

Data Path : Z:\HPCHEM1\BNA F\DATA\BF101916\
 Data File : BF090647.D
 Acq On : 19 Oct 2016 15:04
 Operator : UM/SJ
 Sample : H5291-01MS
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CUTTINGSMS

Manual Integrations
 APPROVED

Sohil
 10/20/2016 10:36:47 AM

Quant Time: Oct 19 16:16:31 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF101316.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 19 15:13:23 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.89	152	248317	20.00	ng	0.00
21) Naphthalene-d8	8.18	136	1157433	20.00	ng	0.00
38) Acenaphthene-d10	9.94	164	638034	20.00	ng	0.00
63) Phenanthrene-d10	11.42	188	1053841	20.00	ng	0.00
75) Chrysene-d12	14.06	240	905875	20.00	ng	0.00
86) Perylene-d12	15.52	264	652107	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.51	112	1616859	119.37	ng	0.02
7) Phenol-d6	6.53	99	1988290	98.79	ng	0.00
23) Nitrobenzene-d5	7.46	82	1438264	69.03	ng	0.00
41) 2,4,6-Tribromophenol	10.73	330	597386	105.02	ng	0.00
44) 2-Fluorobiphenyl	9.25	172	2481522	64.08	ng	-0.01
78) Terphenyl-d14	13.01	244	2816439	72.39	ng	0.00

Target Compounds

						Qvalue
2) 1,4-Dioxane	2.69	88	234513m	30.38	ng	
3) Pyridine	3.40	79	647013m	37.39	ng	
4) n-Nitrosodimethylamine	3.32	42	257846m	42.58	ng	
6) Aniline	6.55	93	464231	19.09	ng	# 76
8) 2-Chlorophenol	6.68	128	691530	39.37	ng	87
9) Benzaldehyde	6.44	77	84939	6.64	ng	98
10) Phenol	6.54	94	748575	32.52	ng	99
11) bis(2-Chloroethyl)ether	6.62	93	704873	37.11	ng	93
12) 1,3-Dichlorobenzene	6.83	146	618455	35.31	ng	98
13) 1,4-Dichlorobenzene	6.91	146	639894	33.59	ng	99
14) 1,2-Dichlorobenzene	7.06	146	609584	34.23	ng	99
15) Benzyl Alcohol	7.03	79	574485	41.91	ng	98
16) 2,2'-oxybis(1-Chloropropan	7.17	45	942245	35.25	ng	93
17) 2-Methylphenol	7.15	107	538860	39.37	ng	97
18) Hexachloroethane	7.40	117	248316	32.98	ng	98
19) n-Nitroso-di-n-propylamine	7.31	70	554043	40.15	ng	# 91
20) 3+4-Methylphenols	7.31	107	685002	41.28	ng	# 78
22) Acetophenone	7.30	105	946696	37.02	ng	# 93
24) Nitrobenzene	7.47	77	741922	34.70	ng	98
25) Isophorone	7.72	82	1482146	39.08	ng	# 93
26) 2-Nitrophenol	7.79	139	342194	35.27	ng	97
27) 2,4-Dimethylphenol	7.83	122	632333	39.28	ng	100
28) bis(2-Chloroethoxy)methane	7.93	93	908887	40.59	ng	100
29) 2,4-Dichlorophenol	8.04	162	535645	37.99	ng	98
30) 1,2,4-Trichlorobenzene	8.12	180	565629	34.25	ng	99
31) Naphthalene	8.20	128	2100877	35.63	ng	99
32) Benzoic acid	7.97	122	344838	34.88	ng	99
33) 4-Chloroaniline	8.25	127	275466	12.22	ng	98
34) Hexachlorobutadiene	8.31	225	289836	31.41	ng	99
35) Caprolactam	8.62	113	171006m	43.45	ng	
36) 4-Chloro-3-methylphenol	8.74	107	621428	38.20	ng	92
37) 2-Methylnaphthalene	8.89	142	1240160	35.81	ng	99
39) 1,2,4,5-Tetrachlorobenzene	9.06	216	579955	34.28	ng	99
40) Hexachlorocyclopentadiene	9.05	237	577676	69.90	ng	99

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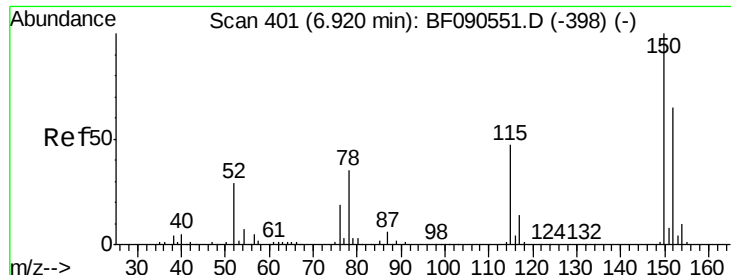
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 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF101316.M
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) 2,4,6-Trichlorophenol	9.17	196	399100	41.82	nq	98
43) 2,4,5-Trichlorophenol	9.22	196	383373	33.68	nq	97
45) 1,1'-Biphenyl	9.35	154	1549876	31.92	nq	98
46) 2-Chloronaphthalene	9.38	162	1188531	32.83	nq	99
47) 2-Nitroaniline	9.48	65	487918	37.18	nq	99
48) Acenaphthylene	9.80	152	2007284	34.82	nq	99
49) Dimethylphthalate	9.66	163	1561066	37.71	nq	# 99
50) 2,6-Dinitrotoluene	9.72	165	326335	36.03	nq	# 80
51) Acenaphthene	9.97	154	1418971	37.03	nq	100
52) 3-Nitroaniline	9.89	138	185691	16.34	nq	97
53) 2,4-Dinitrophenol	9.99	184	316726	65.51	nq	# 70
54) Dibenzofuran	10.14	168	1803274	35.78	nq	97
55) 4-Nitrophenol	10.06	139	485556	70.98	nq	90
56) 2,4-Dinitrotoluene	10.13	165	460583	37.43	nq	# 81
57) Fluorene	10.49	166	1407685	33.86	nq	100
58) 2,3,4,6-Tetrachlorophenol	10.26	232	344072	36.29	nq	94
59) Diethylphthalate	10.36	149	1475155	35.14	nq	96
60) 4-Chlorophenyl-phenylether	10.47	204	657365	33.54	nq	98
61) 4-Nitroaniline	10.51	138	322713	28.31	nq	95
62) Azobenzene	10.63	77	1520743	31.31	nq	99
64) 4,6-Dinitro-2-methylphenol	10.53	198	211863	33.22	nq	73
65) n-Nitrosodiphenylamine	10.60	169	1217207	34.97	nq	99
66) 4-Bromophenyl-phenylether	10.97	248	411924	36.43	nq	97
67) Hexachlorobenzene	11.03	284	485155	39.52	nq	# 69
68) Atrazine	11.13	200	360815	37.48	nq	97
69) Pentachlorophenol	11.23	266	525735	86.40	nq	97
70) Phenanthrene	11.45	178	1877072	33.37	nq	99
71) Anthracene	11.50	178	2120382	35.02	nq	99
72) Carbazole	11.65	167	1774800	32.75	nq	99
73) Di-n-butylphthalate	11.98	149	2235803	35.21	nq	# 98
74) Fluoranthene	12.64	202	2061528	36.43	nq	97
76) Benzidine	12.76	184	526059	23.34	nq	96
77) Pyrene	12.86	202	1976026	32.94	nq	99
79) Butylbenzylphthalate	13.48	149	960939	36.15	nq	92
80) Benzo(a)anthracene	14.05	228	1840927	35.70	nq	100
81) 3,3'-Dichlorobenzidine	14.02	252	413432	23.47	nq	99
82) Chrysene	14.10	228	1869046	37.62	nq	99
83) Bis(2-ethylhexyl)phthalate	14.04	149	1358834	37.89	nq	# 99
84) Di-n-octyl phthalate	14.66	149	2378127	49.46	nq	99
85) Indeno(1,2,3-cd)pyrene	16.96	276	1261466	43.91	nq	99
87) Benzo(b)fluoranthene	15.09	252	1842415m	43.18	nq	
88) Benzo(k)fluoranthene	15.13	252	1246040m	27.14	nq	
89) Benzo(a)pyrene	15.46	252	1399537	35.83	nq	# 96
90) Dibenzo(a,h)anthracene	16.97	278	1071668	35.97	nq	99
91) Benzo(g,h,i)perylene	17.38	276	1002315	35.28	nq	97

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



#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.89 min Scan# 398

Delta R.T. 0.00 min

Lab File: BF090647.D

Acq: 19 Oct 2016 15:04

Instrument :

BNA_F

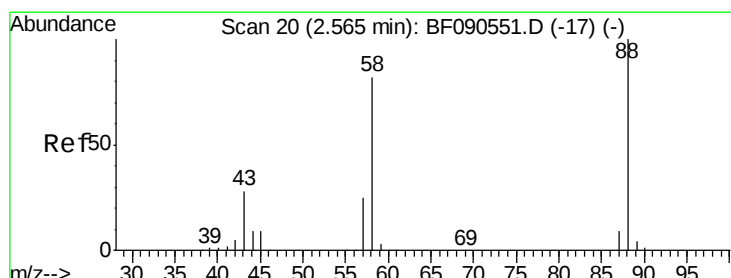
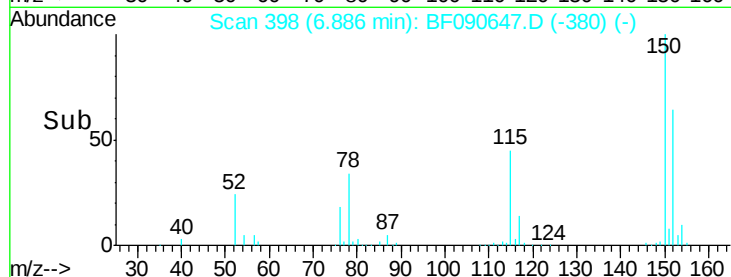
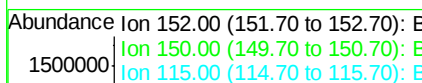
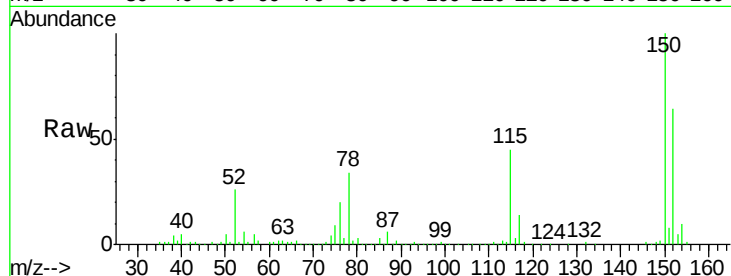
ClientSampleId :

SOIL-CUTTINGSMS

Tot Ion:	152	Resp:	248317
Ion Ratio	Lower	Upper	
152	100		
150	155.3	127.2	190.8
115	70.4	58.6	88.0

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#2

1,4-Dioxane

Concen: 30.38 ng m

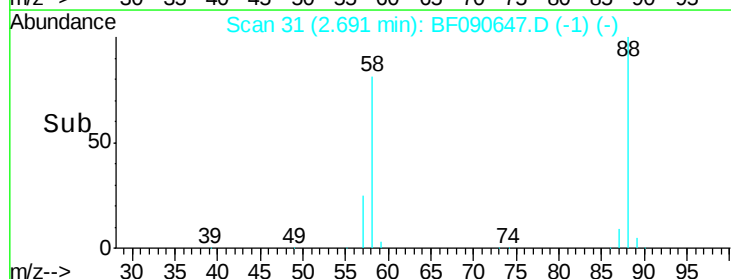
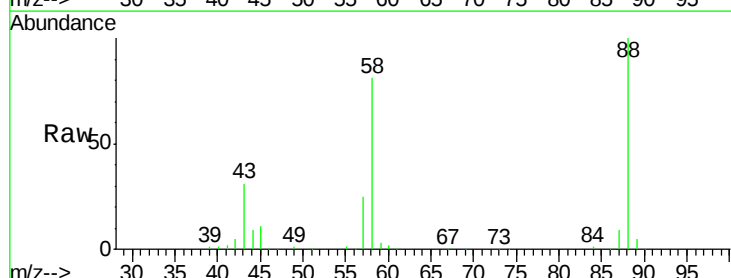
RT: 2.69 min Scan# 31

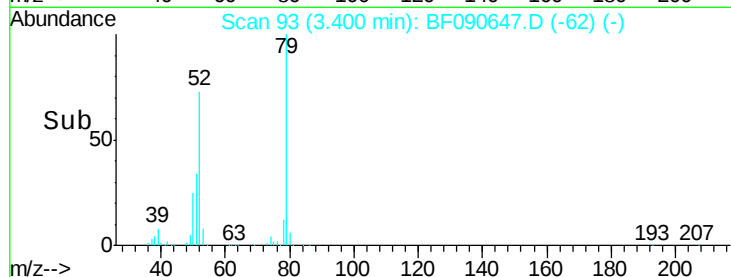
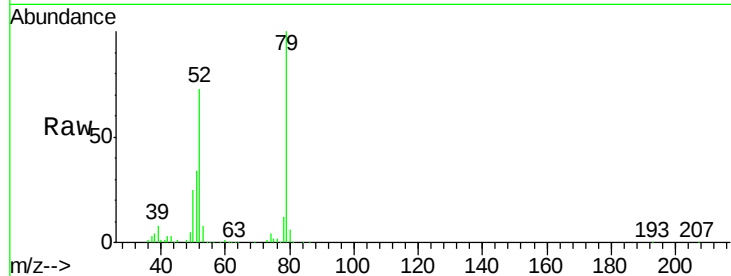
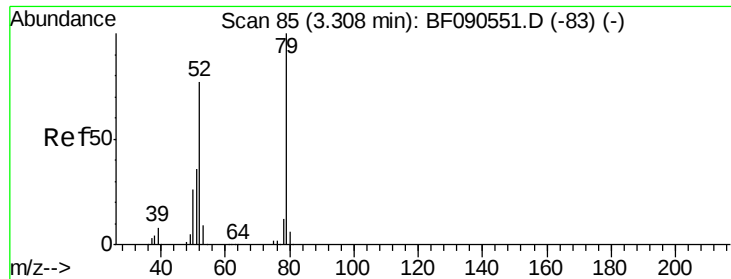
Delta R.T. 0.17 min

Lab File: BF090647.D

Acq: 19 Oct 2016 15:04

Tgt Ion:	88	Resp:	234513
Ion Ratio	Lower	Upper	
88	100		
58	0.0	67.2	100.8#
43	0.0	24.1	36.1#





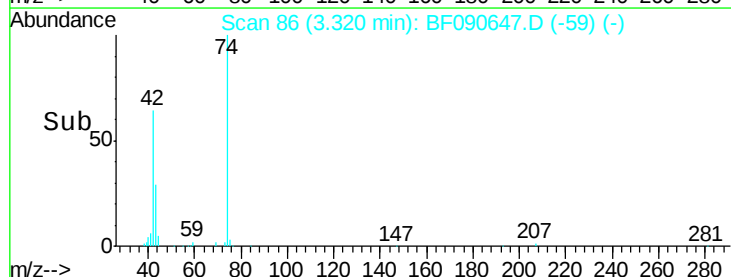
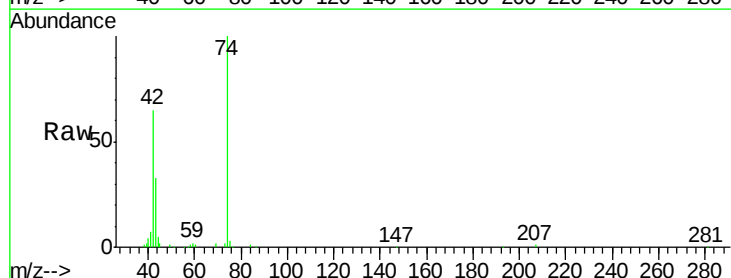
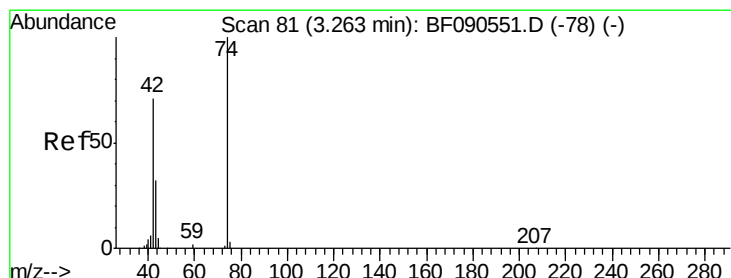
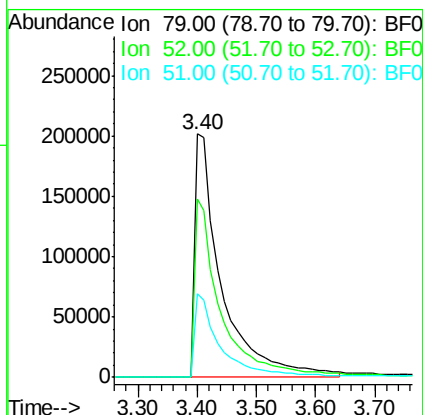
#3
 Pvridine
 Concen: 37.39 ng m
 RT: 3.40 min Scan# 93
 Delta R.T. 0.15 min
 Lab File: BF090647.D
 Acq: 19 Oct 2016 15:04

Tot Ion	Ion	Ratio	Resp	Lower	Upper
79	79	100	647013		
52	52	73.3		61.8	92.8
51	51	34.2		29.2	43.8

Instrument :
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 SOIL-CUTTINGSMS

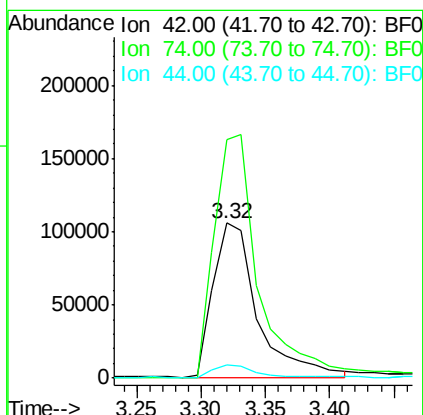
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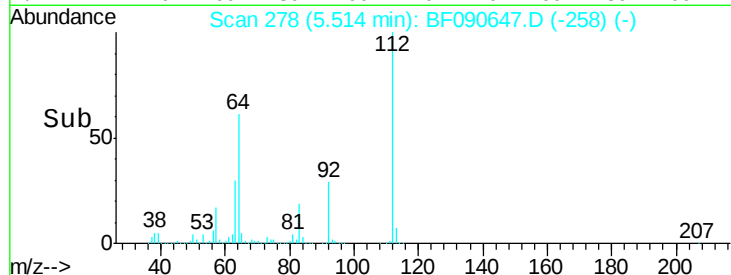
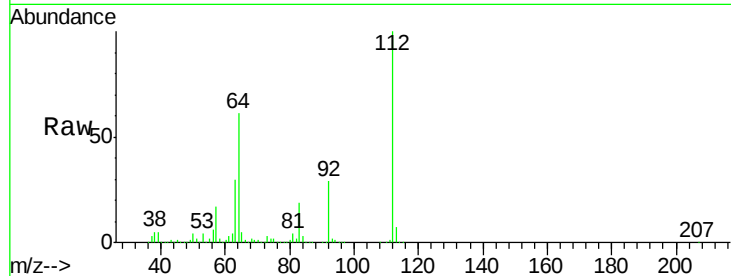
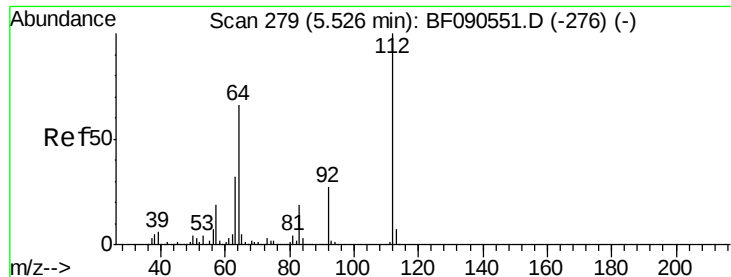
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#4
 n-Nitrosodimethylamine
 Concen: 42.58 ng m
 RT: 3.32 min Scan# 86
 Delta R.T. 0.10 min
 Lab File: BF090647.D
 Acq: 19 Oct 2016 15:04

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
42	42	100	257846		
74	74	154.4		113.3	169.9
44	44	8.3		6.0	9.0





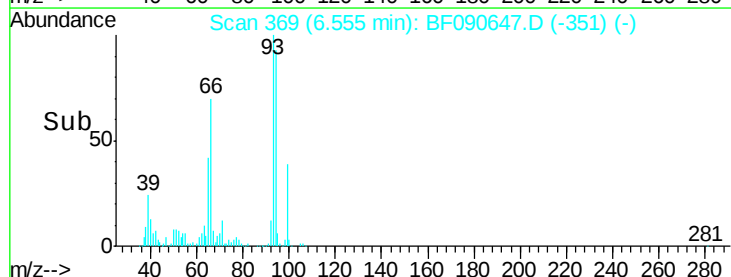
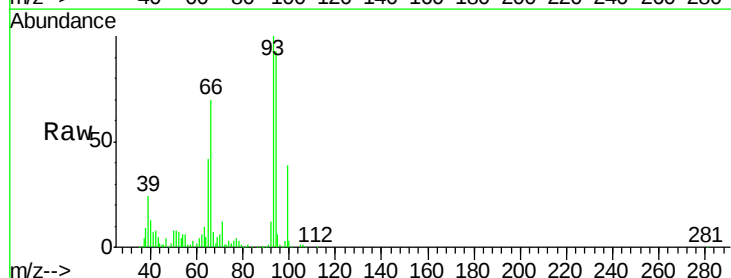
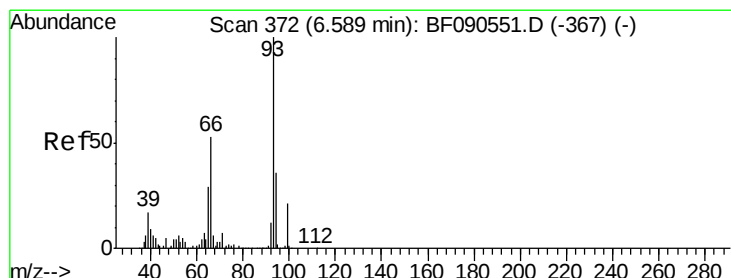
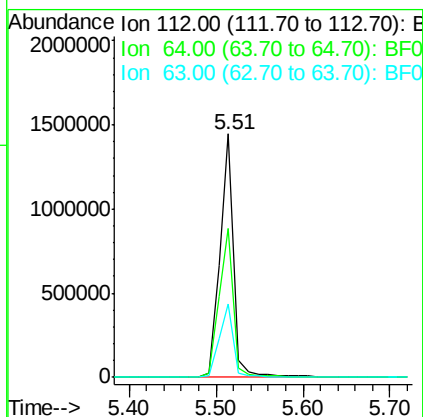
#5
2-Fluorophenol
Concen: 119.37 ng
RT: 5.51 min Scan# 278
Delta R.T. 0.02 min
Lab File: BF090647.D
Acq: 19 Oct 2016 15:04

Tot Ion	Ratio	Lower	Upper
112	100		
64	60.9	52.6	78.8
63	30.3	26.0	39.0

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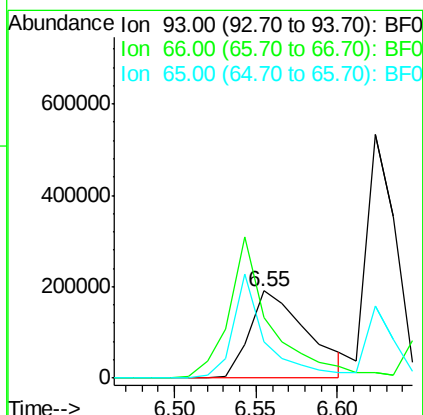
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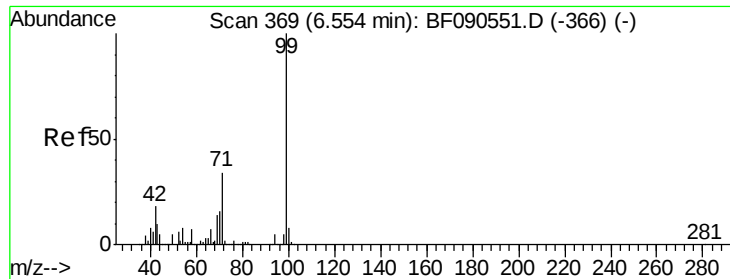
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#6
Aniline
Concen: 19.09 ng
RT: 6.55 min Scan# 369
Delta R.T. 0.00 min
Lab File: BF090647.D
Acq: 19 Oct 2016 15:04

Tgt Ion	Ratio	Lower	Upper
93	100		
66	69.8	42.2	63.2#
65	41.9	22.9	34.3#





#7

Phenol-d6

Concen: 98.79 ng

RT: 6.53 min Scan# 367

Delta R.T. 0.00 min

Lab File: BF090647.D

Acq: 19 Oct 2016 15:04

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGSMS

Tot Ion: 99 Resp: 1988290

Ion Ratio Lower Upper

99 100

42 16.3 14.7 22.1

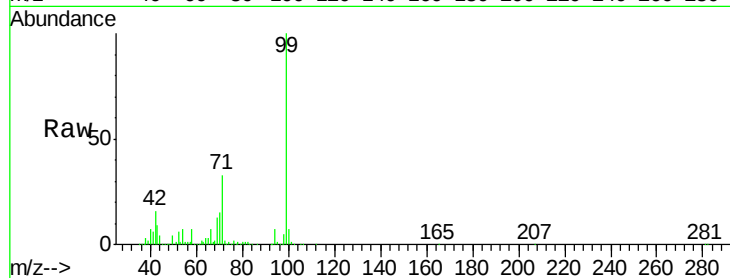
71 33.2 27.6 41.4

Manual Integrations

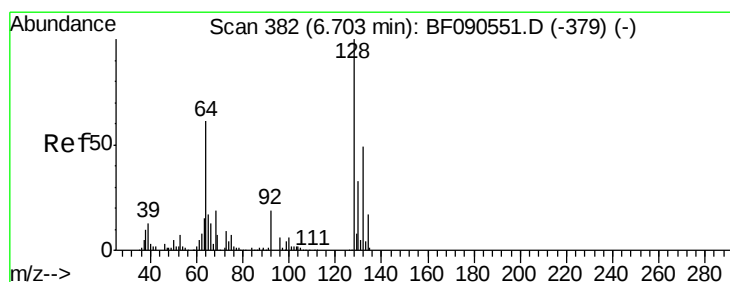
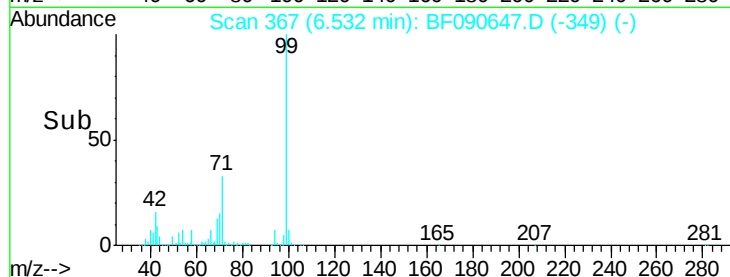
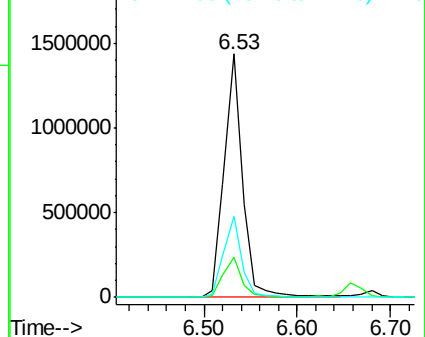
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Abundance Ion 99.00 (98.70 to 99.70): BF0
Ion 42.00 (41.70 to 42.70): BF0
Ion 71.00 (70.70 to 71.70): BF0



#8

2-Chlorophenol

Concen: 39.37 ng

RT: 6.68 min Scan# 380

Delta R.T. 0.00 min

Lab File: BF090647.D

Acq: 19 Oct 2016 15:04

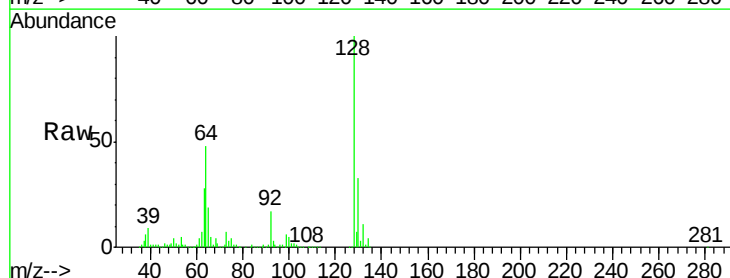
Tgt Ion: 128 Resp: 691530

Ion Ratio Lower Upper

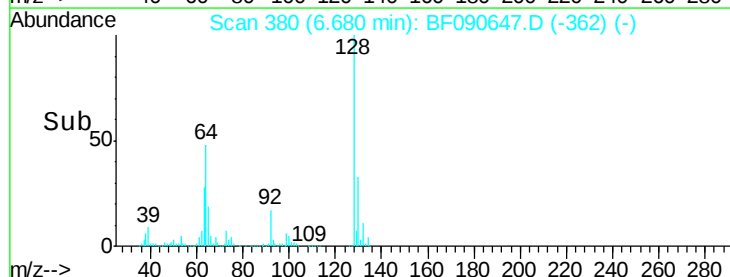
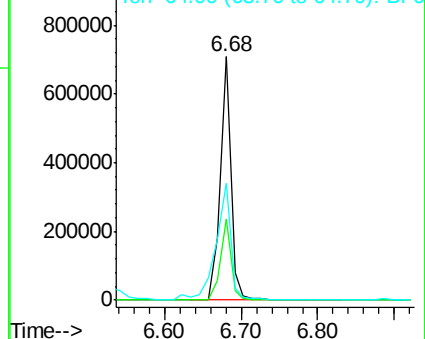
128 100

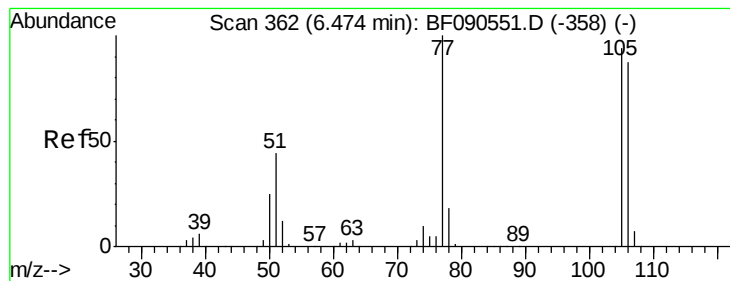
130 33.3 12.6 52.6

64 48.2 42.6 82.6



Abundance Ion 128.00 (127.70 to 128.70): E
Ion 130.00 (129.70 to 130.70): E
Ion 64.00 (63.70 to 64.70): BF0





#9

Benzaldehyde

Concen: 6.64 ng

RT: 6.44 min Scan# 359

Delta R.T. 0.00 min

Lab File: BF090647.D

Acq: 19 Oct 2016 15:04

Instrument :

BNA_F

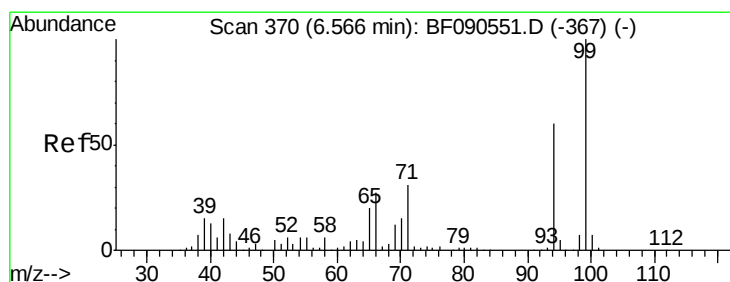
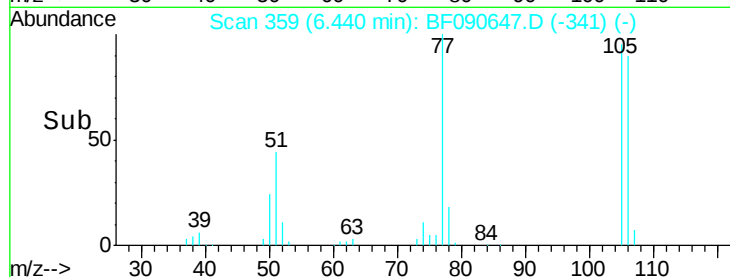
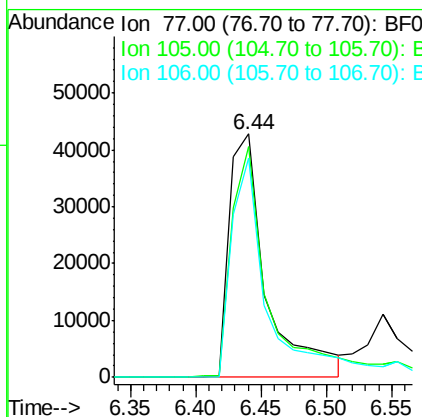
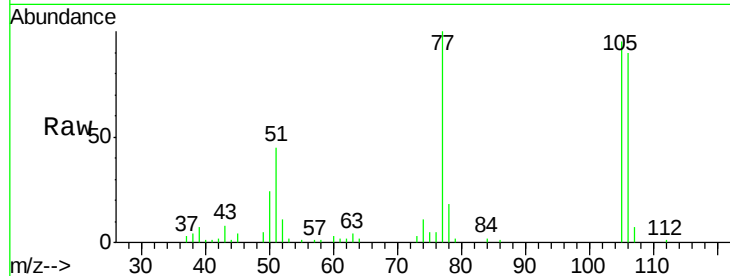
ClientSampleId :

SOIL-CUTTINGSMS

Tot Ion:	77	Resp:	84939
Ion	Ratio	Lower	Upper
77	100		
105	94.8	74.3	114.3
106	89.9	67.2	107.2

Manual Integrations
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#10

Phenol

Concen: 32.52 ng

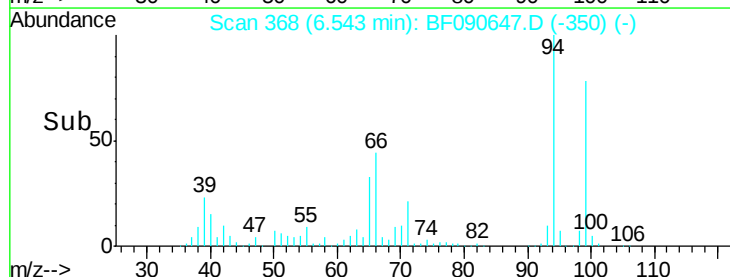
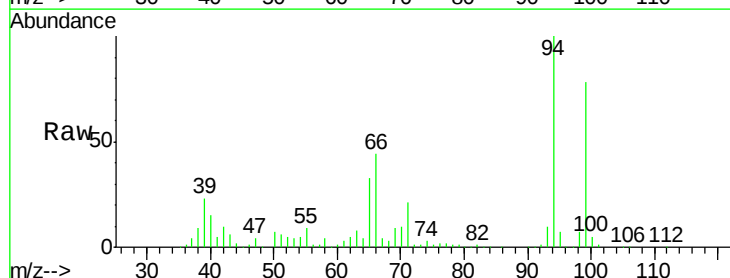
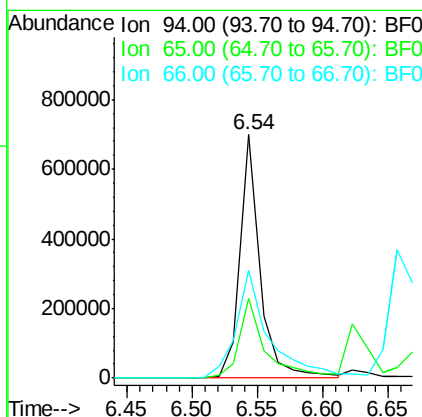
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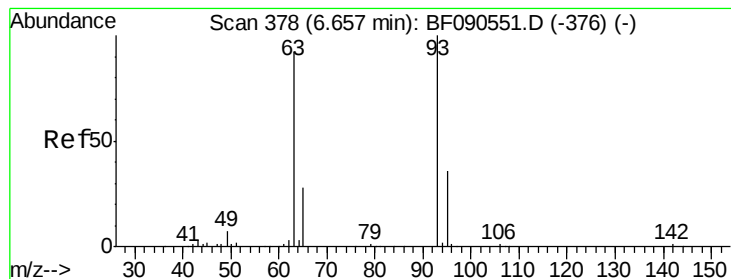
Delta R.T. 0.00 min

Lab File: BF090647.D

Acq: 19 Oct 2016 15:04

Tgt Ion:	94	Resp:	748575
Ion	Ratio	Lower	Upper
94	100		
65	32.6	12.5	52.5
66	44.2	25.5	65.5





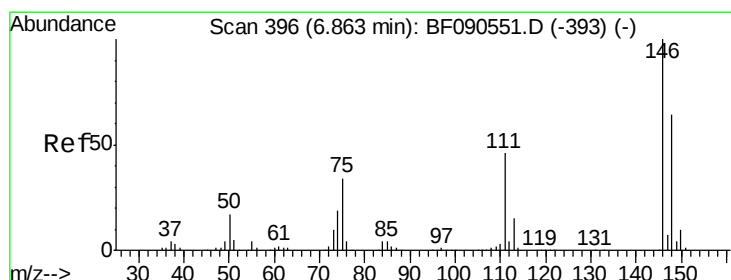
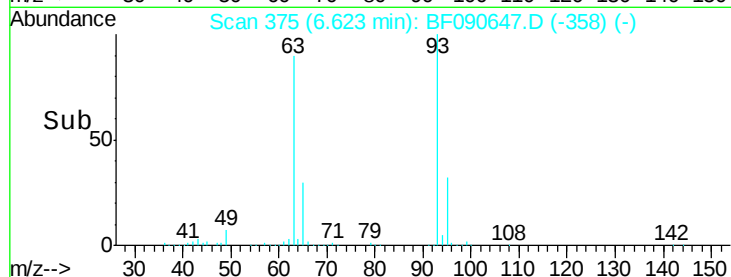
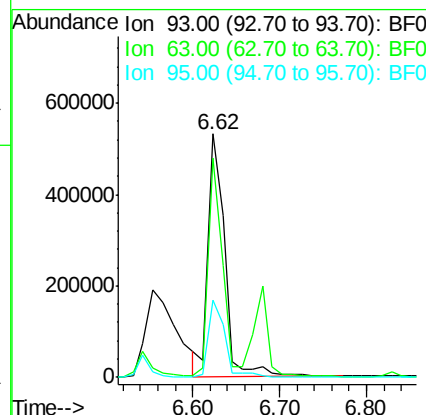
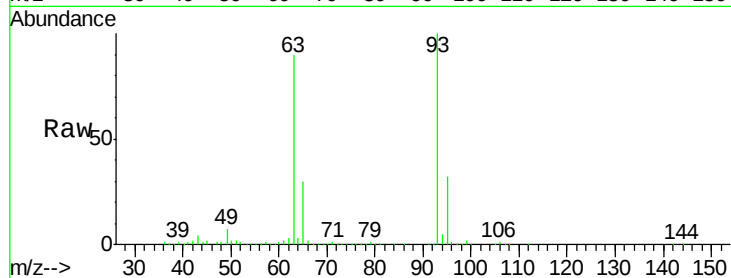
#11
bis(2-Chloroethyl)ether
Concen: 37.11 ng
RT: 6.62 min Scan# 375
Delta R.T. 0.00 min
Lab File: BF090647.D
Acq: 19 Oct 2016 15:04

Instrument :
BNA_F
ClientSampleId :
SOIL-CUTTINGSMS

Tot Ion	Ratio	Lower	Upper
93	100		
63	89.8	61.6	101.6
95	31.9	11.8	51.8

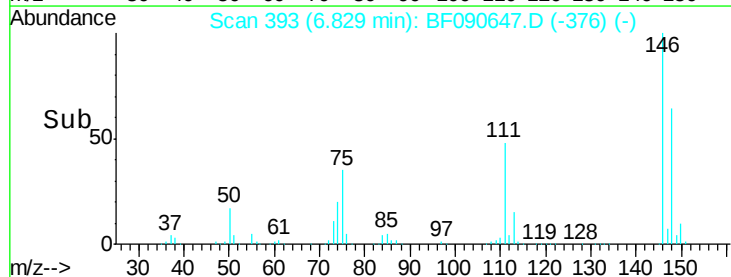
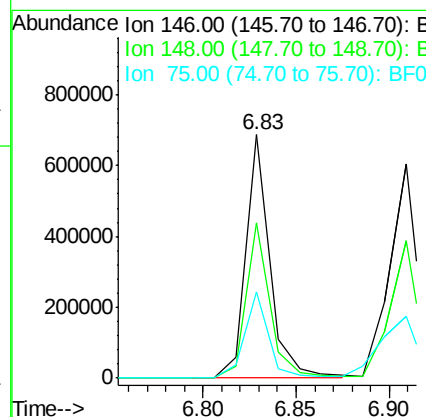
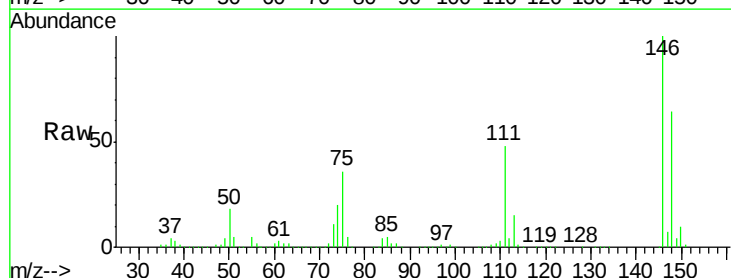
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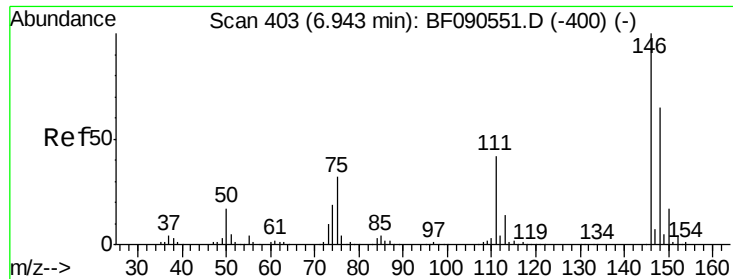
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#12
1,3-Dichlorobenzene
Concen: 35.31 ng
RT: 6.83 min Scan# 393
Delta R.T. 0.00 min
Lab File: BF090647.D
Acq: 19 Oct 2016 15:04

Tgt Ion	Ratio	Lower	Upper
146	100		
148	63.6	51.4	77.2
75	35.5	27.0	40.6





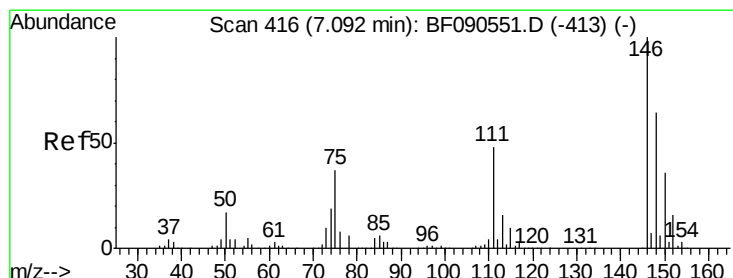
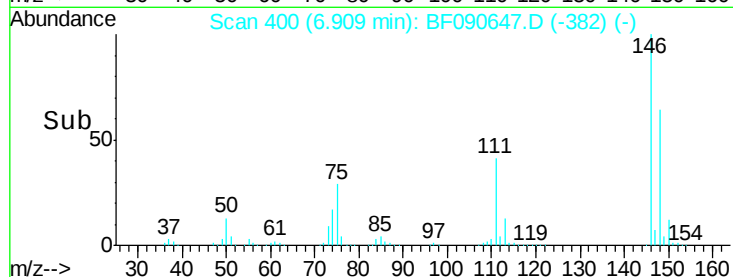
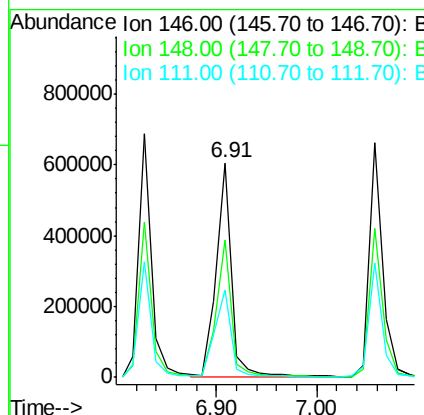
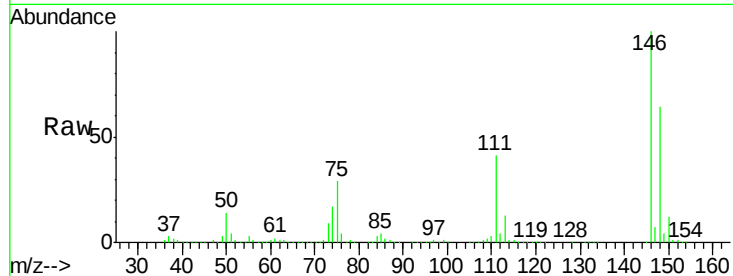
#13
 1,4-Dichlorobenzene
 Concen: 33.59 ng
 RT: 6.91 min Scan# 400
 Delta R.T. 0.00 min
 Lab File: BF090647.D
 Acq: 19 Oct 2016 15:04

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CUTTINGSMS

Tot Ion	Ratio	Lower	Upper
146	100		
148	64.1	51.9	77.9
111	40.9	33.7	50.5

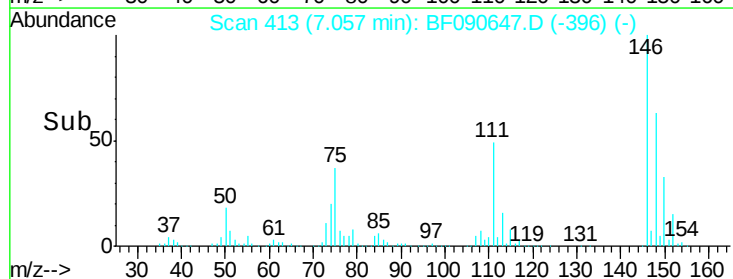
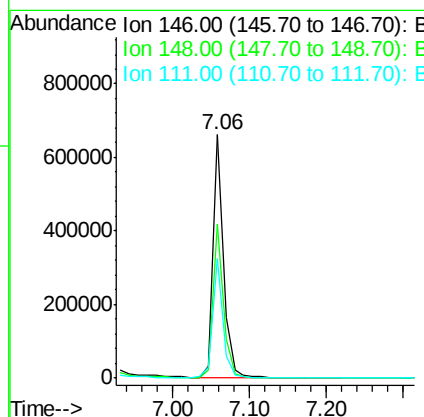
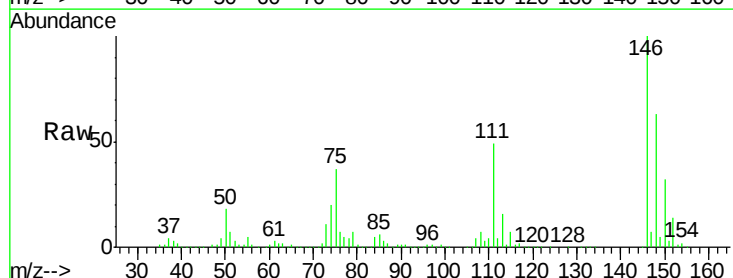
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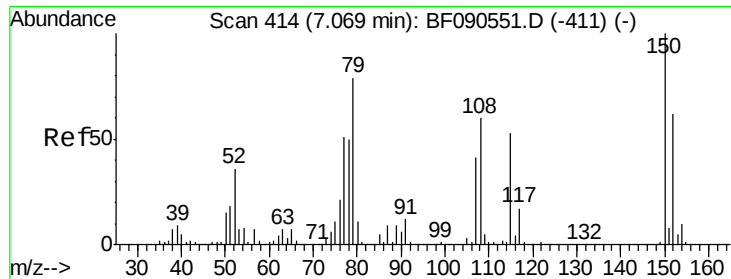
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#14
 1,2-Dichlorobenzene
 Concen: 34.23 ng
 RT: 7.06 min Scan# 413
 Delta R.T. -0.01 min
 Lab File: BF090647.D
 Acq: 19 Oct 2016 15:04

Tgt Ion	Ratio	Lower	Upper
146	100		
148	63.4	51.2	76.8
111	48.9	38.2	57.2





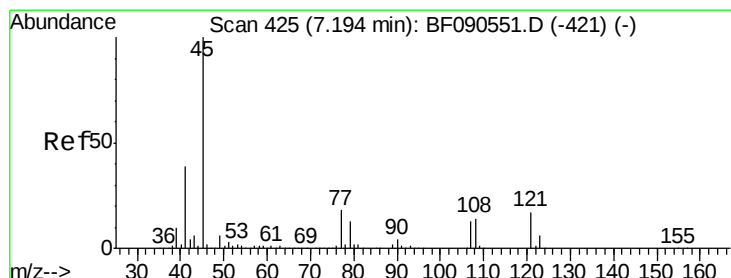
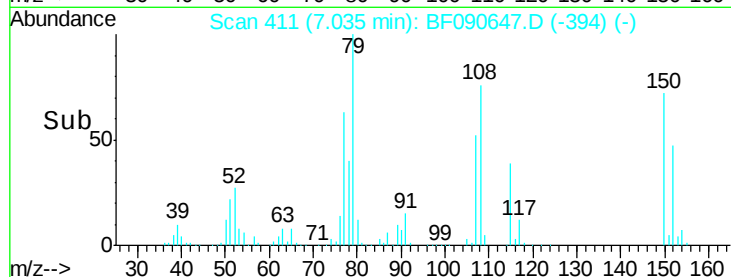
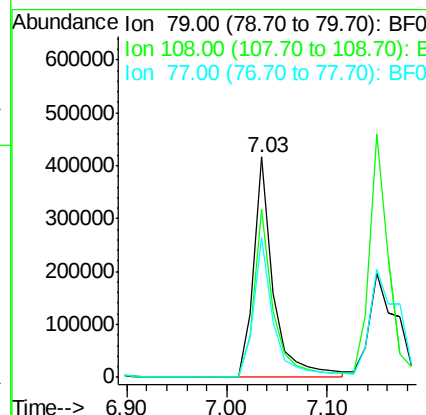
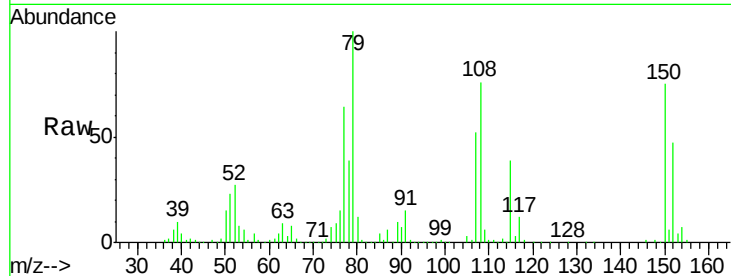
#15
Benzyl Alcohol
Concen: 41.91 ng
RT: 7.03 min Scan# 411
Delta R.T. 0.00 min
Lab File: BF090647.D
Acq: 19 Oct 2016 15:04

Instrument :
BNA_F
ClientSampleId :
SOIL-CUTTINGSMS

Tot Ion	Ratio	Lower	Upper
79	100		
108	76.5	60.2	90.4
77	63.6	52.0	78.0

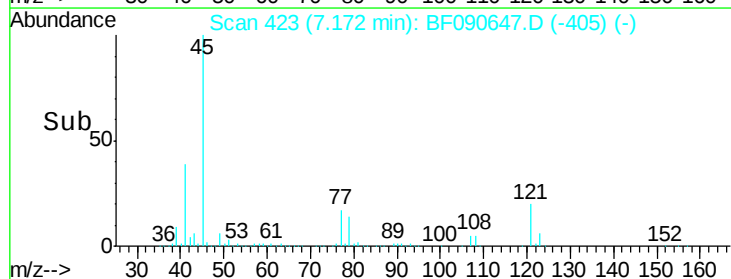
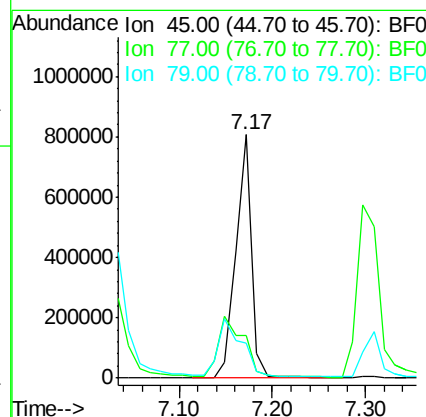
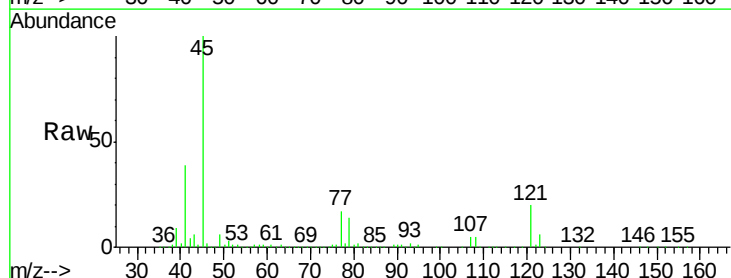
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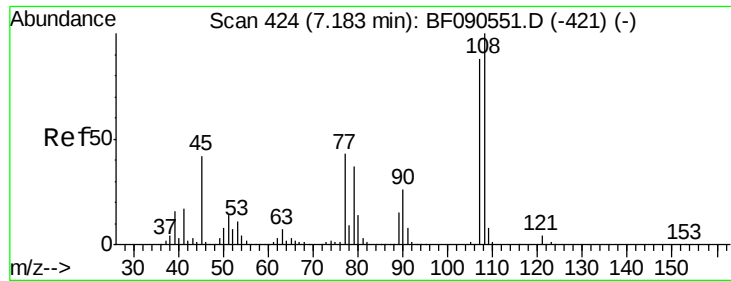
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#16
2,2'-oxybis(1-Chloropropane)
Concen: 35.25 ng
RT: 7.17 min Scan# 423
Delta R.T. 0.00 min
Lab File: BF090647.D
Acq: 19 Oct 2016 15:04

Tgt Ion	Ratio	Lower	Upper
45	100		
77	17.3	0.9	40.9
79	14.3	0.0	37.3





#17

2-Methylphenol

Concen: 39.37 ng

RT: 7.15 min Scan# 421

Delta R.T. 0.00 min

Lab File: BF090647.D

Acq: 19 Oct 2016 15:04

Instrument :

BNA_F

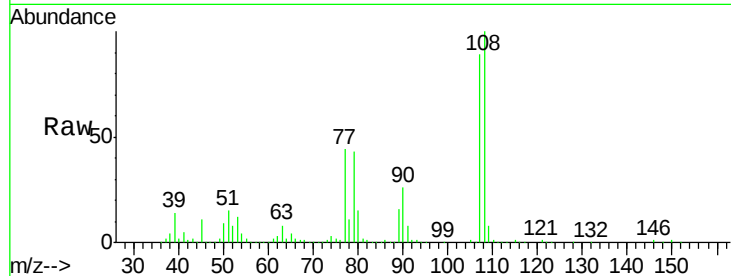
ClientSampleId :

SOIL-CUTTINGSMS

Tot Ion:	107	Resp:	538860
Ion Ratio	Lower	Upper	
107	100		
108	113.0	92.6	138.8
77	50.0	42.2	63.2
79	48.4	40.7	61.1

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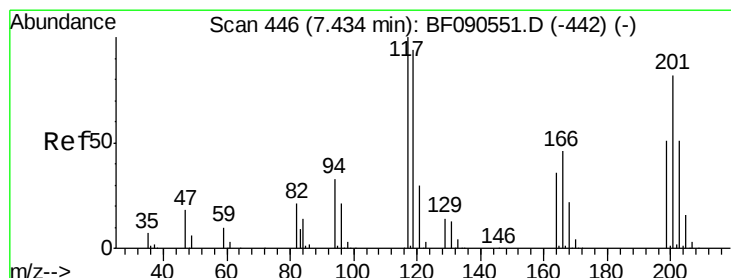
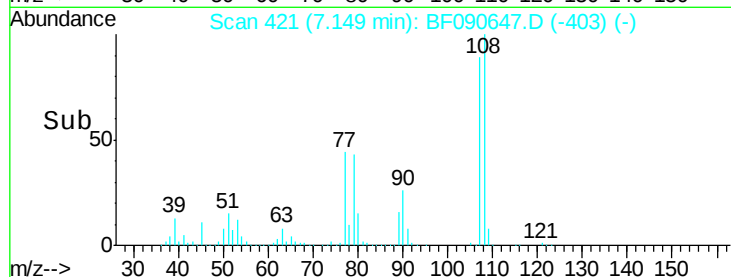
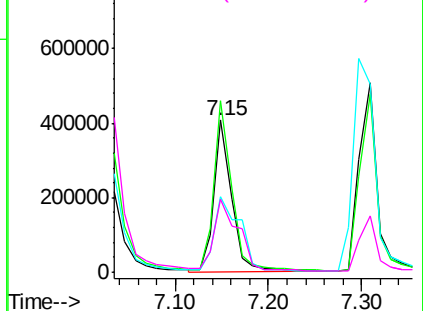
Abundance

Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BF0

Ion 79.00 (78.70 to 79.70): BF0



#18

Hexachloroethane

Concen: 32.98 ng

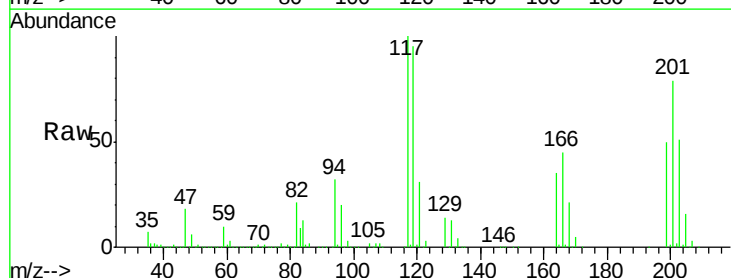
RT: 7.40 min Scan# 443

Delta R.T. 0.00 min

Lab File: BF090647.D

Acq: 19 Oct 2016 15:04

Tgt Ion:	117	Resp:	248316
Ion Ratio	Lower	Upper	
117	100		
119	94.6	75.6	113.4
201	78.7	65.4	98.0

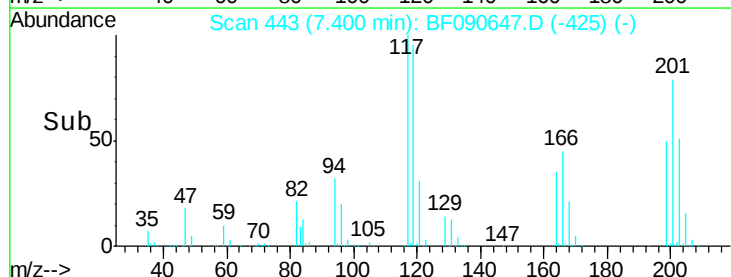
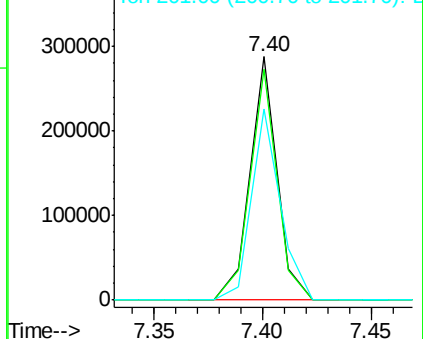


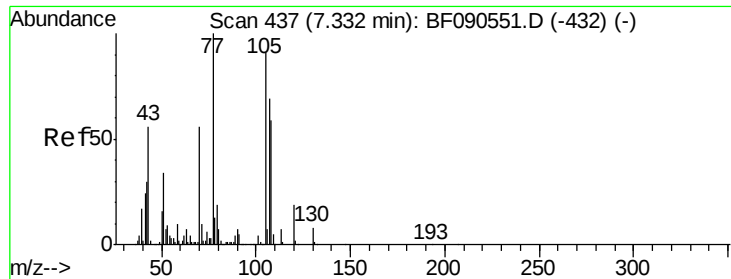
Abundance

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





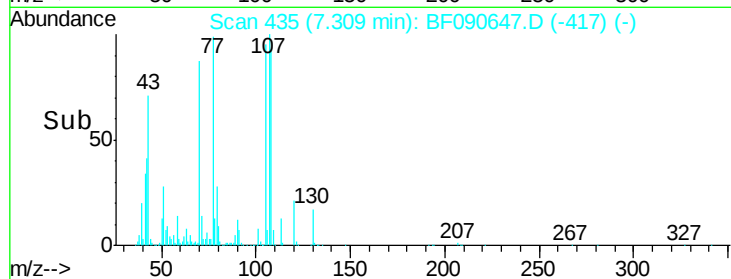
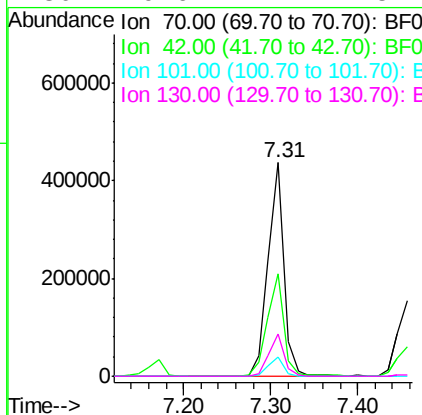
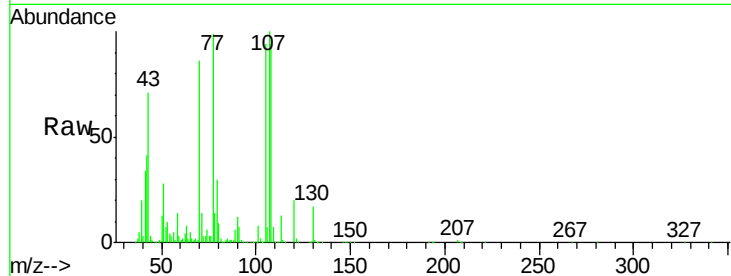
#19
n-Nitroso-di-n-propylamine
Concen: 40.15 ng
RT: 7.31 min Scan# 435
Delta R.T. 0.00 min
Lab File: BF090647.D
Acq: 19 Oct 2016 15:04

Instrument :
BNA_F
ClientSampleId :
SOIL-CUTTINGSMS

Tot Ion	Ratio	Lower	Upper
70	100		
42	47.8	43.4	65.0
101	9.2	6.4	9.6
130	19.6	12.1	18.1#

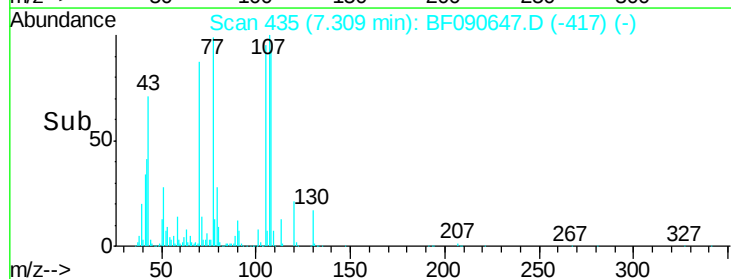
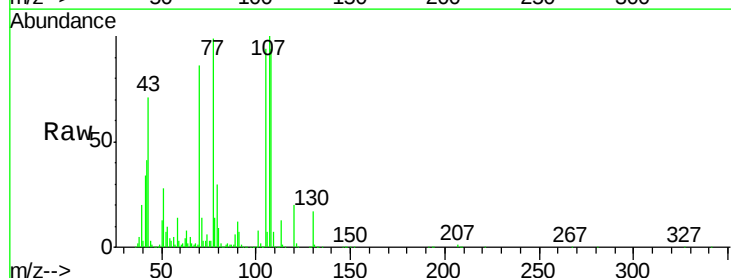
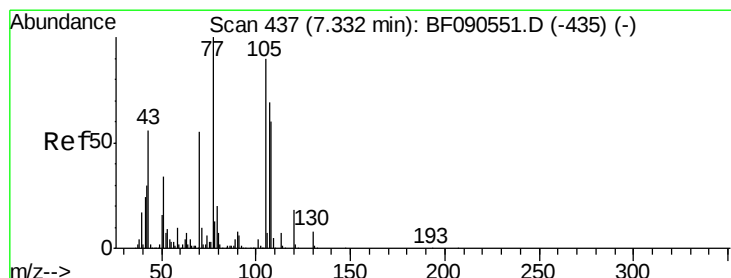
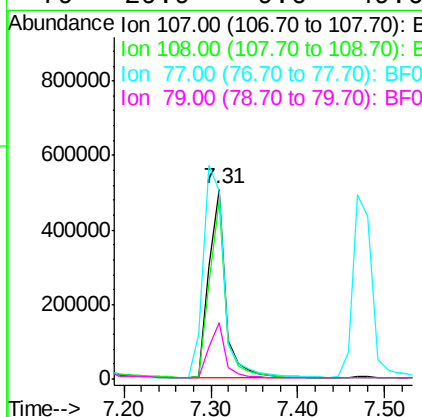
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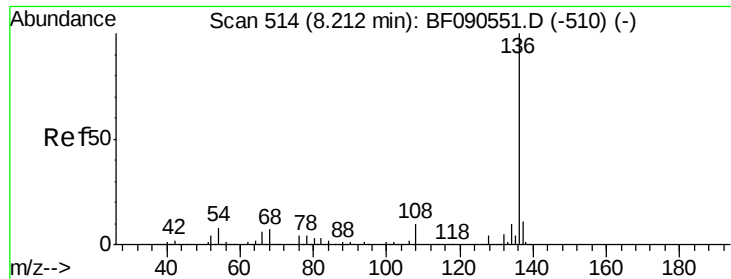
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#20
3+4-Methylphenols
Concen: 41.28 ng
RT: 7.31 min Scan# 435
Delta R.T. 0.00 min
Lab File: BF090647.D
Acq: 19 Oct 2016 15:04

Tgt Ion	Ratio	Lower	Upper
107	100		
108	93.6	67.7	107.7
77	98.8	123.1	163.1#
79	29.9	9.6	49.6





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.18 min Scan# 511

Delta R.T. 0.00 min

Lab File: BF090647.D

Acq: 19 Oct 2016 15:04

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGSMS

Tot Ion:136 Resp: 1157433

Ion Ratio Lower Upper

136 100

137 11.1 8.8 13.2

54 8.4 6.8 10.2

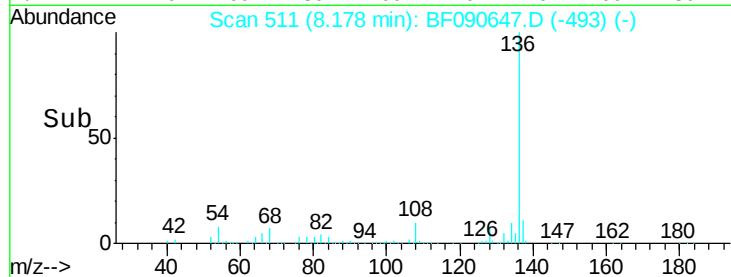
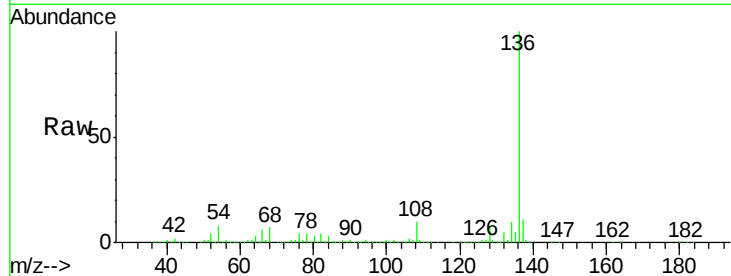
68 7.5 6.0 9.0

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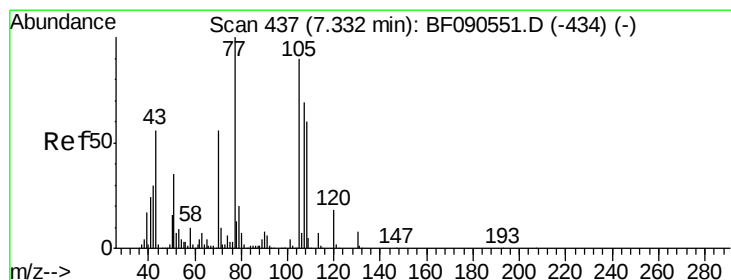
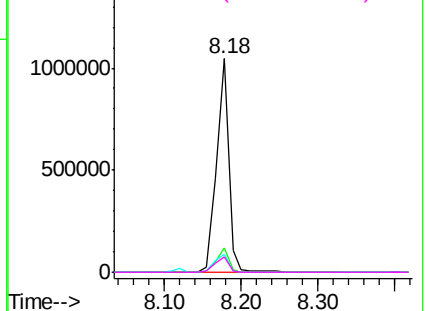


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



#22

Acetophenone

Concen: 37.02 ng

RT: 7.30 min Scan# 434

Delta R.T. -0.01 min

Lab File: BF090647.D

Acq: 19 Oct 2016 15:04

Tgt Ion:105 Resp: 946696

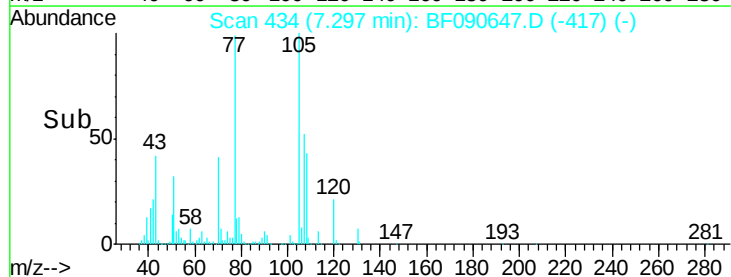
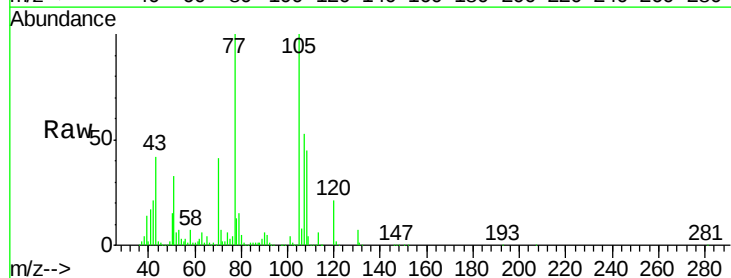
Ion Ratio Lower Upper

105 100

71 7.0 8.5 12.7#

51 32.6 31.0 46.4

120 20.7 16.2 24.4

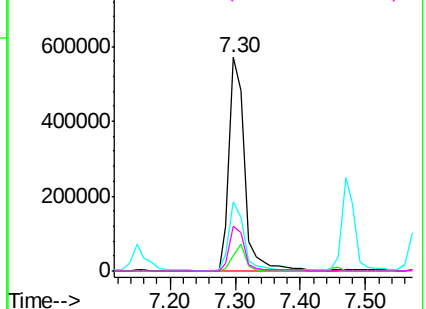


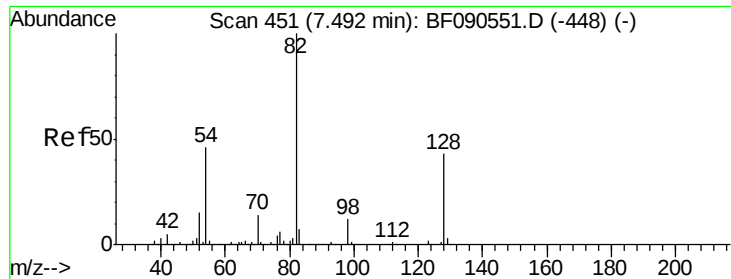
Abundance Ion 105.00 (104.70 to 105.70): E

Ion 71.00 (70.70 to 71.70): BF0

Ion 51.00 (50.70 to 51.70): BF0

Ion 120.00 (119.70 to 120.70): E





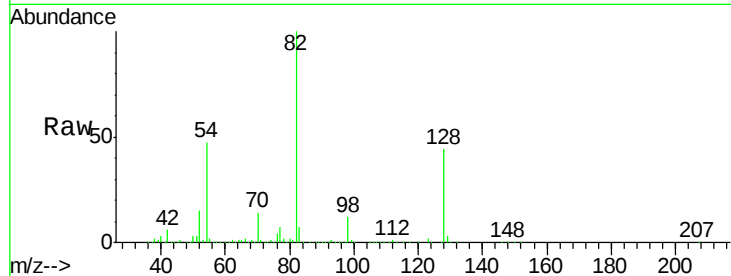
#23
 Nitrobenzene-d5
 Concen: 69.03 ng
 RT: 7.46 min Scan# 448
 Delta R.T. 0.00 min
 Lab File: BF090647.D
 Acq: 19 Oct 2016 15:04

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CUTTINGSMS

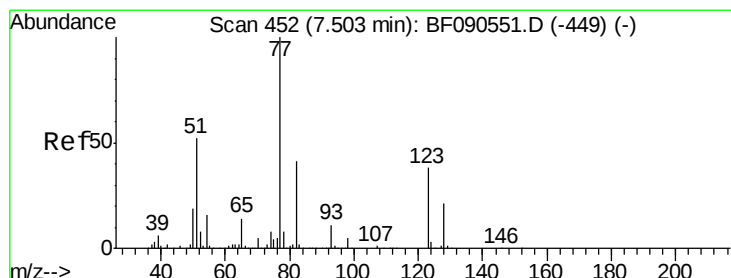
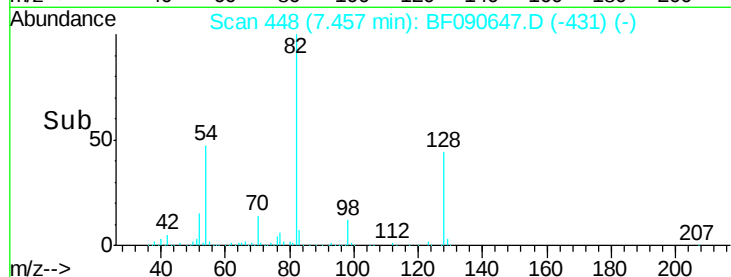
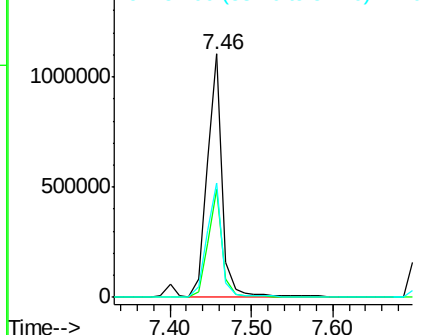
Tot Ion: 82 Resp: 1438264
 Ion Ratio Lower Upper
 82 100
 128 44.3 34.3 51.5
 54 47.1 37.0 55.6

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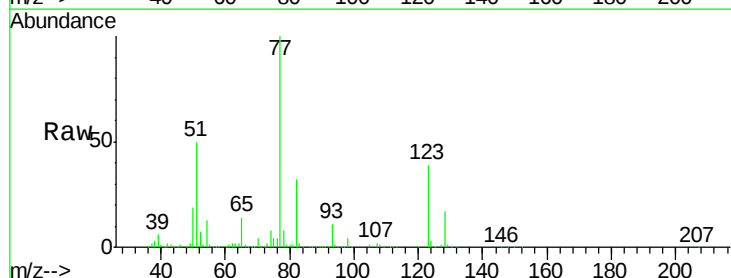


Abundance Ion 82.00 (81.70 to 82.70): BF0
 1500000
 Ion 128.00 (127.70 to 128.70): BF0
 Ion 54.00 (53.70 to 54.70): BF0

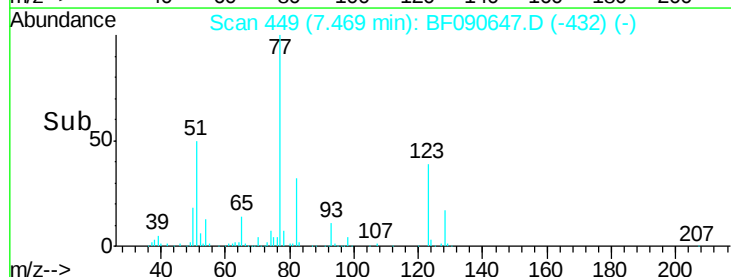
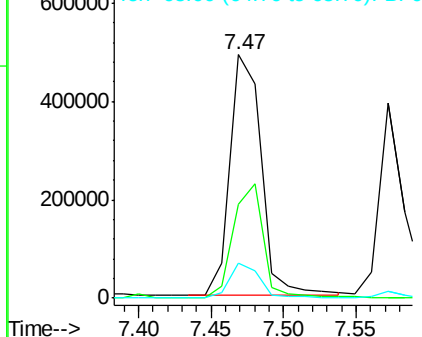


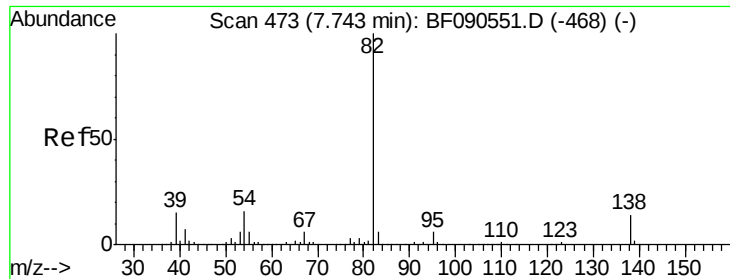
#24
 Nitrobenzene
 Concen: 34.70 ng
 RT: 7.47 min Scan# 449
 Delta R.T. -0.01 min
 Lab File: BF090647.D
 Acq: 19 Oct 2016 15:04

Tgt Ion: 77 Resp: 741922
 Ion Ratio Lower Upper
 77 100
 123 38.8 29.8 44.6
 65 14.2 10.9 16.3



Abundance Ion 77.00 (76.70 to 77.70): BF0
 600000
 Ion 123.00 (122.70 to 123.70): BF0
 Ion 65.00 (64.70 to 65.70): BF0





#25

Isophorone

Concen: 39.08 ng

RT: 7.72 min Scan# 471

Delta R.T. 0.00 min

Lab File: BF090647.D

Acq: 19 Oct 2016 15:04

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGSMS

Tot Ion: 82 Resp: 1482146

Ion Ratio Lower Upper

82 100

95 6.6 5.0 7.6

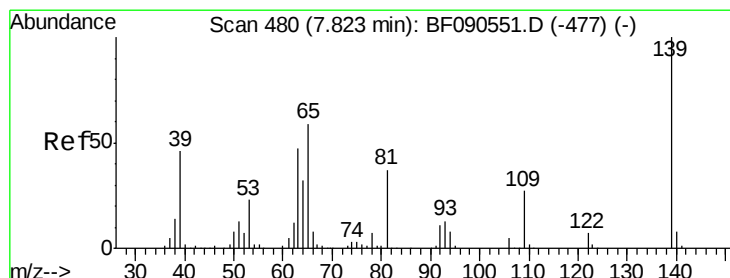
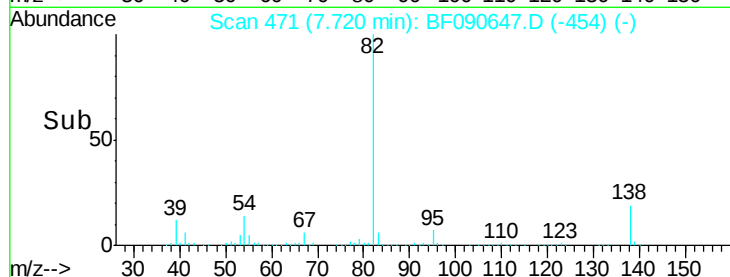
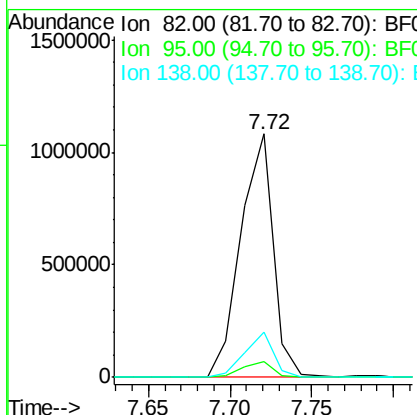
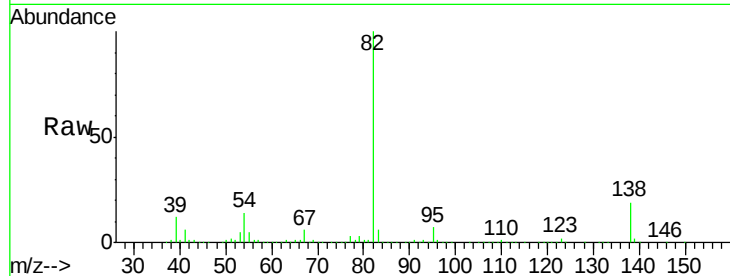
138 18.5 11.5 17.3#

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#26

2-Nitrophenol

Concen: 35.27 ng

RT: 7.79 min Scan# 477

Delta R.T. -0.01 min

Lab File: BF090647.D

Acq: 19 Oct 2016 15:04

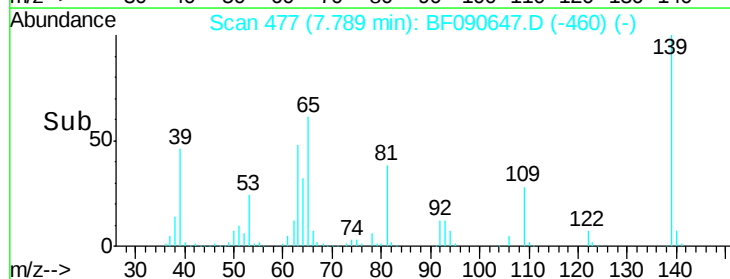
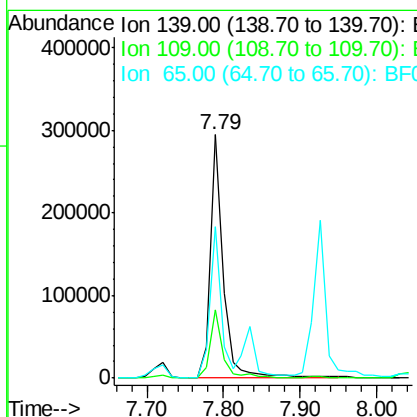
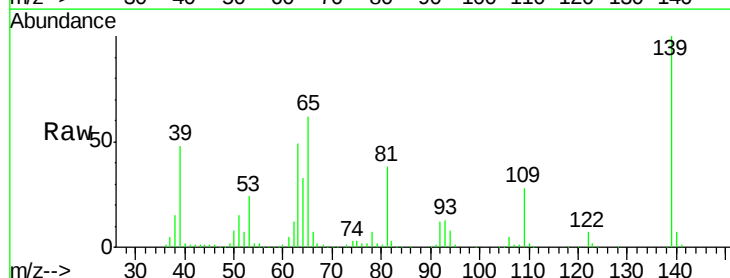
Tgt Ion: 139 Resp: 342194

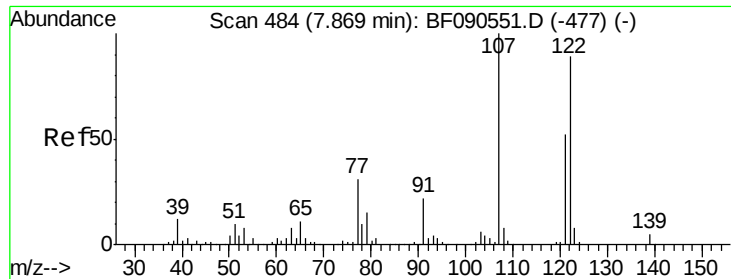
Ion Ratio Lower Upper

139 100

109 27.8 21.8 32.6

65 62.0 47.7 71.5





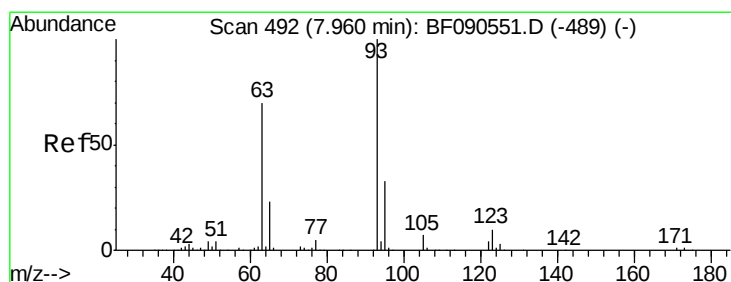
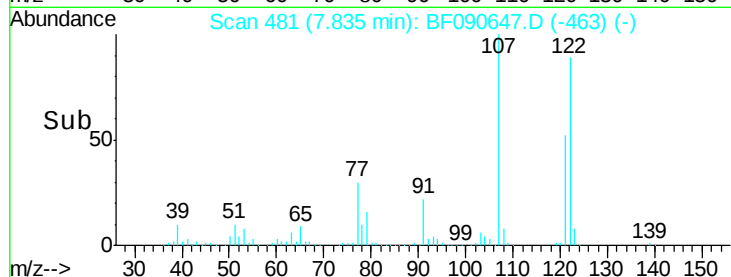
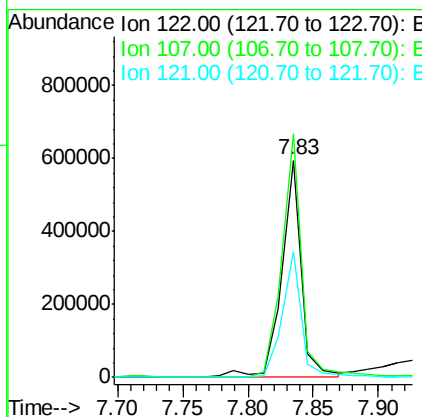
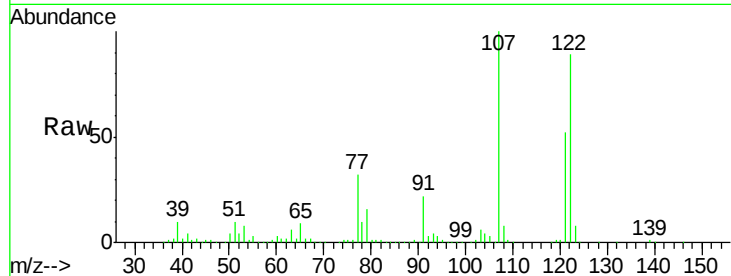
#27
2,4-Dimethylphenol
Concen: 39.28 ng
RT: 7.83 min Scan# 481
Delta R.T. 0.00 min
Lab File: BF090647.D
Acq: 19 Oct 2016 15:04

Instrument :
BNA_F
ClientSampleId :
SOIL-CUTTINGSMS

Tot Ion	Ratio	Resp	Lower	Upper
122	100	632333		
107	112.3	89.8	134.6	
121	57.9	46.1	69.1	

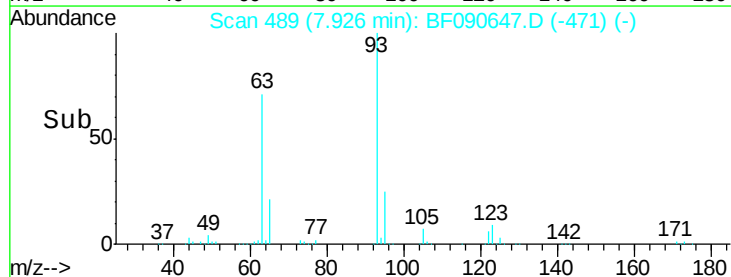
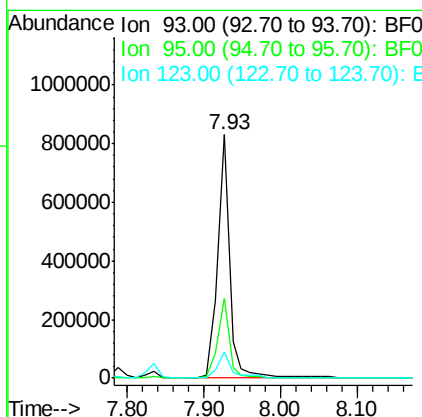
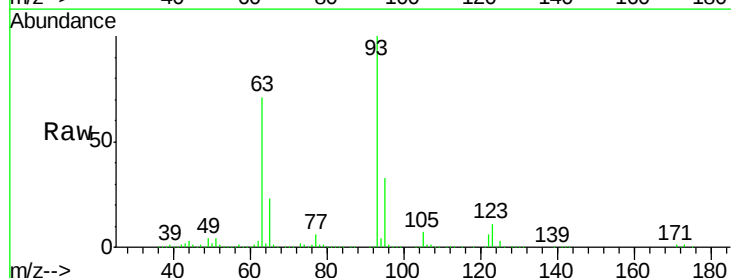
Manual Integrations
APPROVED

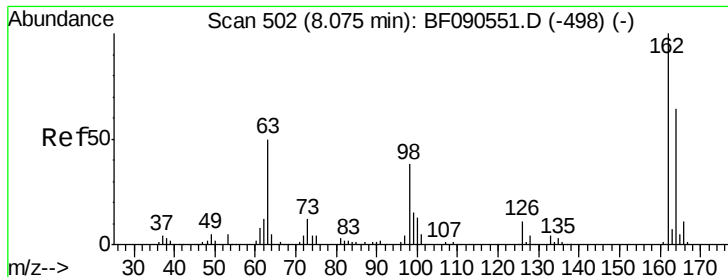
Sohil
10/20/2016 10:36:47 AM



#28
bis(2-Chloroethoxy)methane
Concen: 40.59 ng
RT: 7.93 min Scan# 489
Delta R.T. 0.00 min
Lab File: BF090647.D
Acq: 19 Oct 2016 15:04

Tgt Ion	Ratio	Resp	Lower	Upper
93	100	908887		
95	33.0	26.2	39.2	
123	10.7	8.6	13.0	





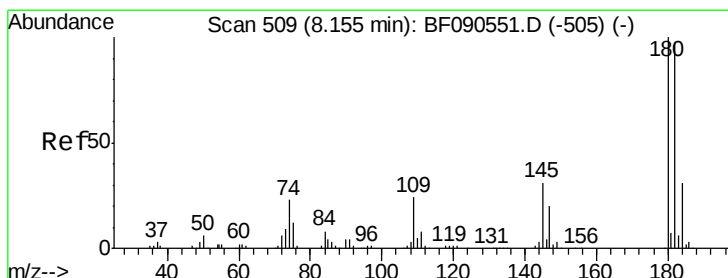
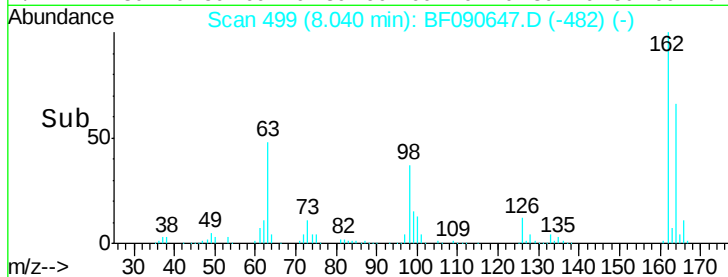
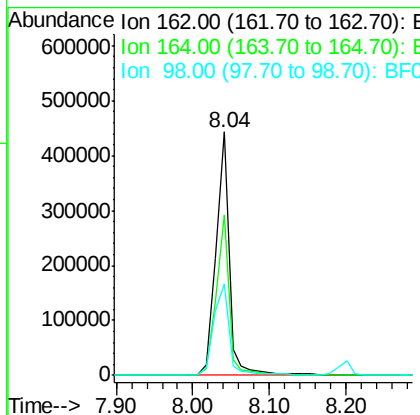
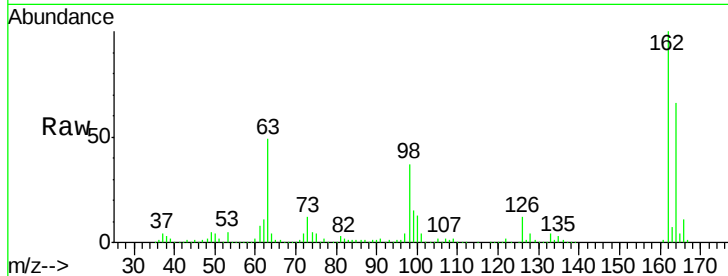
#29
 2,4-Dichlorophenol
 Concen: 37.99 ng
 RT: 8.04 min Scan# 499
 Delta R.T. 0.00 min
 Lab File: BF090647.D
 Acq: 19 Oct 2016 15:04

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CUTTINGSMS

Tot Ion	Ratio	Resp Lower	Resp Upper
162	100		
164	66.0	44.0	84.0
98	37.4	18.0	58.0

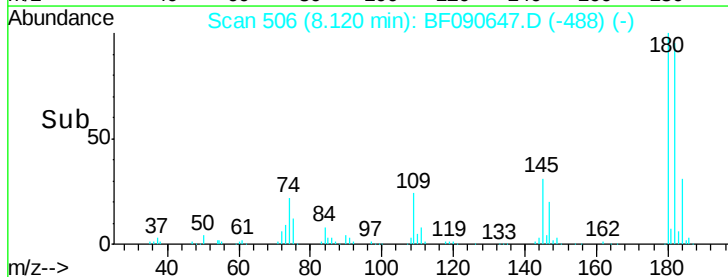
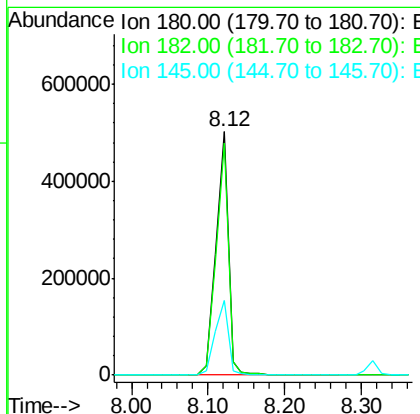
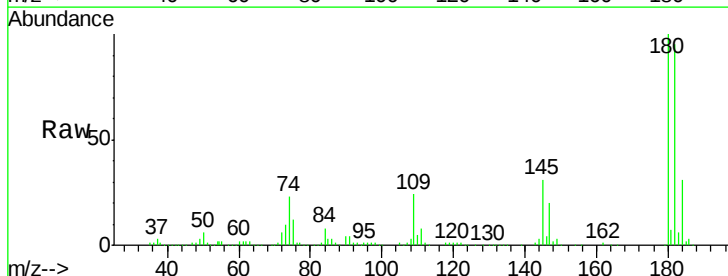
Manual Integrations
 APPROVED

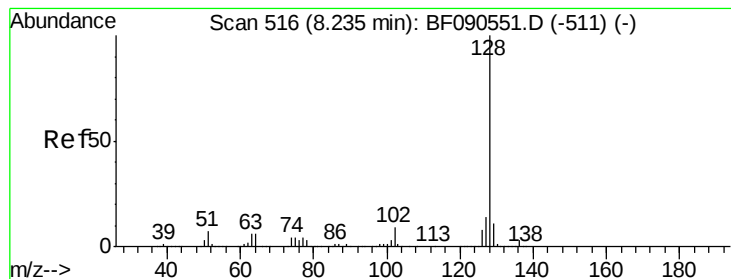
Sohil
 10/20/2016 10:36:47 AM



#30
 1,2,4-Trichlorobenzene
 Concen: 34.25 ng
 RT: 8.12 min Scan# 506
 Delta R.T. 0.00 min
 Lab File: BF090647.D
 Acq: 19 Oct 2016 15:04

Tgt Ion	Ratio	Resp Lower	Resp Upper
180	100		
182	95.2	77.2	115.8
145	30.5	24.4	36.6





#31

Naphthalene

Concen: 35.63 ng

RT: 8.20 min Scan# 513

Delta R.T. 0.00 min

Lab File: BF090647.D

Acq: 19 Oct 2016 15:04

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGSMS

Tot Ion:128 Resp: 2100877

Ion Ratio Lower Upper

128 100

129 11.5 9.0 13.6

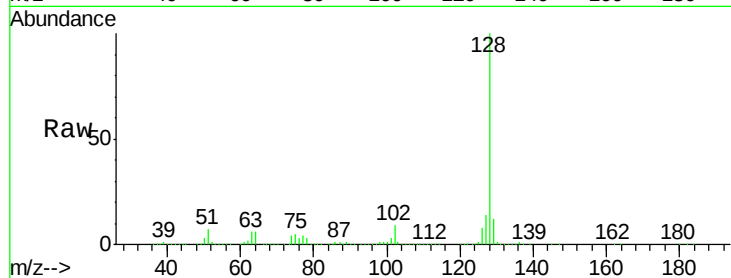
127 13.8 10.8 16.2

Manual Integrations

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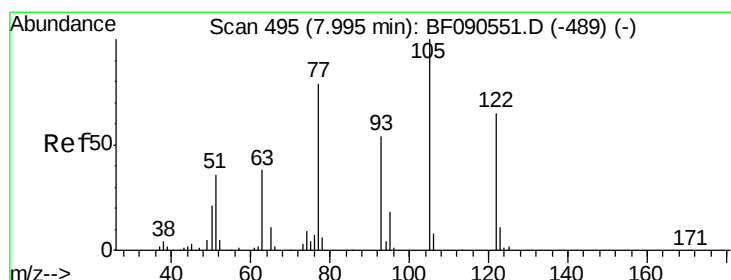
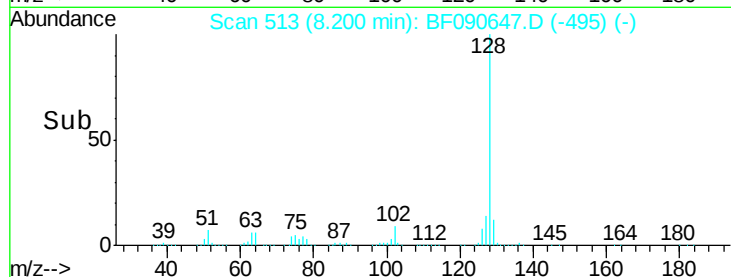
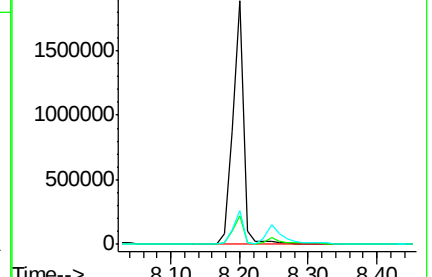
10/20/2016 10:36:47 AM



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#32

Benzoic acid

Concen: 34.88 ng

RT: 7.97 min Scan# 493

Delta R.T. -0.01 min

Lab File: BF090647.D

Acq: 19 Oct 2016 15:04

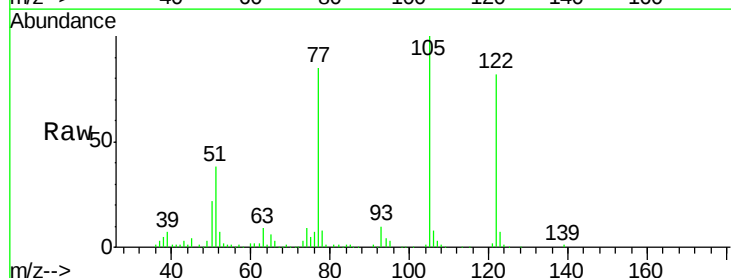
Tgt Ion:122 Resp: 344838

Ion Ratio Lower Upper

122 100

105 122.0 101.1 141.1

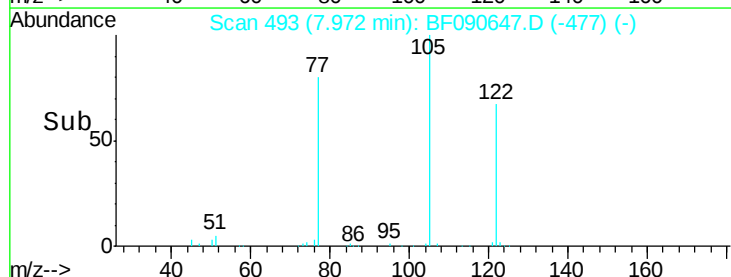
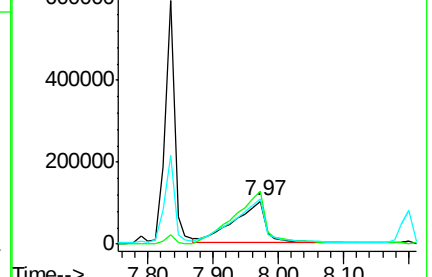
77 103.4 84.7 124.7

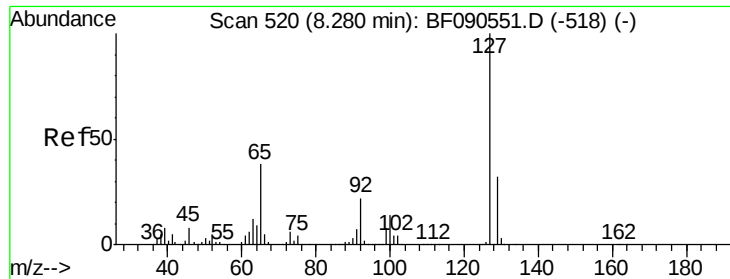


Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF0





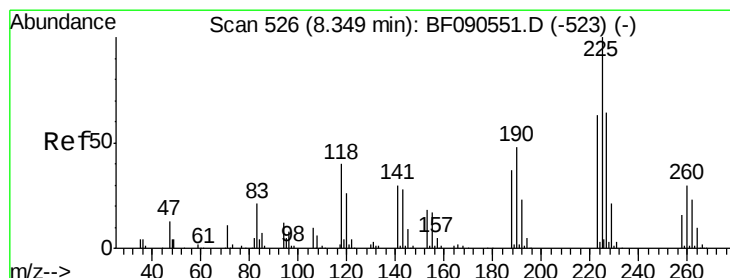
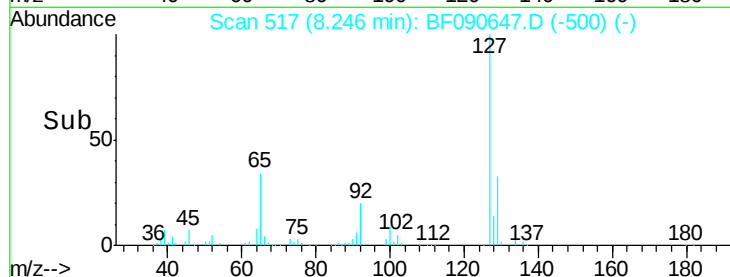
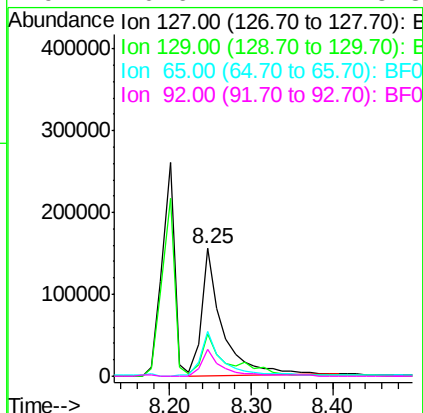
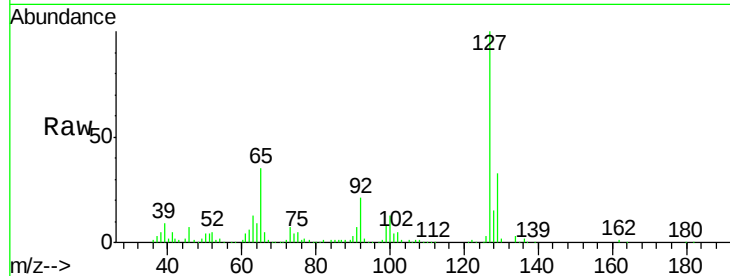
#33
4-Chloroaniline
Concen: 12.22 ng
RT: 8.25 min Scan# 517
Delta R.T. -0.01 min
Lab File: BF090647.D
Acq: 19 Oct 2016 15:04

Instrument :
BNA_F
ClientSampleId :
SOIL-CUTTINGSMS

Tot Ion	Ratio	Lower	Upper
127	100		
129	33.3	26.2	39.2
65	35.4	30.1	45.1
92	20.6	17.2	25.8

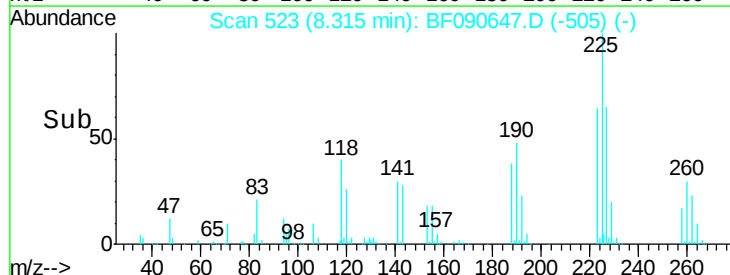
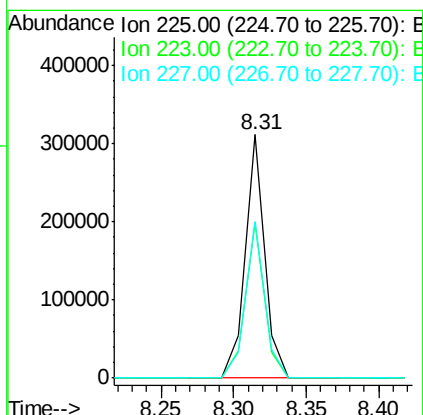
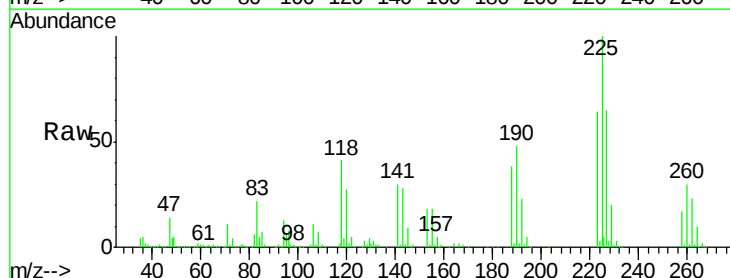
Manual Integrations
APPROVED

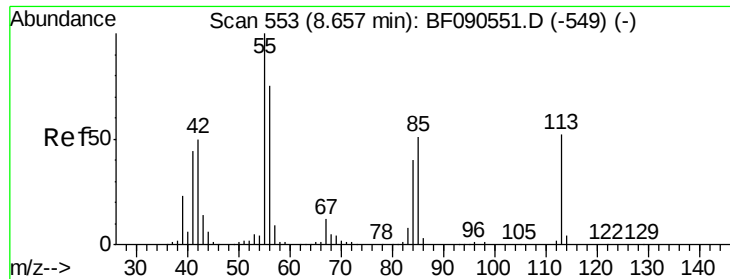
Sohil
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#34
Hexachlorobutadiene
Concen: 31.41 ng
RT: 8.31 min Scan# 523
Delta R.T. 0.00 min
Lab File: BF090647.D
Acq: 19 Oct 2016 15:04

Tgt Ion	Ratio	Lower	Upper
225	100		
223	64.0	50.6	76.0
227	64.5	51.4	77.2





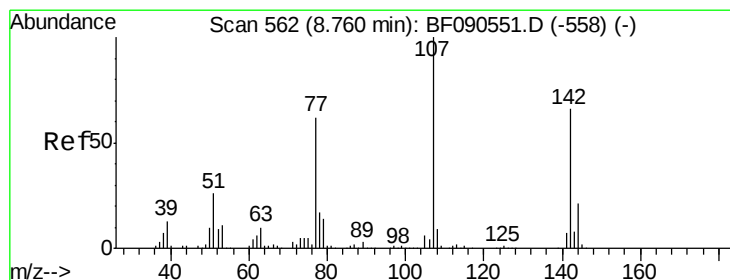
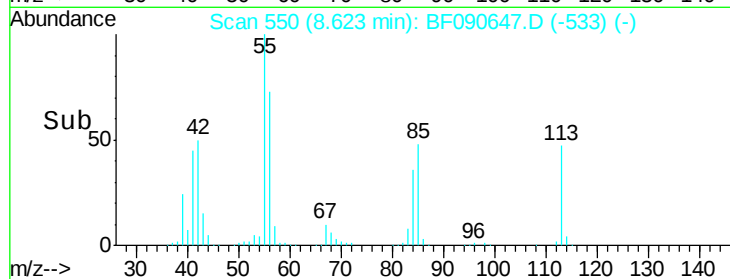
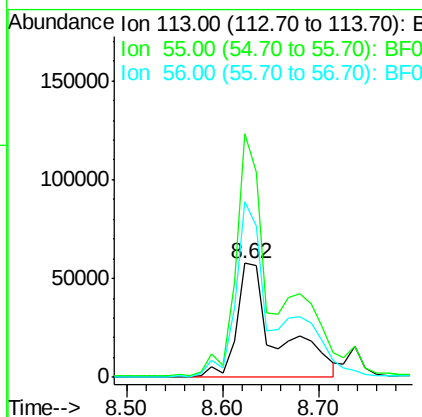
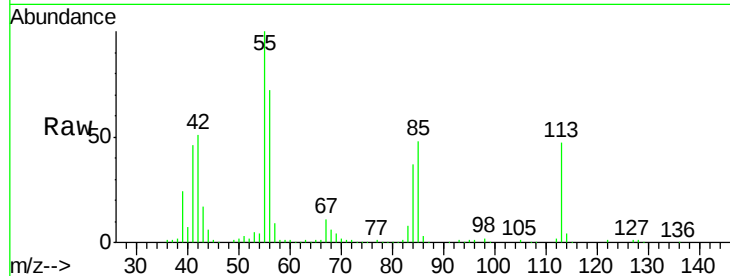
#35
Caprolactam
Concen: 43.45 ng/ml
RT: 8.62 min Scan# 550
Delta R.T. -0.01 min
Lab File: BF090647.D
Acq: 19 Oct 2016 15:04

Instrument :
BNA_F
ClientSampleId :
SOIL-CUTTINGSMS

Tot Ion:113 Resp: 171006
Ion Ratio Lower Upper
113 100
55 214.1 170.8 210.8#
56 154.8 122.4 162.4

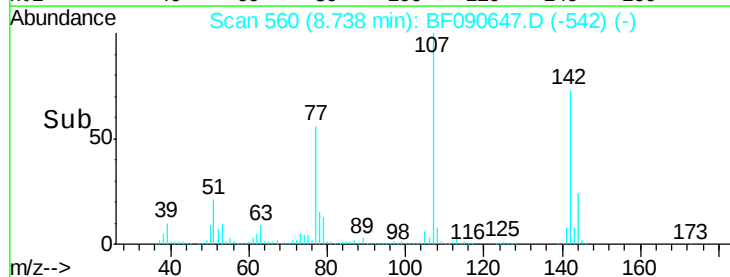
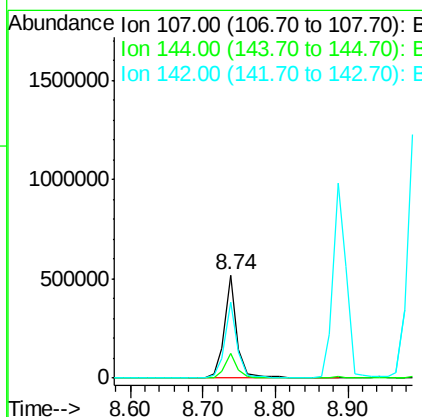
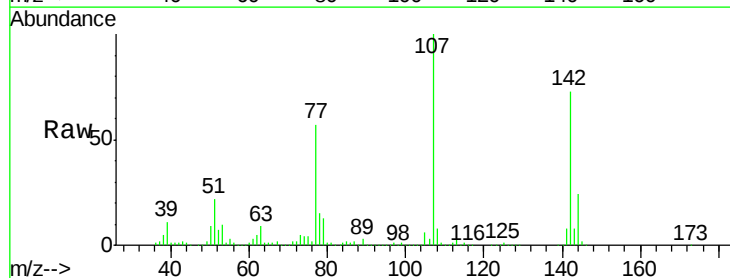
Manual Integrations
APPROVED

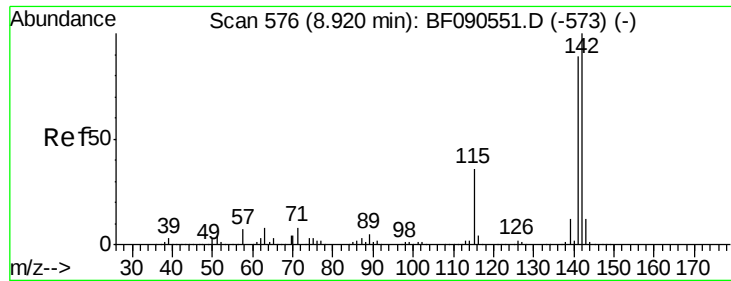
Sohil
10/20/2016 10:36:47 AM



#36
4-Chloro-3-methylphenol
Concen: 38.20 ng/ml
RT: 8.74 min Scan# 560
Delta R.T. 0.00 min
Lab File: BF090647.D
Acq: 19 Oct 2016 15:04

Tgt Ion:107 Resp: 621428
Ion Ratio Lower Upper
107 100
144 23.8 16.9 25.3
142 72.9 52.5 78.7





#37

2-Methylnaphthalene

Concen: 35.81 ng

RT: 8.89 min Scan# 573

Delta R.T. -0.01 min

Lab File: BF090647.D

Acq: 19 Oct 2016 15:04

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGSMS

Tot Ion:142 Resp: 1240160

Ion Ratio Lower Upper

142 100

141 89.6 71.3 106.9

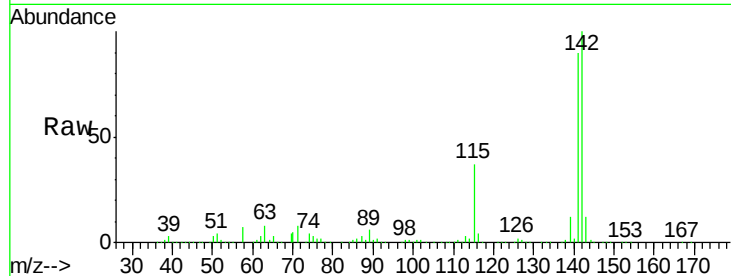
115 36.7 28.8 43.2

Manual Integrations

APPROVED

Sohil

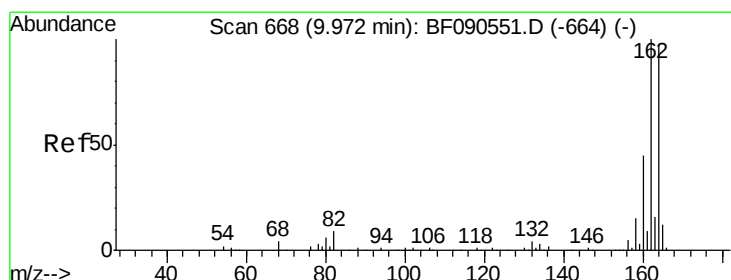
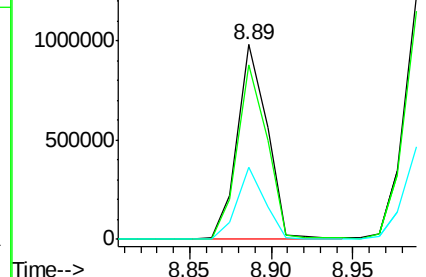
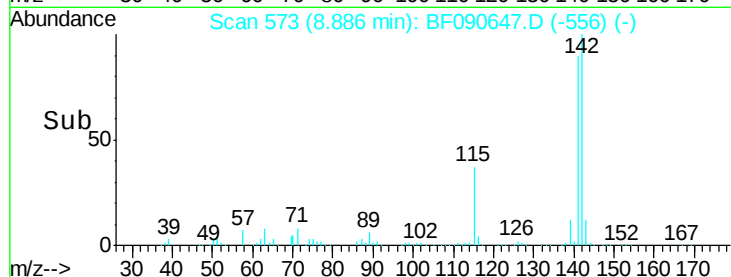
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Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.94 min Scan# 665

Delta R.T. 0.00 min

Lab File: BF090647.D

Acq: 19 Oct 2016 15:04

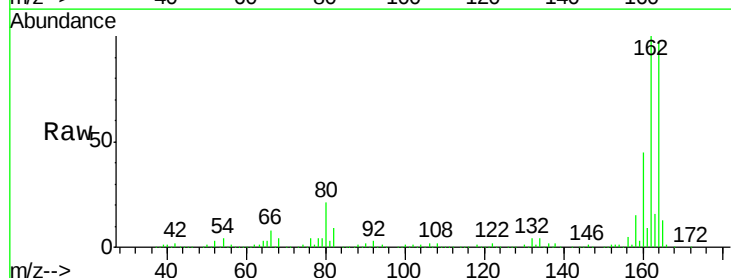
Tgt Ion:164 Resp: 638034

Ion Ratio Lower Upper

164 100

162 103.6 82.2 123.4

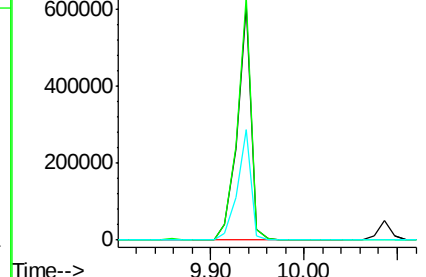
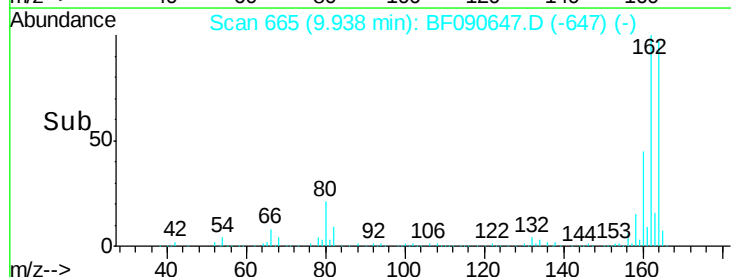
160 47.0 36.6 55.0

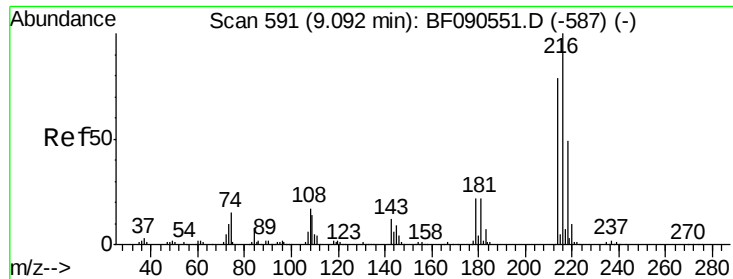


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





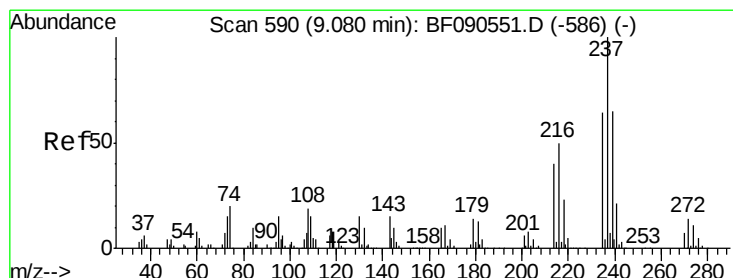
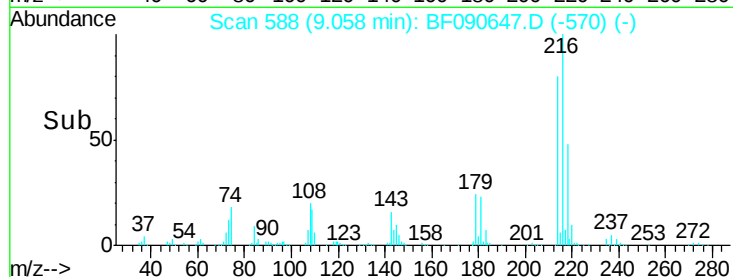
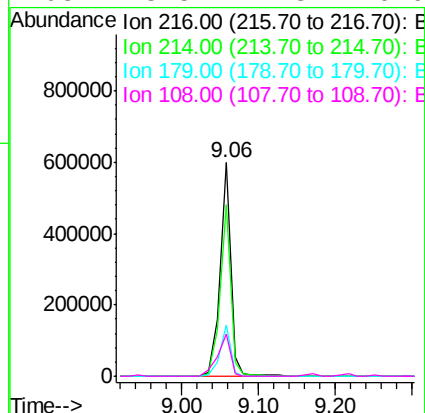
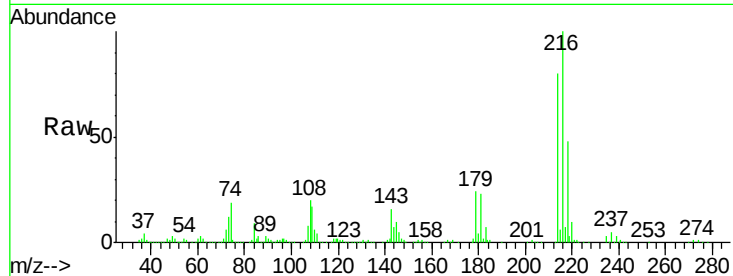
#39
1,2,4,5-Tetrachlorobenzene
Concen: 34.28 ng
RT: 9.06 min Scan# 588
Delta R.T. 0.00 min
Lab File: BF090647.D
Acq: 19 Oct 2016 15:04

Instrument :
BNA_F
ClientSampleId :
SOIL-CUTTINGSMS

Tot Ion	Ratio	Resp	Lower	Upper
216	100	579955		
214	80.3	63.5	95.3	
179	23.8	18.9	28.3	
108	23.5	17.8	26.6	

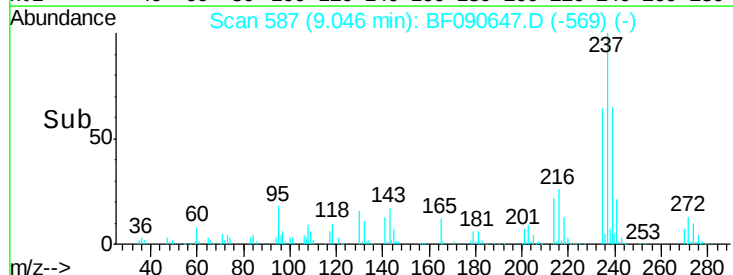
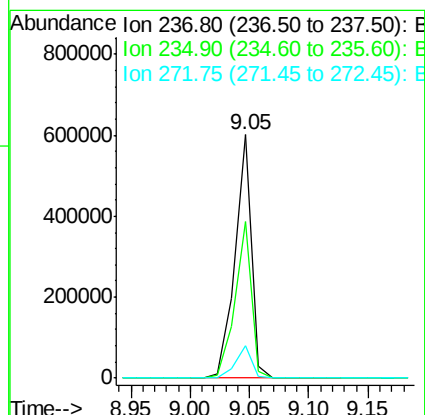
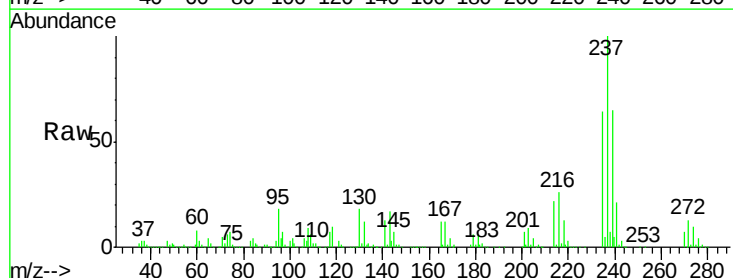
Manual Integrations
APPROVED

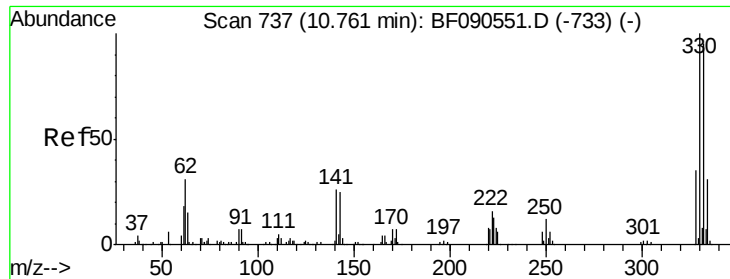
Sohil
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#40
Hexachlorocyclopentadiene
Concen: 69.90 ng
RT: 9.05 min Scan# 587
Delta R.T. 0.00 min
Lab File: BF090647.D
Acq: 19 Oct 2016 15:04

Tgt Ion	Ratio	Resp	Lower	Upper
237	100	577676		
235	64.2	43.8	83.8	
272	13.3	0.0	33.7	





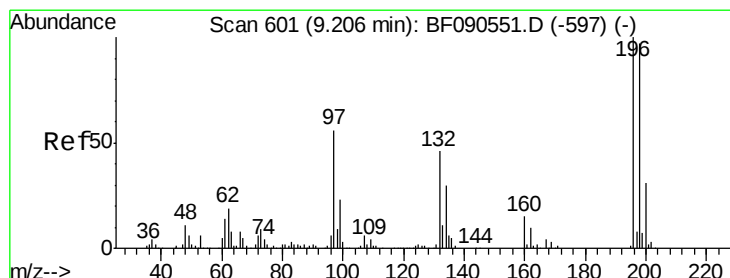
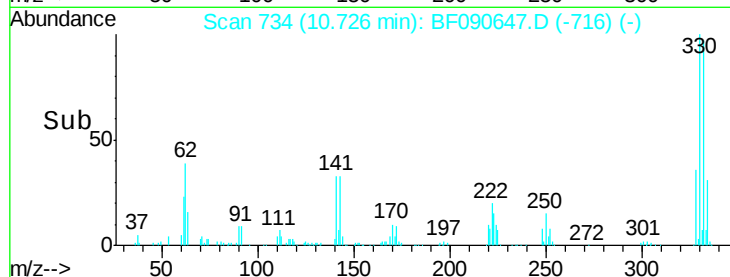
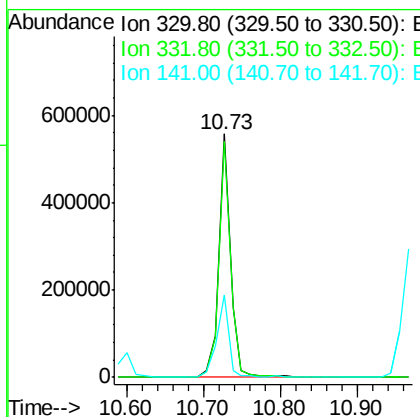
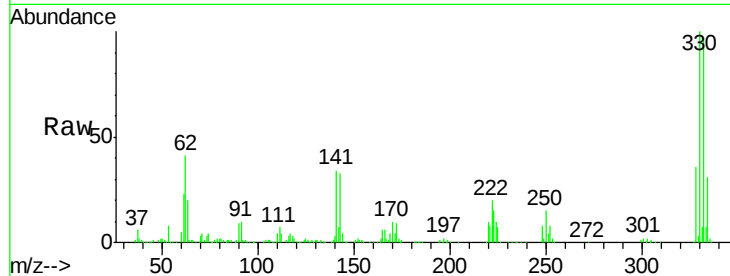
#41
 2,4,6-Tribromophenol
 Concen: 105.02 ng
 RT: 10.73 min Scan# 734
 Delta R.T. 0.00 min
 Lab File: BF090647.D
 Acq: 19 Oct 2016 15:04

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CUTTINGSMS

Tot Ion	Ratio	Resp	Lower	Upper
330	100	597386		
332	97.5	76.2	114.2	
141	33.6	31.4	47.2	

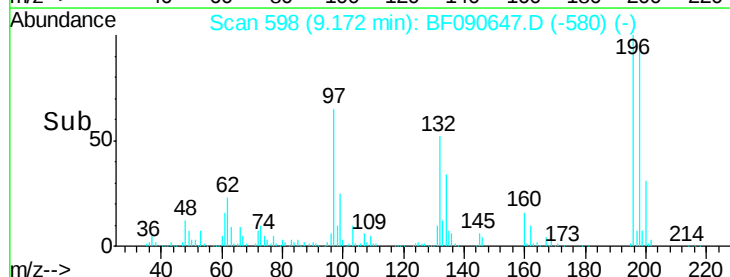
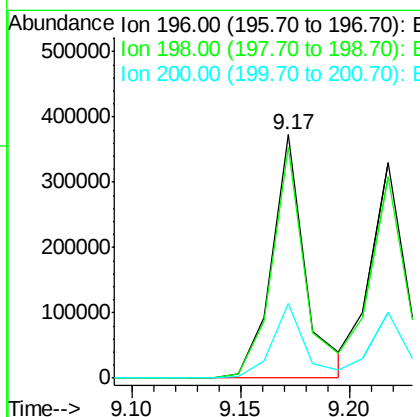
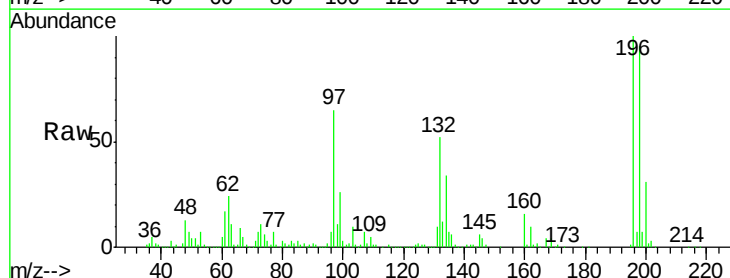
Manual Integrations
 APPROVED

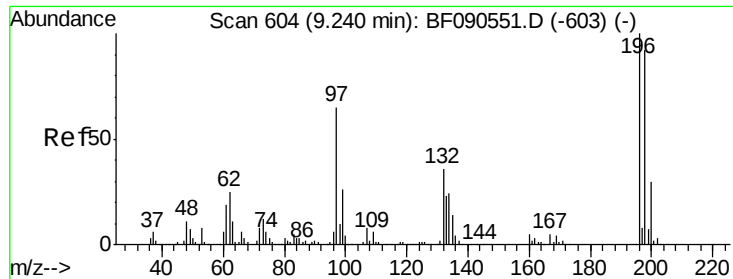
Sohil
 10/20/2016 10:36:47 AM



#42
 2,4,6-Trichlorophenol
 Concen: 41.82 ng
 RT: 9.17 min Scan# 598
 Delta R.T. 0.00 min
 Lab File: BF090647.D
 Acq: 19 Oct 2016 15:04

Tgt Ion	Ratio	Resp	Lower	Upper
196	100	399100		
198	94.9	77.9	116.9	
200	30.5	25.1	37.7	





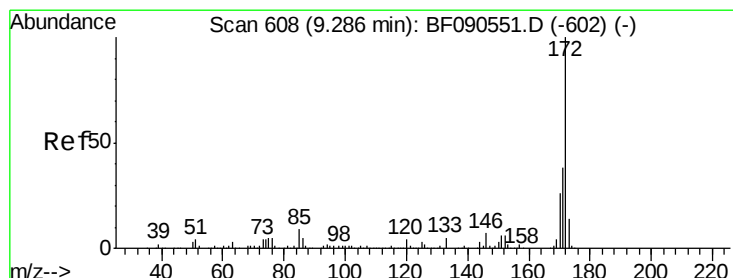
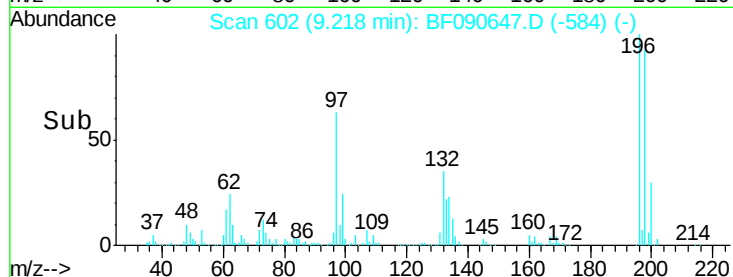
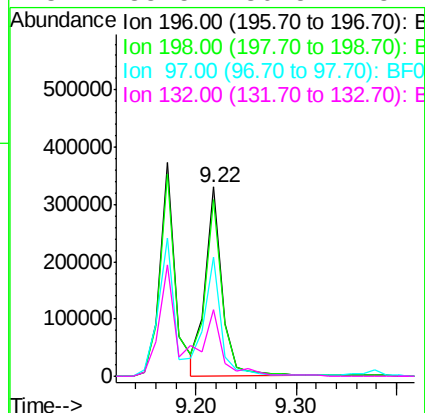
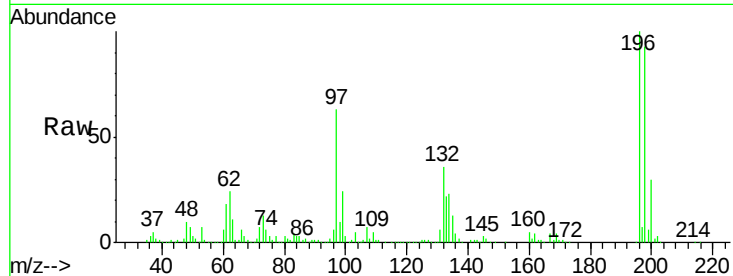
#43
2,4,5-Trichlorophenol
Concen: 33.68 ng
RT: 9.22 min Scan# 602
Delta R.T. 0.00 min
Lab File: BF090647.D
Acq: 19 Oct 2016 15:04

Instrument :
BNA_F
ClientSampleId :
SOIL-CUTTINGSMS

Tot Ion:	196	Resp:	383373
Ion Ratio	Lower	Upper	
196	100		
198	93.2	74.0	111.0
97	63.1	54.7	82.1
132	35.5	30.5	45.7

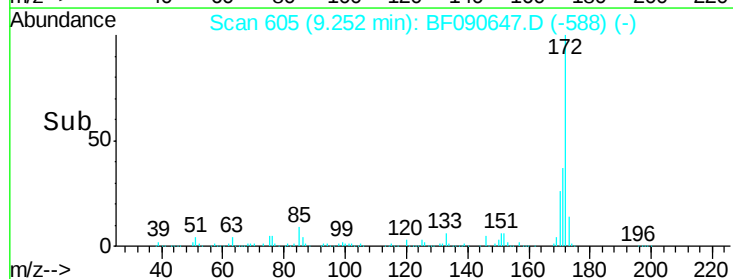
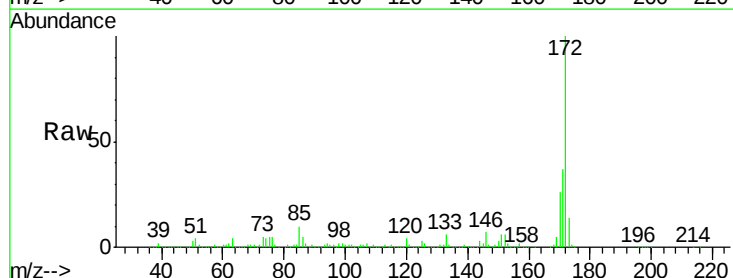
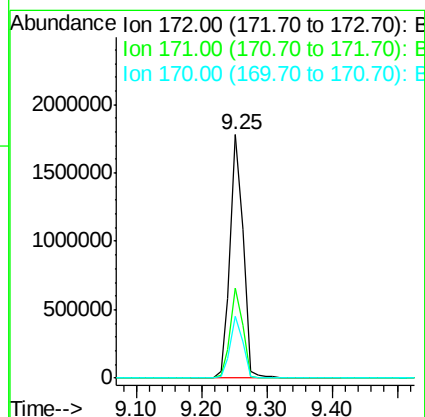
Manual Integrations
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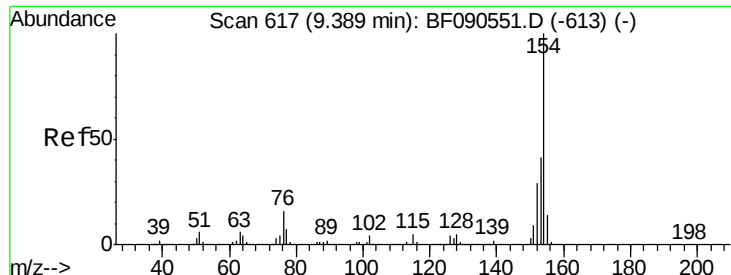
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#44
2-Fluorobiphenyl
Concen: 64.08 ng
RT: 9.25 min Scan# 605
Delta R.T. -0.01 min
Lab File: BF090647.D
Acq: 19 Oct 2016 15:04

Tgt Ion:	172	Resp:	2481522
Ion Ratio	Lower	Upper	
172	100		
171	37.2	30.1	45.1
170	25.6	20.6	30.8





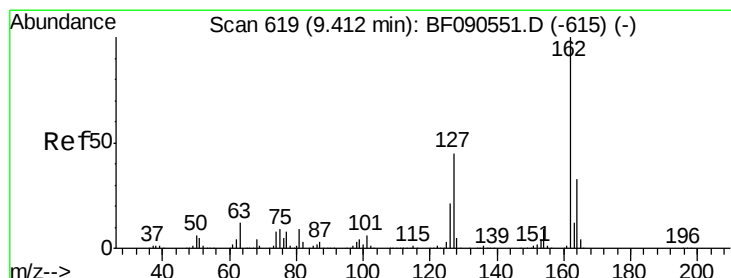
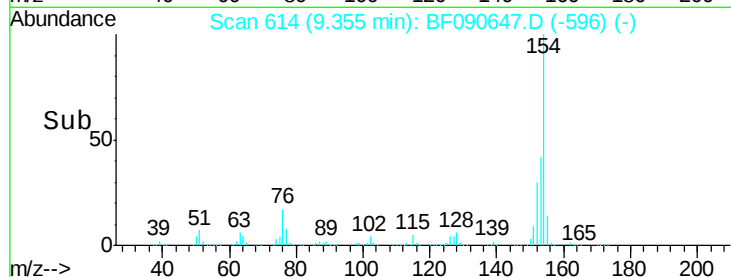
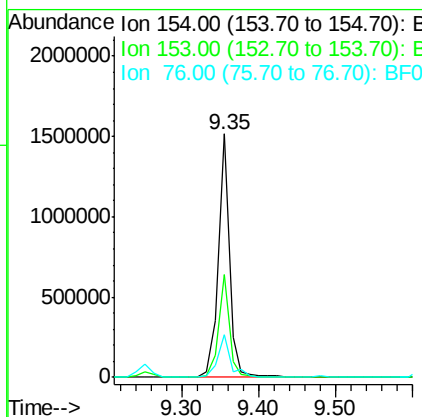
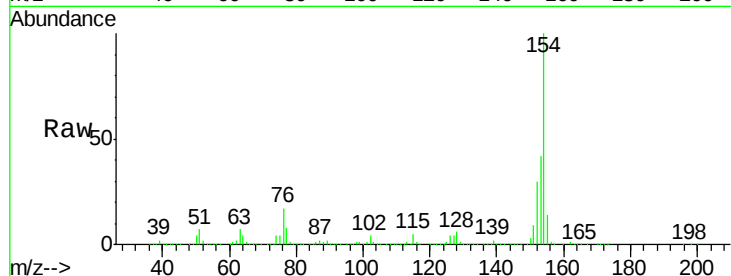
#45
 1,1'-Biphenyl
 Concen: 31.92 ng
 RT: 9.35 min Scan# 614
 Delta R.T. 0.00 min
 Lab File: BF090647.D
 Acq: 19 Oct 2016 15:04

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CUTTINGSMS

Tot Ion	Ratio	Lower	Upper
154	100		
153	42.1	21.5	61.5
76	17.3	0.0	36.0

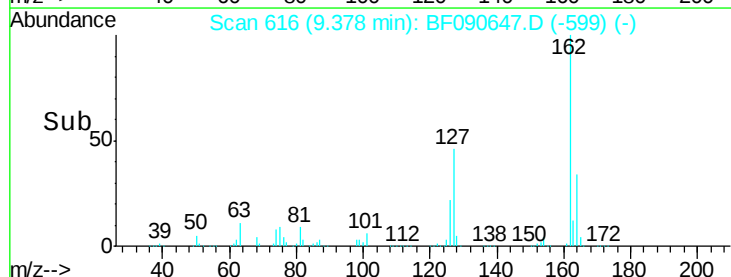
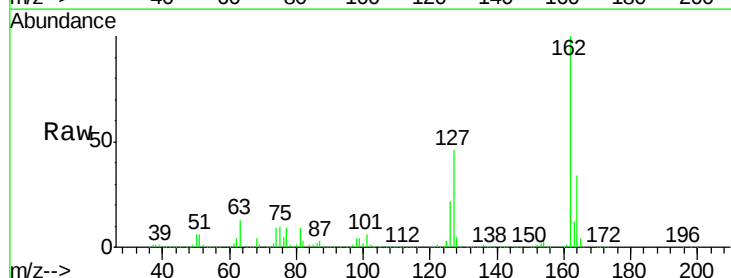
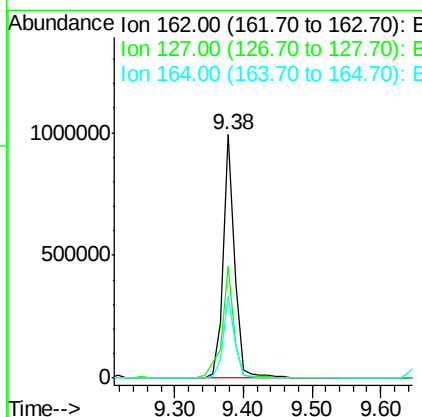
Manual Integrations
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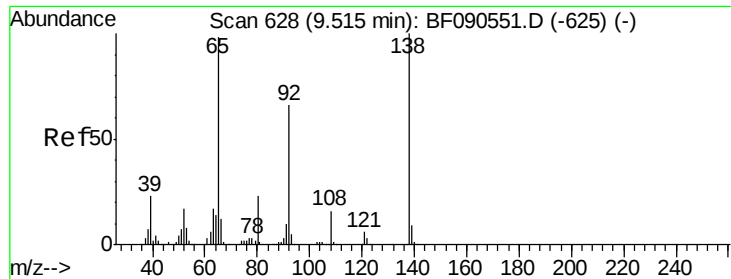
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#46
 2-Chloronaphthalene
 Concen: 32.83 ng
 RT: 9.38 min Scan# 616
 Delta R.T. -0.01 min
 Lab File: BF090647.D
 Acq: 19 Oct 2016 15:04

Tgt Ion	Ratio	Lower	Upper
162	100		
127	46.1	35.9	53.9
164	33.6	26.7	40.1





#47

2-Nitroaniline

Concen: 37.18 ng

RT: 9.48 min Scan# 625

Delta R.T. 0.00 min

Lab File: BF090647.D

Acq: 19 Oct 2016 15:04

Instrument :

BNA_F

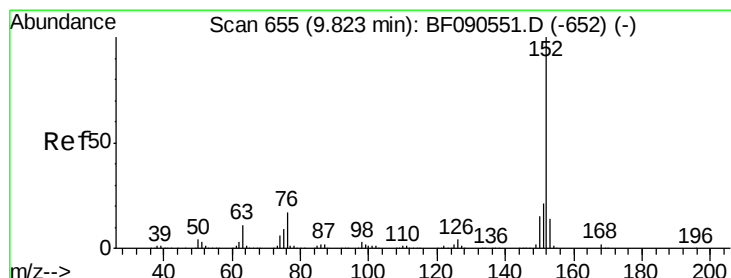
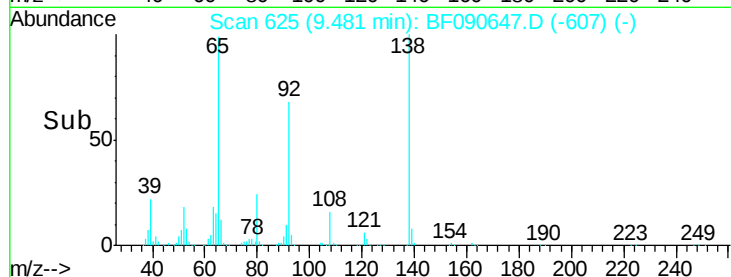
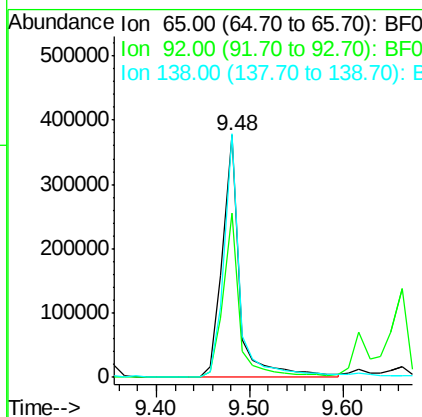
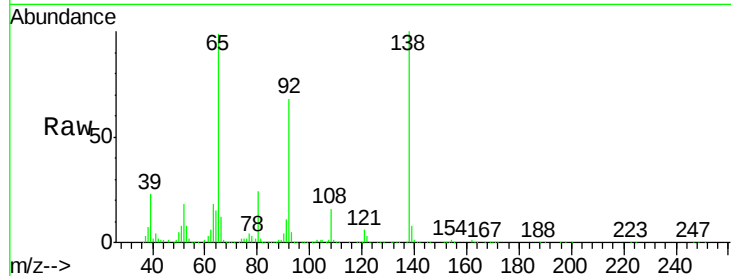
ClientSampleId :

SOIL-CUTTINGSMS

Tot Ion:	65	Resp:	487918
Ion Ratio	Lower	Upper	
65	100		
92	68.1	54.3	81.5
138	100.6	81.7	122.5

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#48

Acenaphthylene

Concen: 34.82 ng

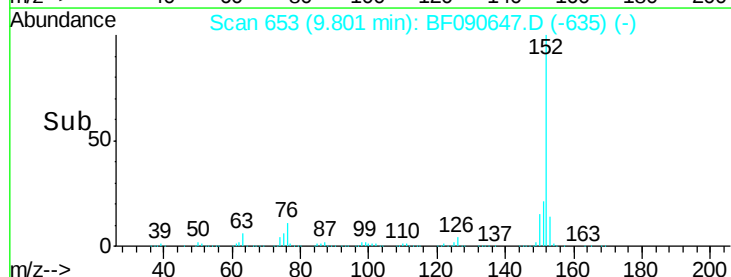
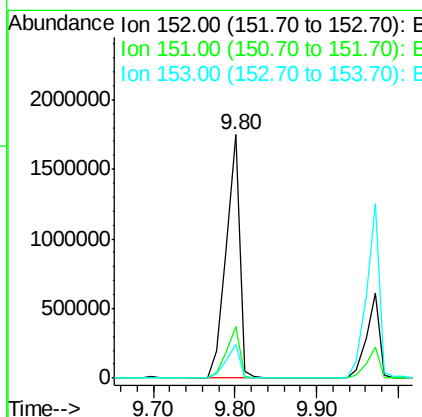
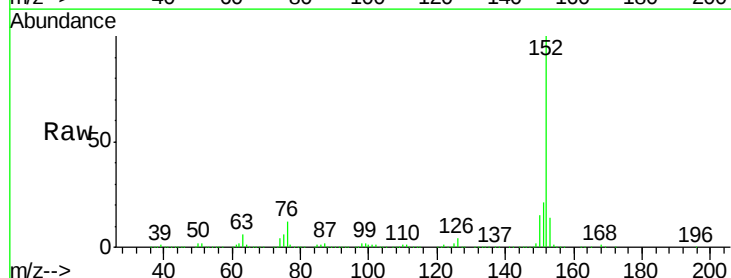
RT: 9.80 min Scan# 653

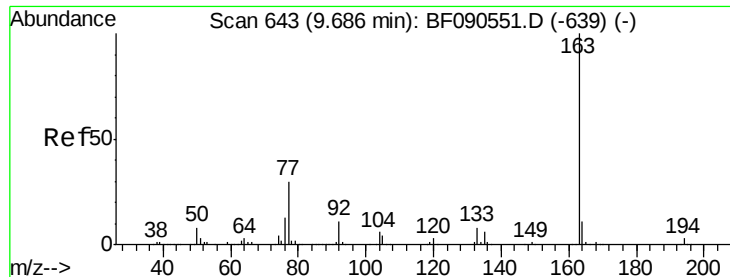
Delta R.T. 0.00 min

Lab File: BF090647.D

Acq: 19 Oct 2016 15:04

Tgt Ion:	152	Resp:	2007284
Ion Ratio	Lower	Upper	
152	100		
151	21.1	16.6	25.0
153	13.8	11.3	16.9





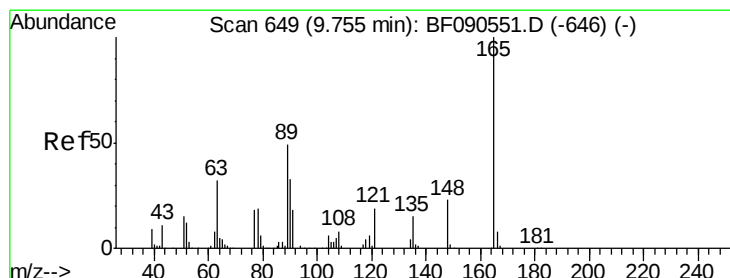
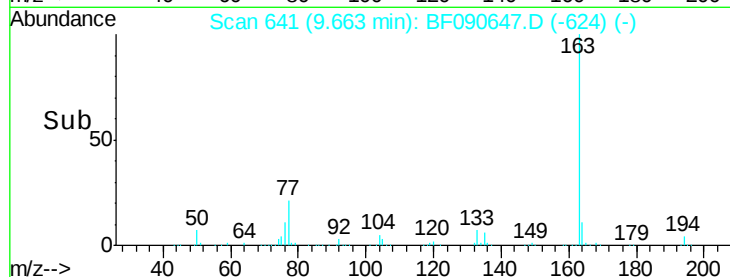
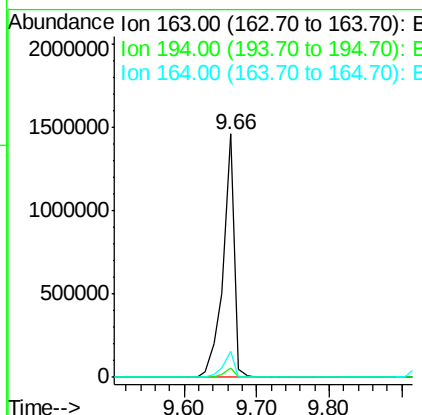
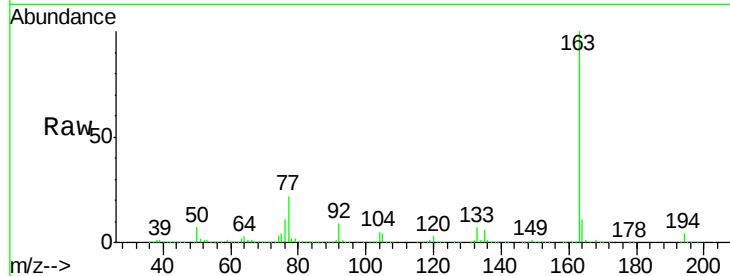
#49
Dimethylphthalate
Concen: 37.71 ng
RT: 9.66 min Scan# 641
Delta R.T. 0.00 min
Lab File: BF090647.D
Acq: 19 Oct 2016 15:04

Instrument :
BNA_F
ClientSampleId :
SOIL-CUTTINGSMS

Tot Ion:163 Resp: 1561066
Ion Ratio Lower Upper
163 100
194 3.6 2.3 3.5#
164 10.6 8.6 13.0

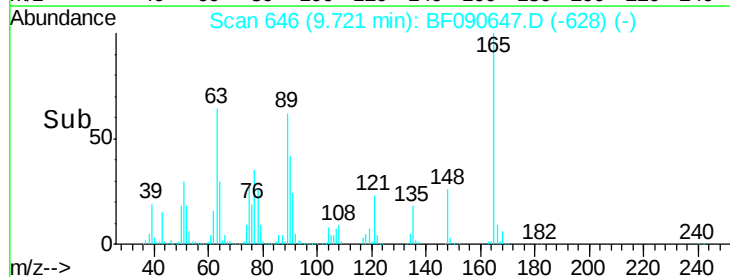
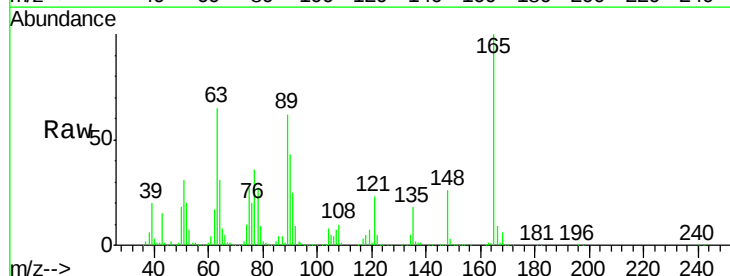
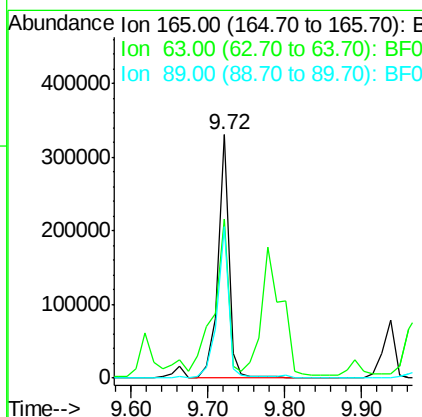
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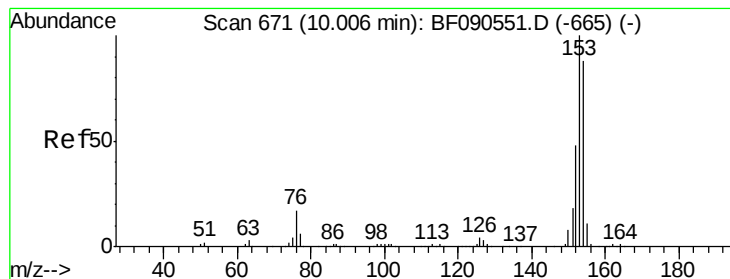
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#50
2,6-Dinitrotoluene
Concen: 36.03 ng
RT: 9.72 min Scan# 646
Delta R.T. 0.00 min
Lab File: BF090647.D
Acq: 19 Oct 2016 15:04

Tgt Ion:165 Resp: 326335
Ion Ratio Lower Upper
165 100
63 65.2 40.1 60.1#
89 62.4 39.5 59.3#





#51

Acenaphthene

Concen: 37.03 ng

RT: 9.97 min Scan# 668

Delta R.T. 0.00 min

Lab File: BF090647.D

Acq: 19 Oct 2016 15:04

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGSMS

Tot Ion:154 Resp: 1418971

Ion Ratio Lower Upper

154 100

153 113.8 91.2 136.8

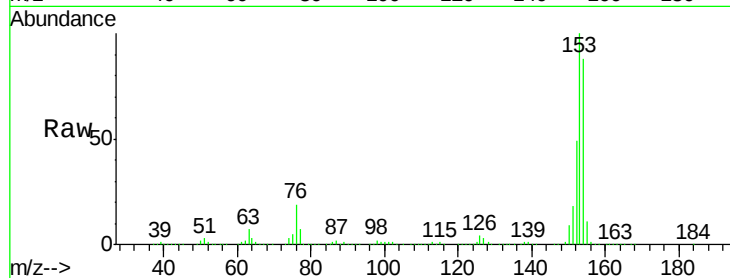
152 55.6 44.0 66.0

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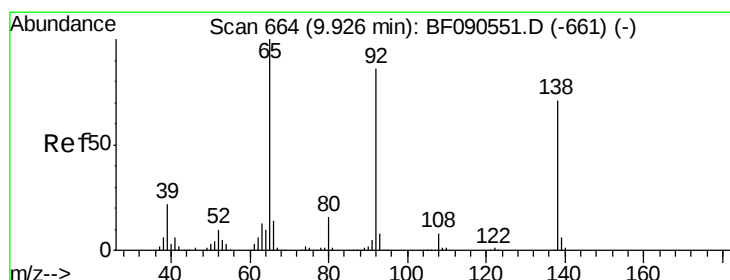
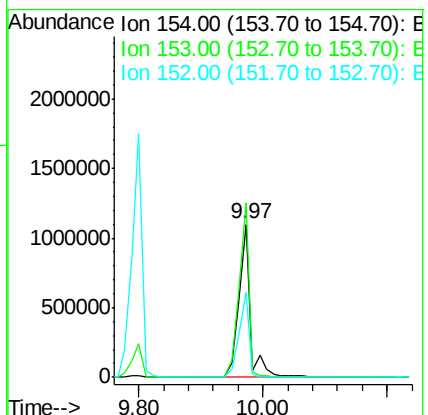
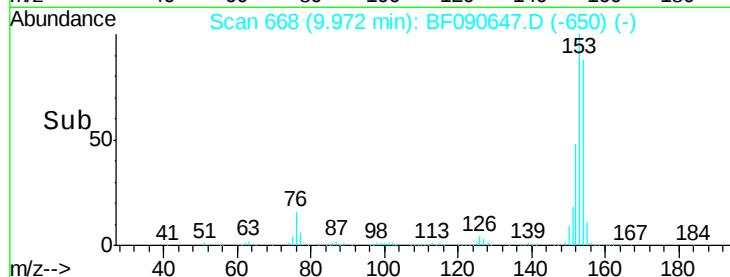
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Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#52

3-Nitroaniline

Concen: 16.34 ng

RT: 9.89 min Scan# 661

Delta R.T. 0.00 min

Lab File: BF090647.D

Acq: 19 Oct 2016 15:04

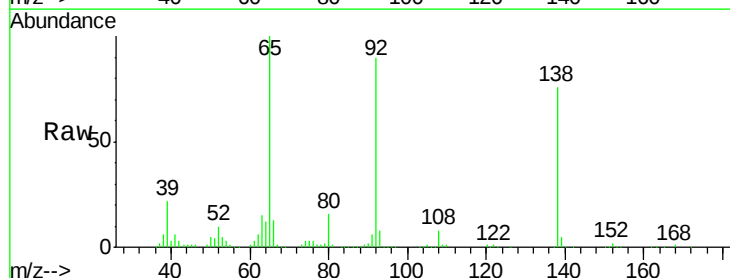
Tgt Ion:138 Resp: 185691

Ion Ratio Lower Upper

138 100

108 10.0 8.6 12.8

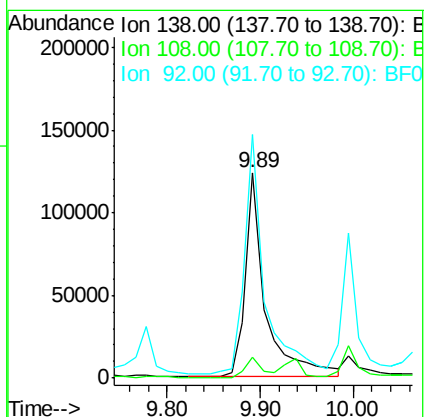
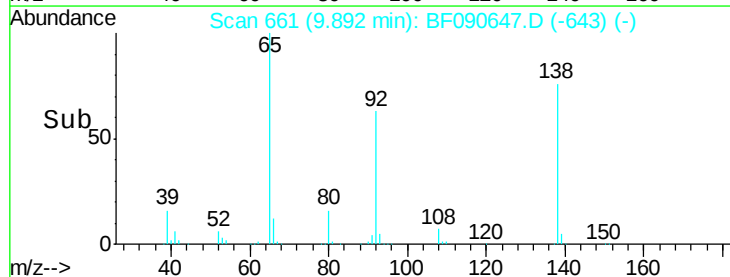
92 118.4 97.8 146.8

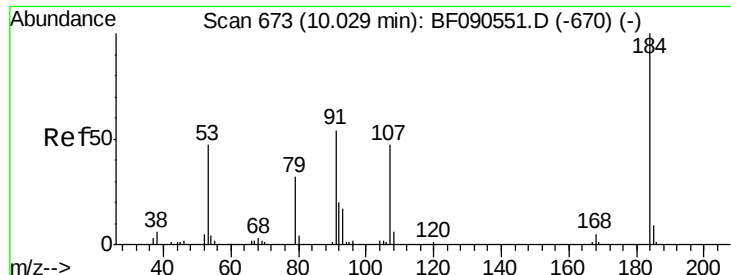


Abundance Ion 138.00 (137.70 to 138.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 92.00 (91.70 to 92.70): BF0





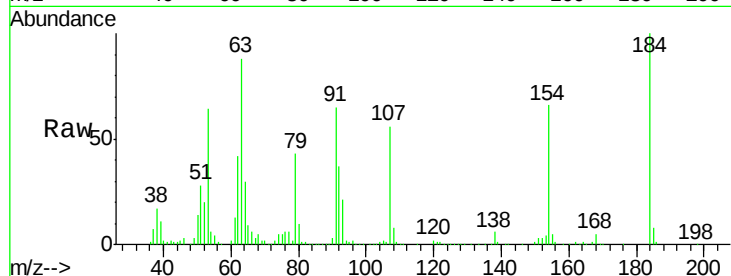
#53
2,4-Dinitrophenol
Concen: 65.51 ng
RT: 9.99 min Scan# 670
Delta R.T. 0.00 min
Lab File: BF090647.D
Acq: 19 Oct 2016 15:04

Instrument :
BNA_F
ClientSampleId :
SOIL-CUTTINGSMS

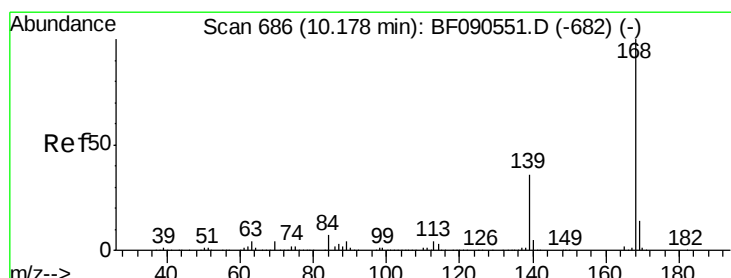
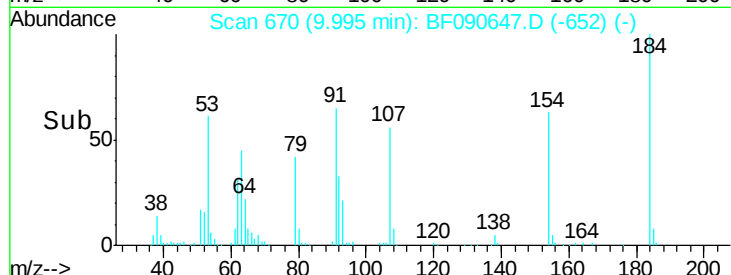
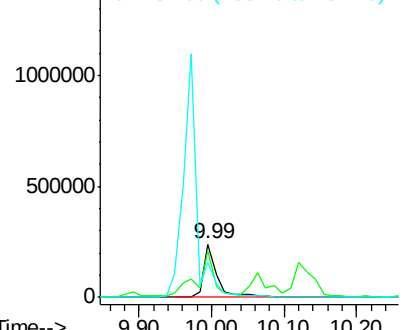
Tot Ion	Ratio	Resp	Lower	Upper
184	100			
63	88.2	60.2	90.2	
154	66.3	86.1	129.1	

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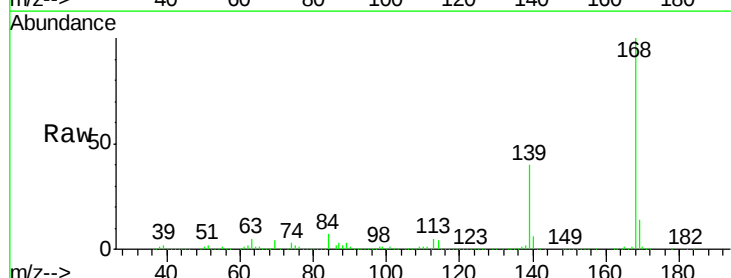


Abundance Ion 184.00 (183.70 to 184.70): E
Ion 63.00 (62.70 to 63.70): BF0
Ion 154.00 (153.70 to 154.70): E

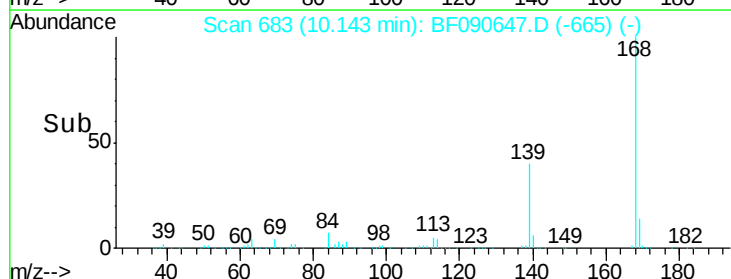
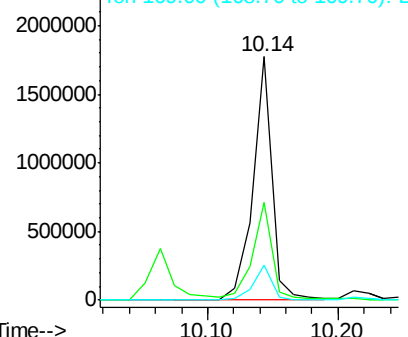


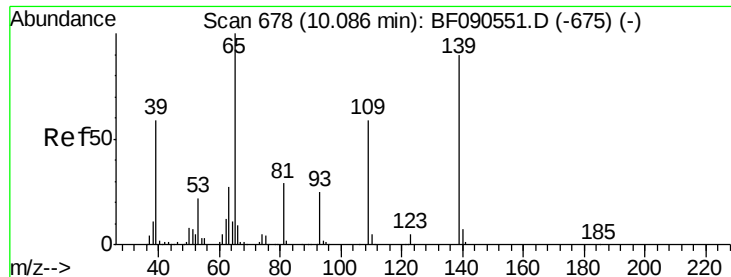
#54
Dibenzofuran
Concen: 35.78 ng
RT: 10.14 min Scan# 683
Delta R.T. 0.00 min
Lab File: BF090647.D
Acq: 19 Oct 2016 15:04

Tgt Ion	Ratio	Resp	Lower	Upper
168	100			
139	40.3	30.5	45.7	
169	14.2	10.9	16.3	



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





#55

4-Nitrophenol

Concen: 70.98 ng

RT: 10.06 min Scan# 676

Delta R.T. 0.00 min

Lab File: BF090647.D

Acq: 19 Oct 2016 15:04

Instrument :

BNA_F

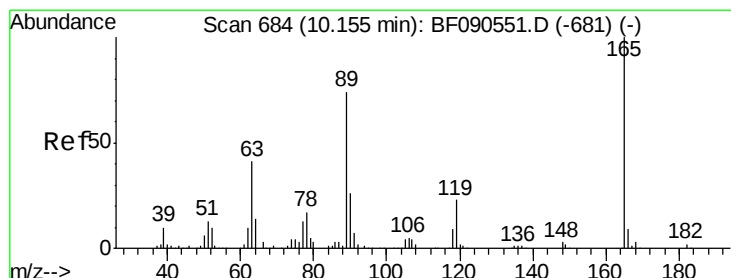
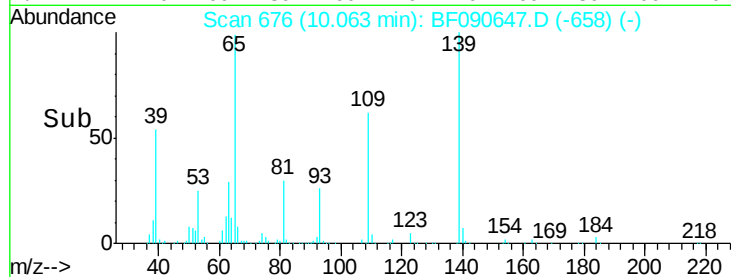
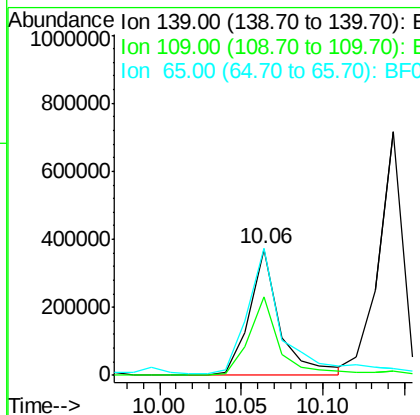
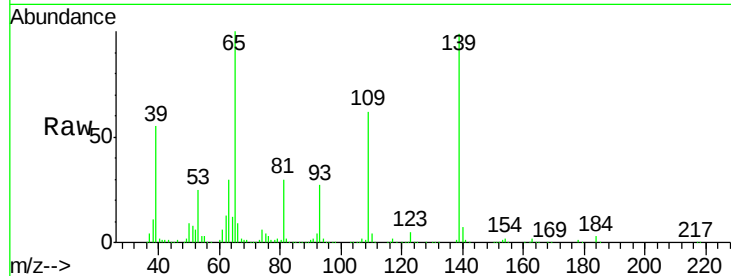
ClientSampleId :

SOIL-CUTTINGSMS

Tot Ion:	139	Resp:	485556
Ion Ratio	Lower	Upper	
139	100		
109	62.2	45.9	85.9
65	100.8	95.8	135.8

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#56

2,4-Dinitrotoluene

Concen: 37.43 ng

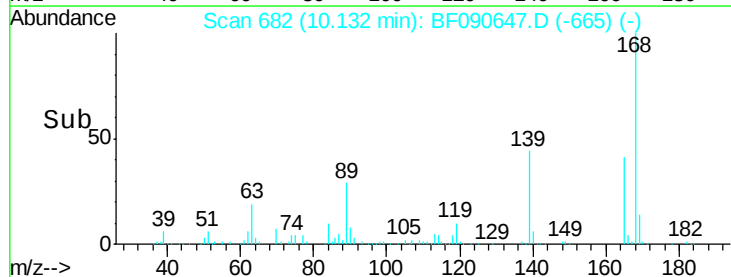
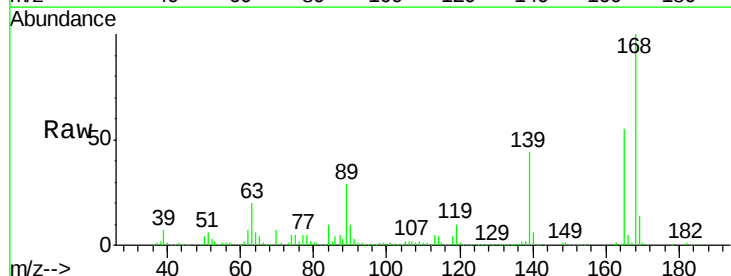
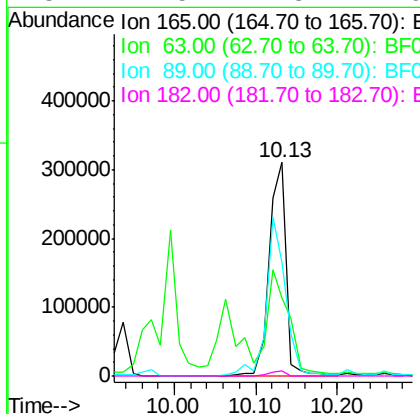
RT: 10.13 min Scan# 682

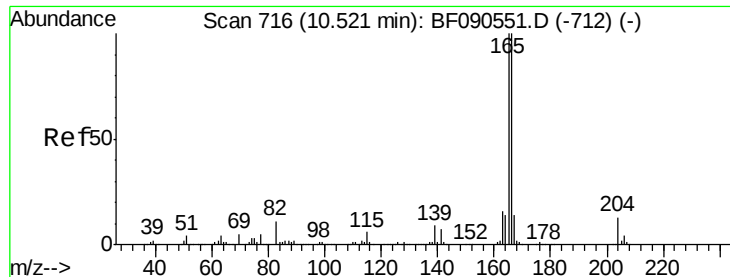
Delta R.T. 0.00 min

Lab File: BF090647.D

Acq: 19 Oct 2016 15:04

Tgt Ion:	165	Resp:	460583
Ion Ratio	Lower	Upper	
165	100		
63	36.3	35.4	53.0
89	53.3	59.0	88.4#
182	2.5	1.8	2.6





#57

Fluorene

Concen: 33.86 ng

RT: 10.49 min Scan# 713

Delta R.T. 0.00 min

Lab File: BF090647.D

Acq: 19 Oct 2016 15:04

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGSMS

Tot Ion:166 Resp: 1407685

Ion Ratio Lower Upper

166 100

165 99.8 79.9 119.9

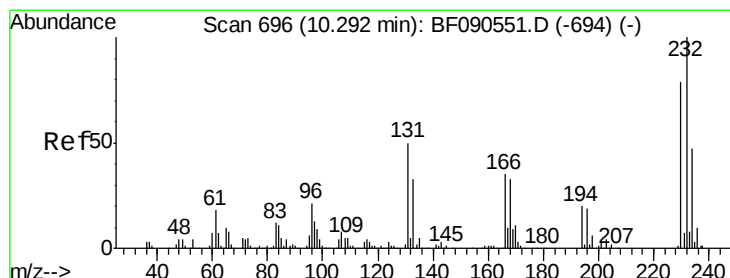
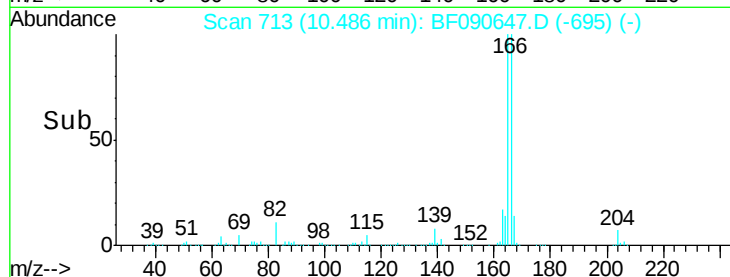
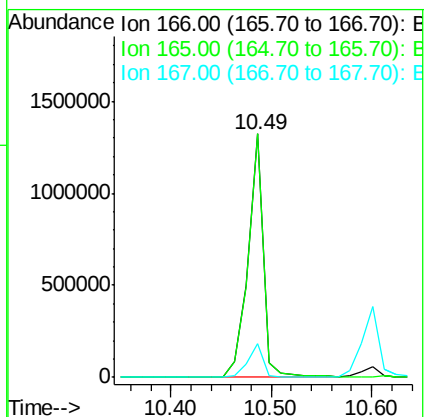
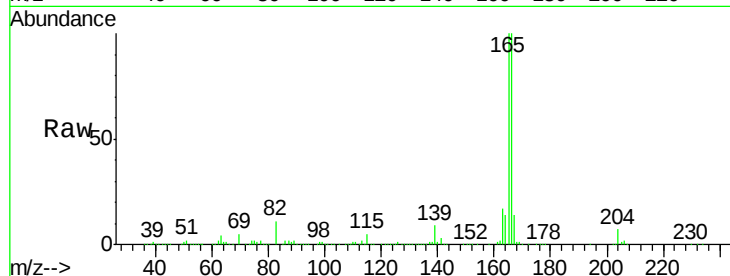
167 13.8 10.9 16.3

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#58

2,3,4,6-Tetrachlorophenol

Concen: 36.29 ng

RT: 10.26 min Scan# 693

Delta R.T. -0.01 min

Lab File: BF090647.D

Acq: 19 Oct 2016 15:04

Tgt Ion:232 Resp: 344072

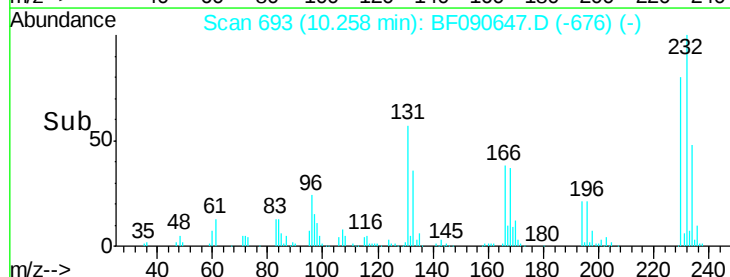
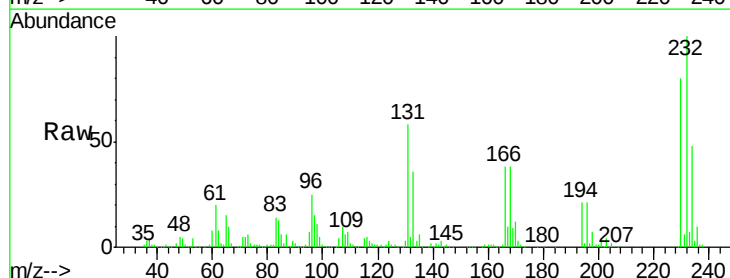
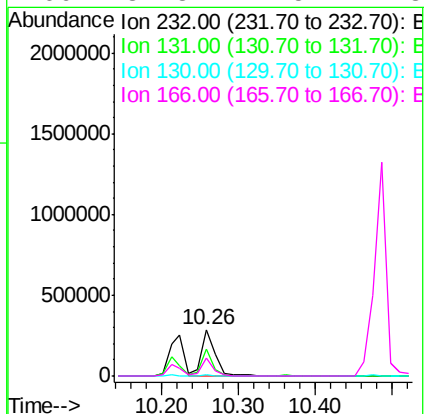
Ion Ratio Lower Upper

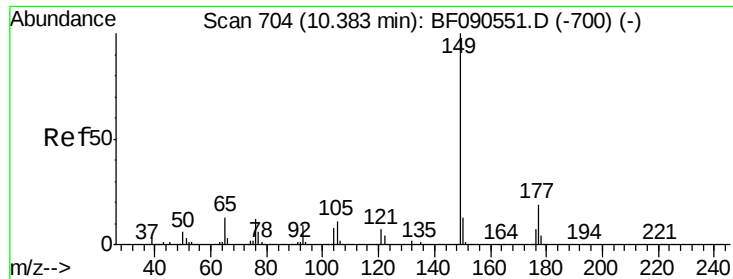
232 100

131 48.7 42.6 64.0

130 2.2 1.8 2.8

166 31.8 27.5 41.3





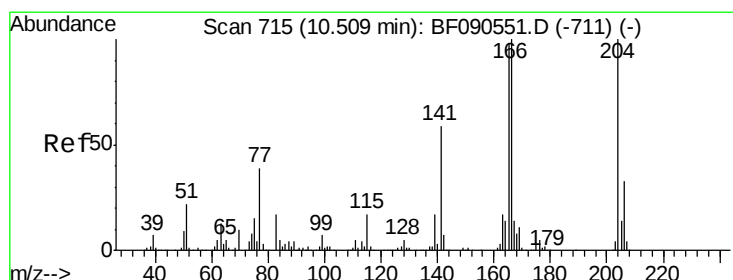
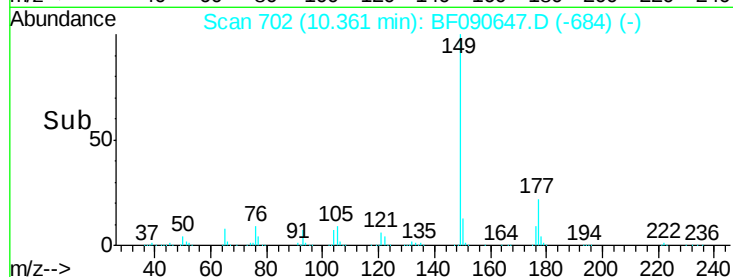
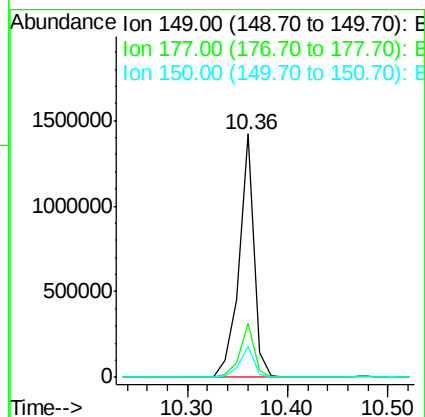
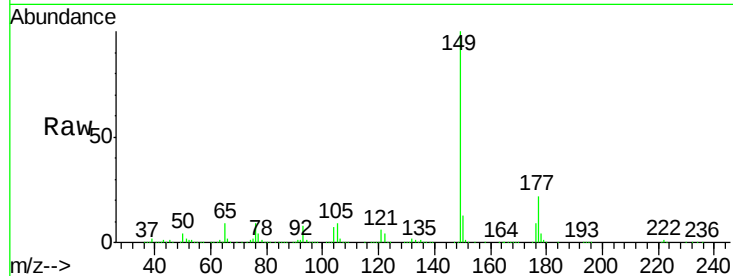
#59
Diethylphthalate
Concen: 35.14 ng
RT: 10.36 min Scan# 702
Delta R.T. 0.00 min
Lab File: BF090647.D
Acq: 19 Oct 2016 15:04

Instrument :
BNA_F
ClientSampleId :
SOIL-CUTTINGSMS

Tot Ion	Ratio	Lower	Upper
149	100		
177	22.3	15.3	22.9
150	12.9	10.3	15.5

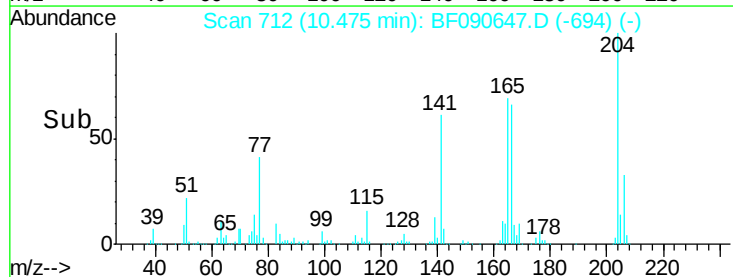
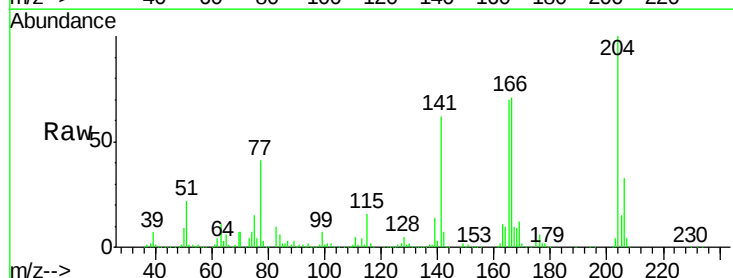
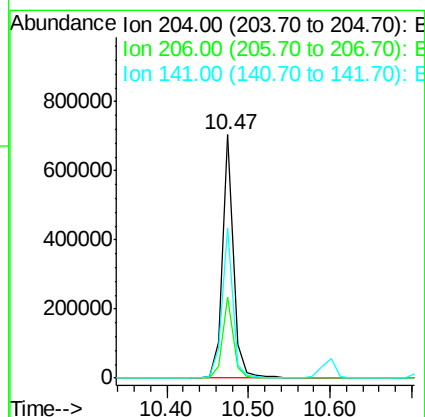
Manual Integrations
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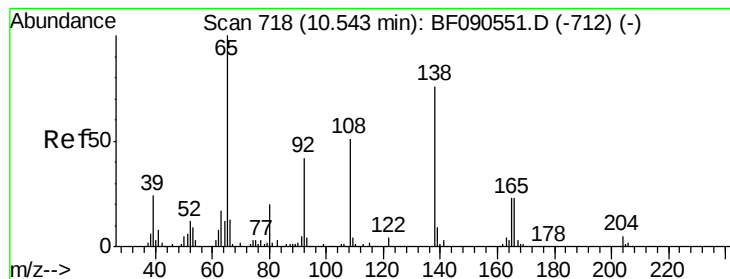
Sohil
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#60
4-Chlorophenyl-phenylether
Concen: 33.54 ng
RT: 10.47 min Scan# 712
Delta R.T. 0.00 min
Lab File: BF090647.D
Acq: 19 Oct 2016 15:04

Tgt Ion	Ratio	Lower	Upper
204	100		
206	33.0	26.5	39.7
141	61.7	47.2	70.8





#61

4-Nitroaniline

Concen: 28.31 ng

RT: 10.51 min Scan# 715

Delta R.T. 0.00 min

Lab File: BF090647.D

Acq: 19 Oct 2016 15:04

Instrument :

BNA_F

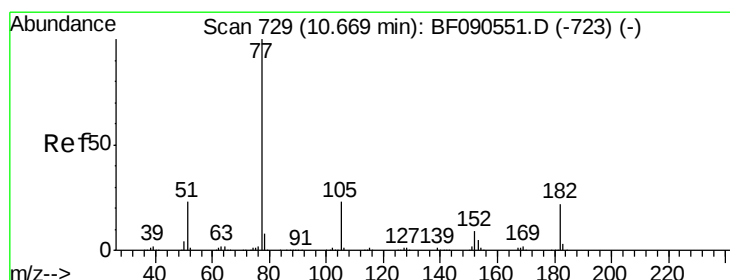
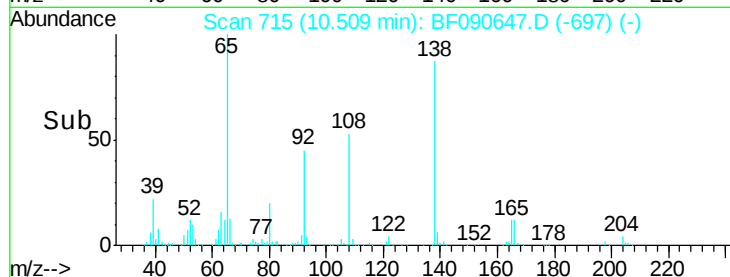
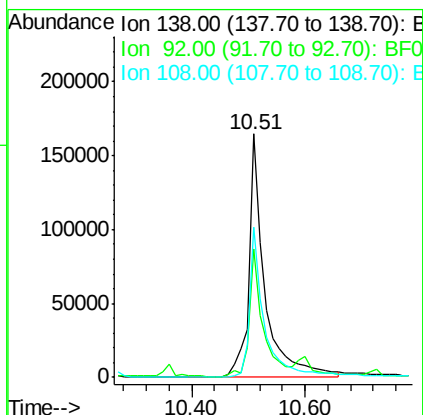
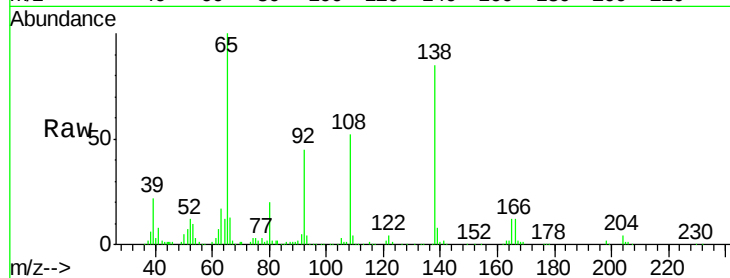
ClientSampleId :

SOIL-CUTTINGSMS

Tot Ion: 138 Resp: 322713
 Ion Ratio Lower Upper
 138 100
 92 52.9 35.7 75.7
 108 61.5 46.9 86.9

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#62

Azobenzene

Concen: 31.31 ng

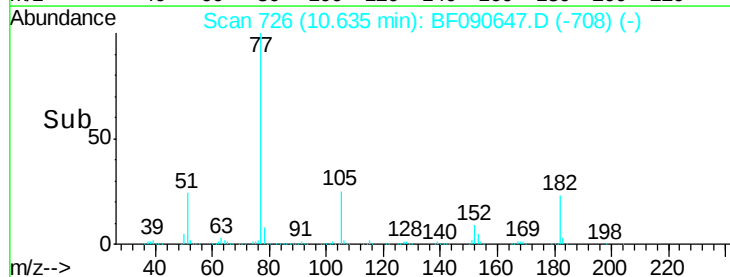
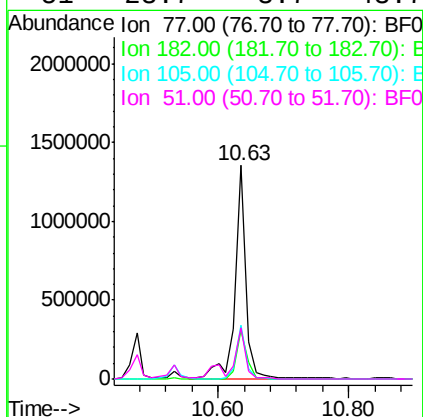
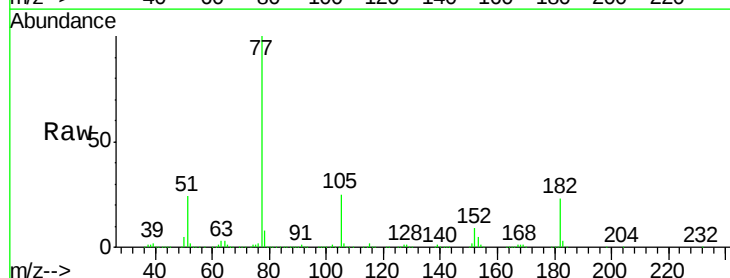
RT: 10.63 min Scan# 726

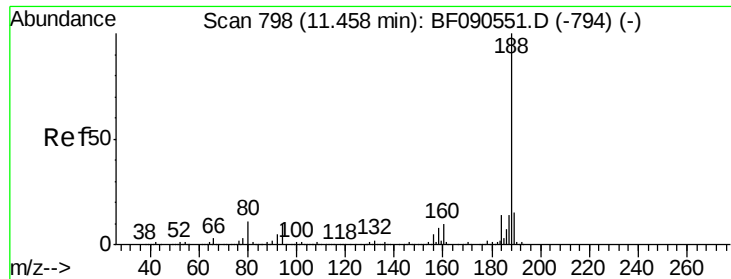
Delta R.T. 0.00 min

Lab File: BF090647.D

Acq: 19 Oct 2016 15:04

Tgt Ion: 77 Resp: 1520743
 Ion Ratio Lower Upper
 77 100
 182 22.7 2.2 42.2
 105 25.1 3.5 43.5
 51 23.7 3.7 43.7





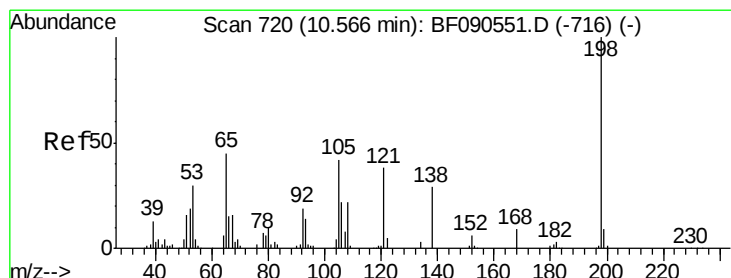
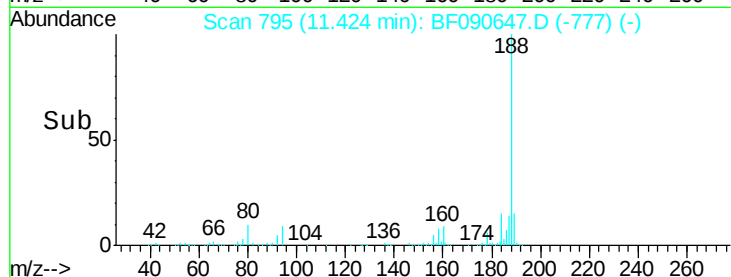
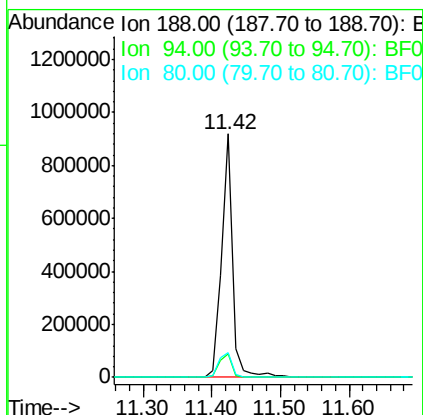
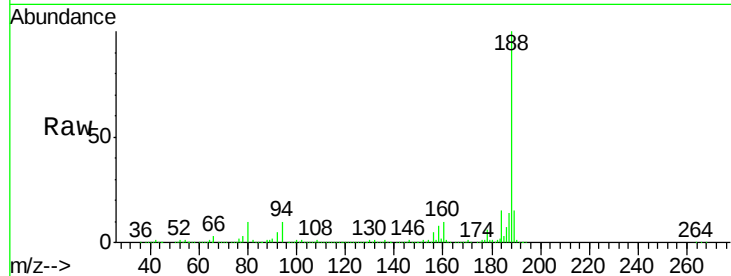
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.42 min Scan# 795
Delta R.T. 0.00 min
Lab File: BF090647.D
Acq: 19 Oct 2016 15:04

Instrument :
BNA_F
ClientSampleId :
SOIL-CUTTINGSMS

Tot Ion	Ratio	Lower	Upper
188	100		
94	9.5	7.7	11.5
80	10.4	8.6	12.8

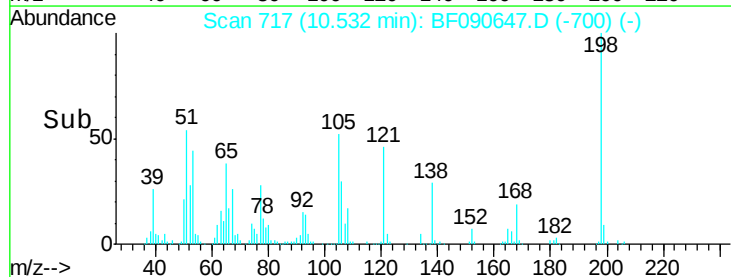
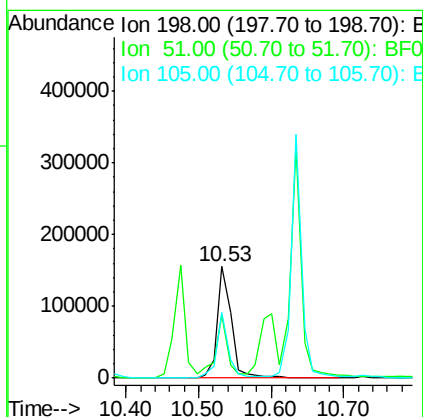
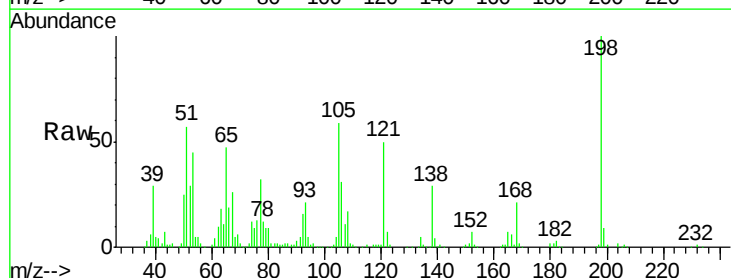
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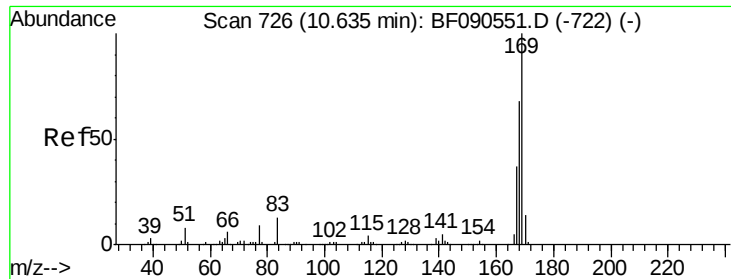
Sohil
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#64
4,6-Dinitro-2-methylphenol
Concen: 33.22 ng
RT: 10.53 min Scan# 717
Delta R.T. -0.01 min
Lab File: BF090647.D
Acq: 19 Oct 2016 15:04

Tgt Ion	Ratio	Lower	Upper
198	100		
51	56.8	19.7	59.7
105	59.0	22.6	62.6





#65

n-Nitrosodiphenylamine

Concen: 34.97 ng

RT: 10.60 min Scan# 723

Delta R.T. 0.00 min

Lab File: BF090647.D

Acq: 19 Oct 2016 15:04

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGSMS

Tot Ion:169 Resp: 1217207

Ion Ratio Lower Upper

169 100

168 68.4 54.6 81.8

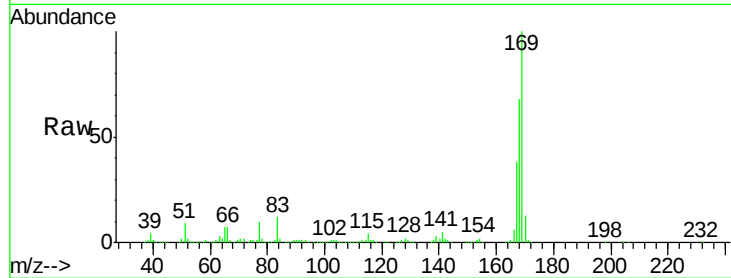
167 38.0 29.8 44.8

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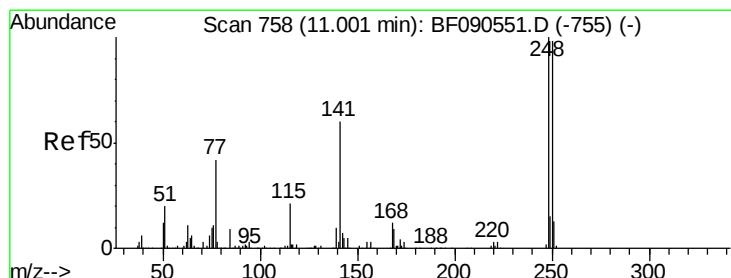
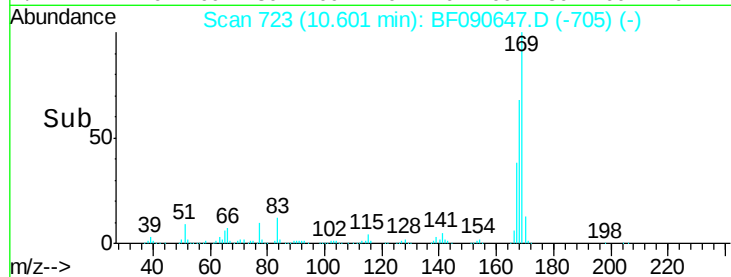
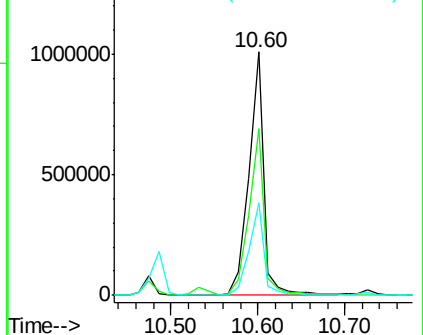
10/20/2016 10:36:47 AM



Abundance Ion 169.00 (168.70 to 169.70): E

Ion 168.00 (167.70 to 168.70): E

Ion 167.00 (166.70 to 167.70): E



#66

4-Bromophenyl-phenylether

Concen: 36.43 ng

RT: 10.97 min Scan# 755

Delta R.T. 0.00 min

Lab File: BF090647.D

Acq: 19 Oct 2016 15:04

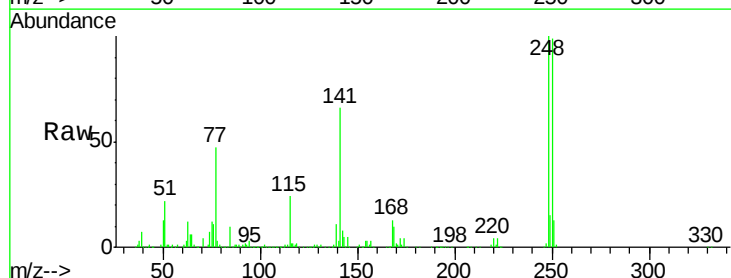
Tgt Ion:248 Resp: 411924

Ion Ratio Lower Upper

248 100

250 98.8 78.4 117.6

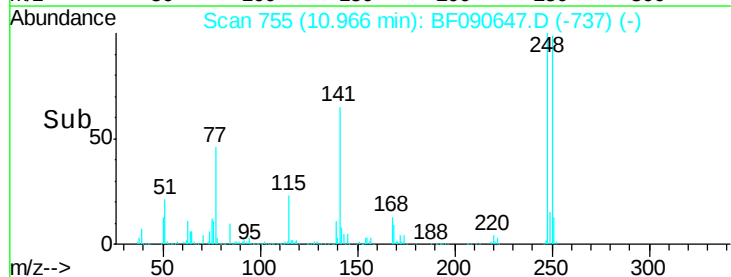
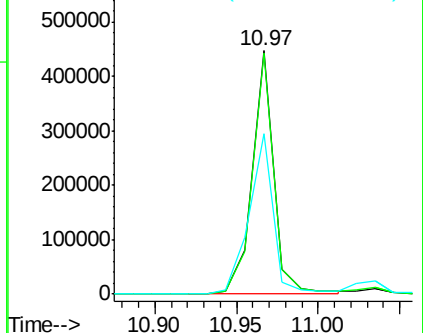
141 66.1 48.4 72.6

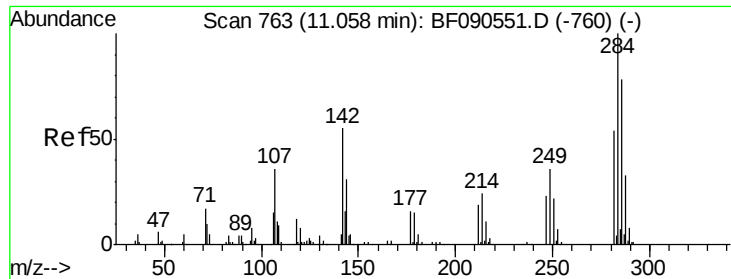


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#67

Hexachlorobenzene

Concen: 39.52 ng

RT: 11.03 min Scan# 761

Delta R.T. 0.00 min

Lab File: BF090647.D

Acq: 19 Oct 2016 15:04

Instrument :

BNA_F

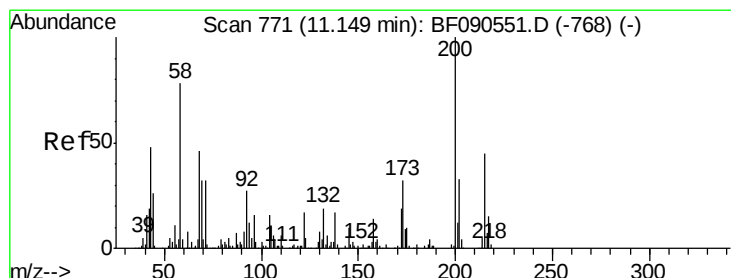
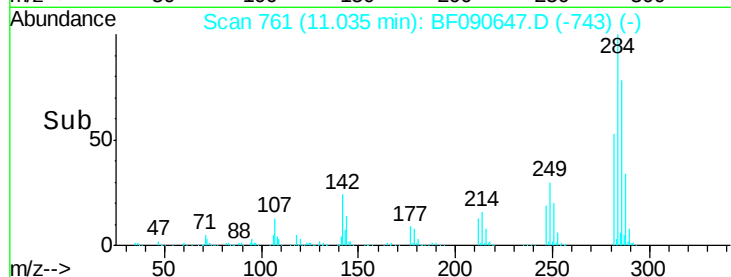
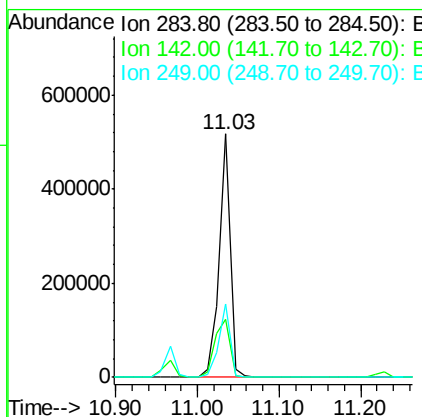
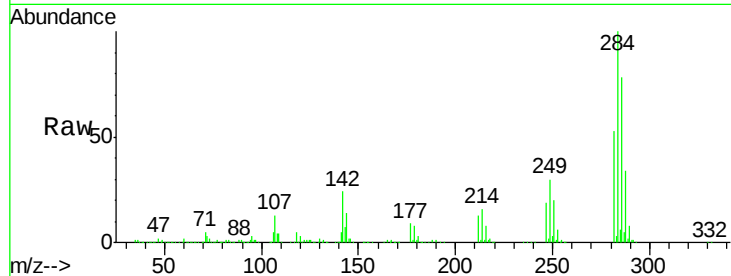
ClientSampleId :

SOIL-CUTTINGSMS

Tot Ion	Ratio	Resp	Lower	Upper
284	100	485155		
142	24.1	44.5	66.7#	
249	30.1	29.6	44.4	

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#68

Atrazine

Concen: 37.48 ng

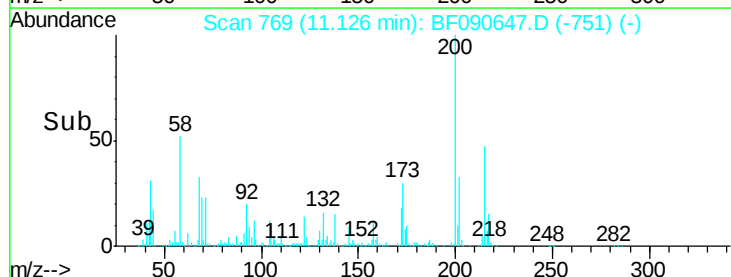
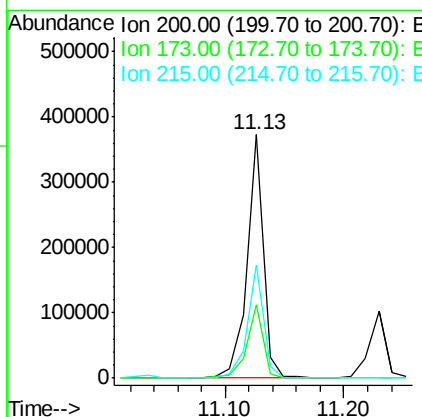
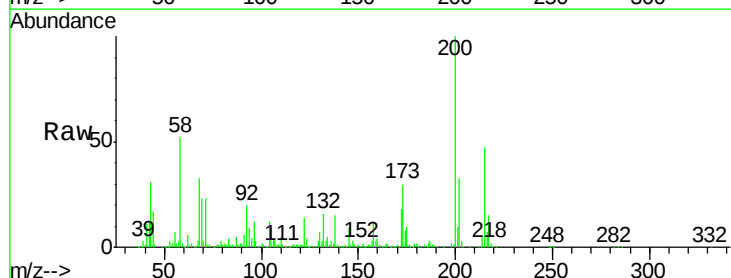
RT: 11.13 min Scan# 769

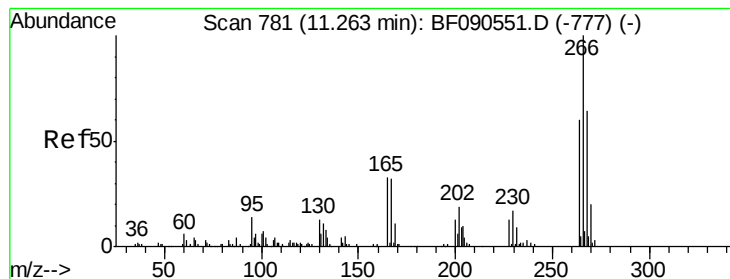
Delta R.T. 0.00 min

Lab File: BF090647.D

Acq: 19 Oct 2016 15:04

Tgt Ion	Ratio	Resp	Lower	Upper
200	100	360815		
173	30.0	12.0	52.0	
215	46.5	25.2	65.2	





#69

Pentachlorophenol

Concen: 86.40 ng

RT: 11.23 min Scan# 778

Delta R.T. 0.00 min

Lab File: BF090647.D

Acq: 19 Oct 2016 15:04

Instrument :

BNA_F

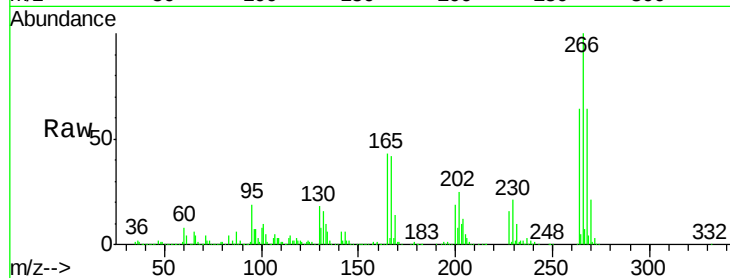
ClientSampleId :

SOIL-CUTTINGSMS

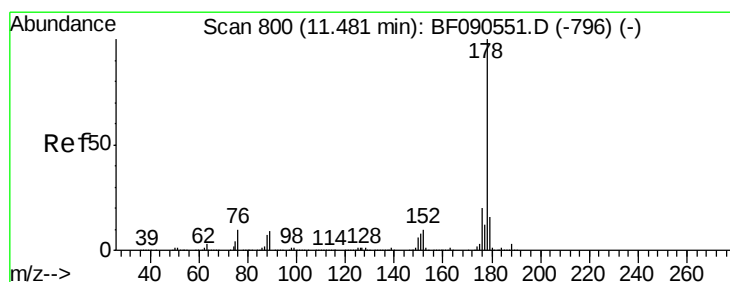
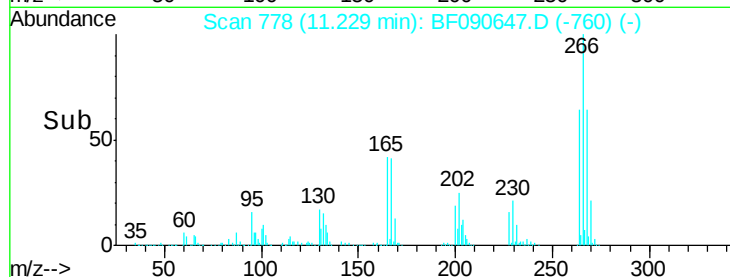
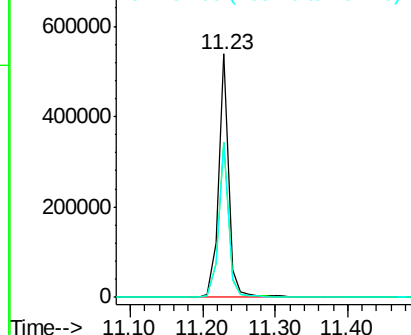
Tot Ion:	266	Resp:	525735
Ion Ratio		Lower	Upper
266	100		
268	63.9	51.5	77.3
264	63.6	47.9	71.9

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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: 33.37 ng

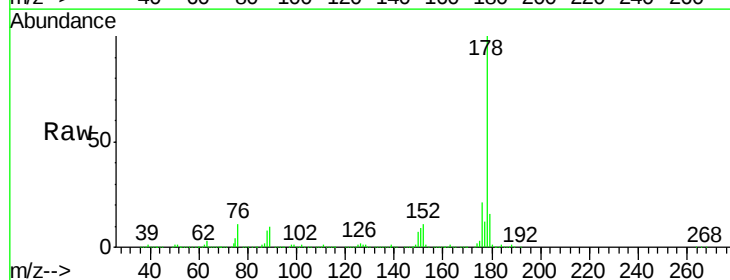
RT: 11.45 min Scan# 797

Delta R.T. 0.00 min

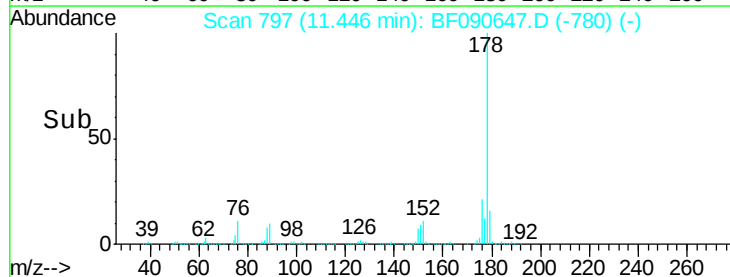
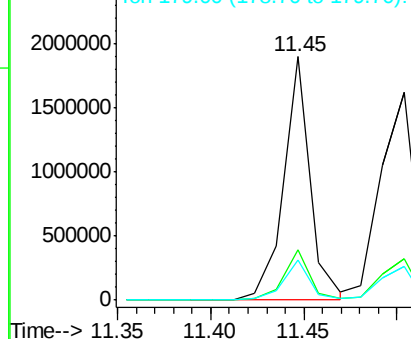
Lab File: BF090647.D

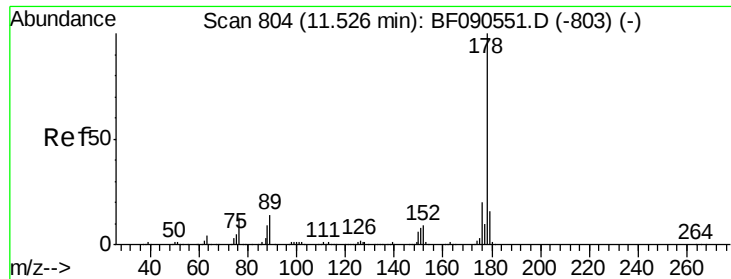
Acq: 19 Oct 2016 15:04

Tgt Ion:	178	Resp:	1877072
Ion Ratio		Lower	Upper
178	100		
176	20.8	16.1	24.1
179	16.4	12.6	19.0



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





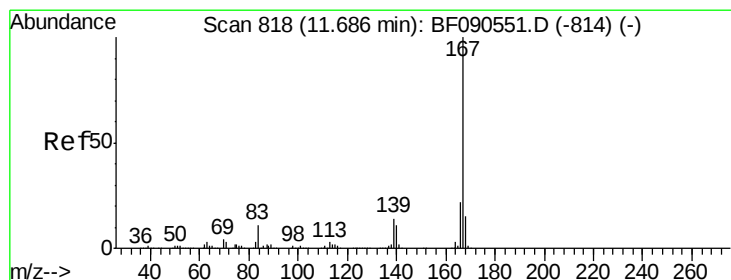
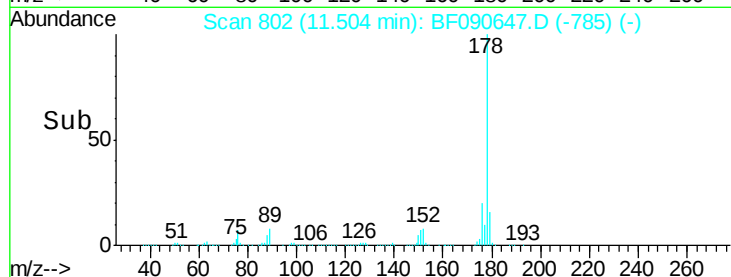
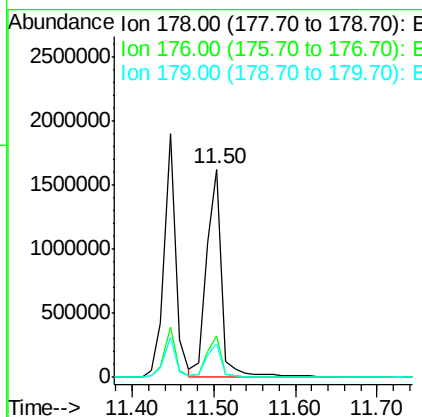
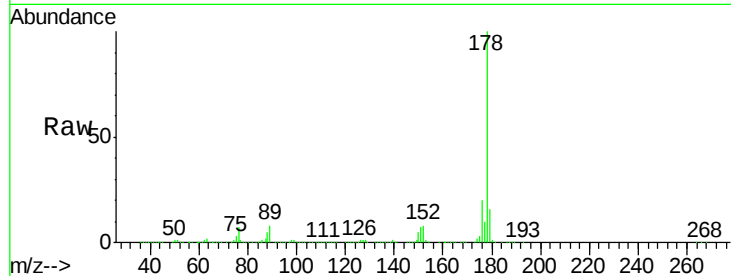
#71
 Anthracene
 Concen: 35.02 ng
 RT: 11.50 min Scan# 802
 Delta R.T. 0.00 min
 Lab File: BF090647.D
 Acq: 19 Oct 2016 15:04

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CUTTINGSMS

Tot Ion:178 Resp: 2120382
 Ion Ratio Lower Upper
 178 100
 176 19.8 15.5 23.3
 179 16.0 13.0 19.4

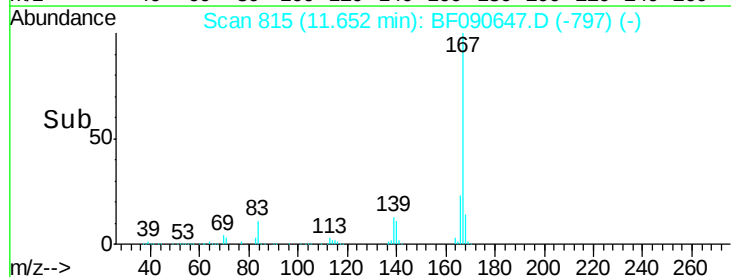
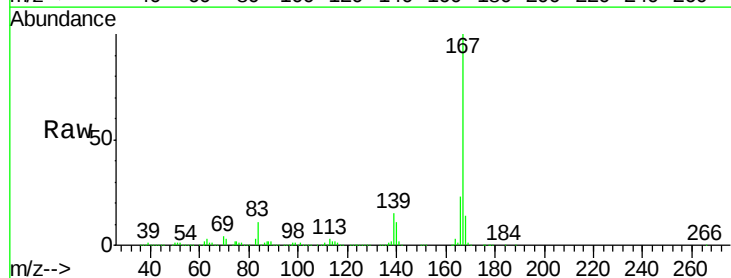
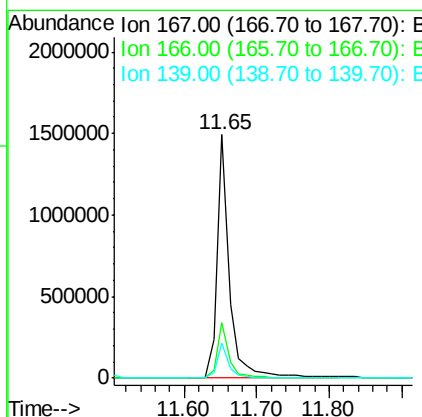
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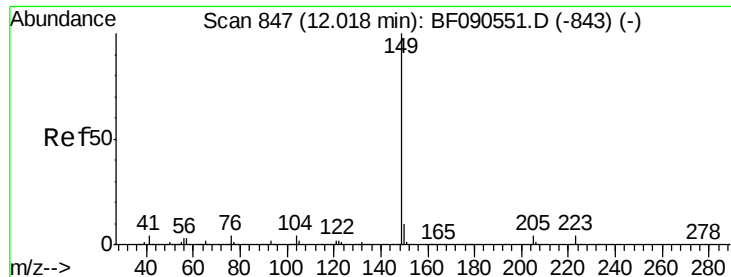
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#72
 Carbazole
 Concen: 32.75 ng
 RT: 11.65 min Scan# 815
 Delta R.T. 0.00 min
 Lab File: BF090647.D
 Acq: 19 Oct 2016 15:04

Tgt Ion:167 Resp: 1774800
 Ion Ratio Lower Upper
 167 100
 166 22.8 17.8 26.8
 139 14.6 11.3 16.9





#73

Di-n-butylphthalate

Concen: 35.21 ng

RT: 11.98 min Scan# 844

Delta R.T. 0.00 min

Lab File: BF090647.D

Acq: 19 Oct 2016 15:04

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGSMS

Tot Ion:149 Resp: 2235803

Ion Ratio Lower Upper

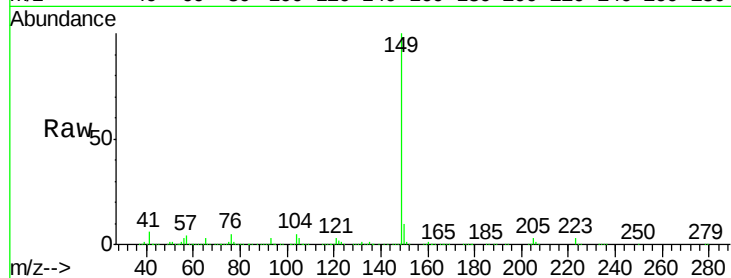
149 100

150 10.5 7.8 11.6

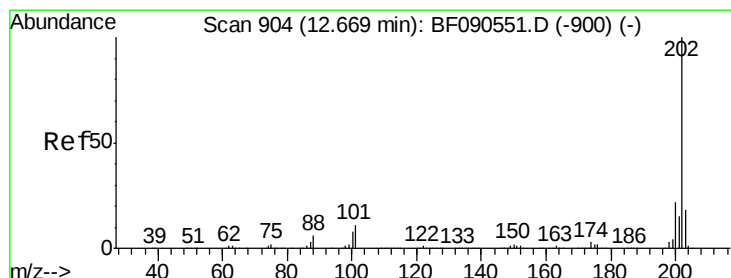
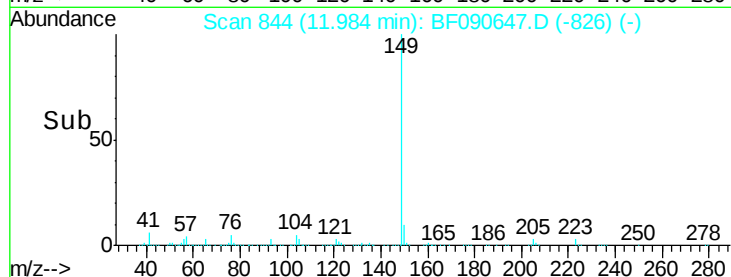
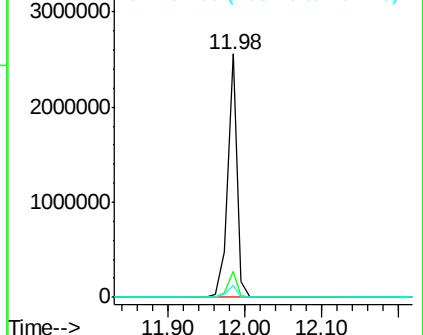
104 5.1 3.3 4.9#

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Abundance Ion 149.00 (148.70 to 149.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 104.00 (103.70 to 104.70): E



#74

Fluoranthene

Concen: 36.43 ng

RT: 12.64 min Scan# 901

Delta R.T. 0.00 min

Lab File: BF090647.D

Acq: 19 Oct 2016 15:04

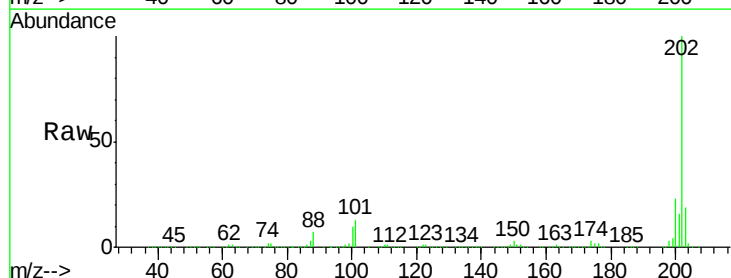
Tgt Ion:202 Resp: 2061528

Ion Ratio Lower Upper

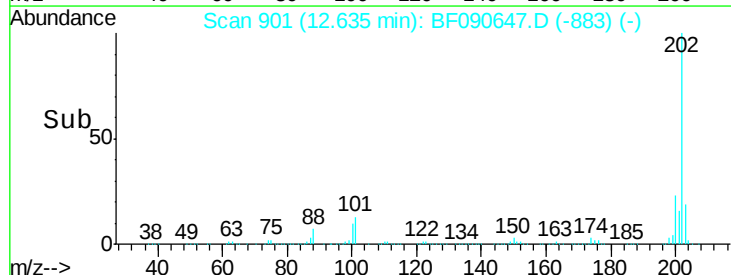
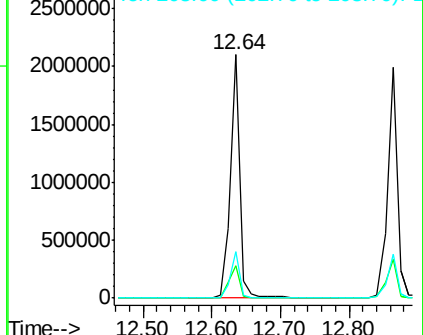
202 100

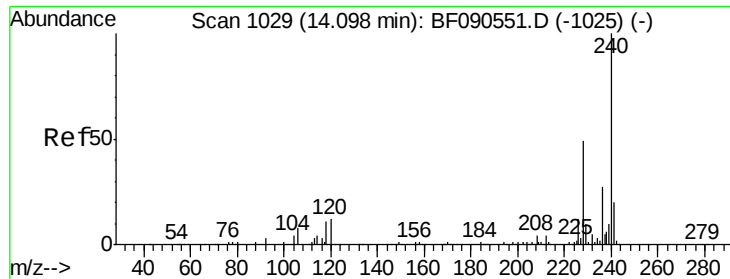
101 13.1 0.0 31.1

203 19.0 0.0 38.0



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





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.06 min Scan# 1026

Delta R.T. 0.00 min

Lab File: BF090647.D

Acq: 19 Oct 2016 15:04

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGSMS

Tot Ion:240 Resp: 905875

Ion Ratio Lower Upper

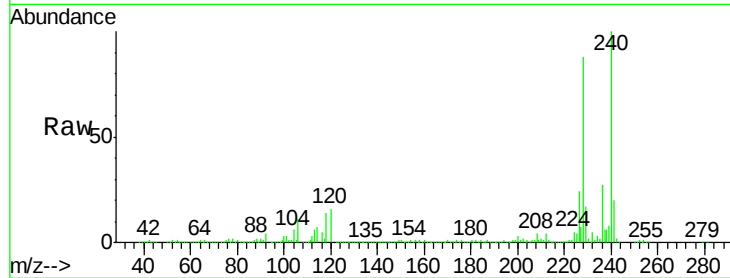
240 100

120 16.0 9.8 14.8#

236 27.0 21.7 32.5

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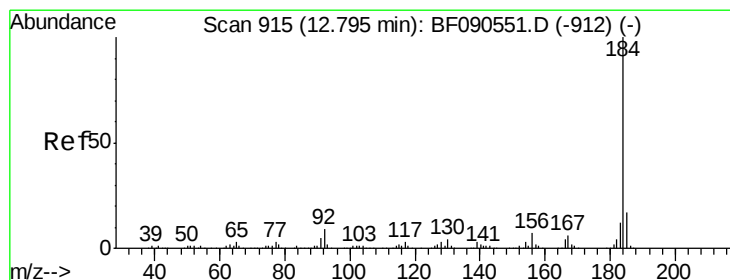
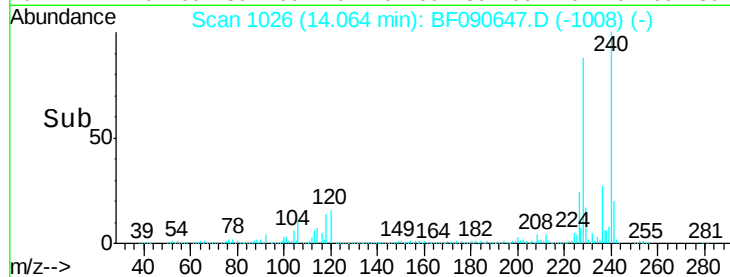
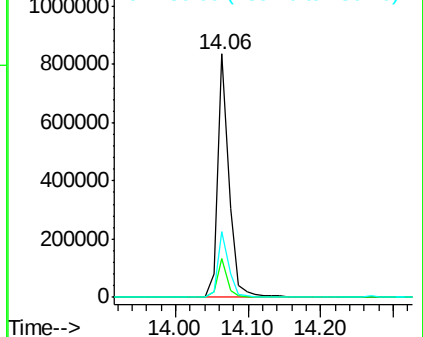
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Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#76

Benzidine

Concen: 23.34 ng

RT: 12.76 min Scan# 912

Delta R.T. 0.00 min

Lab File: BF090647.D

Acq: 19 Oct 2016 15:04

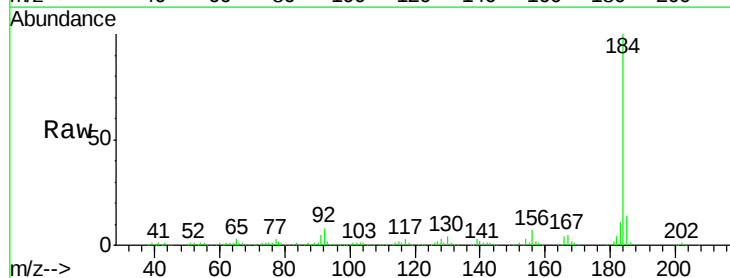
Tgt Ion:184 Resp: 526059

Ion Ratio Lower Upper

184 100

185 13.9 13.4 20.0

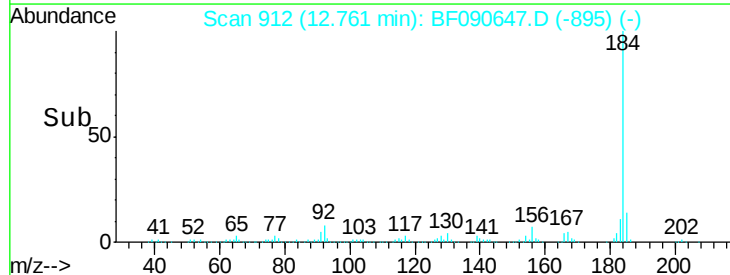
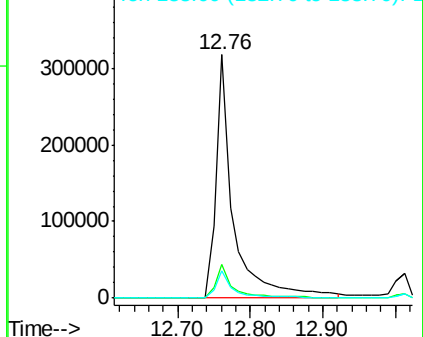
183 11.4 9.4 14.0

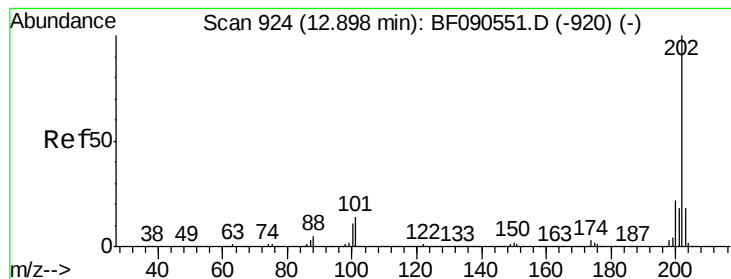


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





#77

Pvrene

Concen: 32.94 ng

RT: 12.86 min Scan# 921

Delta R.T. 0.00 min

Lab File: BF090647.D

Acq: 19 Oct 2016 15:04

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGSMS

Tot Ion:202 Resp: 1976026

Ion Ratio Lower Upper

202 100

200 22.6 17.8 26.6

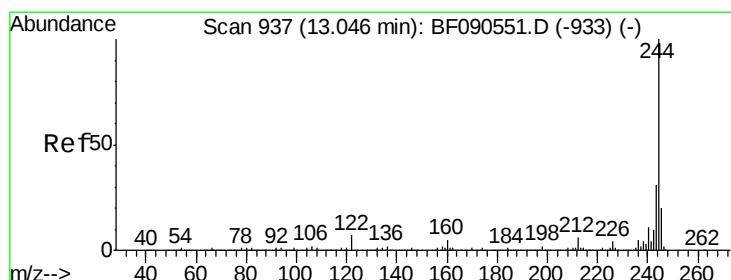
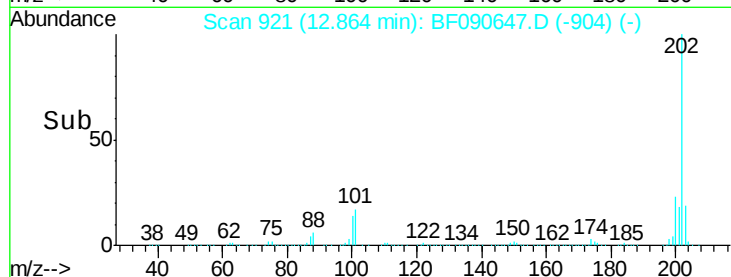
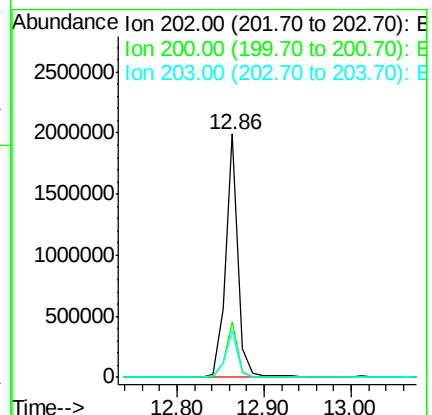
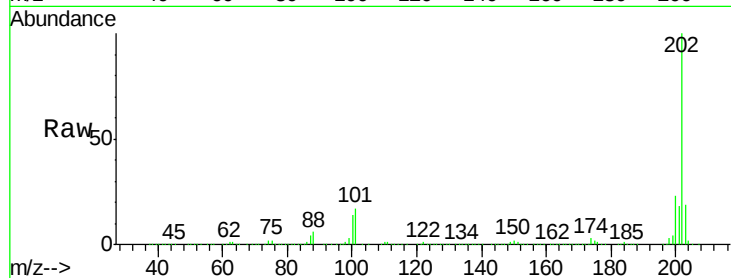
203 18.8 14.6 21.8

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#78

Terphenyl-d14

Concen: 72.39 ng

RT: 13.01 min Scan# 934

Delta R.T. 0.00 min

Lab File: BF090647.D

Acq: 19 Oct 2016 15:04

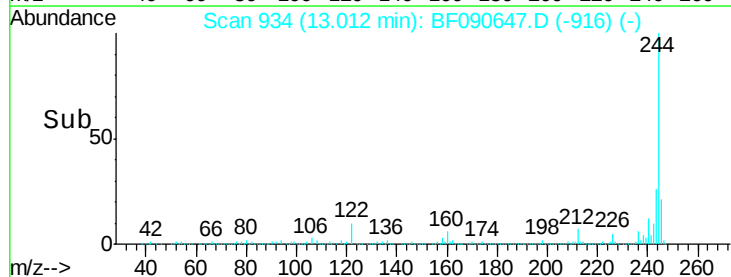
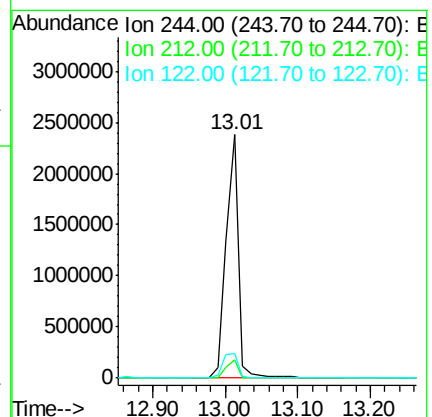
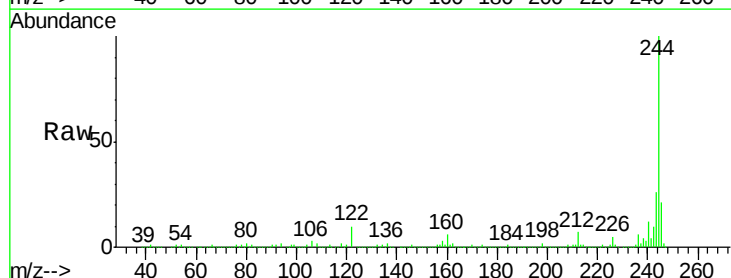
Tgt Ion:244 Resp: 2816439

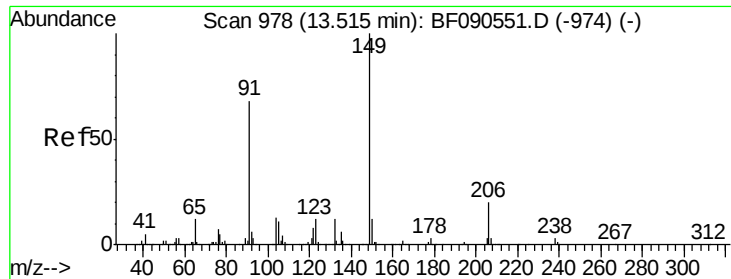
Ion Ratio Lower Upper

244 100

212 7.3 5.0 7.4

122 10.3 5.6 8.4#





#79

Butylbenzylphthalate

Concen: 36.15 ng

RT: 13.48 min Scan# 975

Delta R.T. 0.00 min

Lab File: BF090647.D

Acq: 19 Oct 2016 15:04

Instrument :

BNA_F

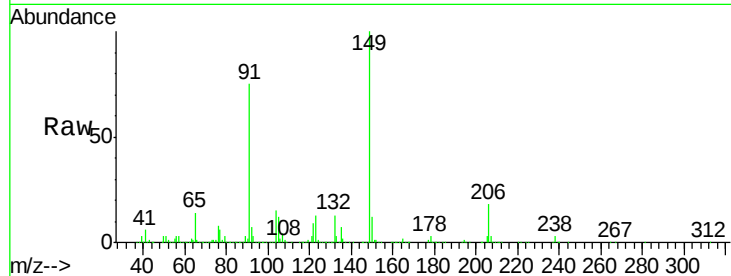
ClientSampleId :

SOIL-CUTTINGSMS

Tot Ion:	149	Resp:	960939
Ion Ratio	Lower	Upper	
149	100		
91	75.1	54.3	81.5
206	17.9	15.8	23.6

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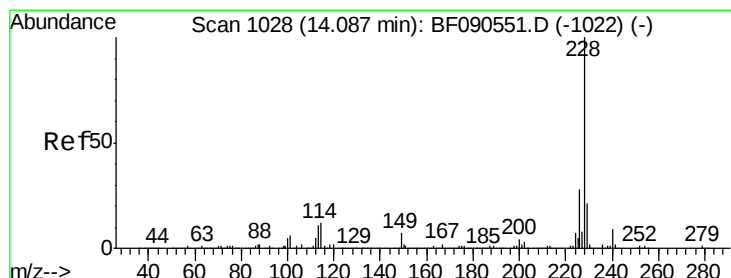
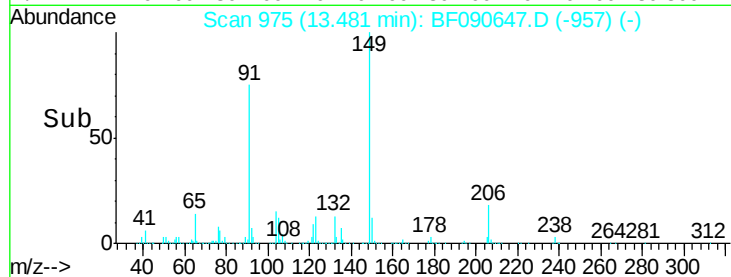
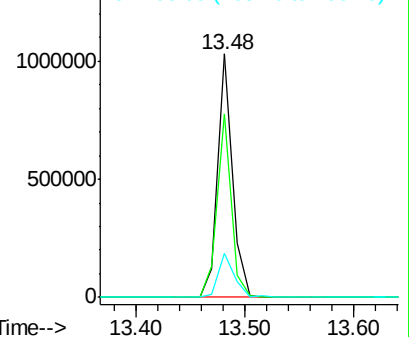
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Abundance Ion 149.00 (148.70 to 149.70): E

Ion 91.00 (90.70 to 91.70): BF0

Ion 206.00 (205.70 to 206.70): E



#80

Benzo(a)anthracene

Concen: 35.70 ng

RT: 14.05 min Scan# 1025

Delta R.T. 0.00 min

Lab File: BF090647.D

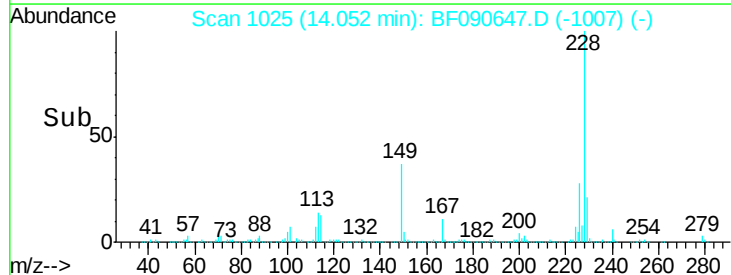
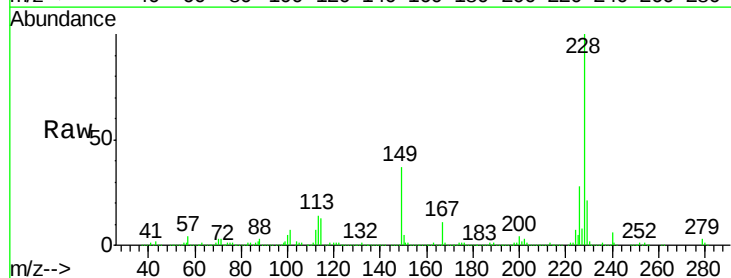
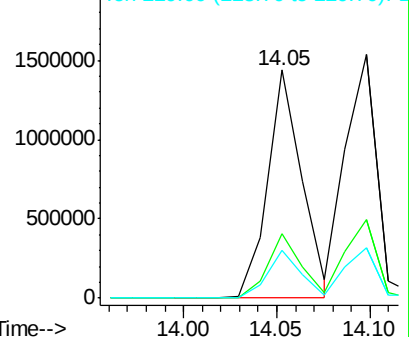
Acq: 19 Oct 2016 15:04

Tgt Ion:	228	Resp:	1840927
Ion Ratio	Lower	Upper	
228	100		
226	28.3	22.8	34.2
229	20.8	16.6	25.0

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





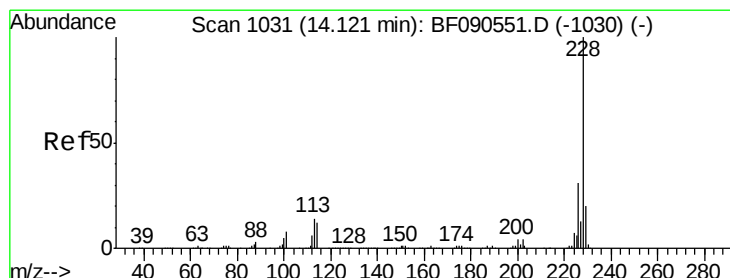
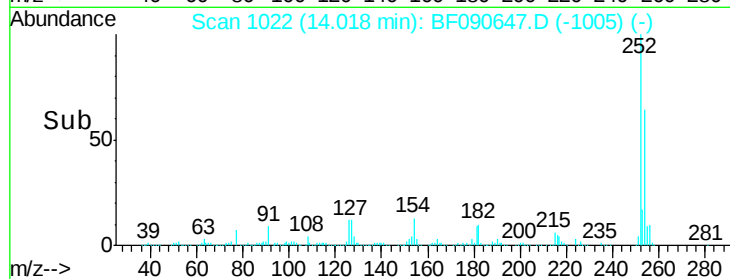
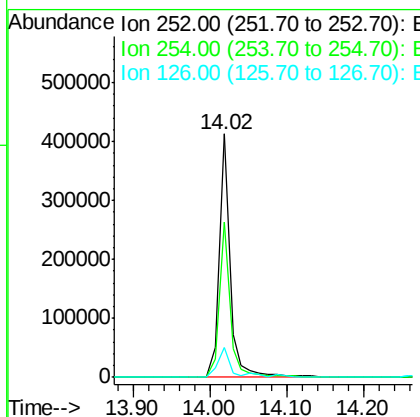
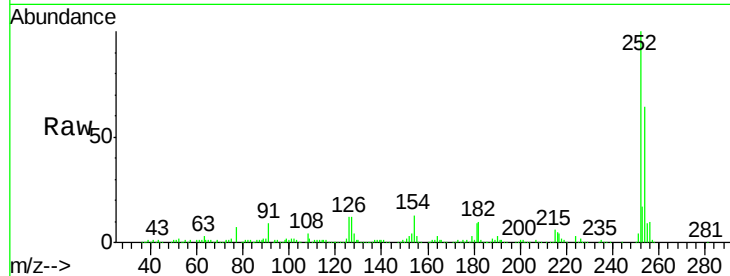
#81
 3,3'-Dichlorobenzidine
 Concen: 23.47 ng
 RT: 14.02 min Scan# 1022
 Delta R.T. 0.00 min
 Lab File: BF090647.D
 Acq: 19 Oct 2016 15:04

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CUTTINGSMS

Tot Ion	Ratio	Lower	Upper
252	100		
254	64.0	52.1	78.1
126	12.2	9.3	13.9

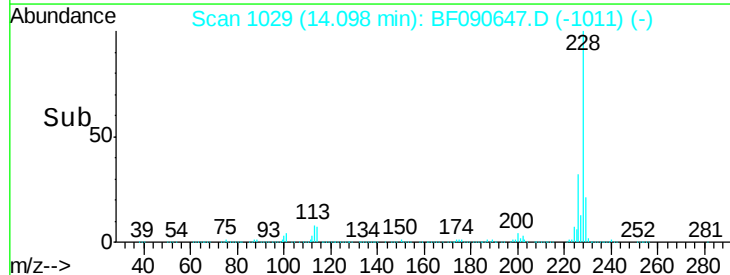
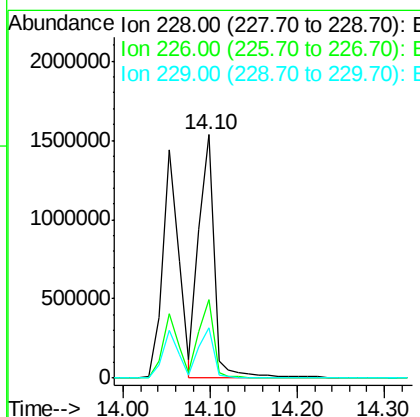
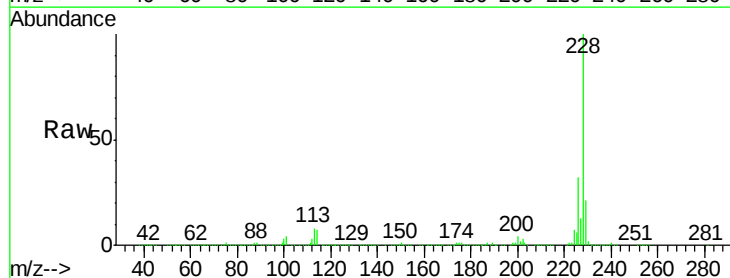
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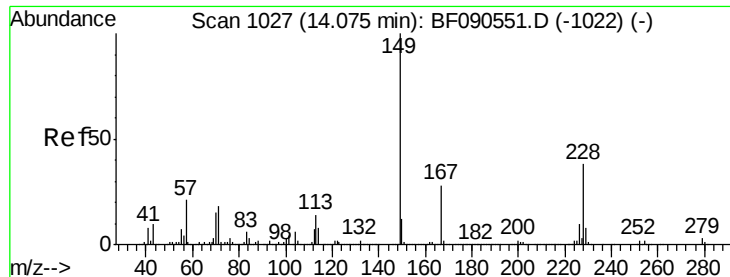
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#82
 Chrysene
 Concen: 37.62 ng
 RT: 14.10 min Scan# 1029
 Delta R.T. 0.00 min
 Lab File: BF090647.D
 Acq: 19 Oct 2016 15:04

Tgt Ion	Ratio	Lower	Upper
228	100		
226	32.0	24.8	37.2
229	20.7	16.2	24.4





#83

Bis(2-ethylhexyl)phthalate

Concen: 37.89 ng

RT: 14.04 min Scan# 1024

Delta R.T. 0.00 min

Lab File: BF090647.D

Acq: 19 Oct 2016 15:04

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGSMS

Tot Ion:149 Resp: 1358834

Ion Ratio Lower Upper

149 100

167 26.9 22.1 33.1

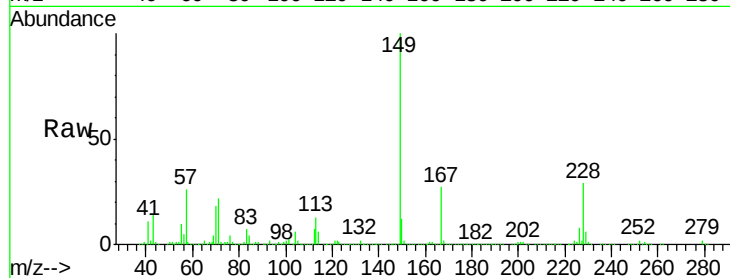
279 2.5 2.6 4.0#

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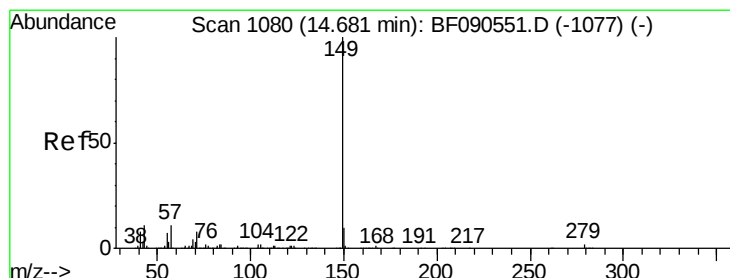
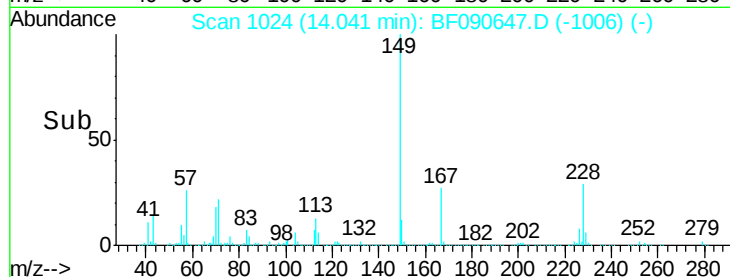
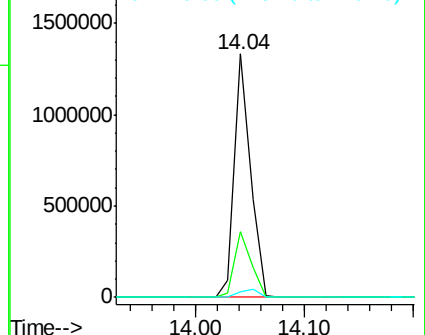
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Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#84

Di-n-octyl phthalate

Concen: 49.46 ng

RT: 14.66 min Scan# 1078

Delta R.T. 0.00 min

Lab File: BF090647.D

Acq: 19 Oct 2016 15:04

Tgt Ion:149 Resp: 2378127

Ion Ratio Lower Upper

149 100

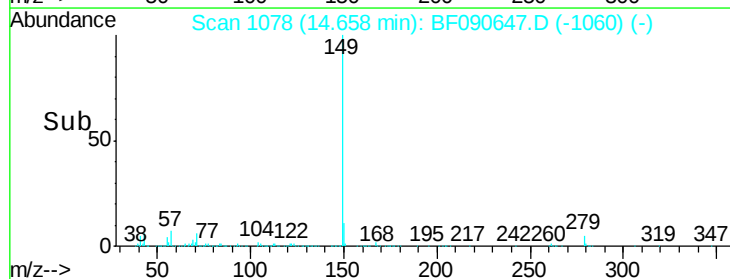
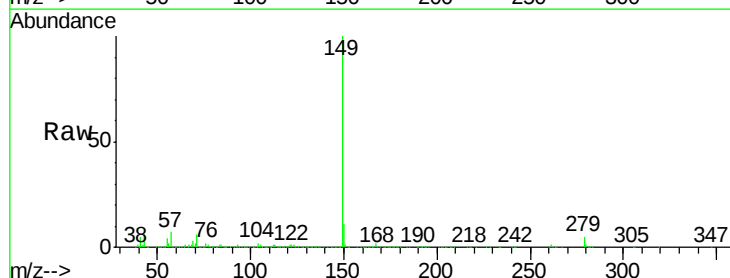
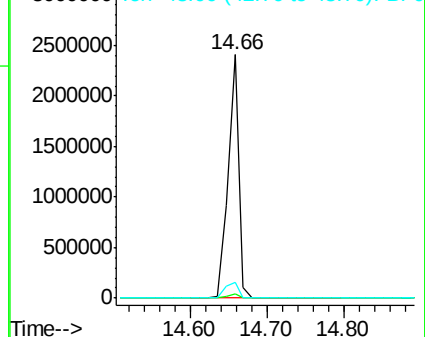
167 1.7 1.2 1.8

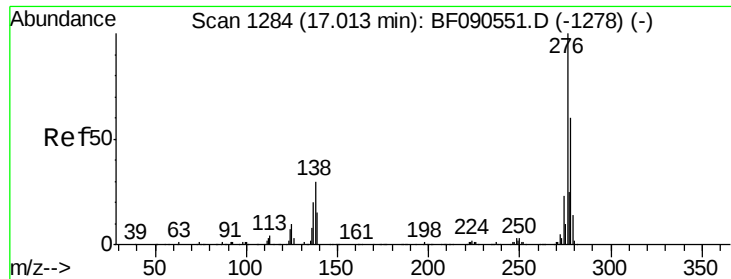
43 7.8 6.7 10.1

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): BF0





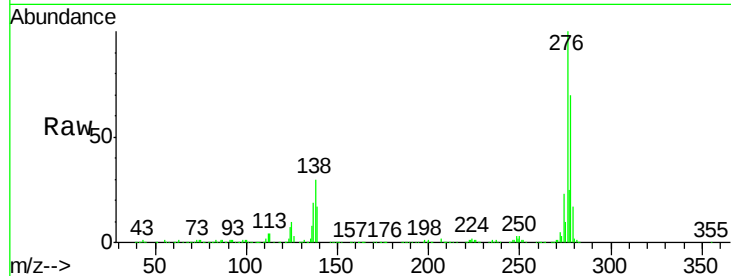
#85
Indeno(1,2,3-cd)pyrene
Concen: 43.91 ng
RT: 16.96 min Scan# 1279
Delta R.T. 0.00 min
Lab File: BF090647.D
Acq: 19 Oct 2016 15:04

Instrument :
BNA_F
ClientSampleId :
SOIL-CUTTINGSMS

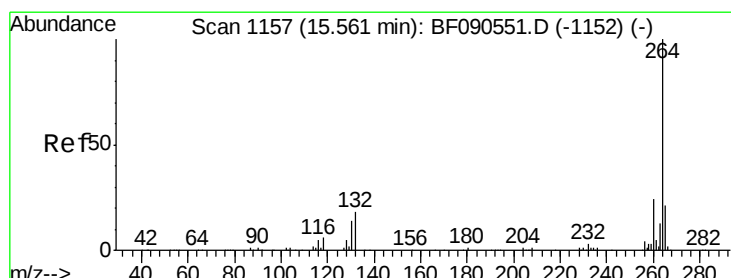
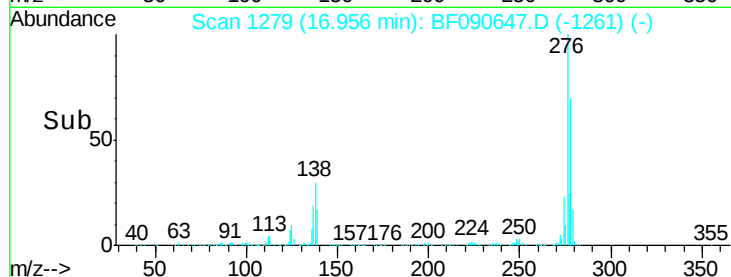
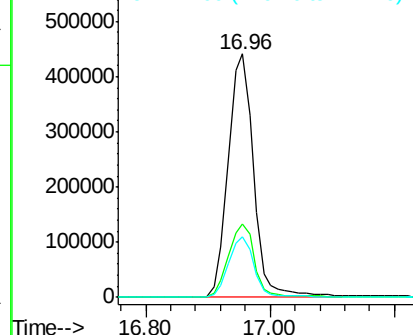
Tot Ion	Ratio	Lower	Upper
276	100		
138	31.2	25.8	38.6
277	25.0	20.1	30.1

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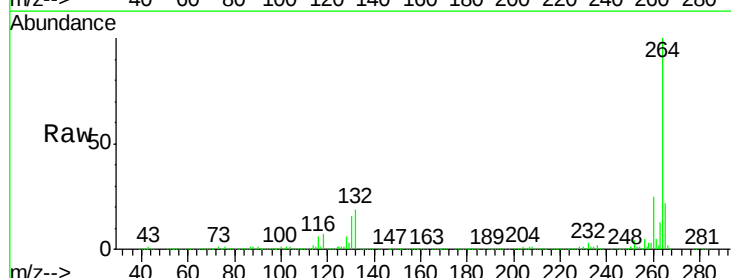


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

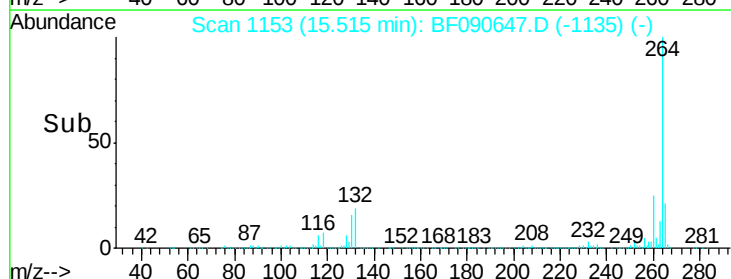
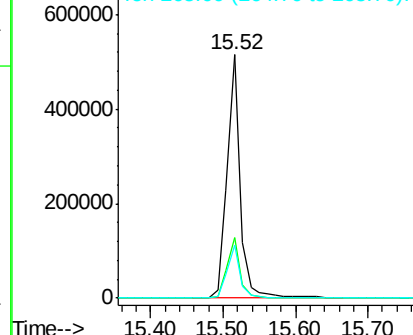


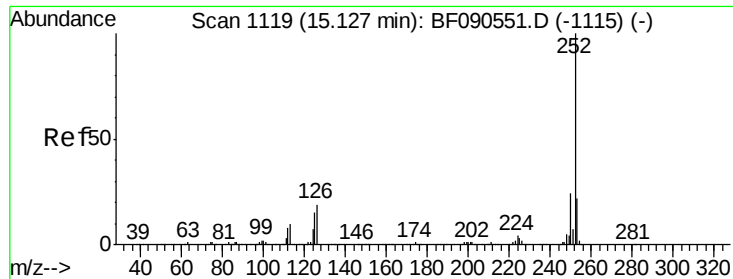
#86
Perylene-d12
Concen: 20.00 ng
RT: 15.52 min Scan# 1153
Delta R.T. 0.00 min
Lab File: BF090647.D
Acq: 19 Oct 2016 15:04

Tgt Ion	Ratio	Lower	Upper
264	100		
260	25.1	19.3	28.9
265	21.5	16.7	25.1



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: 43.18 ng m

RT: 15.09 min Scan# 1116

Delta R.T. 0.00 min

Lab File: BF090647.D

Acq: 19 Oct 2016 15:04

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGSMS

Tot Ion:252 Resp: 1842415

Ion Ratio Lower Upper

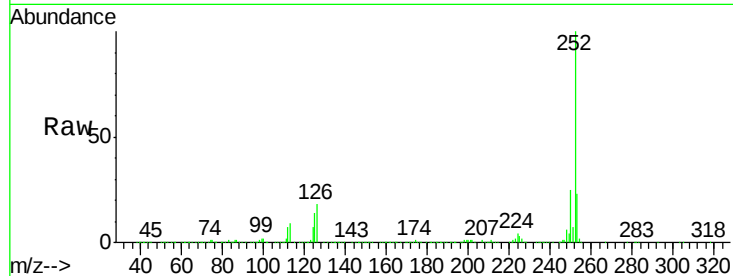
252 100

253 23.1 17.8 26.8

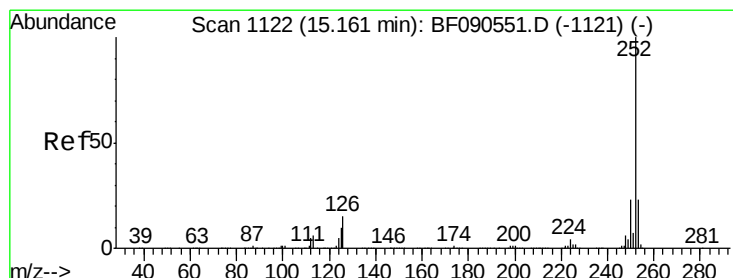
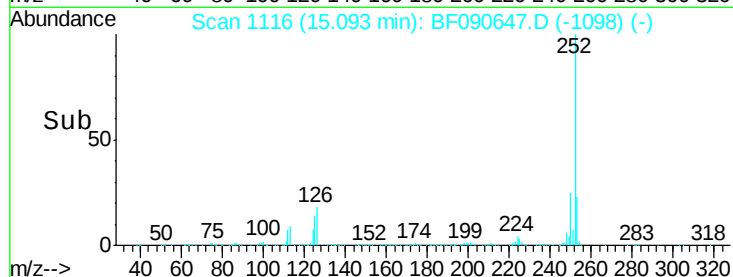
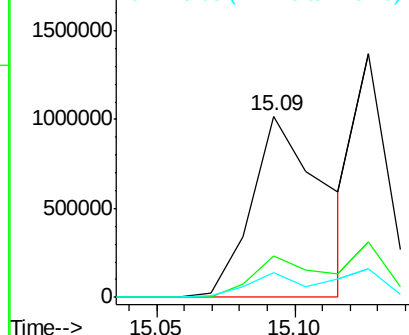
125 13.7 12.0 18.0

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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



#88

Benzo(k)fluoranthene

Concen: 27.14 ng m

RT: 15.13 min Scan# 1119

Delta R.T. 0.00 min

Lab File: BF090647.D

Acq: 19 Oct 2016 15:04

Tgt Ion:252 Resp: 1246040

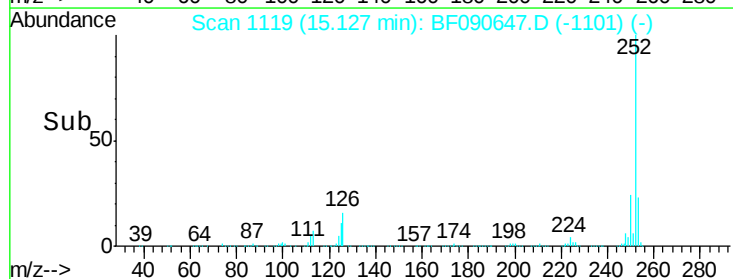
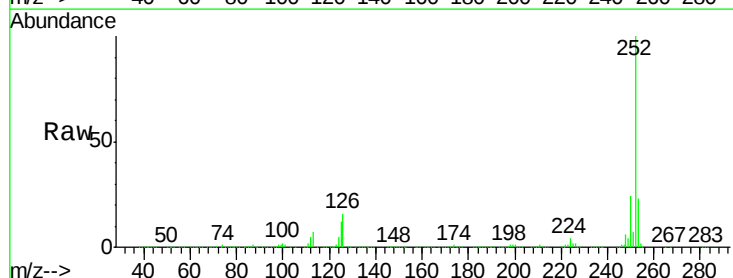
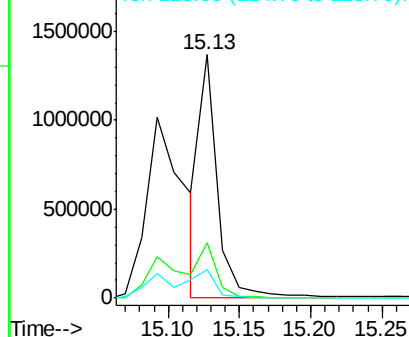
Ion Ratio Lower Upper

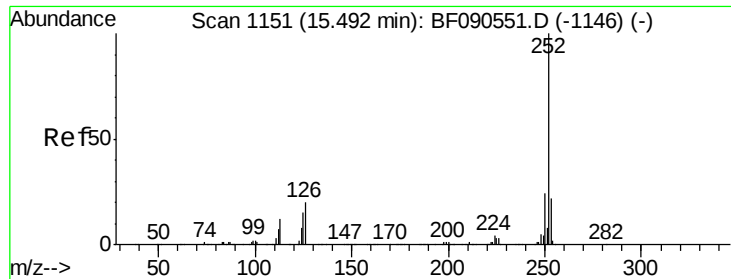
252 100

253 22.9 18.0 27.0

125 11.5 10.0 15.0

Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





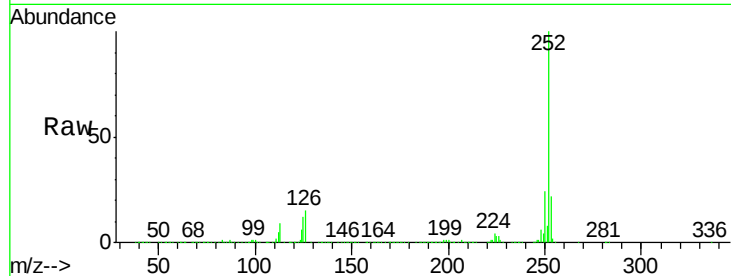
#89
Benzo(a)pyrene
Concen: 35.83 ng
RT: 15.46 min Scan# 1148
Delta R.T. 0.00 min
Lab File: BF090647.D
Acq: 19 Oct 2016 15:04

Instrument :
BNA_F
ClientSampleId :
SOIL-CUTTINGSMS

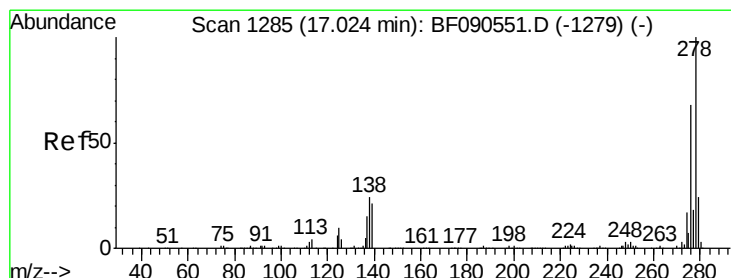
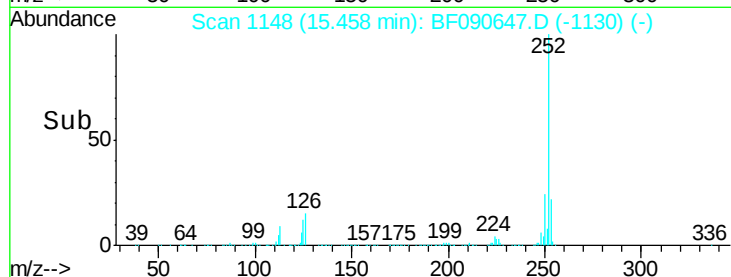
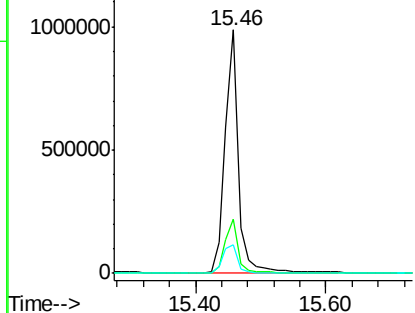
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.9	26.9
125	11.6	12.3	18.5#

Manual Integrations
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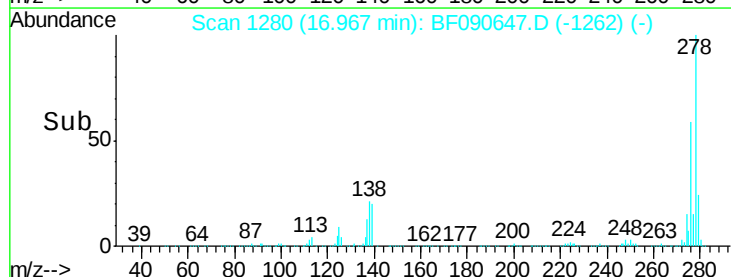
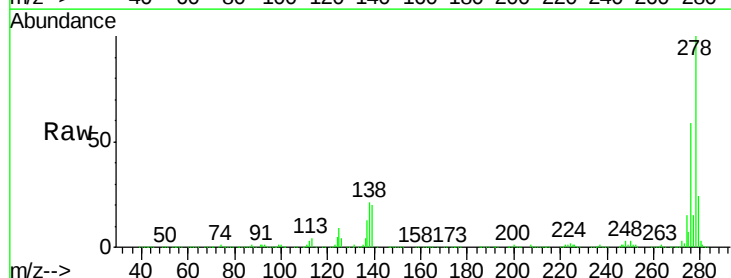
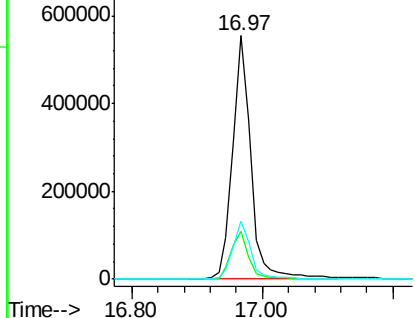
Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

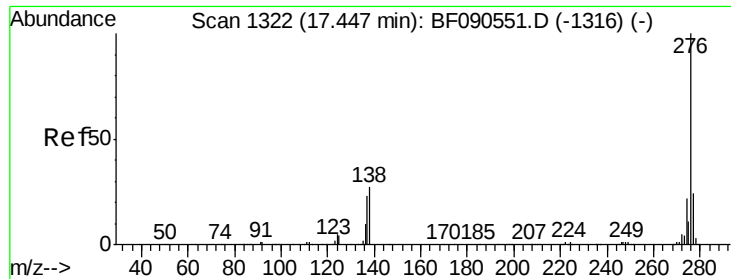


#90
Dibenzo(a,h)anthracene
Concen: 35.97 ng
RT: 16.97 min Scan# 1280
Delta R.T. 0.00 min
Lab File: BF090647.D
Acq: 19 Oct 2016 15:04

Tgt Ion	Ratio	Lower	Upper
278	100		
139	19.7	16.6	25.0
279	24.0	19.1	28.7

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(a,h,i)perylene
 Concen: 35.28 ng
 RT: 17.38 min Scan# 1316
 Delta R.T. -0.01 min
 Lab File: BF090647.D
 Acq: 19 Oct 2016 15:04

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CUTTINGSMS

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.1	18.8	28.2
138	29.2	21.8	32.8

Manual Integrations
 APPROVED

Sohil
 10/20/2016 10:36:47 AM

