

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX100623\
 Data File : VX038141.D
 Acq On : 06 Oct 2023 19:14
 Operator : JC/MD
 Sample : 04778-06
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SOIL-2

Quant Time: Oct 07 04:25:09 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X100523W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 05 15:27:13 2023
 Response via : Initial Calibration

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

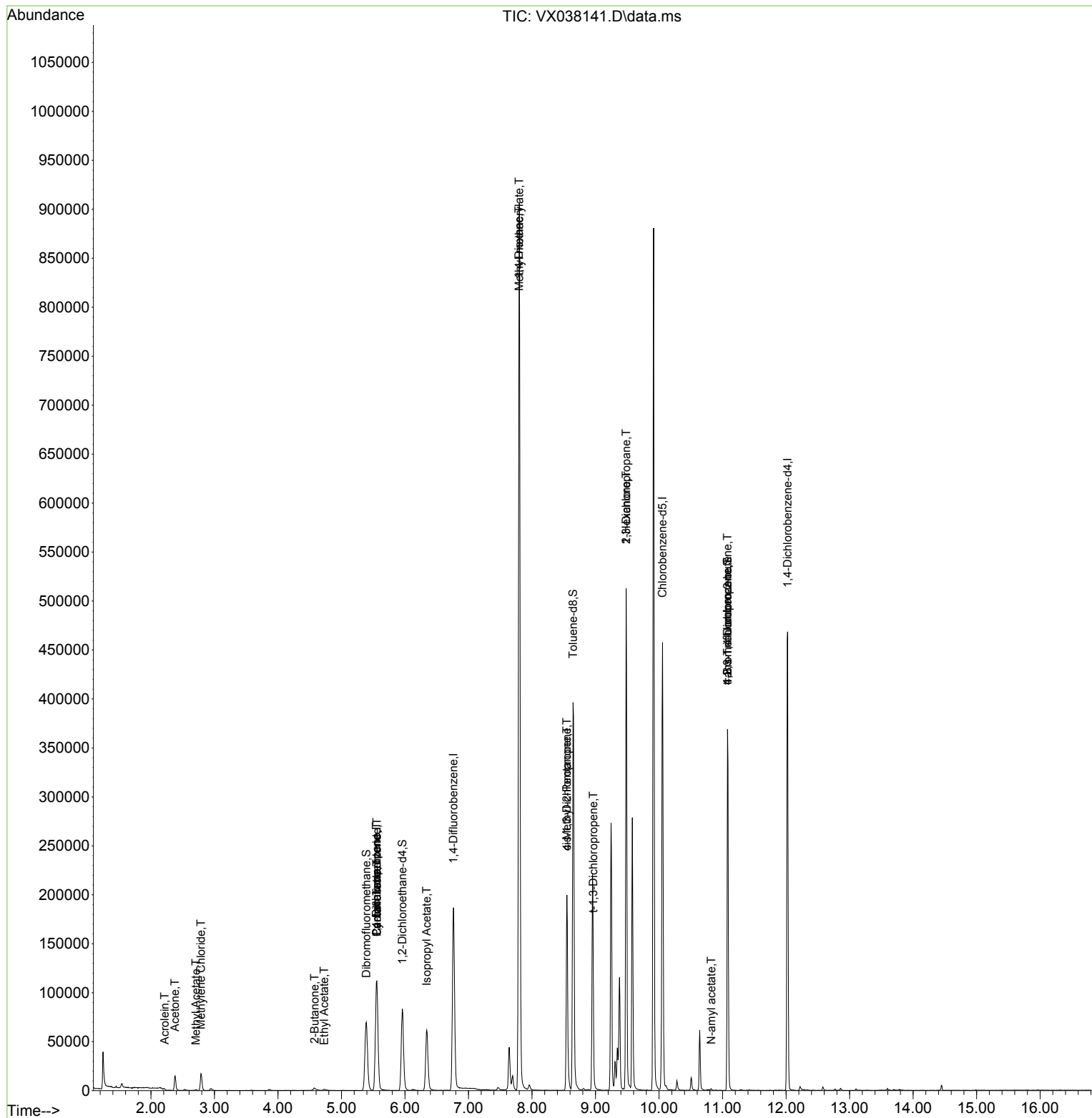
Internal Standards						
1) Pentafluorobenzene	5.556	168	103615	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	187149	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	196922	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	96501	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	77649	46.592	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	93.180%		
35) Dibromofluoromethane	5.391	113	59827	44.365	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	88.720%		
50) Toluene-d8	8.647	98	242825	47.123	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	94.240%		
62) 4-Bromofluorobenzene	11.079	95	92573	47.386	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	94.780%		
Target Compounds						
					Qvalue	
5) Bromomethane	1.672	94	65	Below Cal	#	3
6) Chloroethane	1.678	64	363	Below Cal	#	43
11) Tert butyl alcohol	2.947	59	1224	Below Cal	#	78
13) Acrolein	2.215	56	62	0.262	ug/l #	1
16) Acetone	2.380	43	15673	22.533	ug/l	91
18) Methyl Acetate	2.709	43	980	0.329	ug/l	98
20) Methylene Chloride	2.788	84	7678	5.869	ug/l	97
25) 2-Butanone	4.574	43	1975	1.760	ug/l #	87
31) Cyclohexane	5.556	56	2688	1.489	ug/l #	19
36) 1,1-Dichloropropene	5.550	75	9203	4.949	ug/l #	51
37) Ethyl Acetate	4.727	43	2333	1.056	ug/l #	87
38) Carbon Tetrachloride	5.556	117	10518	5.750	ug/l #	15
43) Isopropyl Acetate	6.342	43	84558	25.647	ug/l	98
48) Methyl methacrylate	7.799	41	80870	51.381	ug/l #	51
49) 1,4-Dioxane	7.793	88	140	3.610	ug/l #	1
51) 4-Methyl-2-Pentanone	8.549	43	70200	30.869	ug/l #	51
53) t-1,3-Dichloropropene	8.964	75	543	0.272	ug/l #	43
54) cis-1,3-Dichloropropene	8.549	75	31903	15.231	ug/l #	62
57) 1,3-Dichloropropane	9.482	76	4233	1.806	ug/l #	42
59) 2-Hexanone	9.482	43	55972	30.616	ug/l #	55
74) N-amyl acetate	10.823	43	651	0.236	ug/l #	44
76) 1,2,3-Trichloropropane	11.079	75	51046	23.268	ug/l #	38
81) trans-1,4-Dichloro-2-b...	11.079	75	51046	66.494	ug/l #	5

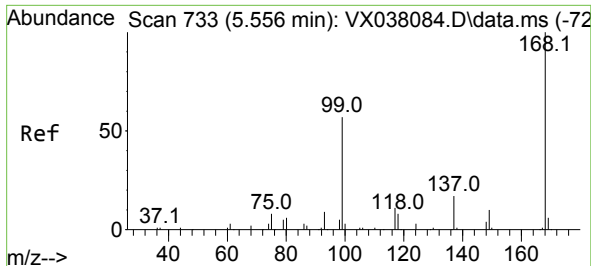
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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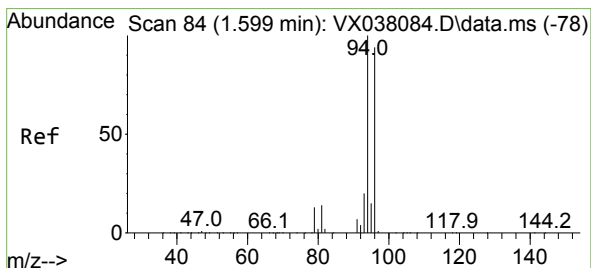
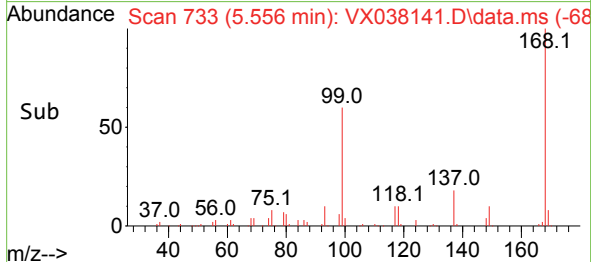
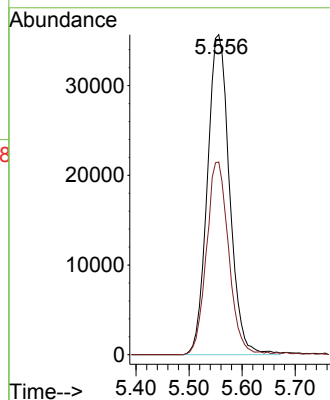
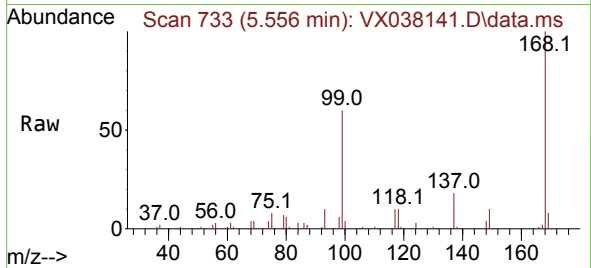




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX038141.D
Acq: 06 Oct 2023 19:14

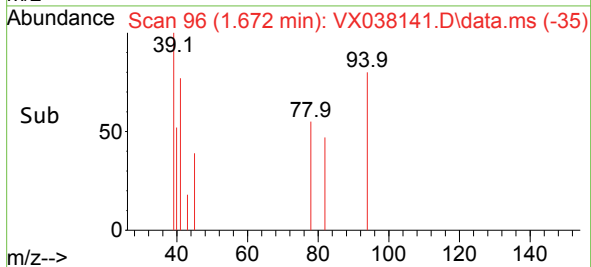
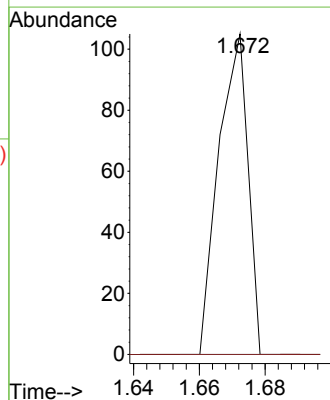
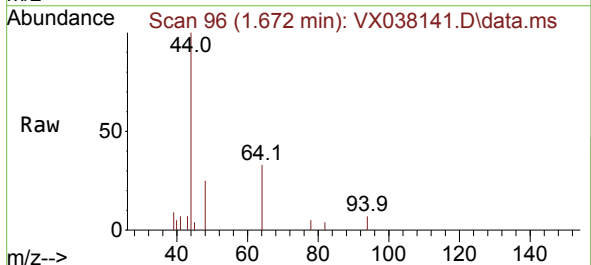
Instrument :
MSVOA_X
ClientSampleId :
SOIL-2

Tgt Ion:168 Resp: 103615
Ion Ratio Lower Upper
168 100
99 60.2 56.6 85.0



#5
Bromomethane
Concen: Below Cal
RT: 1.672 min Scan# 96
Delta R.T. 0.073 min
Lab File: VX038141.D
Acq: 06 Oct 2023 19:14

Tgt Ion: 94 Resp: 65
Ion Ratio Lower Upper
94 100
96 0.0 74.6 111.8#

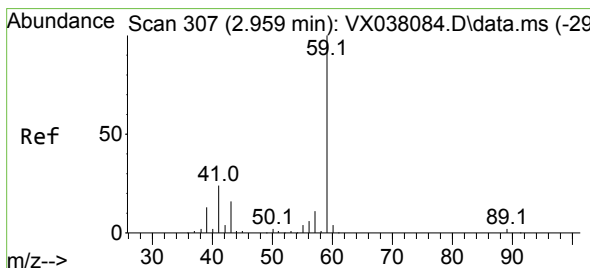
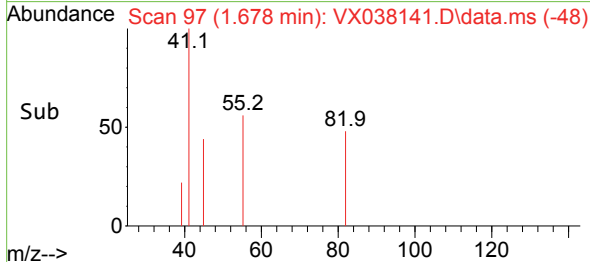
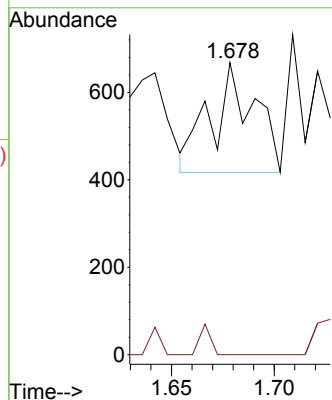
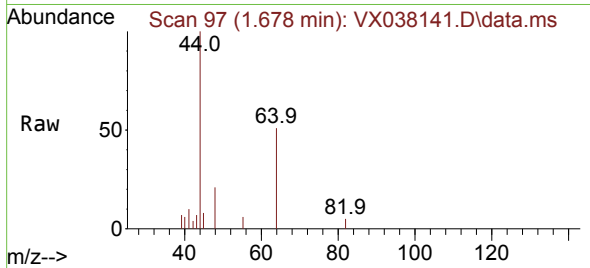




#6
Chloroethane
Concen: Below Cal
RT: 1.678 min Scan# 91
Delta R.T. -0.001 min
Lab File: VX038141.D
Acq: 06 Oct 2023 19:14

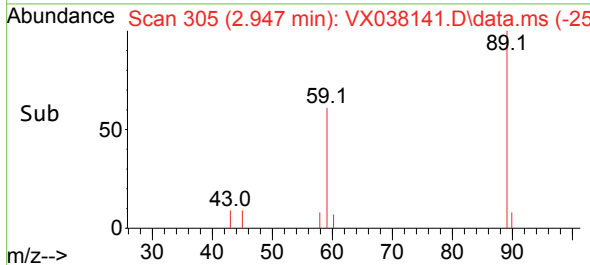
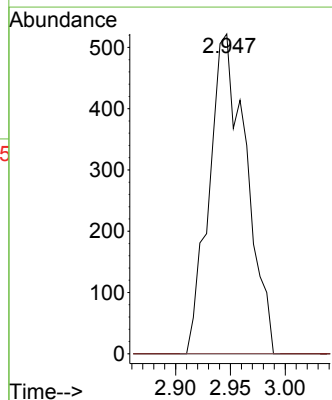
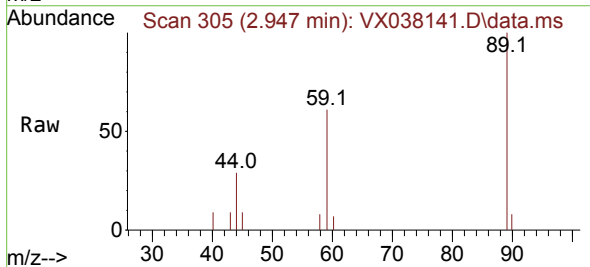
Instrument :
MSVOA_X
ClientSampleId :
SOIL-2

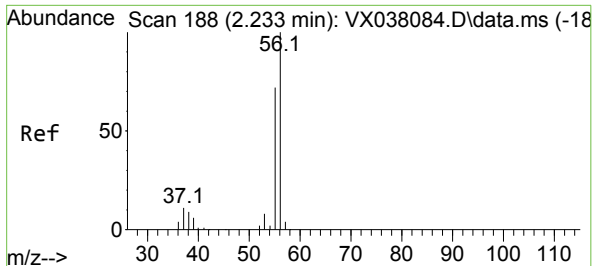
Tgt Ion: 64 Resp: 363
Ion Ratio Lower Upper
64 100
66 0.0 25.1 37.7#



#11
Tert butyl alcohol
Concen: Below Cal
RT: 2.947 min Scan# 305
Delta R.T. -0.012 min
Lab File: VX038141.D
Acq: 06 Oct 2023 19:14

Tgt Ion: 59 Resp: 1224
Ion Ratio Lower Upper
59 100
57 0.0 6.0 9.0#





#13

Acrolein

Concen: 0.262 ug/l

RT: 2.215 min Scan# 11

Delta R.T. -0.018 min

Lab File: VX038141.D

Acq: 06 Oct 2023 19:14

Instrument :

MSVOA_X

ClientSampleId :

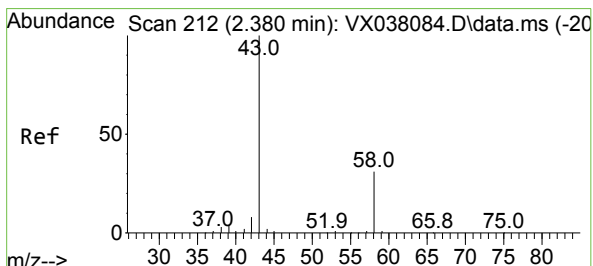
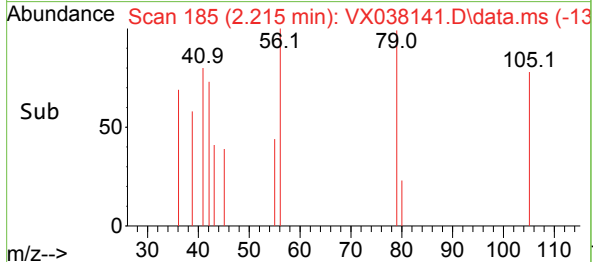
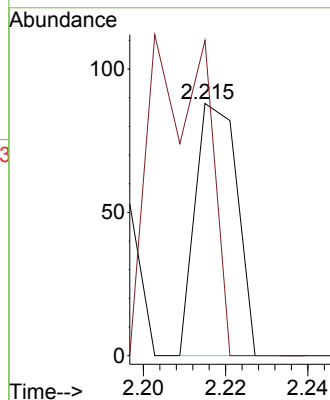
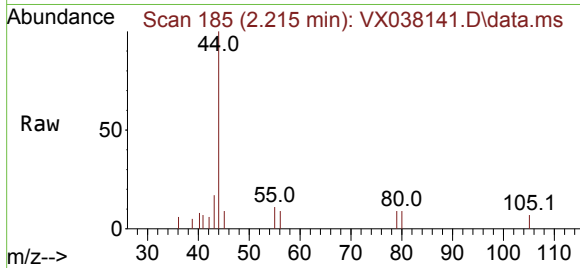
SOIL-2

Tgt Ion: 56 Resp: 62

Ion Ratio Lower Upper

56 100

55 174.2 57.1 85.7#



#16

Acetone

Concen: 22.533 ug/l

RT: 2.380 min Scan# 212

Delta R.T. -0.000 min

Lab File: VX038141.D

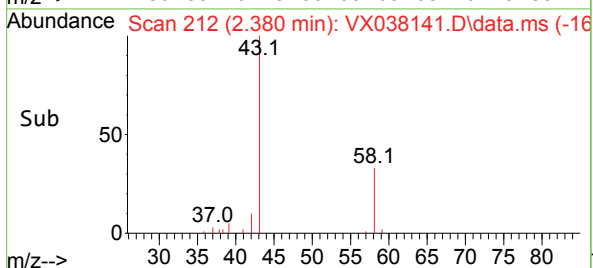
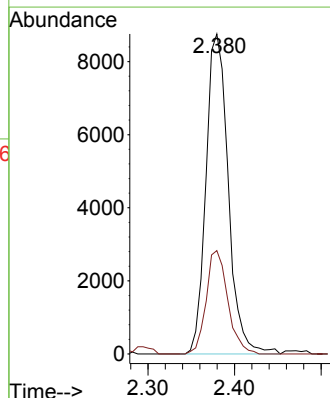
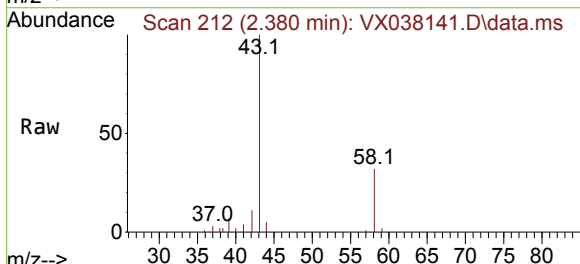
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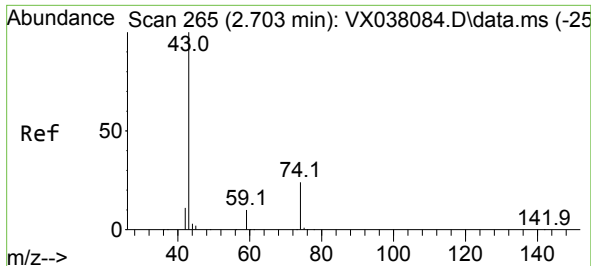
Tgt Ion: 43 Resp: 15673

Ion Ratio Lower Upper

43 100

58 32.3 21.9 32.9

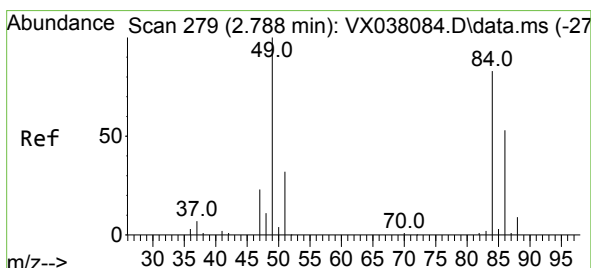
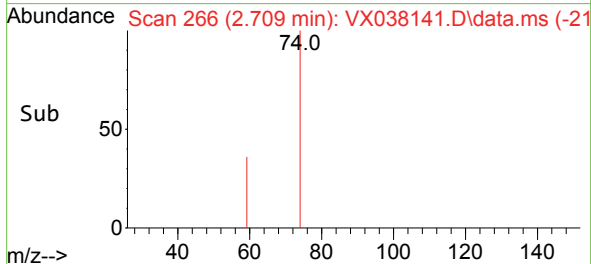
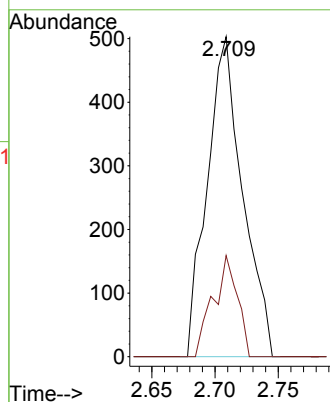
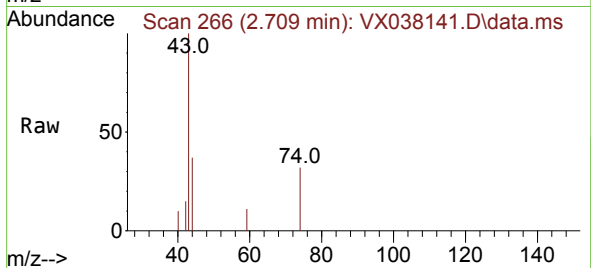




#18
Methyl Acetate
Concen: 0.329 ug/l
RT: 2.709 min Scan# 218
Delta R.T. 0.006 min
Lab File: VX038141.D
Acq: 06 Oct 2023 19:14

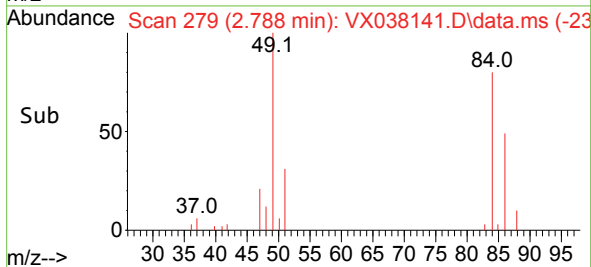
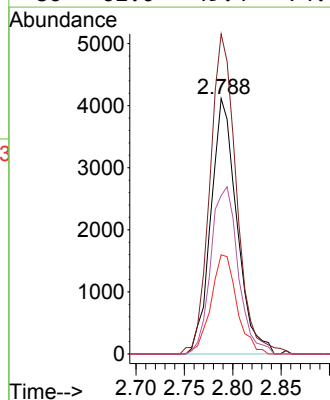
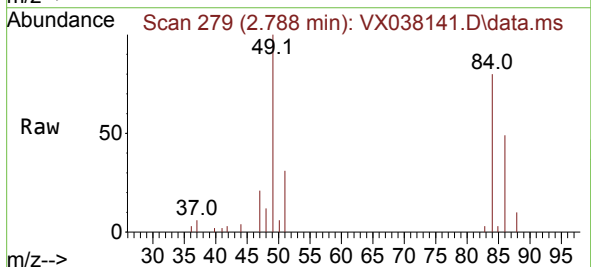
Instrument :
MSVOA_X
ClientSampleId :
SOIL-2

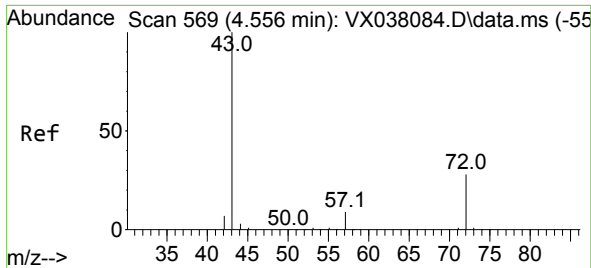
Tgt Ion: 43 Resp: 980
Ion Ratio Lower Upper
43 100
74 21.5 17.8 26.8



#20
Methylene Chloride
Concen: 5.869 ug/l
RT: 2.788 min Scan# 279
Delta R.T. 0.000 min
Lab File: VX038141.D
Acq: 06 Oct 2023 19:14

Tgt Ion: 84 Resp: 7678
Ion Ratio Lower Upper
84 100
49 125.3 103.6 155.4
51 38.9 33.8 50.6
86 62.0 49.4 74.0

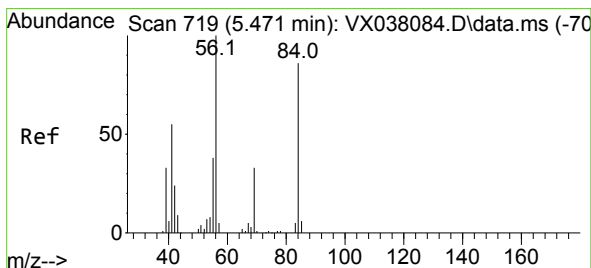
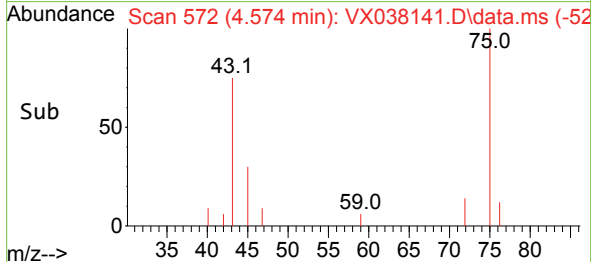
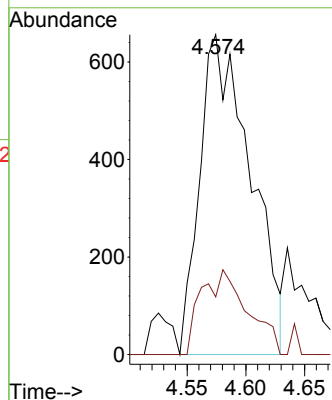
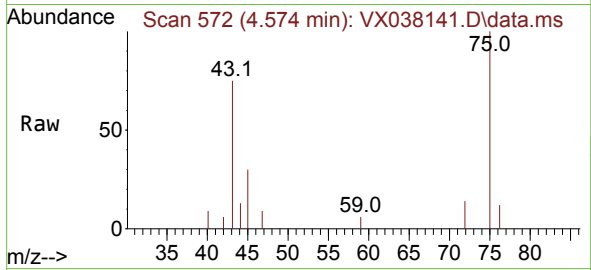




#25
2-Butanone
Concen: 1.760 ug/l
RT: 4.574 min Scan# 51
Delta R.T. 0.018 min
Lab File: VX038141.D
Acq: 06 Oct 2023 19:14

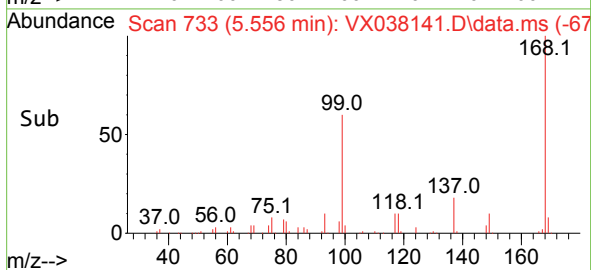
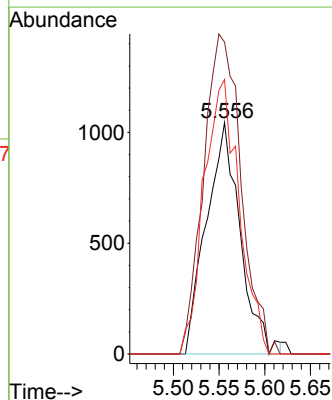
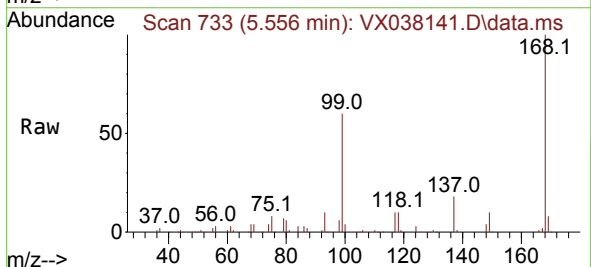
Instrument :
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ClientSampleId :
SOIL-2

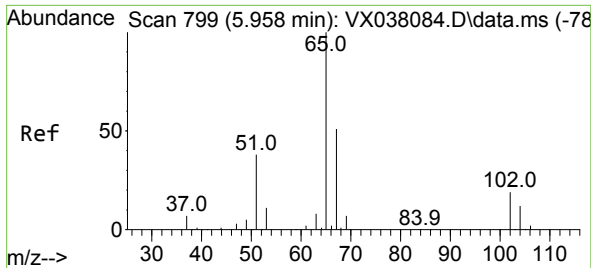
Tgt Ion: 43 Resp: 1975
Ion Ratio Lower Upper
43 100
72 18.0 19.4 29.2#



#31
Cyclohexane
Concen: 1.489 ug/l
RT: 5.556 min Scan# 733
Delta R.T. 0.085 min
Lab File: VX038141.D
Acq: 06 Oct 2023 19:14

Tgt Ion: 56 Resp: 2688
Ion Ratio Lower Upper
56 100
69 134.8 23.4 35.2#
84 118.7 65.9 98.9#

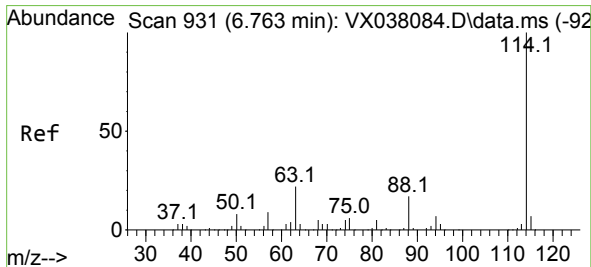
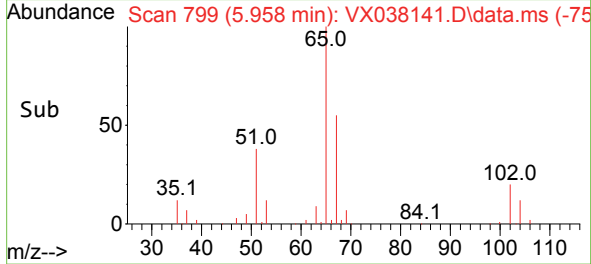
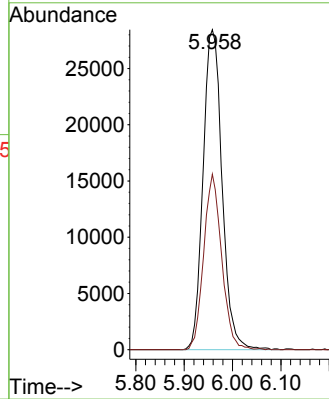
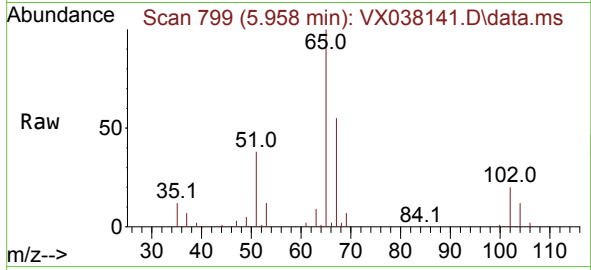




#33
 1,2-Dichloroethane-d4
 Concen: 46.592 ug/l
 RT: 5.958 min Scan# 799
 Delta R.T. 0.000 min
 Lab File: VX038141.D
 Acq: 06 Oct 2023 19:14

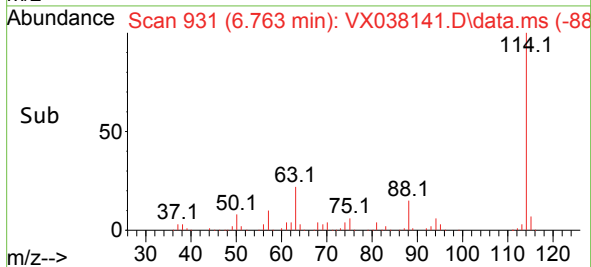
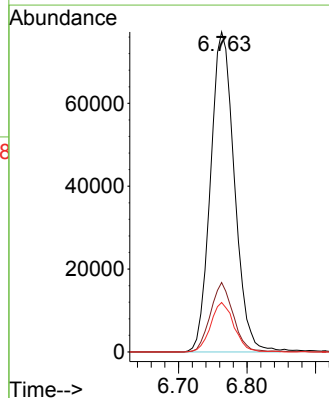
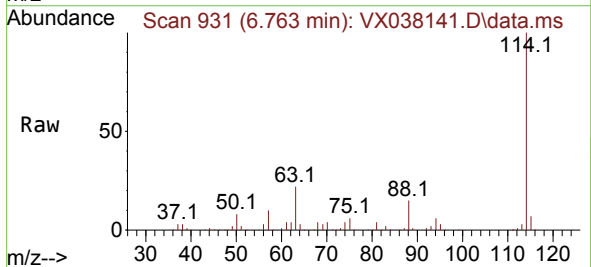
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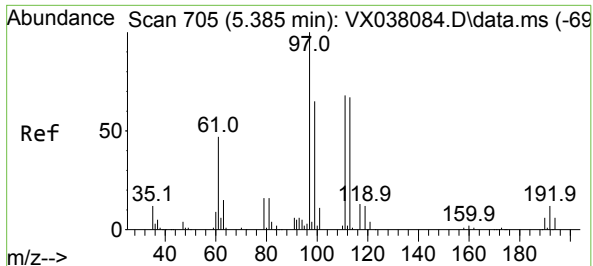
Tgt Ion: 65 Resp: 77649
 Ion Ratio Lower Upper
 65 100
 67 52.1 0.0 100.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.763 min Scan# 931
 Delta R.T. -0.000 min
 Lab File: VX038141.D
 Acq: 06 Oct 2023 19:14

Tgt Ion: 114 Resp: 187149
 Ion Ratio Lower Upper
 114 100
 63 21.7 0.0 45.0
 88 15.5 0.0 36.6

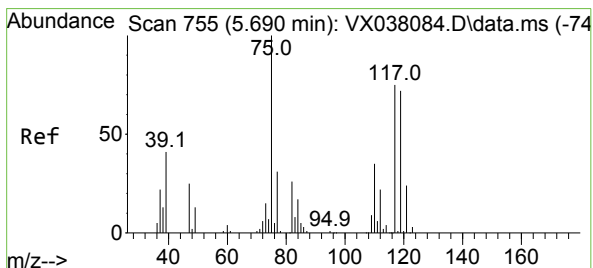
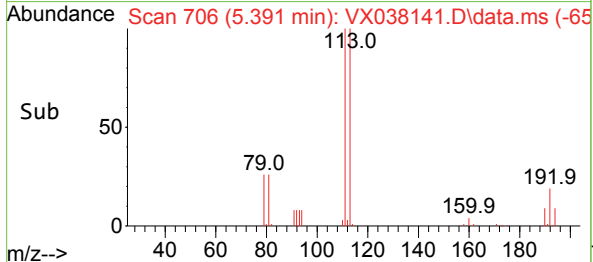
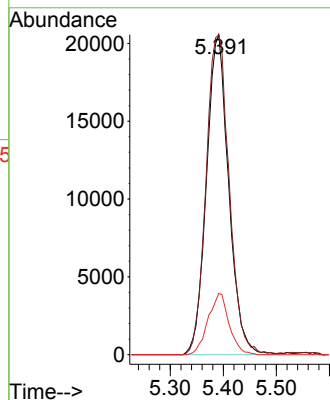
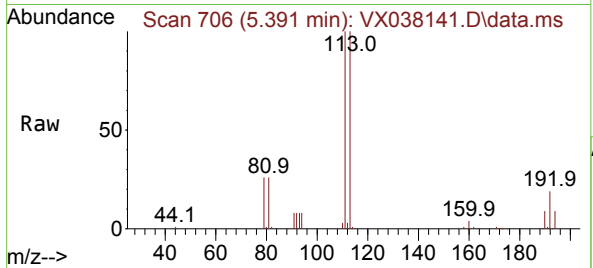




#35
Dibromofluoromethane
Concen: 44.365 ug/l
RT: 5.391 min Scan# 705
Delta R.T. 0.006 min
Lab File: VX038141.D
Acq: 06 Oct 2023 19:14

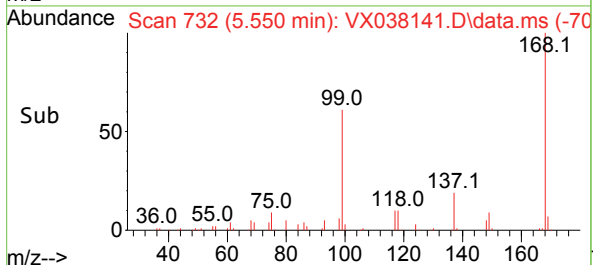
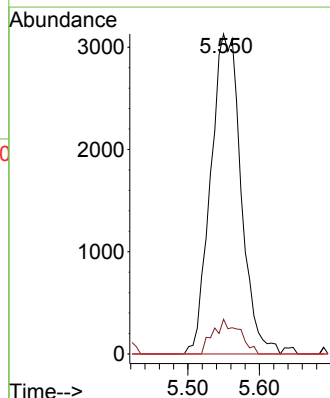
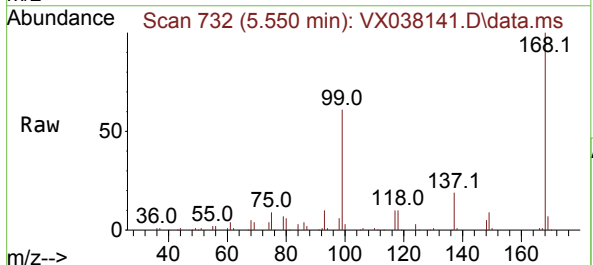
Instrument :
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SOIL-2

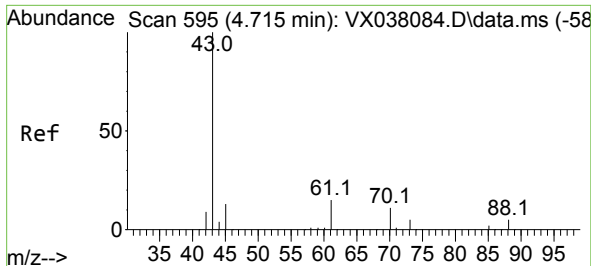
Tgt Ion:113 Resp: 59827
Ion Ratio Lower Upper
113 100
111 104.1 82.9 124.3
192 18.1 13.3 19.9



#36
1,1-Dichloropropene
Concen: 4.949 ug/l
RT: 5.550 min Scan# 732
Delta R.T. -0.140 min
Lab File: VX038141.D
Acq: 06 Oct 2023 19:14

Tgt Ion: 75 Resp: 9203
Ion Ratio Lower Upper
75 100
110 9.4 17.0 50.9#
77 0.0 24.7 37.1#

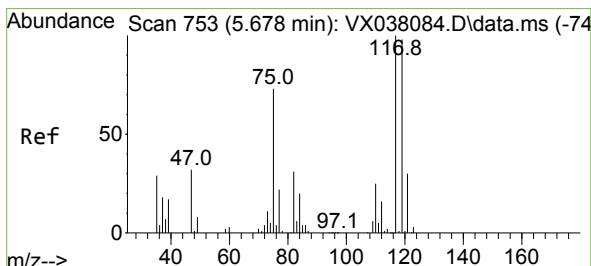
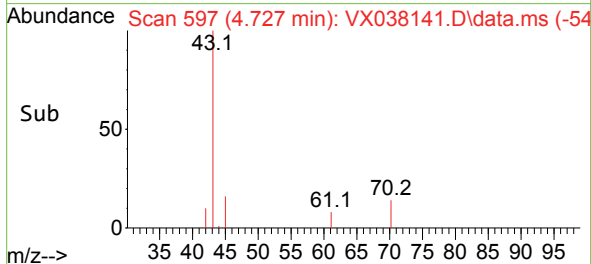
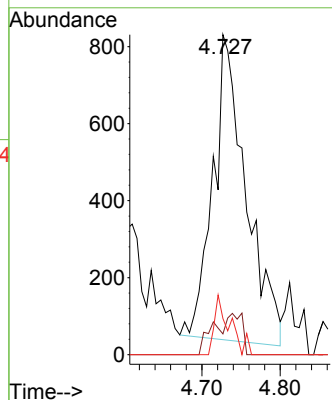
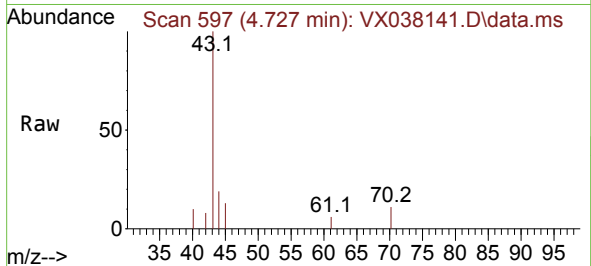




#37
Ethyl Acetate
Concen: 1.056 ug/l
RT: 4.727 min Scan# 597
Delta R.T. 0.012 min
Lab File: VX038141.D
Acq: 06 Oct 2023 19:14

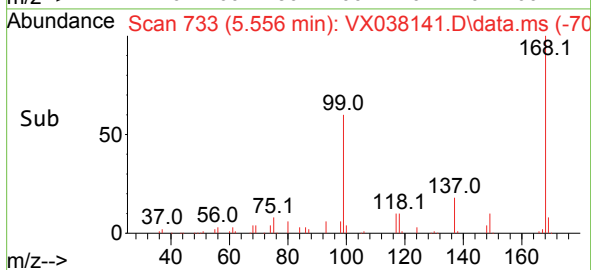
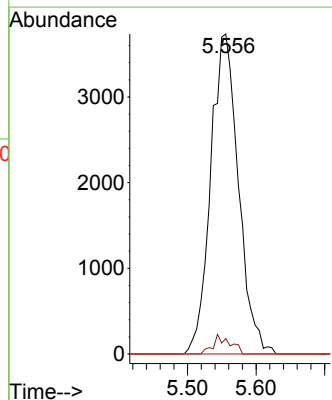
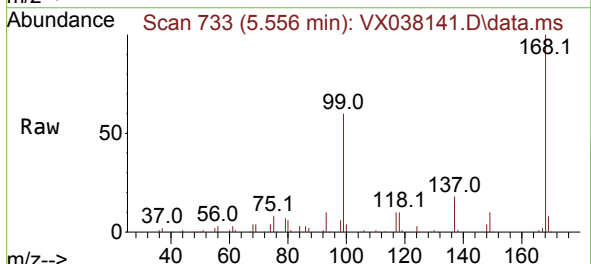
Instrument :
MSVOA_X
ClientSampleId :
SOIL-2

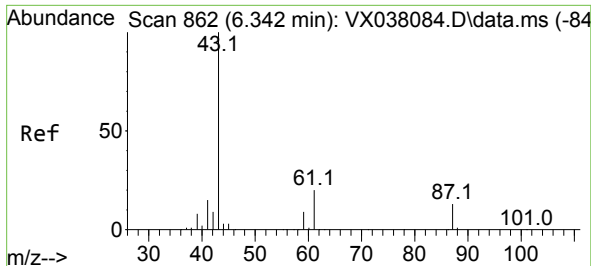
Tgt Ion: 43	Resp: 2333
Ion Ratio	Lower Upper
43 100	
61 5.0	10.6 16.0#
70 9.0	8.3 12.5



#38
Carbon Tetrachloride
Concen: 5.750 ug/l
RT: 5.556 min Scan# 733
Delta R.T. -0.122 min
Lab File: VX038141.D
Acq: 06 Oct 2023 19:14

Tgt Ion:117	Resp:	10518	
Ion	Ratio	Lower	Upper
117	100		
119	4.8	78.2	117.2#
121	0.0	24.4	36.6#

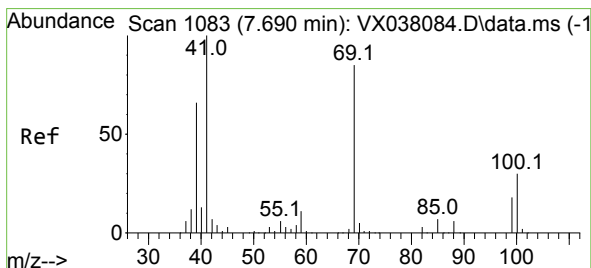
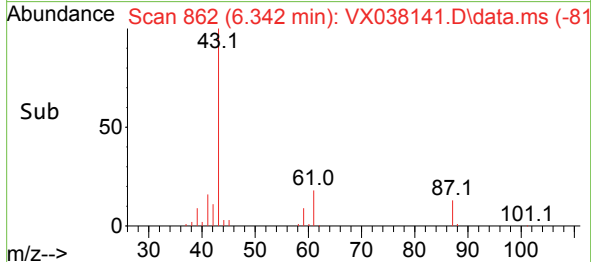
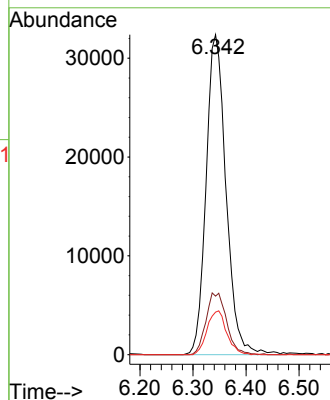
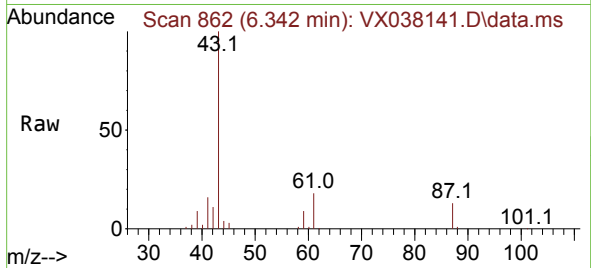




#43
Isopropyl Acetate
Concen: 25.647 ug/l
RT: 6.342 min Scan# 81
Delta R.T. 0.000 min
Lab File: VX038141.D
Acq: 06 Oct 2023 19:14

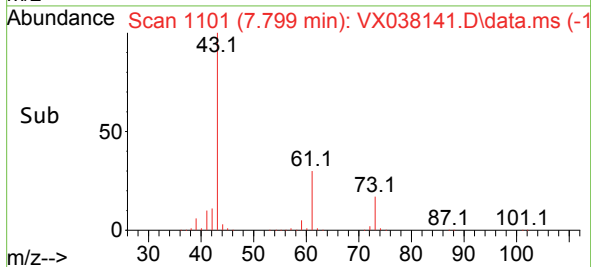
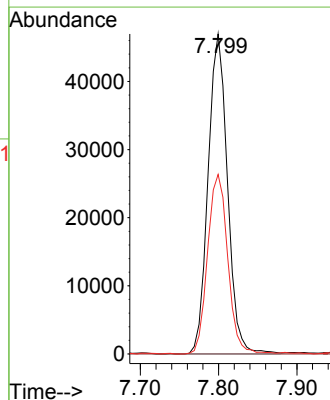
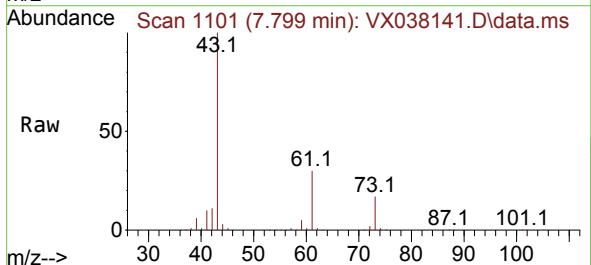
Instrument :
MSVOA_X
ClientSampleId :
SOIL-2

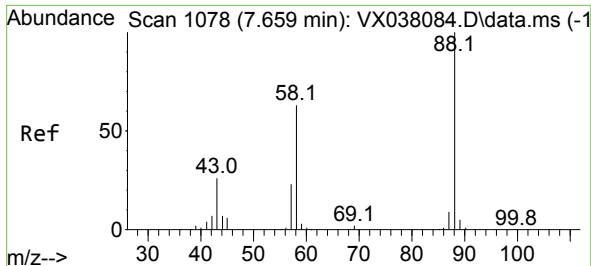
Tgt Ion: 43 Resp: 84558
Ion Ratio Lower Upper
43 100
61 19.9 15.2 22.8
87 13.4 9.8 14.6



#48
Methyl methacrylate
Concen: 51.381 ug/l
RT: 7.799 min Scan# 1101
Delta R.T. 0.109 min
Lab File: VX038141.D
Acq: 06 Oct 2023 19:14

Tgt Ion: 41 Resp: 80870
Ion Ratio Lower Upper
41 100
69 0.0 59.2 88.8#
39 58.2 47.7 71.5





#49

1,4-Dioxane

Concen: 3.610 ug/l

RT: 7.793 min Scan# 1100

Delta R.T. 0.134 min

Lab File: VX038141.D

Acq: 06 Oct 2023 19:14

Instrument :

MSVOA_X

ClientSampleId :

SOIL-2

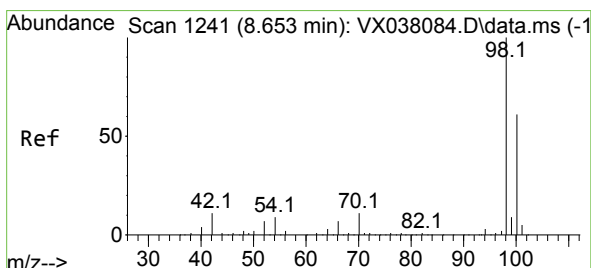
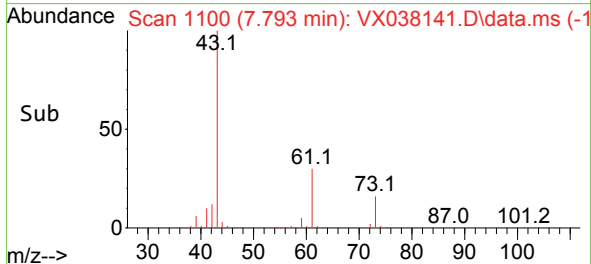
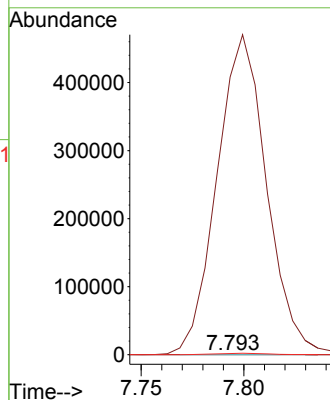
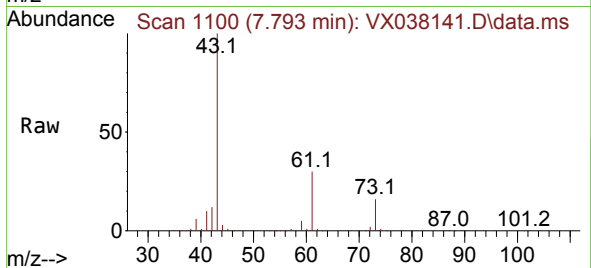
Tgt Ion: 88 Resp: 140

Ion Ratio Lower Upper

88 100

43 570656.4 0.0 0.0#

58 2636.4 60.1 90.1#



#50

Toluene-d8

Concen: 47.123 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. -0.006 min

Lab File: VX038141.D

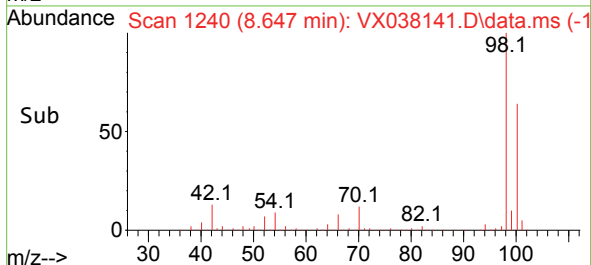
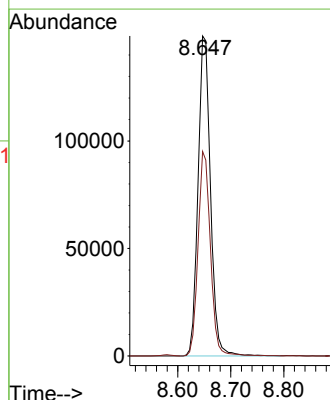
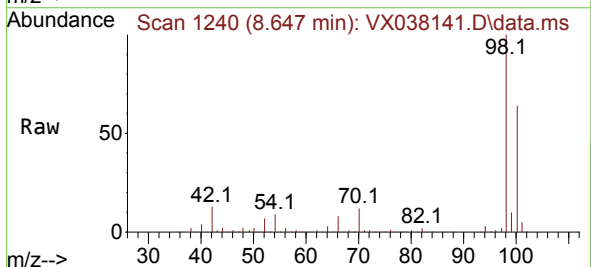
Acq: 06 Oct 2023 19:14

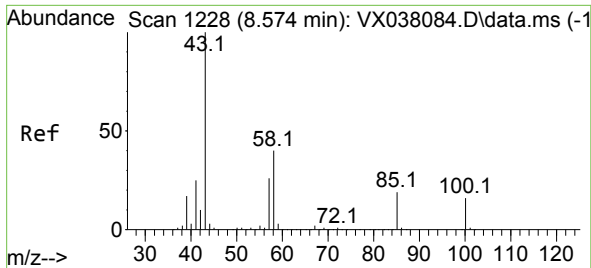
Tgt Ion: 98 Resp: 242825

Ion Ratio Lower Upper

98 100

100 63.6 53.1 79.7

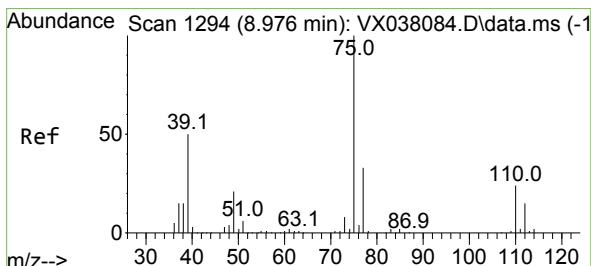
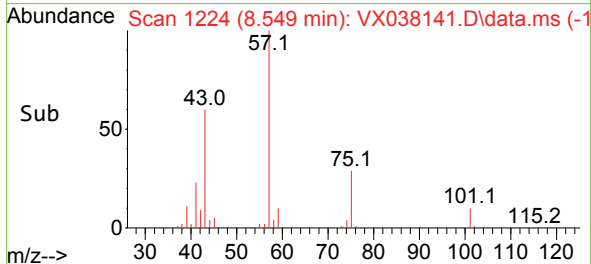
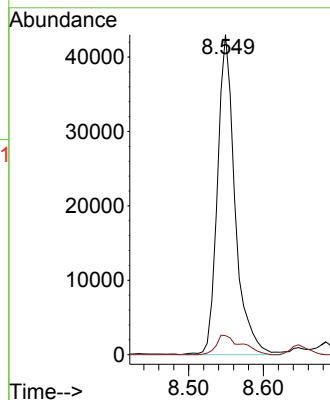
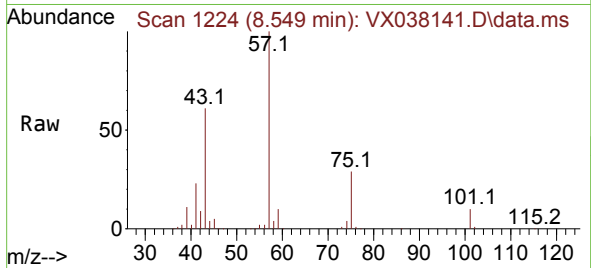




#51
4-Methyl-2-Pentanone
Concen: 30.869 ug/l
RT: 8.549 min Scan# 11
Delta R.T. -0.025 min
Lab File: VX038141.D
Acq: 06 Oct 2023 19:14

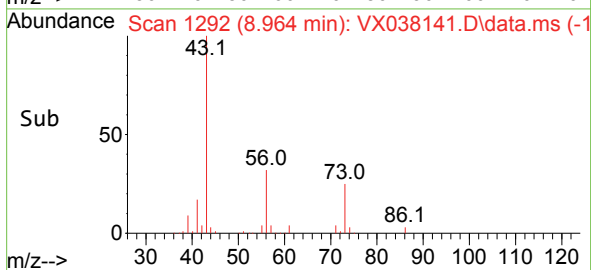
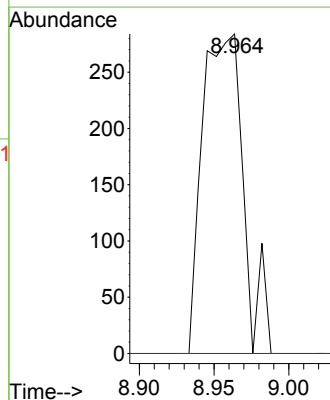
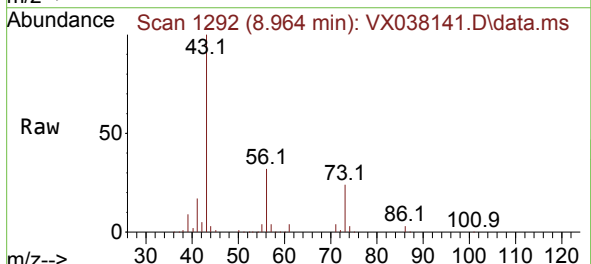
Instrument :
MSVOA_X
ClientSampleId :
SOIL-2

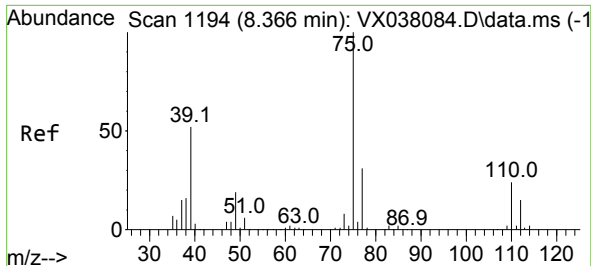
Tgt Ion: 43 Resp: 70200
Ion Ratio Lower Upper
43 100
58 8.7 30.4 45.6#



#53
t-1,3-Dichloropropene
Concen: 0.272 ug/l
RT: 8.964 min Scan# 1292
Delta R.T. -0.012 min
Lab File: VX038141.D
Acq: 06 Oct 2023 19:14

Tgt Ion: 75 Resp: 543
Ion Ratio Lower Upper
75 100
77 0.0 25.7 38.5#

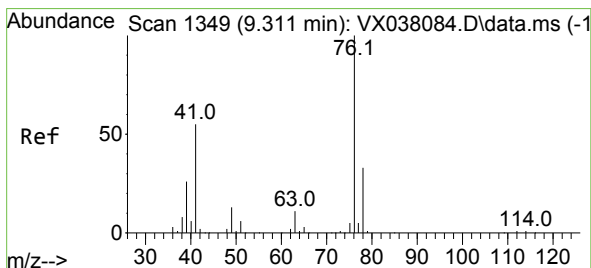
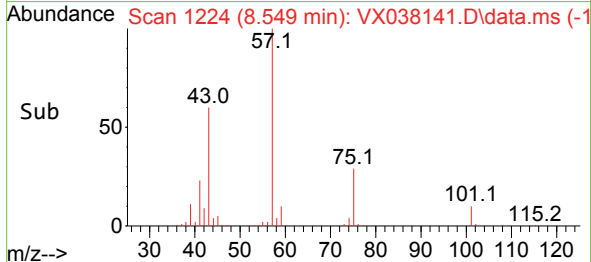
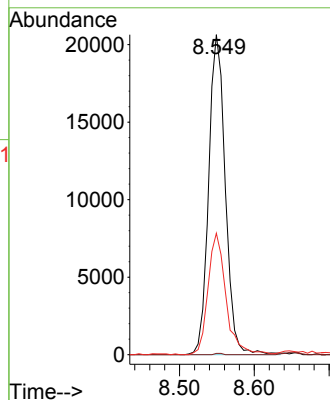
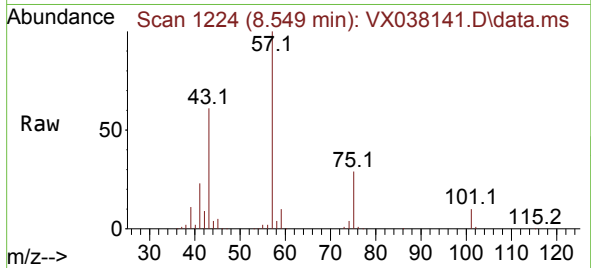




#54
 cis-1,3-Dichloropropene
 Concen: 15.231 ug/l
 RT: 8.549 min Scan# 1194
 Delta R.T. 0.183 min
 Lab File: VX038141.D
 Acq: 06 Oct 2023 19:14

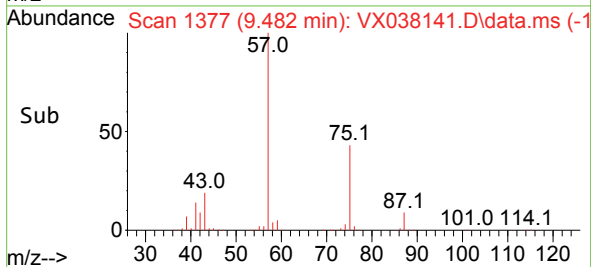
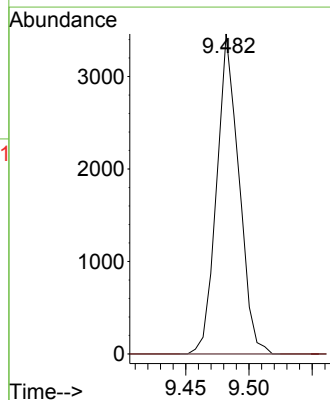
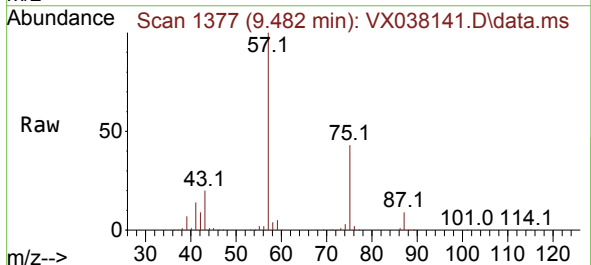
Instrument :
 MSVOA_X
 ClientSampleId :
 SOIL-2

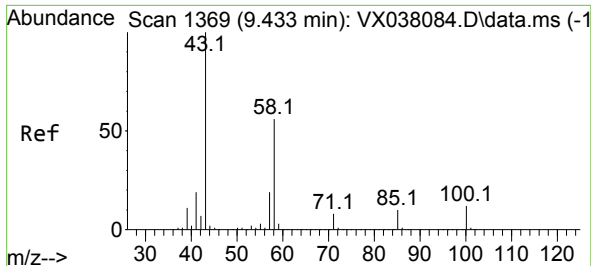
Tgt Ion: 75 Resp: 31903
 Ion Ratio Lower Upper
 75 100
 77 0.4 25.3 37.9#
 39 38.0 46.7 70.1#



#57
 1,3-Dichloropropane
 Concen: 1.806 ug/l
 RT: 9.482 min Scan# 1377
 Delta R.T. 0.171 min
 Lab File: VX038141.D
 Acq: 06 Oct 2023 19:14

Tgt Ion: 76 Resp: 4233
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.1 39.1#

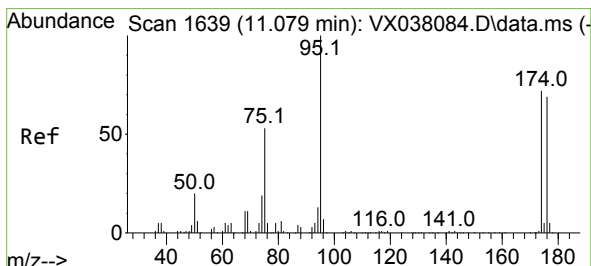
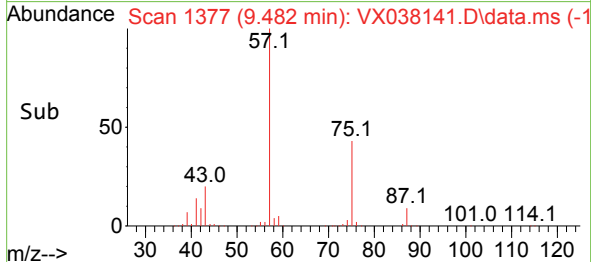
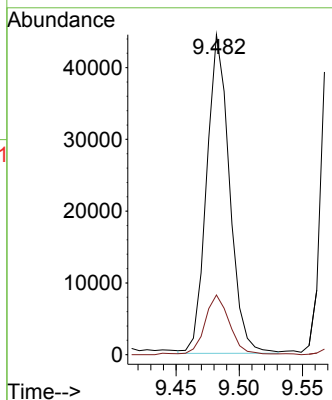
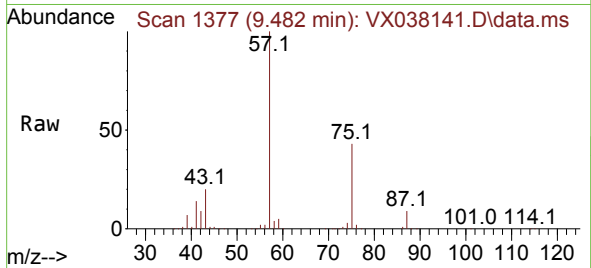




#59
2-Hexanone
Concen: 30.616 ug/l
RT: 9.482 min Scan# 11
Delta R.T. 0.049 min
Lab File: VX038141.D
Acq: 06 Oct 2023 19:14

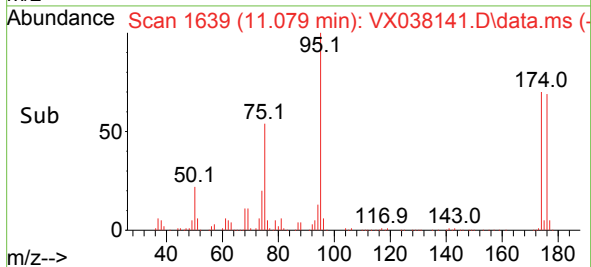
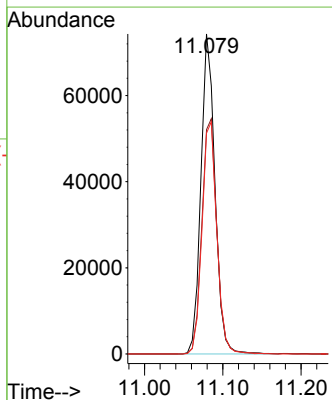
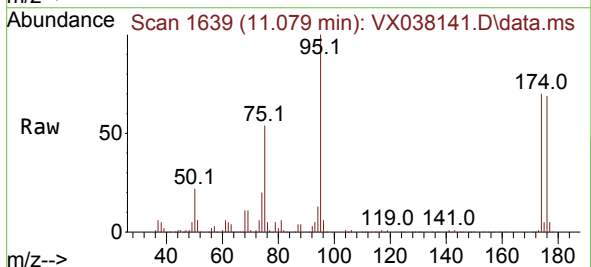
Instrument :
MSVOA_X
ClientSampleId :
SOIL-2

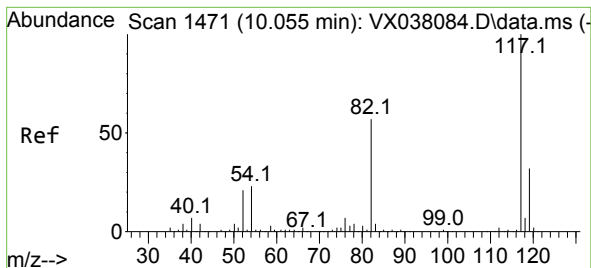
Tgt Ion: 43 Resp: 55972
Ion Ratio Lower Upper
43 100
58 20.5 26.2 78.5#



#62
4-Bromofluorobenzene
Concen: 47.386 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX038141.D
Acq: 06 Oct 2023 19:14

Tgt Ion: 95 Resp: 92573
Ion Ratio Lower Upper
95 100
174 78.2 0.0 135.6
176 76.2 0.0 131.0

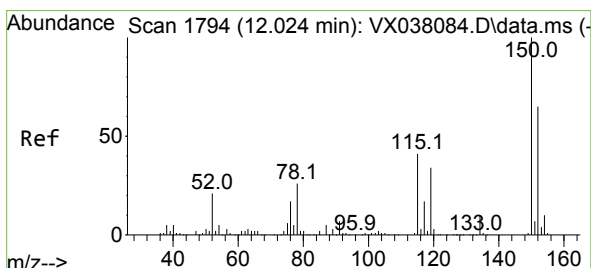
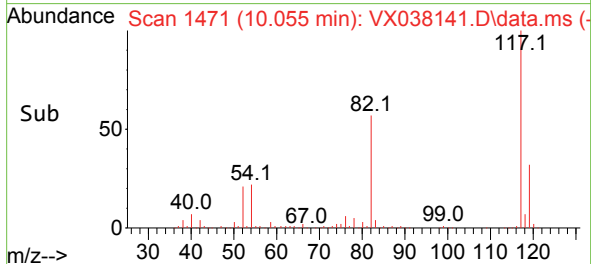
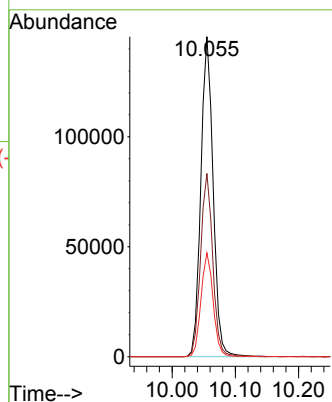
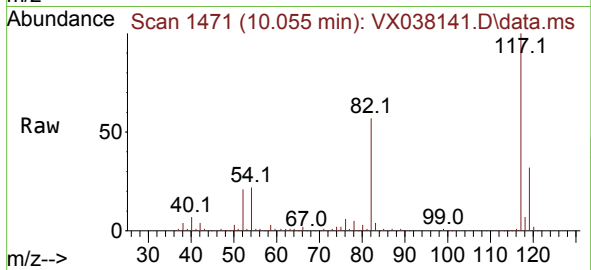




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX038141.D
Acq: 06 Oct 2023 19:14

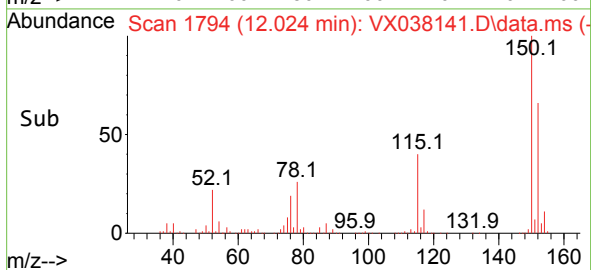
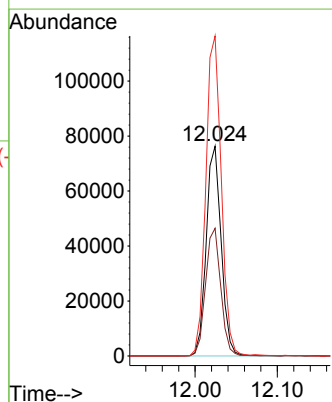
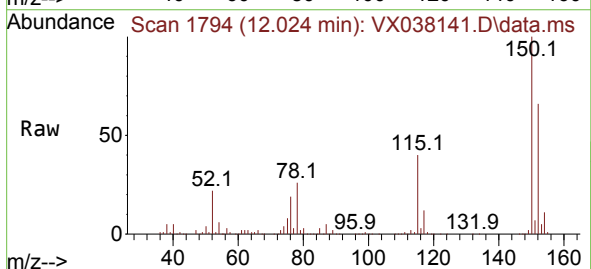
Instrument :
MSVOA_X
ClientSampleId :
SOIL-2

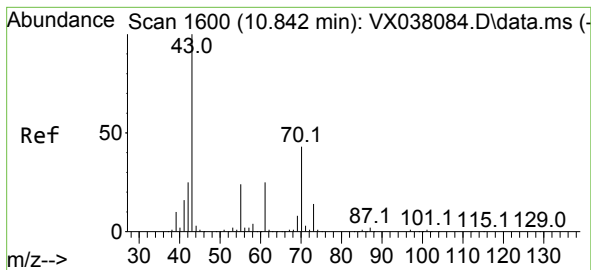
Tgt Ion:117 Resp: 196922
Ion Ratio Lower Upper
117 100
82 57.3 46.2 69.4
119 32.4 25.5 38.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.000 min
Lab File: VX038141.D
Acq: 06 Oct 2023 19:14

Tgt Ion:152 Resp: 96501
Ion Ratio Lower Upper
152 100
115 61.8 43.3 129.9
150 157.8 0.0 345.0





#74

N-amy1 acetate

Concen: 0.236 ug/l

RT: 10.823 min Scan# 1

Delta R.T. -0.019 min

Lab File: VX038141.D

Acq: 06 Oct 2023 19:14

Instrument :

MSVOA_X

ClientSampleId :

SOIL-2

Tgt Ion: 43 Resp: 651

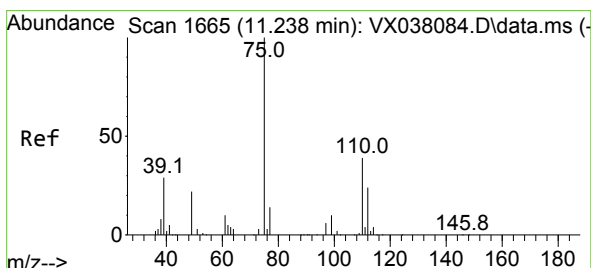
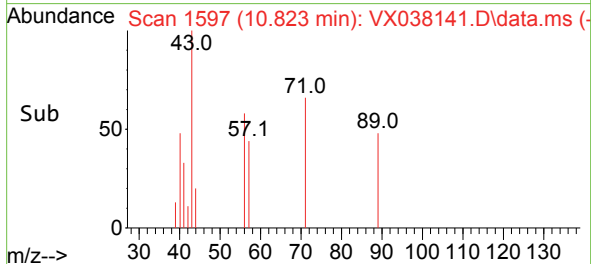
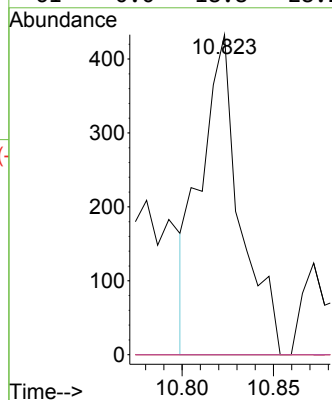
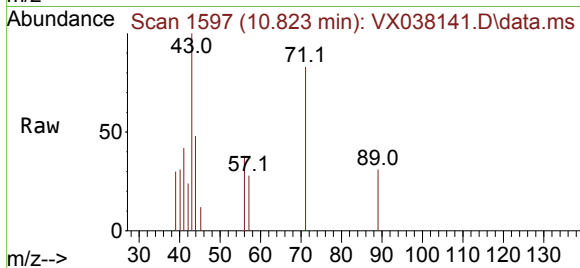
Ion Ratio Lower Upper

43 100

70 0.0 32.9 49.3#

55 0.0 19.3 28.9#

61 0.0 18.8 28.2#



#76

1,2,3-Trichloropropane

Concen: 23.268 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.159 min

Lab File: VX038141.D

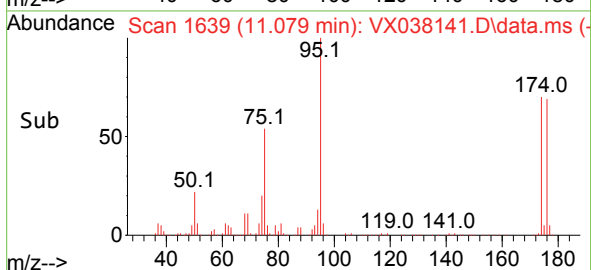
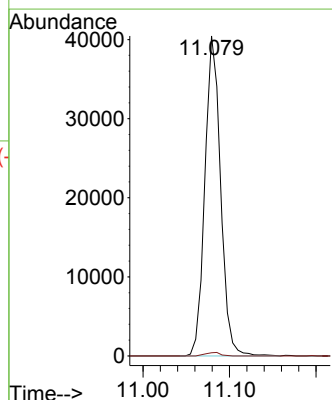
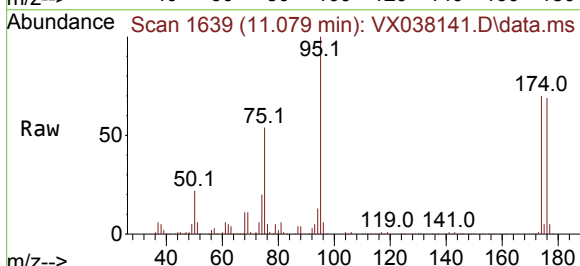
Acq: 06 Oct 2023 19:14

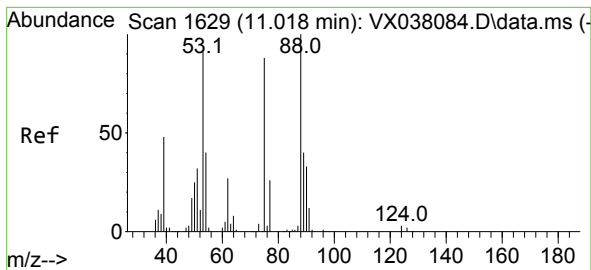
Tgt Ion: 75 Resp: 51046

Ion Ratio Lower Upper

75 100

77 1.0 19.1 57.5#





#81
trans-1,4-Dichloro-2-butene
Concen: 66.494 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.061 min
Lab File: VX038141.D
Acq: 06 Oct 2023 19:14

Instrument :
MSVOA_X
ClientSampleId :
SOIL-2

Tgt Ion: 75 Resp: 51046
Ion Ratio Lower Upper
75 100
53 0.0 90.5 135.7#
89 0.0 36.9 55.3#

