

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV111725\
 Data File : VV039394.D
 Acq On : 17 Nov 2025 16:03
 Operator : SY/MD
 Sample : Q3589-05
 Misc : 5.00g/5.0mL/100uL/5.0mL/MSVOA_V/MEOH
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-MED-SOIL-QT4-2025-07

Quant Time: Nov 18 01:45:05 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM111725WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Nov 18 01:21:06 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.532	114	1045657	50.000	ug/L	0.00
28) Chlorobenzene-d5	8.776	117	1056310	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.172	152	518578	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.291	65	476763	46.784	ug/L	0.00
Spiked Amount 50.000	Range 60 - 135		Recovery =	93.560%		
7) Chloroethane-d5	1.545	69	368074	48.378	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	96.760%		
11) 1,1-Dichloroethene-d2	2.072	65	204588	47.697	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	95.400%		
21) 2-Butanone-d5	3.786	46	504544	93.768	ug/L	0.00
Spiked Amount 100.000	Range 40 - 130		Recovery =	93.770%		
24) Chloroform-d	4.252	84	782433	46.328	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	92.660%		
26) 1,2-Dichloroethane-d4	4.941	65	506971	48.238	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	96.480%		
32) Benzene-d6	4.960	84	1550760	49.219	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	98.440%		
36) 1,2-Dichloropropane-d6	5.982	67	496423	50.484	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery =	100.960%		
41) Toluene-d8	7.236	98	1360360	46.749	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	93.500%		
43) trans-1,3-Dichloroprop...	7.548	79	226877	45.730	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	91.460%		
47) 2-Hexanone-d5	8.014	63	369415	98.340	ug/L	0.00
Spiked Amount 100.000	Range 45 - 130		Recovery =	98.340%		
56) 1,1,2,2-Tetrachloroeth...	10.140	84	674066	46.896	ug/L	0.00
Spiked Amount 50.000	Range 65 - 120		Recovery =	93.800%		
66) 1,2-Dichlorobenzene-d4	11.548	152	532399	54.657	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	109.320%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.121	85	15473	2.109	ug/L	92
3) Chloromethane	1.230	50	16406	2.040	ug/L	93
5) Vinyl chloride	1.124	62	151	0.017	ug/L	85
6) Bromomethane	1.500	94	12477	2.472	ug/L	99
8) Chloroethane	1.561	64	13001	2.180	ug/L	84
9) Trichlorofluoromethane	1.728	101	29630	2.021	ug/L	98
10) 1,1,2-Trichloro-1,2,2-...	2.018	101	145	0.016	ug/L	92
12) 1,1-Dichloroethene	2.079	96	20052	2.615	ug/L #	1
13) Acetone	2.124	43	29648	4.070	ug/L	94
14) Carbon disulfide	2.256	76	46506	2.137	ug/L	99
15) Methyl Acetate	2.397	43	19612	2.072	ug/L #	83
16) Methylene chloride	2.462	84	21547	2.399	ug/L	97
17) trans-1,2-Dichloroethene	2.709	96	16505	2.064	ug/L	98
18) Methyl tert-butyl Ether	2.712	73	44783	1.835	ug/L	97
19) 1,1-Dichloroethane	3.124	63	31375	1.980	ug/L	94
20) cis-1,2-Dichloroethene	3.828	96	8669	1.007	ug/L	93
22) 2-Butanone	3.905	43	4779	0.659	ug/L	84
23) Bromochloromethane	4.172	128	10958	2.155	ug/L #	91
25) Chloroform	4.281	83	46905	2.710	ug/L	98

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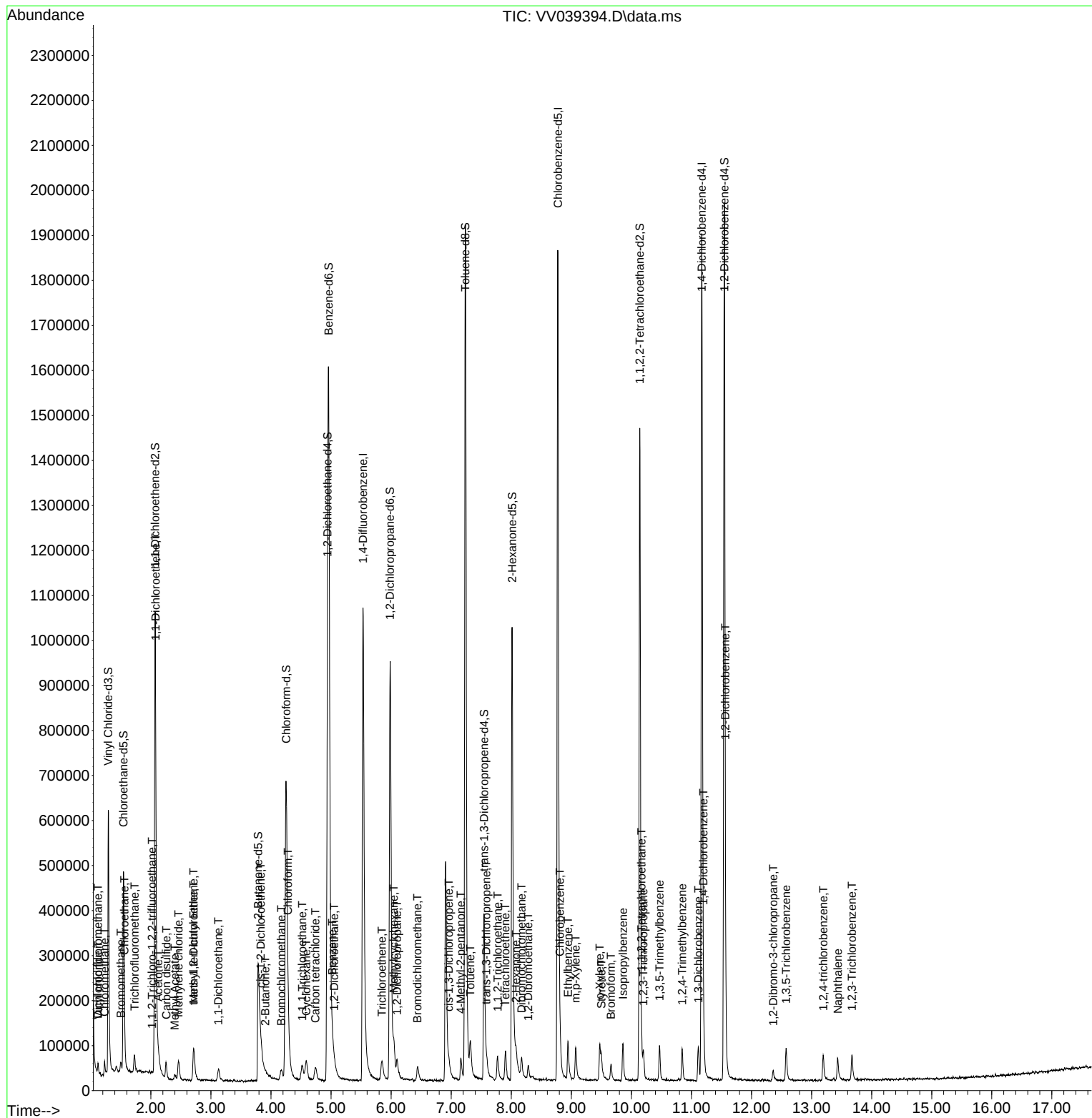
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
27) 1,2-Dichloroethane	5.053	62	23268	1.824	ug/L	98
29) Cyclohexane	4.587	56	19842	1.587	ug/L #	94
30) 1,1,1-Trichloroethane	4.519	97	26605	1.781	ug/L	98
31) Carbon tetrachloride	4.738	117	27375	1.990	ug/L	96
33) Benzene	5.018	78	72587	2.201	ug/L	100
34) Trichloroethene	5.847	95	18055	2.026	ug/L	93
35) Methylcyclohexane	6.043	83	23976	1.831	ug/L	96
37) 1,2-Dichloropropane	6.098	63	17022	1.825	ug/L #	94
38) Bromodichloromethane	6.436	83	25624	1.976	ug/L	98
39) cis-1,3-Dichloropropene	6.960	75	26444	1.841	ug/L	96
40) 4-Methyl-2-pentanone	7.159	43	36770	3.136	ug/L	95
42) Toluene	7.320	91	69049	1.975	ug/L	100
44) trans-1,3-Dichloropropene	7.583	75	38230	2.761	ug/L	96
45) 1,1,2-Trichloroethane	7.773	97	18574	1.915	ug/L	93
46) Tetrachloroethene	7.902	164	17951	2.193	ug/L	96
48) 2-Hexanone	8.082	43	32723	3.340	ug/L #	90
49) Dibromochloromethane	8.172	129	22256	2.008	ug/L	96
50) 1,2-Dibromoethane	8.284	107	22008	2.106	ug/L	99
51) Chlorobenzene	8.809	112	52211	2.084	ug/L	97
52) Ethylbenzene	8.944	91	64719	1.703	ug/L	99
53) m,p-Xylene	9.072	106	24218	1.665	ug/L	95
54) o-Xylene	9.474	106	21688	1.561	ug/L	94
55) Styrene	9.500	104	33514	1.371	ug/L	94
57) 1,1,2,2-Tetrachloroethane	10.169	83	34686	2.225	ug/L #	98
59) Bromoform	9.661	173	18553	2.338	ug/L	96
60) Isopropylbenzene	9.860	105	59851	1.896	ug/L	97
61) 1,2,3-Trichloropropane	10.201	75	25481	2.520	ug/L	99
62) 1,3,5-Trimethylbenzene	10.468	105	45030	1.827	ug/L	97
63) 1,2,4-Trimethylbenzene	10.847	105	39594	1.634	ug/L	95
64) 1,3-Dichlorobenzene	11.114	146	34928	2.033	ug/L	96
65) 1,4-Dichlorobenzene	11.197	146	44152	2.385	ug/L	96
67) 1,2-Dichlorobenzene	11.564	146	42756	2.491	ug/L #	94
68) 1,2-Dibromo-3-chloropr...	12.361	75	7491	2.639	ug/L	99
69) 1,3,5-Trichlorobenzene	12.577	180	26634	2.176	ug/L	97
70) 1,2,4-trichlorobenzene	13.194	180	20978	1.967	ug/L	99
71) Naphthalene	13.435	128	49793	1.658	ug/L	99
72) 1,2,3-Trichlorobenzene	13.673	180	21442	1.940	ug/L	98

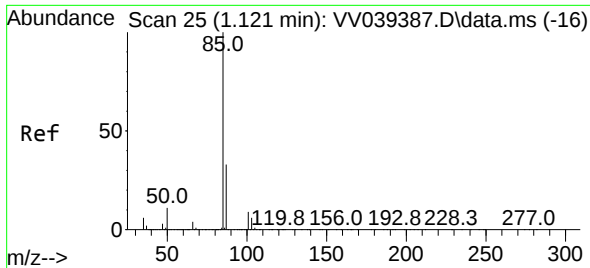
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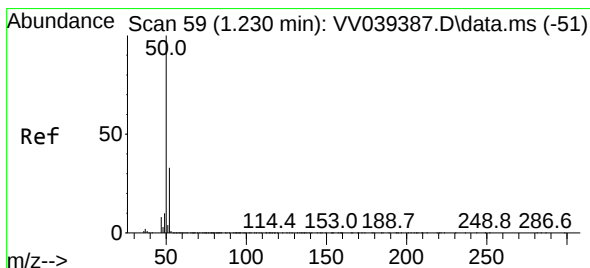
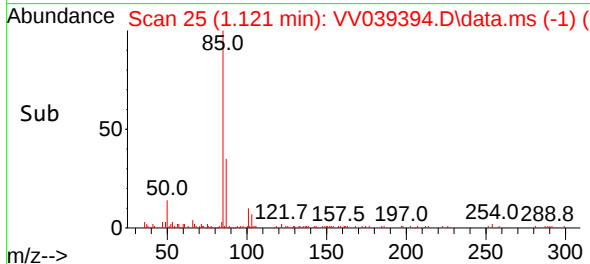
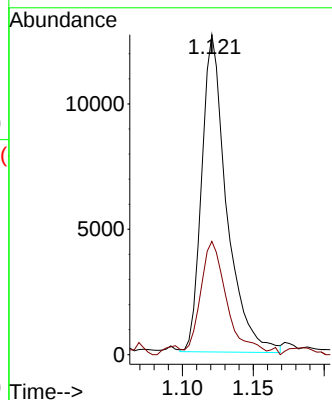
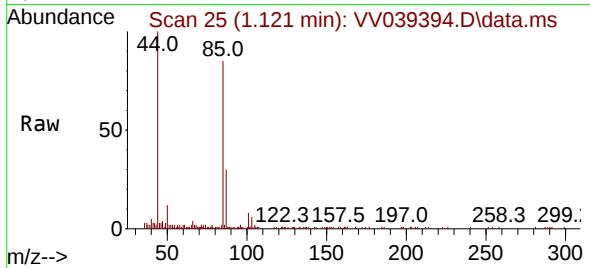




#2
Dichlorodifluoromethane
Concen: 2.109 ug/L
RT: 1.121 min Scan# 21
Delta R.T. 0.000 min
Lab File: VV039394.D
Acq: 17 Nov 2025 16:03

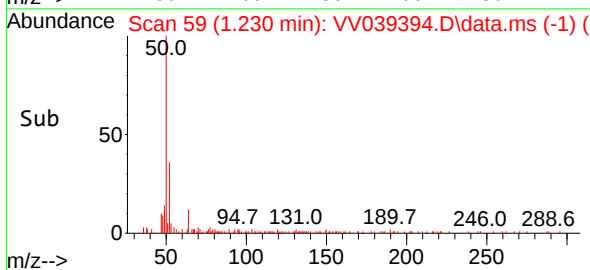
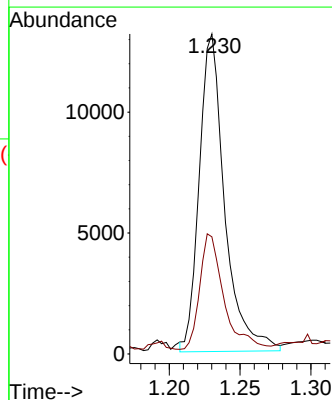
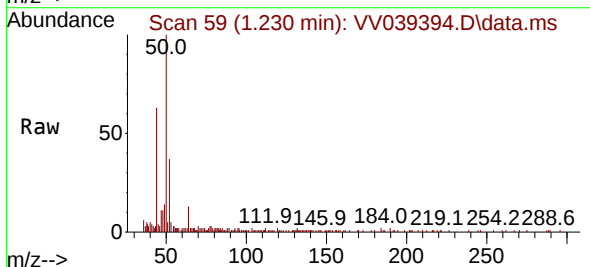
Instrument :
MSVOA_V
ClientSampleId :
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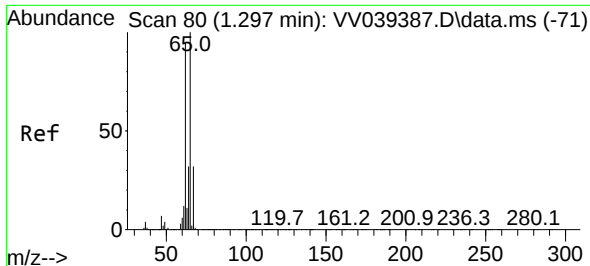
Tgt Ion: 85 Resp: 15473
Ion Ratio Lower Upper
85 100
87 37.0 26.1 39.1



#3
Chloromethane
Concen: 2.040 ug/L
RT: 1.230 min Scan# 59
Delta R.T. 0.000 min
Lab File: VV039394.D
Acq: 17 Nov 2025 16:03

Tgt Ion: 50 Resp: 16406
Ion Ratio Lower Upper
50 100
52 36.6 22.7 42.3

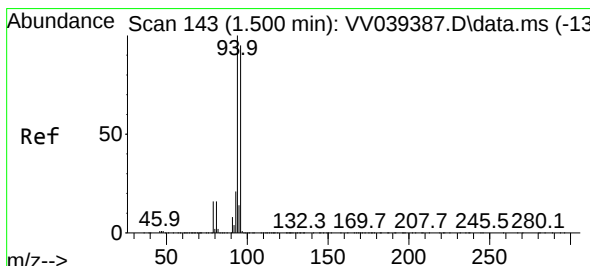
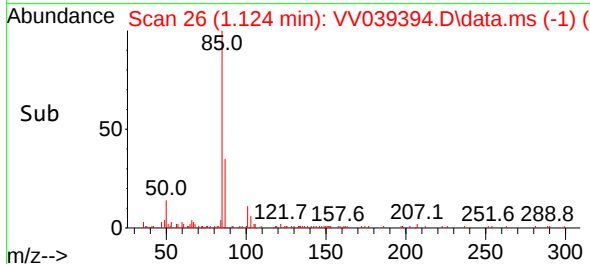
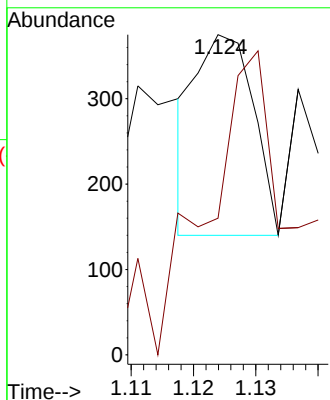
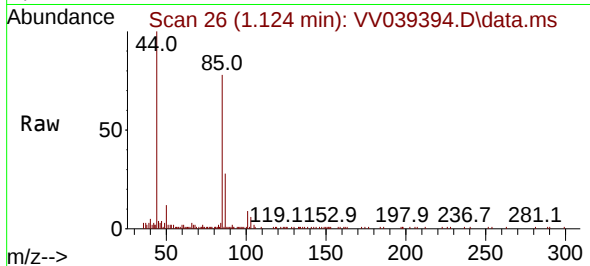




#5
 Vinyl chloride
 Concen: 0.017 ug/L
 RT: 1.124 min Scan# 20
 Delta R.T. -0.174 min
 Lab File: VV039394.D
 Acq: 17 Nov 2025 16:03

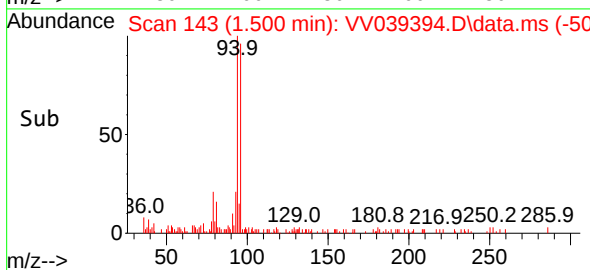
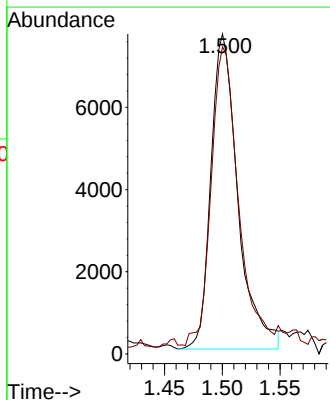
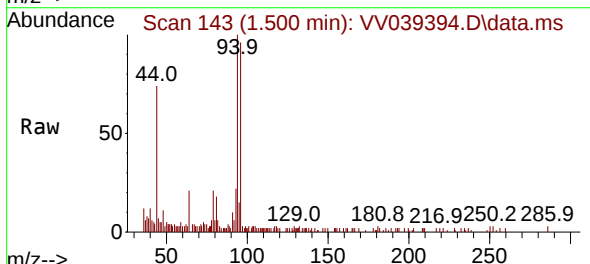
Instrument :
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 ClientSampleId :
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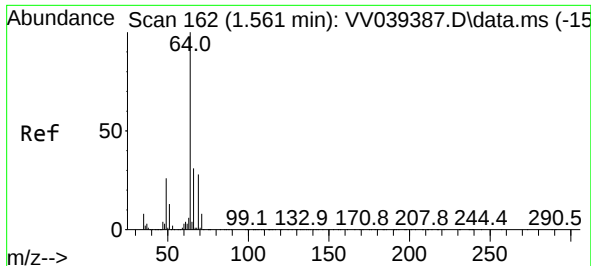
Tgt Ion: 62 Resp: 151
 Ion Ratio Lower Upper
 62 100
 64 42.7 23.7 44.1



#6
 Bromomethane
 Concen: 2.472 ug/L
 RT: 1.500 min Scan# 143
 Delta R.T. 0.000 min
 Lab File: VV039394.D
 Acq: 17 Nov 2025 16:03

Tgt Ion: 94 Resp: 12477
 Ion Ratio Lower Upper
 94 100
 96 96.0 66.6 123.8

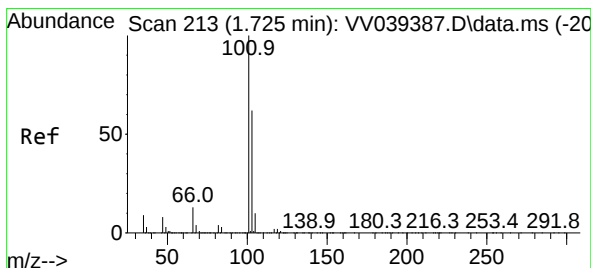
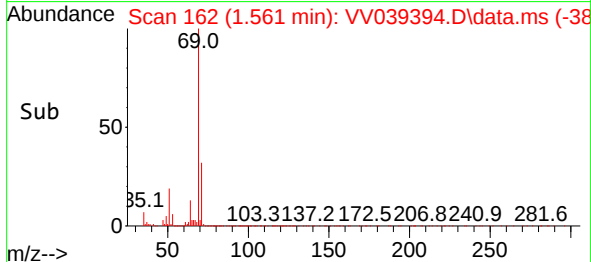
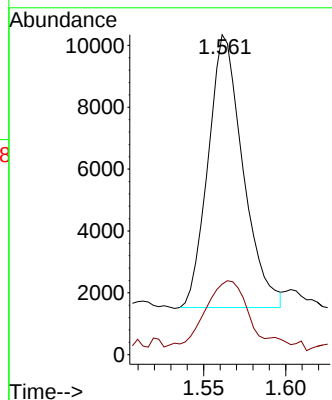
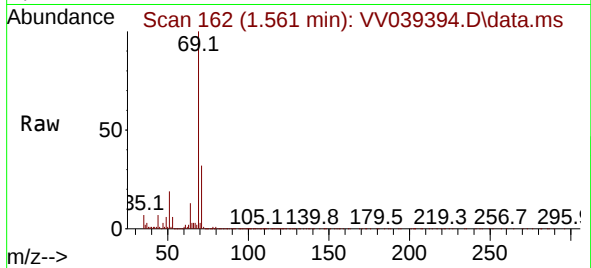




#8
Chloroethane
Concen: 2.180 ug/L
RT: 1.561 min Scan# 1
Delta R.T. 0.000 min
Lab File: VV039394.D
Acq: 17 Nov 2025 16:03

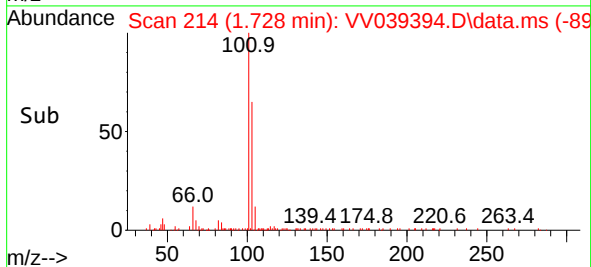
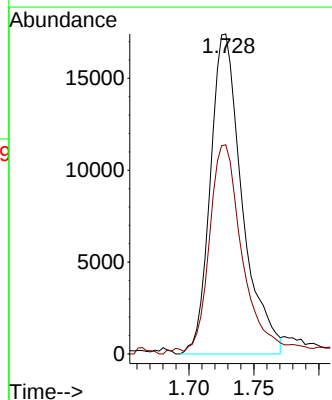
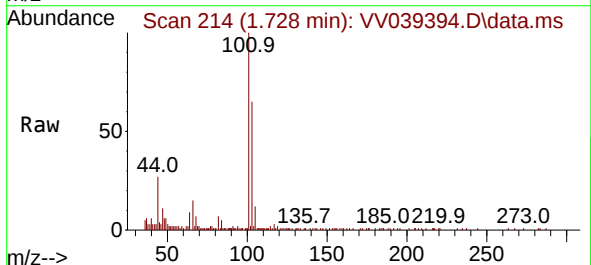
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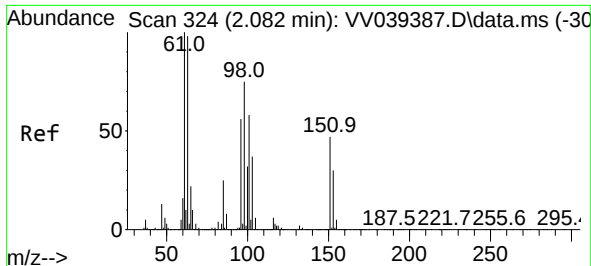
Tgt Ion: 64 Resp: 13001
Ion Ratio Lower Upper
64 100
66 22.1 21.6 40.2



#9
Trichlorofluoromethane
Concen: 2.021 ug/L
RT: 1.728 min Scan# 214
Delta R.T. 0.003 min
Lab File: VV039394.D
Acq: 17 Nov 2025 16:03

Tgt Ion: 101 Resp: 29630
Ion Ratio Lower Upper
101 100
103 65.1 51.0 76.6

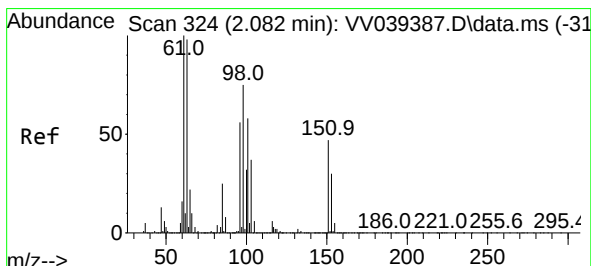
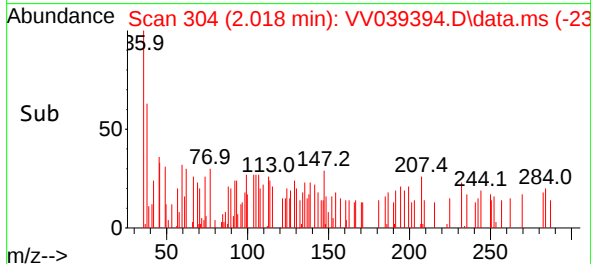
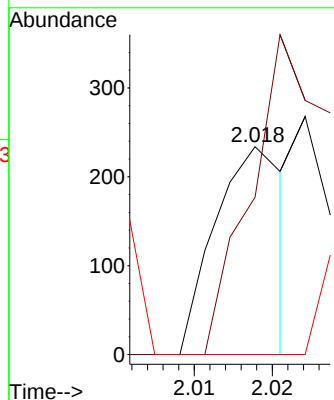
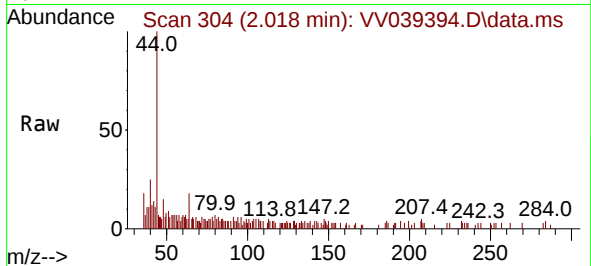




#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.016 ug/L
RT: 2.018 min Scan# 304
Delta R.T. -0.064 min
Lab File: VV039394.D
Acq: 17 Nov 2025 16:03

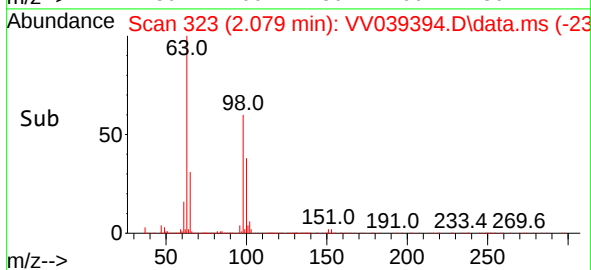
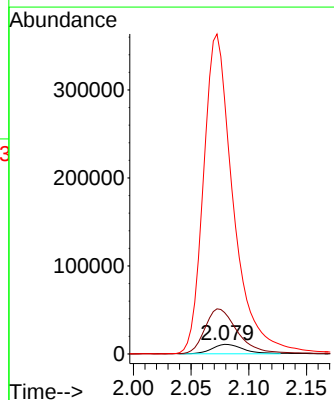
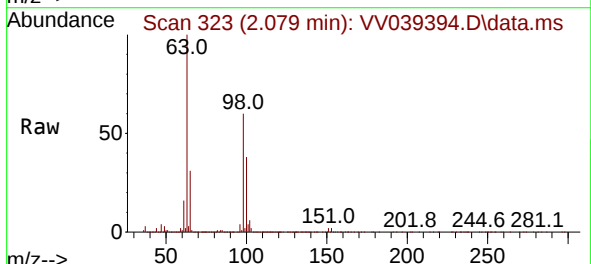
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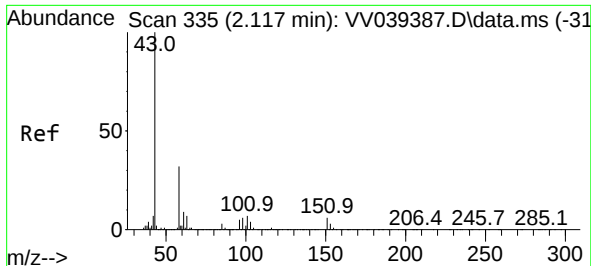
Tgt Ion:	101	Resp:	145
Ion	Ratio	Lower	Upper
101	100		
85	40.0	33.7	50.5
151	70.3	63.6	95.4



#12
1,1-Dichloroethene
Concen: 2.615 ug/L
RT: 2.079 min Scan# 323
Delta R.T. -0.003 min
Lab File: VV039394.D
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Tgt Ion:	96	Resp:	20052
Ion	Ratio	Lower	Upper
96	100		
61	431.5	124.3	230.8#
63	2660.5	121.8	226.2#

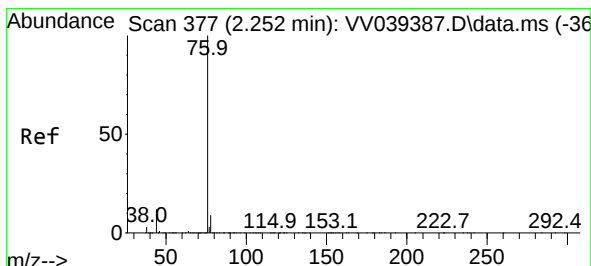
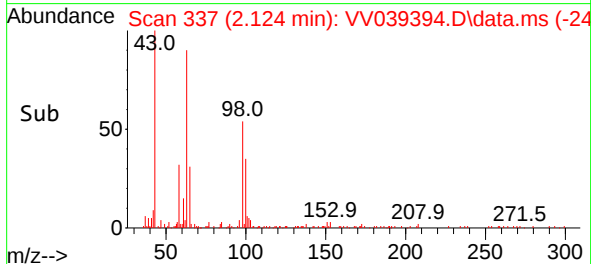
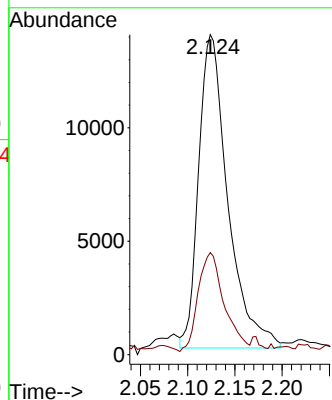
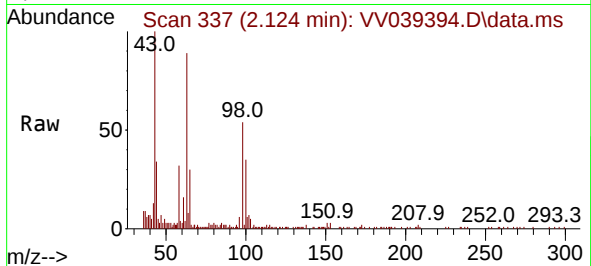




#13
Acetone
Concen: 4.070 ug/L
RT: 2.124 min Scan# 31
Delta R.T. 0.007 min
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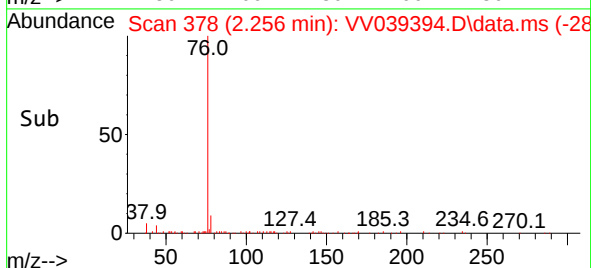
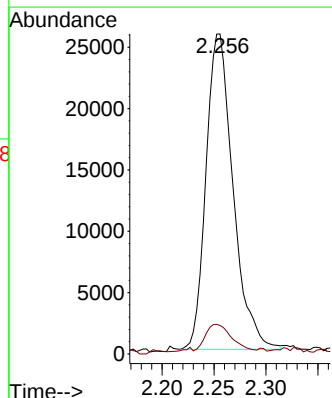
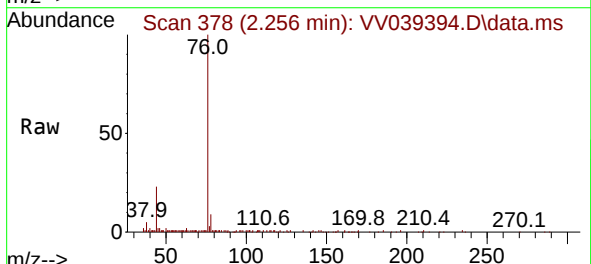
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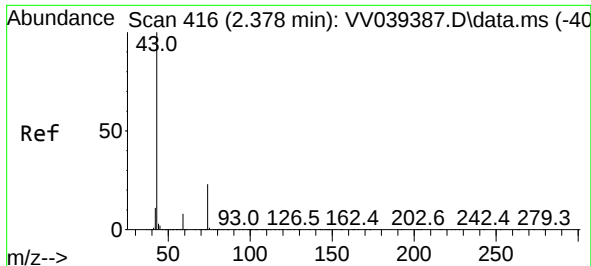
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Ion Ratio Lower Upper
43 100
58 28.3 0.0 63.2



#14
Carbon disulfide
Concen: 2.137 ug/L
RT: 2.256 min Scan# 378
Delta R.T. 0.003 min
Lab File: VV039394.D
Acq: 17 Nov 2025 16:03

Tgt Ion: 76 Resp: 46506
Ion Ratio Lower Upper
76 100
78 8.9 7.4 11.2

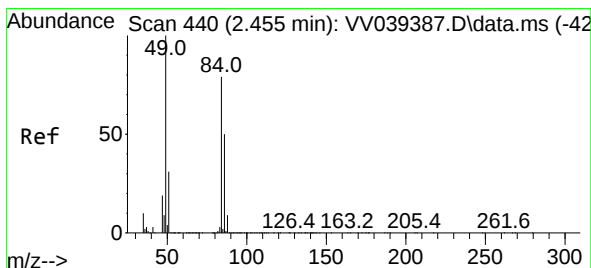
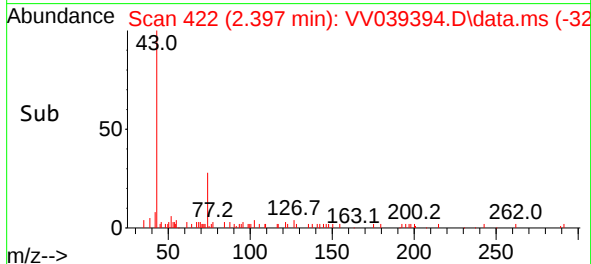
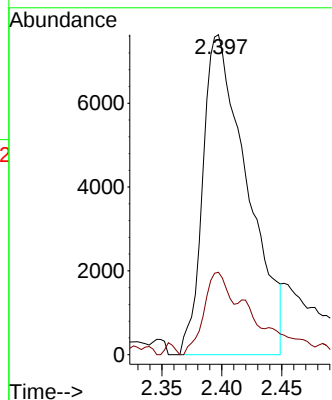
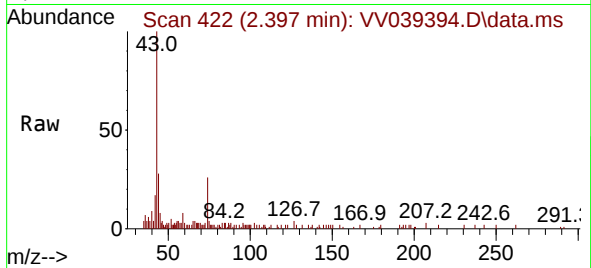




#15
Methyl Acetate
Concen: 2.072 ug/L
RT: 2.397 min Scan# 416
Delta R.T. 0.019 min
Lab File: VV039394.D
Acq: 17 Nov 2025 16:03

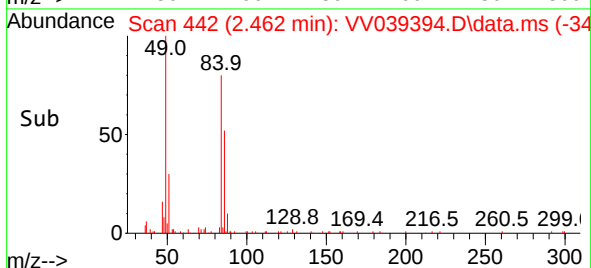
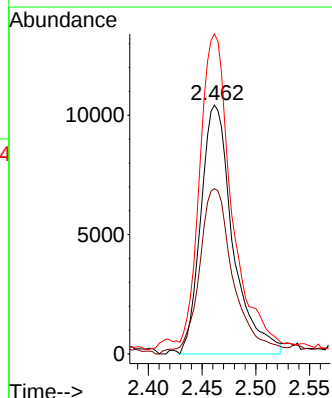
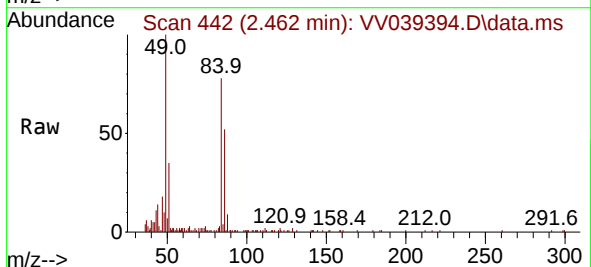
Instrument :
MSVOA_V
ClientSampleId :
MDL-MED-SOIL-QT4-2025-07

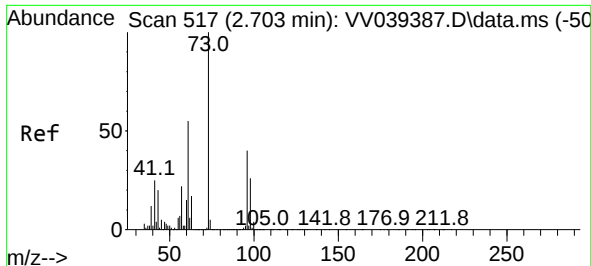
Tgt Ion: 43 Resp: 19612
Ion Ratio Lower Upper
43 100
74 15.1 18.7 28.1#



#16
Methylene chloride
Concen: 2.399 ug/L
RT: 2.462 min Scan# 442
Delta R.T. 0.007 min
Lab File: VV039394.D
Acq: 17 Nov 2025 16:03

Tgt Ion: 84 Resp: 21547
Ion Ratio Lower Upper
84 100
86 66.4 44.4 82.5
49 128.6 88.2 163.8

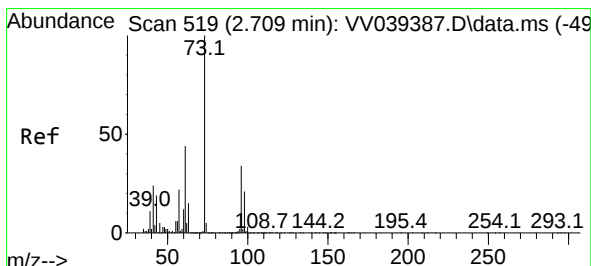
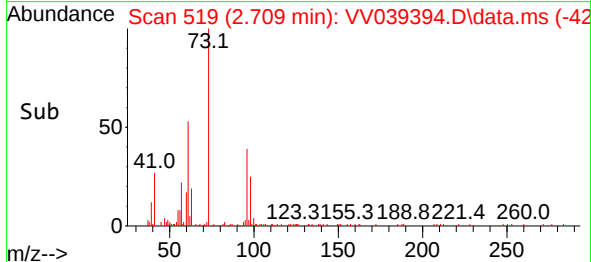
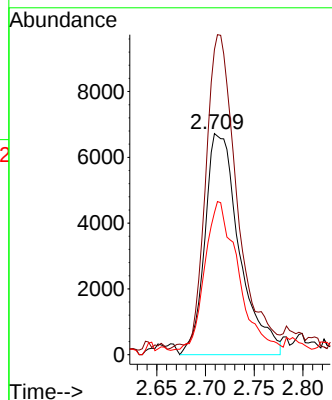
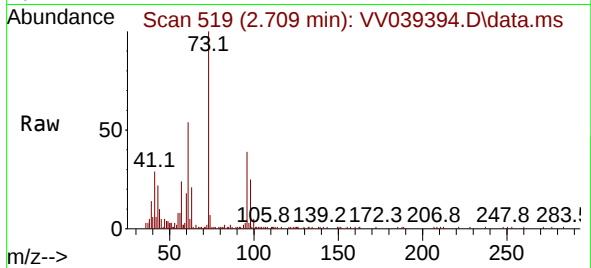




#17
trans-1,2-Dichloroethene
Concen: 2.064 ug/L
RT: 2.709 min Scan# 517
Delta R.T. 0.007 min
Lab File: VV039394.D
Acq: 17 Nov 2025 16:03

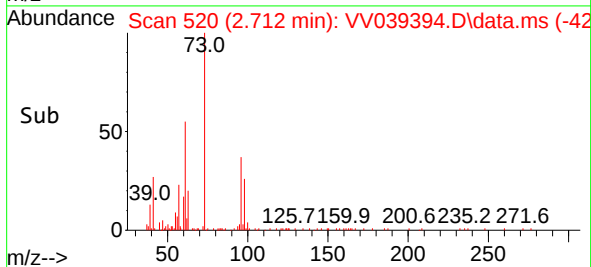
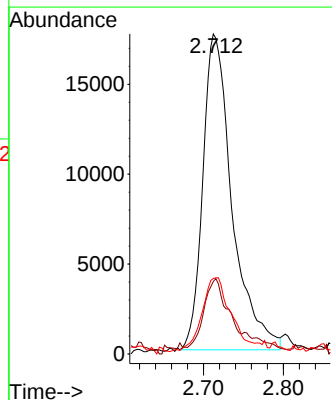
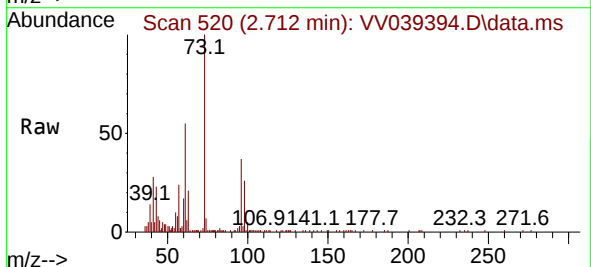
Instrument :
MSVOA_V
ClientSampleId :
MDL-MED-SOIL-QT4-2025-07

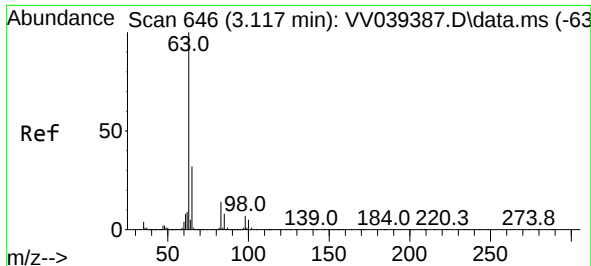
Tgt Ion: 96 Resp: 16505
Ion Ratio Lower Upper
96 100
61 137.9 96.1 178.5
98 67.8 45.0 83.6



#18
Methyl tert-butyl Ether
Concen: 1.835 ug/L
RT: 2.712 min Scan# 520
Delta R.T. 0.003 min
Lab File: VV039394.D
Acq: 17 Nov 2025 16:03

Tgt Ion: 73 Resp: 44783
Ion Ratio Lower Upper
73 100
43 17.3 15.4 23.2
57 22.6 17.6 26.4

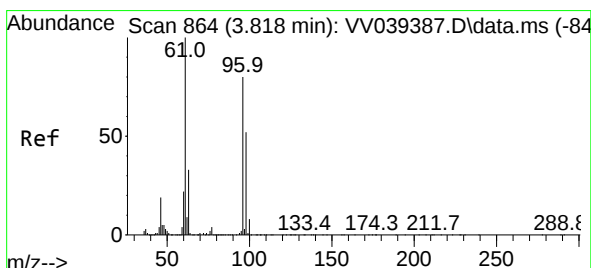
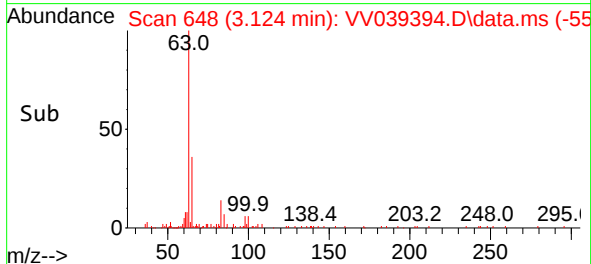
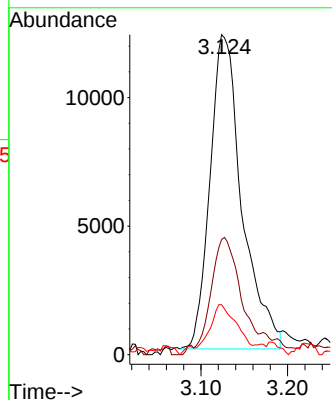
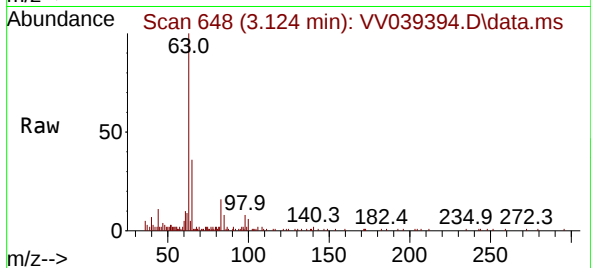




#19
1,1-Dichloroethane
Concen: 1.980 ug/L
RT: 3.124 min Scan# 646
Delta R.T. 0.007 min
Lab File: VV039394.D
Acq: 17 Nov 2025 16:03

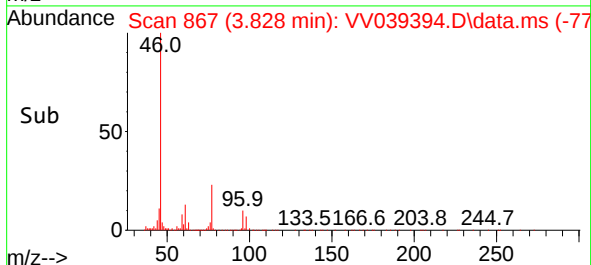
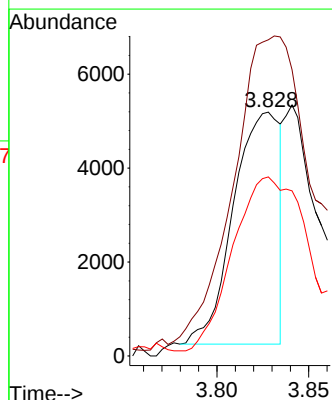
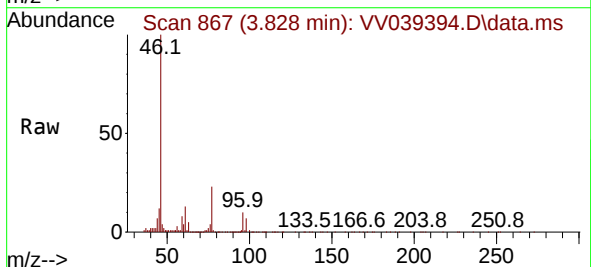
Instrument :
MSVOA_V
ClientSampleId :
MDL-MED-SOIL-QT4-2025-07

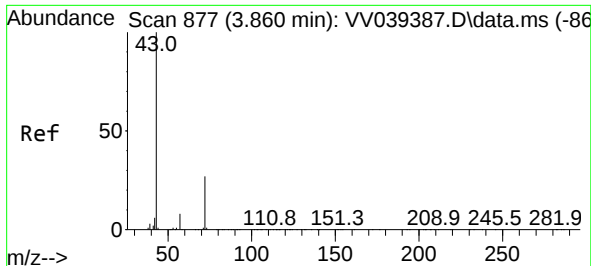
Tgt Ion: 63 Resp: 31375
Ion Ratio Lower Upper
63 100
65 36.0 22.4 41.6
83 15.6 9.6 17.8



#20
cis-1,2-Dichloroethene
Concen: 1.007 ug/L
RT: 3.828 min Scan# 867
Delta R.T. 0.010 min
Lab File: VV039394.D
Acq: 17 Nov 2025 16:03

Tgt Ion: 96 Resp: 8669
Ion Ratio Lower Upper
96 100
61 129.7 87.3 162.1
98 73.4 45.1 83.7

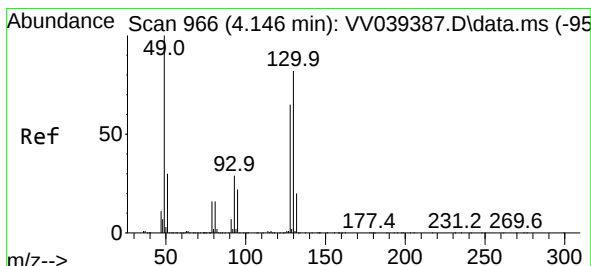
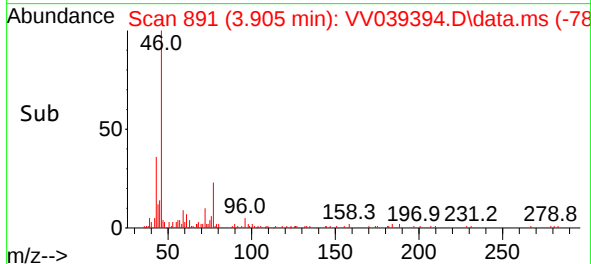
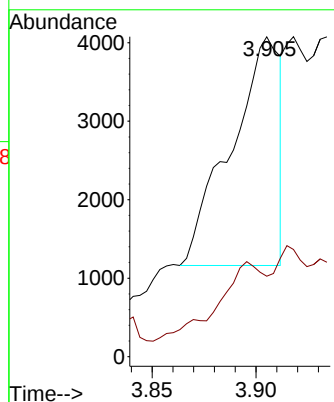
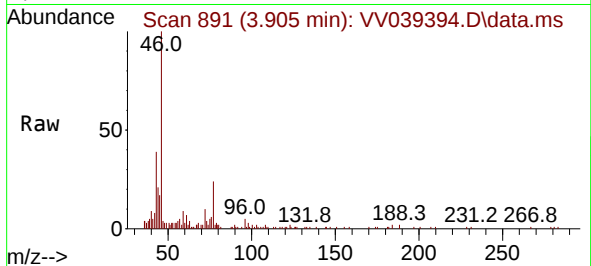




#22
2-Butanone
Concen: 0.659 ug/L
RT: 3.905 min Scan# 891
Delta R.T. 0.045 min
Lab File: VV039394.D
Acq: 17 Nov 2025 16:03

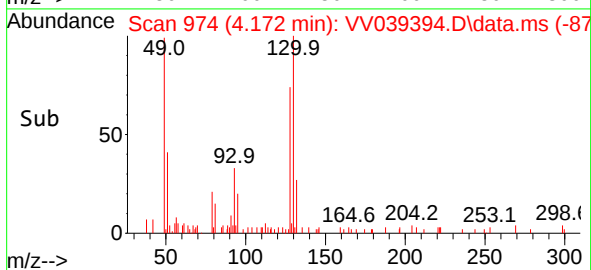
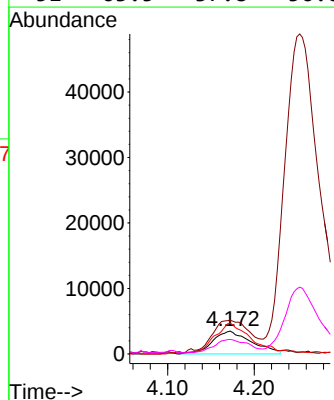
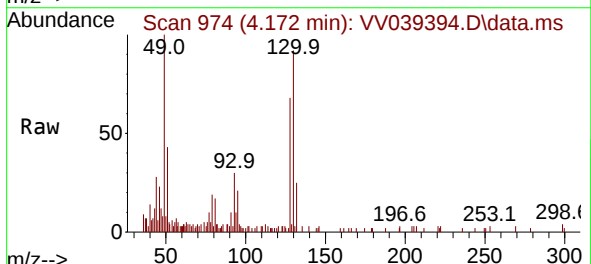
Instrument :
MSVOA_V
ClientSampleId :
MDL-MED-SOIL-QT4-2025-07

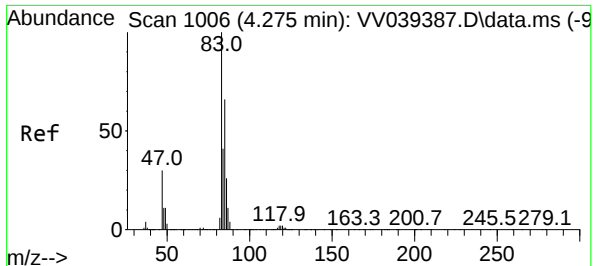
Tgt Ion: 43 Resp: 4779
Ion Ratio Lower Upper
43 100
72 18.2 13.3 39.9



#23
Bromochloromethane
Concen: 2.155 ug/L
RT: 4.172 min Scan# 974
Delta R.T. 0.026 min
Lab File: VV039394.D
Acq: 17 Nov 2025 16:03

Tgt Ion:128 Resp: 10958
Ion Ratio Lower Upper
128 100
49 147.2 108.6 201.6
130 135.5 89.2 165.6
51 63.5 37.8 56.8#

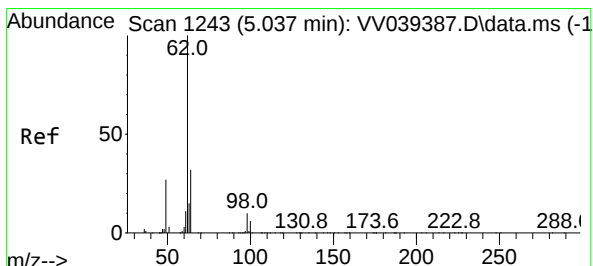
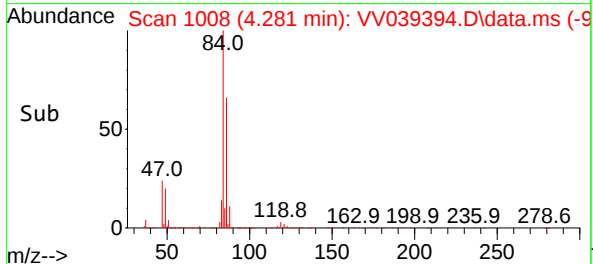
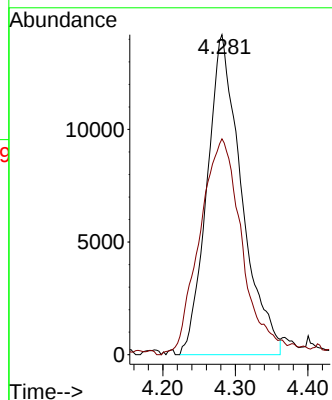
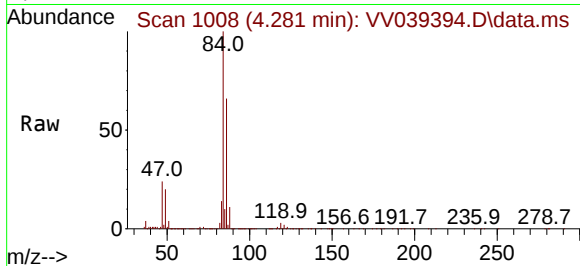




#25
Chloroform
Concen: 2.710 ug/L
RT: 4.281 min Scan# 1006
Delta R.T. 0.007 min
Lab File: VV039394.D
Acq: 17 Nov 2025 16:03

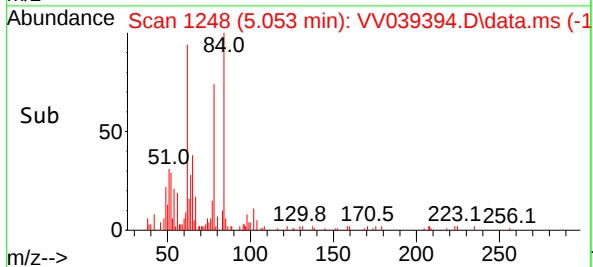
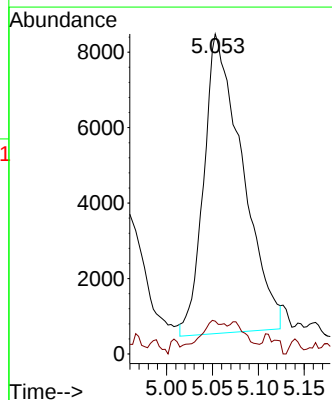
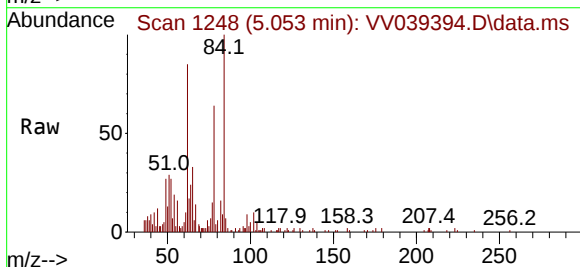
Instrument : MSVOA_V
ClientSampleId : MDL-MED-SOIL-QT4-2025-07

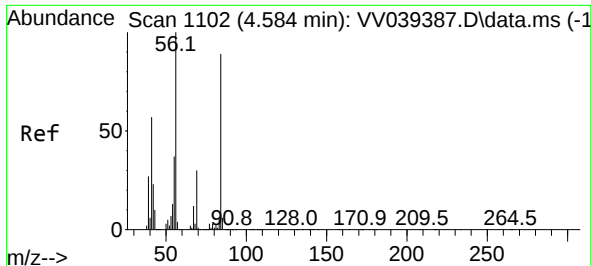
Tgt Ion: 83 Resp: 46905
Ion Ratio Lower Upper
83 100
85 67.5 46.0 85.4



#27
1,2-Dichloroethane
Concen: 1.824 ug/L
RT: 5.053 min Scan# 1248
Delta R.T. 0.016 min
Lab File: VV039394.D
Acq: 17 Nov 2025 16:03

Tgt Ion: 62 Resp: 23268
Ion Ratio Lower Upper
62 100
98 10.2 7.7 11.5





#29

Cyclohexane

Concen: 1.587 ug/L

RT: 4.587 min Scan# 1102

Delta R.T. 0.003 min

Lab File: VV039394.D

Acq: 17 Nov 2025 16:03

Instrument :

MSVOA_V

ClientSampleId :

MDL-MED-SOIL-QT4-2025-07

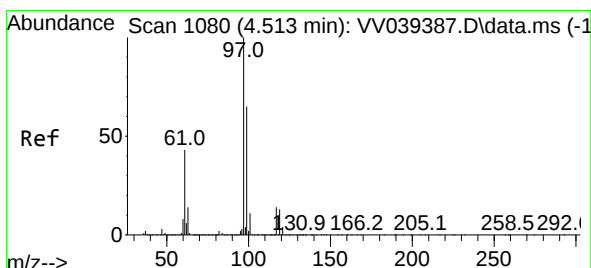
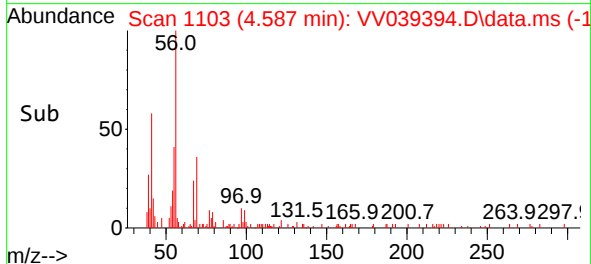
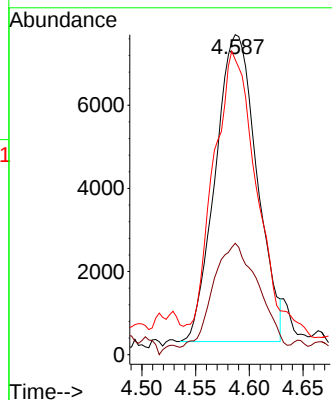
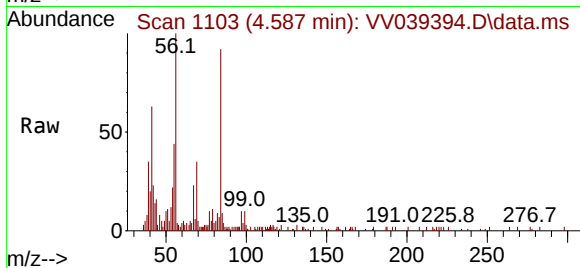
Tgt Ion: 56 Resp: 19842

Ion Ratio Lower Upper

56 100

69 37.7 24.1 36.1#

84 85.6 70.7 106.1



#30

1,1,1-Trichloroethane

Concen: 1.781 ug/L

RT: 4.519 min Scan# 1082

Delta R.T. 0.007 min

Lab File: VV039394.D

Acq: 17 Nov 2025 16:03

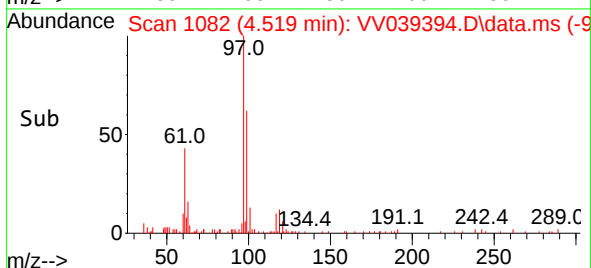
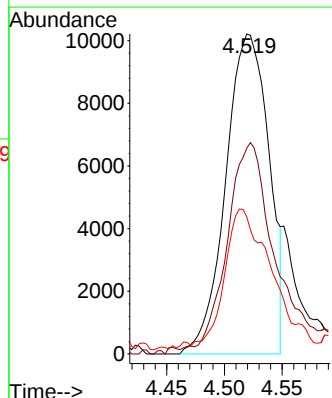
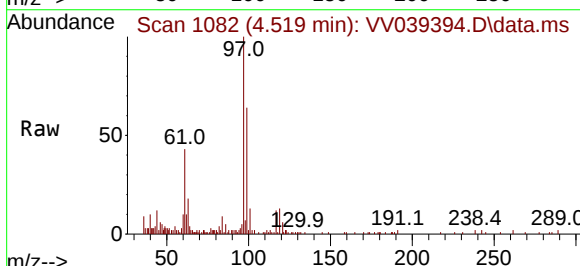
Tgt Ion: 97 Resp: 26605

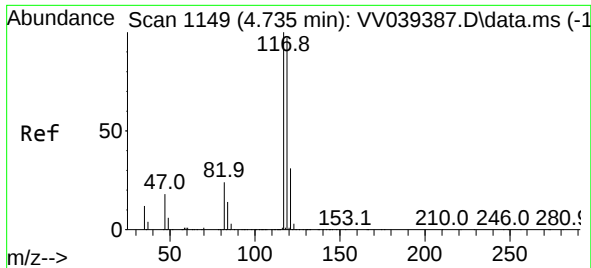
Ion Ratio Lower Upper

97 100

99 66.7 51.6 77.4

61 43.2 34.5 51.7

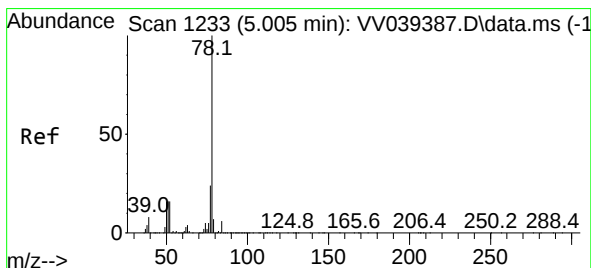
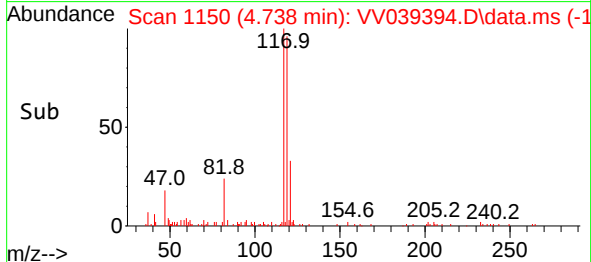
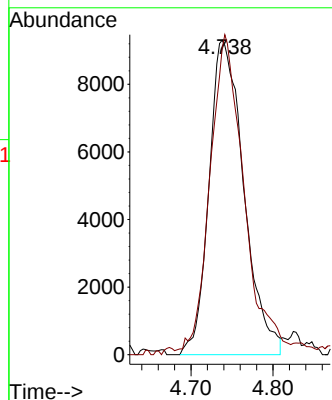
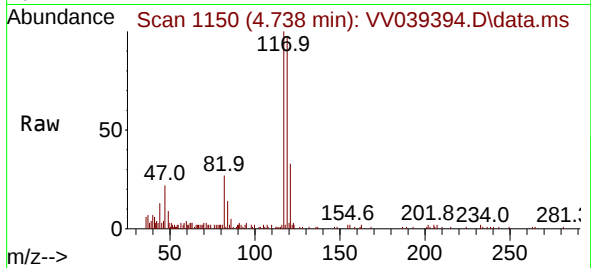




#31
Carbon tetrachloride
Concen: 1.990 ug/L
RT: 4.738 min Scan# 1149
Delta R.T. 0.003 min
Lab File: VV039394.D
Acq: 17 Nov 2025 16:03

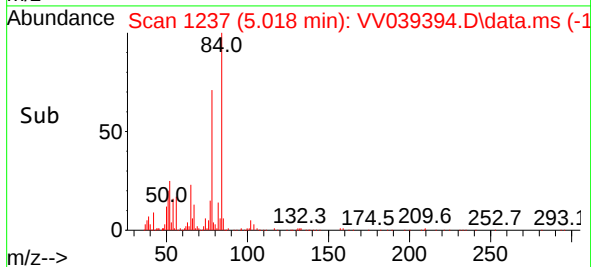
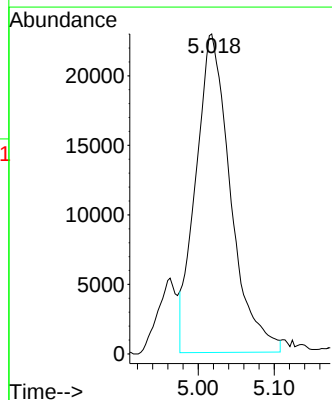
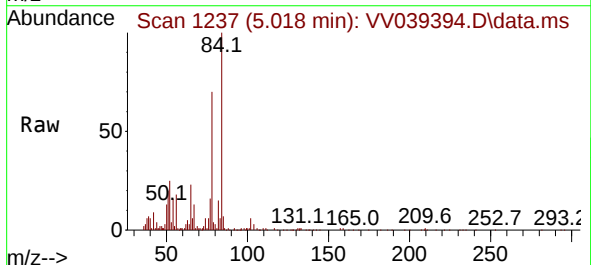
Instrument : MSVOA_V
ClientSampleId : MDL-MED-SOIL-QT4-2025-07

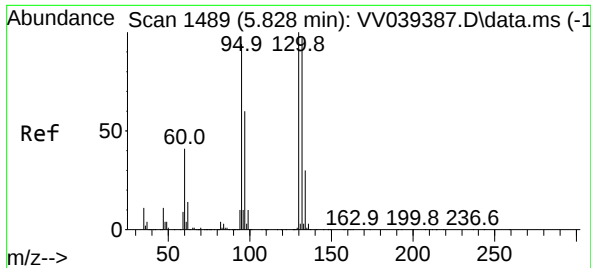
Tgt Ion:117 Resp: 27375
Ion Ratio Lower Upper
117 100
119 92.1 76.7 115.1



#33
Benzene
Concen: 2.201 ug/L
RT: 5.018 min Scan# 1237
Delta R.T. 0.013 min
Lab File: VV039394.D
Acq: 17 Nov 2025 16:03

Tgt Ion: 78 Resp: 72587





#34

Trichloroethene

Concen: 2.026 ug/L

RT: 5.847 min Scan# 1489

Delta R.T. 0.019 min

Lab File: VV039394.D

Acq: 17 Nov 2025 16:03

Instrument :

MSVOA_V

ClientSampleId :

MDL-MED-SOIL-QT4-2025-07

Tgt Ion: 95 Resp: 18055

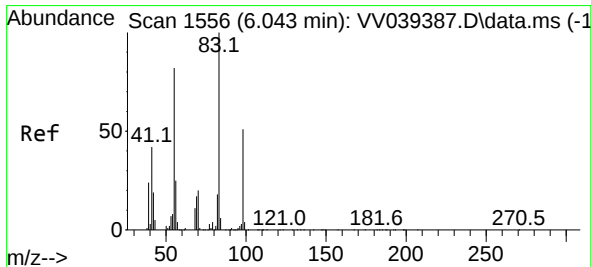
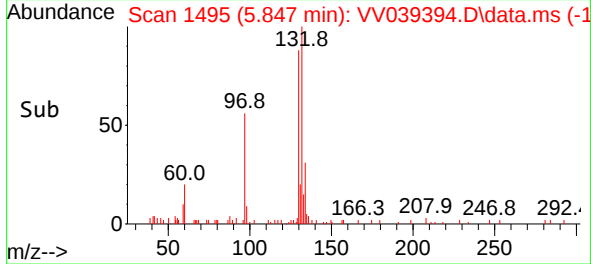
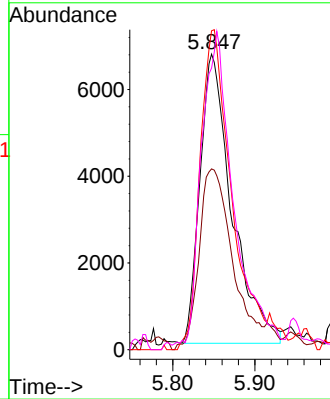
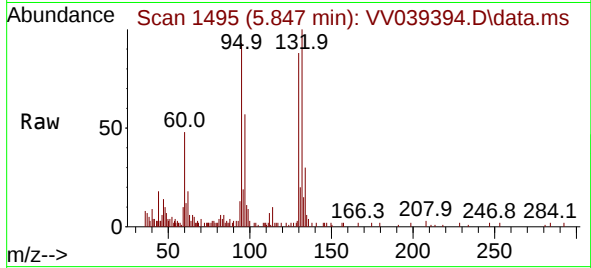
Ion Ratio Lower Upper

95 100

97 61.2 44.4 82.5

132 107.9 71.9 133.5

130 95.3 74.4 138.2



#35

Methylcyclohexane

Concen: 1.831 ug/L

RT: 6.043 min Scan# 1556

Delta R.T. 0.000 min

Lab File: VV039394.D

Acq: 17 Nov 2025 16:03

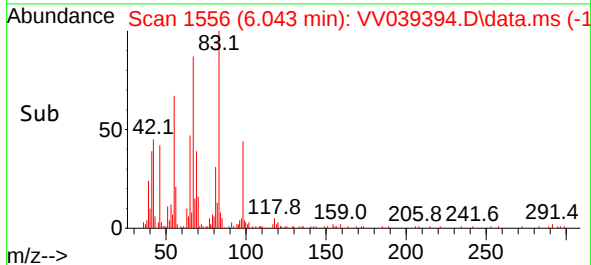
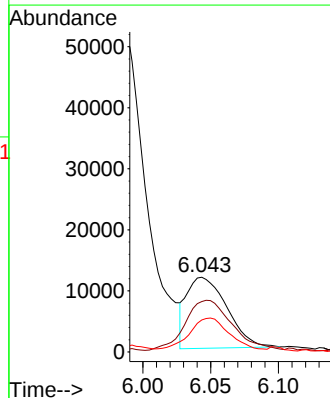
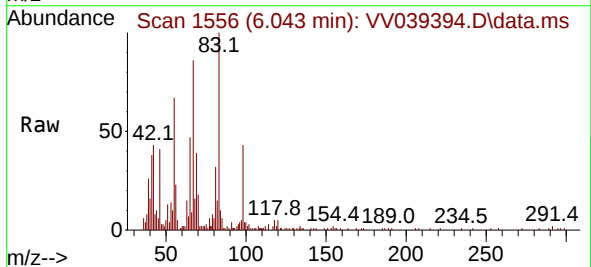
Tgt Ion: 83 Resp: 23976

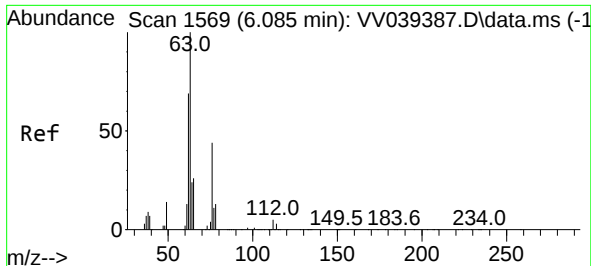
Ion Ratio Lower Upper

83 100

55 83.8 62.5 93.7

98 49.0 39.2 58.8

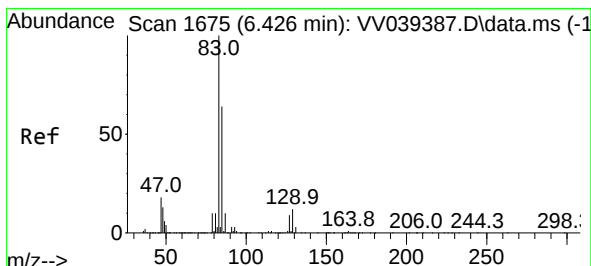
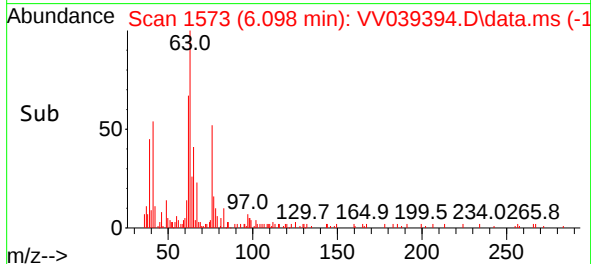
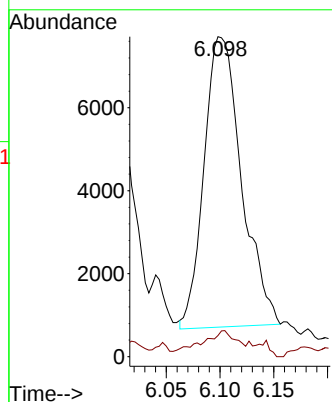
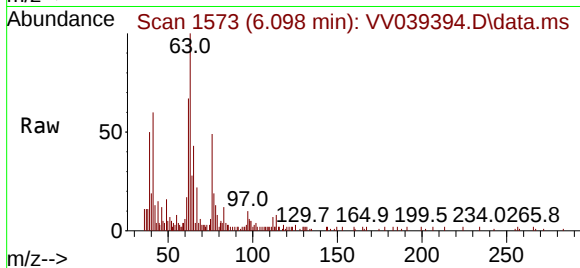




#37
1,2-Dichloropropane
Concen: 1.825 ug/L
RT: 6.098 min Scan# 11
Delta R.T. 0.013 min
Lab File: VV039394.D
Acq: 17 Nov 2025 16:03

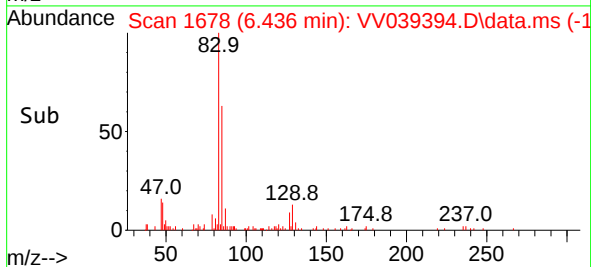
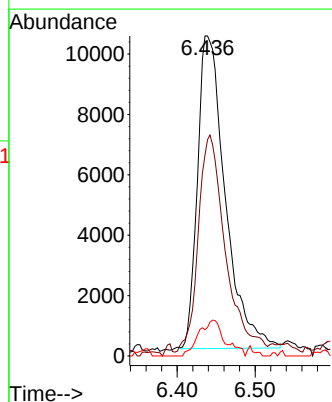
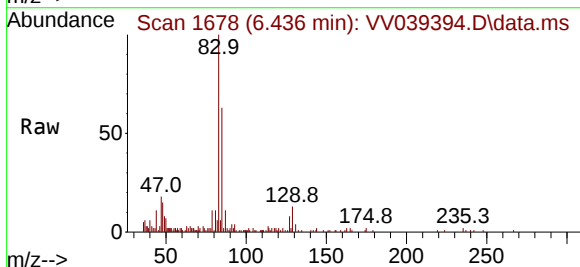
Instrument :
MSVOA_V
ClientSampleId :
MDL-MED-SOIL-QT4-2025-07

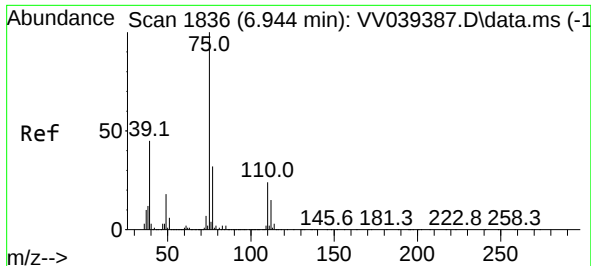
Tgt Ion: 63 Resp: 17022
Ion Ratio Lower Upper
63 100
112 2.7 3.7 5.5#



#38
Bromodichloromethane
Concen: 1.976 ug/L
RT: 6.436 min Scan# 1678
Delta R.T. 0.010 min
Lab File: VV039394.D
Acq: 17 Nov 2025 16:03

Tgt Ion: 83 Resp: 25624
Ion Ratio Lower Upper
83 100
85 62.9 44.9 83.5
127 8.2 7.4 11.0





#39

cis-1,3-Dichloropropene

Concen: 1.841 ug/L

RT: 6.960 min Scan# 11

Delta R.T. 0.016 min

Lab File: VV039394.D

Acq: 17 Nov 2025 16:03

Instrument :

MSVOA_V

ClientSampleId :

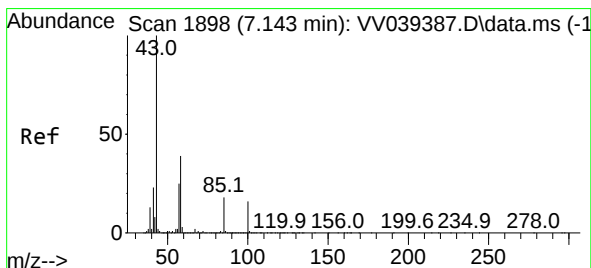
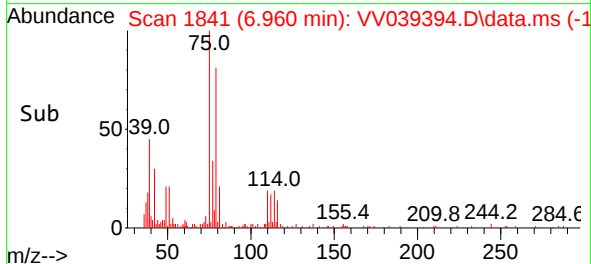
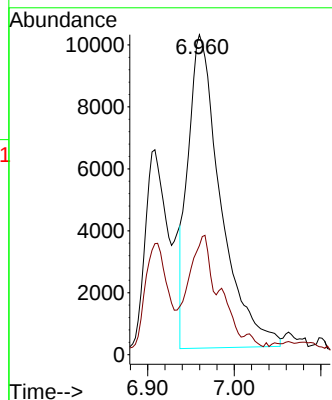
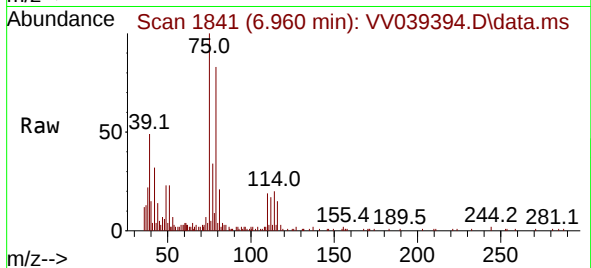
MDL-MED-SOIL-QT4-2025-07

Tgt Ion: 75 Resp: 26444

Ion Ratio Lower Upper

75 100

77 34.1 22.3 41.5



#40

4-Methyl-2-pentanone

Concen: 3.136 ug/L

RT: 7.159 min Scan# 1903

Delta R.T. 0.016 min

Lab File: VV039394.D

Acq: 17 Nov 2025 16:03

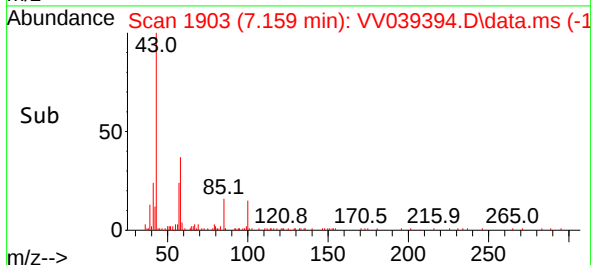
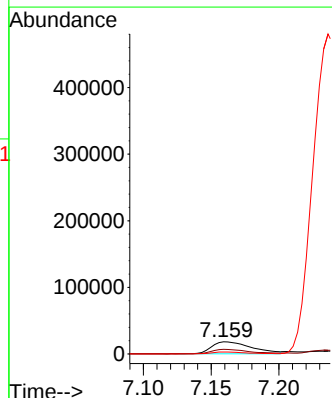
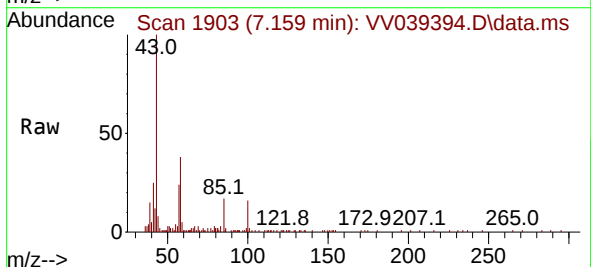
Tgt Ion: 43 Resp: 36770

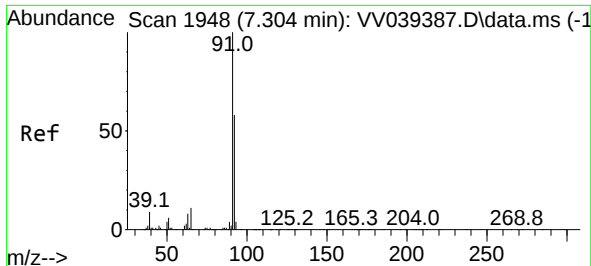
Ion Ratio Lower Upper

43 100

58 34.7 30.8 46.2

100 14.9 12.5 18.7

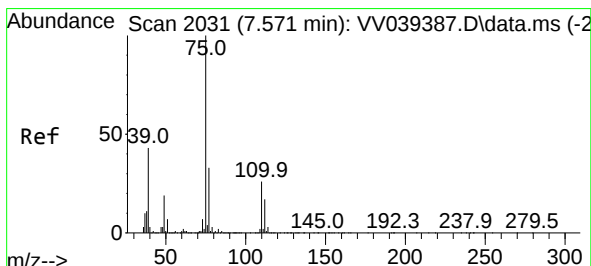
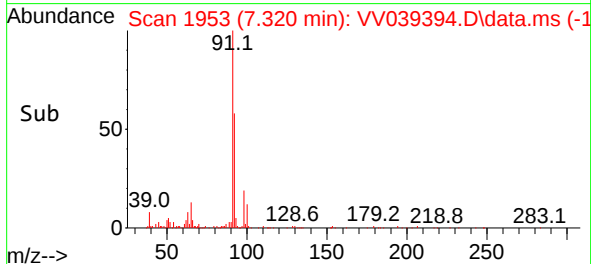
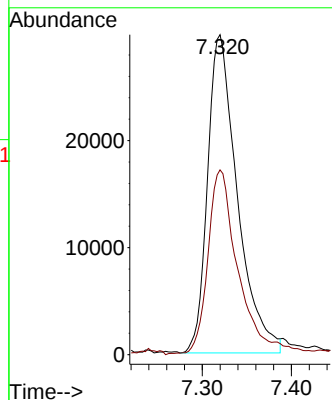
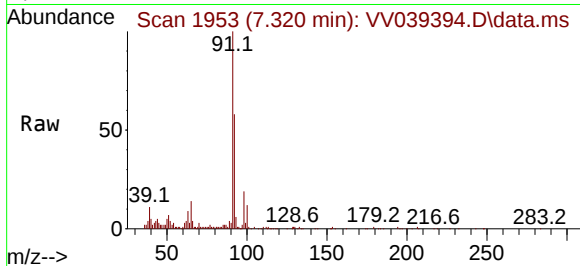




#42
Toluene
Concen: 1.975 ug/L
RT: 7.320 min Scan# 1948
Delta R.T. 0.016 min
Lab File: VV039394.D
Acq: 17 Nov 2025 16:03

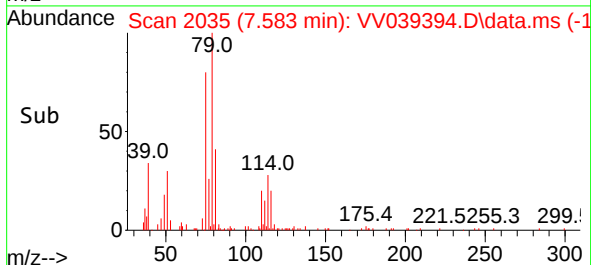
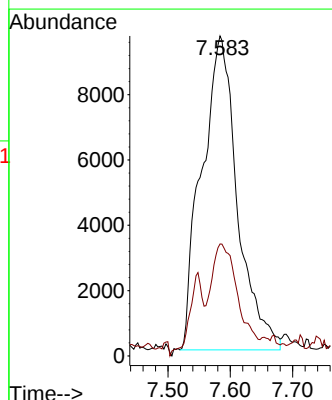
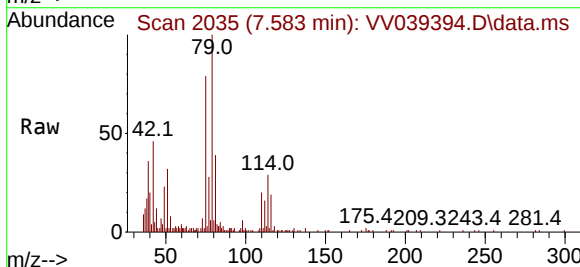
Instrument : MSVOA_V
ClientSampleId : MDL-MED-SOIL-QT4-2025-07

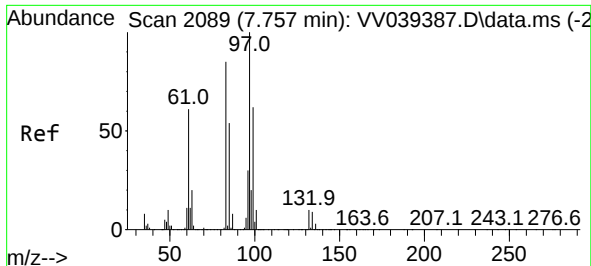
Tgt Ion: 91 Resp: 69049
Ion Ratio Lower Upper
91 100
92 57.8 40.4 75.0



#44
trans-1,3-Dichloropropene
Concen: 2.761 ug/L
RT: 7.583 min Scan# 2035
Delta R.T. 0.013 min
Lab File: VV039394.D
Acq: 17 Nov 2025 16:03

Tgt Ion: 75 Resp: 38230
Ion Ratio Lower Upper
75 100
77 35.0 23.0 42.6

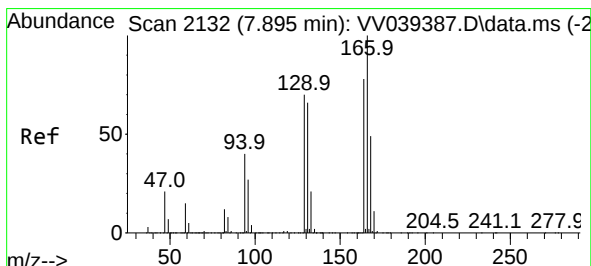
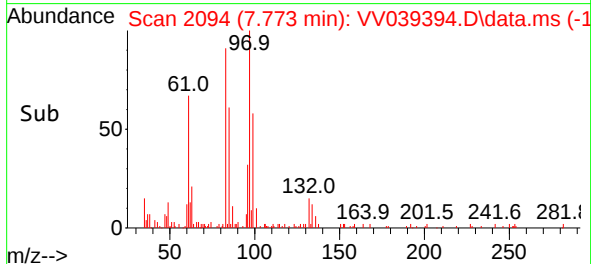
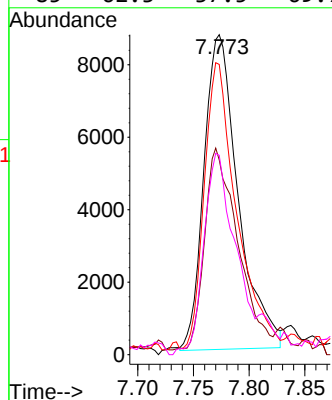
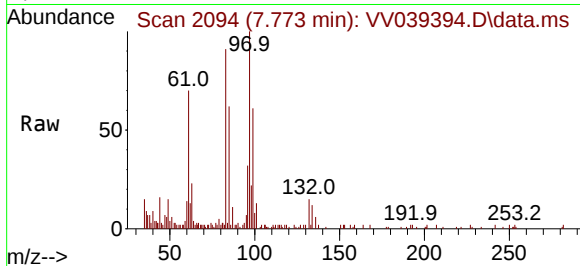




#45
1,1,2-Trichloroethane
Concen: 1.915 ug/L
RT: 7.773 min Scan# 2089
Delta R.T. 0.016 min
Lab File: VV039394.D
Acq: 17 Nov 2025 16:03

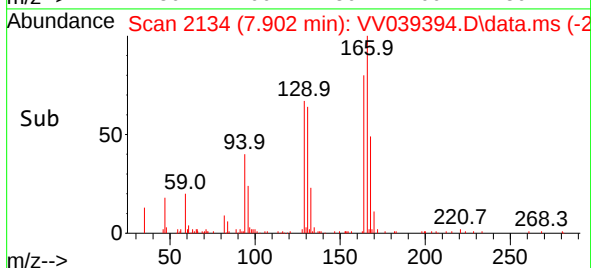
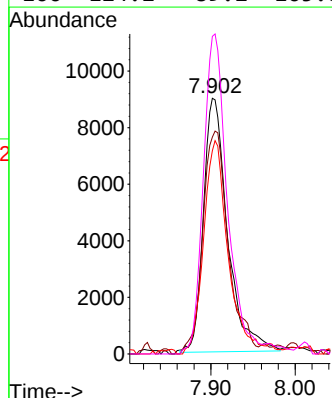
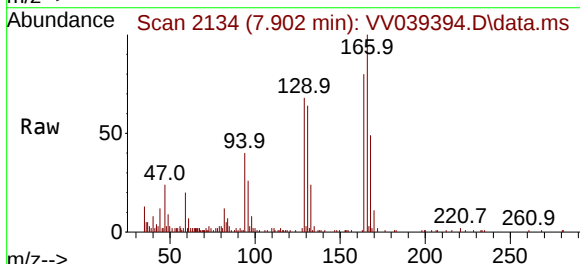
Instrument : MSVOA_V
ClientSampleId : MDL-MED-SOIL-QT4-2025-07

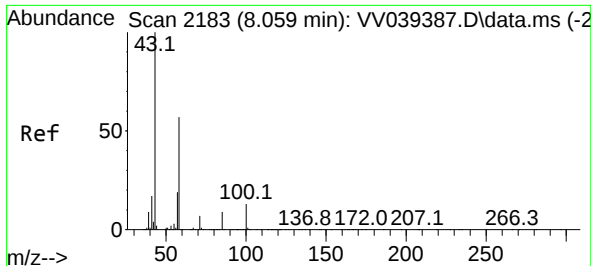
Tgt Ion:	97	Resp:	18574
Ion	Ratio	Lower	Upper
97	100		
99	60.9	43.7	81.1
83	90.7	59.1	109.9
85	62.3	37.5	69.7



#46
Tetrachloroethene
Concen: 2.193 ug/L
RT: 7.902 min Scan# 2134
Delta R.T. 0.007 min
Lab File: VV039394.D
Acq: 17 Nov 2025 16:03

Tgt Ion:	164	Resp:	17951
Ion	Ratio	Lower	Upper
164	100		
129	84.8	62.0	115.2
131	79.5	59.1	109.7
166	124.2	89.2	165.8

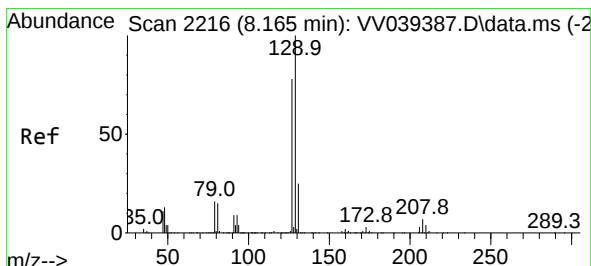
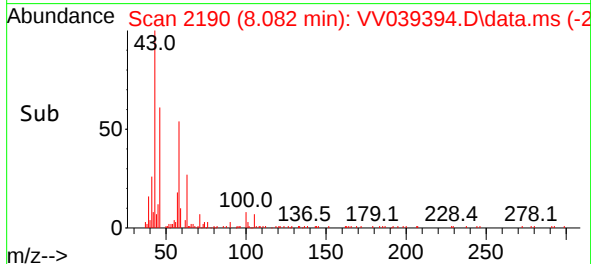
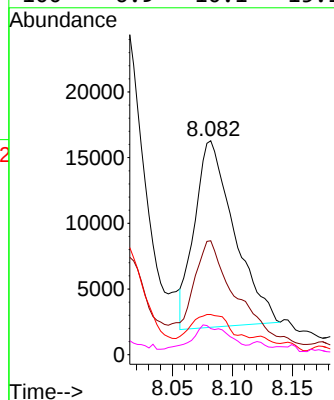
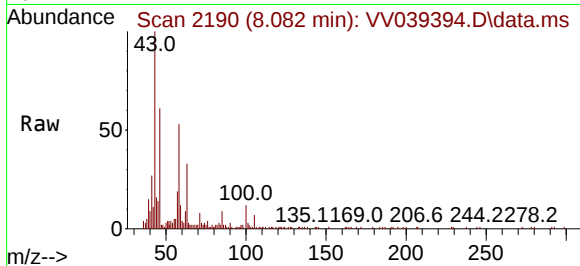




#48
2-Hexanone
Concen: 3.340 ug/L
RT: 8.082 min Scan# 2183
Delta R.T. 0.023 min
Lab File: VV039394.D
Acq: 17 Nov 2025 16:03

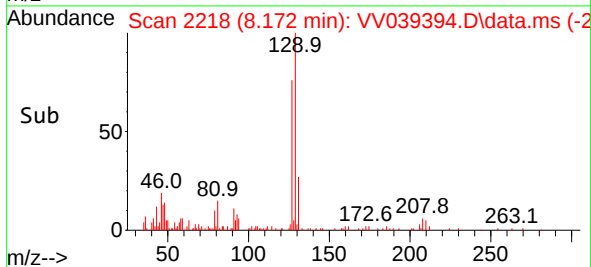
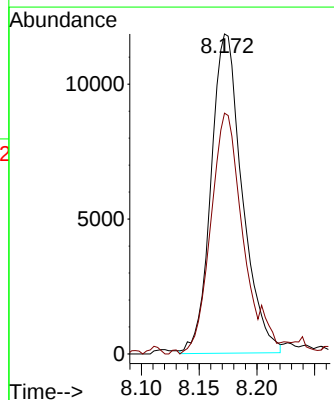
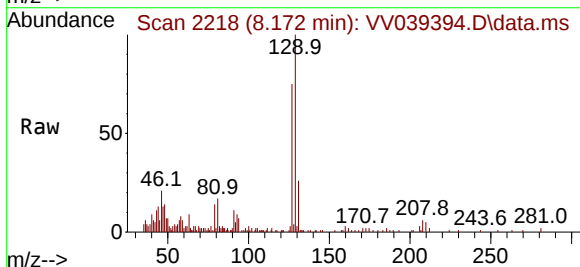
Instrument : MSVOA_V
ClientSampleId : MDL-MED-SOIL-QT4-2025-07

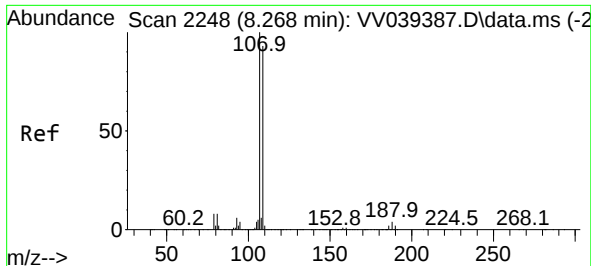
Tgt Ion: 43	Resp: 32723
Ion Ratio	Lower Upper
43 100	
58 52.0	45.0 67.4
57 11.1	15.0 22.6#
100 6.9	10.1 15.1#



#49
Dibromochloromethane
Concen: 2.008 ug/L
RT: 8.172 min Scan# 2218
Delta R.T. 0.007 min
Lab File: VV039394.D
Acq: 17 Nov 2025 16:03

Tgt Ion:129	Resp:	22256	
Ion	Ratio	Lower	Upper
129	100		
127	75.2	54.8	101.8





#50

1,2-Dibromoethane

Concen: 2.106 ug/L

RT: 8.284 min Scan# 21

Delta R.T. 0.016 min

Lab File: VV039394.D

Acq: 17 Nov 2025 16:03

Instrument :

MSVOA_V

ClientSampleId :

MDL-MED-SOIL-QT4-2025-07

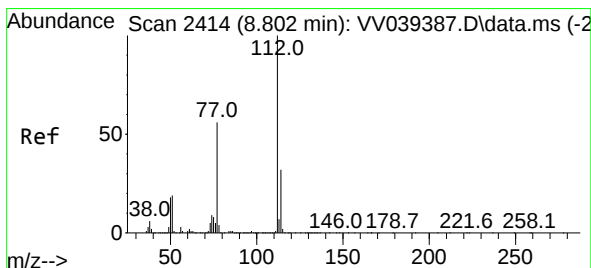
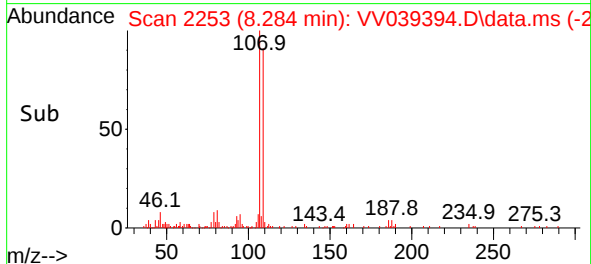
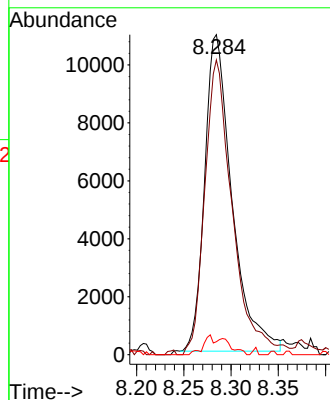
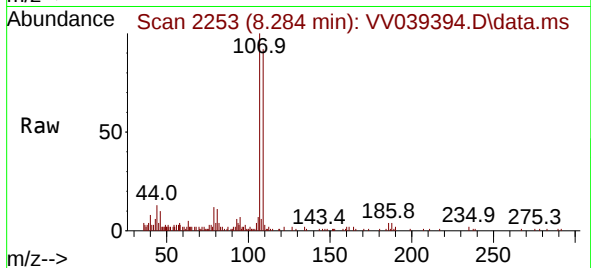
Tgt Ion:107 Resp: 22008

Ion Ratio Lower Upper

107 100

109 92.1 65.0 120.8

188 4.1 3.2 4.8



#51

Chlorobenzene

Concen: 2.084 ug/L

RT: 8.809 min Scan# 2416

Delta R.T. 0.007 min

Lab File: VV039394.D

Acq: 17 Nov 2025 16:03

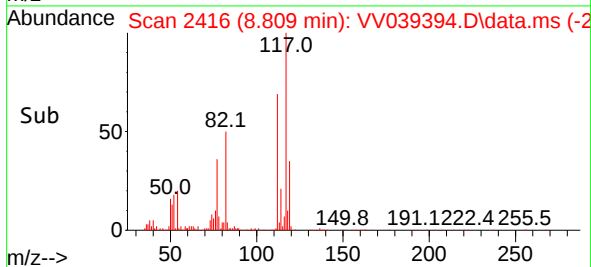
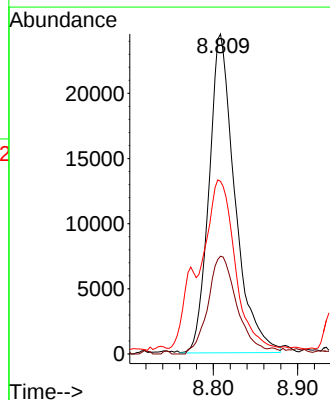
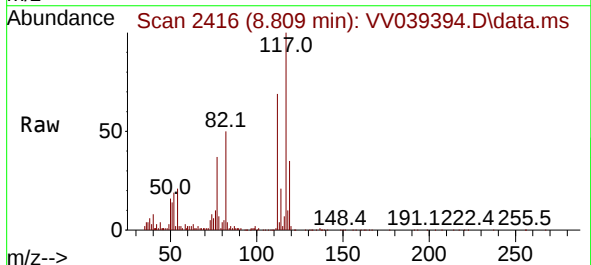
Tgt Ion:112 Resp: 52211

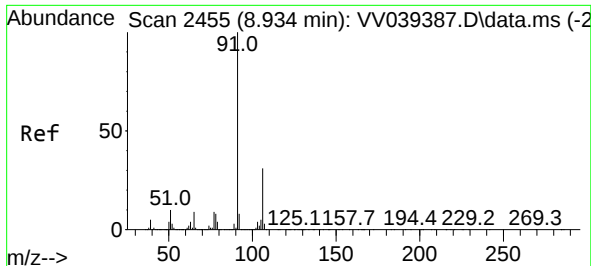
Ion Ratio Lower Upper

112 100

114 30.5 22.4 41.6

77 54.0 45.1 67.7

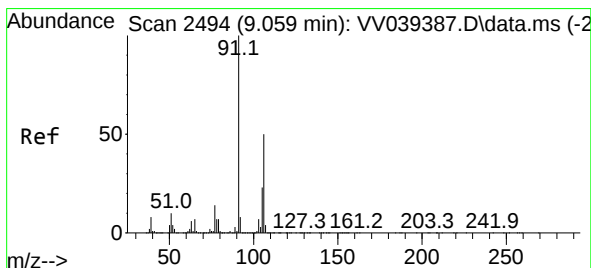
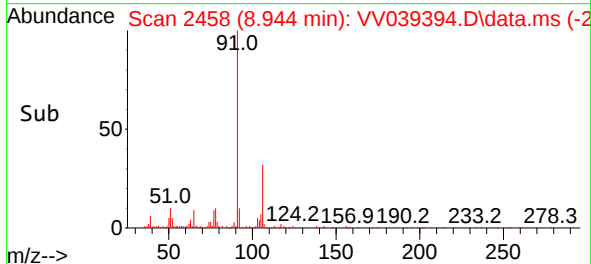
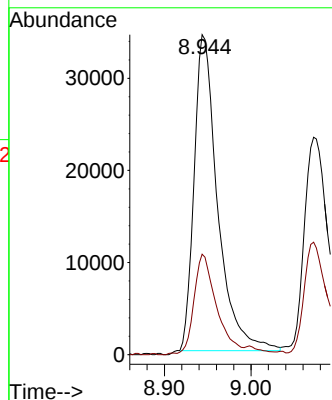
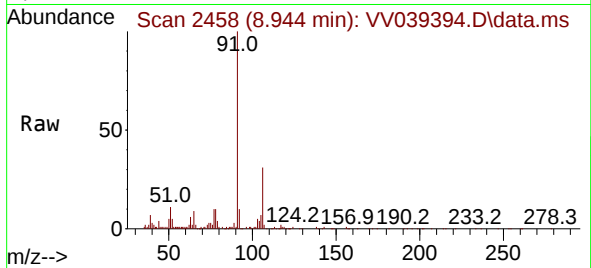




#52
Ethylbenzene
Concen: 1.703 ug/L
RT: 8.944 min Scan# 2455
Delta R.T. 0.010 min
Lab File: VV039394.D
Acq: 17 Nov 2025 16:03

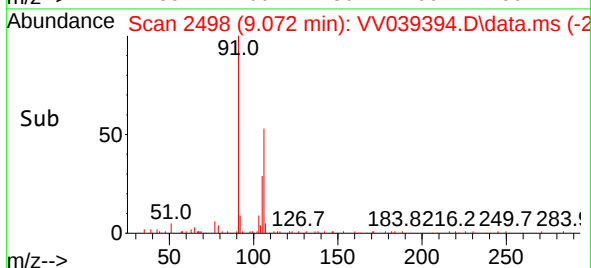
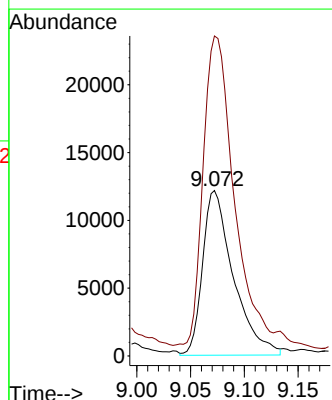
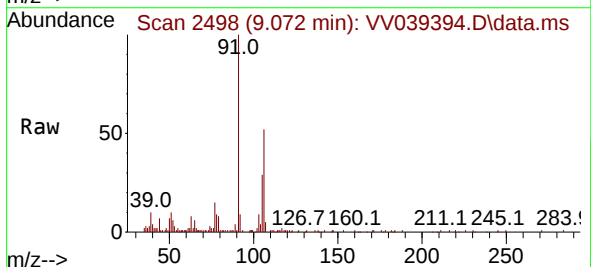
Instrument :
MSVOA_V
ClientSampleId :
MDL-MED-SOIL-QT4-2025-07

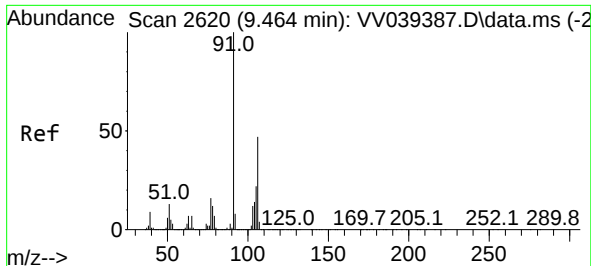
Tgt Ion: 91 Resp: 64719
Ion Ratio Lower Upper
91 100
106 31.4 21.8 40.4



#53
m,p-Xylene
Concen: 1.665 ug/L
RT: 9.072 min Scan# 2498
Delta R.T. 0.013 min
Lab File: VV039394.D
Acq: 17 Nov 2025 16:03

Tgt Ion: 106 Resp: 24218
Ion Ratio Lower Upper
106 100
91 193.3 141.1 262.1

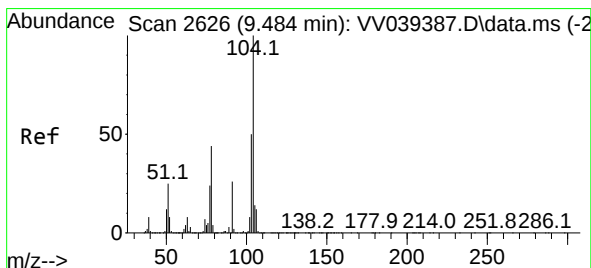
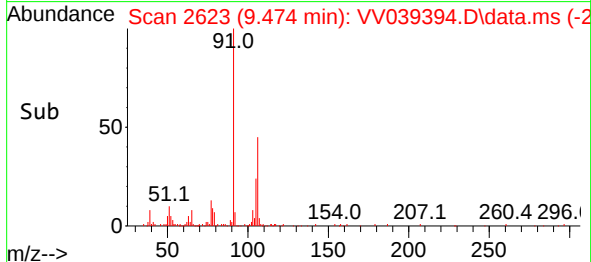
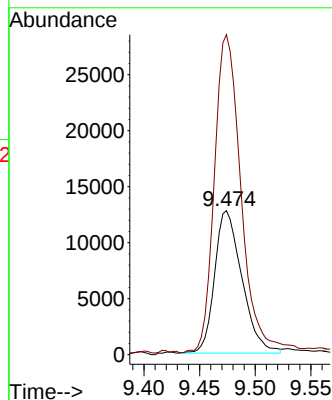
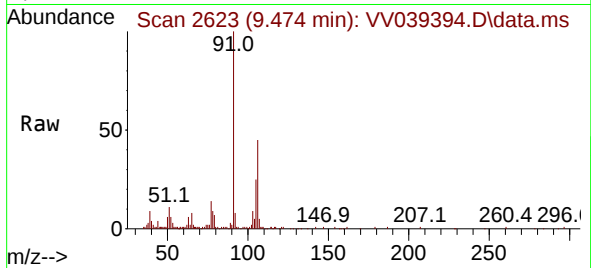




#54
o-Xylene
Concen: 1.561 ug/L
RT: 9.474 min Scan# 2623
Delta R.T. 0.010 min
Lab File: VV039394.D
Acq: 17 Nov 2025 16:03

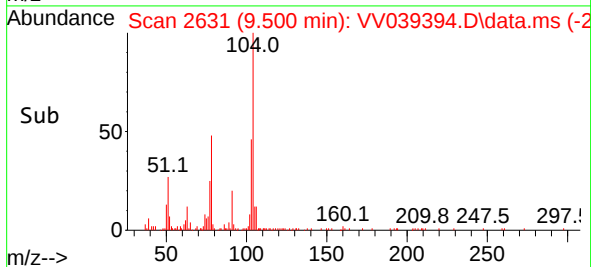
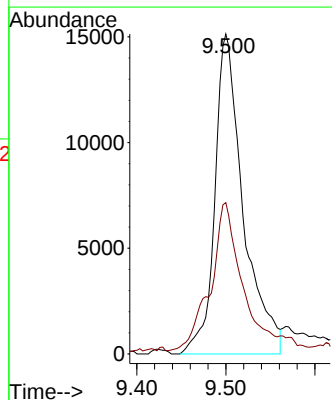
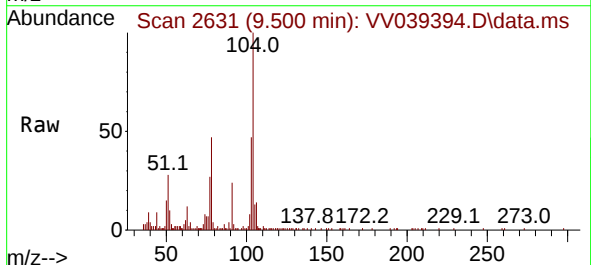
Instrument :
MSVOA_V
ClientSampleId :
MDL-MED-SOIL-QT4-2025-07

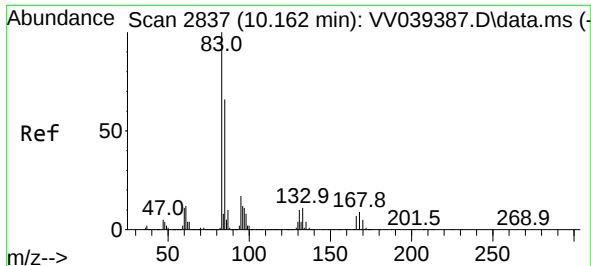
Tgt Ion:106 Resp: 21688
Ion Ratio Lower Upper
106 100
91 222.3 149.0 276.6



#55
Styrene
Concen: 1.371 ug/L
RT: 9.500 min Scan# 2631
Delta R.T. 0.016 min
Lab File: VV039394.D
Acq: 17 Nov 2025 16:03

Tgt Ion:104 Resp: 33514
Ion Ratio Lower Upper
104 100
78 47.3 30.5 56.7





#57

1,1,2,2-Tetrachloroethane

Concen: 2.225 ug/L

RT: 10.169 min Scan# 21

Delta R.T. 0.007 min

Lab File: VV039394.D

Acq: 17 Nov 2025 16:03

Instrument :

MSVOA_V

ClientSampleId :

MDL-MED-SOIL-QT4-2025-07

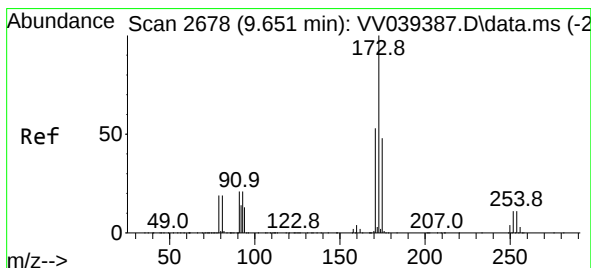
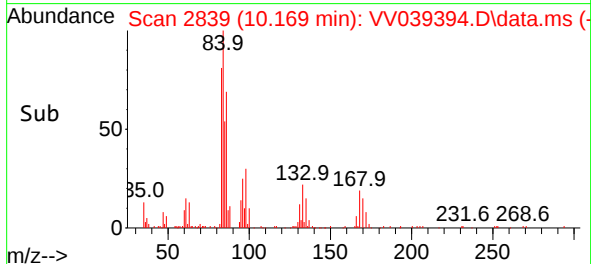
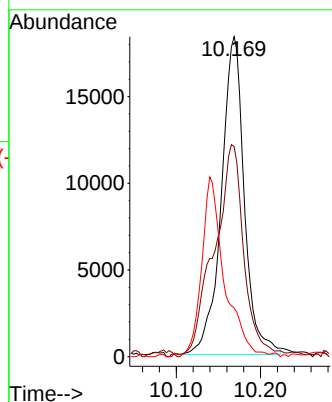
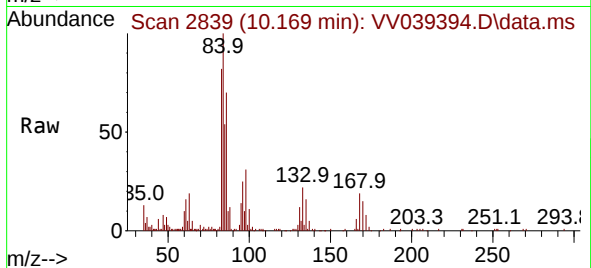
Tgt Ion: 83 Resp: 34686

Ion Ratio Lower Upper

83 100

85 65.7 46.1 85.5

131 15.2 8.3 12.5#



#59

Bromoform

Concen: 2.338 ug/L

RT: 9.661 min Scan# 2681

Delta R.T. 0.010 min

Lab File: VV039394.D

Acq: 17 Nov 2025 16:03

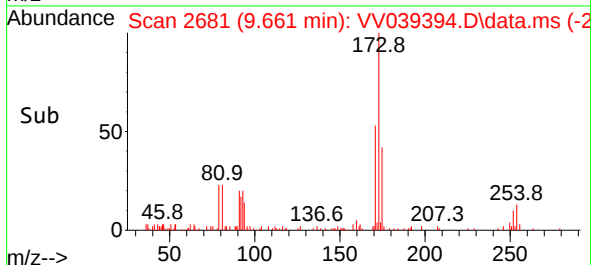
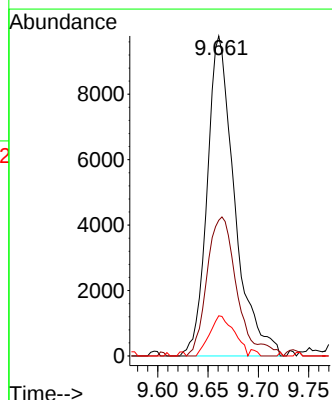
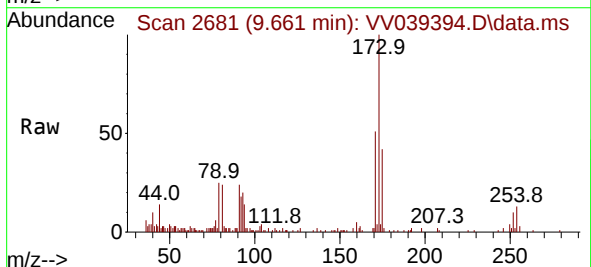
Tgt Ion: 173 Resp: 18553

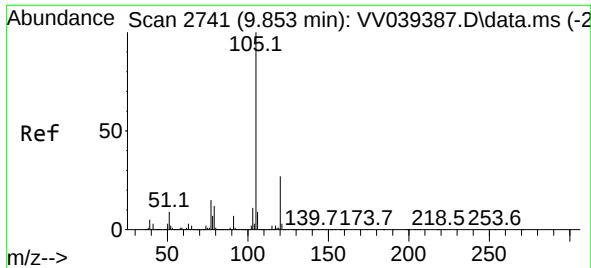
Ion Ratio Lower Upper

173 100

175 45.3 38.5 57.7

254 11.2 8.4 12.6

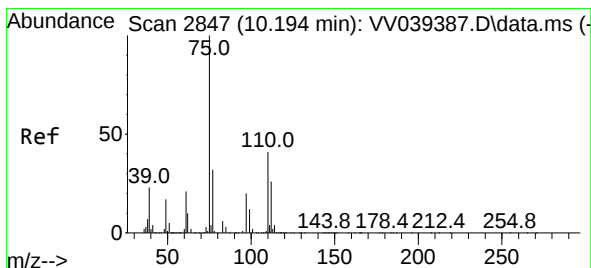
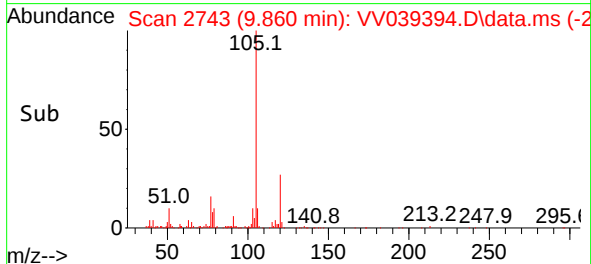
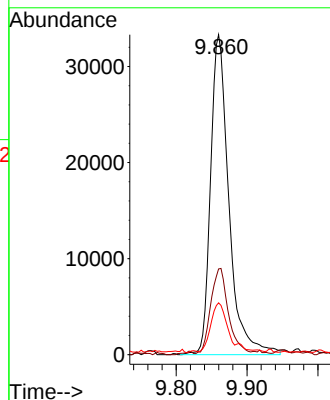
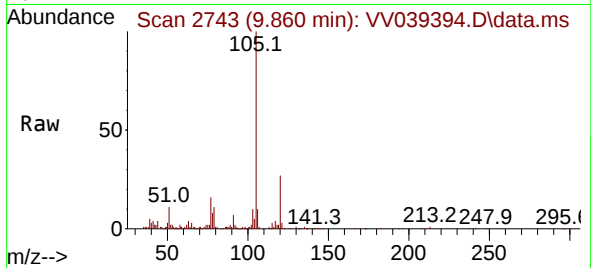




#60
Isopropylbenzene
Concen: 1.896 ug/L
RT: 9.860 min Scan# 21
Delta R.T. 0.007 min
Lab File: VV039394.D
Acq: 17 Nov 2025 16:03

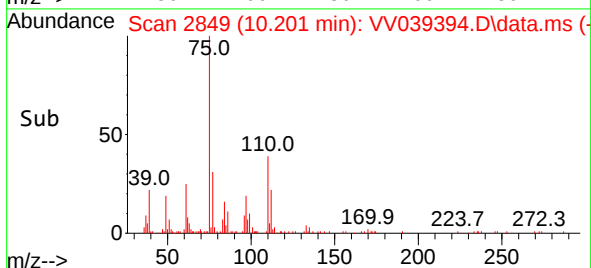
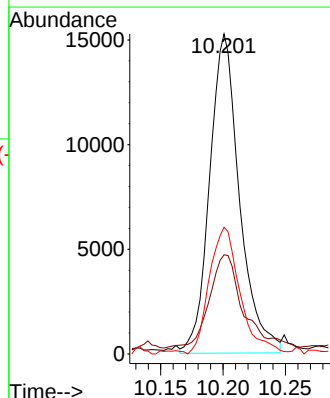
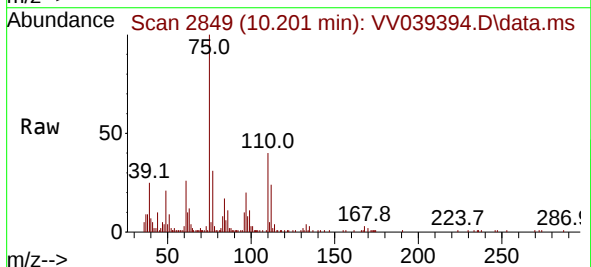
Instrument :
MSVOA_V
ClientSampleId :
MDL-MED-SOIL-QT4-2025-07

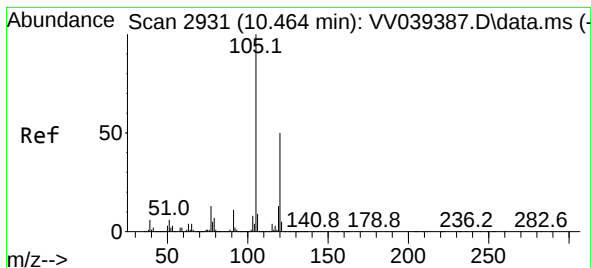
Tgt Ion:	105	Resp:	59851
Ion	Ratio	Lower	Upper
105	100		
120	26.3	21.4	32.0
77	13.0	12.3	18.5



#61
1,2,3-Trichloropropane
Concen: 2.520 ug/L
RT: 10.201 min Scan# 2849
Delta R.T. 0.007 min
Lab File: VV039394.D
Acq: 17 Nov 2025 16:03

Tgt Ion:	75	Resp:	25481
Ion	Ratio	Lower	Upper
75	100		
77	31.3	25.7	38.5
110	40.9	32.6	49.0

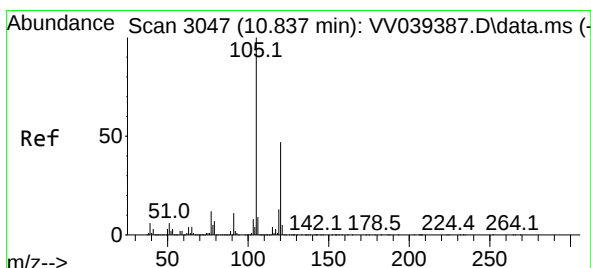
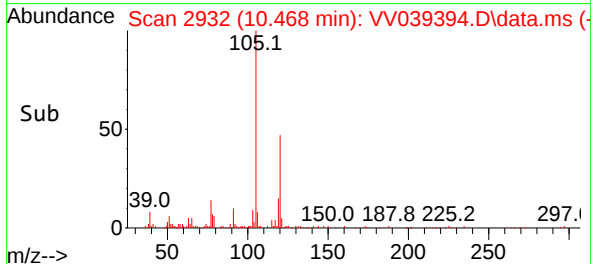
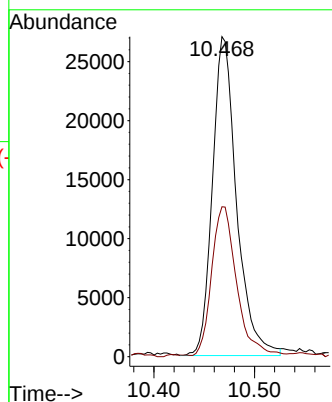
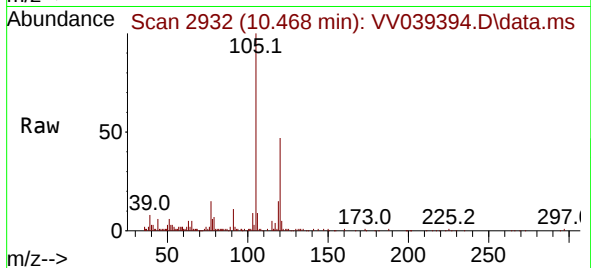




#62
 1,3,5-Trimethylbenzene
 Concen: 1.827 ug/L
 RT: 10.468 min Scan# 2931
 Delta R.T. 0.003 min
 Lab File: VV039394.D
 Acq: 17 Nov 2025 16:03

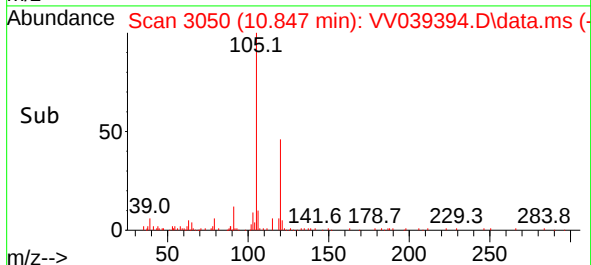
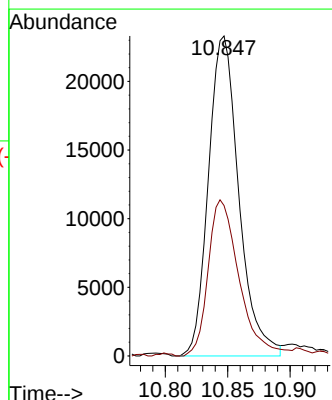
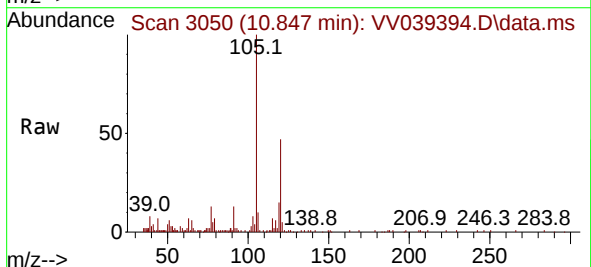
Instrument : MSVOA_V
 ClientSampleId : MDL-MED-SOIL-QT4-2025-07

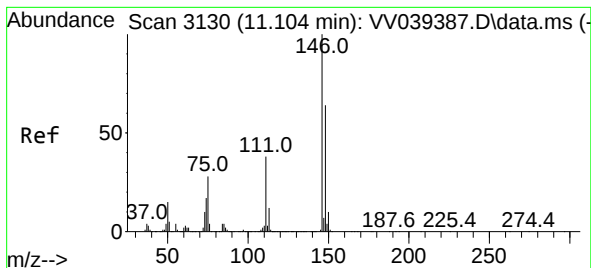
Tgt Ion:105 Resp: 45030
 Ion Ratio Lower Upper
 105 100
 120 47.4 39.8 59.8



#63
 1,2,4-Trimethylbenzene
 Concen: 1.634 ug/L
 RT: 10.847 min Scan# 3050
 Delta R.T. 0.010 min
 Lab File: VV039394.D
 Acq: 17 Nov 2025 16:03

Tgt Ion:105 Resp: 39594
 Ion Ratio Lower Upper
 105 100
 120 49.9 37.4 56.2





#64

1,3-Dichlorobenzene

Concen: 2.033 ug/L

RT: 11.114 min Scan# 3133

Delta R.T. 0.010 min

Lab File: VV039394.D

Acq: 17 Nov 2025 16:03

Instrument :

MSVOA_V

ClientSampleId :

MDL-MED-SOIL-QT4-2025-07

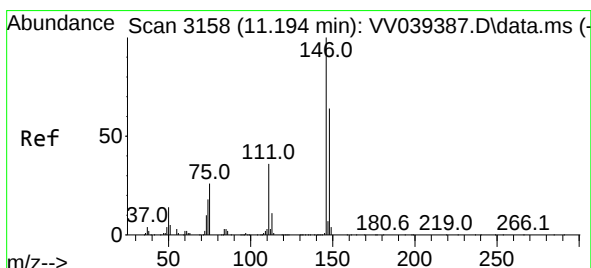
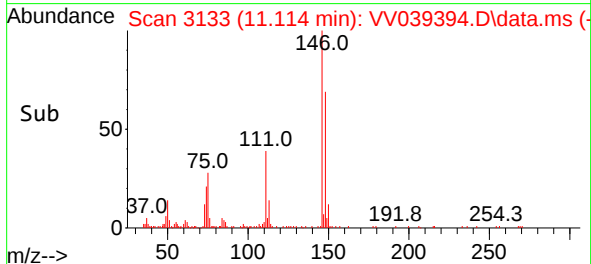
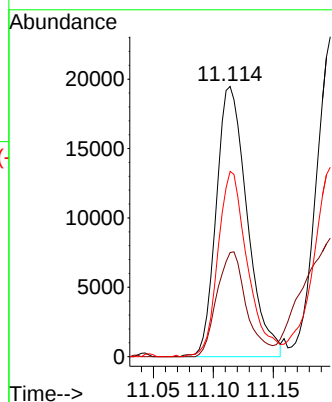
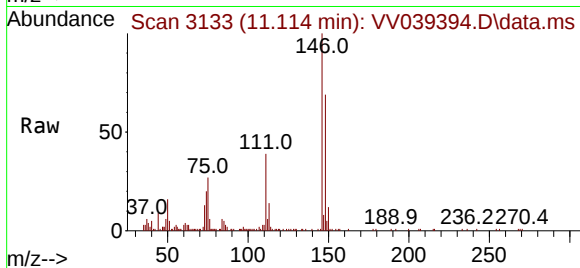
Tgt Ion:146 Resp: 34928

Ion Ratio Lower Upper

146 100

111 38.5 26.5 49.3

148 68.5 44.6 82.8



#65

1,4-Dichlorobenzene

Concen: 2.385 ug/L

RT: 11.197 min Scan# 3159

Delta R.T. 0.003 min

Lab File: VV039394.D

Acq: 17 Nov 2025 16:03

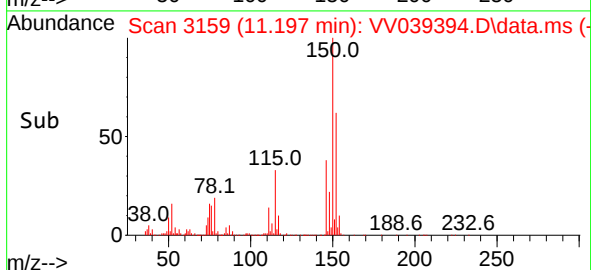
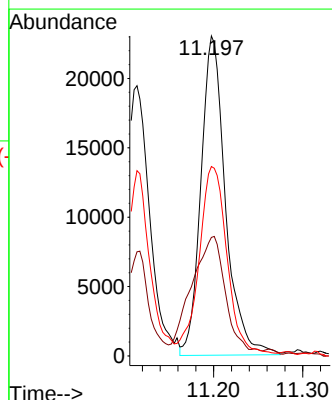
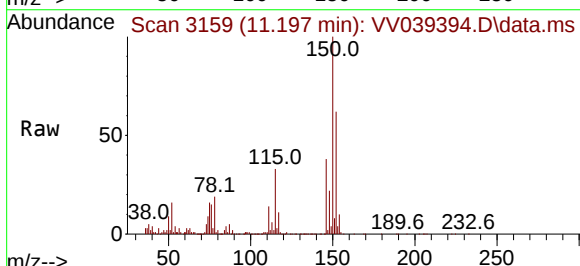
Tgt Ion:146 Resp: 44152

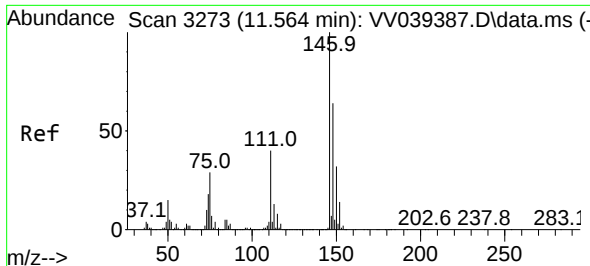
Ion Ratio Lower Upper

146 100

111 37.0 25.6 47.4

148 59.2 44.9 83.5

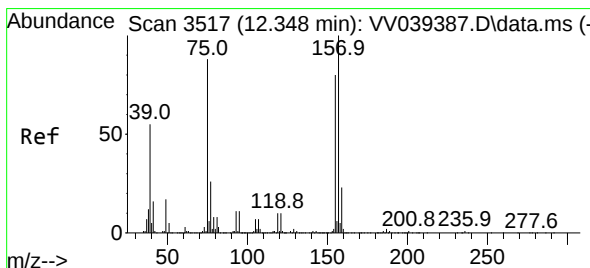
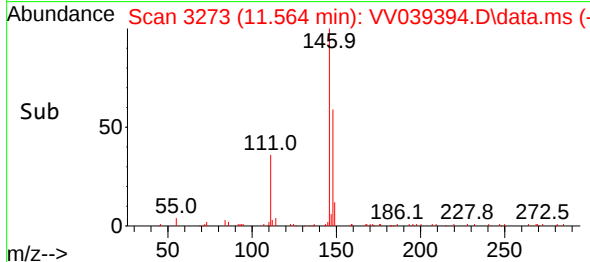
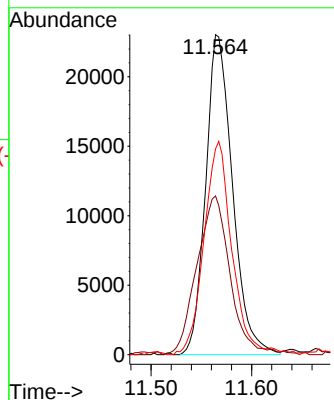
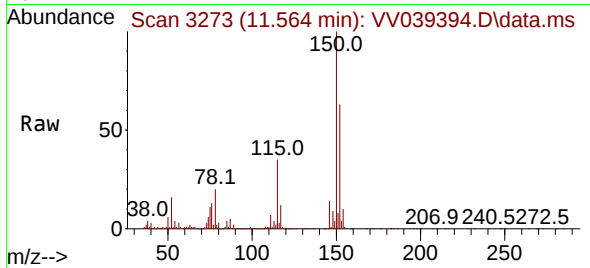




#67
 1,2-Dichlorobenzene
 Concen: 2.491 ug/L
 RT: 11.564 min Scan# 31
 Delta R.T. 0.000 min
 Lab File: VV039394.D
 Acq: 17 Nov 2025 16:03

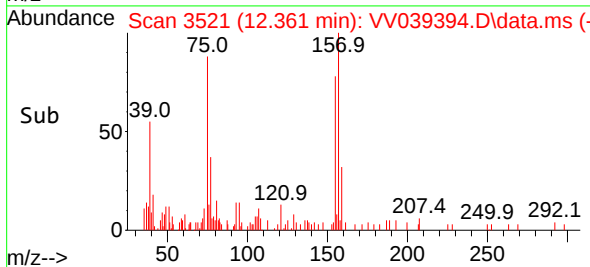
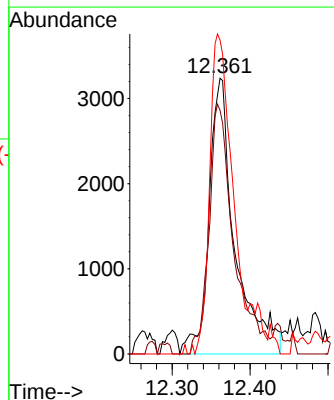
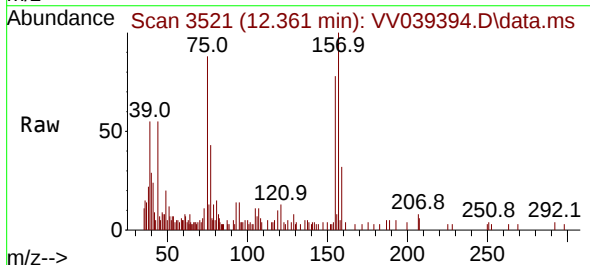
Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-MED-SOIL-QT4-2025-07

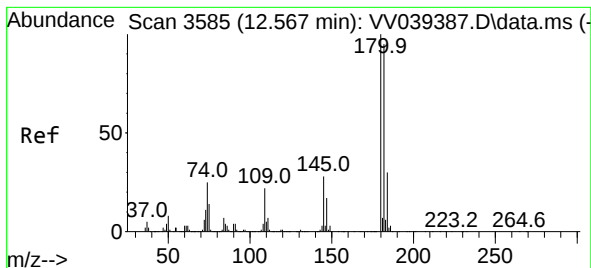
Tgt Ion:146 Resp: 42756
 Ion Ratio Lower Upper
 146 100
 111 49.6 32.2 48.2#
 148 64.3 51.6 77.4



#68
 1,2-Dibromo-3-chloropropane
 Concen: 2.639 ug/L
 RT: 12.361 min Scan# 3521
 Delta R.T. 0.013 min
 Lab File: VV039394.D
 Acq: 17 Nov 2025 16:03

Tgt Ion: 75 Resp: 7491
 Ion Ratio Lower Upper
 75 100
 155 88.4 73.0 109.4
 157 113.8 91.0 136.4





#69

1,3,5-Trichlorobenzene

Concen: 2.176 ug/L

RT: 12.577 min Scan# 3

Delta R.T. 0.010 min

Lab File: VV039394.D

Acq: 17 Nov 2025 16:03

Instrument :

MSVOA_V

ClientSampleId :

MDL-MED-SOIL-QT4-2025-07

Tgt Ion:180 Resp: 26634

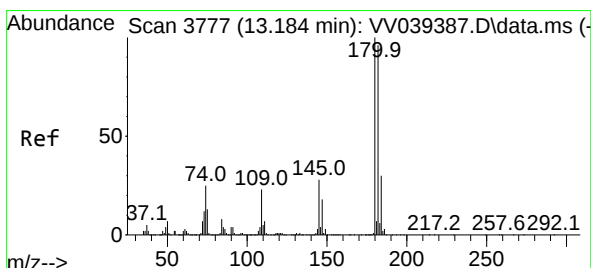
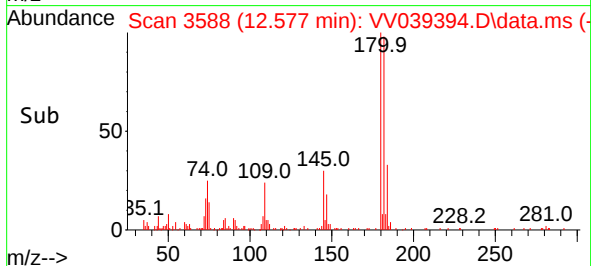
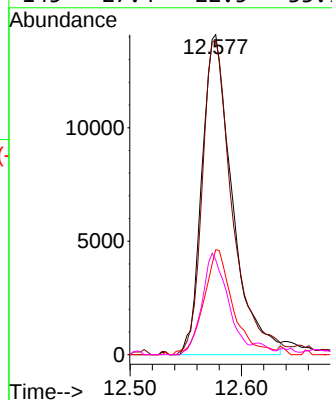
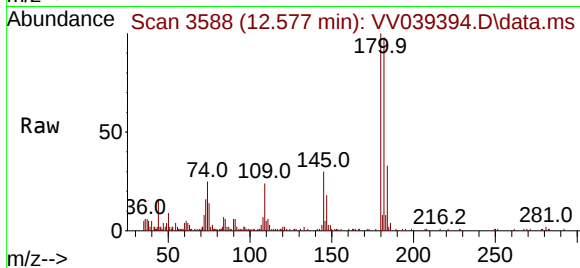
Ion Ratio Lower Upper

180 100

182 97.8 75.8 113.8

184 29.3 24.3 36.5

145 27.4 22.5 33.7



#70

1,2,4-trichlorobenzene

Concen: 1.967 ug/L

RT: 13.194 min Scan# 3780

Delta R.T. 0.010 min

Lab File: VV039394.D

Acq: 17 Nov 2025 16:03

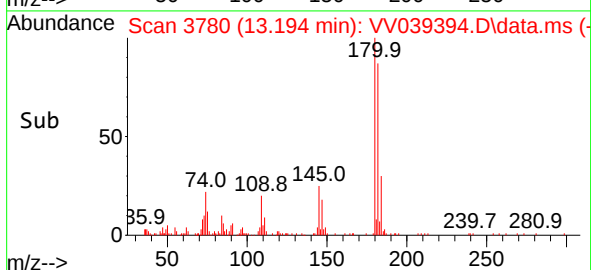
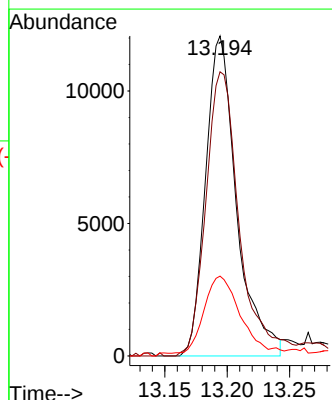
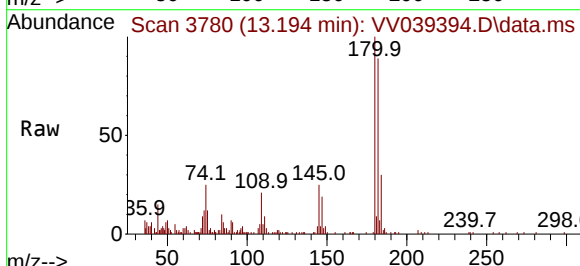
Tgt Ion:180 Resp: 20978

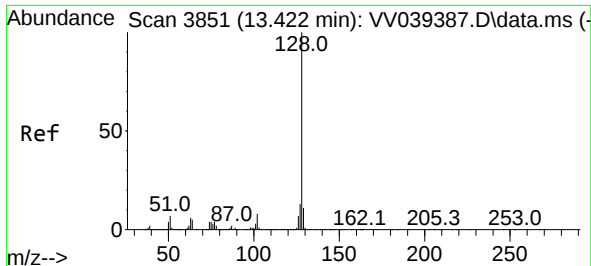
Ion Ratio Lower Upper

180 100

182 95.6 76.1 114.1

145 29.1 22.5 33.7

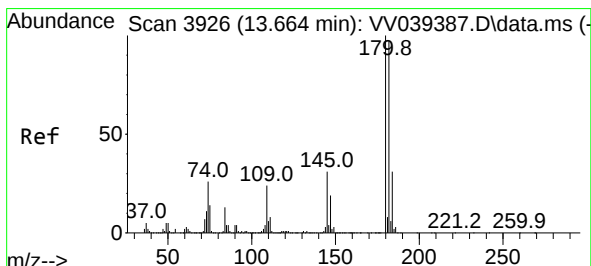
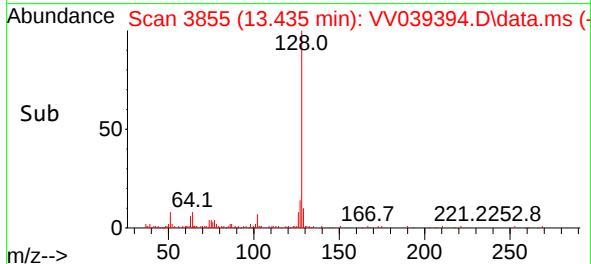
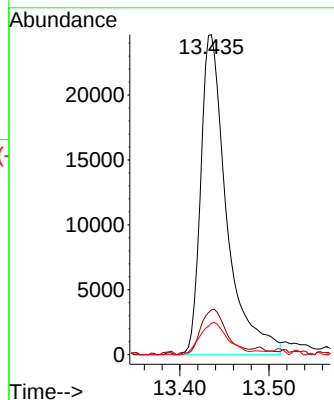
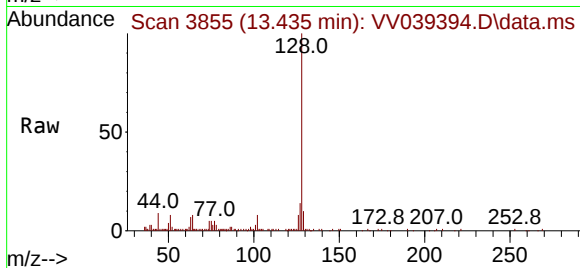




#71
Naphthalene
Concen: 1.658 ug/L
RT: 13.435 min Scan# 3855
Delta R.T. 0.013 min
Lab File: VV039394.D
Acq: 17 Nov 2025 16:03

Instrument :
MSVOA_V
ClientSampleId :
MDL-MED-SOIL-QT4-2025-07

Tgt Ion:128 Resp: 49793
Ion Ratio Lower Upper
128 100
127 14.0 10.6 16.0
129 10.7 8.7 13.1



#72
1,2,3-Trichlorobenzene
Concen: 1.940 ug/L
RT: 13.673 min Scan# 3929
Delta R.T. 0.010 min
Lab File: VV039394.D
Acq: 17 Nov 2025 16:03

Tgt Ion:180 Resp: 21442
Ion Ratio Lower Upper
180 100
182 93.7 76.6 115.0
145 29.1 24.3 36.5

