

Data Path : Z:\HPCHEM1\BNA M\DATA\BM102717\
 Data File : BM012515.D
 Acq On : 28 Oct 2017 09:03
 Operator : SJ/JU
 Sample : I5786-02MS 5X
 Misc :
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 B-38(FILL)_100917MS

Manual Integrations
 APPROVED

Sohil
 10/30/2017 6:31:09 PM

Quant Time: Oct 30 07:04:51 2017
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM102417.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Oct 30 05:30:34 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.87	152	504439	20.00	ng/ul	0.00
18) Naphthalene-d8	10.66	136	1850030	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.50	164	1060102	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.24	188	2367483	20.00	ng/ul	0.00
75) Chrysene-d12	21.42	240	2766812	20.00	ng/ul	0.00
83) Perylene-d12	23.73	264	3098989	20.00	ng/ul	0.01

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.36	96	18221m	1.84	ng/uL	0.00
5) Phenol-d5	7.04	99	321549	7.63	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.20	67	197749	7.90	ng/ul	0.00
9) 2-Chlorophenol-d4	7.40	132	262076	8.30	ng/ul	0.00
13) 4-Methylphenol-d8	8.57	113	284583	7.90	ng/ul	0.00
19) Nitrobenzene-d5	9.02	128	114758	9.90	ng/ul	0.00
22) 2-Nitrophenol-d4	9.75	143	129009	10.81	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.29	165	259240	8.20	ng/ul	0.00
29) 4-Chloroaniline-d4	10.80	131	52227	1.57	ng/ul	0.00
43) Dimethylphthalate-d6	13.91	166	741123	8.00	ng/ul	0.00
46) Acenaphthylene-d8	14.19	160	935872	8.54	ng/ul	0.00
51) 4-Nitrophenol-d4	14.70	143	92169	6.69	ng/ul	0.00
57) Fluorene-d10	15.49	176	633374	8.08	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.62	200	52561	4.59	ng/ul	0.00
70) Anthracene-d10	17.34	188	977807	8.67	ng/ul	0.00
76) Pyrene-d10	19.63	212	1080323	8.51	ng/ul	0.00
87) Benzo(a)pyrene-d12	23.58	264	1218290	8.27	ng/ul	0.01

Target Compounds

					Ovalue	
6) Phenol	7.07	94	369930	8.431	ng/ul#	83
10) 2-Chlorophenol	7.44	128	235992	7.307	ng/ul	98
15) N-Nitroso-di-n-propylamine	8.67	70	165893	5.372	ng/ul#	66
28) Naphthalene	10.71	128	121649	1.326	ng/ul	97
33) 4-Chloro-3-methylphenol	11.95	107	223835	6.459	ng/ul	96
44) Dimethylphthalate	13.95	163	130283	1.422	ng/ul	98
47) Acenaphthylene	14.22	152	548823	5.249	ng/ul	99
49) Acenaphthene	14.56	153	604059	8.435	ng/ul	98
52) 4-Nitrophenol	14.71	109	75145	5.380	ng/ul	89
53) Dibenzofuran	14.90	168	148534	1.402	ng/ul	99
54) 2,4-Dinitrotoluene	14.86	165	142866	6.553	ng/ul#	82
58) Fluorene	15.55	166	198119	2.210	ng/ul	97
68) Pentachlorophenol	16.90	266	110454	6.438	ng/ul	98
69) Phenanthrene	17.29	178	4222483	32.981	ng/ul	99
71) Anthracene	17.37	178	1266086	9.568	ng/ul	98
72) Carbazole	17.64	167	434200	3.961	ng/ul	99
73) Di-n-butylphthalate	18.20	149	185311	1.326	ng/ul#	94
74) Fluoranthene	19.30	202	9894621	68.205	ng/ul#	91
77) Pyrene	19.66	202	9775894	62.132	ng/ul#	91
80) Benzo(a)anthracene	21.40	228	5884676	35.518	ng/ul	96
81) Bis(2-ethylhexyl)phthalate	21.33	149	10580019	112.180	ng/ul#	85
82) Chrysene	21.45	228	5413347	36.748	ng/ul	96
85) Benzo(b)fluoranthene	23.04	252	8458713	44.155	ng/ul#	97

Data Path : Z:\HPCHEM1\BNA M\DATA\BM102717\
Data File : BM012515.D
Acq On : 28 Oct 2017 09:03
Operator : SJ/JU
Sample : I5786-02MS 5X
Misc :
ALS Vial : 39 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-38(FILL)_100917MS

Manual Integrations
APPROVED

Sohil
10/30/2017 6:31:09 PM

Quant Time: Oct 30 07:04:51 2017
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM102417.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Oct 30 05:30:34 2017
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
86) Benzo(k)fluoranthene	23.07	252	2878684m	15.966	ng/ul	
88) Benzo(a)pyrene	23.63	252	6030902	33.019	ng/ul#	97
89) Indeno(1,2,3-cd)pyrene	26.08	276	4742158	22.060	ng/ul#	97
90) Dibenzo(a,h)anthracene	26.08	278	1284626	7.049	ng/ul#	89
91) Benzo(g,h,i)perylene	26.80	276	3574527	20.518	ng/ul#	95

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

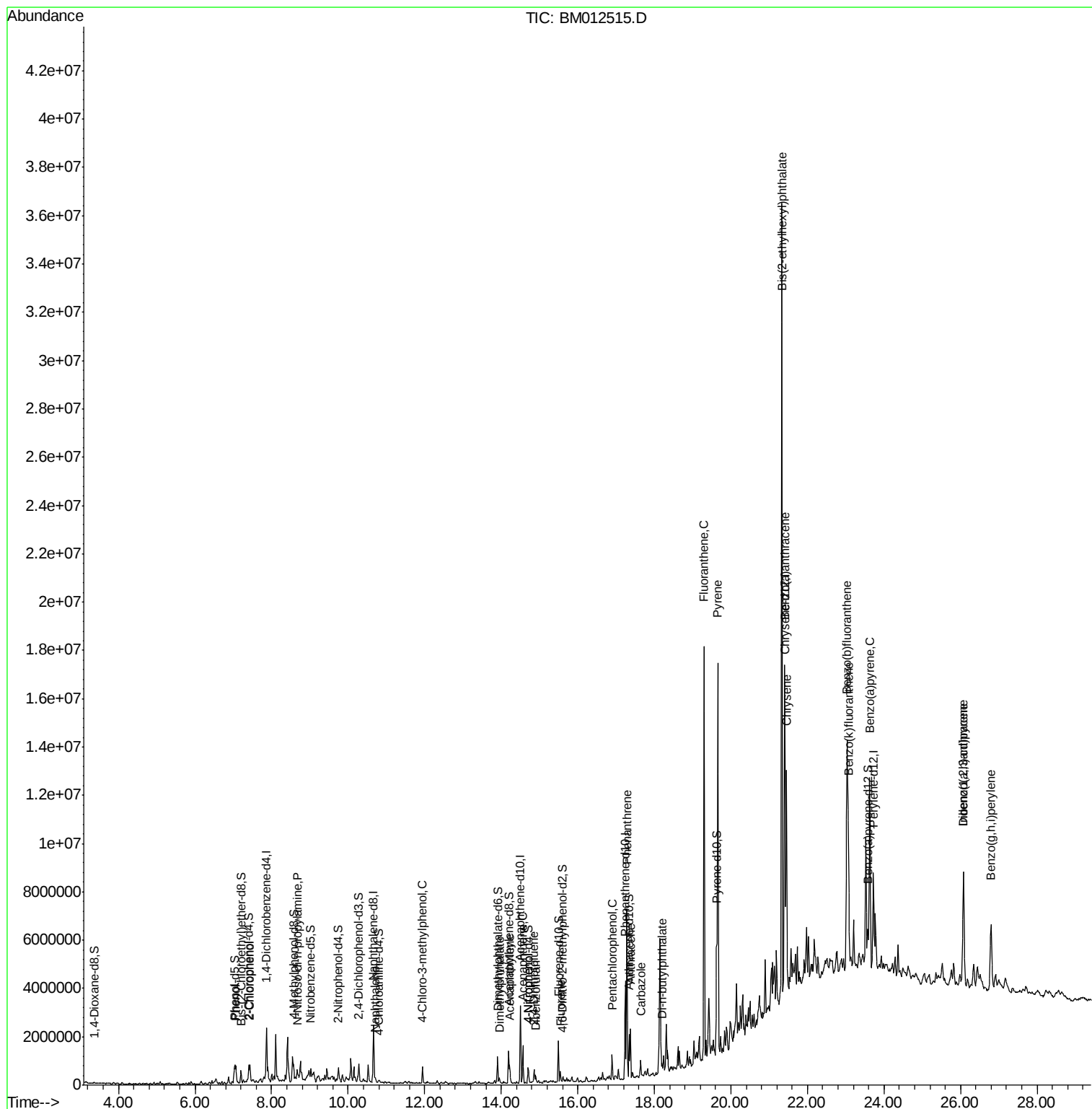
Data Path : Z:\HPCHEM1\BNA M\DATA\BM102717\
Data File : BM012515.D
Acq On : 28 Oct 2017 09:03
Operator : SJ/JU
Sample : I5786-02MS 5X
Misc :
ALS Vial : 39 Sample Multiplier: 1

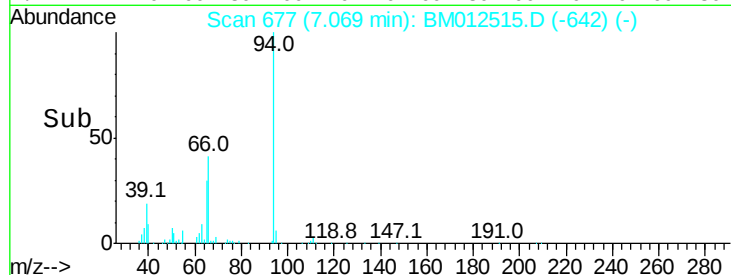
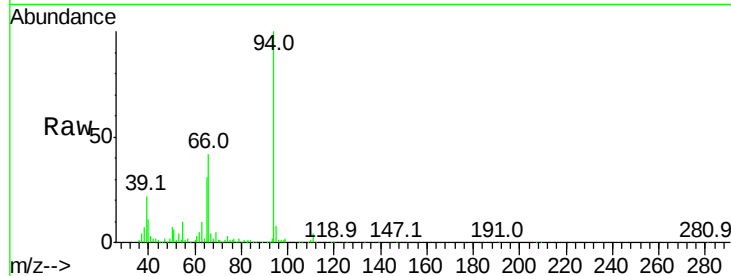
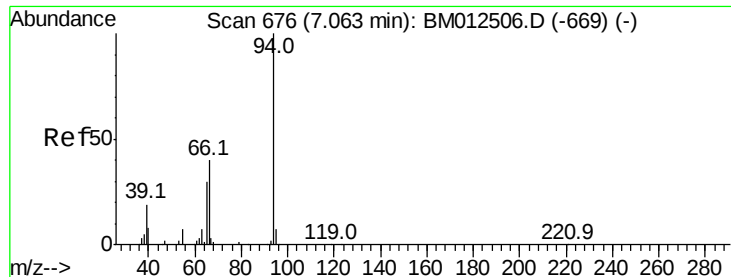
Instrument :
BNA_M
ClientSampleId :
B-38(FILL)_100917MS

Manual Integrations
APPROVED

Sohil
10/30/2017 6:31:09 PM

Quant Time: Oct 30 07:04:51 2017
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM102417.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Oct 30 05:30:34 2017
Response via : Initial Calibration





#6

Phenol

Concen: 8.431 ng/ul

RT: 7.07 min Scan# 677

Delta R.T. 0.01 min

Lab File: BM012515.D

Acq: 28 Oct 2017 09:03

Tot Ion:	94	Resp:	369930
Ion Ratio	Lower	Upper	
94	100		
65	31.2	28.2	42.4
66	41.5	47.2	70.8#

Instrument :

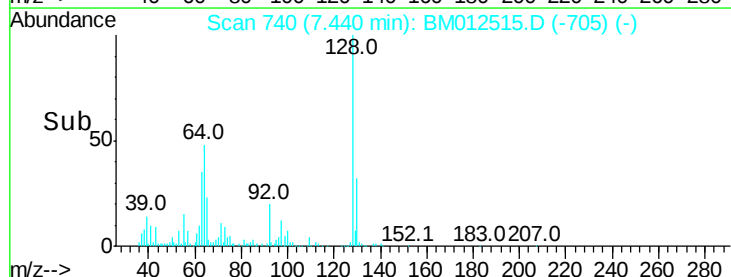
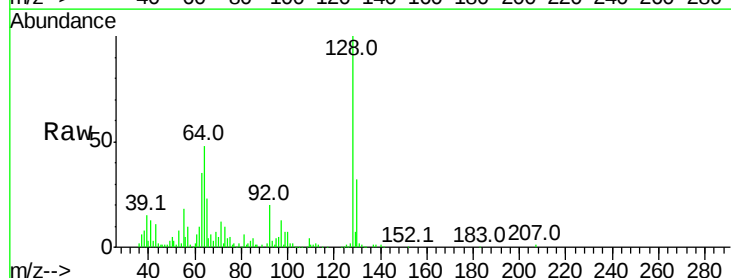
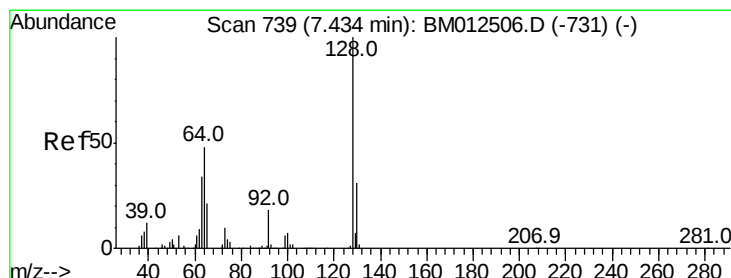
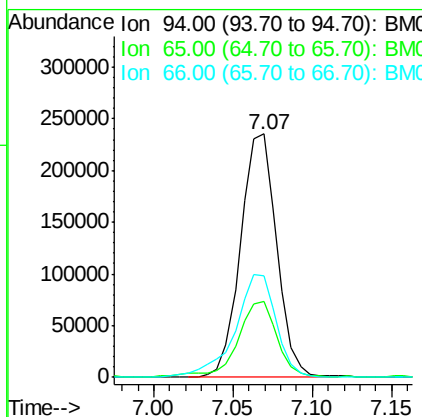
BNA_M

ClientSampleId :

B-38(FILL)_100917MS

Manual Integrations
APPROVED

Sohil
10/30/2017 6:31:09 PM



#10

2-Chlorophenol

Concen: 7.307 ng/ul

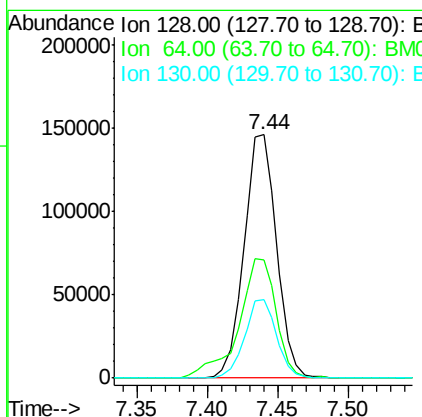
RT: 7.44 min Scan# 740

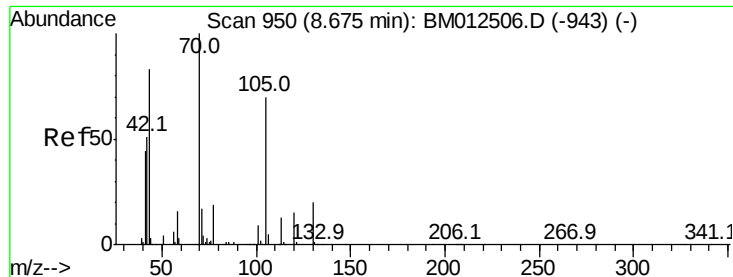
Delta R.T. 0.01 min

Lab File: BM012515.D

Acq: 28 Oct 2017 09:03

Tgt Ion:	128	Resp:	235992
Ion Ratio	Lower	Upper	
128	100		
64	48.4	38.0	57.0
130	32.3	24.4	36.6





#15

N-Nitroso-di-n-propylamine

Concen: 5.372 ng/ul

RT: 8.67 min Scan# 949

Delta R.T. -0.01 min

Lab File: BM012515.D

Acq: 28 Oct 2017 09:03

Instrument :

BNA_M

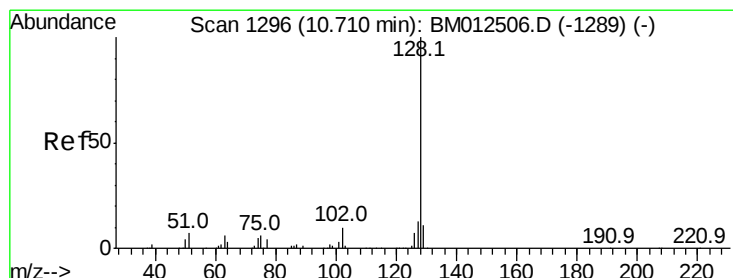
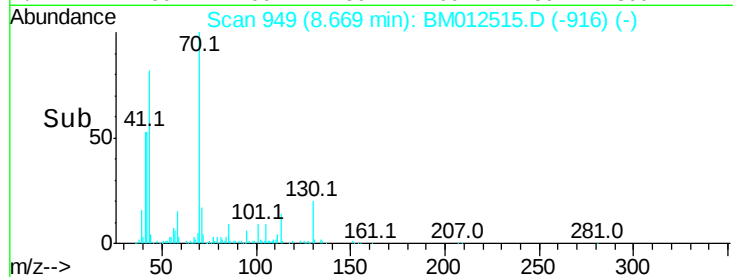
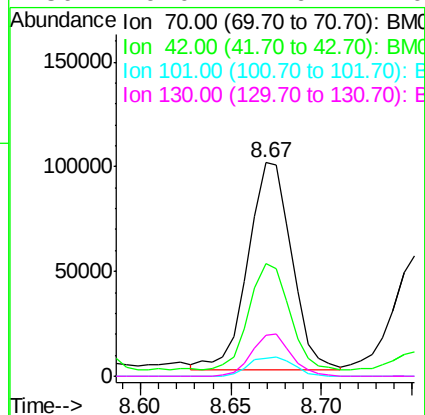
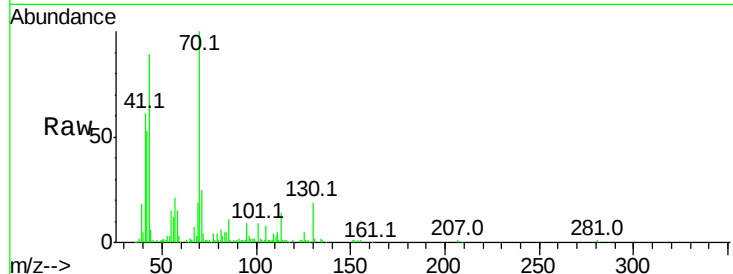
ClientSampleId :

B-38(FILL)_100917MS

Tot Ion	Ion	Ratio	Lower	Upper
70	100			
42	52.6	76.0	114.0#	
101	8.6	6.7	10.1	
130	19.0	14.6	22.0	

Manual Integrations
APPROVED

Sohil
10/30/2017 6:31:09 PM



#28

Naphthalene

Concen: 1.326 ng/ul

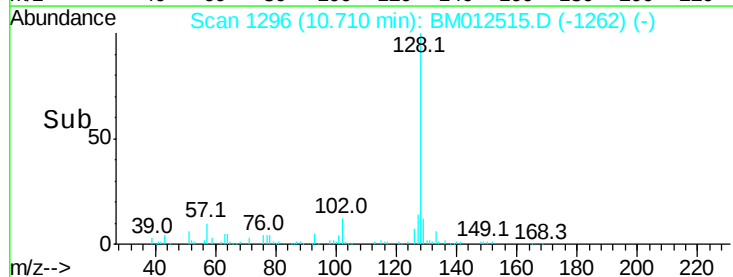
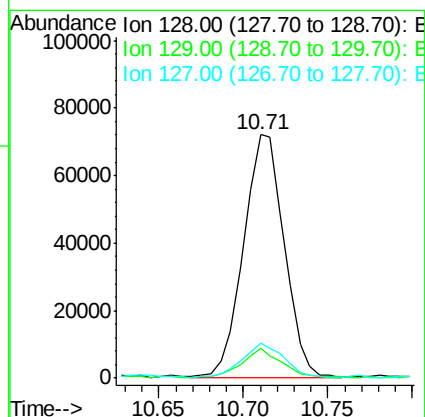
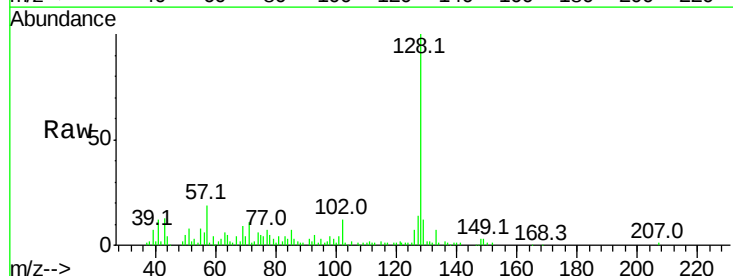
RT: 10.71 min Scan# 1296

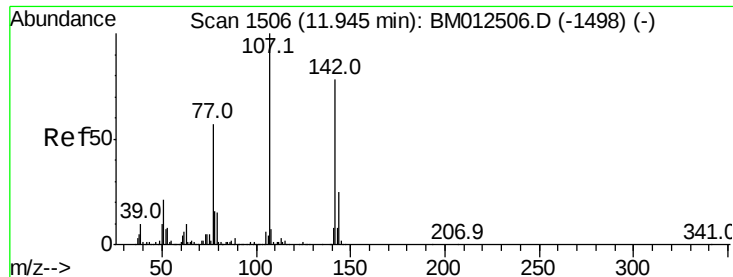
Delta R.T. 0.00 min

Lab File: BM012515.D

Acq: 28 Oct 2017 09:03

Tgt Ion	Ion	Ratio	Lower	Upper
128	100			
129	12.2	8.8	13.2	
127	14.3	10.6	16.0	





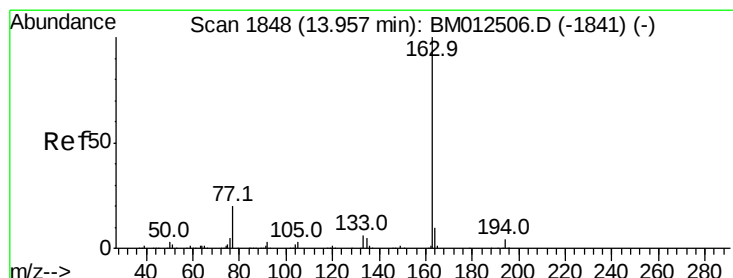
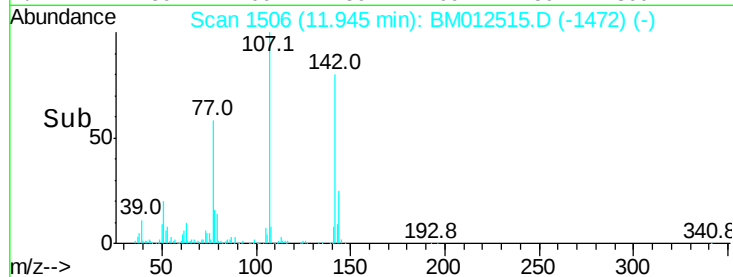
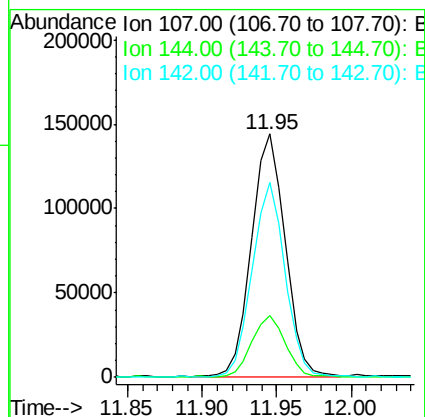
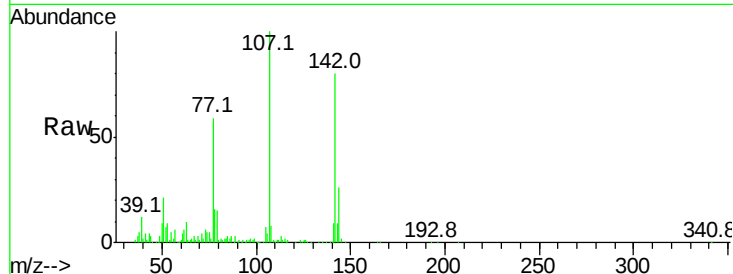
#33
 4-Chloro-3-methylphenol
 Concen: 6.459 ng/ul
 RT: 11.95 min Scan# 1506
 Delta R.T. 0.00 min
 Lab File: BM012515.D
 Acq: 28 Oct 2017 09:03

Instrument :
 BNA_M
 ClientSampleId :
 B-38(FILL)_100917MS

Tot Ion	Ratio	Resp	Lower	Upper
107	100			
144	25.5	20.4	30.6	
142	80.1	60.5	90.7	

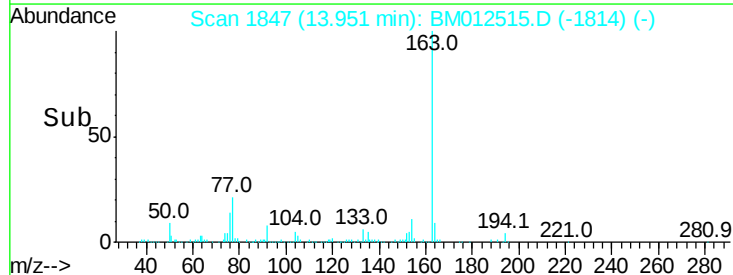
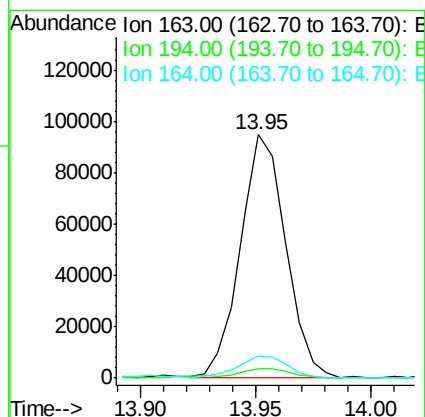
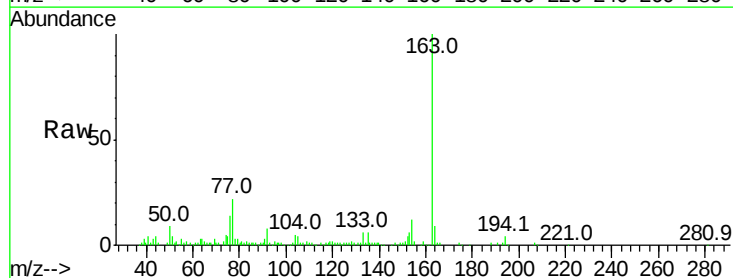
Manual Integrations
 APPROVED

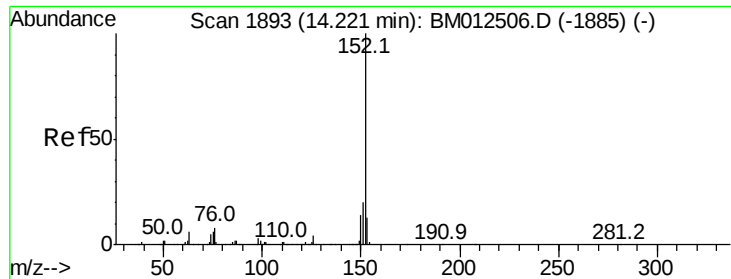
Sohil
 10/30/2017 6:31:09 PM



#44
 Dimethylphthalate
 Concen: 1.422 ng/ul
 RT: 13.95 min Scan# 1847
 Delta R.T. -0.01 min
 Lab File: BM012515.D
 Acq: 28 Oct 2017 09:03

Tgt Ion	Ratio	Resp	Lower	Upper
163	100			
194	3.9	3.5	5.3	
164	9.3	8.2	12.4	





#47

Acenaphthylene

Concen: 5.249 ng/ul

RT: 14.22 min Scan# 1893

Delta R.T. 0.00 min

Lab File: BM012515.D

Acq: 28 Oct 2017 09:03

Instrument :

BNA_M

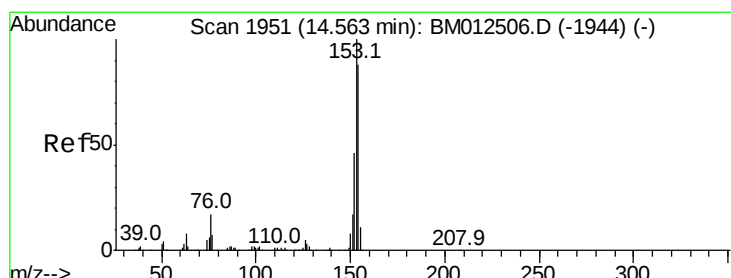
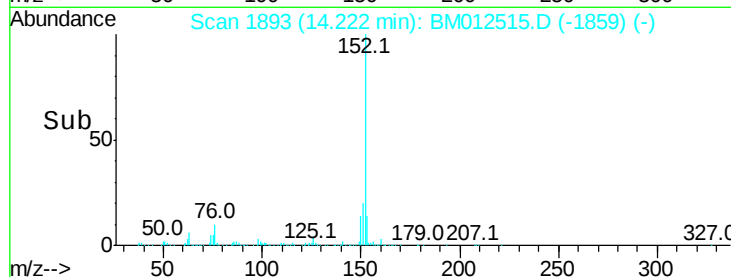
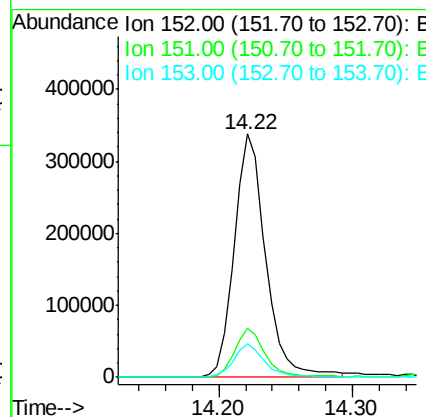
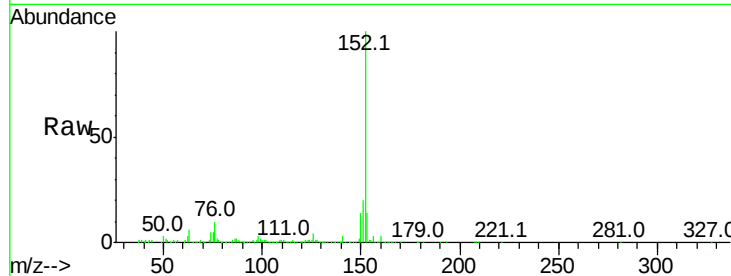
ClientSampleId :

B-38(FILL)_100917MS

Tot Ion:	152	Resp:	548823
Ion Ratio	Lower	Upper	
152	100		
151	20.2	16.3	24.5
153	13.6	10.2	15.4

Manual Integrations
APPROVED

Sohil
10/30/2017 6:31:09 PM



#49

Acenaphthene

Concen: 8.435 ng/ul

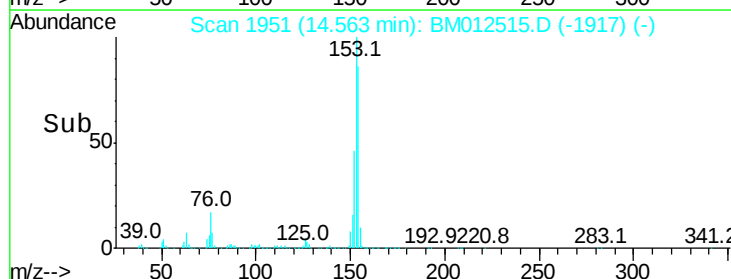
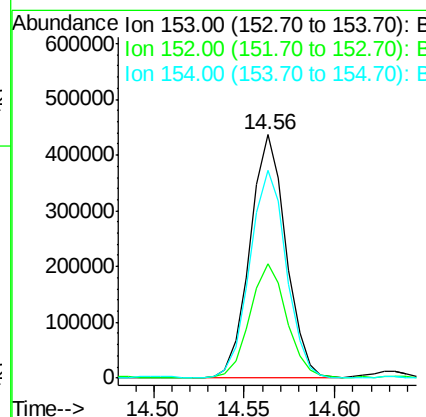
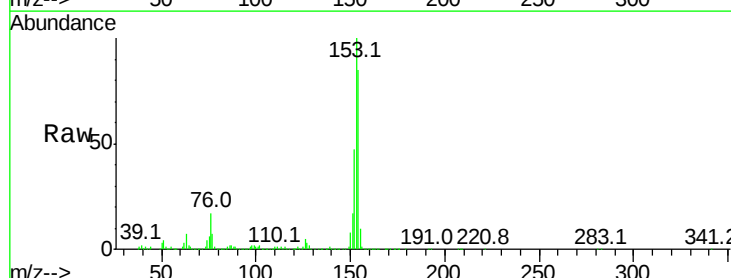
RT: 14.56 min Scan# 1951

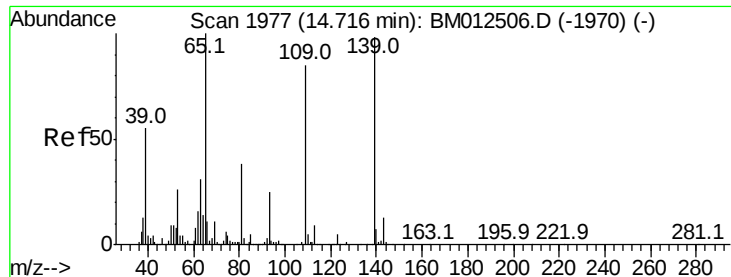
Delta R.T. 0.00 min

Lab File: BM012515.D

Acq: 28 Oct 2017 09:03

Tgt Ion:	153	Resp:	604059
Ion Ratio	Lower	Upper	
153	100		
152	46.8	37.6	56.4
154	85.4	70.4	105.6





#52

4-Nitrophenol

Concen: 5.380 ng/ul

RT: 14.71 min Scan# 1976

Delta R.T. -0.01 min

Lab File: BM012515.D

Acq: 28 Oct 2017 09:03

Instrument :

BNA_M

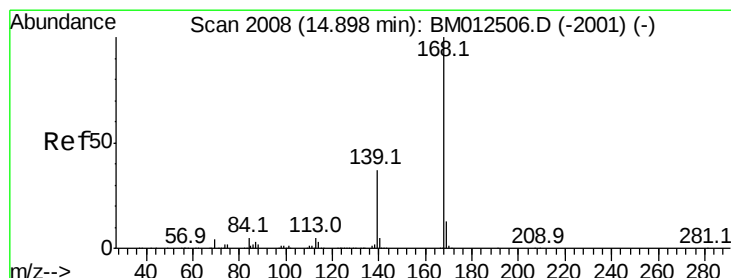
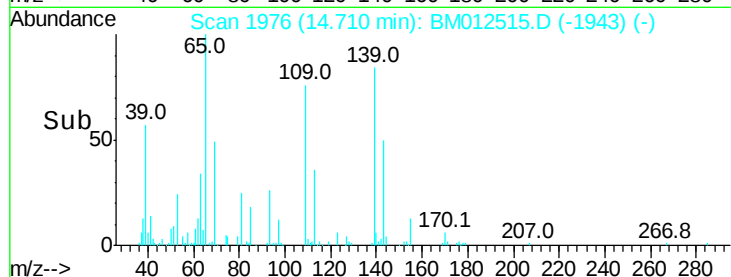
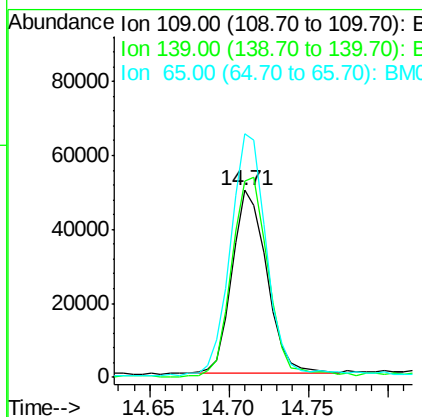
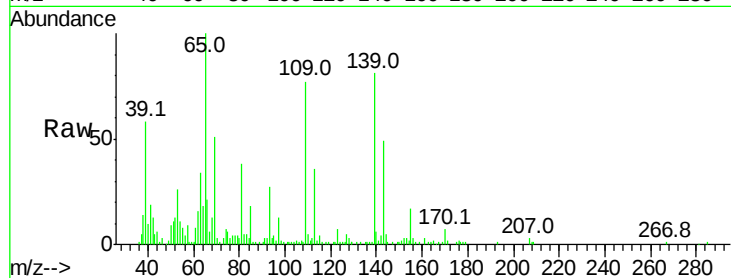
ClientSampleId :

B-38(FILL)_100917MS

Tot Ion	Ratio	Lower	Upper
109	100		
139	105.3	80.0	120.0
65	130.1	120.0	180.0

Manual Integrations
APPROVED

Sohil
10/30/2017 6:31:09 PM



#53

Dibenzofuran

Concen: 1.402 ng/ul

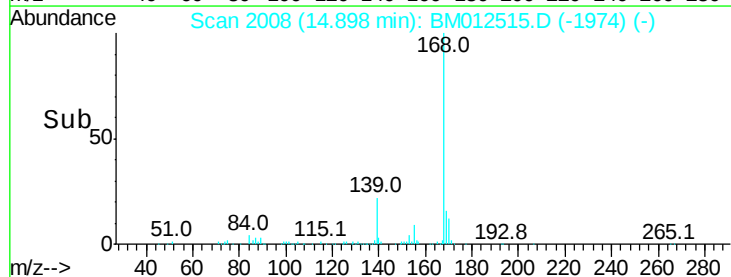
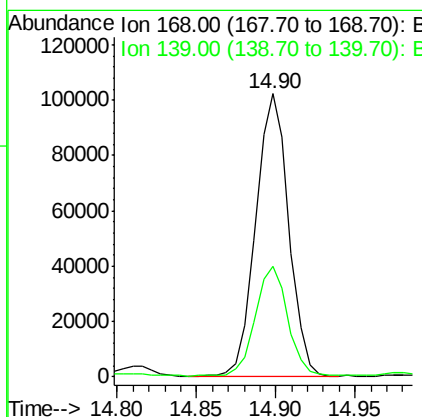
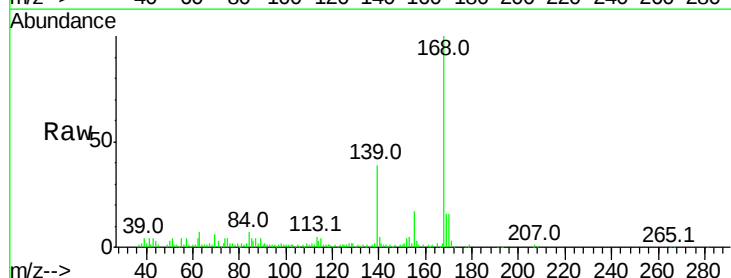
RT: 14.90 min Scan# 2008

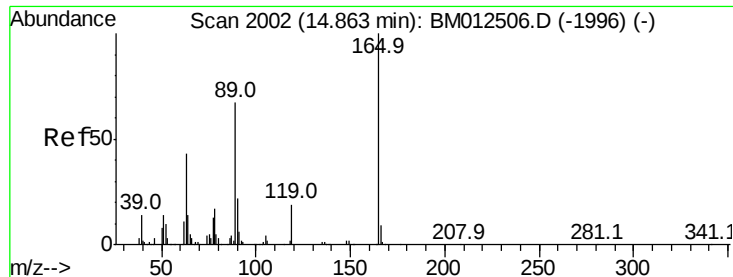
Delta R.T. 0.00 min

Lab File: BM012515.D

Acq: 28 Oct 2017 09:03

Tgt Ion	Ratio	Lower	Upper
168	100		
139	39.3	30.8	46.2





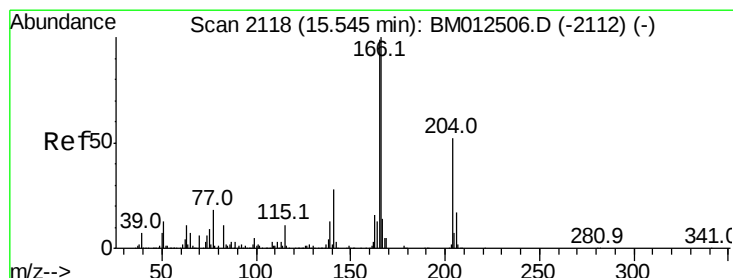
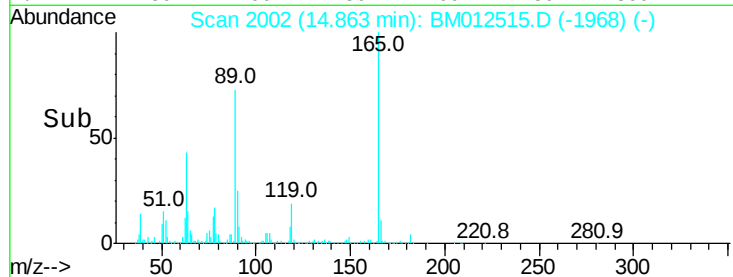
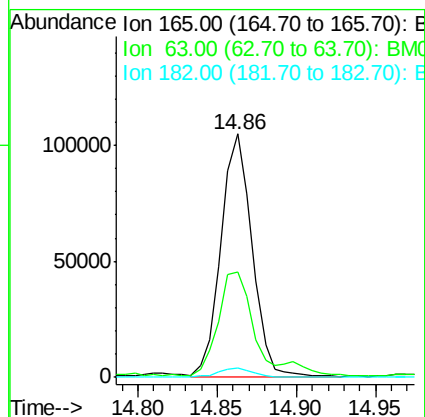
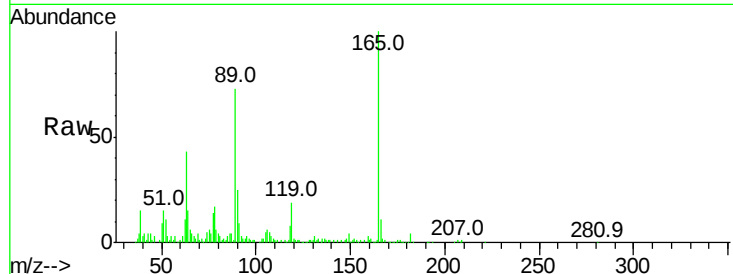
#54
 2,4-Dinitrotoluene
 Concen: 6.553 ng/ul
 RT: 14.86 min Scan# 2002
 Delta R.T. 0.00 min
 Lab File: BM012515.D
 Acq: 28 Oct 2017 09:03

Instrument :
 BNA_M
 ClientSampleId :
 B-38(FILL)_100917MS

Tot Ion	Ratio	Resp	Lower	Upper
165	100			
63	43.1	45.8	68.8#	
182	4.0	2.6	4.0#	

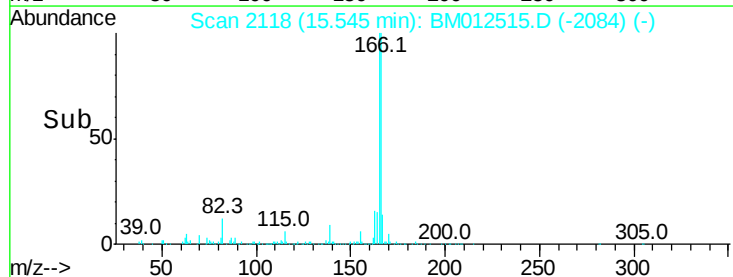
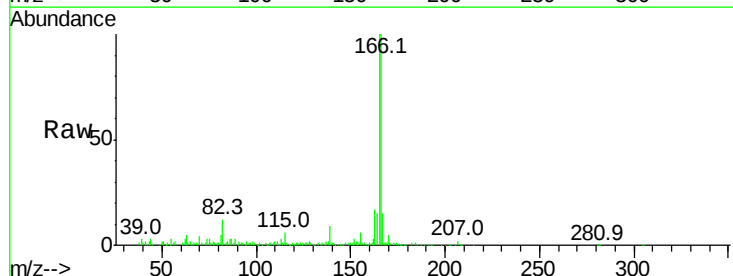
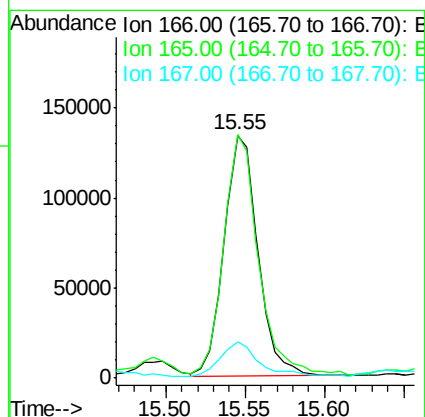
Manual Integrations
 APPROVED

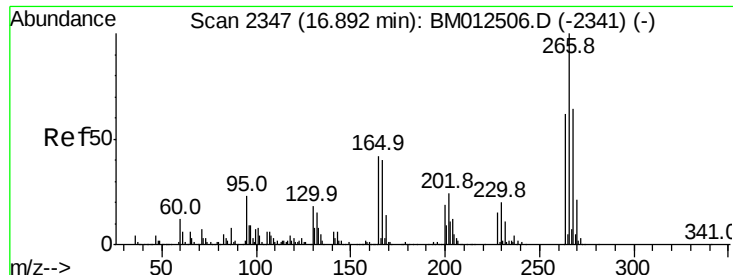
Sohil
 10/30/2017 6:31:09 PM



#58
 Fluorene
 Concen: 2.210 ng/ul
 RT: 15.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: BM012515.D
 Acq: 28 Oct 2017 09:03

Tgt Ion	Ratio	Resp	Lower	Upper
166	100			
165	100.4	77.9	116.9	
167	14.8	10.6	16.0	





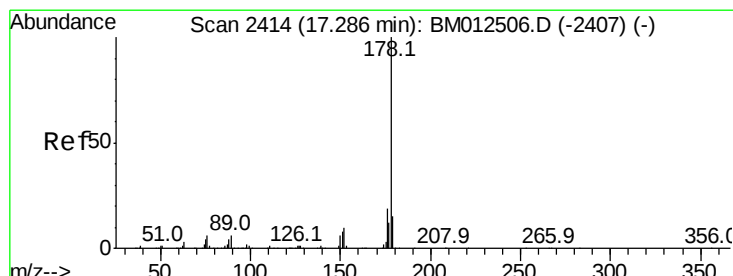
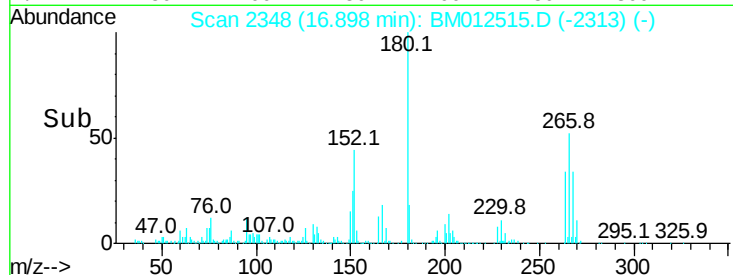
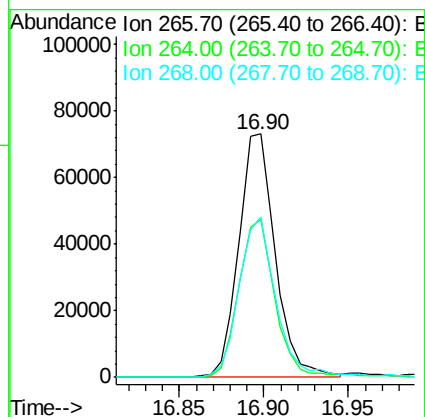
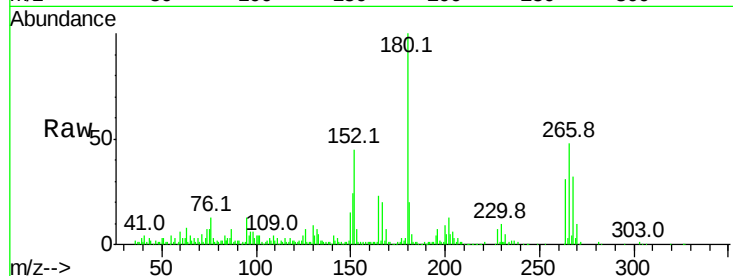
#68
 Pentachlorophenol
 Concen: 6.438 ng/ul
 RT: 16.90 min Scan# 2348
 Delta R.T. 0.01 min
 Lab File: BM012515.D
 Acq: 28 Oct 2017 09:03

Instrument :
 BNA_M
 ClientSampleId :
 B-38(FILL)_100917MS

Tot Ion	Ratio	Lower	Upper
266	100		
264	64.8	49.3	73.9
268	65.8	52.6	78.8

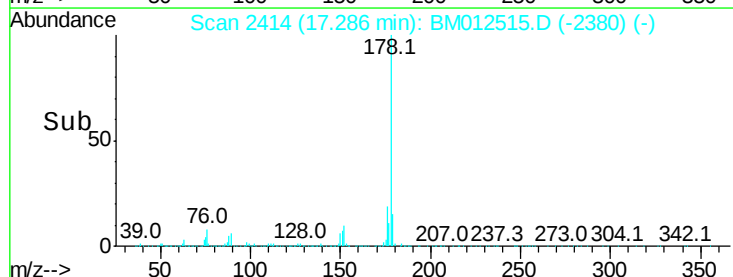
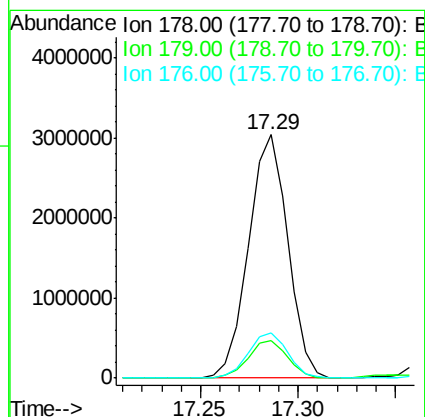
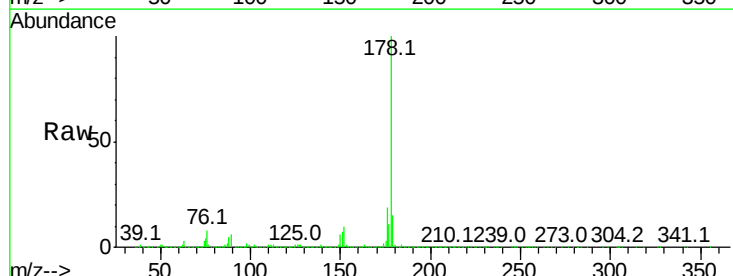
Manual Integrations
 APPROVED

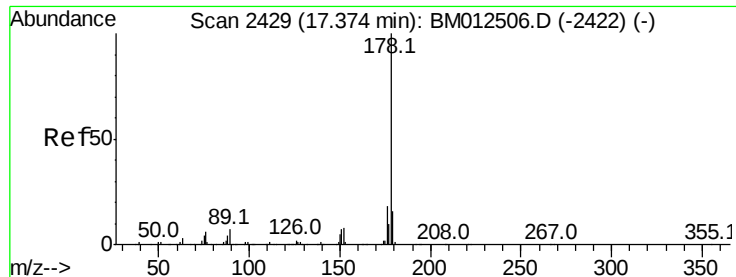
Sohil
 10/30/2017 6:31:09 PM



#69
 Phenanthrene
 Concen: 32.981 ng/ul
 RT: 17.29 min Scan# 2414
 Delta R.T. 0.00 min
 Lab File: BM012515.D
 Acq: 28 Oct 2017 09:03

Tgt Ion	Ratio	Lower	Upper
178	100		
179	15.2	12.6	19.0
176	18.8	14.9	22.3





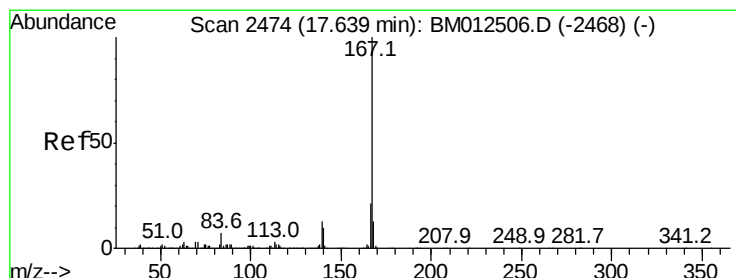
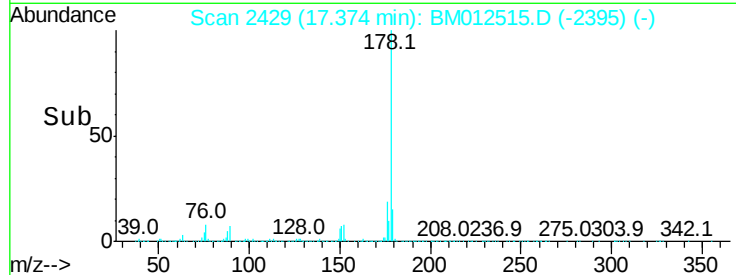
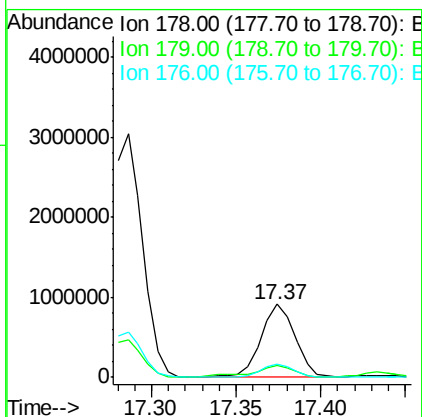
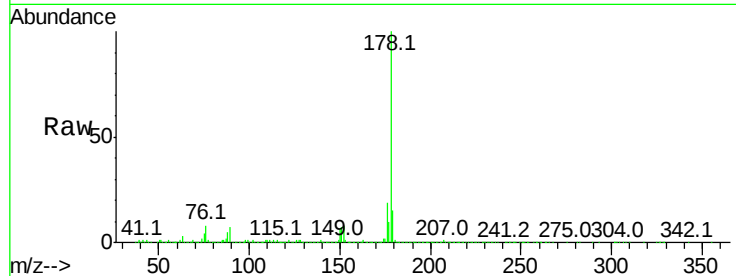
#71
 Anthracene
 Concen: 9.568 ng/ul
 RT: 17.37 min Scan# 2429
 Delta R.T. 0.00 min
 Lab File: BM012515.D
 Acq: 28 Oct 2017 09:03

Instrument :
 BNA_M
 ClientSampleId :
 B-38(FILL)_100917MS

Tot Ion	Ratio	Lower	Upper
178	100		
179	15.5	11.7	17.5
176	18.8	14.6	21.8

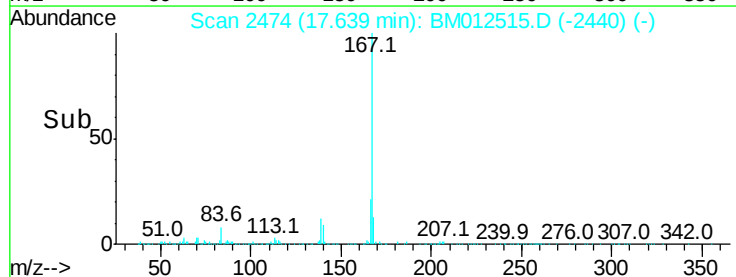
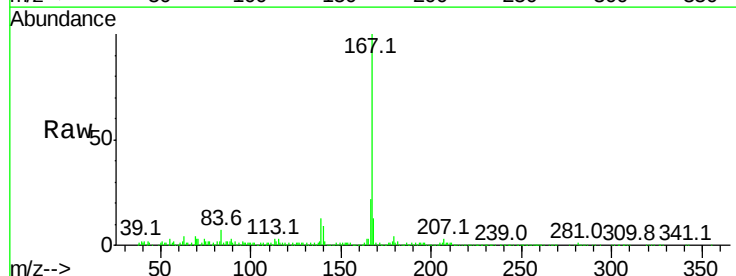
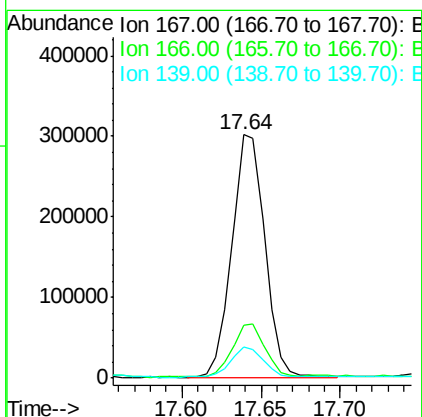
Manual Integrations
 APPROVED

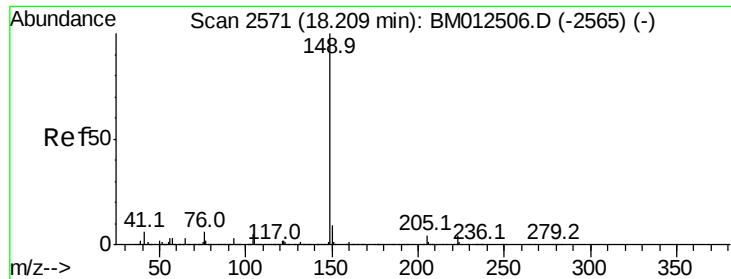
Sohil
 10/30/2017 6:31:09 PM



#72
 Carbazole
 Concen: 3.961 ng/ul
 RT: 17.64 min Scan# 2474
 Delta R.T. 0.00 min
 Lab File: BM012515.D
 Acq: 28 Oct 2017 09:03

Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.7	17.1	25.7
139	12.6	10.0	15.0





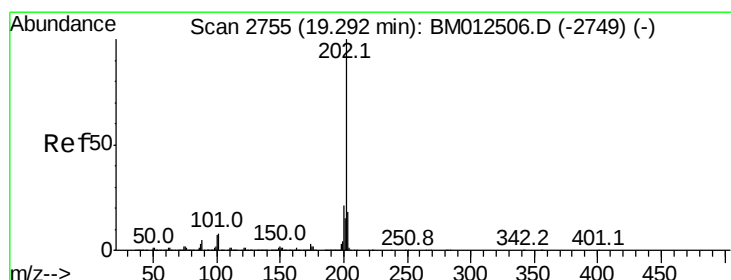
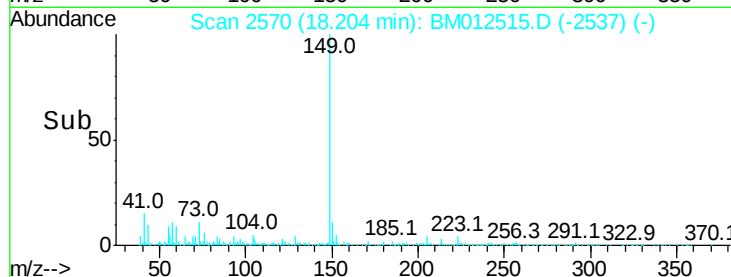
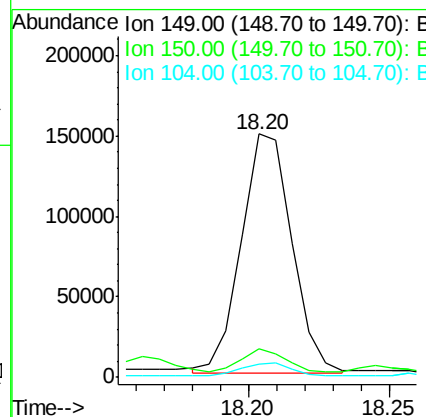
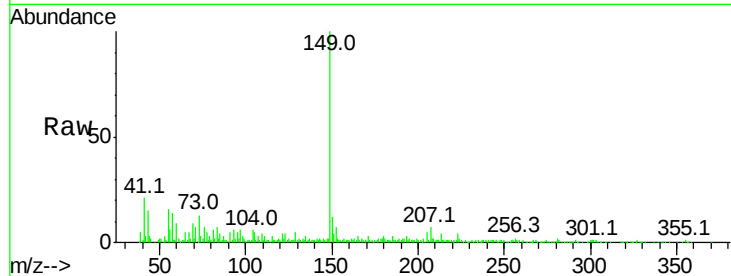
#73
Di-n-butylphthalate
Concen: 1.326 ng/ul
RT: 18.20 min Scan# 2570
Delta R.T. -0.01 min
Lab File: BM012515.D
Acq: 28 Oct 2017 09:03

Instrument :
BNA_M
ClientSampleId :
B-38(FILL)_100917MS

Tot Ion	Ratio	Resp	Lower	Upper
149	100			
150	11.6	7.1	10.7#	
104	5.5	5.6	8.4#	

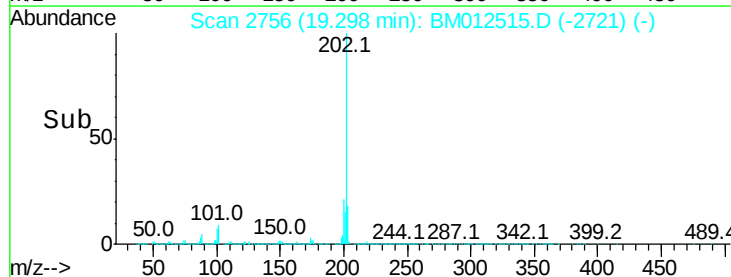
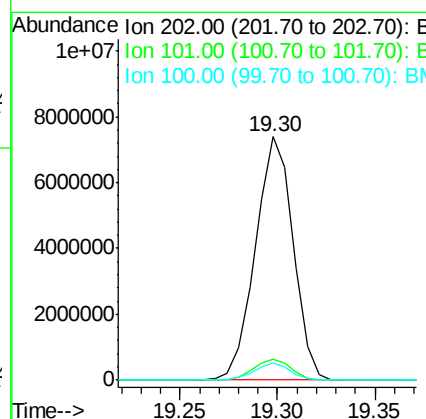
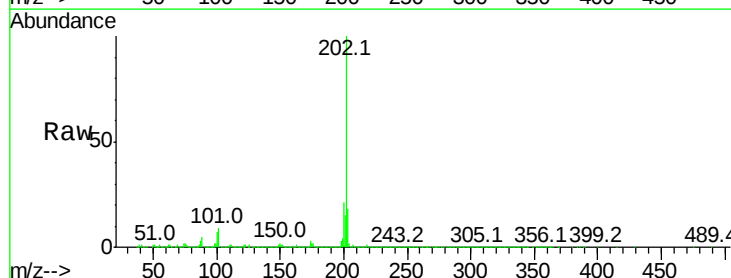
Manual Integrations
APPROVED

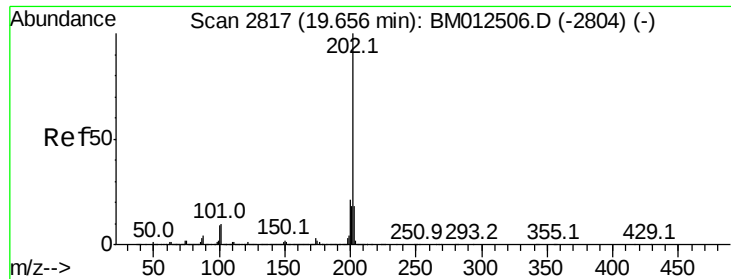
Sohil
10/30/2017 6:31:09 PM



#74
Fluoranthene
Concen: 68.205 ng/ul
RT: 19.30 min Scan# 2756
Delta R.T. 0.01 min
Lab File: BM012515.D
Acq: 28 Oct 2017 09:03

Tgt Ion	Ratio	Resp	Lower	Upper
202	100			
101	8.8	4.6	7.0#	
100	6.9	3.4	5.2#	





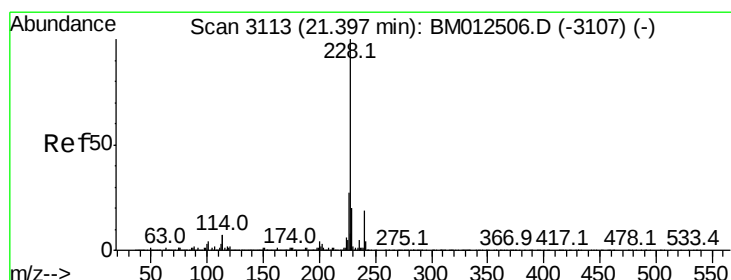
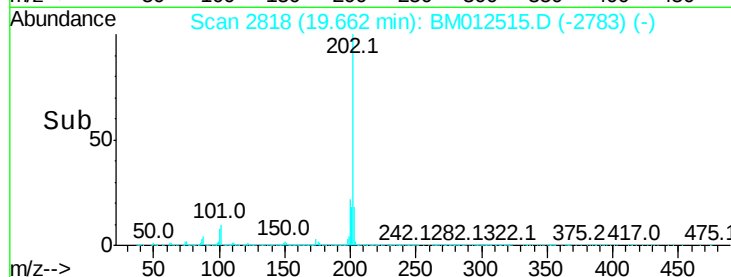
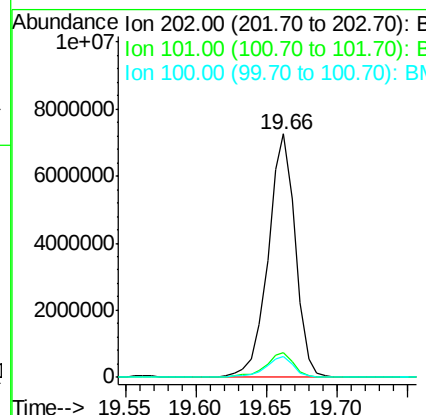
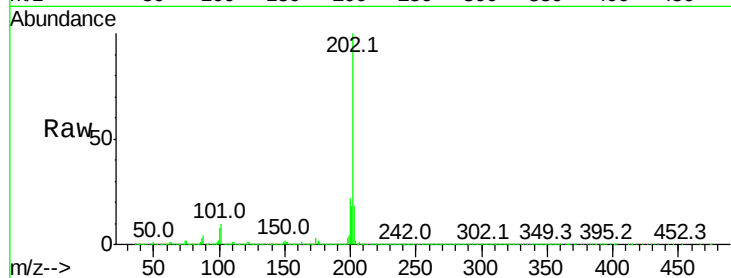
#77
Pvrene
Concen: 62.132 ng/ul
RT: 19.66 min Scan# 2818
Delta R.T. 0.01 min
Lab File: BM012515.D
Acq: 28 Oct 2017 09:03

Instrument :
BNA_M
ClientSampleId :
B-38(FILL)_100917MS

Tot Ion	Ratio	Lower	Upper
202	100		
101	10.1	5.1	7.7#
100	8.4	4.9	7.3#

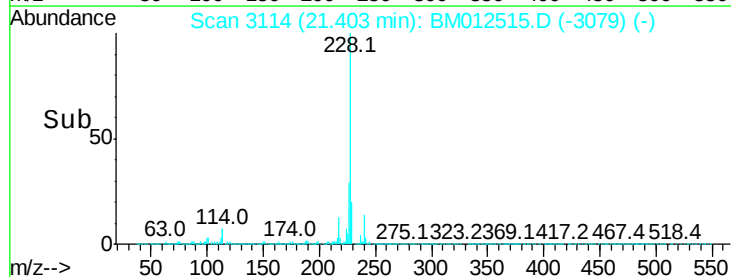
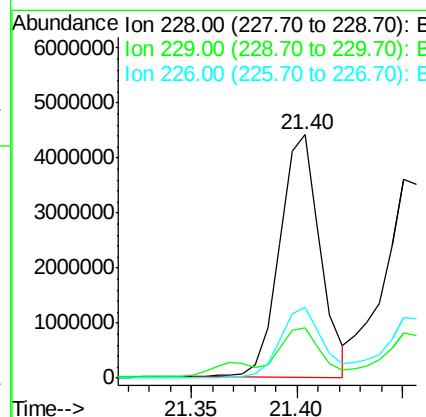
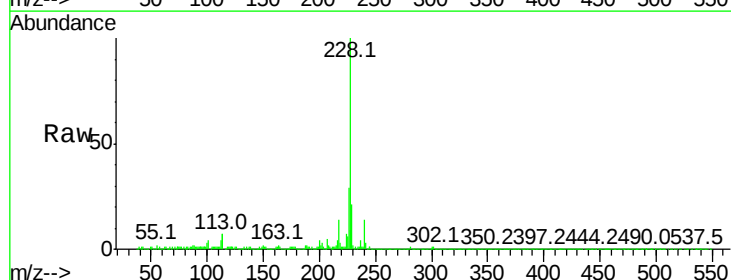
Manual Integrations
APPROVED

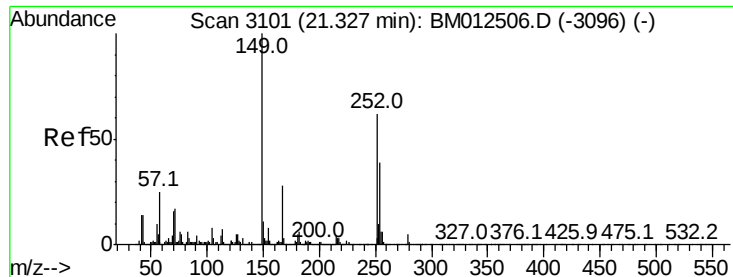
Sohil
10/30/2017 6:31:09 PM



#80
Benzo(a)anthracene
Concen: 35.518 ng/ul
RT: 21.40 min Scan# 3114
Delta R.T. 0.01 min
Lab File: BM012515.D
Acq: 28 Oct 2017 09:03

Tgt Ion	Ratio	Lower	Upper
228	100		
229	20.8	15.4	23.0
226	29.3	21.4	32.0





#81

Bis(2-ethylhexyl)phthalate

Concen: 112.180 ng/ul

RT: 21.33 min Scan# 3102

Delta R.T. 0.01 min

Lab File: BM012515.D

Acq: 28 Oct 2017 09:03

Instrument :

BNA_M

ClientSampleId :

B-38(FILL)_100917MS

Tot Ion:149 Resp:10580019

Ion Ratio Lower Upper

149 100

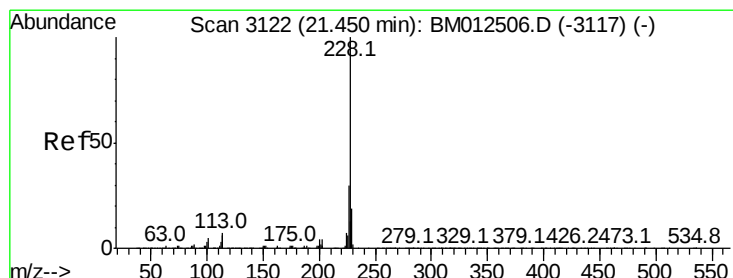
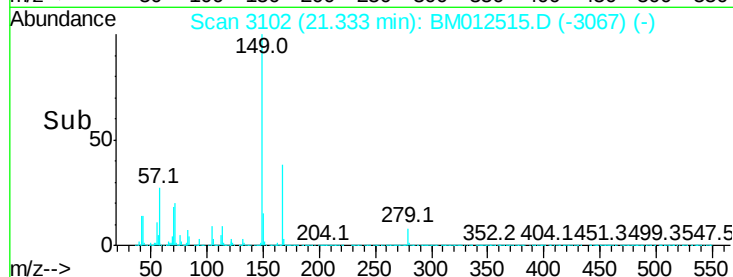
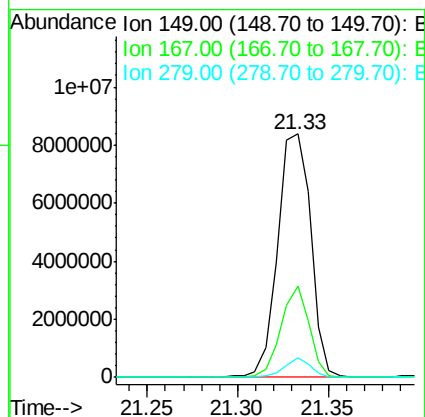
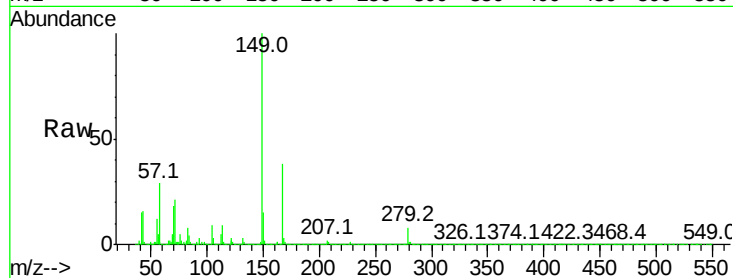
167 37.6 22.8 34.2#

279 7.9 4.9 7.3#

Manual Integrations
APPROVED

Sohil

10/30/2017 6:31:09 PM



#82

Chrysene

Concen: 36.748 ng/ul

RT: 21.45 min Scan# 3122

Delta R.T. 0.00 min

Lab File: BM012515.D

Acq: 28 Oct 2017 09:03

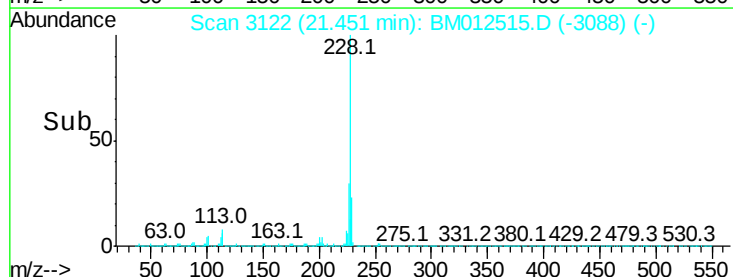
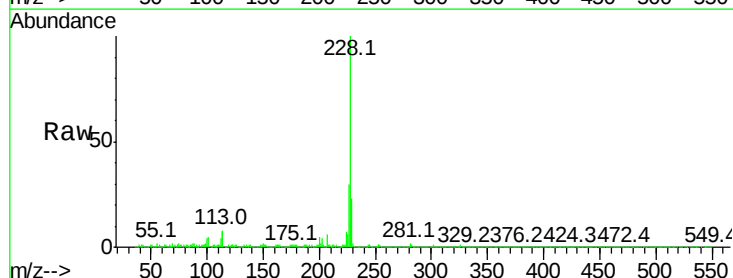
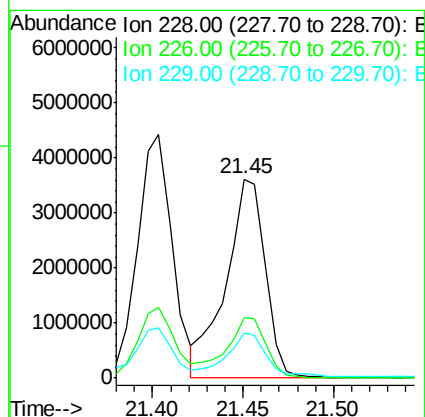
Tgt Ion:228 Resp: 5413347

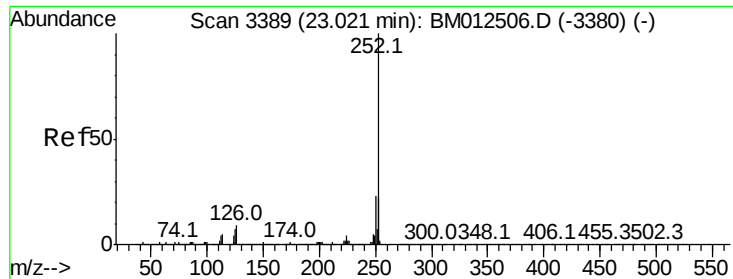
Ion Ratio Lower Upper

228 100

226 30.3 23.4 35.2

229 23.0 15.5 23.3





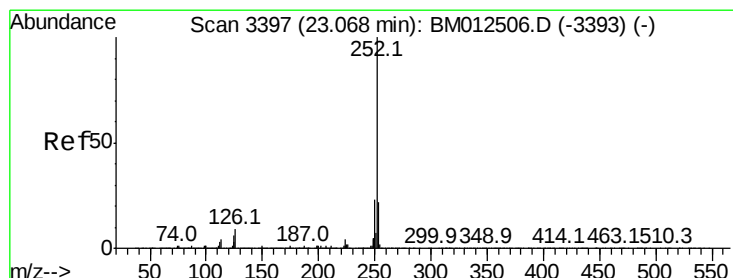
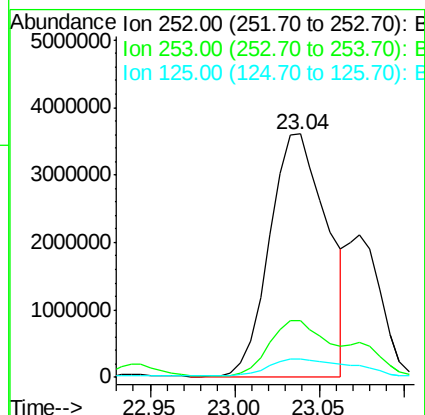
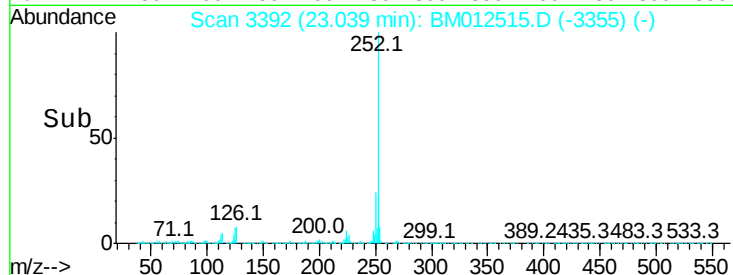
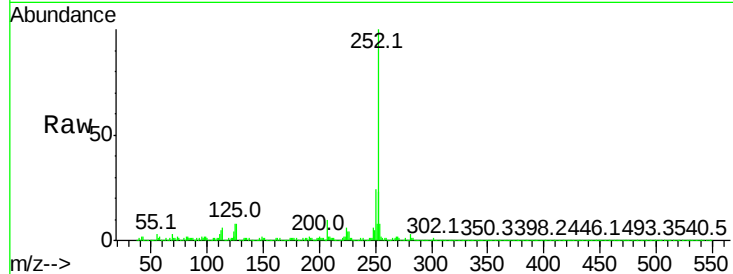
#85
Benzo(b)fluoranthene
Concen: 44.155 ng/ul
RT: 23.04 min Scan# 3392
Delta R.T. 0.02 min
Lab File: BM012515.D
Acq: 28 Oct 2017 09:03

Instrument :
BNA_M
ClientSampleId :
B-38(FILL)_100917MS

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.9	26.9
125	7.6	3.6	5.4

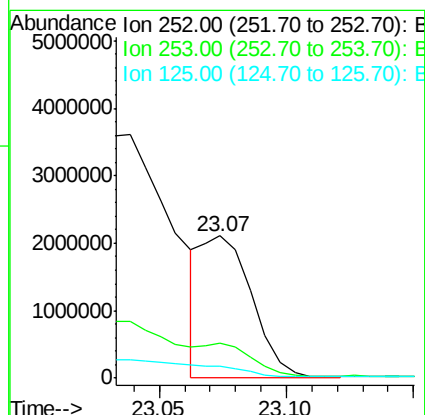
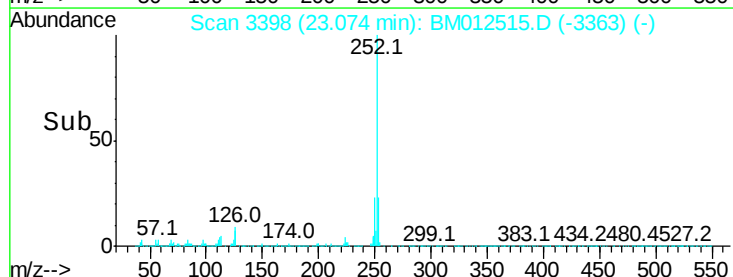
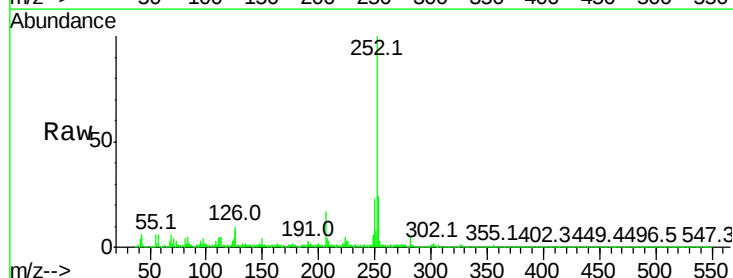
Manual Integrations
APPROVED

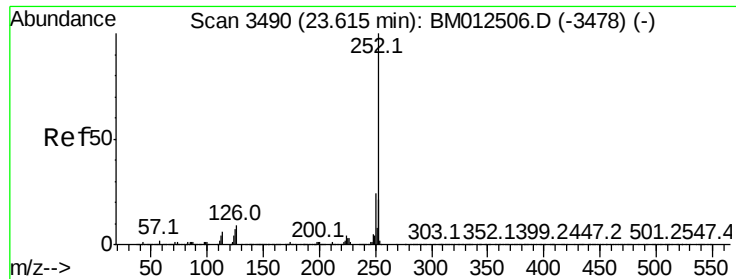
Sohil
10/30/2017 6:31:09 PM



#86
Benzo(k)fluoranthene
Concen: 15.966 ng/ul m
RT: 23.07 min Scan# 3398
Delta R.T. 0.01 min
Lab File: BM012515.D
Acq: 28 Oct 2017 09:03

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.2	17.1	25.7
125	8.1	3.4	5.2





#88

Benzo(a)pyrene

Concen: 33.019 ng/ul

RT: 23.63 min Scan# 3492

Delta R.T. 0.01 min

Lab File: BM012515.D

Acq: 28 Oct 2017 09:03

Instrument :

BNA_M

ClientSampleId :

B-38(FILL)_100917MS

Tot Ion:252 Resp: 6030902

Ion Ratio Lower Upper

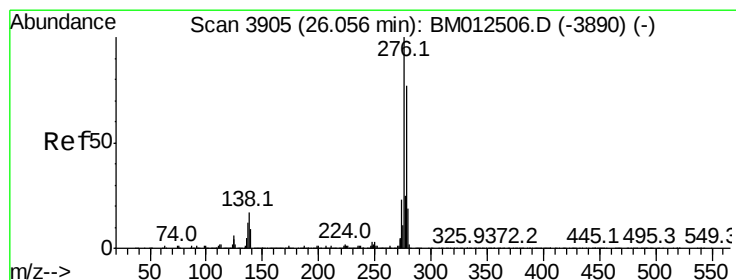
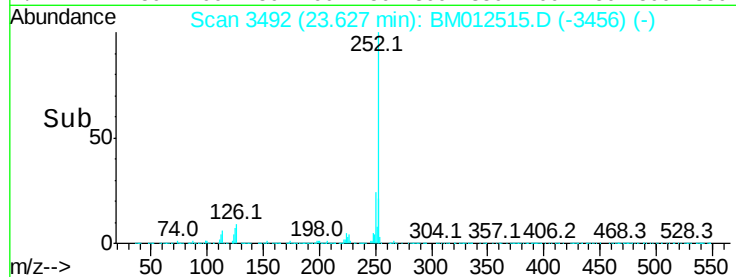
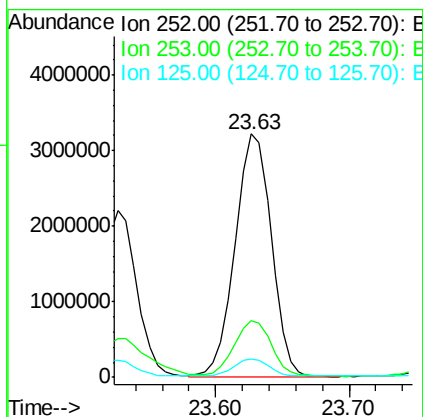
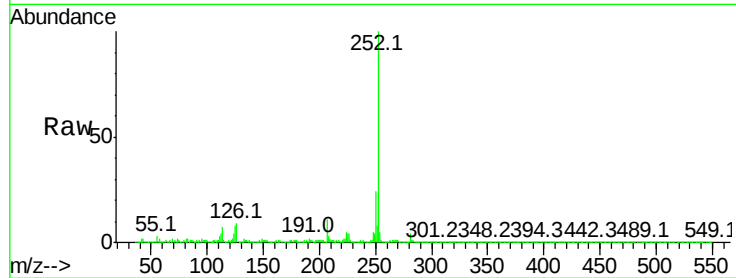
252 100

253 23.4 18.2 27.2

125 7.7 4.0 6.0#

Manual Integrations
APPROVED

Sohil
10/30/2017 6:31:09 PM



#89

Indeno(1,2,3-cd)pyrene

Concen: 22.060 ng/ul

RT: 26.08 min Scan# 3909

Delta R.T. 0.02 min

Lab File: BM012515.D

Acq: 28 Oct 2017 09:03

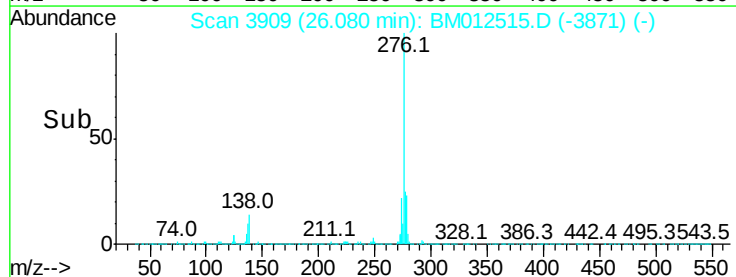
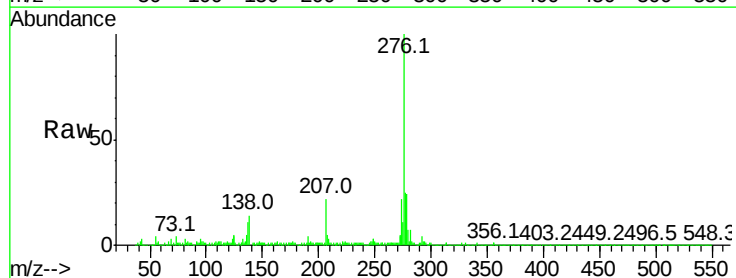
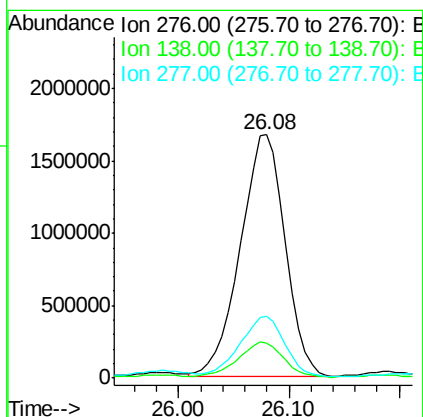
Tgt Ion:276 Resp: 4742158

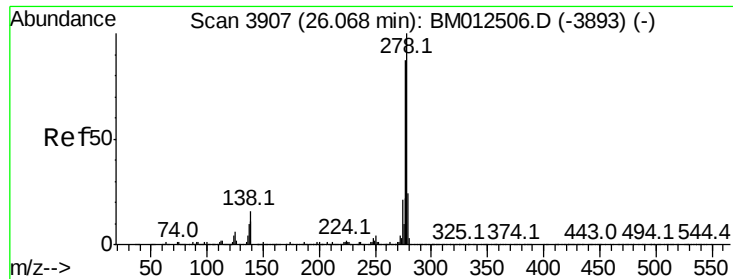
Ion Ratio Lower Upper

276 100

138 14.4 9.3 13.9#

277 25.2 19.9 29.9





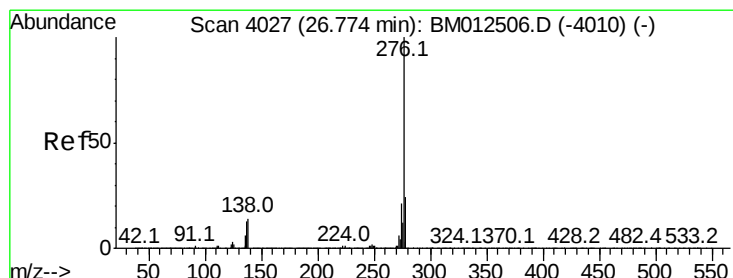
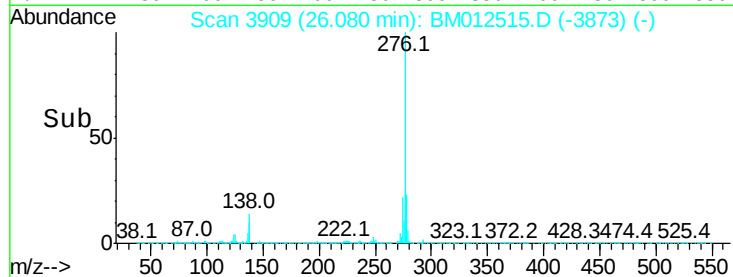
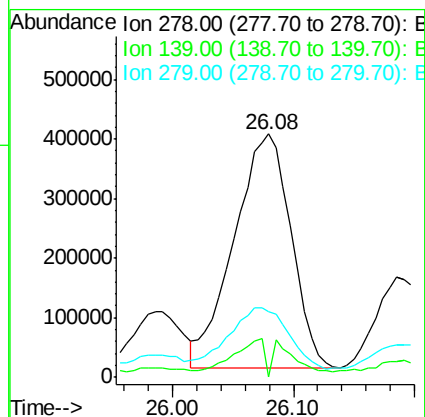
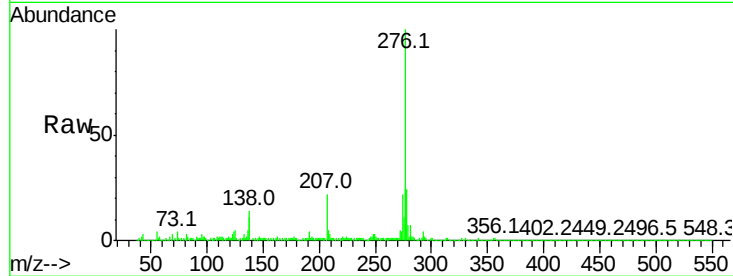
#90
Dibenzo(a,h)anthracene
Concen: 7.049 ng/ul
RT: 26.08 min Scan# 3909
Delta R.T. 0.01 min
Lab File: BM012515.D
Acq: 28 Oct 2017 09:03

Instrument :
BNA_M
ClientSampleId :
B-38(FILL)_100917MS

Tot Ion	Ratio	Lower	Upper
278	100		
139	0.0	5.8	8.8#
279	26.8	18.6	27.8

Manual Integrations
APPROVED

Sohil
10/30/2017 6:31:09 PM



#91
Benzo(g,h,i)perylene
Concen: 20.518 ng/ul
RT: 26.80 min Scan# 4031
Delta R.T. 0.02 min
Lab File: BM012515.D
Acq: 28 Oct 2017 09:03

Tgt Ion	Ratio	Lower	Upper
276	100		
138	14.7	8.5	12.7#
277	24.3	18.6	28.0

