

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM122118\
 Data File : BM018375.D
 Acq On : 22 Dec 2018 02:07
 Operator : JU/SJ
 Sample : J6500-02MSD
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 SOIL-CUTTINGSMSD

Quant Time: Dec 22 03:52:41 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM121518.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Dec 15 21:39:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.48	152	101558	20.00	ng	-0.02
21) Naphthalene-d8	10.25	136	435186	20.00	ng	-0.02
39) Acenaphthene-d10	14.14	164	236956	20.00	ng	-0.02
64) Phenanthrene-d10	16.91	188	469473	20.00	ng	-0.01
76) Chrysene-d12	21.13	240	400586	20.00	ng	-0.01
87) Perylene-d12	23.30	264	438246	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.12	112	558196	91.82	ng	0.00
7) Phenol-d6	6.70	99	760395	89.99	ng	0.00
23) Nitrobenzene-d5	8.64	82	518271	61.09	ng	-0.02
42) 2,4,6-Tribromophenol	15.66	330	248367	71.41	ng	-0.01
45) 2-Fluorobiphenyl	12.74	172	1022250	55.88	ng	-0.02
79) Terphenyl-d14	19.57	244	1172501	66.20	ng	0.00

Target Compounds

						Qvalue
2) 1,4-Dioxane	3.12	88	56374	23.408	ng	95
3) Pyridine	3.50	79	196752	27.771	ng	94
4) n-Nitrosodimethylamine	3.42	42	87701	35.963	ng	92
6) Aniline	6.83	93	192542	18.164	ng	97
8) 2-Chlorophenol	7.06	128	207231	28.850	ng	95
9) Benzaldehyde	6.65	77	166291	32.286	ng	86
10) Phenol	6.72	94	321733	35.952	ng	89
11) bis(2-Chloroethyl)ether	6.93	93	189724	26.675	ng	97
12) 1,3-Dichlorobenzene	7.36	146	212127	26.446	ng	# 95
13) 1,4-Dichlorobenzene	7.52	146	209726	25.748	ng	96
14) 1,2-Dichlorobenzene	7.82	146	209860	26.727	ng	96
15) Benzyl Alcohol	7.74	79	211407	30.704	ng	93
16) 2,2'-oxybis(1-Chloropropan	8.02	45	141705	22.140	ng	85
17) 2-Methylphenol	7.95	107	178608	29.890	ng	90
18) Hexachloroethane	8.53	117	64727	21.681	ng	92
19) n-Nitroso-di-n-propylamine	8.29	70	177080	28.066	ng	# 93
20) 3+4-Methylphenols	8.28	107	237683	28.387	ng	93
22) Acetophenone	8.30	105	322476	28.001	ng	97
24) Nitrobenzene	8.69	77	266057	31.384	ng	91
25) Isophorone	9.20	82	452057	32.004	ng	96
26) 2-Nitrophenol	9.39	139	71639	17.230	ng	# 87
27) 2,4-Dimethylphenol	9.46	122	178658	29.814	ng	93
28) bis(2-Chloroethoxy)methane	9.69	93	255520	27.752	ng	98
29) 2,4-Dichlorophenol	9.92	162	196673	29.601	ng	97
30) 1,2,4-Trichlorobenzene	10.12	180	215066	28.457	ng	93
31) Naphthalene	10.30	128	620803	29.174	ng	100
32) Benzoic acid	9.60	122	47039	8.290	ng	# 83
33) 4-Chloroaniline	10.43	127	158039	16.955	ng	95
34) Hexachlorobutadiene	10.56	225	133216	27.871	ng	99
35) Caprolactam	11.25	113	56733	22.409	ng	94
36) 4-Chloro-3-methylphenol	11.59	107	219010	27.433	ng	97
37) 2-Methylnaphthalene	11.92	142	443272	29.538	ng	97
38) 1-Methylnaphthalene	12.15	142	419961	28.679	ng	100
40) 1,2,4,5-Tetrachlorobenzene	12.30	216	235948	28.957	ng	99

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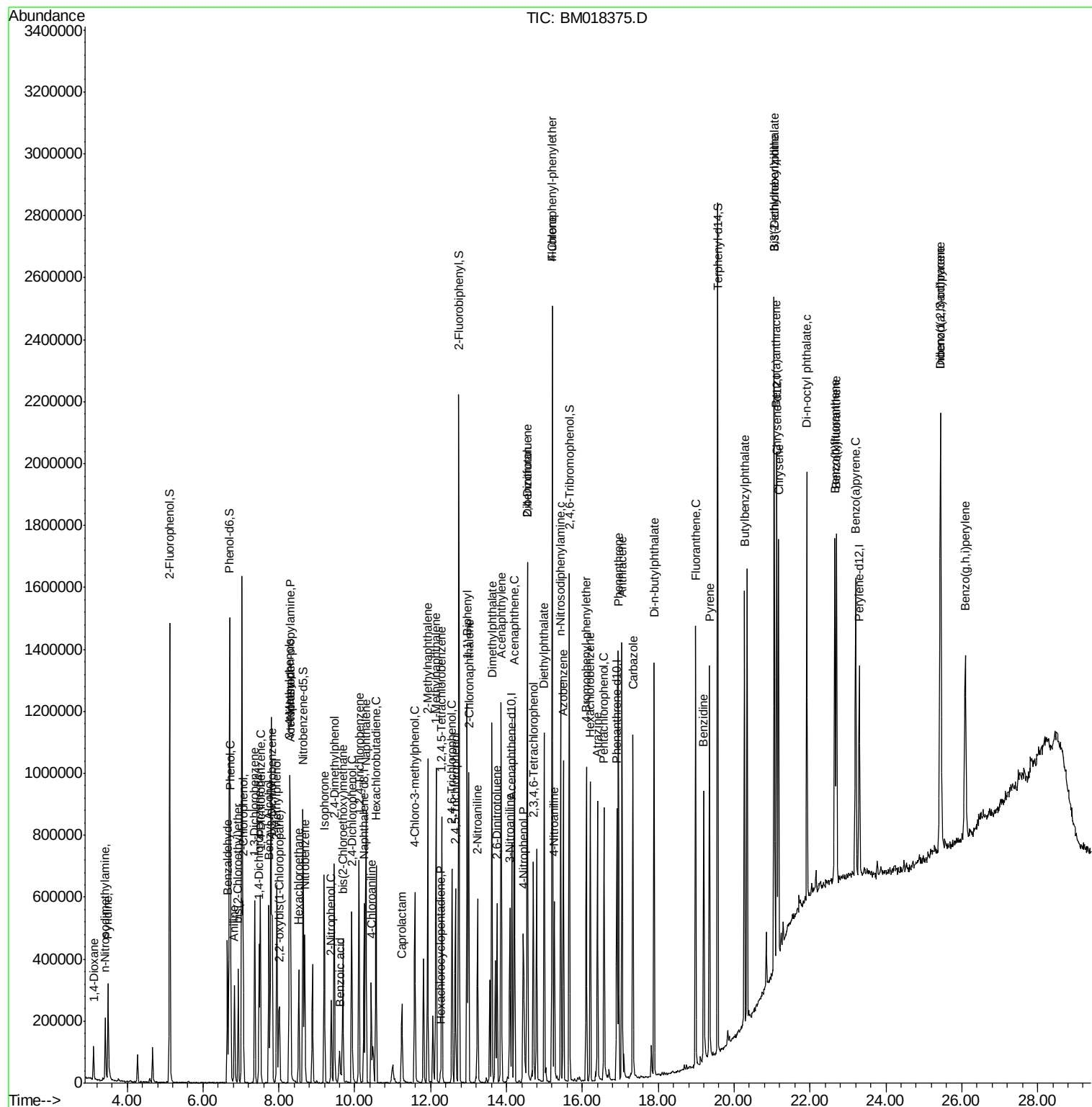
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Hexachlorocyclopentadiene	12.26	237	10154	10.648	ng	93
43) 2,4,6-Trichlorophenol	12.57	196	149123	28.454	ng	99
44) 2,4,5-Trichlorophenol	12.65	196	154182	27.712	ng	95
46) 1,1'-Biphenyl	12.96	154	566646	26.581	ng	98
47) 2-Chloronaphthalene	13.00	162	438295	27.934	ng	97
48) 2-Nitroaniline	13.24	65	169873	35.146	ng	88
49) Acenaphthylene	13.86	152	684656	28.956	ng	99
50) Dimethylphthalate	13.62	163	656447	33.323	ng	99
51) 2,6-Dinitrotoluene	13.75	165	102594	23.690	ng #	83
52) Acenaphthene	14.21	154	406142	28.107	ng	99
53) 3-Nitroaniline	14.09	138	122684	26.920	ng	89
55) Dibenzofuran	14.55	168	646745	27.855	ng	97
56) 4-Nitrophenol	14.44	139	131329	38.008	ng	81
57) 2,4-Dinitrotoluene	14.56	165	137561	22.980	ng #	83
58) Fluorene	15.20	166	524214	29.232	ng	98
59) 2,3,4,6-Tetrachlorophenol	14.71	232	102753	20.507	ng	97
60) Diethylphthalate	14.99	149	560835	26.380	ng	98
61) 4-Chlorophenyl-phenylether	15.20	204	273323	26.950	ng	96
62) 4-Nitroaniline	15.26	138	118305	27.358	ng #	70
63) Azobenzene	15.50	77	594507	30.669	ng	94
66) n-Nitrosodiphenylamine	15.43	169	455712	29.354	ng	100
67) 4-Bromophenyl-phenylether	16.10	248	162294	28.544	ng	98
68) Hexachlorobenzene	16.21	284	174626	28.035	ng #	93
69) Atrazine	16.40	200	157822	30.113	ng	97
70) Pentachlorophenol	16.57	266	146719	35.665	ng	99
71) Phenanthrene	16.95	178	743054	29.139	ng	99
72) Anthracene	17.04	178	756843	29.917	ng	99
73) Carbazole	17.33	167	643688	24.789	ng	99
74) Di-n-butylphthalate	17.89	149	914722	28.550	ng	99
75) Fluoranthene	18.99	202	745459	25.143	ng	99
77) Benzidine	19.20	184	523371	51.523	ng	99
78) Pyrene	19.35	202	745147	31.218	ng	99
80) Butylbenzylphthalate	20.27	149	346850	30.546	ng	94
81) Benzo(a)anthracene	21.12	228	693122	29.620	ng	99
82) 3,3'-Dichlorobenzidine	21.06	252	269285	28.805	ng	98
83) Chrysene	21.17	228	653915	29.053	ng	100
84) Bis(2-ethylhexyl)phthalate	21.06	149	510792	30.183	ng	98
85) Di-n-octyl phthalate	21.91	149	831339	29.995	ng #	96
86) Indeno(1,2,3-cd)pyrene	25.44	276	883337	39.399	ng	97
88) Benzo(b)fluoranthene	22.66	252	730710	29.683	ng	99
89) Benzo(k)fluoranthene	22.70	252	677809	27.647	ng	98
90) Benzo(a)pyrene	23.20	252	698737	29.844	ng	98
91) Dibenzo(a,h)anthracene	25.44	278	753357	34.735	ng	99
92) Benzo(g,h,i)perylene	26.10	276	712647	34.761	ng	97

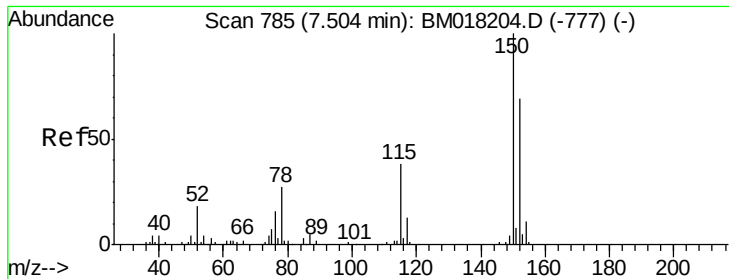
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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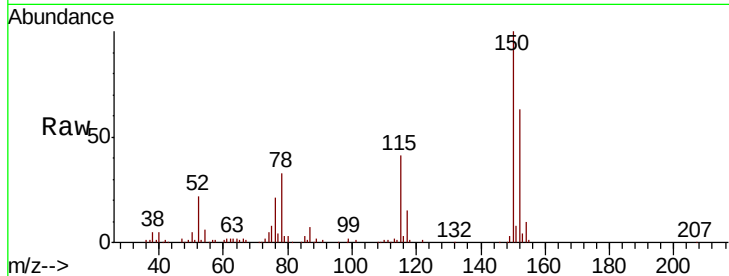


#1

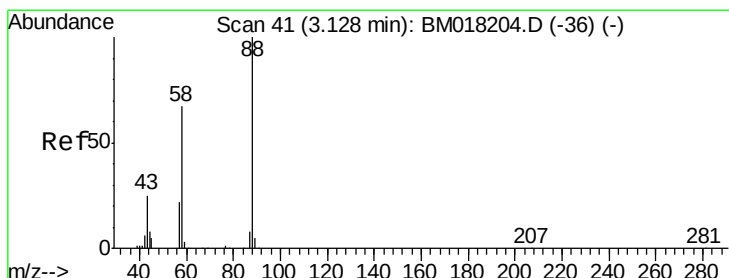
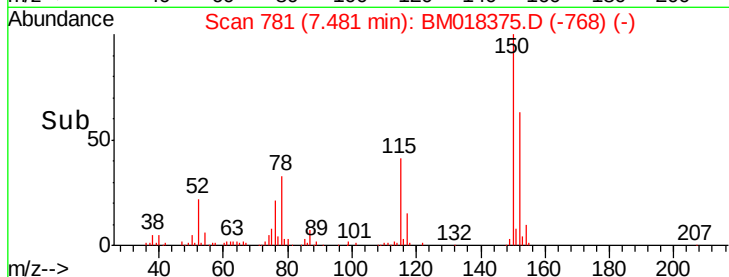
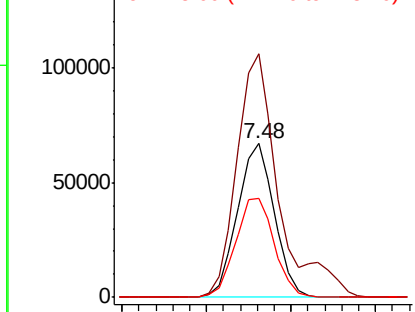
1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 7.48 min Scan# 781
 Delta R.T. -0.02 min
 Lab File: BM018375.D
 Acq: 22 Dec 2018 02:07

Instrument :
 BNA_M
 ClientSampleId :
 SOIL-CUTTINGSMSD

Tgt Ion:152 Resp: 101558
 Ion Ratio Lower Upper
 152 100
 150 158.4 116.1 174.1
 115 64.3 44.6 67.0



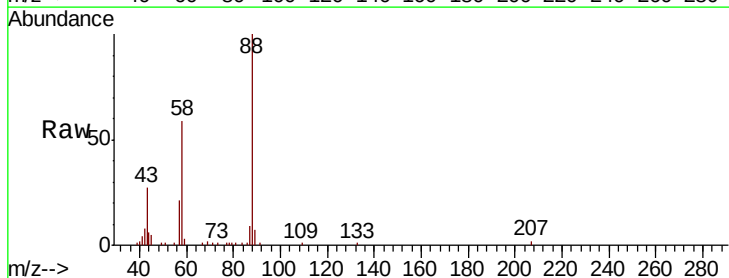
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



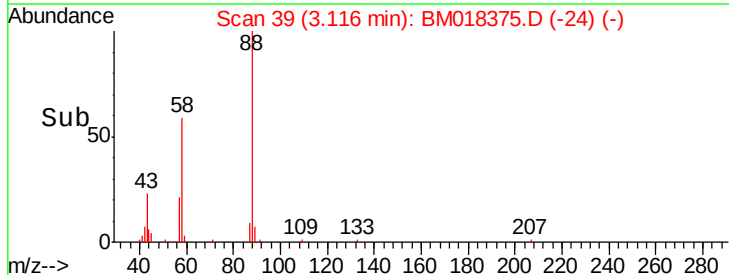
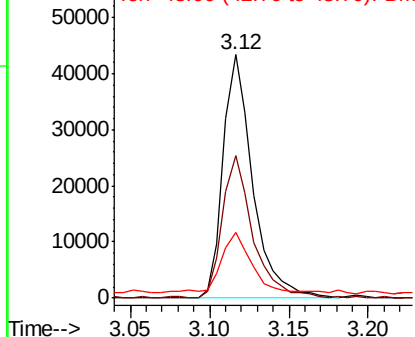
#2

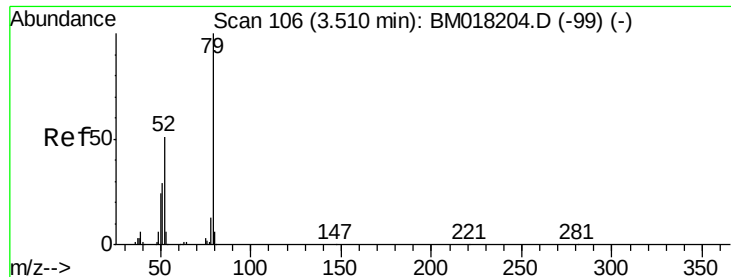
1,4-Dioxane
 Concen: 23.408 ng
 RT: 3.12 min Scan# 39
 Delta R.T. -0.01 min
 Lab File: BM018375.D
 Acq: 22 Dec 2018 02:07

Tgt Ion: 88 Resp: 56374
 Ion Ratio Lower Upper
 88 100
 58 59.8 49.8 74.6
 43 28.0 19.1 28.7



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

Pyridine

Concen: 27.771 ng

RT: 3.50 min Scan# 104

Delta R.T. -0.01 min

Lab File: BM018375.D

Acq: 22 Dec 2018 02:07

Instrument :

BNA_M

ClientSampleId :

SOIL-CUTTINGSMSD

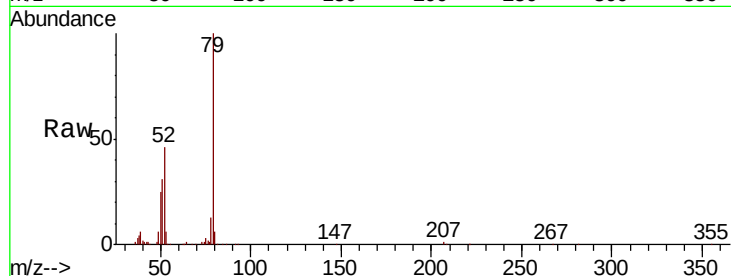
Tgt Ion: 79 Resp: 196752

Ion Ratio Lower Upper

79 100

52 46.1 40.7 61.1

51 30.9 23.0 34.6

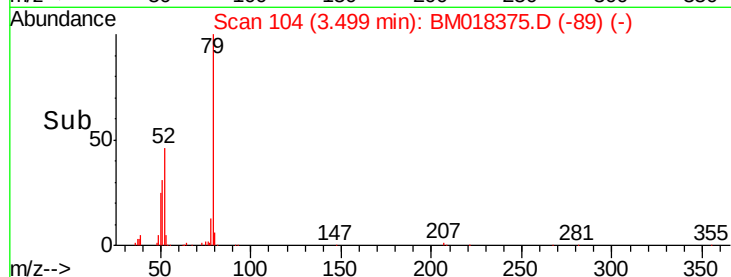


Abundance Ion 79.00 (78.70 to 79.70): BM018204.D (-99) (-)

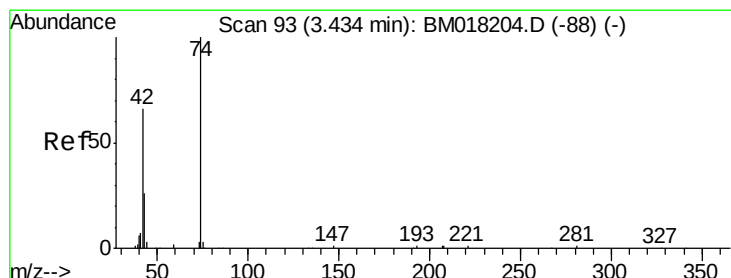
Ion 52.00 (51.70 to 52.70): BM018204.D (-99) (-)

Ion 51.00 (50.70 to 51.70): BM018204.D (-99) (-)

3.50



Time-->



#4

n-Nitrosodimethylamine

Concen: 35.963 ng

RT: 3.42 min Scan# 91

Delta R.T. -0.01 min

Lab File: BM018375.D

Acq: 22 Dec 2018 02:07

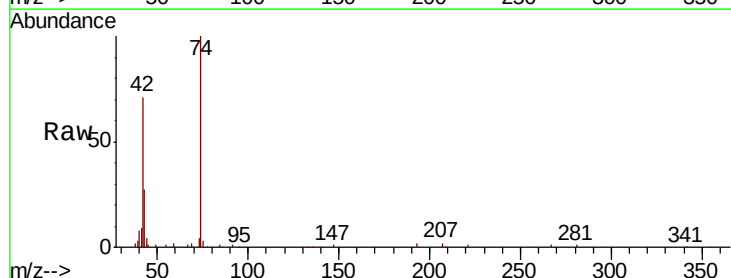
Tgt Ion: 42 Resp: 87701

Ion Ratio Lower Upper

42 100

74 140.4 120.4 180.6

44 5.0 4.6 7.0

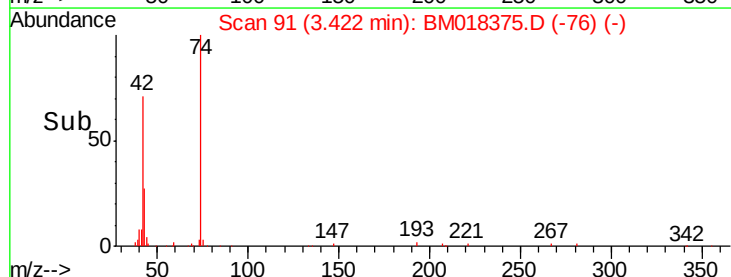


Abundance Ion 42.00 (41.70 to 42.70): BM018204.D (-88) (-)

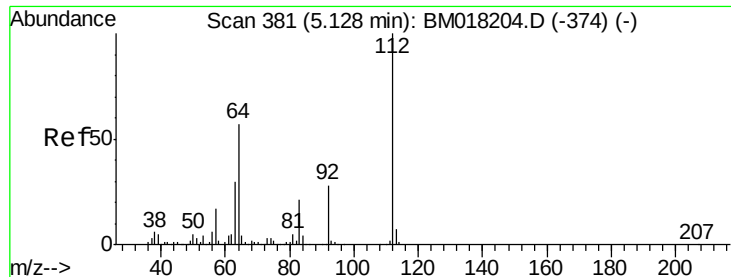
Ion 74.00 (73.70 to 74.70): BM018204.D (-88) (-)

Ion 44.00 (43.70 to 44.70): BM018204.D (-88) (-)

3.42



Time-->



#5

2-Fluorophenol

Concen: 91.815 ng

RT: 5.12 min Scan# 380

Delta R.T. -0.01 min

Lab File: BM018375.D

Acq: 22 Dec 2018 02:07

Instrument :

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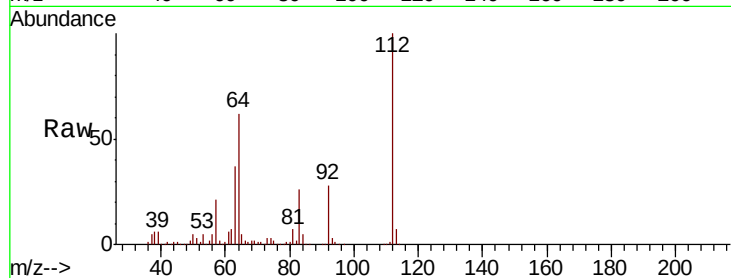
Tgt Ion: 112 Resp: 558196

Ion Ratio Lower Upper

112 100

64 61.6 45.4 68.2

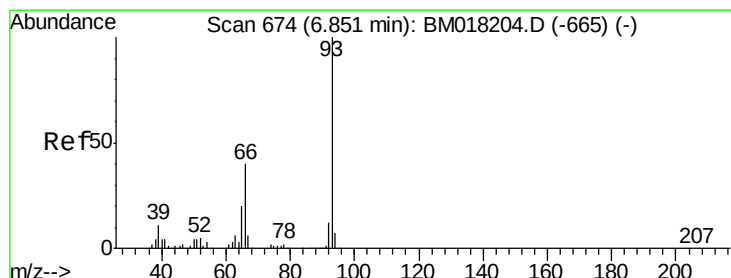
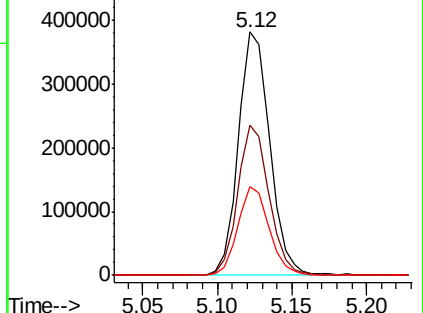
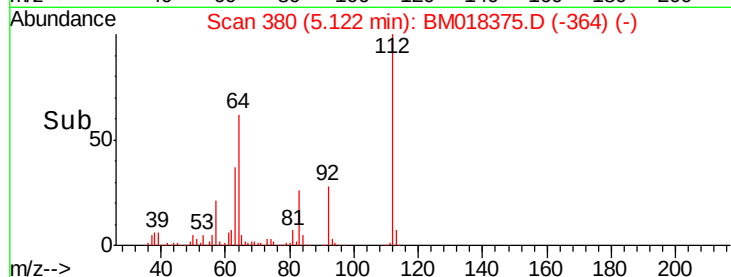
63 36.7 24.0 36.0#



Abundance Ion 112.00 (111.70 to 112.70): B

Ion 64.00 (63.70 to 64.70): BM

Ion 63.00 (62.70 to 63.70): BM



#6

Aniline

Concen: 18.164 ng

RT: 6.83 min Scan# 671

Delta R.T. -0.02 min

Lab File: BM018375.D

Acq: 22 Dec 2018 02:07

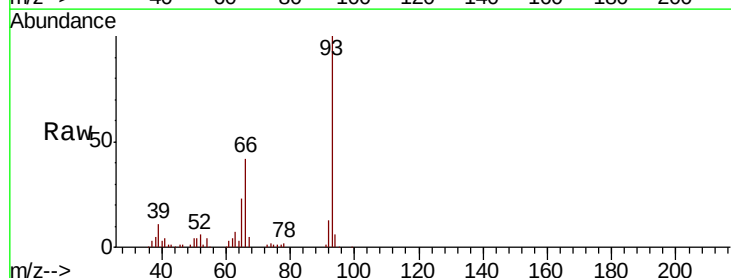
Tgt Ion: 93 Resp: 192542

Ion Ratio Lower Upper

93 100

66 42.1 32.3 48.5

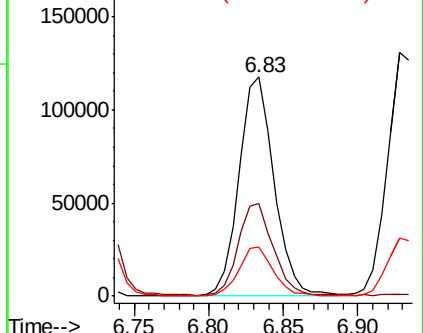
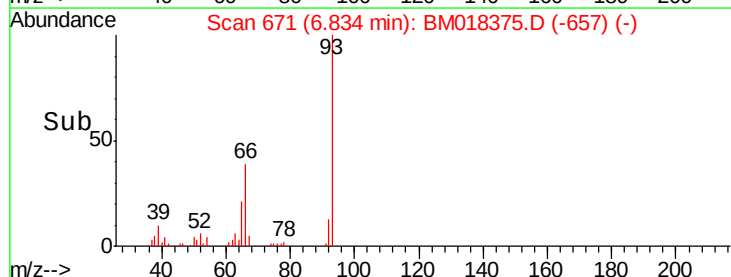
65 22.6 16.2 24.4

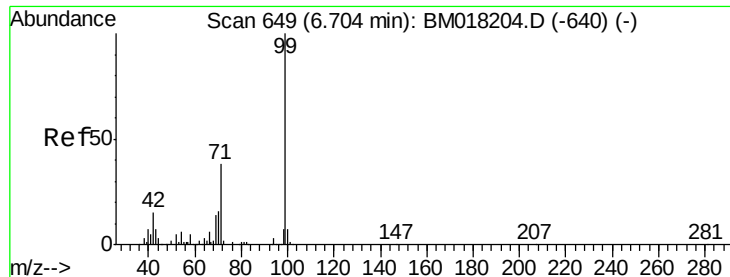


Abundance Ion 93.00 (92.70 to 93.70): BM

Ion 66.00 (65.70 to 66.70): BM

Ion 65.00 (64.70 to 65.70): BM





#7

Phenol-d6

Concen: 89.987 ng

RT: 6.70 min Scan# 648

Delta R.T. -0.01 min

Lab File: BM018375.D

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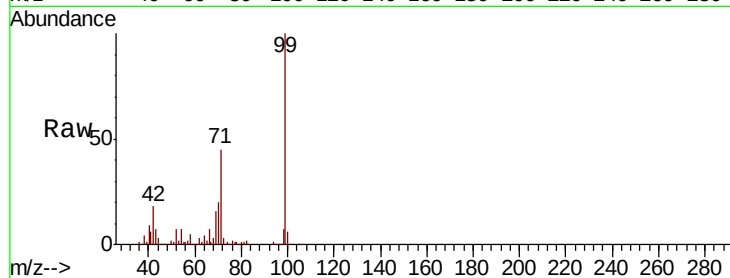
Tgt Ion: 99 Resp: 760395

Ion Ratio Lower Upper

99 100

42 18.4 12.3 18.5

71 44.7 30.2 45.2



Abundance Ion 99.00 (98.70 to 99.70): BM018204.D (-640) (-)

Ion 42.00 (41.70 to 42.70): BM018204.D (-640) (-)

Ion 71.00 (70.70 to 71.70): BM018204.D (-640) (-)

6.70

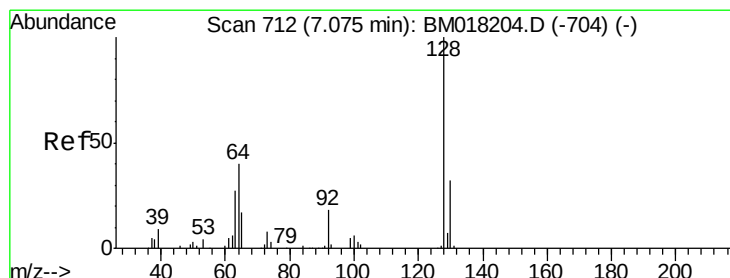
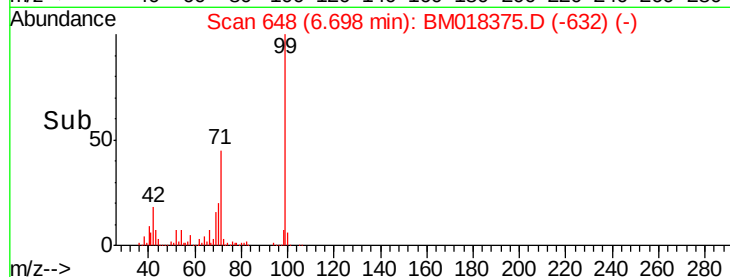
400000

200000

0

6.65 6.70 6.75

Time-->



#8

2-Chlorophenol

Concen: 28.850 ng

RT: 7.06 min Scan# 709

Delta R.T. -0.02 min

Lab File: BM018375.D

Acq: 22 Dec 2018 02:07

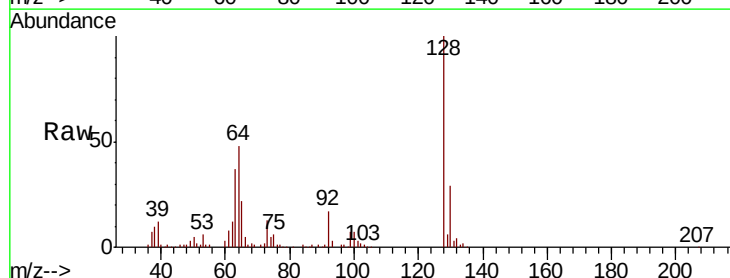
Tgt Ion: 128 Resp: 207231

Ion Ratio Lower Upper

128 100

130 29.4 12.3 52.3

64 47.7 24.1 64.1



Abundance Ion 128.00 (127.70 to 128.70): BM018204.D (-704) (-)

Ion 130.00 (129.70 to 130.70): BM018204.D (-704) (-)

Ion 64.00 (63.70 to 64.70): BM018204.D (-704) (-)

7.06

150000

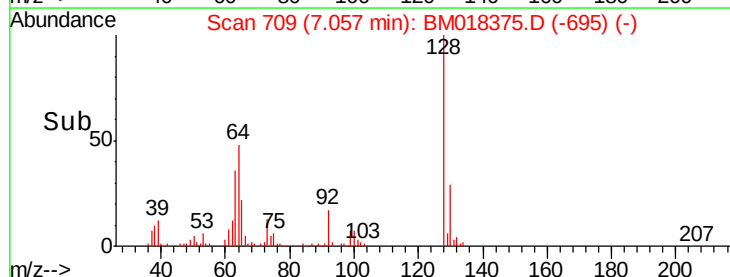
100000

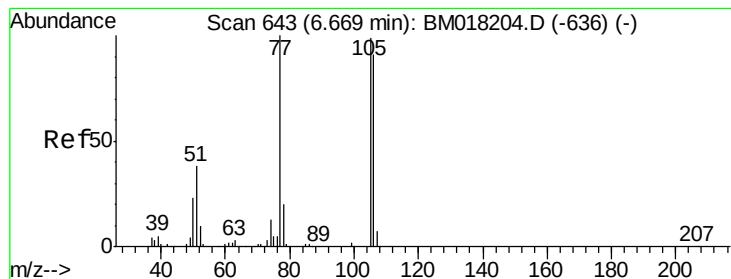
50000

0

7.00 7.05 7.10 7.15

Time-->





#9

Benzaldehyde

Concen: 32.286 ng

RT: 6.65 min Scan# 639

Delta R.T. -0.02 min

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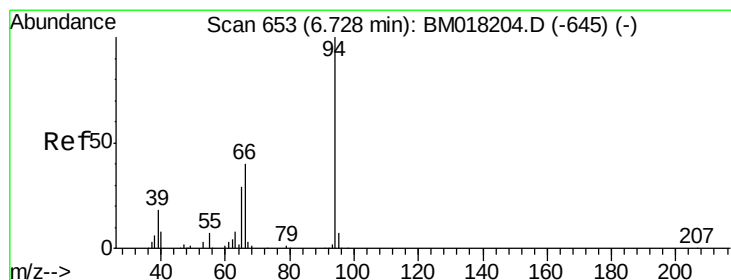
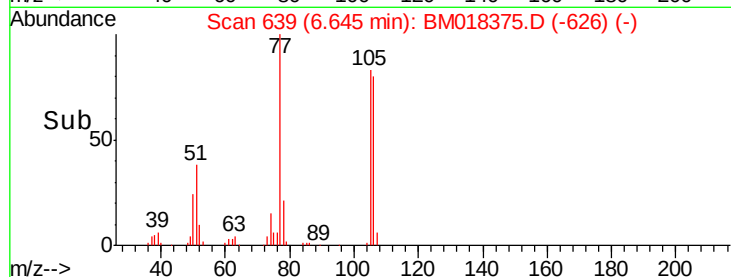
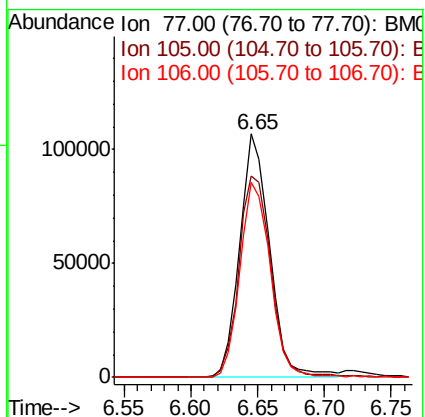
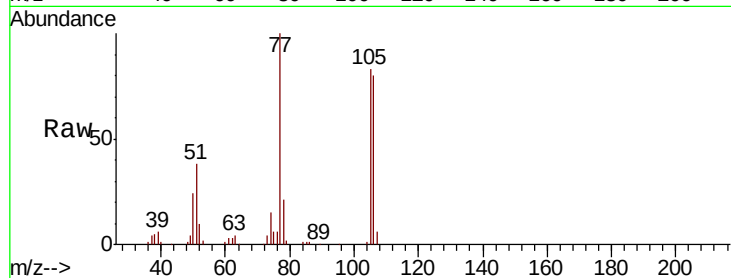
Tgt Ion: 77 Resp: 166291

Ion Ratio Lower Upper

77 100

105 82.9 78.8 118.8

106 80.0 70.7 110.7



#10

Phenol

Concen: 35.952 ng

RT: 6.72 min Scan# 652

Delta R.T. -0.01 min

Lab File: BM018375.D

Acq: 22 Dec 2018 02:07

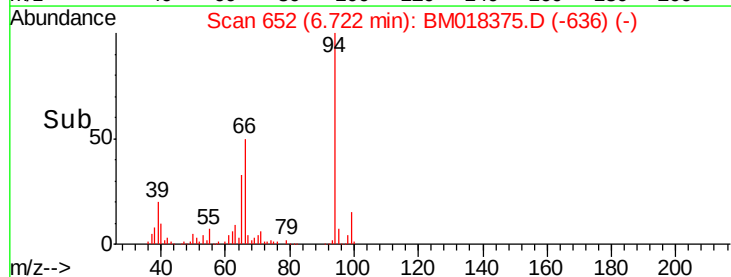
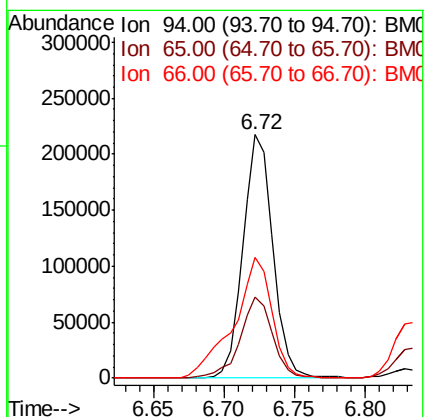
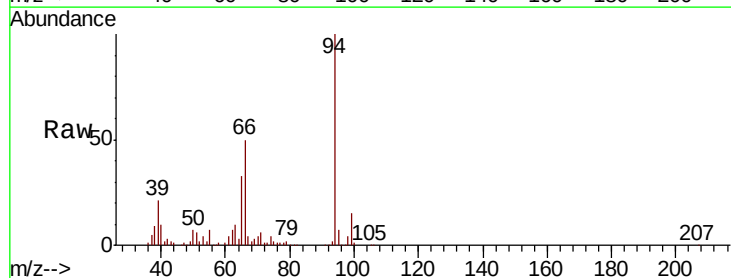
Tgt Ion: 94 Resp: 321733

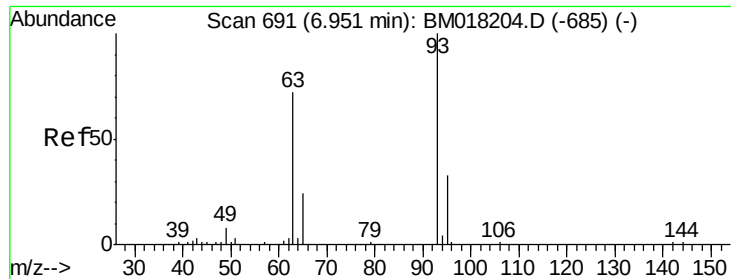
Ion Ratio Lower Upper

94 100

65 33.5 9.5 49.5

66 49.7 21.3 61.3

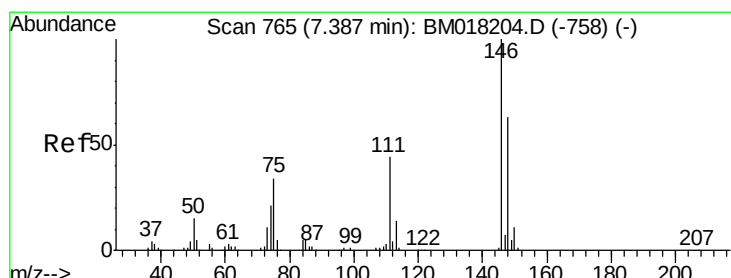
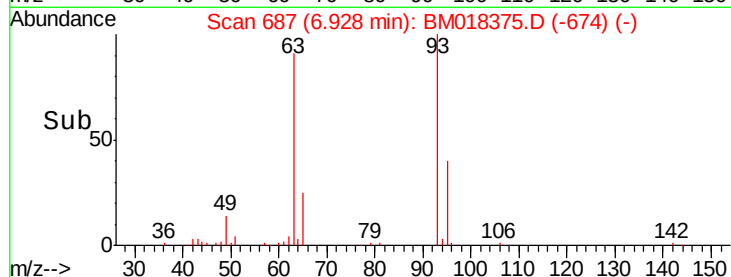
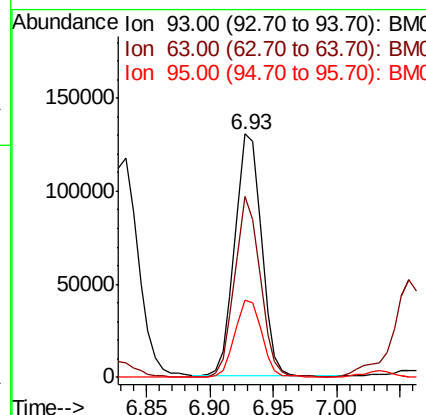
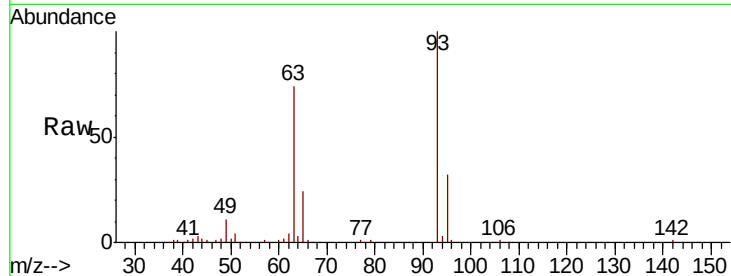




#11
bis(2-Chloroethyl)ether
Concen: 26.675 ng
RT: 6.93 min Scan# 687
Delta R.T. -0.02 min
Lab File: BM018375.D
Acq: 22 Dec 2018 02:07

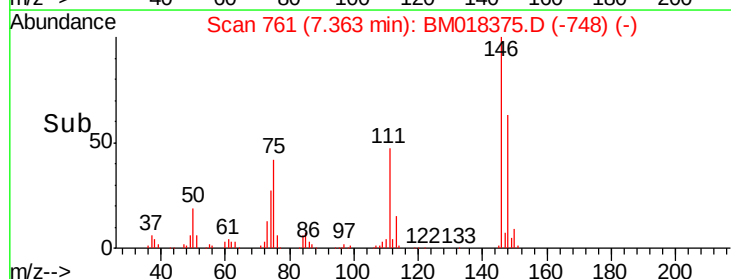
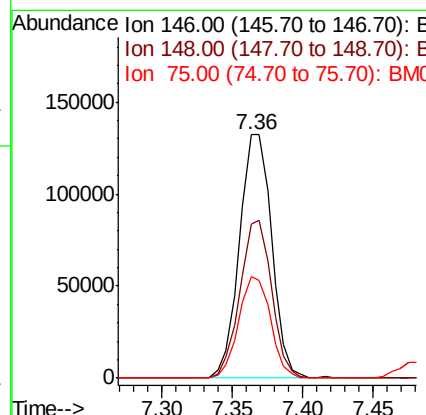
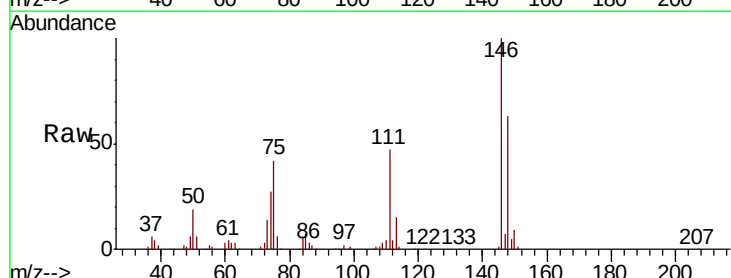
Instrument :
BNA_M
ClientSampleId :
SOIL-CUTTINGSMSD

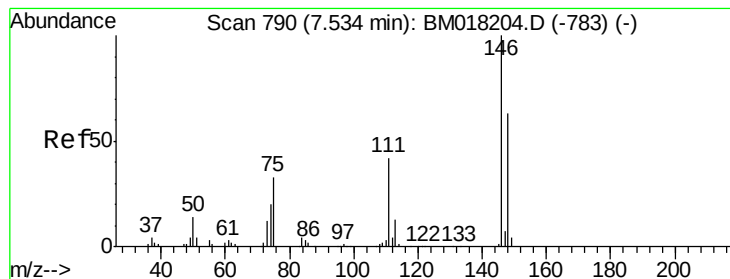
Tgt Ion: 93 Resp: 189724
Ion Ratio Lower Upper
93 100
63 74.2 51.7 91.7
95 31.9 13.1 53.1



#12
1,3-Dichlorobenzene
Concen: 26.446 ng
RT: 7.36 min Scan# 761
Delta R.T. -0.02 min
Lab File: BM018375.D
Acq: 22 Dec 2018 02:07

Tgt Ion: 146 Resp: 212127
Ion Ratio Lower Upper
146 100
148 63.4 50.6 76.0
75 41.5 27.0 40.4#





#13

1,4-Dichlorobenzene

Concen: 25.748 ng

RT: 7.52 min Scan# 787

Delta R.T. -0.02 min

Lab File: BM018375.D

Acq: 22 Dec 2018 02:07

Instrument :

BNA_M

ClientSampleId :

SOIL-CUTTINGSMSD

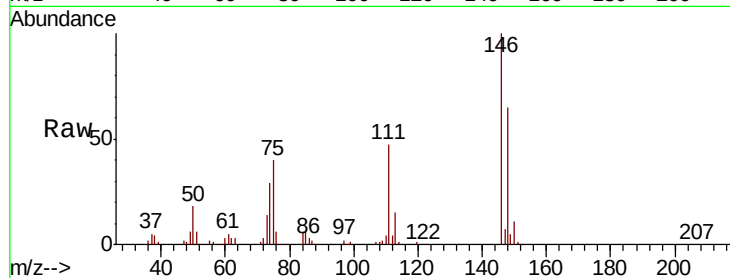
Tgt Ion:146 Resp: 209726

Ion Ratio Lower Upper

146 100

148 65.3 50.7 76.1

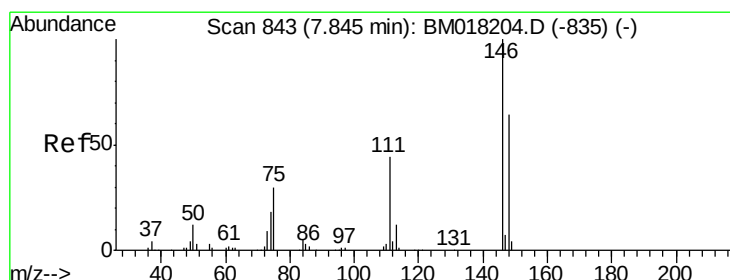
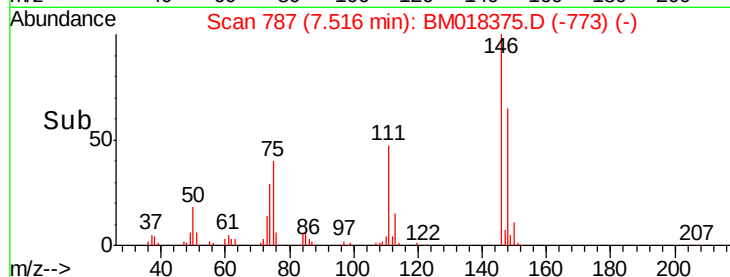
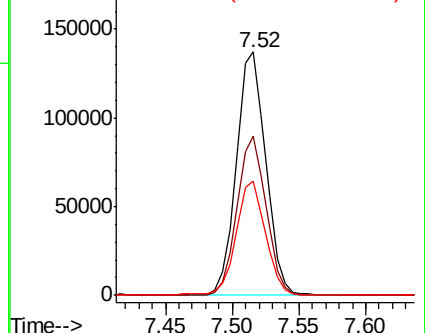
111 47.1 34.2 51.2



Abundance Ion 146.00 (145.70 to 146.70): E

Ion 148.00 (147.70 to 148.70): E

Ion 111.00 (110.70 to 111.70): E



#14

1,2-Dichlorobenzene

Concen: 26.727 ng

RT: 7.82 min Scan# 839

Delta R.T. -0.02 min

Lab File: BM018375.D

Acq: 22 Dec 2018 02:07

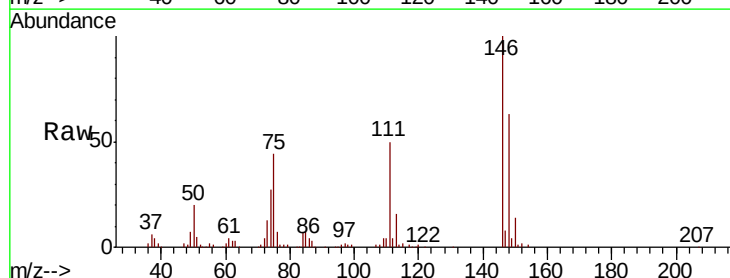
Tgt Ion:146 Resp: 209860

Ion Ratio Lower Upper

146 100

148 63.3 51.3 76.9

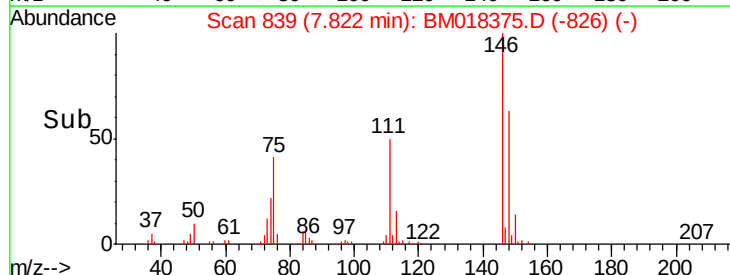
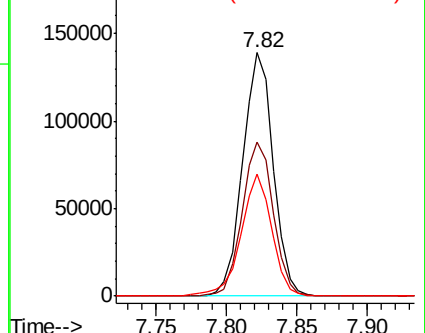
111 49.9 35.8 53.8

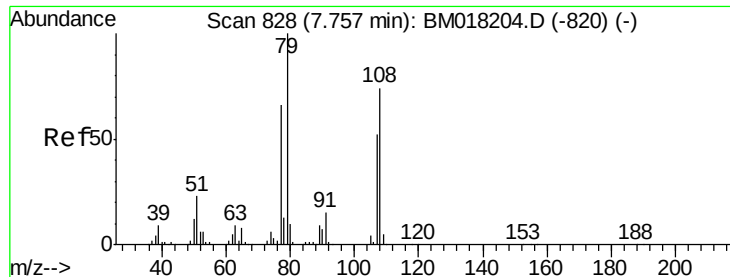


Abundance Ion 146.00 (145.70 to 146.70): E

Ion 148.00 (147.70 to 148.70): E

Ion 111.00 (110.70 to 111.70): E

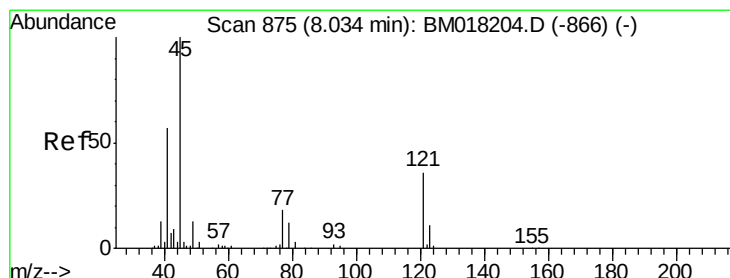
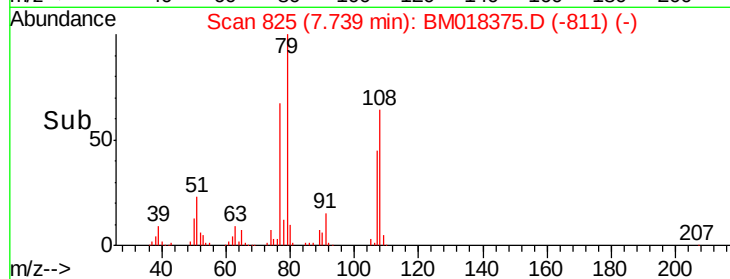
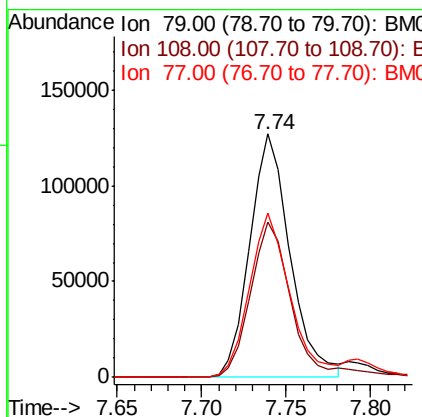
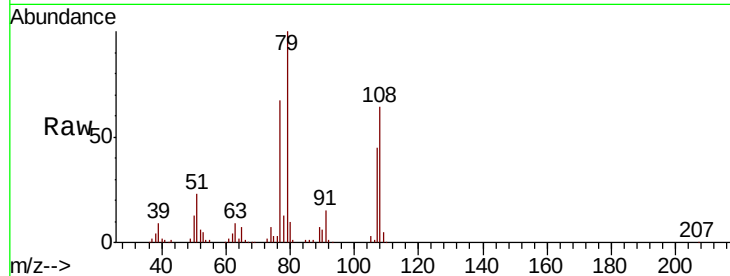




#15
Benzyl Alcohol
Concen: 30.704 ng
RT: 7.74 min Scan# 825
Delta R.T. -0.02 min
Lab File: BM018375.D
Acq: 22 Dec 2018 02:07

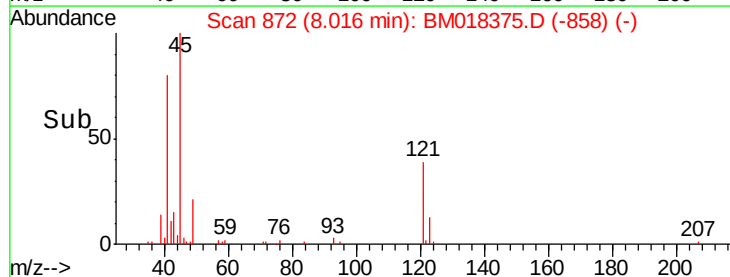
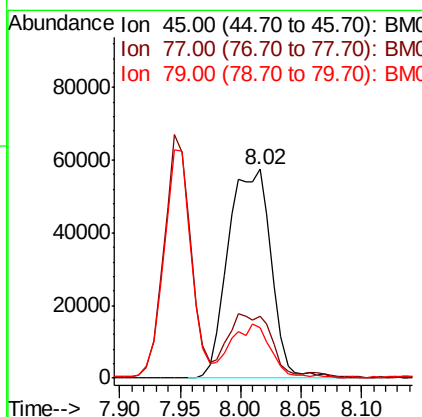
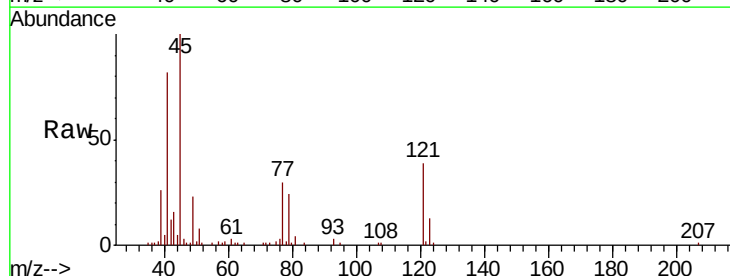
Instrument :
BNA_M
ClientSampleId :
SOIL-CUTTINGSMSD

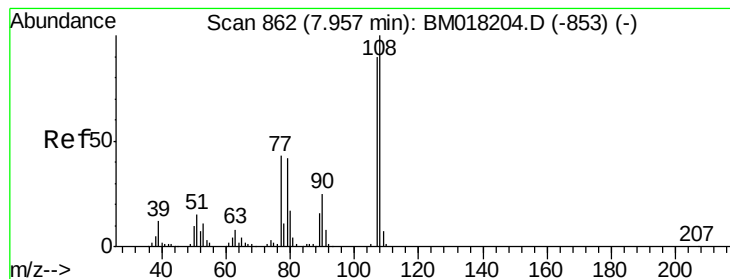
Tgt Ion	Ratio	Lower	Upper
79	100		
108	64.0	59.3	88.9
77	67.3	53.0	79.4



#16
2,2'-oxybis(1-chloropropane)
Concen: 22.140 ng
RT: 8.02 min Scan# 872
Delta R.T. -0.02 min
Lab File: BM018375.D
Acq: 22 Dec 2018 02:07

Tgt Ion	Ratio	Lower	Upper
45	100		
77	29.5	2.5	42.5
79	24.2	0.0	37.2

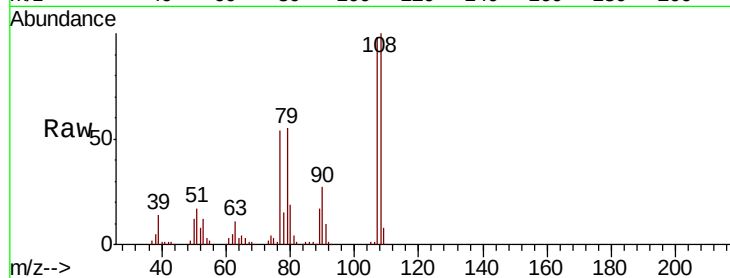




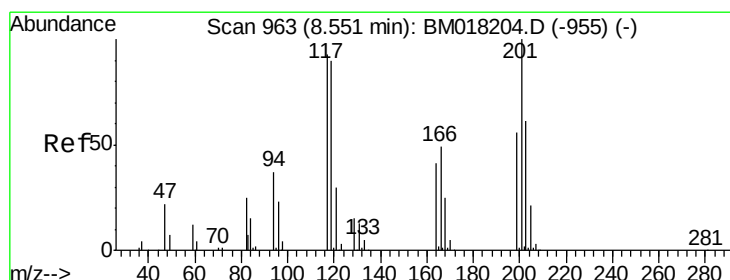
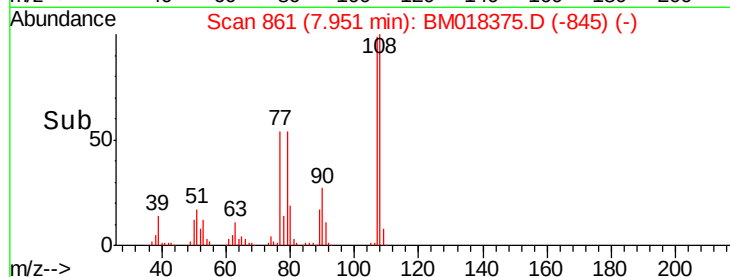
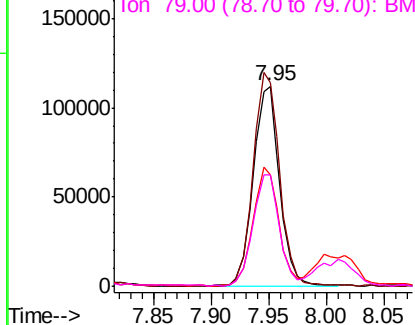
#17
2-Methylphenol
Concen: 29.890 ng
RT: 7.95 min Scan# 861
Delta R.T. -0.01 min
Lab File: BM018375.D
Acq: 22 Dec 2018 02:07

Instrument :
BNA_M
ClientSampleId :
SOIL-CUTTINGSMSD

Tgt Ion:	107	Resp:	178608
Ion	Ratio	Lower	Upper
107	100		
108	101.8	89.3	133.9
77	55.4	38.2	57.4
79	55.6	37.7	56.5

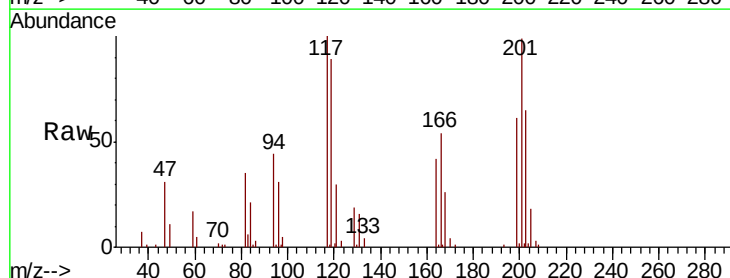


Abundance Ion 107.00 (106.70 to 107.70): E
Ion 108.00 (107.70 to 108.70): E
Ion 77.00 (76.70 to 77.70): BM0
Ion 79.00 (78.70 to 79.70): BM0

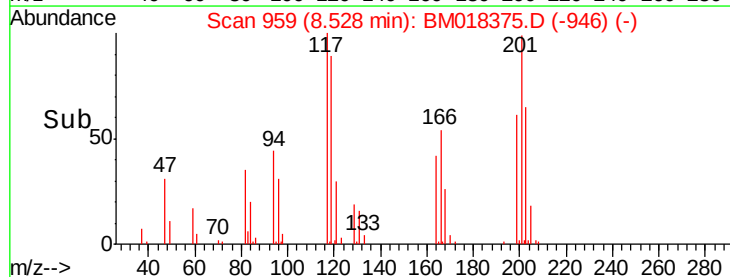
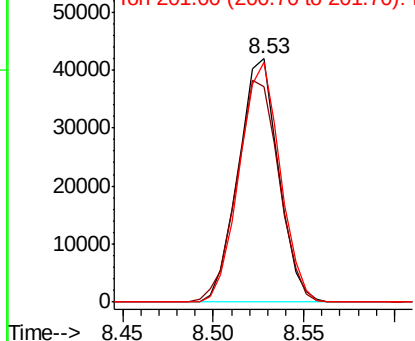


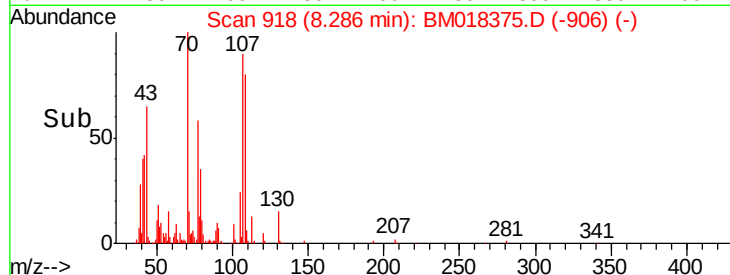
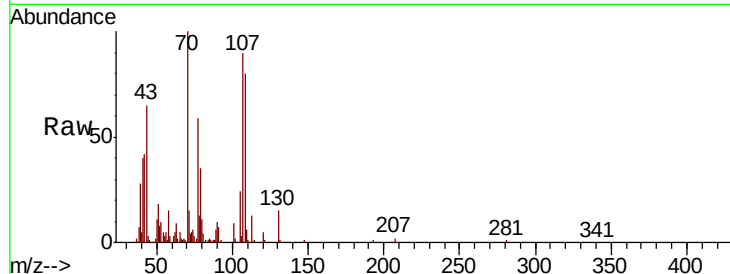
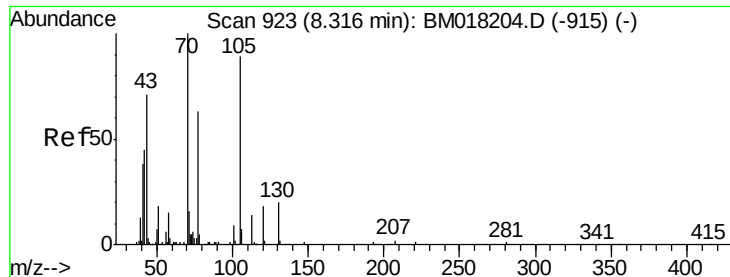
#18
Hexachloroethane
Concen: 21.681 ng
RT: 8.53 min Scan# 959
Delta R.T. -0.02 min
Lab File: BM018375.D
Acq: 22 Dec 2018 02:07

Tgt Ion:	117	Resp:	64727
Ion	Ratio	Lower	Upper
117	100		
119	88.7	77.0	115.4
201	98.5	85.7	128.5



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

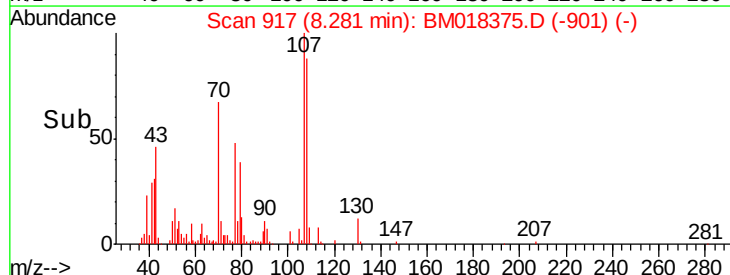
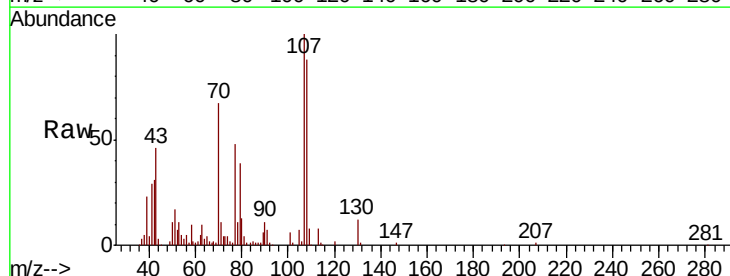
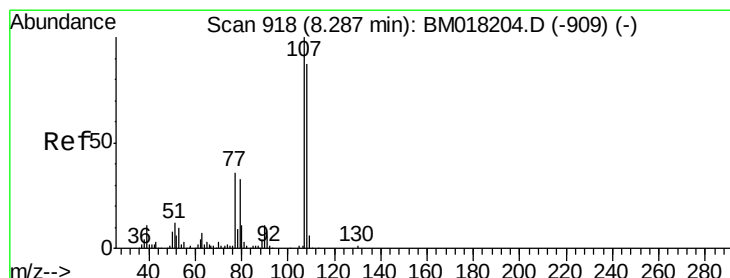
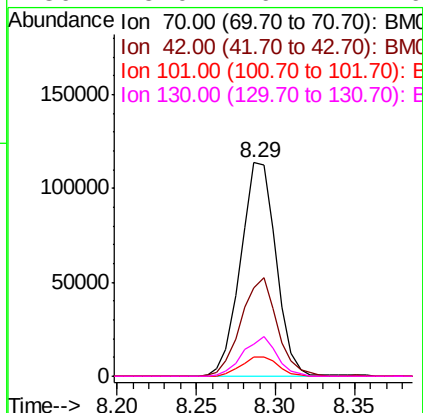




#19
n-Nitroso-di-n-propylamine
Concen: 28.066 ng
RT: 8.29 min Scan# 918
Delta R.T. -0.03 min
Lab File: BM018375.D
Acq: 22 Dec 2018 02:07

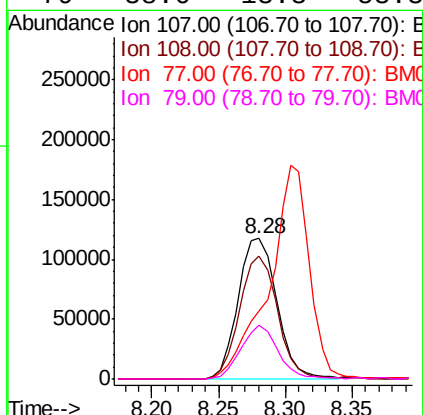
Instrument :
BNA_M
ClientSampleId :
SOIL-CUTTINGSMSD

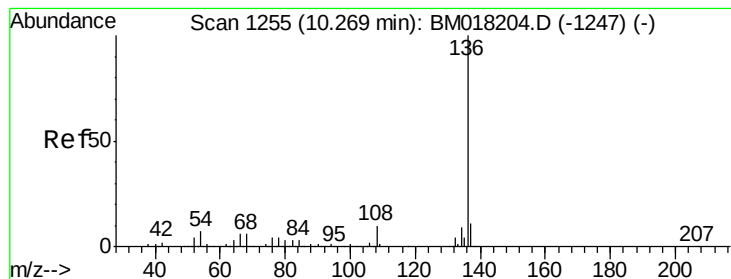
Tgt Ion: 70 Resp: 177080
Ion Ratio Lower Upper
70 100
42 41.7 36.2 54.2
101 8.9 7.5 11.3
130 15.0 16.4 24.6#



#20
3+4-Methylphenols
Concen: 28.387 ng
RT: 8.28 min Scan# 917
Delta R.T. -0.01 min
Lab File: BM018375.D
Acq: 22 Dec 2018 02:07

Tgt Ion: 107 Resp: 237683
Ion Ratio Lower Upper
107 100
108 88.0 67.4 107.4
77 48.1 15.7 55.7
79 38.6 13.3 53.3





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.25 min Scan# 1251

Delta R.T. -0.02 min

Lab File: BM018375.D

Acq: 22 Dec 2018 02:07

Instrument :

BNA_M

ClientSampleId :

SOIL-CUTTINGSMSD

Tgt Ion:136 Resp: 435186

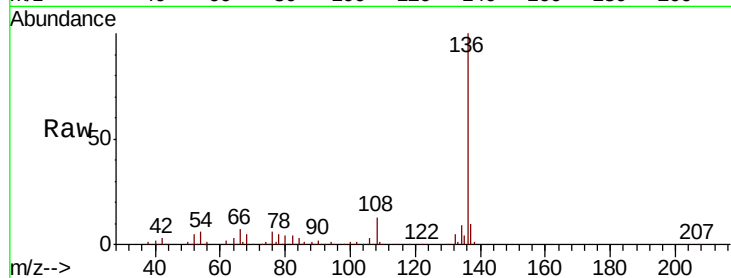
Ion Ratio Lower Upper

136 100

137 10.3 9.2 13.8

54 5.8 5.2 7.8

68 5.0 5.0 7.6#

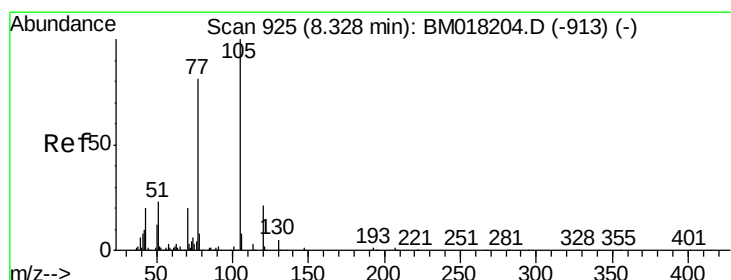
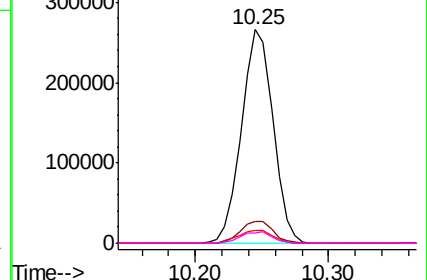
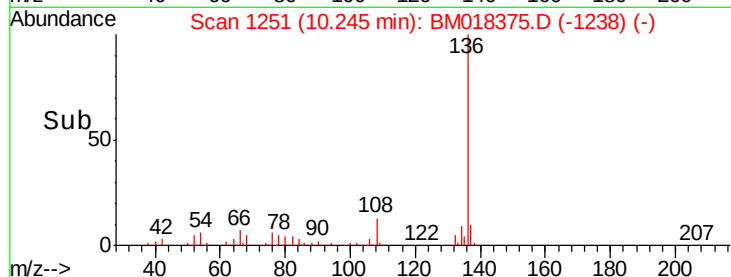


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BM

Ion 68.00 (67.70 to 68.70): BM



#22

Acetophenone

Concen: 28.001 ng

RT: 8.30 min Scan# 921

Delta R.T. -0.02 min

Lab File: BM018375.D

Acq: 22 Dec 2018 02:07

Tgt Ion:105 Resp: 322476

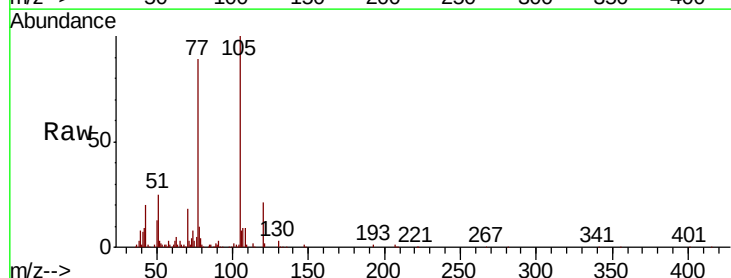
Ion Ratio Lower Upper

105 100

71 3.5 2.6 4.0

51 25.3 18.3 27.5

120 20.9 17.0 25.6

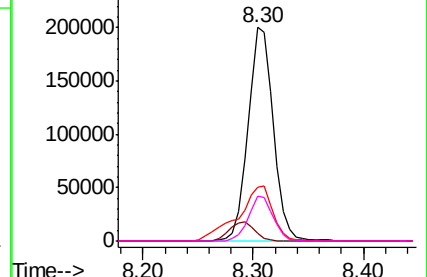
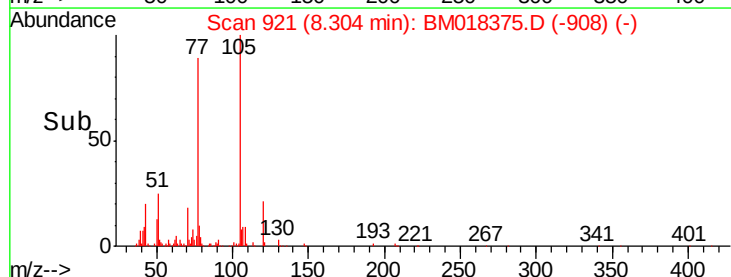


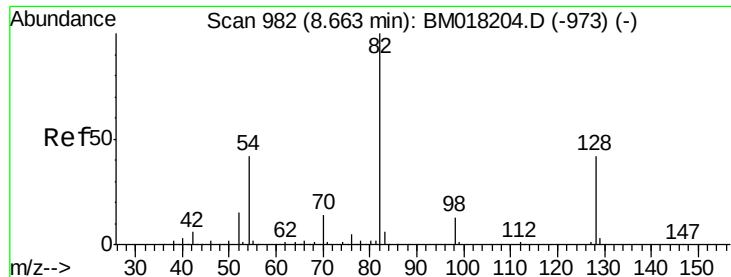
Abundance Ion 105.00 (104.70 to 105.70): E

Ion 71.00 (70.70 to 71.70): BM

Ion 51.00 (50.70 to 51.70): BM

Ion 120.00 (119.70 to 120.70): E

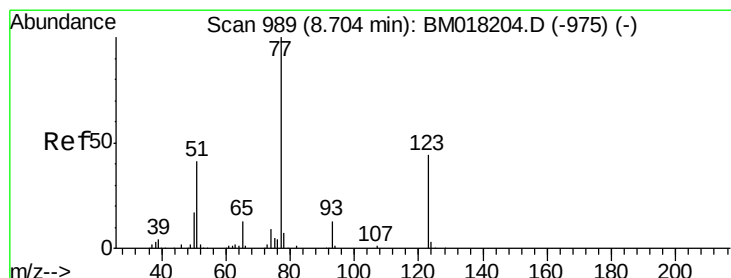
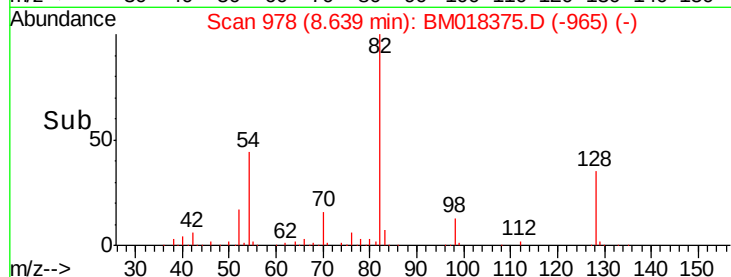
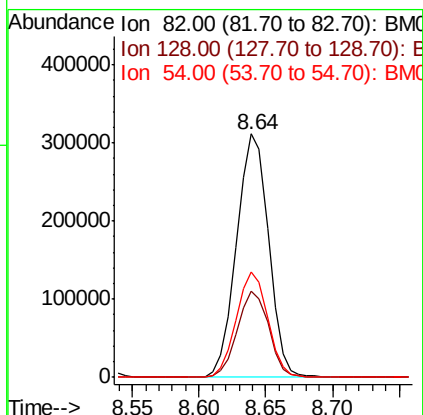
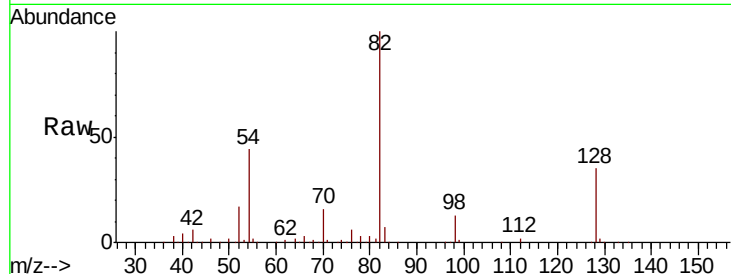




#23
 Nitrobenzene-d5
 Concen: 61.086 ng
 RT: 8.64 min Scan# 978
 Delta R.T. -0.02 min
 Lab File: BM018375.D
 Acq: 22 Dec 2018 02:07

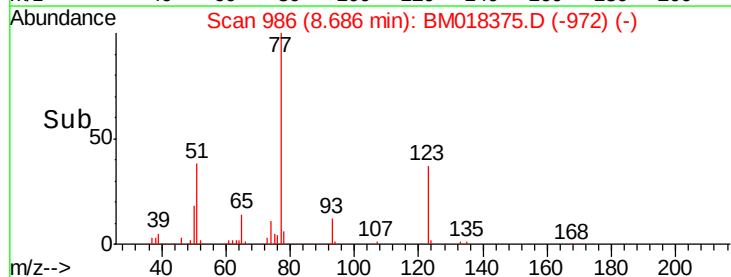
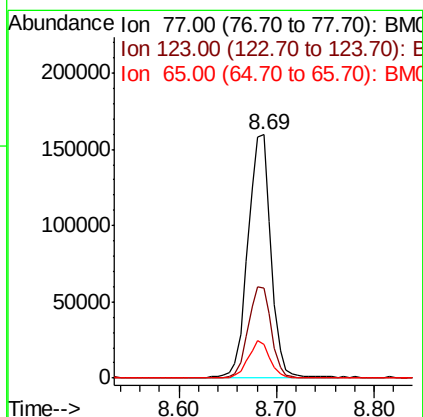
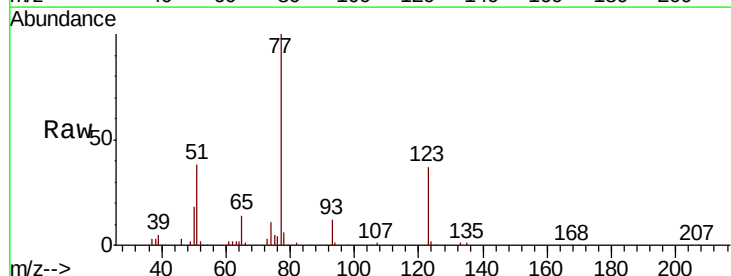
Instrument :
 BNA_M
 ClientSampleId :
 SOIL-CUTTINGSMSD

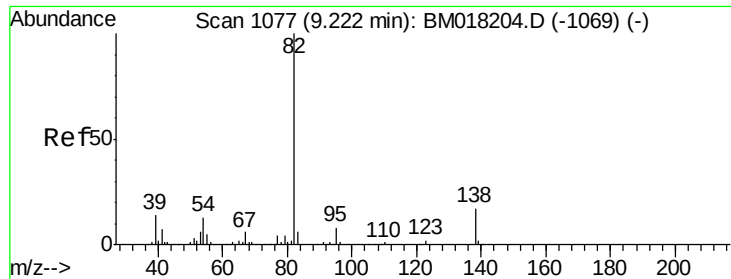
Tgt Ion	Ratio	Lower	Upper
82	100		
128	35.3	33.4	50.2
54	43.5	33.4	50.2



#24
 Nitrobenzene
 Concen: 31.384 ng
 RT: 8.69 min Scan# 986
 Delta R.T. -0.02 min
 Lab File: BM018375.D
 Acq: 22 Dec 2018 02:07

Tgt Ion	Ratio	Lower	Upper
77	100		
123	36.9	35.4	53.2
65	13.7	10.6	15.8

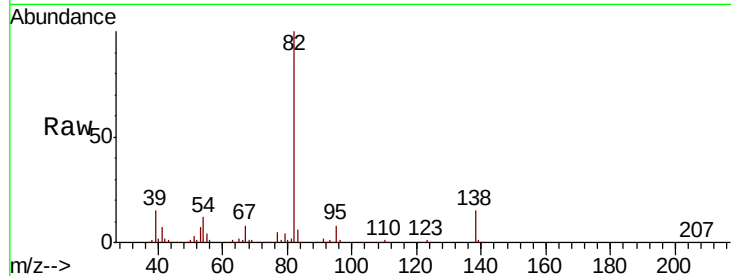




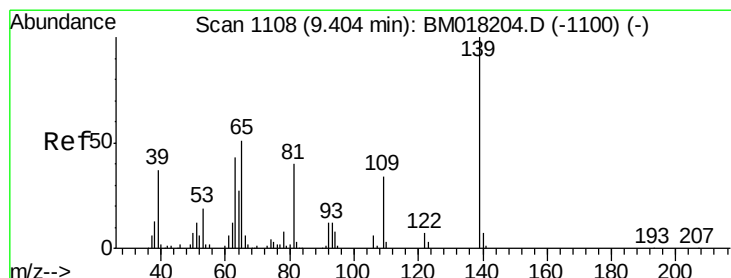
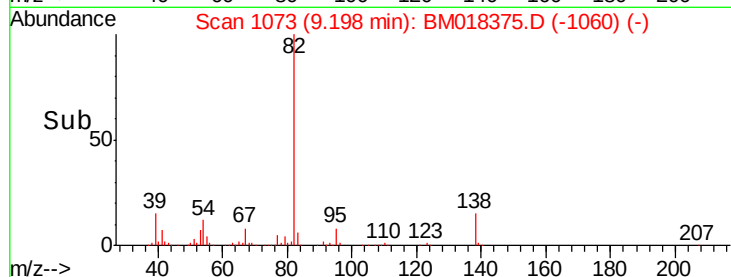
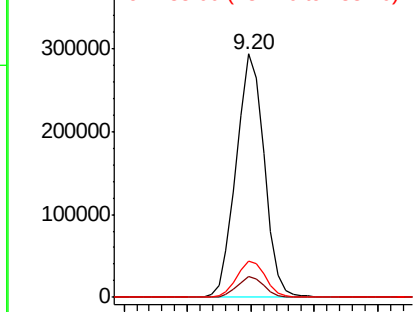
#25
Isophorone
Concen: 32.004 ng
RT: 9.20 min Scan# 1073
Delta R.T. -0.02 min
Lab File: BM018375.D
Acq: 22 Dec 2018 02:07

Instrument :
BNA_M
ClientSampleId :
SOIL-CUTTINGSMSD

Tgt Ion: 82 Resp: 452057
Ion Ratio Lower Upper
82 100
95 8.4 6.4 9.6
138 15.0 13.9 20.9

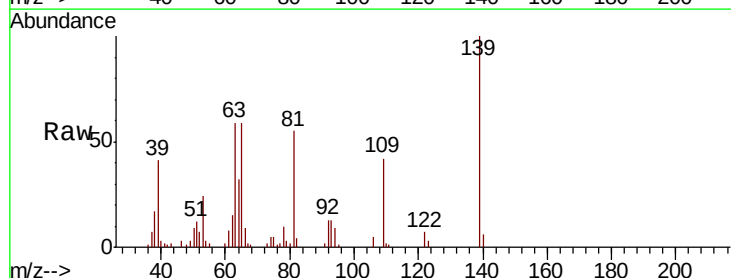


Abundance Ion 82.00 (81.70 to 82.70): BM018204.D (-1069) (-)
Ion 95.00 (94.70 to 95.70): BM018204.D (-1069) (-)
Ion 138.00 (137.70 to 138.70): BM018204.D (-1069) (-)

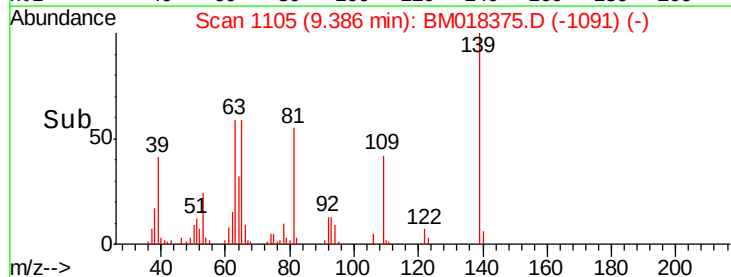
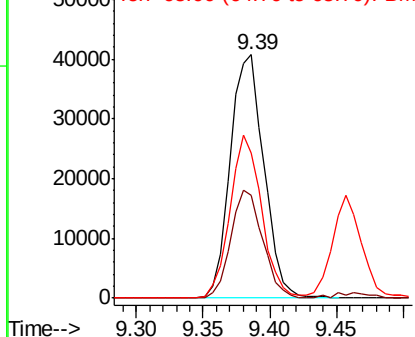


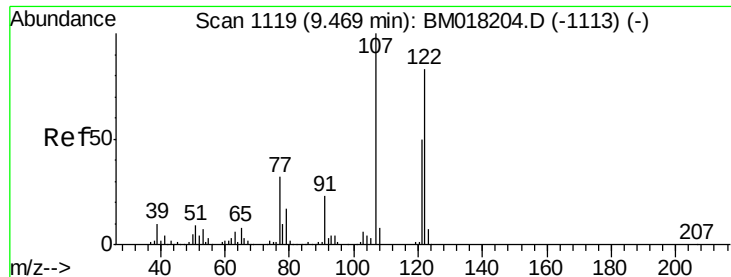
#26
2-Nitrophenol
Concen: 17.230 ng
RT: 9.39 min Scan# 1105
Delta R.T. -0.02 min
Lab File: BM018375.D
Acq: 22 Dec 2018 02:07

Tgt Ion: 139 Resp: 71639
Ion Ratio Lower Upper
139 100
109 42.1 27.4 41.0#
65 59.4 41.0 61.4



Abundance Ion 139.00 (138.70 to 139.70): BM018204.D (-1100) (-)
Ion 109.00 (108.70 to 109.70): BM018204.D (-1100) (-)
Ion 65.00 (64.70 to 65.70): BM018204.D (-1100) (-)

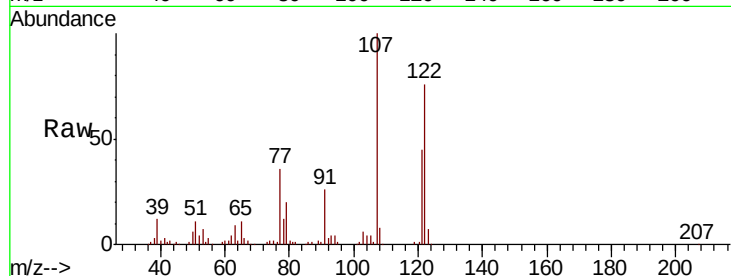




#27
2,4-Dimethylphenol
Concen: 29.814 ng
RT: 9.46 min Scan# 1117
Delta R.T. -0.01 min
Lab File: BM018375.D
Acq: 22 Dec 2018 02:07

Instrument :
BNA_M
ClientSampleId :
SOIL-CUTTINGSMSD

Tgt Ion	Ratio	Lower	Upper
122	100		
107	131.8	96.5	144.7
121	59.3	48.2	72.4

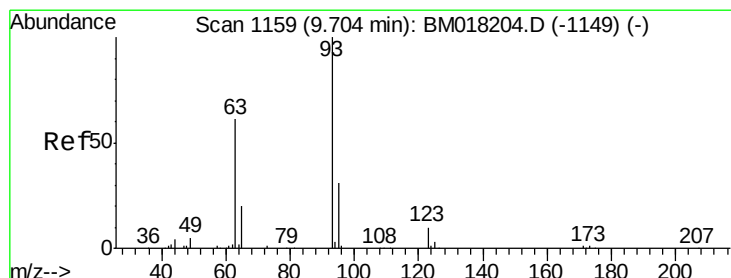
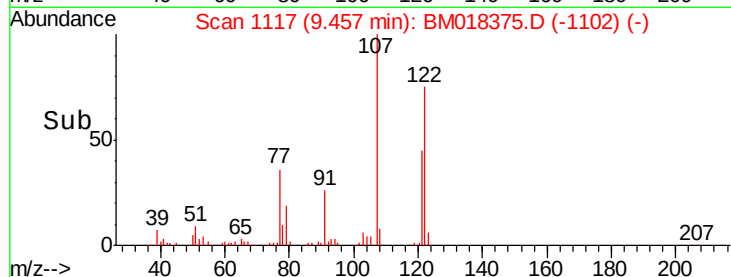
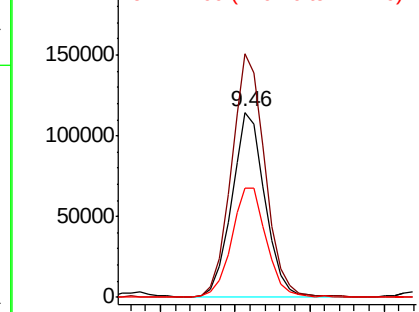


Abundance

Ion 122.00 (121.70 to 122.70): E

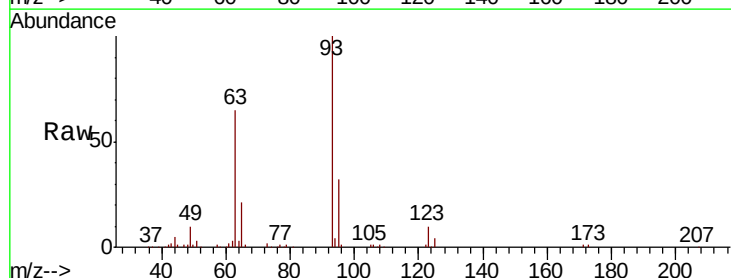
Ion 107.00 (106.70 to 107.70): E

Ion 121.00 (120.70 to 121.70): E



#28
bis(2-Chloroethoxy)methane
Concen: 27.752 ng
RT: 9.69 min Scan# 1156
Delta R.T. -0.02 min
Lab File: BM018375.D
Acq: 22 Dec 2018 02:07

Tgt Ion	Ratio	Lower	Upper
93	100		
95	32.4	25.3	37.9
123	10.0	9.3	13.9

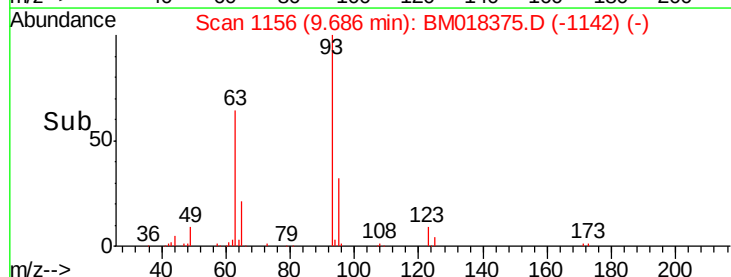
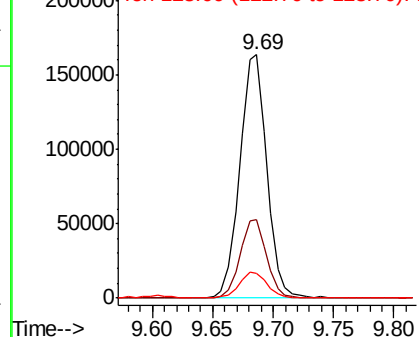


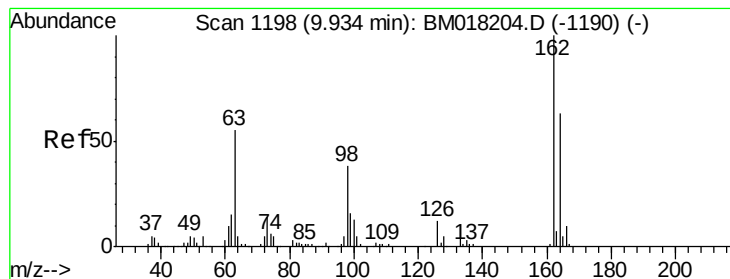
Abundance

Ion 93.00 (92.70 to 93.70): BM0

Ion 95.00 (94.70 to 95.70): BM0

Ion 123.00 (122.70 to 123.70): E





#29

2,4-Dichlorophenol

Concen: 29.601 ng

RT: 9.92 min Scan# 1196

Delta R.T. -0.01 min

Lab File: BM018375.D

Acq: 22 Dec 2018 02:07

Instrument :

BNA_M

ClientSampleId :

SOIL-CUTTINGSMSD

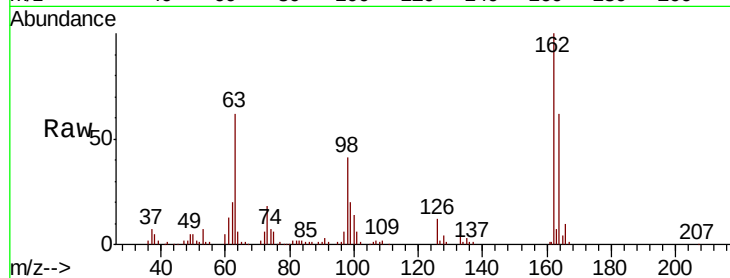
Tgt Ion:162 Resp: 196673

Ion Ratio Lower Upper

162 100

164 61.6 43.0 83.0

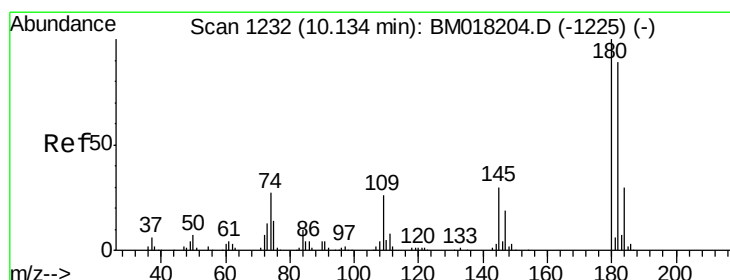
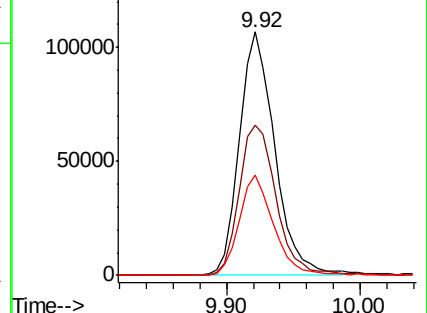
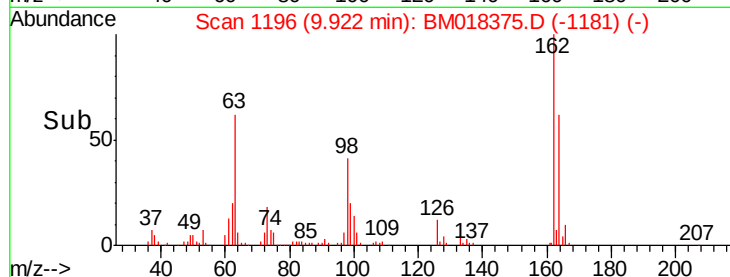
98 40.9 18.3 58.3



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: 28.457 ng

RT: 10.12 min Scan# 1229

Delta R.T. -0.02 min

Lab File: BM018375.D

Acq: 22 Dec 2018 02:07

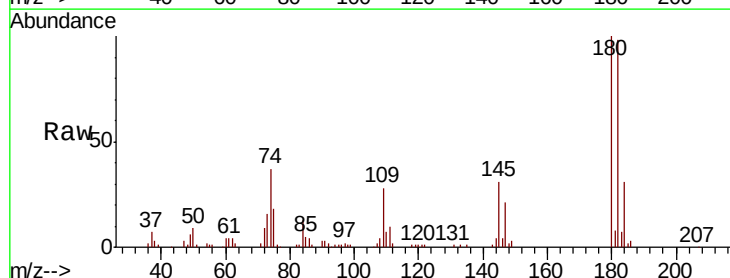
Tgt Ion:180 Resp: 215066

Ion Ratio Lower Upper

180 100

182 97.5 71.4 107.2

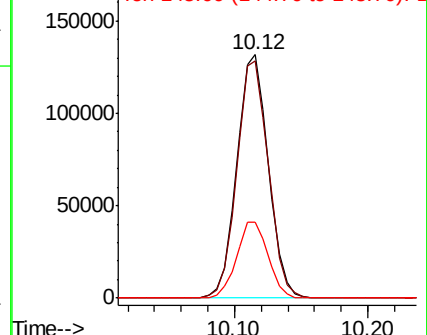
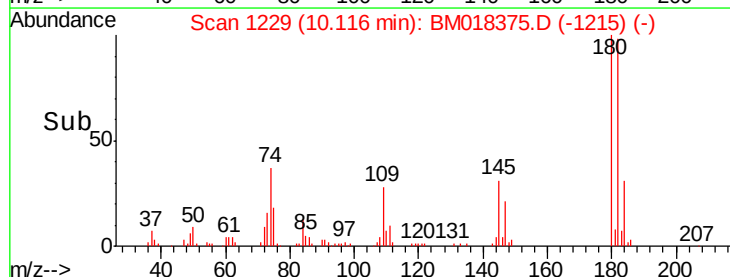
145 31.0 24.4 36.6

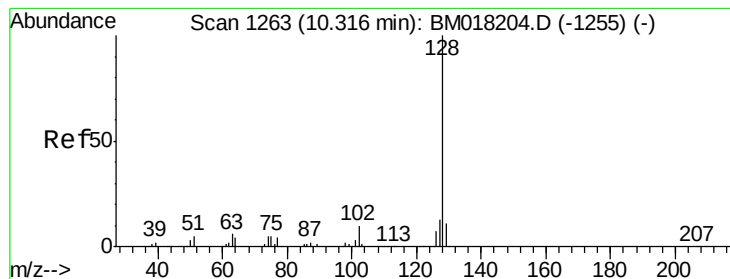


Abundance Ion 180.00 (179.70 to 180.70): E

Ion 182.00 (181.70 to 182.70): E

Ion 145.00 (144.70 to 145.70): E

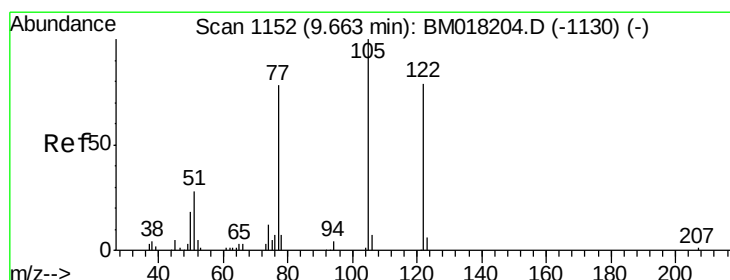
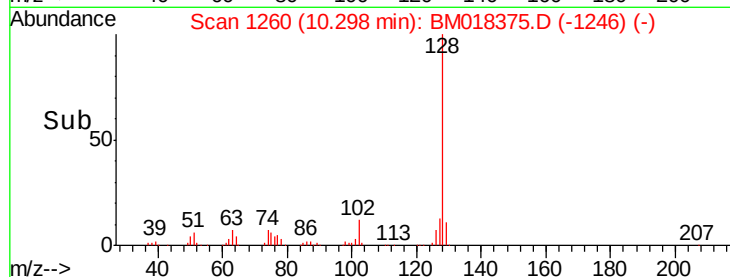
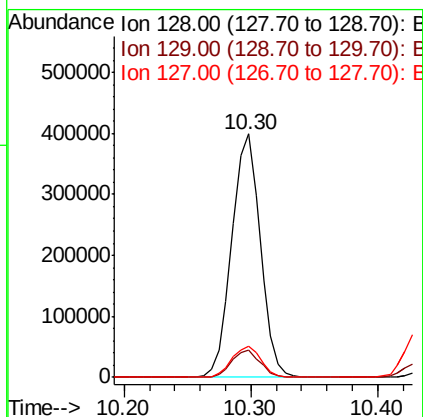
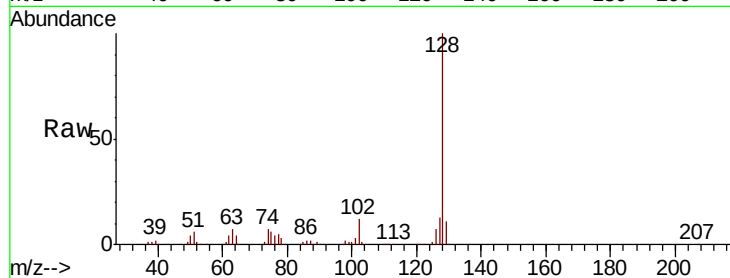




#31
Naphthalene
Concen: 29.174 ng
RT: 10.30 min Scan# 1260
Delta R.T. -0.02 min
Lab File: BM018375.D
Acq: 22 Dec 2018 02:07

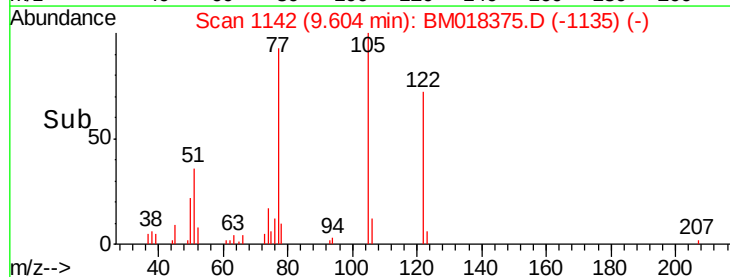
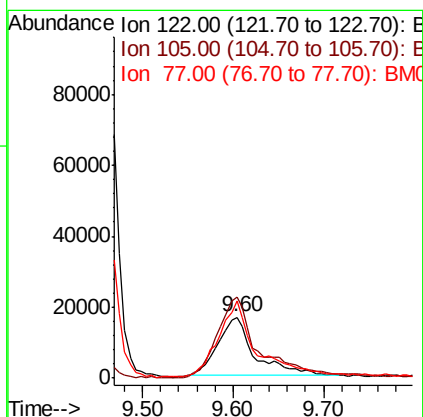
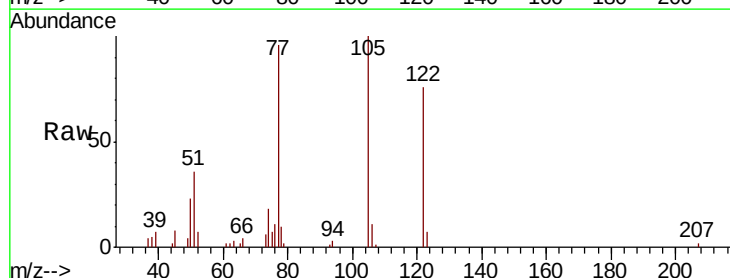
Instrument :
BNA_M
ClientSampleId :
SOIL-CUTTINGSMSD

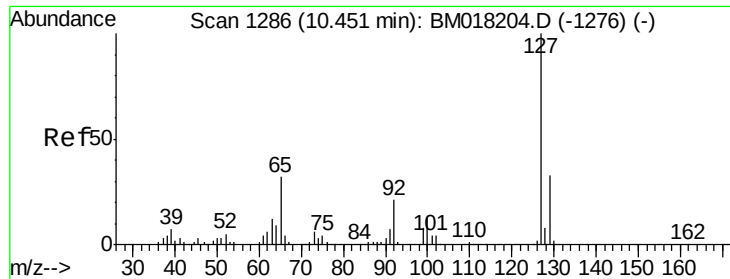
Tgt Ion:128 Resp: 620803
Ion Ratio Lower Upper
128 100
129 11.1 8.9 13.3
127 12.7 10.4 15.6



#32
Benzoic acid
Concen: 8.290 ng
RT: 9.60 min Scan# 1142
Delta R.T. -0.06 min
Lab File: BM018375.D
Acq: 22 Dec 2018 02:07

Tgt Ion:122 Resp: 47039
Ion Ratio Lower Upper
122 100
105 132.2 104.8 144.8
77 126.9 77.7 117.7#

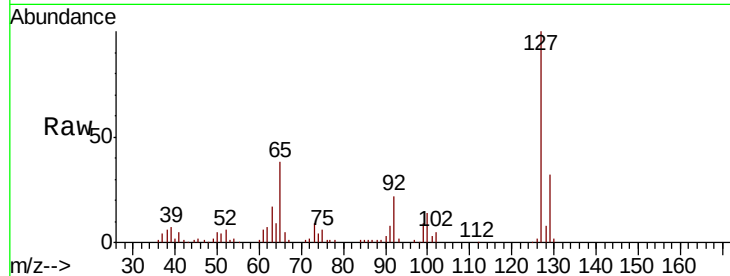




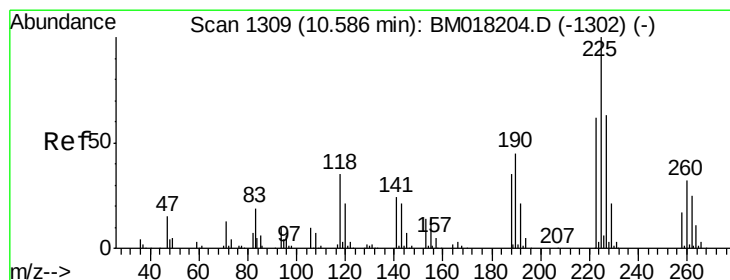
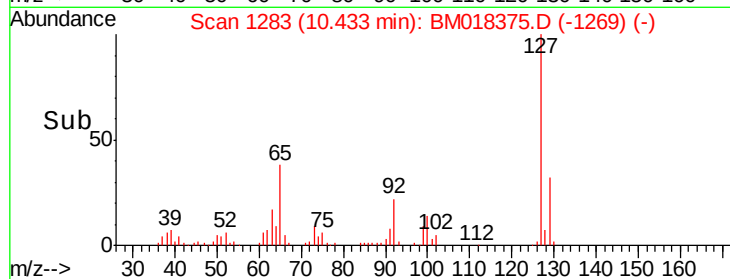
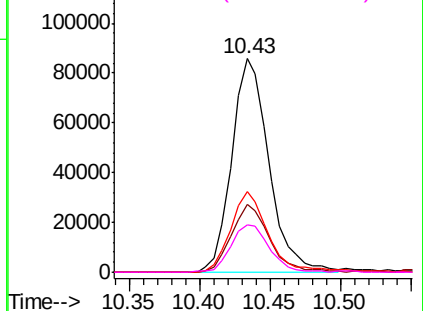
#33
4-Chloroaniline
Concen: 16.955 ng
RT: 10.43 min Scan# 1283
Delta R.T. -0.02 min
Lab File: BM018375.D
Acq: 22 Dec 2018 02:07

Instrument :
BNA_M
ClientSampleId :
SOIL-CUTTINGSMSD

Tgt Ion:	127	Resp:	158039
Ion	Ratio	Lower	Upper
127	100		
129	31.9	26.4	39.6
65	37.6	25.6	38.4
92	22.3	17.0	25.6

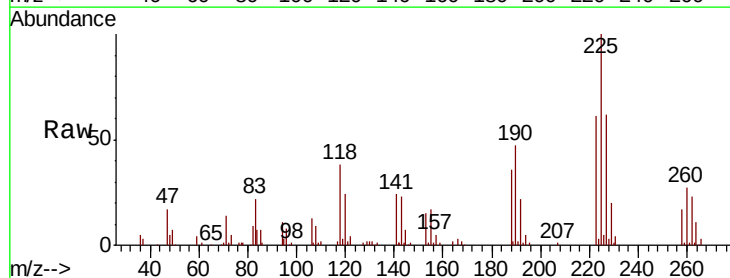


Abundance Ion 127.00 (126.70 to 127.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 65.00 (64.70 to 65.70): BM0
Ion 92.00 (91.70 to 92.70): BM0

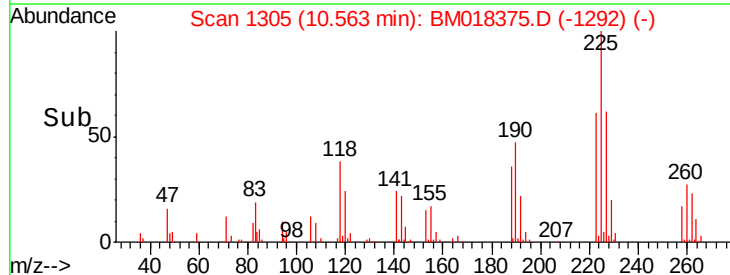
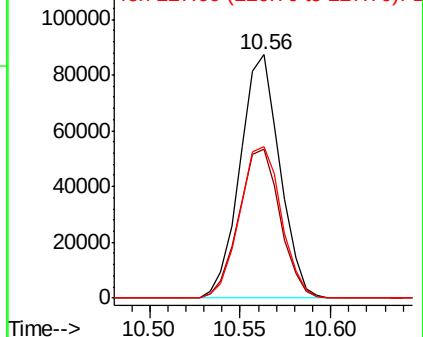


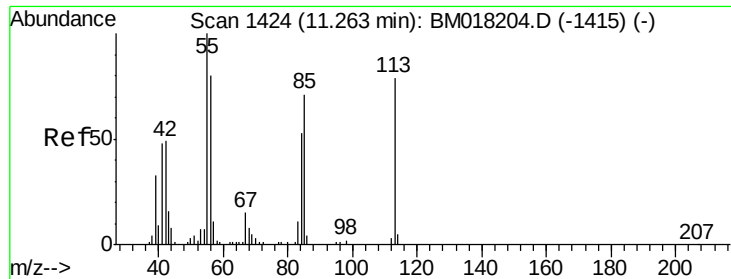
#34
Hexachlorobutadiene
Concen: 27.871 ng
RT: 10.56 min Scan# 1305
Delta R.T. -0.02 min
Lab File: BM018375.D
Acq: 22 Dec 2018 02:07

Tgt Ion:	225	Resp:	133216
Ion	Ratio	Lower	Upper
225	100		
223	61.1	49.8	74.6
227	62.2	50.2	75.4



Abundance Ion 225.00 (224.70 to 225.70): E
Ion 223.00 (222.70 to 223.70): E
Ion 227.00 (226.70 to 227.70): E

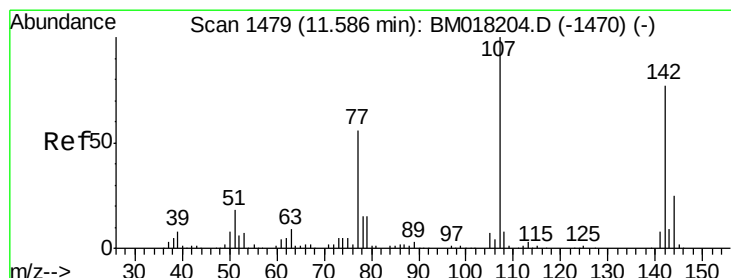
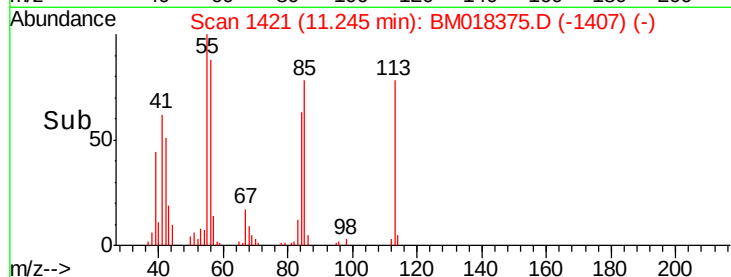
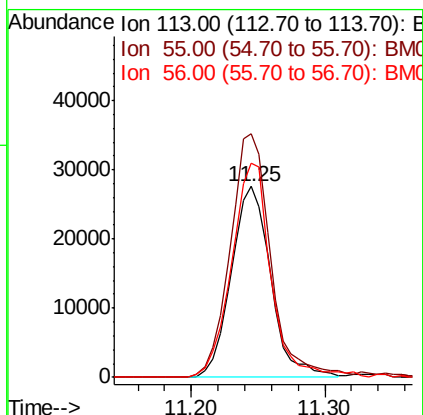
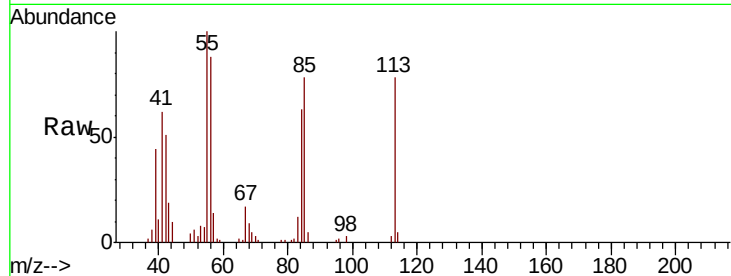




#35
Caprolactam
Concen: 22.409 ng
RT: 11.25 min Scan# 1421
Delta R.T. -0.02 min
Lab File: BM018375.D
Acq: 22 Dec 2018 02:07

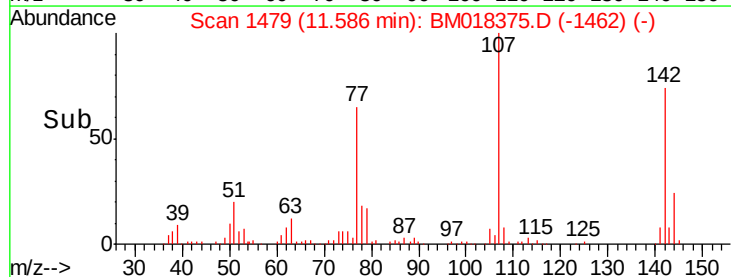
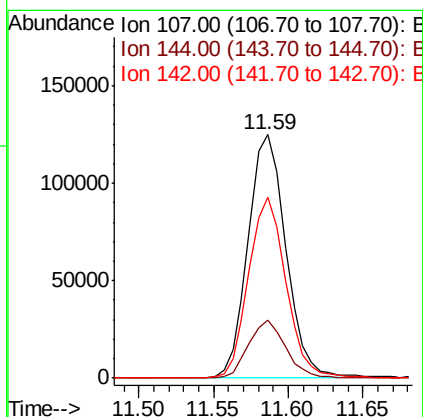
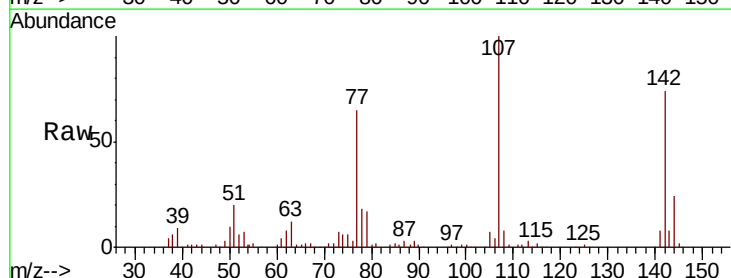
Instrument :
BNA_M
ClientSampleId :
SOIL-CUTTINGSMSD

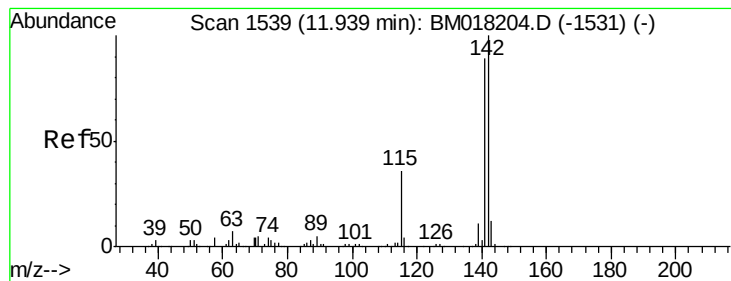
Tgt Ion:113 Resp: 56733
Ion Ratio Lower Upper
113 100
55 127.6 105.9 145.9
56 112.1 80.1 120.1



#36
4-Chloro-3-methylphenol
Concen: 27.433 ng
RT: 11.59 min Scan# 1479
Delta R.T. -0.00 min
Lab File: BM018375.D
Acq: 22 Dec 2018 02:07

Tgt Ion:107 Resp: 219010
Ion Ratio Lower Upper
107 100
144 23.9 20.1 30.1
142 74.3 61.7 92.5





#37

2-Methylnaphthalene

Concen: 29.538 ng

RT: 11.92 min Scan# 1536

Delta R.T. -0.02 min

Lab File: BM018375.D

Acq: 22 Dec 2018 02:07

Instrument :

BNA_M

ClientSampleId :

SOIL-CUTTINGSMSD

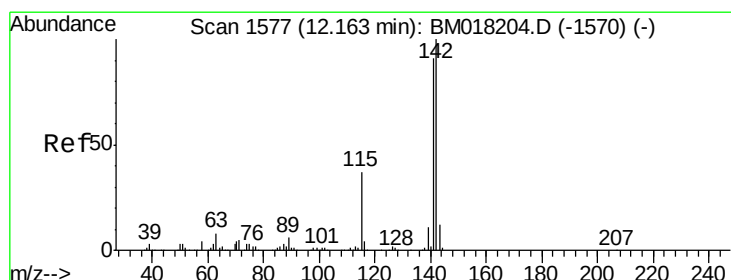
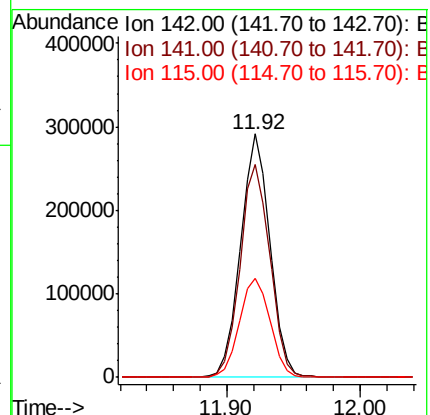
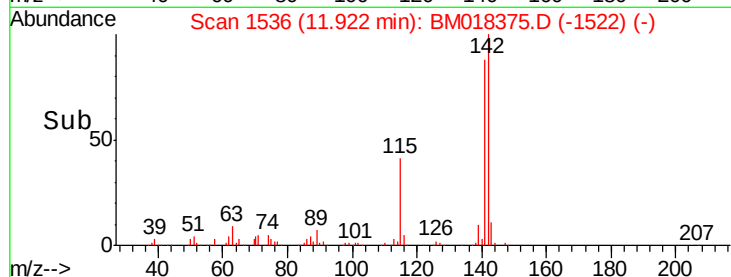
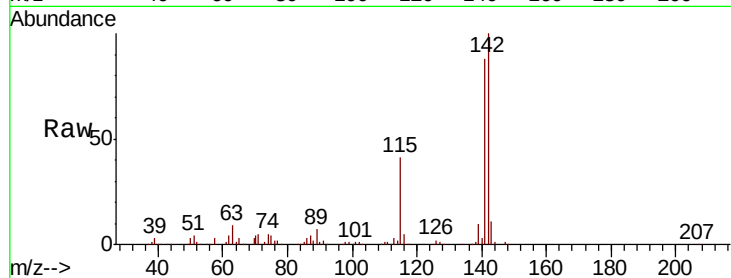
Tgt Ion:142 Resp: 443272

Ion Ratio Lower Upper

142 100

141 87.7 71.4 107.2

115 40.8 29.0 43.6



#38

1-Methylnaphthalene

Concen: 28.679 ng

RT: 12.15 min Scan# 1574

Delta R.T. -0.02 min

Lab File: BM018375.D

Acq: 22 Dec 2018 02:07

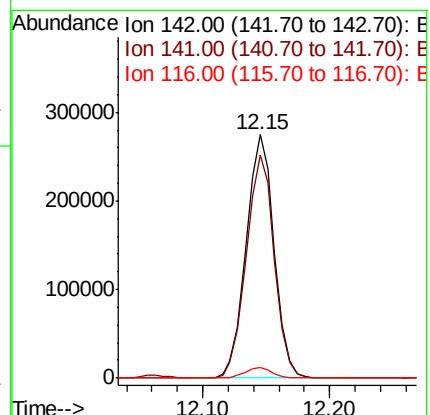
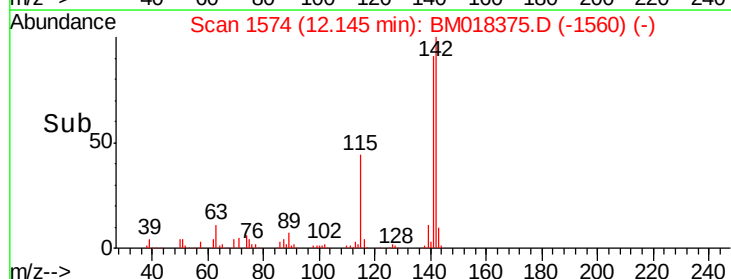
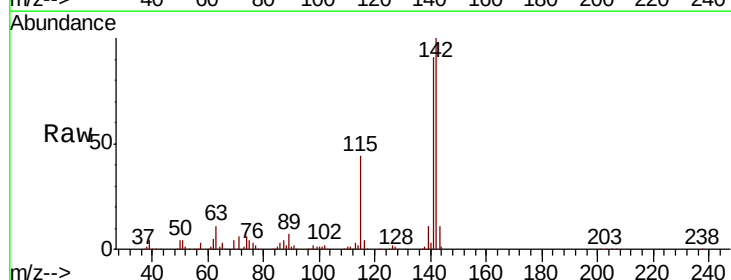
Tgt Ion:142 Resp: 419961

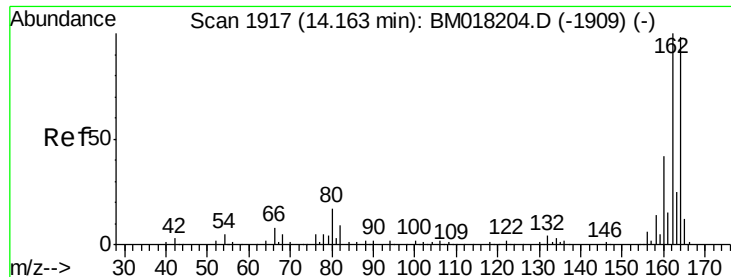
Ion Ratio Lower Upper

142 100

141 91.5 73.0 109.4

116 4.3 3.0 4.6





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.14 min Scan# 1914

Delta R.T. -0.02 min

Lab File: BM018375.D

Acq: 22 Dec 2018 02:07

Instrument :

BNA_M

ClientSampleId :

SOIL-CUTTINGSMSD

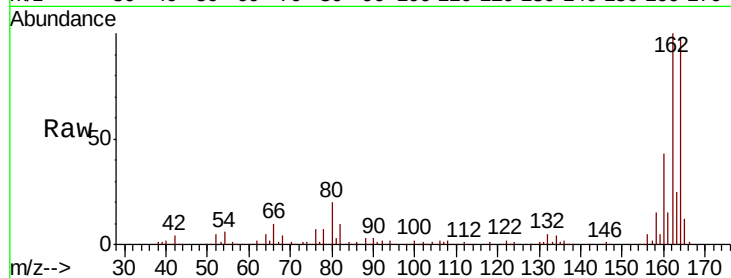
Tgt Ion:164 Resp: 236956

Ion Ratio Lower Upper

164 100

162 102.4 81.8 122.6

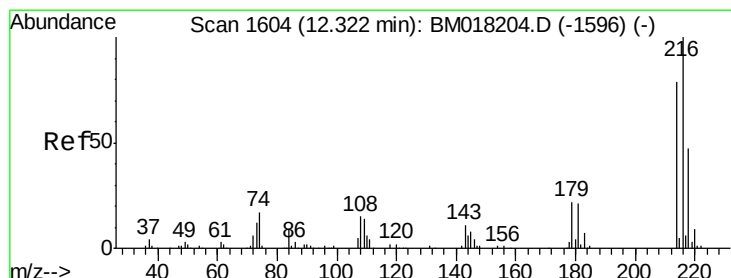
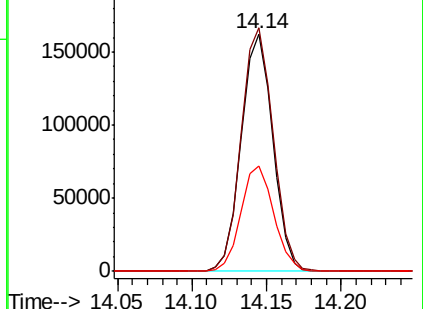
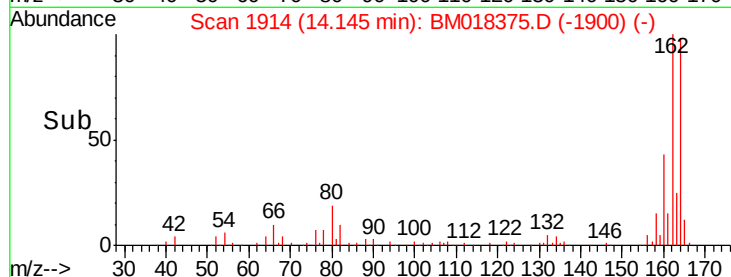
160 44.4 34.6 51.8



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#40

1,2,4,5-Tetrachlorobenzene

Concen: 28.957 ng

RT: 12.30 min Scan# 1600

Delta R.T. -0.02 min

Lab File: BM018375.D

Acq: 22 Dec 2018 02:07

Tgt Ion:216 Resp: 235948

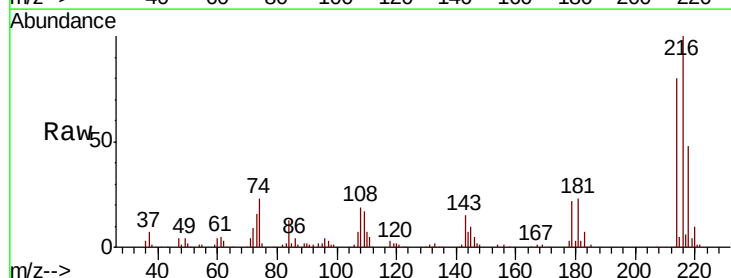
Ion Ratio Lower Upper

216 100

214 80.0 63.4 95.0

179 22.4 17.2 25.8

108 19.3 14.6 21.8

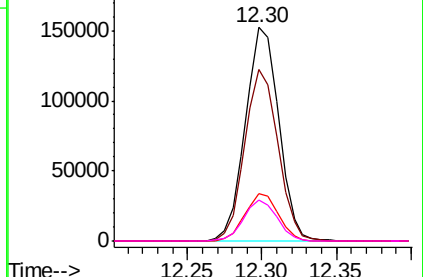
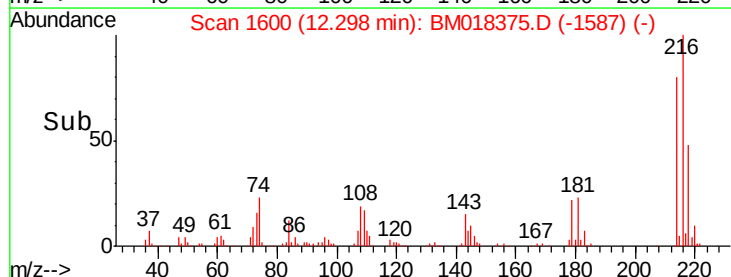


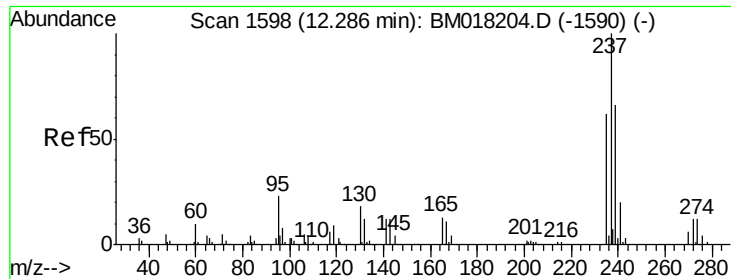
Abundance Ion 216.00 (215.70 to 216.70): E

Ion 214.00 (213.70 to 214.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 108.00 (107.70 to 108.70): E

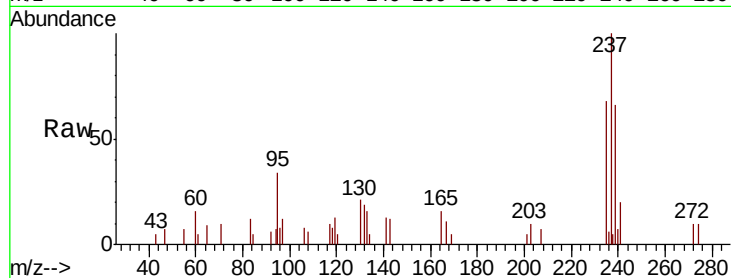




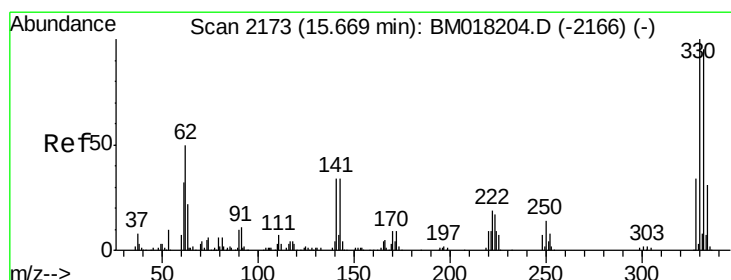
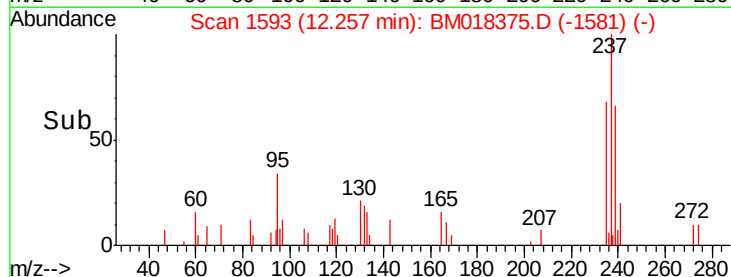
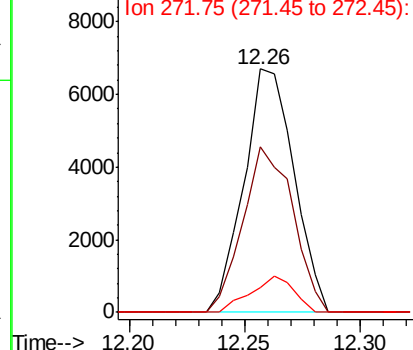
#41
Hexachlorocyclopentadiene
Concen: 10.648 ng
RT: 12.26 min Scan# 1593
Delta R.T. -0.03 min
Lab File: BM018375.D
Acq: 22 Dec 2018 02:07

Instrument :
BNA_M
ClientSampleId :
SOIL-CUTTINGSMSD

Tgt Ion: 237 Resp: 10154
Ion Ratio Lower Upper
237 100
235 68.2 42.1 82.1
272 10.4 0.0 32.1

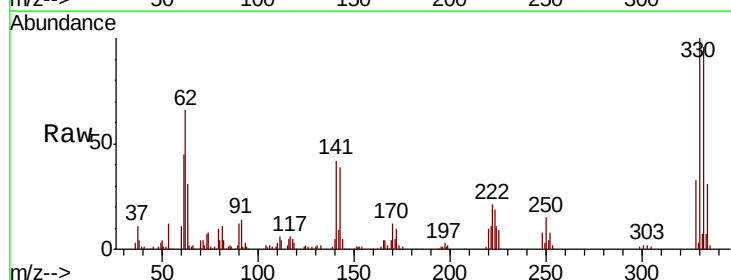


Abundance Ion 236.80 (236.50 to 237.50): E
Ion 234.90 (234.60 to 235.60): E
Ion 271.75 (271.45 to 272.45): E

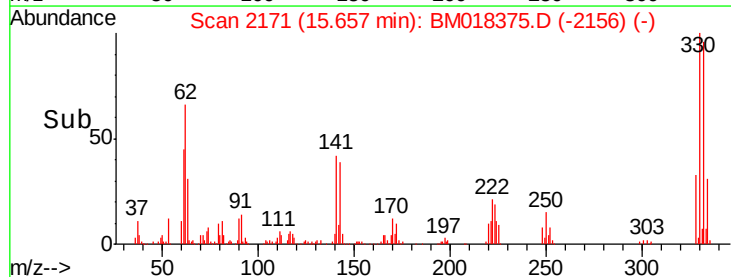
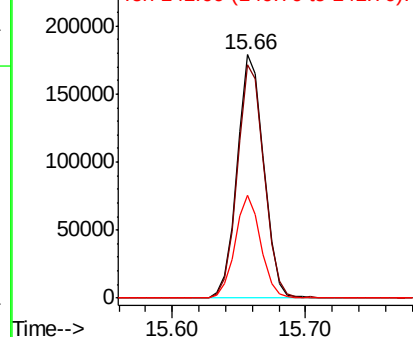


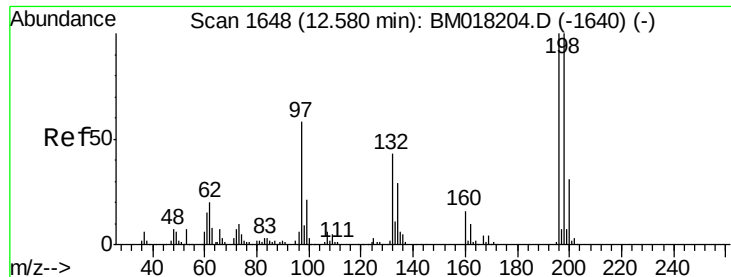
#42
2,4,6-Tribromophenol
Concen: 71.414 ng
RT: 15.66 min Scan# 2171
Delta R.T. -0.01 min
Lab File: BM018375.D
Acq: 22 Dec 2018 02:07

Tgt Ion: 330 Resp: 248367
Ion Ratio Lower Upper
330 100
332 96.4 78.6 118.0
141 41.1 27.1 40.7#



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

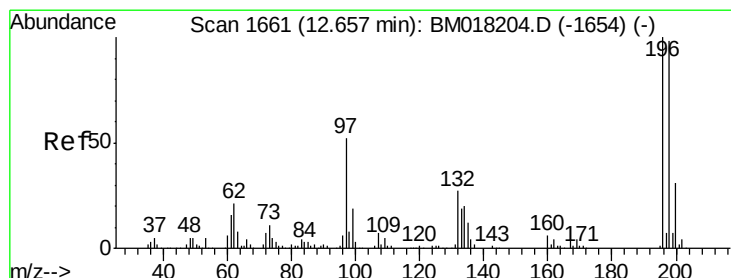
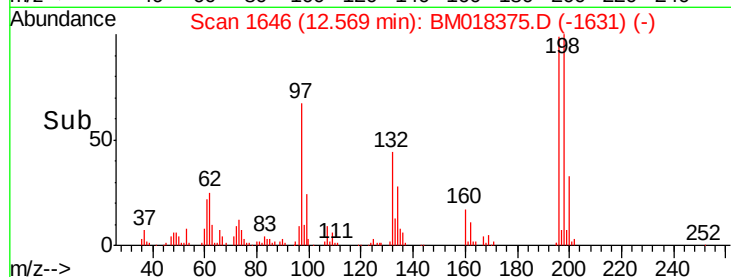
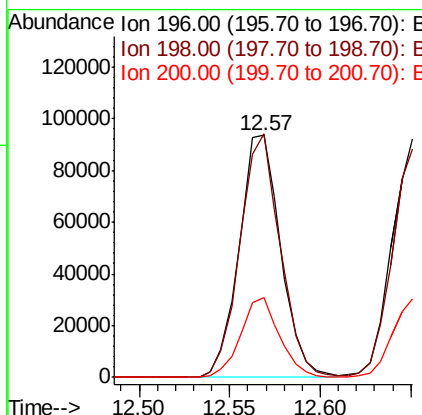
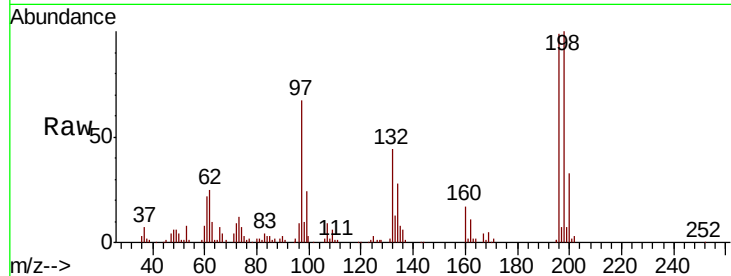




#43
 2,4,6-Trichlorophenol
 Concen: 28.454 ng
 RT: 12.57 min Scan# 1646
 Delta R.T. -0.01 min
 Lab File: BM018375.D
 Acq: 22 Dec 2018 02:07

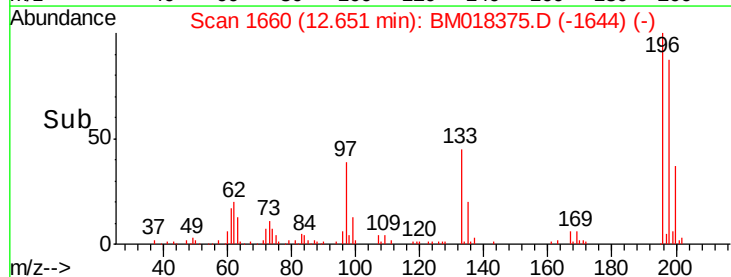
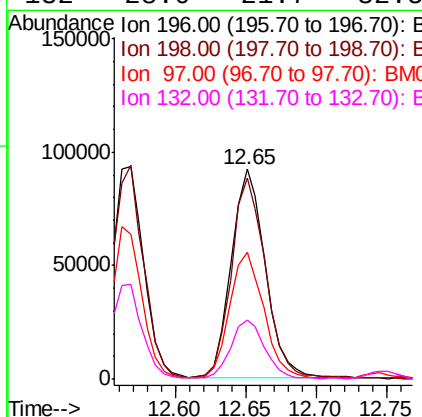
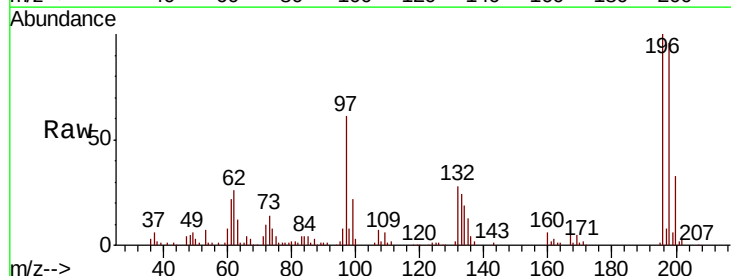
Instrument :
 BNA_M
 ClientSampleId :
 SOIL-CUTTINGSMSD

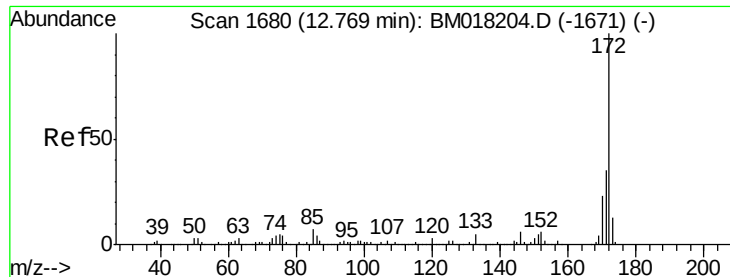
Tgt Ion:	196	Resp:	149123
Ion	Ratio	Lower	Upper
196	100		
198	100.7	80.1	120.1
200	33.1	24.9	37.3



#44
 2,4,5-Trichlorophenol
 Concen: 27.712 ng
 RT: 12.65 min Scan# 1660
 Delta R.T. -0.01 min
 Lab File: BM018375.D
 Acq: 22 Dec 2018 02:07

Tgt Ion:	196	Resp:	154182
Ion	Ratio	Lower	Upper
196	100		
198	95.8	78.5	117.7
97	60.6	41.9	62.9
132	28.0	21.7	32.5

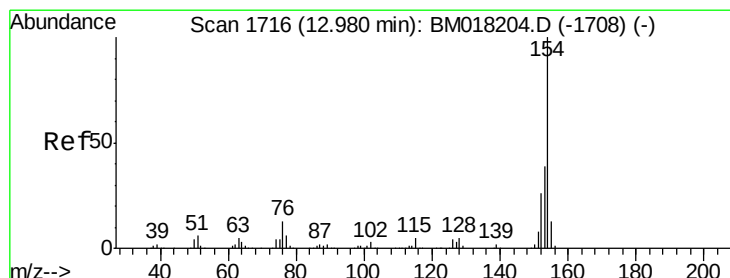
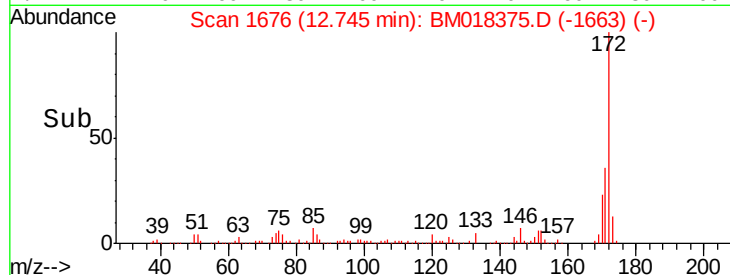
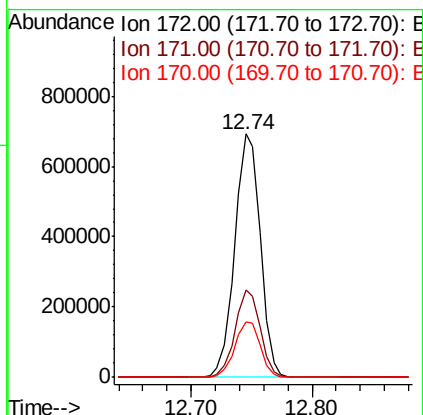
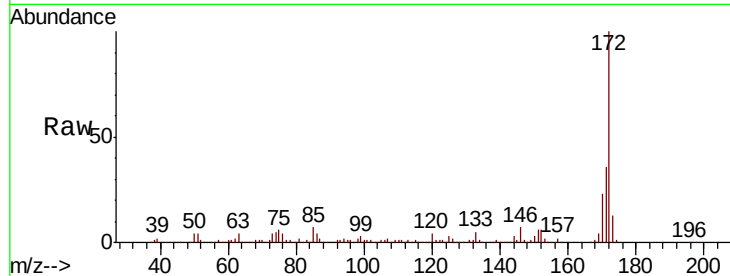




#45
2-Fluorobiphenyl
Concen: 55.878 ng
RT: 12.74 min Scan# 1676
Delta R.T. -0.02 min
Lab File: BM018375.D
Acq: 22 Dec 2018 02:07

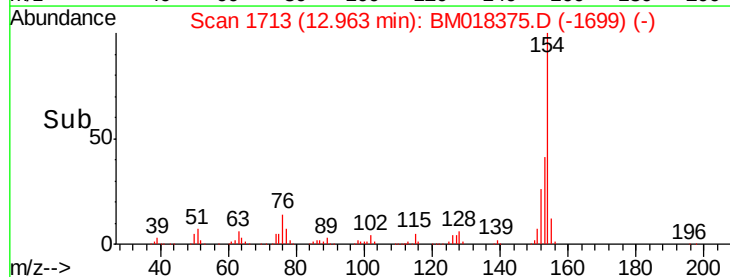
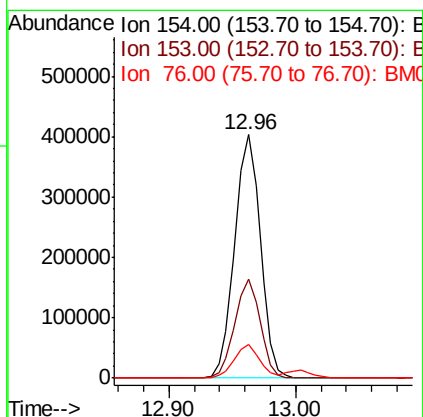
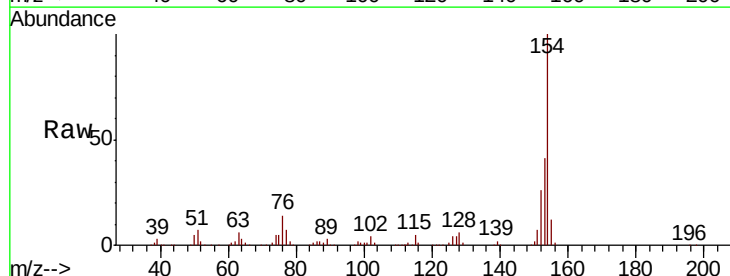
Instrument :
BNA_M
ClientSampleId :
SOIL-CUTTINGSMSD

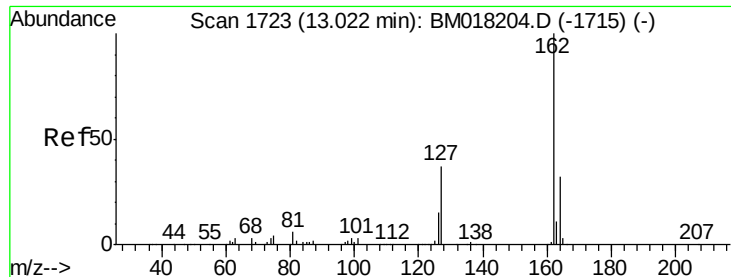
Tgt Ion:172 Resp: 1022250
Ion Ratio Lower Upper
172 100
171 35.8 28.3 42.5
170 23.0 18.1 27.1



#46
1,1'-Biphenyl
Concen: 26.581 ng
RT: 12.96 min Scan# 1713
Delta R.T. -0.02 min
Lab File: BM018375.D
Acq: 22 Dec 2018 02:07

Tgt Ion:154 Resp: 566646
Ion Ratio Lower Upper
154 100
153 40.8 19.5 59.5
76 13.6 0.0 33.1

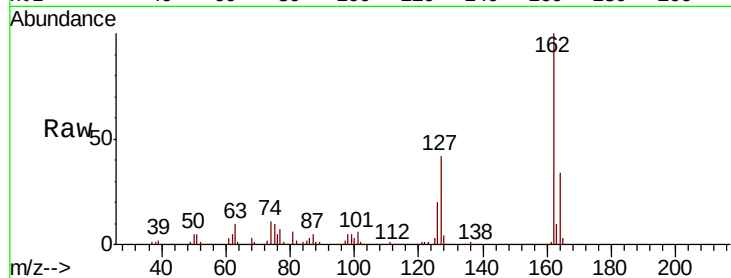




#47
2-Chloronaphthalene
Concen: 27.934 ng
RT: 13.00 min Scan# 1720
Delta R.T. -0.02 min
Lab File: BM018375.D
Acq: 22 Dec 2018 02:07

Instrument :
BNA_M
ClientSampleId :
SOIL-CUTTINGSMSD

Tgt Ion	Ratio	Lower	Upper
162	100		
127	42.1	31.8	47.8
164	33.7	25.9	38.9

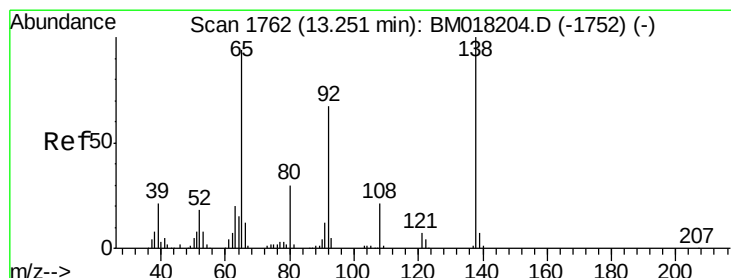
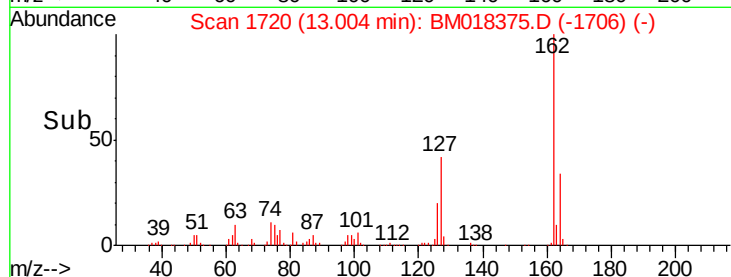
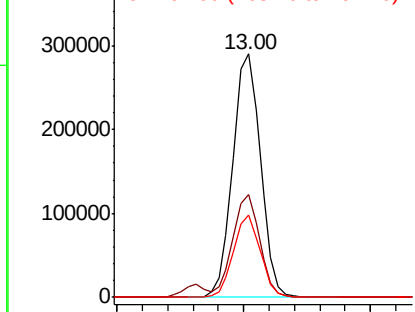


Abundance

Ion 162.00 (161.70 to 162.70): E

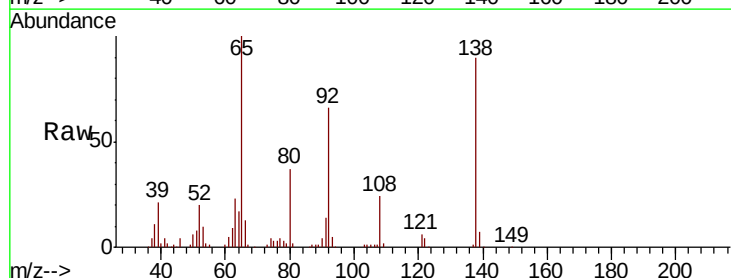
Ion 127.00 (126.70 to 127.70): E

Ion 164.00 (163.70 to 164.70): E



#48
2-Nitroaniline
Concen: 35.146 ng
RT: 13.24 min Scan# 1760
Delta R.T. -0.01 min
Lab File: BM018375.D
Acq: 22 Dec 2018 02:07

Tgt Ion	Ratio	Lower	Upper
65	100		
92	66.3	56.8	85.2
138	90.3	85.1	127.7

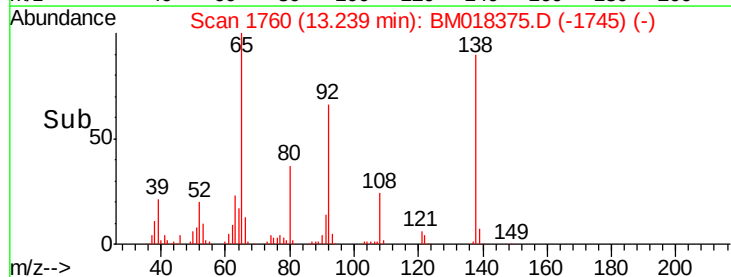
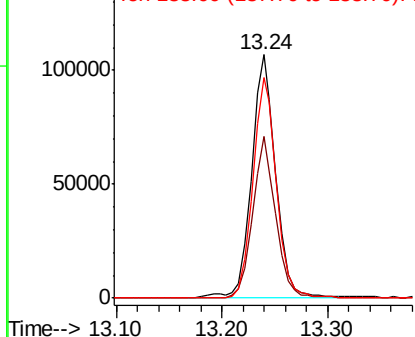


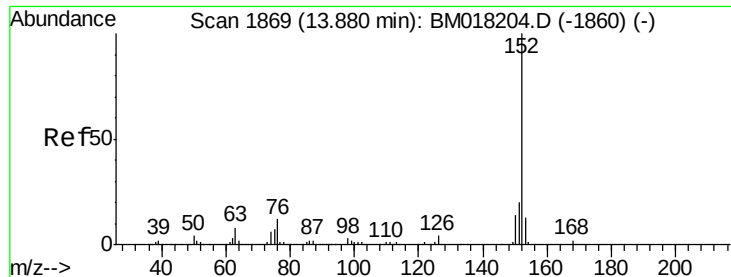
Abundance

Ion 65.00 (64.70 to 65.70): BM0

Ion 92.00 (91.70 to 92.70): BM0

Ion 138.00 (137.70 to 138.70): E





#49

Acenaphthylene

Concen: 28.956 ng

RT: 13.86 min Scan# 1866

Delta R.T. -0.02 min

Lab File: BM018375.D

Acq: 22 Dec 2018 02:07

Instrument :

BNA_M

ClientSampleId :

SOIL-CUTTINGSMSD

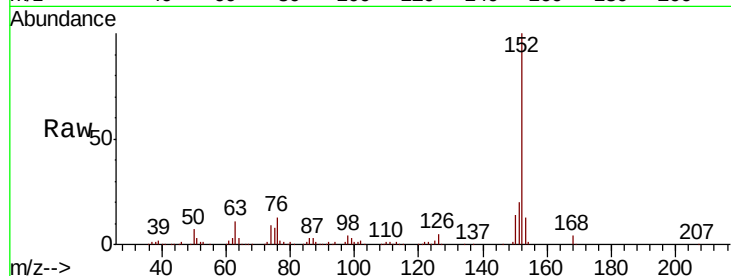
Tgt Ion:152 Resp: 684656

Ion Ratio Lower Upper

152 100

151 19.5 16.0 24.0

153 13.0 10.2 15.2

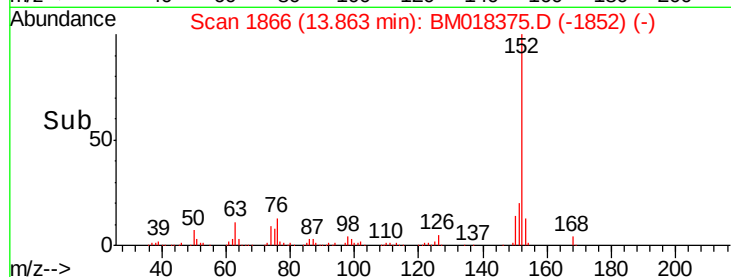


Abundance Ion 152.00 (151.70 to 152.70): E

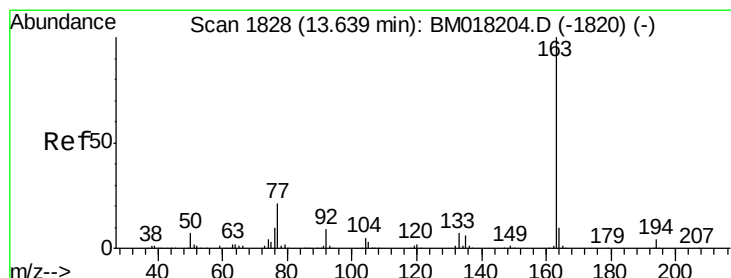
Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E

13.86



Time-->



#50

Dimethylphthalate

Concen: 33.323 ng

RT: 13.62 min Scan# 1824

Delta R.T. -0.02 min

Lab File: BM018375.D

Acq: 22 Dec 2018 02:07

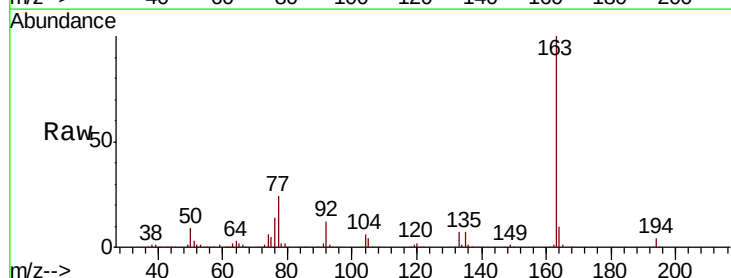
Tgt Ion:163 Resp: 656447

Ion Ratio Lower Upper

163 100

194 4.0 3.1 4.7

164 10.3 7.9 11.9

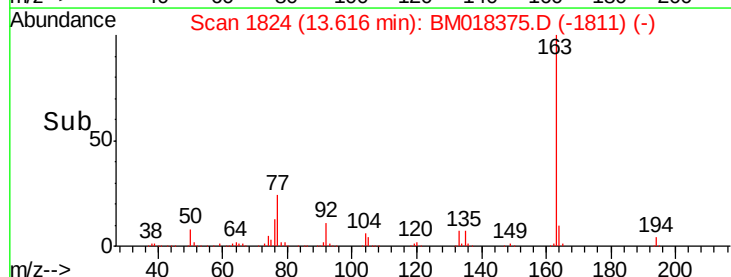


Abundance Ion 163.00 (162.70 to 163.70): E

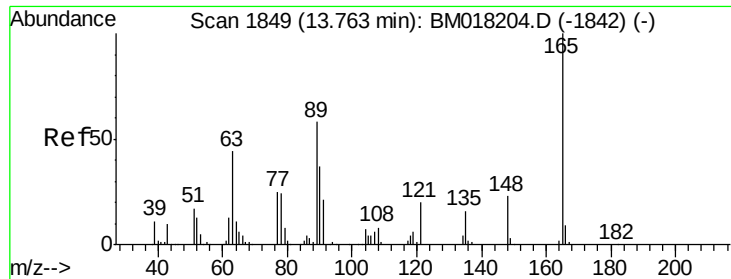
Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E

13.62



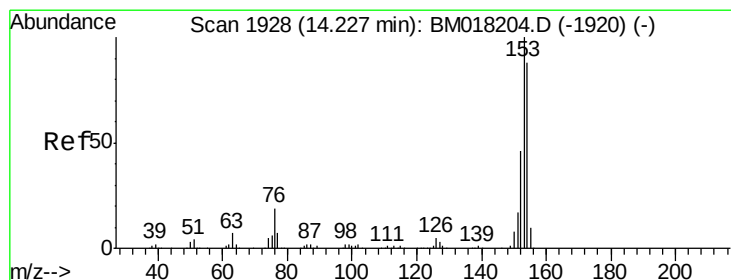
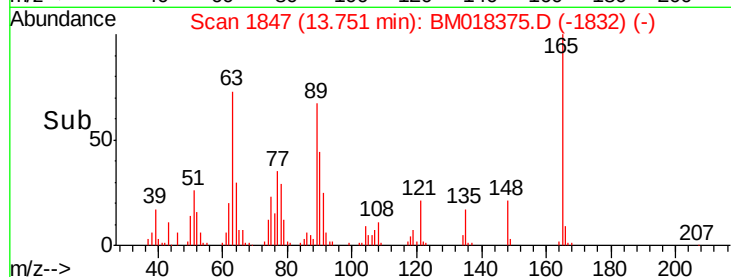
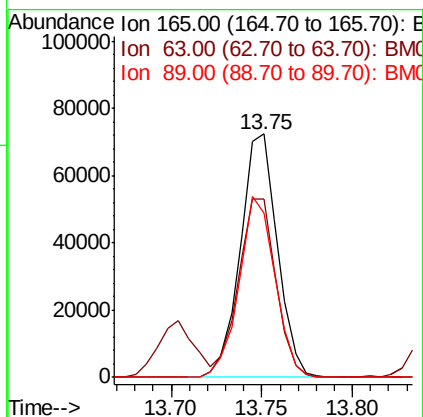
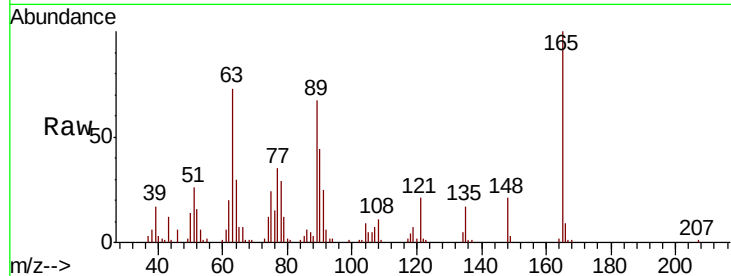
Time-->



#51
2,6-Dinitrotoluene
Concen: 23.690 ng
RT: 13.75 min Scan# 1847
Delta R.T. -0.01 min
Lab File: BM018375.D
Acq: 22 Dec 2018 02:07

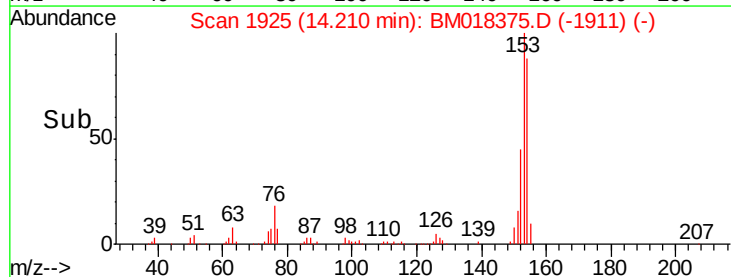
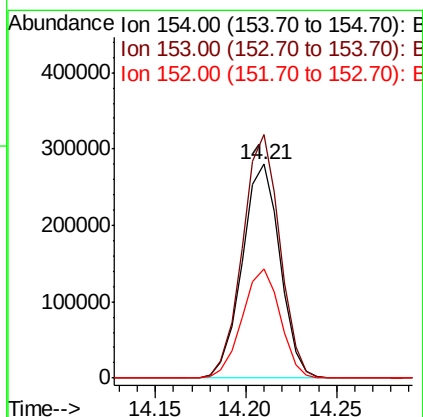
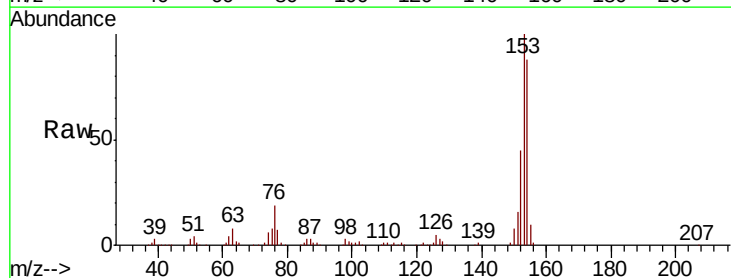
Instrument :
BNA_M
ClientSampleId :
SOIL-CUTTINGSMSD

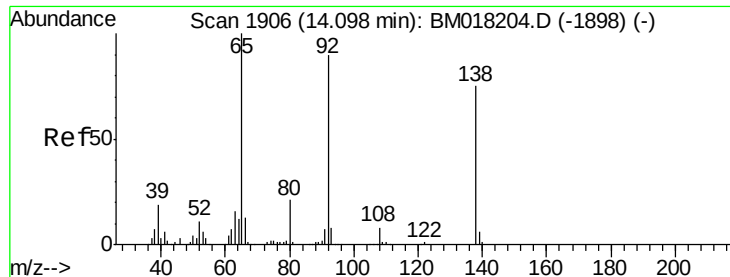
Tgt Ion:165 Resp: 102594
Ion Ratio Lower Upper
165 100
63 73.4 46.6 69.8#
89 67.4 46.3 69.5



#52
Acenaphthene
Concen: 28.107 ng
RT: 14.21 min Scan# 1925
Delta R.T. -0.02 min
Lab File: BM018375.D
Acq: 22 Dec 2018 02:07

Tgt Ion:154 Resp: 406142
Ion Ratio Lower Upper
154 100
153 113.9 90.4 135.6
152 51.2 41.2 61.8

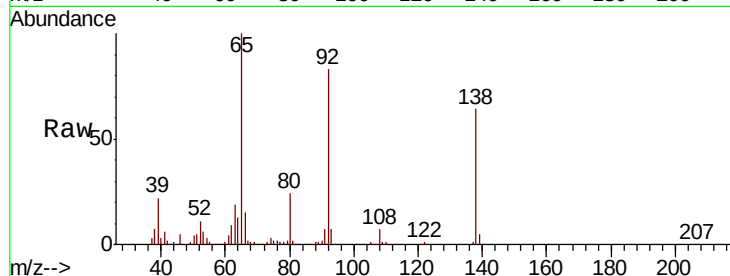




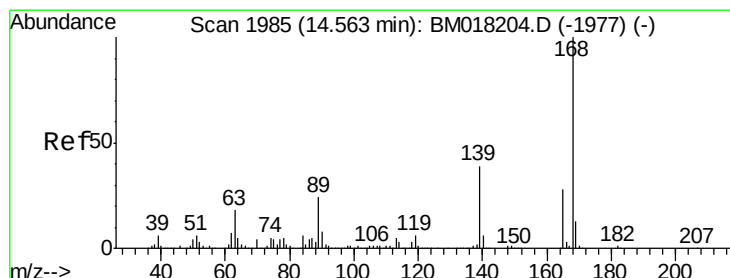
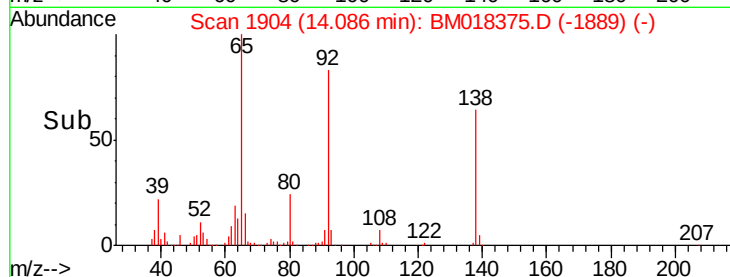
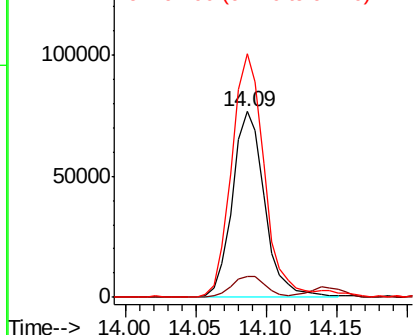
#53
3-Nitroaniline
Concen: 26.920 ng
RT: 14.09 min Scan# 1904
Delta R.T. -0.01 min
Lab File: BM018375.D
Acq: 22 Dec 2018 02:07

Instrument :
BNA_M
ClientSampleId :
SOIL-CUTTINGSMSD

Tgt Ion:138 Resp: 122684
Ion Ratio Lower Upper
138 100
108 11.2 8.4 12.6
92 131.1 94.9 142.3

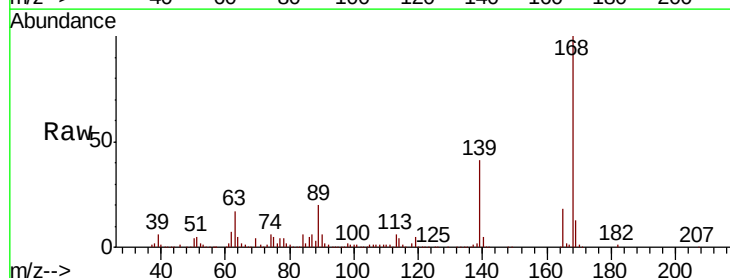


Abundance Ion 138.00 (137.70 to 138.70): E
Ion 108.00 (107.70 to 108.70): E
Ion 92.00 (91.70 to 92.70): BM

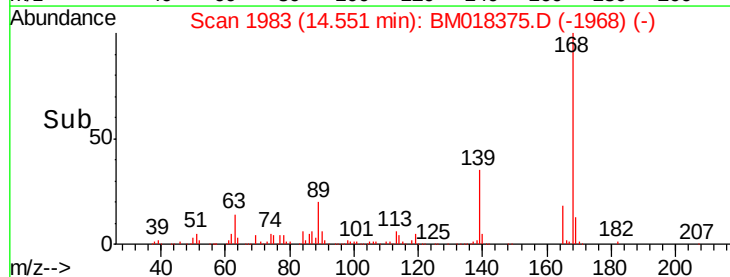
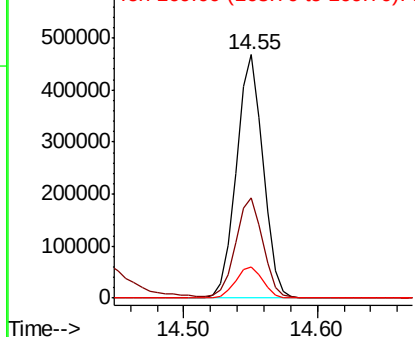


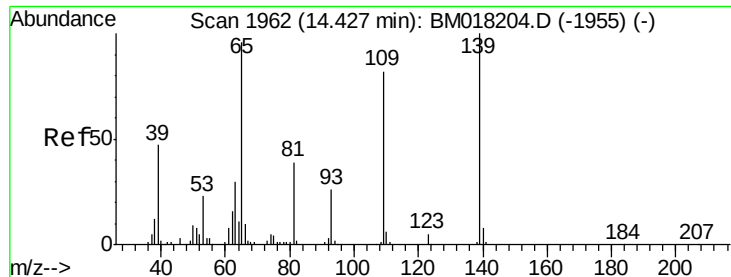
#55
Dibenzofuran
Concen: 27.855 ng
RT: 14.55 min Scan# 1983
Delta R.T. -0.01 min
Lab File: BM018375.D
Acq: 22 Dec 2018 02:07

Tgt Ion:168 Resp: 646745
Ion Ratio Lower Upper
168 100
139 41.0 31.2 46.8
169 13.0 10.4 15.6



Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E

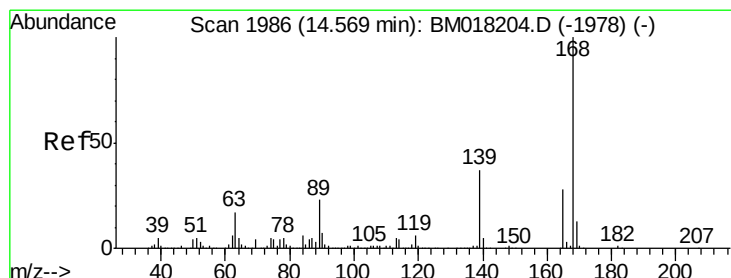
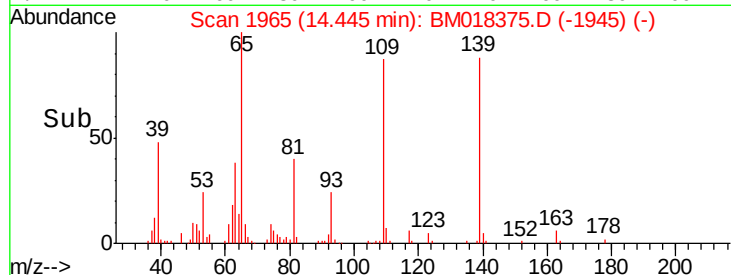
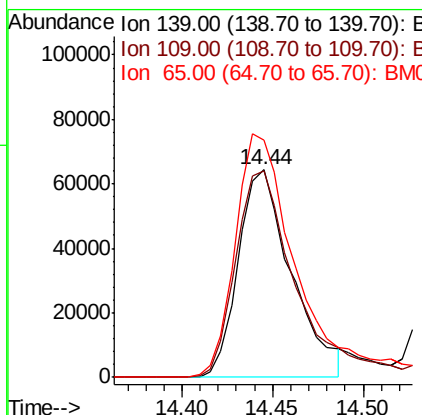
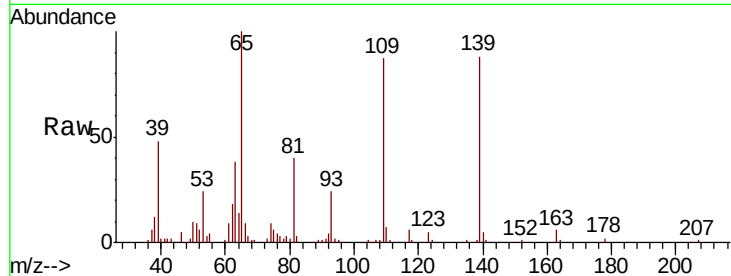




#56
4-Nitrophenol
Concen: 38.008 ng
RT: 14.44 min Scan# 1965
Delta R.T. 0.02 min
Lab File: BM018375.D
Acq: 22 Dec 2018 02:07

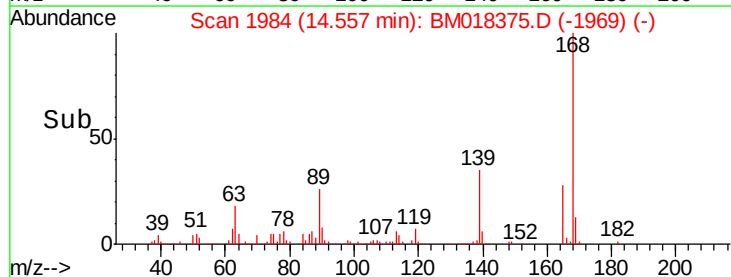
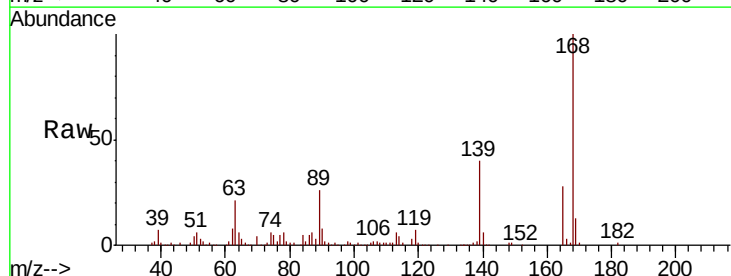
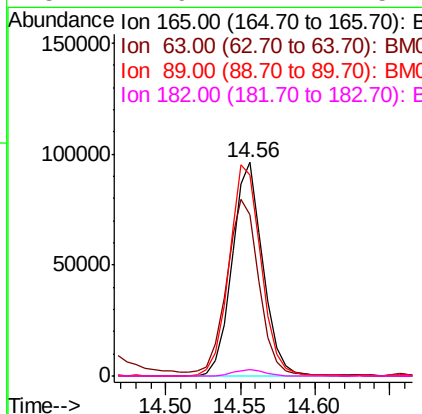
Instrument :
BNA_M
ClientSampleId :
SOIL-CUTTINGSMSD

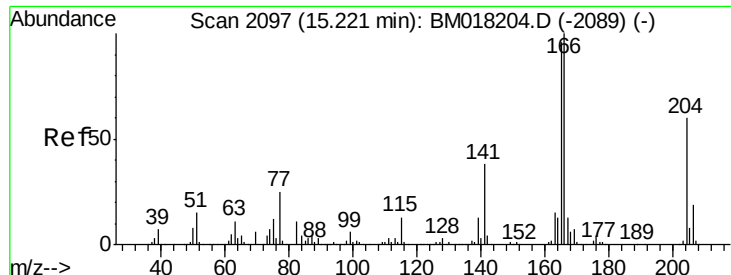
Tgt Ion:139 Resp: 131329
Ion Ratio Lower Upper
139 100
109 99.3 62.3 102.3
65 114.3 76.4 116.4



#57
2,4-Dinitrotoluene
Concen: 22.980 ng
RT: 14.56 min Scan# 1984
Delta R.T. -0.01 min
Lab File: BM018375.D
Acq: 22 Dec 2018 02:07

Tgt Ion:165 Resp: 137561
Ion Ratio Lower Upper
165 100
63 75.8 47.2 70.8#
89 93.9 65.8 98.8
182 2.9 2.2 3.4





#58

Fluorene

Concen: 29.232 ng

RT: 15.20 min Scan# 2094

Delta R.T. -0.02 min

Lab File: BM018375.D

Acq: 22 Dec 2018 02:07

Instrument :

BNA_M

ClientSampleId :

SOIL-CUTTINGSMSD

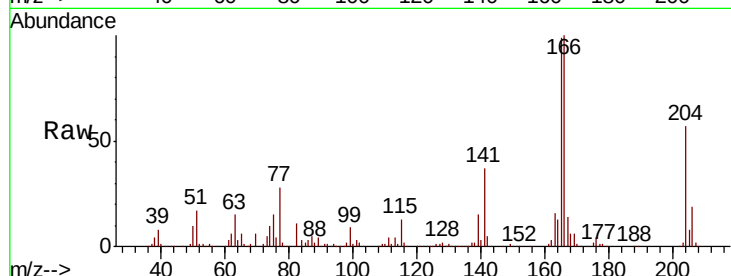
Tgt Ion:166 Resp: 524214

Ion Ratio Lower Upper

166 100

165 98.5 76.9 115.3

167 14.0 10.5 15.7

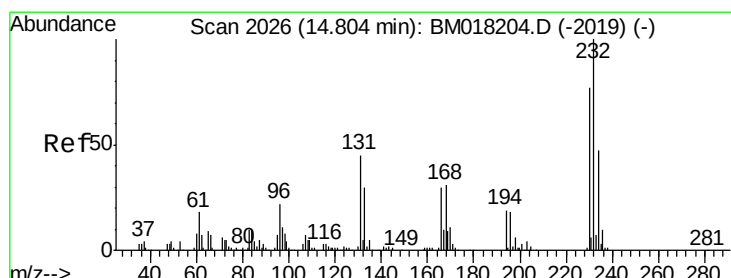
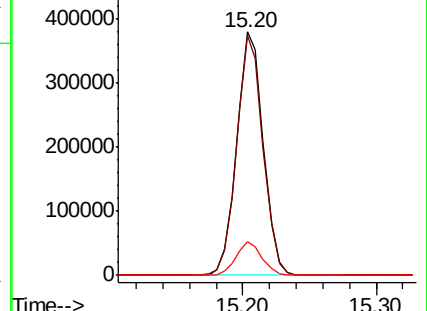
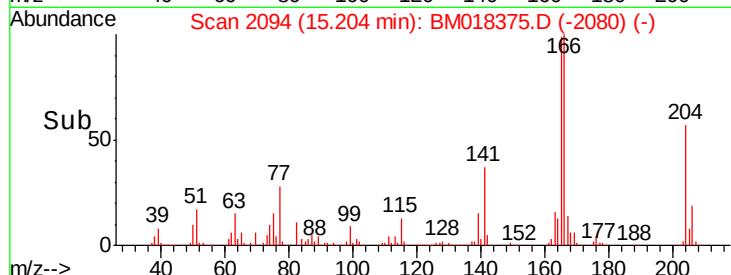


Abundance

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: 20.507 ng

RT: 14.71 min Scan# 2010

Delta R.T. -0.09 min

Lab File: BM018375.D

Acq: 22 Dec 2018 02:07

Tgt Ion:232 Resp: 102753

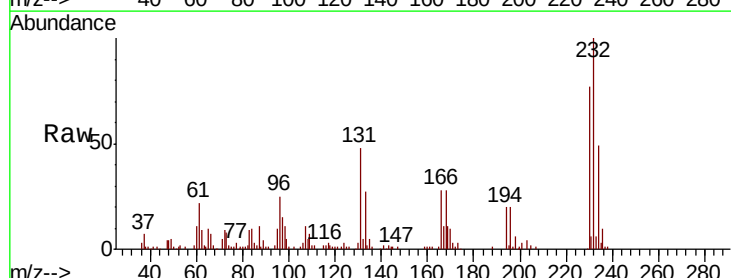
Ion Ratio Lower Upper

232 100

131 44.2 36.2 54.2

130 2.3 1.8 2.6

166 28.6 24.8 37.2



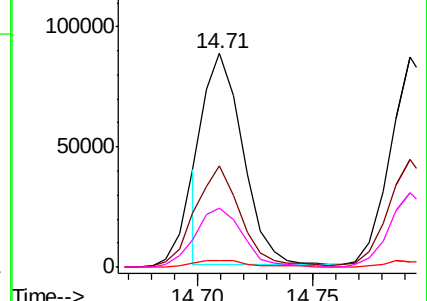
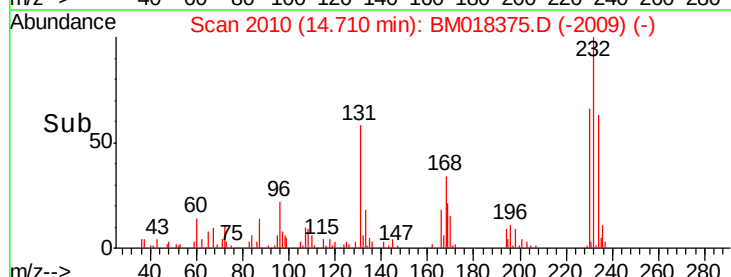
Abundance

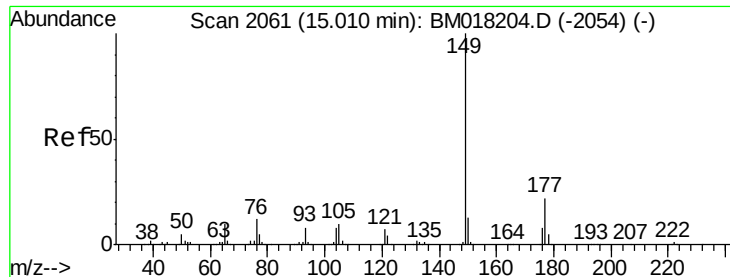
Ion 232.00 (231.70 to 232.70): E

Ion 131.00 (130.70 to 131.70): E

Ion 130.00 (129.70 to 130.70): E

Ion 166.00 (165.70 to 166.70): E

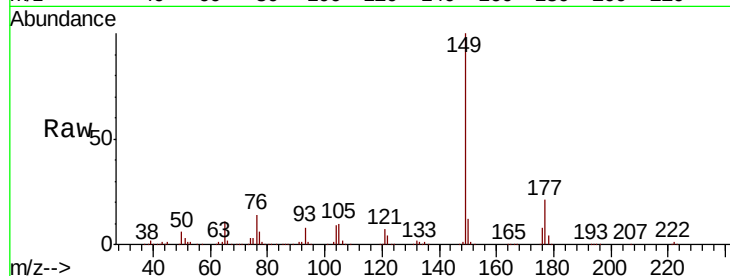




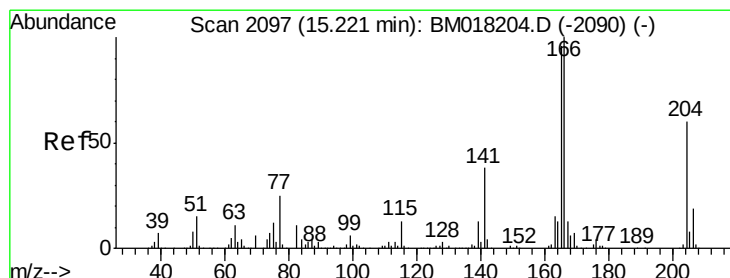
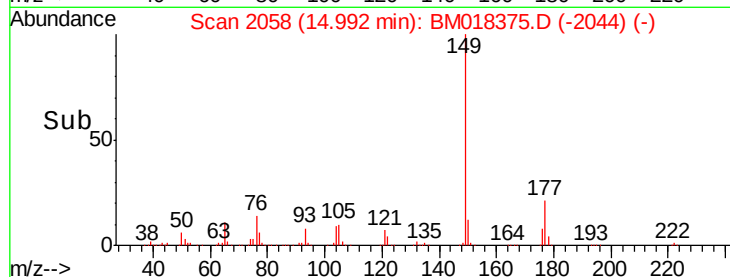
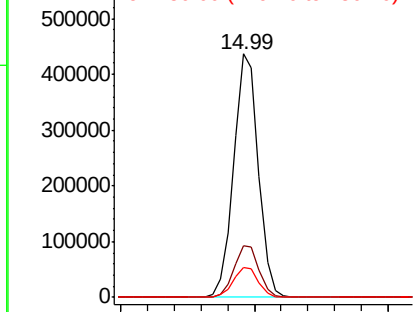
#60
Diethylphthalate
Concen: 26.380 ng
RT: 14.99 min Scan# 2058
Delta R.T. -0.02 min
Lab File: BM018375.D
Acq: 22 Dec 2018 02:07

Instrument :
BNA_M
ClientSampleId :
SOIL-CUTTINGSMSD

Tgt Ion:149 Resp: 560835
Ion Ratio Lower Upper
149 100
177 20.9 17.8 26.8
150 12.4 10.3 15.5

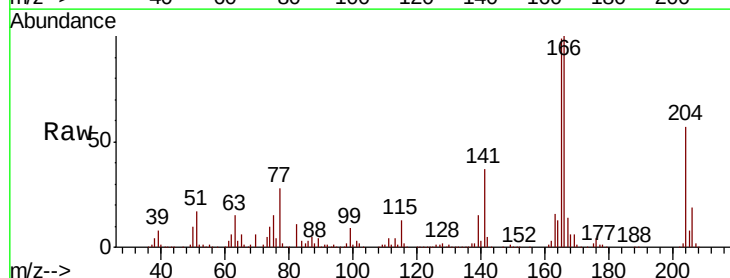


Abundance Ion 149.00 (148.70 to 149.70): E
Ion 177.00 (176.70 to 177.70): E
Ion 150.00 (149.70 to 150.70): E

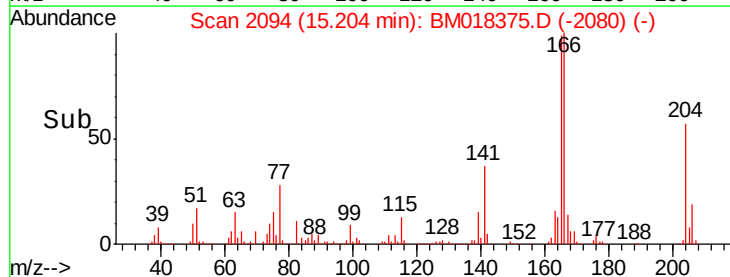
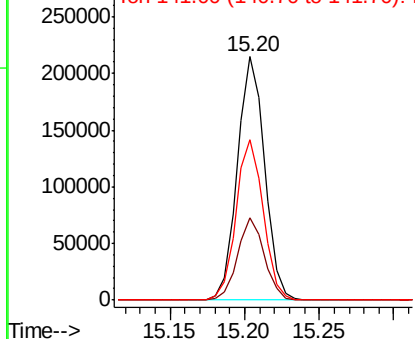


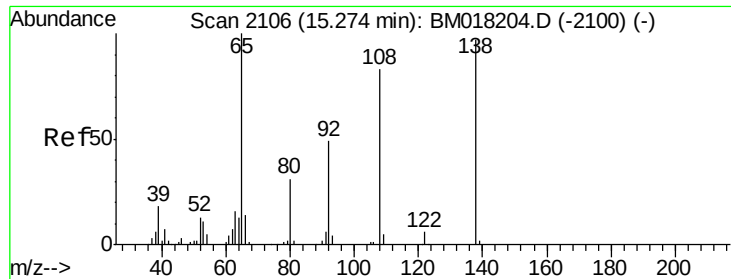
#61
4-Chlorophenyl-phenylether
Concen: 26.950 ng
RT: 15.20 min Scan# 2094
Delta R.T. -0.02 min
Lab File: BM018375.D
Acq: 22 Dec 2018 02:07

Tgt Ion:204 Resp: 273323
Ion Ratio Lower Upper
204 100
206 34.0 25.8 38.6
141 65.7 50.2 75.4



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: 27.358 ng

RT: 15.26 min Scan# 2104

Delta R.T. -0.01 min

Lab File: BM018375.D

Acq: 22 Dec 2018 02:07

Instrument :

BNA_M

ClientSampleId :

SOIL-CUTTINGSMSD

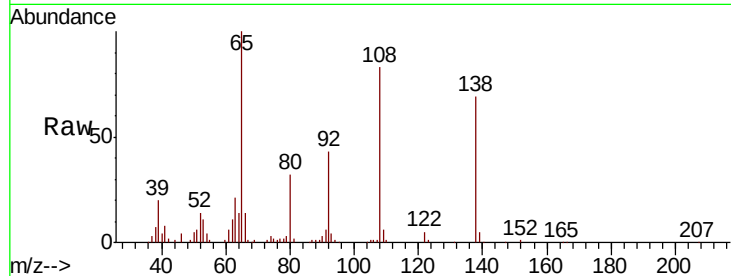
Tgt Ion:138 Resp: 118305

Ion Ratio Lower Upper

138 100

92 62.4 31.1 71.1

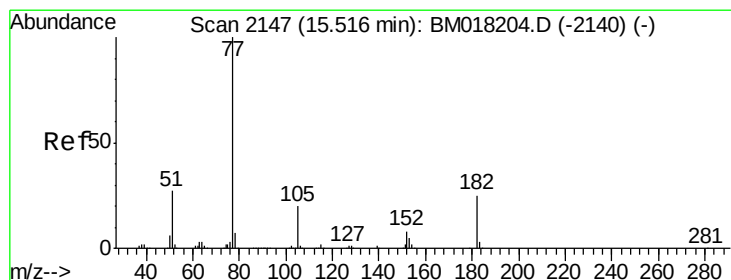
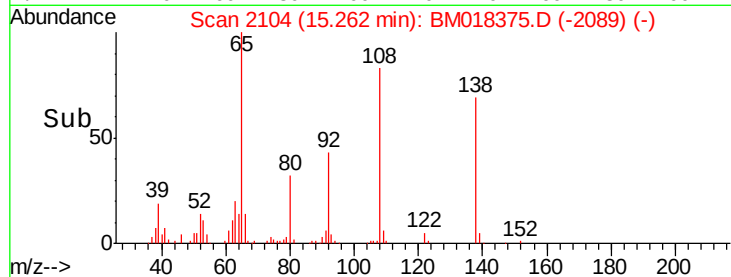
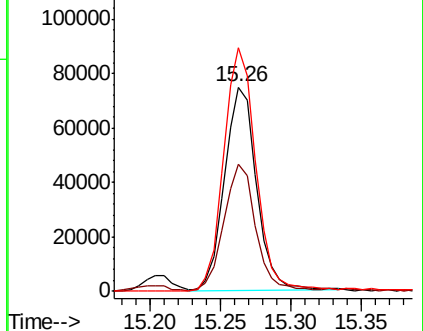
108 119.2 65.0 105.0#



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: 30.669 ng

RT: 15.50 min Scan# 2144

Delta R.T. -0.02 min

Lab File: BM018375.D

Acq: 22 Dec 2018 02:07

Tgt Ion: 77 Resp: 594507

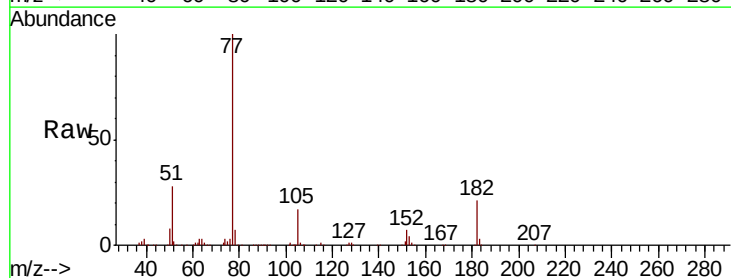
Ion Ratio Lower Upper

77 100

182 20.7 4.6 44.6

105 16.8 0.2 40.2

51 28.4 7.0 47.0

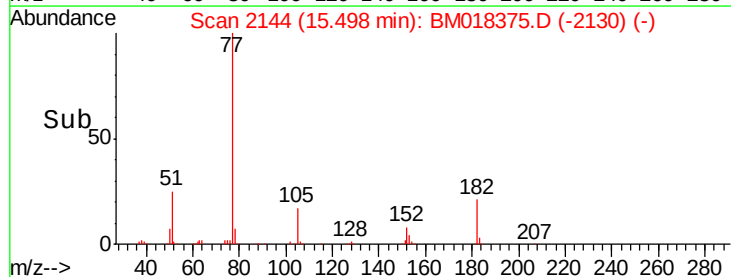
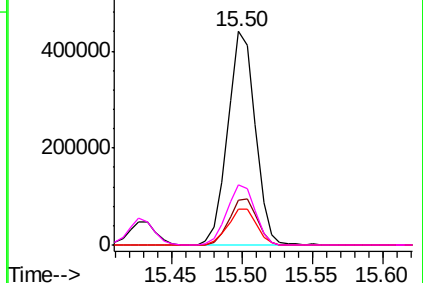


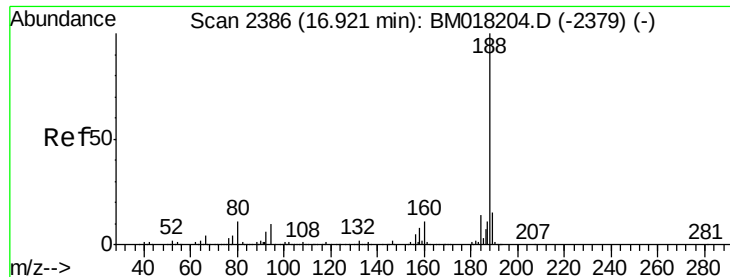
Abundance Ion 77.00 (76.70 to 77.70): BM

Ion 182.00 (181.70 to 182.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 51.00 (50.70 to 51.70): BM

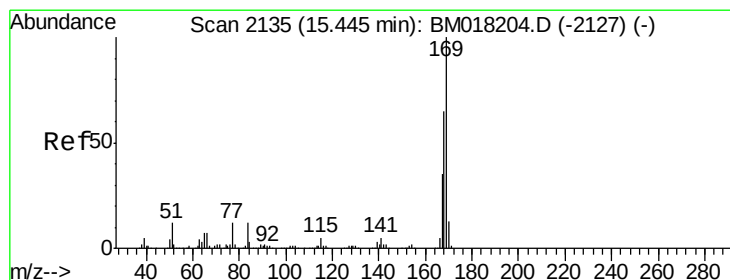
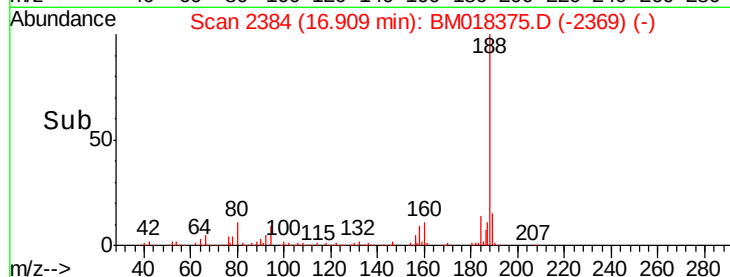
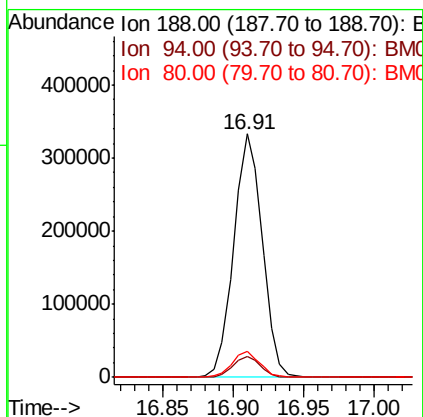
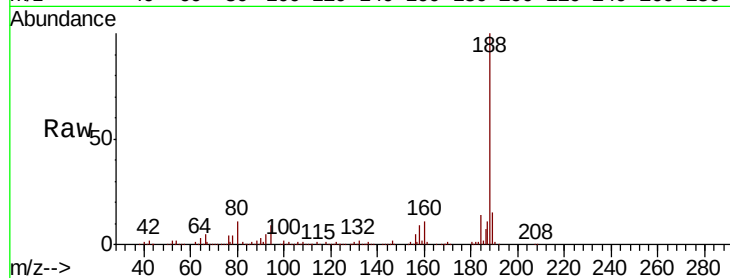




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 16.91 min Scan# 2384
Delta R.T. -0.01 min
Lab File: BM018375.D
Acq: 22 Dec 2018 02:07

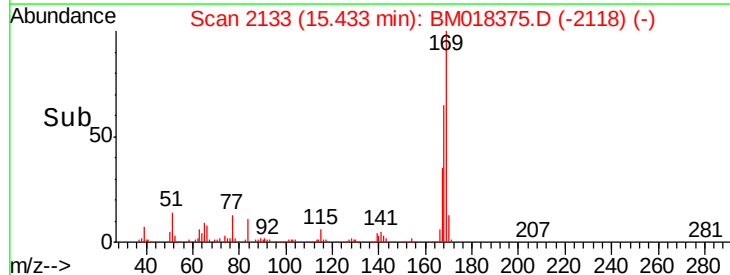
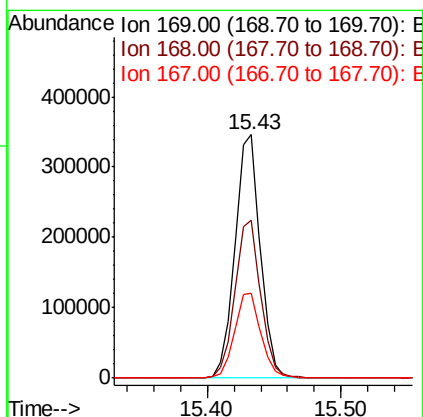
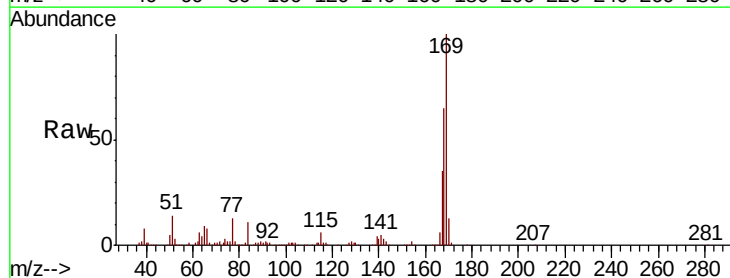
Instrument :
BNA_M
ClientSampleId :
SOIL-CUTTINGSMSD

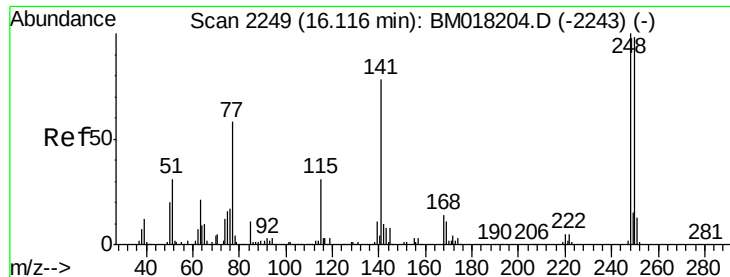
Tgt Ion:188 Resp: 469473
Ion Ratio Lower Upper
188 100
94 8.5 8.0 12.0
80 10.5 9.0 13.6



#66
n-Nitrosodiphenylamine
Concen: 29.354 ng
RT: 15.43 min Scan# 2133
Delta R.T. -0.01 min
Lab File: BM018375.D
Acq: 22 Dec 2018 02:07

Tgt Ion:169 Resp: 455712
Ion Ratio Lower Upper
169 100
168 64.9 52.2 78.4
167 34.7 27.6 41.4

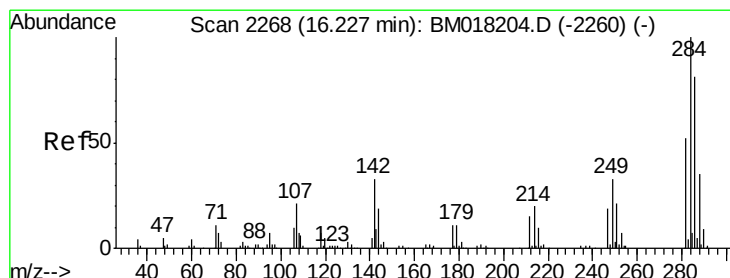
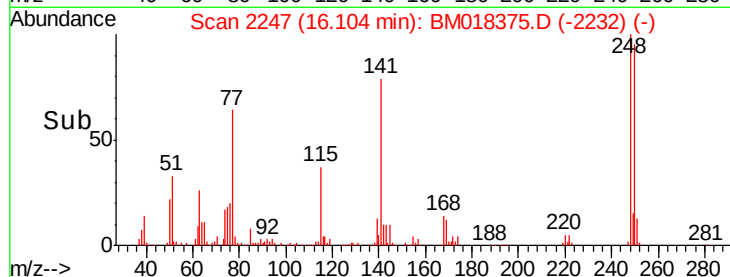
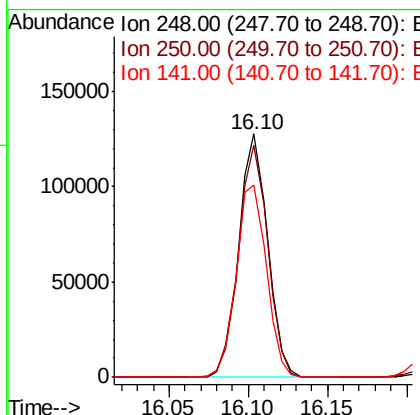
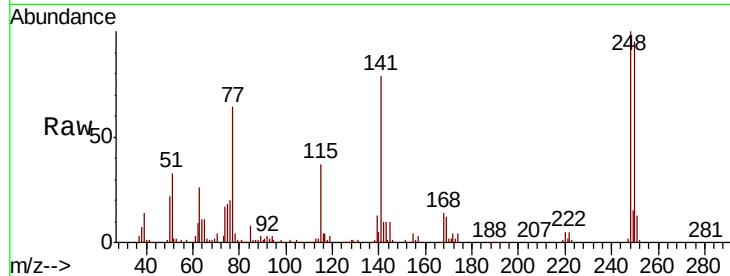




#67
 4-Bromophenyl-phenylether
 Concen: 28.544 ng
 RT: 16.10 min Scan# 2247
 Delta R.T. -0.01 min
 Lab File: BM018375.D
 Acq: 22 Dec 2018 02:07

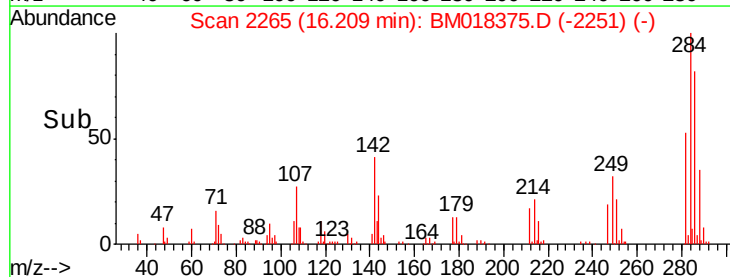
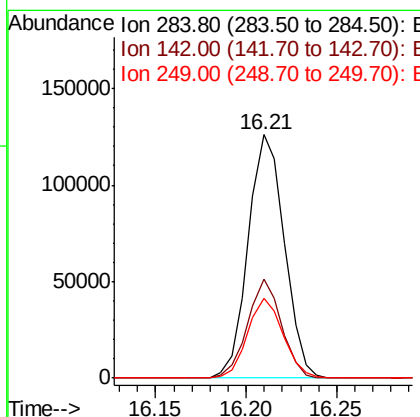
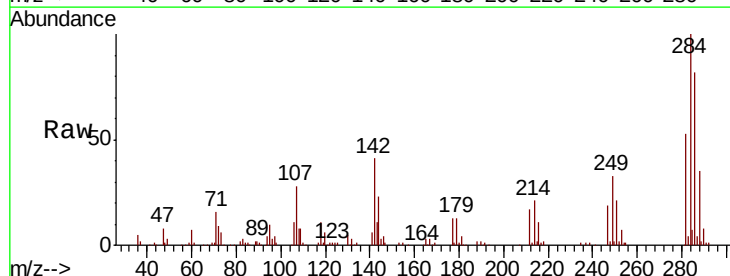
Instrument :
 BNA_M
 ClientSampleId :
 SOIL-CUTTINGSMSD

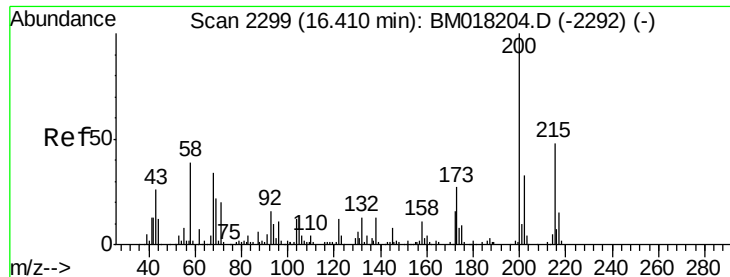
Tgt Ion: 248 Resp: 162294
 Ion Ratio Lower Upper
 248 100
 250 95.5 78.7 118.1
 141 78.8 62.2 93.4



#68
 Hexachlorobenzene
 Concen: 28.035 ng
 RT: 16.21 min Scan# 2265
 Delta R.T. -0.02 min
 Lab File: BM018375.D
 Acq: 22 Dec 2018 02:07

Tgt Ion: 284 Resp: 174626
 Ion Ratio Lower Upper
 284 100
 142 40.8 26.2 39.4#
 249 32.7 26.2 39.2





#69

Atrazine

Concen: 30.113 ng

RT: 16.40 min Scan# 2298

Delta R.T. -0.01 min

Lab File: BM018375.D

Acq: 22 Dec 2018 02:07

Instrument :

BNA_M

ClientSampleId :

SOIL-CUTTINGSMSD

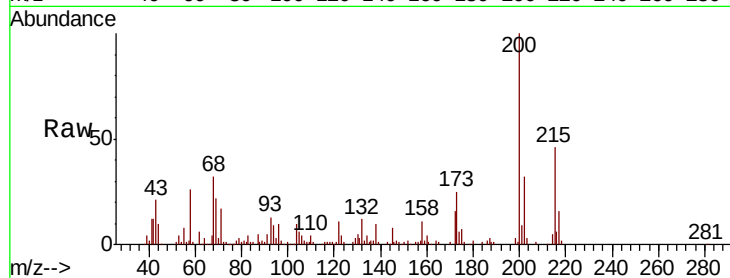
Tgt Ion:200 Resp: 157822

Ion Ratio Lower Upper

200 100

173 25.0 6.9 46.9

215 45.9 27.9 67.9

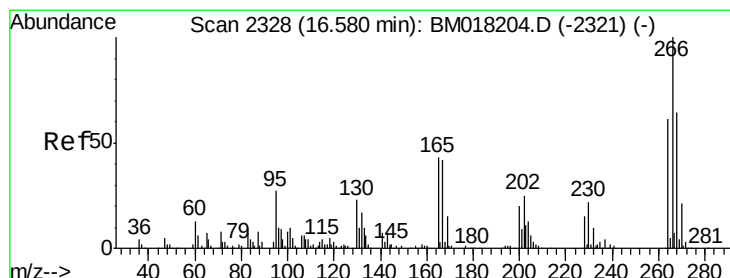
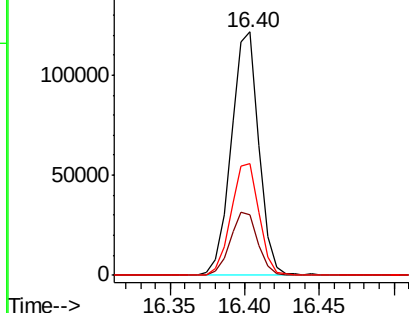
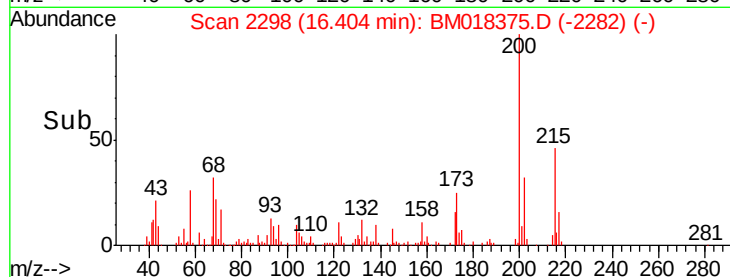


Abundance

Ion 200.00 (199.70 to 200.70): E

Ion 173.00 (172.70 to 173.70): E

Ion 215.00 (214.70 to 215.70): E



#70

Pentachlorophenol

Concen: 35.665 ng

RT: 16.57 min Scan# 2327

Delta R.T. -0.01 min

Lab File: BM018375.D

Acq: 22 Dec 2018 02:07

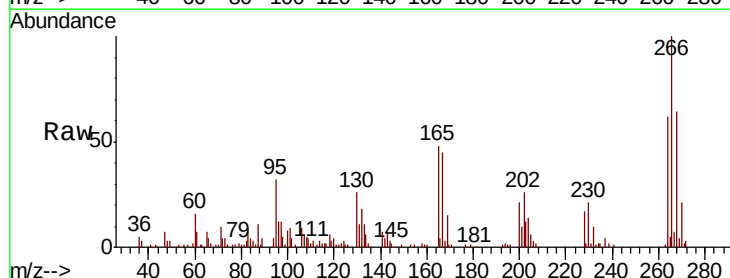
Tgt Ion:266 Resp: 146719

Ion Ratio Lower Upper

266 100

268 63.8 51.1 76.7

264 62.2 49.0 73.4

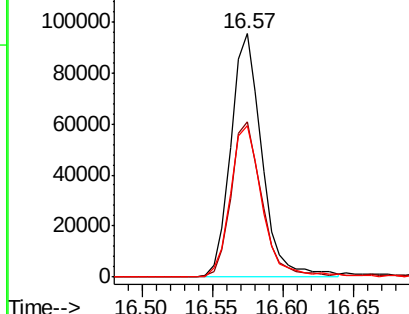
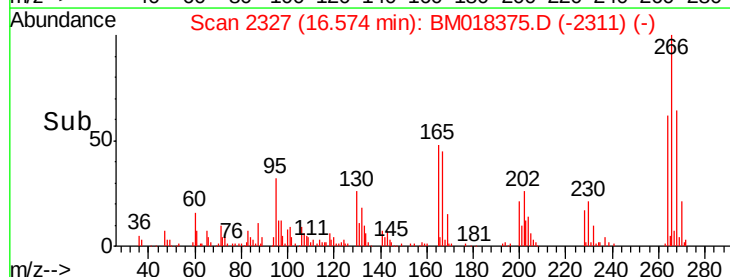


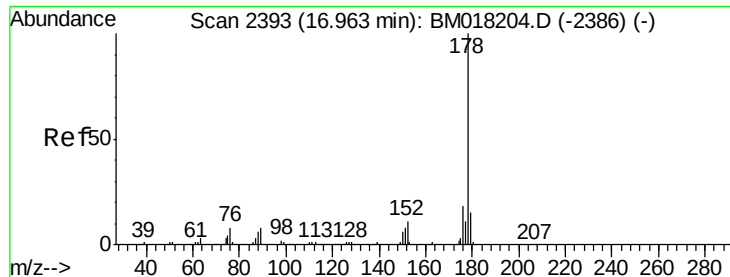
Abundance

Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E

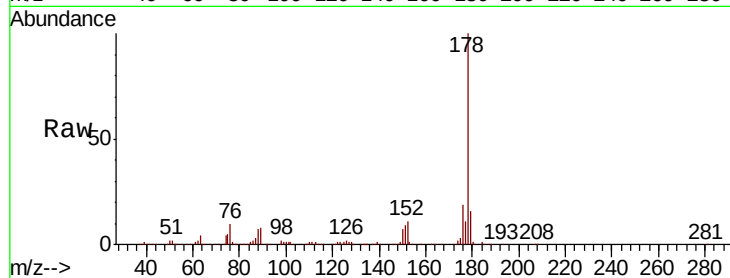




#71
Phenanthrene
Concen: 29.139 ng
RT: 16.95 min Scan# 2391
Delta R.T. -0.01 min
Lab File: BM018375.D
Acq: 22 Dec 2018 02:07

Instrument :
BNA_M
ClientSampleId :
SOIL-CUTTINGSMSD

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.9	14.7	22.1
179	15.7	12.0	18.0

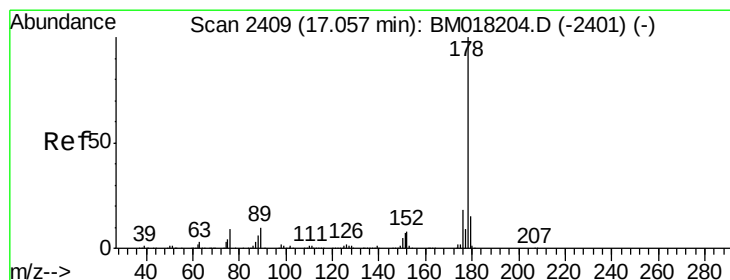
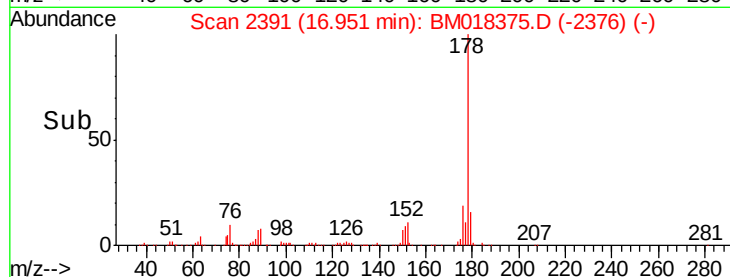
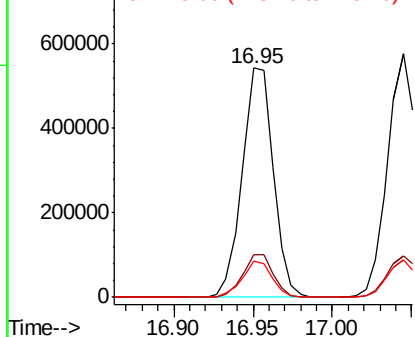


Abundance

Ion 178.00 (177.70 to 178.70): E

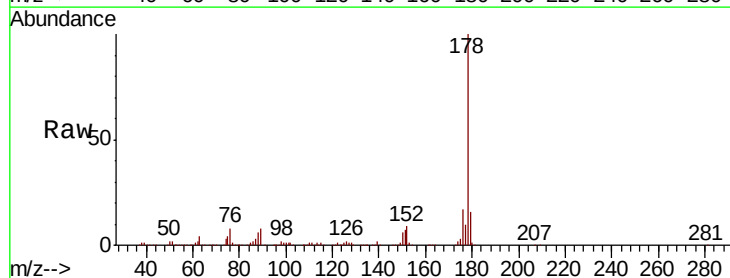
Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#72
Anthracene
Concen: 29.917 ng
RT: 17.04 min Scan# 2407
Delta R.T. -0.01 min
Lab File: BM018375.D
Acq: 22 Dec 2018 02:07

Tgt Ion	Ratio	Lower	Upper
178	100		
176	17.2	14.3	21.5
179	15.6	12.0	18.0

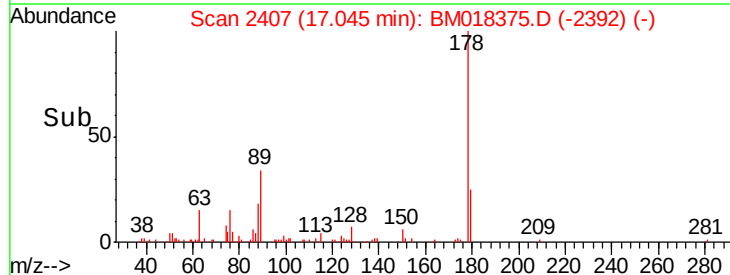
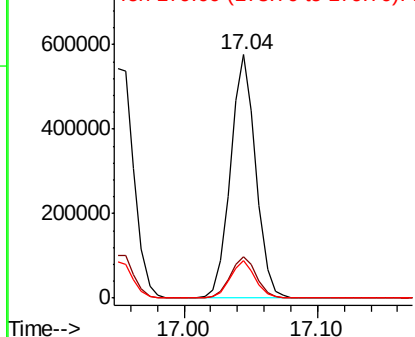


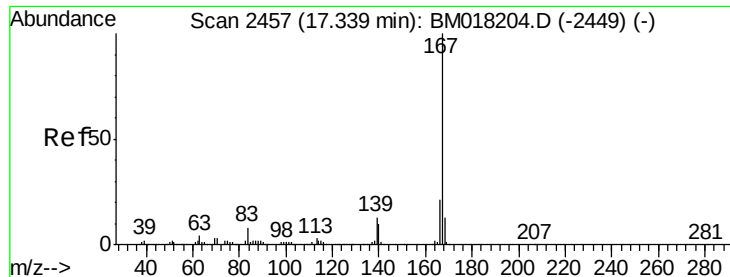
Abundance

Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

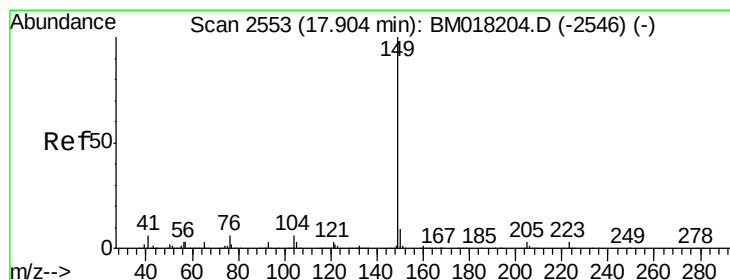
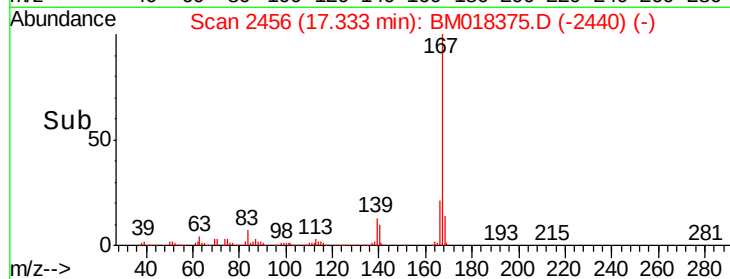
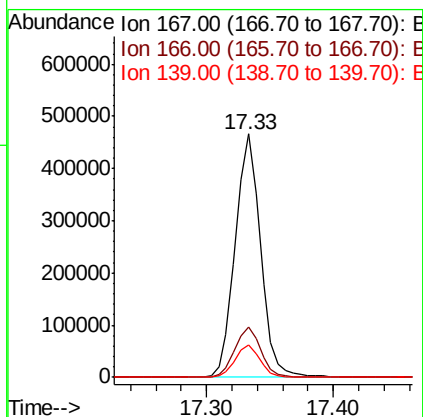
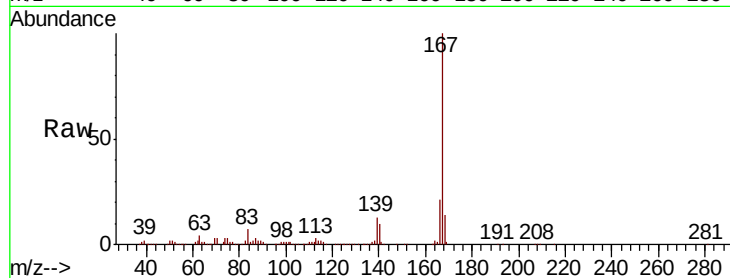




#73
 Carbazole
 Concen: 24.789 ng
 RT: 17.33 min Scan# 2456
 Delta R.T. -0.01 min
 Lab File: BM018375.D
 Acq: 22 Dec 2018 02:07

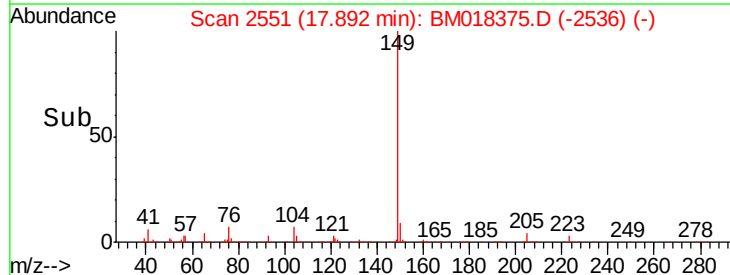
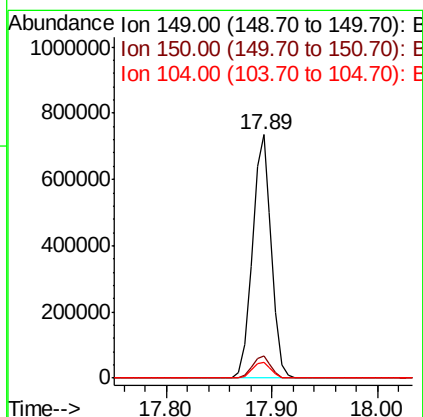
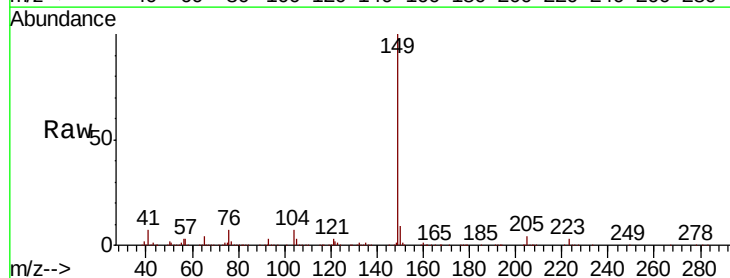
Instrument :
 BNA_M
 ClientSampleId :
 SOIL-CUTTINGSMSD

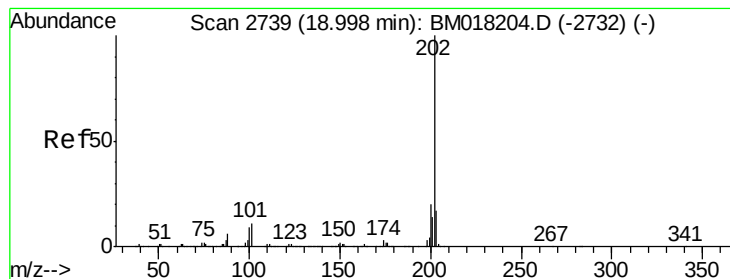
Tgt Ion:167 Resp: 643688
 Ion Ratio Lower Upper
 167 100
 166 20.5 16.8 25.2
 139 13.2 10.3 15.5



#74
 Di-n-butylphthalate
 Concen: 28.550 ng
 RT: 17.89 min Scan# 2551
 Delta R.T. -0.01 min
 Lab File: BM018375.D
 Acq: 22 Dec 2018 02:07

Tgt Ion:149 Resp: 914722
 Ion Ratio Lower Upper
 149 100
 150 8.9 7.3 10.9
 104 6.6 4.8 7.2





#75

Fluoranthene

Concen: 25.143 ng

RT: 18.99 min Scan# 2737

Delta R.T. -0.01 min

Lab File: BM018375.D

Acq: 22 Dec 2018 02:07

Instrument :

BNA_M

ClientSampleId :

SOIL-CUTTINGSMSD

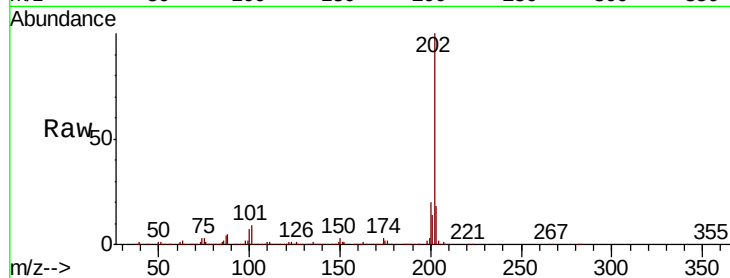
Tgt Ion:202 Resp: 745459

Ion Ratio Lower Upper

202 100

101 9.5 0.0 30.5

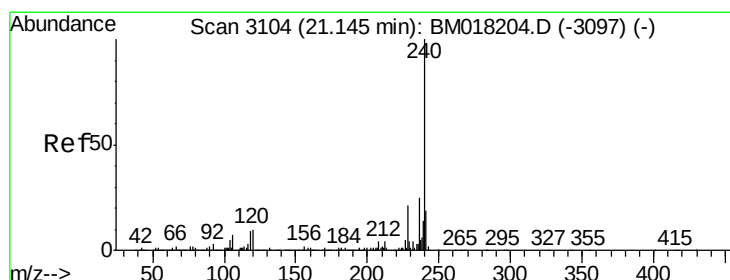
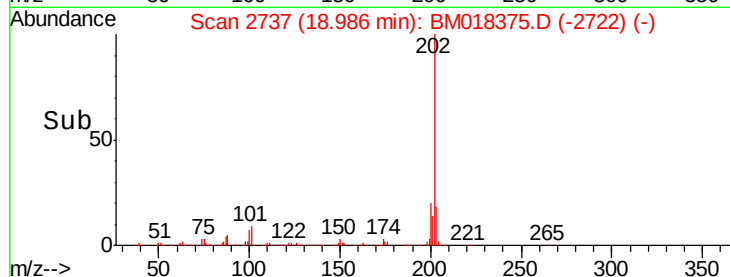
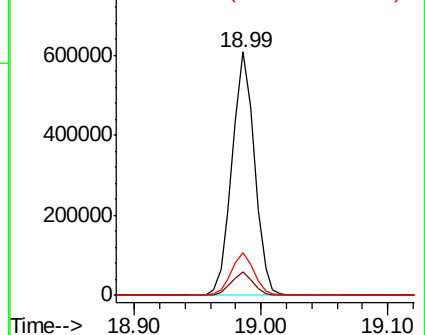
203 17.7 0.0 37.5



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.13 min Scan# 3102

Delta R.T. -0.01 min

Lab File: BM018375.D

Acq: 22 Dec 2018 02:07

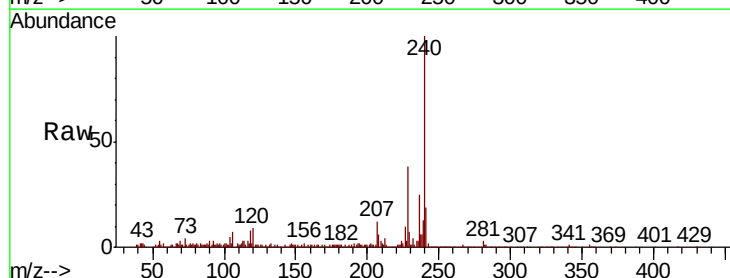
Tgt Ion:240 Resp: 400586

Ion Ratio Lower Upper

240 100

120 9.4 8.2 12.2

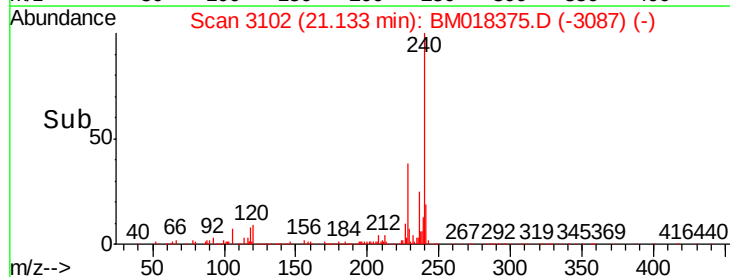
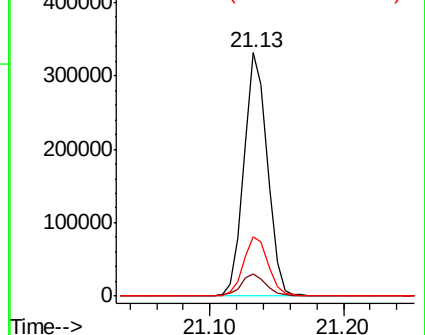
236 24.5 20.3 30.5

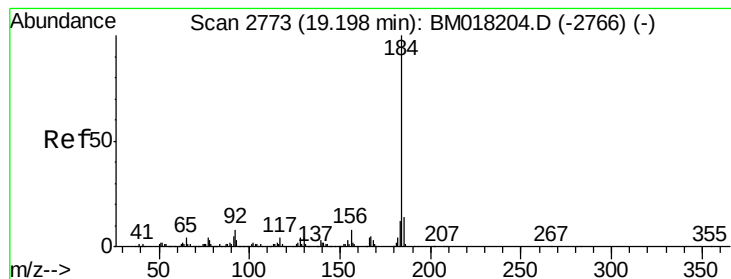


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Benzidine

Concen: 51.523 ng

RT: 19.20 min Scan# 2773

Delta R.T. -0.00 min

Lab File: BM018375.D

Acq: 22 Dec 2018 02:07

Instrument :

BNA_M

ClientSampleId :

SOIL-CUTTINGSMSD

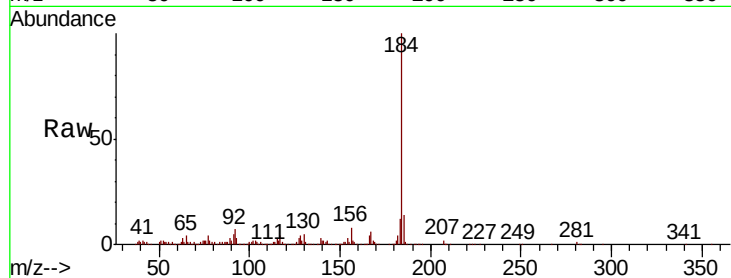
Tgt Ion:184 Resp: 523371

Ion Ratio Lower Upper

184 100

185 13.8 11.4 17.2

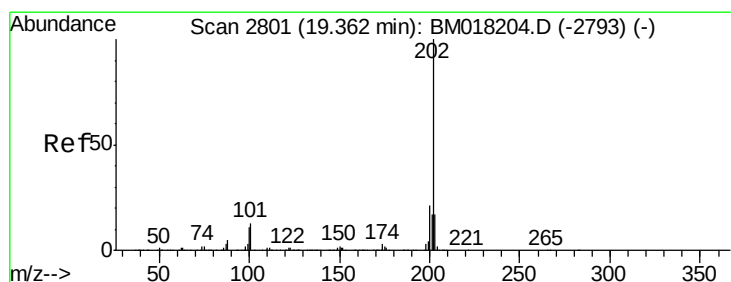
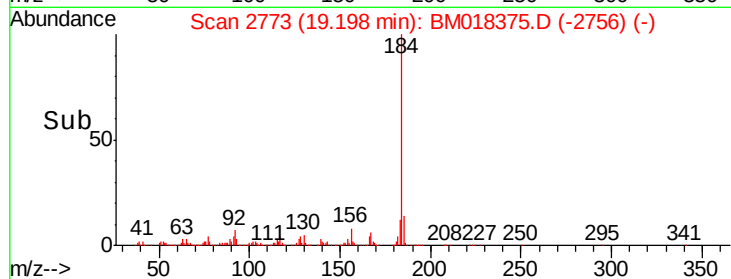
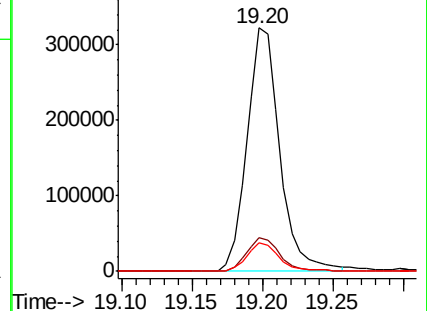
183 11.7 9.7 14.5



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: 31.218 ng

RT: 19.35 min Scan# 2799

Delta R.T. -0.01 min

Lab File: BM018375.D

Acq: 22 Dec 2018 02:07

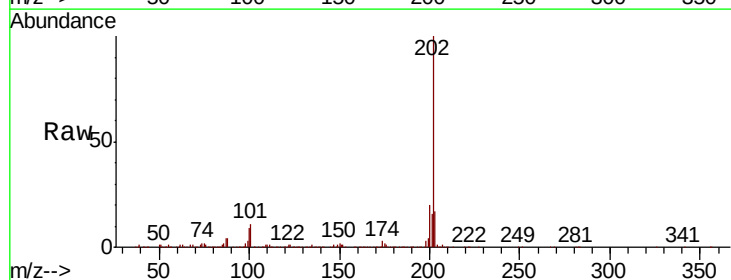
Tgt Ion:202 Resp: 745147

Ion Ratio Lower Upper

202 100

200 20.1 16.5 24.7

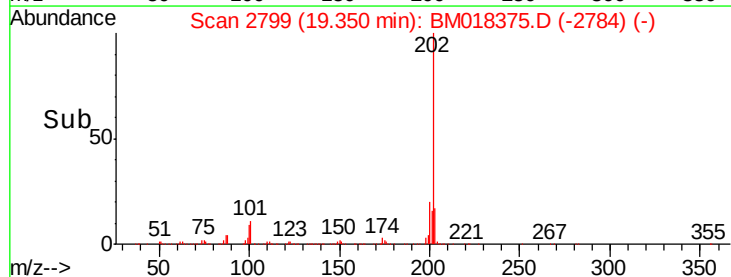
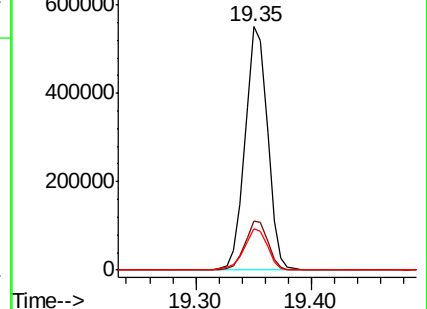
203 17.2 14.0 21.0

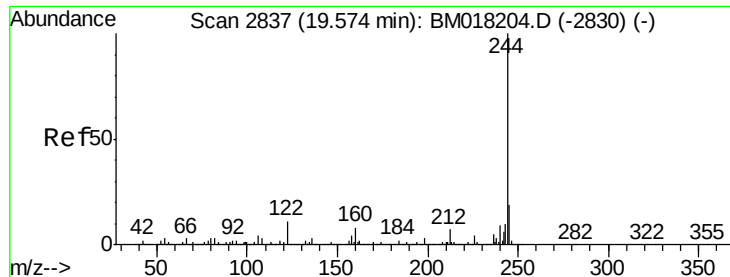


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#79

Terphenyl-d14

Concen: 66.198 ng

RT: 19.57 min Scan# 2836

Delta R.T. -0.01 min

Lab File: BM018375.D

Acq: 22 Dec 2018 02:07

Instrument :

BNA_M

ClientSampleId :

SOIL-CUTTINGSMSD

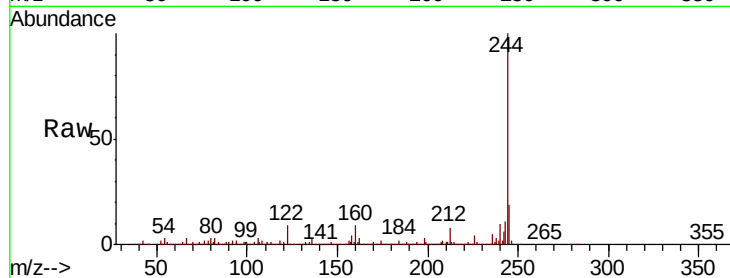
Tgt Ion:244 Resp: 1172501

Ion Ratio Lower Upper

244 100

212 7.5 5.8 8.8

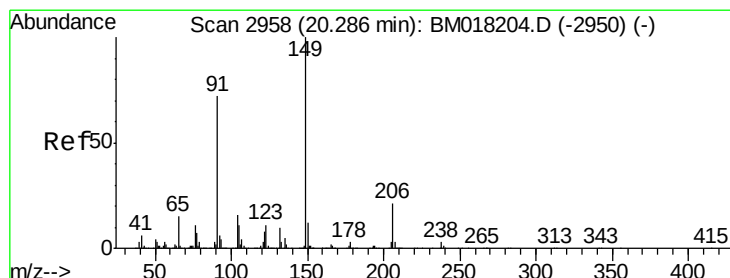
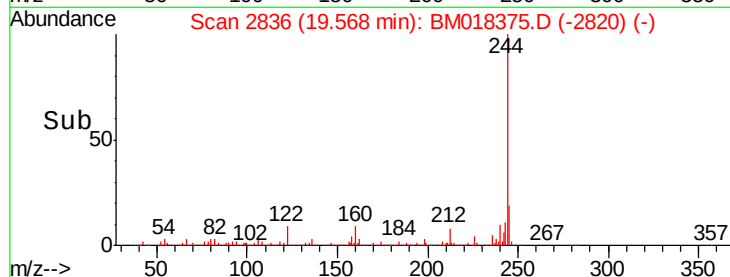
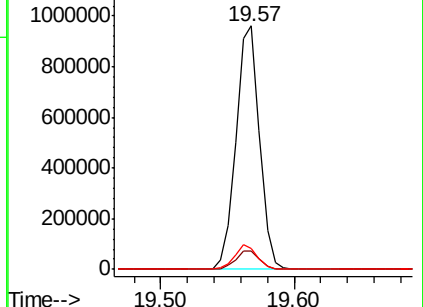
122 8.7 9.0 13.6#



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: 30.546 ng

RT: 20.27 min Scan# 2956

Delta R.T. -0.01 min

Lab File: BM018375.D

Acq: 22 Dec 2018 02:07

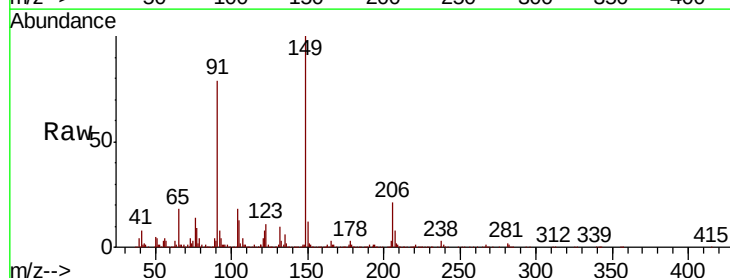
Tgt Ion:149 Resp: 346850

Ion Ratio Lower Upper

149 100

91 78.6 57.4 86.2

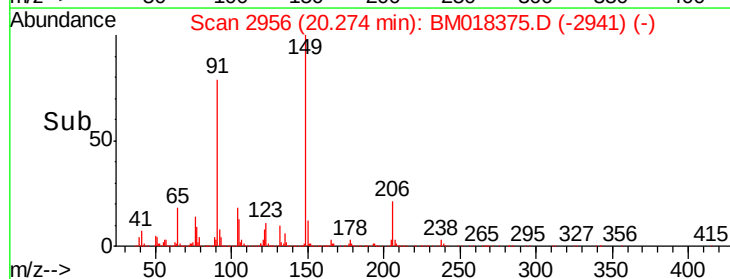
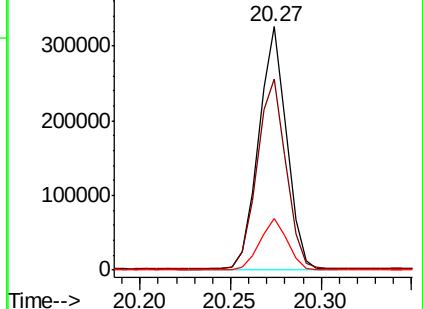
206 21.3 17.0 25.4

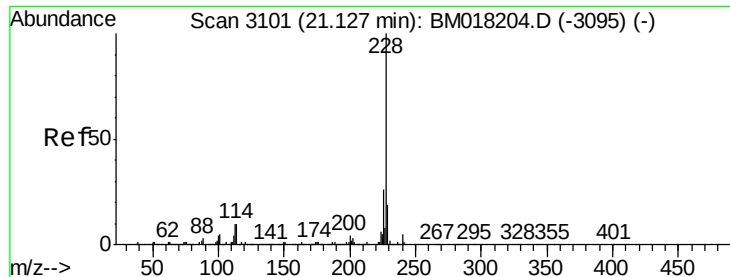


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 91.00 (90.70 to 91.70): BM0

Ion 206.00 (205.70 to 206.70): E

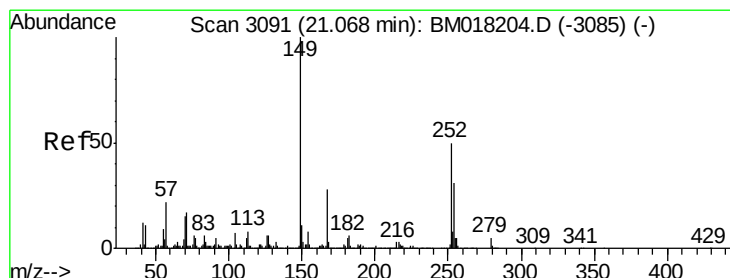
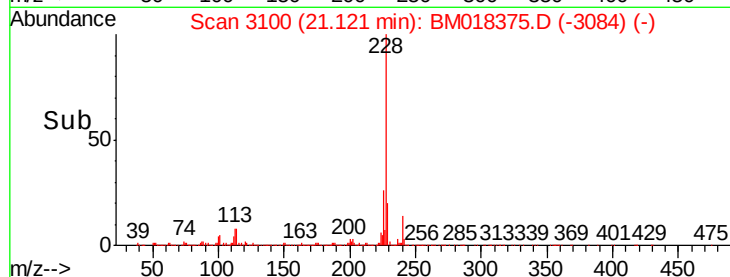
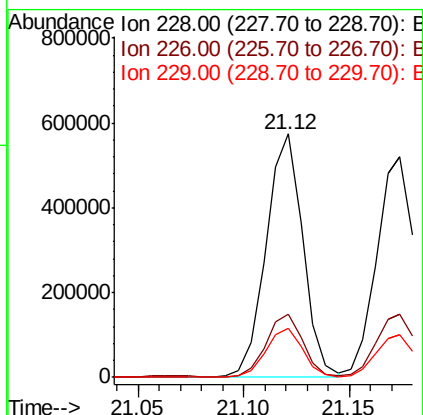
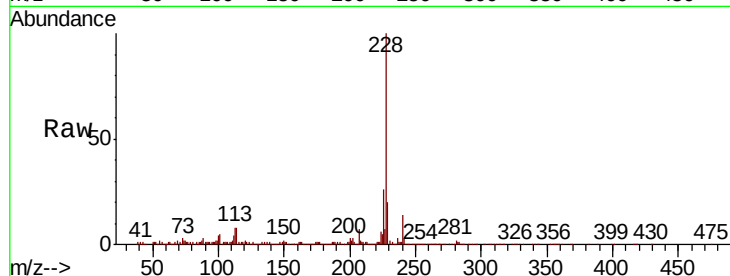




#81
Benzo(a)anthracene
Concen: 29.620 ng
RT: 21.12 min Scan# 3100
Delta R.T. -0.01 min
Lab File: BM018375.D
Acq: 22 Dec 2018 02:07

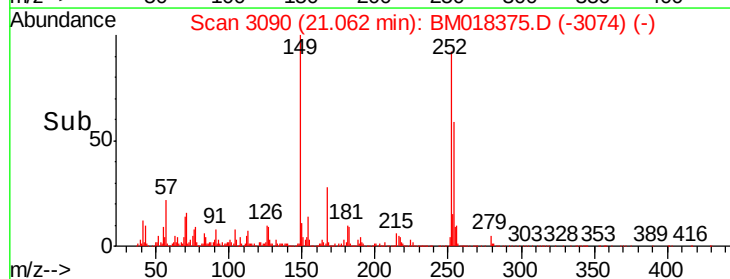
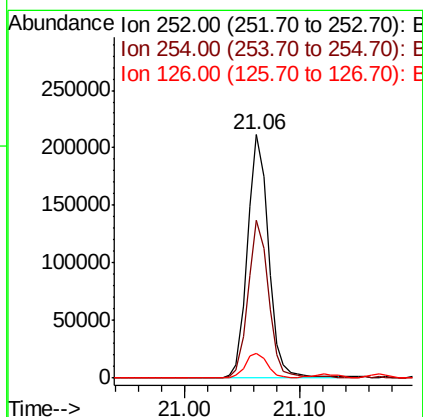
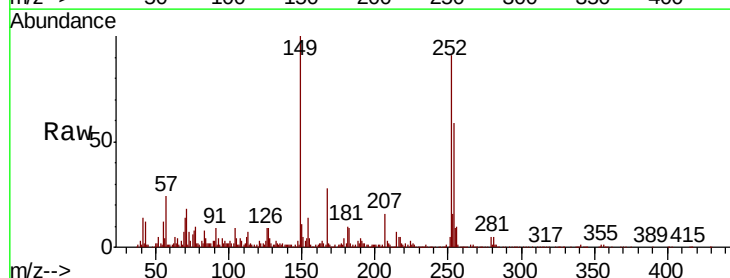
Instrument :
BNA_M
ClientSampleId :
SOIL-CUTTINGSMSD

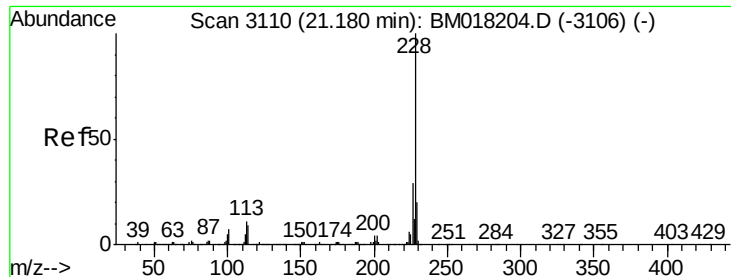
Tgt Ion	Ratio	Lower	Upper
228	100		
226	26.2	21.0	31.4
229	20.0	15.5	23.3



#82
3,3'-Dichlorobenzidine
Concen: 28.805 ng
RT: 21.06 min Scan# 3090
Delta R.T. -0.01 min
Lab File: BM018375.D
Acq: 22 Dec 2018 02:07

Tgt Ion	Ratio	Lower	Upper
252	100		
254	64.8	50.4	75.6
126	10.3	9.4	14.0





#83

Chrysene

Concen: 29.053 ng

RT: 21.17 min Scan# 3109

Delta R.T. -0.01 min

Lab File: BM018375.D

Acq: 22 Dec 2018 02:07

Instrument :

BNA_M

ClientSampleId :

SOIL-CUTTINGSMSD

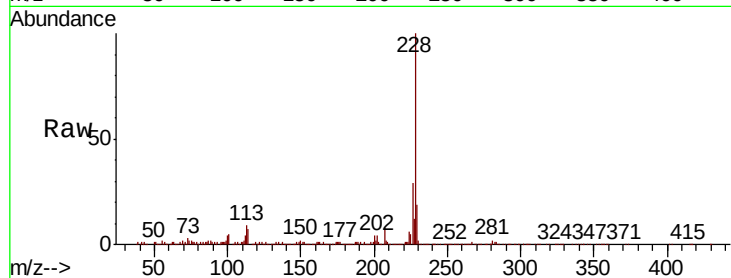
Tgt Ion:228 Resp: 653915

Ion Ratio Lower Upper

228 100

226 28.8 23.1 34.7

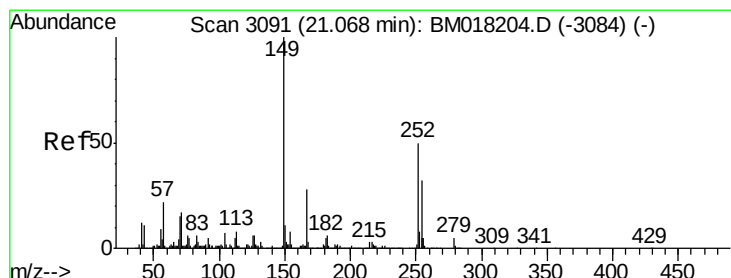
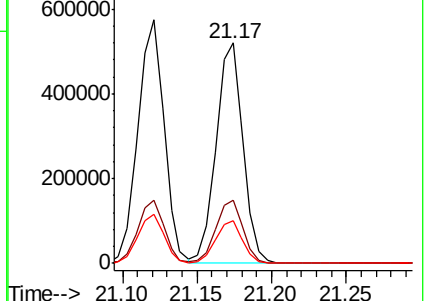
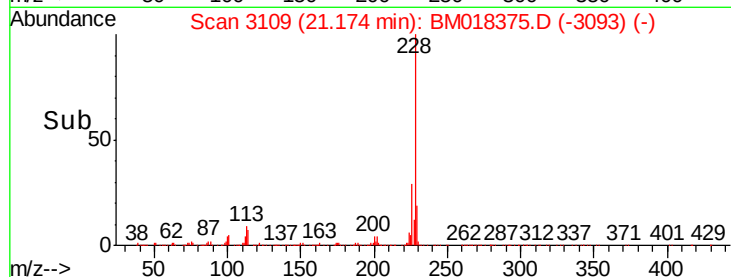
229 19.4 15.8 23.6



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#84

Bis(2-ethylhexyl)phthalate

Concen: 30.183 ng

RT: 21.06 min Scan# 3089

Delta R.T. -0.01 min

Lab File: BM018375.D

Acq: 22 Dec 2018 02:07

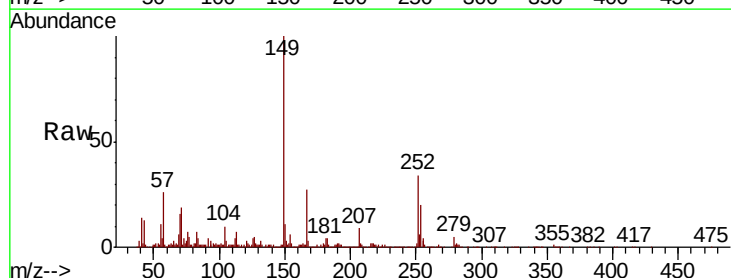
Tgt Ion:149 Resp: 510792

Ion Ratio Lower Upper

149 100

167 27.4 22.7 34.1

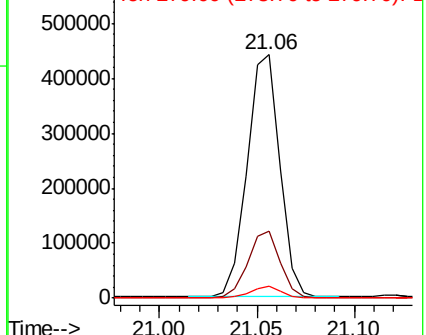
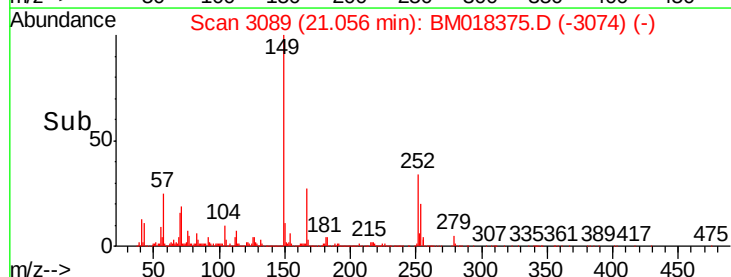
279 4.7 3.9 5.9

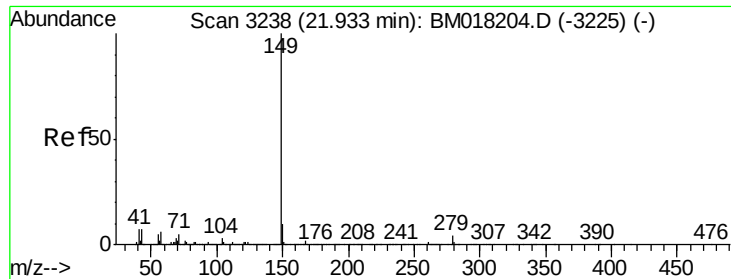


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

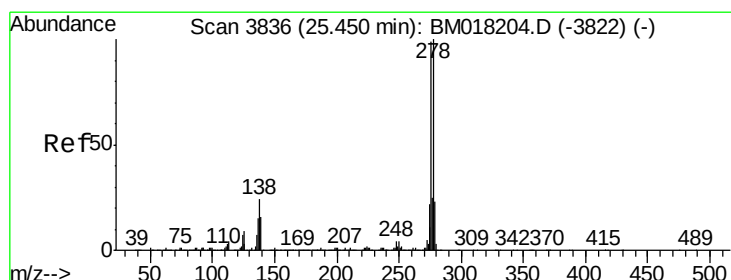
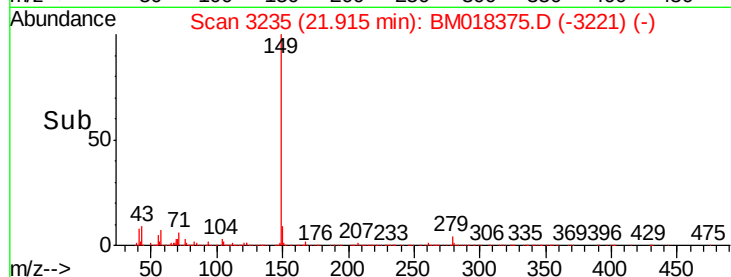
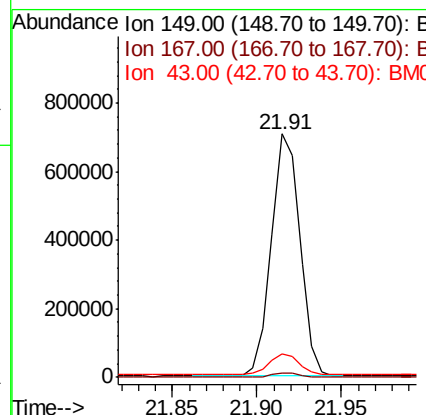
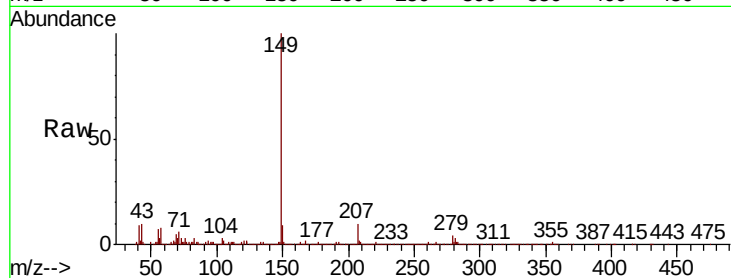




#85
Di-n-octyl phthalate
Concen: 29.995 ng
RT: 21.91 min Scan# 3235
Delta R.T. -0.02 min
Lab File: BM018375.D
Acq: 22 Dec 2018 02:07

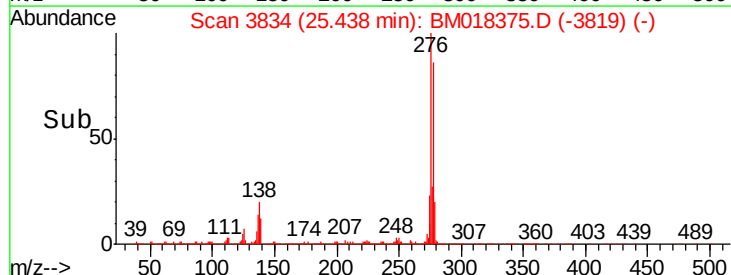
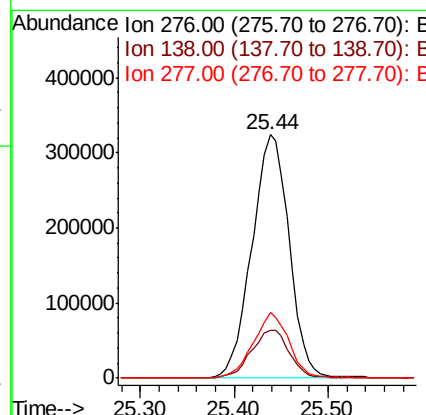
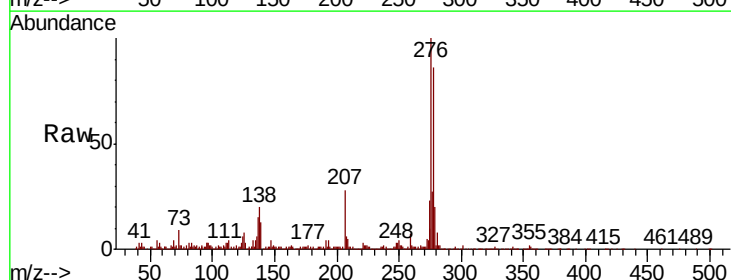
Instrument :
BNA_M
ClientSampleId :
SOIL-CUTTINGSMSD

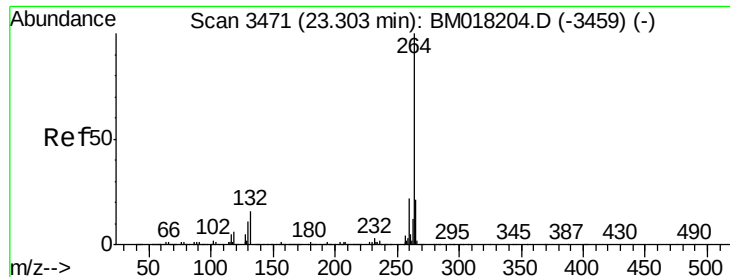
Tgt Ion	Ratio	Lower	Upper
149	100		
167	1.7	1.4	2.0
43	9.5	6.2	9.4#



#86
Indeno(1,2,3-cd)pyrene
Concen: 39.399 ng
RT: 25.44 min Scan# 3834
Delta R.T. -0.01 min
Lab File: BM018375.D
Acq: 22 Dec 2018 02:07

Tgt Ion	Ratio	Lower	Upper
276	100		
138	19.8	18.6	28.0
277	25.4	20.3	30.5

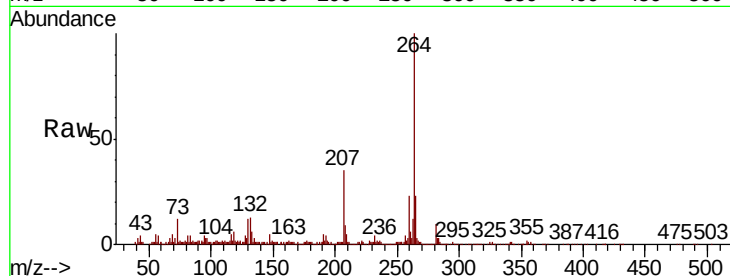




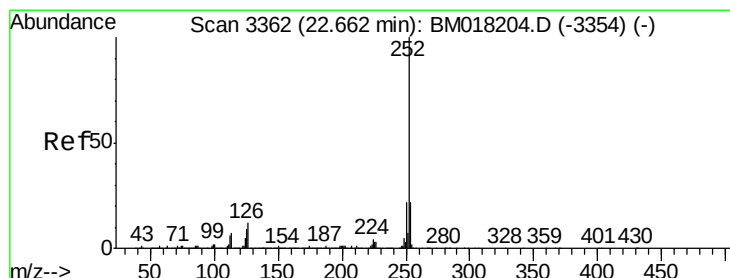
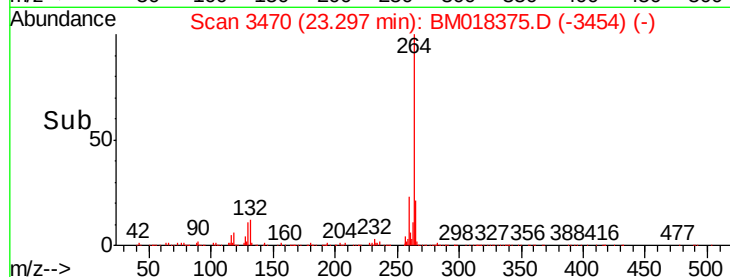
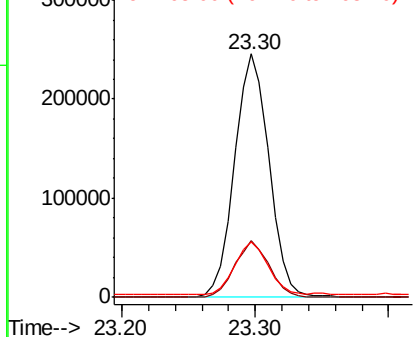
#87
Perylene-d12
Concen: 20.000 ng
RT: 23.30 min Scan# 3470
Delta R.T. -0.01 min
Lab File: BM018375.D
Acq: 22 Dec 2018 02:07

Instrument :
BNA_M
ClientSampleId :
SOIL-CUTTINGSMSD

Tgt Ion:264 Resp: 438246
Ion Ratio Lower Upper
264 100
260 23.3 17.5 26.3
265 22.6 17.3 25.9

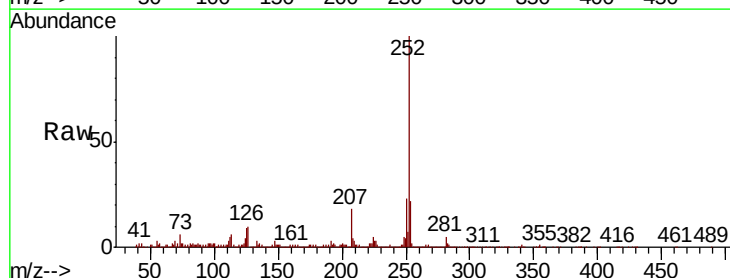


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

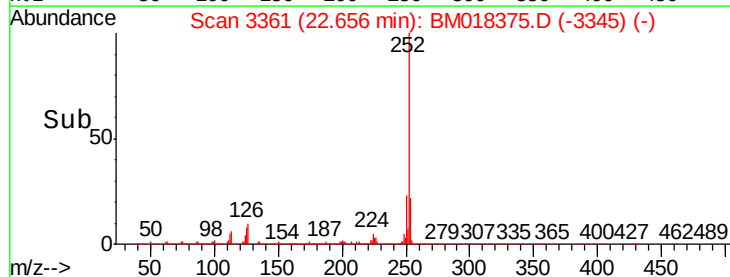
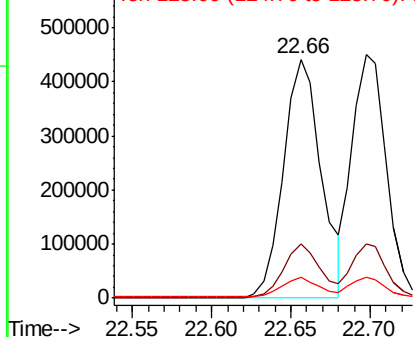


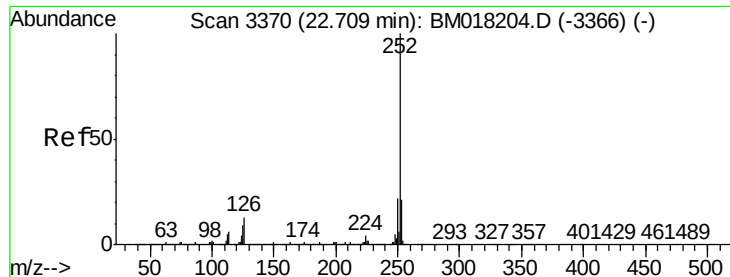
#88
Benzo(b)fluoranthene
Concen: 29.683 ng
RT: 22.66 min Scan# 3361
Delta R.T. -0.01 min
Lab File: BM018375.D
Acq: 22 Dec 2018 02:07

Tgt Ion:252 Resp: 730710
Ion Ratio Lower Upper
252 100
253 22.4 17.6 26.4
125 8.6 7.4 11.0



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: 27.647 ng

RT: 22.70 min Scan# 3368

Delta R.T. -0.01 min

Lab File: BM018375.D

Acq: 22 Dec 2018 02:07

Instrument :

BNA_M

ClientSampleId :

SOIL-CUTTINGSMSD

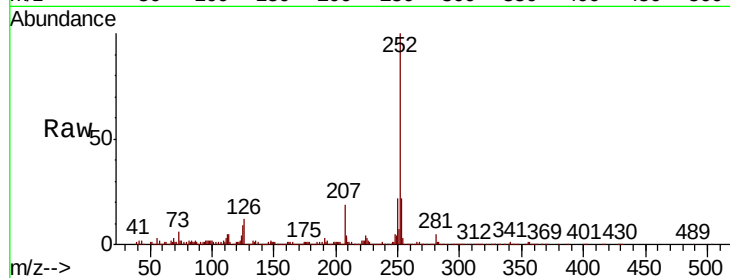
Tgt Ion:252 Resp: 677809

Ion Ratio Lower Upper

252 100

253 22.2 16.9 25.3

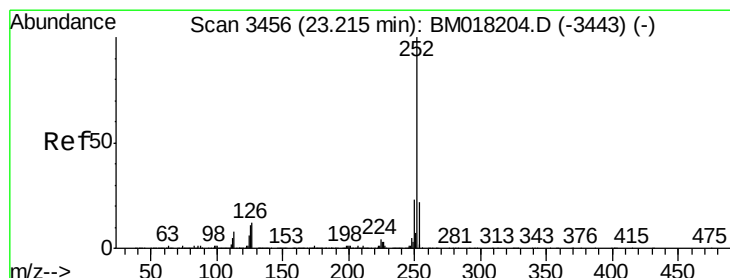
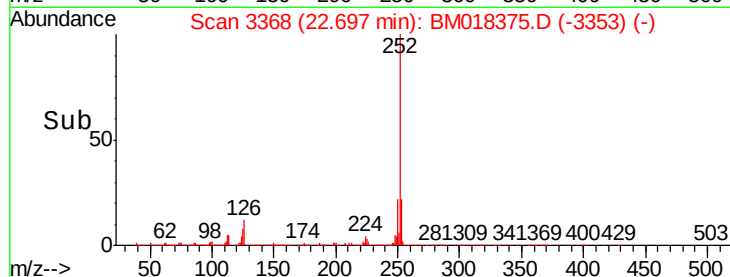
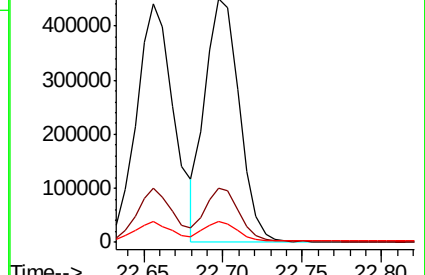
125 8.6 7.5 11.3



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



#90

Benzo(a)pyrene

Concen: 29.844 ng

RT: 23.20 min Scan# 3454

Delta R.T. -0.01 min

Lab File: BM018375.D

Acq: 22 Dec 2018 02:07

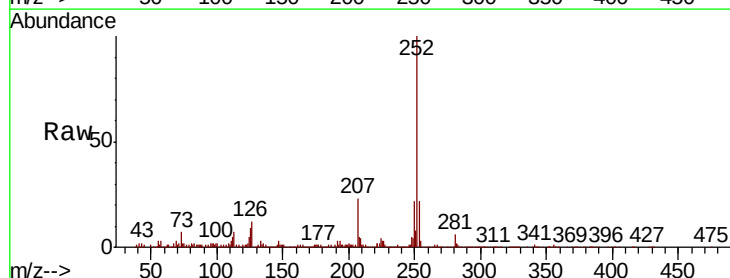
Tgt Ion:252 Resp: 698737

Ion Ratio Lower Upper

252 100

253 21.6 17.6 26.4

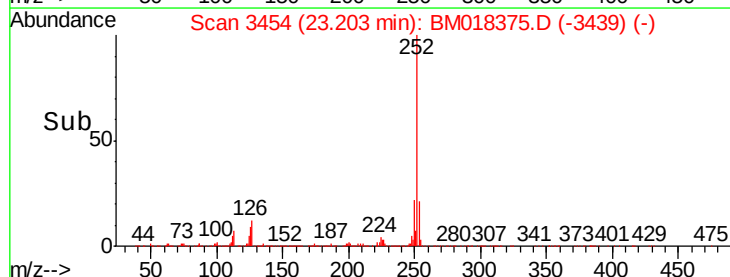
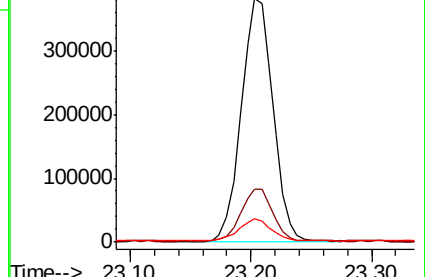
125 9.4 8.6 12.8

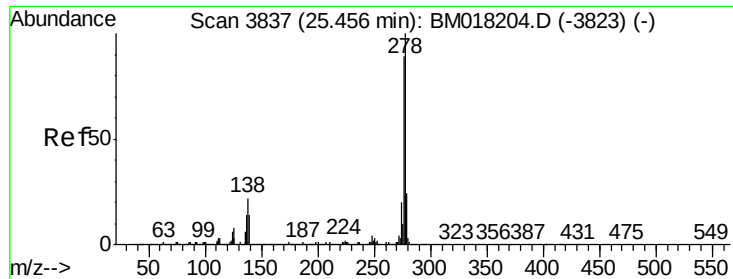


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#91

Dibenzo(a,h)anthracene

Concen: 34.735 ng

RT: 25.44 min Scan# 3835

Delta R.T. -0.01 min

Lab File: BM018375.D

Acq: 22 Dec 2018 02:07

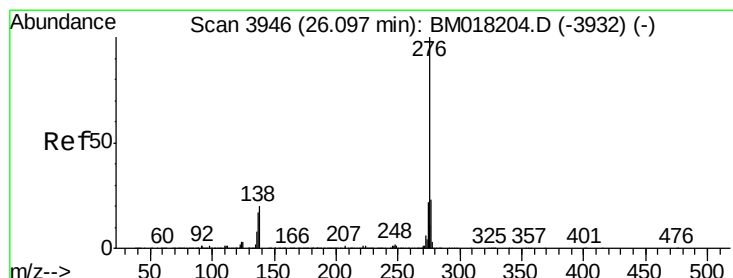
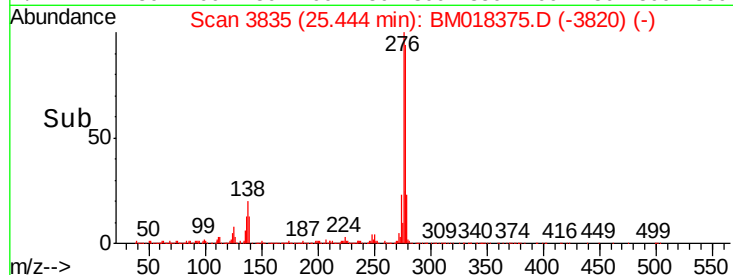
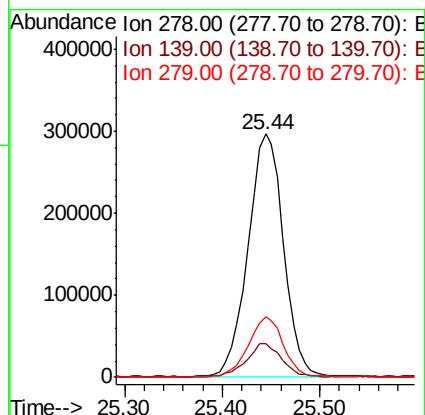
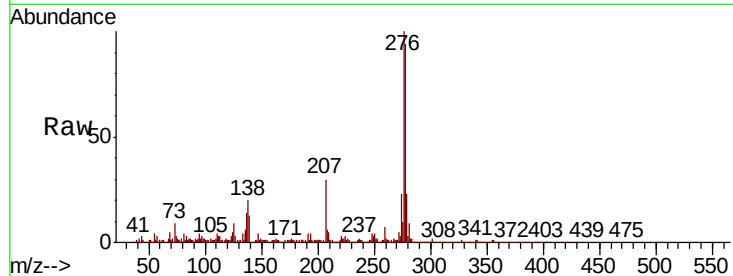
Instrument :

BNA_M

ClientSampleId :

SOIL-CUTTINGSMSD

Tgt Ion:	278	Resp:	753357
Ion	Ratio	Lower	Upper
278	100		
139	14.0	11.6	17.4
279	24.7	19.2	28.8



#92

Benzo(g,h,i)perylene

Concen: 34.761 ng

RT: 26.10 min Scan# 3946

Delta R.T. -0.00 min

Lab File: BM018375.D

Acq: 22 Dec 2018 02:07

Tgt Ion:	276	Resp:	712647
Ion	Ratio	Lower	Upper
276	100		
277	23.5	18.7	28.1
138	16.9	15.8	23.8

