

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM081318\
 Data File : BM016328.D
 Acq On : 13 Aug 2018 16:46
 Operator : SJ/JU
 Sample : J4405-04MSD
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 EXCAVATION-SOILMSD

Quant Time: Aug 14 03:52:32 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM072318.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 10 18:44:22 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.12	152	29871	20.00	ng	-0.01
21) Naphthalene-d8	10.94	136	108736	20.00	ng	-0.01
38) Acenaphthene-d10	14.76	164	53312	20.00	ng	-0.01
63) Phenanthrene-d10	17.49	188	103504	20.00	ng	-0.02
75) Chrysene-d12	21.63	240	128333	20.00	ng	-0.01
86) Perylene-d12	23.96	264	133170	20.00	ng	-0.02

System Monitoring Compounds						
5) 2-Fluorophenol	5.66	112	251727	139.98	ng	0.00
7) Phenol-d6	7.30	99	262032	111.58	ng	0.00
23) Nitrobenzene-d5	9.31	82	264597	113.18	ng	-0.01
41) 2,4,6-Tribromophenol	16.25	330	94591	139.89	ng	-0.01
44) 2-Fluorobiphenyl	13.38	172	490143	111.86	ng	-0.01
78) Terphenyl-d14	20.07	244	692426	112.94	ng	-0.01

Target Compounds				Qvalue		
2) 1,4-Dioxane	3.46	88	36517	43.342	ng	# 100
3) Pyridine	3.90	79	67198	33.108	ng	# 75
4) n-Nitrosodimethylamine	3.80	42	91025	57.498	ng	# 29
6) Aniline	7.46	93	59194	21.892	ng	# 81
8) 2-Chlorophenol	7.69	128	91265	42.703	ng	95
9) Benzaldehyde	7.27	77	53521	32.438	ng	84
10) Phenol	7.32	94	80753	34.389	ng	91
11) bis(2-Chloroethyl)ether	7.55	93	75784	40.852	ng	89
12) 1,3-Dichlorobenzene	8.00	146	103240	41.269	ng	# 85
13) 1,4-Dichlorobenzene	8.16	146	105499	41.582	ng	# 93
14) 1,2-Dichlorobenzene	8.47	146	102248	41.187	ng	# 91
15) Benzyl Alcohol	8.38	79	79432	42.479	ng	# 82
16) 2,2'-oxybis(1-Chloropropan	8.65	45	101686	35.815	ng	95
17) 2-Methylphenol	8.58	107	66284	41.298	ng	# 77
18) Hexachloroethane	9.19	117	52620	47.979	ng	98
19) n-Nitroso-di-n-propylamine	8.94	70	71877	41.875	ng	# 69
20) 3+4-Methylphenols	8.92	107	83419	36.124	ng	# 82
22) Acetophenone	8.97	105	141960	51.848	ng	# 76
24) Nitrobenzene	9.36	77	118010	50.148	ng	# 96
25) Isophorone	9.87	82	177727	55.578	ng	# 94
26) 2-Nitrophenol	10.06	139	45783	46.606	ng	# 37
27) 2,4-Dimethylphenol	10.12	122	72973	53.320	ng	# 78
28) bis(2-Chloroethoxy)methane	10.35	93	98260	47.276	ng	99
29) 2,4-Dichlorophenol	10.60	162	78616	48.341	ng	98
30) 1,2,4-Trichlorobenzene	10.80	180	93800	47.470	ng	95
31) Naphthalene	10.99	128	274059	49.800	ng	98
32) Benzoic acid	10.30	122	37135	35.594	ng	# 87
33) 4-Chloroaniline	11.13	127	22726	10.120	ng	# 86
34) Hexachlorobutadiene	11.24	225	73414	53.562	ng	96
35) Caprolactam	11.93	113	12652	28.089	ng	90
36) 4-Chloro-3-methylphenol	12.24	107	79943	44.693	ng	83
37) 2-Methylnaphthalene	12.59	142	195984	53.163	ng	# 87
39) 1,2,4,5-Tetrachlorobenzene	12.95	216	102059	56.231	ng	# 100
40) Hexachlorocyclopentadiene	12.91	237	61917	70.506	ng	99

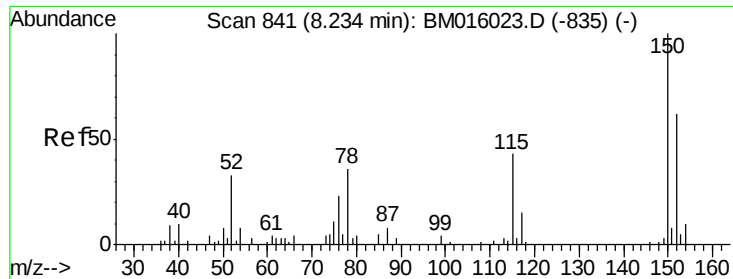
Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM081318\
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) 2,4,6-Trichlorophenol	13.20	196	58762	51.747	ng	99
43) 2,4,5-Trichlorophenol	13.29	196	56787	48.481	ng	# 81
45) 1,1'-Biphenyl	13.59	154	241591	50.214	ng	97
46) 2-Chloronaphthalene	13.64	162	180397	48.207	ng	# 87
47) 2-Nitroaniline	13.87	65	60927	49.247	ng	# 79
48) Acenaphthylene	14.49	152	289286	52.807	ng	99
49) Dimethylphthalate	14.22	163	234131	50.182	ng	99
50) 2,6-Dinitrotoluene	14.36	165	44930	47.862	ng	# 44
51) Acenaphthene	14.82	154	167071	49.588	ng	96
52) 3-Nitroaniline	14.69	138	25333	24.985	ng	# 71
53) 2,4-Dinitrophenol	14.92	184	28953	72.452	ng	# 53
54) Dibenzofuran	15.16	168	267198	48.126	ng	# 76
55) 4-Nitrophenol	15.01	139	45547	62.662	ng	# 83
56) 2,4-Dinitrotoluene	15.15	165	64761	48.247	ng	# 64
57) Fluorene	15.80	166	210975	51.136	ng	99
58) 2,3,4,6-Tetrachlorophenol	15.39	232	50284	49.945	ng	# 100
59) Diethylphthalate	15.56	149	252740	50.258	ng	# 94
60) 4-Chlorophenyl-phenylether	15.79	204	109351	47.611	ng	# 80
61) 4-Nitroaniline	15.86	138	37311	38.353	ng	# 1
62) Azobenzene	16.08	77	281300	53.114	ng	# 72
64) 4,6-Dinitro-2-methylphenol	15.92	198	23737	37.783	ng	# 74
65) n-Nitrosodiphenylamine	16.01	169	171637	50.360	ng	97
66) 4-Bromophenyl-phenylether	16.68	248	62088	52.975	ng	# 74
67) Hexachlorobenzene	16.80	284	61140	47.371	ng	# 55
68) Atrazine	16.95	200	65636	53.733	ng	96
69) Pentachlorophenol	17.15	266	59132	73.987	ng	96
70) Phenanthrene	17.54	178	295509	50.996	ng	98
71) Anthracene	17.63	178	302682	53.744	ng	98
72) Carbazole	17.90	167	263009	45.078	ng	# 95
73) Di-n-butylphthalate	18.42	149	384615	52.902	ng	# 95
74) Fluoranthene	19.53	202	345917	53.515	ng	98
76) Benzidine	19.72	184	113630	31.686	ng	98
77) Pyrene	19.89	202	356168	46.312	ng	98
79) Butylbenzylphthalate	20.75	149	188121	48.151	ng	# 77
80) Benzo(a)anthracene	21.61	228	407176	51.514	ng	98
81) 3,3'-Dichlorobenzidine	21.54	252	84584	26.568	ng	97
82) Chrysene	21.66	228	384362	50.693	ng	99
83) Bis(2-ethylhexyl)phthalate	21.50	149	273166	48.245	ng	93
84) Di-n-octyl phthalate	22.40	149	489706	51.460	ng	# 87
85) Indeno(1,2,3-cd)pyrene	26.34	276	505496	56.182	ng	97
87) Benzo(b)fluoranthene	23.25	252	429159	54.734	ng	# 94
88) Benzo(k)fluoranthene	23.30	252	404694	50.929	ng	# 96
89) Benzo(a)pyrene	23.86	252	411575	54.603	ng	97
90) Dibenzo(a,h)anthracene	26.34	278	429126	54.949	ng	# 94
91) Benzo(g,h,i)perylene	27.07	276	399652	54.108	ng	# 91

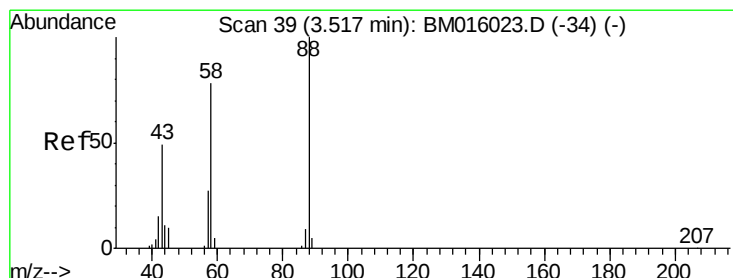
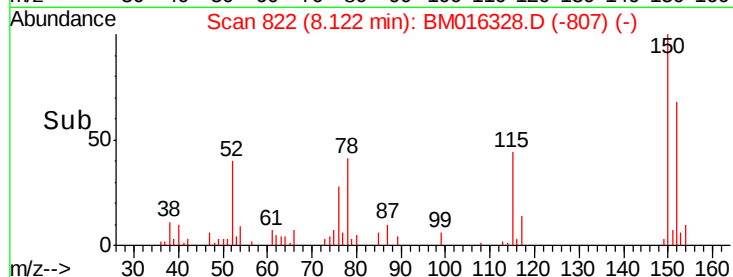
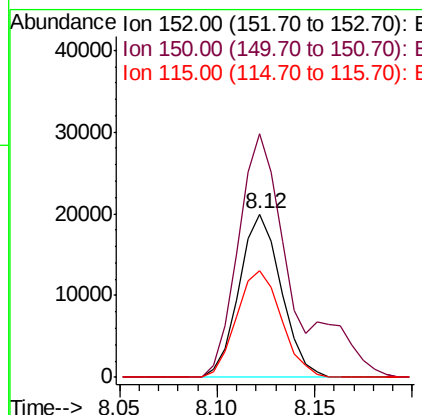
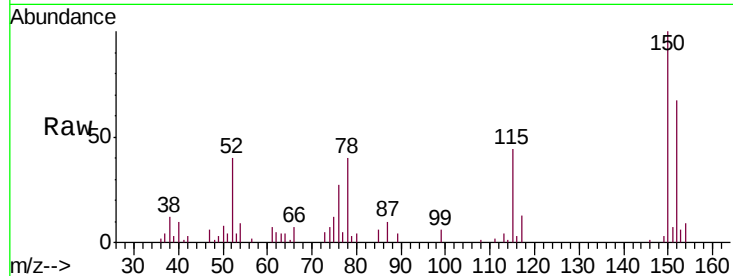
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 8.12 min Scan# 822
 Delta R.T. -0.01 min
 Lab File: BM016328.D
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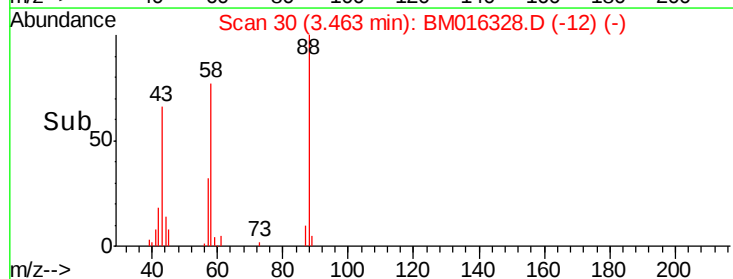
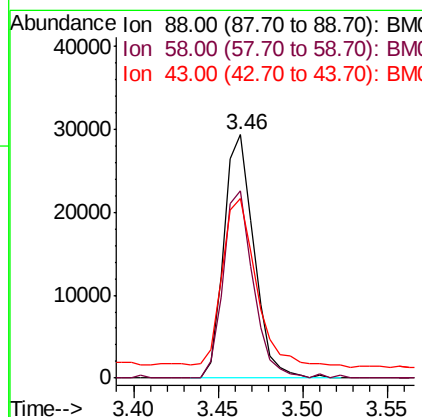
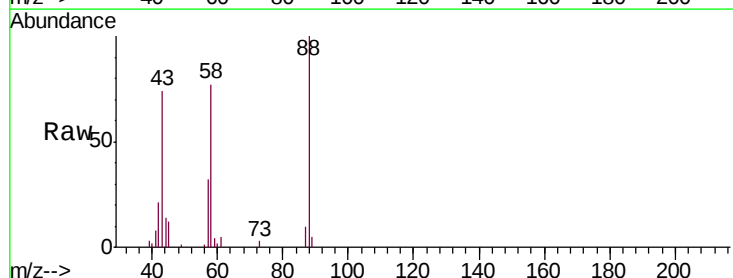
Instrument :
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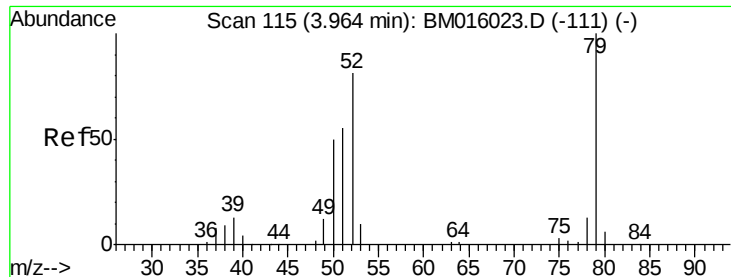
Tgt Ion:152 Resp: 29871
 Ion Ratio Lower Upper
 152 100
 150 149.1 119.5 179.3
 115 65.2 43.0 64.4#



#2
 1,4-Dioxane
 Concen: 43.342 ng
 RT: 3.46 min Scan# 30
 Delta R.T. 0.01 min
 Lab File: BM016328.D
 Acq: 13 Aug 2018 16:46

Tgt Ion: 88 Resp: 36517
 Ion Ratio Lower Upper
 88 100
 58 76.8 0.0 0.0#
 43 80.2 0.0 0.0#





#3

Pyridine

Concen: 33.108 ng

RT: 3.90 min Scan# 104

Delta R.T. 0.01 min

Lab File: BM016328.D

Acq: 13 Aug 2018 16:46

Instrument :

BNA_M

ClientSampleId :

EXCAVATION-SOILMSD

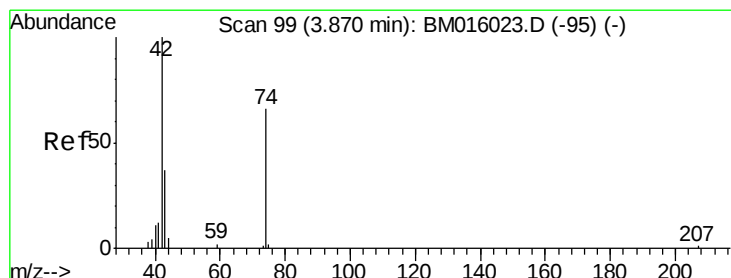
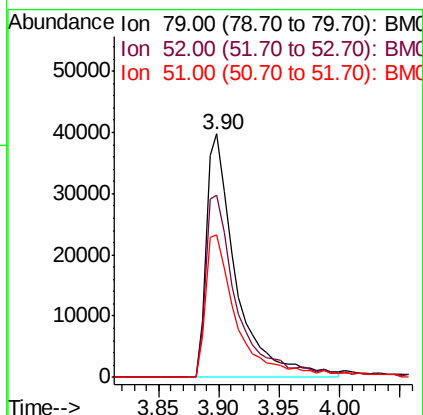
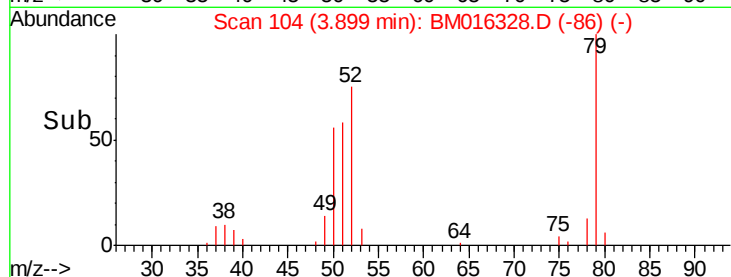
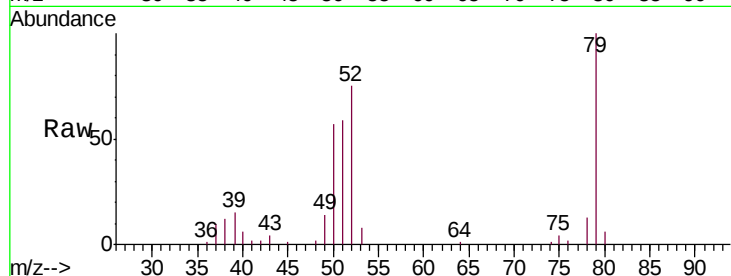
Tgt Ion: 79 Resp: 67198

Ion Ratio Lower Upper

79 100

52 75.0 51.1 76.7

51 58.8 26.1 39.1#



#4

n-Nitrosodimethylamine

Concen: 57.498 ng

RT: 3.80 min Scan# 88

Delta R.T. -0.01 min

Lab File: BM016328.D

Acq: 13 Aug 2018 16:46

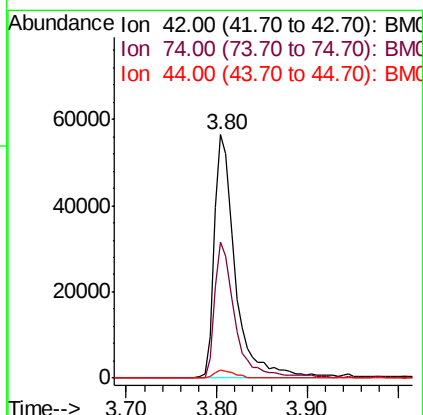
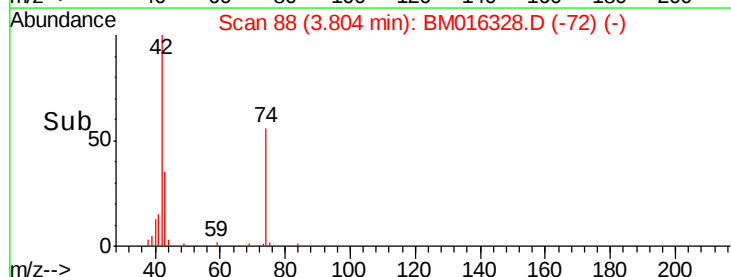
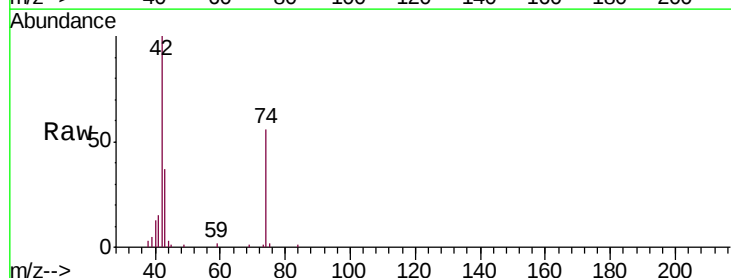
Tgt Ion: 42 Resp: 91025

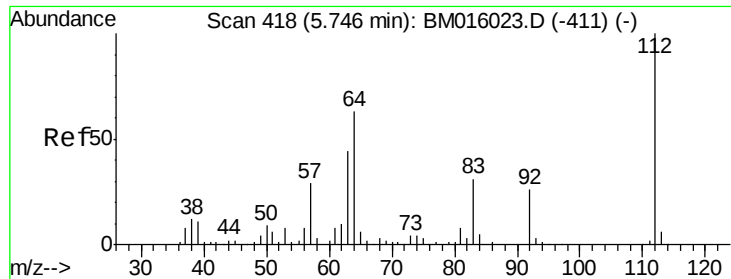
Ion Ratio Lower Upper

42 100

74 56.0 119.3 178.9#

44 3.3 5.4 8.2#

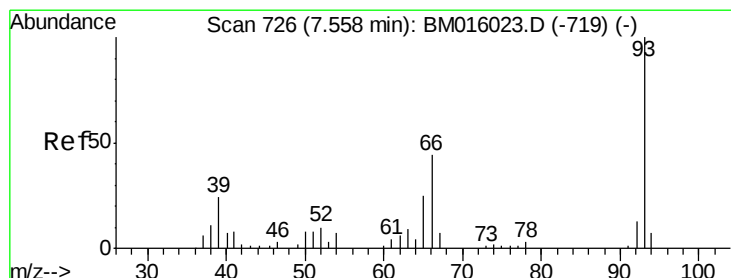
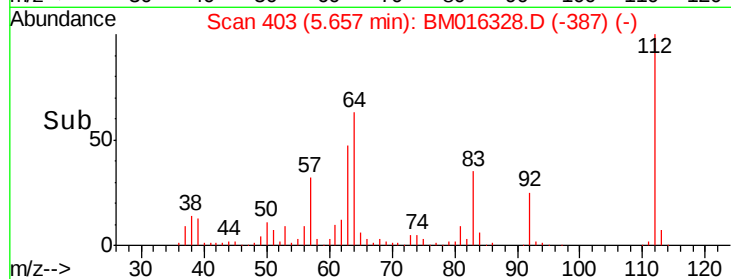
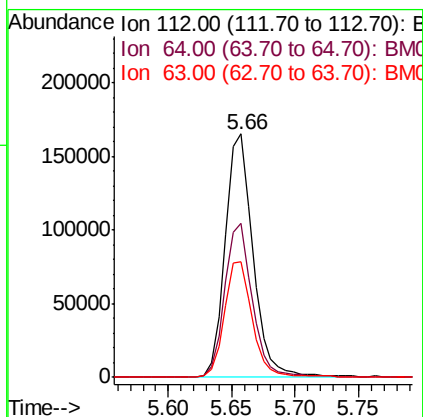
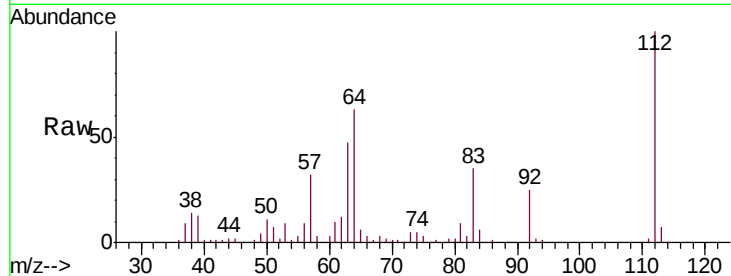




#5
 2-Fluorophenol
 Concen: 57.498 ng
 RT: 5.66 min Scan# 403
 Delta R.T. -0.01 min
 Lab File: BM016328.D
 Acq: 13 Aug 2018 16:46

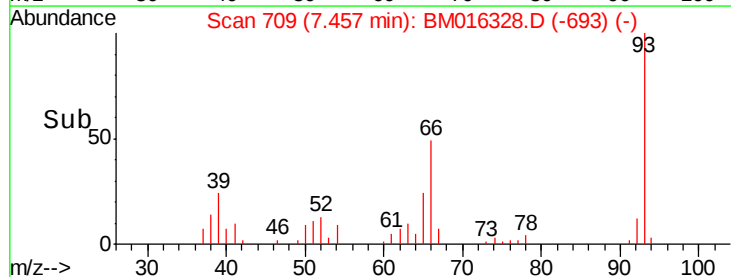
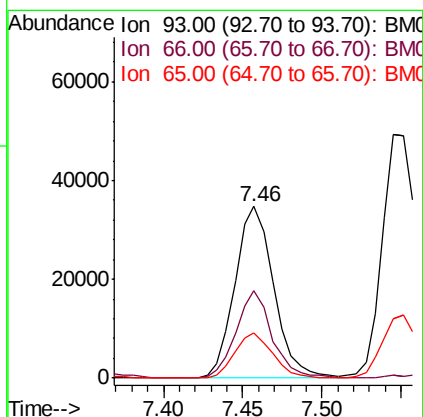
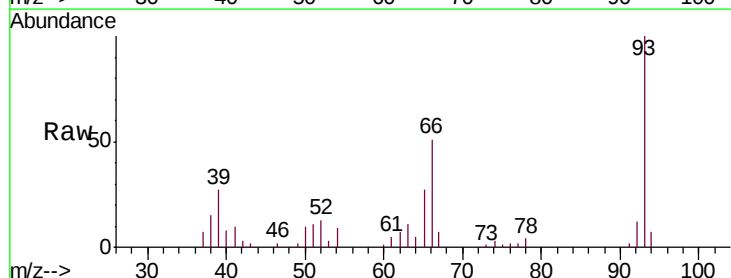
Instrument :
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 ClientSampleId :
 EXCAVATION-SOILMSD

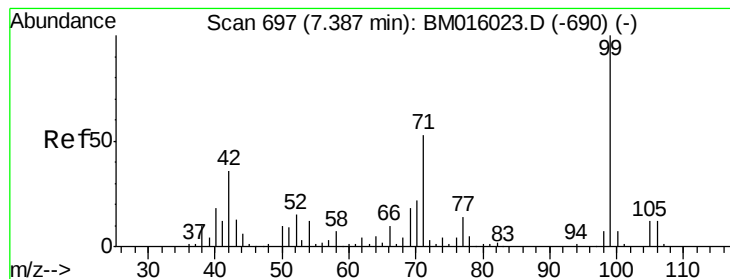
Tgt Ion: 112 Resp: 251727
 Ion Ratio Lower Upper
 112 100
 64 63.3 38.6 57.8#
 63 47.3 19.3 28.9#



#6
 Aniline
 Concen: 21.892 ng
 RT: 7.46 min Scan# 709
 Delta R.T. -0.01 min
 Lab File: BM016328.D
 Acq: 13 Aug 2018 16:46

Tgt Ion: 93 Resp: 59194
 Ion Ratio Lower Upper
 93 100
 66 51.2 30.8 46.2#
 65 26.5 16.0 24.0#





#7

Phenol-d6

Concen: 21.892 ng

RT: 7.30 min Scan# 682

Delta R.T. -0.01 min

Lab File: BM016328.D

Acq: 13 Aug 2018 16:46

Instrument :

BNA_M

ClientSampleId :

EXCAVATION-SOILMSD

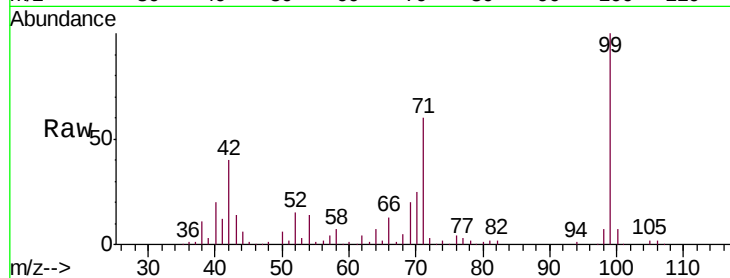
Tgt Ion: 99 Resp: 262032

Ion Ratio Lower Upper

99 100

42 40.0 11.0 16.4#

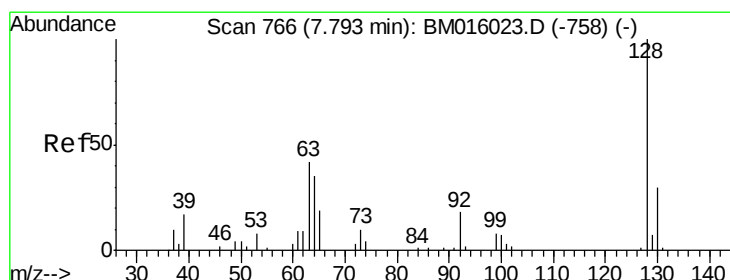
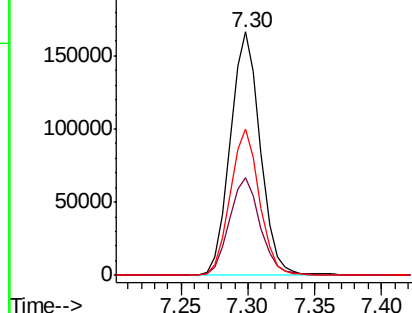
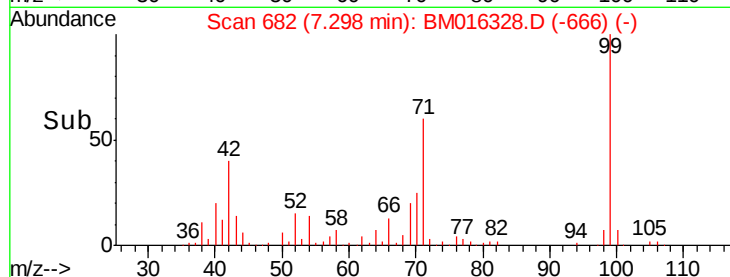
71 60.2 23.4 35.2#



Abundance Ion 99.00 (98.70 to 99.70): BM016328.D (-666) (-)

Ion 42.00 (41.70 to 42.70): BM016328.D (-666) (-)

Ion 71.00 (70.70 to 71.70): BM016328.D (-666) (-)



#8

2-Chlorophenol

Concen: 42.703 ng

RT: 7.69 min Scan# 748

Delta R.T. -0.01 min

Lab File: BM016328.D

Acq: 13 Aug 2018 16:46

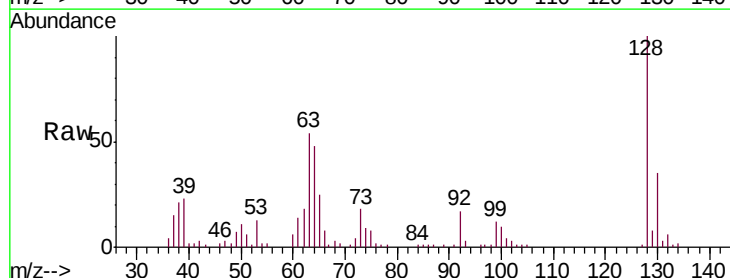
Tgt Ion: 128 Resp: 91265

Ion Ratio Lower Upper

128 100

130 35.0 12.0 52.0

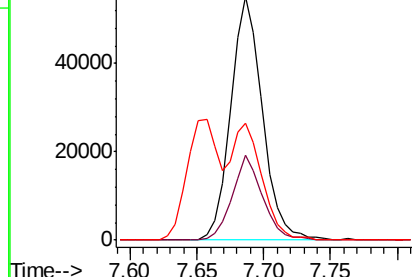
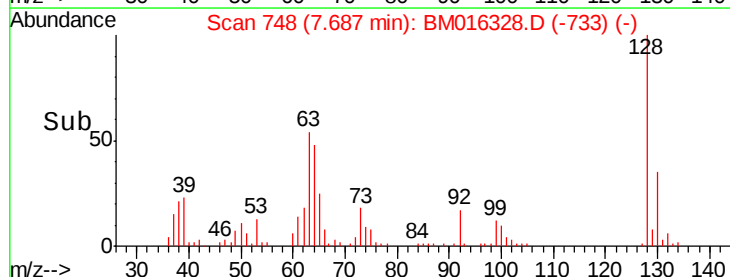
64 47.9 24.9 64.9

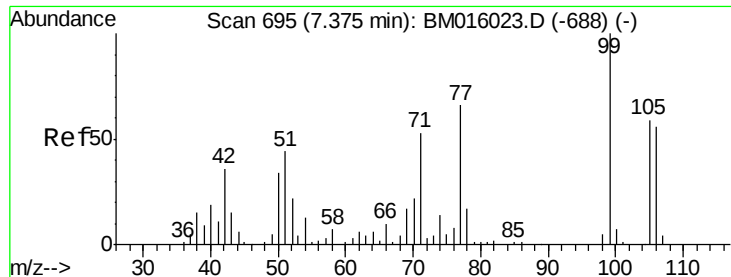


Abundance Ion 128.00 (127.70 to 128.70): BM016328.D (-733) (-)

Ion 130.00 (129.70 to 130.70): BM016328.D (-733) (-)

Ion 64.00 (63.70 to 64.70): BM016328.D (-733) (-)

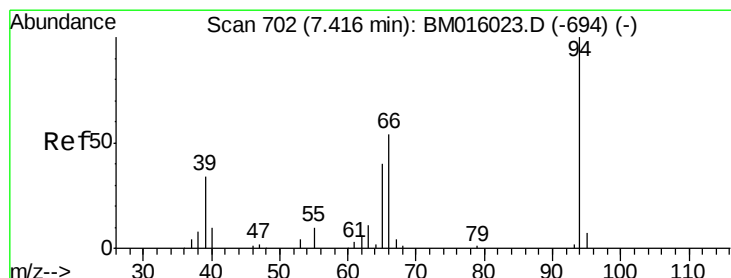
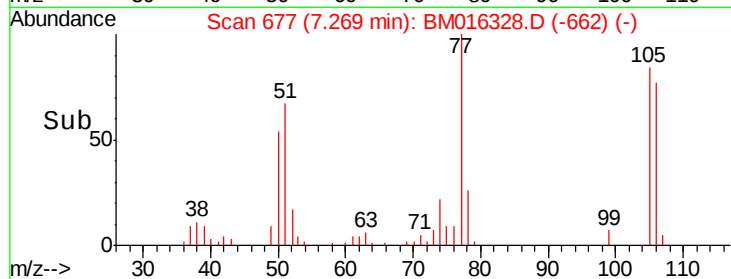
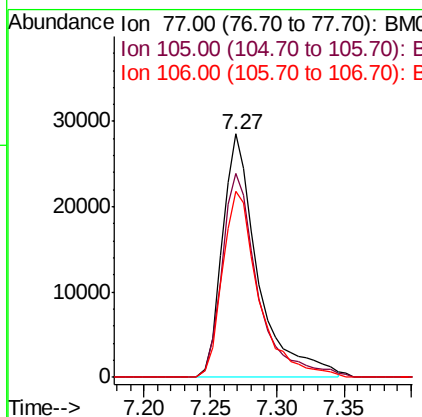
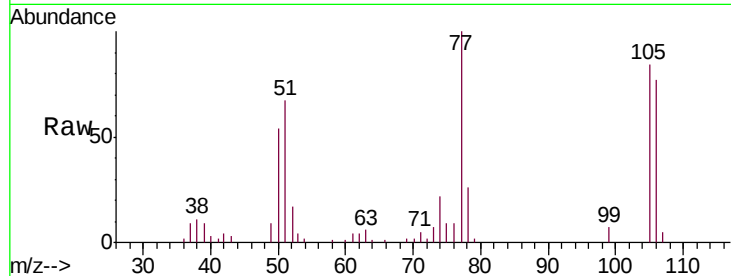




#9
Benzaldehyde
Concen: 32.438 ng
RT: 7.27 min Scan# 677
Delta R.T. -0.01 min
Lab File: BM016328.D
Acq: 13 Aug 2018 16:46

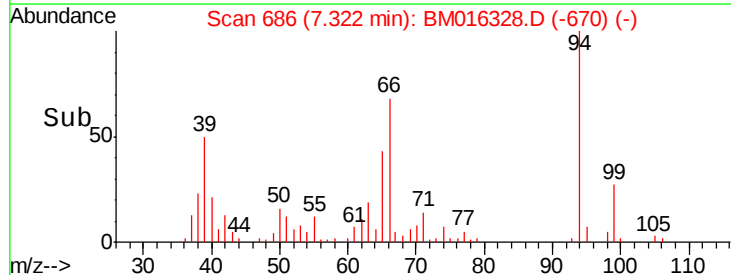
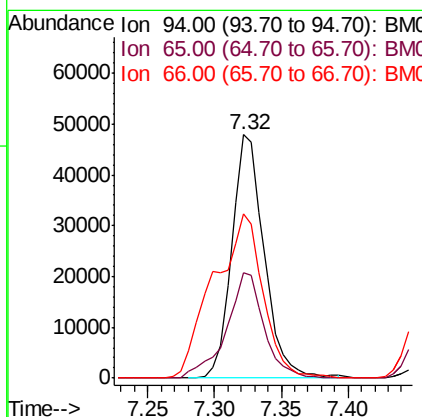
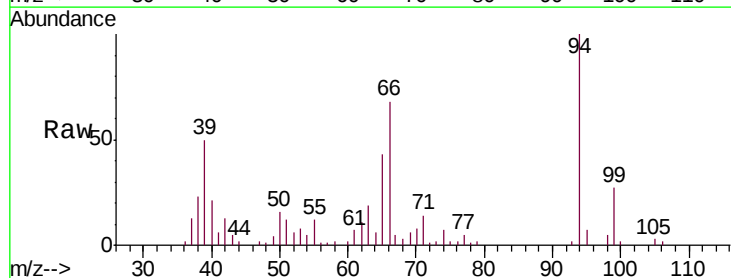
Instrument :
BNA_M
ClientSampleId :
EXCAVATION-SOILMSD

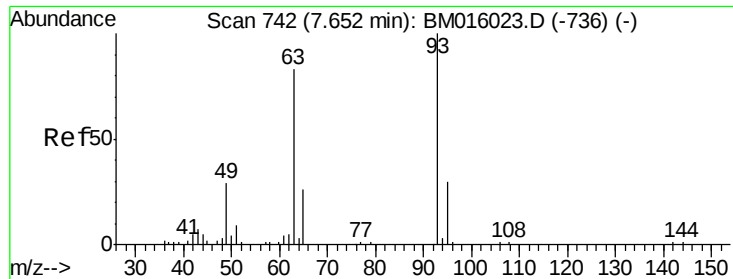
Tgt Ion: 77 Resp: 53521
Ion Ratio Lower Upper
77 100
105 83.7 78.8 118.8
106 76.5 73.7 113.7



#10
Phenol
Concen: 34.389 ng
RT: 7.32 min Scan# 686
Delta R.T. -0.01 min
Lab File: BM016328.D
Acq: 13 Aug 2018 16:46

Tgt Ion: 94 Resp: 80753
Ion Ratio Lower Upper
94 100
65 43.1 18.8 58.8
66 67.6 39.9 79.9

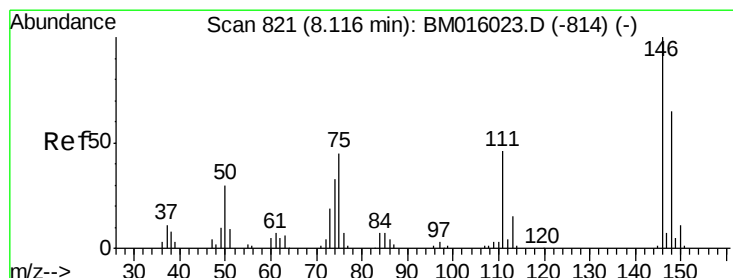
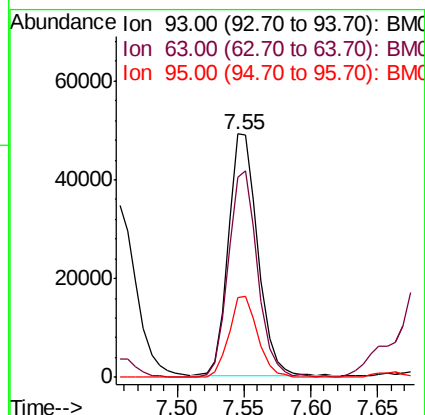
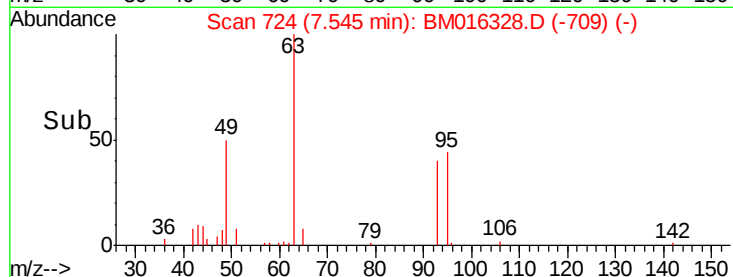
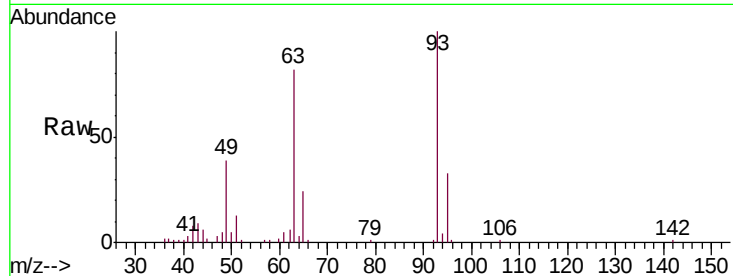




#11
 bis(2-Chloroethyl)ether
 Concen: 40.852 ng
 RT: 7.55 min Scan# 724
 Delta R.T. -0.01 min
 Lab File: BM016328.D
 Acq: 13 Aug 2018 16:46

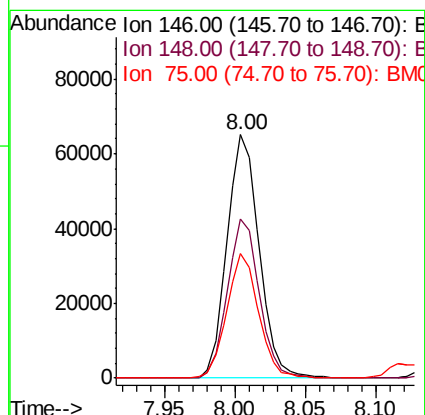
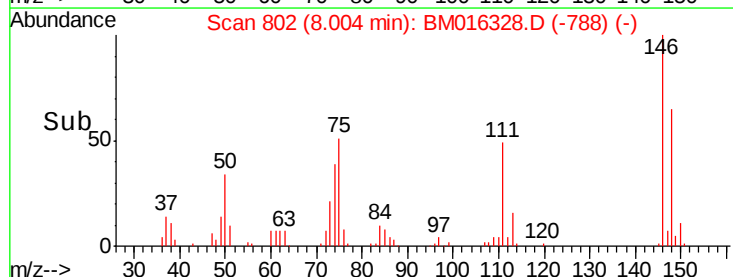
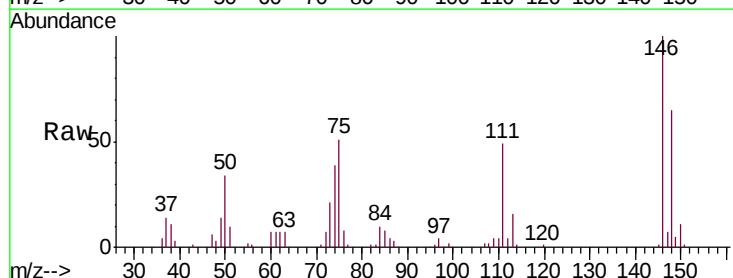
Instrument :
 BNA_M
 ClientSampleId :
 EXCAVATION-SOILMSD

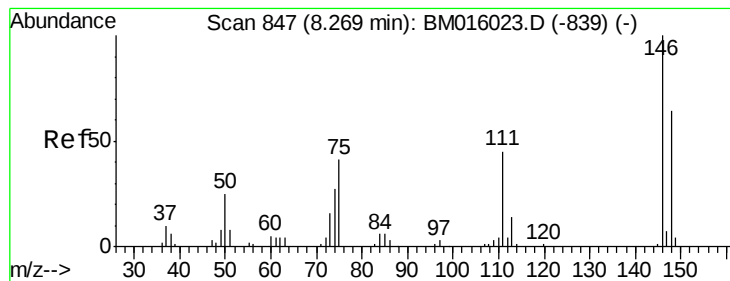
Tgt Ion: 93 Resp: 75784
 Ion Ratio Lower Upper
 93 100
 63 82.1 49.5 89.5
 95 32.5 13.5 53.5



#12
 1,3-Dichlorobenzene
 Concen: 41.269 ng
 RT: 8.00 min Scan# 802
 Delta R.T. -0.02 min
 Lab File: BM016328.D
 Acq: 13 Aug 2018 16:46

Tgt Ion: 146 Resp: 103240
 Ion Ratio Lower Upper
 146 100
 148 65.3 50.9 76.3
 75 51.0 21.4 32.2#





#13

1,4-Dichlorobenzene

Concen: 41.582 ng

RT: 8.16 min Scan# 828

Delta R.T. -0.01 min

Lab File: BM016328.D

Acq: 13 Aug 2018 16:46

Instrument :

BNA_M

ClientSampleId :

EXCAVATION-SOILMSD

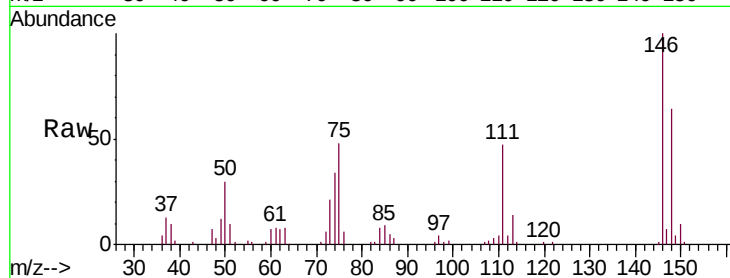
Tgt Ion:146 Resp: 105499

Ion Ratio Lower Upper

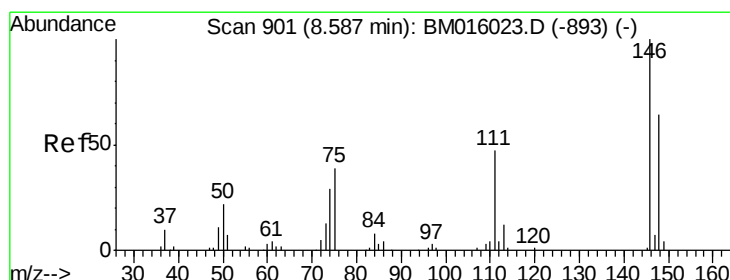
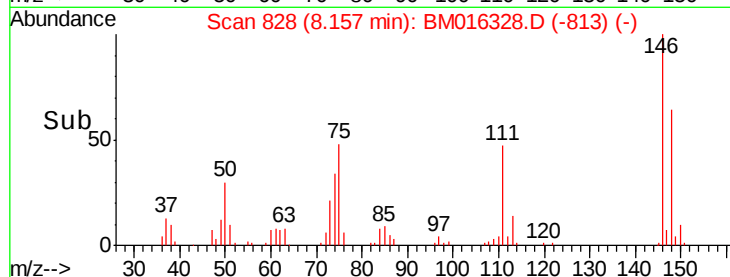
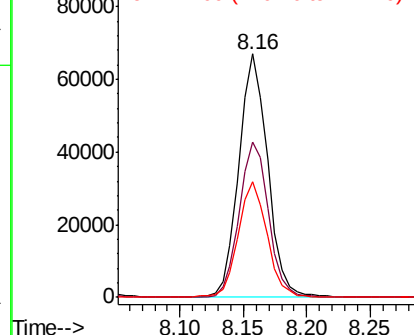
146 100

148 63.9 51.9 77.9

111 47.4 29.2 43.8#



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



#14

1,2-Dichlorobenzene

Concen: 41.187 ng

RT: 8.47 min Scan# 882

Delta R.T. -0.01 min

Lab File: BM016328.D

Acq: 13 Aug 2018 16:46

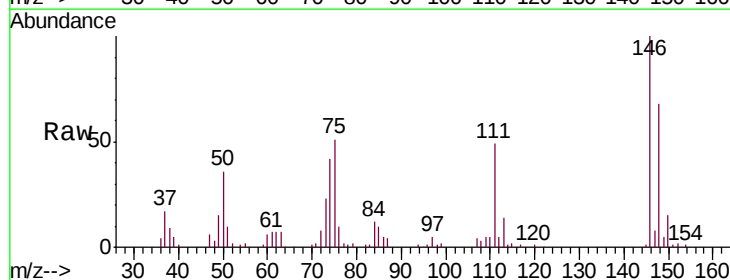
Tgt Ion:146 Resp: 102248

Ion Ratio Lower Upper

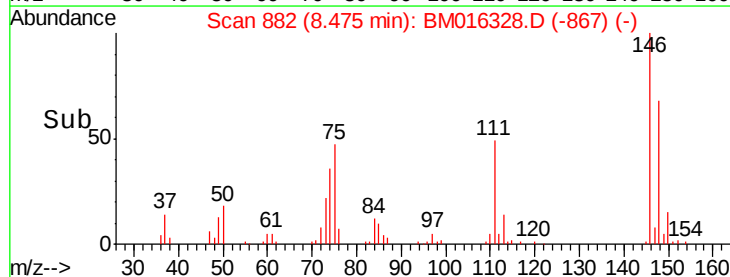
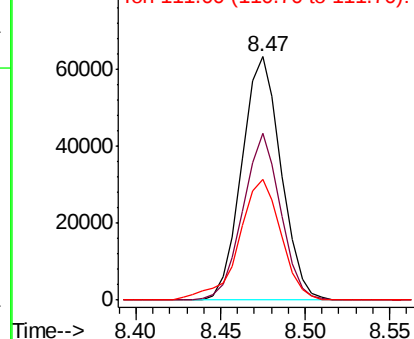
146 100

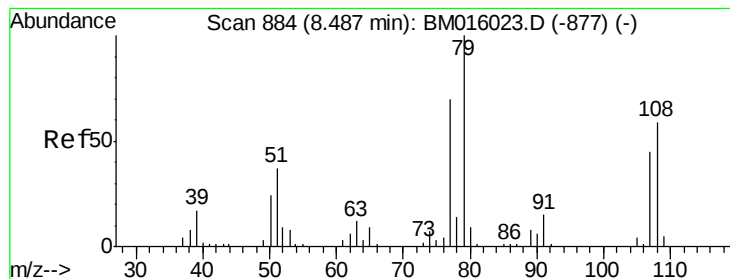
148 68.3 52.3 78.5

111 49.5 30.6 45.8#



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: 42.479 ng

RT: 8.38 min Scan# 866

Delta R.T. -0.01 min

Lab File: BM016328.D

Acq: 13 Aug 2018 16:46

Instrument :

BNA_M

ClientSampleId :

EXCAVATION-SOILMSD

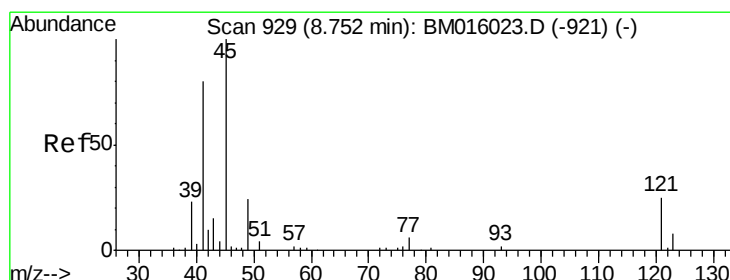
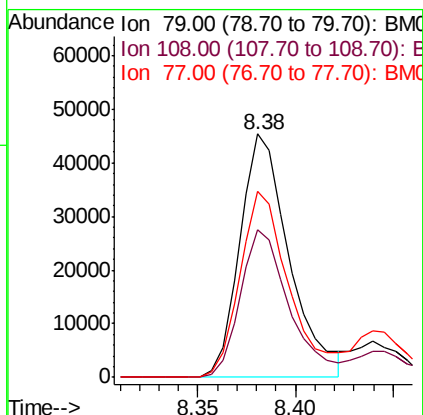
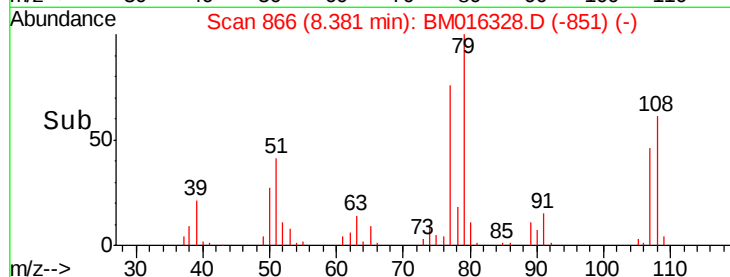
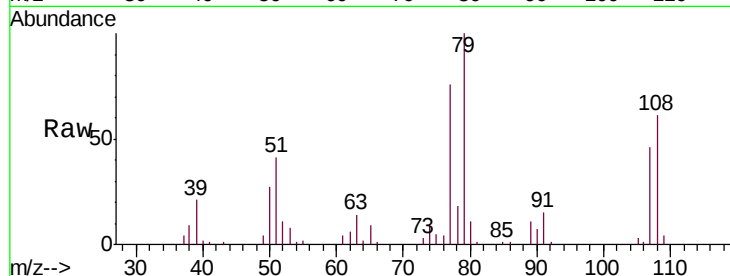
Tgt Ion: 79 Resp: 79432

Ion Ratio Lower Upper

79 100

108 60.6 65.0 97.4#

77 76.5 53.0 79.6



#16

2,2'-oxybis(1-Chloropropane)

Concen: 35.815 ng

RT: 8.65 min Scan# 911

Delta R.T. -0.02 min

Lab File: BM016328.D

Acq: 13 Aug 2018 16:46

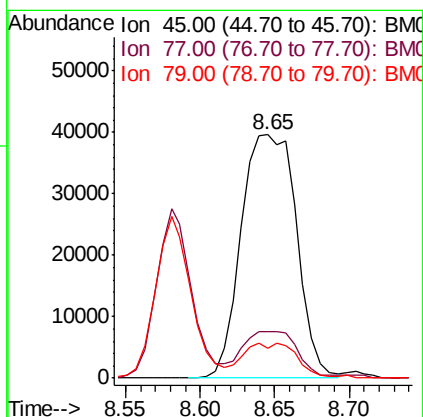
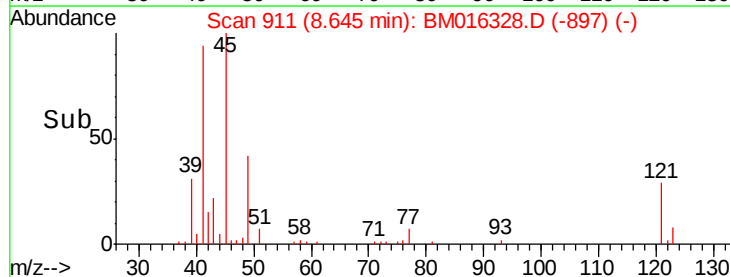
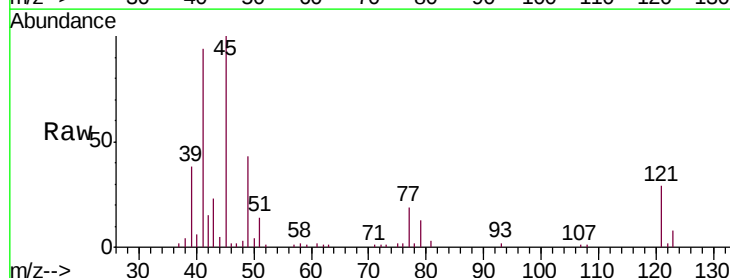
Tgt Ion: 45 Resp: 101686

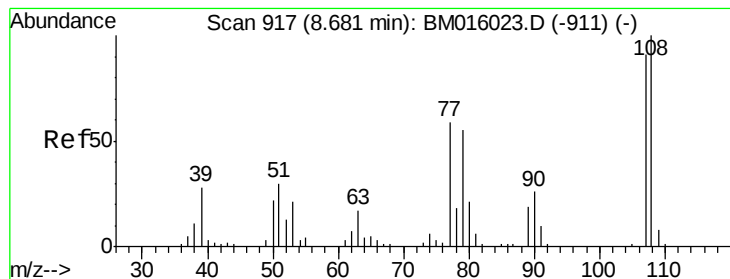
Ion Ratio Lower Upper

45 100

77 18.9 0.0 35.2

79 12.5 0.0 32.0





#17

2-Methylphenol

Concen: 41.298 ng

RT: 8.58 min Scan# 900

Delta R.T. -0.01 min

Lab File: BM016328.D

Acq: 13 Aug 2018 16:46

Instrument :

BNA_M

ClientSampleId :

EXCAVATION-SOILMSD

Tgt Ion:107 Resp: 66284

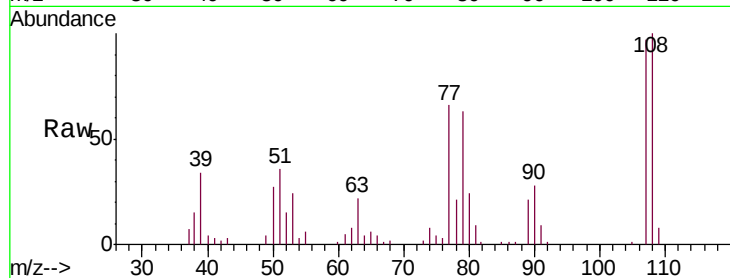
Ion Ratio Lower Upper

107 100

108 103.4 89.8 134.8

77 68.6 32.6 48.8#

79 65.6 32.8 49.2#



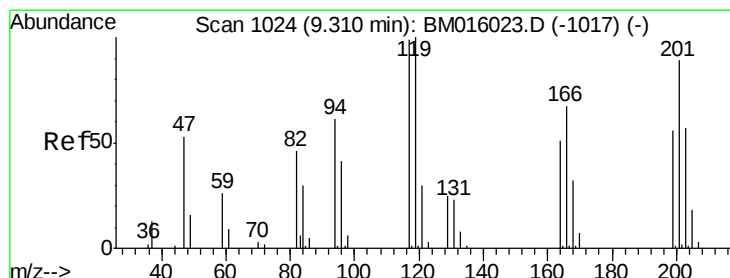
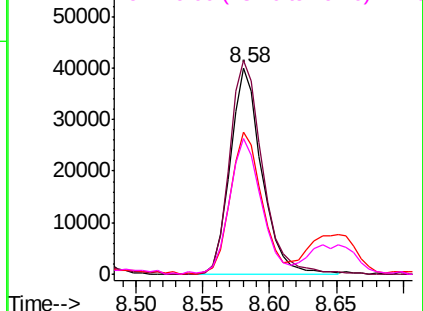
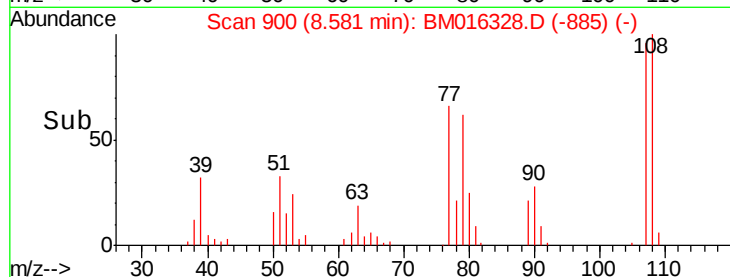
Abundance

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: 47.979 ng

RT: 9.19 min Scan# 1004

Delta R.T. -0.02 min

Lab File: BM016328.D

Acq: 13 Aug 2018 16:46

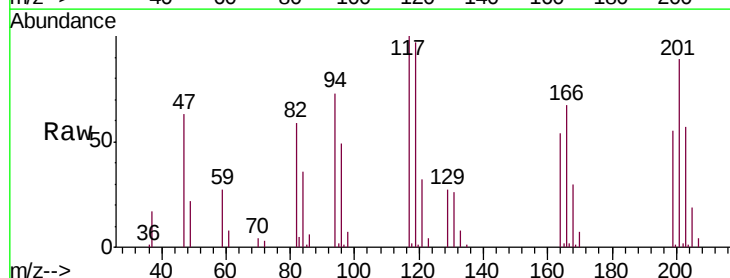
Tgt Ion:117 Resp: 52620

Ion Ratio Lower Upper

117 100

119 97.1 79.2 118.8

201 89.2 69.8 104.6

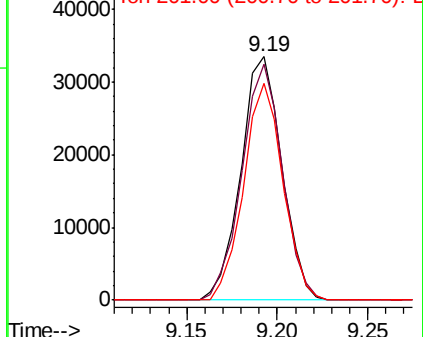
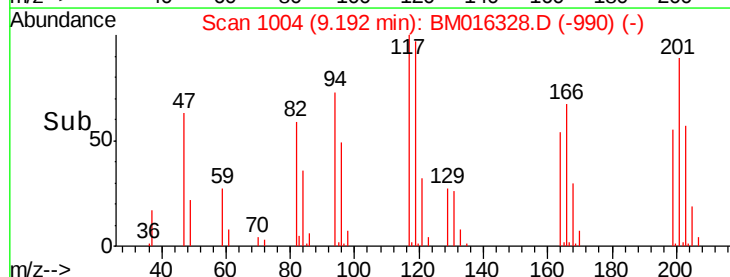


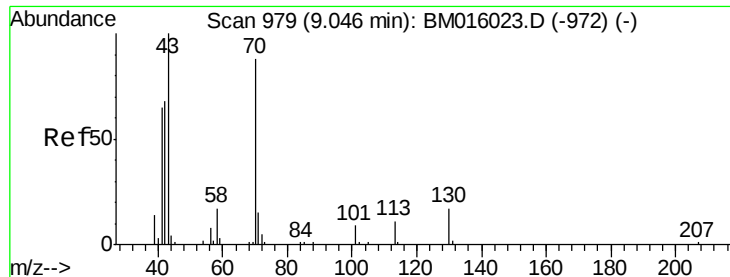
Abundance

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

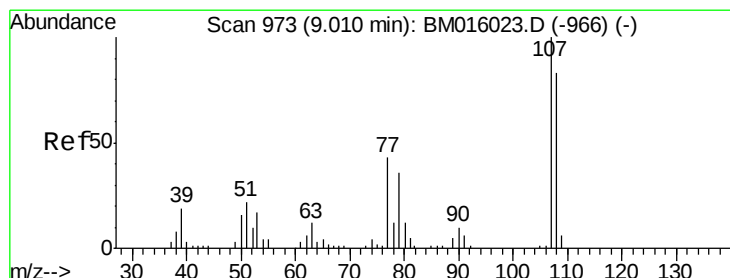
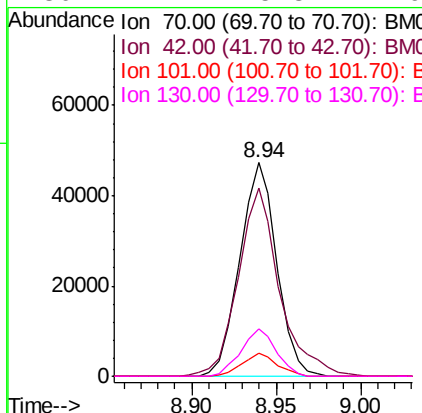
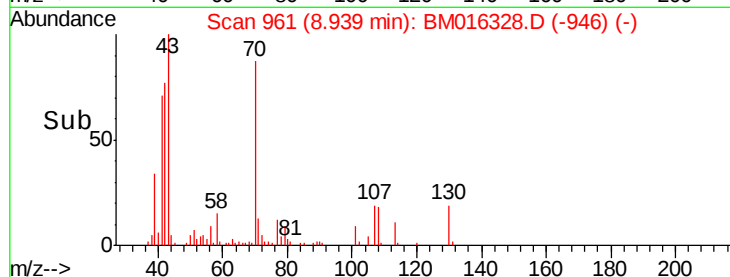
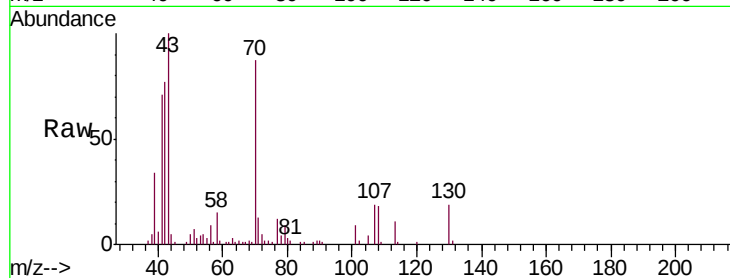




#19
n-Nitroso-di-n-propylamine
Concen: 41.875 ng
RT: 8.94 min Scan# 961
Delta R.T. -0.01 min
Lab File: BM016328.D
Acq: 13 Aug 2018 16:46

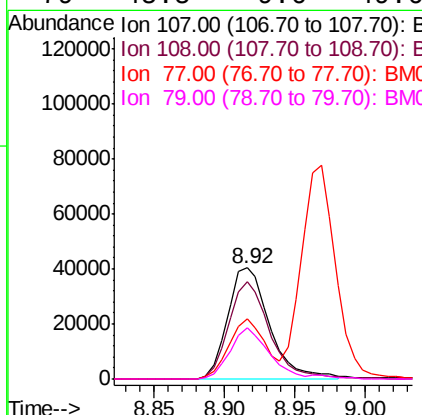
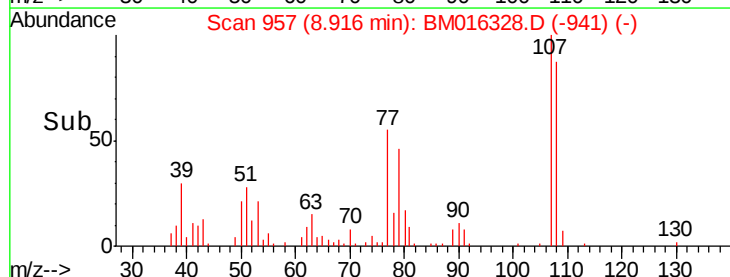
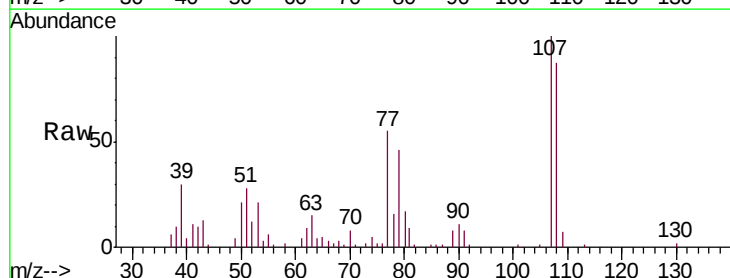
Instrument :
BNA_M
ClientSampleId :
EXCAVATION-SOILMSD

Tgt Ion:	70	Resp:	71877
Ion	Ratio	Lower	Upper
70	100		
42	87.9	44.5	66.7#
101	10.8	7.4	11.2
130	22.1	15.3	22.9



#20
3+4-Methylphenols
Concen: 36.124 ng
RT: 8.92 min Scan# 957
Delta R.T. -0.01 min
Lab File: BM016328.D
Acq: 13 Aug 2018 16:46

Tgt Ion:	107	Resp:	83419
Ion	Ratio	Lower	Upper
107	100		
108	87.3	73.2	113.2
77	54.6	10.7	50.7#
79	45.5	9.6	49.6

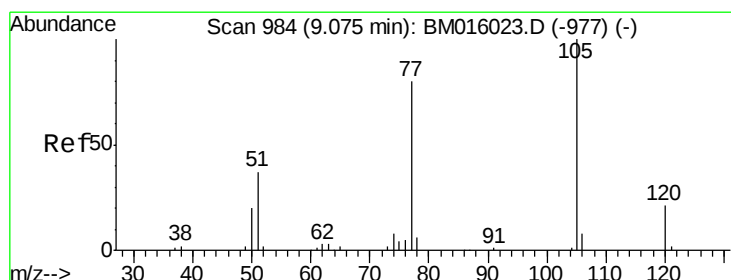
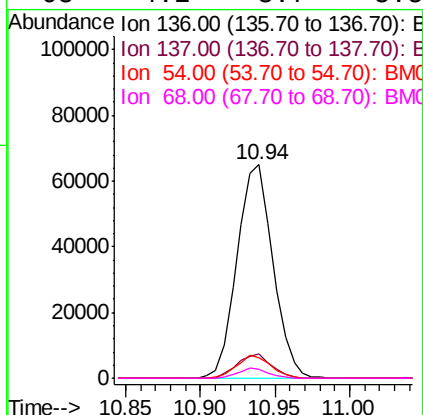
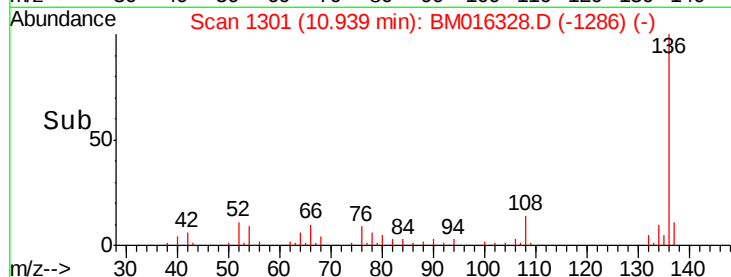
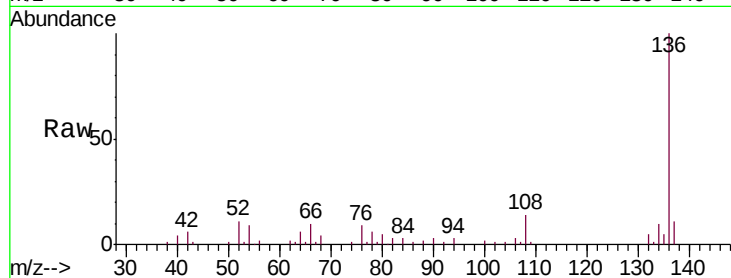




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.94 min Scan# 1301
Delta R.T. -0.01 min
Lab File: BM016328.D
Acq: 13 Aug 2018 16:46

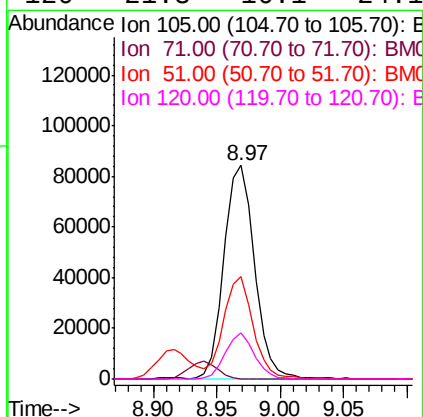
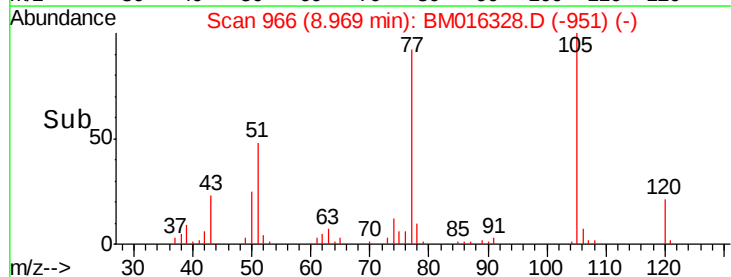
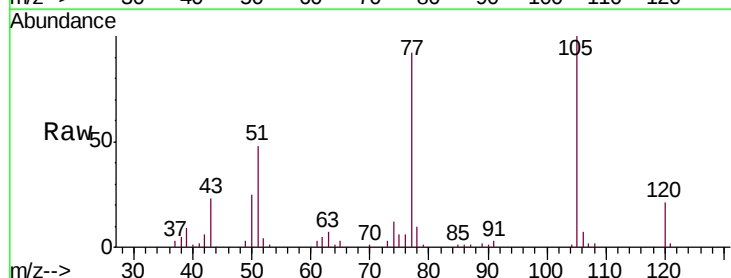
Instrument :
BNA_M
ClientSampleId :
EXCAVATION-SOILMSD

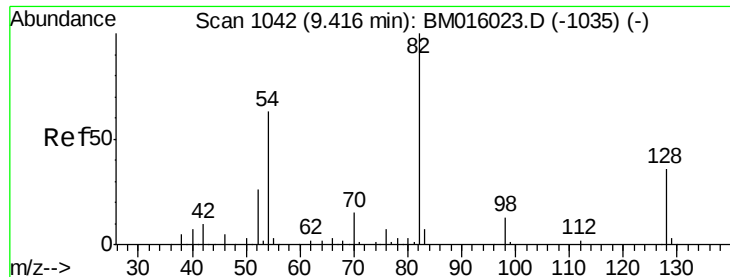
Tgt Ion:	136	Resp:	108736
Ion	Ratio	Lower	Upper
136	100		
137	11.3	8.7	13.1
54	9.4	4.6	6.8#
68	4.2	3.7	5.5



#22
Acetophenone
Concen: 51.848 ng
RT: 8.97 min Scan# 966
Delta R.T. -0.01 min
Lab File: BM016328.D
Acq: 13 Aug 2018 16:46

Tgt Ion:	105	Resp:	141960
Ion	Ratio	Lower	Upper
105	100		
71	0.0	0.6	1.0#
51	47.9	21.6	32.4#
120	21.3	16.1	24.1

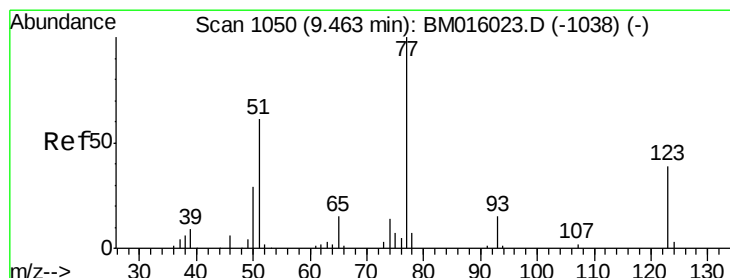
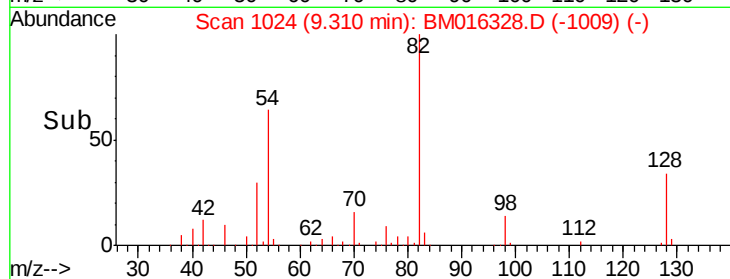
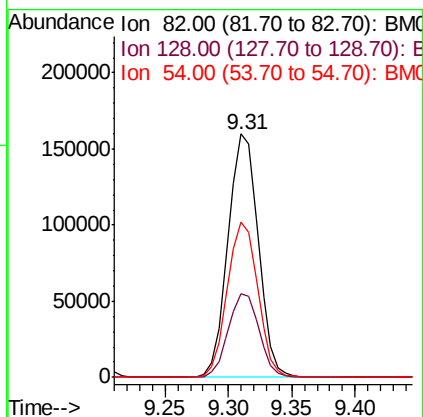
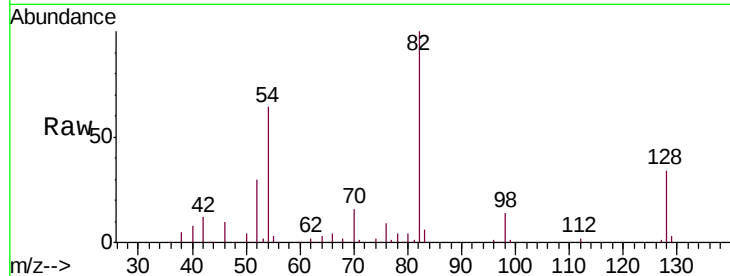




#23
 Nitrobenzene-d5
 Concen: 51.848 ng
 RT: 9.31 min Scan# 1024
 Delta R.T. -0.01 min
 Lab File: BM016328.D
 Acq: 13 Aug 2018 16:46

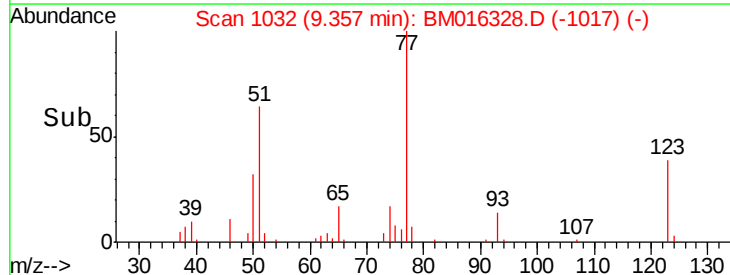
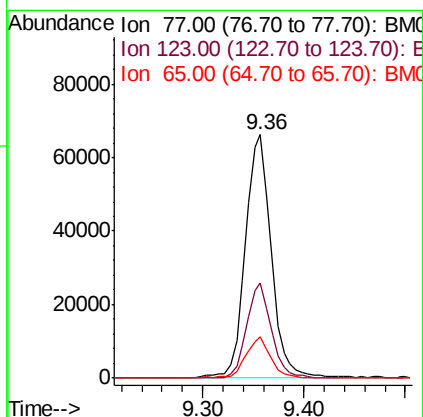
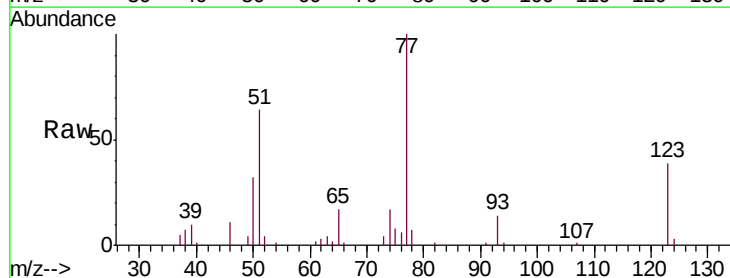
Instrument :
 BNA_M
 ClientSampleId :
 EXCAVATION-SOILMSD

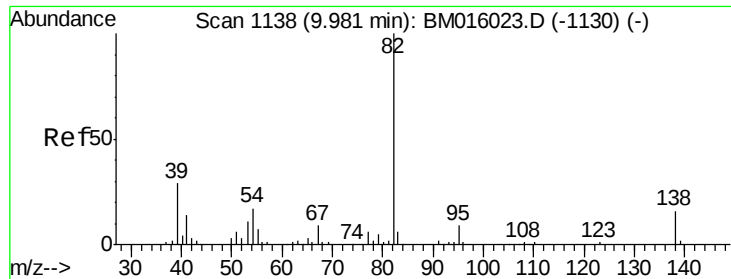
Tgt Ion: 82 Resp: 264597
 Ion Ratio Lower Upper
 82 100
 128 34.3 32.8 49.2
 54 63.8 40.6 60.8#



#24
 Nitrobenzene
 Concen: 50.148 ng
 RT: 9.36 min Scan# 1032
 Delta R.T. -0.01 min
 Lab File: BM016328.D
 Acq: 13 Aug 2018 16:46

Tgt Ion: 77 Resp: 118010
 Ion Ratio Lower Upper
 77 100
 123 39.2 32.6 49.0
 65 16.8 10.9 16.3#

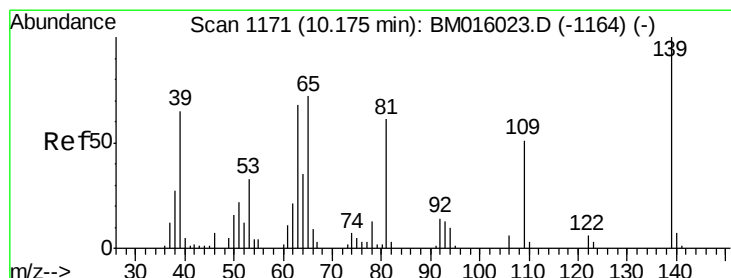
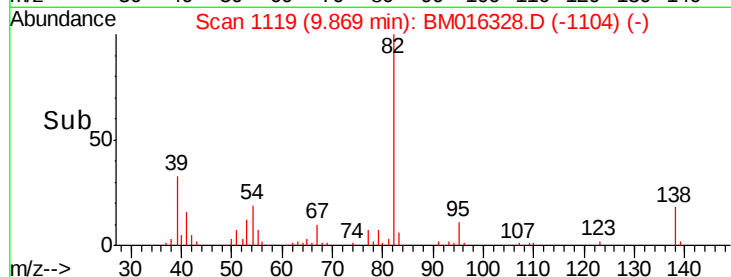
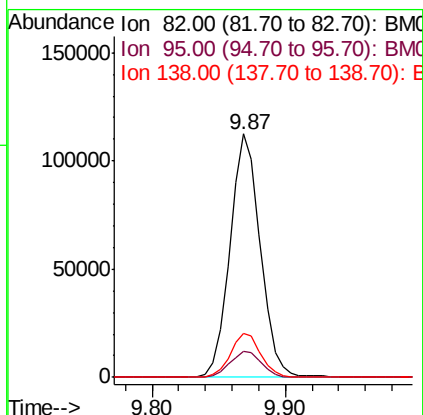
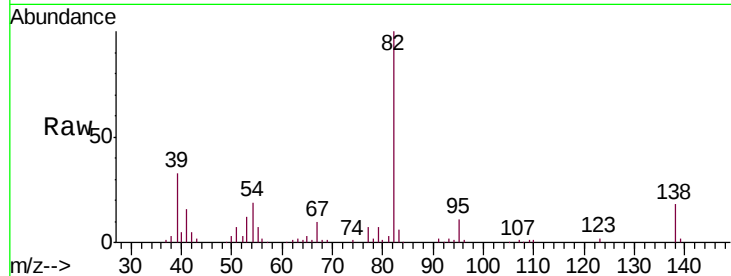




#25
Isophorone
Concen: 55.578 ng
RT: 9.87 min Scan# 1119
Delta R.T. -0.01 min
Lab File: BM016328.D
Acq: 13 Aug 2018 16:46

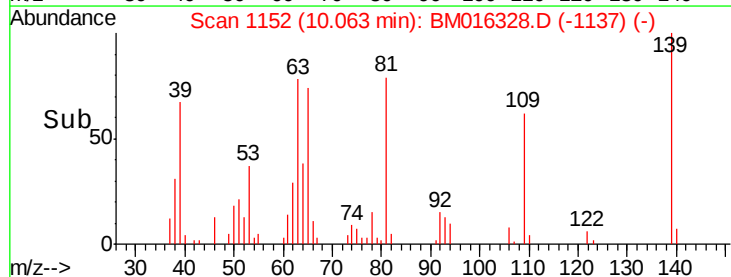
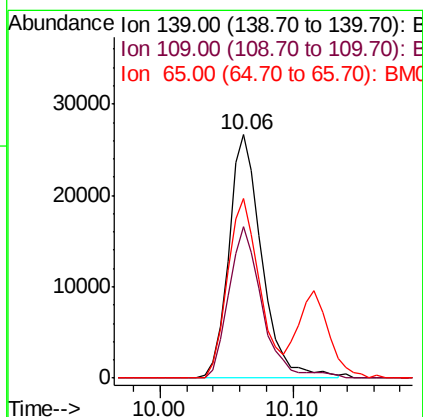
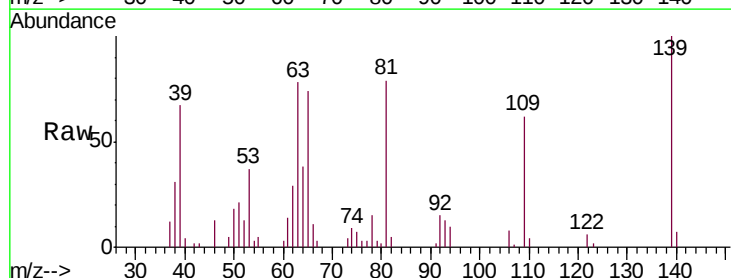
Instrument :
BNA_M
ClientSampleId :
EXCAVATION-SOILMSD

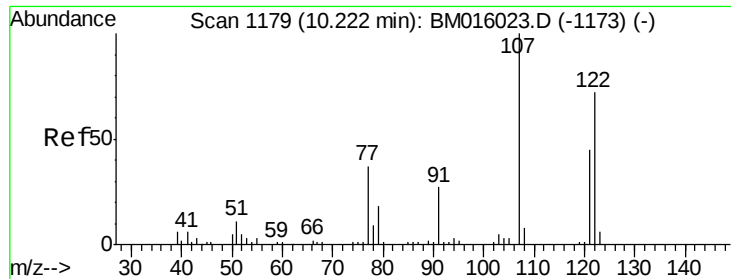
Tgt Ion: 82 Resp: 177727
Ion Ratio Lower Upper
82 100
95 10.9 5.8 8.6#
138 18.1 16.3 24.5



#26
2-Nitrophenol
Concen: 46.606 ng
RT: 10.06 min Scan# 1152
Delta R.T. -0.01 min
Lab File: BM016328.D
Acq: 13 Aug 2018 16:46

Tgt Ion: 139 Resp: 45783
Ion Ratio Lower Upper
139 100
109 62.3 20.1 30.1#
65 73.7 31.5 47.3#

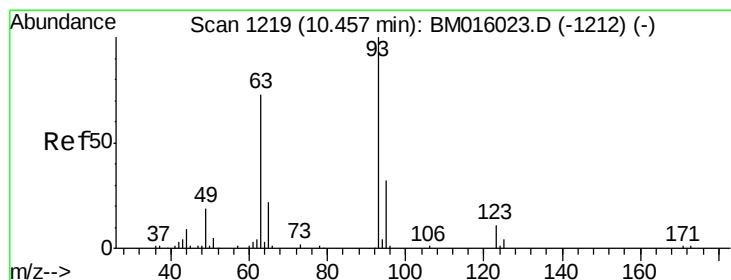
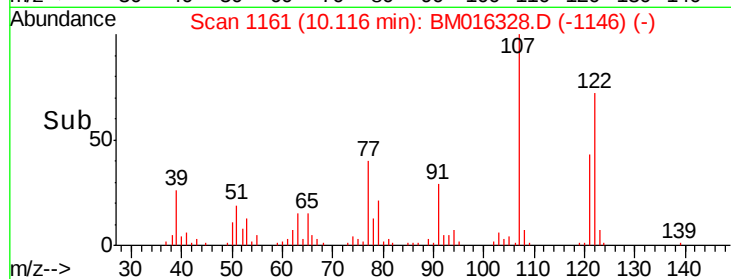
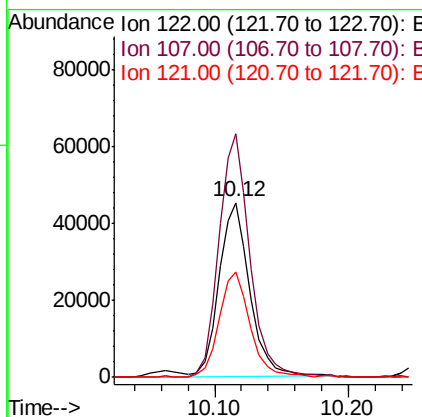
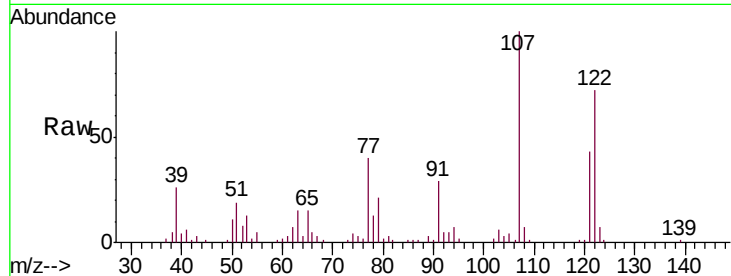




#27
 2,4-Dimethylphenol
 Concen: 53.320 ng
 RT: 10.12 min Scan# 1161
 Delta R.T. -0.01 min
 Lab File: BM016328.D
 Acq: 13 Aug 2018 16:46

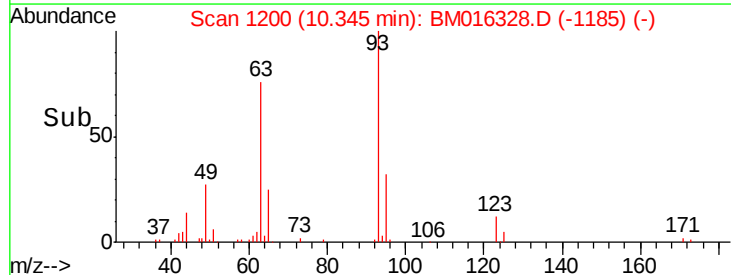
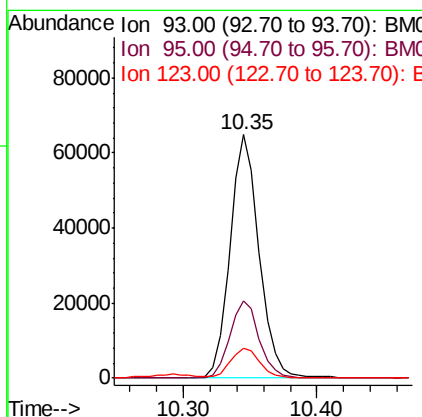
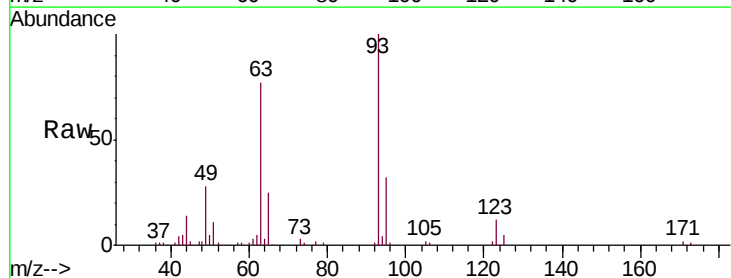
Instrument :
 BNA_M
 ClientSampleId :
 EXCAVATION-SOILMSD

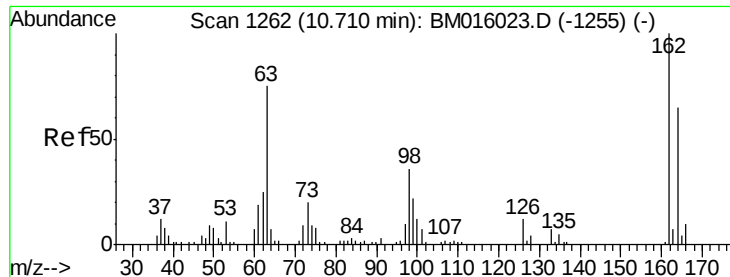
Tgt Ion:122 Resp: 72973
 Ion Ratio Lower Upper
 122 100
 107 139.4 84.7 127.1#
 121 60.4 46.6 69.8



#28
 bis(2-Chloroethoxy)methane
 Concen: 47.276 ng
 RT: 10.35 min Scan# 1200
 Delta R.T. -0.01 min
 Lab File: BM016328.D
 Acq: 13 Aug 2018 16:46

Tgt Ion: 93 Resp: 98260
 Ion Ratio Lower Upper
 93 100
 95 31.8 25.5 38.3
 123 12.3 8.6 13.0

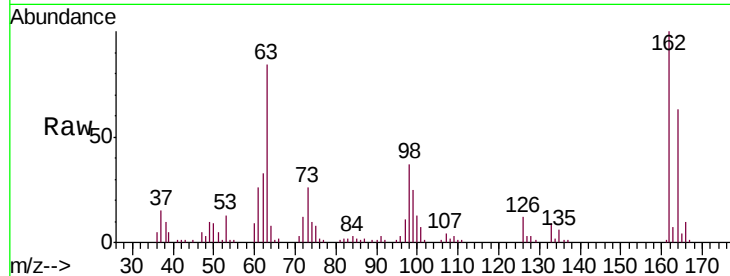




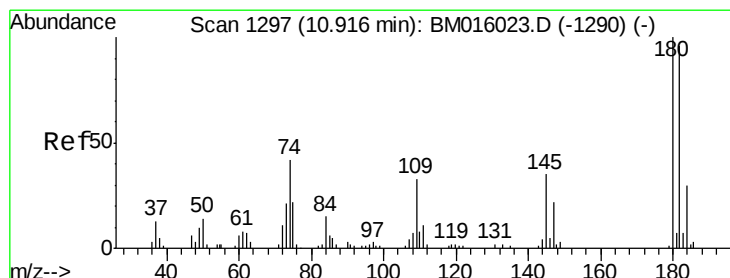
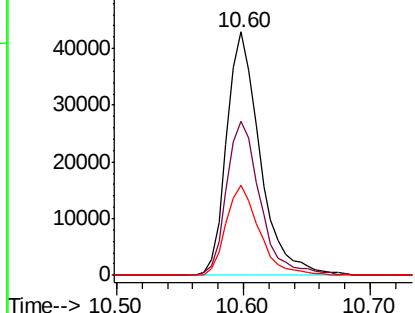
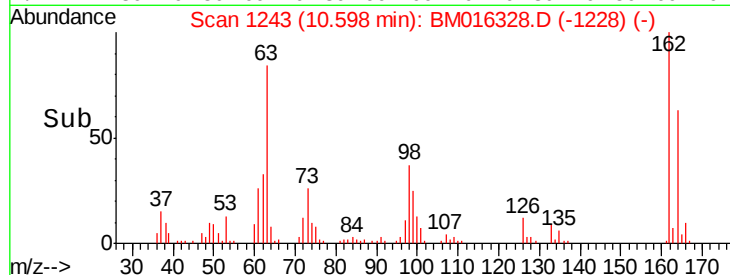
#29
 2,4-Dichlorophenol
 Concen: 48.341 ng
 RT: 10.60 min Scan# 1243
 Delta R.T. -0.01 min
 Lab File: BM016328.D
 Acq: 13 Aug 2018 16:46

Instrument :
 BNA_M
 ClientSampleId :
 EXCAVATION-SOILMSD

Tgt Ion:162 Resp: 78616
 Ion Ratio Lower Upper
 162 100
 164 63.1 42.8 82.8
 98 37.0 14.5 54.5

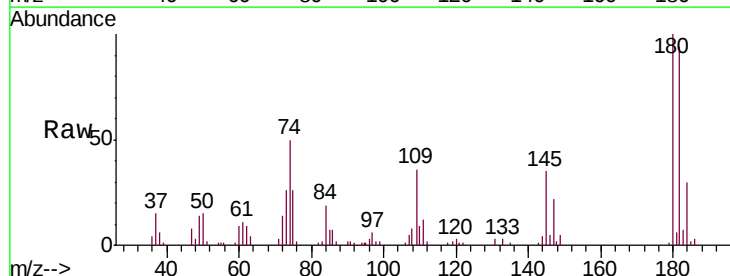


Abundance Ion 162.00 (161.70 to 162.70): E
 Ion 164.00 (163.70 to 164.70): E
 Ion 98.00 (97.70 to 98.70): B

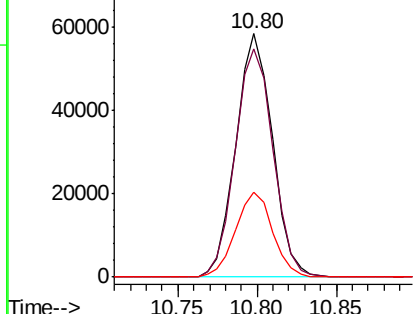
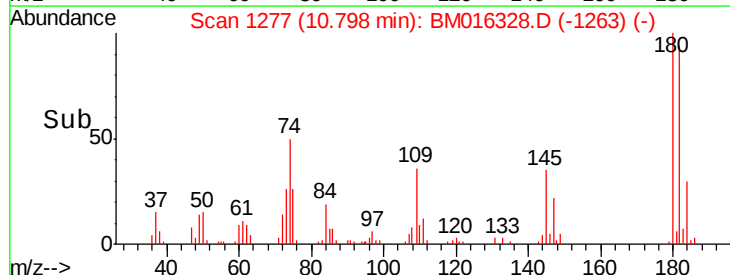


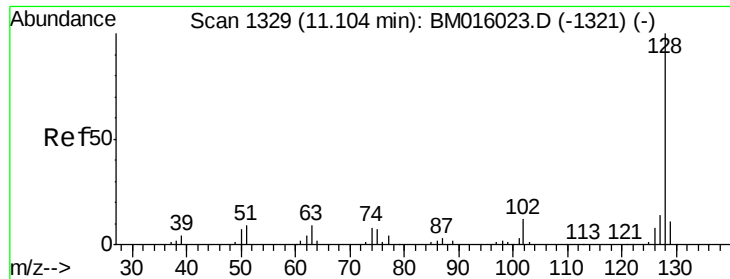
#30
 1,2,4-Trichlorobenzene
 Concen: 47.470 ng
 RT: 10.80 min Scan# 1277
 Delta R.T. -0.02 min
 Lab File: BM016328.D
 Acq: 13 Aug 2018 16:46

Tgt Ion:180 Resp: 93800
 Ion Ratio Lower Upper
 180 100
 182 93.9 77.6 116.4
 145 34.7 23.4 35.2



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

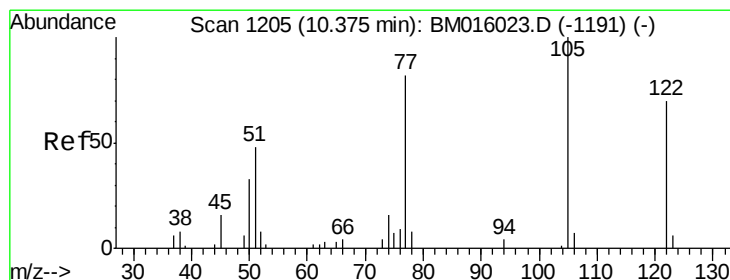
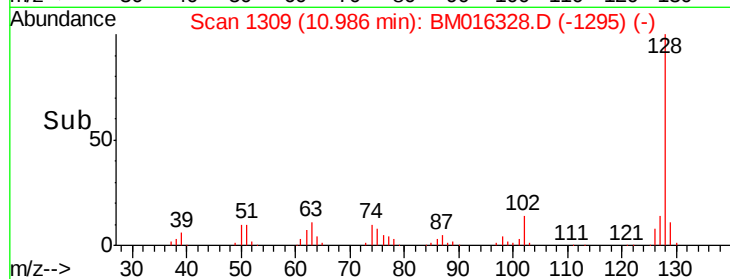
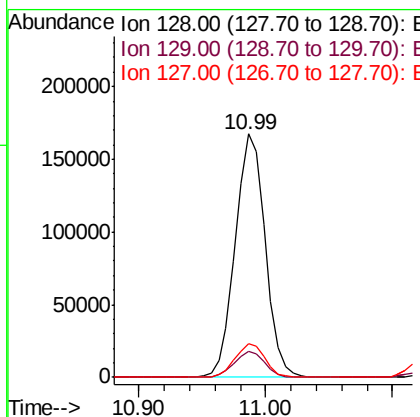
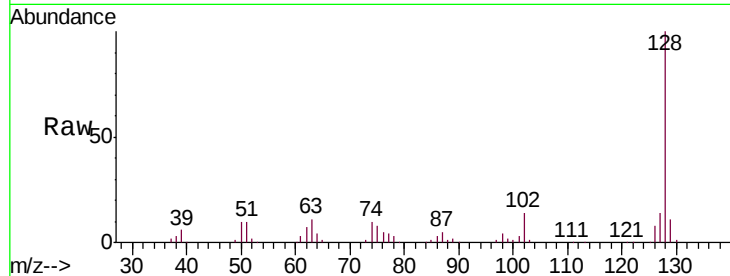




#31
Naphthalene
Concen: 49.800 ng
RT: 10.99 min Scan# 1309
Delta R.T. -0.02 min
Lab File: BM016328.D
Acq: 13 Aug 2018 16:46

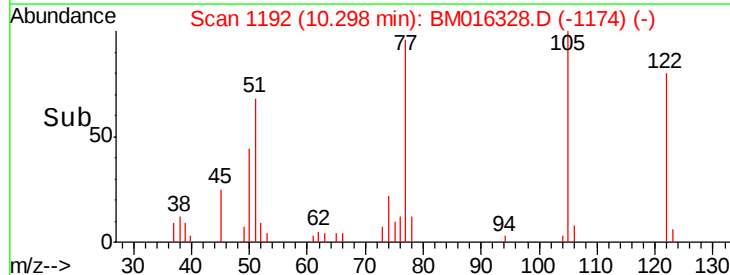
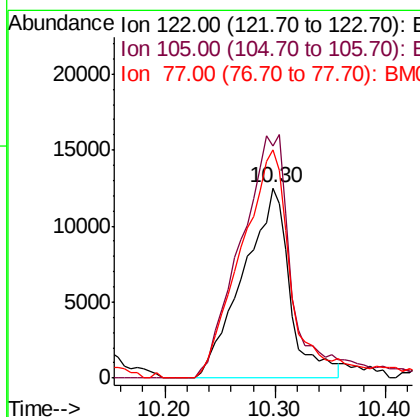
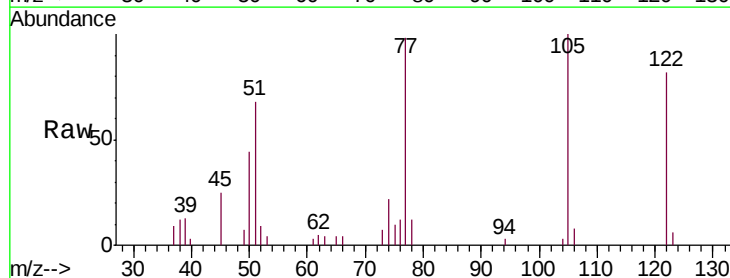
Instrument :
BNA_M
ClientSampleId :
EXCAVATION-SOILMSD

Tgt Ion:128 Resp: 274059
Ion Ratio Lower Upper
128 100
129 10.7 8.9 13.3
127 13.9 10.4 15.6



#32
Benzoic acid
Concen: 35.594 ng
RT: 10.30 min Scan# 1192
Delta R.T. 0.01 min
Lab File: BM016328.D
Acq: 13 Aug 2018 16:46

Tgt Ion:122 Resp: 37135
Ion Ratio Lower Upper
122 100
105 122.2 99.9 139.9
77 120.3 73.7 113.7#

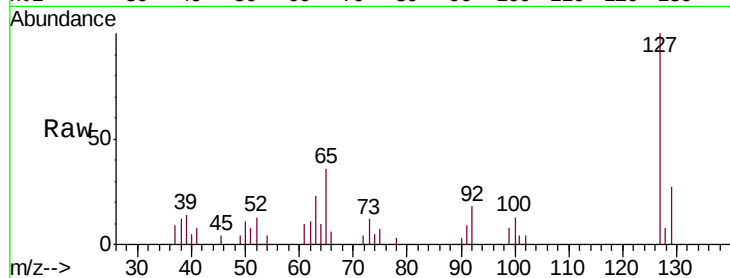




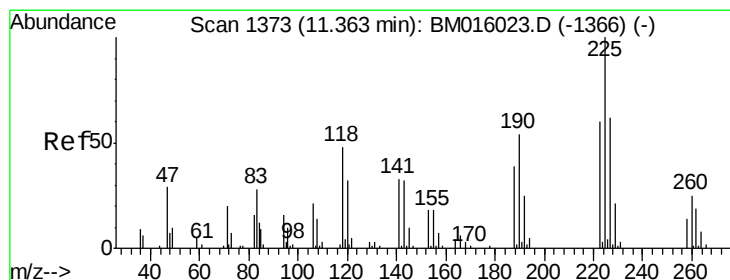
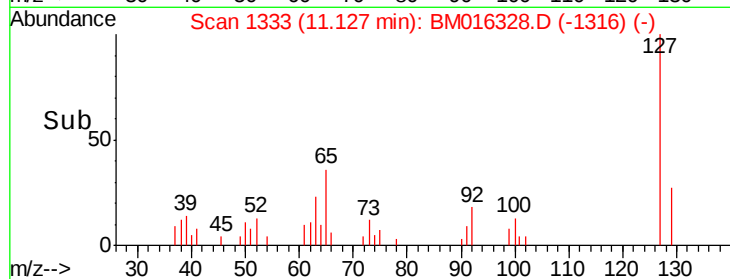
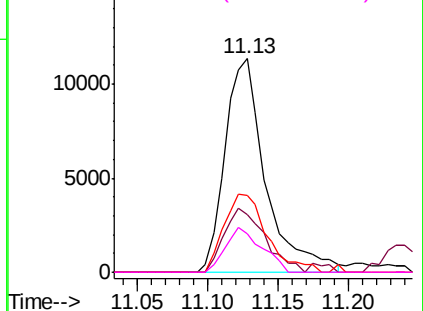
#33
4-Chloroaniline
Concen: 10.120 ng
RT: 11.13 min Scan# 1333
Delta R.T. 0.00 min
Lab File: BM016328.D
Acq: 13 Aug 2018 16:46

Instrument :
BNA_M
ClientSampleId :
EXCAVATION-SOILMSD

Tgt Ion:	127	Resp:	22726
Ion	Ratio	Lower	Upper
127	100		
129	27.2	25.3	37.9
65	36.2	17.6	26.4
92	18.0	13.1	19.7

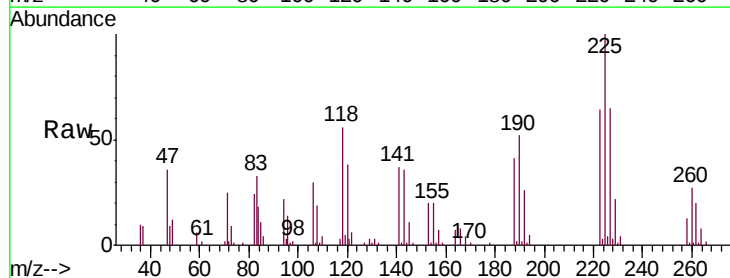


Abundance Ion 127.00 (126.70 to 127.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 65.00 (64.70 to 65.70): BM0
Ion 92.00 (91.70 to 92.70): BM0

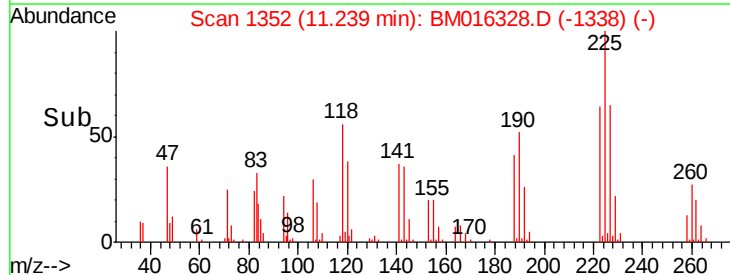
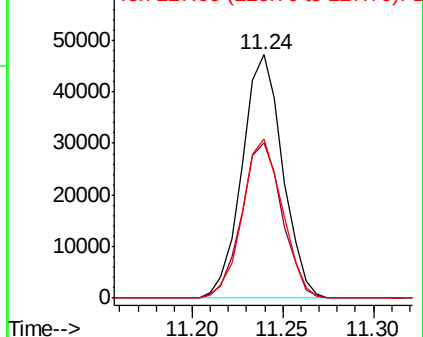


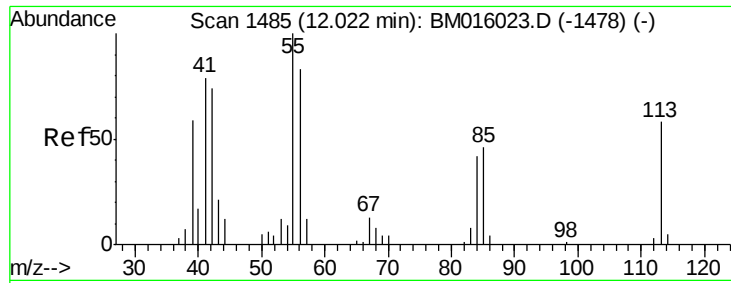
#34
Hexachlorobutadiene
Concen: 53.562 ng
RT: 11.24 min Scan# 1352
Delta R.T. -0.02 min
Lab File: BM016328.D
Acq: 13 Aug 2018 16:46

Tgt Ion:	225	Resp:	73414
Ion	Ratio	Lower	Upper
225	100		
223	63.6	47.9	71.9
227	65.2	50.1	75.1



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

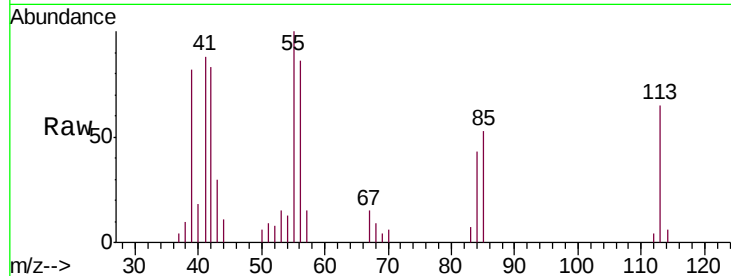




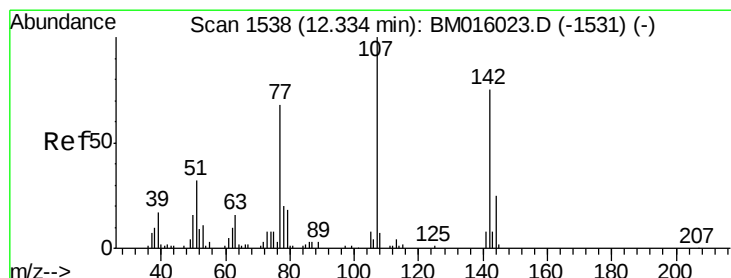
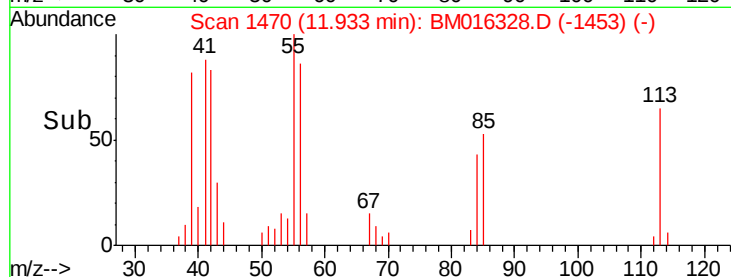
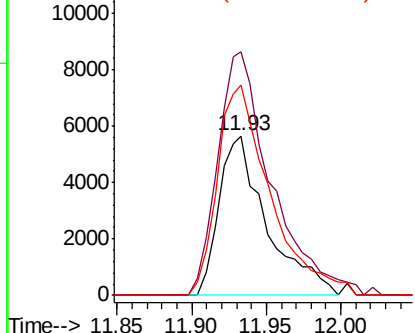
#35
 Caprolactam
 Concen: 28.089 ng
 RT: 11.93 min Scan# 1470
 Delta R.T. 0.00 min
 Lab File: BM016328.D
 Acq: 13 Aug 2018 16:46

Instrument :
 BNA_M
 ClientSampleId :
 EXCAVATION-SOILMSD

Tgt Ion:113 Resp: 12652
 Ion Ratio Lower Upper
 113 100
 55 152.8 145.9 185.9
 56 131.9 101.0 141.0

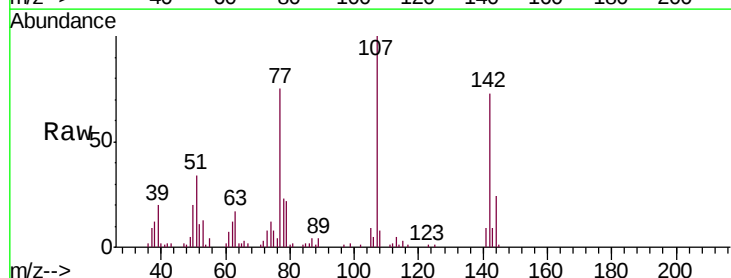


Abundance Ion 113.00 (112.70 to 113.70): E
 Ion 55.00 (54.70 to 55.70): BM016328.D (-1478) (-)
 Ion 56.00 (55.70 to 56.70): BM016328.D (-1478) (-)

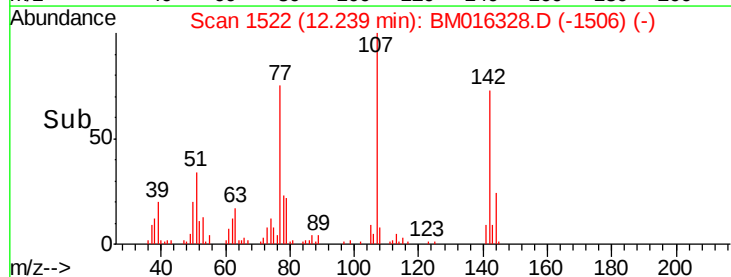
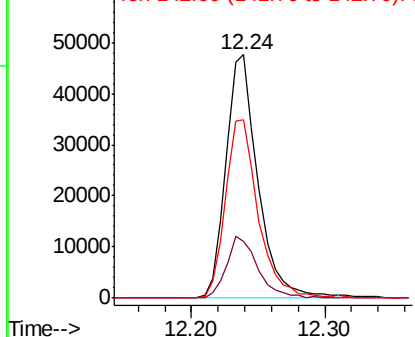


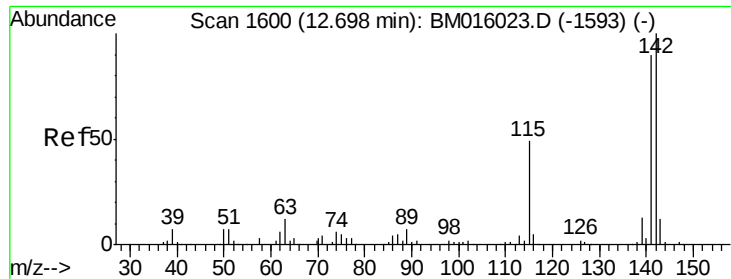
#36
 4-Chloro-3-methylphenol
 Concen: 44.693 ng
 RT: 12.24 min Scan# 1522
 Delta R.T. -0.01 min
 Lab File: BM016328.D
 Acq: 13 Aug 2018 16:46

Tgt Ion:107 Resp: 79943
 Ion Ratio Lower Upper
 107 100
 144 23.5 23.3 34.9
 142 73.2 72.6 109.0



Abundance Ion 107.00 (106.70 to 107.70): E
 Ion 144.00 (143.70 to 144.70): E
 Ion 142.00 (141.70 to 142.70): E

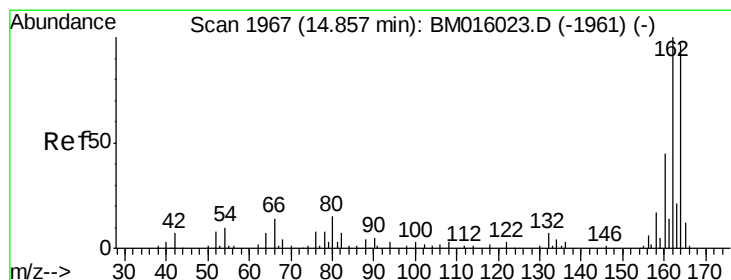
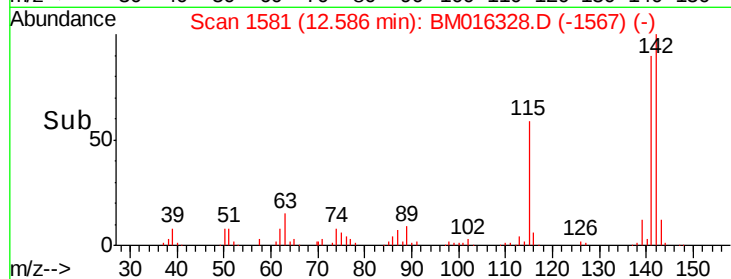
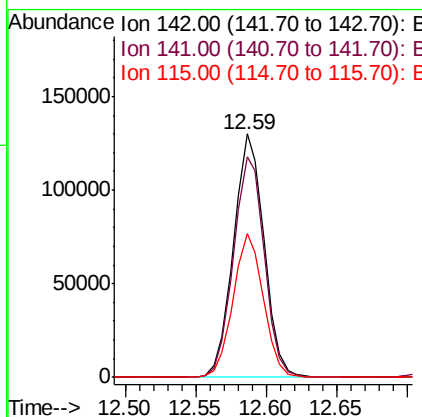
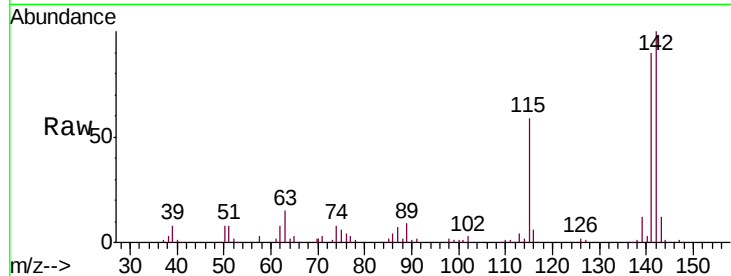




#37
 2-Methylnaphthalene
 Concen: 53.163 ng
 RT: 12.59 min Scan# 1581
 Delta R.T. -0.02 min
 Lab File: BM016328.D
 Acq: 13 Aug 2018 16:46

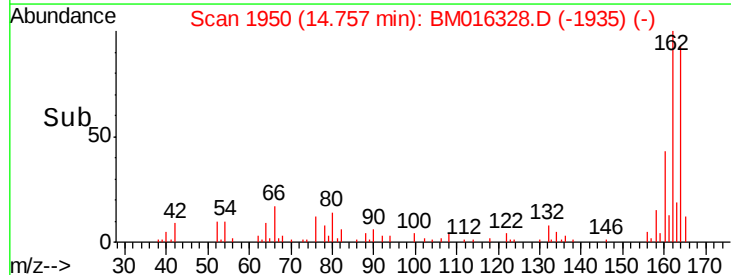
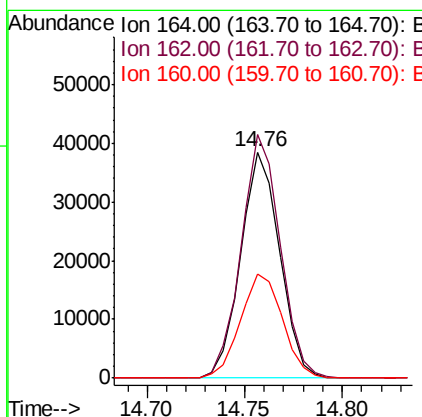
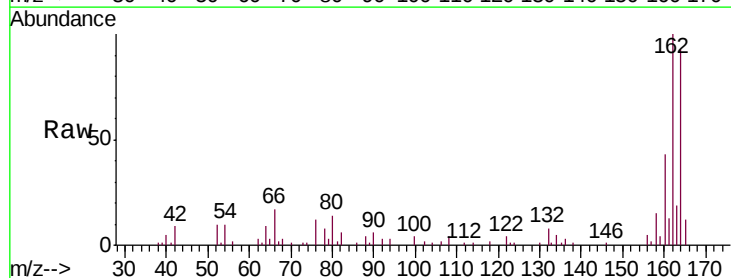
Instrument :
 BNA_M
 ClientSampleId :
 EXCAVATION-SOILMSD

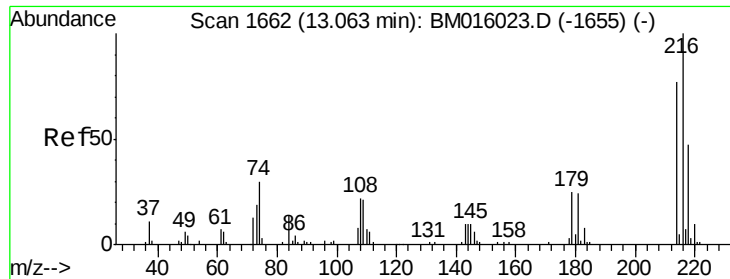
Tgt Ion:142 Resp: 195984
 Ion Ratio Lower Upper
 142 100
 141 90.4 71.9 107.9
 115 58.9 25.4 38.0#



#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 14.76 min Scan# 1950
 Delta R.T. -0.01 min
 Lab File: BM016328.D
 Acq: 13 Aug 2018 16:46

Tgt Ion:164 Resp: 53312
 Ion Ratio Lower Upper
 164 100
 162 107.6 82.4 123.6
 160 46.2 35.8 53.6

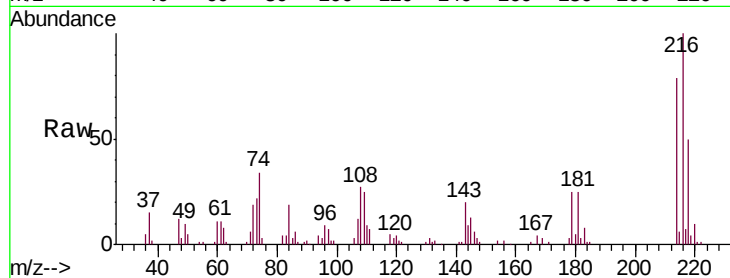




#39
 1,2,4,5-Tetrachlorobenzene
 Concen: 56.231 ng
 RT: 12.95 min Scan# 1643
 Delta R.T. -0.02 min
 Lab File: BM016328.D
 Acq: 13 Aug 2018 16:46

Instrument :
 BNA_M
 ClientSampleId :
 EXCAVATION-SOILMSD

Tgt Ion:	216	Resp:	102059
Ion	Ratio	Lower	Upper
216	100		
214	78.0	0.0	0.0#
179	25.2	0.0	0.0#
108	26.3	0.0	0.0#



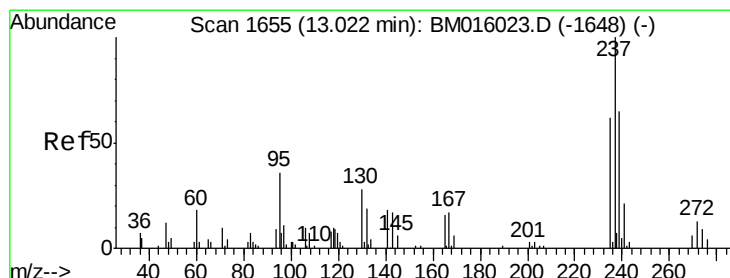
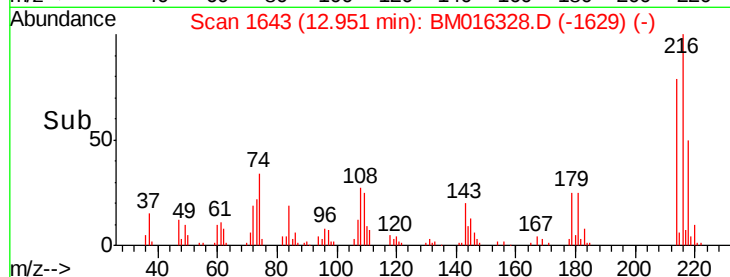
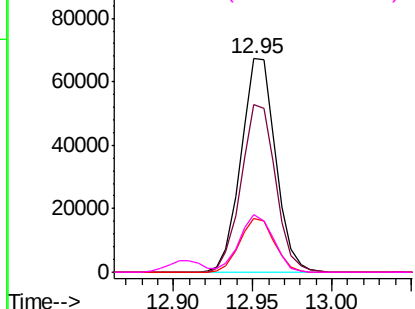
Abundance

Ion 216.00 (215.70 to 216.70): E

Ion 214.00 (213.70 to 214.70): E

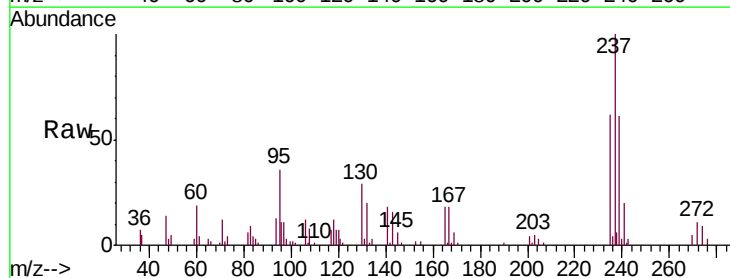
Ion 179.00 (178.70 to 179.70): E

Ion 108.00 (107.70 to 108.70): E



#40
 Hexachlorocyclopentadiene
 Concen: 70.506 ng
 RT: 12.91 min Scan# 1636
 Delta R.T. -0.02 min
 Lab File: BM016328.D
 Acq: 13 Aug 2018 16:46

Tgt Ion:	237	Resp:	61917
Ion	Ratio	Lower	Upper
237	100		
235	62.3	42.0	82.0
272	11.0	0.0	33.4

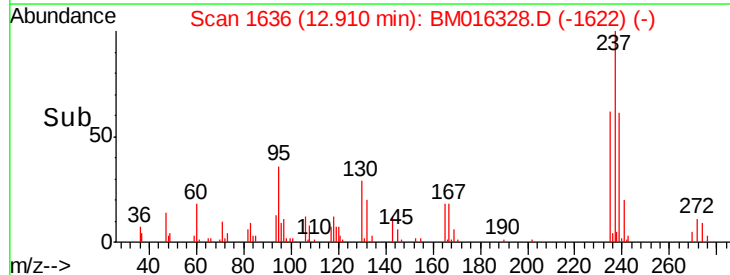
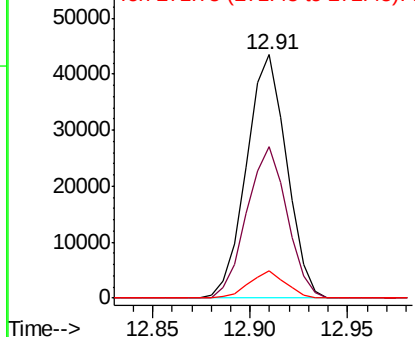


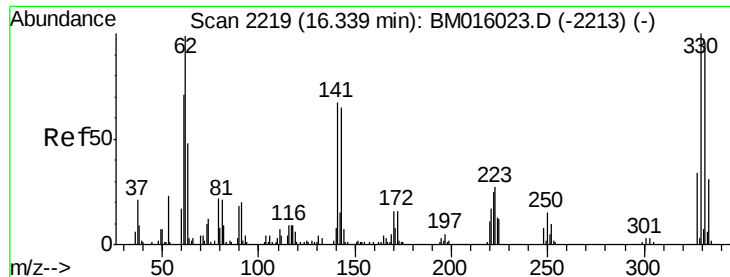
Abundance

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





#41

2,4,6-Tribromophenol

Concen: 70.506 ng

RT: 16.25 min Scan# 2204

Delta R.T. -0.01 min

Lab File: BM016328.D

Acq: 13 Aug 2018 16:46

Instrument :

BNA_M

ClientSampleId :

EXCAVATION-SOILMSD

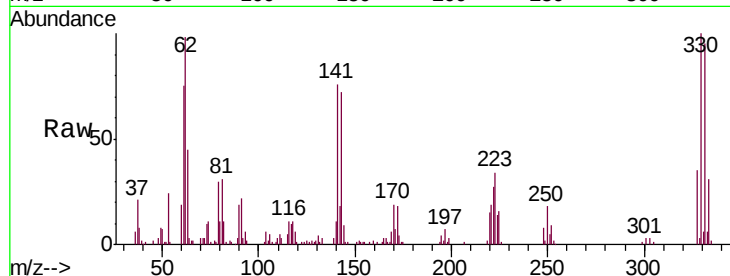
Tgt Ion:330 Resp: 94591

Ion Ratio Lower Upper

330 100

332 96.0 0.0 0.0#

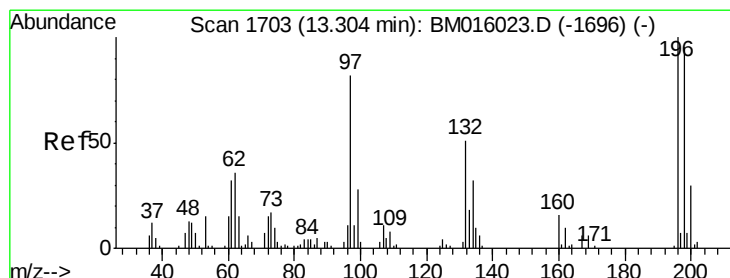
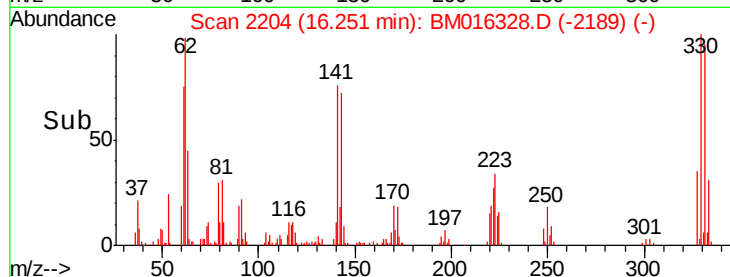
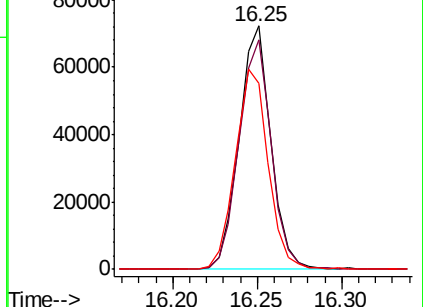
141 85.2 0.0 0.0#



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



#42

2,4,6-Trichlorophenol

Concen: 51.747 ng

RT: 13.20 min Scan# 1686

Delta R.T. -0.01 min

Lab File: BM016328.D

Acq: 13 Aug 2018 16:46

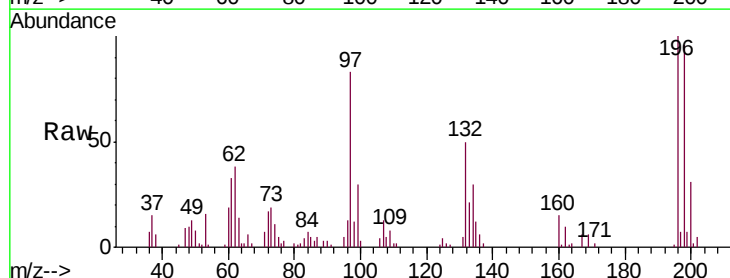
Tgt Ion:196 Resp: 58762

Ion Ratio Lower Upper

196 100

198 96.0 76.3 114.5

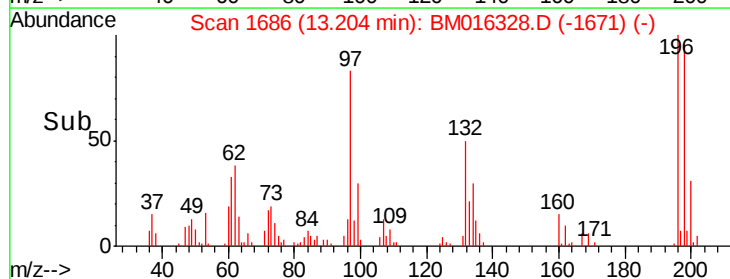
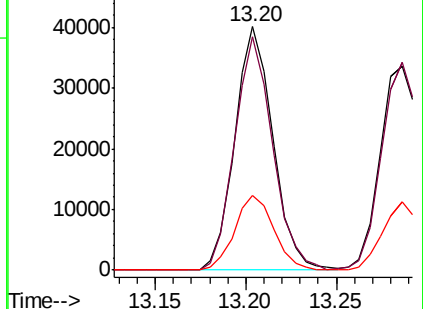
200 30.6 25.6 38.4

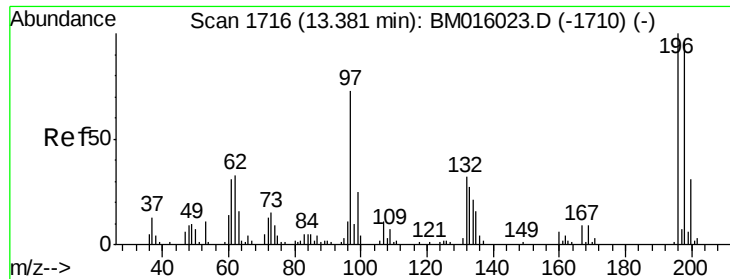


Abundance Ion 196.00 (195.70 to 196.70): E

Ion 198.00 (197.70 to 198.70): E

Ion 200.00 (199.70 to 200.70): E

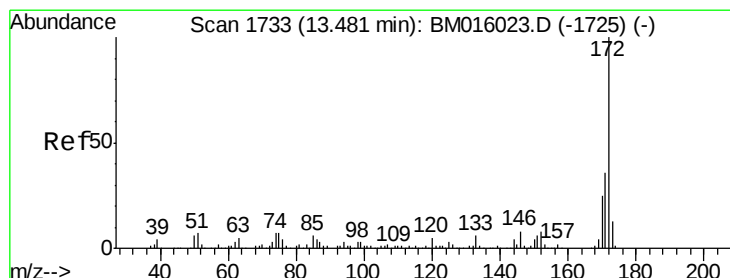
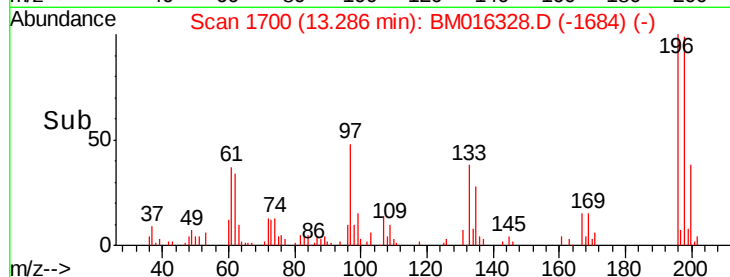
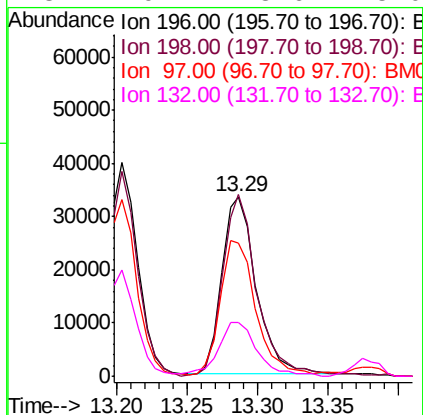
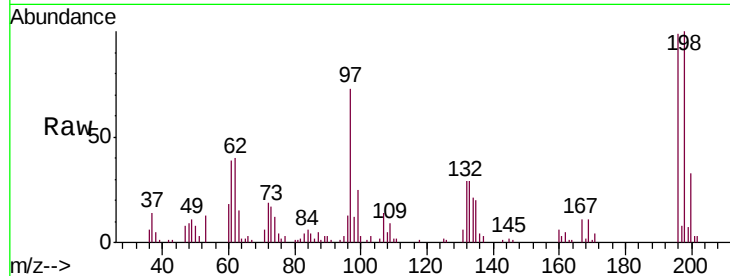




#43
 2,4,5-Trichlorophenol
 Concen: 48.481 ng
 RT: 13.29 min Scan# 1700
 Delta R.T. -0.01 min
 Lab File: BM016328.D
 Acq: 13 Aug 2018 16:46

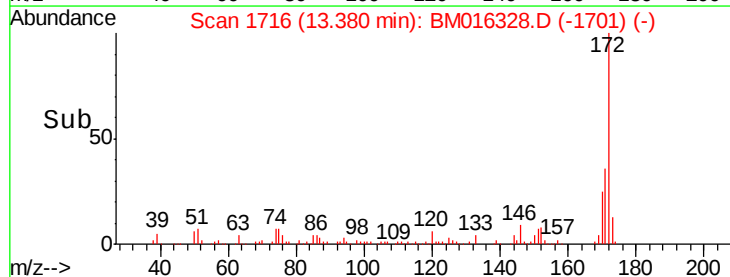
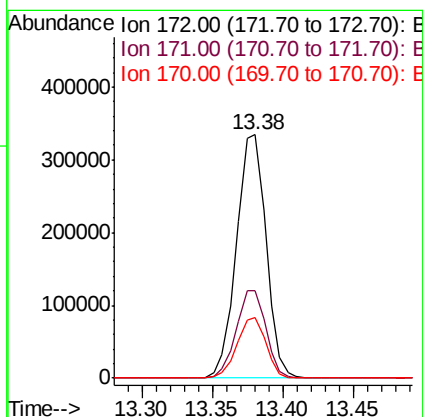
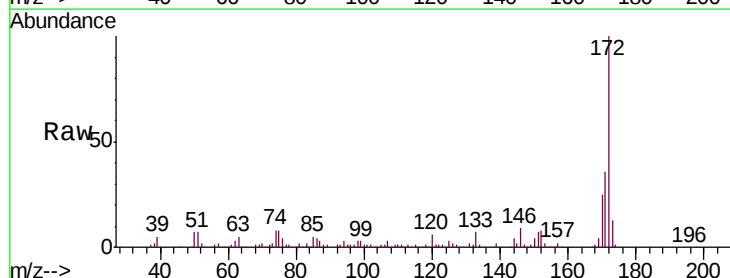
Instrument :
 BNA_M
 ClientSampleId :
 EXCAVATION-SOILMSD

Tgt Ion:196 Resp: 56787
 Ion Ratio Lower Upper
 196 100
 198 101.4 79.4 119.0
 97 74.3 26.8 40.2#
 132 29.7 18.6 28.0#



#44
 2-Fluorobiphenyl
 Concen: 48.481 ng
 RT: 13.38 min Scan# 1716
 Delta R.T. -0.01 min
 Lab File: BM016328.D
 Acq: 13 Aug 2018 16:46

Tgt Ion:172 Resp: 490143
 Ion Ratio Lower Upper
 172 100
 171 36.0 28.5 42.7
 170 24.9 18.8 28.2

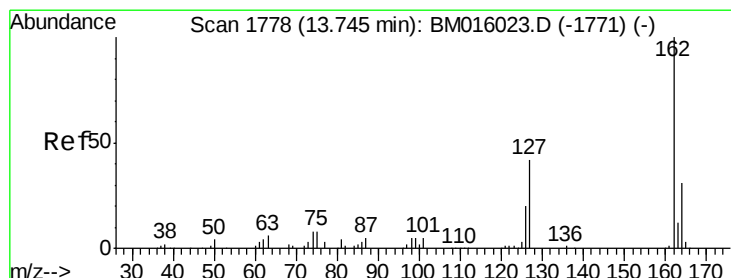
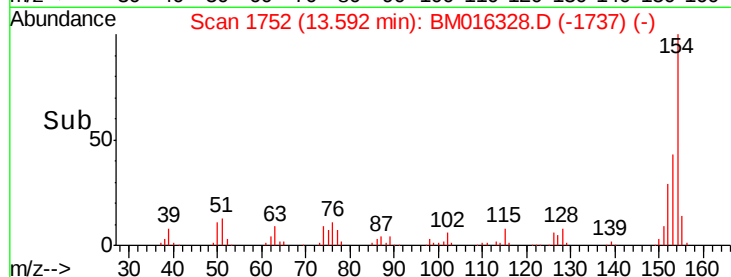
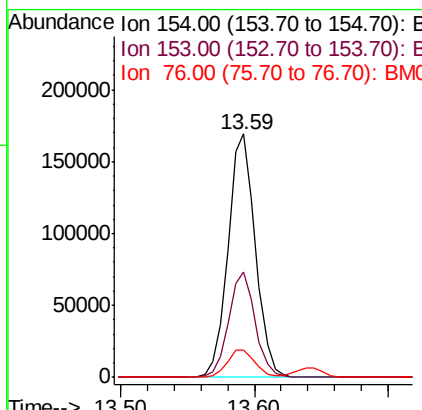
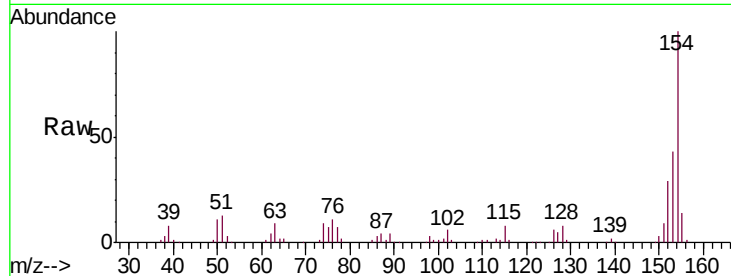




#45
 1,1'-Biphenyl
 Concen: 50.214 ng
 RT: 13.59 min Scan# 1752
 Delta R.T. -0.01 min
 Lab File: BM016328.D
 Acq: 13 Aug 2018 16:46

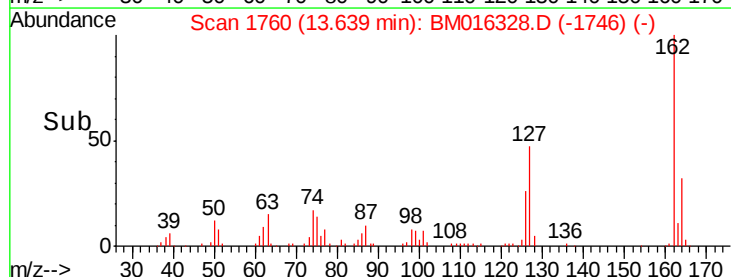
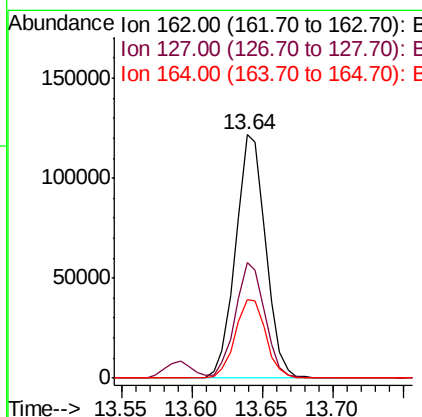
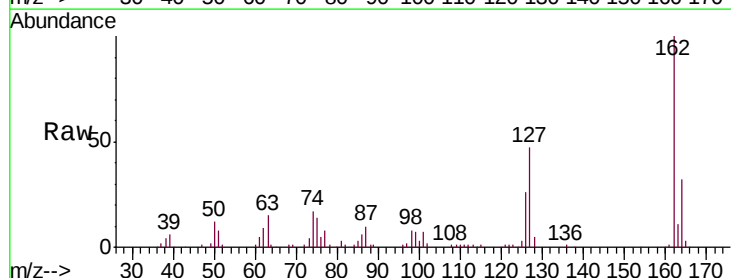
Instrument :
 BNA_M
 ClientSampleId :
 EXCAVATION-SOILMSD

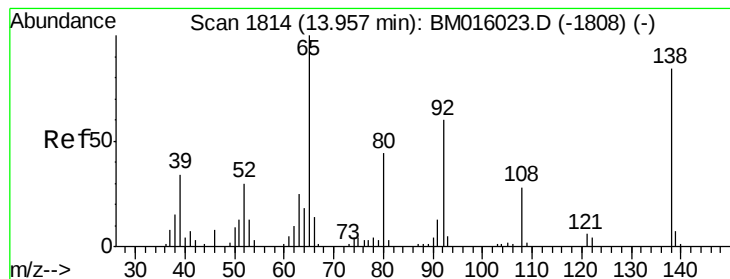
Tgt Ion:	154	Resp:	241591
Ion	Ratio	Lower	Upper
154	100		
153	43.3	20.7	60.7
76	11.2	0.0	30.9



#46
 2-Chloronaphthalene
 Concen: 48.207 ng
 RT: 13.64 min Scan# 1760
 Delta R.T. -0.02 min
 Lab File: BM016328.D
 Acq: 13 Aug 2018 16:46

Tgt Ion:	162	Resp:	180397
Ion	Ratio	Lower	Upper
162	100		
127	47.4	26.9	40.3#
164	32.4	26.8	40.2





#47

2-Nitroaniline

Concen: 49.247 ng

RT: 13.87 min Scan# 1799

Delta R.T. -0.01 min

Lab File: BM016328.D

Acq: 13 Aug 2018 16:46

Instrument :

BNA_M

ClientSampleId :

EXCAVATION-SOILMSD

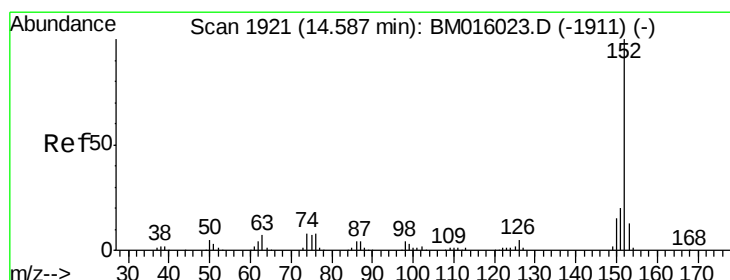
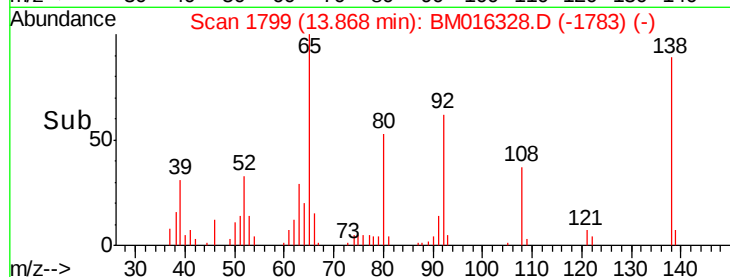
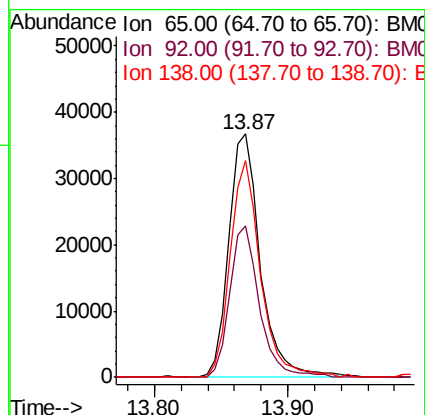
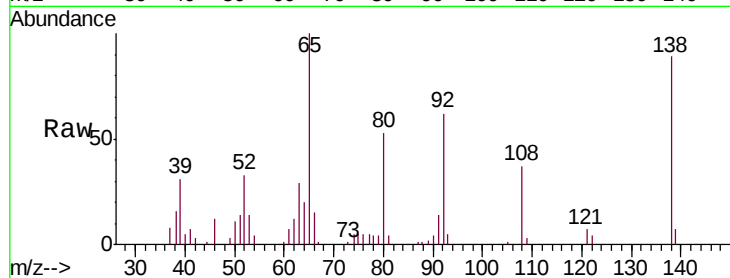
Tgt Ion: 65 Resp: 60927

Ion Ratio Lower Upper

65 100

92 62.1 59.1 88.7

138 88.9 93.9 140.9#



#48

Acenaphthylene

Concen: 52.807 ng

RT: 14.49 min Scan# 1904

Delta R.T. -0.01 min

Lab File: BM016328.D

Acq: 13 Aug 2018 16:46

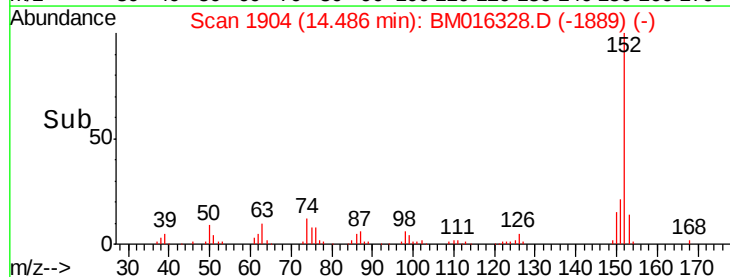
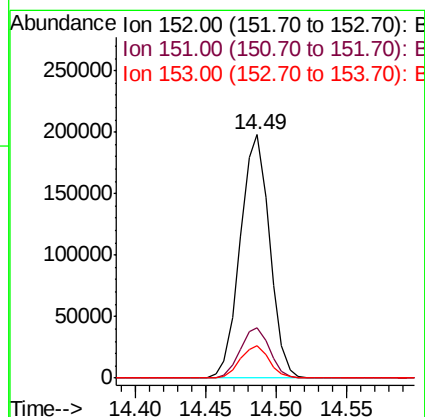
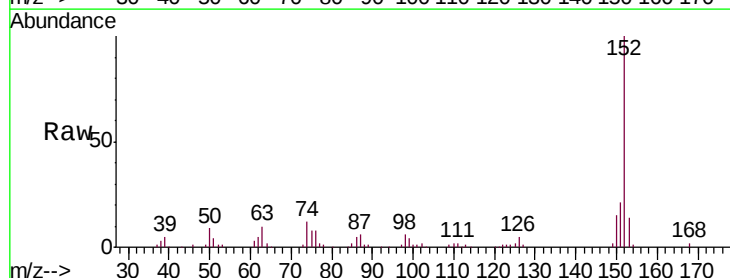
Tgt Ion: 152 Resp: 289286

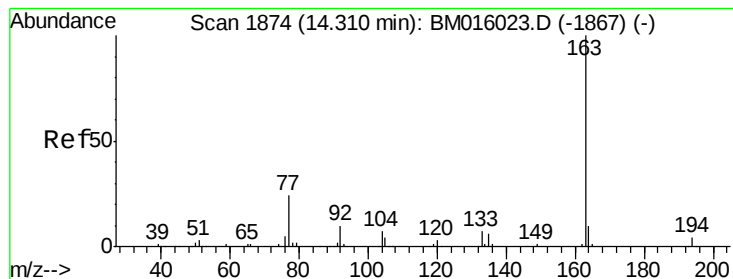
Ion Ratio Lower Upper

152 100

151 20.7 15.9 23.9

153 13.5 10.6 16.0





#49

Dimethylphthalate

Concen: 50.182 ng

RT: 14.22 min Scan# 1858

Delta R.T. -0.01 min

Lab File: BM016328.D

Acq: 13 Aug 2018 16:46

Instrument :

BNA_M

ClientSampleId :

EXCAVATION-SOILMSD

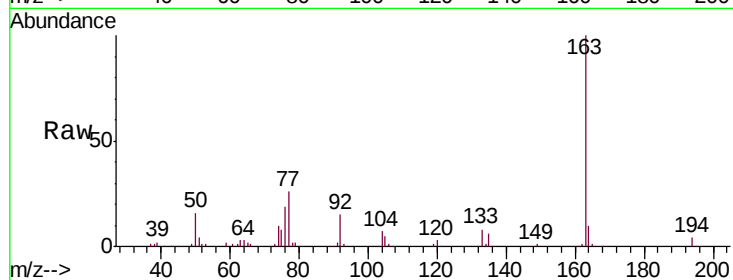
Tgt Ion:163 Resp: 234131

Ion Ratio Lower Upper

163 100

194 3.5 2.7 4.1

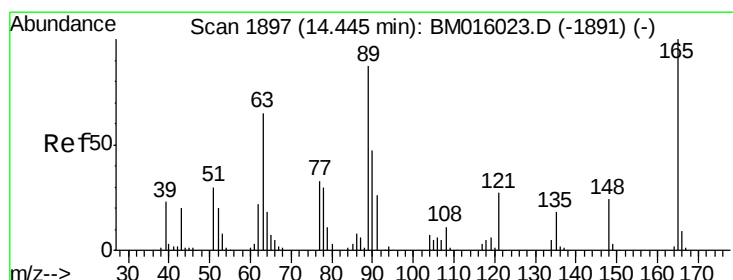
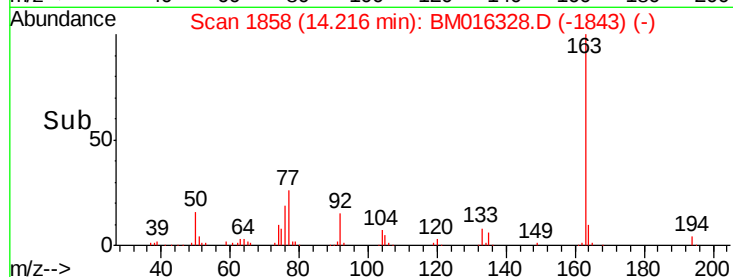
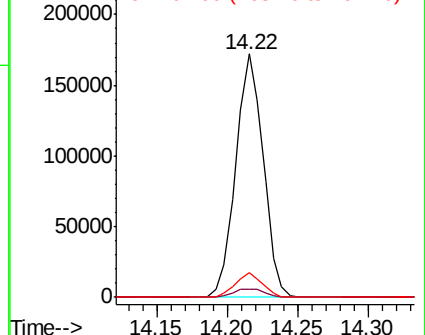
164 10.0 8.2 12.2



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



#50

2,6-Dinitrotoluene

Concen: 47.862 ng

RT: 14.36 min Scan# 1882

Delta R.T. -0.01 min

Lab File: BM016328.D

Acq: 13 Aug 2018 16:46

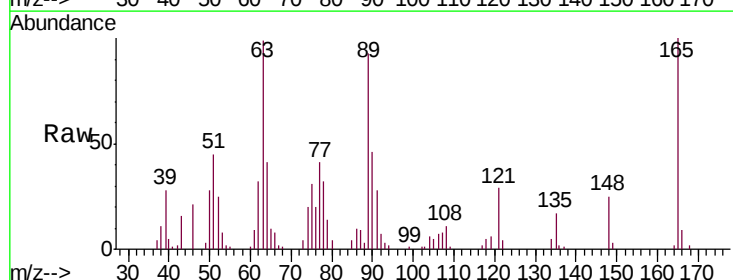
Tgt Ion:165 Resp: 44930

Ion Ratio Lower Upper

165 100

63 98.8 44.1 66.1#

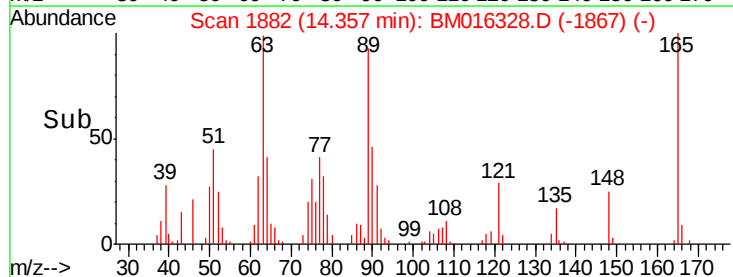
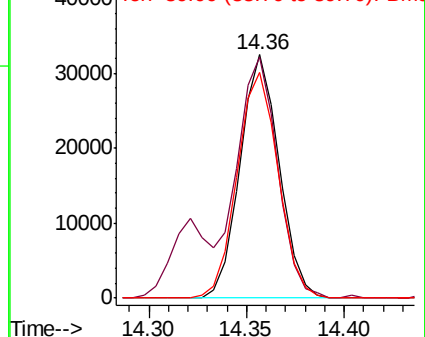
89 92.9 44.3 66.5#

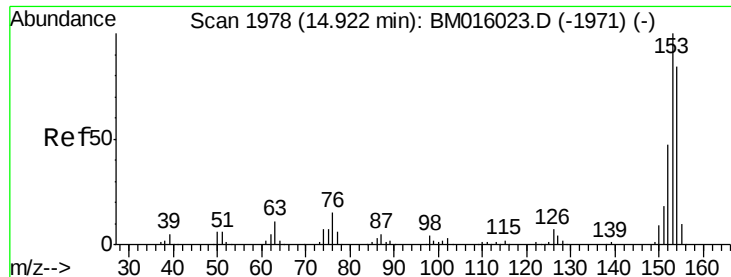


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BM0

Ion 89.00 (88.70 to 89.70): BM0





#51

Acenaphthene

Concen: 49.588 ng

RT: 14.82 min Scan# 1961

Delta R.T. -0.01 min

Lab File: BM016328.D

Acq: 13 Aug 2018 16:46

Instrument :

BNA_M

ClientSampleId :

EXCAVATION-SOILMSD

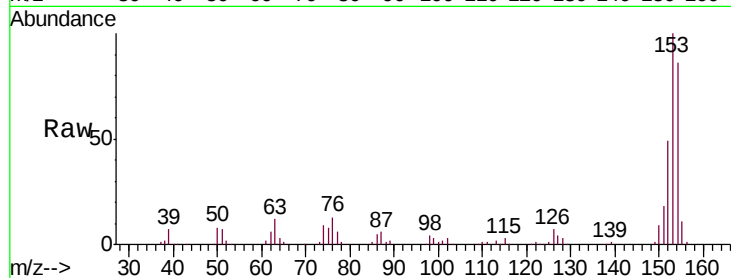
Tgt Ion:154 Resp: 167071

Ion Ratio Lower Upper

154 100

153 116.0 90.0 135.0

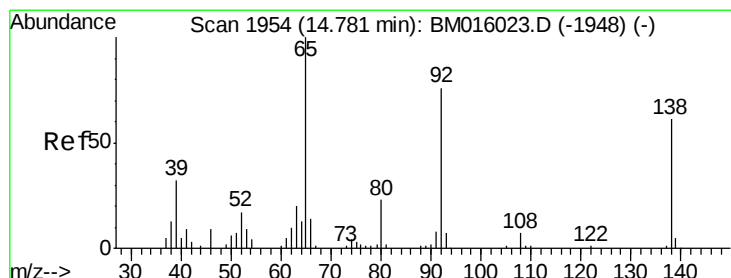
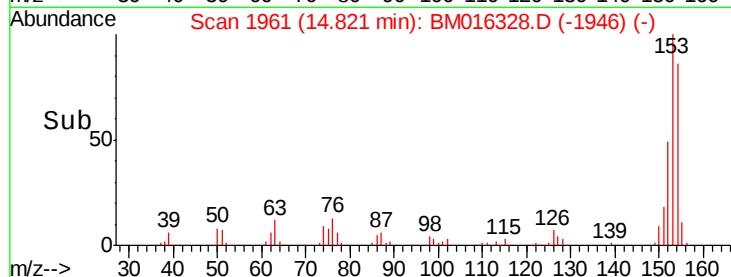
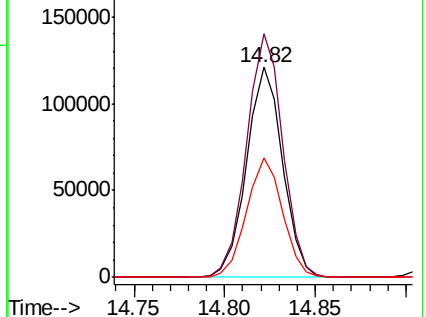
152 57.1 42.6 63.8



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#52

3-Nitroaniline

Concen: 24.985 ng

RT: 14.69 min Scan# 1939

Delta R.T. -0.01 min

Lab File: BM016328.D

Acq: 13 Aug 2018 16:46

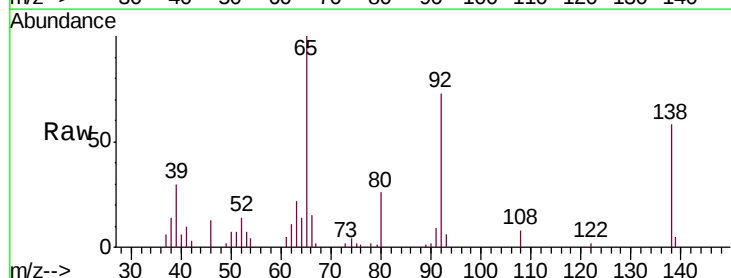
Tgt Ion:138 Resp: 25333

Ion Ratio Lower Upper

138 100

108 13.4 7.3 10.9#

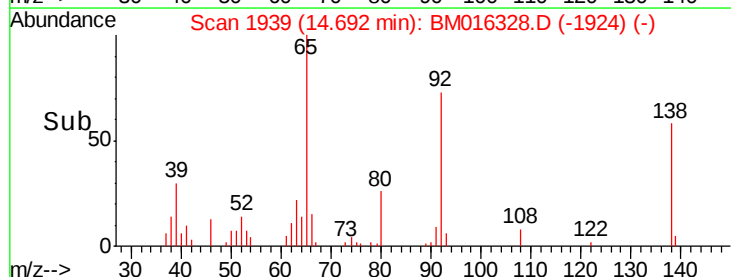
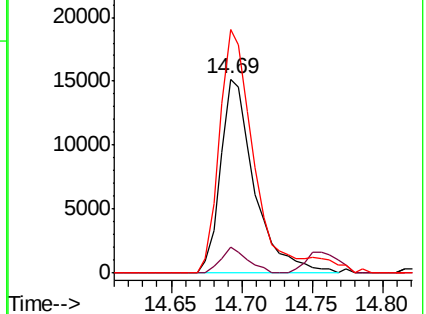
92 125.4 76.6 114.8#

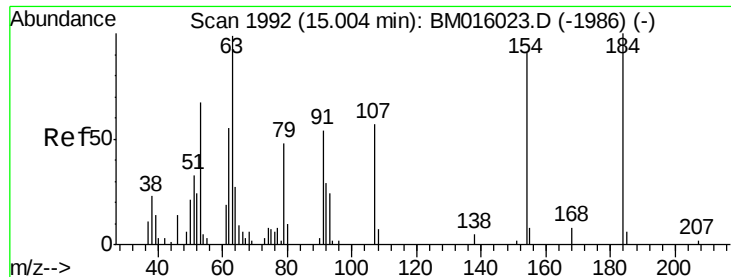


Abundance Ion 138.00 (137.70 to 138.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 92.00 (91.70 to 92.70): E

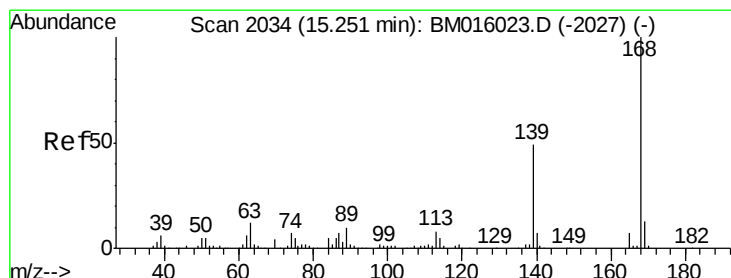
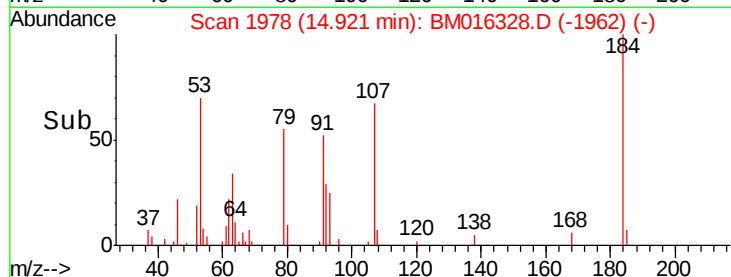
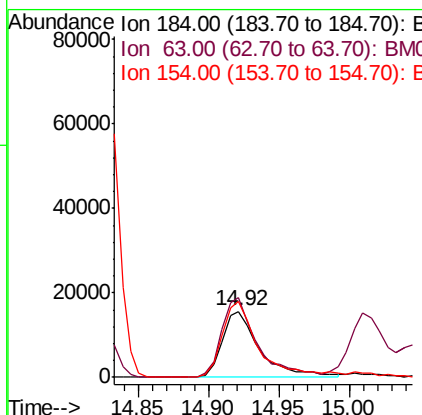
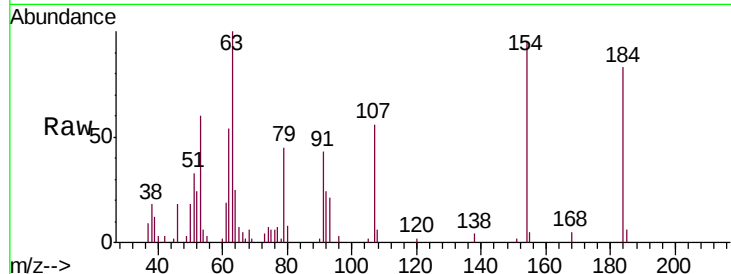




#53
2,4-Dinitrophenol
Concen: 72.452 ng
RT: 14.92 min Scan# 1978
Delta R.T. -0.01 min
Lab File: BM016328.D
Acq: 13 Aug 2018 16:46

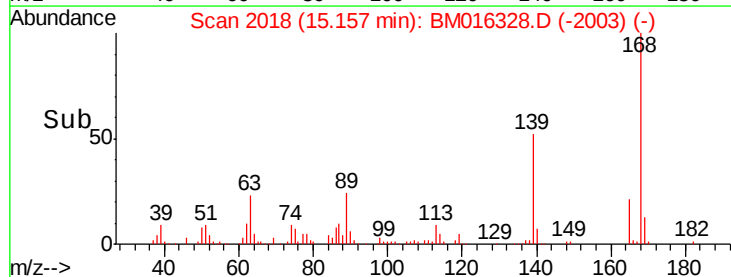
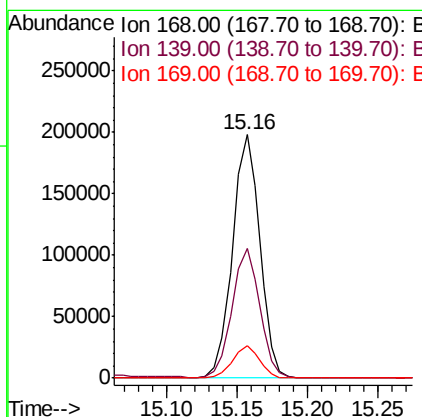
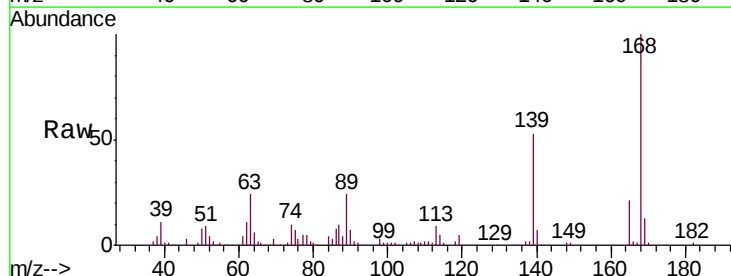
Instrument :
BNA_M
ClientSampleId :
EXCAVATION-SOILMSD

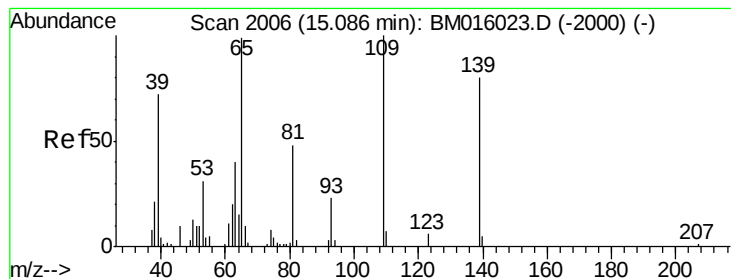
Tgt Ion:184 Resp: 28953
Ion Ratio Lower Upper
184 100
63 120.4 69.2 103.8#
154 115.0 53.3 79.9#



#54
Dibenzofuran
Concen: 48.126 ng
RT: 15.16 min Scan# 2018
Delta R.T. -0.01 min
Lab File: BM016328.D
Acq: 13 Aug 2018 16:46

Tgt Ion:168 Resp: 267198
Ion Ratio Lower Upper
168 100
139 53.5 27.3 40.9#
169 13.5 10.6 16.0





#55

4-Nitrophenol

Concen: 62.662 ng

RT: 15.01 min Scan# 1993

Delta R.T. -0.01 min

Lab File: BM016328.D

Acq: 13 Aug 2018 16:46

Instrument :

BNA_M

ClientSampleId :

EXCAVATION-SOILMSD

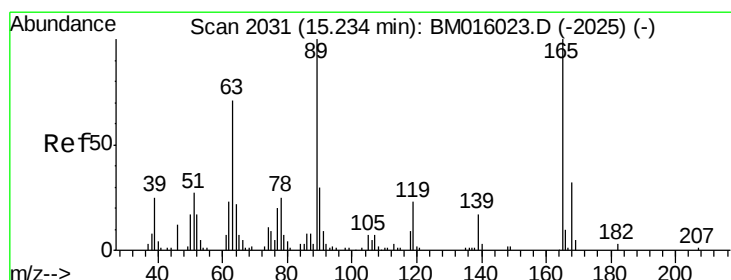
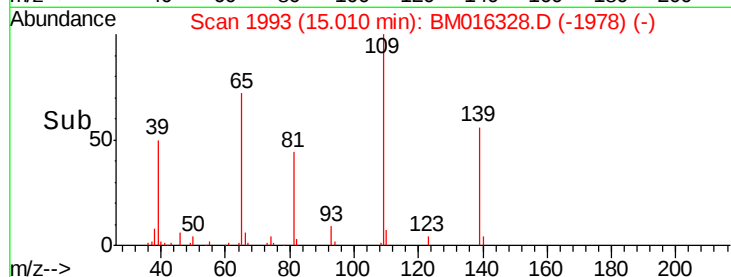
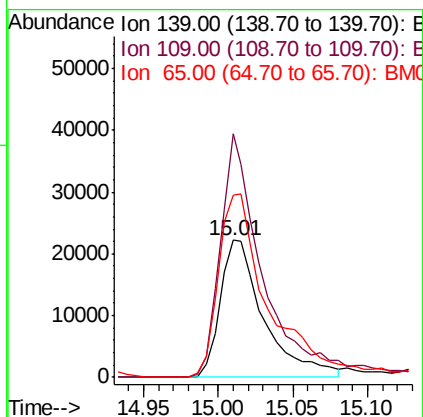
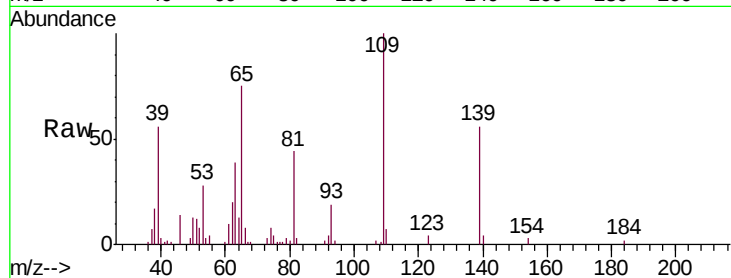
Tgt Ion:139 Resp: 45547

Ion Ratio Lower Upper

139 100

109 177.4 130.0 170.0#

65 133.1 130.0 170.0



#56

2,4-Dinitrotoluene

Concen: 48.247 ng

RT: 15.15 min Scan# 2017

Delta R.T. -0.01 min

Lab File: BM016328.D

Acq: 13 Aug 2018 16:46

Tgt Ion:165 Resp: 64761

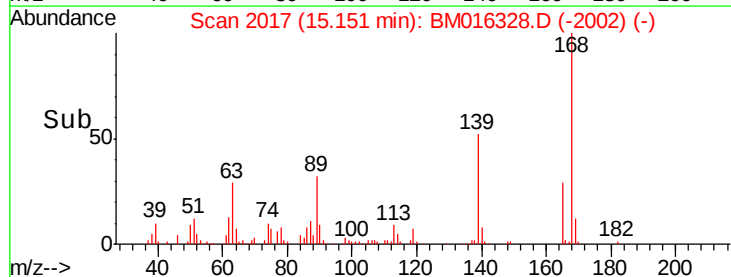
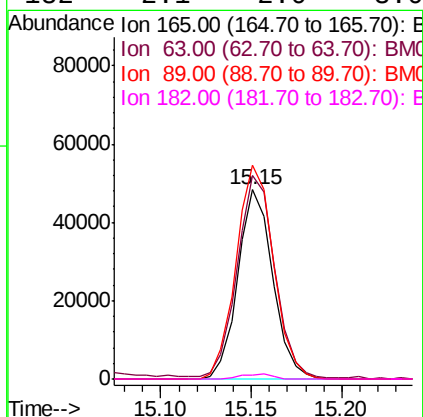
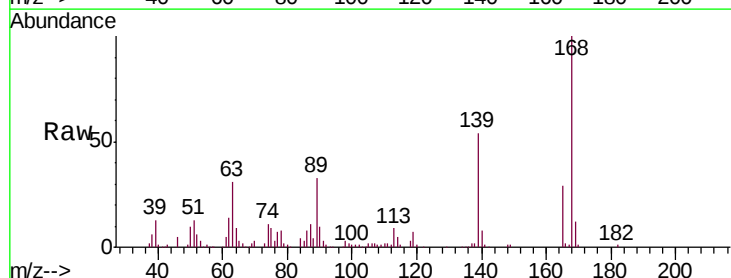
Ion Ratio Lower Upper

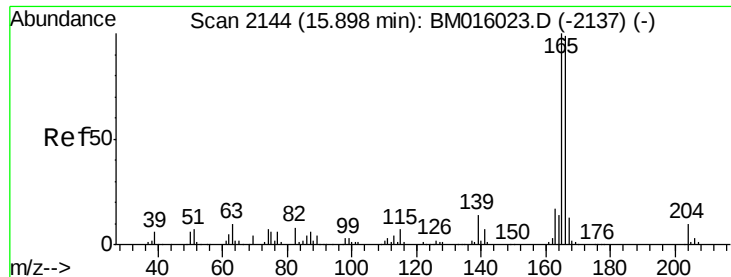
165 100

63 107.7 52.4 78.6#

89 112.8 72.4 108.6#

182 2.1 2.0 3.0

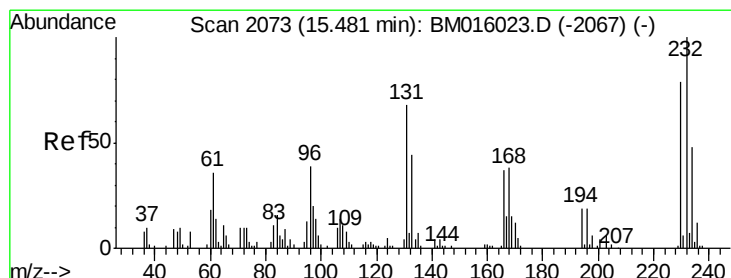
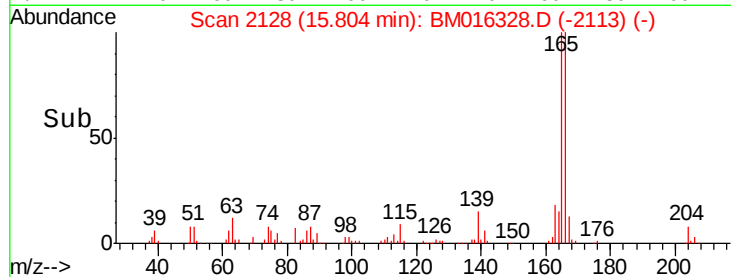
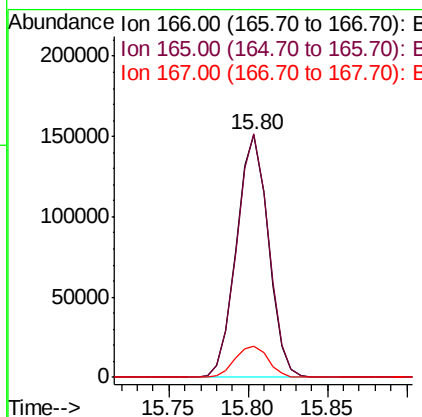
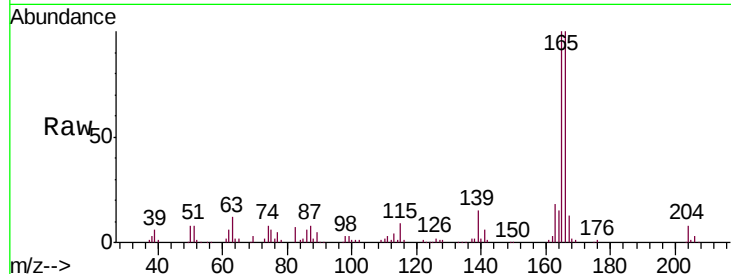




#57
 Fluorene
 Concen: 51.136 ng
 RT: 15.80 min Scan# 2128
 Delta R.T. -0.01 min
 Lab File: BM016328.D
 Acq: 13 Aug 2018 16:46

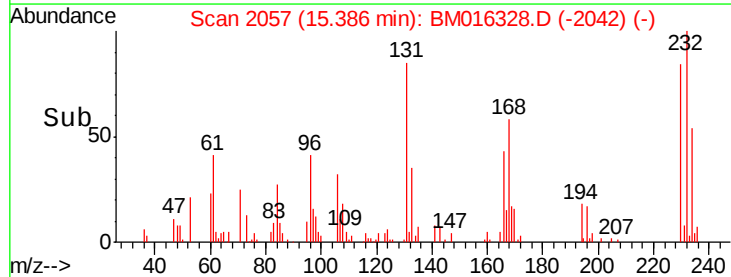
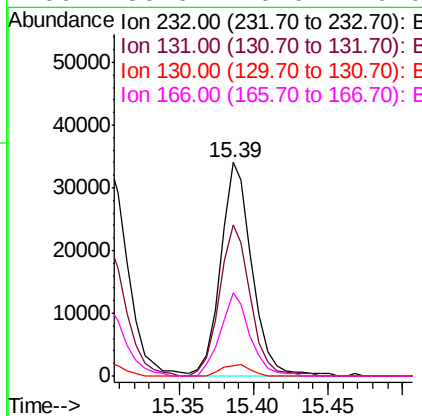
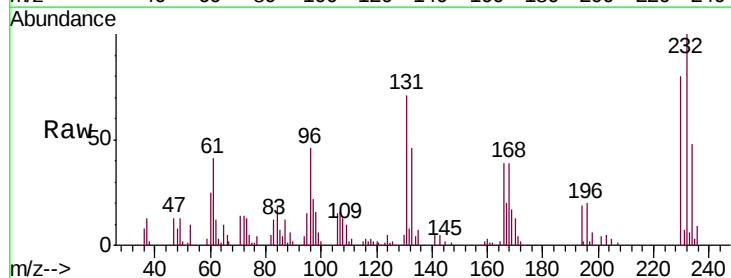
Instrument :
 BNA_M
 ClientSampleId :
 EXCAVATION-SOILMSD

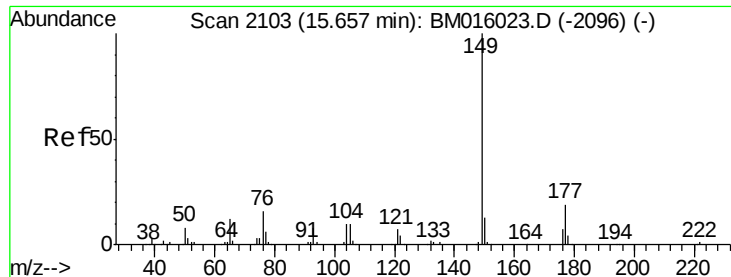
Tgt Ion	Ratio	Lower	Upper
166	100		
165	100.3	79.0	118.4
167	12.9	10.3	15.5



#58
 2,3,4,6-Tetrachlorophenol
 Concen: 49.945 ng
 RT: 15.39 min Scan# 2057
 Delta R.T. -0.01 min
 Lab File: BM016328.D
 Acq: 13 Aug 2018 16:46

Tgt Ion	Ratio	Lower	Upper
232	100		
131	69.8	0.0	0.0#
130	4.8	0.0	0.0#
166	36.6	0.0	0.0#

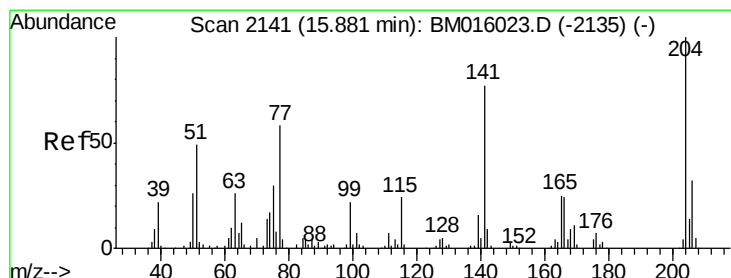
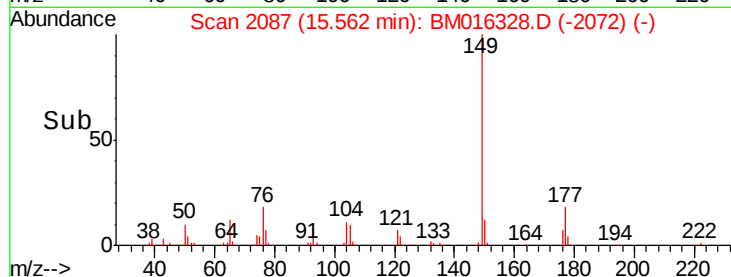
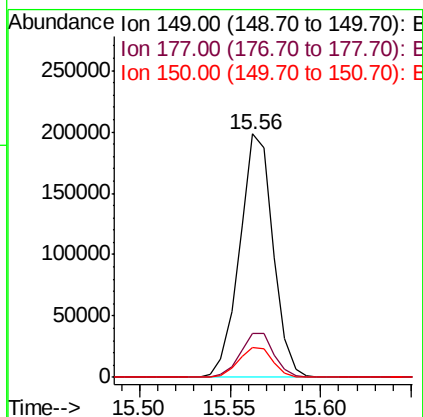
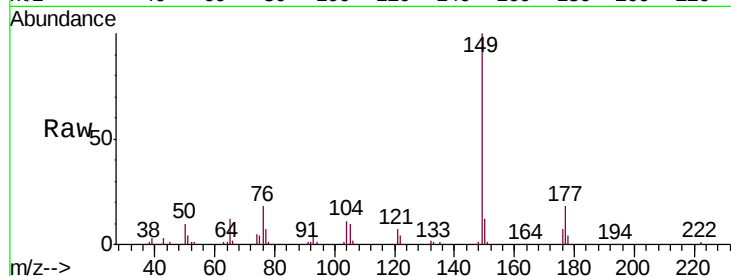




#59
Diethylphthalate
Concen: 50.258 ng
RT: 15.56 min Scan# 2087
Delta R.T. -0.01 min
Lab File: BM016328.D
Acq: 13 Aug 2018 16:46

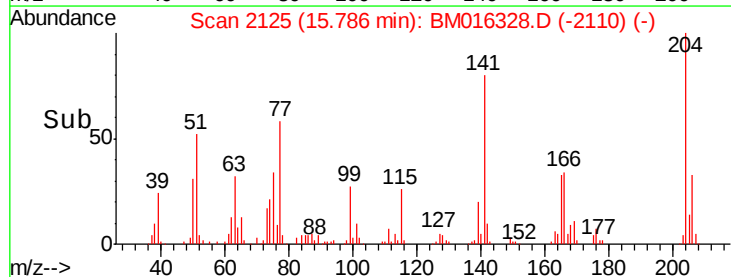
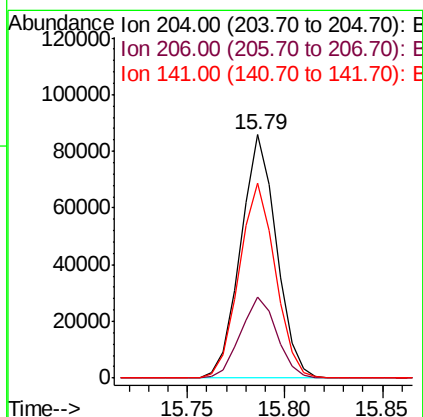
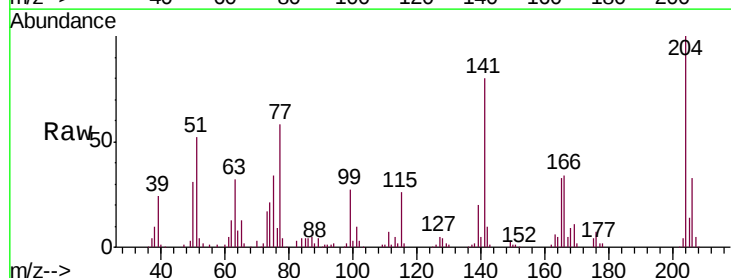
Instrument :
BNA_M
ClientSampleId :
EXCAVATION-SOILMSD

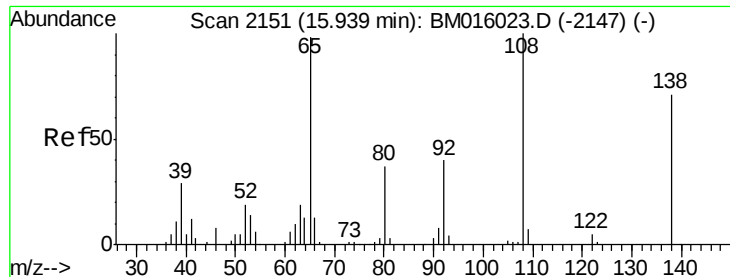
Tgt Ion:149 Resp: 252740
Ion Ratio Lower Upper
149 100
177 18.3 18.3 27.5#
150 12.3 9.8 14.8



#60
4-Chlorophenyl-phenylether
Concen: 47.611 ng
RT: 15.79 min Scan# 2125
Delta R.T. -0.01 min
Lab File: BM016328.D
Acq: 13 Aug 2018 16:46

Tgt Ion:204 Resp: 109351
Ion Ratio Lower Upper
204 100
206 33.4 26.6 39.8
141 80.2 45.2 67.8#

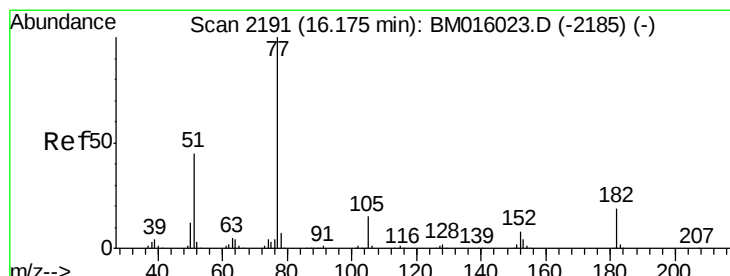
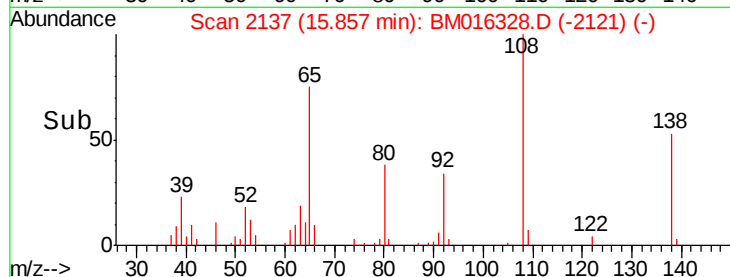
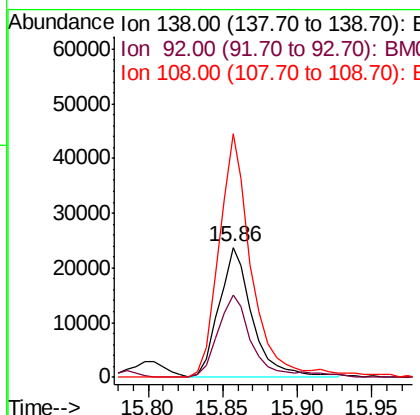
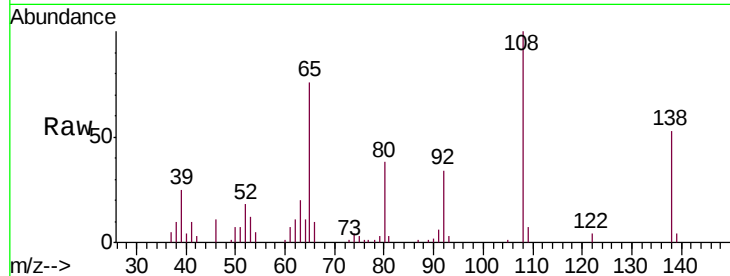




#61
4-Nitroaniline
Concen: 38.353 ng
RT: 15.86 min Scan# 2137
Delta R.T. -0.01 min
Lab File: BM016328.D
Acq: 13 Aug 2018 16:46

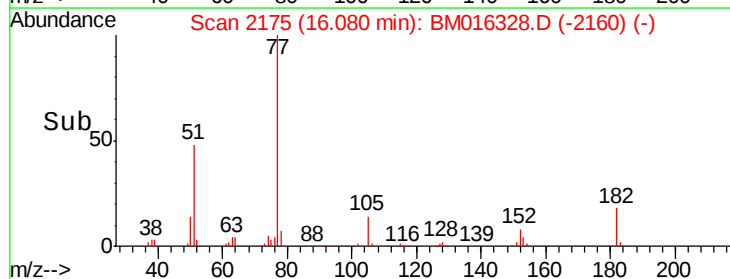
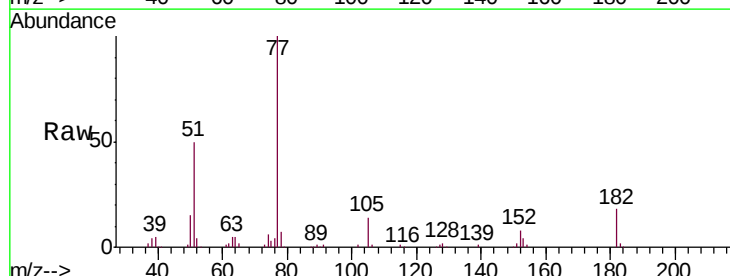
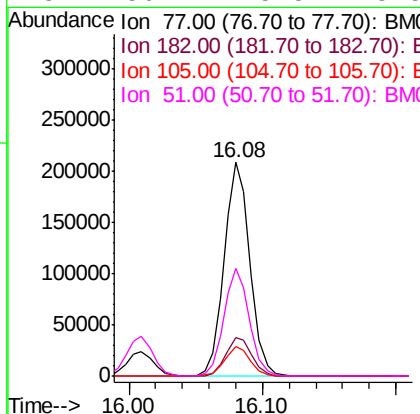
Instrument :
BNA_M
ClientSampleId :
EXCAVATION-SOILMSD

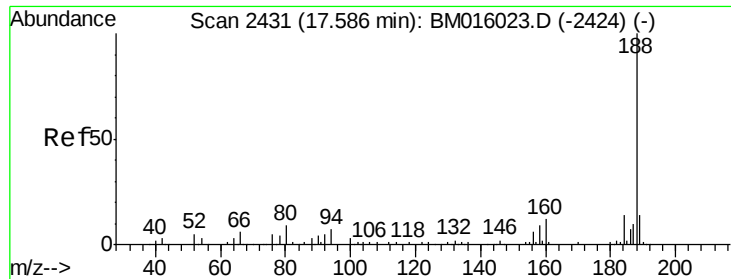
Tgt Ion:138 Resp: 37311
Ion Ratio Lower Upper
138 100
92 63.2 16.7 56.7#
108 187.6 37.6 77.6#



#62
Azobenzene
Concen: 53.114 ng
RT: 16.08 min Scan# 2175
Delta R.T. -0.01 min
Lab File: BM016328.D
Acq: 13 Aug 2018 16:46

Tgt Ion: 77 Resp: 281300
Ion Ratio Lower Upper
77 100
182 17.8 6.5 46.5
105 14.1 3.8 43.8
51 50.1 5.5 45.5#

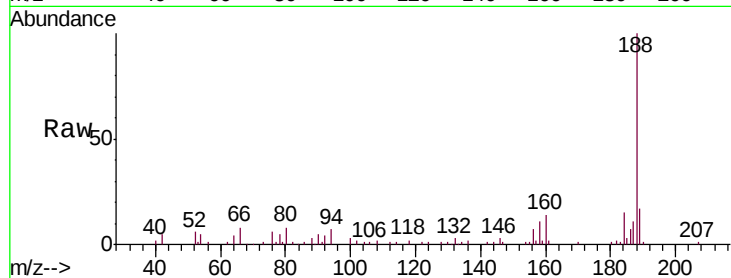




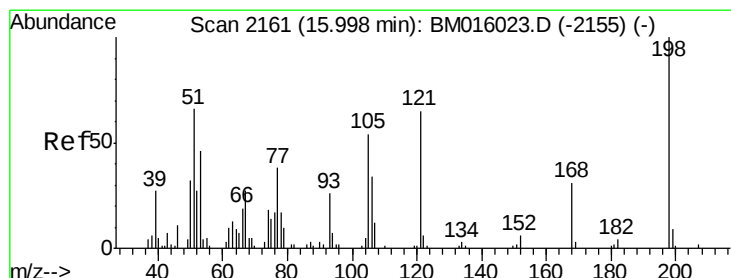
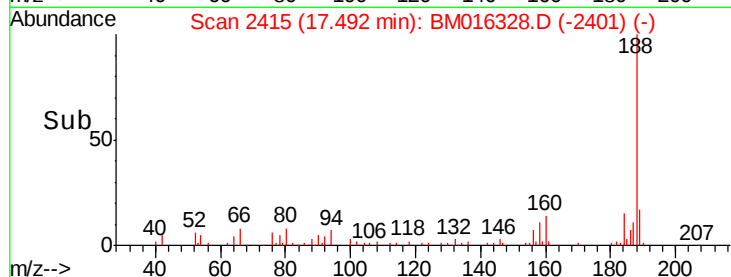
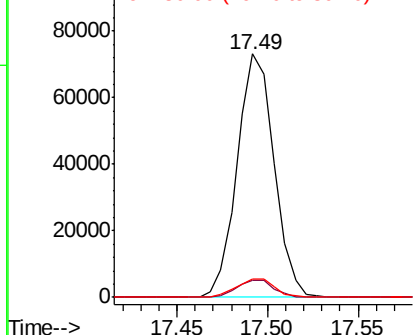
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.49 min Scan# 2415
Delta R.T. -0.02 min
Lab File: BM016328.D
Acq: 13 Aug 2018 16:46

Instrument :
BNA_M
ClientSampleId :
EXCAVATION-SOILMSD

Tgt Ion:188 Resp: 103504
Ion Ratio Lower Upper
188 100
94 7.0 8.7 13.1#
80 7.6 9.3 13.9#

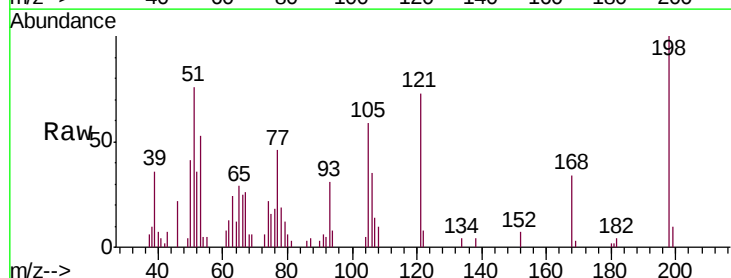


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BM
Ion 80.00 (79.70 to 80.70): BM

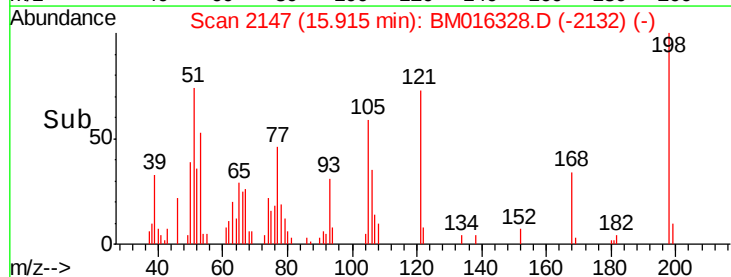
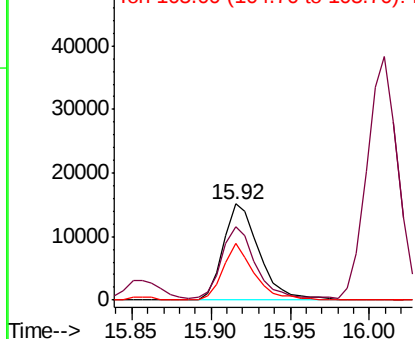


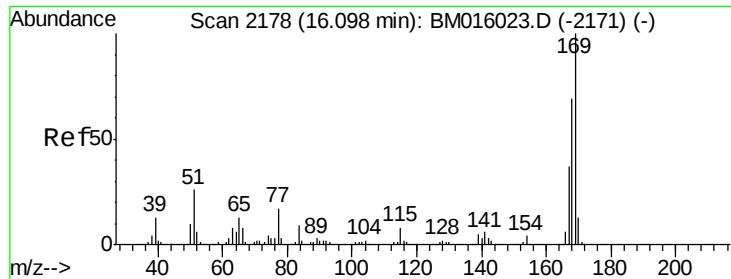
#64
4,6-Dinitro-2-methylphenol
Concen: 37.783 ng
RT: 15.92 min Scan# 2147
Delta R.T. -0.01 min
Lab File: BM016328.D
Acq: 13 Aug 2018 16:46

Tgt Ion:198 Resp: 23737
Ion Ratio Lower Upper
198 100
51 76.4 28.8 68.8#
105 58.7 30.5 70.5



Abundance Ion 198.00 (197.70 to 198.70): E
Ion 51.00 (50.70 to 51.70): BM
Ion 105.00 (104.70 to 105.70): E

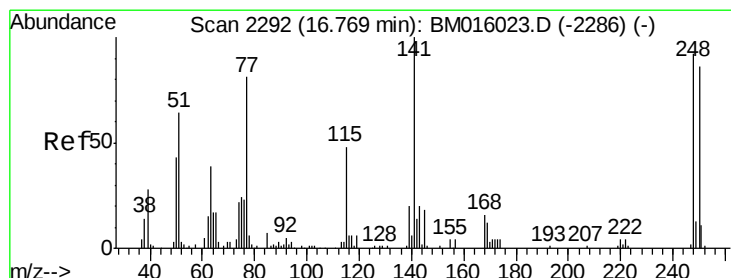
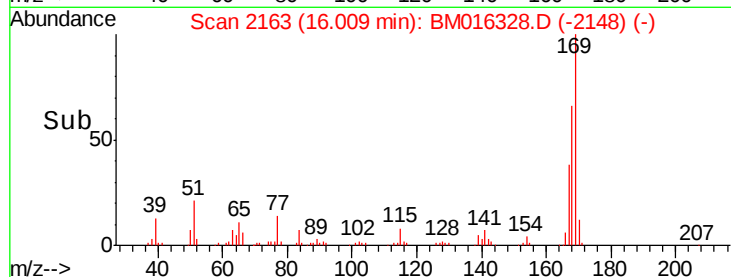
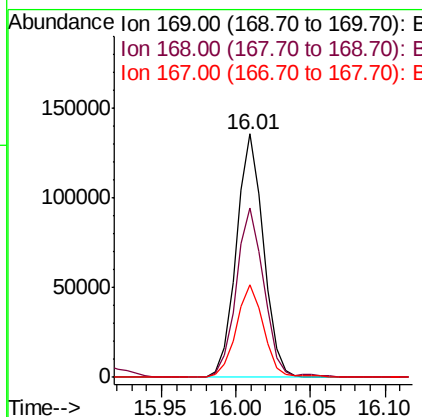
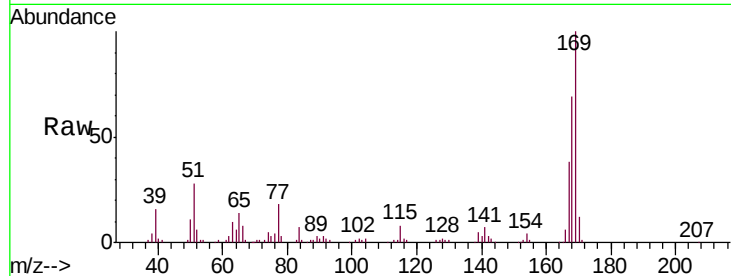




#65
 n-Nitrosodiphenylamine
 Concen: 50.360 ng
 RT: 16.01 min Scan# 2163
 Delta R.T. -0.01 min
 Lab File: BM016328.D
 Acq: 13 Aug 2018 16:46

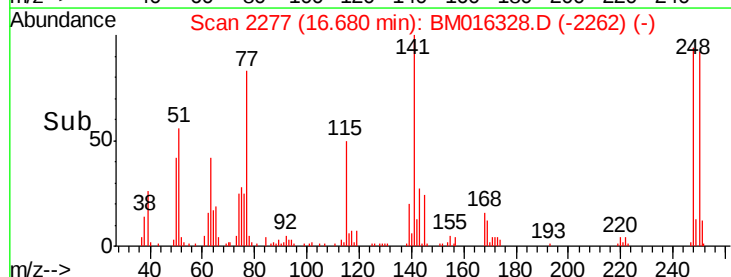
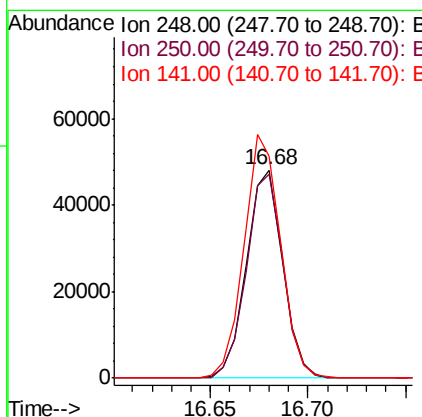
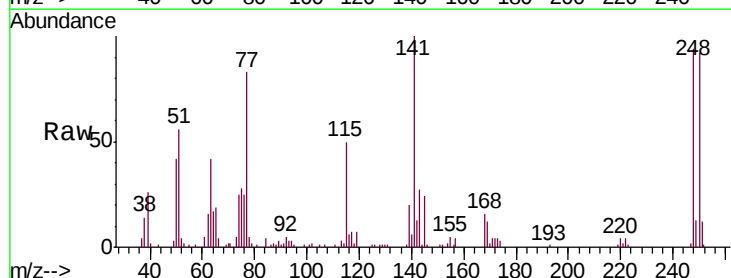
Instrument :
 BNA_M
 ClientSampleId :
 EXCAVATION-SOILMSD

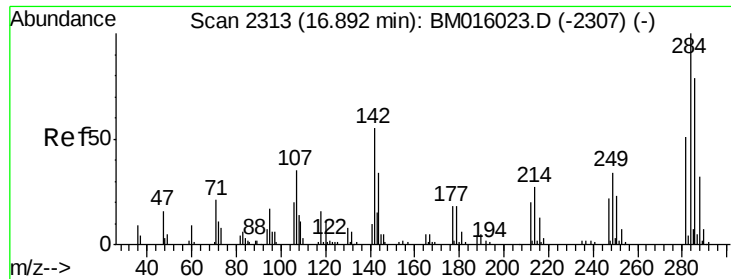
Tgt Ion:169 Resp: 171637
 Ion Ratio Lower Upper
 169 100
 168 69.4 53.9 80.9
 167 38.2 28.9 43.3



#66
 4-Bromophenyl-phenylether
 Concen: 52.975 ng
 RT: 16.68 min Scan# 2277
 Delta R.T. -0.01 min
 Lab File: BM016328.D
 Acq: 13 Aug 2018 16:46

Tgt Ion:248 Resp: 62088
 Ion Ratio Lower Upper
 248 100
 250 97.9 77.4 116.0
 141 106.5 45.2 67.8#





#67

Hexachlorobenzene

Concen: 47.371 ng

RT: 16.80 min Scan# 2297

Delta R.T. -0.01 min

Lab File: BM016328.D

Acq: 13 Aug 2018 16:46

Instrument :

BNA_M

ClientSampleId :

EXCAVATION-SOILMSD

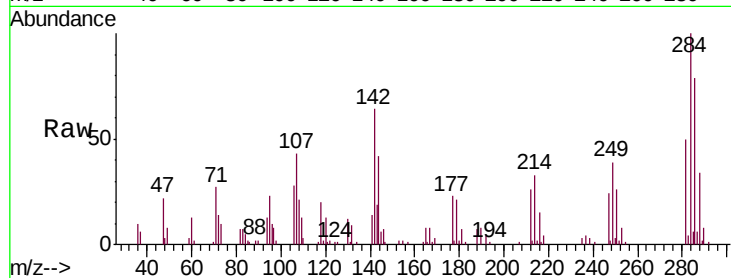
Tgt Ion:284 Resp: 61140

Ion Ratio Lower Upper

284 100

142 64.2 20.4 30.6#

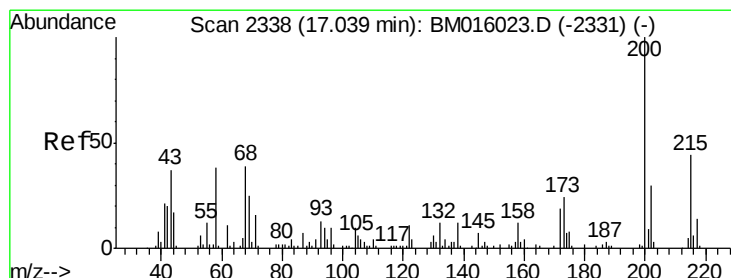
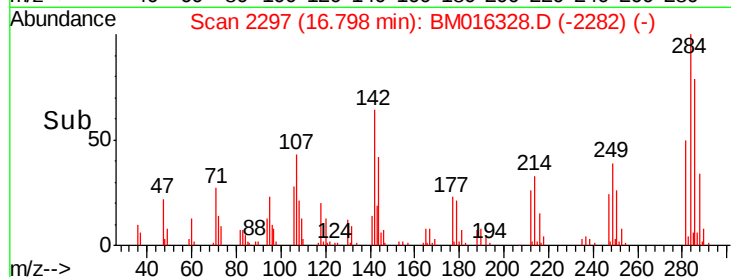
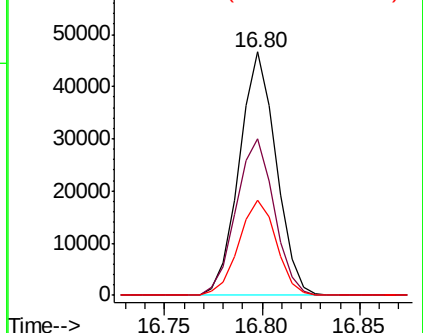
249 38.8 23.8 35.6#



Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E



#68

Atrazine

Concen: 53.733 ng

RT: 16.95 min Scan# 2323

Delta R.T. -0.01 min

Lab File: BM016328.D

Acq: 13 Aug 2018 16:46

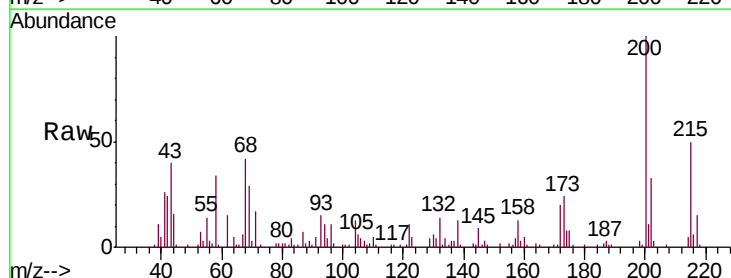
Tgt Ion:200 Resp: 65636

Ion Ratio Lower Upper

200 100

173 23.7 4.8 44.8

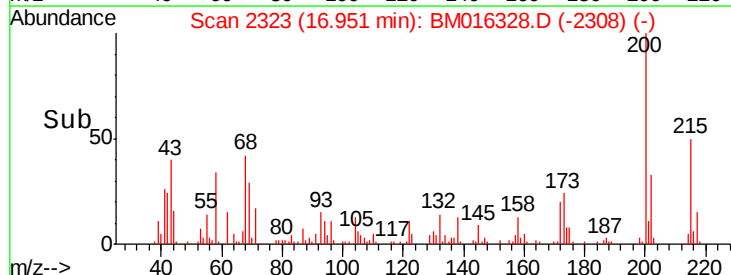
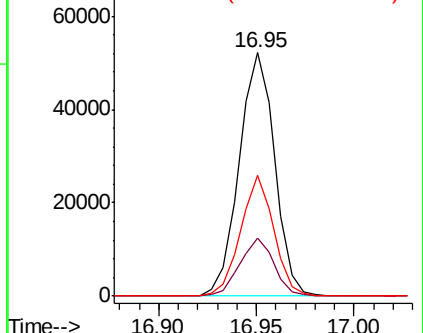
215 49.7 26.9 66.9

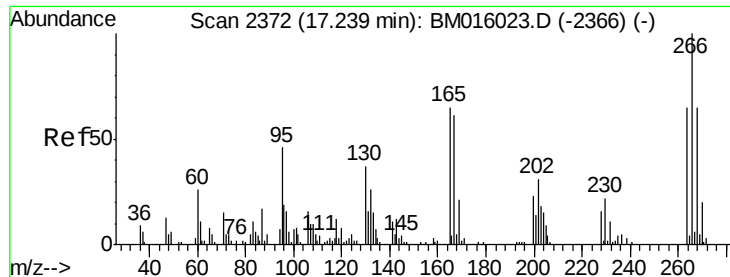


Abundance Ion 200.00 (199.70 to 200.70): E

Ion 173.00 (172.70 to 173.70): E

Ion 215.00 (214.70 to 215.70): E





#69

Pentachlorophenol

Concen: 73.987 ng

RT: 17.15 min Scan# 2357

Delta R.T. -0.01 min

Lab File: BM016328.D

Acq: 13 Aug 2018 16:46

Instrument :

BNA_M

ClientSampleId :

EXCAVATION-SOILMSD

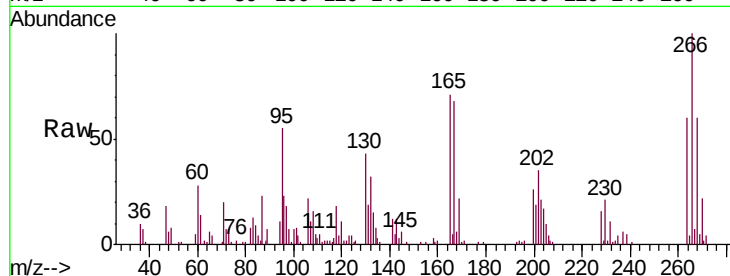
Tgt Ion:266 Resp: 59132

Ion Ratio Lower Upper

266 100

268 60.1 52.0 78.0

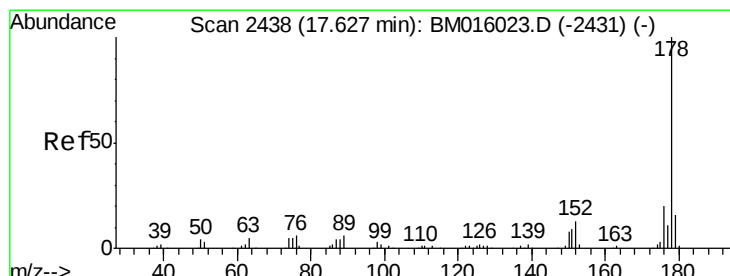
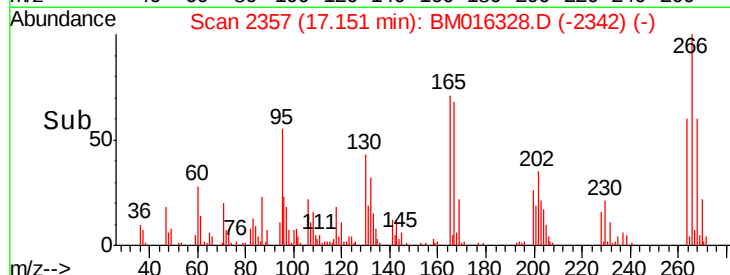
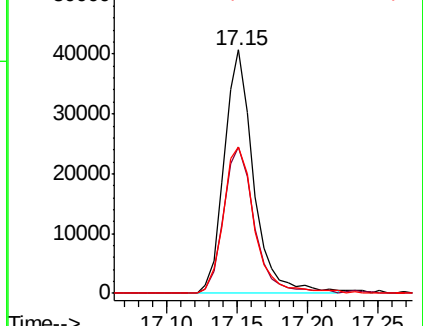
264 60.1 49.0 73.4



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



#70

Phenanthrene

Concen: 50.996 ng

RT: 17.54 min Scan# 2423

Delta R.T. -0.01 min

Lab File: BM016328.D

Acq: 13 Aug 2018 16:46

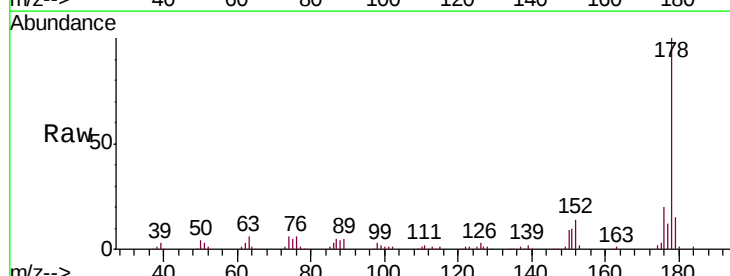
Tgt Ion:178 Resp: 295509

Ion Ratio Lower Upper

178 100

176 20.0 15.2 22.8

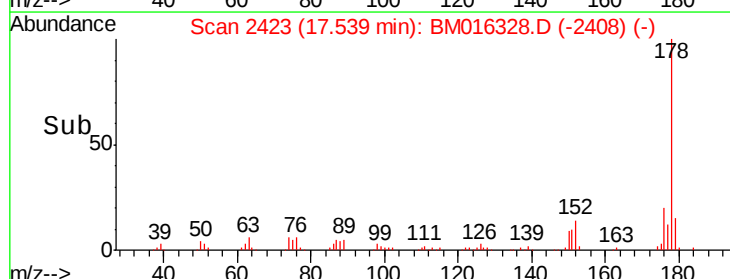
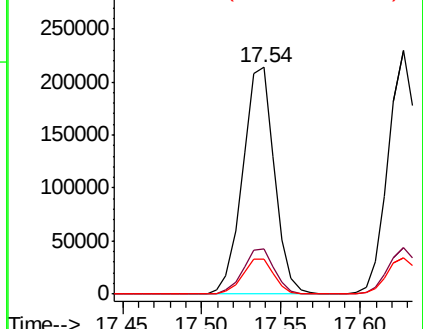
179 15.4 12.1 18.1



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

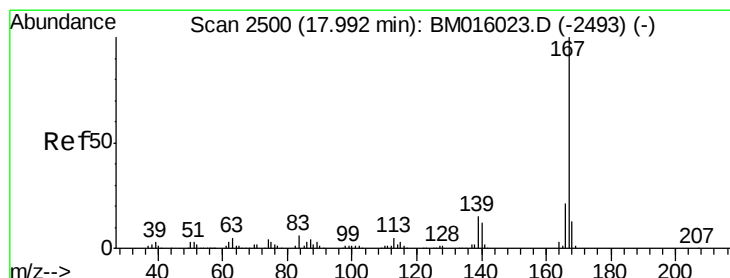
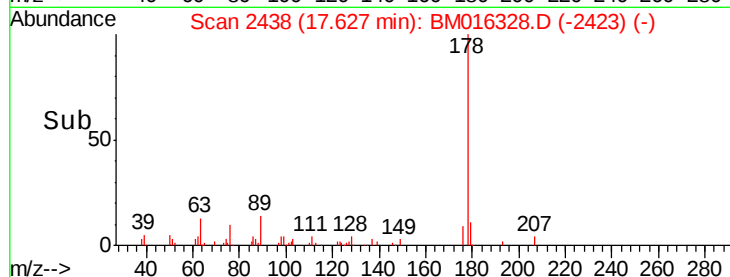
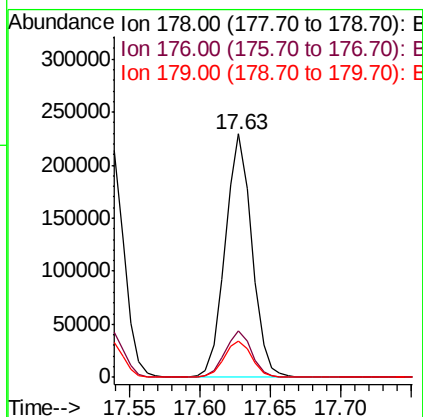
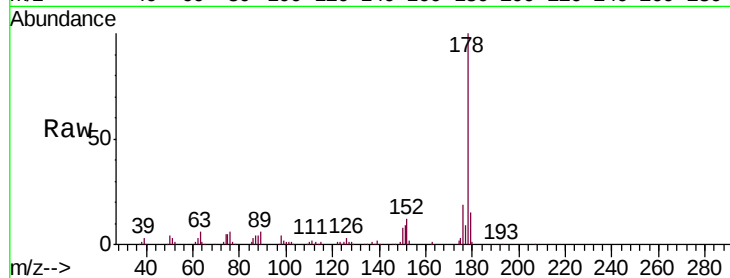




#71
 Anthracene
 Concen: 53.744 ng
 RT: 17.63 min Scan# 2438
 Delta R.T. -0.01 min
 Lab File: BM016328.D
 Acq: 13 Aug 2018 16:46

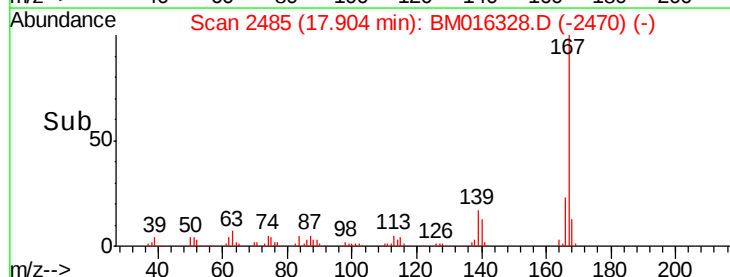
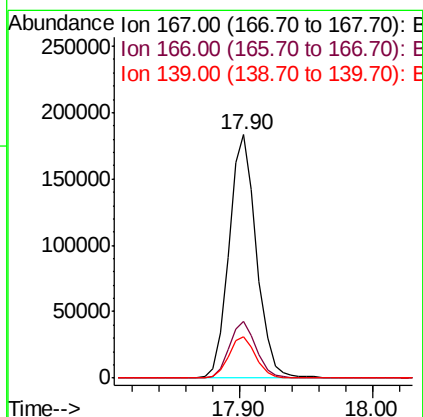
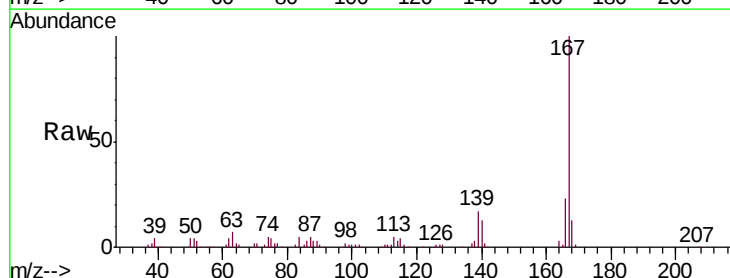
Instrument :
 BNA_M
 ClientSampleId :
 EXCAVATION-SOILMSD

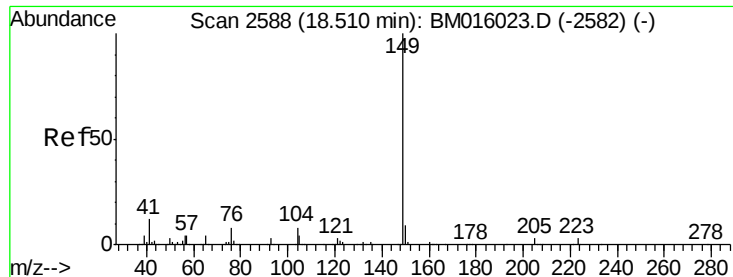
Tgt Ion:178 Resp: 302682
 Ion Ratio Lower Upper
 178 100
 176 19.3 14.6 22.0
 179 15.0 12.6 19.0



#72
 Carbazole
 Concen: 45.078 ng
 RT: 17.90 min Scan# 2485
 Delta R.T. -0.01 min
 Lab File: BM016328.D
 Acq: 13 Aug 2018 16:46

Tgt Ion:167 Resp: 263009
 Ion Ratio Lower Upper
 167 100
 166 23.1 17.2 25.8
 139 16.8 10.8 16.2#

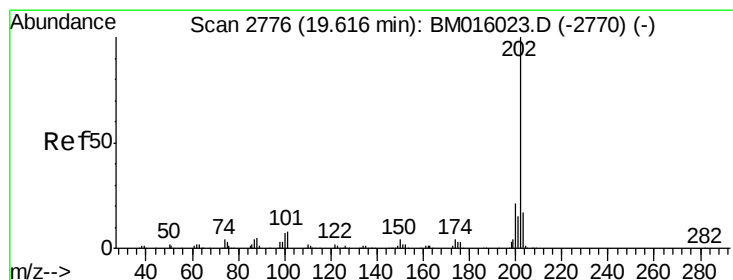
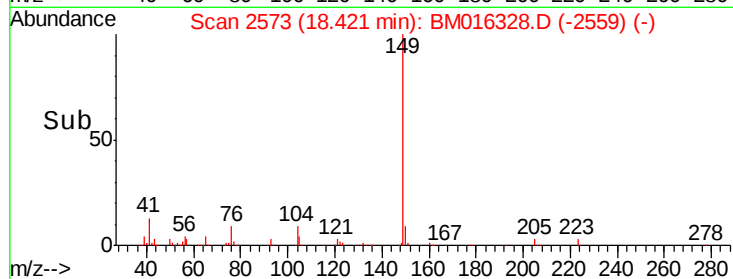
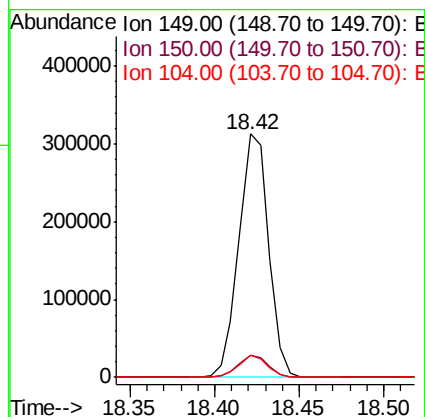
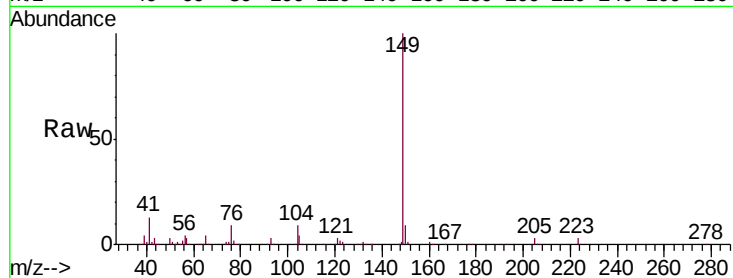




#73
Di-n-butylphthalate
Concen: 52.902 ng
RT: 18.42 min Scan# 2573
Delta R.T. -0.02 min
Lab File: BM016328.D
Acq: 13 Aug 2018 16:46

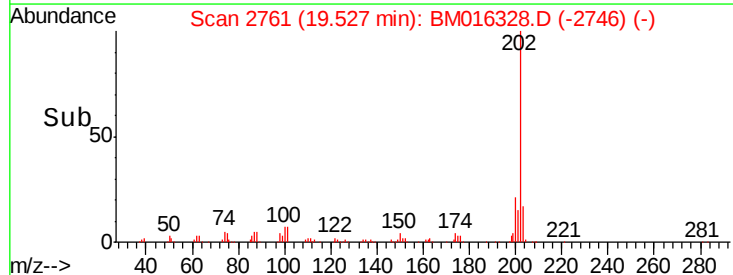
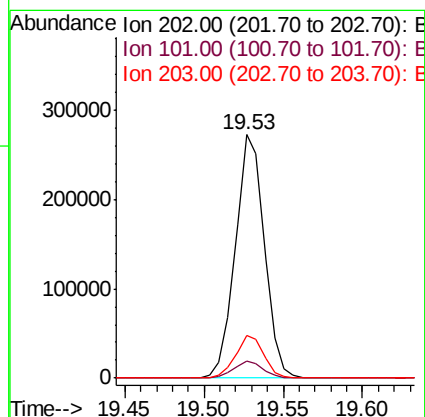
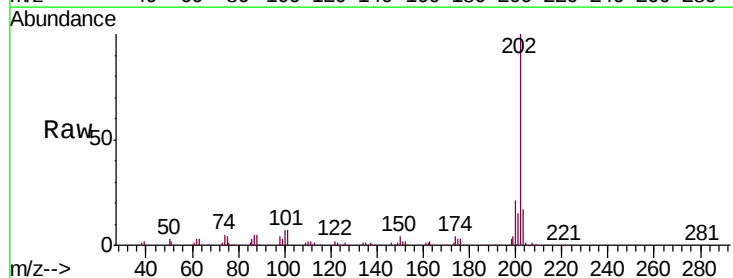
Instrument :
BNA_M
ClientSampleId :
EXCAVATION-SOILMSD

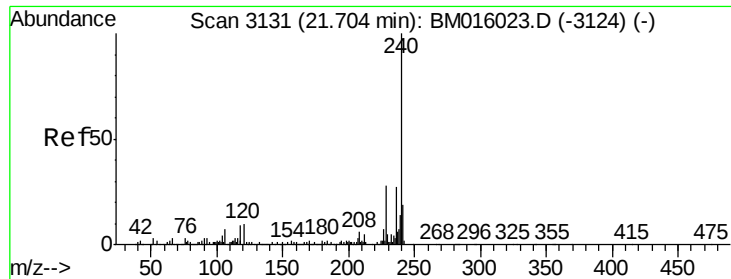
Tgt Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.5	11.3
104	8.9	3.7	5.5#



#74
Fluoranthene
Concen: 53.515 ng
RT: 19.53 min Scan# 2761
Delta R.T. -0.01 min
Lab File: BM016328.D
Acq: 13 Aug 2018 16:46

Tgt Ion	Ratio	Lower	Upper
202	100		
101	6.8	0.0	28.7
203	17.4	0.0	37.2





#75

Chrysene-d12

Concen: 20.000 ng

RT: 21.63 min Scan# 3118

Delta R.T. -0.01 min

Lab File: BM016328.D

Acq: 13 Aug 2018 16:46

Instrument :

BNA_M

ClientSampleId :

EXCAVATION-SOILMSD

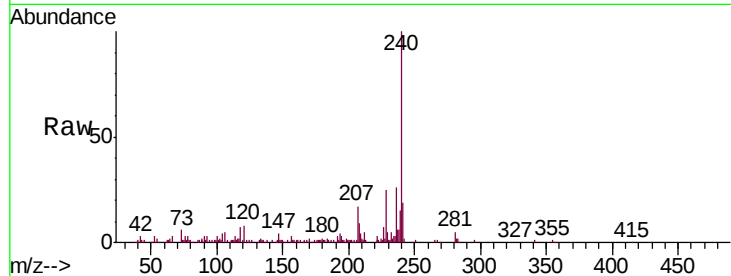
Tgt Ion:240 Resp: 128333

Ion Ratio Lower Upper

240 100

120 7.5 8.2 12.2#

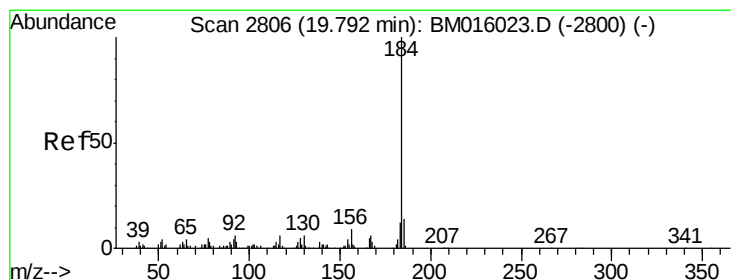
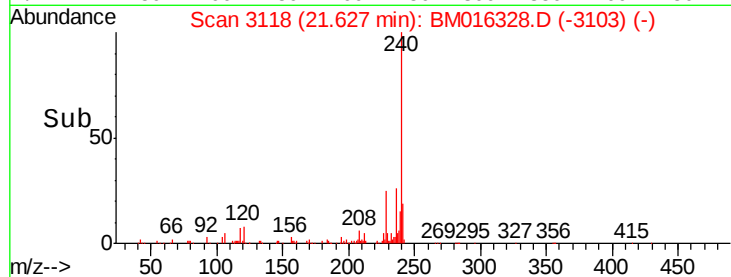
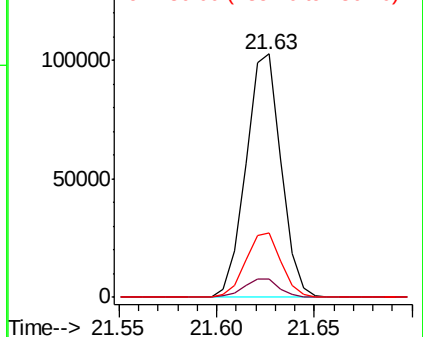
236 26.5 20.0 30.0



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



#76

Benzidine

Concen: 31.686 ng

RT: 19.72 min Scan# 2793

Delta R.T. -0.01 min

Lab File: BM016328.D

Acq: 13 Aug 2018 16:46

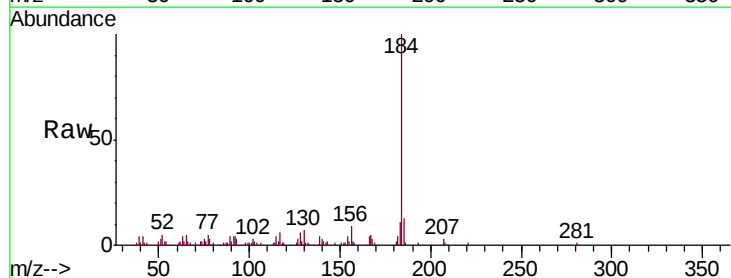
Tgt Ion:184 Resp: 113630

Ion Ratio Lower Upper

184 100

185 12.7 11.3 16.9

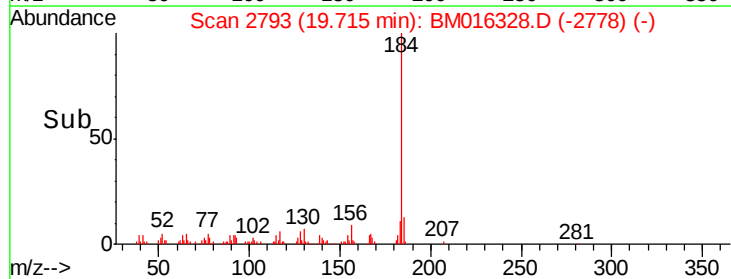
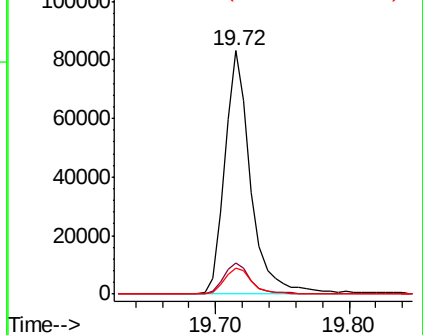
183 10.7 8.9 13.3

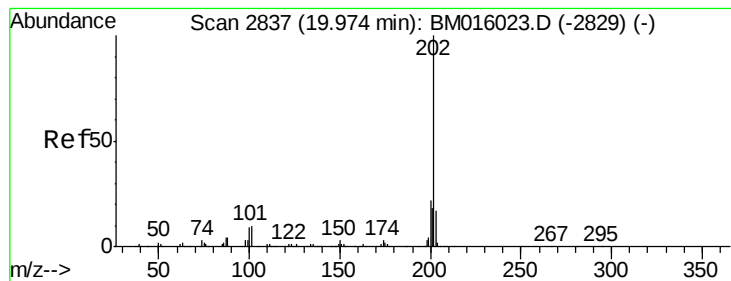


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





#77

Pyrene

Concen: 46.312 ng

RT: 19.89 min Scan# 2823

Delta R.T. -0.01 min

Lab File: BM016328.D

Acq: 13 Aug 2018 16:46

Instrument :

BNA_M

ClientSampleId :

EXCAVATION-SOILMSD

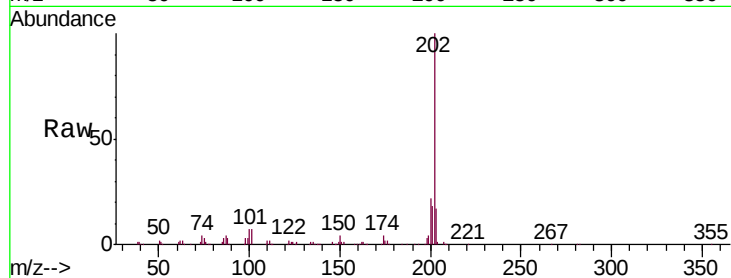
Tgt Ion:202 Resp: 356168

Ion Ratio Lower Upper

202 100

200 21.8 16.9 25.3

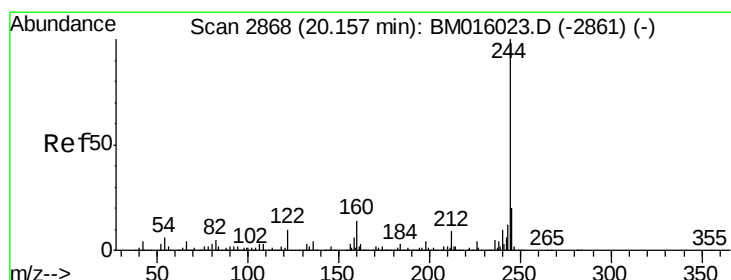
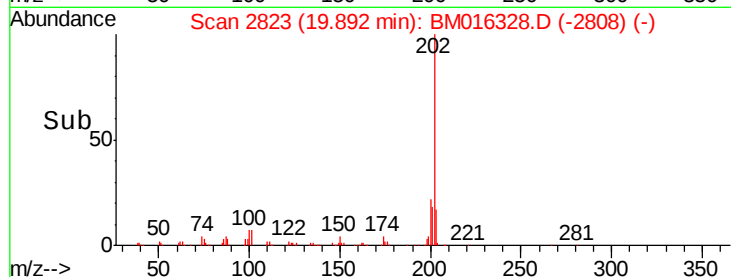
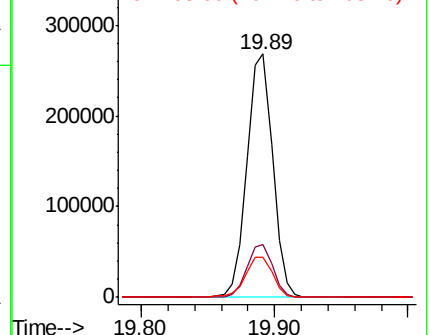
203 16.5 14.1 21.1



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



#78

Terphenyl-d14

Concen: 46.312 ng

RT: 20.07 min Scan# 2854

Delta R.T. -0.01 min

Lab File: BM016328.D

Acq: 13 Aug 2018 16:46

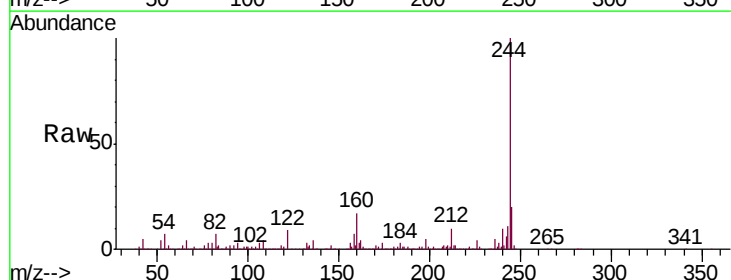
Tgt Ion:244 Resp: 692426

Ion Ratio Lower Upper

244 100

212 10.5 4.9 7.3#

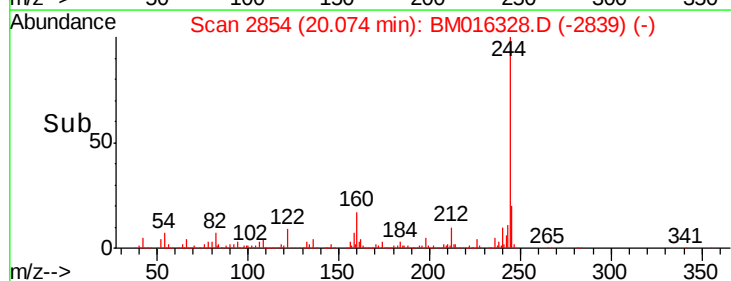
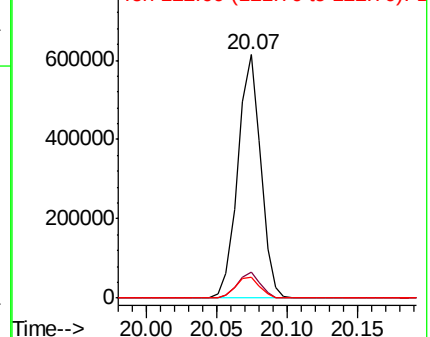
122 8.8 6.2 9.4

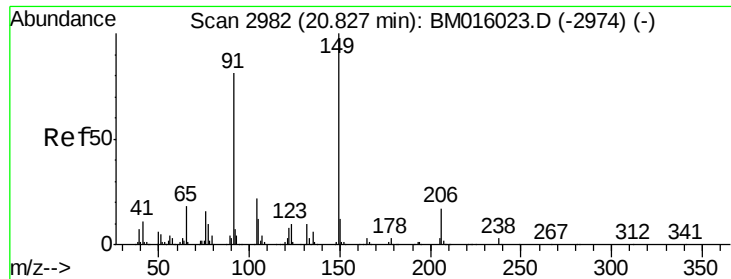


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

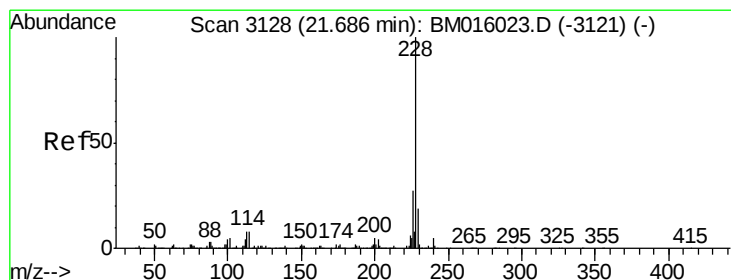
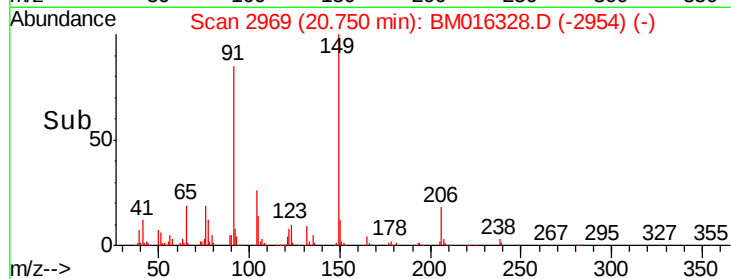
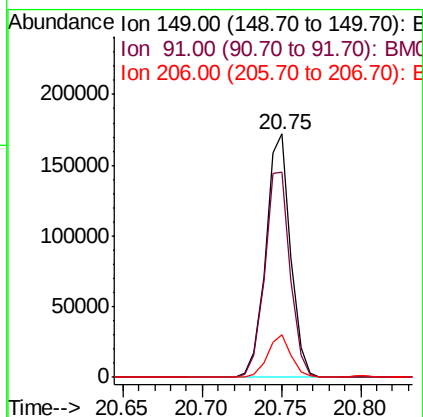
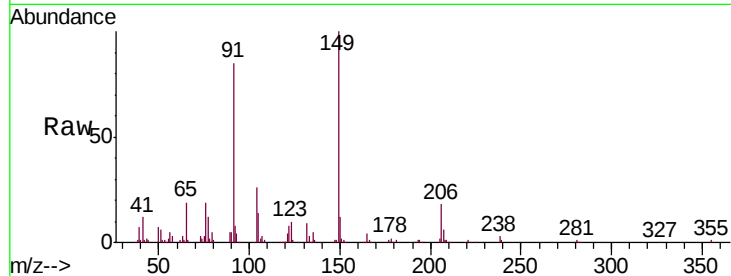




#79
Butylbenzylphthalate
Concen: 48.151 ng
RT: 20.75 min Scan# 2969
Delta R.T. -0.01 min
Lab File: BM016328.D
Acq: 13 Aug 2018 16:46

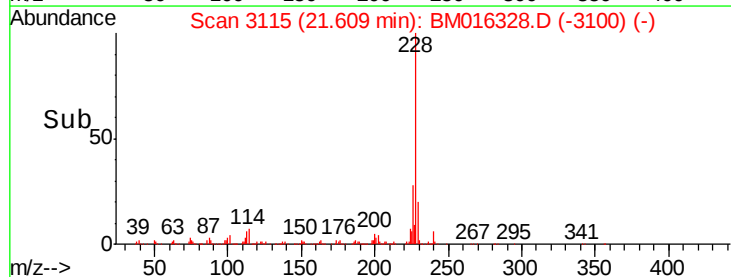
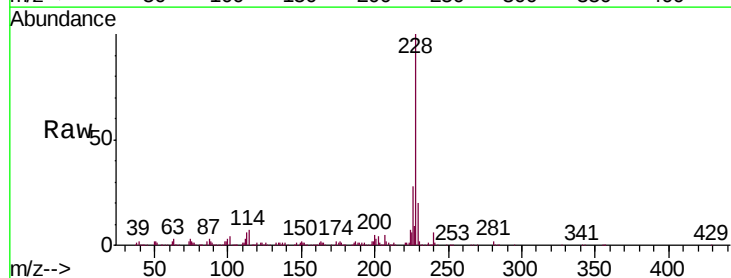
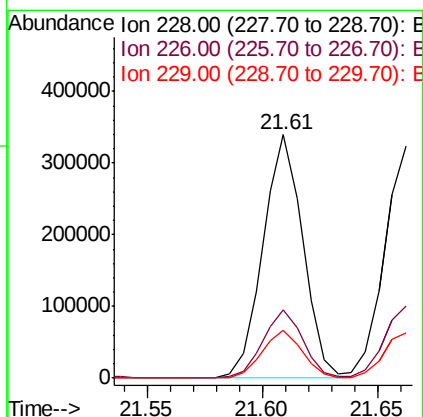
Instrument :
BNA_M
ClientSampleId :
EXCAVATION-SOILMSD

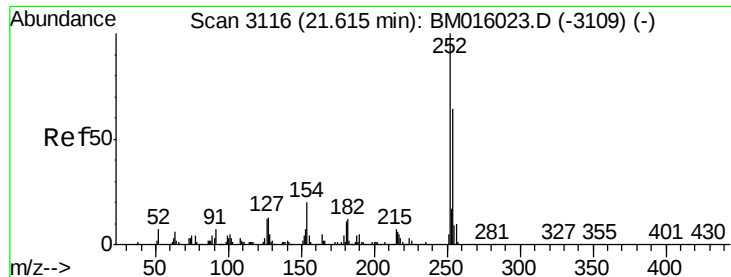
Tgt Ion	Ratio	Lower	Upper
149	100		
91	84.5	50.1	75.1#
206	17.6	16.2	24.2



#80
Benzo(a)anthracene
Concen: 51.514 ng
RT: 21.61 min Scan# 3115
Delta R.T. -0.01 min
Lab File: BM016328.D
Acq: 13 Aug 2018 16:46

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.2	21.7	32.5
229	19.7	16.0	24.0

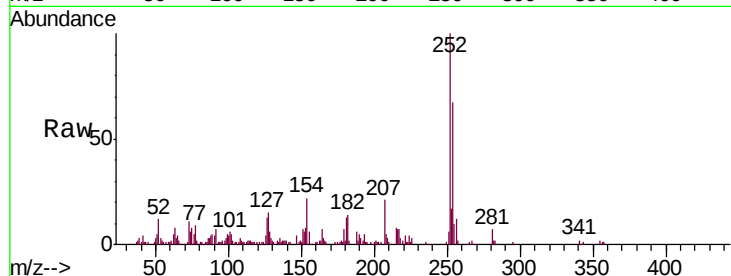




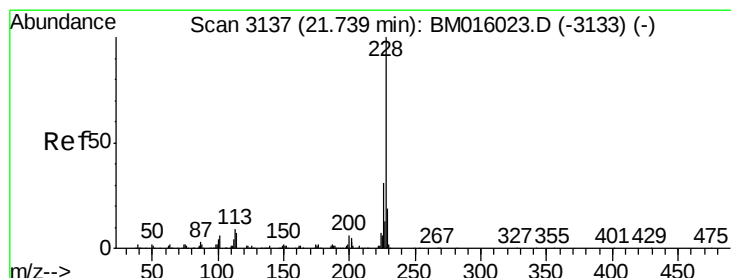
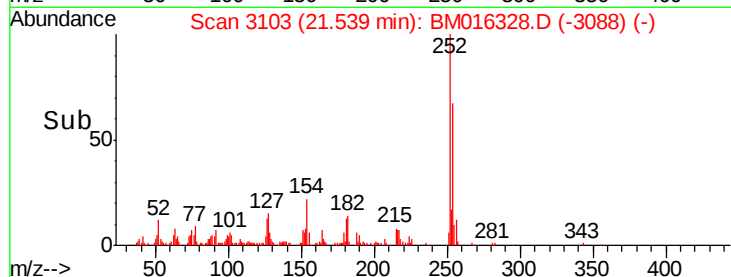
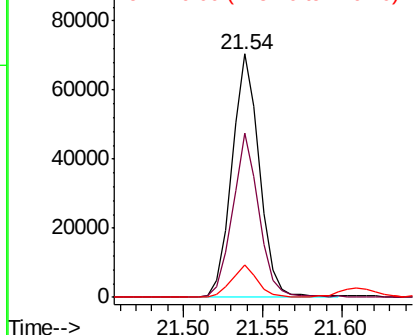
#81
 3,3'-Dichlorobenzidine
 Concen: 26.568 ng
 RT: 21.54 min Scan# 3103
 Delta R.T. -0.01 min
 Lab File: BM016328.D
 Acq: 13 Aug 2018 16:46

Instrument :
 BNA_M
 ClientSampleId :
 EXCAVATION-SOILMSD

Tgt Ion: 252 Resp: 84584
 Ion Ratio Lower Upper
 252 100
 254 67.3 51.9 77.9
 126 13.2 9.8 14.8

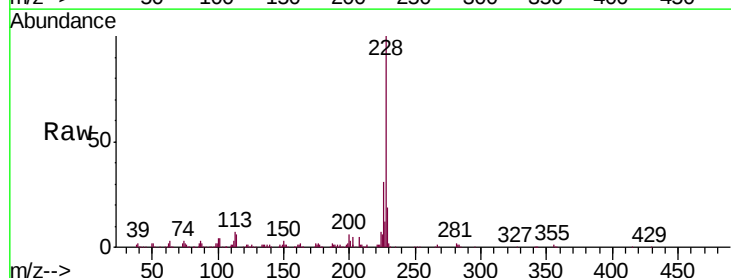


Abundance Ion 252.00 (251.70 to 252.70): E
 Ion 254.00 (253.70 to 254.70): E
 Ion 126.00 (125.70 to 126.70): E

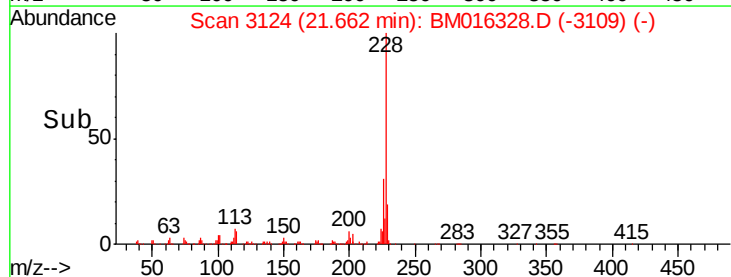
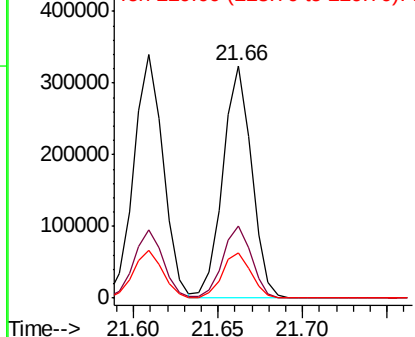


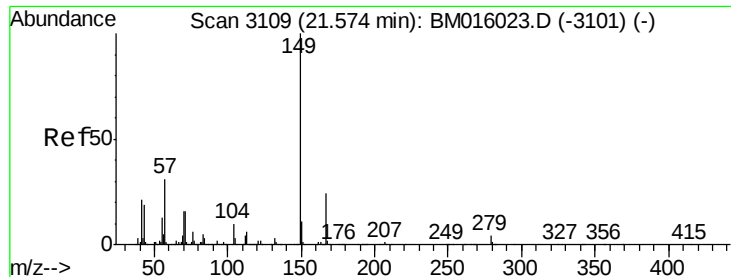
#82
 Chrysene
 Concen: 50.693 ng
 RT: 21.66 min Scan# 3124
 Delta R.T. -0.01 min
 Lab File: BM016328.D
 Acq: 13 Aug 2018 16:46

Tgt Ion: 228 Resp: 384362
 Ion Ratio Lower Upper
 228 100
 226 31.0 24.1 36.1
 229 19.3 15.5 23.3



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

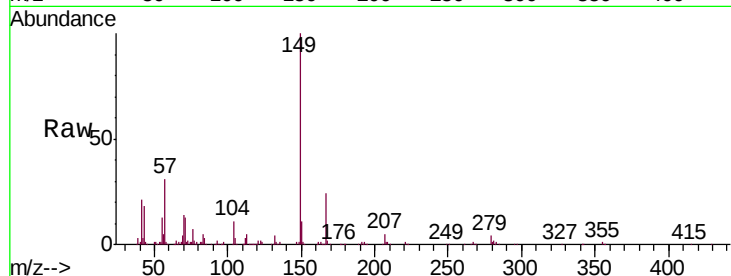




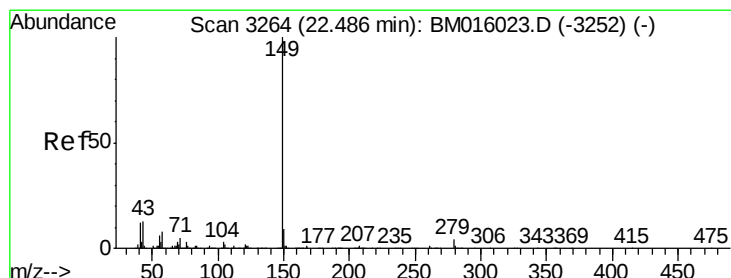
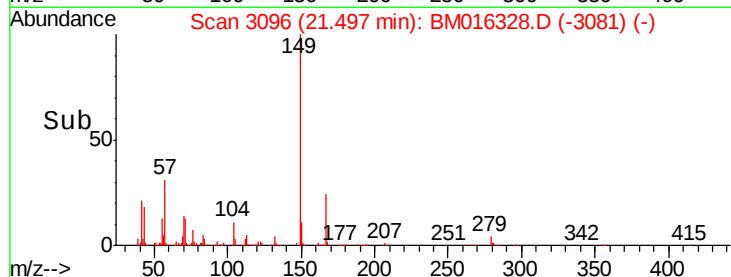
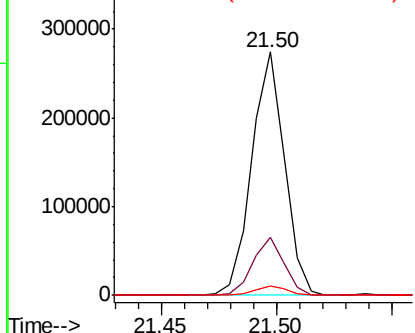
#83
 Bis(2-ethylhexyl)phthalate
 Concen: 48.245 ng
 RT: 21.50 min Scan# 3096
 Delta R.T. -0.01 min
 Lab File: BM016328.D
 Acq: 13 Aug 2018 16:46

Instrument :
 BNA_M
 ClientSampleId :
 EXCAVATION-SOILMSD

Tgt Ion	Ratio	Lower	Upper
149	100		
167	23.6	22.4	33.6
279	4.0	3.4	5.0

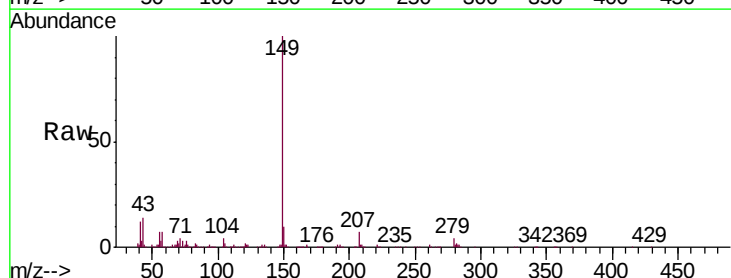


Abundance Ion 149.00 (148.70 to 149.70): E
 Ion 167.00 (166.70 to 167.70): E
 Ion 279.00 (278.70 to 279.70): E

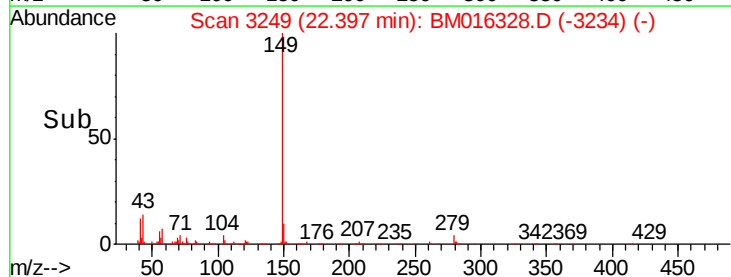
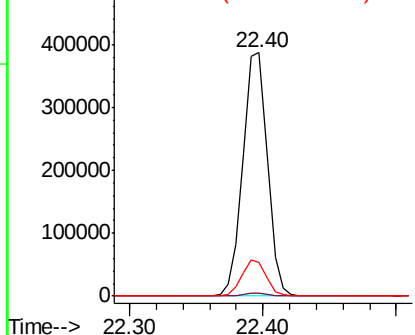


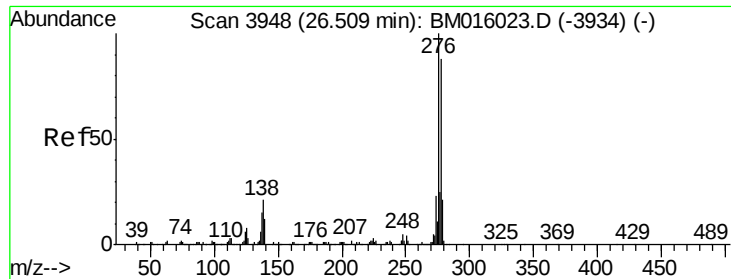
#84
 Di-n-octyl phthalate
 Concen: 51.460 ng
 RT: 22.40 min Scan# 3249
 Delta R.T. -0.01 min
 Lab File: BM016328.D
 Acq: 13 Aug 2018 16:46

Tgt Ion	Ratio	Lower	Upper
149	100		
167	1.4	1.2	1.8
43	14.4	7.3	10.9#



Abundance Ion 149.00 (148.70 to 149.70): E
 Ion 167.00 (166.70 to 167.70): E
 Ion 43.00 (42.70 to 43.70): BM

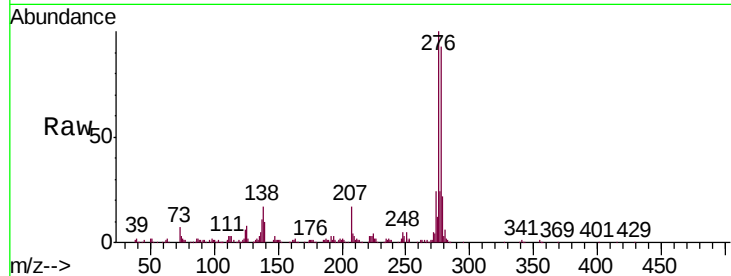




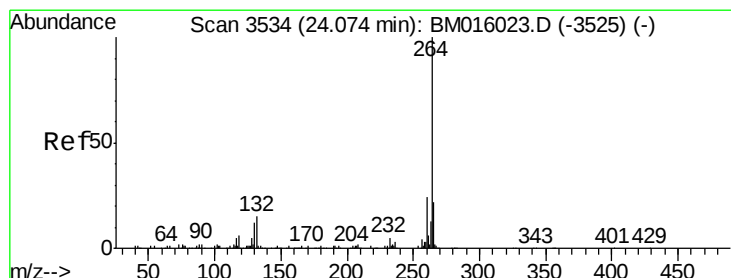
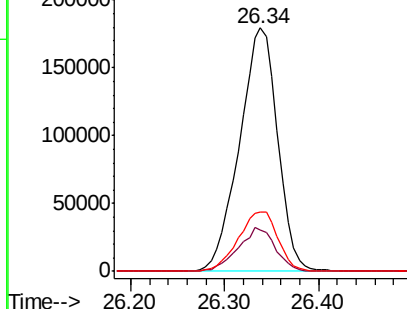
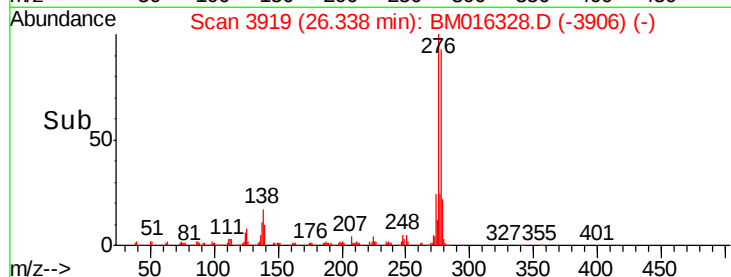
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 56.182 ng
 RT: 26.34 min Scan# 3919
 Delta R.T. -0.02 min
 Lab File: BM016328.D
 Acq: 13 Aug 2018 16:46

Instrument :
 BNA_M
 ClientSampleId :
 EXCAVATION-SOILMSD

Tgt Ion	Ratio	Lower	Upper
276	100		
138	17.5	12.0	18.0
277	25.4	20.0	30.0

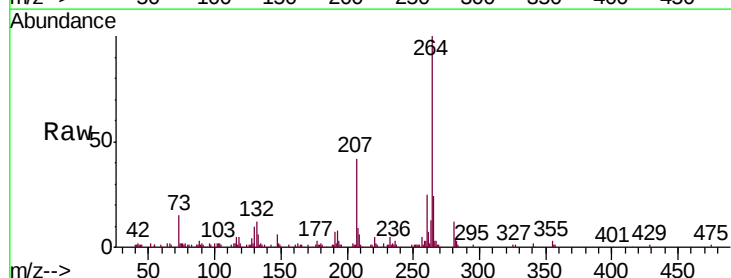


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

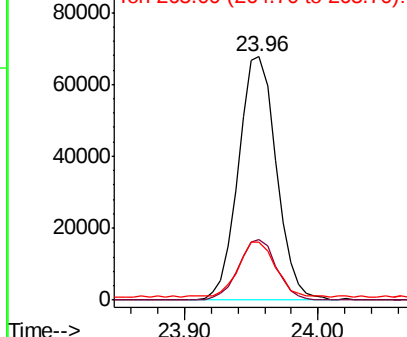
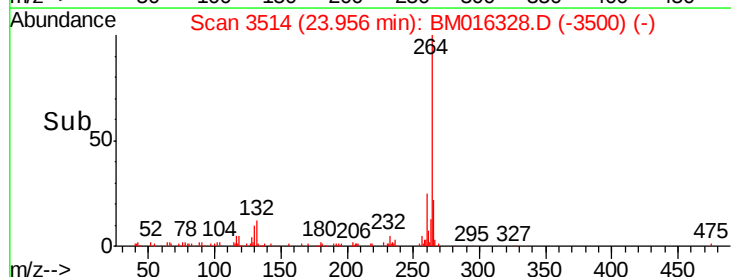


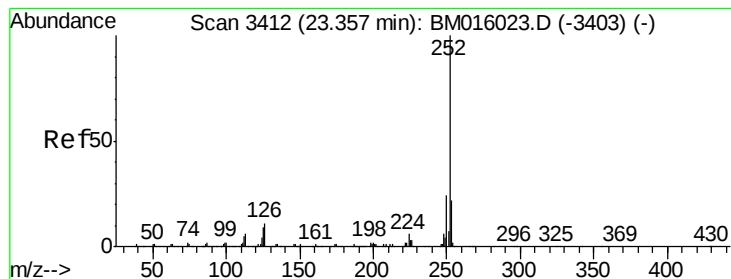
#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 23.96 min Scan# 3514
 Delta R.T. -0.02 min
 Lab File: BM016328.D
 Acq: 13 Aug 2018 16:46

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.9	18.6	27.8
265	23.7	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





#87

Benzo(b)fluoranthene

Concen: 54.734 ng

RT: 23.25 min Scan# 3394

Delta R.T. -0.02 min

Lab File: BM016328.D

Acq: 13 Aug 2018 16:46

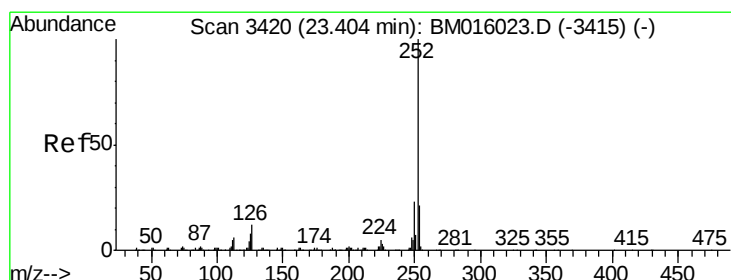
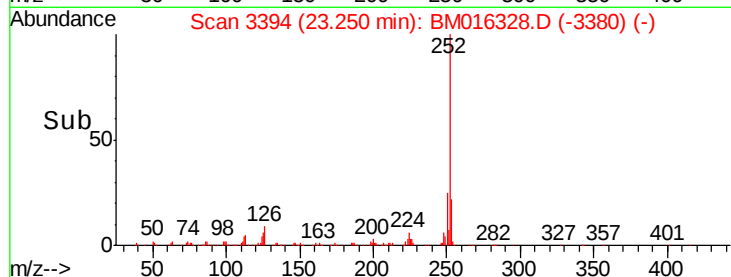
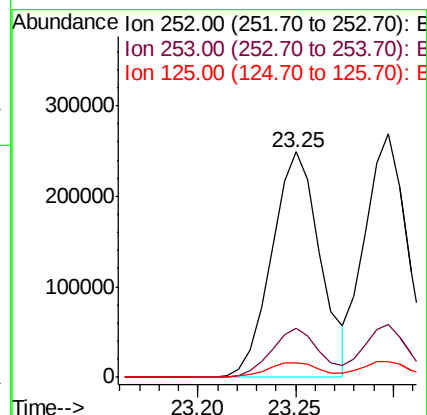
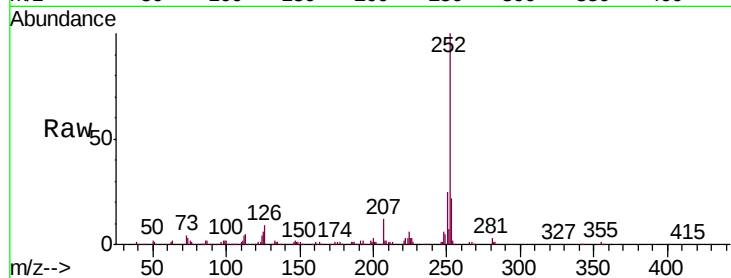
Instrument :

BNA_M

ClientSampleId :

EXCAVATION-SOILMSD

Tgt Ion:	252	Resp:	429159
Ion Ratio	Lower	Upper	
252	100		
253	22.1	18.0	27.0
125	6.2	9.9	14.9#



#88

Benzo(k)fluoranthene

Concen: 50.929 ng

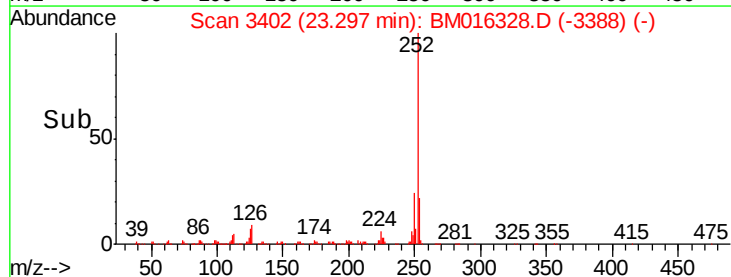
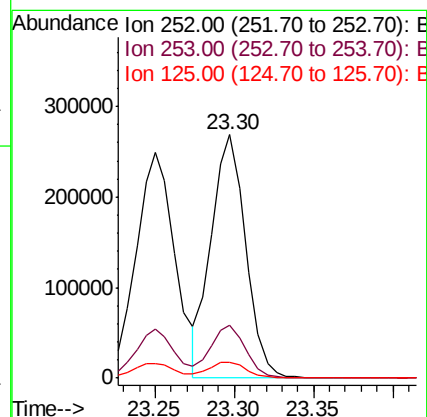
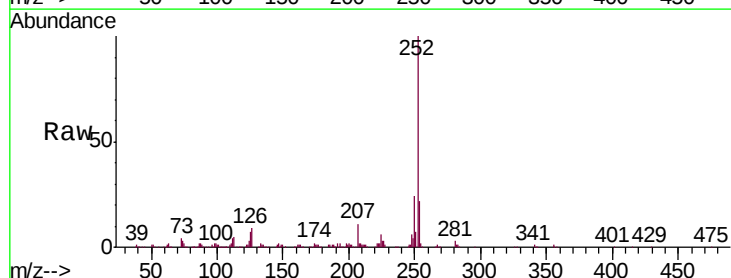
RT: 23.30 min Scan# 3402

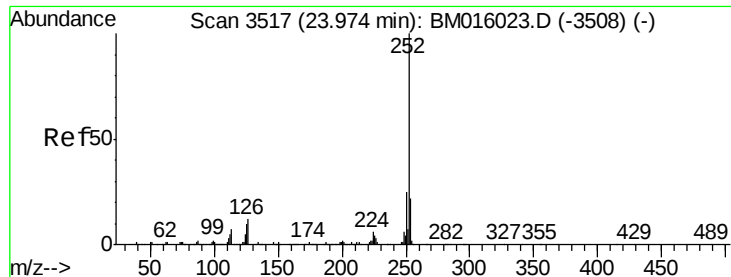
Delta R.T. -0.02 min

Lab File: BM016328.D

Acq: 13 Aug 2018 16:46

Tgt Ion:	252	Resp:	404694
Ion Ratio	Lower	Upper	
252	100		
253	21.9	17.2	25.8
125	6.6	8.1	12.1#





#89

Benzo(a)pyrene

Concen: 54.603 ng

RT: 23.86 min Scan# 3497

Delta R.T. -0.02 min

Lab File: BM016328.D

Acq: 13 Aug 2018 16:46

Instrument :

BNA_M

ClientSampleId :

EXCAVATION-SOILMSD

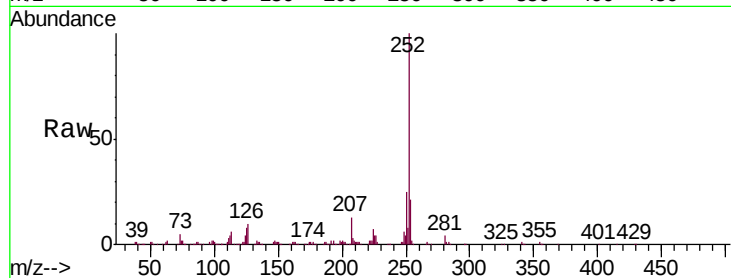
Tgt Ion: 252 Resp: 411575

Ion Ratio Lower Upper

252 100

253 20.9 17.6 26.4

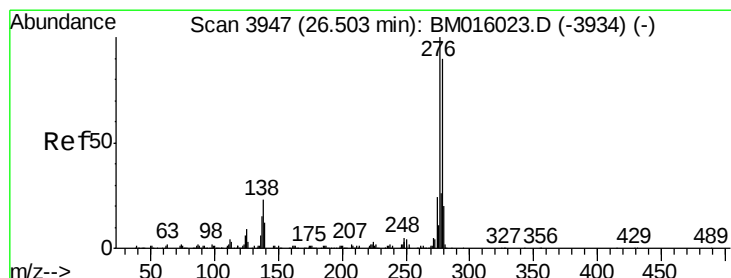
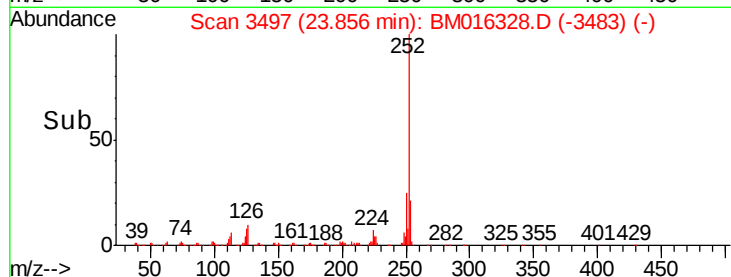
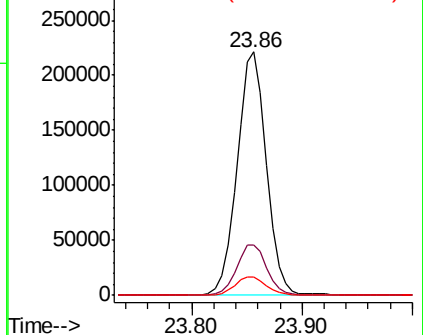
125 7.8 7.4 11.2



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

Dibenzo(a,h)anthracene

Concen: 54.949 ng

RT: 26.34 min Scan# 3919

Delta R.T. -0.02 min

Lab File: BM016328.D

Acq: 13 Aug 2018 16:46

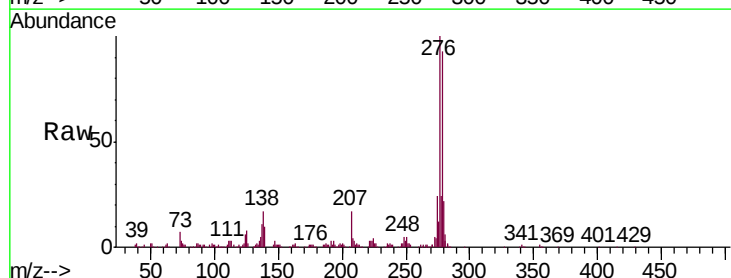
Tgt Ion: 278 Resp: 429126

Ion Ratio Lower Upper

278 100

139 10.5 13.4 20.0#

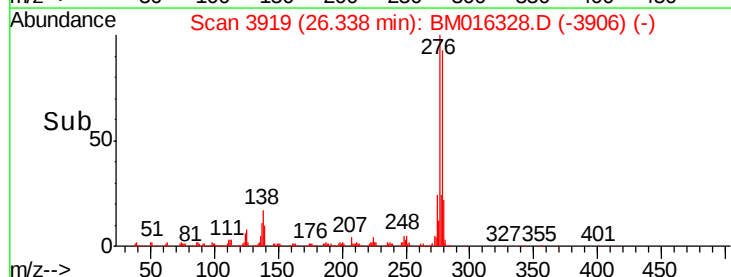
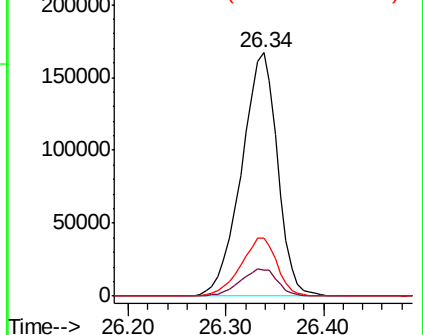
279 23.9 19.0 28.4

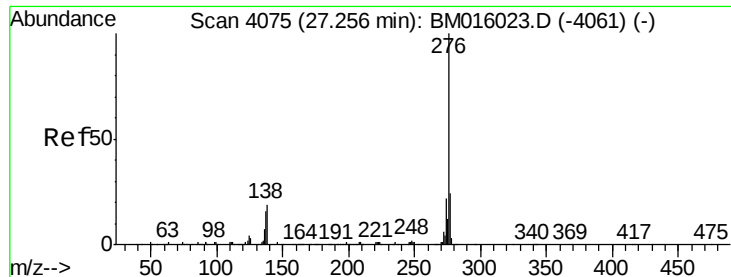


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#91
 Benzo(g,h,i)perylene
 Concen: 54.108 ng
 RT: 27.07 min Scan# 4044
 Delta R.T. -0.02 min
 Lab File: BM016328.D
 Acq: 13 Aug 2018 16:46

Instrument :
 BNA_M
 ClientSampleId :
 EXCAVATION-SOILMSD

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.1	18.5	27.7
138	16.1	19.0	28.6

