

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101922\
 Data File : BF130718.D
 Acq On : 19 Oct 2022 19:00
 Operator : CG\JU
 Sample : N5133-02MSD
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HAS-SOIL-1013MSD

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 10/20/2022
 Supervised By : mohammad ahmed 10/20/2022

Quant Time: Oct 20 02:46:01 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101122.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 18 03:15:54 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.569	152	92798	20.000	ng	0.00
21) Naphthalene-d8	7.851	136	346757	20.000	ng	0.00
39) Acenaphthene-d10	9.604	164	169943	20.000	ng	0.00
64) Phenanthrene-d10	11.080	188	348606	20.000	ng	0.00
76) Chrysene-d12	13.716	240	173110	20.000	ng	0.00
86) Perylene-d12	15.086	264	140128	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.193	112	602214	116.976	ng	0.02
7) Phenol-d6	6.234	99	676190	104.468	ng	0.00
23) Nitrobenzene-d5	7.145	82	410511	64.628	ng	0.00
42) 2,4,6-Tribromophenol	10.392	330	249106	149.804	ng	0.00
45) 2-Fluorobiphenyl	8.928	172	908984	81.020	ng	-0.01
79) Terphenyl-d14	12.663	244	855844	82.056	ng	-0.01
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.305	88	101680	32.646	ng	# 85
3) Pyridine	2.963	79	161920	29.063	ng	96
4) n-Nitrosodimethylamine	2.887	42	107686	41.023	ng	94
6) Aniline	6.240	93	119831	15.464	ng	# 25
8) 2-Chlorophenol	6.363	128	281141	46.437	ng	98
9) Benzaldehyde	6.128	77	84751	20.841	ng	98
10) Phenol	6.245	94	281804	37.628	ng	80
11) bis(2-Chloroethyl)ether	6.316	93	277910	51.085	ng	96
12) 1,3-Dichlorobenzene	6.510	146	271382	40.939	ng	97
13) 1,4-Dichlorobenzene	6.587	146	294614	43.809	ng	98
14) 1,2-Dichlorobenzene	6.740	146	252695	40.347	ng	98
15) Benzyl Alcohol	6.740	79	180498	38.841	ng	97
16) 2,2'-oxybis(1-Chloropr...	6.857	45	277412	39.636	ng	# 43
17) 2-Methylphenol	6.851	107	212999	44.228	ng	# 92
18) Hexachloroethane	7.075	117	105472	41.458	ng	98
19) n-Nitroso-di-n-propyla...	6.998	70	181533	43.470	ng	98
20) 3+4-Methylphenols	7.010	107	284724	44.121	ng	# 80
22) Acetophenone	6.992	105	388983	46.763	ng	94
24) Nitrobenzene	7.163	77	240258	37.612	ng	97
25) Isophorone	7.404	82	494240	46.751	ng	99
26) 2-Nitrophenol	7.481	139	154639	49.364	ng	99
27) 2,4-Dimethylphenol	7.528	122	221306	50.687	ng	99
28) bis(2-Chloroethoxy)met...	7.616	93	282509	46.151	ng	99
29) 2,4-Dichlorophenol	7.728	162	215490	44.113	ng	97
30) 1,2,4-Trichlorobenzene	7.792	180	210404	39.953	ng	98
31) Naphthalene	7.875	128	757925	42.225	ng	99
32) Benzoic acid	7.698	122	113387	41.050	ng	96
33) 4-Chloroaniline	7.939	127	159227	22.900	ng	97
34) Hexachlorobutadiene	7.987	225	130948	40.062	ng	98
35) Caprolactam	8.322	113	52664m	35.832	ng	
36) 4-Chloro-3-methylphenol	8.439	107	206898	39.047	ng	97
37) 2-Methylnaphthalene	8.563	142	467765	41.411	ng	99
38) 1-Methylnaphthalene	8.663	142	491004	44.777	ng	99
40) 1,2,4,5-Tetrachloroben...	8.728	216	232498	50.425	ng	98
41) Hexachlorocyclopentadiene	8.710	237	106287	62.765	ng	98
43) 2,4,6-Trichlorophenol	8.857	196	147323	47.587	ng	100

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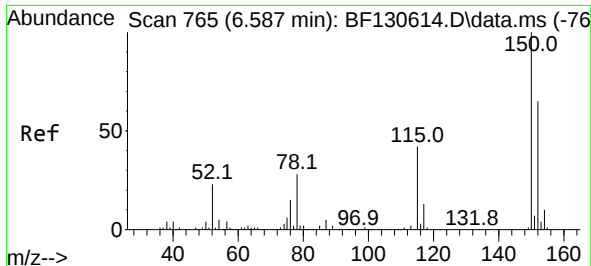
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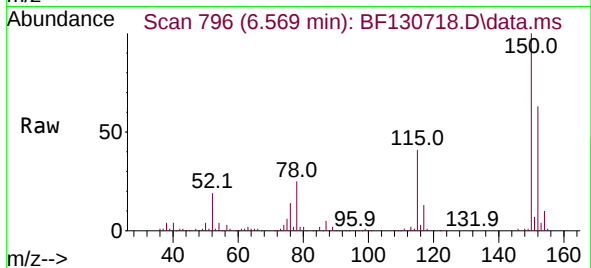
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	8.904	196	165753	48.685	ng	97
46) 1,1'-Biphenyl	9.028	154	576150	46.781	ng	99
47) 2-Chloronaphthalene	9.051	162	470991	46.791	ng	99
48) 2-Nitroaniline	9.163	65	161897	53.430	ng	92
49) Acenaphthylene	9.463	152	632417	41.932	ng	99
50) Dimethylphthalate	9.339	163	593670	50.465	ng	100
51) 2,6-Dinitrotoluene	9.410	165	112772	43.702	ng	# 86
52) Acenaphthene	9.633	154	385378	42.174	ng	99
53) 3-Nitroaniline	9.581	138	85570	30.251	ng	91
54) 2,4-Dinitrophenol	9.698	184	107872	81.909	ng	97
55) Dibenzofuran	9.810	168	601090	43.181	ng	99
56) 4-Nitrophenol	9.769	139	64247	41.193	ng	96
57) 2,4-Dinitrotoluene	9.816	165	151668	45.732	ng	# 74
58) Fluorene	10.151	166	549653	48.028	ng	98
59) 2,3,4,6-Tetrachlorophenol	9.939	232	117232	43.191	ng	96
60) Diethylphthalate	10.033	149	527247	44.920	ng	99
61) 4-Chlorophenyl-phenyle...	10.145	204	251339	48.577	ng	94
62) 4-Nitroaniline	10.192	138	123018	45.551	ng	97
63) Azobenzene	10.304	77	526756	47.648	ng	97
65) 4,6-Dinitro-2-methylph...	10.222	198	90741	41.653	ng	89
66) n-Nitrosodiphenylamine	10.269	169	469452	40.484	ng	99
67) 4-Bromophenyl-phenylether	10.628	248	166983	42.334	ng	96
68) Hexachlorobenzene	10.692	284	190284	42.675	ng	94
69) Atrazine	10.804	200	142811	45.227	ng	98
70) Pentachlorophenol	10.904	266	126143	72.688	ng	97
71) Phenanthrene	11.104	178	811164	41.999	ng	99
72) Anthracene	11.157	178	762866	40.443	ng	100
73) Carbazole	11.322	167	652906	38.790	ng	99
74) Di-n-butylphthalate	11.651	149	875277	42.930	ng	99
75) Fluoranthene	12.292	202	780299	42.036	ng	99
77) Benzidine	12.427	184	54193	12.385	ng	97
78) Pyrene	12.516	202	770781	51.611	ng	99
80) Butylbenzylphthalate	13.139	149	250816	43.676	ng	96
81) Benzo(a)anthracene	13.704	228	488986	41.921	ng	99
82) 3,3'-Dichlorobenzidine	13.674	252	123540	36.651	ng	# 95
83) Chrysene	13.739	228	458653	41.472	ng	99
84) Bis(2-ethylhexyl)phtha...	13.698	149	299592	43.033	ng	98
85) Di-n-octyl phthalate	14.310	149	400940	37.604	ng	99
87) Indeno(1,2,3-cd)pyrene	16.380	276	449029	42.813	ng	98
88) Benzo(b)fluoranthene	14.710	252	388166	43.746	ng	99
89) Benzo(k)fluoranthene	14.733	252	392540	43.447	ng	98
90) Benzo(a)pyrene	15.033	252	338833	45.881	ng	99
91) Dibenzo(a,h)anthracene	16.386	278	390281	45.397	ng	99
92) Benzo(g,h,i)perylene	16.768	276	389034	48.586	ng	97

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



#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.569 min Scan# 79
Delta R.T. -0.006 min
Lab File: BF130718.D
Acq: 19 Oct 2022 19:00

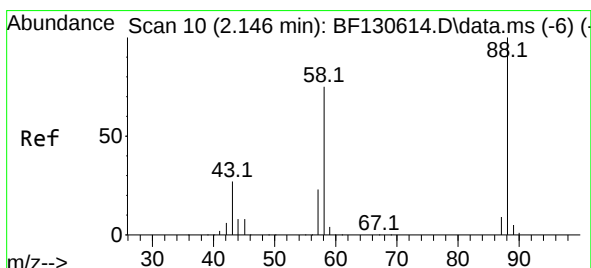
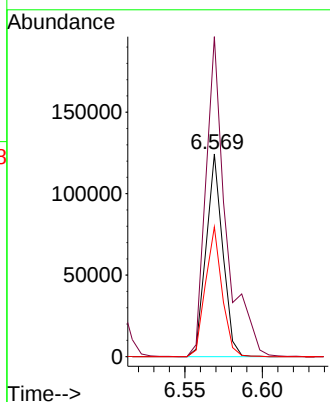
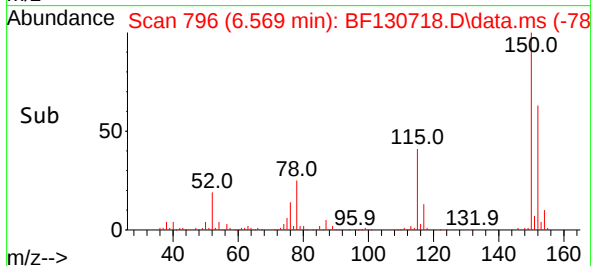
Instrument :
BNA_F
ClientSampleId :
HAS-SOIL-1013MSD



Tgt Ion:152 Resp: 92798
Ion Ratio Lower Upper
152 100
150 157.9 123.8 185.6
115 64.0 52.2 78.4

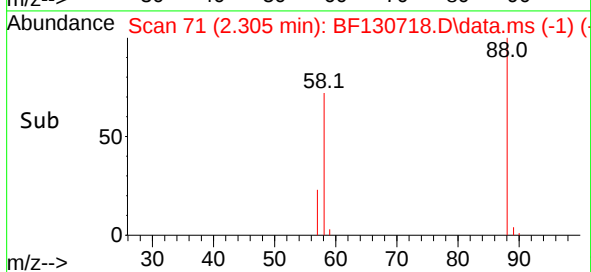
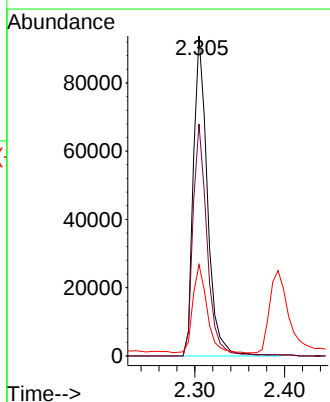
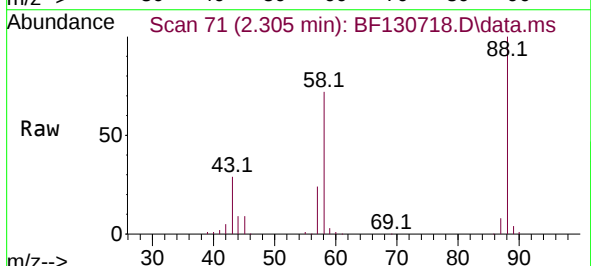
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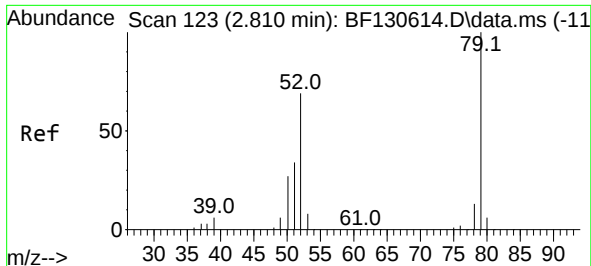
Reviewed By :Christian Giraldo 10/20/2022
Supervised By :mohammad ahmed 10/20/2022



#2
1,4-Dioxane
Concen: 32.646 ng
RT: 2.305 min Scan# 71
Delta R.T. 0.171 min
Lab File: BF130718.D
Acq: 19 Oct 2022 19:00

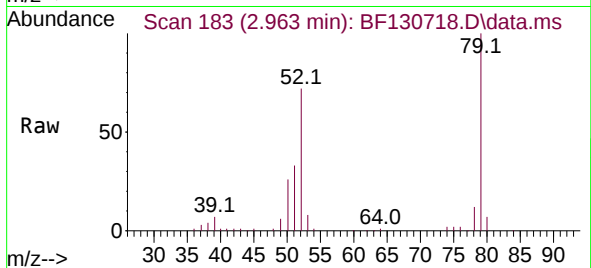
Tgt Ion: 88 Resp: 101680
Ion Ratio Lower Upper
88 100
58 72.4 58.8 88.2
43 0.0 22.2 33.4





#3
Pyridine
Concen: 29.063 ng
RT: 2.963 min Scan# 18
Delta R.T. 0.176 min
Lab File: BF130718.D
Acq: 19 Oct 2022 19:00

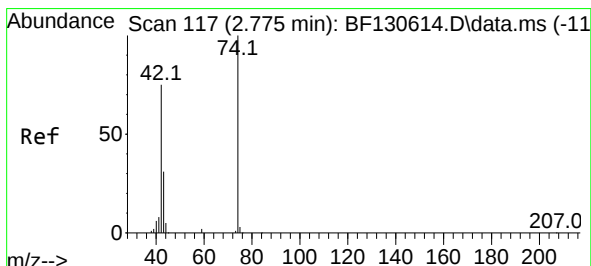
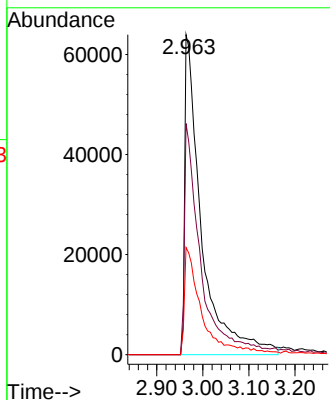
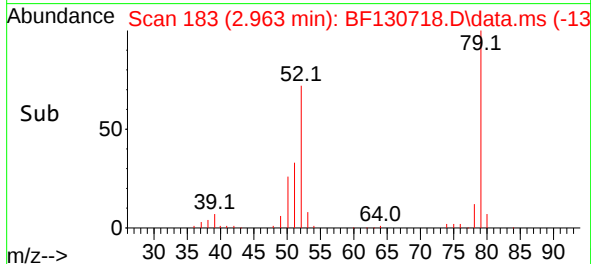
Instrument :
BNA_F
ClientSampleId :
HAS-SOIL-1013MSD



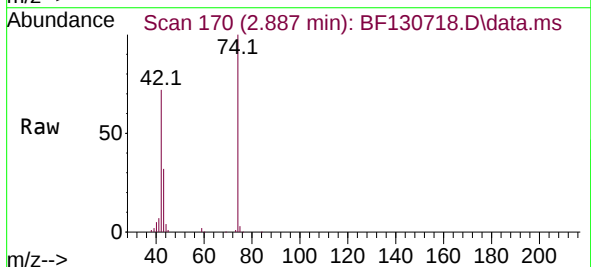
Tgt Ion: 79 Resp: 161920
Ion Ratio Lower Upper
79 100
52 72.2 54.8 82.2
51 33.5 27.4 41.2

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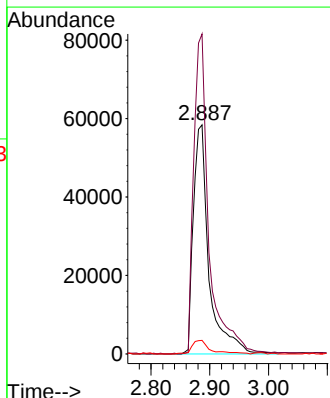
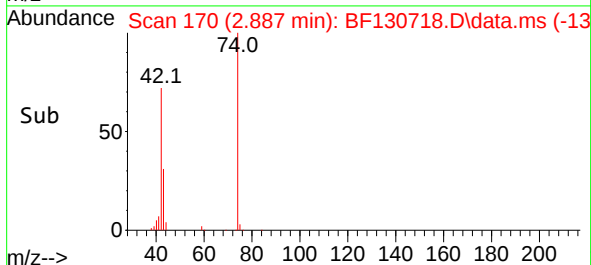
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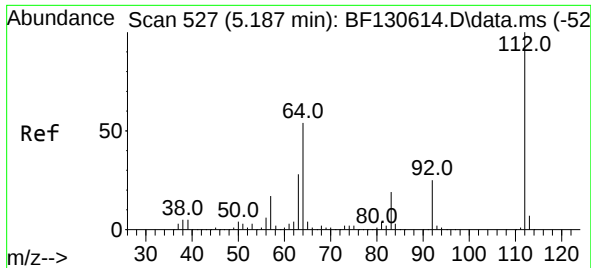


#4
n-Nitrosodimethylamine
Concen: 41.023 ng
RT: 2.887 min Scan# 170
Delta R.T. 0.129 min
Lab File: BF130718.D
Acq: 19 Oct 2022 19:00



Tgt Ion: 42 Resp: 107686
Ion Ratio Lower Upper
42 100
74 139.7 106.2 159.2
44 5.9 5.0 7.4





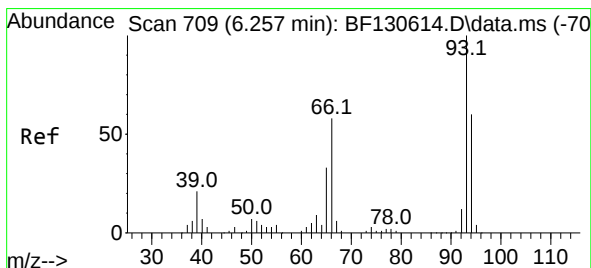
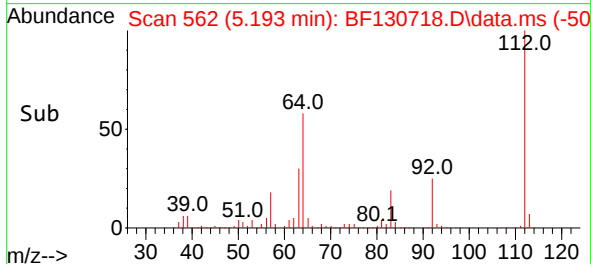
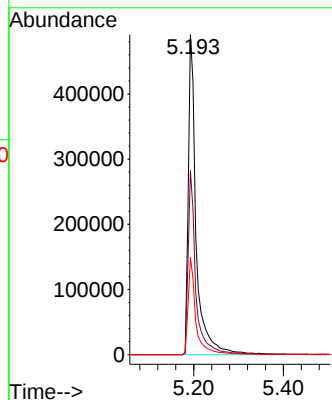
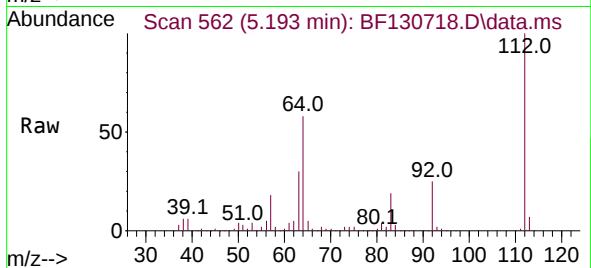
#5
2-Fluorophenol
Concen: 116.976 ng
RT: 5.193 min Scan# 50
Delta R.T. 0.024 min
Lab File: BF130718.D
Acq: 19 Oct 2022 19:00

Instrument :
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ClientSampleId :
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Tgt Ion:112 Resp: 602214
Ion Ratio Lower Upper
112 100
64 57.5 43.5 65.3
63 30.3 22.6 34.0

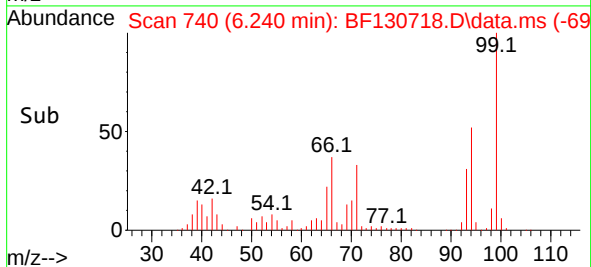
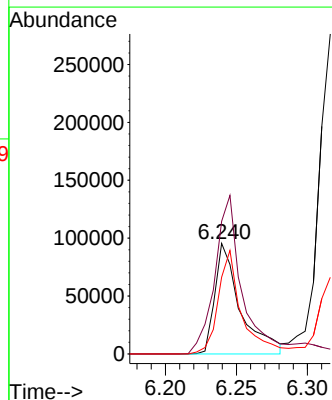
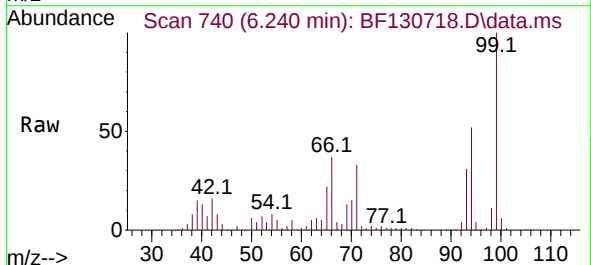
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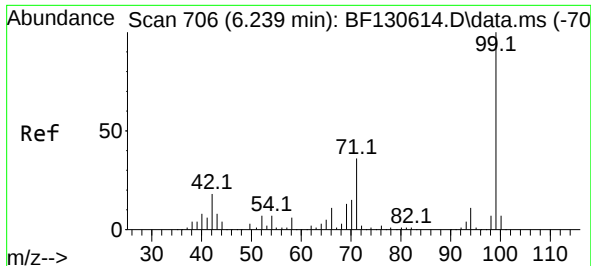
Reviewed By :Christian Giraldo 10/20/2022
Supervised By :mohammad ahmed 10/20/2022



#6
Aniline
Concen: 15.464 ng
RT: 6.240 min Scan# 740
Delta R.T. -0.006 min
Lab File: BF130718.D
Acq: 19 Oct 2022 19:00

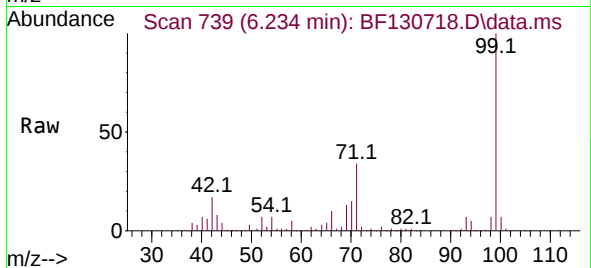
Tgt Ion: 93 Resp: 119831
Ion Ratio Lower Upper
93 100
66 120.0 47.4 71.0#
65 69.4 26.6 40.0#





#7
Phenol-d6
Concen: 104.468 ng
RT: 6.234 min Scan# 739
Delta R.T. 0.006 min
Lab File: BF130718.D
Acq: 19 Oct 2022 19:00

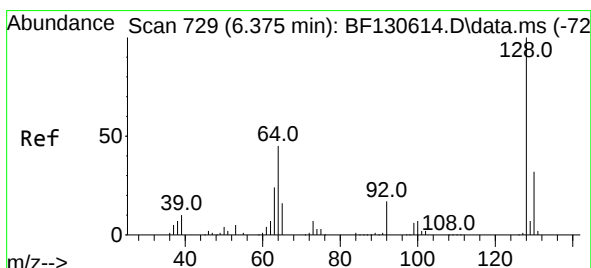
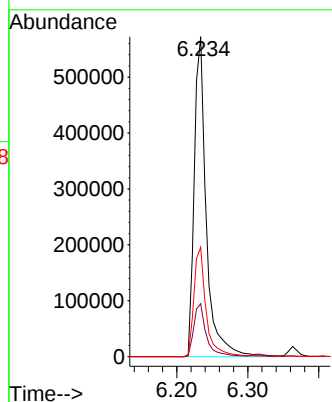
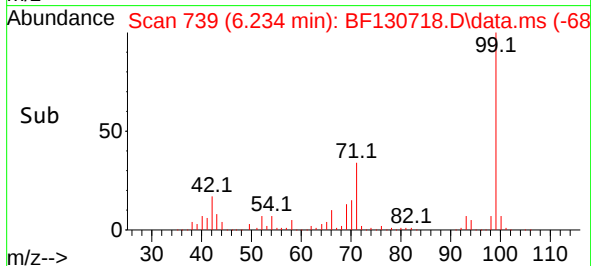
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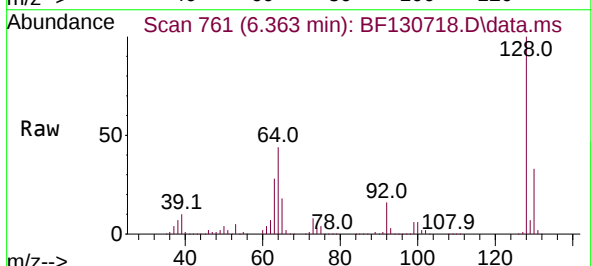
Tgt Ion: 99 Resp: 676190
Ion Ratio Lower Upper
99 100
42 16.5 14.0 21.0
71 34.2 28.8 43.2

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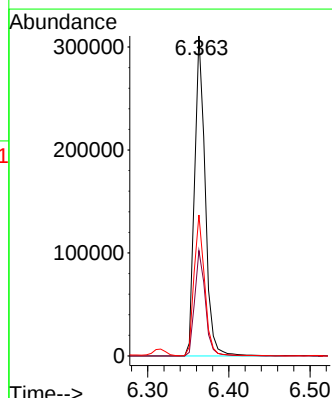
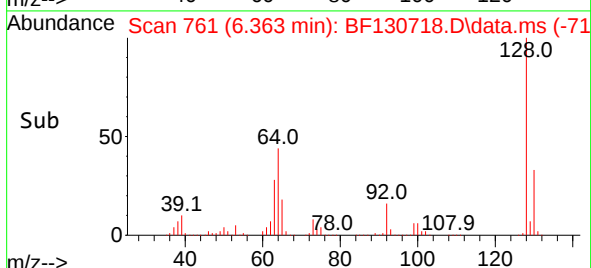
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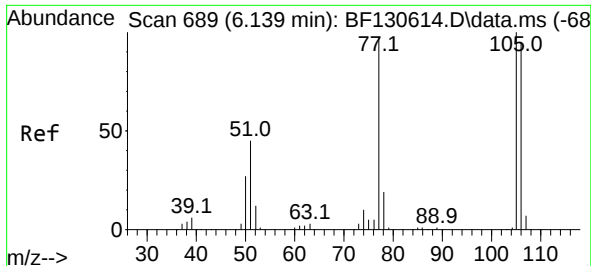


#8
2-Chlorophenol
Concen: 46.437 ng
RT: 6.363 min Scan# 761
Delta R.T. -0.000 min
Lab File: BF130718.D
Acq: 19 Oct 2022 19:00



Tgt Ion:128 Resp: 281141
Ion Ratio Lower Upper
128 100
130 33.0 12.4 52.4
64 44.0 25.9 65.9





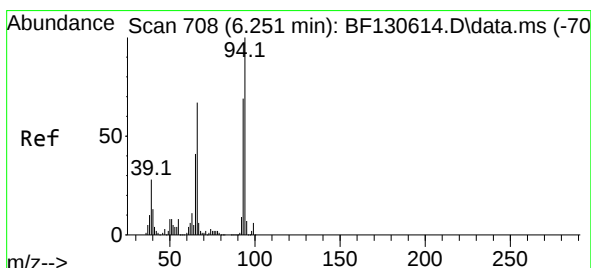
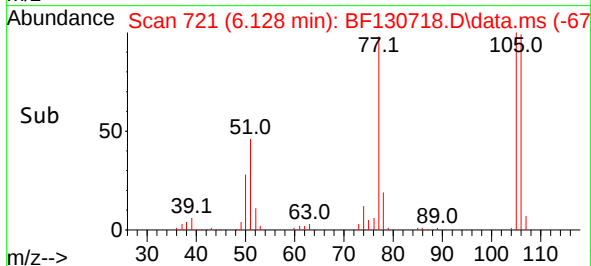
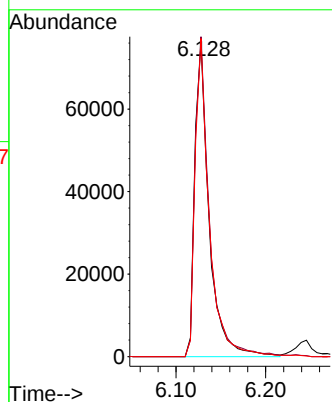
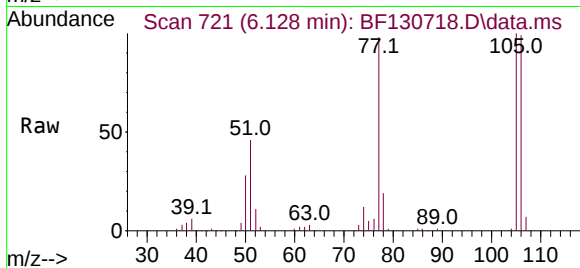
#9
Benzaldehyde
Concen: 20.841 ng
RT: 6.128 min Scan# 71
Delta R.T. -0.000 min
Lab File: BF130718.D
Acq: 19 Oct 2022 19:00

Instrument :
BNA_F
ClientSampleId :
HAS-SOIL-1013MSD

Tgt Ion: 77 Resp: 8475
Ion Ratio Lower Upper
77 100
105 101.9 83.0 123.0
106 101.4 77.8 117.8

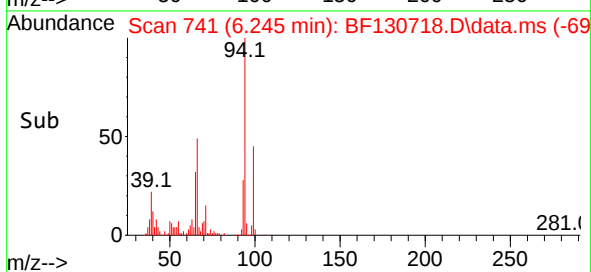
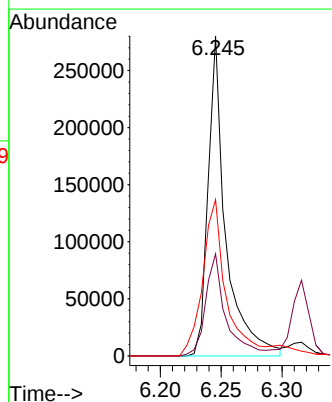
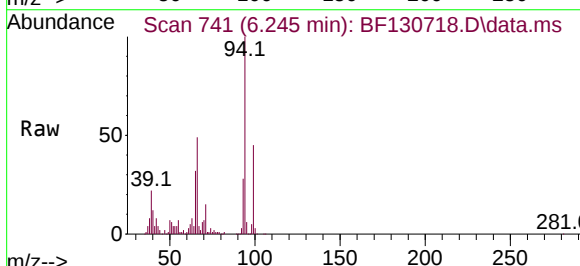
Manual Integrations
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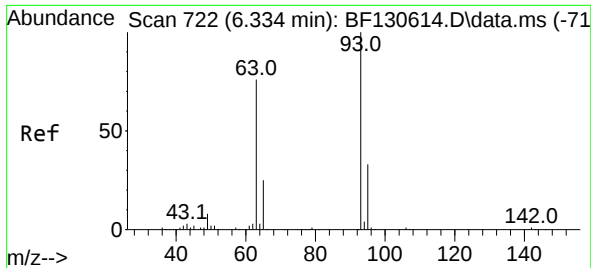
Reviewed By :Christian Giraldo 10/20/2022
Supervised By :mohammad ahmed 10/20/2022



#10
Phenol
Concen: 37.628 ng
RT: 6.245 min Scan# 741
Delta R.T. -0.000 min
Lab File: BF130718.D
Acq: 19 Oct 2022 19:00

Tgt Ion: 94 Resp: 281804
Ion Ratio Lower Upper
94 100
65 31.9 21.2 61.2
66 48.8 46.9 86.9





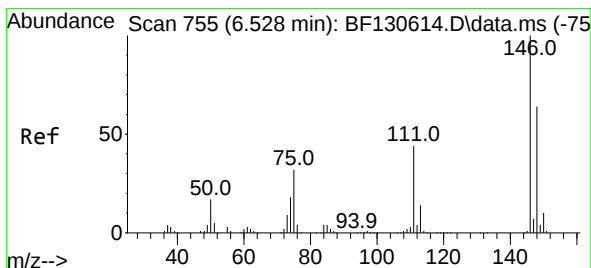
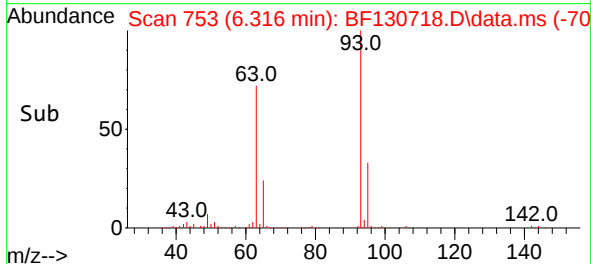
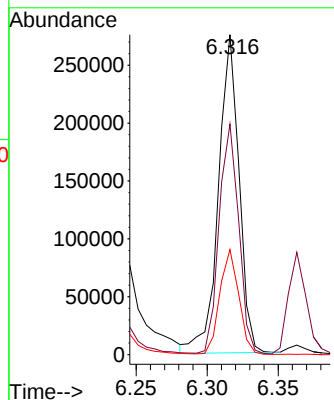
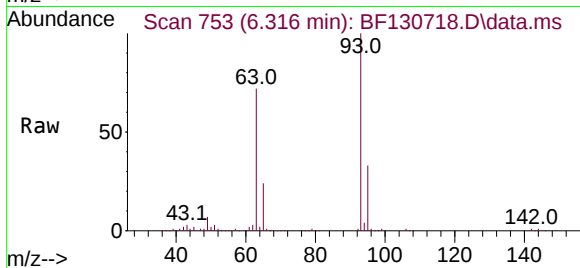
#11
bis(2-Chloroethyl)ether
Concen: 51.085 ng
RT: 6.316 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF130718.D
Acq: 19 Oct 2022 19:00

Instrument :
BNA_F
ClientSampleId :
HAS-SOIL-1013MSD

Tgt Ion: 93 Resp: 277910
Ion Ratio Lower Upper
93 100
63 72.0 56.1 96.1
95 32.8 12.4 52.4

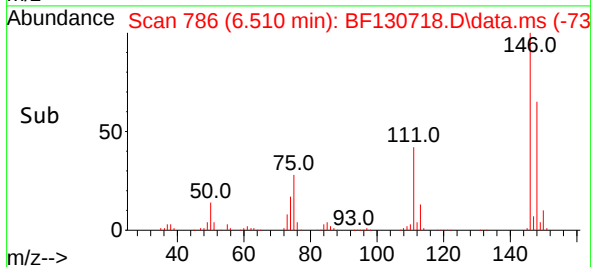
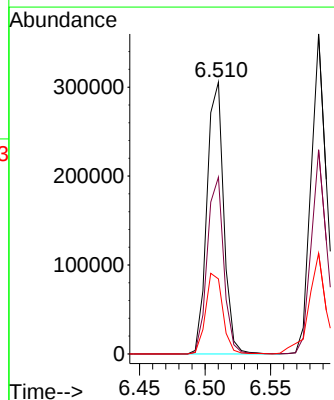
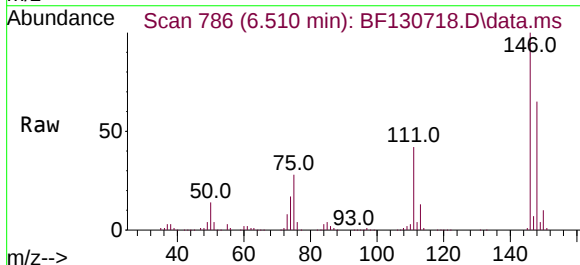
Manual Integrations
APPROVED

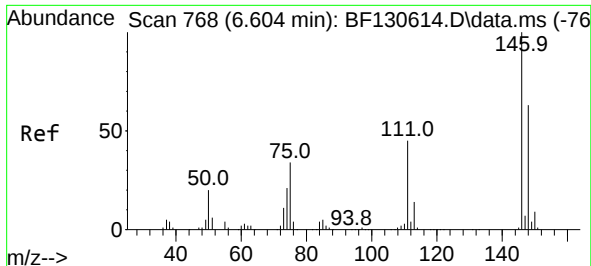
Reviewed By :Christian Giraldo 10/20/2022
Supervised By :mohammad ahmed 10/20/2022



#12
1,3-Dichlorobenzene
Concen: 40.939 ng
RT: 6.510 min Scan# 786
Delta R.T. -0.006 min
Lab File: BF130718.D
Acq: 19 Oct 2022 19:00

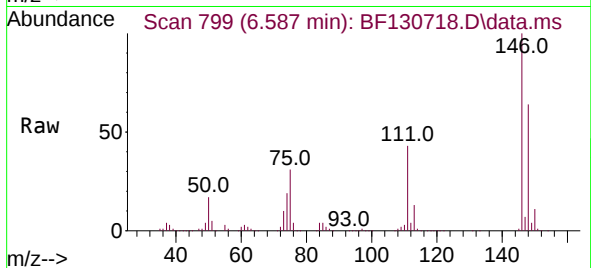
Tgt Ion:146 Resp: 271382
Ion Ratio Lower Upper
146 100
148 65.0 51.3 76.9
75 27.6 25.2 37.8





#13
1,4-Dichlorobenzene
Concen: 43.809 ng
RT: 6.587 min Scan# 799
Delta R.T. -0.006 min
Lab File: BF130718.D
Acq: 19 Oct 2022 19:00

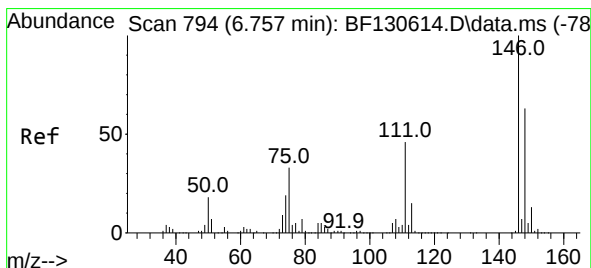
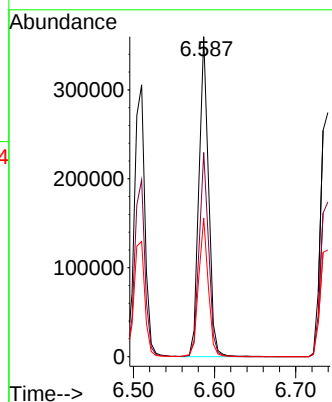
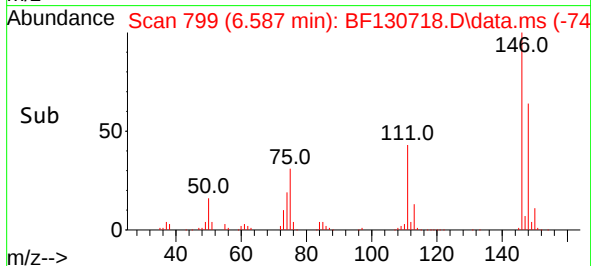
Instrument :
BNA_F
ClientSampleId :
HAS-SOIL-1013MSD



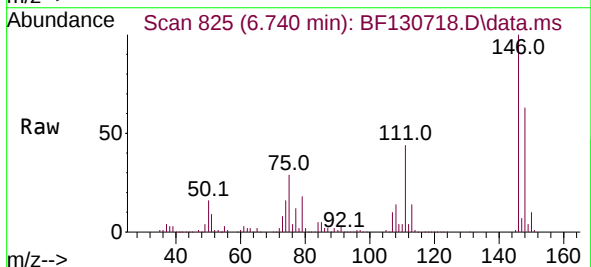
Tgt Ion:146 Resp: 294614
Ion Ratio Lower Upper
146 100
148 63.8 50.1 75.1
111 43.3 35.9 53.9

Manual Integrations
APPROVED

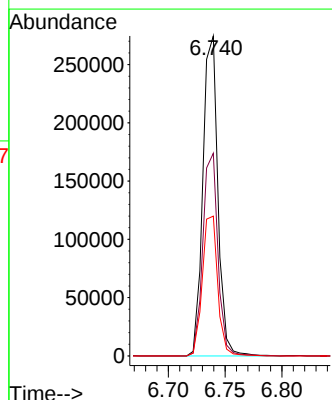
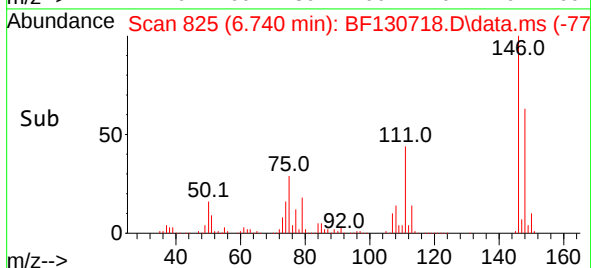
Reviewed By :Christian Giraldo 10/20/2022
Supervised By :mohammad ahmed 10/20/2022

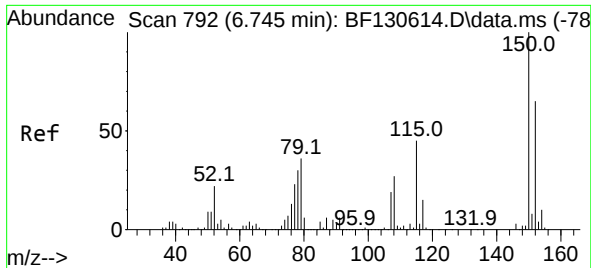


#14
1,2-Dichlorobenzene
Concen: 40.347 ng
RT: 6.740 min Scan# 825
Delta R.T. -0.006 min
Lab File: BF130718.D
Acq: 19 Oct 2022 19:00



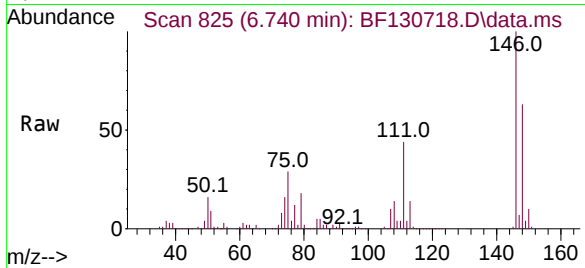
Tgt Ion:146 Resp: 252695
Ion Ratio Lower Upper
146 100
148 63.3 50.5 75.7
111 43.7 37.2 55.8





#15
Benzyl Alcohol
Concen: 38.841 ng
RT: 6.740 min Scan# 81
Delta R.T. 0.006 min
Lab File: BF130718.D
Acq: 19 Oct 2022 19:00

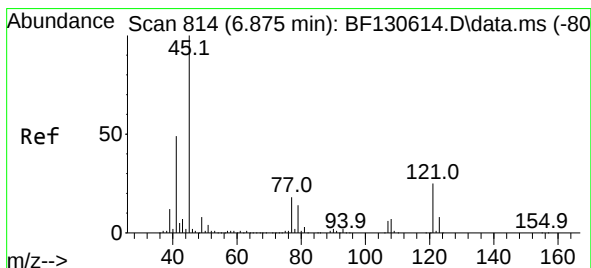
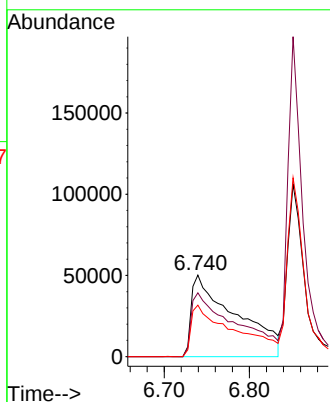
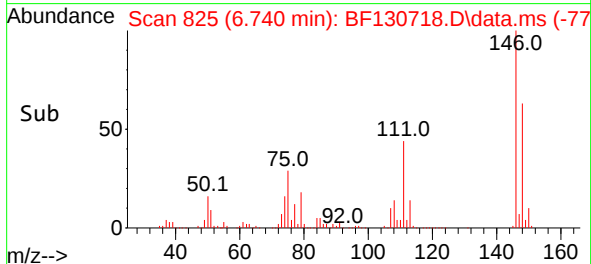
Instrument :
BNA_F
ClientSampleId :
HAS-SOIL-1013MSD



Tgt Ion: 79 Resp: 180498
Ion Ratio Lower Upper
79 100
108 78.2 59.7 89.5
77 63.1 51.8 77.6

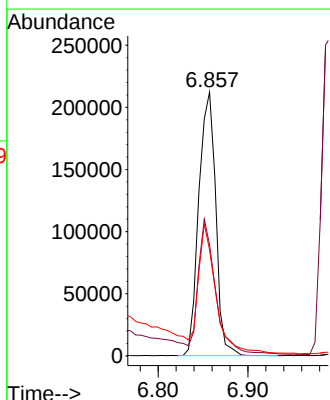
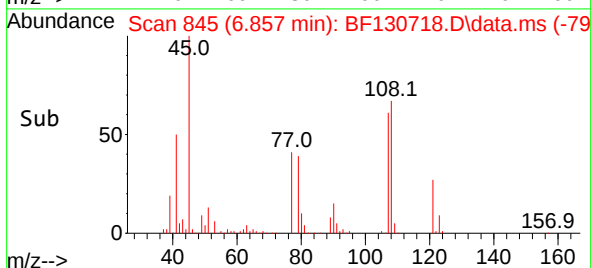
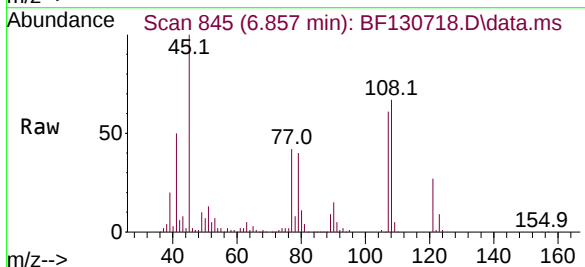
Manual Integrations
APPROVED

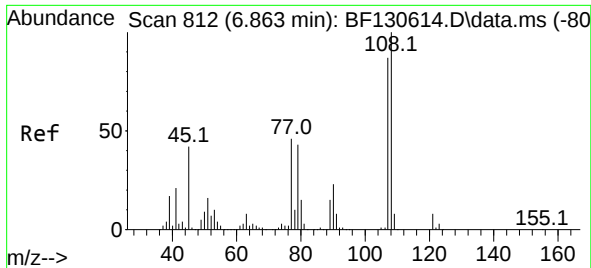
Reviewed By :Christian Giraldo 10/20/2022
Supervised By :mohammad ahmed 10/20/2022



#16
2,2'-oxybis(1-Chloropropane)
Concen: 39.636 ng
RT: 6.857 min Scan# 845
Delta R.T. -0.006 min
Lab File: BF130718.D
Acq: 19 Oct 2022 19:00

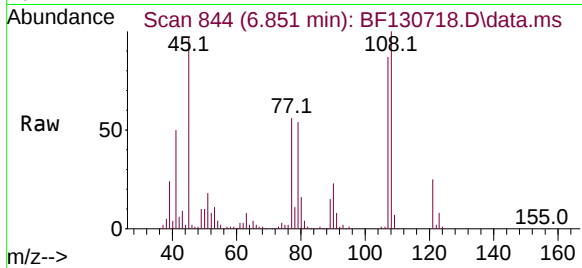
Tgt Ion: 45 Resp: 277412
Ion Ratio Lower Upper
45 100
77 42.1 0.0 38.7#
79 40.2 0.0 34.6#





#17
2-Methylphenol
Concen: 44.228 ng
RT: 6.851 min Scan# 844
Delta R.T. -0.000 min
Lab File: BF130718.D
Acq: 19 Oct 2022 19:00

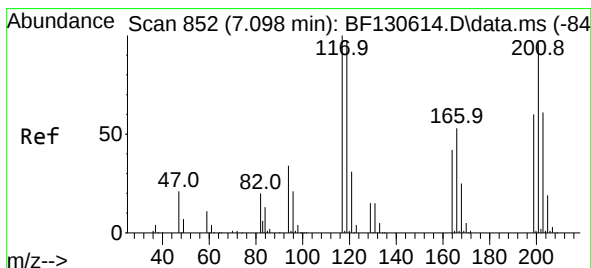
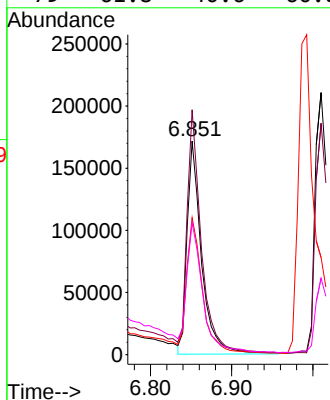
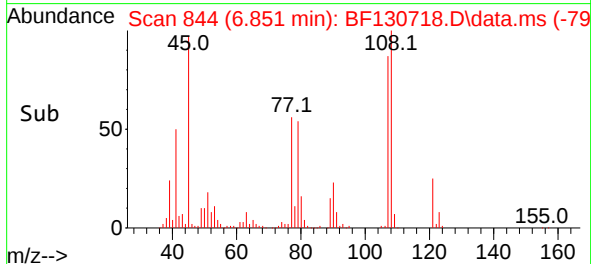
Instrument :
BNA_F
ClientSampleId :
HAS-SOIL-1013MSD



Tgt Ion:107 Resp: 212999
Ion Ratio Lower Upper
107 100
108 114.7 92.2 138.2
77 64.1 42.7 64.1
79 61.8 40.6 60.8

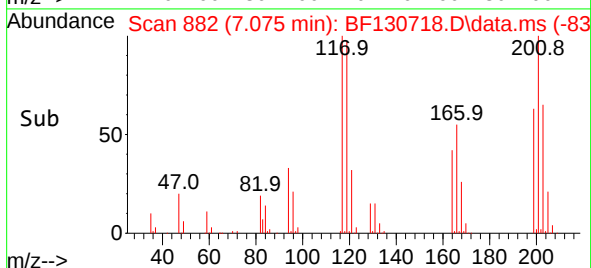
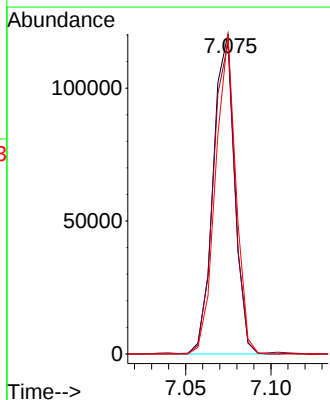
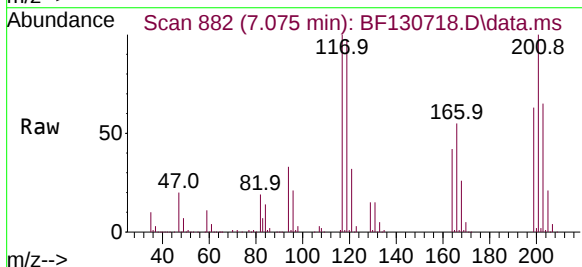
Manual Integrations
APPROVED

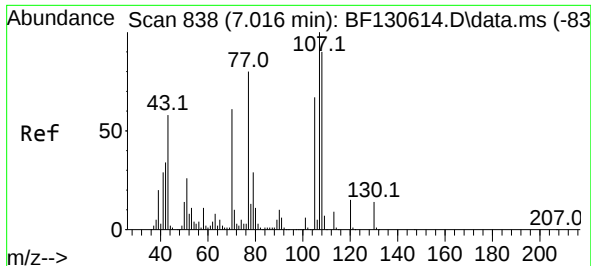
Reviewed By :Christian Giraldo 10/20/2022
Supervised By :mohammad ahmed 10/20/2022



#18
Hexachloroethane
Concen: 41.458 ng
RT: 7.075 min Scan# 882
Delta R.T. -0.006 min
Lab File: BF130718.D
Acq: 19 Oct 2022 19:00

Tgt Ion:117 Resp: 105472
Ion Ratio Lower Upper
117 100
119 97.1 77.6 116.4
201 100.0 77.0 115.6





#19

n-Nitroso-di-n-propylamine

Concen: 43.470 ng

RT: 6.998 min Scan# 80

Delta R.T. -0.006 min

Lab File: BF130718.D

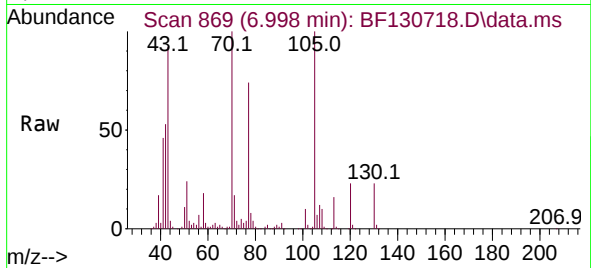
Acq: 19 Oct 2022 19:00

Instrument :

BNA_F

ClientSampleId :

HAS-SOIL-1013MSD



Tgt Ion: 70 Resp: 18153

Ion Ratio Lower Upper

70 100

42 53.4 44.3 66.5

101 10.3 7.9 11.9

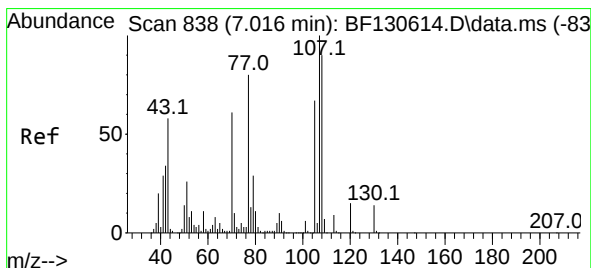
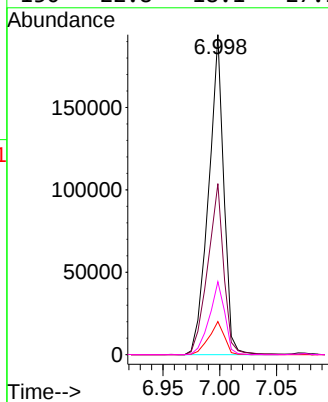
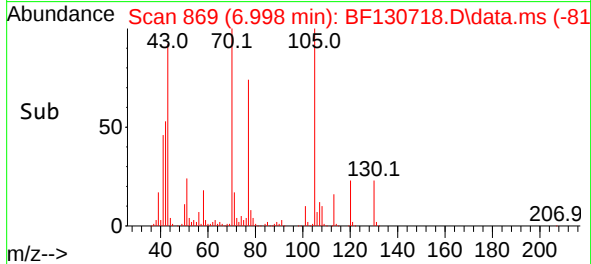
130 22.8 18.1 27.1

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 10/20/2022

Supervised By :mohammad ahmed 10/20/2022



#20

3+4-Methylphenols

Concen: 44.121 ng

RT: 7.010 min Scan# 871

Delta R.T. 0.006 min

Lab File: BF130718.D

Acq: 19 Oct 2022 19:00

Tgt Ion:107 Resp: 284724

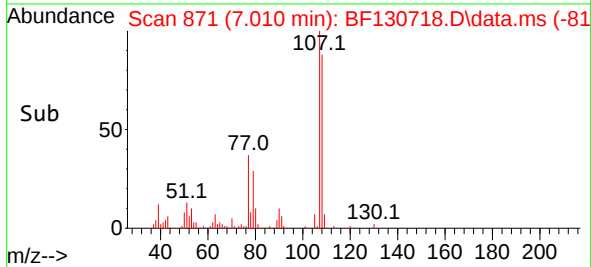
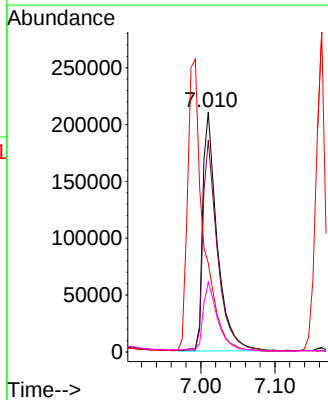
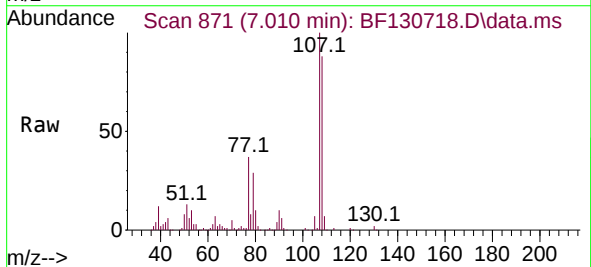
Ion Ratio Lower Upper

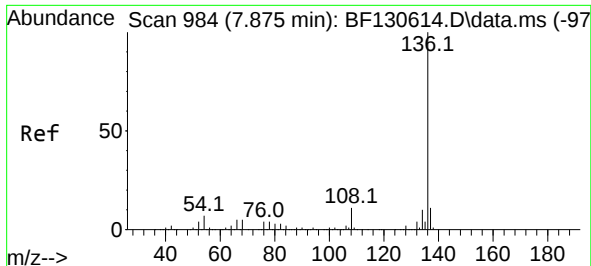
107 100

108 88.3 69.7 109.7

77 37.0 59.7 99.7#

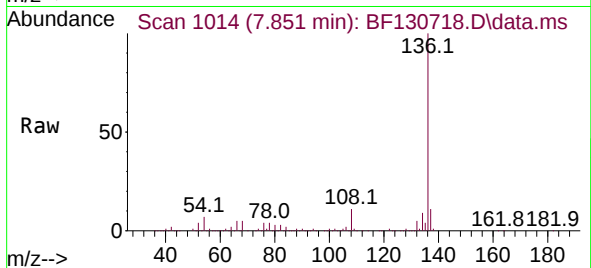
79 29.1 9.5 49.5





#21
Naphthalene-d8
Concen: 20.000 ng
RT: 7.851 min Scan# 1014
Delta R.T. -0.006 min
Lab File: BF130718.D
Acq: 19 Oct 2022 19:00

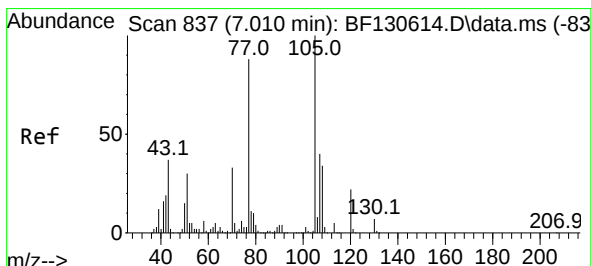
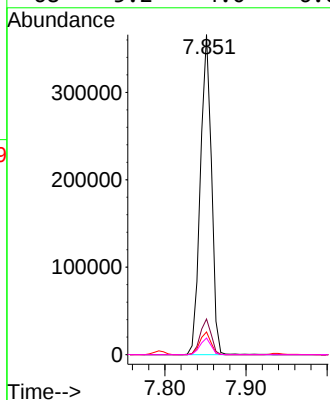
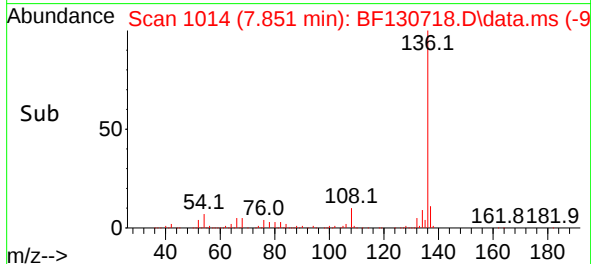
Instrument :
BNA_F
ClientSampleId :
HAS-SOIL-1013MSD



Tgt Ion:136 Resp: 346752
Ion Ratio Lower Upper
136 100
137 11.1 8.4 12.6
54 7.1 5.5 8.3
68 5.2 4.0 6.0

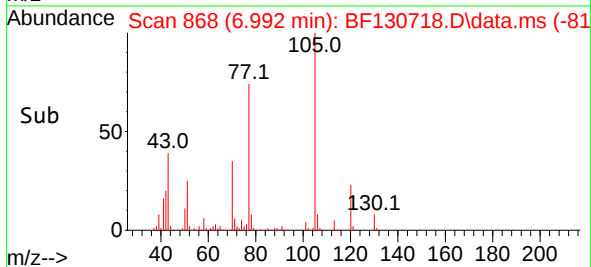
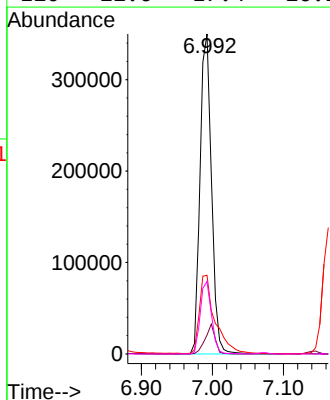
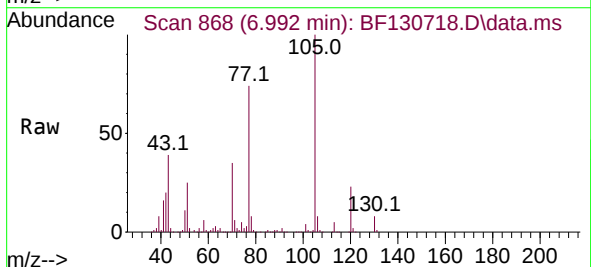
Manual Integrations
APPROVED

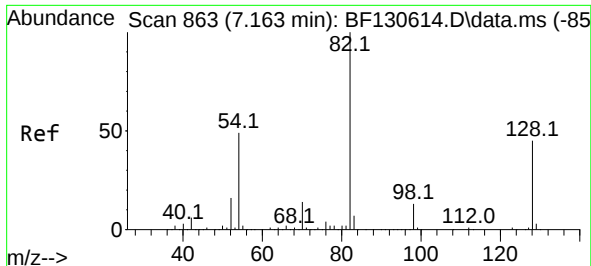
Reviewed By :Christian Giraldo 10/20/2022
Supervised By :mohammad ahmed 10/20/2022



#22
Acetophenone
Concen: 46.763 ng
RT: 6.992 min Scan# 868
Delta R.T. -0.006 min
Lab File: BF130718.D
Acq: 19 Oct 2022 19:00

Tgt Ion:105 Resp: 388983
Ion Ratio Lower Upper
105 100
71 5.9 4.2 6.4
51 24.6 24.3 36.5
120 22.6 17.4 26.2





#23

Nitrobenzene-d5

Concen: 64.628 ng

RT: 7.145 min Scan# 894

Delta R.T. -0.006 min

Lab File: BF130718.D

Acq: 19 Oct 2022 19:00

Instrument :

BNA_F

ClientSampleId :

HAS-SOIL-1013MSD

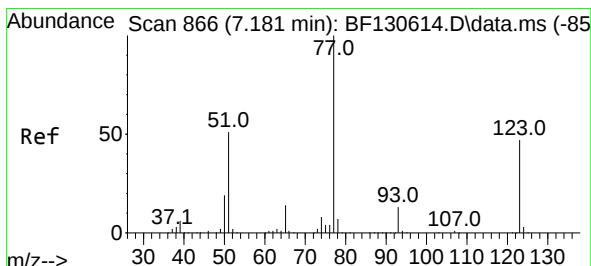
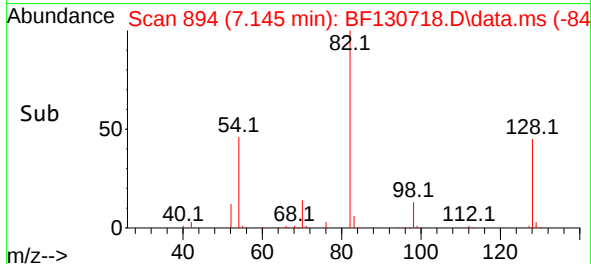
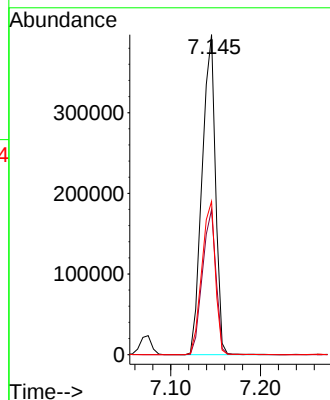
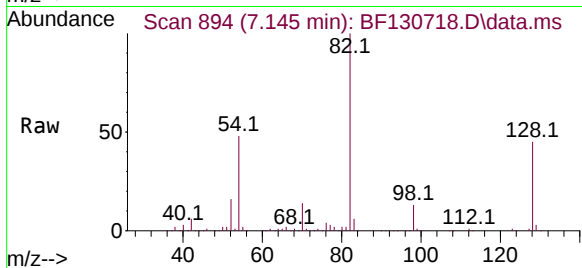
Tgt Ion: 82 Resp: 410511

Ion	Ratio	Lower	Upper
82	100		
128	45.3	35.8	53.6
54	47.9	39.3	58.9

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 10/20/2022
Supervised By :mohammad ahmed 10/20/2022



#24

Nitrobenzene

Concen: 37.612 ng

RT: 7.163 min Scan# 897

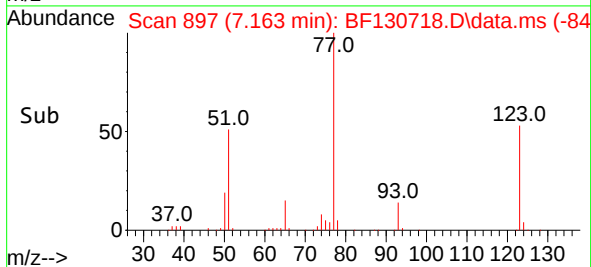
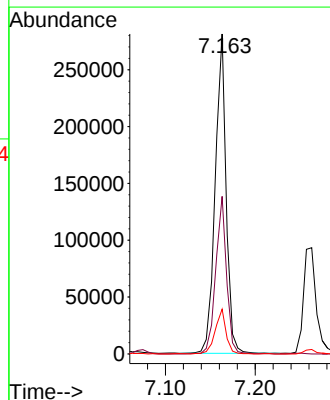
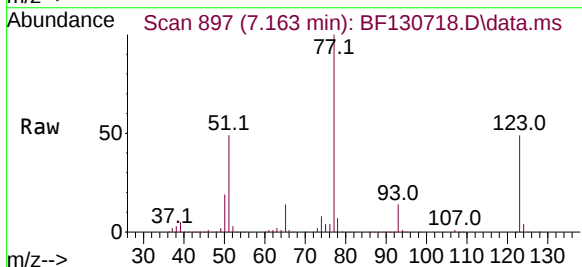
Delta R.T. -0.006 min

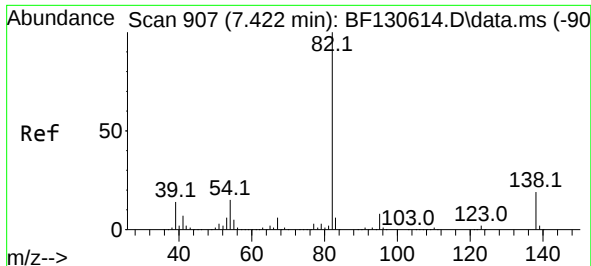
Lab File: BF130718.D

Acq: 19 Oct 2022 19:00

Tgt Ion: 77 Resp: 240258

Ion	Ratio	Lower	Upper
77	100		
123	49.2	37.5	56.3
65	14.0	11.0	16.4





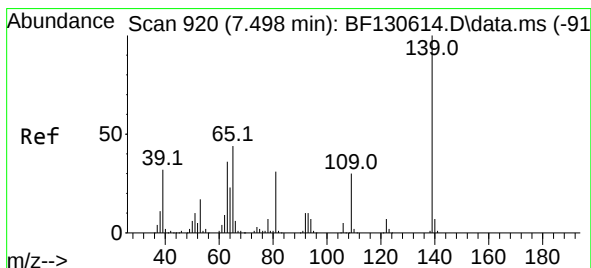
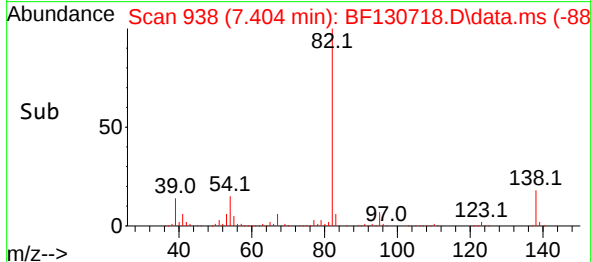
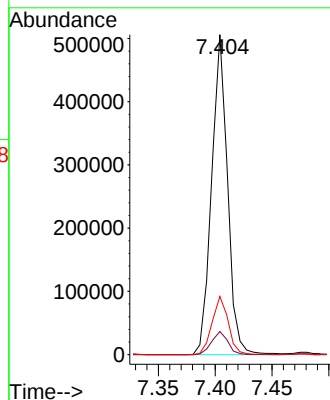
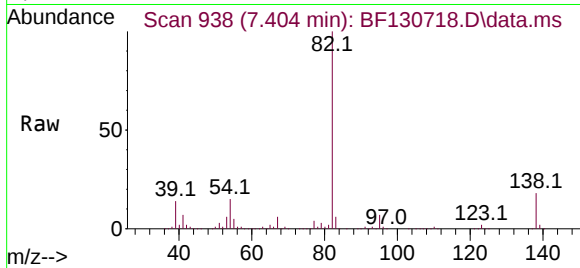
#25
Isophorone
Concen: 46.751 ng
RT: 7.404 min Scan# 938
Delta R.T. -0.006 min
Lab File: BF130718.D
Acq: 19 Oct 2022 19:00

Instrument :
BNA_F
ClientSampleId :
HAS-SOIL-1013MSD

Tgt Ion: 82 Resp: 494240
Ion Ratio Lower Upper
82 100
95 7.2 6.1 9.1
138 18.2 14.9 22.3

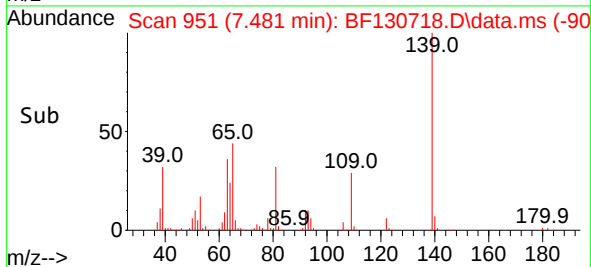
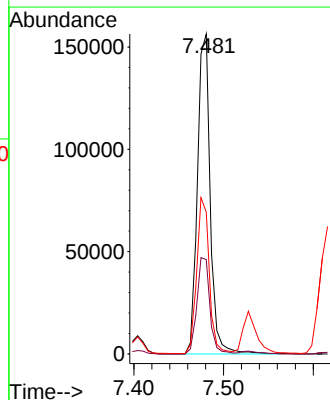
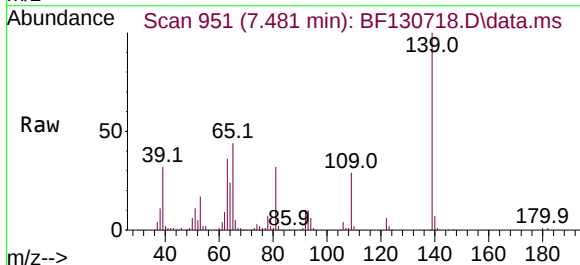
Manual Integrations
APPROVED

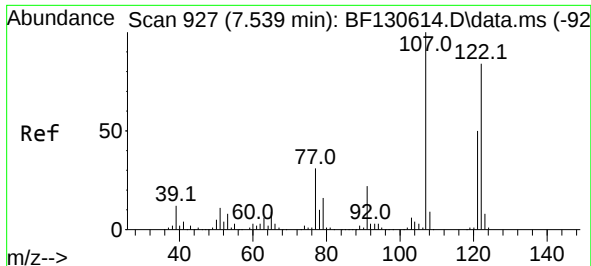
Reviewed By :Christian Giraldo 10/20/2022
Supervised By :mohammad ahmed 10/20/2022



#26
2-Nitrophenol
Concen: 49.364 ng
RT: 7.481 min Scan# 951
Delta R.T. -0.006 min
Lab File: BF130718.D
Acq: 19 Oct 2022 19:00

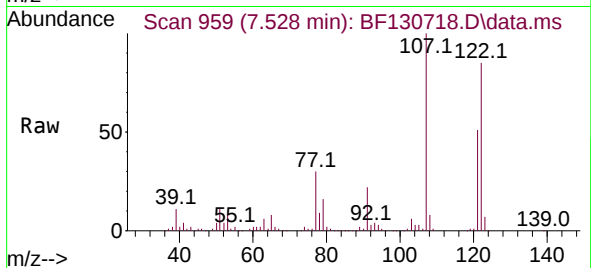
Tgt Ion:139 Resp: 154639
Ion Ratio Lower Upper
139 100
109 29.5 23.9 35.9
65 44.3 34.9 52.3





#27
2,4-Dimethylphenol
Concen: 50.687 ng
RT: 7.528 min Scan# 910
Delta R.T. -0.006 min
Lab File: BF130718.D
Acq: 19 Oct 2022 19:00

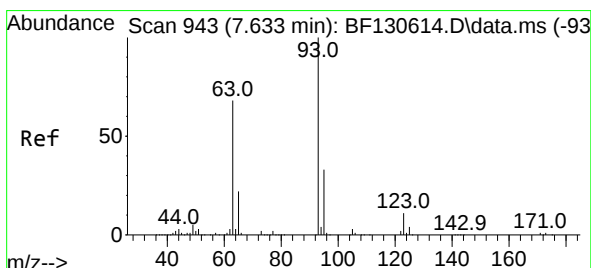
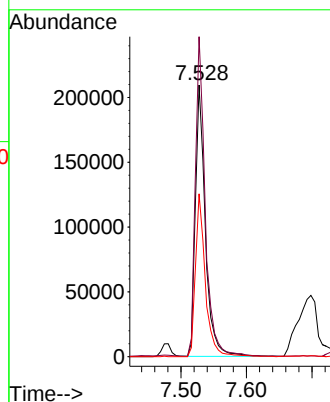
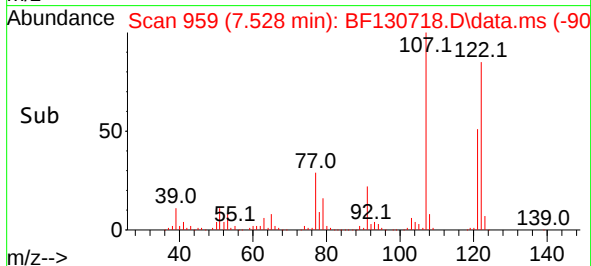
Instrument :
BNA_F
ClientSampleId :
HAS-SOIL-1013MSD



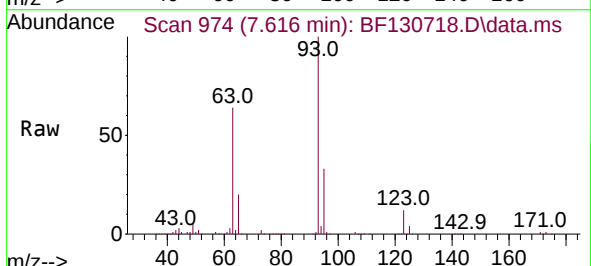
Tgt Ion:122 Resp: 221306
Ion Ratio Lower Upper
122 100
107 117.8 94.9 142.3
121 59.9 47.1 70.7

Manual Integrations
APPROVED

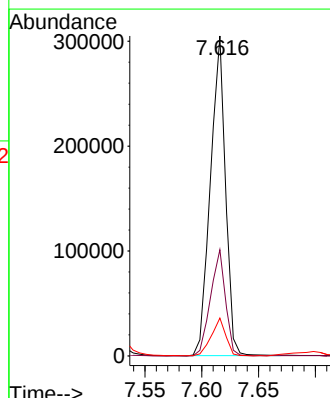
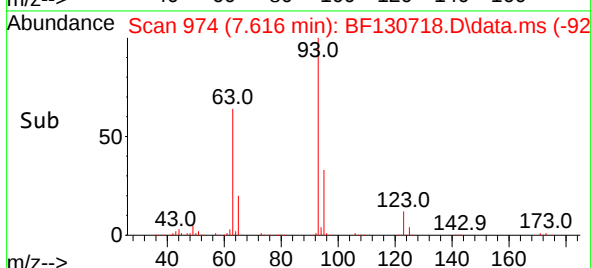
Reviewed By :Christian Giraldo 10/20/2022
Supervised By :mohammad ahmed 10/20/2022

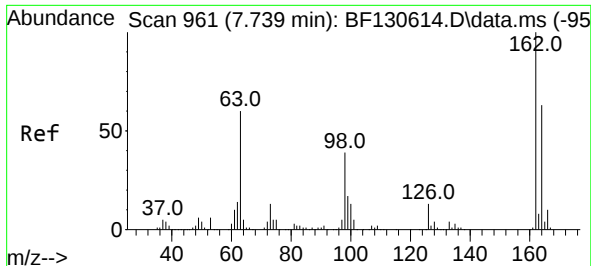


#28
bis(2-Chloroethoxy)methane
Concen: 46.151 ng
RT: 7.616 min Scan# 974
Delta R.T. -0.006 min
Lab File: BF130718.D
Acq: 19 Oct 2022 19:00



Tgt Ion: 93 Resp: 282509
Ion Ratio Lower Upper
93 100
95 33.2 26.4 39.6
123 11.8 9.1 13.7





#29

2,4-Dichlorophenol

Concen: 44.113 ng

RT: 7.728 min Scan# 99

Delta R.T. -0.000 min

Lab File: BF130718.D

Acq: 19 Oct 2022 19:00

Instrument :

BNA_F

ClientSampleId :

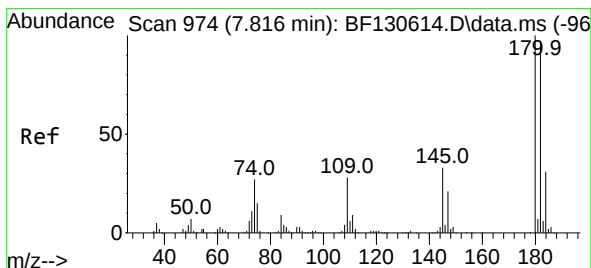
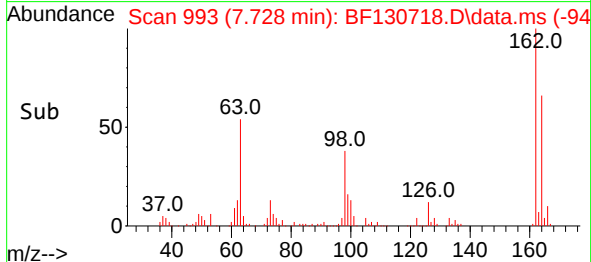
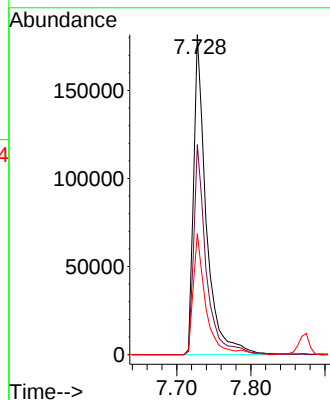
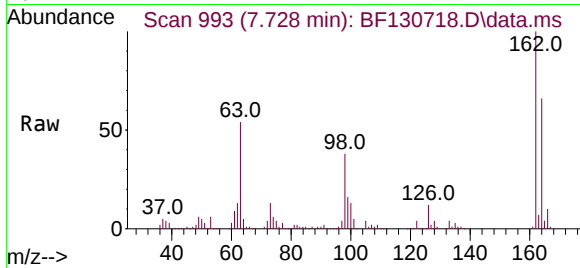
HAS-SOIL-1013MSD

Tgt Ion:	162	Resp:	215490
Ion Ratio	Lower	Upper	
162	100		
164	65.6	42.8	82.8
98	37.8	18.6	58.6

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 10/20/2022
Supervised By :mohammad ahmed 10/20/2022



#30

1,2,4-Trichlorobenzene

Concen: 39.953 ng

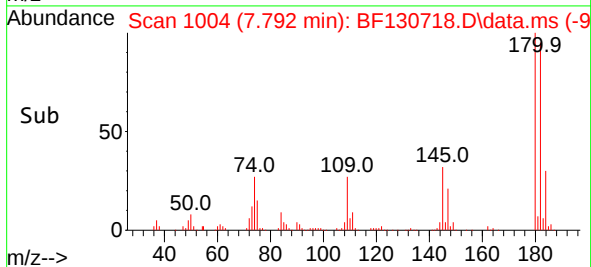
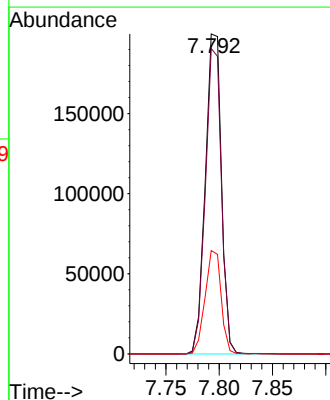
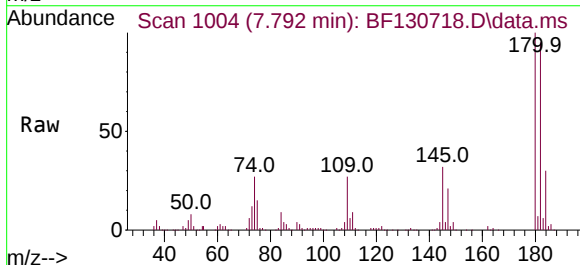
RT: 7.792 min Scan# 1004

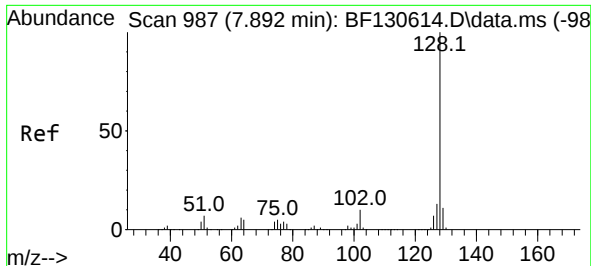
Delta R.T. -0.012 min

Lab File: BF130718.D

Acq: 19 Oct 2022 19:00

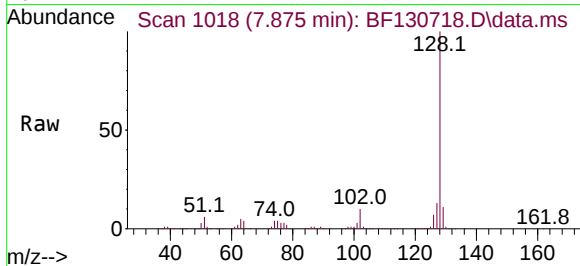
Tgt Ion:	180	Resp:	210404
Ion Ratio	Lower	Upper	
180	100		
182	95.4	78.0	117.0
145	32.3	26.7	40.1





#31
Naphthalene
Concen: 42.225 ng
RT: 7.875 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF130718.D
Acq: 19 Oct 2022 19:00

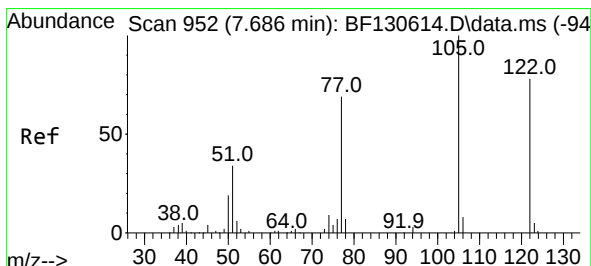
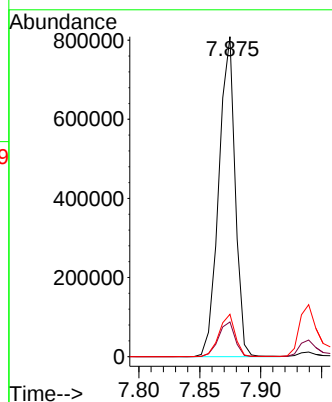
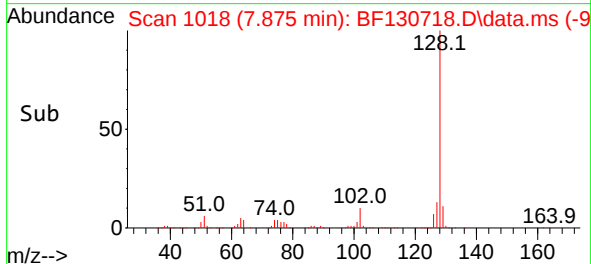
Instrument :
BNA_F
ClientSampleId :
HAS-SOIL-1013MSD



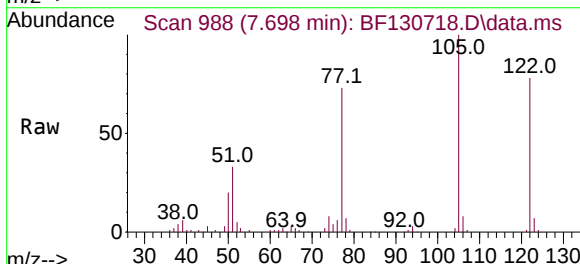
Tgt Ion:128 Resp: 757925
Ion Ratio Lower Upper
128 100
129 10.8 9.0 13.4
127 13.2 10.3 15.5

Manual Integrations
APPROVED

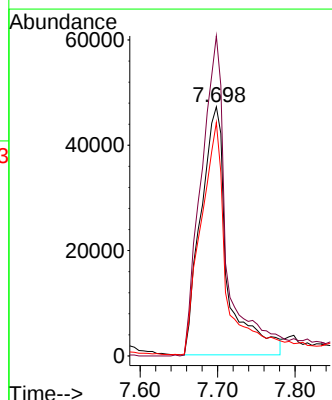
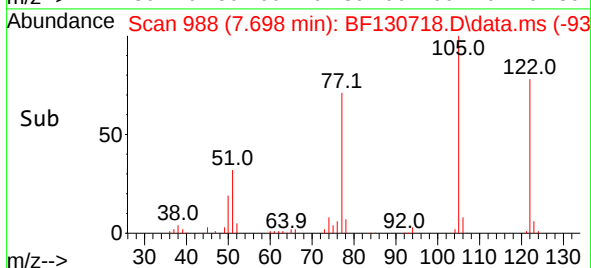
Reviewed By :Christian Giraldo 10/20/2022
Supervised By :mohammad ahmed 10/20/2022

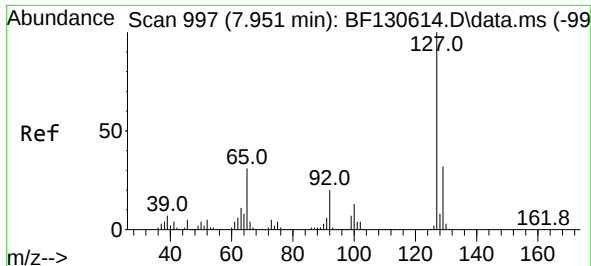


#32
Benzoic acid
Concen: 41.050 ng
RT: 7.698 min Scan# 988
Delta R.T. 0.012 min
Lab File: BF130718.D
Acq: 19 Oct 2022 19:00



Tgt Ion:122 Resp: 113387
Ion Ratio Lower Upper
122 100
105 128.5 104.8 144.8
77 93.7 68.2 108.2





#33

4-Chloroaniline

Concen: 22.900 ng

RT: 7.939 min Scan# 1029

Delta R.T. -0.000 min

Lab File: BF130718.D

Acq: 19 Oct 2022 19:00

Instrument :

BNA_F

ClientSampleId :

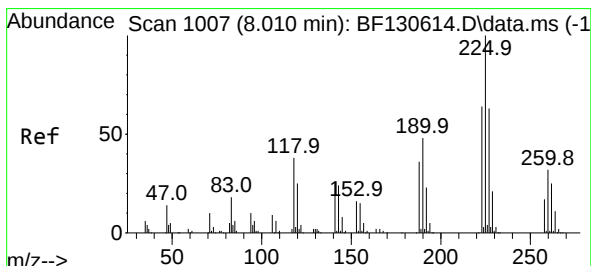
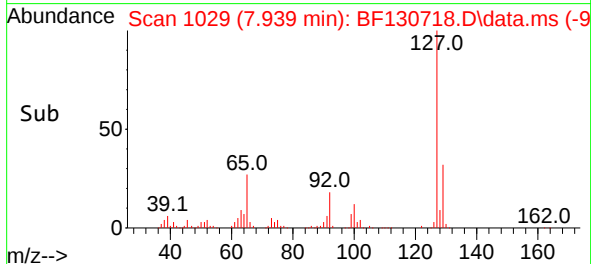
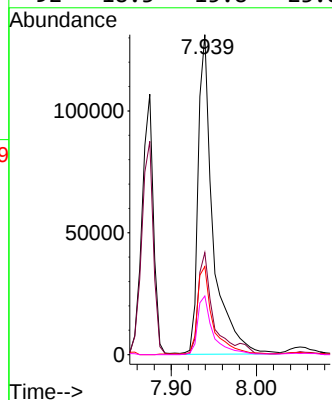
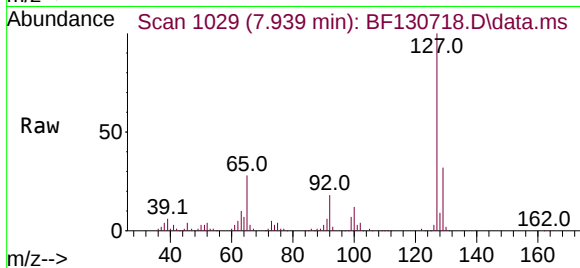
HAS-SOIL-1013MSD

Tgt Ion:	127	Resp:	15922
Ion Ratio	Lower	Upper	
127	100		
129	31.9	25.7	38.5
65	27.5	24.7	37.1
92	18.3	15.8	23.8

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 10/20/2022
Supervised By :mohammad ahmed 10/20/2022



#34

Hexachlorobutadiene

Concen: 40.062 ng

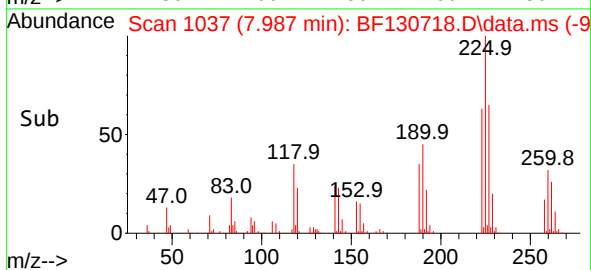
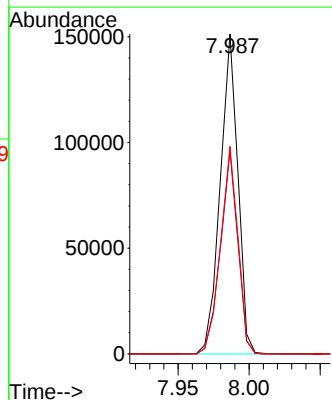
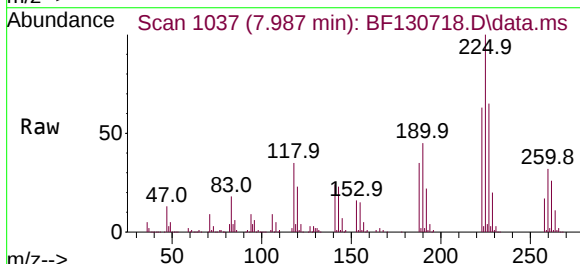
RT: 7.987 min Scan# 1037

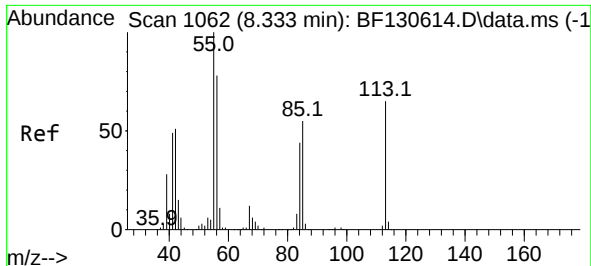
Delta R.T. -0.012 min

Lab File: BF130718.D

Acq: 19 Oct 2022 19:00

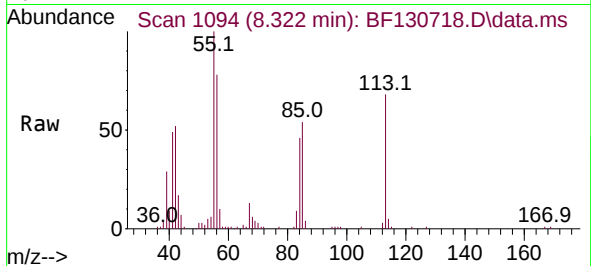
Tgt Ion:	225	Resp:	130948
Ion Ratio	Lower	Upper	
225	100		
223	63.4	51.5	77.3
227	64.8	50.4	75.6





#35
Caprolactam
Concen: 35.832 ng m
RT: 8.322 min Scan# 1062
Delta R.T. -0.006 min
Lab File: BF130718.D
Acq: 19 Oct 2022 19:00

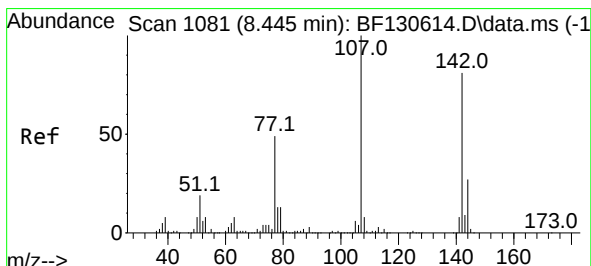
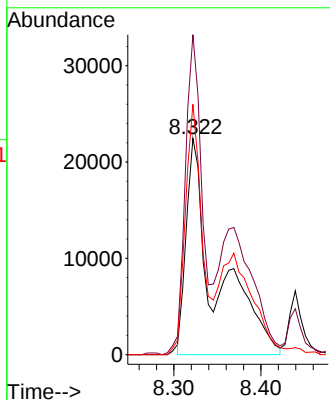
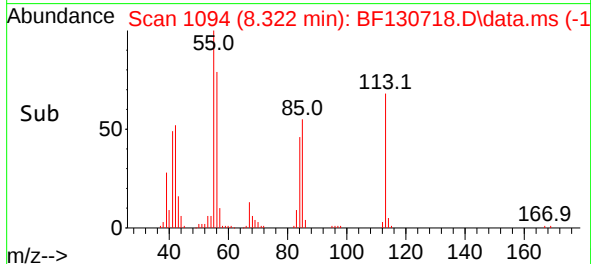
Instrument :
BNA_F
ClientSampleId :
HAS-SOIL-1013MSD



Tgt Ion:113 Resp: 52664
Ion Ratio Lower Upper
113 100
55 148.0 134.3 174.3
56 115.8 101.0 141.0

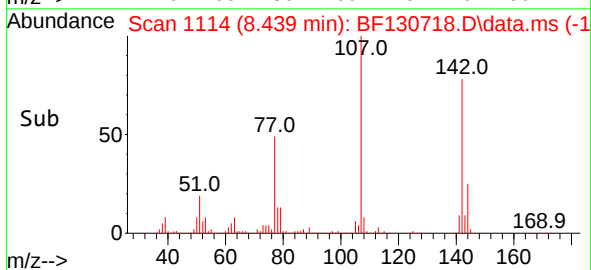
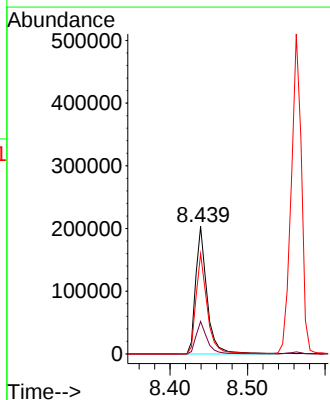
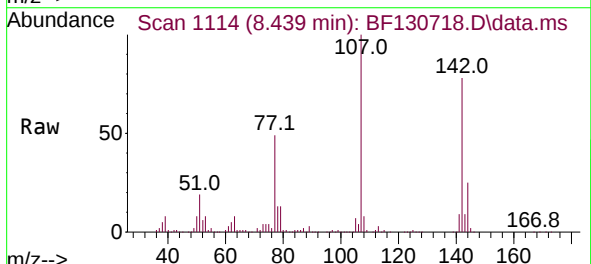
Manual Integrations
APPROVED

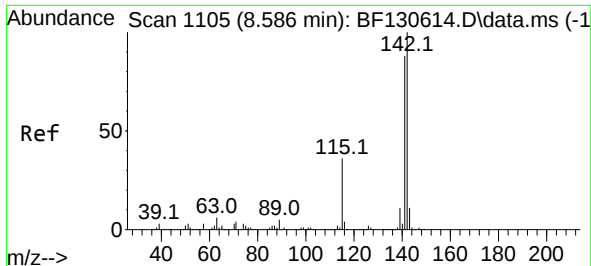
Reviewed By :Christian Giraldo 10/20/2022
Supervised By :mohammad ahmed 10/20/2022



#36
4-Chloro-3-methylphenol
Concen: 39.047 ng
RT: 8.439 min Scan# 1114
Delta R.T. 0.006 min
Lab File: BF130718.D
Acq: 19 Oct 2022 19:00

Tgt Ion:107 Resp: 206898
Ion Ratio Lower Upper
107 100
144 25.5 21.9 32.9
142 78.4 64.6 96.8





#37

2-Methylnaphthalene

Concen: 41.411 ng

RT: 8.563 min Scan# 1105

Delta R.T. -0.006 min

Lab File: BF130718.D

Acq: 19 Oct 2022 19:00

Instrument :

BNA_F

ClientSampleId :

HAS-SOIL-1013MSD

Tgt Ion:142 Resp: 46776

Ion Ratio Lower Upper

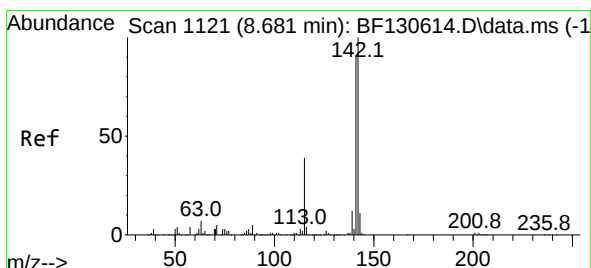
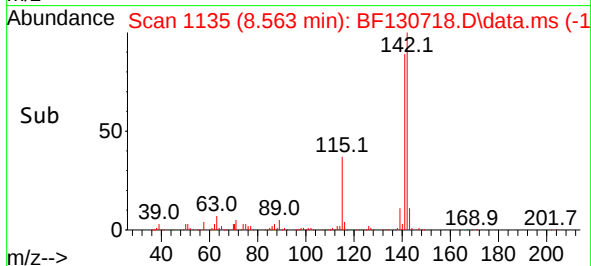
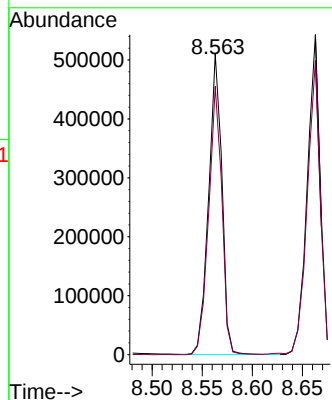
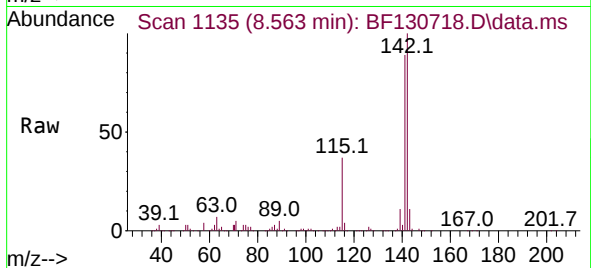
142 100

141 89.2 70.7 106.1

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 10/20/2022
Supervised By :mohammad ahmed 10/20/2022



#38

1-Methylnaphthalene

Concen: 44.777 ng

RT: 8.663 min Scan# 1152

Delta R.T. -0.006 min

Lab File: BF130718.D

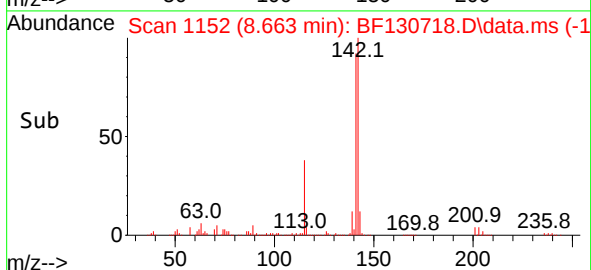
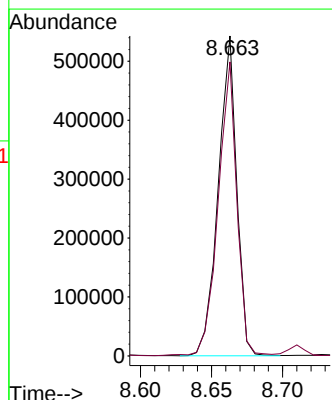
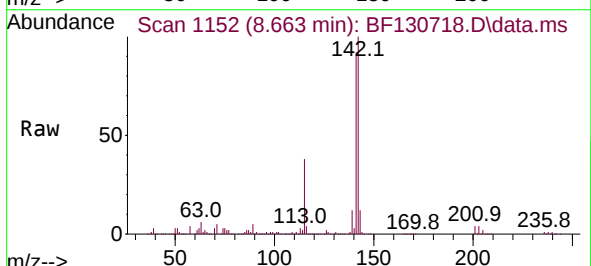
Acq: 19 Oct 2022 19:00

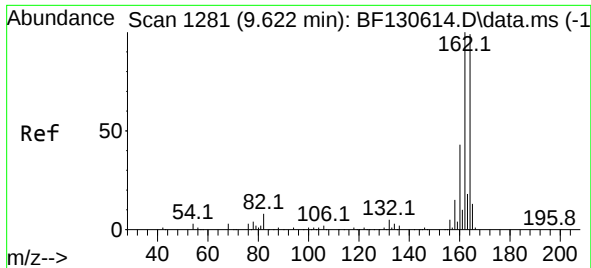
Tgt Ion:142 Resp: 491004

Ion Ratio Lower Upper

142 100

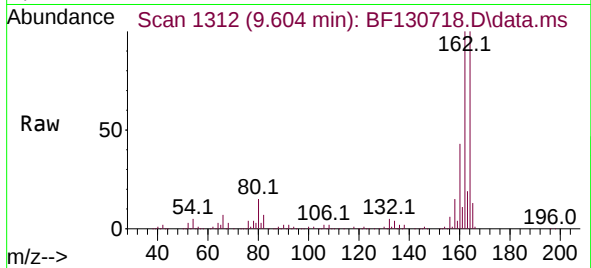
141 91.9 72.6 108.8





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.604 min Scan# 1163
Delta R.T. -0.006 min
Lab File: BF130718.D
Acq: 19 Oct 2022 19:00

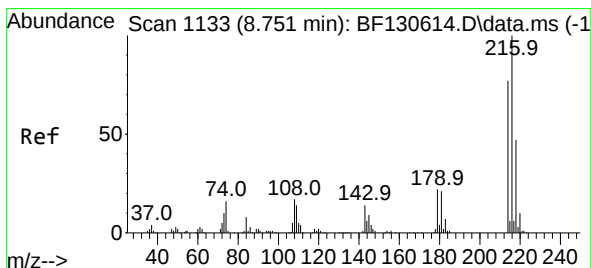
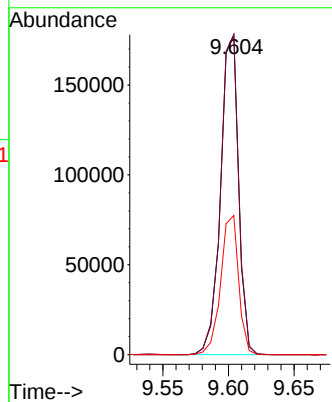
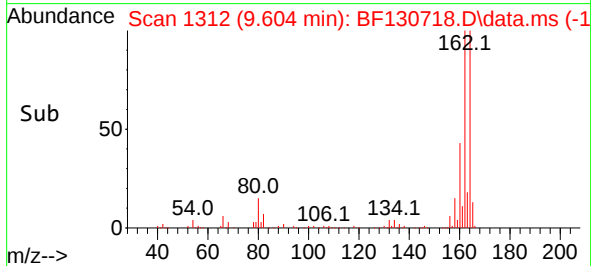
Instrument :
BNA_F
ClientSampleId :
HAS-SOIL-1013MSD



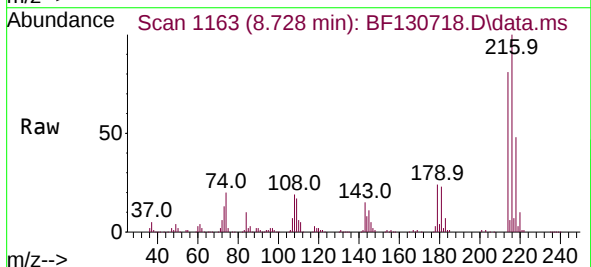
Tgt Ion:164 Resp: 169943
Ion Ratio Lower Upper
164 100
162 100.0 81.0 121.4
160 43.5 34.5 51.7

Manual Integrations
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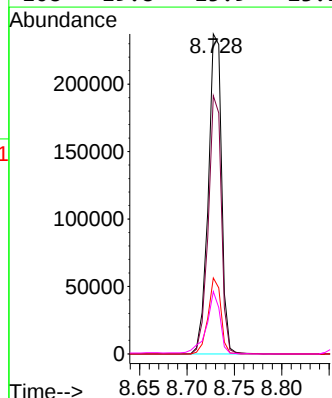
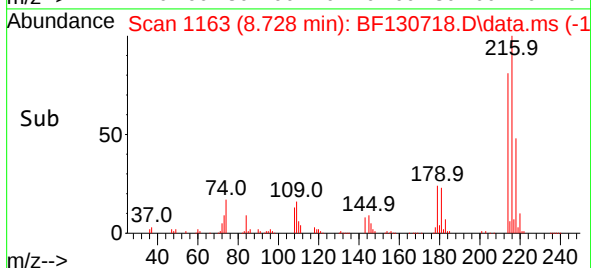
Reviewed By :Christian Giraldo 10/20/2022
Supervised By :mohammad ahmed 10/20/2022

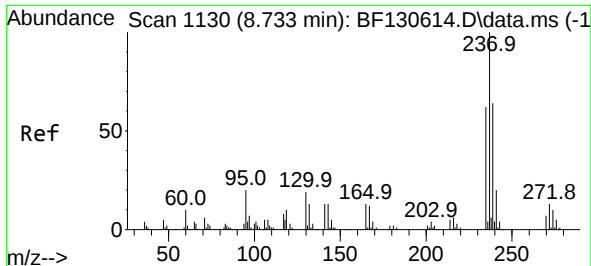


#40
1,2,4,5-Tetrachlorobenzene
Concen: 50.425 ng
RT: 8.728 min Scan# 1163
Delta R.T. -0.012 min
Lab File: BF130718.D
Acq: 19 Oct 2022 19:00



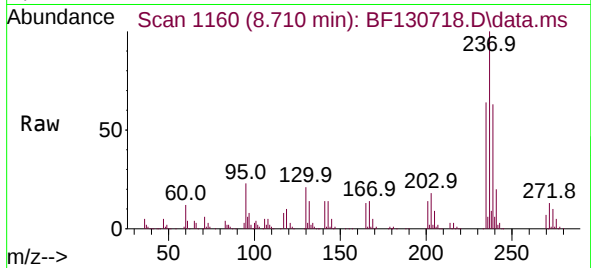
Tgt Ion:216 Resp: 232498
Ion Ratio Lower Upper
216 100
214 79.4 62.1 93.1
179 22.7 18.6 27.8
108 19.8 15.9 23.9





#41
Hexachlorocyclopentadiene
Concen: 62.765 ng
RT: 8.710 min Scan# 1130
Delta R.T. -0.012 min
Lab File: BF130718.D
Acq: 19 Oct 2022 19:00

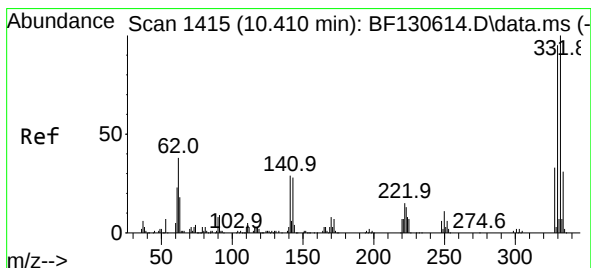
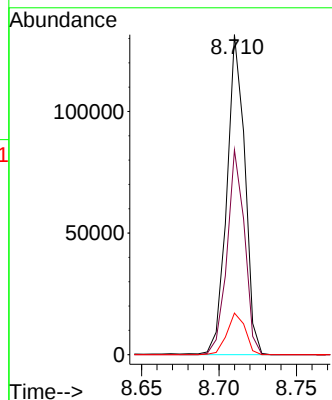
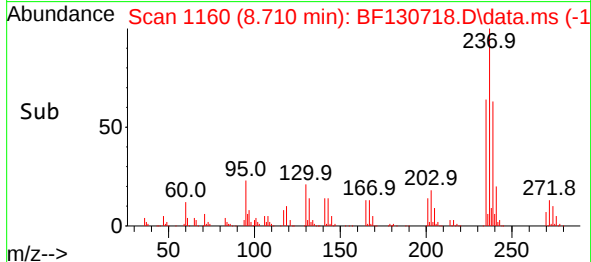
Instrument :
BNA_F
ClientSampleId :
HAS-SOIL-1013MSD



Tgt Ion:237 Resp: 106287
Ion Ratio Lower Upper
237 100
235 64.0 42.2 82.2
272 13.0 0.0 32.6

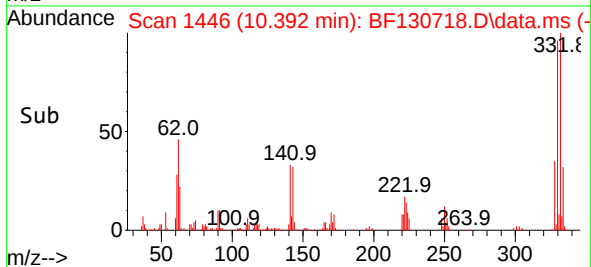
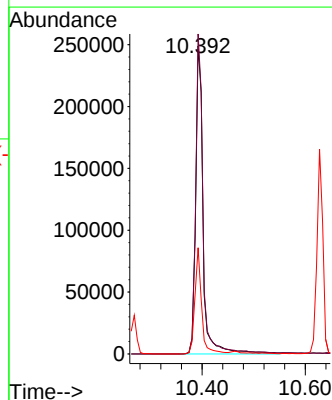
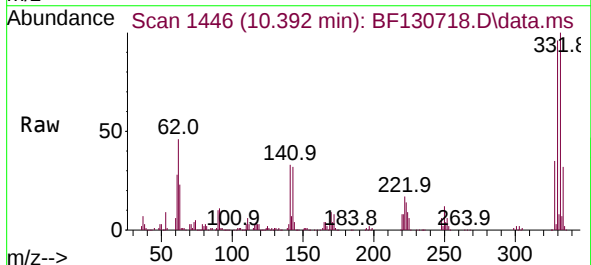
Manual Integrations
APPROVED

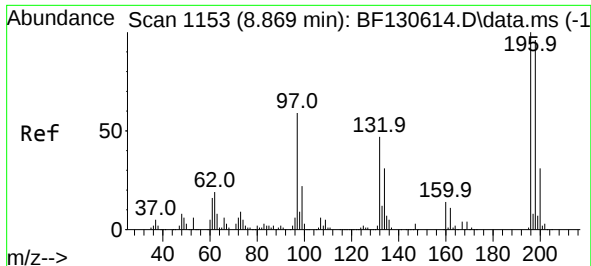
Reviewed By :Christian Giraldo 10/20/2022
Supervised By :mohammad ahmed 10/20/2022



#42
2,4,6-Tribromophenol
Concen: 149.804 ng
RT: 10.392 min Scan# 1446
Delta R.T. -0.006 min
Lab File: BF130718.D
Acq: 19 Oct 2022 19:00

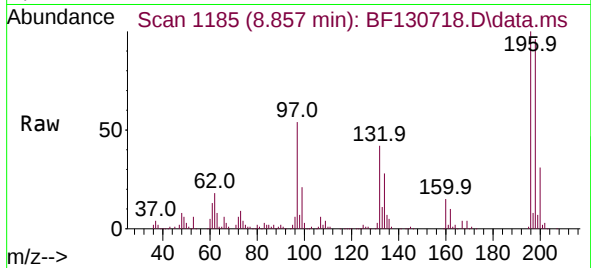
Tgt Ion:330 Resp: 249106
Ion Ratio Lower Upper
330 100
332 103.0 84.2 126.4
141 30.9 26.8 40.2





#43
2,4,6-Trichlorophenol
Concen: 47.587 ng
RT: 8.857 min Scan# 1153
Delta R.T. -0.000 min
Lab File: BF130718.D
Acq: 19 Oct 2022 19:00

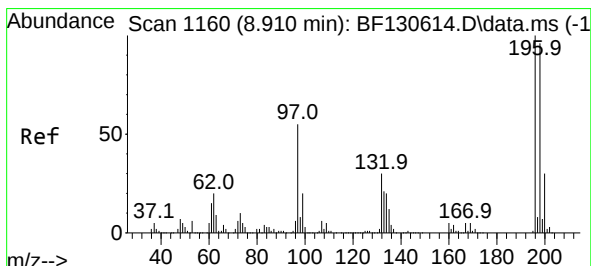
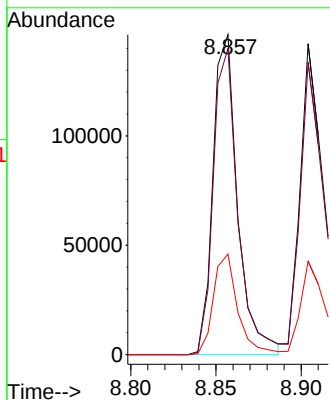
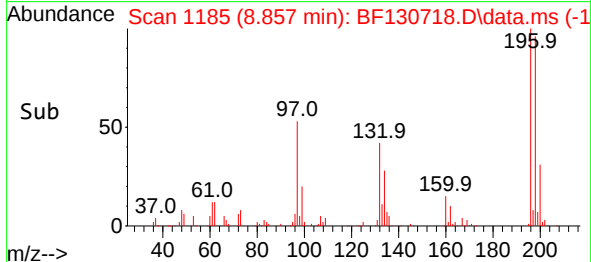
Instrument :
BNA_F
ClientSampleId :
HAS-SOIL-1013MSD



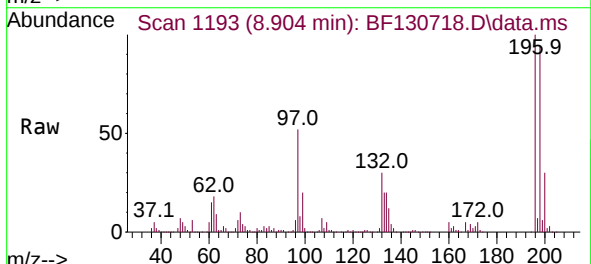
Tgt Ion:196 Resp: 147323
Ion Ratio Lower Upper
196 100
198 95.7 76.6 115.0
200 31.4 25.0 37.6

Manual Integrations
APPROVED

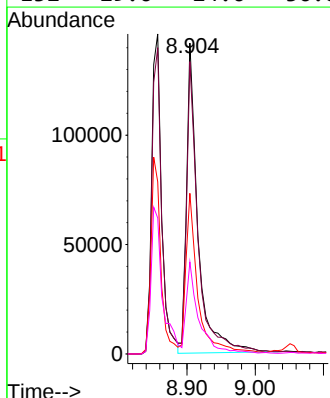
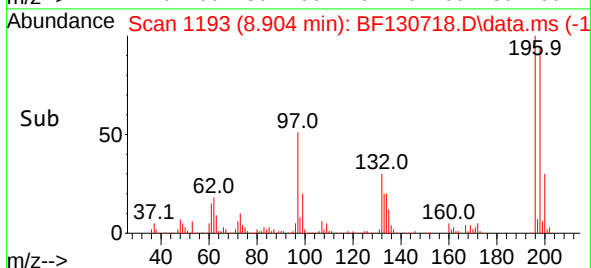
Reviewed By :Christian Giraldo 10/20/2022
Supervised By :mohammad ahmed 10/20/2022

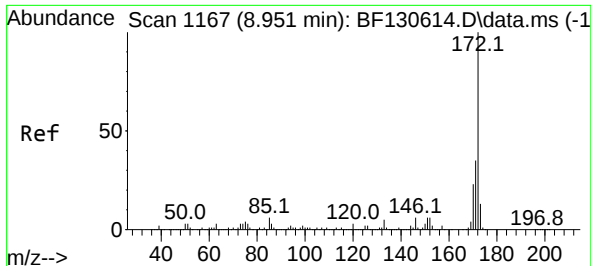


#44
2,4,5-Trichlorophenol
Concen: 48.685 ng
RT: 8.904 min Scan# 1193
Delta R.T. -0.000 min
Lab File: BF130718.D
Acq: 19 Oct 2022 19:00



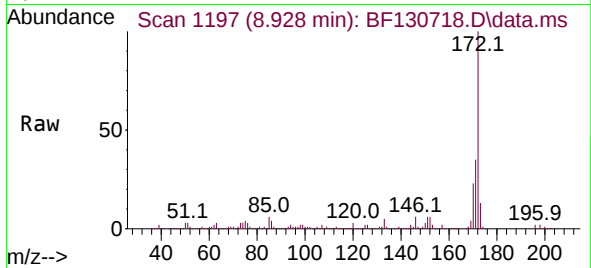
Tgt Ion:196 Resp: 165753
Ion Ratio Lower Upper
196 100
198 94.1 76.6 114.8
97 51.7 44.3 66.5
132 29.6 24.6 36.8





#45
2-Fluorobiphenyl
Concen: 81.020 ng
RT: 8.928 min Scan# 1167
Delta R.T. -0.012 min
Lab File: BF130718.D
Acq: 19 Oct 2022 19:00

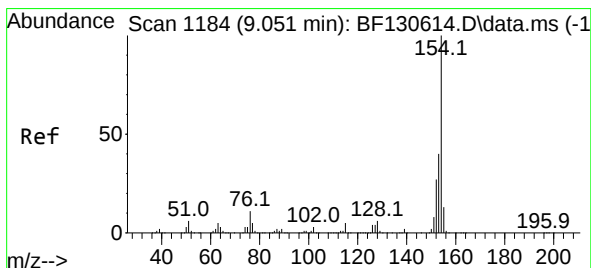
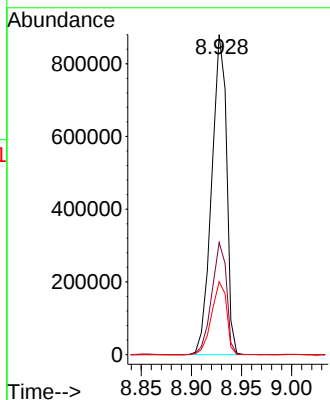
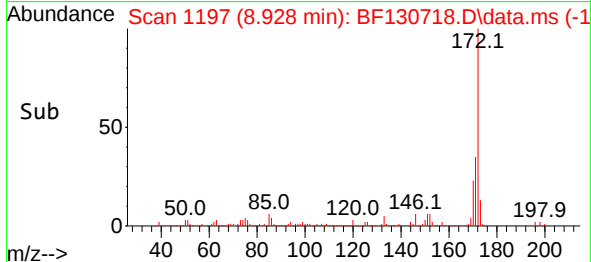
Instrument :
BNA_F
ClientSampleId :
HAS-SOIL-1013MSD



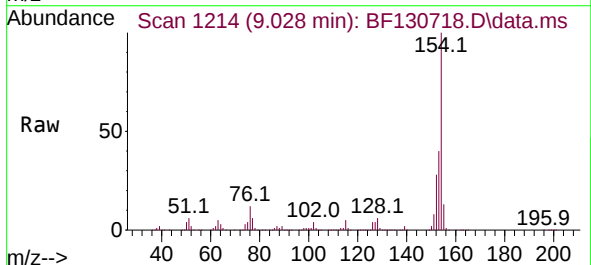
Tgt Ion:172 Resp: 908984
Ion Ratio Lower Upper
172 100
171 35.0 27.8 41.8
170 22.8 18.6 27.8

Manual Integrations
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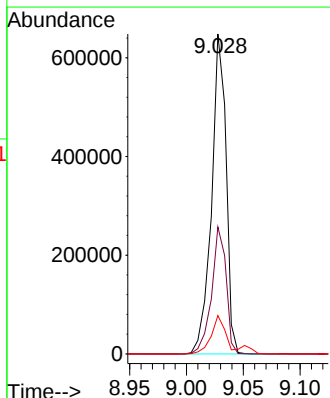
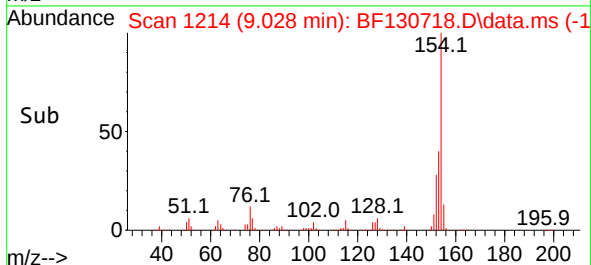
Reviewed By :Christian Giraldo 10/20/2022
Supervised By :mohammad ahmed 10/20/2022

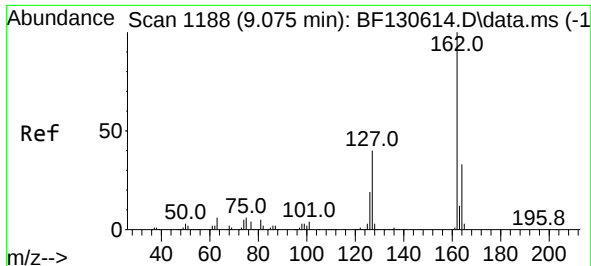


#46
1,1'-Biphenyl
Concen: 46.781 ng
RT: 9.028 min Scan# 1214
Delta R.T. -0.012 min
Lab File: BF130718.D
Acq: 19 Oct 2022 19:00



Tgt Ion:154 Resp: 576150
Ion Ratio Lower Upper
154 100
153 39.7 20.0 60.0
76 12.0 0.0 30.8





#47

2-Chloronaphthalene

Concen: 46.791 ng

RT: 9.051 min Scan# 1188

Delta R.T. -0.006 min

Lab File: BF130718.D

Acq: 19 Oct 2022 19:00

Instrument :

BNA_F

ClientSampleId :

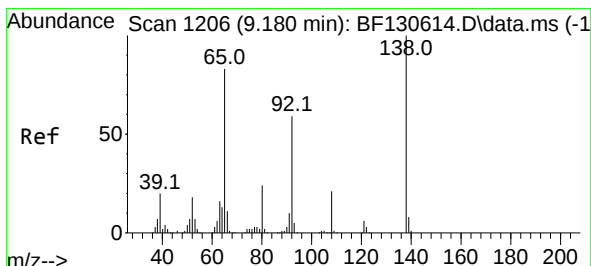
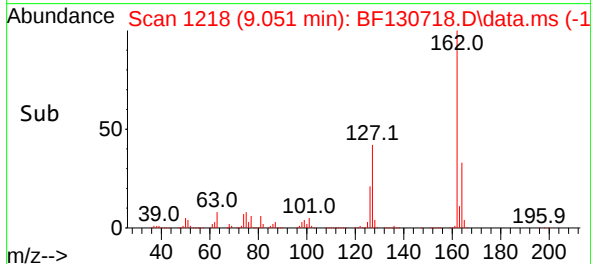
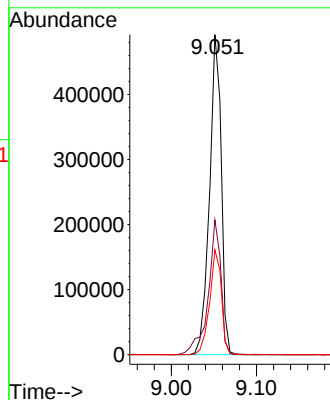
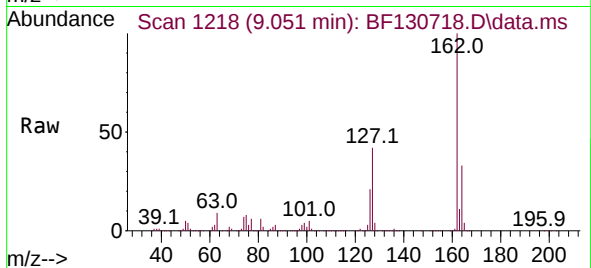
HAS-SOIL-1013MSD

Tgt Ion:162 Resp: 470991
 Ion Ratio Lower Upper
 162 100
 127 42.1 32.6 49.0
 164 32.7 26.3 39.5

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 10/20/2022
 Supervised By :mohammad ahmed 10/20/2022



#48

2-Nitroaniline

Concen: 53.430 ng

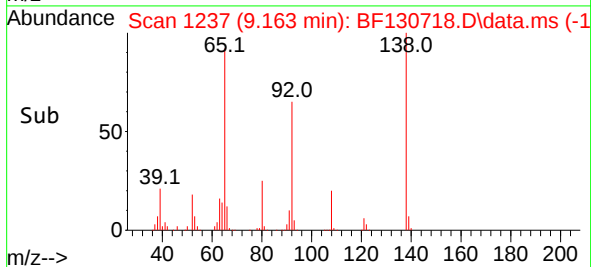
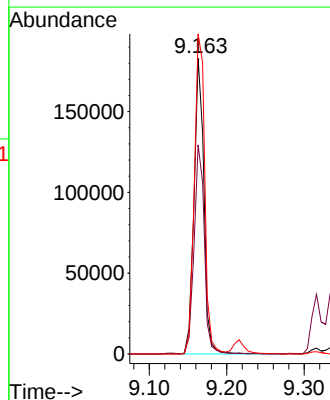
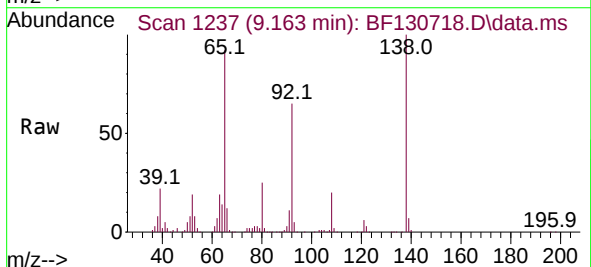
RT: 9.163 min Scan# 1237

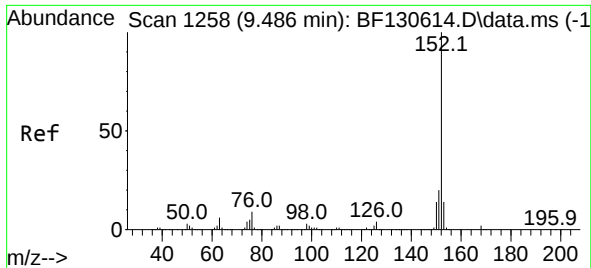
Delta R.T. -0.006 min

Lab File: BF130718.D

Acq: 19 Oct 2022 19:00

Tgt Ion: 65 Resp: 161897
 Ion Ratio Lower Upper
 65 100
 92 70.7 57.4 86.0
 138 108.3 96.7 145.1





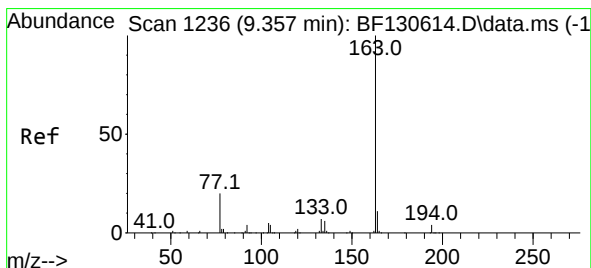
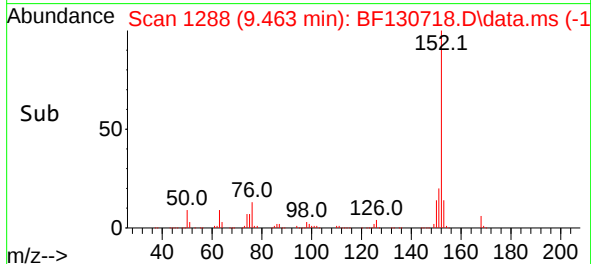
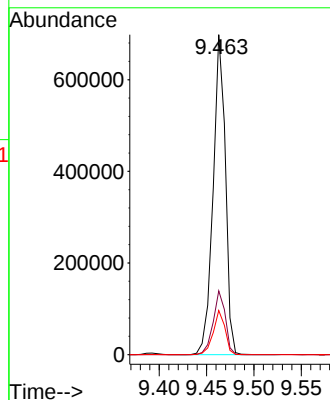
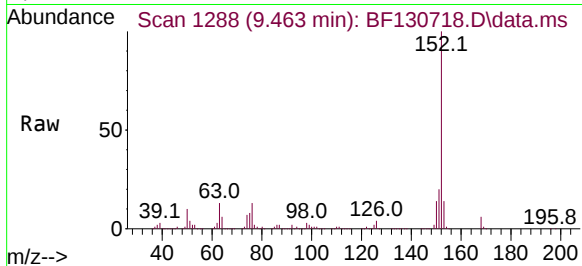
#49
Acenaphthylene
Concen: 41.932 ng
RT: 9.463 min Scan# 1258
Delta R.T. -0.006 min
Lab File: BF130718.D
Acq: 19 Oct 2022 19:00

Instrument :
BNA_F
ClientSampleId :
HAS-SOIL-1013MSD

Tgt Ion:152 Resp: 632417
Ion Ratio Lower Upper
152 100
151 19.9 16.2 24.2
153 13.8 10.8 16.2

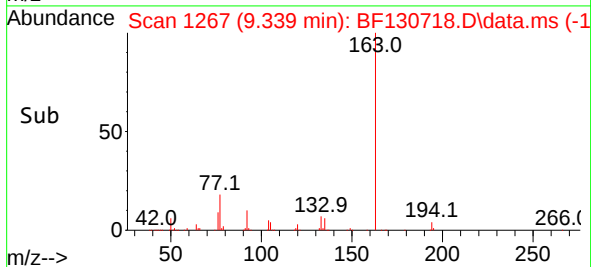
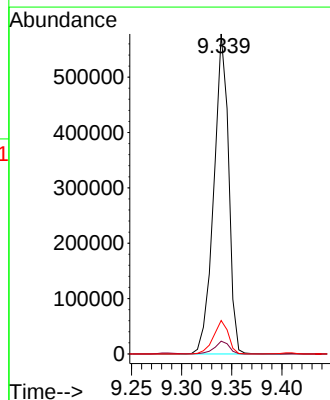
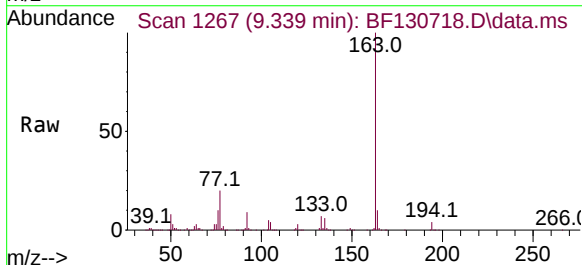
Manual Integrations
APPROVED

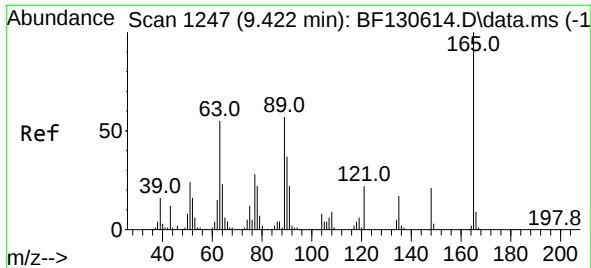
Reviewed By :Christian Giraldo 10/20/2022
Supervised By :mohammad ahmed 10/20/2022



#50
Dimethylphthalate
Concen: 50.465 ng
RT: 9.339 min Scan# 1267
Delta R.T. -0.006 min
Lab File: BF130718.D
Acq: 19 Oct 2022 19:00

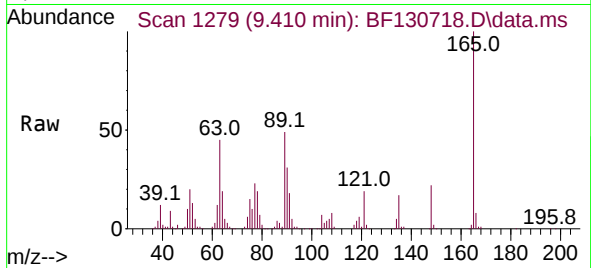
Tgt Ion:163 Resp: 593670
Ion Ratio Lower Upper
163 100
194 4.0 3.0 4.6
164 10.5 8.5 12.7





#51
2,6-Dinitrotoluene
Concen: 43.702 ng
RT: 9.410 min Scan# 112772
Delta R.T. -0.000 min
Lab File: BF130718.D
Acq: 19 Oct 2022 19:00

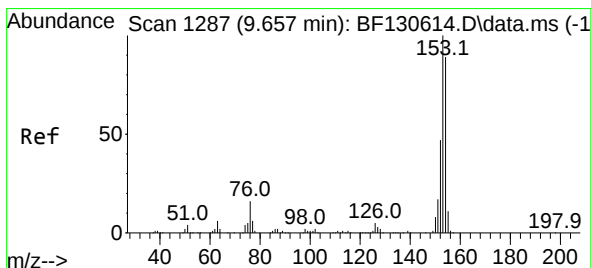
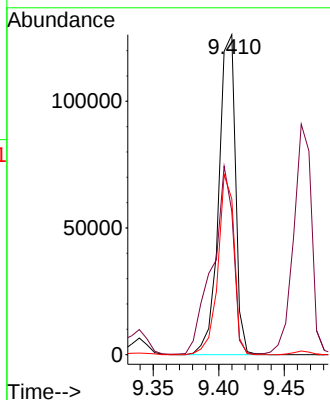
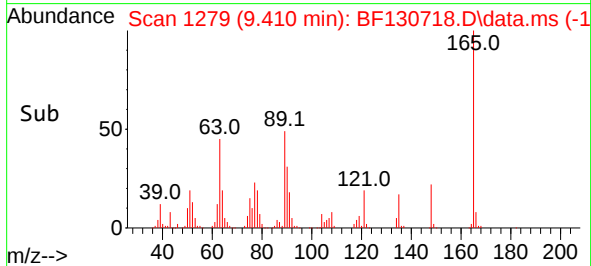
Instrument :
BNA_F
ClientSampleId :
HAS-SOIL-1013MSD



Tgt Ion:165 Resp: 112772
Ion Ratio Lower Upper
165 100
63 44.8 45.3 67.9
89 48.6 45.6 68.4

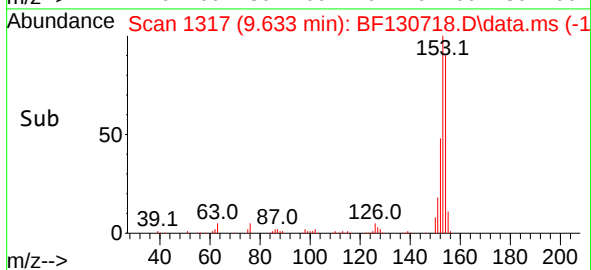
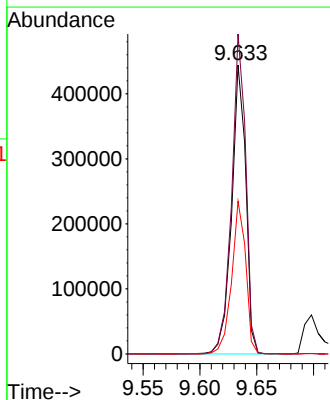
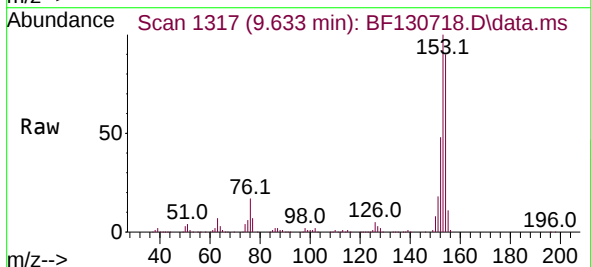
Manual Integrations
APPROVED

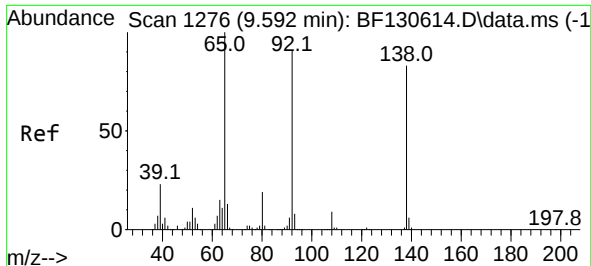
Reviewed By :Christian Giraldo 10/20/2022
Supervised By :mohammad ahmed 10/20/2022



#52
Acenaphthene
Concen: 42.174 ng
RT: 9.633 min Scan# 1317
Delta R.T. -0.006 min
Lab File: BF130718.D
Acq: 19 Oct 2022 19:00

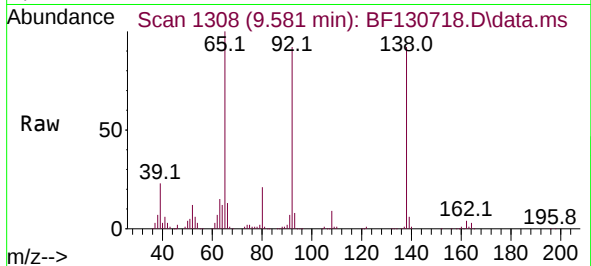
Tgt Ion:154 Resp: 385378
Ion Ratio Lower Upper
154 100
153 110.8 89.6 134.4
152 52.9 42.4 63.6





#53
3-Nitroaniline
Concen: 30.251 ng
RT: 9.581 min Scan# 1308
Delta R.T. -0.000 min
Lab File: BF130718.D
Acq: 19 Oct 2022 19:00

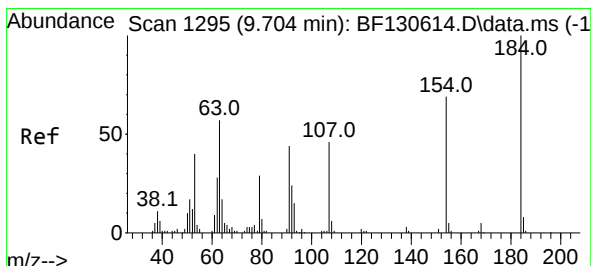
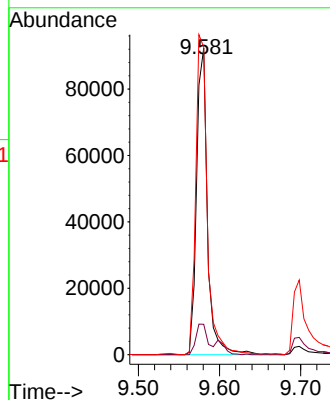
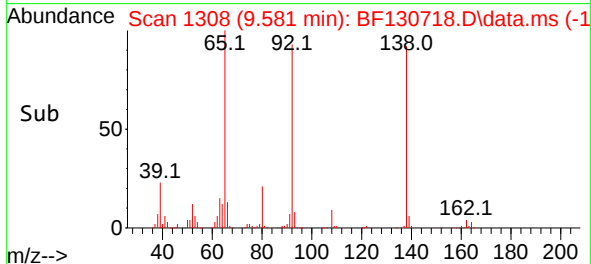
Instrument :
BNA_F
ClientSampleId :
HAS-SOIL-1013MSD



Tgt Ion:138 Resp: 85576
Ion Ratio Lower Upper
138 100
108 9.9 8.4 12.6
92 100.3 88.2 132.4

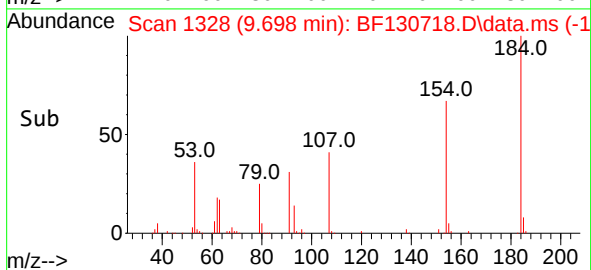
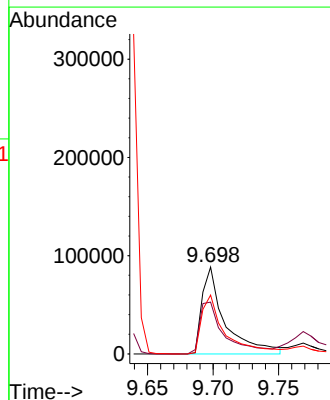
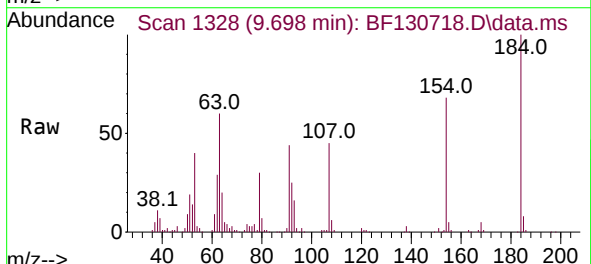
Manual Integrations
APPROVED

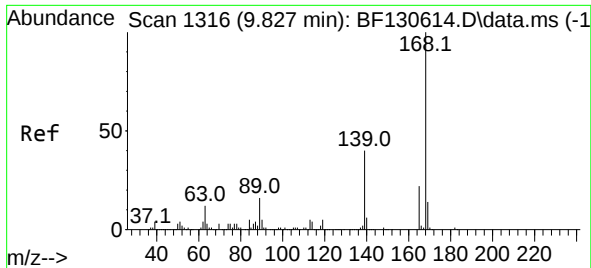
Reviewed By :Christian Giraldo 10/20/2022
Supervised By :mohammad ahmed 10/20/2022



#54
2,4-Dinitrophenol
Concen: 81.909 ng
RT: 9.698 min Scan# 1328
Delta R.T. -0.000 min
Lab File: BF130718.D
Acq: 19 Oct 2022 19:00

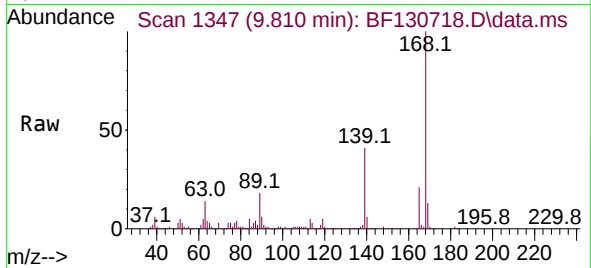
Tgt Ion:184 Resp: 107872
Ion Ratio Lower Upper
184 100
63 59.7 45.5 68.3
154 67.7 55.1 82.7





#55
Dibenzenofuran
Concen: 43.181 ng
RT: 9.810 min Scan# 1316
Delta R.T. -0.006 min
Lab File: BF130718.D
Acq: 19 Oct 2022 19:00

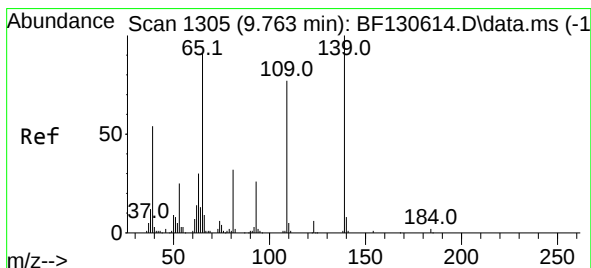
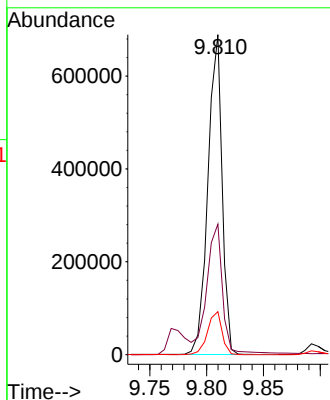
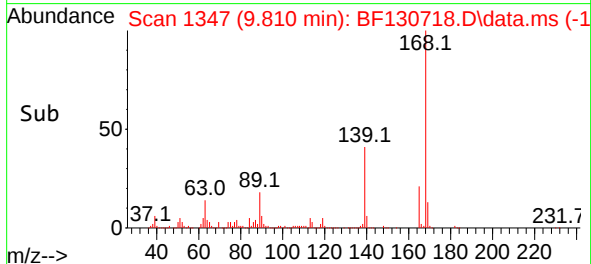
Instrument :
BNA_F
ClientSampleId :
HAS-SOIL-1013MSD



Tgt Ion:168 Resp: 601090
Ion Ratio Lower Upper
168 100
139 40.8 33.0 49.4
169 13.5 10.9 16.3

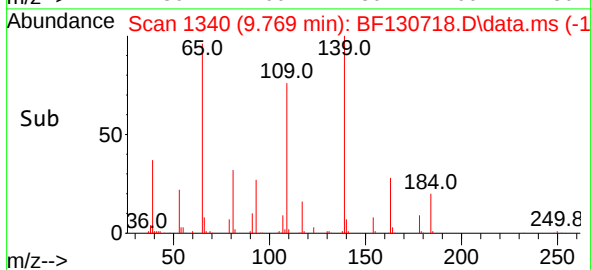
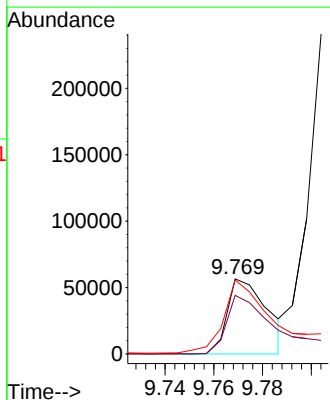
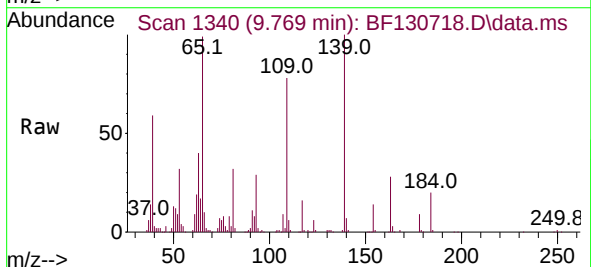
Manual Integrations
APPROVED

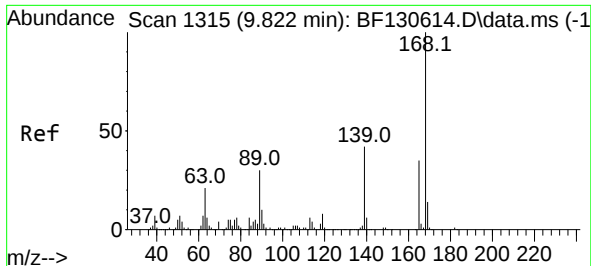
Reviewed By :Christian Giraldo 10/20/2022
Supervised By :mohammad ahmed 10/20/2022



#56
4-Nitrophenol
Concen: 41.193 ng
RT: 9.769 min Scan# 1340
Delta R.T. 0.012 min
Lab File: BF130718.D
Acq: 19 Oct 2022 19:00

Tgt Ion:139 Resp: 64247
Ion Ratio Lower Upper
139 100
109 77.9 57.4 97.4
65 98.5 71.3 111.3





#57

2,4-Dinitrotoluene

Concen: 45.732 ng

RT: 9.816 min Scan# 1315

Delta R.T. -0.000 min

Lab File: BF130718.D

Acq: 19 Oct 2022 19:00

Instrument :

BNA_F

ClientSampleId :

HAS-SOIL-1013MSD

Tgt Ion:165 Resp: 151668

Ion Ratio Lower Upper

165 100

63 40.1 50.6 76.0

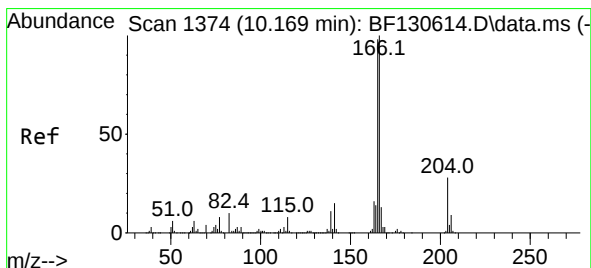
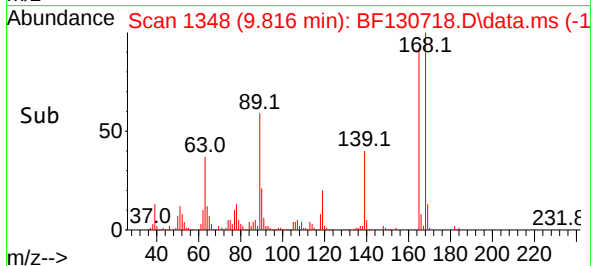
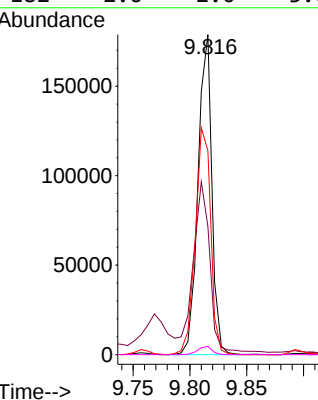
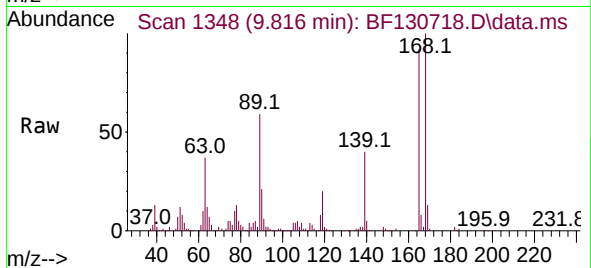
89 63.7 68.6 102.8

182 2.6 2.0 3.0

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 10/20/2022
Supervised By :mohammad ahmed 10/20/2022



#58

Fluorene

Concen: 48.028 ng

RT: 10.151 min Scan# 1405

Delta R.T. -0.006 min

Lab File: BF130718.D

Acq: 19 Oct 2022 19:00

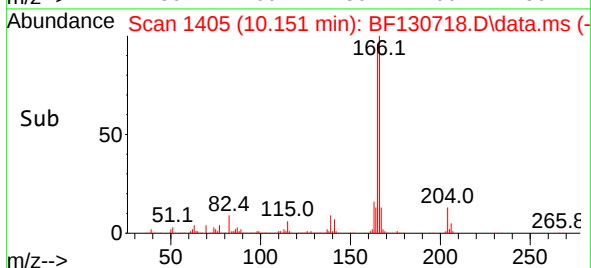
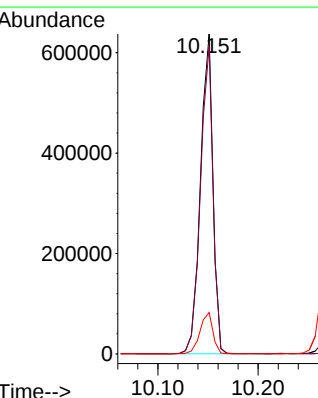
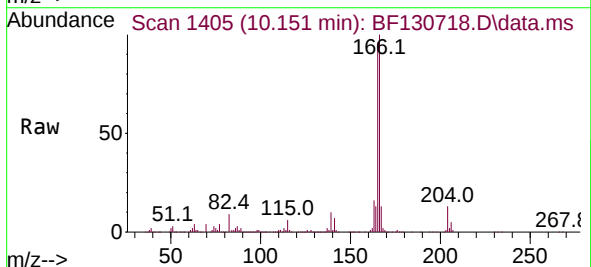
Tgt Ion:166 Resp: 549653

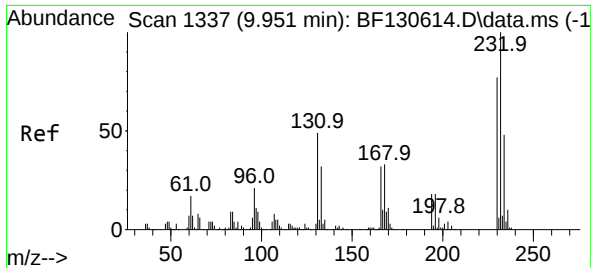
Ion Ratio Lower Upper

166 100

165 96.1 78.2 117.4

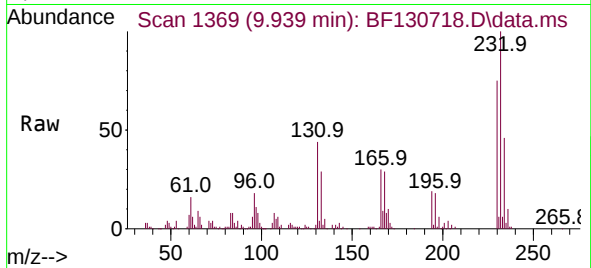
167 12.9 10.8 16.2





#59
2,3,4,6-Tetrachlorophenol
Concen: 43.191 ng
RT: 9.939 min Scan# 1337
Delta R.T. -0.000 min
Lab File: BF130718.D
Acq: 19 Oct 2022 19:00

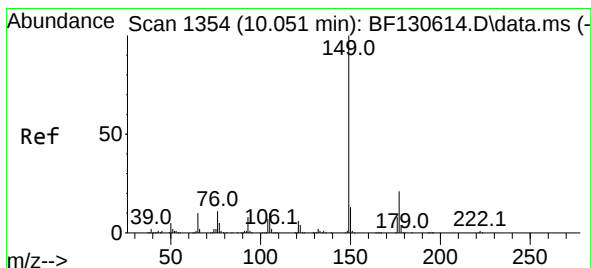
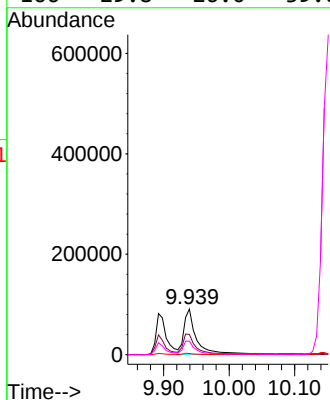
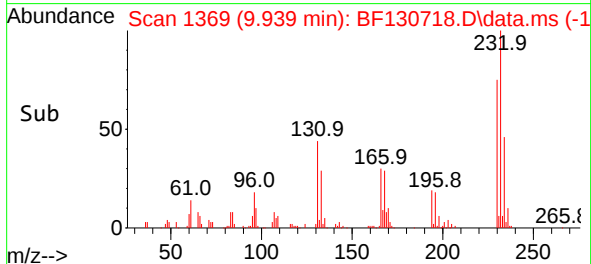
Instrument :
BNA_F
ClientSampleId :
HAS-SOIL-1013MSD



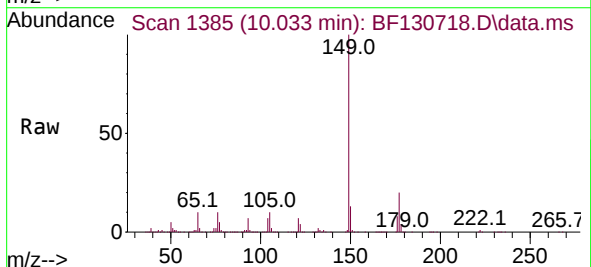
Tgt Ion:232 Resp: 117232
Ion Ratio Lower Upper
232 100
131 49.0 41.4 62.0
130 2.7 2.1 3.1
166 29.8 26.0 39.0

Manual Integrations
APPROVED

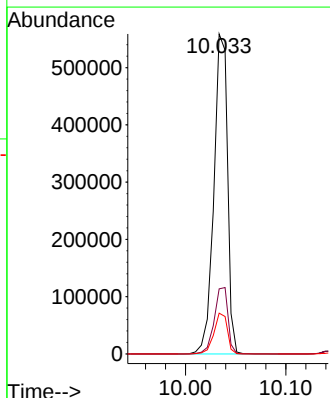
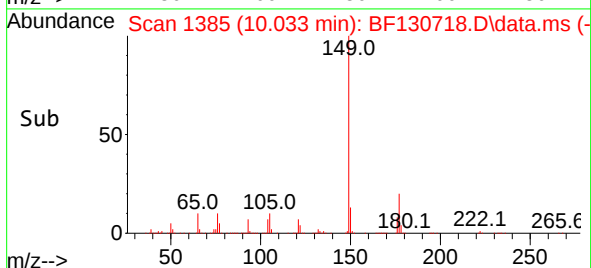
Reviewed By :Christian Giraldo 10/20/2022
Supervised By :mohammad ahmed 10/20/2022

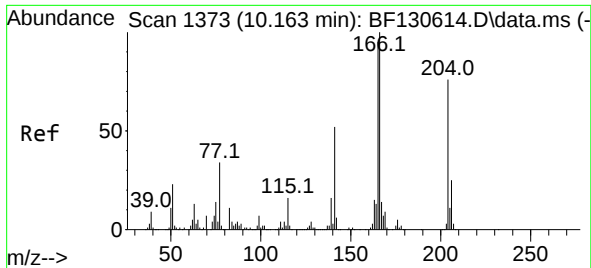


#60
Diethylphthalate
Concen: 44.920 ng
RT: 10.033 min Scan# 1385
Delta R.T. -0.006 min
Lab File: BF130718.D
Acq: 19 Oct 2022 19:00



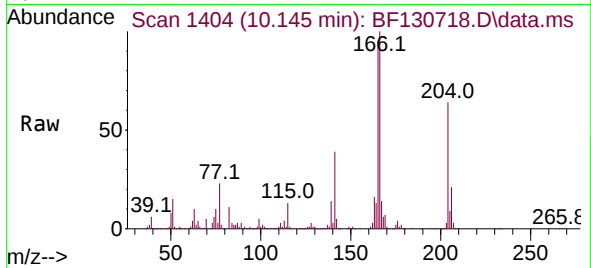
Tgt Ion:149 Resp: 527247
Ion Ratio Lower Upper
149 100
177 20.4 16.7 25.1
150 12.7 10.5 15.7





#61
4-Chlorophenyl-phenylether
Concen: 48.577 ng
RT: 10.145 min Scan# 1411
Delta R.T. -0.006 min
Lab File: BF130718.D
Acq: 19 Oct 2022 19:00

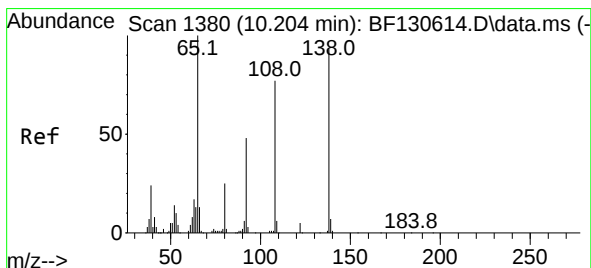
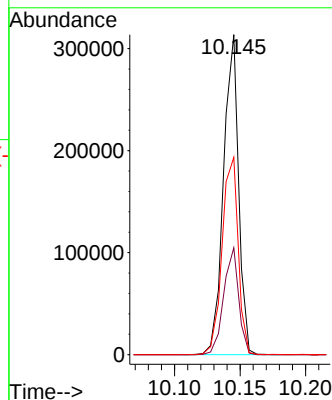
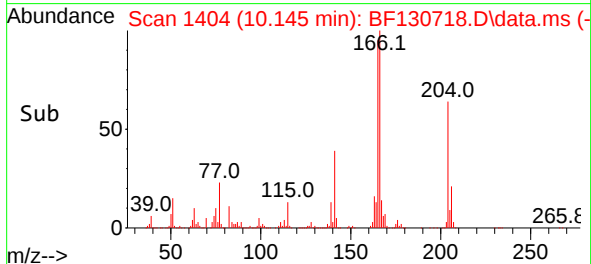
Instrument :
BNA_F
ClientSampleId :
HAS-SOIL-1013MSD



Tgt Ion:204 Resp: 251339
Ion Ratio Lower Upper
204 100
206 33.4 26.1 39.1
141 61.6 54.6 81.8

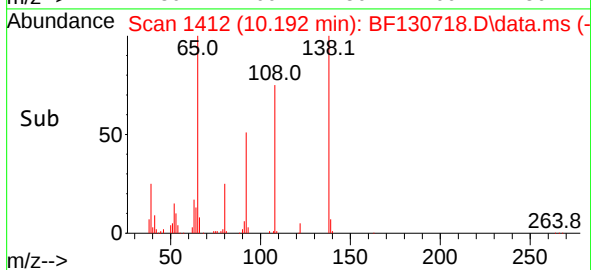
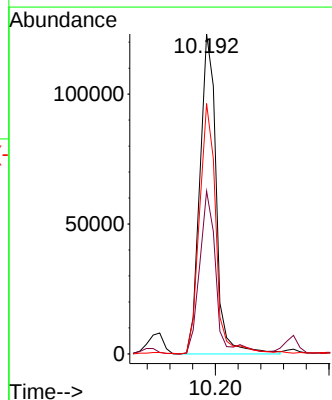
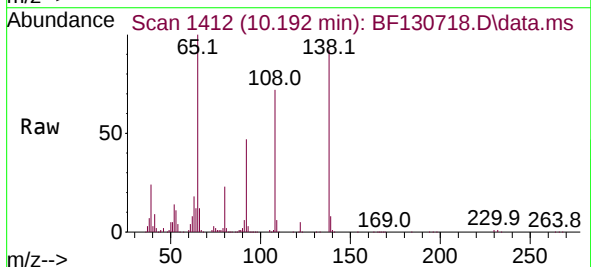
Manual Integrations
APPROVED

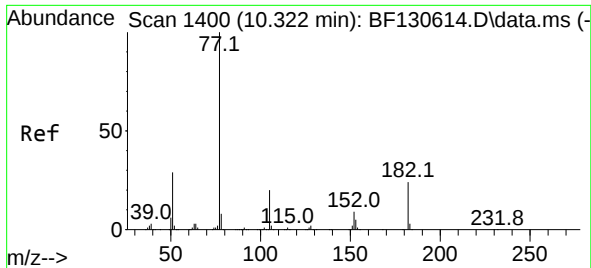
Reviewed By :Christian Giraldo 10/20/2022
Supervised By :mohammad ahmed 10/20/2022



#62
4-Nitroaniline
Concen: 45.551 ng
RT: 10.192 min Scan# 1412
Delta R.T. -0.000 min
Lab File: BF130718.D
Acq: 19 Oct 2022 19:00

Tgt Ion:138 Resp: 123018
Ion Ratio Lower Upper
138 100
92 50.9 31.1 71.1
108 78.2 62.1 102.1





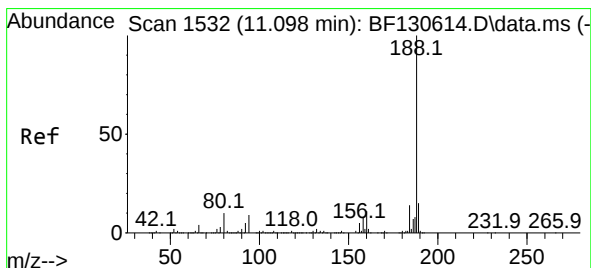
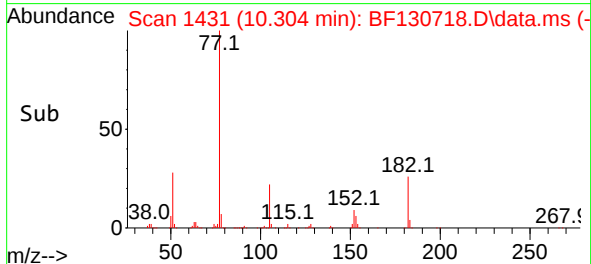
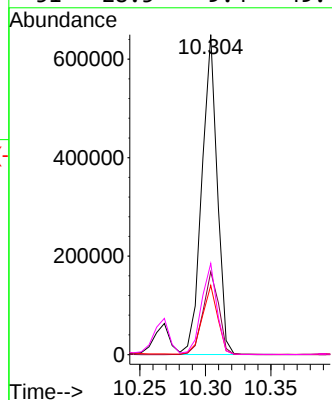
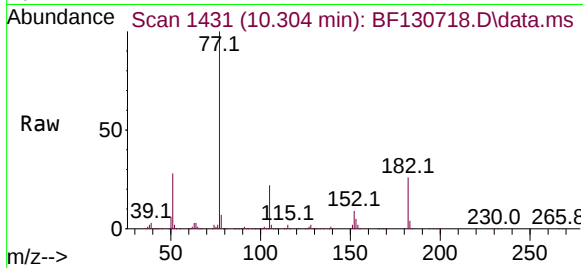
#63
Azobenzene
Concen: 47.648 ng
RT: 10.304 min Scan# 1400
Delta R.T. -0.006 min
Lab File: BF130718.D
Acq: 19 Oct 2022 19:00

Instrument :
BNA_F
ClientSampleId :
HAS-SOIL-1013MSD

Tgt Ion: 77 Resp: 526756
Ion Ratio Lower Upper
77 100
182 25.9 3.8 43.8
105 21.6 0.3 40.3
51 28.5 9.4 49.4

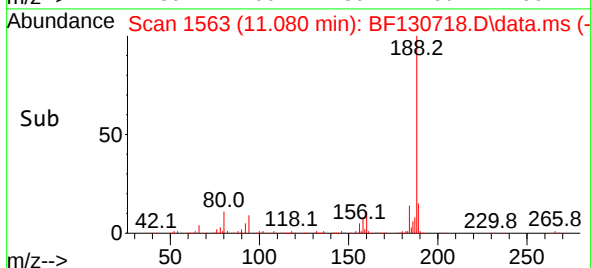
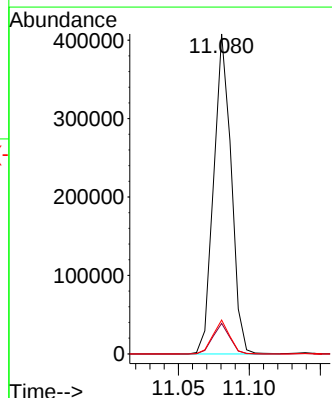
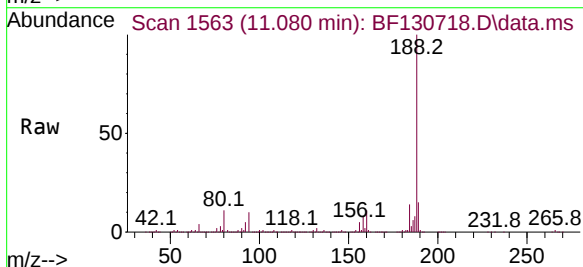
Manual Integrations
APPROVED

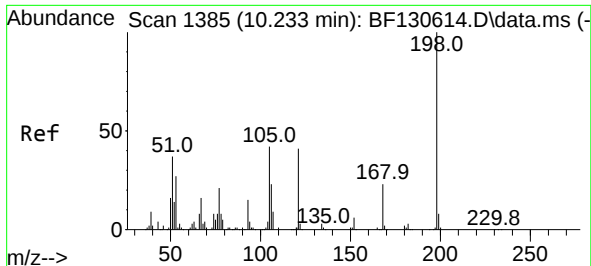
Reviewed By :Christian Giraldo 10/20/2022
Supervised By :mohammad ahmed 10/20/2022



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.080 min Scan# 1563
Delta R.T. -0.006 min
Lab File: BF130718.D
Acq: 19 Oct 2022 19:00

Tgt Ion:188 Resp: 348606
Ion Ratio Lower Upper
188 100
94 9.5 7.4 11.2
80 10.6 8.0 12.0





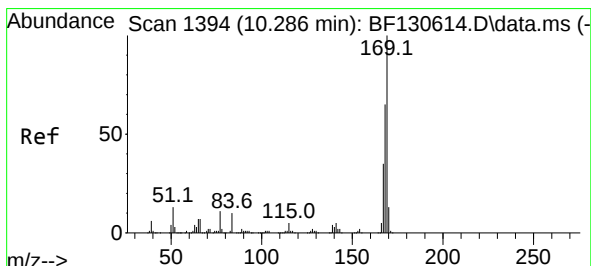
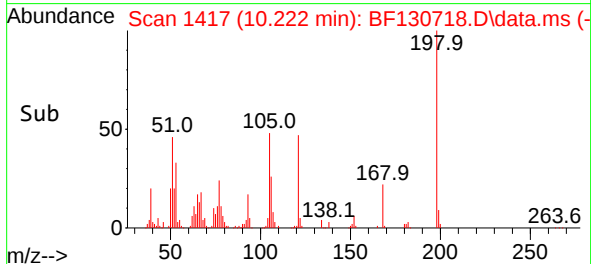
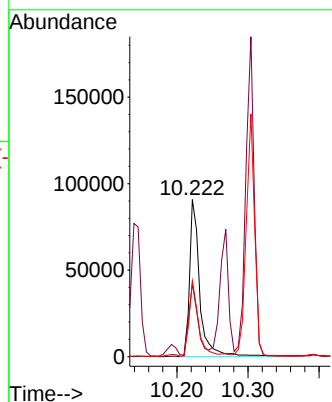
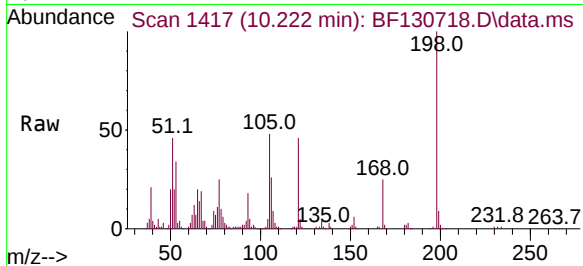
#65
4,6-Dinitro-2-methylphenol
Concen: 41.653 ng
RT: 10.222 min Scan# 1417
Delta R.T. -0.000 min
Lab File: BF130718.D
Acq: 19 Oct 2022 19:00

Instrument :
BNA_F
ClientSampleId :
HAS-SOIL-1013MSD

Tgt Ion:198 Resp: 90741
Ion Ratio Lower Upper
198 100
51 46.4 18.7 58.7
105 48.2 22.0 62.0

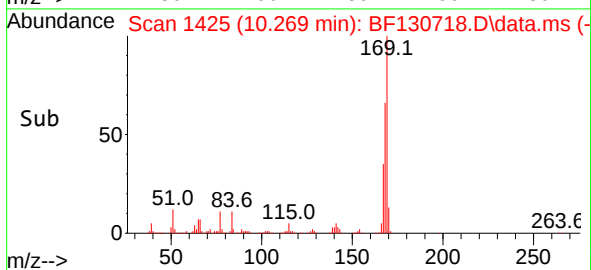
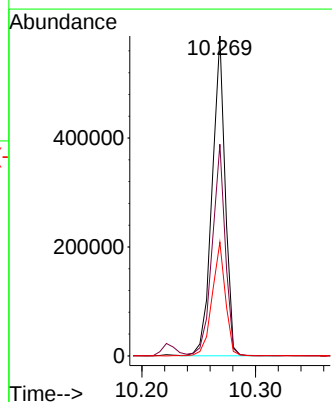
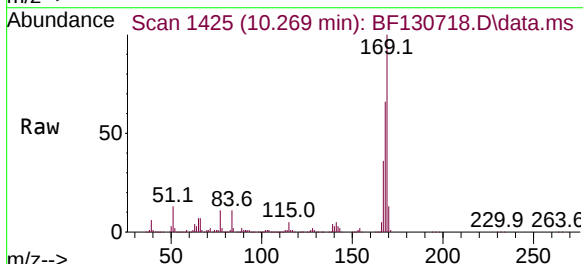
Manual Integrations
APPROVED

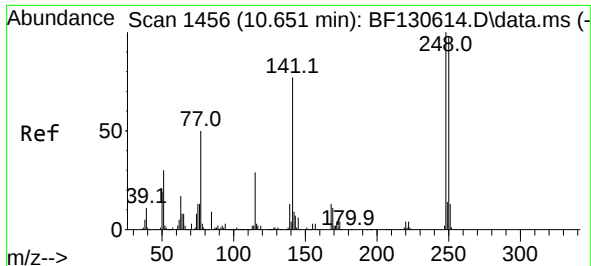
Reviewed By :Christian Giraldo 10/20/2022
Supervised By :mohammad ahmed 10/20/2022



#66
n-Nitrosodiphenylamine
Concen: 40.484 ng
RT: 10.269 min Scan# 1425
Delta R.T. -0.006 min
Lab File: BF130718.D
Acq: 19 Oct 2022 19:00

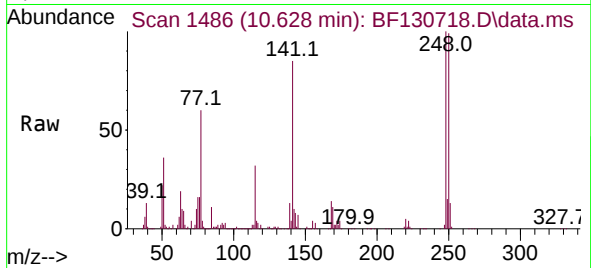
Tgt Ion:169 Resp: 469452
Ion Ratio Lower Upper
169 100
168 66.1 52.2 78.4
167 35.6 28.3 42.5





#67
4-Bromophenyl-phenylether
Concen: 42.334 ng
RT: 10.628 min Scan# 1456
Delta R.T. -0.012 min
Lab File: BF130718.D
Acq: 19 Oct 2022 19:00

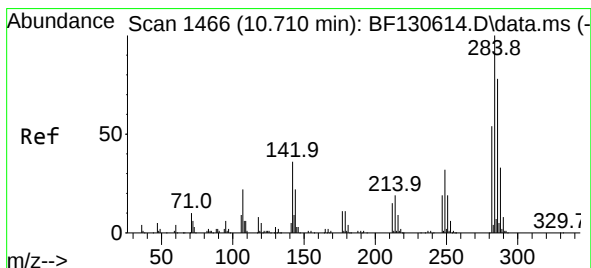
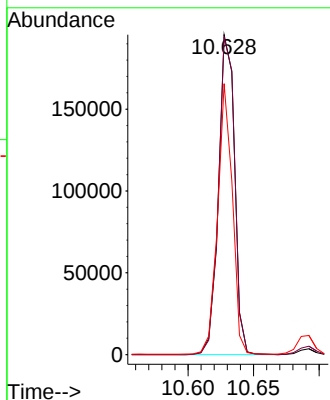
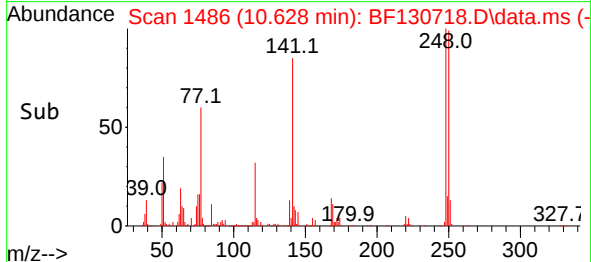
Instrument :
BNA_F
ClientSampleId :
HAS-SOIL-1013MSD



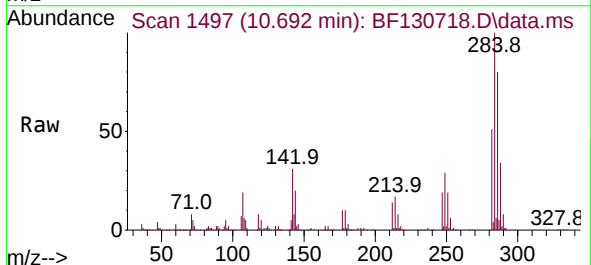
Tgt Ion:248 Resp: 166983
Ion Ratio Lower Upper
248 100
250 99.2 78.7 118.1
141 84.7 61.6 92.4

Manual Integrations
APPROVED

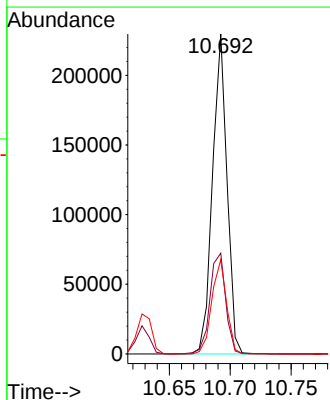
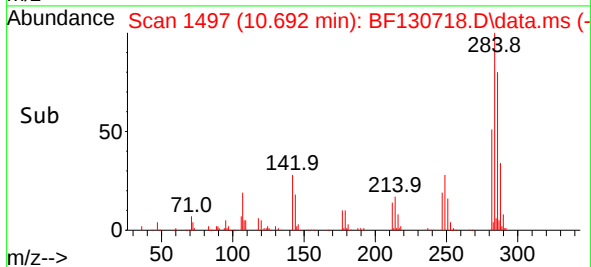
Reviewed By :Christian Giraldo 10/20/2022
Supervised By :mohammad ahmed 10/20/2022

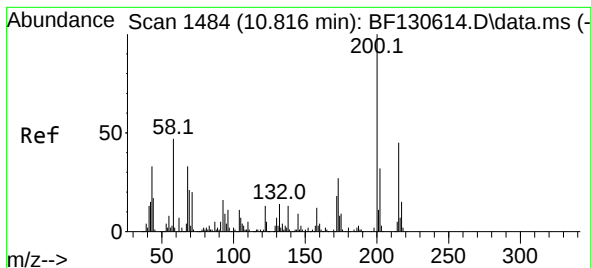


#68
Hexachlorobenzene
Concen: 42.675 ng
RT: 10.692 min Scan# 1497
Delta R.T. -0.006 min
Lab File: BF130718.D
Acq: 19 Oct 2022 19:00



Tgt Ion:284 Resp: 190284
Ion Ratio Lower Upper
284 100
142 31.5 28.6 42.8
249 29.4 25.2 37.8





#69

Atrazine

Concen: 45.227 ng

RT: 10.804 min Scan# 14281

Delta R.T. -0.000 min

Lab File: BF130718.D

Acq: 19 Oct 2022 19:00

Instrument :

BNA_F

ClientSampleId :

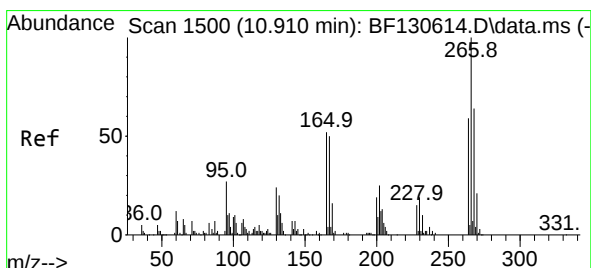
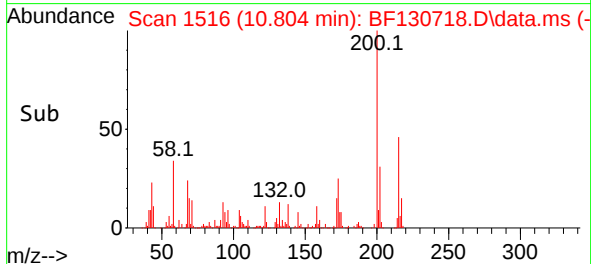
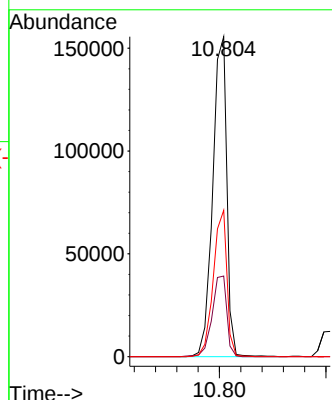
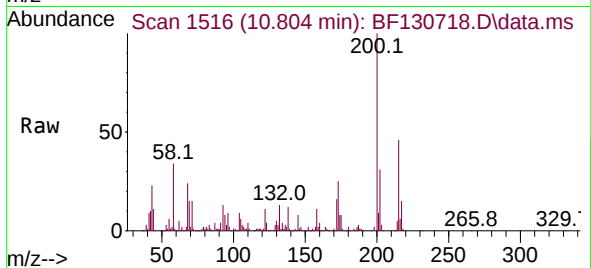
HAS-SOIL-1013MSD

Tgt Ion:	200	Resp:	14281
Ion Ratio	Lower	Upper	
200	100		
173	25.2	7.1	47.1
215	45.7	24.9	64.9

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 10/20/2022
Supervised By :mohammad ahmed 10/20/2022



#70

Pentachlorophenol

Concen: 72.688 ng

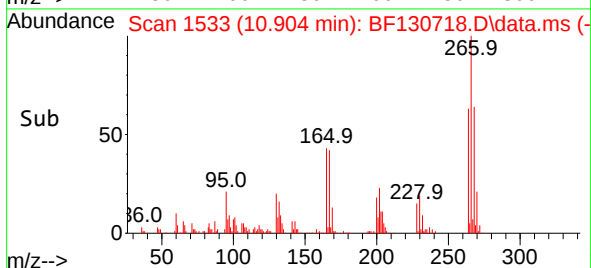
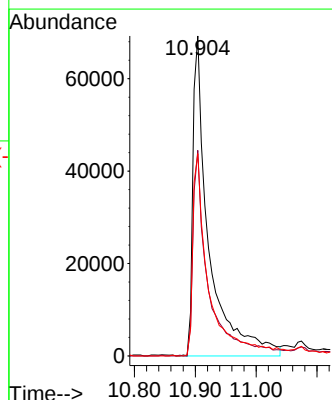
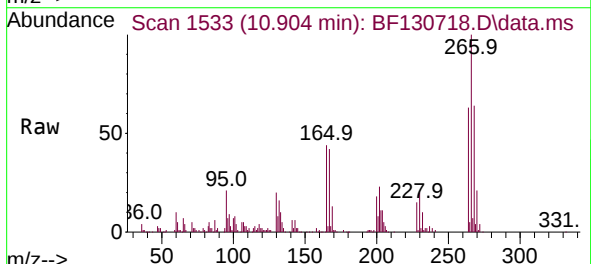
RT: 10.904 min Scan# 1533

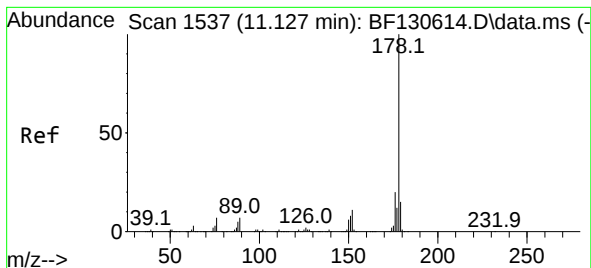
Delta R.T. -0.000 min

Lab File: BF130718.D

Acq: 19 Oct 2022 19:00

Tgt Ion:	266	Resp:	126143
Ion Ratio	Lower	Upper	
266	100		
268	64.2	50.8	76.2
264	63.2	47.5	71.3





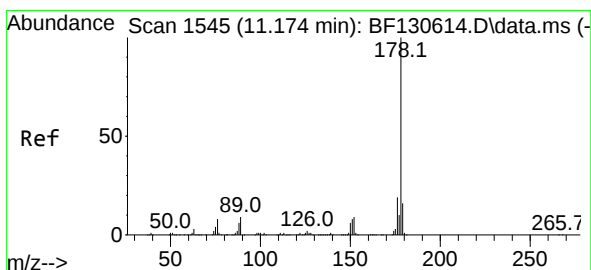
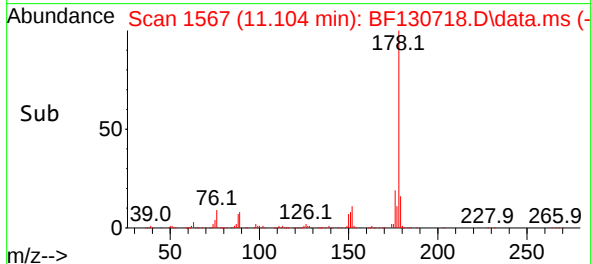
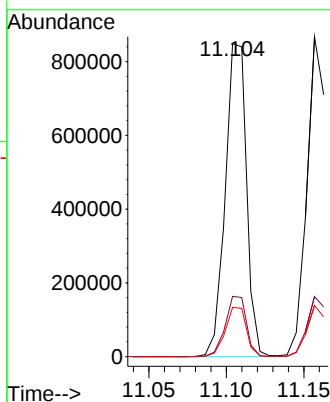
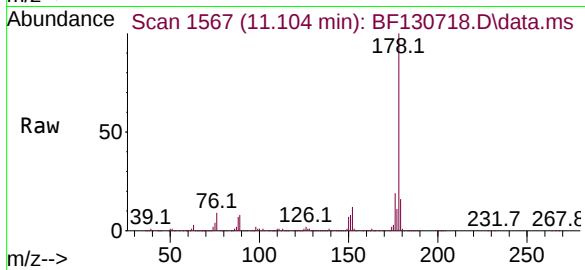
#71
Phenanthrene
Concen: 41.999 ng
RT: 11.104 min Scan# 1537
Delta R.T. -0.006 min
Lab File: BF130718.D
Acq: 19 Oct 2022 19:00

Instrument :
BNA_F
ClientSampleId :
HAS-SOIL-1013MSD

Tgt Ion:178 Resp: 811164
Ion Ratio Lower Upper
178 100
176 19.3 15.7 23.5
179 15.7 12.2 18.4

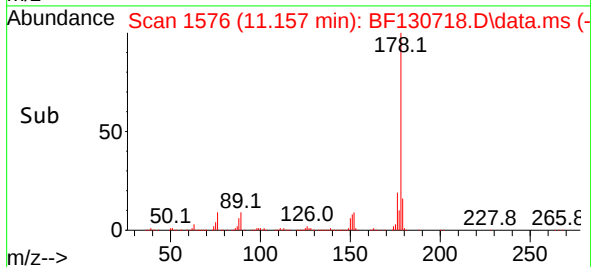
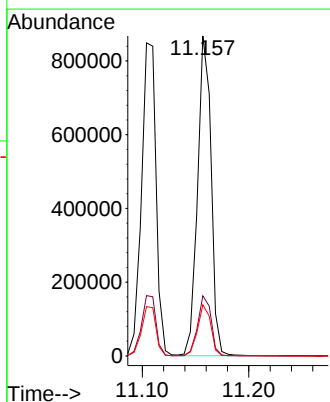
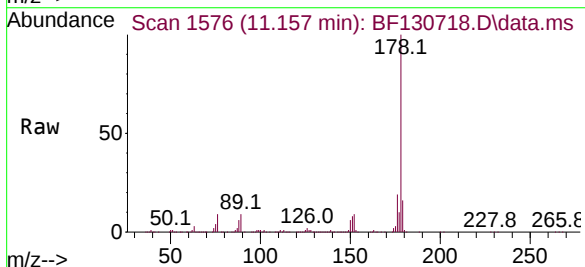
Manual Integrations
APPROVED

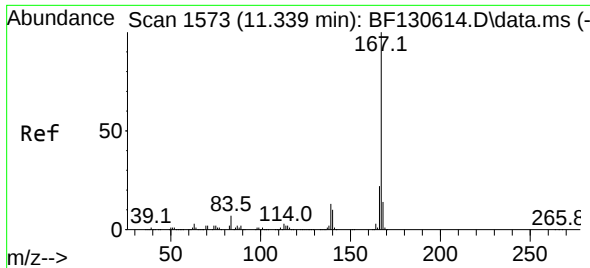
Reviewed By :Christian Giraldo 10/20/2022
Supervised By :mohammad ahmed 10/20/2022



#72
Anthracene
Concen: 40.443 ng
RT: 11.157 min Scan# 1576
Delta R.T. -0.006 min
Lab File: BF130718.D
Acq: 19 Oct 2022 19:00

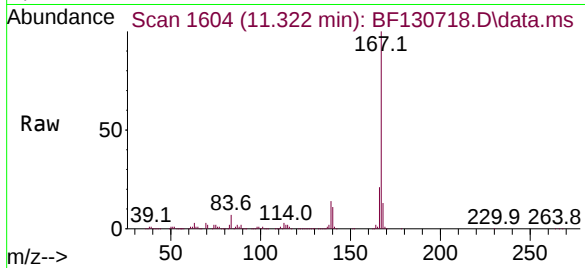
Tgt Ion:178 Resp: 762866
Ion Ratio Lower Upper
178 100
176 18.8 15.0 22.4
179 16.0 12.5 18.7





#73
 Carbazole
 Concen: 38.790 ng
 RT: 11.322 min Scan# 1604
 Delta R.T. -0.006 min
 Lab File: BF130718.D
 Acq: 19 Oct 2022 19:00

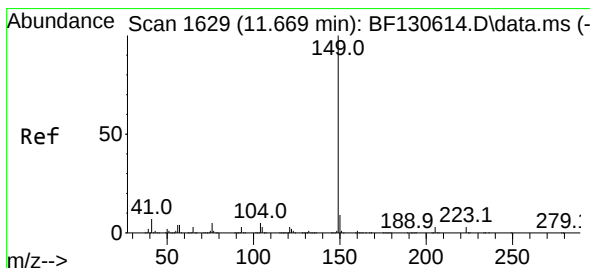
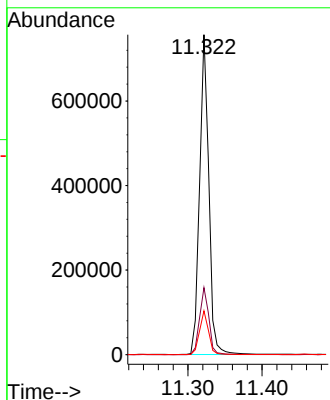
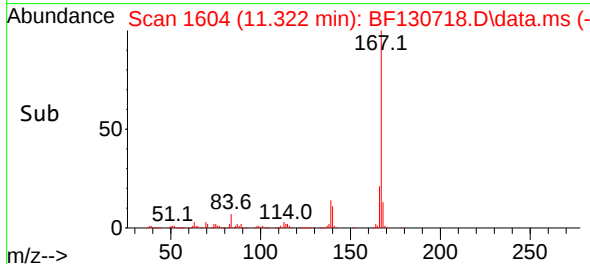
Instrument :
 BNA_F
 ClientSampleId :
 HAS-SOIL-1013MSD



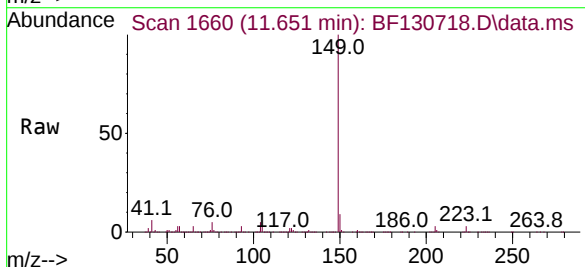
Tgt Ion:167 Resp: 652906
 Ion Ratio Lower Upper
 167 100
 166 20.9 17.3 25.9
 139 13.7 10.7 16.1

Manual Integrations
 APPROVED

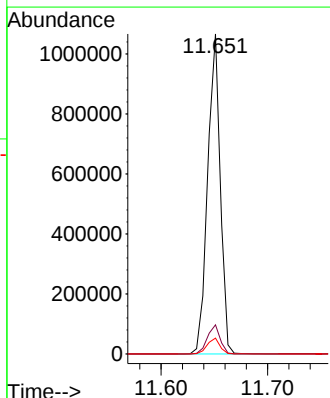
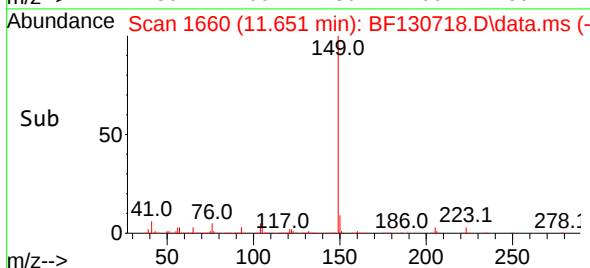
Reviewed By :Christian Giraldo 10/20/2022
 Supervised By :mohammad ahmed 10/20/2022

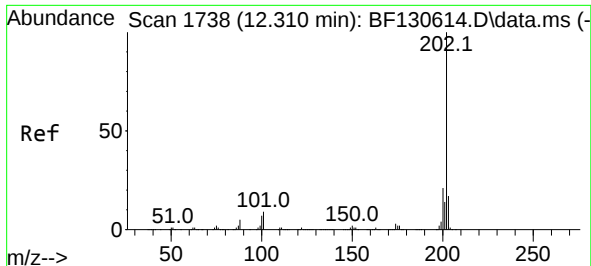


#74
 Di-n-butylphthalate
 Concen: 42.930 ng
 RT: 11.651 min Scan# 1660
 Delta R.T. -0.006 min
 Lab File: BF130718.D
 Acq: 19 Oct 2022 19:00



Tgt Ion:149 Resp: 875277
 Ion Ratio Lower Upper
 149 100
 150 9.1 7.5 11.3
 104 4.9 4.2 6.2





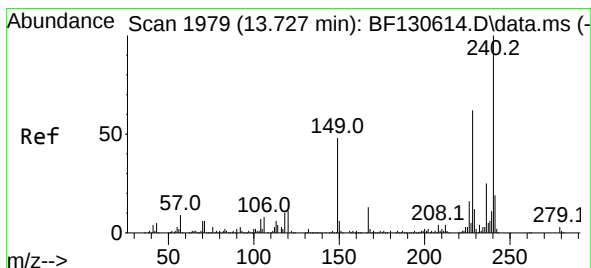
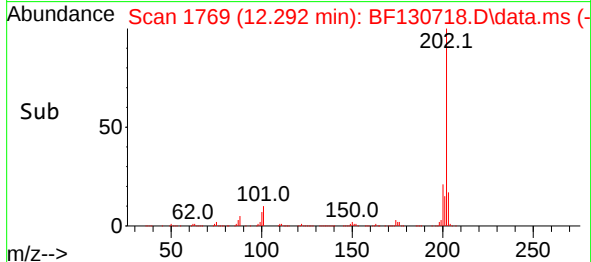
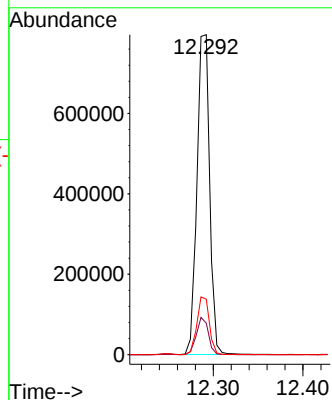
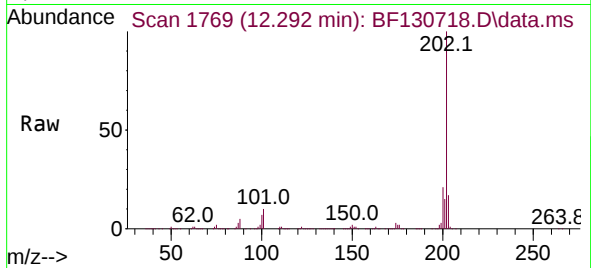
#75
Fluoranthene
Concen: 42.036 ng
RT: 12.292 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF130718.D
Acq: 19 Oct 2022 19:00

Instrument :
BNA_F
ClientSampleId :
HAS-SOIL-1013MSD

Tgt Ion:202 Resp: 780299
Ion Ratio Lower Upper
202 100
101 9.8 0.0 29.1
203 17.3 0.0 37.3

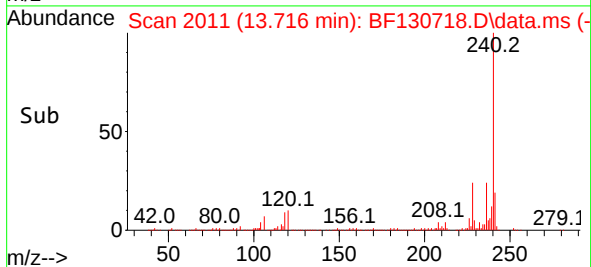
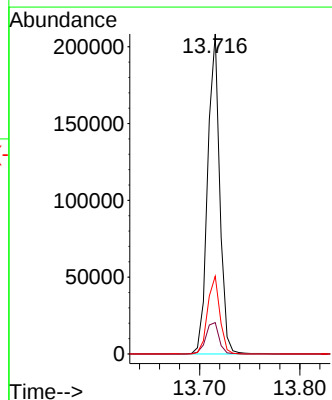
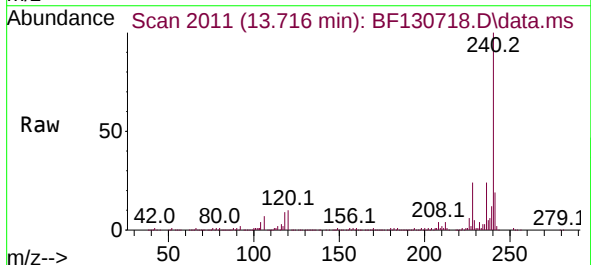
Manual Integrations
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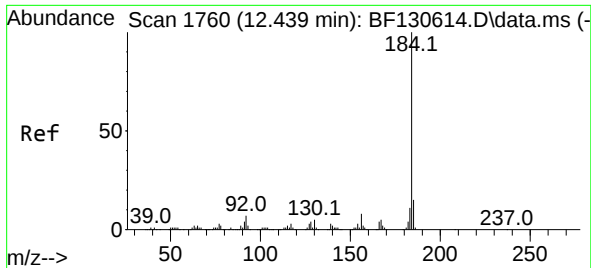
Reviewed By :Christian Giraldo 10/20/2022
Supervised By :mohammad ahmed 10/20/2022



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.716 min Scan# 2011
Delta R.T. -0.006 min
Lab File: BF130718.D
Acq: 19 Oct 2022 19:00

Tgt Ion:240 Resp: 173110
Ion Ratio Lower Upper
240 100
120 9.8 8.6 13.0
236 24.3 20.2 30.4





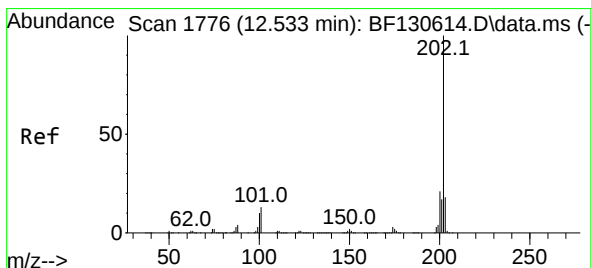
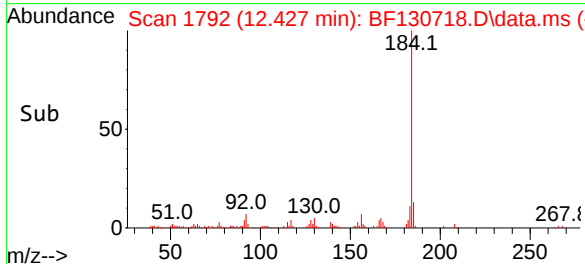
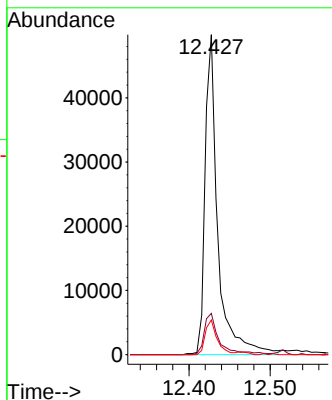
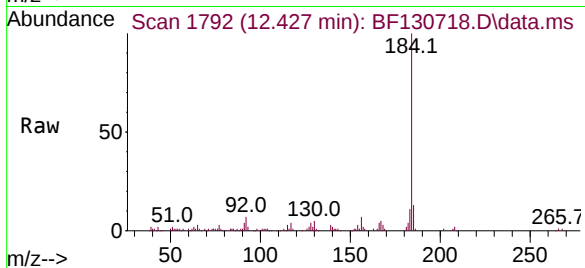
#77
Benzidine
Concen: 12.385 ng
RT: 12.427 min Scan# 1760
Delta R.T. -0.000 min
Lab File: BF130718.D
Acq: 19 Oct 2022 19:00

Instrument :
BNA_F
ClientSampleId :
HAS-SOIL-1013MSD

Tgt Ion:184 Resp: 54193
Ion Ratio Lower Upper
184 100
185 12.9 12.0 18.0
183 10.8 9.0 13.4

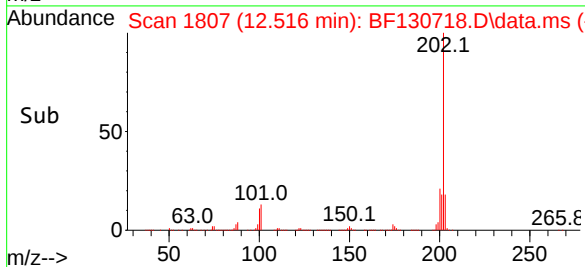
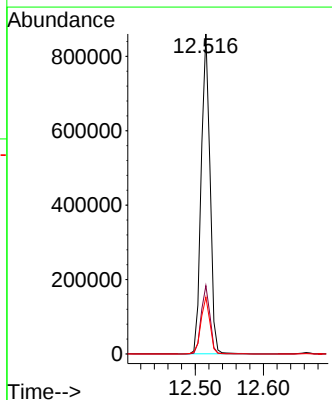
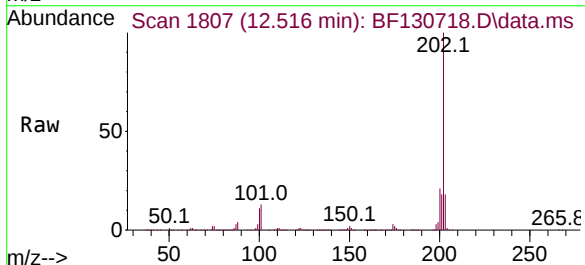
Manual Integrations
APPROVED

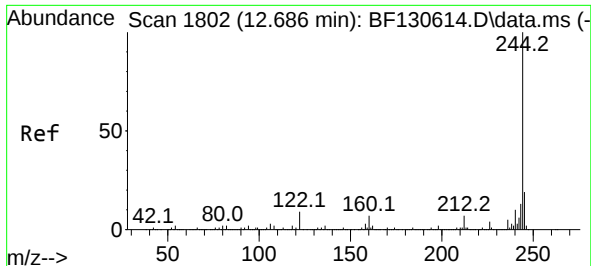
Reviewed By :Christian Giraldo 10/20/2022
Supervised By :mohammad ahmed 10/20/2022



#78
Pyrene
Concen: 51.611 ng
RT: 12.516 min Scan# 1807
Delta R.T. -0.006 min
Lab File: BF130718.D
Acq: 19 Oct 2022 19:00

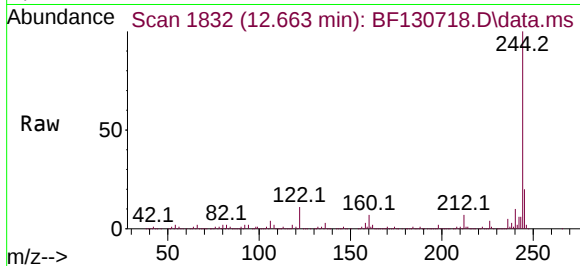
Tgt Ion:202 Resp: 770781
Ion Ratio Lower Upper
202 100
200 21.4 16.7 25.1
203 17.7 14.0 21.0





#79
 Terphenyl-d14
 Concen: 82.056 ng
 RT: 12.663 min Scan# 1802
 Delta R.T. -0.012 min
 Lab File: BF130718.D
 Acq: 19 Oct 2022 19:00

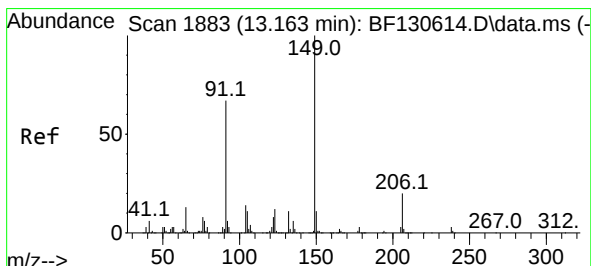
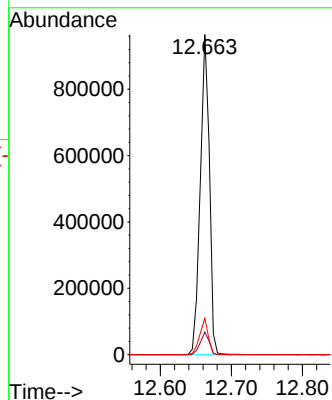
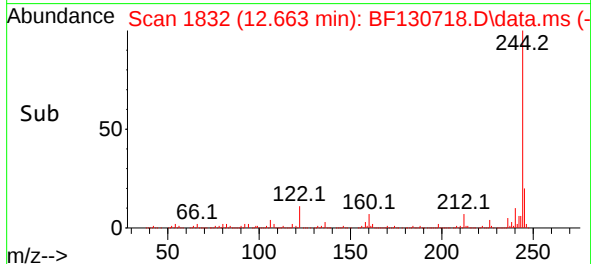
Instrument :
 BNA_F
 ClientSampleId :
 HAS-SOIL-1013MSD



Tgt Ion:244 Resp: 855844
 Ion Ratio Lower Upper
 244 100
 212 7.0 5.4 8.0
 122 11.3 7.5 11.3

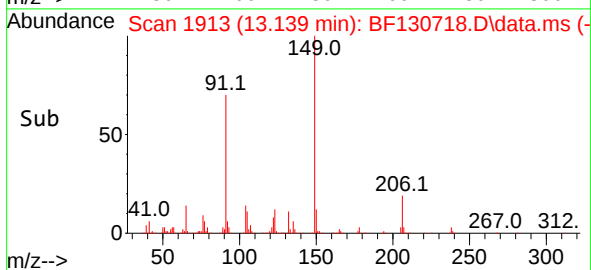
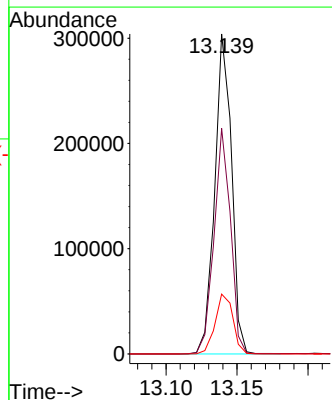
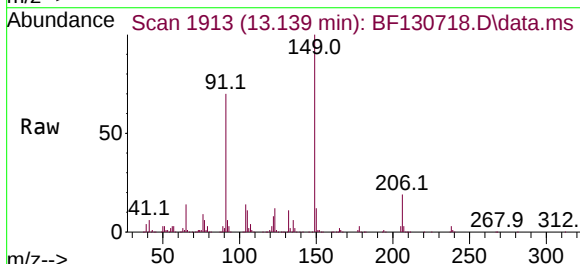
Manual Integrations
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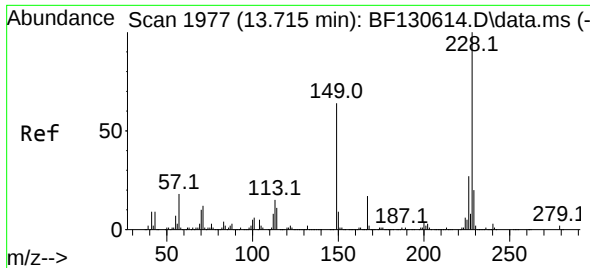
Reviewed By :Christian Giraldo 10/20/2022
 Supervised By :mohammad ahmed 10/20/2022



#80
 Butylbenzylphthalate
 Concen: 43.676 ng
 RT: 13.139 min Scan# 1913
 Delta R.T. -0.012 min
 Lab File: BF130718.D
 Acq: 19 Oct 2022 19:00

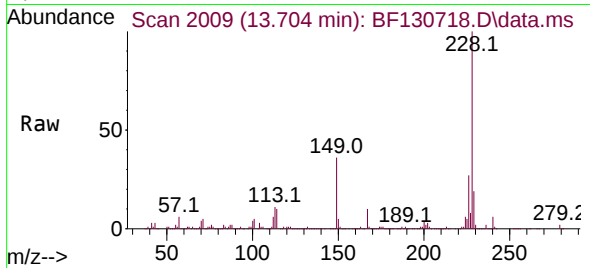
Tgt Ion:149 Resp: 250816
 Ion Ratio Lower Upper
 149 100
 91 70.5 53.8 80.8
 206 18.7 15.8 23.6





#81
Benzo(a)anthracene
Concen: 41.921 ng
RT: 13.704 min Scan# 2004
Delta R.T. -0.006 min
Lab File: BF130718.D
Acq: 19 Oct 2022 19:00

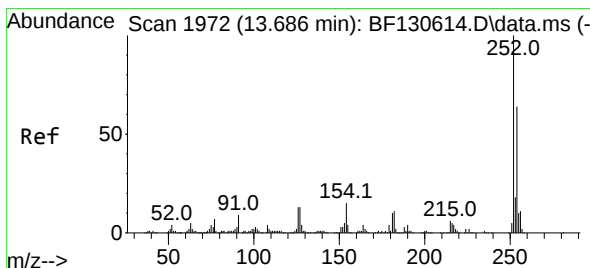
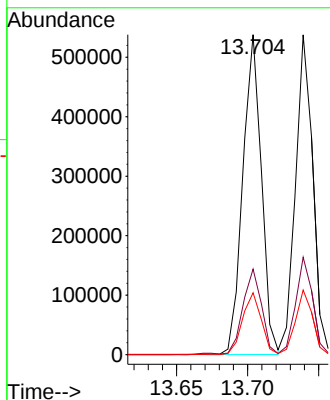
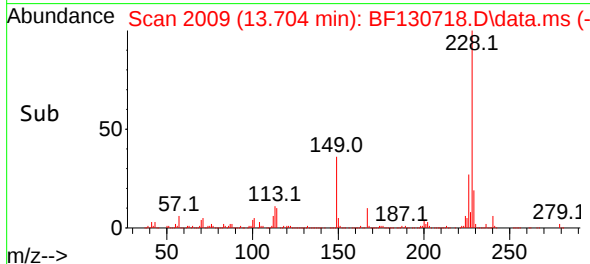
Instrument :
BNA_F
ClientSampleId :
HAS-SOIL-1013MSD



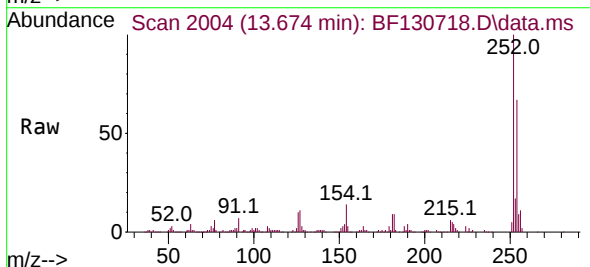
Tgt Ion:228 Resp: 488986
Ion Ratio Lower Upper
228 100
226 26.7 21.4 32.2
229 19.3 15.8 23.8

Manual Integrations
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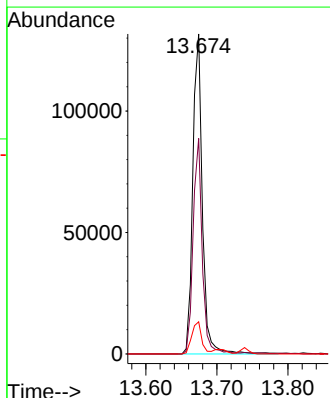
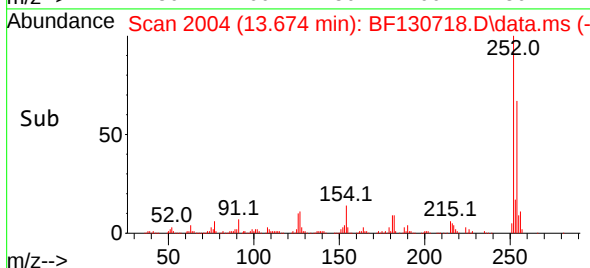
Reviewed By :Christian Giraldo 10/20/2022
Supervised By :mohammad ahmed 10/20/2022

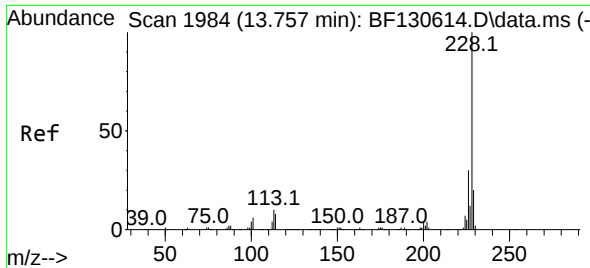


#82
3,3'-Dichlorobenzidine
Concen: 36.651 ng
RT: 13.674 min Scan# 2004
Delta R.T. -0.006 min
Lab File: BF130718.D
Acq: 19 Oct 2022 19:00



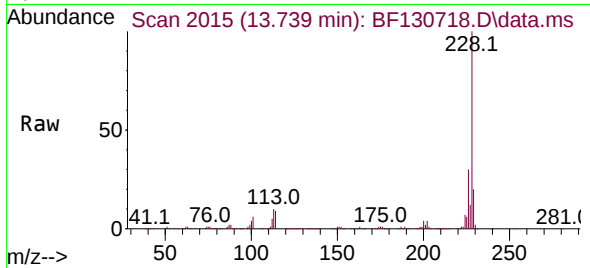
Tgt Ion:252 Resp: 123540
Ion Ratio Lower Upper
252 100
254 67.3 50.9 76.3
126 10.0 10.2 15.4#





#83
Chrysene
Concen: 41.472 ng
RT: 13.739 min Scan# 2008
Delta R.T. -0.006 min
Lab File: BF130718.D
Acq: 19 Oct 2022 19:00

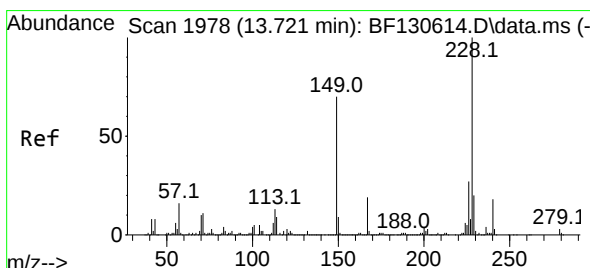
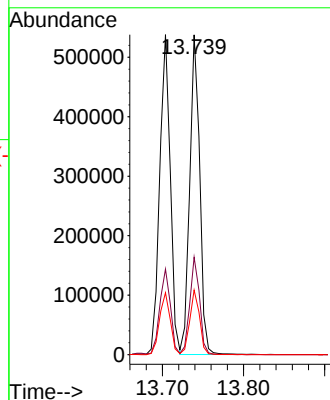
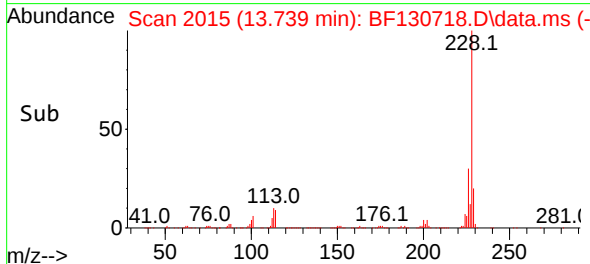
Instrument :
BNA_F
ClientSampleId :
HAS-SOIL-1013MSD



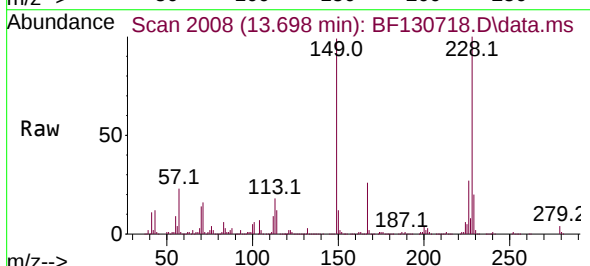
Tgt Ion:228 Resp: 458653
Ion Ratio Lower Upper
228 100
226 30.5 23.9 35.9
229 20.2 15.9 23.9

Manual Integrations
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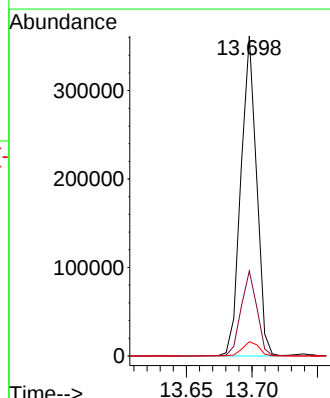
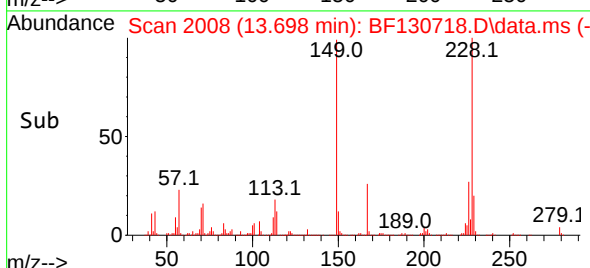
Reviewed By :Christian Giraldo 10/20/2022
Supervised By :mohammad ahmed 10/20/2022

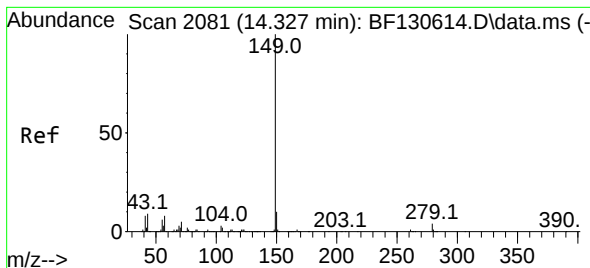


#84
Bis(2-ethylhexyl)phthalate
Concen: 43.033 ng
RT: 13.698 min Scan# 2008
Delta R.T. -0.012 min
Lab File: BF130718.D
Acq: 19 Oct 2022 19:00



Tgt Ion:149 Resp: 299592
Ion Ratio Lower Upper
149 100
167 26.5 21.9 32.9
279 4.4 3.8 5.6





#85

Di-n-octyl phthalate

Concen: 37.604 ng

RT: 14.310 min Scan# 2112

Delta R.T. -0.006 min

Lab File: BF130718.D

Acq: 19 Oct 2022 19:00

Instrument :

BNA_F

ClientSampleId :

HAS-SOIL-1013MSD

Tgt Ion:149 Resp: 400940

Ion Ratio Lower Upper

149 100

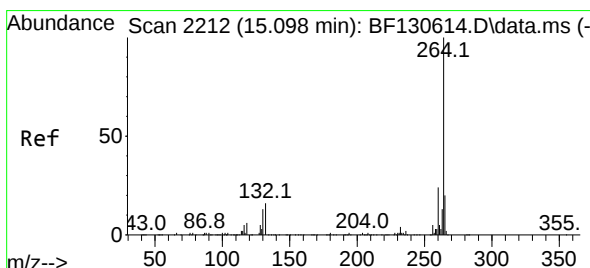
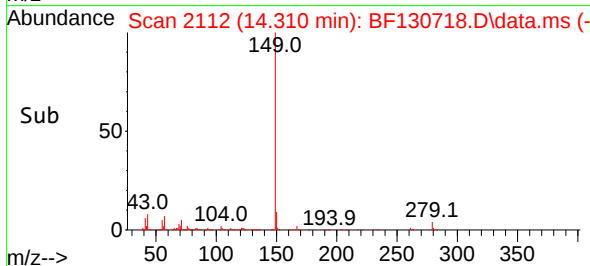
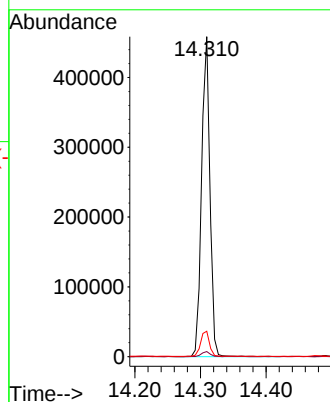
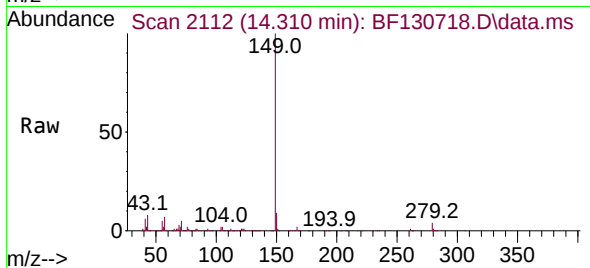
167 1.6 1.2 1.8

43 8.5 7.2 10.8

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 10/20/2022
Supervised By :mohammad ahmed 10/20/2022



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.086 min Scan# 2244

Delta R.T. -0.000 min

Lab File: BF130718.D

Acq: 19 Oct 2022 19:00

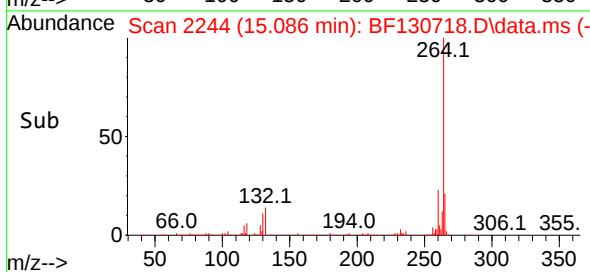
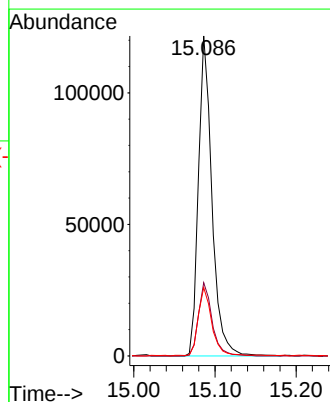
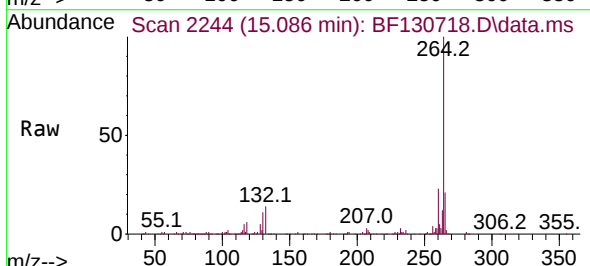
Tgt Ion:264 Resp: 140128

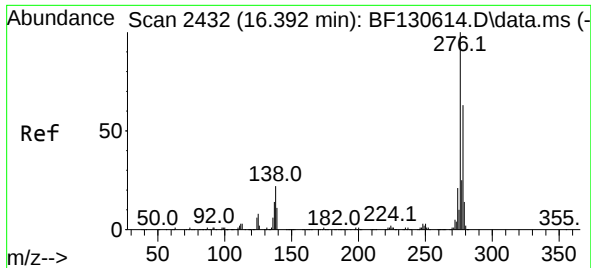
Ion Ratio Lower Upper

264 100

260 22.9 19.1 28.7

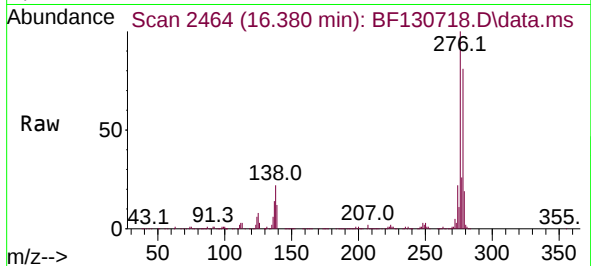
265 21.3 16.4 24.6





#87
Indeno(1,2,3-cd)pyrene
Concen: 42.813 ng
RT: 16.380 min Scan# 2432
Delta R.T. -0.000 min
Lab File: BF130718.D
Acq: 19 Oct 2022 19:00

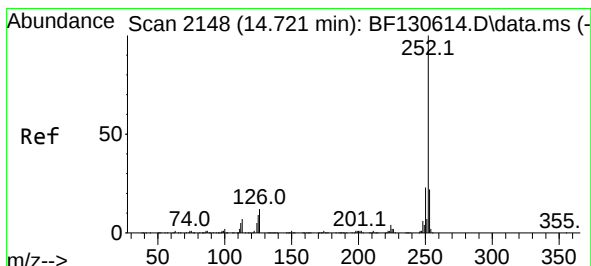
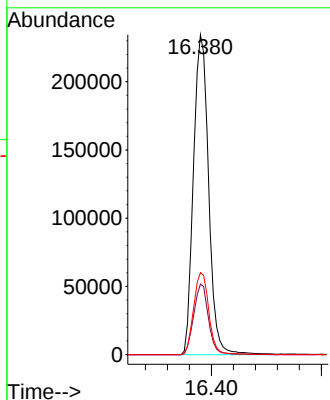
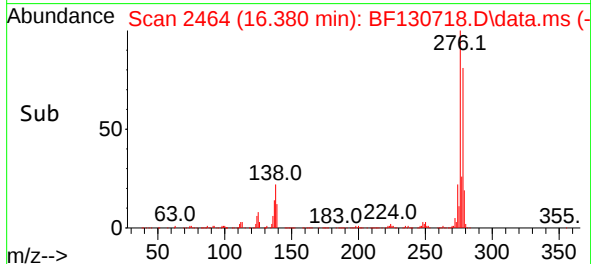
Instrument :
BNA_F
ClientSampleId :
HAS-SOIL-1013MSD



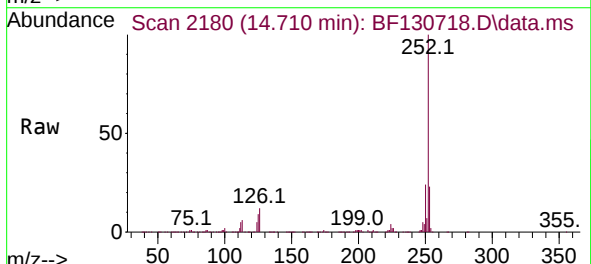
Tgt Ion:276 Resp: 449029
Ion Ratio Lower Upper
276 100
138 21.4 18.0 27.0
277 25.6 20.0 30.0

Manual Integrations
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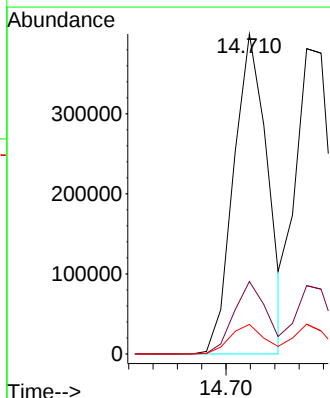
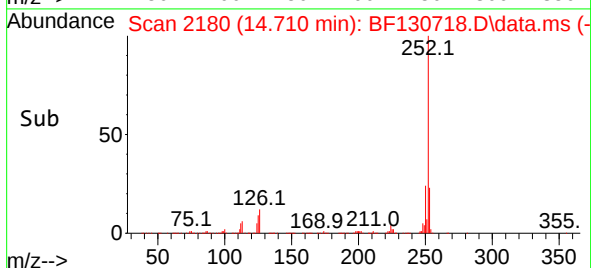
Reviewed By :Christian Giraldo 10/20/2022
Supervised By :mohammad ahmed 10/20/2022

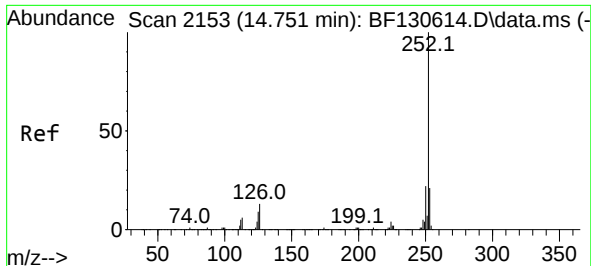


#88
Benzo(b)fluoranthene
Concen: 43.746 ng
RT: 14.710 min Scan# 2180
Delta R.T. -0.006 min
Lab File: BF130718.D
Acq: 19 Oct 2022 19:00



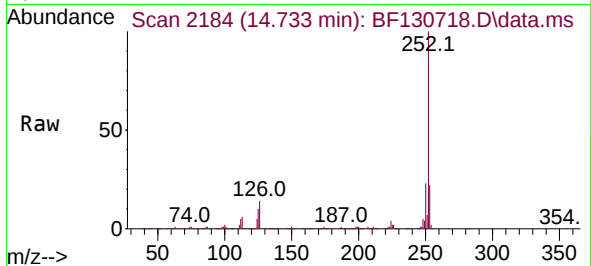
Tgt Ion:252 Resp: 388166
Ion Ratio Lower Upper
252 100
253 22.6 17.4 26.2
125 9.2 7.4 11.0





#89
Benzo(k)fluoranthene
Concen: 43.447 ng
RT: 14.733 min Scan# 2153
Delta R.T. -0.006 min
Lab File: BF130718.D
Acq: 19 Oct 2022 19:00

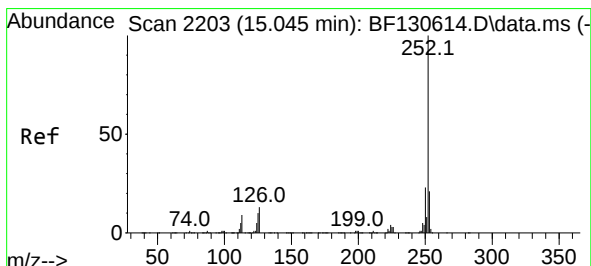
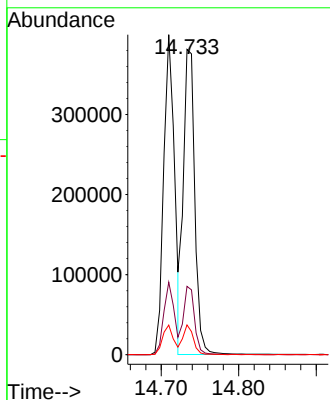
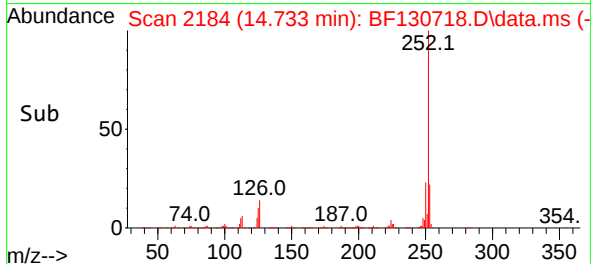
Instrument :
BNA_F
ClientSampleId :
HAS-SOIL-1013MSD



Tgt Ion:252 Resp: 392540
Ion Ratio Lower Upper
252 100
253 22.3 17.0 25.4
125 9.7 7.2 10.8

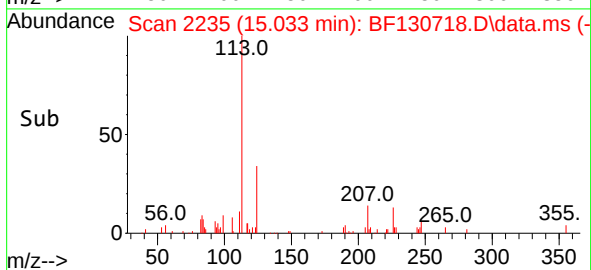
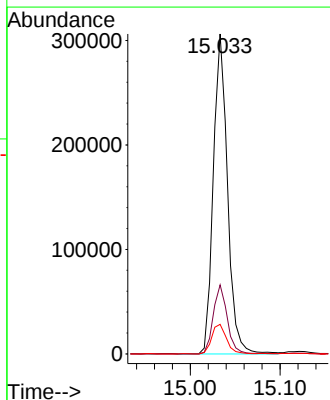
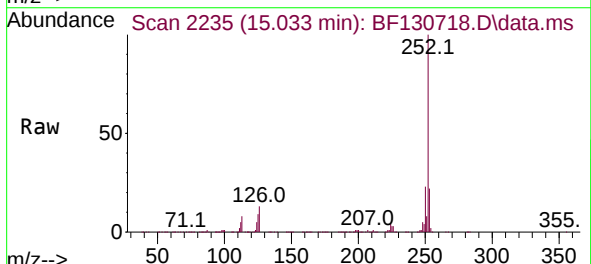
Manual Integrations
APPROVED

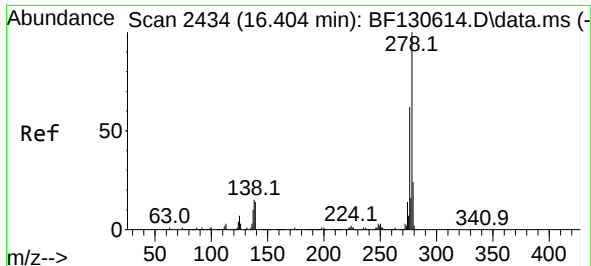
Reviewed By :Christian Giraldo 10/20/2022
Supervised By :mohammad ahmed 10/20/2022



#90
Benzo(a)pyrene
Concen: 45.881 ng
RT: 15.033 min Scan# 2235
Delta R.T. -0.006 min
Lab File: BF130718.D
Acq: 19 Oct 2022 19:00

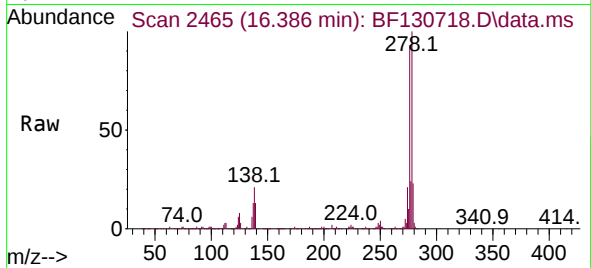
Tgt Ion:252 Resp: 338833
Ion Ratio Lower Upper
252 100
253 21.6 17.0 25.6
125 9.2 8.4 12.6





#91
Dibenzo(a,h)anthracene
Concen: 45.397 ng
RT: 16.386 min Scan# 2434
Delta R.T. -0.006 min
Lab File: BF130718.D
Acq: 19 Oct 2022 19:00

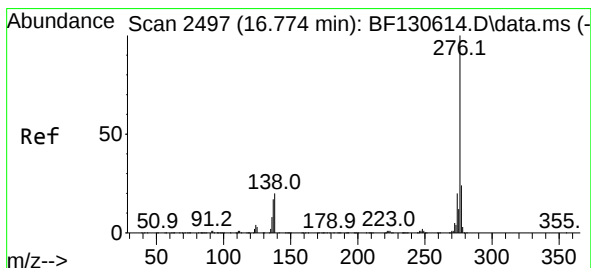
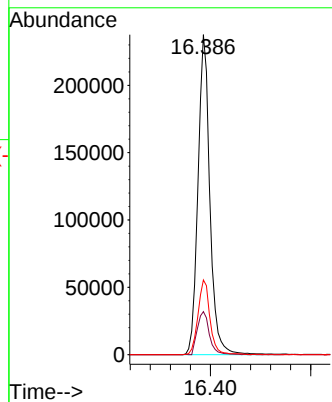
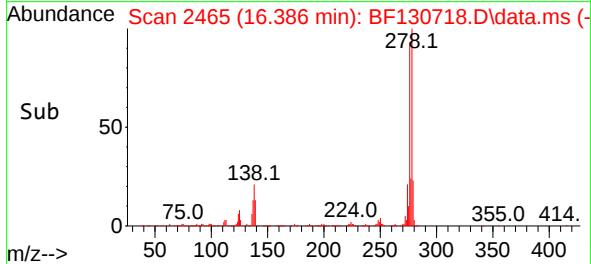
Instrument :
BNA_F
ClientSampleId :
HAS-SOIL-1013MSD



Tgt Ion:278 Resp: 390281
Ion Ratio Lower Upper
278 100
139 13.5 11.1 16.7
279 23.3 19.0 28.4

Manual Integrations
APPROVED

Reviewed By :Christian Giraldo 10/20/2022
Supervised By :mohammad ahmed 10/20/2022



#92
Benzo(g,h,i)perylene
Concen: 48.586 ng
RT: 16.768 min Scan# 2530
Delta R.T. -0.000 min
Lab File: BF130718.D
Acq: 19 Oct 2022 19:00

Tgt Ion:276 Resp: 389034
Ion Ratio Lower Upper
276 100
277 24.6 18.9 28.3
138 18.1 15.9 23.9

