

Data Path : Z:\HPCHEM1\BNA F\DATA\BF100516\
 Data File : BF090384.D
 Acq On : 5 Oct 2016 16:30
 Operator : UM/SJ
 Sample : H4818-01
 Misc : LOD 1PPM
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 LOD-SOIL2016-01-QT4

Manual Integrations
 APPROVED

Quant Time: Oct 06 01:31:45 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF100516.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 05 14:57:00 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.00	152	245556	20.00	ng	0.00
21) Naphthalene-d8	8.29	136	1036203	20.00	ng	0.00
38) Acenaphthene-d10	10.05	164	529974	20.00	ng	0.00
63) Phenanthrene-d10	11.54	188	812768	20.00	ng	-0.01
75) Chrysene-d12	14.19	240	665167	20.00	ng	-0.01
86) Perylene-d12	15.70	264	481589	20.00	ng	0.00

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System Monitoring Compounds

5) 2-Fluorophenol	5.62	112	2158273	131.18	ng	0.01
7) Phenol-d6	6.62	99	2442918	113.37	ng	0.00
23) Nitrobenzene-d5	7.56	82	1676749	78.71	ng	-0.01
41) 2,4,6-Tribromophenol	10.84	330	562498	130.53	ng	-0.01
44) 2-Fluorobiphenyl	9.37	172	2693523	84.68	ng	-0.01
78) Terphenyl-d14	13.14	244	2580981	87.23	ng	0.00

10/6/2016 5:27:31 PM

Target Compounds

						Qvalue
2) 1,4-Dioxane	2.84	88	8466m	1.04	ng	
3) Pyridine	3.65	79	22446m	0.99	ng	
4) n-Nitrosodimethylamine	3.55	42	10162m	1.09	ng	
6) Aniline	6.66	93	26894	0.90	ng	98
8) 2-Chlorophenol	6.78	128	21624	1.19	ng	90
9) Benzaldehyde	6.54	77	11051	1.01	ng	92
10) Phenol	6.63	94	33395	1.33	ng	# 58
11) bis(2-Chloroethyl)ether	6.73	93	18056	0.94	ng	# 80
12) 1,3-Dichlorobenzene	6.94	146	17007	0.94	ng	# 95
13) 1,4-Dichlorobenzene	7.01	146	16858	0.92	ng	95
14) 1,2-Dichlorobenzene	7.17	146	18742	1.06	ng	96
15) Benzyl Alcohol	7.16	79	45869	2.80	ng	# 42
16) 2,2'-oxybis(1-Chloropropan	7.27	45	32425	1.00	ng	95
17) 2-Methylphenol	7.24	107	13814	0.93	ng	96
18) Hexachloroethane	7.51	117	6264	0.87	ng	# 85
19) n-Nitroso-di-n-propylamine	7.40	70	15652	0.99	ng	# 89
20) 3+4-Methylphenols	7.40	107	19843	1.03	ng	# 53
22) Acetophenone	7.40	105	25258	1.03	ng	# 93
24) Nitrobenzene	7.57	77	24976	1.18	ng	# 86
25) Isophorone	7.81	82	37269	0.96	ng	# 93
26) 2-Nitrophenol	7.90	139	6669	0.73	ng	# 90
27) 2,4-Dimethylphenol	7.93	122	15630m	0.88	ng	
28) bis(2-Chloroethoxy)methane	8.03	93	24265	1.05	ng	# 94
29) 2,4-Dichlorophenol	8.14	162	12087	0.90	ng	93
30) 1,2,4-Trichlorobenzene	8.22	180	12453	0.90	ng	99
31) Naphthalene	8.31	128	49458	0.99	ng	98
32) Benzoic acid	7.97	122	7993m	0.65	ng	
33) 4-Chloroaniline	8.35	127	17797	0.86	ng	92
34) Hexachlorobutadiene	8.43	225	6213	0.80	ng	94
35) Caprolactam	8.67	113	3779	0.84	ng	# 77
36) 4-Chloro-3-methylphenol	8.83	107	16235	0.96	ng	99
37) 2-Methylnaphthalene	9.00	142	28972	0.96	ng	99
39) 1,2,4,5-Tetrachlorobenzene	9.17	216	12707	0.91	ng	# 95
40) Hexachlorocyclopentadiene	9.16	237	5267	0.69	ng	97

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Manual Integrations
 APPROVED

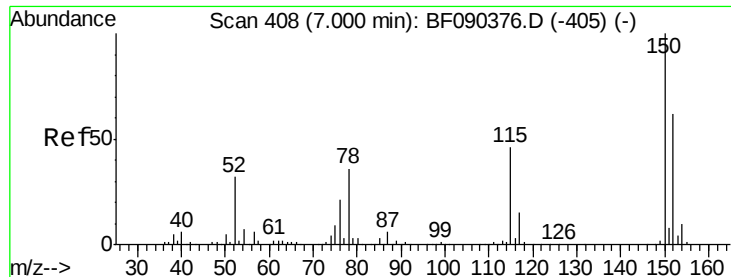
Quant Time: Oct 06 01:31:45 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF100516.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 05 14:57:00 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)	
42) 2,4,6-Trichlorophenol	9.27	196	7948	0.82	nq		94
43) 2,4,5-Trichlorophenol	9.32	196	6957	0.76	nq	#	89
45) 1,1'-Biphenyl	9.47	154	41577	1.06	nq		94
46) 2-Chloronaphthalene	9.49	162	28886	1.00	nq		98
47) 2-Nitroaniline	9.58	65	9942	0.87	nq		99
48) Acenaphthylene	9.91	152	45092	0.94	nq	#	93
49) Dimethylphthalate	9.75	163	31202	0.92	nq		99
50) 2,6-Dinitrotoluene	9.82	165	6240	0.83	nq		88
51) Acenaphthene	10.09	154	28770	0.96	nq		98
52) 3-Nitroaniline	9.98	138	6854	0.78	nq	#	67
54) Dibenzofuran	10.26	168	37607	0.97	nq		99
55) 4-Nitrophenol	10.14	139	5384	0.70	nq		91
56) 2,4-Dinitrotoluene	10.22	165	7849	0.78	nq	#	34
57) Fluorene	10.60	166	32178	0.99	nq		98
58) 2,3,4,6-Tetrachlorophenol	10.37	232	5172	0.76	nq	#	81
59) Diethylphthalate	10.46	149	34280	0.98	nq	#	90
60) 4-Chlorophenyl-phenylether	10.59	204	13785	0.93	nq	#	88
61) 4-Nitroaniline	10.60	138	6333	0.71	nq		97
62) Azobenzene	10.75	77	38615	0.95	nq		86
64) 4,6-Dinitro-2-methylphenol	10.63	198	1481	5.68	nq		84
65) n-Nitrosodiphenylamine	10.70	169	26233	0.96	nq		96
66) 4-Bromophenyl-phenylether	11.08	248	7281	0.91	nq	#	75
67) Hexachlorobenzene	11.15	284	8749	0.99	nq	#	87
68) Atrazine	11.23	200	6419	0.96	nq		98
69) Pentachlorophenol	11.34	266	3311	0.63	nq		91
70) Phenanthrene	11.56	178	44152	1.06	nq		96
71) Anthracene	11.62	178	45185	1.06	nq		95
72) Carbazole	11.77	167	44543	1.13	nq		95
73) Di-n-butylphthalate	12.10	149	50062	1.04	nq		97
74) Fluoranthene	12.76	202	39863	0.98	nq		92
76) Benzidine	12.88	184	61998	3.54	nq		99
77) Pyrene	12.99	202	43112	0.97	nq		96
79) Butylbenzylphthalate	13.61	149	20284	0.89	nq	#	76
80) Benzo(a)anthracene	14.18	228	39189	1.05	nq		96
81) 3,3'-Dichlorobenzidine	14.14	252	11189	0.83	nq	#	97
82) Chrysene	14.21	228	33948	0.99	nq		96
83) Bis(2-ethylhexyl)phthalate	14.18	149	28520	0.88	nq	#	98
84) Di-n-octyl phthalate	14.80	149	43916	0.92	nq	#	99
85) Indeno(1,2,3-cd)pyrene	17.21	276	21202	0.87	nq	#	94
87) Benzo(b)fluoranthene	15.25	252	28505	0.93	nq	#	96
88) Benzo(k)fluoranthene	15.28	252	25427m	0.88	nq		
89) Benzo(a)pyrene	15.63	252	23543	0.89	nq		97
90) Dibenzo(a,h)anthracene	17.23	278	17403	0.77	nq		95
91) Benzo(g,h,i)perylene	17.65	276	16591	0.77	nq		95

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



#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.00 min Scan# 408

Delta R.T. -0.00 min

Lab File: BF090384.D

Acq: 5 Oct 2016 16:30

Instrument :

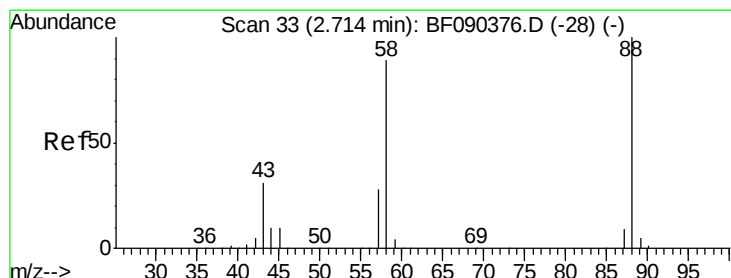
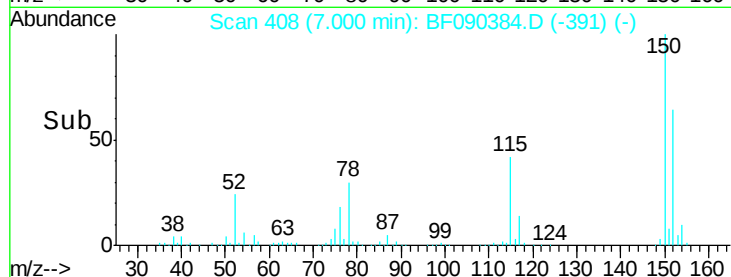
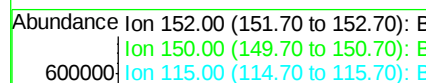
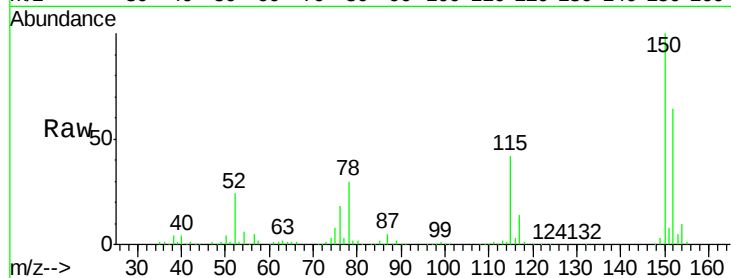
BNA_F

ClientSampleId :

LOD-SOIL2016-01-QT4

Tot Ion:	152	Resp:	245556
Ion Ratio	Lower	Upper	
152	100		
150	157.2	124.6	186.8
115	66.2	46.2	69.4

Manual Integrations
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#2

1,4-Dioxane

Concen: 1.04 ng m

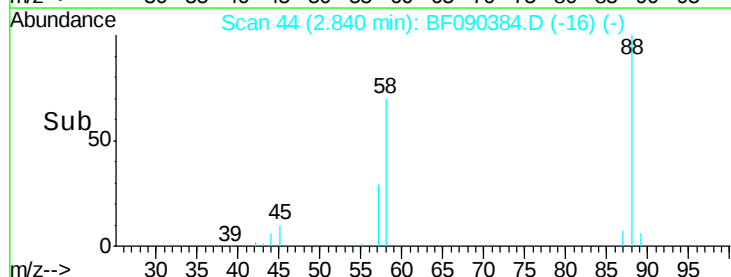
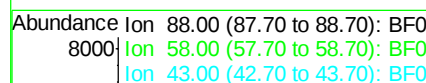
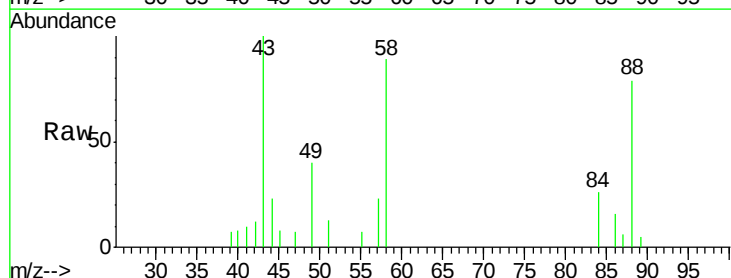
RT: 2.84 min Scan# 44

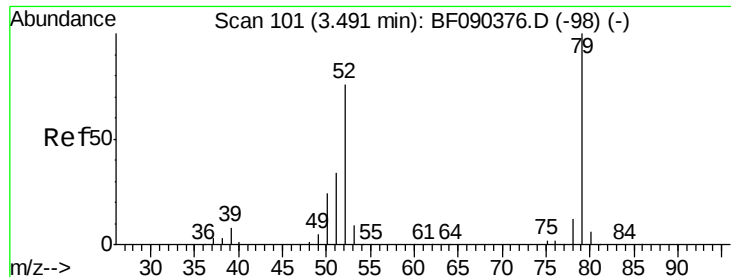
Delta R.T. 0.13 min

Lab File: BF090384.D

Acq: 5 Oct 2016 16:30

Tgt Ion:	88	Resp:	8466
Ion Ratio	Lower	Upper	
88	100		
58	72.0	71.2	106.8
43	24.2	29.8	44.6#





#3

Pvridine

Concen: 0.99 ng m

RT: 3.65 min Scan# 115

Delta R.T. 0.16 min

Lab File: BF090384.D

Acq: 5 Oct 2016 16:30

Instrument :

BNA_F

ClientSampleId :

LOD-SOIL2016-01-QT4

Tot Ion: 79 Resp: 22446

Ion Ratio Lower Upper

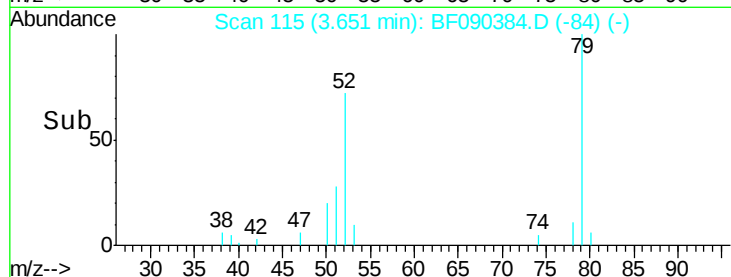
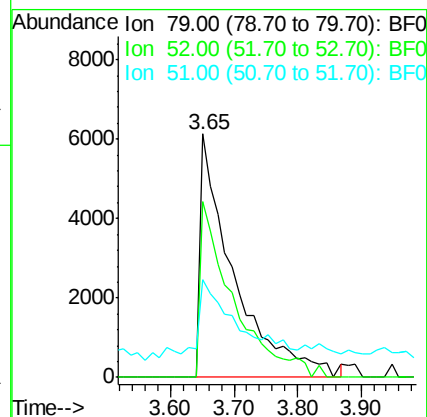
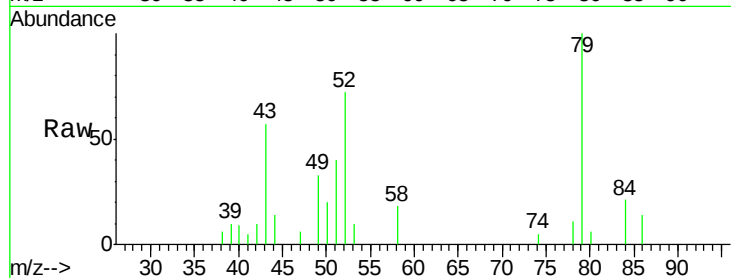
79 100

52 72.3 71.3 106.9

51 40.1 34.5 51.7

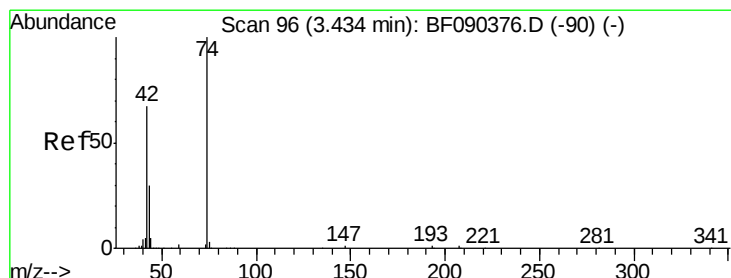
Manual Integrations

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#4

n-Nitrosodimethylamine

Concen: 1.09 ng m

RT: 3.55 min Scan# 106

Delta R.T. 0.11 min

Lab File: BF090384.D

Acq: 5 Oct 2016 16:30

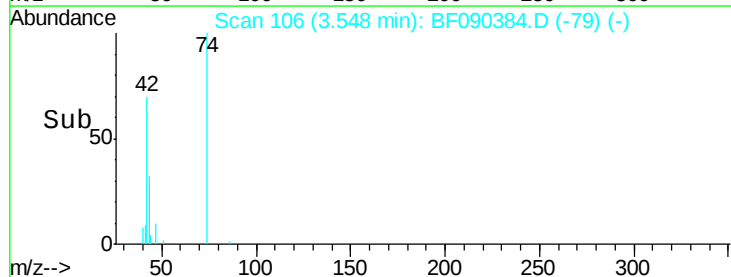
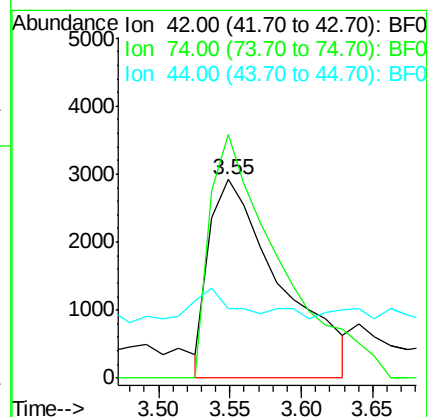
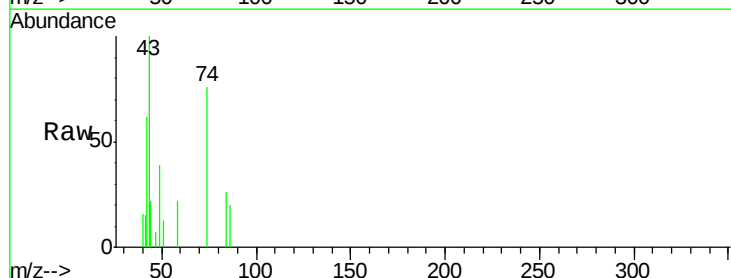
Tgt Ion: 42 Resp: 10162

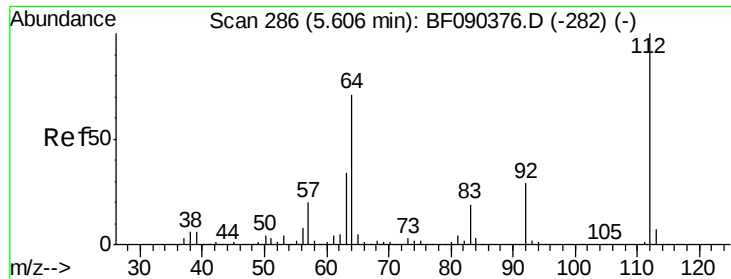
Ion Ratio Lower Upper

42 100

74 122.5 88.9 133.3

44 34.8 6.5 9.7#





#5

2-Fluorophenol

Concen: 131.18 ng

RT: 5.62 min Scan# 287

Delta R.T. 0.01 min

Lab File: BF090384.D

Acq: 5 Oct 2016 16:30

Instrument :

BNA_F

ClientSampleId :

LOD-SOIL2016-01-QT4

Tot Ion: 112 Resp: 2158273

Ion Ratio Lower Upper

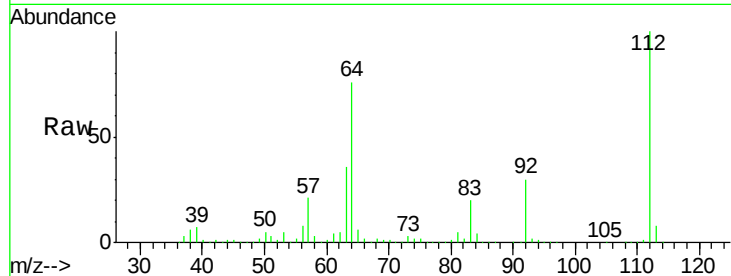
112 100

64 75.6 57.9 86.9

63 36.3 29.6 44.4

Manual Integrations

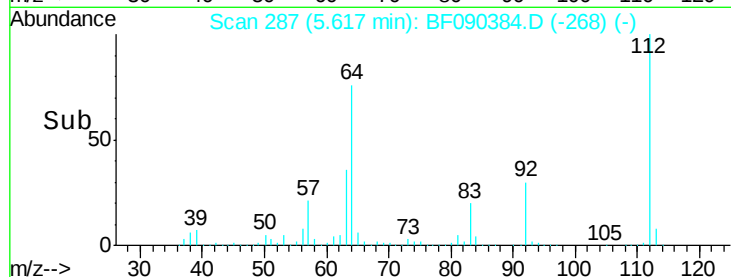
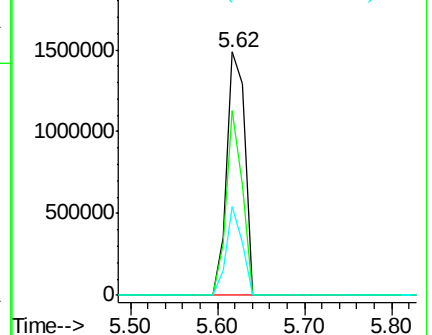
APPROVED



Abundance Ion 112.00 (111.70 to 112.70): E

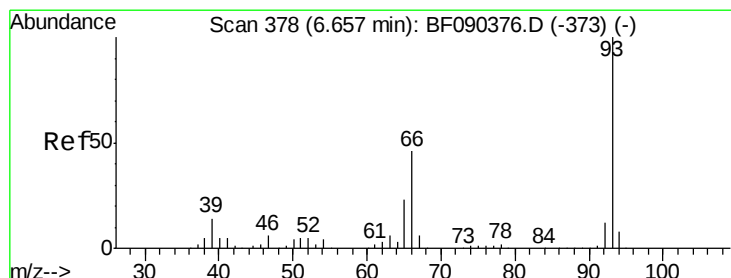
Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0



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#6

Aniline

Concen: 0.90 ng

RT: 6.66 min Scan# 378

Delta R.T. -0.00 min

Lab File: BF090384.D

Acq: 5 Oct 2016 16:30

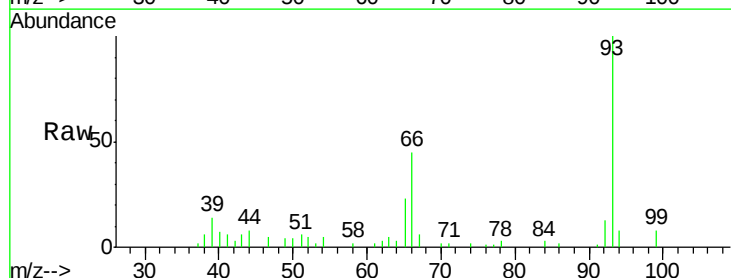
Tgt Ion: 93 Resp: 26894

Ion Ratio Lower Upper

93 100

66 45.3 34.5 51.7

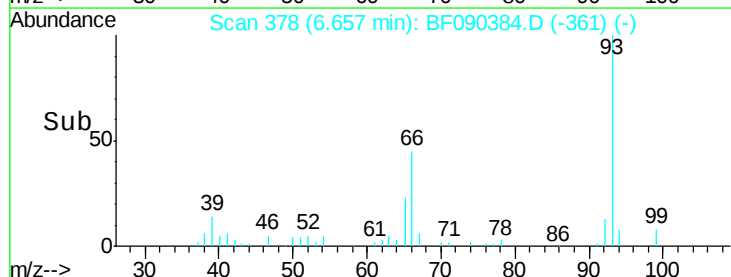
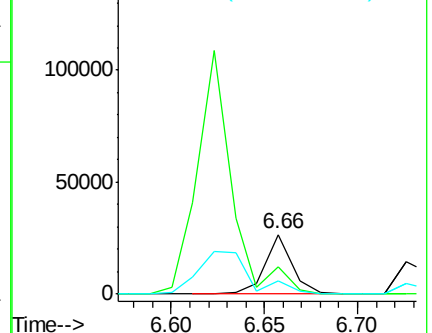
65 22.6 18.2 27.2

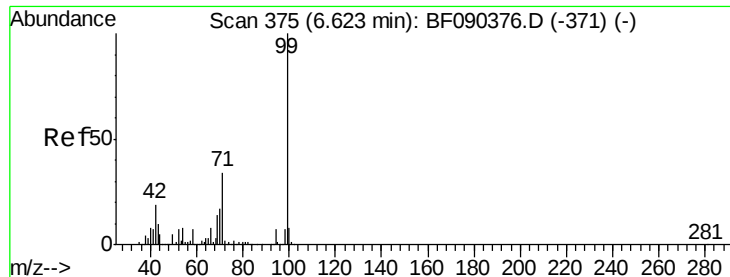


Abundance Ion 93.00 (92.70 to 93.70): BF0

Ion 66.00 (65.70 to 66.70): BF0

Ion 65.00 (64.70 to 65.70): BF0





#7

Phenol-d6

Concen: 113.37 ng

RT: 6.62 min Scan# 375

Delta R.T. -0.00 min

Lab File: BF090384.D

Acq: 5 Oct 2016 16:30

Instrument :

BNA_F

ClientSampleId :

LOD-SOIL2016-01-QT4

Tot Ion: 99 Resp: 2442918

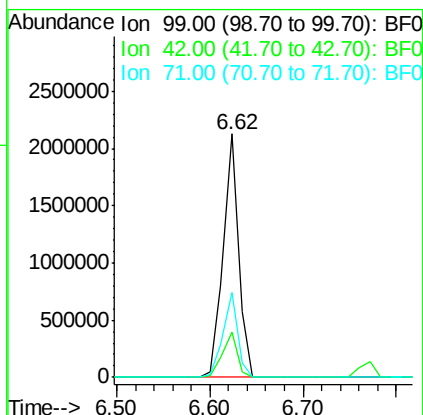
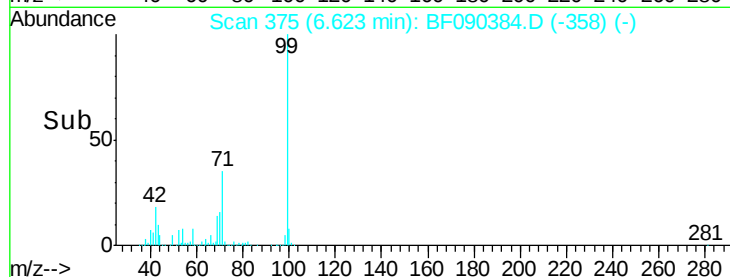
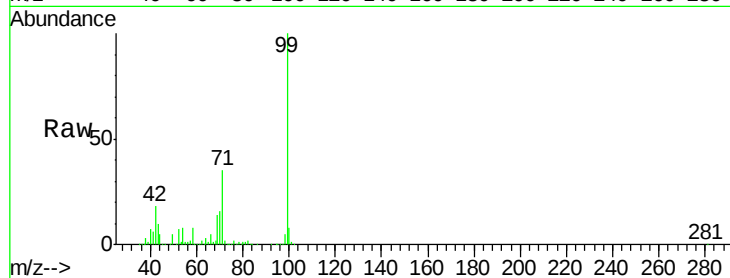
Ion Ratio Lower Upper

99 100

42 18.3 20.0 30.0#

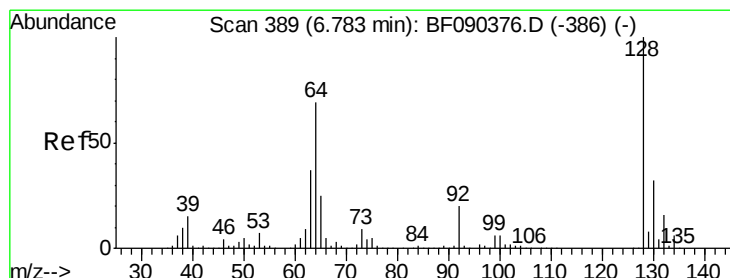
71 34.8 27.9 41.9

Manual Integrations
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#8

2-Chlorophenol

Concen: 1.19 ng

RT: 6.78 min Scan# 389

Delta R.T. -0.00 min

Lab File: BF090384.D

Acq: 5 Oct 2016 16:30

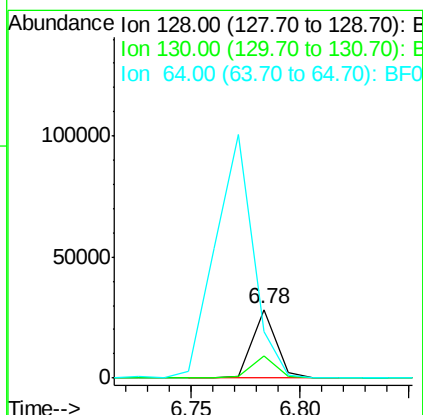
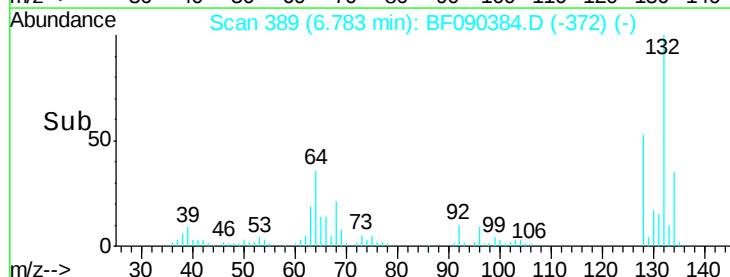
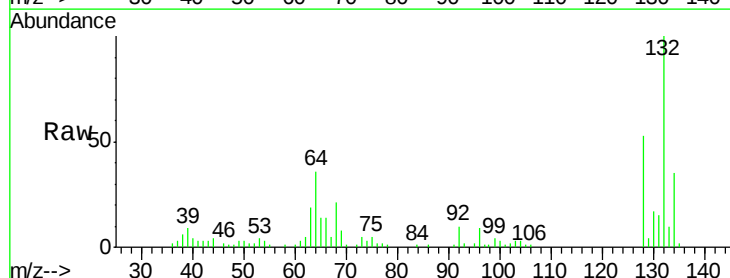
Tgt Ion: 128 Resp: 21624

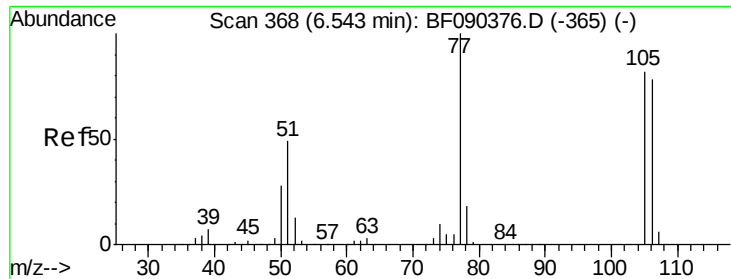
Ion Ratio Lower Upper

128 100

130 31.7 13.3 53.3

64 66.9 36.0 76.0



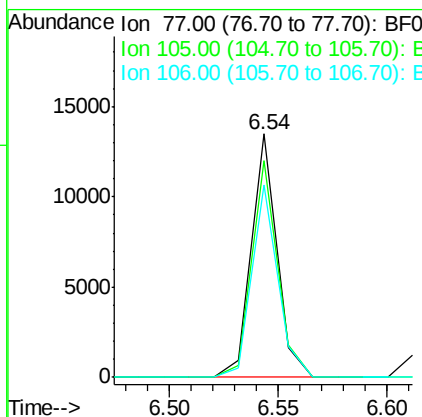
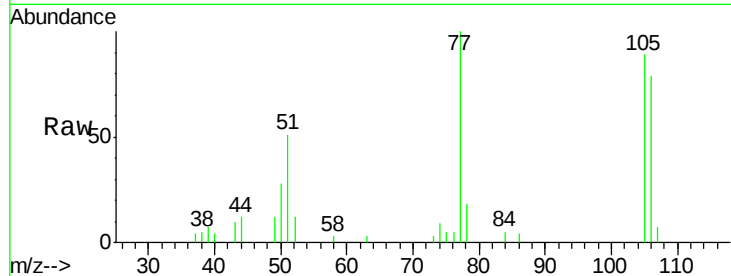


#9
Benzaldehyde
Concen: 1.01 ng
RT: 6.54 min Scan# 368
Delta R.T. -0.00 min
Lab File: BF090384.D
Acq: 5 Oct 2016 16:30

Instrument :
BNA_F
ClientSampleId :
LOD-SOIL2016-01-QT4

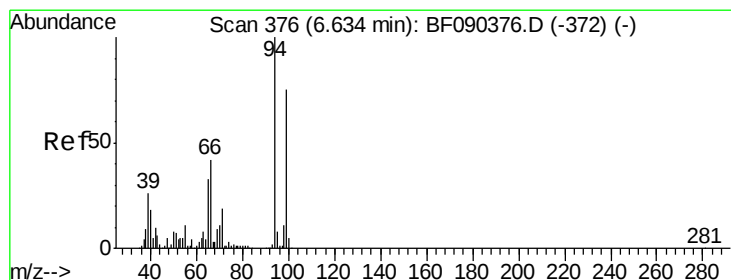
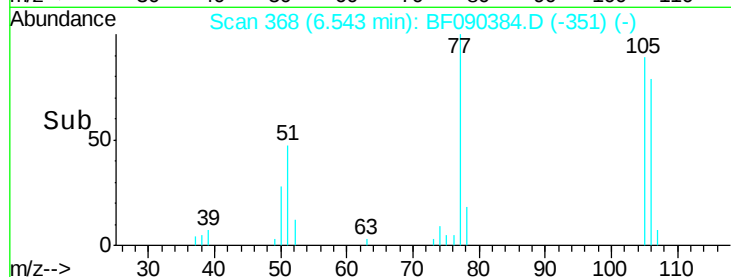
Tot Ion	Ratio	Lower	Upper
77	100		
105	88.9	73.1	113.1
106	79.1	70.2	110.2

Manual Integrations
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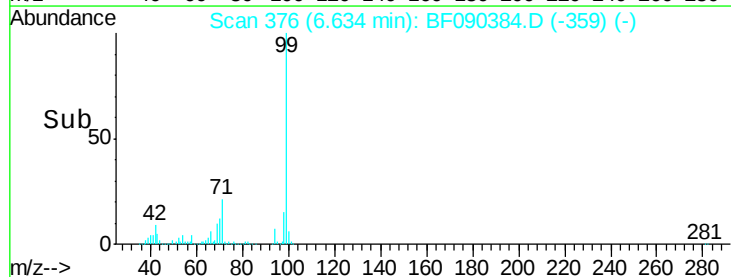
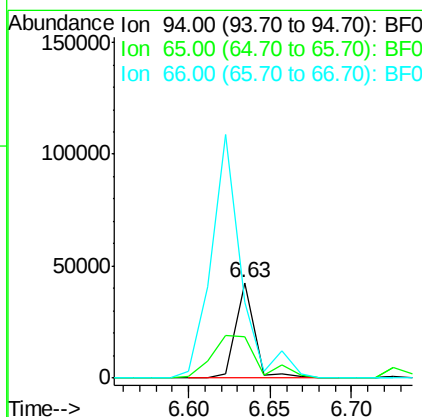
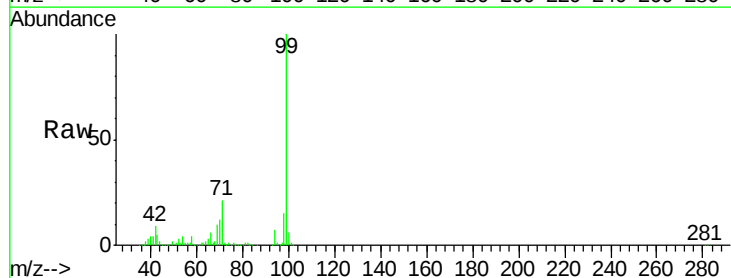
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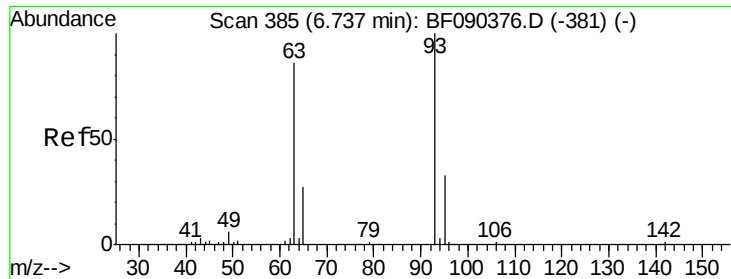
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#10
Phenol
Concen: 1.33 ng
RT: 6.63 min Scan# 376
Delta R.T. -0.00 min
Lab File: BF090384.D
Acq: 5 Oct 2016 16:30

Tgt Ion	Ratio	Lower	Upper
94	100		
65	42.6	13.3	53.3
66	79.4	20.4	60.4



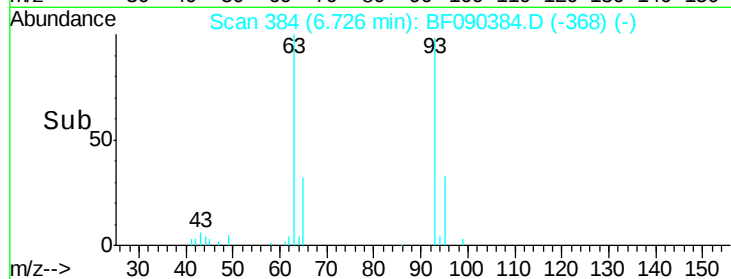
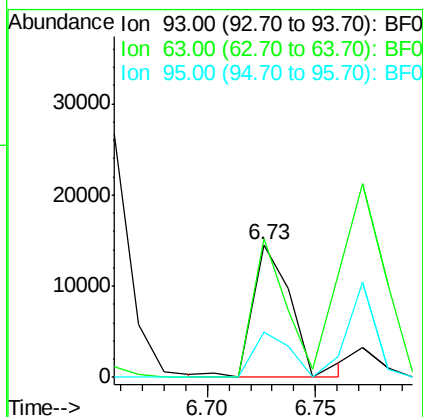
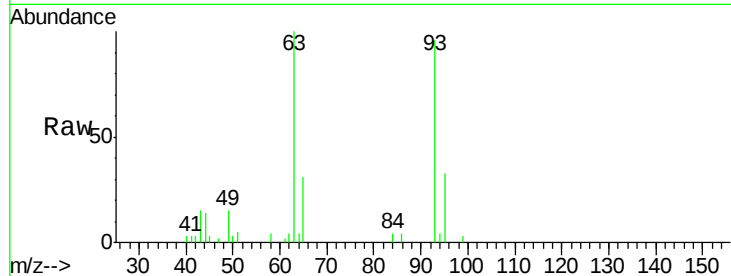


#11
bis(2-Chloroethyl)ether
Concen: 0.94 ng
RT: 6.73 min Scan# 384
Delta R.T. -0.01 min
Lab File: BF090384.D
Acq: 5 Oct 2016 16:30

Instrument :
BNA_F
ClientSampleId :
LOD-SOIL2016-01-QT4

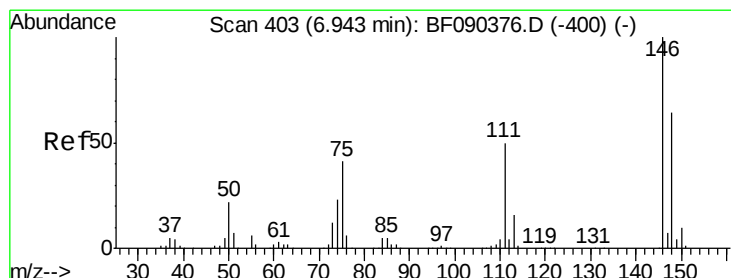
Tot Ion	Ratio	Lower	Upper
93	100		
63	104.4	59.7	99.7#
95	34.0	14.0	54.0

Manual Integrations
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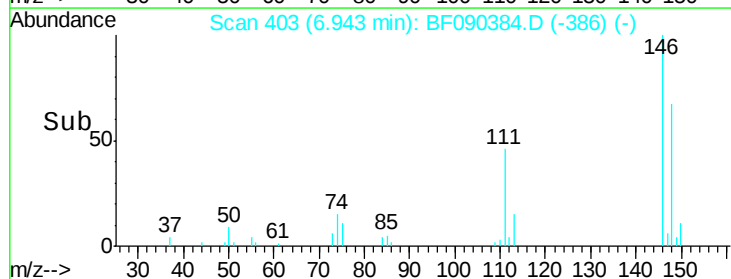
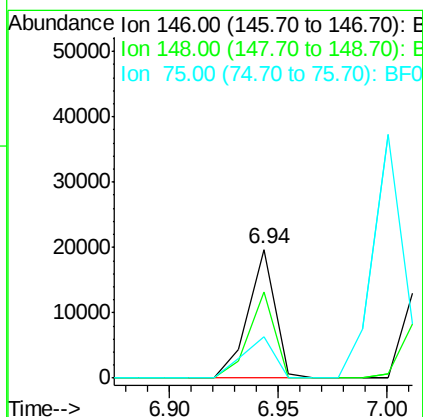
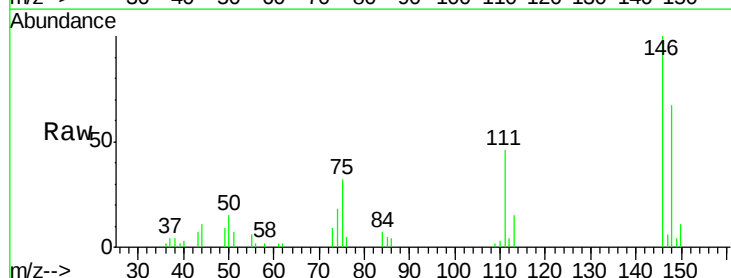
SOHIL

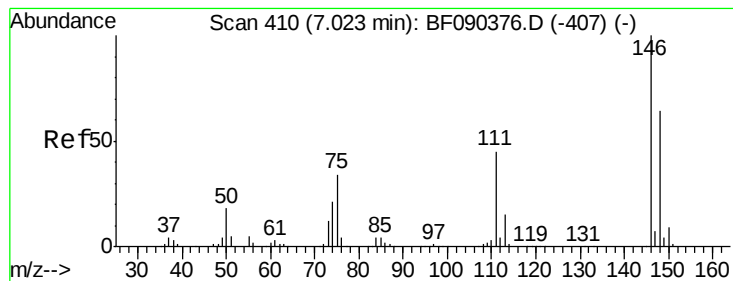
10/6/2016 5:27:31 PM



#12
1,3-Dichlorobenzene
Concen: 0.94 ng
RT: 6.94 min Scan# 403
Delta R.T. -0.00 min
Lab File: BF090384.D
Acq: 5 Oct 2016 16:30

Tgt Ion	Ratio	Lower	Upper
146	100		
148	67.2	52.2	78.4
75	32.4	21.4	32.2#





#13

1,4-Dichlorobenzene

Concen: 0.92 ng

RT: 7.01 min Scan# 409

Delta R.T. -0.01 min

Lab File: BF090384.D

Acq: 5 Oct 2016 16:30

Instrument :

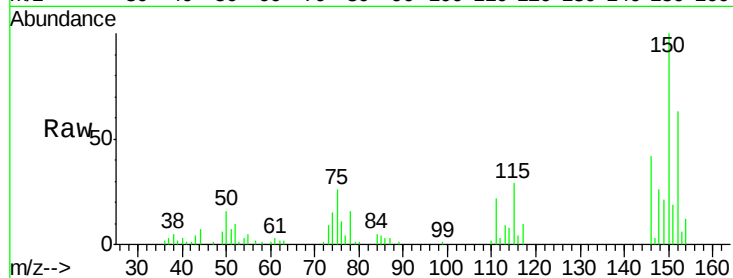
BNA_F

ClientSampleId :

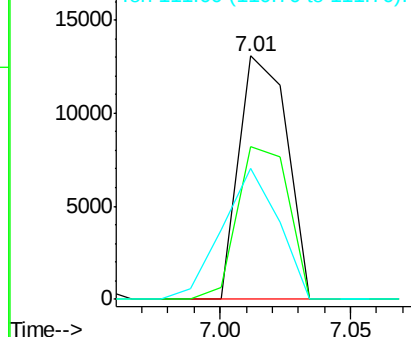
LOD-SOIL2016-01-QT4

Tot Ion	Ratio	Lower	Upper
146	100		
148	62.8	51.1	76.7
111	53.8	37.8	56.6

Manual Integrations
APPROVED

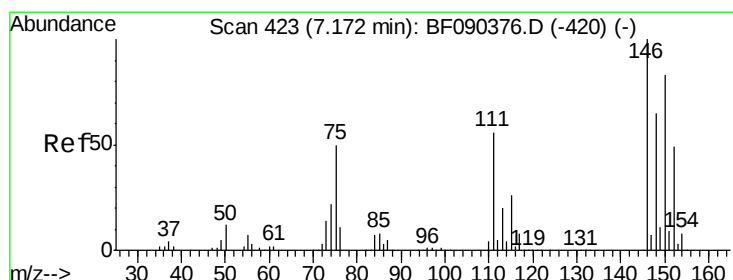
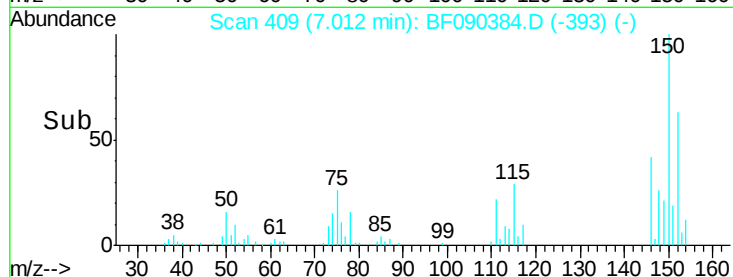


Abundance Ion 146.00 (145.70 to 146.70): E
Ion 148.00 (147.70 to 148.70): E
Ion 111.00 (110.70 to 111.70): E



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#14

1,2-Dichlorobenzene

Concen: 1.06 ng

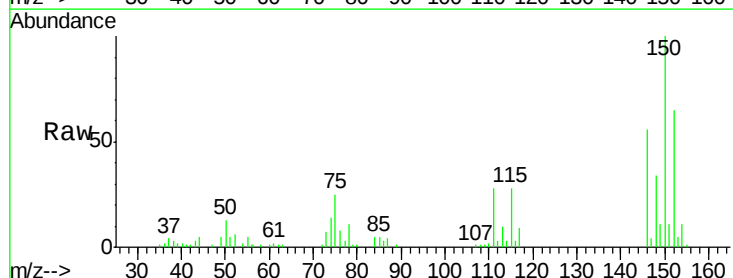
RT: 7.17 min Scan# 423

Delta R.T. -0.00 min

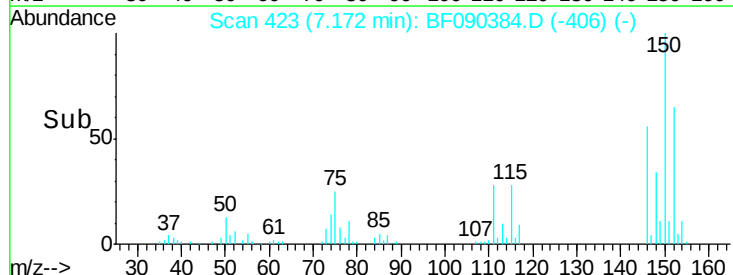
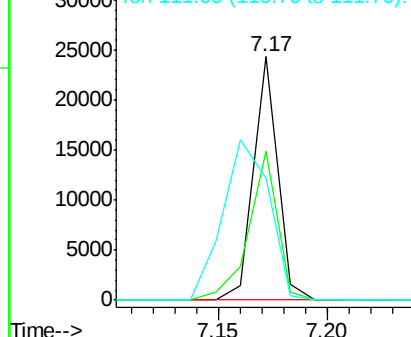
Lab File: BF090384.D

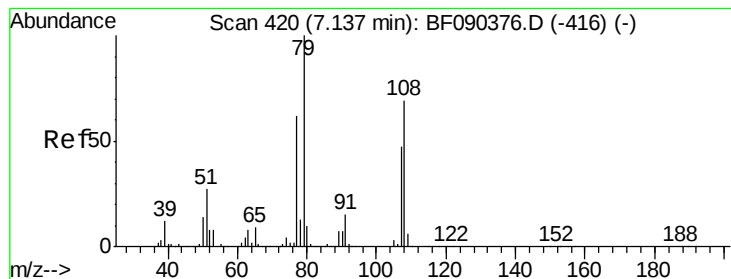
Acq: 5 Oct 2016 16:30

Tgt Ion	Ratio	Lower	Upper
146	100		
148	61.4	52.3	78.5
111	50.1	38.2	57.4



Abundance Ion 146.00 (145.70 to 146.70): E
Ion 148.00 (147.70 to 148.70): E
Ion 111.00 (110.70 to 111.70): E





#15

Benzyl Alcohol

Concen: 2.80 ng

RT: 7.16 min Scan# 422

Delta R.T. 0.02 min

Lab File: BF090384.D

Acq: 5 Oct 2016 16:30

Instrument :

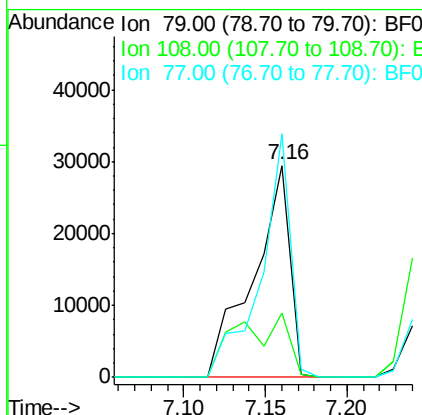
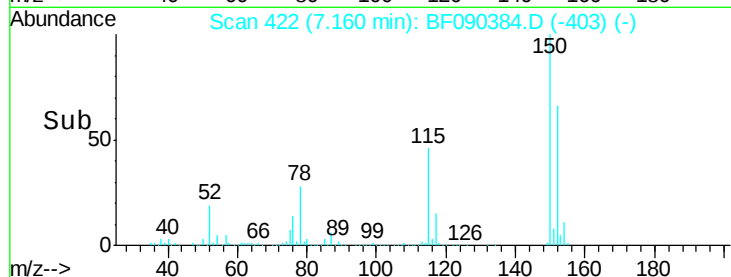
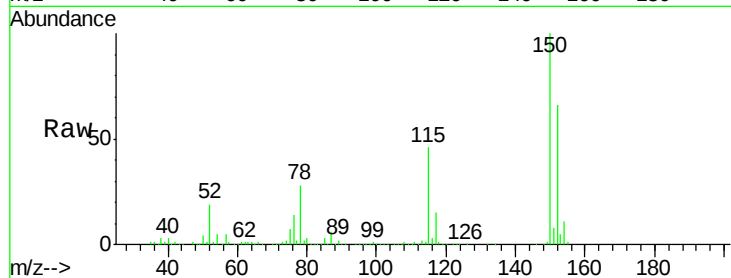
BNA_F

ClientSampleId :

LOD-SOIL2016-01-QT4

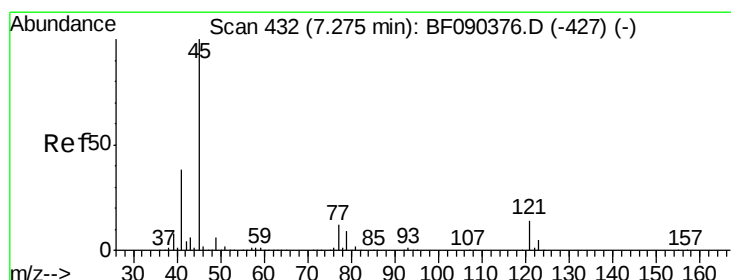
Tot Ion:	79	Resp:	45869
Ion Ratio	Lower	Upper	
79	100		
108	30.3	60.9	91.3#
77	114.7	51.5	77.3#

Manual Integrations
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#16

2,2'-oxybis(1-chloropropane)

Concen: 1.00 ng

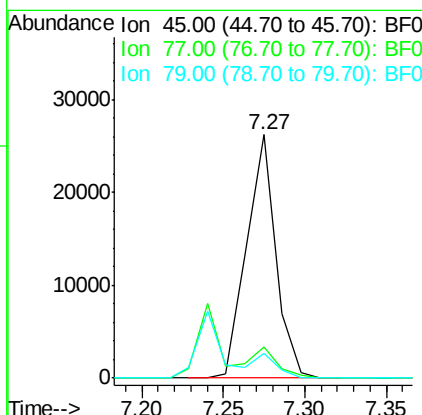
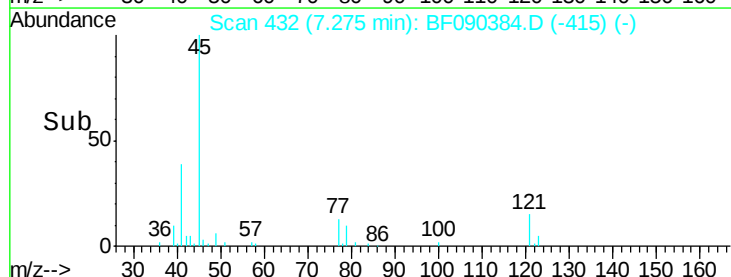
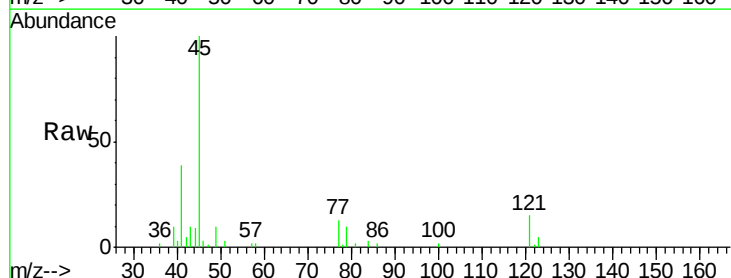
RT: 7.27 min Scan# 432

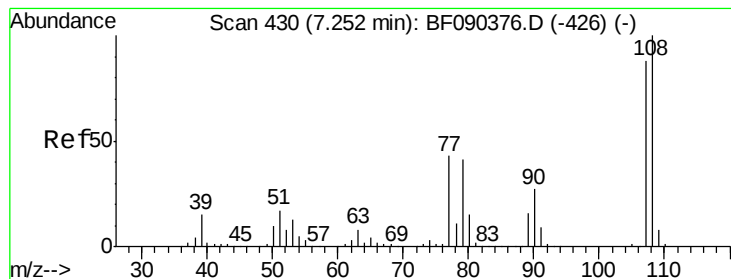
Delta R.T. -0.00 min

Lab File: BF090384.D

Acq: 5 Oct 2016 16:30

Tgt Ion:	45	Resp:	32425
Ion Ratio	Lower	Upper	
45	100		
77	12.8	0.0	30.8
79	10.3	0.0	28.2



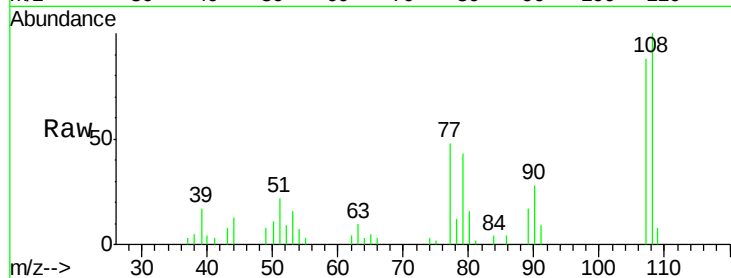


#17
2-Methylphenol
Concen: 0.93 ng
RT: 7.24 min Scan# 429
Delta R.T. -0.01 min
Lab File: BF090384.D
Acq: 5 Oct 2016 16:30

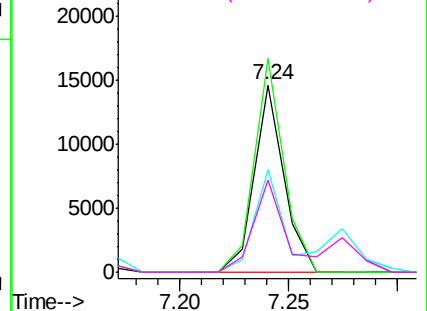
Instrument :
BNA_F
ClientSampleId :
LOD-SOIL2016-01-QT4

Tot Ion:	107	Resp:	13814
Ion Ratio	Lower	Upper	
107	100		
108	113.9	90.9	136.3
77	54.9	38.2	57.4
79	49.5	37.0	55.4

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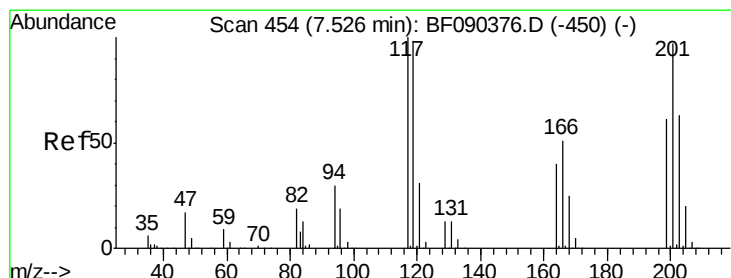
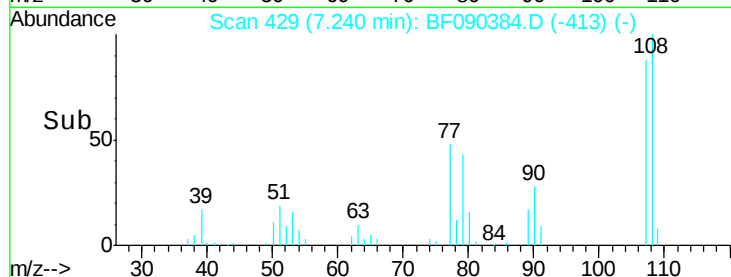


Abundance Ion 107.00 (106.70 to 107.70): E
Ion 108.00 (107.70 to 108.70): E
Ion 77.00 (76.70 to 77.70): BF0
Ion 79.00 (78.70 to 79.70): BF0



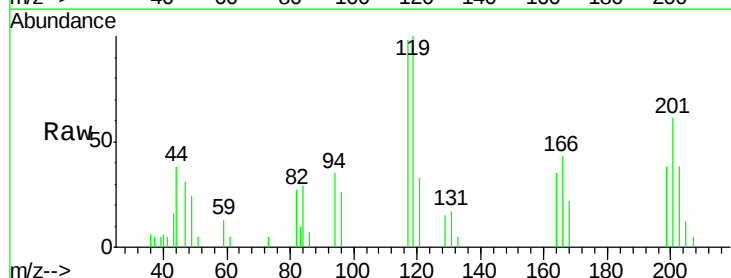
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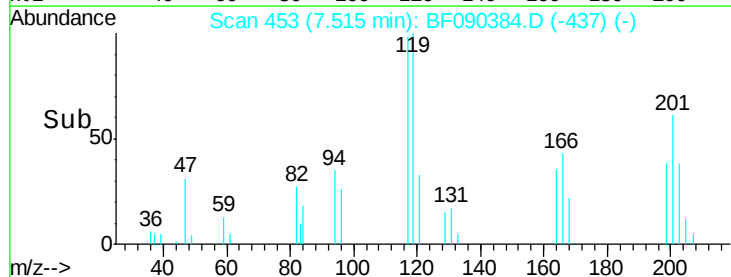
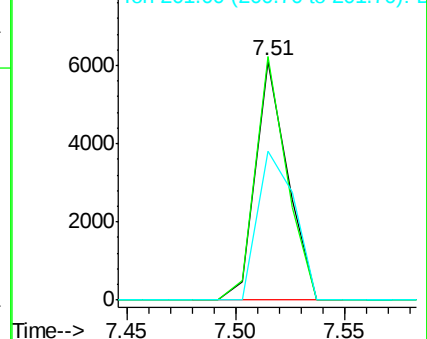


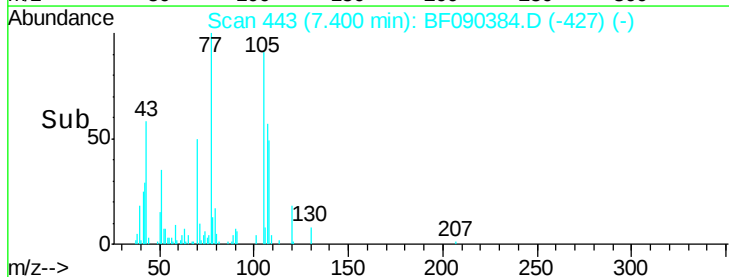
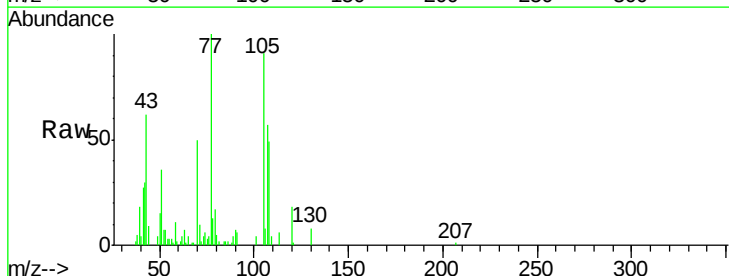
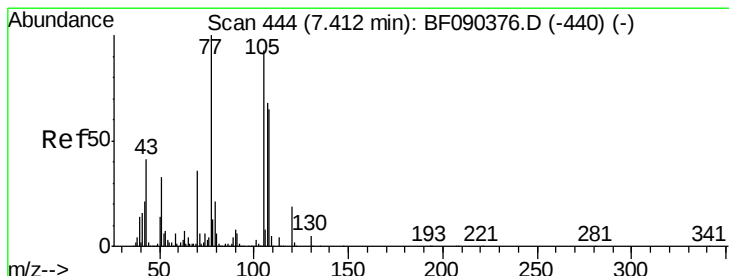
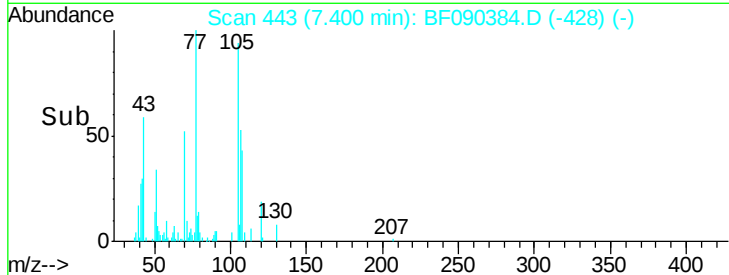
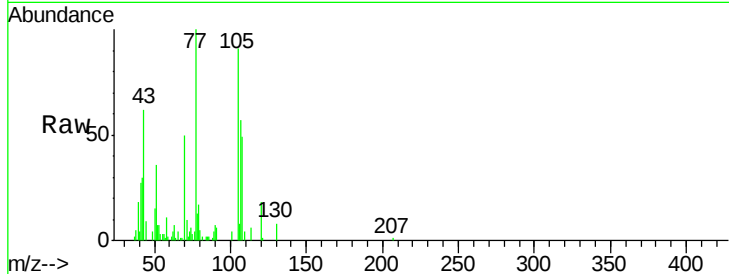
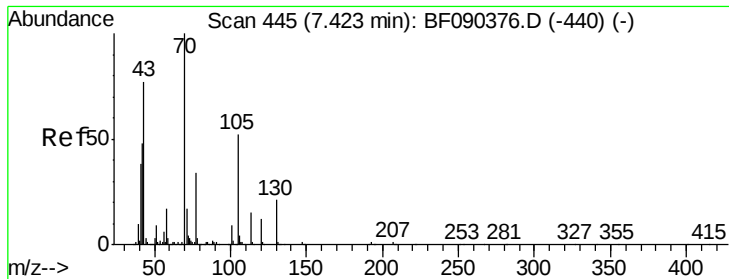
#18
Hexachloroethane
Concen: 0.87 ng
RT: 7.51 min Scan# 453
Delta R.T. -0.01 min
Lab File: BF090384.D
Acq: 5 Oct 2016 16:30

Tgt Ion:	117	Resp:	6264
Ion Ratio	Lower	Upper	
117	100		
119	101.9	75.9	113.9
201	62.2	66.5	99.7#



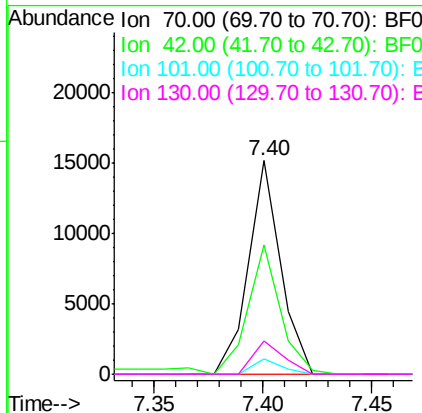
Abundance Ion 117.00 (116.70 to 117.70): E
Ion 119.00 (118.70 to 119.70): E
Ion 201.00 (200.70 to 201.70): E





#19
n-Nitroso-di-n-propylamine
Concen: 0.99 ng
RT: 7.40 min Scan# 443
Delta R.T. -0.02 min
Lab File: BF090384.D
Acq: 5 Oct 2016 16:30

Tot Ion:	70	Resp:	15652
Ion Ratio	Lower	Upper	
70	100		
42	60.3	55.4	83.2
101	7.1	7.6	11.4#
130	15.8	16.5	24.7#



Instrument :
BNA_F
ClientSampleId :
LOD-SOIL2016-01-QT4

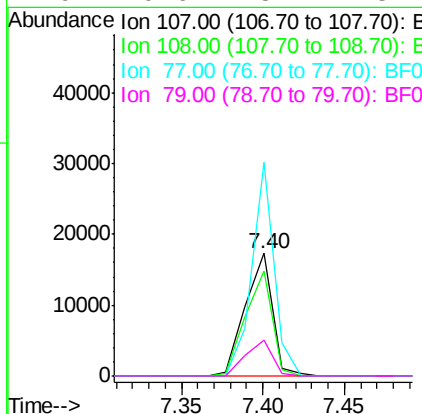
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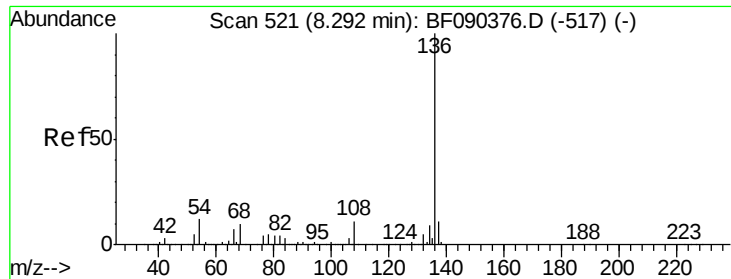
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#20
3+4-Methylphenols
Concen: 1.03 ng
RT: 7.40 min Scan# 443
Delta R.T. -0.01 min
Lab File: BF090384.D
Acq: 5 Oct 2016 16:30

Tgt Ion:	107	Resp:	19843
Ion Ratio	Lower	Upper	
107	100		
108	85.5	66.7	106.7
77	174.1	53.7	93.7#
79	29.6	8.4	48.4



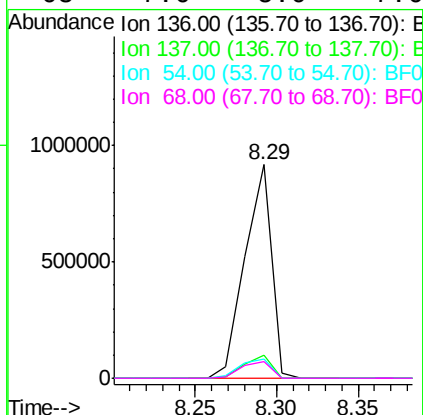
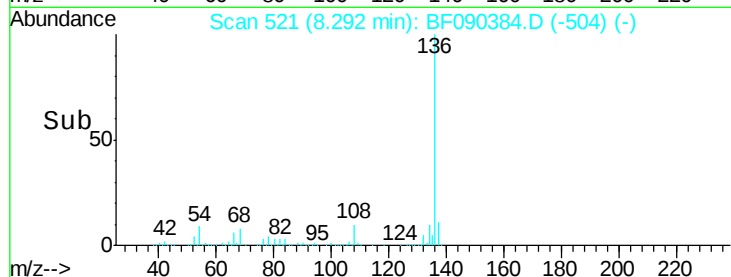
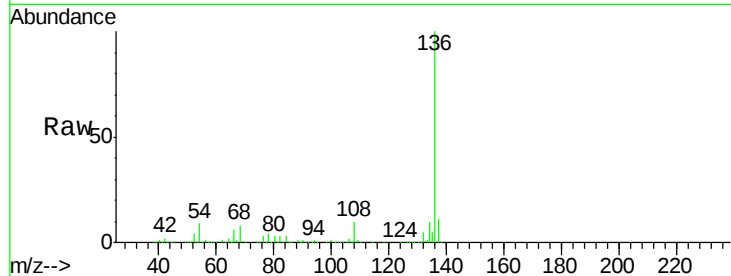


#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.29 min Scan# 521
Delta R.T. -0.00 min
Lab File: BF090384.D
Acq: 5 Oct 2016 16:30

Instrument :
BNA_F
ClientSampleId :
LOD-SOIL2016-01-QT4

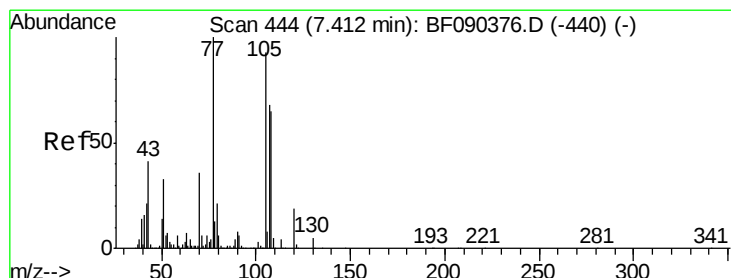
Tot Ion	Ratio	Lower	Upper
136	100		
137	10.9	9.0	13.6
54	8.9	6.6	10.0
68	7.6	5.0	7.6#

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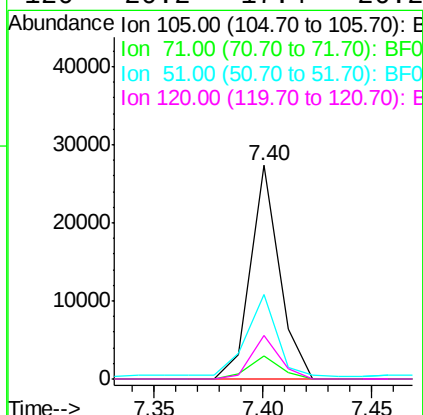
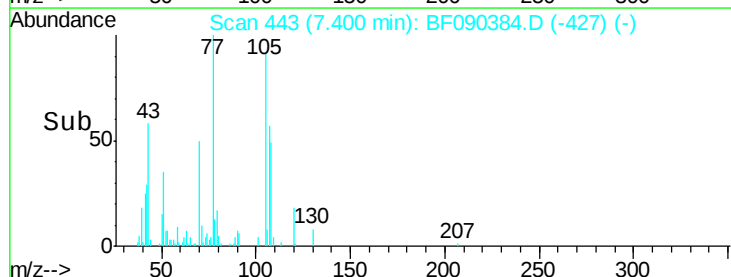
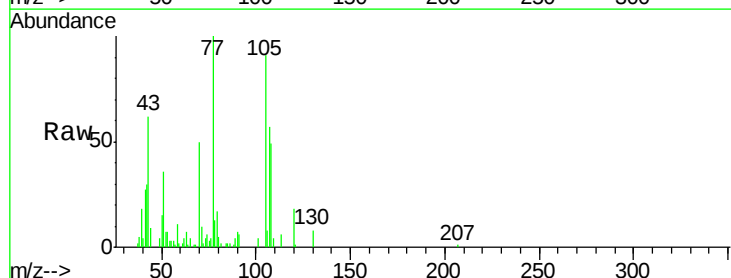
SOHIL

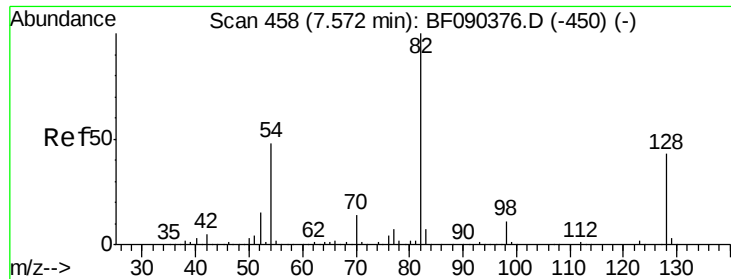
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#22
Acetophenone
Concen: 1.03 ng
RT: 7.40 min Scan# 443
Delta R.T. -0.01 min
Lab File: BF090384.D
Acq: 5 Oct 2016 16:30

Tgt Ion	Ratio	Lower	Upper
105	100		
71	10.5	3.8	5.6#
51	39.8	28.2	42.4
120	20.2	17.4	26.2



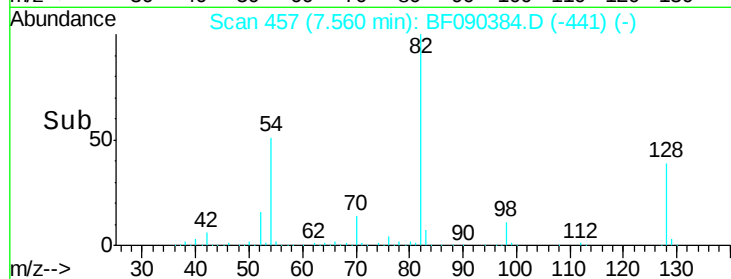
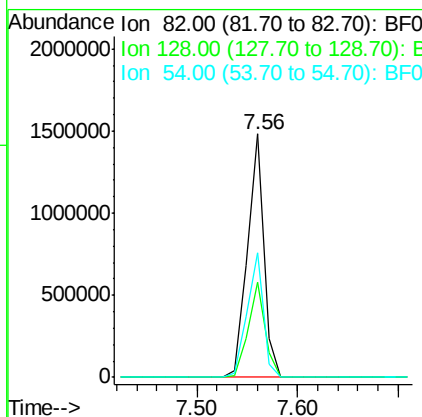
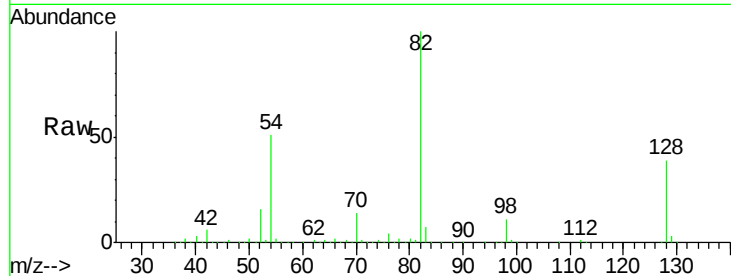


#23
Nitrobenzene-d5
Concen: 78.71 ng
RT: 7.56 min Scan# 457
Delta R.T. -0.01 min
Lab File: BF090384.D
Acq: 5 Oct 2016 16:30

Instrument :
BNA_F
ClientSampleId :
LOD-SOIL2016-01-QT4

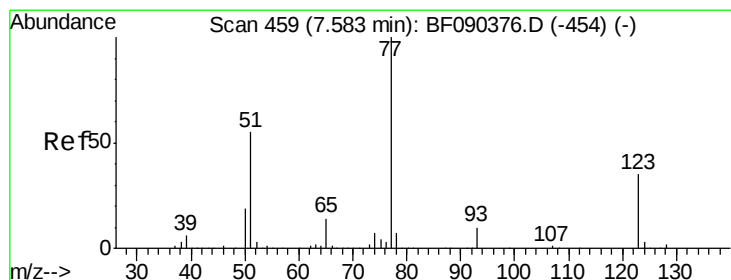
Tot Ion: 82 Resp: 1676749
Ion Ratio Lower Upper
82 100
128 39.3 40.0 60.0#
54 51.3 42.6 64.0

Manual Integrations
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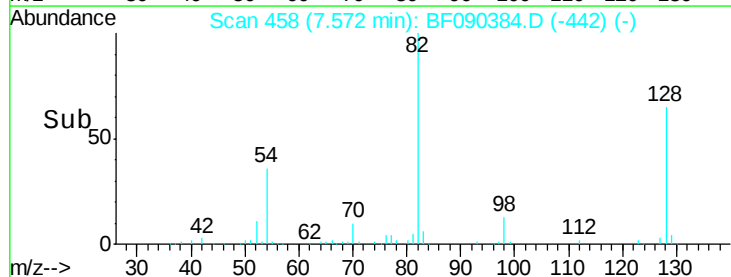
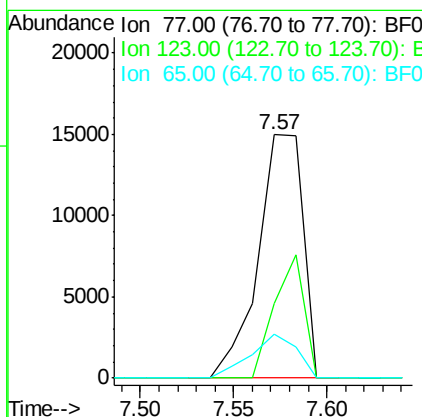
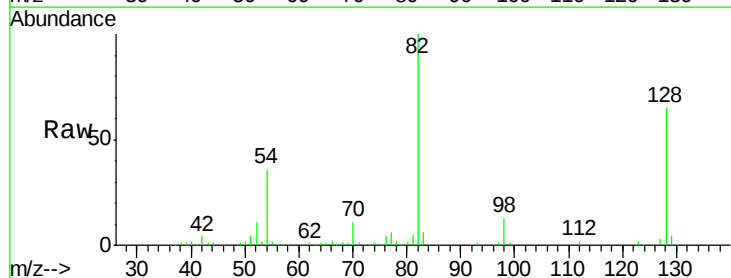
SOHIL

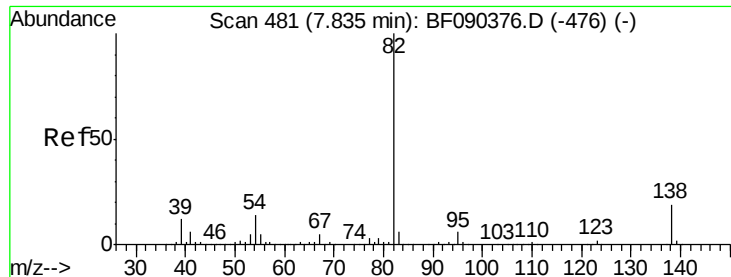
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#24
Nitrobenzene
Concen: 1.18 ng
RT: 7.57 min Scan# 458
Delta R.T. -0.01 min
Lab File: BF090384.D
Acq: 5 Oct 2016 16:30

Tgt Ion: 77 Resp: 24976
Ion Ratio Lower Upper
77 100
123 30.9 33.0 49.4#
65 17.8 12.0 18.0





#25

Isophorone

Concen: 0.96 ng

RT: 7.81 min Scan# 479

Delta R.T. -0.02 min

Lab File: BF090384.D

Acq: 5 Oct 2016 16:30

Instrument :

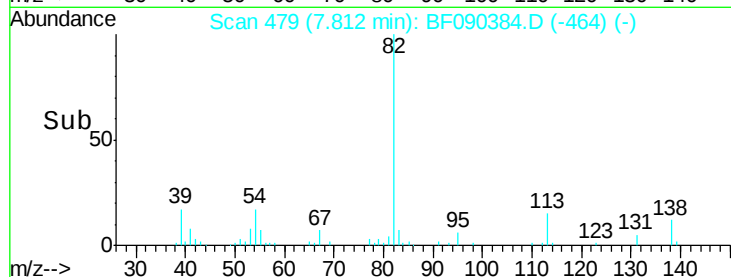
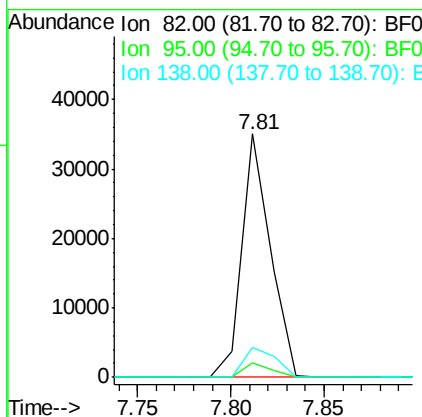
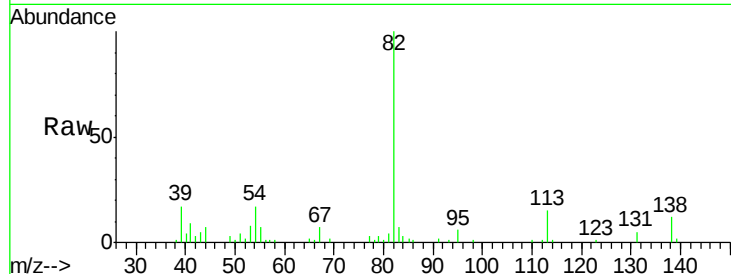
BNA_F

ClientSampleId :

LOD-SOIL2016-01-QT4

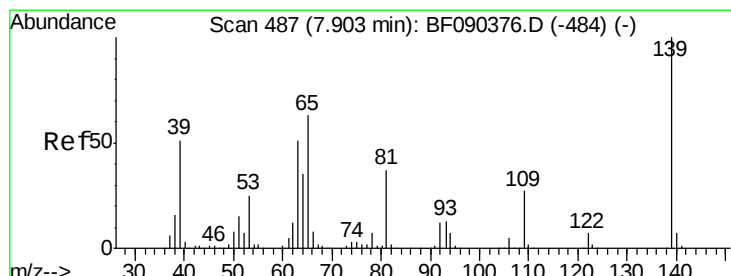
Tot Ion:	82	Resp:	37269
Ion Ratio		Lower	Upper
82	100		
95	5.7	5.2	7.8
138	12.3	13.0	19.4#

Manual Integrations
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#26

2-Nitrophenol

Concen: 0.73 ng

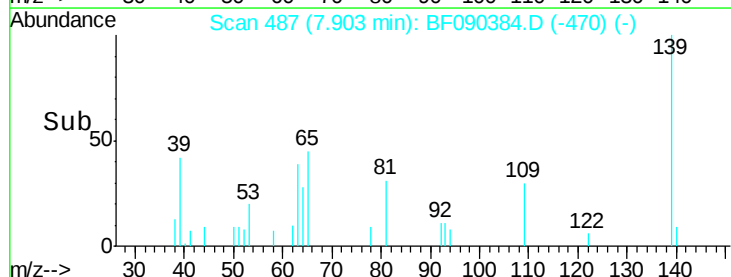
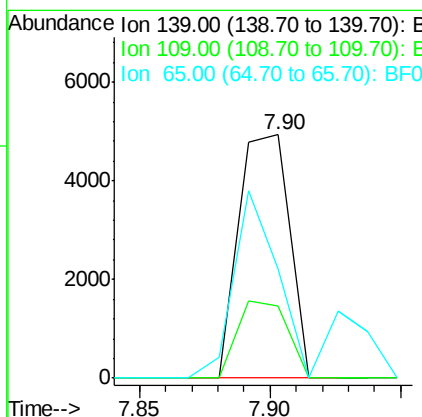
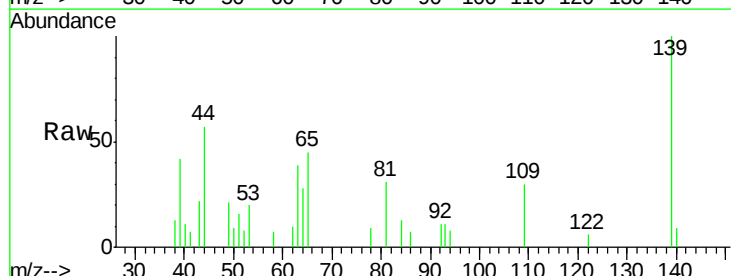
RT: 7.90 min Scan# 487

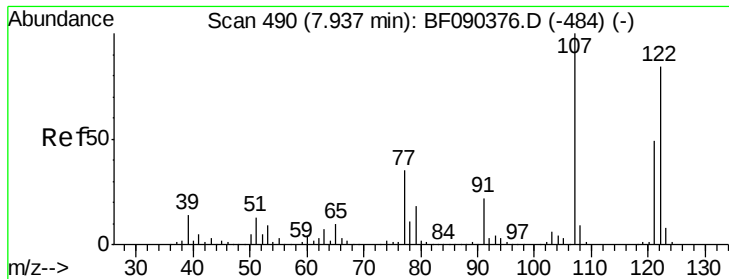
Delta R.T. -0.00 min

Lab File: BF090384.D

Acq: 5 Oct 2016 16:30

Tgt Ion:	139	Resp:	6669
Ion Ratio		Lower	Upper
139	100		
109	29.5	18.9	28.3#
65	44.7	31.6	47.4





#27

2,4-Dimethylphenol

Concen: 0.88 ng/mL

RT: 7.93 min Scan# 489

Delta R.T. -0.01 min

Lab File: BF090384.D

Acq: 5 Oct 2016 16:30

Instrument :

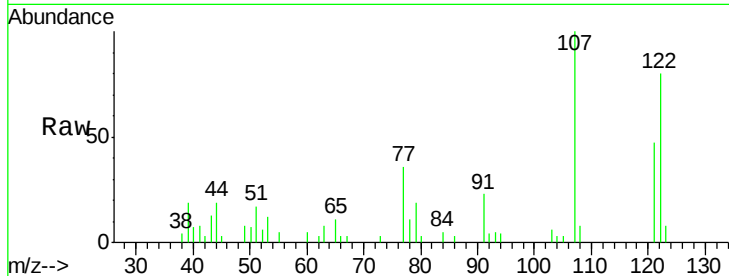
BNA_F

ClientSampleId :

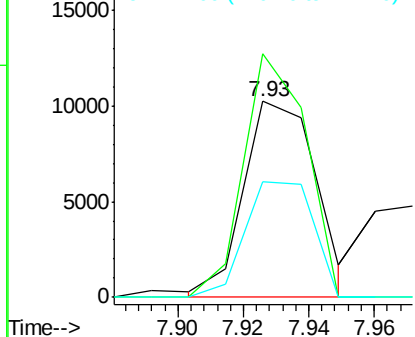
LOD-SOIL2016-01-QT4

Tot Ion:	122	Resp:	15630
Ion Ratio	Lower	Upper	
122	100		
107	124.3	88.6	132.8
121	58.8	47.5	71.3

Manual Integrations
APPROVED

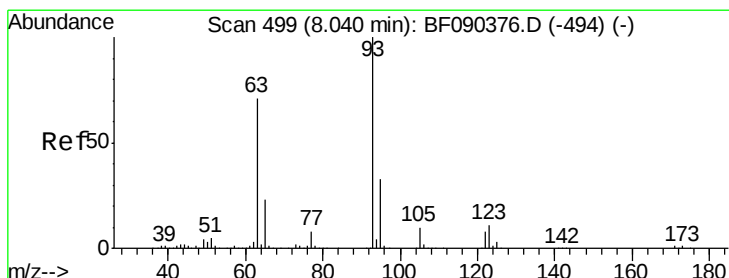
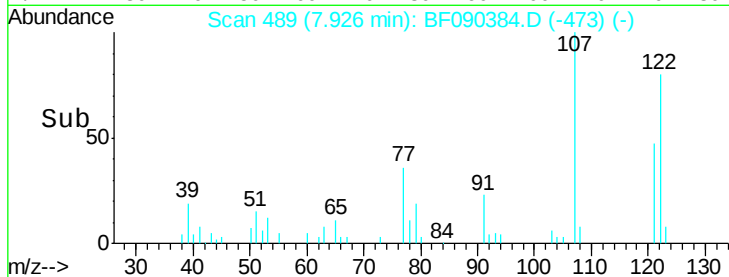


Abundance Ion 122.00 (121.70 to 122.70): E
Ion 107.00 (106.70 to 107.70): E
Ion 121.00 (120.70 to 121.70): E



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#28

bis(2-Chloroethoxy)methane

Concen: 1.05 ng/mL

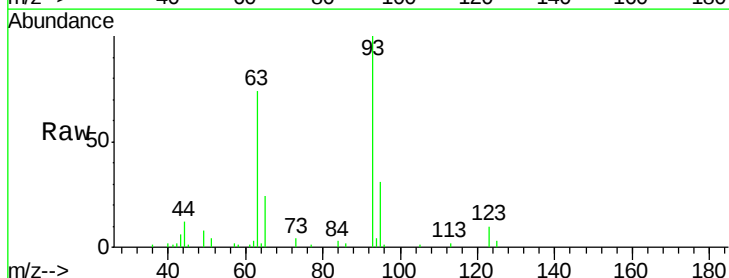
RT: 8.03 min Scan# 498

Delta R.T. -0.01 min

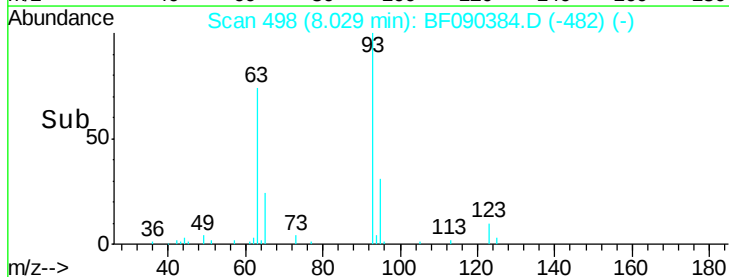
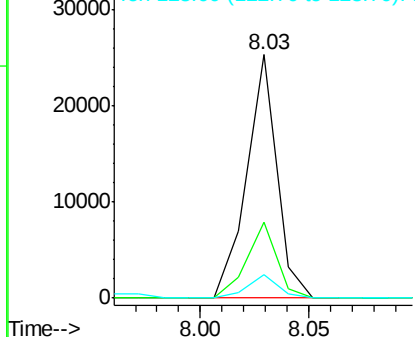
Lab File: BF090384.D

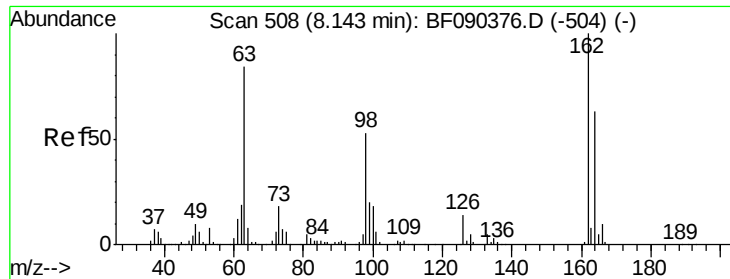
Acq: 5 Oct 2016 16:30

Tgt Ion:	93	Resp:	24265
Ion Ratio	Lower	Upper	
93	100		
95	31.1	27.0	40.4
123	9.8	11.1	16.7#



Abundance Ion 93.00 (92.70 to 93.70): BF0
Ion 95.00 (94.70 to 95.70): BF0
Ion 123.00 (122.70 to 123.70): E





#29

2,4-Dichlorophenol

Concen: 0.90 ng

RT: 8.14 min Scan# 508

Delta R.T. -0.00 min

Lab File: BF090384.D

Acq: 5 Oct 2016 16:30

Instrument :

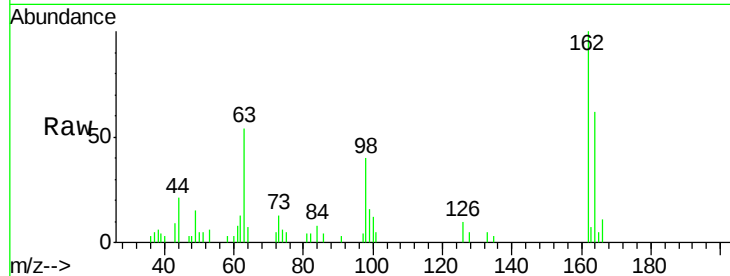
BNA_F

ClientSampleId :

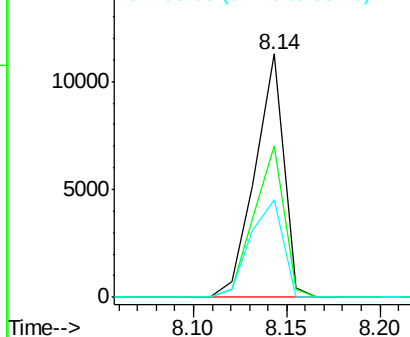
LOD-SOIL2016-01-QT4

Tot Ion:	162	Resp:	12087
Ion Ratio	Lower	Upper	
162	100		
164	62.3	45.7	85.7
98	40.1	13.3	53.3

Manual Integrations
APPROVED

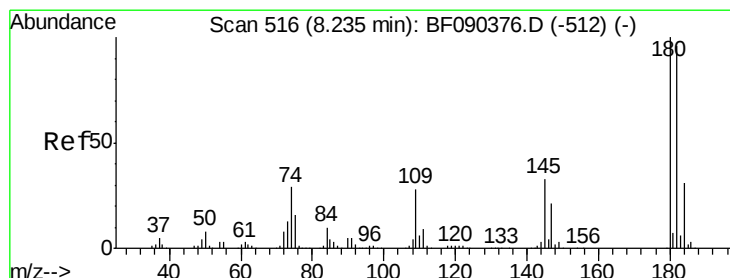
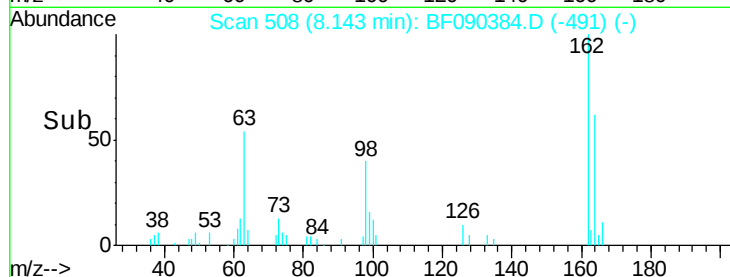


Abundance Ion 162.00 (161.70 to 162.70): E
Ion 164.00 (163.70 to 164.70): E
Ion 98.00 (97.70 to 98.70): BF0



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#30

1,2,4-Trichlorobenzene

Concen: 0.90 ng

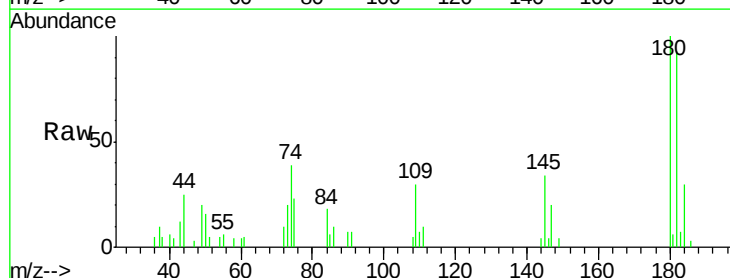
RT: 8.22 min Scan# 515

Delta R.T. -0.01 min

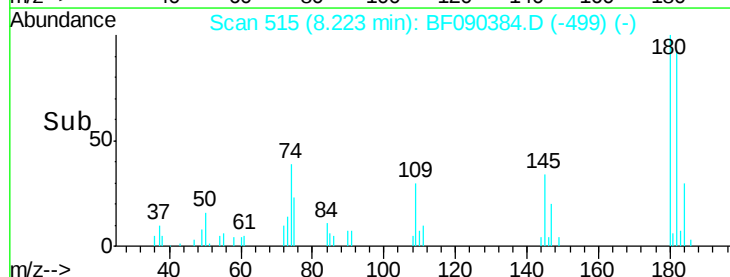
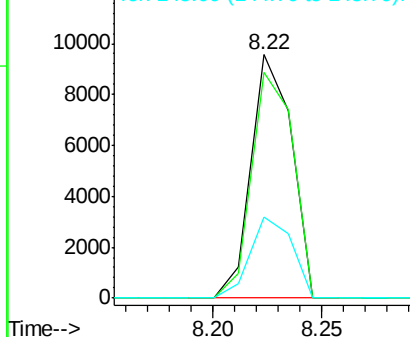
Lab File: BF090384.D

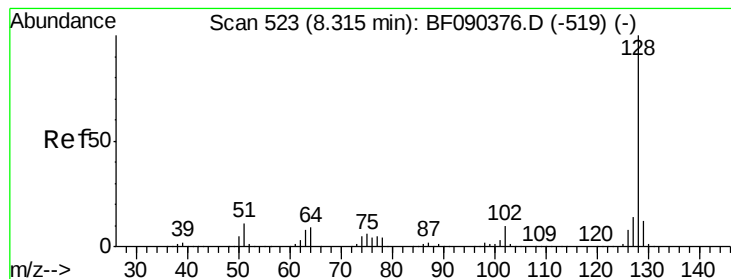
Acq: 5 Oct 2016 16:30

Tgt Ion:	180	Resp:	12453
Ion Ratio	Lower	Upper	
180	100		
182	92.9	75.3	112.9
145	33.5	27.7	41.5



Abundance Ion 180.00 (179.70 to 180.70): E
Ion 182.00 (181.70 to 182.70): E
Ion 145.00 (144.70 to 145.70): E





#31

Naphthalene

Concen: 0.99 ng

RT: 8.31 min Scan# 523

Delta R.T. -0.00 min

Lab File: BF090384.D

Acq: 5 Oct 2016 16:30

Instrument :

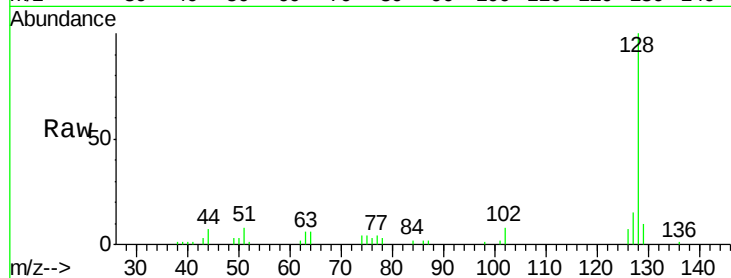
BNA_F

ClientSampleId :

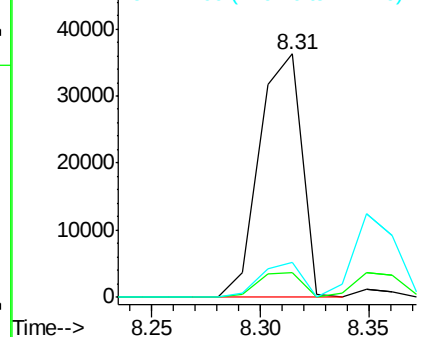
LOD-SOIL2016-01-QT4

Tot Ion:128	Resp:	49458
Ion Ratio	Lower	Upper
128	100	
129	10.4	9.7 14.5
127	14.6	11.7 17.5

Manual Integrations
APPROVED

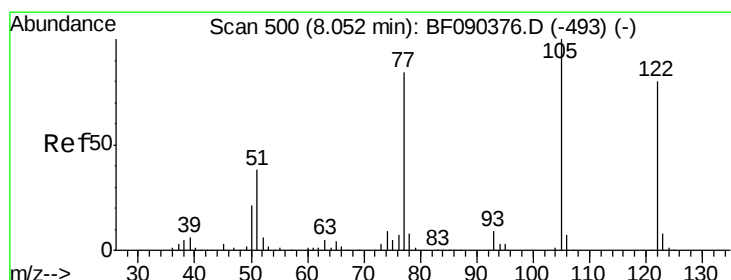
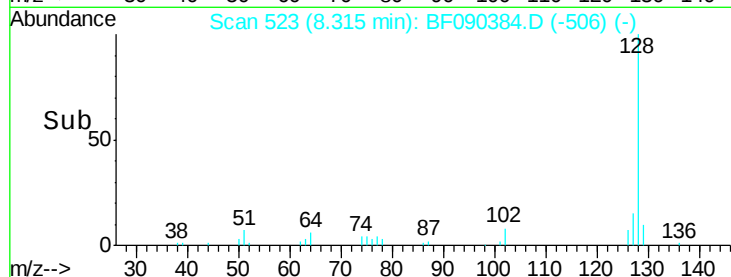


Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E



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#32

Benzoic acid

Concen: 0.65 ng m

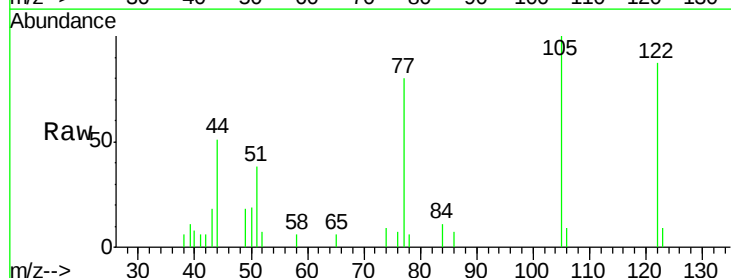
RT: 7.97 min Scan# 493

Delta R.T. -0.08 min

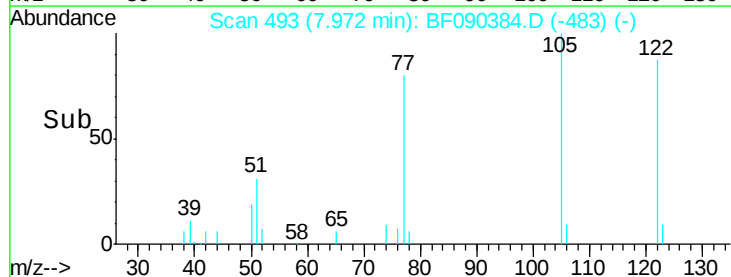
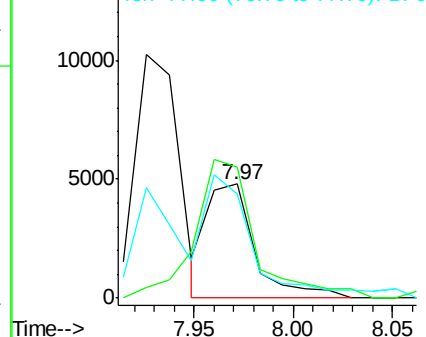
Lab File: BF090384.D

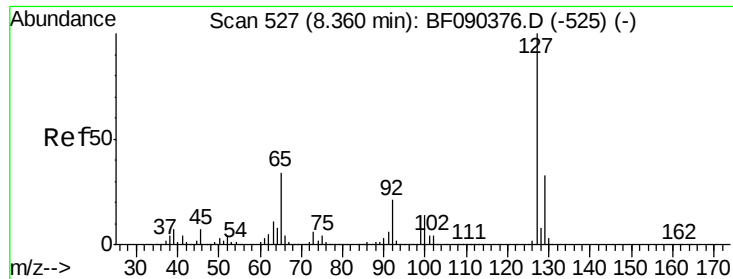
Acq: 5 Oct 2016 16:30

Tgt Ion:122	Resp:	7993
Ion Ratio	Lower	Upper
122	100	
105	115.0	103.9 143.9
77	91.7	74.6 114.6



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



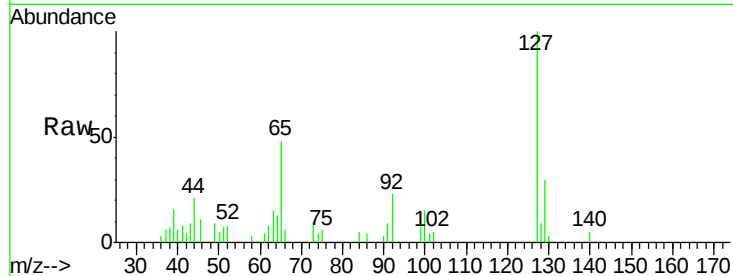


#33
4-Chloroaniline
Concen: 0.86 ng
RT: 8.35 min Scan# 526
Delta R.T. -0.01 min
Lab File: BF090384.D
Acq: 5 Oct 2016 16:30

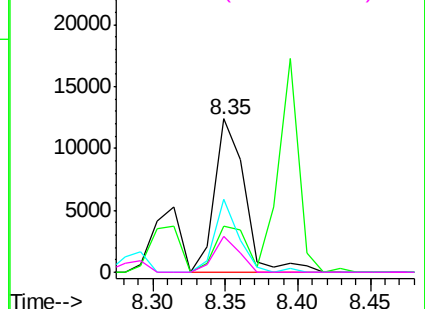
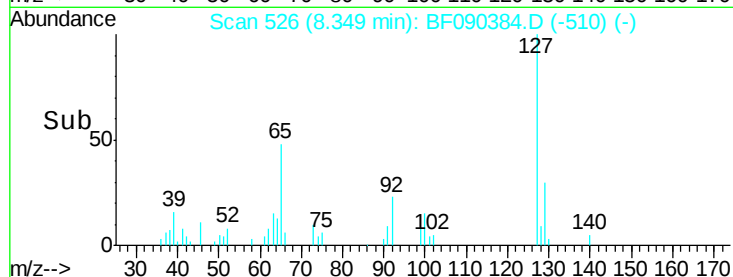
Instrument :
BNA_F
ClientSampleId :
LOD-SOIL2016-01-QT4

Tot Ion:	127	Resp:	17797
Ion Ratio	Lower	Upper	
127	100		
129	29.7	26.2	39.4
65	48.0	32.5	48.7
92	23.2	17.2	25.8

Manual Integrations
APPROVED

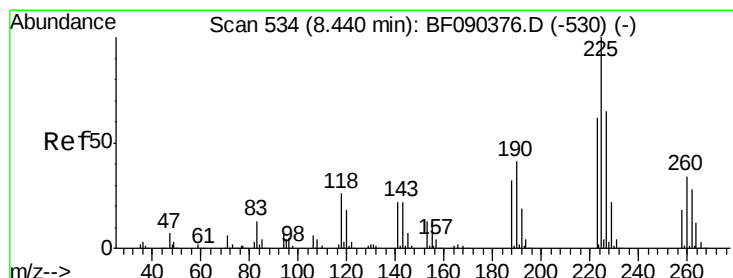


Abundance Ion 127.00 (126.70 to 127.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 65.00 (64.70 to 65.70): BF0
Ion 92.00 (91.70 to 92.70): BF0



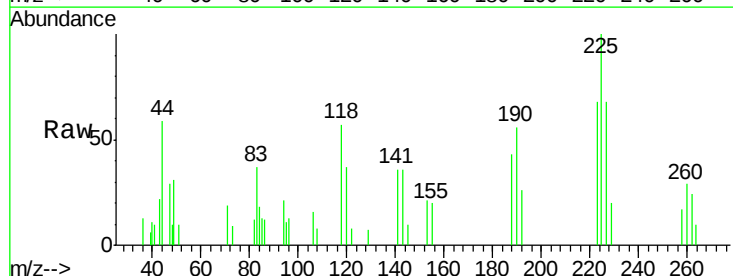
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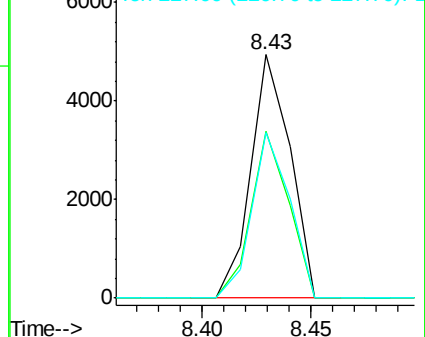
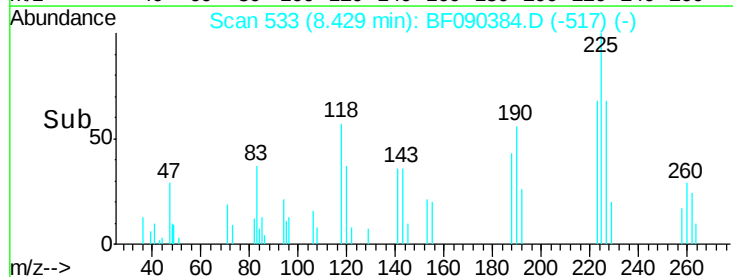


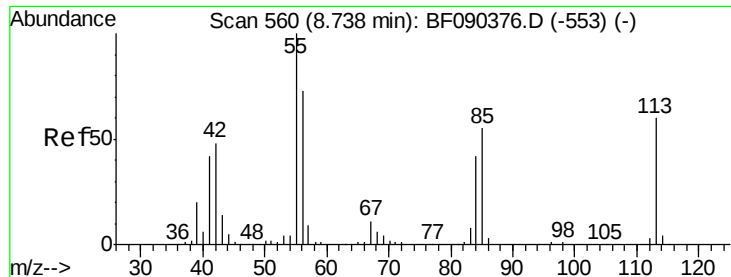
#34
Hexachlorobutadiene
Concen: 0.80 ng
RT: 8.43 min Scan# 533
Delta R.T. -0.01 min
Lab File: BF090384.D
Acq: 5 Oct 2016 16:30

Tgt Ion:	225	Resp:	6213
Ion Ratio	Lower	Upper	
225	100		
223	68.3	51.0	76.4
227	67.8	50.8	76.2



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





#35

Caprolactam

Concen: 0.84 ng

RT: 8.67 min Scan# 554

Delta R.T. -0.07 min

Lab File: BF090384.D

Acq: 5 Oct 2016 16:30

Instrument :

BNA_F

ClientSampleId :

LOD-SOIL2016-01-QT4

Tot Ion:113 Resp: 3779

Ion Ratio Lower Upper

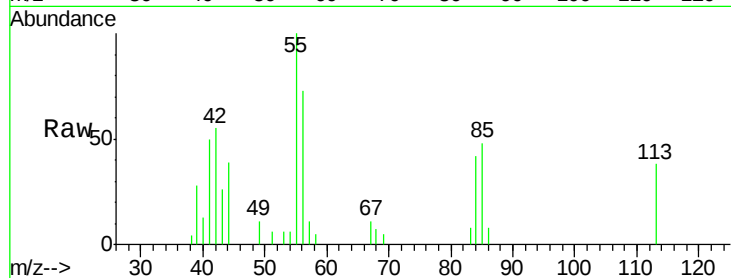
113 100

55 261.8 203.3 243.3#

56 190.3 140.5 180.5#

Manual Integrations

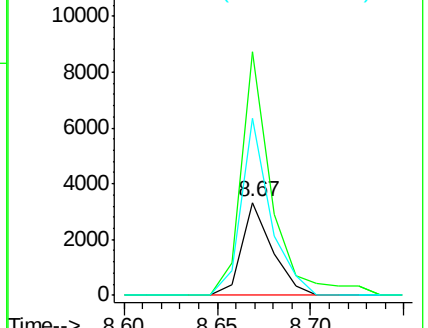
APPROVED



Abundance Ion 113.00 (112.70 to 113.70): E

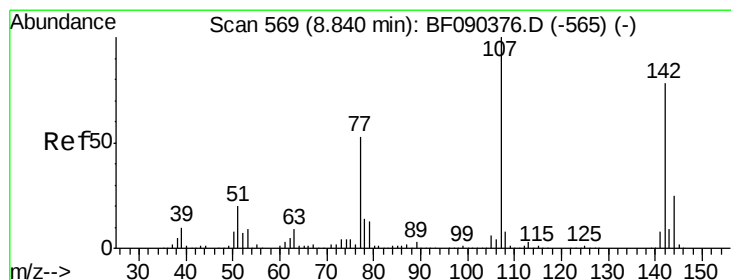
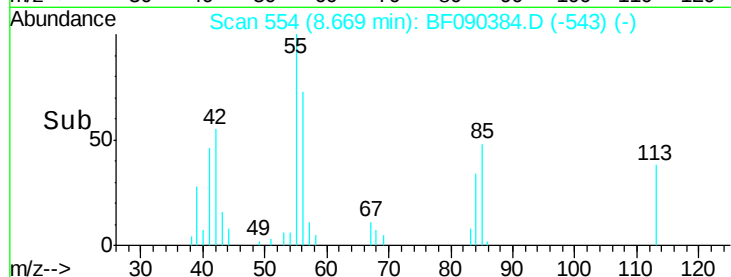
Ion 55.00 (54.70 to 55.70): BF0

Ion 56.00 (55.70 to 56.70): BF0



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#36

4-Chloro-3-methylphenol

Concen: 0.96 ng

RT: 8.83 min Scan# 568

Delta R.T. -0.01 min

Lab File: BF090384.D

Acq: 5 Oct 2016 16:30

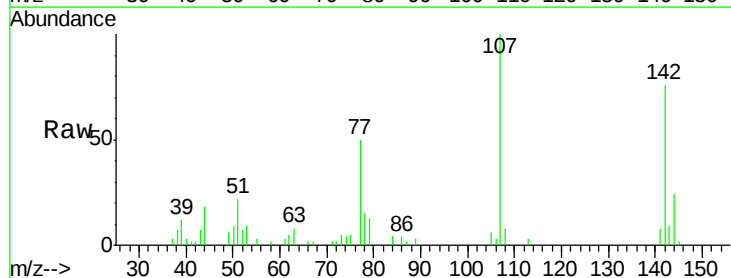
Tgt Ion:107 Resp: 16235

Ion Ratio Lower Upper

107 100

144 23.6 19.8 29.8

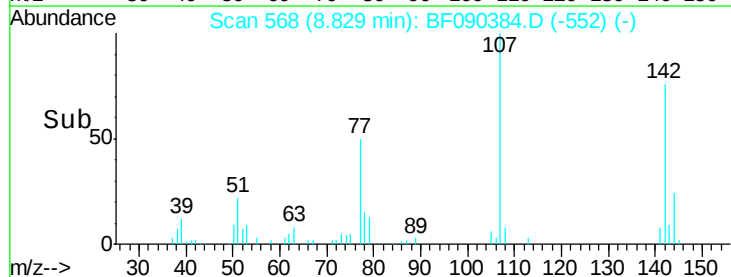
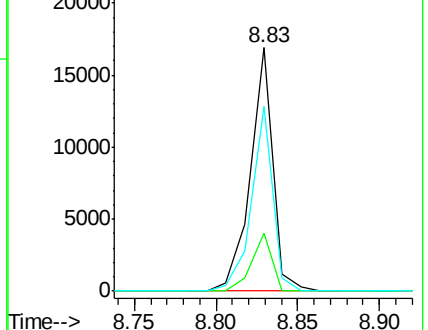
142 75.6 60.7 91.1

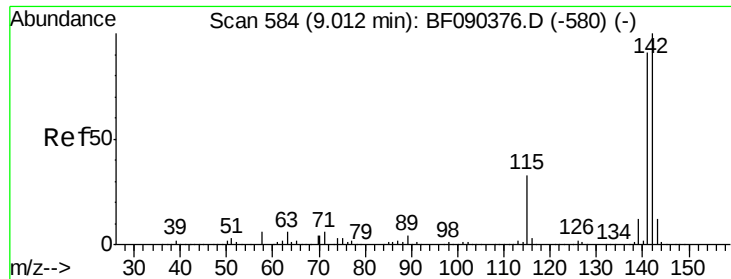


Abundance Ion 107.00 (106.70 to 107.70): E

Ion 144.00 (143.70 to 144.70): E

Ion 142.00 (141.70 to 142.70): E



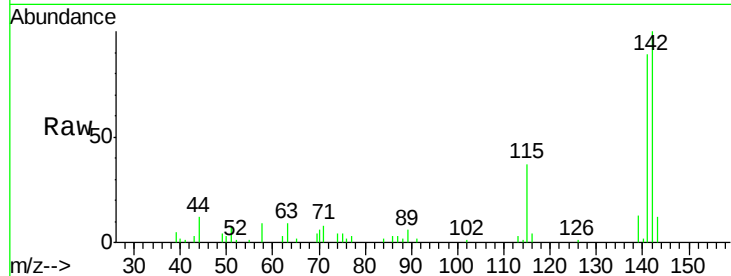


#37
2-Methylnaphthalene
Concen: 0.96 ng
RT: 9.00 min Scan# 583
Delta R.T. -0.01 min
Lab File: BF090384.D
Acq: 5 Oct 2016 16:30

Instrument :
BNA_F
ClientSampleId :
LOD-SOIL2016-01-QT4

Tot Ion	Ratio	Lower	Upper
142	100		
141	89.1	71.8	107.8
115	37.2	28.8	43.2

Manual Integrations
APPROVED

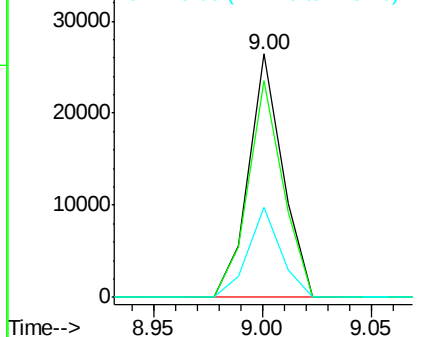


Abundance

Ion 142.00 (141.70 to 142.70): E

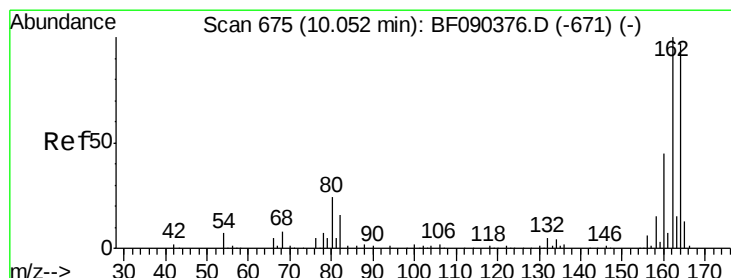
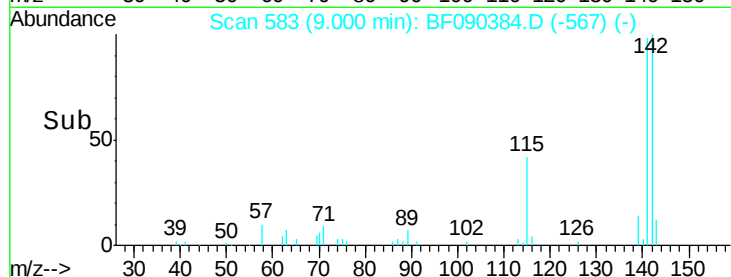
Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



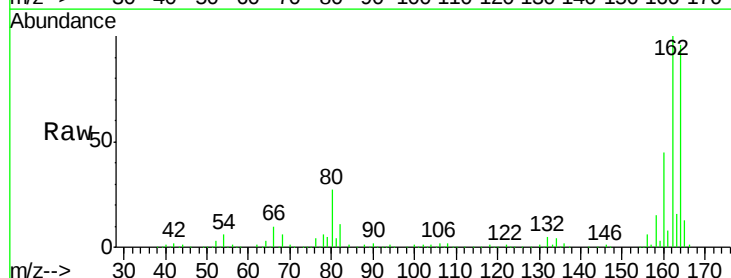
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 10.05 min Scan# 675
Delta R.T. -0.00 min
Lab File: BF090384.D
Acq: 5 Oct 2016 16:30

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.0	80.1	120.1
160	46.6	36.3	54.5

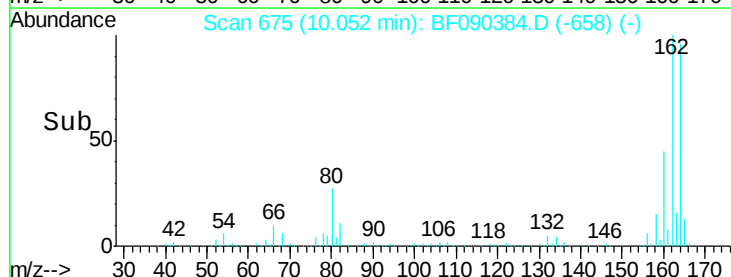
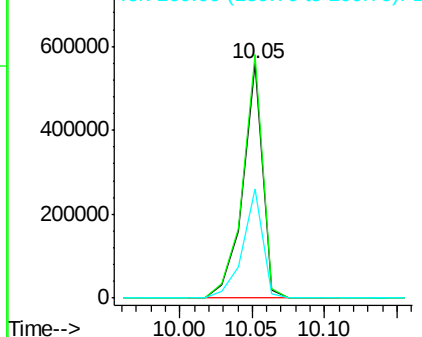


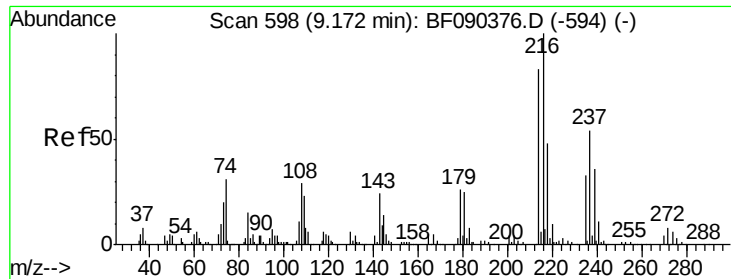
Abundance

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



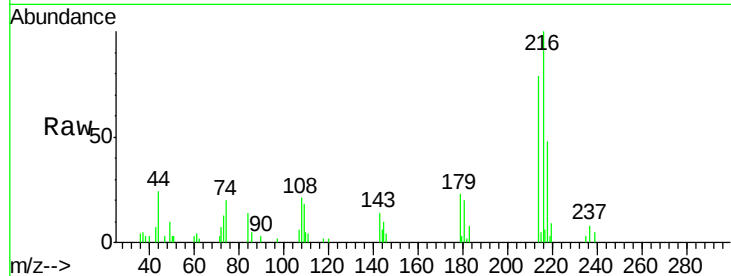


#39
1,2,4,5-Tetrachlorobenzene
Concen: 0.91 ng
RT: 9.17 min Scan# 598
Delta R.T. -0.00 min
Lab File: BF090384.D
Acq: 5 Oct 2016 16:30

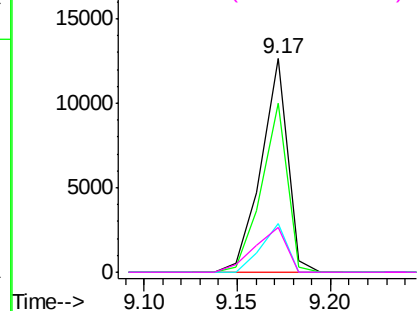
Instrument :
BNA_F
ClientSampleId :
LOD-SOIL2016-01-QT4

Tot Ion:	216	Resp:	12707
Ion Ratio		Lower	Upper
216	100		
214	77.4	64.2	96.2
179	21.6	18.0	27.0
108	25.3	15.2	22.8

Manual Integrations
APPROVED

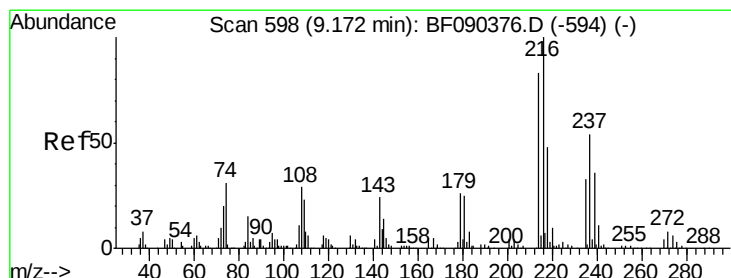
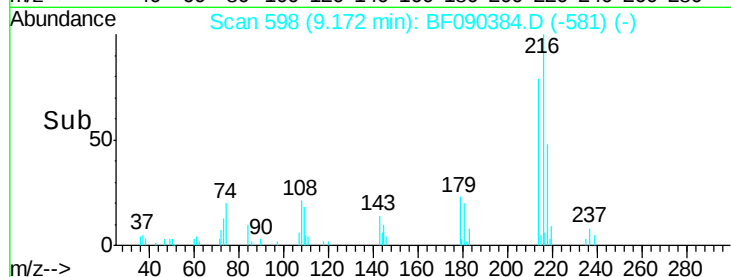


Abundance Ion 216.00 (215.70 to 216.70): E
Ion 214.00 (213.70 to 214.70): E
Ion 179.00 (178.70 to 179.70): E
Ion 108.00 (107.70 to 108.70): E



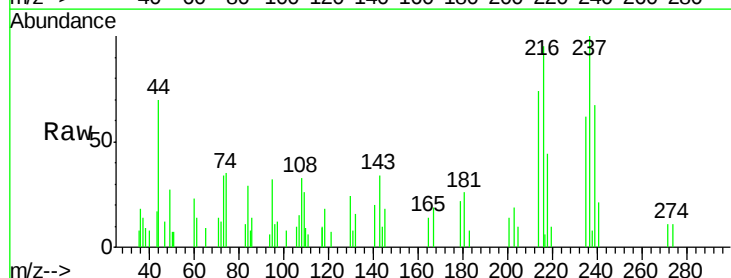
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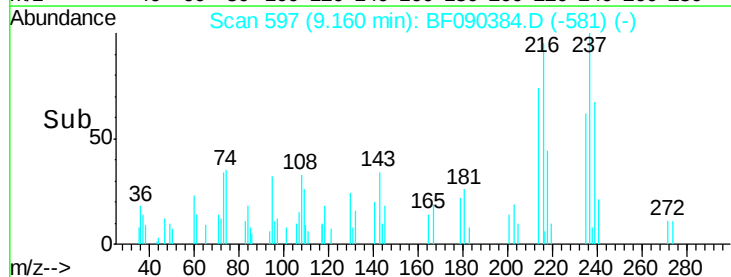
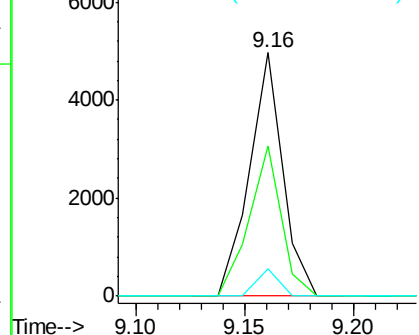


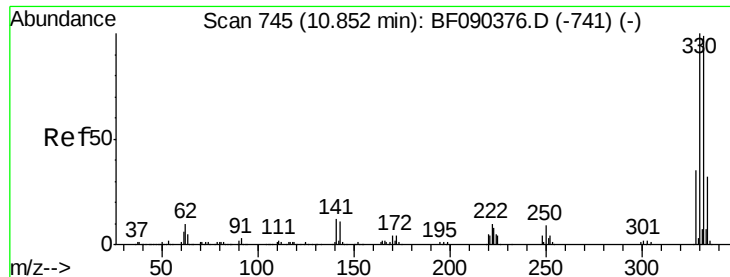
#40
Hexachlorocyclopentadiene
Concen: 0.69 ng
RT: 9.16 min Scan# 597
Delta R.T. -0.01 min
Lab File: BF090384.D
Acq: 5 Oct 2016 16:30

Tgt Ion:	237	Resp:	5267
Ion Ratio		Lower	Upper
237	100		
235	61.6	43.6	83.6
272	11.0	0.0	32.7



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



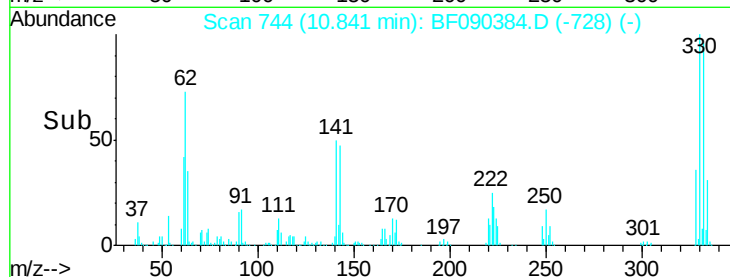
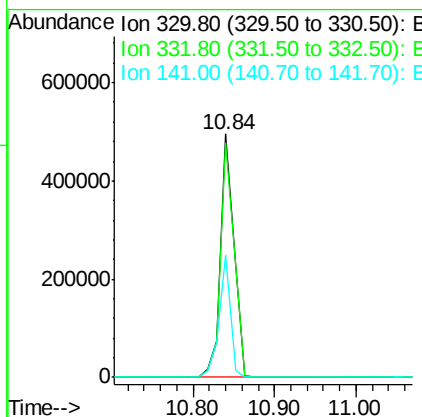
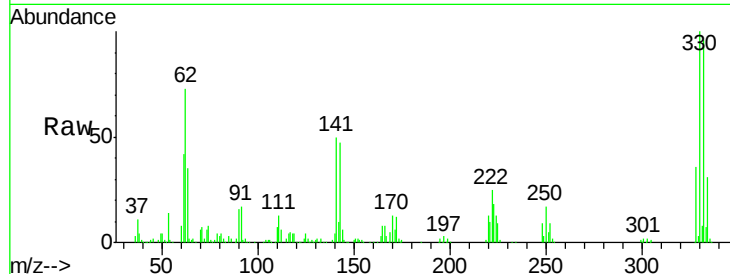


#41
 2,4,6-Tribromophenol
 Concen: 130.53 ng
 RT: 10.84 min Scan# 744
 Delta R.T. -0.01 min
 Lab File: BF090384.D
 Acq: 5 Oct 2016 16:30

Instrument :
 BNA_F
 ClientSampleId :
 LOD-SOIL2016-01-QT4

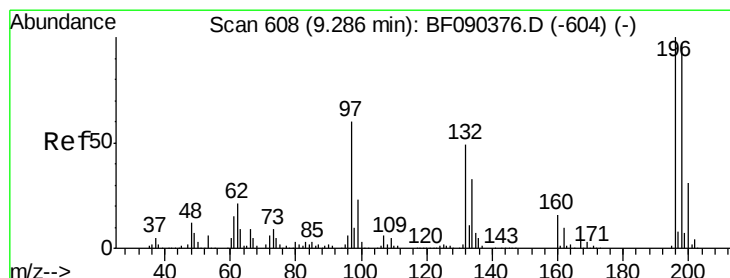
Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	97.1	75.4	113.0	
141	42.9	26.9	40.3	

Manual Integrations
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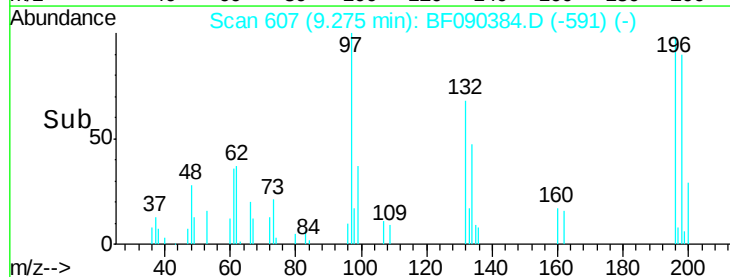
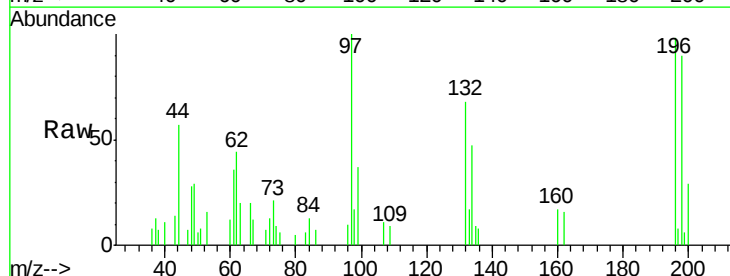
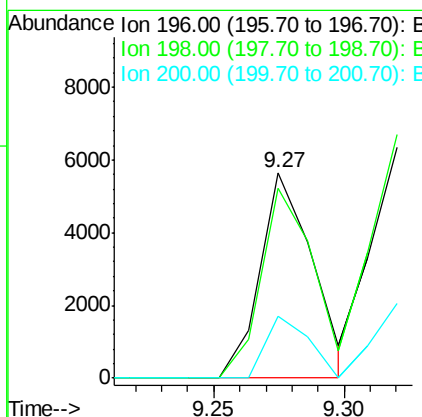
SOHIL

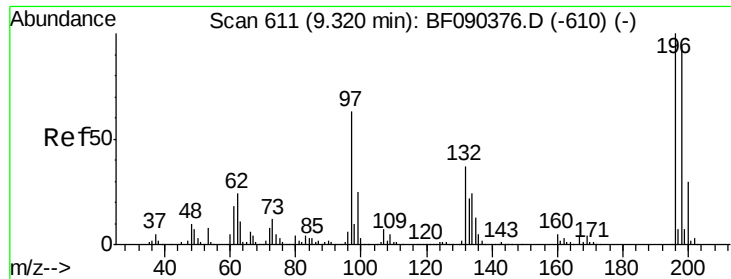
10/6/2016 5:27:31 PM



#42
 2,4,6-Trichlorophenol
 Concen: 0.82 ng
 RT: 9.27 min Scan# 607
 Delta R.T. -0.01 min
 Lab File: BF090384.D
 Acq: 5 Oct 2016 16:30

Tgt Ion	Ratio	Resp	Lower	Upper
196	100			
198	92.3	78.9	118.3	
200	30.0	25.4	38.2	



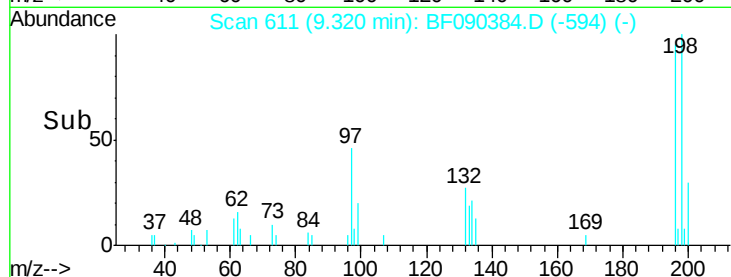
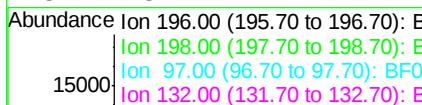
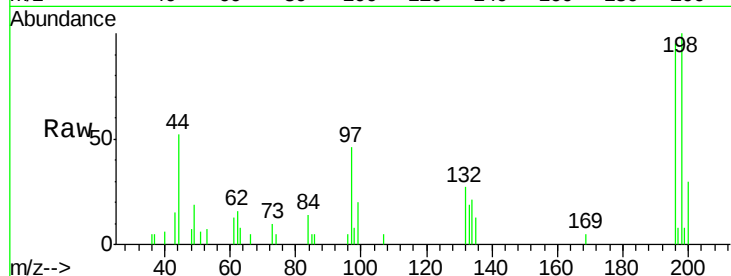


#43
 2,4,5-Trichlorophenol
 Concen: 0.76 ng
 RT: 9.32 min Scan# 611
 Delta R.T. -0.00 min
 Lab File: BF090384.D
 Acq: 5 Oct 2016 16:30

Instrument :
 BNA_F
 ClientSampleId :
 LOD-SOIL2016-01-QT4

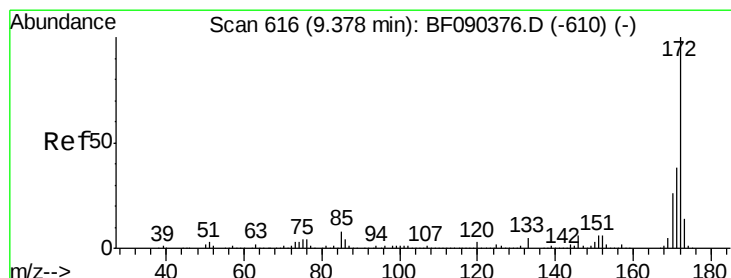
Tot Ion:	196	Resp:	6957
Ion Ratio	Lower	Upper	
196	100		
198	105.3	78.1	117.1
97	48.1	48.1	72.1#
132	28.7	27.4	41.2

Manual Integrations
 APPROVED



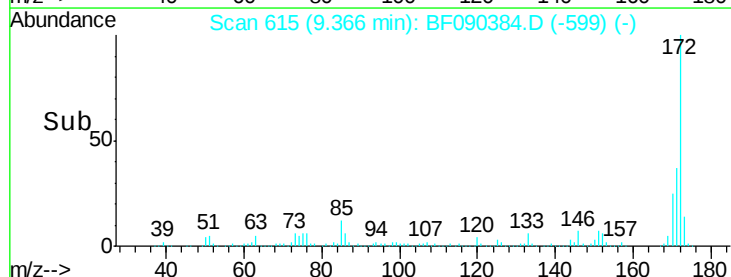
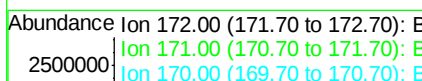
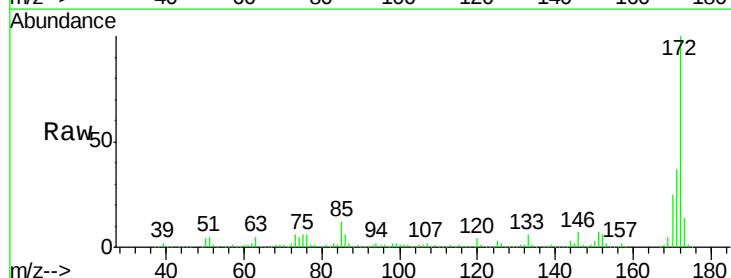
SOHIL

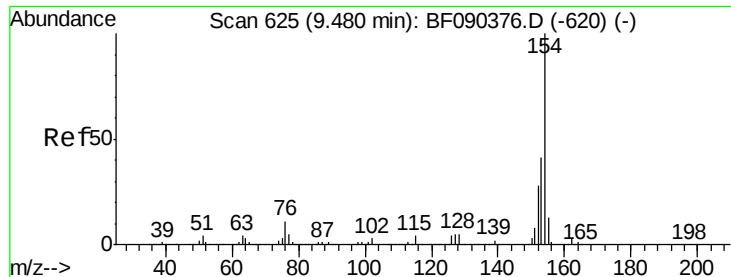
10/6/2016 5:27:31 PM



#44
 2-Fluorobiphenyl
 Concen: 84.68 ng
 RT: 9.37 min Scan# 615
 Delta R.T. -0.01 min
 Lab File: BF090384.D
 Acq: 5 Oct 2016 16:30

Tgt Ion:	172	Resp:	2693523
Ion Ratio	Lower	Upper	
172	100		
171	37.1	31.8	47.8
170	25.4	21.7	32.5





#45

1,1'-Biphenyl

Concen: 1.06 ng

RT: 9.47 min Scan# 624

Delta R.T. -0.01 min

Lab File: BF090384.D

Acq: 5 Oct 2016 16:30

Instrument :

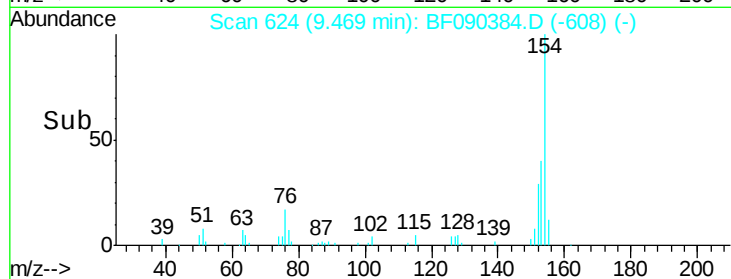
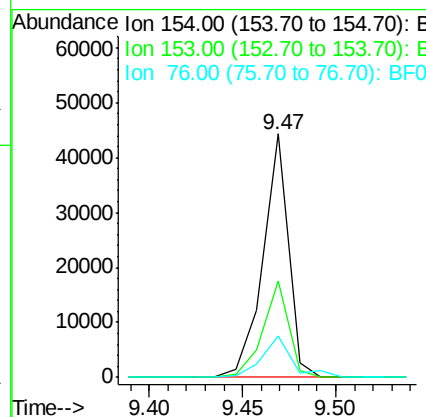
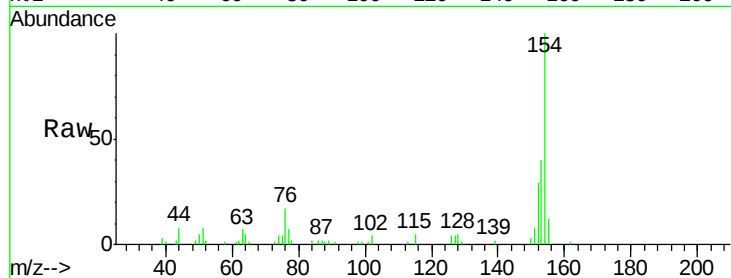
BNA_F

ClientSampleId :

LOD-SOIL2016-01-QT4

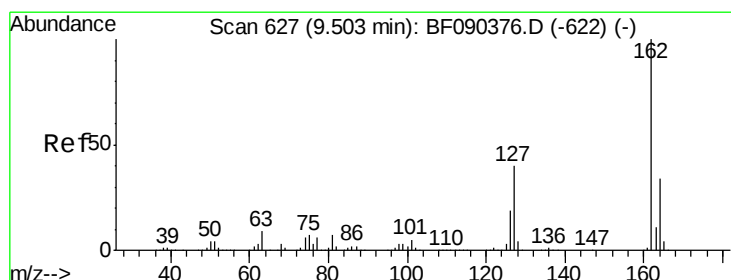
Tot Ion:	154	Resp:	41577
Ion Ratio	Lower	Upper	
154	100		
153	39.6	23.8	63.8
76	16.9	0.0	35.8

Manual Integrations
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10/6/2016 5:27:31 PM



#46

2-Chloronaphthalene

Concen: 1.00 ng

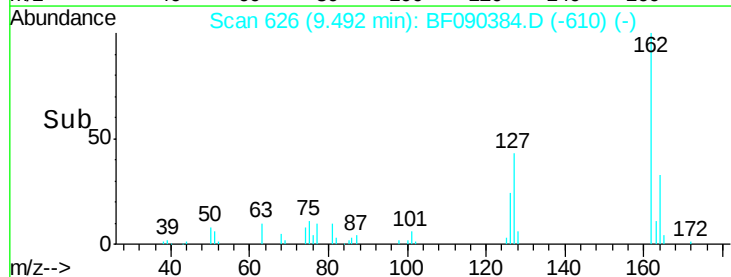
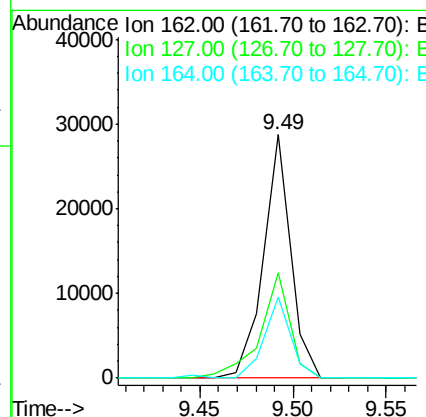
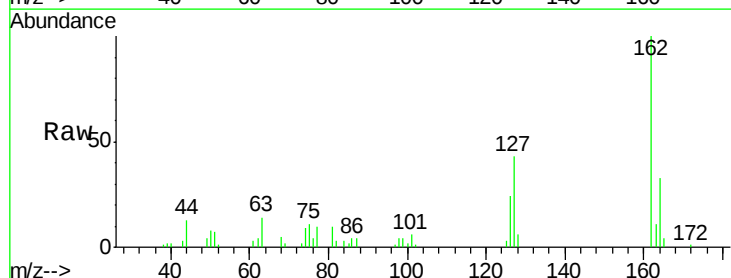
RT: 9.49 min Scan# 626

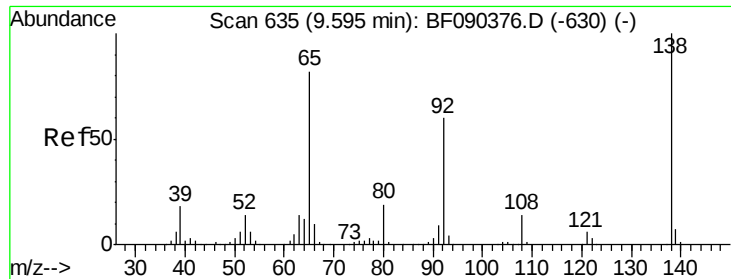
Delta R.T. -0.01 min

Lab File: BF090384.D

Acq: 5 Oct 2016 16:30

Tgt Ion:	162	Resp:	28886
Ion Ratio	Lower	Upper	
162	100		
127	43.4	35.6	53.4
164	33.1	27.5	41.3



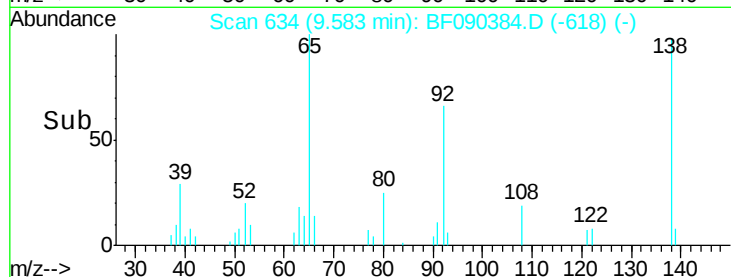
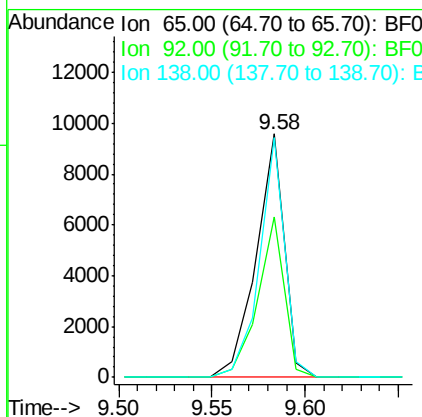
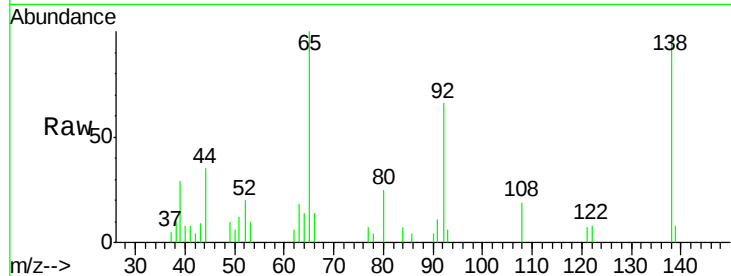


#47
2-Nitroaniline
Concen: 0.87 ng
RT: 9.58 min Scan# 634
Delta R.T. -0.01 min
Lab File: BF090384.D
Acq: 5 Oct 2016 16:30

Instrument :
BNA_F
ClientSampleId :
LOD-SOIL2016-01-QT4

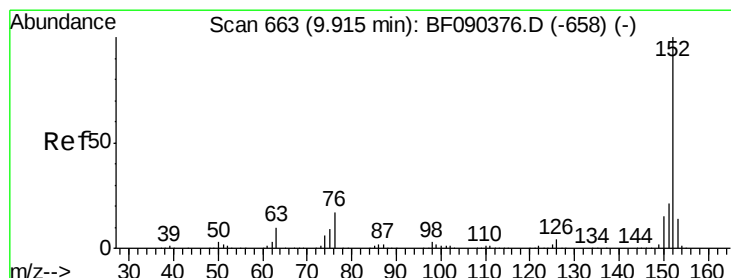
Tot Ion	Ratio	Lower	Upper
65	100		
92	66.1	51.7	77.5
138	98.3	79.0	118.4

Manual Integrations
APPROVED



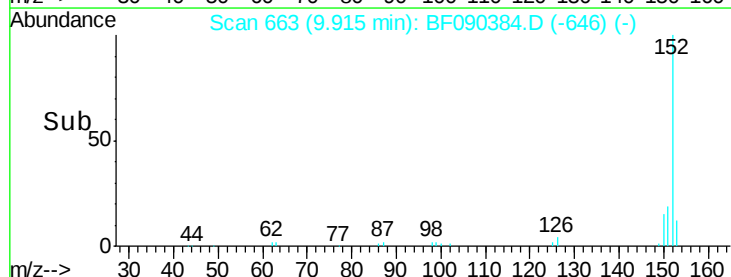
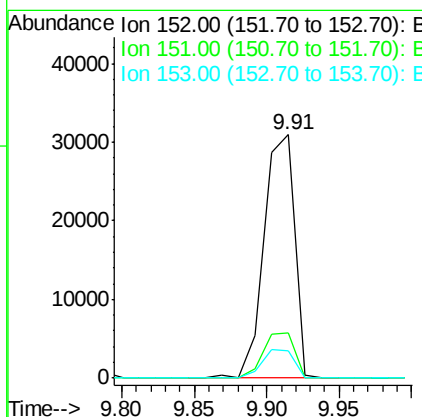
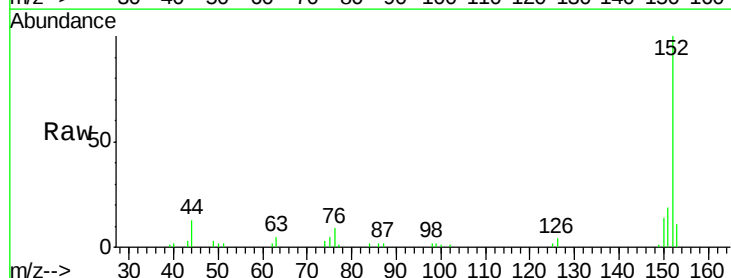
SOHIL

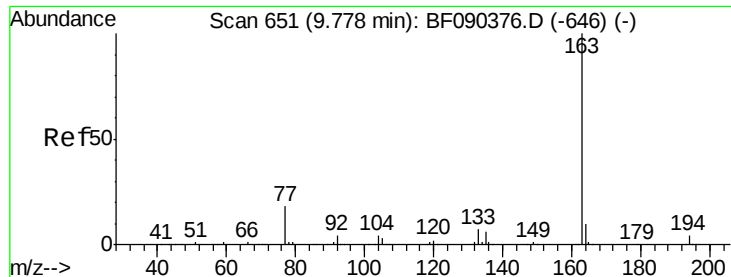
10/6/2016 5:27:31 PM



#48
Acenaphthylene
Concen: 0.94 ng
RT: 9.91 min Scan# 663
Delta R.T. -0.00 min
Lab File: BF090384.D
Acq: 5 Oct 2016 16:30

Tgt Ion	Ratio	Lower	Upper
152	100		
151	18.5	17.4	26.0
153	11.4	11.6	17.4#



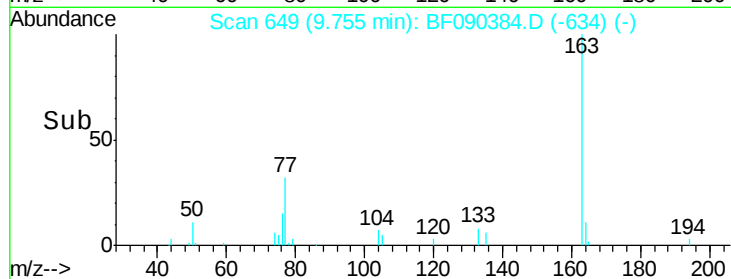
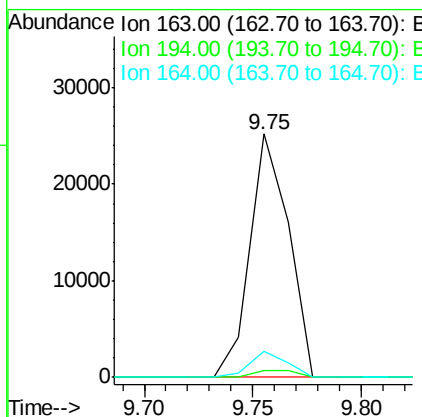
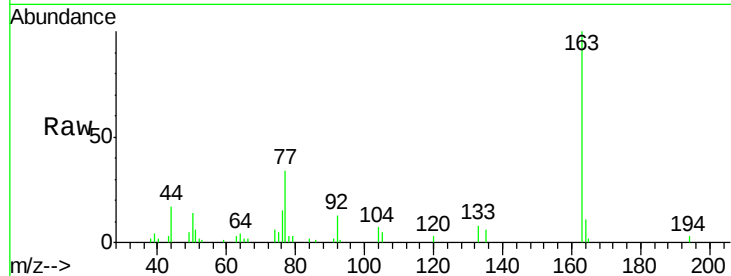


#49
Dimethylphthalate
Concen: 0.92 ng
RT: 9.75 min Scan# 649
Delta R.T. -0.02 min
Lab File: BF090384.D
Acq: 5 Oct 2016 16:30

Instrument :
BNA_F
ClientSampleId :
LOD-SOIL2016-01-QT4

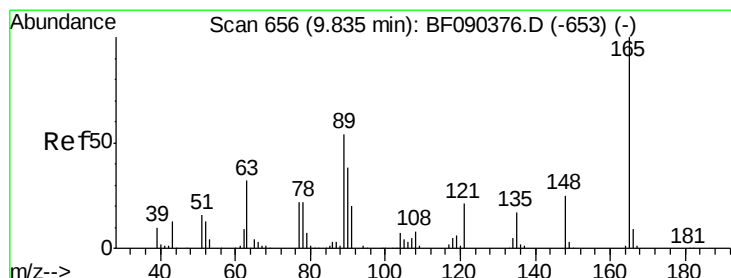
Tot Ion:	163	Resp:	31202
Ion Ratio	Lower	Upper	
163	100		
194	2.8	2.8	4.2
164	10.9	9.0	13.4

Manual Integrations
APPROVED



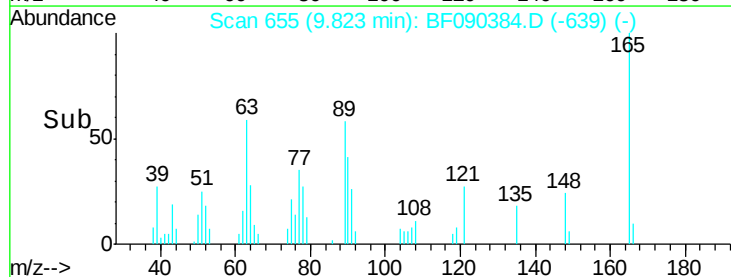
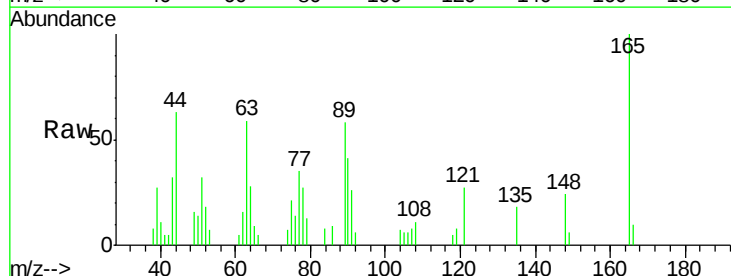
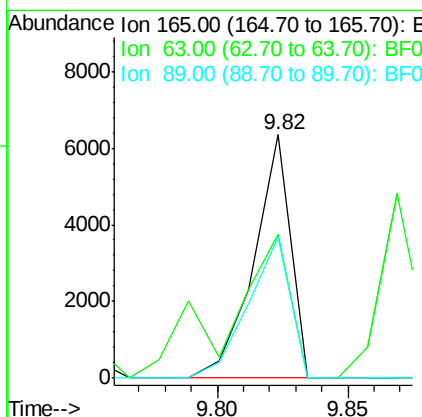
SOHIL

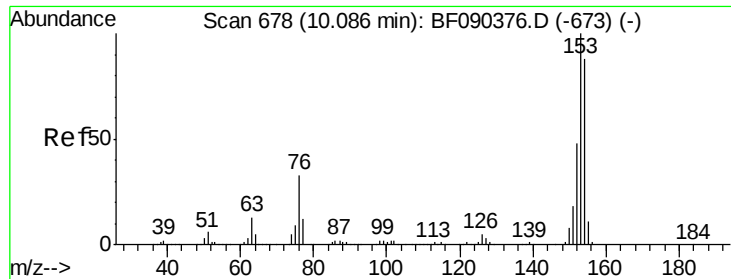
10/6/2016 5:27:31 PM



#50
2,6-Dinitrotoluene
Concen: 0.83 ng
RT: 9.82 min Scan# 655
Delta R.T. -0.01 min
Lab File: BF090384.D
Acq: 5 Oct 2016 16:30

Tgt Ion:	165	Resp:	6240
Ion Ratio	Lower	Upper	
165	100		
63	59.3	58.0	87.0
89	57.8	51.2	76.8





#51

Acenaphthene

Concen: 0.96 ng

RT: 10.09 min Scan# 678

Delta R.T. -0.00 min

Lab File: BF090384.D

Acq: 5 Oct 2016 16:30

Instrument :

BNA_F

ClientSampleId :

LOD-SOIL2016-01-QT4

Tot Ion:154 Resp: 28770

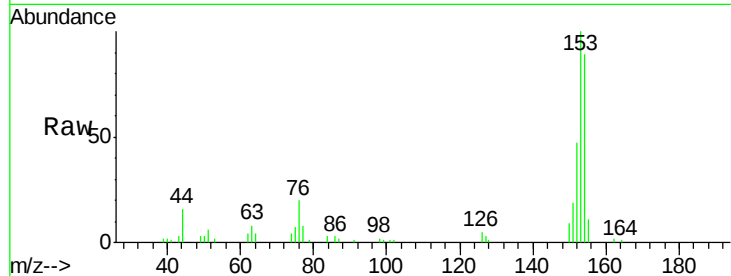
Ion Ratio Lower Upper

154 100

153 112.8 88.6 133.0

152 52.7 42.6 64.0

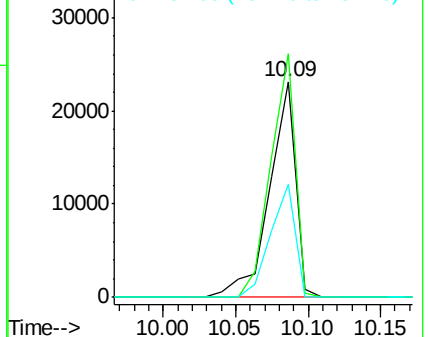
Manual Integrations
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Abundance Ion 154.00 (153.70 to 154.70): E

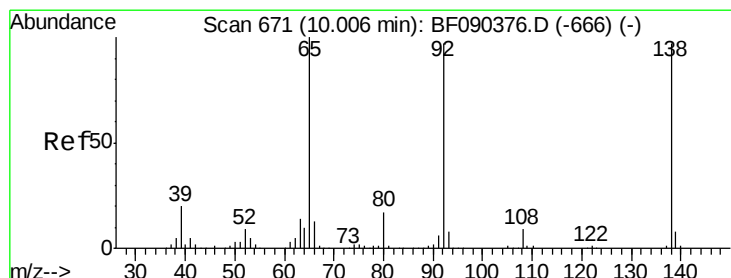
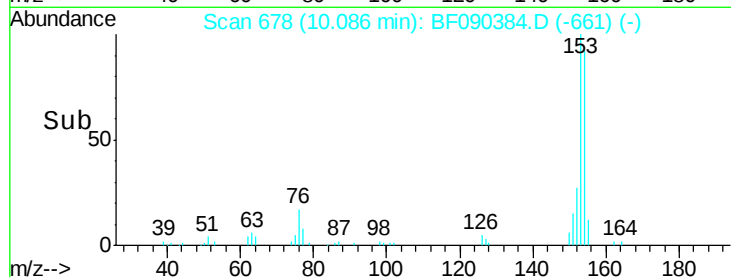
Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



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#52

3-Nitroaniline

Concen: 0.78 ng

RT: 9.98 min Scan# 669

Delta R.T. -0.02 min

Lab File: BF090384.D

Acq: 5 Oct 2016 16:30

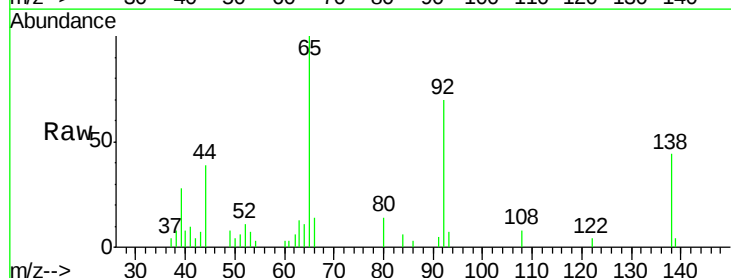
Tgt Ion:138 Resp: 6854

Ion Ratio Lower Upper

138 100

108 18.0 9.7 14.5#

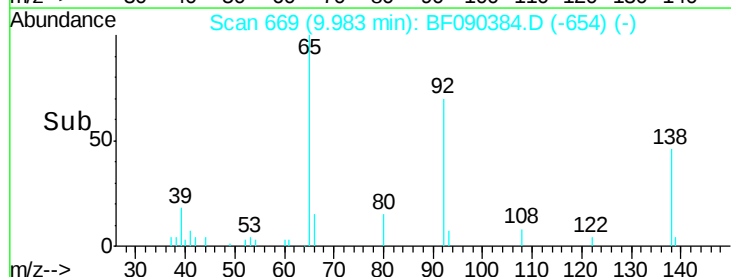
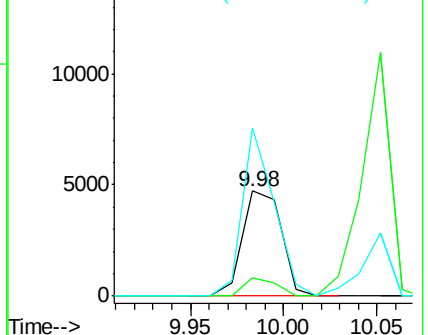
92 160.2 97.1 145.7#

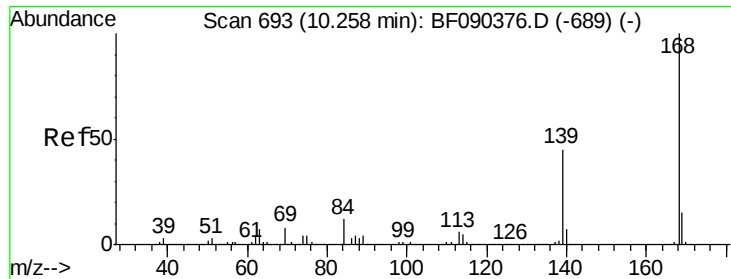


Abundance Ion 138.00 (137.70 to 138.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 92.00 (91.70 to 92.70): BF0



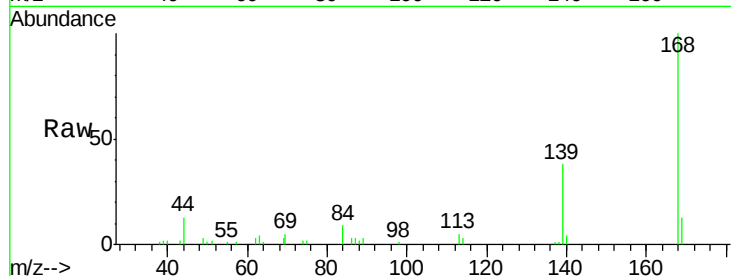


#54
Dibenzenofuran
Concen: 0.97 ng
RT: 10.26 min Scan# 693
Delta R.T. -0.00 min
Lab File: BF090384.D
Acq: 5 Oct 2016 16:30

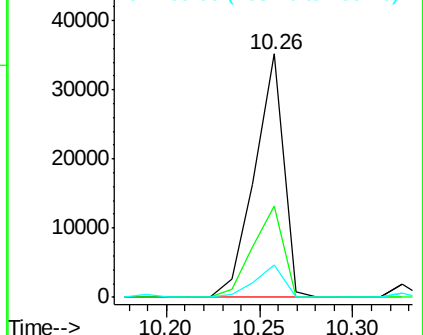
Instrument :
BNA_F
ClientSampleId :
LOD-SOIL2016-01-QT4

Tot Ion	Ratio	Lower	Upper
168	100		
139	37.6	29.6	44.4
169	13.2	11.3	16.9

Manual Integrations
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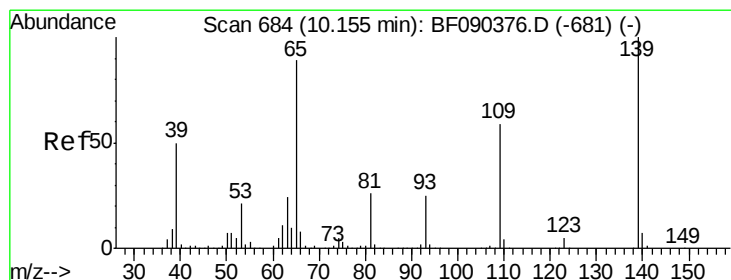
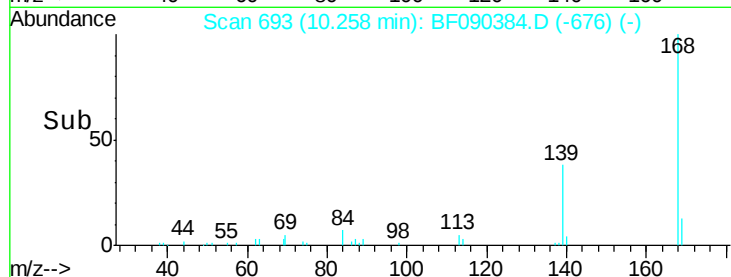


Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E



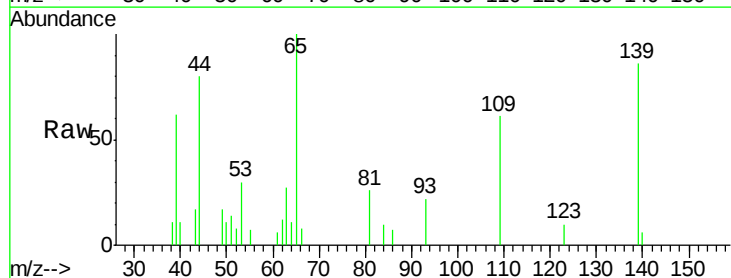
SOHIL

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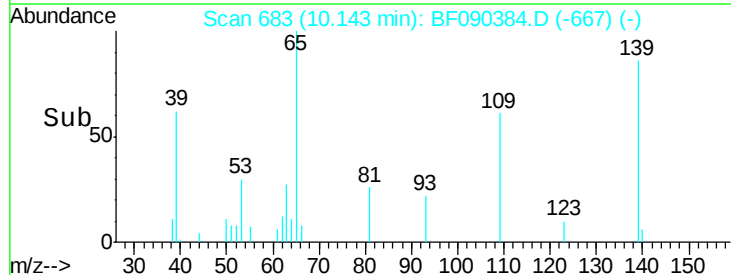
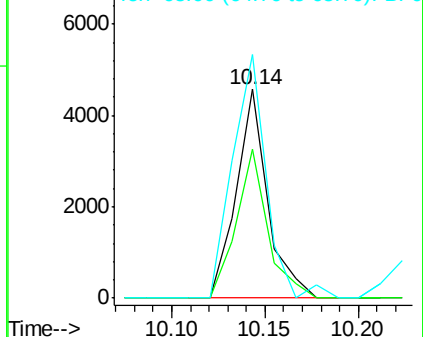


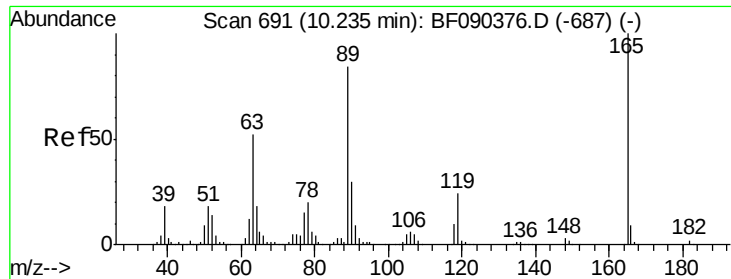
#55
4-Nitrophenol
Concen: 0.70 ng
RT: 10.14 min Scan# 683
Delta R.T. -0.01 min
Lab File: BF090384.D
Acq: 5 Oct 2016 16:30

Tgt Ion	Ratio	Lower	Upper
139	100		
109	71.0	43.6	83.6
65	116.6	87.5	127.5



Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BF0



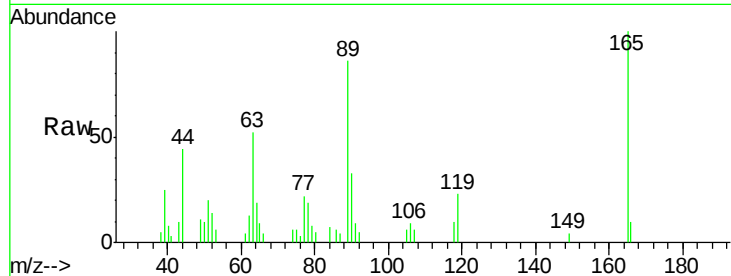


#56
2,4-Dinitrotoluene
Concen: 0.78 ng
RT: 10.22 min Scan# 690
Delta R.T. -0.01 min
Lab File: BF090384.D
Acq: 5 Oct 2016 16:30

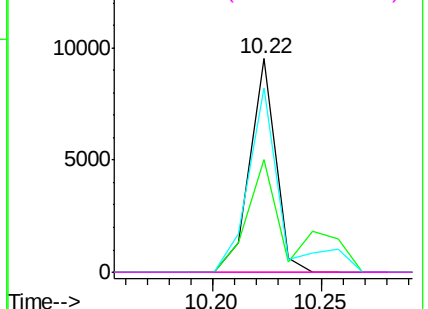
Instrument :
BNA_F
ClientSampleId :
LOD-SOIL2016-01-QT4

Tot Ion	Ratio	Lower	Upper
165	100		
63	52.5	17.8	26.6#
89	86.0	33.2	49.8#
182	0.0	2.1	3.1#

Manual Integrations
APPROVED

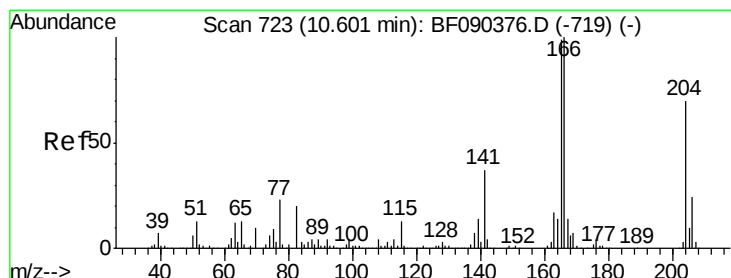
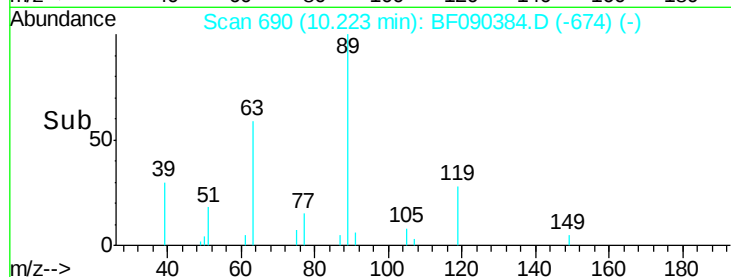


Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF0
Ion 89.00 (88.70 to 89.70): BF0
Ion 182.00 (181.70 to 182.70): E



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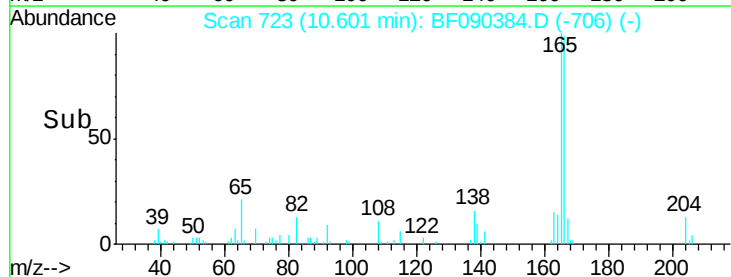
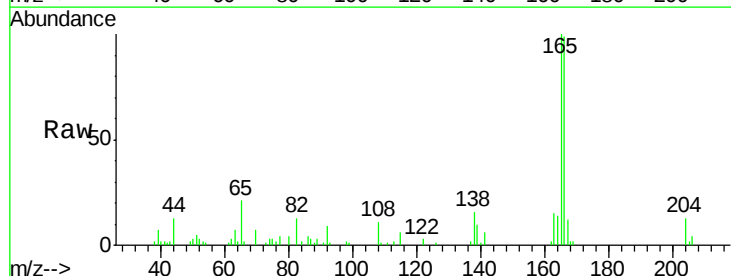
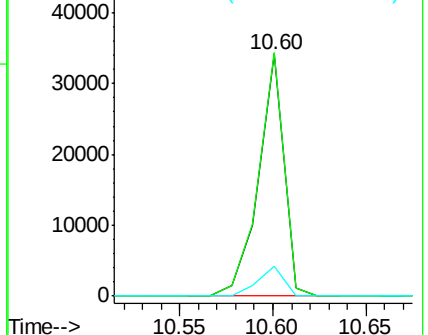
10/6/2016 5:27:31 PM

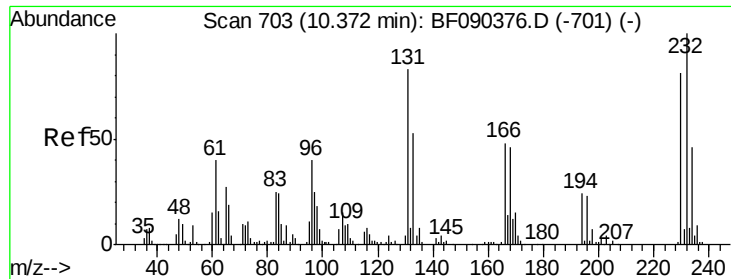


#57
Fluorene
Concen: 0.99 ng
RT: 10.60 min Scan# 723
Delta R.T. -0.00 min
Lab File: BF090384.D
Acq: 5 Oct 2016 16:30

Tgt Ion	Ratio	Lower	Upper
166	100		
165	100.7	79.2	118.8
167	12.5	11.1	16.7

Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E



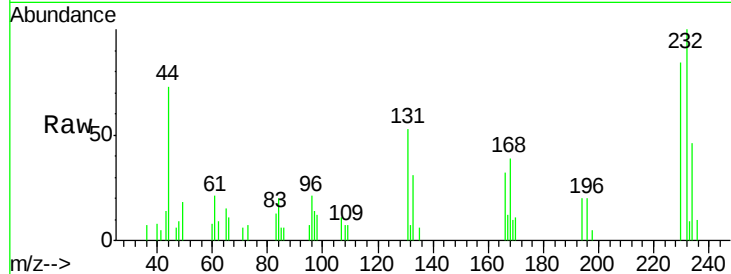


#58
2,3,4,6-Tetrachlorophenol
Concen: 0.76 ng
RT: 10.37 min Scan# 703
Delta R.T. -0.00 min
Lab File: BF090384.D
Acq: 5 Oct 2016 16:30

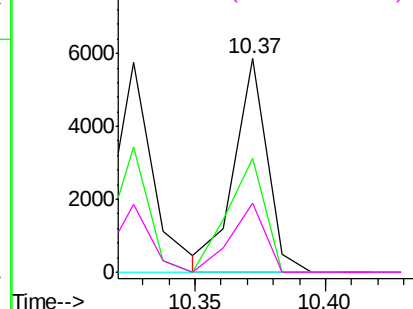
Instrument :
BNA_F
ClientSampleId :
LOD-SOIL2016-01-QT4

Tot Ion:232 Resp: 5172
Ion Ratio Lower Upper
232 100
131 60.8 34.5 51.7#
130 0.0 1.6 2.4#
166 33.6 23.8 35.8

Manual Integrations
APPROVED

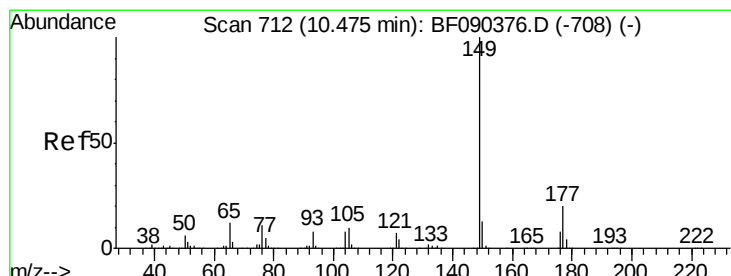
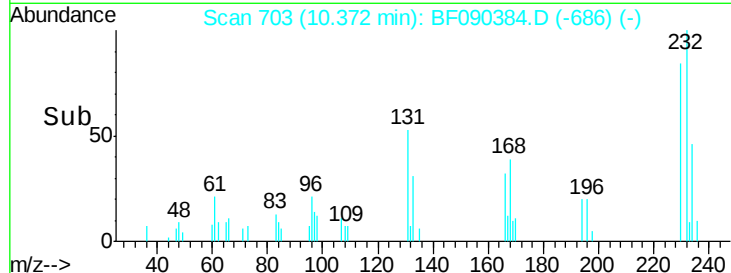


Abundance Ion 232.00 (231.70 to 232.70): E
Ion 131.00 (130.70 to 131.70): E
Ion 130.00 (129.70 to 130.70): E
Ion 166.00 (165.70 to 166.70): E



SOHIL

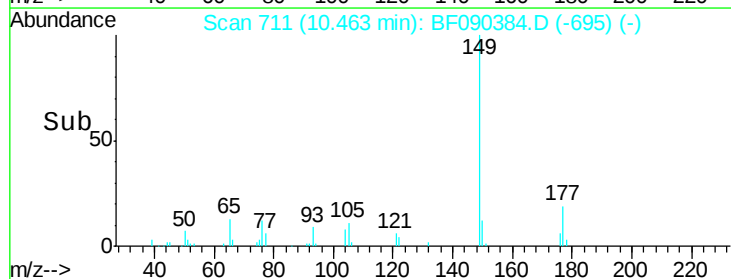
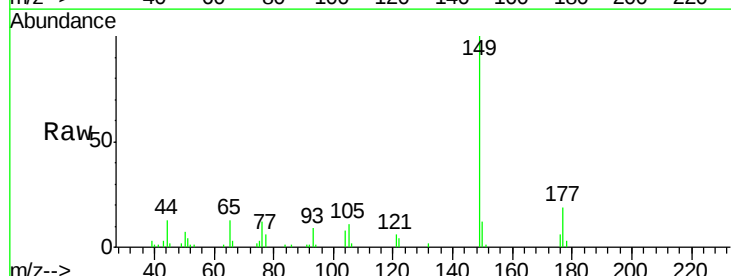
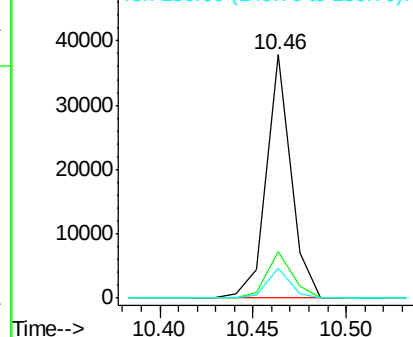
10/6/2016 5:27:31 PM

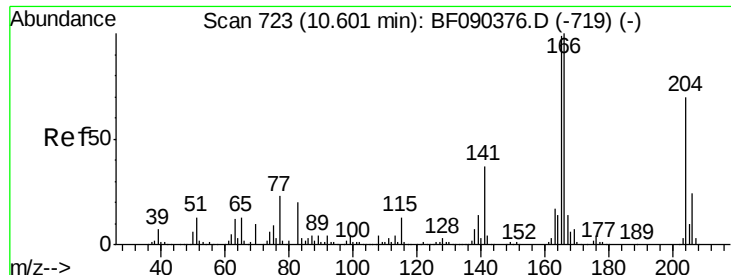


#59
Diethylphthalate
Concen: 0.98 ng
RT: 10.46 min Scan# 711
Delta R.T. -0.01 min
Lab File: BF090384.D
Acq: 5 Oct 2016 16:30

Tgt Ion:149 Resp: 34280
Ion Ratio Lower Upper
149 100
177 19.2 21.1 31.7#
150 12.1 10.2 15.2

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



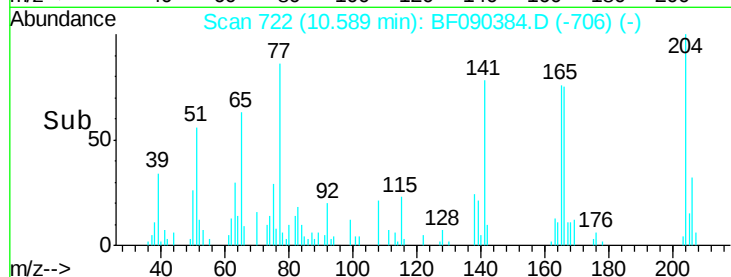
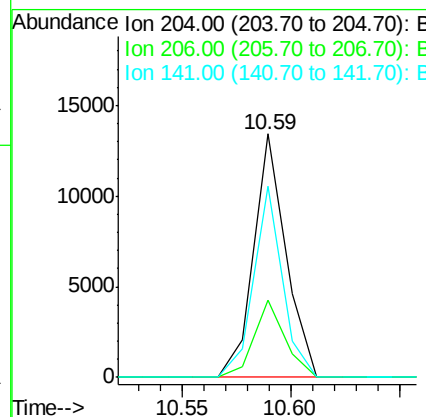
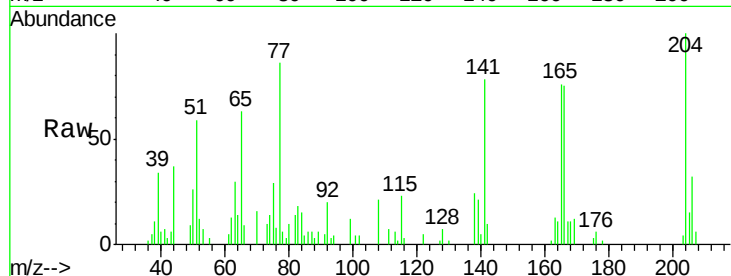


#60
 4-Chlorophenyl-phenylether
 Concen: 0.93 ng
 RT: 10.59 min Scan# 722
 Delta R.T. -0.01 min
 Lab File: BF090384.D
 Acq: 5 Oct 2016 16:30

Instrument :
 BNA_F
 ClientSampleId :
 LOD-SOIL2016-01-QT4

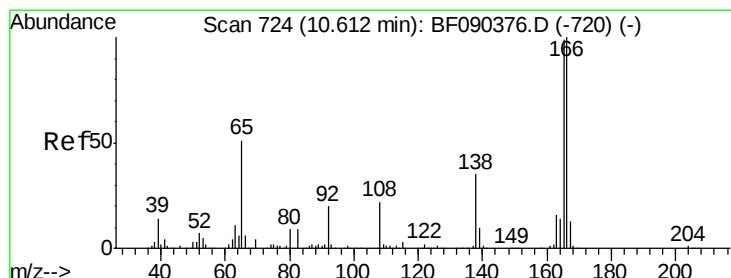
Tot Ion	Ratio	Lower	Upper
204	100		
206	31.9	26.7	40.1
141	78.3	51.7	77.5

Manual Integrations
 APPROVED



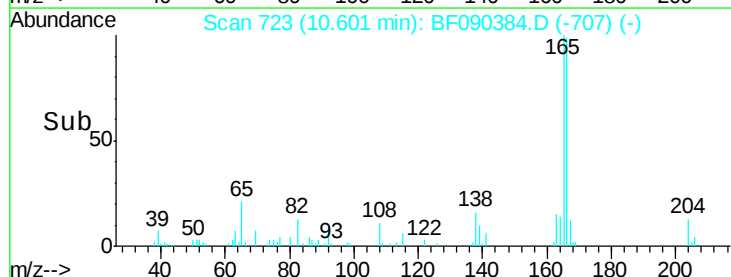
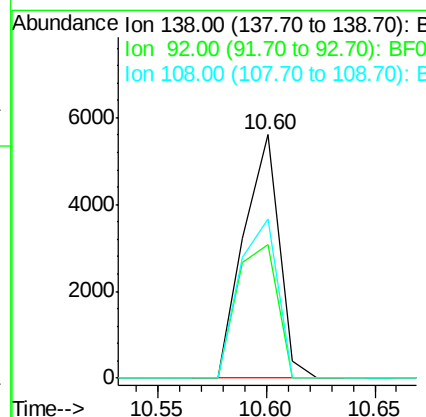
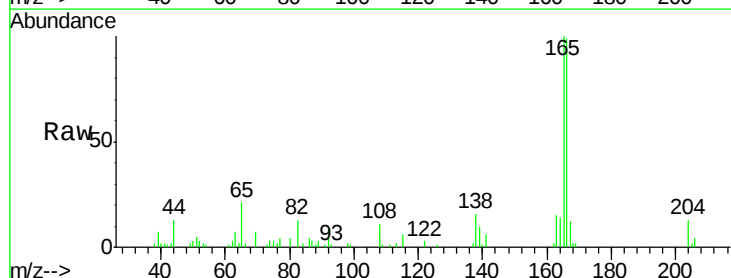
SOHIL

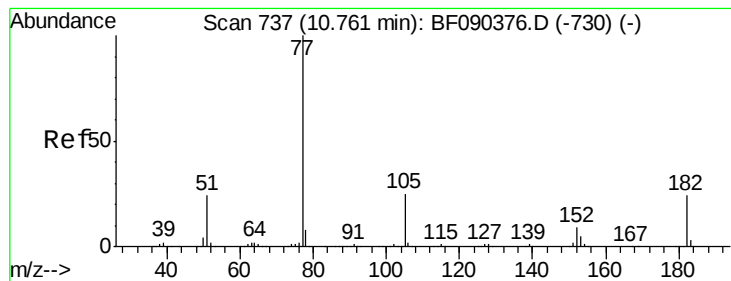
10/6/2016 5:27:31 PM



#61
 4-Nitroaniline
 Concen: 0.71 ng
 RT: 10.60 min Scan# 723
 Delta R.T. -0.01 min
 Lab File: BF090384.D
 Acq: 5 Oct 2016 16:30

Tgt Ion	Ratio	Lower	Upper
138	100		
92	54.7	33.2	73.2
108	65.2	48.5	88.5





#62

Azobenzene

Concen: 0.95 ng

RT: 10.75 min Scan# 736

Delta R.T. -0.01 min

Lab File: BF090384.D

Acq: 5 Oct 2016 16:30

Instrument :

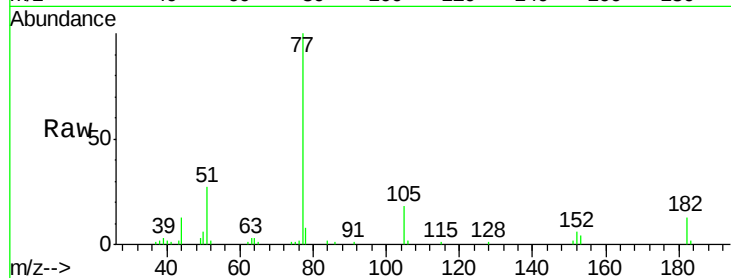
BNA_F

ClientSampleId :

LOD-SOIL2016-01-QT4

Tot Ion	Ion	Ratio	Resp	Lower	Upper
77	100				
182	12.7	3.2	43.2		
105	18.3	2.9	42.9		
51	27.4	14.2	54.2		

Manual Integrations
APPROVED

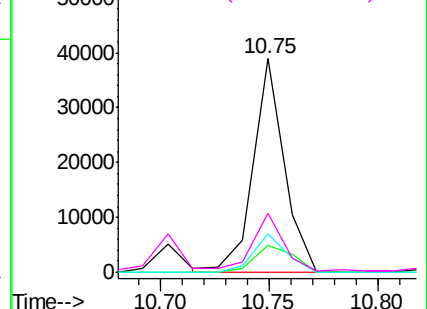
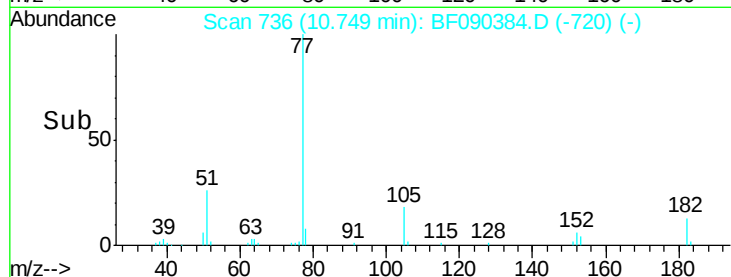


Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 182.00 (181.70 to 182.70): BF0

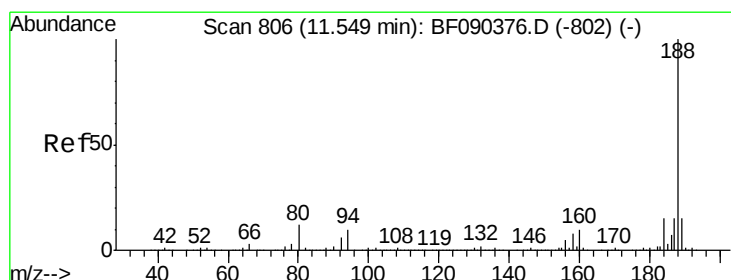
Ion 105.00 (104.70 to 105.70): BF0

Ion 51.00 (50.70 to 51.70): BF0



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#63

Phenanthrene-d10

Concen: 20.00 ng

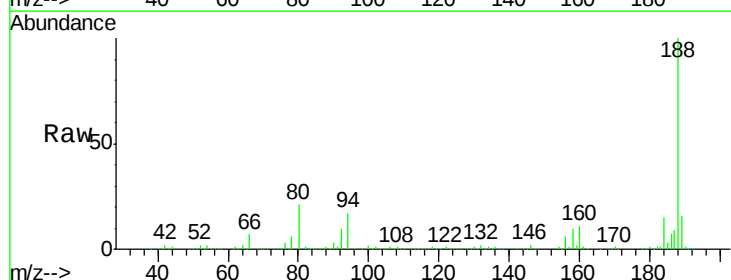
RT: 11.54 min Scan# 805

Delta R.T. -0.01 min

Lab File: BF090384.D

Acq: 5 Oct 2016 16:30

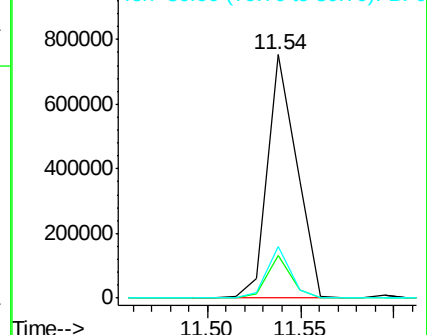
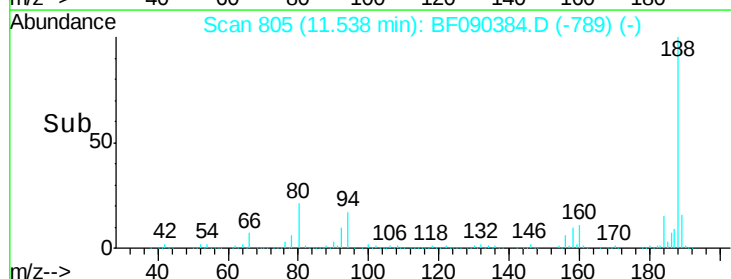
Tgt Ion	Ion	Ratio	Resp	Lower	Upper
188	100				
94	17.3	8.2	12.2#		
80	21.2	8.8	13.2#		

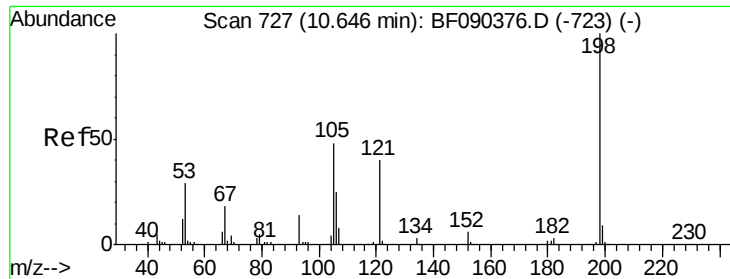


Abundance Ion 188.00 (187.70 to 188.70): BF0

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#64

4,6-Dinitro-2-methylphenol

Concen: 5.68 ng

RT: 10.63 min Scan# 726

Delta R.T. -0.01 min

Lab File: BF090384.D

Acq: 5 Oct 2016 16:30

Instrument :

BNA_F

ClientSampleId :

LOD-SOIL2016-01-QT4

Tot Ion:198 Resp: 1481

Ion Ratio Lower Upper

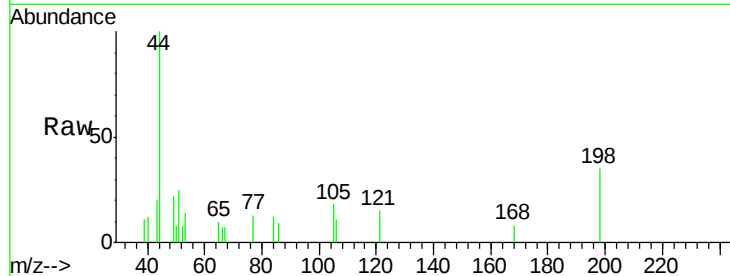
198 100

51 70.6 67.3 107.3

105 52.2 42.6 82.6

Manual Integrations

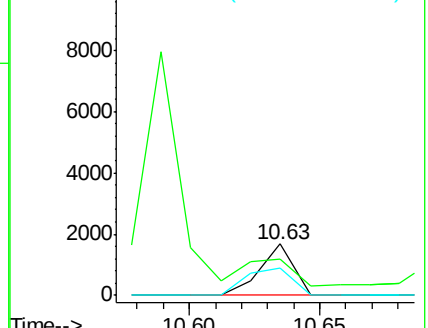
APPROVED



Abundance Ion 198.00 (197.70 to 198.70): E

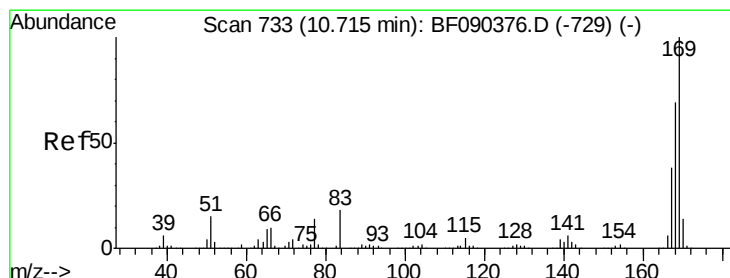
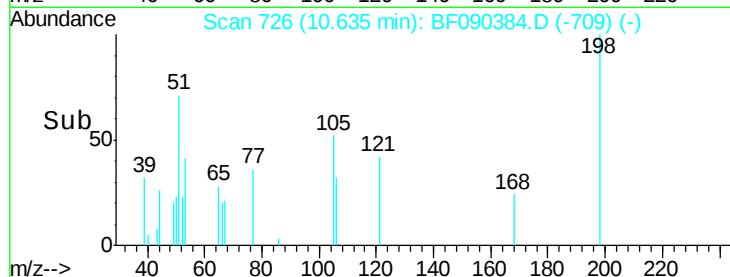
Ion 51.00 (50.70 to 51.70): BF0

Ion 105.00 (104.70 to 105.70): E



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#65

n-Nitrosodiphenylamine

Concen: 0.96 ng

RT: 10.70 min Scan# 732

Delta R.T. -0.01 min

Lab File: BF090384.D

Acq: 5 Oct 2016 16:30

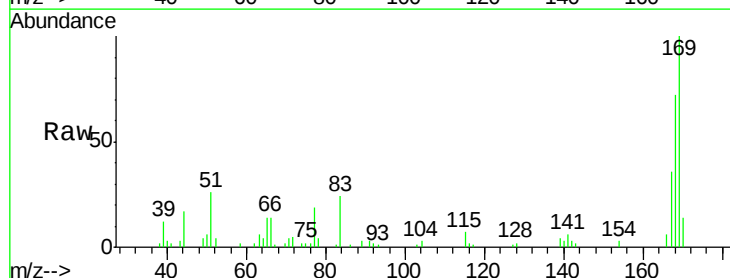
Tgt Ion:169 Resp: 26233

Ion Ratio Lower Upper

169 100

168 71.6 53.8 80.6

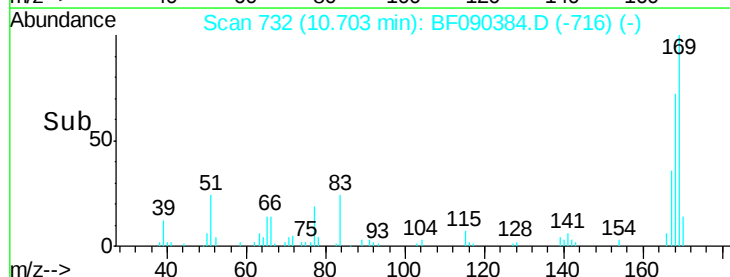
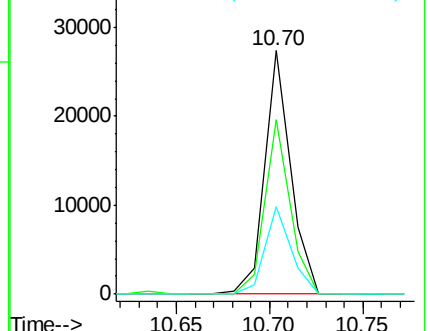
167 36.0 29.8 44.8

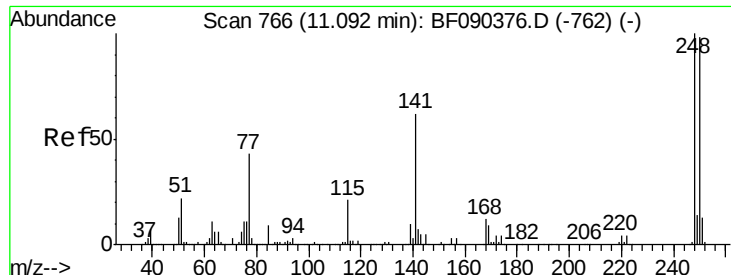


Abundance Ion 169.00 (168.70 to 169.70): E

Ion 168.00 (167.70 to 168.70): E

Ion 167.00 (166.70 to 167.70): E



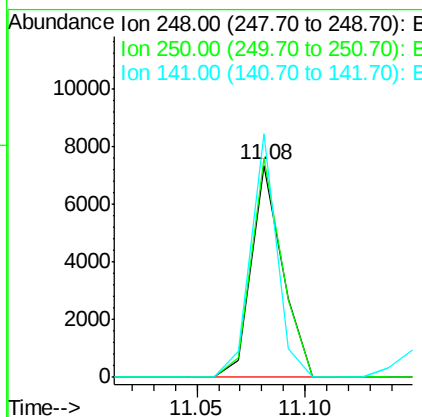
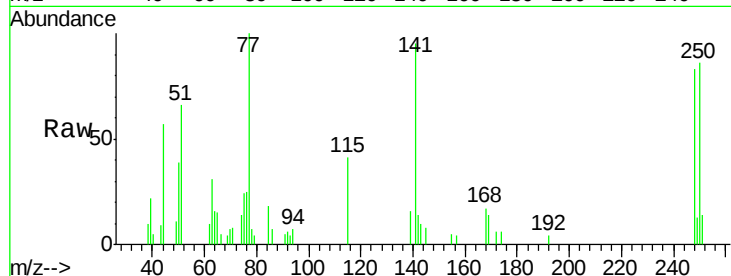


#66
4-Bromophenyl-phenylether
Concen: 0.91 ng
RT: 11.08 min Scan# 765
Delta R.T. -0.01 min
Lab File: BF090384.D
Acq: 5 Oct 2016 16:30

Instrument :
BNA_F
ClientSampleId :
LOD-SOIL2016-01-QT4

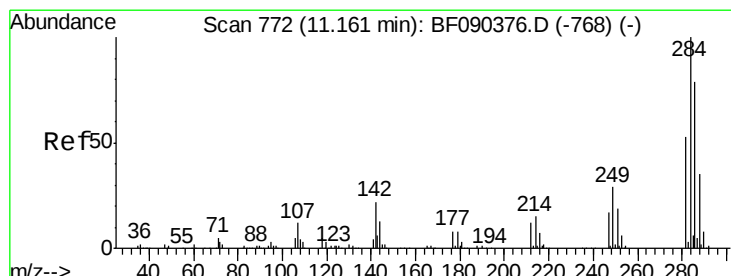
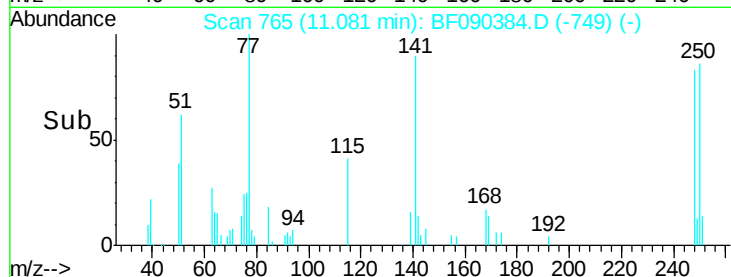
Tot Ion	Ratio	Lower	Upper
248	100		
250	103.5	76.5	114.7
141	114.8	59.8	89.6

Manual Integrations
APPROVED



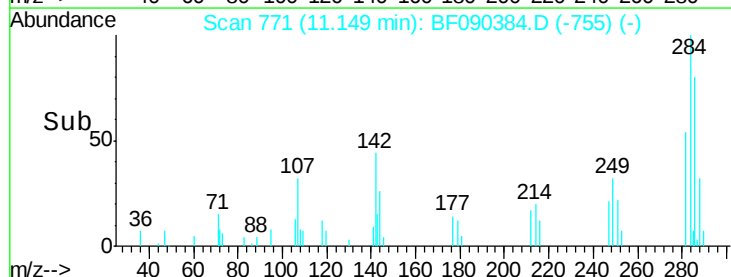
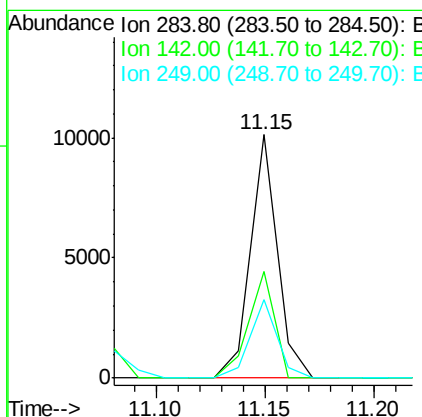
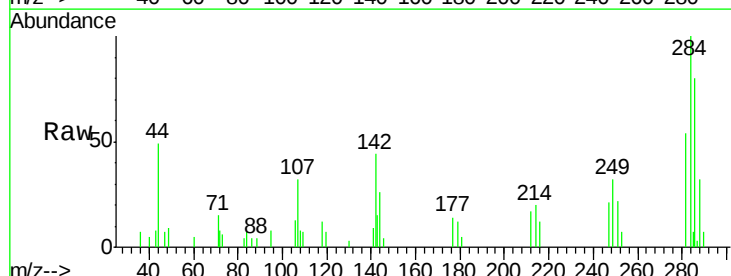
SOHIL

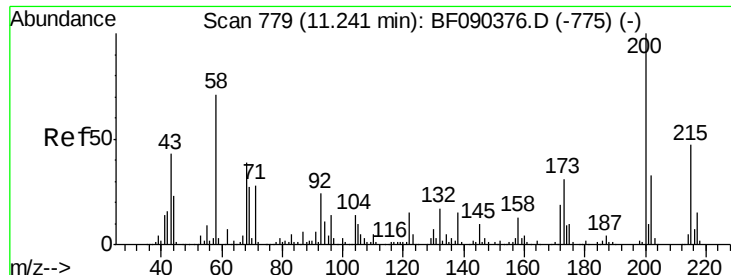
10/6/2016 5:27:31 PM



#67
Hexachlorobenzene
Concen: 0.99 ng
RT: 11.15 min Scan# 771
Delta R.T. -0.01 min
Lab File: BF090384.D
Acq: 5 Oct 2016 16:30

Tgt Ion	Ratio	Lower	Upper
284	100		
142	43.6	23.1	34.7
249	32.4	26.3	39.5



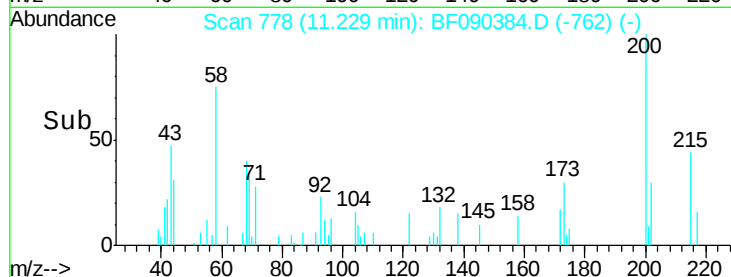
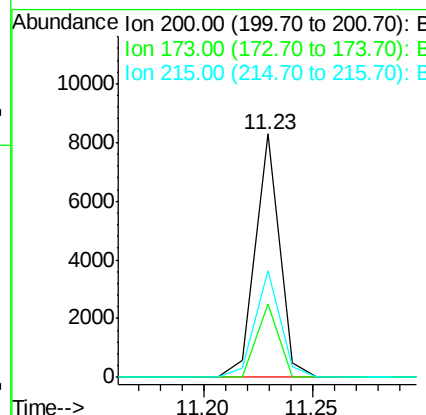
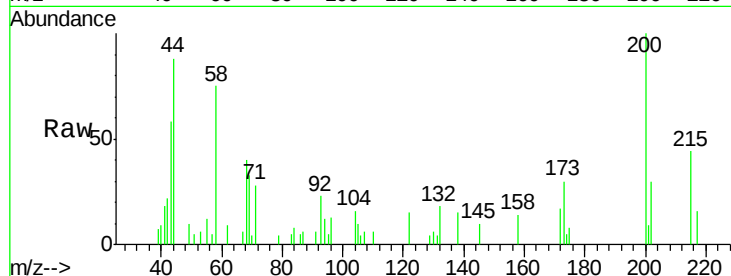


#68
Atrazine
Concen: 0.96 ng
RT: 11.23 min Scan# 778
Delta R.T. -0.01 min
Lab File: BF090384.D
Acq: 5 Oct 2016 16:30

Instrument :
BNA_F
ClientSampleId :
LOD-SOIL2016-01-QT4

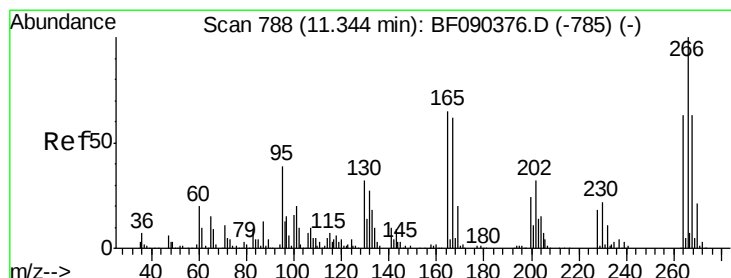
Tot Ion	Ratio	Lower	Upper
200	100		
173	30.0	9.0	49.0
215	43.8	24.8	64.8

Manual Integrations
APPROVED



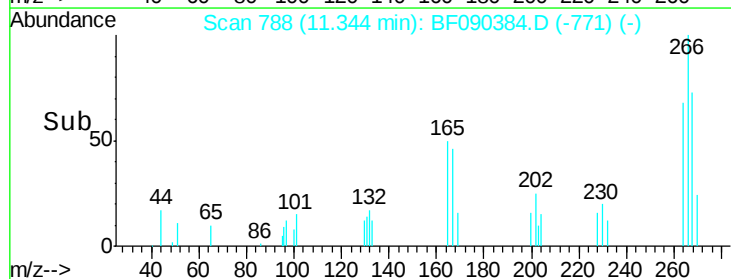
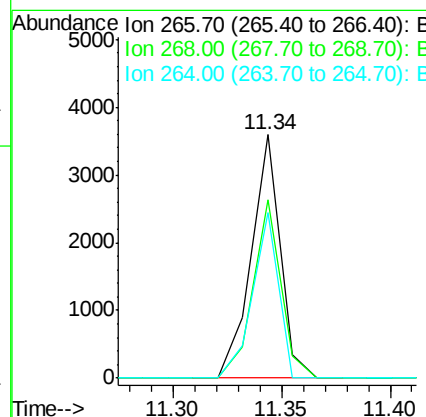
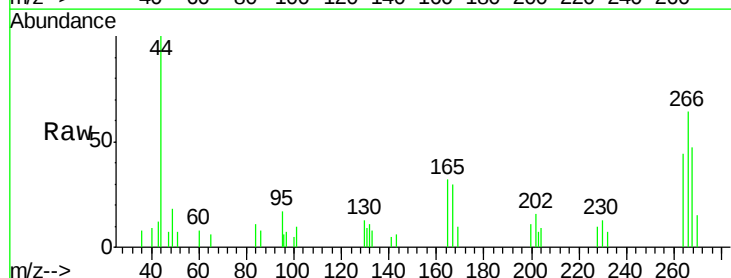
SOHIL

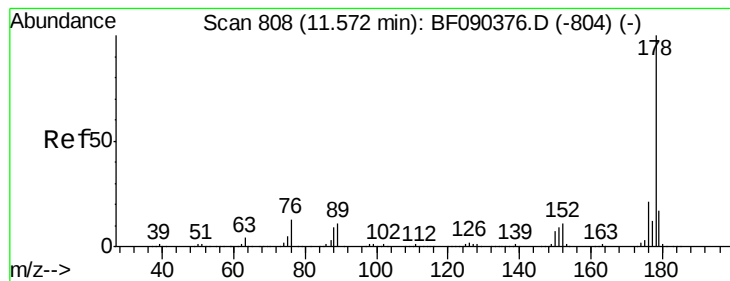
10/6/2016 5:27:31 PM



#69
Pentachlorophenol
Concen: 0.63 ng
RT: 11.34 min Scan# 788
Delta R.T. -0.00 min
Lab File: BF090384.D
Acq: 5 Oct 2016 16:30

Tgt Ion	Ratio	Lower	Upper
266	100		
268	73.4	50.9	76.3
264	68.1	51.5	77.3





#70

Phenanthrene

Concen: 1.06 ng

RT: 11.56 min Scan# 807

Delta R.T. -0.01 min

Lab File: BF090384.D

Acq: 5 Oct 2016 16:30

Instrument :

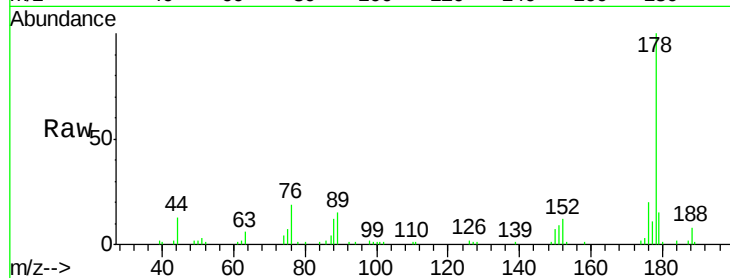
BNA_F

ClientSampleId :

LOD-SOIL2016-01-QT4

Tot Ion	Ratio	Lower	Upper
178	100		
176	20.0	17.3	25.9
179	15.1	13.8	20.6

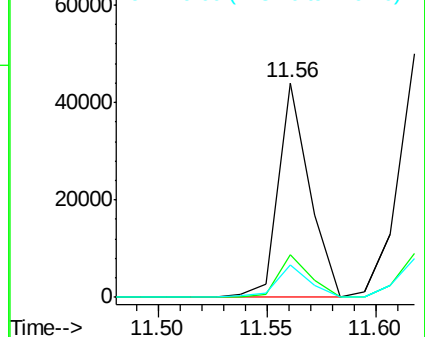
Manual Integrations
APPROVED



Abundance Ion 178.00 (177.70 to 178.70): E

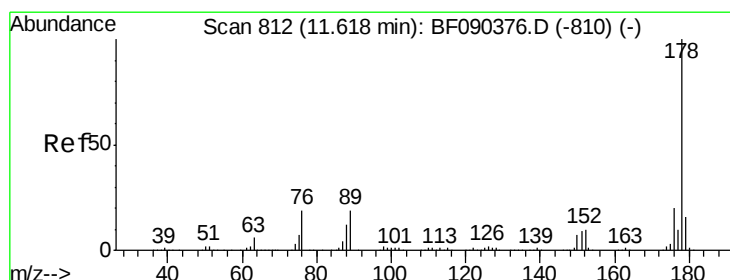
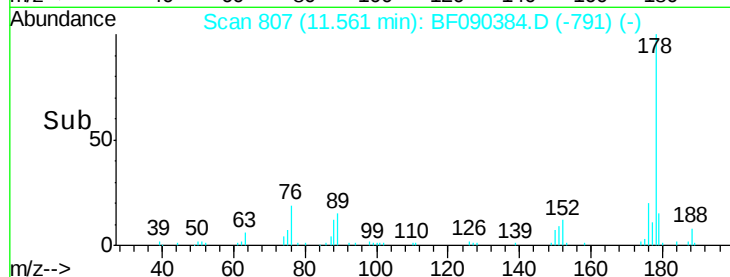
Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



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#71

Anthracene

Concen: 1.06 ng

RT: 11.62 min Scan# 812

Delta R.T. -0.00 min

Lab File: BF090384.D

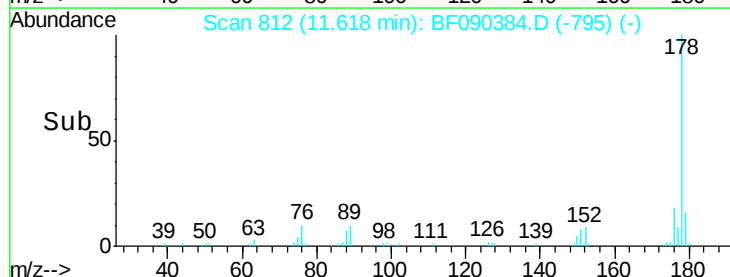
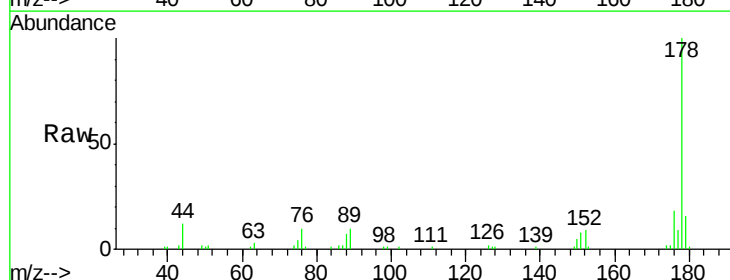
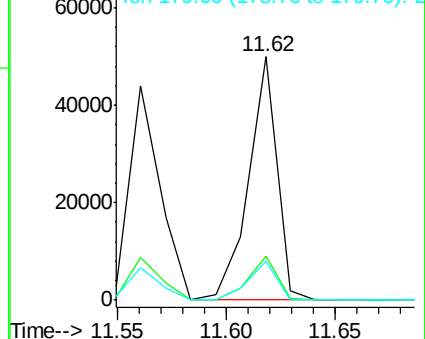
Acq: 5 Oct 2016 16:30

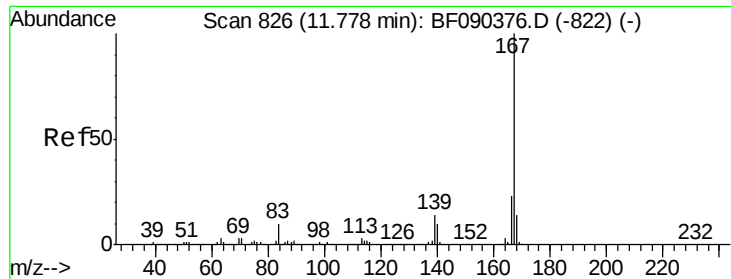
Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.1	16.8	25.2
179	15.7	13.4	20.2

Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 1.13 ng

RT: 11.77 min Scan# 825

Delta R.T. -0.01 min

Lab File: BF090384.D

Acq: 5 Oct 2016 16:30

Instrument :

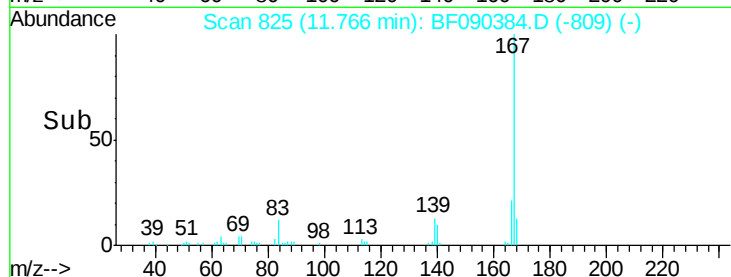
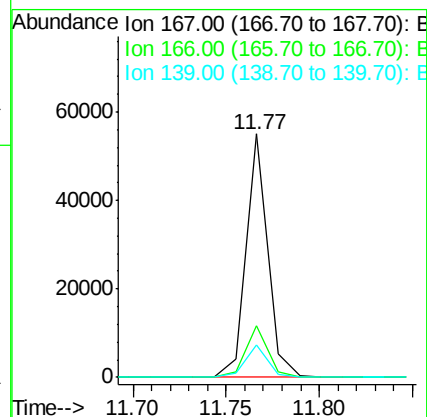
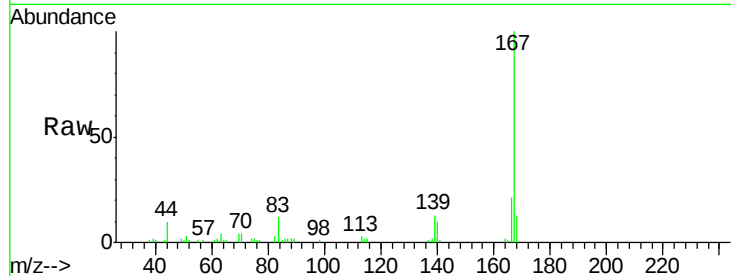
BNA_F

ClientSampleId :

LOD-SOIL2016-01-QT4

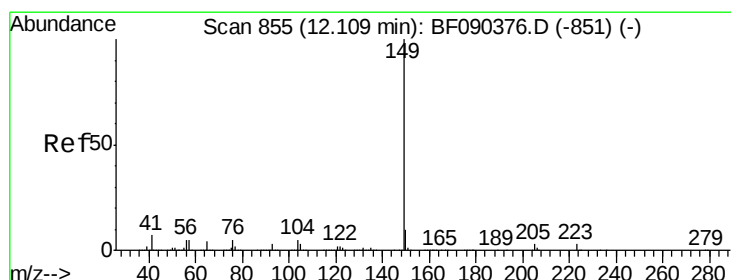
Tot Ion:	167	Resp:	44543
Ion Ratio	Lower	Upper	
167	100		
166	21.4	19.1	28.7
139	13.3	12.1	18.1

Manual Integrations
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#73

Di-n-butylphthalate

Concen: 1.04 ng

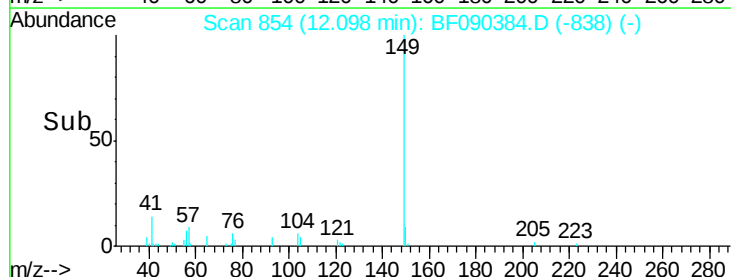
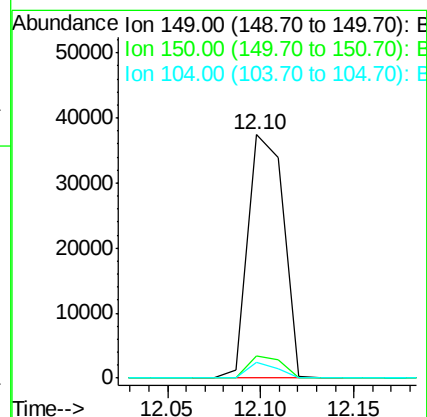
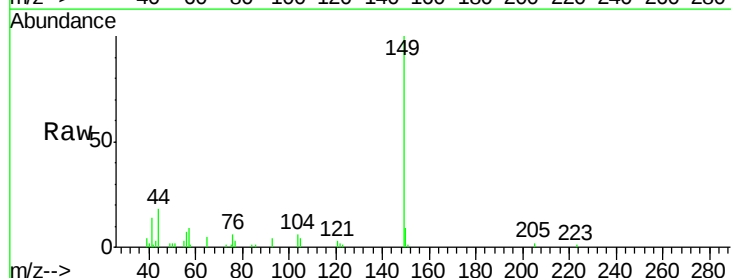
RT: 12.10 min Scan# 854

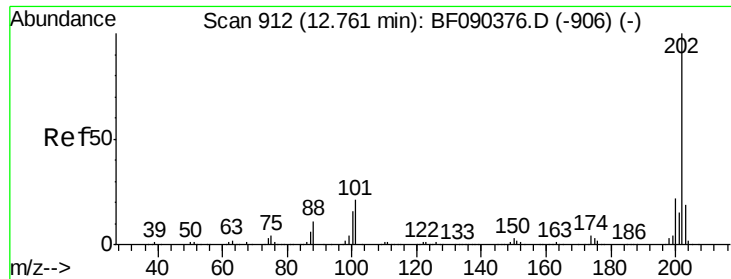
Delta R.T. -0.01 min

Lab File: BF090384.D

Acq: 5 Oct 2016 16:30

Tgt Ion:	149	Resp:	50062
Ion Ratio	Lower	Upper	
149	100		
150	9.3	8.6	12.8
104	6.3	4.7	7.1





#74

Fluoranthene

Concen: 0.98 ng

RT: 12.76 min Scan# 912

Delta R.T. -0.00 min

Lab File: BF090384.D

Acq: 5 Oct 2016 16:30

Instrument :

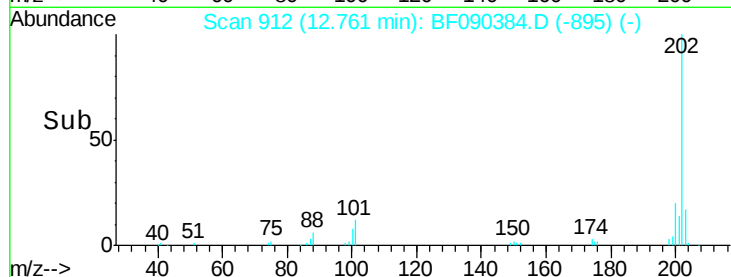
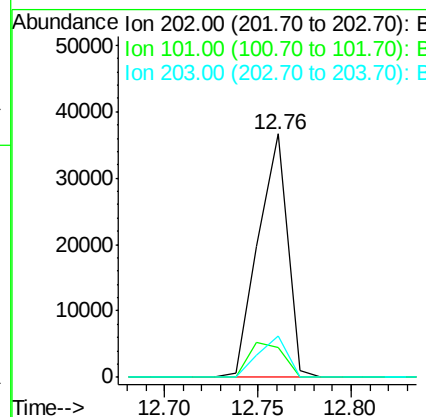
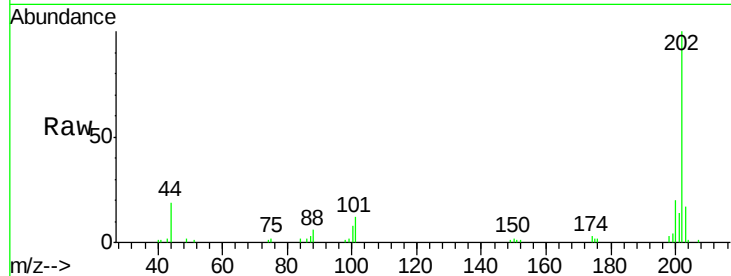
BNA_F

ClientSampleId :

LOD-SOIL2016-01-QT4

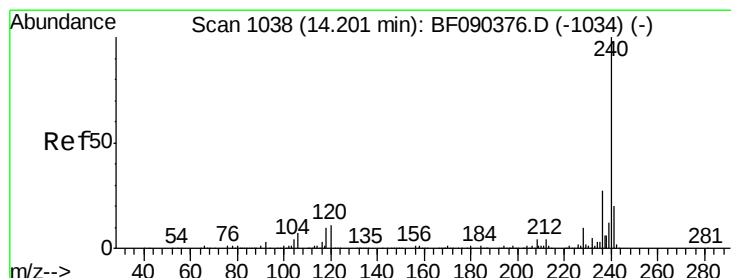
Tot Ion	Ratio	Resp	Lower	Upper
202	100			
101	12.4	0.0	37.2	
203	16.9	0.0	39.3	

Manual Integrations
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#75

Chrysene-d12

Concen: 20.00 ng

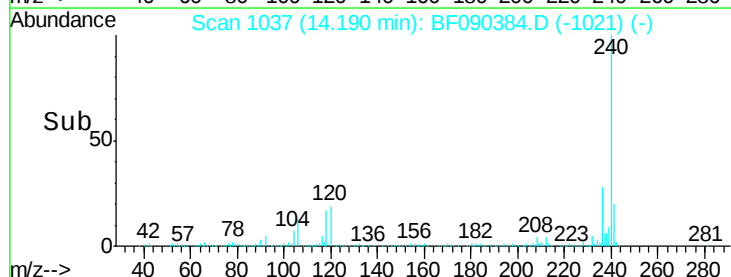
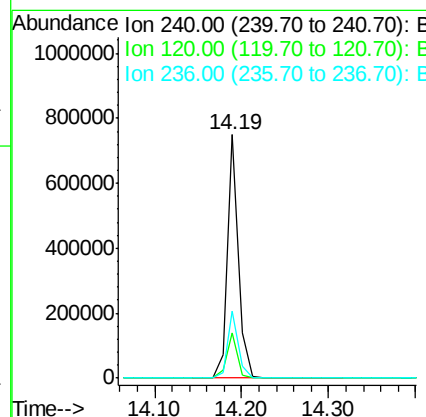
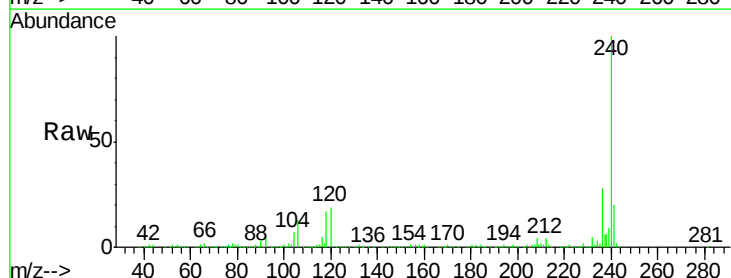
RT: 14.19 min Scan# 1037

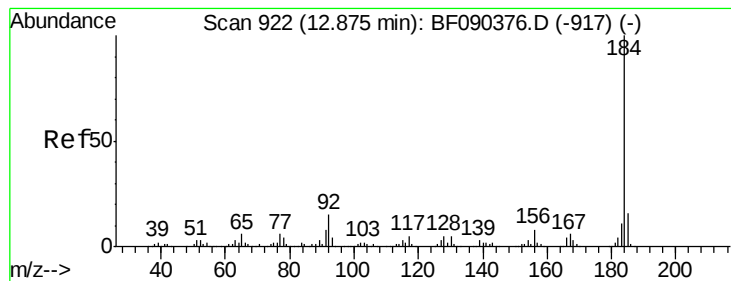
Delta R.T. -0.01 min

Lab File: BF090384.D

Acq: 5 Oct 2016 16:30

Tgt Ion	Ratio	Resp	Lower	Upper
240	100			
120	18.8	8.6	13.0#	
236	27.5	21.6	32.4	



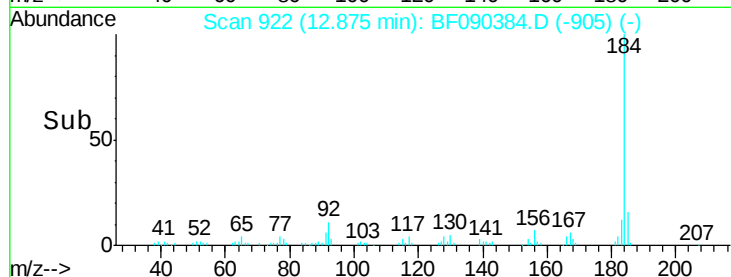
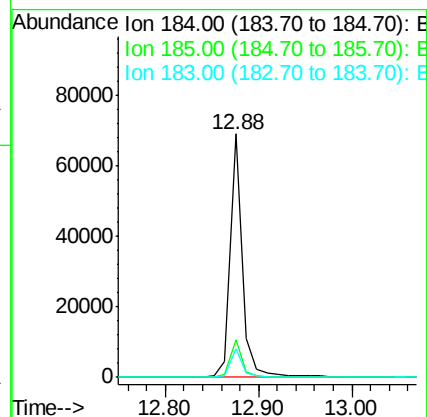
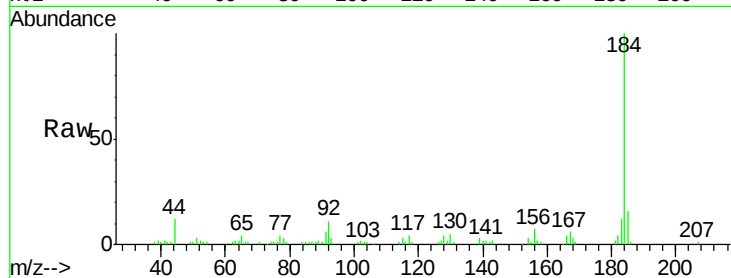


#76
Benzidine
Concen: 3.54 ng
RT: 12.88 min Scan# 922
Delta R.T. -0.00 min
Lab File: BF090384.D
Acq: 5 Oct 2016 16:30

Instrument :
BNA_F
ClientSampleId :
LOD-SOIL2016-01-QT4

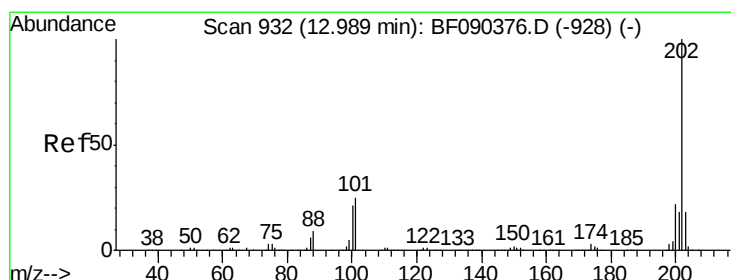
Tot Ion	Ratio	Lower	Upper
184	100		
185	15.6	11.8	17.8
183	11.8	9.6	14.4

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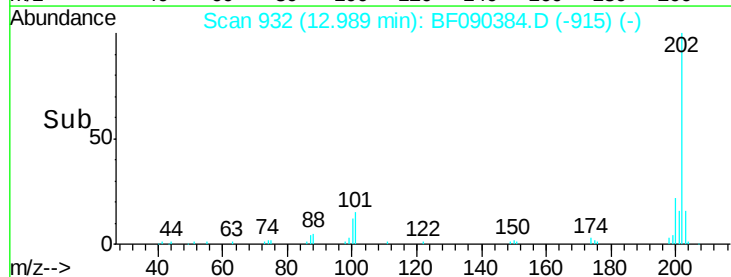
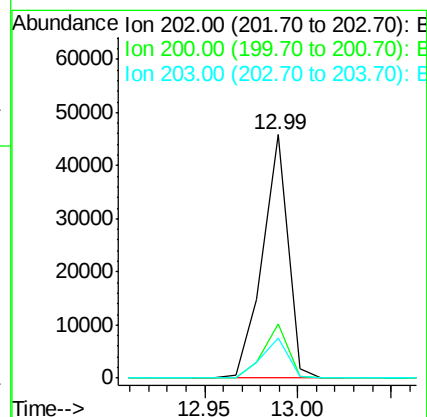
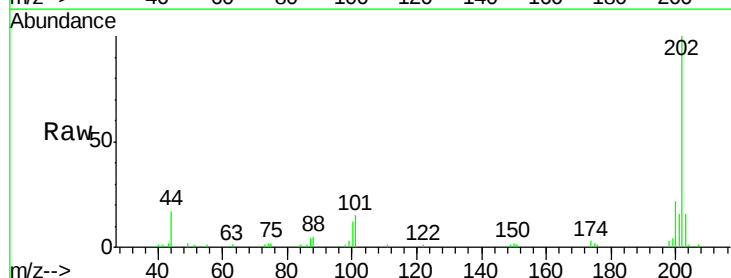
SOHIL

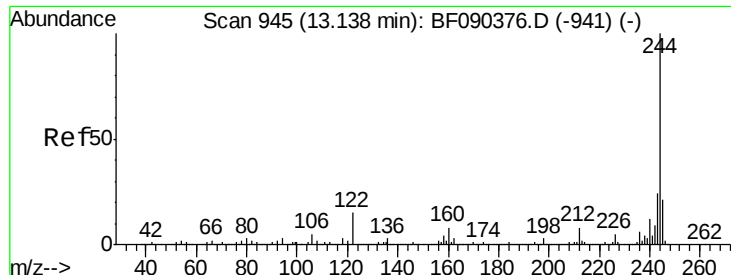
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#77
Pyrene
Concen: 0.97 ng
RT: 12.99 min Scan# 932
Delta R.T. -0.00 min
Lab File: BF090384.D
Acq: 5 Oct 2016 16:30

Tgt Ion	Ratio	Lower	Upper
202	100		
200	22.0	18.5	27.7
203	16.4	15.0	22.6



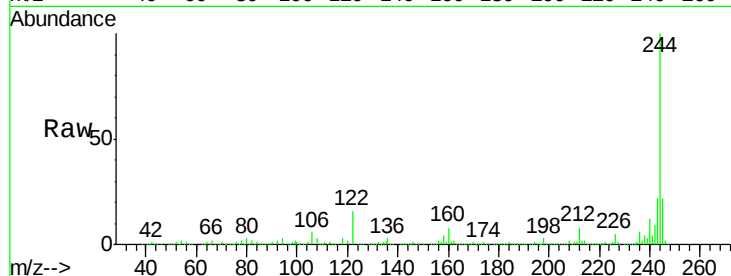


#78
 Terphenyl-d14
 Concen: 87.23 ng
 RT: 13.14 min Scan# 945
 Delta R.T. -0.00 min
 Lab File: BF090384.D
 Acq: 5 Oct 2016 16:30

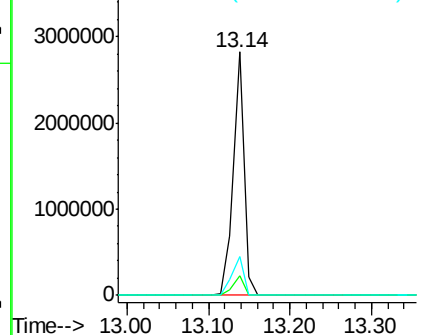
Instrument :
 BNA_F
 ClientSampleId :
 LOD-SOIL2016-01-QT4

Tot Ion	Ratio	Lower	Upper
244	100		
212	7.9	6.8	10.2
122	15.9	13.3	19.9

Manual Integrations
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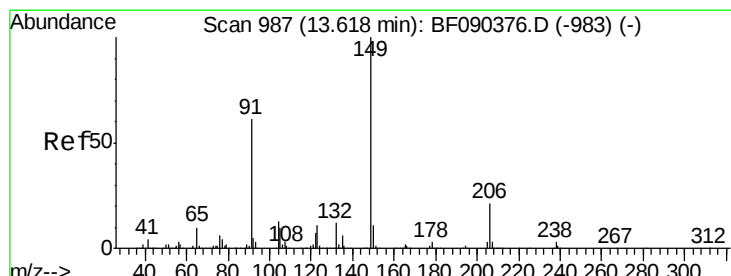
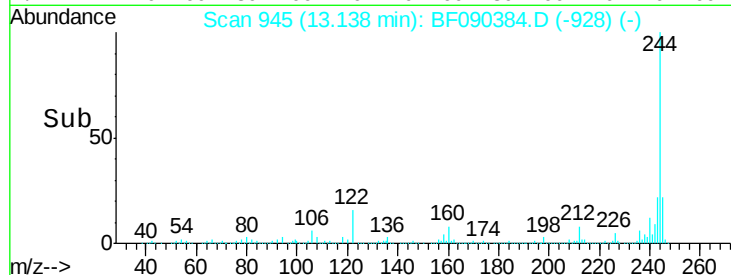


Abundance Ion 244.00 (243.70 to 244.70): E
 Ion 212.00 (211.70 to 212.70): E
 Ion 122.00 (121.70 to 122.70): E



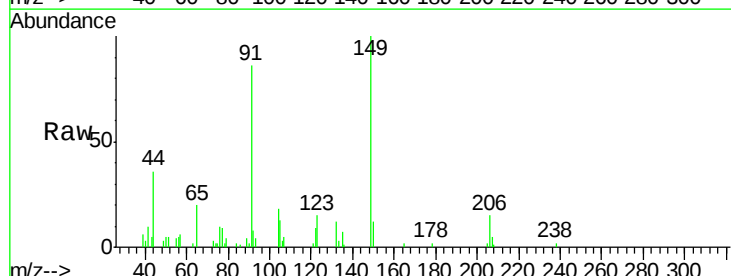
SOHIL

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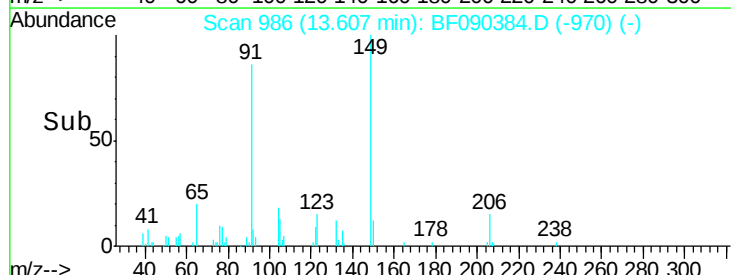
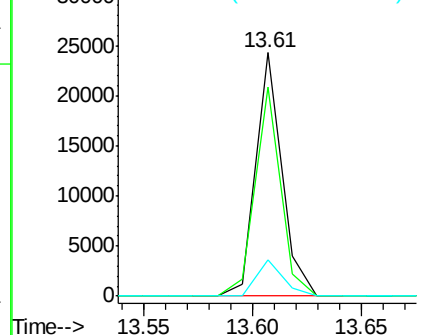


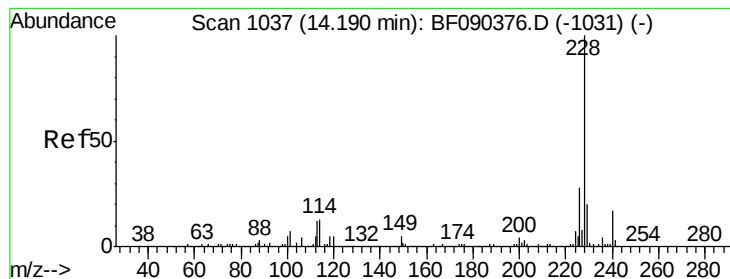
#79
 Butylbenzylphthalate
 Concen: 0.89 ng
 RT: 13.61 min Scan# 986
 Delta R.T. -0.01 min
 Lab File: BF090384.D
 Acq: 5 Oct 2016 16:30

Tgt Ion	Ratio	Lower	Upper
149	100		
91	85.8	51.8	77.8#
206	14.8	18.0	27.0#



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: 1.05 ng

RT: 14.18 min Scan# 1036

Delta R.T. -0.01 min

Lab File: BF090384.D

Acq: 5 Oct 2016 16:30

Instrument :

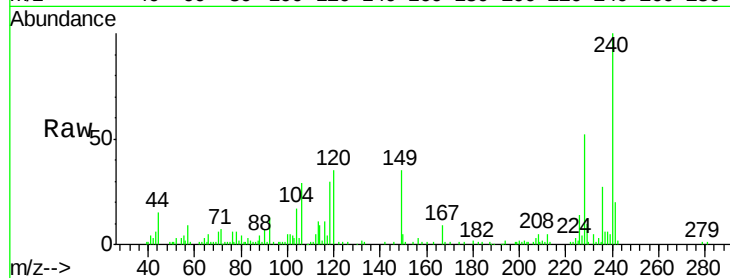
BNA_F

ClientSampleId :

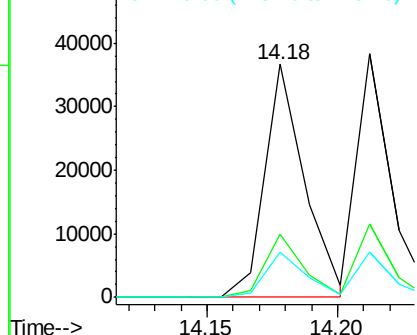
LOD-SOIL2016-01-QT4

Tot Ion:	228	Resp:	39189
Ion Ratio	Lower	Upper	
228	100		
226	27.1	23.6	35.4
229	19.1	16.6	25.0

Manual Integrations
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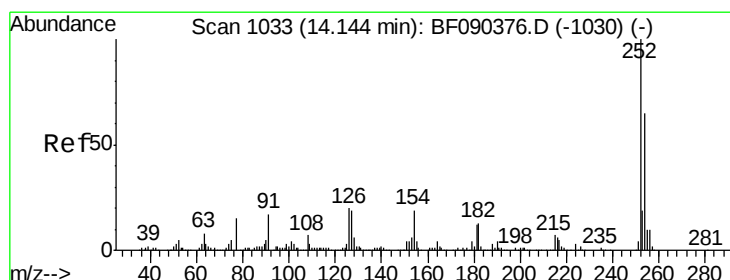
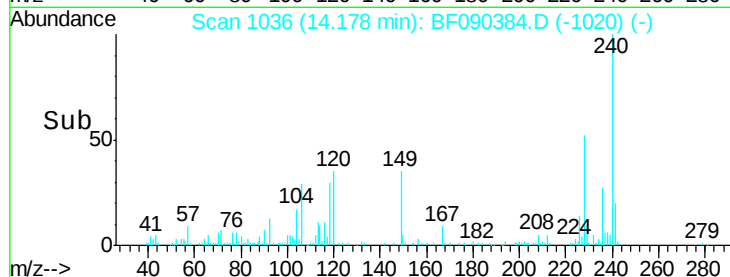


Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E



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#81

3,3'-Dichlorobenzidine

Concen: 0.83 ng

RT: 14.14 min Scan# 1033

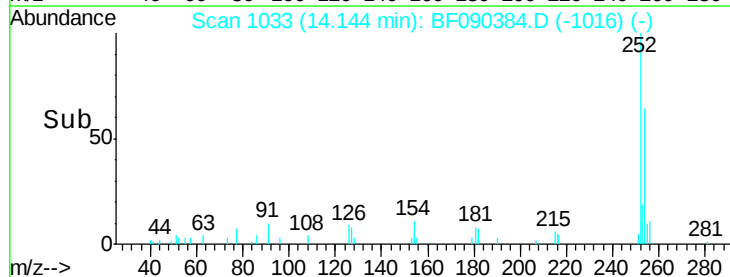
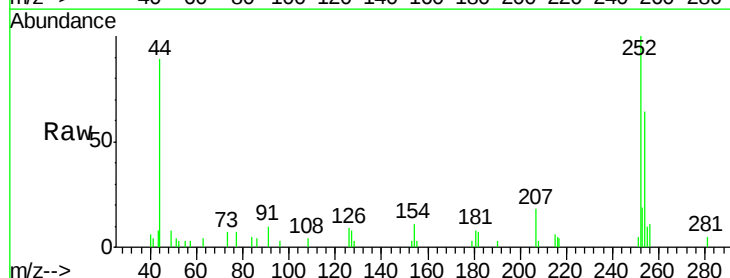
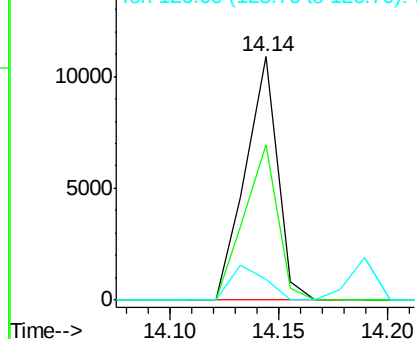
Delta R.T. -0.00 min

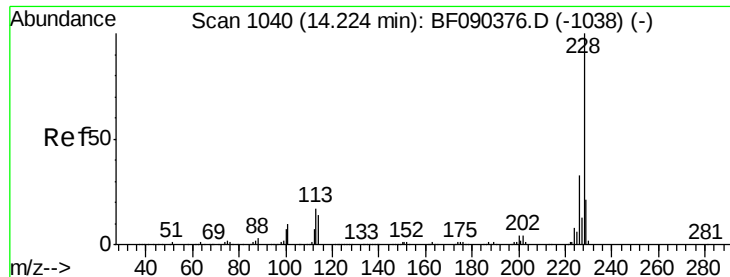
Lab File: BF090384.D

Acq: 5 Oct 2016 16:30

Tgt Ion:	252	Resp:	11189
Ion Ratio	Lower	Upper	
252	100		
254	63.6	52.1	78.1
126	8.8	4.2	6.4#

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



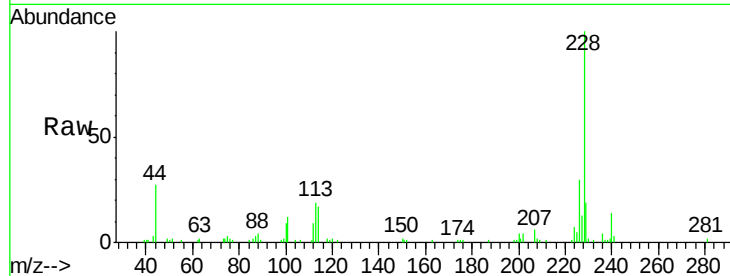


#82
Chrysene
Concen: 0.99 ng
RT: 14.21 min Scan# 1039
Delta R.T. -0.01 min
Lab File: BF090384.D
Acq: 5 Oct 2016 16:30

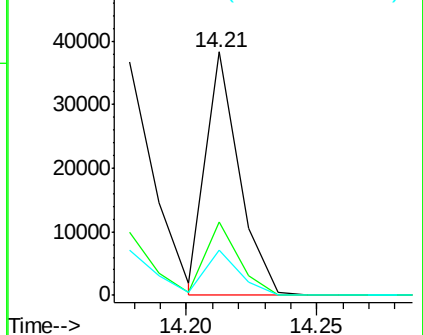
Instrument :
BNA_F
ClientSampleId :
LOD-SOIL2016-01-QT4

Tot Ion:228	Resp:	33948
Ion Ratio	Lower	Upper
228 100		
226 30.1	25.8	38.6
229 18.8	16.9	25.3

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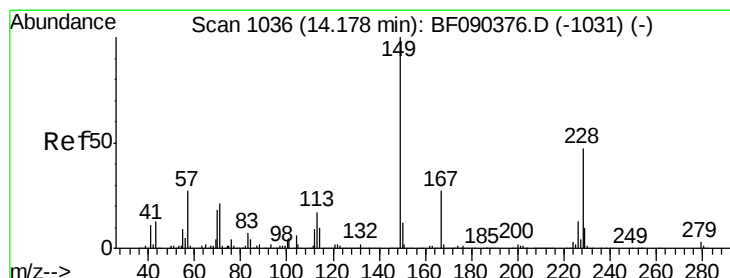
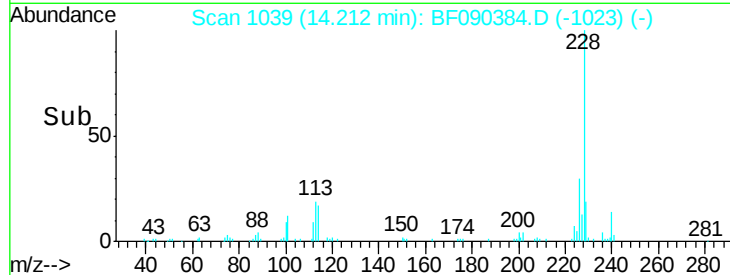


Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E



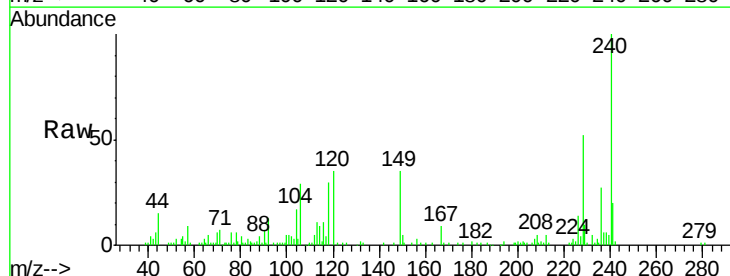
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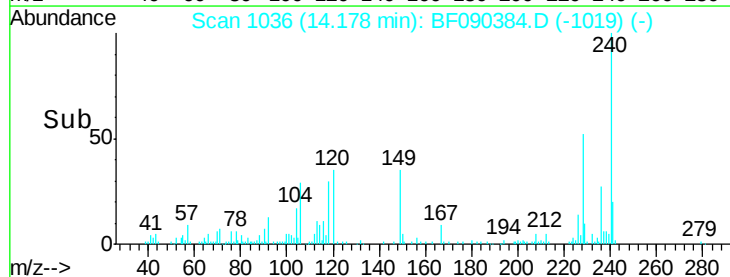
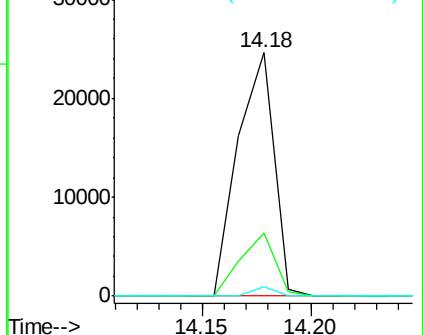


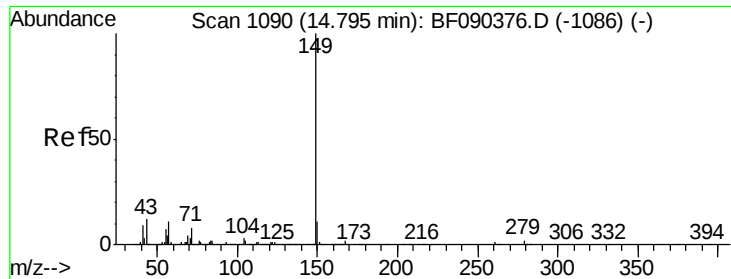
#83
Bis(2-ethylhexyl)phthalate
Concen: 0.88 ng
RT: 14.18 min Scan# 1036
Delta R.T. -0.00 min
Lab File: BF090384.D
Acq: 5 Oct 2016 16:30

Tgt Ion:149	Resp:	28520
Ion Ratio	Lower	Upper
149 100		
167 25.9	21.5	32.3
279 4.0	2.6	3.8#



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



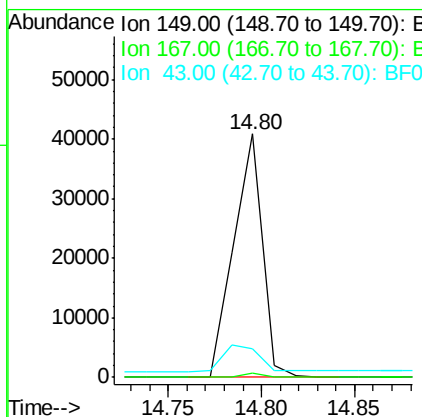
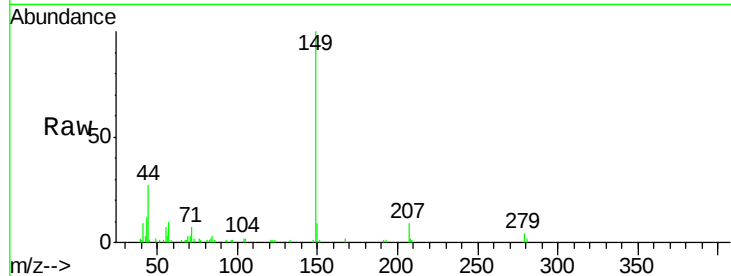


#84
Di-n-octyl phthalate
Concen: 0.92 ng
RT: 14.80 min Scan# 1090
Delta R.T. -0.00 min
Lab File: BF090384.D
Acq: 5 Oct 2016 16:30

Instrument :
BNA_F
ClientSampleId :
LOD-SOIL2016-01-QT4

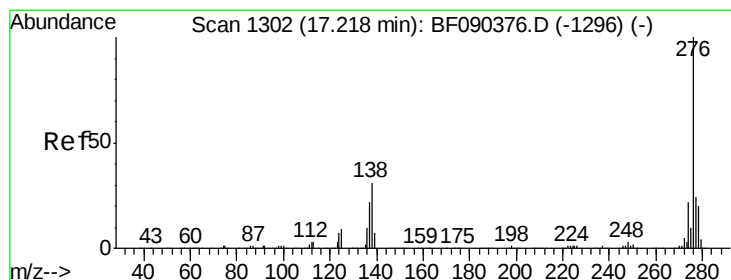
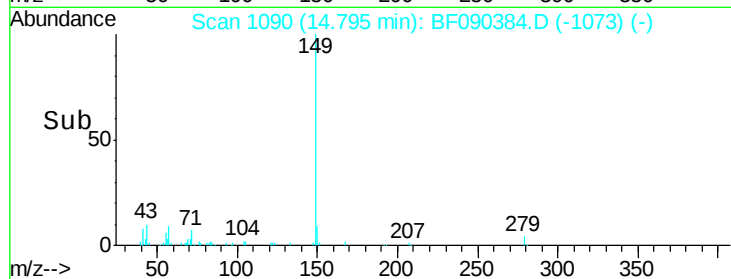
Tot Ion	Ratio	Lower	Upper
149	100		
167	1.1	1.3	1.9#
43	15.0	11.8	17.8

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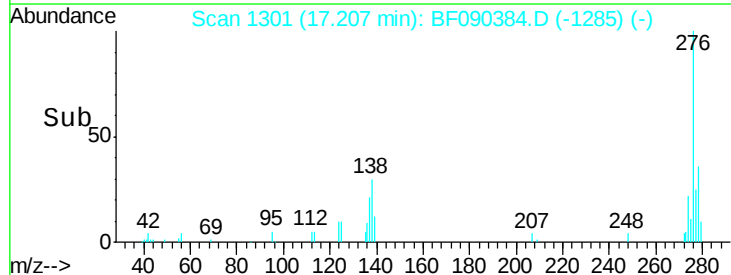
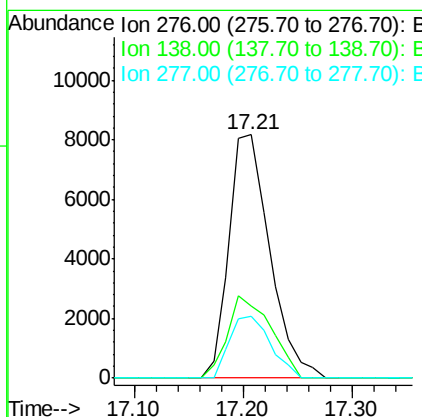
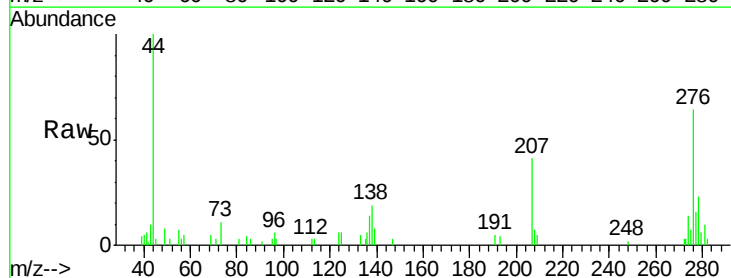
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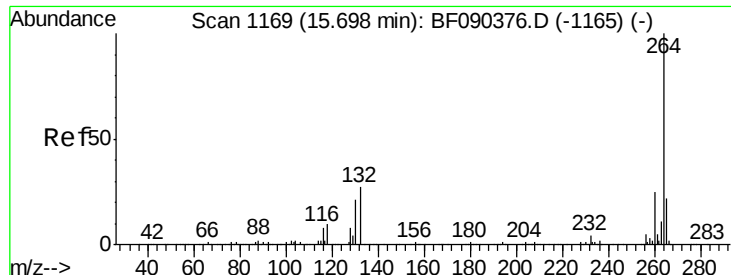
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#85
Indeno(1,2,3-cd)pyrene
Concen: 0.87 ng
RT: 17.21 min Scan# 1301
Delta R.T. -0.01 min
Lab File: BF090384.D
Acq: 5 Oct 2016 16:30

Tgt Ion	Ratio	Lower	Upper
276	100		
138	35.9	23.8	35.8#
277	25.3	20.4	30.6



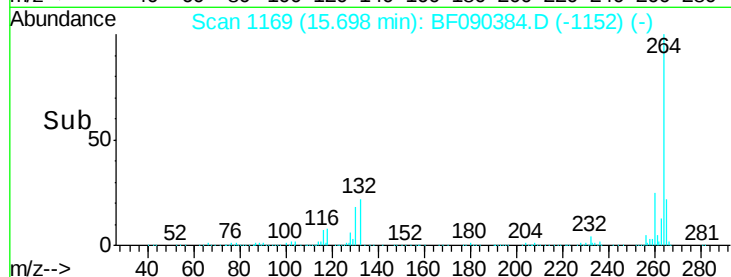
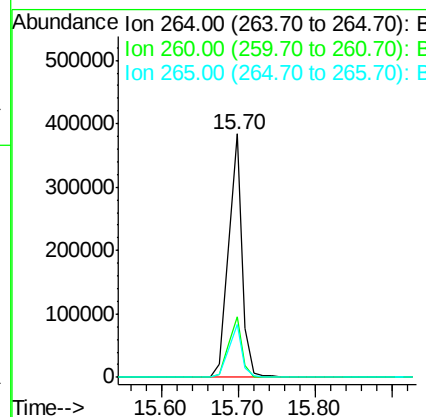
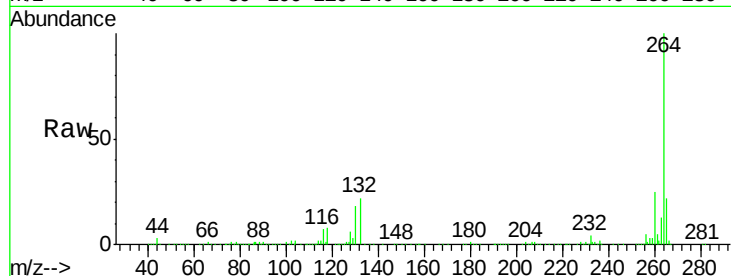


#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.70 min Scan# 1169
Delta R.T. -0.00 min
Lab File: BF090384.D
Acq: 5 Oct 2016 16:30

Instrument :
BNA_F
ClientSampleId :
LOD-SOIL2016-01-QT4

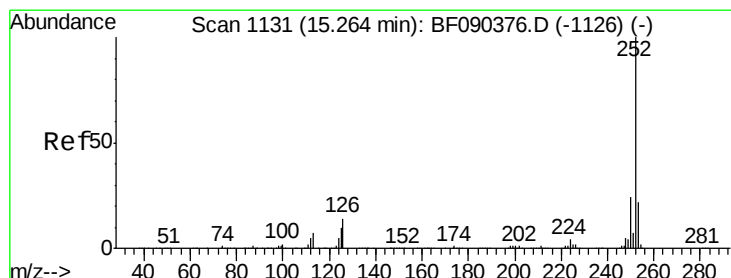
Tot Ion	Ratio	Lower	Upper
264	100		
260	24.9	19.3	28.9
265	21.7	17.4	26.0

Manual Integrations
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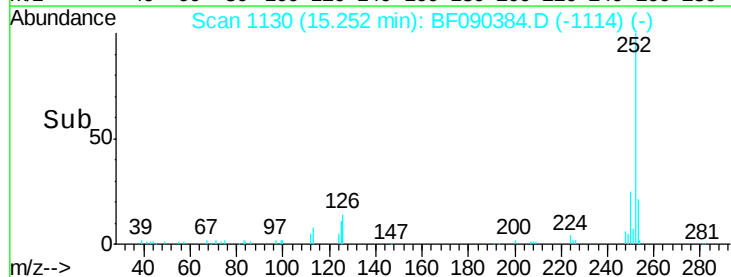
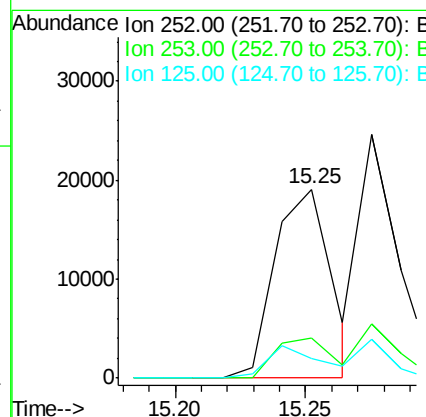
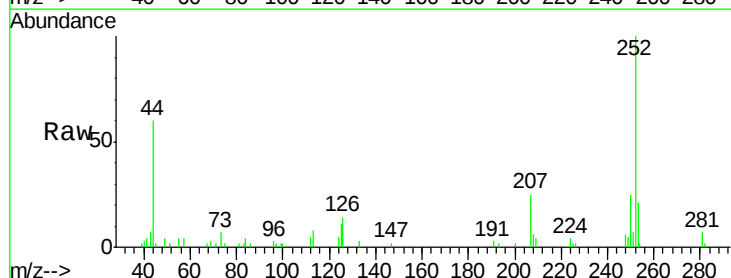
SOHIL

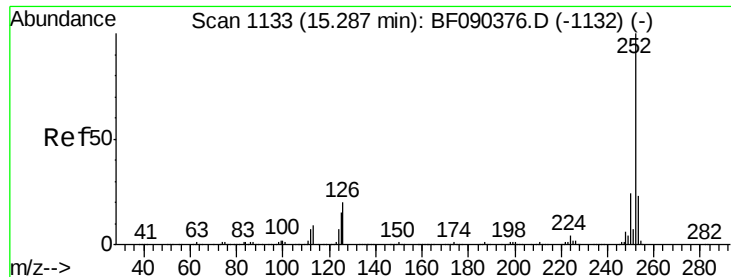
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#87
Benzo(b)fluoranthene
Concen: 0.93 ng
RT: 15.25 min Scan# 1130
Delta R.T. -0.01 min
Lab File: BF090384.D
Acq: 5 Oct 2016 16:30

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.1	18.2	27.2
125	10.5	7.0	10.4



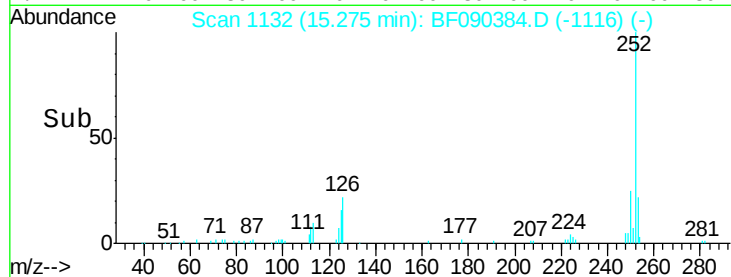
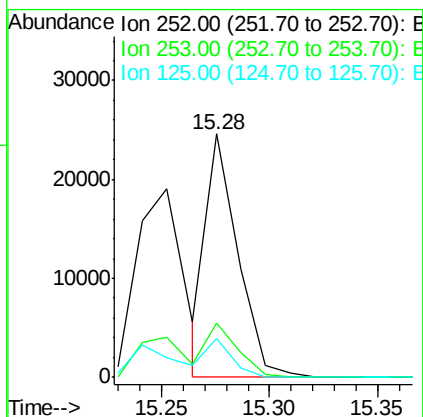
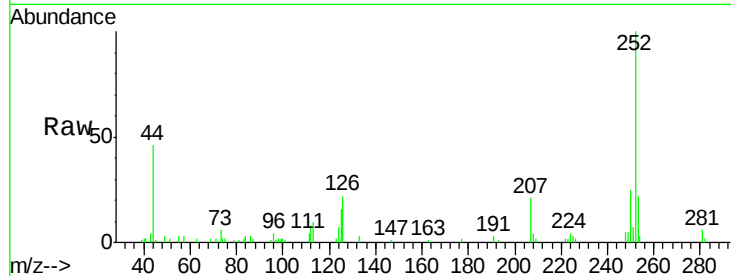


#88
Benzo(k)fluoranthene
Concen: 0.88 ng m
RT: 15.28 min Scan# 1132
Delta R.T. -0.01 min
Lab File: BF090384.D
Acq: 5 Oct 2016 16:30

Instrument :
BNA_F
ClientSampleId :
LOD-SOIL2016-01-QT4

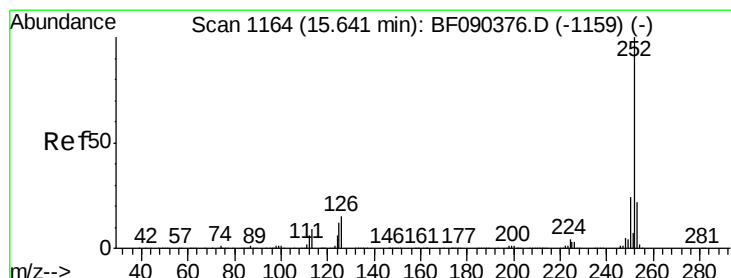
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.1	18.6	27.8
125	16.2	11.7	17.5

Manual Integrations
APPROVED



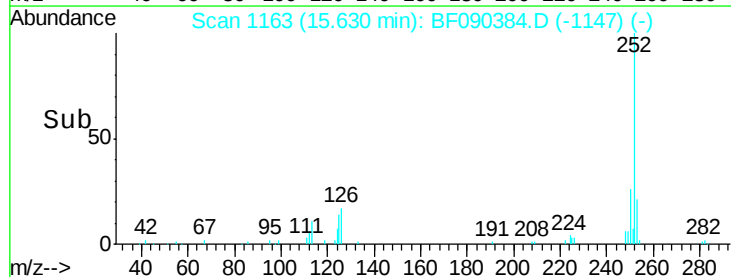
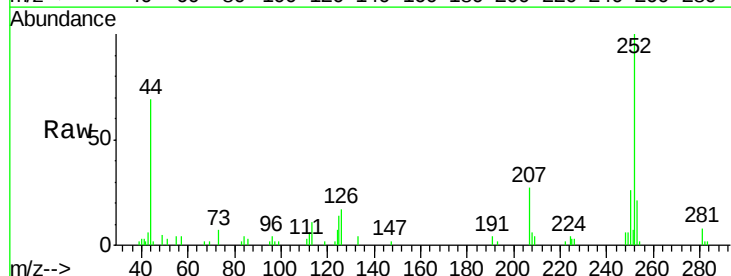
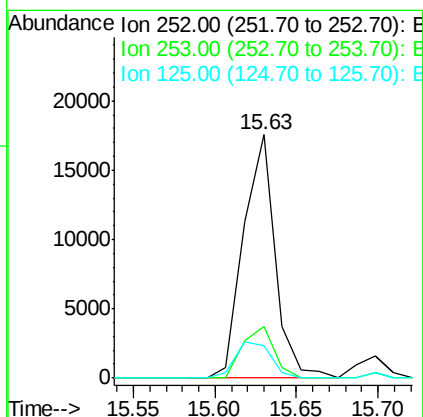
SOHIL

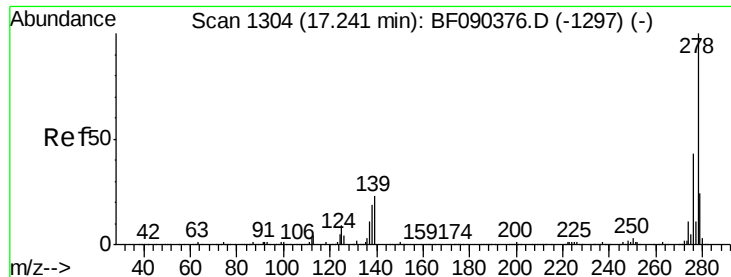
10/6/2016 5:27:31 PM



#89
Benzo(a)pyrene
Concen: 0.89 ng
RT: 15.63 min Scan# 1163
Delta R.T. -0.01 min
Lab File: BF090384.D
Acq: 5 Oct 2016 16:30

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.4	18.2	27.4
125	13.5	9.8	14.8



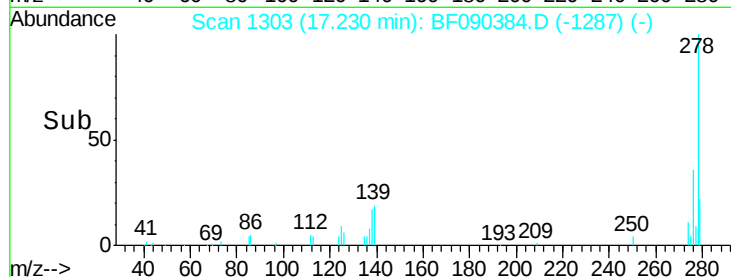
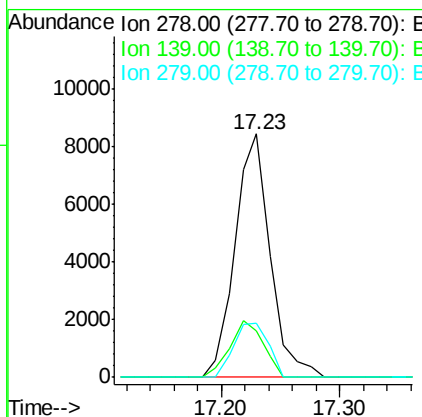
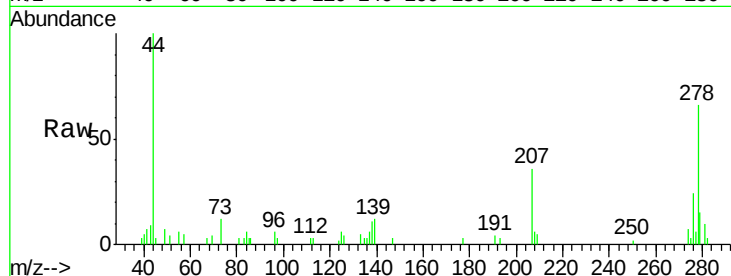


#90
Dibenzo(a,h)anthracene
Concen: 0.77 ng
RT: 17.23 min Scan# 1303
Delta R.T. -0.01 min
Lab File: BF090384.D
Acq: 5 Oct 2016 16:30

Instrument :
BNA_F
ClientSampleId :
LOD-SOIL2016-01-QT4

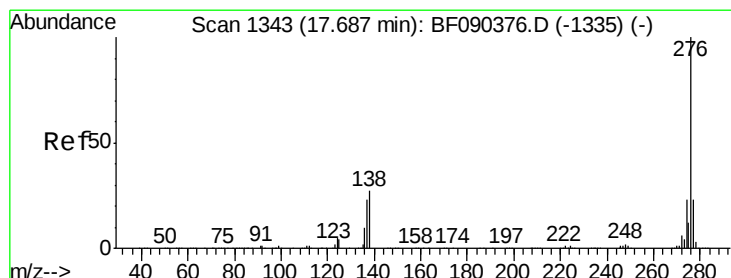
Tot Ion	Ratio	Lower	Upper
278	100		
139	18.9	12.8	19.2
279	22.5	19.6	29.4

Manual Integrations
APPROVED



SOHIL

10/6/2016 5:27:31 PM



#91
Benzo(g,h,i)perylene
Concen: 0.77 ng
RT: 17.65 min Scan# 1340
Delta R.T. -0.03 min
Lab File: BF090384.D
Acq: 5 Oct 2016 16:30

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.5	19.4	29.0
138	30.4	20.8	31.2

