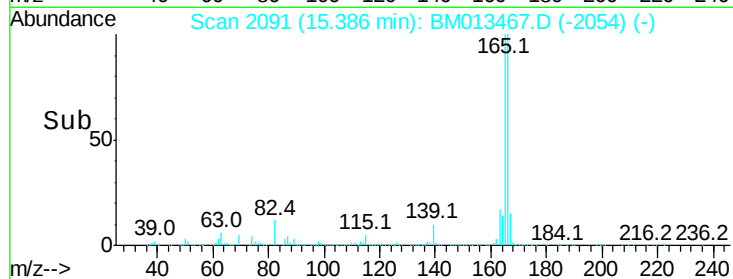
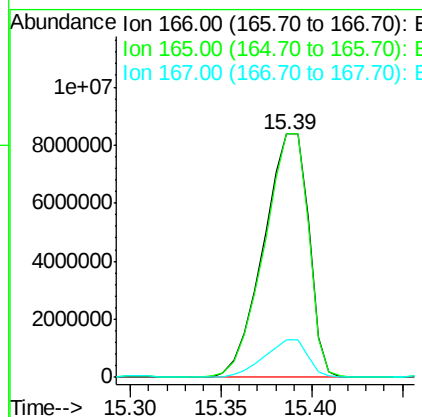
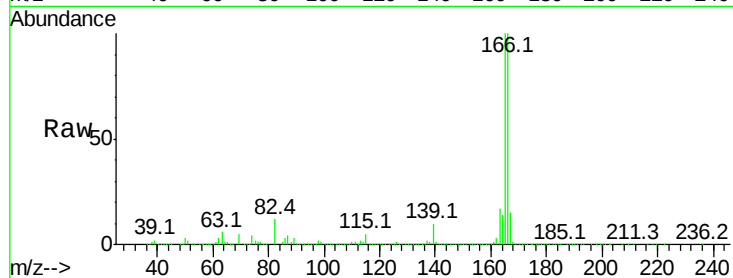
#58
 Fluorene
 Concen: 300.398 ng/ul
 RT: 15.39 min Scan# 2091
 Delta R.T. 0.02 min
 Lab File: BM013467.D
 Acq: 16 Dec 2017 08:13

Instrument :
 BNA_M
 ClientSampleId :
 F9A58

Tot Ion:166 Resp:14540660
 Ion Ratio Lower Upper
 166 100
 165 100.0 77.9 116.9
 167 15.3 10.6 16.0

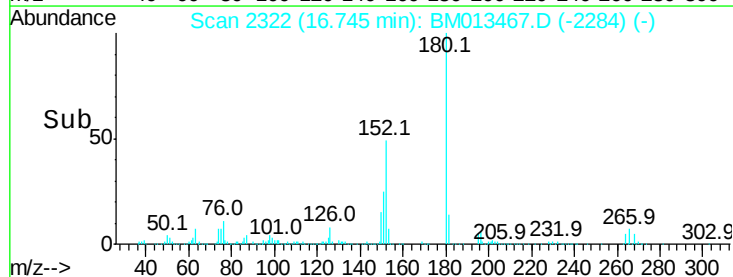
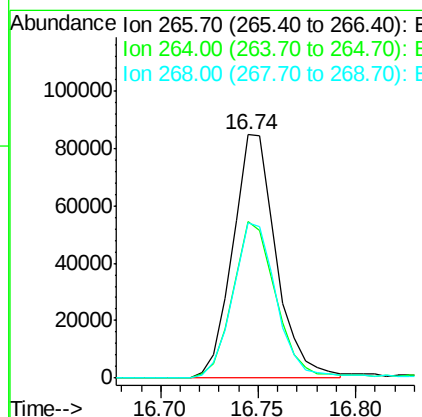
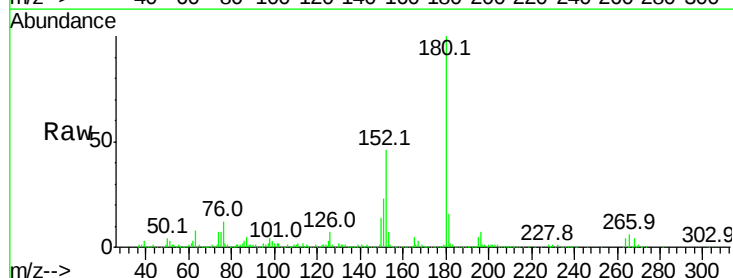
Manual Integrations
 APPROVED

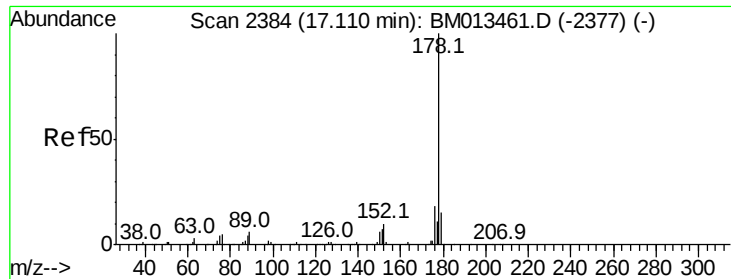
Sohil
 12/18/2017 2:09:54 PM



#68
 Pentachlorophenol
 Concen: 13.921 ng/ul
 RT: 16.74 min Scan# 2322
 Delta R.T. 0.02 min
 Lab File: BM013467.D
 Acq: 16 Dec 2017 08:13

Tgt Ion:266 Resp: 130878
 Ion Ratio Lower Upper
 266 100
 264 64.1 49.3 73.9
 268 63.8 52.6 78.8





#69

Phenanthrene

Concen: 473.362 ng/ul m

RT: 17.12 min Scan# 2386

Delta R.T. 0.01 min

Lab File: BM013467.D

Acq: 16 Dec 2017 08:13

Instrument :

BNA_M

ClientSampled :

F9A58

Tot Ion:178 Resp:33721064

Ion Ratio Lower Upper

178 100

179 22.6 12.6 19.0#

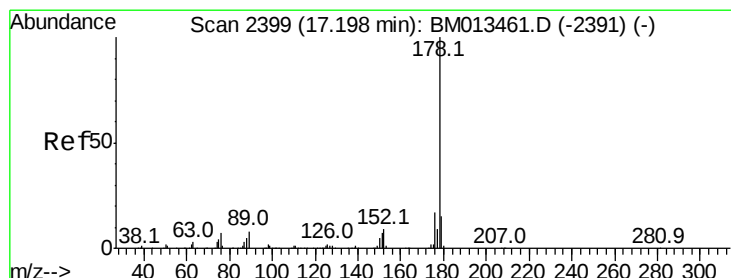
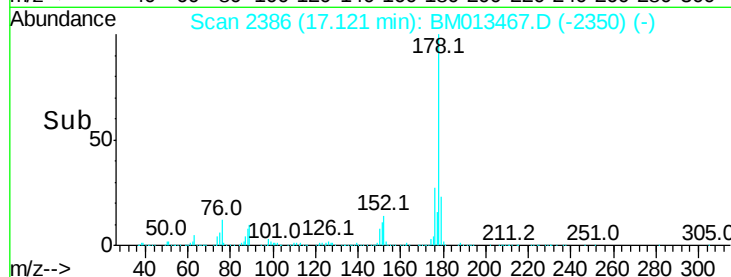
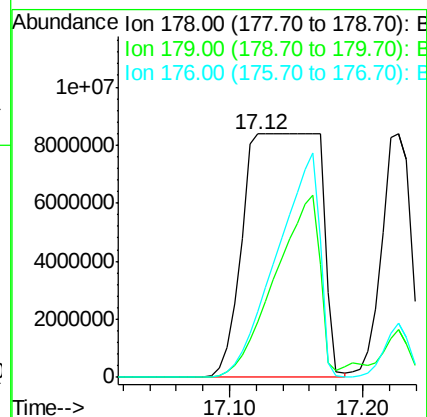
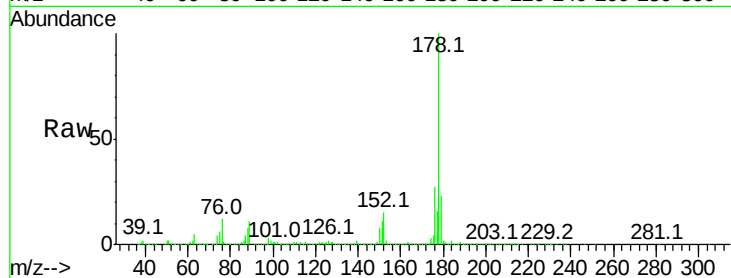
176 26.7 14.9 22.3#

Manual Integrations

APPROVED

Sohil

12/18/2017 2:09:54 PM



#71

Anthracene

Concen: 170.688 ng/ul

RT: 17.23 min Scan# 2404

Delta R.T. 0.02 min

Lab File: BM013467.D

Acq: 16 Dec 2017 08:13

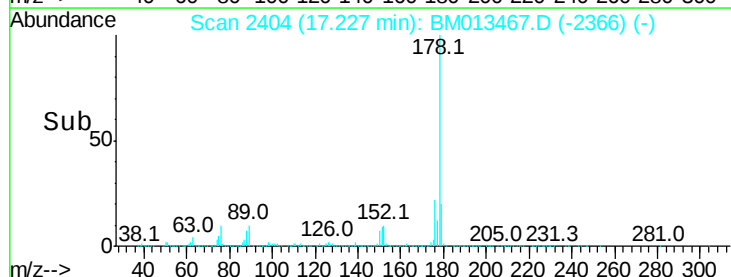
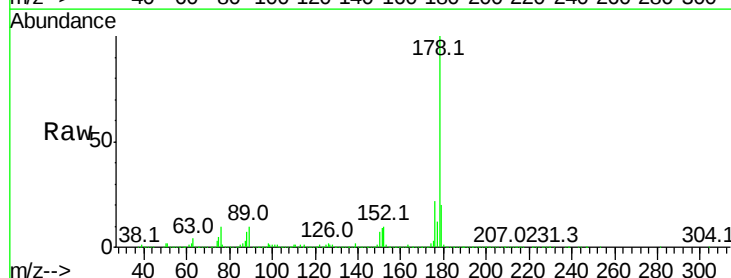
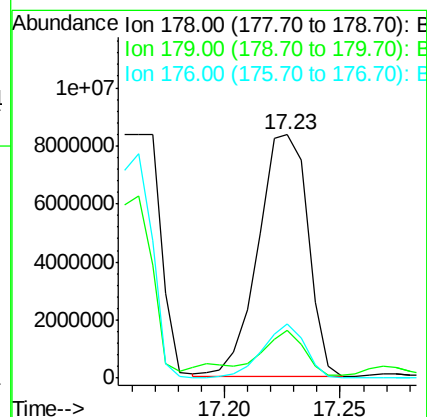
Tgt Ion:178 Resp:12428901

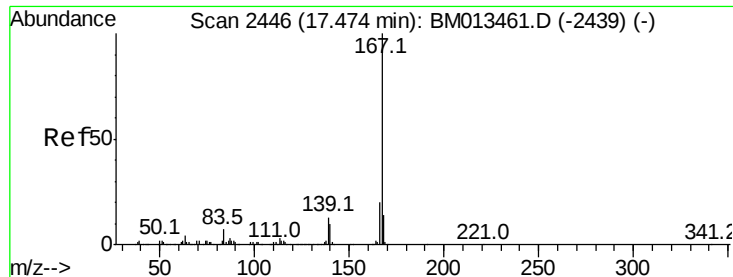
Ion Ratio Lower Upper

178 100

179 19.8 11.7 17.5#

176 22.3 14.6 21.8#





#72

Carbazole

Concen: 45.083 ng/ul

RT: 17.48 min Scan# 2447

Delta R.T. 0.01 min

Lab File: BM013467.D

Acq: 16 Dec 2017 08:13

Instrument :

BNA_M

ClientSampleId :

F9A58

Tot Ion:167 Resp: 2823666

Ion Ratio Lower Upper

167 100

166 21.0 17.1 25.7

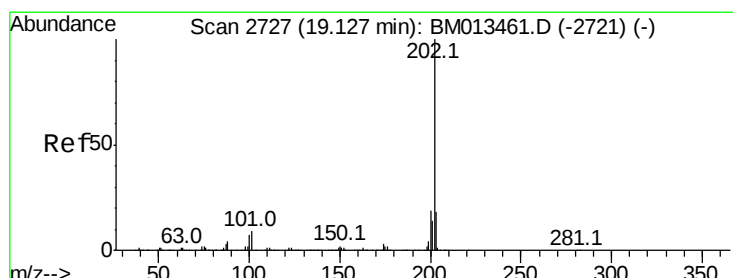
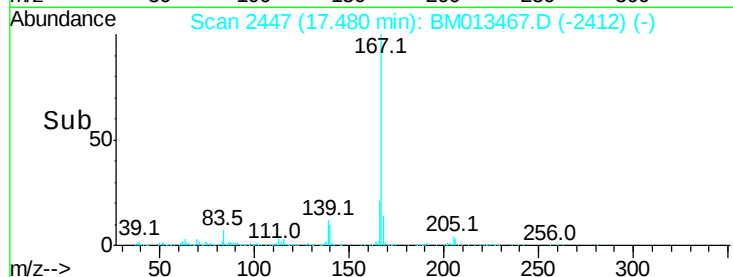
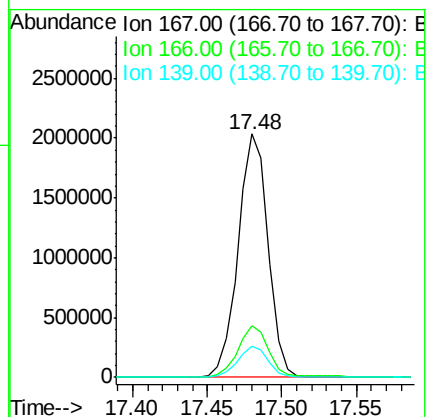
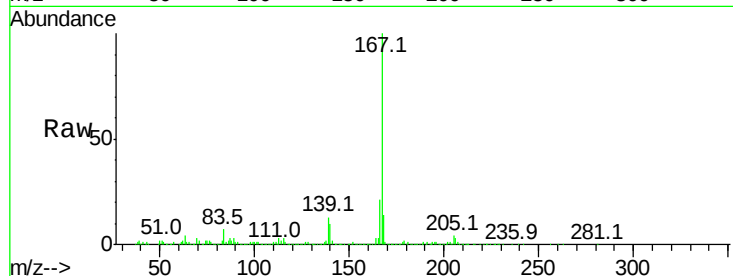
139 12.7 10.0 15.0

Manual Integrations

APPROVED

Sohil

12/18/2017 2:09:54 PM



#74

Fluoranthene

Concen: 345.532 ng/ul m

RT: 19.14 min Scan# 2729

Delta R.T. 0.01 min

Lab File: BM013467.D

Acq: 16 Dec 2017 08:13

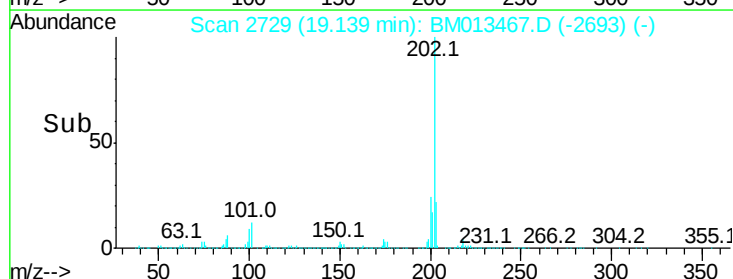
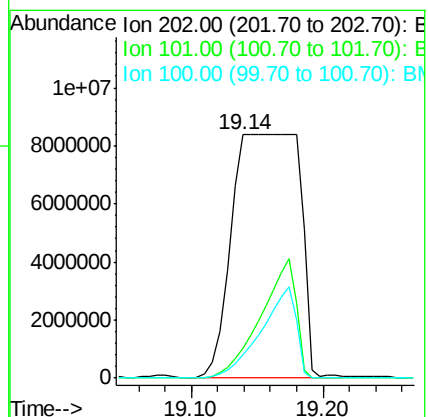
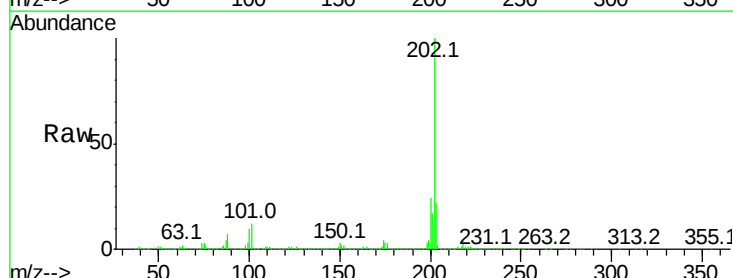
Tgt Ion:202 Resp:30164762

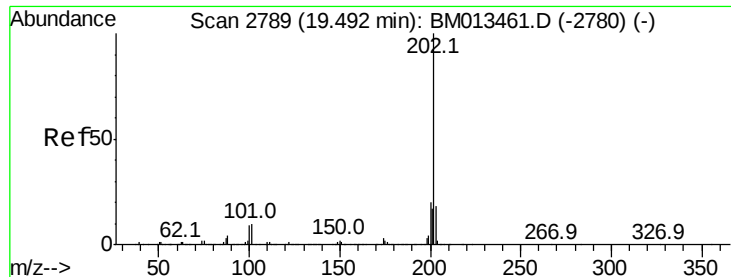
Ion Ratio Lower Upper

202 100

101 12.1 4.6 7.0#

100 9.6 3.4 5.2#





#77

Pvrene

Concen: 354.749 ng/ul m

RT: 19.50 min Scan# 2791

Delta R.T. 0.01 min

Lab File: BM013467.D

Acq: 16 Dec 2017 08:13

Instrument :

BNA_M

ClientSampled :

F9A58

Tot Ion:202 Resp:25917833

Ion Ratio Lower Upper

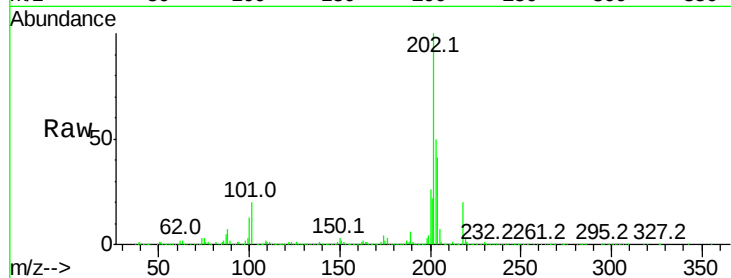
202 100

101 19.9 5.1 7.7#

100 13.0 4.9 7.3#

Manual Integrations
APPROVED

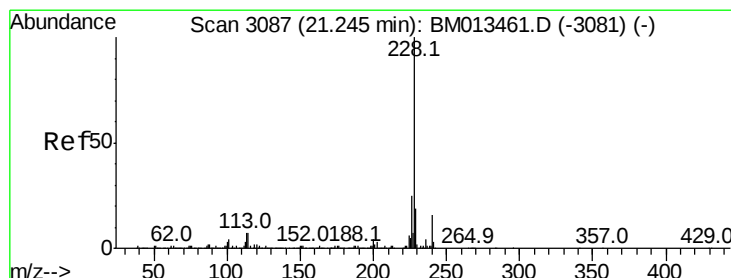
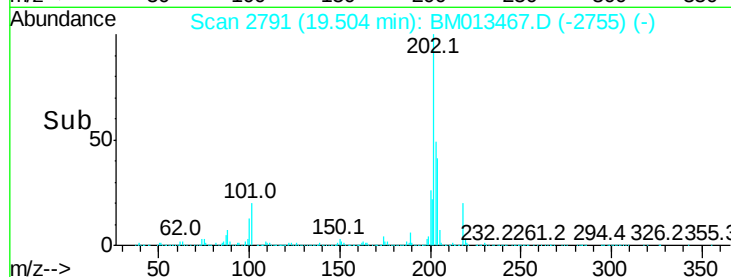
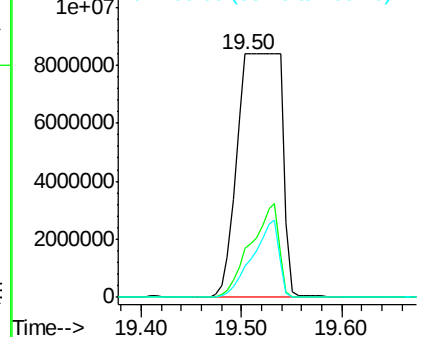
Sohil
12/18/2017 2:09:54 PM



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: 121.122 ng/ul

RT: 21.26 min Scan# 3089

Delta R.T. 0.01 min

Lab File: BM013467.D

Acq: 16 Dec 2017 08:13

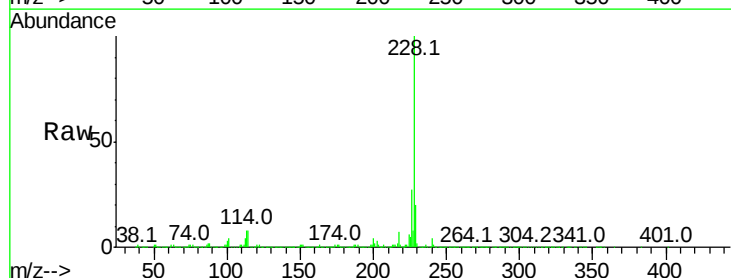
Tgt Ion:228 Resp: 9241661

Ion Ratio Lower Upper

228 100

229 20.4 15.4 23.0

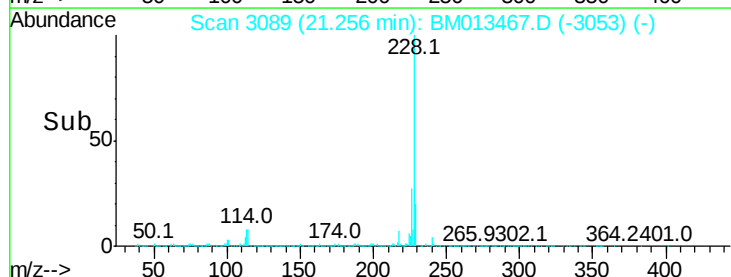
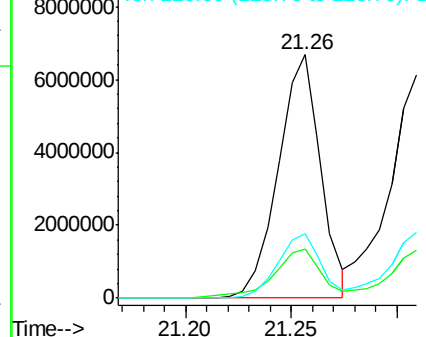
226 26.7 21.4 32.0

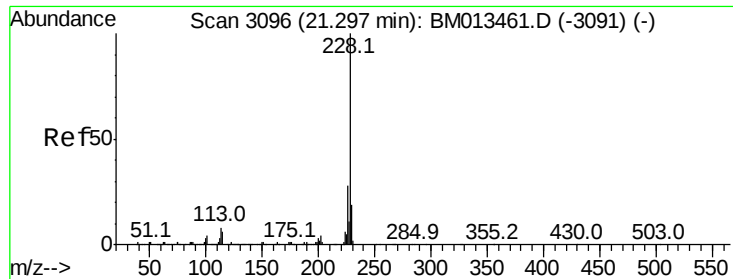


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E





#82

Chrysene

Concen: 118.775 ng/ul

RT: 21.31 min Scan# 3098

Delta R.T. 0.01 min

Lab File: BM013467.D

Acq: 16 Dec 2017 08:13

Instrument :

BNA_M

ClientSampled :

F9A58

Tot Ion:228 Resp: 8407775

Ion	Ratio	Lower	Upper
228	100		
226	29.6	23.4	35.2
229	21.2	15.5	23.3

228 100

226 29.6 23.4 35.2

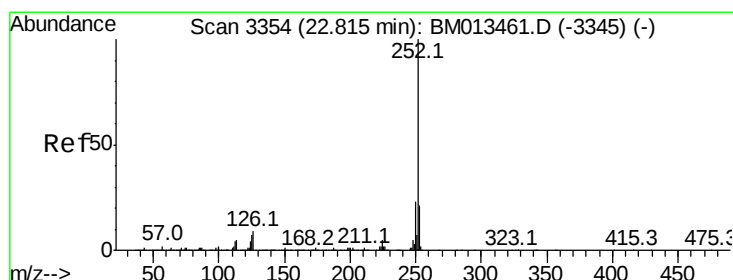
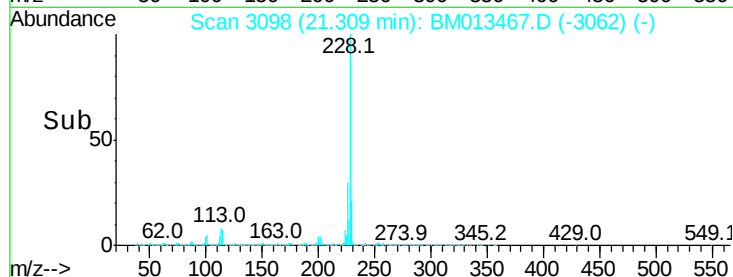
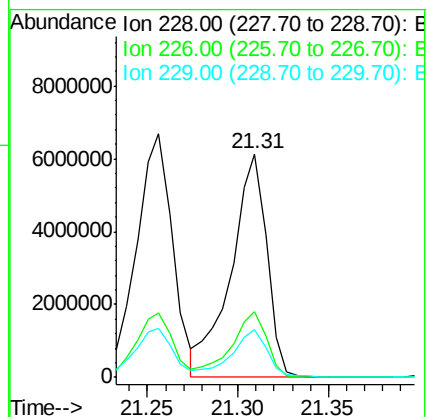
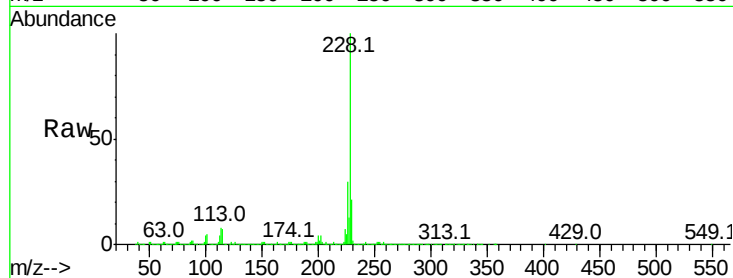
229 21.2 15.5 23.3

Manual Integrations

APPROVED

Sohil

12/18/2017 2:09:54 PM



#85

Benzo(b)fluoranthene

Concen: 66.015 ng/ul

RT: 22.83 min Scan# 3356

Delta R.T. 0.01 min

Lab File: BM013467.D

Acq: 16 Dec 2017 08:13

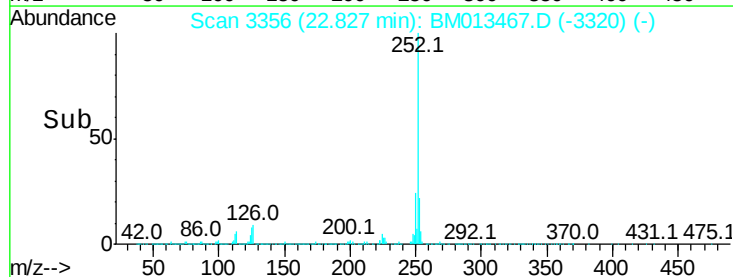
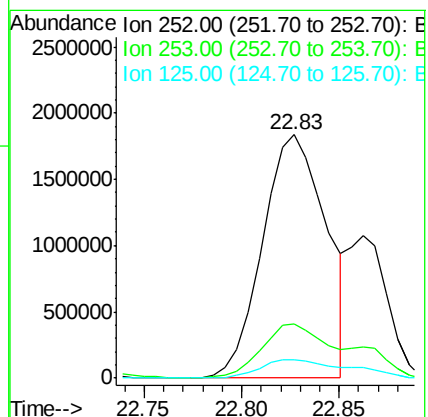
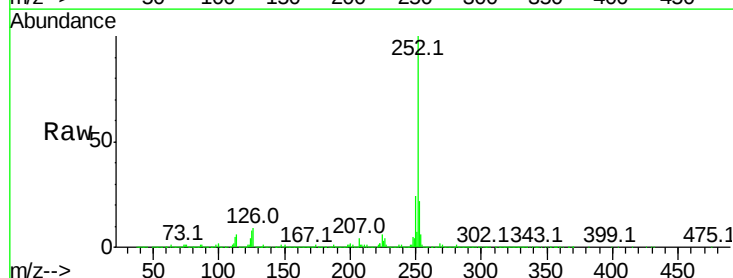
Tgt Ion:252 Resp: 4139411

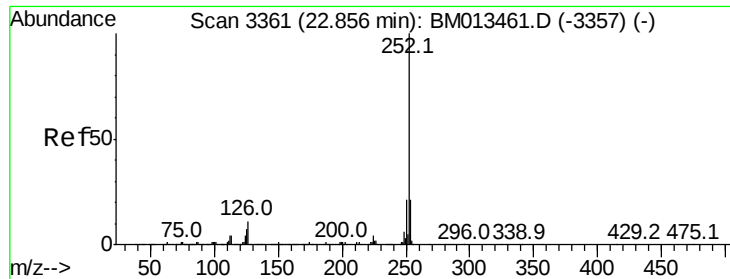
Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.9	26.9
125	7.6	3.6	5.4

252 100

253 22.3 17.9 26.9

125 7.6 3.6 5.4#





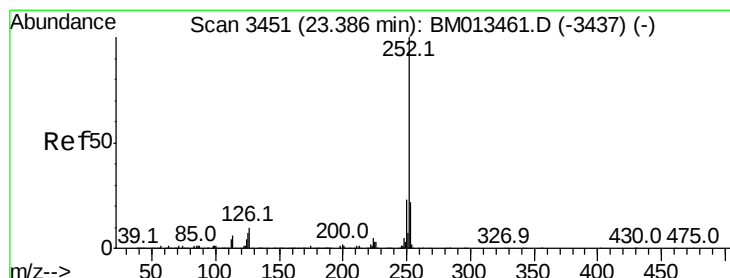
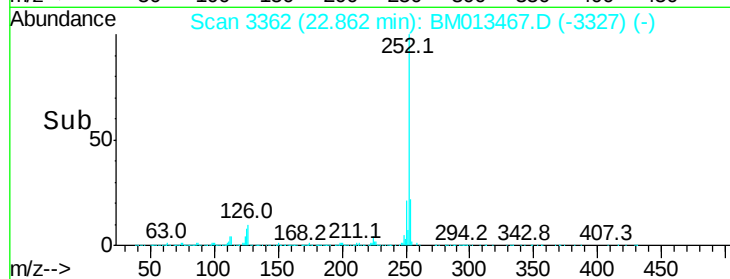
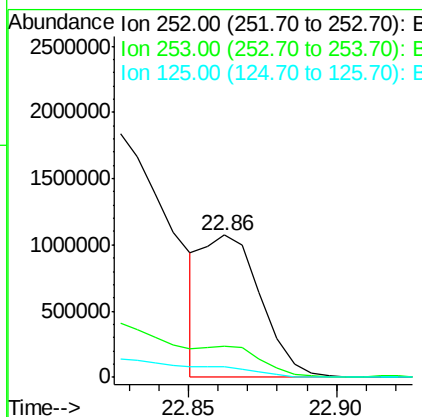
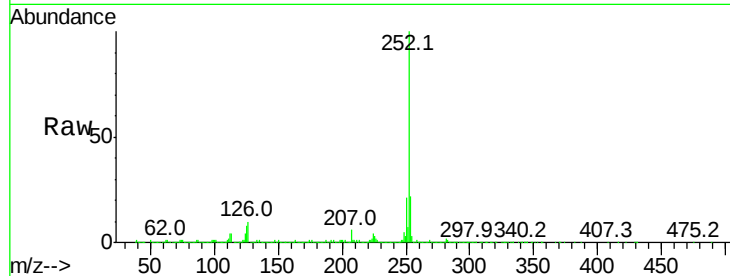
#86
Benzo(k)fluoranthene
Concen: 24.784 ng/ul m
RT: 22.86 min Scan# 3362
Delta R.T. 0.01 min
Lab File: BM013467.D
Acq: 16 Dec 2017 08:13

Instrument :
BNA_M
ClientSampled :
F9A58

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.1	25.7
125	7.7	3.4	5.2

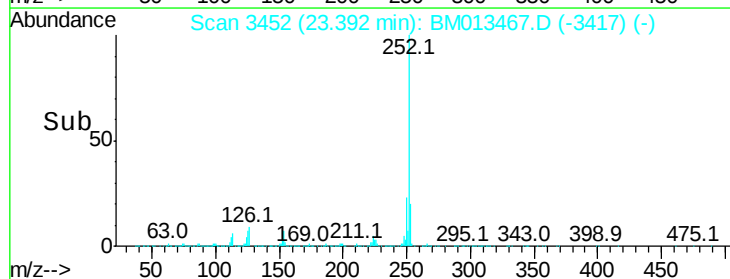
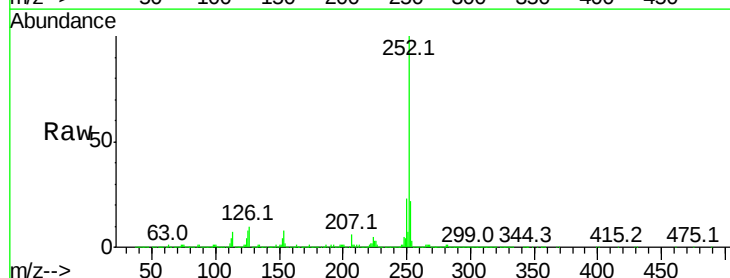
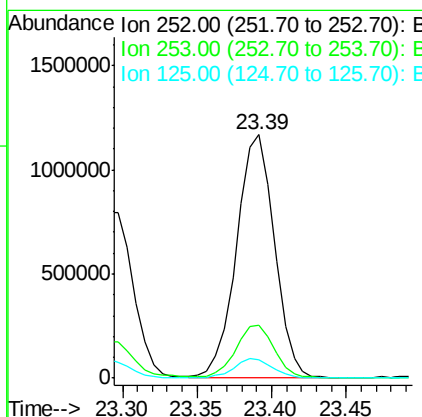
Manual Integrations
APPROVED

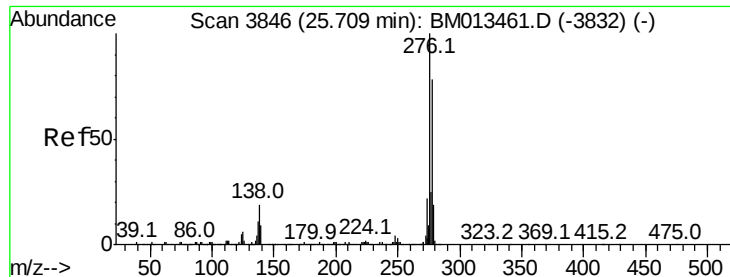
Sohil
12/18/2017 2:09:54 PM



#88
Benzo(a)pyrene
Concen: 36.354 ng/ul
RT: 23.39 min Scan# 3452
Delta R.T. 0.01 min
Lab File: BM013467.D
Acq: 16 Dec 2017 08:13

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.8	18.2	27.2
125	7.5	4.0	6.0





#89

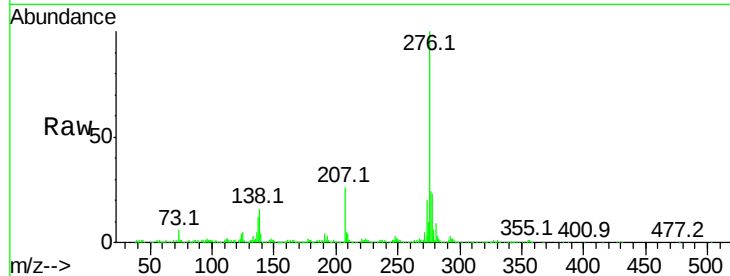
Indeno(1,2,3-cd)pyrene
Concen: 11.558 ng/ul
RT: 25.71 min Scan# 3846
Delta R.T. -0.00 min
Lab File: BM013467.D
Acq: 16 Dec 2017 08:13

Instrument :
BNA_M
ClientSampleId :
F9A58

Tot Ion	Ratio	Lower	Upper
276	100		
138	15.6	9.3	13.9#
277	24.4	19.9	29.9

Manual Integrations
APPROVED

Sohil
12/18/2017 2:09:54 PM

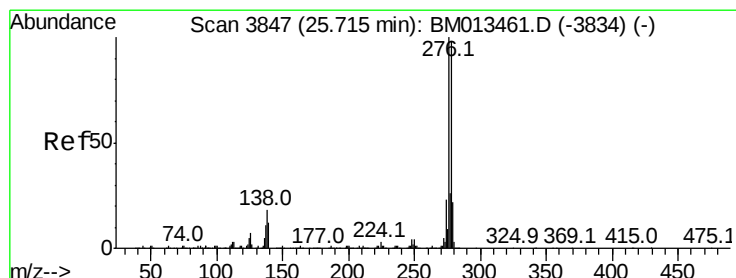
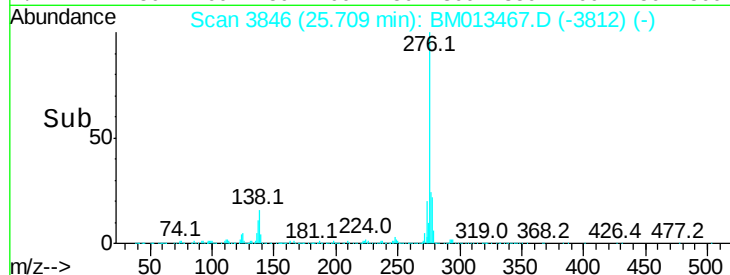
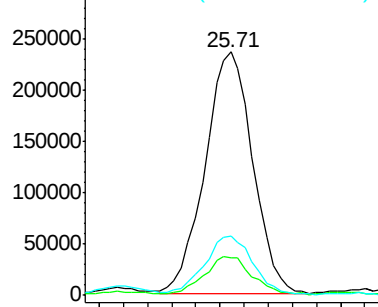


Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

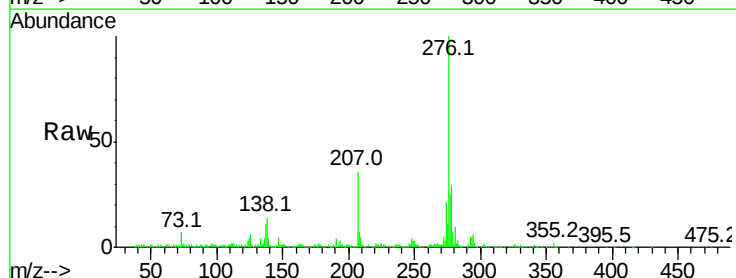
Ion 277.00 (276.70 to 277.70): E



#90

Dibenzo(a,h)anthracene
Concen: 3.647 ng/ul
RT: 25.72 min Scan# 3848
Delta R.T. -0.00 min
Lab File: BM013467.D
Acq: 16 Dec 2017 08:13

Tgt Ion	Ratio	Lower	Upper
278	100		
139	11.9	5.8	8.8#
279	23.7	18.6	27.8

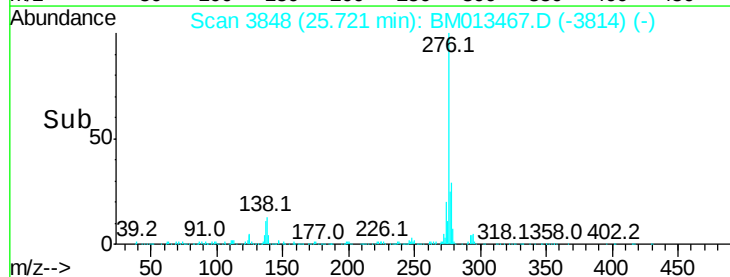
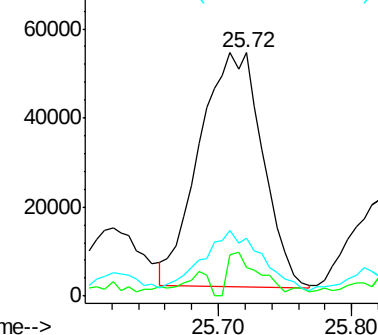


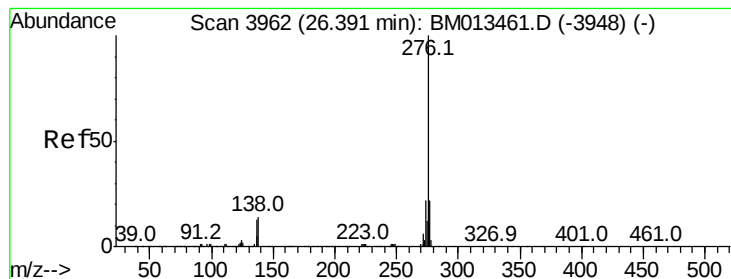
Abundance

Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#91

Benzo(a,h,i)perylene

Concen: 10.955 ng/ul

RT: 26.39 min Scan# 3962

Delta R.T. -0.01 min

Lab File: BM013467.D

Acq: 16 Dec 2017 08:13

Instrument :

BNA_M

ClientSampleId :

F9A58

Tot Ion:276 Resp: 482965

Ion Ratio Lower Upper

276 100

138 15.5 8.5 12.7#

277 26.7 18.6 28.0

Manual Integrations
APPROVED

Sohil

12/18/2017 2:09:54 PM

