

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU111825\
 Data File : VU063736.D
 Acq On : 18 Nov 2025 12:11
 Operator : MD/SY
 Sample : Q3589-06
 Misc : 5.00g/5.0mL/100uL/5.0mL/MSVOA_U/MEOH
 ALS Vial : 6 Sample Multiplier: 1

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

Quant Time: Nov 19 04:54:20 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM111725WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Nov 19 04:47:02 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.219	114	312228	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.393	117	301827	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.788	152	151292	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.586	65	121216	44.958	ug/L	0.00
Spiked Amount 50.000	Range 60 - 135		Recovery =	89.920%		
7) Chloroethane-d5	1.894	69	97892	47.127	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	94.260%		
11) 1,1-Dichloroethene-d2	2.544	63	173271	37.075	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	74.140%		
21) 2-Butanone-d5	4.595	46	139671	90.867	ug/L	0.00
Spiked Amount 100.000	Range 40 - 130		Recovery =	90.870%		
24) Chloroform-d	5.029	84	209172	46.239	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	92.480%		
26) 1,2-Dichloroethane-d4	5.672	65	144093	48.440	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	96.880%		
32) Benzene-d6	5.695	84	431554	48.779	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	97.560%		
36) 1,2-Dichloropropane-d6	6.660	67	125401	48.283	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery =	96.560%		
41) Toluene-d8	7.872	98	393078	46.795	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	93.580%		
43) trans-1,3-Dichloroprop...	8.155	79	45863	42.731	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	85.460%		
47) 2-Hexanone-d5	8.611	63	83724	88.661	ug/L	0.00
Spiked Amount 100.000	Range 45 - 130		Recovery =	88.660%		
56) 1,1,2,2-Tetrachloroeth...	10.730	84	179531	47.268	ug/L	0.00
Spiked Amount 50.000	Range 65 - 120		Recovery =	94.540%		
66) 1,2-Dichlorobenzene-d4	12.167	152	142819	50.006	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	100.020%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.374	85	4163	2.291	ug/L	97
3) Chloromethane	1.509	50	5221	2.539	ug/L	95
5) Vinyl chloride	1.589	62	5997	2.509	ug/L #	55
6) Bromomethane	1.840	94	4225	2.789	ug/L	100
8) Chloroethane	1.914	64	4219	2.644	ug/L	89
9) Trichlorofluoromethane	2.116	101	9681	2.568	ug/L	100
10) 1,1,2-Trichloro-1,2,2-...	2.557	101	6563	2.945	ug/L #	84
12) 1,1-Dichloroethene	2.554	96	6508	3.193	ug/L #	1
13) Acetone	2.608	43	9488	4.561	ug/L	96
14) Carbon disulfide	2.766	76	12744	2.400	ug/L	99
15) Methyl Acetate	2.943	43	5988	2.397	ug/L #	79
16) Methylene chloride	3.020	84	6457	2.718	ug/L	98
17) trans-1,2-Dichloroethene	3.329	96	5373	2.473	ug/L	84
18) Methyl tert-butyl Ether	3.338	73	18207	2.476	ug/L	99
19) 1,1-Dichloroethane	3.846	63	9765	2.332	ug/L	88
20) cis-1,2-Dichloroethene	4.640	96	6194	2.476	ug/L	98
22) 2-Butanone	4.701	43	7298	3.158	ug/L	79
23) Bromochloromethane	4.946	128	1853	1.441	ug/L	97
25) Chloroform	5.055	83	12881	2.842	ug/L	97

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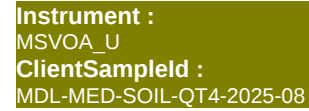
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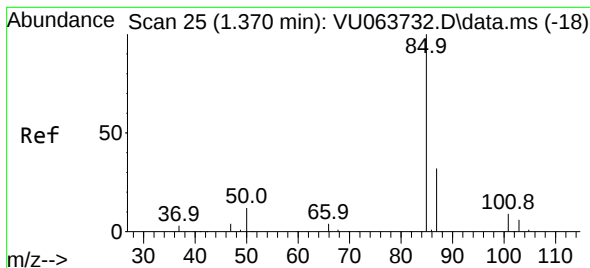
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
27) 1,2-Dichloroethane	5.772	62	8944	2.417	ug/L #	94
29) Cyclohexane	5.354	56	9096	2.395	ug/L	89
30) 1,1,1-Trichloroethane	5.283	97	8843	2.294	ug/L	94
31) Carbon tetrachloride	5.489	117	6373	2.103	ug/L	95
33) Benzene	5.746	78	20613	2.239	ug/L	100
34) Trichloroethene	6.518	95	6458	2.433	ug/L	90
35) Methylcyclohexane	6.734	83	10863	2.788	ug/L	89
37) 1,2-Dichloropropane	6.766	63	6265	2.619	ug/L #	90
38) Bromodichloromethane	7.081	83	7049	2.152	ug/L #	92
39) cis-1,3-Dichloropropene	7.589	75	7581	2.137	ug/L	91
40) 4-Methyl-2-pentanone	7.772	43	15997	4.620	ug/L	98
42) Toluene	7.946	91	25911	2.549	ug/L	98
44) trans-1,3-Dichloropropene	8.187	75	7398	2.389	ug/L	96
45) 1,1,2-Trichloroethane	8.373	97	6646	2.627	ug/L	90
46) Tetrachloroethene	8.528	164	4696	2.314	ug/L	92
48) 2-Hexanone	8.669	43	20683	7.610	ug/L #	93
49) Dibromochloromethane	8.782	129	2993	1.225	ug/L	93
50) 1,2-Dibromoethane	8.897	107	6564	2.472	ug/L	93
51) Chlorobenzene	9.422	112	17277	2.519	ug/L	97
52) Ethylbenzene	9.547	91	29219	2.476	ug/L	95
53) m,p-Xylene	9.672	106	10339	2.299	ug/L	84
54) o-Xylene	10.074	106	10377	2.369	ug/L	95
55) Styrene	10.097	104	15661	2.207	ug/L	88
57) 1,1,2,2-Tetrachloroethane	10.756	83	11327	2.749	ug/L #	92
59) Bromoform	10.264	173	3535	2.057	ug/L #	95
60) 1,2,3-Trichloropropane	10.798	75	8412	2.547	ug/L	93
61) Isopropylbenzene	10.460	105	28187	2.470	ug/L	99
62) 1,3,5-Trimethylbenzene	11.065	105	21891	2.332	ug/L	100
63) 1,2,4-Trimethylbenzene	11.444	105	20841	2.326	ug/L	98
64) 1,3-Dichlorobenzene	11.727	146	13700	2.677	ug/L	91
65) 1,4-Dichlorobenzene	11.814	146	14671	2.799	ug/L	98
67) 1,2-Dichlorobenzene	12.187	146	13985	2.819	ug/L	96
68) 1,2-Dibromo-3-chloropr...	12.971	75	2019	2.476	ug/L #	86
69) 1,3,5-Trichlorobenzene	13.196	180	9480	2.741	ug/L	97
70) 1,2,4-trichlorobenzene	13.820	180	8272	2.869	ug/L	97
71) Naphthalene	14.068	128	23240	3.028	ug/L	97
72) 1,2,3-Trichlorobenzene	14.306	180	7837	2.867	ug/L	96

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

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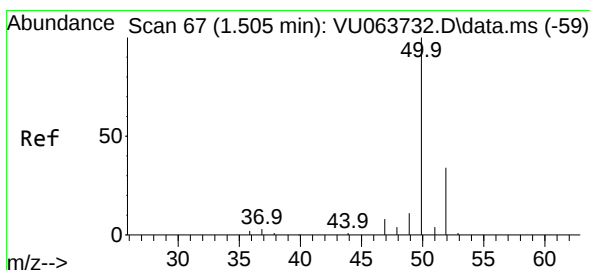
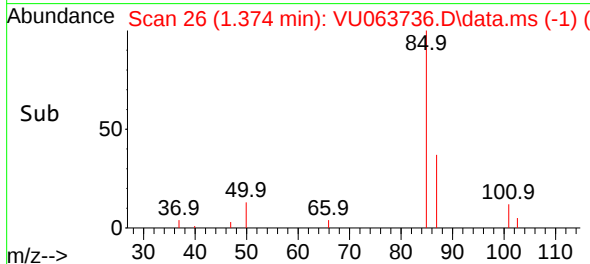
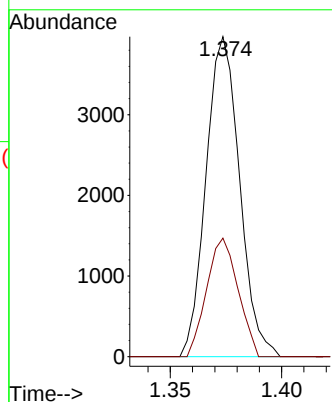
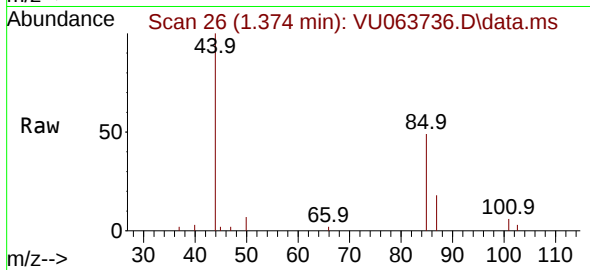




#2
 Dichlorodifluoromethane
 Concen: 2.291 ug/L
 RT: 1.374 min Scan# 20
 Delta R.T. 0.003 min
 Lab File: VU063736.D
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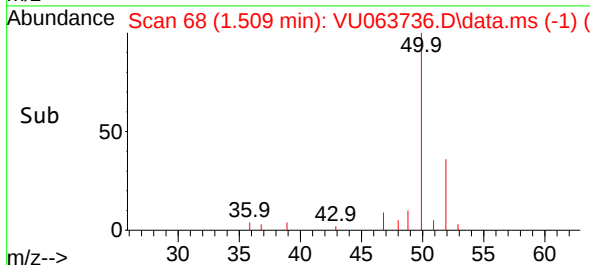
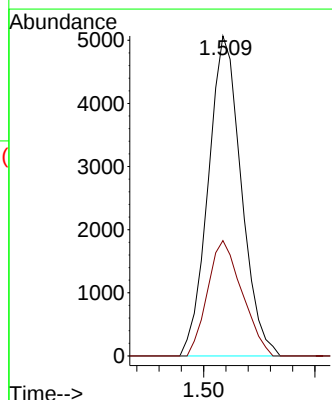
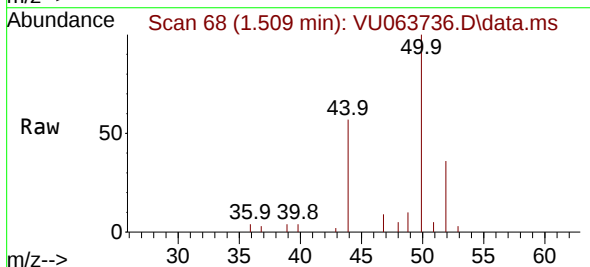
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-MED-SOIL-QT4-2025-08

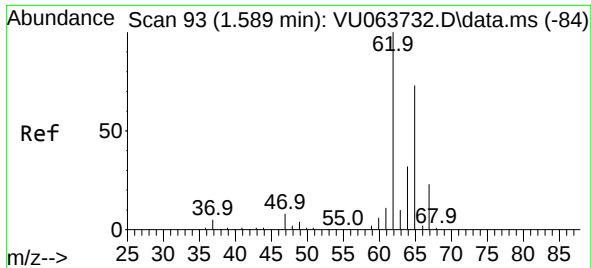
Tgt Ion: 85 Resp: 4163
 Ion Ratio Lower Upper
 85 100
 87 34.5 26.2 39.2



#3
 Chloromethane
 Concen: 2.539 ug/L
 RT: 1.509 min Scan# 68
 Delta R.T. 0.003 min
 Lab File: VU063736.D
 Acq: 18 Nov 2025 12:11

Tgt Ion: 50 Resp: 5221
 Ion Ratio Lower Upper
 50 100
 52 36.0 23.2 43.2

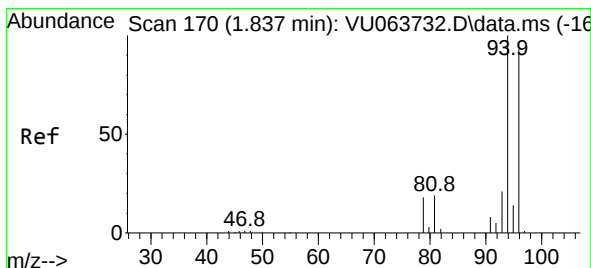
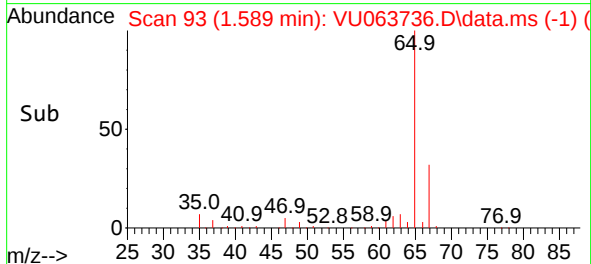
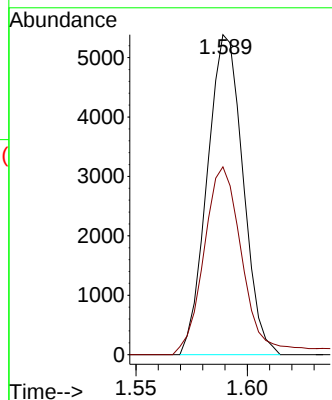
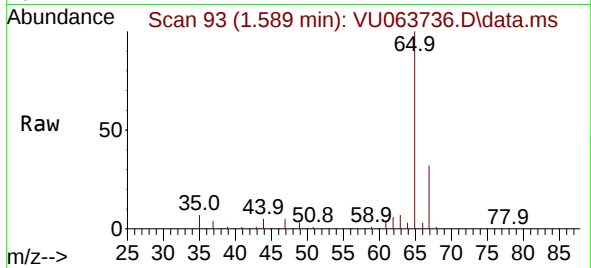




#5
 Vinyl chloride
 Concen: 2.509 ug/L
 RT: 1.589 min Scan# 91
 Delta R.T. -0.000 min
 Lab File: VU063736.D
 Acq: 18 Nov 2025 12:11

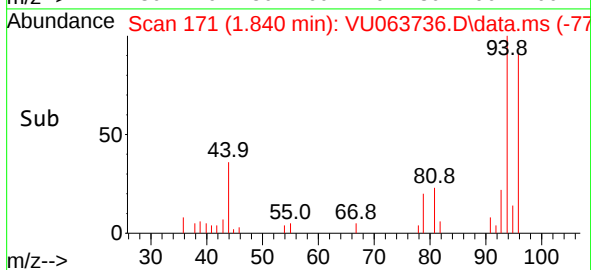
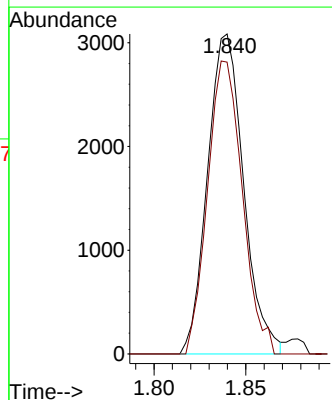
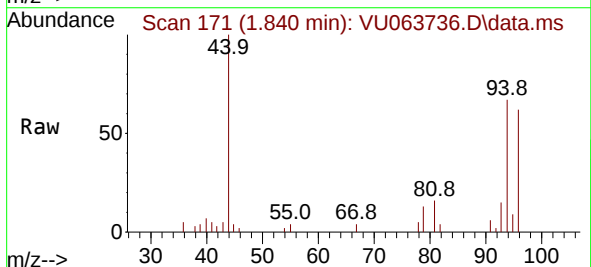
Instrument :
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 ClientSampleId :
 MDL-MED-SOIL-QT4-2025-08

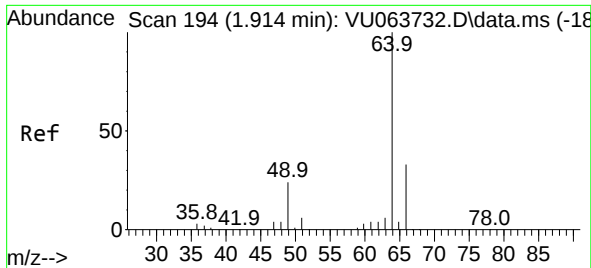
Tgt Ion: 62 Resp: 5997
 Ion Ratio Lower Upper
 62 100
 64 58.7 23.2 43.2#



#6
 Bromomethane
 Concen: 2.789 ug/L
 RT: 1.840 min Scan# 171
 Delta R.T. 0.003 min
 Lab File: VU063736.D
 Acq: 18 Nov 2025 12:11

Tgt Ion: 94 Resp: 4225
 Ion Ratio Lower Upper
 94 100
 96 91.2 63.8 118.4

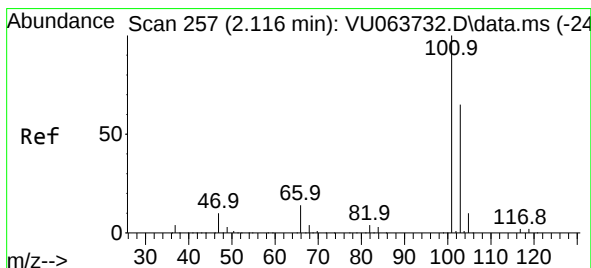
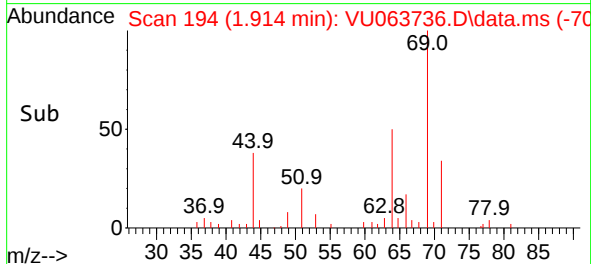
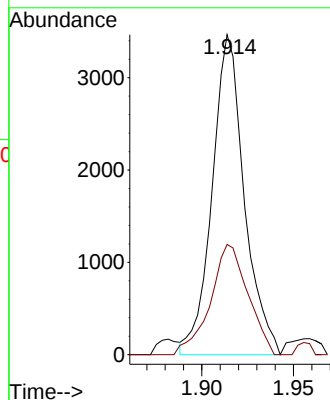
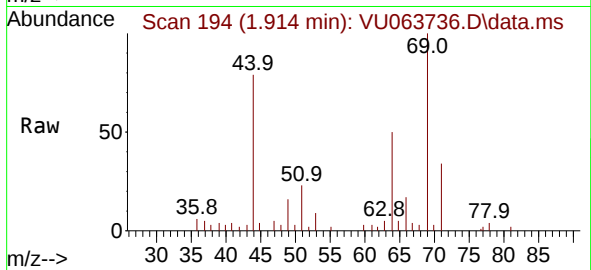




#8
Chloroethane
Concen: 2.644 ug/L
RT: 1.914 min Scan# 194
Delta R.T. -0.000 min
Lab File: VU063736.D
Acq: 18 Nov 2025 12:11

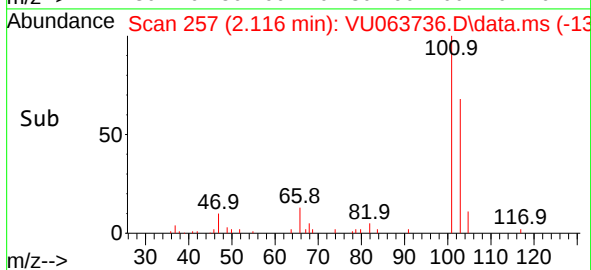
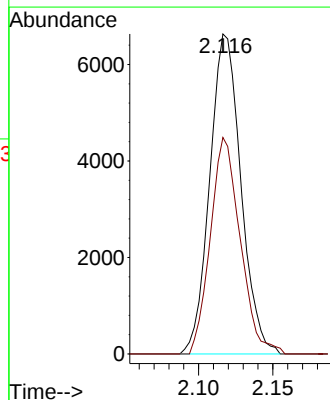
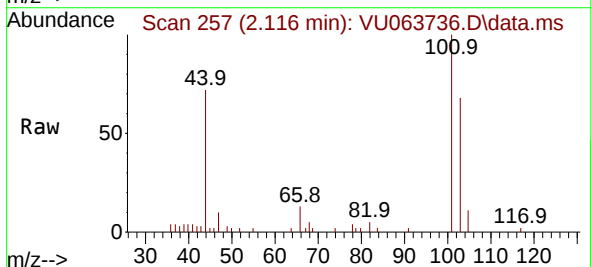
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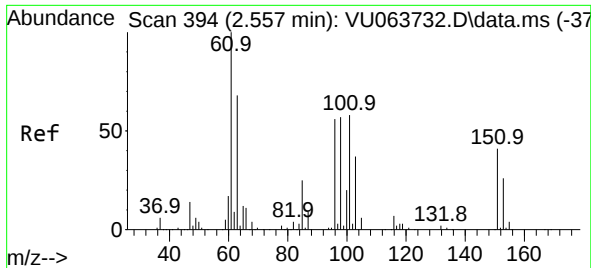
Tgt Ion: 64 Resp: 4219
Ion Ratio Lower Upper
64 100
66 38.2 22.4 41.6



#9
Trichlorofluoromethane
Concen: 2.568 ug/L
RT: 2.116 min Scan# 257
Delta R.T. -0.000 min
Lab File: VU063736.D
Acq: 18 Nov 2025 12:11

Tgt Ion:101 Resp: 9681
Ion Ratio Lower Upper
101 100
103 64.8 52.0 78.0

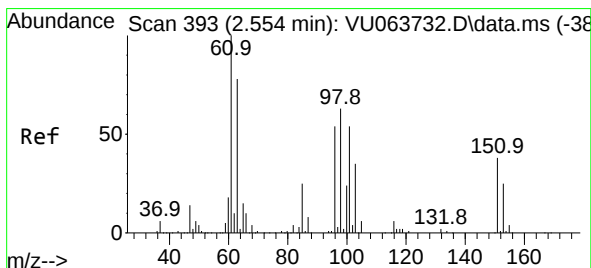
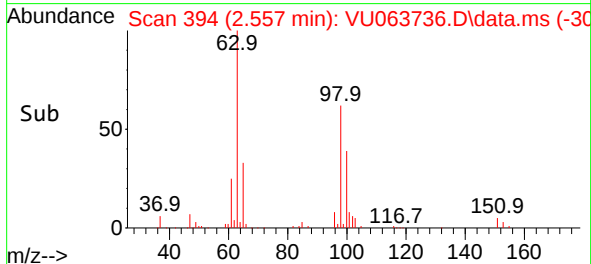
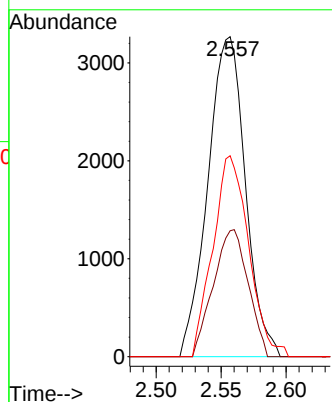
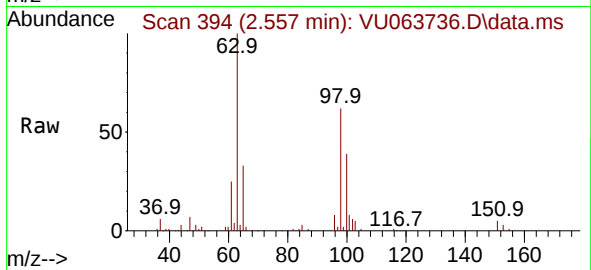




#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 2.945 ug/L
 RT: 2.557 min Scan# 394
 Delta R.T. -0.000 min
 Lab File: VU063736.D
 Acq: 18 Nov 2025 12:11

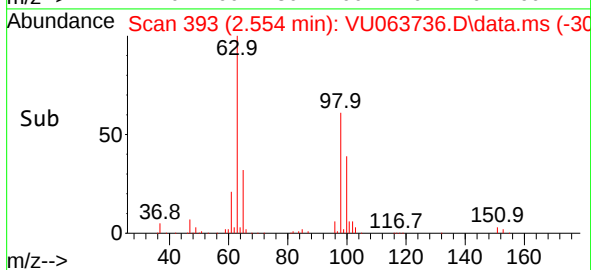
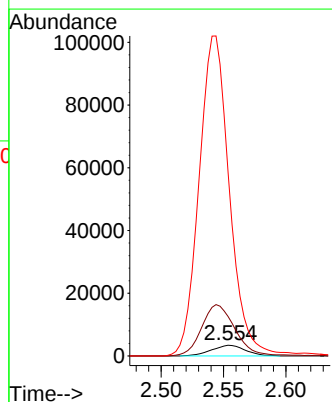
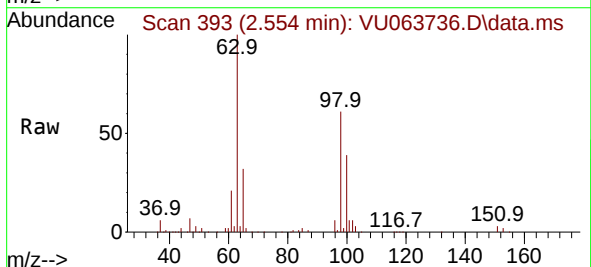
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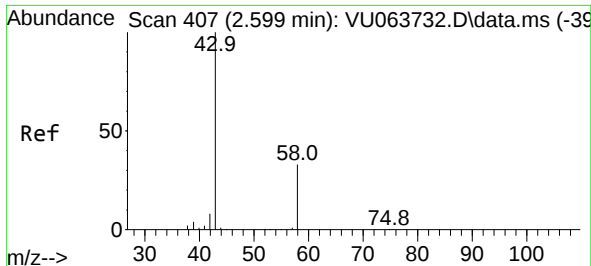
Tgt Ion:101 Resp: 6563
 Ion Ratio Lower Upper
 101 100
 85 36.7 36.3 54.5
 151 59.4 60.1 90.1#



#12
 1,1-Dichloroethene
 Concen: 3.193 ug/L
 RT: 2.554 min Scan# 393
 Delta R.T. -0.000 min
 Lab File: VU063736.D
 Acq: 18 Nov 2025 12:11

Tgt Ion: 96 Resp: 6508
 Ion Ratio Lower Upper
 96 100
 61 370.7 123.3 228.9#
 63 1724.8 103.3 191.8#





#13

Acetone

Concen: 4.561 ug/L

RT: 2.608 min Scan# 410

Delta R.T. 0.010 min

Lab File: VU063736.D

Acq: 18 Nov 2025 12:11

Instrument :

MSVOA_U

ClientSampleId :

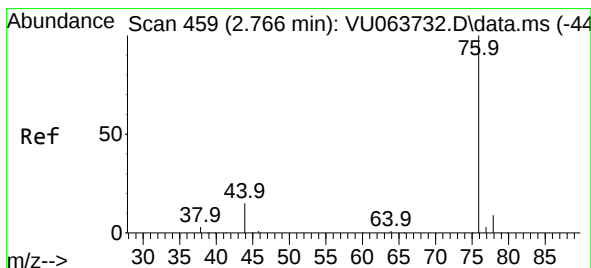
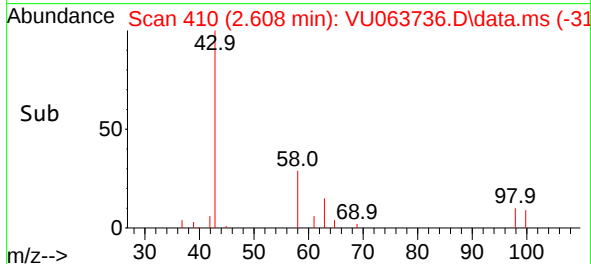
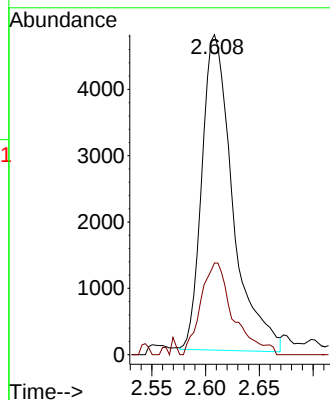
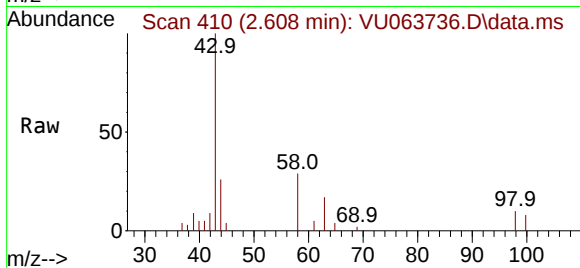
MDL-MED-SOIL-QT4-2025-08

Tgt Ion: 43 Resp: 9488

Ion Ratio Lower Upper

43 100

58 29.7 0.0 63.4



#14

Carbon disulfide

Concen: 2.400 ug/L

RT: 2.766 min Scan# 459

Delta R.T. -0.000 min

Lab File: VU063736.D

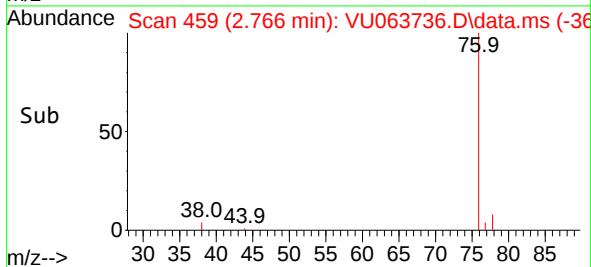
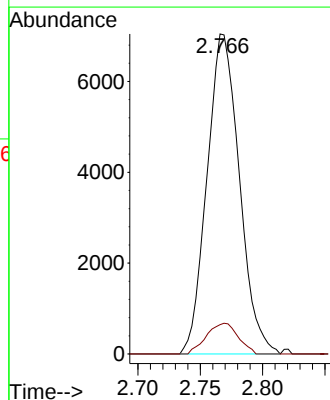
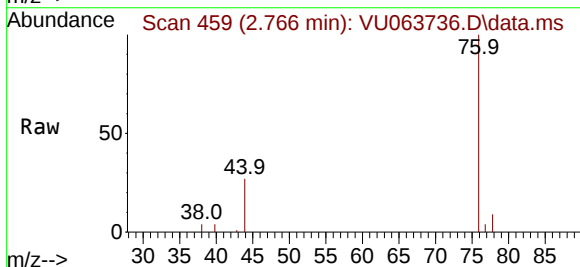
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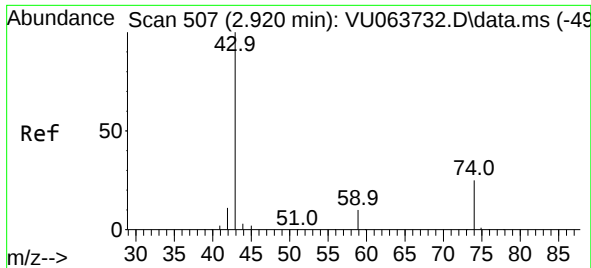
Tgt Ion: 76 Resp: 12744

Ion Ratio Lower Upper

76 100

78 9.2 7.8 11.6

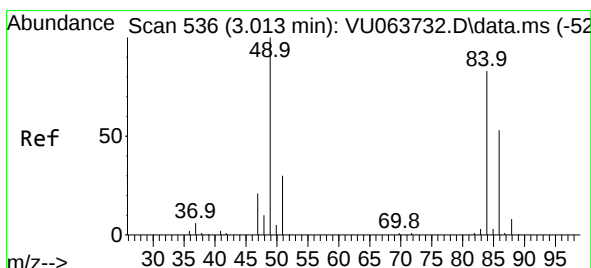
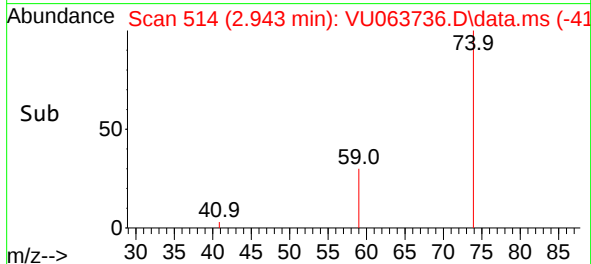
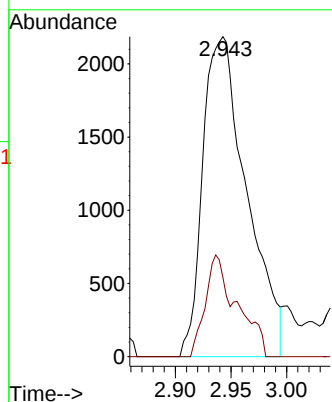
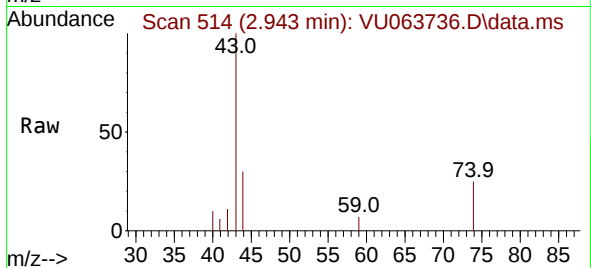




#15
Methyl Acetate
Concen: 2.397 ug/L
RT: 2.943 min Scan# 514
Delta R.T. 0.022 min
Lab File: VU063736.D
Acq: 18 Nov 2025 12:11

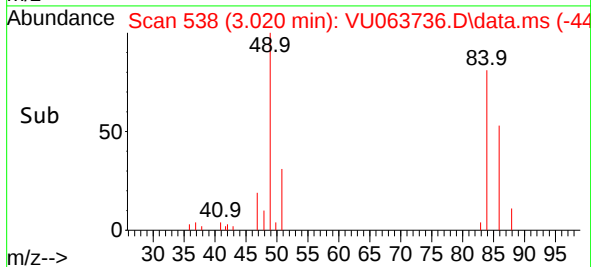
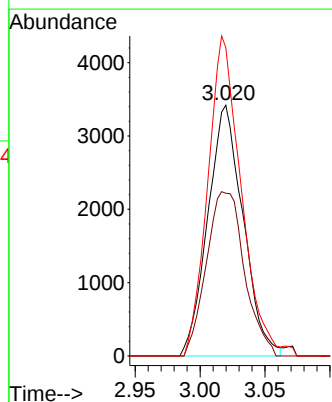
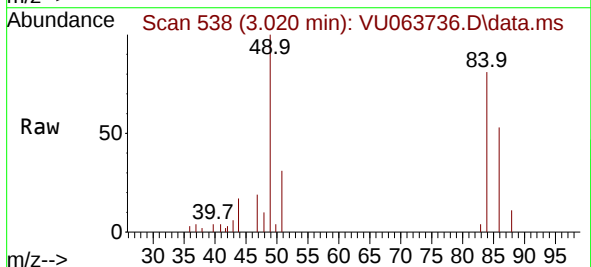
Instrument :
MSVOA_U
ClientSampleId :
MDL-MED-SOIL-QT4-2025-08

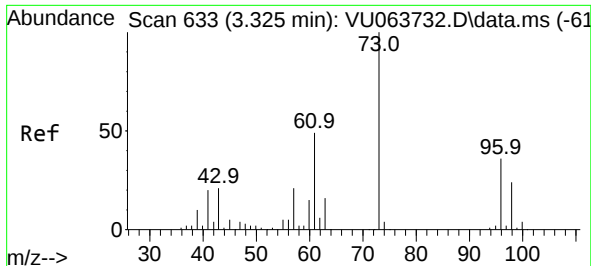
Tgt Ion: 43 Resp: 5988
Ion Ratio Lower Upper
43 100
74 14.9 20.5 30.7#



#16
Methylene chloride
Concen: 2.718 ug/L
RT: 3.020 min Scan# 538
Delta R.T. 0.006 min
Lab File: VU063736.D
Acq: 18 Nov 2025 12:11

Tgt Ion: 84 Resp: 6457
Ion Ratio Lower Upper
84 100
86 64.9 45.2 84.0
49 123.0 83.6 155.2

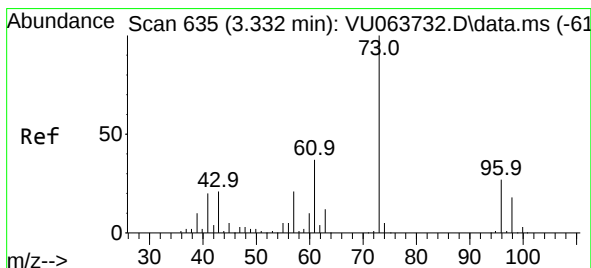
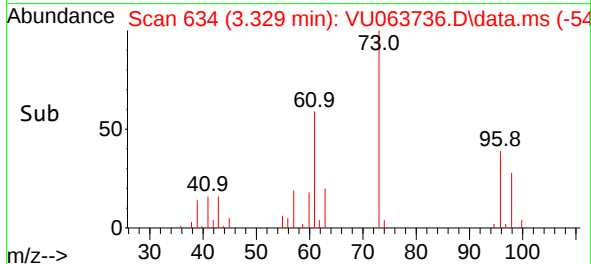
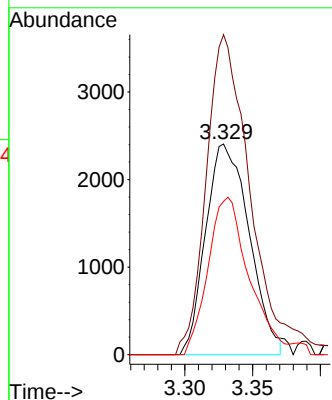
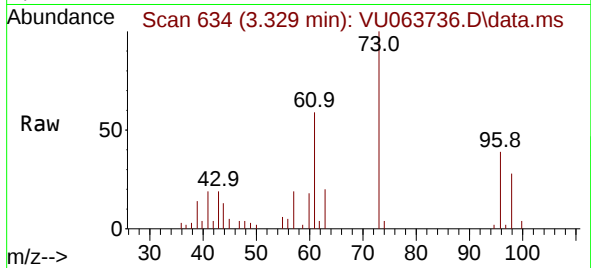




#17
trans-1,2-Dichloroethene
Concen: 2.473 ug/L
RT: 3.329 min Scan# 61
Delta R.T. 0.003 min
Lab File: VU063736.D
Acq: 18 Nov 2025 12:11

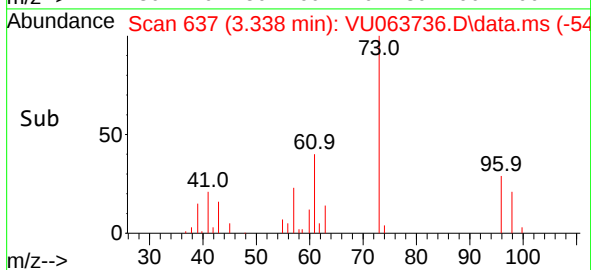
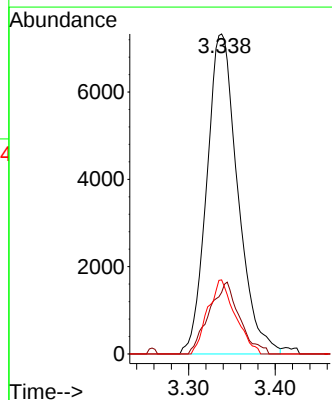
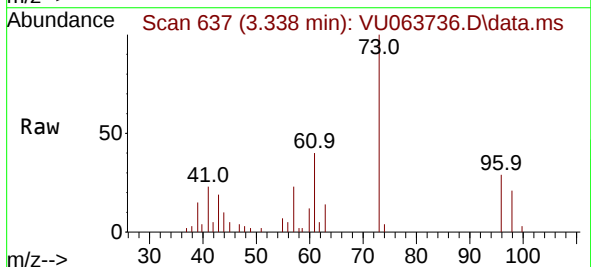
Instrument :
MSVOA_U
ClientSampleId :
MDL-MED-SOIL-QT4-2025-08

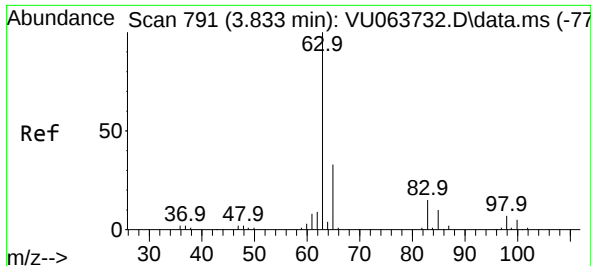
Tgt Ion: 96 Resp: 5373
Ion Ratio Lower Upper
96 100
61 151.9 92.7 172.1
98 72.7 43.2 80.2



#18
Methyl tert-butyl Ether
Concen: 2.476 ug/L
RT: 3.338 min Scan# 637
Delta R.T. 0.006 min
Lab File: VU063736.D
Acq: 18 Nov 2025 12:11

Tgt Ion: 73 Resp: 18207
Ion Ratio Lower Upper
73 100
43 21.9 16.6 24.8
57 20.5 16.3 24.5

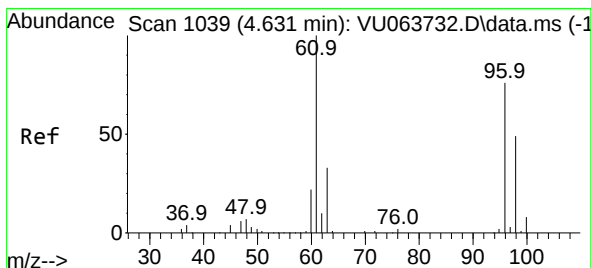
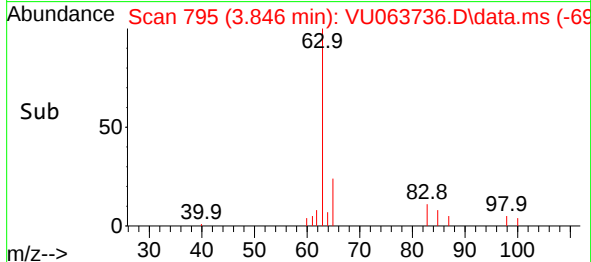
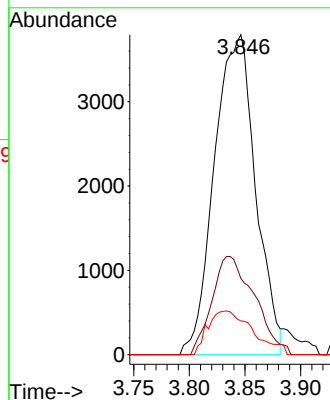
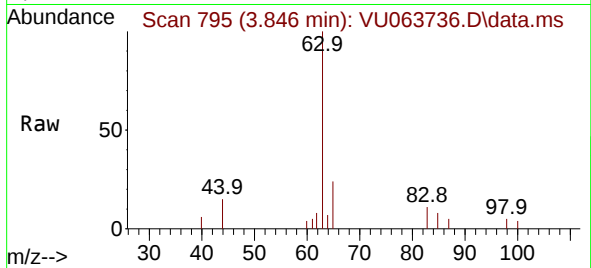




#19
1,1-Dichloroethane
Concen: 2.332 ug/L
RT: 3.846 min Scan# 791
Delta R.T. 0.013 min
Lab File: VU063736.D
Acq: 18 Nov 2025 12:11

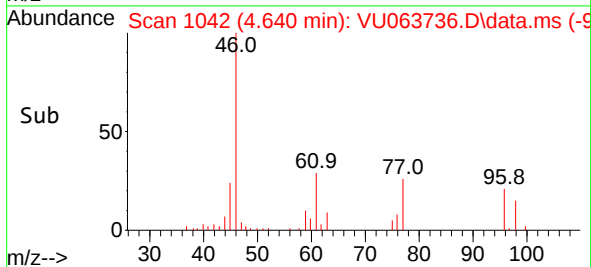
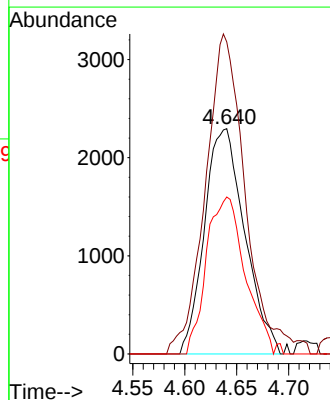
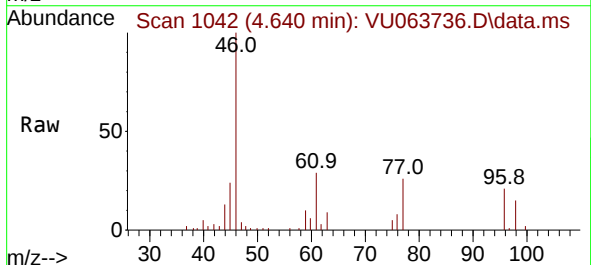
Instrument :
MSVOA_U
ClientSampleId :
MDL-MED-SOIL-QT4-2025-08

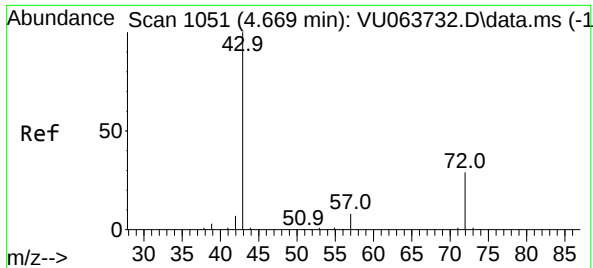
Tgt Ion: 63 Resp: 9765
Ion Ratio Lower Upper
63 100
65 23.9 22.0 41.0
83 10.6 9.5 17.7



#20
cis-1,2-Dichloroethene
Concen: 2.476 ug/L
RT: 4.640 min Scan# 1042
Delta R.T. 0.010 min
Lab File: VU063736.D
Acq: 18 Nov 2025 12:11

Tgt Ion: 96 Resp: 6194
Ion Ratio Lower Upper
96 100
61 132.0 90.3 167.7
98 66.4 46.3 86.1

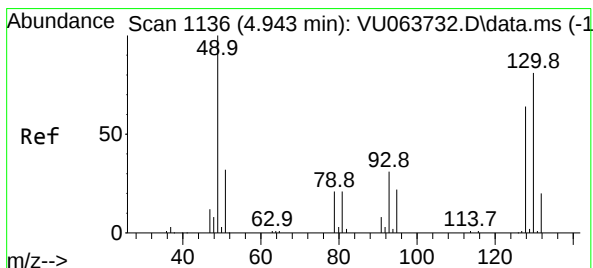
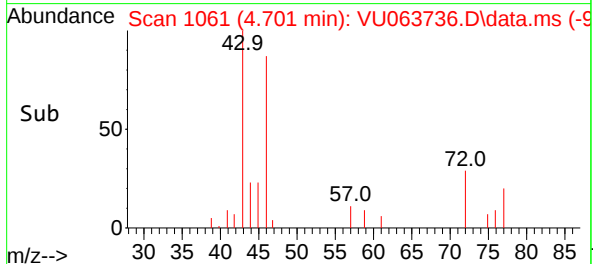
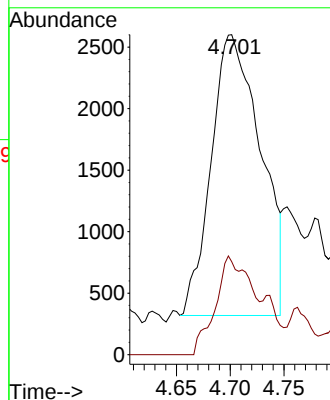
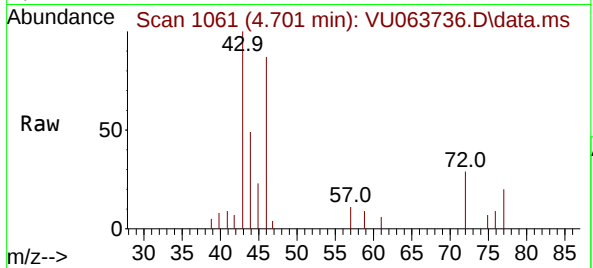




#22
2-Butanone
Concen: 3.158 ug/L
RT: 4.701 min Scan# 1061
Delta R.T. 0.032 min
Lab File: VU063736.D
Acq: 18 Nov 2025 12:11

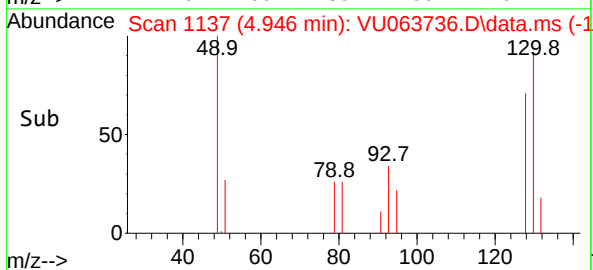
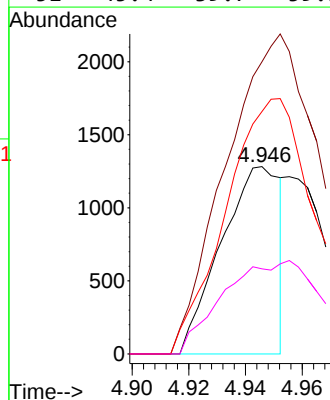
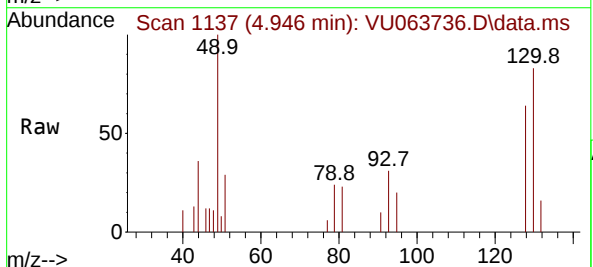
Instrument : MSVOA_U
ClientSampleId : MDL-MED-SOIL-QT4-2025-08

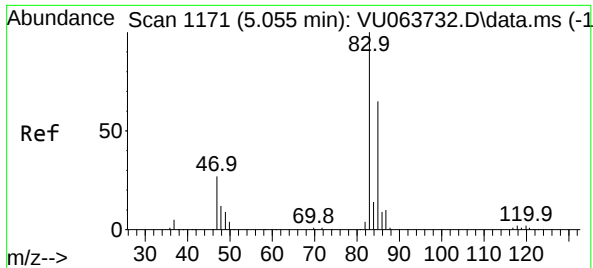
Tgt Ion: 43 Resp: 7298
Ion Ratio Lower Upper
43 100
72 16.1 13.6 40.7



#23
Bromochloromethane
Concen: 1.441 ug/L
RT: 4.946 min Scan# 1137
Delta R.T. 0.003 min
Lab File: VU063736.D
Acq: 18 Nov 2025 12:11

Tgt Ion:128 Resp: 1853
Ion Ratio Lower Upper
128 100
49 155.9 113.5 210.7
130 129.4 89.8 166.8
51 45.4 39.7 59.5

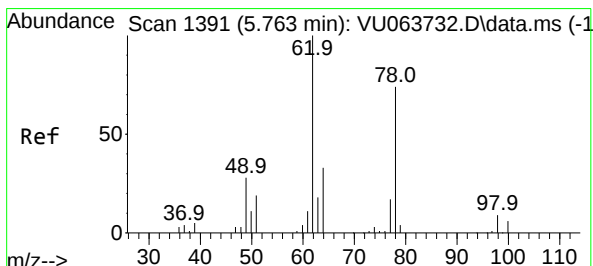
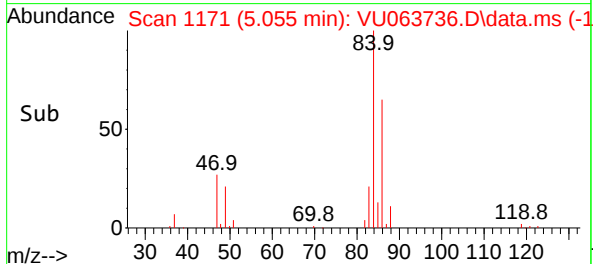
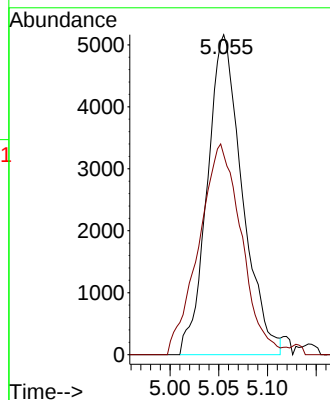
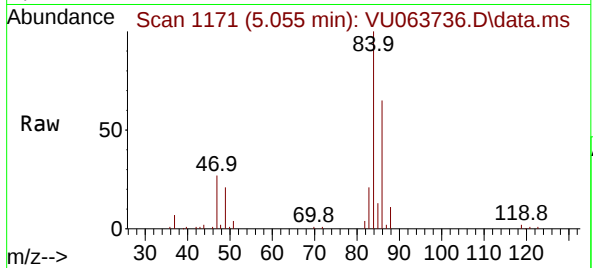




#25
Chloroform
Concen: 2.842 ug/L
RT: 5.055 min Scan# 1171
Delta R.T. -0.000 min
Lab File: VU063736.D
Acq: 18 Nov 2025 12:11

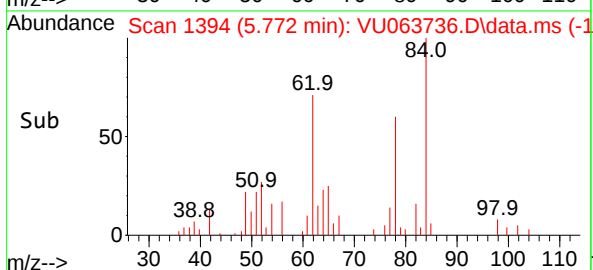
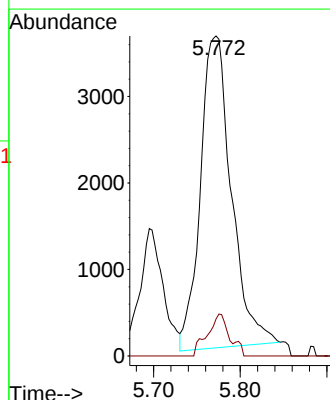
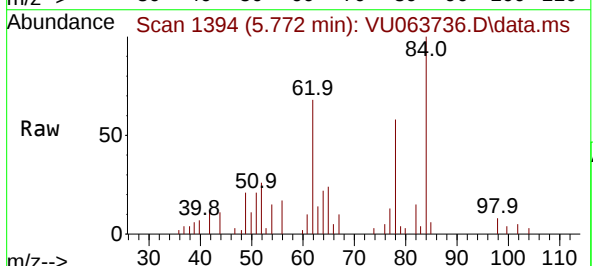
Instrument :
MSVOA_U
ClientSampleId :
MDL-MED-SOIL-QT4-2025-08

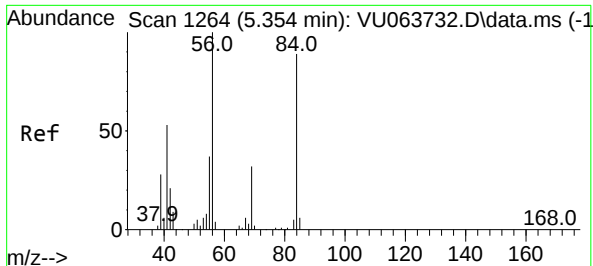
Tgt Ion: 83 Resp: 12881
Ion Ratio Lower Upper
83 100
85 62.5 45.4 84.4



#27
1,2-Dichloroethane
Concen: 2.417 ug/L
RT: 5.772 min Scan# 1394
Delta R.T. 0.010 min
Lab File: VU063736.D
Acq: 18 Nov 2025 12:11

Tgt Ion: 62 Resp: 8944
Ion Ratio Lower Upper
62 100
98 11.5 7.6 11.4#





#29

Cyclohexane

Concen: 2.395 ug/L

RT: 5.354 min Scan# 11

Delta R.T. -0.000 min

Lab File: VU063736.D

Acq: 18 Nov 2025 12:11

Instrument :

MSVOA_U

ClientSampleId :

MDL-MED-SOIL-QT4-2025-08

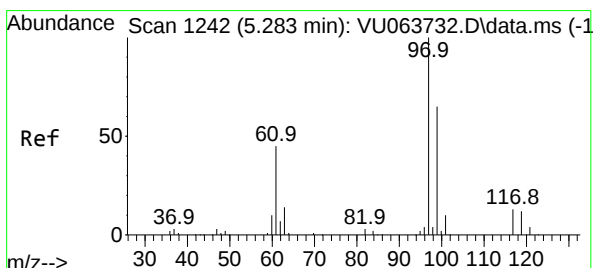
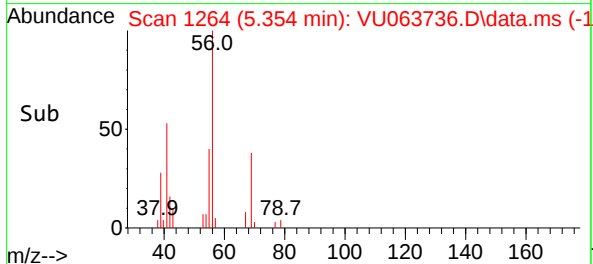
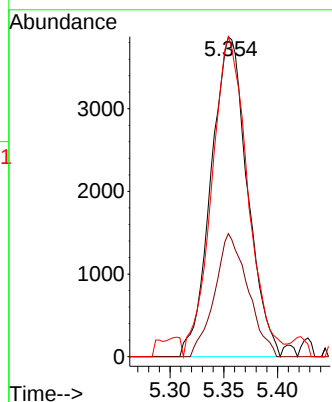
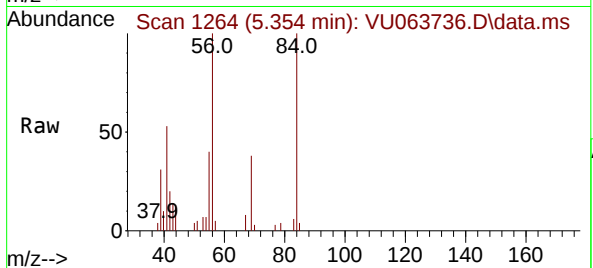
Tgt Ion: 56 Resp: 9096

Ion Ratio Lower Upper

56 100

69 35.2 25.8 38.8

84 98.8 69.3 103.9



#30

1,1,1-Trichloroethane

Concen: 2.294 ug/L

RT: 5.283 min Scan# 1242

Delta R.T. -0.000 min

Lab File: VU063736.D

Acq: 18 Nov 2025 12:11

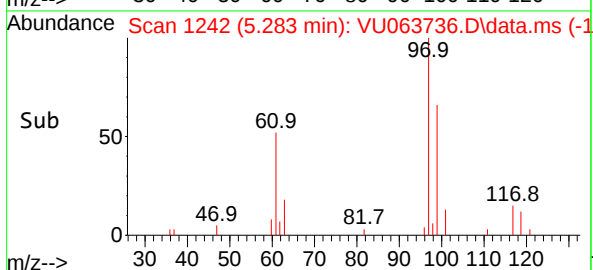
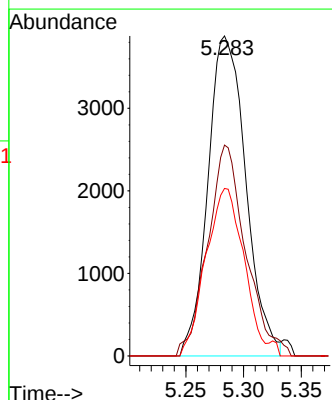
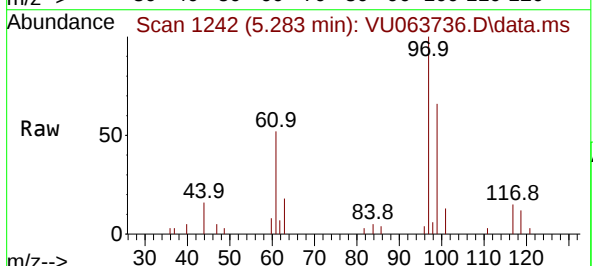
Tgt Ion: 97 Resp: 8843

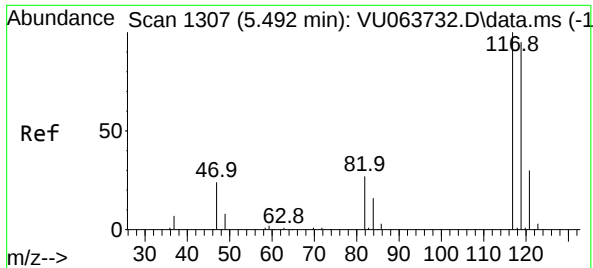
Ion Ratio Lower Upper

97 100

99 66.3 50.7 76.1

61 52.2 37.2 55.8

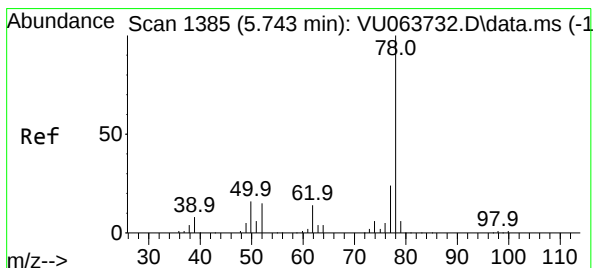
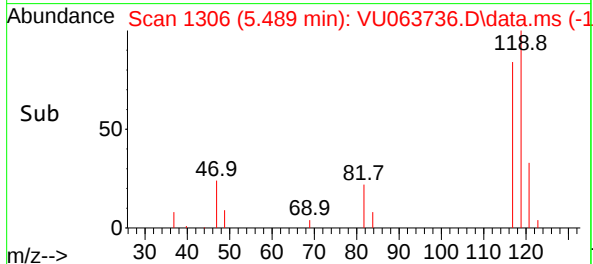
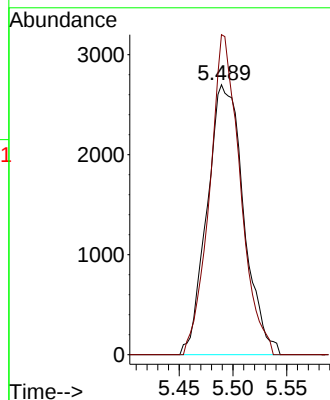
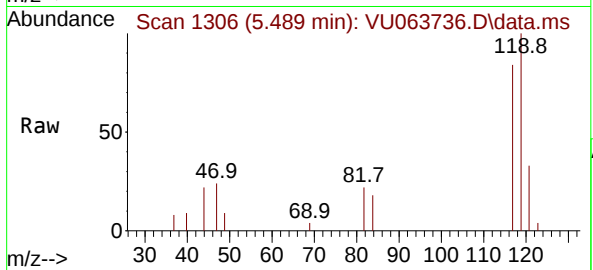




#31
Carbon tetrachloride
Concen: 2.103 ug/L
RT: 5.489 min Scan# 1117
Delta R.T. -0.003 min
Lab File: VU063736.D
Acq: 18 Nov 2025 12:11

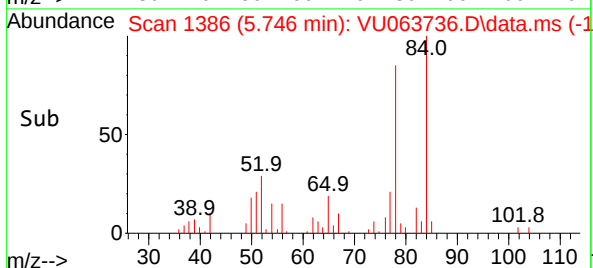
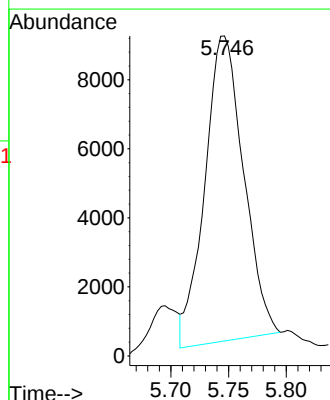
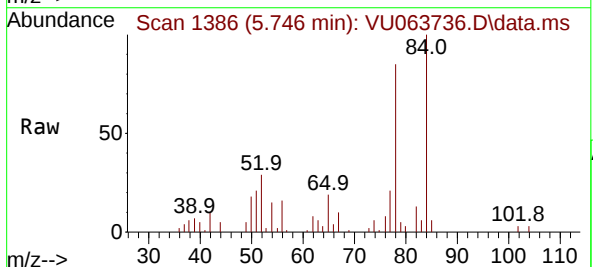
Instrument : MSVOA_U
ClientSampleId : MDL-MED-SOIL-QT4-2025-08

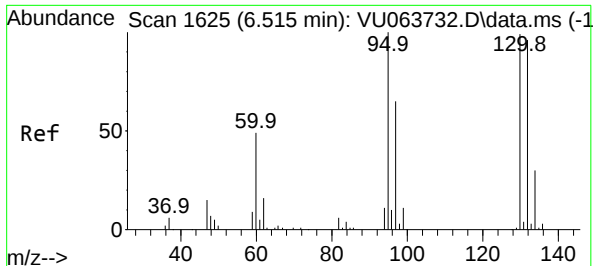
Tgt Ion:117 Resp: 6373
Ion Ratio Lower Upper
117 100
119 99.5 76.0 114.0



#33
Benzene
Concen: 2.239 ug/L
RT: 5.746 min Scan# 1386
Delta R.T. 0.003 min
Lab File: VU063736.D
Acq: 18 Nov 2025 12:11

Tgt Ion: 78 Resp: 20613





#34

Trichloroethene

Concen: 2.433 ug/L

RT: 6.518 min Scan# 1

Delta R.T. 0.003 min

Lab File: VU063736.D

Acq: 18 Nov 2025 12:11

Instrument :

MSVOA_U

ClientSampleId :

MDL-MED-SOIL-QT4-2025-08

Tgt Ion: 95 Resp: 6458

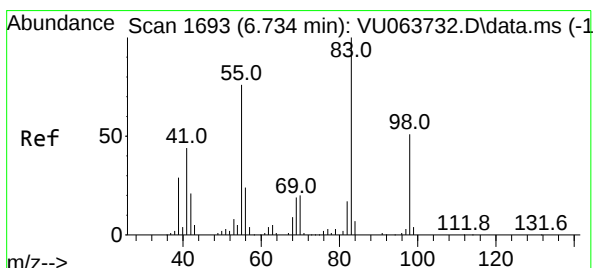
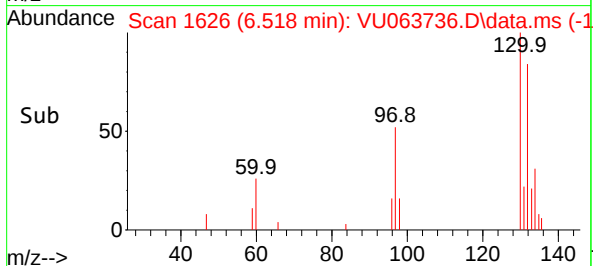
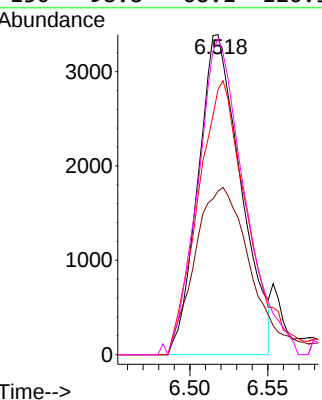
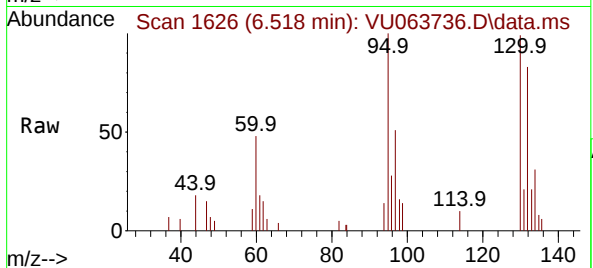
Ion Ratio Lower Upper

95 100

97 51.1 45.1 83.9

132 83.0 68.3 126.8

130 98.8 68.1 126.5



#35

Methylcyclohexane

Concen: 2.788 ug/L

RT: 6.734 min Scan# 1693

Delta R.T. -0.000 min

Lab File: VU063736.D

Acq: 18 Nov 2025 12:11

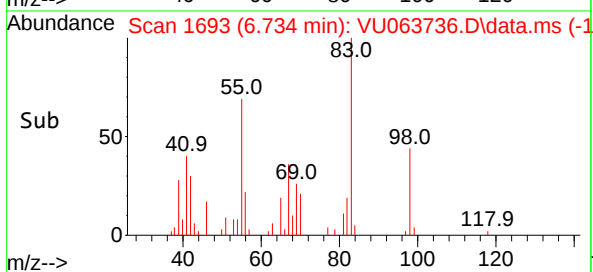
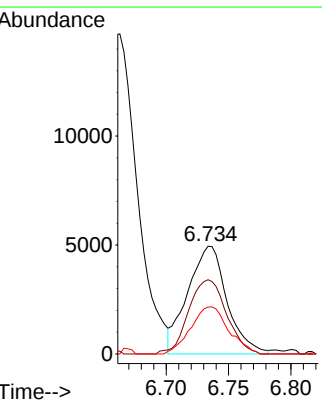
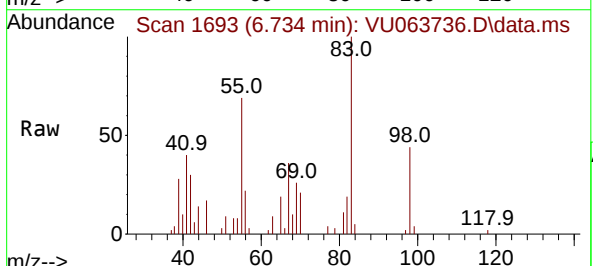
Tgt Ion: 83 Resp: 10863

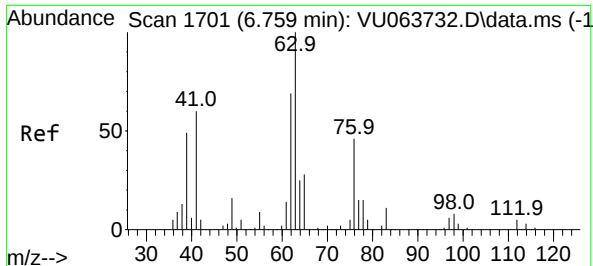
Ion Ratio Lower Upper

83 100

55 66.2 60.9 91.3

98 42.2 39.7 59.5





#37

1,2-Dichloropropane

Concen: 2.619 ug/L

RT: 6.766 min Scan# 11

Delta R.T. 0.006 min

Lab File: VU063736.D

Acq: 18 Nov 2025 12:11

Instrument :

MSVOA_U

ClientSampleId :

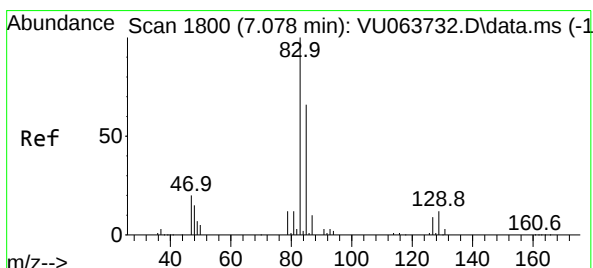
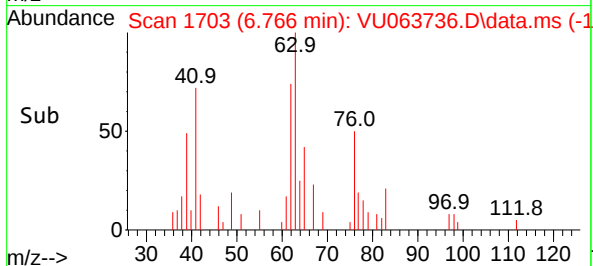
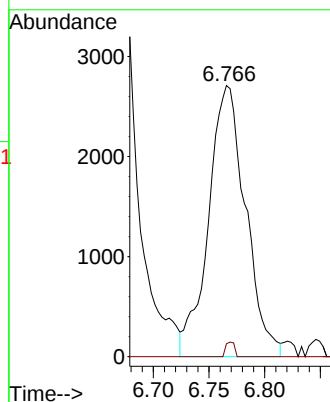
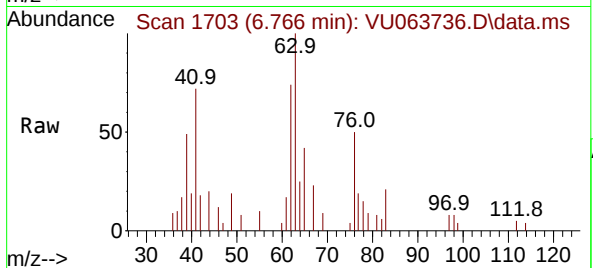
MDL-MED-SOIL-QT4-2025-08

Tgt Ion: 63 Resp: 6265

Ion Ratio Lower Upper

63 100

112 1.3 3.7 5.5#



#38

Bromodichloromethane

Concen: 2.152 ug/L

RT: 7.081 min Scan# 1801

Delta R.T. 0.003 min

Lab File: VU063736.D

Acq: 18 Nov 2025 12:11

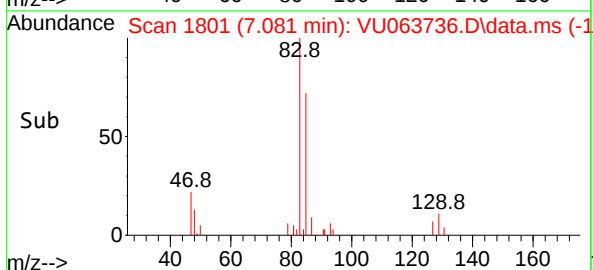
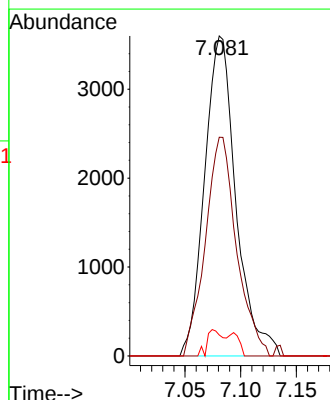
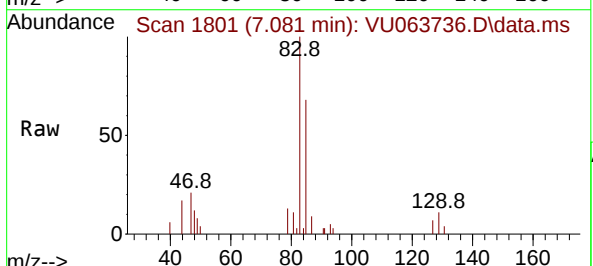
Tgt Ion: 83 Resp: 7049

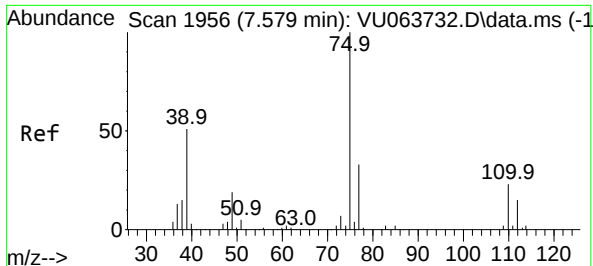
Ion Ratio Lower Upper

83 100

85 68.4 43.1 80.1

127 6.5 6.6 10.0#





#39

cis-1,3-Dichloropropene

Concen: 2.137 ug/L

RT: 7.589 min Scan# 1956

Delta R.T. 0.010 min

Lab File: VU063736.D

Acq: 18 Nov 2025 12:11

Instrument :

MSVOA_U

ClientSampleId :

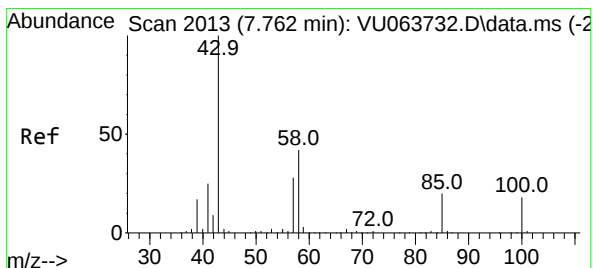
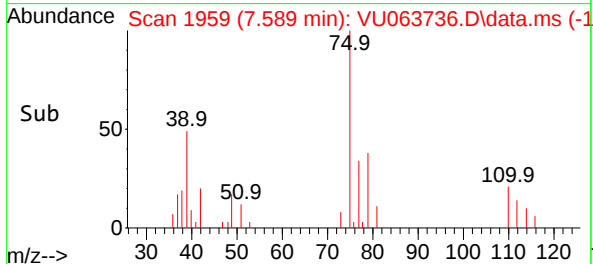
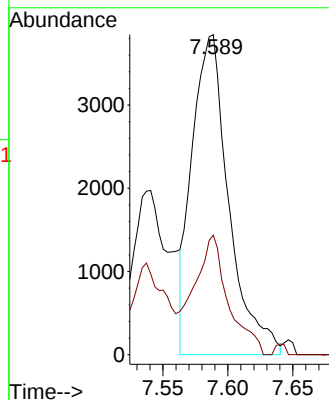
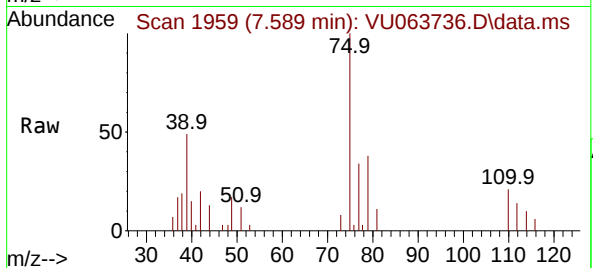
MDL-MED-SOIL-QT4-2025-08

Tgt Ion: 75 Resp: 7581

Ion Ratio Lower Upper

75 100

77 36.3 22.1 41.1



#40

4-Methyl-2-pentanone

Concen: 4.620 ug/L

RT: 7.772 min Scan# 2016

Delta R.T. 0.010 min

Lab File: VU063736.D

Acq: 18 Nov 2025 12:11

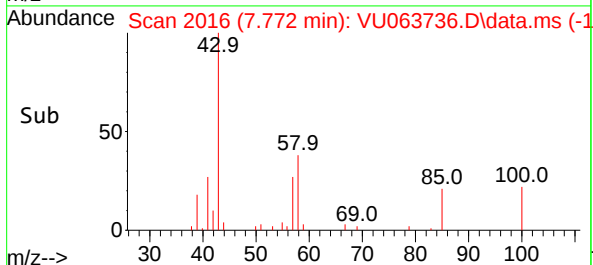
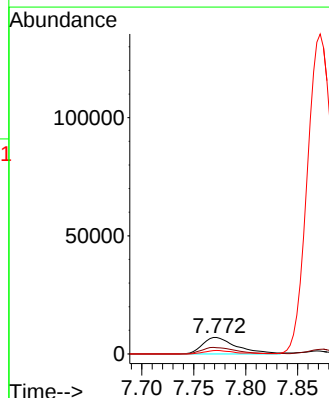
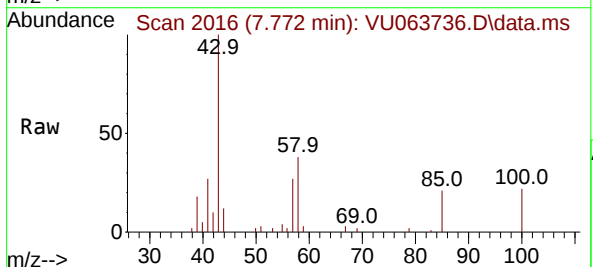
Tgt Ion: 43 Resp: 15997

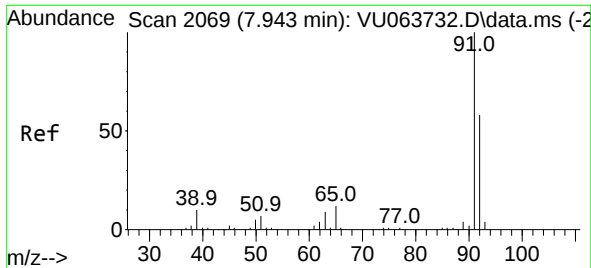
Ion Ratio Lower Upper

43 100

58 40.1 32.9 49.3

100 16.5 13.9 20.9





#42

Toluene

Concen: 2.549 ug/L

RT: 7.946 min Scan# 2069

Delta R.T. 0.003 min

Lab File: VU063736.D

Acq: 18 Nov 2025 12:11

Instrument :

MSVOA_U

ClientSampleId :

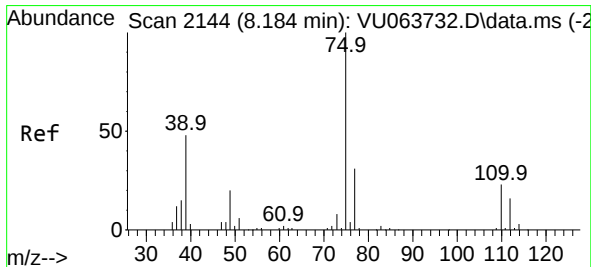
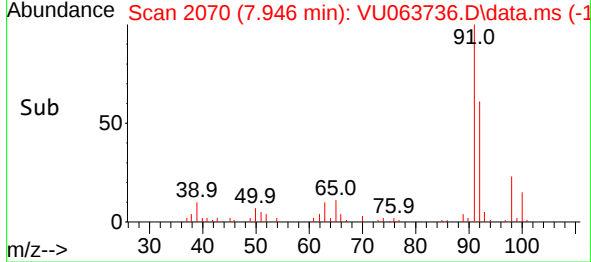
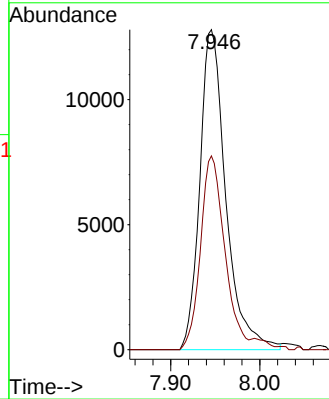
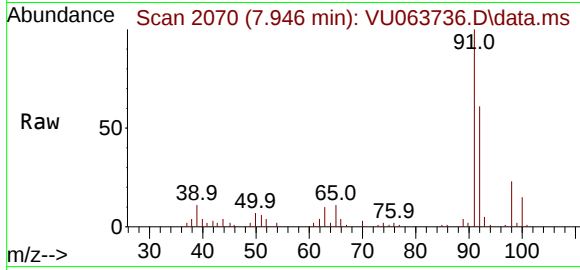
MDL-MED-SOIL-QT4-2025-08

Tgt Ion: 91 Resp: 25911

Ion Ratio Lower Upper

91 100

92 60.6 41.2 76.4



#44

trans-1,3-Dichloropropene

Concen: 2.389 ug/L

RT: 8.187 min Scan# 2145

Delta R.T. 0.003 min

Lab File: VU063736.D

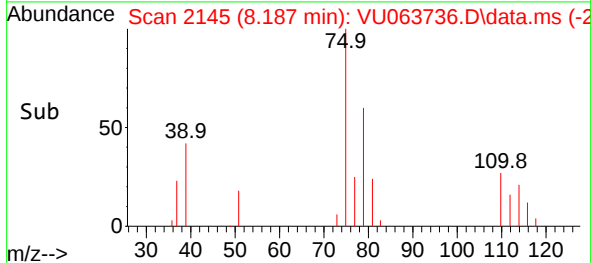
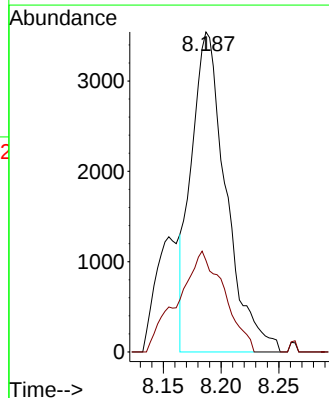
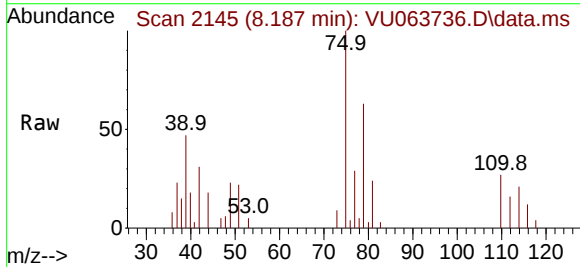
Acq: 18 Nov 2025 12:11

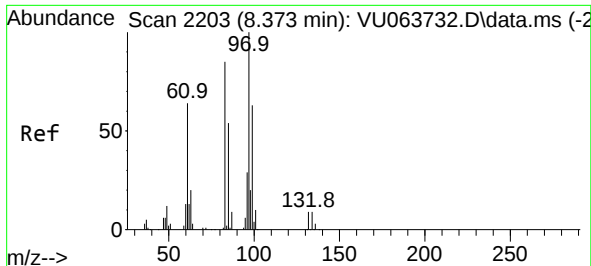
Tgt Ion: 75 Resp: 7398

Ion Ratio Lower Upper

75 100

77 28.6 21.4 39.8

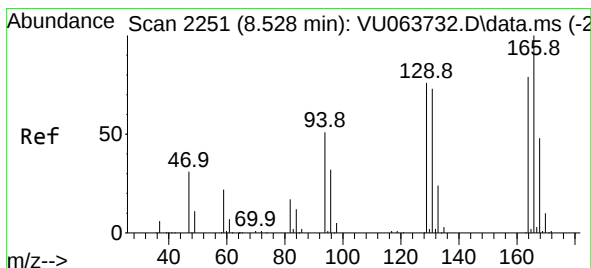
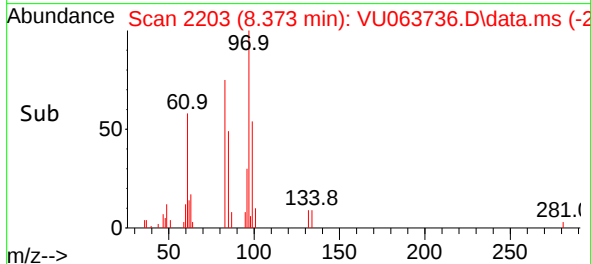
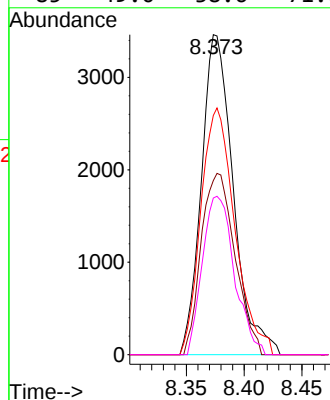
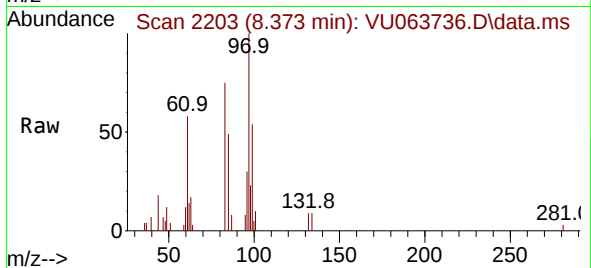




#45
1,1,2-Trichloroethane
Concen: 2.627 ug/L
RT: 8.373 min Scan# 2203
Delta R.T. -0.000 min
Lab File: VU063736.D
Acq: 18 Nov 2025 12:11

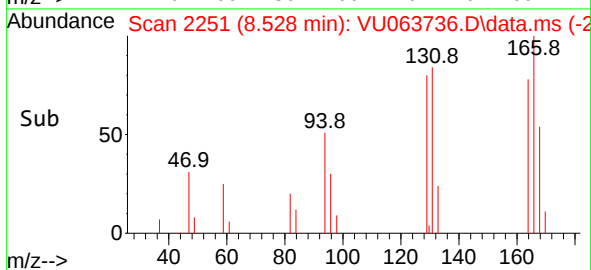
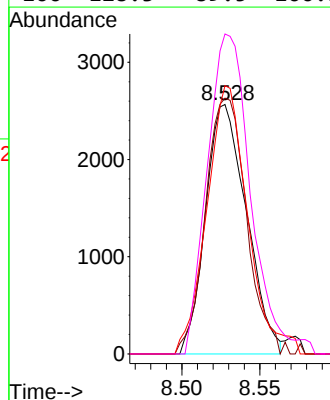
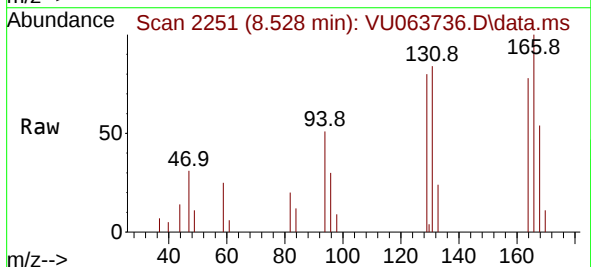
Instrument : MSVOA_U
ClientSampleId : MDL-MED-SOIL-QT4-2025-08

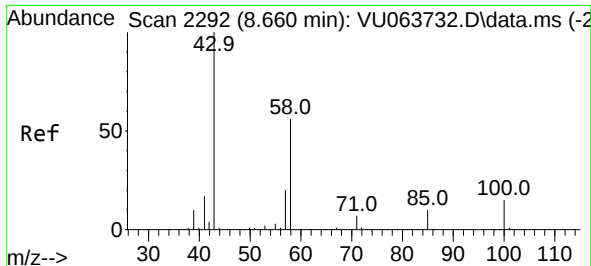
Tgt Ion:	97	Resp:	6646
Ion	Ratio	Lower	Upper
97	100		
99	54.4	43.7	81.1
83	74.8	59.7	110.9
85	49.0	38.6	71.6



#46
Tetrachloroethene
Concen: 2.314 ug/L
RT: 8.528 min Scan# 2251
Delta R.T. -0.000 min
Lab File: VU063736.D
Acq: 18 Nov 2025 12:11

Tgt Ion:	164	Resp:	4696
Ion	Ratio	Lower	Upper
164	100		
129	108.0	68.5	127.3
131	107.6	64.3	119.3
166	128.3	89.5	166.1

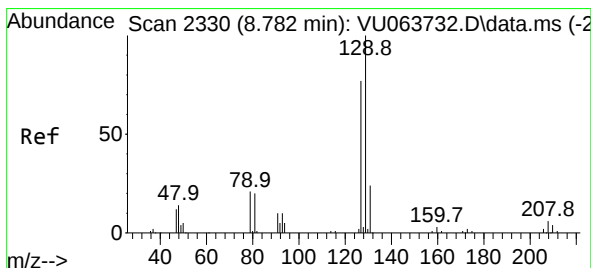
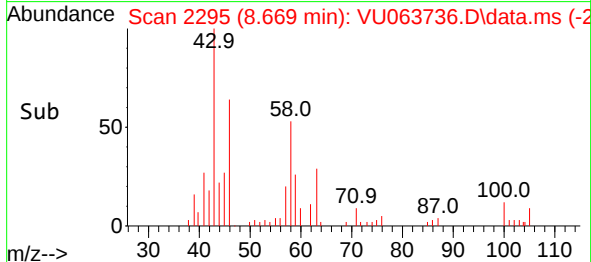
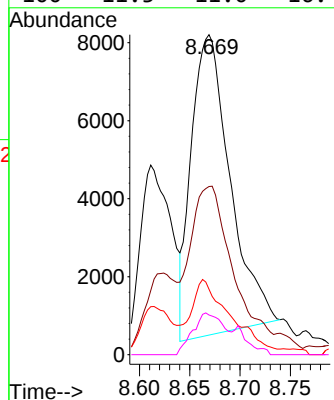
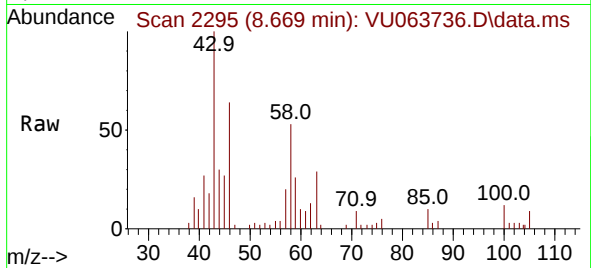




#48
2-Hexanone
Concen: 7.610 ug/L
RT: 8.669 min Scan# 21
Delta R.T. 0.010 min
Lab File: VU063736.D
Acq: 18 Nov 2025 12:11

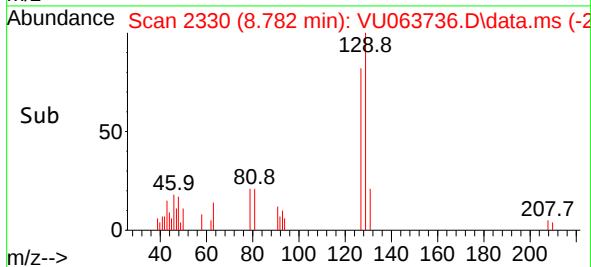
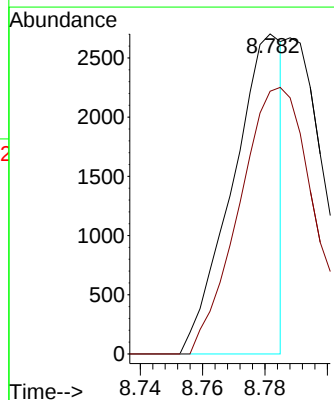
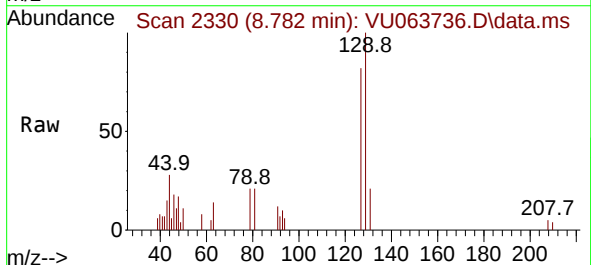
Instrument :
MSVOA_U
ClientSampleId :
MDL-MED-SOIL-QT4-2025-08

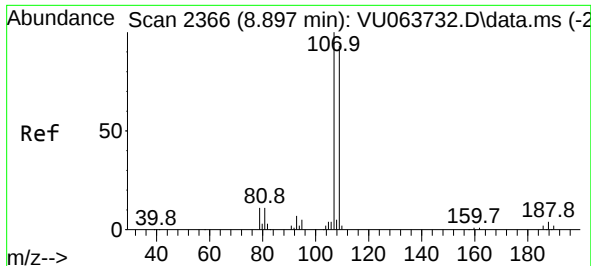
Tgt Ion:	43	Resp:	20683
Ion	Ratio	Lower	Upper
43	100		
58	53.7	44.8	67.2
57	12.4	16.6	24.8
100	11.3	11.0	16.4



#49
Dibromochloromethane
Concen: 1.225 ug/L
RT: 8.782 min Scan# 2330
Delta R.T. -0.000 min
Lab File: VU063736.D
Acq: 18 Nov 2025 12:11

Tgt Ion:	129	Resp:	2993
Ion	Ratio	Lower	Upper
129	100		
127	82.1	53.4	99.2

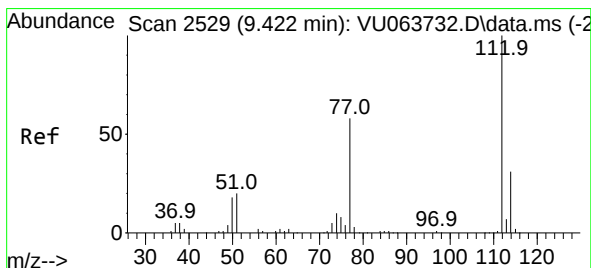
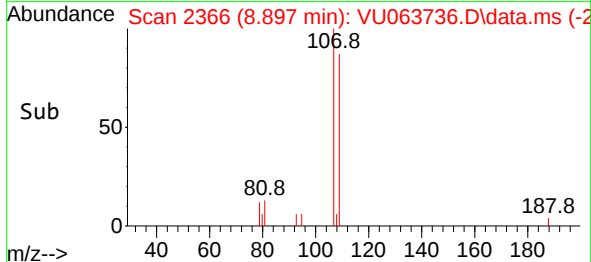
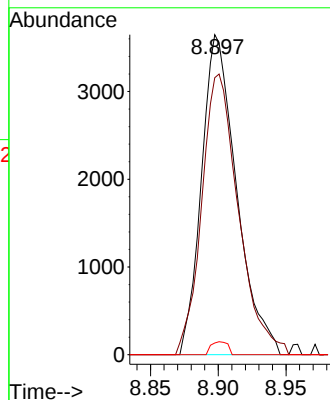
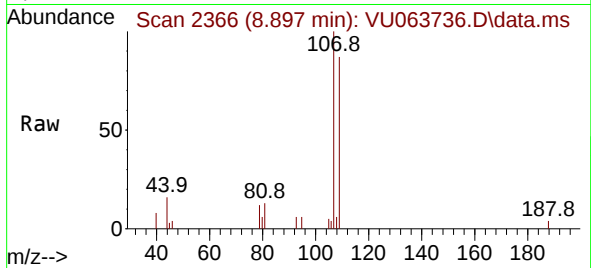




#50
1,2-Dibromoethane
Concen: 2.472 ug/L
RT: 8.897 min Scan# 21
Delta R.T. -0.000 min
Lab File: VU063736.D
Acq: 18 Nov 2025 12:11

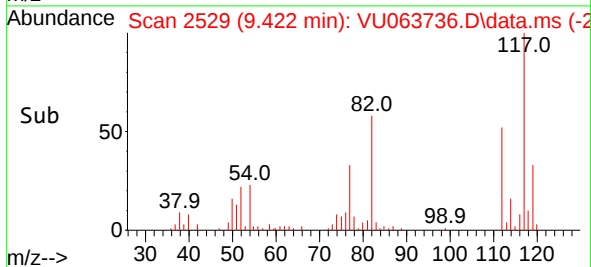
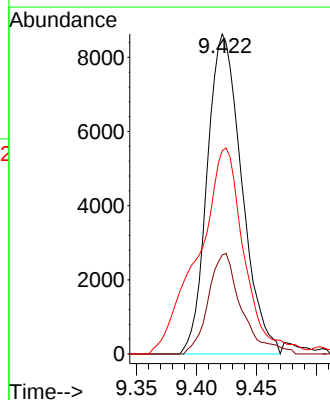
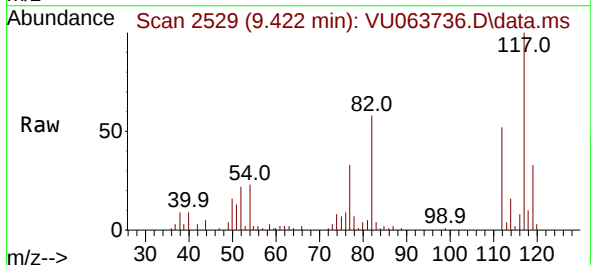
Instrument : MSVOA_U
ClientSampleId : MDL-MED-SOIL-QT4-2025-08

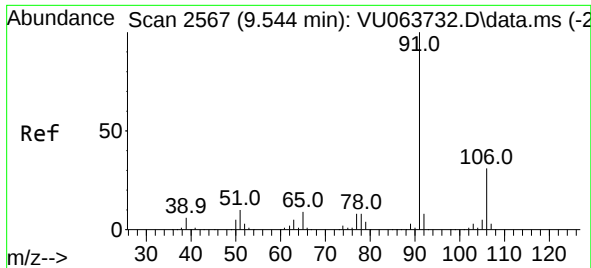
Tgt Ion:	107	Resp:	6564
Ion	Ratio	Lower	Upper
107	100		
109	86.6	65.8	122.2
188	3.6	3.2	4.8



#51
Chlorobenzene
Concen: 2.519 ug/L
RT: 9.422 min Scan# 2529
Delta R.T. -0.000 min
Lab File: VU063736.D
Acq: 18 Nov 2025 12:11

Tgt Ion:	112	Resp:	17277
Ion	Ratio	Lower	Upper
112	100		
114	31.0	22.1	41.1
77	63.5	48.0	72.0

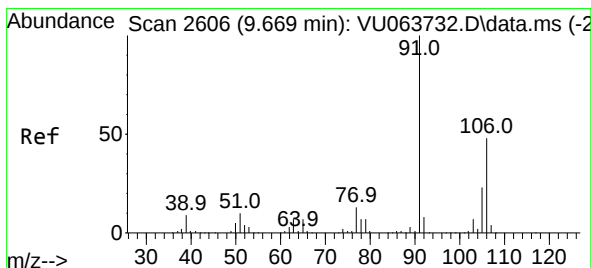
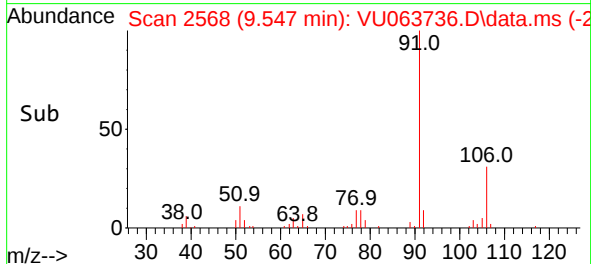
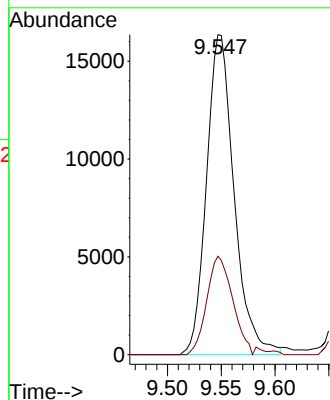
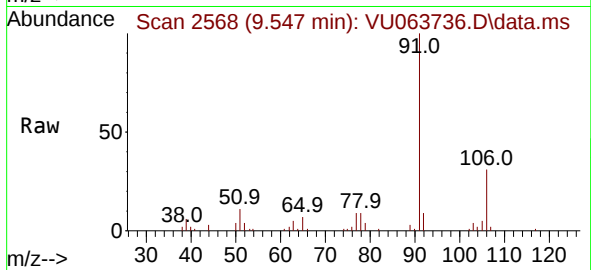




#52
Ethylbenzene
Concen: 2.476 ug/L
RT: 9.547 min Scan# 21
Delta R.T. 0.003 min
Lab File: VU063736.D
Acq: 18 Nov 2025 12:11

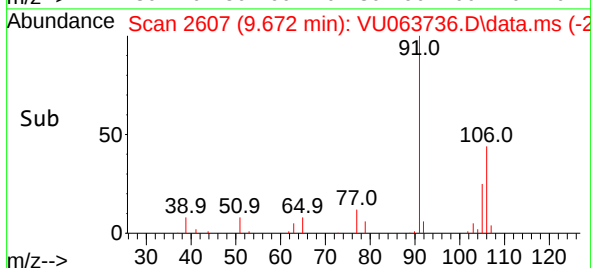
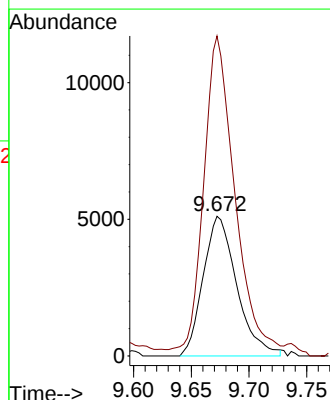
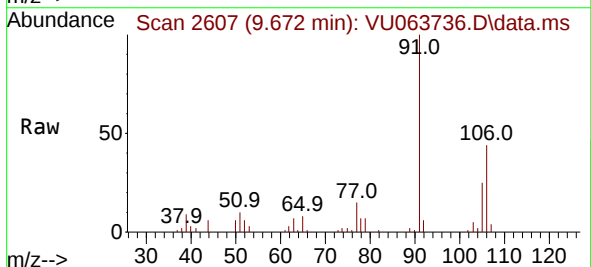
Instrument :
MSVOA_U
ClientSampleId :
MDL-MED-SOIL-QT4-2025-08

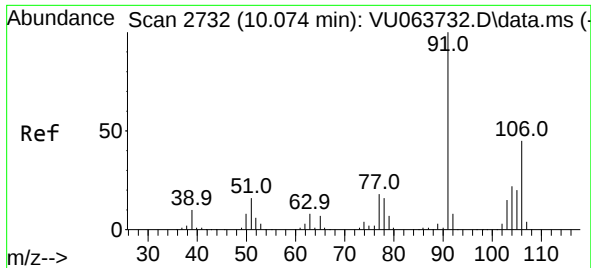
Tgt Ion: 91 Resp: 29219
Ion Ratio Lower Upper
91 100
106 33.2 21.3 39.6



#53
m,p-Xylene
Concen: 2.299 ug/L
RT: 9.672 min Scan# 2607
Delta R.T. 0.003 min
Lab File: VU063736.D
Acq: 18 Nov 2025 12:11

Tgt Ion: 106 Resp: 10339
Ion Ratio Lower Upper
106 100
91 229.1 143.6 266.6

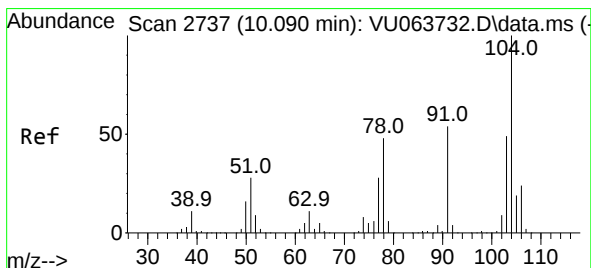
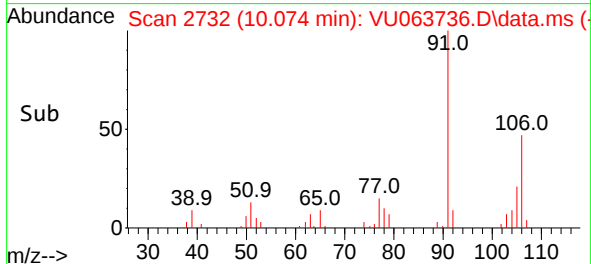
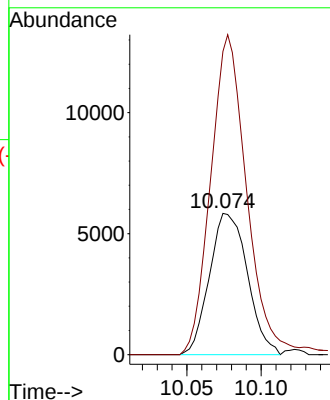
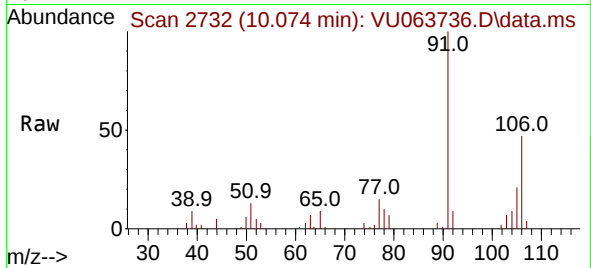




#54
o-Xylene
Concen: 2.369 ug/L
RT: 10.074 min Scan# 21
Delta R.T. -0.000 min
Lab File: VU063736.D
Acq: 18 Nov 2025 12:11

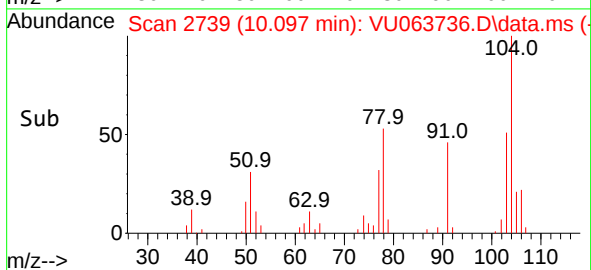
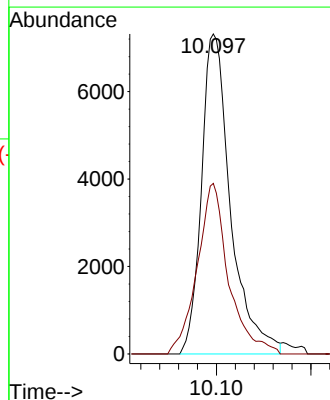
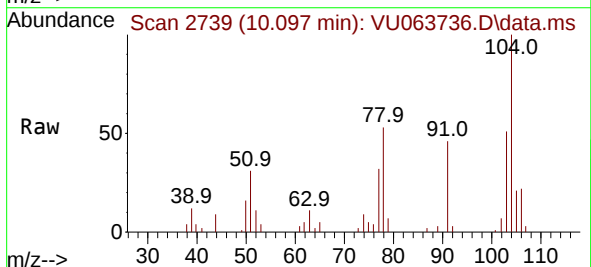
Instrument :
MSVOA_U
ClientSampleId :
MDL-MED-SOIL-QT4-2025-08

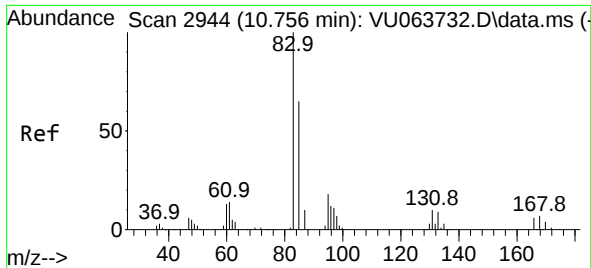
Tgt Ion:106 Resp: 10377
Ion Ratio Lower Upper
106 100
91 214.5 156.0 289.6



#55
Styrene
Concen: 2.207 ug/L
RT: 10.097 min Scan# 2739
Delta R.T. 0.006 min
Lab File: VU063736.D
Acq: 18 Nov 2025 12:11

Tgt Ion:104 Resp: 15661
Ion Ratio Lower Upper
104 100
78 53.3 32.0 59.4

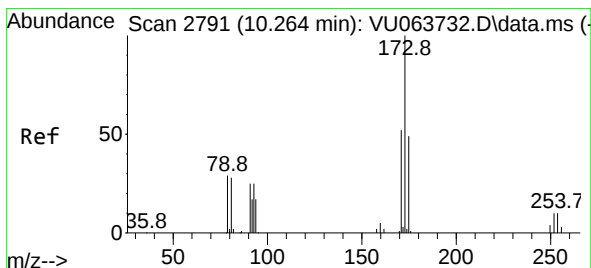
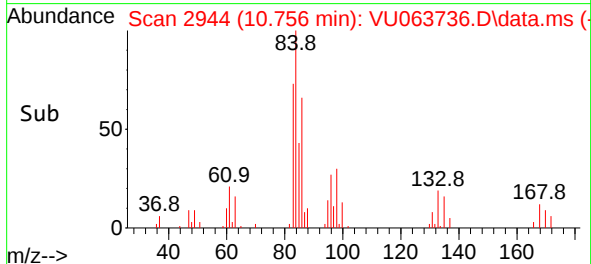
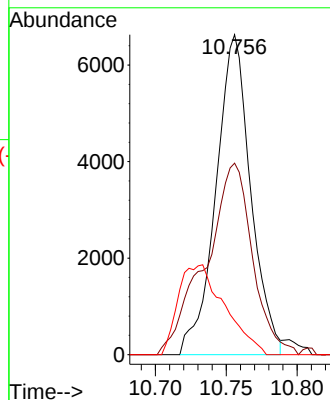
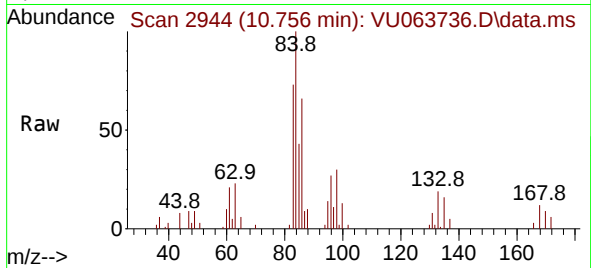




#57
1,1,2,2-Tetrachloroethane
Concen: 2.749 ug/L
RT: 10.756 min Scan# 2944
Delta R.T. -0.000 min
Lab File: VU063736.D
Acq: 18 Nov 2025 12:11

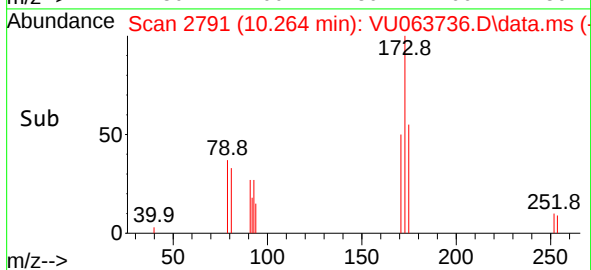
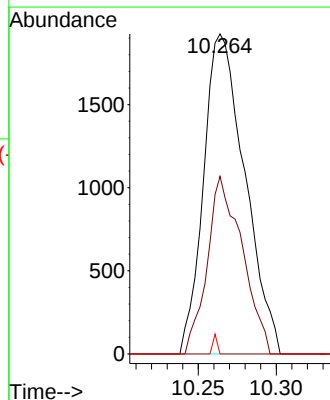
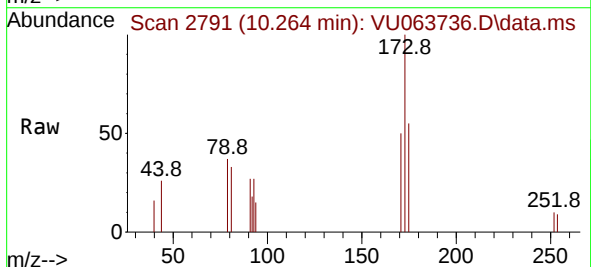
Instrument : MSVOA_U
ClientSampleId : MDL-MED-SOIL-QT4-2025-08

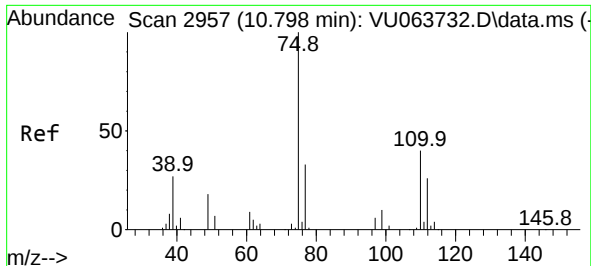
Tgt Ion: 83 Resp: 11327
Ion Ratio Lower Upper
83 100
85 59.8 45.7 84.9
131 13.7 7.4 11.2#



#59
Bromoform
Concen: 2.057 ug/L
RT: 10.264 min Scan# 2791
Delta R.T. -0.000 min
Lab File: VU063736.D
Acq: 18 Nov 2025 12:11

Tgt Ion:173 Resp: 3535
Ion Ratio Lower Upper
173 100
175 47.1 38.2 57.4
254 0.0 6.9 10.3#

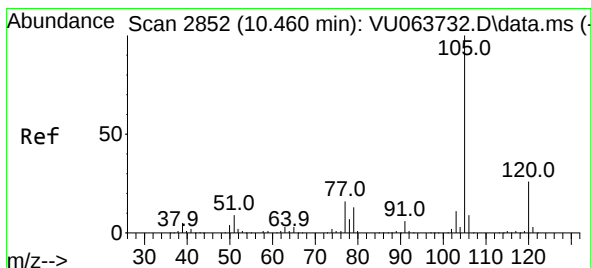
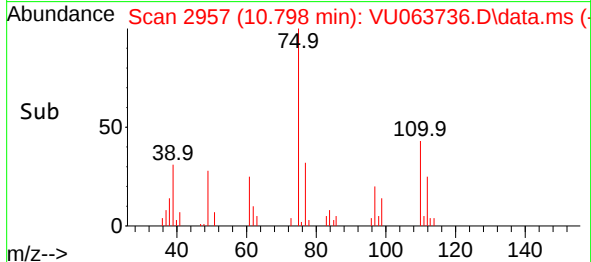
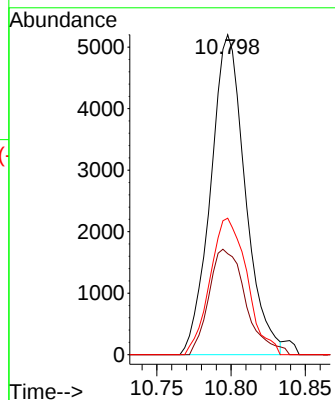
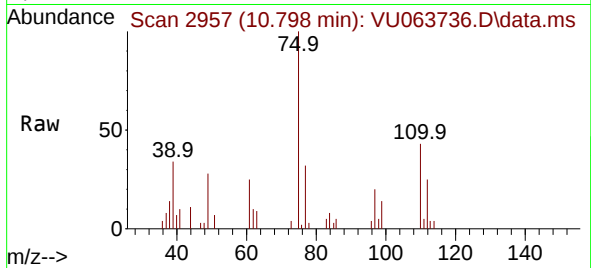




#60
1,2,3-Trichloropropane
Concen: 2.547 ug/L
RT: 10.798 min Scan# 2957
Delta R.T. -0.000 min
Lab File: VU063736.D
Acq: 18 Nov 2025 12:11

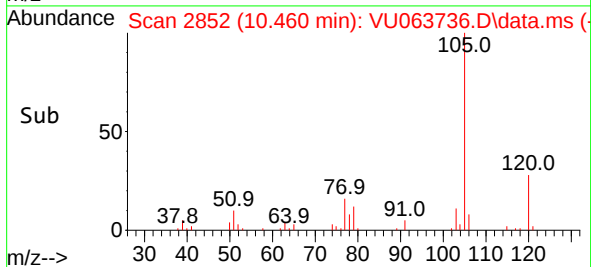
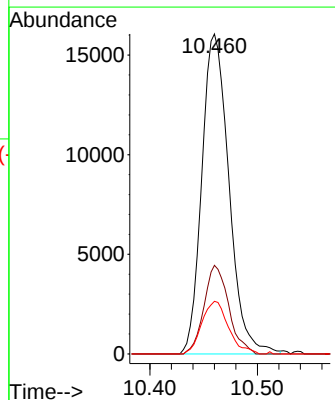
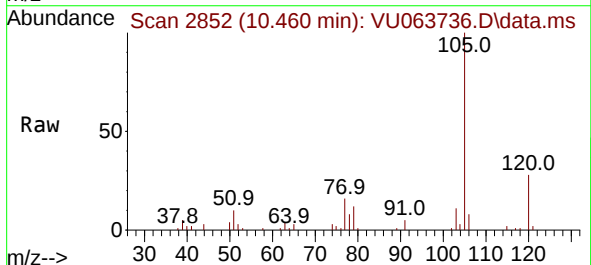
Instrument : MSVOA_U
ClientSampleId : MDL-MED-SOIL-QT4-2025-08

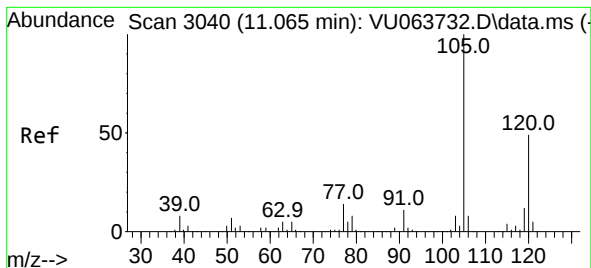
Tgt Ion:	75	Resp:	8412
Ion	Ratio	Lower	Upper
75	100		
77	35.2	26.1	39.1
110	45.6	32.3	48.5



#61
Isopropylbenzene
Concen: 2.470 ug/L
RT: 10.460 min Scan# 2852
Delta R.T. -0.000 min
Lab File: VU063736.D
Acq: 18 Nov 2025 12:11

Tgt Ion:	105	Resp:	28187
Ion	Ratio	Lower	Upper
105	100		
120	25.2	20.7	31.1
77	16.1	12.9	19.3

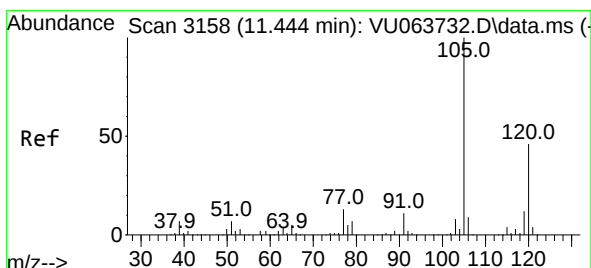
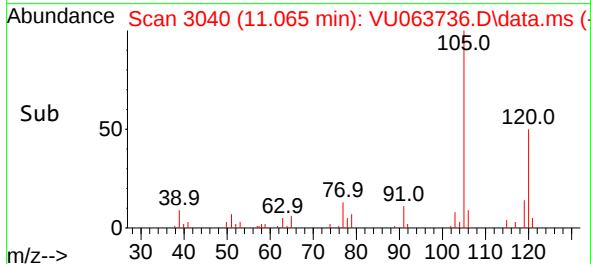
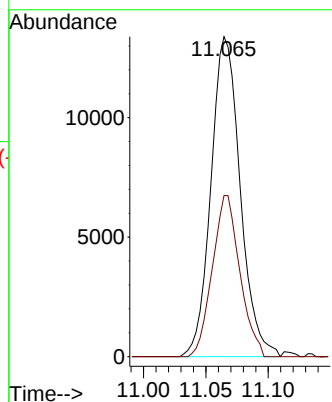
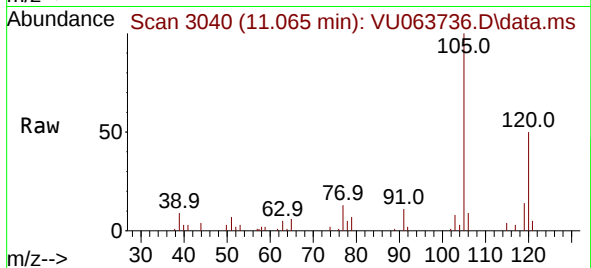




#62
1,3,5-Trimethylbenzene
Concen: 2.332 ug/L
RT: 11.065 min Scan# 3040
Delta R.T. -0.000 min
Lab File: VU063736.D
Acq: 18 Nov 2025 12:11

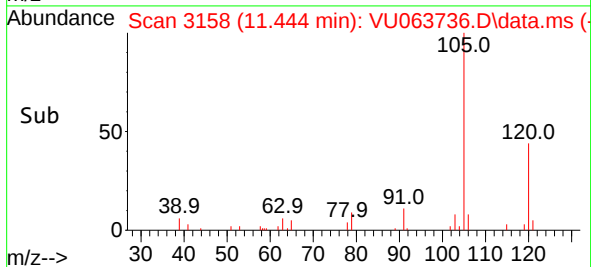
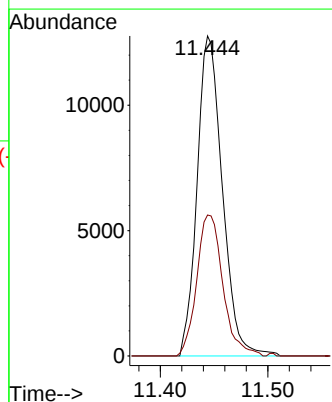
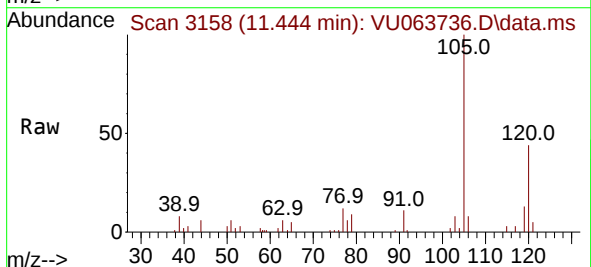
Instrument : MSVOA_U
ClientSampleId : MDL-MED-SOIL-QT4-2025-08

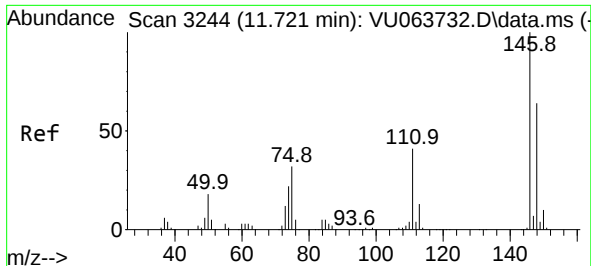
Tgt Ion:105 Resp: 21891
Ion Ratio Lower Upper
105 100
120 47.3 37.8 56.6



#63
1,2,4-Trimethylbenzene
Concen: 2.326 ug/L
RT: 11.444 min Scan# 3158
Delta R.T. -0.000 min
Lab File: VU063736.D
Acq: 18 Nov 2025 12:11

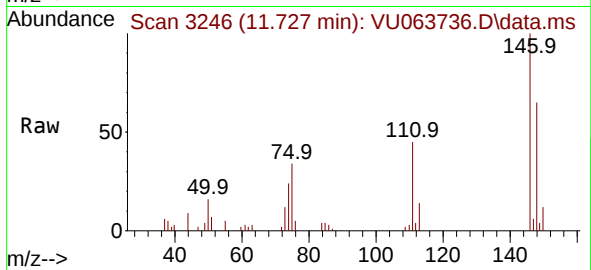
Tgt Ion:105 Resp: 20841
Ion Ratio Lower Upper
105 100
120 45.6 35.6 53.4



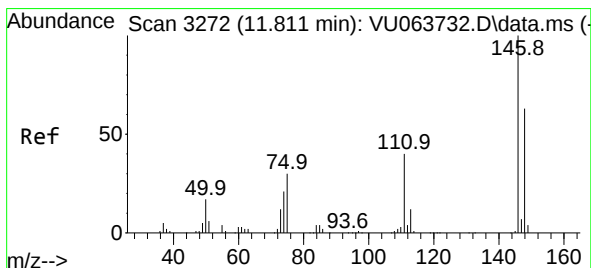
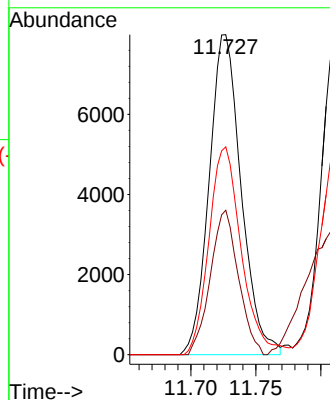
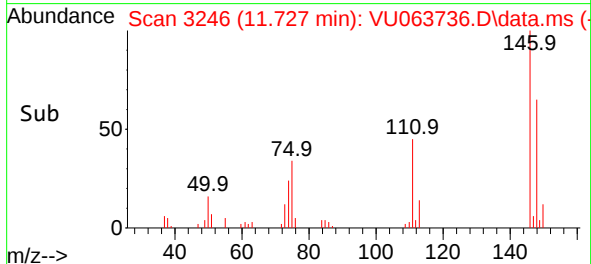


#64
1,3-Dichlorobenzene
Concen: 2.677 ug/L
RT: 11.727 min Scan# 31
Delta R.T. 0.006 min
Lab File: VU063736.D
Acq: 18 Nov 2025 12:11

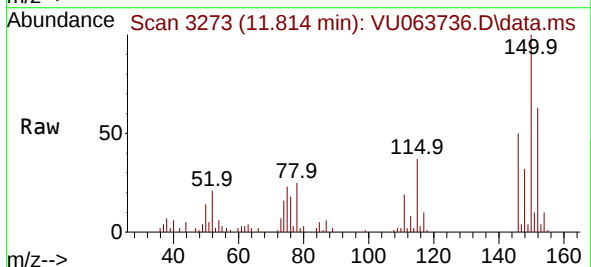
Instrument :
MSVOA_U
ClientSampleId :
MDL-MED-SOIL-QT4-2025-08



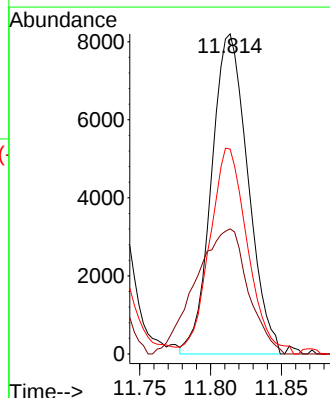
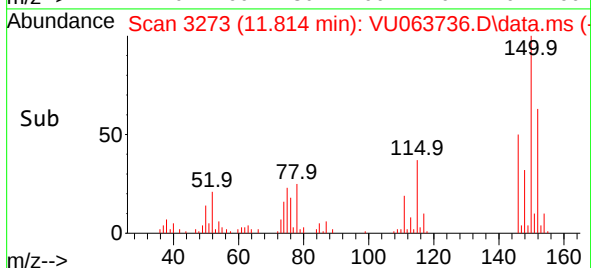
Tgt Ion:146 Resp: 13700
Ion Ratio Lower Upper
146 100
111 49.4 29.8 55.3
148 69.4 44.4 82.4

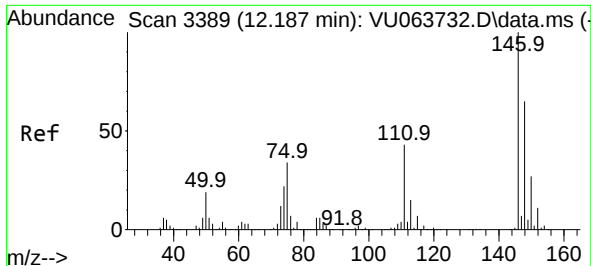


#65
1,4-Dichlorobenzene
Concen: 2.799 ug/L
RT: 11.814 min Scan# 3273
Delta R.T. 0.003 min
Lab File: VU063736.D
Acq: 18 Nov 2025 12:11



Tgt Ion:146 Resp: 14671
Ion Ratio Lower Upper
146 100
111 43.5 28.8 53.4
148 64.1 44.9 83.3





#67

1,2-Dichlorobenzene

Concen: 2.819 ug/L

RT: 12.187 min Scan# 31

Delta R.T. -0.000 min

Lab File: VU063736.D

Acq: 18 Nov 2025 12:11

Instrument :

MSVOA_U

ClientSampleId :

MDL-MED-SOIL-QT4-2025-08

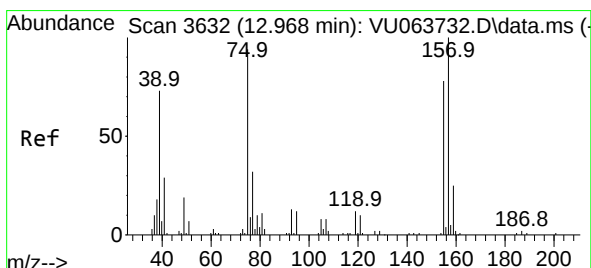
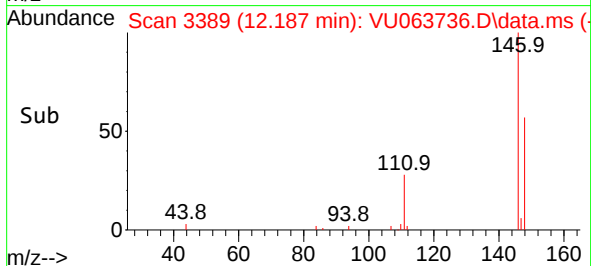
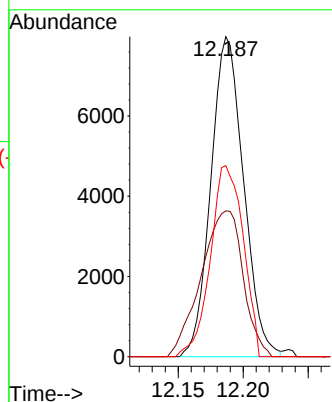
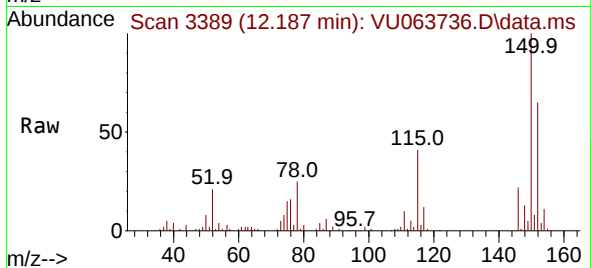
Tgt Ion:146 Resp: 13985

Ion Ratio Lower Upper

146 100

111 43.0 34.2 51.4

148 56.4 49.6 74.4



#68

1,2-Dibromo-3-chloropropane

Concen: 2.476 ug/L

RT: 12.971 min Scan# 3633

Delta R.T. 0.003 min

Lab File: VU063736.D

Acq: 18 Nov 2025 12:11

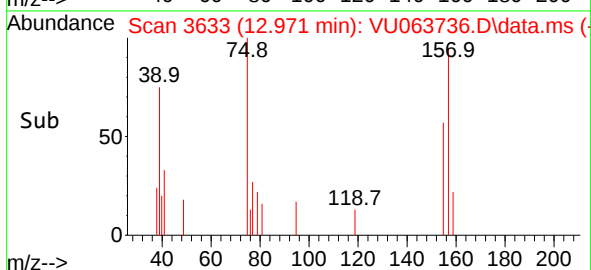
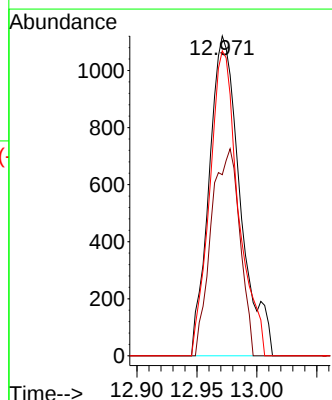
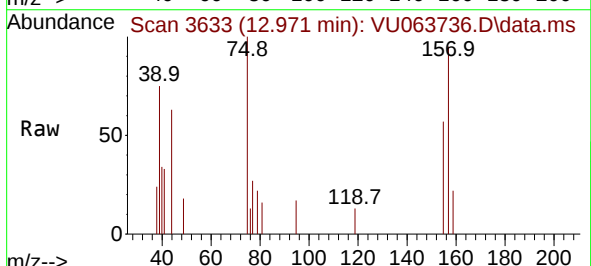
Tgt Ion: 75 Resp: 2019

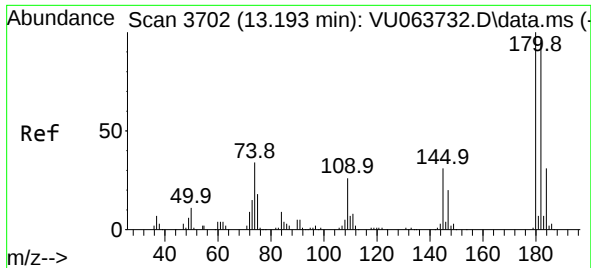
Ion Ratio Lower Upper

75 100

155 56.6 64.6 97.0#

157 95.4 78.8 118.2

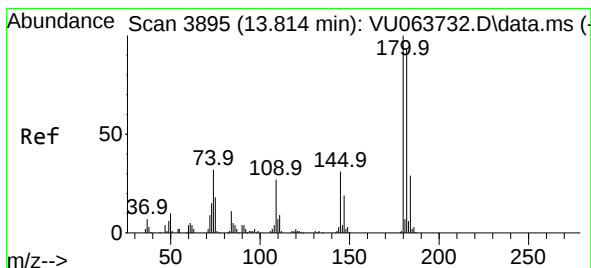
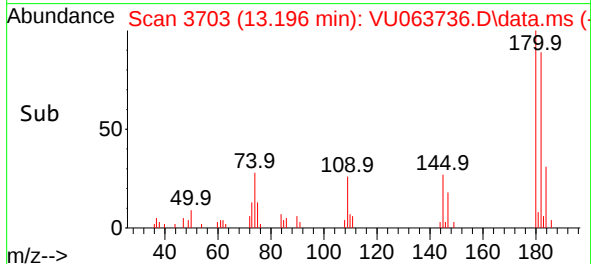
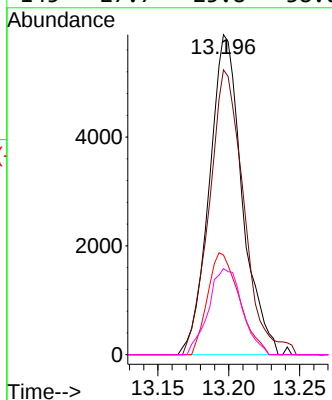
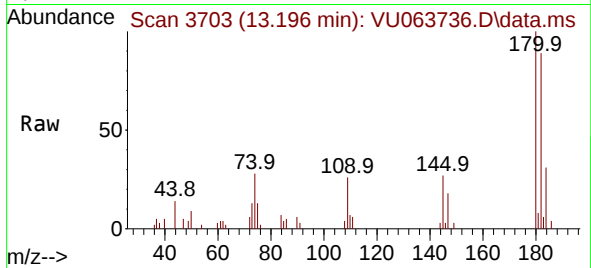




#69
 1,3,5-Trichlorobenzene
 Concen: 2.741 ug/L
 RT: 13.196 min Scan# 31
 Delta R.T. 0.003 min
 Lab File: VU063736.D
 Acq: 18 Nov 2025 12:11

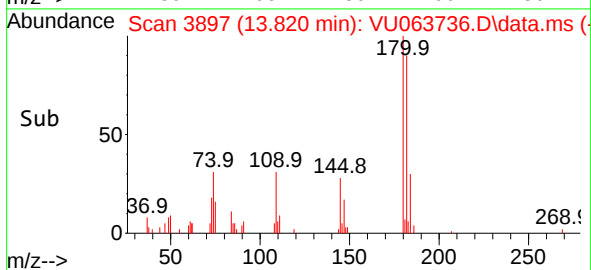
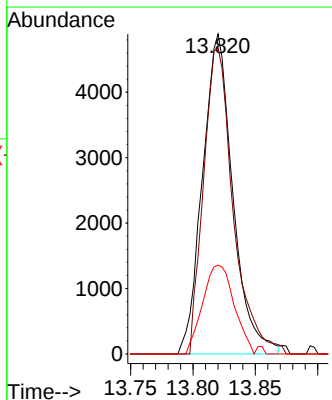
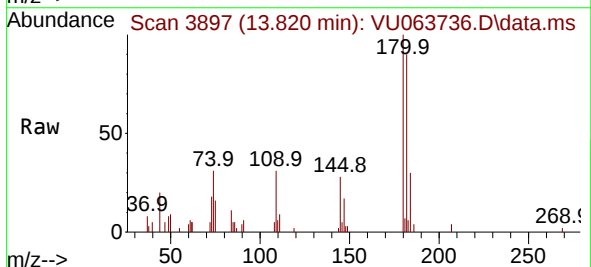
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-MED-SOIL-QT4-2025-08

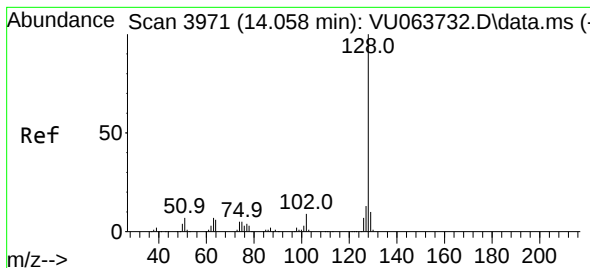
Tgt Ion:	180	Resp:	9480
Ion Ratio	Lower	Upper	
180	100		
182	93.5	76.4	114.6
184	30.8	24.4	36.6
145	27.7	25.8	38.6



#70
 1,2,4-trichlorobenzene
 Concen: 2.869 ug/L
 RT: 13.820 min Scan# 3897
 Delta R.T. 0.006 min
 Lab File: VU063736.D
 Acq: 18 Nov 2025 12:11

Tgt Ion:	180	Resp:	8272
Ion Ratio	Lower	Upper	
180	100		
182	93.1	75.8	113.8
145	28.7	25.7	38.5





#71

Naphthalene

Concen: 3.028 ug/L

RT: 14.068 min Scan# 3971

Delta R.T. 0.010 min

Lab File: VU063736.D

Acq: 18 Nov 2025 12:11

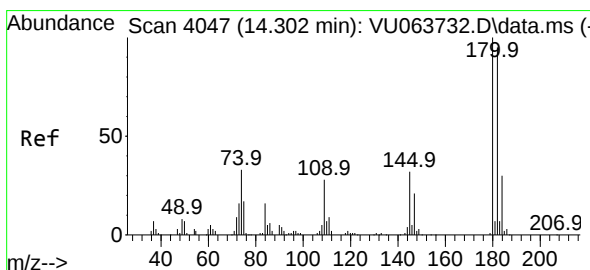
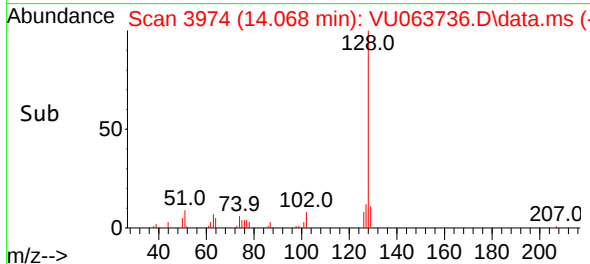
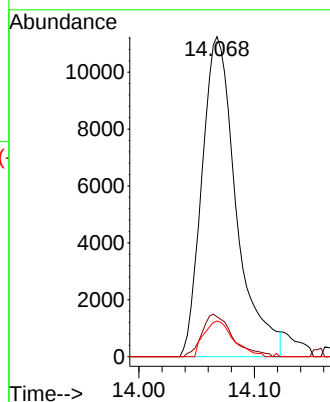
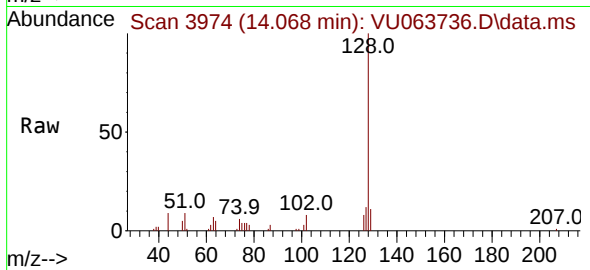
Instrument :

MSVOA_U

ClientSampleId :

MDL-MED-SOIL-QT4-2025-08

Tgt Ion:128	Resp:	23240
Ion Ratio	Lower	Upper
128	100	
127	11.8	10.3 15.5
129	9.5	8.7 13.1



#72

1,2,3-Trichlorobenzene

Concen: 2.867 ug/L

RT: 14.306 min Scan# 4048

Delta R.T. 0.003 min

Lab File: VU063736.D

Acq: 18 Nov 2025 12:11

Tgt Ion:180	Resp:	7837
Ion Ratio	Lower	Upper
180	100	
182	99.7	76.9 115.3
145	31.1	26.6 39.8

