

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG032117\
 Data File : BG026362.D
 Acq On : 21 Mar 2017 17:25
 Operator : SJ/MA
 Sample : I2296-01
 Misc : LOD 2 PPB
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 LOD-SOIL-01-QT2-2017

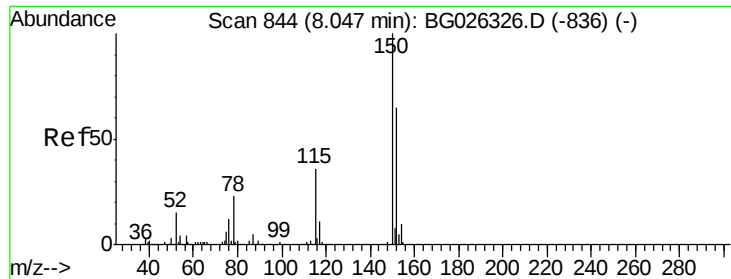
Manual Integrations
 APPROVED

mohammad
 3/23/2017 3:31:51 PM

Quant Time: Mar 23 13:20:11 2017
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG032017.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 20 17:43:27 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.04	152	124464	20.00	ng	0.00
21) Naphthalene-d8	10.85	136	532944	20.00	ng	0.00
38) Acenaphthene-d10	14.65	164	310410	20.00	ng	0.00
63) Phenanthrene-d10	17.39	188	741919	20.00	ng	0.00
75) Chrysene-d12	21.63	240	903890	20.00	ng	0.00
86) Perylene-d12	24.81	264	873940	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.62	112	938806	133.88	ng	0.00
7) Phenol-d6	7.20	99	1205635	128.06	ng	0.00
23) Nitrobenzene-d5	9.20	82	733330	82.74	ng	0.00
41) 2,4,6-Tribromophenol	16.13	330	527028	148.26	ng	0.00
44) 2-Fluorobiphenyl	13.28	172	2015632	91.06	ng	0.00
78) Terphenyl-d14	19.98	244	2785032	74.83	ng	0.00
Target Compounds						Qvalue
17) 2-Methylphenol	8.49	107	13673	1.92	ng	# 73
19) n-Nitroso-di-n-propylamine	8.84	70	11145	1.84	ng	# 72
20) 3+4-Methylphenols	8.81	107	18809	1.91	ng	# 73
22) Acetophenone	8.87	105	24797	2.02	ng	# 73
25) Isophorone	9.77	82	30711	1.84	ng	# 93
26) 2-Nitrophenol	9.96	139	8510	1.87	ng	# 57
27) 2,4-Dimethylphenol	10.02	122	13891	1.86	ng	# 87
28) bis(2-Chloroethoxy)methane	10.25	93	20708	1.91	ng	# 88
29) 2,4-Dichlorophenol	10.51	162	13976	1.85	ng	# 92
30) 1,2,4-Trichlorobenzene	10.71	180	17795	2.10	ng	# 97
36) 4-Chloro-3-methylphenol	12.12	107	14083	1.74	ng	# 82
42) 2,4,6-Trichlorophenol	13.10	196	10655	1.74	ng	# 95
43) 2,4,5-Trichlorophenol	13.18	196	13346	1.97	ng	# 92
56) 2,4-Dinitrotoluene	15.01	165	11997	1.56	ng	# 76
60) 4-Chlorophenyl-phenylether	15.68	204	25653	2.14	ng	# 86
61) 4-Nitroaniline	15.71	138	9777	1.54	ng	# 49
76) Benzidine	19.60	184	44845	1.44	ng	# 99
81) 3,3'-Dichlorobenzidine	21.53	252	37274	1.79	ng	# 99

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



#1

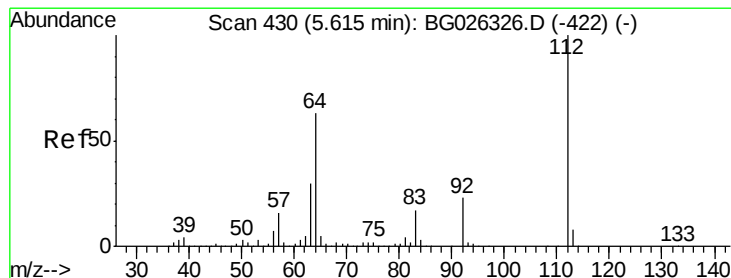
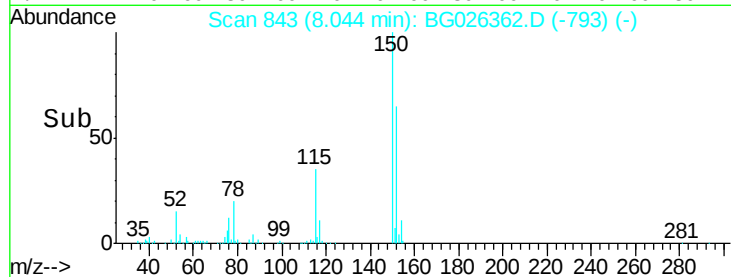
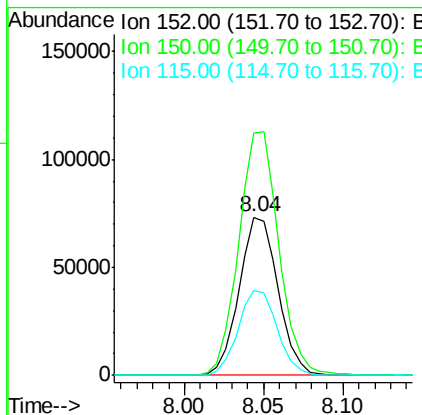
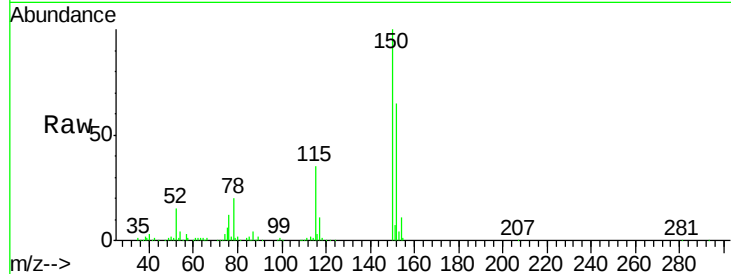
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 8.04 min Scan# 843
Delta R.T. -0.00 min
Lab File: BG026362.D
Acq: 21 Mar 2017 17:25

Instrument :
BNA_G
ClientSampleId :
LOD-SOIL-01-QT2-2017

Tgt	Ion	Ratio	Lower	Upper
152	100			
150	153.4	114.0	171.0	
115	54.0	48.1	72.1	

Manual Integrations
APPROVED

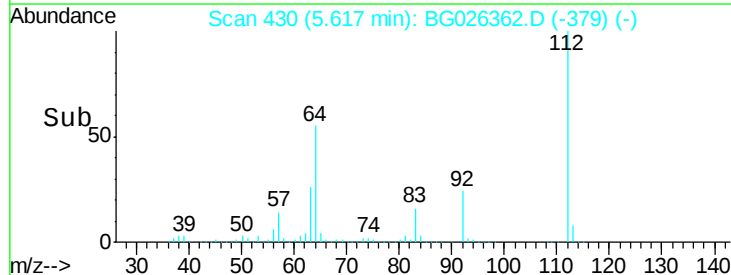
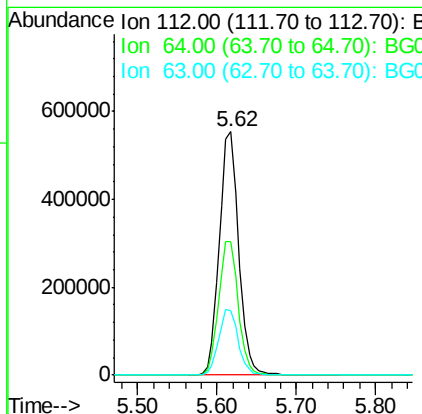
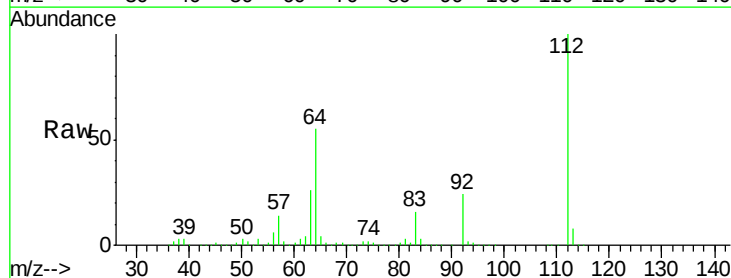
mohammad
3/23/2017 3:31:51 PM

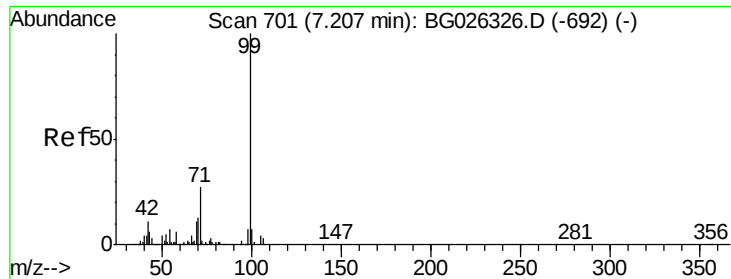


#5

2-Fluorophenol
Concen: 133.88 ng
RT: 5.62 min Scan# 430
Delta R.T. 0.00 min
Lab File: BG026362.D
Acq: 21 Mar 2017 17:25

Tgt	Ion	Ratio	Lower	Upper
112	100			
64	54.9	61.8	92.6#	
63	26.4	37.2	55.8#	





#7

Phenol-d6

Concen: 128.06 ng

RT: 7.20 min Scan# 700

Delta R.T. -0.00 min

Lab File: BG026362.D

Acq: 21 Mar 2017 17:25

Instrument :

BNA_G

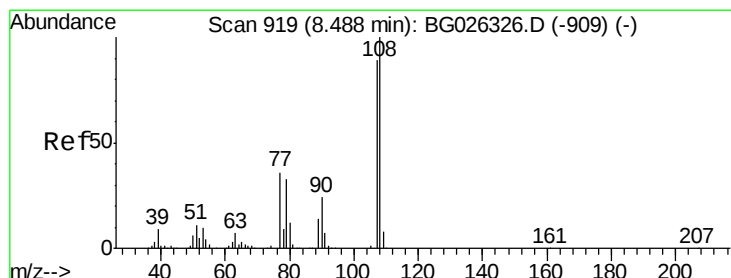
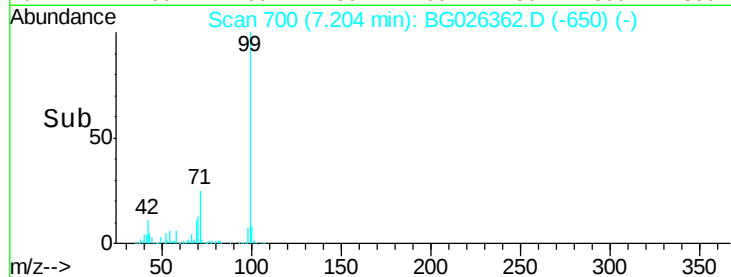
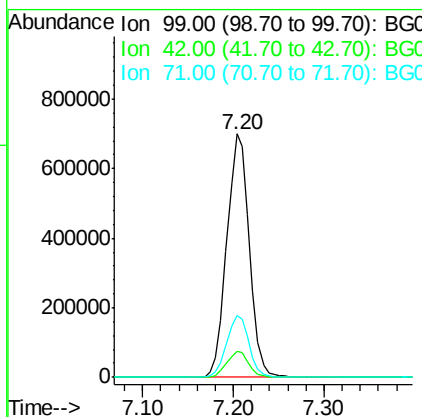
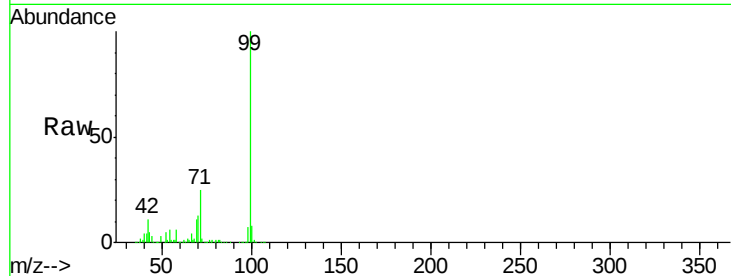
ClientSampleId :

LOD-SOIL-01-QT2-2017

Tgt Ion:	99	Resp:	1205635
Ion	Ratio	Lower	Upper
99	100		
42	10.9	20.5	30.7#
71	25.4	37.6	56.4#

Manual Integrations
APPROVED

mohammad
3/23/2017 3:31:51 PM



#17

2-Methylphenol

Concen: 1.92 ng

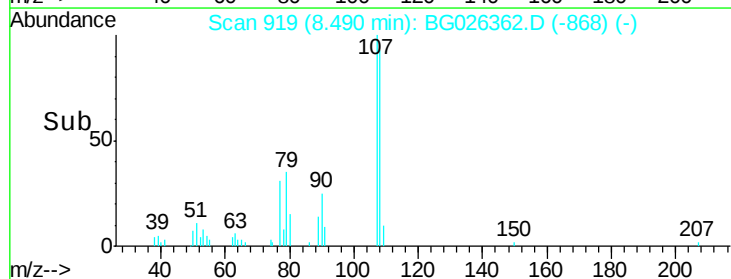
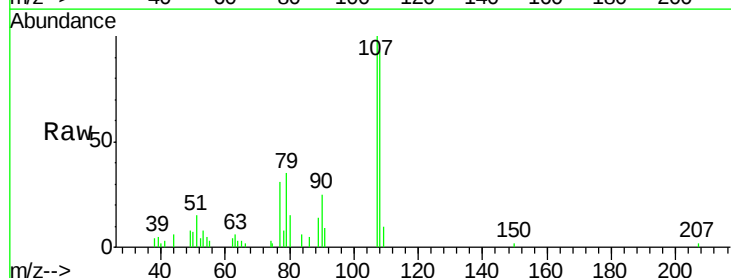
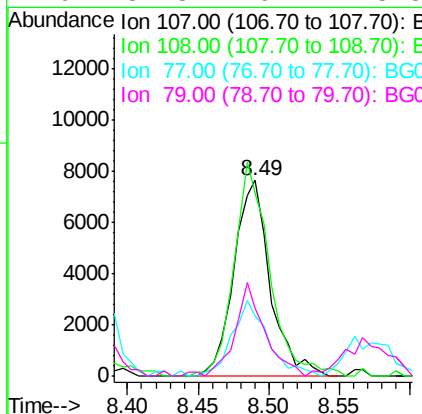
RT: 8.49 min Scan# 919

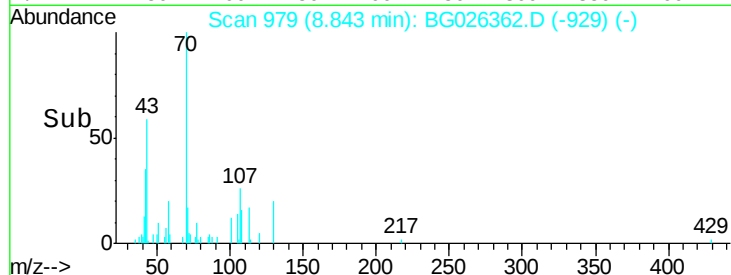
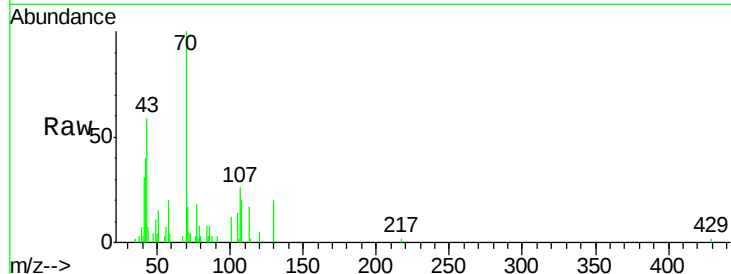
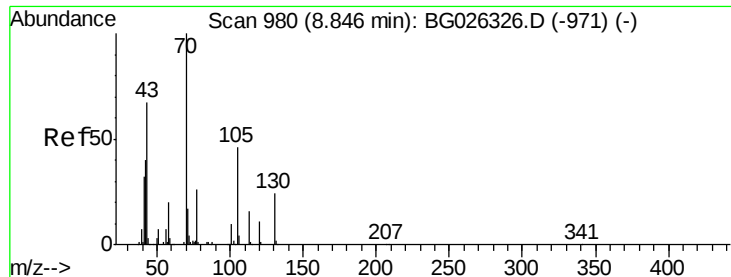
Delta R.T. 0.00 min

Lab File: BG026362.D

Acq: 21 Mar 2017 17:25

Tgt Ion:	107	Resp:	13673
Ion	Ratio	Lower	Upper
107	100		
108	93.4	85.6	128.4
77	31.0	51.4	77.2#
79	34.8	49.2	73.8#





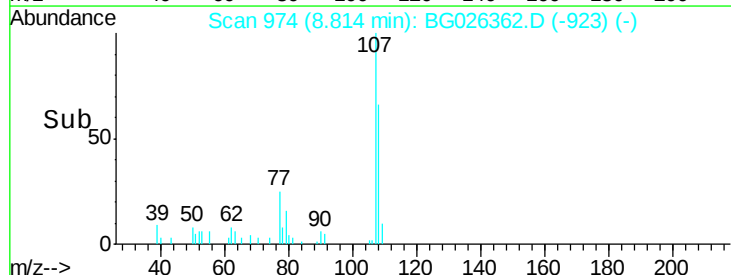
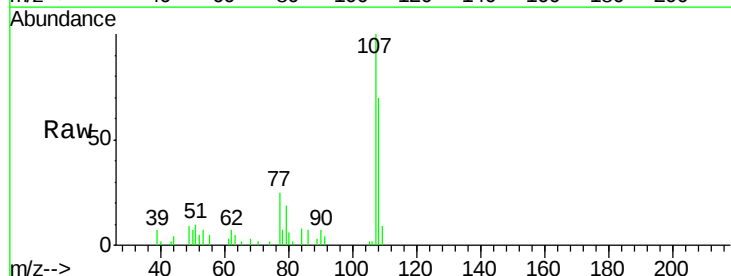
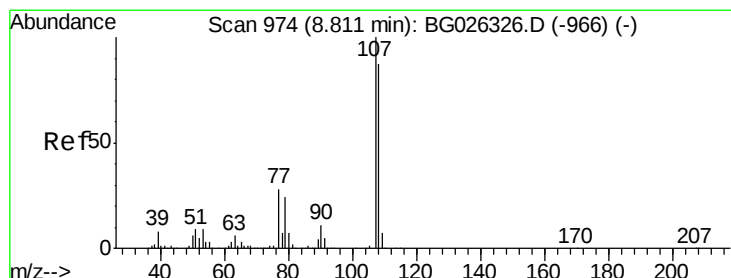
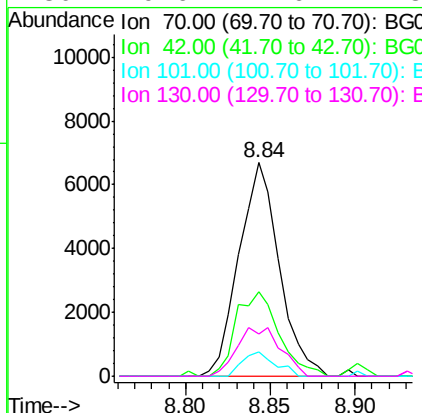
#19
n-Nitroso-di-n-propylamine
Concen: 1.84 ng
RT: 8.84 min Scan# 979
Delta R.T. -0.00 min
Lab File: BG026362.D
Acq: 21 Mar 2017 17:25

Instrument :
BNA_G
ClientSampleId :
LOD-SOIL-01-QT2-2017

Tgt Ion	Ratio	Lower	Upper
70	100		
42	39.6	56.1	84.1#
101	11.7	7.5	11.3#
130	19.6	14.6	21.8

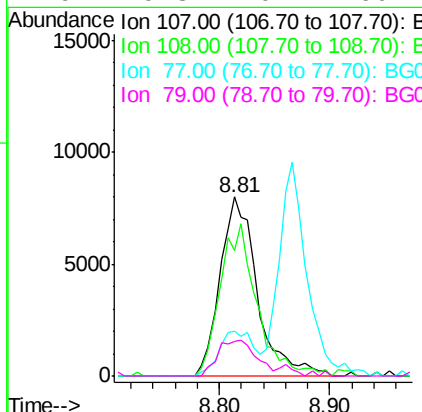
Manual Integrations
APPROVED

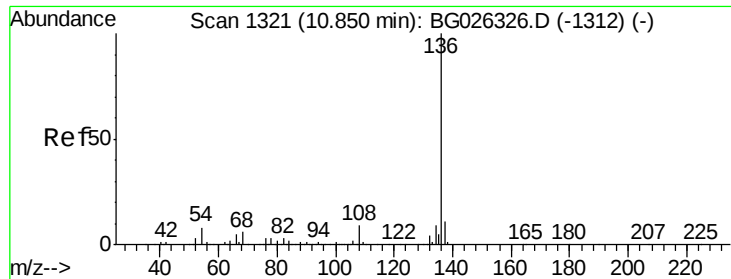
mohammad
3/23/2017 3:31:51 PM



#20
3+4-Methylphenols
Concen: 1.91 ng
RT: 8.81 min Scan# 974
Delta R.T. 0.00 min
Lab File: BG026362.D
Acq: 21 Mar 2017 17:25

Tgt Ion	Ratio	Lower	Upper
107	100		
108	70.2	70.8	110.8#
77	24.9	25.8	65.8#
79	19.3	20.1	60.1#





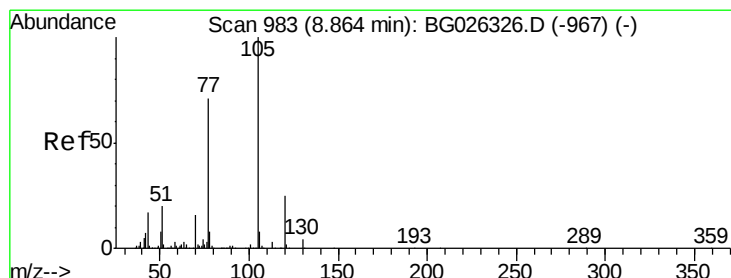
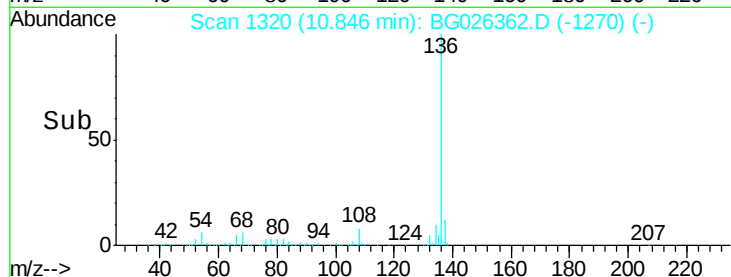
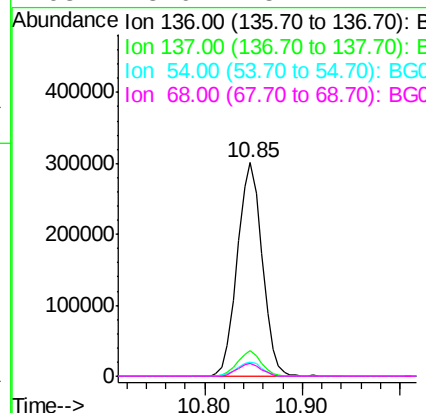
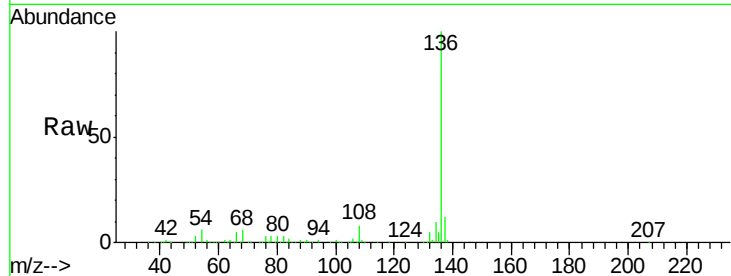
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 10.85 min Scan# 1320
Delta R.T. -0.00 min
Lab File: BG026362.D
Acq: 21 Mar 2017 17:25

Instrument :
BNA_G
ClientSampleId :
LOD-SOIL-01-QT2-2017

Tgt Ion	Ratio	Resp	Lower	Upper
136	100	532944		
137	12.0	8.9	13.3	
54	6.4	9.3	13.9	
68	5.9	5.1	7.7	

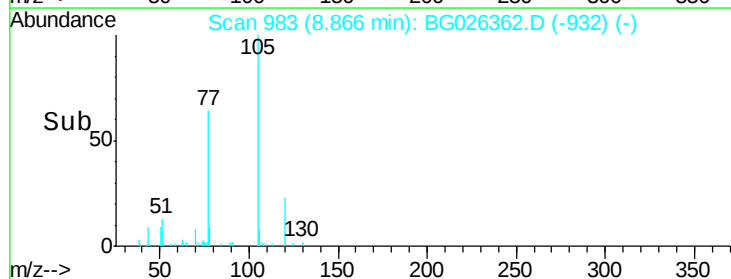
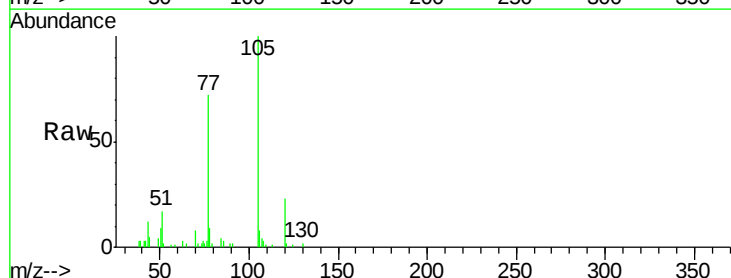
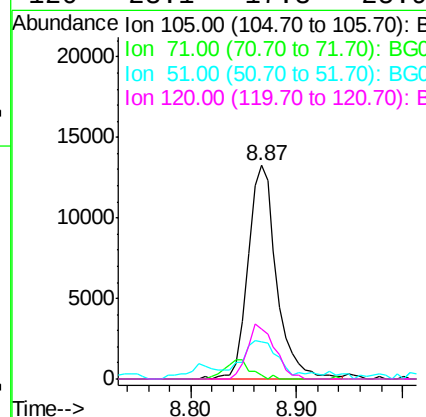
Manual Integrations
APPROVED

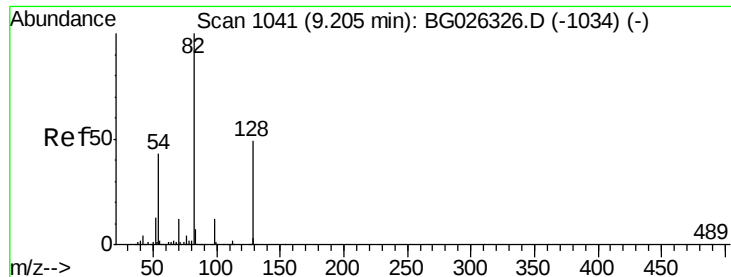
mohammad
3/23/2017 3:31:51 PM



#22
Acetophenone
Concen: 2.02 ng
RT: 8.87 min Scan# 983
Delta R.T. 0.00 min
Lab File: BG026362.D
Acq: 21 Mar 2017 17:25

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	24797		
71	1.8	0.9	1.3	
51	17.2	34.0	51.0	
120	23.1	17.3	25.9	





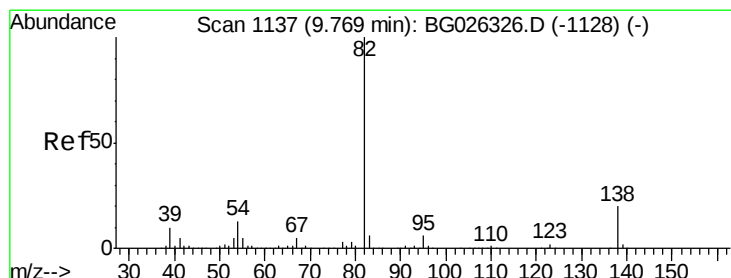
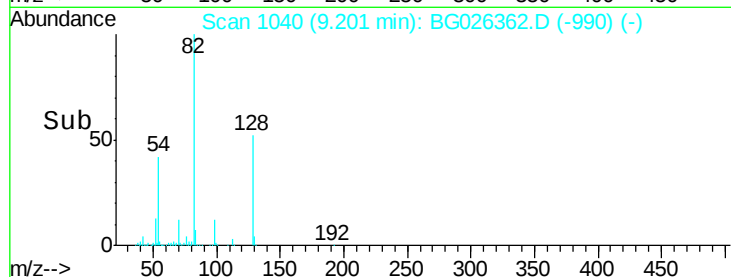
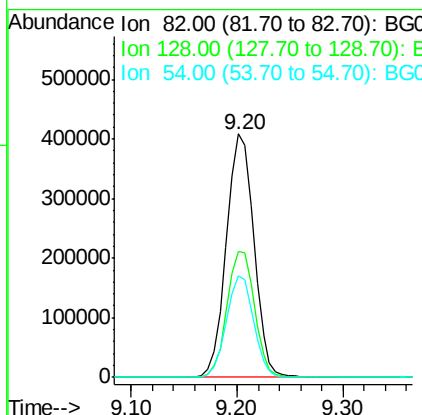
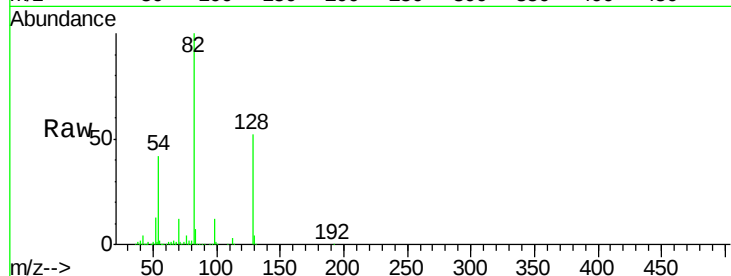
#23
Nitrobenzene-d5
Concen: 82.74 ng
RT: 9.20 min Scan# 1040
Delta R.T. -0.00 min
Lab File: BG026362.D
Acq: 21 Mar 2017 17:25

Instrument :
BNA_G
ClientSampleId :
LOD-SOIL-01-QT2-2017

Tgt Ion	Ratio	Lower	Upper
82	100		
128	51.7	26.4	39.6#
54	41.9	49.4	74.2#

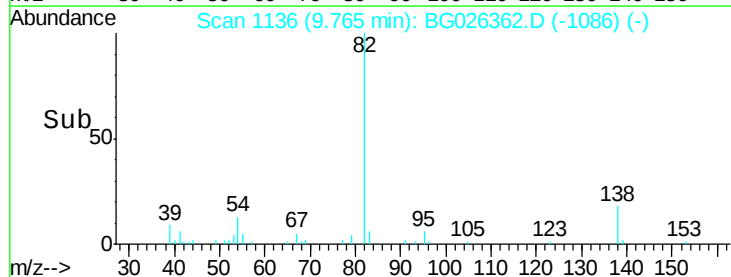
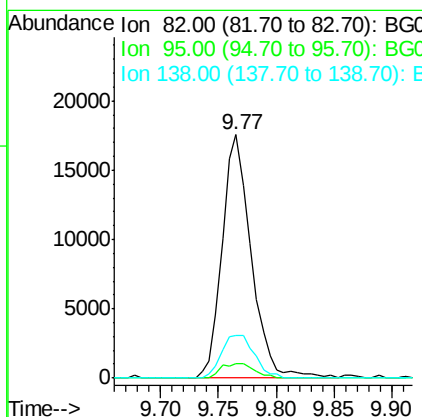
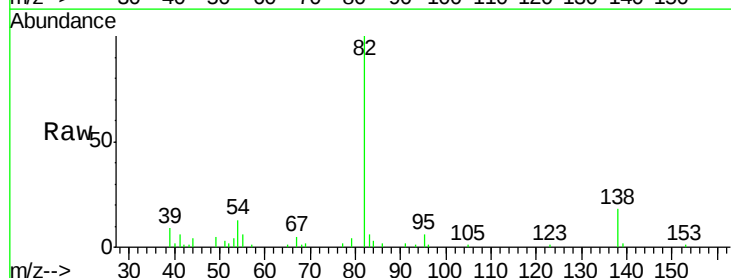
Manual Integrations
APPROVED

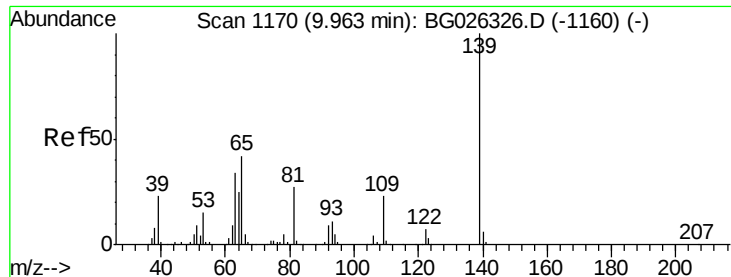
mohammad
3/23/2017 3:31:51 PM



#25
Isophorone
Concen: 1.84 ng
RT: 9.77 min Scan# 1136
Delta R.T. -0.00 min
Lab File: BG026362.D
Acq: 21 Mar 2017 17:25

Tgt Ion	Ratio	Lower	Upper
82	100		
95	6.1	7.5	11.3#
138	17.8	12.3	18.5





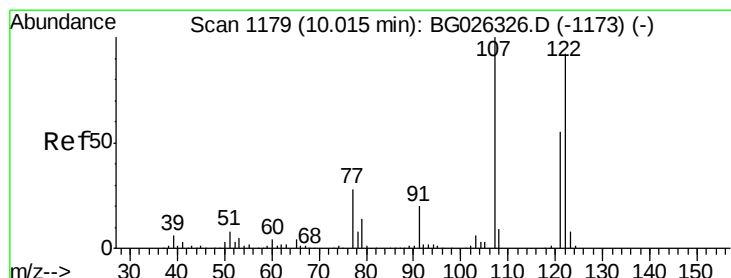
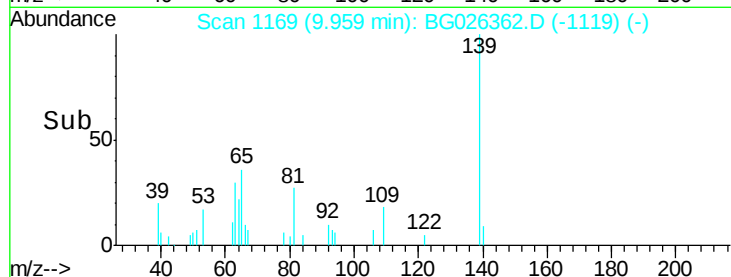
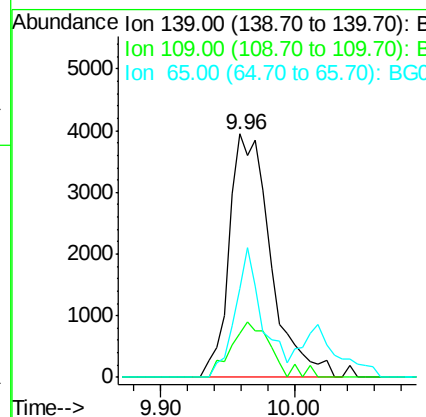
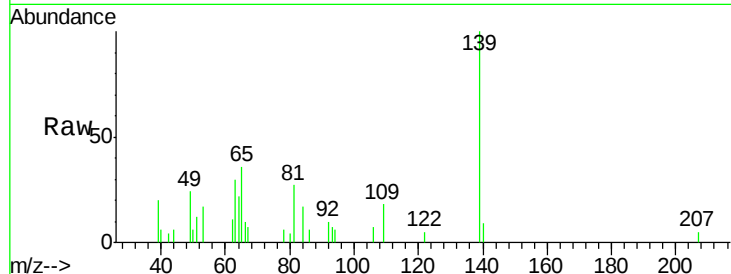
#26
2-Nitrophenol
Concen: 1.87 ng
RT: 9.96 min Scan# 1169
Delta R.T. -0.00 min
Lab File: BG026362.D
Acq: 21 Mar 2017 17:25

Instrument :
BNA_G
ClientSampleId :
LOD-SOIL-01-QT2-2017

Tgt Ion	Ratio	Resp	Lower	Upper
139	100	8510		
109	18.2	38.6	58.0#	
65	36.4	57.1	85.7#	

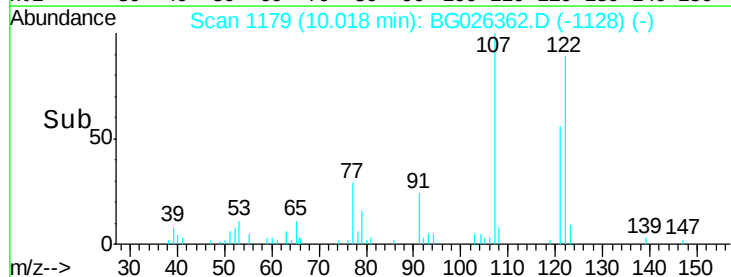
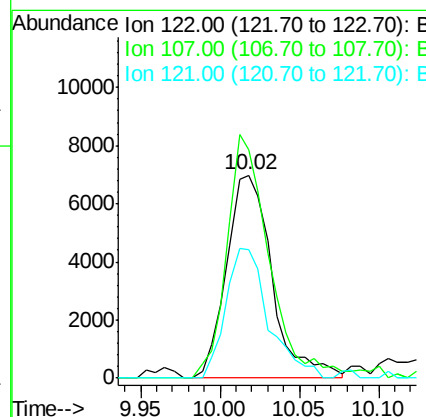
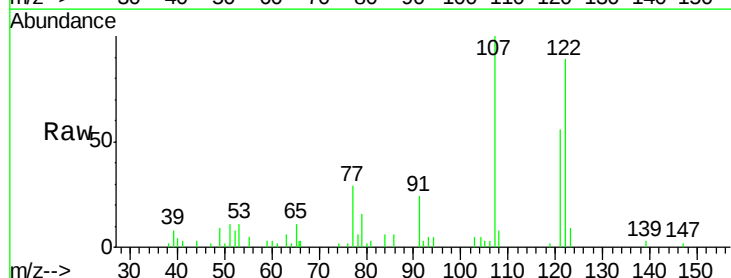
Manual Integrations
APPROVED

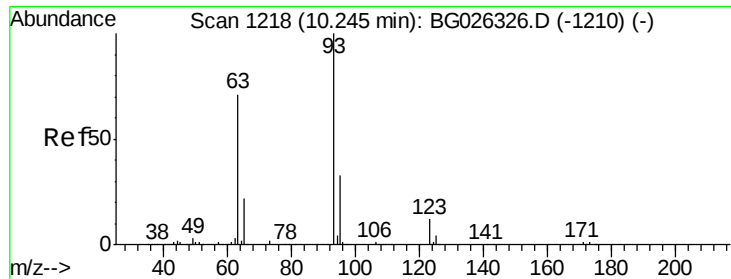
mohammad
3/23/2017 3:31:51 PM



#27
2,4-Dimethylphenol
Concen: 1.86 ng
RT: 10.02 min Scan# 1179
Delta R.T. 0.00 min
Lab File: BG026362.D
Acq: 21 Mar 2017 17:25

Tgt Ion	Ratio	Resp	Lower	Upper
122	100	13891		
107	112.2	104.2	156.4	
121	63.1	46.0	69.0	





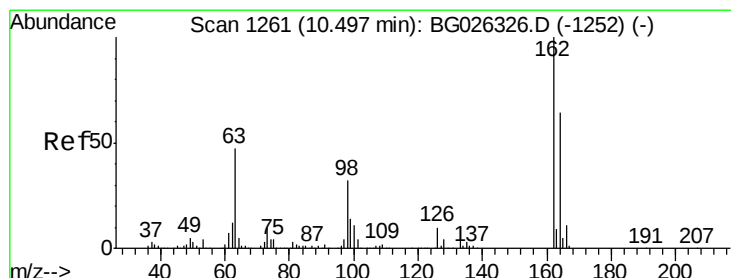
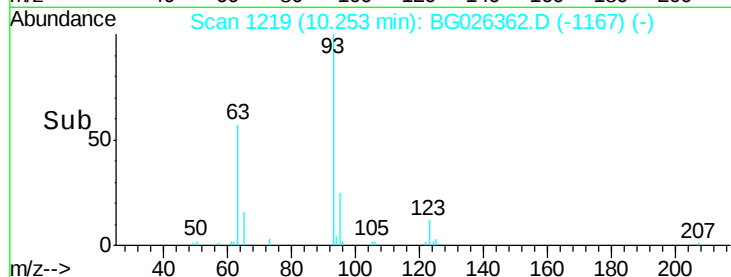
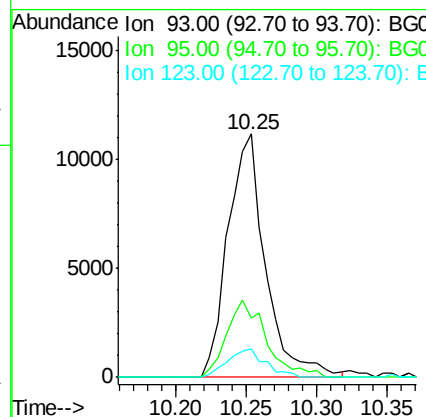
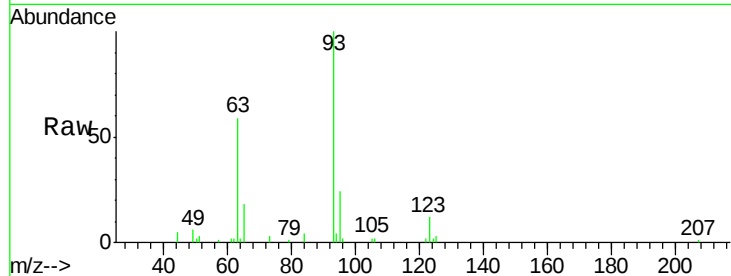
#28
bis(2-Chloroethoxy)methane
Concen: 1.91 ng
RT: 10.25 min Scan# 1219
Delta R.T. 0.01 min
Lab File: BG026362.D
Acq: 21 Mar 2017 17:25

Instrument :
BNA_G
ClientSampleId :
LOD-SOIL-01-QT2-2017

Tgt Ion: 93 Resp: 20708
Ion Ratio Lower Upper
93 100
95 24.3 25.7 38.5#
123 12.0 8.3 12.5

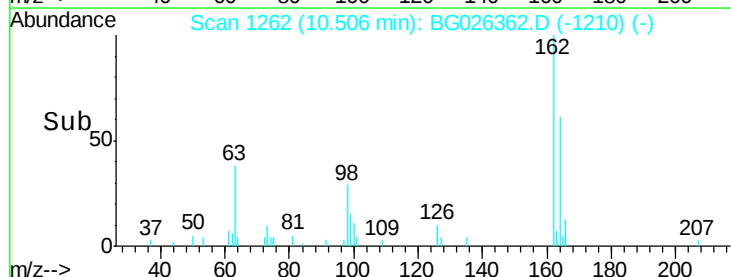
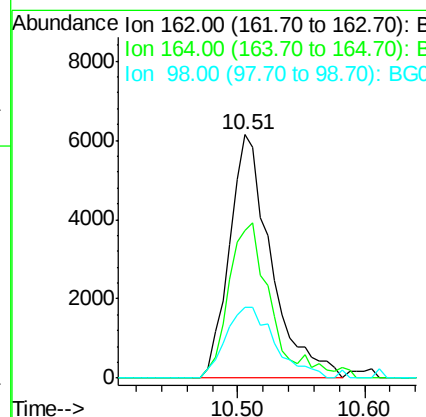
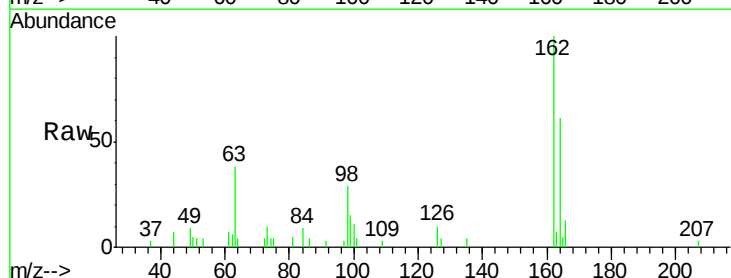
Manual Integrations
APPROVED

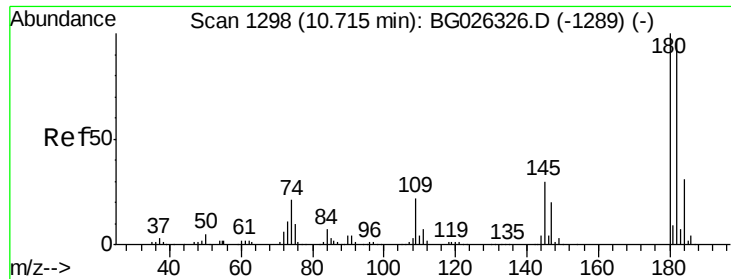
mohammad
3/23/2017 3:31:51 PM



#29
2,4-Dichlorophenol
Concen: 1.85 ng
RT: 10.51 min Scan# 1262
Delta R.T. 0.01 min
Lab File: BG026362.D
Acq: 21 Mar 2017 17:25

Tgt Ion: 162 Resp: 13976
Ion Ratio Lower Upper
162 100
164 60.6 42.4 82.4
98 29.3 20.3 60.3





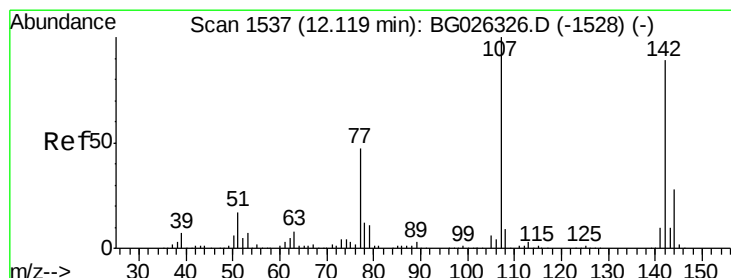
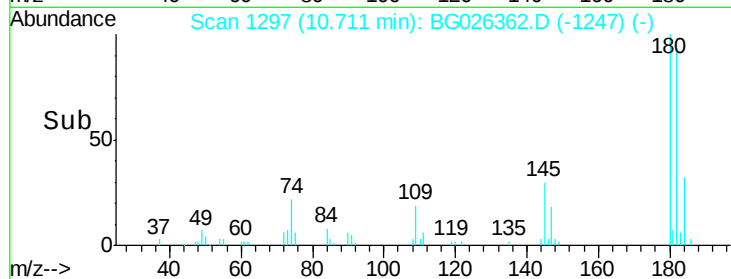
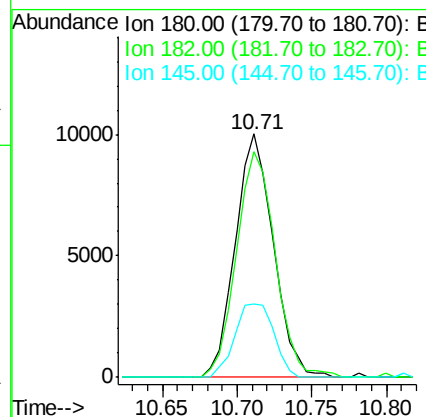
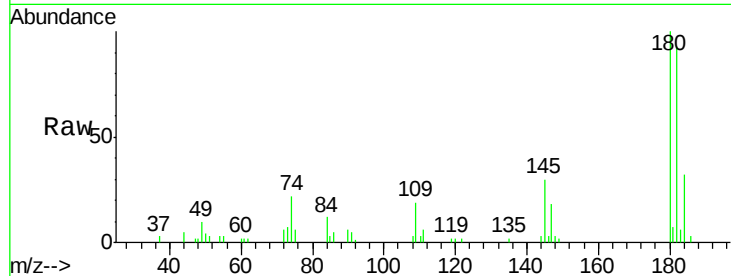
#30
 1,2,4-Trichlorobenzene
 Concen: 2.10 ng
 RT: 10.71 min Scan# 1297
 Delta R.T. -0.00 min
 Lab File: BG026362.D
 Acq: 21 Mar 2017 17:25

Instrument :
 BNA_G
 ClientSampleId :
 LOD-SOIL-01-QT2-2017

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	17795		
182	92.6	77.0	115.4	
145	30.1	23.4	35.0	

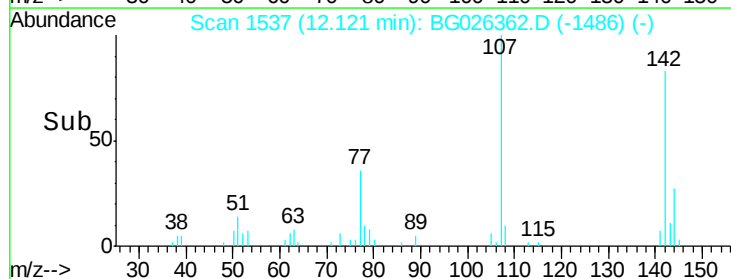
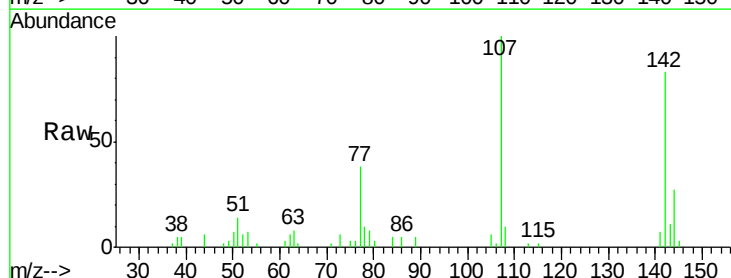
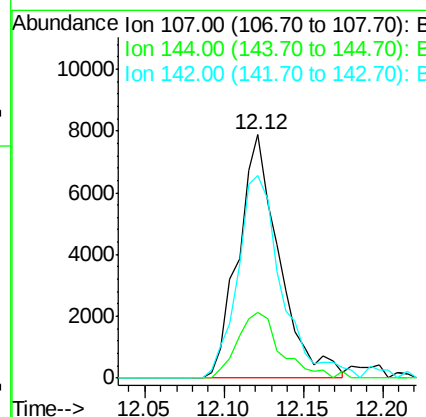
Manual Integrations
 APPROVED

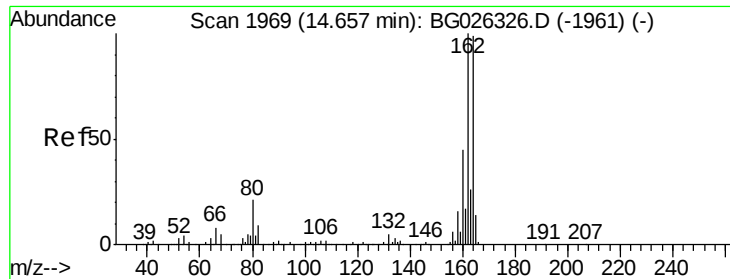
mohammad
 3/23/2017 3:31:51 PM



#36
 4-Chloro-3-methylphenol
 Concen: 1.74 ng
 RT: 12.12 min Scan# 1537
 Delta R.T. 0.00 min
 Lab File: BG026362.D
 Acq: 21 Mar 2017 17:25

Tgt Ion	Ratio	Resp	Lower	Upper
107	100	14083		
144	26.9	17.4	26.0#	
142	83.5	54.1	81.1#	





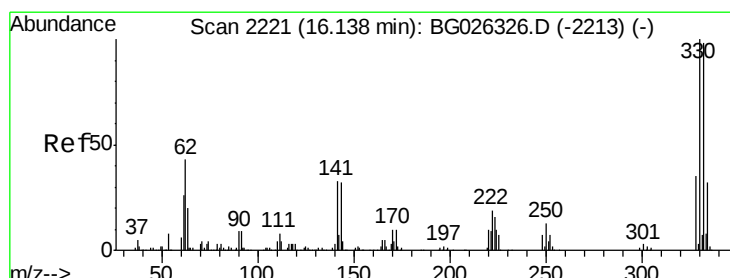
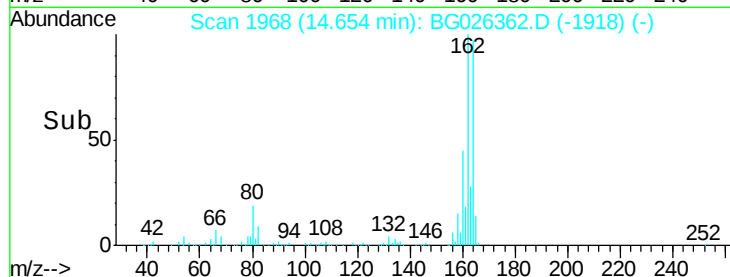
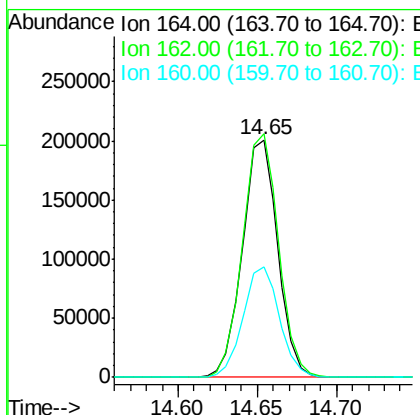
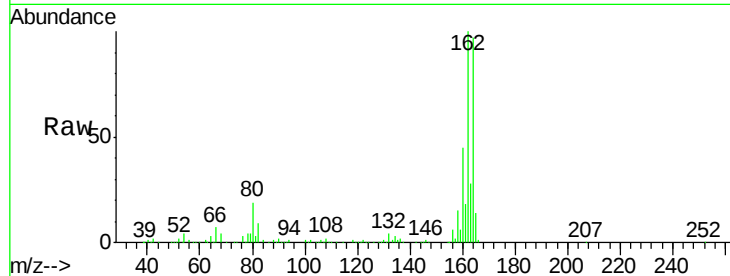
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 14.65 min Scan# 1968
Delta R.T. -0.00 min
Lab File: BG026362.D
Acq: 21 Mar 2017 17:25

Instrument :
BNA_G
ClientSampleId :
LOD-SOIL-01-QT2-2017

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	310410		
162	102.6	85.1	127.7	
160	46.7	34.7	52.1	

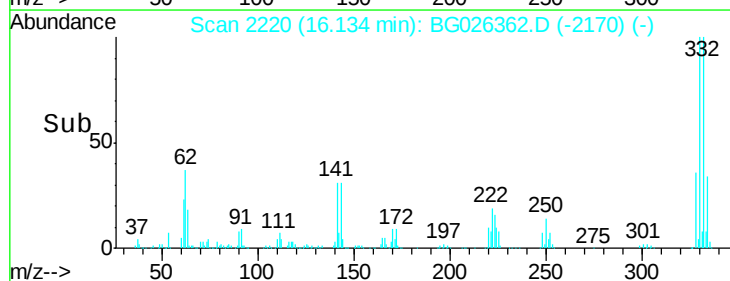
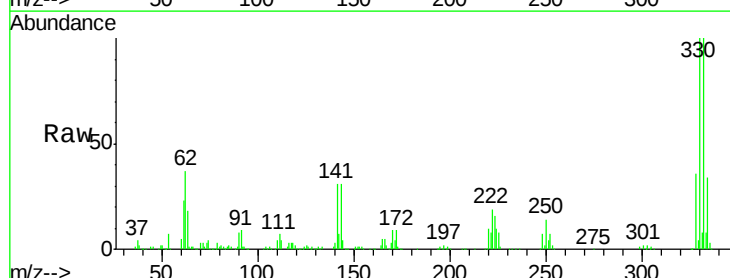
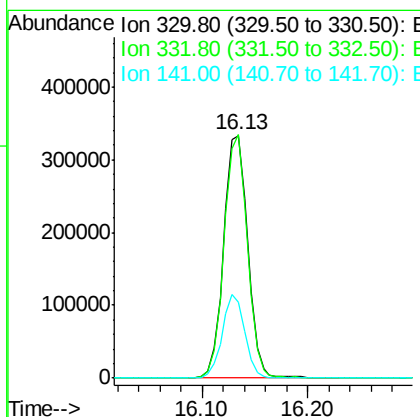
Manual Integrations
APPROVED

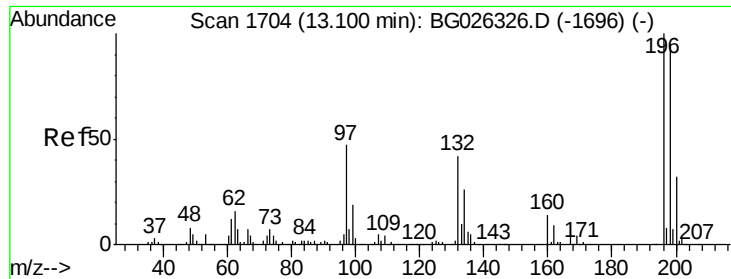
mohammad
3/23/2017 3:31:51 PM



#41
2,4,6-Tribromophenol
Concen: 148.26 ng
RT: 16.13 min Scan# 2220
Delta R.T. -0.00 min
Lab File: BG026362.D
Acq: 21 Mar 2017 17:25

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	527028		
332	96.9	77.3	115.9	
141	32.2	32.1	48.1	





#42

2,4,6-Trichlorophenol

Concen: 1.74 ng

RT: 13.10 min Scan# 1703

Delta R.T. -0.00 min

Lab File: BG026362.D

Acq: 21 Mar 2017 17:25

Instrument :

BNA_G

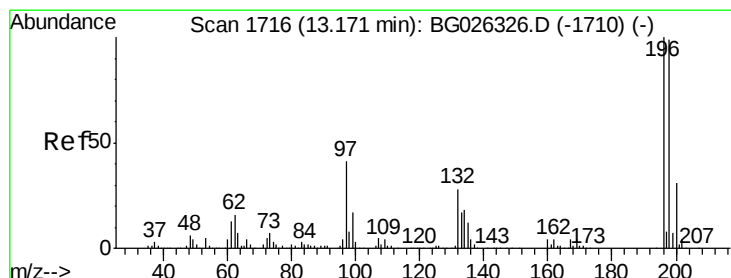
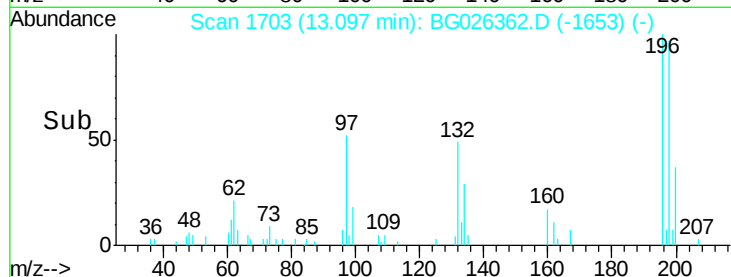
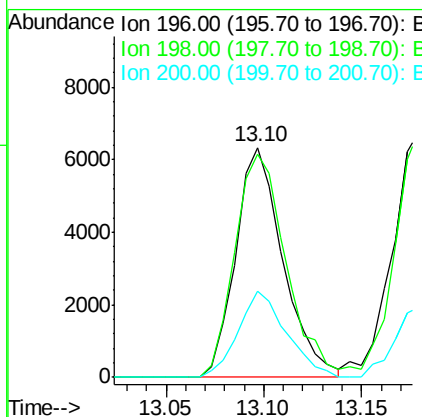
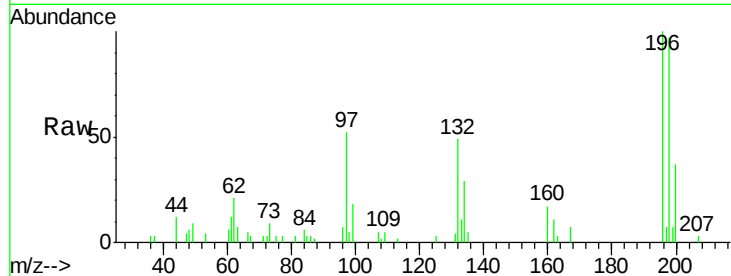
ClientSampleId :

LOD-SOIL-01-QT2-2017

Tgt Ion:	196	Resp:	10655
Ion Ratio	Lower	Upper	
196	100		
198	96.8	81.4	122.2
200	37.3	27.0	40.6

Manual Integrations
APPROVED

mohammad
3/23/2017 3:31:51 PM



#43

2,4,5-Trichlorophenol

Concen: 1.97 ng

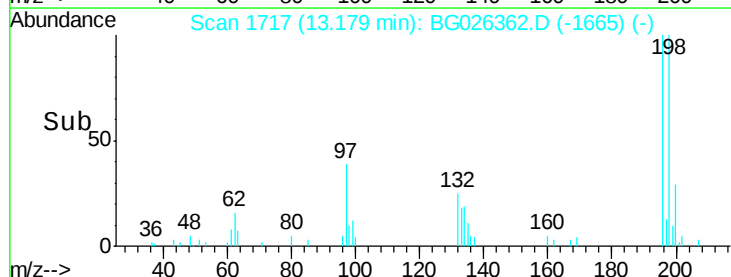
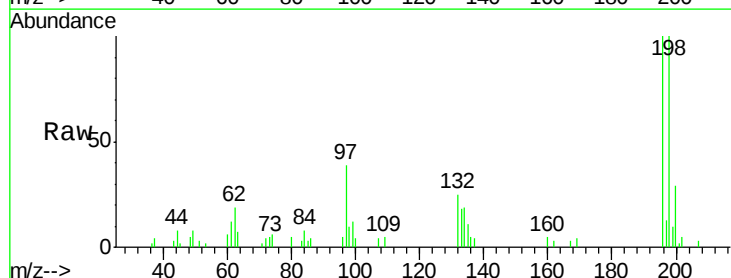
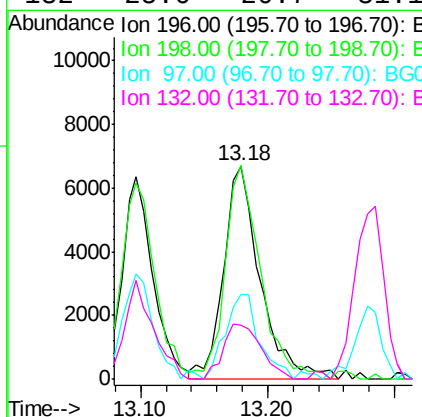
RT: 13.18 min Scan# 1717

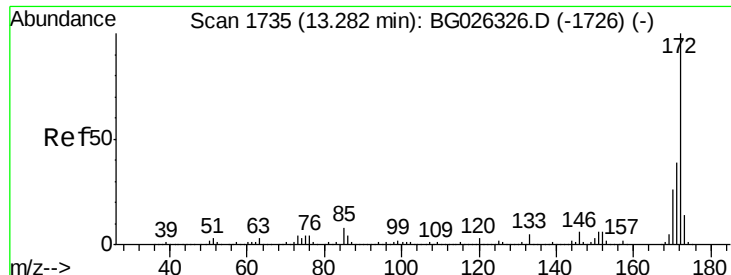
Delta R.T. 0.01 min

Lab File: BG026362.D

Acq: 21 Mar 2017 17:25

Tgt Ion:	196	Resp:	13346
Ion Ratio	Lower	Upper	
196	100		
198	100.5	79.9	119.9
97	39.5	45.4	68.0#
132	25.6	20.7	31.1





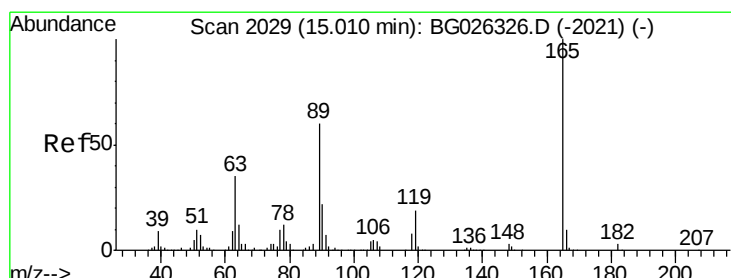
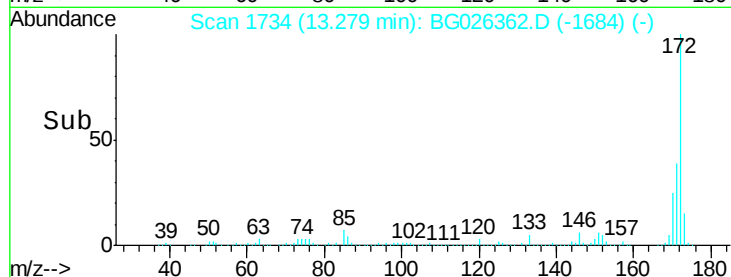
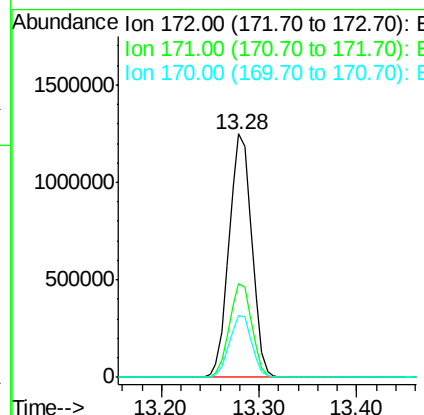
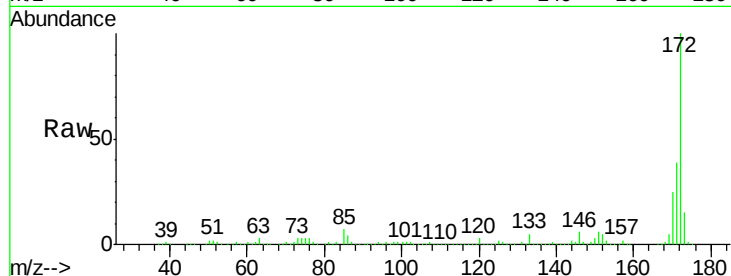
#44
2-Fluorobiphenyl
Concen: 91.06 ng
RT: 13.28 min Scan# 1734
Delta R.T. -0.00 min
Lab File: BG026362.D
Acq: 21 Mar 2017 17:25

Instrument :
BNA_G
ClientSampleId :
LOD-SOIL-01-QT2-2017

Tgt Ion:172 Resp: 2015632
Ion Ratio Lower Upper
172 100
171 38.7 32.2 48.2
170 25.4 21.8 32.6

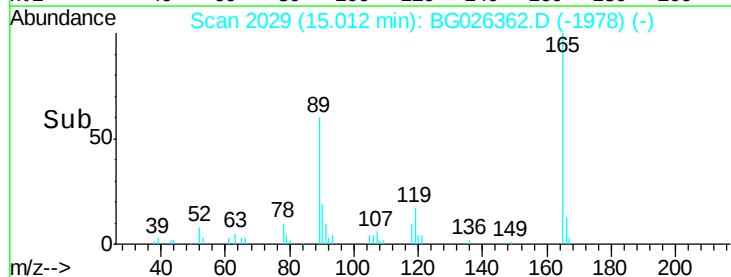
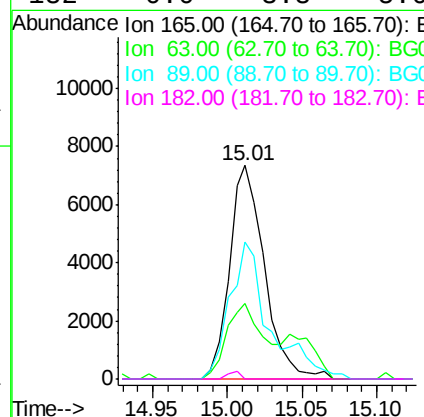
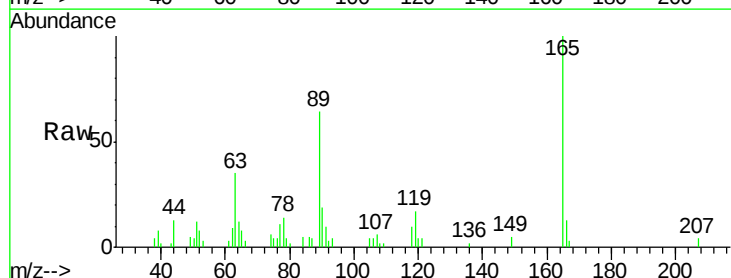
Manual Integrations
APPROVED

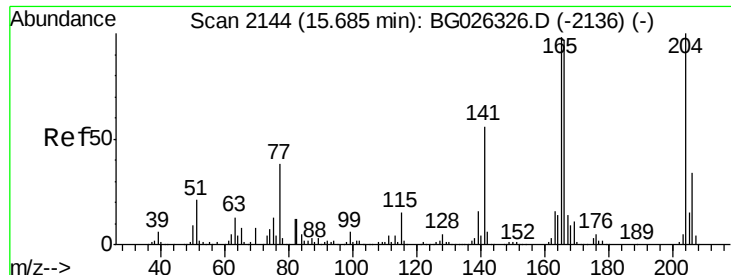
mohammad
3/23/2017 3:31:51 PM



#56
2,4-Dinitrotoluene
Concen: 1.56 ng
RT: 15.01 min Scan# 2029
Delta R.T. 0.00 min
Lab File: BG026362.D
Acq: 21 Mar 2017 17:25

Tgt Ion:165 Resp: 11997
Ion Ratio Lower Upper
165 100
63 35.1 44.0 66.0#
89 63.9 67.3 100.9#
182 0.0 3.8 5.6#





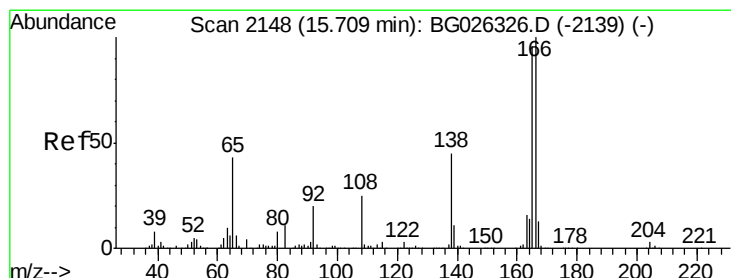
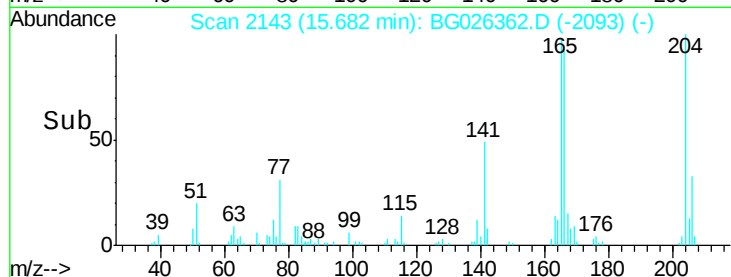
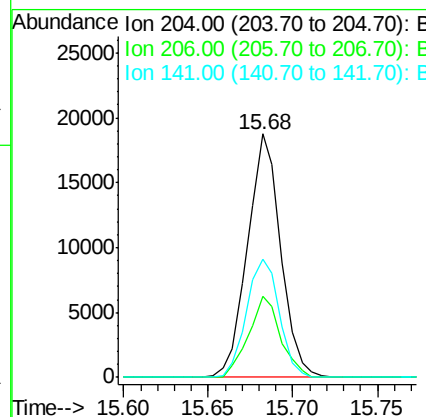
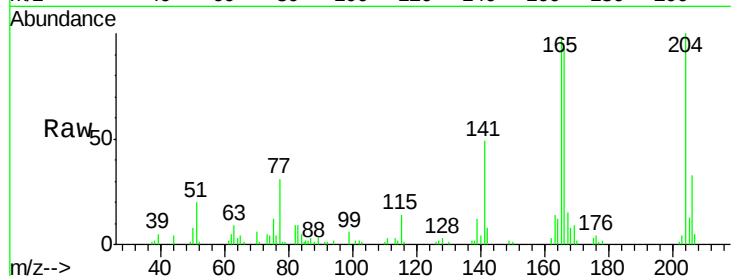
#60
4-Chlorophenyl-phenylether
Concen: 2.14 ng
RT: 15.68 min Scan# 2143
Delta R.T. -0.00 min
Lab File: BG026362.D
Acq: 21 Mar 2017 17:25

Instrument :
BNA_G
ClientSampleId :
LOD-SOIL-01-QT2-2017

Tgt Ion	Ratio	Lower	Upper
204	100		
206	33.1	30.1	45.1
141	48.8	50.6	76.0

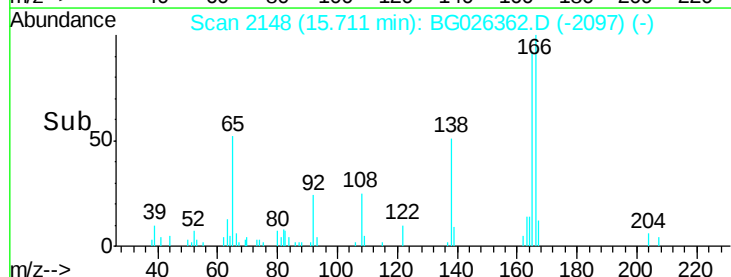
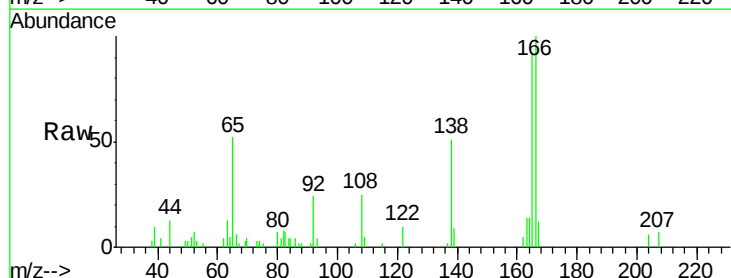
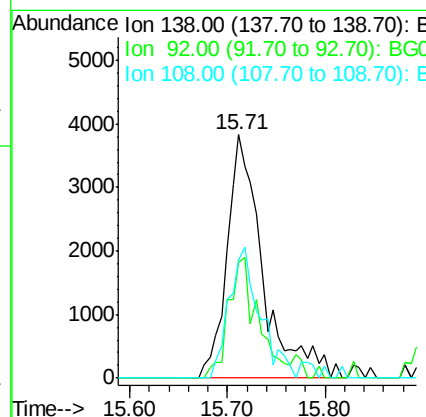
Manual Integrations
APPROVED

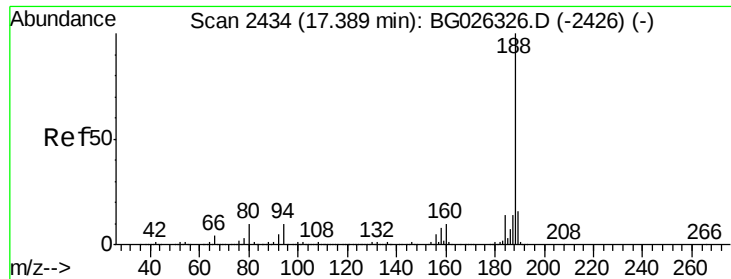
mohammad
3/23/2017 3:31:51 PM



#61
4-Nitroaniline
Concen: 1.54 ng
RT: 15.71 min Scan# 2148
Delta R.T. 0.00 min
Lab File: BG026362.D
Acq: 21 Mar 2017 17:25

Tgt Ion	Ratio	Lower	Upper
138	100		
92	47.5	44.2	84.2
108	48.6	104.8	144.8





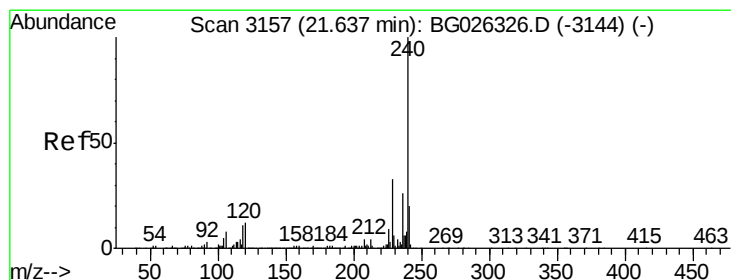
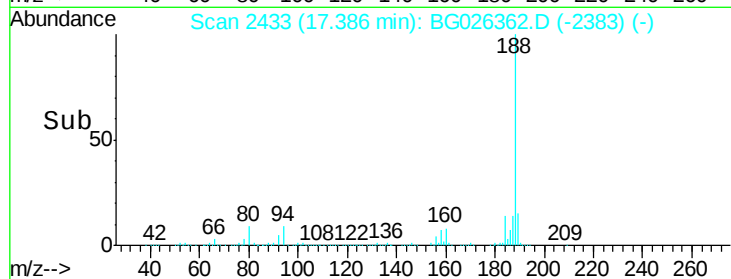
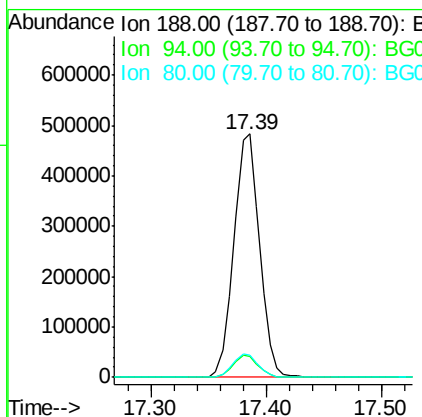
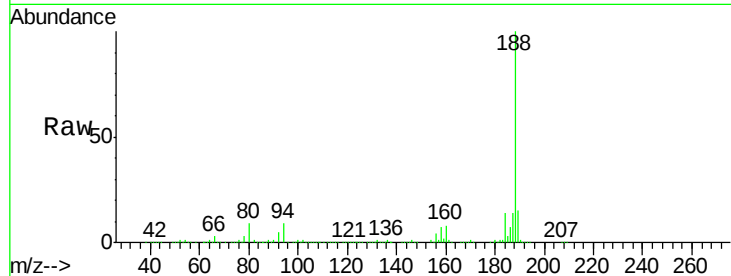
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 17.39 min Scan# 2433
Delta R.T. -0.00 min
Lab File: BG026362.D
Acq: 21 Mar 2017 17:25

Instrument :
BNA_G
ClientSampleId :
LOD-SOIL-01-QT2-2017

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	741919		
94	8.7		5.8	8.8
80	9.2		7.5	11.3

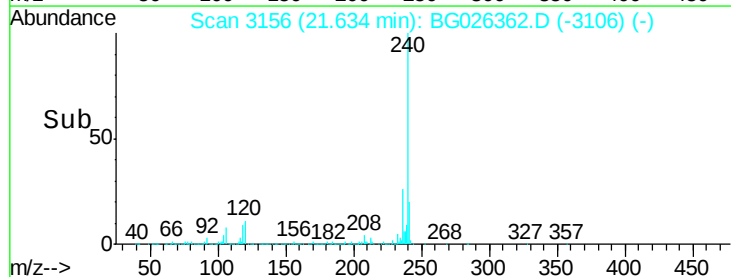
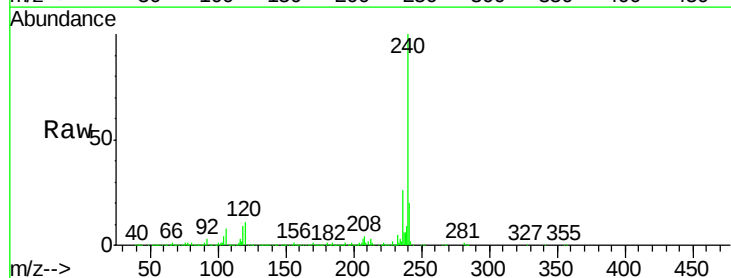
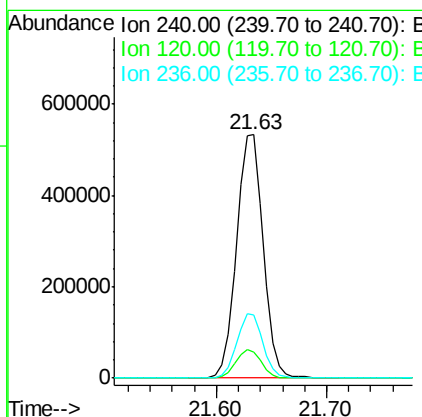
Manual Integrations
APPROVED

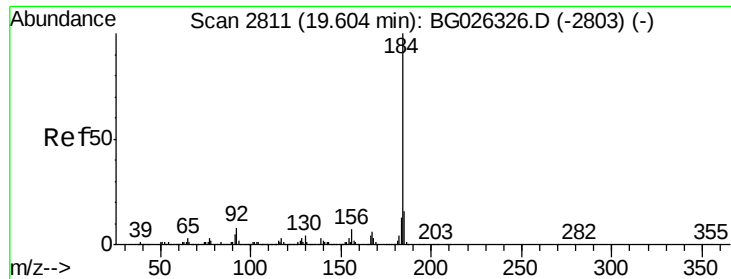
mohammad
3/23/2017 3:31:51 PM



#75
Chrysene-d12
Concen: 20.00 ng
RT: 21.63 min Scan# 3156
Delta R.T. -0.00 min
Lab File: BG026362.D
Acq: 21 Mar 2017 17:25

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	903890		
120	10.8		5.7	8.5#
236	25.8		22.2	33.4





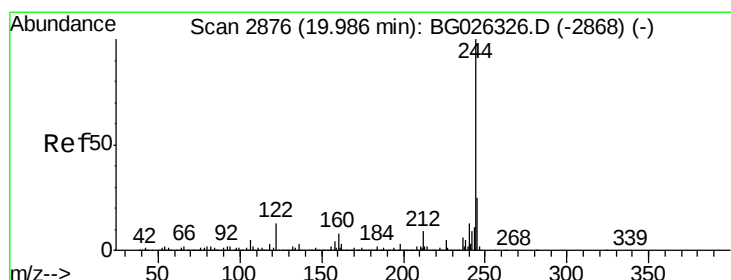
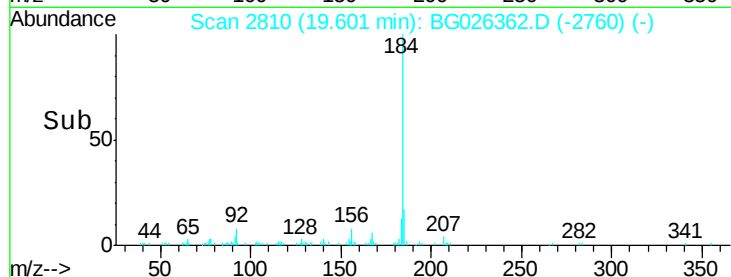
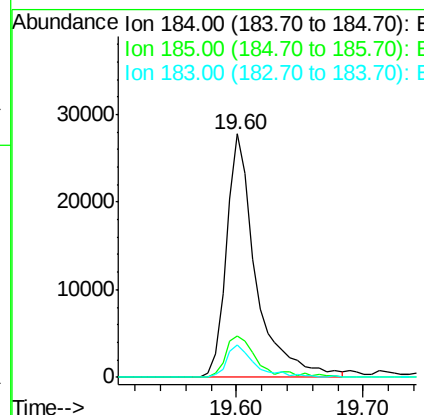
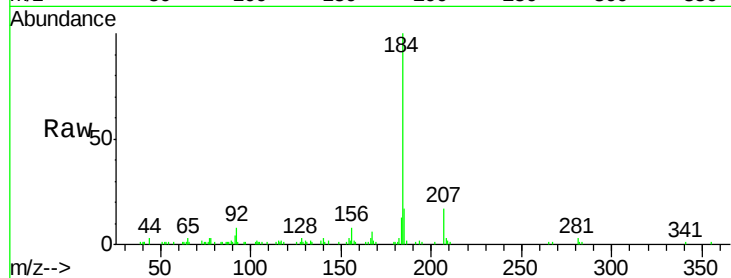
#76
Benzidine
Concen: 1.44 ng
RT: 19.60 min Scan# 2810
Delta R.T. -0.00 min
Lab File: BG026362.D
Acq: 21 Mar 2017 17:25

Instrument :
BNA_G
ClientSampleId :
LOD-SOIL-01-QT2-2017

Tgt Ion	Ratio	Resp	Lower	Upper
184	100	44845		
185	16.8		13.0	19.6
183	13.3		11.0	16.6

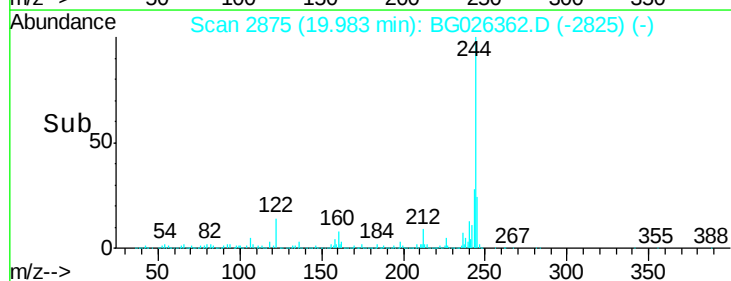
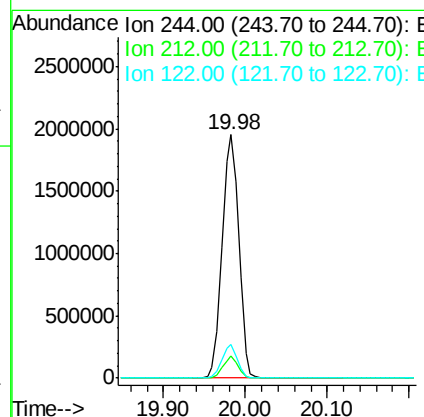
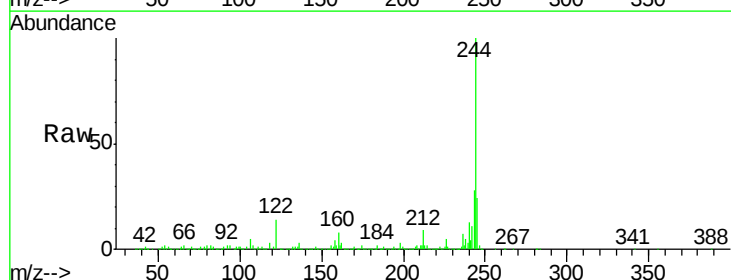
Manual Integrations
APPROVED

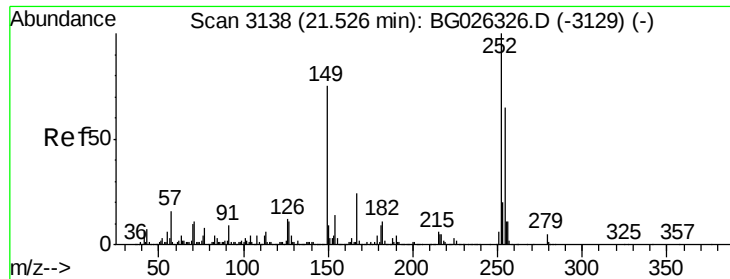
mohammad
3/23/2017 3:31:51 PM



#78
Terphenyl-d14
Concen: 74.83 ng
RT: 19.98 min Scan# 2875
Delta R.T. -0.00 min
Lab File: BG026362.D
Acq: 21 Mar 2017 17:25

Tgt Ion	Ratio	Resp	Lower	Upper
244	100	2785032		
212	8.9		10.0	15.0#
122	13.7		8.6	12.8#





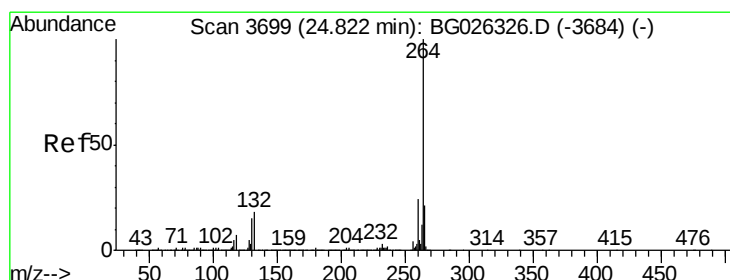
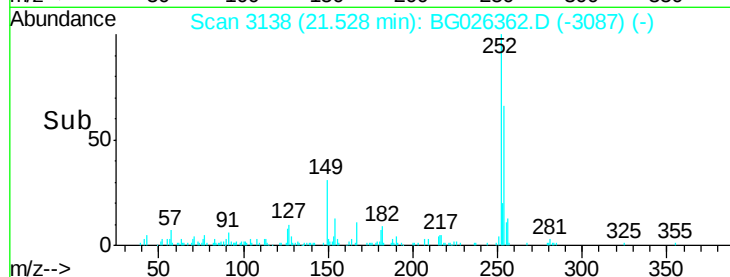
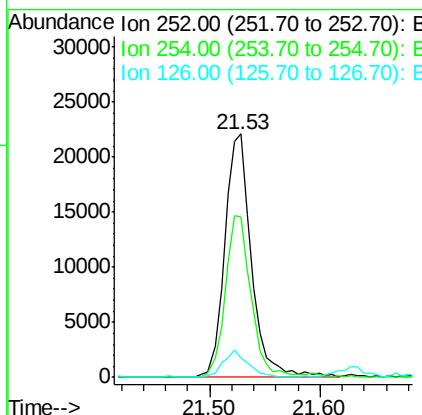
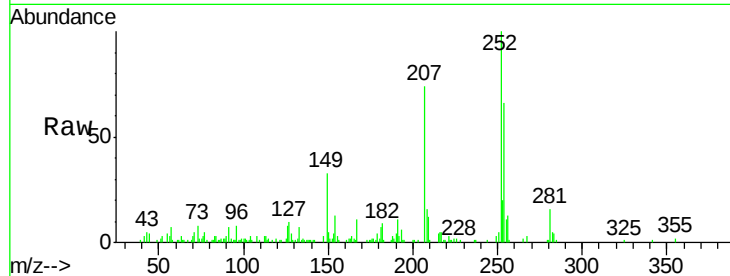
#81
 3,3'-Dichlorobenzidine
 Concen: 1.79 ng
 RT: 21.53 min Scan# 3138
 Delta R.T. 0.00 min
 Lab File: BG026362.D
 Acq: 21 Mar 2017 17:25

Instrument :
 BNA_G
 ClientSampleId :
 LOD-SOIL-01-QT2-2017

Tgt Ion	Ratio	Lower	Upper
252	100		
254	65.9	53.1	79.7
126	8.2	7.0	10.4

Manual Integrations
 APPROVED

mohammad
 3/23/2017 3:31:51 PM



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 24.81 min Scan# 3697
 Delta R.T. -0.01 min
 Lab File: BG026362.D
 Acq: 21 Mar 2017 17:25

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.8	21.8	32.8
265	22.1	18.2	27.4

