

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF053019\
 Data File : BF114656.D
 Acq On : 30 May 2019 13:08
 Operator : HP/JU
 Sample : K2241-01
 Misc : LOD-SOIL-5PPM
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT2-2019

Manual Integrations
 APPROVED

mohammad
 6/3/2019 8:47:03 AM

Quant Time: May 30 14:46:06 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF052919.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu May 30 14:17:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.69	152	412684	20.00	ng	0.00
21) Naphthalene-d8	7.97	136	1555639	20.00	ng	0.00
39) Acenaphthene-d10	9.72	164	786814	20.00	ng	0.00
64) Phenanthrene-d10	11.19	188	1488563	20.00	ng	0.00
76) Chrysene-d12	13.81	240	1126995	20.00	ng	0.00
87) Perylene-d12	15.20	264	1192429	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.30	112	3009285	128.03	ng	0.00
7) Phenol-d6	6.33	99	3575339	126.23	ng	0.00
23) Nitrobenzene-d5	7.26	82	2189545	87.81	ng	0.00
42) 2,4,6-Tribromophenol	10.50	330	1064043	141.93	ng	0.00
45) 2-Fluorobiphenyl	9.05	172	3751008	79.20	ng	0.00
79) Terphenyl-d14	12.78	244	3993089	66.62	ng	0.00

Target Compounds				Qvalue		
2) 1,4-Dioxane	2.37	88	58981	5.229	ng	98
3) Pyridine	3.12	79	145928	4.445	ng	97
4) n-Nitrosodimethylamine	2.98	42	56345	4.241	ng	# 97
6) Aniline	6.36	93	214926	5.023	ng	99
8) 2-Chlorophenol	6.47	128	142828	5.262	ng	91
9) Benzaldehyde	6.23	77	117912	7.296	ng	99
10) Phenol	6.34	94	180252	5.268	ng	92
11) bis(2-Chloroethyl)ether	6.43	93	136599	5.219	ng	95
12) 1,3-Dichlorobenzene	6.63	146	164938	5.333	ng	97
13) 1,4-Dichlorobenzene	6.71	146	167729	5.406	ng	99
14) 1,2-Dichlorobenzene	6.86	146	156248	5.532	ng	97
15) Benzyl Alcohol	6.83	79	114281m	5.129	ng	
16) 2,2'-oxybis(1-Chloropropan	6.97	45	196813	4.903	ng	98
17) 2-Methylphenol	6.94	107	115582	5.034	ng	99
18) Hexachloroethane	7.21	117	57076	4.859	ng	96
19) n-Nitroso-di-n-propylamine	7.10	70	99886	5.109	ng	95
20) 3+4-Methylphenols	7.10	107	150230	5.563	ng	92
22) Acetophenone	7.10	105	204484	6.169	ng	99
24) Nitrobenzene	7.27	77	151734	5.729	ng	98
25) Isophorone	7.51	82	270441	5.404	ng	98
26) 2-Nitrophenol	7.59	139	61751	4.790	ng	99
27) 2,4-Dimethylphenol	7.63	122	128854	6.009	ng	99
28) bis(2-Chloroethoxy)methane	7.73	93	170353	5.348	ng	98
29) 2,4-Dichlorophenol	7.82	162	119094	5.457	ng	98
30) 1,2,4-Trichlorobenzene	7.92	180	140078	5.633	ng	99
31) Naphthalene	7.99	128	444260	6.200	ng	96
32) Benzoic acid	7.68	122	48707	3.497	ng	95
33) 4-Chloroaniline	8.04	127	181535	5.318	ng	97
34) Hexachlorobutadiene	8.12	225	74749	5.411	ng	98
35) Caprolactam	8.36	113	35684	4.845	ng	96
36) 4-Chloro-3-methylphenol	8.52	107	119697	5.469	ng	99
37) 2-Methylnaphthalene	8.68	142	304622	6.398	ng	98
38) 1-Methylnaphthalene	8.78	142	287167	6.366	ng	99
40) 1,2,4,5-Tetrachlorobenzene	8.85	216	131779	6.289	ng	98

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF053019\
 Data File : BF114656.D
 Acq On : 30 May 2019 13:08
 Operator : HP/JU
 Sample : K2241-01
 Misc : LOD-SOIL-5PPM
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT2-2019

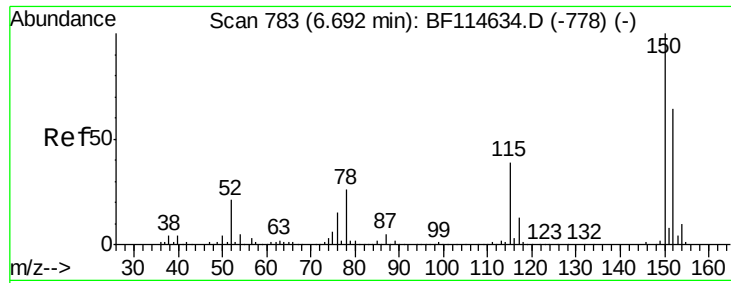
Manual Integrations
 APPROVED

mohammad
 6/3/2019 8:47:03 AM

Quant Time: May 30 14:46:06 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF052919.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu May 30 14:17:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Hexachlorocyclopentadiene	8.85	237	79235	5.722	nq	98
43) 2,4,6-Trichlorophenol	8.96	196	84960	5.153	nq	99
44) 2,4,5-Trichlorophenol	8.99	196	89637	5.448	nq	99
46) 1,1'-Biphenyl	9.15	154	372588	6.379	nq	96
47) 2-Chloronaphthalene	9.17	162	282259	5.891	nq	94
48) 2-Nitroaniline	9.25	65	67631	4.574	nq	91
49) Acenaphthylene	9.57	152	451089	6.095	nq	97
50) Dimethylphthalate	9.44	163	318399	5.807	nq	98
51) 2,6-Dinitrotoluene	9.50	165	64025	5.026	nq	99
52) Acenaphthene	9.75	154	268684	5.919	nq	99
53) 3-Nitroaniline	9.66	138	74128	4.754	nq	93
54) 2,4-Dinitrophenol	9.76	184	13849	2.756	nq	# 42
55) Dibenzofuran	9.92	168	399945	6.190	nq	95
56) 4-Nitrophenol	9.81	139	51851	4.487	nq	92
57) 2,4-Dinitrotoluene	9.89	165	79460	4.860	nq	97
58) Fluorene	10.26	166	306417	7.023	nq	100
59) 2,3,4,6-Tetrachlorophenol	10.03	232	72926	5.415	nq	99
60) Diethylphthalate	10.15	149	316500	5.652	nq	98
61) 4-Chlorophenyl-phenylether	10.26	204	147113	6.740	nq	99
62) 4-Nitroaniline	10.26	138	71893	4.732	nq	98
63) Azobenzene	10.42	77	296363	5.765	nq	96
65) 4,6-Dinitro-2-methylphenol	10.30	198	23949	3.628	nq	95
66) n-Nitrosodiphenylamine	10.37	169	265562	6.038	nq	99
67) 4-Bromophenyl-phenylether	10.74	248	88277	5.530	nq	98
68) Hexachlorobenzene	10.81	284	97396	5.633	nq	95
69) Atrazine	10.90	200	76406	5.514	nq	98
70) Pentachlorophenol	11.00	266	45402	4.555	nq	97
71) Phenanthrene	11.22	178	461369	6.076	nq	96
72) Anthracene	11.26	178	466423	6.069	nq	97
73) Carbazole	11.42	167	405267	6.000	nq	97
74) Di-n-butylphthalate	11.76	149	483766	5.895	nq	97
75) Fluoranthene	12.39	202	462194	5.878	nq	95
77) Benzidine	12.52	184	237783	5.124	nq	97
78) Pyrene	12.62	202	468548	4.915	nq	97
80) Butylbenzylphthalate	13.25	149	187848	3.921	nq	98
81) Benzo(a)anthracene	13.80	228	426114	4.920	nq	97
82) 3,3'-Dichlorobenzidine	13.77	252	151398	4.527	nq	98
83) Chrysene	13.83	228	405268	4.898	nq	96
84) Bis(2-ethylhexyl)phthalate	13.82	149	268164	4.527	nq	98
85) Di-n-octyl phthalate	14.43	149	446956	4.343	nq	98
86) Indeno(1,2,3-cd)pyrene	16.51	276	374317	4.517	nq	99
88) Benzo(b)fluoranthene	14.81	252	396279	5.276	nq	97
89) Benzo(k)fluoranthene	14.83	252	390905	5.988	nq	97
90) Benzo(a)pyrene	15.14	252	367593	5.571	nq	99
91) Dibenzo(a,h)anthracene	16.53	278	317594	5.447	nq	99
92) Benzo(g,h,i)perylene	16.90	276	299748	5.297	nq	98

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



#1

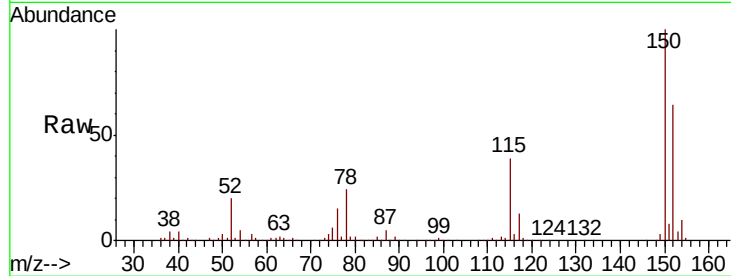
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.69 min Scan# 783
Delta R.T. -0.00 min
Lab File: BF114656.D
Acq: 30 May 2019 13:08

Instrument :
BNA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.4	124.4	186.6
115	60.2	48.7	73.1

Manual Integrations
APPROVED

mohammad
6/3/2019 8:47:03 AM

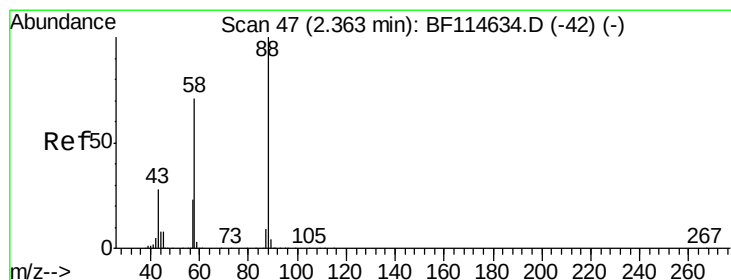
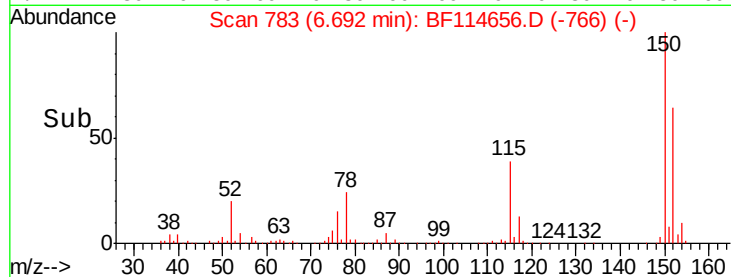
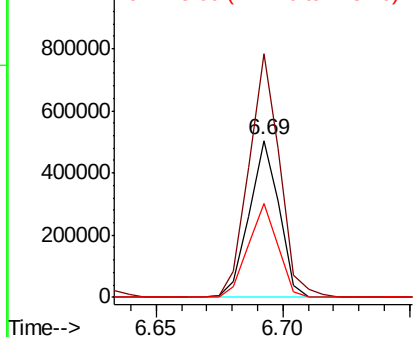


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

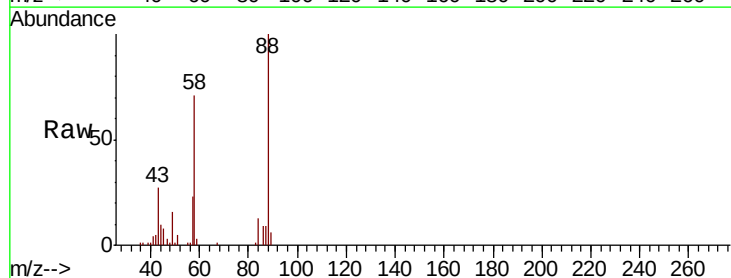
Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane
Concen: 5.229 ng
RT: 2.37 min Scan# 48
Delta R.T. 0.01 min
Lab File: BF114656.D
Acq: 30 May 2019 13:08

Tgt Ion	Ratio	Lower	Upper
88	100		
58	69.9	57.2	85.8
43	28.6	22.6	33.8

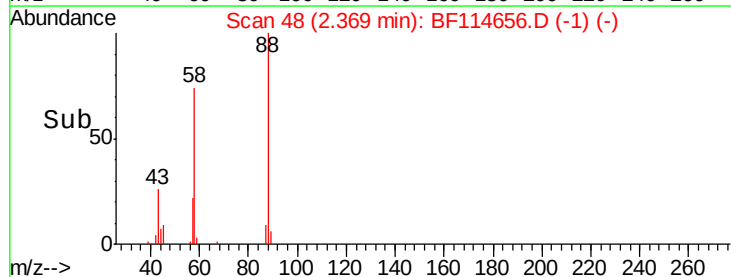
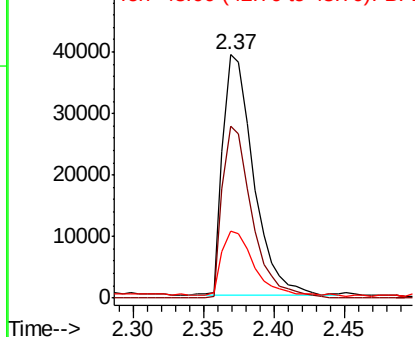


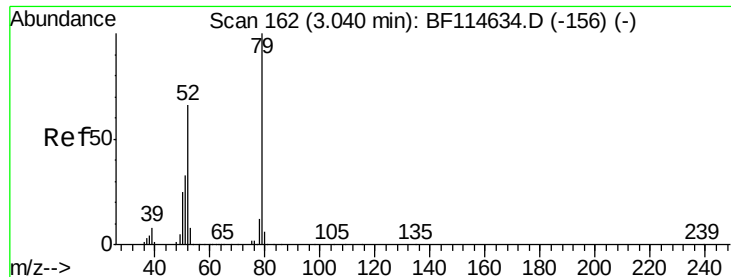
Abundance

Ion 88.00 (87.70 to 88.70): BF1

Ion 58.00 (57.70 to 58.70): BF1

Ion 43.00 (42.70 to 43.70): BF1





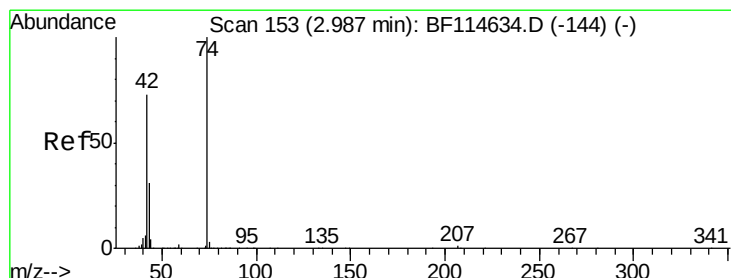
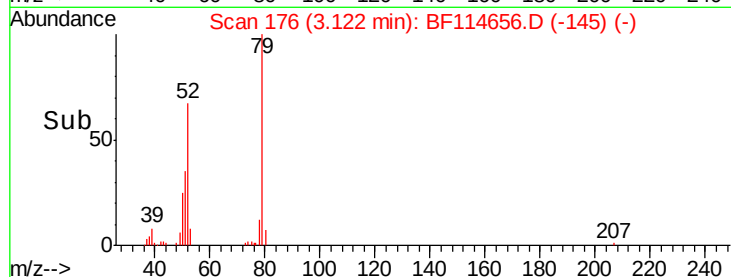
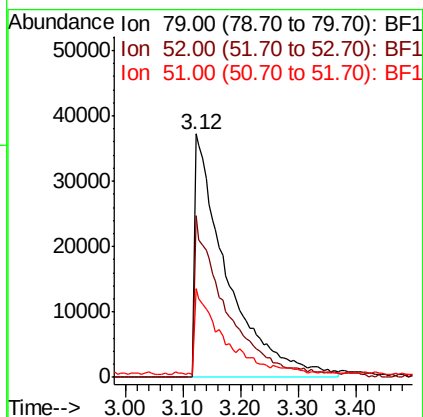
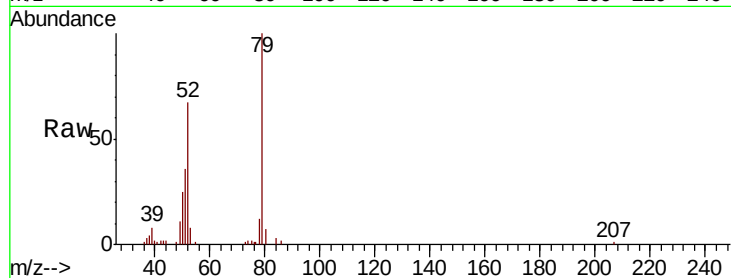
#3
 Pvridine
 Concen: 4.445 ng
 RT: 3.12 min Scan# 176
 Delta R.T. 0.08 min
 Lab File: BF114656.D
 Acq: 30 May 2019 13:08

Instrument :
 BNA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
79	100		
52	66.6	52.8	79.2
51	36.5	26.3	39.5

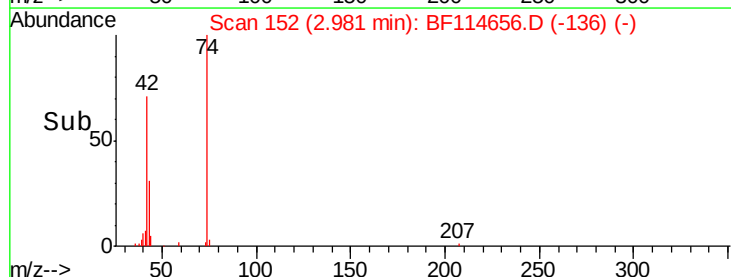
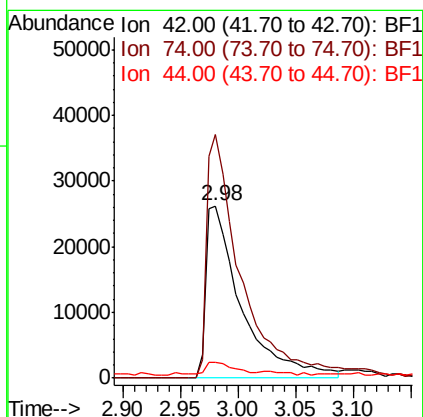
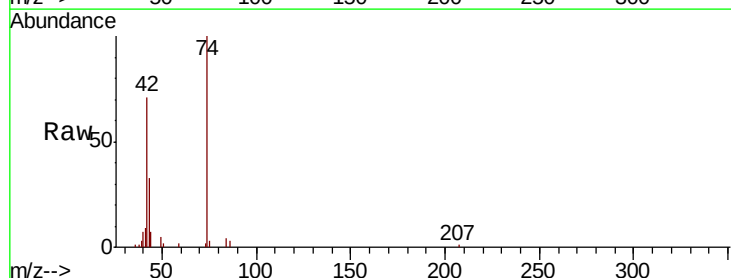
Manual Integrations
 APPROVED

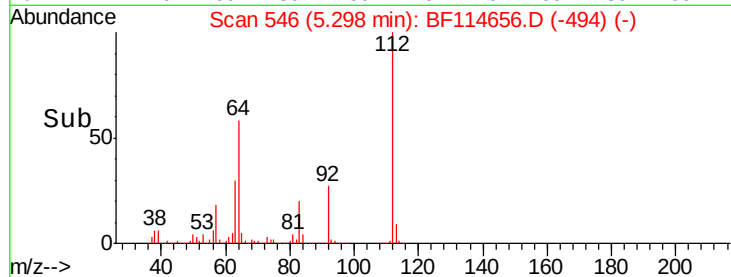
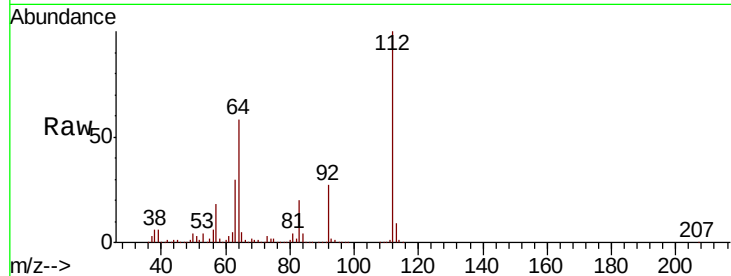
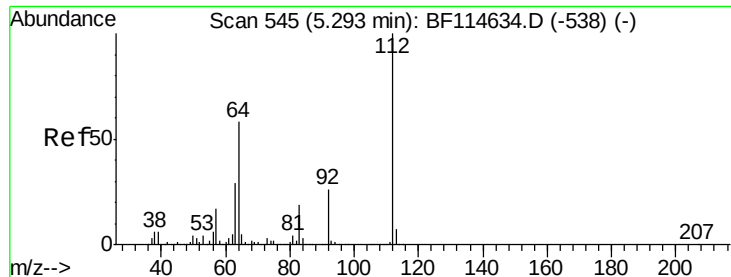
mohammad
 6/3/2019 8:47:03 AM



#4
 n-Nitrosodimethylamine
 Concen: 4.241 ng
 RT: 2.98 min Scan# 152
 Delta R.T. -0.01 min
 Lab File: BF114656.D
 Acq: 30 May 2019 13:08

Tgt Ion	Ratio	Lower	Upper
42	100		
74	141.3	110.0	165.0
44	9.5	5.6	8.4#





#5

2-Fluorophenol

Concen: 128.026 ng

RT: 5.30 min Scan# 546

Delta R.T. 0.01 min

Lab File: BF114656.D

Acq: 30 May 2019 13:08

Tot Ion:	112	Resp:	3009285
Ion	Ratio	Lower	Upper
112	100		
64	57.8	46.1	69.1
63	30.1	23.4	35.2

Instrument :

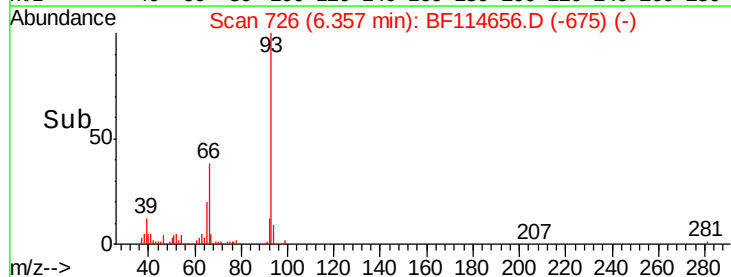
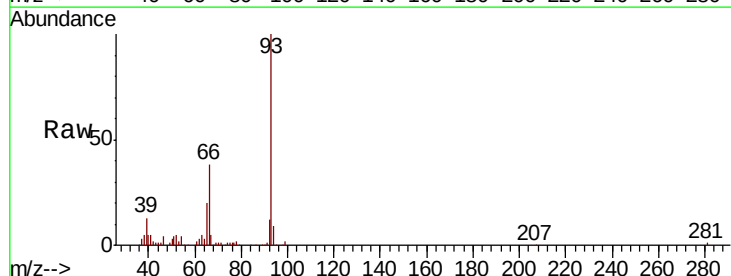
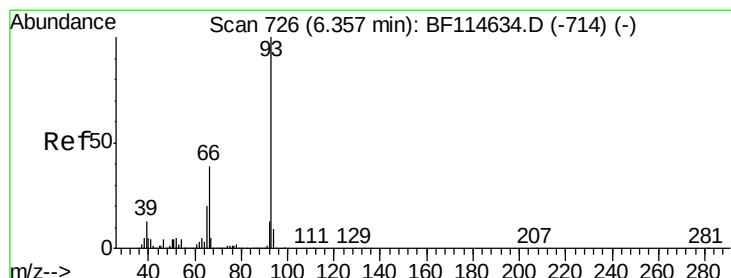
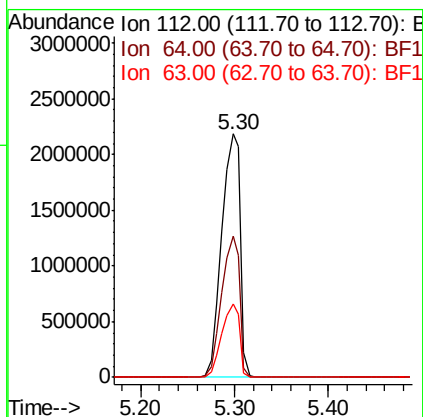
BNA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Manual Integrations
APPROVED

mohammad
6/3/2019 8:47:03 AM



#6

Aniline

Concen: 5.023 ng

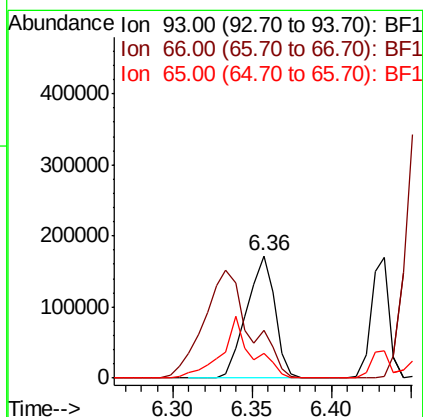
RT: 6.36 min Scan# 726

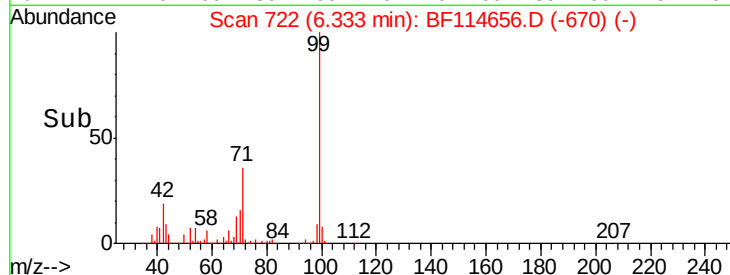
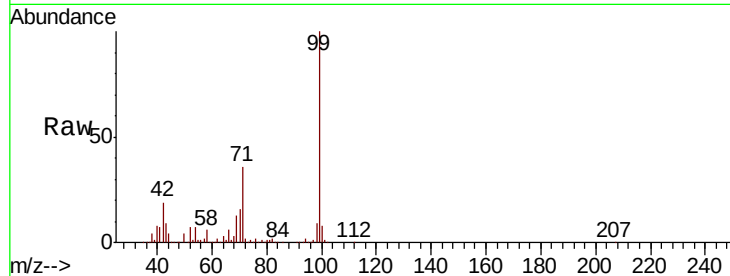
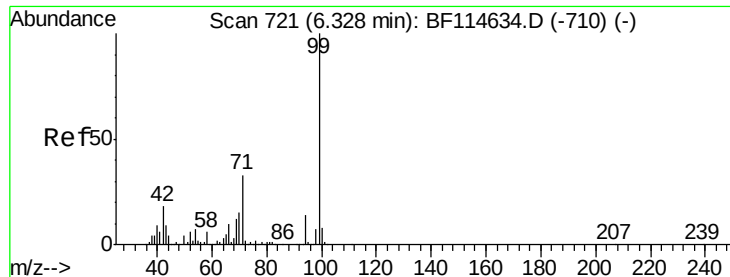
Delta R.T. -0.00 min

Lab File: BF114656.D

Acq: 30 May 2019 13:08

Tgt Ion:	93	Resp:	214926
Ion	Ratio	Lower	Upper
93	100		
66	38.5	31.4	47.2
65	20.1	16.2	24.2





#7

Phenol-d6

Concen: 126.227 ng

RT: 6.33 min Scan# 722

Delta R.T. 0.01 min

Lab File: BF114656.D

Acq: 30 May 2019 13:08

Tot Ion: 99 Resp: 3575339

Ion Ratio Lower Upper

99 100

42 18.6 14.7 22.1

71 35.6 26.6 40.0

Instrument :

BNA_F

ClientSampleId :

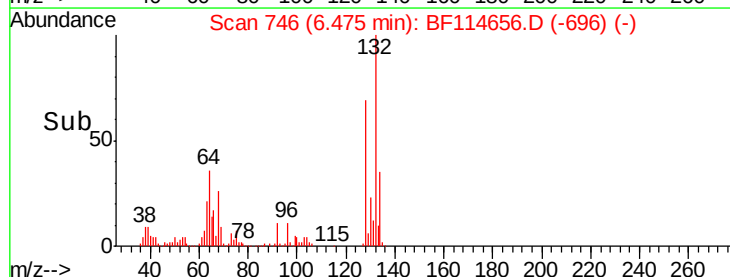
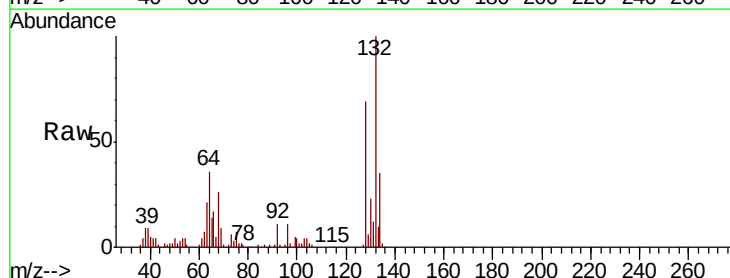
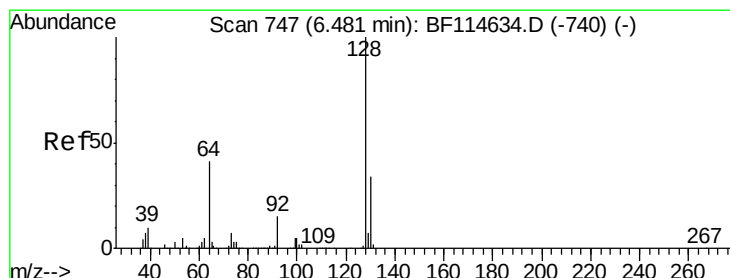
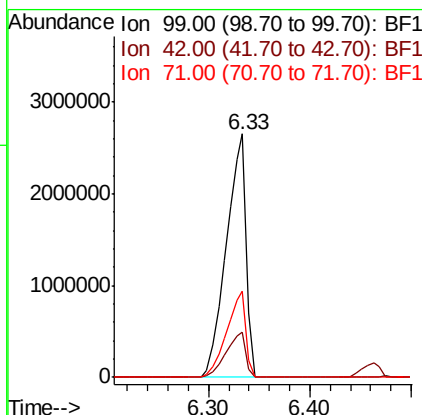
LOD-MDL-SOIL-01-QT2-2019

Manual Integrations

APPROVED

mohammad

6/3/2019 8:47:03 AM



#8

2-Chlorophenol

Concen: 5.262 ng

RT: 6.47 min Scan# 746

Delta R.T. -0.01 min

Lab File: BF114656.D

Acq: 30 May 2019 13:08

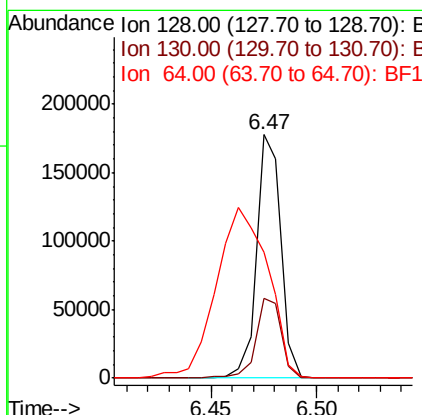
Tgt Ion: 128 Resp: 142828

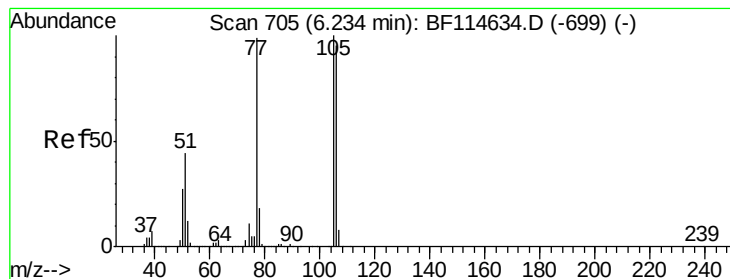
Ion Ratio Lower Upper

128 100

130 32.7 13.9 53.9

64 51.5 22.0 62.0





#9

Benzaldehyde

Concen: 7.296 ng

RT: 6.23 min Scan# 705

Delta R.T. 0.00 min

Lab File: BF114656.D

Acq: 30 May 2019 13:08

Instrument :

BNA_F

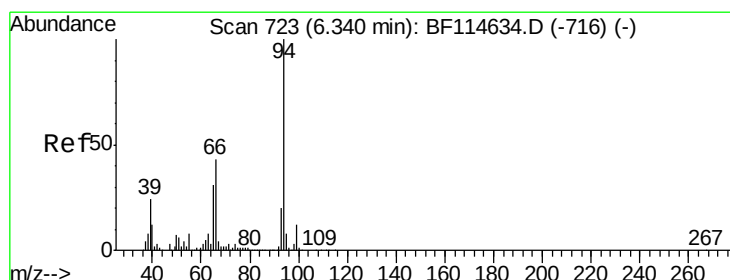
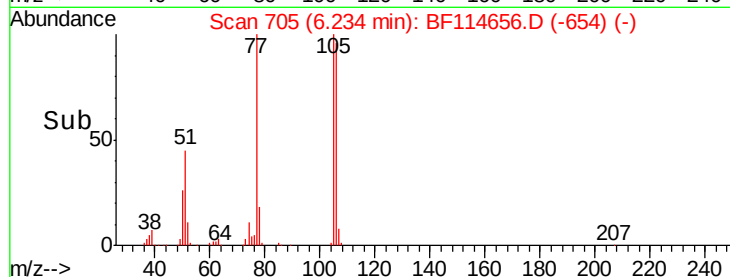
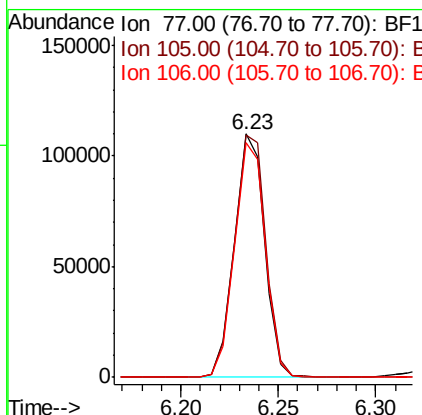
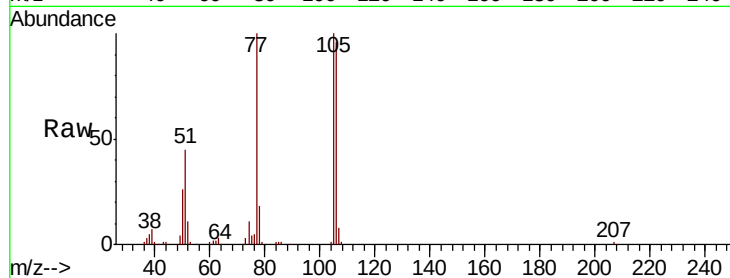
ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion:	77	Resp:	117912
Ion Ratio	Lower	Upper	
77	100		
105	99.5	80.8	120.8
106	96.3	76.2	116.2

Manual Integrations
APPROVED

mohammad
6/3/2019 8:47:03 AM



#10

Phenol

Concen: 5.268 ng

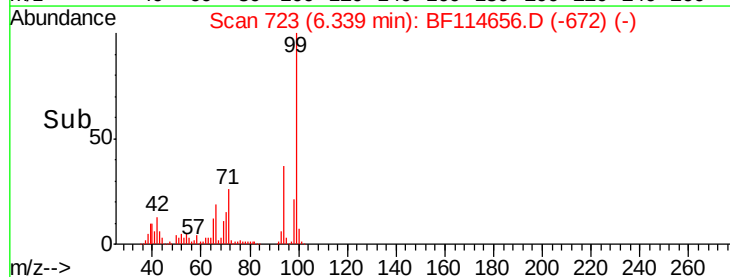
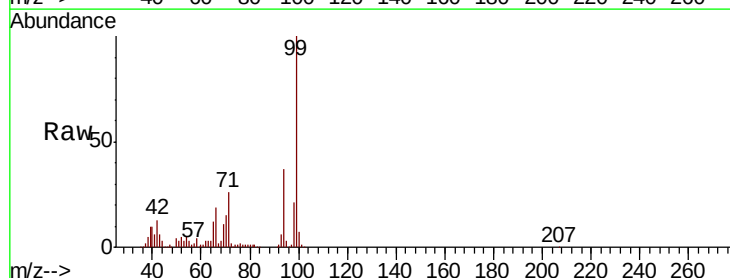
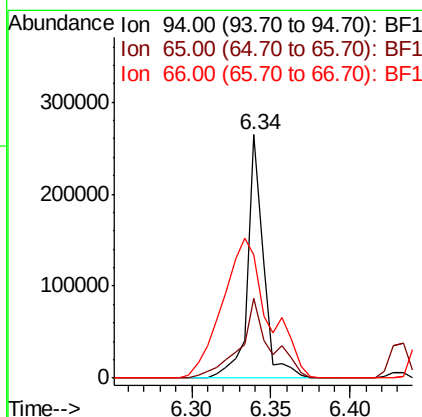
RT: 6.34 min Scan# 723

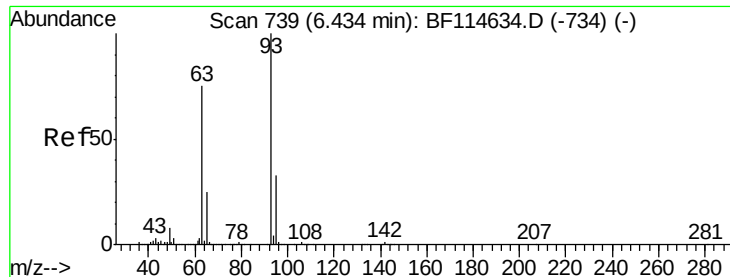
Delta R.T. -0.00 min

Lab File: BF114656.D

Acq: 30 May 2019 13:08

Tgt Ion:	94	Resp:	180252
Ion Ratio	Lower	Upper	
94	100		
65	32.7	11.0	51.0
66	50.5	23.0	63.0





#11

bis(2-Chloroethyl)ether

Concen: 5.219 ng

RT: 6.43 min Scan# 739

Delta R.T. -0.00 min

Lab File: BF114656.D

Acq: 30 May 2019 13:08

Instrument :

BNA_F

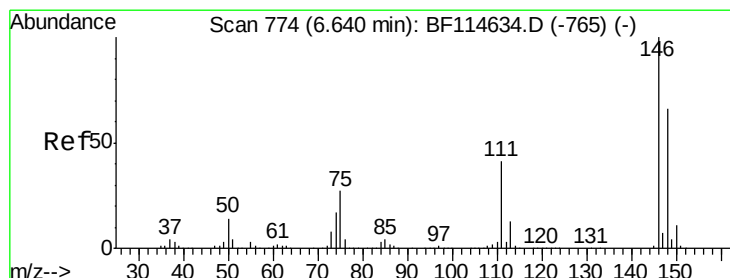
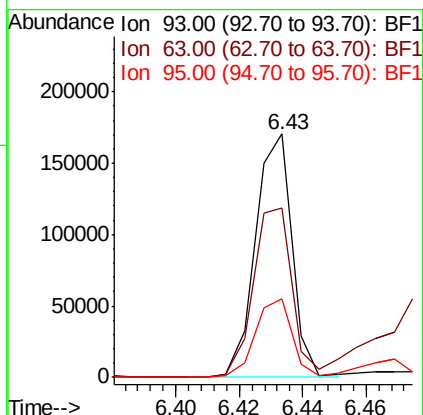
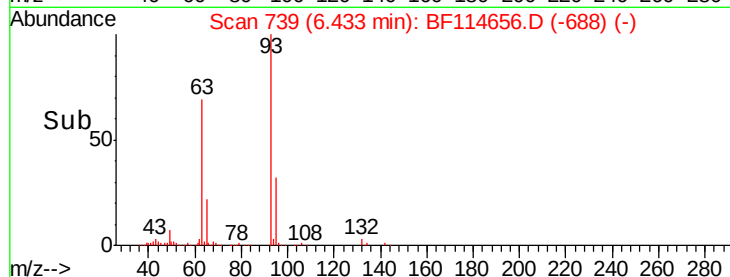
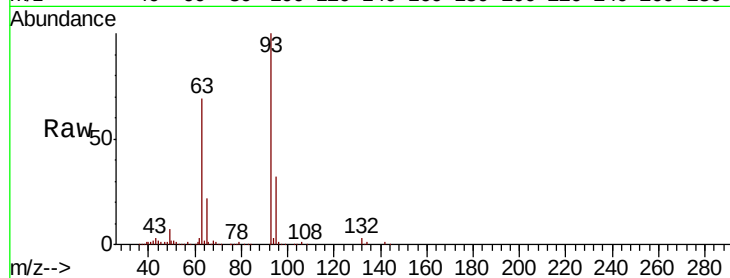
ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion:	93	Resp:	136599
Ion Ratio	Lower	Upper	
93	100		
63	69.4	55.0	95.0
95	32.4	13.5	53.5

Manual Integrations
APPROVED

mohammad
6/3/2019 8:47:03 AM



#12

1,3-Dichlorobenzene

Concen: 5.333 ng

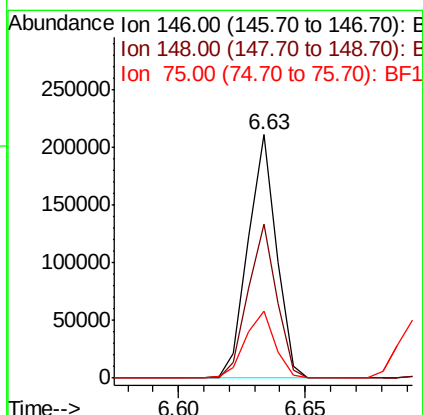
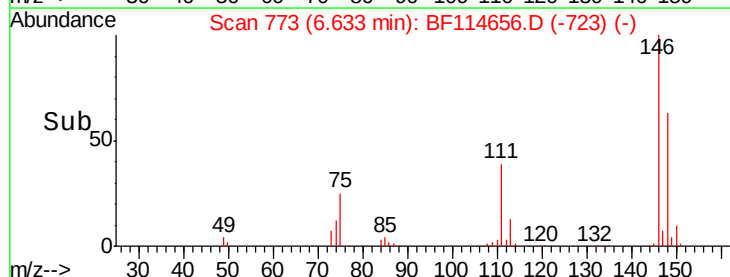
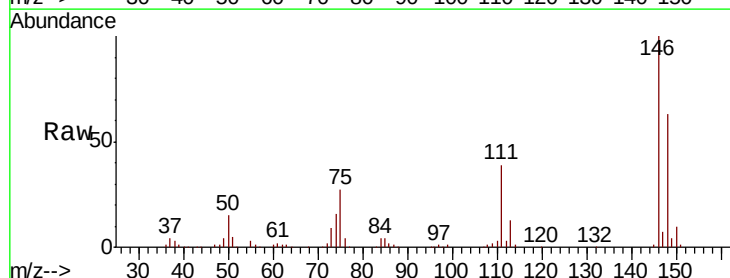
RT: 6.63 min Scan# 773

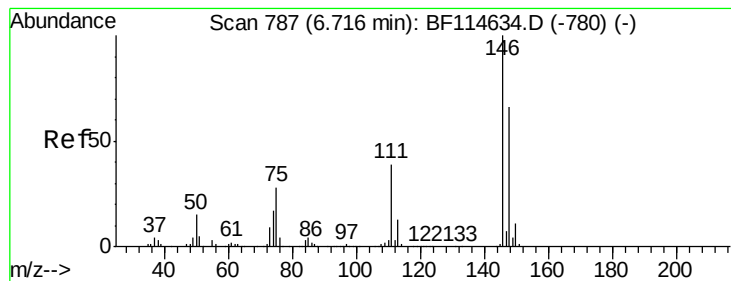
Delta R.T. -0.01 min

Lab File: BF114656.D

Acq: 30 May 2019 13:08

Tgt Ion:	146	Resp:	164938
Ion Ratio	Lower	Upper	
146	100		
148	63.3	52.9	79.3
75	27.4	22.0	33.0





#13

1,4-Dichlorobenzene

Concen: 5.406 ng

RT: 6.71 min Scan# 786

Delta R.T. -0.01 min

Lab File: BF114656.D

Acq: 30 May 2019 13:08

Instrument :

BNA_F

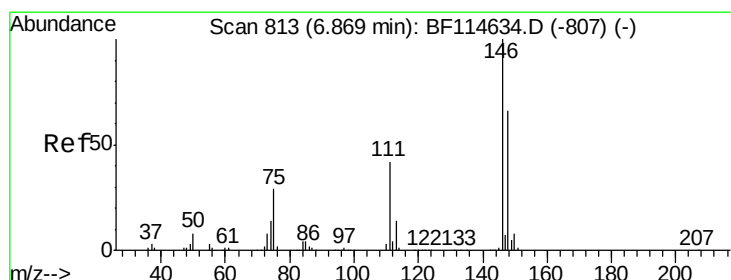
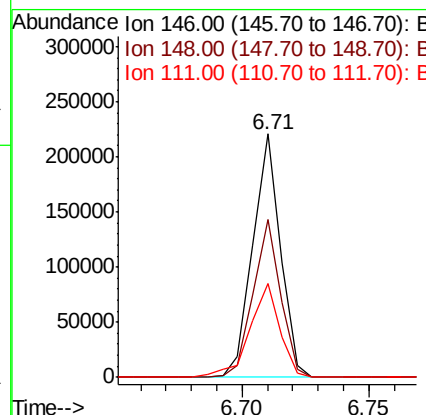
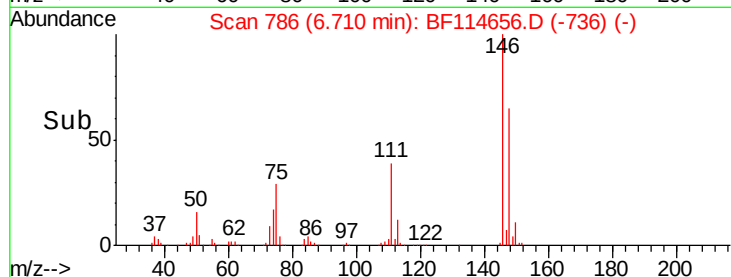
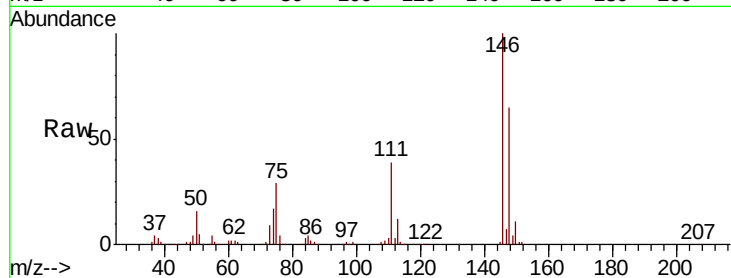
ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion:	146	Resp:	167729
Ion Ratio	Lower	Upper	
146	100		
148	64.8	52.5	78.7
111	38.6	31.4	47.2

Manual Integrations
APPROVED

mohammad
6/3/2019 8:47:03 AM



#14

1,2-Dichlorobenzene

Concen: 5.532 ng

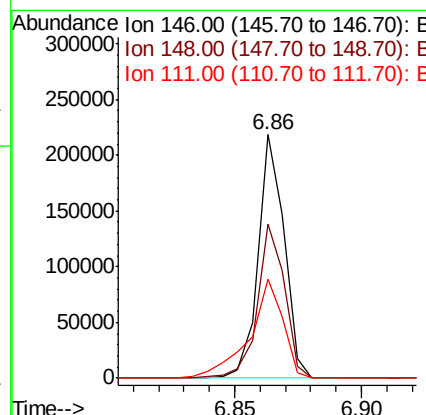
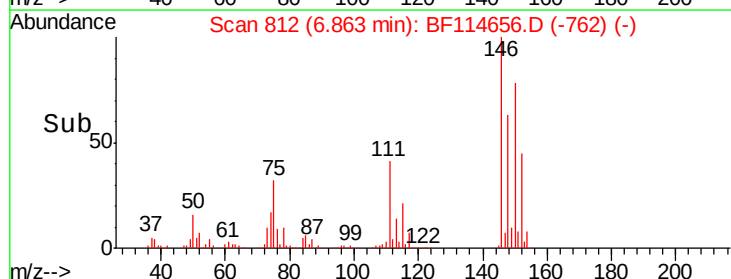
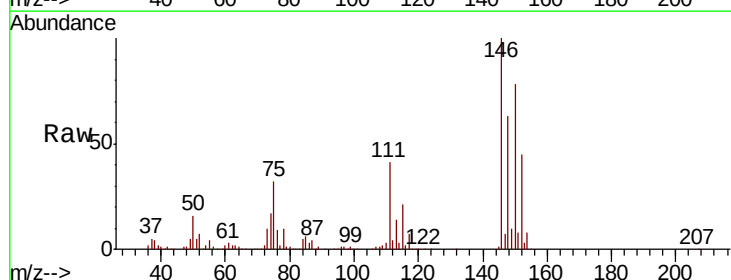
RT: 6.86 min Scan# 812

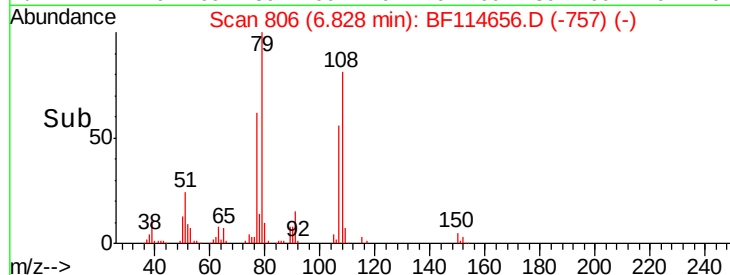
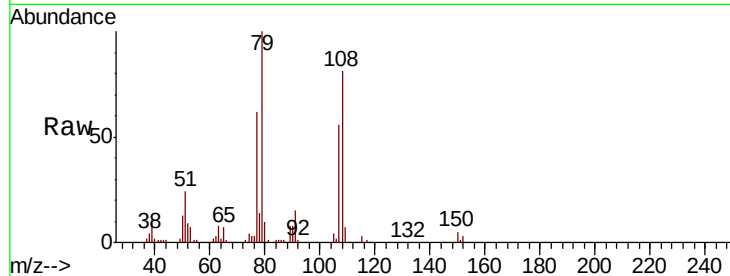
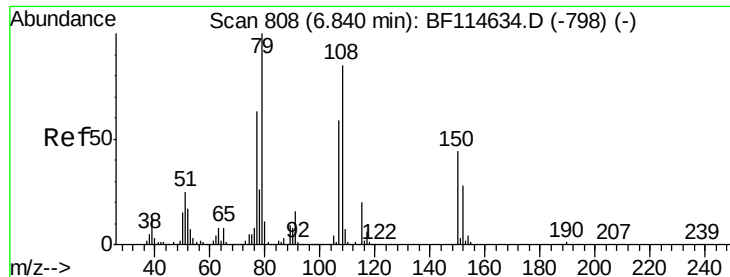
Delta R.T. -0.01 min

Lab File: BF114656.D

Acq: 30 May 2019 13:08

Tgt Ion:	146	Resp:	156248
Ion Ratio	Lower	Upper	
146	100		
148	63.2	52.6	79.0
111	40.8	34.1	51.1





#15

Benzyl Alcohol

Concen: 5.129 ng/mL

RT: 6.83 min Scan# 806

Delta R.T. -0.01 min

Lab File: BF114656.D

Acq: 30 May 2019 13:08

Tot Ion:	79	Resp:	114281
Ion Ratio	Lower	Upper	
79	100		
108	81.4	67.8	101.8
77	62.0	50.7	76.1

Instrument :

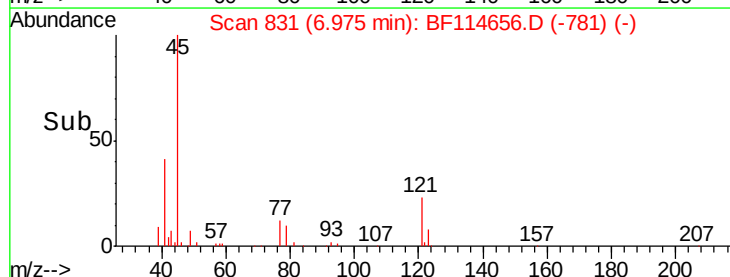
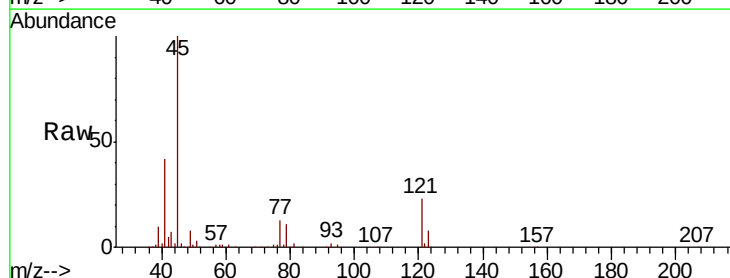
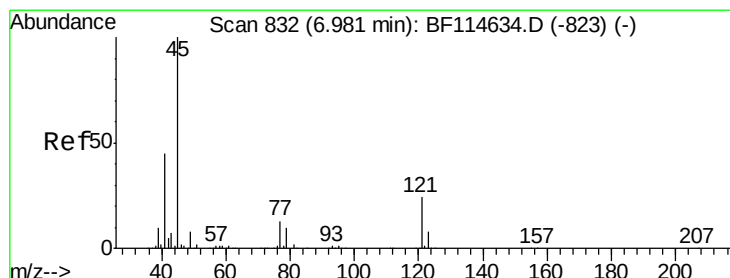
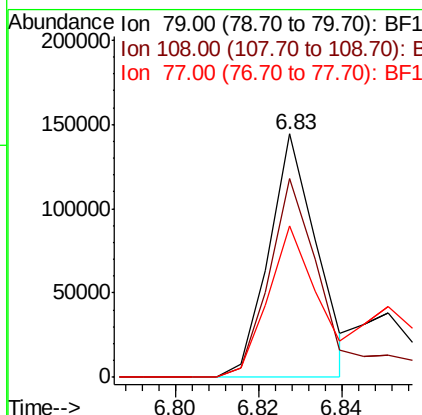
BNA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Manual Integrations
APPROVED

mohammad
6/3/2019 8:47:03 AM



#16

2,2'-oxybis(1-Chloropropane)

Concen: 4.903 ng/mL

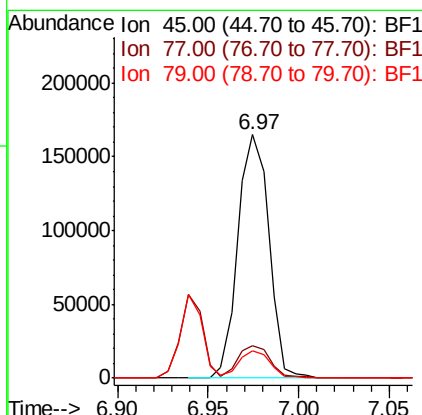
RT: 6.97 min Scan# 831

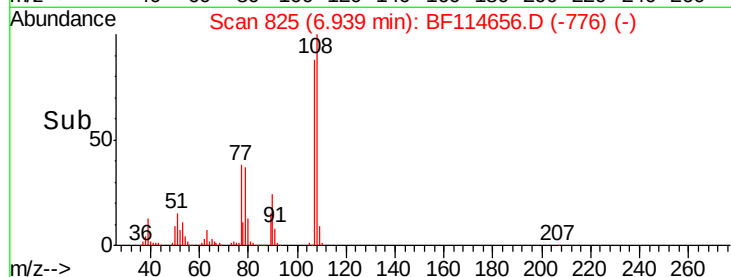
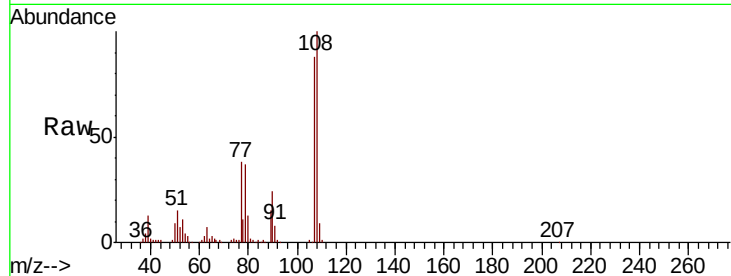
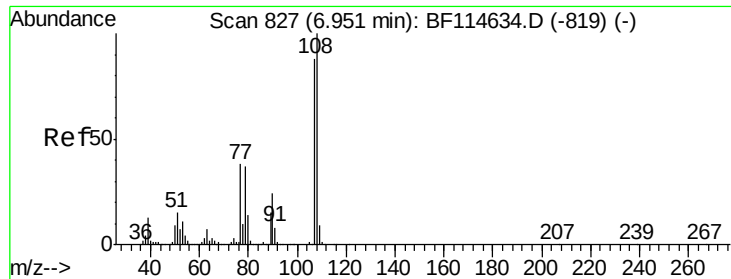
Delta R.T. -0.01 min

Lab File: BF114656.D

Acq: 30 May 2019 13:08

Tgt Ion:	45	Resp:	196813
Ion Ratio	Lower	Upper	
45	100		
77	13.5	0.0	34.7
79	11.2	0.0	31.3





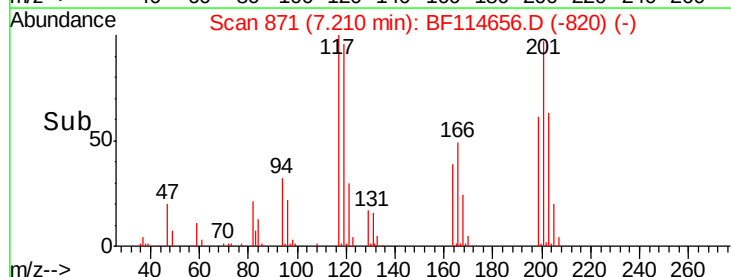
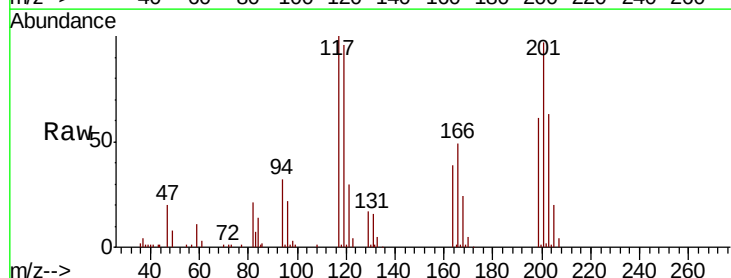
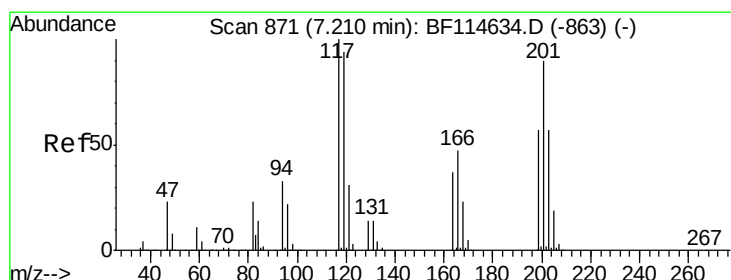
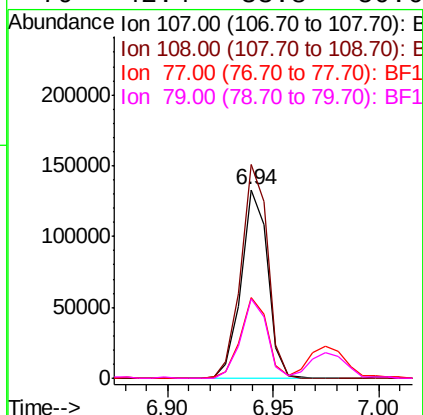
#17
2-Methylphenol
Concen: 5.034 ng
RT: 6.94 min Scan# 825
Delta R.T. -0.01 min
Lab File: BF114656.D
Acq: 30 May 2019 13:08

Tot Ion	Ratio	Resp	Lower	Upper
107	100			
108	113.3	91.1	136.7	
77	42.7	34.9	52.3	
79	42.4	33.8	50.6	

Instrument :
BNA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

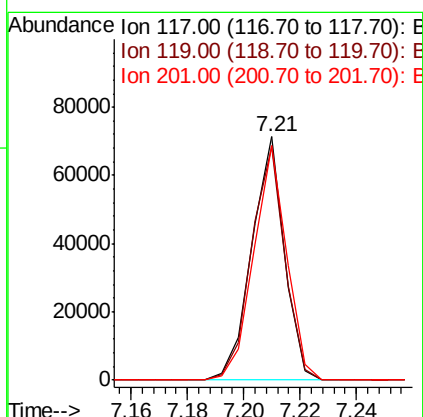
Manual Integrations
APPROVED

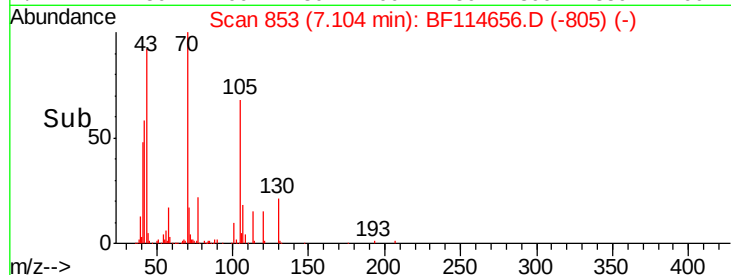
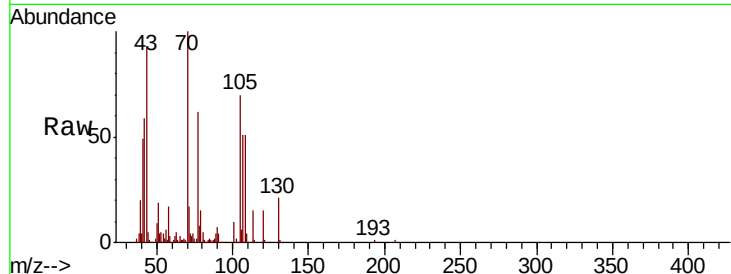
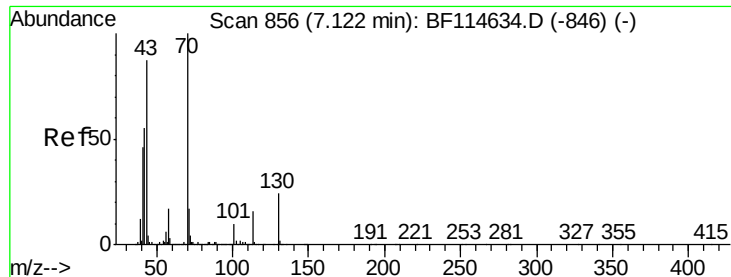
mohammad
6/3/2019 8:47:03 AM



#18
Hexachloroethane
Concen: 4.859 ng
RT: 7.21 min Scan# 871
Delta R.T. -0.00 min
Lab File: BF114656.D
Acq: 30 May 2019 13:08

Tgt Ion	Ratio	Resp	Lower	Upper
117	100			
119	95.8	75.6	113.4	
201	96.6	71.7	107.5	





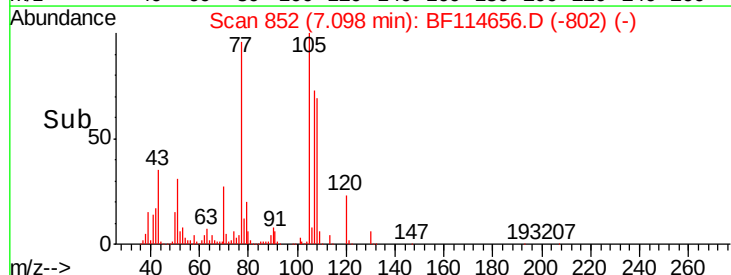
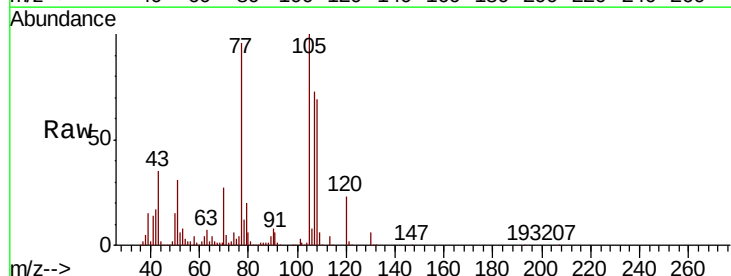
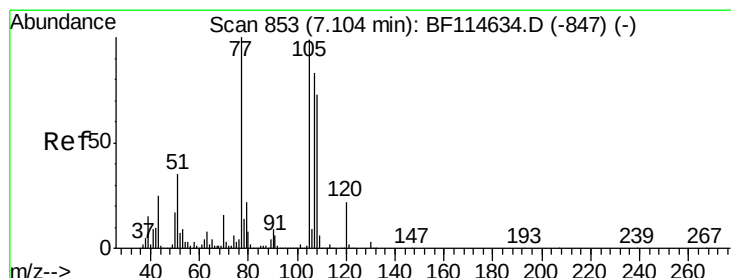
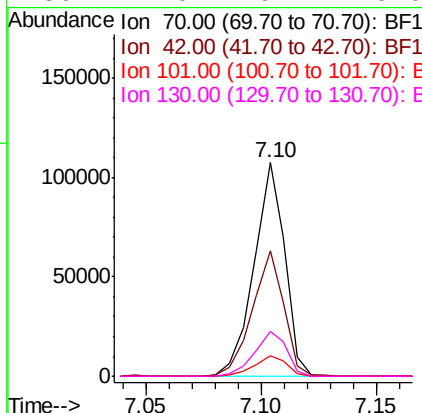
#19
n-Nitroso-di-n-propylamine
Concen: 5.109 ng
RT: 7.10 min Scan# 853
Delta R.T. -0.02 min
Lab File: BF114656.D
Acq: 30 May 2019 13:08

Instrument :
BNA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ion	Ratio	Resp	Lower	Upper
70	100				
42	58.7	44.4	66.6		
101	9.8	8.2	12.4		
130	21.0	19.4	29.0		

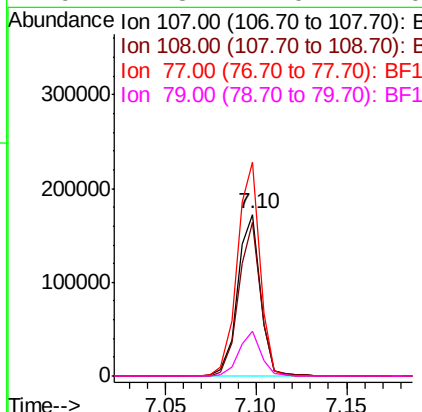
Manual Integrations
APPROVED

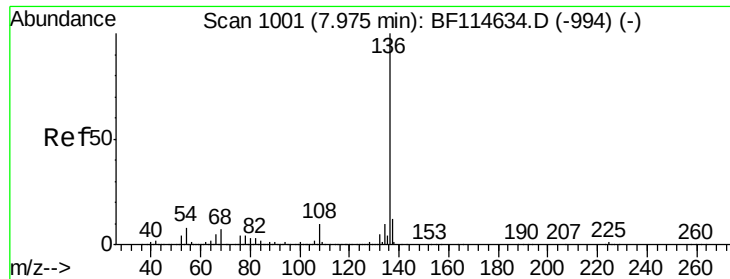
mohammad
6/3/2019 8:47:03 AM



#20
3+4-Methylphenols
Concen: 5.563 ng
RT: 7.10 min Scan# 852
Delta R.T. -0.01 min
Lab File: BF114656.D
Acq: 30 May 2019 13:08

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
107	100				
108	94.8	68.6	108.6		
77	131.9	100.5	140.5		
79	27.8	7.0	47.0		





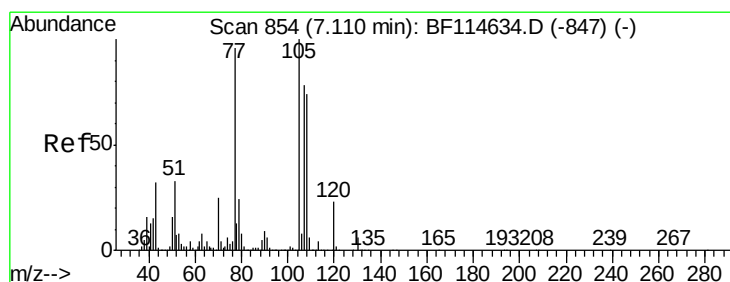
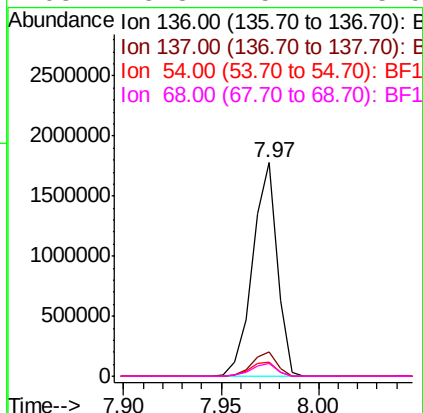
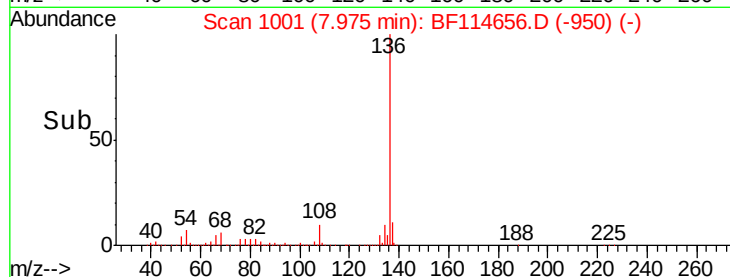
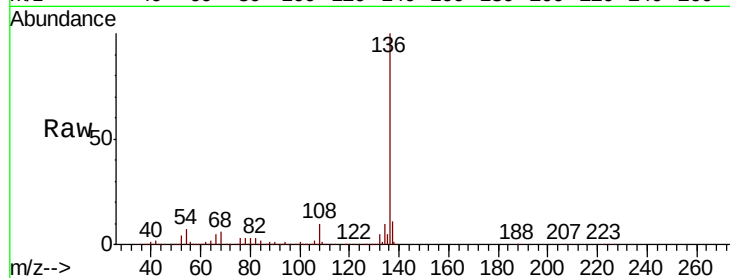
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 7.97 min Scan# 1001
Delta R.T. -0.00 min
Lab File: BF114656.D
Acq: 30 May 2019 13:08

Instrument :
BNA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ion	Ratio	Resp	Lower	Upper
136	100		1555639		
137	11.4	9.3	13.9		
54	6.8	6.3	9.5		
68	5.8	5.4	8.0		

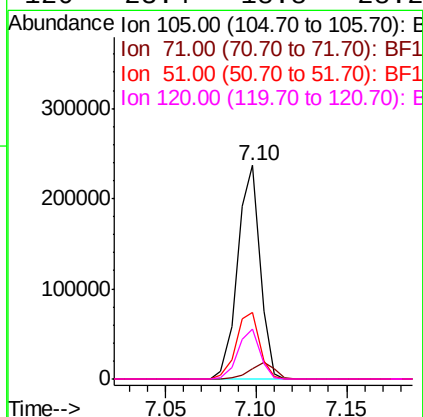
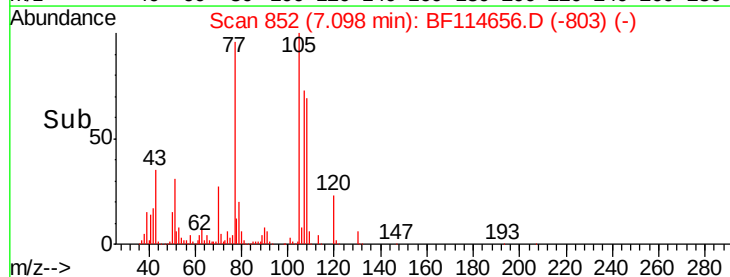
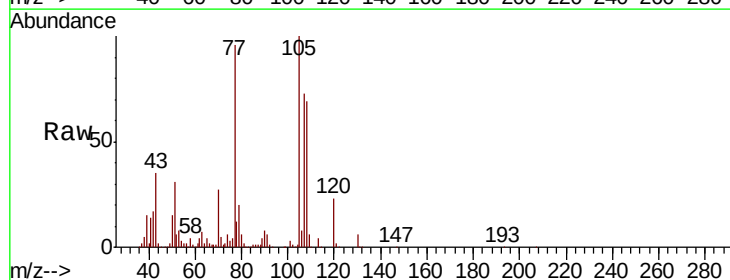
Manual Integrations
APPROVED

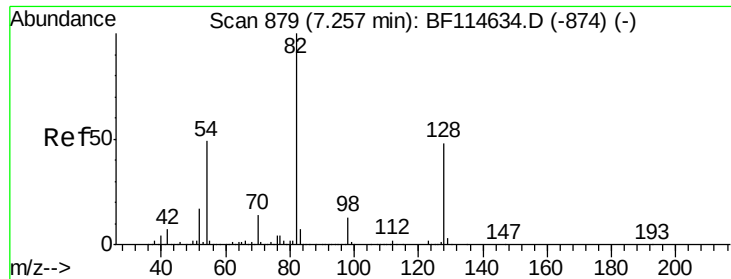
mohammad
6/3/2019 8:47:03 AM



#22
Acetophenone
Concen: 6.169 ng
RT: 7.10 min Scan# 852
Delta R.T. -0.01 min
Lab File: BF114656.D
Acq: 30 May 2019 13:08

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
105	100		204484		
71	4.6	3.6	5.4		
51	31.3	26.0	39.0		
120	23.4	18.8	28.2		





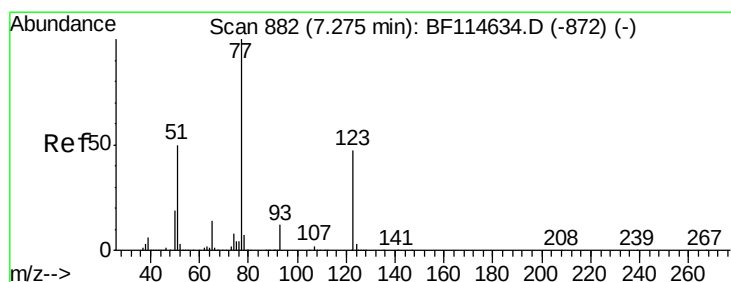
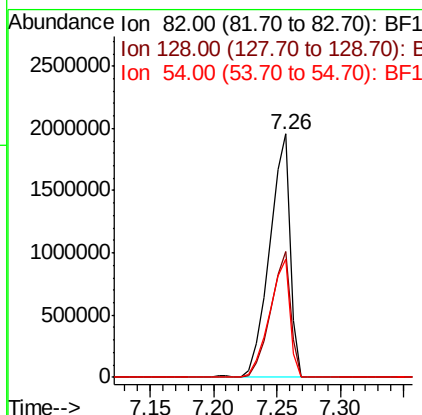
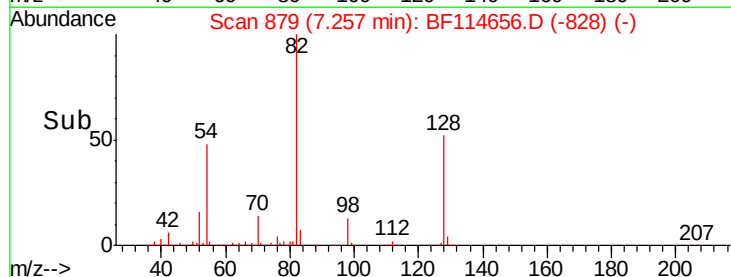
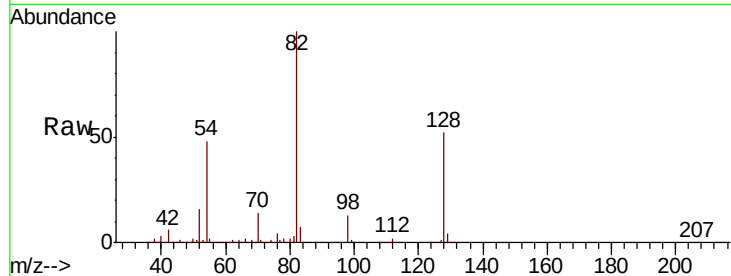
#23
 Nitrobenzene-d5
 Concen: 87.812 ng
 RT: 7.26 min Scan# 879
 Delta R.T. -0.00 min
 Lab File: BF114656.D
 Acq: 30 May 2019 13:08

Instrument :
 BNA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
82	100		
128	51.8	38.5	57.7
54	48.5	39.1	58.7

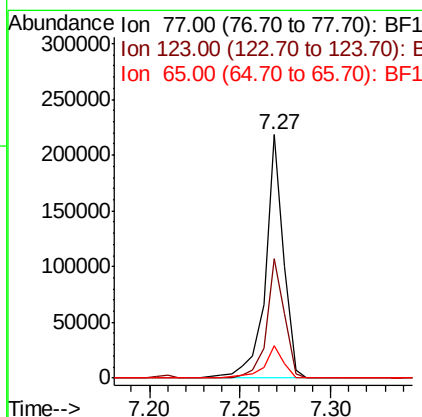
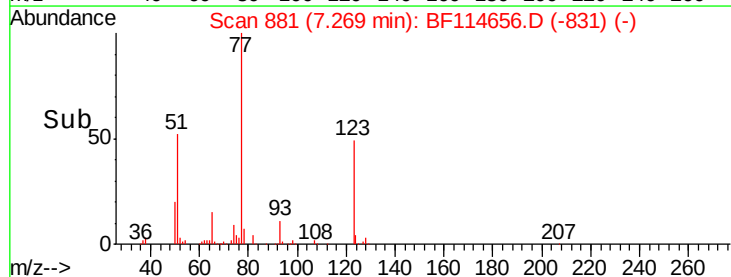
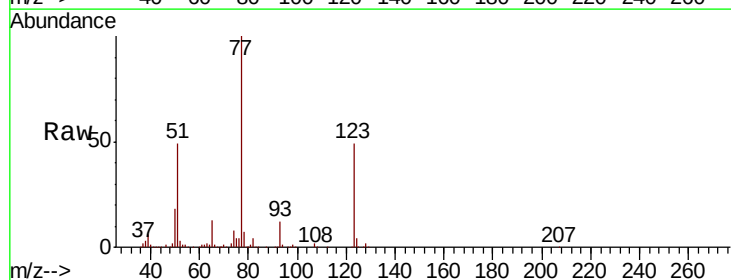
Manual Integrations
 APPROVED

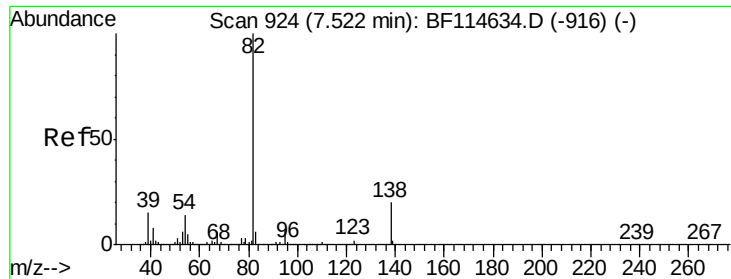
mohammad
 6/3/2019 8:47:03 AM



#24
 Nitrobenzene
 Concen: 5.729 ng
 RT: 7.27 min Scan# 881
 Delta R.T. -0.01 min
 Lab File: BF114656.D
 Acq: 30 May 2019 13:08

Tgt Ion	Ratio	Lower	Upper
77	100		
123	49.3	38.5	57.7
65	13.3	11.2	16.8





#25

Isophorone

Concen: 5.404 ng

RT: 7.51 min Scan# 922

Delta R.T. -0.01 min

Lab File: BF114656.D

Acq: 30 May 2019 13:08

Instrument :

BNA_F

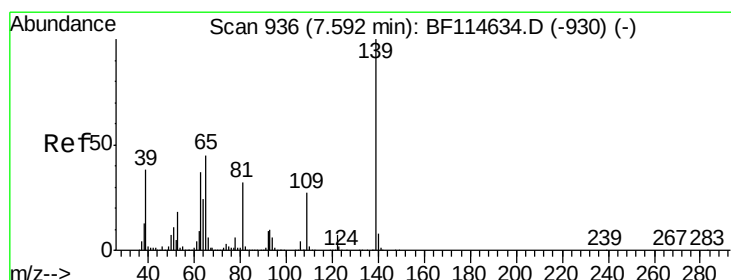
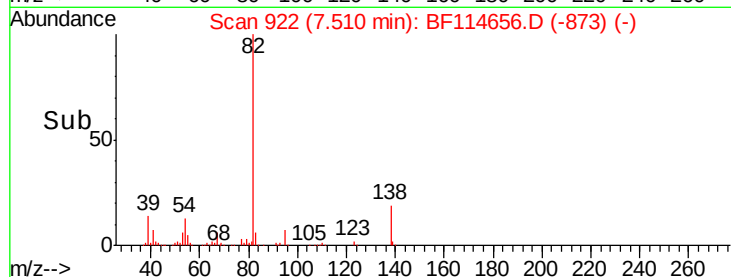
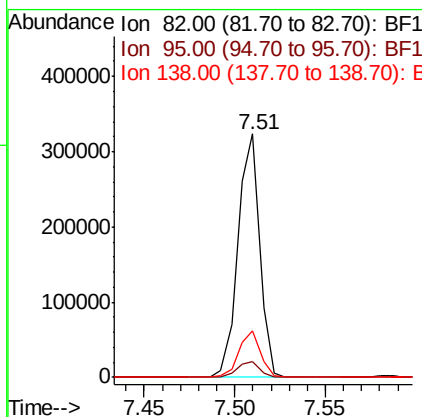
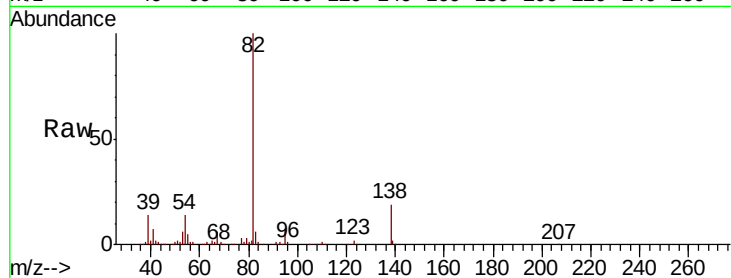
ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion	82	Resp	270441
Ion Ratio	Lower	Upper	
82	100		
95	6.6	5.6	8.4
138	19.1	15.9	23.9

Manual Integrations
APPROVED

mohammad
6/3/2019 8:47:03 AM



#26

2-Nitrophenol

Concen: 4.790 ng

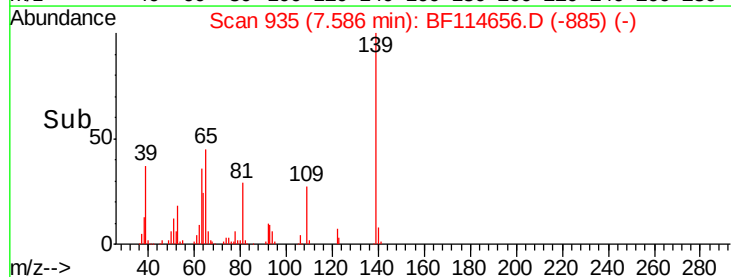
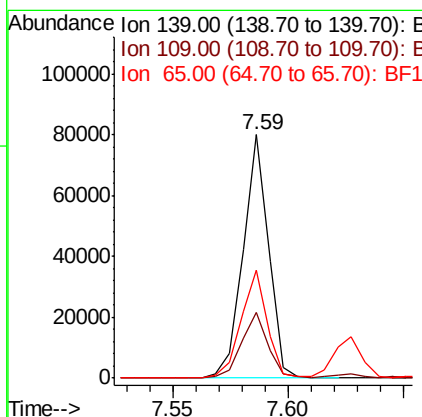
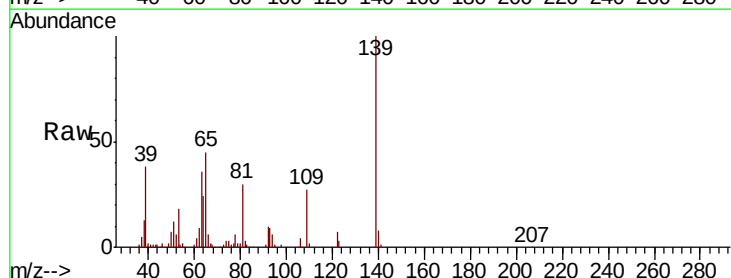
RT: 7.59 min Scan# 935

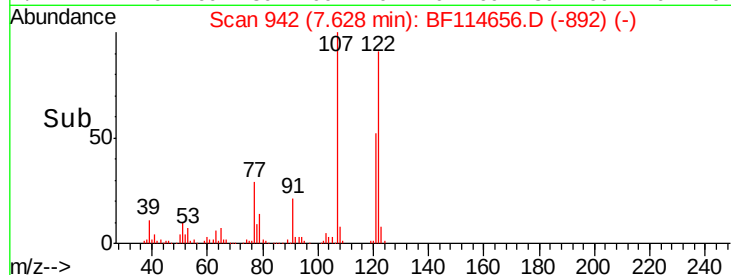
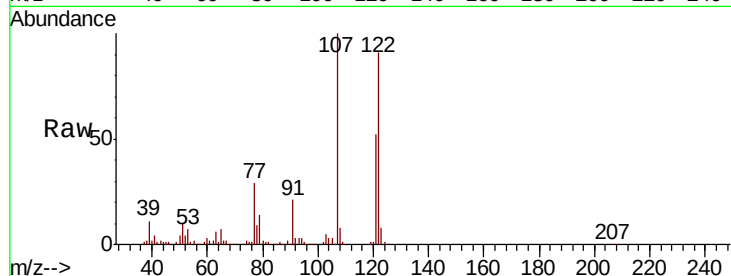
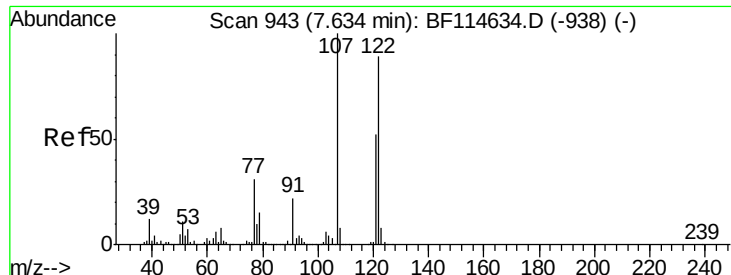
Delta R.T. -0.01 min

Lab File: BF114656.D

Acq: 30 May 2019 13:08

Tgt Ion	139	Resp	61751
Ion Ratio	Lower	Upper	
139	100		
109	26.9	21.7	32.5
65	44.6	36.3	54.5





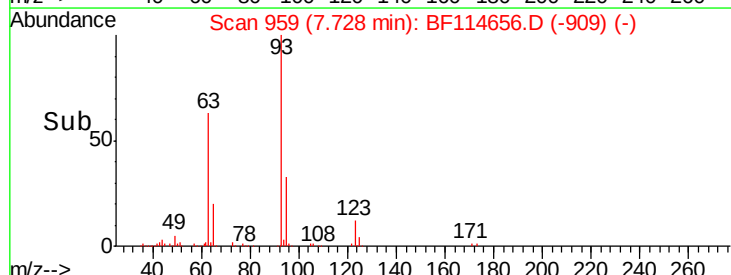
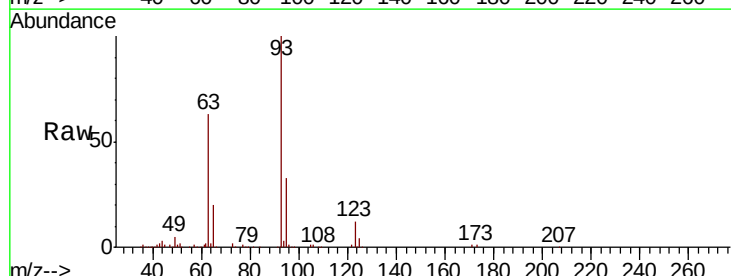
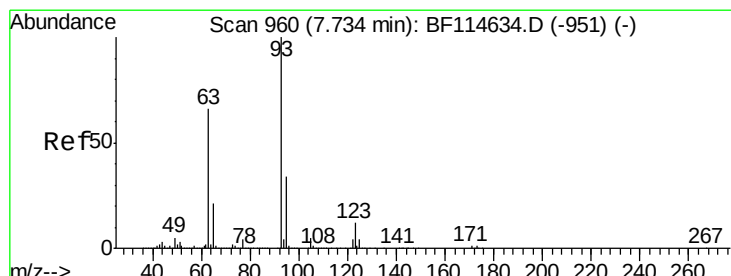
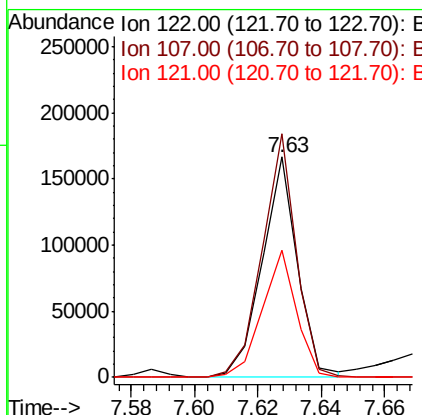
#27
2,4-Dimethylphenol
Concen: 6.009 ng
RT: 7.63 min Scan# 942
Delta R.T. -0.01 min
Lab File: BF114656.D
Acq: 30 May 2019 13:08

Tot Ion	Ratio	Resp	Lower	Upper
122	100			
107	110.4	89.3	133.9	
121	57.5	46.8	70.2	

Instrument :
BNA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

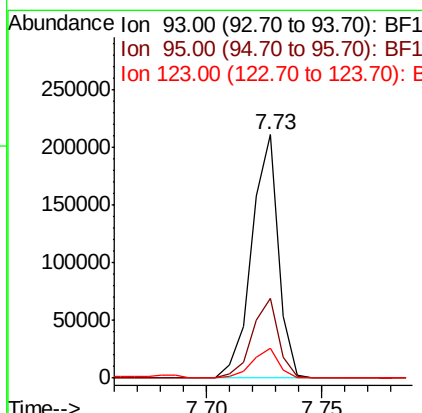
Manual Integrations
APPROVED

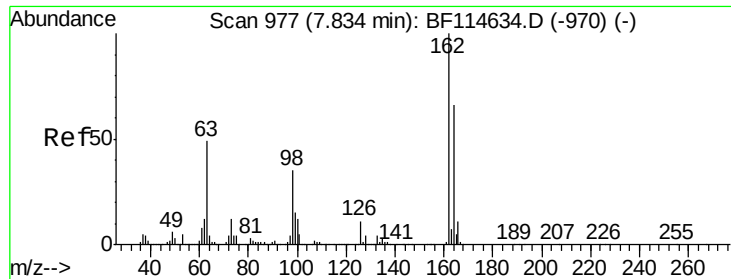
mohammad
6/3/2019 8:47:03 AM



#28
bis(2-Chloroethoxy)methane
Concen: 5.348 ng
RT: 7.73 min Scan# 959
Delta R.T. -0.01 min
Lab File: BF114656.D
Acq: 30 May 2019 13:08

Tgt Ion	Ratio	Resp	Lower	Upper
93	100			
95	32.6	27.0	40.4	
123	12.5	10.2	15.2	





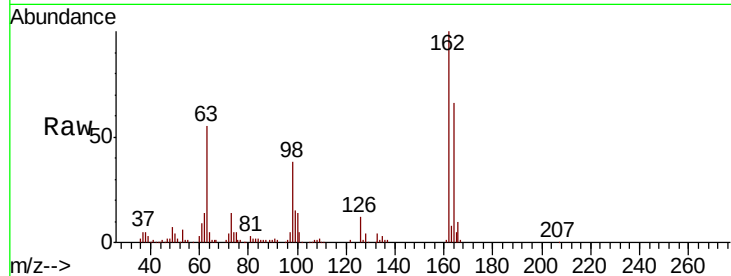
#29
2,4-Dichlorophenol
Concen: 5.457 ng
RT: 7.82 min Scan# 975
Delta R.T. -0.01 min
Lab File: BF114656.D
Acq: 30 May 2019 13:08

Instrument :
BNA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Resp	Lower	Upper
162	100	119094		
164	65.8	45.8	85.8	
98	38.2	14.9	54.9	

Manual Integrations
APPROVED

mohammad
6/3/2019 8:47:03 AM

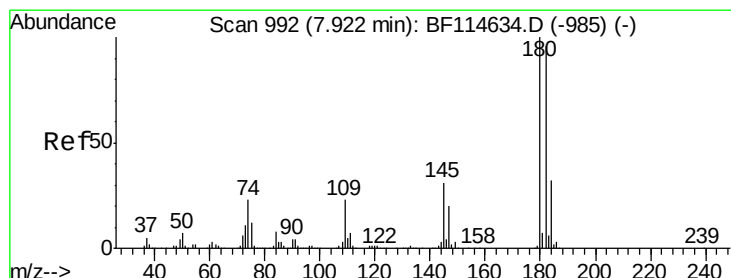
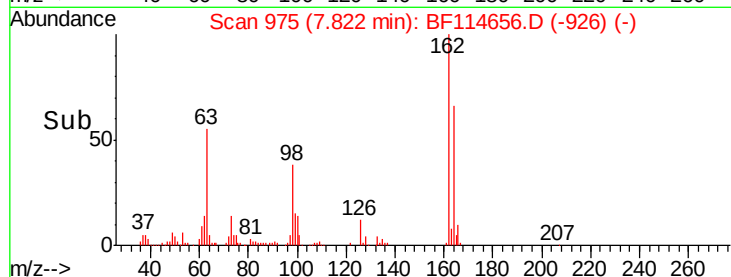
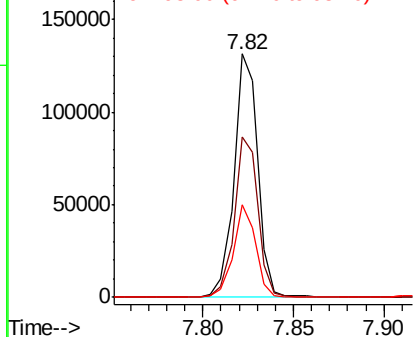


Abundance

Ion 162.00 (161.70 to 162.70): E

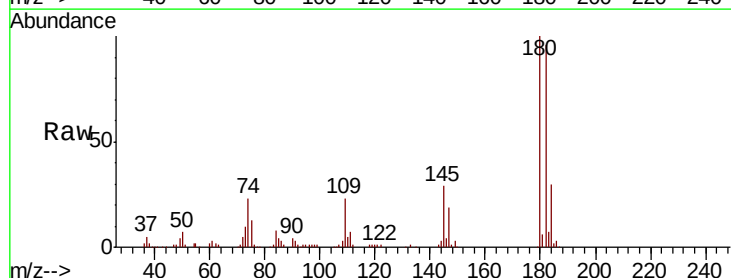
Ion 164.00 (163.70 to 164.70): E

Ion 98.00 (97.70 to 98.70): BF1



#30
1,2,4-Trichlorobenzene
Concen: 5.633 ng
RT: 7.92 min Scan# 991
Delta R.T. -0.01 min
Lab File: BF114656.D
Acq: 30 May 2019 13:08

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	140078		
182	96.1	76.9	115.3	
145	29.3	24.5	36.7	

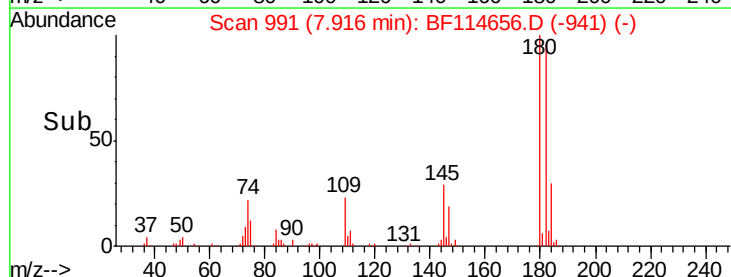
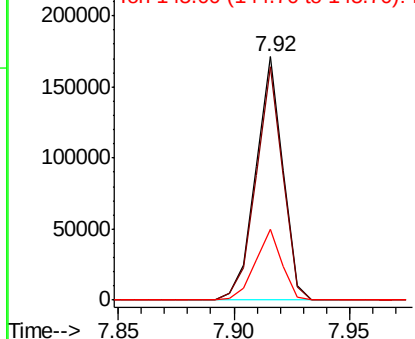


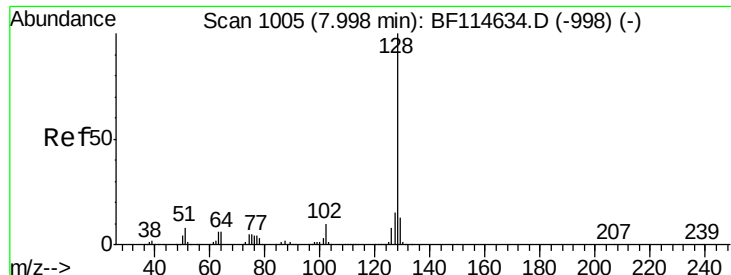
Abundance

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





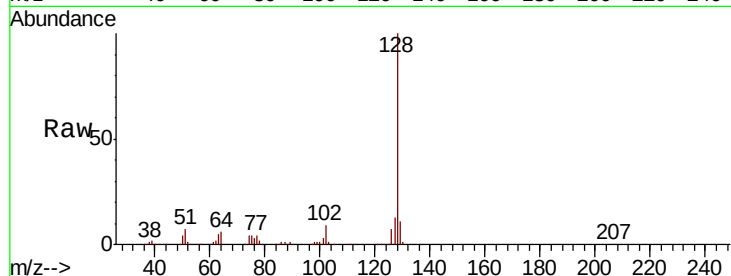
#31
Naphthalene
Concen: 6.200 ng
RT: 7.99 min Scan# 1004
Delta R.T. -0.01 min
Lab File: BF114656.D
Acq: 30 May 2019 13:08

Instrument :
BNA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
128	100		
129	11.4	10.2	15.2
127	12.9	11.9	17.9

Manual Integrations
APPROVED

mohammad
6/3/2019 8:47:03 AM

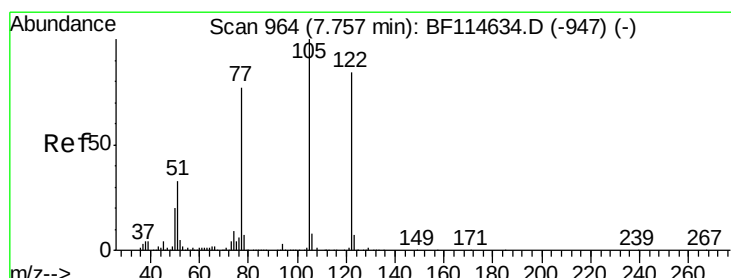
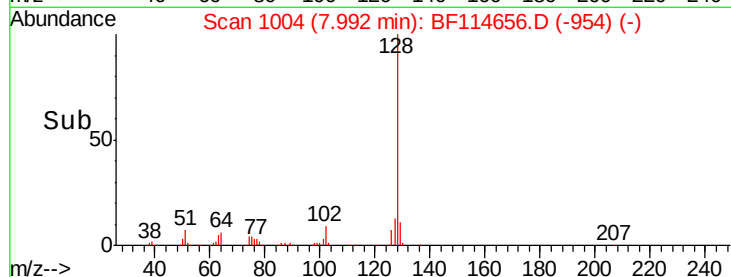
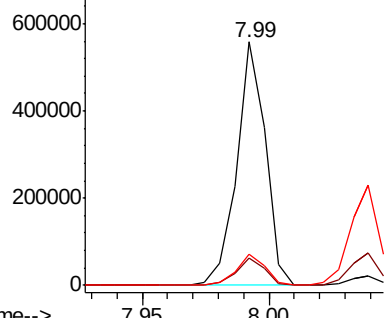


Abundance

Ion 128.00 (127.70 to 128.70): E

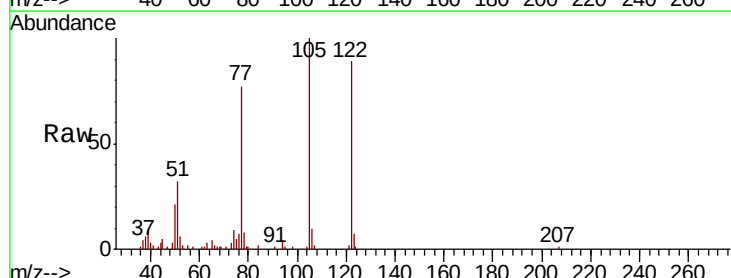
Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#32
Benzoic acid
Concen: 3.497 ng
RT: 7.68 min Scan# 951
Delta R.T. -0.08 min
Lab File: BF114656.D
Acq: 30 May 2019 13:08

Tgt Ion	Ratio	Lower	Upper
122	100		
105	112.6	98.3	138.3
77	87.0	70.7	110.7

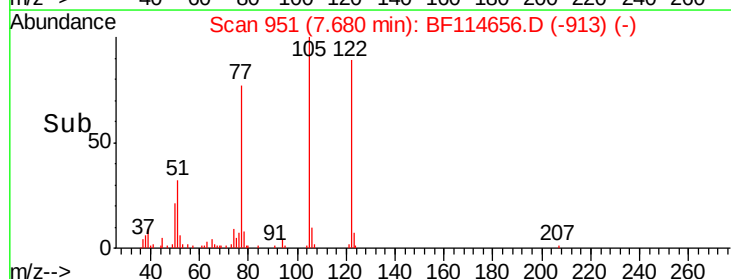
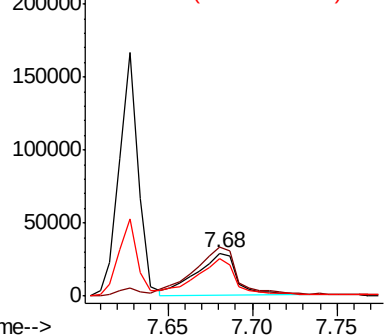


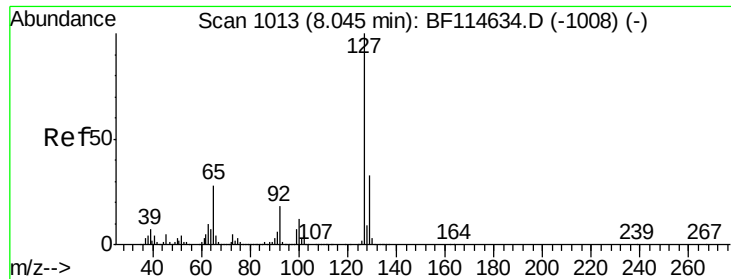
Abundance

Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF1





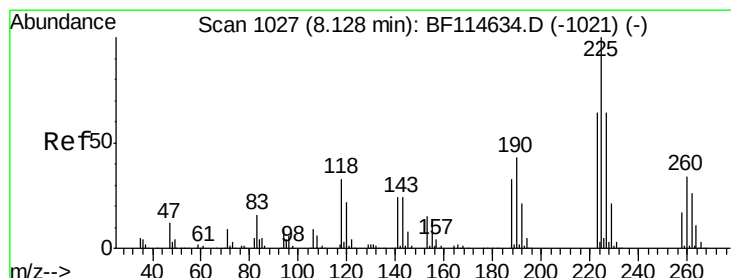
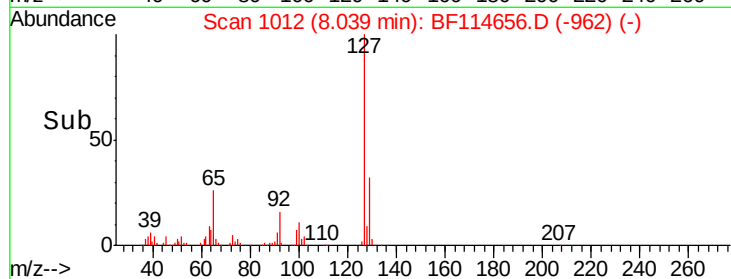
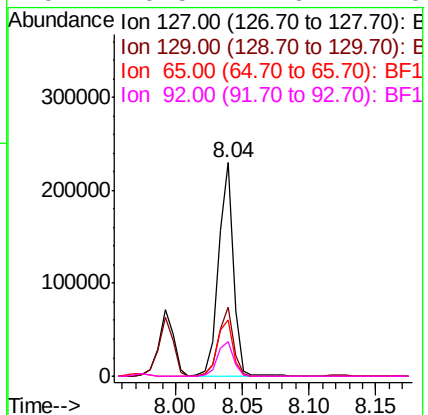
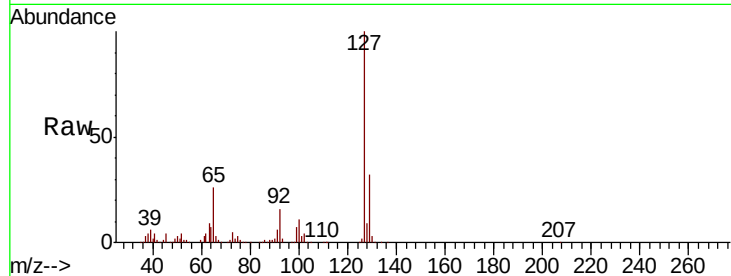
#33
4-Chloroaniline
Concen: 5.318 ng
RT: 8.04 min Scan# 1012
Delta R.T. -0.01 min
Lab File: BF114656.D
Acq: 30 May 2019 13:08

Instrument :
BNA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ion	Ratio	Resp	Lower	Upper
127	100		181535		
129	32.2	26.7	40.1		
65	26.5	22.5	33.7		
92	16.5	14.6	22.0		

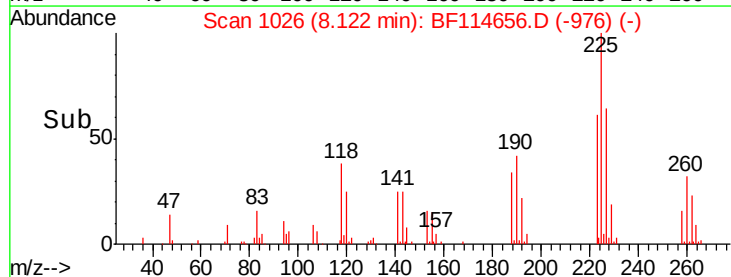
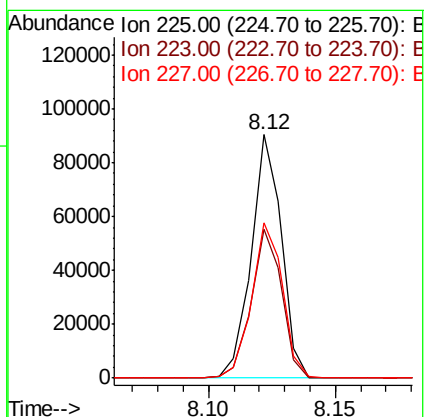
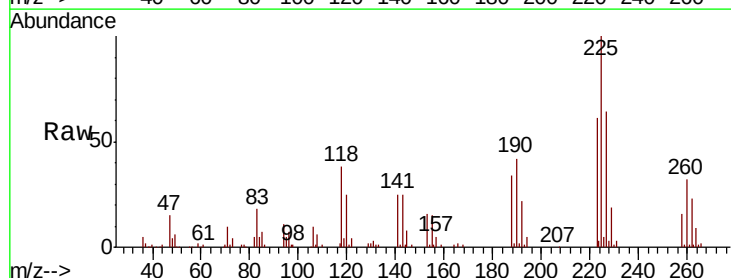
Manual Integrations
APPROVED

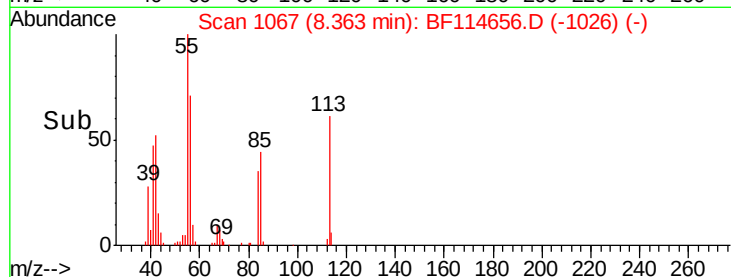
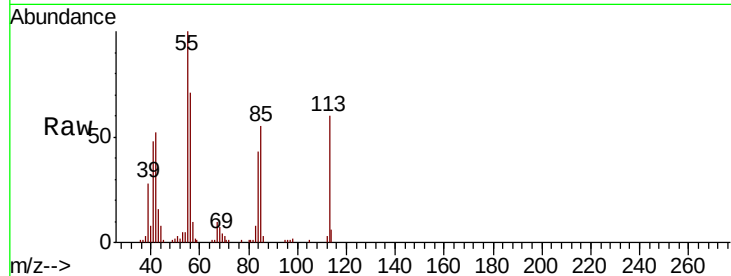
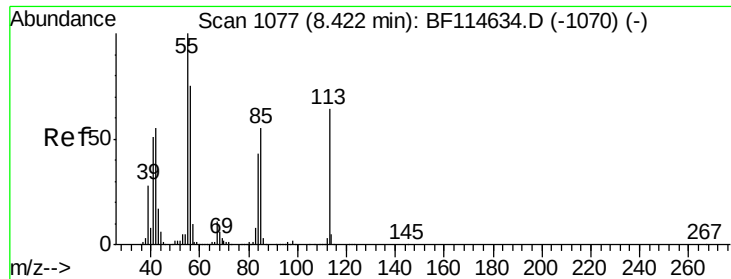
mohammad
6/3/2019 8:47:03 AM



#34
Hexachlorobutadiene
Concen: 5.411 ng
RT: 8.12 min Scan# 1026
Delta R.T. -0.01 min
Lab File: BF114656.D
Acq: 30 May 2019 13:08

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
225	100		74749		
223	61.2	50.9	76.3		
227	63.8	51.3	76.9		





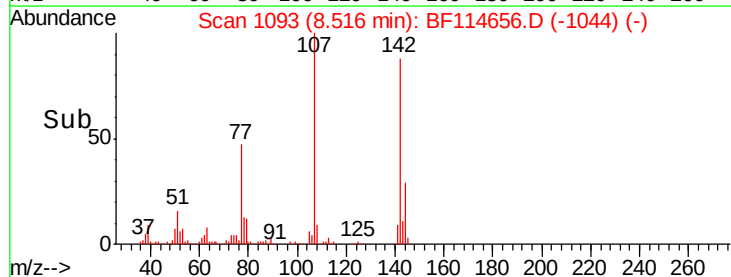
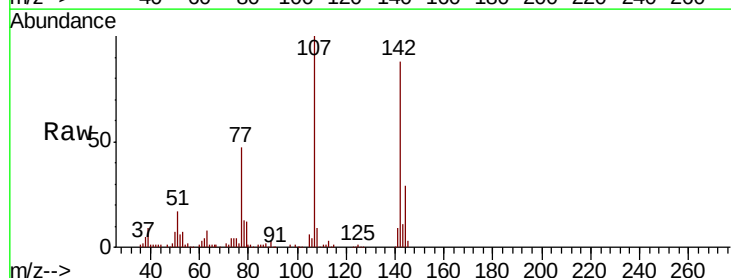
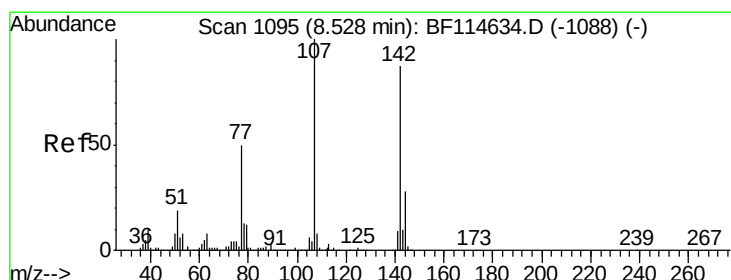
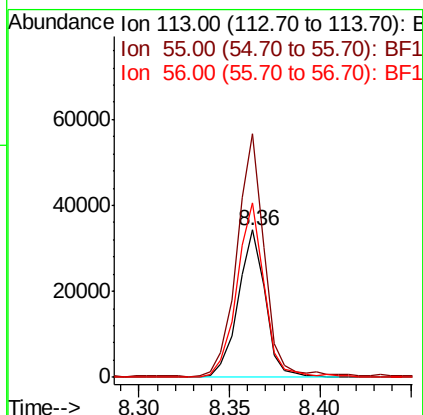
#35
Caprolactam
Concen: 4.845 ng
RT: 8.36 min Scan# 1067
Delta R.T. -0.06 min
Lab File: BF114656.D
Acq: 30 May 2019 13:08

Tot Ion	Ratio	Lower	Upper
113	100		
55	165.5	136.4	176.4
56	118.3	97.0	137.0

Instrument :
BNA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

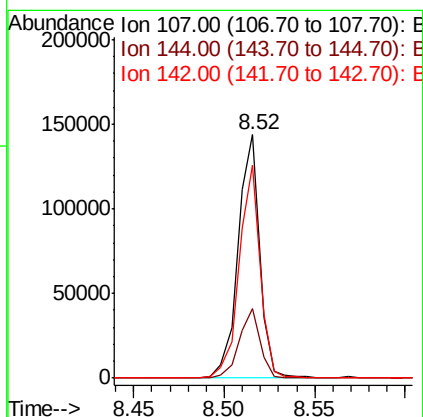
Manual Integrations
APPROVED

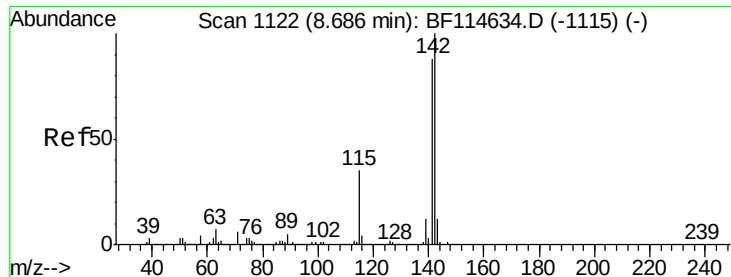
mohammad
6/3/2019 8:47:03 AM



#36
4-Chloro-3-methylphenol
Concen: 5.469 ng
RT: 8.52 min Scan# 1093
Delta R.T. -0.01 min
Lab File: BF114656.D
Acq: 30 May 2019 13:08

Tgt Ion	Ratio	Lower	Upper
107	100		
144	28.7	22.5	33.7
142	87.7	69.8	104.6





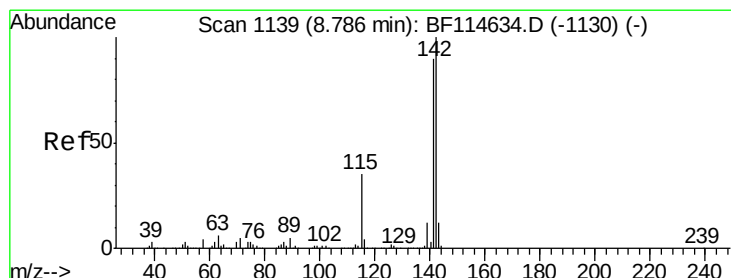
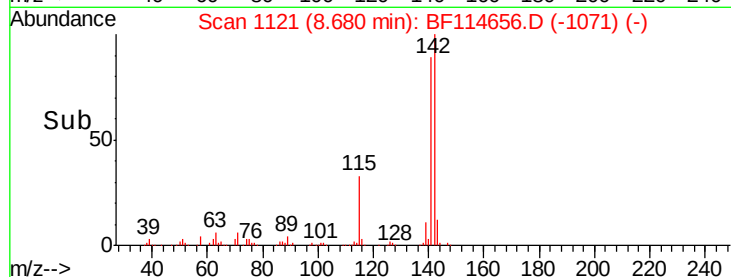
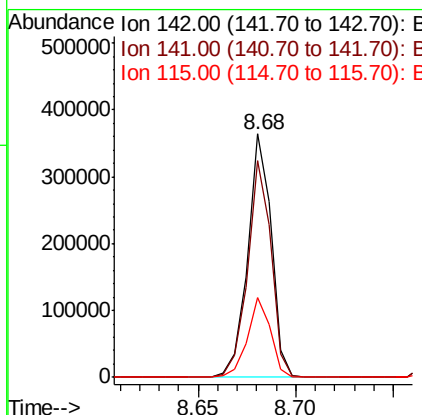
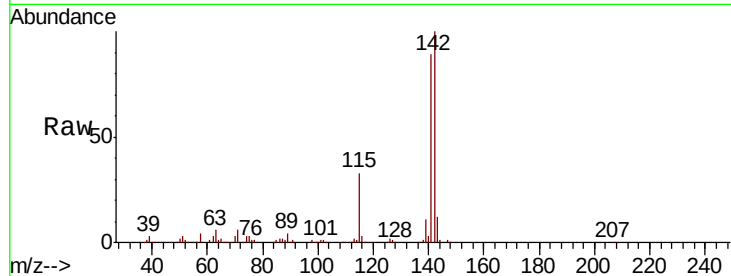
#37
2-Methylnaphthalene
Concen: 6.398 ng
RT: 8.68 min Scan# 1121
Delta R.T. -0.01 min
Lab File: BF114656.D
Acq: 30 May 2019 13:08

Instrument :
BNA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
142	100		
141	89.2	70.3	105.5
115	32.5	28.0	42.0

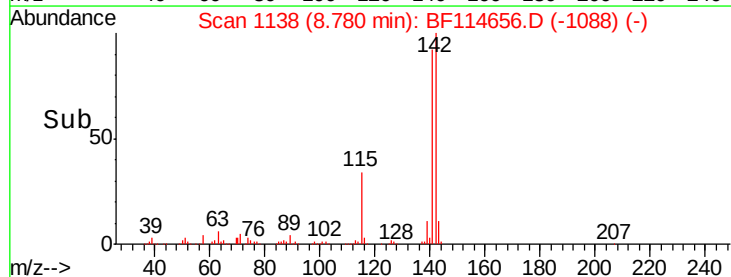
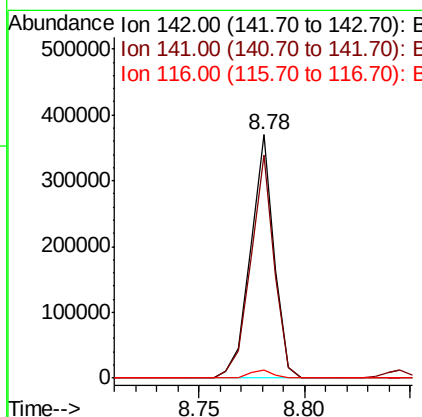
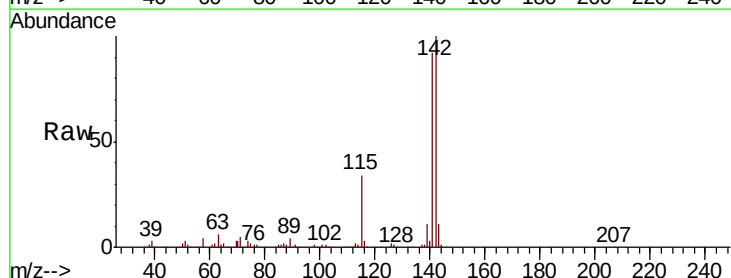
Manual Integrations
APPROVED

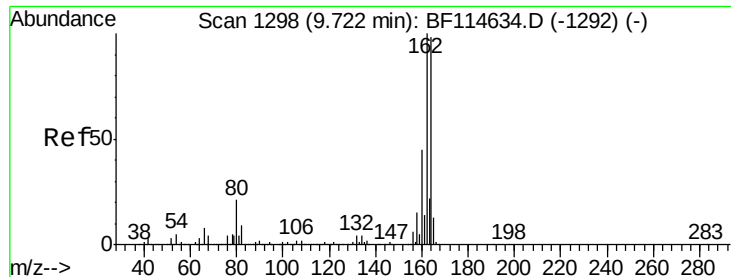
mohammad
6/3/2019 8:47:03 AM



#38
1-Methylnaphthalene
Concen: 6.366 ng
RT: 8.78 min Scan# 1138
Delta R.T. -0.01 min
Lab File: BF114656.D
Acq: 30 May 2019 13:08

Tgt Ion	Ratio	Lower	Upper
142	100		
141	91.8	72.3	108.5
116	3.4	3.0	4.4





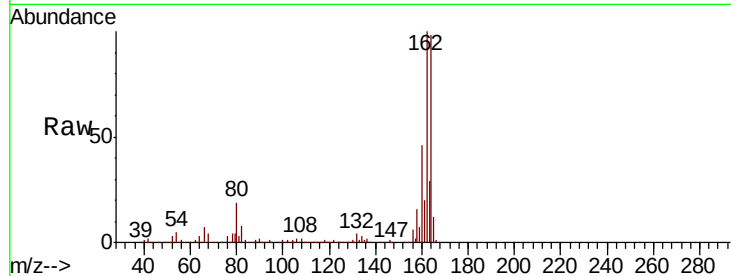
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.72 min Scan# 1298
Delta R.T. -0.00 min
Lab File: BF114656.D
Acq: 30 May 2019 13:08

Instrument :
BNA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	102.2	81.4	122.2	
160	47.1	36.6	54.8	

Manual Integrations
APPROVED

mohammad
6/3/2019 8:47:03 AM

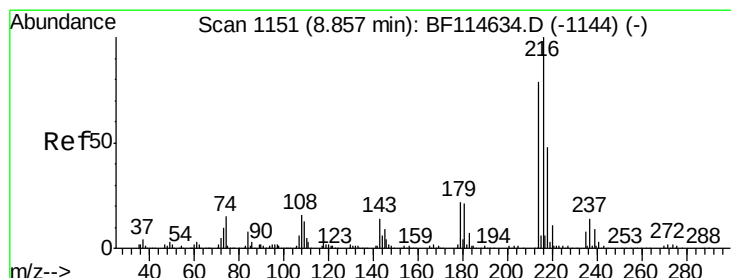
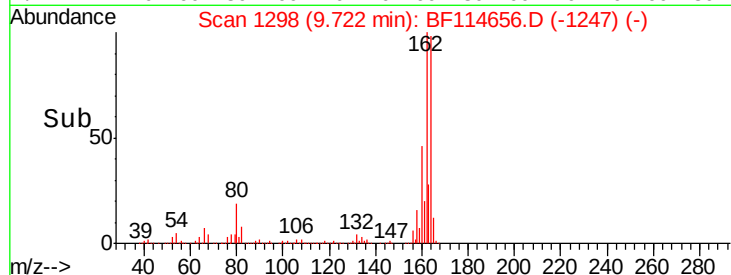
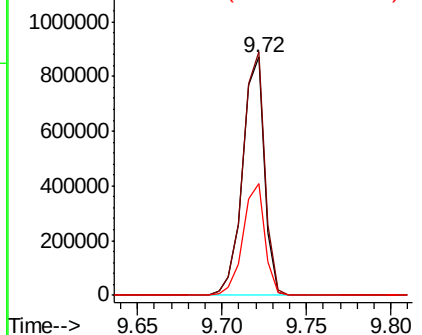


Abundance

Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#40
1,2,4,5-Tetrachlorobenzene
Concen: 6.289 ng
RT: 8.85 min Scan# 1150
Delta R.T. -0.01 min
Lab File: BF114656.D
Acq: 30 May 2019 13:08

Tgt Ion	Ratio	Resp	Lower	Upper
216	100			
214	77.1	63.2	94.8	
179	21.7	17.9	26.9	
108	19.4	15.8	23.8	

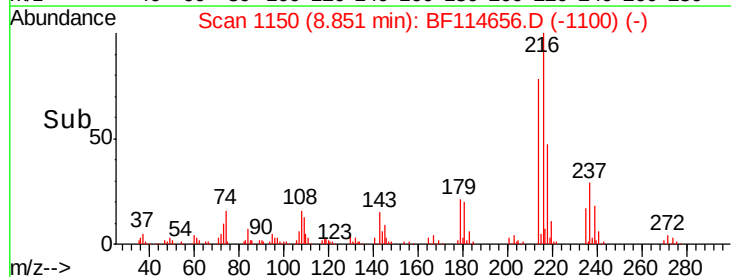
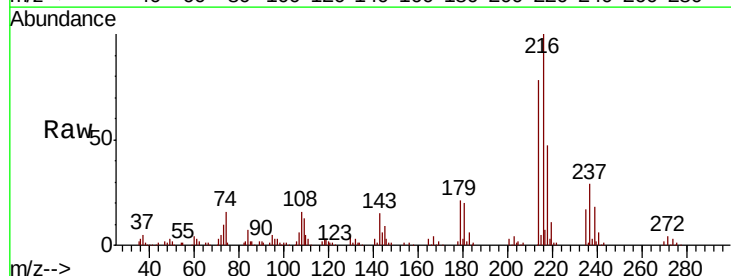
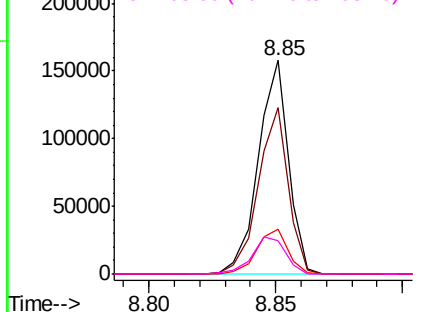
Abundance

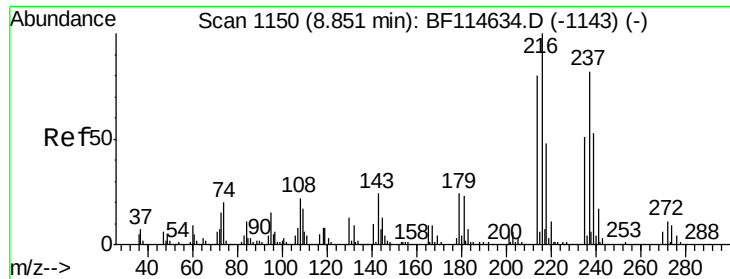
Ion 216.00 (215.70 to 216.70): E

Ion 214.00 (213.70 to 214.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 108.00 (107.70 to 108.70): E





#41

Hexachlorocyclopentadiene

Concen: 5.722 ng

RT: 8.85 min Scan# 1149

Delta R.T. -0.01 min

Lab File: BF114656.D

Acq: 30 May 2019 13:08

Instrument :

BNA_F

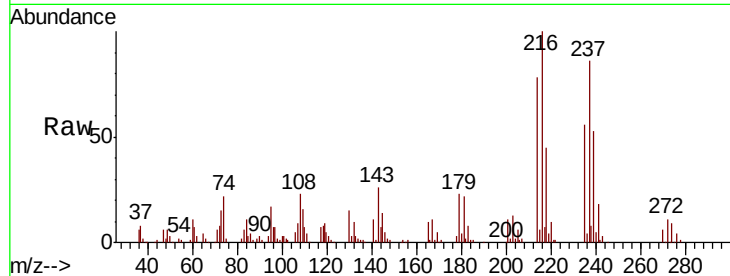
ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

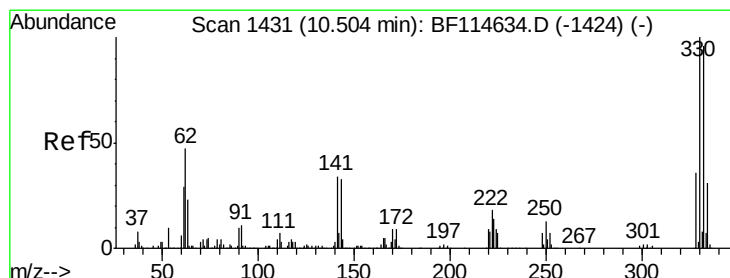
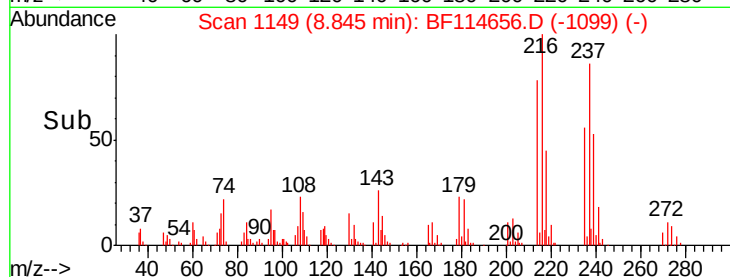
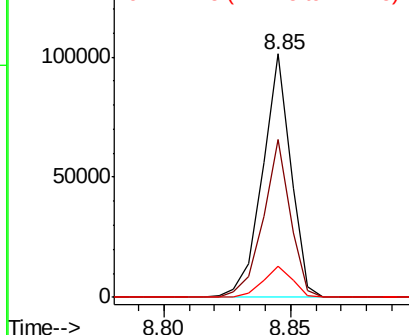
Tot Ion:	237	Resp:	79235
Ion Ratio	Lower	Upper	
237	100		
235	64.6	42.8	82.8
272	13.0	0.0	33.7

Manual Integrations
APPROVED

mohammad
6/3/2019 8:47:03 AM



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



#42

2,4,6-Tribromophenol

Concen: 141.927 ng

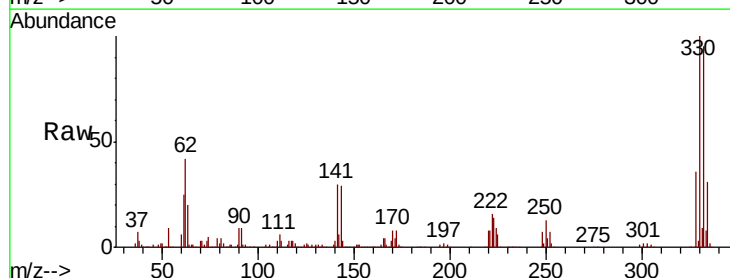
RT: 10.50 min Scan# 1431

Delta R.T. -0.00 min

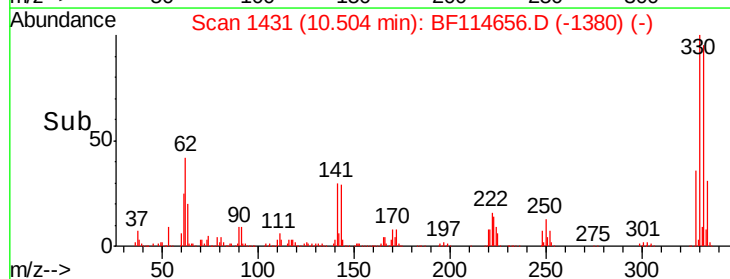
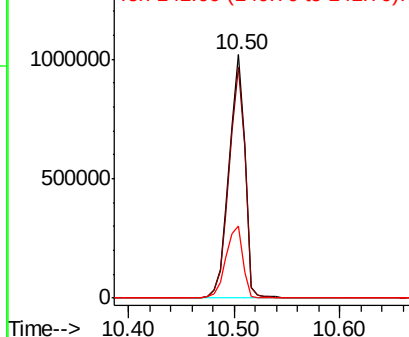
Lab File: BF114656.D

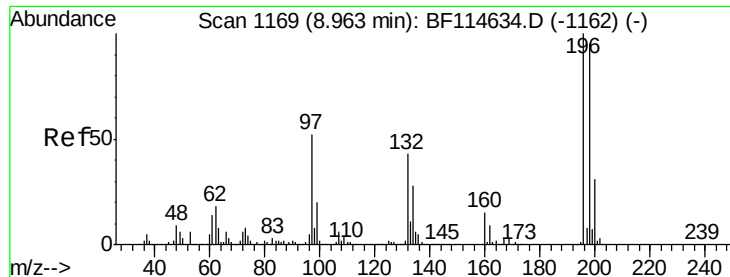
Acq: 30 May 2019 13:08

Tgt Ion:	330	Resp:	1064043
Ion Ratio	Lower	Upper	
330	100		
332	96.3	75.8	113.8
141	32.0	27.8	41.8



Abundance Ion 329.80 (329.50 to 330.50): E
Ion 331.80 (331.50 to 332.50): E
Ion 141.00 (140.70 to 141.70): E





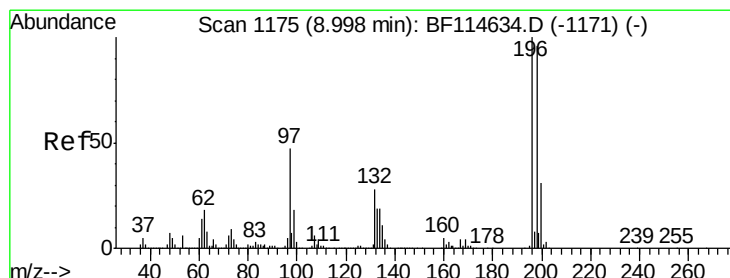
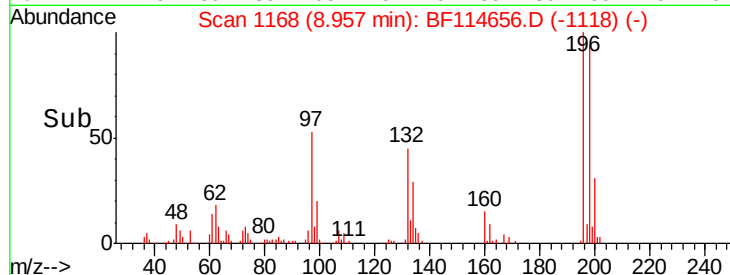
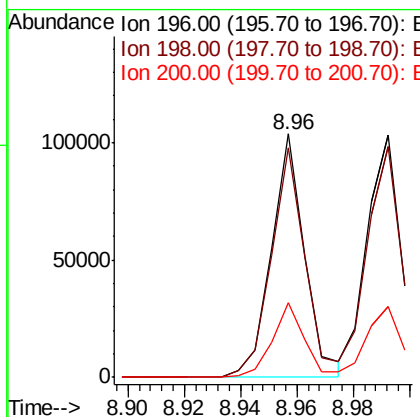
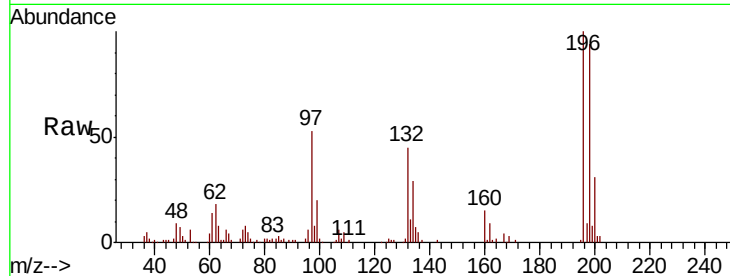
#43
 2,4,6-Trichlorophenol
 Concen: 5.153 ng
 RT: 8.96 min Scan# 1168
 Delta R.T. -0.01 min
 Lab File: BF114656.D
 Acq: 30 May 2019 13:08

Instrument :
 BNA_F
 ClientSampleID :
 LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Resp	Lower	Upper
196	100	84960		
198	94.1	76.1	114.1	
200	30.8	24.7	37.1	

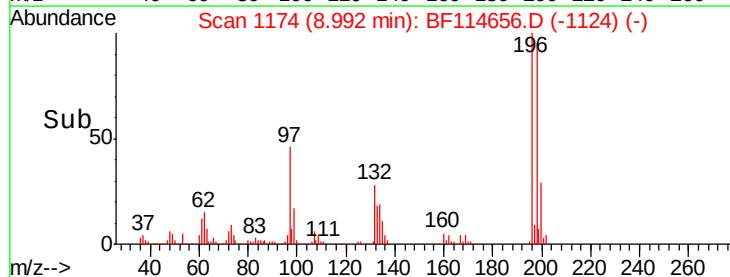
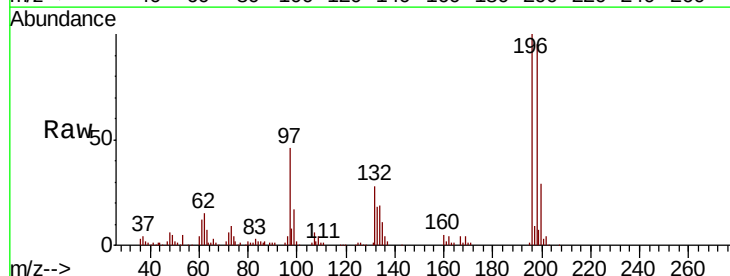
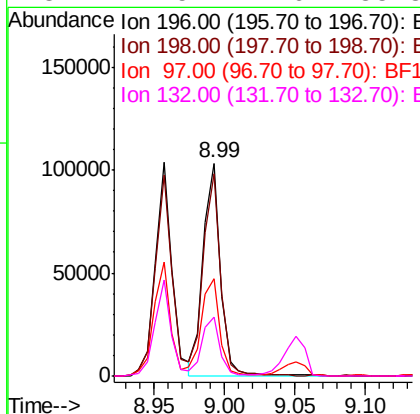
Manual Integrations
 APPROVED

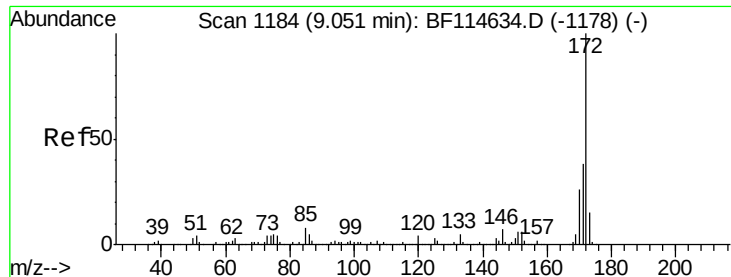
mohammad
 6/3/2019 8:47:03 AM



#44
 2,4,5-Trichlorophenol
 Concen: 5.448 ng
 RT: 8.99 min Scan# 1174
 Delta R.T. -0.01 min
 Lab File: BF114656.D
 Acq: 30 May 2019 13:08

Tgt Ion	Ratio	Resp	Lower	Upper
196	100	89637		
198	95.1	76.8	115.2	
97	45.8	37.8	56.8	
132	27.5	22.6	33.8	





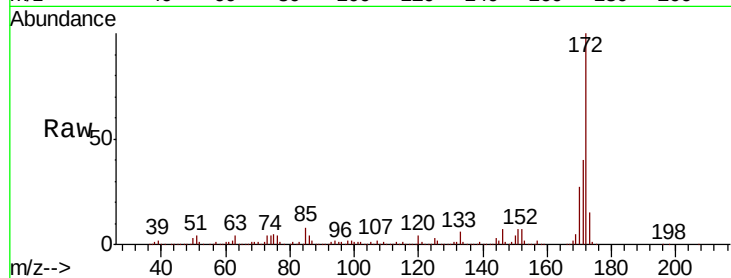
#45
2-Fluorobiphenyl
Concen: 79.204 ng
RT: 9.05 min Scan# 1184
Delta R.T. -0.00 min
Lab File: BF114656.D
Acq: 30 May 2019 13:08

Instrument :
BNA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

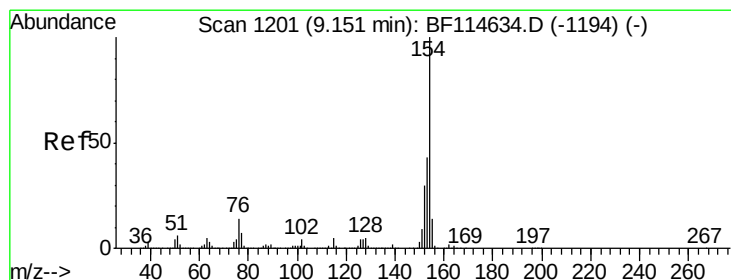
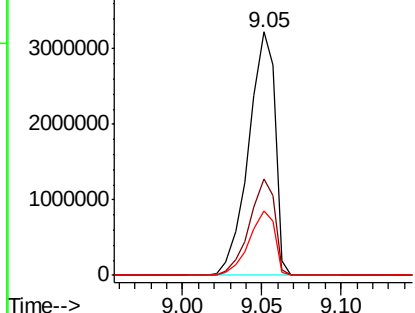
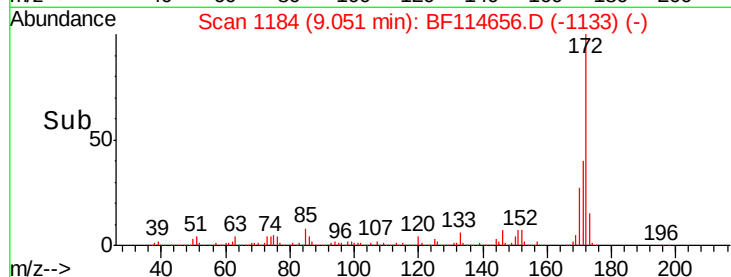
Tot Ion:172 Resp: 3751008
Ion Ratio Lower Upper
172 100
171 39.5 30.6 45.8
170 26.7 20.7 31.1

Manual Integrations
APPROVED

mohammad
6/3/2019 8:47:03 AM

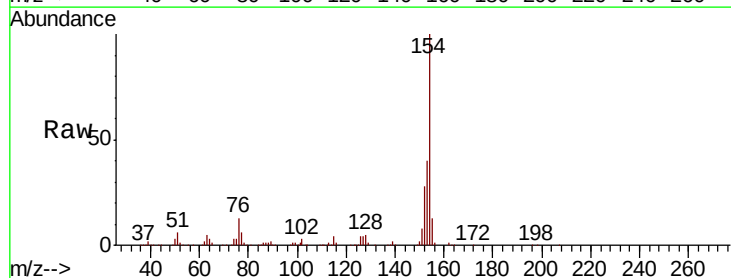


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

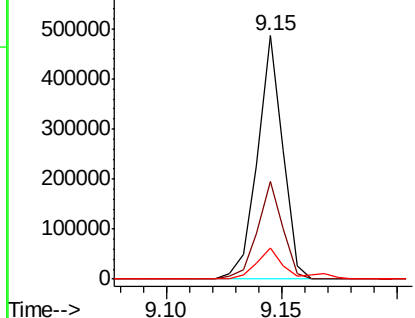
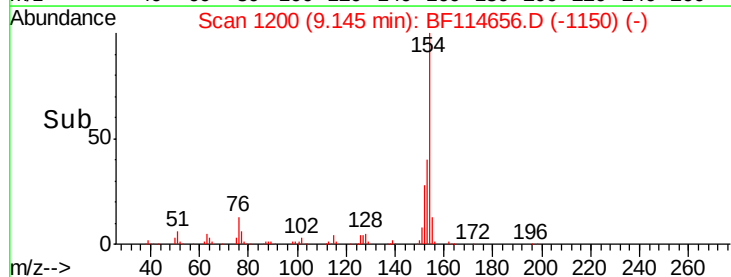


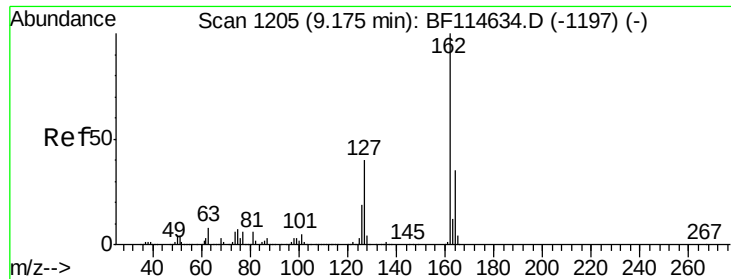
#46
1,1'-Biphenyl
Concen: 6.379 ng
RT: 9.15 min Scan# 1200
Delta R.T. -0.01 min
Lab File: BF114656.D
Acq: 30 May 2019 13:08

Tgt Ion:154 Resp: 372588
Ion Ratio Lower Upper
154 100
153 39.9 23.0 63.0
76 12.6 0.0 33.9



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 76.00 (75.70 to 76.70): BF1





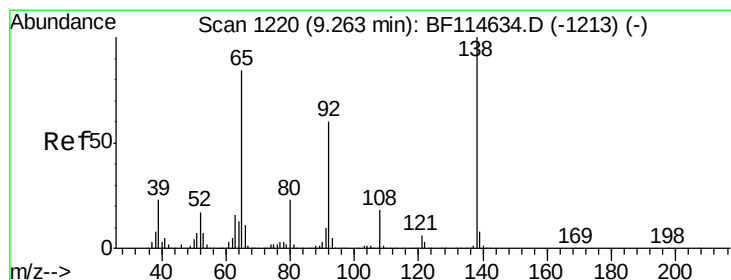
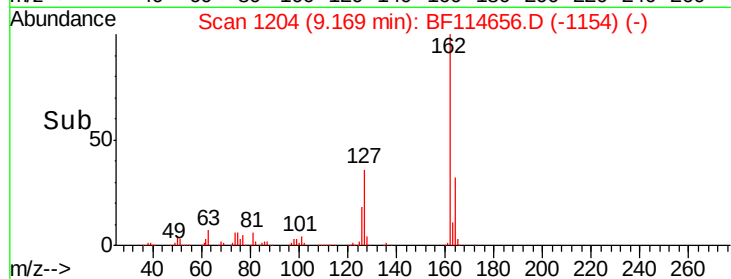
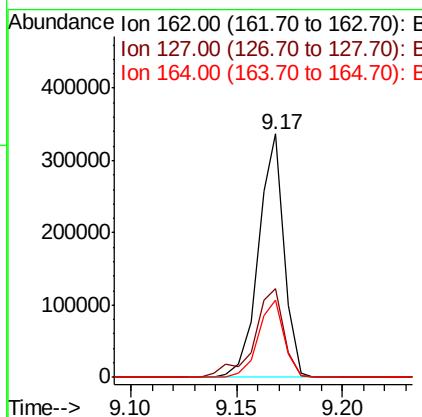
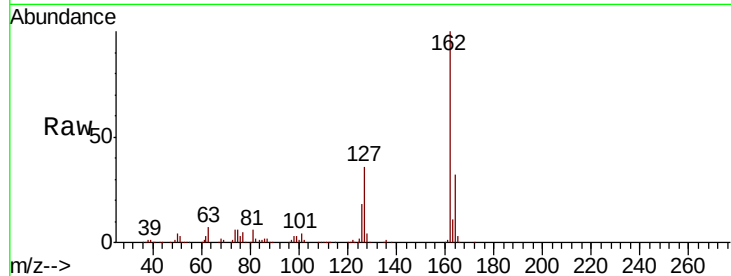
#47
2-Chloronaphthalene
Concen: 5.891 ng
RT: 9.17 min Scan# 1204
Delta R.T. -0.01 min
Lab File: BF114656.D
Acq: 30 May 2019 13:08

Instrument :
BNA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
162	100		
127	36.4	32.2	48.2
164	31.7	27.8	41.6

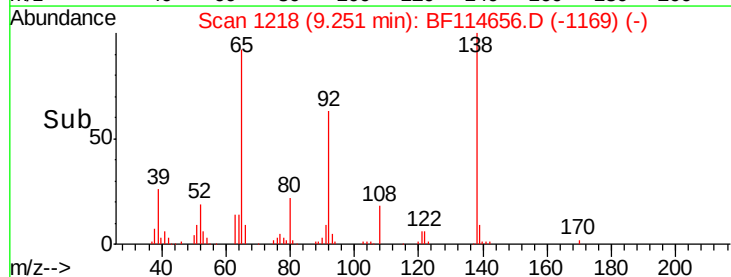
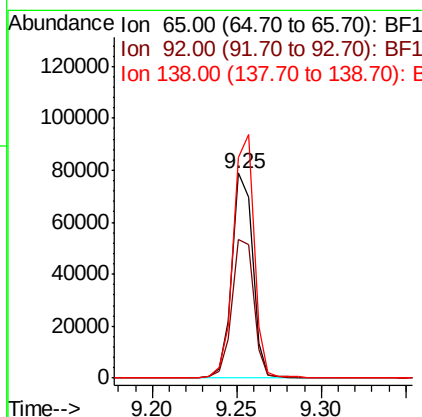
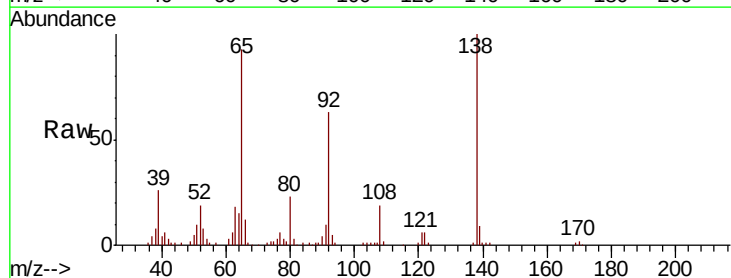
Manual Integrations
APPROVED

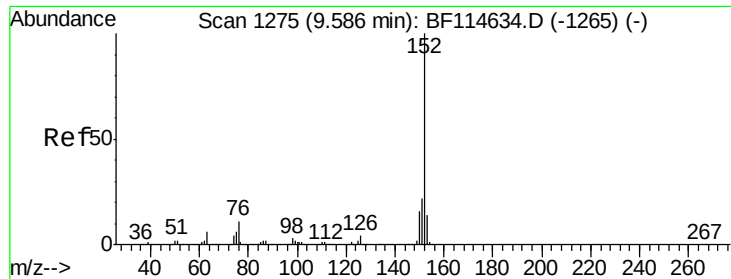
mohammad
6/3/2019 8:47:03 AM



#48
2-Nitroaniline
Concen: 4.574 ng
RT: 9.25 min Scan# 1218
Delta R.T. -0.01 min
Lab File: BF114656.D
Acq: 30 May 2019 13:08

Tgt Ion	Ratio	Lower	Upper
65	100		
92	67.6	57.1	85.7
138	107.5	95.8	143.6





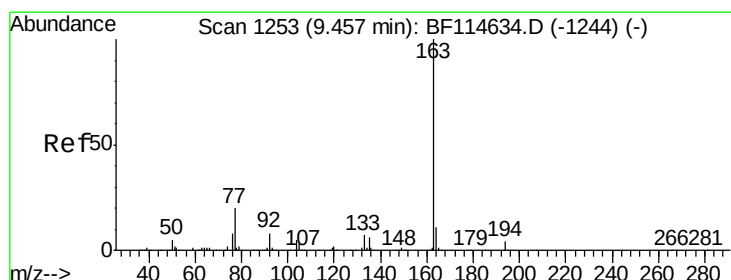
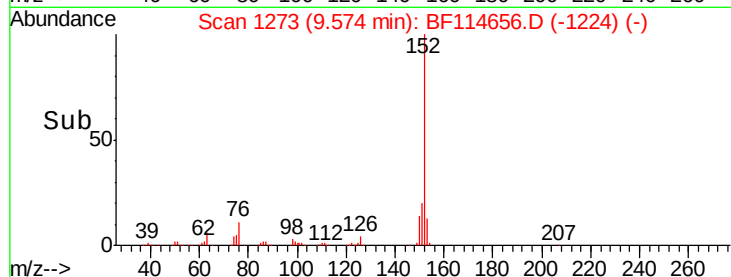
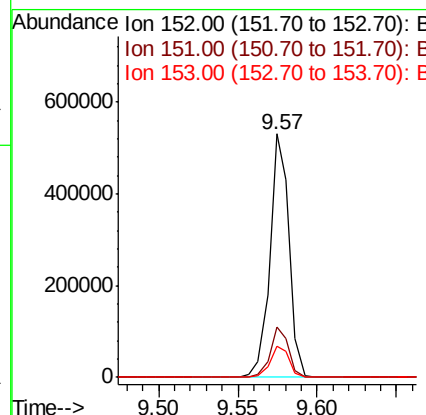
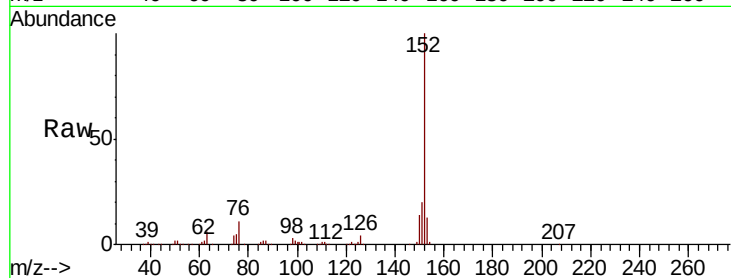
#49
Acenaphthylene
Concen: 6.095 ng
RT: 9.57 min Scan# 1273
Delta R.T. -0.01 min
Lab File: BF114656.D
Acq: 30 May 2019 13:08

Instrument :
BNA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
152	100		
151	20.4	17.5	26.3
153	13.0	11.6	17.4

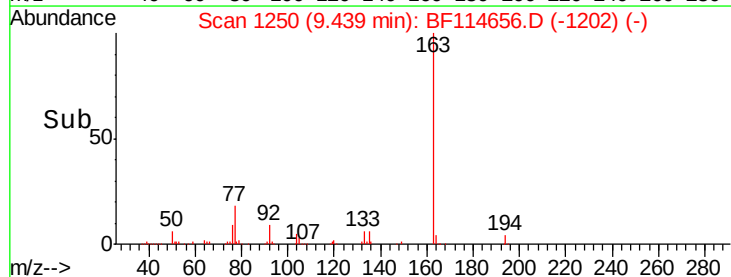
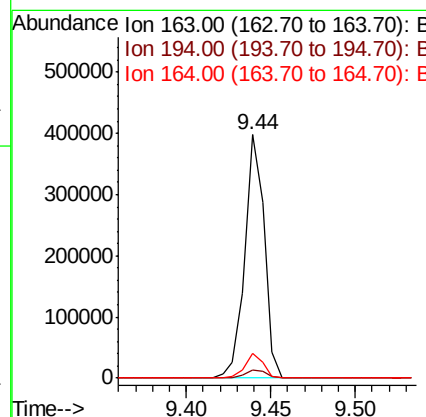
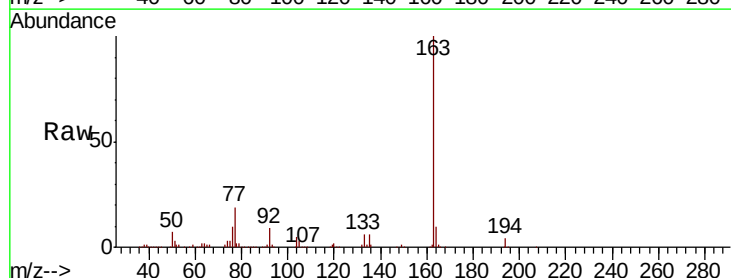
Manual Integrations
APPROVED

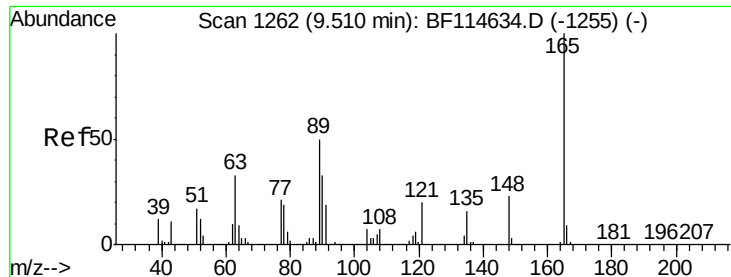
mohammad
6/3/2019 8:47:03 AM



#50
Dimethylphthalate
Concen: 5.807 ng
RT: 9.44 min Scan# 1250
Delta R.T. -0.02 min
Lab File: BF114656.D
Acq: 30 May 2019 13:08

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.5	3.4	5.0
164	10.1	8.6	13.0





#51

2,6-Dinitrotoluene

Concen: 5.026 ng

RT: 9.50 min Scan# 1260

Delta R.T. -0.01 min

Lab File: BF114656.D

Acq: 30 May 2019 13:08

Instrument :

BNA_F

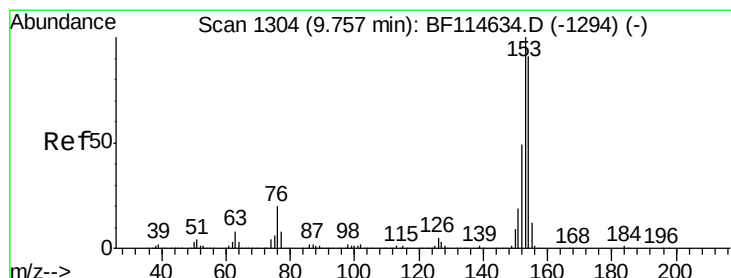
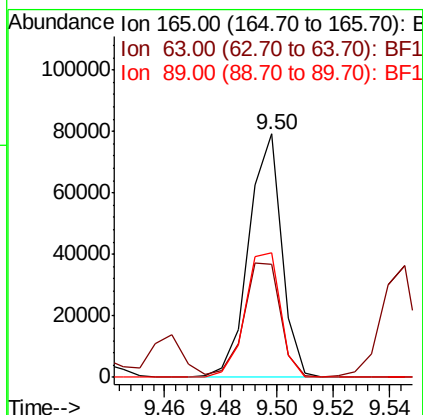
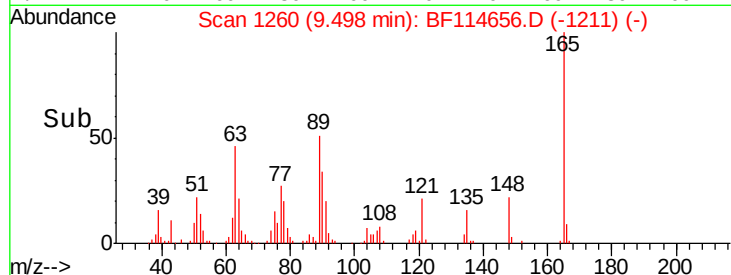
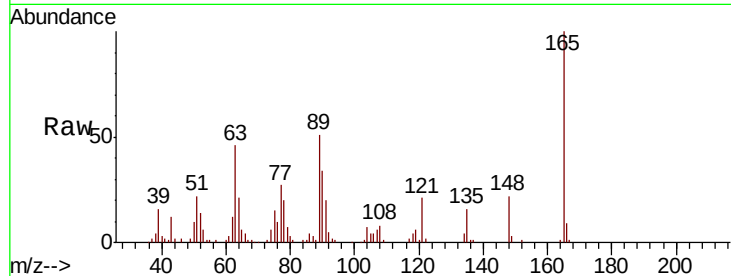
ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion:	165	Resp:	64025
Ion Ratio	Lower	Upper	
165	100		
63	46.3	36.6	54.8
89	51.2	40.2	60.4

Manual Integrations
APPROVED

mohammad
6/3/2019 8:47:03 AM



#52

Acenaphthene

Concen: 5.919 ng

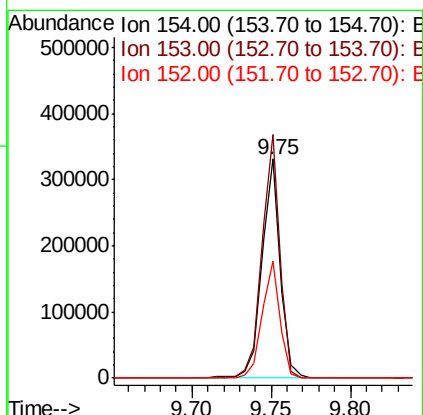
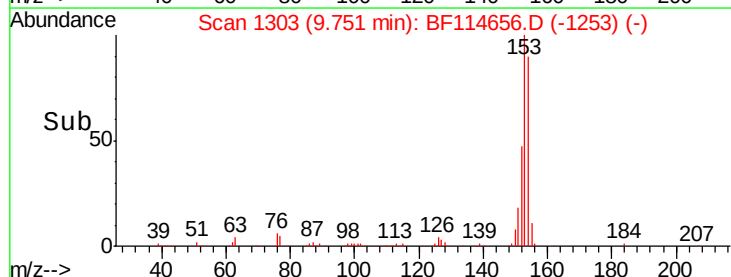
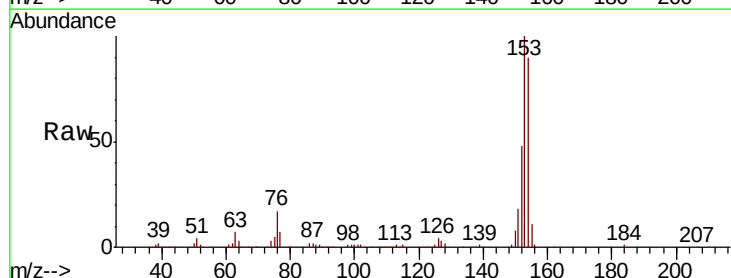
RT: 9.75 min Scan# 1303

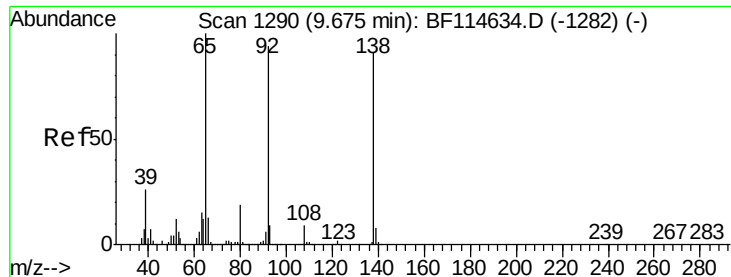
Delta R.T. -0.01 min

Lab File: BF114656.D

Acq: 30 May 2019 13:08

Tgt Ion:	154	Resp:	268684
Ion Ratio	Lower	Upper	
154	100		
153	111.1	88.4	132.6
152	53.4	43.4	65.0





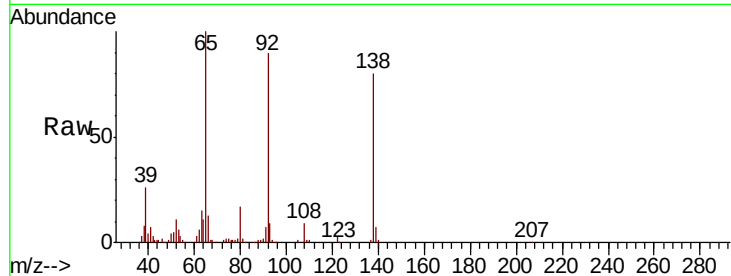
#53
3-Nitroaniline
Concen: 4.754 ng
RT: 9.66 min Scan# 1287
Delta R.T. -0.02 min
Lab File: BF114656.D
Acq: 30 May 2019 13:08

Instrument :
BNA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
138	100		
108	11.1	8.3	12.5
92	112.0	83.1	124.7

Manual Integrations
APPROVED

mohammad
6/3/2019 8:47:03 AM

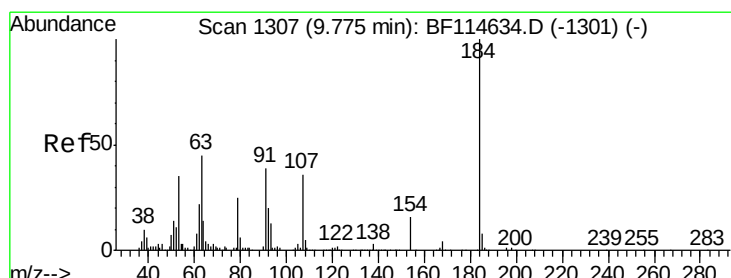
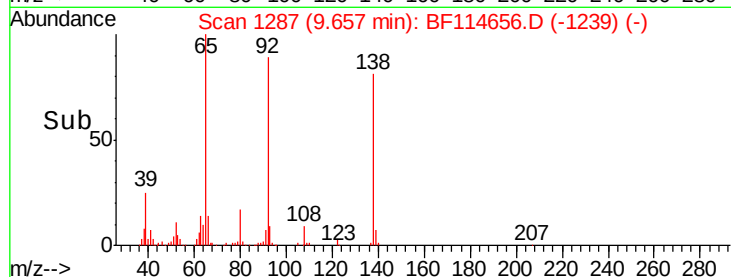
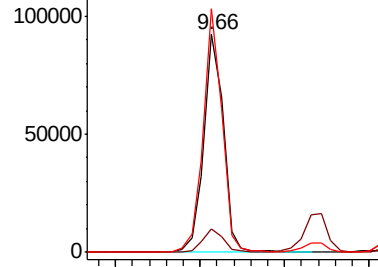


Abundance

Ion 138.00 (137.70 to 138.70): E

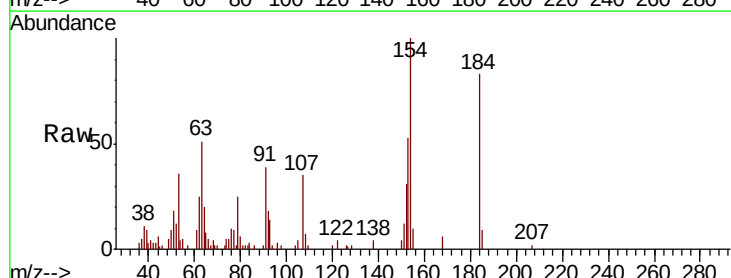
Ion 108.00 (107.70 to 108.70): E

Ion 92.00 (91.70 to 92.70): BF1



#54
2,4-Dinitrophenol
Concen: 2.756 ng
RT: 9.76 min Scan# 1305
Delta R.T. -0.01 min
Lab File: BF114656.D
Acq: 30 May 2019 13:08

Tgt Ion	Ratio	Lower	Upper
184	100		
63	62.0	38.8	58.2#
154	120.7	43.7	65.5#

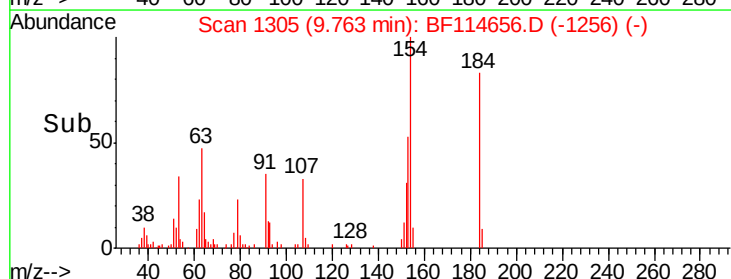
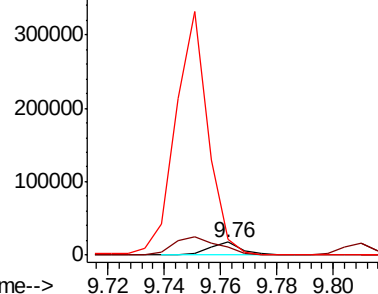


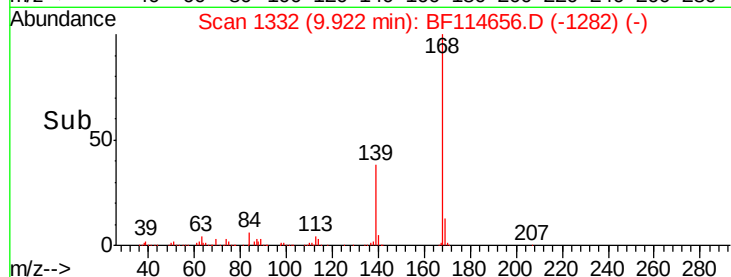
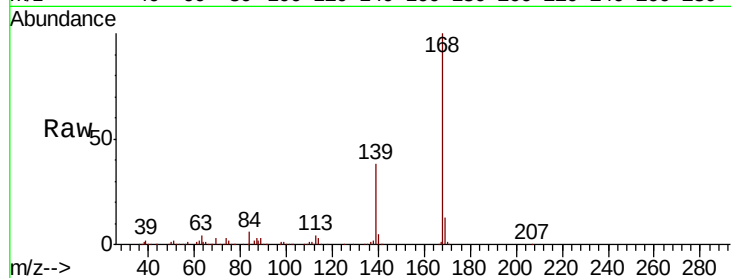
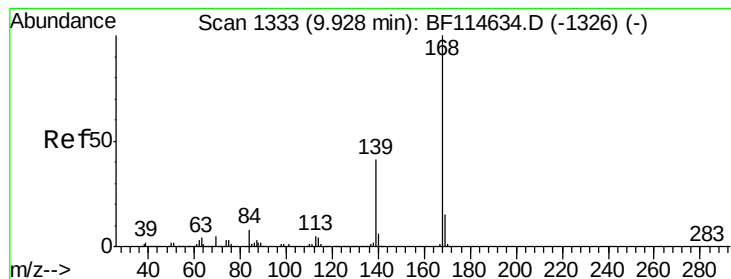
Abundance

Ion 184.00 (183.70 to 184.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 154.00 (153.70 to 154.70): E





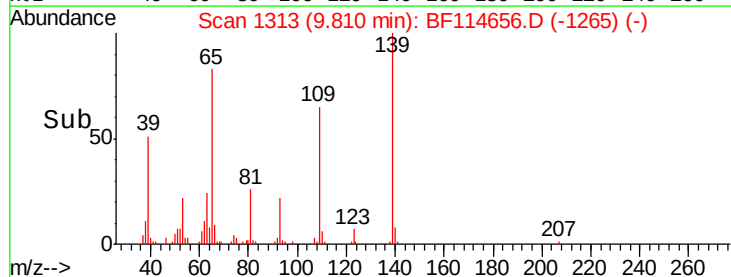
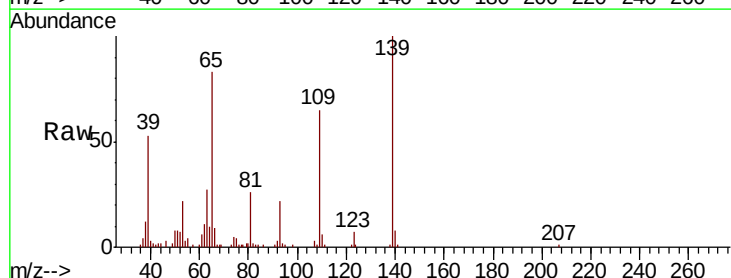
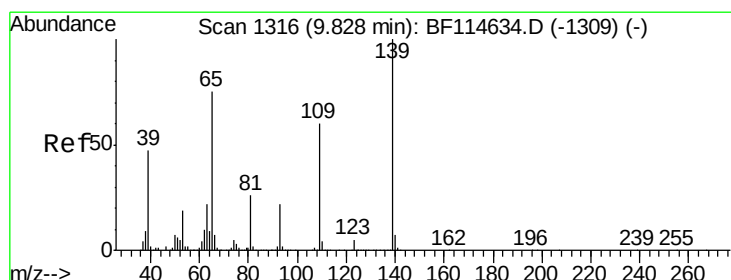
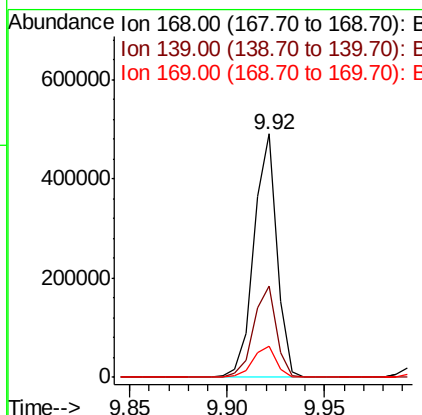
#55
Dibenzofuran
Concen: 6.190 ng
RT: 9.92 min Scan# 1332
Delta R.T. -0.01 min
Lab File: BF114656.D
Acq: 30 May 2019 13:08

Tot Ion	Ratio	Resp	Lower	Upper
168	100	399945		
139	37.6		32.6	48.8
169	12.9		11.8	17.8

Instrument :
BNA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

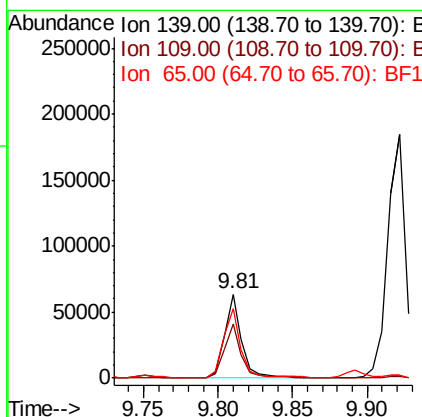
Manual Integrations
APPROVED

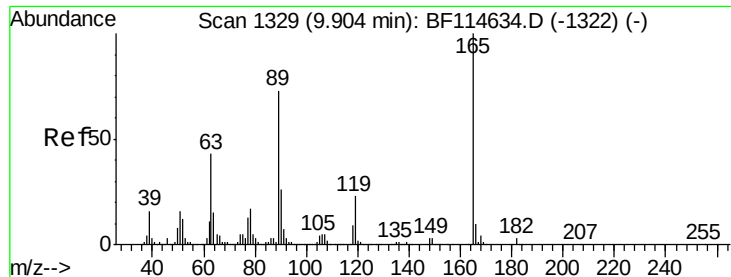
mohammad
6/3/2019 8:47:03 AM



#56
4-Nitrophenol
Concen: 4.487 ng
RT: 9.81 min Scan# 1313
Delta R.T. -0.02 min
Lab File: BF114656.D
Acq: 30 May 2019 13:08

Tgt Ion	Ratio	Resp	Lower	Upper
139	100	51851		
109	64.9		40.4	80.4
65	83.2		54.7	94.7





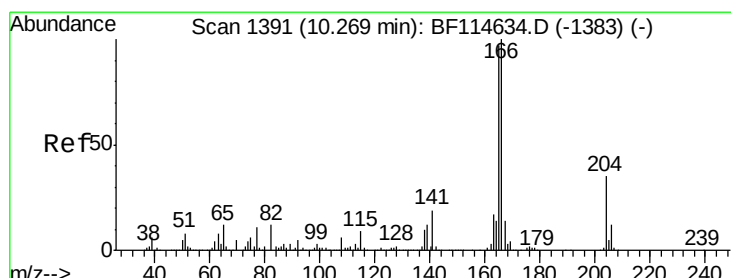
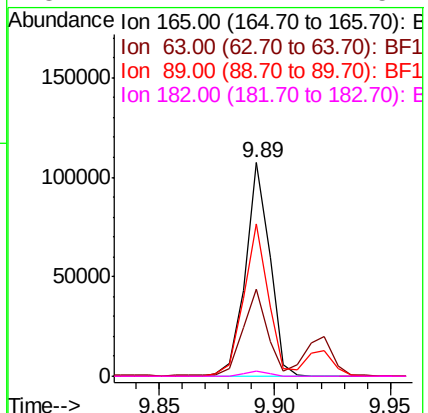
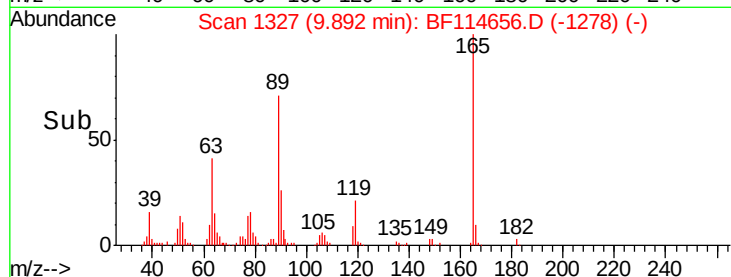
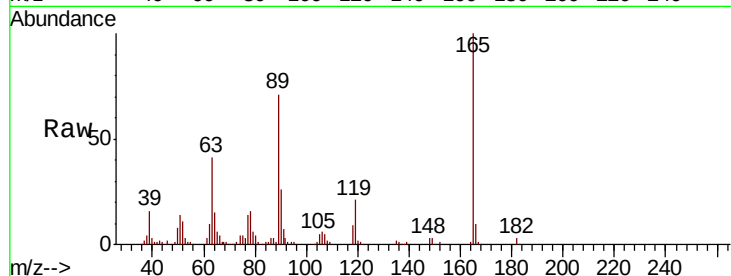
#57
2,4-Dinitrotoluene
Concen: 4.860 ng
RT: 9.89 min Scan# 1327
Delta R.T. -0.01 min
Lab File: BF114656.D
Acq: 30 May 2019 13:08

Instrument :
BNA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion:	165	Resp:	79460
Ion Ratio	Lower	Upper	
165	100		
63	40.7	34.8	52.2
89	71.5	58.5	87.7
182	2.7	2.2	3.2

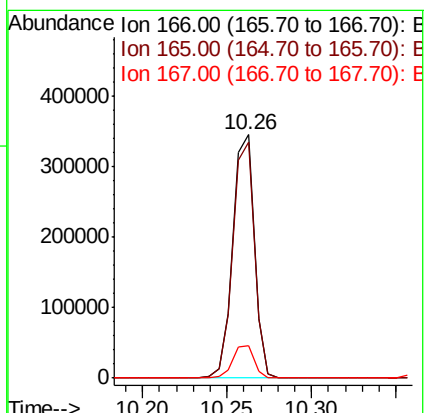
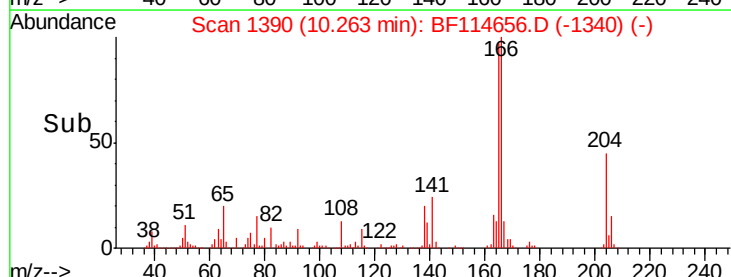
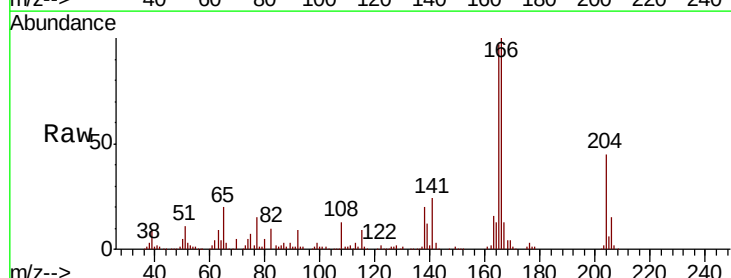
Manual Integrations
APPROVED

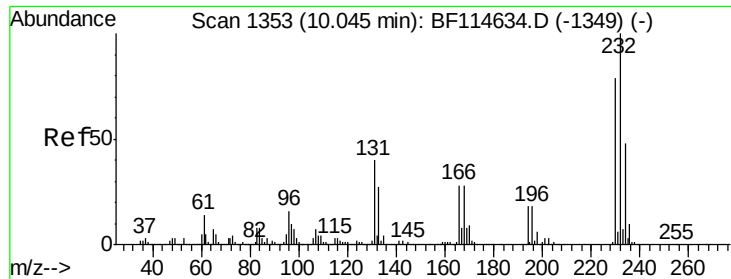
mohammad
6/3/2019 8:47:03 AM



#58
Fluorene
Concen: 7.023 ng
RT: 10.26 min Scan# 1390
Delta R.T. -0.01 min
Lab File: BF114656.D
Acq: 30 May 2019 13:08

Tgt Ion:	166	Resp:	306417
Ion Ratio	Lower	Upper	
166	100		
165	97.1	77.6	116.4
167	13.1	11.2	16.8





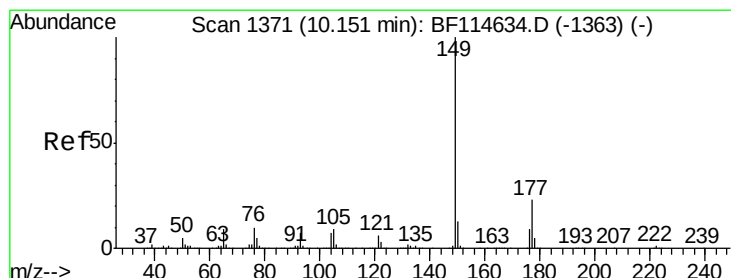
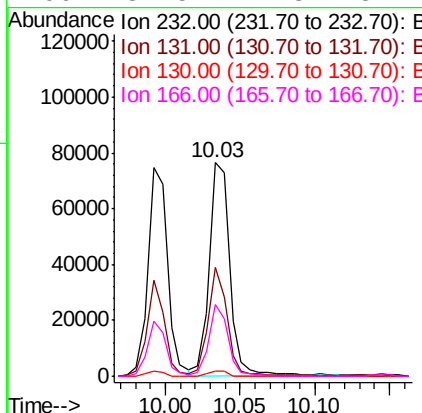
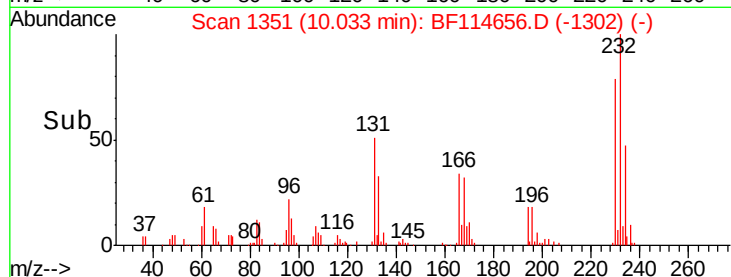
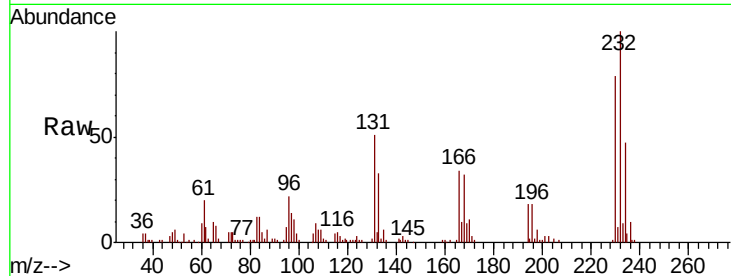
#59
2,3,4,6-Tetrachlorophenol
Concen: 5.415 ng
RT: 10.03 min Scan# 1351
Delta R.T. -0.01 min
Lab File: BF114656.D
Acq: 30 May 2019 13:08

Instrument :
BNA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
232	100		
131	45.8	37.2	55.8
130	2.3	1.8	2.8
166	31.5	24.8	37.2

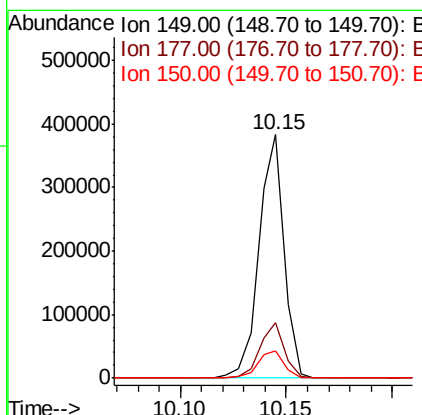
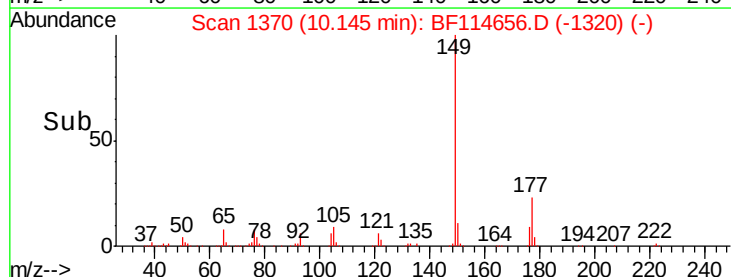
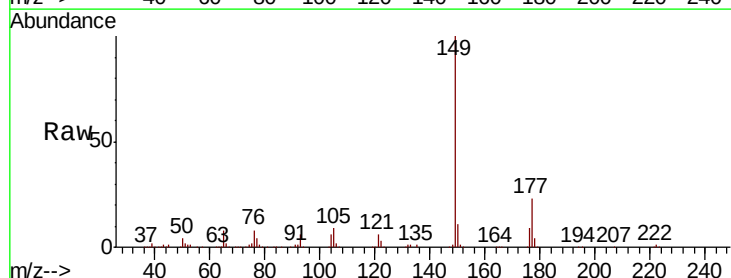
Manual Integrations
APPROVED

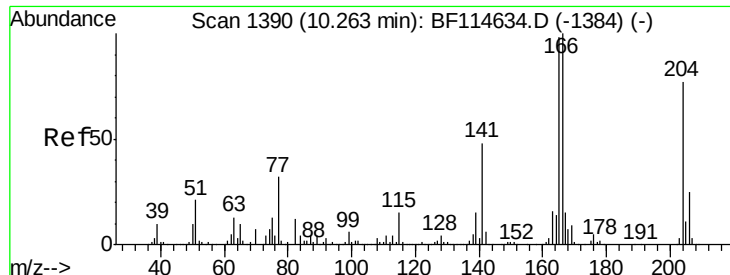
mohammad
6/3/2019 8:47:03 AM



#60
Diethylphthalate
Concen: 5.652 ng
RT: 10.15 min Scan# 1370
Delta R.T. -0.01 min
Lab File: BF114656.D
Acq: 30 May 2019 13:08

Tgt Ion	Ratio	Lower	Upper
149	100		
177	23.0	18.6	28.0
150	11.3	10.6	15.8





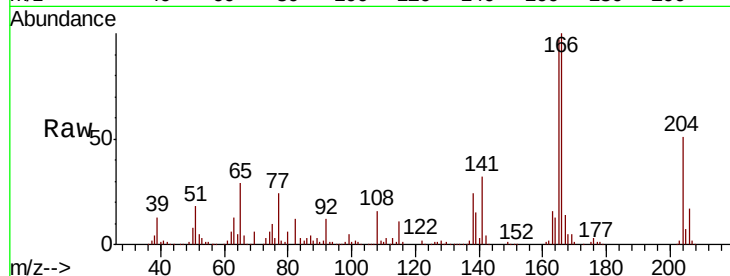
#61
 4-Chlorophenyl-phenylether
 Concen: 6.740 ng
 RT: 10.26 min Scan# 1389
 Delta R.T. -0.01 min
 Lab File: BF114656.D
 Acq: 30 May 2019 13:08

Instrument :
 BNA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT2-2019

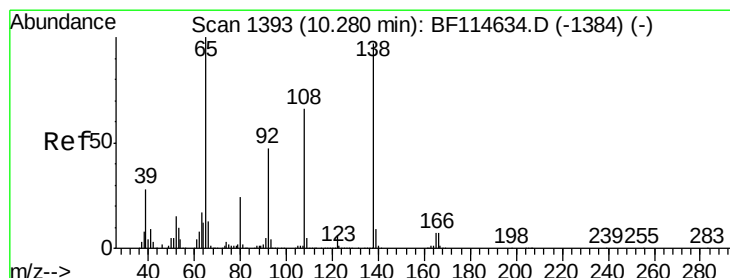
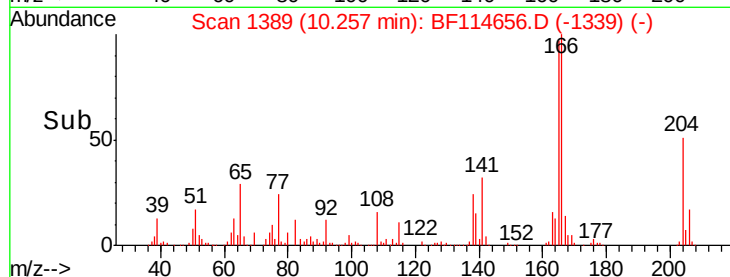
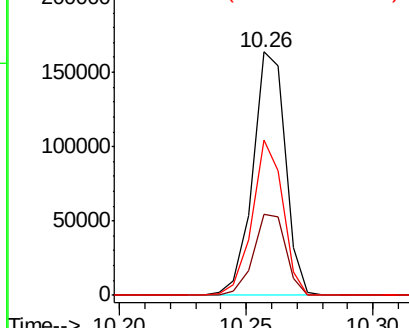
Tot Ion	Ratio	Lower	Upper
204	100		
206	33.1	26.4	39.6
141	63.7	50.0	75.0

Manual Integrations
 APPROVED

mohammad
 6/3/2019 8:47:03 AM

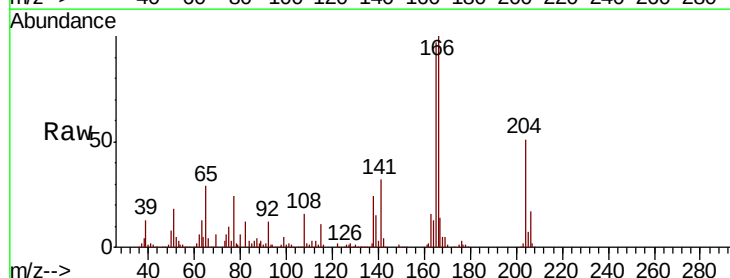


Abundance Ion 204.00 (203.70 to 204.70): E
 Ion 206.00 (205.70 to 206.70): E
 Ion 141.00 (140.70 to 141.70): E

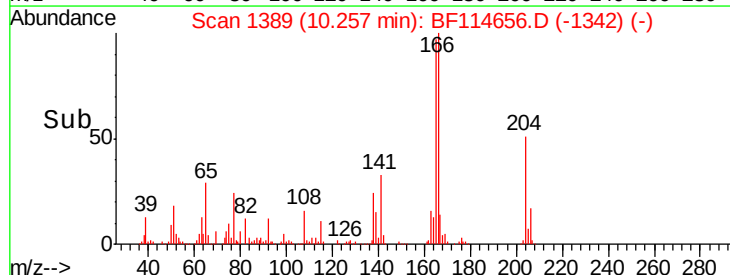
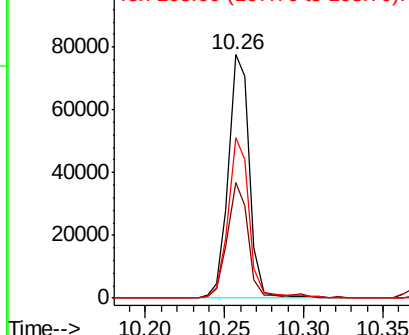


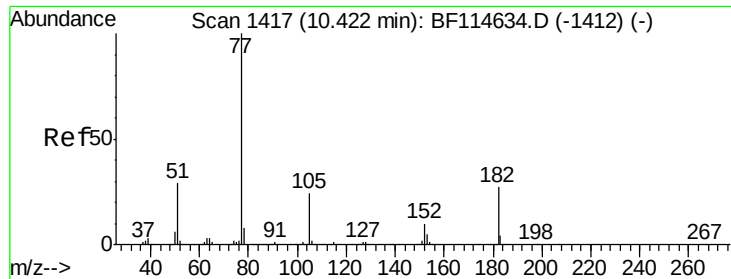
#62
 4-Nitroaniline
 Concen: 4.732 ng
 RT: 10.26 min Scan# 1389
 Delta R.T. -0.02 min
 Lab File: BF114656.D
 Acq: 30 May 2019 13:08

Tgt Ion	Ratio	Lower	Upper
138	100		
92	47.6	28.0	68.0
108	66.0	48.4	88.4



Abundance Ion 138.00 (137.70 to 138.70): E
 Ion 92.00 (91.70 to 92.70): BF1
 Ion 108.00 (107.70 to 108.70): E





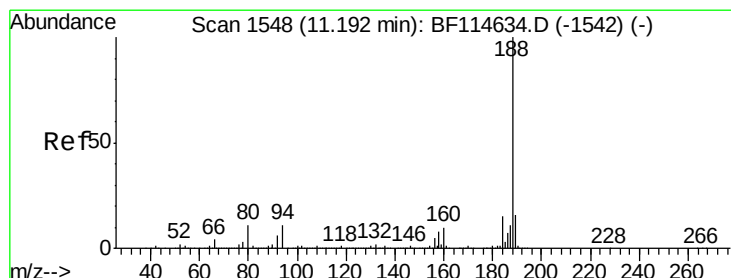
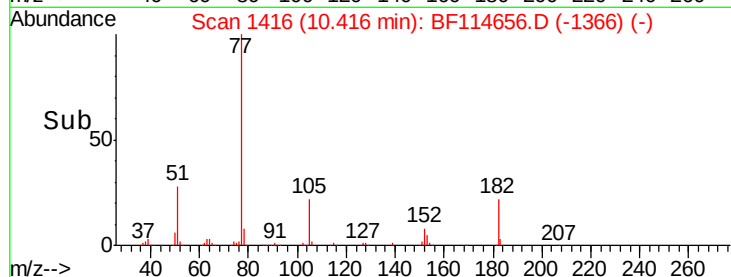
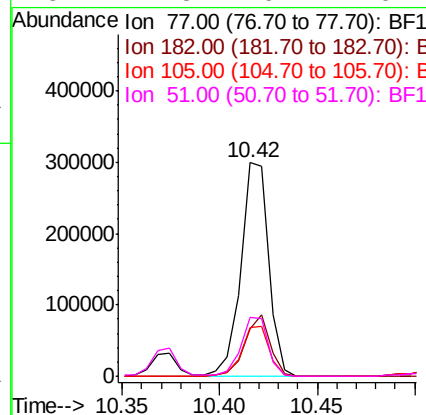
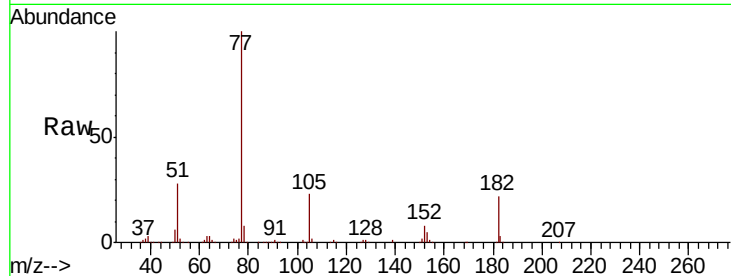
#63
Azobenzene
Concen: 5.765 ng
RT: 10.42 min Scan# 1416
Delta R.T. -0.01 min
Lab File: BF114656.D
Acq: 30 May 2019 13:08

Instrument :
BNA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ion	Ratio	Resp	Lower	Upper
77	100		296363		
182	22.5	7.0	47.0		
105	22.7	3.7	43.7		
51	27.8	9.1	49.1		

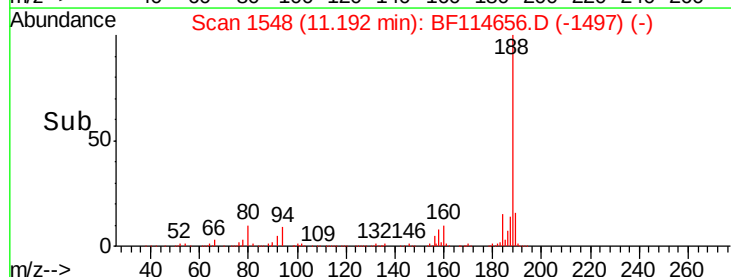
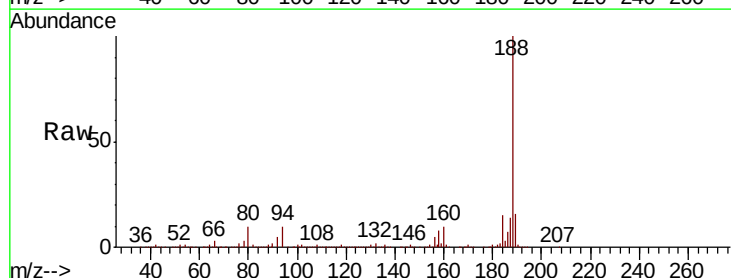
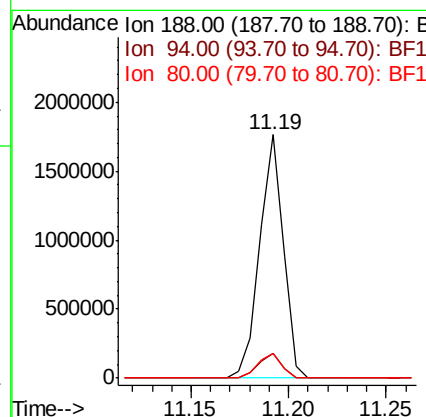
Manual Integrations
APPROVED

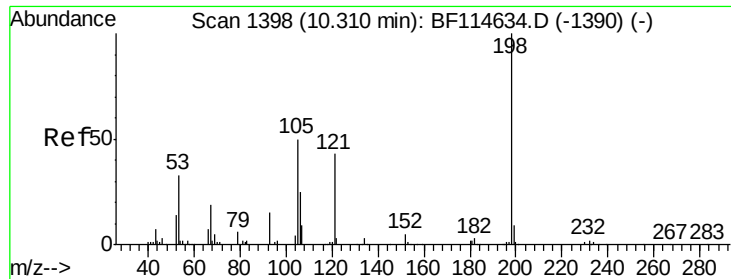
mohammad
6/3/2019 8:47:03 AM



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.19 min Scan# 1548
Delta R.T. -0.00 min
Lab File: BF114656.D
Acq: 30 May 2019 13:08

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
188	100		1488563		
94	9.9	8.6	13.0		
80	10.1	9.0	13.6		





#65

4,6-Dinitro-2-methylphenol

Concen: 3.628 ng

RT: 10.30 min Scan# 1396

Delta R.T. -0.01 min

Lab File: BF114656.D

Acq: 30 May 2019 13:08

Instrument :

BNA_F

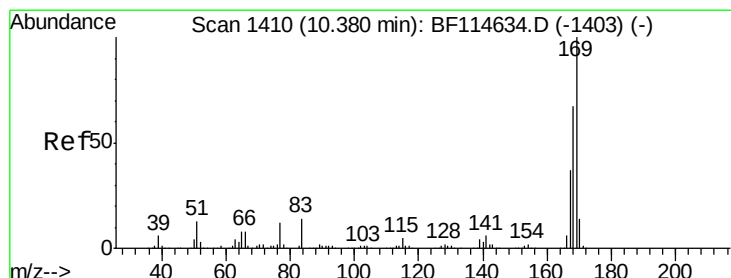
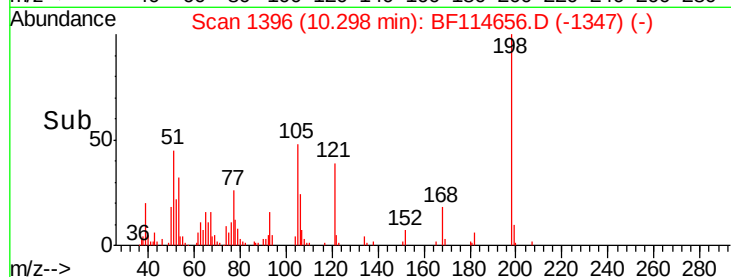
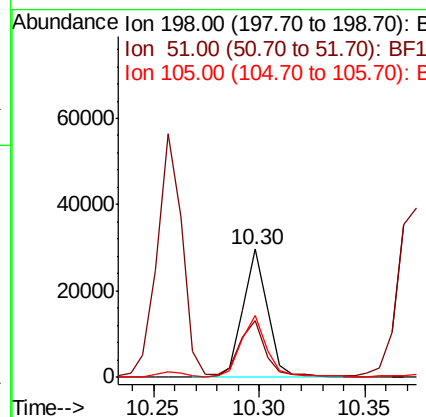
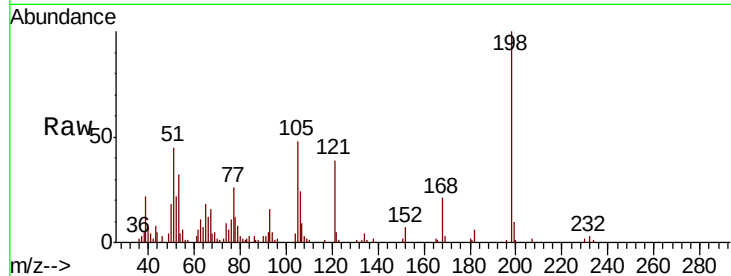
ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion:	198	Resp:	23949
Ion Ratio	Lower	Upper	
198	100		
51	44.6	29.0	69.0
105	48.0	30.4	70.4

Manual Integrations
APPROVED

mohammad
6/3/2019 8:47:03 AM



#66

n-Nitrosodiphenylamine

Concen: 6.038 ng

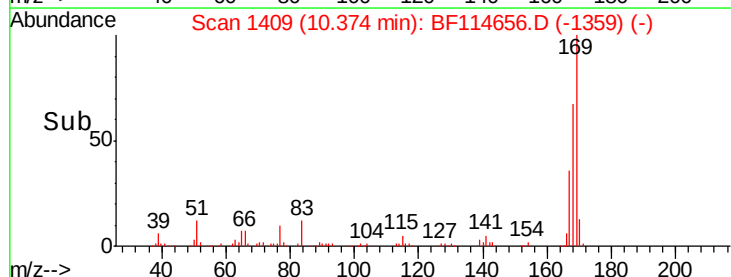
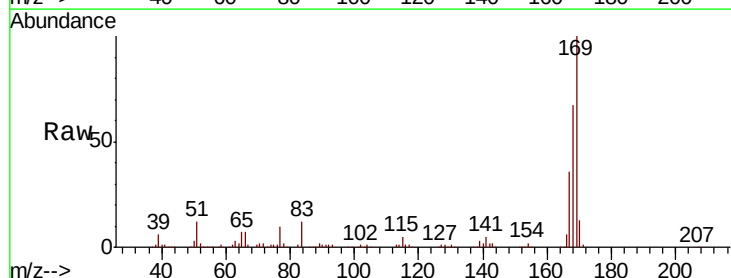
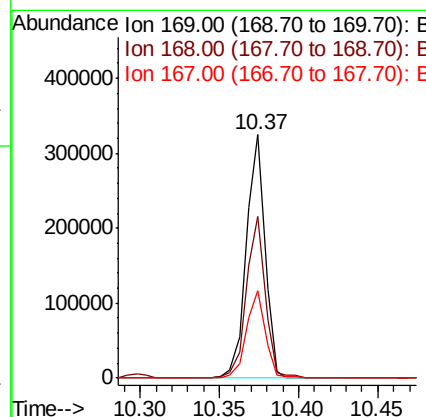
RT: 10.37 min Scan# 1409

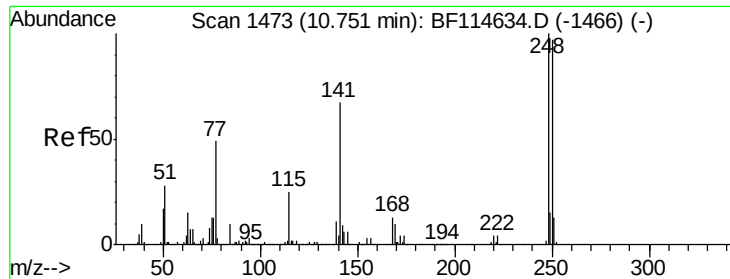
Delta R.T. -0.01 min

Lab File: BF114656.D

Acq: 30 May 2019 13:08

Tgt Ion:	169	Resp:	265562
Ion Ratio	Lower	Upper	
169	100		
168	66.7	53.8	80.8
167	35.8	29.8	44.6





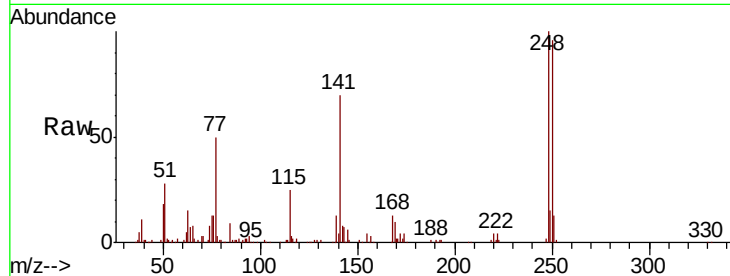
#67
4-Bromophenyl-phenylether
Concen: 5.530 ng
RT: 10.74 min Scan# 1472
Delta R.T. -0.01 min
Lab File: BF114656.D
Acq: 30 May 2019 13:08

Instrument :
BNA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
248	100		
250	96.3	78.0	117.0
141	69.6	53.8	80.8

Manual Integrations
APPROVED

mohammad
6/3/2019 8:47:03 AM

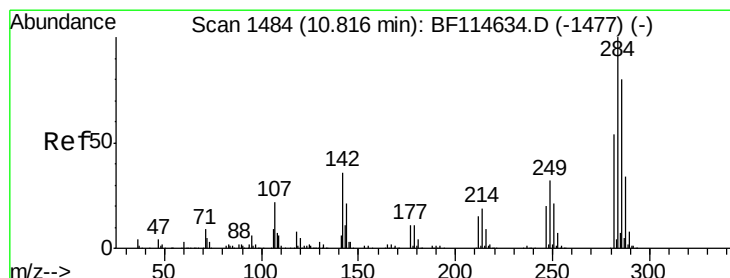
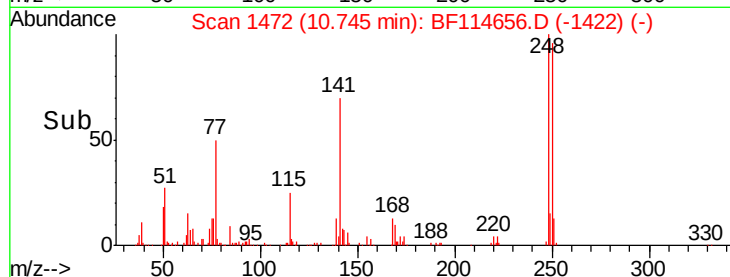
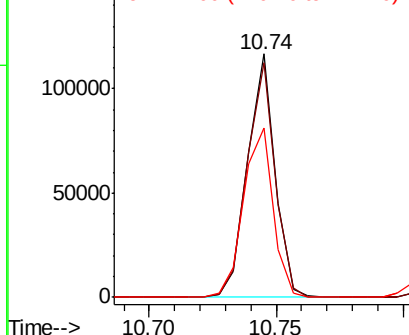


Abundance

Ion 248.00 (247.70 to 248.70): E

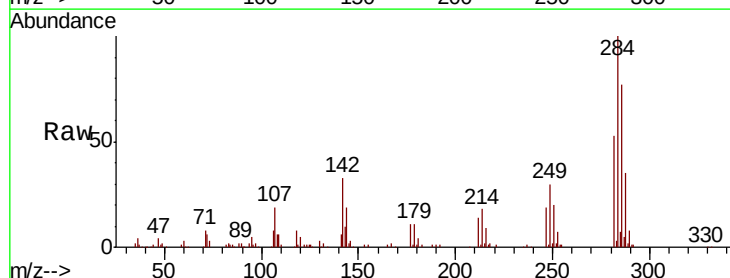
Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E



#68
Hexachlorobenzene
Concen: 5.633 ng
RT: 10.81 min Scan# 1483
Delta R.T. -0.01 min
Lab File: BF114656.D
Acq: 30 May 2019 13:08

Tgt Ion	Ratio	Lower	Upper
284	100		
142	33.0	28.9	43.3
249	30.0	25.8	38.6

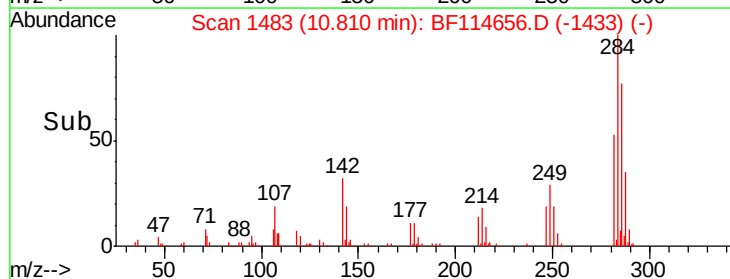
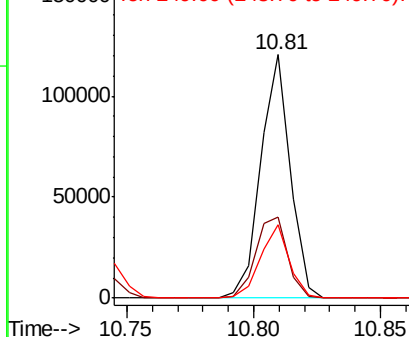


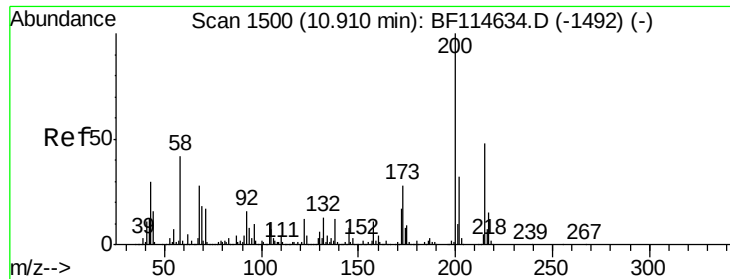
Abundance

Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E





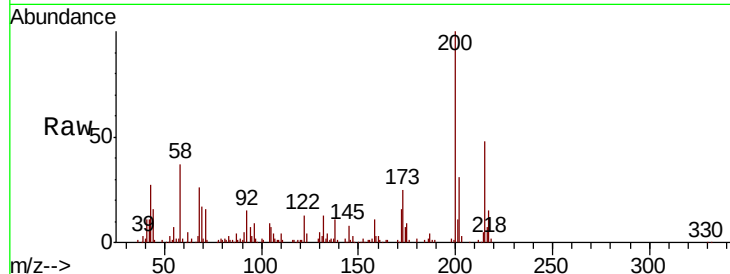
#69
Atrazine
Concen: 5.514 ng
RT: 10.90 min Scan# 1498
Delta R.T. -0.01 min
Lab File: BF114656.D
Acq: 30 May 2019 13:08

Instrument :
BNA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
200	100		
173	25.1	7.9	47.9
215	47.7	27.8	67.8

Manual Integrations
APPROVED

mohammad
6/3/2019 8:47:03 AM

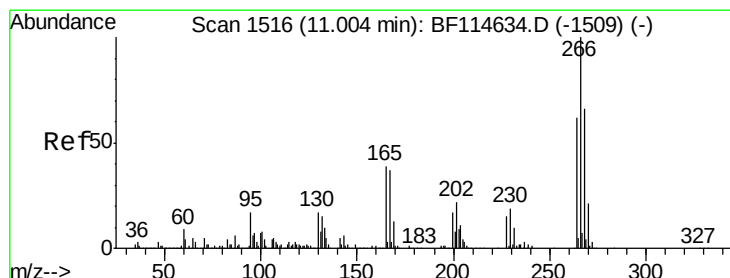
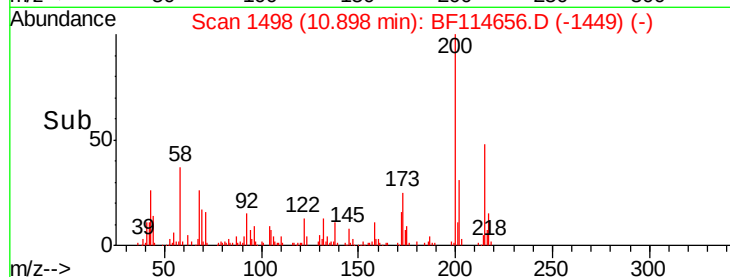
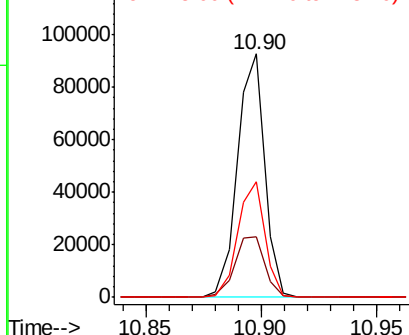


Abundance

Ion 200.00 (199.70 to 200.70): E

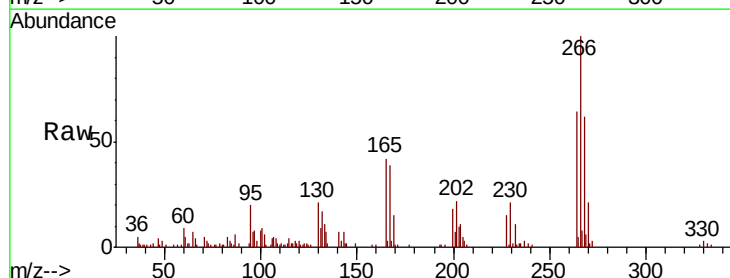
Ion 173.00 (172.70 to 173.70): E

Ion 215.00 (214.70 to 215.70): E



#70
Pentachlorophenol
Concen: 4.555 ng
RT: 11.00 min Scan# 1515
Delta R.T. -0.01 min
Lab File: BF114656.D
Acq: 30 May 2019 13:08

Tgt Ion	Ratio	Lower	Upper
266	100		
268	61.8	52.8	79.2
264	63.5	49.9	74.9

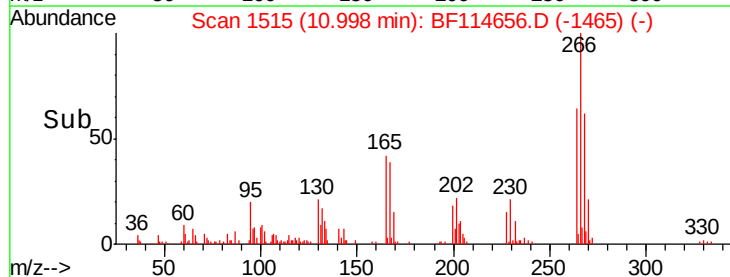
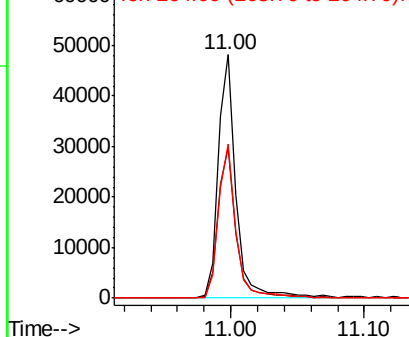


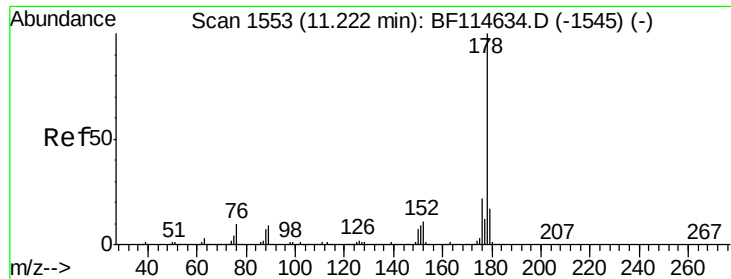
Abundance

Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E





#71

Phenanthrene

Concen: 6.076 ng

RT: 11.22 min Scan# 1552

Delta R.T. -0.01 min

Lab File: BF114656.D

Acq: 30 May 2019 13:08

Instrument :

BNA_F

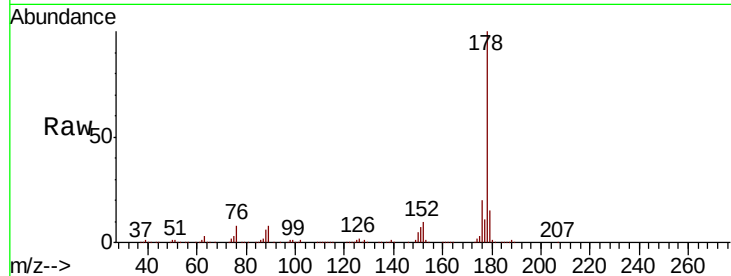
ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

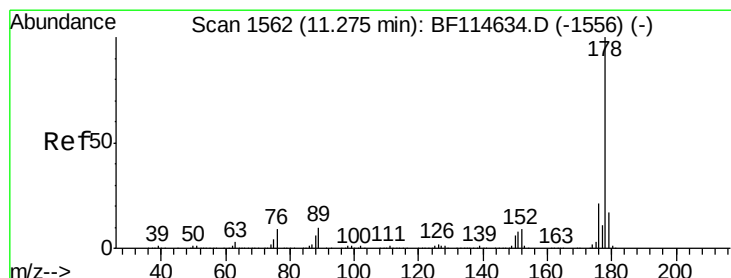
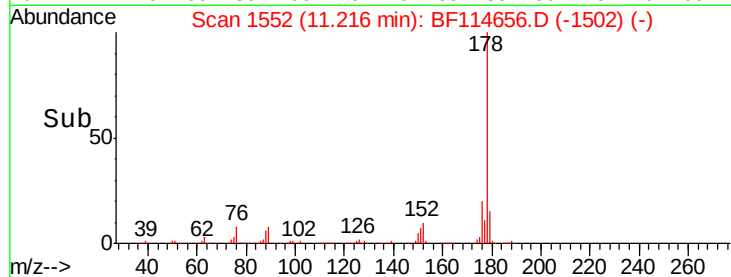
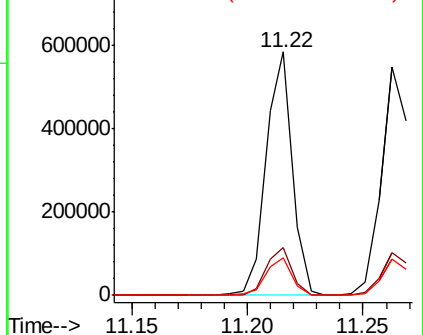
Tot Ion:	178	Resp:	461369
Ion Ratio	Lower	Upper	
178	100		
176	19.8	17.2	25.8
179	15.2	13.9	20.9

Manual Integrations
APPROVED

mohammad
6/3/2019 8:47:03 AM



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



#72

Anthracene

Concen: 6.069 ng

RT: 11.26 min Scan# 1560

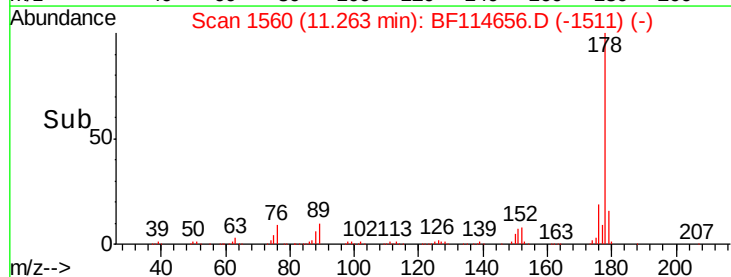
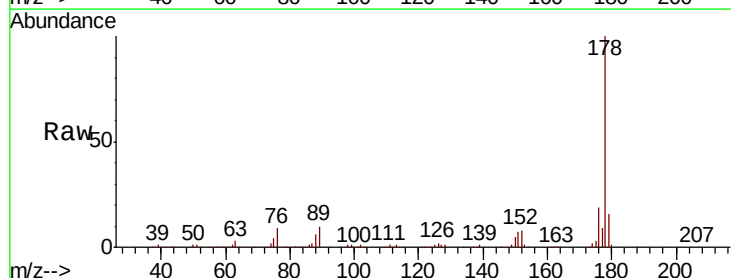
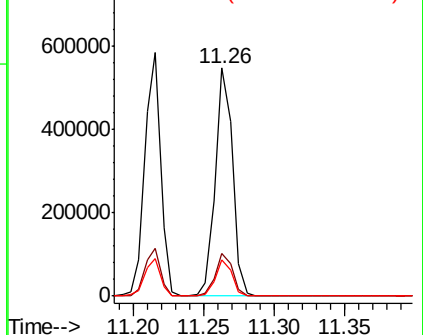
Delta R.T. -0.01 min

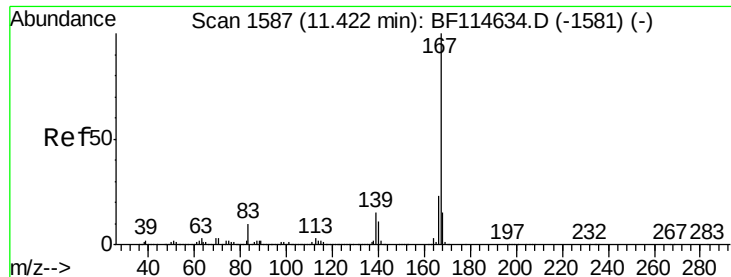
Lab File: BF114656.D

Acq: 30 May 2019 13:08

Tgt Ion:	178	Resp:	466423
Ion Ratio	Lower	Upper	
178	100		
176	18.9	16.6	24.8
179	15.7	13.4	20.0

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





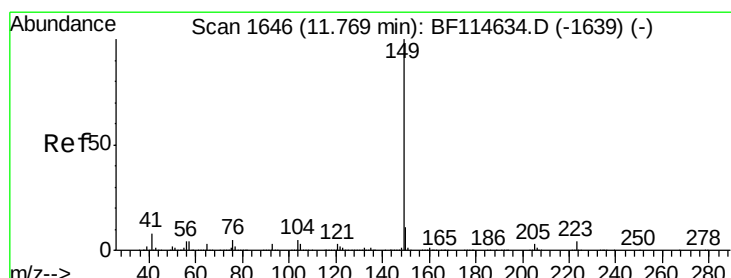
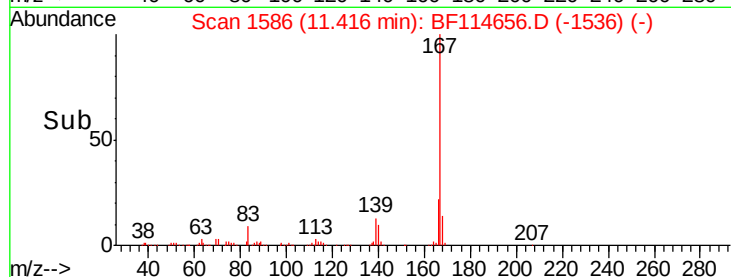
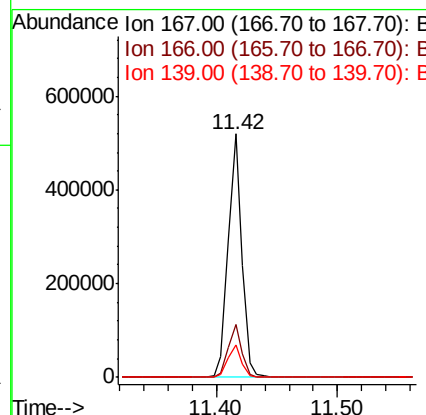
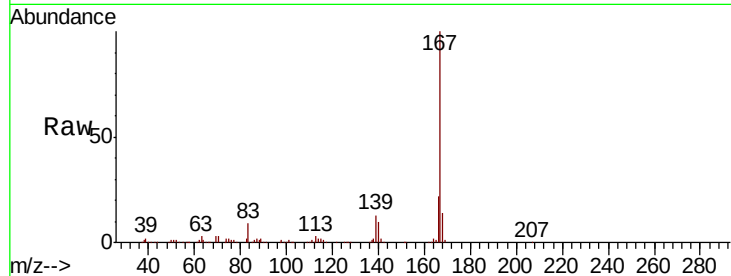
#73
 Carbazole
 Concen: 6.000 ng
 RT: 11.42 min Scan# 1586
 Delta R.T. -0.01 min
 Lab File: BF114656.D
 Acq: 30 May 2019 13:08

Instrument :
 BNA_F
 ClientSampleId :
 LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
167	100		
166	21.8	18.7	28.1
139	13.4	11.8	17.8

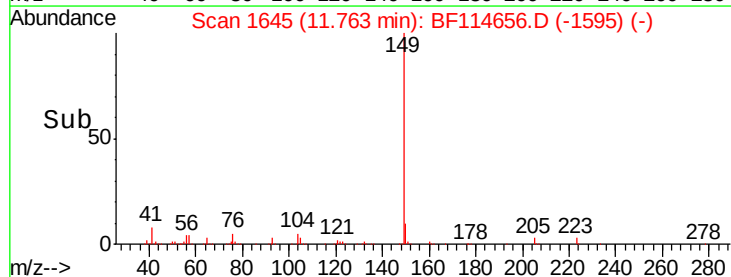
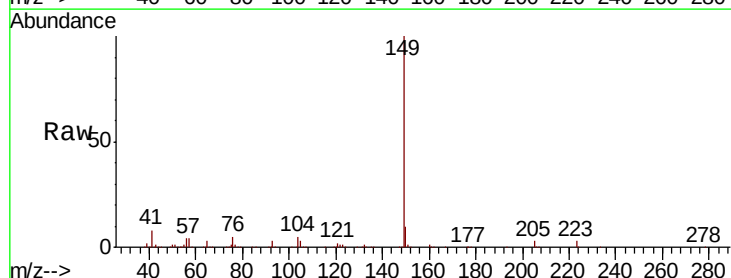
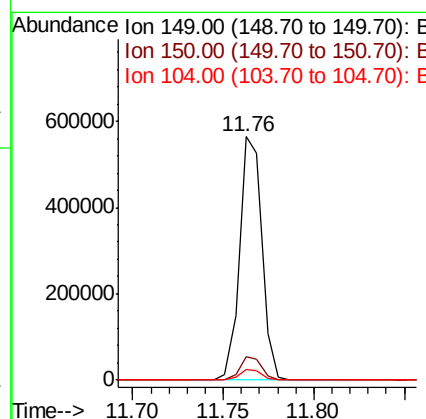
Manual Integrations
 APPROVED

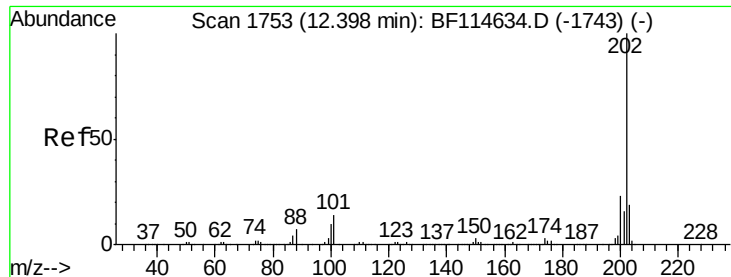
mohammad
 6/3/2019 8:47:03 AM



#74
 Di-n-butylphthalate
 Concen: 5.895 ng
 RT: 11.76 min Scan# 1645
 Delta R.T. -0.01 min
 Lab File: BF114656.D
 Acq: 30 May 2019 13:08

Tgt Ion	Ratio	Lower	Upper
149	100		
150	9.5	8.6	12.8
104	4.6	4.3	6.5





#75

Fluoranthene

Concen: 5.878 ng

RT: 12.39 min Scan# 1752

Delta R.T. -0.01 min

Lab File: BF114656.D

Acq: 30 May 2019 13:08

Instrument :

BNA_F

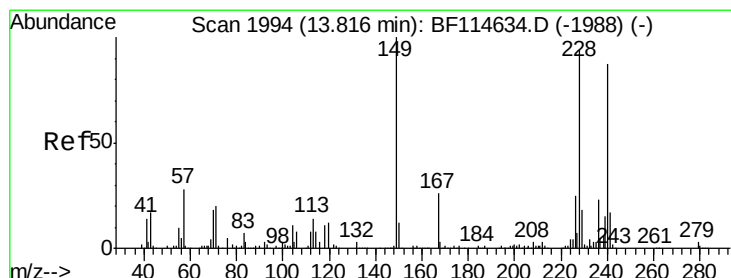
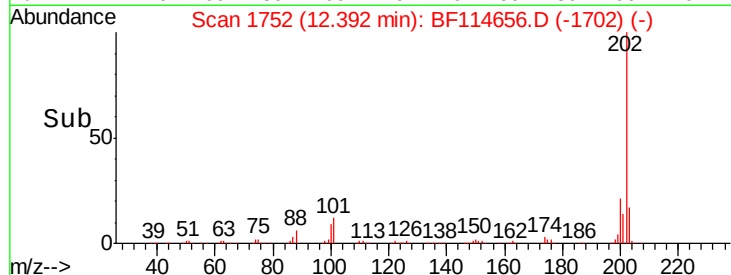
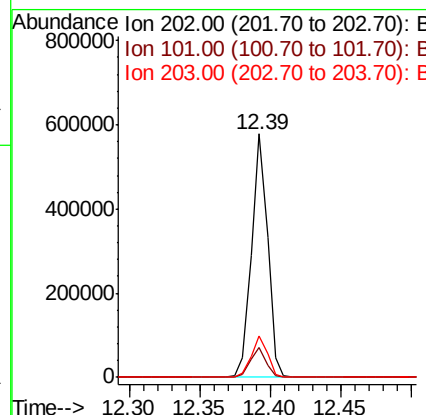
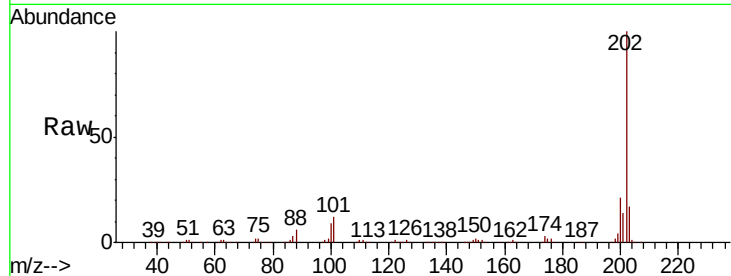
ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Resp	Lower	Upper
202	100	462194		
101	12.1	0.0	33.9	
203	17.0	0.0	39.1	

Manual Integrations
APPROVED

mohammad
6/3/2019 8:47:03 AM



#76

Chrysene-d12

Concen: 20.000 ng

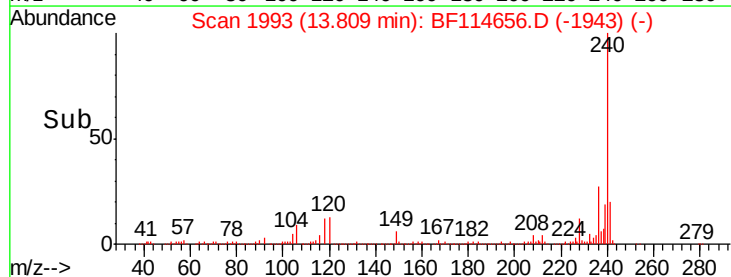
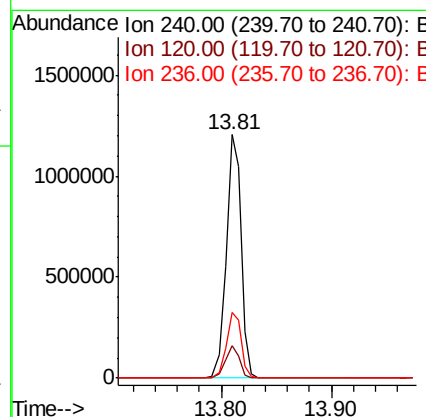
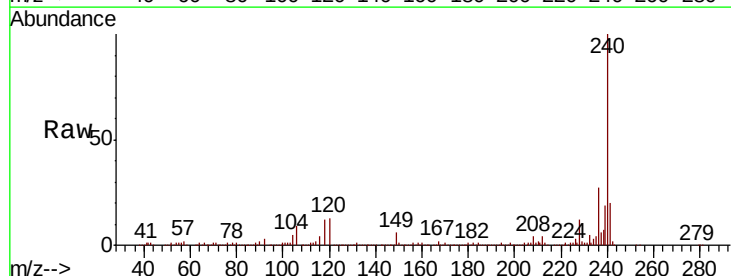
RT: 13.81 min Scan# 1993

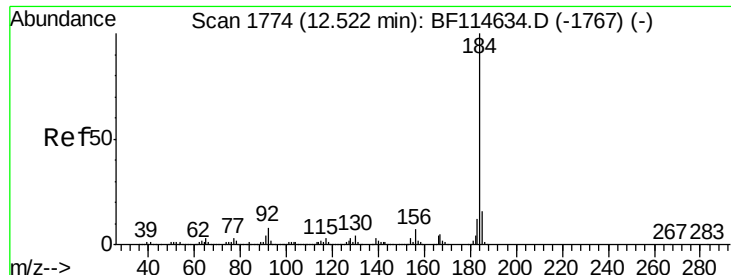
Delta R.T. -0.01 min

Lab File: BF114656.D

Acq: 30 May 2019 13:08

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	1126995		
120	13.5	11.2	16.8	
236	26.9	21.2	31.8	





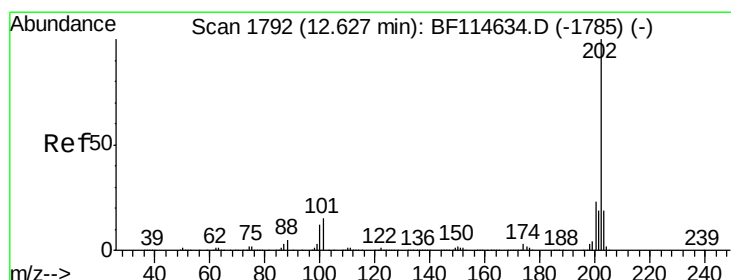
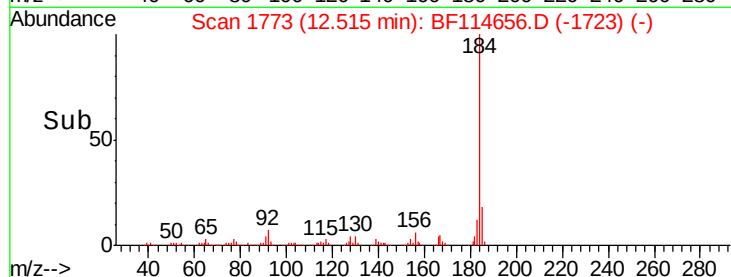
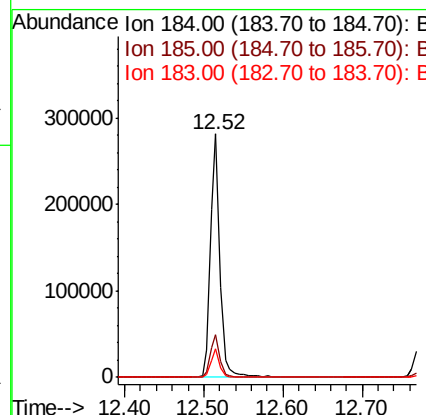
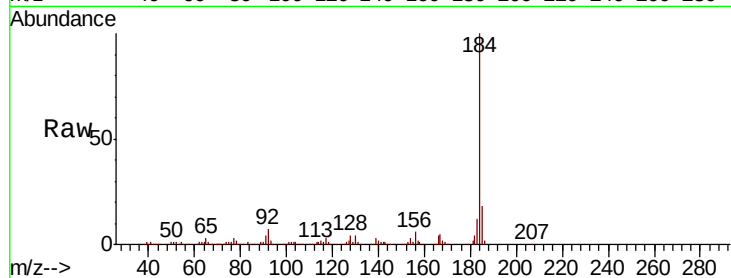
#77
Benzidine
Concen: 5.124 ng
RT: 12.52 min Scan# 1773
Delta R.T. -0.01 min
Lab File: BF114656.D
Acq: 30 May 2019 13:08

Instrument :
BNA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
184	100		
185	17.7	12.6	18.8
183	11.8	9.4	14.2

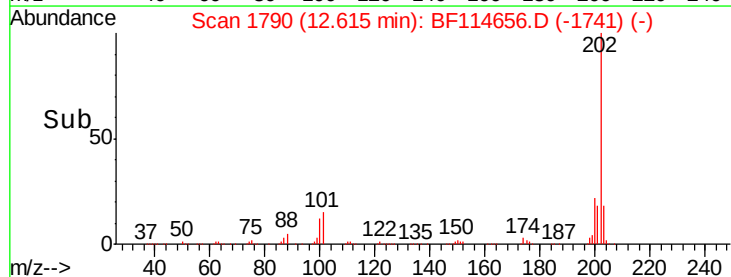
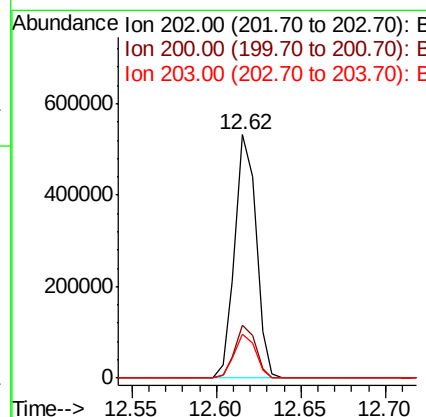
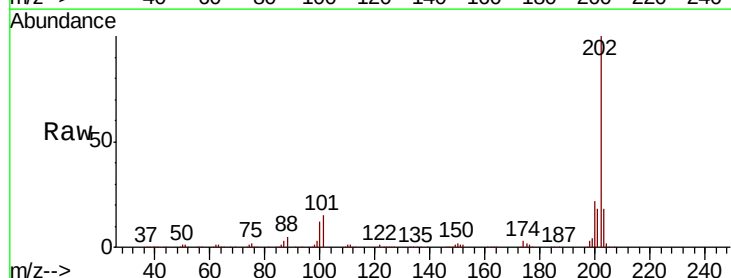
Manual Integrations
APPROVED

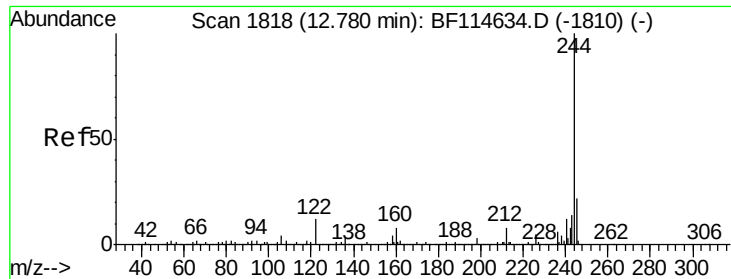
mohammad
6/3/2019 8:47:03 AM



#78
Pyrene
Concen: 4.915 ng
RT: 12.62 min Scan# 1790
Delta R.T. -0.01 min
Lab File: BF114656.D
Acq: 30 May 2019 13:08

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.8	18.6	28.0
203	18.0	15.4	23.2





#79

Terphenyl-d14

Concen: 66.616 ng

RT: 12.78 min Scan# 1818

Delta R.T. -0.00 min

Lab File: BF114656.D

Acq: 30 May 2019 13:08

Instrument :

BNA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion:244 Resp: 3993089

Ion Ratio Lower Upper

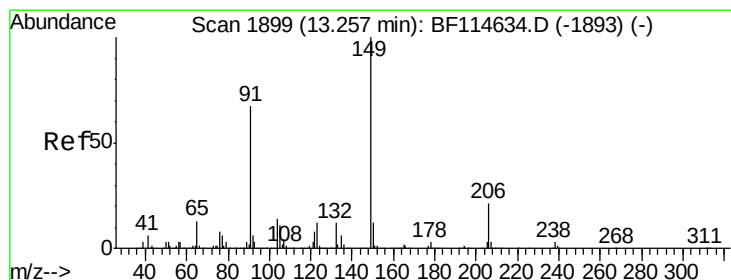
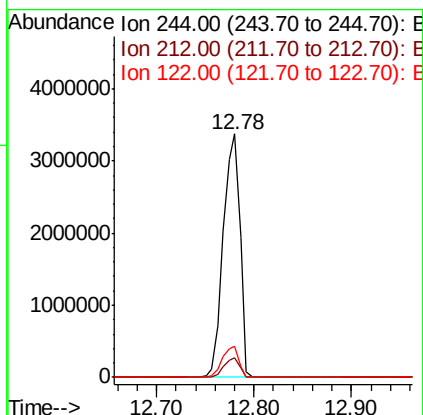
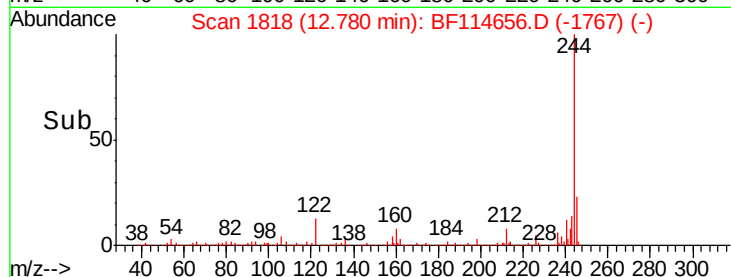
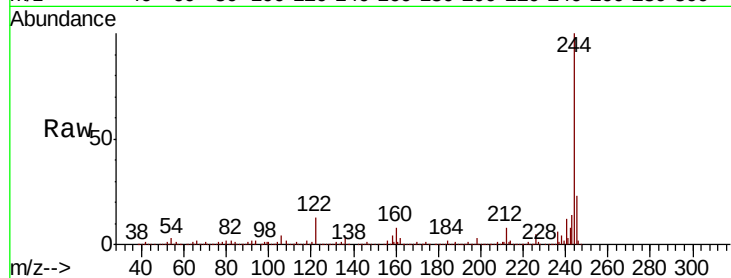
244 100

212 8.0 6.1 9.1

122 12.5 9.8 14.8

Manual Integrations
APPROVED

mohammad
6/3/2019 8:47:03 AM



#80

Butylbenzylphthalate

Concen: 3.921 ng

RT: 13.25 min Scan# 1898

Delta R.T. -0.01 min

Lab File: BF114656.D

Acq: 30 May 2019 13:08

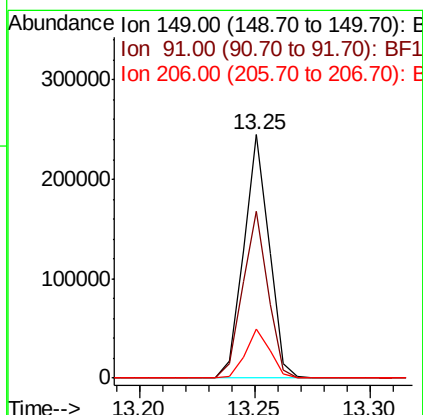
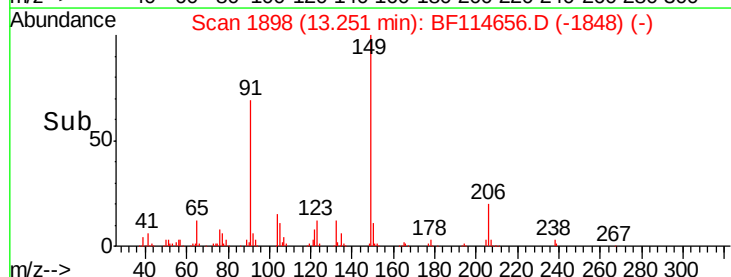
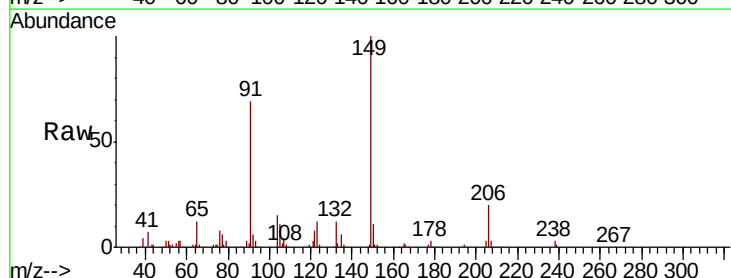
Tgt Ion:149 Resp: 187848

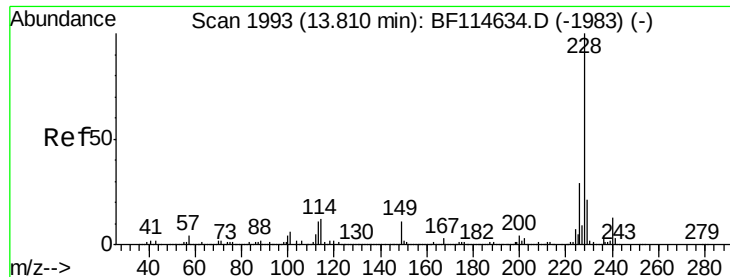
Ion Ratio Lower Upper

149 100

91 68.6 53.8 80.8

206 20.1 16.9 25.3





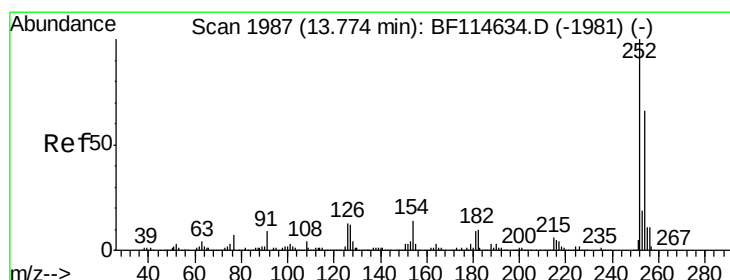
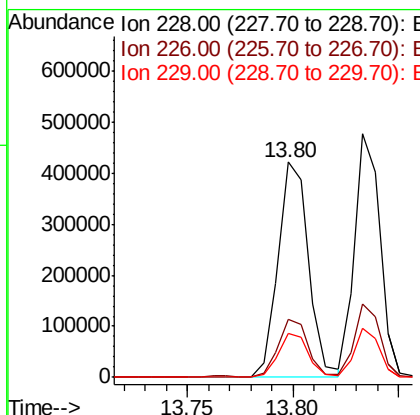
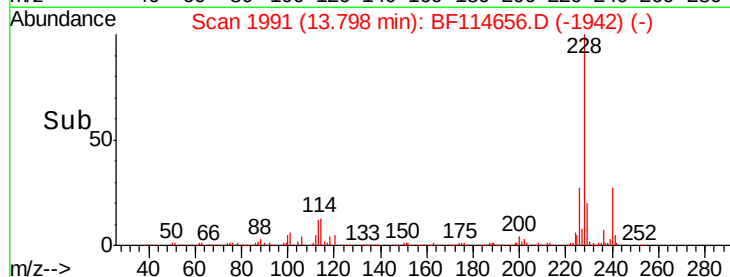
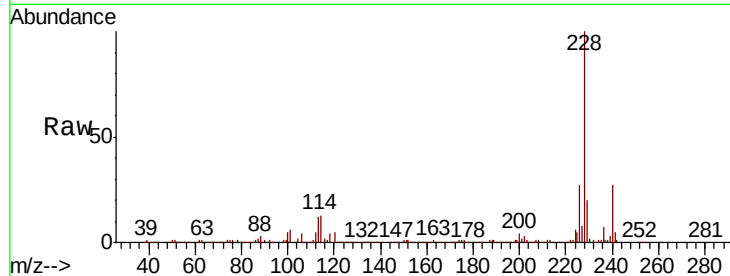
#81
Benzo(a)anthracene
Concen: 4.920 ng
RT: 13.80 min Scan# 1991
Delta R.T. -0.01 min
Lab File: BF114656.D
Acq: 30 May 2019 13:08

Instrument :
BNA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
228	100		
226	26.7	23.0	34.6
229	20.4	17.0	25.4

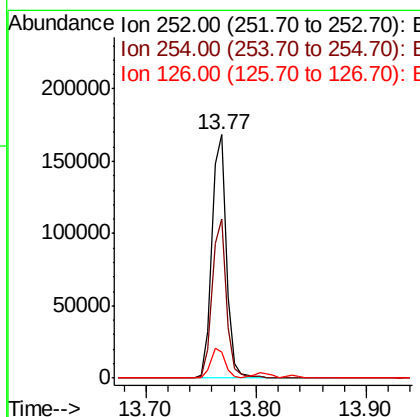
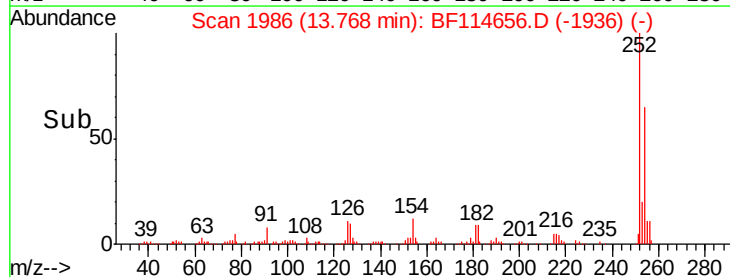
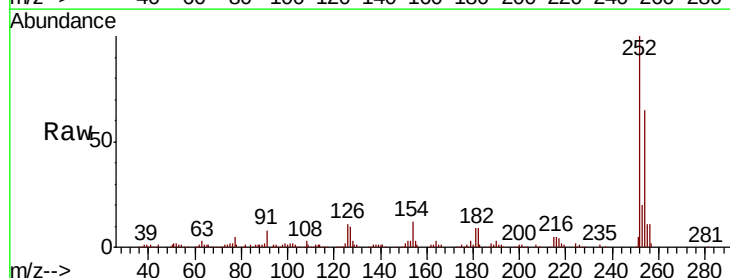
Manual Integrations
APPROVED

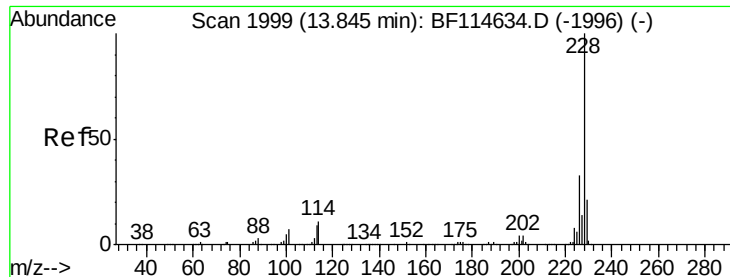
mohammad
6/3/2019 8:47:03 AM



#82
3,3'-Dichlorobenzidine
Concen: 4.527 ng
RT: 13.77 min Scan# 1986
Delta R.T. -0.01 min
Lab File: BF114656.D
Acq: 30 May 2019 13:08

Tgt Ion	Ratio	Lower	Upper
252	100		
254	65.1	53.1	79.7
126	10.6	10.2	15.2





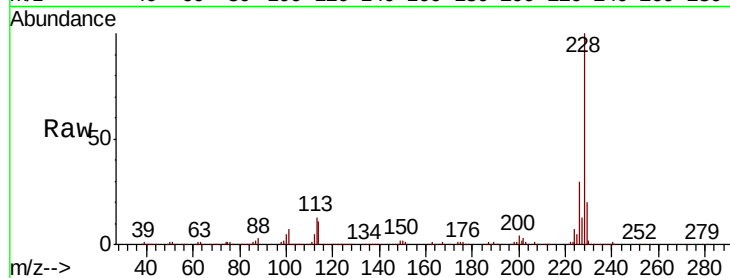
#83
Chrysene
Concen: 4.898 ng
RT: 13.83 min Scan# 1997
Delta R.T. -0.01 min
Lab File: BF114656.D
Acq: 30 May 2019 13:08

Instrument :
BNA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.1	26.4	39.6
229	19.9	17.1	25.7

Manual Integrations
APPROVED

mohammad
6/3/2019 8:47:03 AM

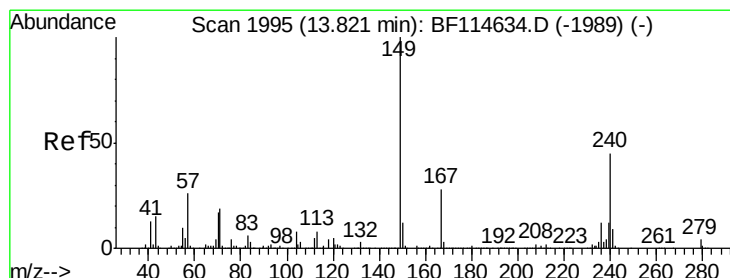
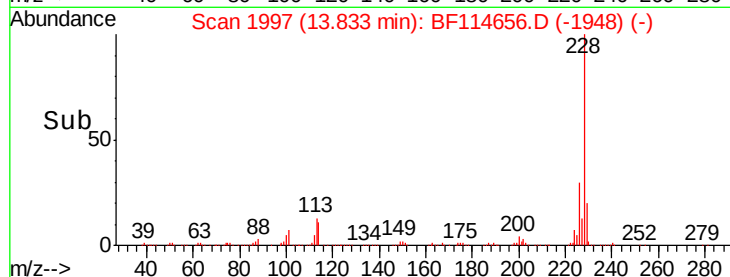
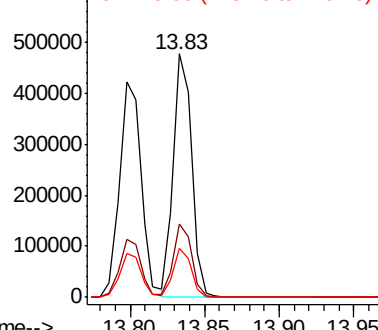


Abundance

Ion 228.00 (227.70 to 228.70): E

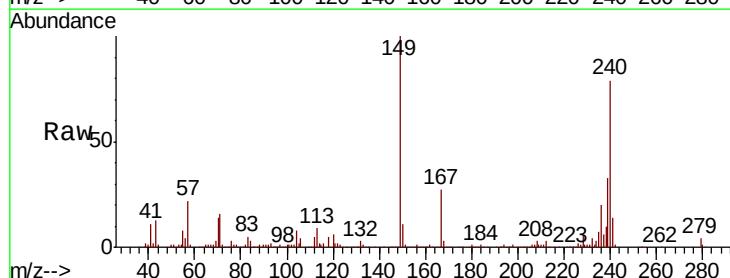
Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#84
Bis(2-ethylhexyl)phthalate
Concen: 4.527 ng
RT: 13.82 min Scan# 1995
Delta R.T. -0.00 min
Lab File: BF114656.D
Acq: 30 May 2019 13:08

Tgt Ion	Ratio	Lower	Upper
149	100		
167	27.1	22.6	33.8
279	4.1	3.0	4.4

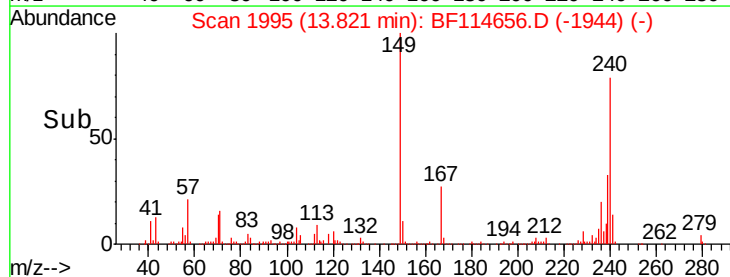
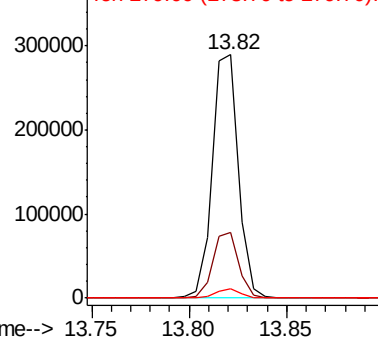


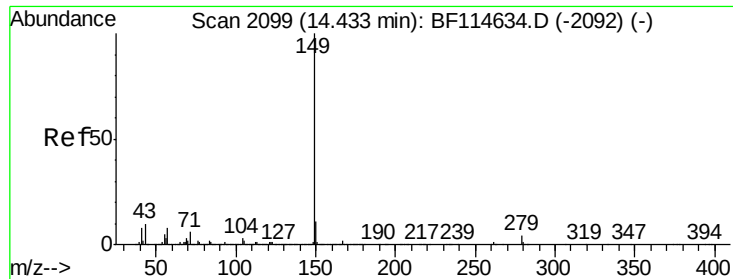
Abundance

Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#85

Di-n-octyl phthalate

Concen: 4.343 ng

RT: 14.43 min Scan# 2098

Delta R.T. -0.01 min

Lab File: BF114656.D

Acq: 30 May 2019 13:08

Instrument :

BNA_F

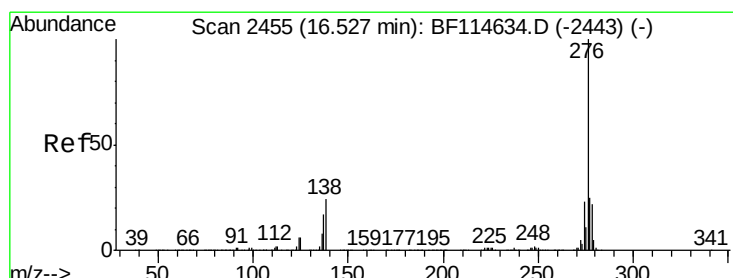
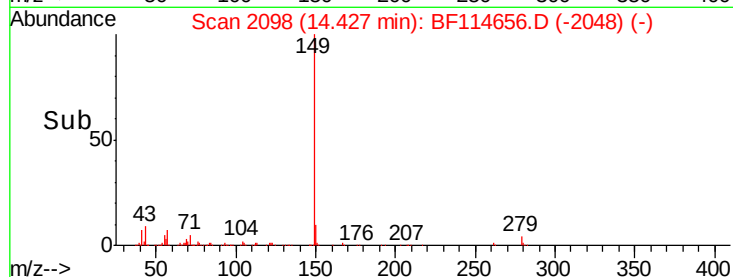
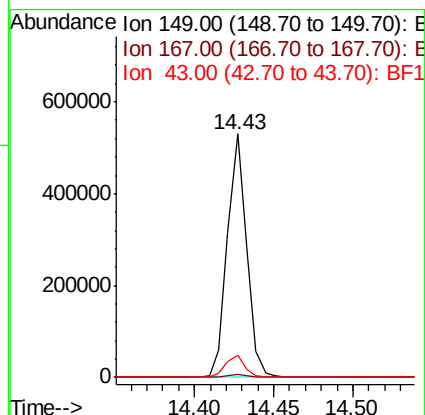
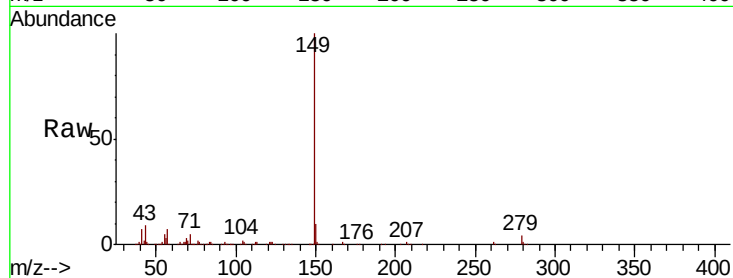
ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion:	149	Resp:	446956
Ion Ratio	Lower	Upper	
149	100		
167	1.5	1.3	1.9
43	9.3	8.0	12.0

Manual Integrations
APPROVED

mohammad
6/3/2019 8:47:03 AM



#86

Indeno(1,2,3-cd)pyrene

Concen: 4.517 ng

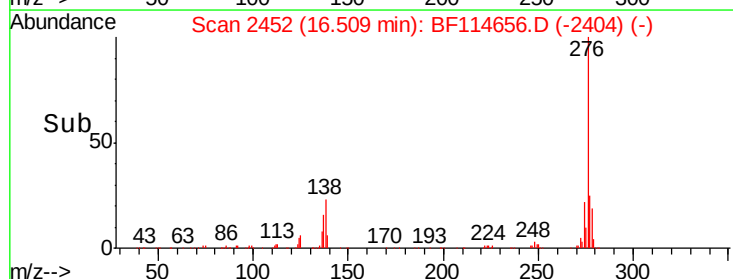
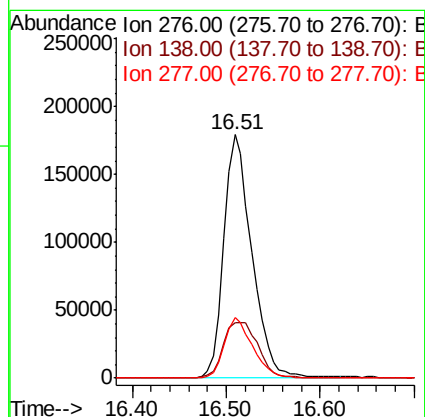
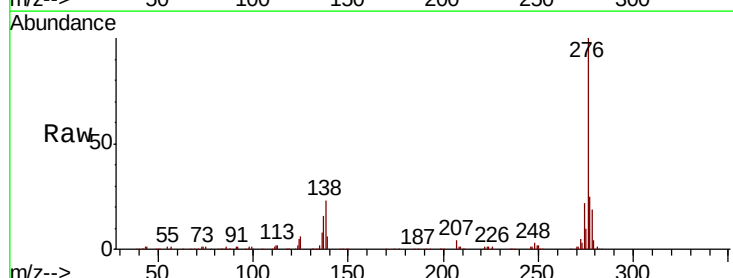
RT: 16.51 min Scan# 2452

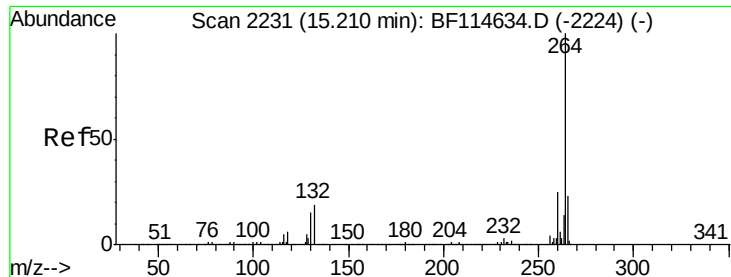
Delta R.T. -0.02 min

Lab File: BF114656.D

Acq: 30 May 2019 13:08

Tgt Ion:	276	Resp:	374317
Ion Ratio	Lower	Upper	
276	100		
138	28.3	23.0	34.6
277	25.3	20.5	30.7





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.20 min Scan# 2230

Delta R.T. -0.01 min

Lab File: BF114656.D

Acq: 30 May 2019 13:08

Instrument :

BNA_F

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion:264 Resp: 1192429

Ion Ratio Lower Upper

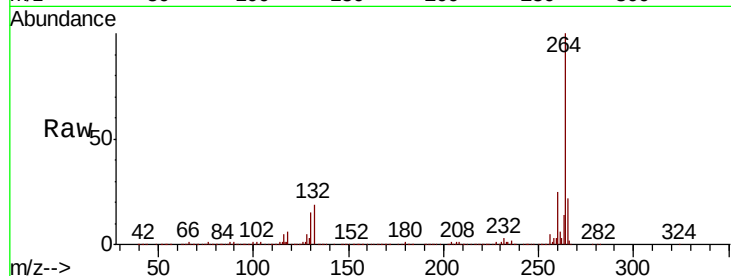
264 100

260 25.4 19.7 29.5

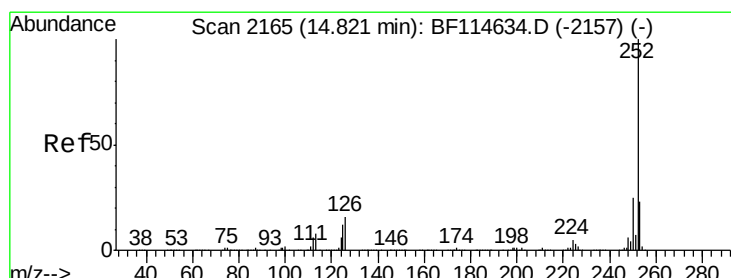
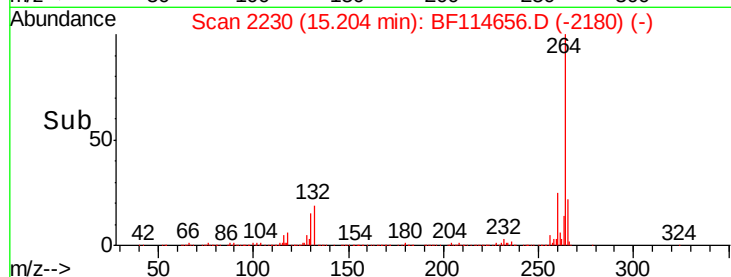
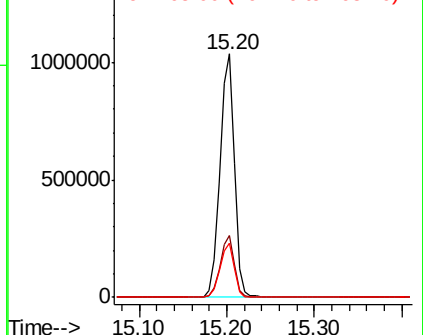
265 22.5 18.1 27.1

Manual Integrations
APPROVED

mohammad
6/3/2019 8:47:03 AM



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



#88

Benzo(b)fluoranthene

Concen: 5.276 ng

RT: 14.81 min Scan# 2163

Delta R.T. -0.01 min

Lab File: BF114656.D

Acq: 30 May 2019 13:08

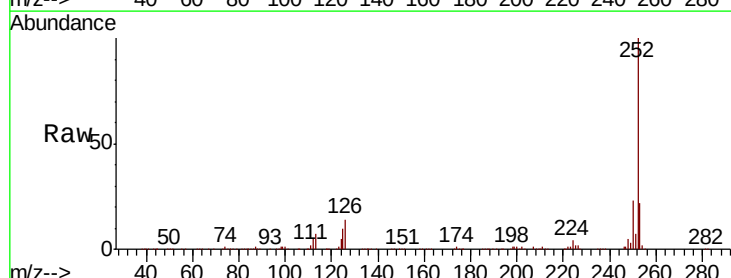
Tgt Ion:252 Resp: 396279

Ion Ratio Lower Upper

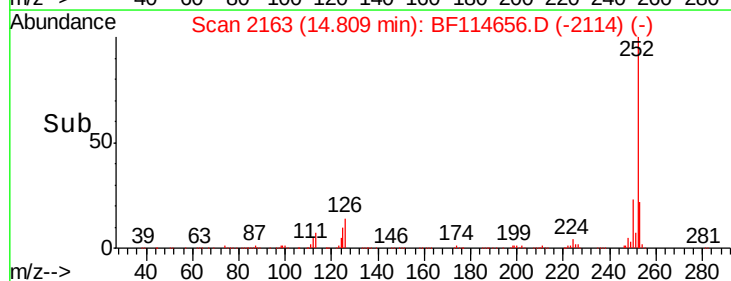
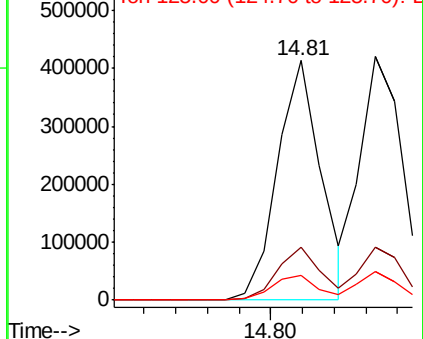
252 100

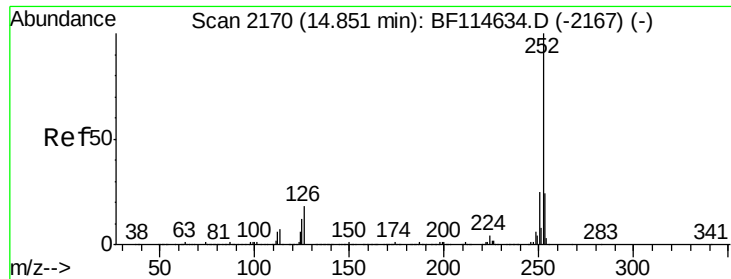
253 21.9 18.7 28.1

125 10.3 9.4 14.2



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





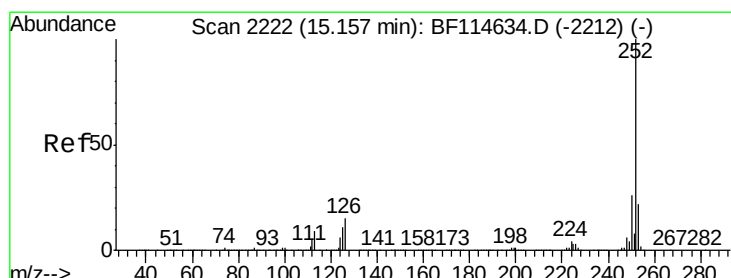
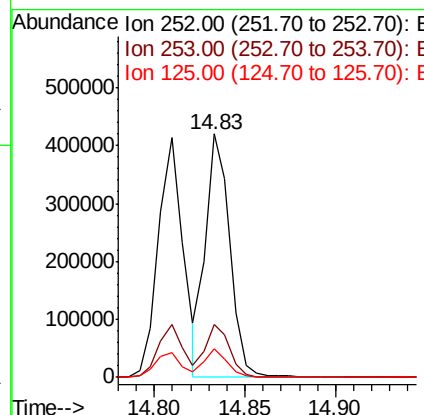
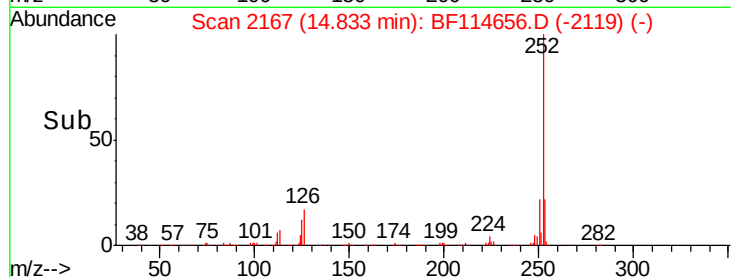
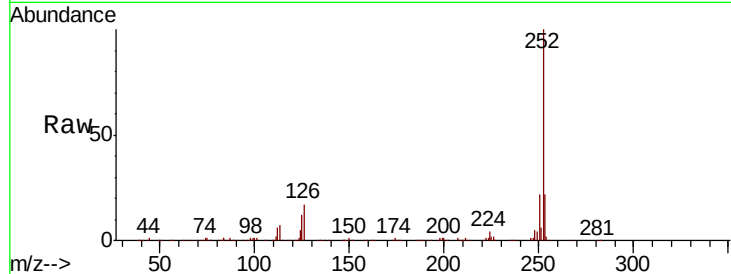
#89
Benzo(k)fluoranthene
Concen: 5.988 ng
RT: 14.83 min Scan# 2167
Delta R.T. -0.02 min
Lab File: BF114656.D
Acq: 30 May 2019 13:08

Instrument :
BNA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
252	100		
253	21.6	18.9	28.3
125	11.9	9.5	14.3

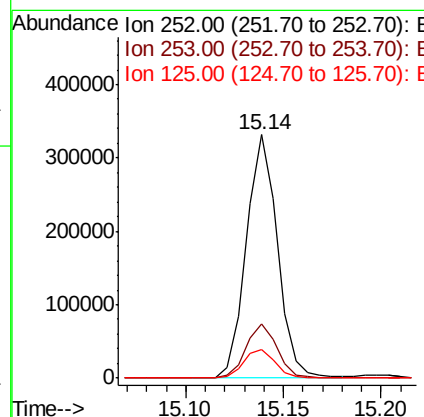
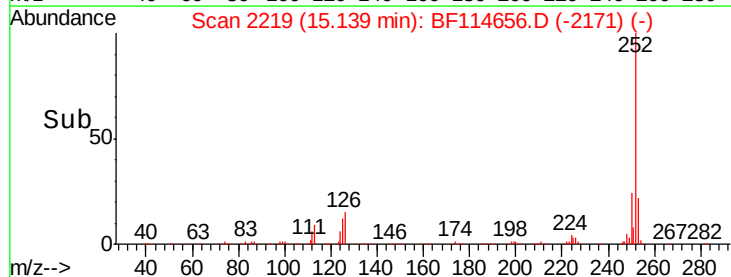
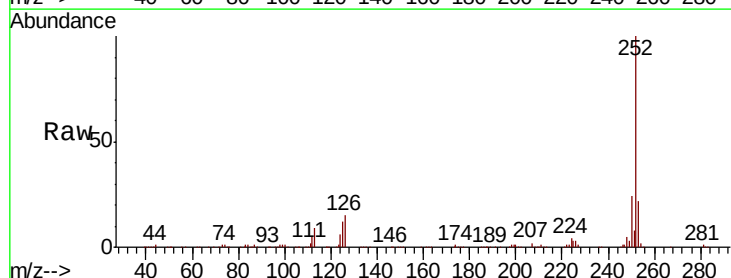
Manual Integrations
APPROVED

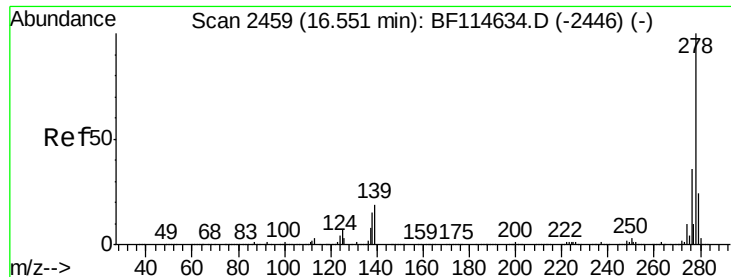
mohammad
6/3/2019 8:47:03 AM



#90
Benzo(a)pyrene
Concen: 5.571 ng
RT: 15.14 min Scan# 2219
Delta R.T. -0.02 min
Lab File: BF114656.D
Acq: 30 May 2019 13:08

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.1	18.0	27.0
125	11.7	9.2	13.8





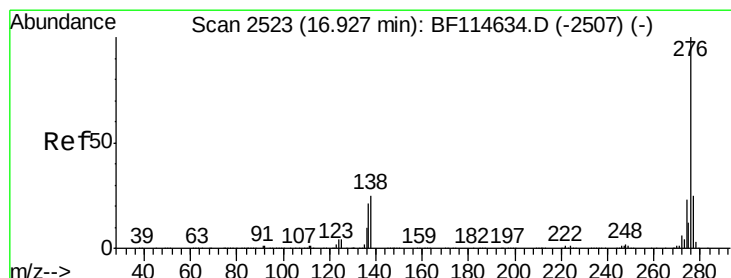
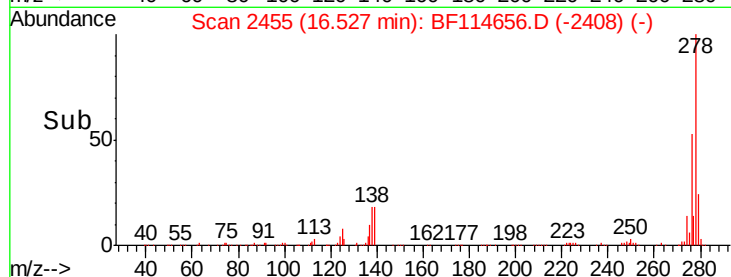
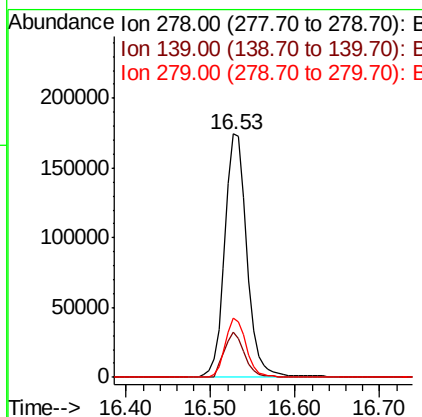
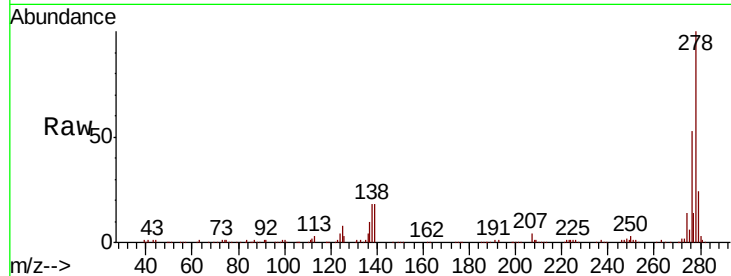
#91
Dibenzo(a,h)anthracene
Concen: 5.447 ng
RT: 16.53 min Scan# 2455
Delta R.T. -0.02 min
Lab File: BF114656.D
Acq: 30 May 2019 13:08

Instrument :
BNA_F
ClientSampleId :
LOD-MDL-SOIL-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
278	100		
139	18.3	14.9	22.3
279	24.2	19.5	29.3

Manual Integrations
APPROVED

mohammad
6/3/2019 8:47:03 AM



#92
Benzo(g,h,i)perylene
Concen: 5.297 ng
RT: 16.90 min Scan# 2519
Delta R.T. -0.02 min
Lab File: BF114656.D
Acq: 30 May 2019 13:08

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.5	19.7	29.5
138	23.6	19.8	29.8

