

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VW111825\
 Data File : VW039401.D
 Acq On : 18 Nov 2025 11:35
 Operator : SY/MD
 Sample : Q3589-06
 Misc : 5.00g/5.0mL/100uL/5.0mL/MSVOA_V/MEOH
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-MED-SOIL-QT4-2025-08

Quant Time: Nov 19 03:53:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM111725WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Nov 19 03:46:50 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.532	114	1022272	50.000	ug/L	0.00
28) Chlorobenzene-d5	8.773	117	1055512	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.172	152	510314	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.291	65	463105	46.483	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	92.960%
7) Chloroethane-d5	1.545	69	367574	49.417	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	98.840%
11) 1,1-Dichloroethene-d2	2.072	65	200147	47.729	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	95.460%
21) 2-Butanone-d5	3.786	46	471132	89.561	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	89.560%
24) Chloroform-d	4.252	84	796393	48.234	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.460%
26) 1,2-Dichloroethane-d4	4.940	65	521904	50.794	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.580%
32) Benzene-d6	4.960	84	1558637	49.506	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.020%
36) 1,2-Dichloropropane-d6	5.982	67	501620	51.051	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	102.100%
41) Toluene-d8	7.236	98	1353121	46.536	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	93.080%
43) trans-1,3-Dichloroprop...	7.545	79	223904	45.165	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	90.320%
47) 2-Hexanone-d5	8.014	63	340502	90.711	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	90.710%
56) 1,1,2,2-Tetrachloroeth...	10.140	84	681333	47.438	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	94.880%
66) 1,2-Dichlorobenzene-d4	11.548	152	529094	55.197	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	110.400%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.121	85	16921	2.359	ug/L	93
3) Chloromethane	1.230	50	20283	2.580	ug/L	96
5) Vinyl chloride	1.146	62	81	0.009	ug/L	91
6) Bromomethane	1.500	94	15297	3.100	ug/L	100
8) Chloroethane	1.561	64	15526	2.663	ug/L	89
9) Trichlorofluoromethane	1.728	101	37721	2.632	ug/L	98
10) 1,1,2-Trichloro-1,2,2-...	2.085	101	27349	3.141	ug/L #	84
12) 1,1-Dichloroethene	1.892	96	208	0.028	ug/L	80
13) Acetone	2.124	43	35210	4.944	ug/L	97
14) Carbon disulfide	2.252	76	53330	2.506	ug/L	100
15) Methyl Acetate	2.394	43	20388	2.203	ug/L	97
16) Methylene chloride	2.461	84	21584	2.458	ug/L	98
17) trans-1,2-Dichloroethene	2.712	96	18900	2.418	ug/L	87
18) Methyl tert-butyl Ether	2.712	73	50074	2.098	ug/L	97
19) 1,1-Dichloroethane	3.127	63	36802	2.375	ug/L	96
20) cis-1,2-Dichloroethene	3.828	96	20501	2.435	ug/L	93
22) 2-Butanone	3.895	43	6243	0.881	ug/L	84
23) Bromochloromethane	4.169	128	12462	2.507	ug/L	95
25) Chloroform	4.284	83	64177	3.793	ug/L	98

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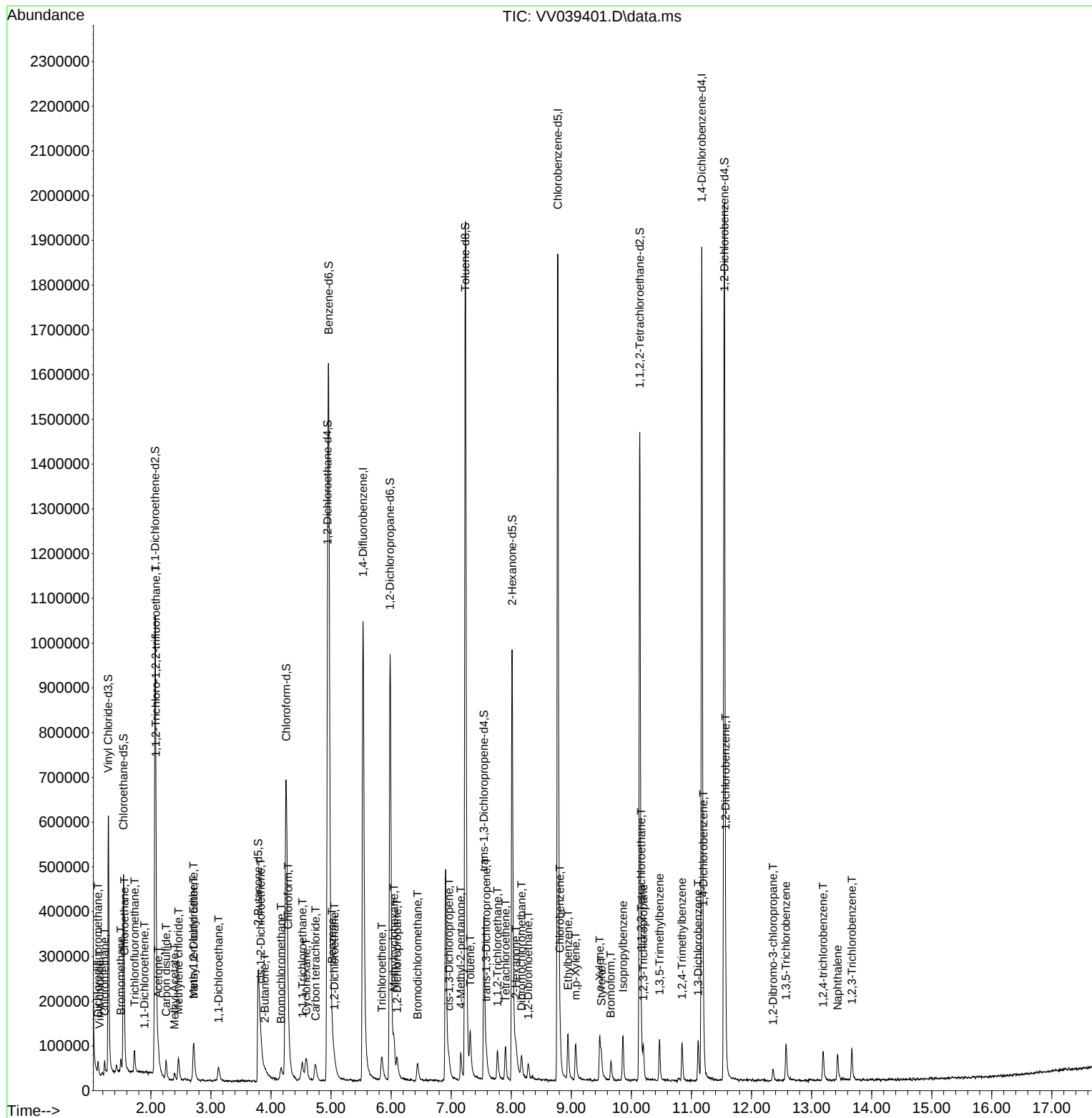
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
27) 1,2-Dichloroethane	5.056	62	35322	2.833	ug/L	98
29) Cyclohexane	4.587	56	24899	1.993	ug/L #	89
30) 1,1,1-Trichloroethane	4.522	97	35453	2.375	ug/L #	81
31) Carbon tetrachloride	4.744	117	30392	2.211	ug/L	89
33) Benzene	5.014	78	74622	2.264	ug/L	100
34) Trichloroethene	5.847	95	21383	2.402	ug/L	97
35) Methylcyclohexane	6.046	83	25908	1.980	ug/L	89
37) 1,2-Dichloropropane	6.098	63	20971	2.250	ug/L	99
38) Bromodichloromethane	6.439	83	29993	2.315	ug/L	99
39) cis-1,3-Dichloropropene	6.963	75	28251	1.968	ug/L	90
40) 4-Methyl-2-pentanone	7.159	43	44418	3.791	ug/L	96
42) Toluene	7.316	91	84483	2.419	ug/L	97
44) trans-1,3-Dichloropropene	7.583	75	28729	2.077	ug/L	99
45) 1,1,2-Trichloroethane	7.770	97	22742	2.346	ug/L	96
46) Tetrachloroethene	7.905	164	20697	2.531	ug/L	95
48) 2-Hexanone	8.079	43	40094	4.096	ug/L #	95
49) Dibromochloromethane	8.172	129	27237	2.460	ug/L	100
50) 1,2-Dibromoethane	8.284	107	25408	2.433	ug/L #	99
51) Chlorobenzene	8.808	112	60752	2.427	ug/L	97
52) Ethylbenzene	8.943	91	80126	2.111	ug/L	98
53) m,p-Xylene	9.072	106	27417	1.887	ug/L	99
54) o-Xylene	9.474	106	24728	1.781	ug/L	95
55) Styrene	9.500	104	38627	1.582	ug/L	93
57) 1,1,2,2-Tetrachloroethane	10.165	83	42400	2.722	ug/L #	91
59) Bromoform	9.657	173	20976	2.686	ug/L	98
60) Isopropylbenzene	9.860	105	67829	2.184	ug/L	99
61) 1,2,3-Trichloropropane	10.201	75	31190	3.135	ug/L	98
62) 1,3,5-Trimethylbenzene	10.467	105	50886	2.098	ug/L	99
63) 1,2,4-Trimethylbenzene	10.844	105	46381	1.945	ug/L	96
64) 1,3-Dichlorobenzene	11.111	146	40556	2.398	ug/L	94
65) 1,4-Dichlorobenzene	11.197	146	51154	2.808	ug/L	96
67) 1,2-Dichlorobenzene	11.567	146	50417	2.985	ug/L	96
68) 1,2-Dibromo-3-chloropr...	12.358	75	6933	2.482	ug/L	92
69) 1,3,5-Trichlorobenzene	12.574	180	28662	2.380	ug/L	92
70) 1,2,4-trichlorobenzene	13.191	180	22896	2.181	ug/L	93
71) Naphthalene	13.432	128	57217	1.936	ug/L	98
72) 1,2,3-Trichlorobenzene	13.670	180	24071	2.214	ug/L	96

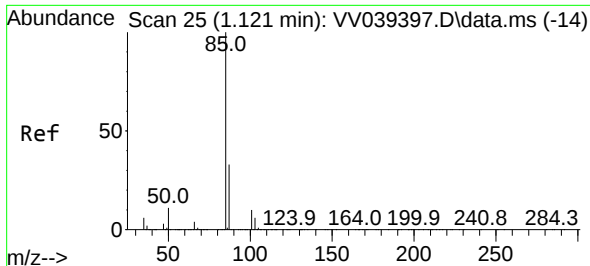
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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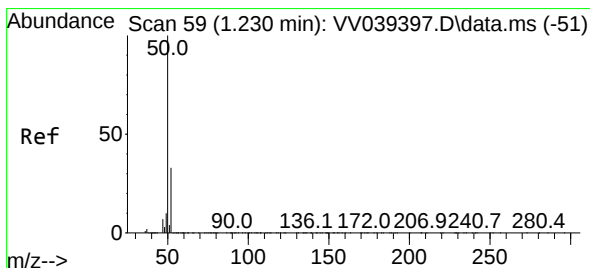
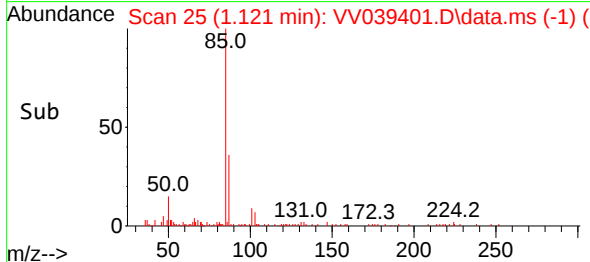
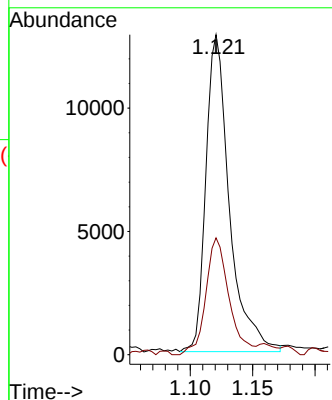
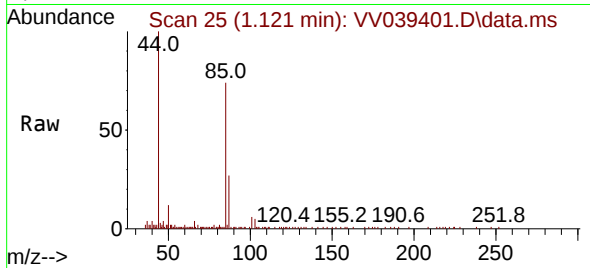




#2
Dichlorodifluoromethane
Concen: 2.359 ug/L
RT: 1.121 min Scan# 21
Delta R.T. -0.000 min
Lab File: VV039401.D
Acq: 18 Nov 2025 11:35

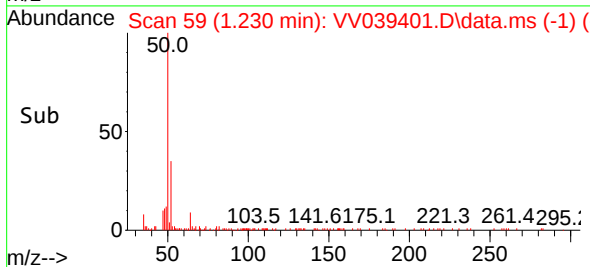
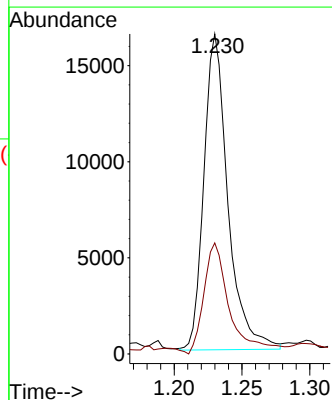
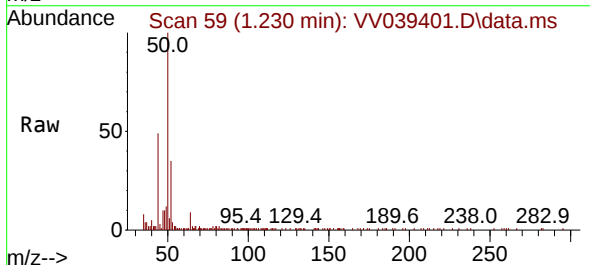
Instrument : MSVOA_V
ClientSampleId : MDL-MED-SOIL-QT4-2025-08

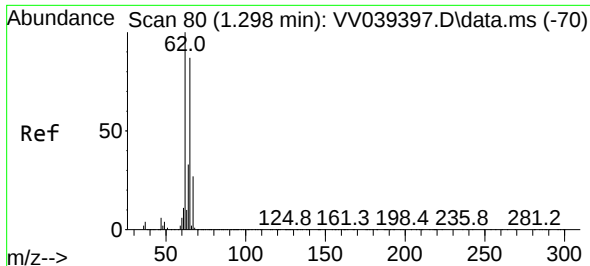
Tgt Ion: 85 Resp: 16921
Ion Ratio Lower Upper
85 100
87 36.4 26.1 39.1



#3
Chloromethane
Concen: 2.580 ug/L
RT: 1.230 min Scan# 59
Delta R.T. -0.000 min
Lab File: VV039401.D
Acq: 18 Nov 2025 11:35

Tgt Ion: 50 Resp: 20283
Ion Ratio Lower Upper
50 100
52 34.7 22.7 42.3

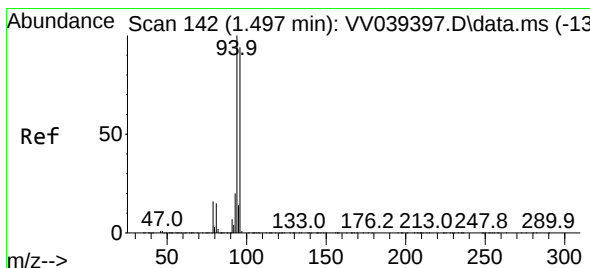
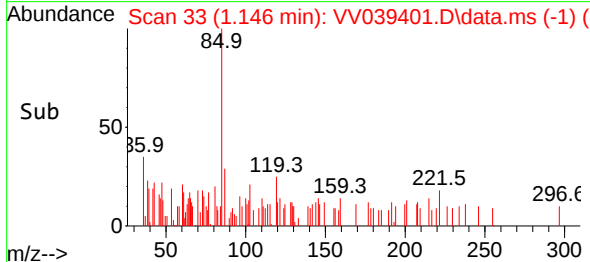
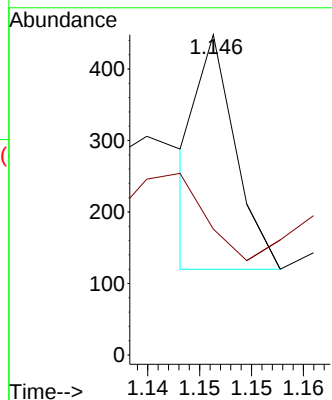
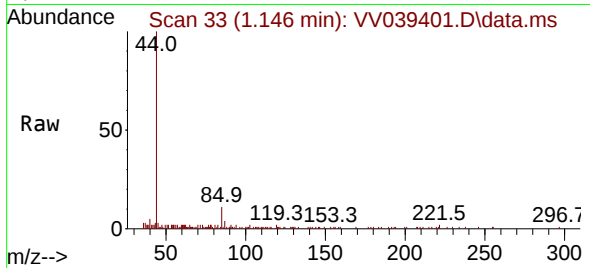




#5
 Vinyl chloride
 Concen: 0.009 ug/L
 RT: 1.146 min Scan# 31
 Delta R.T. -0.151 min
 Lab File: VV039401.D
 Acq: 18 Nov 2025 11:35

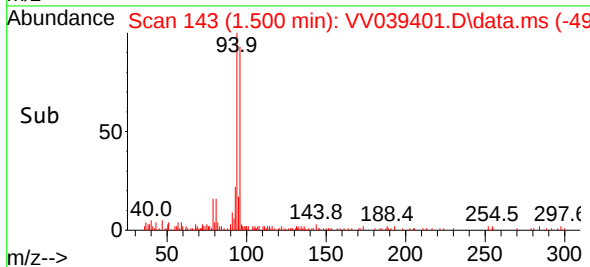
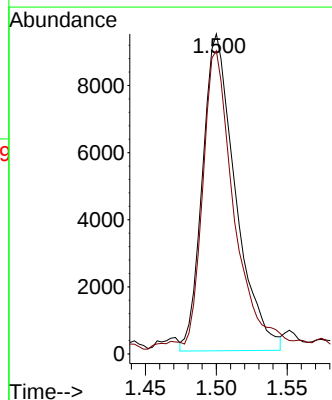
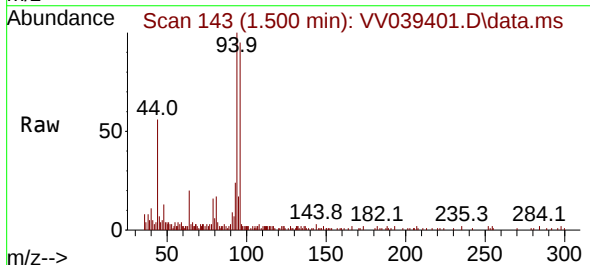
Instrument :
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 ClientSampleId :
 MDL-MED-SOIL-QT4-2025-08

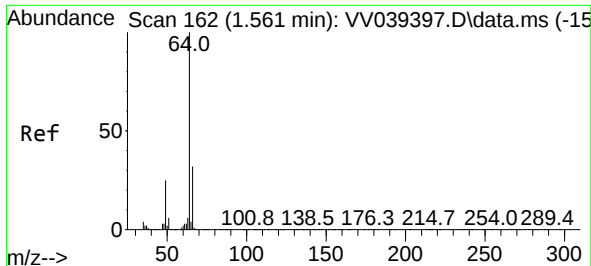
Tgt Ion: 62 Resp: 81
 Ion Ratio Lower Upper
 62 100
 64 39.3 23.7 44.1



#6
 Bromomethane
 Concen: 3.100 ug/L
 RT: 1.500 min Scan# 143
 Delta R.T. 0.003 min
 Lab File: VV039401.D
 Acq: 18 Nov 2025 11:35

Tgt Ion: 94 Resp: 15297
 Ion Ratio Lower Upper
 94 100
 96 94.7 66.6 123.8

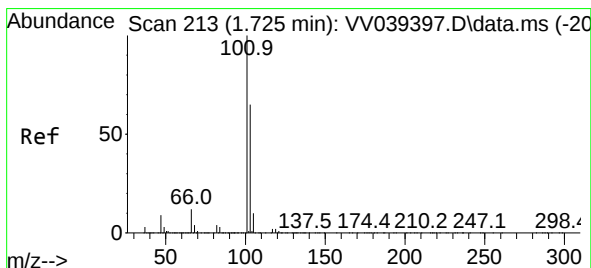
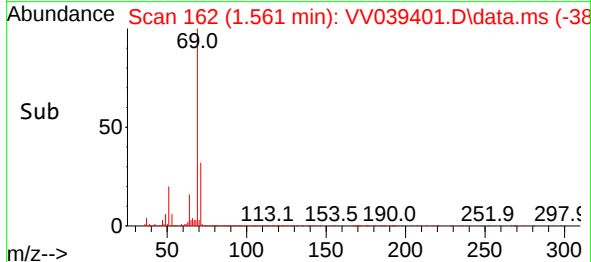
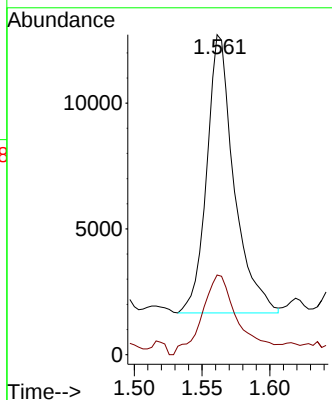
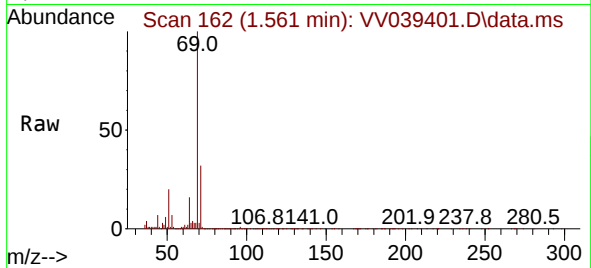




#8
Chloroethane
Concen: 2.663 ug/L
RT: 1.561 min Scan# 1
Delta R.T. -0.000 min
Lab File: VV039401.D
Acq: 18 Nov 2025 11:35

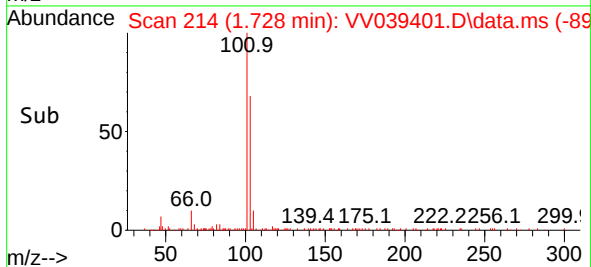
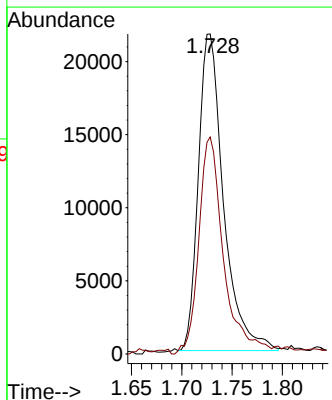
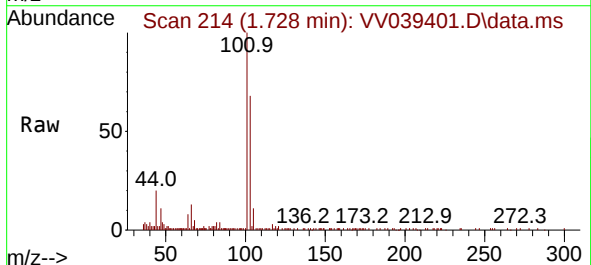
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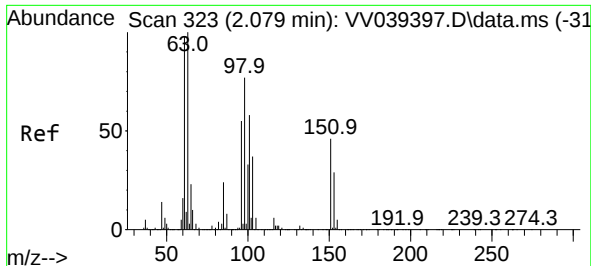
Tgt Ion: 64 Resp: 15526
Ion Ratio Lower Upper
64 100
66 24.9 21.6 40.2



#9
Trichlorofluoromethane
Concen: 2.632 ug/L
RT: 1.728 min Scan# 214
Delta R.T. 0.003 min
Lab File: VV039401.D
Acq: 18 Nov 2025 11:35

Tgt Ion: 101 Resp: 37721
Ion Ratio Lower Upper
101 100
103 65.2 51.0 76.6

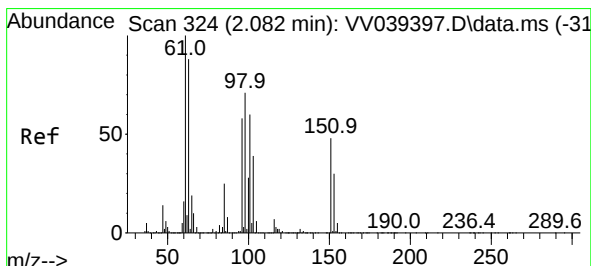
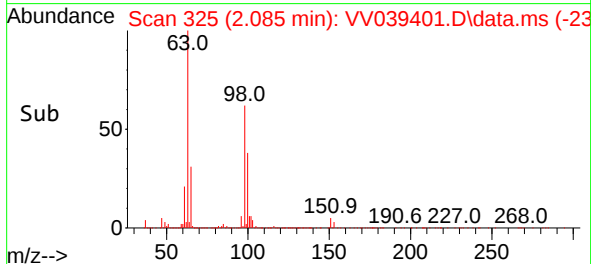
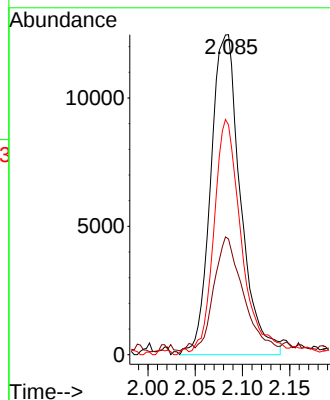
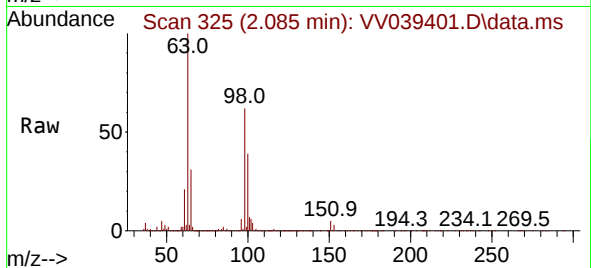




#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 3.141 ug/L
RT: 2.085 min Scan# 31
Delta R.T. 0.006 min
Lab File: VV039401.D
Acq: 18 Nov 2025 11:35

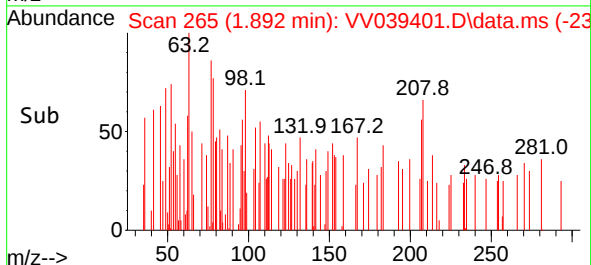
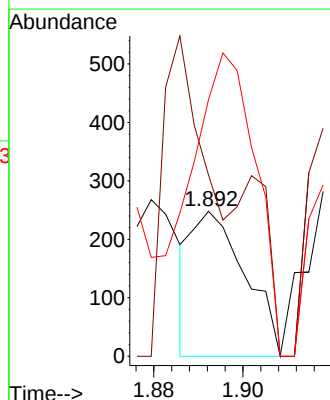
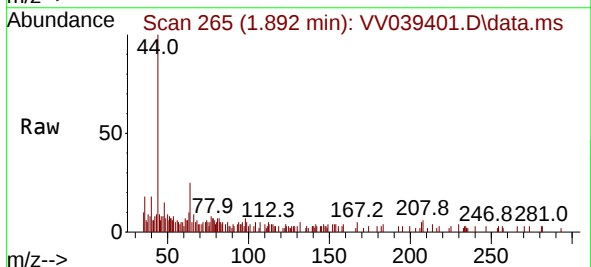
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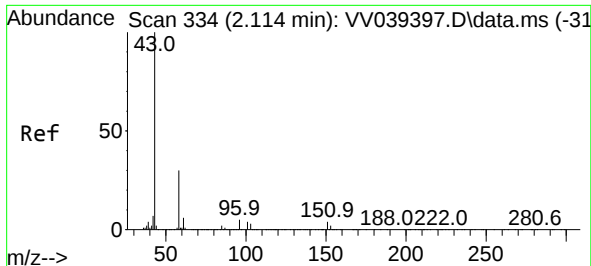
Tgt Ion:101 Resp: 27349
Ion Ratio Lower Upper
101 100
85 33.4 33.7 50.5#
151 63.8 63.6 95.4



#12
1,1-Dichloroethene
Concen: 0.028 ug/L
RT: 1.892 min Scan# 265
Delta R.T. -0.190 min
Lab File: VV039401.D
Acq: 18 Nov 2025 11:35

Tgt Ion: 96 Resp: 208
Ion Ratio Lower Upper
96 100
61 125.0 124.3 230.8
63 177.0 121.8 226.2

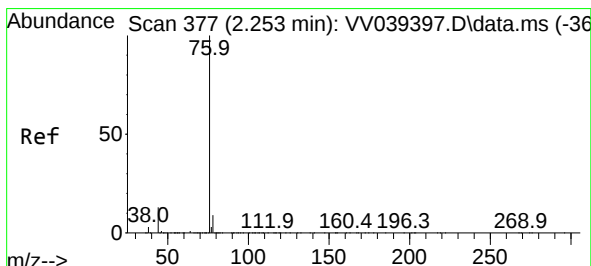
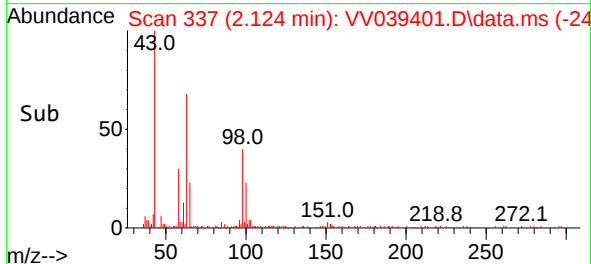
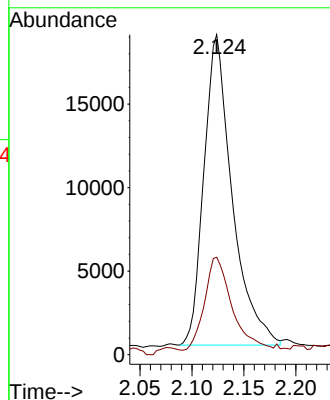
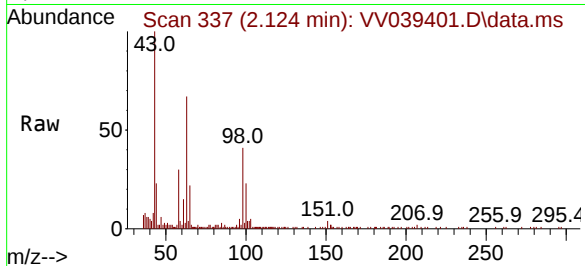




#13
Acetone
Concen: 4.944 ug/L
RT: 2.124 min Scan# 31
Delta R.T. 0.010 min
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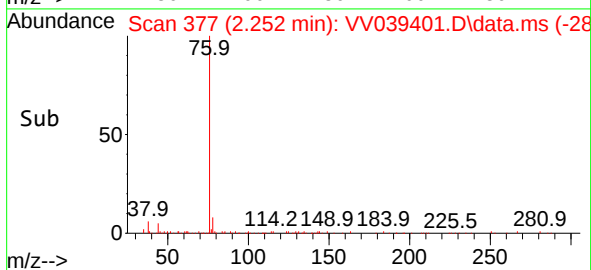
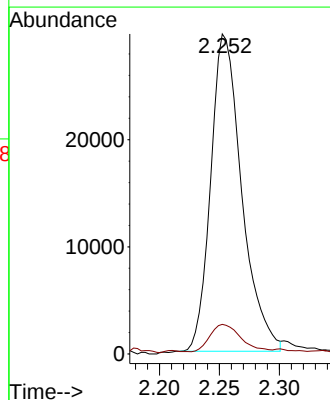
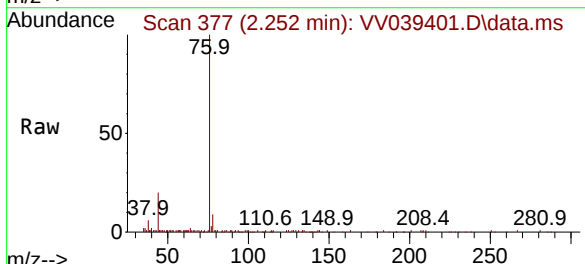
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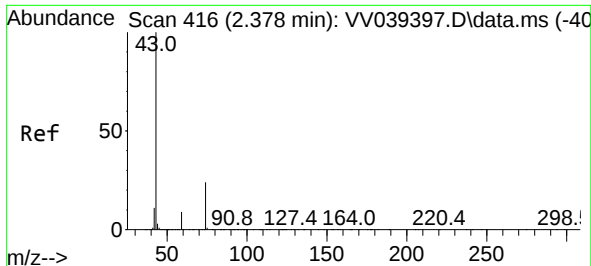
Tgt Ion: 43 Resp: 35210
Ion Ratio Lower Upper
43 100
58 30.0 0.0 63.2



#14
Carbon disulfide
Concen: 2.506 ug/L
RT: 2.252 min Scan# 377
Delta R.T. -0.000 min
Lab File: VV039401.D
Acq: 18 Nov 2025 11:35

Tgt Ion: 76 Resp: 53330
Ion Ratio Lower Upper
76 100
78 9.2 7.4 11.2

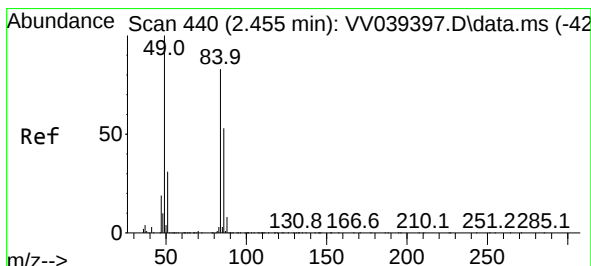
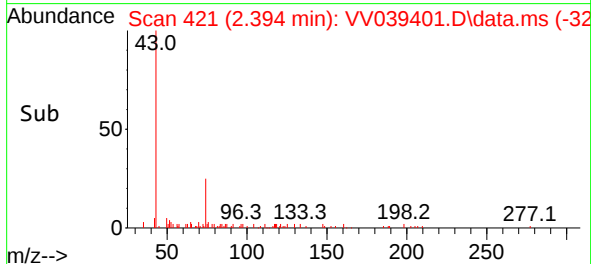
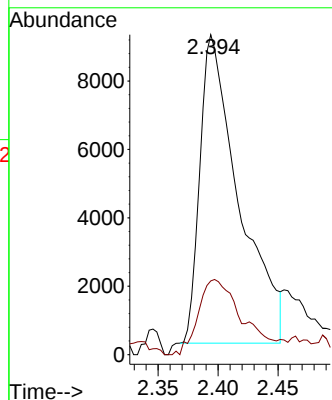
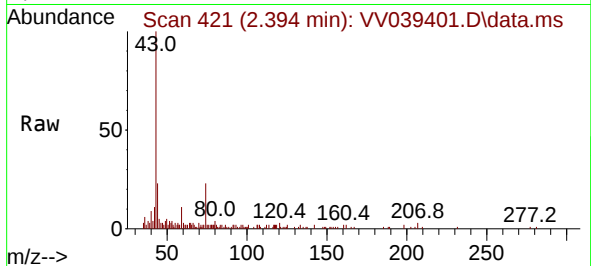




#15
Methyl Acetate
Concen: 2.203 ug/L
RT: 2.394 min Scan# 416
Delta R.T. 0.016 min
Lab File: VV039401.D
Acq: 18 Nov 2025 11:35

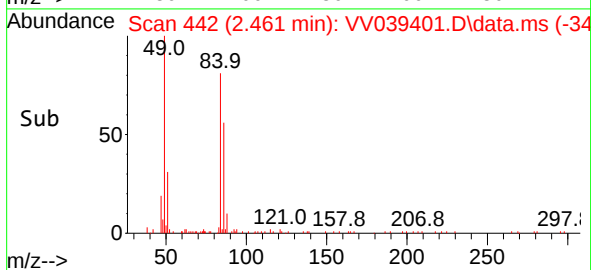
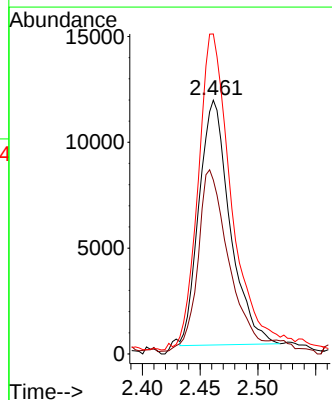
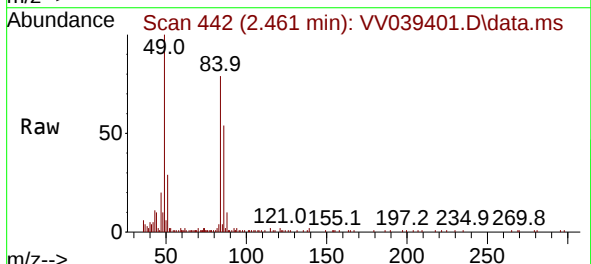
Instrument :
MSVOA_V
ClientSampleId :
MDL-MED-SOIL-QT4-2025-08

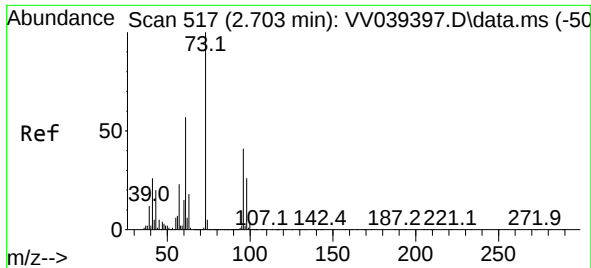
Tgt Ion: 43 Resp: 20388
Ion Ratio Lower Upper
43 100
74 21.7 18.7 28.1



#16
Methylene chloride
Concen: 2.458 ug/L
RT: 2.461 min Scan# 442
Delta R.T. 0.006 min
Lab File: VV039401.D
Acq: 18 Nov 2025 11:35

Tgt Ion: 84 Resp: 21584
Ion Ratio Lower Upper
84 100
86 68.5 44.4 82.5
49 126.1 88.2 163.8

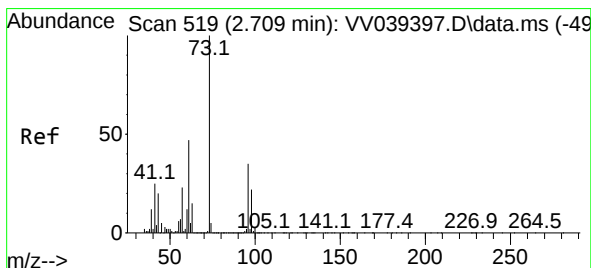
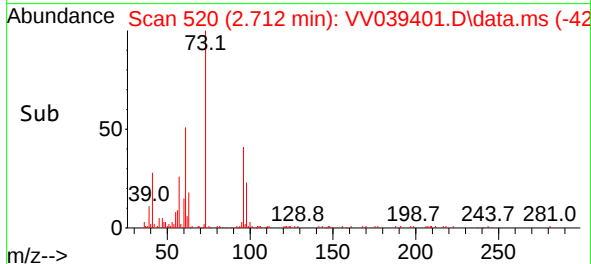
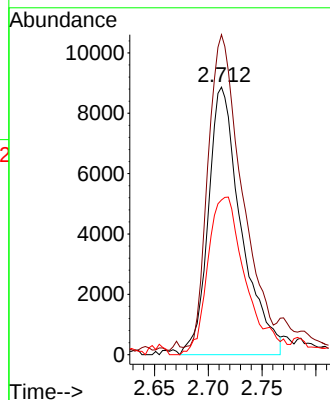
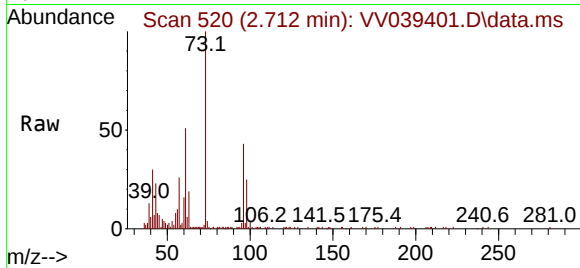




#17
trans-1,2-Dichloroethene
Concen: 2.418 ug/L
RT: 2.712 min Scan# 517
Delta R.T. 0.010 min
Lab File: VV039401.D
Acq: 18 Nov 2025 11:35

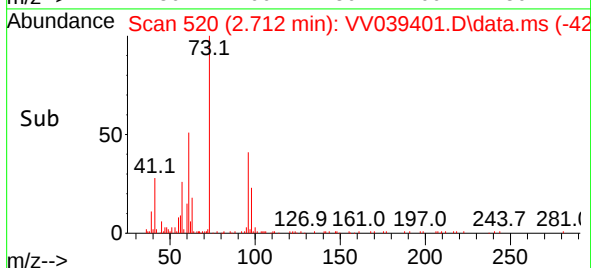
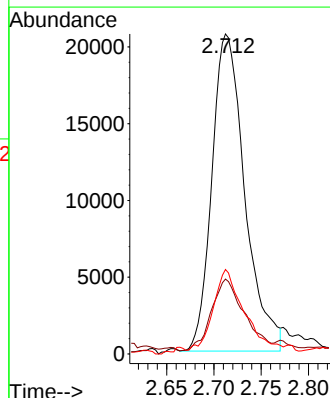
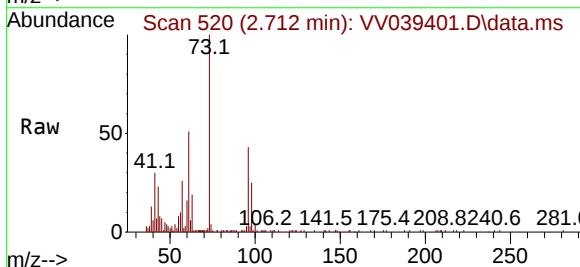
Instrument : MSVOA_V
ClientSampleId : MDL-MED-SOIL-QT4-2025-08

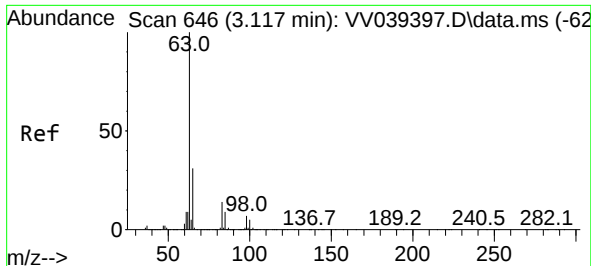
Tgt Ion: 96 Resp: 18900
Ion Ratio Lower Upper
96 100
61 119.6 96.1 178.5
98 57.8 45.0 83.6



#18
Methyl tert-butyl Ether
Concen: 2.098 ug/L
RT: 2.712 min Scan# 520
Delta R.T. 0.003 min
Lab File: VV039401.D
Acq: 18 Nov 2025 11:35

Tgt Ion: 73 Resp: 50074
Ion Ratio Lower Upper
73 100
43 22.2 15.4 23.2
57 22.3 17.6 26.4





#19

1,1-Dichloroethane

Concen: 2.375 ug/L

RT: 3.127 min Scan# 64

Delta R.T. 0.010 min

Lab File: VV039401.D

Acq: 18 Nov 2025 11:35

Instrument :

MSVOA_V

ClientSampleId :

MDL-MED-SOIL-QT4-2025-08

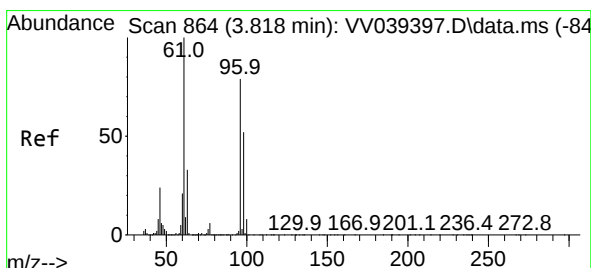
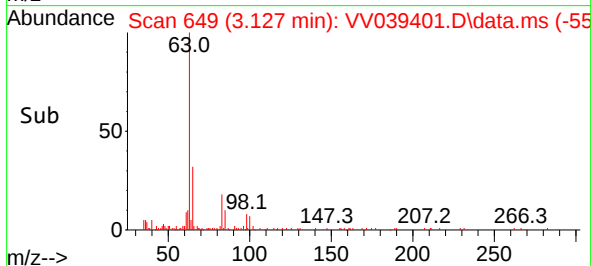
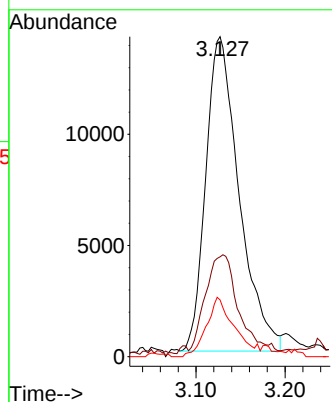
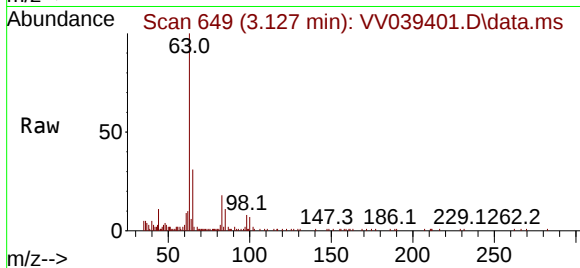
Tgt Ion: 63 Resp: 36802

Ion Ratio Lower Upper

63 100

65 31.2 22.4 41.6

83 17.8 9.6 17.8



#20

cis-1,2-Dichloroethene

Concen: 2.435 ug/L

RT: 3.828 min Scan# 867

Delta R.T. 0.009 min

Lab File: VV039401.D

Acq: 18 Nov 2025 11:35

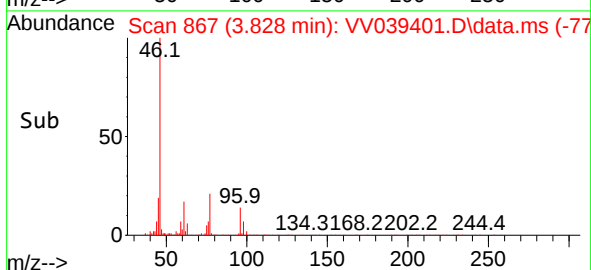
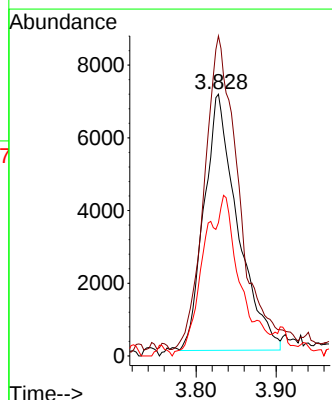
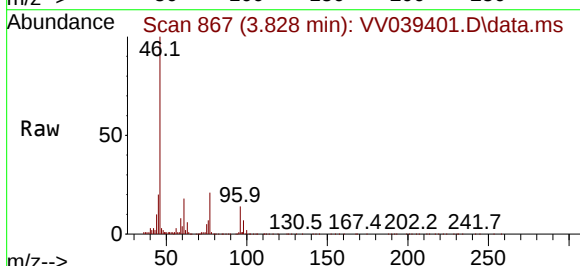
Tgt Ion: 96 Resp: 20501

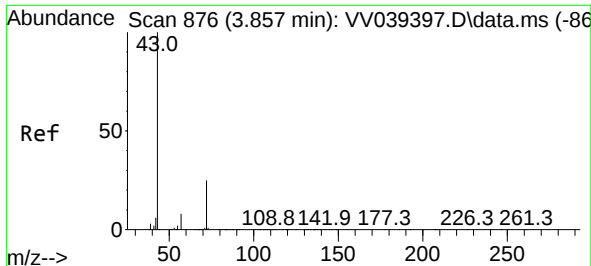
Ion Ratio Lower Upper

96 100

61 122.2 87.3 162.1

98 50.9 45.1 83.7

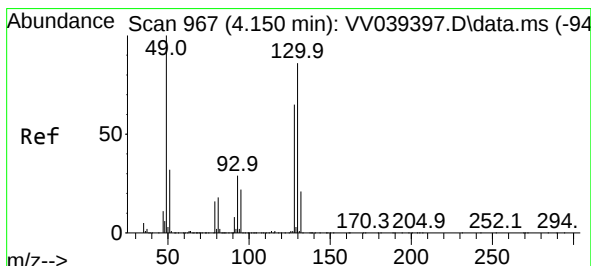
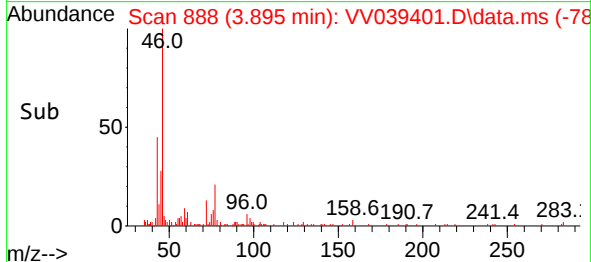
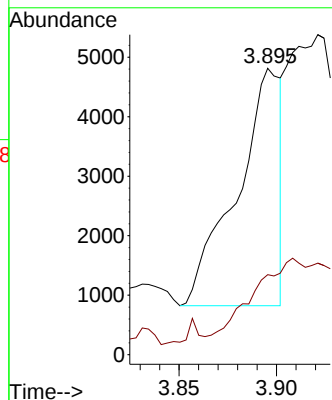
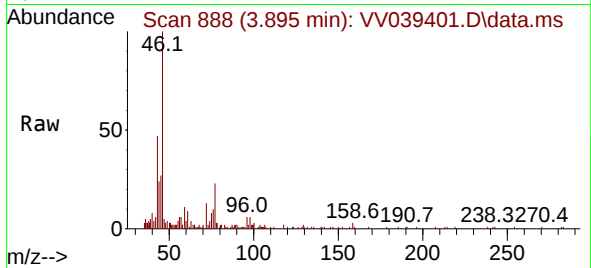




#22
2-Butanone
Concen: 0.881 ug/L
RT: 3.895 min Scan# 81
Delta R.T. 0.038 min
Lab File: VV039401.D
Acq: 18 Nov 2025 11:35

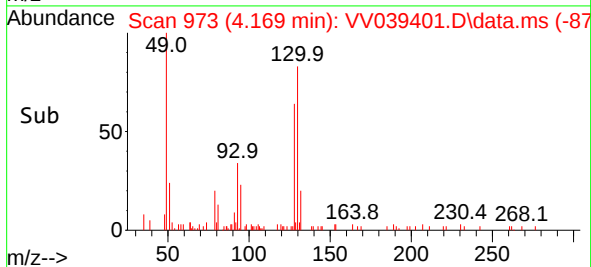
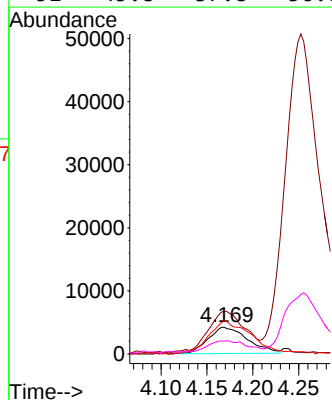
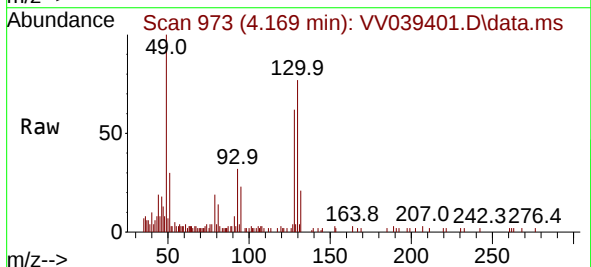
Instrument :
MSVOA_V
ClientSampleId :
MDL-MED-SOIL-QT4-2025-08

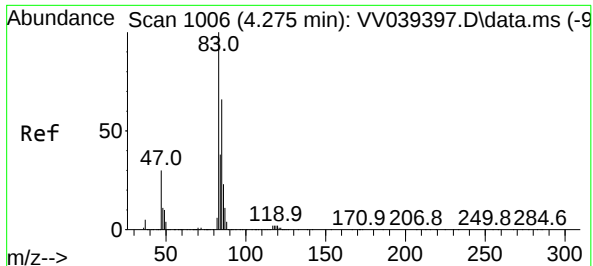
Tgt Ion: 43 Resp: 6243
Ion Ratio Lower Upper
43 100
72 18.2 13.3 39.9



#23
Bromochloromethane
Concen: 2.507 ug/L
RT: 4.169 min Scan# 973
Delta R.T. 0.019 min
Lab File: VV039401.D
Acq: 18 Nov 2025 11:35

Tgt Ion: 128 Resp: 12462
Ion Ratio Lower Upper
128 100
49 151.7 108.6 201.6
130 117.0 89.2 165.6
51 45.8 37.8 56.8

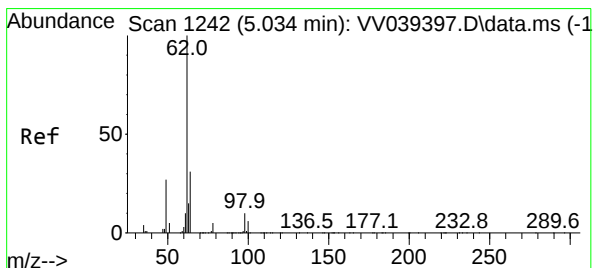
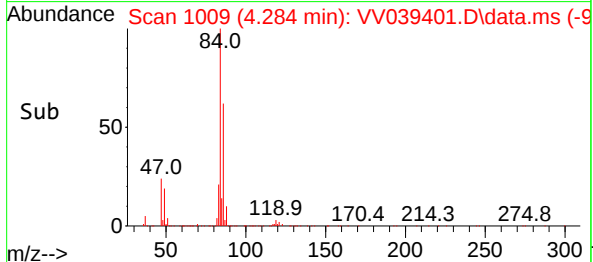
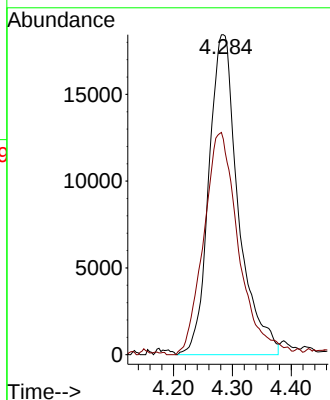
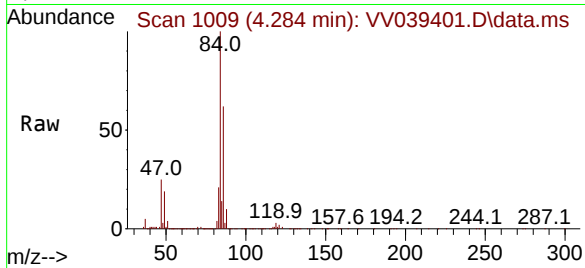




#25
Chloroform
Concen: 3.793 ug/L
RT: 4.284 min Scan# 1006
Delta R.T. 0.010 min
Lab File: VV039401.D
Acq: 18 Nov 2025 11:35

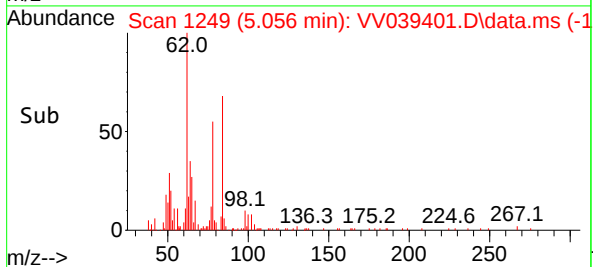
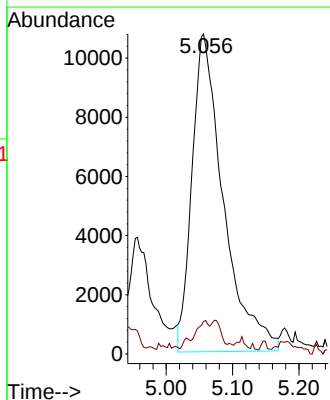
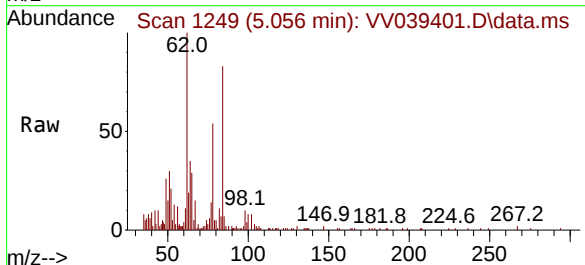
Instrument :
MSVOA_V
ClientSampleId :
MDL-MED-SOIL-QT4-2025-08

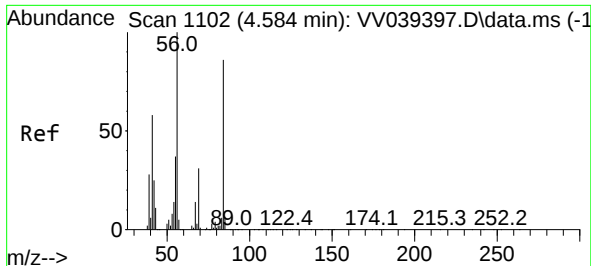
Tgt Ion: 83 Resp: 64177
Ion Ratio Lower Upper
83 100
85 67.3 46.0 85.4



#27
1,2-Dichloroethane
Concen: 2.833 ug/L
RT: 5.056 min Scan# 1249
Delta R.T. 0.022 min
Lab File: VV039401.D
Acq: 18 Nov 2025 11:35

Tgt Ion: 62 Resp: 35322
Ion Ratio Lower Upper
62 100
98 10.2 7.7 11.5





#29

Cyclohexane

Concen: 1.993 ug/L

RT: 4.587 min Scan# 1102

Delta R.T. 0.003 min

Lab File: VV039401.D

Acq: 18 Nov 2025 11:35

Instrument :

MSVOA_V

ClientSampleId :

MDL-MED-SOIL-QT4-2025-08

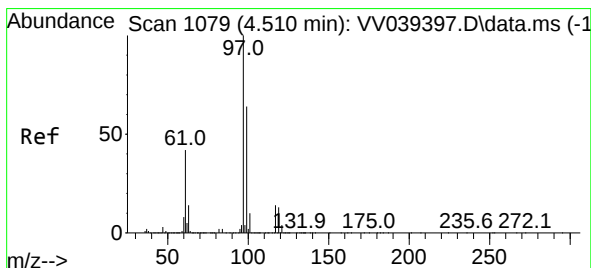
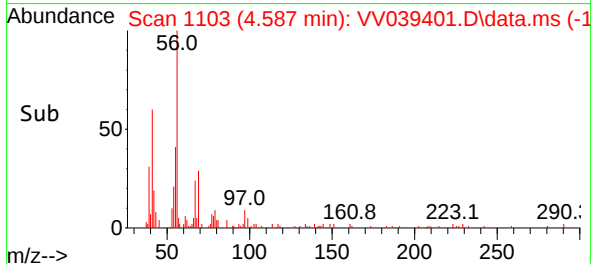
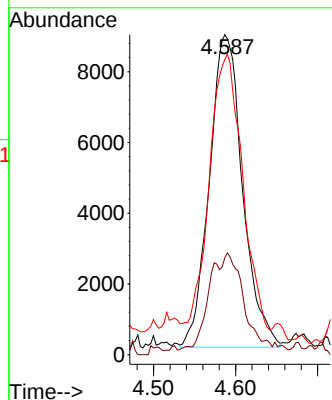
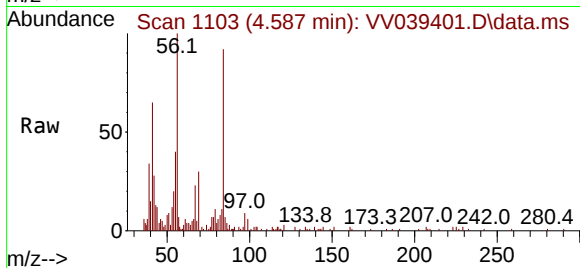
Tgt Ion: 56 Resp: 24899

Ion Ratio Lower Upper

56 100

69 10.6 24.1 36.1#

84 86.4 70.7 106.1



#30

1,1,1-Trichloroethane

Concen: 2.375 ug/L

RT: 4.522 min Scan# 1083

Delta R.T. 0.013 min

Lab File: VV039401.D

Acq: 18 Nov 2025 11:35

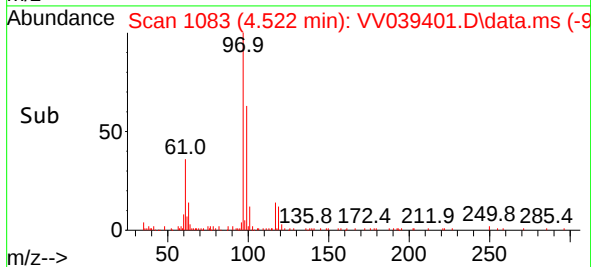
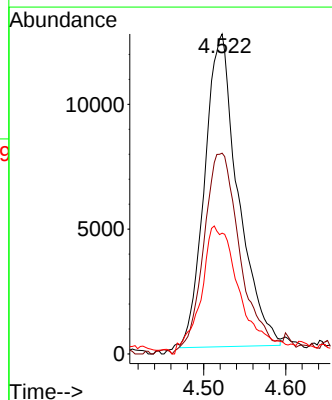
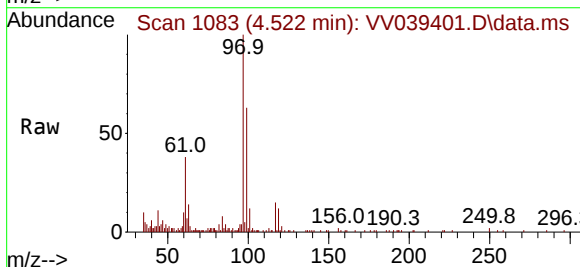
Tgt Ion: 97 Resp: 35453

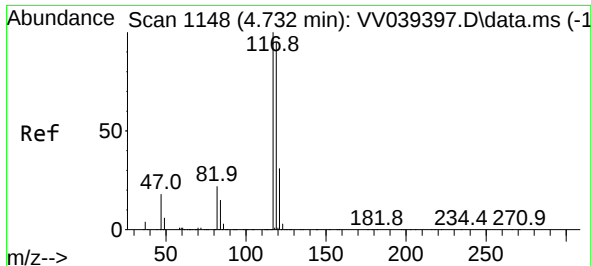
Ion Ratio Lower Upper

97 100

99 70.4 51.6 77.4

61 19.3 34.5 51.7#

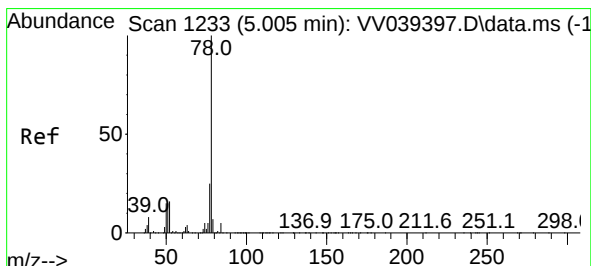
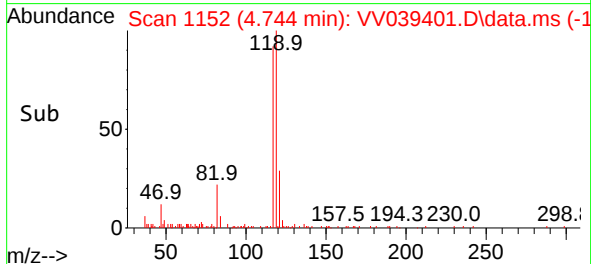
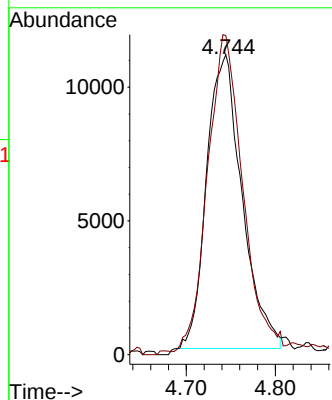
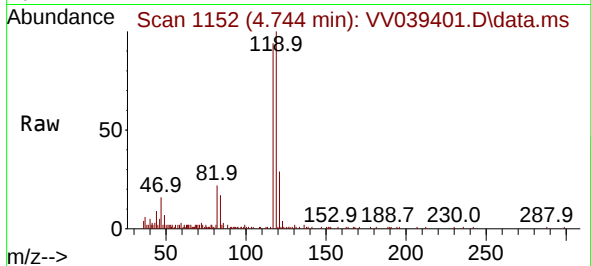




#31
Carbon tetrachloride
Concen: 2.211 ug/L
RT: 4.744 min Scan# 1148
Delta R.T. 0.013 min
Lab File: VV039401.D
Acq: 18 Nov 2025 11:35

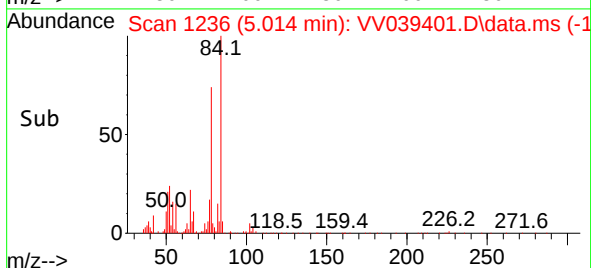
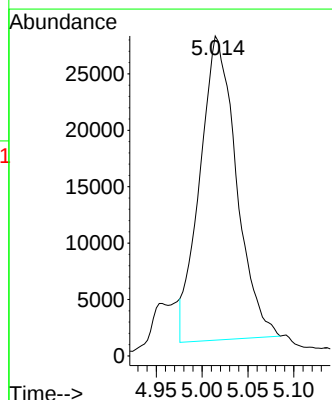
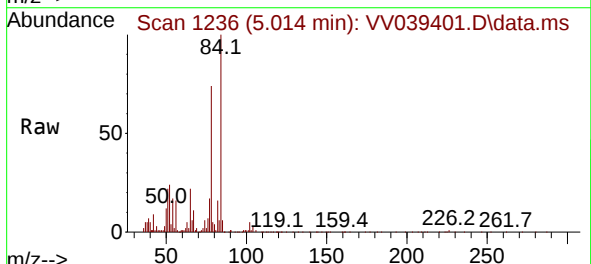
Instrument : MSVOA_V
ClientSampleId : MDL-MED-SOIL-QT4-2025-08

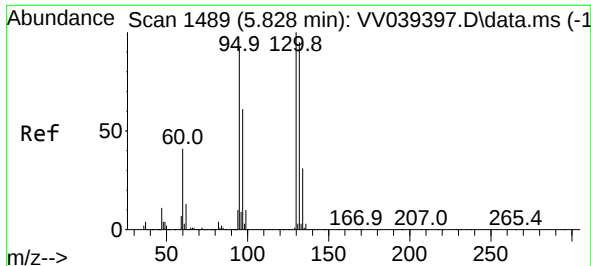
Tgt Ion:117 Resp: 30392
Ion Ratio Lower Upper
117 100
119 106.3 76.7 115.1



#33
Benzene
Concen: 2.264 ug/L
RT: 5.014 min Scan# 1236
Delta R.T. 0.010 min
Lab File: VV039401.D
Acq: 18 Nov 2025 11:35

Tgt Ion: 78 Resp: 74622





#34

Trichloroethene

Concen: 2.402 ug/L

RT: 5.847 min Scan# 1489

Delta R.T. 0.019 min

Lab File: VV039401.D

Acq: 18 Nov 2025 11:35

Instrument :

MSVOA_V

ClientSampleId :

MDL-MED-SOIL-QT4-2025-08

Tgt Ion: 95 Resp: 21383

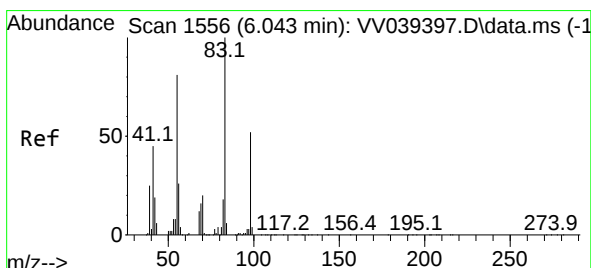
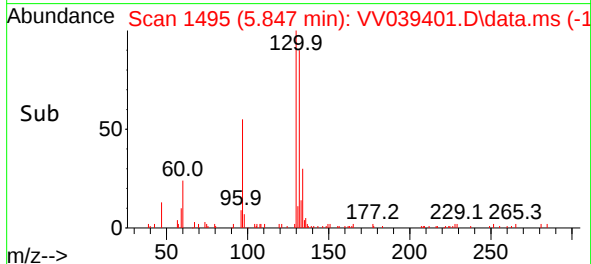
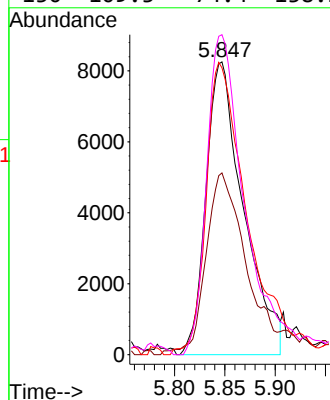
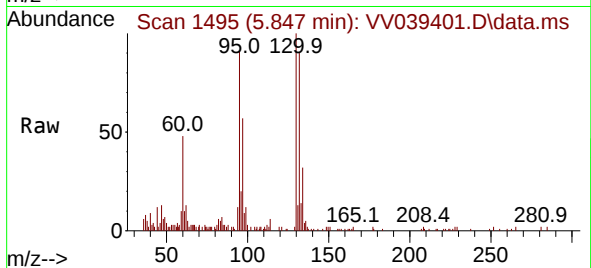
Ion Ratio Lower Upper

95 100

97 62.1 44.4 82.5

132 98.0 71.9 133.5

130 109.3 74.4 138.2



#35

Methylcyclohexane

Concen: 1.980 ug/L

RT: 6.046 min Scan# 1557

Delta R.T. 0.003 min

Lab File: VV039401.D

Acq: 18 Nov 2025 11:35

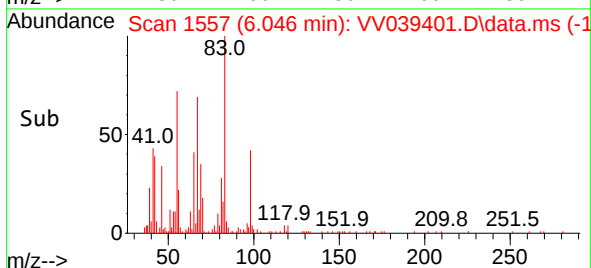
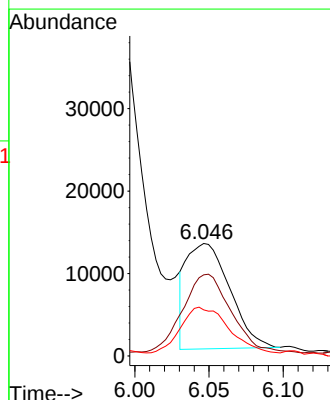
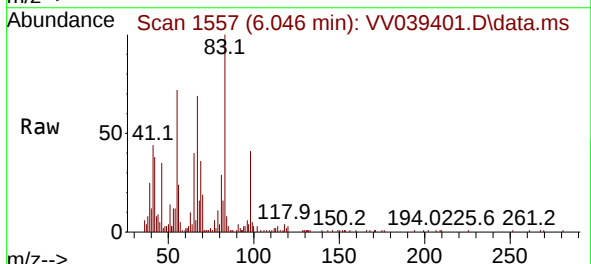
Tgt Ion: 83 Resp: 25908

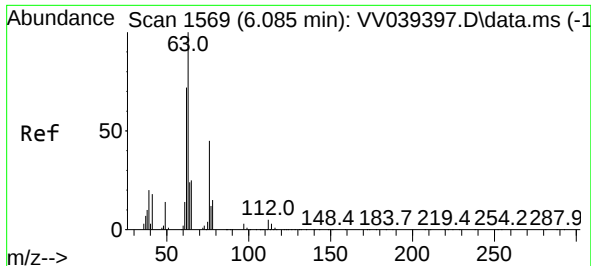
Ion Ratio Lower Upper

83 100

55 89.8 62.5 93.7

98 54.1 39.2 58.8

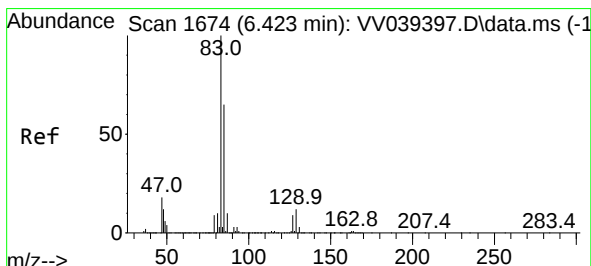
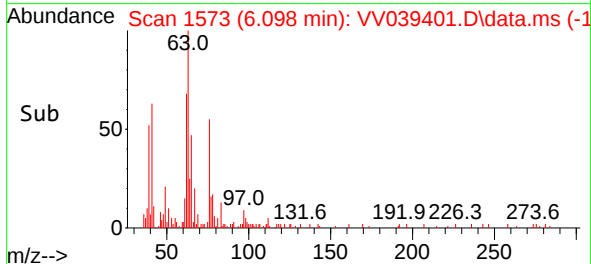
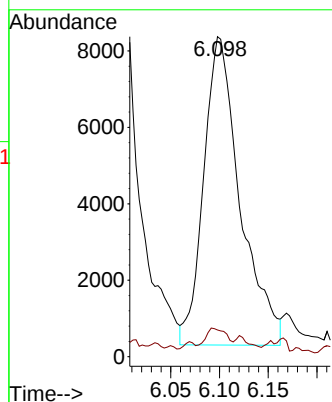
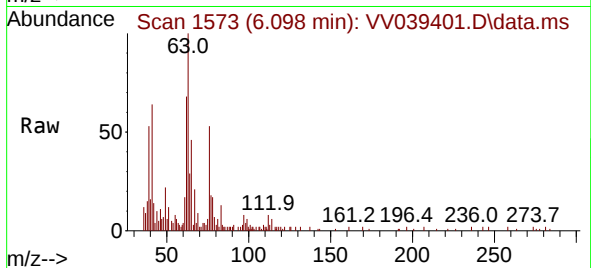




#37
1,2-Dichloropropane
Concen: 2.250 ug/L
RT: 6.098 min Scan# 1573
Delta R.T. 0.013 min
Lab File: VV039401.D
Acq: 18 Nov 2025 11:35

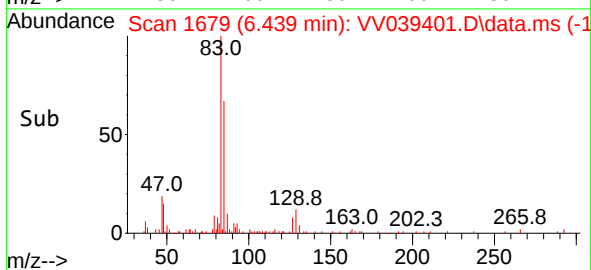
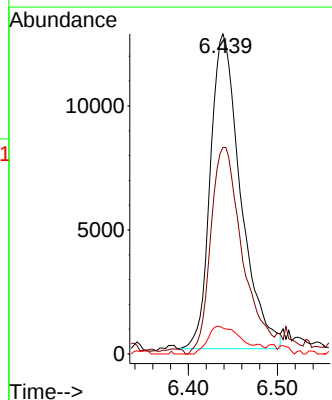
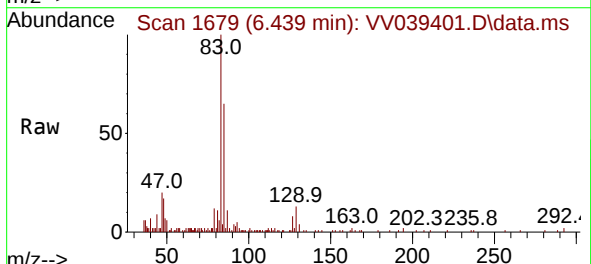
Instrument : MSVOA_V
ClientSampleId : MDL-MED-SOIL-QT4-2025-08

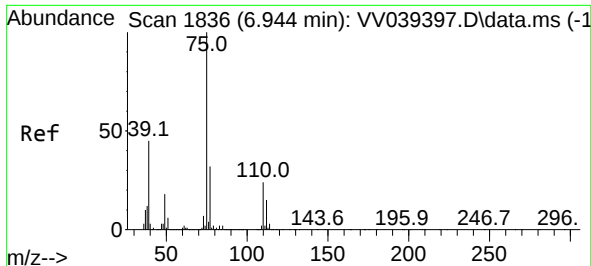
Tgt Ion: 63 Resp: 20971
Ion Ratio Lower Upper
63 100
112 4.3 3.7 5.5



#38
Bromodichloromethane
Concen: 2.315 ug/L
RT: 6.439 min Scan# 1679
Delta R.T. 0.016 min
Lab File: VV039401.D
Acq: 18 Nov 2025 11:35

Tgt Ion: 83 Resp: 29993
Ion Ratio Lower Upper
83 100
85 64.6 44.9 83.5
127 8.1 7.4 11.0





#39

cis-1,3-Dichloropropene

Concen: 1.968 ug/L

RT: 6.963 min Scan# 11

Delta R.T. 0.019 min

Lab File: VV039401.D

Acq: 18 Nov 2025 11:35

Instrument :

MSVOA_V

ClientSampleId :

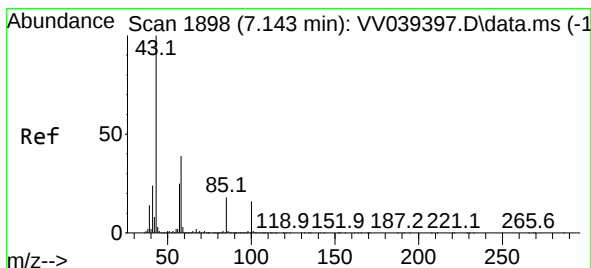
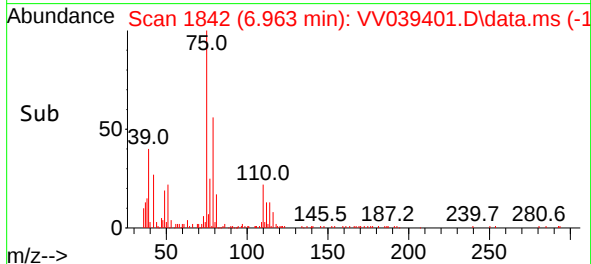
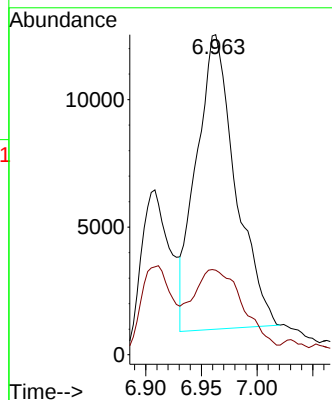
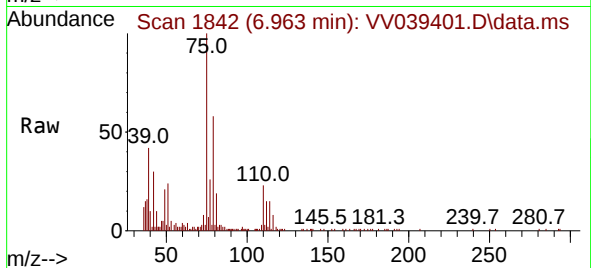
MDL-MED-SOIL-QT4-2025-08

Tgt Ion: 75 Resp: 28251

Ion Ratio Lower Upper

75 100

77 26.4 22.3 41.5



#40

4-Methyl-2-pentanone

Concen: 3.791 ug/L

RT: 7.159 min Scan# 1903

Delta R.T. 0.016 min

Lab File: VV039401.D

Acq: 18 Nov 2025 11:35

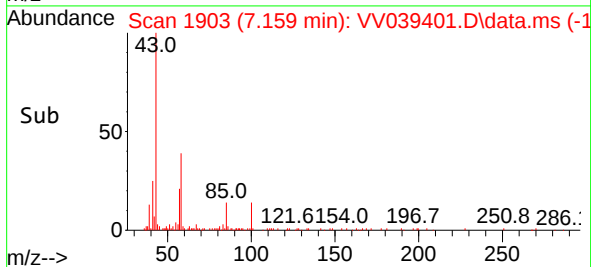
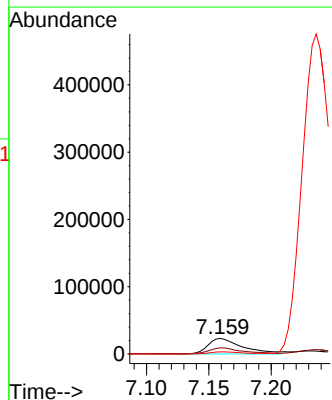
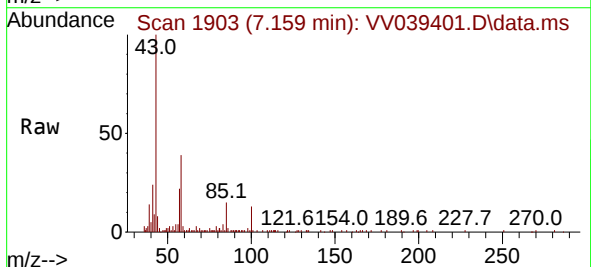
Tgt Ion: 43 Resp: 44418

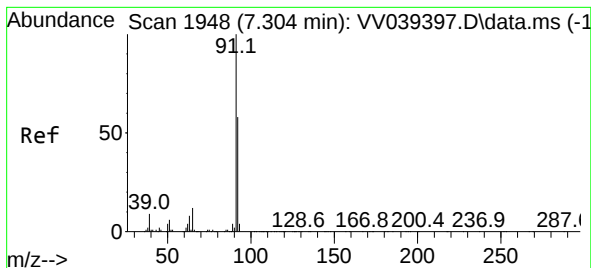
Ion Ratio Lower Upper

43 100

58 36.6 30.8 46.2

100 13.0 12.5 18.7





#42

Toluene

Concen: 2.419 ug/L

RT: 7.316 min Scan# 1948

Delta R.T. 0.013 min

Lab File: VV039401.D

Acq: 18 Nov 2025 11:35

Instrument :

MSVOA_V

ClientSampleId :

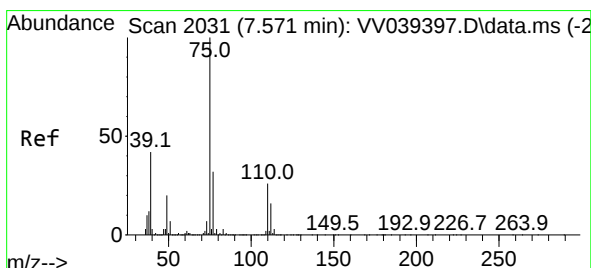
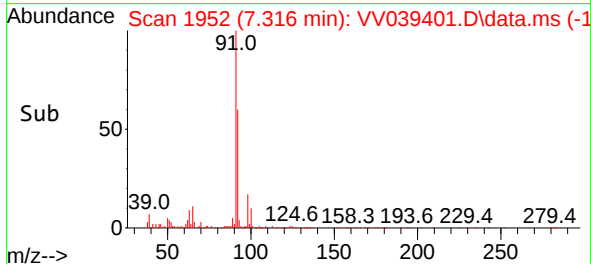
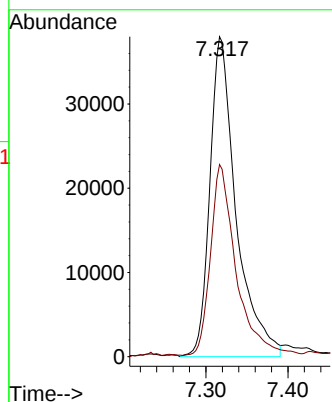
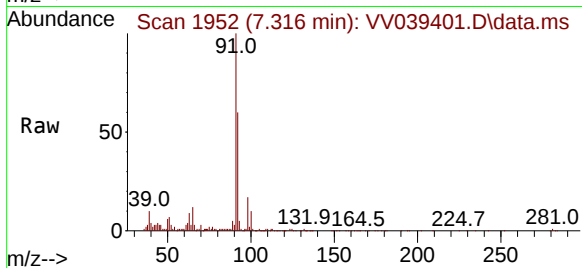
MDL-MED-SOIL-QT4-2025-08

Tgt Ion: 91 Resp: 84483

Ion Ratio Lower Upper

91 100

92 60.1 40.4 75.0



#44

trans-1,3-Dichloropropene

Concen: 2.077 ug/L

RT: 7.583 min Scan# 2035

Delta R.T. 0.013 min

Lab File: VV039401.D

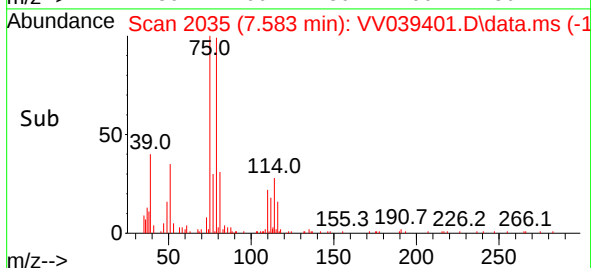
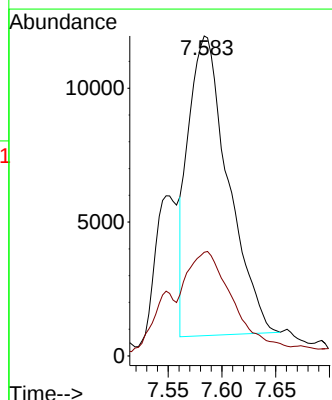
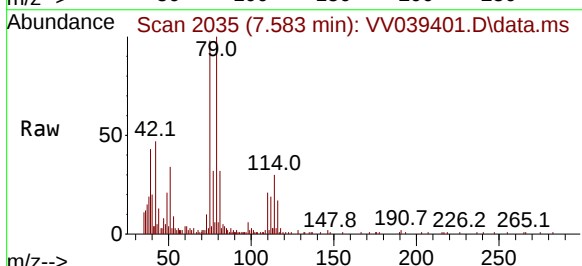
Acq: 18 Nov 2025 11:35

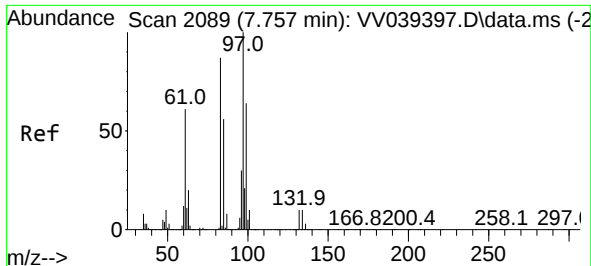
Tgt Ion: 75 Resp: 28729

Ion Ratio Lower Upper

75 100

77 32.4 23.0 42.6

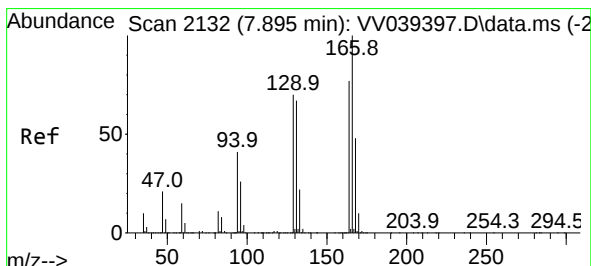
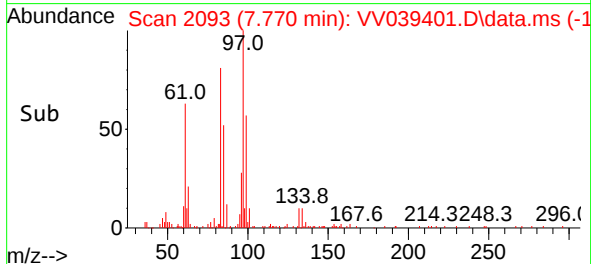
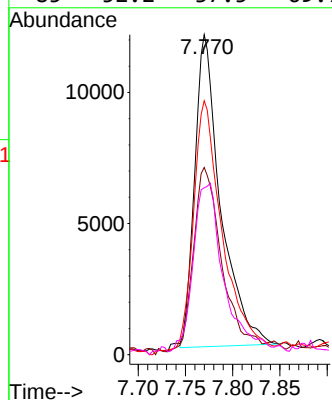
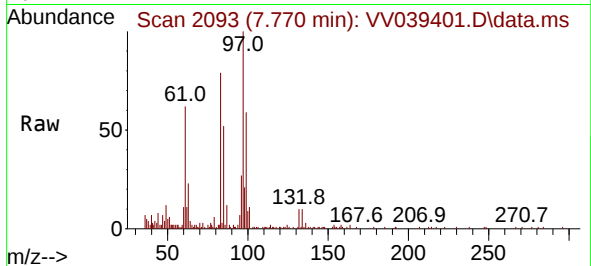




#45
1,1,2-Trichloroethane
Concen: 2.346 ug/L
RT: 7.770 min Scan# 2089
Delta R.T. 0.013 min
Lab File: VV039401.D
Acq: 18 Nov 2025 11:35

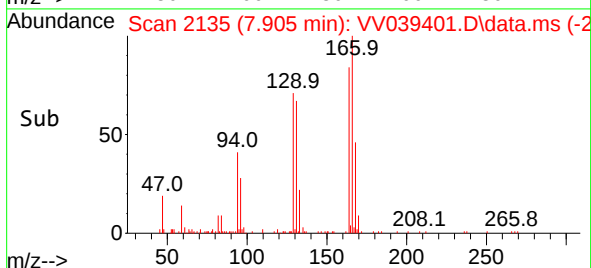
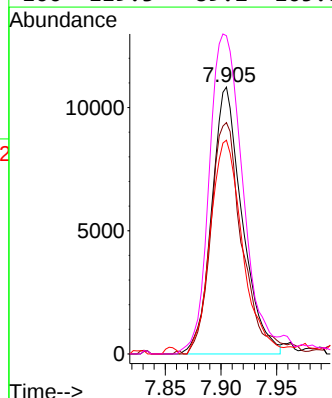
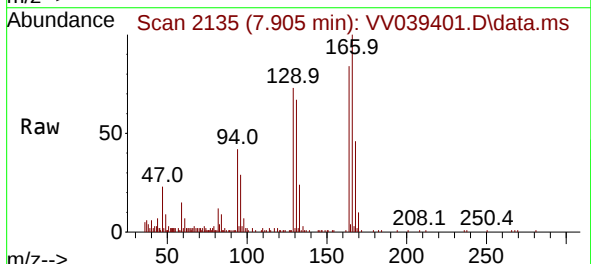
Instrument : MSVOA_V
ClientSampleId : MDL-MED-SOIL-QT4-2025-08

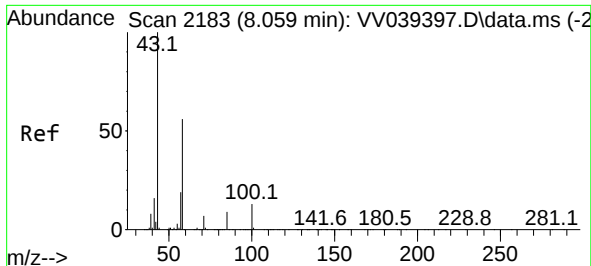
Tgt Ion:	97	Resp:	22742
Ion	Ratio	Lower	Upper
97	100		
99	58.5	43.7	81.1
83	79.4	59.1	109.9
85	52.2	37.5	69.7



#46
Tetrachloroethene
Concen: 2.531 ug/L
RT: 7.905 min Scan# 2135
Delta R.T. 0.009 min
Lab File: VV039401.D
Acq: 18 Nov 2025 11:35

Tgt Ion:	164	Resp:	20697
Ion	Ratio	Lower	Upper
164	100		
129	86.7	62.0	115.2
131	80.1	59.1	109.7
166	119.3	89.2	165.8

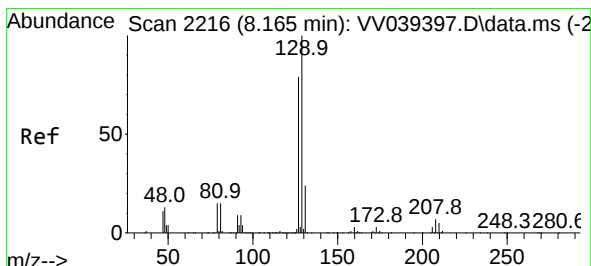
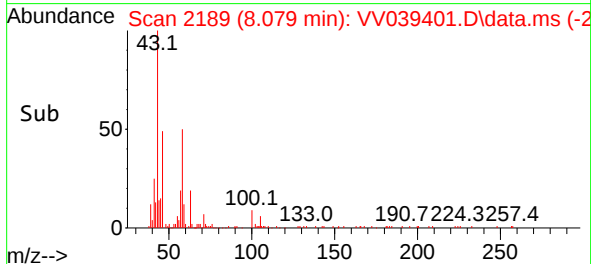
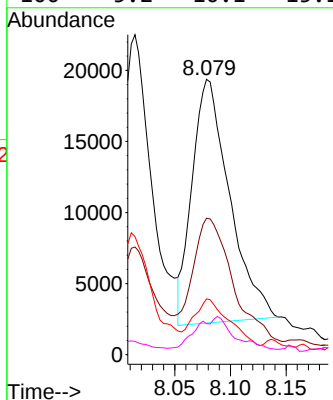
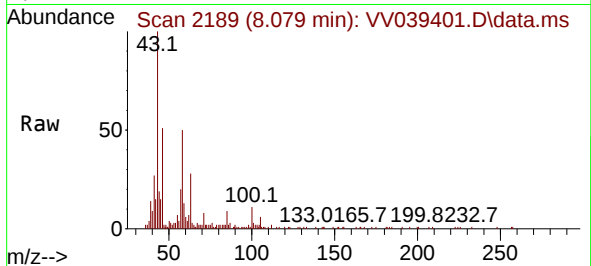




#48
2-Hexanone
Concen: 4.096 ug/L
RT: 8.079 min Scan# 2183
Delta R.T. 0.019 min
Lab File: VV039401.D
Acq: 18 Nov 2025 11:35

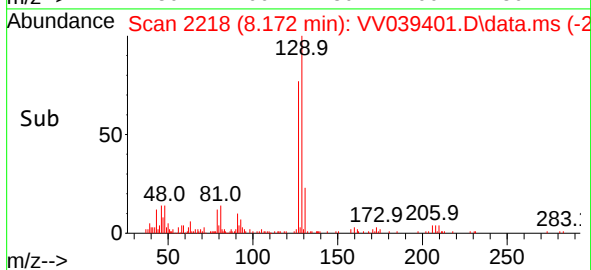
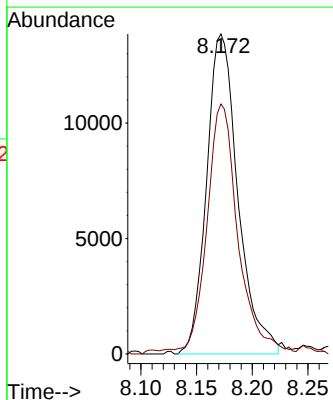
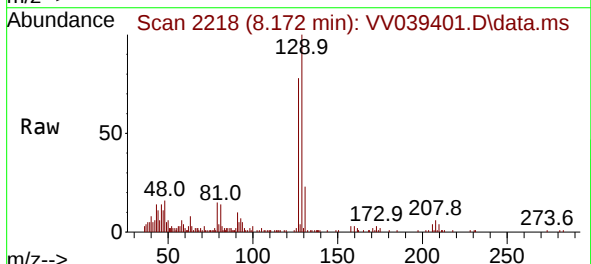
Instrument : MSVOA_V
ClientSampleId : MDL-MED-SOIL-QT4-2025-08

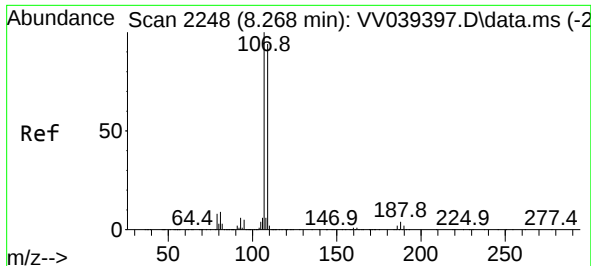
Tgt Ion:	43	Resp:	40094
Ion	Ratio	Lower	Upper
43	100		
58	54.9	45.0	67.4
57	21.1	15.0	22.6
100	5.2	10.1	15.1



#49
Dibromochloromethane
Concen: 2.460 ug/L
RT: 8.172 min Scan# 2218
Delta R.T. 0.006 min
Lab File: VV039401.D
Acq: 18 Nov 2025 11:35

Tgt Ion:	129	Resp:	27237
Ion	Ratio	Lower	Upper
129	100		
127	78.1	54.8	101.8





#50

1,2-Dibromoethane

Concen: 2.433 ug/L

RT: 8.284 min Scan# 21

Delta R.T. 0.016 min

Lab File: VV039401.D

Acq: 18 Nov 2025 11:35

Instrument :

MSVOA_V

ClientSampleId :

MDL-MED-SOIL-QT4-2025-08

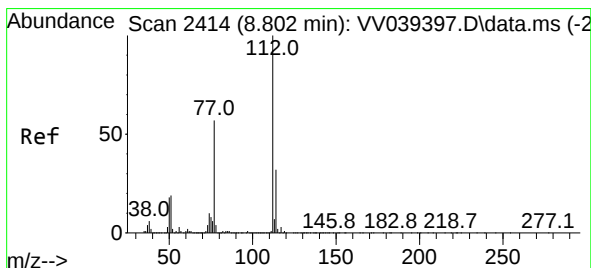
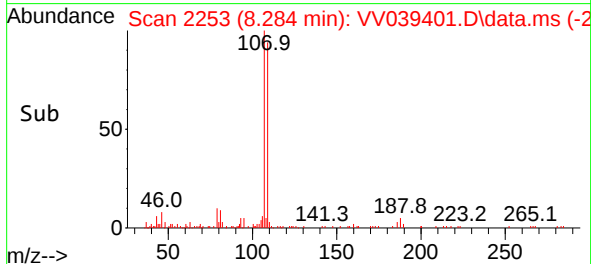
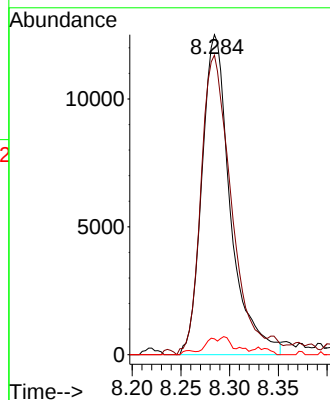
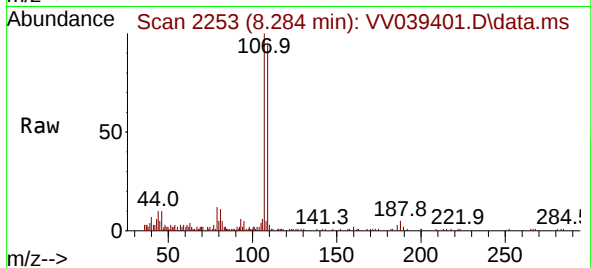
Tgt Ion:107 Resp: 25408

Ion Ratio Lower Upper

107 100

109 93.6 65.0 120.8

188 5.0 3.2 4.8#



#51

Chlorobenzene

Concen: 2.427 ug/L

RT: 8.808 min Scan# 2416

Delta R.T. 0.006 min

Lab File: VV039401.D

Acq: 18 Nov 2025 11:35

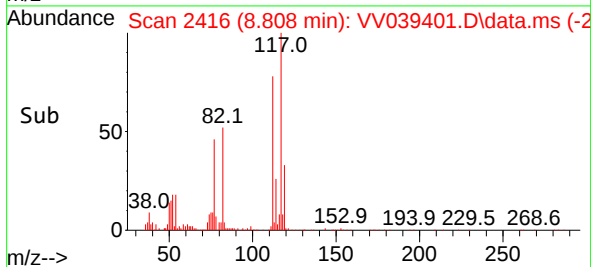
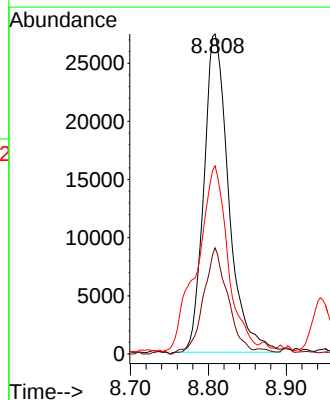
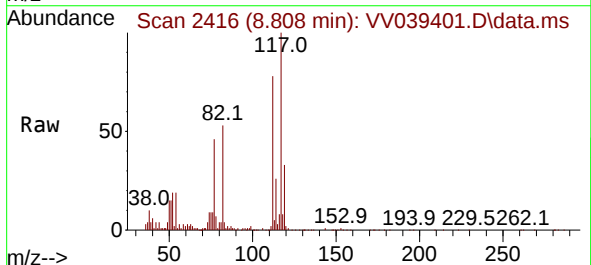
Tgt Ion:112 Resp: 60752

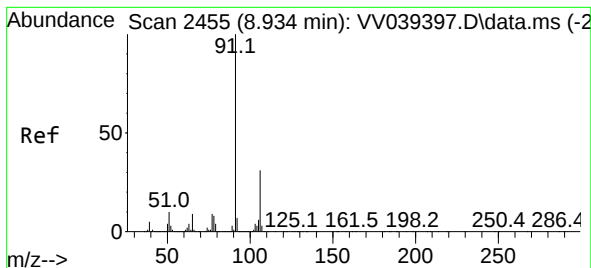
Ion Ratio Lower Upper

112 100

114 33.1 22.4 41.6

77 58.8 45.1 67.7





#52

Ethylbenzene

Concen: 2.111 ug/L

RT: 8.943 min Scan# 2455

Delta R.T. 0.009 min

Lab File: VV039401.D

Acq: 18 Nov 2025 11:35

Instrument :

MSVOA_V

ClientSampleId :

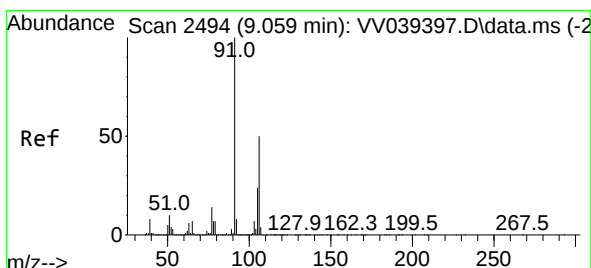
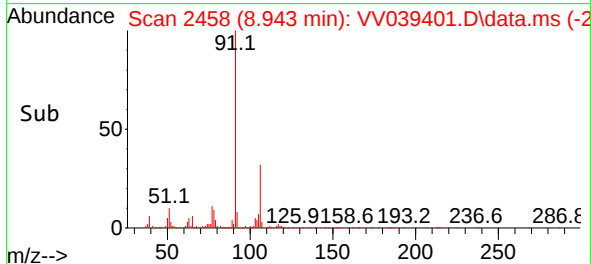
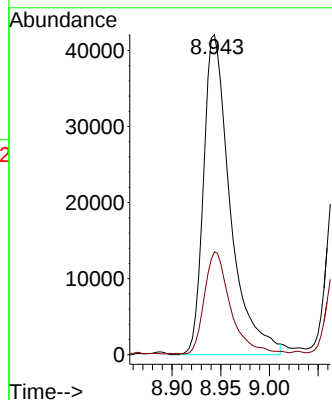
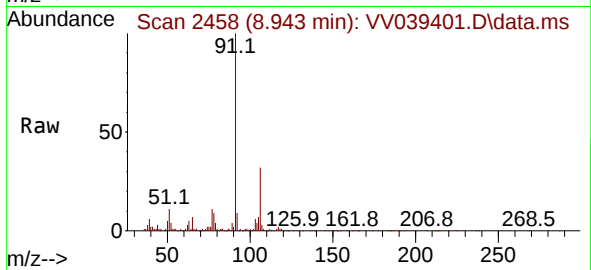
MDL-MED-SOIL-QT4-2025-08

Tgt Ion: 91 Resp: 80126

Ion Ratio Lower Upper

91 100

106 32.1 21.8 40.4



#53

m,p-Xylene

Concen: 1.887 ug/L

RT: 9.072 min Scan# 2498

Delta R.T. 0.013 min

Lab File: VV039401.D

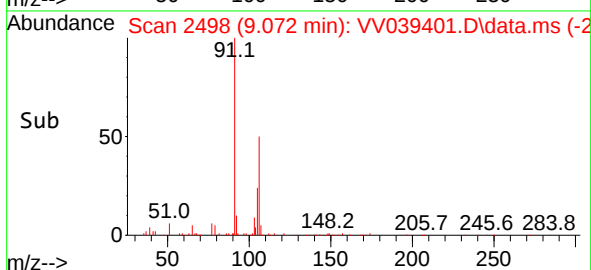
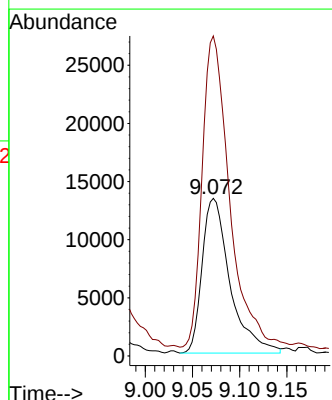
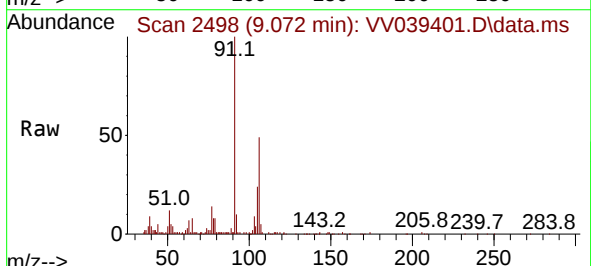
Acq: 18 Nov 2025 11:35

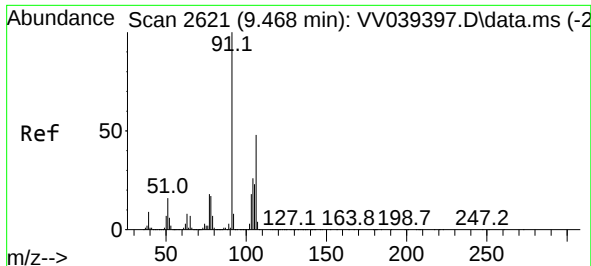
Tgt Ion: 106 Resp: 27417

Ion Ratio Lower Upper

106 100

91 203.1 141.1 262.1

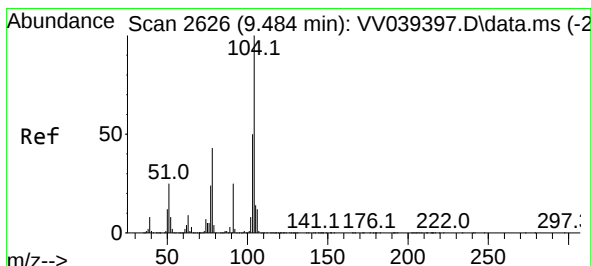
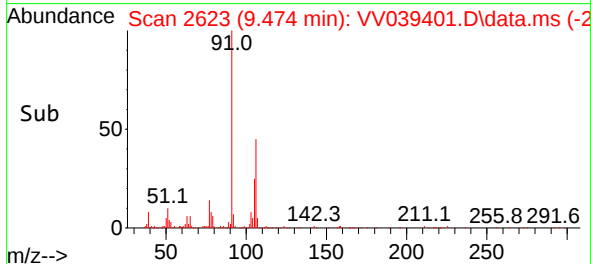
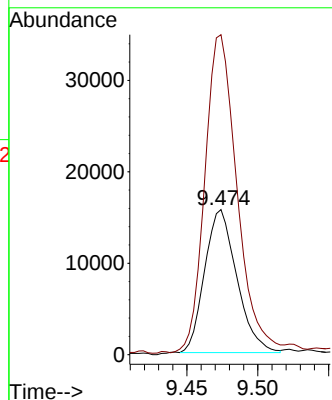
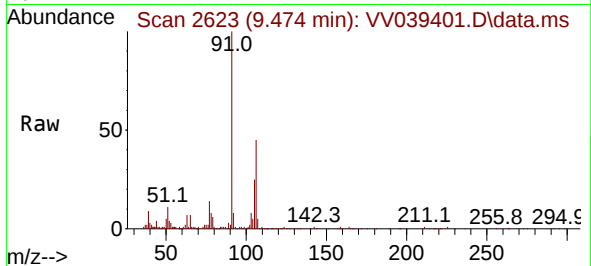




#54
o-Xylene
Concen: 1.781 ug/L
RT: 9.474 min Scan# 2623
Delta R.T. 0.006 min
Lab File: VV039401.D
Acq: 18 Nov 2025 11:35

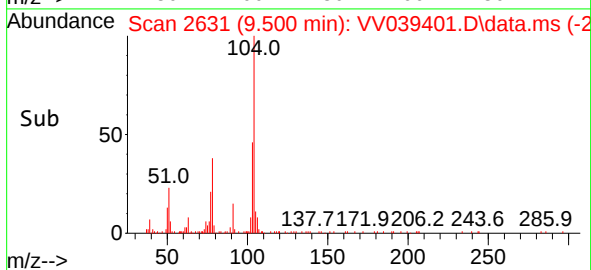
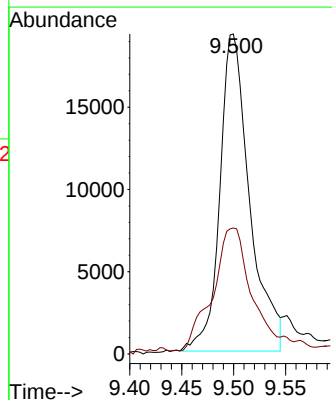
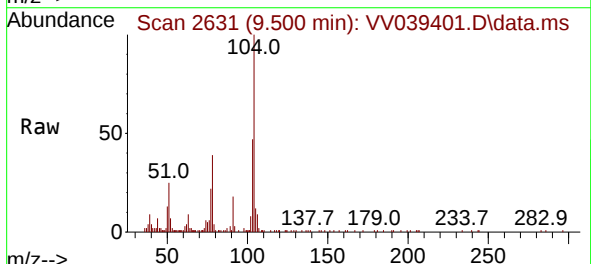
Instrument :
MSVOA_V
ClientSampleId :
MDL-MED-SOIL-QT4-2025-08

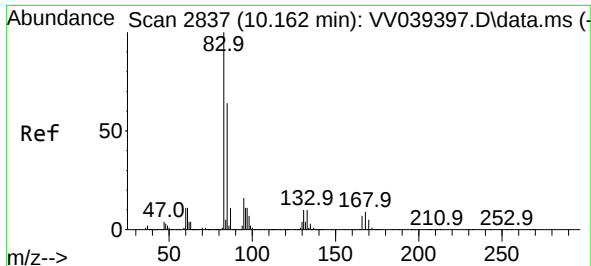
Tgt Ion:106 Resp: 24728
Ion Ratio Lower Upper
106 100
91 220.5 149.0 276.6



#55
Styrene
Concen: 1.582 ug/L
RT: 9.500 min Scan# 2631
Delta R.T. 0.016 min
Lab File: VV039401.D
Acq: 18 Nov 2025 11:35

Tgt Ion:104 Resp: 38627
Ion Ratio Lower Upper
104 100
78 39.3 30.5 56.7





#57

1,1,2,2-Tetrachloroethane

Concen: 2.722 ug/L

RT: 10.165 min Scan# 2837

Delta R.T. 0.003 min

Lab File: VV039401.D

Acq: 18 Nov 2025 11:35

Instrument :

MSVOA_V

ClientSampleId :

MDL-MED-SOIL-QT4-2025-08

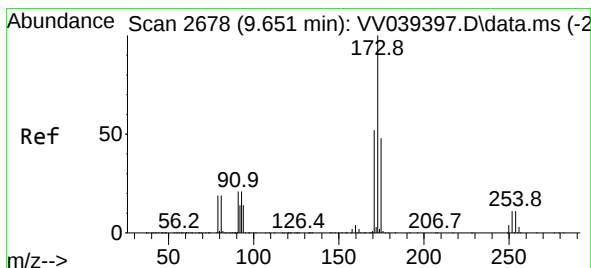
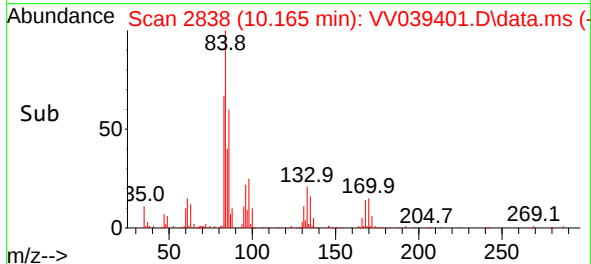
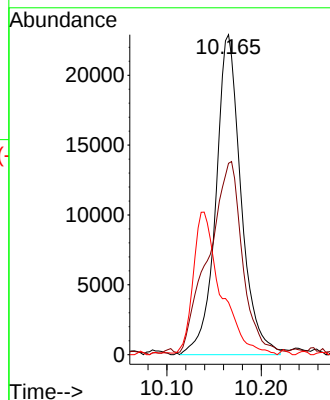
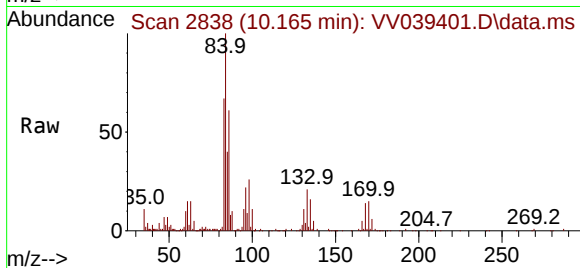
Tgt Ion: 83 Resp: 42400

Ion Ratio Lower Upper

83 100

85 59.8 46.1 85.5

131 16.4 8.3 12.5#



#59

Bromoform

Concen: 2.686 ug/L

RT: 9.657 min Scan# 2680

Delta R.T. 0.006 min

Lab File: VV039401.D

Acq: 18 Nov 2025 11:35

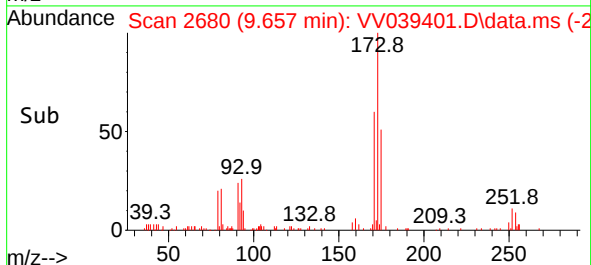
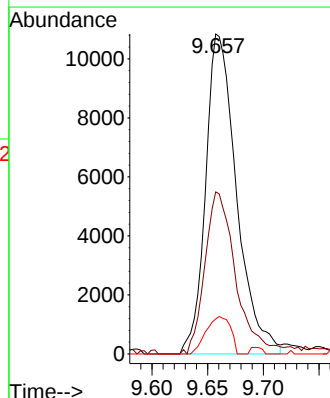
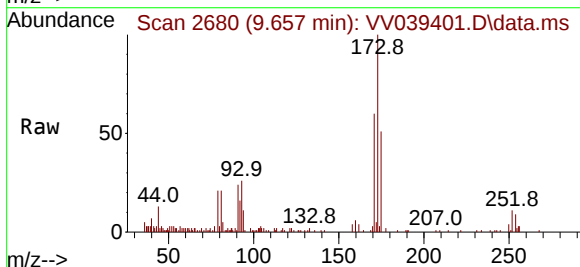
Tgt Ion: 173 Resp: 20976

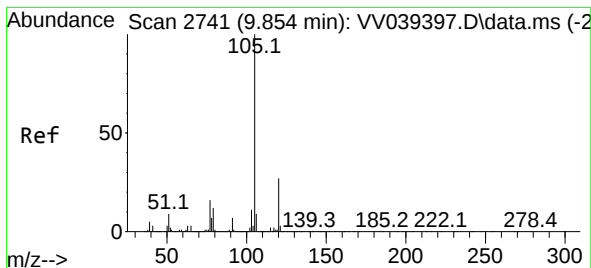
Ion Ratio Lower Upper

173 100

175 49.2 38.5 57.7

254 9.2 8.4 12.6





#60

Isopropylbenzene

Concen: 2.184 ug/L

RT: 9.860 min Scan# 21

Delta R.T. 0.006 min

Lab File: VV039401.D

Acq: 18 Nov 2025 11:35

Instrument :

MSVOA_V

ClientSampleId :

MDL-MED-SOIL-QT4-2025-08

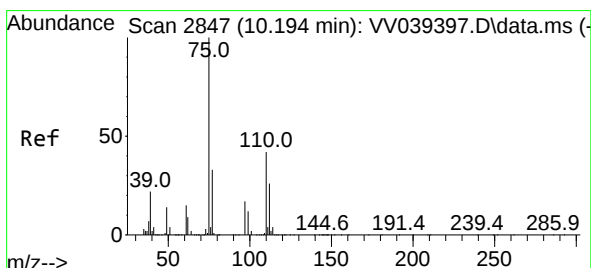
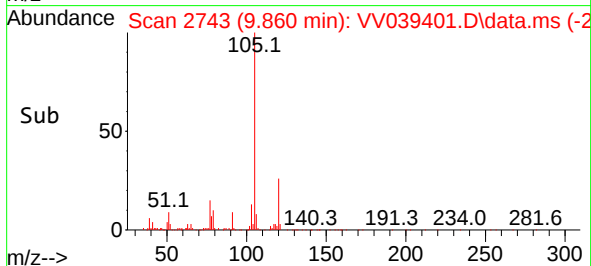
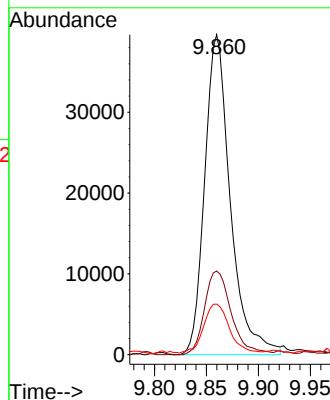
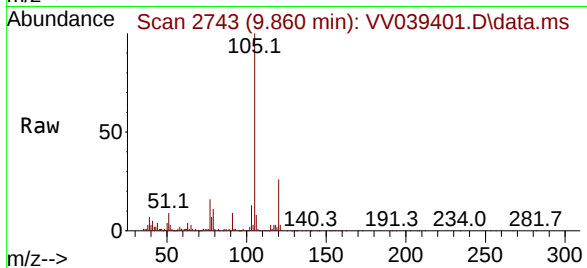
Tgt Ion:105 Resp: 67829

Ion Ratio Lower Upper

105 100

120 27.4 21.4 32.0

77 15.1 12.3 18.5



#61

1,2,3-Trichloropropane

Concen: 3.135 ug/L

RT: 10.201 min Scan# 2849

Delta R.T. 0.006 min

Lab File: VV039401.D

Acq: 18 Nov 2025 11:35

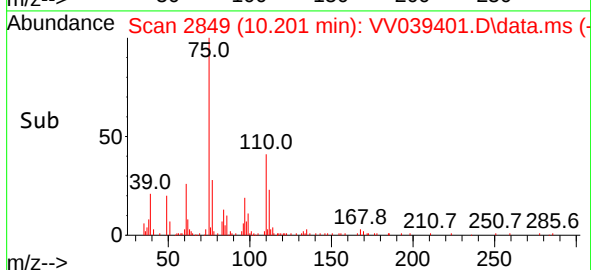
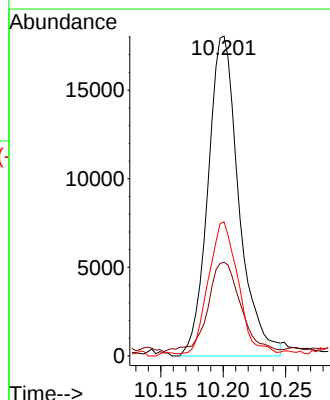
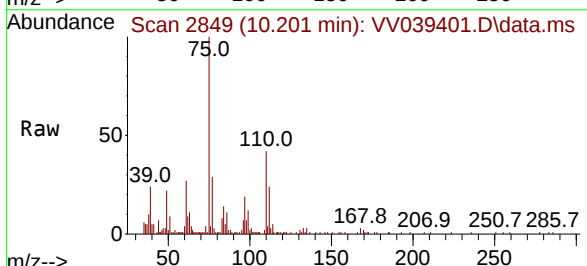
Tgt Ion: 75 Resp: 31190

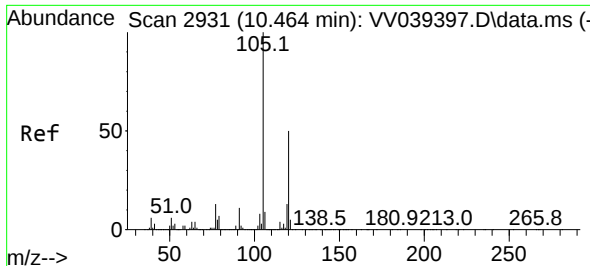
Ion Ratio Lower Upper

75 100

77 29.5 25.7 38.5

110 41.2 32.6 49.0

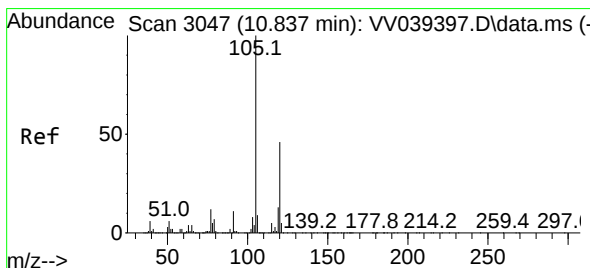
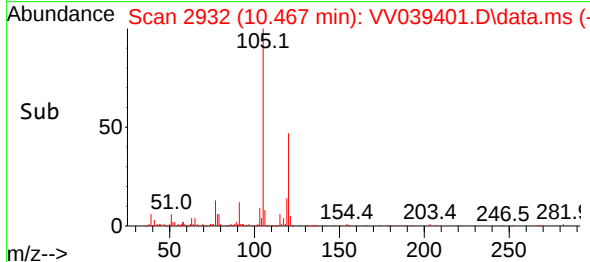
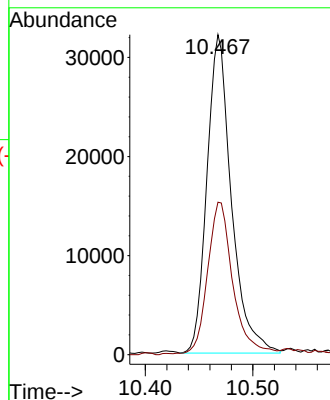
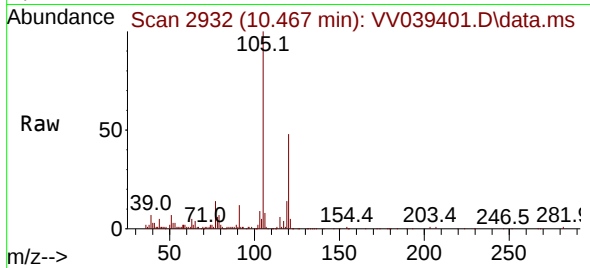




#62
 1,3,5-Trimethylbenzene
 Concen: 2.098 ug/L
 RT: 10.467 min Scan# 2931
 Delta R.T. 0.003 min
 Lab File: VV039401.D
 Acq: 18 Nov 2025 11:35

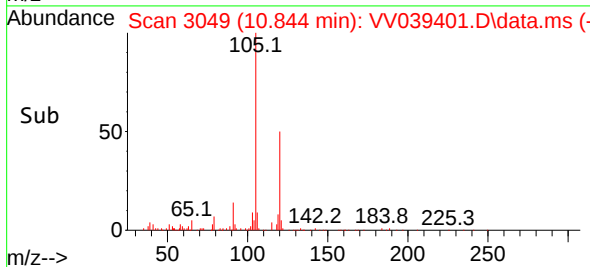
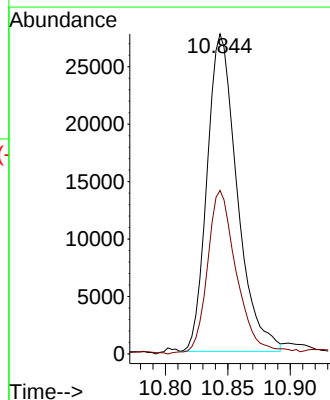
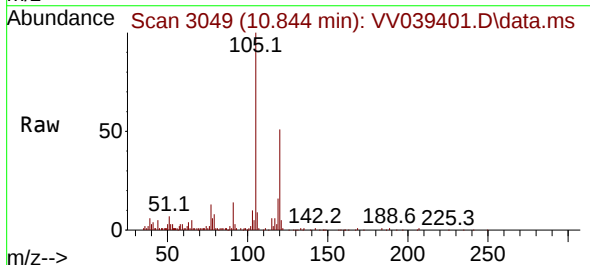
Instrument :
 MSVOA_V
 ClientSampleId :
 MDL-MED-SOIL-QT4-2025-08

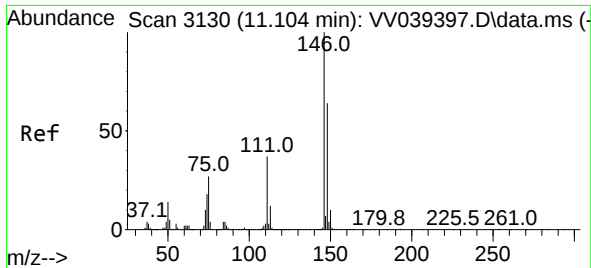
Tgt Ion:105 Resp: 50886
 Ion Ratio Lower Upper
 105 100
 120 48.9 39.8 59.8



#63
 1,2,4-Trimethylbenzene
 Concen: 1.945 ug/L
 RT: 10.844 min Scan# 3049
 Delta R.T. 0.006 min
 Lab File: VV039401.D
 Acq: 18 Nov 2025 11:35

Tgt Ion:105 Resp: 46381
 Ion Ratio Lower Upper
 105 100
 120 49.4 37.4 56.2

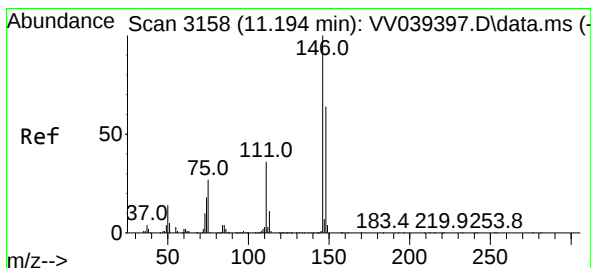
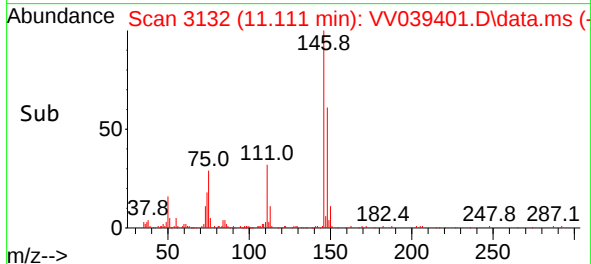
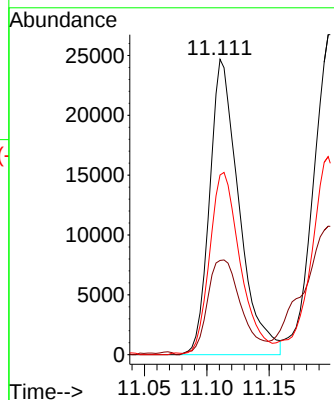
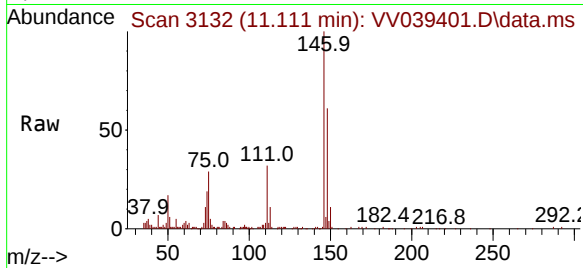




#64
1,3-Dichlorobenzene
Concen: 2.398 ug/L
RT: 11.111 min Scan# 3132
Delta R.T. 0.006 min
Lab File: VV039401.D
Acq: 18 Nov 2025 11:35

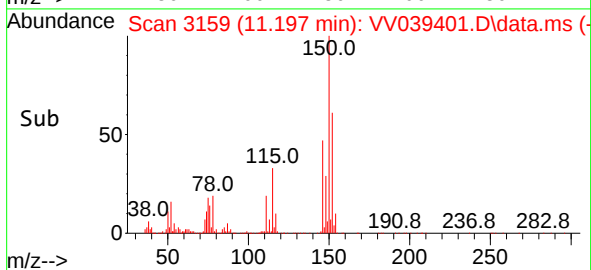
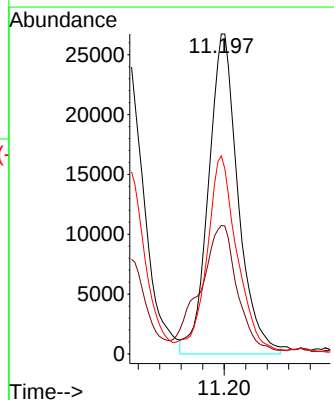
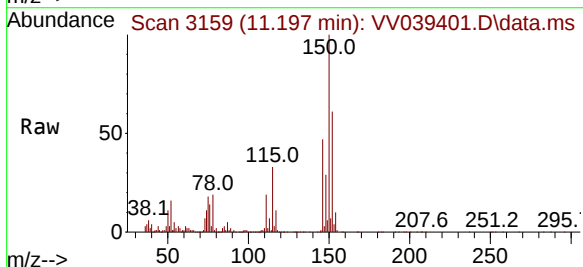
Instrument :
MSVOA_V
ClientSampleId :
MDL-MED-SOIL-QT4-2025-08

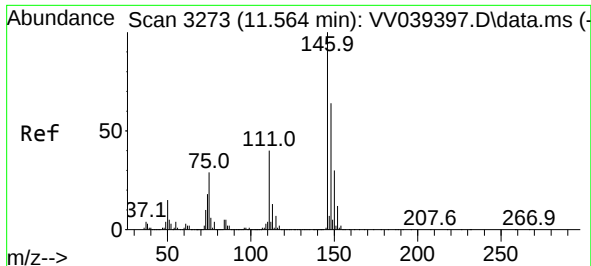
Tgt Ion:	146	Resp:	40556
Ion Ratio	Lower	Upper	
146	100		
111	31.9	26.5	49.3
148	60.8	44.6	82.8



#65
1,4-Dichlorobenzene
Concen: 2.808 ug/L
RT: 11.197 min Scan# 3159
Delta R.T. 0.003 min
Lab File: VV039401.D
Acq: 18 Nov 2025 11:35

Tgt Ion:	146	Resp:	51154
Ion Ratio	Lower	Upper	
146	100		
111	40.2	25.6	47.4
148	61.9	44.9	83.5

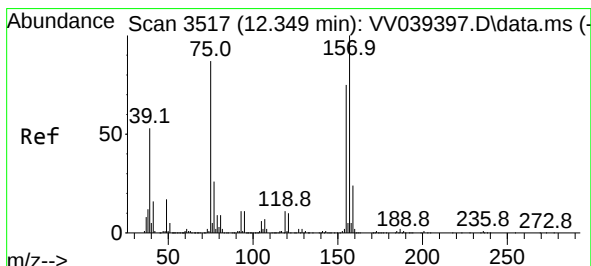
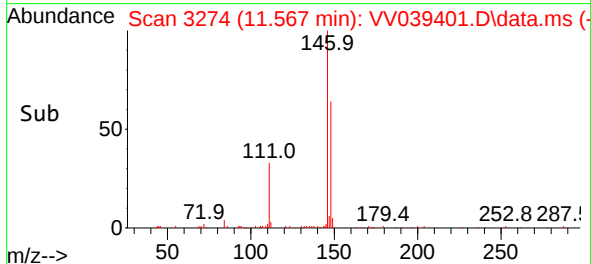
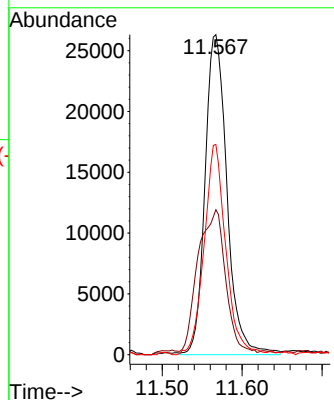
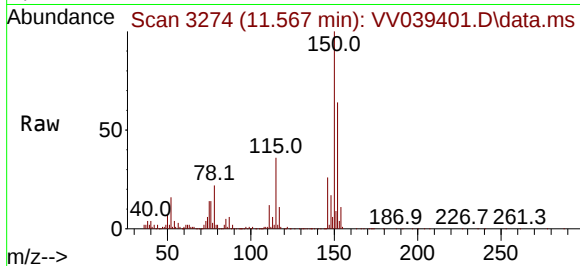




#67
1,2-Dichlorobenzene
Concen: 2.985 ug/L
RT: 11.567 min Scan# 311
Delta R.T. 0.003 min
Lab File: VV039401.D
Acq: 18 Nov 2025 11:35

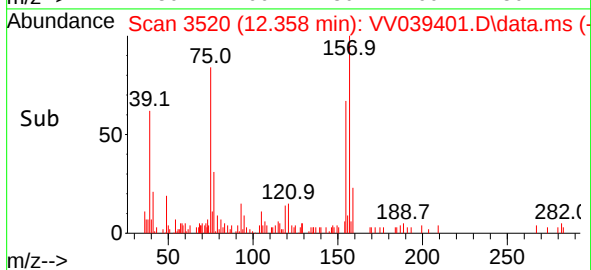
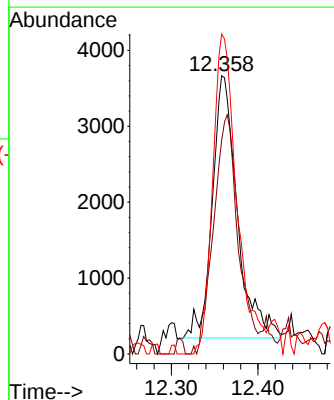
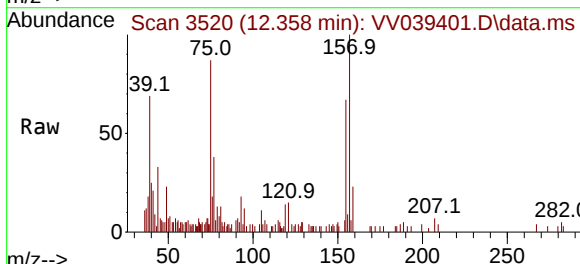
Instrument :
MSVOA_V
ClientSampleId :
MDL-MED-SOIL-QT4-2025-08

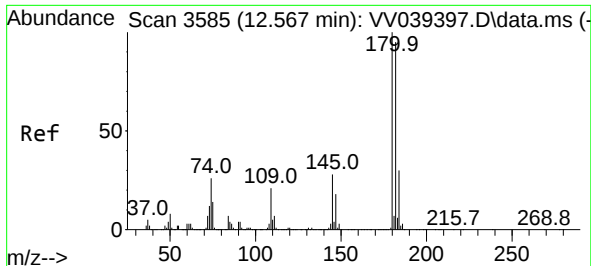
Tgt Ion:	146	Resp:	50417
Ion	Ratio	Lower	Upper
146	100		
111	45.3	32.2	48.2
148	65.7	51.6	77.4



#68
1,2-Dibromo-3-chloropropane
Concen: 2.482 ug/L
RT: 12.358 min Scan# 3520
Delta R.T. 0.009 min
Lab File: VV039401.D
Acq: 18 Nov 2025 11:35

Tgt Ion:	75	Resp:	6933
Ion	Ratio	Lower	Upper
75	100		
155	76.7	73.0	109.4
157	115.0	91.0	136.4

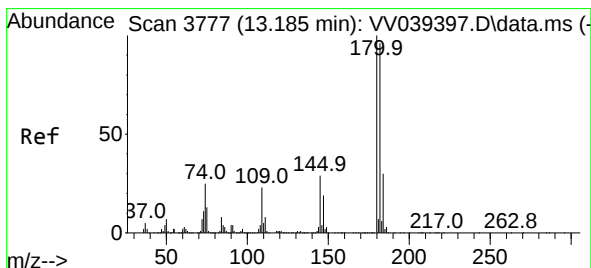
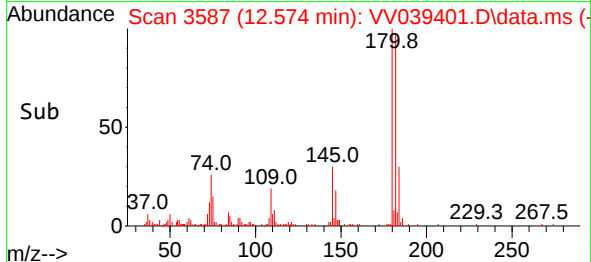
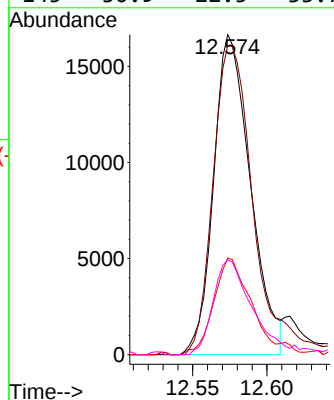
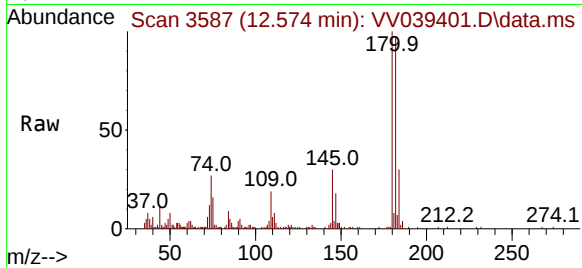




#69
 1,3,5-Trichlorobenzene
 Concen: 2.380 ug/L
 RT: 12.574 min Scan# 3585
 Delta R.T. 0.006 min
 Lab File: VV039401.D
 Acq: 18 Nov 2025 11:35

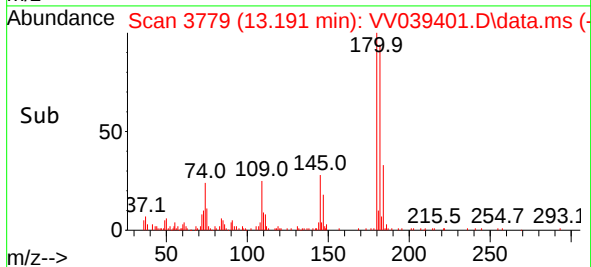
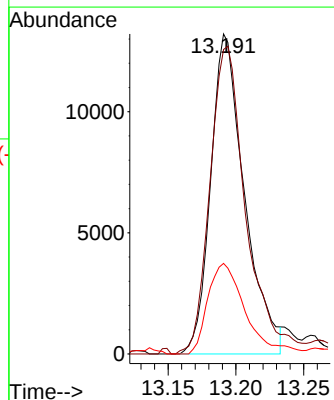
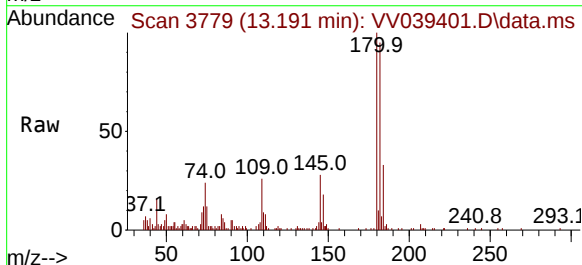
Instrument : MSVOA_V
 ClientSampleId : MDL-MED-SOIL-QT4-2025-08

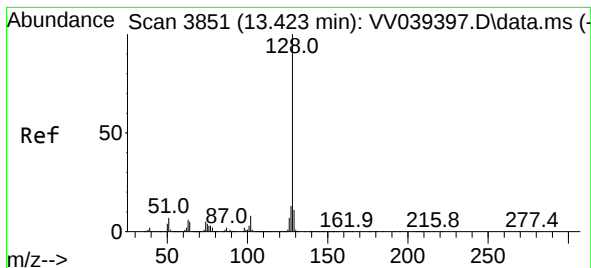
Tgt Ion:	180	Resp:	28662
Ion Ratio	Lower	Upper	
180	100		
182	105.7	75.8	113.8
184	29.9	24.3	36.5
145	30.9	22.5	33.7



#70
 1,2,4-trichlorobenzene
 Concen: 2.181 ug/L
 RT: 13.191 min Scan# 3779
 Delta R.T. 0.006 min
 Lab File: VV039401.D
 Acq: 18 Nov 2025 11:35

Tgt Ion:	180	Resp:	22896
Ion Ratio	Lower	Upper	
180	100		
182	102.5	76.1	114.1
145	31.2	22.5	33.7





#71

Naphthalene

Concen: 1.936 ug/L

RT: 13.432 min Scan# 3851

Delta R.T. 0.009 min

Lab File: VV039401.D

Acq: 18 Nov 2025 11:35

Instrument :

MSVOA_V

ClientSampleId :

MDL-MED-SOIL-QT4-2025-08

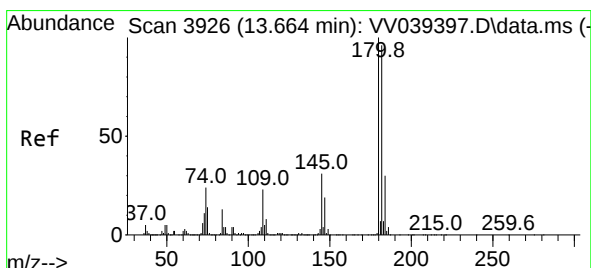
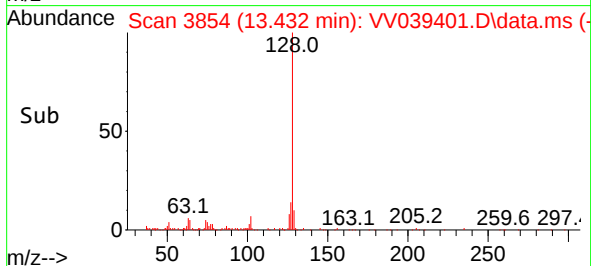
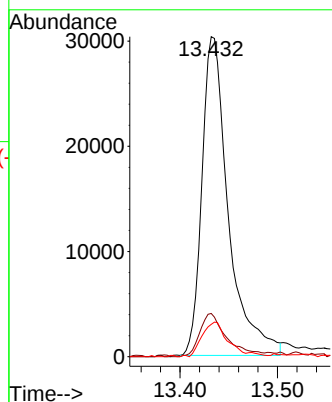
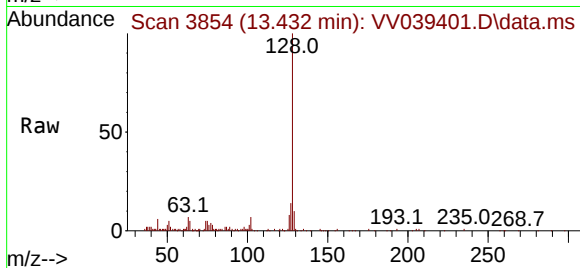
Tgt Ion:128 Resp: 57217

Ion Ratio Lower Upper

128 100

127 13.9 10.6 16.0

129 10.2 8.7 13.1



#72

1,2,3-Trichlorobenzene

Concen: 2.214 ug/L

RT: 13.670 min Scan# 3928

Delta R.T. 0.006 min

Lab File: VV039401.D

Acq: 18 Nov 2025 11:35

Tgt Ion:180 Resp: 24071

Ion Ratio Lower Upper

180 100

182 90.8 76.6 115.0

145 31.4 24.3 36.5

