

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD071823\
 Data File : VD076770.D
 Acq On : 18 Jul 2023 11:32
 Operator : KP/SY
 Sample : 03572-03
 Misc : 5.00G/5.0ml/MSVOA_D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT3-2023

Quant Time: Jul 19 08:15:39 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D071423S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 19 08:14:54 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 07/19/2023
 Supervised By : Mahesh Dadoda 07/19/2023

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

Internal Standards						
1) Pentafluorobenzene	7.875	168	173090	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.775	114	312127	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	280375	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.516	152	124462	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.228	65	83303	48.319	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	96.640%		
35) Dibromofluoromethane	7.804	113	96882	49.394	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	98.780%		
50) Toluene-d8	10.269	98	313765	44.716	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	89.440%		
62) 4-Bromofluorobenzene	12.575	95	101138	44.556	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	89.120%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.928	85	3752	2.772	ug/l	92
3) Chloromethane	2.146	50	5358	2.295	ug/l	95
4) Vinyl Chloride	2.275	62	7137	2.293	ug/l	# 82
5) Bromomethane	2.687	94	7108	2.776	ug/l	90
6) Chloroethane	2.834	64	4803	2.044	ug/l	99
7) Trichlorofluoromethane	3.175	101	6510	2.351	ug/l	90
8) Diethyl Ether	3.593	74	2402	2.519	ug/l	98
9) 1,1,2-Trichlorotrifluo...	3.958	101	4530	2.488	ug/l	94
10) Methyl Iodide	4.146	142	4924	2.399	ug/l	# 64
11) Tert butyl alcohol	5.063	59	2115m	16.440	ug/l	
12) 1,1-Dichloroethene	3.934	96	4287	2.506	ug/l	# 86
13) Acrolein	3.799	56	1492	17.018	ug/l	83
14) Allyl chloride	4.563	41	5210m	2.319	ug/l	
15) Acrylonitrile	5.263	53	5563	11.878	ug/l	# 74
16) Acetone	4.034	43	4780	11.609	ug/l	# 85
17) Carbon Disulfide	4.269	76	8830	2.210	ug/l	96
18) Methyl Acetate	4.563	43	3858	2.494	ug/l	# 81
19) Methyl tert-butyl Ether	5.316	73	9215	2.009	ug/l	98
20) Methylene Chloride	4.805	84	15397	4.521	ug/l	96
21) trans-1,2-Dichloroethene	5.310	96	4672	2.350	ug/l	92
22) Diisopropyl ether	6.222	45	10372	1.949	ug/l	# 86
23) Vinyl Acetate	6.152	43	25728m	9.773	ug/l	
24) 1,1-Dichloroethane	6.110	63	8632	2.406	ug/l	# 87
25) 2-Butanone	7.087	43	7255	13.166	ug/l	97
26) 2,2-Dichloropropane	7.063	77	10112	3.270	ug/l	88
27) cis-1,2-Dichloroethene	7.081	96	5726	2.336	ug/l	84
28) Bromochloromethane	7.428	49	2331	2.599	ug/l	# 41
29) Tetrahydrofuran	7.451	42	3811	11.705	ug/l	# 75
30) Chloroform	7.593	83	9498	2.417	ug/l	84
31) Cyclohexane	7.875	56	9389	3.700	ug/l	# 66
32) 1,1,1-Trichloroethane	7.793	97	8015	2.528	ug/l	94
36) 1,1-Dichloropropene	8.004	75	6390	2.493	ug/l	95
37) Ethyl Acetate	7.181	43	3043m	2.655	ug/l	
38) Carbon Tetrachloride	7.998	117	5324	2.169	ug/l	# 71
39) Methylcyclohexane	9.263	83	6572	2.221	ug/l	# 91
40) Benzene	8.251	78	18411	2.277	ug/l	# 88

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.416	41	1920m	2.743	ug/l	
42) 1,2-Dichloroethane	8.334	62	4889	2.327	ug/l	100
43) Isopropyl Acetate	8.363	43	4725	2.112	ug/l #	73
44) Trichloroethene	9.028	130	4940	2.242	ug/l	77
45) 1,2-Dichloropropane	9.304	63	4963	2.377	ug/l	94
46) Dibromomethane	9.393	93	3134	2.565	ug/l #	81
47) Bromodichloromethane	9.587	83	7213	2.352	ug/l #	82
48) Methyl methacrylate	9.381	41	2421	2.378	ug/l #	67
49) 1,4-Dioxane	9.398	88	471	30.085	ug/l #	33
51) 4-Methyl-2-Pentanone	10.157	43	12941	10.865	ug/l	89
52) Toluene	10.334	92	11626	2.189	ug/l	98
53) t-1,3-Dichloropropene	10.551	75	6420	2.256	ug/l	100
54) cis-1,3-Dichloropropene	10.022	75	7265	2.166	ug/l #	89
55) 1,1,2-Trichloroethane	10.734	97	4324	2.423	ug/l #	91
56) Ethyl methacrylate	10.598	69	4284	2.080	ug/l #	72
57) 1,3-Dichloropropane	10.881	76	6719	2.312	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.869	63	9259	11.615	ug/l	99
59) 2-Hexanone	10.922	43	8805	10.361	ug/l	90
60) Dibromochloromethane	11.069	129	4440	2.142	ug/l	96
61) 1,2-Dibromoethane	11.175	107	3406	2.059	ug/l	84
64) Tetrachloroethene	10.816	164	4175	2.611	ug/l	91
65) Chlorobenzene	11.604	112	13072	2.318	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.687	131	4788	2.281	ug/l	95
67) Ethyl Benzene	11.687	91	22168	2.238	ug/l	92
68) m/p-Xylenes	11.792	106	15955	4.195	ug/l	86
69) o-Xylene	12.116	106	7576	2.060	ug/l	88
70) Styrene	12.139	104	13040	2.025	ug/l	97
71) Bromoform	12.298	173	3056	2.658	ug/l #	93
73) Isopropylbenzene	12.422	105	18968	2.101	ug/l	98
74) N-amyl acetate	12.239	43	4410	2.318	ug/l	95
75) 1,1,2,2-Tetrachloroethane	12.669	83	5477	2.825	ug/l	94
76) 1,2,3-Trichloropropane	12.716	75	3490m	2.949	ug/l	
77) Bromobenzene	12.698	156	5408	2.595	ug/l	85
78) n-propylbenzene	12.763	91	25374	2.318	ug/l	97
79) 2-Chlorotoluene	12.845	91	13817	2.302	ug/l	97
80) 1,3,5-Trimethylbenzene	12.904	105	15987	2.190	ug/l	92
81) trans-1,4-Dichloro-2-b...	12.469	75	1575	2.832	ug/l #	79
82) 4-Chlorotoluene	12.951	91	13939	2.223	ug/l	97
83) tert-Butylbenzene	13.163	119	14303	2.225	ug/l	93
84) 1,2,4-Trimethylbenzene	13.210	105	15735	2.109	ug/l	98
85) sec-Butylbenzene	13.345	105	22253	2.266	ug/l	96
86) p-Isopropyltoluene	13.457	119	18411	2.270	ug/l	97
87) 1,3-Dichlorobenzene	13.457	146	10259	2.393	ug/l	93
88) 1,4-Dichlorobenzene	13.534	146	11325	2.696	ug/l	90
89) n-Butylbenzene	13.786	91	18631	2.347	ug/l	97
90) Hexachloroethane	14.051	117	3954	2.637	ug/l	80
91) 1,2-Dichlorobenzene	13.828	146	9231	2.444	ug/l	95
92) 1,2-Dibromo-3-Chloropr...	14.445	75	516m	1.867	ug/l	
93) 1,2,4-Trichlorobenzene	15.092	180	5667	2.457	ug/l	99
94) Hexachlorobutadiene	15.198	225	2980	2.687	ug/l	93
95) Naphthalene	15.333	128	12706	2.544	ug/l #	97
96) 1,2,3-Trichlorobenzene	15.522	180	5250	2.537	ug/l	90

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Manual Integrations
APPROVED

Reviewed By :John Carlone 07/19/2023
Supervised By :Mahesh Dadoda 07/19/2023

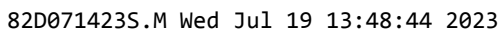
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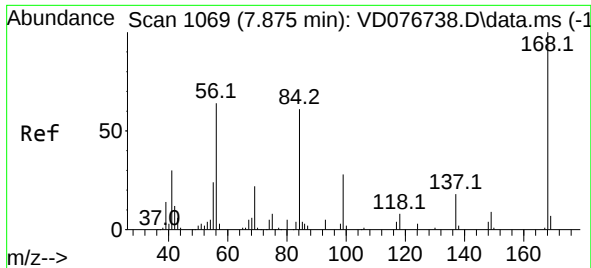
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Manual Integrations APPROVED

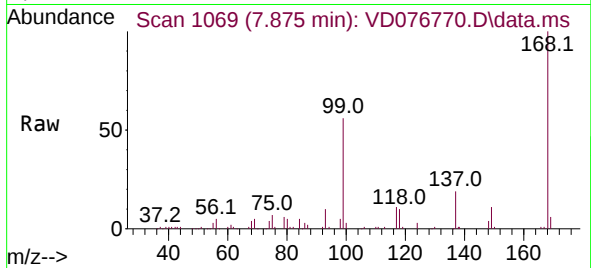
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QLast Update : Wed Jul 19 08:14:54 2023
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#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.875 min Scan# 1069
Delta R.T. -0.000 min
Lab File: VD076770.D
Acq: 18 Jul 2023 11:32

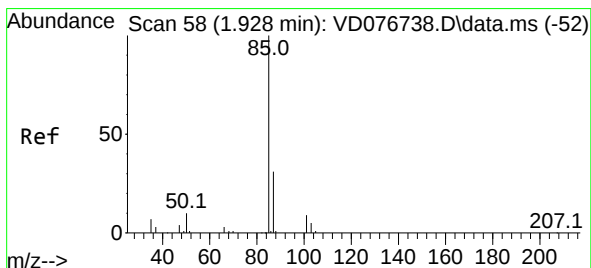
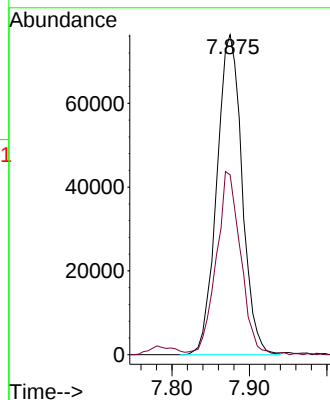
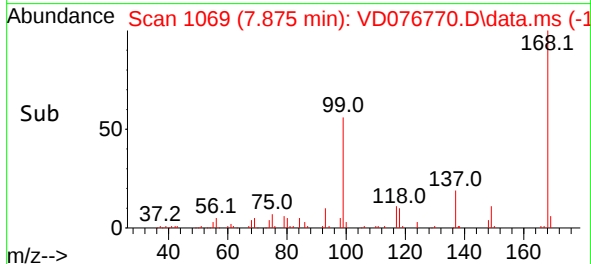
Instrument :
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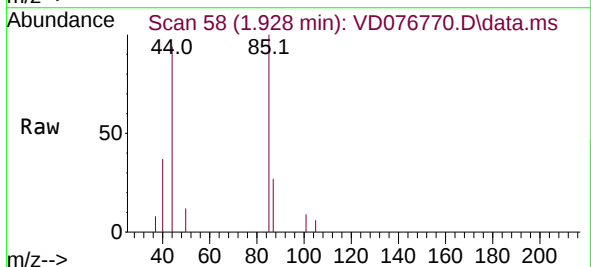
Tgt Ion:168 Resp: 173090
Ion Ratio Lower Upper
168 100
99 55.6 36.7 55.1

Manual Integrations
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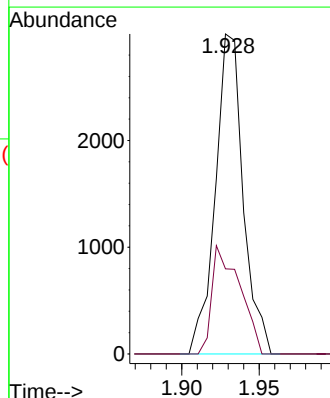
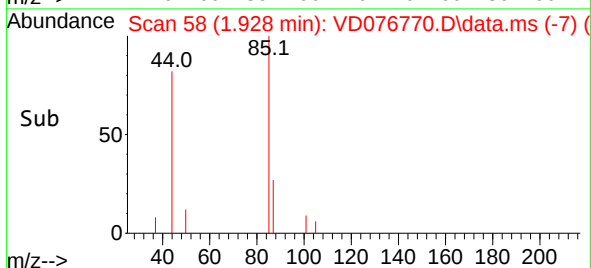
Reviewed By :John Carlone 07/19/2023
Supervised By :Mahesh Dadoda 07/19/2023

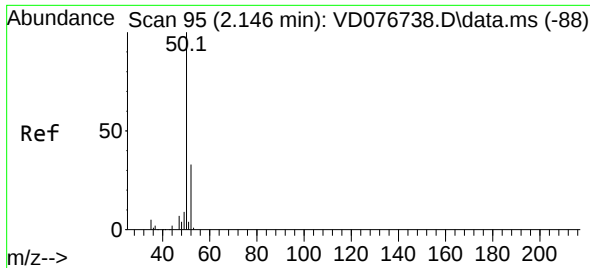


#2
Dichlorodifluoromethane
Concen: 2.772 ug/l
RT: 1.928 min Scan# 58
Delta R.T. 0.000 min
Lab File: VD076770.D
Acq: 18 Jul 2023 11:32



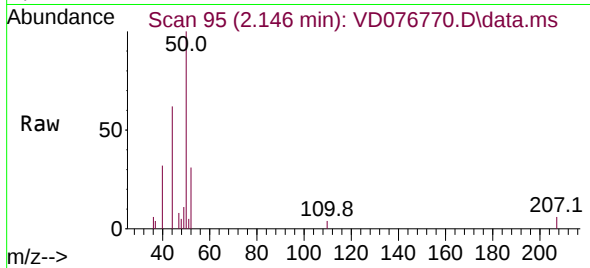
Tgt Ion: 85 Resp: 3752
Ion Ratio Lower Upper
85 100
87 26.6 15.7 47.0





#3
Chloromethane
Concen: 2.295 ug/l
RT: 2.146 min Scan# 95
Delta R.T. -0.000 min
Lab File: VD076770.D
Acq: 18 Jul 2023 11:32

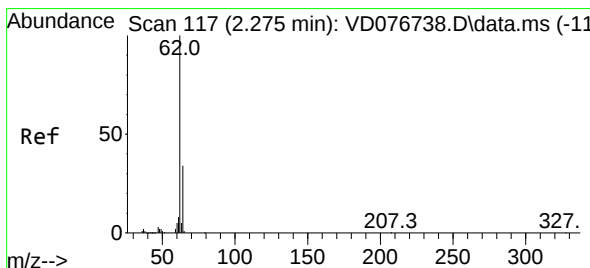
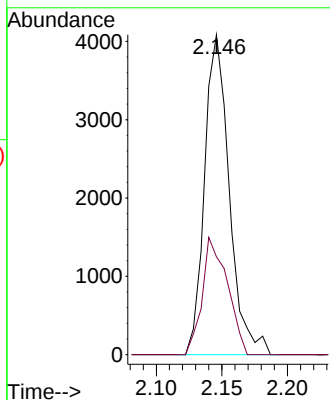
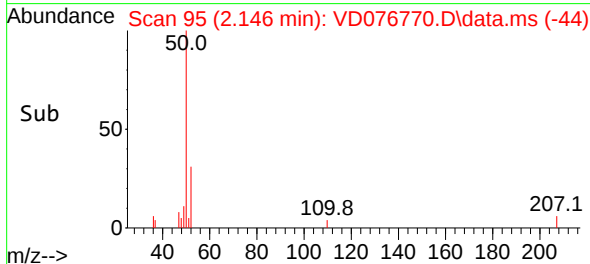
Instrument : MSVOA_D
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Tgt Ion: 50 Resp: 5358
Ion Ratio Lower Upper
50 100
52 30.6 26.6 40.0

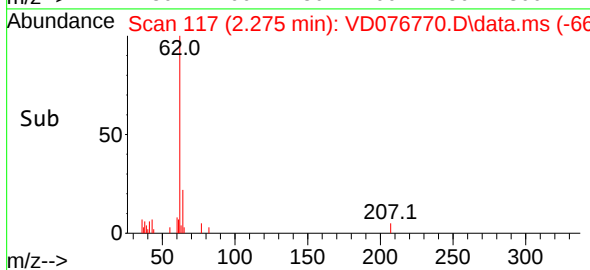
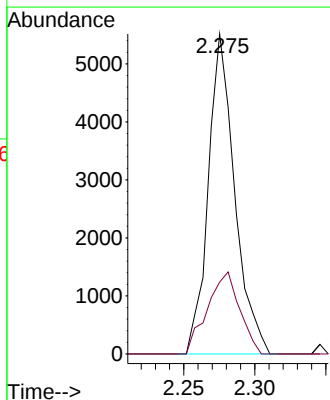
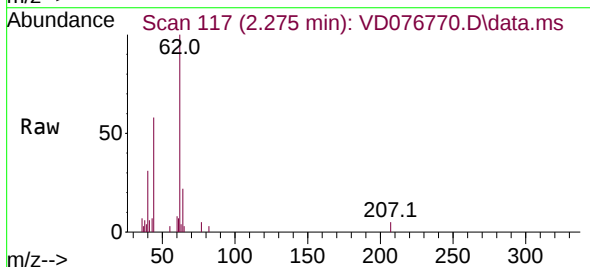
Manual Integrations
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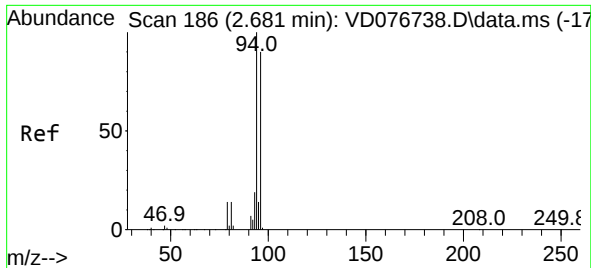
Reviewed By :John Carlone 07/19/2023
Supervised By :Mahesh Dadoda 07/19/2023



#4
Vinyl Chloride
Concen: 2.293 ug/l
RT: 2.275 min Scan# 117
Delta R.T. 0.000 min
Lab File: VD076770.D
Acq: 18 Jul 2023 11:32

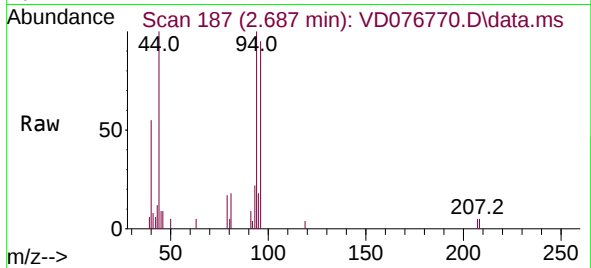
Tgt Ion: 62 Resp: 7137
Ion Ratio Lower Upper
62 100
64 22.4 26.0 39.0





#5
Bromomethane
Concen: 2.776 ug/l
RT: 2.687 min Scan# 11
Delta R.T. 0.006 min
Lab File: VD076770.D
Acq: 18 Jul 2023 11:32

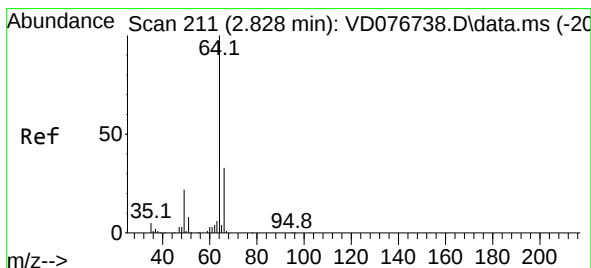
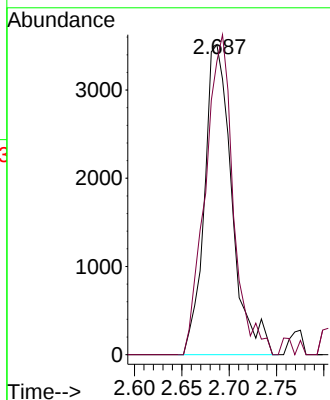
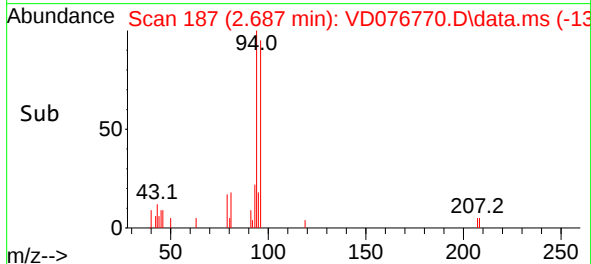
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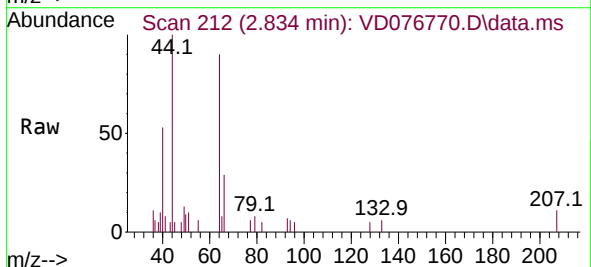
Tgt Ion: 94 Resp: 7108
Ion Ratio Lower Upper
94 100
96 104.8 75.8 113.8

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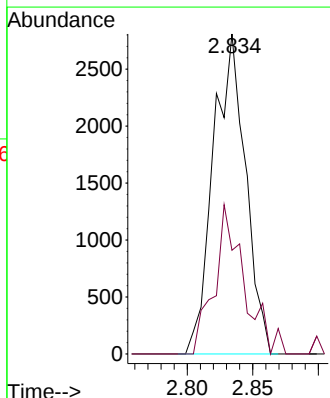
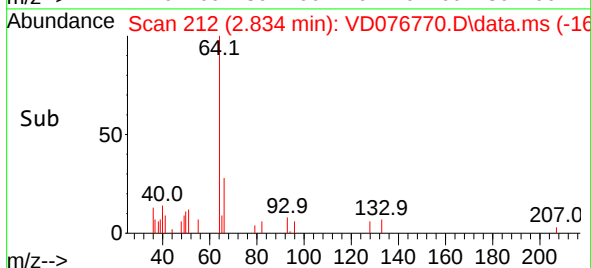
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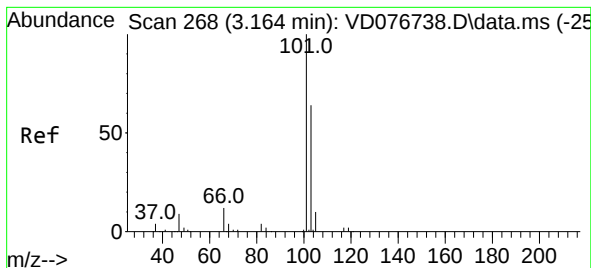


#6
Chloroethane
Concen: 2.044 ug/l
RT: 2.834 min Scan# 212
Delta R.T. 0.006 min
Lab File: VD076770.D
Acq: 18 Jul 2023 11:32



Tgt Ion: 64 Resp: 4803
Ion Ratio Lower Upper
64 100
66 32.4 25.5 38.3





#7

Trichlorofluoromethane

Concen: 2.351 ug/l

RT: 3.175 min Scan# 21

Delta R.T. 0.011 min

Lab File: VD076770.D

Acq: 18 Jul 2023 11:32

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT3-2023

Tgt Ion:101 Resp: 6510

Ion Ratio Lower Upper

101 100

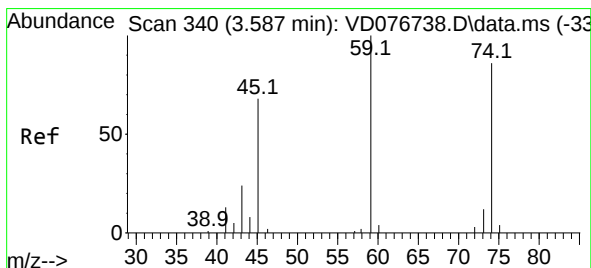
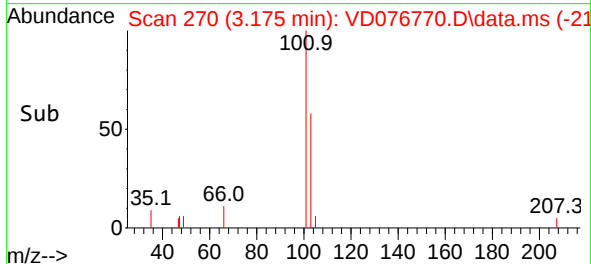
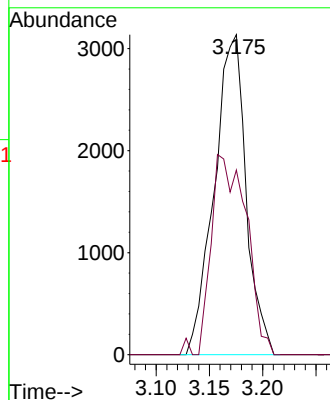
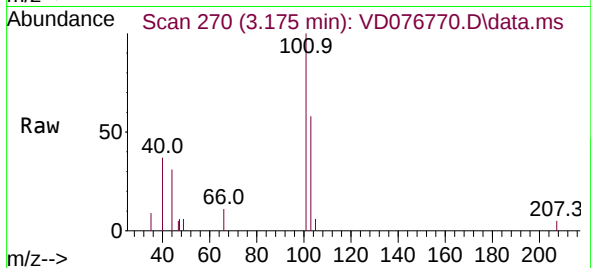
103 57.7 52.3 78.5

Manual Integrations

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#8

Diethyl Ether

Concen: 2.519 ug/l

RT: 3.593 min Scan# 341

Delta R.T. 0.006 min

Lab File: VD076770.D

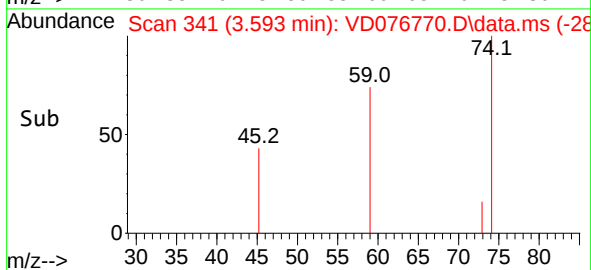
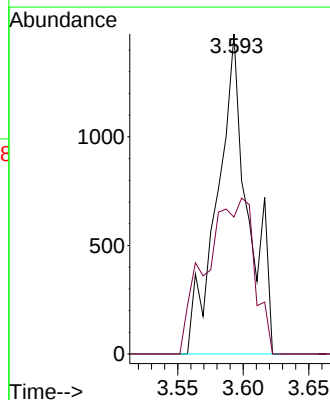
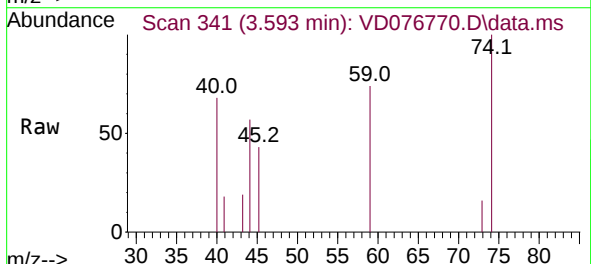
Acq: 18 Jul 2023 11:32

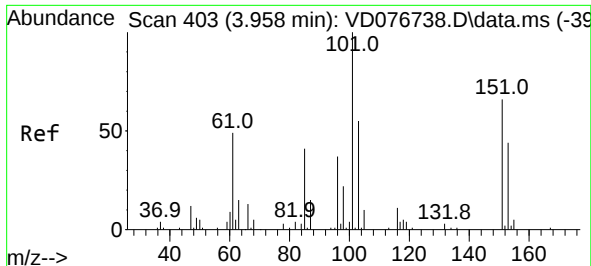
Tgt Ion: 74 Resp: 2402

Ion Ratio Lower Upper

74 100

45 76.6 37.5 112.7





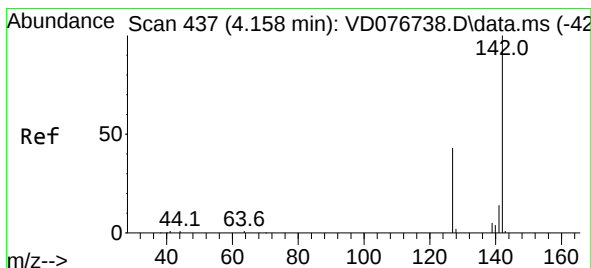
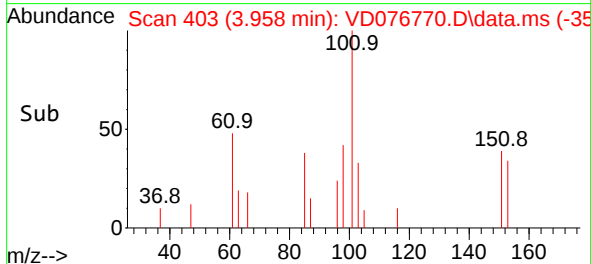
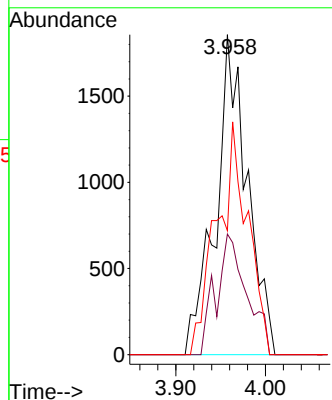
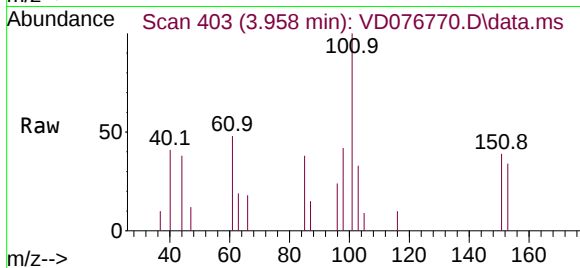
#9
1,1,2-Trichlorotrifluoroethane
Concen: 2.488 ug/l
RT: 3.958 min Scan# 403
Delta R.T. -0.000 min
Lab File: VD076770.D
Acq: 18 Jul 2023 11:32

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2023

Tgt Ion:101 Resp: 4530
Ion Ratio Lower Upper
101 100
85 36.5 33.8 50.6
151 71.1 59.8 89.6

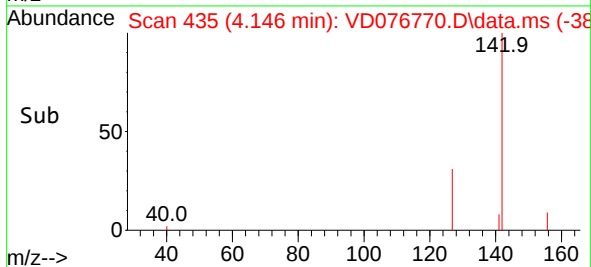
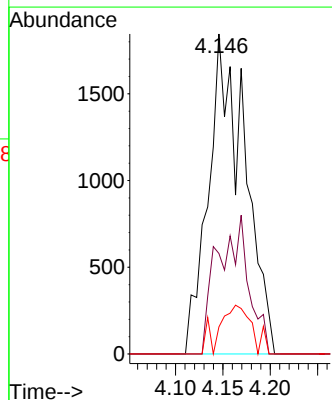
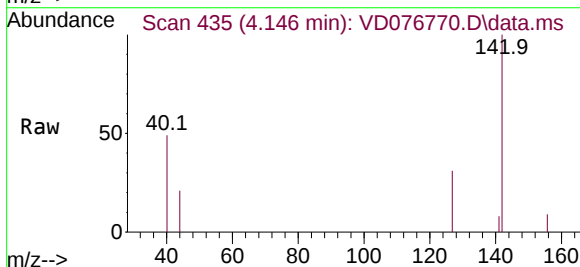
Manual Integrations
APPROVED

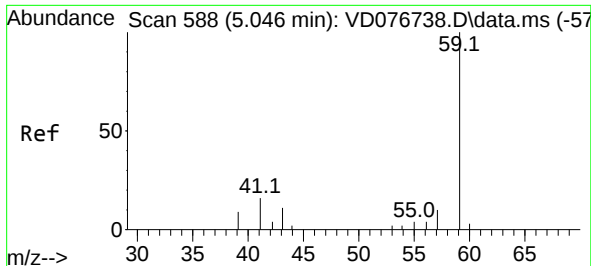
Reviewed By :John Carlone 07/19/2023
Supervised By :Mahesh Dadoda 07/19/2023



#10
Methyl Iodide
Concen: 2.399 ug/l
RT: 4.146 min Scan# 435
Delta R.T. -0.012 min
Lab File: VD076770.D
Acq: 18 Jul 2023 11:32

Tgt Ion:142 Resp: 4924
Ion Ratio Lower Upper
142 100
127 14.4 29.4 44.0#
141 1.5 11.1 16.7#





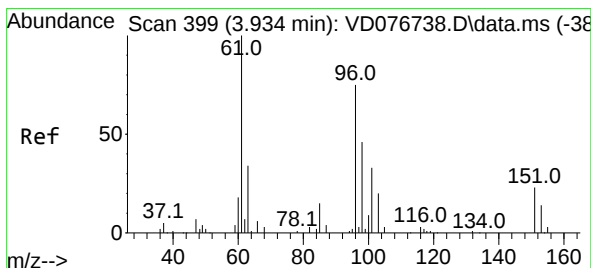
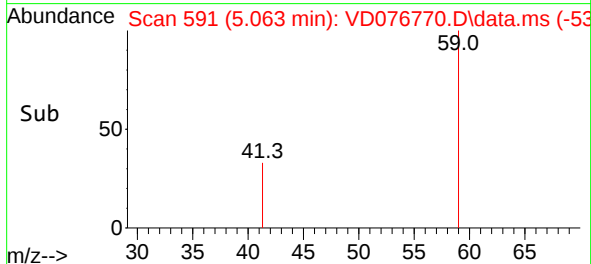
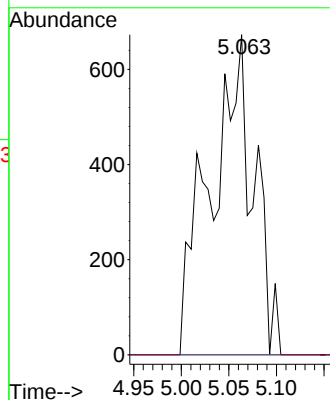
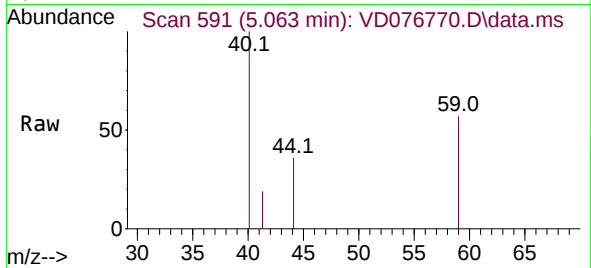
#11
Tert butyl alcohol
Concen: 16.440 ug/l m
RT: 5.063 min Scan# 591
Delta R.T. 0.017 min
Lab File: VD076770.D
Acq: 18 Jul 2023 11:32

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2023

Tgt Ion: 59 Resp: 211
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.8

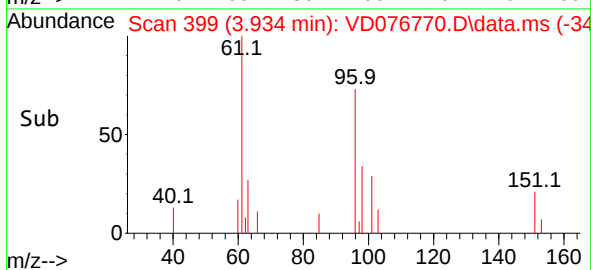
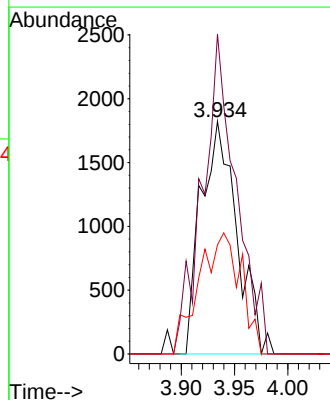
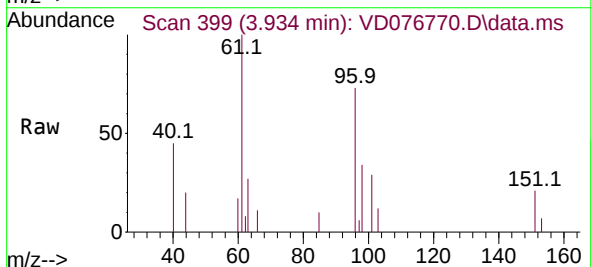
Manual Integrations
APPROVED

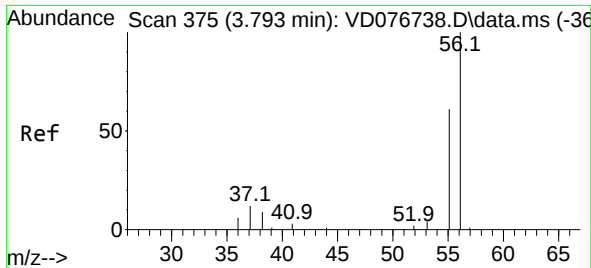
Reviewed By :John Carlone 07/19/2023
Supervised By :Mahesh Dadoda 07/19/2023



#12
1,1-Dichloroethene
Concen: 2.506 ug/l
RT: 3.934 min Scan# 399
Delta R.T. 0.000 min
Lab File: VD076770.D
Acq: 18 Jul 2023 11:32

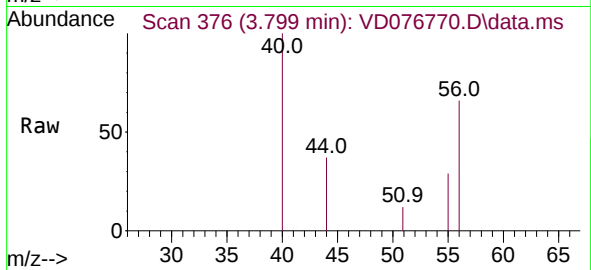
Tgt Ion: 96 Resp: 4287
Ion Ratio Lower Upper
96 100
61 137.6 100.6 150.8
98 47.0 50.2 75.2





#13
Acrolein
Concen: 17.018 ug/l
RT: 3.799 min Scan# 31
Delta R.T. 0.006 min
Lab File: VD076770.D
Acq: 18 Jul 2023 11:32

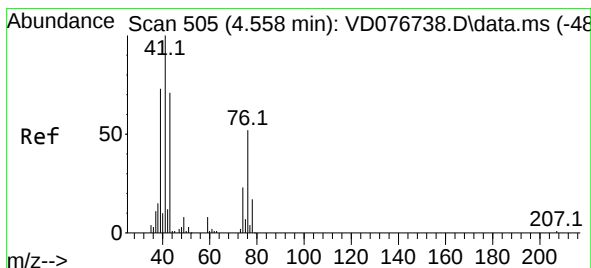
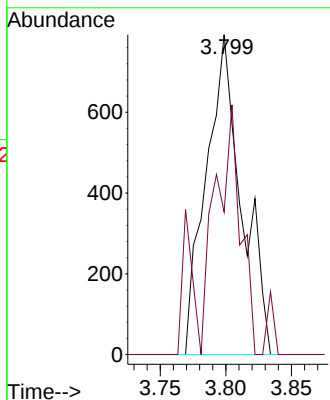
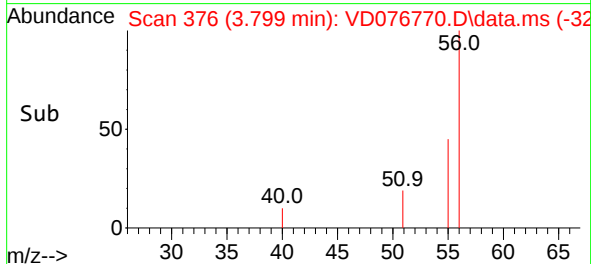
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2023



Tgt Ion: 56 Resp: 1492
Ion Ratio Lower Upper
56 100
55 55.2 55.1 82.7

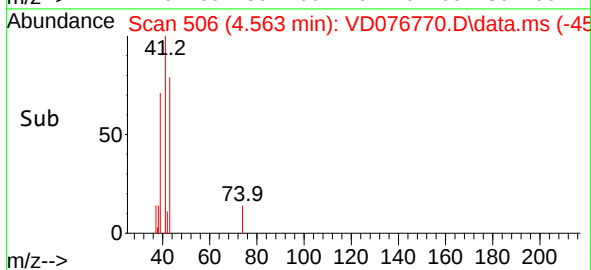
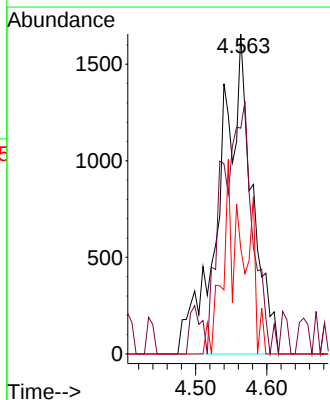
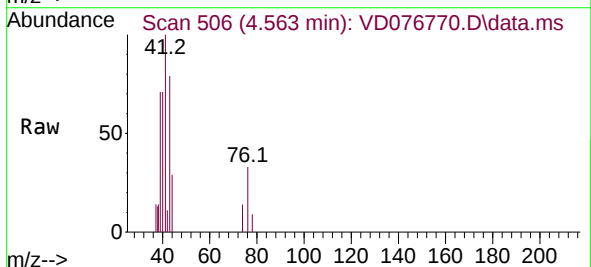
Manual Integrations
APPROVED

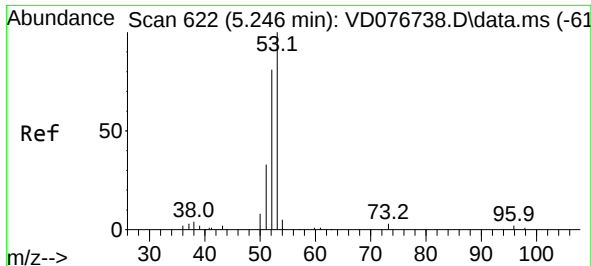
Reviewed By :John Carlone 07/19/2023
Supervised By :Mahesh Dadoda 07/19/2023



#14
Allyl chloride
Concen: 2.319 ug/l m
RT: 4.563 min Scan# 506
Delta R.T. 0.005 min
Lab File: VD076770.D
Acq: 18 Jul 2023 11:32

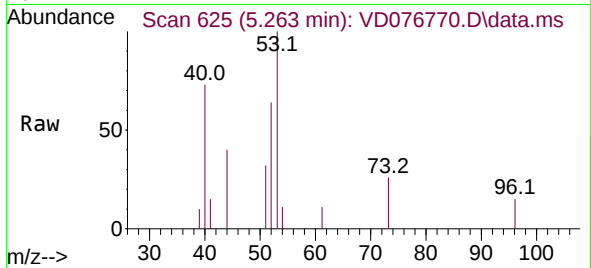
Tgt Ion: 41 Resp: 5210
Ion Ratio Lower Upper
41 100
39 73.6 53.8 80.6
76 0.0 45.8 68.8#





#15
Acrylonitrile
Concen: 11.878 ug/l
RT: 5.263 min Scan# 61
Delta R.T. 0.017 min
Lab File: VD076770.D
Acq: 18 Jul 2023 11:32

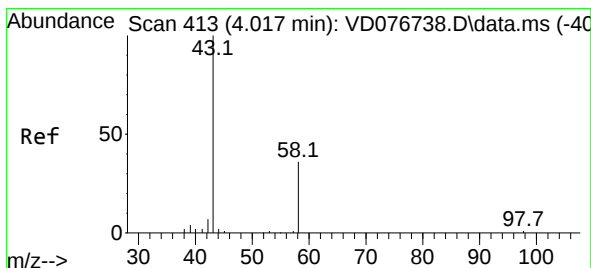
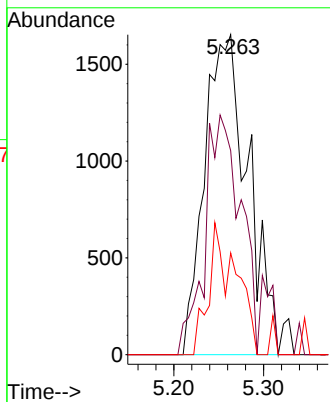
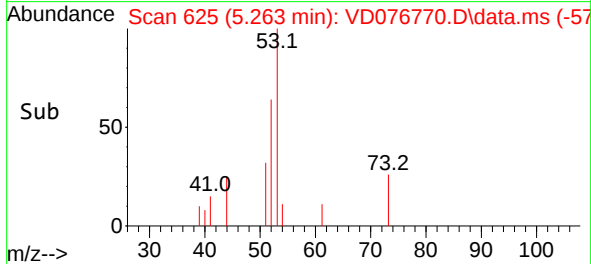
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2023



Tgt Ion: 53 Resp: 556
Ion Ratio Lower Upper
53 100
52 61.6 65.0 97.4
51 14.1 28.3 42.5

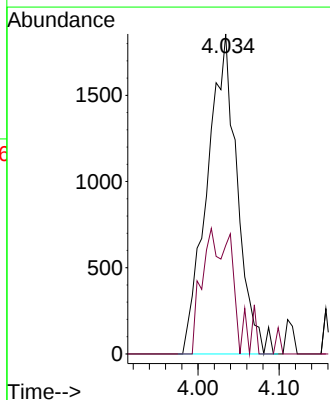
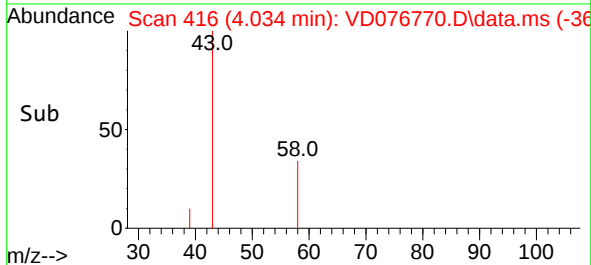
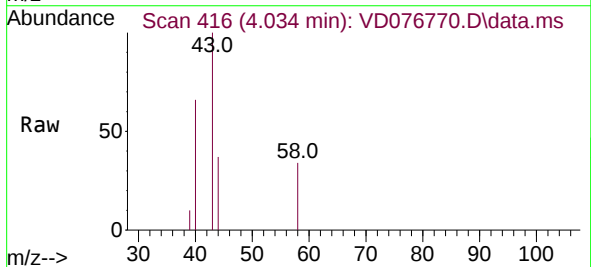
Manual Integrations
APPROVED

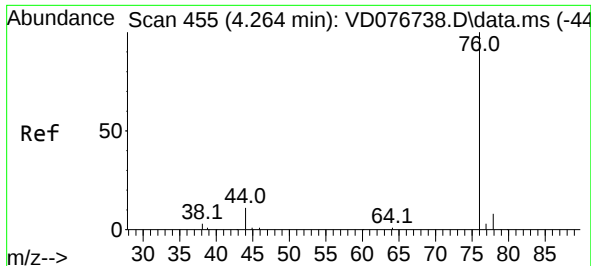
Reviewed By :John Carlone 07/19/2023
Supervised By :Mahesh Dadoda 07/19/2023



#16
Acetone
Concen: 11.609 ug/l
RT: 4.034 min Scan# 416
Delta R.T. 0.017 min
Lab File: VD076770.D
Acq: 18 Jul 2023 11:32

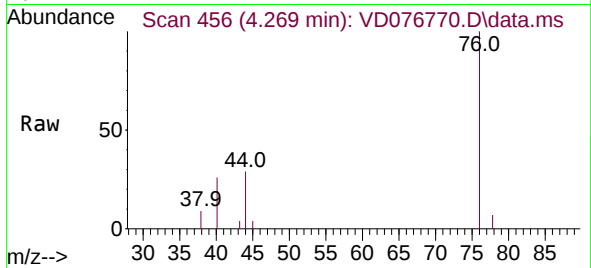
Tgt Ion: 43 Resp: 4780
Ion Ratio Lower Upper
43 100
58 33.9 34.7 52.1





#17
Carbon Disulfide
Concen: 2.210 ug/l
RT: 4.269 min Scan# 455
Delta R.T. 0.005 min
Lab File: VD076770.D
Acq: 18 Jul 2023 11:32

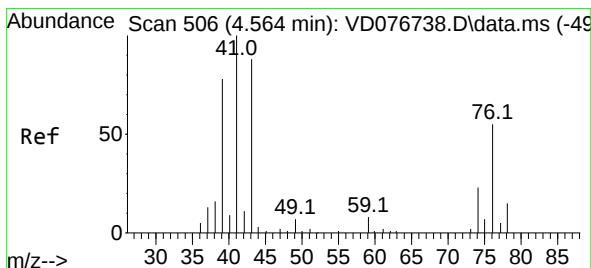
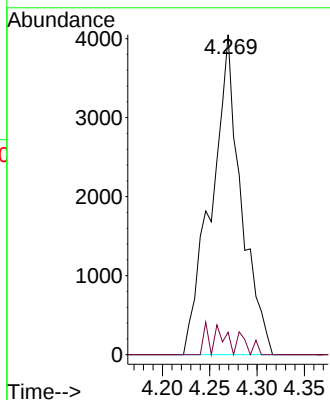
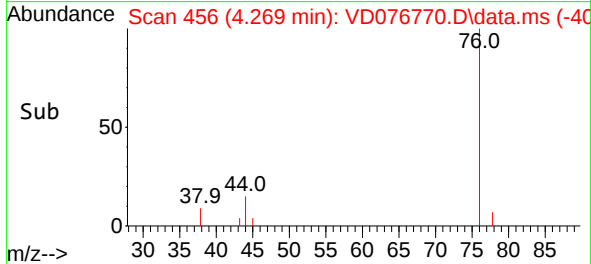
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2023



Tgt Ion: 76 Resp: 8830
Ion Ratio Lower Upper
76 100
78 7.0 6.8 10.2

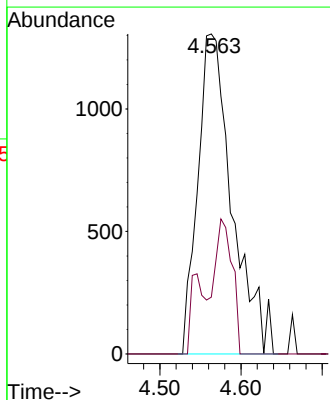
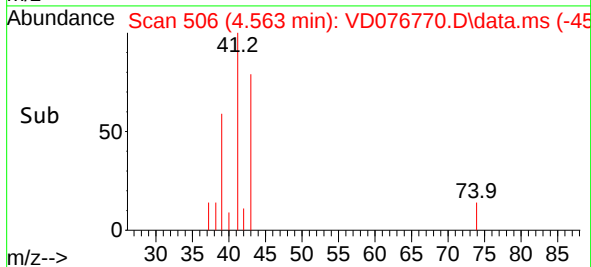
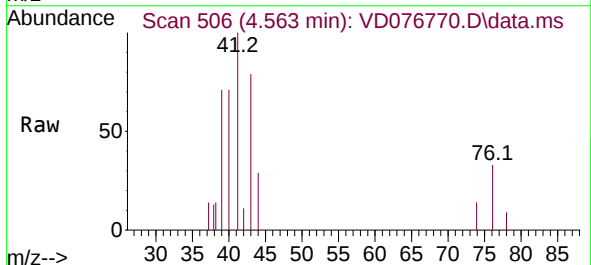
Manual Integrations
APPROVED

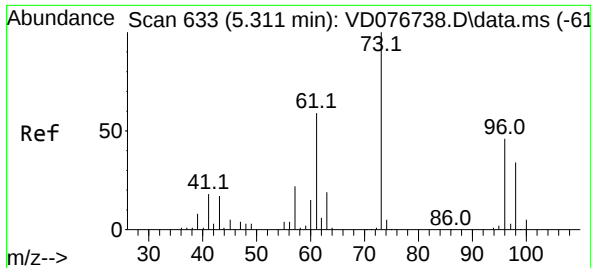
Reviewed By :John Carlone 07/19/2023
Supervised By :Mahesh Dadoda 07/19/2023



#18
Methyl Acetate
Concen: 2.494 ug/l
RT: 4.563 min Scan# 506
Delta R.T. -0.001 min
Lab File: VD076770.D
Acq: 18 Jul 2023 11:32

Tgt Ion: 43 Resp: 3858
Ion Ratio Lower Upper
43 100
74 22.0 26.4 39.6#





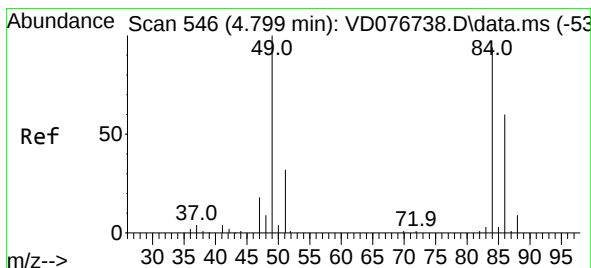
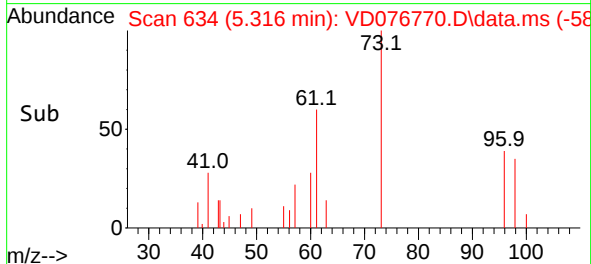
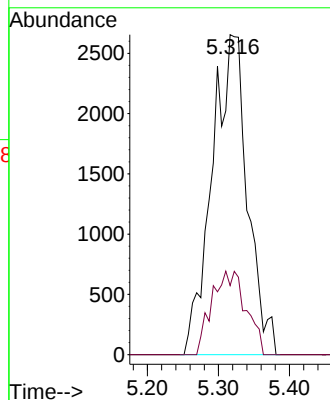
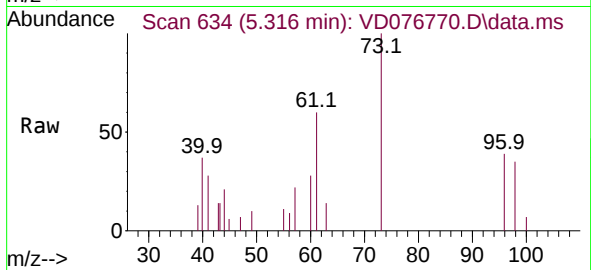
#19
Methyl tert-butyl Ether
Concen: 2.009 ug/l
RT: 5.316 min Scan# 611
Delta R.T. 0.005 min
Lab File: VD076770.D
Acq: 18 Jul 2023 11:32

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2023

Tgt Ion: 73 Resp: 921
Ion Ratio Lower Upper
73 100
57 21.6 16.6 25.0

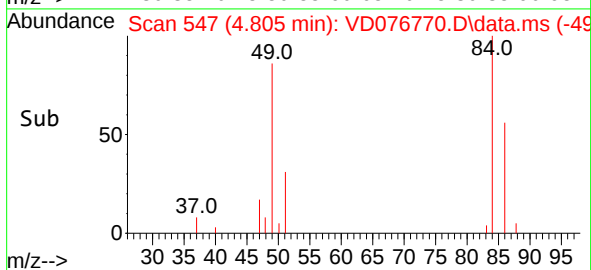
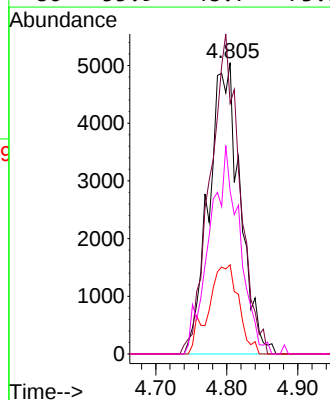
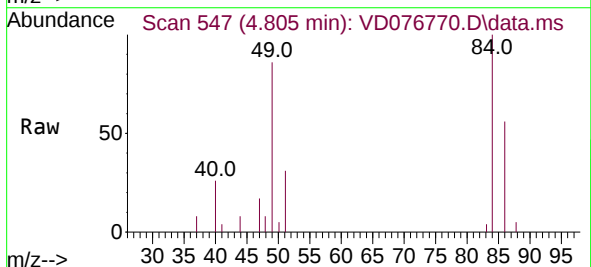
Manual Integrations
APPROVED

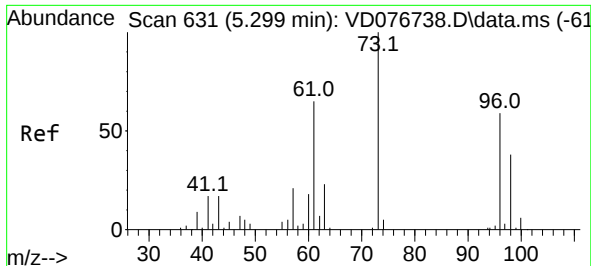
Reviewed By :John Carlone 07/19/2023
Supervised By :Mahesh Dadoda 07/19/2023



#20
Methylene Chloride
Concen: 4.521 ug/l
RT: 4.805 min Scan# 547
Delta R.T. 0.006 min
Lab File: VD076770.D
Acq: 18 Jul 2023 11:32

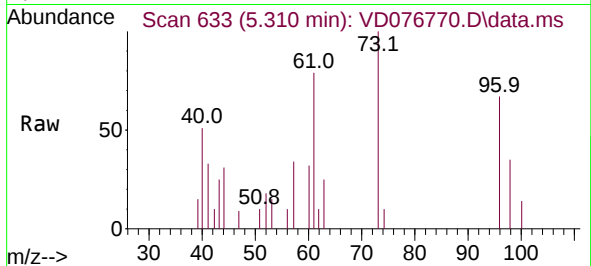
Tgt Ion: 84 Resp: 15397
Ion Ratio Lower Upper
84 100
49 86.0 71.4 107.2
51 30.6 24.5 36.7
86 55.9 48.7 73.1





#21
trans-1,2-Dichloroethene
Concen: 2.350 ug/l
RT: 5.310 min Scan# 611
Delta R.T. 0.011 min
Lab File: VD076770.D
Acq: 18 Jul 2023 11:32

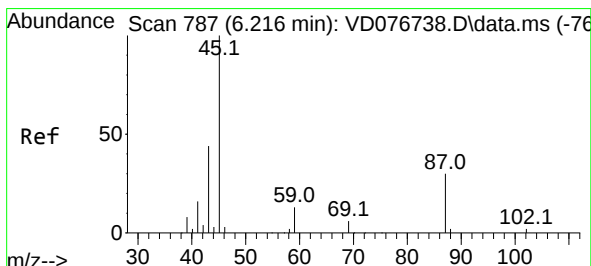
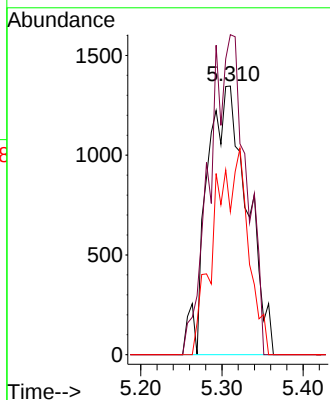
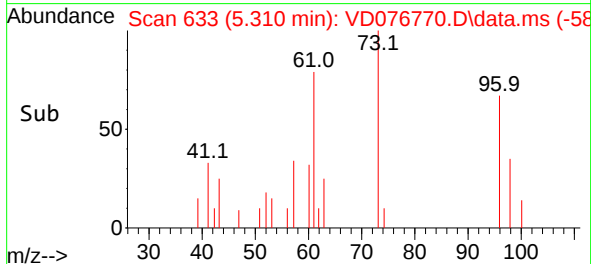
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2023



Tgt Ion: 96 Resp: 4672
Ion Ratio Lower Upper
96 100
61 119.1 89.3 133.9
98 53.2 48.6 73.0

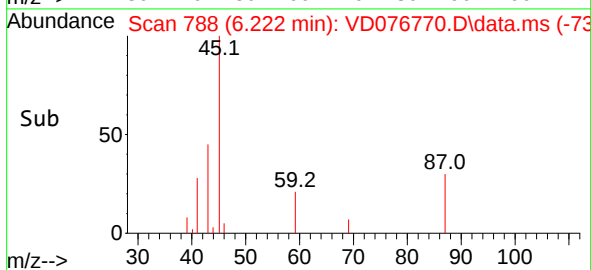
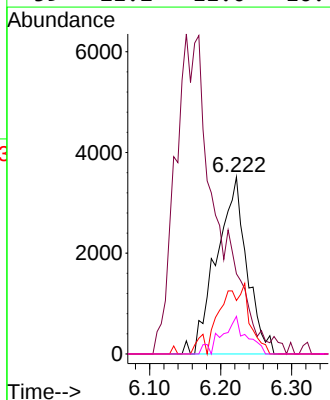
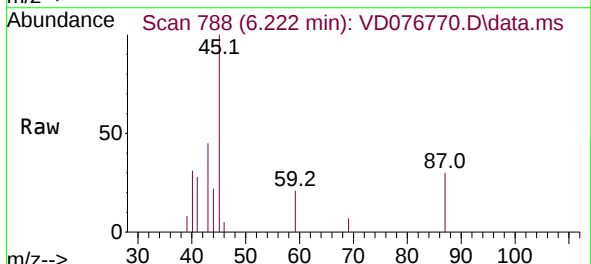
Manual Integrations
APPROVED

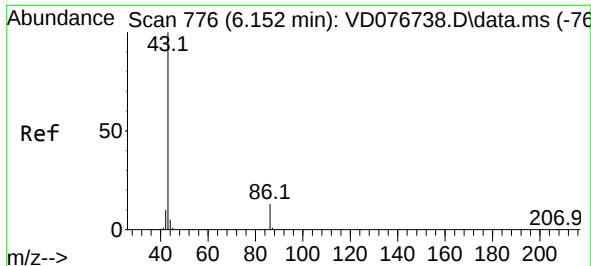
Reviewed By :John Carlone 07/19/2023
Supervised By :Mahesh Dadoda 07/19/2023



#22
Diisopropyl ether
Concen: 1.949 ug/l
RT: 6.222 min Scan# 788
Delta R.T. 0.006 min
Lab File: VD076770.D
Acq: 18 Jul 2023 11:32

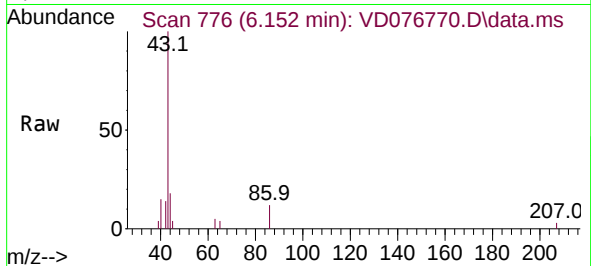
Tgt Ion: 45 Resp: 10372
Ion Ratio Lower Upper
45 100
43 38.8 40.0 60.0#
87 30.2 28.2 42.4
59 21.2 11.0 16.4#





#23
 Vinyl Acetate
 Concen: 9.773 ug/l m
 RT: 6.152 min Scan# 776
 Delta R.T. -0.000 min
 Lab File: VD076770.D
 Acq: 18 Jul 2023 11:32

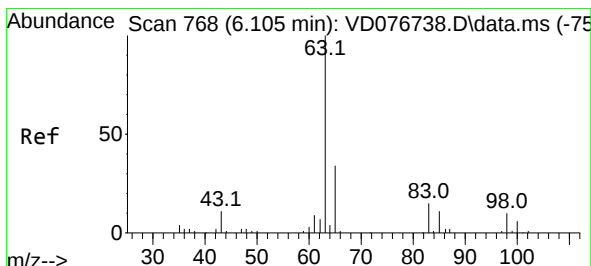
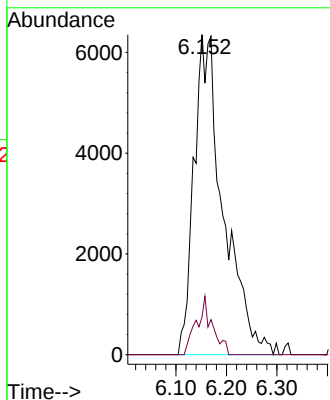
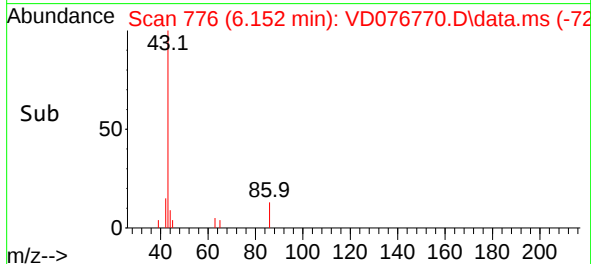
Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT3-2023



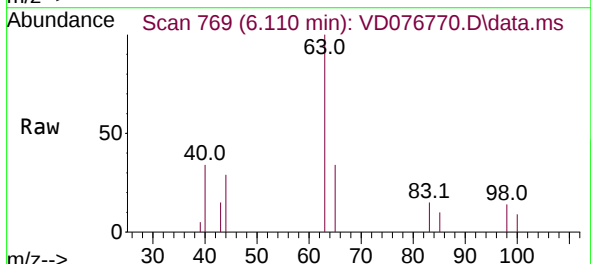
Tgt Ion: 43 Resp: 25728
 Ion Ratio Lower Upper
 43 100
 86 11.8 12.5 18.75

Manual Integrations
 APPROVED

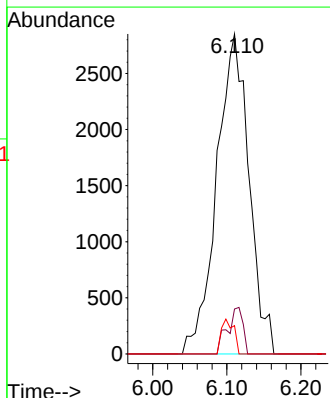
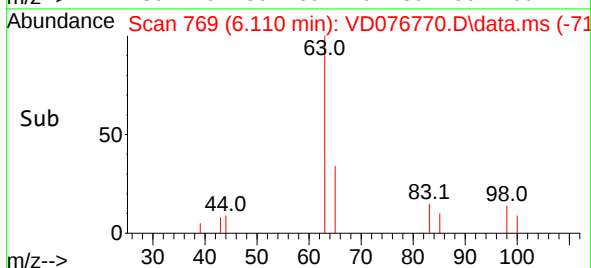
Reviewed By :John Carlone 07/19/2023
 Supervised By :Mahesh Dadoda 07/19/2023

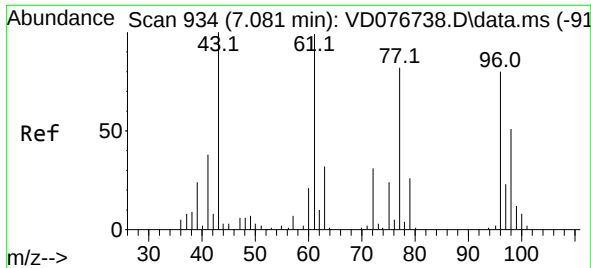


#24
 1,1-Dichloroethane
 Concen: 2.406 ug/l
 RT: 6.110 min Scan# 769
 Delta R.T. 0.005 min
 Lab File: VD076770.D
 Acq: 18 Jul 2023 11:32



Tgt Ion: 63 Resp: 8632
 Ion Ratio Lower Upper
 63 100
 98 14.1 4.5 13.7#
 100 8.8 2.5 7.5#





#25

2-Butanone

Concen: 13.166 ug/l

RT: 7.087 min Scan# 91

Delta R.T. 0.006 min

Lab File: VD076770.D

Acq: 18 Jul 2023 11:32

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT3-2023

Tgt Ion: 43 Resp: 725

Ion Ratio Lower Upper

43 100

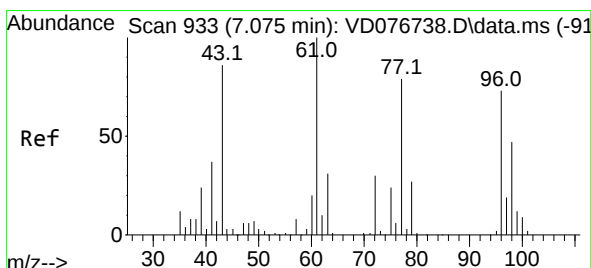
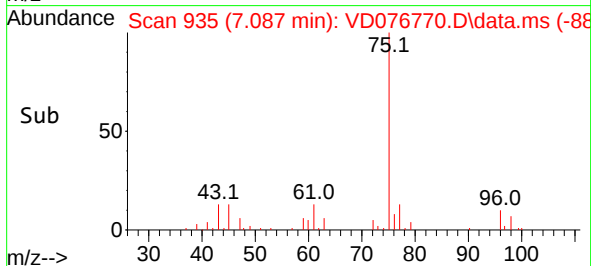
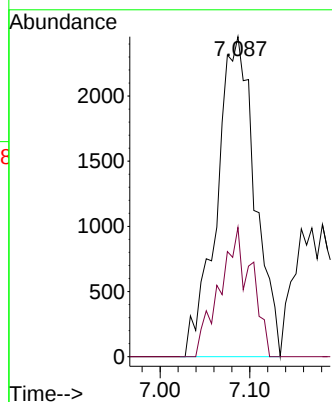
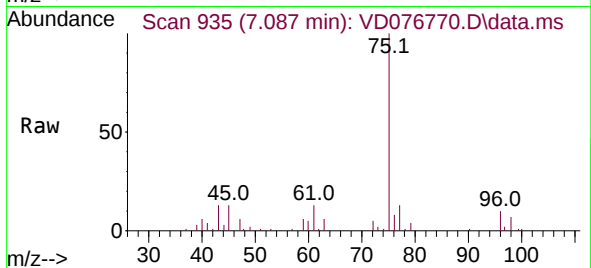
72 40.4 30.7 46.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/19/2023

Supervised By :Mahesh Dadoda 07/19/2023



#26

2,2-Dichloropropane

Concen: 3.270 ug/l

RT: 7.063 min Scan# 931

Delta R.T. -0.012 min

Lab File: VD076770.D

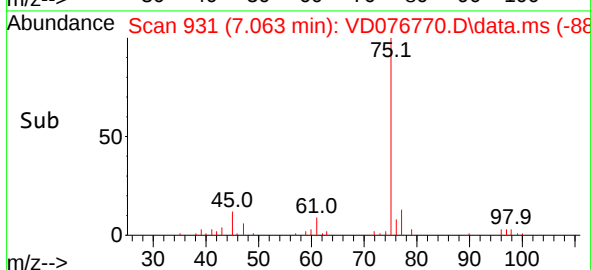
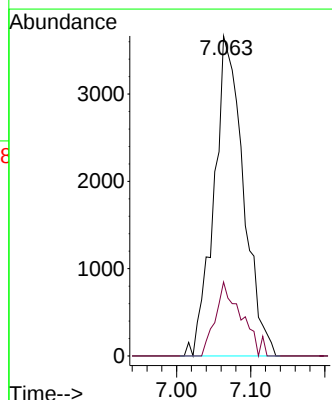
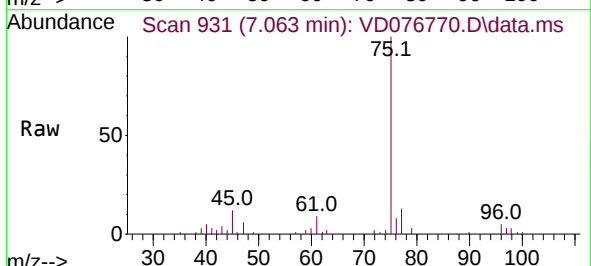
Acq: 18 Jul 2023 11:32

Tgt Ion: 77 Resp: 10112

Ion Ratio Lower Upper

77 100

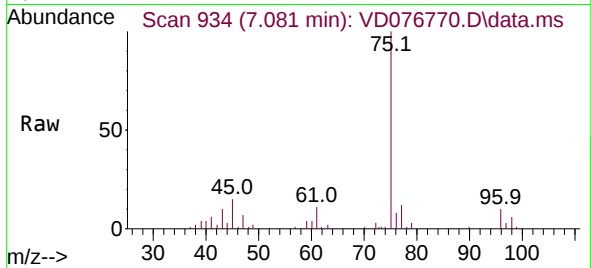
97 20.4 13.2 39.6





#27
 cis-1,2-Dichloroethene
 Concen: 2.336 ug/l
 RT: 7.081 min Scan# 91
 Delta R.T. 0.006 min
 Lab File: VD076770.D
 Acq: 18 Jul 2023 11:32

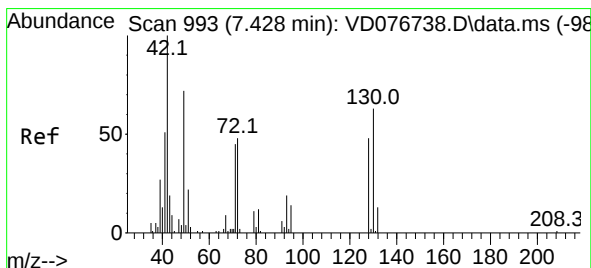
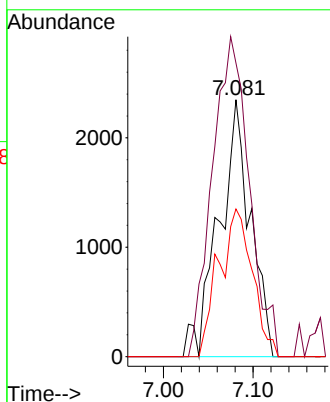
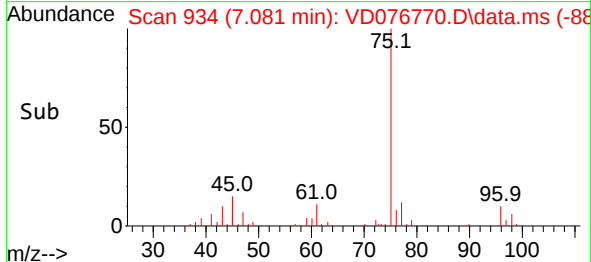
Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT3-2023



Tgt Ion: 96 Resp: 5720
 Ion Ratio Lower Upper
 96 100
 61 145.3 0.0 239.2
 98 61.3 0.0 128.6

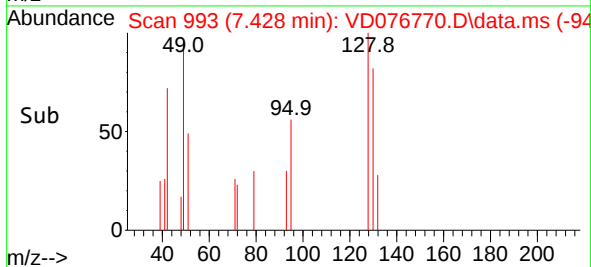
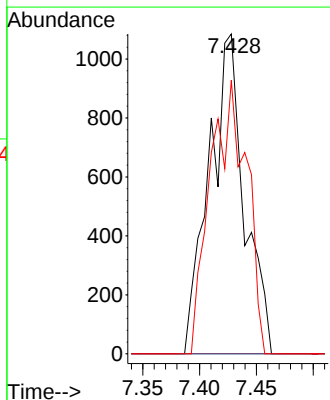
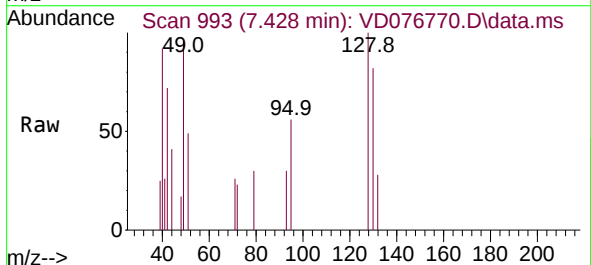
Manual Integrations
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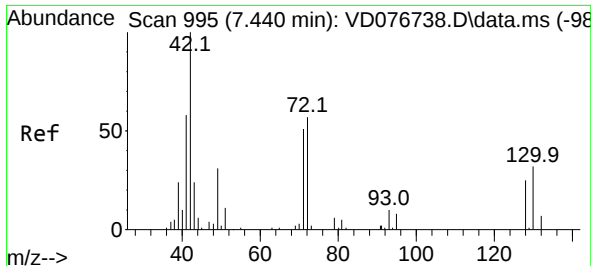
Reviewed By :John Carlone 07/19/2023
 Supervised By :Mahesh Dadoda 07/19/2023



#28
 Bromochloromethane
 Concen: 2.599 ug/l
 RT: 7.428 min Scan# 993
 Delta R.T. -0.000 min
 Lab File: VD076770.D
 Acq: 18 Jul 2023 11:32

Tgt Ion: 49 Resp: 2331
 Ion Ratio Lower Upper
 49 100
 129 0.0 0.0 6.0
 130 42.4 83.2 124.8#





#29

Tetrahydrofuran

Concen: 11.705 ug/l

RT: 7.451 min Scan# 995

Delta R.T. 0.011 min

Lab File: VD076770.D

Acq: 18 Jul 2023 11:32

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT3-2023

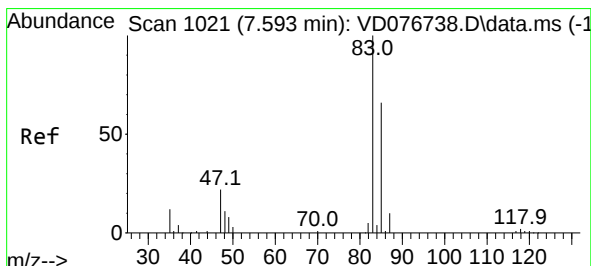
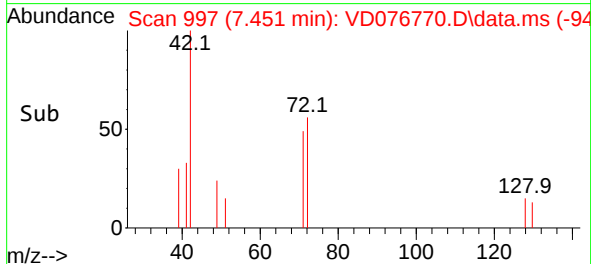
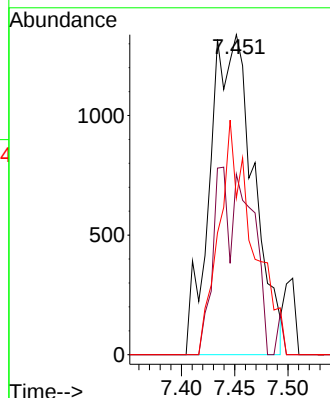
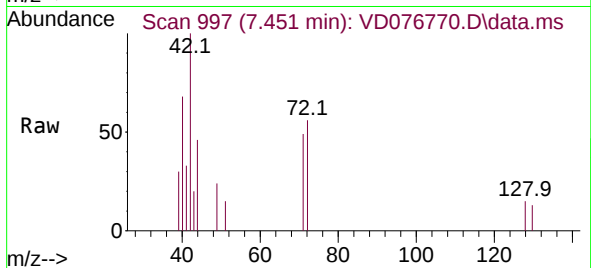
Tgt Ion:	42	Resp:	381
Ion Ratio	Lower	Upper	
42	100		
72	22.1	46.5	69.7
71	56.5	44.5	66.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/19/2023

Supervised By :Mahesh Dadoda 07/19/2023



#30

Chloroform

Concen: 2.417 ug/l

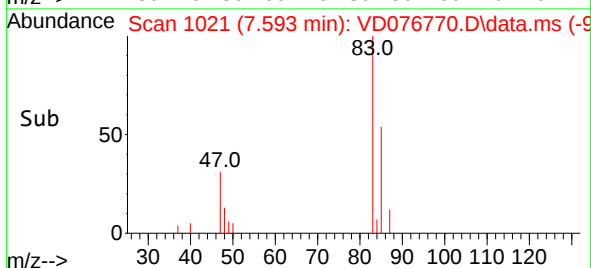
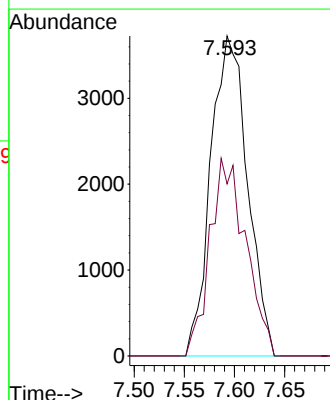
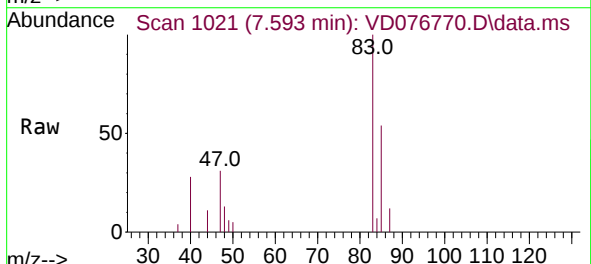
RT: 7.593 min Scan# 1021

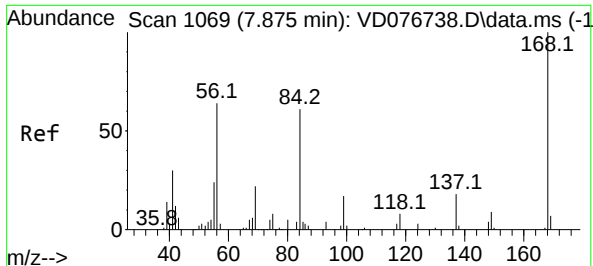
Delta R.T. -0.000 min

Lab File: VD076770.D

Acq: 18 Jul 2023 11:32

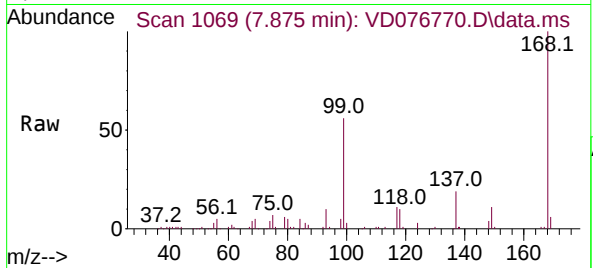
Tgt Ion:	83	Resp:	9498
Ion Ratio	Lower	Upper	
83	100		
85	53.8	53.4	80.2





#31
Cyclohexane
Concen: 3.700 ug/l
RT: 7.875 min Scan# 1069
Delta R.T. -0.000 min
Lab File: VD076770.D
Acq: 18 Jul 2023 11:32

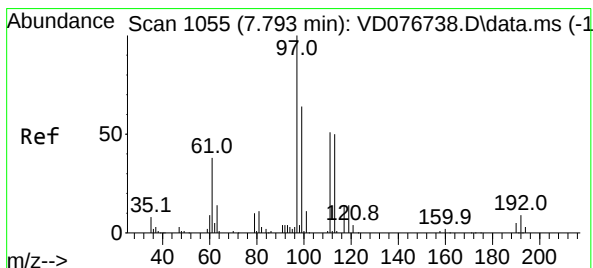
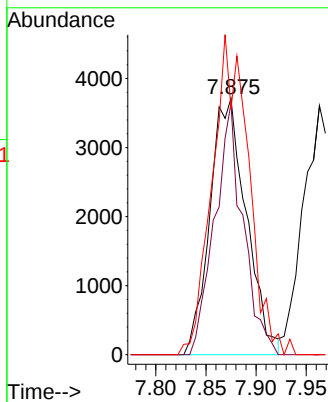
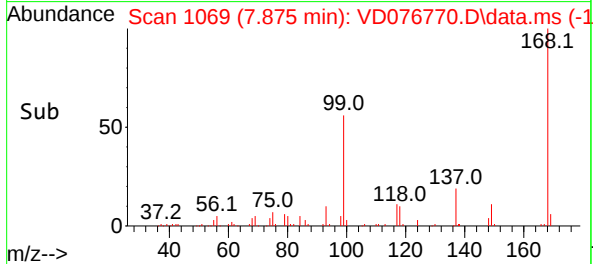
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2023



Tgt Ion: 56 Resp: 9389
Ion Ratio Lower Upper
56 100
69 98.1 28.6 43.0
84 96.0 84.8 127.2

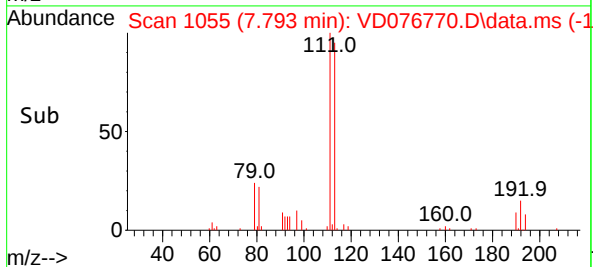
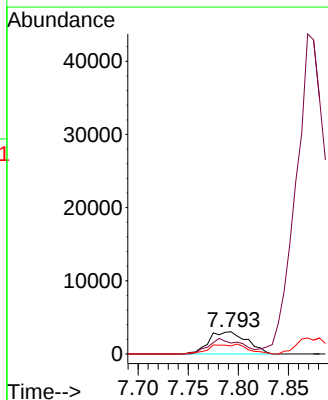
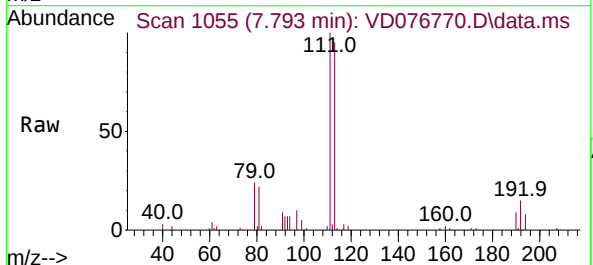
Manual Integrations
APPROVED

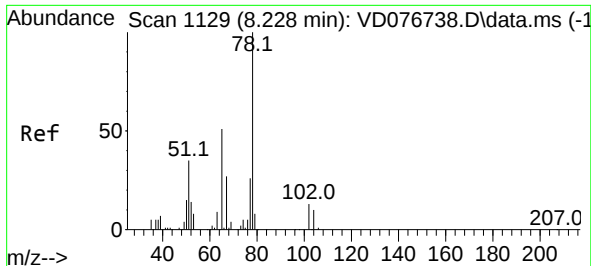
Reviewed By :John Carlone 07/19/2023
Supervised By :Mahesh Dadoda 07/19/2023



#32
1,1,1-Trichloroethane
Concen: 2.528 ug/l
RT: 7.793 min Scan# 1055
Delta R.T. -0.000 min
Lab File: VD076770.D
Acq: 18 Jul 2023 11:32

Tgt Ion: 97 Resp: 8015
Ion Ratio Lower Upper
97 100
99 58.1 52.0 78.0
61 42.6 33.8 50.8





#33

1,2-Dichloroethane-d4

Concen: 48.319 ug/l

RT: 8.228 min Scan# 1129

Delta R.T. -0.000 min

Lab File: VD076770.D

Acq: 18 Jul 2023 11:32

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT3-2023

Tgt Ion: 65 Resp: 8330

Ion Ratio Lower Upper

65 100

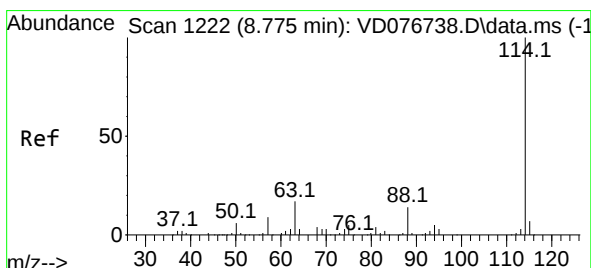
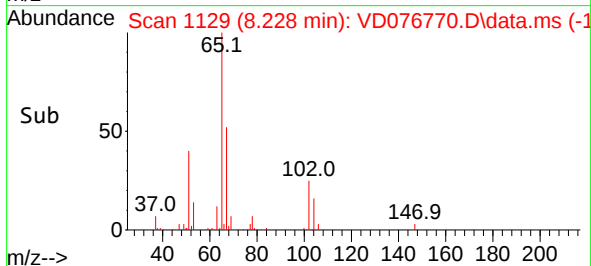
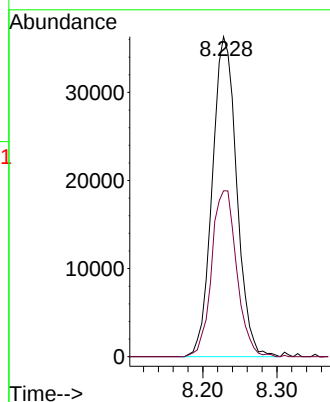
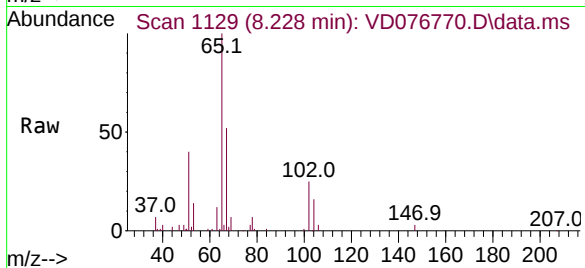
67 53.2 0.0 115.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/19/2023

Supervised By :Mahesh Dadoda 07/19/2023



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.775 min Scan# 1222

Delta R.T. -0.000 min

Lab File: VD076770.D

Acq: 18 Jul 2023 11:32

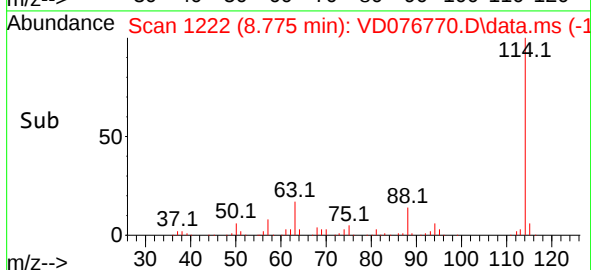
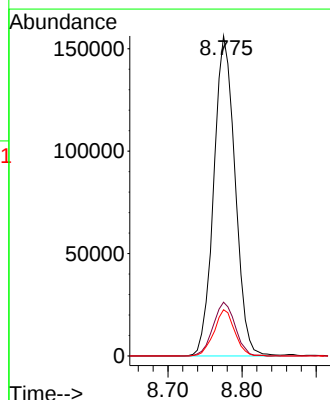
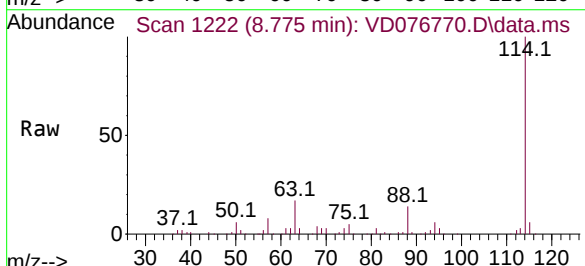
Tgt Ion:114 Resp: 312127

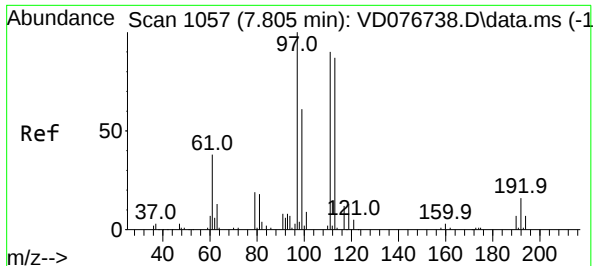
Ion Ratio Lower Upper

114 100

63 16.8 0.0 33.4

88 14.5 0.0 26.2





#35

Dibromofluoromethane

Concen: 49.394 ug/l

RT: 7.804 min Scan# 1057

Delta R.T. -0.001 min

Lab File: VD076770.D

Acq: 18 Jul 2023 11:32

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT3-2023

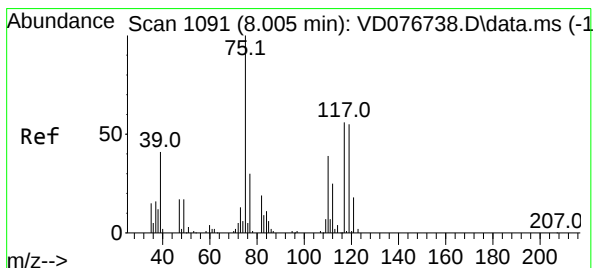
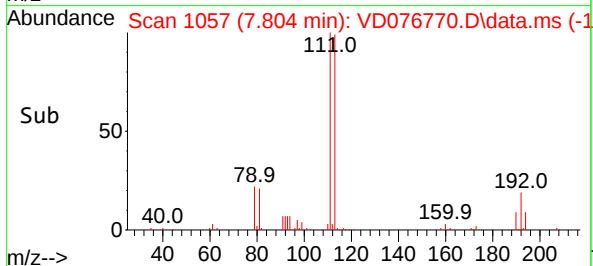
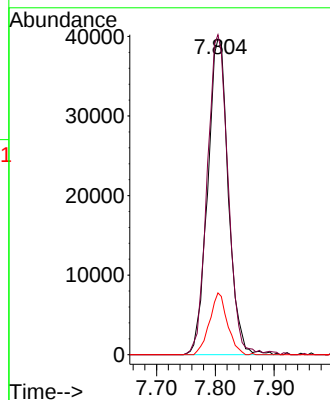
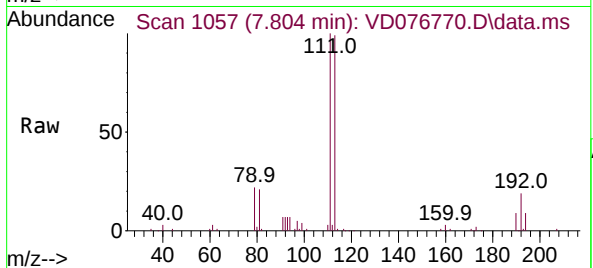
Tgt Ion:	113	Resp:	9688
Ion Ratio	Lower	Upper	
113	100		
111	101.8	84.7	127.1
192	16.9	16.8	25.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/19/2023

Supervised By :Mahesh Dadoda 07/19/2023



#36

1,1-Dichloropropene

Concen: 2.493 ug/l

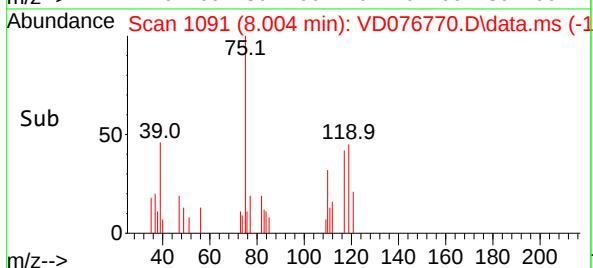
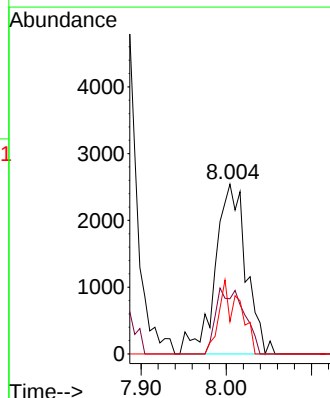
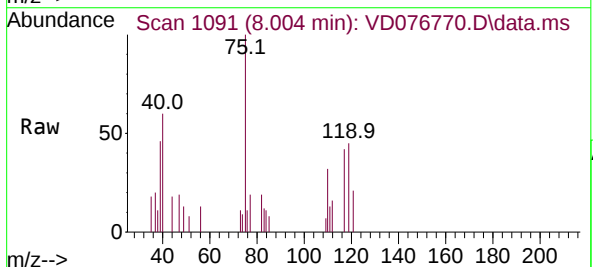
RT: 8.004 min Scan# 1091

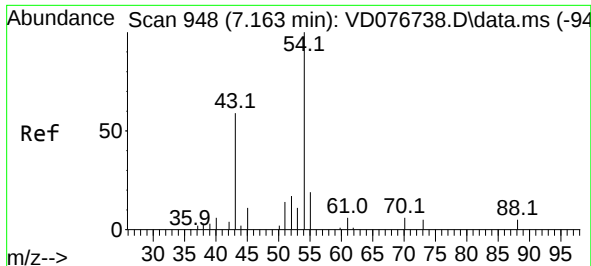
Delta R.T. -0.001 min

Lab File: VD076770.D

Acq: 18 Jul 2023 11:32

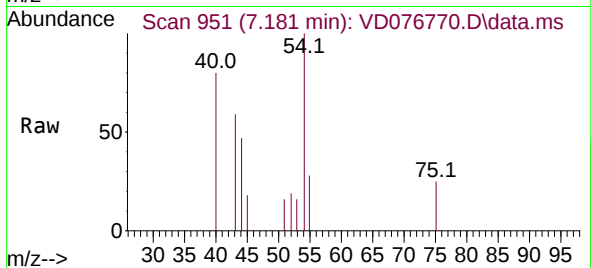
Tgt Ion:	75	Resp:	6390
Ion Ratio	Lower	Upper	
75	100		
110	35.2	19.9	59.6
77	29.2	24.7	37.1





#37
Ethyl Acetate
Concen: 2.655 ug/l m
RT: 7.181 min Scan# 948
Delta R.T. 0.018 min
Lab File: VD076770.D
Acq: 18 Jul 2023 11:32

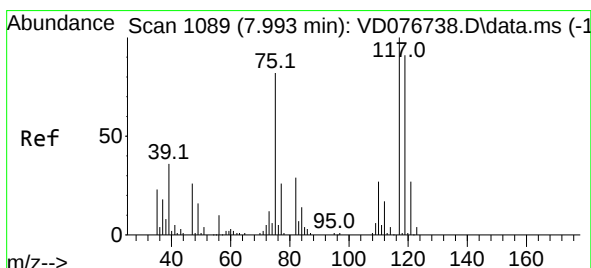
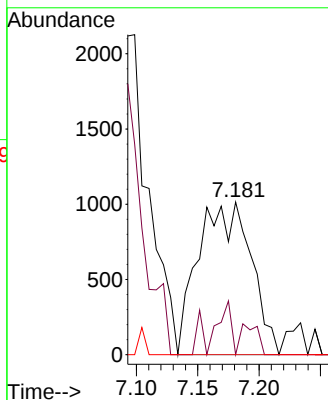
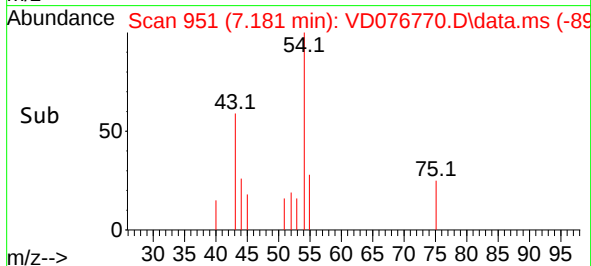
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2023



Tgt Ion: 43 Resp: 304
Ion Ratio Lower Upper
43 100
61 8.8 14.9 22.3
70 0.0 10.0 15.0

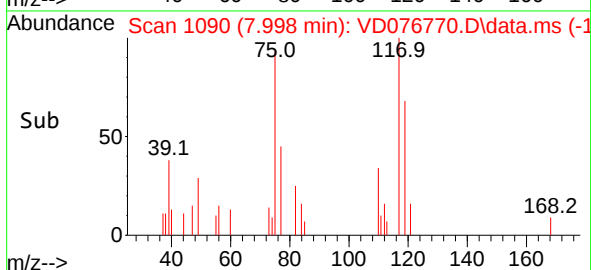
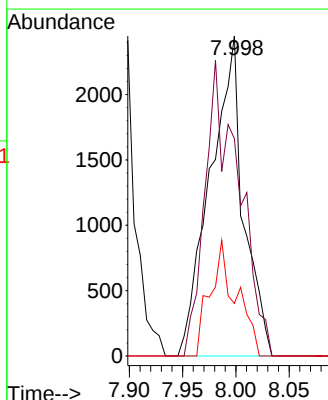
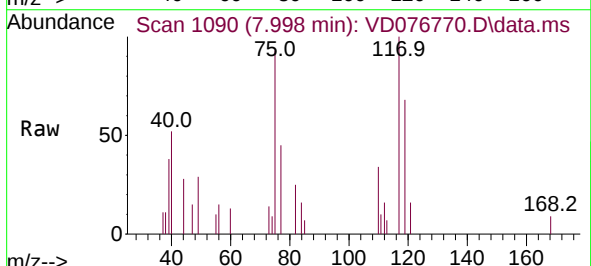
Manual Integrations
APPROVED

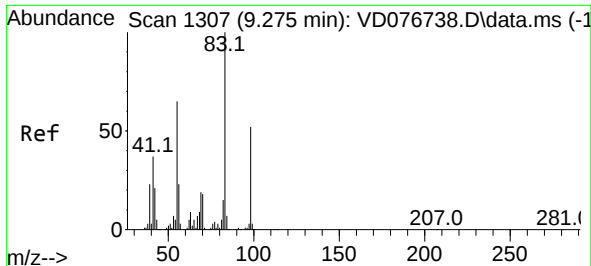
Reviewed By :John Carlone 07/19/2023
Supervised By :Mahesh Dadoda 07/19/2023



#38
Carbon Tetrachloride
Concen: 2.169 ug/l
RT: 7.998 min Scan# 1090
Delta R.T. 0.005 min
Lab File: VD076770.D
Acq: 18 Jul 2023 11:32

Tgt Ion:117 Resp: 5324
Ion Ratio Lower Upper
117 100
119 67.9 78.0 117.0#
121 16.4 24.2 36.2#





#39

Methylcyclohexane

Concen: 2.221 ug/l

RT: 9.263 min Scan# 1130

Delta R.T. -0.012 min

Lab File: VD076770.D

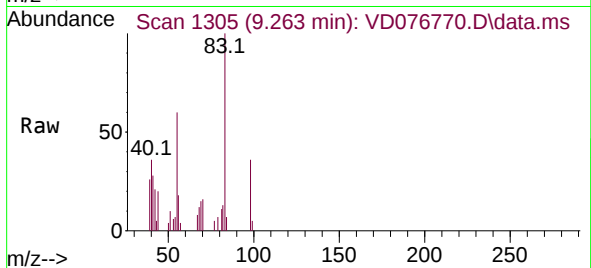
Acq: 18 Jul 2023 11:32

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT3-2023



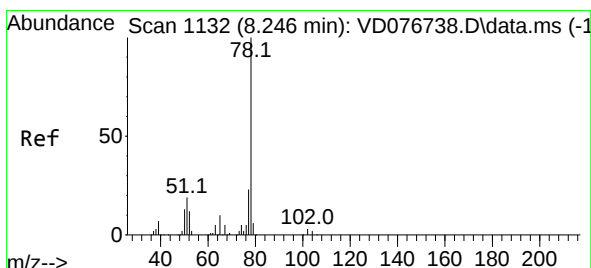
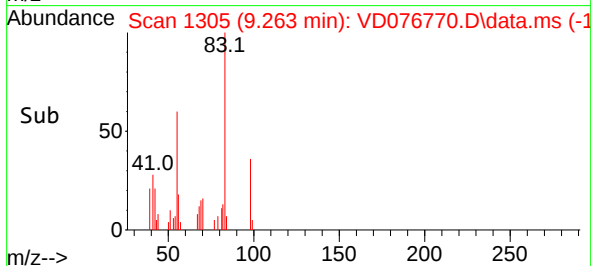
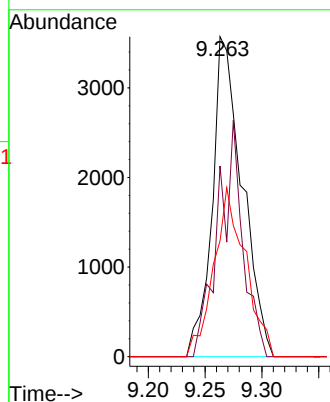
Tgt Ion: 83	Resp: 6572
Ion Ratio	Lower Upper
83 100	
55 59.6	49.4 74.0
98 36.2	38.4 57.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/19/2023

Supervised By :Mahesh Dadoda 07/19/2023



#40

Benzene

Concen: 2.277 ug/l

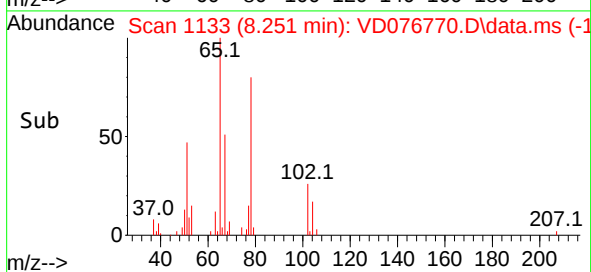
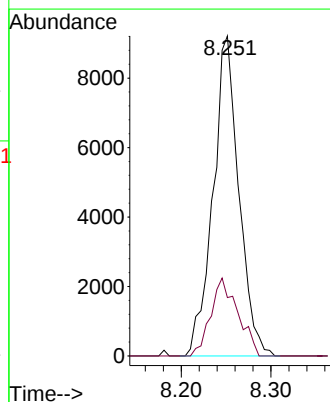
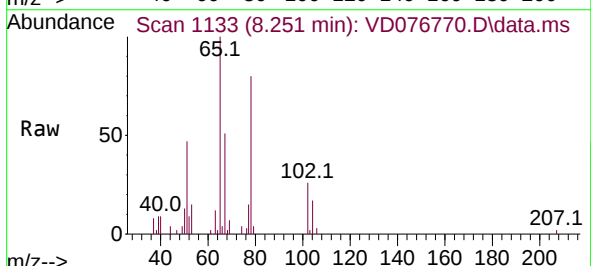
RT: 8.251 min Scan# 1133

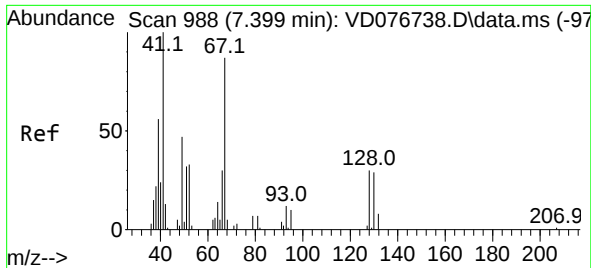
Delta R.T. 0.005 min

Lab File: VD076770.D

Acq: 18 Jul 2023 11:32

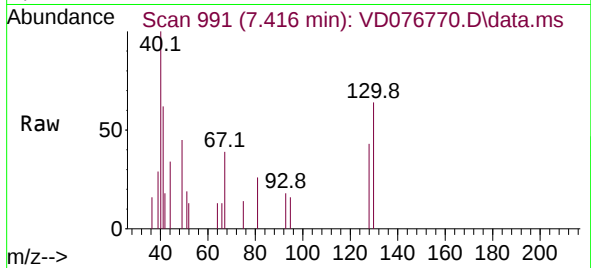
Tgt Ion: 78	Resp: 18411
Ion Ratio	Lower Upper
78 100	
77 18.3	19.4 29.0





#41
Methacrylonitrile
Concen: 2.743 ug/l m
RT: 7.416 min Scan# 91
Delta R.T. 0.017 min
Lab File: VD076770.D
Acq: 18 Jul 2023 11:32

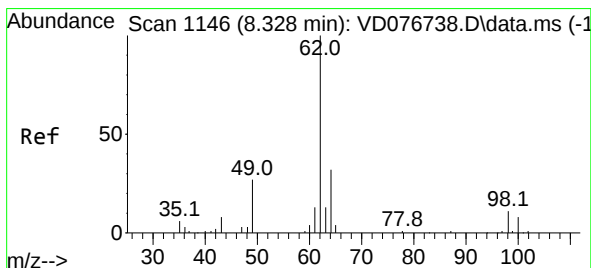
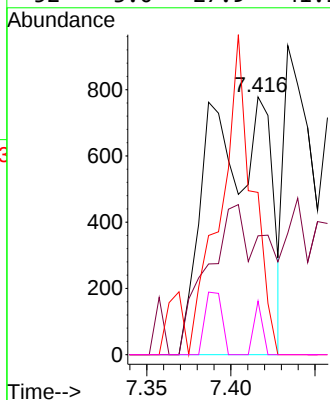
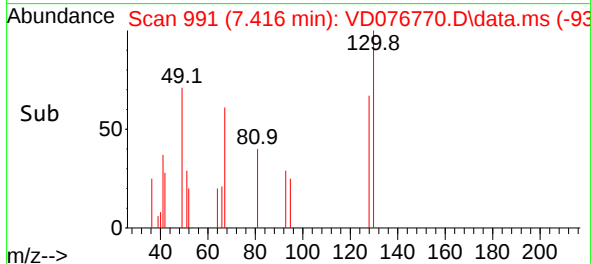
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2023



Tgt Ion: 41 Resp: 1920
Ion Ratio Lower Upper
41 100
39 45.6 34.0 51.0
67 66.2 77.0 115.4
52 3.0 27.9 41.9#

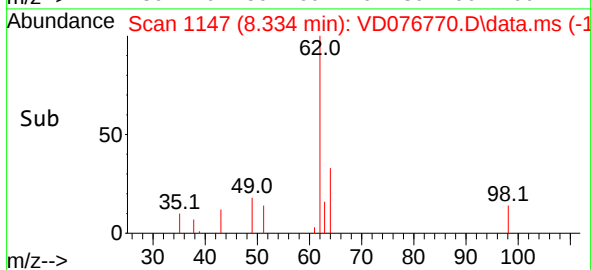
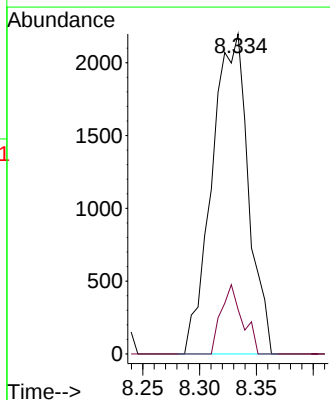
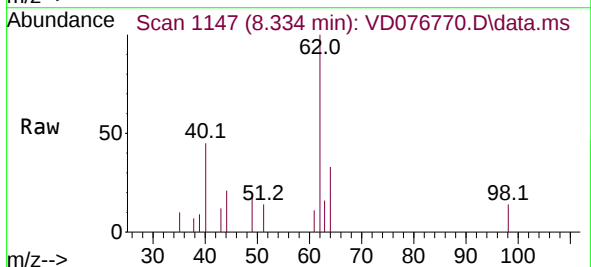
Manual Integrations
APPROVED

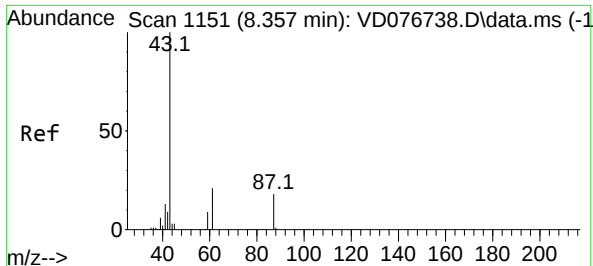
Reviewed By :John Carlone 07/19/2023
Supervised By :Mahesh Dadoda 07/19/2023



#42
1,2-Dichloroethane
Concen: 2.327 ug/l
RT: 8.334 min Scan# 1147
Delta R.T. 0.006 min
Lab File: VD076770.D
Acq: 18 Jul 2023 11:32

Tgt Ion: 62 Resp: 4889
Ion Ratio Lower Upper
62 100
98 12.7 0.0 25.4





#43

Isopropyl Acetate

Concen: 2.112 ug/l

RT: 8.363 min Scan# 1152

Delta R.T. 0.006 min

Lab File: VD076770.D

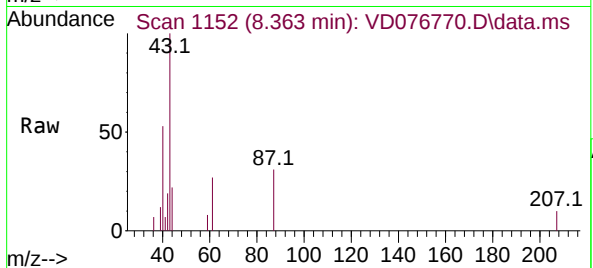
Acq: 18 Jul 2023 11:32

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT3-2023

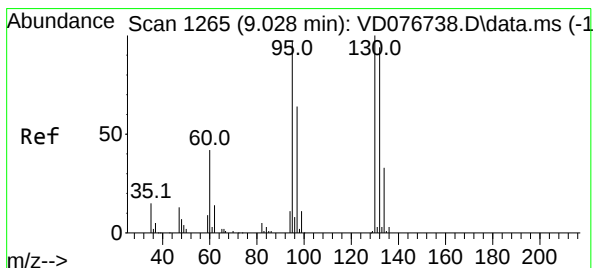
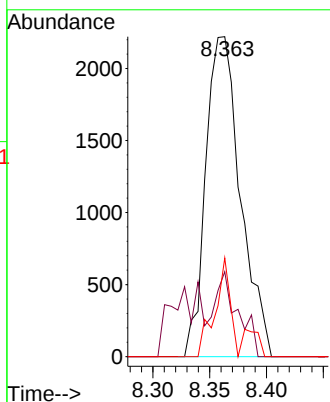
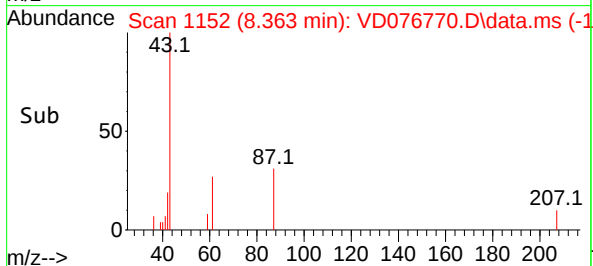


Tgt Ion: 43	Resp: 472
Ion Ratio	Lower Upper
43	100
61	18.2 31.4 47.0
87	13.6 14.9 22.3

Manual Integrations
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Reviewed By :John Carlone 07/19/2023

Supervised By :Mahesh Dadoda 07/19/2023



#44

Trichloroethene

Concen: 2.242 ug/l

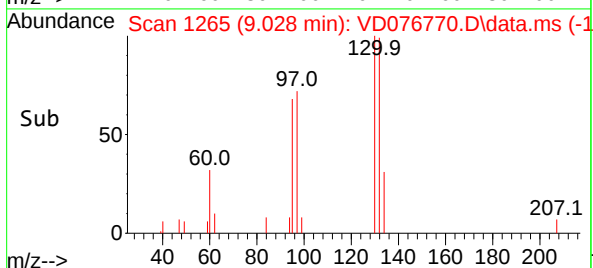
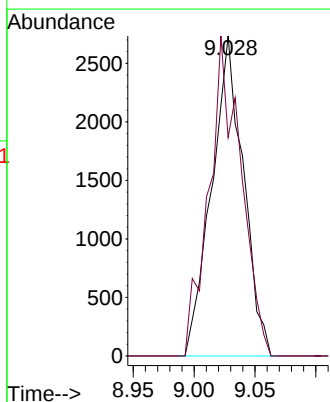
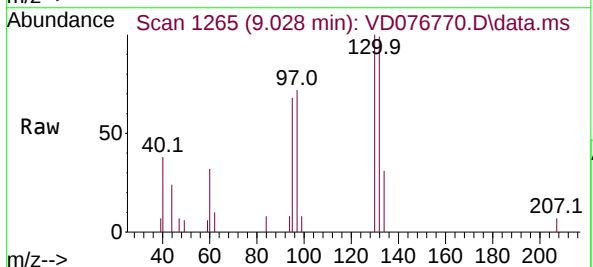
RT: 9.028 min Scan# 1265

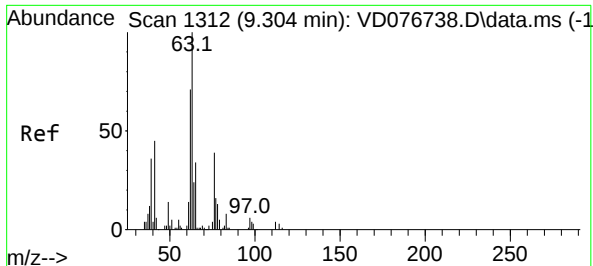
Delta R.T. -0.000 min

Lab File: VD076770.D

Acq: 18 Jul 2023 11:32

Tgt Ion:130	Resp: 4940
Ion Ratio	Lower Upper
130	100
95	68.3 0.0 179.2





#45

1,2-Dichloropropane

Concen: 2.377 ug/l

RT: 9.304 min Scan# 1312

Delta R.T. 0.000 min

Lab File: VD076770.D

Acq: 18 Jul 2023 11:32

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT3-2023

Tgt Ion: 63 Resp: 496

Ion Ratio Lower Upper

63 100

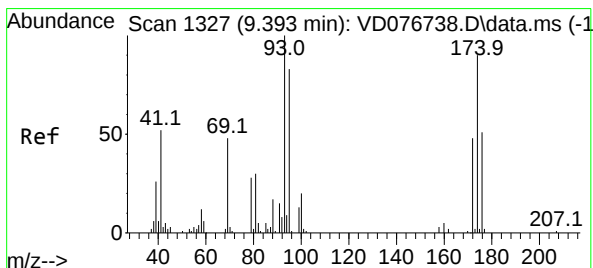
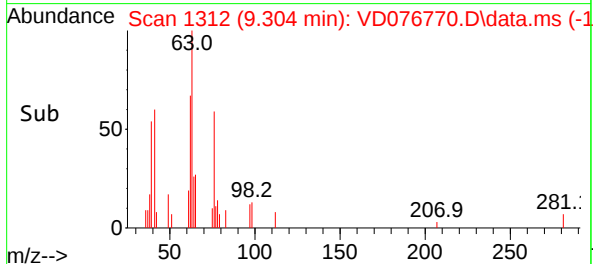
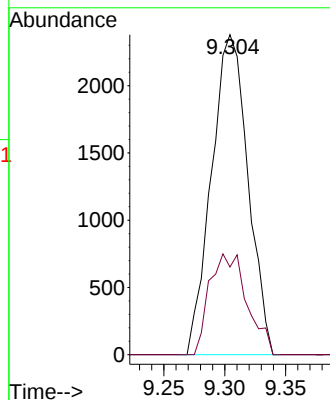
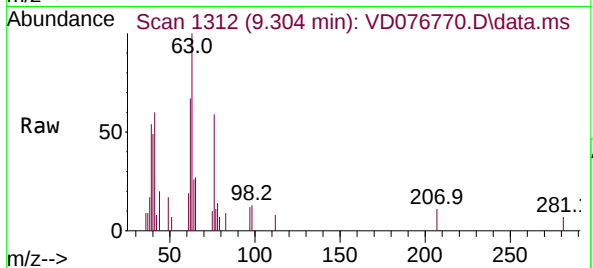
65 27.4 24.5 36.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/19/2023

Supervised By :Mahesh Dadoda 07/19/2023



#46

Dibromomethane

Concen: 2.565 ug/l

RT: 9.393 min Scan# 1327

Delta R.T. -0.000 min

Lab File: VD076770.D

Acq: 18 Jul 2023 11:32

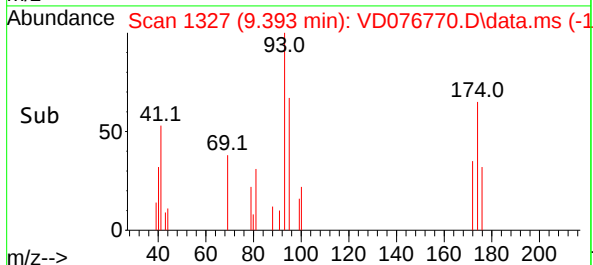
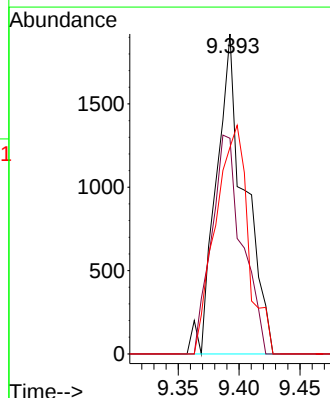
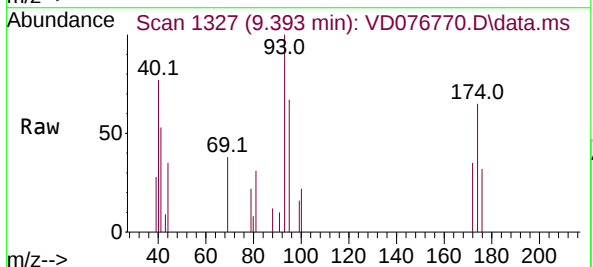
Tgt Ion: 93 Resp: 3134

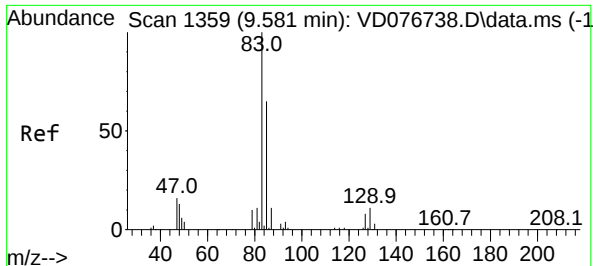
Ion Ratio Lower Upper

93 100

95 73.0 67.7 101.5

174 81.8 85.4 128.2#





#47

Bromodichloromethane

Concen: 2.352 ug/l

RT: 9.587 min Scan# 1359

Delta R.T. 0.006 min

Lab File: VD076770.D

Acq: 18 Jul 2023 11:32

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT3-2023

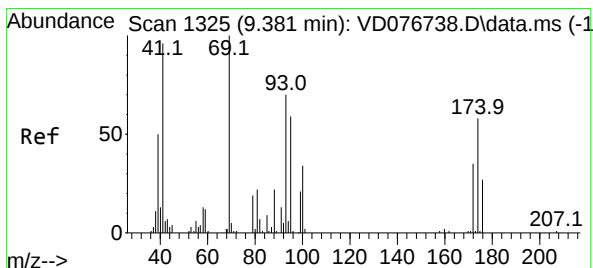
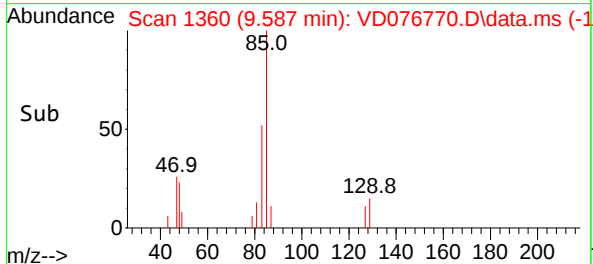
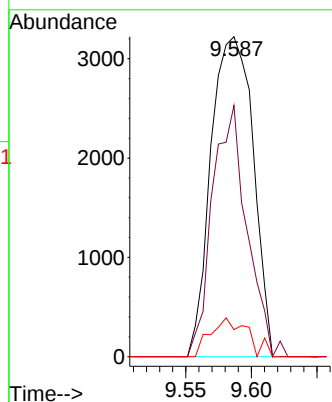
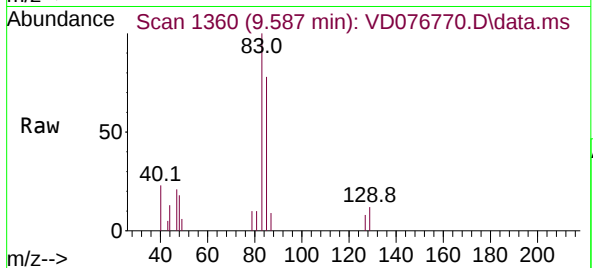
Tgt Ion:	83	Resp:	721
Ion	Ratio	Lower	Upper
83	100		
85	78.5	50.2	75.4
127	8.4	6.3	9.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/19/2023

Supervised By :Mahesh Dadoda 07/19/2023



#48

Methyl methacrylate

Concen: 2.378 ug/l

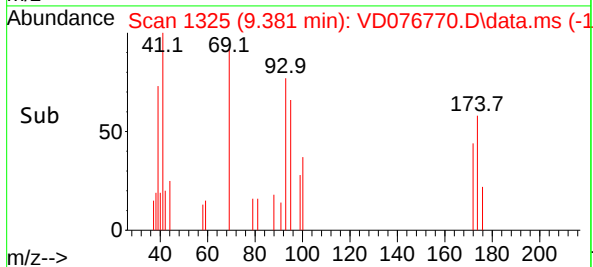
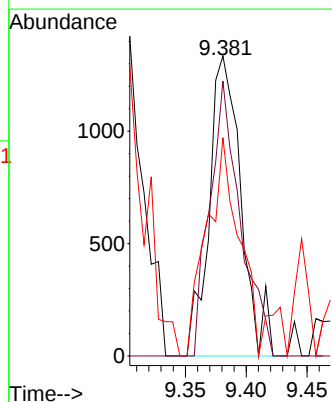
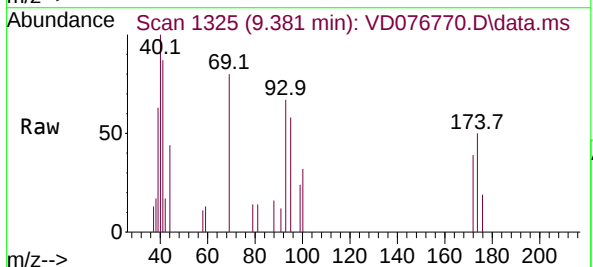
RT: 9.381 min Scan# 1325

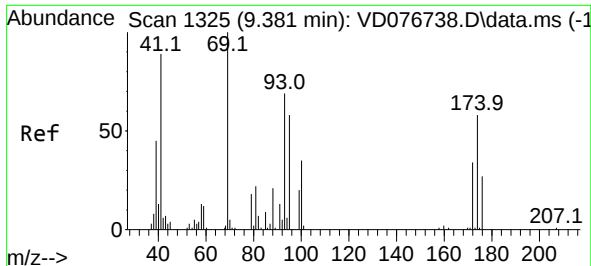
Delta R.T. -0.000 min

Lab File: VD076770.D

Acq: 18 Jul 2023 11:32

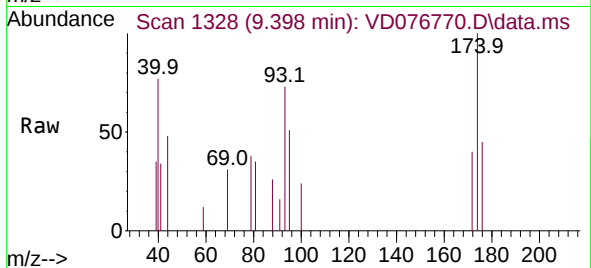
Tgt Ion:	41	Resp:	2421
Ion	Ratio	Lower	Upper
41	100		
69	88.6	102.2	153.2
39	73.9	41.4	62.2





#49
1,4-Dioxane
Concen: 30.085 ug/l
RT: 9.398 min Scan# 1328
Delta R.T. 0.017 min
Lab File: VD076770.D
Acq: 18 Jul 2023 11:32

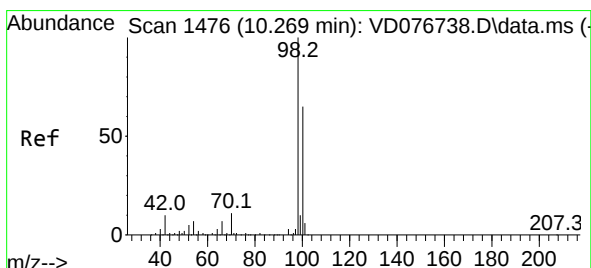
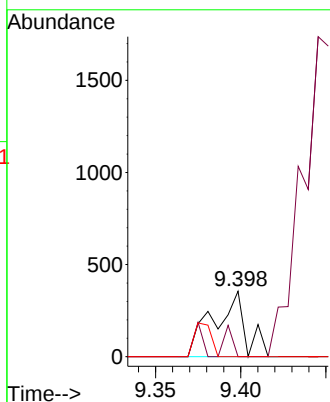
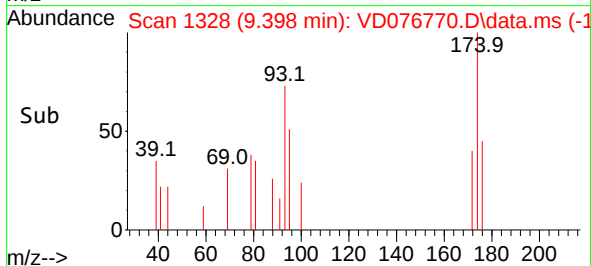
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2023



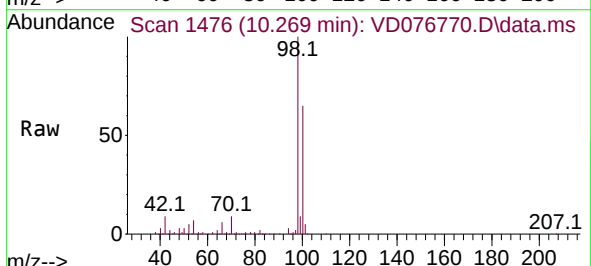
Tgt Ion: 88 Resp: 47
Ion Ratio Lower Upper
88 100
43 0.0 19.0 28.6
58 0.0 43.5 65.3

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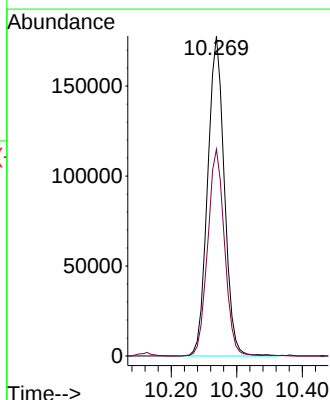
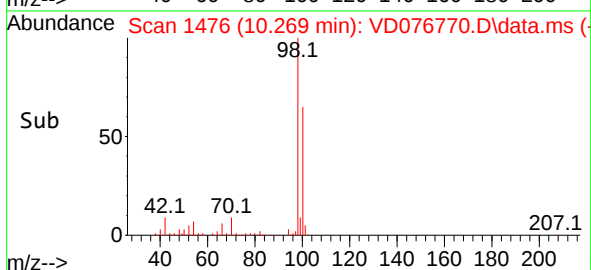
Reviewed By :John Carlone 07/19/2023
Supervised By :Mahesh Dadoda 07/19/2023

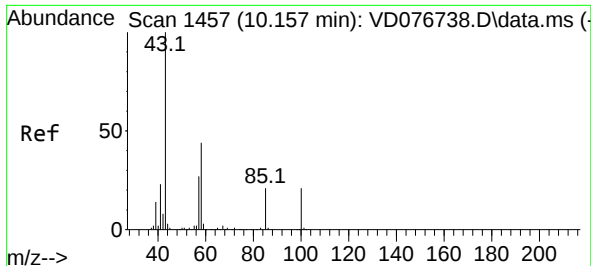


#50
Toluene-d8
Concen: 44.716 ug/l
RT: 10.269 min Scan# 1476
Delta R.T. -0.000 min
Lab File: VD076770.D
Acq: 18 Jul 2023 11:32



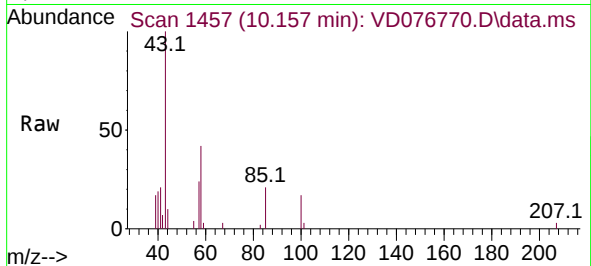
Tgt Ion: 98 Resp: 313765
Ion Ratio Lower Upper
98 100
100 65.2 50.3 75.5





#51
4-Methyl-2-Pentanone
Concen: 10.865 ug/l
RT: 10.157 min Scan# 1457
Delta R.T. 0.000 min
Lab File: VD076770.D
Acq: 18 Jul 2023 11:32

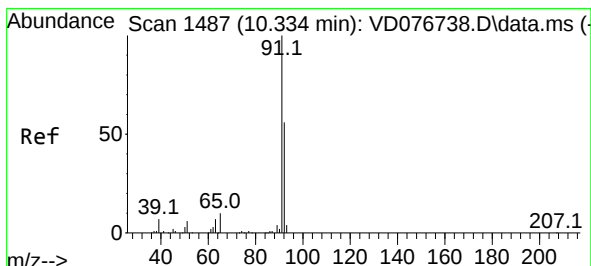
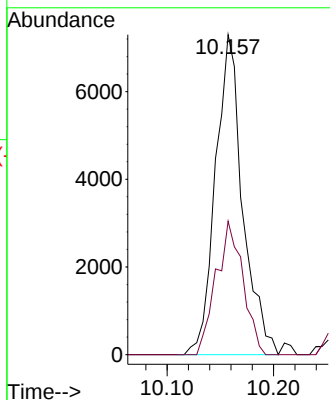
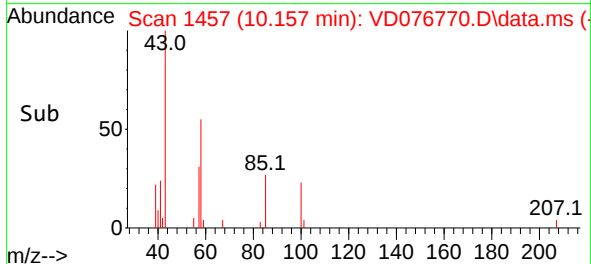
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2023



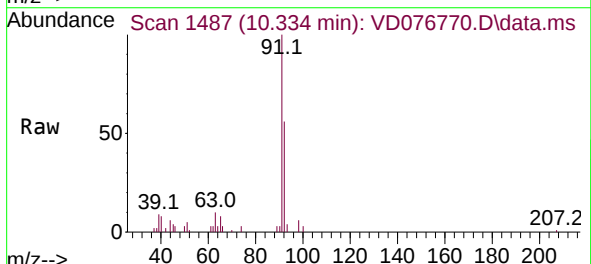
Tgt Ion: 43 Resp: 1294
Ion Ratio Lower Upper
43 100
58 41.0 38.9 58.3

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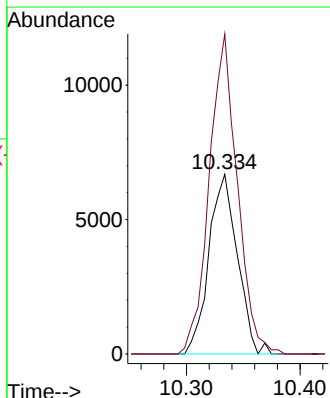
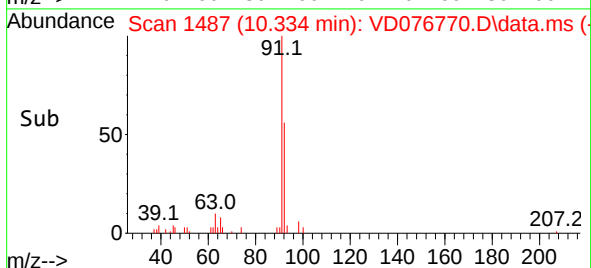
Reviewed By :John Carlone 07/19/2023
Supervised By :Mahesh Dadoda 07/19/2023

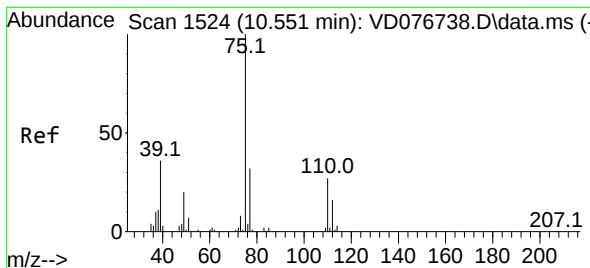


#52
Toluene
Concen: 2.189 ug/l
RT: 10.334 min Scan# 1487
Delta R.T. -0.000 min
Lab File: VD076770.D
Acq: 18 Jul 2023 11:32



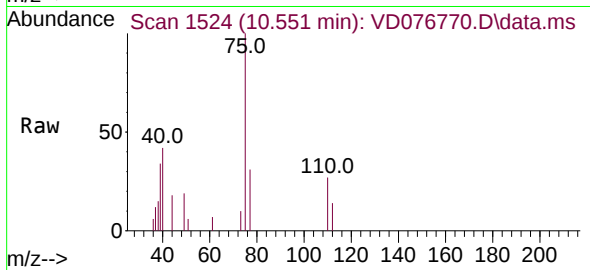
Tgt Ion: 92 Resp: 11626
Ion Ratio Lower Upper
92 100
91 176.1 143.0 214.4





#53
 t-1,3-Dichloropropene
 Concen: 2.256 ug/l
 RT: 10.551 min Scan# 1524
 Delta R.T. 0.000 min
 Lab File: VD076770.D
 Acq: 18 Jul 2023 11:32

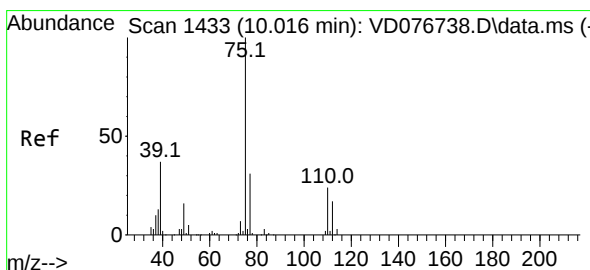
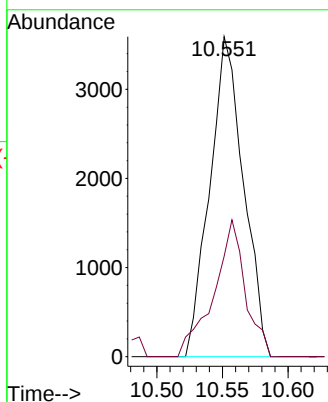
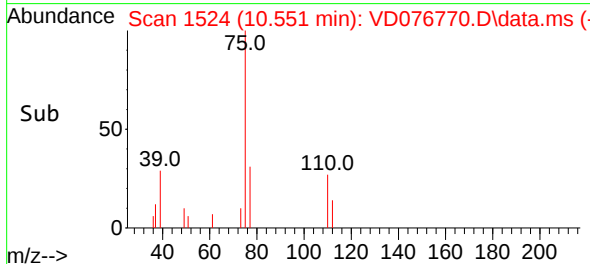
Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT3-2023



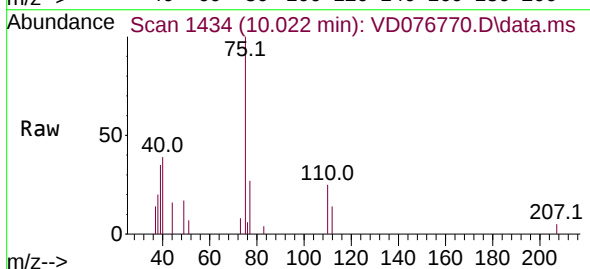
Tgt Ion: 75 Resp: 6420
 Ion Ratio Lower Upper
 75 100
 77 31.4 25.3 37.9

Manual Integrations
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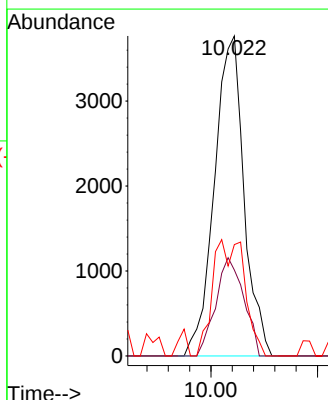
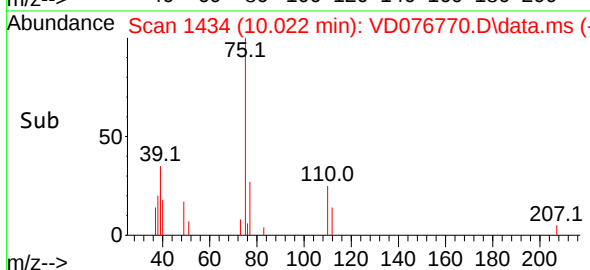
Reviewed By :John Carlone 07/19/2023
 Supervised By :Mahesh Dadoda 07/19/2023

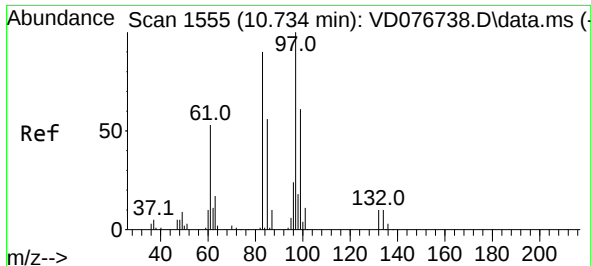


#54
 cis-1,3-Dichloropropene
 Concen: 2.166 ug/l
 RT: 10.022 min Scan# 1434
 Delta R.T. 0.006 min
 Lab File: VD076770.D
 Acq: 18 Jul 2023 11:32



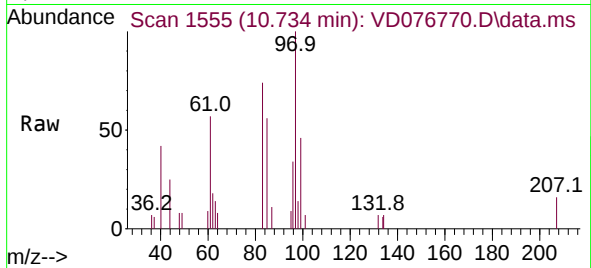
Tgt Ion: 75 Resp: 7265
 Ion Ratio Lower Upper
 75 100
 77 26.9 25.5 38.3
 39 34.8 22.1 33.1#





#55
1,1,2-Trichloroethane
Concen: 2.423 ug/l
RT: 10.734 min Scan# 1555
Delta R.T. -0.000 min
Lab File: VD076770.D
Acq: 18 Jul 2023 11:32

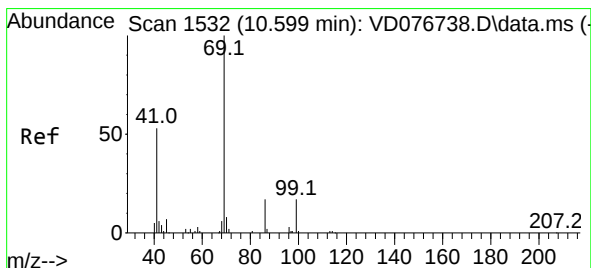
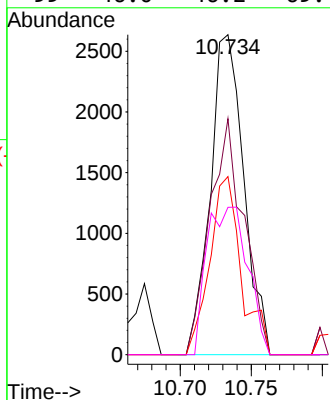
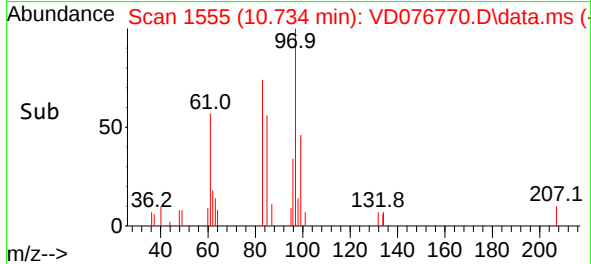
Instrument : MSVOA_D
ClientSampleId : MDL-SOIL-03-QT3-2023



Tgt Ion:	97	Resp:	4324
Ion	Ratio	Lower	Upper
97	100		
83	73.8	65.8	98.6
85	55.7	45.7	68.5
99	46.0	46.2	69.4#

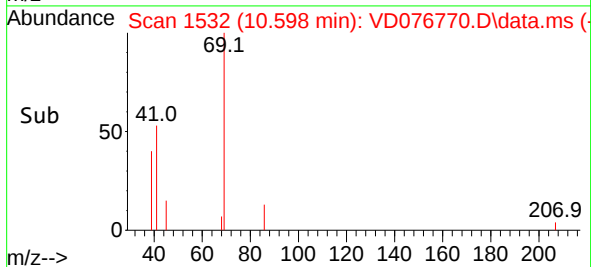
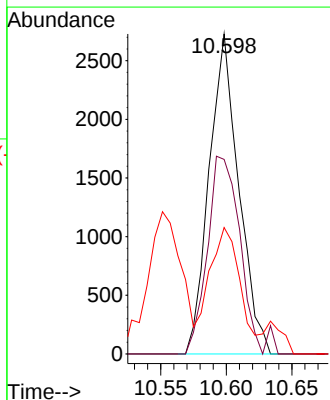
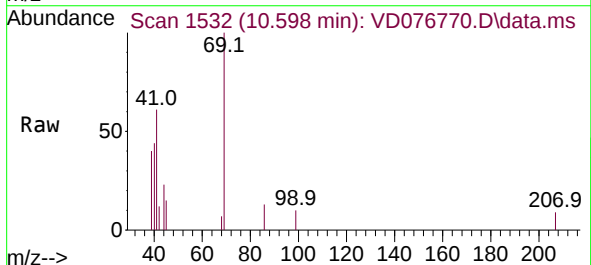
Manual Integrations
APPROVED

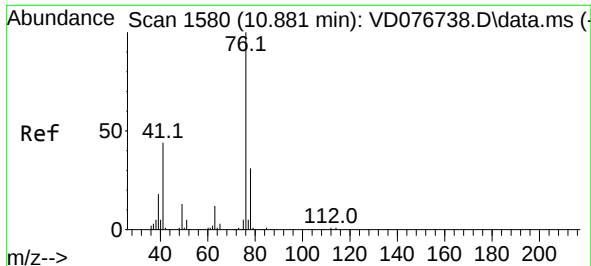
Reviewed By :John Carlone 07/19/2023
Supervised By :Mahesh Dadoda 07/19/2023



#56
Ethyl methacrylate
Concen: 2.080 ug/l
RT: 10.598 min Scan# 1532
Delta R.T. -0.001 min
Lab File: VD076770.D
Acq: 18 Jul 2023 11:32

Tgt Ion:	69	Resp:	4284
Ion	Ratio	Lower	Upper
69	100		
41	66.9	39.1	58.7#
39	41.3	20.0	30.0#





#57

1,3-Dichloropropane

Concen: 2.312 ug/l

RT: 10.881 min Scan# 1580

Delta R.T. -0.000 min

Lab File: VD076770.D

Acq: 18 Jul 2023 11:32

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT3-2023

Tgt Ion: 76 Resp: 6719

Ion Ratio Lower Upper

76 100

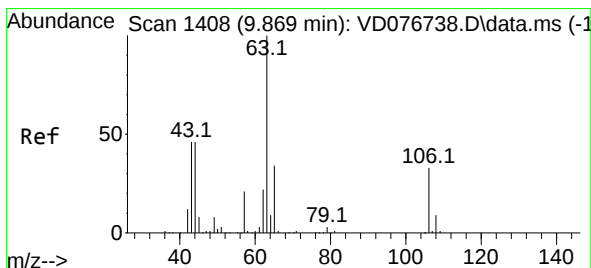
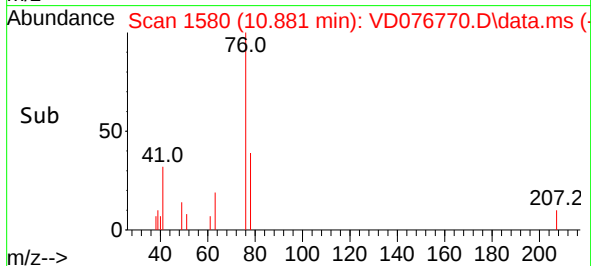
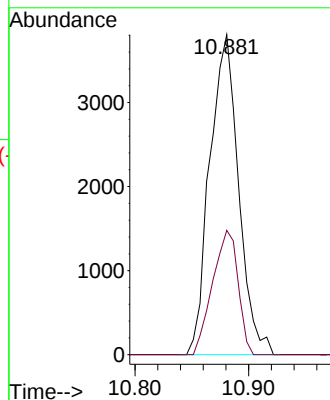
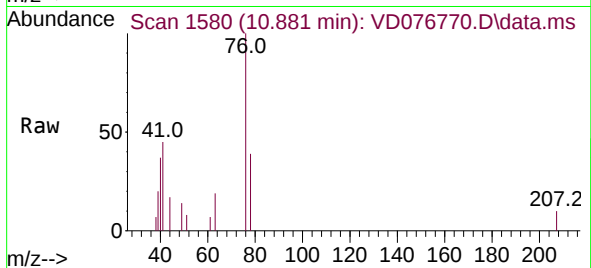
78 34.3 26.4 39.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/19/2023

Supervised By :Mahesh Dadoda 07/19/2023



#58

2-Chloroethyl Vinyl ether

Concen: 11.615 ug/l

RT: 9.869 min Scan# 1408

Delta R.T. -0.000 min

Lab File: VD076770.D

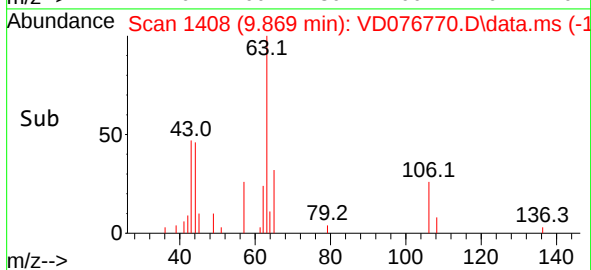
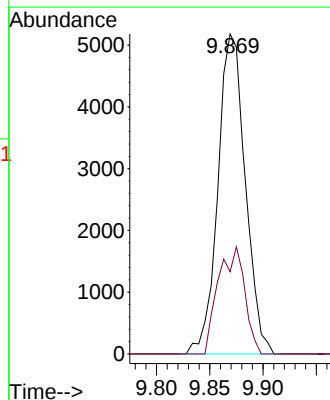
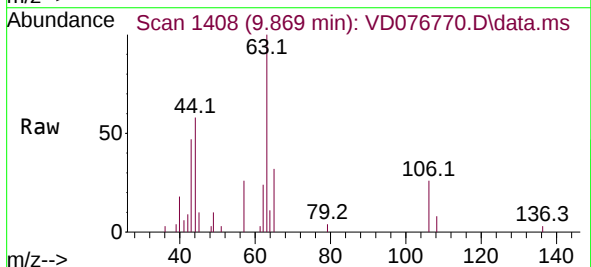
Acq: 18 Jul 2023 11:32

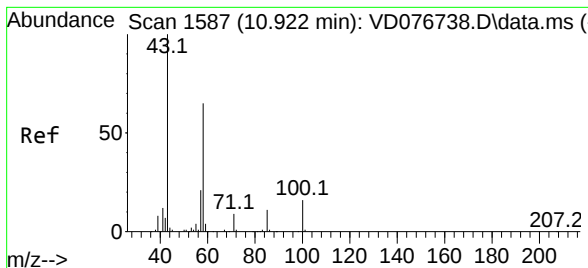
Tgt Ion: 63 Resp: 9259

Ion Ratio Lower Upper

63 100

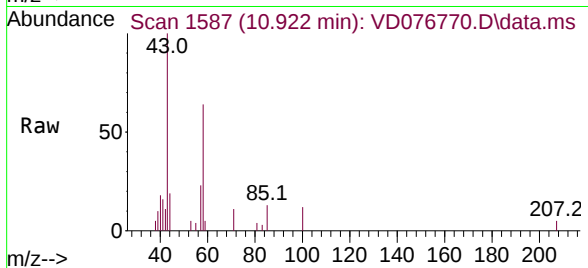
106 32.3 25.3 37.9





#59
2-Hexanone
Concen: 10.361 ug/l
RT: 10.922 min Scan# 11
Delta R.T. -0.000 min
Lab File: VD076770.D
Acq: 18 Jul 2023 11:32

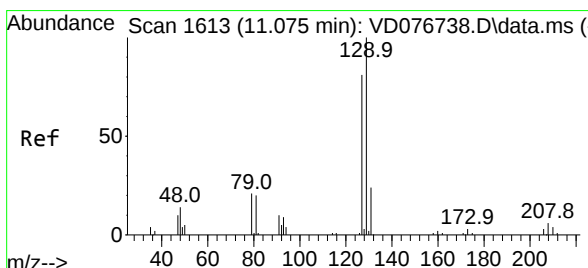
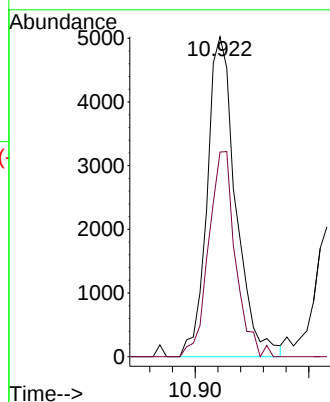
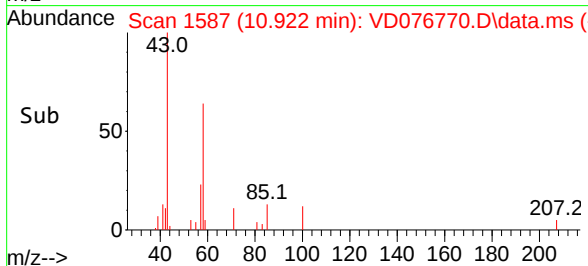
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2023



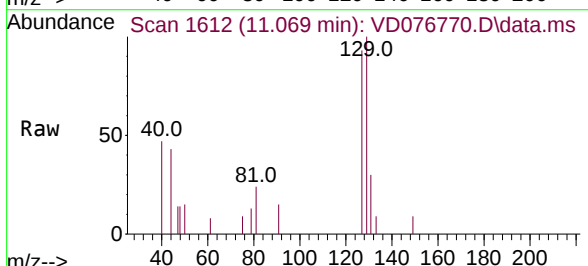
Tgt Ion: 43 Resp: 880
Ion Ratio Lower Upper
43 100
58 60.0 34.1 102.2

Manual Integrations
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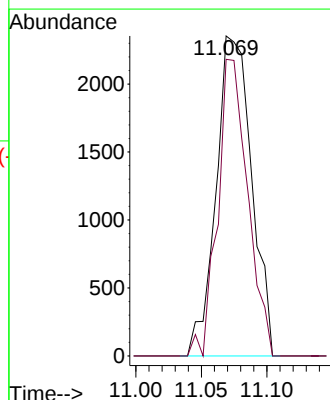
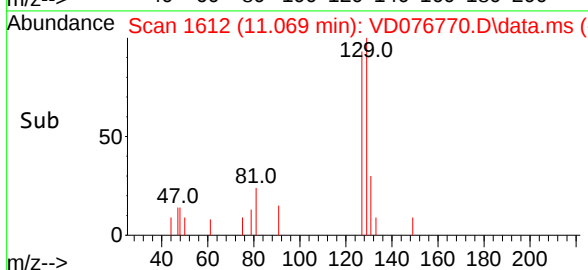
Reviewed By :John Carlone 07/19/2023
Supervised By :Mahesh Dadoda 07/19/2023

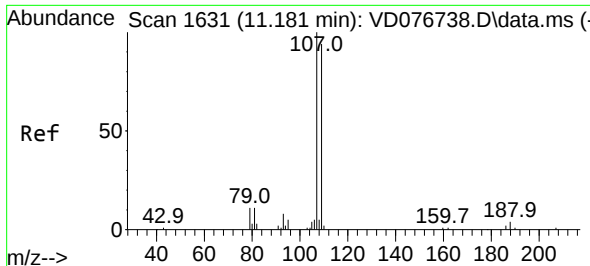


#60
Dibromochloromethane
Concen: 2.142 ug/l
RT: 11.069 min Scan# 1612
Delta R.T. -0.006 min
Lab File: VD076770.D
Acq: 18 Jul 2023 11:32



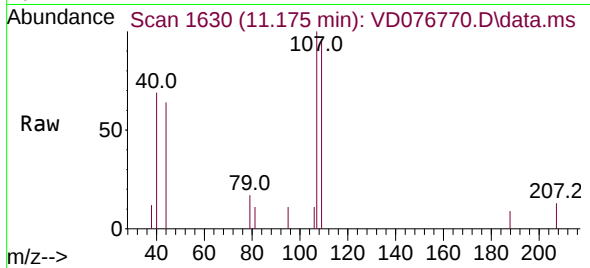
Tgt Ion:129 Resp: 4440
Ion Ratio Lower Upper
129 100
127 78.1 37.1 111.5





#61
1,2-Dibromoethane
Concen: 2.059 ug/l
RT: 11.175 min Scan# 1631
Delta R.T. -0.006 min
Lab File: VD076770.D
Acq: 18 Jul 2023 11:32

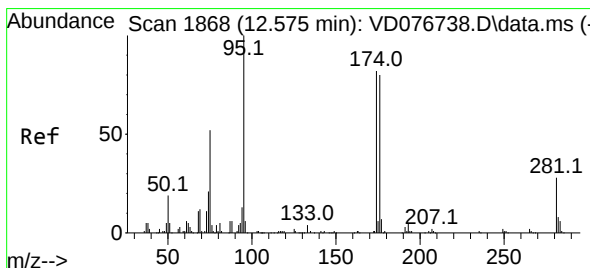
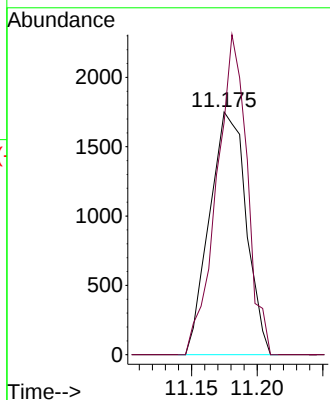
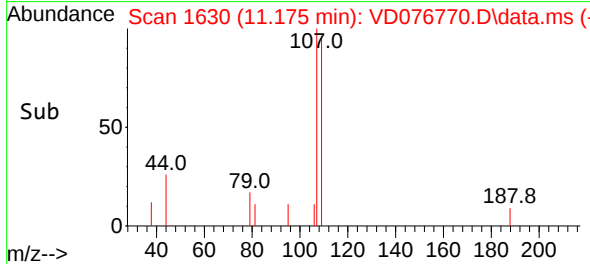
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2023



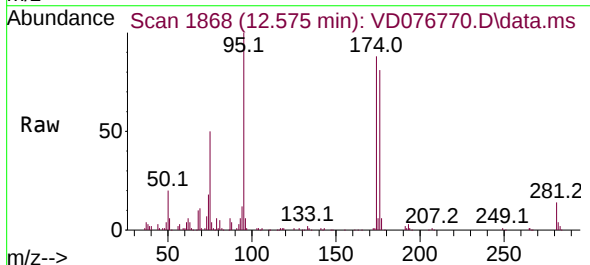
Tgt Ion:107 Resp: 3400
Ion Ratio Lower Upper
107 100
109 109.6 75.6 113.4

Manual Integrations
APPROVED

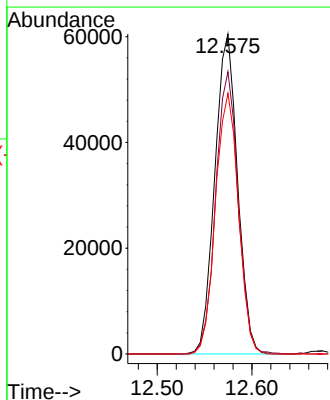
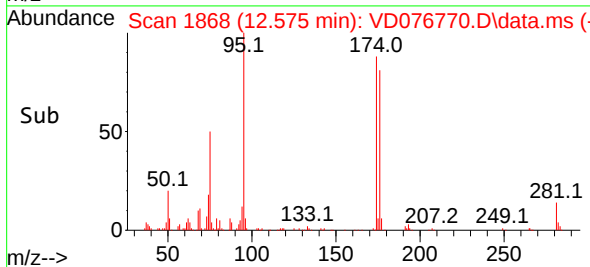
Reviewed By :John Carlone 07/19/2023
Supervised By :Mahesh Dadoda 07/19/2023

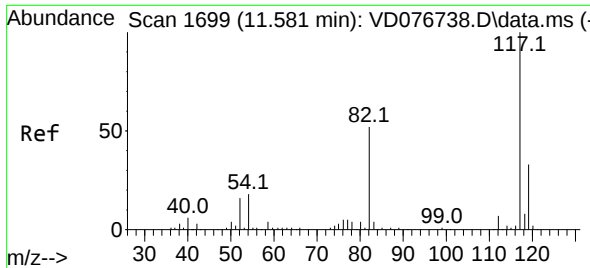


#62
4-Bromofluorobenzene
Concen: 44.556 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. -0.000 min
Lab File: VD076770.D
Acq: 18 Jul 2023 11:32



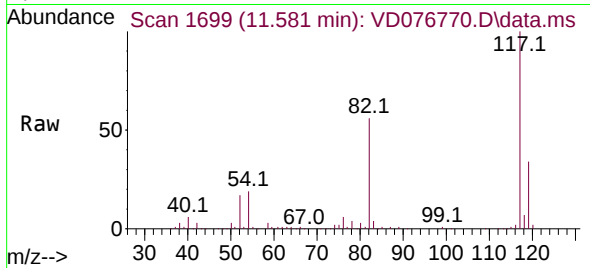
Tgt Ion: 95 Resp: 101138
Ion Ratio Lower Upper
95 100
174 86.9 0.0 201.8
176 82.0 0.0 191.8





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.581 min Scan# 1159
Delta R.T. -0.000 min
Lab File: VD076770.D
Acq: 18 Jul 2023 11:32

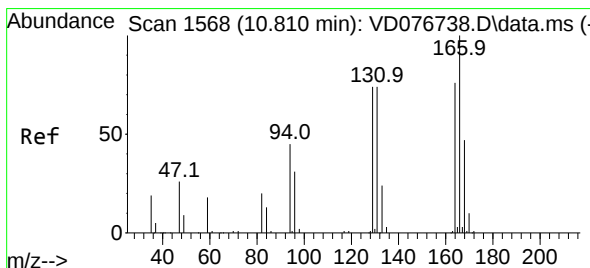
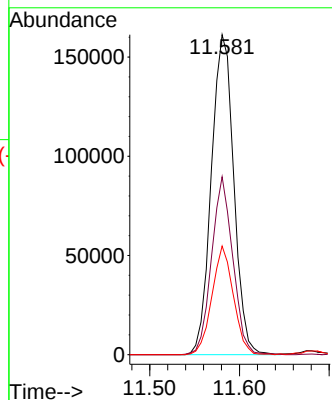
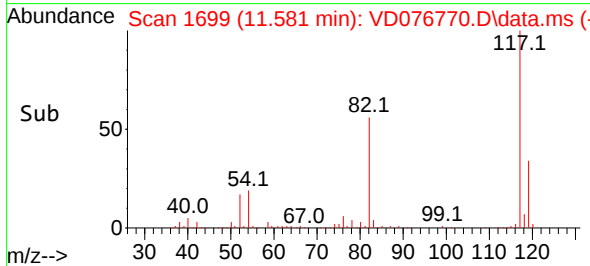
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2023



Tgt Ion:117 Resp: 280375
Ion Ratio Lower Upper
117 100
82 55.6 38.3 57.5
119 33.9 25.0 37.4

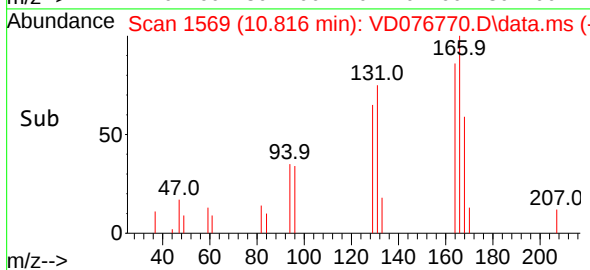
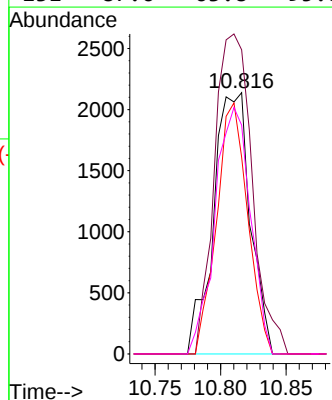
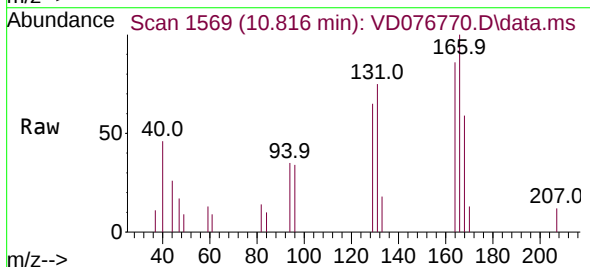
Manual Integrations
APPROVED

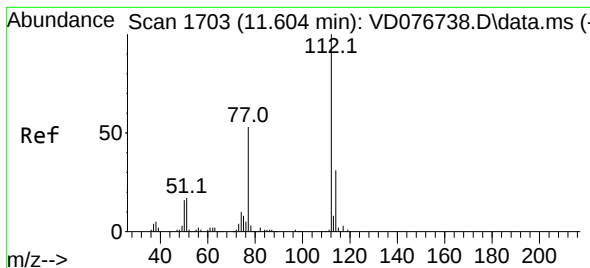
Reviewed By :John Carlone 07/19/2023
Supervised By :Mahesh Dadoda 07/19/2023



#64
Tetrachloroethene
Concen: 2.611 ug/l
RT: 10.816 min Scan# 1569
Delta R.T. 0.006 min
Lab File: VD076770.D
Acq: 18 Jul 2023 11:32

Tgt Ion:164 Resp: 4175
Ion Ratio Lower Upper
164 100
166 116.4 99.2 148.8
129 75.3 68.4 102.6
131 87.6 63.8 95.8





#65

Chlorobenzene

Concen: 2.318 ug/l

RT: 11.604 min Scan# 11

Delta R.T. 0.000 min

Lab File: VD076770.D

Acq: 18 Jul 2023 11:32

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT3-2023

Tgt Ion:112 Resp: 1307

Ion Ratio Lower Upper

112 100

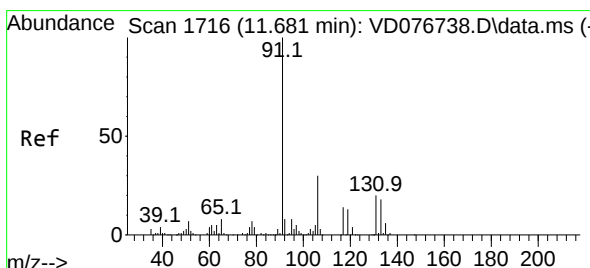
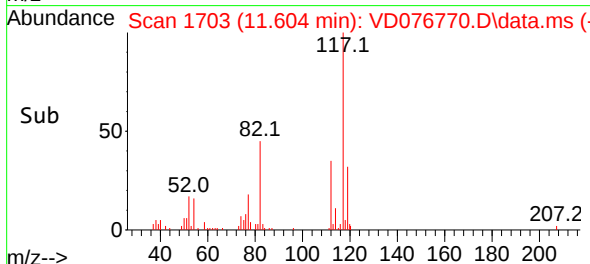
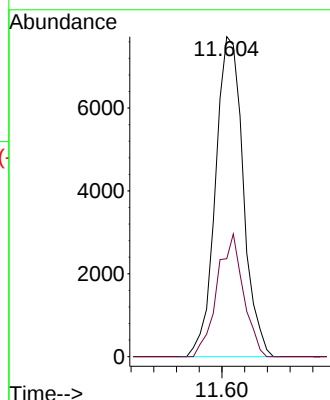
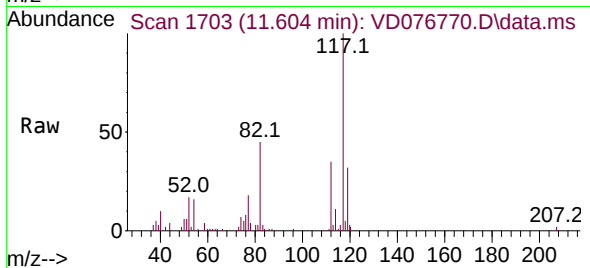
114 30.6 25.1 37.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/19/2023

Supervised By :Mahesh Dadoda 07/19/2023



#66

1,1,1,2-Tetrachloroethane

Concen: 2.281 ug/l

RT: 11.687 min Scan# 1717

Delta R.T. 0.006 min

Lab File: VD076770.D

Acq: 18 Jul 2023 11:32

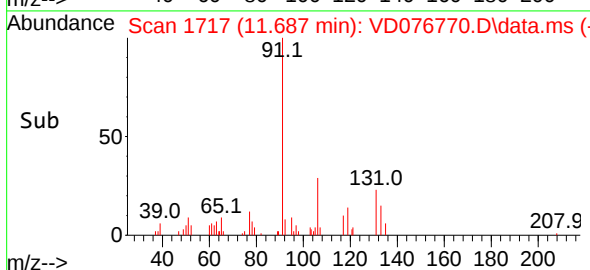
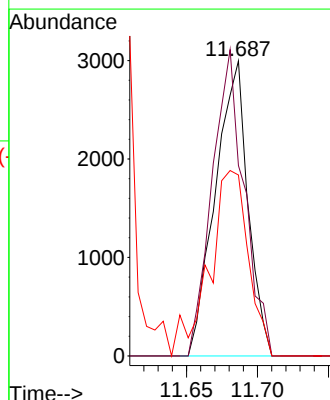
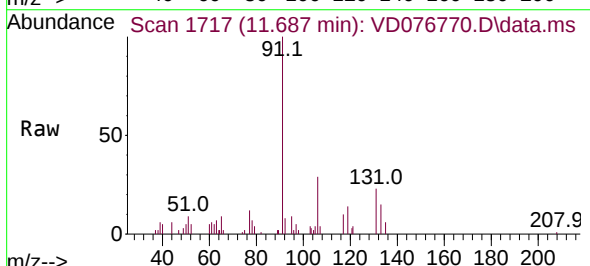
Tgt Ion:131 Resp: 4788

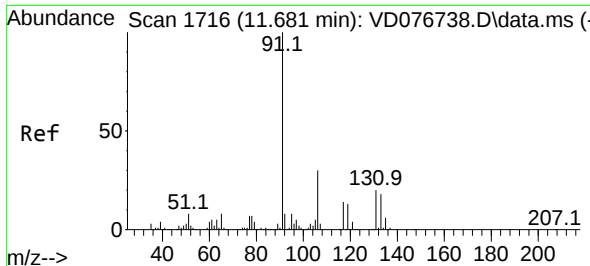
Ion Ratio Lower Upper

131 100

133 102.0 48.5 145.5

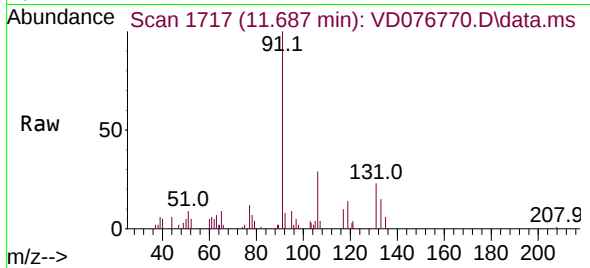
119 74.8 35.6 106.9





#67
Ethyl Benzene
Concen: 2.238 ug/l
RT: 11.687 min Scan# 1716
Delta R.T. 0.006 min
Lab File: VD076770.D
Acq: 18 Jul 2023 11:32

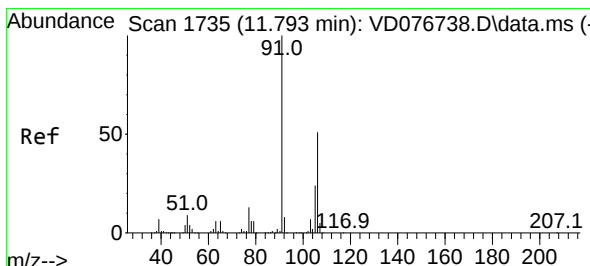
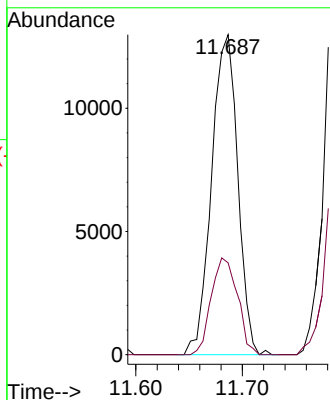
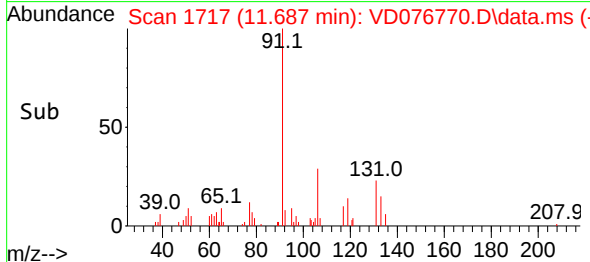
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2023



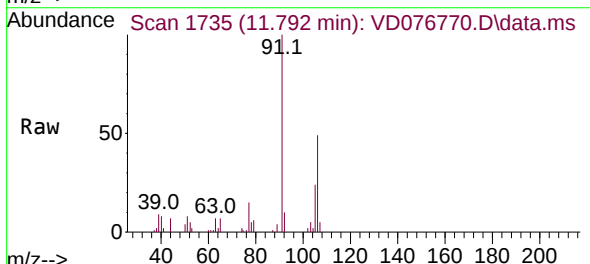
Tgt Ion: 91 Resp: 22168
Ion Ratio Lower Upper
91 100
106 28.7 26.5 39.7

Manual Integrations
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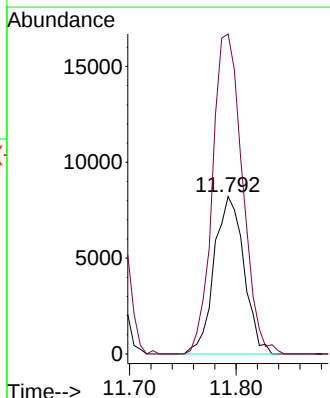
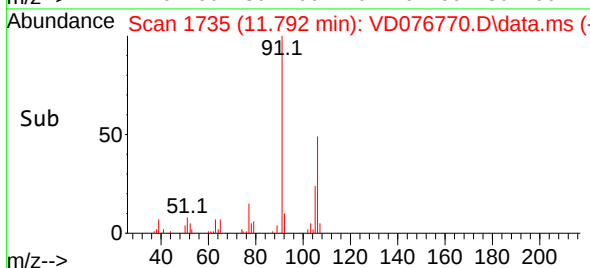
Reviewed By :John Carlone 07/19/2023
Supervised By :Mahesh Dadoda 07/19/2023

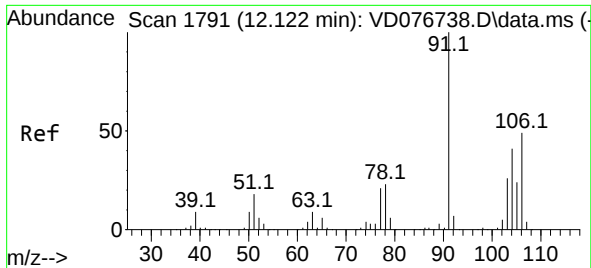


#68
m/p-Xylenes
Concen: 4.195 ug/l
RT: 11.792 min Scan# 1735
Delta R.T. -0.001 min
Lab File: VD076770.D
Acq: 18 Jul 2023 11:32



Tgt Ion:106 Resp: 15955
Ion Ratio Lower Upper
106 100
91 204.0 147.0 220.6





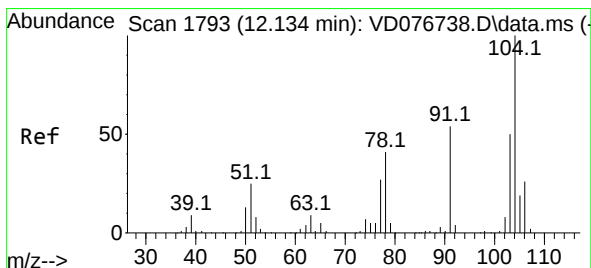
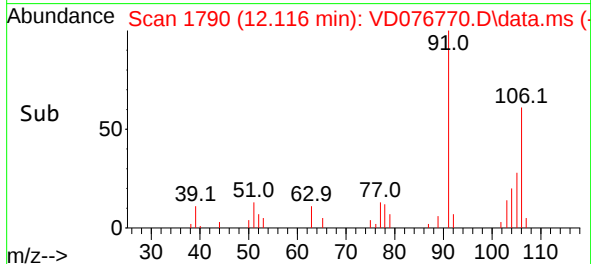
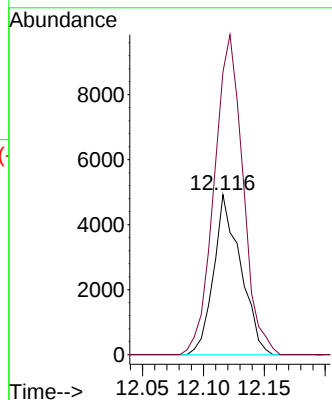
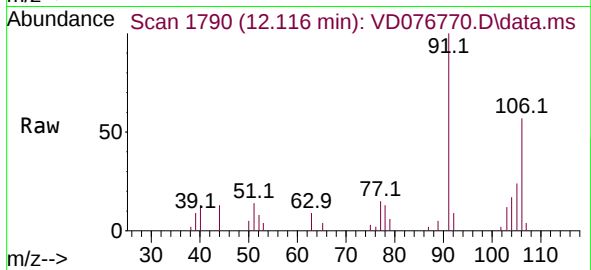
#69
o-Xylene
Concen: 2.060 ug/l
RT: 12.116 min Scan# 1790
Delta R.T. -0.006 min
Lab File: VD076770.D
Acq: 18 Jul 2023 11:32

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2023

Tgt Ion:106 Resp: 7570
Ion Ratio Lower Upper
106 100
91 213.9 97.9 293.6

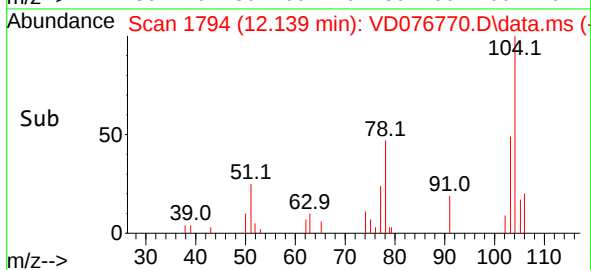
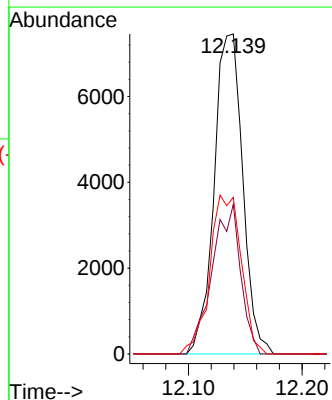
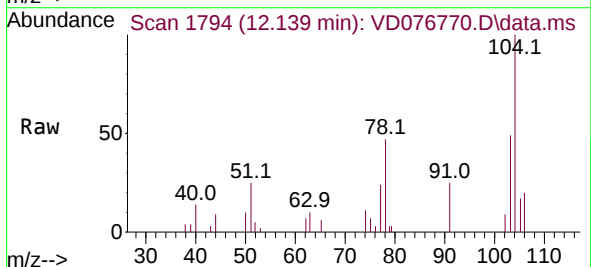
Manual Integrations
APPROVED

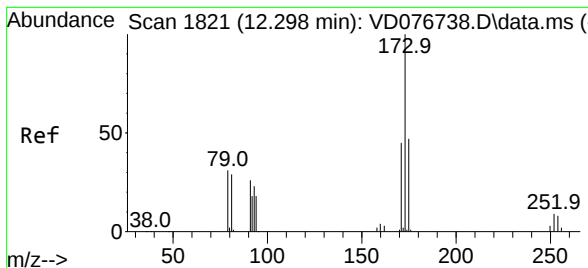
Reviewed By :John Carlone 07/19/2023
Supervised By :Mahesh Dadoda 07/19/2023



#70
Styrene
Concen: 2.025 ug/l
RT: 12.139 min Scan# 1794
Delta R.T. 0.005 min
Lab File: VD076770.D
Acq: 18 Jul 2023 11:32

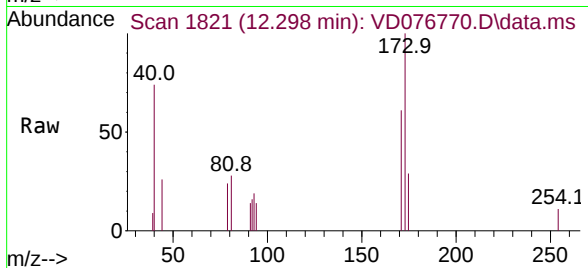
Tgt Ion:104 Resp: 13040
Ion Ratio Lower Upper
104 100
78 46.5 33.2 49.8
103 54.4 43.6 65.4





#71
Bromoform
Concen: 2.658 ug/l
RT: 12.298 min Scan# 1821
Delta R.T. 0.000 min
Lab File: VD076770.D
Acq: 18 Jul 2023 11:32

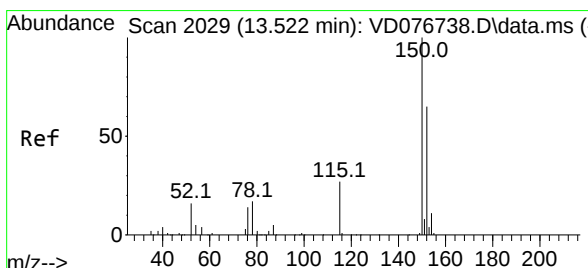
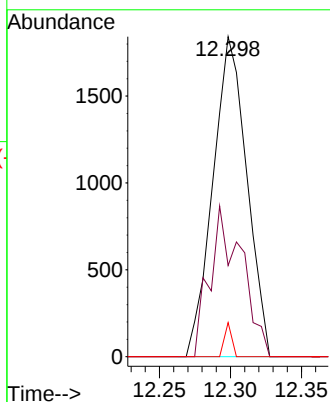
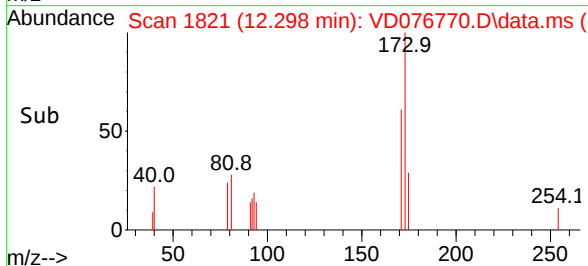
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2023



Tgt Ion:173 Resp: 3050
Ion Ratio Lower Upper
173 100
175 44.5 24.6 73.8
254 2.3 0.0 0.0

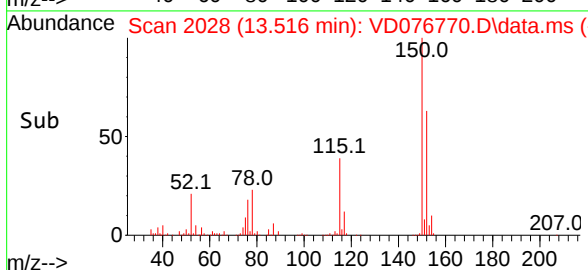
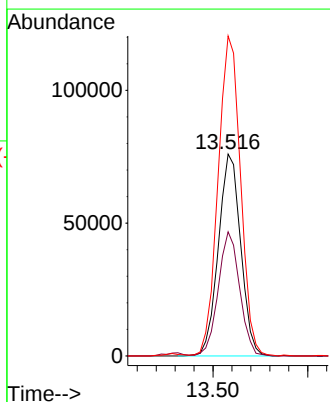
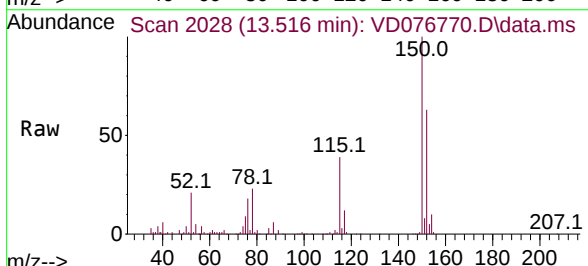
Manual Integrations
APPROVED

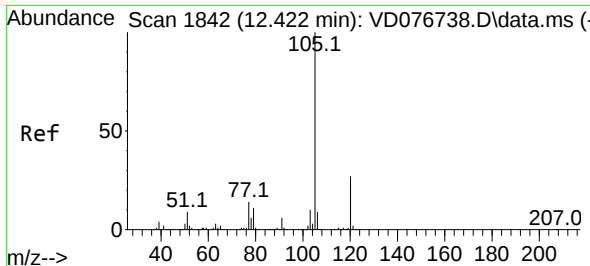
Reviewed By :John Carlone 07/19/2023
Supervised By :Mahesh Dadoda 07/19/2023



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.516 min Scan# 2028
Delta R.T. -0.006 min
Lab File: VD076770.D
Acq: 18 Jul 2023 11:32

Tgt Ion:152 Resp: 124462
Ion Ratio Lower Upper
152 100
115 59.0 27.1 81.3
150 159.5 0.0 353.6





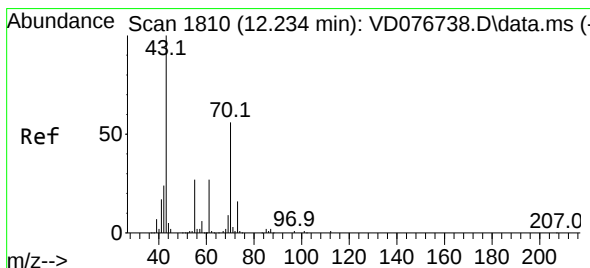
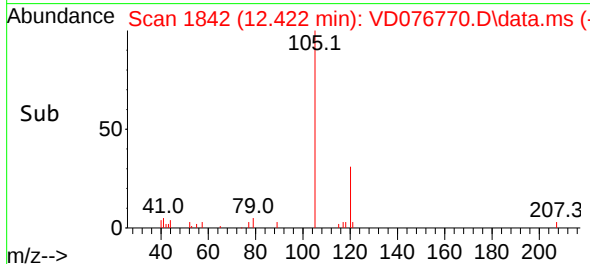
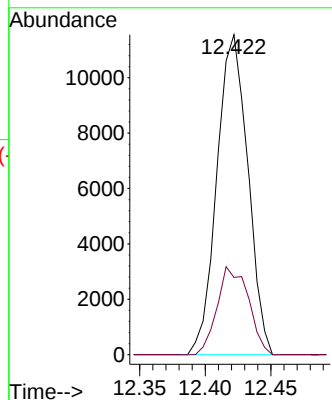
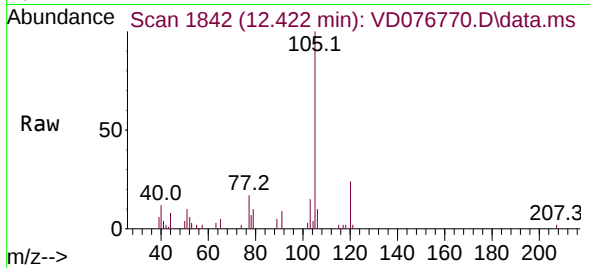
#73
Isopropylbenzene
Concen: 2.101 ug/l
RT: 12.422 min Scan# 1842
Delta R.T. -0.000 min
Lab File: VD076770.D
Acq: 18 Jul 2023 11:32

Instrument : MSVOA_D
ClientSampleId : MDL-SOIL-03-QT3-2023

Tgt Ion:105 Resp: 1896
Ion Ratio Lower Upper
105 100
120 27.7 14.3 42.9

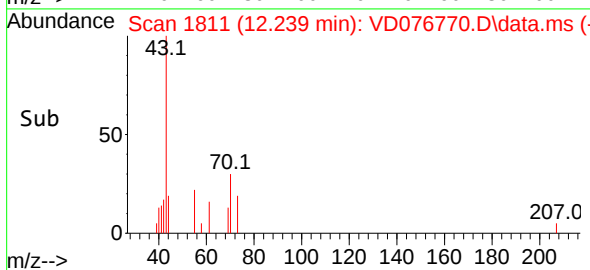
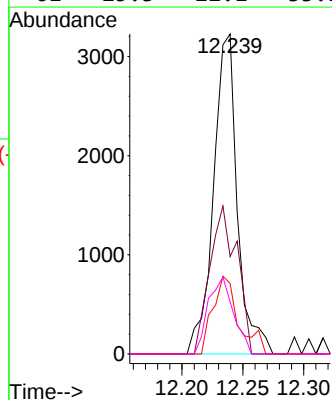
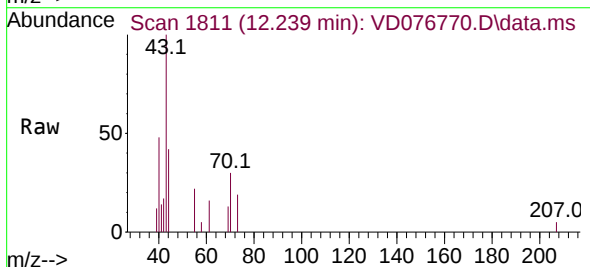
Manual Integrations
APPROVED

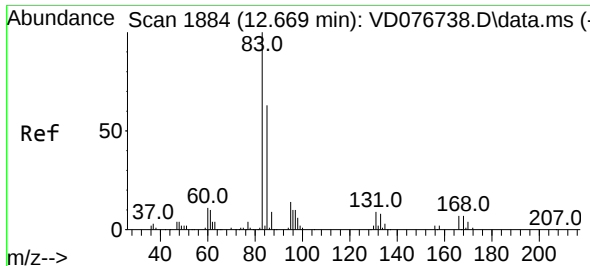
Reviewed By :John Carlone 07/19/2023
Supervised By :Mahesh Dadoda 07/19/2023



#74
N-ethyl acetate
Concen: 2.318 ug/l
RT: 12.239 min Scan# 1811
Delta R.T. 0.005 min
Lab File: VD076770.D
Acq: 18 Jul 2023 11:32

Tgt Ion: 43 Resp: 4410
Ion Ratio Lower Upper
43 100
70 52.5 45.0 67.4
55 26.1 23.8 35.6
61 25.3 22.1 33.1





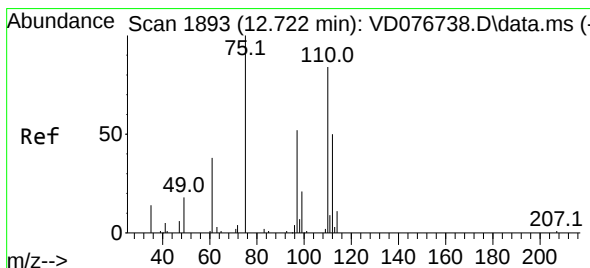
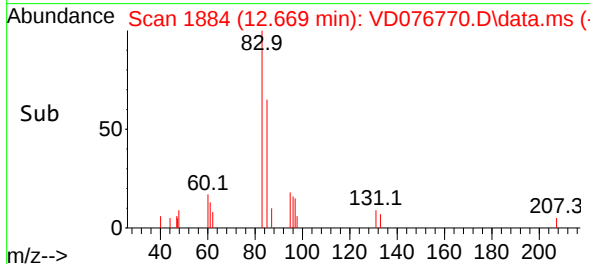
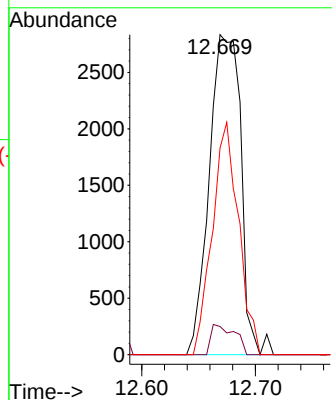
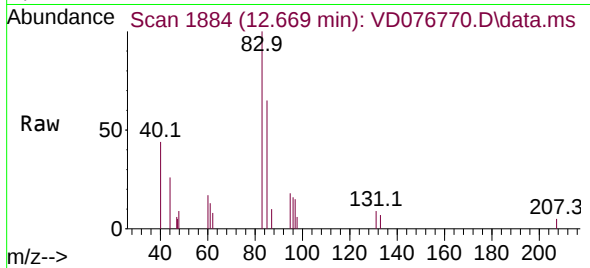
#75
1,1,2,2-Tetrachloroethane
Concen: 2.825 ug/l
RT: 12.669 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VD076770.D
Acq: 18 Jul 2023 11:32

Instrument : MSVOA_D
ClientSampleId : MDL-SOIL-03-QT3-2023

Tgt Ion: 83 Resp: 547
Ion Ratio Lower Upper
83 100
131 7.1 5.1 15.3
85 60.4 32.6 97.8

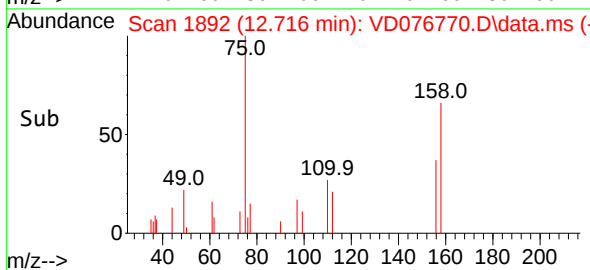
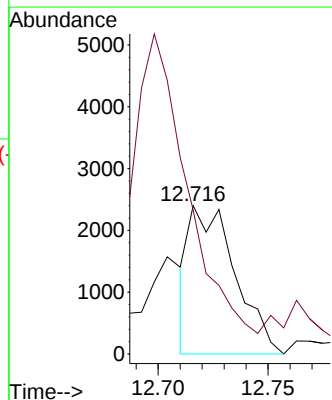
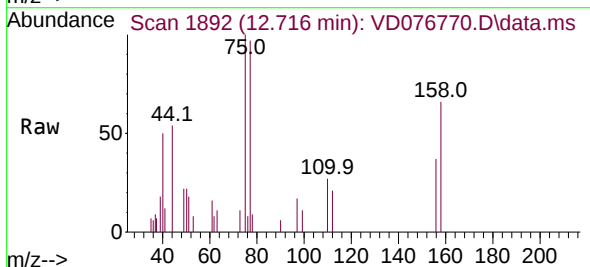
Manual Integrations
APPROVED

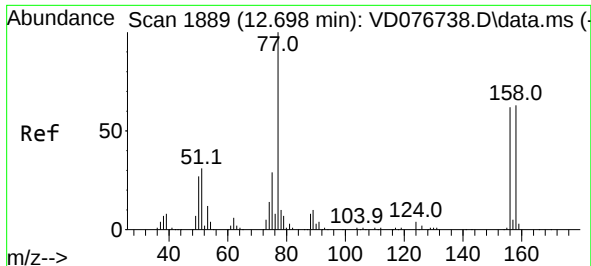
Reviewed By :John Carlone 07/19/2023
Supervised By :Mahesh Dadoda 07/19/2023



#76
1,2,3-Trichloropropane
Concen: 2.949 ug/l m
RT: 12.716 min Scan# 1892
Delta R.T. -0.006 min
Lab File: VD076770.D
Acq: 18 Jul 2023 11:32

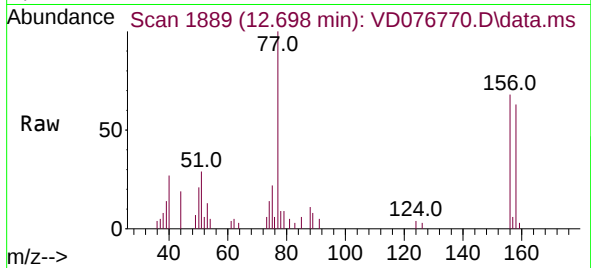
Tgt Ion: 75 Resp: 3490
Ion Ratio Lower Upper
75 100
77 276.7 0.0 0.0#





#77
Bromobenzene
Concen: 2.595 ug/l
RT: 12.698 min Scan# 1889
Delta R.T. 0.000 min
Lab File: VD076770.D
Acq: 18 Jul 2023 11:32

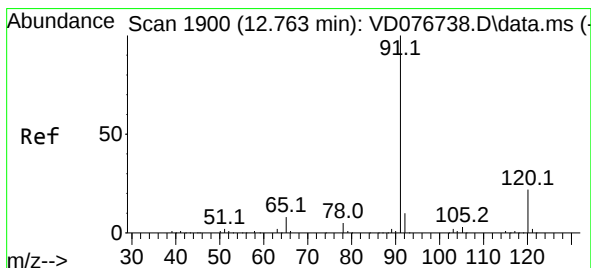
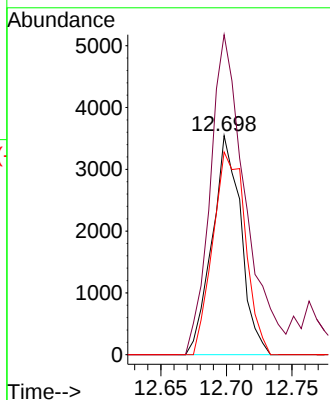
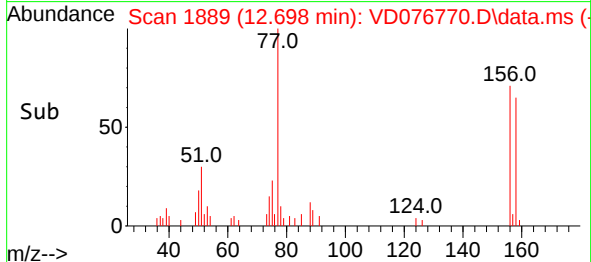
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2023



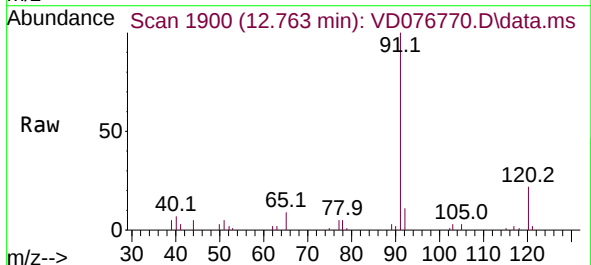
Tgt Ion:156 Resp: 5408
Ion Ratio Lower Upper
156 100
77 178.6 76.8 230.4
158 104.4 48.6 145.9

Manual Integrations
APPROVED

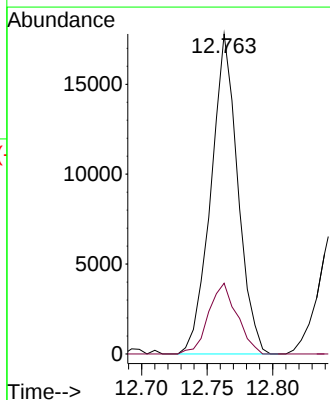
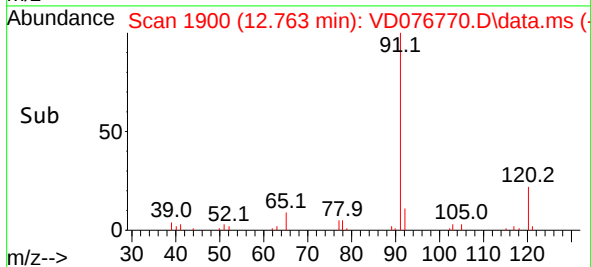
Reviewed By :John Carlone 07/19/2023
Supervised By :Mahesh Dadoda 07/19/2023

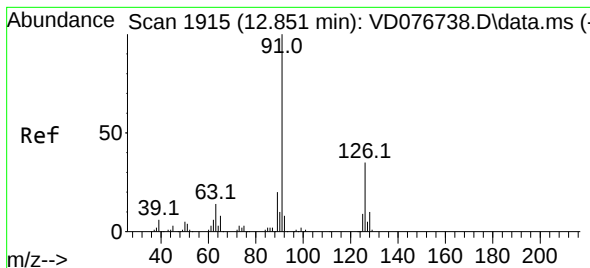


#78
n-propylbenzene
Concen: 2.318 ug/l
RT: 12.763 min Scan# 1900
Delta R.T. -0.000 min
Lab File: VD076770.D
Acq: 18 Jul 2023 11:32



Tgt Ion: 91 Resp: 25374
Ion Ratio Lower Upper
91 100
120 23.4 12.4 37.2





#79

2-Chlorotoluene

Concen: 2.302 ug/l

RT: 12.845 min Scan# 1915

Delta R.T. -0.006 min

Lab File: VD076770.D

Acq: 18 Jul 2023 11:32

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT3-2023

Tgt Ion: 91 Resp: 1381

Ion Ratio Lower Upper

91 100

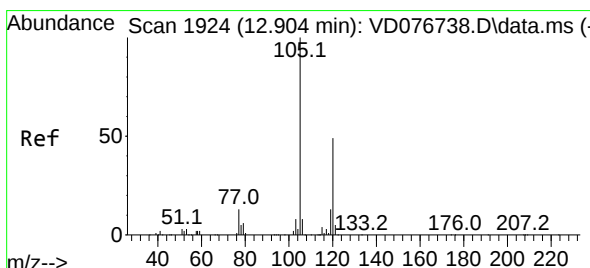
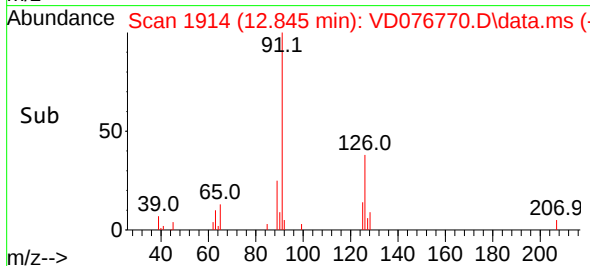
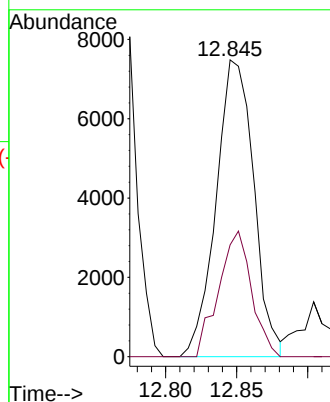
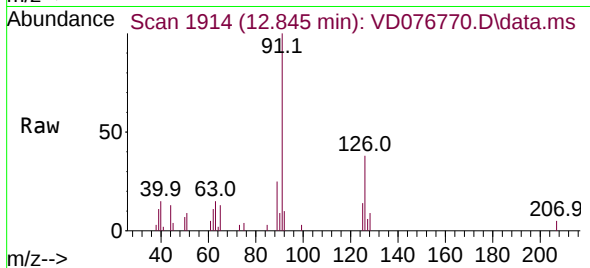
126 36.9 19.4 58.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/19/2023

Supervised By :Mahesh Dadoda 07/19/2023



#80

1,3,5-Trimethylbenzene

Concen: 2.190 ug/l

RT: 12.904 min Scan# 1924

Delta R.T. 0.000 min

Lab File: VD076770.D

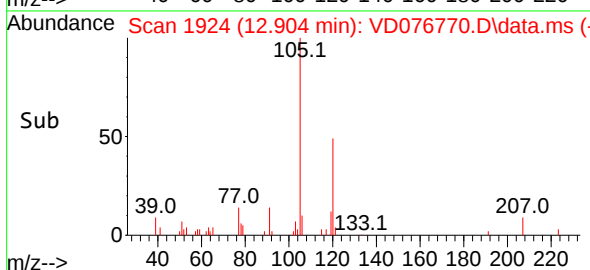
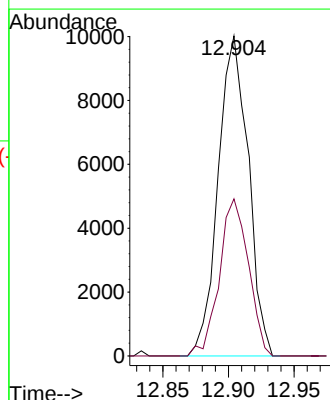
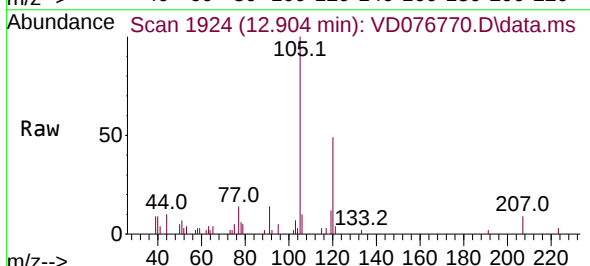
Acq: 18 Jul 2023 11:32

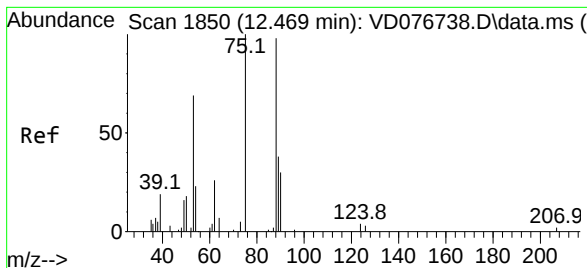
Tgt Ion:105 Resp: 15987

Ion Ratio Lower Upper

105 100

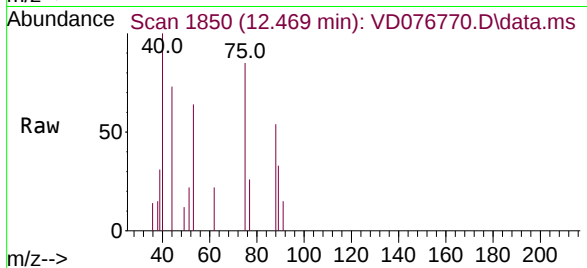
120 47.5 26.4 79.2





#81
trans-1,4-Dichloro-2-butene
Concen: 2.832 ug/l
RT: 12.469 min Scan# 1850
Delta R.T. -0.000 min
Lab File: VD076770.D
Acq: 18 Jul 2023 11:32

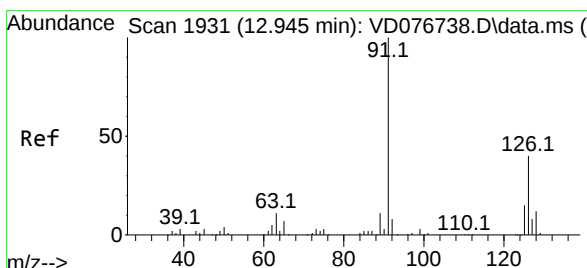
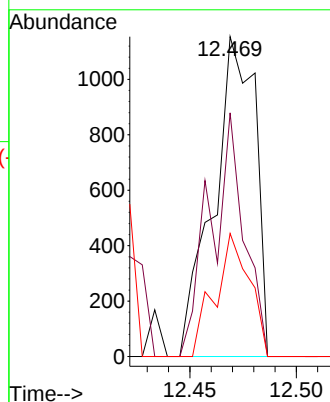
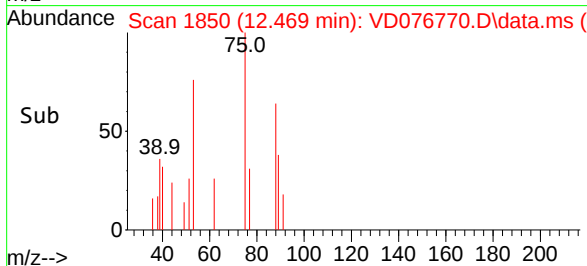
Instrument : MSVOA_D
ClientSampleId : MDL-SOIL-03-QT3-2023



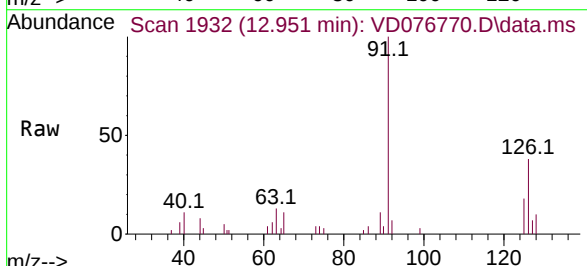
Tgt Ion: 75 Resp: 1579
Ion Ratio Lower Upper
75 100
53 61.7 63.0 94.4
89 31.8 37.9 56.9

Manual Integrations
APPROVED

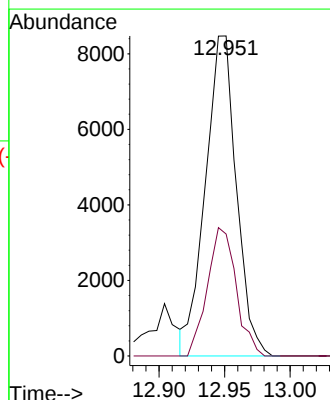
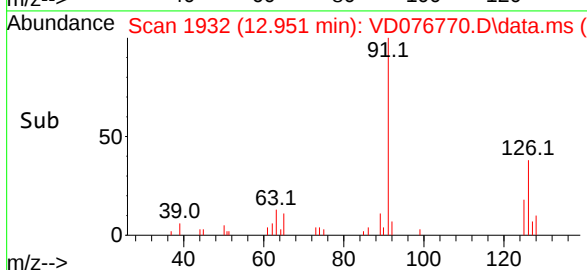
Reviewed By :John Carlone 07/19/2023
Supervised By :Mahesh Dadoda 07/19/2023

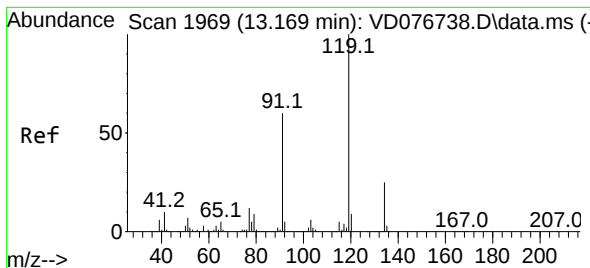


#82
4-Chlorotoluene
Concen: 2.223 ug/l
RT: 12.951 min Scan# 1932
Delta R.T. 0.006 min
Lab File: VD076770.D
Acq: 18 Jul 2023 11:32



Tgt Ion: 91 Resp: 13939
Ion Ratio Lower Upper
91 100
126 37.2 19.4 58.4





#83

tert-Butylbenzene

Concen: 2.225 ug/l

RT: 13.163 min Scan# 1969

Delta R.T. -0.006 min

Lab File: VD076770.D

Acq: 18 Jul 2023 11:32

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT3-2023

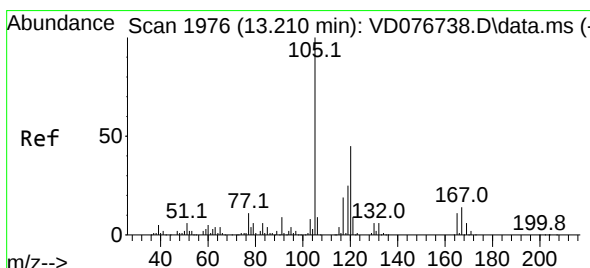
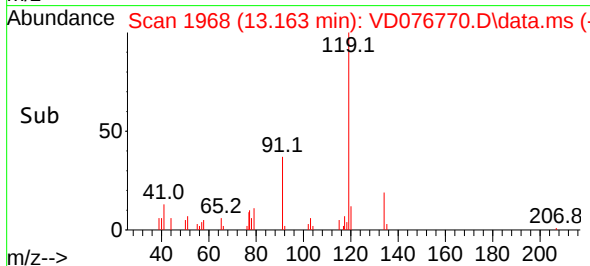
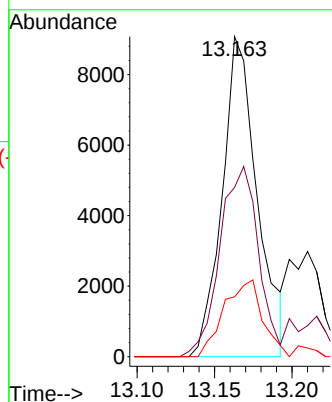
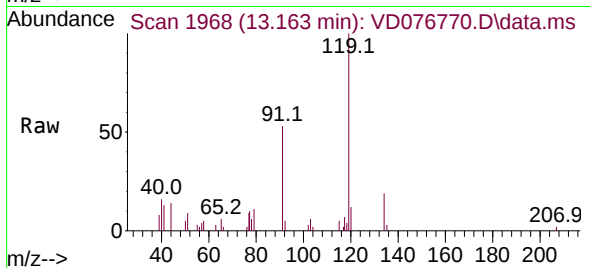
Tgt Ion:	119	Resp:	1430
Ion Ratio	Lower	Upper	
119	100		
91	65.2	29.3	87.8
134	26.3	14.1	42.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/19/2023

Supervised By :Mahesh Dadoda 07/19/2023



#84

1,2,4-Trimethylbenzene

Concen: 2.109 ug/l

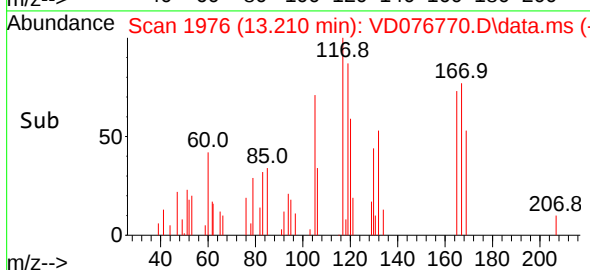
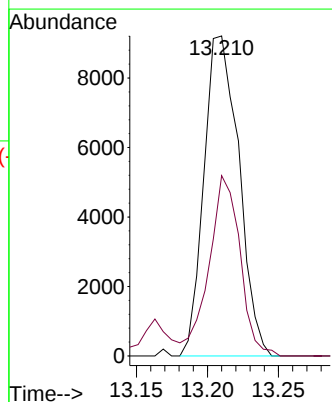
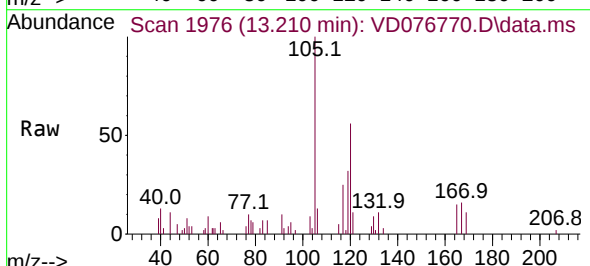
RT: 13.210 min Scan# 1976

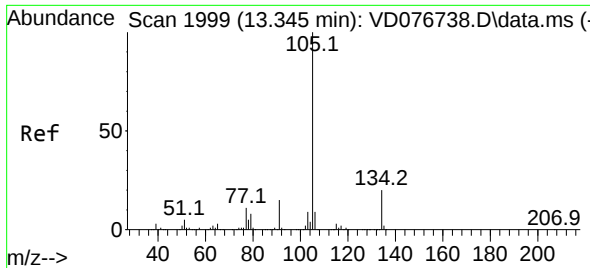
Delta R.T. -0.000 min

Lab File: VD076770.D

Acq: 18 Jul 2023 11:32

Tgt Ion:	105	Resp:	15735
Ion Ratio	Lower	Upper	
105	100		
120	50.1	24.3	72.9





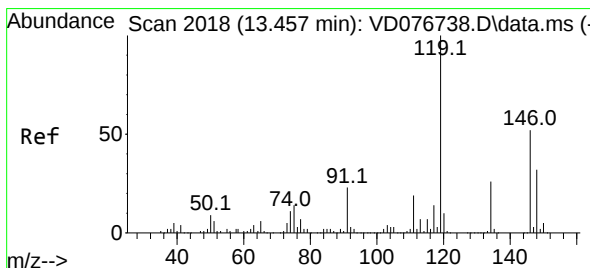
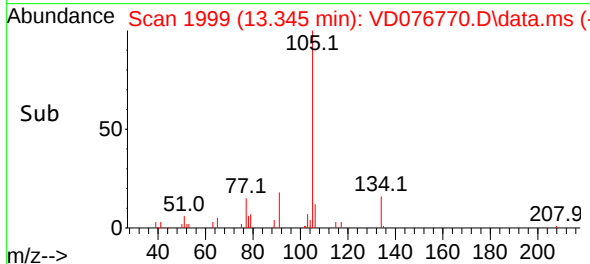
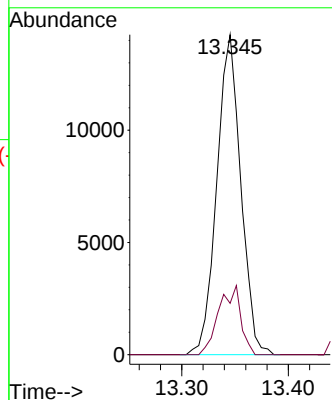
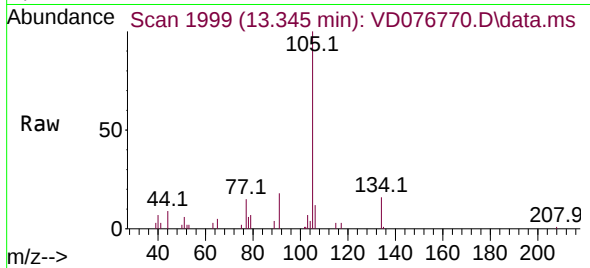
#85
 sec-Butylbenzene
 Concen: 2.266 ug/l
 RT: 13.345 min Scan# 1999
 Delta R.T. 0.000 min
 Lab File: VD076770.D
 Acq: 18 Jul 2023 11:32

Instrument : MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT3-2023

Tgt Ion:105 Resp: 2225
 Ion Ratio Lower Upper
 105 100
 134 19.8 10.9 32.9

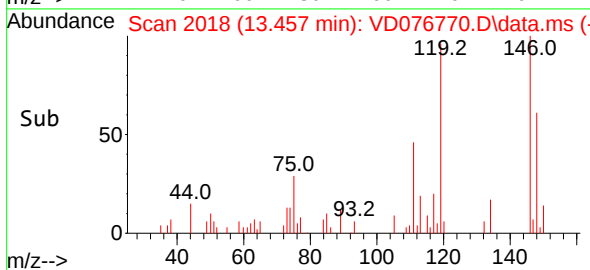
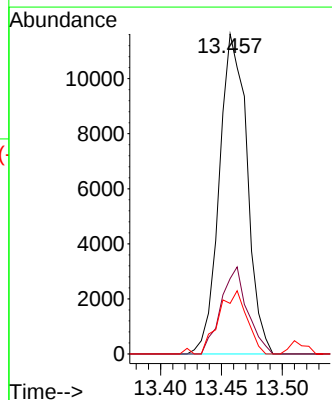
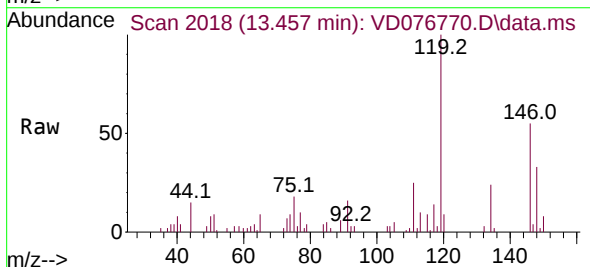
Manual Integrations
 APPROVED

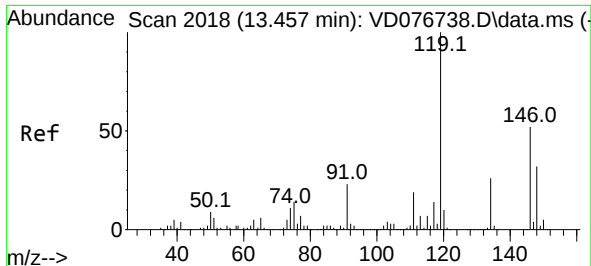
Reviewed By :John Carlone 07/19/2023
 Supervised By :Mahesh Dadoda 07/19/2023



#86
 p-Isopropyltoluene
 Concen: 2.270 ug/l
 RT: 13.457 min Scan# 2018
 Delta R.T. 0.000 min
 Lab File: VD076770.D
 Acq: 18 Jul 2023 11:32

Tgt Ion:119 Resp: 18411
 Ion Ratio Lower Upper
 119 100
 134 25.9 14.2 42.6
 91 20.4 10.5 31.5





#87

1,3-Dichlorobenzene

Concen: 2.393 ug/l

RT: 13.457 min Scan# 2018

Delta R.T. 0.000 min

Lab File: VD076770.D

Acq: 18 Jul 2023 11:32

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT3-2023

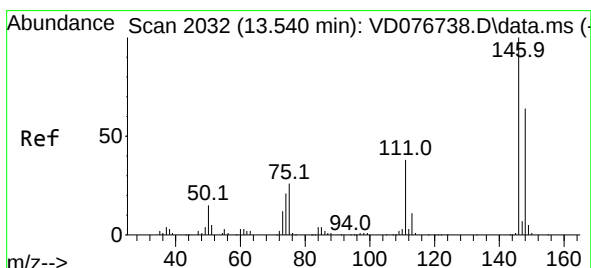
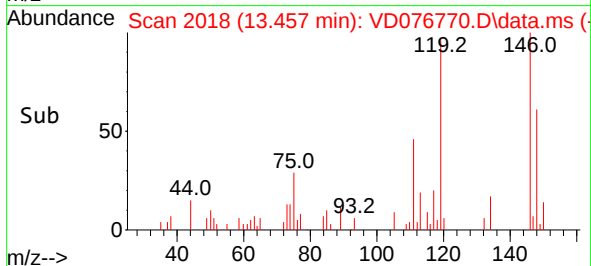
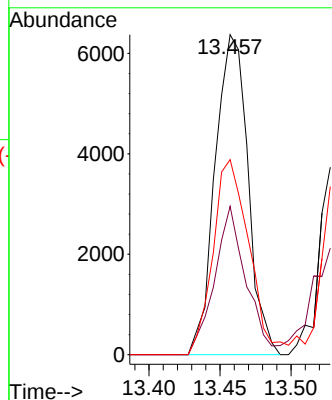
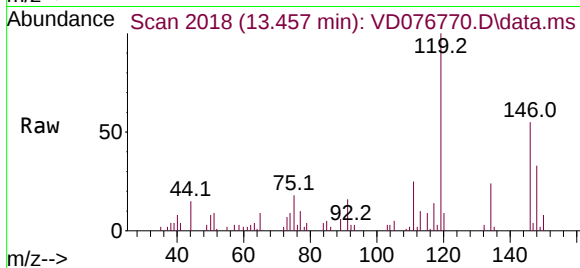
Tgt Ion:146 Resp: 1025
 Ion Ratio Lower Upper
 146 100
 111 44.0 17.9 53.8
 148 66.9 32.3 96.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/19/2023

Supervised By :Mahesh Dadoda 07/19/2023



#88

1,4-Dichlorobenzene

Concen: 2.696 ug/l

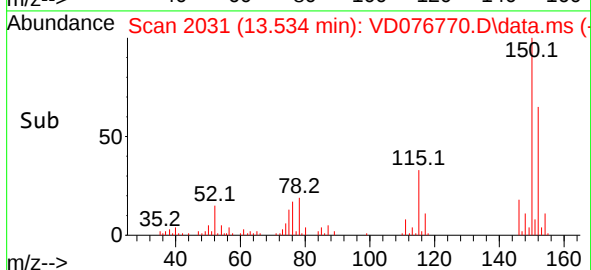
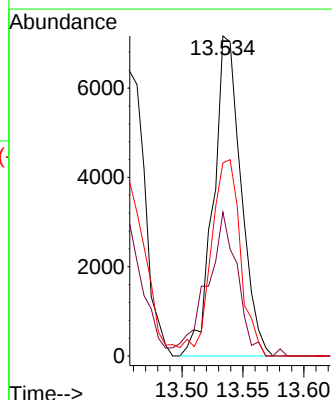
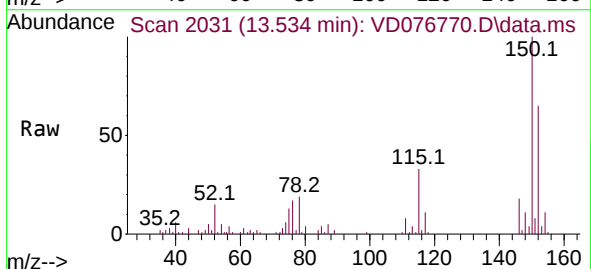
RT: 13.534 min Scan# 2031

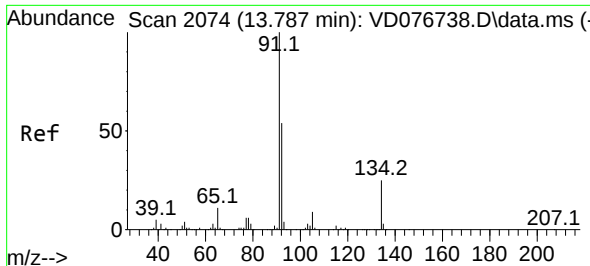
Delta R.T. -0.006 min

Lab File: VD076770.D

Acq: 18 Jul 2023 11:32

Tgt Ion:146 Resp: 11325
 Ion Ratio Lower Upper
 146 100
 111 49.0 17.4 52.3
 148 64.7 31.7 95.1





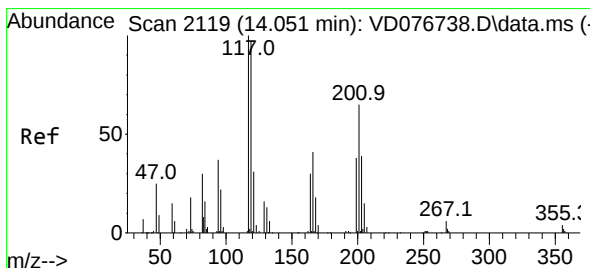
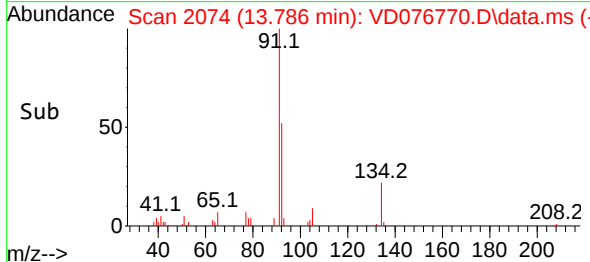
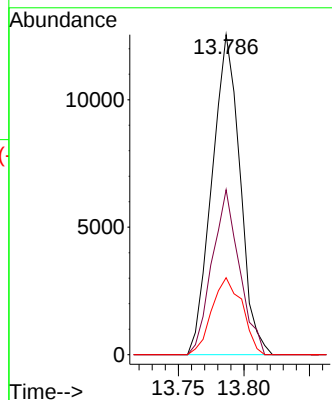
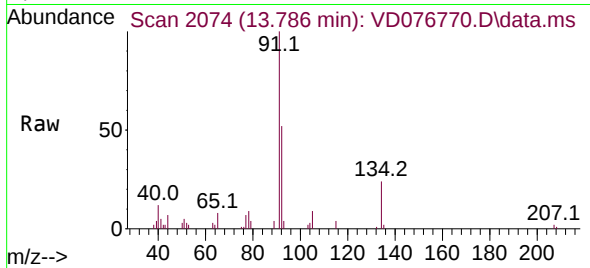
#89
n-Butylbenzene
Concen: 2.347 ug/l
RT: 13.786 min Scan# 2074
Delta R.T. -0.001 min
Lab File: VD076770.D
Acq: 18 Jul 2023 11:32

Instrument : MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT3-2023

Tgt Ion: 91 Resp: 1863
Ion Ratio Lower Upper
91 100
92 50.4 26.5 79.5
134 26.1 13.8 41.3

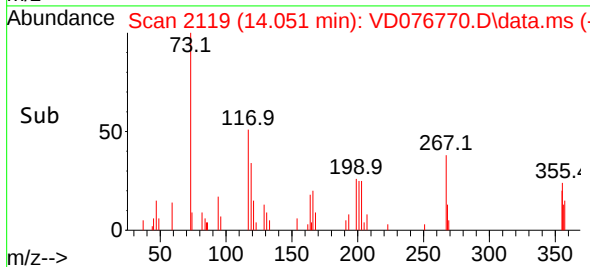
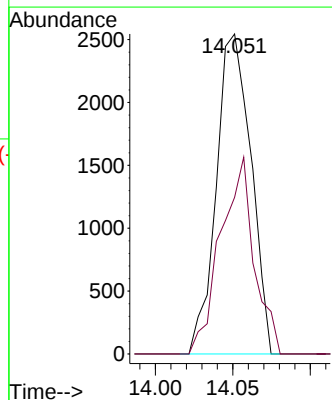
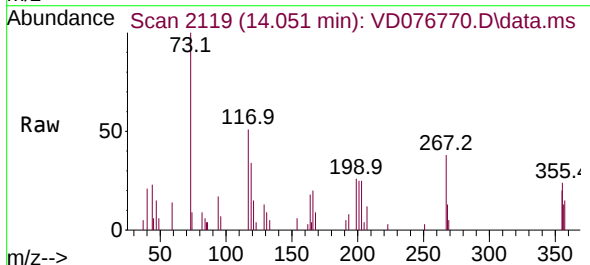
Manual Integrations
APPROVED

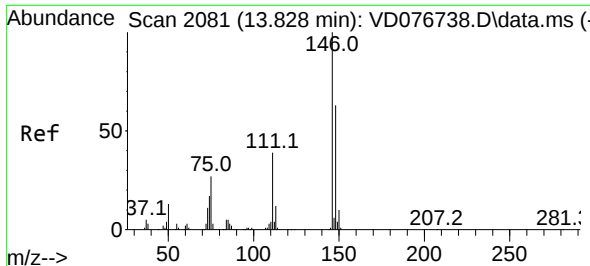
Reviewed By :John Carlone 07/19/2023
Supervised By :Mahesh Dadoda 07/19/2023



#90
Hexachloroethane
Concen: 2.637 ug/l
RT: 14.051 min Scan# 2119
Delta R.T. 0.000 min
Lab File: VD076770.D
Acq: 18 Jul 2023 11:32

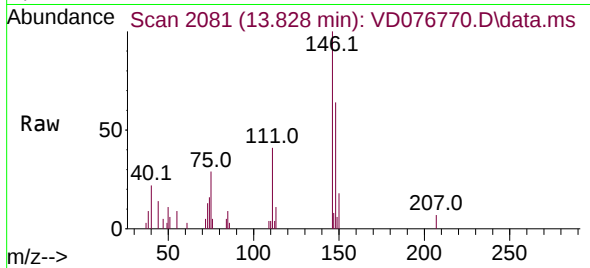
Tgt Ion:117 Resp: 3954
Ion Ratio Lower Upper
117 100
201 59.5 38.5 115.5





#91
1,2-Dichlorobenzene
Concen: 2.444 ug/l
RT: 13.828 min Scan# 2081
Delta R.T. -0.000 min
Lab File: VD076770.D
Acq: 18 Jul 2023 11:32

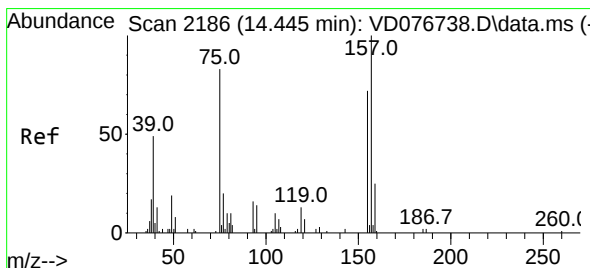
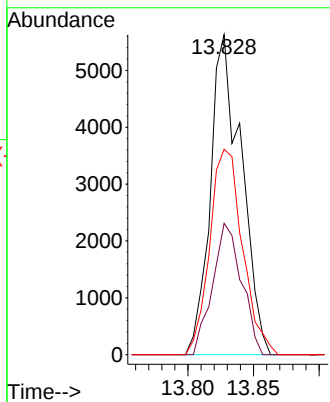
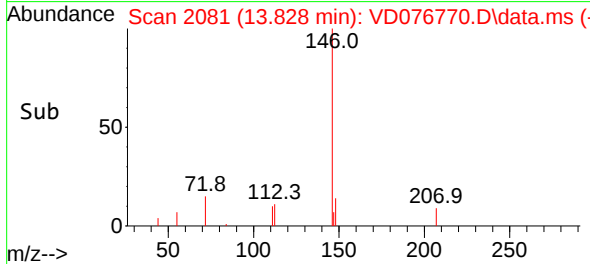
Instrument : MSVOA_D
ClientSampleId : MDL-SOIL-03-QT3-2023



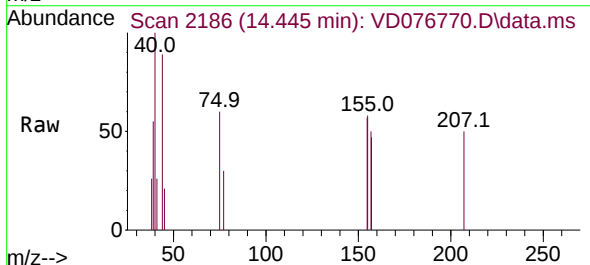
Tgt Ion:146 Resp: 923
Ion Ratio Lower Upper
146 100
111 38.6 18.3 54.8
148 68.1 31.6 94.7

Manual Integrations
APPROVED

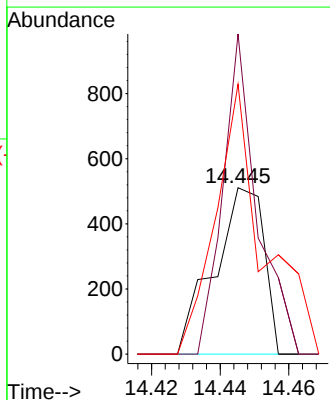
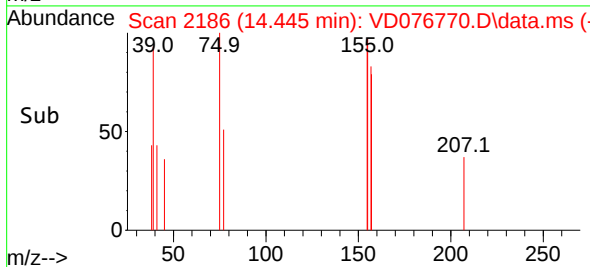
Reviewed By :John Carlone 07/19/2023
Supervised By :Mahesh Dadoda 07/19/2023

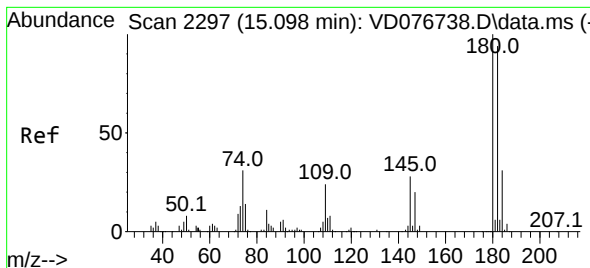


#92
1,2-Dibromo-3-Chloropropane
Concen: 1.867 ug/l m
RT: 14.445 min Scan# 2186
Delta R.T. 0.000 min
Lab File: VD076770.D
Acq: 18 Jul 2023 11:32



Tgt Ion: 75 Resp: 516
Ion Ratio Lower Upper
75 100
155 132.0 47.9 143.8
157 154.7 59.9 179.7





#93

1,2,4-Trichlorobenzene

Concen: 2.457 ug/l

RT: 15.092 min Scan# 21

Delta R.T. -0.006 min

Lab File: VD076770.D

Acq: 18 Jul 2023 11:32

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT3-2023

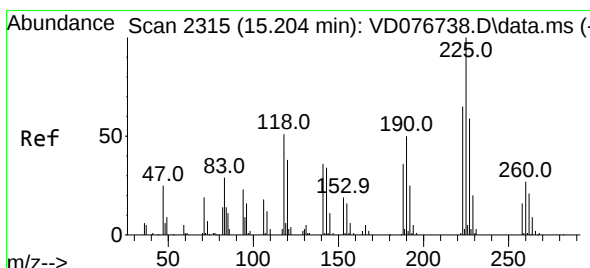
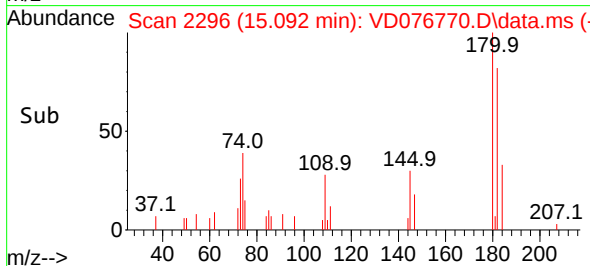
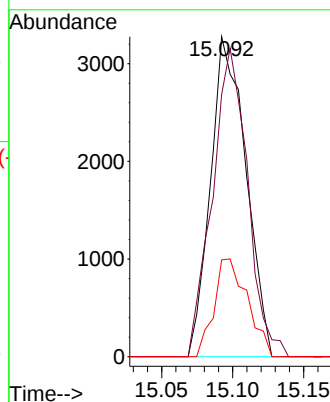
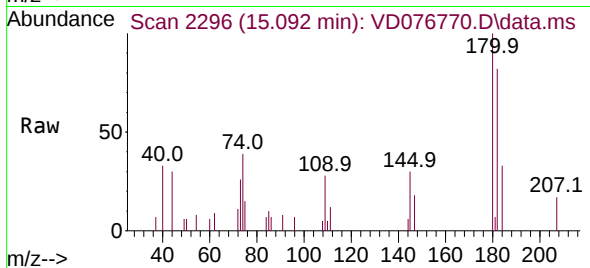
Tgt Ion:180	Resp:	566
Ion Ratio	Lower	Upper
180	100	
182	96.3	48.5 145.6
145	28.8	14.2 42.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/19/2023

Supervised By :Mahesh Dadoda 07/19/2023



#94

Hexachlorobutadiene

Concen: 2.687 ug/l

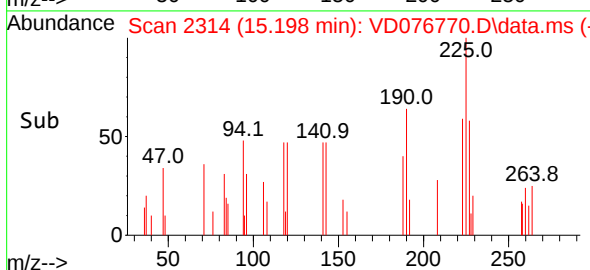
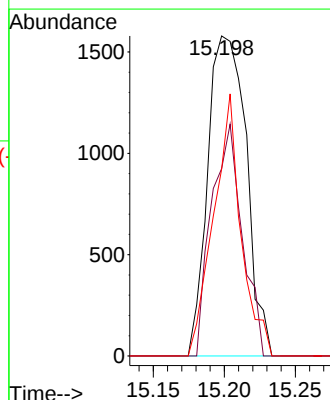
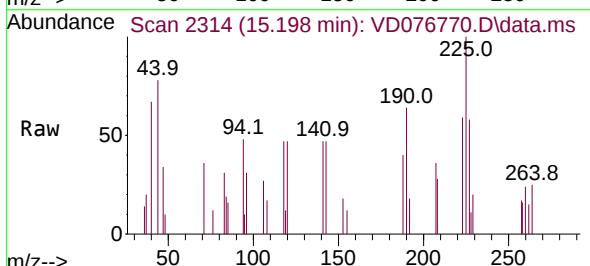
RT: 15.198 min Scan# 2314

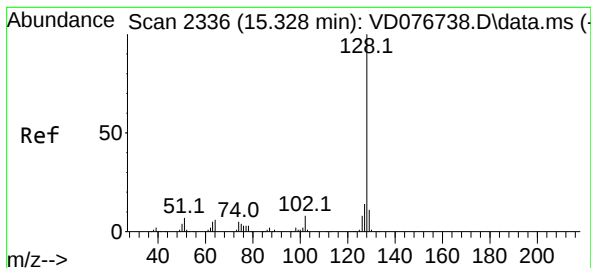
Delta R.T. -0.006 min

Lab File: VD076770.D

Acq: 18 Jul 2023 11:32

Tgt Ion:225	Resp:	2980
Ion Ratio	Lower	Upper
225	100	
223	57.9	31.6 94.8
227	58.2	31.7 95.1





#95

Naphthalene

Concen: 2.544 ug/l

RT: 15.333 min Scan# 2337

Delta R.T. 0.005 min

Lab File: VD076770.D

Acq: 18 Jul 2023 11:32

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT3-2023

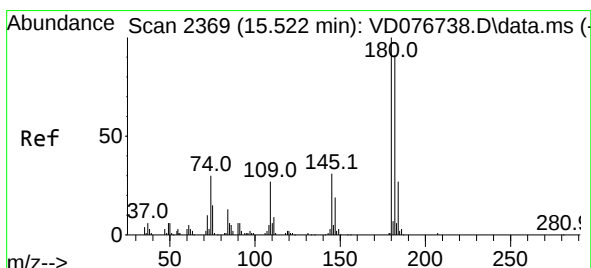
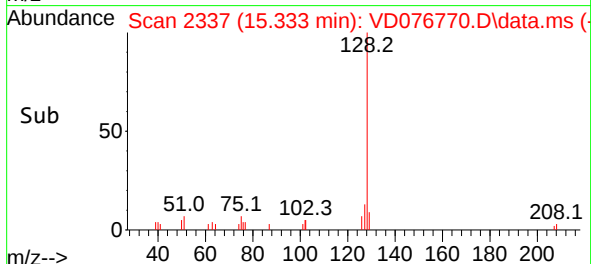
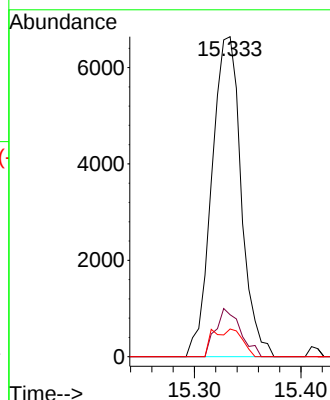
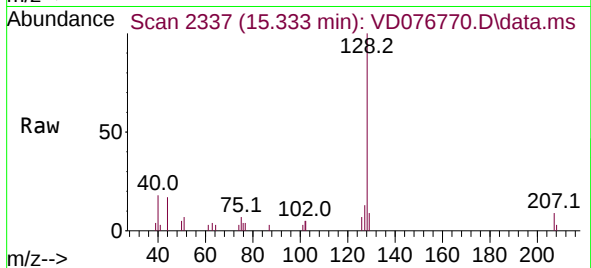
Tgt Ion:	128	Resp:	12700
Ion Ratio	Lower	Upper	
128	100		
127	13.1	10.5	15.7
129	8.7	8.7	13.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/19/2023

Supervised By :Mahesh Dadoda 07/19/2023



#96

1,2,3-Trichlorobenzene

Concen: 2.537 ug/l

RT: 15.522 min Scan# 2369

Delta R.T. -0.000 min

Lab File: VD076770.D

Acq: 18 Jul 2023 11:32

Tgt Ion:	180	Resp:	5250
Ion Ratio	Lower	Upper	
180	100		
182	101.7	47.3	141.9
145	40.1	15.1	45.3

