

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD103023\
 Data File : VD077449.D
 Acq On : 30 Oct 2023 16:00
 Operator : JC/SY
 Sample : 04699-01 4.0ppb
 Misc : 5.00G/5.0ml/MSVOA_D/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2023

Quant Time: Oct 31 04:28:33 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D103023S.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 31 04:19:17 2023
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/31/2023
 Supervised By : Mahesh Dadoda 10/31/2023

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

Internal Standards						
1) Pentafluorobenzene	7.875	168	317242	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.775	114	547120	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	480701	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.522	152	220513	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.228	65	205468	45.802	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	91.600%		
35) Dibromofluoromethane	7.805	113	180135	47.636	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	95.280%		
50) Toluene-d8	10.269	98	701132	47.734	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	95.460%		
62) 4-Bromofluorobenzene	12.575	95	230597	46.613	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	93.220%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.934	85	11554	4.517	ug/l	97
3) Chloromethane	2.146	50	15713	3.869	ug/l	97
4) Vinyl Chloride	2.281	62	16326	4.122	ug/l	94
5) Bromomethane	2.693	94	9844	4.744	ug/l	98
6) Chloroethane	2.840	64	10443	3.917	ug/l	94
7) Trichlorofluoromethane	3.175	101	22057	3.977	ug/l	91
8) Diethyl Ether	3.587	74	7768	3.897	ug/l #	42
9) 1,1,2-Trichlorotrifluo...	3.964	101	13444	4.015	ug/l #	89
10) Methyl Iodide	4.164	142	12178	5.847	ug/l #	90
11) Tert butyl alcohol	5.052	59	8792	24.742	ug/l #	77
12) 1,1-Dichloroethene	3.940	96	11904	3.756	ug/l #	80
13) Acrolein	3.793	56	11028	23.534	ug/l	96
14) Allyl chloride	4.569	41	28062	3.670	ug/l #	81
15) Acrylonitrile	5.263	53	20151	18.699	ug/l	96
16) Acetone	4.022	43	23818	20.065	ug/l #	78
17) Carbon Disulfide	4.275	76	25513	6.170	ug/l	97
18) Methyl Acetate	4.569	43	15824	3.655	ug/l #	83
19) Methyl tert-butyl Ether	5.311	73	37627	3.782	ug/l	93
20) Methylene Chloride	4.799	84	79439	16.165	ug/l #	66
21) trans-1,2-Dichloroethene	5.311	96	13590	3.681	ug/l #	84
22) Diisopropyl ether	6.216	45	59935	3.688	ug/l #	85
23) Vinyl Acetate	6.158	43	125646m	17.921	ug/l	
24) 1,1-Dichloroethane	6.111	63	32495	3.853	ug/l	91
25) 2-Butanone	7.087	43	31867	20.127	ug/l #	70
26) 2,2-Dichloropropane	7.075	77	32411	4.337	ug/l	87
27) cis-1,2-Dichloroethene	7.087	96	17827	3.898	ug/l	64
28) Bromochloromethane	7.428	49	12260	5.178	ug/l #	53
29) Tetrahydrofuran	7.446	42	16627	17.706	ug/l #	74
30) Chloroform	7.599	83	30141	3.828	ug/l	97
31) Cyclohexane	7.875	56	32732	4.668	ug/l #	73
32) 1,1,1-Trichloroethane	7.793	97	25571	3.942	ug/l #	93
36) 1,1-Dichloropropene	8.005	75	21642	3.860	ug/l	91
37) Ethyl Acetate	7.169	43	11311	3.515	ug/l #	66
38) Carbon Tetrachloride	7.993	117	21209	4.014	ug/l	90
39) Methylcyclohexane	9.269	83	24543	3.837	ug/l #	78
40) Benzene	8.252	78	61450	3.844	ug/l	97

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.399	41	8095	3.932	ug/l #	77
42) 1,2-Dichloroethane	8.328	62	20263	4.002	ug/l	94
43) Isopropyl Acetate	8.357	43	24889	3.748	ug/l #	84
44) Trichloroethene	9.028	130	14625	3.735	ug/l	89
45) 1,2-Dichloropropane	9.304	63	18296	3.887	ug/l	90
46) Dibromomethane	9.399	93	8365	3.693	ug/l #	85
47) Bromodichloromethane	9.581	83	23719	3.962	ug/l	98
48) Methyl methacrylate	9.381	41	11236	3.545	ug/l #	69
49) 1,4-Dioxane	9.381	88	1744	71.653	ug/l #	35
51) 4-Methyl-2-Pentanone	10.163	43	62867	19.236	ug/l #	80
52) Toluene	10.334	92	39743	4.078	ug/l	92
53) t-1,3-Dichloropropene	10.551	75	24104	3.802	ug/l	99
54) cis-1,3-Dichloropropene	10.016	75	28862	3.956	ug/l #	71
55) 1,1,2-Trichloroethane	10.734	97	11521	3.812	ug/l	91
56) Ethyl methacrylate	10.599	69	17600	3.917	ug/l #	68
57) 1,3-Dichloropropane	10.875	76	21617	3.827	ug/l	96
58) 2-Chloroethyl Vinyl ether	9.869	63	41524	18.460	ug/l #	83
59) 2-Hexanone	10.922	43	47626	19.781	ug/l	78
60) Dibromochloromethane	11.075	129	13872	3.817	ug/l	94
61) 1,2-Dibromoethane	11.181	107	10524	3.677	ug/l	97
64) Tetrachloroethene	10.810	164	11730	3.833	ug/l	96
65) Chlorobenzene	11.604	112	39155	3.888	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.675	131	14246	3.743	ug/l	96
67) Ethyl Benzene	11.687	91	79435	4.099	ug/l	94
68) m/p-Xylenes	11.793	106	54311	7.762	ug/l	80
69) o-Xylene	12.122	106	26832	4.003	ug/l	83
70) Styrene	12.134	104	45585	3.943	ug/l #	91
71) Bromoform	12.298	173	8021	3.802	ug/l #	96
73) Isopropylbenzene	12.422	105	72841	4.052	ug/l	95
74) N-amyl acetate	12.234	43	24306	3.817	ug/l #	82
75) 1,1,2,2-Tetrachloroethane	12.675	83	13716	3.892	ug/l	100
76) 1,2,3-Trichloropropane	12.728	75	10769m	4.013	ug/l	
77) Bromobenzene	12.698	156	15514	3.920	ug/l	66
78) n-propylbenzene	12.763	91	92042	4.032	ug/l	91
79) 2-Chlorotoluene	12.851	91	52282	4.045	ug/l	87
80) 1,3,5-Trimethylbenzene	12.904	105	59446	3.941	ug/l	93
81) trans-1,4-Dichloro-2-b...	12.475	75	5030	3.620	ug/l #	81
82) 4-Chlorotoluene	12.945	91	52888	3.928	ug/l	88
83) tert-Butylbenzene	13.163	119	51873	4.090	ug/l	87
84) 1,2,4-Trimethylbenzene	13.210	105	59877	3.996	ug/l	92
85) sec-Butylbenzene	13.345	105	79577	4.101	ug/l	94
86) p-Isopropyltoluene	13.463	119	62868	3.986	ug/l	92
87) 1,3-Dichlorobenzene	13.457	146	30954	3.979	ug/l	95
88) 1,4-Dichlorobenzene	13.534	146	30254	3.893	ug/l	88
89) n-Butylbenzene	13.787	91	69306	4.227	ug/l	97
90) Hexachloroethane	14.051	117	13060	4.046	ug/l	88
91) 1,2-Dichlorobenzene	13.834	146	26927	3.939	ug/l	95
92) 1,2-Dibromo-3-Chloropr...	14.445	75	2289	3.855	ug/l	79
93) 1,2,4-Trichlorobenzene	15.098	180	17019	3.624	ug/l	95
94) Hexachlorobutadiene	15.210	225	10938	4.318	ug/l	95
95) Naphthalene	15.334	128	35690	3.984	ug/l	98
96) 1,2,3-Trichlorobenzene	15.522	180	15630	3.856	ug/l	99

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Quant Title : SW846 8260
QLast Update : Tue Oct 31 04:19:17 2023
Response via : Initial Calibration

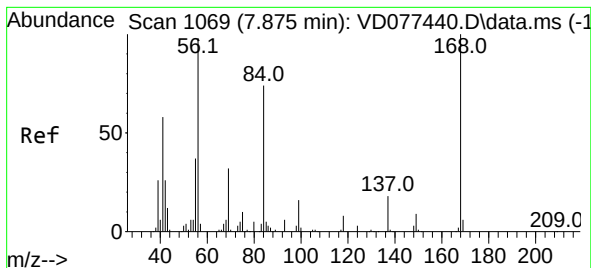
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Manual Integrations

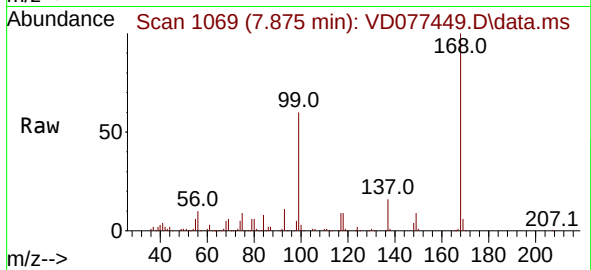
Reviewed By :John Carlone 10/31/2023
Supervised By :Mahesh Dadoda 10/31/2023

[illegible]



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.875 min Scan# 1069
Delta R.T. 0.000 min
Lab File: VD077449.D
Acq: 30 Oct 2023 16:00

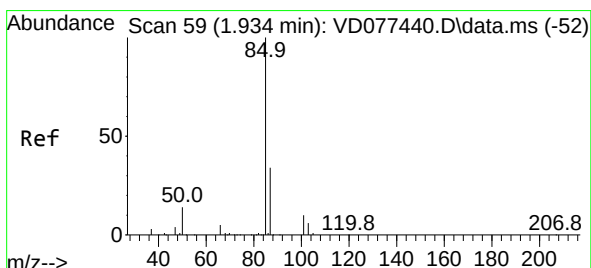
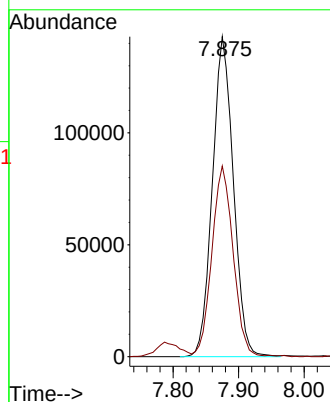
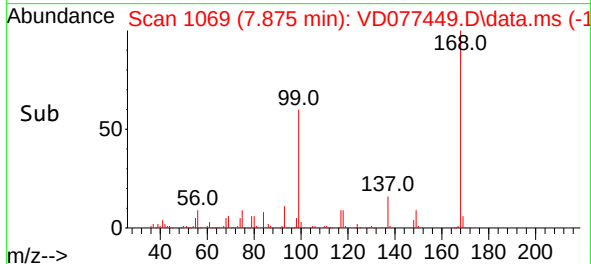
Instrument :
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Tgt Ion:168 Resp: 31724
Ion Ratio Lower Upper
168 100
99 59.3 36.7 55.1

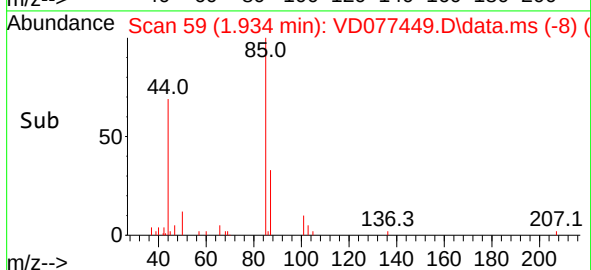
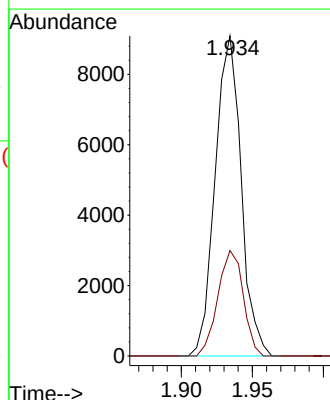
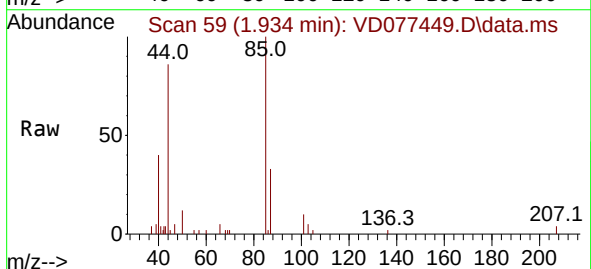
Manual Integrations
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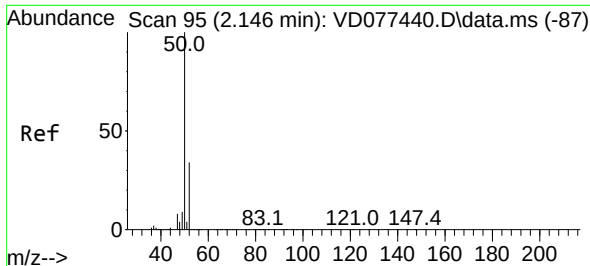
Reviewed By :John Carlone 10/31/2023
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#2
Dichlorodifluoromethane
Concen: 4.517 ug/l
RT: 1.934 min Scan# 59
Delta R.T. 0.000 min
Lab File: VD077449.D
Acq: 30 Oct 2023 16:00

Tgt Ion: 85 Resp: 11554
Ion Ratio Lower Upper
85 100
87 33.0 15.7 47.0





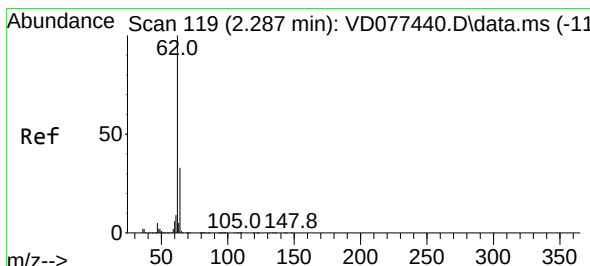
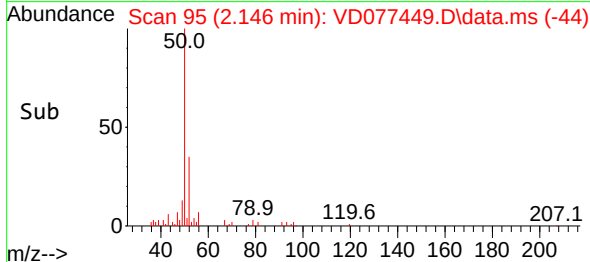
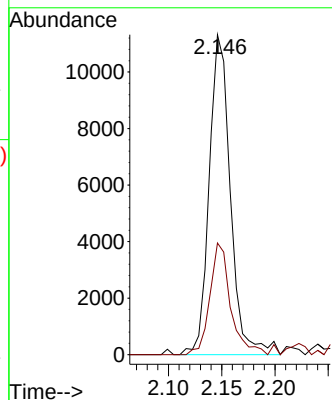
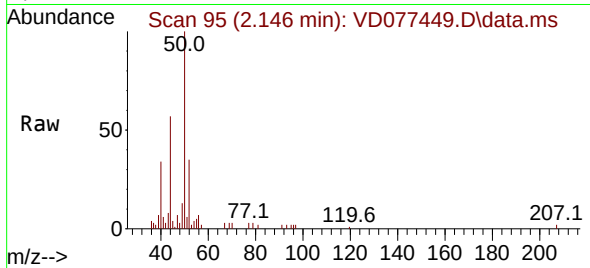
#3
Chloromethane
Concen: 3.869 ug/l
RT: 2.146 min Scan# 95
Delta R.T. 0.000 min
Lab File: VD077449.D
Acq: 30 Oct 2023 16:00

Instrument :
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ClientSampleId :
LOD-MDL-SOIL-01-QT4-2023

Tgt Ion: 50 Resp: 1571
Ion Ratio Lower Upper
50 100
52 34.9 26.6 40.0

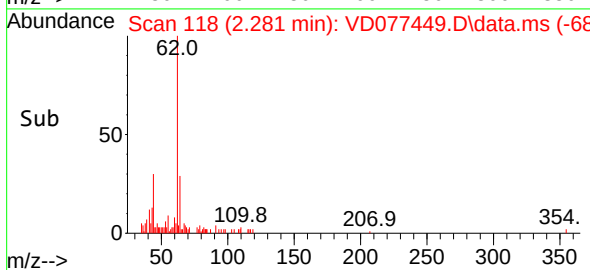
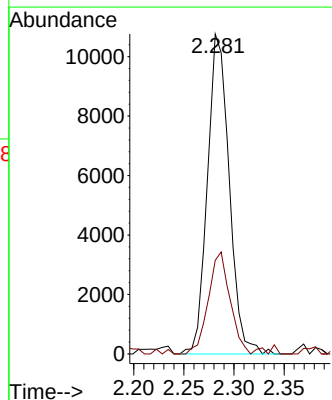
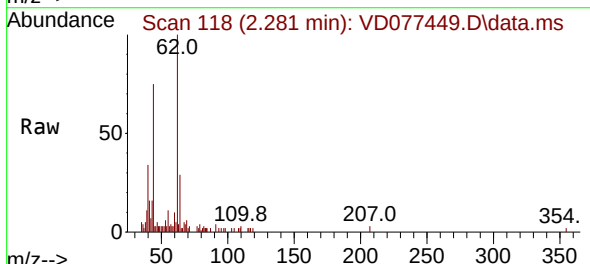
Manual Integrations
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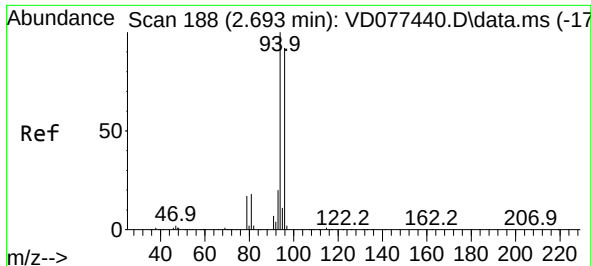
Reviewed By :John Carlone 10/31/2023
Supervised By :Mahesh Dadoda 10/31/2023



#4
Vinyl Chloride
Concen: 4.122 ug/l
RT: 2.281 min Scan# 118
Delta R.T. -0.006 min
Lab File: VD077449.D
Acq: 30 Oct 2023 16:00

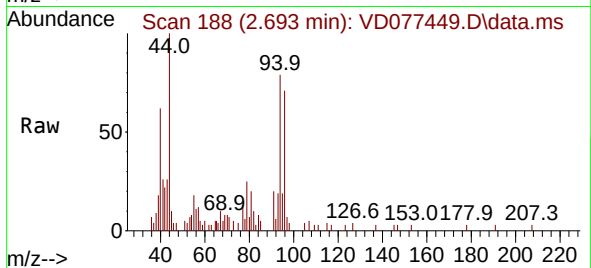
Tgt Ion: 62 Resp: 16326
Ion Ratio Lower Upper
62 100
64 29.3 26.0 39.0





#5
Bromomethane
Concen: 4.744 ug/l
RT: 2.693 min Scan# 188
Delta R.T. 0.000 min
Lab File: VD077449.D
Acq: 30 Oct 2023 16:00

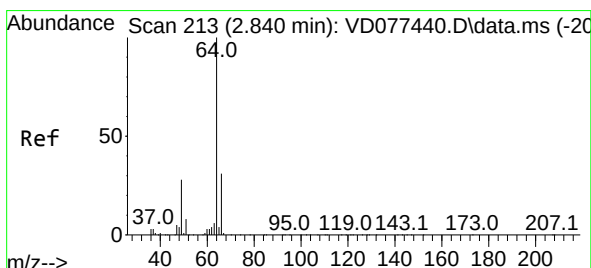
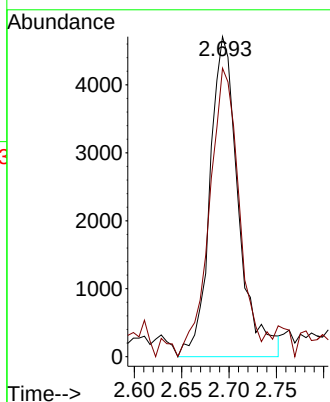
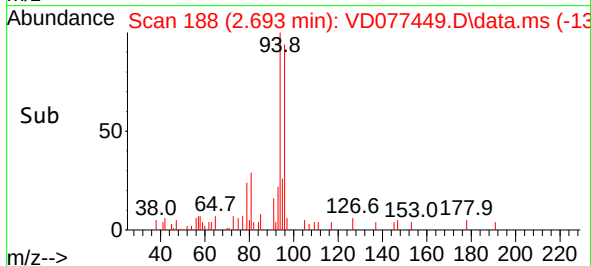
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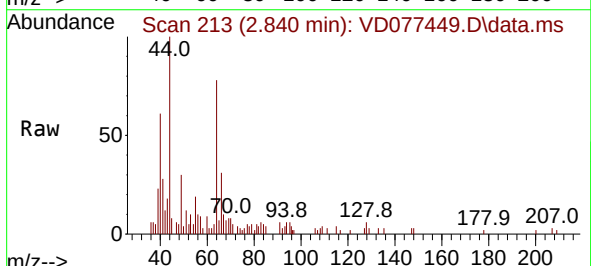
Tgt Ion: 94 Resp: 9844
Ion Ratio Lower Upper
94 100
96 93.1 75.8 113.8

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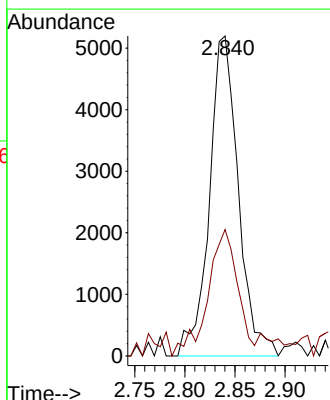
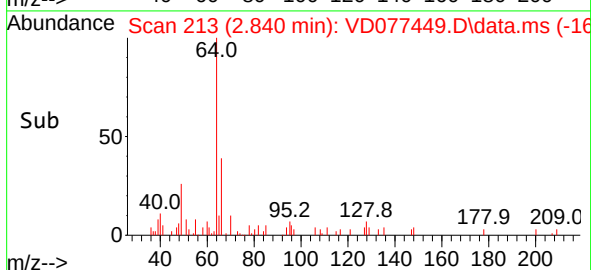
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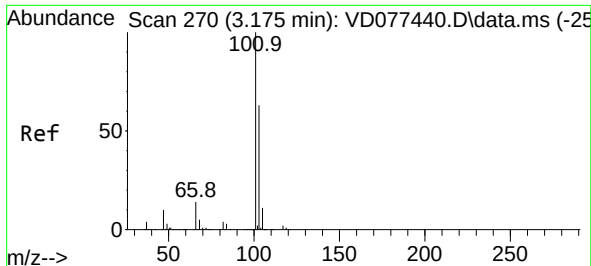


#6
Chloroethane
Concen: 3.917 ug/l
RT: 2.840 min Scan# 213
Delta R.T. 0.000 min
Lab File: VD077449.D
Acq: 30 Oct 2023 16:00



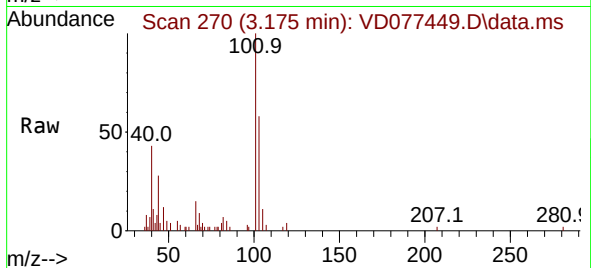
Tgt Ion: 64 Resp: 10443
Ion Ratio Lower Upper
64 100
66 35.5 25.5 38.3





#7
 Trichlorofluoromethane
 Concen: 3.977 ug/l
 RT: 3.175 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VD077449.D
 Acq: 30 Oct 2023 16:00

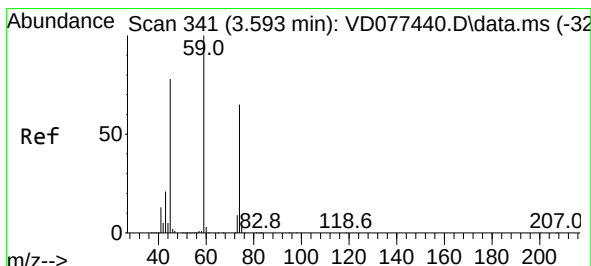
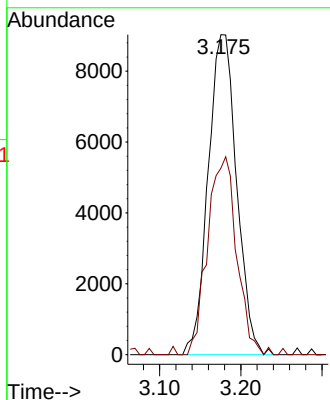
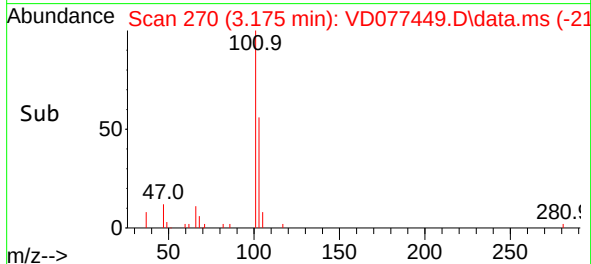
Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2023



Tgt Ion:101 Resp: 2205
 Ion Ratio Lower Upper
 101 100
 103 58.3 52.3 78.5

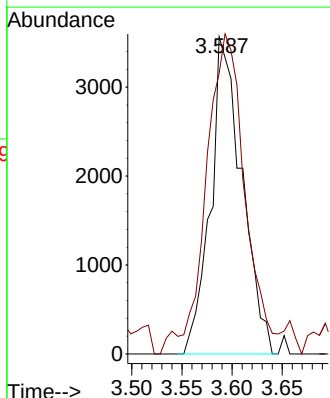
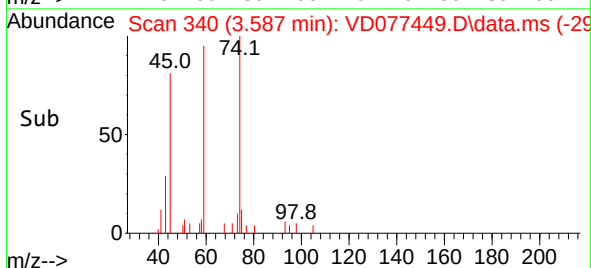
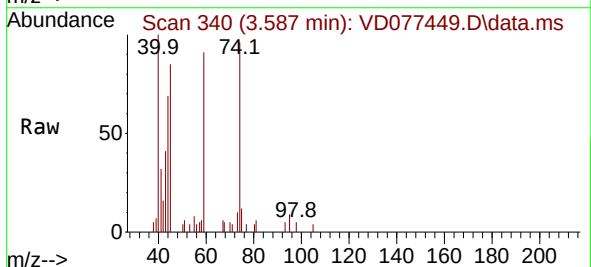
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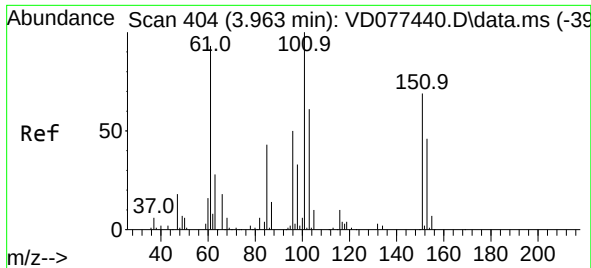
Reviewed By :John Carlone 10/31/2023
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#8
 Diethyl Ether
 Concen: 3.897 ug/l
 RT: 3.587 min Scan# 340
 Delta R.T. -0.006 min
 Lab File: VD077449.D
 Acq: 30 Oct 2023 16:00

Tgt Ion: 74 Resp: 7768
 Ion Ratio Lower Upper
 74 100
 45 124.6 37.5 112.7#





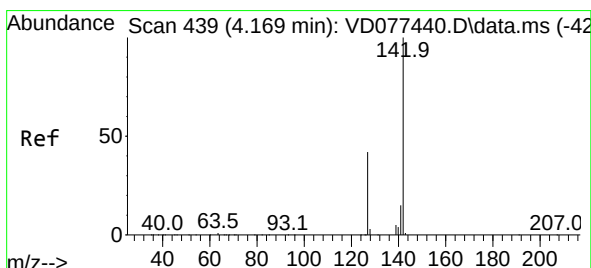
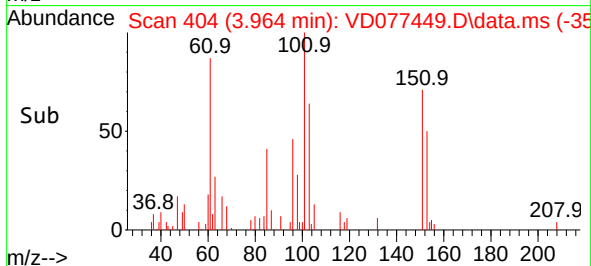
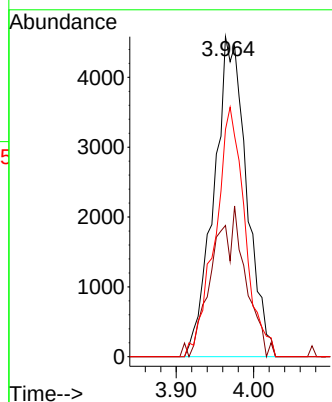
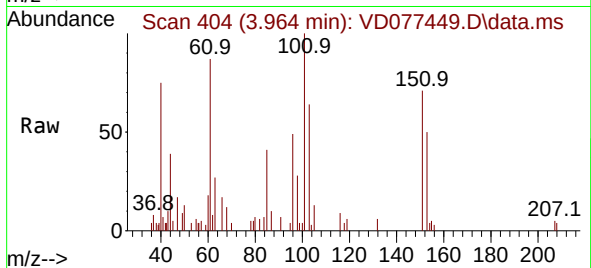
#9
1,1,2-Trichlorotrifluoroethane
Concen: 4.015 ug/l
RT: 3.964 min Scan# 404
Delta R.T. 0.000 min
Lab File: VD077449.D
Acq: 30 Oct 2023 16:00

Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2023

Tgt Ion:101 Resp: 1344
Ion Ratio Lower Upper
101 100
85 27.4 33.8 50.6
151 71.1 59.8 89.6

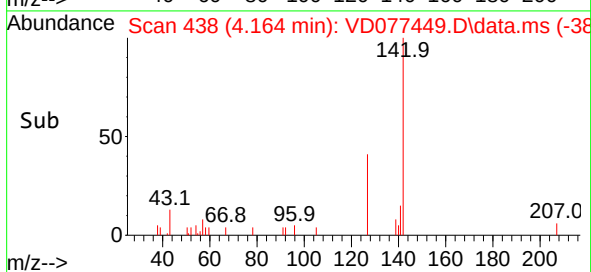
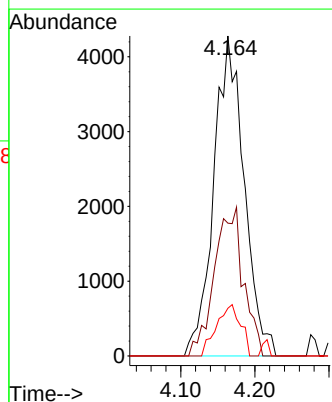
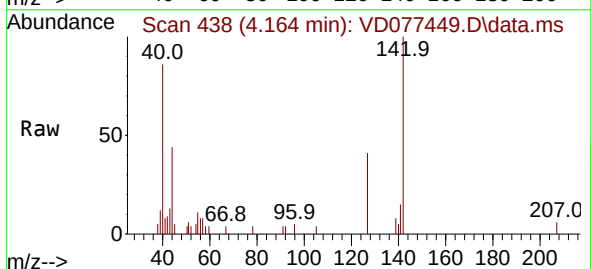
Manual Integrations
APPROVED

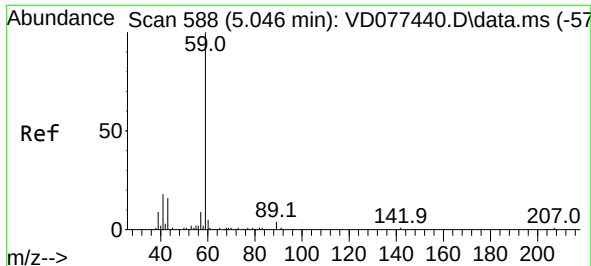
Reviewed By :John Carlone 10/31/2023
Supervised By :Mahesh Dadoda 10/31/2023



#10
Methyl Iodide
Concen: 5.847 ug/l
RT: 4.164 min Scan# 438
Delta R.T. -0.005 min
Lab File: VD077449.D
Acq: 30 Oct 2023 16:00

Tgt Ion:142 Resp: 12178
Ion Ratio Lower Upper
142 100
127 44.4 29.4 44.0#
141 12.8 11.1 16.7





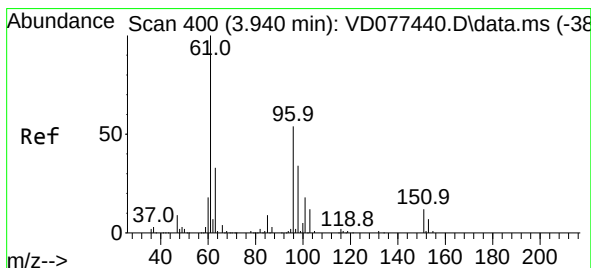
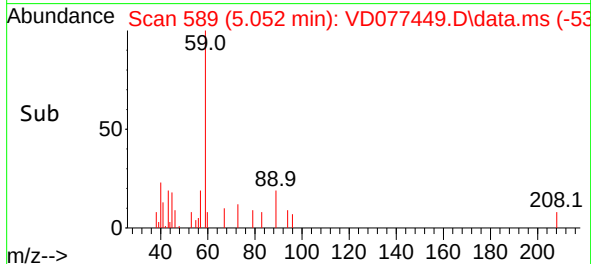
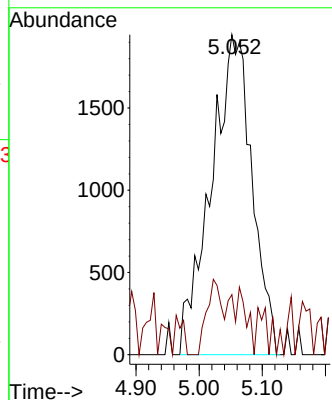
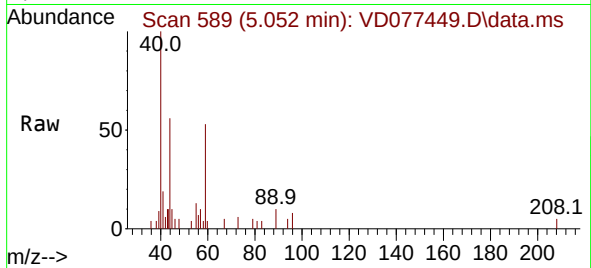
#11
Tert butyl alcohol
Concen: 24.742 ug/l
RT: 5.052 min Scan# 589
Delta R.T. 0.006 min
Lab File: VD077449.D
Acq: 30 Oct 2023 16:00

Instrument : MSVOA_D
ClientSampleId : LOD-MDL-SOIL-01-QT4-2023

Tgt Ion: 59 Resp: 8792
Ion Ratio Lower Upper
59 100
57 1.3 7.8 11.8

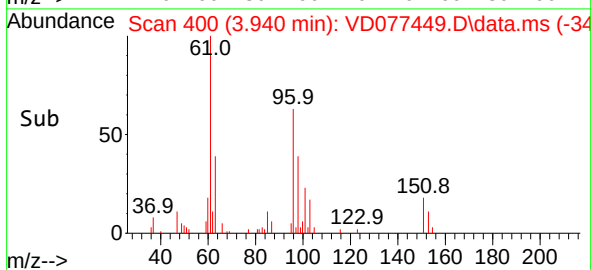
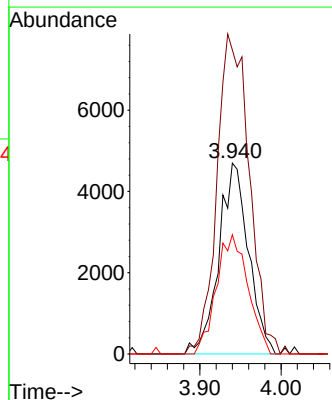
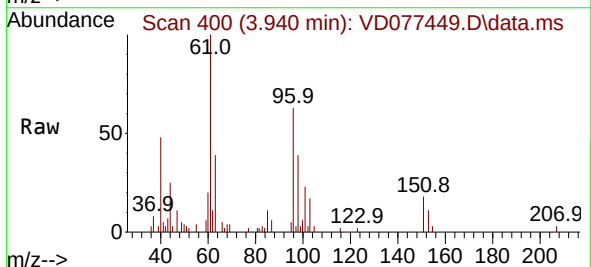
Manual Integrations
APPROVED

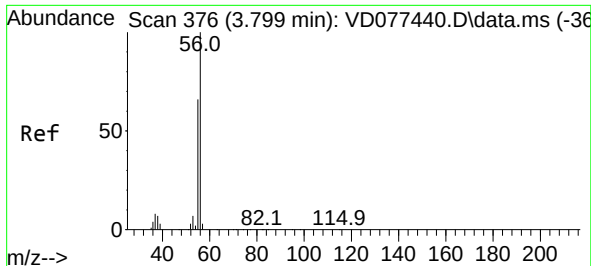
Reviewed By :John Carlone 10/31/2023
Supervised By :Mahesh Dadoda 10/31/2023



#12
1,1-Dichloroethene
Concen: 3.756 ug/l
RT: 3.940 min Scan# 400
Delta R.T. 0.000 min
Lab File: VD077449.D
Acq: 30 Oct 2023 16:00

Tgt Ion: 96 Resp: 11904
Ion Ratio Lower Upper
96 100
61 159.3 100.6 150.8#
98 62.5 50.2 75.2





#13

Acrolein

Concen: 23.534 ug/l

RT: 3.793 min Scan# 31

Delta R.T. -0.006 min

Lab File: VD077449.D

Acq: 30 Oct 2023 16:00

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2023

Tgt Ion: 56 Resp: 11028

Ion Ratio Lower Upper

56 100

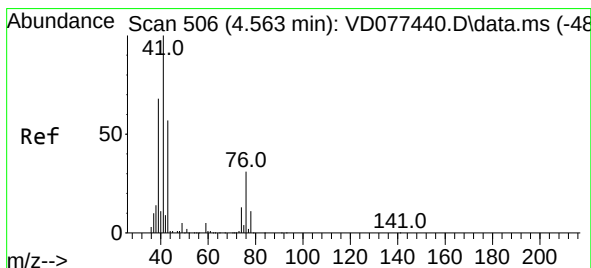
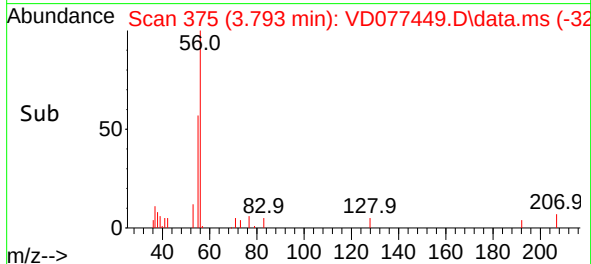
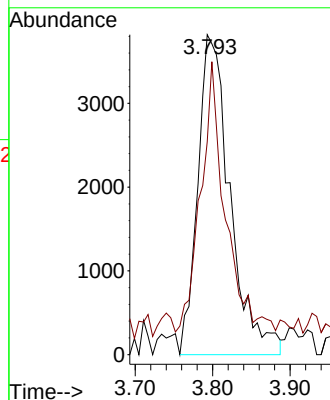
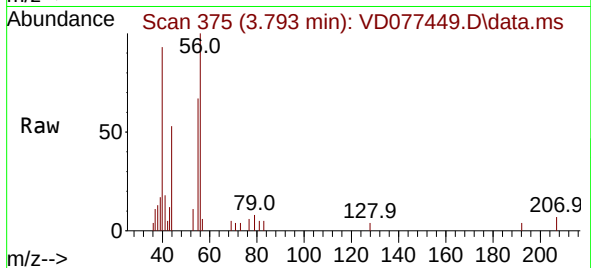
55 65.4 55.1 82.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/31/2023

Supervised By :Mahesh Dadoda 10/31/2023



#14

Allyl chloride

Concen: 3.670 ug/l

RT: 4.569 min Scan# 507

Delta R.T. 0.006 min

Lab File: VD077449.D

Acq: 30 Oct 2023 16:00

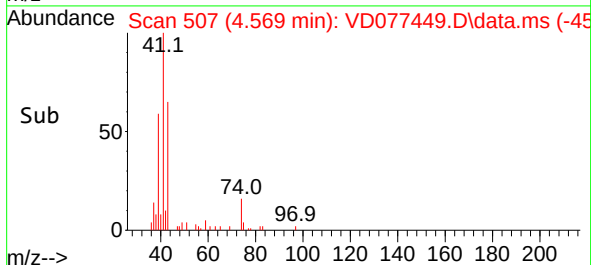
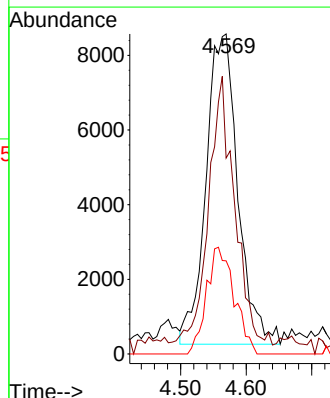
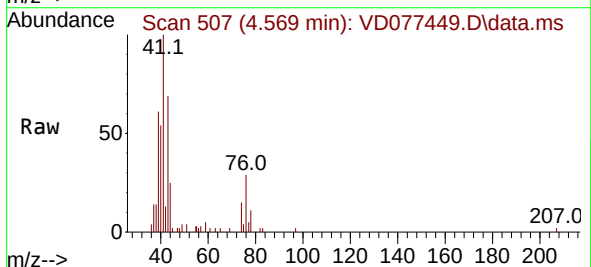
Tgt Ion: 41 Resp: 28062

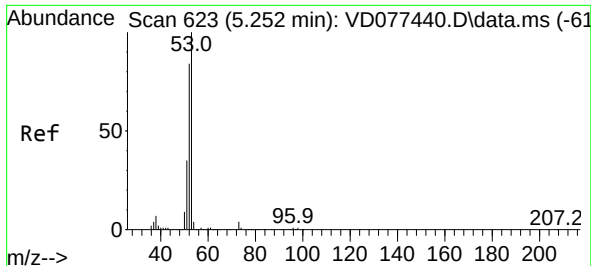
Ion Ratio Lower Upper

41 100

39 69.7 53.8 80.6

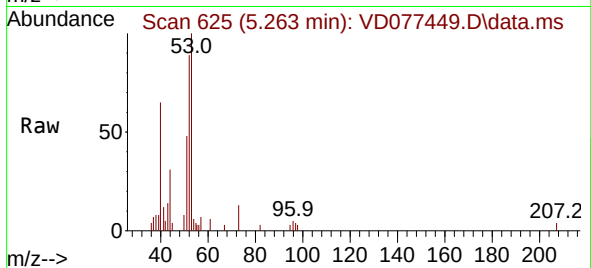
76 30.0 45.8 68.8#





#15
Acrylonitrile
Concen: 18.699 ug/l
RT: 5.263 min Scan# 61
Delta R.T. 0.012 min
Lab File: VD077449.D
Acq: 30 Oct 2023 16:00

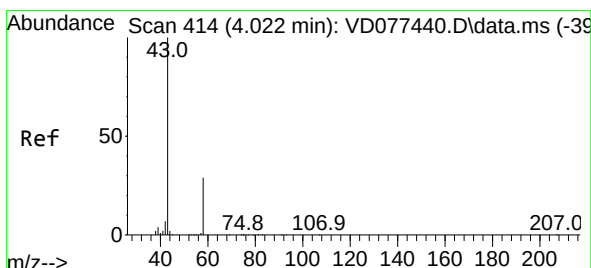
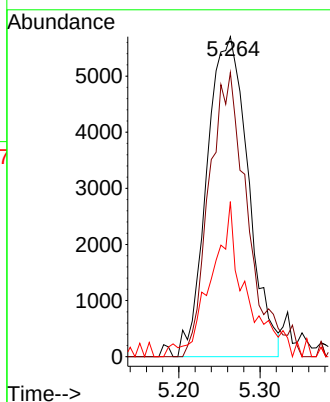
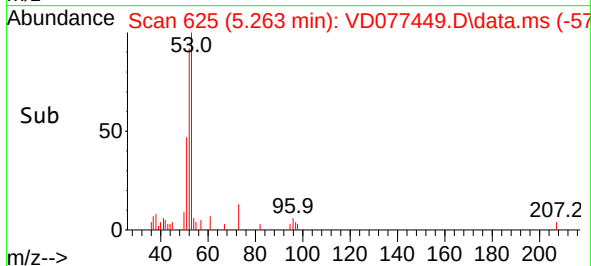
Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2023



Tgt Ion: 53 Resp: 2015
Ion Ratio Lower Upper
53 100
52 83.2 65.0 97.4
51 39.2 28.3 42.5

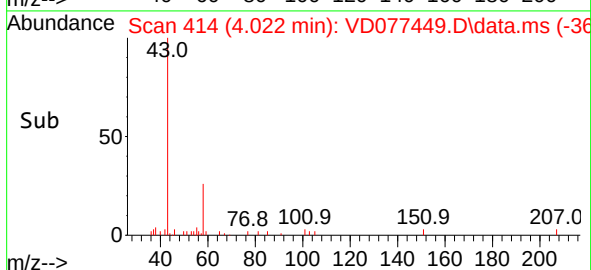
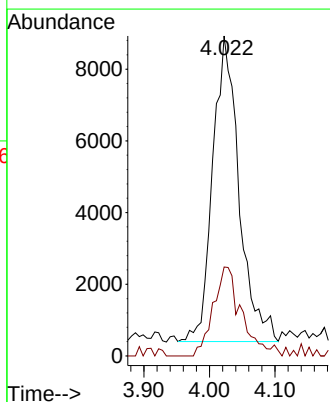
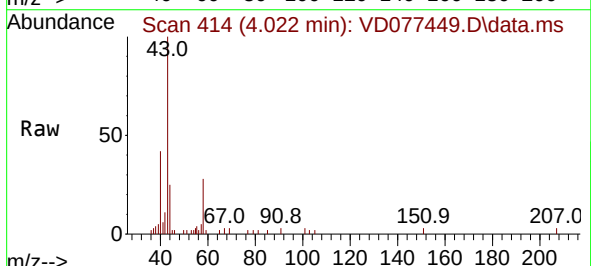
Manual Integrations
APPROVED

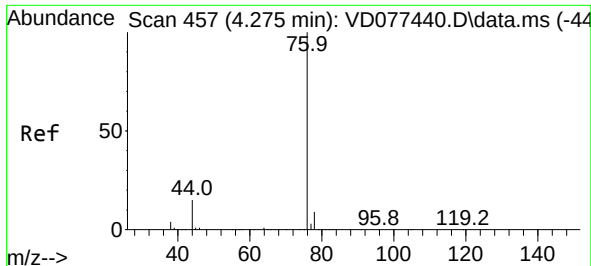
Reviewed By :John Carlone 10/31/2023
Supervised By :Mahesh Dadoda 10/31/2023



#16
Acetone
Concen: 20.065 ug/l
RT: 4.022 min Scan# 414
Delta R.T. 0.000 min
Lab File: VD077449.D
Acq: 30 Oct 2023 16:00

Tgt Ion: 43 Resp: 23818
Ion Ratio Lower Upper
43 100
58 29.1 34.7 52.1#





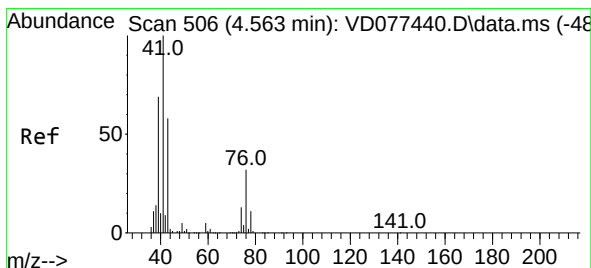
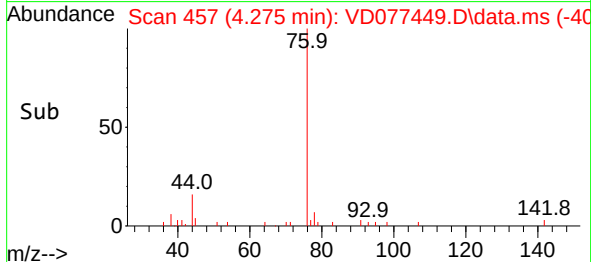
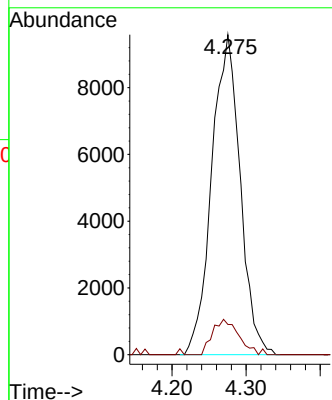
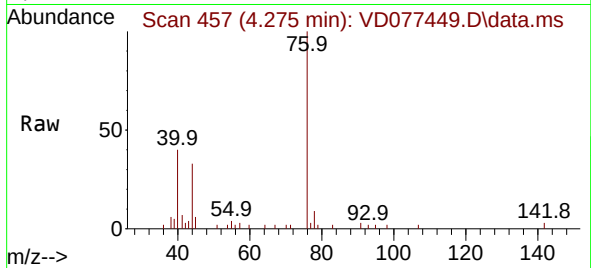
#17
Carbon Disulfide
Concen: 6.170 ug/l
RT: 4.275 min Scan# 457
Delta R.T. 0.000 min
Lab File: VD077449.D
Acq: 30 Oct 2023 16:00

Instrument : MSVOA_D
ClientSampleId : LOD-MDL-SOIL-01-QT4-2023

Tgt Ion: 76 Resp: 2551
Ion Ratio Lower Upper
76 100
78 9.4 6.8 10.2

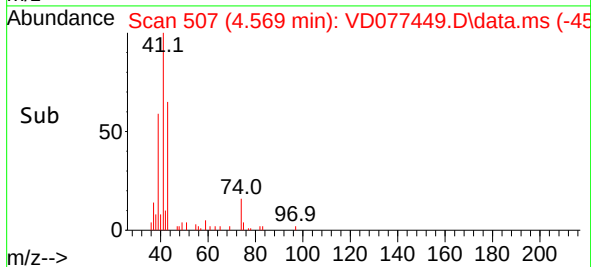
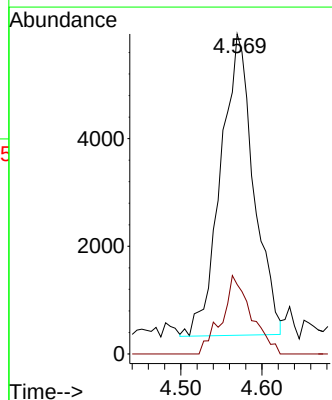
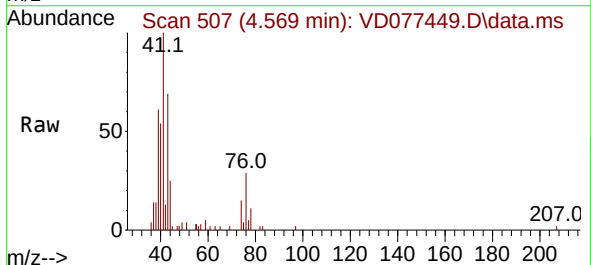
Manual Integrations
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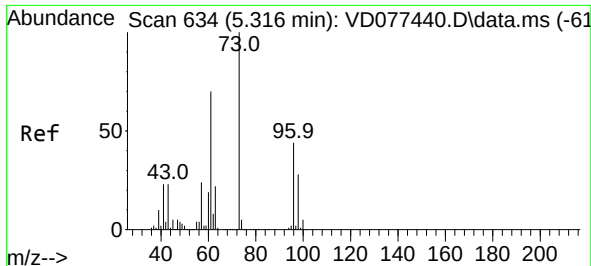
Reviewed By :John Carlone 10/31/2023
Supervised By :Mahesh Dadoda 10/31/2023



#18
Methyl Acetate
Concen: 3.655 ug/l
RT: 4.569 min Scan# 507
Delta R.T. 0.006 min
Lab File: VD077449.D
Acq: 30 Oct 2023 16:00

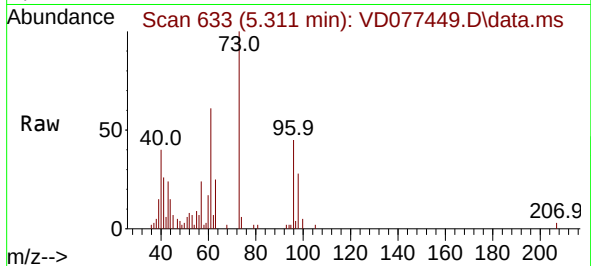
Tgt Ion: 43 Resp: 15824
Ion Ratio Lower Upper
43 100
74 23.2 26.4 39.6#





#19
Methyl tert-butyl Ether
Concen: 3.782 ug/l
RT: 5.311 min Scan# 611
Delta R.T. -0.006 min
Lab File: VD077449.D
Acq: 30 Oct 2023 16:00

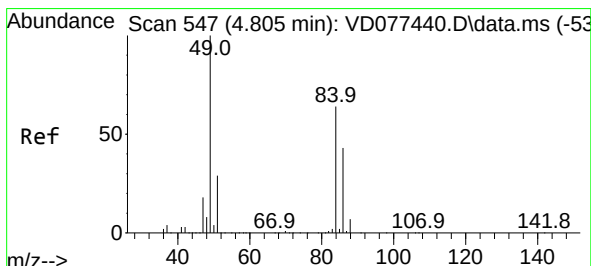
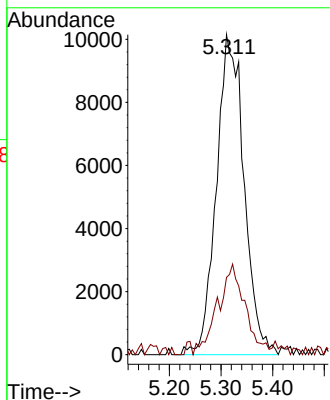
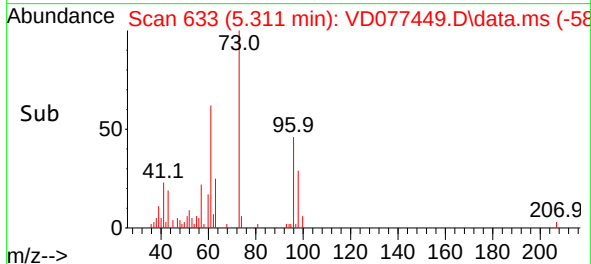
Instrument : MSVOA_D
ClientSampleId : LOD-MDL-SOIL-01-QT4-2023



Tgt Ion: 73 Resp: 3762
Ion Ratio Lower Upper
73 100
57 24.1 16.6 25.0

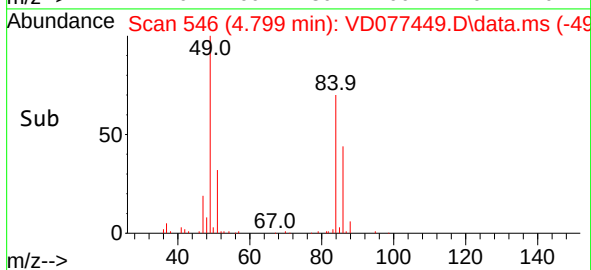
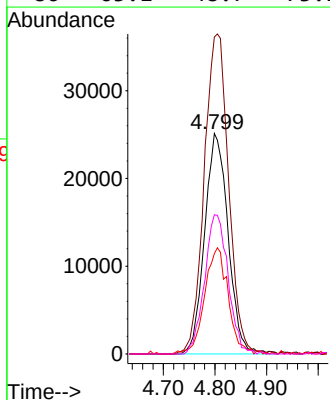
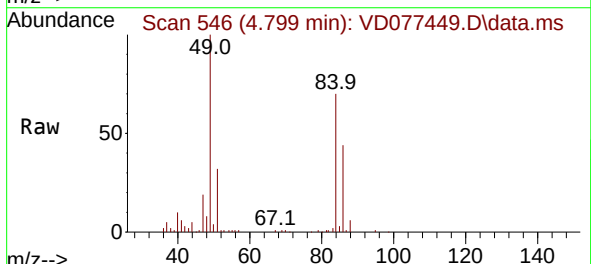
Manual Integrations
APPROVED

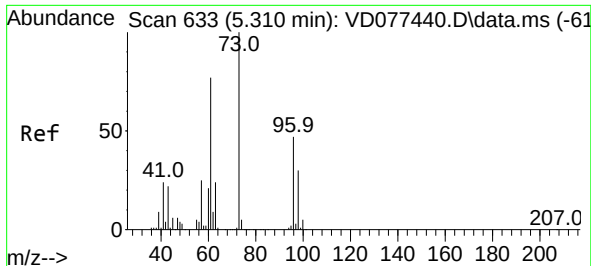
Reviewed By :John Carlone 10/31/2023
Supervised By :Mahesh Dadoda 10/31/2023



#20
Methylene Chloride
Concen: 16.165 ug/l
RT: 4.799 min Scan# 546
Delta R.T. -0.006 min
Lab File: VD077449.D
Acq: 30 Oct 2023 16:00

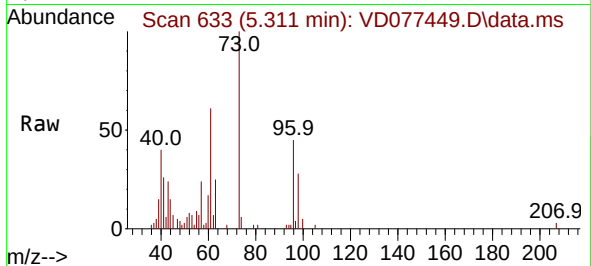
Tgt Ion: 84 Resp: 79439
Ion Ratio Lower Upper
84 100
49 143.7 71.4 107.2#
51 45.5 24.5 36.7#
86 63.1 48.7 73.1





#21
trans-1,2-Dichloroethene
Concen: 3.681 ug/l
RT: 5.311 min Scan# 611
Delta R.T. 0.001 min
Lab File: VD077449.D
Acq: 30 Oct 2023 16:00

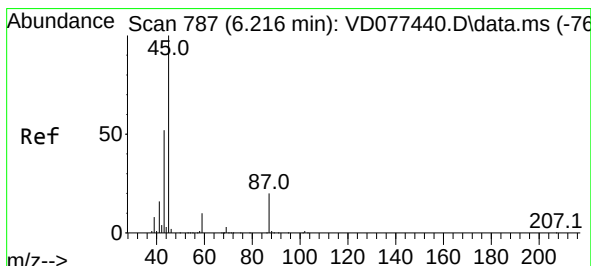
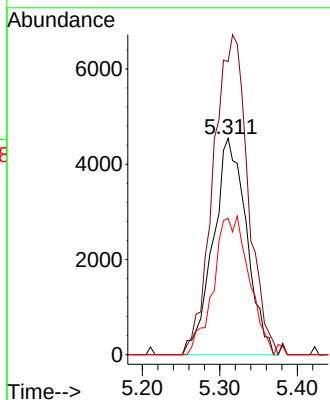
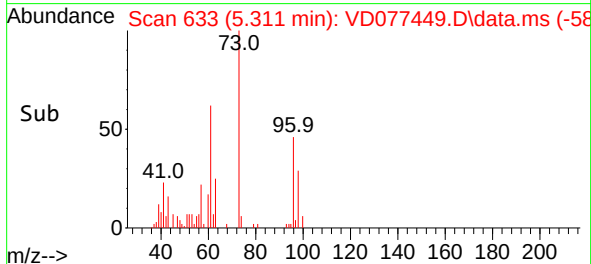
Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2023



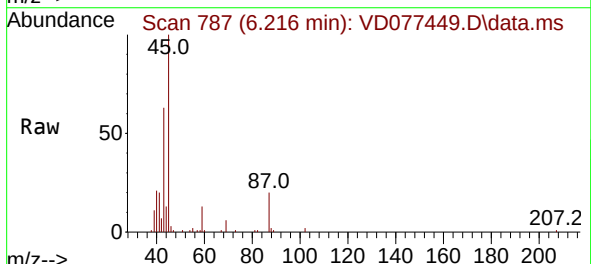
Tgt Ion: 96 Resp: 13590
Ion Ratio Lower Upper
96 100
61 135.5 89.3 133.9
98 63.0 48.6 73.0

Manual Integrations
APPROVED

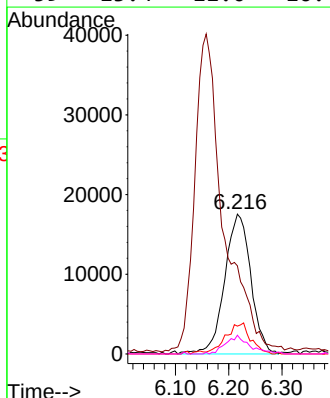
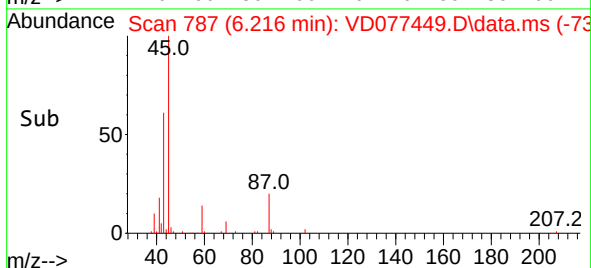
Reviewed By :John Carlone 10/31/2023
Supervised By :Mahesh Dadoda 10/31/2023

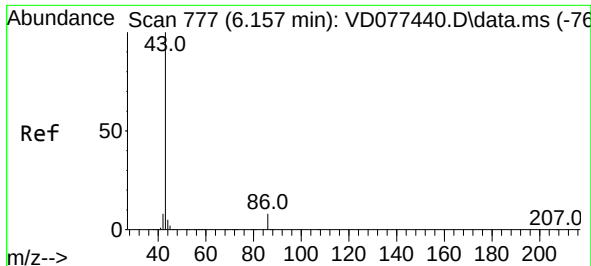


#22
Diisopropyl ether
Concen: 3.688 ug/l
RT: 6.216 min Scan# 787
Delta R.T. 0.000 min
Lab File: VD077449.D
Acq: 30 Oct 2023 16:00



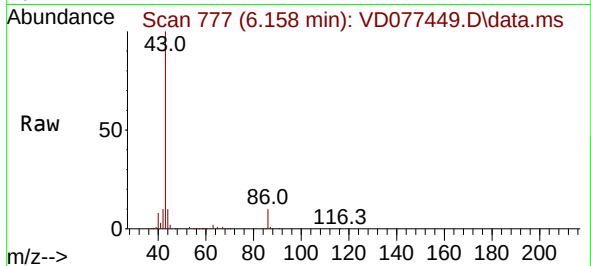
Tgt Ion: 45 Resp: 59935
Ion Ratio Lower Upper
45 100
43 58.1 40.0 60.0
87 19.9 28.2 42.4
59 13.4 11.0 16.4





#23
 Vinyl Acetate
 Concen: 17.921 ug/l m
 RT: 6.158 min Scan# 777
 Delta R.T. 0.000 min
 Lab File: VD077449.D
 Acq: 30 Oct 2023 16:00

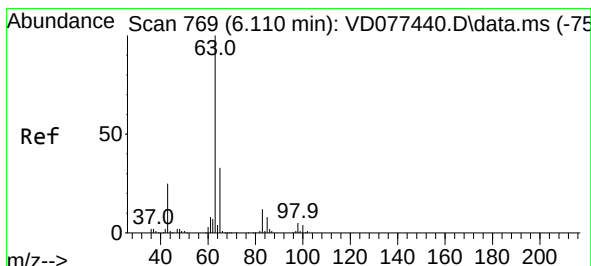
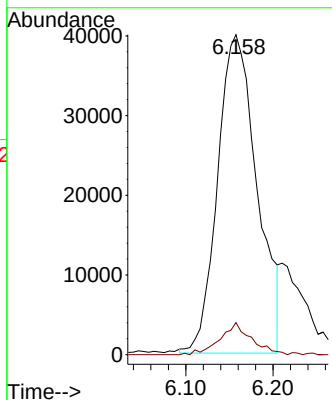
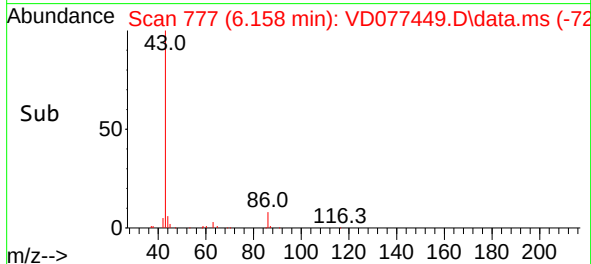
Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2023



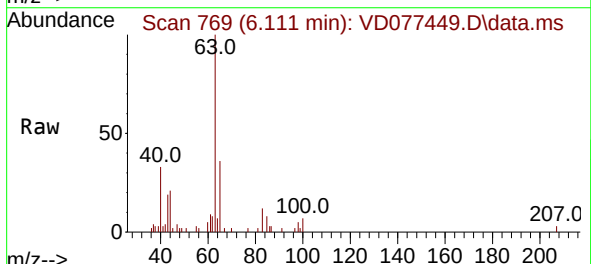
Tgt Ion: 43 Resp: 125640
 Ion Ratio Lower Upper
 43 100
 86 10.0 12.5 18.7

Manual Integrations
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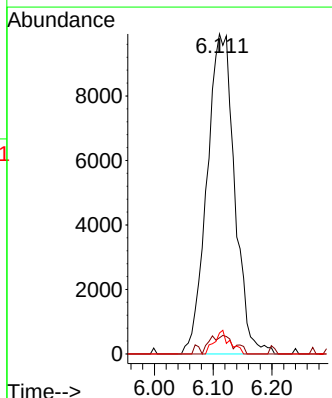
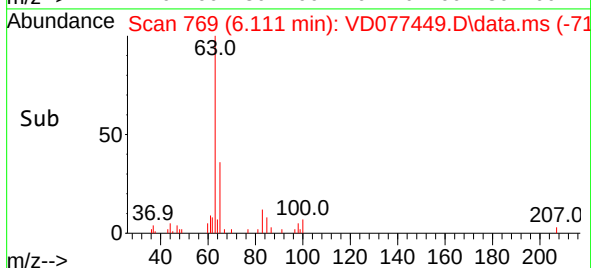
Reviewed By :John Carlone 10/31/2023
 Supervised By :Mahesh Dadoda 10/31/2023

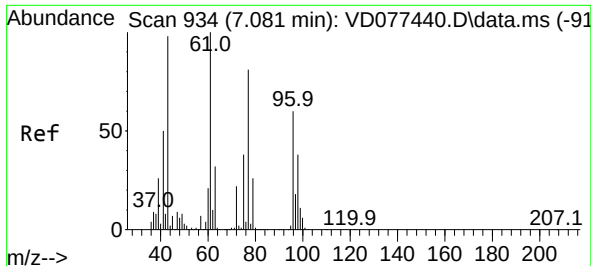


#24
 1,1-Dichloroethane
 Concen: 3.853 ug/l
 RT: 6.111 min Scan# 769
 Delta R.T. 0.000 min
 Lab File: VD077449.D
 Acq: 30 Oct 2023 16:00



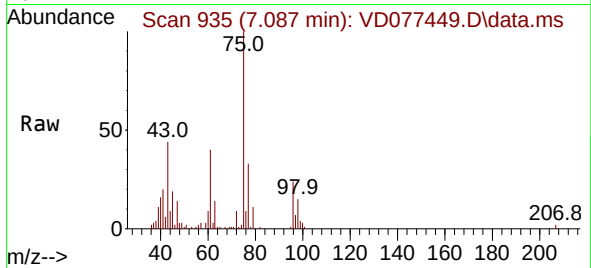
Tgt Ion: 63 Resp: 32495
 Ion Ratio Lower Upper
 63 100
 98 5.0 4.5 13.7
 100 6.6 2.5 7.5





#25
2-Butanone
Concen: 20.127 ug/l
RT: 7.087 min Scan# 91
Delta R.T. 0.006 min
Lab File: VD077449.D
Acq: 30 Oct 2023 16:00

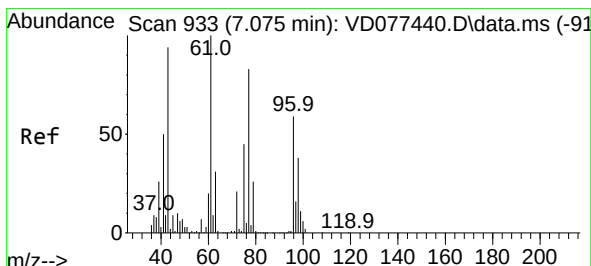
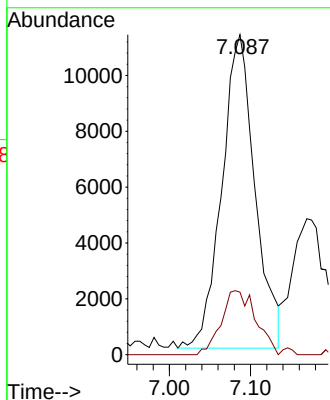
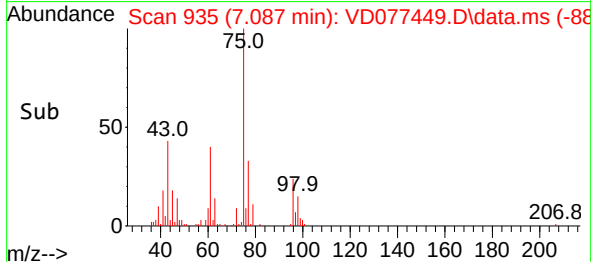
Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2023



Tgt Ion: 43 Resp: 3186
Ion Ratio Lower Upper
43 100
72 20.0 30.7 46.1

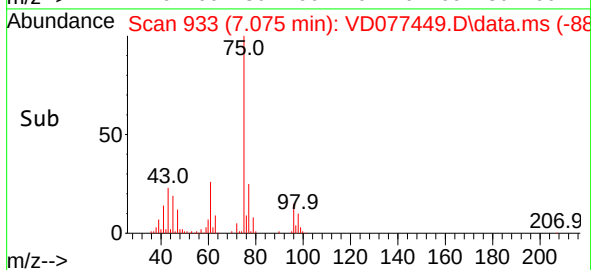
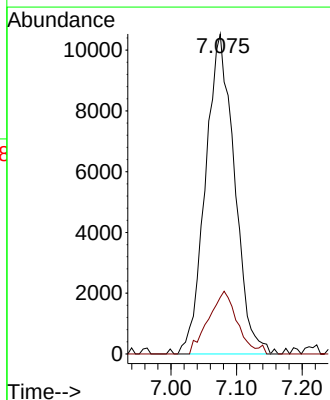
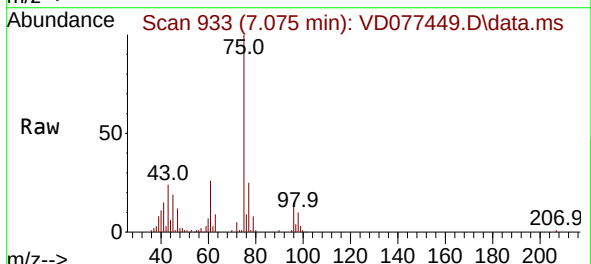
Manual Integrations
APPROVED

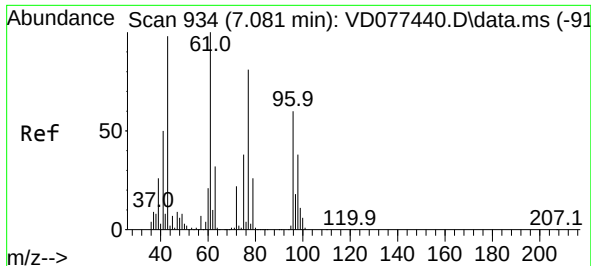
Reviewed By :John Carlone 10/31/2023
Supervised By :Mahesh Dadoda 10/31/2023



#26
2,2-Dichloropropane
Concen: 4.337 ug/l
RT: 7.075 min Scan# 933
Delta R.T. 0.000 min
Lab File: VD077449.D
Acq: 30 Oct 2023 16:00

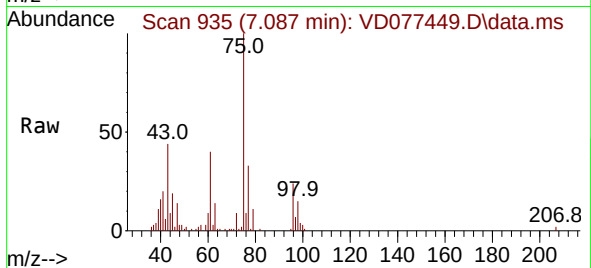
Tgt Ion: 77 Resp: 32411
Ion Ratio Lower Upper
77 100
97 19.5 13.2 39.6





#27
 cis-1,2-Dichloroethene
 Concen: 3.898 ug/l
 RT: 7.087 min Scan# 91
 Delta R.T. 0.006 min
 Lab File: VD077449.D
 Acq: 30 Oct 2023 16:00

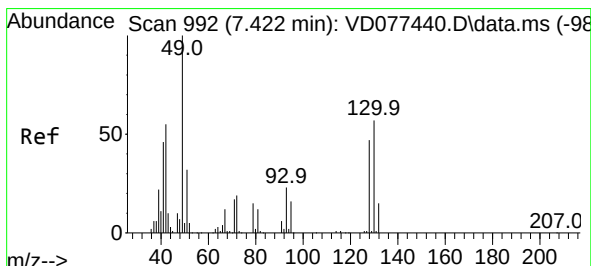
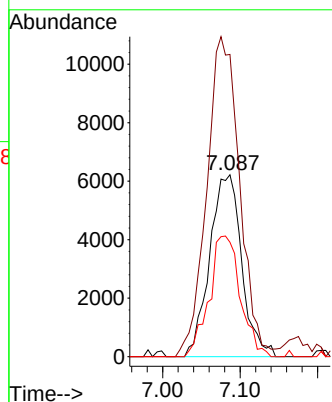
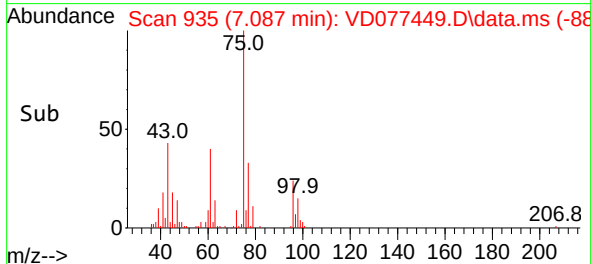
Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2023



Tgt Ion: 96 Resp: 1782
 Ion Ratio Lower Upper
 96 100
 61 180.7 0.0 239.2
 98 64.6 0.0 128.6

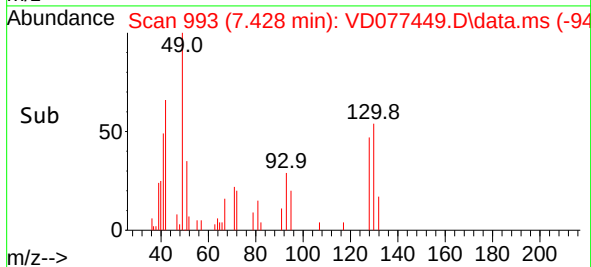
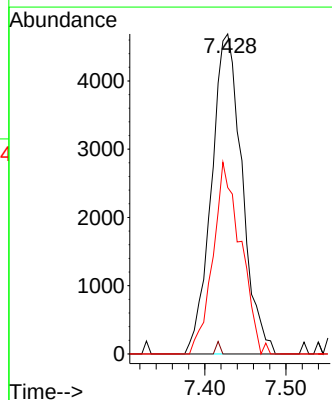
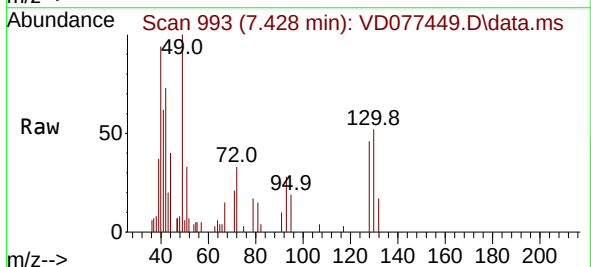
Manual Integrations
 APPROVED

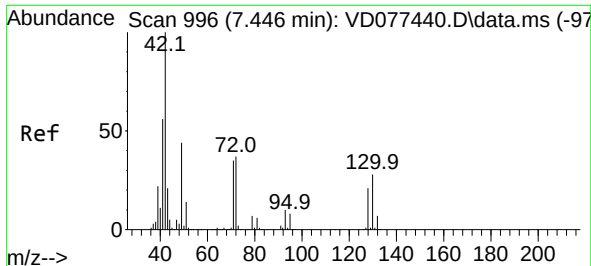
Reviewed By :John Carlone 10/31/2023
 Supervised By :Mahesh Dadoda 10/31/2023



#28
 Bromochloromethane
 Concen: 5.178 ug/l
 RT: 7.428 min Scan# 993
 Delta R.T. 0.006 min
 Lab File: VD077449.D
 Acq: 30 Oct 2023 16:00

Tgt Ion: 49 Resp: 12260
 Ion Ratio Lower Upper
 49 100
 129 0.5 0.0 6.0
 130 54.4 83.2 124.8#





#29

Tetrahydrofuran

Concen: 17.706 ug/l

RT: 7.446 min Scan# 996

Delta R.T. 0.000 min

Lab File: VD077449.D

Acq: 30 Oct 2023 16:00

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2023

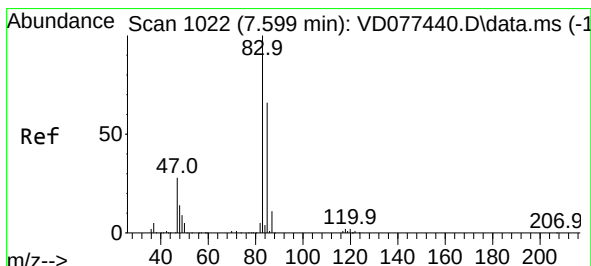
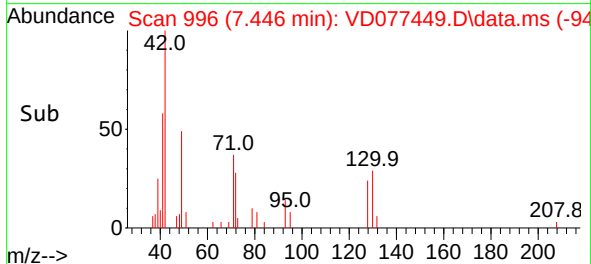
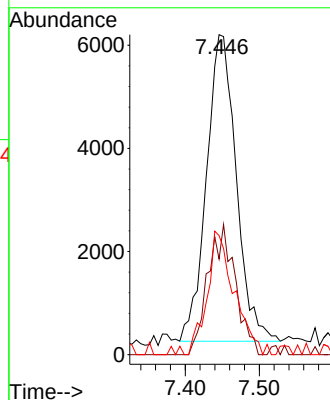
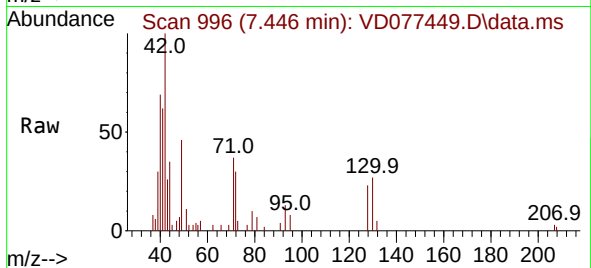
Tgt Ion:	42	Resp:	1662
Ion Ratio	Lower	Upper	
42	100		
72	38.8	46.5	69.7
71	36.8	44.5	66.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/31/2023

Supervised By :Mahesh Dadoda 10/31/2023



#30

Chloroform

Concen: 3.828 ug/l

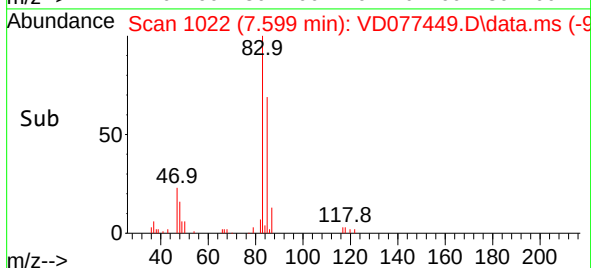
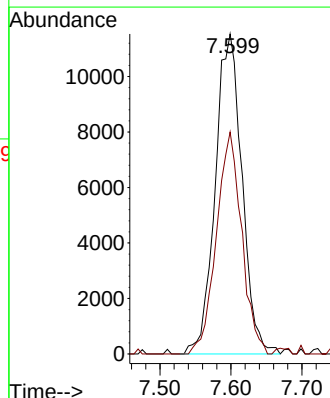
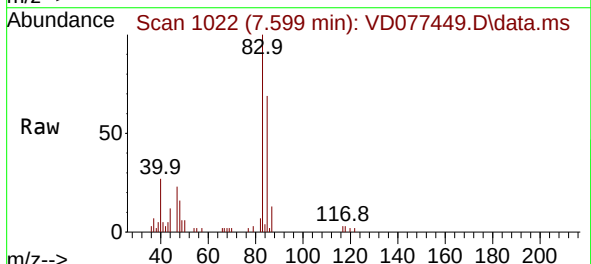
RT: 7.599 min Scan# 1022

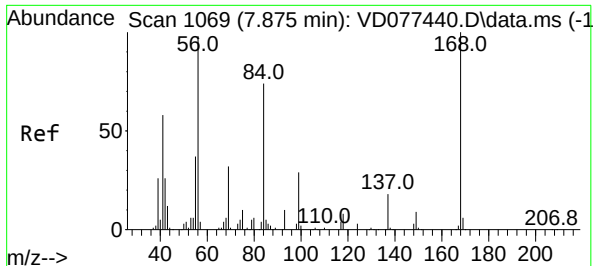
Delta R.T. 0.000 min

Lab File: VD077449.D

Acq: 30 Oct 2023 16:00

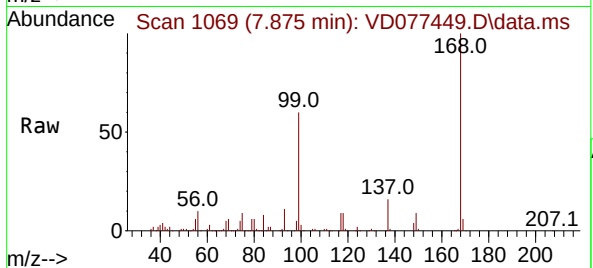
Tgt Ion:	83	Resp:	30141
Ion Ratio	Lower	Upper	
83	100		
85	69.3	53.4	80.2





#31
Cyclohexane
Concen: 4.668 ug/l
RT: 7.875 min Scan# 1069
Delta R.T. 0.000 min
Lab File: VD077449.D
Acq: 30 Oct 2023 16:00

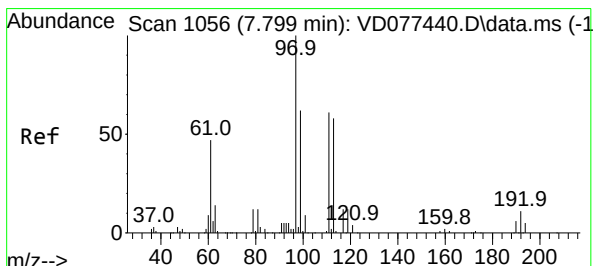
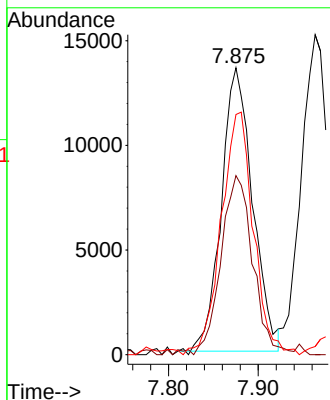
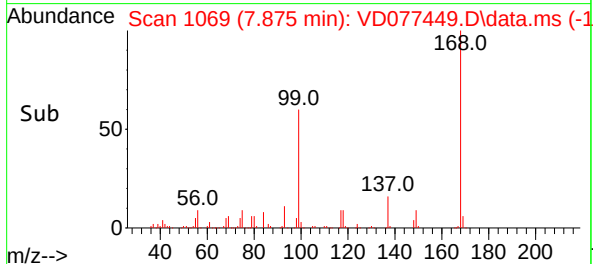
Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2023



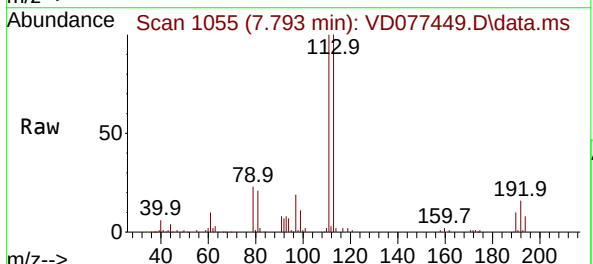
Tgt Ion: 56 Resp: 3273
Ion Ratio Lower Upper
56 100
69 61.4 28.6 43.0
84 83.3 84.8 127.2

Manual Integrations
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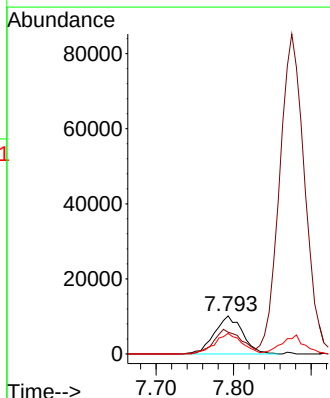
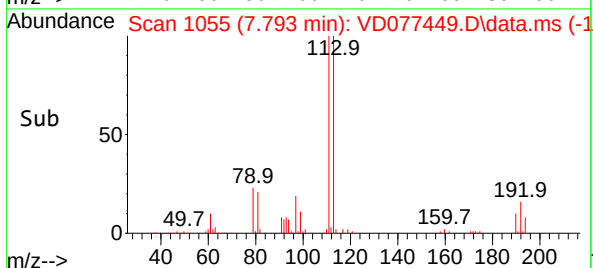
Reviewed By :John Carlone 10/31/2023
Supervised By :Mahesh Dadoda 10/31/2023

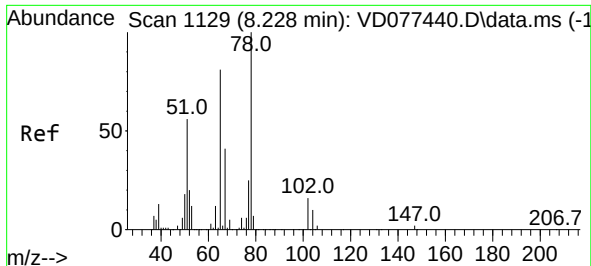


#32
1,1,1-Trichloroethane
Concen: 3.942 ug/l
RT: 7.793 min Scan# 1055
Delta R.T. -0.006 min
Lab File: VD077449.D
Acq: 30 Oct 2023 16:00



Tgt Ion: 97 Resp: 25571
Ion Ratio Lower Upper
97 100
99 63.5 52.0 78.0
61 52.2 33.8 50.8





#33

1,2-Dichloroethane-d4

Concen: 45.802 ug/l

RT: 8.228 min Scan# 1129

Delta R.T. 0.000 min

Lab File: VD077449.D

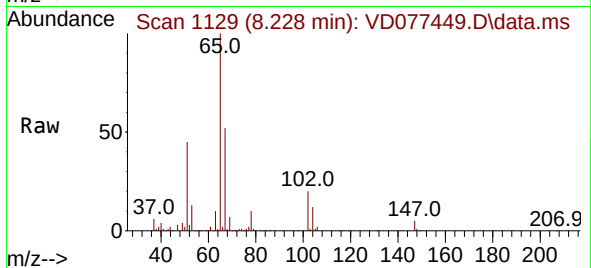
Acq: 30 Oct 2023 16:00

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2023



Tgt Ion: 65 Resp: 205468

Ion Ratio Lower Upper

65 100

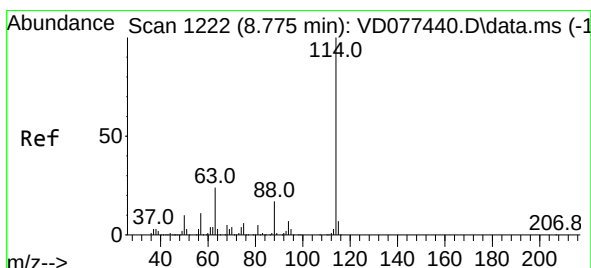
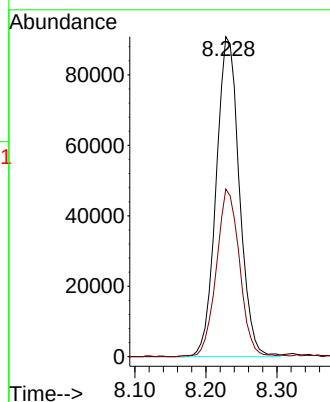
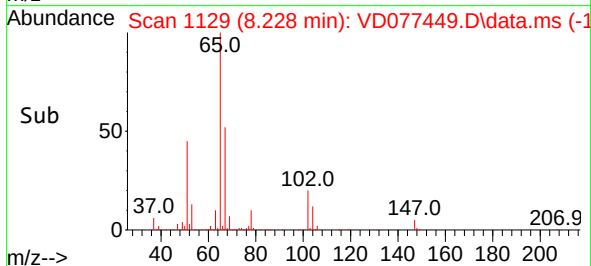
67 52.7 0.0 115.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/31/2023

Supervised By :Mahesh Dadoda 10/31/2023



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.775 min Scan# 1222

Delta R.T. 0.000 min

Lab File: VD077449.D

Acq: 30 Oct 2023 16:00

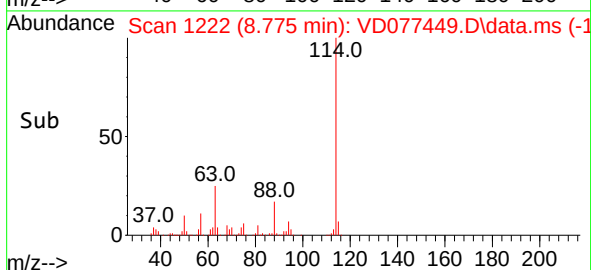
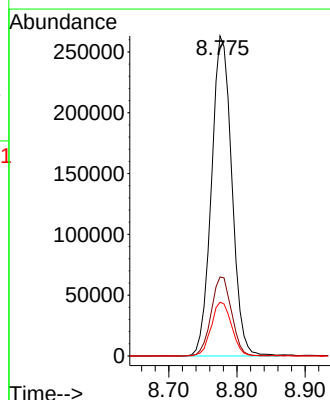
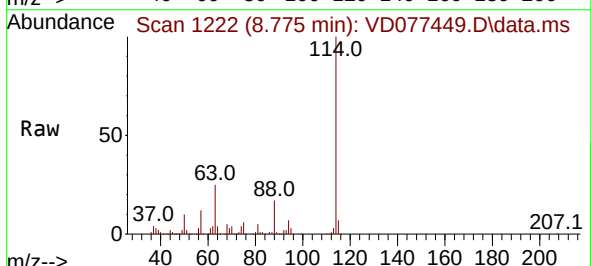
Tgt Ion:114 Resp: 547120

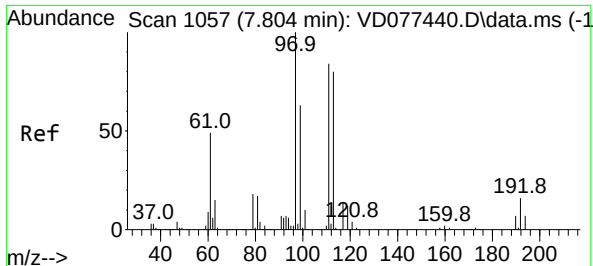
Ion Ratio Lower Upper

114 100

63 24.7 0.0 33.4

88 16.8 0.0 26.2





#35

Dibromofluoromethane

Concen: 47.636 ug/l

RT: 7.805 min Scan# 1057

Delta R.T. 0.000 min

Lab File: VD077449.D

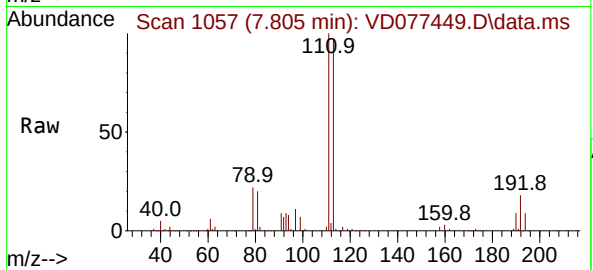
Acq: 30 Oct 2023 16:00

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2023



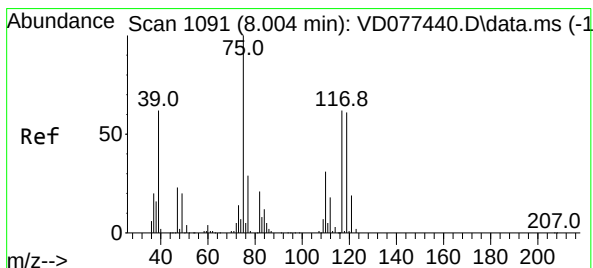
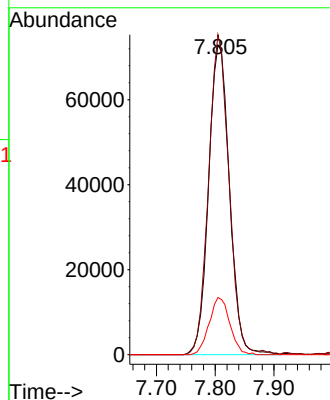
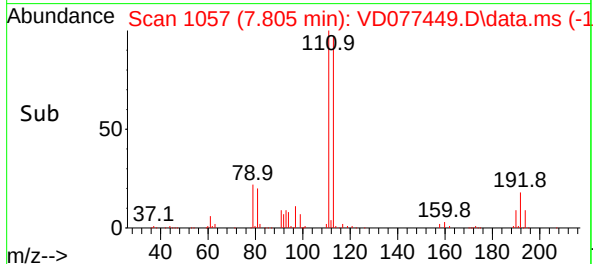
Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.1	84.7	127.1
192	18.2	16.8	25.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/31/2023

Supervised By :Mahesh Dadoda 10/31/2023



#36

1,1-Dichloropropene

Concen: 3.860 ug/l

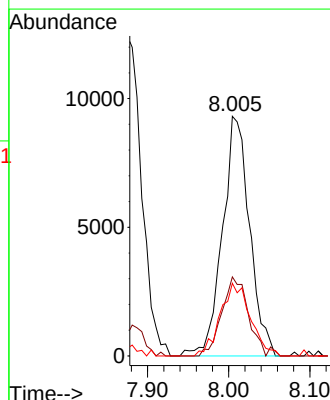
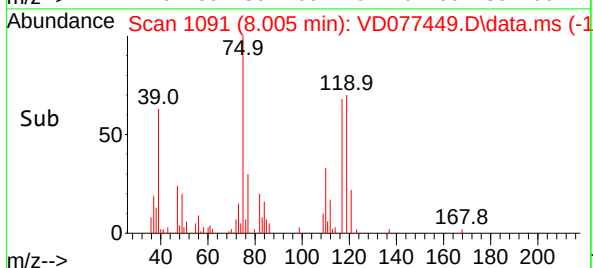
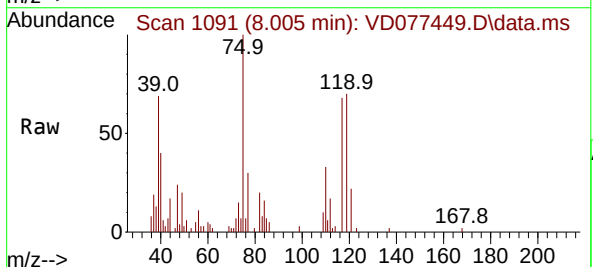
RT: 8.005 min Scan# 1091

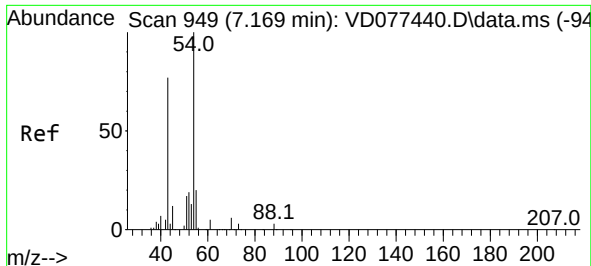
Delta R.T. 0.000 min

Lab File: VD077449.D

Acq: 30 Oct 2023 16:00

Tgt Ion	Ratio	Lower	Upper
75	100		
110	32.7	19.9	59.6
77	33.6	24.7	37.1





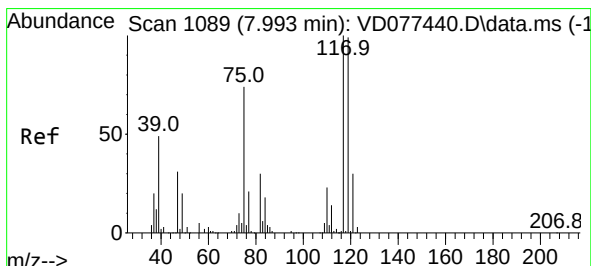
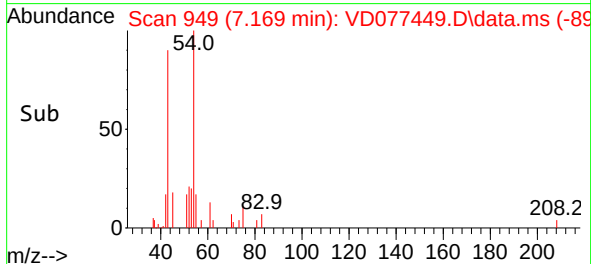
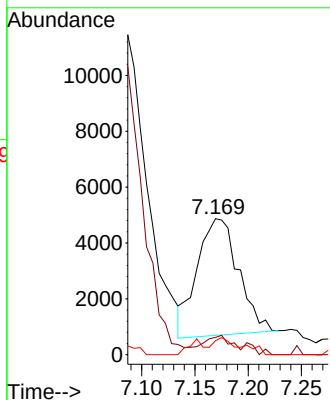
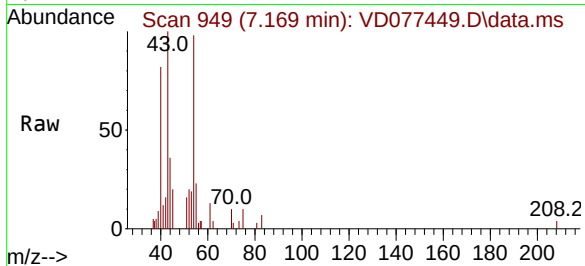
#37
Ethyl Acetate
Concen: 3.515 ug/l
RT: 7.169 min Scan# 949
Delta R.T. 0.000 min
Lab File: VD077449.D
Acq: 30 Oct 2023 16:00

Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2023

Tgt Ion: 43 Resp: 1131
Ion Ratio Lower Upper
43 100
61 0.0 14.9 22.3
70 3.5 10.0 15.0

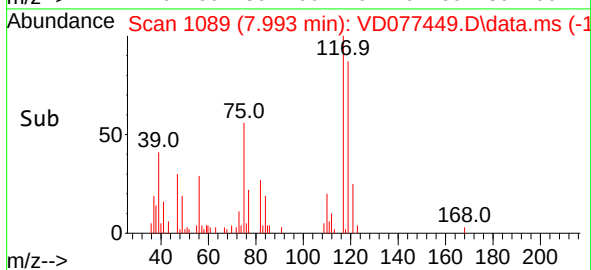
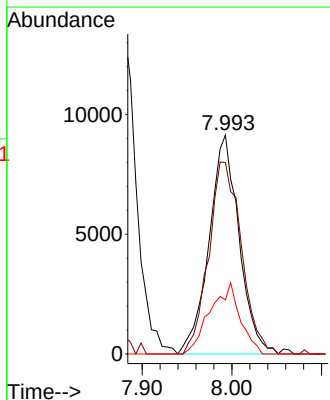
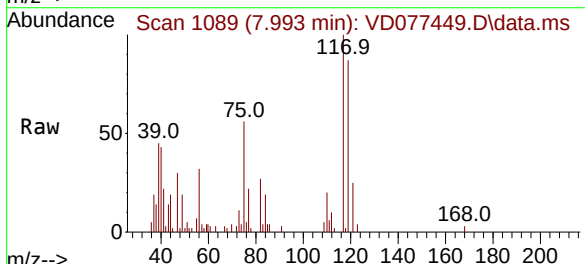
Manual Integrations
APPROVED

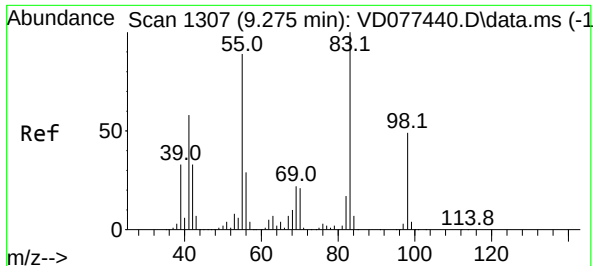
Reviewed By :John Carlone 10/31/2023
Supervised By :Mahesh Dadoda 10/31/2023



#38
Carbon Tetrachloride
Concen: 4.014 ug/l
RT: 7.993 min Scan# 1089
Delta R.T. 0.000 min
Lab File: VD077449.D
Acq: 30 Oct 2023 16:00

Tgt Ion:117 Resp: 21209
Ion Ratio Lower Upper
117 100
119 87.5 78.0 117.0
121 24.7 24.2 36.2





#39

Methylcyclohexane

Concen: 3.837 ug/l

RT: 9.269 min Scan# 11306

Delta R.T. -0.006 min

Lab File: VD077449.D

Acq: 30 Oct 2023 16:00

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2023

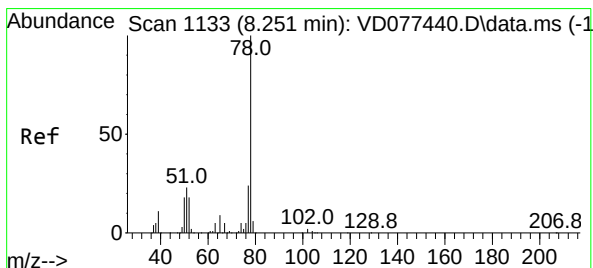
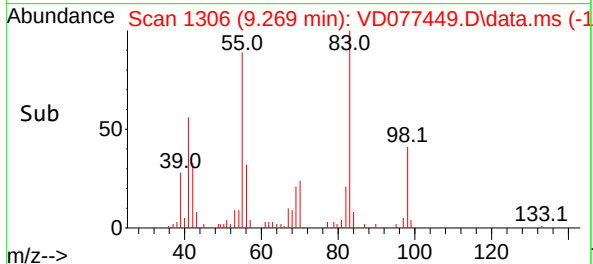
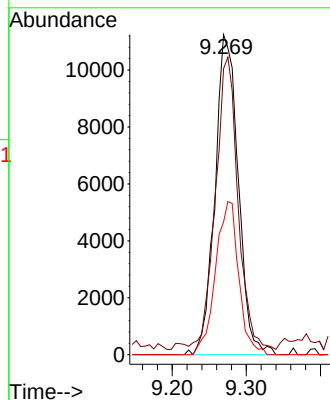
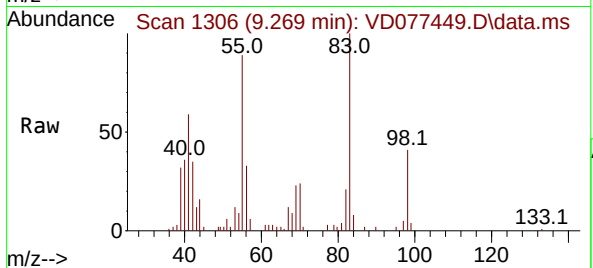
Tgt Ion: 83	Resp: 2454
Ion Ratio	Lower Upper
83 100	
55 85.9	49.4 74.0
98 41.5	38.4 57.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/31/2023

Supervised By :Mahesh Dadoda 10/31/2023



#40

Benzene

Concen: 3.844 ug/l

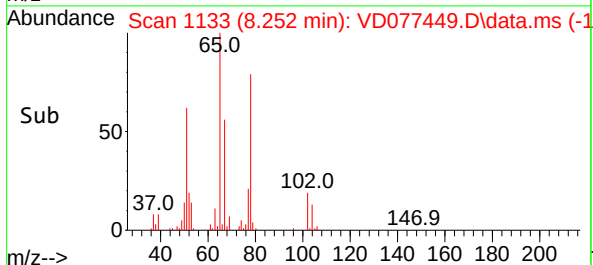
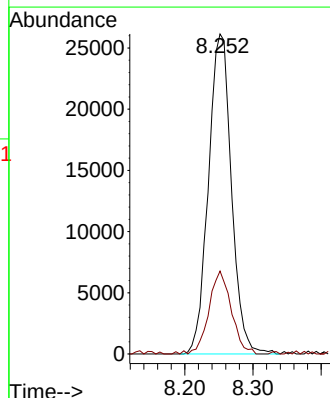
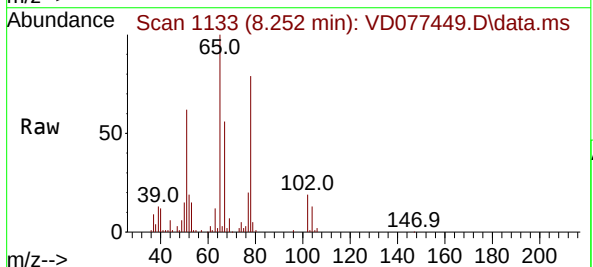
RT: 8.252 min Scan# 1133

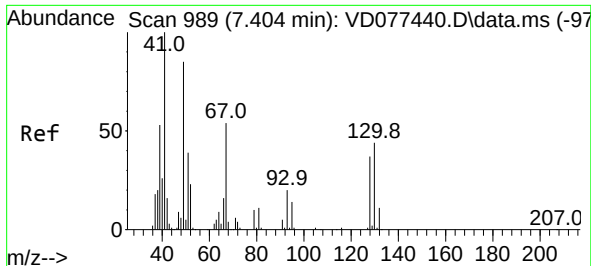
Delta R.T. 0.000 min

Lab File: VD077449.D

Acq: 30 Oct 2023 16:00

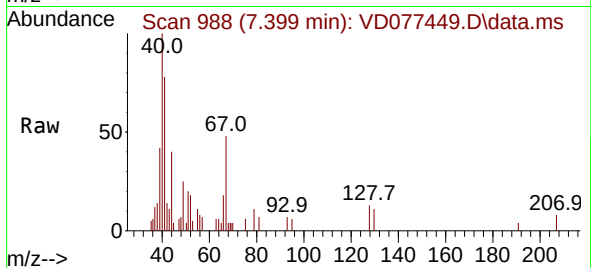
Tgt Ion: 78	Resp: 61450
Ion Ratio	Lower Upper
78 100	
77 25.9	19.4 29.0





#41
Methacrylonitrile
Concen: 3.932 ug/l
RT: 7.399 min Scan# 911
Delta R.T. -0.006 min
Lab File: VD077449.D
Acq: 30 Oct 2023 16:00

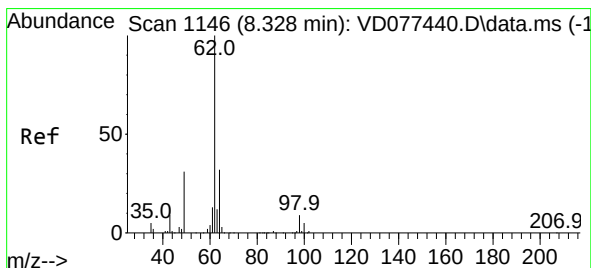
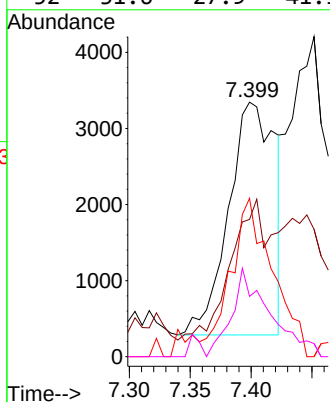
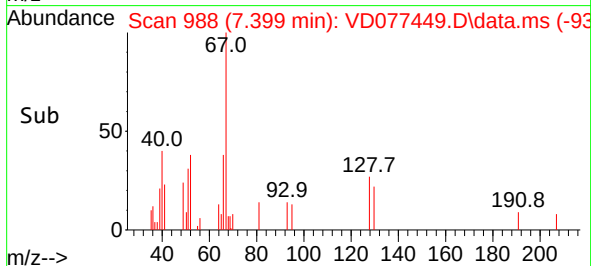
Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2023



Tgt Ion: 41 Resp: 809
Ion Ratio Lower Upper
41 100
39 48.2 34.0 51.0
67 61.8 77.0 115.4
52 31.6 27.9 41.9

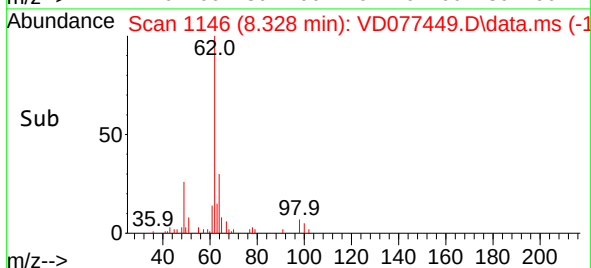
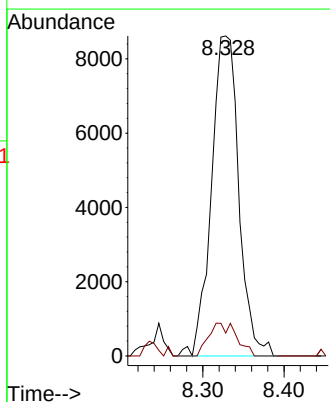
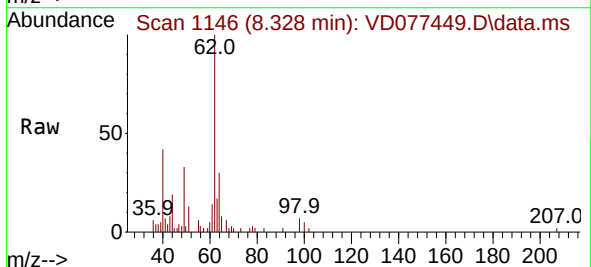
Manual Integrations
APPROVED

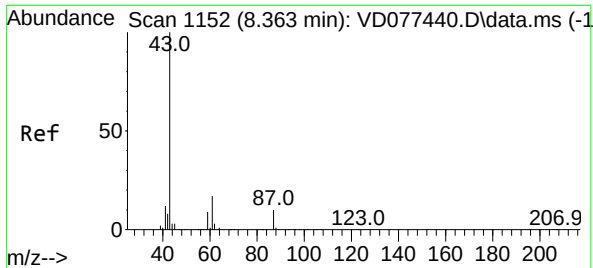
Reviewed By :John Carlone 10/31/2023
Supervised By :Mahesh Dadoda 10/31/2023



#42
1,2-Dichloroethane
Concen: 4.002 ug/l
RT: 8.328 min Scan# 1146
Delta R.T. 0.000 min
Lab File: VD077449.D
Acq: 30 Oct 2023 16:00

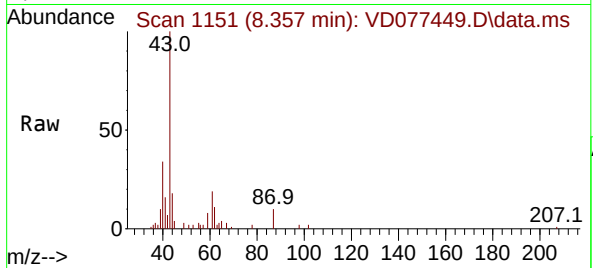
Tgt Ion: 62 Resp: 20263
Ion Ratio Lower Upper
62 100
98 10.5 0.0 25.4





#43
Isopropyl Acetate
Concen: 3.748 ug/l
RT: 8.357 min Scan# 1151
Delta R.T. -0.006 min
Lab File: VD077449.D
Acq: 30 Oct 2023 16:00

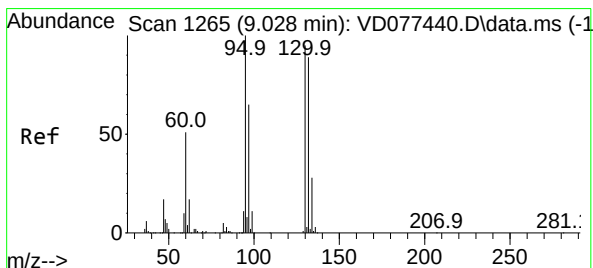
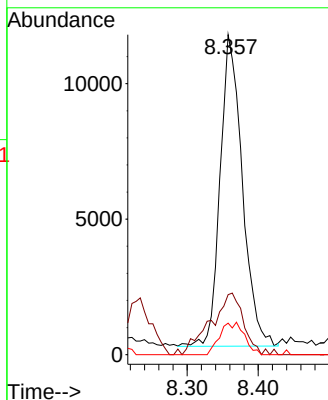
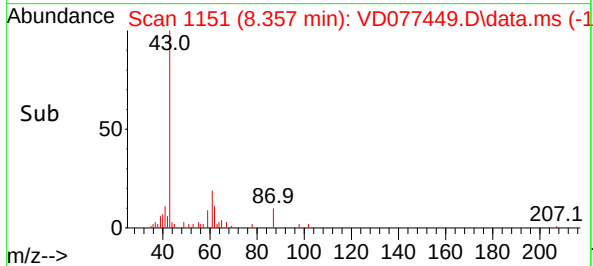
Instrument : MSVOA_D
ClientSampleId : LOD-MDL-SOIL-01-QT4-2023



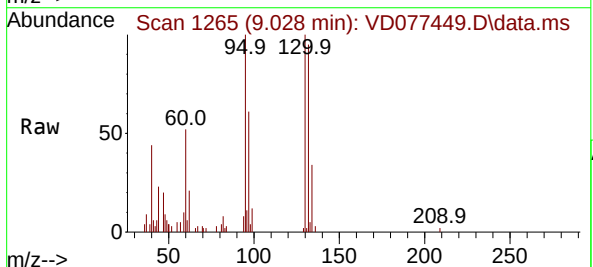
Tgt Ion: 43 Resp: 24889
Ion Ratio Lower Upper
43 100
61 29.2 31.4 47.0
87 11.4 14.9 22.3

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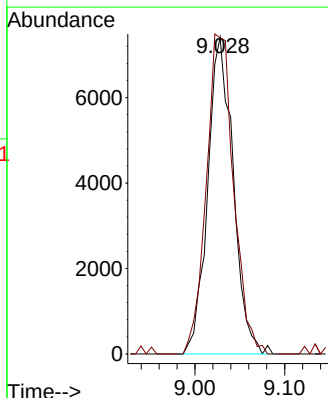
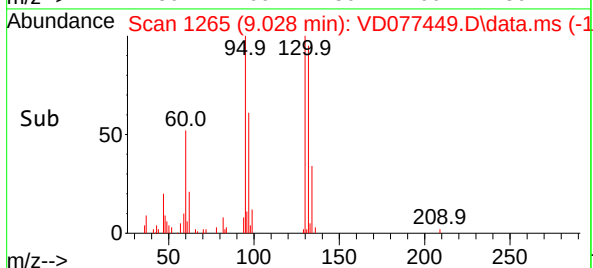
Reviewed By :John Carlone 10/31/2023
Supervised By :Mahesh Dadoda 10/31/2023

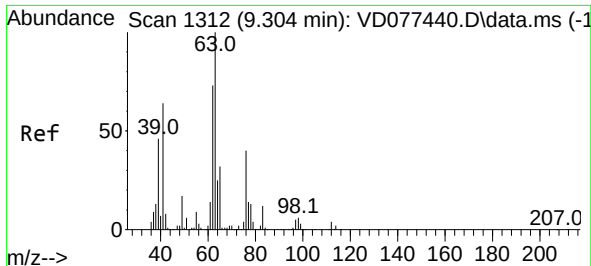


#44
Trichloroethene
Concen: 3.735 ug/l
RT: 9.028 min Scan# 1265
Delta R.T. 0.000 min
Lab File: VD077449.D
Acq: 30 Oct 2023 16:00



Tgt Ion:130 Resp: 14625
Ion Ratio Lower Upper
130 100
95 99.8 0.0 179.2





#45

1,2-Dichloropropane

Concen: 3.887 ug/l

RT: 9.304 min Scan# 1312

Delta R.T. 0.000 min

Lab File: VD077449.D

Acq: 30 Oct 2023 16:00

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2023

Tgt Ion: 63 Resp: 18290

Ion Ratio Lower Upper

63 100

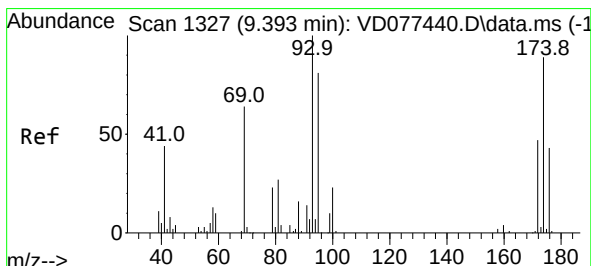
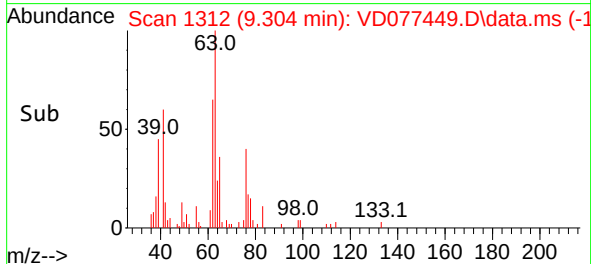
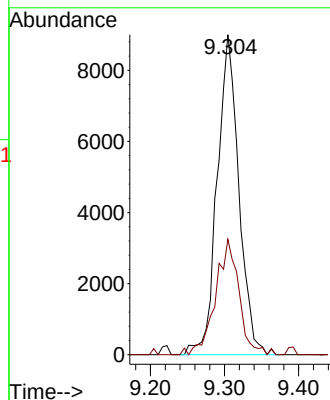
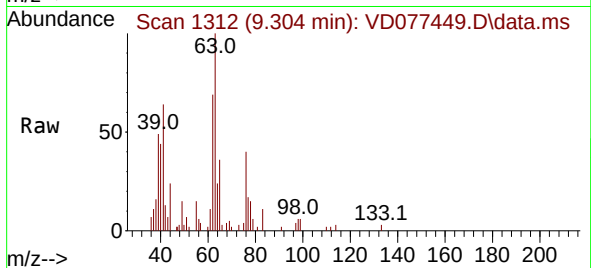
65 36.0 24.5 36.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/31/2023

Supervised By :Mahesh Dadoda 10/31/2023



#46

Dibromomethane

Concen: 3.693 ug/l

RT: 9.399 min Scan# 1328

Delta R.T. 0.006 min

Lab File: VD077449.D

Acq: 30 Oct 2023 16:00

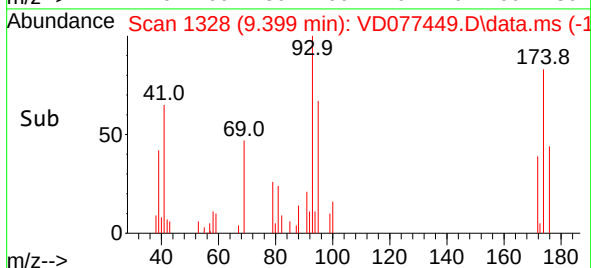
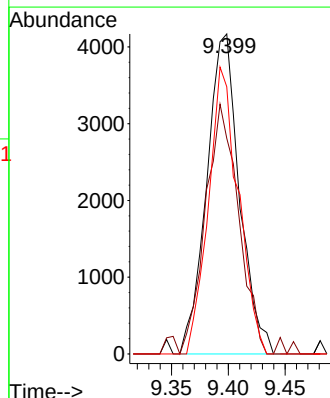
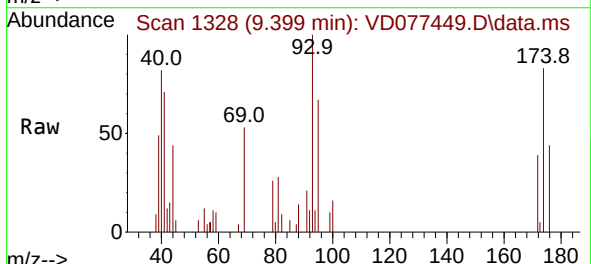
Tgt Ion: 93 Resp: 8365

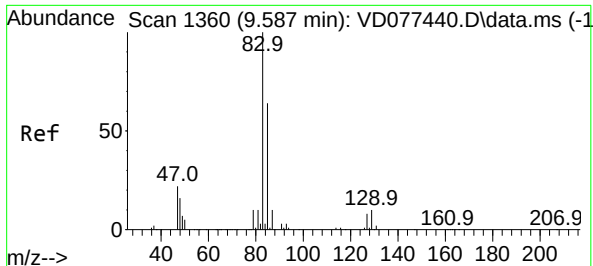
Ion Ratio Lower Upper

93 100

95 80.7 67.7 101.5

174 81.9 85.4 128.2#





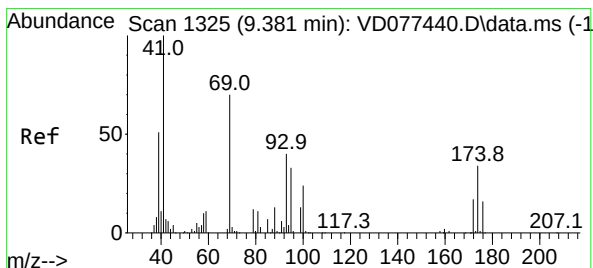
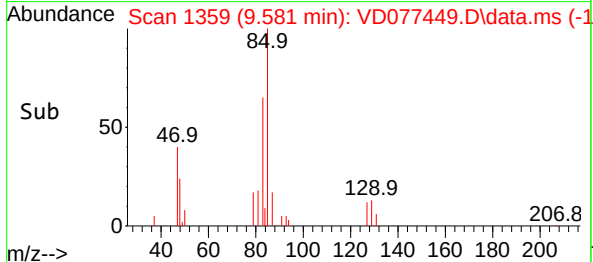
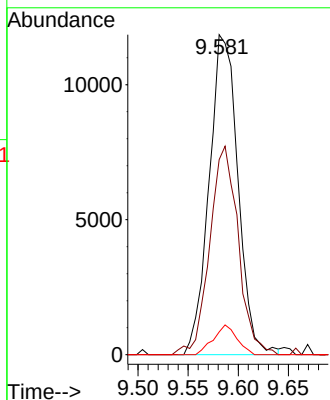
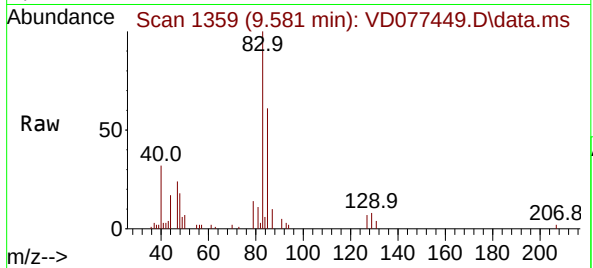
#47
Bromodichloromethane
Concen: 3.962 ug/l
RT: 9.581 min Scan# 1359
Delta R.T. -0.006 min
Lab File: VD077449.D
Acq: 30 Oct 2023 16:00

Instrument : MSVOA_D
ClientSampleId : LOD-MDL-SOIL-01-QT4-2023

Tgt Ion: 83 Resp: 23719
Ion Ratio Lower Upper
83 100
85 61.0 50.2 75.4
127 7.1 6.3 9.5

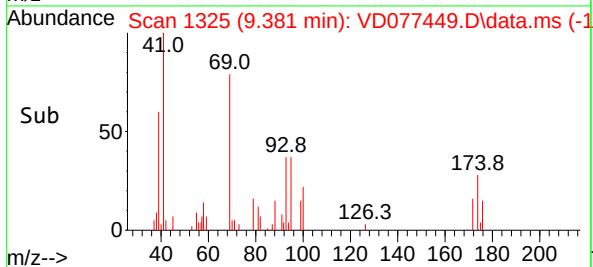
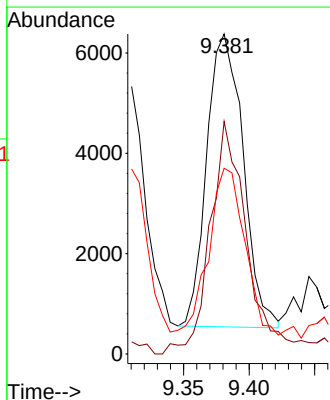
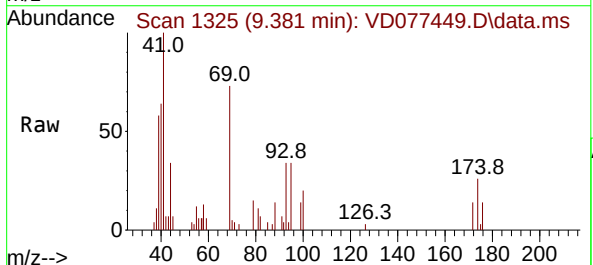
Manual Integrations
APPROVED

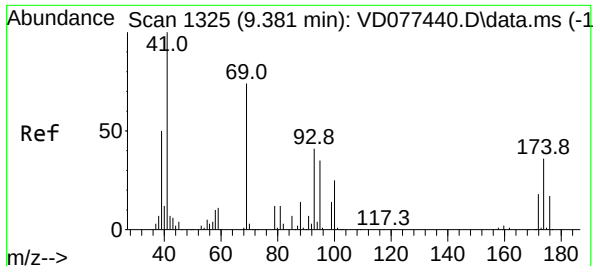
Reviewed By :John Carlone 10/31/2023
Supervised By :Mahesh Dadoda 10/31/2023



#48
Methyl methacrylate
Concen: 3.545 ug/l
RT: 9.381 min Scan# 1325
Delta R.T. 0.000 min
Lab File: VD077449.D
Acq: 30 Oct 2023 16:00

Tgt Ion: 41 Resp: 11236
Ion Ratio Lower Upper
41 100
69 81.5 102.2 153.2#
39 57.0 41.4 62.2





#49

1,4-Dioxane

Concen: 71.653 ug/l

RT: 9.381 min Scan# 1325

Delta R.T. 0.000 min

Lab File: VD077449.D

Acq: 30 Oct 2023 16:00

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2023

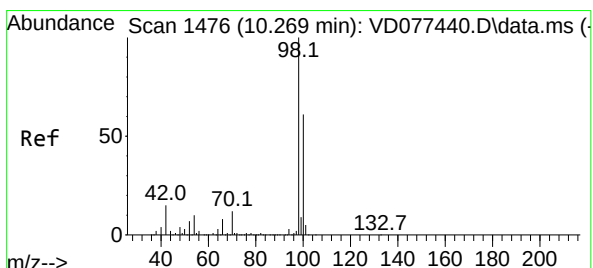
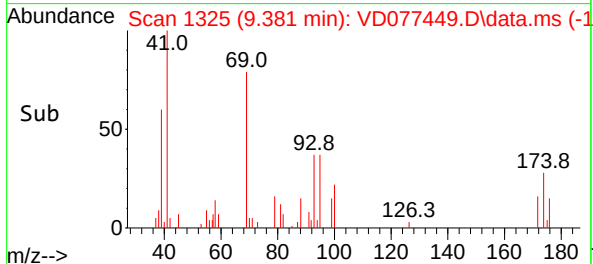
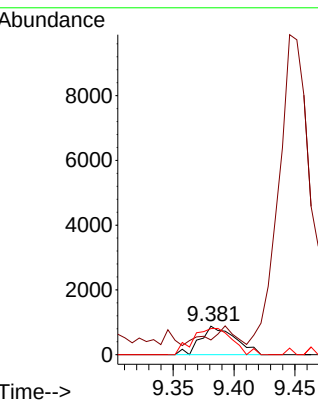
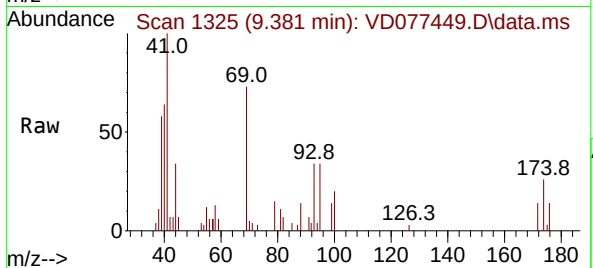
Tgt Ion: 88 Resp: 1744
 Ion Ratio Lower Upper
 88 100
 43 49.2 19.0 28.6
 58 105.7 43.5 65.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/31/2023

Supervised By :Mahesh Dadoda 10/31/2023



#50

Toluene-d8

Concen: 47.734 ug/l

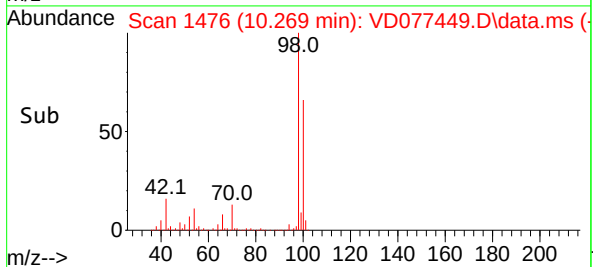
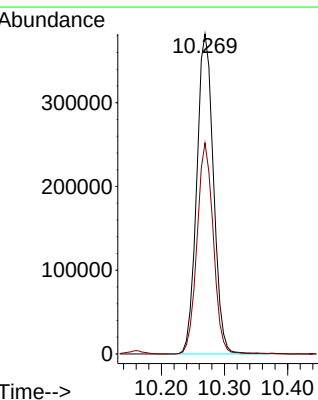
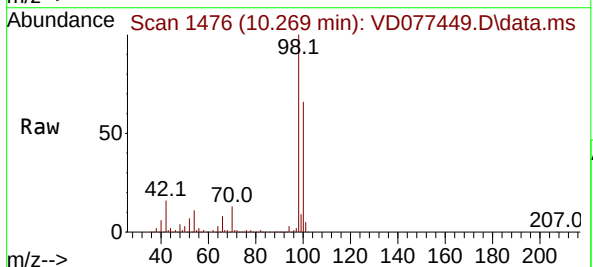
RT: 10.269 min Scan# 1476

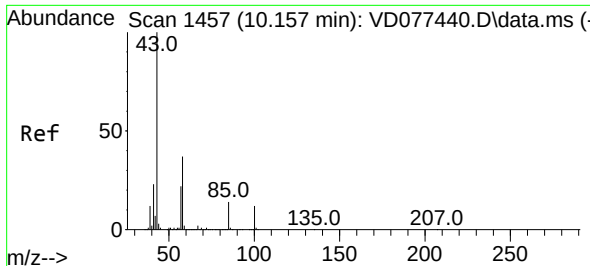
Delta R.T. 0.000 min

Lab File: VD077449.D

Acq: 30 Oct 2023 16:00

Tgt Ion: 98 Resp: 701132
 Ion Ratio Lower Upper
 98 100
 100 63.9 50.3 75.5





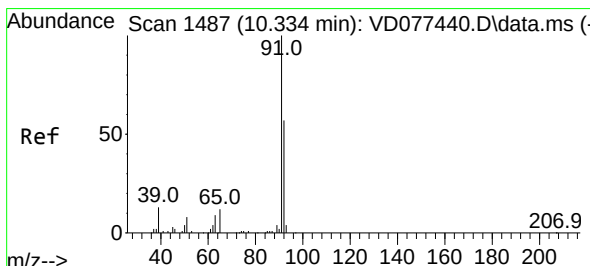
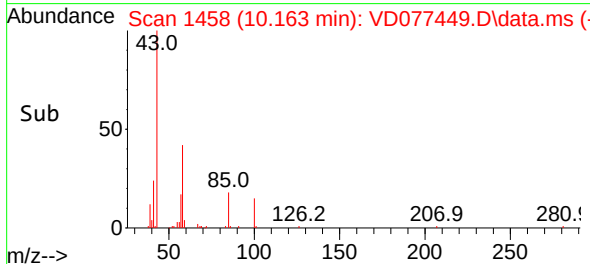
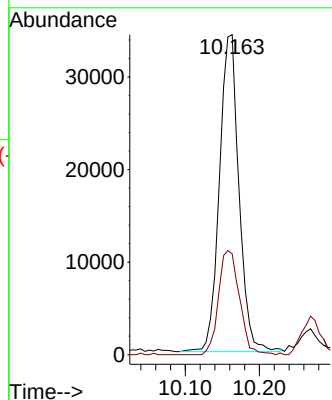
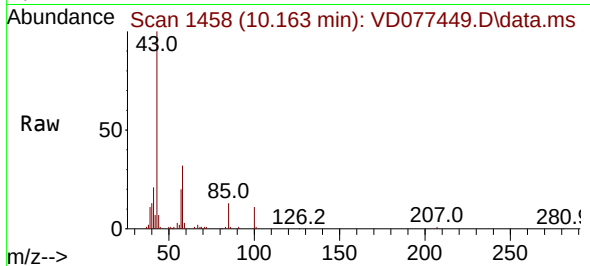
#51
4-Methyl-2-Pentanone
Concen: 19.236 ug/l
RT: 10.163 min Scan# 1458
Delta R.T. 0.006 min
Lab File: VD077449.D
Acq: 30 Oct 2023 16:00

Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2023

Tgt Ion: 43 Resp: 6286
Ion Ratio Lower Upper
43 100
58 35.1 38.9 58.3

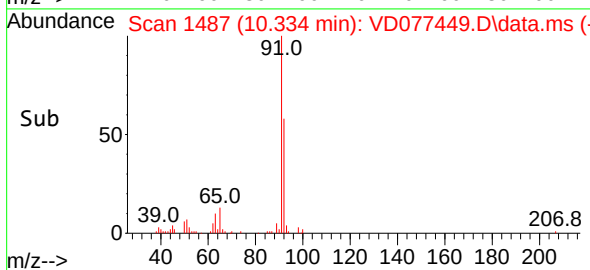
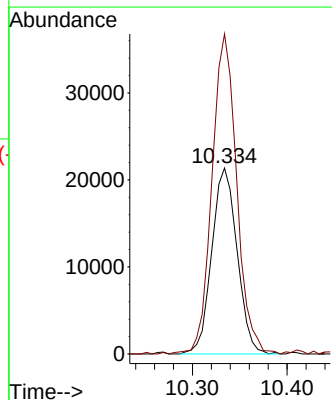
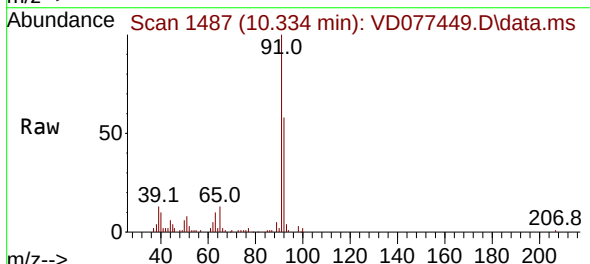
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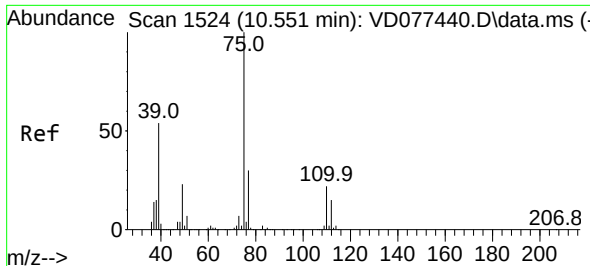
Reviewed By :John Carlone 10/31/2023
Supervised By :Mahesh Dadoda 10/31/2023



#52
Toluene
Concen: 4.078 ug/l
RT: 10.334 min Scan# 1487
Delta R.T. 0.000 min
Lab File: VD077449.D
Acq: 30 Oct 2023 16:00

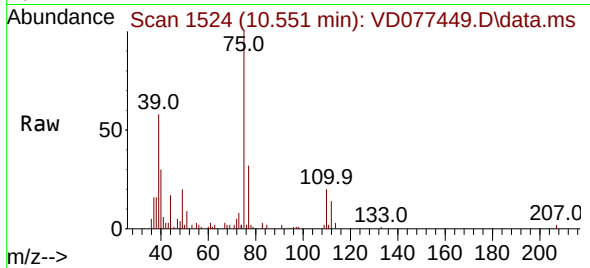
Tgt Ion: 92 Resp: 39743
Ion Ratio Lower Upper
92 100
91 167.8 143.0 214.4





#53
 t-1,3-Dichloropropene
 Concen: 3.802 ug/l
 RT: 10.551 min Scan# 1524
 Delta R.T. 0.000 min
 Lab File: VD077449.D
 Acq: 30 Oct 2023 16:00

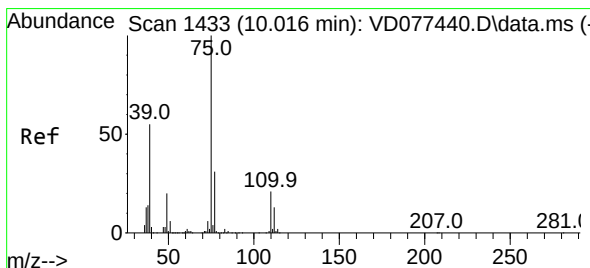
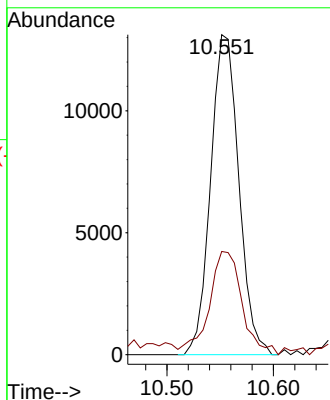
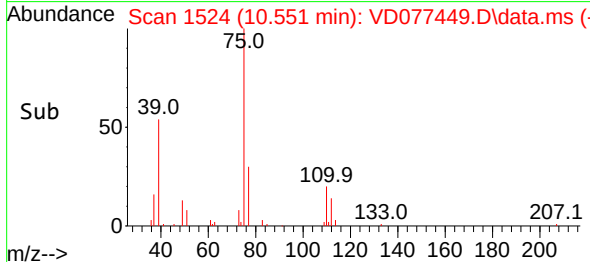
Instrument :
 MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2023



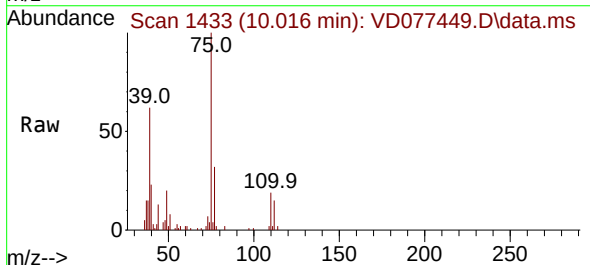
Tgt Ion: 75 Resp: 24104
 Ion Ratio Lower Upper
 75 100
 77 32.3 25.3 37.9

Manual Integrations
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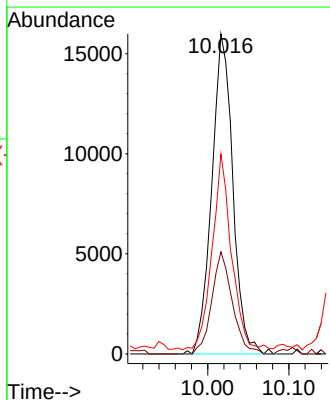
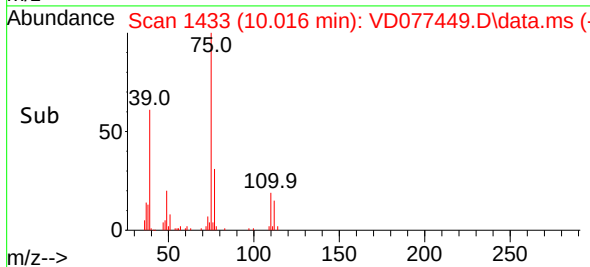
Reviewed By :John Carlone 10/31/2023
 Supervised By :Mahesh Dadoda 10/31/2023

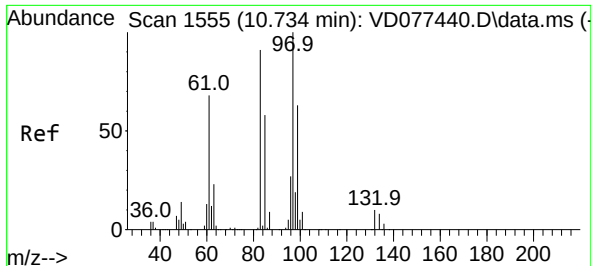


#54
 cis-1,3-Dichloropropene
 Concen: 3.956 ug/l
 RT: 10.016 min Scan# 1433
 Delta R.T. 0.000 min
 Lab File: VD077449.D
 Acq: 30 Oct 2023 16:00



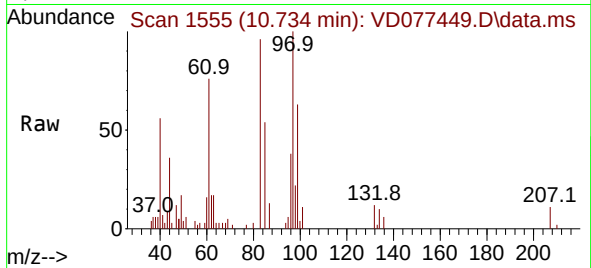
Tgt Ion: 75 Resp: 28862
 Ion Ratio Lower Upper
 75 100
 77 31.9 25.5 38.3
 39 60.6 22.1 33.1#





#55
1,1,2-Trichloroethane
Concen: 3.812 ug/l
RT: 10.734 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VD077449.D
Acq: 30 Oct 2023 16:00

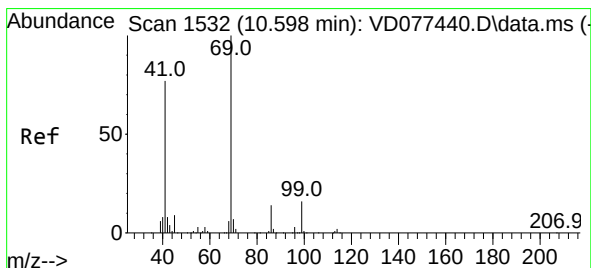
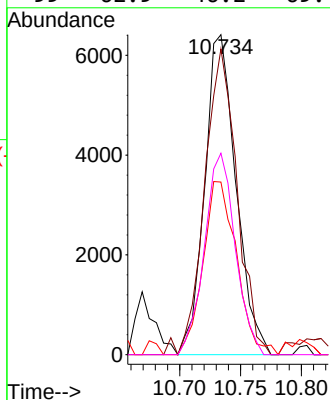
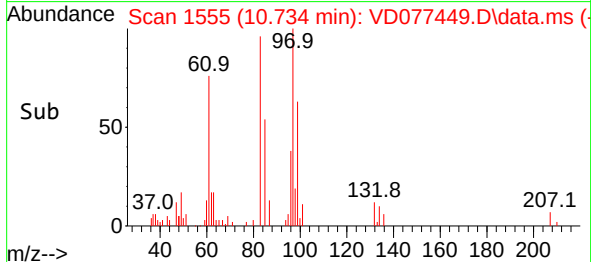
Instrument : MSVOA_D
ClientSampleId : LOD-MDL-SOIL-01-QT4-2023



Tgt Ion	Ratio	Lower	Upper
97	100		
83	95.6	65.8	98.6
85	53.9	45.7	68.5
99	62.9	46.2	69.4

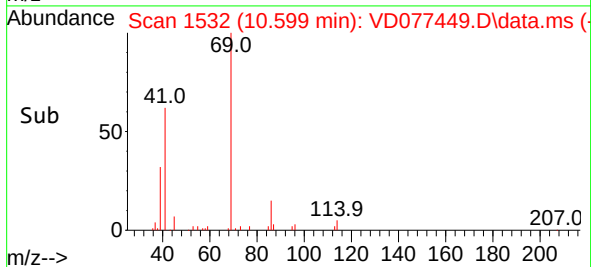
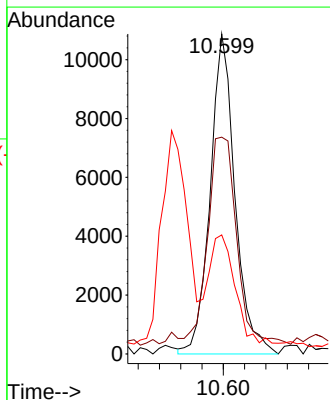
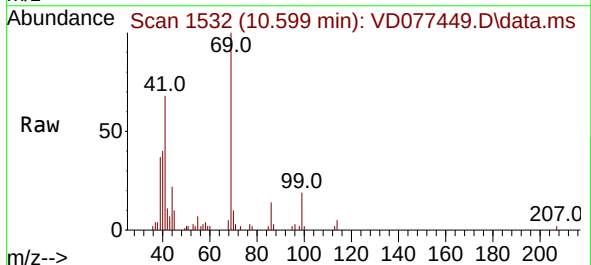
Manual Integrations
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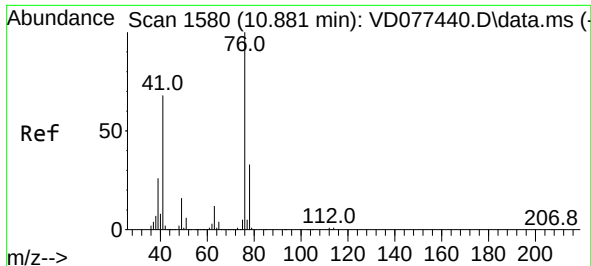
Reviewed By :John Carlone 10/31/2023
Supervised By :Mahesh Dadoda 10/31/2023



#56
Ethyl methacrylate
Concen: 3.917 ug/l
RT: 10.599 min Scan# 1532
Delta R.T. 0.000 min
Lab File: VD077449.D
Acq: 30 Oct 2023 16:00

Tgt Ion	Ratio	Lower	Upper
69	100		
41	75.2	39.1	58.7#
39	34.3	20.0	30.0#





#57

1,3-Dichloropropane

Concen: 3.827 ug/l

RT: 10.875 min Scan# 1580

Delta R.T. -0.006 min

Lab File: VD077449.D

Acq: 30 Oct 2023 16:00

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2023

Tgt Ion: 76 Resp: 2161

Ion Ratio Lower Upper

76 100

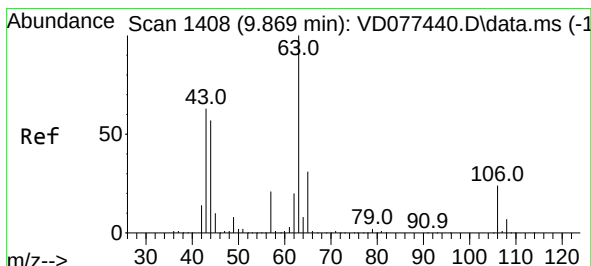
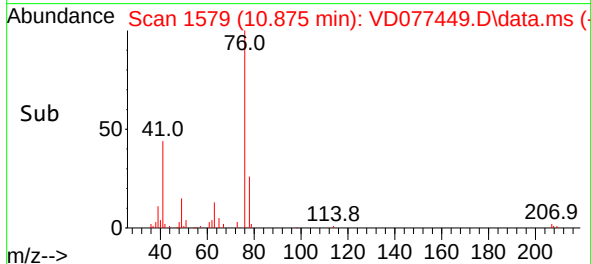
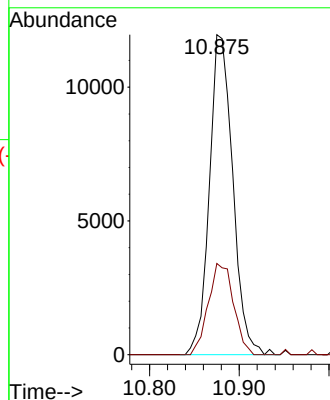
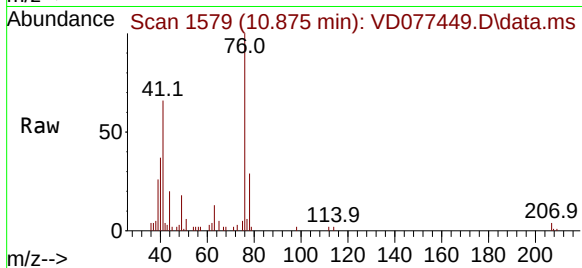
78 30.8 26.4 39.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/31/2023

Supervised By :Mahesh Dadoda 10/31/2023



#58

2-Chloroethyl Vinyl ether

Concen: 18.460 ug/l

RT: 9.869 min Scan# 1408

Delta R.T. 0.000 min

Lab File: VD077449.D

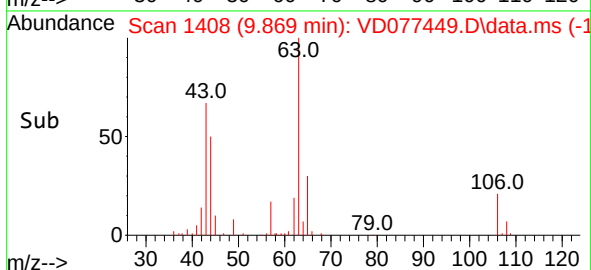
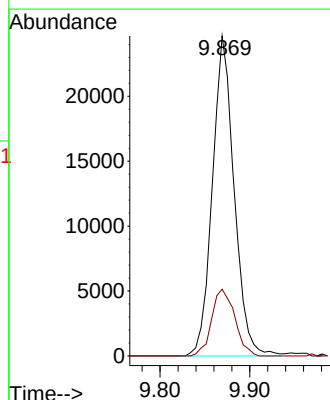
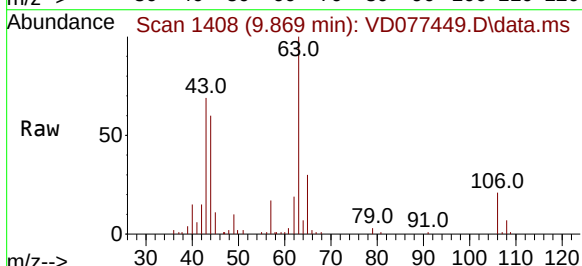
Acq: 30 Oct 2023 16:00

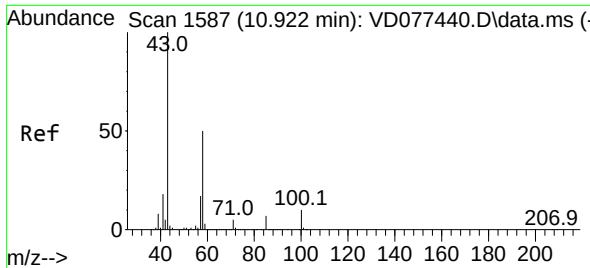
Tgt Ion: 63 Resp: 41524

Ion Ratio Lower Upper

63 100

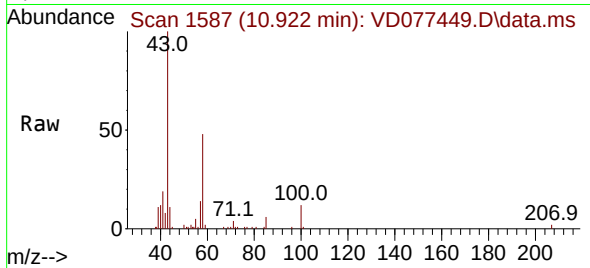
106 22.2 25.3 37.9#





#59
2-Hexanone
Concen: 19.781 ug/l
RT: 10.922 min Scan# 1587
Delta R.T. 0.000 min
Lab File: VD077449.D
Acq: 30 Oct 2023 16:00

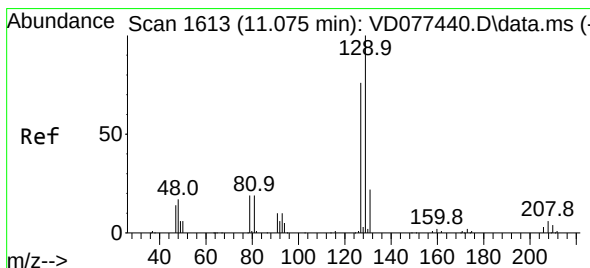
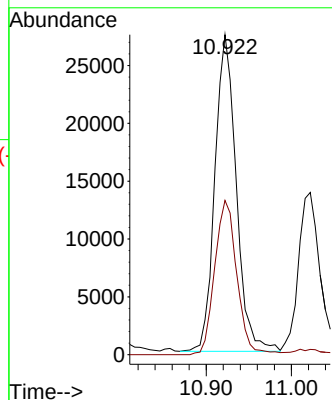
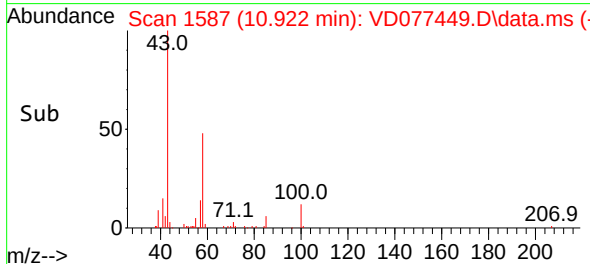
Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2023



Tgt Ion: 43 Resp: 47620
Ion Ratio Lower Upper
43 100
58 50.5 34.1 102.2

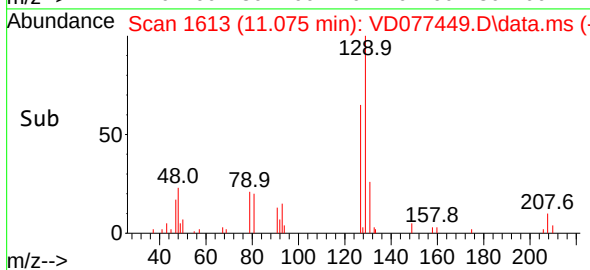
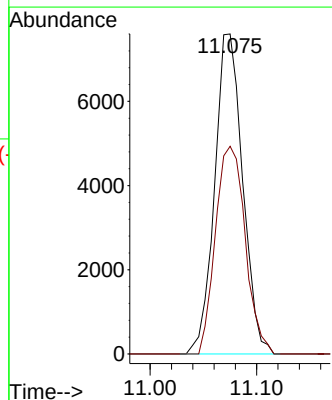
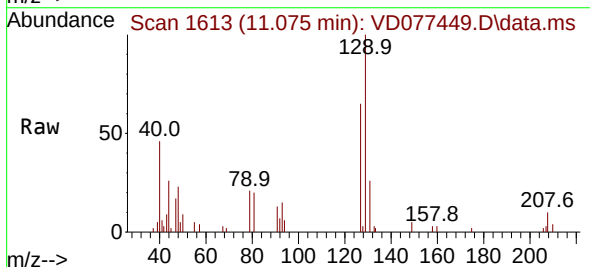
Manual Integrations
APPROVED

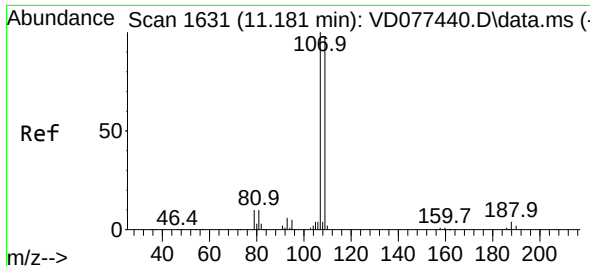
Reviewed By :John Carlone 10/31/2023
Supervised By :Mahesh Dadoda 10/31/2023



#60
Dibromochloromethane
Concen: 3.817 ug/l
RT: 11.075 min Scan# 1613
Delta R.T. 0.000 min
Lab File: VD077449.D
Acq: 30 Oct 2023 16:00

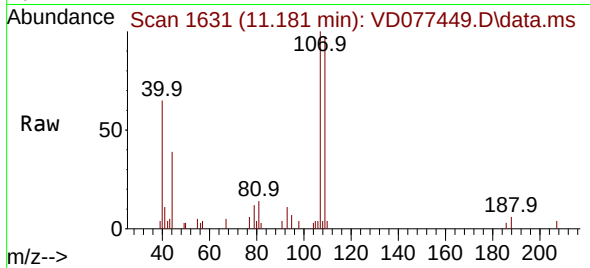
Tgt Ion:129 Resp: 13872
Ion Ratio Lower Upper
129 100
127 69.0 37.1 111.5





#61
1,2-Dibromoethane
Concen: 3.677 ug/l
RT: 11.181 min Scan# 1631
Delta R.T. 0.000 min
Lab File: VD077449.D
Acq: 30 Oct 2023 16:00

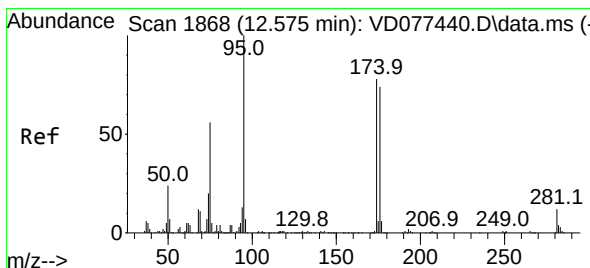
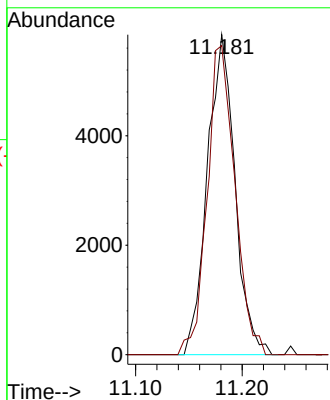
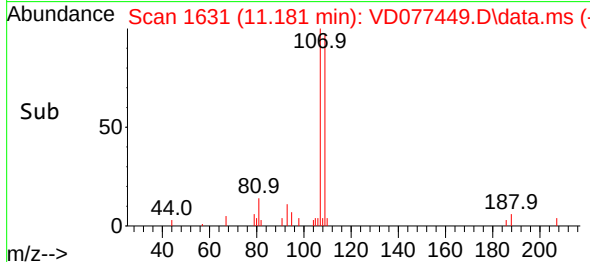
Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2023



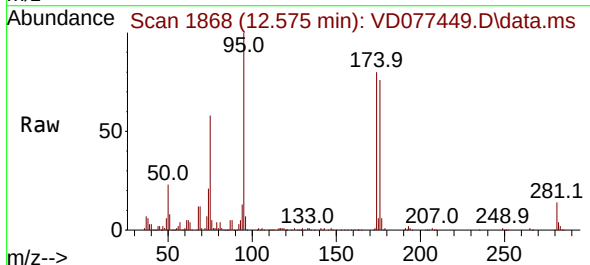
Tgt Ion:107 Resp: 10524
Ion Ratio Lower Upper
107 100
109 97.2 75.6 113.4

Manual Integrations
APPROVED

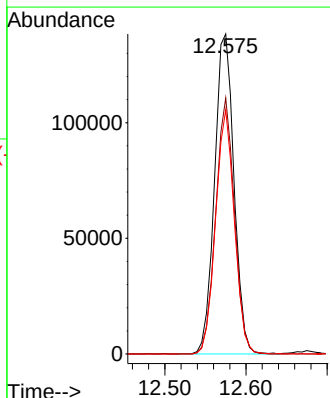
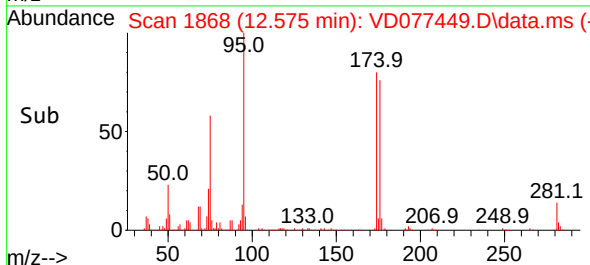
Reviewed By :John Carlone 10/31/2023
Supervised By :Mahesh Dadoda 10/31/2023

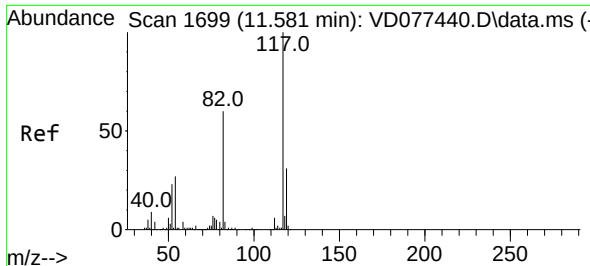


#62
4-Bromofluorobenzene
Concen: 46.613 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. 0.000 min
Lab File: VD077449.D
Acq: 30 Oct 2023 16:00



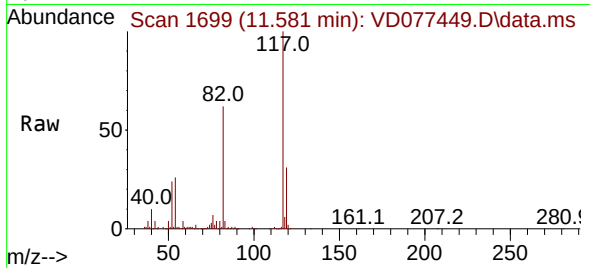
Tgt Ion: 95 Resp: 230597
Ion Ratio Lower Upper
95 100
174 77.3 0.0 201.8
176 73.5 0.0 191.8





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.581 min Scan# 1699
Delta R.T. 0.000 min
Lab File: VD077449.D
Acq: 30 Oct 2023 16:00

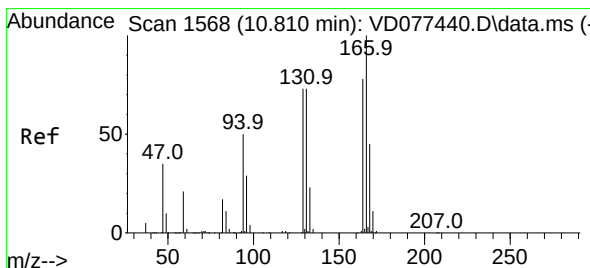
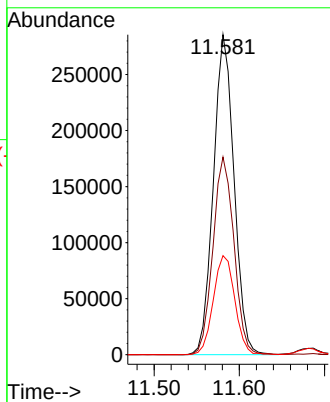
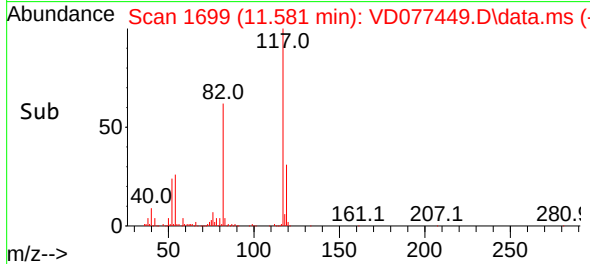
Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2023



Tgt Ion:117 Resp: 48070
Ion Ratio Lower Upper
117 100
82 61.7 38.3 57.5
119 31.0 25.0 37.4

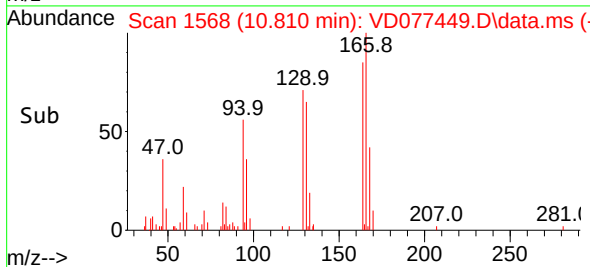
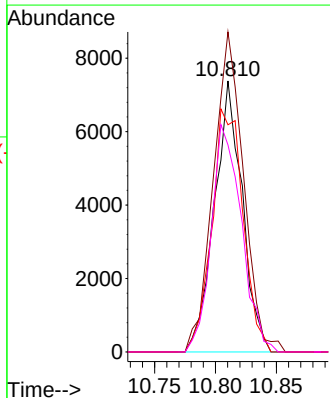
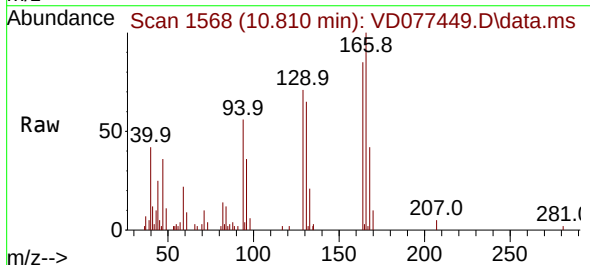
Manual Integrations
APPROVED

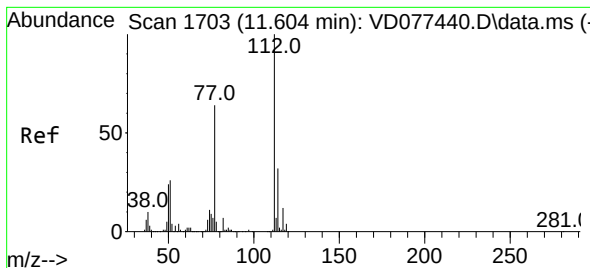
Reviewed By :John Carlone 10/31/2023
Supervised By :Mahesh Dadoda 10/31/2023



#64
Tetrachloroethene
Concen: 3.833 ug/l
RT: 10.810 min Scan# 1568
Delta R.T. 0.000 min
Lab File: VD077449.D
Acq: 30 Oct 2023 16:00

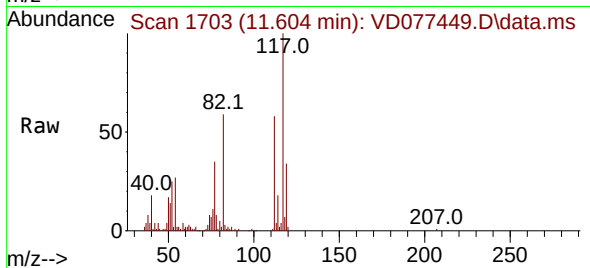
Tgt Ion:164 Resp: 11730
Ion Ratio Lower Upper
164 100
166 118.1 99.2 148.8
129 83.8 68.4 102.6
131 76.4 63.8 95.8





#65
Chlorobenzene
Concen: 3.888 ug/l
RT: 11.604 min Scan# 1703
Delta R.T. 0.000 min
Lab File: VD077449.D
Acq: 30 Oct 2023 16:00

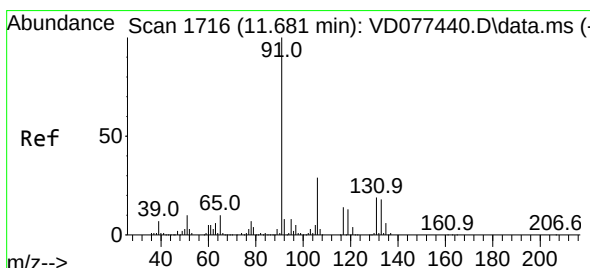
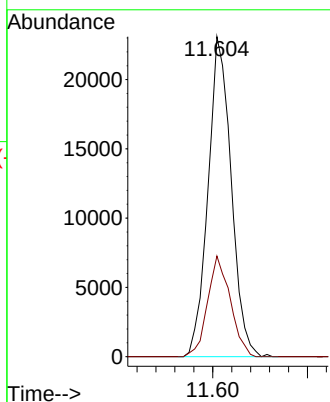
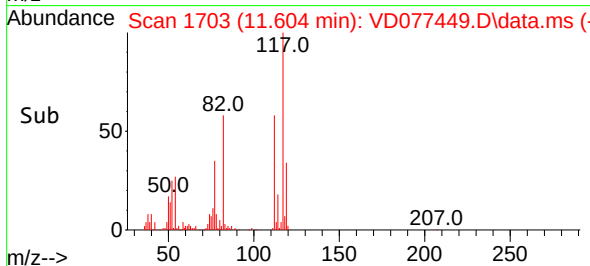
Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2023



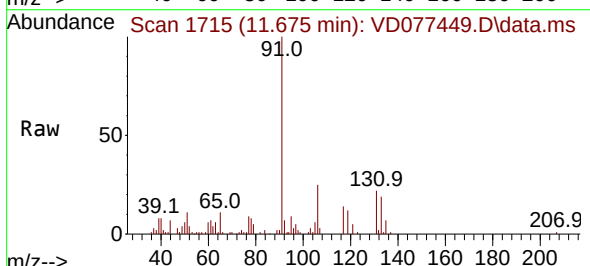
Tgt Ion:112 Resp: 3915
Ion Ratio Lower Upper
112 100
114 31.4 25.1 37.7

Manual Integrations
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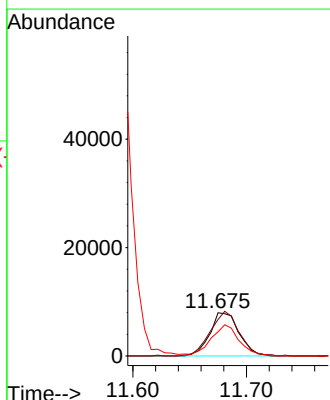
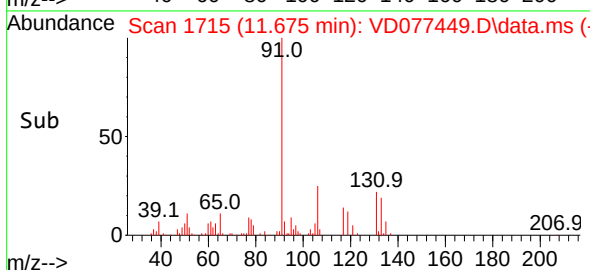
Reviewed By :John Carlone 10/31/2023
Supervised By :Mahesh Dadoda 10/31/2023

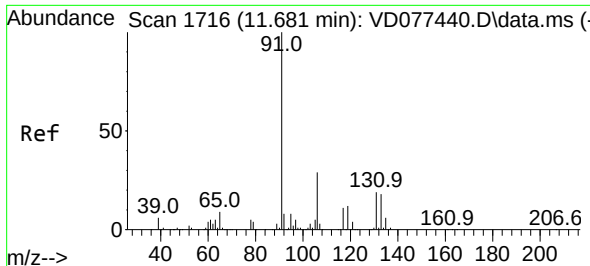


#66
1,1,1,2-Tetrachloroethane
Concen: 3.743 ug/l
RT: 11.675 min Scan# 1715
Delta R.T. -0.006 min
Lab File: VD077449.D
Acq: 30 Oct 2023 16:00



Tgt Ion:131 Resp: 14246
Ion Ratio Lower Upper
131 100
133 102.1 48.5 145.5
119 70.0 35.6 106.9





#67

Ethyl Benzene

Concen: 4.099 ug/l

RT: 11.687 min Scan# 1716

Delta R.T. 0.006 min

Lab File: VD077449.D

Acq: 30 Oct 2023 16:00

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2023

Tgt Ion: 91 Resp: 7943

Ion Ratio Lower Upper

91 100

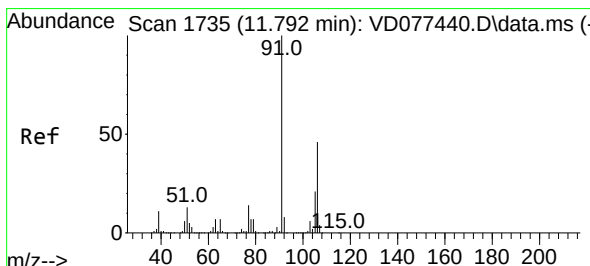
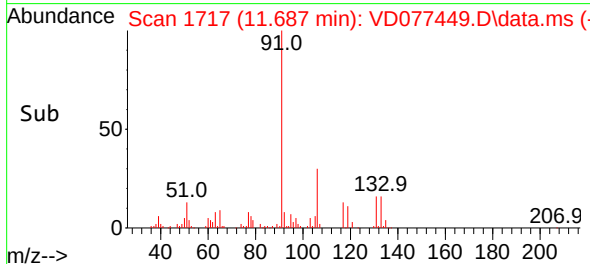
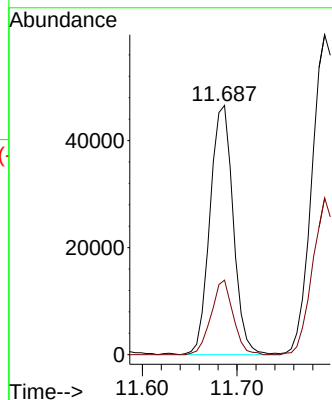
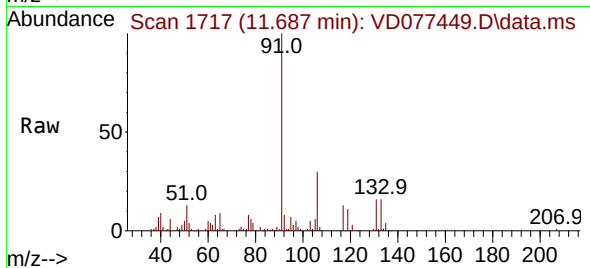
106 29.9 26.5 39.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/31/2023

Supervised By :Mahesh Dadoda 10/31/2023



#68

m/p-Xylenes

Concen: 7.762 ug/l

RT: 11.793 min Scan# 1735

Delta R.T. 0.000 min

Lab File: VD077449.D

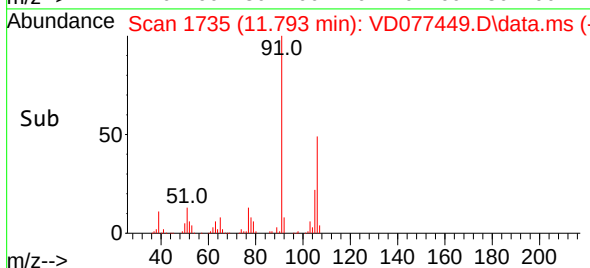
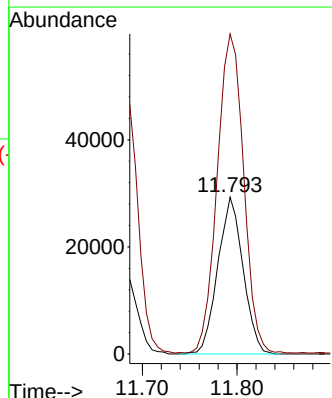
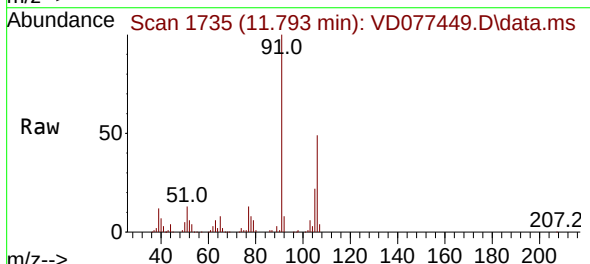
Acq: 30 Oct 2023 16:00

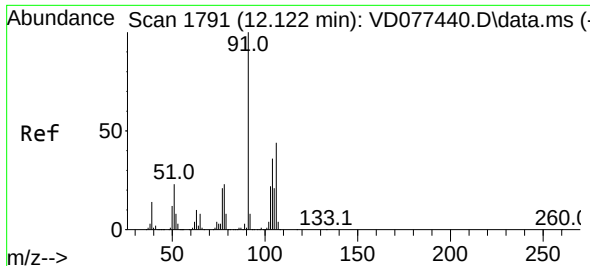
Tgt Ion:106 Resp: 54311

Ion Ratio Lower Upper

106 100

91 213.1 147.0 220.6





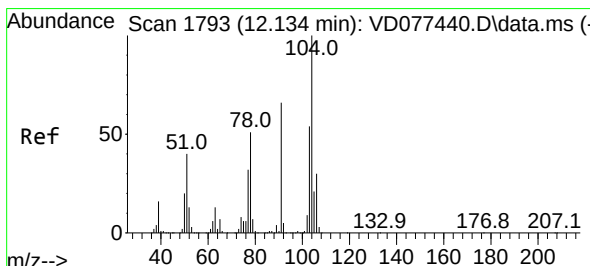
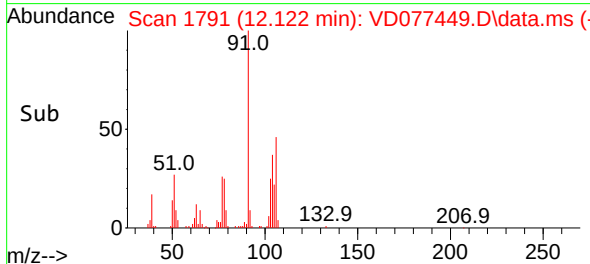
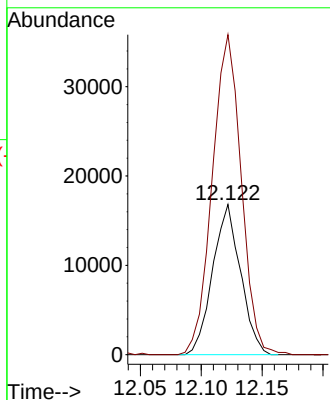
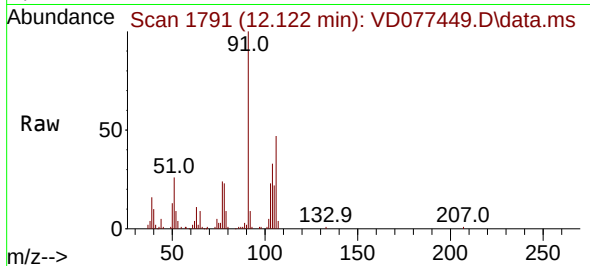
#69
o-Xylene
Concen: 4.003 ug/l
RT: 12.122 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VD077449.D
Acq: 30 Oct 2023 16:00

Instrument : MSVOA_D
ClientSampleId : LOD-MDL-SOIL-01-QT4-2023

Tgt Ion:106 Resp: 26832
Ion Ratio Lower Upper
106 100
91 221.1 97.9 293.6

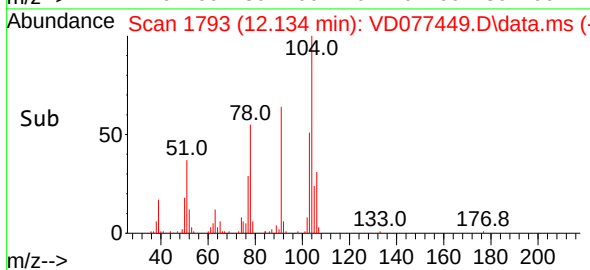
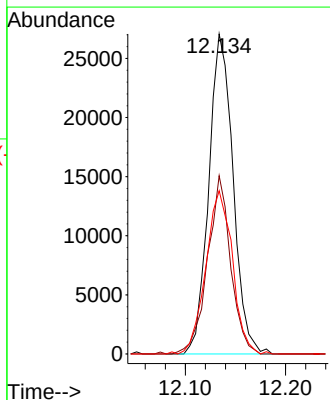
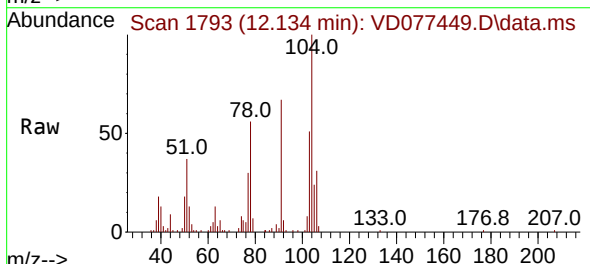
Manual Integrations
APPROVED

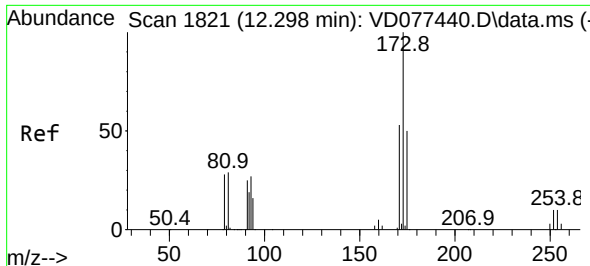
Reviewed By :John Carlone 10/31/2023
Supervised By :Mahesh Dadoda 10/31/2023



#70
Styrene
Concen: 3.943 ug/l
RT: 12.134 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VD077449.D
Acq: 30 Oct 2023 16:00

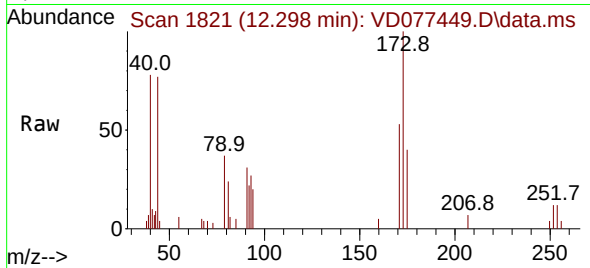
Tgt Ion:104 Resp: 45585
Ion Ratio Lower Upper
104 100
78 52.9 33.2 49.8#
103 55.9 43.6 65.4





#71
Bromoform
Concen: 3.802 ug/l
RT: 12.298 min Scan# 1821
Delta R.T. 0.000 min
Lab File: VD077449.D
Acq: 30 Oct 2023 16:00

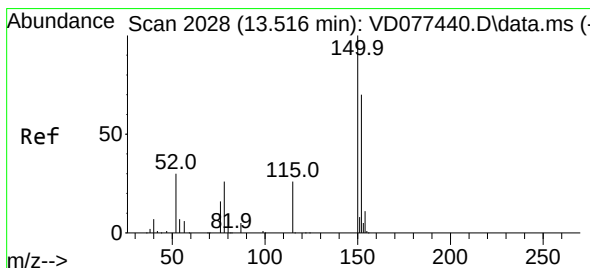
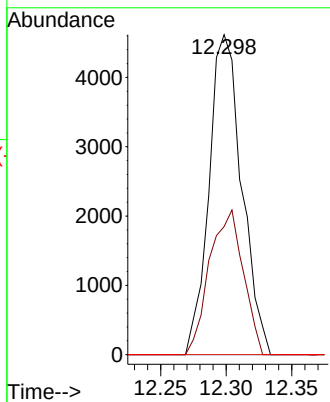
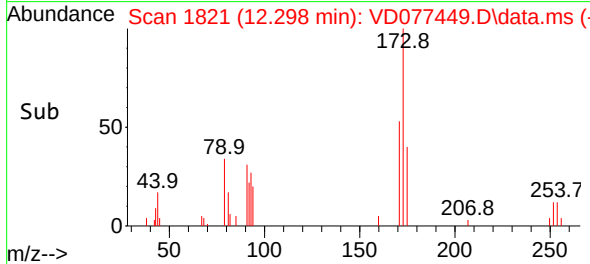
Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2023



Tgt Ion:173 Resp: 802
Ion Ratio Lower Upper
173 100
175 46.6 24.6 73.8
254 0.0 0.0 0.0

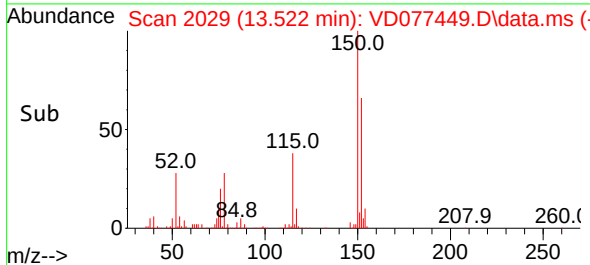
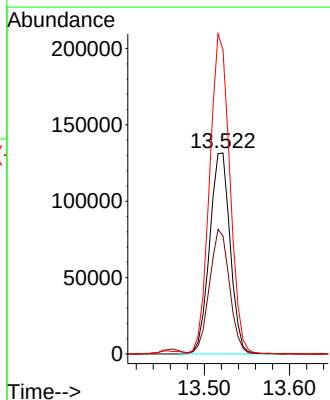
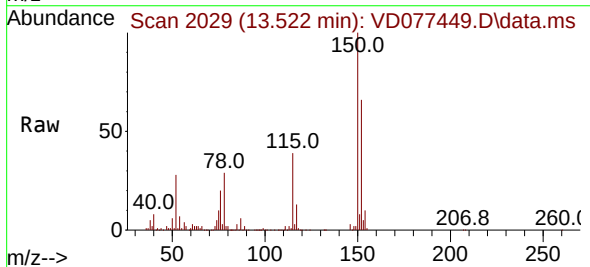
Manual Integrations
APPROVED

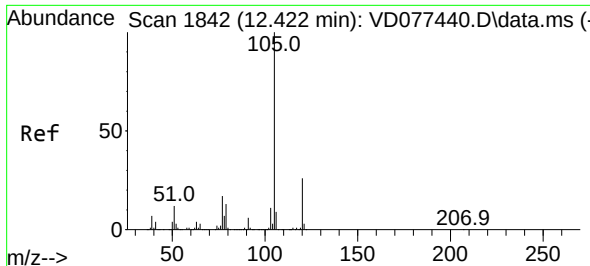
Reviewed By :John Carlone 10/31/2023
Supervised By :Mahesh Dadoda 10/31/2023



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.522 min Scan# 2029
Delta R.T. 0.006 min
Lab File: VD077449.D
Acq: 30 Oct 2023 16:00

Tgt Ion:152 Resp: 220513
Ion Ratio Lower Upper
152 100
115 60.8 27.1 81.3
150 156.9 0.0 353.6





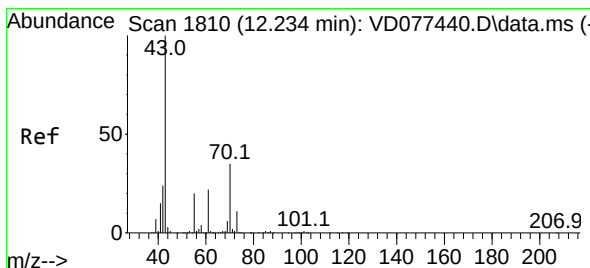
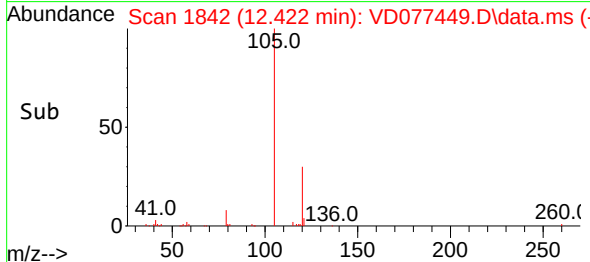
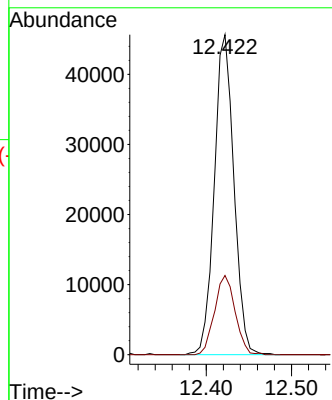
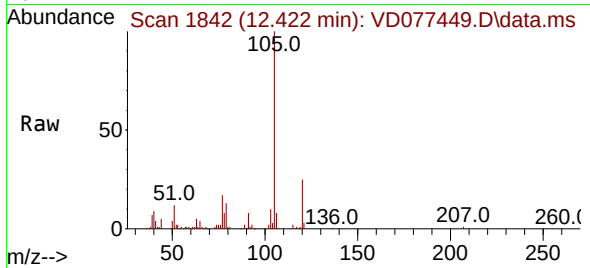
#73
Isopropylbenzene
Concen: 4.052 ug/l
RT: 12.422 min Scan# 1842
Delta R.T. 0.000 min
Lab File: VD077449.D
Acq: 30 Oct 2023 16:00

Instrument : MSVOA_D
ClientSampleId : LOD-MDL-SOIL-01-QT4-2023

Tgt Ion:105 Resp: 7284
Ion Ratio Lower Upper
105 100
120 26.0 14.3 42.9

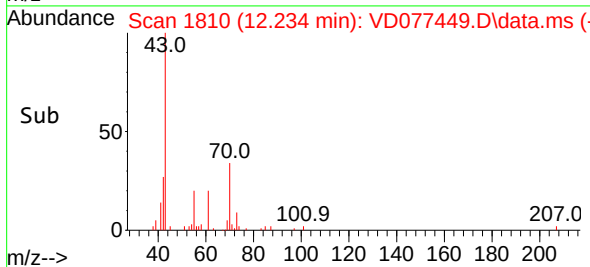
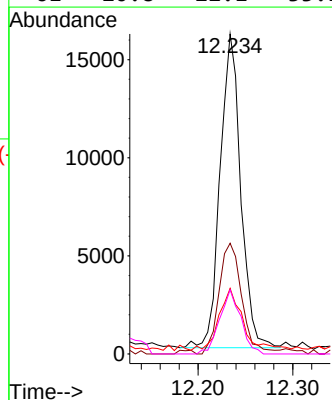
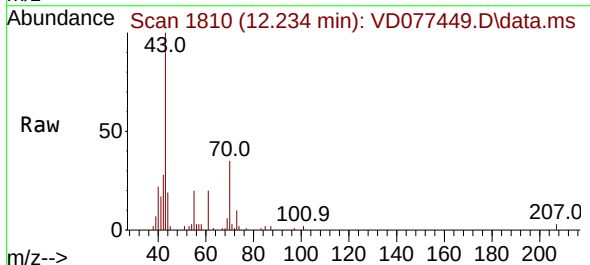
Manual Integrations
APPROVED

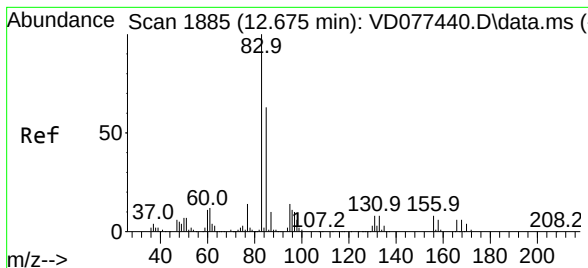
Reviewed By :John Carlone 10/31/2023
Supervised By :Mahesh Dadoda 10/31/2023



#74
N-ethyl acetate
Concen: 3.817 ug/l
RT: 12.234 min Scan# 1810
Delta R.T. 0.000 min
Lab File: VD077449.D
Acq: 30 Oct 2023 16:00

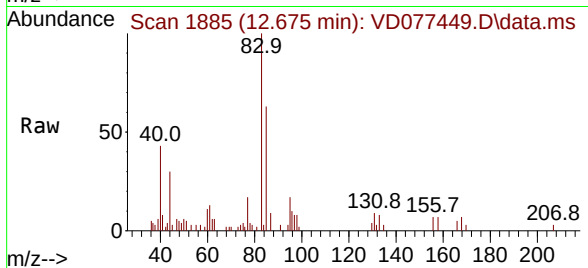
Tgt Ion: 43 Resp: 24306
Ion Ratio Lower Upper
43 100
70 38.8 45.0 67.4#
55 22.7 23.8 35.6#
61 20.8 22.1 33.1#





#75
1,1,2,2-Tetrachloroethane
Concen: 3.892 ug/l
RT: 12.675 min Scan# 1885
Delta R.T. 0.000 min
Lab File: VD077449.D
Acq: 30 Oct 2023 16:00

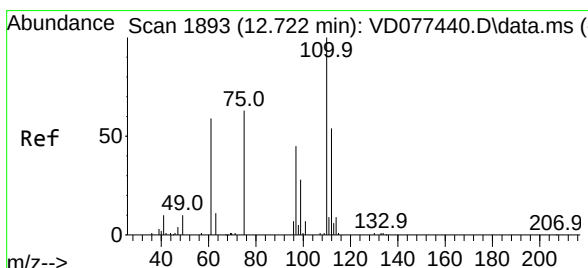
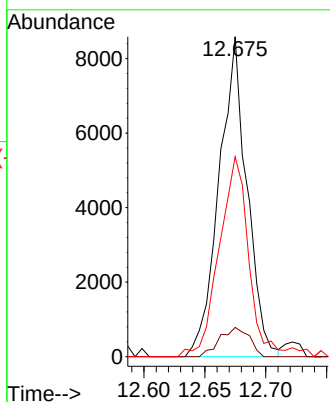
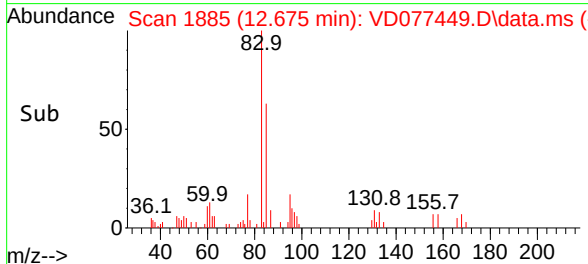
Instrument : MSVOA_D
ClientSampleId : LOD-MDL-SOIL-01-QT4-2023



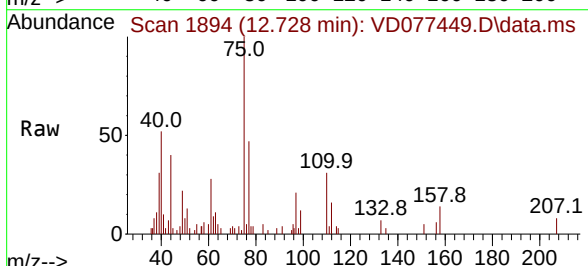
Tgt Ion: 83 Resp: 13710
Ion Ratio Lower Upper
83 100
131 9.6 5.1 15.3
85 65.5 32.6 97.8

Manual Integrations
APPROVED

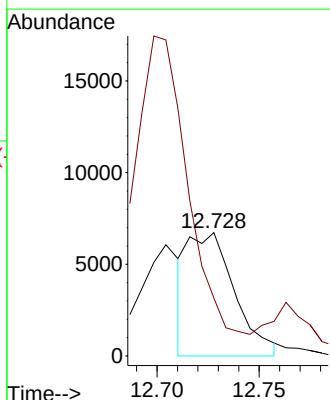
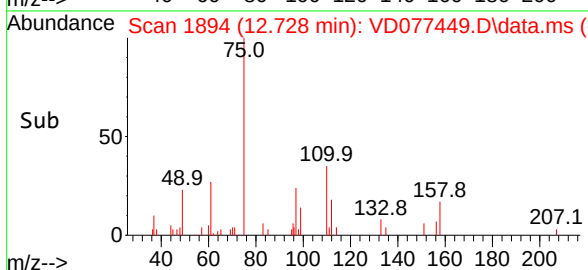
Reviewed By :John Carlone 10/31/2023
Supervised By :Mahesh Dadoda 10/31/2023

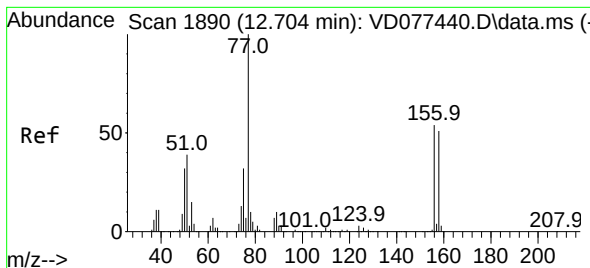


#76
1,2,3-Trichloropropane
Concen: 4.013 ug/l m
RT: 12.728 min Scan# 1894
Delta R.T. 0.006 min
Lab File: VD077449.D
Acq: 30 Oct 2023 16:00



Tgt Ion: 75 Resp: 10769
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0





#77

Bromobenzene

Concen: 3.920 ug/l

RT: 12.698 min Scan# 1889

Delta R.T. -0.006 min

Lab File: VD077449.D

Acq: 30 Oct 2023 16:00

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2023

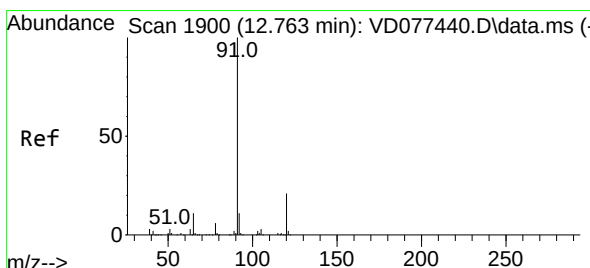
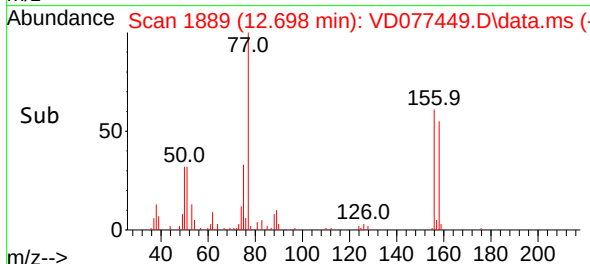
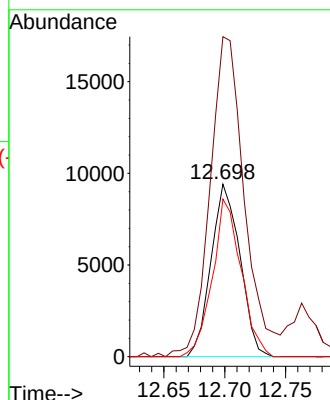
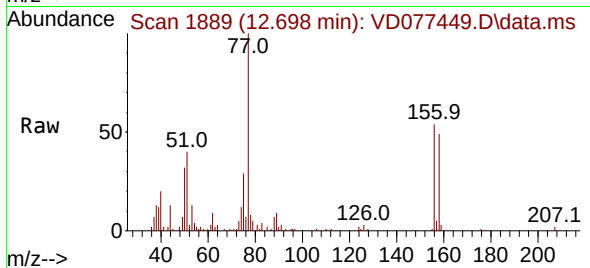
Tgt Ion:	156	Resp:	15514
Ion Ratio	Lower	Upper	
156	100		
77	220.5	76.8	230.4
158	91.0	48.6	145.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/31/2023

Supervised By :Mahesh Dadoda 10/31/2023



#78

n-propylbenzene

Concen: 4.032 ug/l

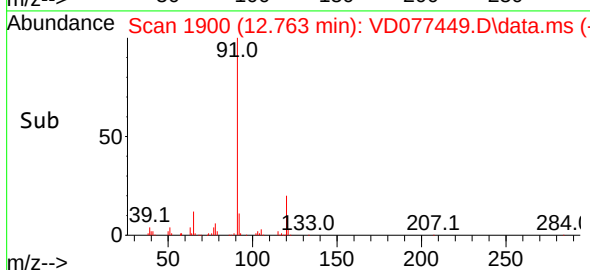
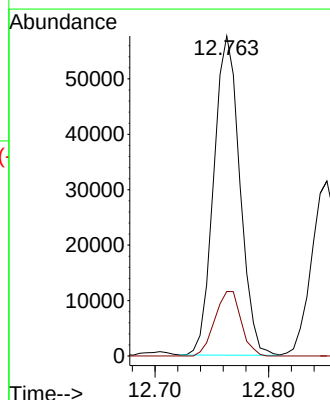
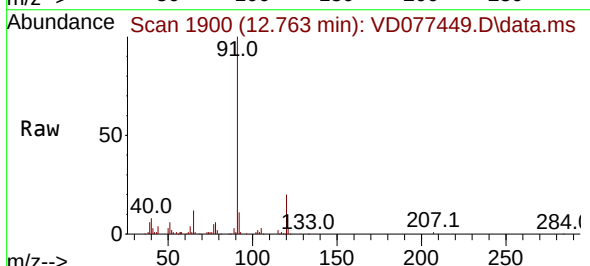
RT: 12.763 min Scan# 1900

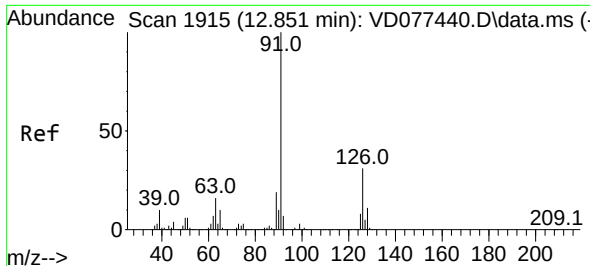
Delta R.T. 0.000 min

Lab File: VD077449.D

Acq: 30 Oct 2023 16:00

Tgt Ion:	91	Resp:	92042
Ion Ratio	Lower	Upper	
91	100		
120	20.3	12.4	37.2





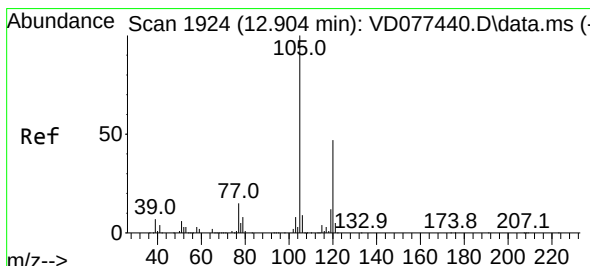
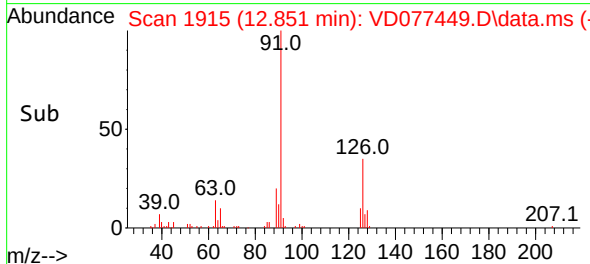
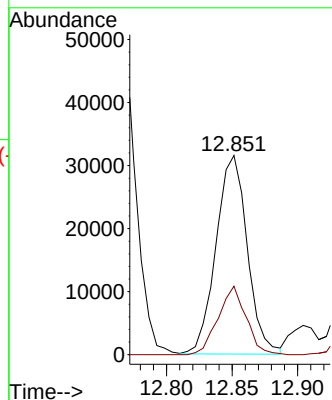
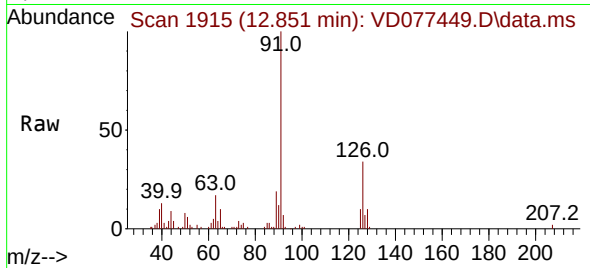
#79
2-Chlorotoluene
Concen: 4.045 ug/l
RT: 12.851 min Scan# 1915
Delta R.T. 0.000 min
Lab File: VD077449.D
Acq: 30 Oct 2023 16:00

Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2023

Tgt Ion: 91 Resp: 5228
Ion Ratio Lower Upper
91 100
126 30.8 19.4 58.1

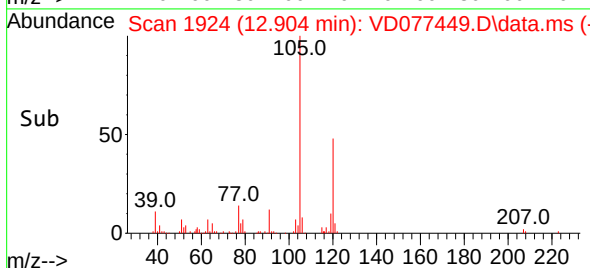
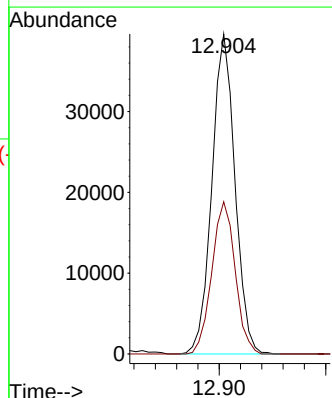
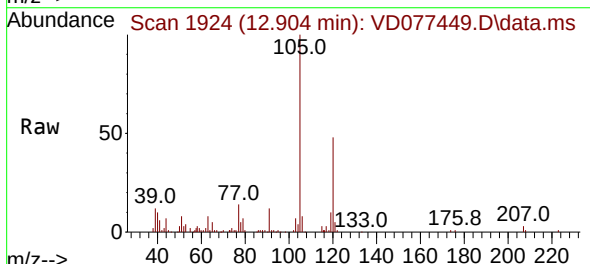
Manual Integrations
APPROVED

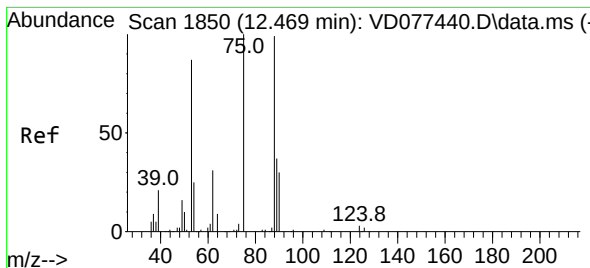
Reviewed By :John Carlone 10/31/2023
Supervised By :Mahesh Dadoda 10/31/2023



#80
1,3,5-Trimethylbenzene
Concen: 3.941 ug/l
RT: 12.904 min Scan# 1924
Delta R.T. 0.000 min
Lab File: VD077449.D
Acq: 30 Oct 2023 16:00

Tgt Ion:105 Resp: 59446
Ion Ratio Lower Upper
105 100
120 48.1 26.4 79.2





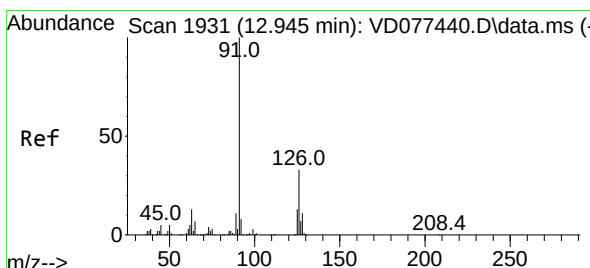
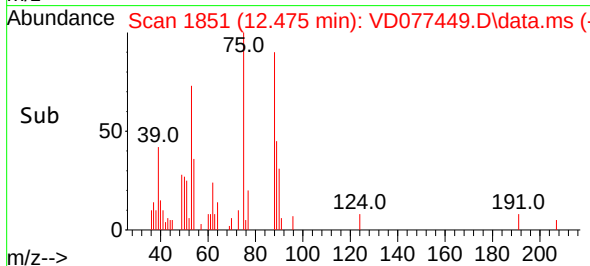
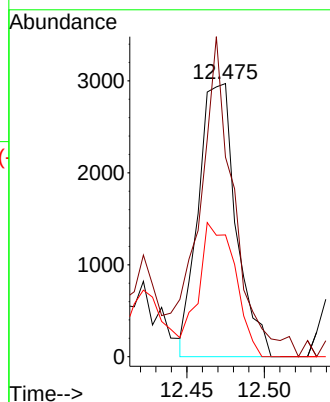
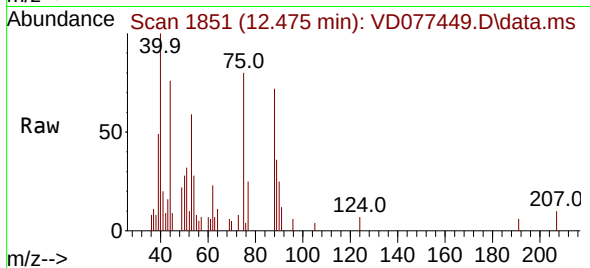
#81
trans-1,4-Dichloro-2-butene
Concen: 3.620 ug/l
RT: 12.475 min Scan# 1850
Delta R.T. 0.006 min
Lab File: VD077449.D
Acq: 30 Oct 2023 16:00

Instrument : MSVOA_D
ClientSampleId : LOD-MDL-SOIL-01-QT4-2023

Tgt Ion: 75 Resp: 5030
Ion Ratio Lower Upper
75 100
53 105.3 63.0 94.4
89 47.6 37.9 56.9

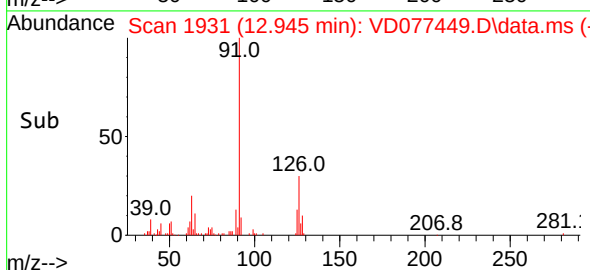
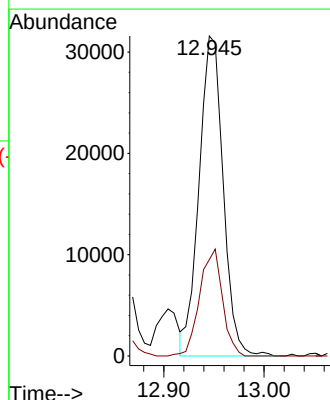
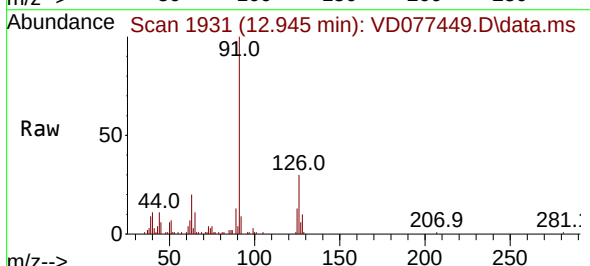
Manual Integrations
APPROVED

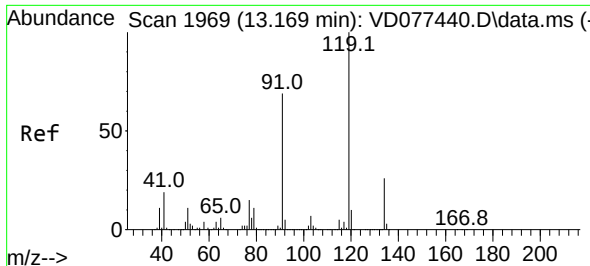
Reviewed By :John Carlone 10/31/2023
Supervised By :Mahesh Dadoda 10/31/2023



#82
4-Chlorotoluene
Concen: 3.928 ug/l
RT: 12.945 min Scan# 1931
Delta R.T. 0.000 min
Lab File: VD077449.D
Acq: 30 Oct 2023 16:00

Tgt Ion: 91 Resp: 52888
Ion Ratio Lower Upper
91 100
126 31.5 19.4 58.4





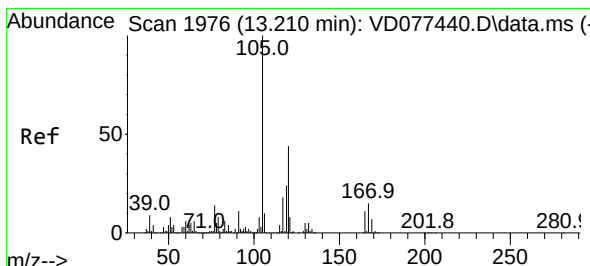
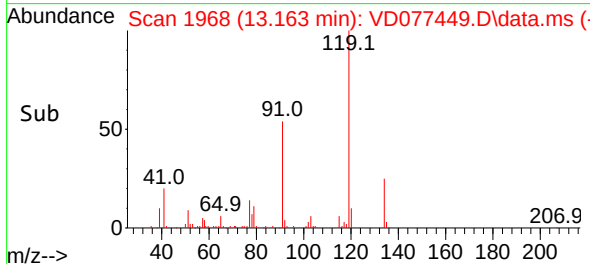
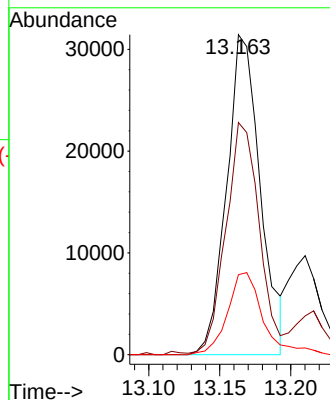
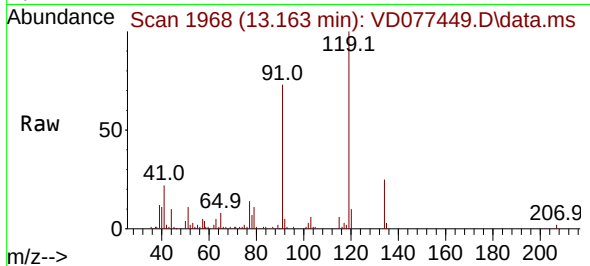
#83
tert-Butylbenzene
Concen: 4.090 ug/l
RT: 13.163 min Scan# 1969
Delta R.T. -0.006 min
Lab File: VD077449.D
Acq: 30 Oct 2023 16:00

Instrument : MSVOA_D
ClientSampleId : LOD-MDL-SOIL-01-QT4-2023

Tgt Ion:119 Resp: 5187
Ion Ratio Lower Upper
119 100
91 72.4 29.3 87.8
134 27.1 14.1 42.3

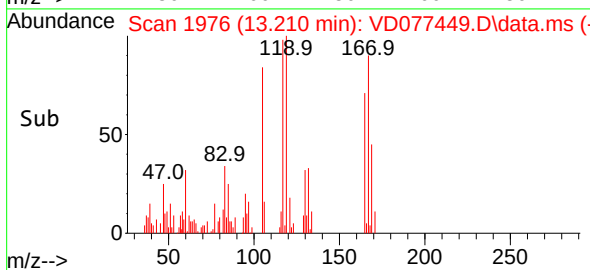
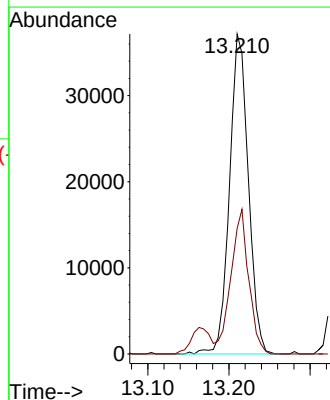
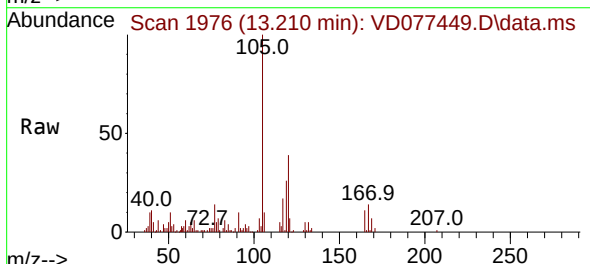
Manual Integrations
APPROVED

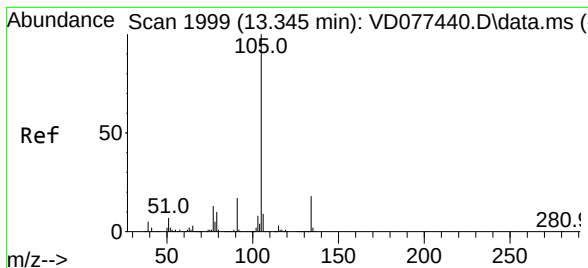
Reviewed By :John Carlone 10/31/2023
Supervised By :Mahesh Dadoda 10/31/2023



#84
1,2,4-Trimethylbenzene
Concen: 3.996 ug/l
RT: 13.210 min Scan# 1976
Delta R.T. 0.000 min
Lab File: VD077449.D
Acq: 30 Oct 2023 16:00

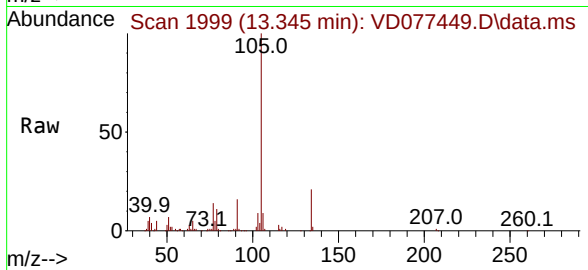
Tgt Ion:105 Resp: 59877
Ion Ratio Lower Upper
105 100
120 42.9 24.3 72.9





#85
 sec-Butylbenzene
 Concen: 4.101 ug/l
 RT: 13.345 min Scan# 1999
 Delta R.T. 0.000 min
 Lab File: VD077449.D
 Acq: 30 Oct 2023 16:00

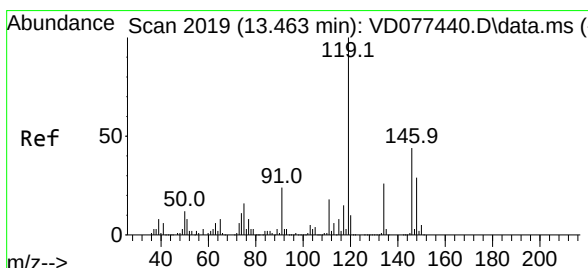
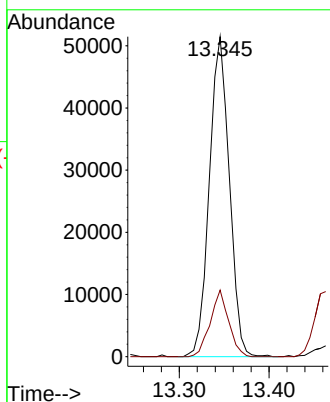
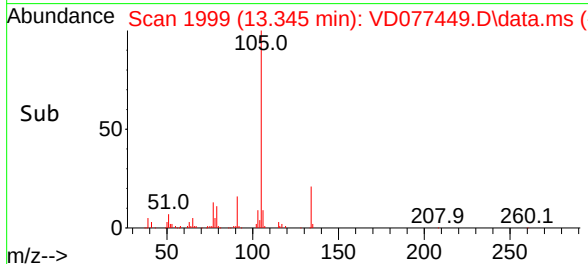
Instrument : MSVOA_D
 ClientSampleId :
 LOD-MDL-SOIL-01-QT4-2023



Tgt Ion:105 Resp: 7957
 Ion Ratio Lower Upper
 105 100
 134 19.2 10.9 32.9

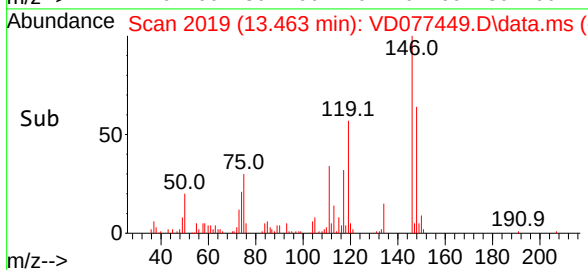
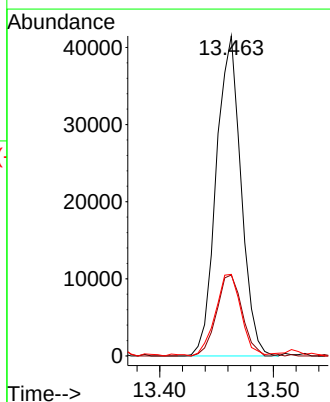
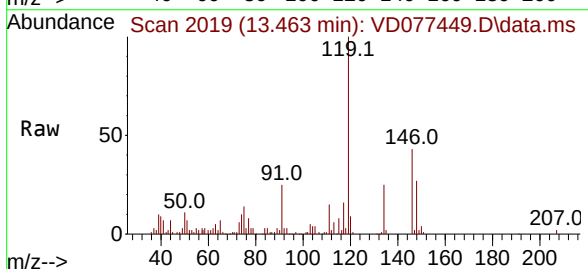
Manual Integrations
 APPROVED

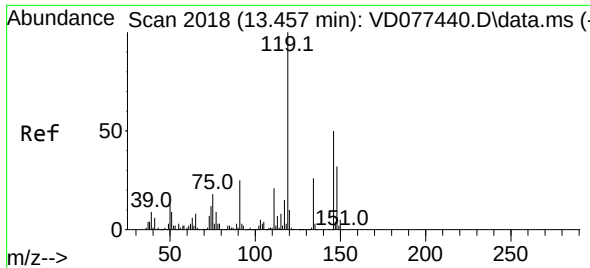
Reviewed By :John Carlone 10/31/2023
 Supervised By :Mahesh Dadoda 10/31/2023



#86
 p-Isopropyltoluene
 Concen: 3.986 ug/l
 RT: 13.463 min Scan# 2019
 Delta R.T. 0.000 min
 Lab File: VD077449.D
 Acq: 30 Oct 2023 16:00

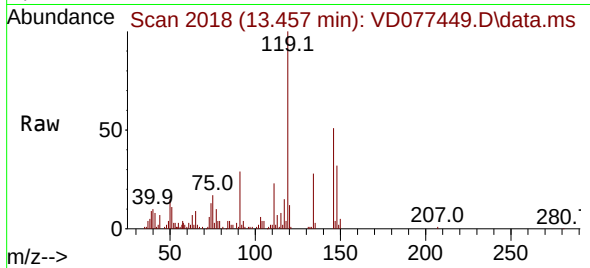
Tgt Ion:119 Resp: 62868
 Ion Ratio Lower Upper
 119 100
 134 26.0 14.2 42.6
 91 26.5 10.5 31.5





#87
 1,3-Dichlorobenzene
 Concen: 3.979 ug/l
 RT: 13.457 min Scan# 2018
 Delta R.T. 0.000 min
 Lab File: VD077449.D
 Acq: 30 Oct 2023 16:00

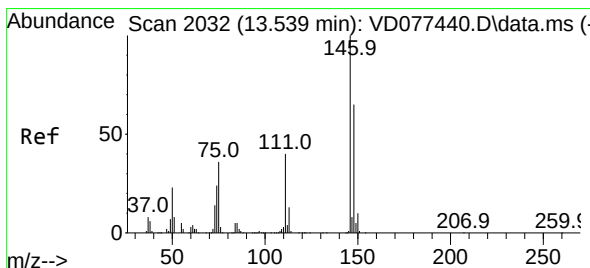
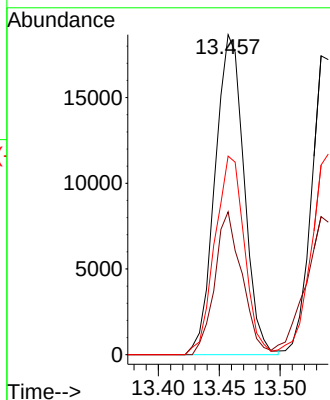
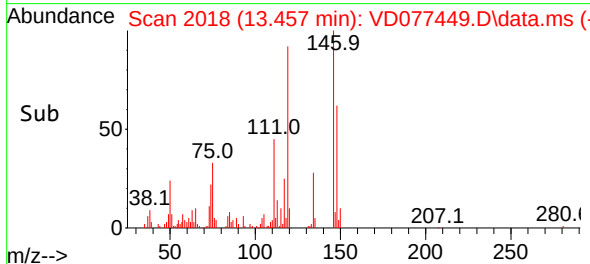
Instrument : MSVOA_D
 ClientSampleId : LOD-MDL-SOIL-01-QT4-2023



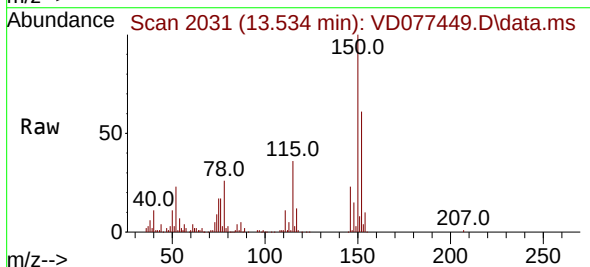
Tgt Ion:146 Resp: 30954
 Ion Ratio Lower Upper
 146 100
 111 42.0 17.9 53.8
 148 63.1 32.3 96.8

Manual Integrations
 APPROVED

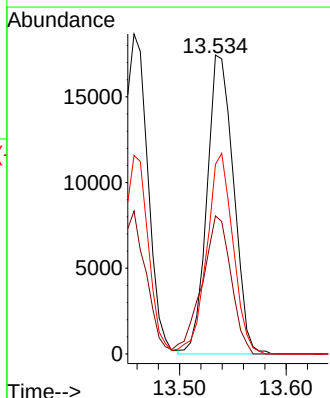
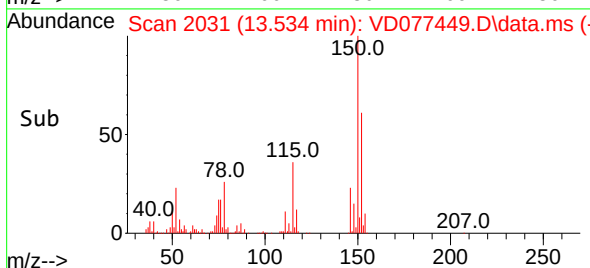
Reviewed By :John Carlone 10/31/2023
 Supervised By :Mahesh Dadoda 10/31/2023

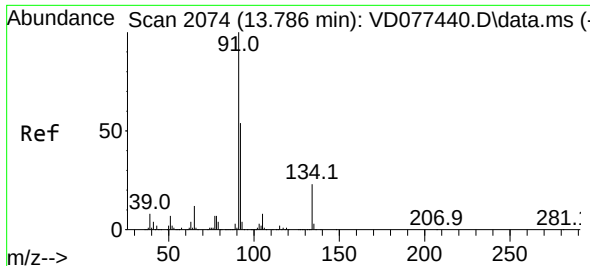


#88
 1,4-Dichlorobenzene
 Concen: 3.893 ug/l
 RT: 13.534 min Scan# 2031
 Delta R.T. -0.006 min
 Lab File: VD077449.D
 Acq: 30 Oct 2023 16:00



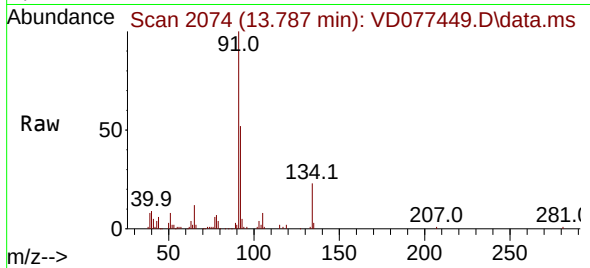
Tgt Ion:146 Resp: 30254
 Ion Ratio Lower Upper
 146 100
 111 50.6 17.4 52.3
 148 66.6 31.7 95.1





#89
n-Butylbenzene
Concen: 4.227 ug/l
RT: 13.787 min Scan# 2074
Delta R.T. 0.000 min
Lab File: VD077449.D
Acq: 30 Oct 2023 16:00

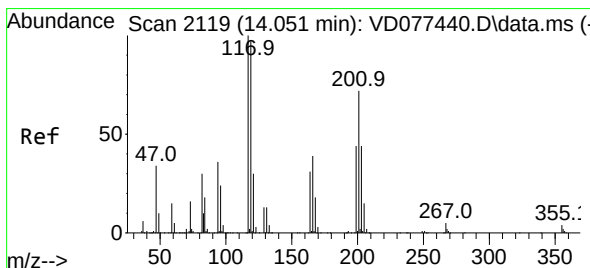
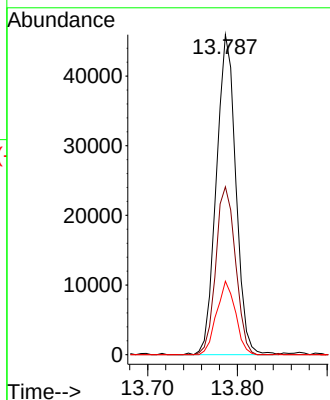
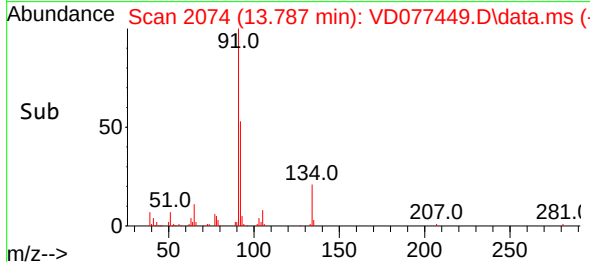
Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2023



Tgt Ion: 91 Resp: 69300
Ion Ratio Lower Upper
91 100
92 52.9 26.5 79.5
134 22.3 13.8 41.3

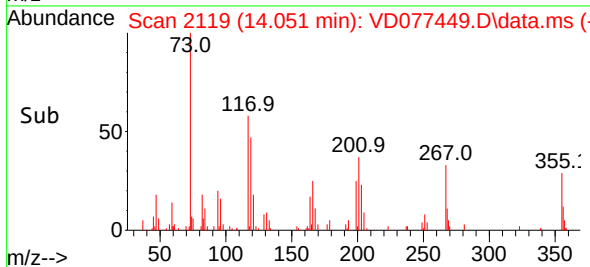
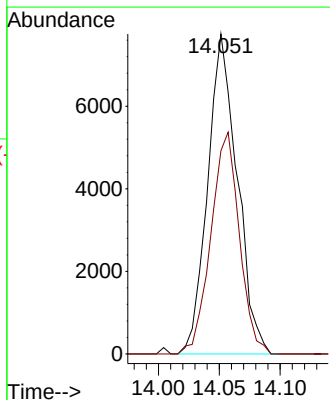
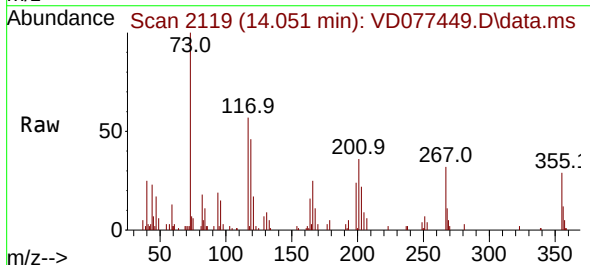
Manual Integrations
APPROVED

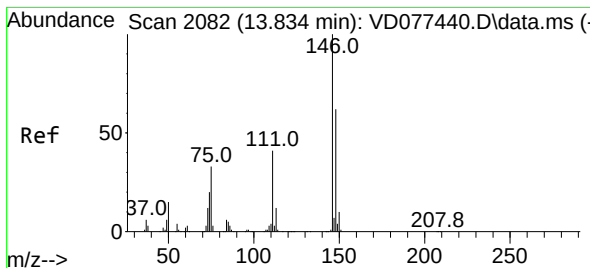
Reviewed By :John Carlone 10/31/2023
Supervised By :Mahesh Dadoda 10/31/2023



#90
Hexachloroethane
Concen: 4.046 ug/l
RT: 14.051 min Scan# 2119
Delta R.T. 0.000 min
Lab File: VD077449.D
Acq: 30 Oct 2023 16:00

Tgt Ion:117 Resp: 13060
Ion Ratio Lower Upper
117 100
201 67.0 38.5 115.5





#91

1,2-Dichlorobenzene

Concen: 3.939 ug/l

RT: 13.834 min Scan# 2082

Delta R.T. 0.000 min

Lab File: VD077449.D

Acq: 30 Oct 2023 16:00

Instrument :

MSVOA_D

ClientSampleId :

LOD-MDL-SOIL-01-QT4-2023

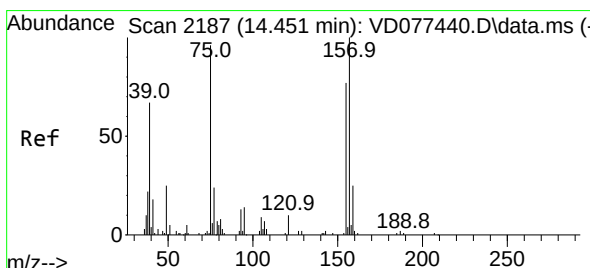
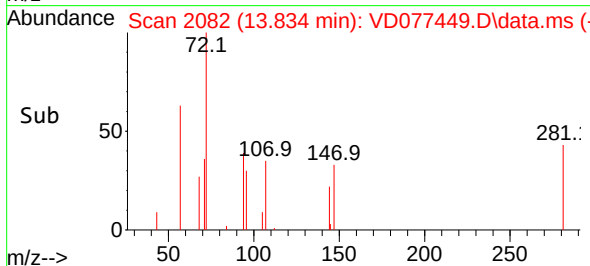
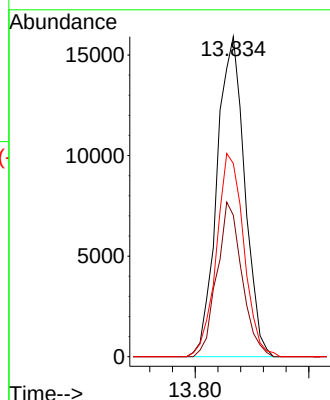
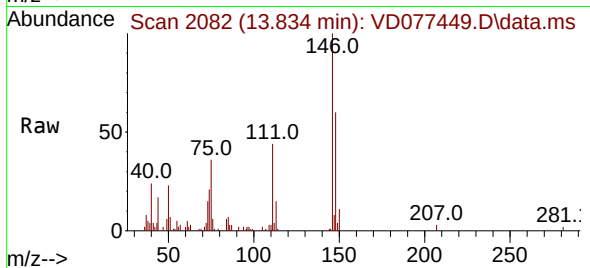
Tgt Ion:146	Resp:	2692
Ion Ratio	Lower	Upper
146	100	
111	43.7	18.3 54.8
148	62.8	31.6 94.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/31/2023

Supervised By :Mahesh Dadoda 10/31/2023



#92

1,2-Dibromo-3-Chloropropane

Concen: 3.855 ug/l

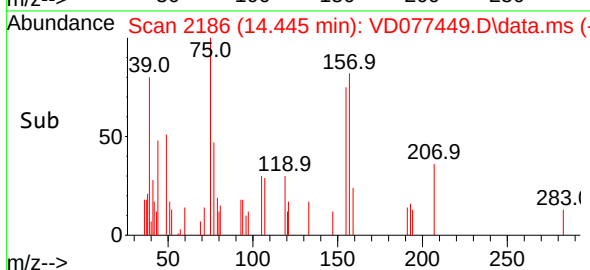
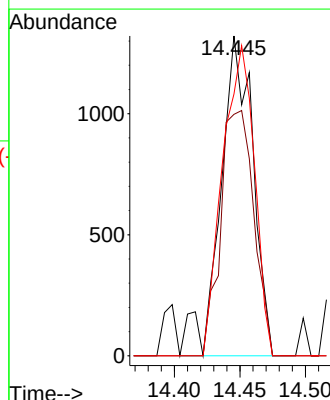
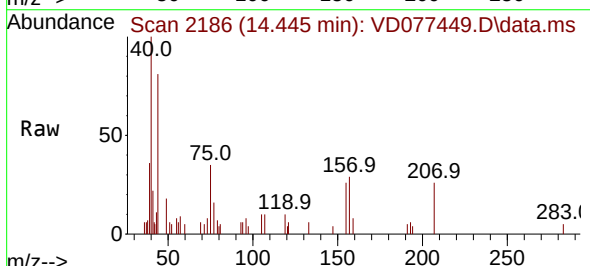
RT: 14.445 min Scan# 2186

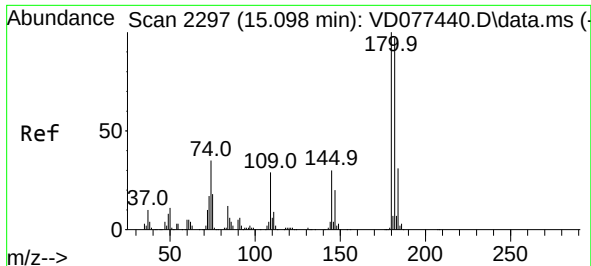
Delta R.T. -0.006 min

Lab File: VD077449.D

Acq: 30 Oct 2023 16:00

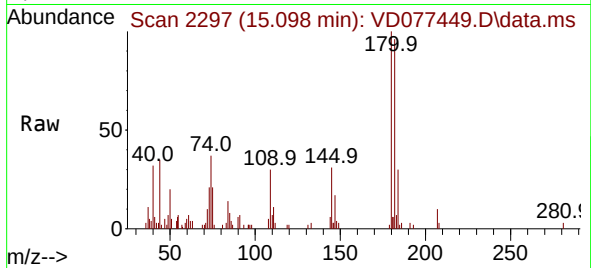
Tgt Ion: 75	Resp:	2289
Ion Ratio	Lower	Upper
75	100	
155	78.1	47.9 143.8
157	94.7	59.9 179.7





#93
1,2,4-Trichlorobenzene
Concen: 3.624 ug/l
RT: 15.098 min Scan# 2297
Delta R.T. 0.000 min
Lab File: VD077449.D
Acq: 30 Oct 2023 16:00

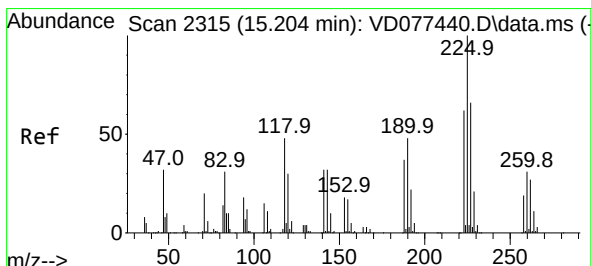
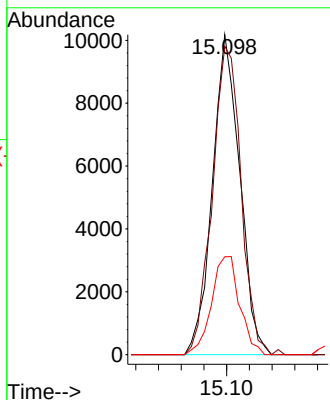
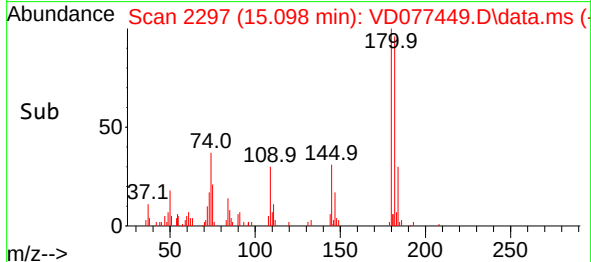
Instrument : MSVOA_D
ClientSampleId : LOD-MDL-SOIL-01-QT4-2023



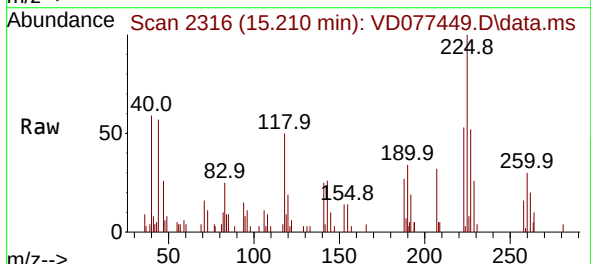
Tgt Ion:180 Resp: 17019
Ion Ratio Lower Upper
180 100
182 101.3 48.5 145.6
145 31.6 14.2 42.6

Manual Integrations
APPROVED

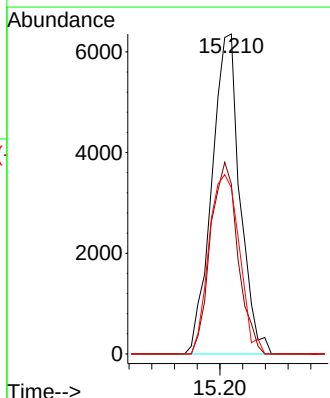
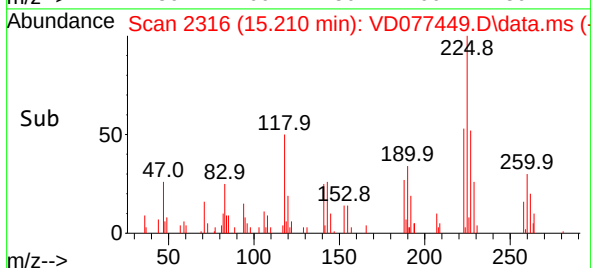
Reviewed By :John Carlone 10/31/2023
Supervised By :Mahesh Dadoda 10/31/2023

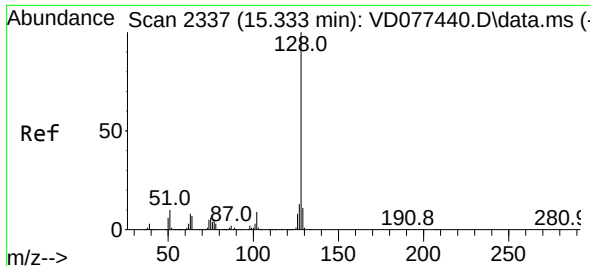


#94
Hexachlorobutadiene
Concen: 4.318 ug/l
RT: 15.210 min Scan# 2316
Delta R.T. 0.006 min
Lab File: VD077449.D
Acq: 30 Oct 2023 16:00



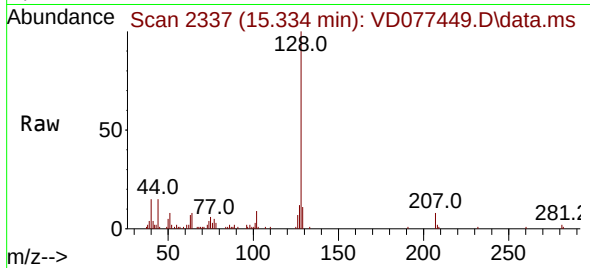
Tgt Ion:225 Resp: 10938
Ion Ratio Lower Upper
225 100
223 58.2 31.6 94.8
227 60.5 31.7 95.1





#95
Naphthalene
Concen: 3.984 ug/l
RT: 15.334 min Scan# 2337
Delta R.T. 0.000 min
Lab File: VD077449.D
Acq: 30 Oct 2023 16:00

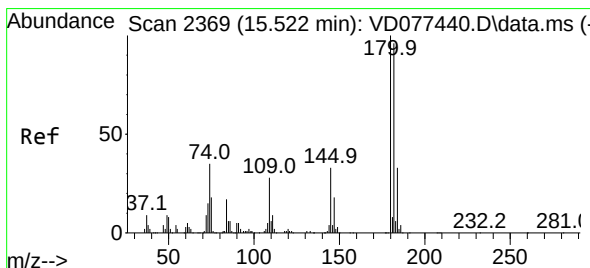
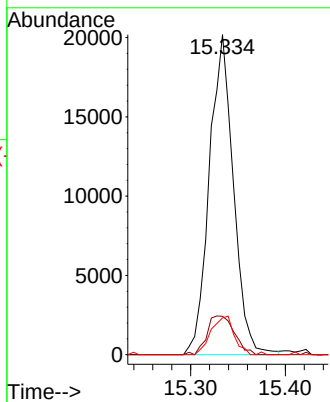
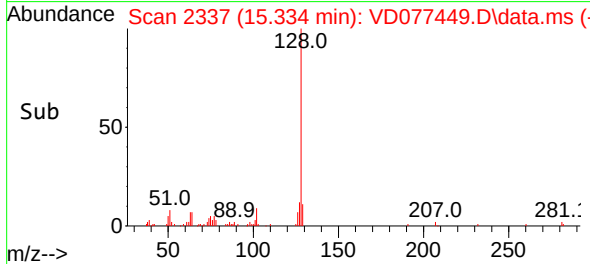
Instrument :
MSVOA_D
ClientSampleId :
LOD-MDL-SOIL-01-QT4-2023



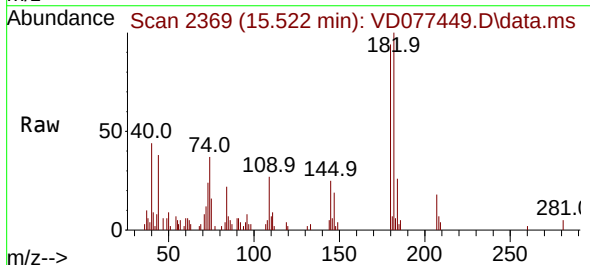
Tgt Ion:128 Resp: 35690
Ion Ratio Lower Upper
128 100
127 12.0 10.5 15.7
129 11.5 8.7 13.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/31/2023
Supervised By :Mahesh Dadoda 10/31/2023



#96
1,2,3-Trichlorobenzene
Concen: 3.856 ug/l
RT: 15.522 min Scan# 2369
Delta R.T. 0.000 min
Lab File: VD077449.D
Acq: 30 Oct 2023 16:00



Tgt Ion:180 Resp: 15630
Ion Ratio Lower Upper
180 100
182 94.1 47.3 141.9
145 32.4 15.1 45.3

