

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM122118\
 Data File : BM018364.D
 Acq On : 21 Dec 2018 19:27
 Operator : JU/SJ
 Sample : J6386-19
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 P001-SS008-0006-01

Manual Integrations
 APPROVED

Sohil
 12/26/2018 3:20:06 PM

Quant Time: Dec 22 05:01:20 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM121518.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Dec 15 21:39:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.48	152	117490	20.00	ng	-0.02
21) Naphthalene-d8	10.25	136	426306	20.00	ng	-0.02
39) Acenaphthene-d10	14.14	164	209874	20.00	ng	-0.02
64) Phenanthrene-d10	16.91	188	399158	20.00	ng	-0.01
76) Chrysene-d12	21.14	240	429872	20.00	ng	0.00
87) Perylene-d12	23.31	264	486522	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.13	112	812389	115.51	ng	0.00
7) Phenol-d6	6.70	99	1045798	106.98	ng	0.00
23) Nitrobenzene-d5	8.65	82	710277	85.46	ng	-0.02
42) 2,4,6-Tribromophenol	15.66	330	280322	91.00	ng	-0.01
45) 2-Fluorobiphenyl	12.75	172	1076044	66.41	ng	-0.02
79) Terphenyl-d14	19.57	244	1058577	55.69	ng	0.00
Target Compounds						
10) Phenol	6.73	94	85667	8.275	ng	88
20) 3+4-Methylphenols	8.29	107	19719	2.036	ng	92
49) Acenaphthylene	13.86	152	85788	4.096	ng	97
50) Dimethylphthalate	13.62	163	84287	4.831	ng	97
71) Phenanthrene	16.96	178	228568	10.542	ng	98
72) Anthracene	17.04	178	62016	2.883	ng	97
75) Fluoranthene	18.99	202	162545	6.448	ng	97
78) Pyrene	19.36	202	292417	11.416	ng	99
81) Benzo(a)anthracene	21.13	228	114512m	4.560	ng	
83) Chrysene	21.18	228	125326	5.189	ng	96
86) Indeno(1,2,3-cd)pyrene	25.45	276	76649	3.186	ng	97
88) Benzo(b)fluoranthene	22.67	252	122636m	4.487	ng	
90) Benzo(a)pyrene	23.21	252	133918	5.152	ng	# 90
92) Benzo(a,h,i)perylene	26.11	276	111732	4.909	ng	# 93

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

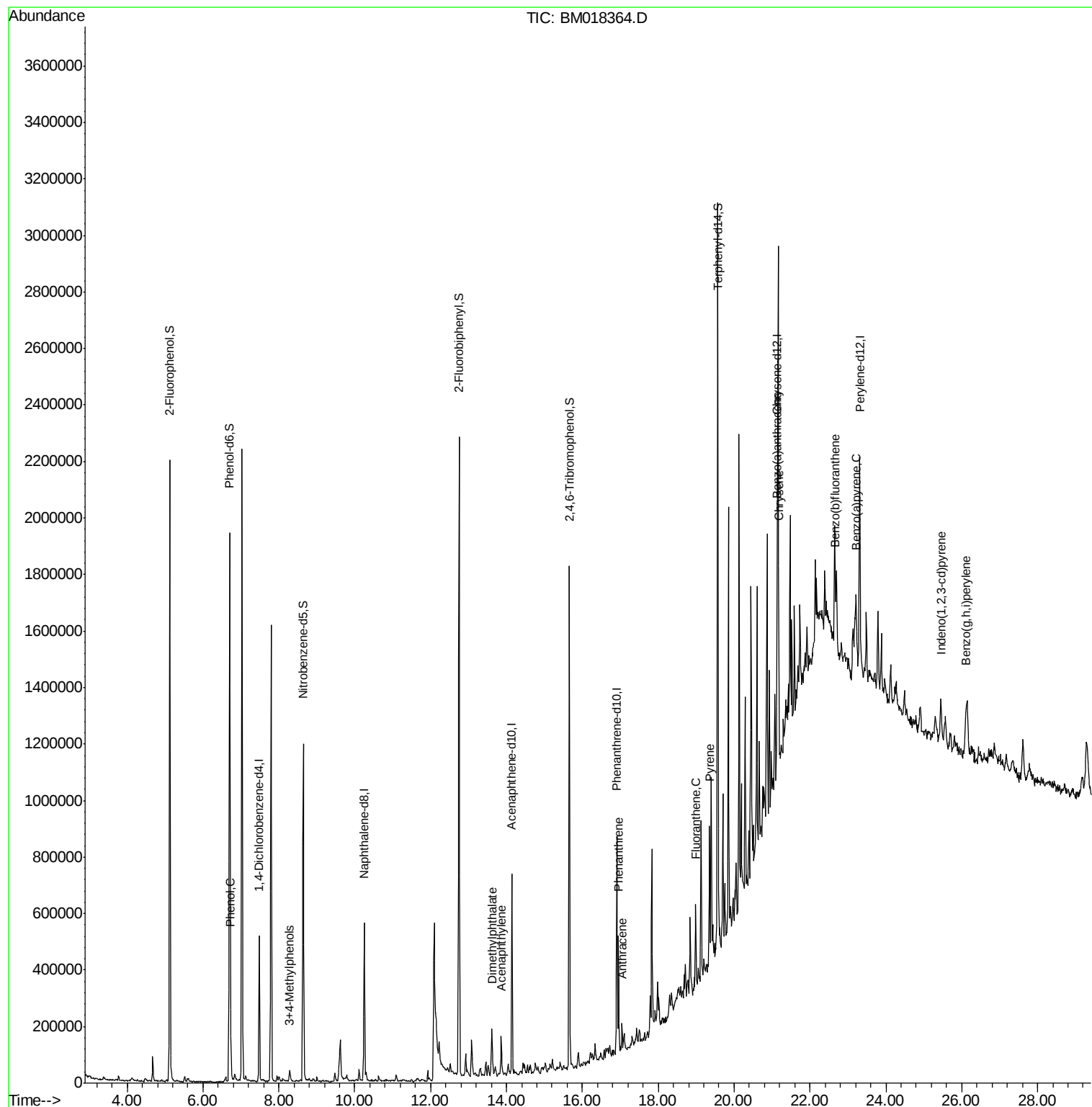
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM122118\
Data File : BM018364.D
Acq On : 21 Dec 2018 19:27
Operator : JU/SJ
Sample : J6386-19
Misc :
ALS Vial : 4 Sample Multiplier: 1

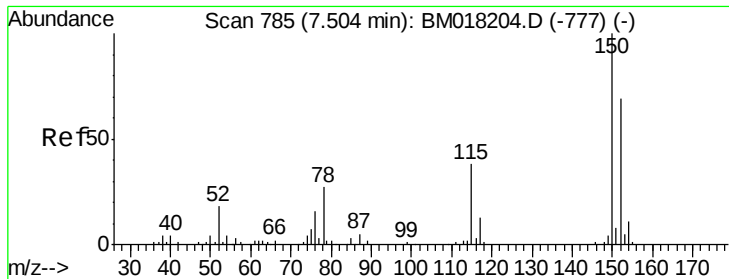
Instrument :
BNA_M
ClientSampleId :
P001-SS008-0006-01

Manual Integrations
APPROVED

Sohil
12/26/2018 3:20:06 PM

Quant Time: Dec 22 05:01:20 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM121518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Dec 15 21:39:37 2018
Response via : Initial Calibration





#1

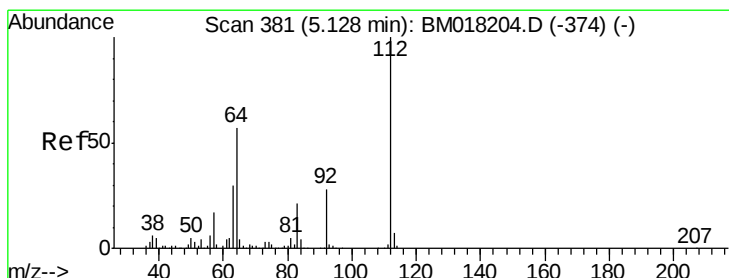
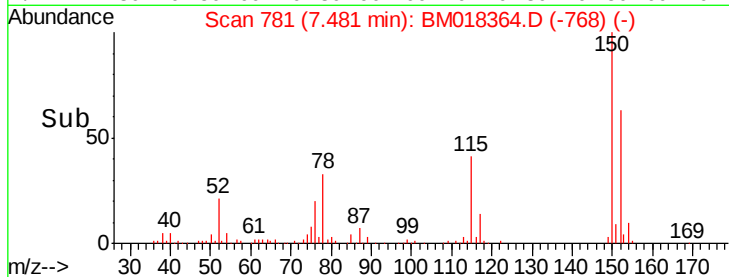
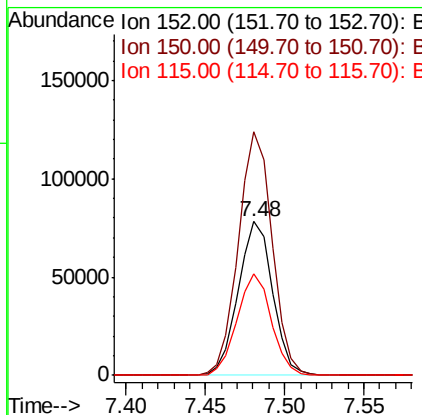
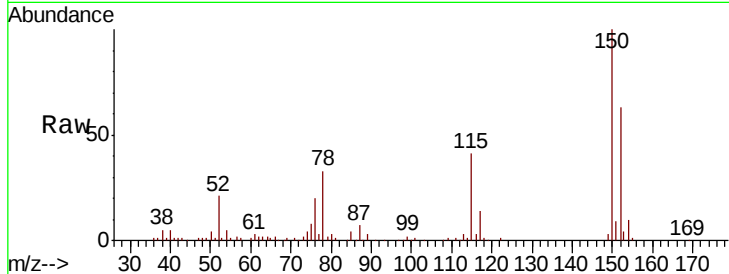
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.48 min Scan# 781
Delta R.T. -0.02 min
Lab File: BM018364.D
Acq: 21 Dec 2018 19:27

Instrument :
BNA_M
ClientSampleId :
P001-SS008-0006-01

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.7	116.1	174.1
115	65.8	44.6	67.0

Manual Integrations
APPROVED

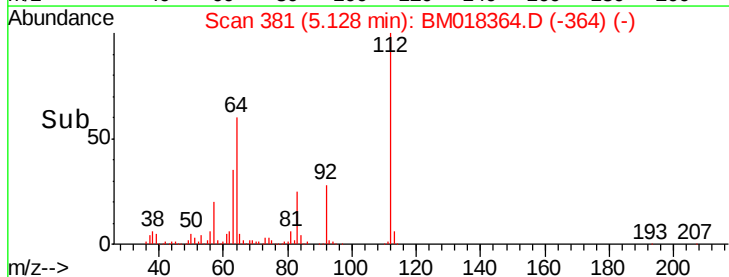
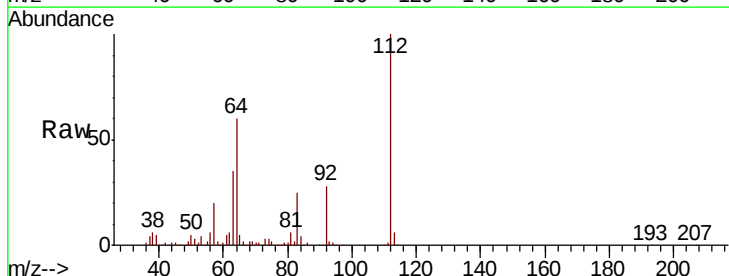
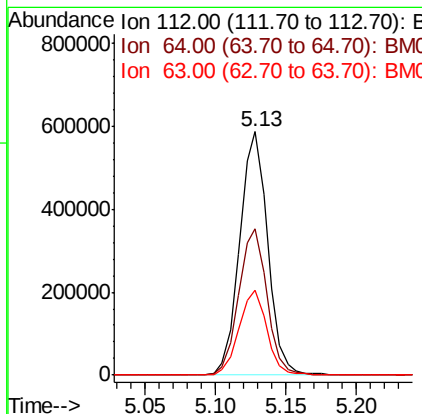
Sohil
12/26/2018 3:20:06 PM

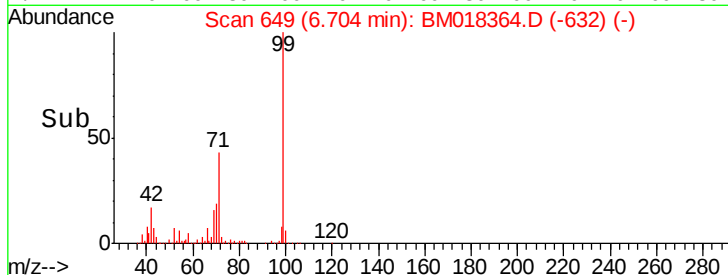
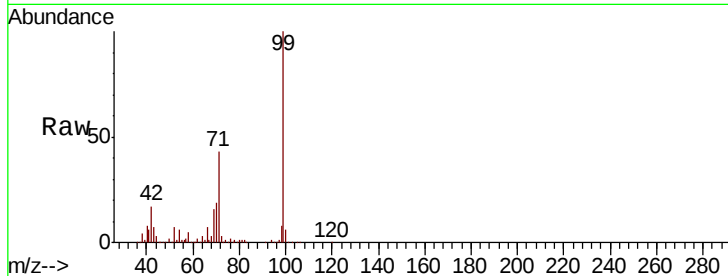
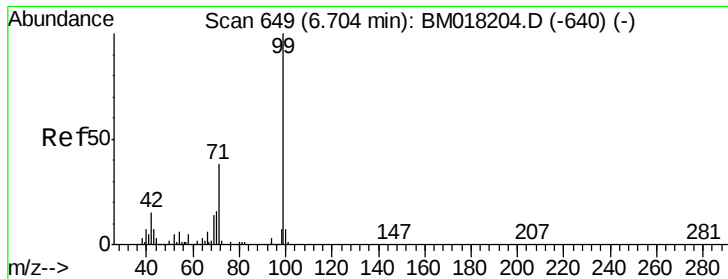


#5

2-Fluorophenol
Concen: 115.506 ng
RT: 5.13 min Scan# 381
Delta R.T. -0.00 min
Lab File: BM018364.D
Acq: 21 Dec 2018 19:27

Tgt Ion	Ratio	Lower	Upper
112	100		
64	60.0	45.4	68.2
63	34.7	24.0	36.0





#7

Phenol-d6

Concen: 106.979 ng

RT: 6.70 min Scan# 649

Delta R.T. -0.00 min

Lab File: BM018364.D

Acq: 21 Dec 2018 19:27

Tot Ion: 99 Resp: 1045798

Ion Ratio Lower Upper

99 100

42 16.9 12.3 18.5

71 43.4 30.2 45.2

Instrument :

BNA_M

ClientSampleId :

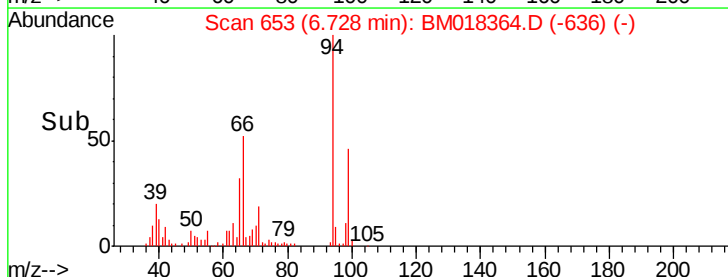
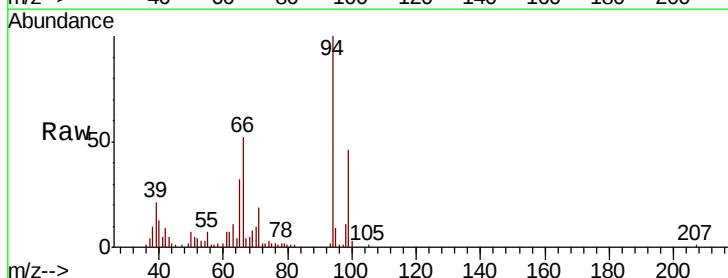
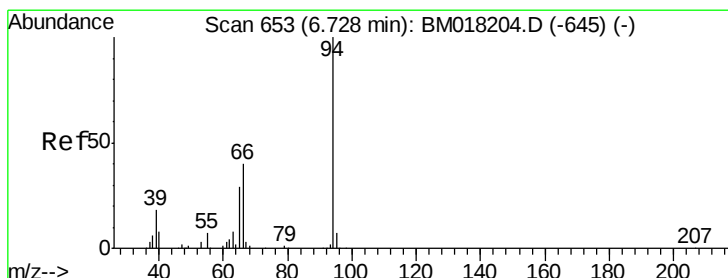
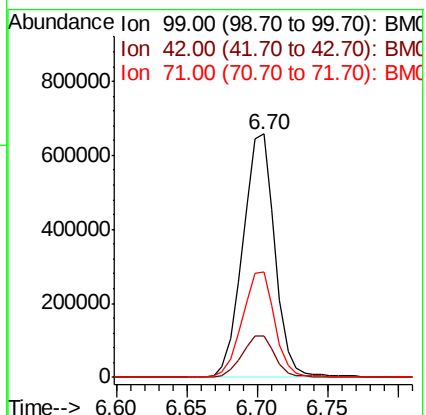
P001-SS008-0006-01

Manual Integrations

APPROVED

Sohil

12/26/2018 3:20:06 PM



#10

Phenol

Concen: 8.275 ng

RT: 6.73 min Scan# 653

Delta R.T. -0.00 min

Lab File: BM018364.D

Acq: 21 Dec 2018 19:27

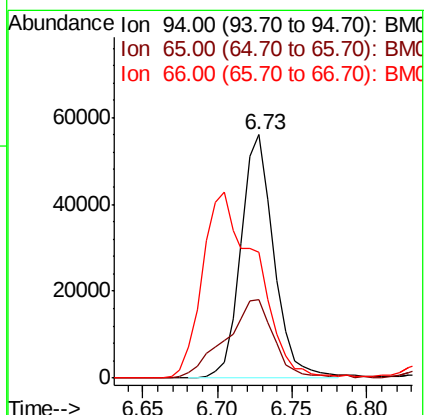
Tgt Ion: 94 Resp: 85667

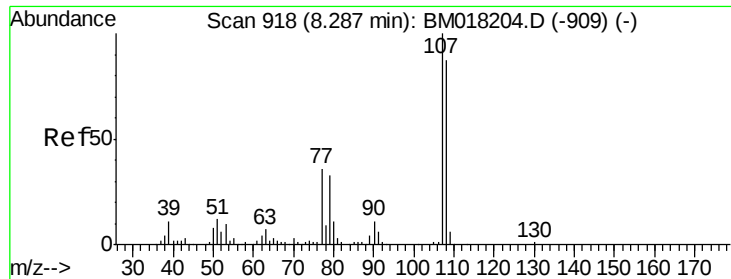
Ion Ratio Lower Upper

94 100

65 32.4 9.5 49.5

66 51.6 21.3 61.3





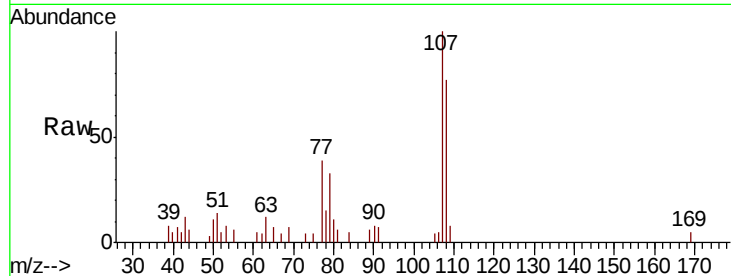
#20
3+4-Methylphenols
Concen: 2.036 ng
RT: 8.29 min Scan# 919
Delta R.T. 0.01 min
Lab File: BM018364.D
Acq: 21 Dec 2018 19:27

Instrument :
BNA_M
ClientSampleId :
P001-SS008-0006-01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
107	107	100	19719		
108	108	77.1		67.4	107.4
77	77	39.4		15.7	55.7
79	79	33.0		13.3	53.3

Manual Integrations
APPROVED

Sohil
12/26/2018 3:20:06 PM



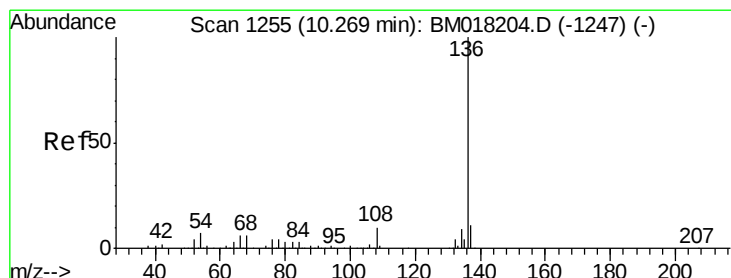
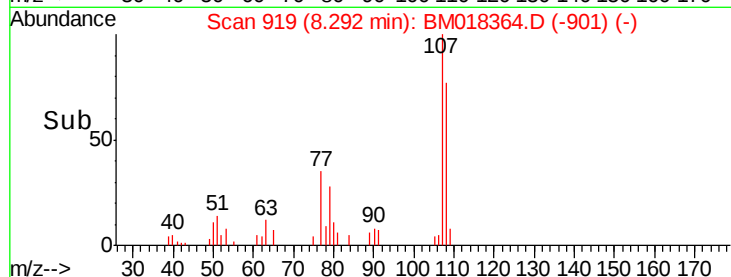
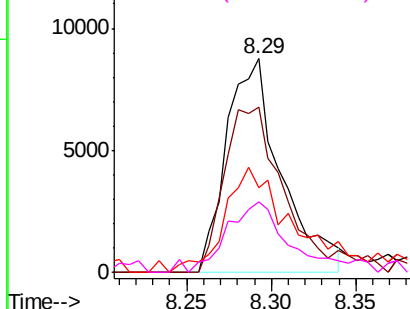
Abundance

Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BM

Ion 79.00 (78.70 to 79.70): BM



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.25 min Scan# 1252
Delta R.T. -0.02 min
Lab File: BM018364.D
Acq: 21 Dec 2018 19:27

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	136	100	426306		
137	137	10.0		9.2	13.8
54	54	6.7		5.2	7.8
68	68	6.0		5.0	7.6

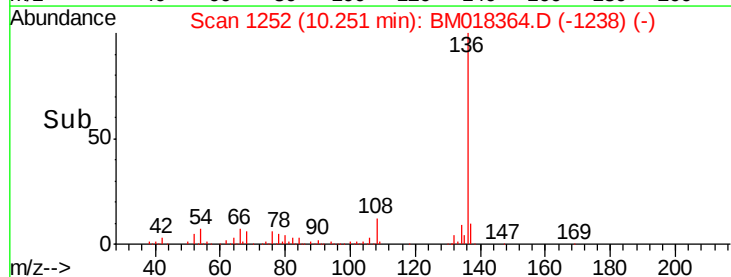
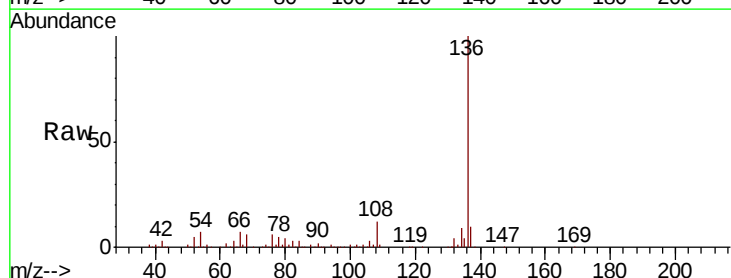
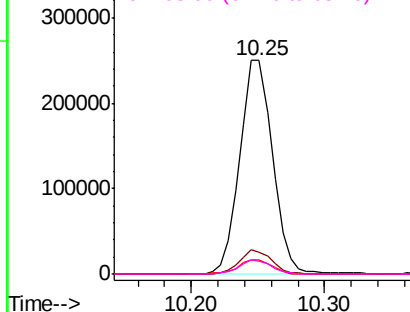
Abundance

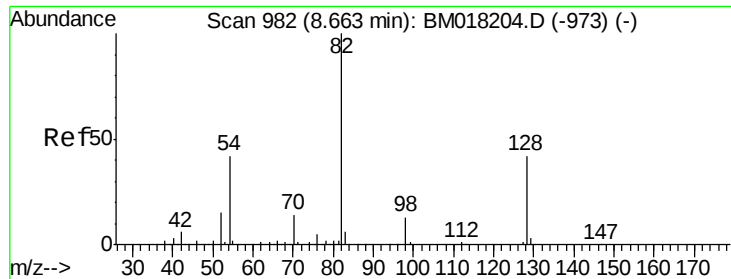
Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BM

Ion 68.00 (67.70 to 68.70): BM





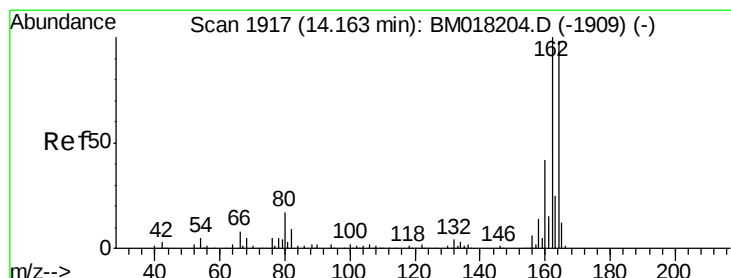
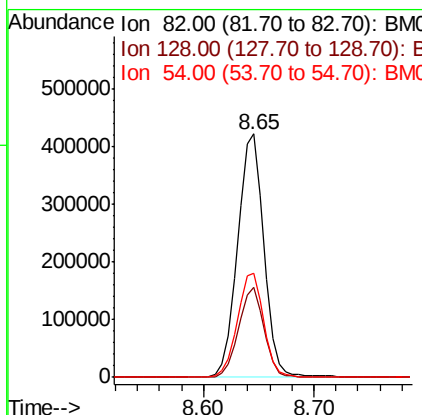
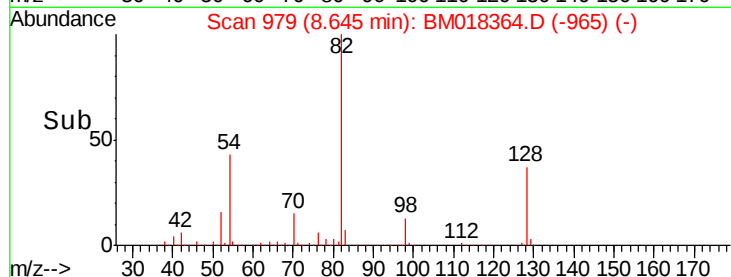
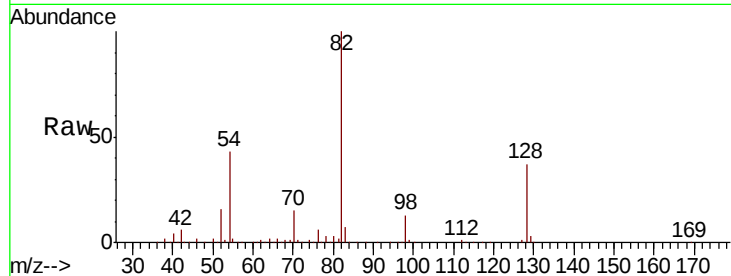
#23
 Nitrobenzene-d5
 Concen: 85.461 ng
 RT: 8.65 min Scan# 979
 Delta R.T. -0.02 min
 Lab File: BM018364.D
 Acq: 21 Dec 2018 19:27

Instrument :
 BNA_M
 ClientSampleId :
 P001-SS008-0006-01

Tot Ion	Ratio	Lower	Upper
82	100		
128	37.1	33.4	50.2
54	42.7	33.4	50.2

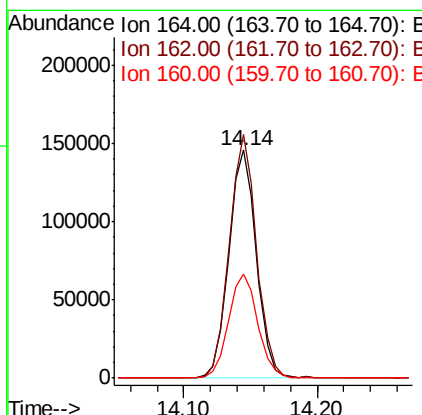
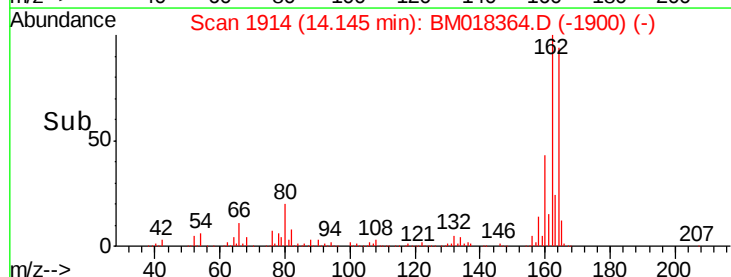
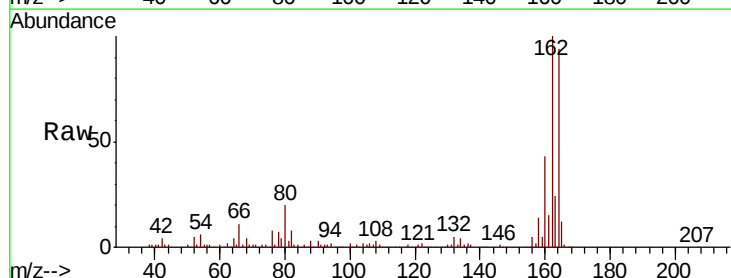
Manual Integrations
 APPROVED

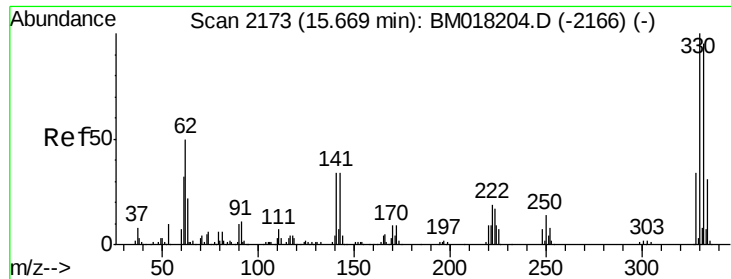
Sohil
 12/26/2018 3:20:06 PM



#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 14.14 min Scan# 1914
 Delta R.T. -0.02 min
 Lab File: BM018364.D
 Acq: 21 Dec 2018 19:27

Tgt Ion	Ratio	Lower	Upper
164	100		
162	106.9	81.8	122.6
160	45.6	34.6	51.8





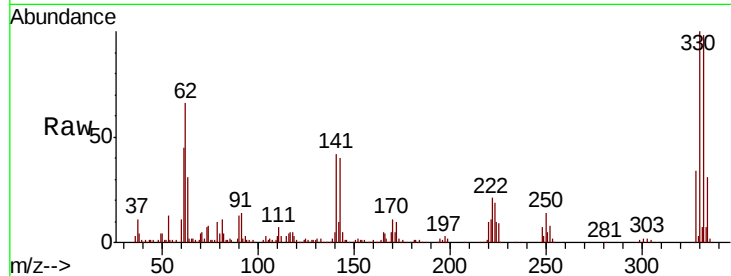
#42
 2,4,6-Tribromophenol
 Concen: 91.003 ng
 RT: 15.66 min Scan# 2171
 Delta R.T. -0.01 min
 Lab File: BM018364.D
 Acq: 21 Dec 2018 19:27

Instrument :
 BNA_M
 ClientSampleId :
 P001-SS008-0006-01

Tot Ion	Ratio	Resp	Lower	Upper
330	100	280322		
332	95.7	78.6	118.0	
141	40.0	27.1	40.7	

Manual Integrations
 APPROVED

Sohil
 12/26/2018 3:20:06 PM

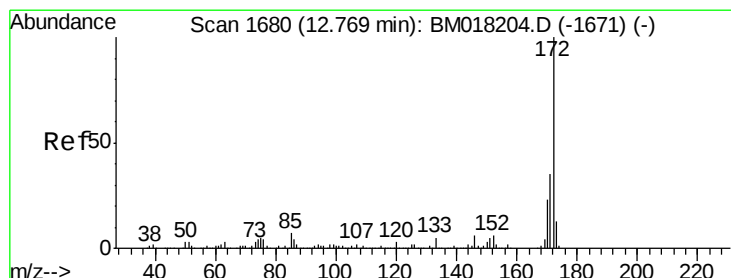
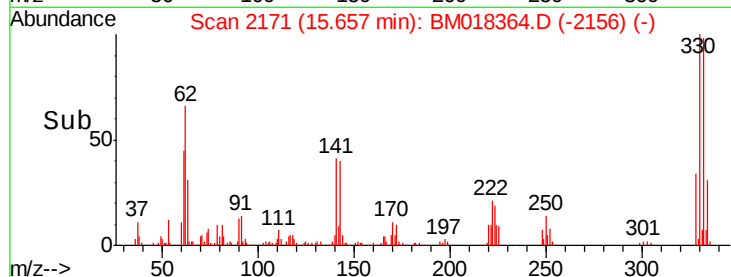
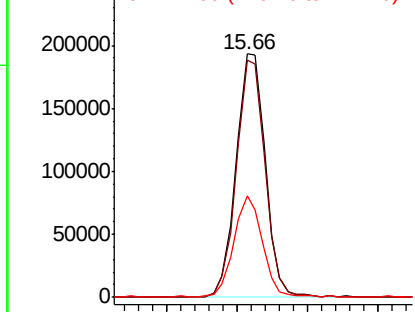


Abundance

Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45
 2-Fluorobiphenyl
 Concen: 66.408 ng
 RT: 12.75 min Scan# 1677
 Delta R.T. -0.02 min
 Lab File: BM018364.D
 Acq: 21 Dec 2018 19:27

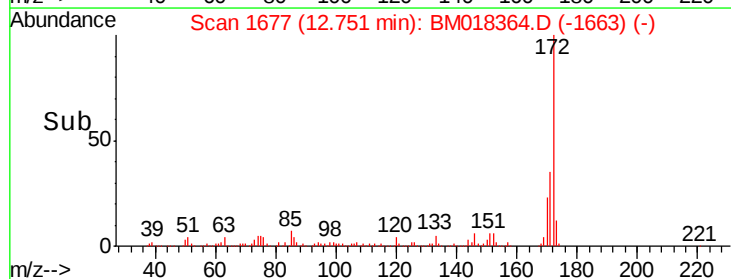
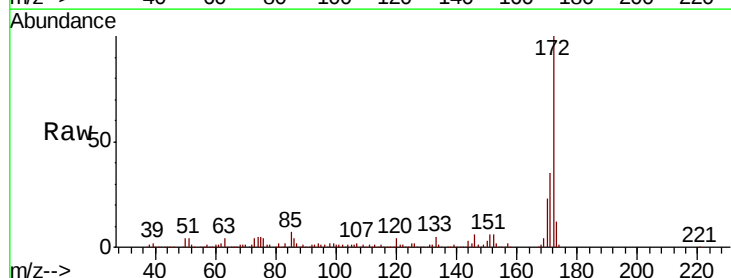
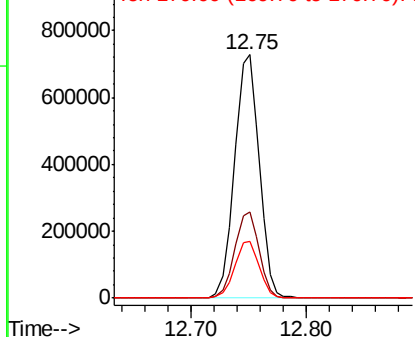
Tgt Ion	Ratio	Resp	Lower	Upper
172	100	1076044		
171	35.4	28.3	42.5	
170	23.2	18.1	27.1	

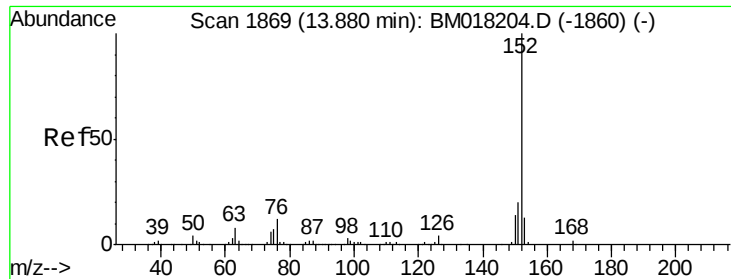
Abundance

Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#49

Acenaphthylene

Concen: 4.096 ng

RT: 13.86 min Scan# 1866

Delta R.T. -0.02 min

Lab File: BM018364.D

Acq: 21 Dec 2018 19:27

Instrument :

BNA_M

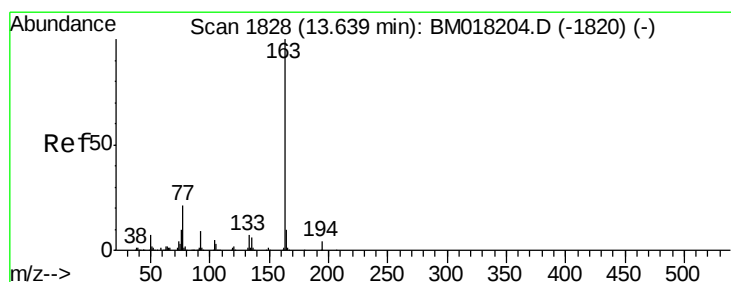
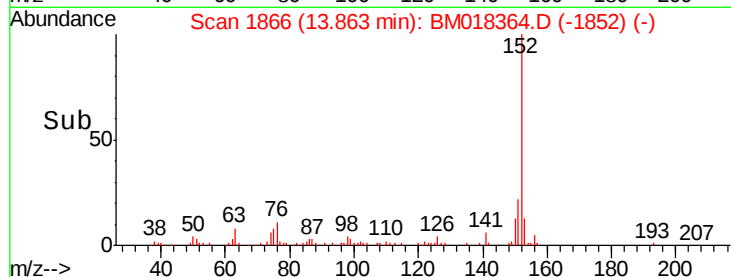
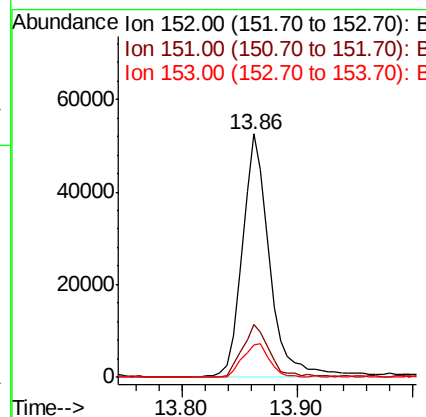
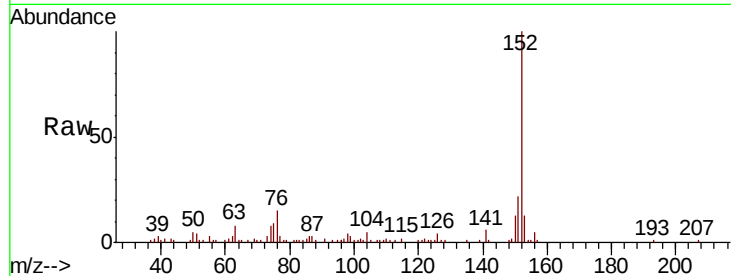
ClientSampleId :

P001-SS008-0006-01

Tot Ion:	152	Resp:	85788
Ion Ratio	Lower	Upper	
152	100		
151	22.0	16.0	24.0
153	13.3	10.2	15.2

Manual Integrations
APPROVED

Sohil
12/26/2018 3:20:06 PM



#50

Dimethylphthalate

Concen: 4.831 ng

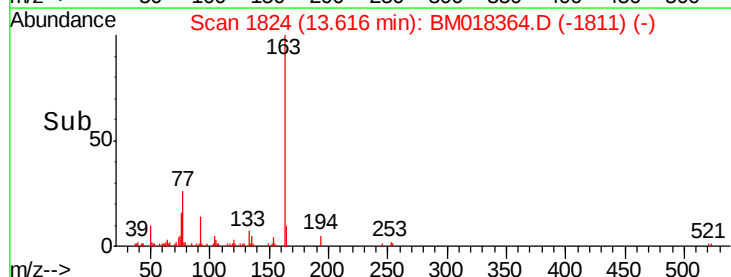
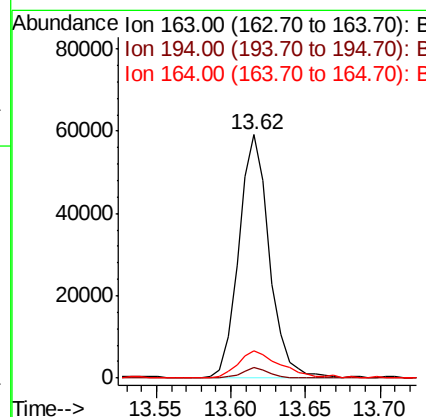
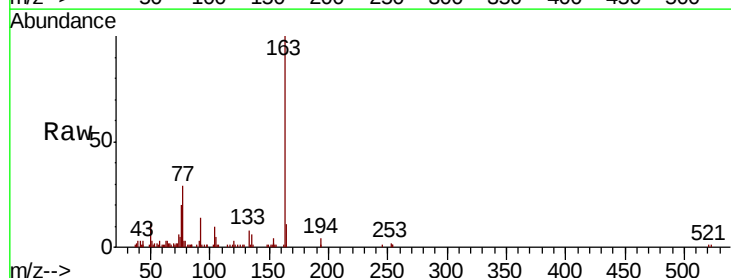
RT: 13.62 min Scan# 1824

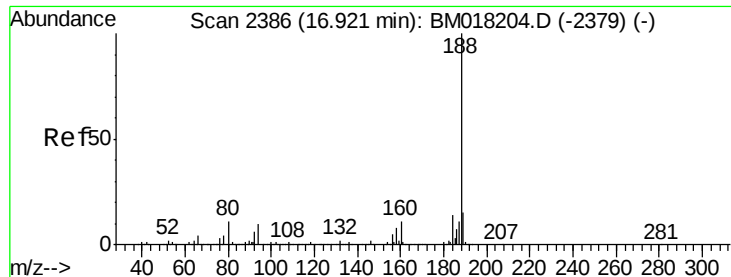
Delta R.T. -0.02 min

Lab File: BM018364.D

Acq: 21 Dec 2018 19:27

Tgt Ion:	163	Resp:	84287
Ion Ratio	Lower	Upper	
163	100		
194	4.5	3.1	4.7
164	11.2	7.9	11.9





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 16.91 min Scan# 2384

Delta R.T. -0.01 min

Lab File: BM018364.D

Acq: 21 Dec 2018 19:27

Instrument :

BNA_M

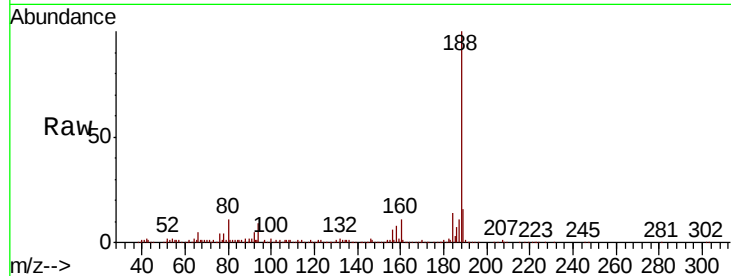
ClientSampleId :

P001-SS008-0006-01

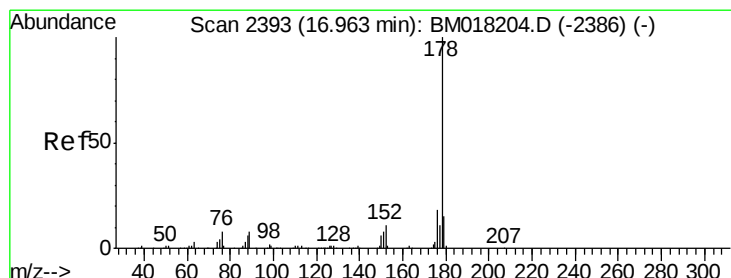
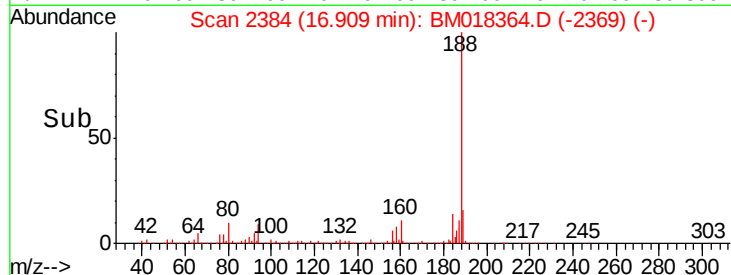
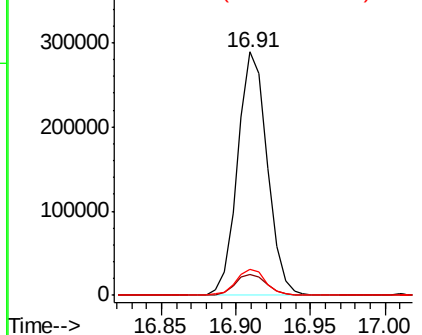
Tot Ion:	188	Resp:	399158
Ion Ratio	Lower	Upper	
188	100		
94	8.7	8.0	12.0
80	10.6	9.0	13.6

Manual Integrations
APPROVED

Sohil
12/26/2018 3:20:06 PM



Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BM
Ion 80.00 (79.70 to 80.70): BM



#71

Phenanthrene

Concen: 10.542 ng

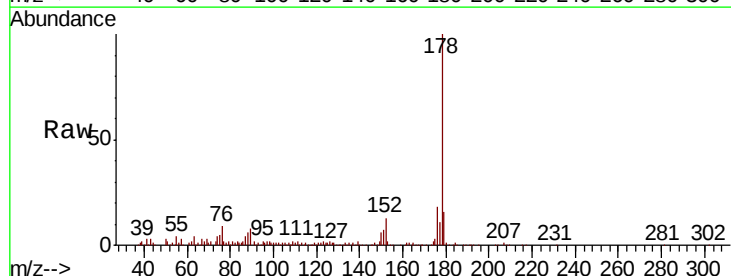
RT: 16.96 min Scan# 2392

Delta R.T. -0.01 min

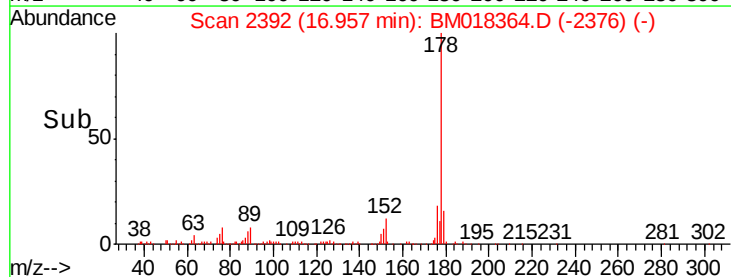
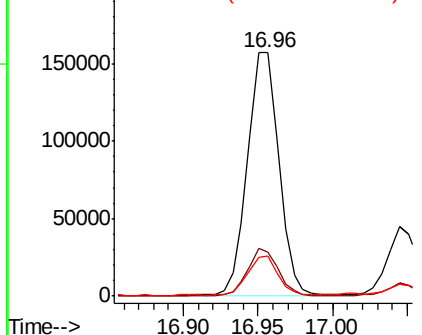
Lab File: BM018364.D

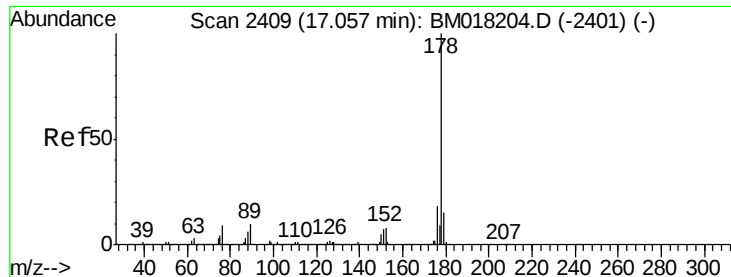
Acq: 21 Dec 2018 19:27

Tgt Ion:	178	Resp:	228568
Ion Ratio	Lower	Upper	
178	100		
176	17.9	14.7	22.1
179	16.4	12.0	18.0



Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E





#72

Anthracene

Concen: 2.883 ng

RT: 17.04 min Scan# 2407

Delta R.T. -0.01 min

Lab File: BM018364.D

Acq: 21 Dec 2018 19:27

Instrument :

BNA_M

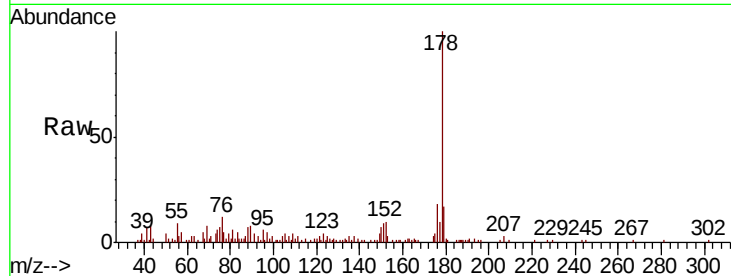
ClientSampleId :

P001-SS008-0006-01

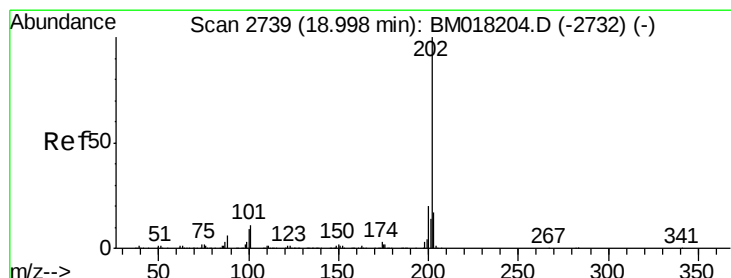
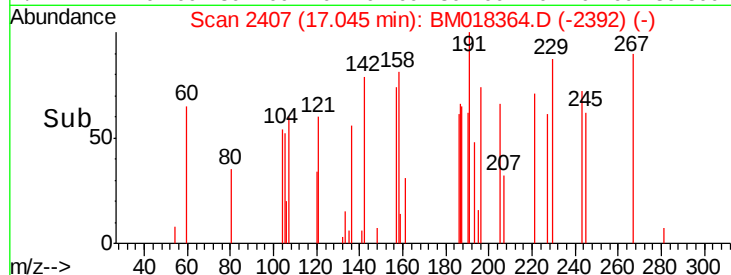
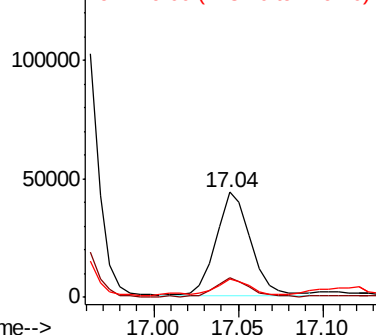
Tot Ion:	178	Resp:	62016
Ion Ratio	Lower	Upper	
178	100		
176	18.4	14.3	21.5
179	17.0	12.0	18.0

Manual Integrations
APPROVED

Sohil
12/26/2018 3:20:06 PM



Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E



#75

Fluoranthene

Concen: 6.448 ng

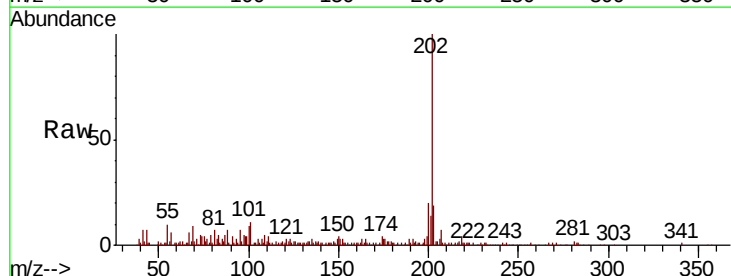
RT: 18.99 min Scan# 2737

Delta R.T. -0.01 min

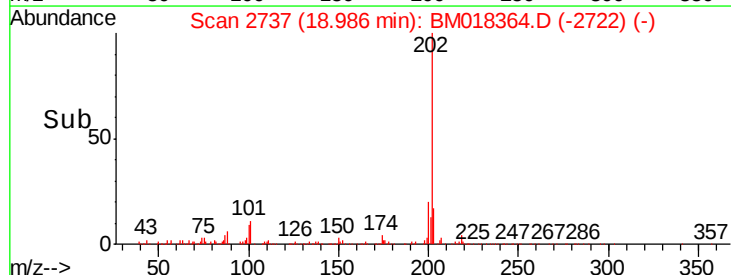
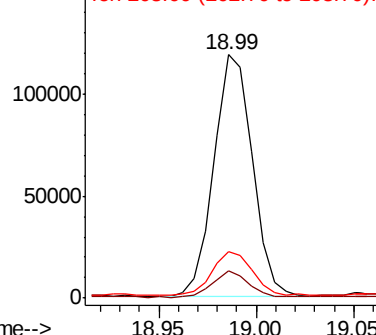
Lab File: BM018364.D

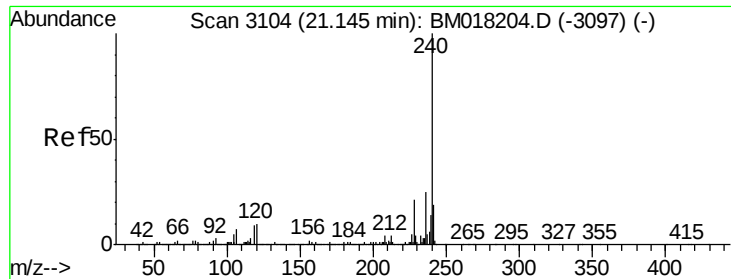
Acq: 21 Dec 2018 19:27

Tgt Ion:	202	Resp:	162545
Ion Ratio	Lower	Upper	
202	100		
101	11.3	0.0	30.5
203	19.2	0.0	37.5



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E





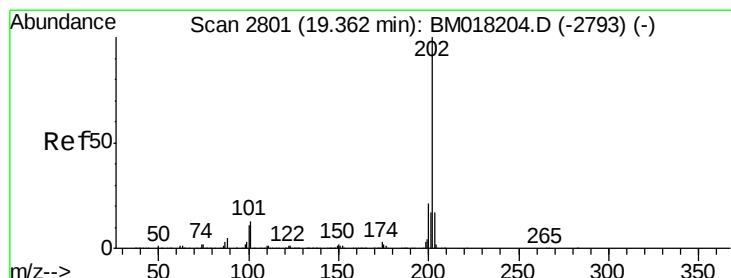
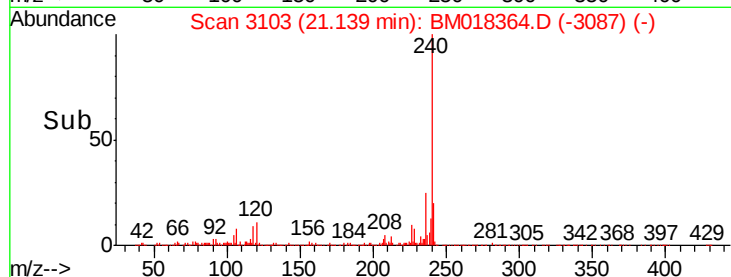
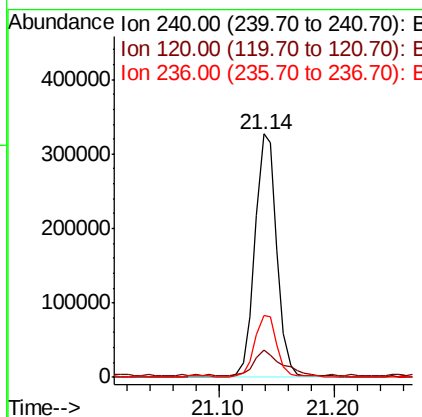
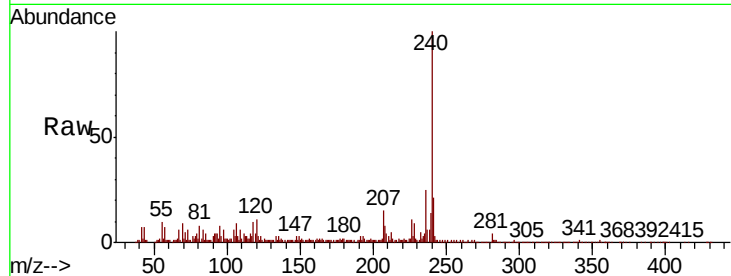
#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.14 min Scan# 3103
Delta R.T. -0.01 min
Lab File: BM018364.D
Acq: 21 Dec 2018 19:27

Instrument :
BNA_M
ClientSampleId :
P001-SS008-0006-01

Tot Ion	Ratio	Lower	Upper
240	100		
120	11.3	8.2	12.2
236	25.2	20.3	30.5

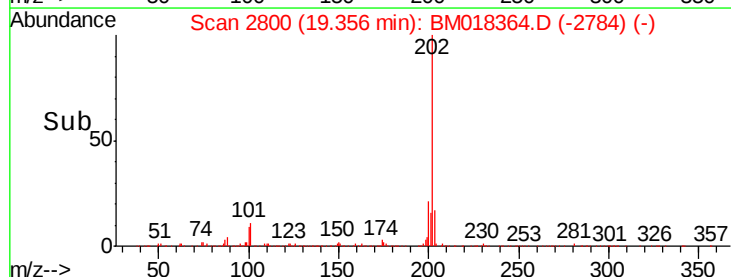
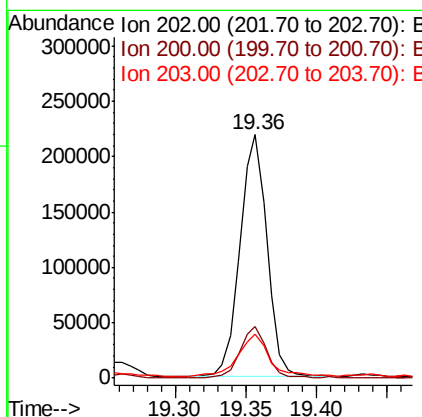
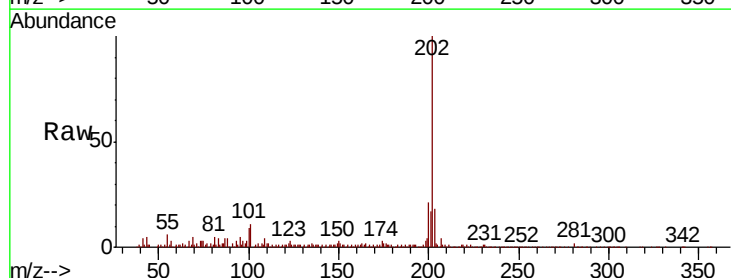
Manual Integrations
APPROVED

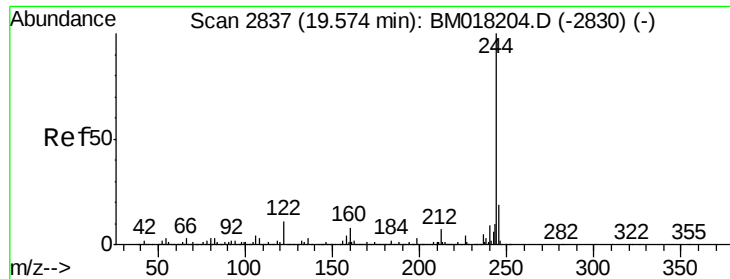
Sohil
12/26/2018 3:20:06 PM



#78
Pyrene
Concen: 11.416 ng
RT: 19.36 min Scan# 2800
Delta R.T. -0.01 min
Lab File: BM018364.D
Acq: 21 Dec 2018 19:27

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.5	24.7
203	18.2	14.0	21.0





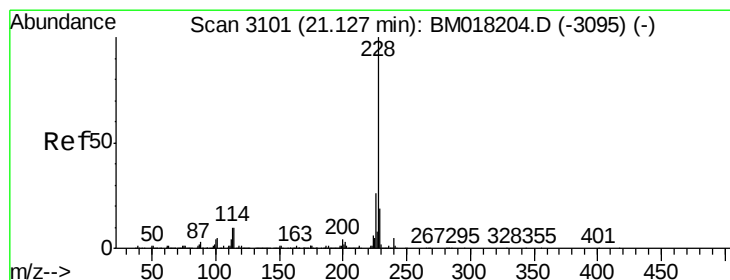
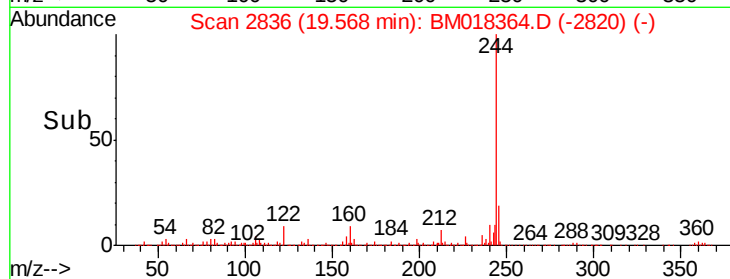
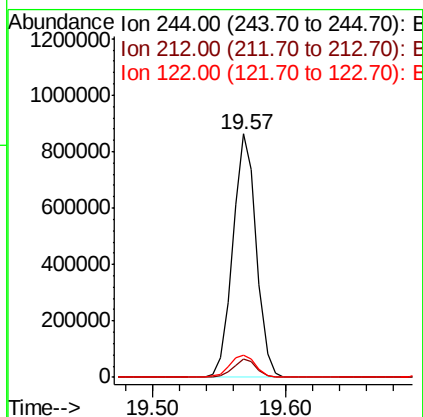
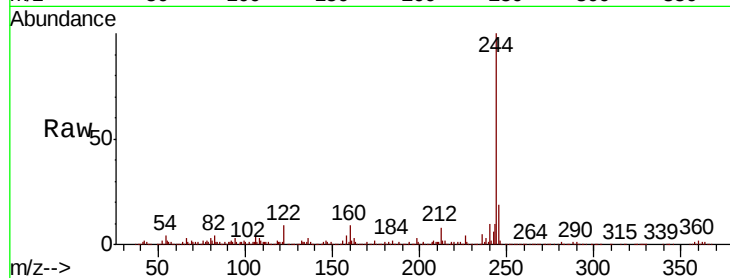
#79
 Terphenyl-d14
 Concen: 55.694 ng
 RT: 19.57 min Scan# 2836
 Delta R.T. -0.01 min
 Lab File: BM018364.D
 Acq: 21 Dec 2018 19:27

Instrument :
 BNA_M
 ClientSampleId :
 P001-SS008-0006-01

Tot Ion	Ratio	Lower	Upper
244	100		
212	7.5	5.8	8.8
122	9.3	9.0	13.6

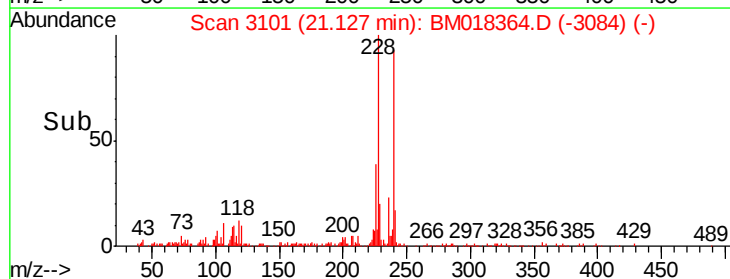
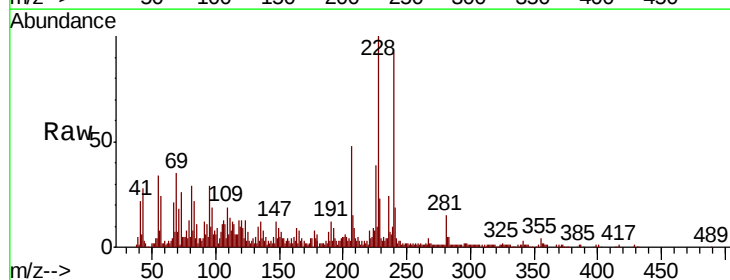
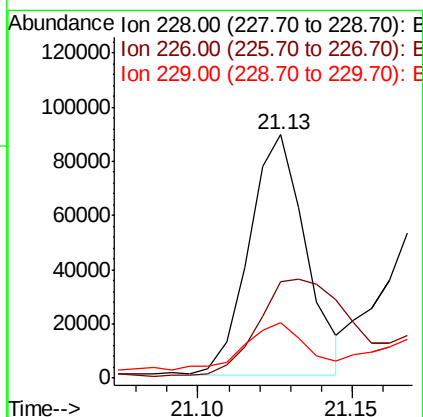
Manual Integrations
 APPROVED

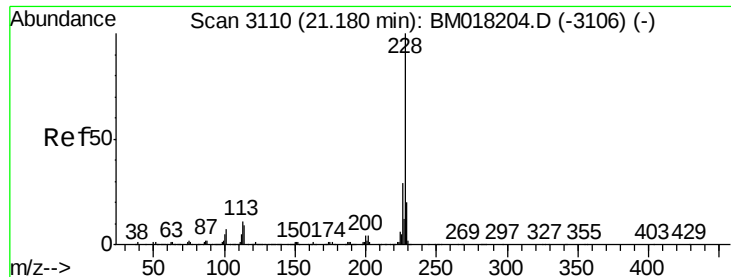
Sohil
 12/26/2018 3:20:06 PM



#81
 Benzo(a)anthracene
 Concen: 4.560 ng m
 RT: 21.13 min Scan# 3101
 Delta R.T. -0.00 min
 Lab File: BM018364.D
 Acq: 21 Dec 2018 19:27

Tgt Ion	Ratio	Lower	Upper
228	100		
226	39.4	21.0	31.4#
229	22.6	15.5	23.3





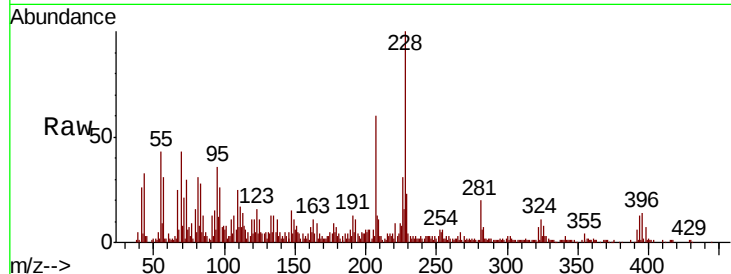
#83
Chrysene
Concen: 5.189 ng
RT: 21.18 min Scan# 3110
Delta R.T. -0.00 min
Lab File: BM018364.D
Acq: 21 Dec 2018 19:27

Instrument :
BNA_M
ClientSampleId :
P001-SS008-0006-01

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.5	23.1	34.7
229	22.5	15.8	23.6

Manual Integrations
APPROVED

Sohil
12/26/2018 3:20:06 PM

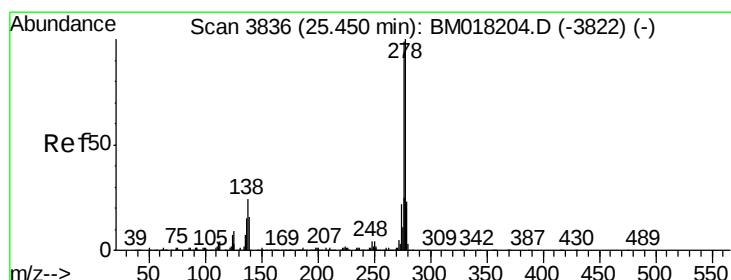
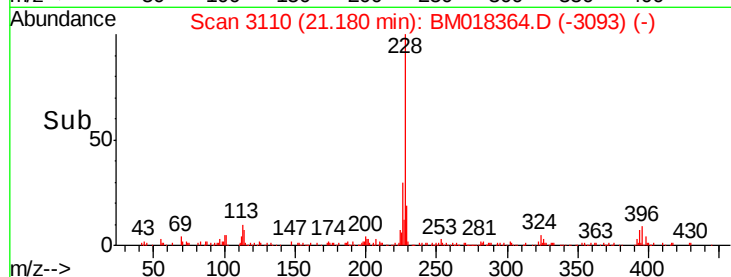
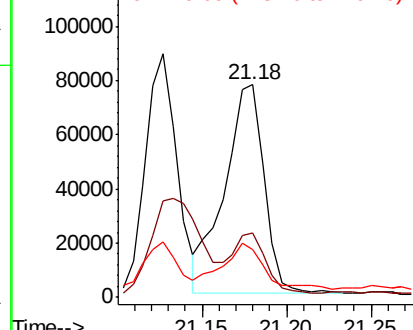


Abundance

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



#86
Indeno(1,2,3-cd)pyrene
Concen: 3.186 ng
RT: 25.45 min Scan# 3836
Delta R.T. -0.00 min
Lab File: BM018364.D
Acq: 21 Dec 2018 19:27

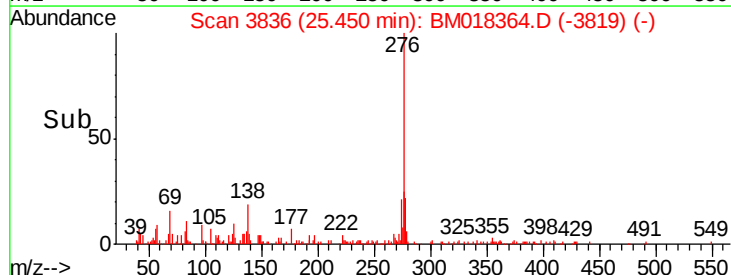
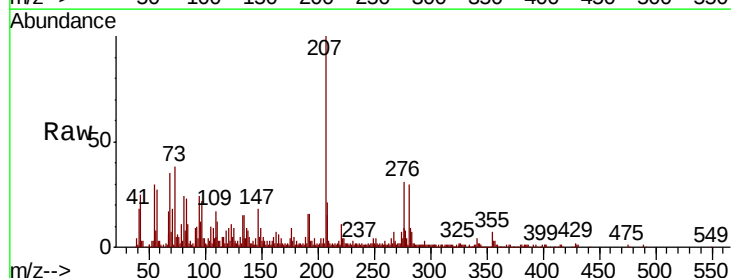
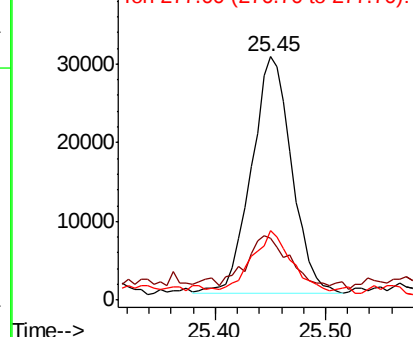
Tgt Ion	Ratio	Lower	Upper
276	100		
138	21.6	18.6	28.0
277	24.0	20.3	30.5

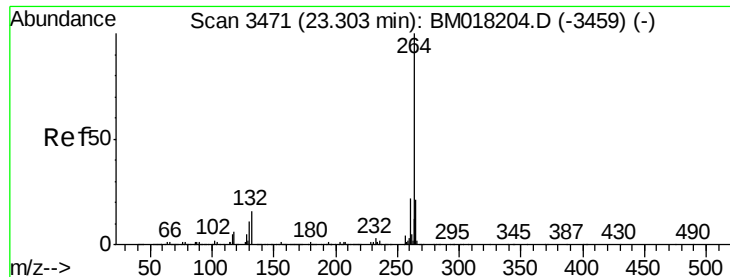
Abundance

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





#87

Pervlene-d12

Concen: 20.000 ng

RT: 23.31 min Scan# 3472

Delta R.T. 0.01 min

Lab File: BM018364.D

Acq: 21 Dec 2018 19:27

Instrument :

BNA_M

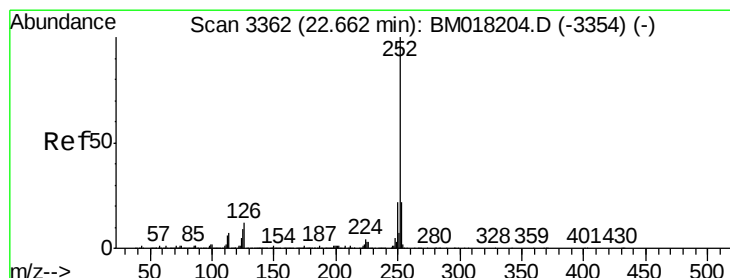
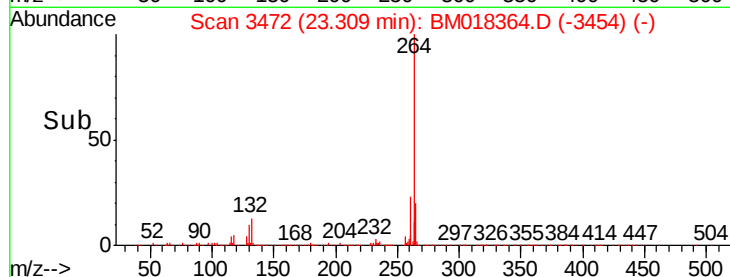
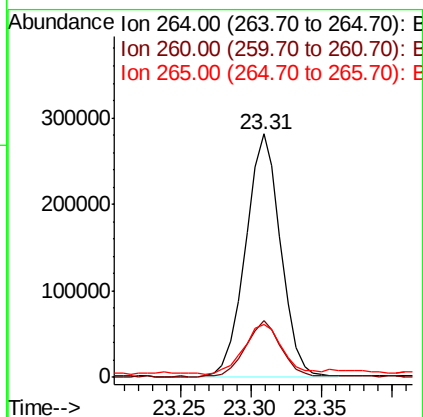
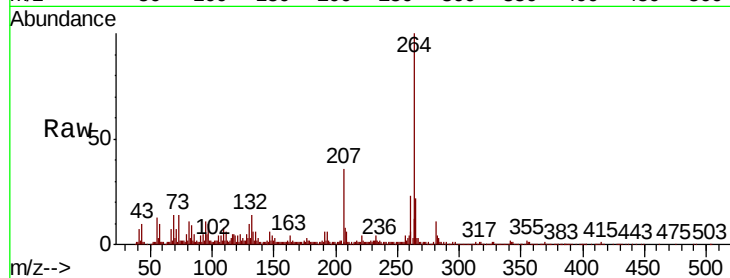
ClientSampleId :

P001-SS008-0006-01

Tot Ion:	264	Resp:	486522
Ion Ratio	Lower	Upper	
264	100		
260	23.4	17.5	26.3
265	21.8	17.3	25.9

Manual Integrations
APPROVED

Sohil
12/26/2018 3:20:06 PM



#88

Benzo(b)fluoranthene

Concen: 4.487 ng m

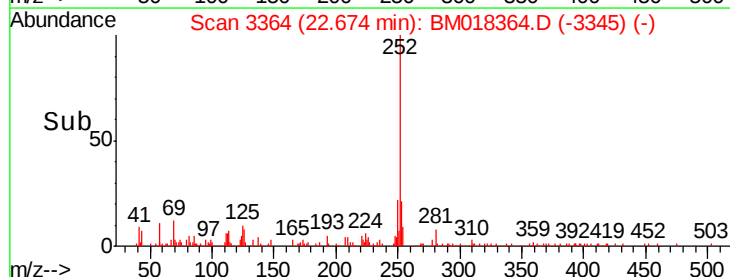
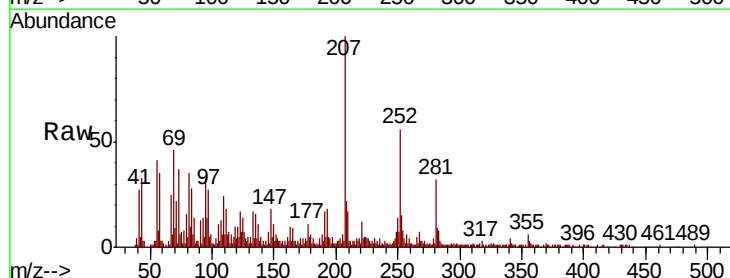
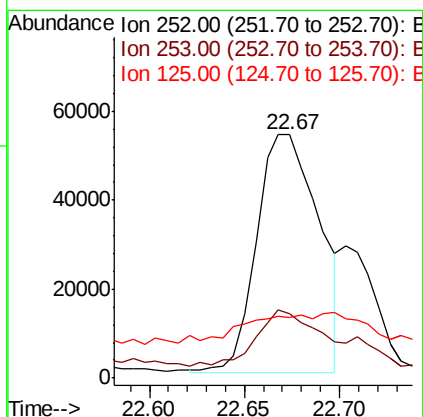
RT: 22.67 min Scan# 3364

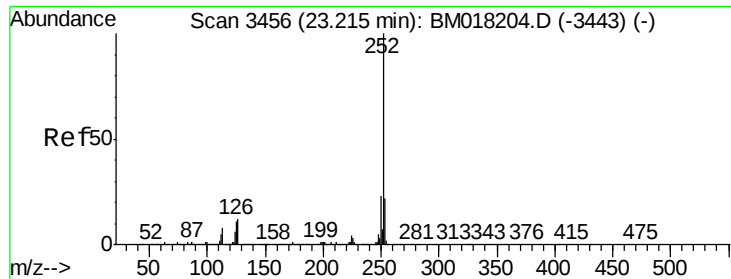
Delta R.T. 0.01 min

Lab File: BM018364.D

Acq: 21 Dec 2018 19:27

Tgt Ion:	252	Resp:	122636
Ion Ratio	Lower	Upper	
252	100		
253	26.2	17.6	26.4
125	24.8	7.4	11.0#





#90

Benzo(a)pyrene

Concen: 5.152 ng

RT: 23.21 min Scan# 3456

Delta R.T. -0.00 min

Lab File: BM018364.D

Acq: 21 Dec 2018 19:27

Instrument :

BNA_M

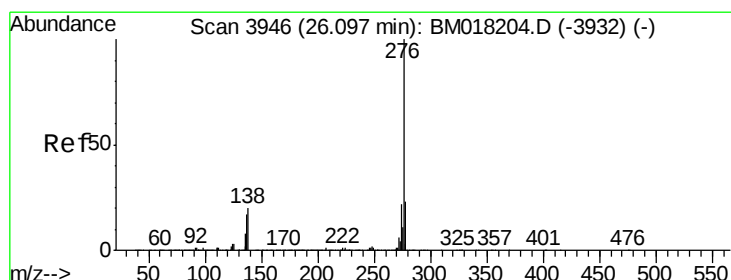
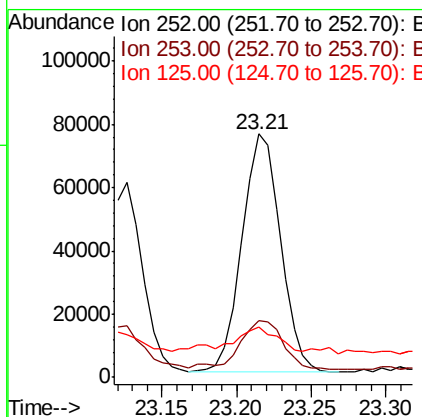
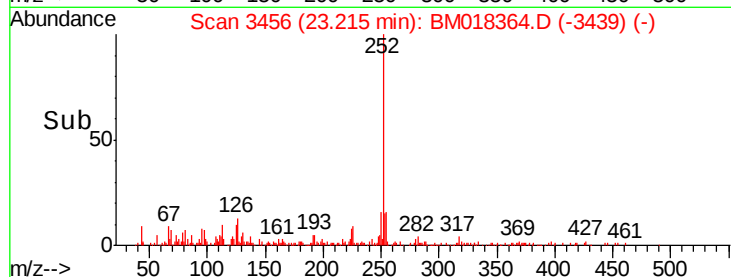
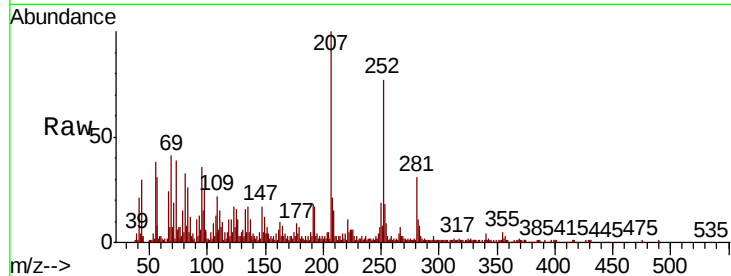
ClientSampleId :

P001-SS008-0006-01

Tot Ion:	252	Resp:	133918
Ion Ratio		Lower	Upper
252	100		
253	23.3	17.6	26.4
125	20.7	8.6	12.8#

Manual Integrations
APPROVED

Sohil
12/26/2018 3:20:06 PM



#92

Benzo(g,h,i)perylene

Concen: 4.909 ng

RT: 26.11 min Scan# 3948

Delta R.T. 0.01 min

Lab File: BM018364.D

Acq: 21 Dec 2018 19:27

Tgt Ion:	276	Resp:	111732
Ion Ratio		Lower	Upper
276	100		
277	28.5	18.7	28.1#
138	21.2	15.8	23.8

