

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD103123\
 Data File : VD077457.D
 Acq On : 31 Oct 2023 13:31
 Operator : JC/SY
 Sample : 04699-03 4.0 PPB
 Misc : 5.00G/5.0ml/MSVOA_D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT4-2023

Quant Time: Nov 01 06:05:41 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 11/01/2023
 Supervised By : Mahesh Dadoda 11/01/2023

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

Internal Standards						
1) Pentafluorobenzene	7.881	168	269358	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.781	114	478350	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	422354	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.516	152	186436	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.234	65	195570	51.346	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 102.700%			
35) Dibromofluoromethane	7.810	113	168600	50.996	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 102.000%			
50) Toluene-d8	10.269	98	674820	52.548	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 105.100%			
62) 4-Bromofluorobenzene	12.575	95	217030	50.177	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 100.360%			
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.934	85	8917	4.106	ug/l	93
3) Chloromethane	2.152	50	13694	3.971	ug/l	93
4) Vinyl Chloride	2.287	62	13541	4.027	ug/l	97
5) Bromomethane	2.699	94	8816	5.003	ug/l	100
6) Chloroethane	2.846	64	9733	4.299	ug/l	99
7) Trichlorofluoromethane	3.181	101	18239	3.873	ug/l	98
8) Diethyl Ether	3.599	74	6710	3.964	ug/l #	40
9) 1,1,2-Trichlorotrifluo...	3.969	101	10629	3.739	ug/l #	94
10) Methyl Iodide	4.169	142	10770	5.959	ug/l	93
11) Tert butyl alcohol	5.057	59	8418m	27.901	ug/l	
12) 1,1-Dichloroethene	3.940	96	9943	3.695	ug/l #	62
13) Acrolein	3.799	56	8765	22.030	ug/l	95
14) Allyl chloride	4.569	41	23416	3.607	ug/l #	83
15) Acrylonitrile	5.252	53	18040	19.716	ug/l	97
16) Acetone	4.022	43	24985	24.790	ug/l #	77
17) Carbon Disulfide	4.275	76	21588	6.162	ug/l	98
18) Methyl Acetate	4.563	43	14688	3.995	ug/l #	79
19) Methyl tert-butyl Ether	5.316	73	33632	3.981	ug/l #	81
20) Methylene Chloride	4.799	84	31599	6.223	ug/l #	65
21) trans-1,2-Dichloroethene	5.316	96	12101	3.861	ug/l	88
22) Diisopropyl ether	6.216	45	55688	4.036	ug/l #	85
23) Vinyl Acetate	6.157	43	115239m	19.358	ug/l	
24) 1,1-Dichloroethane	6.116	63	27698	3.869	ug/l	97
25) 2-Butanone	7.081	43	34080	25.351	ug/l #	70
26) 2,2-Dichloropropane	7.081	77	30092	4.743	ug/l	80
27) cis-1,2-Dichloroethene	7.087	96	15318	3.945	ug/l	53
28) Bromochloromethane	7.428	49	10436	5.185	ug/l #	49
29) Tetrahydrofuran	7.451	42	15992	20.057	ug/l #	70
30) Chloroform	7.599	83	26122	3.907	ug/l	91
31) Cyclohexane	7.881	56	28904	4.854	ug/l #	69
32) 1,1,1-Trichloroethane	7.793	97	21477	3.899	ug/l #	91
36) 1,1-Dichloropropene	8.010	75	18974	3.871	ug/l	89
37) Ethyl Acetate	7.169	43	11444	4.068	ug/l #	94
38) Carbon Tetrachloride	7.993	117	18315	3.965	ug/l	89
39) Methylcyclohexane	9.269	83	19971	3.571	ug/l #	83
40) Benzene	8.251	78	54498	3.899	ug/l	93

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.410	41	7161	3.978	ug/l #	72
42) 1,2-Dichloroethane	8.328	62	17443	3.940	ug/l	93
43) Isopropyl Acetate	8.363	43	21814	3.758	ug/l #	77
44) Trichloroethene	9.034	130	13111	3.829	ug/l	78
45) 1,2-Dichloropropane	9.304	63	16698	4.058	ug/l	97
46) Dibromomethane	9.393	93	6846	3.457	ug/l	88
47) Bromodichloromethane	9.587	83	20736	3.961	ug/l	95
48) Methyl methacrylate	9.381	41	11344	4.094	ug/l #	62
49) 1,4-Dioxane	9.381	88	1791	84.163	ug/l #	58
51) 4-Methyl-2-Pentanone	10.157	43	55118	19.289	ug/l #	80
52) Toluene	10.334	92	33876	3.975	ug/l	99
53) t-1,3-Dichloropropene	10.557	75	21710	3.917	ug/l	98
54) cis-1,3-Dichloropropene	10.016	75	23993	3.762	ug/l #	76
55) 1,1,2-Trichloroethane	10.740	97	10141	3.838	ug/l	94
56) Ethyl methacrylate	10.598	69	15436	3.929	ug/l #	62
57) 1,3-Dichloropropane	10.881	76	19639	3.977	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.869	63	36762	18.692	ug/l #	82
59) 2-Hexanone	10.922	43	38507	18.293	ug/l	78
60) Dibromochloromethane	11.075	129	12567	3.955	ug/l	93
61) 1,2-Dibromoethane	11.181	107	9502	3.798	ug/l	98
64) Tetrachloroethene	10.810	164	9160	3.407	ug/l	91
65) Chlorobenzene	11.610	112	33152	3.747	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.681	131	12347	3.693	ug/l	98
67) Ethyl Benzene	11.687	91	65761	3.863	ug/l #	88
68) m/p-Xylenes	11.792	106	48387	7.871	ug/l	81
69) o-Xylene	12.122	106	23557	4.000	ug/l	80
70) Styrene	12.139	104	39199	3.859	ug/l #	86
71) Bromoform	12.298	173	6806	3.671	ug/l #	100
73) Isopropylbenzene	12.422	105	62245	4.095	ug/l	94
74) N-amyl acetate	12.234	43	22280	4.138	ug/l #	79
75) 1,1,2,2-Tetrachloroethane	12.675	83	12143	4.075	ug/l	98
76) 1,2,3-Trichloropropane	12.722	75	8873m	3.910	ug/l	
77) Bromobenzene	12.704	156	12546	3.750	ug/l #	59
78) n-propylbenzene	12.763	91	78702	4.078	ug/l	93
79) 2-Chlorotoluene	12.851	91	41433	3.791	ug/l	90
80) 1,3,5-Trimethylbenzene	12.904	105	52529	4.119	ug/l	86
81) trans-1,4-Dichloro-2-b...	12.475	75	4651	3.959	ug/l #	81
82) 4-Chlorotoluene	12.951	91	44526	3.912	ug/l	89
83) tert-Butylbenzene	13.169	119	43192	4.028	ug/l	89
84) 1,2,4-Trimethylbenzene	13.216	105	51476	4.063	ug/l	91
85) sec-Butylbenzene	13.345	105	65536	3.994	ug/l	96
86) p-Isopropyltoluene	13.463	119	54930	4.119	ug/l	92
87) 1,3-Dichlorobenzene	13.463	146	26297	3.999	ug/l	96
88) 1,4-Dichlorobenzene	13.539	146	26350m	4.010	ug/l	
89) n-Butylbenzene	13.786	91	56512	4.077	ug/l	96
90) Hexachloroethane	14.057	117	10472	3.837	ug/l	98
91) 1,2-Dichlorobenzene	13.833	146	23113	3.999	ug/l	96
92) 1,2-Dibromo-3-Chloropr...	14.439	75	2282	4.546	ug/l	69
93) 1,2,4-Trichlorobenzene	15.098	180	15058	3.792	ug/l	96
94) Hexachlorobutadiene	15.210	225	8375	3.910	ug/l	96
95) Naphthalene	15.333	128	29931	3.952	ug/l #	96
96) 1,2,3-Trichlorobenzene	15.522	180	12234	3.569	ug/l	93

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ClientSampleId :
MDL-SOIL-03-QT4-2023

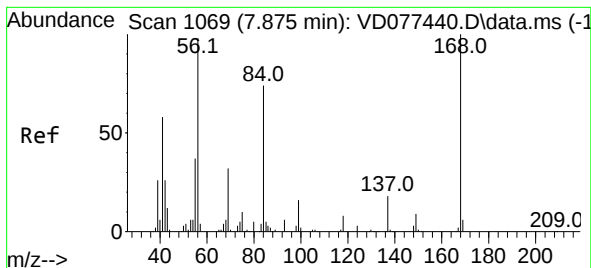
Manual Integrations
APPROVED

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Supervised By :Mahesh Dadoda 11/01/2023

Quant Time: Nov 01 06:05:41 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D103023S.M
Quant Title : SW846 8260
QLast Update : Tue Oct 31 04:19:17 2023
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.881 min Scan# 1069

Delta R.T. 0.006 min

Lab File: VD077457.D

Acq: 31 Oct 2023 13:31

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT4-2023

Tgt Ion:168 Resp: 26935

Ion Ratio Lower Upper

168 100

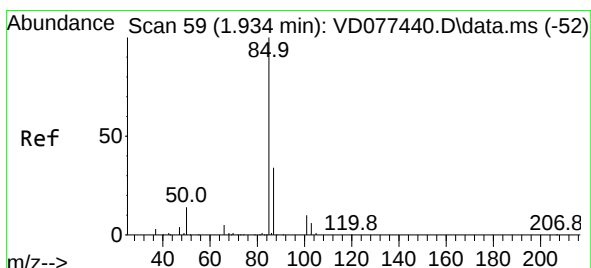
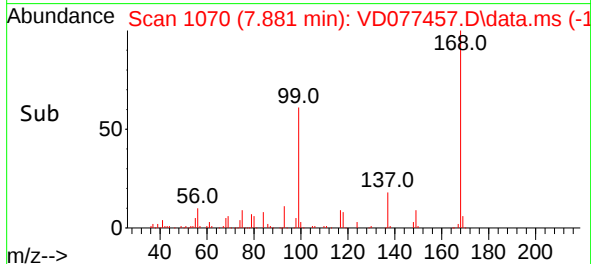
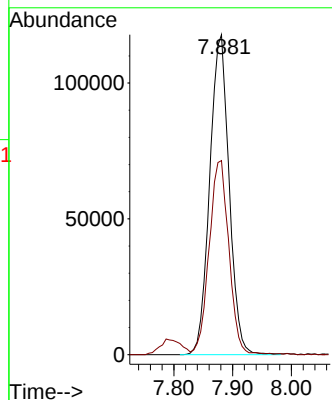
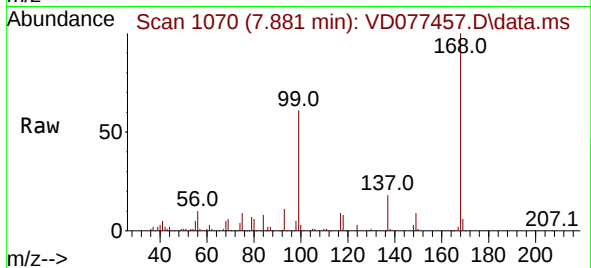
99 60.3 36.7 55.1

Manual Integrations

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Reviewed By :John Carlone 11/01/2023

Supervised By :Mahesh Dadoda 11/01/2023



#2

Dichlorodifluoromethane

Concen: 4.106 ug/l

RT: 1.934 min Scan# 59

Delta R.T. -0.000 min

Lab File: VD077457.D

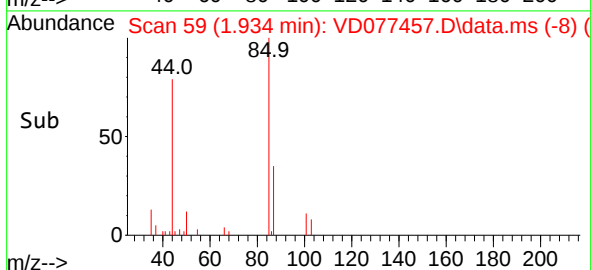
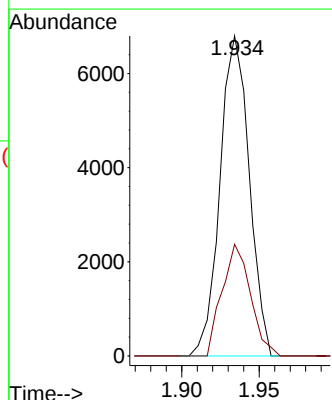
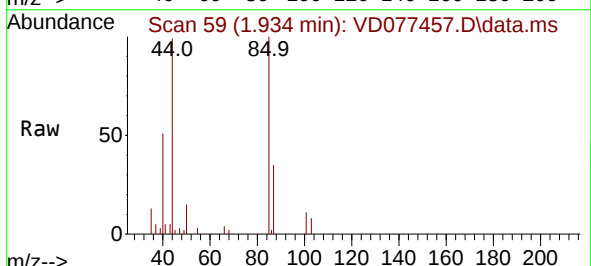
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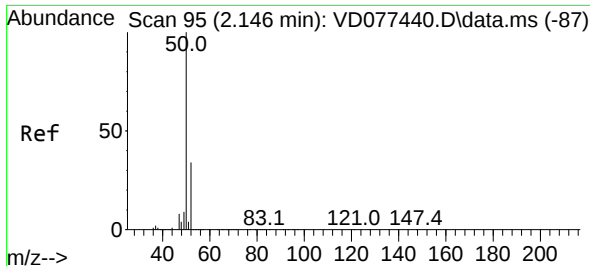
Tgt Ion: 85 Resp: 8917

Ion Ratio Lower Upper

85 100

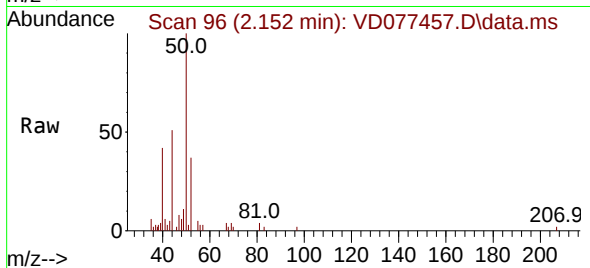
87 34.9 15.7 47.0





#3
Chloromethane
Concen: 3.971 ug/l
RT: 2.152 min Scan# 90
Delta R.T. 0.006 min
Lab File: VD077457.D
Acq: 31 Oct 2023 13:31

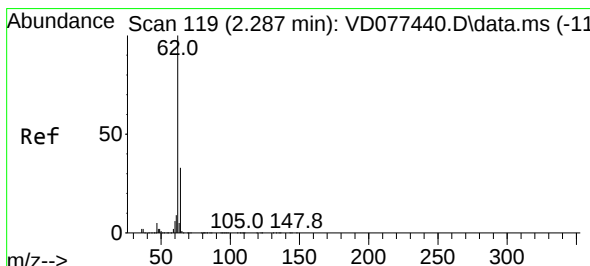
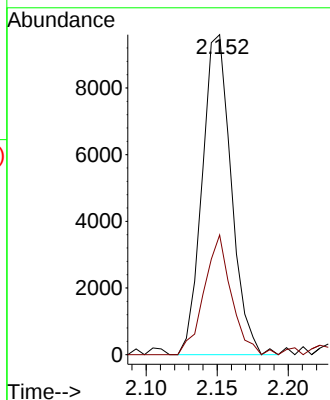
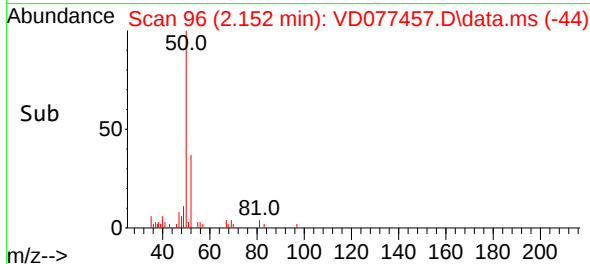
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT4-2023



Tgt Ion: 50 Resp: 13694
Ion Ratio Lower Upper
50 100
52 37.4 26.6 40.0

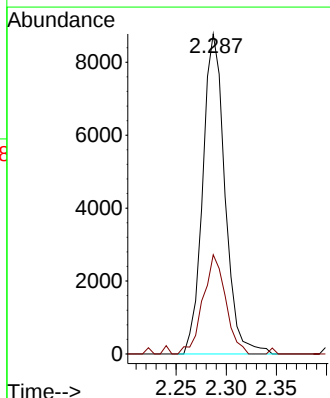
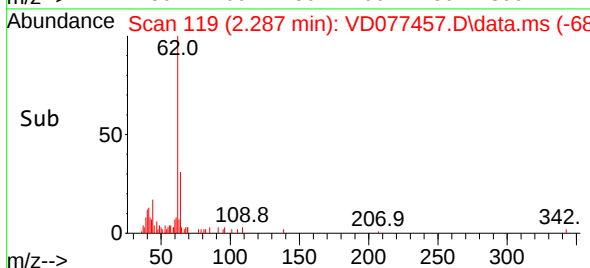
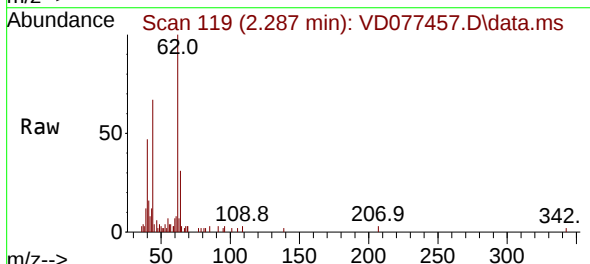
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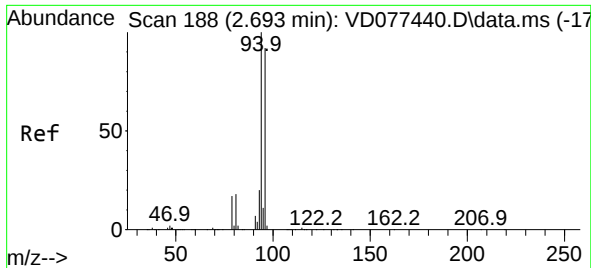
Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023



#4
Vinyl Chloride
Concen: 4.027 ug/l
RT: 2.287 min Scan# 119
Delta R.T. -0.000 min
Lab File: VD077457.D
Acq: 31 Oct 2023 13:31

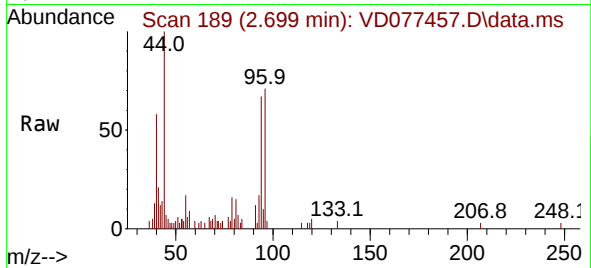
Tgt Ion: 62 Resp: 13541
Ion Ratio Lower Upper
62 100
64 31.0 26.0 39.0





#5
Bromomethane
Concen: 5.003 ug/l
RT: 2.699 min Scan# 11
Delta R.T. 0.006 min
Lab File: VD077457.D
Acq: 31 Oct 2023 13:31

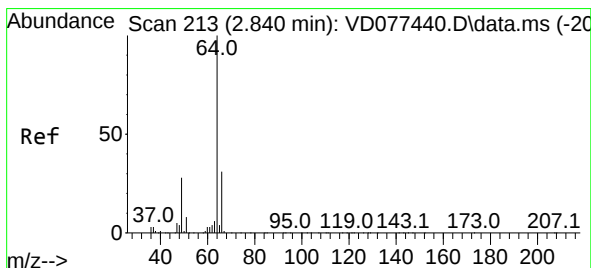
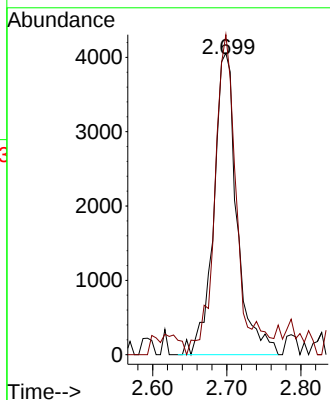
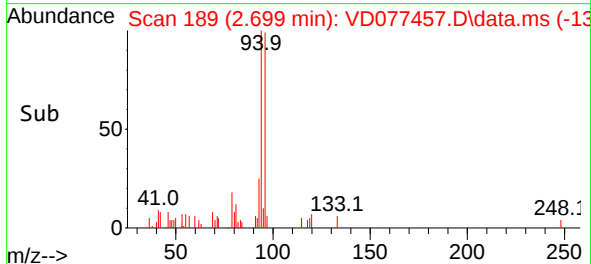
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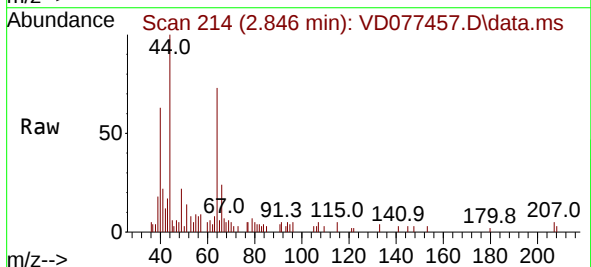
Tgt Ion: 94 Resp: 8810
Ion Ratio Lower Upper
94 100
96 94.6 75.8 113.8

Manual Integrations
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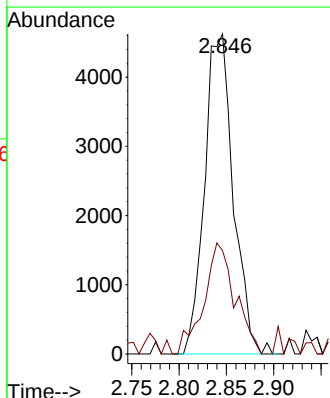
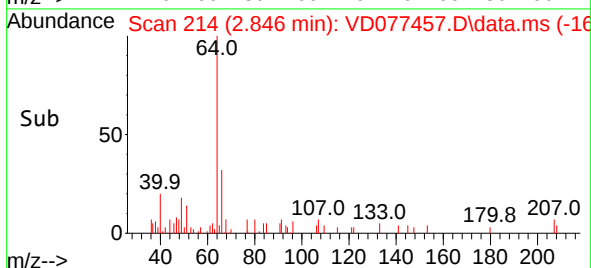
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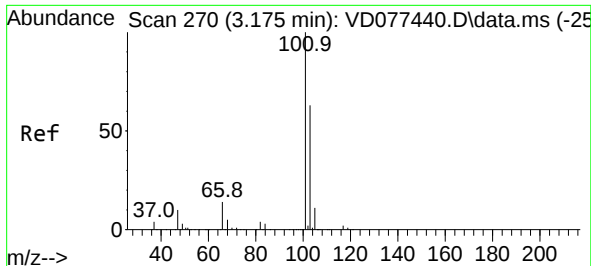


#6
Chloroethane
Concen: 4.299 ug/l
RT: 2.846 min Scan# 214
Delta R.T. 0.006 min
Lab File: VD077457.D
Acq: 31 Oct 2023 13:31



Tgt Ion: 64 Resp: 9733
Ion Ratio Lower Upper
64 100
66 32.3 25.5 38.3





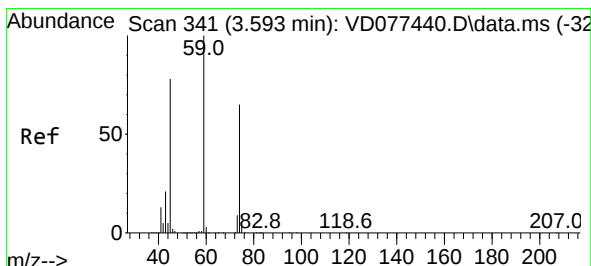
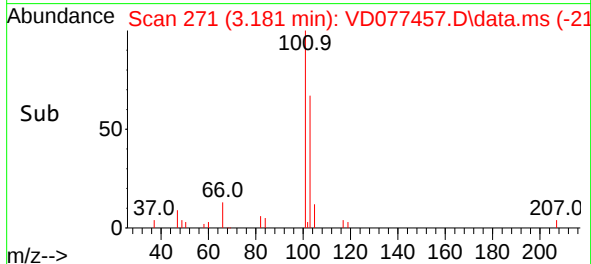
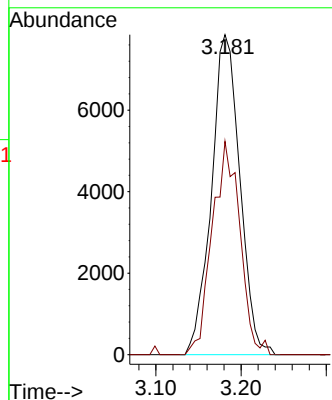
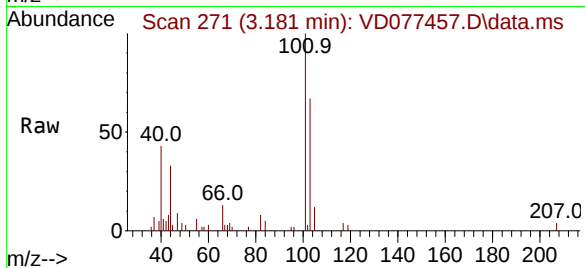
#7
Trichlorofluoromethane
Concen: 3.873 ug/l
RT: 3.181 min Scan# 21
Delta R.T. 0.006 min
Lab File: VD077457.D
Acq: 31 Oct 2023 13:31

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT4-2023

Tgt Ion:101 Resp: 18239
Ion Ratio Lower Upper
101 100
103 66.6 52.3 78.5

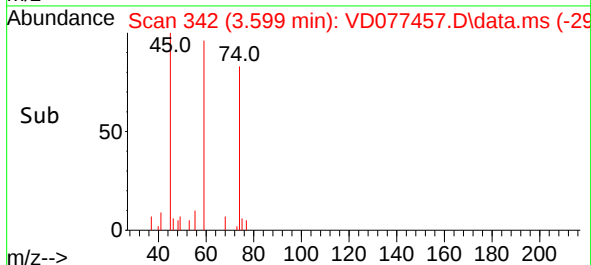
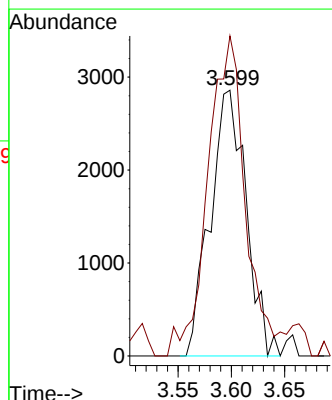
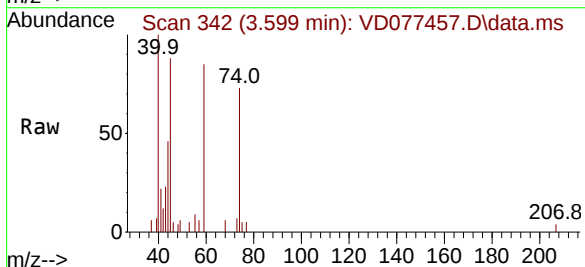
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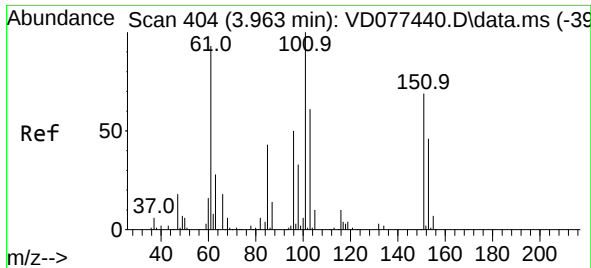
Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023



#8
Diethyl Ether
Concen: 3.964 ug/l
RT: 3.599 min Scan# 342
Delta R.T. 0.006 min
Lab File: VD077457.D
Acq: 31 Oct 2023 13:31

Tgt Ion: 74 Resp: 6710
Ion Ratio Lower Upper
74 100
45 126.4 37.5 112.7#





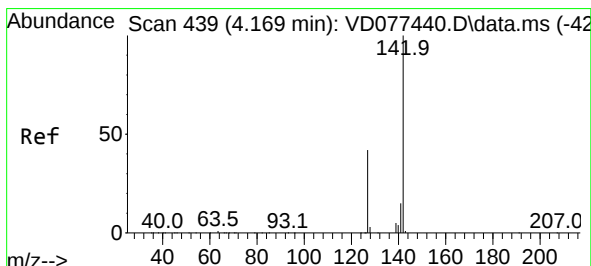
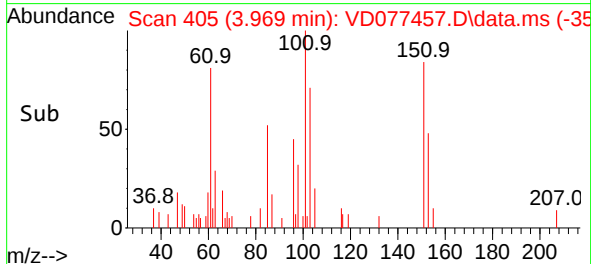
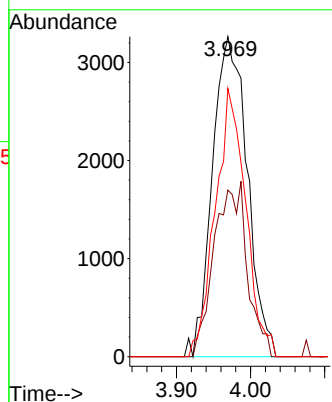
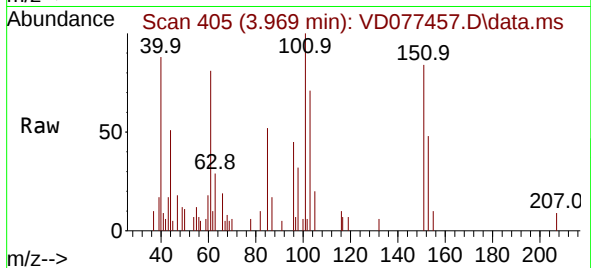
#9
1,1,2-Trichlorotrifluoroethane
Concen: 3.739 ug/l
RT: 3.969 min Scan# 405
Delta R.T. 0.006 min
Lab File: VD077457.D
Acq: 31 Oct 2023 13:31

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT4-2023

Tgt Ion:101 Resp: 10629
Ion Ratio Lower Upper
101 100
85 51.7 33.8 50.6
151 73.5 59.8 89.6

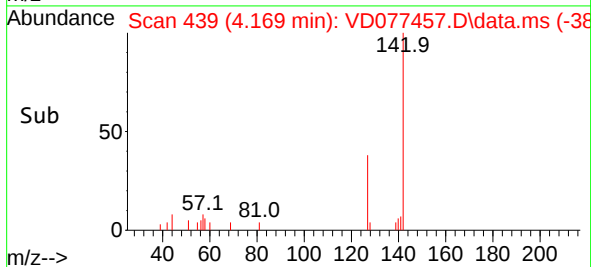
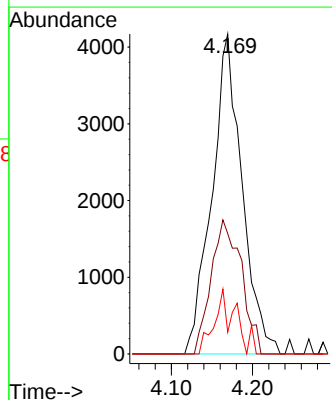
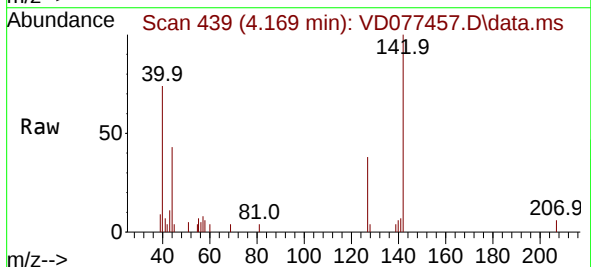
Manual Integrations
APPROVED

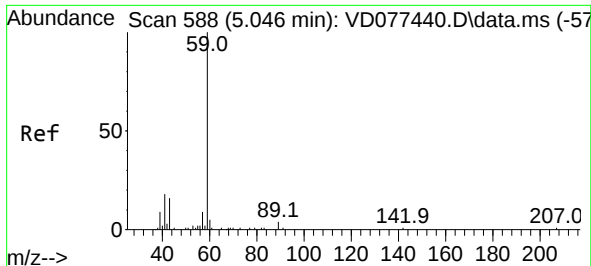
Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023



#10
Methyl Iodide
Concen: 5.959 ug/l
RT: 4.169 min Scan# 439
Delta R.T. 0.000 min
Lab File: VD077457.D
Acq: 31 Oct 2023 13:31

Tgt Ion:142 Resp: 10770
Ion Ratio Lower Upper
142 100
127 42.0 29.4 44.0
141 13.0 11.1 16.7





#11

Tert butyl alcohol

Concen: 27.901 ug/l m

RT: 5.057 min Scan# 5

Delta R.T. 0.012 min

Lab File: VD077457.D

Acq: 31 Oct 2023 13:31

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT4-2023

Tgt Ion: 59 Resp: 8418

Ion Ratio Lower Upper

59 100

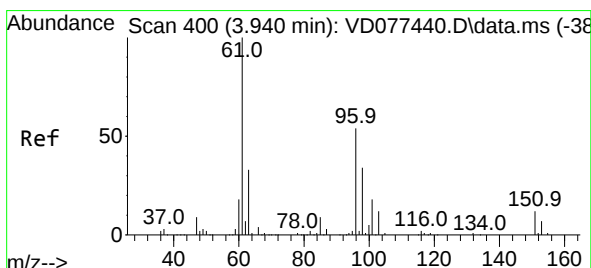
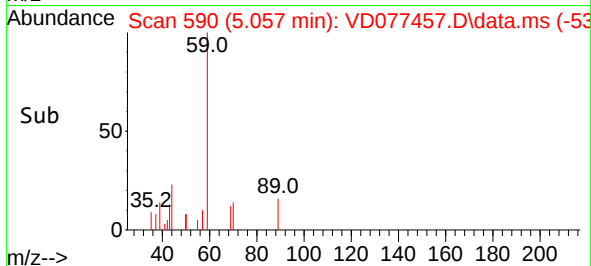
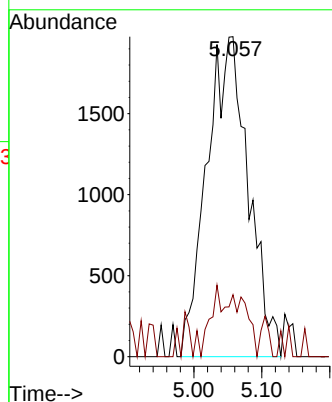
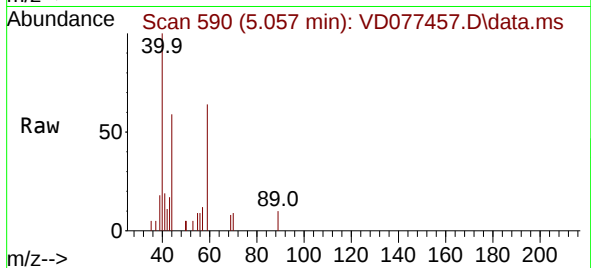
57 7.0 7.8 11.8

Manual Integrations

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Reviewed By :John Carlone 11/01/2023

Supervised By :Mahesh Dadoda 11/01/2023



#12

1,1-Dichloroethene

Concen: 3.695 ug/l

RT: 3.940 min Scan# 400

Delta R.T. -0.000 min

Lab File: VD077457.D

Acq: 31 Oct 2023 13:31

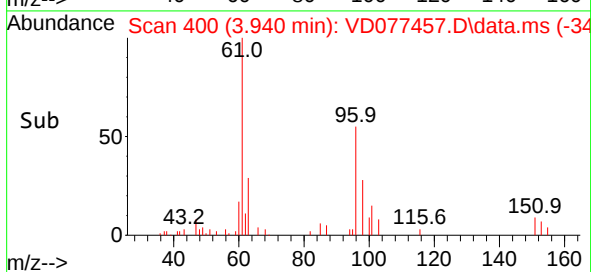
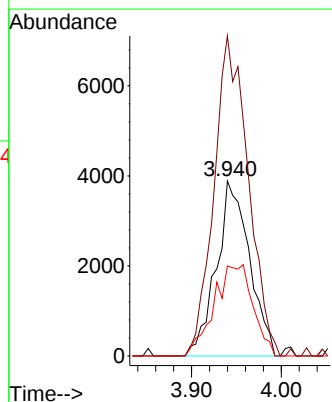
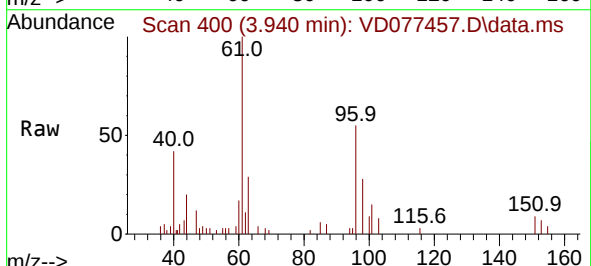
Tgt Ion: 96 Resp: 9943

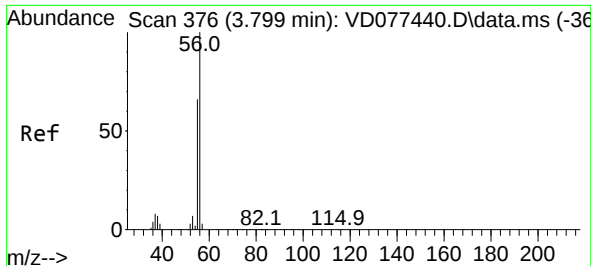
Ion Ratio Lower Upper

96 100

61 182.8 100.6 150.8

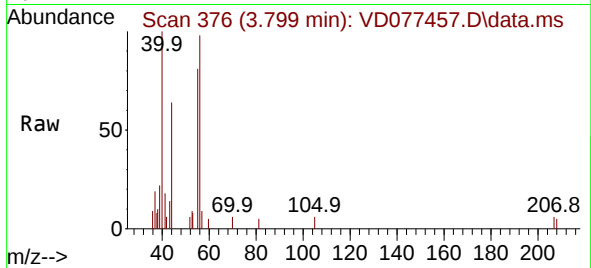
98 51.5 50.2 75.2





#13
Acrolein
Concen: 22.030 ug/l
RT: 3.799 min Scan# 31
Delta R.T. -0.000 min
Lab File: VD077457.D
Acq: 31 Oct 2023 13:31

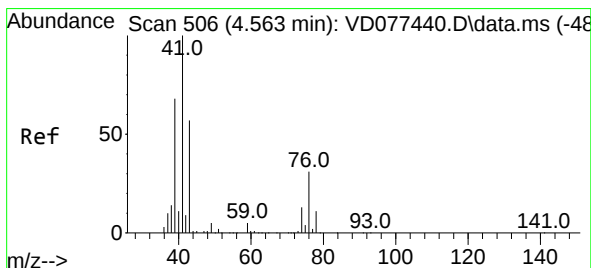
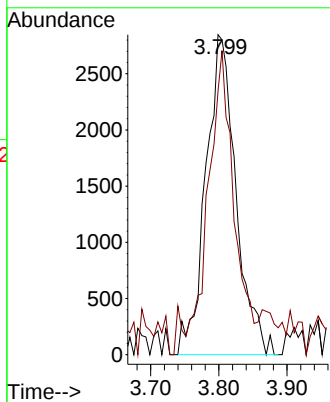
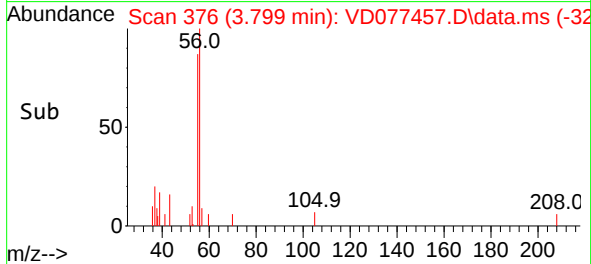
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT4-2023



Tgt Ion: 56 Resp: 876
Ion Ratio Lower Upper
56 100
55 73.4 55.1 82.7

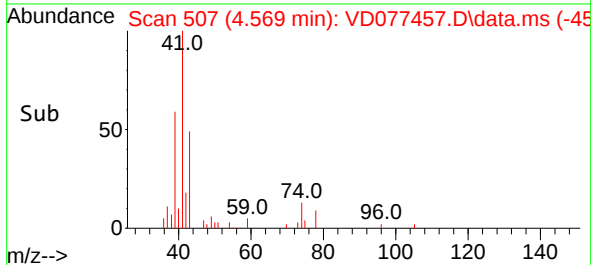
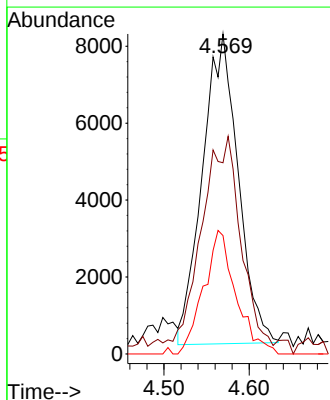
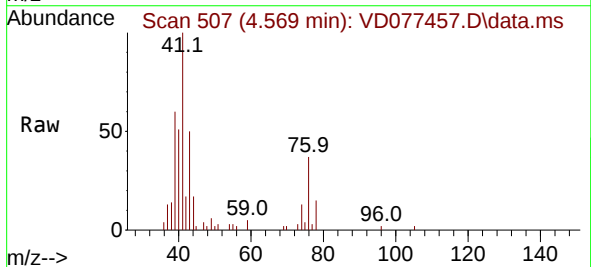
Manual Integrations
APPROVED

Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023



#14
Allyl chloride
Concen: 3.607 ug/l
RT: 4.569 min Scan# 507
Delta R.T. 0.006 min
Lab File: VD077457.D
Acq: 31 Oct 2023 13:31

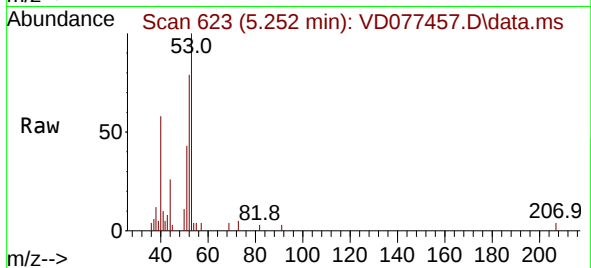
Tgt Ion: 41 Resp: 23416
Ion Ratio Lower Upper
41 100
39 72.2 53.8 80.6
76 36.1 45.8 68.8#





#15
Acrylonitrile
Concen: 19.716 ug/l
RT: 5.252 min Scan# 61
Delta R.T. -0.000 min
Lab File: VD077457.D
Acq: 31 Oct 2023 13:31

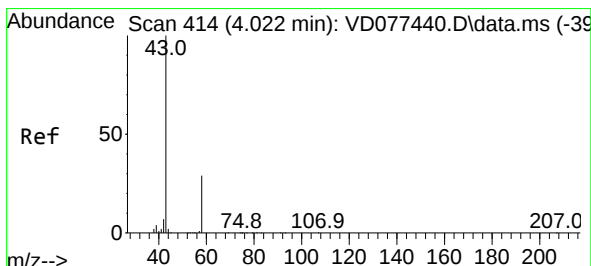
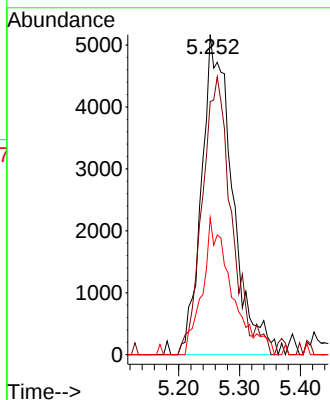
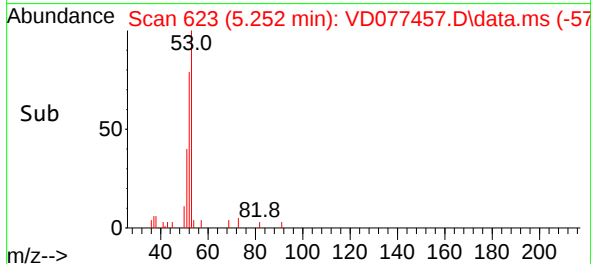
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT4-2023



Tgt Ion: 53 Resp: 18040
Ion Ratio Lower Upper
53 100
52 81.0 65.0 97.4
51 41.0 28.3 42.5

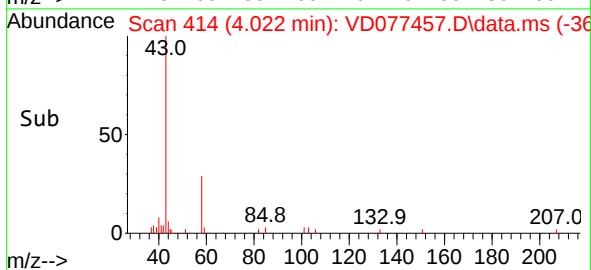
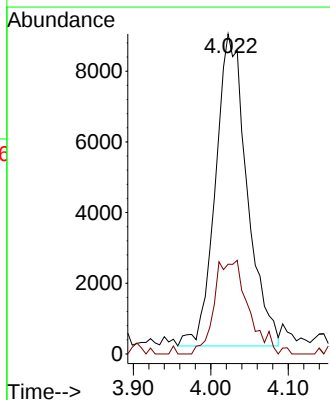
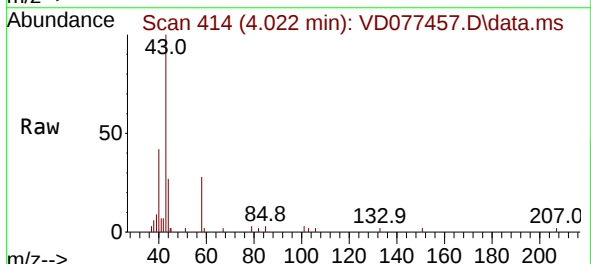
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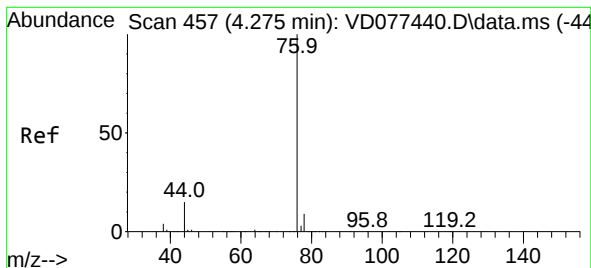
Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023



#16
Acetone
Concen: 24.790 ug/l
RT: 4.022 min Scan# 414
Delta R.T. -0.000 min
Lab File: VD077457.D
Acq: 31 Oct 2023 13:31

Tgt Ion: 43 Resp: 24985
Ion Ratio Lower Upper
43 100
58 28.8 34.7 52.1#





#17

Carbon Disulfide

Concen: 6.162 ug/l

RT: 4.275 min Scan# 457

Delta R.T. 0.000 min

Lab File: VD077457.D

Acq: 31 Oct 2023 13:31

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT4-2023

Tgt Ion: 76 Resp: 21588

Ion Ratio Lower Upper

76 100

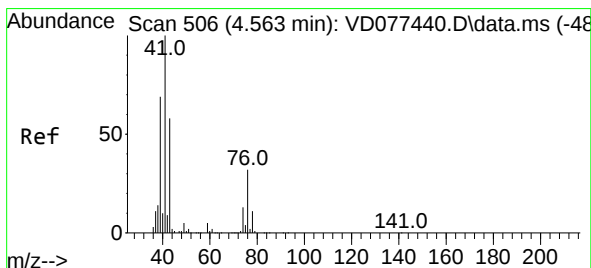
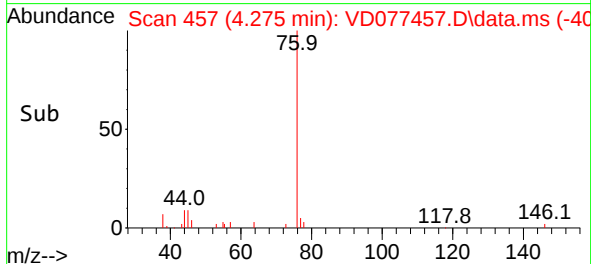
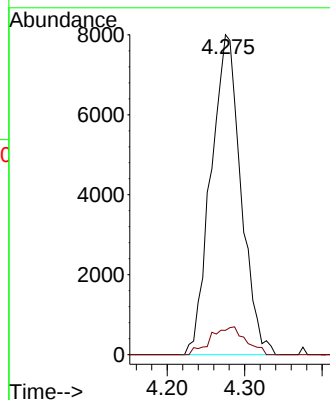
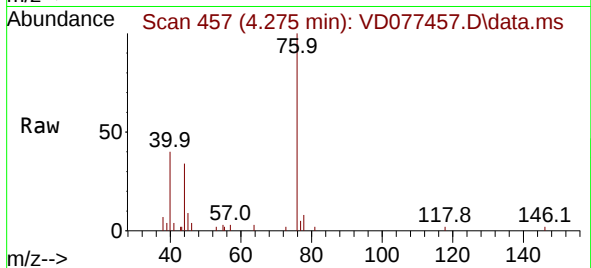
78 7.6 6.8 10.2

Manual Integrations

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Reviewed By :John Carlone 11/01/2023

Supervised By :Mahesh Dadoda 11/01/2023



#18

Methyl Acetate

Concen: 3.995 ug/l

RT: 4.563 min Scan# 506

Delta R.T. 0.000 min

Lab File: VD077457.D

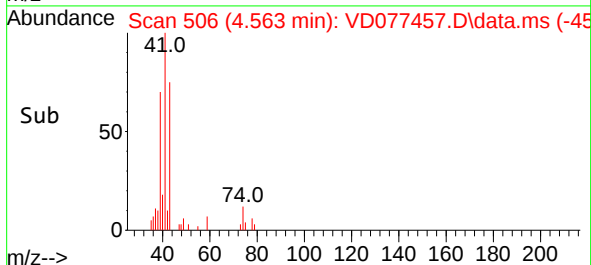
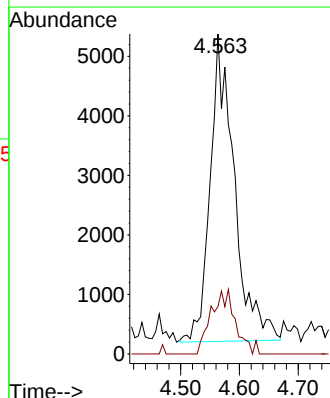
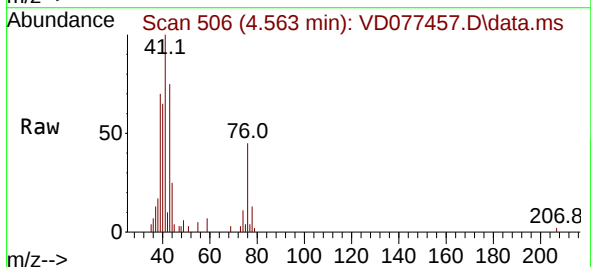
Acq: 31 Oct 2023 13:31

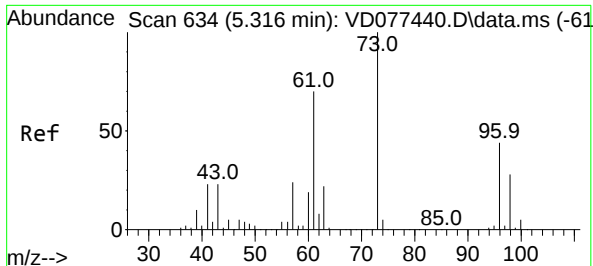
Tgt Ion: 43 Resp: 14688

Ion Ratio Lower Upper

43 100

74 21.1 26.4 39.6#





#19

Methyl tert-butyl Ether

Concen: 3.981 ug/l

RT: 5.316 min Scan# 61

Delta R.T. -0.000 min

Lab File: VD077457.D

Acq: 31 Oct 2023 13:31

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT4-2023

Tgt Ion: 73 Resp: 3363

Ion Ratio Lower Upper

73 100

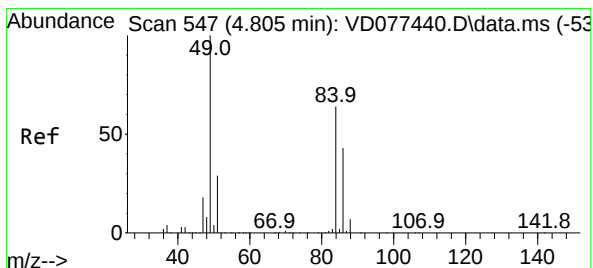
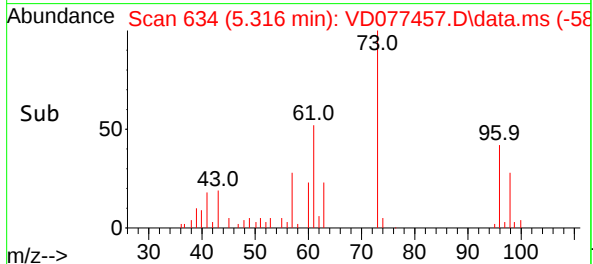
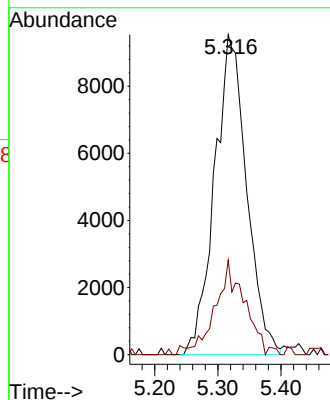
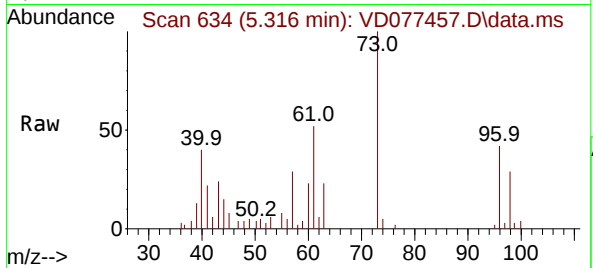
57 29.5 16.6 25.0

Manual Integrations

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Reviewed By :John Carlone 11/01/2023

Supervised By :Mahesh Dadoda 11/01/2023



#20

Methylene Chloride

Concen: 6.223 ug/l

RT: 4.799 min Scan# 546

Delta R.T. -0.006 min

Lab File: VD077457.D

Acq: 31 Oct 2023 13:31

Tgt Ion: 84 Resp: 31599

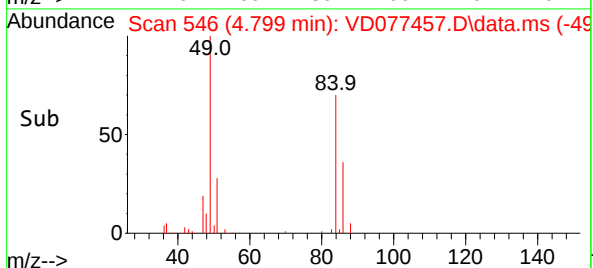
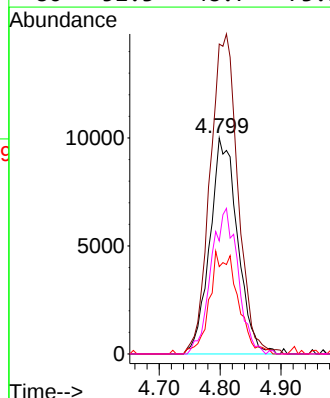
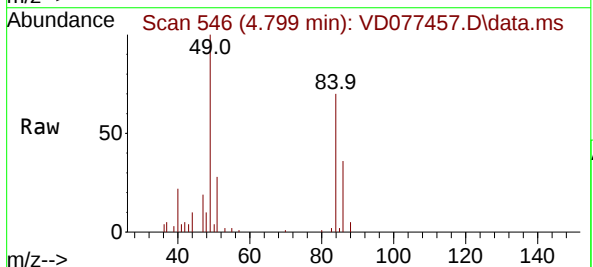
Ion Ratio Lower Upper

84 100

49 143.5 71.4 107.2#

51 40.4 24.5 36.7#

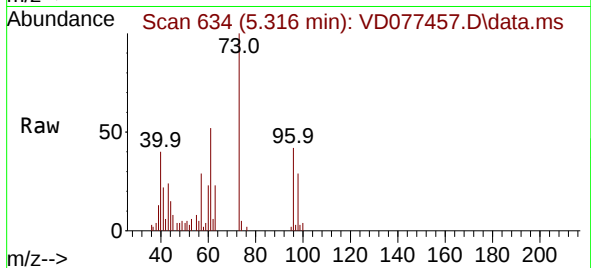
86 52.3 48.7 73.1





#21
trans-1,2-Dichloroethene
Concen: 3.861 ug/l
RT: 5.316 min Scan# 611
Delta R.T. 0.006 min
Lab File: VD077457.D
Acq: 31 Oct 2023 13:31

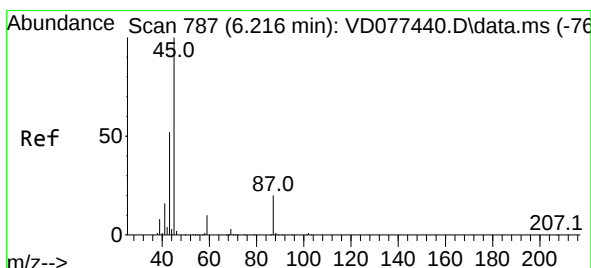
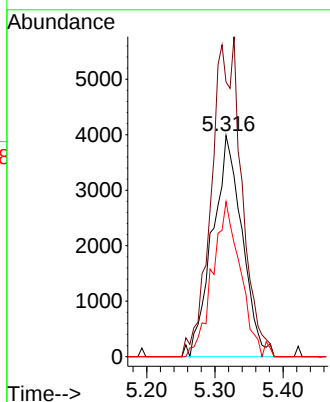
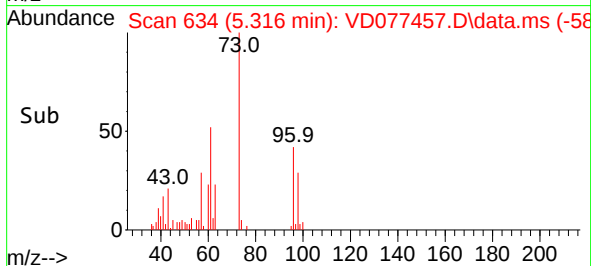
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT4-2023



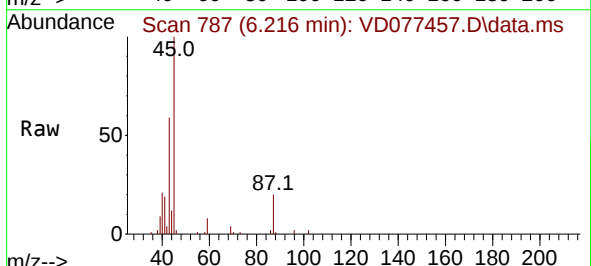
Tgt Ion: 96 Resp: 1210
Ion Ratio Lower Upper
96 100
61 124.2 89.3 133.9
98 70.1 48.6 73.0

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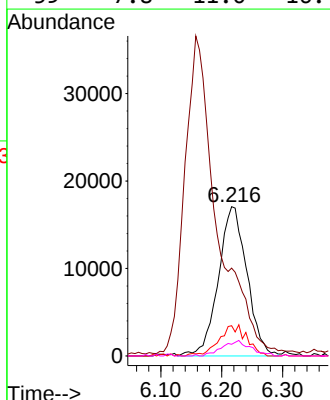
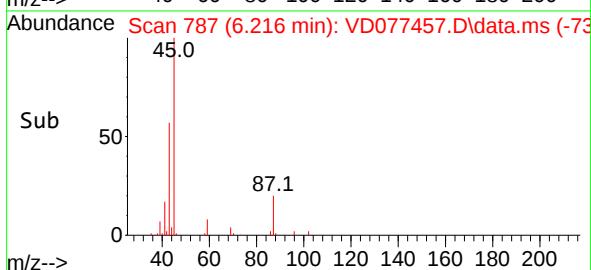
Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023

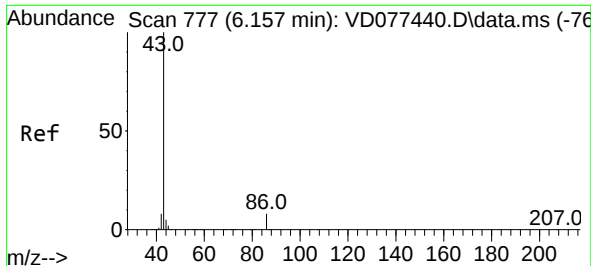


#22
Diisopropyl ether
Concen: 4.036 ug/l
RT: 6.216 min Scan# 787
Delta R.T. -0.000 min
Lab File: VD077457.D
Acq: 31 Oct 2023 13:31



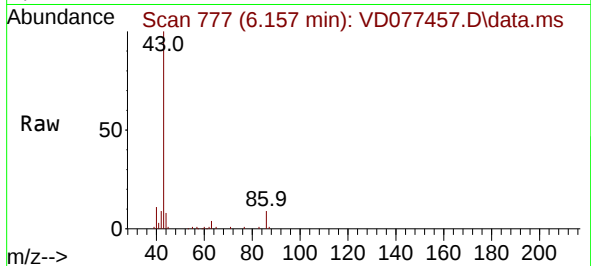
Tgt Ion: 45 Resp: 55688
Ion Ratio Lower Upper
45 100
43 55.3 40.0 60.0
87 20.3 28.2 42.4#
59 7.8 11.0 16.4#





#23
 Vinyl Acetate
 Concen: 19.358 ug/l m
 RT: 6.157 min Scan# 777
 Delta R.T. -0.000 min
 Lab File: VD077457.D
 Acq: 31 Oct 2023 13:31

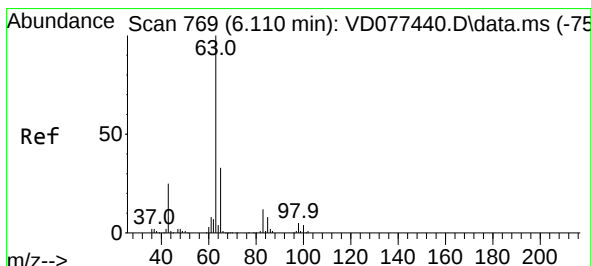
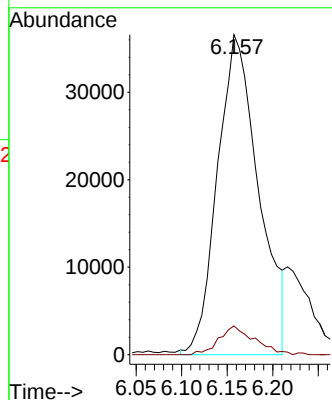
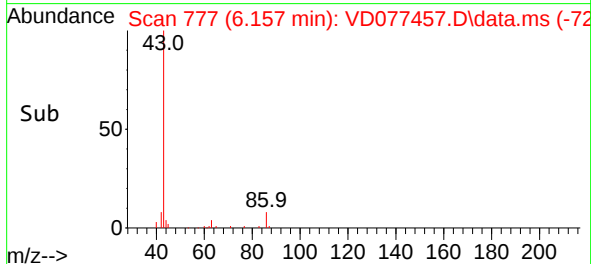
Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT4-2023



Tgt Ion: 43 Resp: 115239
 Ion Ratio Lower Upper
 43 100
 86 9.0 12.5 18.7

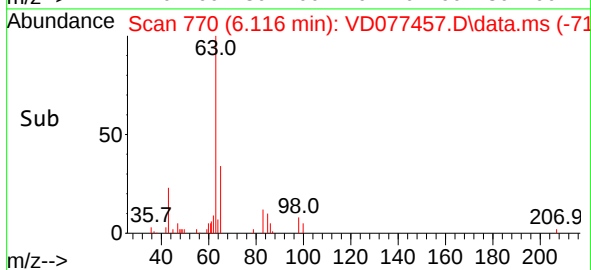
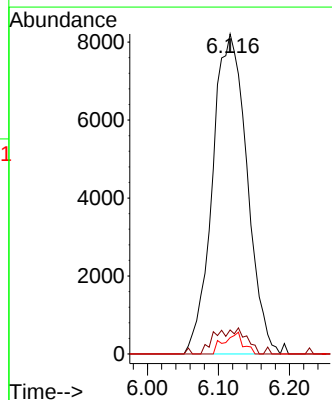
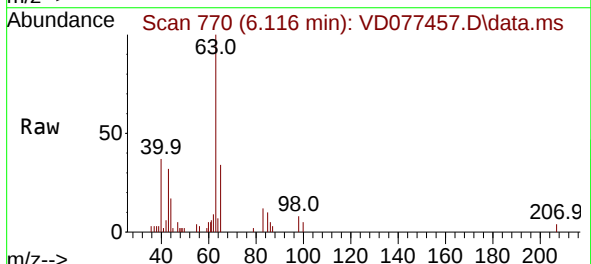
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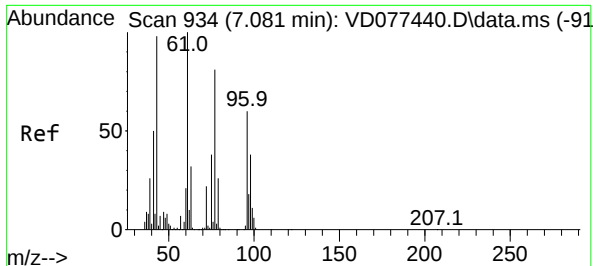
Reviewed By :John Carlone 11/01/2023
 Supervised By :Mahesh Dadoda 11/01/2023



#24
 1,1-Dichloroethane
 Concen: 3.869 ug/l
 RT: 6.116 min Scan# 770
 Delta R.T. 0.006 min
 Lab File: VD077457.D
 Acq: 31 Oct 2023 13:31

Tgt Ion: 63 Resp: 27698
 Ion Ratio Lower Upper
 63 100
 98 7.5 4.5 13.7
 100 5.1 2.5 7.5





#25

2-Butanone

Concen: 25.351 ug/l

RT: 7.081 min Scan# 934

Delta R.T. -0.000 min

Lab File: VD077457.D

Acq: 31 Oct 2023 13:31

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT4-2023

Tgt Ion: 43 Resp: 34080

Ion Ratio Lower Upper

43 100

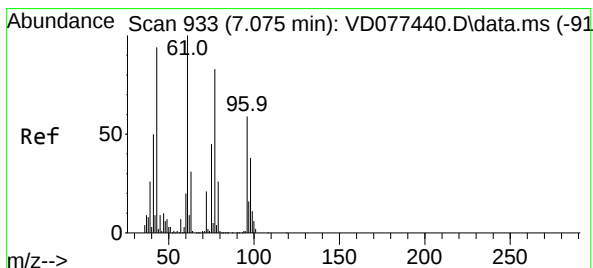
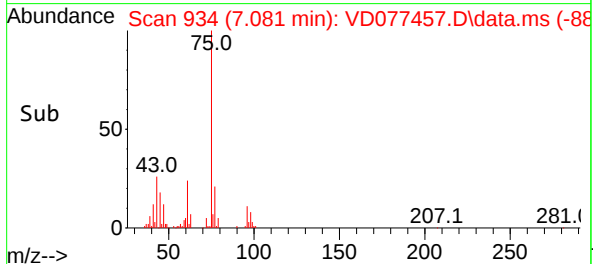
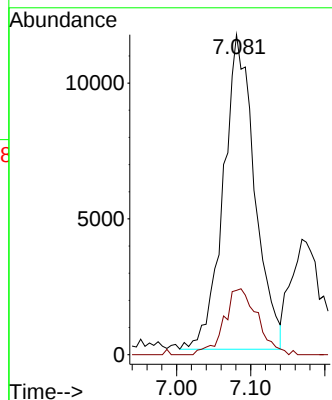
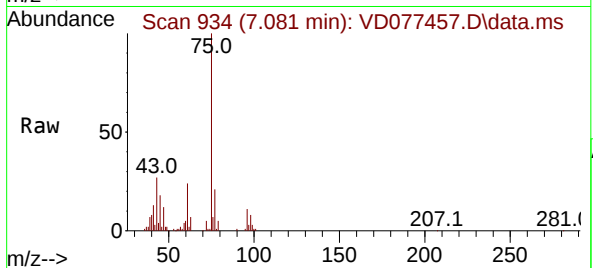
72 20.4 30.7 46.1

Manual Integrations

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Reviewed By :John Carlone 11/01/2023

Supervised By :Mahesh Dadoda 11/01/2023



#26

2,2-Dichloropropane

Concen: 4.743 ug/l

RT: 7.081 min Scan# 934

Delta R.T. 0.006 min

Lab File: VD077457.D

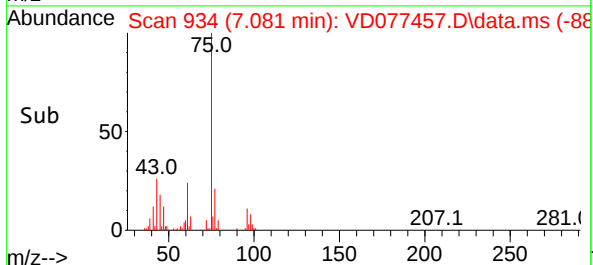
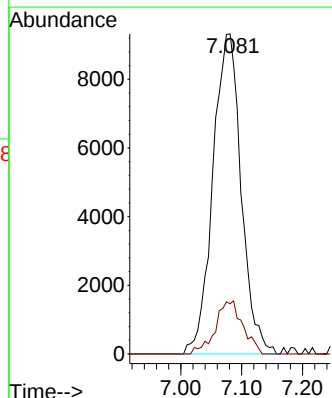
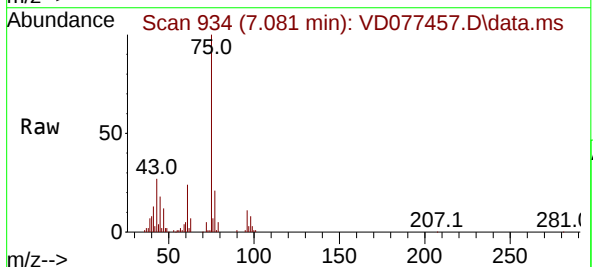
Acq: 31 Oct 2023 13:31

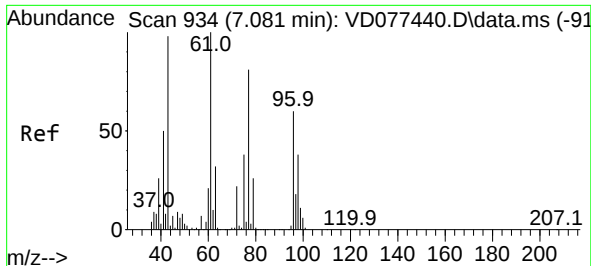
Tgt Ion: 77 Resp: 30092

Ion Ratio Lower Upper

77 100

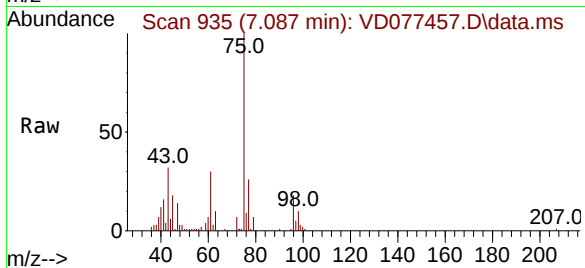
97 16.0 13.2 39.6





#27
cis-1,2-Dichloroethene
Concen: 3.945 ug/l
RT: 7.087 min Scan# 911
Delta R.T. 0.006 min
Lab File: VD077457.D
Acq: 31 Oct 2023 13:31

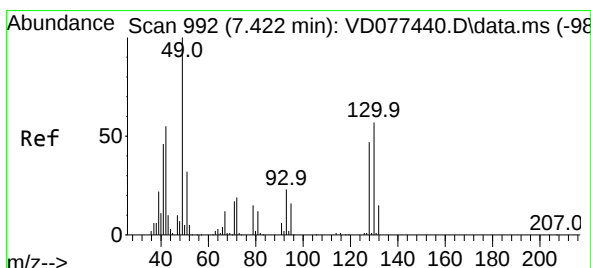
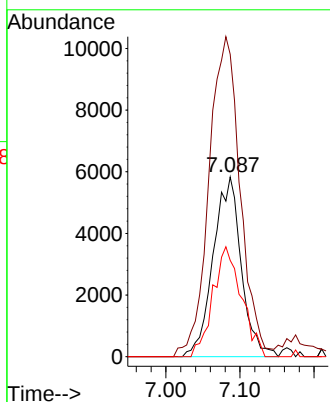
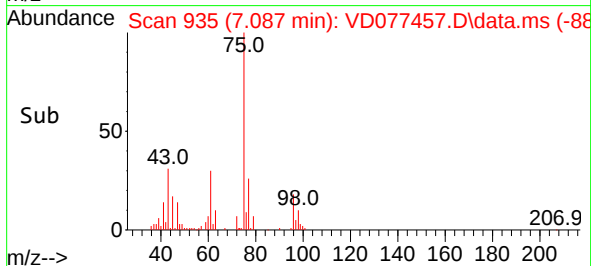
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT4-2023



Tgt Ion: 96 Resp: 15318
Ion Ratio Lower Upper
96 100
61 198.6 0.0 239.2
98 62.3 0.0 128.6

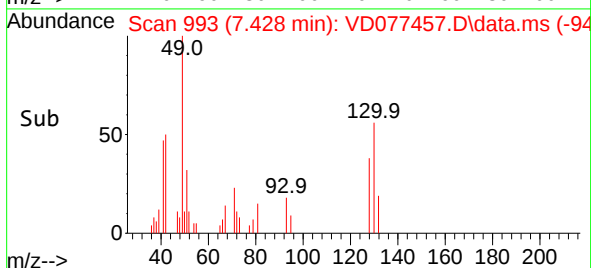
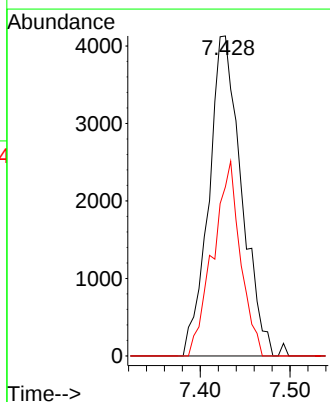
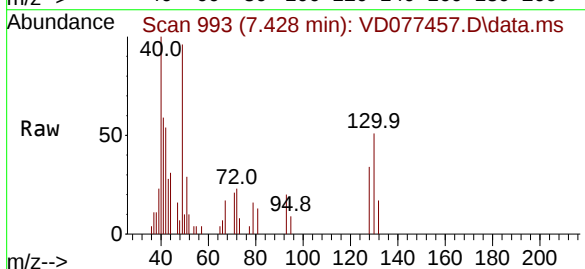
Manual Integrations
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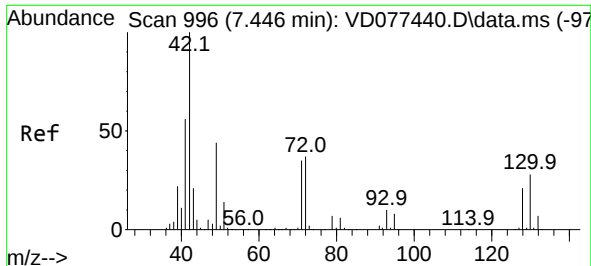
Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023



#28
Bromochloromethane
Concen: 5.185 ug/l
RT: 7.428 min Scan# 993
Delta R.T. 0.006 min
Lab File: VD077457.D
Acq: 31 Oct 2023 13:31

Tgt Ion: 49 Resp: 10436
Ion Ratio Lower Upper
49 100
129 0.0 0.0 6.0
130 51.0 83.2 124.8#





#29

Tetrahydrofuran

Concen: 20.057 ug/l

RT: 7.451 min Scan# 996

Delta R.T. 0.006 min

Lab File: VD077457.D

Acq: 31 Oct 2023 13:31

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT4-2023

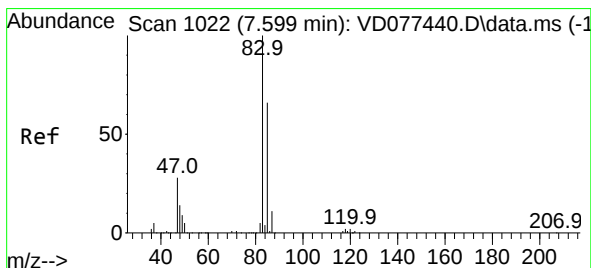
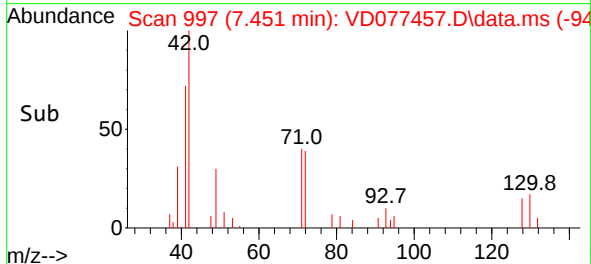
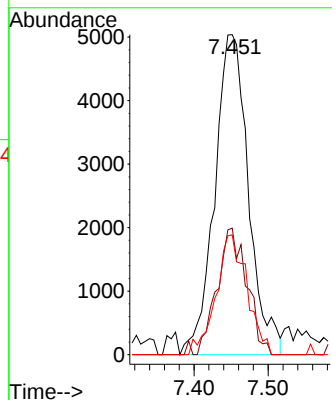
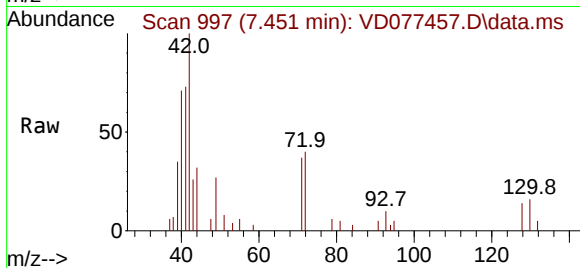
Tgt Ion:	42	Resp:	1599
Ion Ratio	Lower	Upper	
42	100		
72	34.8	46.5	69.7
71	34.3	44.5	66.7

Manual Integrations

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Reviewed By :John Carlone 11/01/2023

Supervised By :Mahesh Dadoda 11/01/2023



#30

Chloroform

Concen: 3.907 ug/l

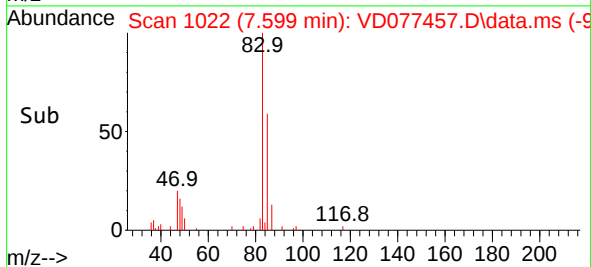
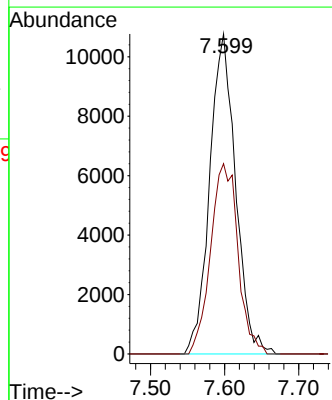
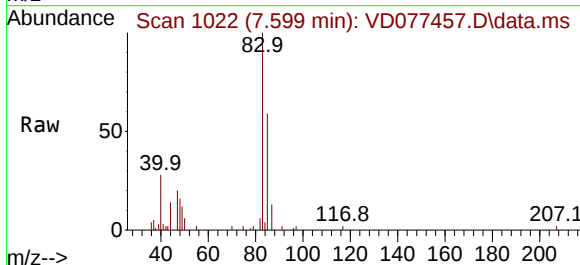
RT: 7.599 min Scan# 1022

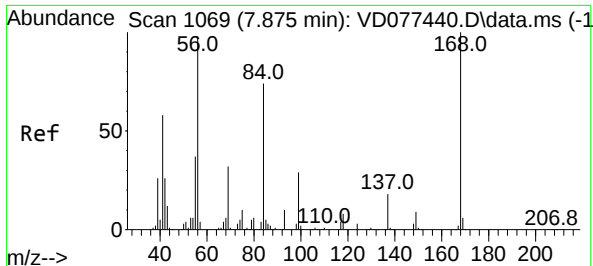
Delta R.T. -0.000 min

Lab File: VD077457.D

Acq: 31 Oct 2023 13:31

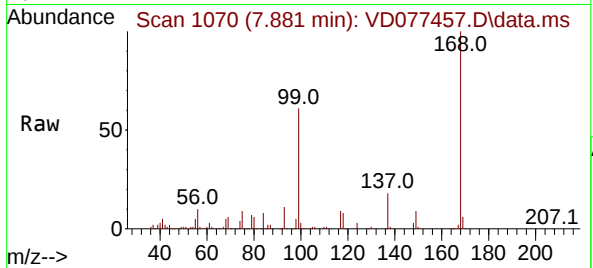
Tgt Ion:	83	Resp:	26122
Ion Ratio	Lower	Upper	
83	100		
85	59.5	53.4	80.2





#31
Cyclohexane
Concen: 4.854 ug/l
RT: 7.881 min Scan# 1070
Delta R.T. 0.006 min
Lab File: VD077457.D
Acq: 31 Oct 2023 13:31

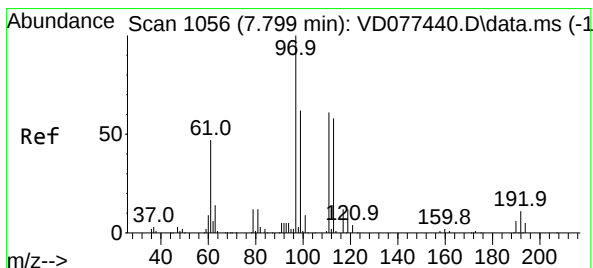
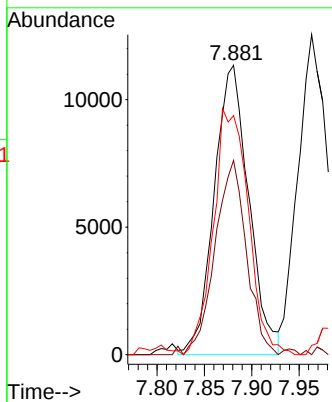
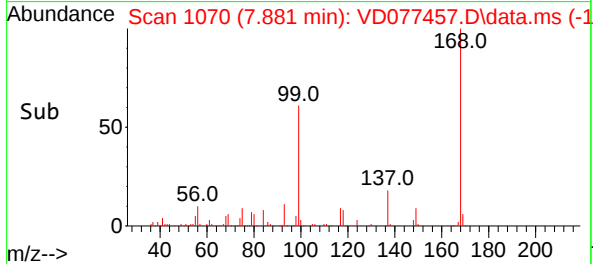
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT4-2023



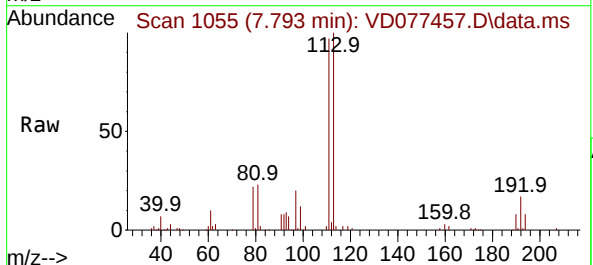
Tgt Ion: 56 Resp: 28904
Ion Ratio Lower Upper
56 100
69 68.1 28.6 43.0
84 82.5 84.8 127.2

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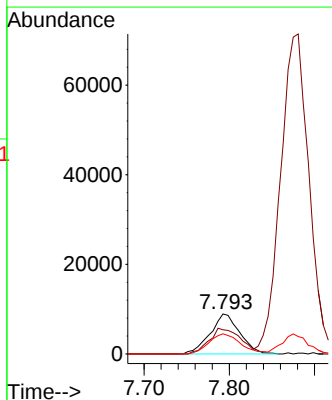
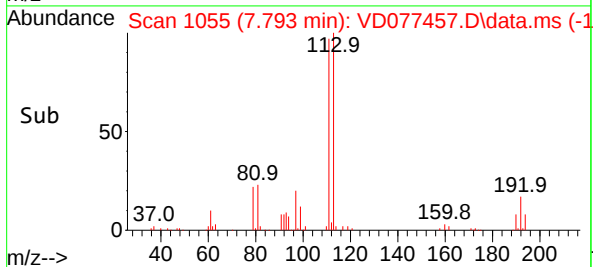
Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023

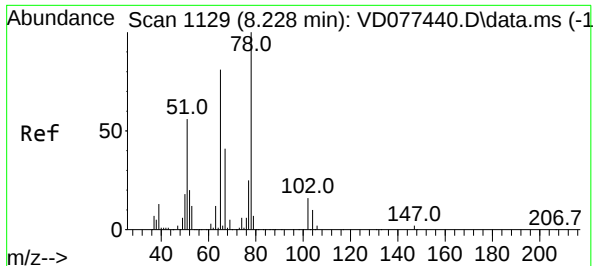


#32
1,1,1-Trichloroethane
Concen: 3.899 ug/l
RT: 7.793 min Scan# 1055
Delta R.T. -0.006 min
Lab File: VD077457.D
Acq: 31 Oct 2023 13:31



Tgt Ion: 97 Resp: 21477
Ion Ratio Lower Upper
97 100
99 67.1 52.0 78.0
61 53.9 33.8 50.8





#33

1,2-Dichloroethane-d4

Concen: 51.346 ug/l

RT: 8.234 min Scan# 1129

Delta R.T. 0.006 min

Lab File: VD077457.D

Acq: 31 Oct 2023 13:31

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT4-2023

Tgt Ion: 65 Resp: 195570

Ion Ratio Lower Upper

65 100

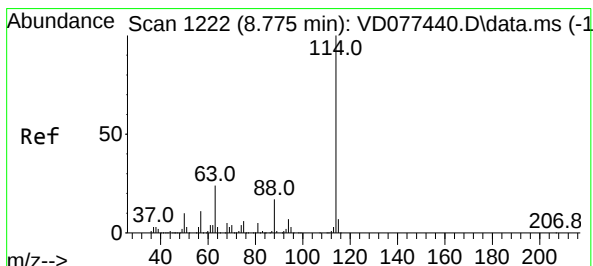
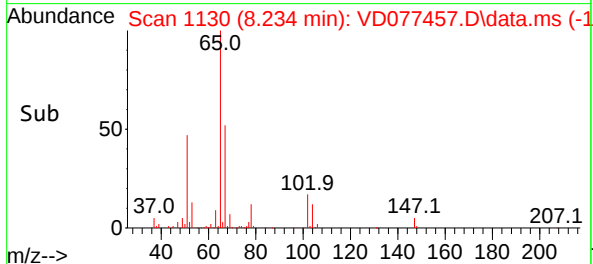
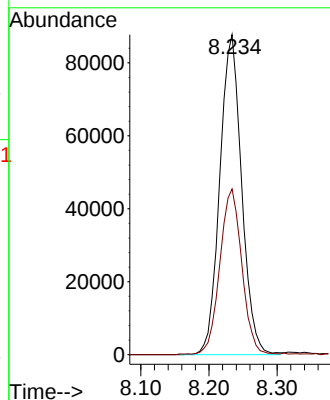
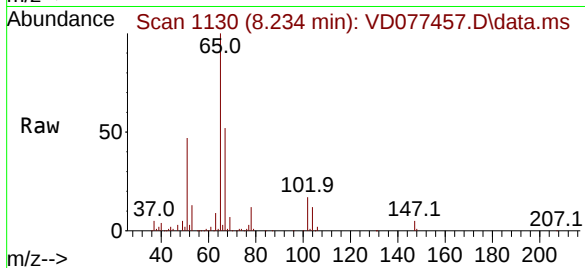
67 52.3 0.0 115.0

Manual Integrations

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Reviewed By :John Carlone 11/01/2023

Supervised By :Mahesh Dadoda 11/01/2023



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.781 min Scan# 1223

Delta R.T. 0.006 min

Lab File: VD077457.D

Acq: 31 Oct 2023 13:31

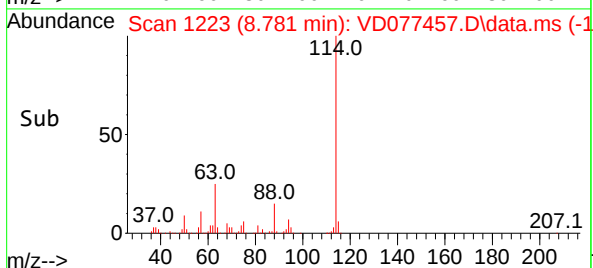
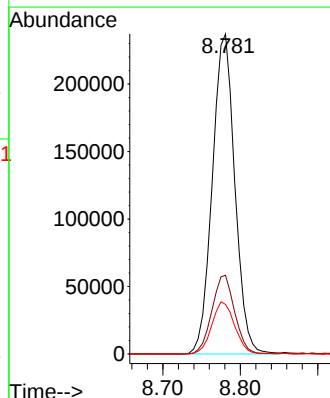
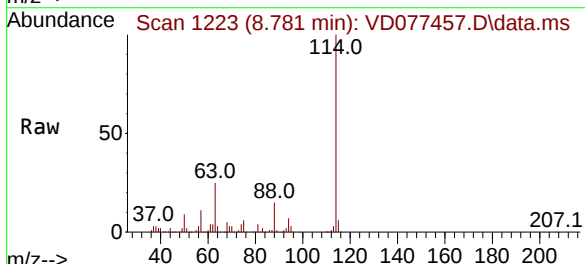
Tgt Ion:114 Resp: 478350

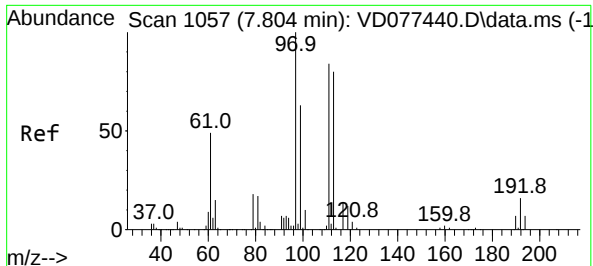
Ion Ratio Lower Upper

114 100

63 24.6 0.0 33.4

88 15.5 0.0 26.2





#35

Dibromofluoromethane

Concen: 50.996 ug/l

RT: 7.810 min Scan# 1058

Delta R.T. 0.006 min

Lab File: VD077457.D

Acq: 31 Oct 2023 13:31

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT4-2023

Tgt Ion: 113 Resp: 168600

Ion Ratio Lower Upper

113 100

111 103.1 84.7 127.1

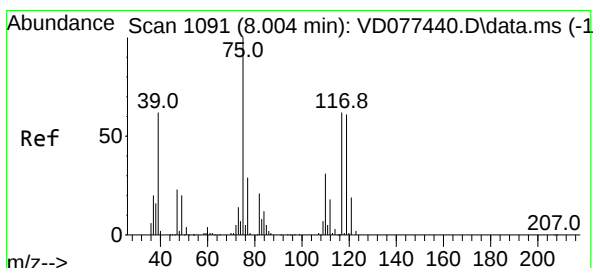
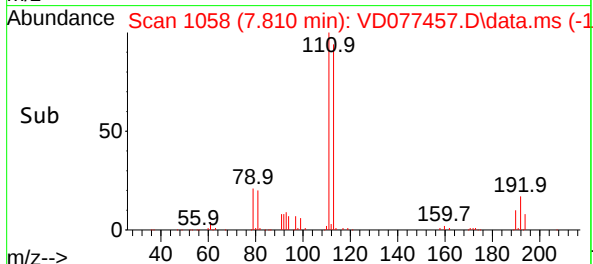
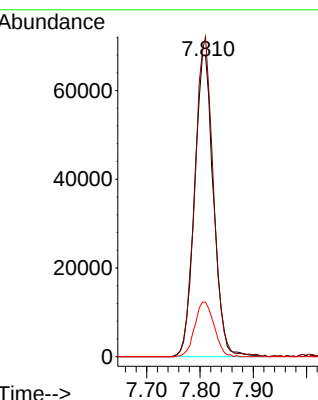
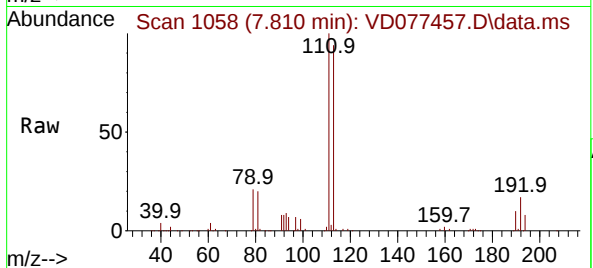
192 18.5 16.8 25.2

Manual Integrations

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Reviewed By :John Carlone 11/01/2023

Supervised By :Mahesh Dadoda 11/01/2023



#36

1,1-Dichloropropene

Concen: 3.871 ug/l

RT: 8.010 min Scan# 1092

Delta R.T. 0.006 min

Lab File: VD077457.D

Acq: 31 Oct 2023 13:31

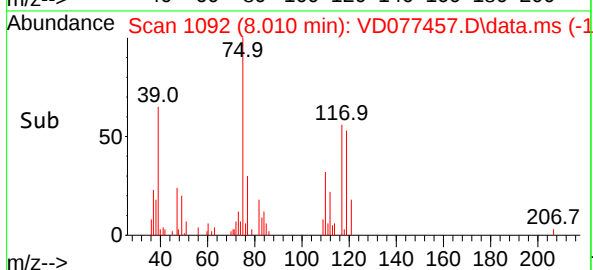
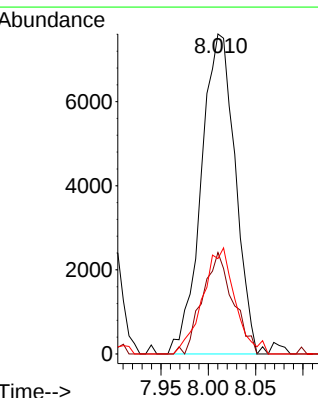
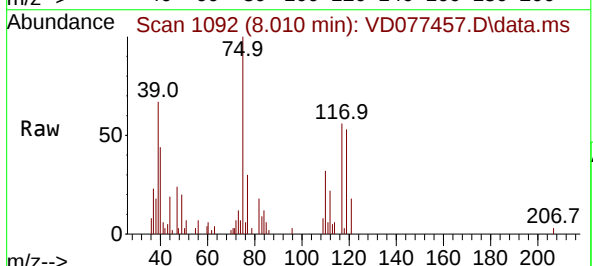
Tgt Ion: 75 Resp: 18974

Ion Ratio Lower Upper

75 100

110 28.6 19.9 59.6

77 31.6 24.7 37.1





#37

Ethyl Acetate

Concen: 4.068 ug/l

RT: 7.169 min Scan# 949

Delta R.T. -0.000 min

Lab File: VD077457.D

Acq: 31 Oct 2023 13:31

Instrument :

MSVOA_D

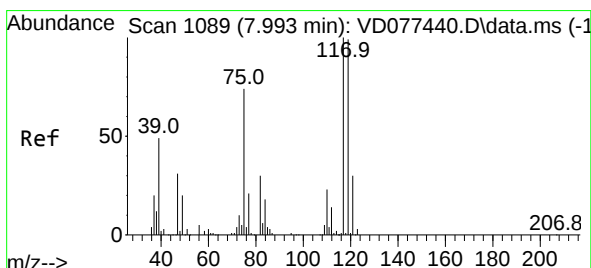
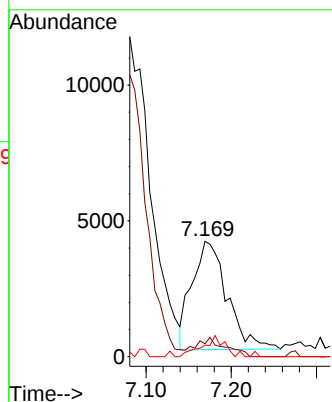
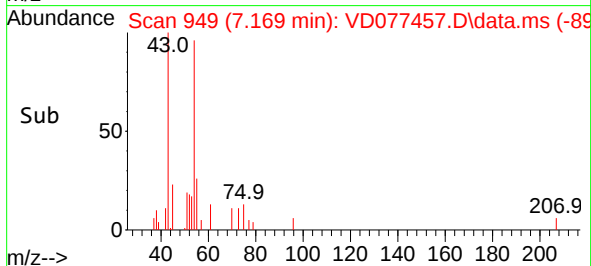
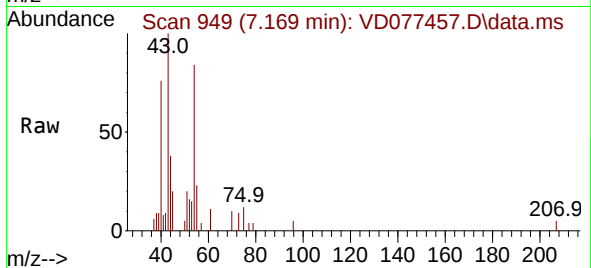
ClientSampleId :

MDL-SOIL-03-QT4-2023

Tgt Ion:	43	Resp:	1144
Ion	Ratio	Lower	Upper
43	100		
61	14.4	14.9	22.3
70	12.3	10.0	15.0

Manual Integrations
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Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023



#38

Carbon Tetrachloride

Concen: 3.965 ug/l

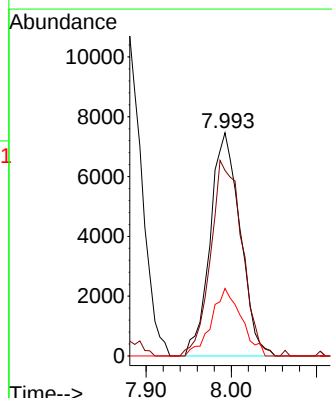
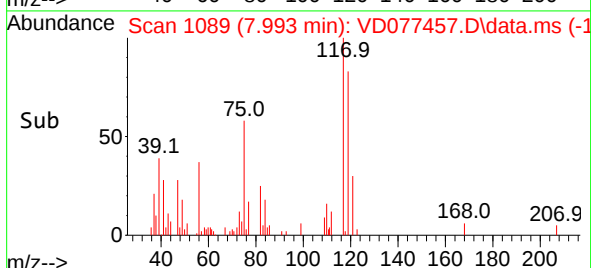
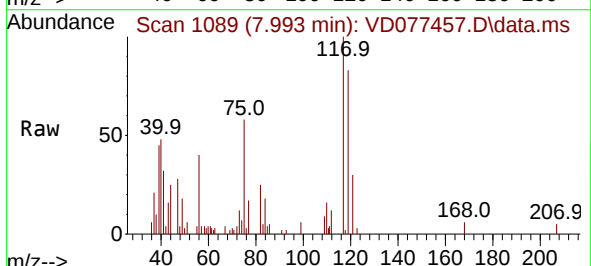
RT: 7.993 min Scan# 1089

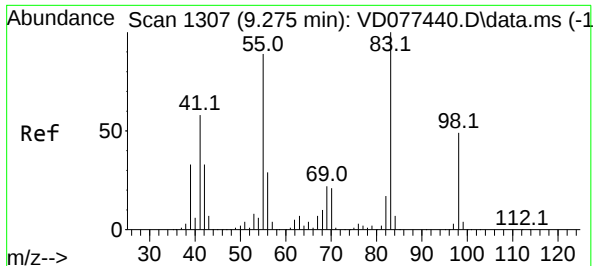
Delta R.T. -0.000 min

Lab File: VD077457.D

Acq: 31 Oct 2023 13:31

Tgt Ion:	117	Resp:	18315
Ion	Ratio	Lower	Upper
117	100		
119	83.2	78.0	117.0
121	30.3	24.2	36.2





#39

Methylcyclohexane

Concen: 3.571 ug/l

RT: 9.269 min Scan# 11306

Delta R.T. -0.006 min

Lab File: VD077457.D

Acq: 31 Oct 2023 13:31

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT4-2023

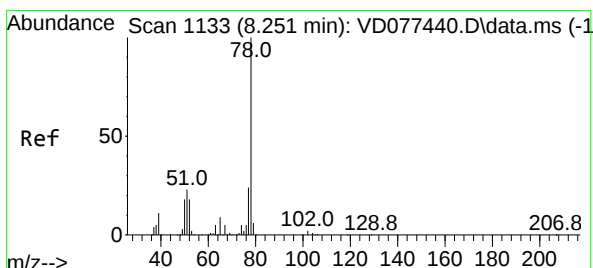
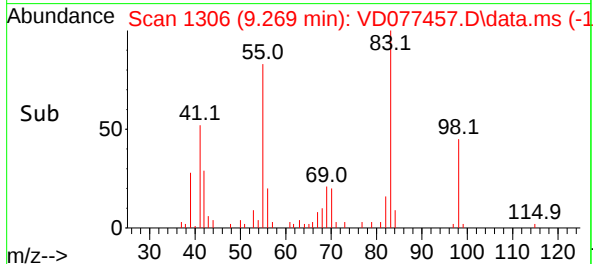
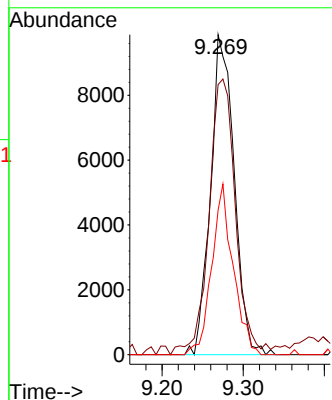
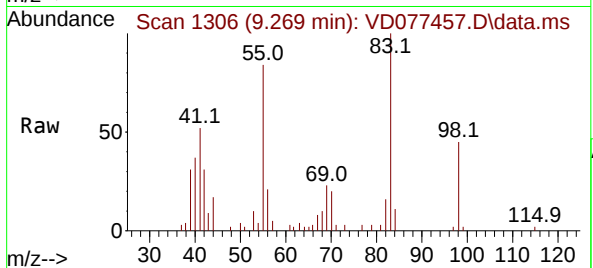
Tgt Ion: 83	Resp: 1997
Ion Ratio	Lower Upper
83	100
55	82.1 49.4 74.0
98	45.2 38.4 57.6

Manual Integrations

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Reviewed By :John Carlone 11/01/2023

Supervised By :Mahesh Dadoda 11/01/2023



#40

Benzene

Concen: 3.899 ug/l

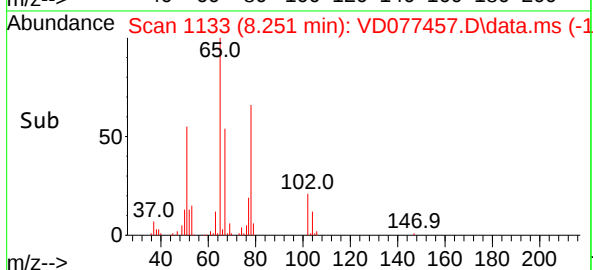
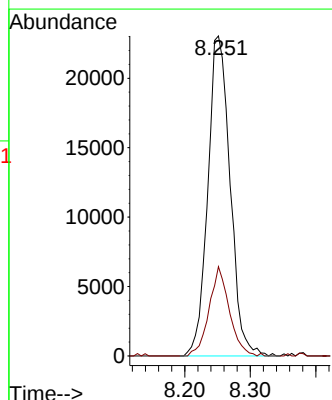
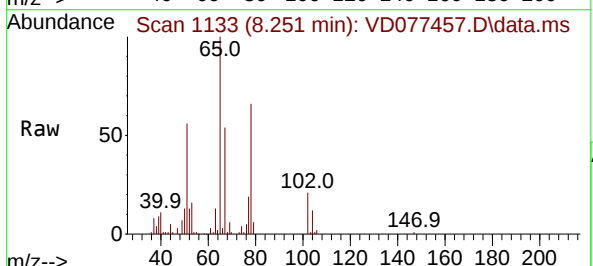
RT: 8.251 min Scan# 1133

Delta R.T. -0.000 min

Lab File: VD077457.D

Acq: 31 Oct 2023 13:31

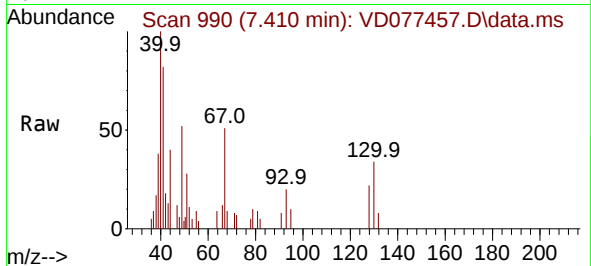
Tgt Ion: 78	Resp: 54498
Ion Ratio	Lower Upper
78	100
77	27.9 19.4 29.0





#41
Methacrylonitrile
Concen: 3.978 ug/l
RT: 7.410 min Scan# 989
Delta R.T. 0.006 min
Lab File: VD077457.D
Acq: 31 Oct 2023 13:31

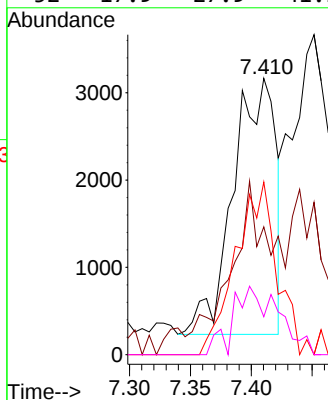
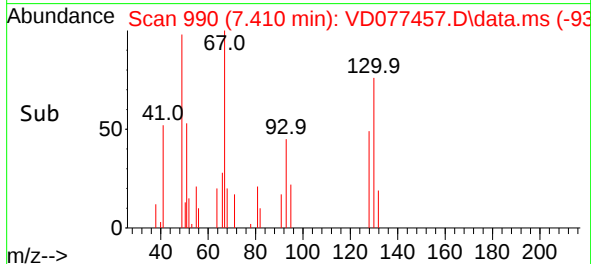
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT4-2023



Tgt Ion: 41 Resp: 716
Ion Ratio Lower Upper
41 100
39 53.0 34.0 51.0
67 65.0 77.0 115.4
52 17.9 27.9 41.9

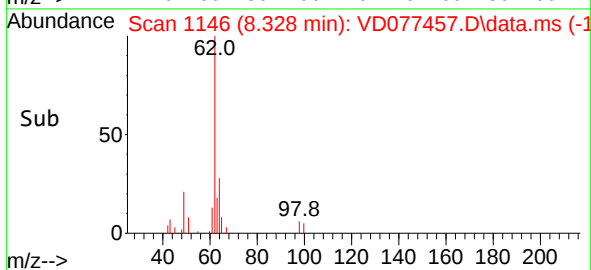
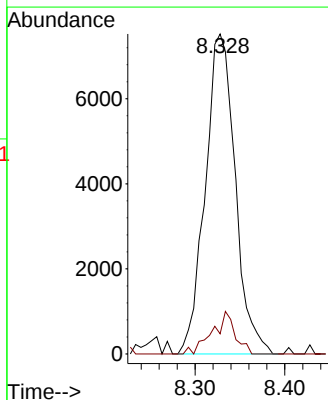
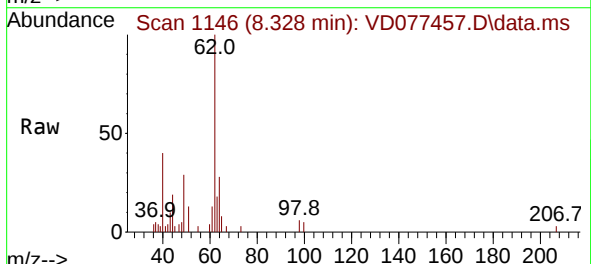
Manual Integrations
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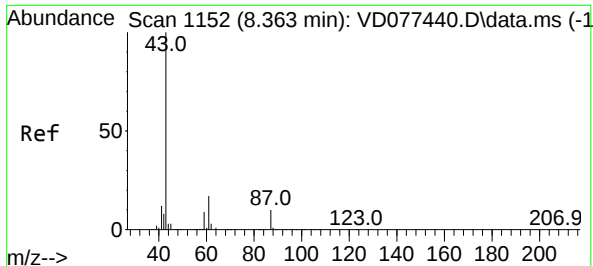
Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023



#42
1,2-Dichloroethane
Concen: 3.940 ug/l
RT: 8.328 min Scan# 1146
Delta R.T. -0.000 min
Lab File: VD077457.D
Acq: 31 Oct 2023 13:31

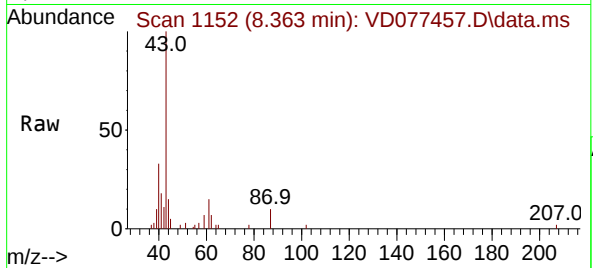
Tgt Ion: 62 Resp: 17443
Ion Ratio Lower Upper
62 100
98 10.1 0.0 25.4





#43
Isopropyl Acetate
Concen: 3.758 ug/l
RT: 8.363 min Scan# 1152
Delta R.T. -0.000 min
Lab File: VD077457.D
Acq: 31 Oct 2023 13:31

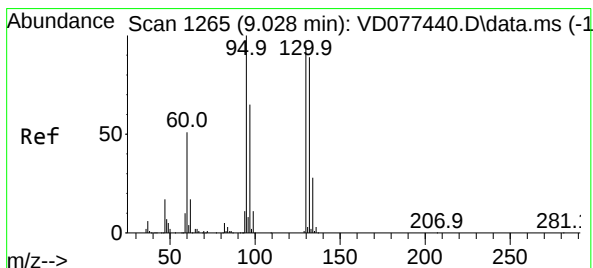
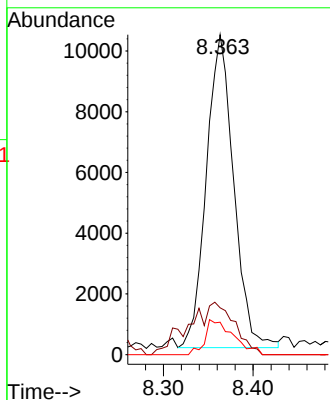
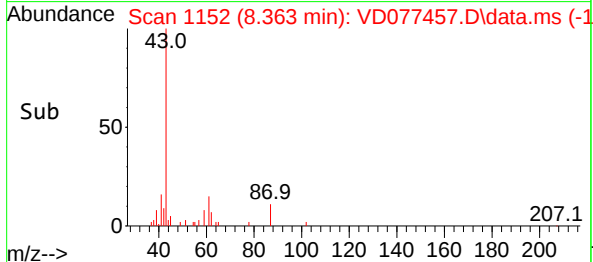
Instrument : MSVOA_D
ClientSampleId : MDL-SOIL-03-QT4-2023



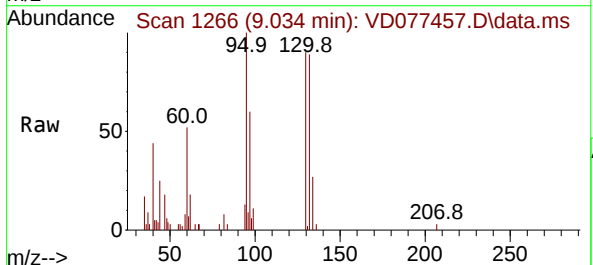
Tgt Ion: 43 Resp: 21814
Ion Ratio Lower Upper
43 100
61 23.4 31.4 47.0
87 11.5 14.9 22.3

Manual Integrations
APPROVED

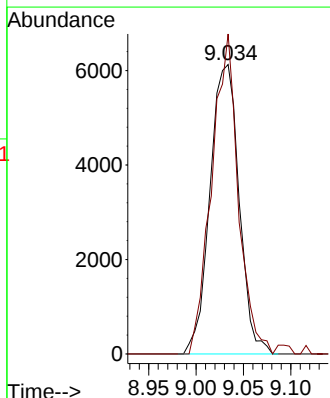
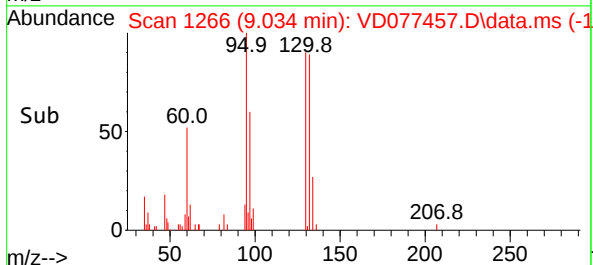
Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023

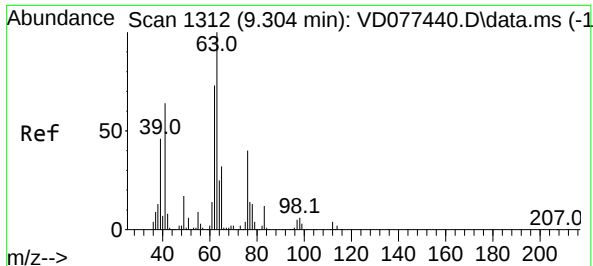


#44
Trichloroethene
Concen: 3.829 ug/l
RT: 9.034 min Scan# 1266
Delta R.T. 0.006 min
Lab File: VD077457.D
Acq: 31 Oct 2023 13:31



Tgt Ion:130 Resp: 13111
Ion Ratio Lower Upper
130 100
95 110.6 0.0 179.2





#45

1,2-Dichloropropane

Concen: 4.058 ug/l

RT: 9.304 min Scan# 1312

Delta R.T. -0.000 min

Lab File: VD077457.D

Acq: 31 Oct 2023 13:31

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT4-2023

Tgt Ion: 63 Resp: 16698

Ion Ratio Lower Upper

63 100

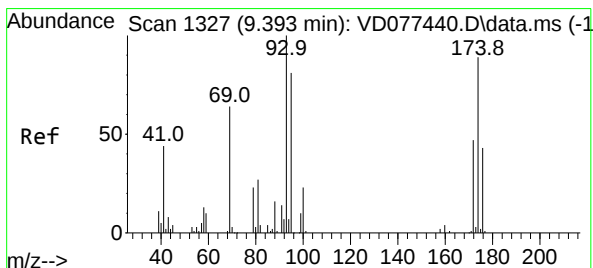
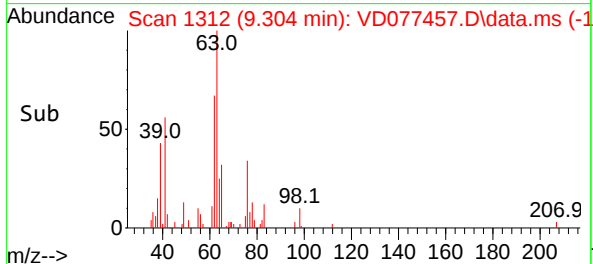
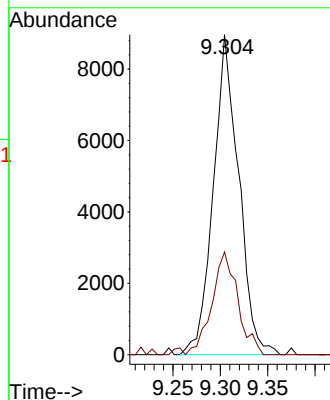
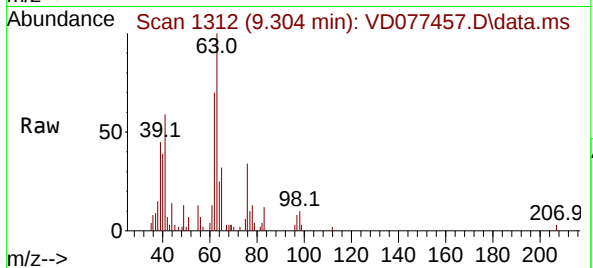
65 32.1 24.5 36.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/01/2023

Supervised By :Mahesh Dadoda 11/01/2023



#46

Dibromomethane

Concen: 3.457 ug/l

RT: 9.393 min Scan# 1327

Delta R.T. -0.000 min

Lab File: VD077457.D

Acq: 31 Oct 2023 13:31

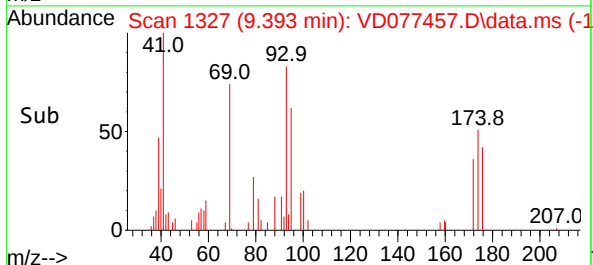
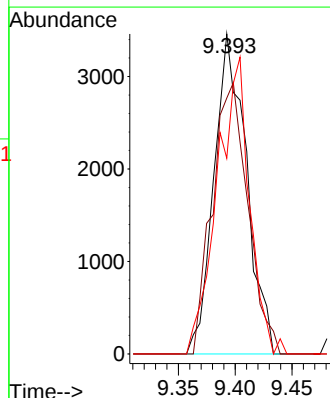
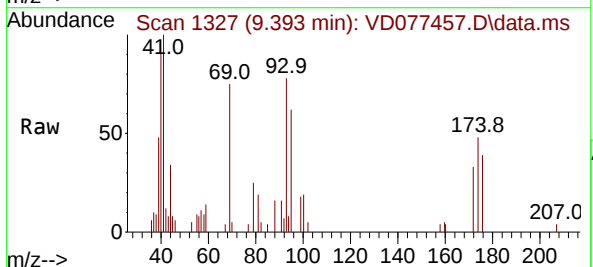
Tgt Ion: 93 Resp: 6846

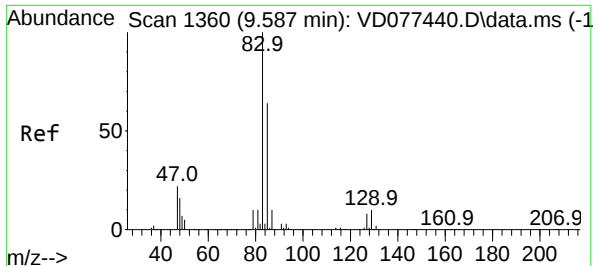
Ion Ratio Lower Upper

93 100

95 93.4 67.7 101.5

174 92.5 85.4 128.2





#47

Bromodichloromethane

Concen: 3.961 ug/l

RT: 9.587 min Scan# 1360

Delta R.T. -0.000 min

Lab File: VD077457.D

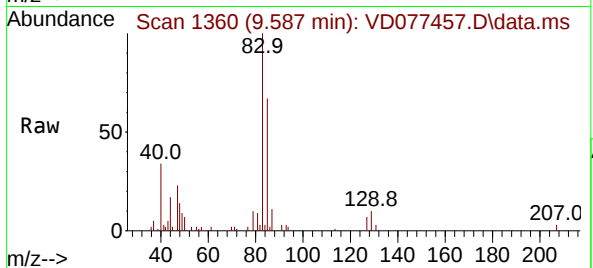
Acq: 31 Oct 2023 13:31

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT4-2023



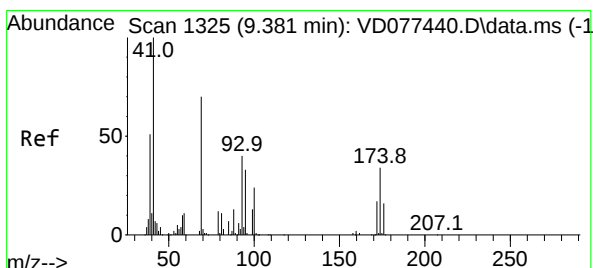
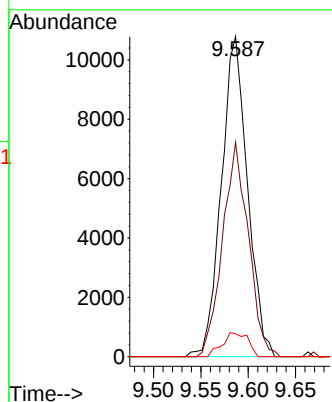
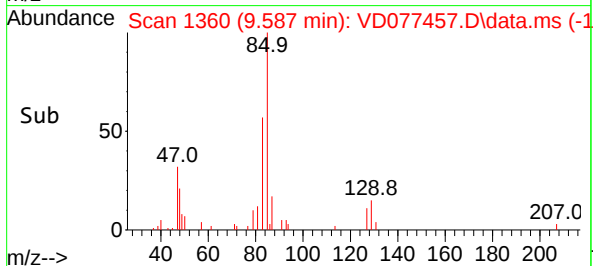
Tgt Ion:	83	Resp:	20730
Ion Ratio	Lower	Upper	
83	100		
85	67.0	50.2	75.4
127	7.2	6.3	9.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/01/2023

Supervised By :Mahesh Dadoda 11/01/2023



#48

Methyl methacrylate

Concen: 4.094 ug/l

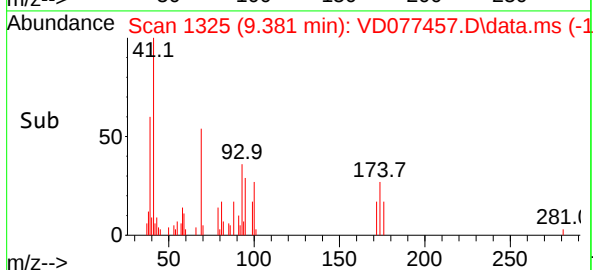
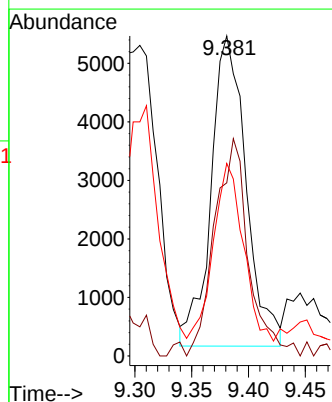
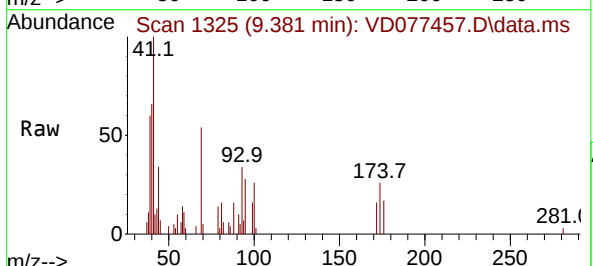
RT: 9.381 min Scan# 1325

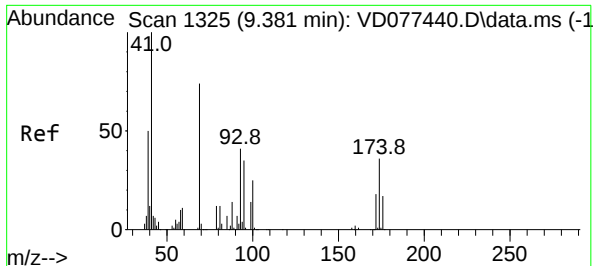
Delta R.T. -0.000 min

Lab File: VD077457.D

Acq: 31 Oct 2023 13:31

Tgt Ion:	41	Resp:	11344
Ion Ratio	Lower	Upper	
41	100		
69	68.0	102.2	153.2#
39	54.2	41.4	62.2





#49

1,4-Dioxane

Concen: 84.163 ug/l

RT: 9.381 min Scan# 11

Delta R.T. -0.000 min

Lab File: VD077457.D

Acq: 31 Oct 2023 13:31

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT4-2023

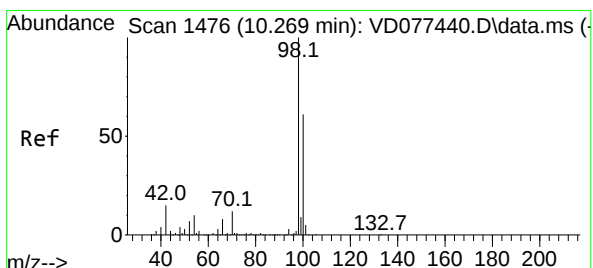
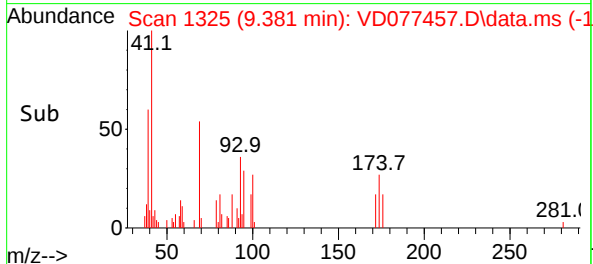
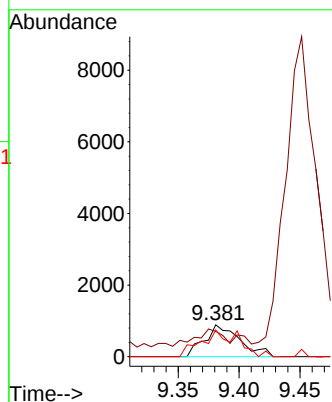
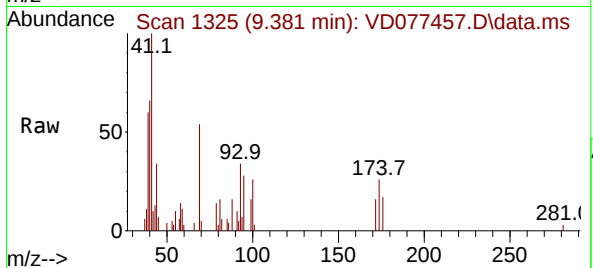
Tgt Ion:	88	Resp:	179
Ion	Ratio	Lower	Upper
88	100		
43	40.4	19.0	28.6
58	87.3	43.5	65.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/01/2023

Supervised By :Mahesh Dadoda 11/01/2023



#50

Toluene-d8

Concen: 52.548 ug/l

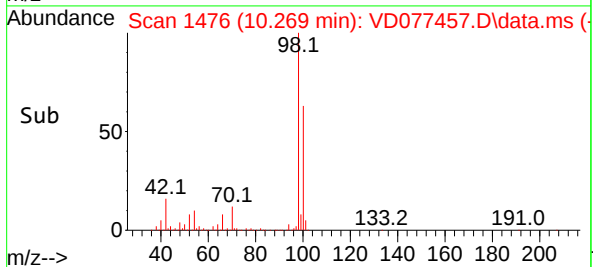
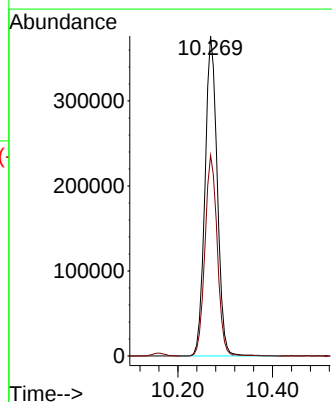
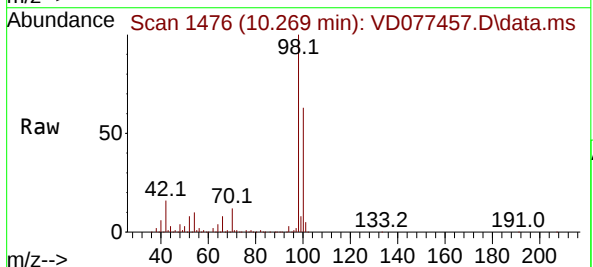
RT: 10.269 min Scan# 1476

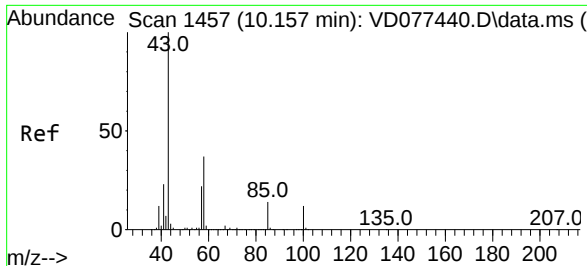
Delta R.T. -0.000 min

Lab File: VD077457.D

Acq: 31 Oct 2023 13:31

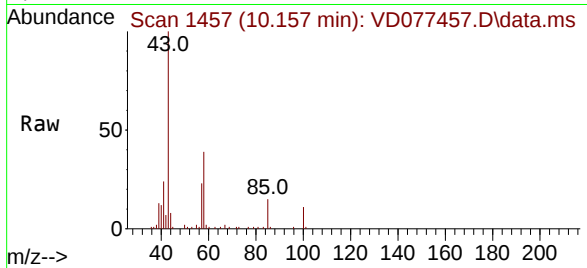
Tgt Ion:	98	Resp:	674820
Ion	Ratio	Lower	Upper
98	100		
100	63.2	50.3	75.5





#51
4-Methyl-2-Pentanone
Concen: 19.289 ug/l
RT: 10.157 min Scan# 1457
Delta R.T. -0.000 min
Lab File: VD077457.D
Acq: 31 Oct 2023 13:31

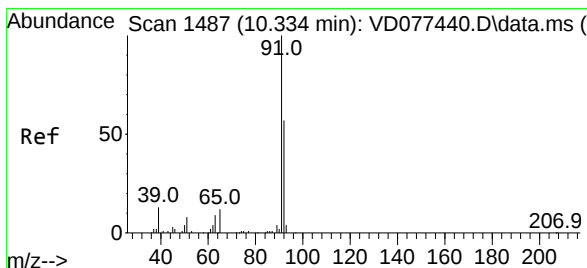
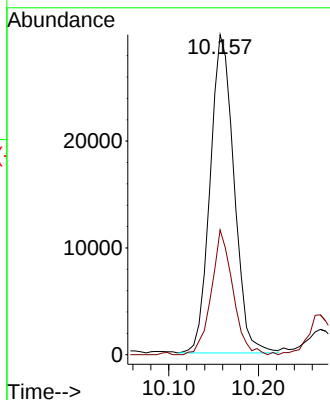
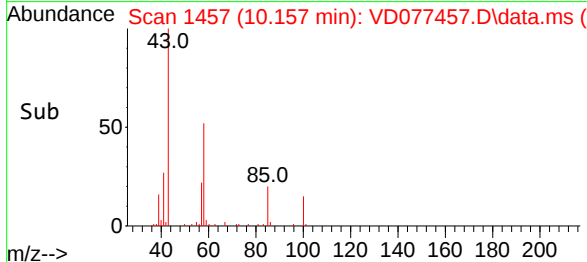
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT4-2023



Tgt Ion: 43 Resp: 55118
Ion Ratio Lower Upper
43 100
58 35.1 38.9 58.3

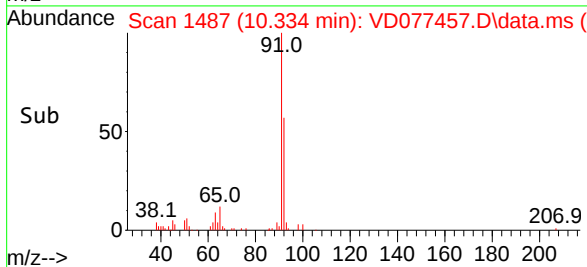
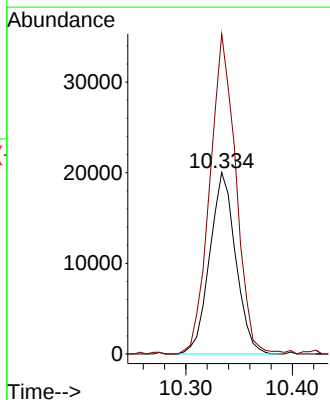
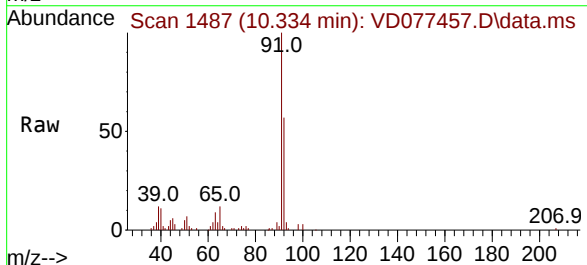
Manual Integrations
APPROVED

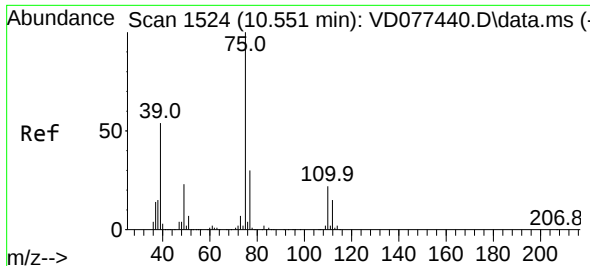
Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023



#52
Toluene
Concen: 3.975 ug/l
RT: 10.334 min Scan# 1487
Delta R.T. -0.000 min
Lab File: VD077457.D
Acq: 31 Oct 2023 13:31

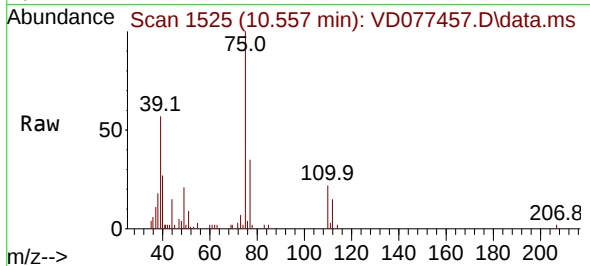
Tgt Ion: 92 Resp: 33876
Ion Ratio Lower Upper
92 100
91 177.0 143.0 214.4





#53
t-1,3-Dichloropropene
Concen: 3.917 ug/l
RT: 10.557 min Scan# 1525
Delta R.T. 0.006 min
Lab File: VD077457.D
Acq: 31 Oct 2023 13:31

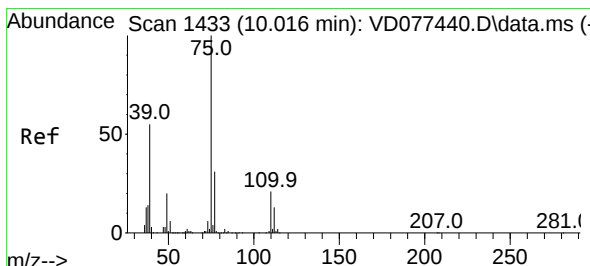
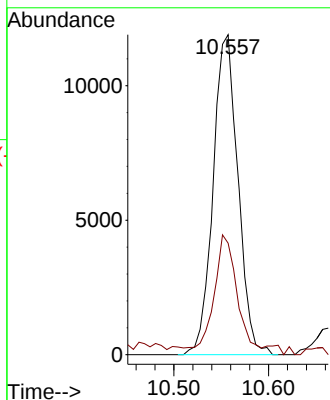
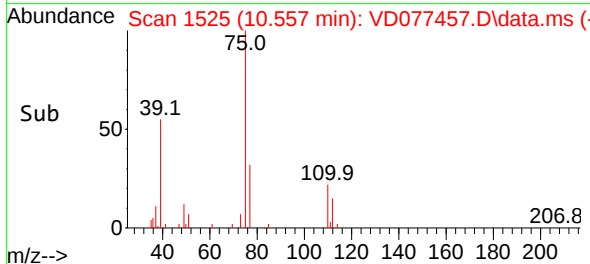
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT4-2023



Tgt Ion: 75 Resp: 21710
Ion Ratio Lower Upper
75 100
77 32.4 25.3 37.9

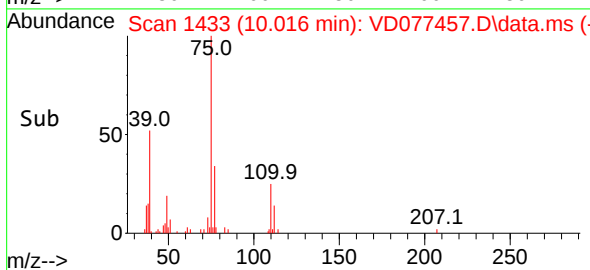
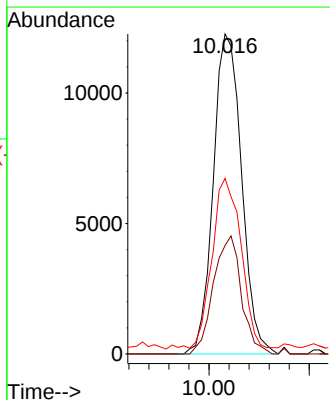
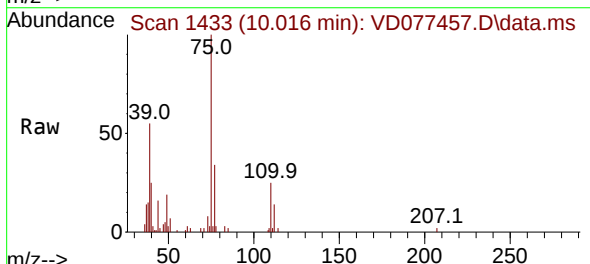
Manual Integrations
APPROVED

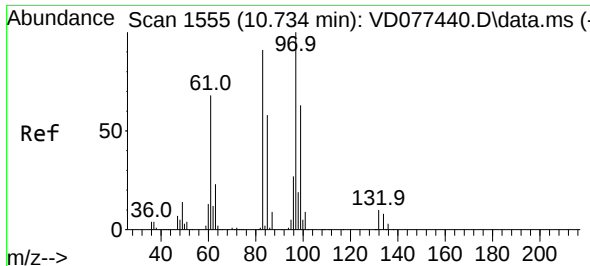
Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023



#54
cis-1,3-Dichloropropene
Concen: 3.762 ug/l
RT: 10.016 min Scan# 1433
Delta R.T. -0.000 min
Lab File: VD077457.D
Acq: 31 Oct 2023 13:31

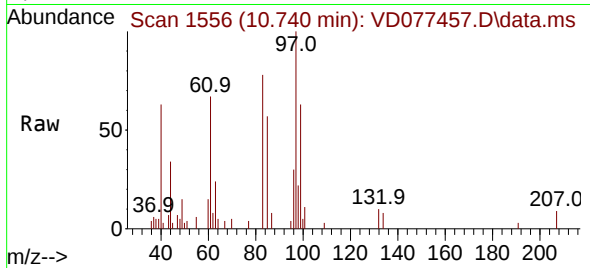
Tgt Ion: 75 Resp: 23993
Ion Ratio Lower Upper
75 100
77 33.9 25.5 38.3
39 52.9 22.1 33.1#





#55
1,1,2-Trichloroethane
Concen: 3.838 ug/l
RT: 10.740 min Scan# 1555
Delta R.T. 0.006 min
Lab File: VD077457.D
Acq: 31 Oct 2023 13:31

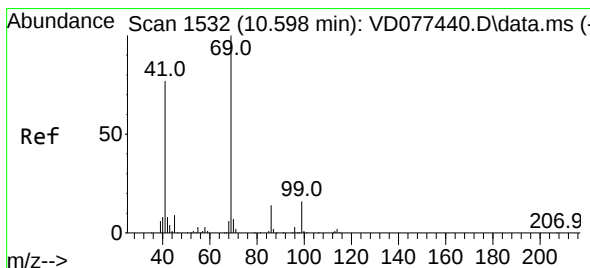
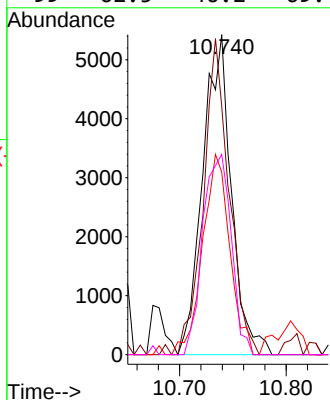
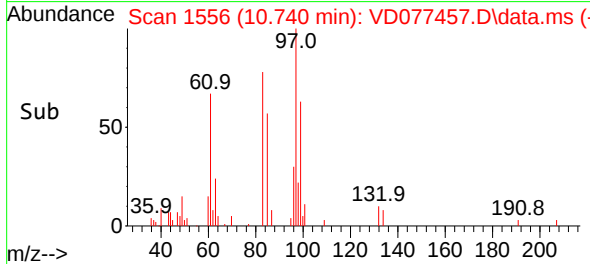
Instrument : MSVOA_D
ClientSampleId : MDL-SOIL-03-QT4-2023



Tgt Ion	Ratio	Lower	Upper
97	100		
83	77.7	65.8	98.6
85	53.0	45.7	68.5
99	62.5	46.2	69.4

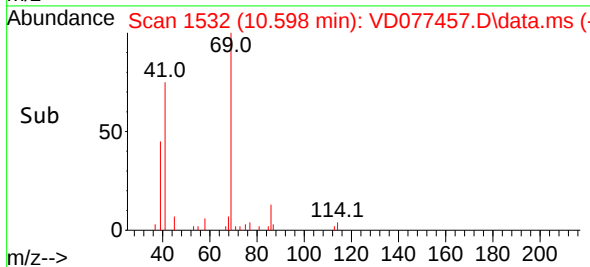
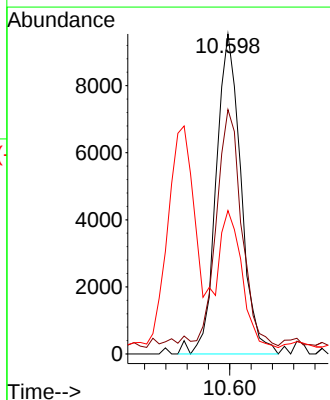
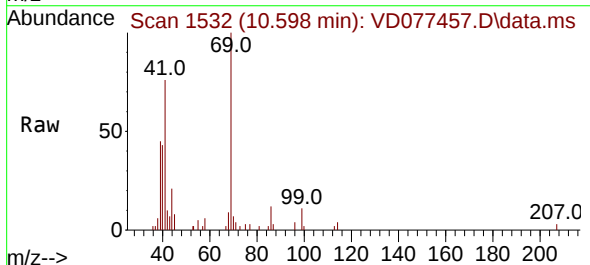
Manual Integrations
APPROVED

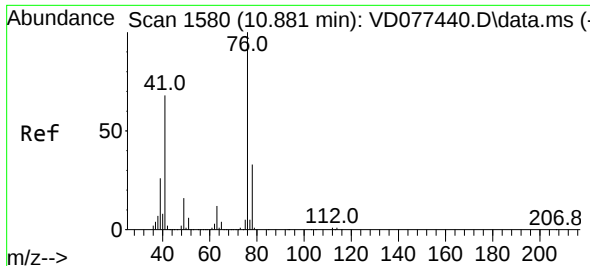
Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023



#56
Ethyl methacrylate
Concen: 3.929 ug/l
RT: 10.598 min Scan# 1532
Delta R.T. -0.000 min
Lab File: VD077457.D
Acq: 31 Oct 2023 13:31

Tgt Ion	Ratio	Lower	Upper
69	100		
41	79.2	39.1	58.7#
39	38.4	20.0	30.0#





#57

1,3-Dichloropropane

Concen: 3.977 ug/l

RT: 10.881 min Scan# 1580

Delta R.T. -0.000 min

Lab File: VD077457.D

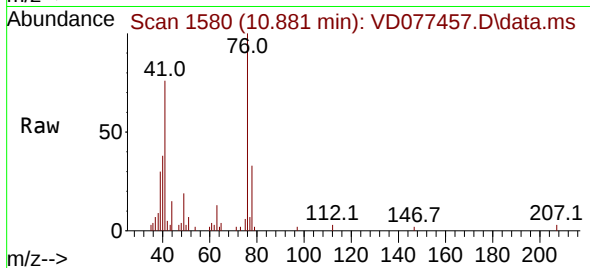
Acq: 31 Oct 2023 13:31

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT4-2023



Tgt Ion: 76 Resp: 19639

Ion Ratio Lower Upper

76 100

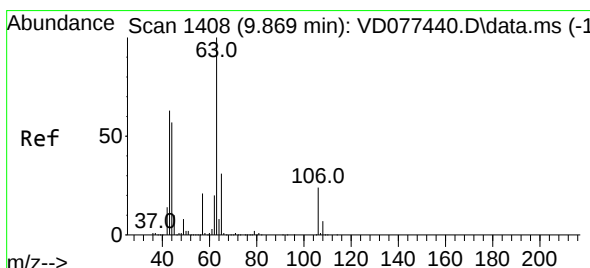
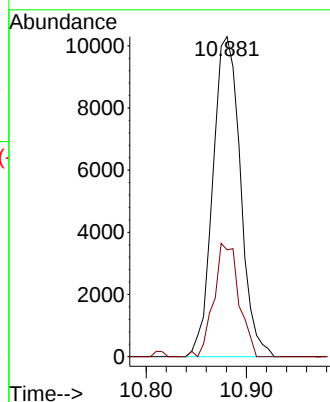
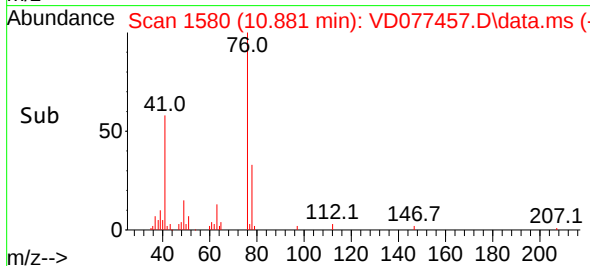
78 32.2 26.4 39.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/01/2023

Supervised By :Mahesh Dadoda 11/01/2023



#58

2-Chloroethyl Vinyl ether

Concen: 18.692 ug/l

RT: 9.869 min Scan# 1408

Delta R.T. -0.000 min

Lab File: VD077457.D

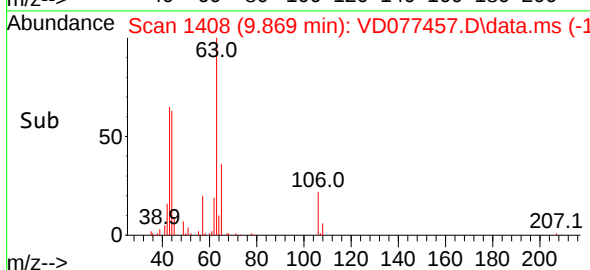
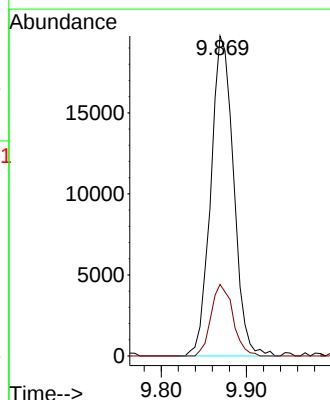
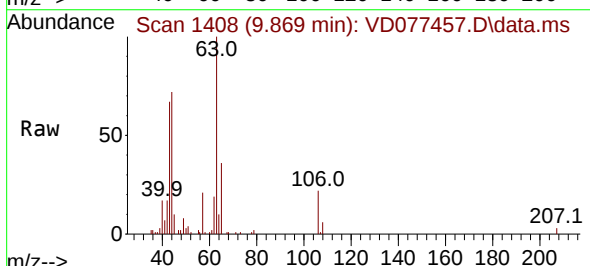
Acq: 31 Oct 2023 13:31

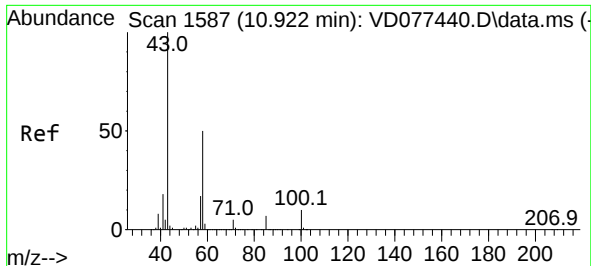
Tgt Ion: 63 Resp: 36762

Ion Ratio Lower Upper

63 100

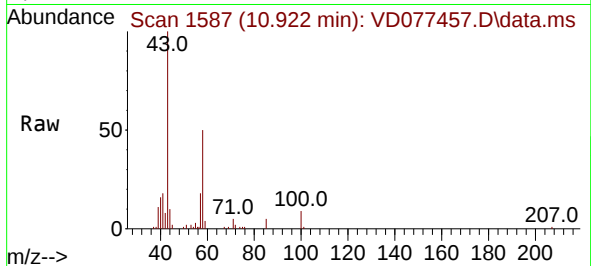
106 21.4 25.3 37.9





#59
2-Hexanone
Concen: 18.293 ug/l
RT: 10.922 min Scan# 1587
Delta R.T. -0.000 min
Lab File: VD077457.D
Acq: 31 Oct 2023 13:31

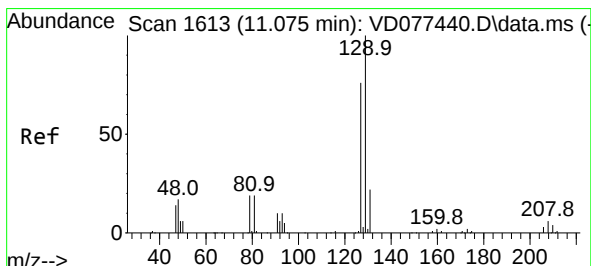
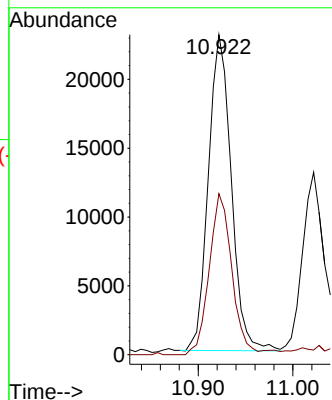
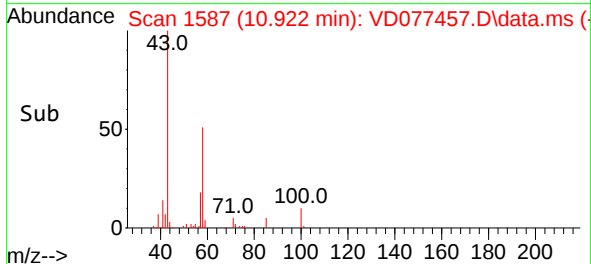
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT4-2023



Tgt Ion: 43 Resp: 3850
Ion Ratio Lower Upper
43 100
58 50.3 34.1 102.2

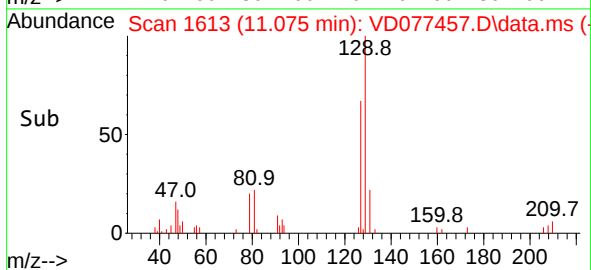
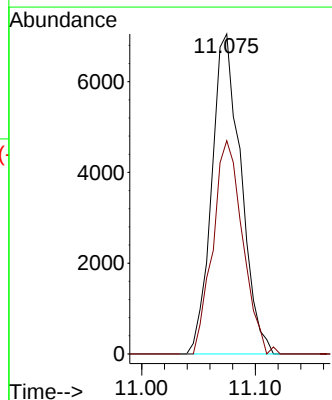
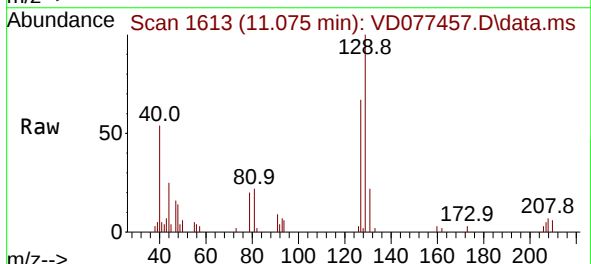
Manual Integrations
APPROVED

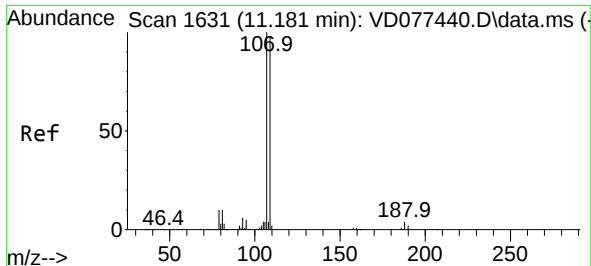
Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023



#60
Dibromochloromethane
Concen: 3.955 ug/l
RT: 11.075 min Scan# 1613
Delta R.T. -0.000 min
Lab File: VD077457.D
Acq: 31 Oct 2023 13:31

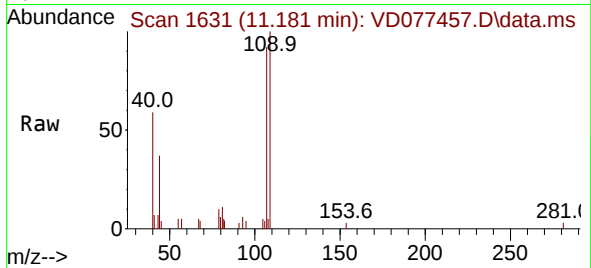
Tgt Ion:129 Resp: 12567
Ion Ratio Lower Upper
129 100
127 68.1 37.1 111.5





#61
1,2-Dibromoethane
Concen: 3.798 ug/l
RT: 11.181 min Scan# 1631
Delta R.T. -0.000 min
Lab File: VD077457.D
Acq: 31 Oct 2023 13:31

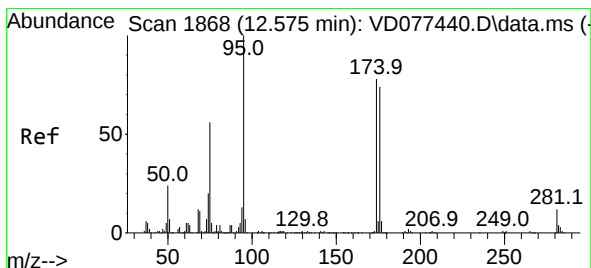
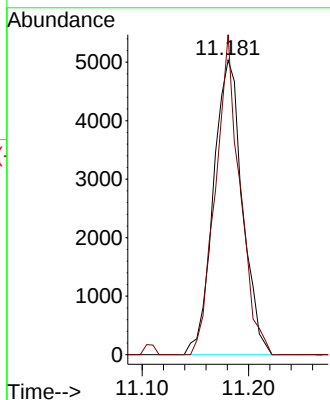
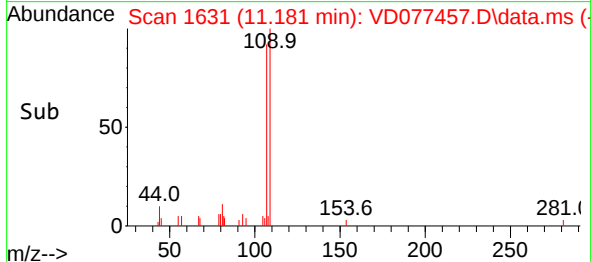
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT4-2023



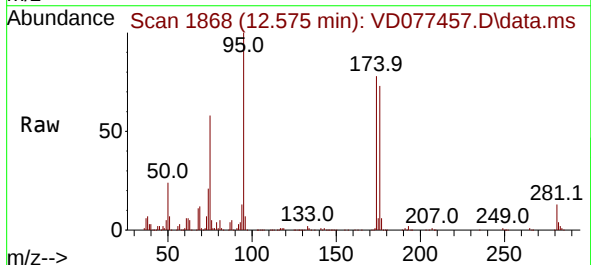
Tgt Ion:107 Resp: 9502
Ion Ratio Lower Upper
107 100
109 92.3 75.6 113.4

Manual Integrations
APPROVED

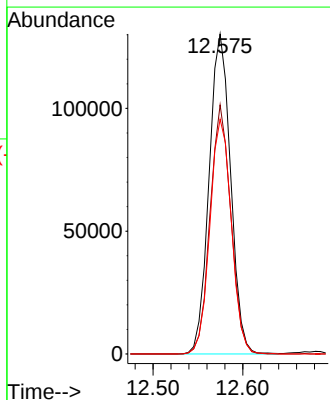
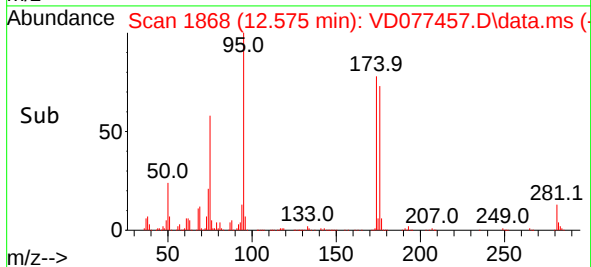
Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023

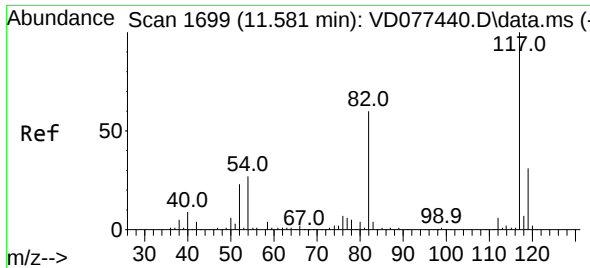


#62
4-Bromofluorobenzene
Concen: 50.177 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. -0.000 min
Lab File: VD077457.D
Acq: 31 Oct 2023 13:31



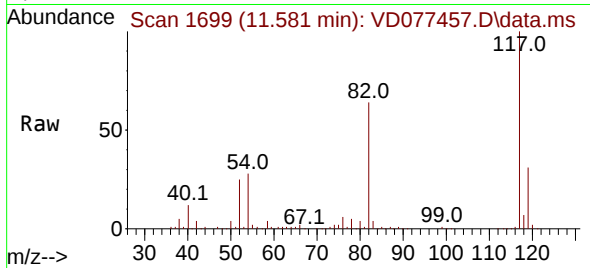
Tgt Ion: 95 Resp: 217030
Ion Ratio Lower Upper
95 100
174 75.1 0.0 201.8
176 73.1 0.0 191.8





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.581 min Scan# 1699
Delta R.T. -0.000 min
Lab File: VD077457.D
Acq: 31 Oct 2023 13:31

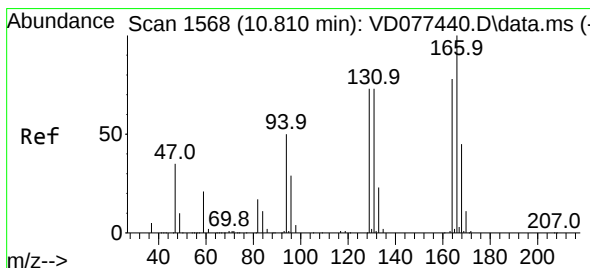
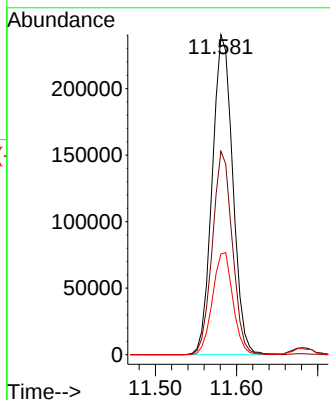
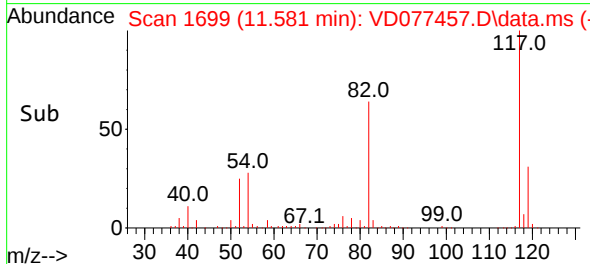
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT4-2023



Tgt Ion:117 Resp: 422354
Ion Ratio Lower Upper
117 100
82 63.6 38.3 57.5
119 31.4 25.0 37.4

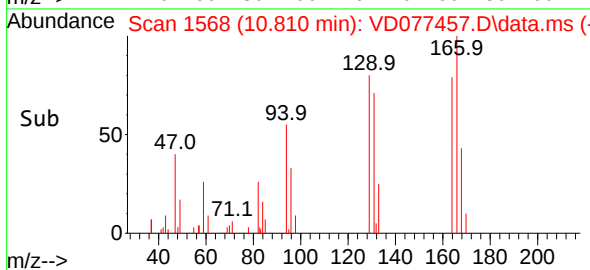
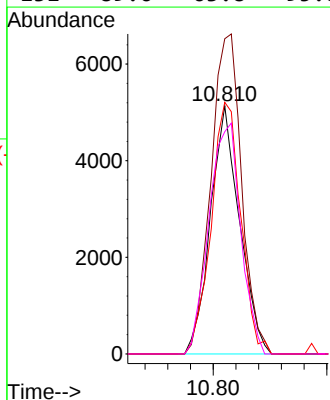
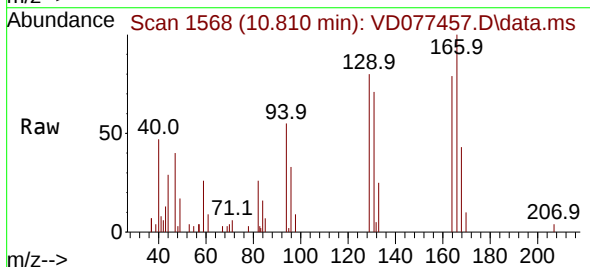
Manual Integrations
APPROVED

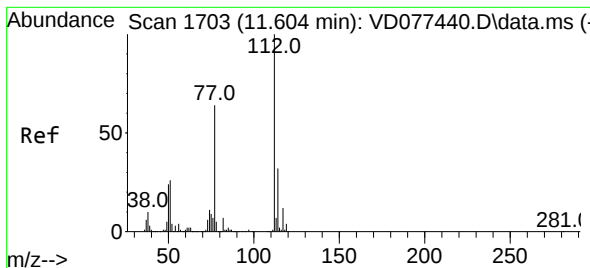
Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023



#64
Tetrachloroethene
Concen: 3.407 ug/l
RT: 10.810 min Scan# 1568
Delta R.T. -0.000 min
Lab File: VD077457.D
Acq: 31 Oct 2023 13:31

Tgt Ion:164 Resp: 9160
Ion Ratio Lower Upper
164 100
166 127.0 99.2 148.8
129 101.4 68.4 102.6
131 89.6 63.8 95.8





#65

Chlorobenzene

Concen: 3.747 ug/l

RT: 11.610 min Scan# 1704

Delta R.T. 0.006 min

Lab File: VD077457.D

Acq: 31 Oct 2023 13:31

Instrument :

MSVOA_D

ClientSampleId :

MDL-SOIL-03-QT4-2023

Tgt Ion:112 Resp: 33152

Ion Ratio Lower Upper

112 100

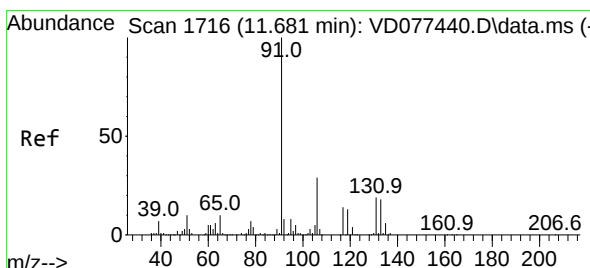
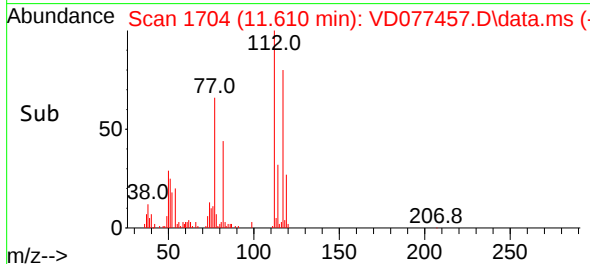
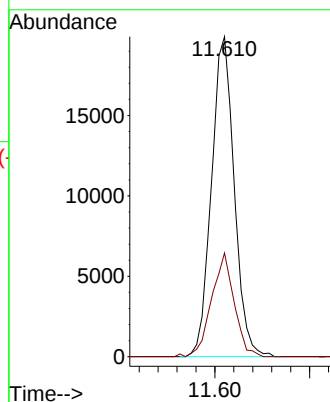
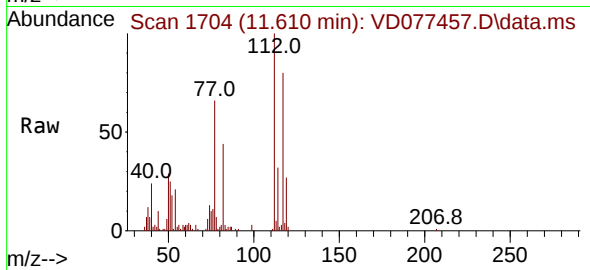
114 32.4 25.1 37.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/01/2023

Supervised By :Mahesh Dadoda 11/01/2023



#66

1,1,1,2-Tetrachloroethane

Concen: 3.693 ug/l

RT: 11.681 min Scan# 1716

Delta R.T. -0.000 min

Lab File: VD077457.D

Acq: 31 Oct 2023 13:31

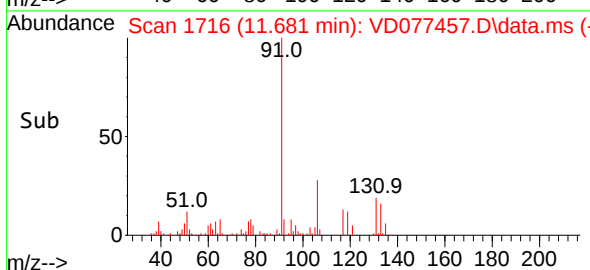
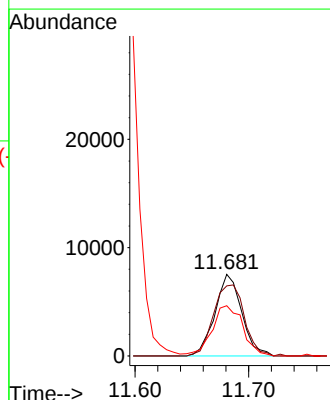
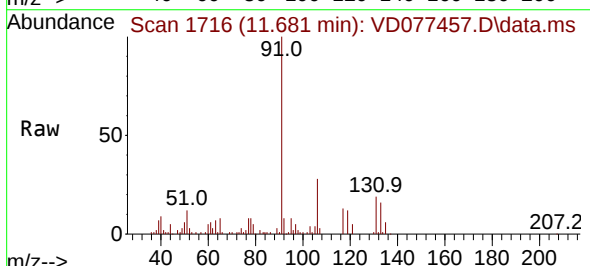
Tgt Ion:131 Resp: 12347

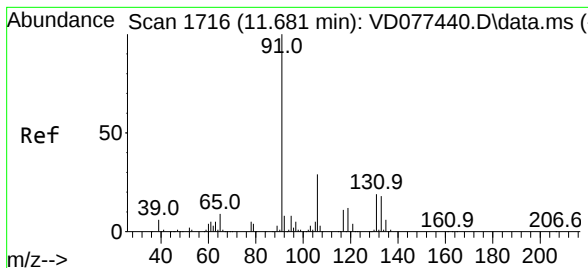
Ion Ratio Lower Upper

131 100

133 100.8 48.5 145.5

119 70.9 35.6 106.9





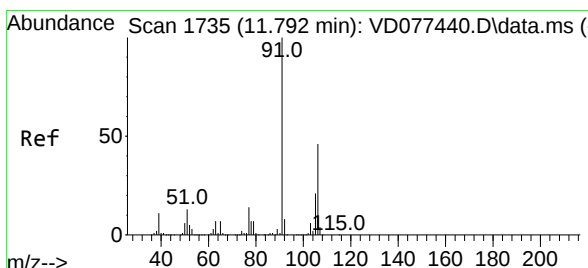
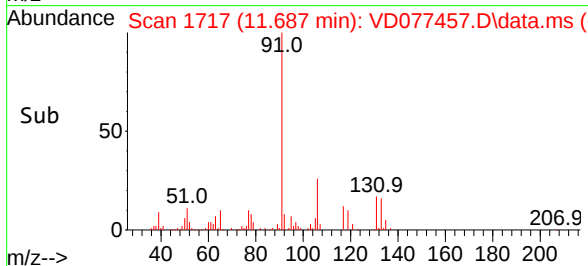
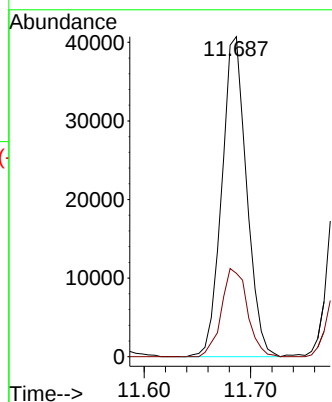
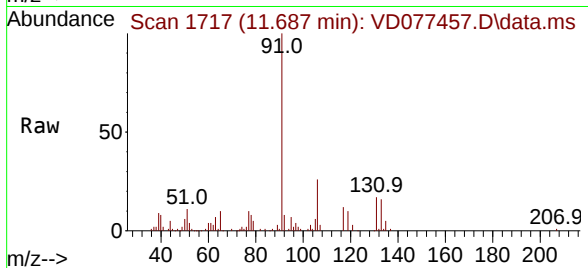
#67
Ethyl Benzene
Concen: 3.863 ug/l
RT: 11.687 min Scan# 1716
Delta R.T. 0.006 min
Lab File: VD077457.D
Acq: 31 Oct 2023 13:31

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT4-2023

Tgt Ion: 91 Resp: 6576
Ion Ratio Lower Upper
91 100
106 26.1 26.5 39.7

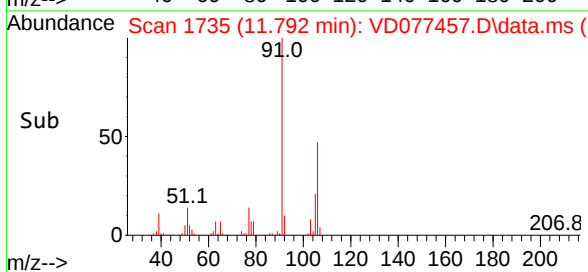
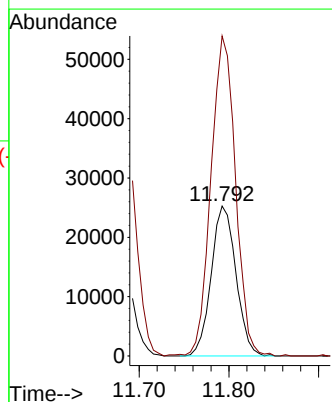
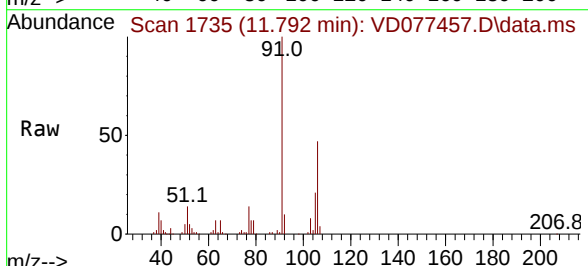
Manual Integrations
APPROVED

Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023



#68
m/p-Xylenes
Concen: 7.871 ug/l
RT: 11.792 min Scan# 1735
Delta R.T. -0.000 min
Lab File: VD077457.D
Acq: 31 Oct 2023 13:31

Tgt Ion:106 Resp: 48387
Ion Ratio Lower Upper
106 100
91 211.5 147.0 220.6





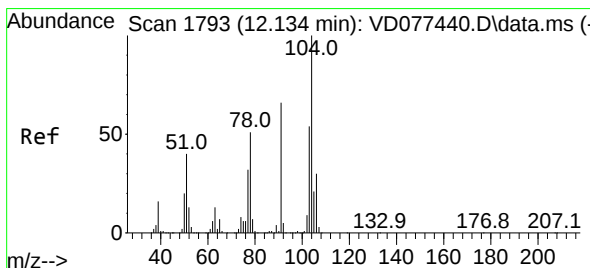
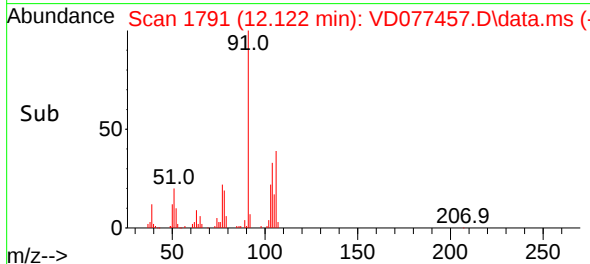
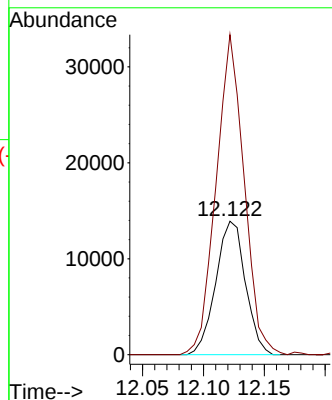
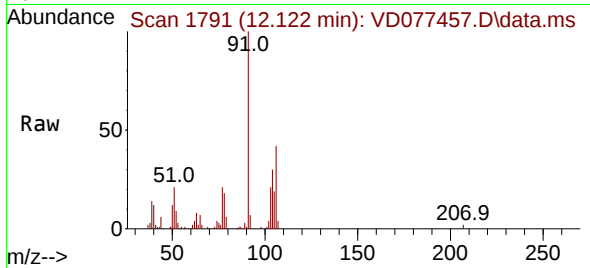
#69
o-Xylene
Concen: 4.000 ug/l
RT: 12.122 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VD077457.D
Acq: 31 Oct 2023 13:31

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT4-2023

Tgt Ion:106 Resp: 2355
Ion Ratio Lower Upper
106 100
91 226.0 97.9 293.6

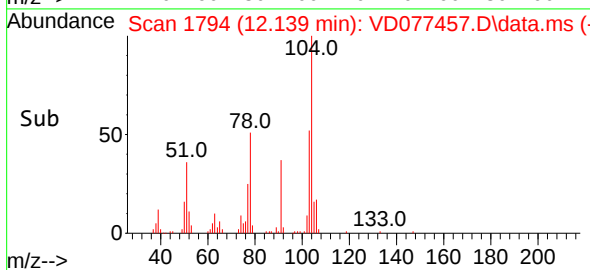
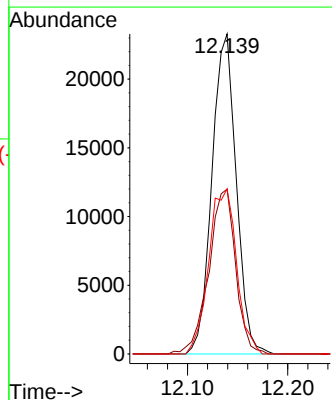
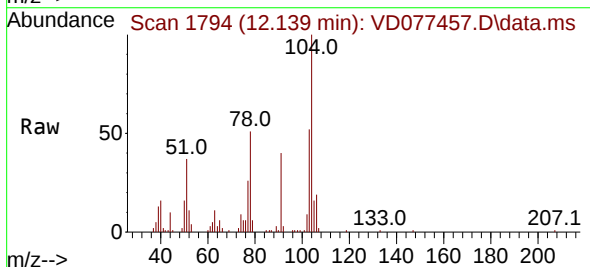
Manual Integrations
APPROVED

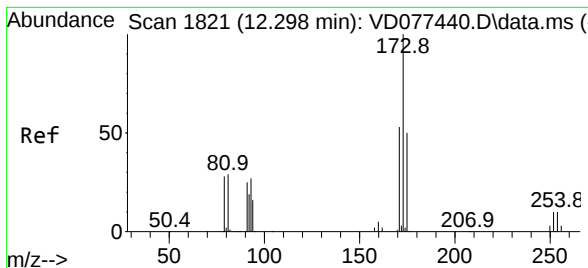
Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023



#70
Styrene
Concen: 3.859 ug/l
RT: 12.139 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VD077457.D
Acq: 31 Oct 2023 13:31

Tgt Ion:104 Resp: 39199
Ion Ratio Lower Upper
104 100
78 56.8 33.2 49.8#
103 59.0 43.6 65.4





#71

Bromoform

Concen: 3.671 ug/l

RT: 12.298 min Scan# 1821

Delta R.T. -0.000 min

Lab File: VD077457.D

Acq: 31 Oct 2023 13:31

Instrument :

MSVOA_D

ClientSampleId :

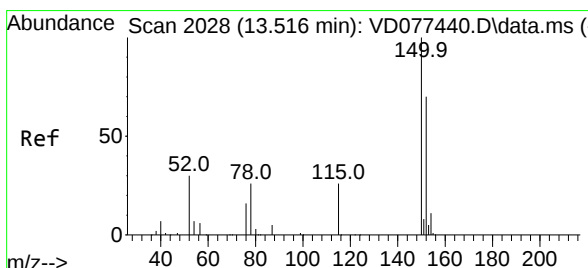
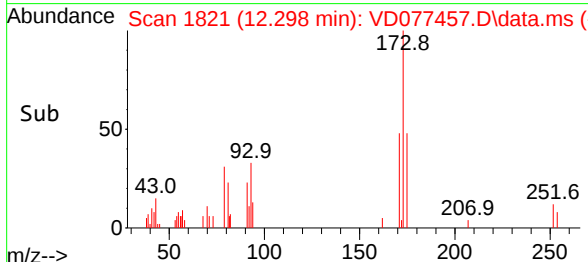
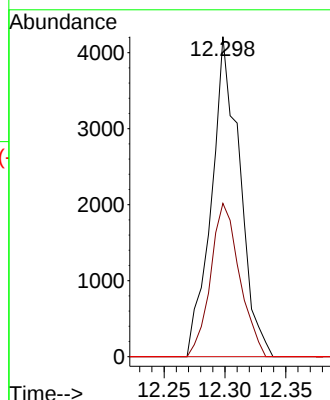
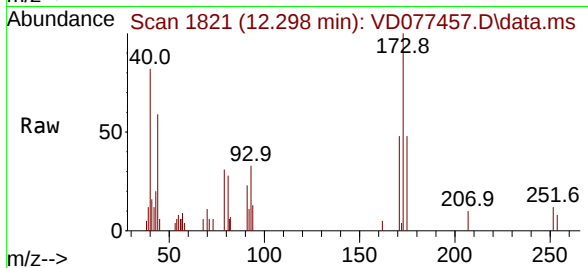
MDL-SOIL-03-QT4-2023

Tgt Ion:	173	Resp:	6800
Ion Ratio	Lower	Upper	
173	100		
175	49.0	24.6	73.8
254	0.0	0.0	0.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

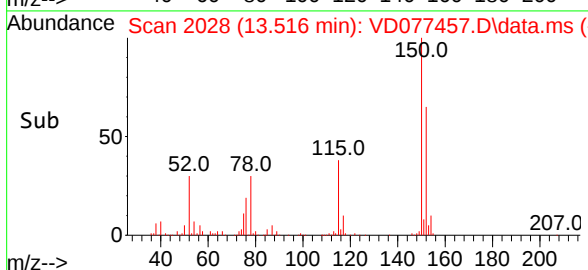
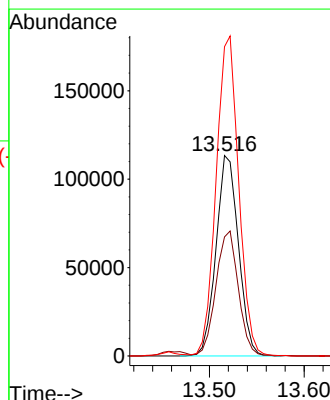
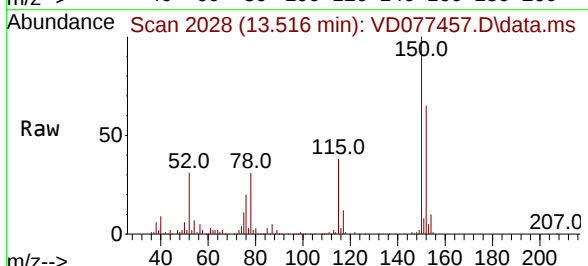
RT: 13.516 min Scan# 2028

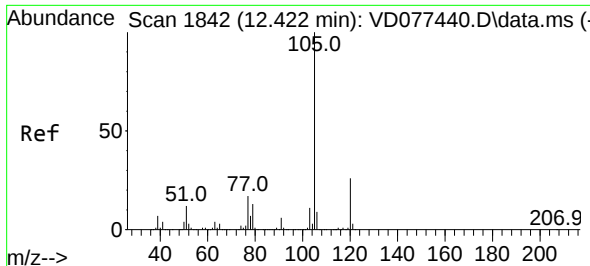
Delta R.T. -0.000 min

Lab File: VD077457.D

Acq: 31 Oct 2023 13:31

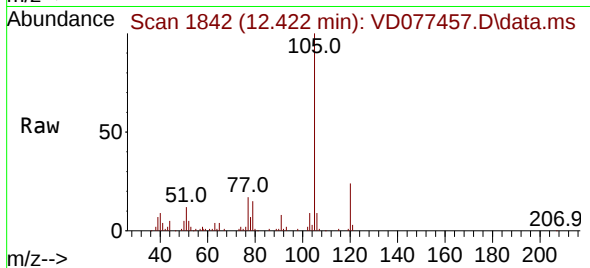
Tgt Ion:	152	Resp:	186436
Ion Ratio	Lower	Upper	
152	100		
115	62.6	27.1	81.3
150	160.8	0.0	353.6





#73
Isopropylbenzene
Concen: 4.095 ug/l
RT: 12.422 min Scan# 1842
Delta R.T. -0.000 min
Lab File: VD077457.D
Acq: 31 Oct 2023 13:31

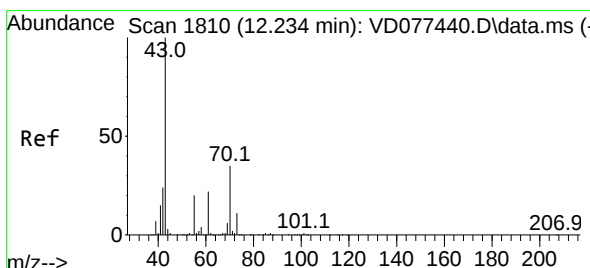
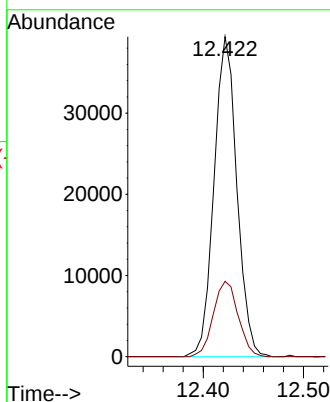
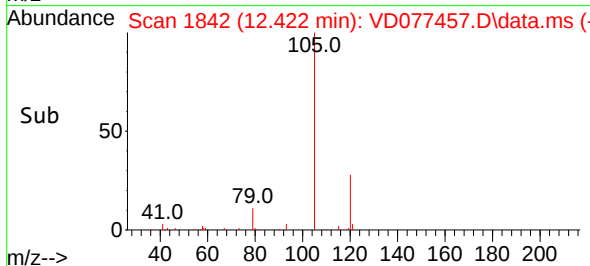
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT4-2023



Tgt Ion:105 Resp: 62245
Ion Ratio Lower Upper
105 100
120 25.6 14.3 42.9

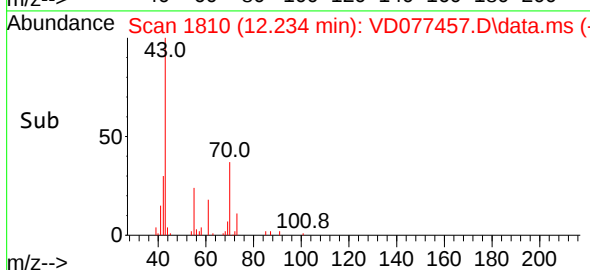
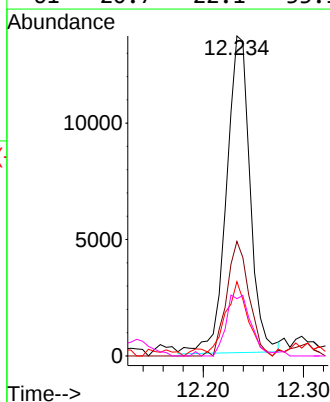
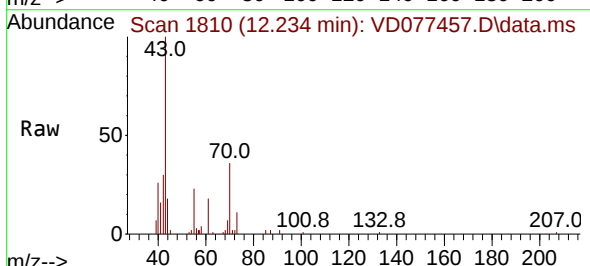
Manual Integrations
APPROVED

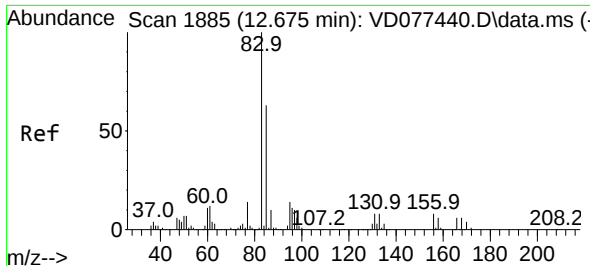
Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023



#74
N-ethyl acetate
Concen: 4.138 ug/l
RT: 12.234 min Scan# 1810
Delta R.T. -0.000 min
Lab File: VD077457.D
Acq: 31 Oct 2023 13:31

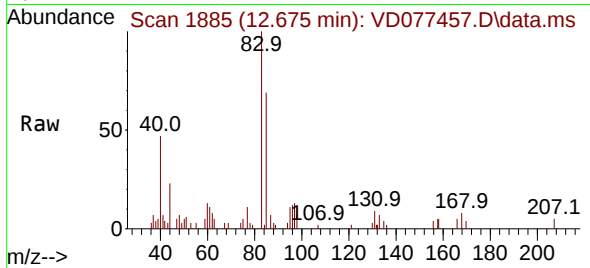
Tgt Ion: 43 Resp: 22280
Ion Ratio Lower Upper
43 100
70 34.0 45.0 67.4#
55 23.6 23.8 35.6#
61 20.7 22.1 33.1#





#75
1,1,2,2-Tetrachloroethane
Concen: 4.075 ug/l
RT: 12.675 min Scan# 1885
Delta R.T. -0.000 min
Lab File: VD077457.D
Acq: 31 Oct 2023 13:31

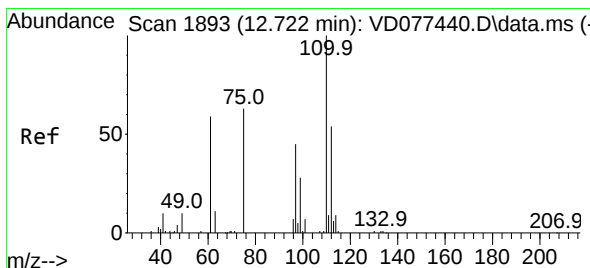
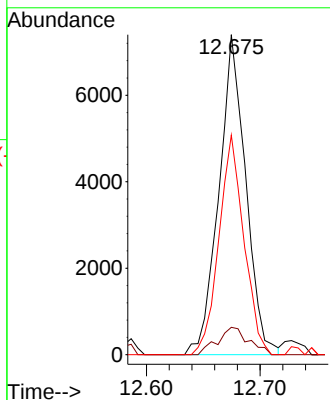
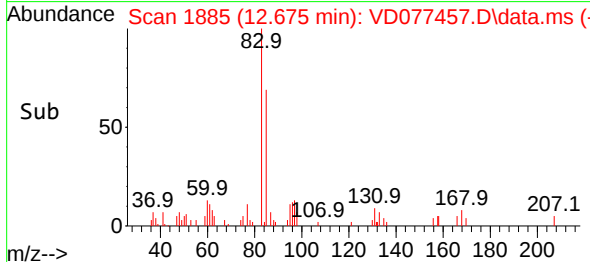
Instrument : MSVOA_D
ClientSampleId : MDL-SOIL-03-QT4-2023



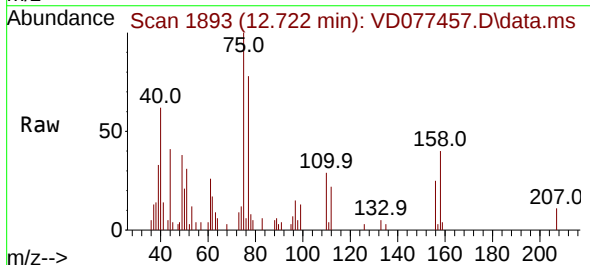
Tgt Ion: 83 Resp: 1214
Ion Ratio Lower Upper
83 100
131 9.9 5.1 15.3
85 63.9 32.6 97.8

Manual Integrations
APPROVED

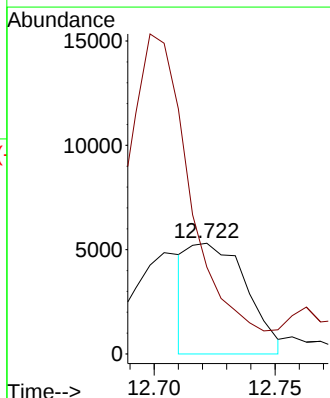
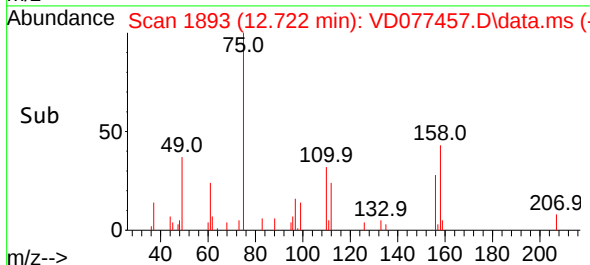
Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023

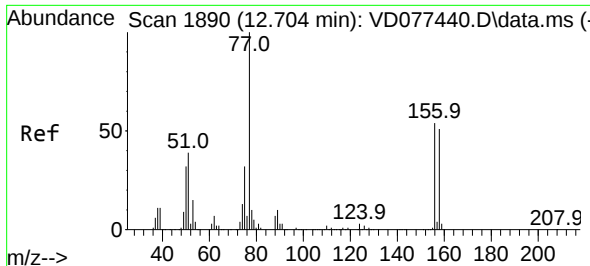


#76
1,2,3-Trichloropropane
Concen: 3.910 ug/l m
RT: 12.722 min Scan# 1893
Delta R.T. -0.000 min
Lab File: VD077457.D
Acq: 31 Oct 2023 13:31



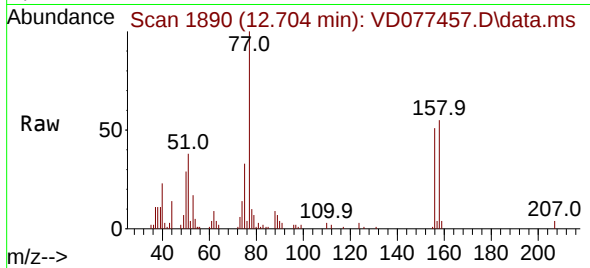
Tgt Ion: 75 Resp: 8873
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0





#77
Bromobenzene
Concen: 3.750 ug/l
RT: 12.704 min Scan# 1890
Delta R.T. -0.000 min
Lab File: VD077457.D
Acq: 31 Oct 2023 13:31

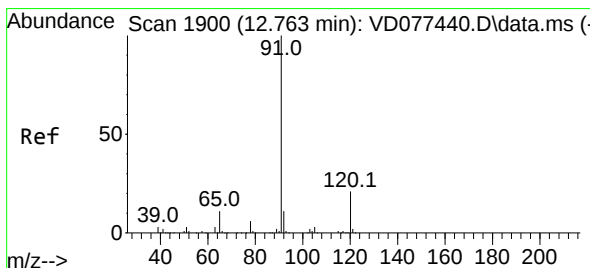
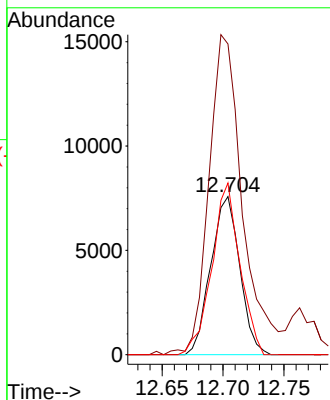
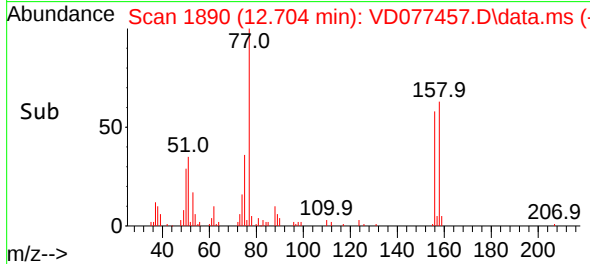
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT4-2023



Tgt Ion:156 Resp: 12540
Ion Ratio Lower Upper
156 100
77 233.3 76.8 230.4
158 105.1 48.6 145.9

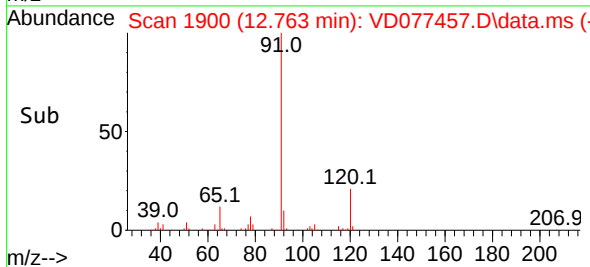
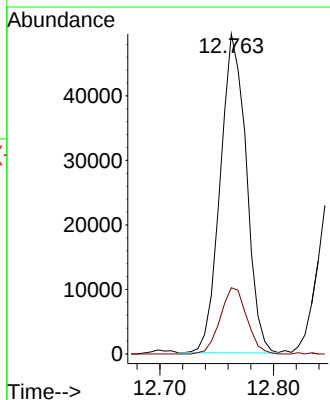
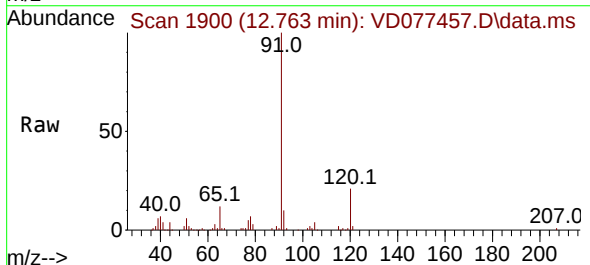
Manual Integrations
APPROVED

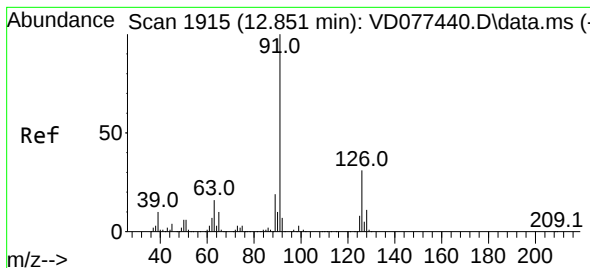
Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023



#78
n-propylbenzene
Concen: 4.078 ug/l
RT: 12.763 min Scan# 1900
Delta R.T. -0.000 min
Lab File: VD077457.D
Acq: 31 Oct 2023 13:31

Tgt Ion: 91 Resp: 78702
Ion Ratio Lower Upper
91 100
120 21.2 12.4 37.2





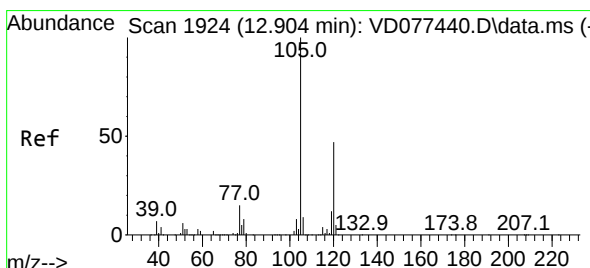
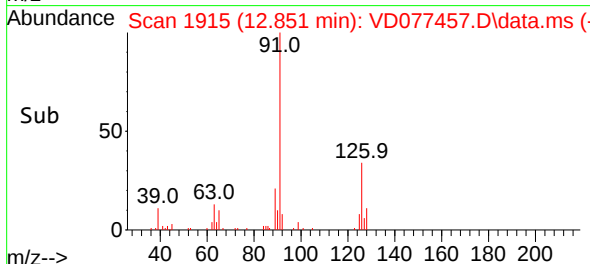
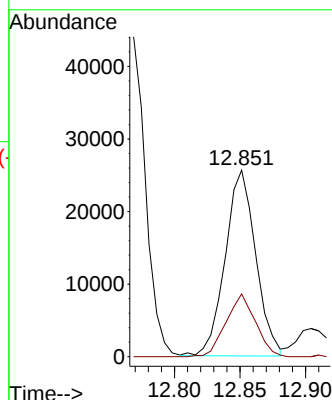
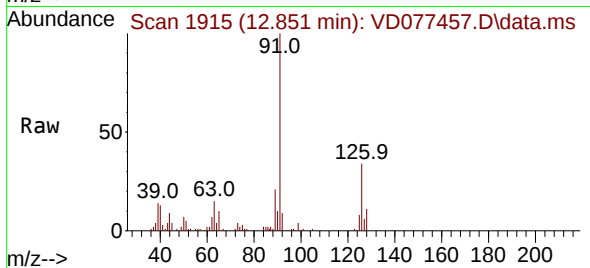
#79
2-Chlorotoluene
Concen: 3.791 ug/l
RT: 12.851 min Scan# 1915
Delta R.T. -0.000 min
Lab File: VD077457.D
Acq: 31 Oct 2023 13:31

Instrument : MSVOA_D
ClientSampleId : MDL-SOIL-03-QT4-2023

Tgt Ion: 91 Resp: 4143
Ion Ratio Lower Upper
91 100
126 32.5 19.4 58.1

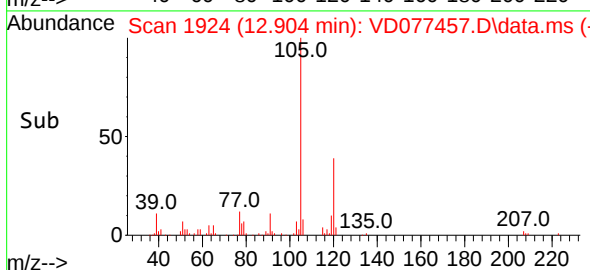
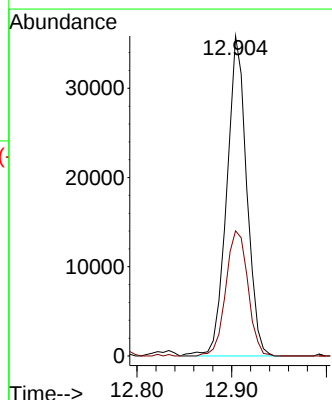
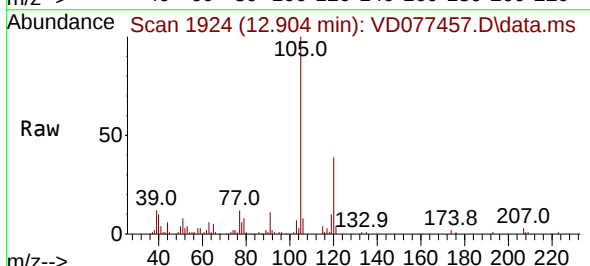
Manual Integrations
APPROVED

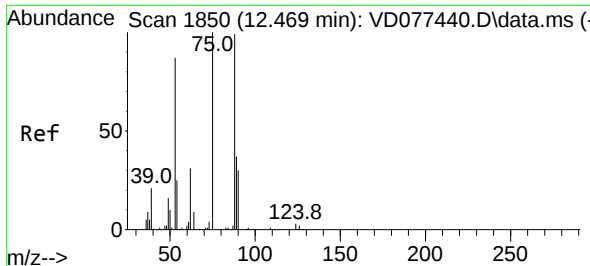
Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023



#80
1,3,5-Trimethylbenzene
Concen: 4.119 ug/l
RT: 12.904 min Scan# 1924
Delta R.T. -0.000 min
Lab File: VD077457.D
Acq: 31 Oct 2023 13:31

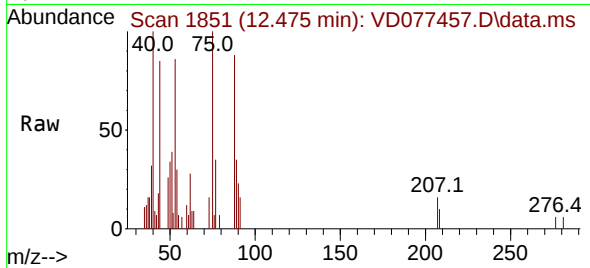
Tgt Ion:105 Resp: 52529
Ion Ratio Lower Upper
105 100
120 43.2 26.4 79.2





#81
trans-1,4-Dichloro-2-butene
Concen: 3.959 ug/l
RT: 12.475 min Scan# 1851
Delta R.T. 0.006 min
Lab File: VD077457.D
Acq: 31 Oct 2023 13:31

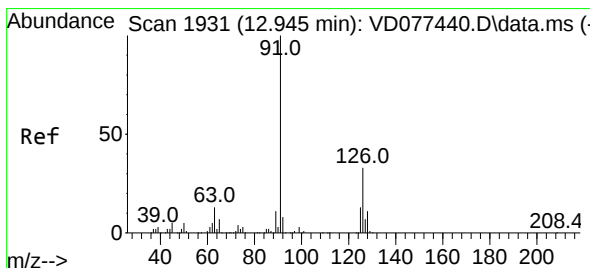
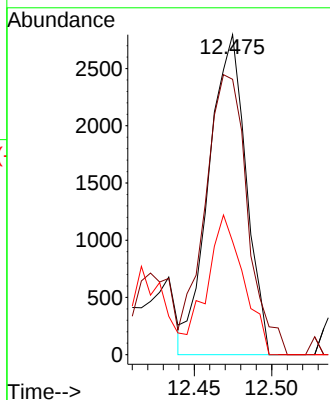
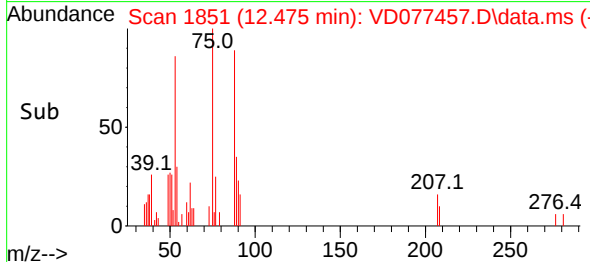
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT4-2023



Tgt Ion: 75 Resp: 465
Ion Ratio Lower Upper
75 100
53 100.7 63.0 94.4
89 42.2 37.9 56.9

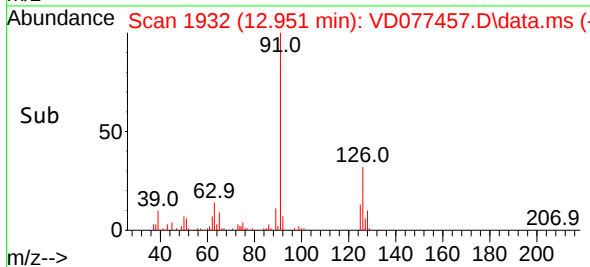
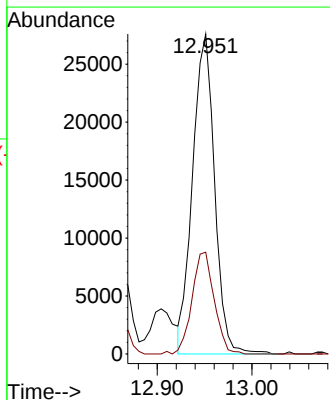
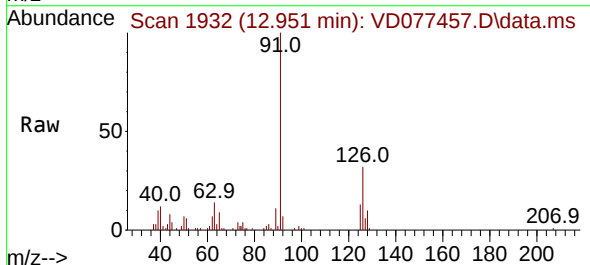
Manual Integrations
APPROVED

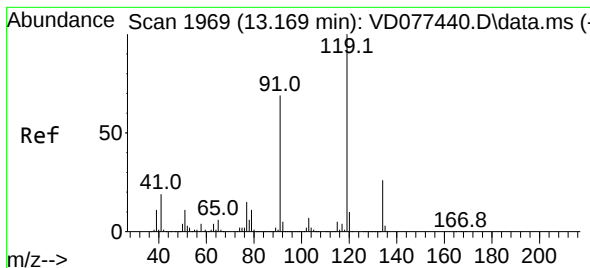
Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023



#82
4-Chlorotoluene
Concen: 3.912 ug/l
RT: 12.951 min Scan# 1932
Delta R.T. 0.006 min
Lab File: VD077457.D
Acq: 31 Oct 2023 13:31

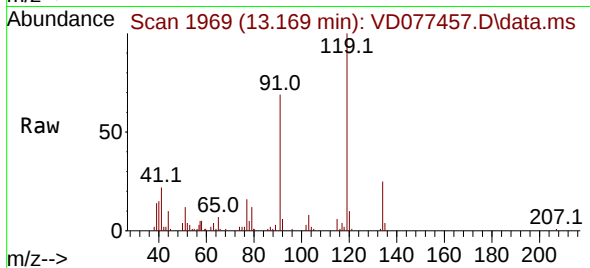
Tgt Ion: 91 Resp: 44526
Ion Ratio Lower Upper
91 100
126 32.2 19.4 58.4





#83
tert-Butylbenzene
Concen: 4.028 ug/l
RT: 13.169 min Scan# 1969
Delta R.T. -0.000 min
Lab File: VD077457.D
Acq: 31 Oct 2023 13:31

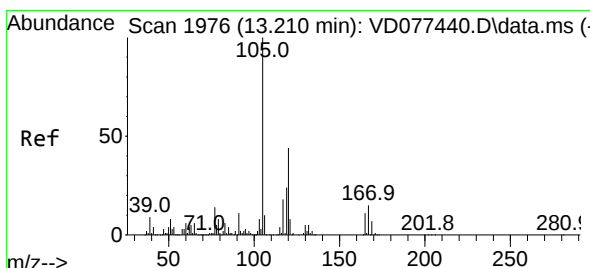
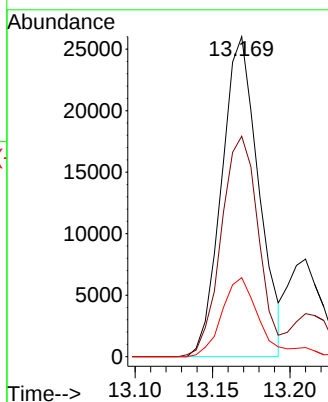
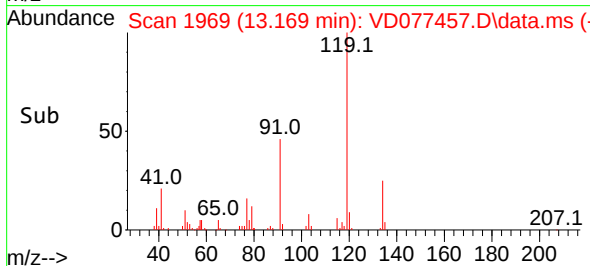
Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT4-2023



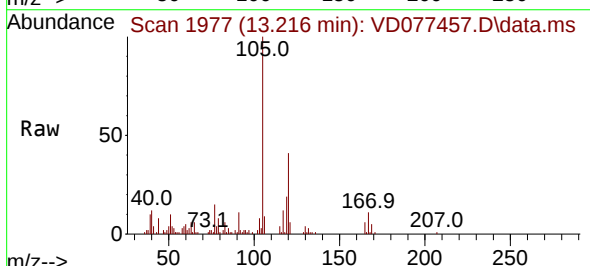
Tgt Ion:119 Resp: 43192
Ion Ratio Lower Upper
119 100
91 69.2 29.3 87.8
134 25.8 14.1 42.3

Manual Integrations
APPROVED

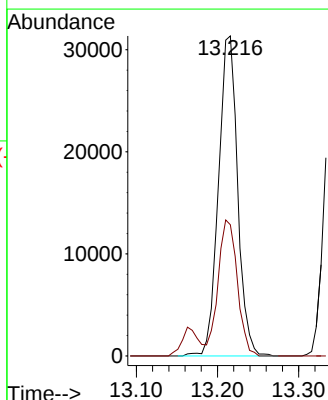
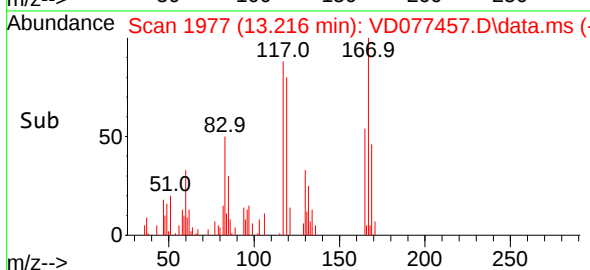
Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023

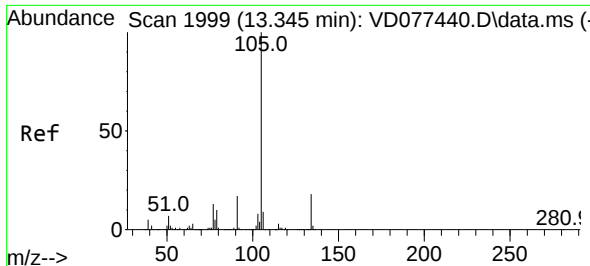


#84
1,2,4-Trimethylbenzene
Concen: 4.063 ug/l
RT: 13.216 min Scan# 1977
Delta R.T. 0.006 min
Lab File: VD077457.D
Acq: 31 Oct 2023 13:31



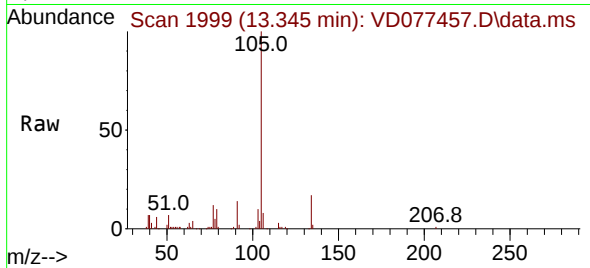
Tgt Ion:105 Resp: 51476
Ion Ratio Lower Upper
105 100
120 42.4 24.3 72.9





#85
 sec-Butylbenzene
 Concen: 3.994 ug/l
 RT: 13.345 min Scan# 1999
 Delta R.T. -0.000 min
 Lab File: VD077457.D
 Acq: 31 Oct 2023 13:31

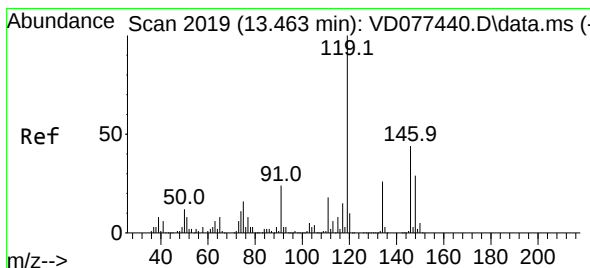
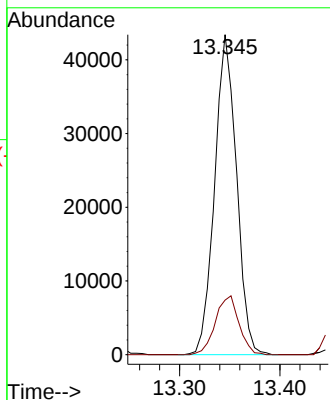
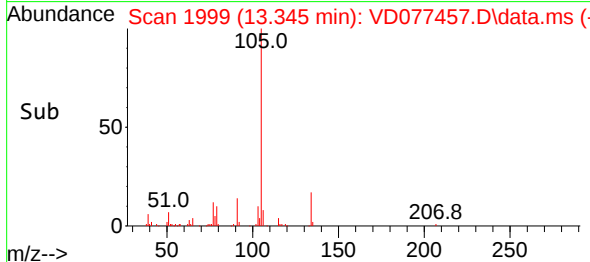
Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-SOIL-03-QT4-2023



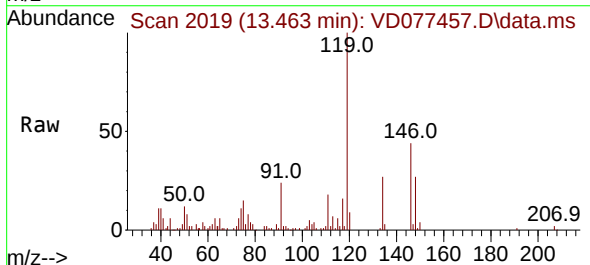
Tgt Ion:105 Resp: 65530
 Ion Ratio Lower Upper
 105 100
 134 19.9 10.9 32.9

Manual Integrations
 APPROVED

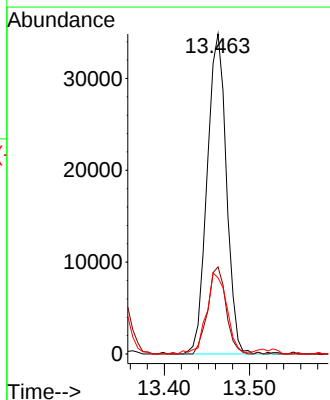
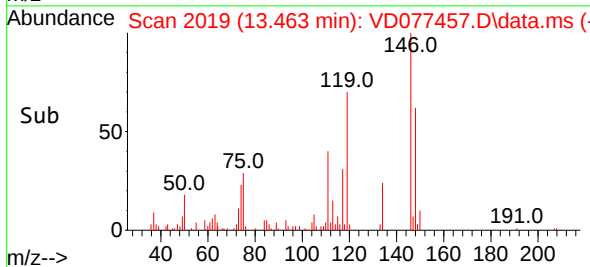
Reviewed By :John Carlone 11/01/2023
 Supervised By :Mahesh Dadoda 11/01/2023

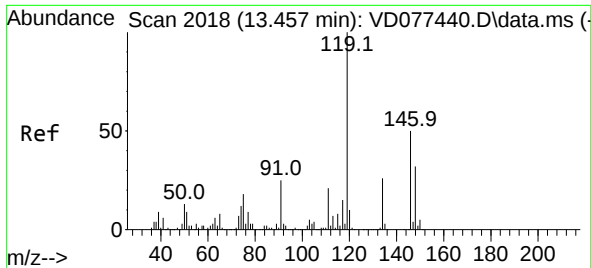


#86
 p-Isopropyltoluene
 Concen: 4.119 ug/l
 RT: 13.463 min Scan# 2019
 Delta R.T. -0.000 min
 Lab File: VD077457.D
 Acq: 31 Oct 2023 13:31



Tgt Ion:119 Resp: 54930
 Ion Ratio Lower Upper
 119 100
 134 25.8 14.2 42.6
 91 26.8 10.5 31.5





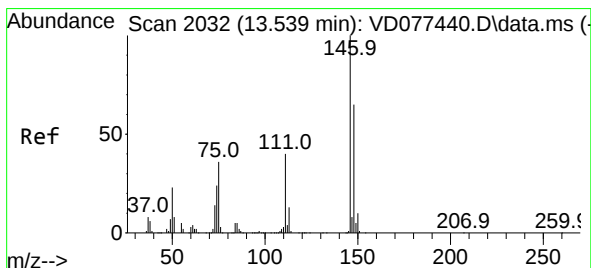
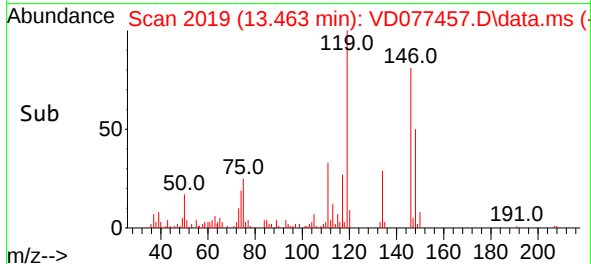
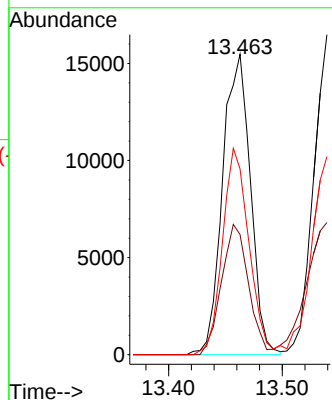
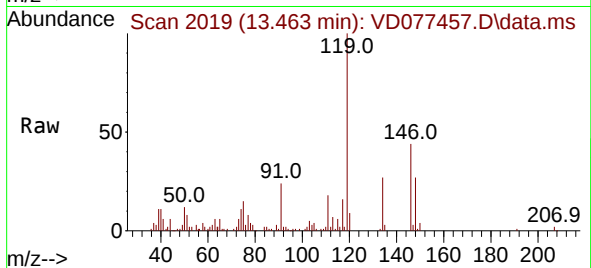
#87
1,3-Dichlorobenzene
Concen: 3.999 ug/l
RT: 13.463 min Scan# 2018
Delta R.T. 0.006 min
Lab File: VD077457.D
Acq: 31 Oct 2023 13:31

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT4-2023

Tgt Ion:146 Resp: 2629
Ion Ratio Lower Upper
146 100
111 42.3 17.9 53.8
148 65.1 32.3 96.8

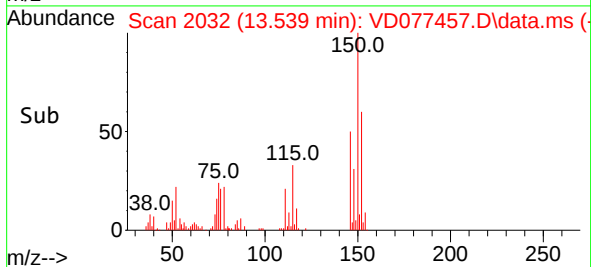
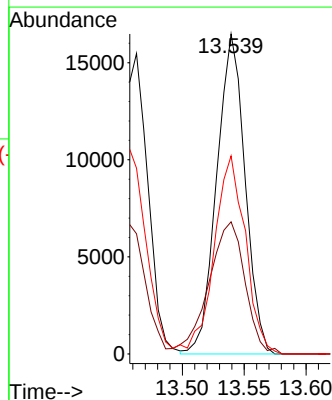
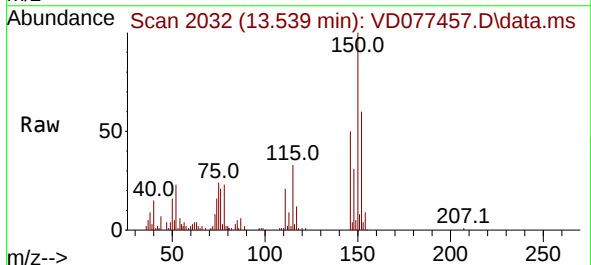
Manual Integrations
APPROVED

Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023



#88
1,4-Dichlorobenzene
Concen: 4.010 ug/l m
RT: 13.539 min Scan# 2032
Delta R.T. -0.000 min
Lab File: VD077457.D
Acq: 31 Oct 2023 13:31

Tgt Ion:146 Resp: 26350
Ion Ratio Lower Upper
146 100
111 42.2 17.4 52.3
148 65.0 31.7 95.1





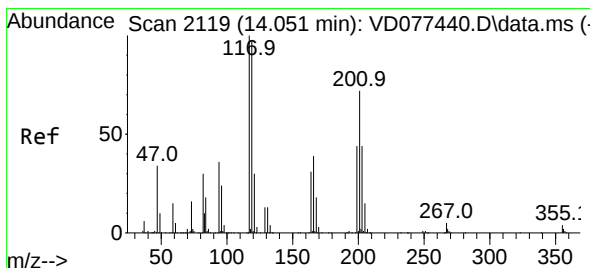
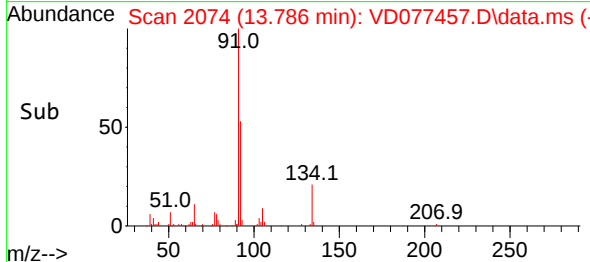
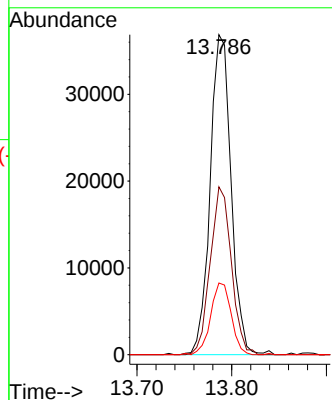
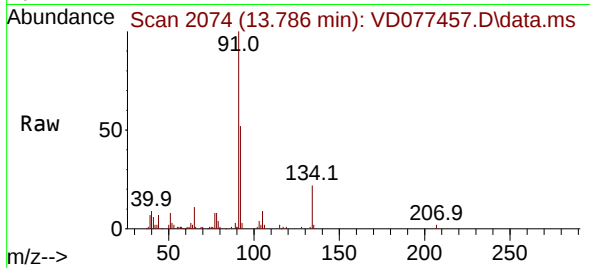
#89
n-Butylbenzene
Concen: 4.077 ug/l
RT: 13.786 min Scan# 2074
Delta R.T. -0.000 min
Lab File: VD077457.D
Acq: 31 Oct 2023 13:31

Instrument :
MSVOA_D
ClientSampleId :
MDL-SOIL-03-QT4-2023

Tgt Ion: 91 Resp: 56512
Ion Ratio Lower Upper
91 100
92 52.9 26.5 79.5
134 22.0 13.8 41.3

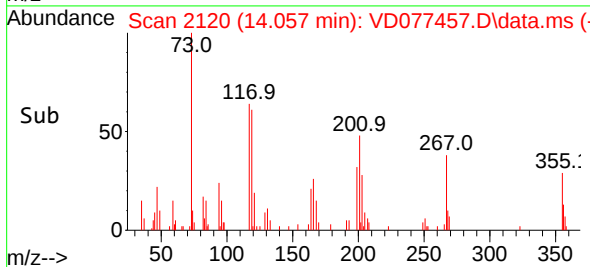
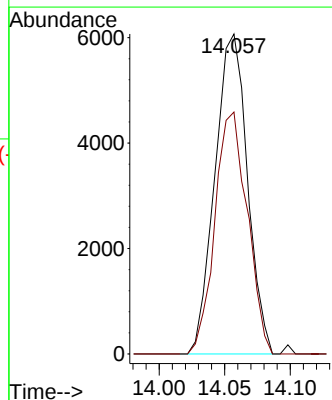
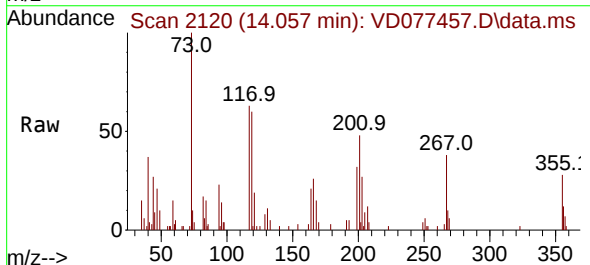
Manual Integrations
APPROVED

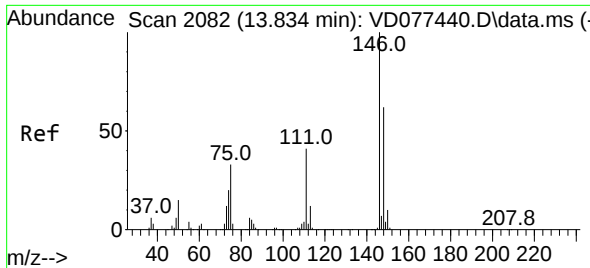
Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023



#90
Hexachloroethane
Concen: 3.837 ug/l
RT: 14.057 min Scan# 2120
Delta R.T. 0.006 min
Lab File: VD077457.D
Acq: 31 Oct 2023 13:31

Tgt Ion:117 Resp: 10472
Ion Ratio Lower Upper
117 100
201 75.3 38.5 115.5





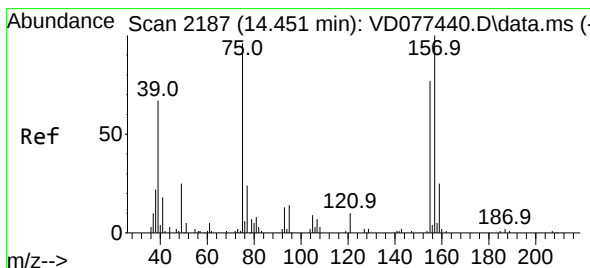
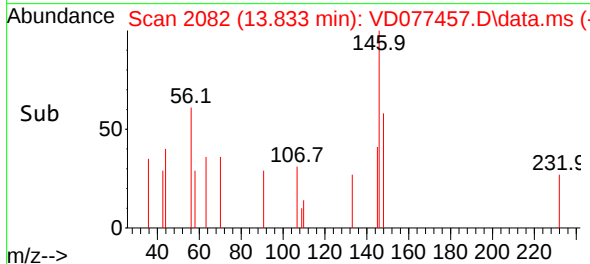
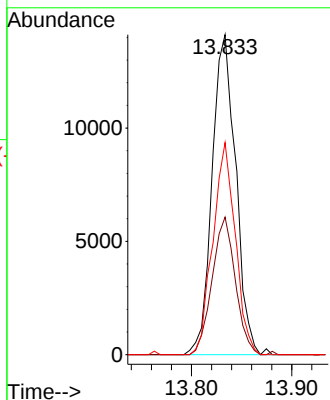
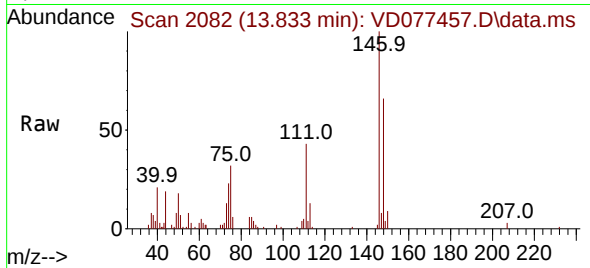
#91
1,2-Dichlorobenzene
Concen: 3.999 ug/l
RT: 13.833 min Scan# 2082
Delta R.T. -0.000 min
Lab File: VD077457.D
Acq: 31 Oct 2023 13:31

Instrument : MSVOA_D
ClientSampleId : MDL-SOIL-03-QT4-2023

Tgt Ion:146 Resp: 2311
Ion Ratio Lower Upper
146 100
111 42.2 18.3 54.8
148 63.1 31.6 94.7

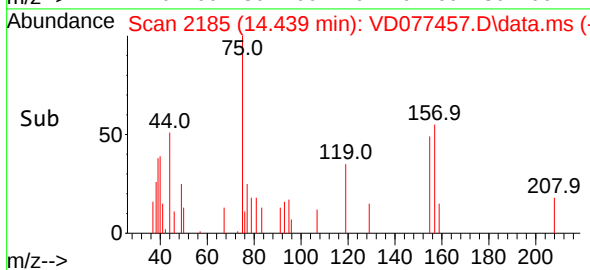
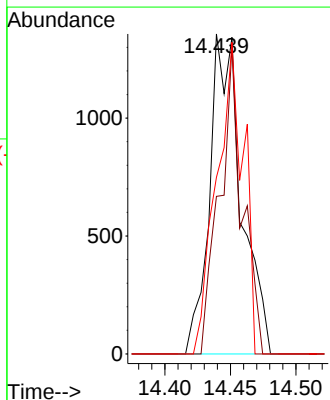
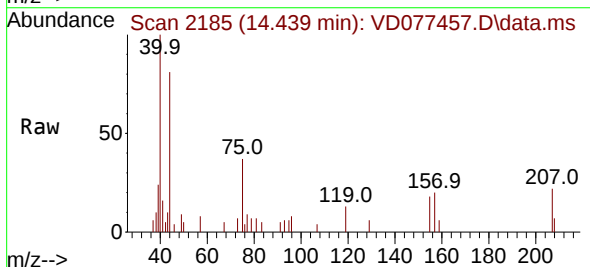
Manual Integrations
APPROVED

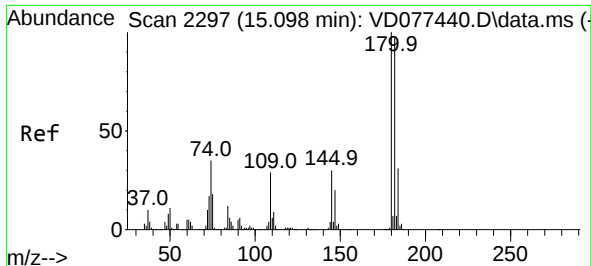
Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023



#92
1,2-Dibromo-3-Chloropropane
Concen: 4.546 ug/l
RT: 14.439 min Scan# 2185
Delta R.T. -0.012 min
Lab File: VD077457.D
Acq: 31 Oct 2023 13:31

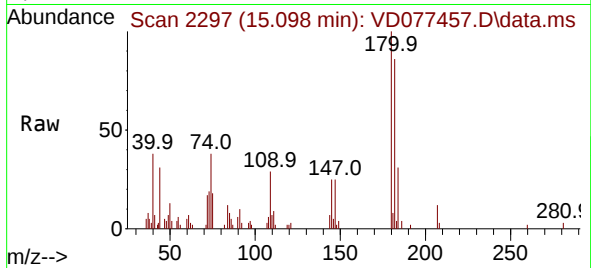
Tgt Ion: 75 Resp: 2282
Ion Ratio Lower Upper
75 100
155 69.2 47.9 143.8
157 82.9 59.9 179.7





#93
1,2,4-Trichlorobenzene
Concen: 3.792 ug/l
RT: 15.098 min Scan# 2297
Delta R.T. -0.000 min
Lab File: VD077457.D
Acq: 31 Oct 2023 13:31

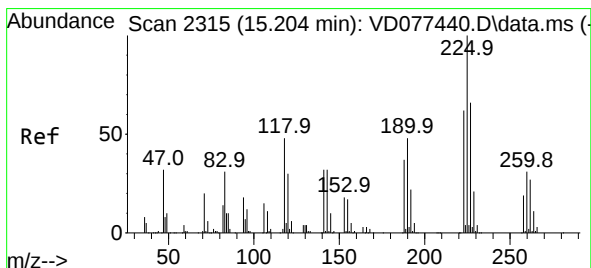
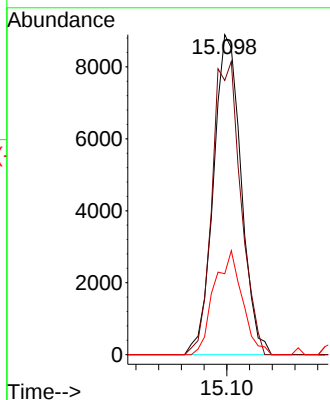
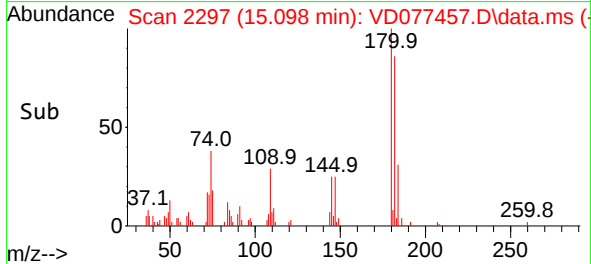
Instrument : MSVOA_D
ClientSampleId : MDL-SOIL-03-QT4-2023



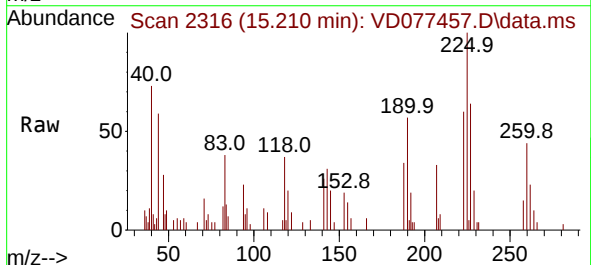
Tgt Ion:180 Resp: 15058
Ion Ratio Lower Upper
180 100
182 94.9 48.5 145.6
145 33.0 14.2 42.6

Manual Integrations
APPROVED

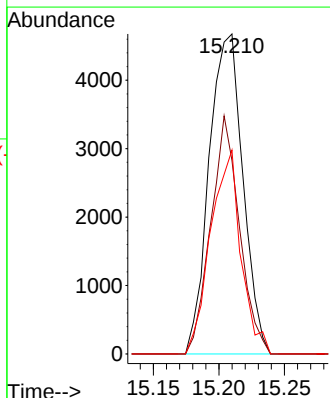
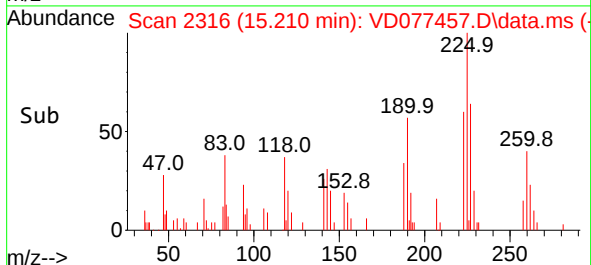
Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023

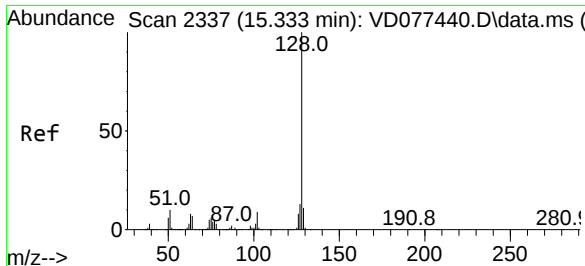


#94
Hexachlorobutadiene
Concen: 3.910 ug/l
RT: 15.210 min Scan# 2316
Delta R.T. 0.006 min
Lab File: VD077457.D
Acq: 31 Oct 2023 13:31



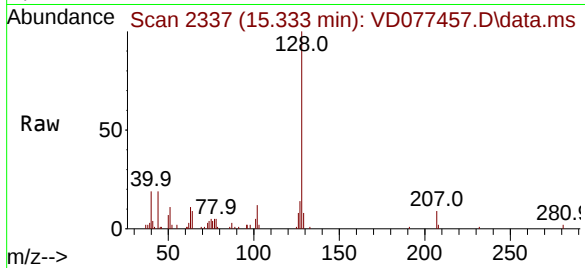
Tgt Ion:225 Resp: 8375
Ion Ratio Lower Upper
225 100
223 63.4 31.6 94.8
227 57.1 31.7 95.1





#95
Naphthalene
Concen: 3.952 ug/l
RT: 15.333 min Scan# 2337
Delta R.T. -0.000 min
Lab File: VD077457.D
Acq: 31 Oct 2023 13:31

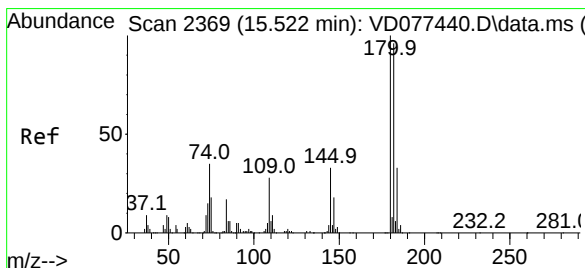
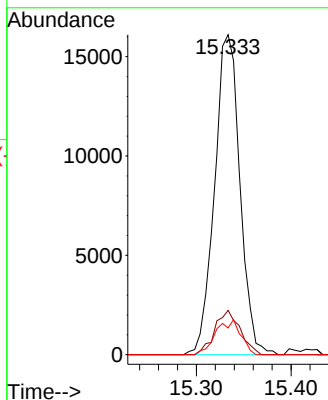
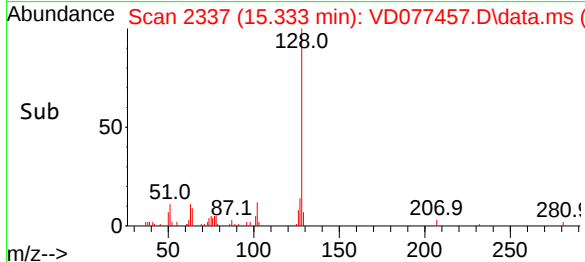
Instrument : MSVOA_D
ClientSampleId : MDL-SOIL-03-QT4-2023



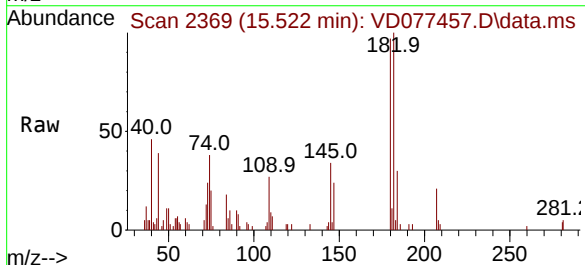
Tgt Ion:128 Resp: 2993
Ion Ratio Lower Upper
128 100
127 13.9 10.5 15.7
129 8.3 8.7 13.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 11/01/2023
Supervised By :Mahesh Dadoda 11/01/2023



#96
1,2,3-Trichlorobenzene
Concen: 3.569 ug/l
RT: 15.522 min Scan# 2369
Delta R.T. -0.000 min
Lab File: VD077457.D
Acq: 31 Oct 2023 13:31



Tgt Ion:180 Resp: 12234
Ion Ratio Lower Upper
180 100
182 101.0 47.3 141.9
145 34.7 15.1 45.3

