

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM022019\
 Data File : BM018890.D
 Acq On : 20 Feb 2019 19:05
 Operator : JU/SJ
 Sample : K1527-01MSD
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 SOIL-PILEMSD

Manual Integrations
 APPROVED

Sohil
 2/21/2019 10:09:01 AM

Quant Time: Feb 21 01:24:55 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM021119.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Feb 11 16:02:12 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.70	152	312401	20.00	ng	-0.02
21) Naphthalene-d8	10.49	136	1318320	20.00	ng	-0.02
39) Acenaphthene-d10	14.35	164	757441	20.00	ng	-0.01
64) Phenanthrene-d10	17.10	188	1683105	20.00	ng	-0.01
76) Chrysene-d12	21.30	240	1617315	20.00	ng	-0.01
87) Perylene-d12	23.55	264	1365469	20.00	ng	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.29	112	2902913	152.25	ng	-0.01
7) Phenol-d6	6.89	99	4172398	155.34	ng	0.00
23) Nitrobenzene-d5	8.87	82	2699137	94.67	ng	-0.02
42) 2,4,6-Tribromophenol	15.85	330	1649647	151.09	ng	-0.01
45) 2-Fluorobiphenyl	12.97	172	4766392	83.53	ng	-0.01
79) Terphenyl-d14	19.74	244	7159050	91.31	ng	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	3.25	88	290510	34.983	ng	98
3) Pyridine	3.65	79	923642	40.776	ng	99
4) n-Nitrosodimethylamine	3.56	42	302142	52.432	ng	94
6) Aniline	7.05	93	1346532	40.915	ng	99
8) 2-Chlorophenol	7.27	128	1020446	48.747	ng	98
9) Benzaldehyde	6.86	77	515985	33.678	ng	99
10) Phenol	6.91	94	1456855	51.548	ng	98
11) bis(2-Chloroethyl)ether	7.14	93	978736	45.398	ng	100
12) 1,3-Dichlorobenzene	7.59	146	1019400	43.308	ng	98
13) 1,4-Dichlorobenzene	7.73	146	1047160	43.698	ng	99
14) 1,2-Dichlorobenzene	8.05	146	1019504	44.291	ng	99
15) Benzyl Alcohol	7.95	79	1020347	47.808	ng	99
16) 2,2'-oxybis(1-Chloropropan	8.23	45	947826	45.425	ng	98
17) 2-Methylphenol	8.15	107	897773	49.910	ng	99
18) Hexachloroethane	8.76	117	391483	44.753	ng	96
19) n-Nitroso-di-n-propylamine	8.52	70	941029	45.248	ng	100
20) 3+4-Methylphenols	8.47	107	1219367	49.091	ng	99
22) Acetophenone	8.53	105	1560487	43.103	ng	100
24) Nitrobenzene	8.92	77	1348812	45.576	ng	100
25) Isophorone	9.43	82	2368430	52.062	ng	100
26) 2-Nitrophenol	9.62	139	552367	46.868	ng	99
27) 2,4-Dimethylphenol	9.67	122	928589	53.945	ng	98
28) bis(2-Chloroethoxy)methane	9.92	93	1371908	46.635	ng	99
29) 2,4-Dichlorophenol	10.14	162	968544	49.002	ng	100
30) 1,2,4-Trichlorobenzene	10.35	180	1006496	44.094	ng	98
31) Naphthalene	10.54	128	3087992	48.028	ng	99
32) Benzoic acid	9.80	122	240594	16.023	ng	96
33) 4-Chloroaniline	10.66	127	617465	21.484	ng	99
34) Hexachlorobutadiene	10.80	225	545456	41.169	ng	99
35) Caprolactam	11.49	113	322159m	39.938	ng	
36) 4-Chloro-3-methylphenol	11.79	107	1136553	47.693	ng	99
37) 2-Methylnaphthalene	12.16	142	2278073	50.324	ng	100
38) 1-Methylnaphthalene	12.38	142	2155382	48.691	ng	98
40) 1,2,4,5-Tetrachlorobenzene	12.52	216	1069155	44.126	ng	99

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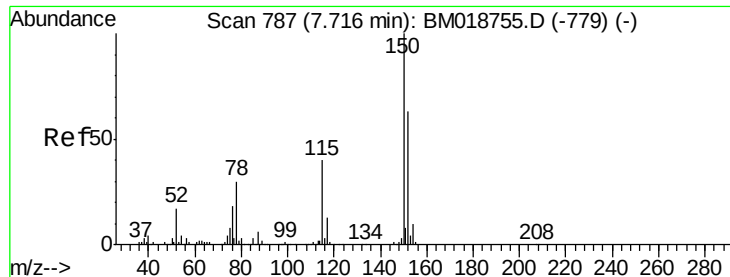
Manual Integrations
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 2/21/2019 10:09:01 AM

Quant Time: Feb 21 01:24:55 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM021119.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Feb 11 16:02:12 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Hexachlorocyclopentadiene	12.49	237	1037246	83.730	nq	98
43) 2,4,6-Trichlorophenol	12.77	196	776778	48.427	nq	99
44) 2,4,5-Trichlorophenol	12.85	196	825398	49.095	nq	98
46) 1,1'-Biphenyl	13.18	154	2877671	44.137	nq	99
47) 2-Chloronaphthalene	13.22	162	2255184	44.782	nq	99
48) 2-Nitroaniline	13.45	65	807177	48.261	nq	98
49) Acenaphthylene	14.07	152	3677735	49.046	nq	99
50) Dimethylphthalate	13.82	163	3124728	49.501	nq	100
51) 2,6-Dinitrotoluene	13.95	165	639056	46.734	nq	95
52) Acenaphthene	14.42	154	2106708	45.819	nq	100
53) 3-Nitroaniline	14.28	138	448021	28.997	nq	98
54) 2,4-Dinitrophenol	14.49	184	487526	57.903	nq	99
55) Dibenzofuran	14.75	168	3453332	45.695	nq	99
56) 4-Nitrophenol	14.60	139	1082065	87.732	nq	99
57) 2,4-Dinitrotoluene	14.74	165	905801	48.077	nq	98
58) Fluorene	15.40	166	2798280	48.400	nq	99
59) 2,3,4,6-Tetrachlorophenol	14.98	232	742256	49.948	nq	99
60) Diethylphthalate	15.19	149	2962248	45.492	nq	99
61) 4-Chlorophenyl-phenylether	15.40	204	1397907	43.124	nq	98
62) 4-Nitroaniline	15.46	138	626592	41.367	nq	98
63) Azobenzene	15.69	77	3208795	45.959	nq	99
65) 4,6-Dinitro-2-methylphenol	15.50	198	402576	34.067	nq	97
66) n-Nitrosodiphenylamine	15.62	169	2431244	45.721	nq	99
67) 4-Bromophenyl-phenylether	16.30	248	835541	44.351	nq	97
68) Hexachlorobenzene	16.40	284	966740	44.147	nq	99
69) Atrazine	16.58	200	796364	46.453	nq	99
70) Pentachlorophenol	16.75	266	1265102	89.726	nq	99
71) Phenanthrene	17.14	178	4401440	48.660	nq	100
72) Anthracene	17.24	178	4478841	50.873	nq	99
73) Carbazole	17.52	167	4067680	44.223	nq	99
74) Di-n-butylphthalate	18.07	149	5209823	49.249	nq	100
75) Fluoranthene	19.17	202	5136755	49.163	nq	99
77) Benzidine	19.37	184	2729874	74.947	nq	100
78) Pyrene	19.53	202	5192289	55.277	nq	99
80) Butylbenzylphthalate	20.43	149	2516197	58.778	nq	97
81) Benzo(a)anthracene	21.28	228	4691597	49.764	nq	100
82) 3,3'-Dichlorobenzidine	21.22	252	1463717	39.284	nq	99
83) Chrysene	21.34	228	4355532	48.201	nq	100
84) Bis(2-ethylhexyl)phthalate	21.20	149	3641732	58.124	nq	100
85) Di-n-octyl phthalate	22.09	149	5969642	56.689	nq	99
86) Indeno(1,2,3-cd)pyrene	25.84	276	4134584	39.631	nq	100
88) Benzo(b)fluoranthene	22.87	252	4044456	51.770	nq	99
89) Benzo(k)fluoranthene	22.91	252	4030630	51.823	nq	99
90) Benzo(a)pyrene	23.46	252	3764242	50.862	nq	99
91) Dibenzo(a,h)anthracene	25.84	278	3532369	48.175	nq	99
92) Benzo(g,h,i)perylene	26.54	276	3315527	48.571	nq	99

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



#1

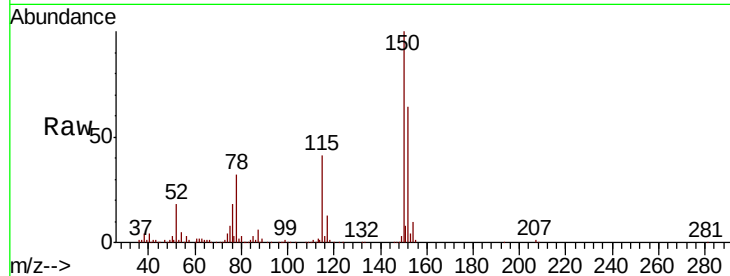
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.70 min Scan# 784
Delta R.T. -0.02 min
Lab File: BM018890.D
Acq: 20 Feb 2019 19:05

Instrument :
BNA_M
ClientSampleId :
SOIL-PILEMSD

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.8	127.3	190.9
115	63.7	50.8	76.2

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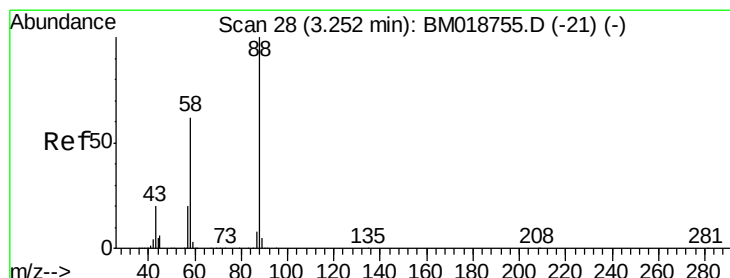
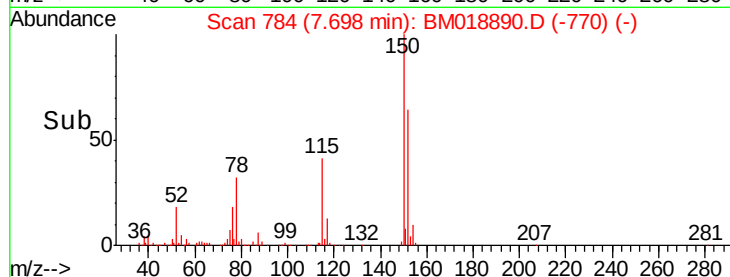
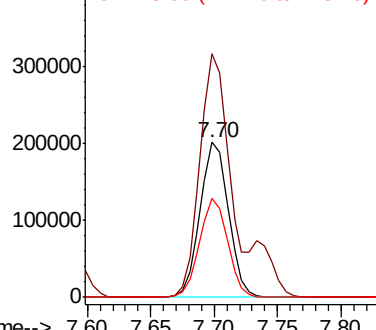


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

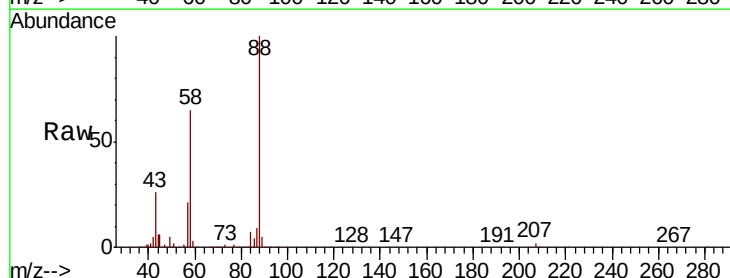
Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane
Concen: 34.983 ng
RT: 3.25 min Scan# 27
Delta R.T. -0.01 min
Lab File: BM018890.D
Acq: 20 Feb 2019 19:05

Tgt Ion	Ratio	Lower	Upper
88	100		
58	63.9	49.8	74.6
43	21.0	16.7	25.1

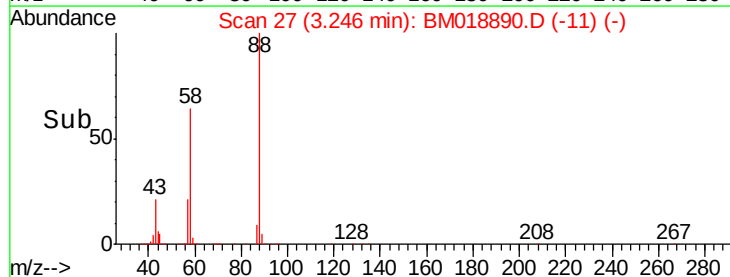
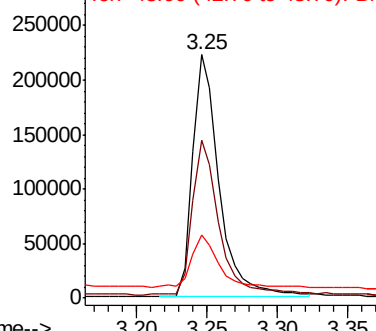


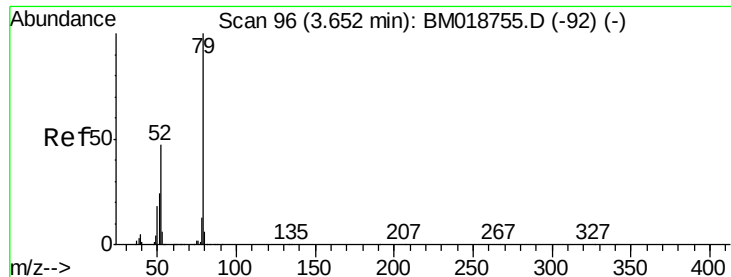
Abundance

Ion 88.00 (87.70 to 88.70): BM0

Ion 58.00 (57.70 to 58.70): BM0

Ion 43.00 (42.70 to 43.70): BM0





#3

Pvridine

Concen: 40.776 ng

RT: 3.65 min Scan# 95

Delta R.T. -0.01 min

Lab File: BM018890.D

Acq: 20 Feb 2019 19:05

Instrument :

BNA_M

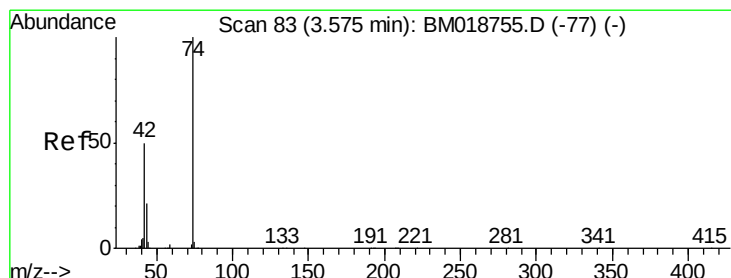
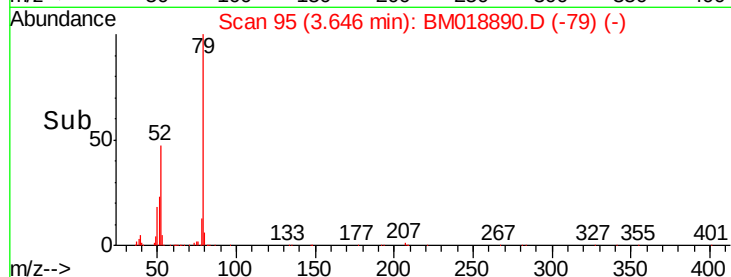
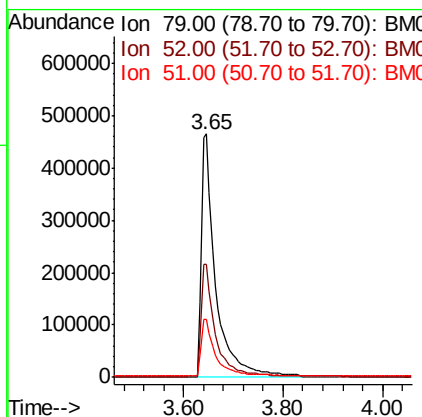
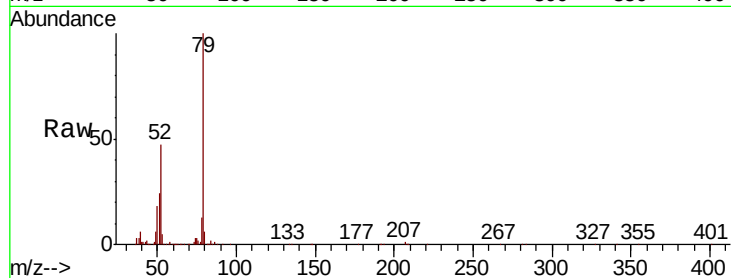
ClientSampleId :

SOIL-PILEMSD

Tot Ion:	79	Resp:	923642
Ion Ratio	Lower	Upper	
79	100		
52	46.6	37.6	56.4
51	23.8	19.7	29.5

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#4

n-Nitrosodimethylamine

Concen: 52.432 ng

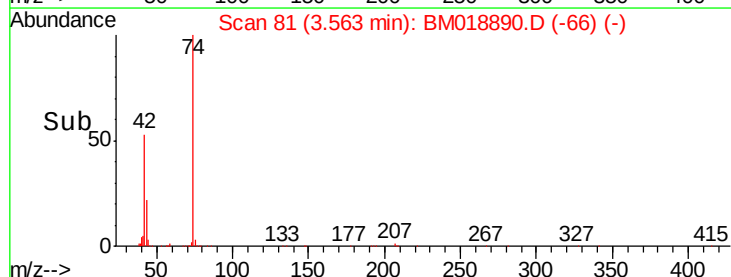
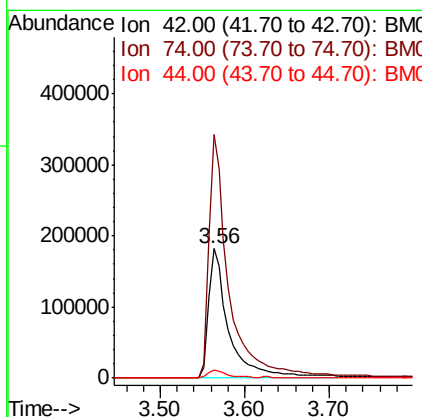
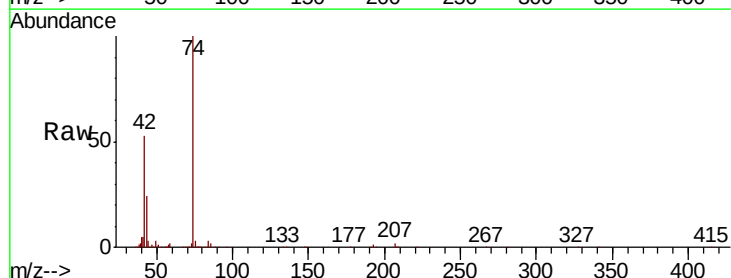
RT: 3.56 min Scan# 81

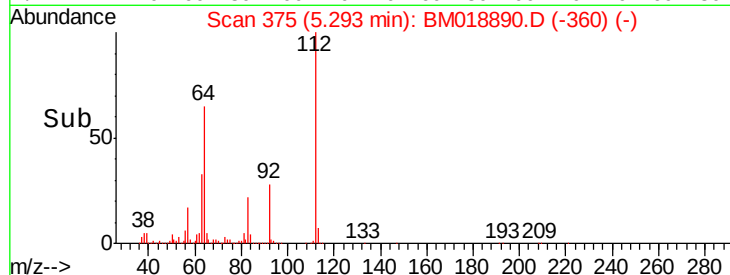
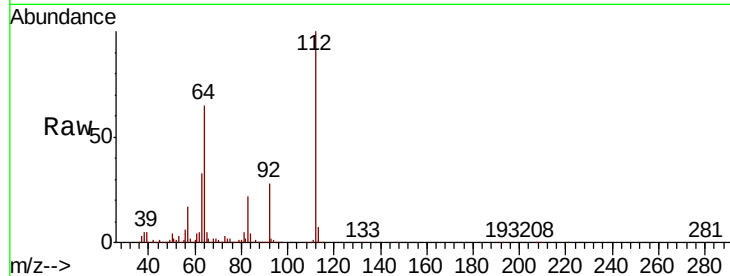
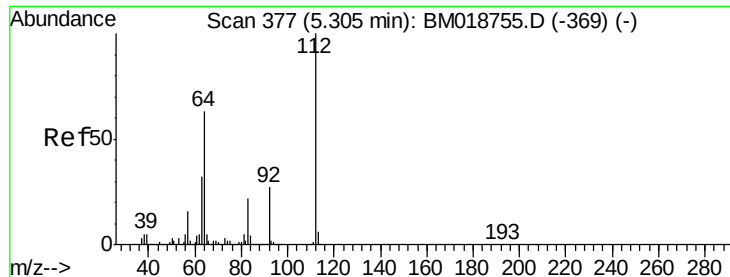
Delta R.T. -0.01 min

Lab File: BM018890.D

Acq: 20 Feb 2019 19:05

Tgt Ion:	42	Resp:	302142
Ion Ratio	Lower	Upper	
42	100		
74	187.9	158.1	237.1
44	6.1	4.9	7.3





#5

2-Fluorophenol

Concen: 152.251 ng

RT: 5.29 min Scan# 375

Delta R.T. -0.01 min

Lab File: BM018890.D

Acq: 20 Feb 2019 19:05

Tot Ion:	112	Resp:	2902913
Ion	Ratio	Lower	Upper
112	100		
64	65.1	50.6	75.8
63	33.2	25.7	38.5

Instrument :

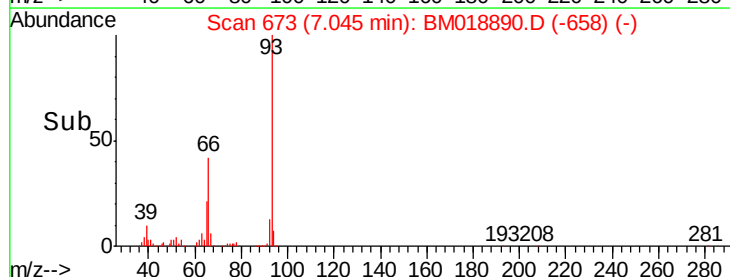
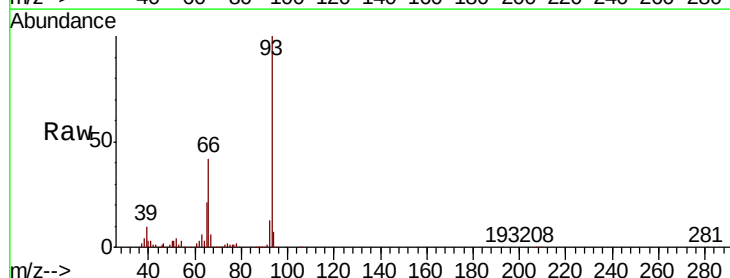
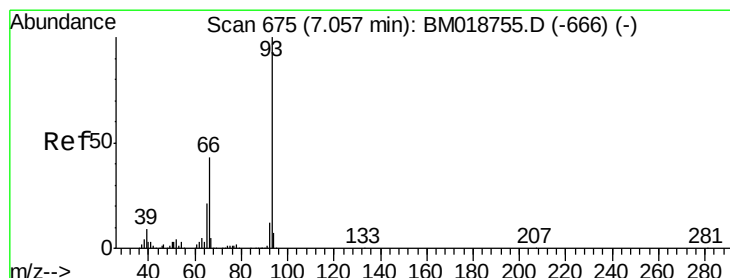
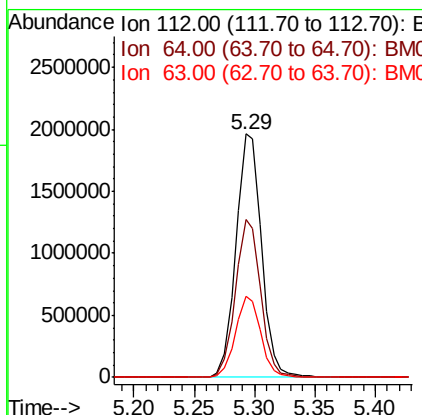
BNA_M

ClientSampleId :

SOIL-PILEMSD

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#6

Aniline

Concen: 40.915 ng

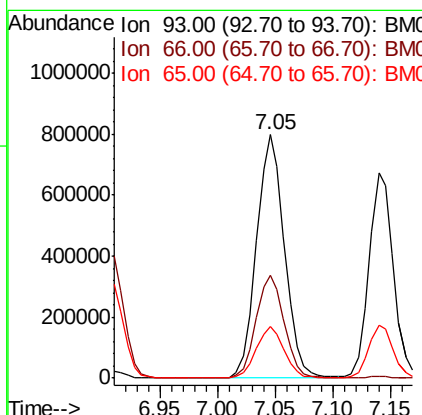
RT: 7.05 min Scan# 673

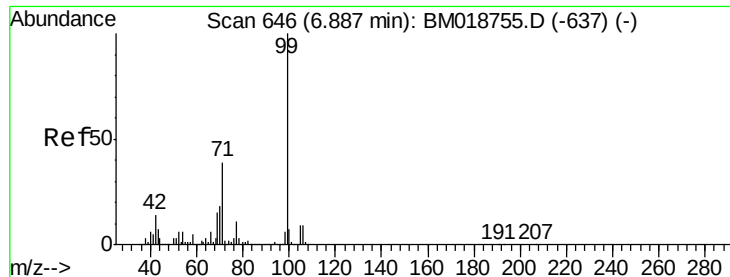
Delta R.T. -0.01 min

Lab File: BM018890.D

Acq: 20 Feb 2019 19:05

Tgt Ion:	93	Resp:	1346532
Ion	Ratio	Lower	Upper
93	100		
66	42.0	34.1	51.1
65	21.0	16.6	24.8





#7

Phenol-d6

Concen: 155.338 ng

RT: 6.89 min Scan# 646

Delta R.T. -0.00 min

Lab File: BM018890.D

Acq: 20 Feb 2019 19:05

Instrument :

BNA_M

ClientSampleId :

SOIL-PILEMSD

Tot Ion: 99 Resp: 4172398

Ion Ratio Lower Upper

99 100

42 13.7 11.0 16.6

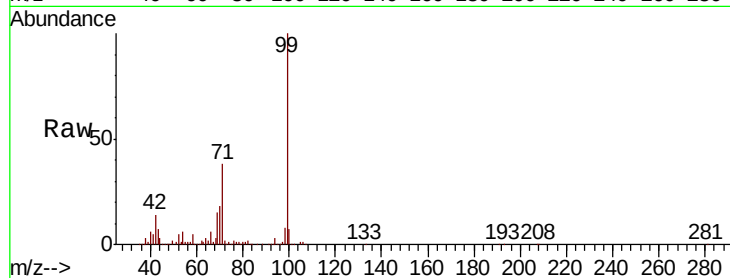
71 37.8 31.3 46.9

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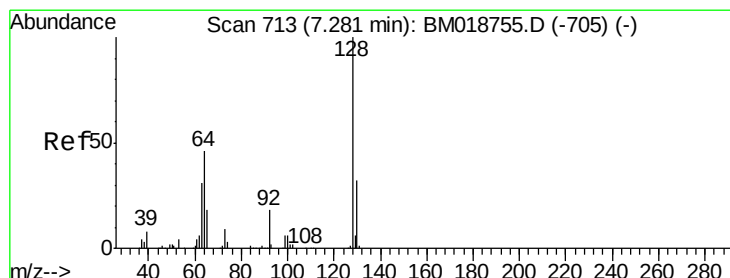
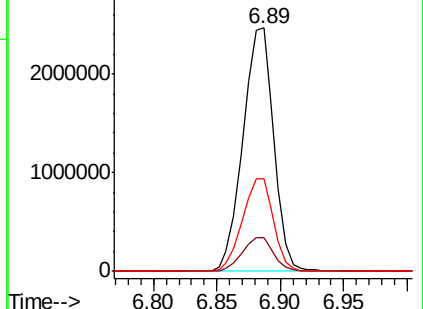
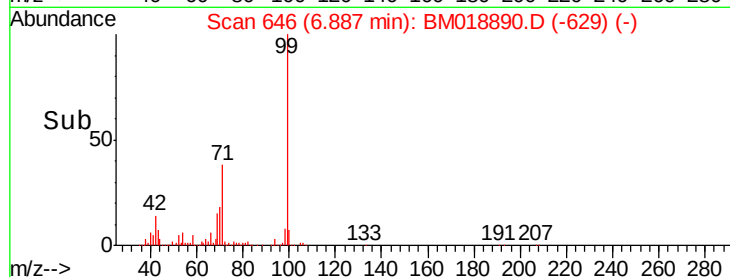
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Abundance Ion 99.00 (98.70 to 99.70): BM018890.D (-629) (-)

Ion 42.00 (41.70 to 42.70): BM018890.D (-629) (-)

Ion 71.00 (70.70 to 71.70): BM018890.D (-629) (-)



#8

2-Chlorophenol

Concen: 48.747 ng

RT: 7.27 min Scan# 711

Delta R.T. -0.01 min

Lab File: BM018890.D

Acq: 20 Feb 2019 19:05

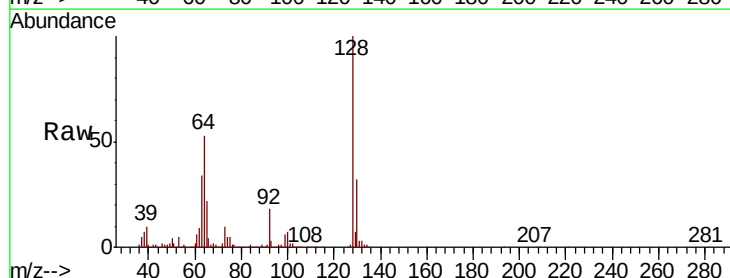
Tgt Ion:128 Resp: 1020446

Ion Ratio Lower Upper

128 100

130 32.0 11.7 51.7

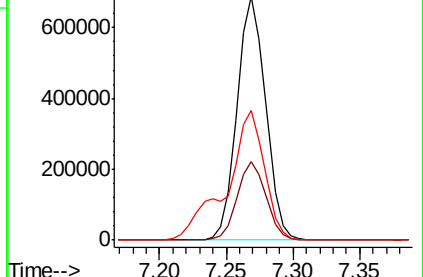
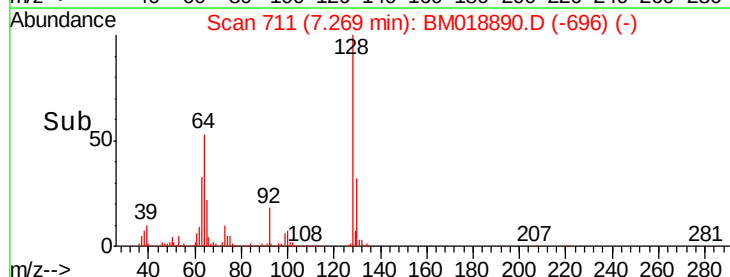
64 53.3 31.0 71.0

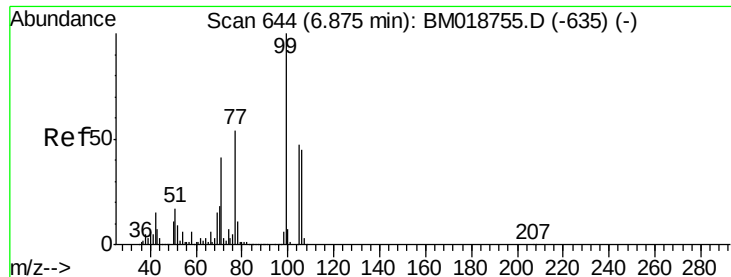


Abundance Ion 128.00 (127.70 to 128.70): BM018890.D (-696) (-)

Ion 130.00 (129.70 to 130.70): BM018890.D (-696) (-)

Ion 64.00 (63.70 to 64.70): BM018890.D (-696) (-)





#9

Benzaldehyde

Concen: 33.678 ng

RT: 6.86 min Scan# 641

Delta R.T. -0.02 min

Lab File: BM018890.D

Acq: 20 Feb 2019 19:05

Instrument :

BNA_M

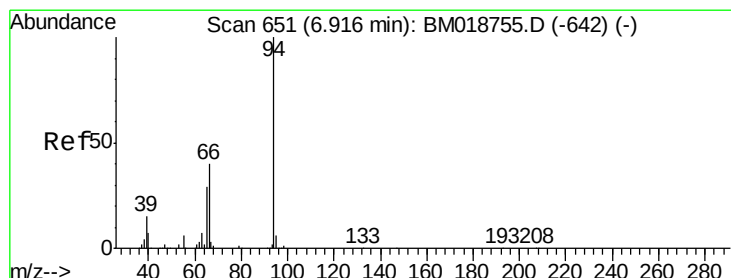
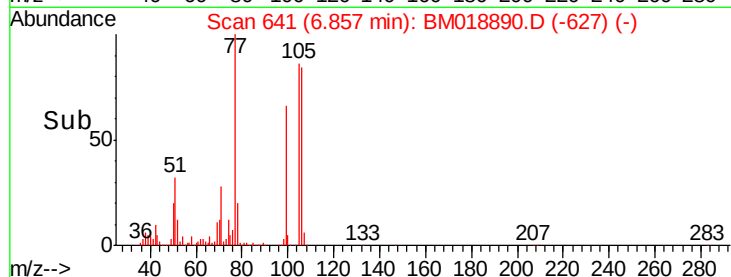
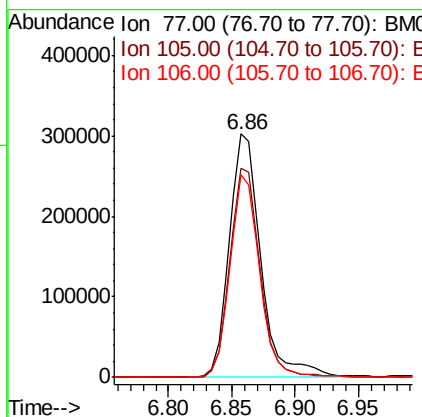
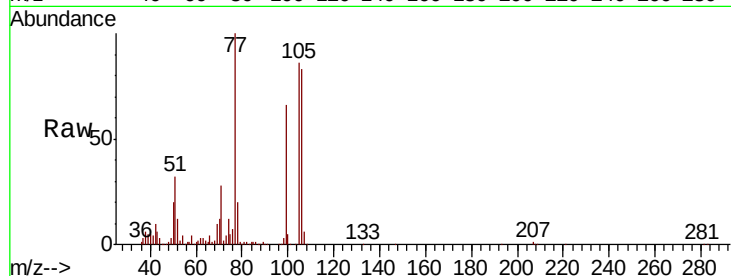
ClientSampleId :

SOIL-PILEMSD

Tot Ion:	77	Resp:	515985
Ion	Ratio	Lower	Upper
77	100		
105	86.1	67.3	107.3
106	83.2	62.9	102.9

Manual Integrations
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#10

Phenol

Concen: 51.548 ng

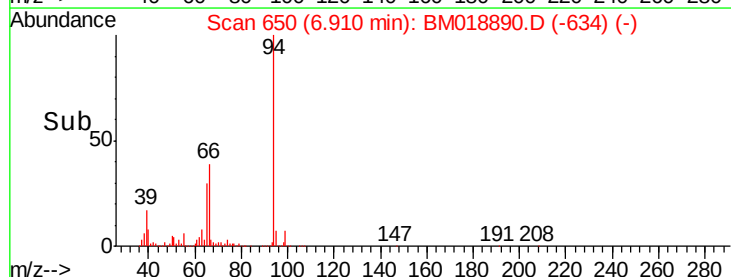
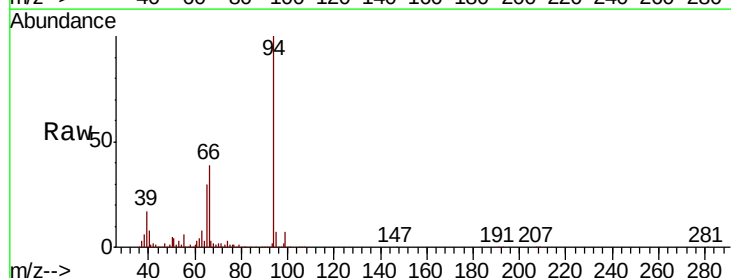
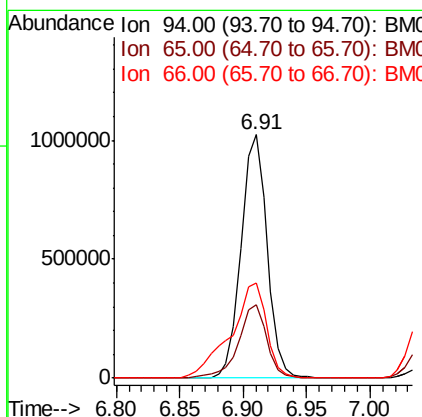
RT: 6.91 min Scan# 650

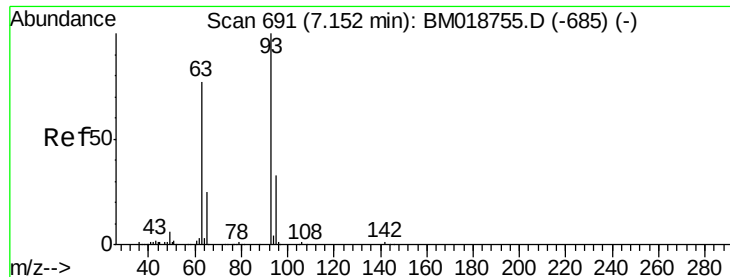
Delta R.T. -0.01 min

Lab File: BM018890.D

Acq: 20 Feb 2019 19:05

Tgt Ion:	94	Resp:	1456855
Ion	Ratio	Lower	Upper
94	100		
65	30.2	9.6	49.6
66	39.2	20.4	60.4





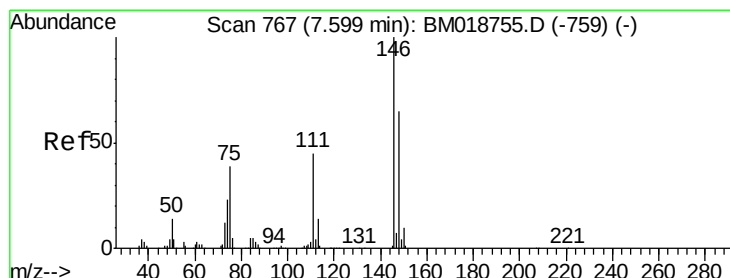
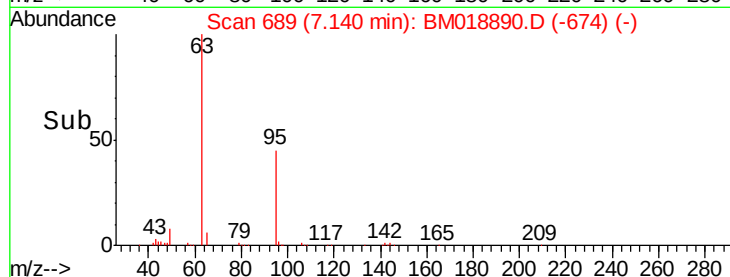
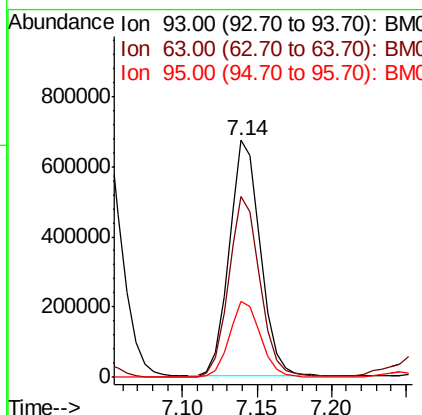
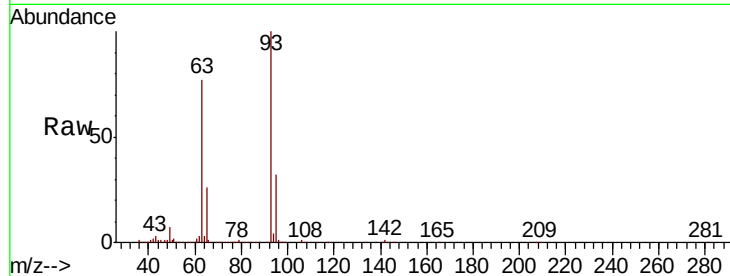
#11
bis(2-Chloroethyl)ether
Concen: 45.398 ng
RT: 7.14 min Scan# 689
Delta R.T. -0.01 min
Lab File: BM018890.D
Acq: 20 Feb 2019 19:05

Instrument :
BNA_M
ClientSampleId :
SOIL-PILEMSD

Tot Ion	Ratio	Lower	Upper
93	100		
63	76.6	57.0	97.0
95	32.1	12.4	52.4

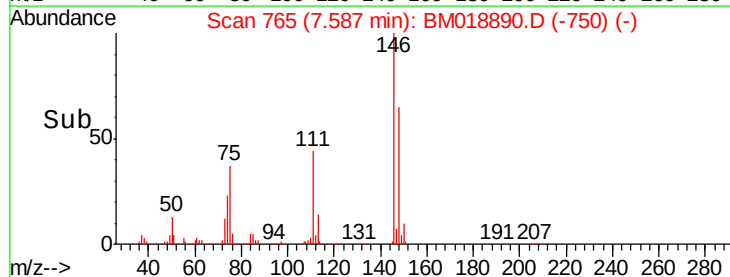
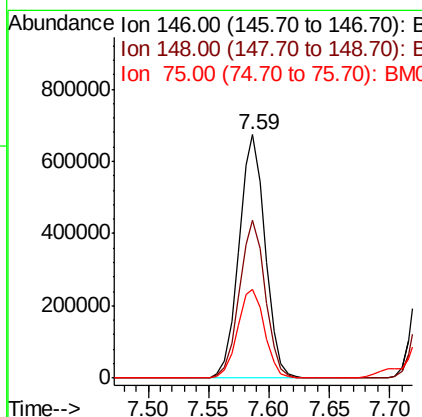
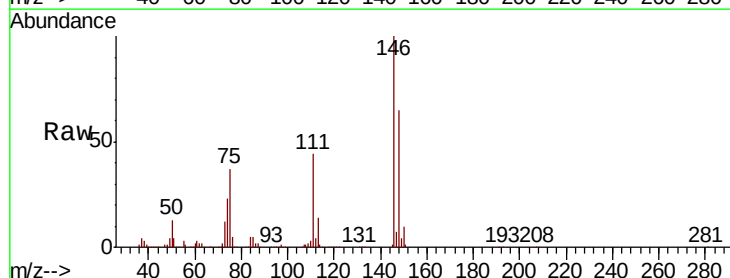
Manual Integrations
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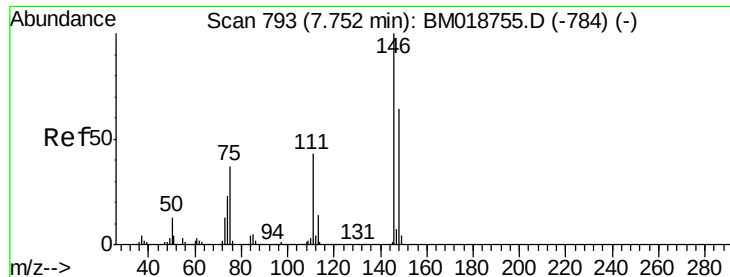
Sohil
2/21/2019 10:09:01 AM



#12
1,3-Dichlorobenzene
Concen: 43.308 ng
RT: 7.59 min Scan# 765
Delta R.T. -0.01 min
Lab File: BM018890.D
Acq: 20 Feb 2019 19:05

Tgt Ion	Ratio	Lower	Upper
146	100		
148	65.0	51.7	77.5
75	36.5	31.3	46.9





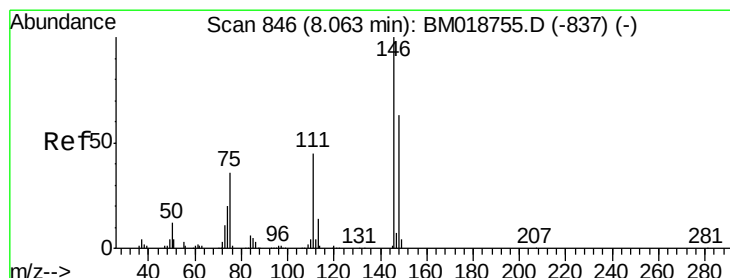
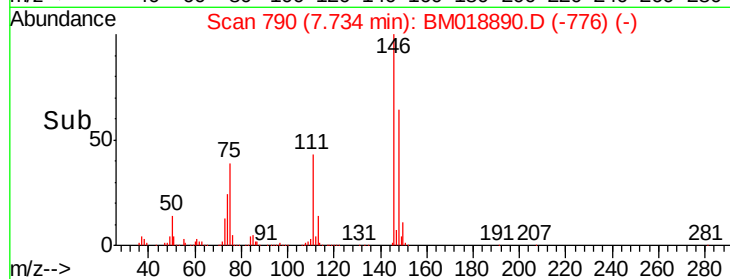
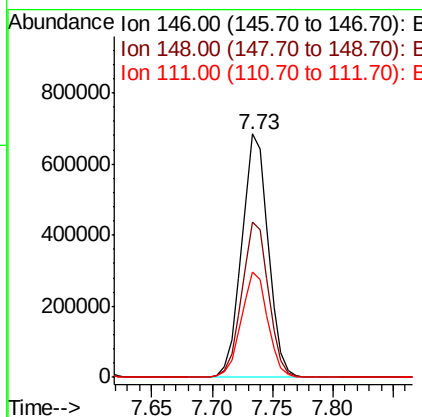
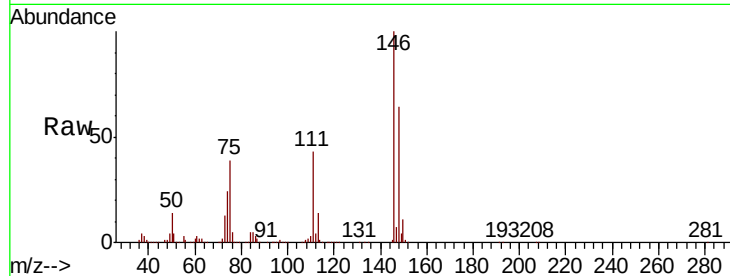
#13
 1,4-Dichlorobenzene
 Concen: 43.698 ng
 RT: 7.73 min Scan# 790
 Delta R.T. -0.02 min
 Lab File: BM018890.D
 Acq: 20 Feb 2019 19:05

Instrument :
 BNA_M
 ClientSampleId :
 SOIL-PILEMSD

Tot Ion	Ratio	Lower	Upper
146	100		
148	63.6	51.4	77.2
111	43.3	34.6	52.0

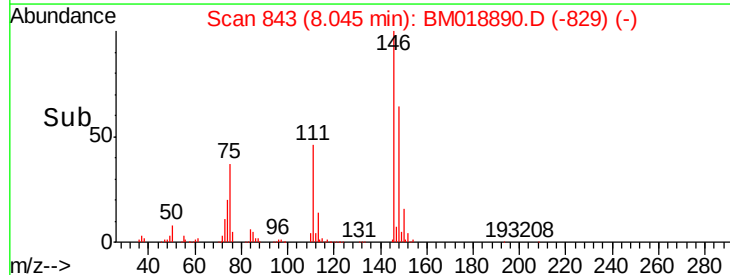
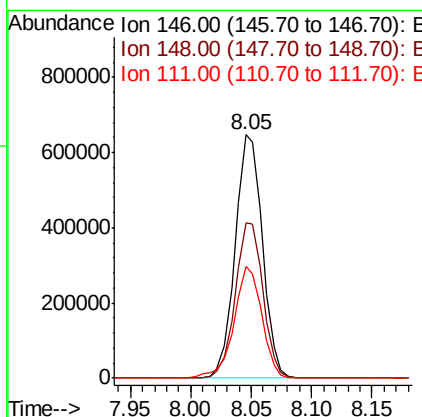
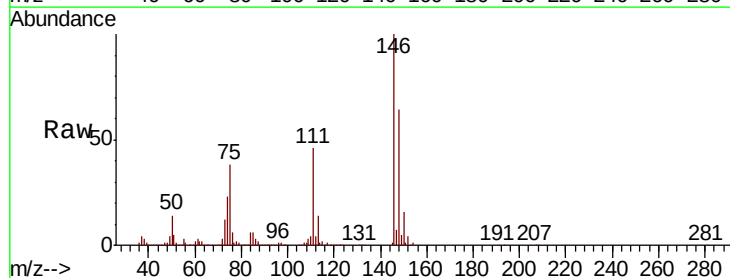
Manual Integrations
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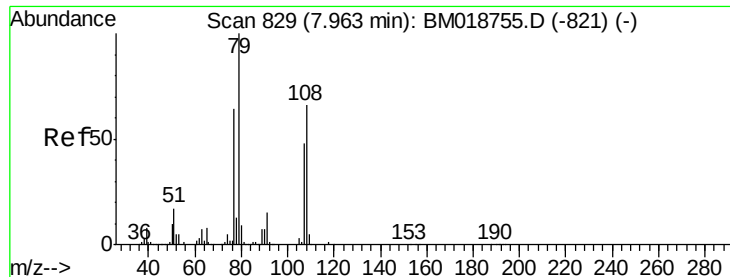
Sohil
 2/21/2019 10:09:01 AM



#14
 1,2-Dichlorobenzene
 Concen: 44.291 ng
 RT: 8.05 min Scan# 843
 Delta R.T. -0.02 min
 Lab File: BM018890.D
 Acq: 20 Feb 2019 19:05

Tgt Ion	Ratio	Lower	Upper
146	100		
148	63.7	50.7	76.1
111	46.1	35.9	53.9





#15

Benzyl Alcohol

Concen: 47.808 ng

RT: 7.95 min Scan# 827

Delta R.T. -0.01 min

Lab File: BM018890.D

Acq: 20 Feb 2019 19:05

Instrument :

BNA_M

ClientSampleId :

SOIL-PILEMSD

Tot Ion: 79 Resp: 1020347

Ion Ratio Lower Upper

79 100

108 66.5 52.7 79.1

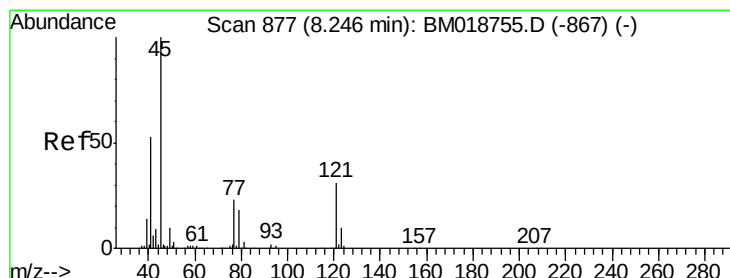
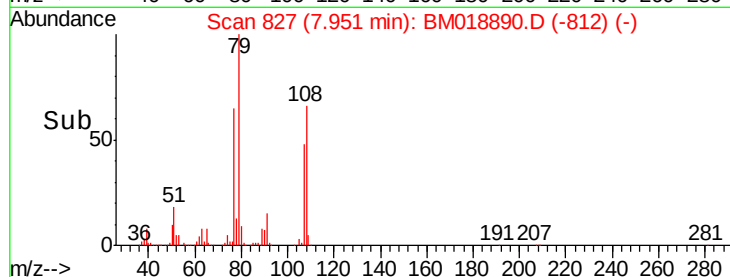
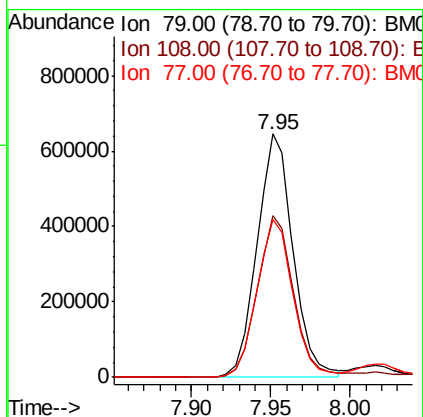
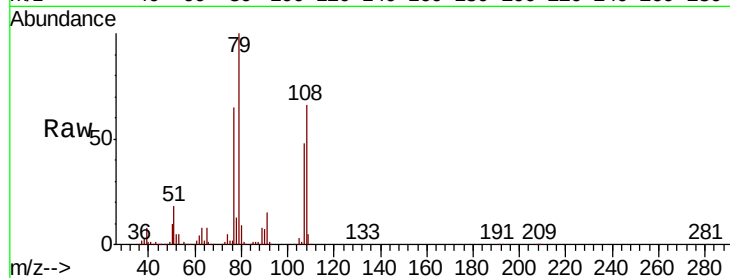
77 64.9 51.0 76.4

Manual Integrations

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#16

2,2'-oxybis(1-Chloropropane)

Concen: 45.425 ng

RT: 8.23 min Scan# 875

Delta R.T. -0.01 min

Lab File: BM018890.D

Acq: 20 Feb 2019 19:05

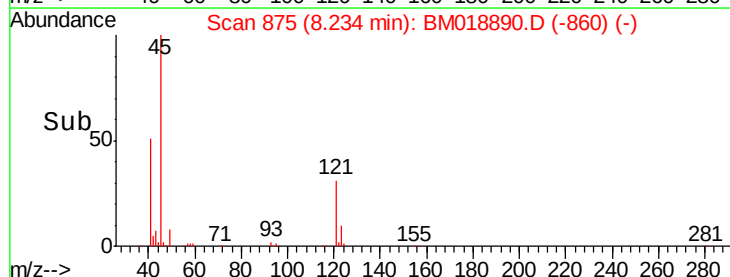
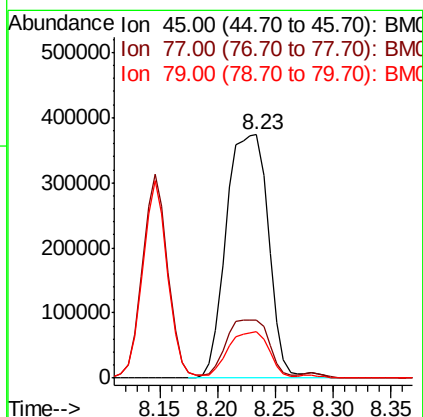
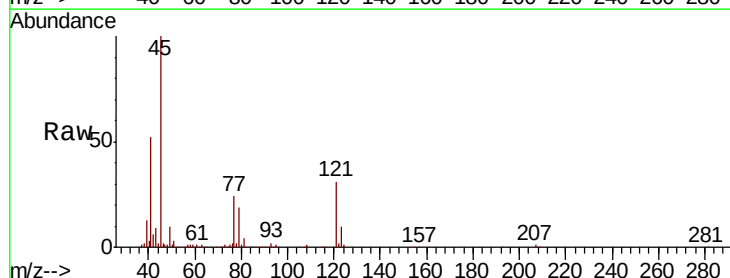
Tgt Ion: 45 Resp: 947826

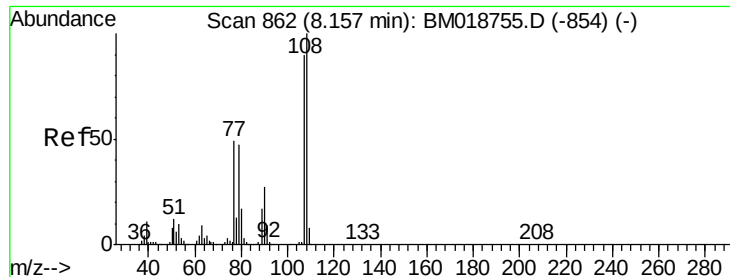
Ion Ratio Lower Upper

45 100

77 23.6 5.0 45.0

79 19.2 0.0 39.3





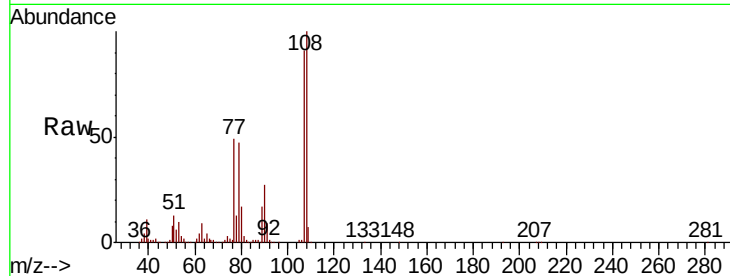
#17
2-Methylphenol
Concen: 49.910 ng
RT: 8.15 min Scan# 860
Delta R.T. -0.01 min
Lab File: BM018890.D
Acq: 20 Feb 2019 19:05

Instrument :
BNA_M
ClientSampled :
SOIL-PILEMSD

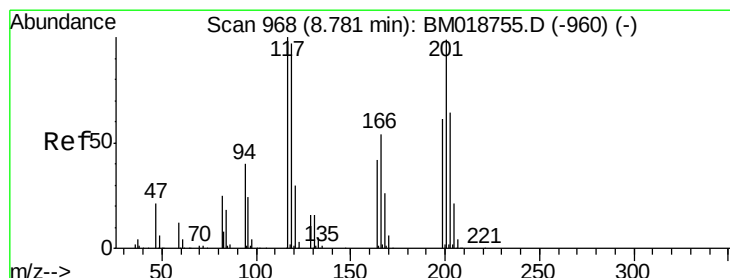
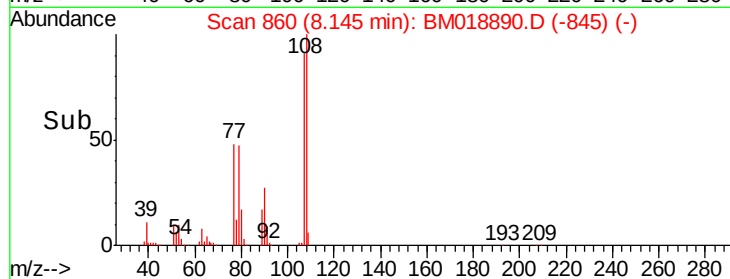
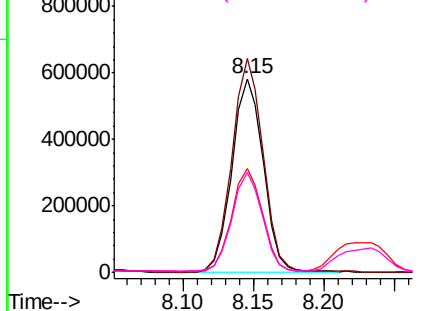
Tot Ion	Ratio	Resp	Lower	Upper
107	100	897773		
108	110.4		88.8	133.2
77	53.8		44.0	66.0
79	51.9		42.4	63.6

Manual Integrations
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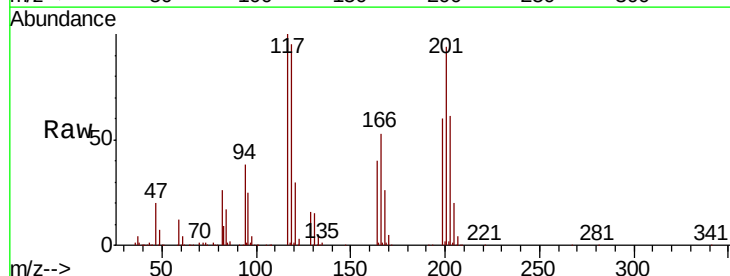


Abundance Ion 107.00 (106.70 to 107.70): E
Ion 108.00 (107.70 to 108.70): E
Ion 77.00 (76.70 to 77.70): BM
Ion 79.00 (78.70 to 79.70): BM

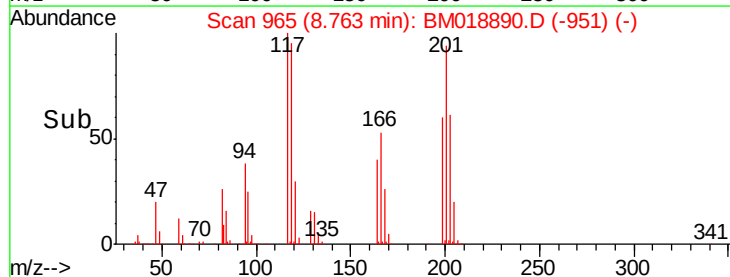
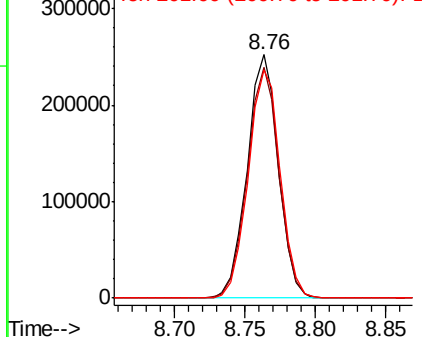


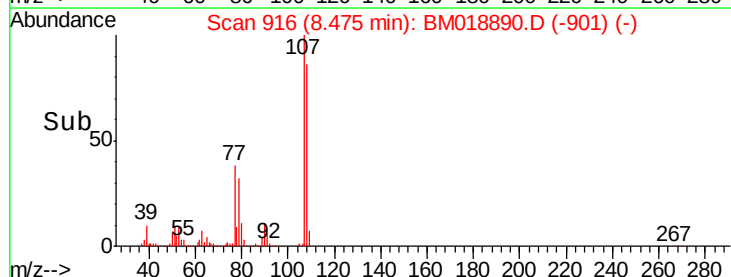
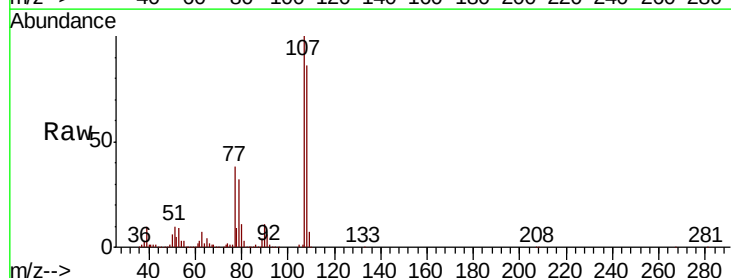
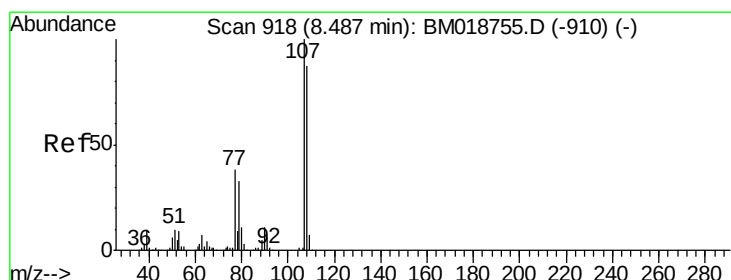
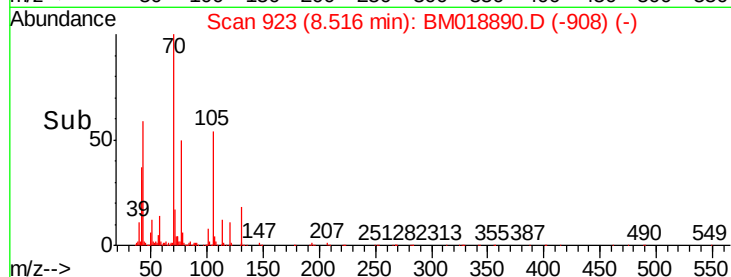
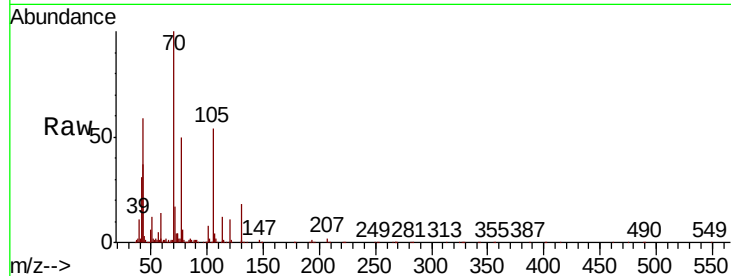
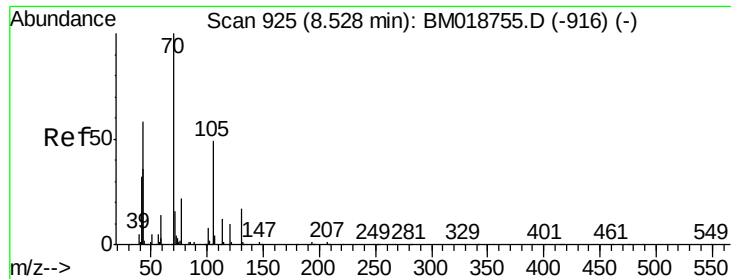
#18
Hexachloroethane
Concen: 44.753 ng
RT: 8.76 min Scan# 965
Delta R.T. -0.02 min
Lab File: BM018890.D
Acq: 20 Feb 2019 19:05

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	391483		
119	94.9		77.9	116.9
201	93.5		79.2	118.8



Abundance Ion 117.00 (116.70 to 117.70): E
Ion 119.00 (118.70 to 119.70): E
Ion 201.00 (200.70 to 201.70): E





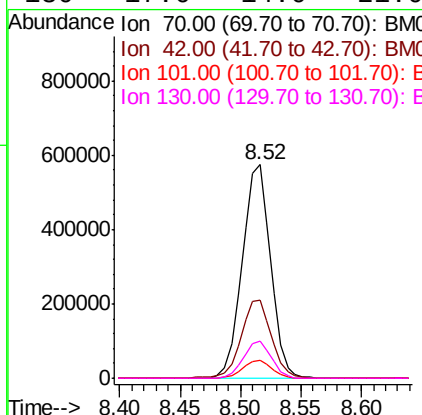
#19
n-Nitroso-di-n-propylamine
Concen: 45.248 ng
RT: 8.52 min Scan# 923
Delta R.T. -0.01 min
Lab File: BM018890.D
Acq: 20 Feb 2019 19:05

Instrument :
BNA_M
ClientSampleId :
SOIL-PILEMSD

Tot Ion	Ion	Ratio	Resp	Lower	Upper
70	100				
42	36.7	29.4	44.0		
101	8.5	6.7	10.1		
130	17.6	14.0	21.0		

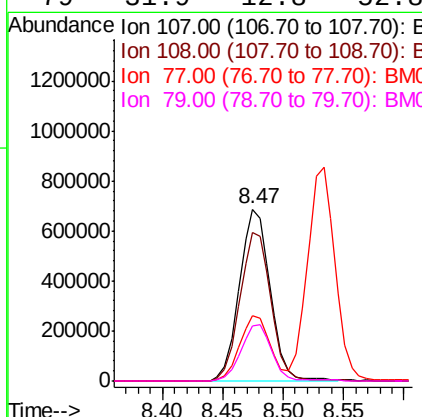
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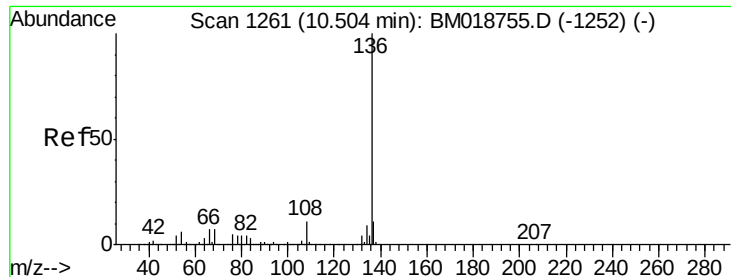
Sohil
2/21/2019 10:09:01 AM



#20
3+4-Methylphenols
Concen: 49.091 ng
RT: 8.47 min Scan# 916
Delta R.T. -0.01 min
Lab File: BM018890.D
Acq: 20 Feb 2019 19:05

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
107	100				
108	86.1	67.3	107.3		
77	38.0	18.0	58.0		
79	31.9	12.8	52.8		





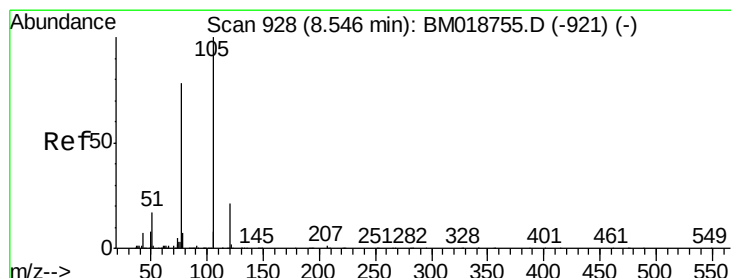
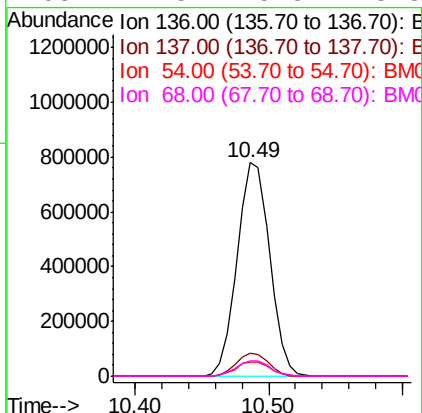
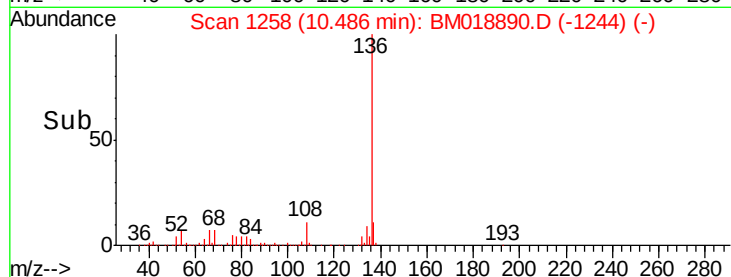
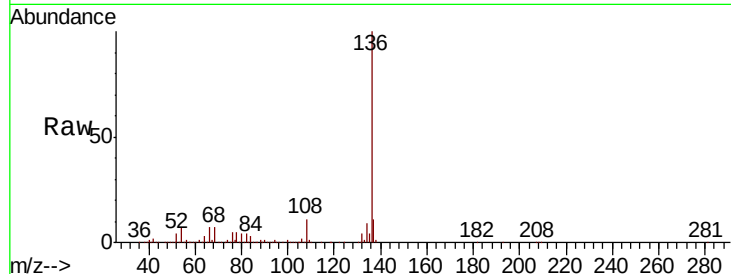
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.49 min Scan# 1258
Delta R.T. -0.02 min
Lab File: BM018890.D
Acq: 20 Feb 2019 19:05

Instrument :
BNA_M
ClientSampleId :
SOIL-PILEMSD

Tot Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.8	13.2
54	6.9	5.0	7.6
68	7.5	5.5	8.3

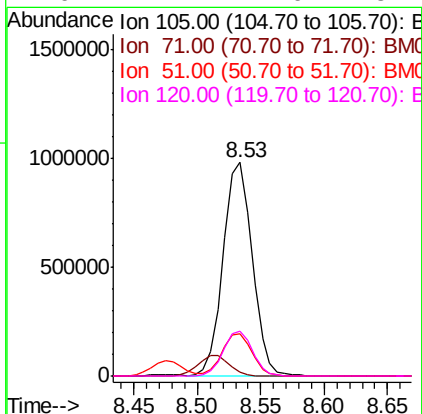
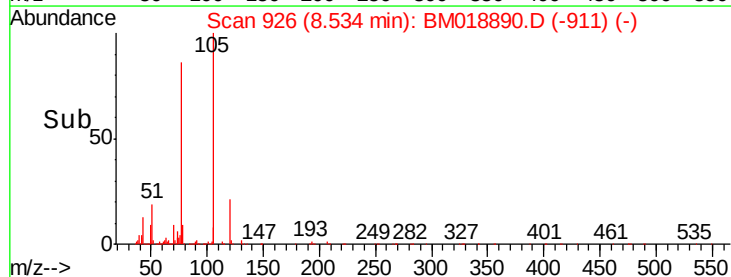
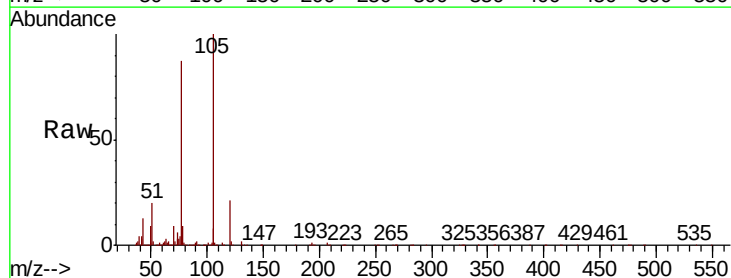
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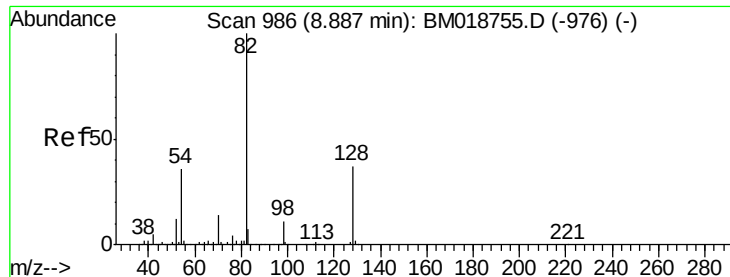
Sohil
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#22
Acetophenone
Concen: 43.103 ng
RT: 8.53 min Scan# 926
Delta R.T. -0.01 min
Lab File: BM018890.D
Acq: 20 Feb 2019 19:05

Tgt Ion	Ratio	Lower	Upper
105	100		
71	1.5	1.1	1.7
51	19.6	15.5	23.3
120	21.1	17.0	25.4





#23

Nitrobenzene-d5

Concen: 94.669 ng

RT: 8.87 min Scan# 983

Delta R.T. -0.02 min

Lab File: BM018890.D

Acq: 20 Feb 2019 19:05

Instrument :

BNA_M

ClientSampleId :

SOIL-PILEMSD

Tot Ion: 82 Resp: 2699137

Ion Ratio Lower Upper

82 100

128 37.0 29.9 44.9

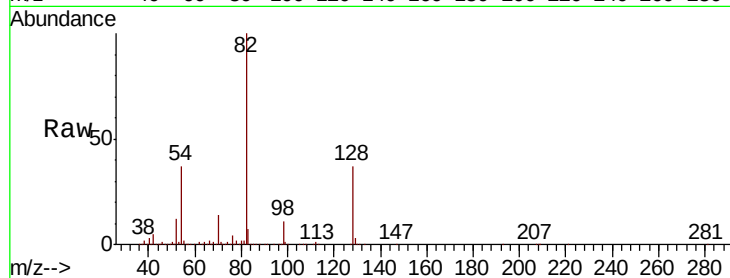
54 37.2 29.1 43.7

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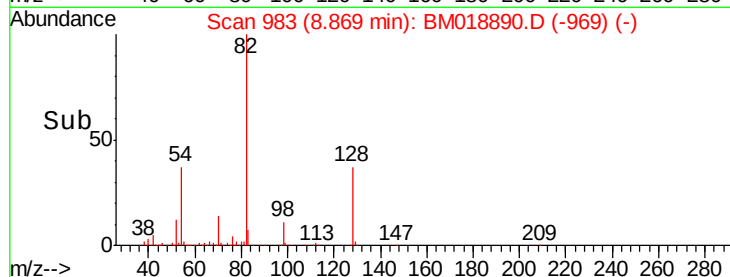


Abundance Ion 82.00 (81.70 to 82.70): BM018890.D (-969) (-)

Ion 128.00 (127.70 to 128.70): BM018890.D (-969) (-)

Ion 54.00 (53.70 to 54.70): BM018890.D (-969) (-)

Time-->

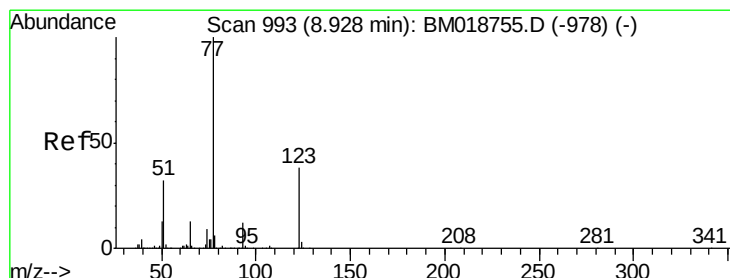


Abundance Ion 82.00 (81.70 to 82.70): BM018890.D (-969) (-)

Ion 128.00 (127.70 to 128.70): BM018890.D (-969) (-)

Ion 54.00 (53.70 to 54.70): BM018890.D (-969) (-)

Time-->



#24

Nitrobenzene

Concen: 45.576 ng

RT: 8.92 min Scan# 991

Delta R.T. -0.01 min

Lab File: BM018890.D

Acq: 20 Feb 2019 19:05

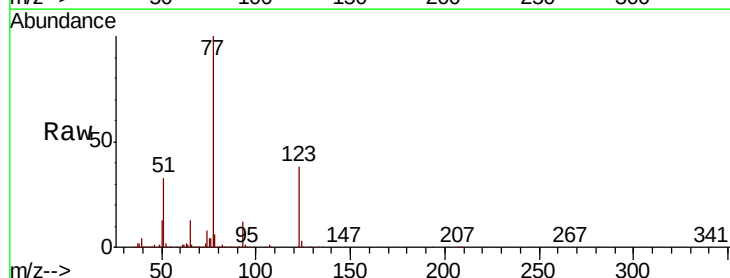
Tgt Ion: 77 Resp: 1348812

Ion Ratio Lower Upper

77 100

123 38.4 30.7 46.1

65 13.0 10.5 15.7

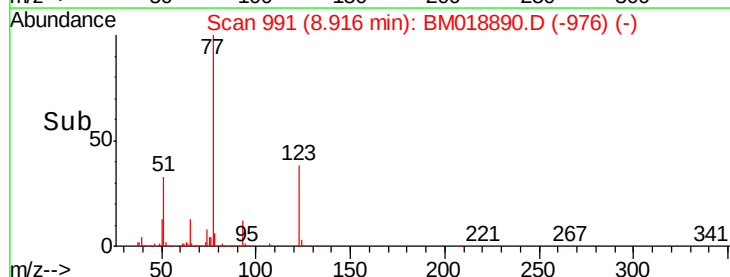


Abundance Ion 77.00 (76.70 to 77.70): BM018890.D (-976) (-)

Ion 123.00 (122.70 to 123.70): BM018890.D (-976) (-)

Ion 65.00 (64.70 to 65.70): BM018890.D (-976) (-)

Time-->

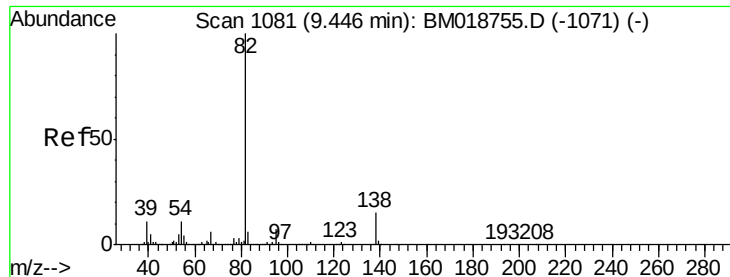


Abundance Ion 77.00 (76.70 to 77.70): BM018890.D (-976) (-)

Ion 123.00 (122.70 to 123.70): BM018890.D (-976) (-)

Ion 65.00 (64.70 to 65.70): BM018890.D (-976) (-)

Time-->



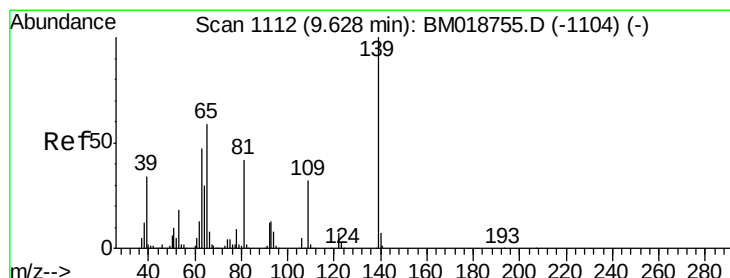
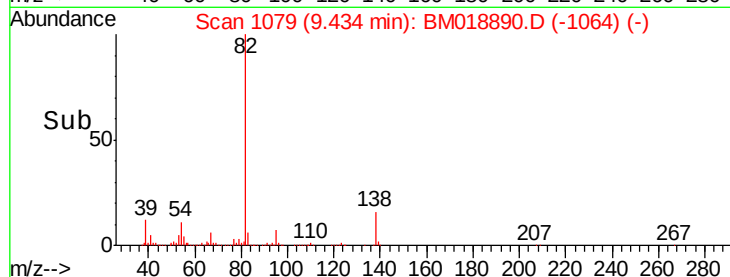
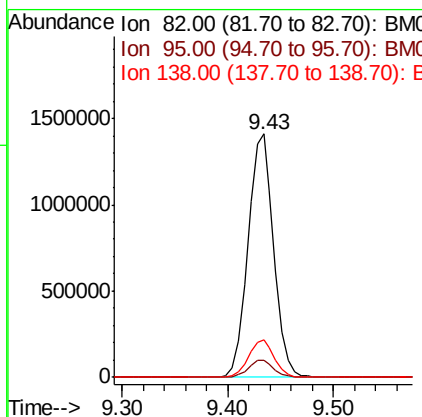
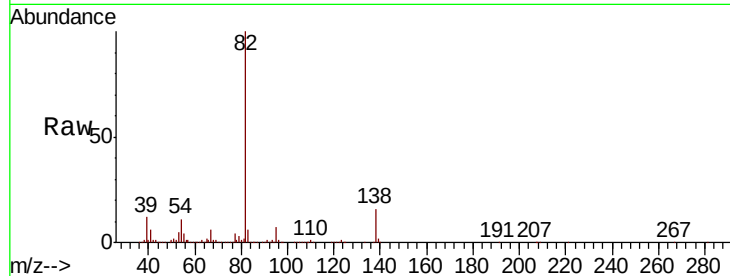
#25
Isophorone
Concen: 52.062 ng
RT: 9.43 min Scan# 1079
Delta R.T. -0.01 min
Lab File: BM018890.D
Acq: 20 Feb 2019 19:05

Instrument :
BNA_M
ClientSampleId :
SOIL-PILEMSD

Tot Ion	Ratio	Lower	Upper
82	100		
95	6.9	5.7	8.5
138	15.6	12.3	18.5

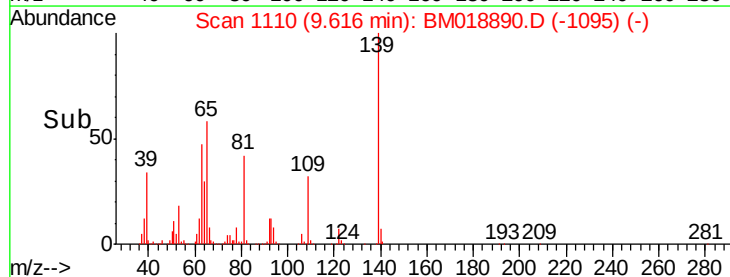
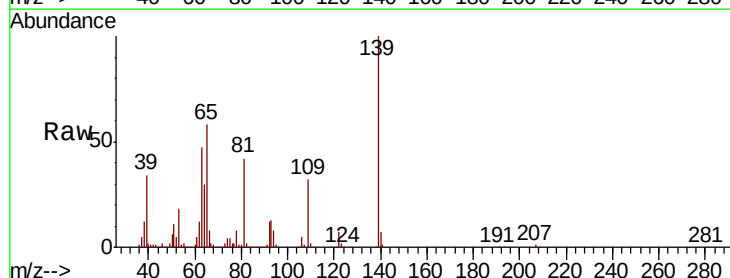
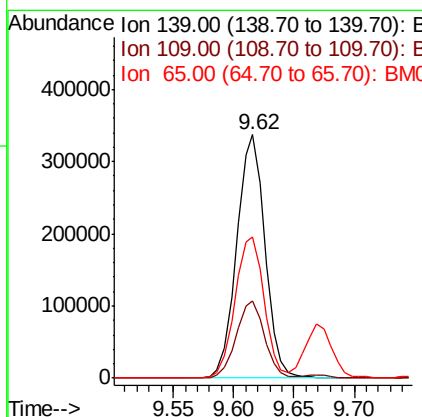
Manual Integrations
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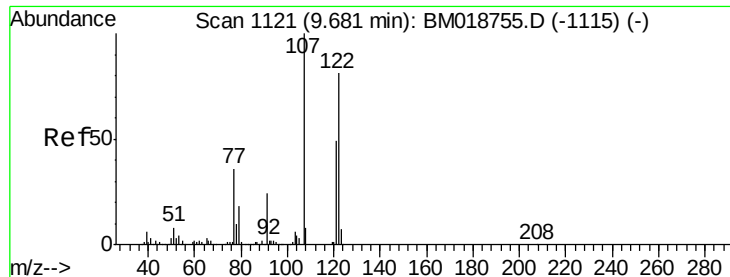
Sohil
2/21/2019 10:09:01 AM



#26
2-Nitrophenol
Concen: 46.868 ng
RT: 9.62 min Scan# 1110
Delta R.T. -0.01 min
Lab File: BM018890.D
Acq: 20 Feb 2019 19:05

Tgt Ion	Ratio	Lower	Upper
139	100		
109	31.9	25.2	37.8
65	57.9	47.0	70.4





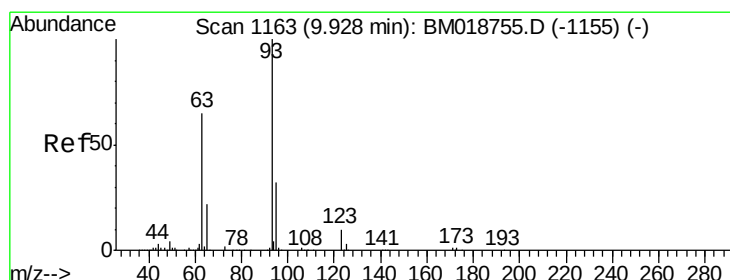
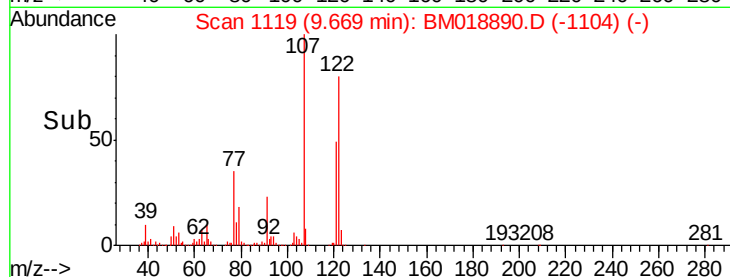
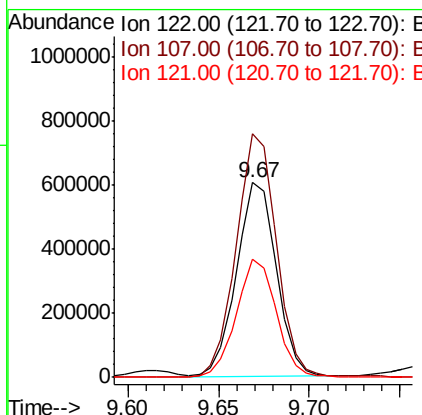
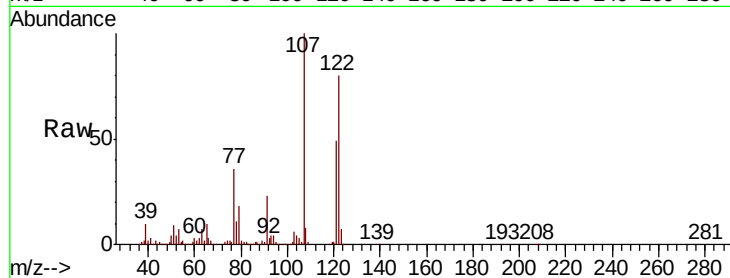
#27
2,4-Dimethylphenol
Concen: 53.945 ng
RT: 9.67 min Scan# 1119
Delta R.T. -0.01 min
Lab File: BM018890.D
Acq: 20 Feb 2019 19:05

Instrument :
BNA_M
ClientSampleId :
SOIL-PILEMSD

Tot Ion	Ratio	Lower	Upper
122	100		
107	125.2	97.6	146.4
121	60.8	47.9	71.9

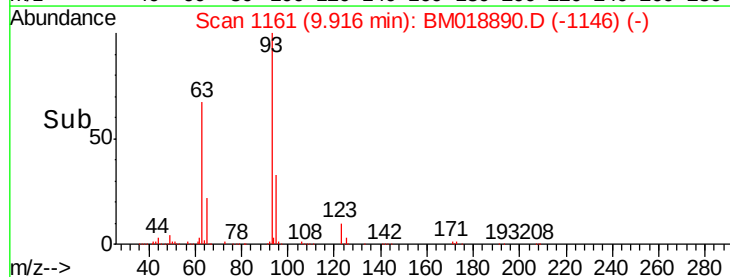
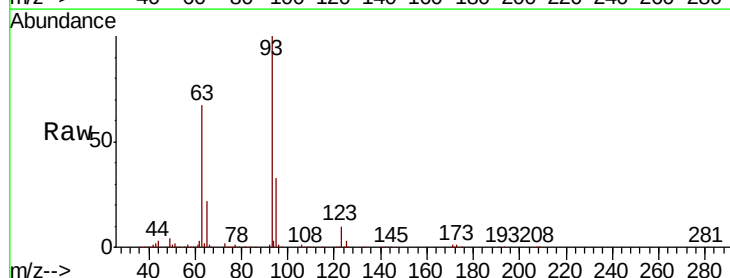
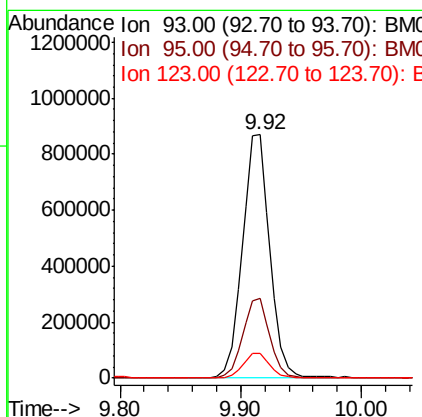
Manual Integrations
APPROVED

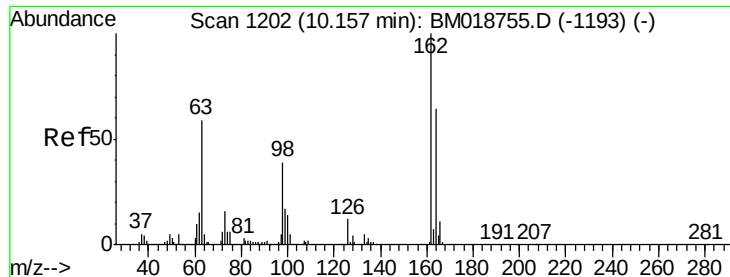
Sohil
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#28
bis(2-Chloroethoxy)methane
Concen: 46.635 ng
RT: 9.92 min Scan# 1161
Delta R.T. -0.01 min
Lab File: BM018890.D
Acq: 20 Feb 2019 19:05

Tgt Ion	Ratio	Lower	Upper
93	100		
95	32.9	25.6	38.4
123	10.2	8.2	12.4





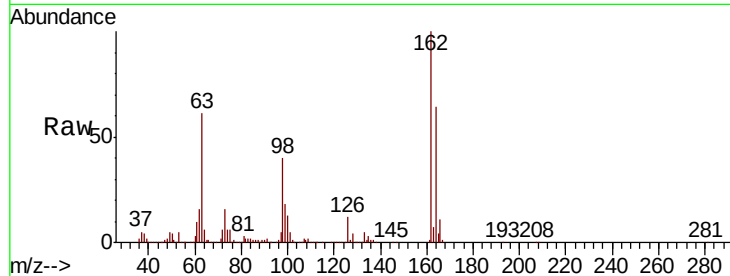
#29
2,4-Dichlorophenol
Concen: 49.002 ng
RT: 10.14 min Scan# 1199
Delta R.T. -0.02 min
Lab File: BM018890.D
Acq: 20 Feb 2019 19:05

Instrument :
BNA_M
ClientSampleId :
SOIL-PILEMSD

Tot Ion	Ratio	Resp Lower	Upper
162	100		
164	63.6	44.1	84.1
98	39.5	19.4	59.4

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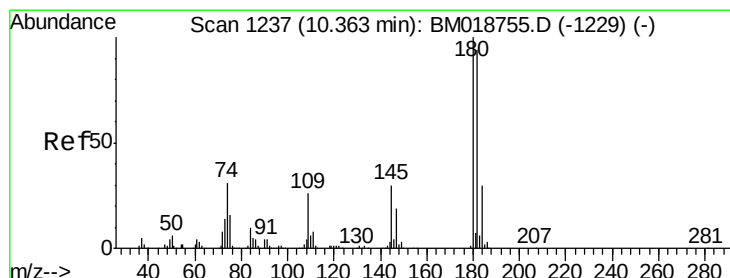
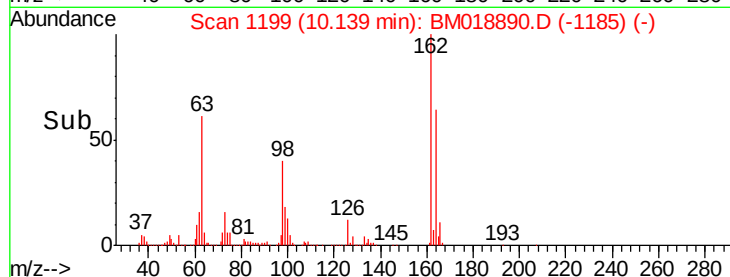
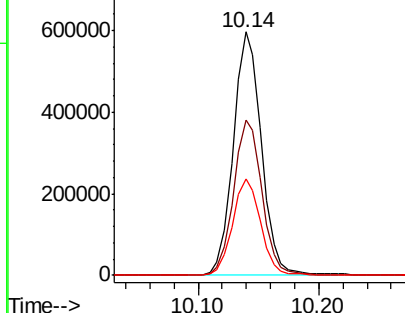


Abundance

Ion 162.00 (161.70 to 162.70): E

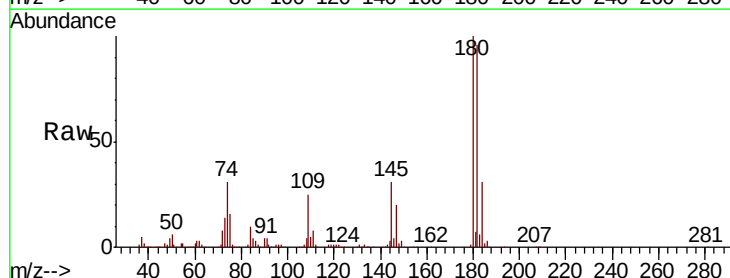
Ion 164.00 (163.70 to 164.70): E

Ion 98.00 (97.70 to 98.70): BM



#30
1,2,4-Trichlorobenzene
Concen: 44.094 ng
RT: 10.35 min Scan# 1235
Delta R.T. -0.01 min
Lab File: BM018890.D
Acq: 20 Feb 2019 19:05

Tgt Ion	Ratio	Resp Lower	Upper
180	100		
182	95.9	75.0	112.6
145	31.0	24.1	36.1

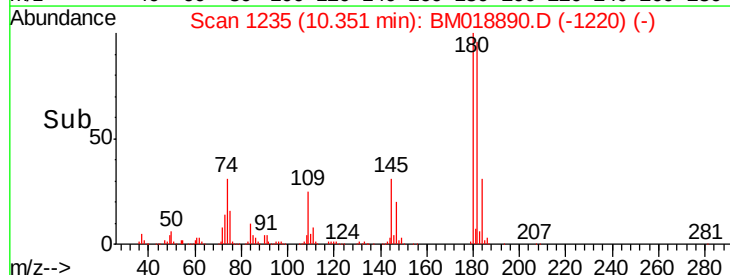
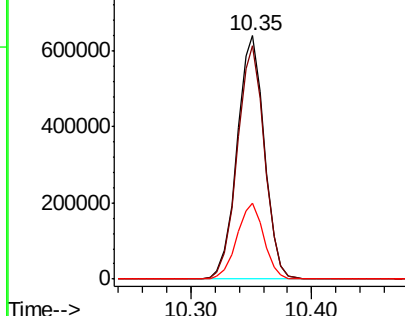


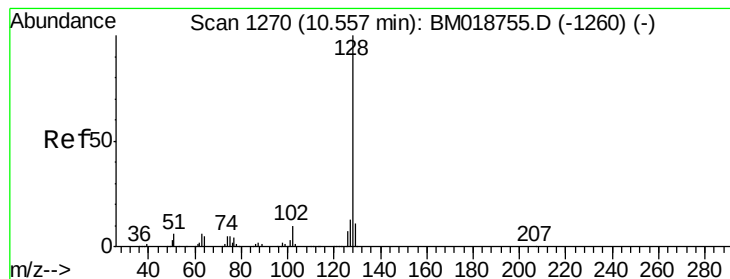
Abundance

Ion 180.00 (179.70 to 180.70): E

Ion 182.00 (181.70 to 182.70): E

Ion 145.00 (144.70 to 145.70): E





#31

Naphthalene

Concen: 48.028 ng

RT: 10.54 min Scan# 1267

Delta R.T. -0.02 min

Lab File: BM018890.D

Acq: 20 Feb 2019 19:05

Instrument :

BNA_M

ClientSampleId :

SOIL-PILEMSD

Tot Ion:128 Resp: 3087992

Ion Ratio Lower Upper

128 100

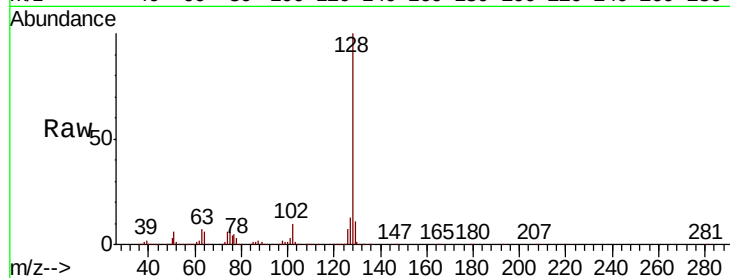
129 11.0 9.0 13.4

127 13.1 10.7 16.1

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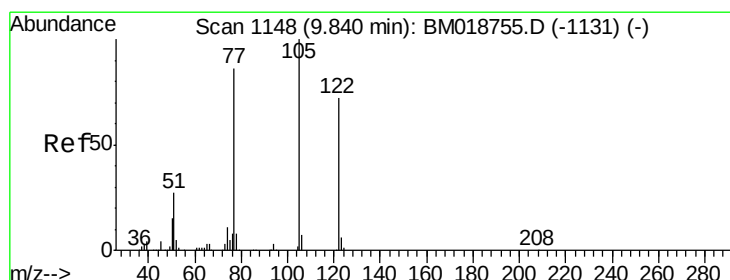
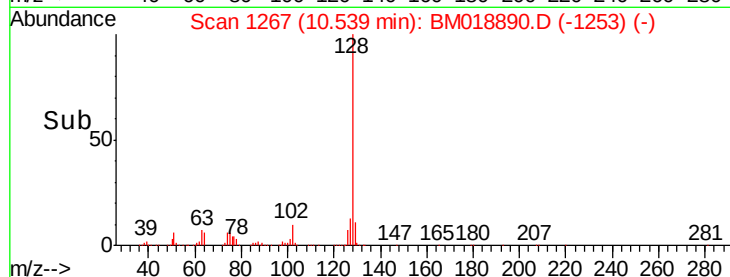
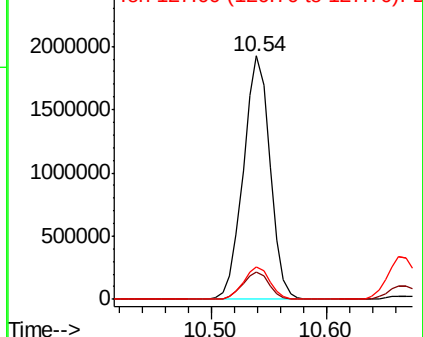


Abundance

Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#32

Benzoic acid

Concen: 16.023 ng

RT: 9.80 min Scan# 1141

Delta R.T. -0.04 min

Lab File: BM018890.D

Acq: 20 Feb 2019 19:05

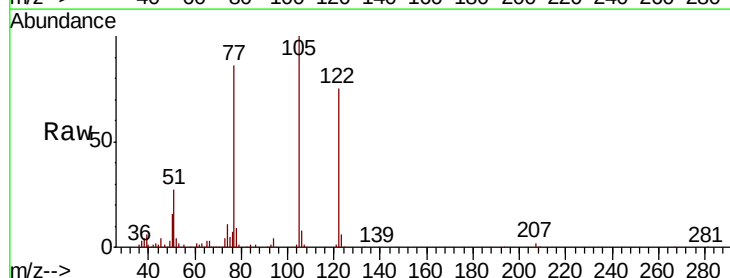
Tgt Ion:122 Resp: 240594

Ion Ratio Lower Upper

122 100

105 133.3 117.5 157.5

77 114.3 98.5 138.5

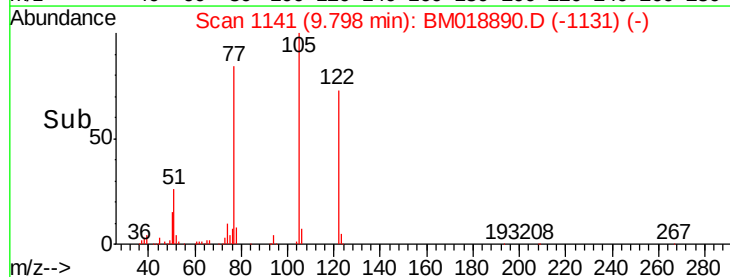
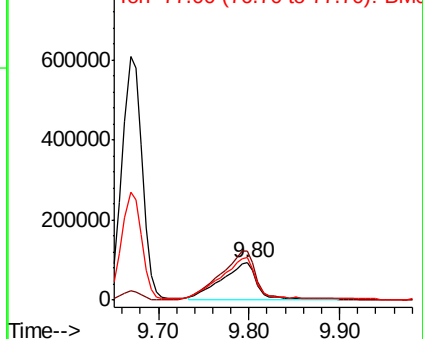


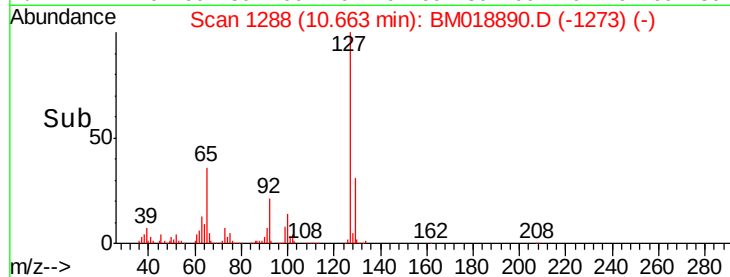
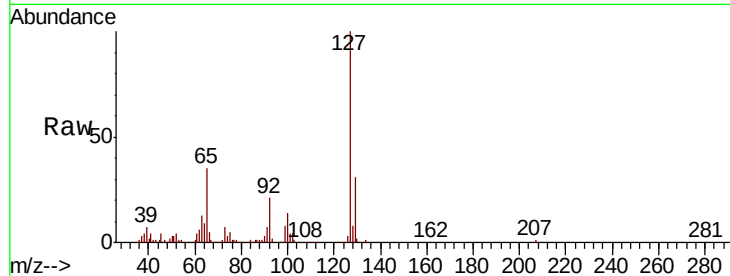
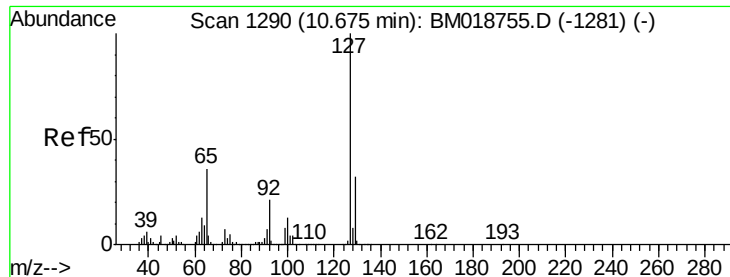
Abundance

Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): E





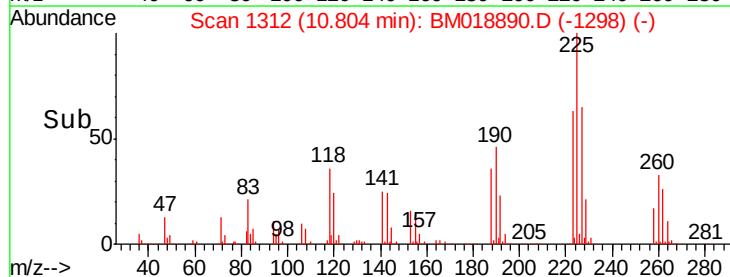
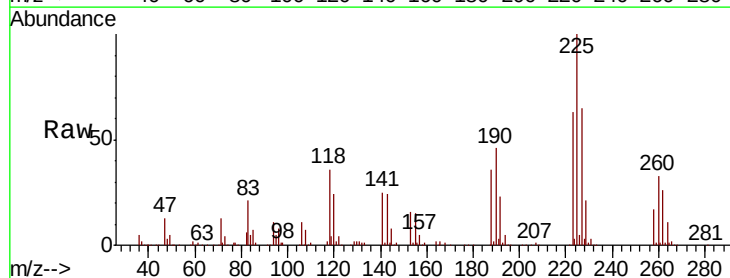
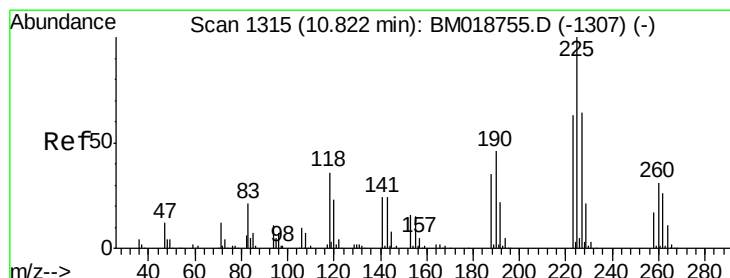
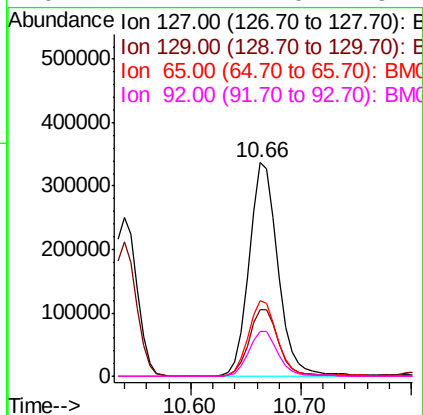
#33
4-Chloroaniline
Concen: 21.484 ng
RT: 10.66 min Scan# 1288
Delta R.T. -0.01 min
Lab File: BM018890.D
Acq: 20 Feb 2019 19:05

Tot Ion	Ratio	Lower	Upper
127	100		
129	31.3	25.7	38.5
65	35.5	28.7	43.1
92	21.2	17.0	25.4

Instrument :
BNA_M
ClientSampled :
SOIL-PILEMSD

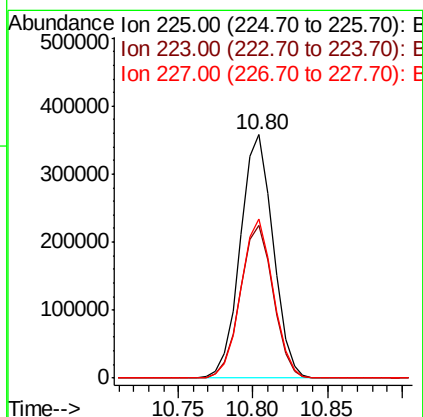
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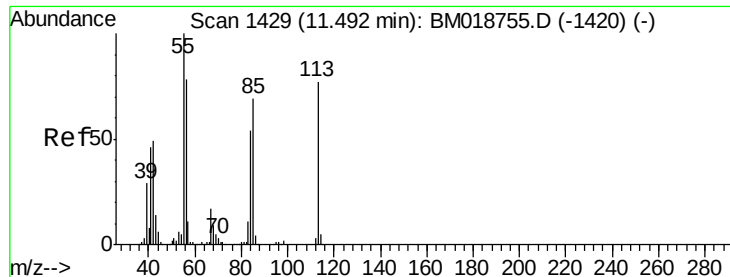
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#34
Hexachlorobutadiene
Concen: 41.169 ng
RT: 10.80 min Scan# 1312
Delta R.T. -0.02 min
Lab File: BM018890.D
Acq: 20 Feb 2019 19:05

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.9	50.1	75.1
227	65.2	51.4	77.0





#35

Caprolactam

Concen: 39.938 ng/mL

RT: 11.49 min Scan# 1428

Delta R.T. -0.01 min

Lab File: BM018890.D

Acq: 20 Feb 2019 19:05

Instrument :

BNA_M

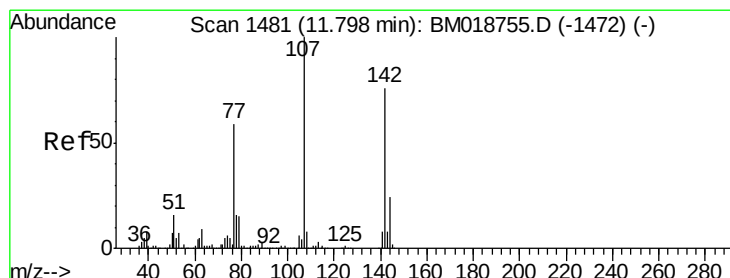
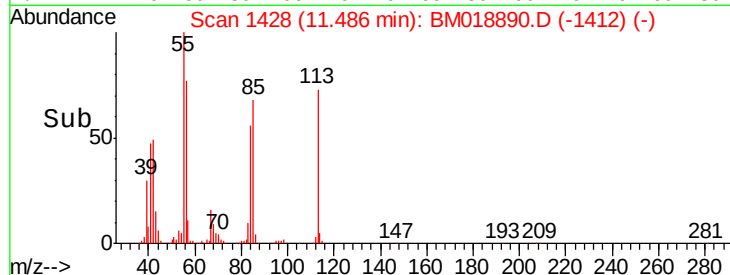
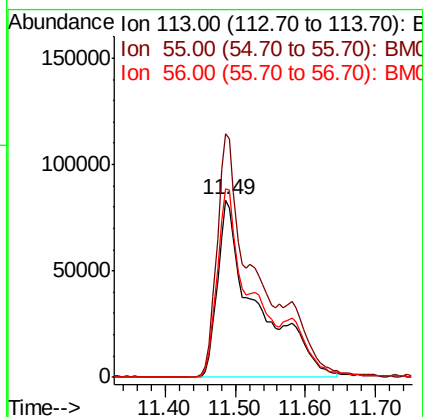
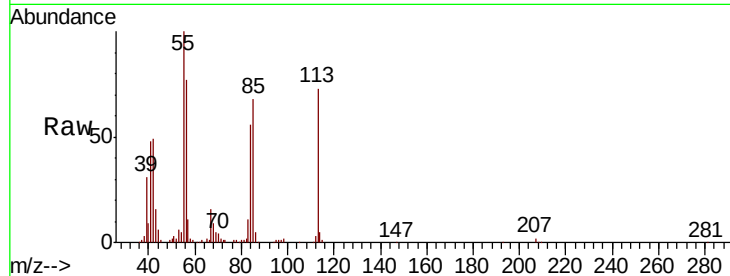
ClientSampleId :

SOIL-PILEMSD

Tot Ion:	113	Resp:	322159
Ion Ratio	Lower	Upper	
113	100		
55	137.5	110.7	150.7
56	106.4	82.4	122.4

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#36

4-Chloro-3-methylphenol

Concen: 47.693 ng/mL

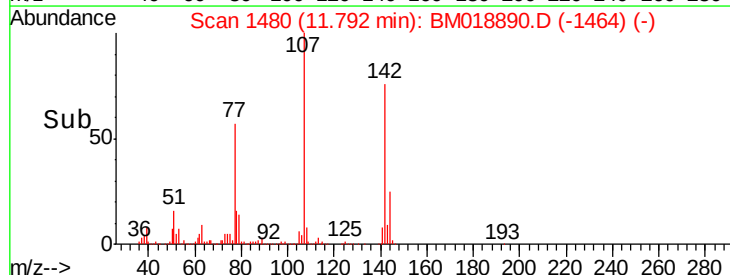
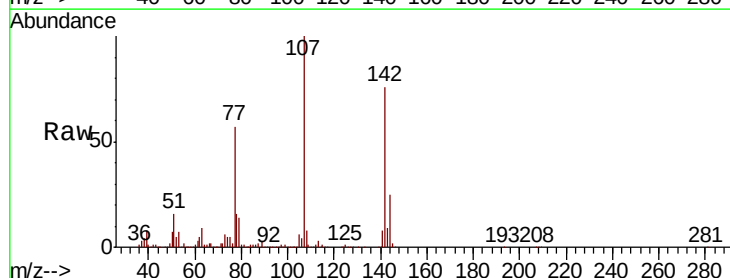
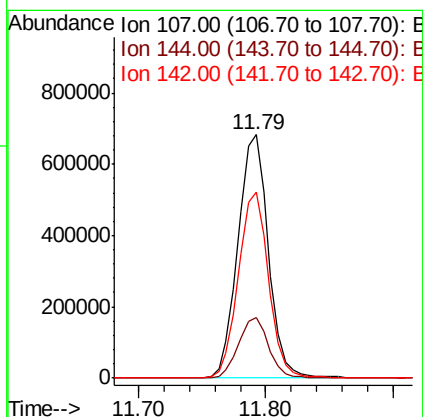
RT: 11.79 min Scan# 1480

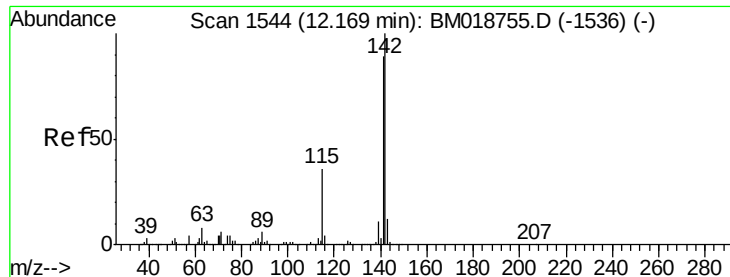
Delta R.T. -0.01 min

Lab File: BM018890.D

Acq: 20 Feb 2019 19:05

Tgt Ion:	107	Resp:	1136553
Ion Ratio	Lower	Upper	
107	100		
144	24.7	19.3	28.9
142	76.2	60.5	90.7





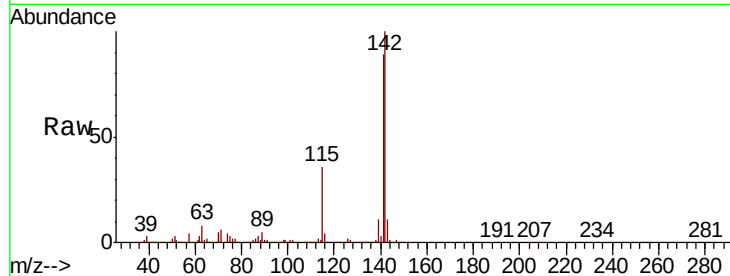
#37
2-Methylnaphthalene
Concen: 50.324 ng
RT: 12.16 min Scan# 1542
Delta R.T. -0.01 min
Lab File: BM018890.D
Acq: 20 Feb 2019 19:05

Instrument :
BNA_M
ClientSampleId :
SOIL-PILEMSD

Tot Ion	Ratio	Lower	Upper
142	100		
141	89.1	71.2	106.8
115	36.0	29.1	43.7

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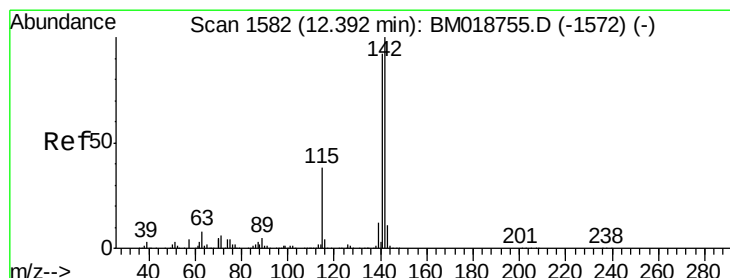
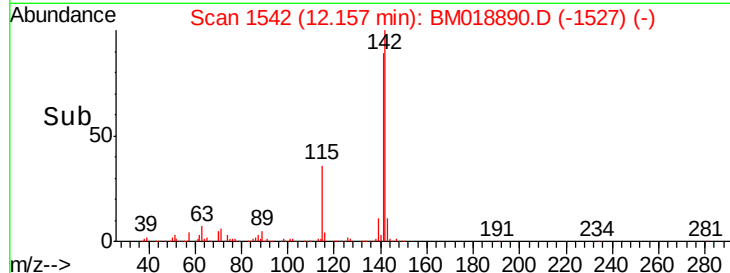
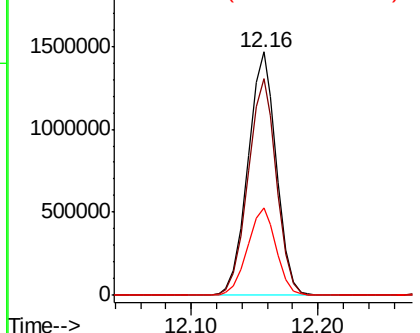


Abundance

Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#38
1-Methylnaphthalene
Concen: 48.691 ng
RT: 12.38 min Scan# 1580
Delta R.T. -0.01 min
Lab File: BM018890.D
Acq: 20 Feb 2019 19:05

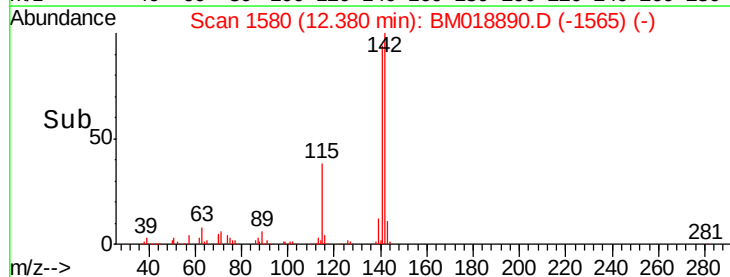
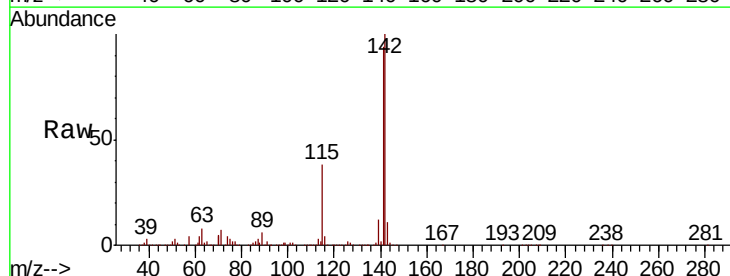
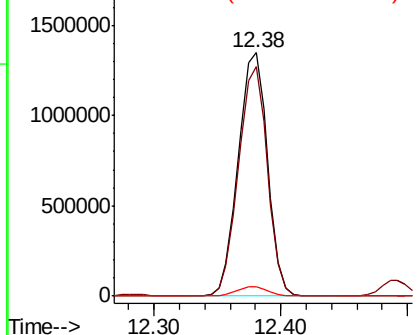
Tgt Ion	Ratio	Lower	Upper
142	100		
141	94.1	73.9	110.9
116	3.9	3.0	4.4

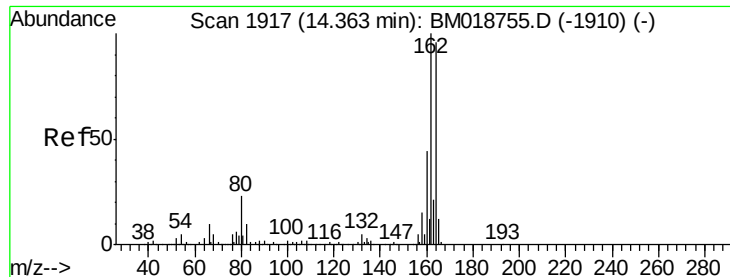
Abundance

Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 116.00 (115.70 to 116.70): E





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.35 min Scan# 1915

Delta R.T. -0.01 min

Lab File: BM018890.D

Acq: 20 Feb 2019 19:05

Instrument :

BNA_M

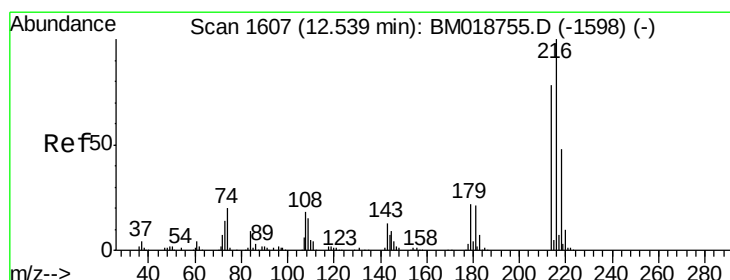
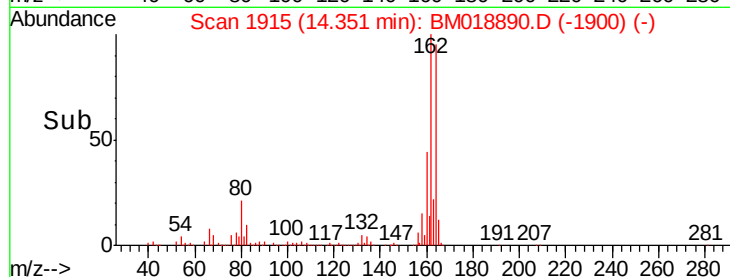
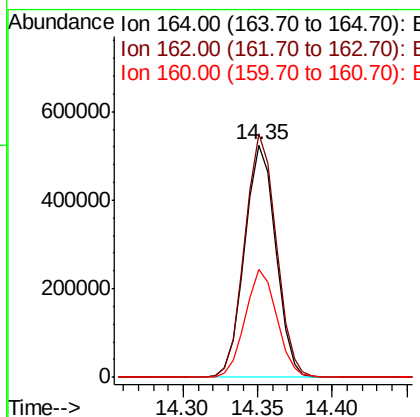
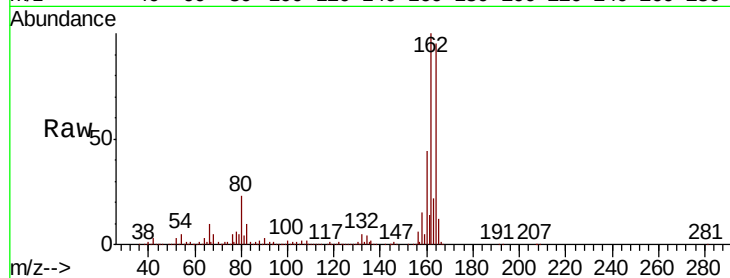
ClientSampleId :

SOIL-PILEMSD

Tot Ion:	164	Resp:	757441
Ion Ratio	Lower	Upper	
164	100		
162	104.9	83.4	125.0
160	46.6	36.6	55.0

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#40

1,2,4,5-Tetrachlorobenzene

Concen: 44.126 ng

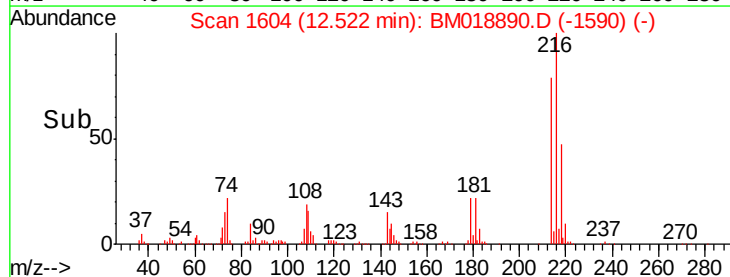
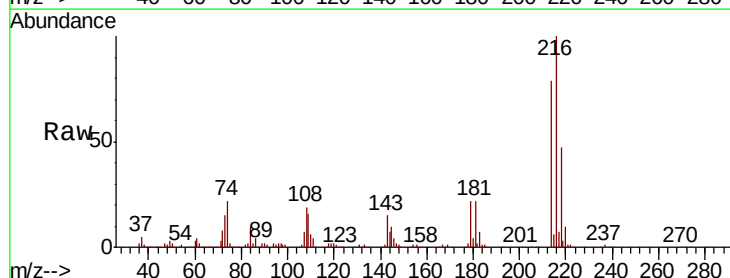
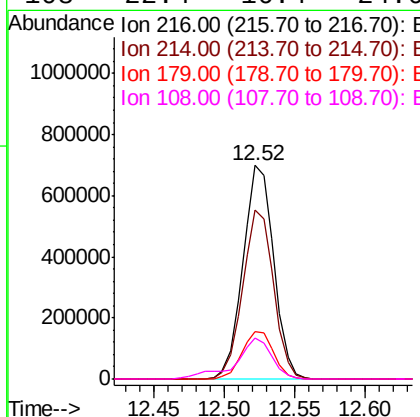
RT: 12.52 min Scan# 1604

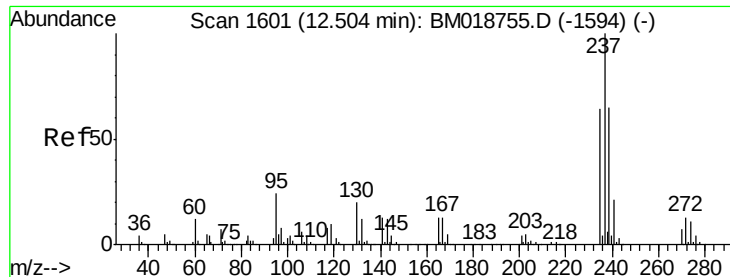
Delta R.T. -0.02 min

Lab File: BM018890.D

Acq: 20 Feb 2019 19:05

Tgt Ion:	216	Resp:	1069155
Ion Ratio	Lower	Upper	
216	100		
214	79.2	63.2	94.8
179	22.8	17.8	26.8
108	22.4	16.4	24.6





#41

Hexachlorocyclopentadiene

Concen: 83.730 ng

RT: 12.49 min Scan# 1599

Delta R.T. -0.01 min

Lab File: BM018890.D

Acq: 20 Feb 2019 19:05

Instrument :

BNA_M

ClientSampleId :

SOIL-PILEMSD

Tot Ion:237 Resp: 1037246

Ion Ratio Lower Upper

237 100

235 61.8 43.7 83.7

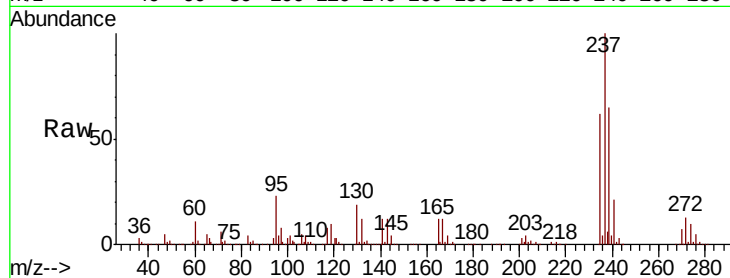
272 13.2 0.0 33.3

Manual Integrations

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Sohil

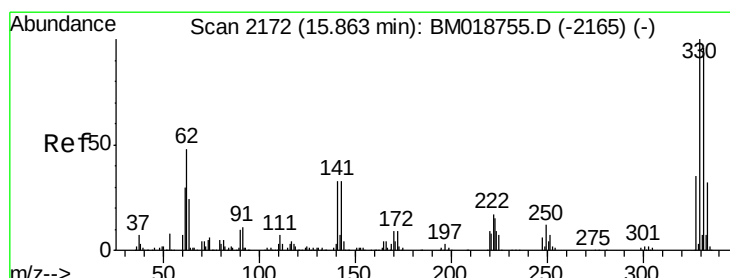
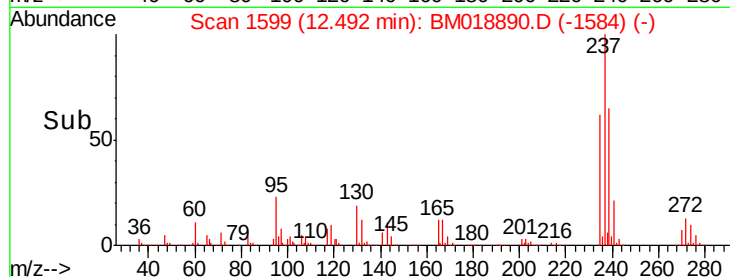
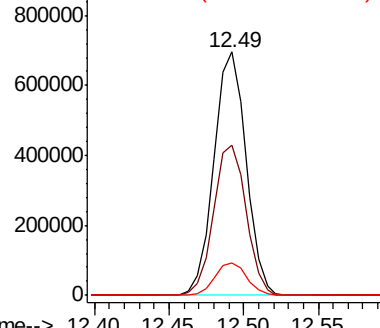
2/21/2019 10:09:01 AM



Abundance Ion 236.80 (236.50 to 237.50): E

Ion 234.90 (234.60 to 235.60): E

Ion 271.75 (271.45 to 272.45): E



#42

2,4,6-Tribromophenol

Concen: 151.090 ng

RT: 15.85 min Scan# 2170

Delta R.T. -0.01 min

Lab File: BM018890.D

Acq: 20 Feb 2019 19:05

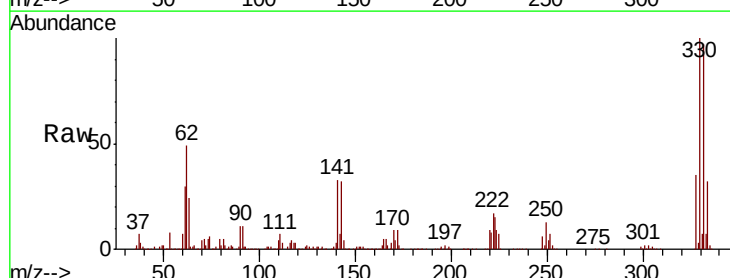
Tgt Ion:330 Resp: 1649647

Ion Ratio Lower Upper

330 100

332 96.7 76.9 115.3

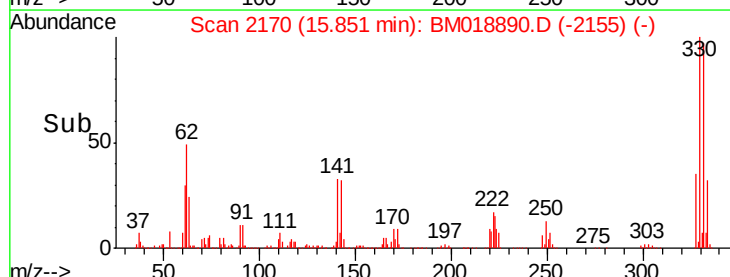
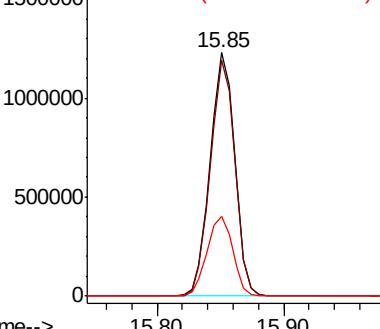
141 34.2 28.7 43.1

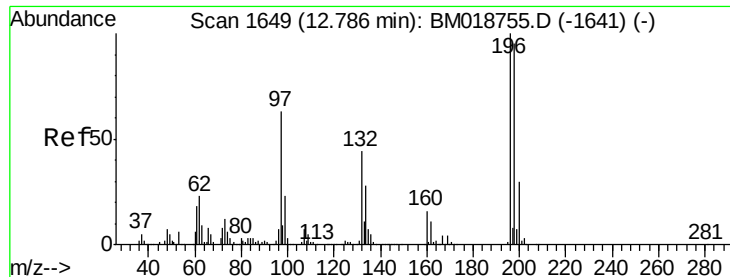


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





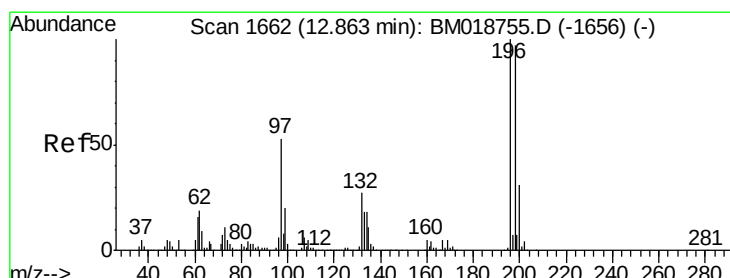
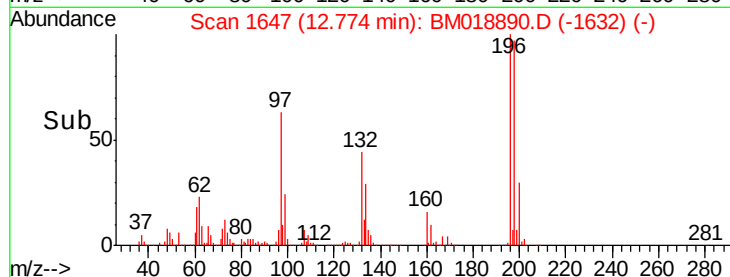
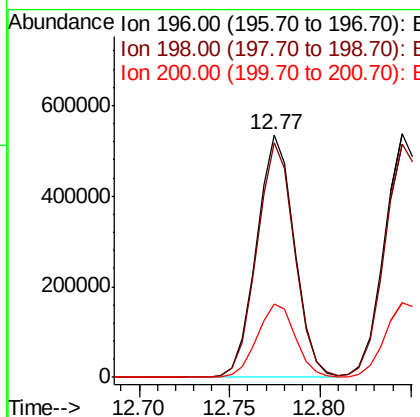
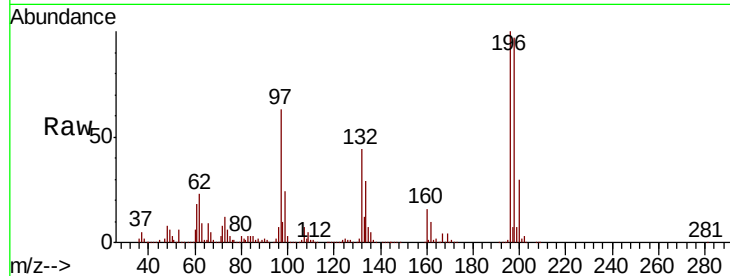
#43
 2,4,6-Trichlorophenol
 Concen: 48.427 ng
 RT: 12.77 min Scan# 1647
 Delta R.T. -0.01 min
 Lab File: BM018890.D
 Acq: 20 Feb 2019 19:05

Instrument :
 BNA_M
 ClientSampleId :
 SOIL-PILEMSD

Tot Ion	Ratio	Resp	Lower	Upper
196	100	776778		
198	96.6	76.2	114.2	
200	30.1	24.2	36.2	

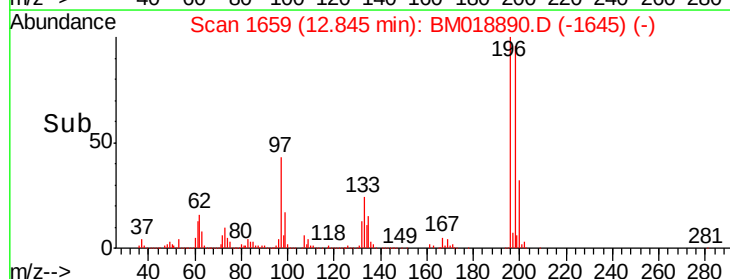
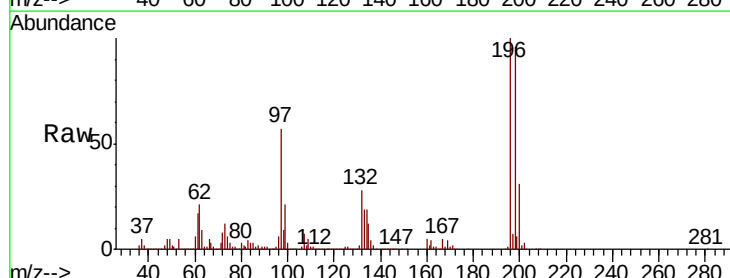
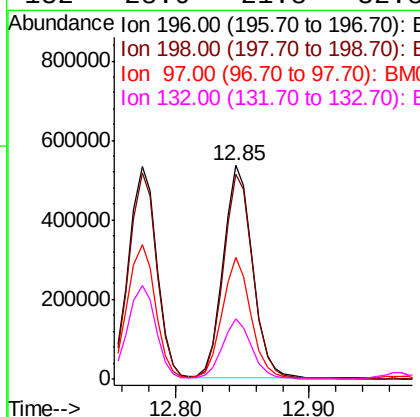
Manual Integrations
 APPROVED

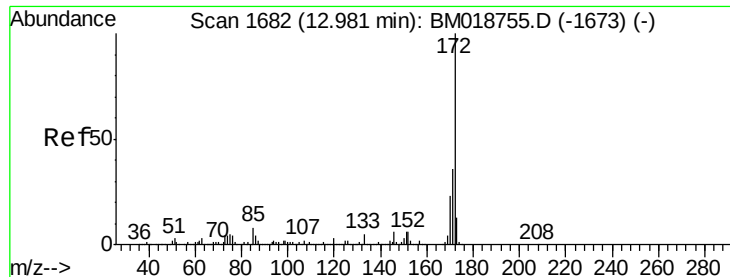
Sohil
 2/21/2019 10:09:01 AM



#44
 2,4,5-Trichlorophenol
 Concen: 49.095 ng
 RT: 12.85 min Scan# 1659
 Delta R.T. -0.02 min
 Lab File: BM018890.D
 Acq: 20 Feb 2019 19:05

Tgt Ion	Ratio	Resp	Lower	Upper
196	100	825398		
198	95.7	77.6	116.4	
97	56.9	42.8	64.2	
132	28.0	21.8	32.8	





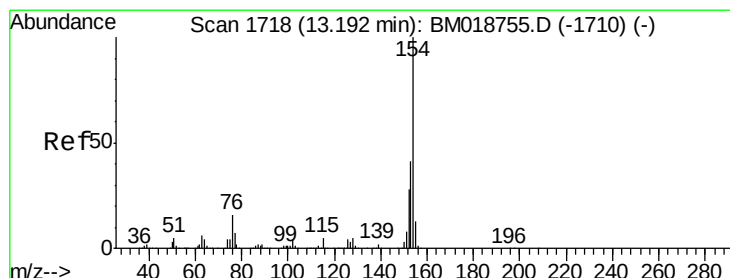
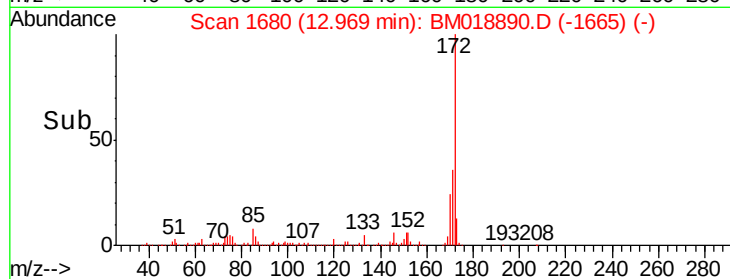
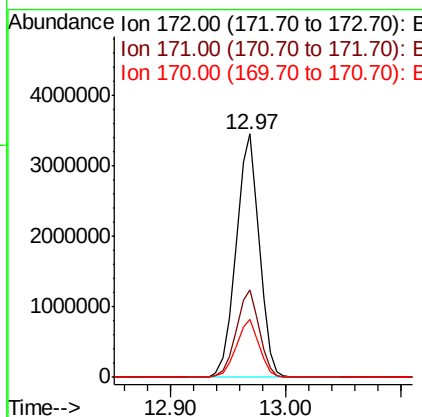
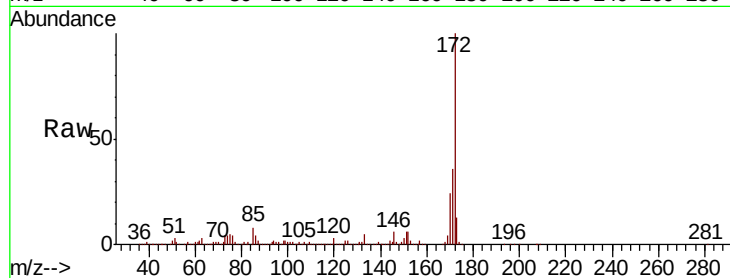
#45
2-Fluorobiphenyl
Concen: 83.535 ng
RT: 12.97 min Scan# 1680
Delta R.T. -0.01 min
Lab File: BM018890.D
Acq: 20 Feb 2019 19:05

Instrument :
BNA_M
ClientSampleId :
SOIL-PILEMSD

Tot Ion	Ratio	Lower	Upper
172	100		
171	36.0	29.0	43.6
170	23.8	18.6	28.0

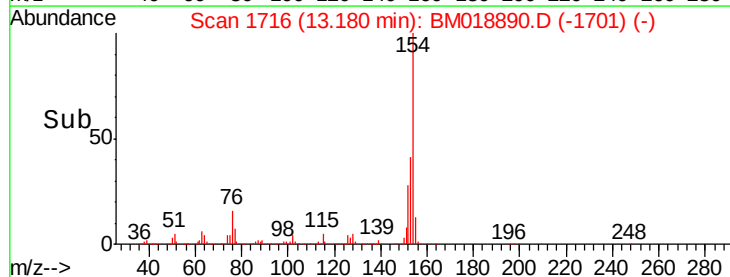
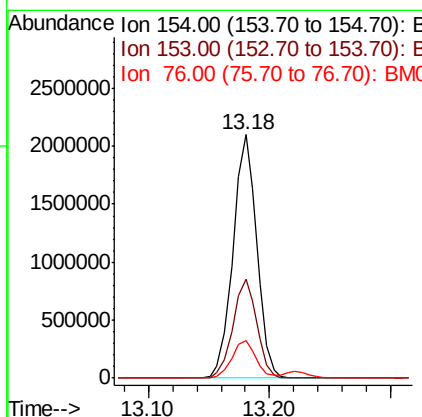
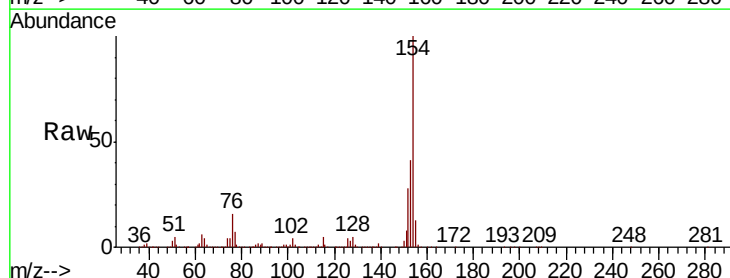
Manual Integrations
APPROVED

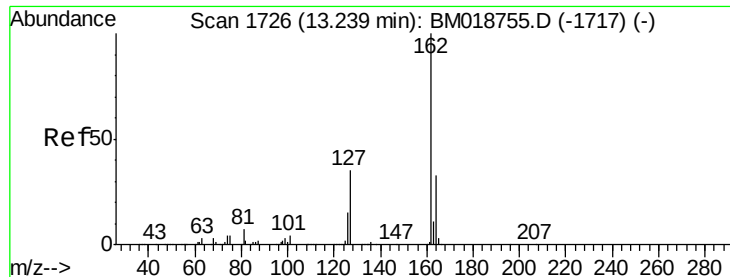
Sohil
2/21/2019 10:09:01 AM



#46
1,1'-Biphenyl
Concen: 44.137 ng
RT: 13.18 min Scan# 1716
Delta R.T. -0.01 min
Lab File: BM018890.D
Acq: 20 Feb 2019 19:05

Tgt Ion	Ratio	Lower	Upper
154	100		
153	40.6	21.1	61.1
76	15.6	0.0	35.7





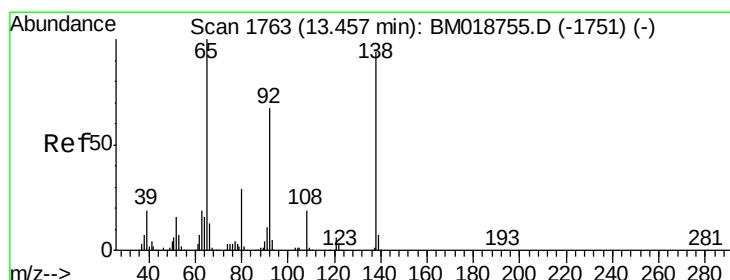
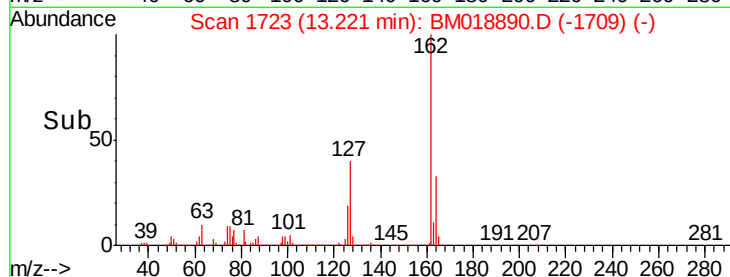
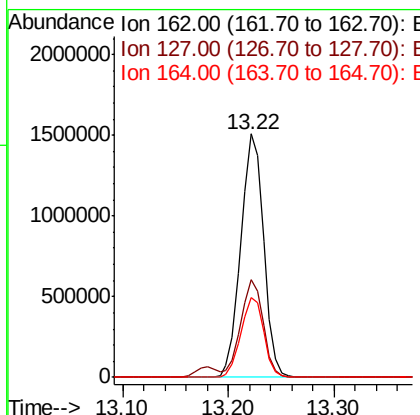
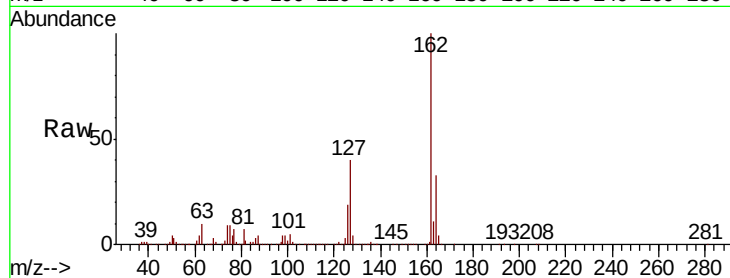
#47
2-Chloronaphthalene
Concen: 44.782 ng
RT: 13.22 min Scan# 1723
Delta R.T. -0.02 min
Lab File: BM018890.D
Acq: 20 Feb 2019 19:05

Instrument :
BNA_M
ClientSampleId :
SOIL-PILEMSD

Tot Ion	Ratio	Lower	Upper
162	100		
127	40.2	31.1	46.7
164	33.0	26.4	39.6

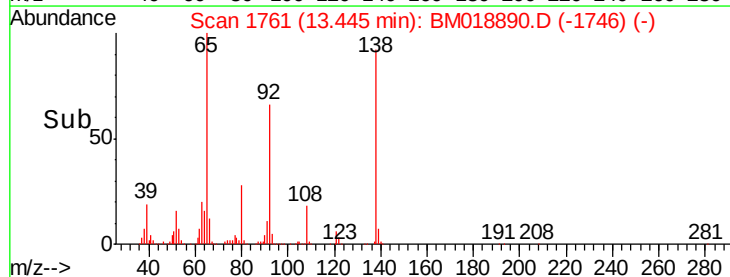
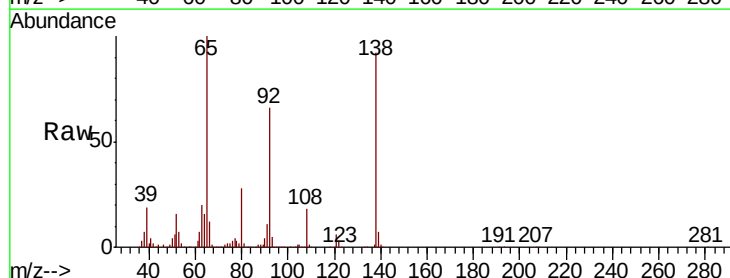
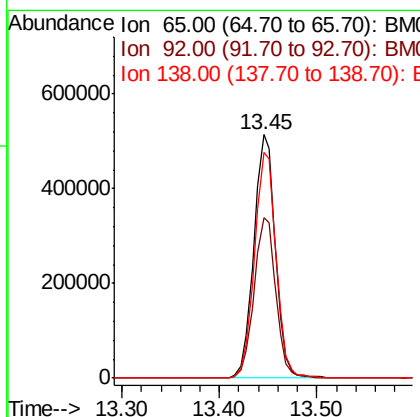
Manual Integrations
APPROVED

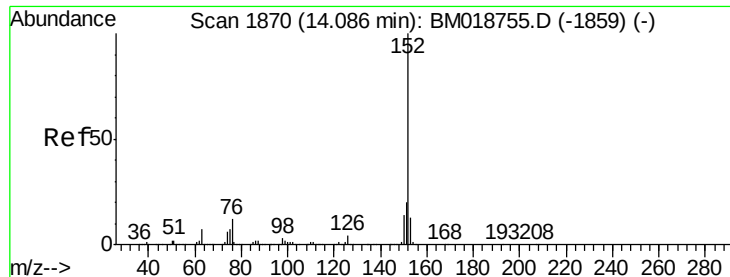
Sohil
2/21/2019 10:09:01 AM



#48
2-Nitroaniline
Concen: 48.261 ng
RT: 13.45 min Scan# 1761
Delta R.T. -0.01 min
Lab File: BM018890.D
Acq: 20 Feb 2019 19:05

Tgt Ion	Ratio	Lower	Upper
65	100		
92	65.8	54.0	81.0
138	92.5	74.9	112.3





#49

Acenaphthylene

Concen: 49.046 ng

RT: 14.07 min Scan# 1868

Delta R.T. -0.01 min

Lab File: BM018890.D

Acq: 20 Feb 2019 19:05

Instrument :

BNA_M

ClientSampleId :

SOIL-PILEMSD

Tot Ion:152 Resp: 3677735

Ion Ratio Lower Upper

152 100

151 20.2 15.8 23.8

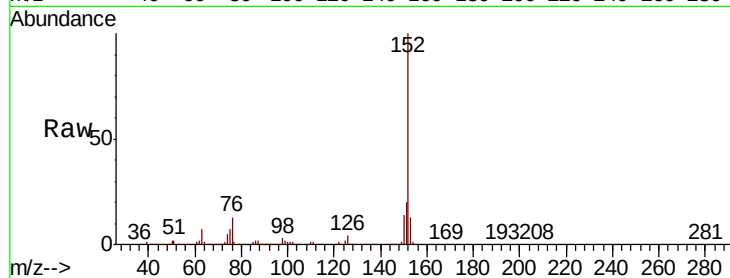
153 13.2 10.5 15.7

Manual Integrations

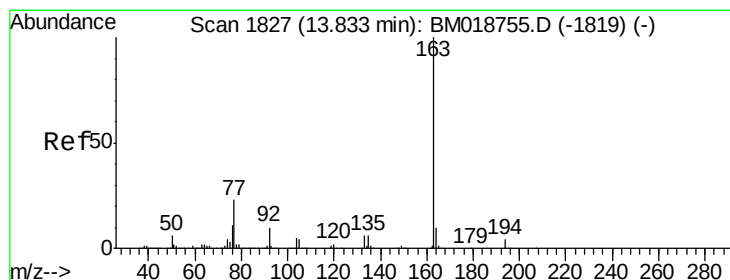
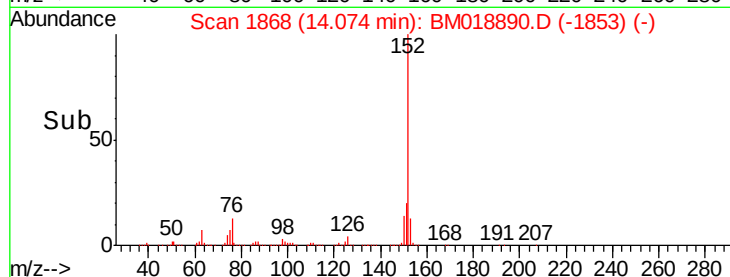
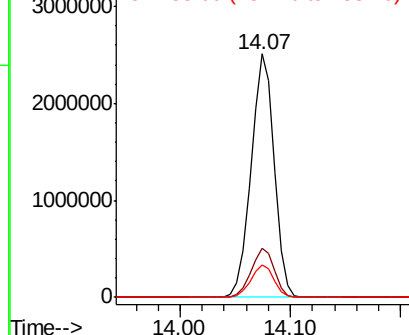
APPROVED

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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



#50

Dimethylphthalate

Concen: 49.501 ng

RT: 13.82 min Scan# 1825

Delta R.T. -0.01 min

Lab File: BM018890.D

Acq: 20 Feb 2019 19:05

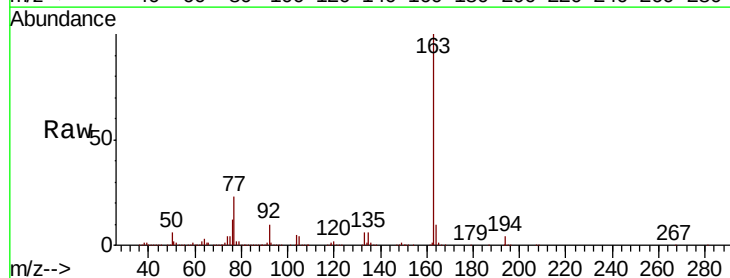
Tgt Ion:163 Resp: 3124728

Ion Ratio Lower Upper

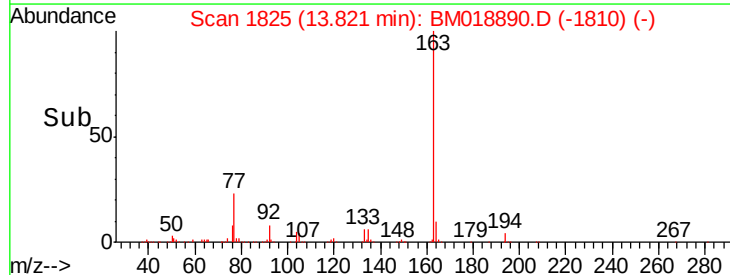
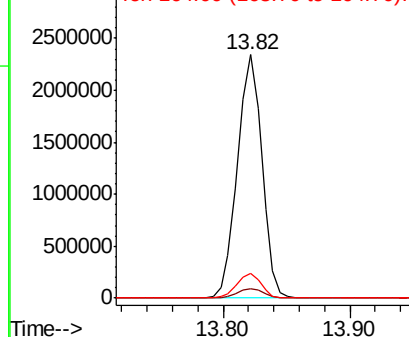
163 100

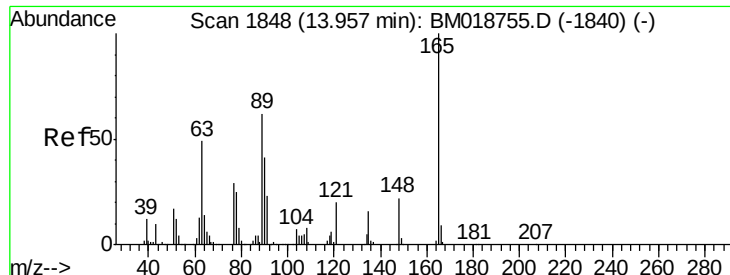
194 4.0 3.2 4.8

164 10.0 7.8 11.8



Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E





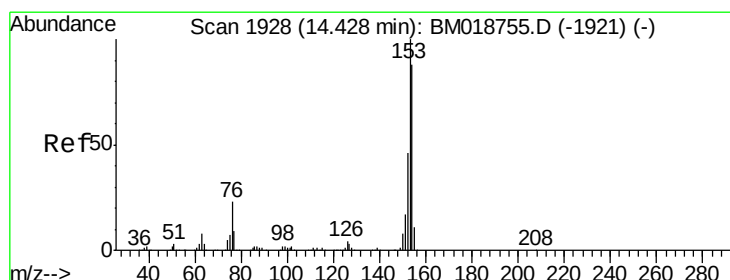
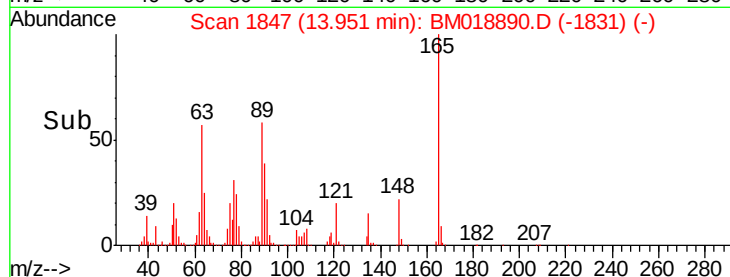
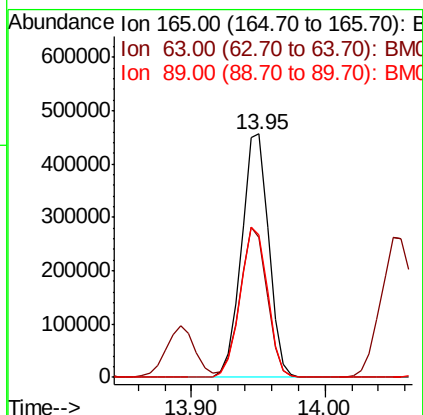
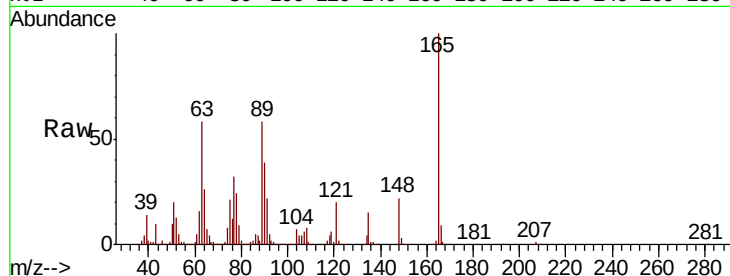
#51
2,6-Dinitrotoluene
Concen: 46.734 ng
RT: 13.95 min Scan# 1847
Delta R.T. -0.01 min
Lab File: BM018890.D
Acq: 20 Feb 2019 19:05

Instrument :
BNA_M
ClientSampleId :
SOIL-PILEMSD

Tot Ion	Ratio	Resp	Lower	Upper
165	100	639056		
63	57.5		48.9	73.3
89	58.3		49.4	74.0

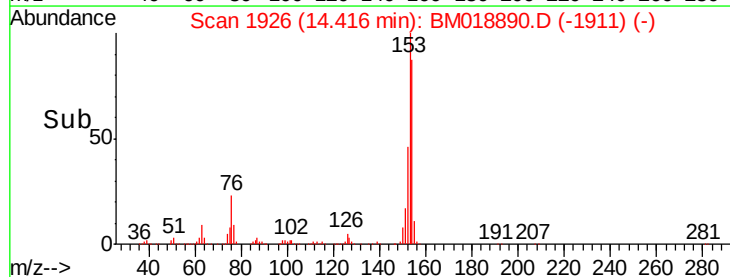
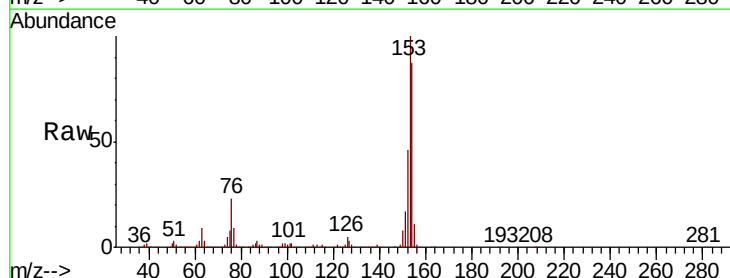
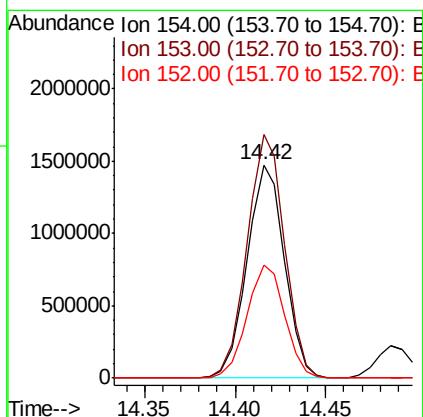
Manual Integrations
APPROVED

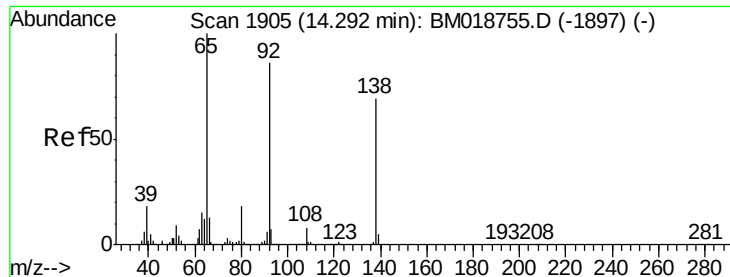
Sohil
2/21/2019 10:09:01 AM



#52
Acenaphthene
Concen: 45.819 ng
RT: 14.42 min Scan# 1926
Delta R.T. -0.01 min
Lab File: BM018890.D
Acq: 20 Feb 2019 19:05

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	2106708		
153	114.4		91.3	136.9
152	53.2		42.2	63.4





#53

3-Nitroaniline

Concen: 28.997 ng

RT: 14.28 min Scan# 1903

Delta R.T. -0.01 min

Lab File: BM018890.D

Acq: 20 Feb 2019 19:05

Instrument :

BNA_M

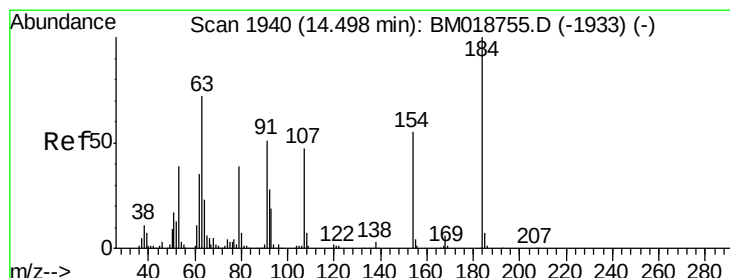
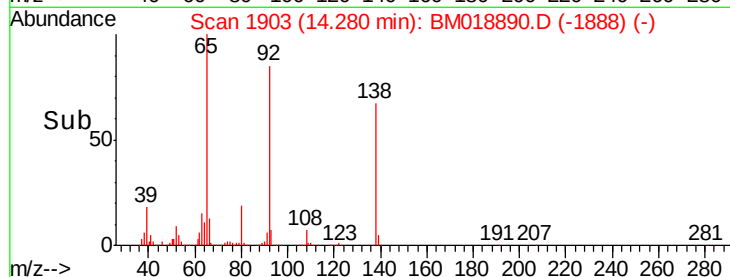
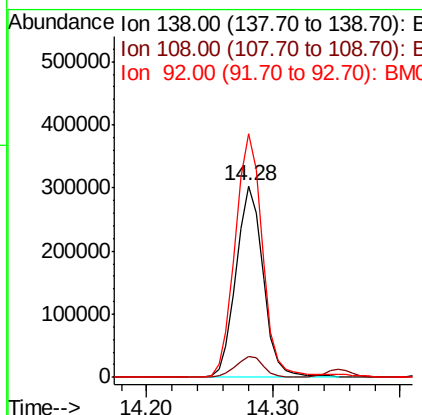
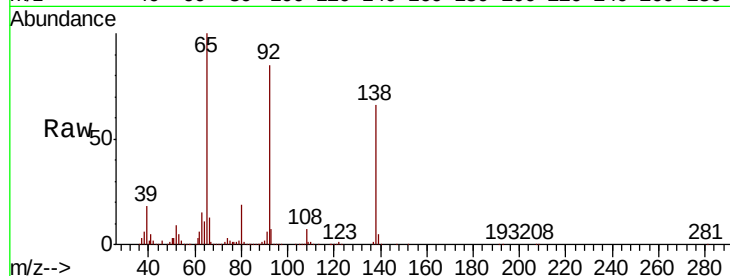
ClientSampled :

SOIL-PILEMSD

Tot Ion:	138	Resp:	448021
Ion Ratio	Lower	Upper	
138	100		
108	10.9	9.1	13.7
92	127.2	99.7	149.5

Manual Integrations
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2/21/2019 10:09:01 AM



#54

2,4-Dinitrophenol

Concen: 57.903 ng

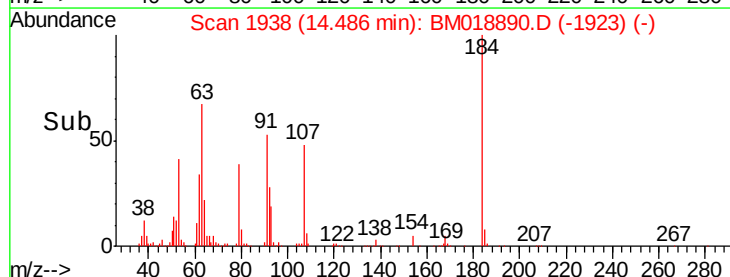
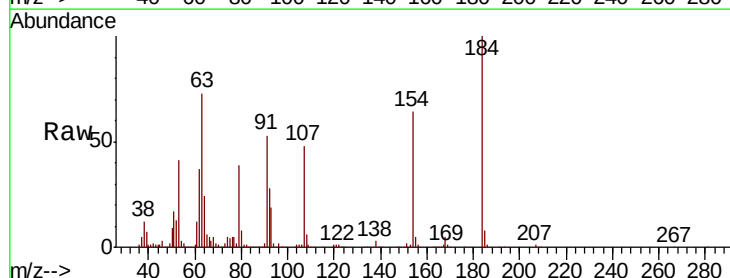
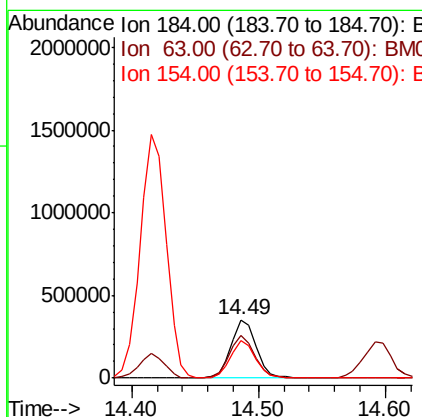
RT: 14.49 min Scan# 1938

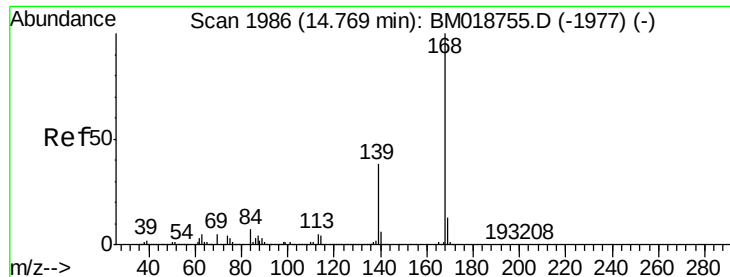
Delta R.T. -0.01 min

Lab File: BM018890.D

Acq: 20 Feb 2019 19:05

Tgt Ion:	184	Resp:	487526
Ion Ratio	Lower	Upper	
184	100		
63	73.5	58.0	87.0
154	63.6	50.3	75.5





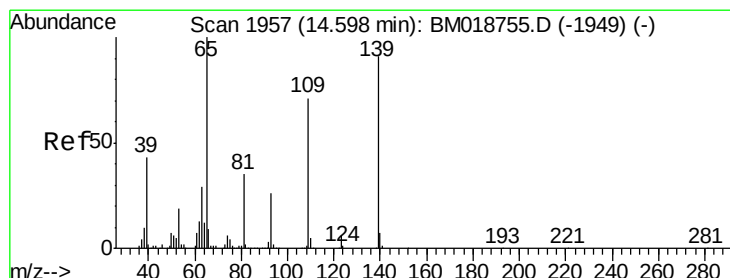
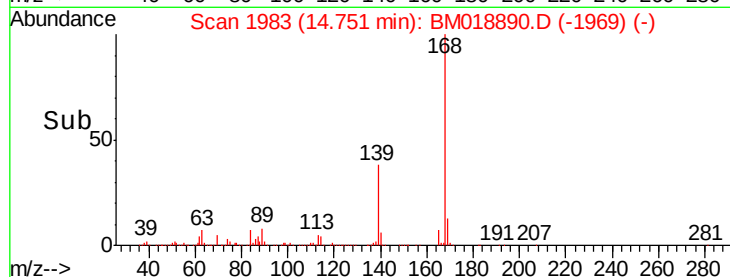
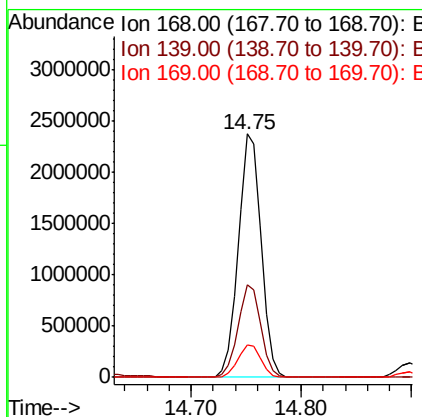
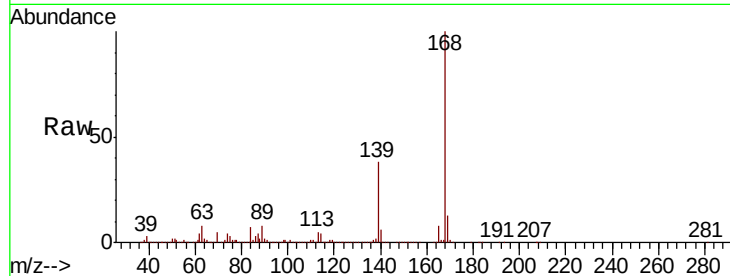
#55
Dibenzofuran
Concen: 45.695 ng
RT: 14.75 min Scan# 1983
Delta R.T. -0.02 min
Lab File: BM018890.D
Acq: 20 Feb 2019 19:05

Instrument :
BNA_M
ClientSampleId :
SOIL-PILEMSD

Tot Ion:168 Resp: 3453332
Ion Ratio Lower Upper
168 100
139 38.1 30.7 46.1
169 13.5 10.3 15.5

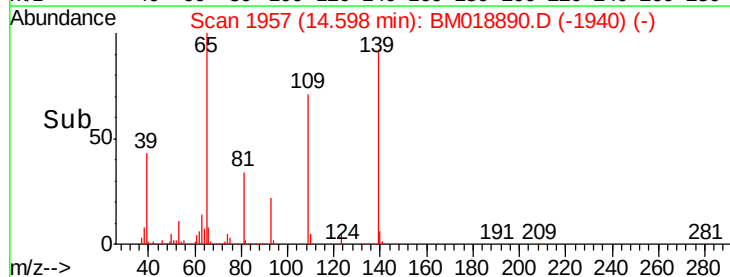
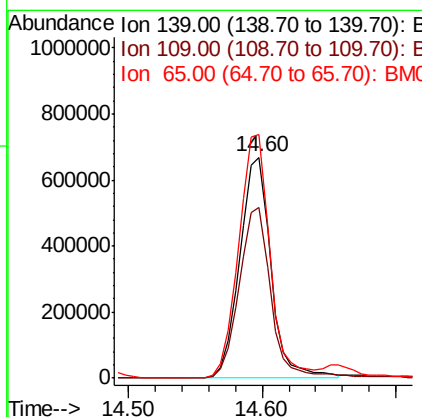
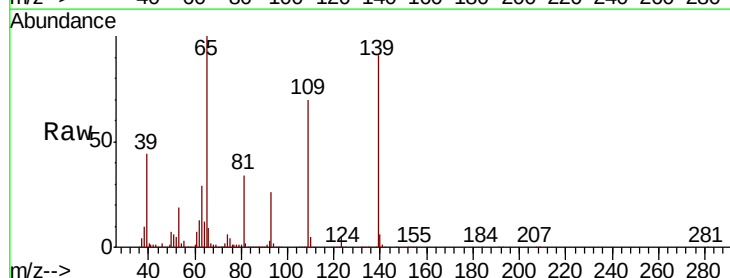
Manual Integrations
APPROVED

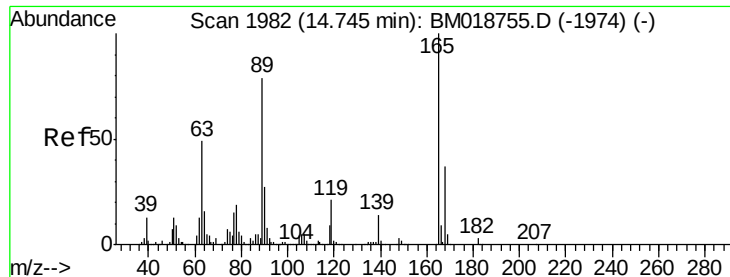
Sohil
2/21/2019 10:09:01 AM



#56
4-Nitrophenol
Concen: 87.732 ng
RT: 14.60 min Scan# 1957
Delta R.T. -0.00 min
Lab File: BM018890.D
Acq: 20 Feb 2019 19:05

Tgt Ion:139 Resp: 1082065
Ion Ratio Lower Upper
139 100
109 77.2 58.4 98.4
65 110.1 89.8 129.8





#57

2,4-Dinitrotoluene

Concen: 48.077 ng

RT: 14.74 min Scan# 1981

Delta R.T. -0.01 min

Lab File: BM018890.D

Acq: 20 Feb 2019 19:05

Instrument :

BNA_M

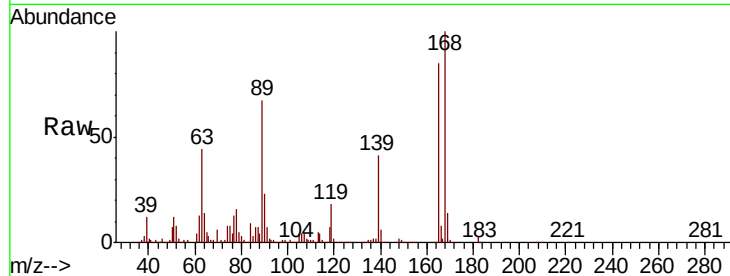
ClientSampled :

SOIL-PILEMSD

Tot Ion:	165	Resp:	905801
Ion Ratio	Lower	Upper	
165	100		
63	52.2	39.6	59.4
89	78.7	63.5	95.3
182	3.1	2.2	3.4

Manual Integrations
APPROVED

Sohil
2/21/2019 10:09:01 AM



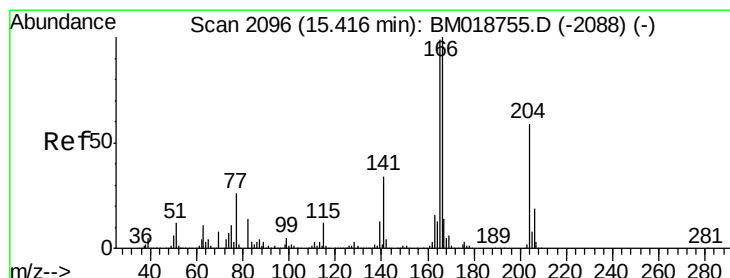
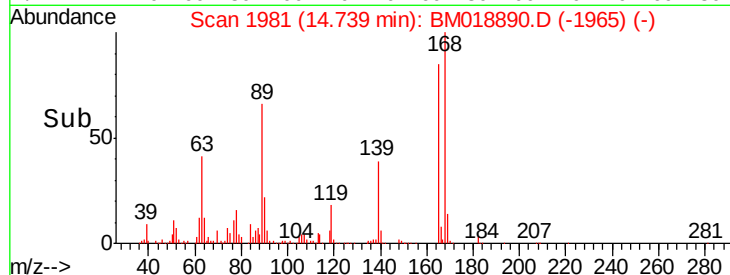
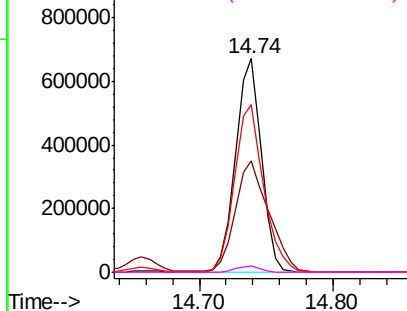
Abundance

Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BM

Ion 89.00 (88.70 to 89.70): BM

Ion 182.00 (181.70 to 182.70): E



#58

Fluorene

Concen: 48.400 ng

RT: 15.40 min Scan# 2094

Delta R.T. -0.01 min

Lab File: BM018890.D

Acq: 20 Feb 2019 19:05

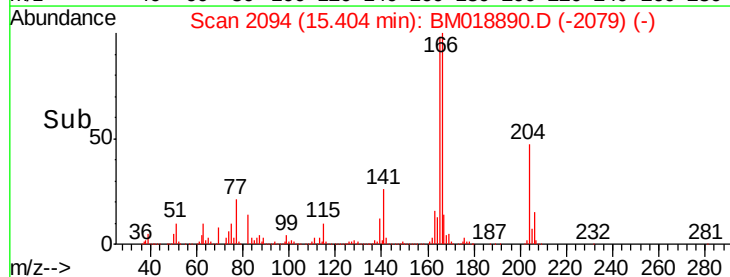
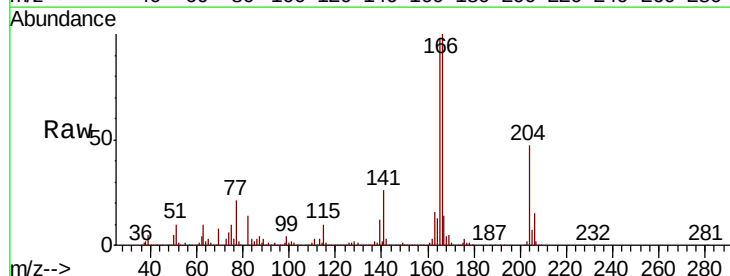
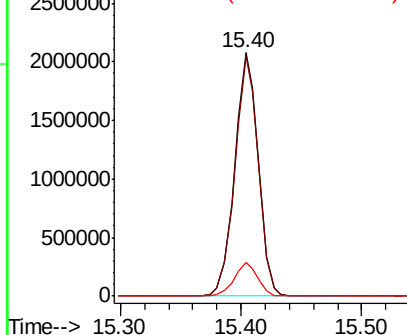
Tgt Ion:	166	Resp:	2798280
Ion Ratio	Lower	Upper	
166	100		
165	98.3	79.1	118.7
167	13.6	11.0	16.4

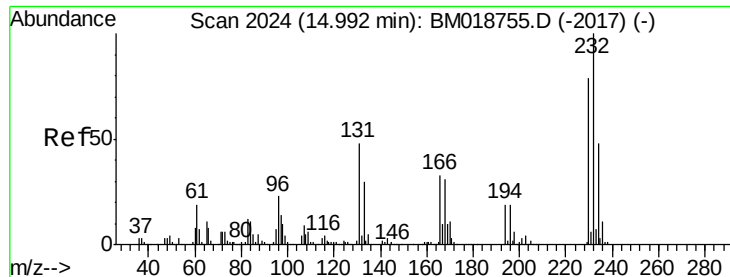
Abundance

Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





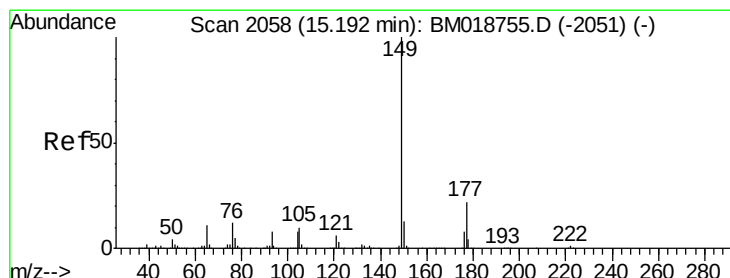
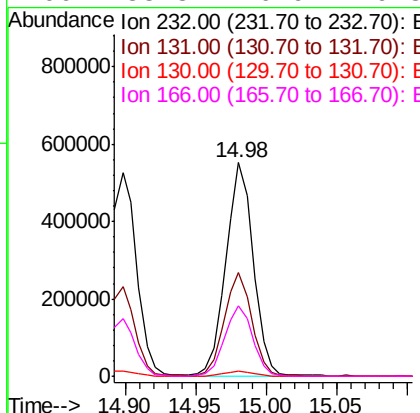
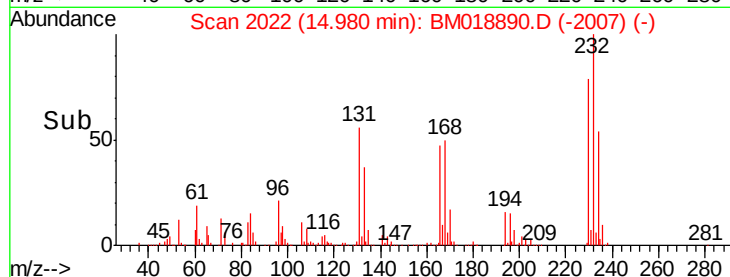
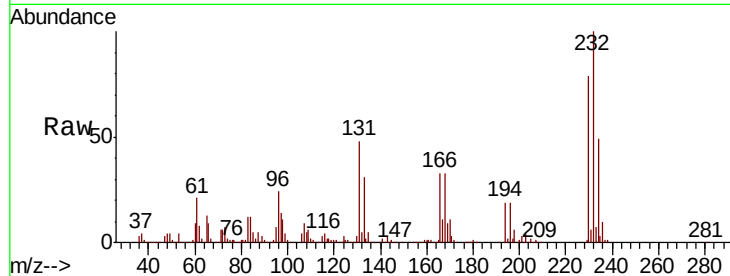
#59
2,3,4,6-Tetrachlorophenol
Concen: 49.948 ng
RT: 14.98 min Scan# 2022
Delta R.T. -0.01 min
Lab File: BM018890.D
Acq: 20 Feb 2019 19:05

Instrument :
BNA_M
ClientSampleId :
SOIL-PILEMSD

Tot Ion	Ratio	Lower	Upper
232	100		
131	48.6	38.6	57.8
130	2.7	2.0	3.0
166	33.8	26.9	40.3

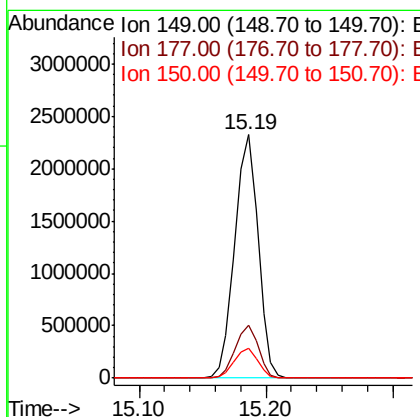
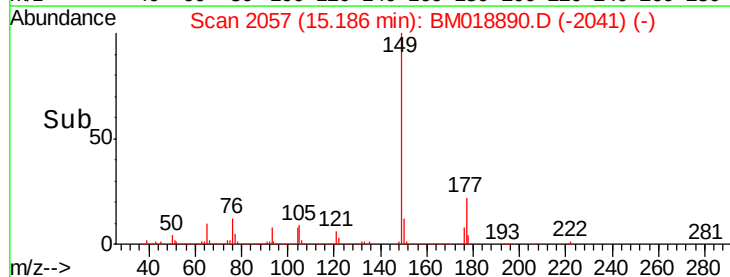
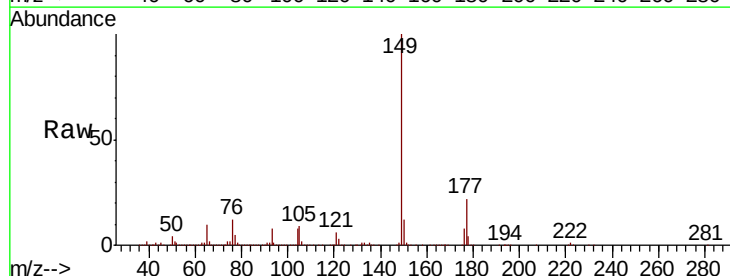
Manual Integrations
APPROVED

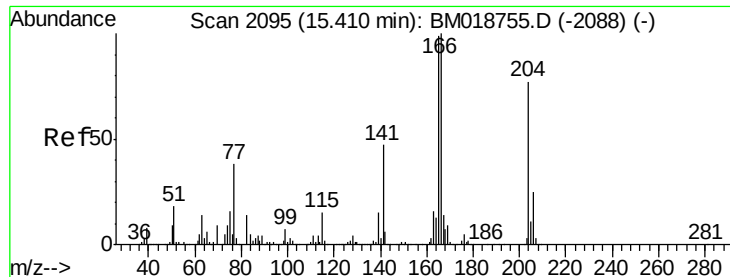
Sohil
2/21/2019 10:09:01 AM



#60
Diethylphthalate
Concen: 45.492 ng
RT: 15.19 min Scan# 2057
Delta R.T. -0.01 min
Lab File: BM018890.D
Acq: 20 Feb 2019 19:05

Tgt Ion	Ratio	Lower	Upper
149	100		
177	21.7	17.2	25.8
150	12.3	10.2	15.2





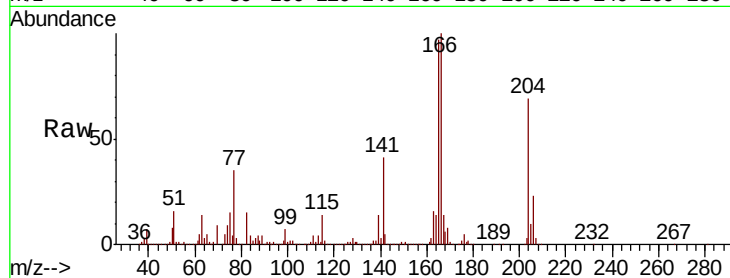
#61
4-Chlorophenyl-phenylether
Concen: 43.124 ng
RT: 15.40 min Scan# 2093
Delta R.T. -0.01 min
Lab File: BM018890.D
Acq: 20 Feb 2019 19:05

Instrument :
BNA_M
ClientSampled :
SOIL-PILEMSD

Tot Ion	Ratio	Lower	Upper
204	100		
206	32.8	26.2	39.2
141	59.4	49.2	73.8

Manual Integrations
APPROVED

Sohil
2/21/2019 10:09:01 AM

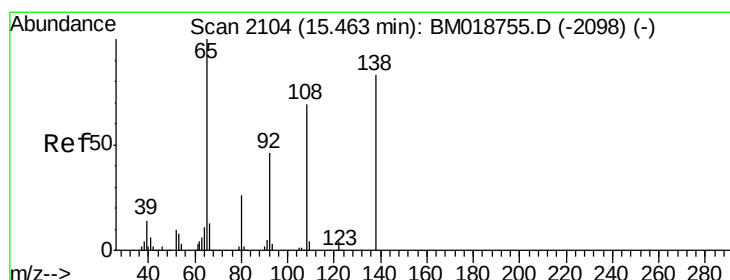
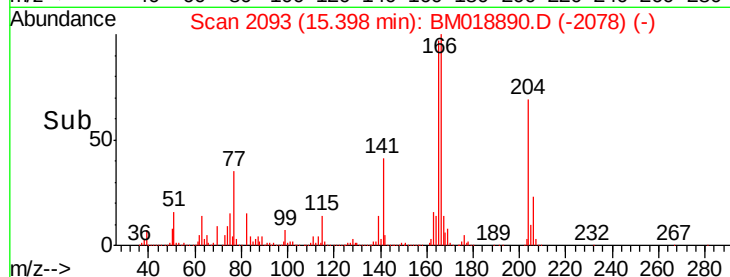
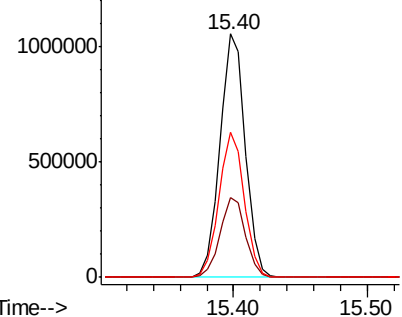


Abundance

Ion 204.00 (203.70 to 204.70): E

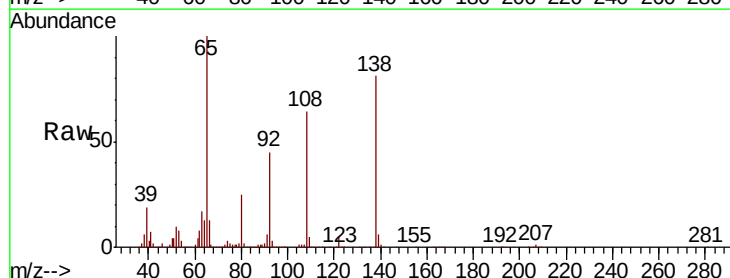
Ion 206.00 (205.70 to 206.70): E

Ion 141.00 (140.70 to 141.70): E



#62
4-Nitroaniline
Concen: 41.367 ng
RT: 15.46 min Scan# 2103
Delta R.T. -0.01 min
Lab File: BM018890.D
Acq: 20 Feb 2019 19:05

Tgt Ion	Ratio	Lower	Upper
138	100		
92	55.4	35.5	75.5
108	79.0	62.4	102.4

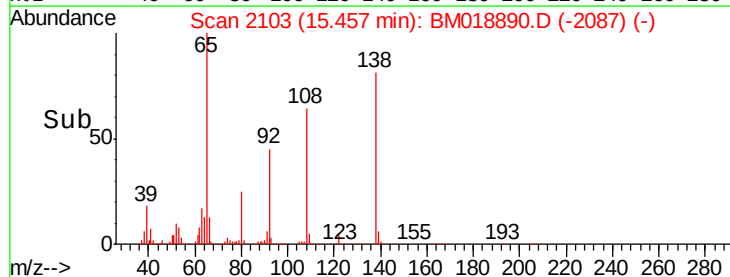
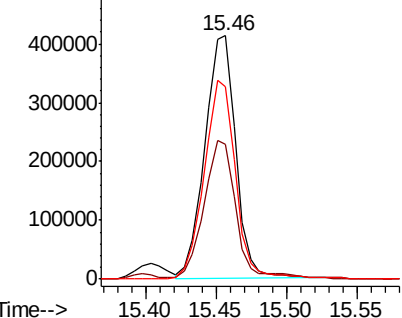


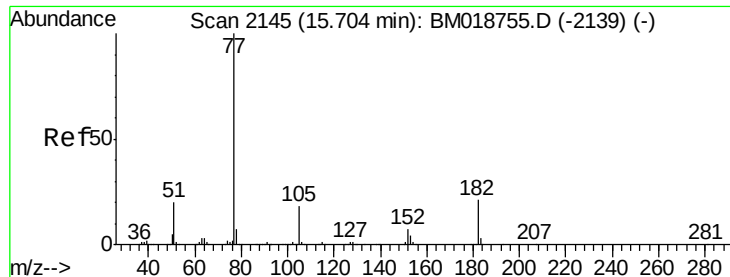
Abundance

Ion 138.00 (137.70 to 138.70): E

Ion 92.00 (91.70 to 92.70): BM

Ion 108.00 (107.70 to 108.70): E





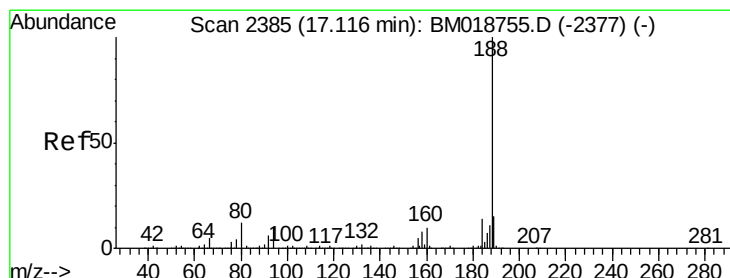
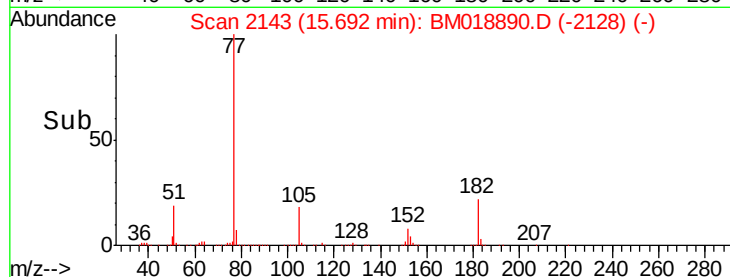
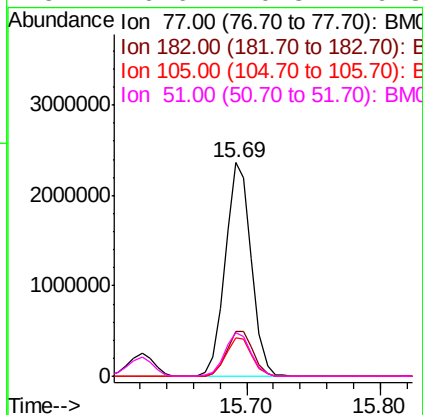
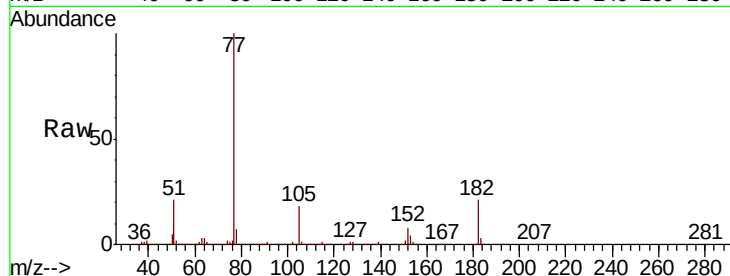
#63
Azobenzene
Concen: 45.959 ng
RT: 15.69 min Scan# 2143
Delta R.T. -0.01 min
Lab File: BM018890.D
Acq: 20 Feb 2019 19:05

Instrument :
BNA_M
ClientSampleId :
SOIL-PILEMSD

Tot Ion	Ion	Ratio	Lower	Upper
77	100			
182	21.2	1.0	41.0	
105	18.0	0.0	37.7	
51	20.6	0.3	40.3	

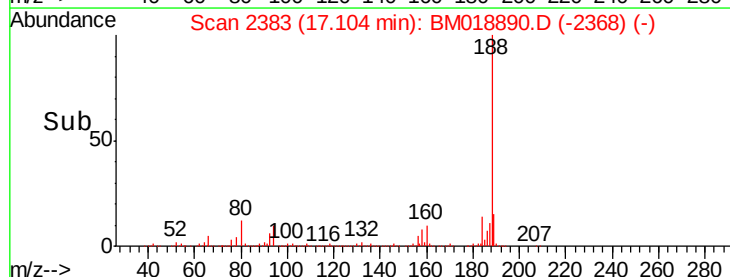
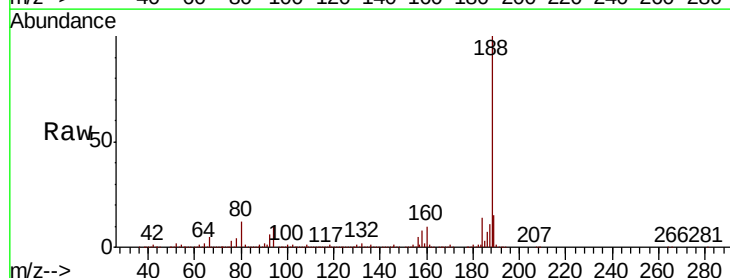
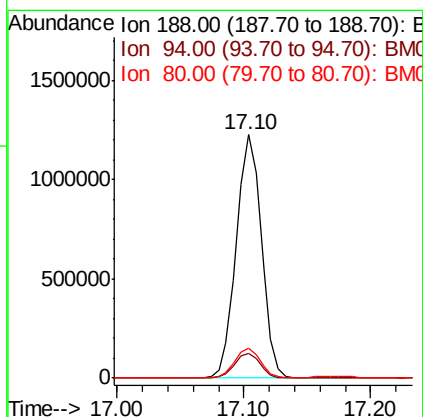
Manual Integrations
APPROVED

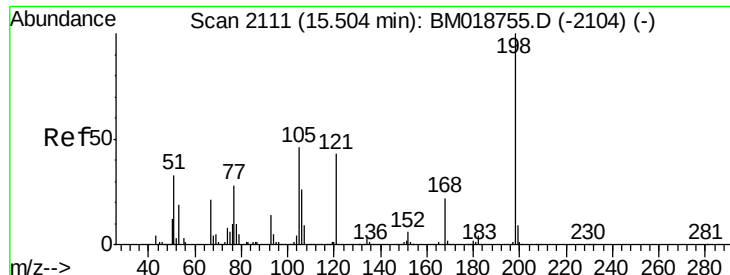
Sohil
2/21/2019 10:09:01 AM



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.10 min Scan# 2383
Delta R.T. -0.01 min
Lab File: BM018890.D
Acq: 20 Feb 2019 19:05

Tgt Ion	Ion	Ratio	Lower	Upper
188	100			
94	9.9	8.2	12.2	
80	12.5	9.7	14.5	





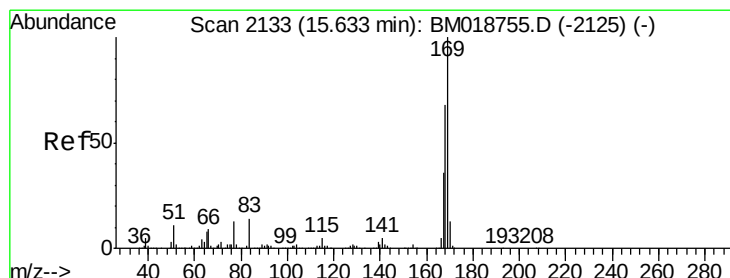
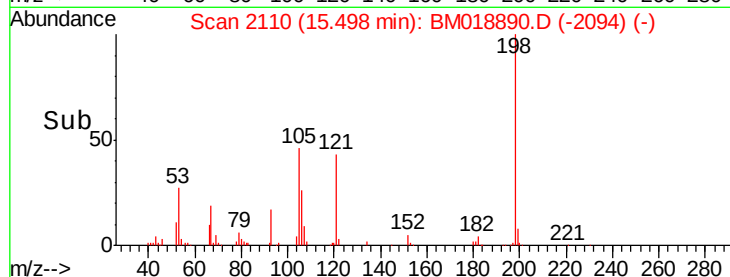
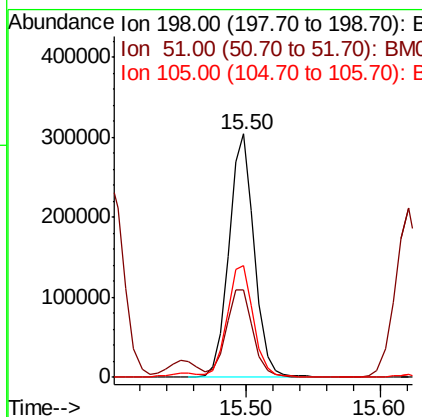
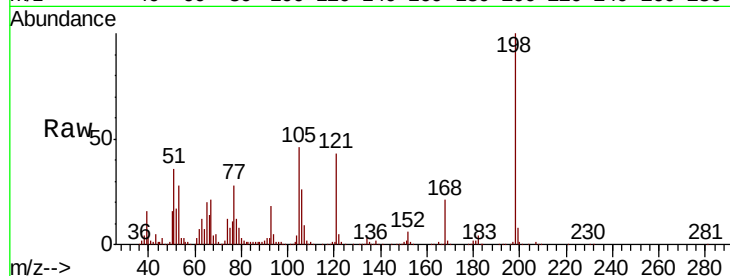
#65
4,6-Dinitro-2-methylphenol
Concen: 34.067 ng
RT: 15.50 min Scan# 2110
Delta R.T. -0.01 min
Lab File: BM018890.D
Acq: 20 Feb 2019 19:05

Instrument :
BNA_M
ClientSampleId :
SOIL-PILEMSD

Tot Ion	Ratio	Resp	Lower	Upper
198	100	402576		
51	36.2		18.4	58.4
105	45.9		27.2	67.2

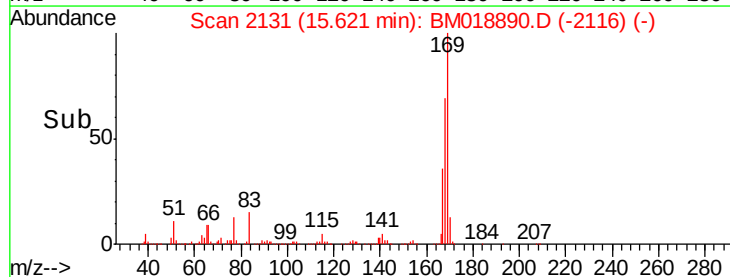
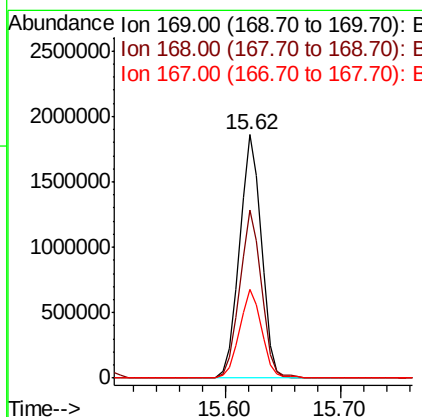
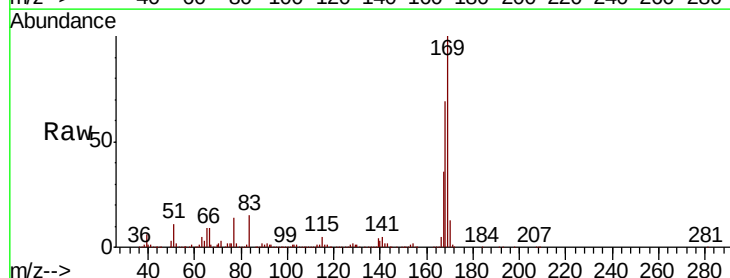
Manual Integrations
APPROVED

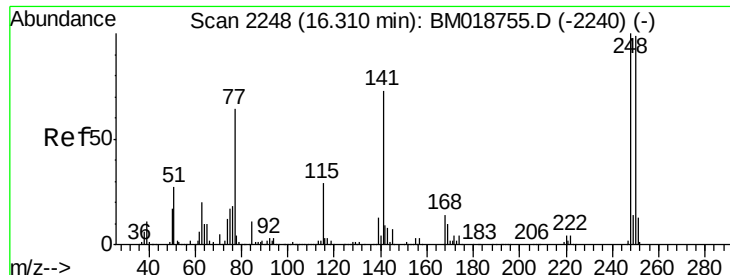
Sohil
2/21/2019 10:09:01 AM



#66
n-Nitrosodiphenylamine
Concen: 45.721 ng
RT: 15.62 min Scan# 2131
Delta R.T. -0.01 min
Lab File: BM018890.D
Acq: 20 Feb 2019 19:05

Tgt Ion	Ratio	Resp	Lower	Upper
169	100	2431244		
168	69.1		54.4	81.6
167	36.3		29.0	43.6





#67

4-Bromophenyl-phenylether

Concen: 44.351 ng

RT: 16.30 min Scan# 2246

Delta R.T. -0.01 min

Lab File: BM018890.D

Acq: 20 Feb 2019 19:05

Instrument :

BNA_M

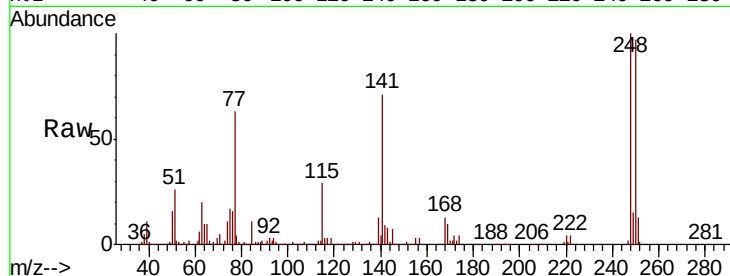
ClientSampleId :

SOIL-PILEMSD

Tot Ion:	248	Resp:	835541
Ion Ratio	Lower	Upper	
248	100		
250	96.5	79.0	118.6
141	70.9	58.6	88.0

Manual Integrations
APPROVED

Sohil
2/21/2019 10:09:01 AM

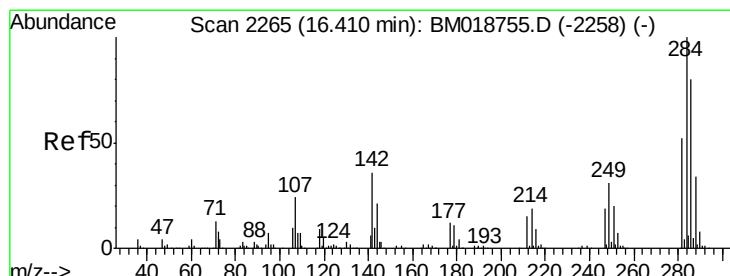
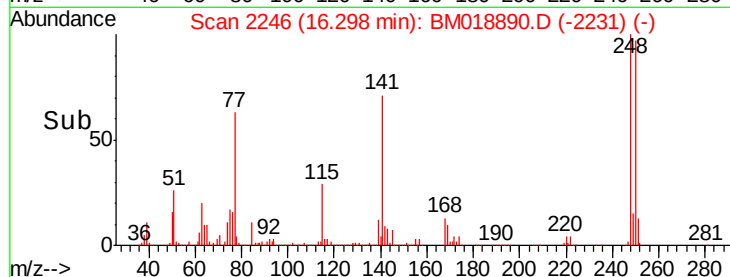
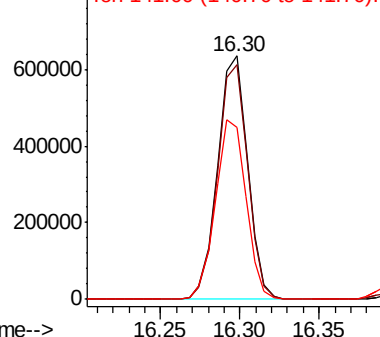


Abundance

Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E



#68

Hexachlorobenzene

Concen: 44.147 ng

RT: 16.40 min Scan# 2263

Delta R.T. -0.01 min

Lab File: BM018890.D

Acq: 20 Feb 2019 19:05

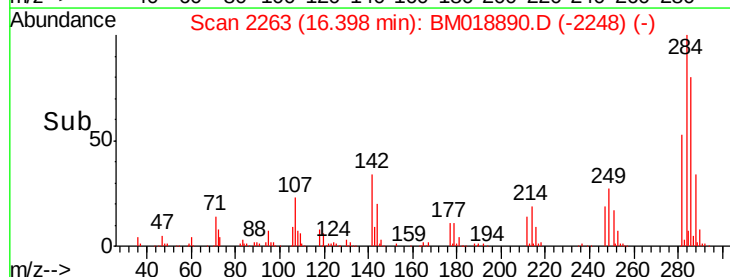
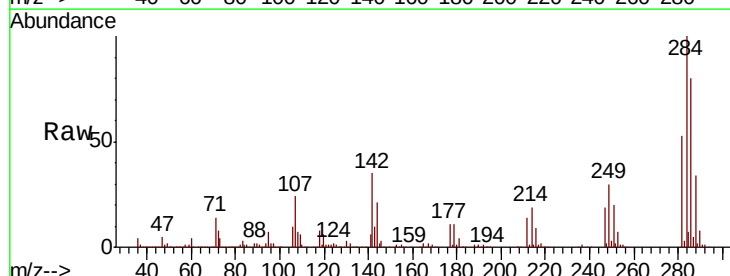
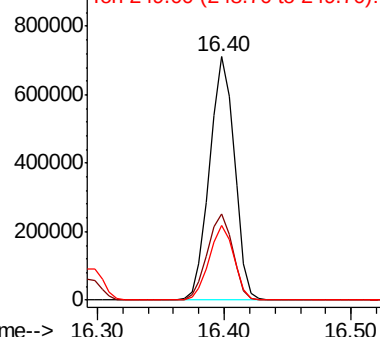
Tgt Ion:	284	Resp:	966740
Ion Ratio	Lower	Upper	
284	100		
142	35.4	28.9	43.3
249	30.4	24.8	37.2

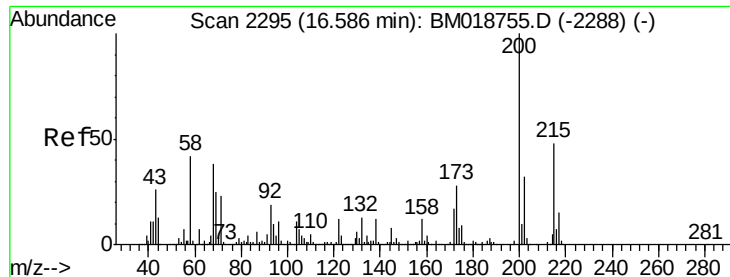
Abundance

Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E





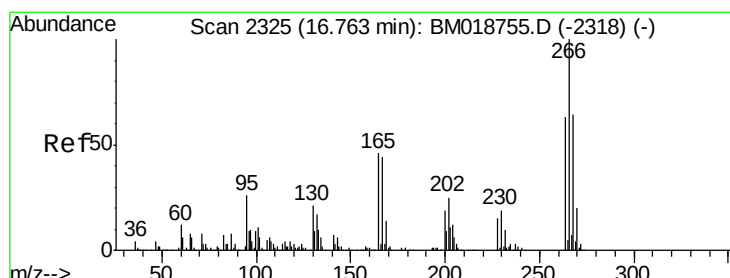
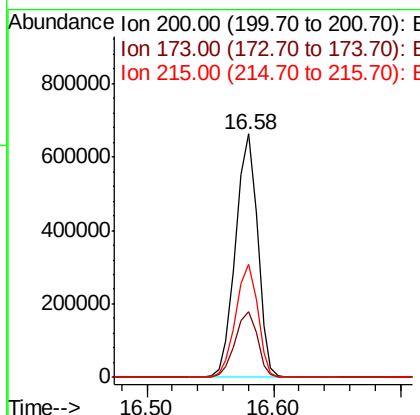
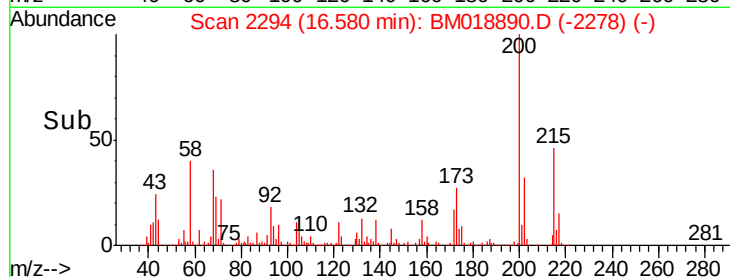
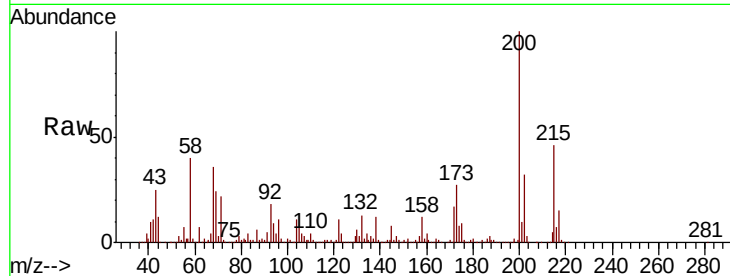
#69
Atrazine
Concen: 46.453 ng
RT: 16.58 min Scan# 2294
Delta R.T. -0.01 min
Lab File: BM018890.D
Acq: 20 Feb 2019 19:05

Instrument :
BNA_M
ClientSampleId :
SOIL-PILEMSD

Tot Ion	Ratio	Lower	Upper
200	100		
173	27.2	7.6	47.6
215	46.3	27.6	67.6

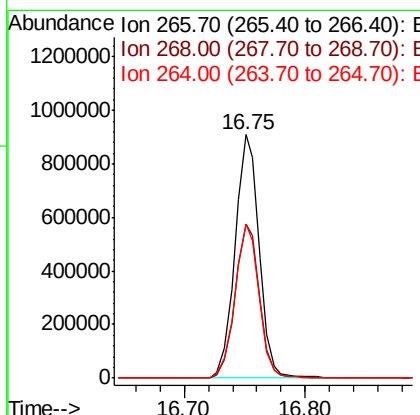
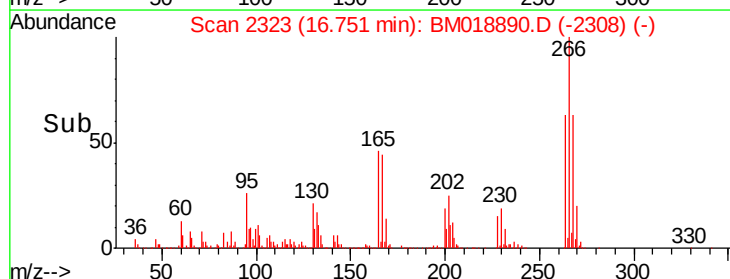
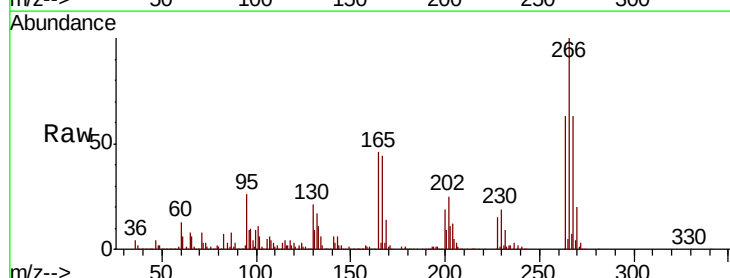
Manual Integrations
APPROVED

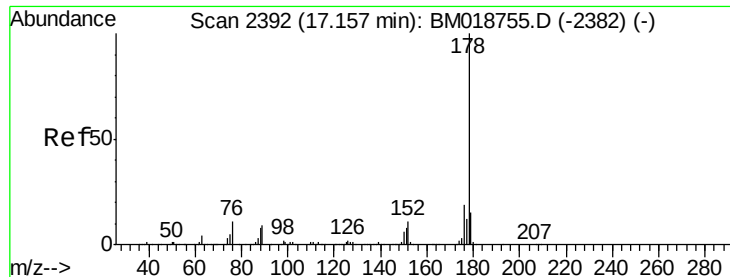
Sohil
2/21/2019 10:09:01 AM



#70
Pentachlorophenol
Concen: 89.726 ng
RT: 16.75 min Scan# 2323
Delta R.T. -0.01 min
Lab File: BM018890.D
Acq: 20 Feb 2019 19:05

Tgt Ion	Ratio	Lower	Upper
266	100		
268	63.4	51.3	76.9
264	63.1	50.6	75.8





#71

Phenanthrene

Concen: 48.660 ng

RT: 17.14 min Scan# 2390

Delta R.T. -0.01 min

Lab File: BM018890.D

Acq: 20 Feb 2019 19:05

Instrument :

BNA_M

ClientSampleId :

SOIL-PILEMSD

Tot Ion:178 Resp: 4401440

Ion Ratio Lower Upper

178 100

176 19.4 15.4 23.0

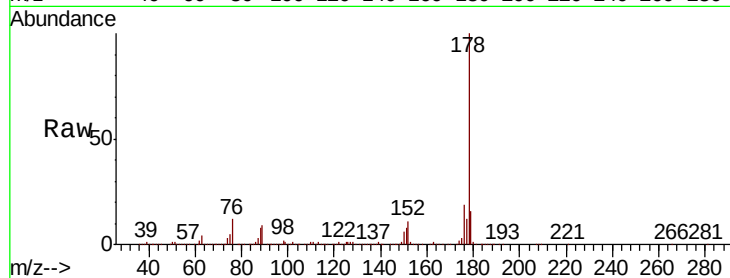
179 15.5 12.3 18.5

Manual Integrations

APPROVED

Sohil

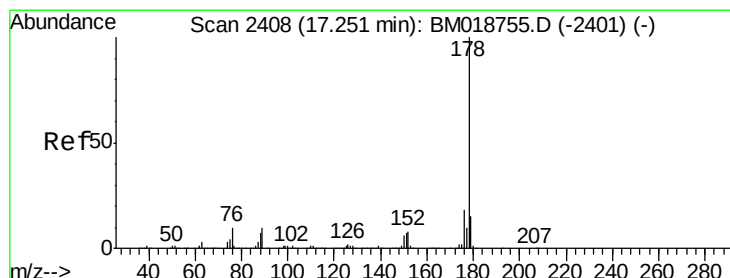
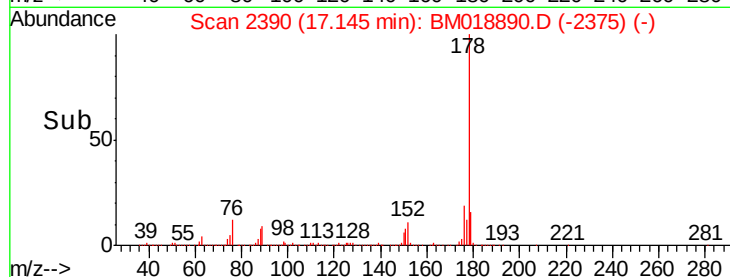
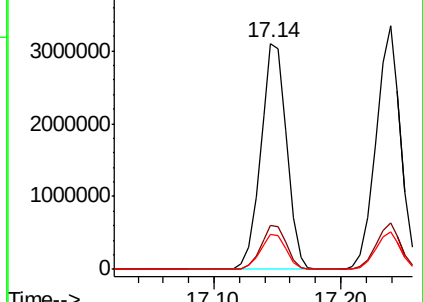
2/21/2019 10:09:01 AM



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: 50.873 ng

RT: 17.24 min Scan# 2406

Delta R.T. -0.01 min

Lab File: BM018890.D

Acq: 20 Feb 2019 19:05

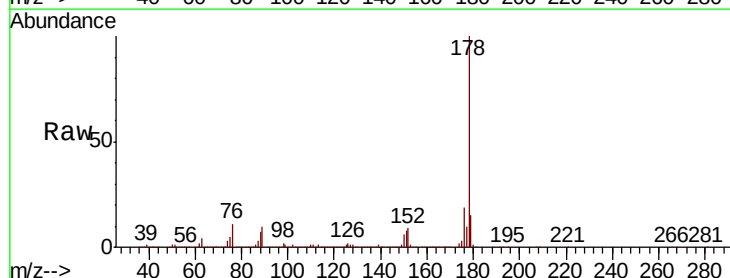
Tgt Ion:178 Resp: 4478841

Ion Ratio Lower Upper

178 100

176 19.1 14.8 22.2

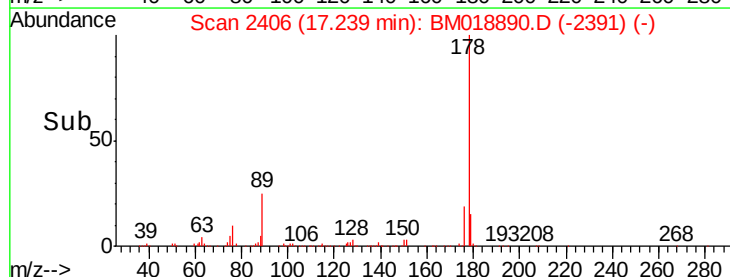
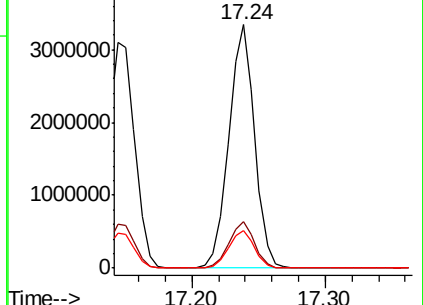
179 15.4 12.1 18.1

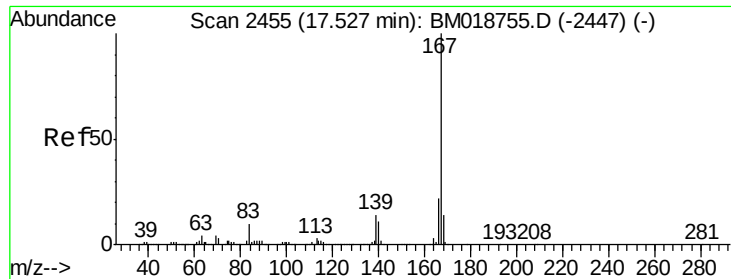


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





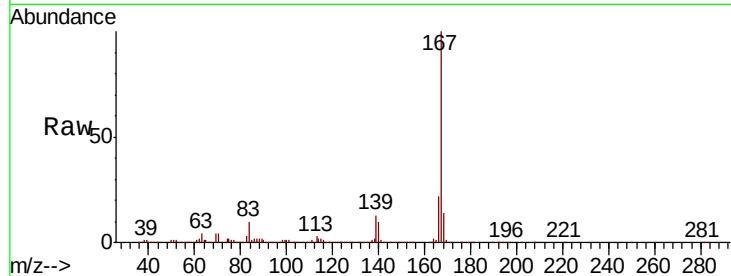
#73
 Carbazole
 Concen: 44.223 ng
 RT: 17.52 min Scan# 2453
 Delta R.T. -0.01 min
 Lab File: BM018890.D
 Acq: 20 Feb 2019 19:05

Instrument :
 BNA_M
 ClientSampleId :
 SOIL-PILEMSD

Tot Ion	Ratio	Lower	Upper
167	100		
166	21.8	17.7	26.5
139	13.2	10.9	16.3

Manual Integrations
 APPROVED

Sohil
 2/21/2019 10:09:01 AM

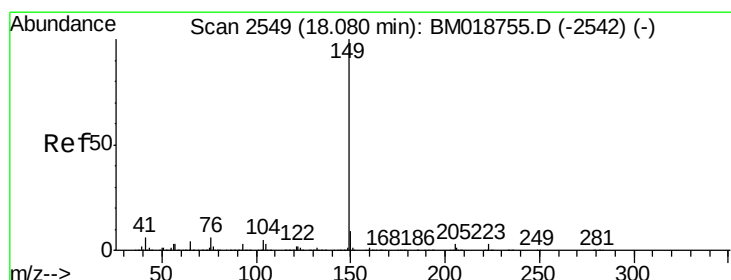
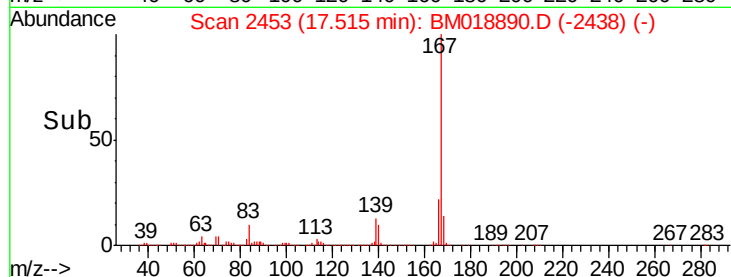
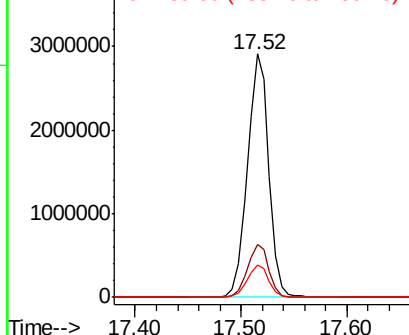


Abundance

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
 Di-n-butylphthalate
 Concen: 49.249 ng
 RT: 18.07 min Scan# 2547
 Delta R.T. -0.01 min
 Lab File: BM018890.D
 Acq: 20 Feb 2019 19:05

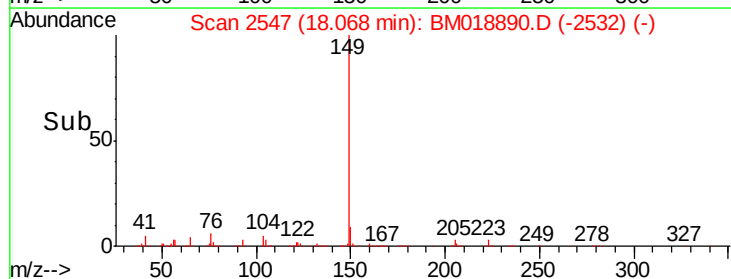
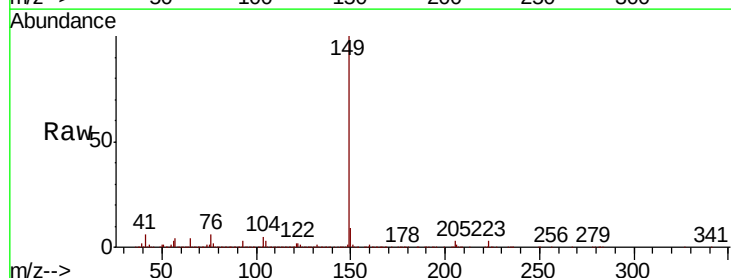
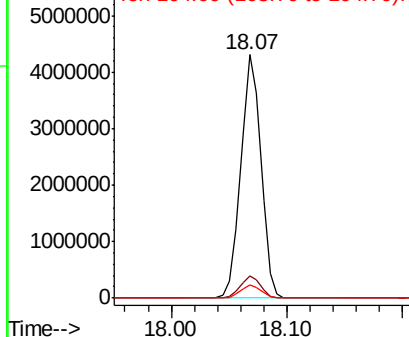
Tgt Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.4	11.0
104	5.4	4.3	6.5

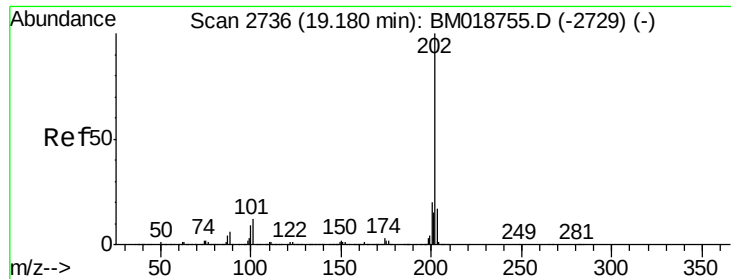
Abundance

Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E





#75

Fluoranthene

Concen: 49.163 ng

RT: 19.17 min Scan# 2734

Delta R.T. -0.01 min

Lab File: BM018890.D

Acq: 20 Feb 2019 19:05

Instrument :

BNA_M

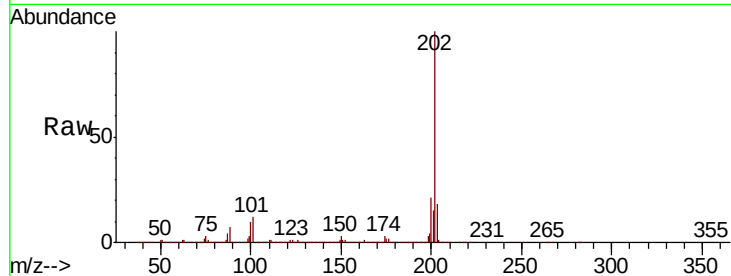
ClientSampleId :

SOIL-PILEMSD

Tot Ion:	202	Resp:	5136755
Ion	Ratio	Lower	Upper
202	100		
101	12.3	0.0	31.5
203	17.5	0.0	37.3

Manual Integrations
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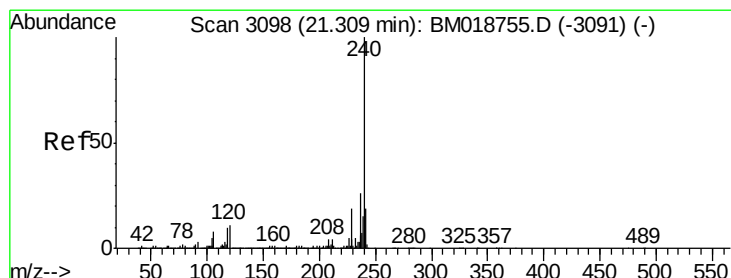
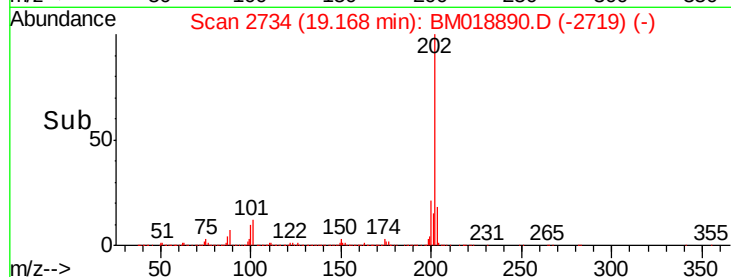
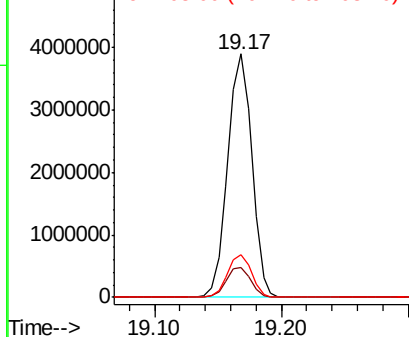


Abundance

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: 21.30 min Scan# 3096

Delta R.T. -0.01 min

Lab File: BM018890.D

Acq: 20 Feb 2019 19:05

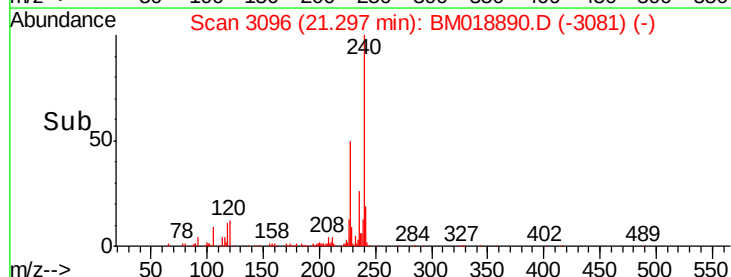
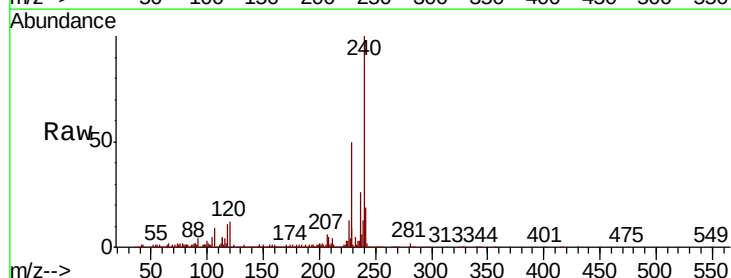
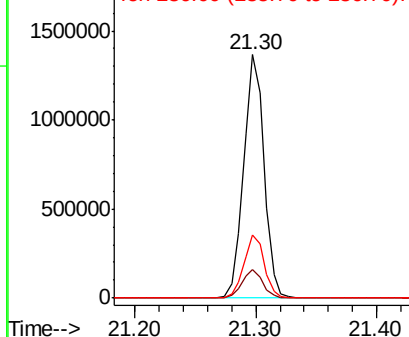
Tgt Ion:	240	Resp:	1617315
Ion	Ratio	Lower	Upper
240	100		
120	11.9	8.9	13.3
236	26.1	20.9	31.3

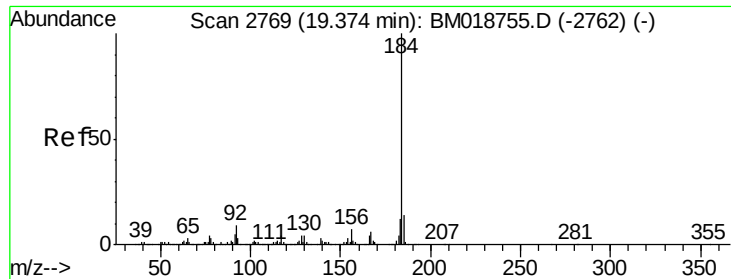
Abundance

Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Benzidine

Concen: 74.947 ng

RT: 19.37 min Scan# 2768

Delta R.T. -0.01 min

Lab File: BM018890.D

Acq: 20 Feb 2019 19:05

Instrument :

BNA_M

ClientSampled :

SOIL-PILEMSD

Tot Ion:184 Resp: 2729874

Ion Ratio Lower Upper

184 100

185 13.8 11.2 16.8

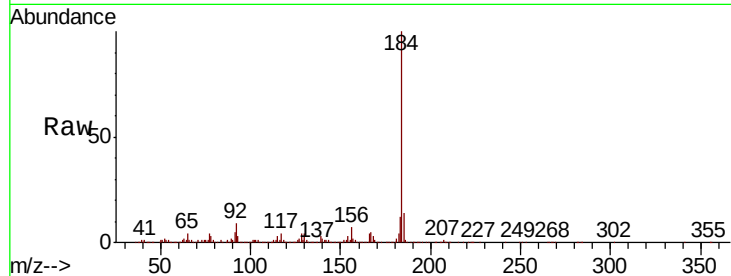
183 12.2 9.7 14.5

Manual Integrations

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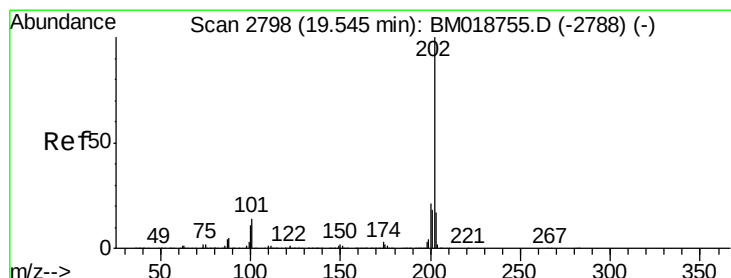
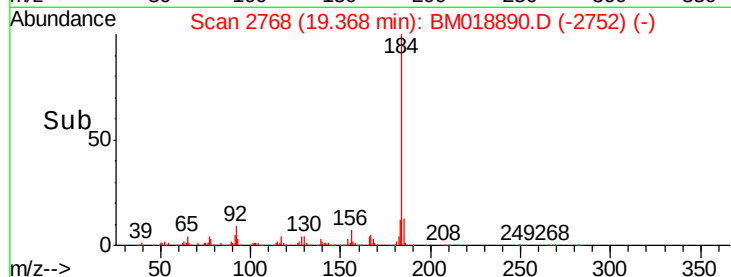
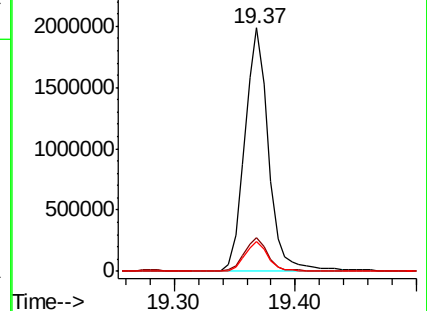
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Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#78

Pyrene

Concen: 55.277 ng

RT: 19.53 min Scan# 2796

Delta R.T. -0.01 min

Lab File: BM018890.D

Acq: 20 Feb 2019 19:05

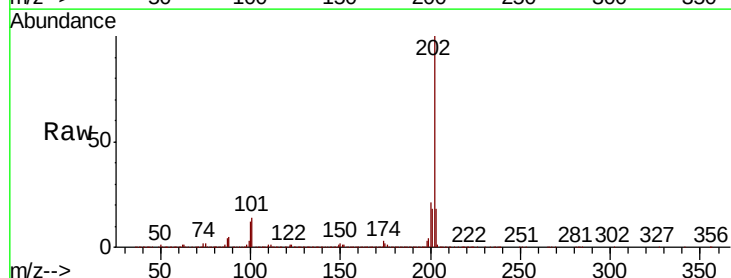
Tgt Ion:202 Resp: 5192289

Ion Ratio Lower Upper

202 100

200 21.2 16.9 25.3

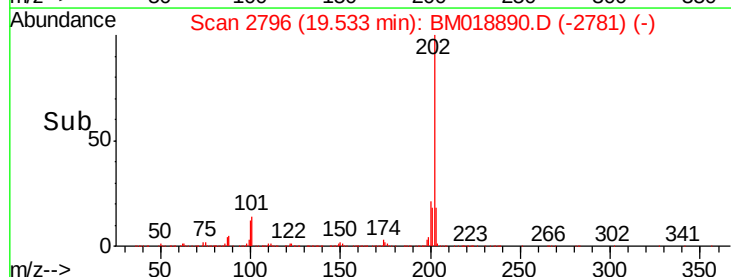
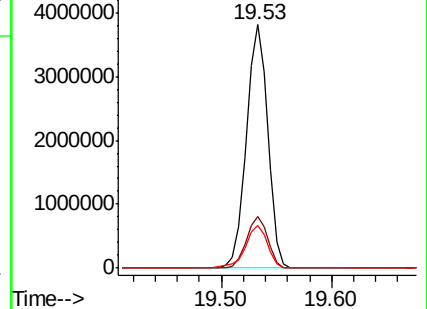
203 17.7 13.8 20.8

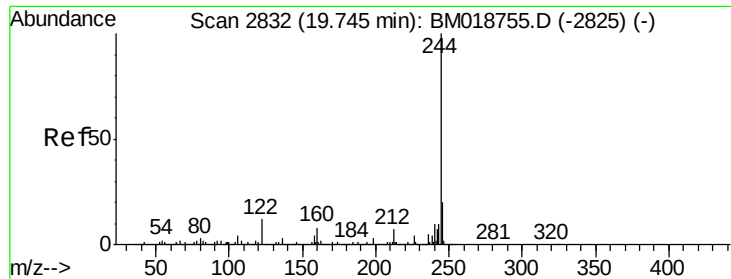


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#79

Terphenyl-d14

Concen: 91.314 ng

RT: 19.74 min Scan# 2831

Delta R.T. -0.01 min

Lab File: BM018890.D

Acq: 20 Feb 2019 19:05

Instrument :

BNA_M

ClientSampleId :

SOIL-PILEMSD

Tot Ion:244 Resp: 7159050

Ion Ratio Lower Upper

244 100

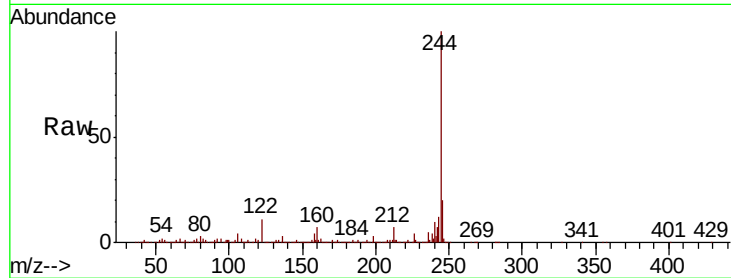
212 7.0 5.6 8.4

122 11.1 9.3 13.9

Manual Integrations
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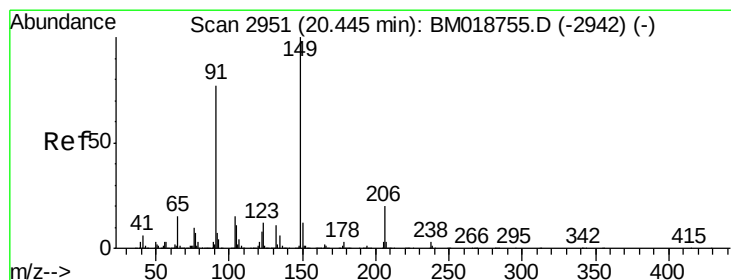
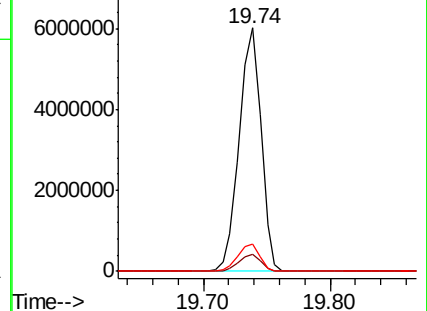
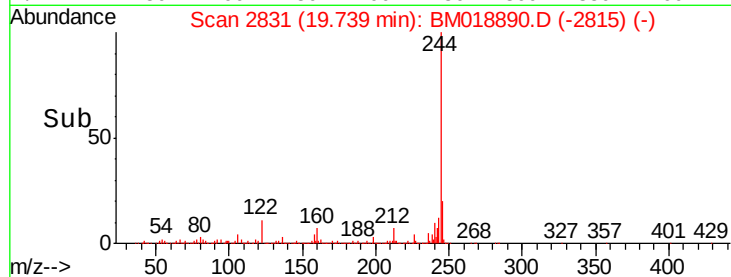
2/21/2019 10:09:01 AM



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#80

Butylbenzylphthalate

Concen: 58.778 ng

RT: 20.43 min Scan# 2949

Delta R.T. -0.01 min

Lab File: BM018890.D

Acq: 20 Feb 2019 19:05

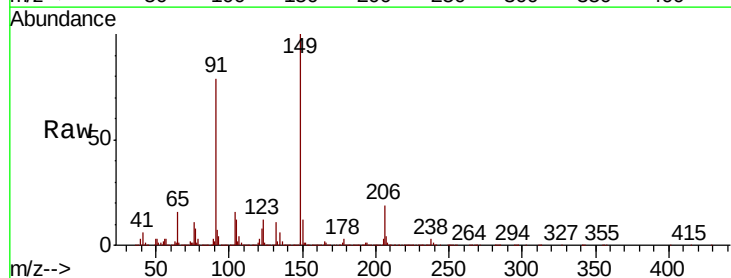
Tgt Ion:149 Resp: 2516197

Ion Ratio Lower Upper

149 100

91 79.4 61.4 92.0

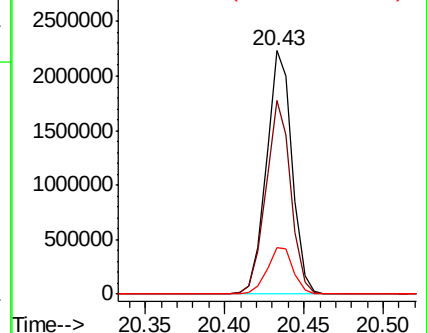
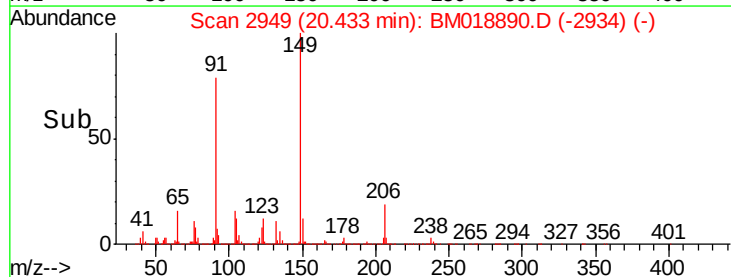
206 19.2 15.8 23.8

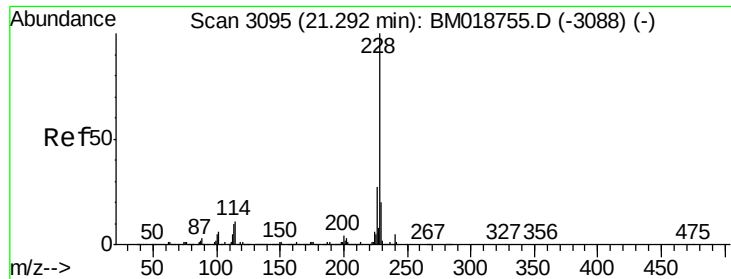


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 91.00 (90.70 to 91.70): BM0

Ion 206.00 (205.70 to 206.70): E





#81

Benzo(a)anthracene

Concen: 49.764 ng

RT: 21.28 min Scan# 3093

Delta R.T. -0.01 min

Lab File: BM018890.D

Acq: 20 Feb 2019 19:05

Instrument :

BNA_M

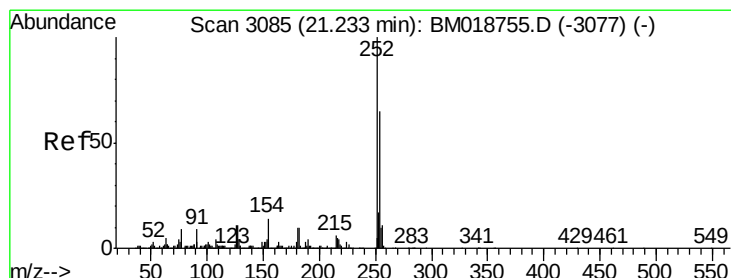
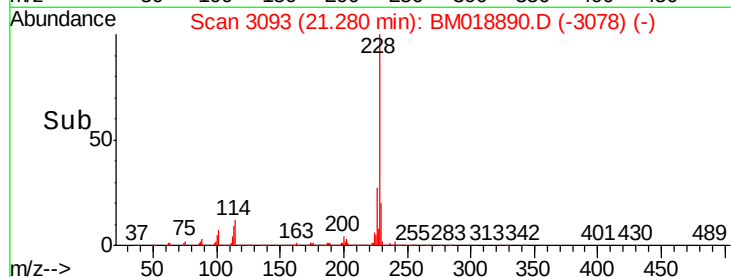
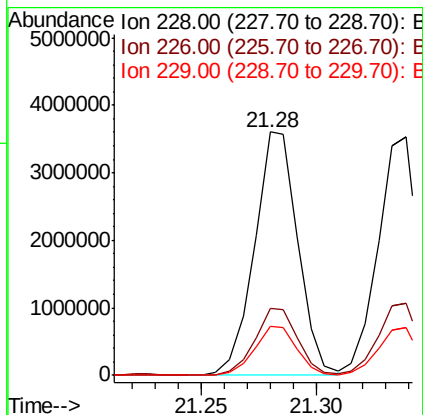
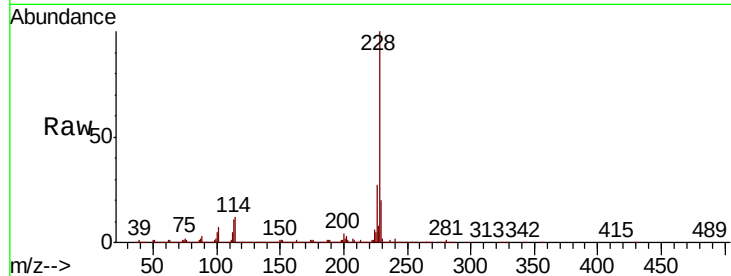
ClientSampleId :

SOIL-PILEMSD

Tot Ion:	228	Resp:	4691597
Ion	Ratio	Lower	Upper
228	100		
226	27.4	21.9	32.9
229	20.1	15.9	23.9

Manual Integrations
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#82

3,3'-Dichlorobenzidine

Concen: 39.284 ng

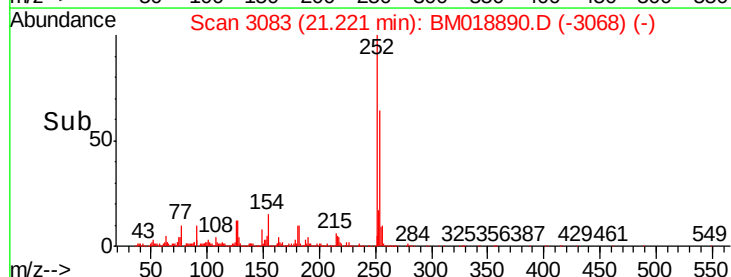
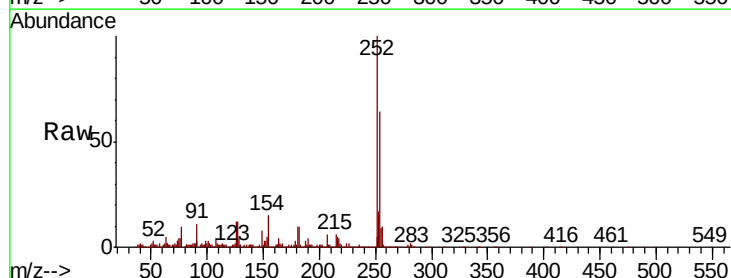
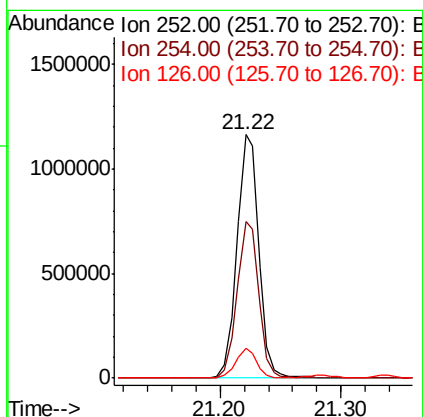
RT: 21.22 min Scan# 3083

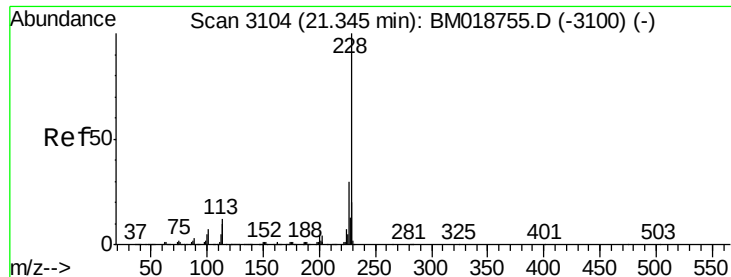
Delta R.T. -0.01 min

Lab File: BM018890.D

Acq: 20 Feb 2019 19:05

Tgt Ion:	252	Resp:	1463717
Ion	Ratio	Lower	Upper
252	100		
254	64.3	51.8	77.8
126	12.4	9.1	13.7





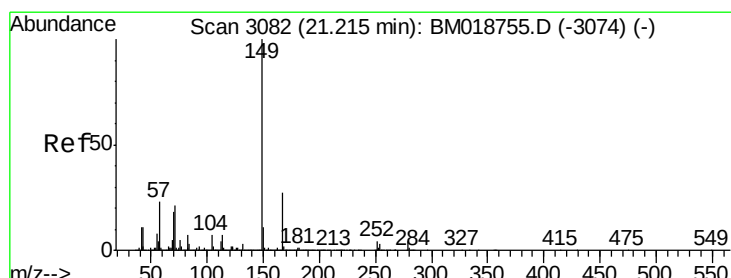
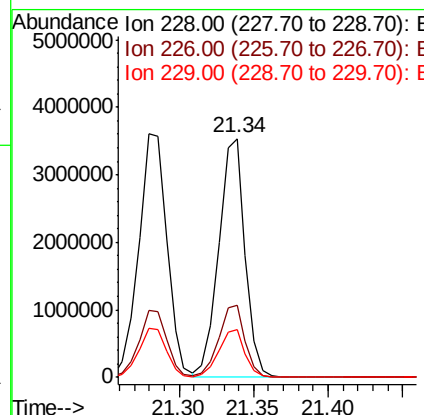
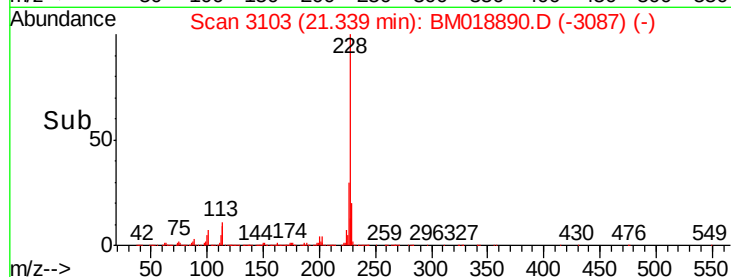
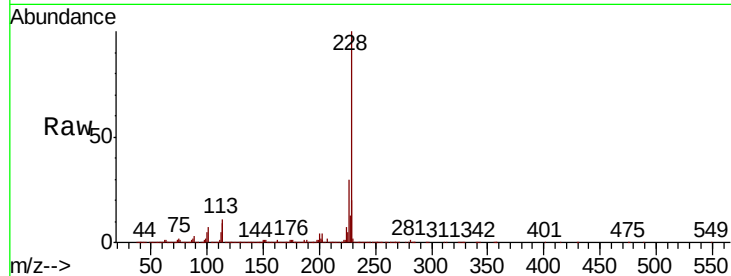
#83
Chrysene
Concen: 48.201 ng
RT: 21.34 min Scan# 3103
Delta R.T. -0.01 min
Lab File: BM018890.D
Acq: 20 Feb 2019 19:05

Instrument :
BNA_M
ClientSampleId :
SOIL-PILEMSD

Tot Ion:228 Resp: 4355532
Ion Ratio Lower Upper
228 100
226 30.0 24.1 36.1
229 19.9 16.0 24.0

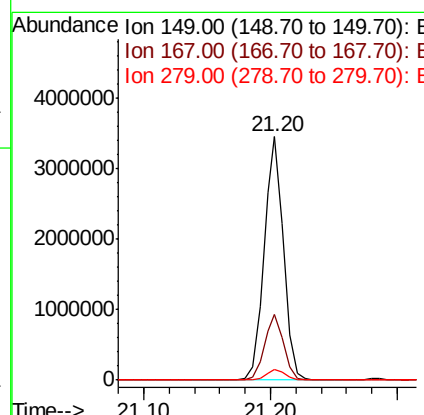
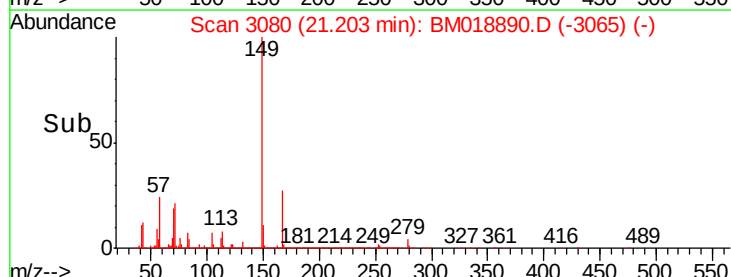
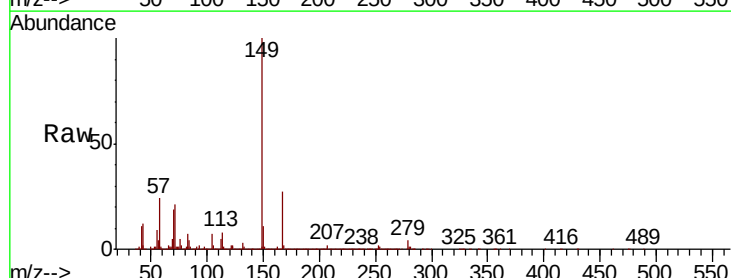
Manual Integrations
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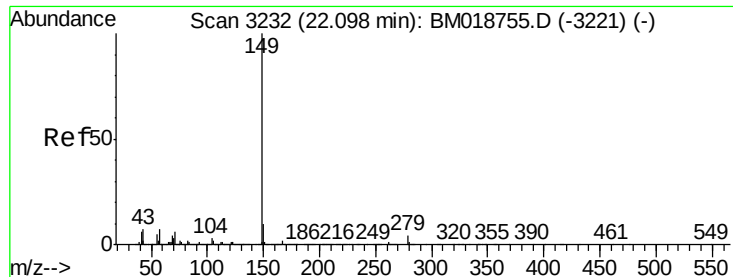
Sohil
2/21/2019 10:09:01 AM



#84
Bis(2-ethylhexyl)phthalate
Concen: 58.124 ng
RT: 21.20 min Scan# 3080
Delta R.T. -0.01 min
Lab File: BM018890.D
Acq: 20 Feb 2019 19:05

Tgt Ion:149 Resp: 3641732
Ion Ratio Lower Upper
149 100
167 26.9 21.8 32.6
279 4.4 3.6 5.4





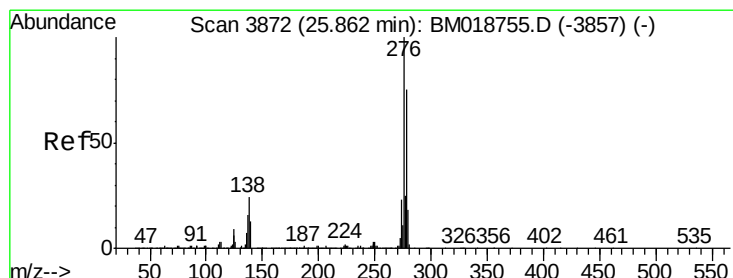
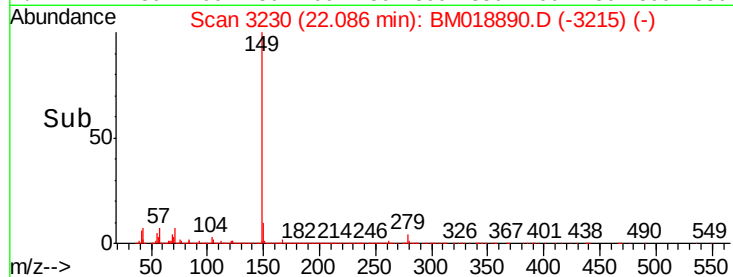
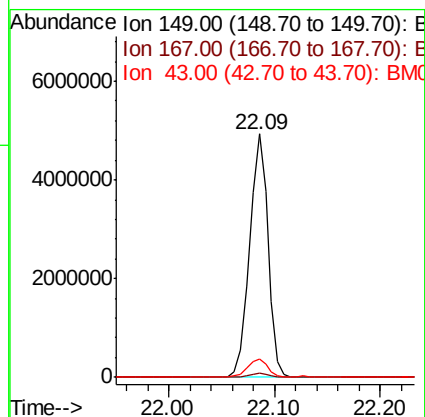
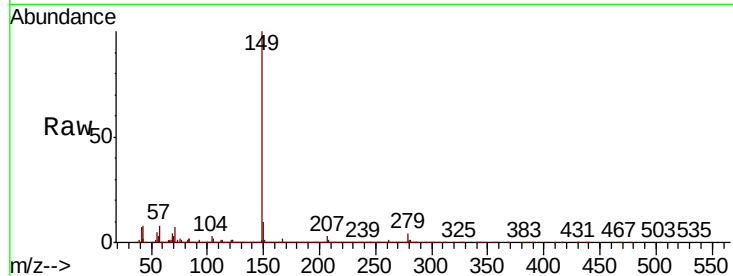
#85
Di-n-octyl phthalate
Concen: 56.689 ng
RT: 22.09 min Scan# 3230
Delta R.T. -0.01 min
Lab File: BM018890.D
Acq: 20 Feb 2019 19:05

Instrument :
BNA_M
ClientSampleId :
SOIL-PILEMSD

Tot Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	8.0	6.0	9.0

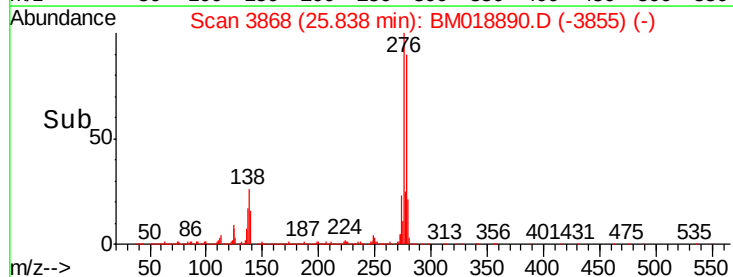
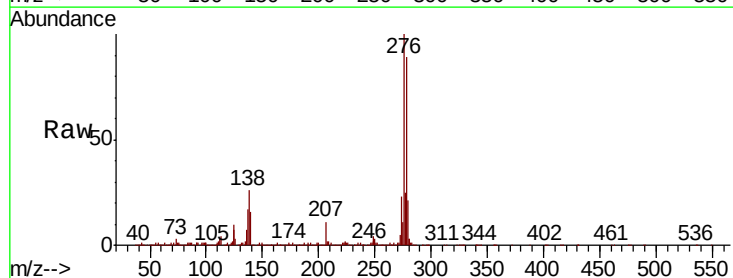
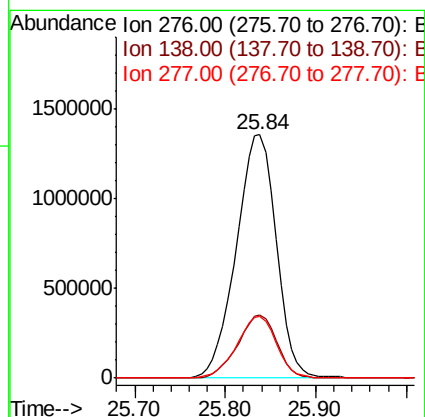
Manual Integrations
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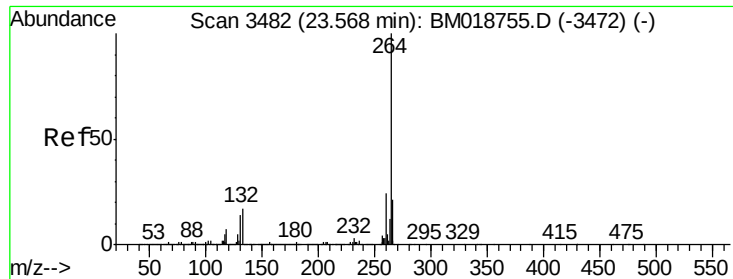
Sohil
2/21/2019 10:09:01 AM



#86
Indeno(1,2,3-cd)pyrene
Concen: 39.631 ng
RT: 25.84 min Scan# 3868
Delta R.T. -0.02 min
Lab File: BM018890.D
Acq: 20 Feb 2019 19:05

Tgt Ion	Ratio	Lower	Upper
276	100		
138	25.5	20.2	30.4
277	25.2	20.3	30.5





#87

Pervlene-d12

Concen: 20.000 ng

RT: 23.55 min Scan# 3479

Delta R.T. -0.02 min

Lab File: BM018890.D

Acq: 20 Feb 2019 19:05

Instrument :

BNA_M

ClientSampleId :

SOIL-PILEMSD

Tot Ion:264 Resp: 1365469

Ion Ratio Lower Upper

264 100

260 23.8 18.9 28.3

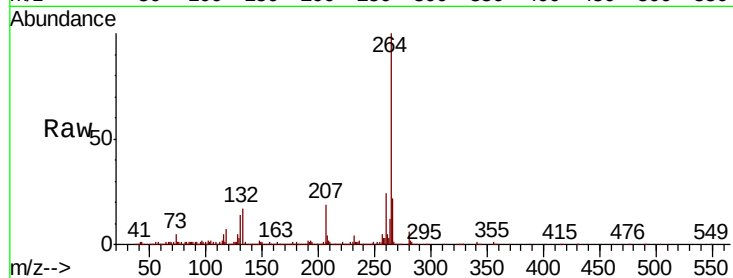
265 21.8 17.3 25.9

Manual Integrations

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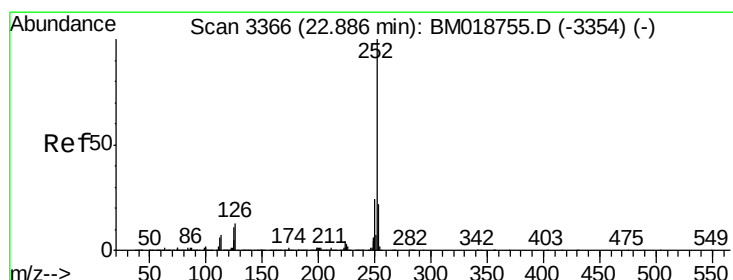
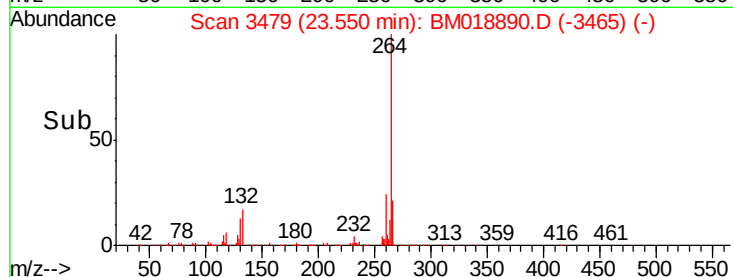
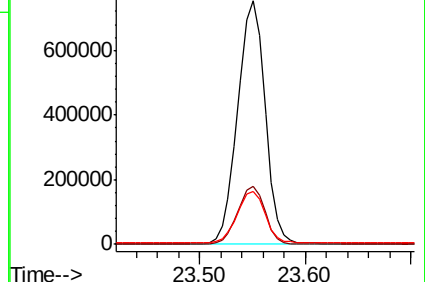
2/21/2019 10:09:01 AM



Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



#88

Benzo(b)fluoranthene

Concen: 51.770 ng

RT: 22.87 min Scan# 3364

Delta R.T. -0.01 min

Lab File: BM018890.D

Acq: 20 Feb 2019 19:05

Tgt Ion:252 Resp: 4044456

Ion Ratio Lower Upper

252 100

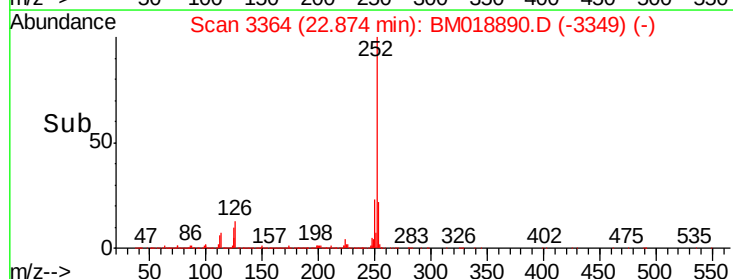
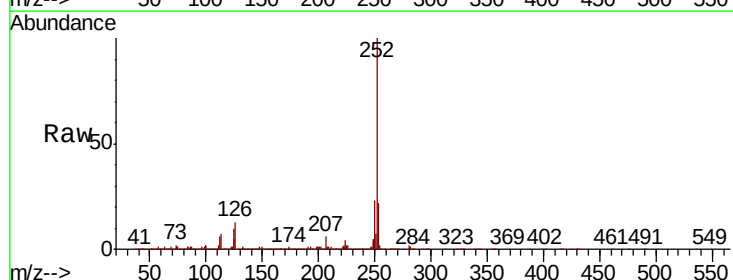
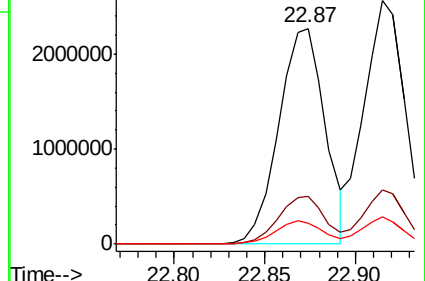
253 22.1 17.8 26.6

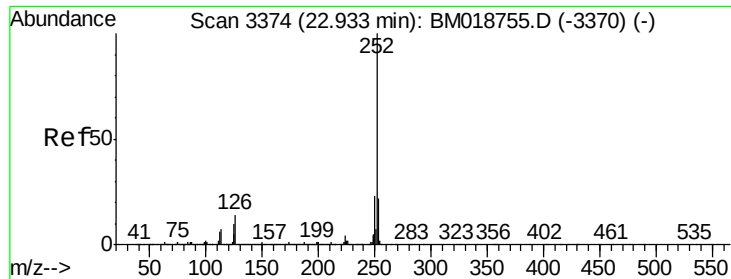
125 9.9 8.6 12.8

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





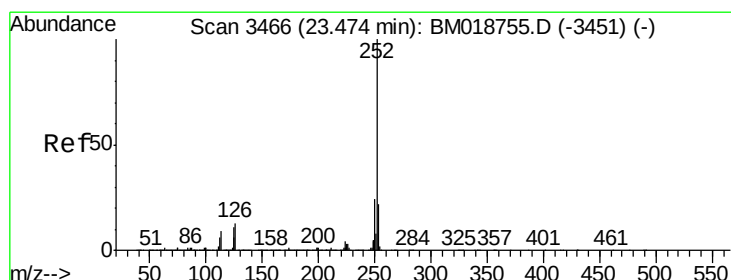
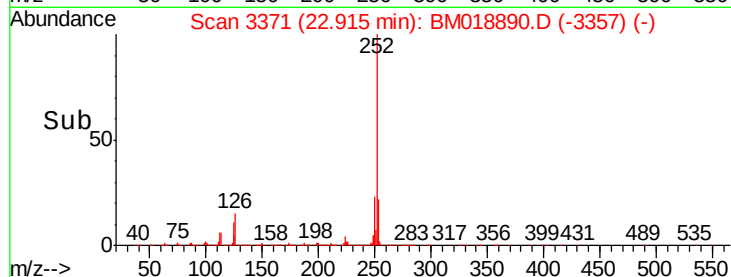
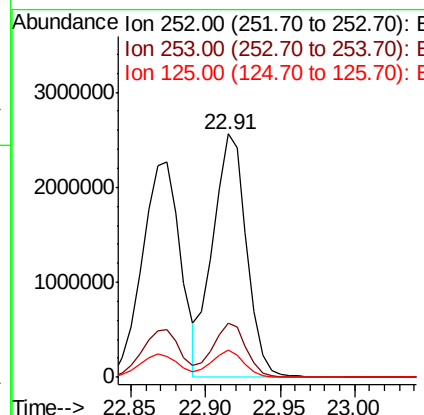
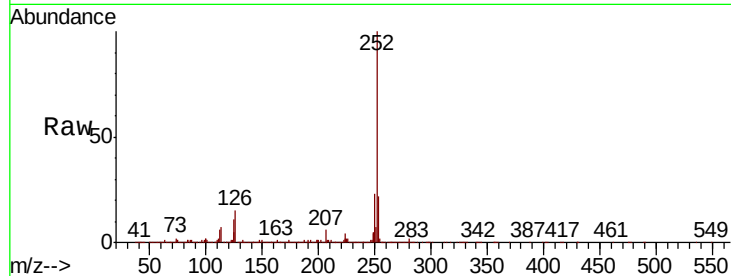
#89
Benzo(k)fluoranthene
Concen: 51.823 ng
RT: 22.91 min Scan# 3371
Delta R.T. -0.02 min
Lab File: BM018890.D
Acq: 20 Feb 2019 19:05

Instrument :
BNA_M
ClientSampleId :
SOIL-PILEMSD

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.7	26.5
125	11.0	8.2	12.4

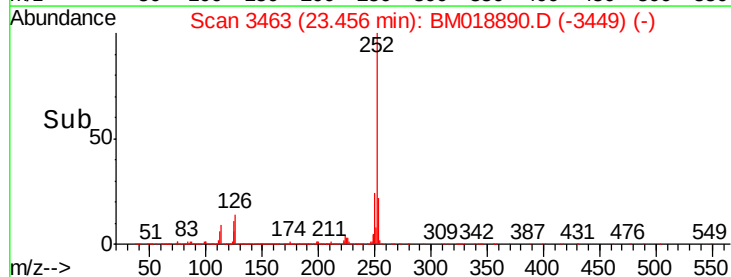
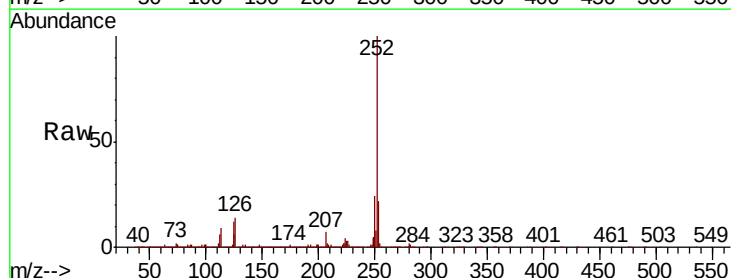
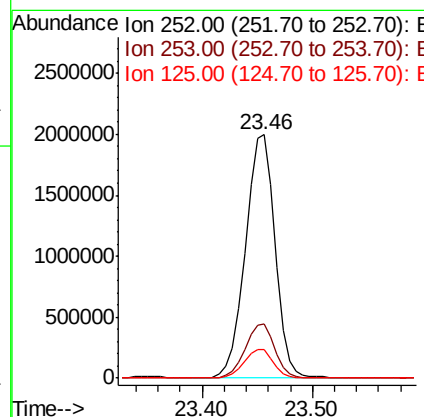
Manual Integrations
APPROVED

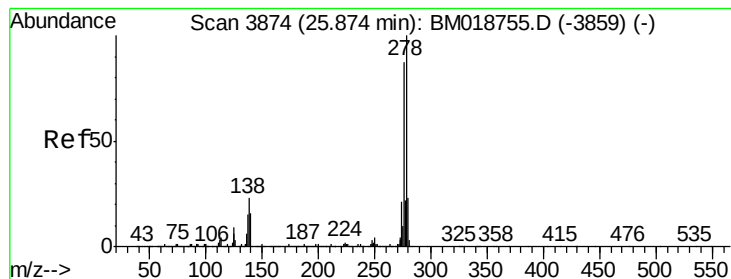
Sohil
2/21/2019 10:09:01 AM



#90
Benzo(a)pyrene
Concen: 50.862 ng
RT: 23.46 min Scan# 3463
Delta R.T. -0.02 min
Lab File: BM018890.D
Acq: 20 Feb 2019 19:05

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.4	26.0
125	11.5	8.6	13.0





#91

Dibenzo(a,h)anthracene

Concen: 48.175 ng

RT: 25.84 min Scan# 3869

Delta R.T. -0.03 min

Lab File: BM018890.D

Acq: 20 Feb 2019 19:05

Instrument :

BNA_M

ClientSampleId :

SOIL-PILEMSD

Tot Ion:278 Resp: 3532369

Ion Ratio Lower Upper

278 100

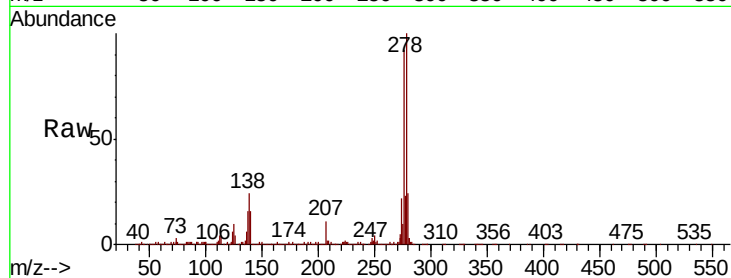
139 16.4 12.6 18.8

279 23.9 18.6 28.0

Manual Integrations
APPROVED

Sohil

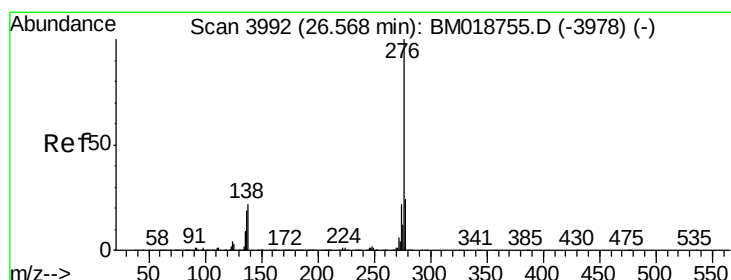
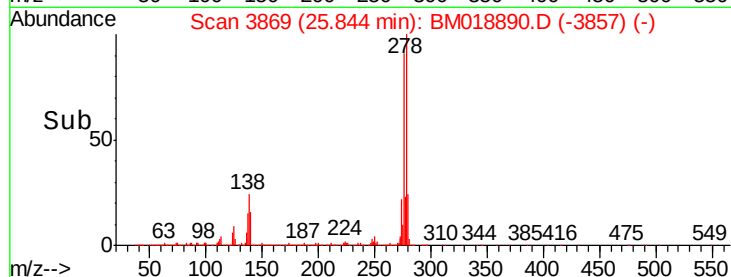
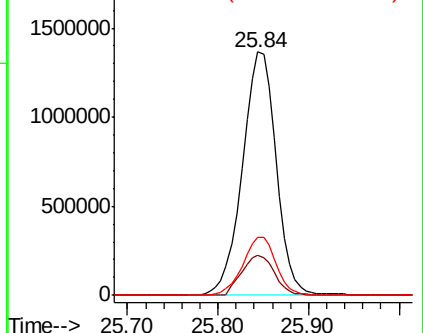
2/21/2019 10:09:01 AM



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



#92

Benzo(g,h,i)perylene

Concen: 48.571 ng

RT: 26.54 min Scan# 3987

Delta R.T. -0.03 min

Lab File: BM018890.D

Acq: 20 Feb 2019 19:05

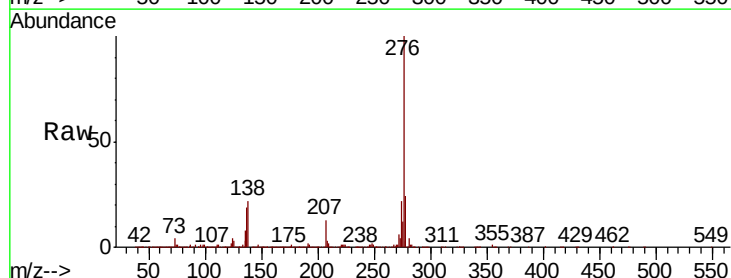
Tgt Ion:276 Resp: 3315527

Ion Ratio Lower Upper

276 100

277 23.7 19.2 28.8

138 22.0 17.3 25.9



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

