

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU111725\
 Data File : VU063729.D
 Acq On : 17 Nov 2025 15:57
 Operator : MD/SY
 Sample : Q3589-05
 Misc : 5.00g/5.0mL/100uL/5.0mL/MSVOA_U/MEOH
 ALS Vial : 13 Sample Multiplier: 1

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

Quant Time: Nov 18 02:21:08 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM111725WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Nov 18 01:55:44 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.219	114	312837	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.393	117	302024	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.788	152	154763	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.586	65	121047	44.808	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	89.620%
7) Chloroethane-d5	1.895	69	94105	45.215	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	90.440%
11) 1,1-Dichloroethene-d2	2.541	63	165914	35.432	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	70.860%
21) 2-Butanone-d5	4.595	46	147153	95.548	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	95.550%
24) Chloroform-d	5.030	84	201939	44.553	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	89.100%
26) 1,2-Dichloroethane-d4	5.669	65	139130	46.681	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.360%
32) Benzene-d6	5.695	84	408555	46.149	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.300%
36) 1,2-Dichloropropane-d6	6.660	67	124327	47.838	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	95.680%
41) Toluene-d8	7.872	98	378456	45.025	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	90.040%
43) trans-1,3-Dichloroprop...	8.155	79	47349	44.087	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	88.180%
47) 2-Hexanone-d5	8.611	63	90024	95.271	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	95.270%
56) 1,1,2,2-Tetrachloroeth...	10.730	84	176205	46.362	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	92.720%
66) 1,2-Dichlorobenzene-d4	12.168	152	141760	48.522	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.040%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.374	85	4090	2.246	ug/L	94
3) Chloromethane	1.509	50	4890	2.374	ug/L	94
5) Vinyl chloride	1.589	62	6061	2.530	ug/L #	75
6) Bromomethane	1.837	94	4063	2.677	ug/L	94
8) Chloroethane	1.914	64	3968	2.482	ug/L	99
9) Trichlorofluoromethane	2.116	101	8612	2.280	ug/L	98
10) 1,1,2-Trichloro-1,2,2-...	2.547	101	6152	2.755	ug/L #	77
12) 1,1-Dichloroethene	2.551	96	6161	3.017	ug/L #	1
13) Acetone	2.608	43	10066	4.829	ug/L	94
14) Carbon disulfide	2.766	76	13431	2.525	ug/L	99
15) Methyl Acetate	2.936	43	5649	2.257	ug/L #	88
16) Methylene chloride	3.020	84	6732	2.828	ug/L	96
17) trans-1,2-Dichloroethene	3.332	96	5681	2.609	ug/L	97
18) Methyl tert-butyl Ether	3.335	73	16347	2.219	ug/L	97
19) 1,1-Dichloroethane	3.837	63	4602	1.097	ug/L	98
20) cis-1,2-Dichloroethene	4.637	96	6415	2.560	ug/L	86
22) 2-Butanone	4.602	43	931	0.402	ug/L	80
23) Bromochloromethane	4.943	128	1666	1.293	ug/L	91
25) Chloroform	5.055	83	11580	2.550	ug/L	93

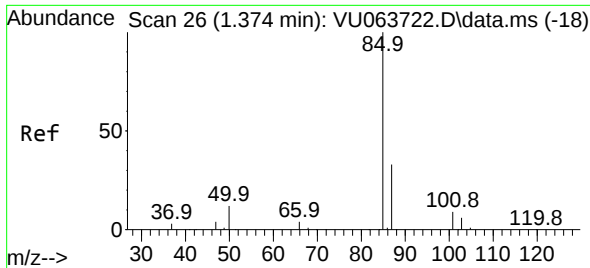
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 Quant Title : VOC Analysis
 QLast Update : Tue Nov 18 01:55:44 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
27) 1,2-Dichloroethane	5.772	62	8610	2.323	ug/L	99
29) Cyclohexane	5.354	56	8212	2.161	ug/L #	88
30) 1,1,1-Trichloroethane	5.284	97	8389	2.175	ug/L	97
31) Carbon tetrachloride	5.496	117	5569	1.836	ug/L	95
33) Benzene	5.750	78	21095	2.290	ug/L	100
34) Trichloroethene	6.521	95	6363	2.396	ug/L	83
35) Methylcyclohexane	6.734	83	9231	2.368	ug/L	93
37) 1,2-Dichloropropane	6.763	63	5665	2.366	ug/L #	93
38) Bromodichloromethane	7.078	83	7087	2.162	ug/L	93
39) cis-1,3-Dichloropropene	7.586	75	8381	2.361	ug/L	100
40) 4-Methyl-2-pentanone	7.772	43	16923	4.884	ug/L	90
42) Toluene	7.946	91	23239	2.285	ug/L	99
44) trans-1,3-Dichloropropene	8.190	75	7661	2.472	ug/L	96
45) 1,1,2-Trichloroethane	8.377	97	6008	2.373	ug/L	95
46) Tetrachloroethene	8.528	164	4999	2.462	ug/L	94
48) 2-Hexanone	8.663	43	22865	8.407	ug/L #	91
49) Dibromochloromethane	8.782	129	4841	1.980	ug/L	100
50) 1,2-Dibromoethane	8.898	107	6499	2.446	ug/L #	98
51) Chlorobenzene	9.422	112	16777	2.445	ug/L	97
52) Ethylbenzene	9.547	91	26612	2.254	ug/L	99
53) m,p-Xylene	9.672	106	9971	2.215	ug/L	100
54) o-Xylene	10.078	106	9504	2.168	ug/L	98
55) Styrene	10.097	104	15246	2.147	ug/L	99
57) 1,1,2,2-Tetrachloroethane	10.756	83	11116	2.696	ug/L #	96
59) Bromoform	10.267	173	3416	1.944	ug/L	98
60) 1,2,3-Trichloropropane	10.798	75	8770	2.596	ug/L	96
61) Isopropylbenzene	10.460	105	25467	2.181	ug/L	98
62) 1,3,5-Trimethylbenzene	11.065	105	20972	2.184	ug/L	100
63) 1,2,4-Trimethylbenzene	11.444	105	20140	2.197	ug/L	98
64) 1,3-Dichlorobenzene	11.724	146	13194	2.521	ug/L	93
65) 1,4-Dichlorobenzene	11.814	146	15454	2.883	ug/L	99
67) 1,2-Dichlorobenzene	12.190	146	13187	2.599	ug/L	100
68) 1,2-Dibromo-3-chloropr...	12.971	75	1738	2.084	ug/L #	70
69) 1,3,5-Trichlorobenzene	13.196	180	9522	2.692	ug/L	98
70) 1,2,4-trichlorobenzene	13.820	180	8868	3.006	ug/L	99
71) Naphthalene	14.068	128	30357	3.867	ug/L	98
72) 1,2,3-Trichlorobenzene	14.306	180	8424	3.013	ug/L	98

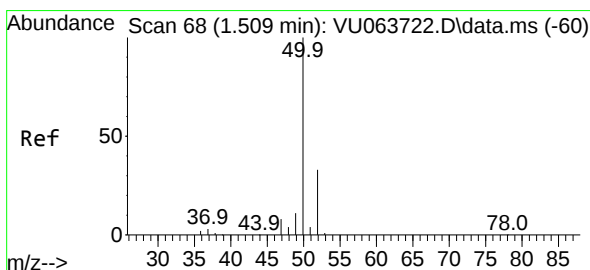
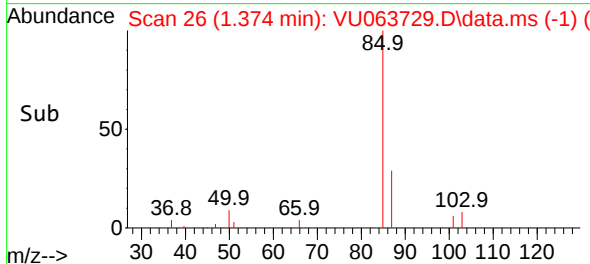
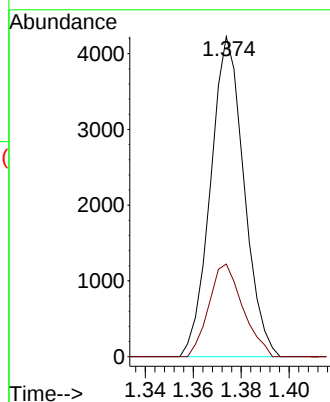
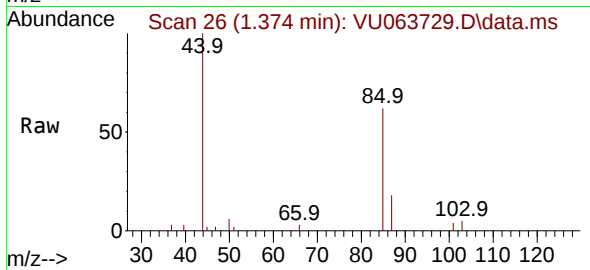
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#2
 Dichlorodifluoromethane
 Concen: 2.246 ug/L
 RT: 1.374 min Scan# 2
 Delta R.T. 0.000 min
 Lab File: VU063729.D
 Acq: 17 Nov 2025 15:57

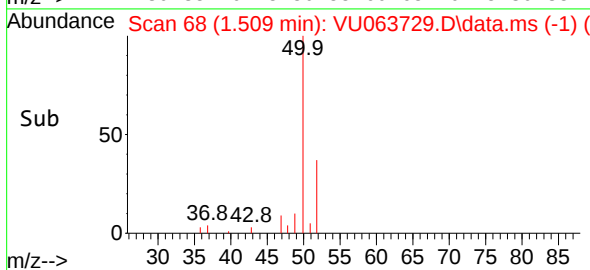
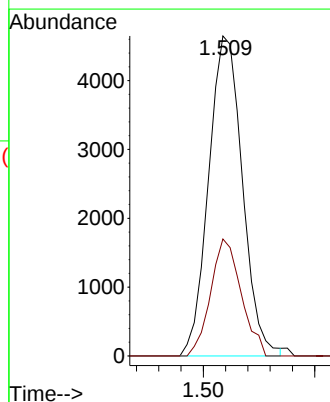
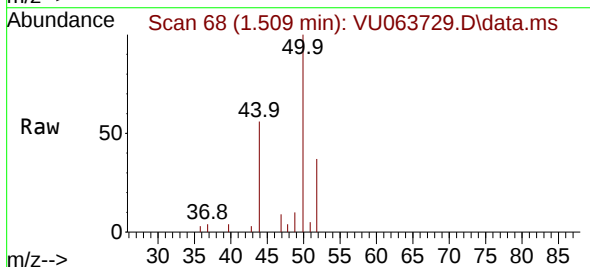
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-MED-SOIL-QT4-2025-07

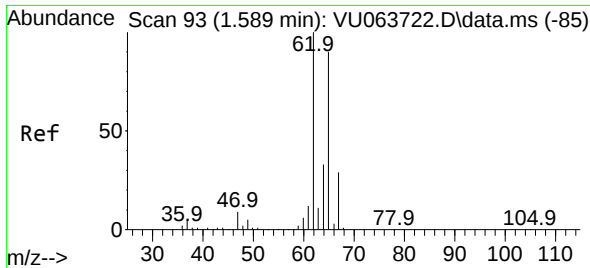
Tgt Ion: 85 Resp: 4090
 Ion Ratio Lower Upper
 85 100
 87 29.4 26.2 39.2



#3
 Chloromethane
 Concen: 2.374 ug/L
 RT: 1.509 min Scan# 68
 Delta R.T. 0.000 min
 Lab File: VU063729.D
 Acq: 17 Nov 2025 15:57

Tgt Ion: 50 Resp: 4890
 Ion Ratio Lower Upper
 50 100
 52 36.6 23.2 43.2

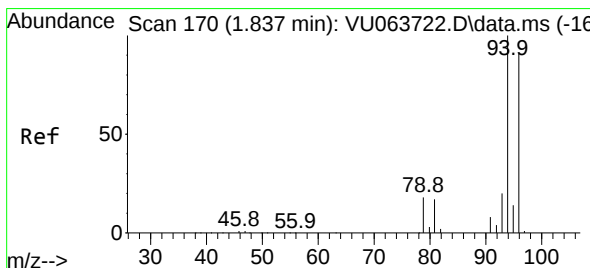
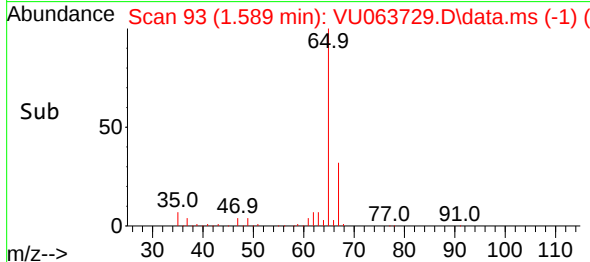
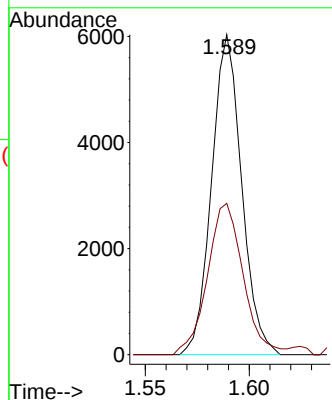
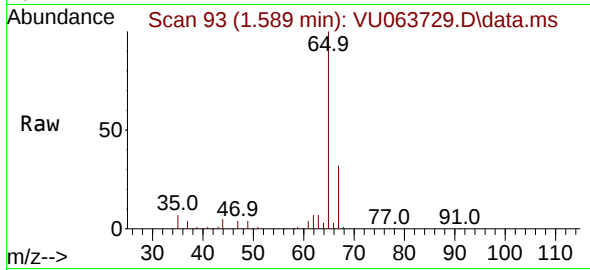




#5
 Vinyl chloride
 Concen: 2.530 ug/L
 RT: 1.589 min Scan# 91
 Delta R.T. 0.000 min
 Lab File: VU063729.D
 Acq: 17 Nov 2025 15:57

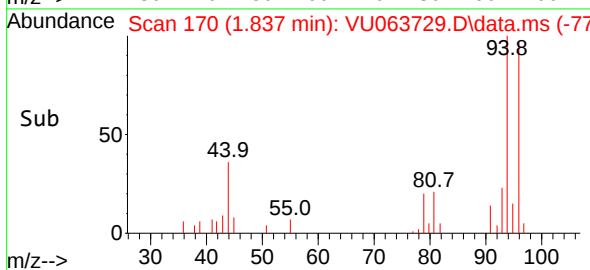
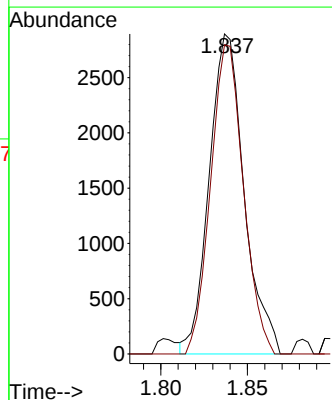
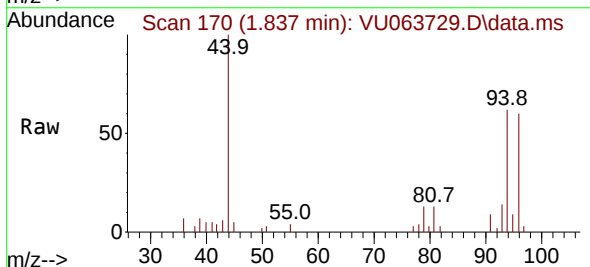
Instrument :
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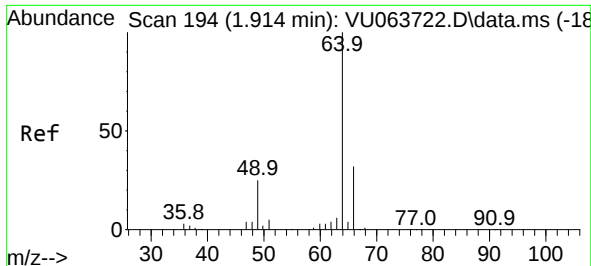
Tgt Ion: 62 Resp: 6061
 Ion Ratio Lower Upper
 62 100
 64 47.3 23.2 43.2#



#6
 Bromomethane
 Concen: 2.677 ug/L
 RT: 1.837 min Scan# 170
 Delta R.T. 0.000 min
 Lab File: VU063729.D
 Acq: 17 Nov 2025 15:57

Tgt Ion: 94 Resp: 4063
 Ion Ratio Lower Upper
 94 100
 96 96.6 63.8 118.4

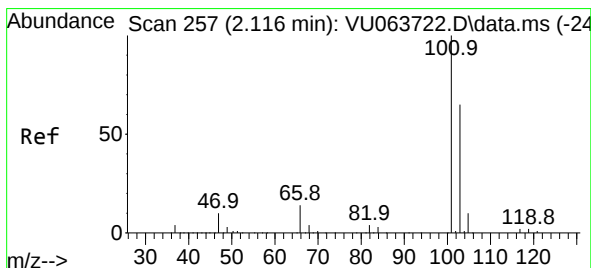
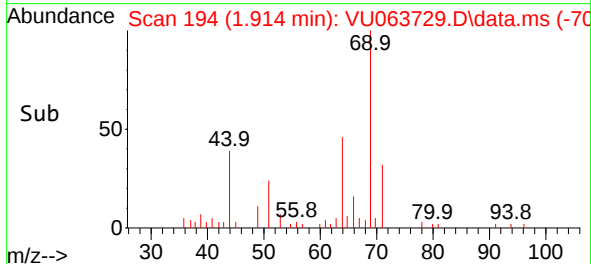
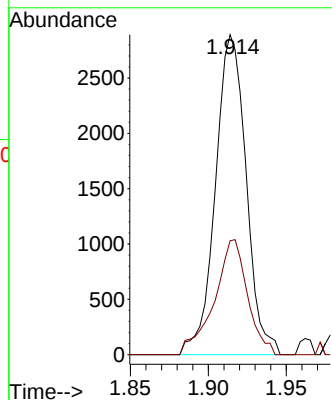
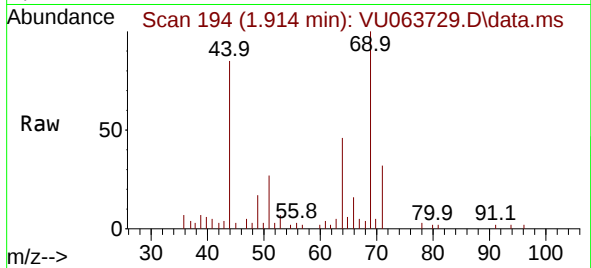




#8
Chloroethane
Concen: 2.482 ug/L
RT: 1.914 min Scan# 194
Delta R.T. 0.000 min
Lab File: VU063729.D
Acq: 17 Nov 2025 15:57

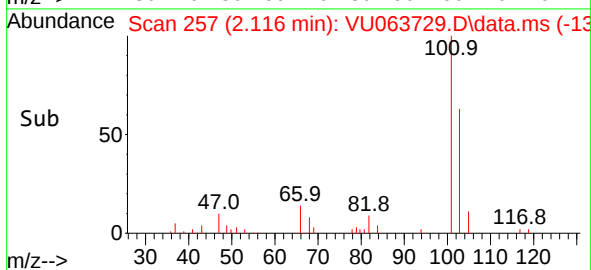
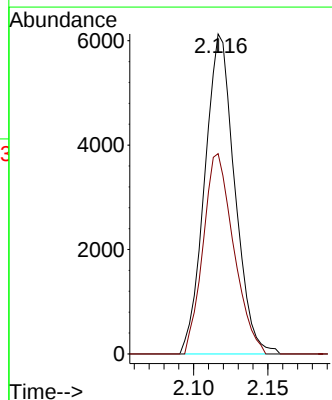
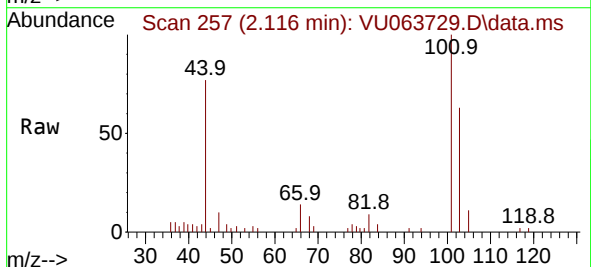
Instrument : MSVOA_U
ClientSampleId : MDL-MED-SOIL-QT4-2025-07

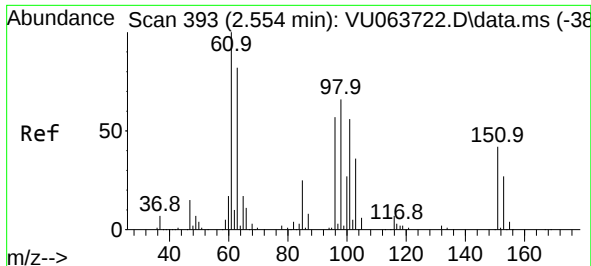
Tgt Ion: 64 Resp: 3968
Ion Ratio Lower Upper
64 100
66 31.3 22.4 41.6



#9
Trichlorofluoromethane
Concen: 2.280 ug/L
RT: 2.116 min Scan# 257
Delta R.T. 0.000 min
Lab File: VU063729.D
Acq: 17 Nov 2025 15:57

Tgt Ion:101 Resp: 8612
Ion Ratio Lower Upper
101 100
103 63.7 52.0 78.0

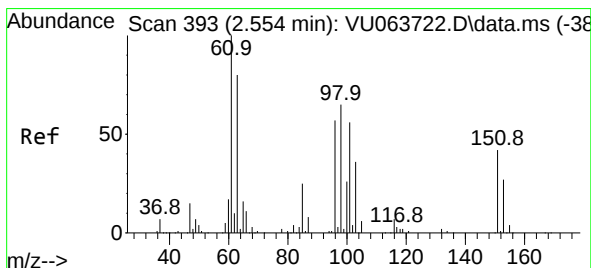
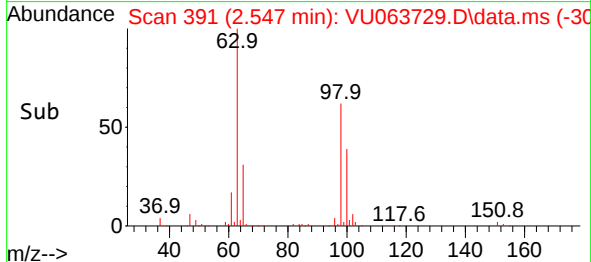
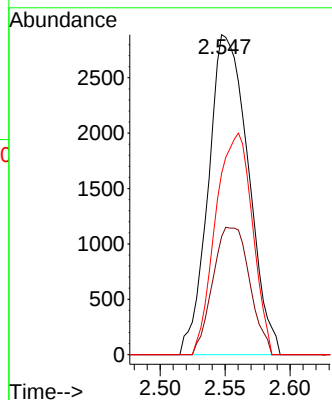
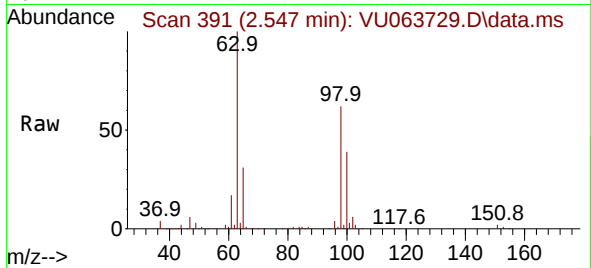




#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 2.755 ug/L
RT: 2.547 min Scan# 391
Delta R.T. -0.006 min
Lab File: VU063729.D
Acq: 17 Nov 2025 15:57

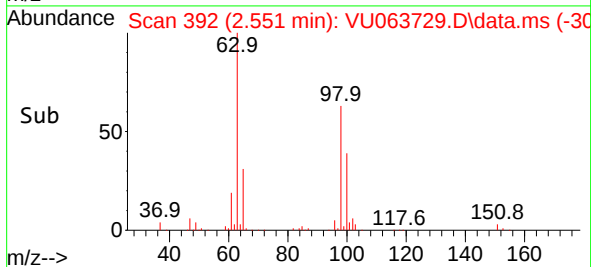
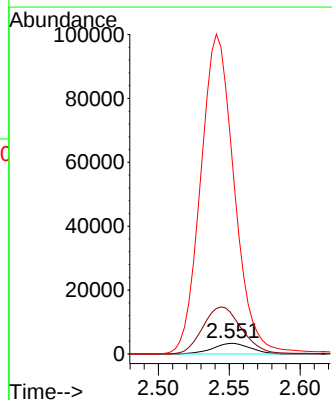
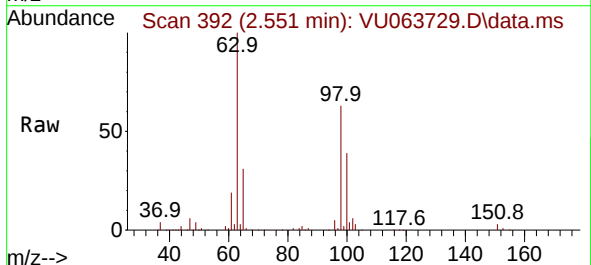
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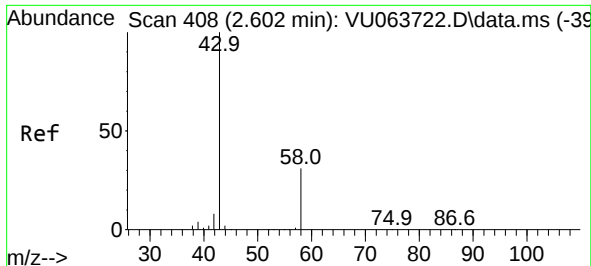
Tgt Ion:101 Resp: 6152
Ion Ratio Lower Upper
101 100
85 19.0 36.3 54.5#
151 63.8 60.1 90.1



#12
1,1-Dichloroethene
Concen: 3.017 ug/L
RT: 2.551 min Scan# 392
Delta R.T. -0.003 min
Lab File: VU063729.D
Acq: 17 Nov 2025 15:57

Tgt Ion: 96 Resp: 6161
Ion Ratio Lower Upper
96 100
61 394.3 123.3 228.9#
63 2058.5 103.3 191.8#





#13

Acetone

Concen: 4.829 ug/L

RT: 2.608 min Scan# 410

Delta R.T. 0.007 min

Lab File: VU063729.D

Acq: 17 Nov 2025 15:57

Instrument :

MSVOA_U

ClientSampleId :

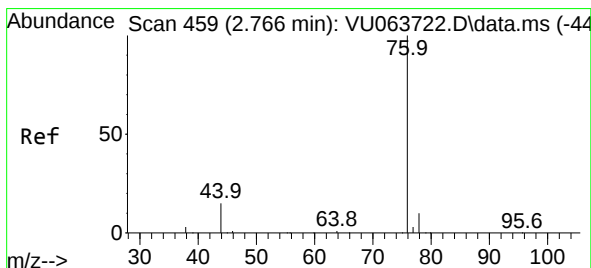
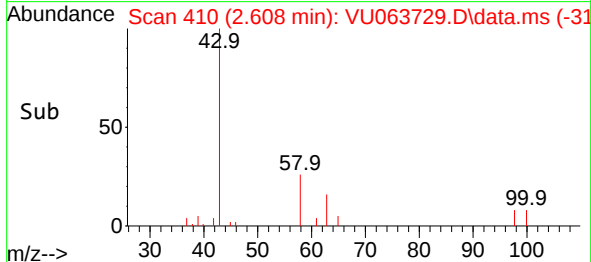
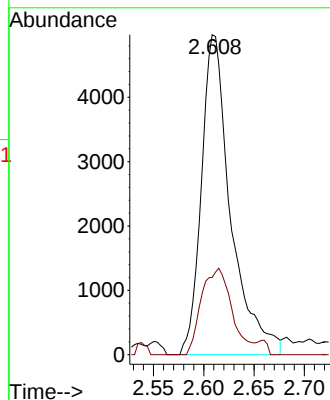
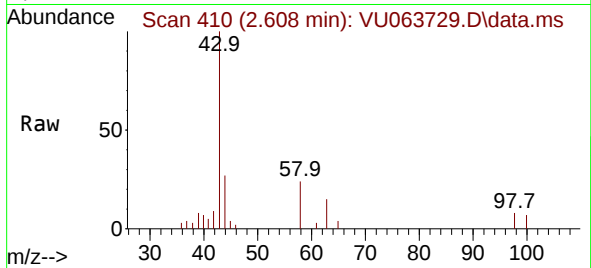
MDL-MED-SOIL-QT4-2025-07

Tgt Ion: 43 Resp: 10066

Ion Ratio Lower Upper

43 100

58 28.2 0.0 63.4



#14

Carbon disulfide

Concen: 2.525 ug/L

RT: 2.766 min Scan# 459

Delta R.T. 0.000 min

Lab File: VU063729.D

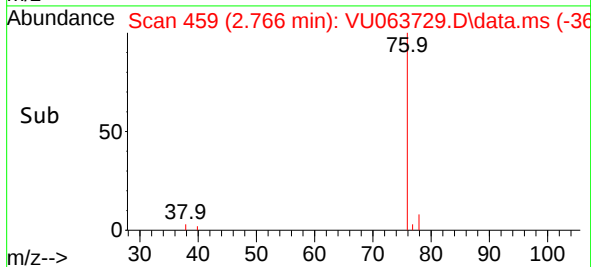
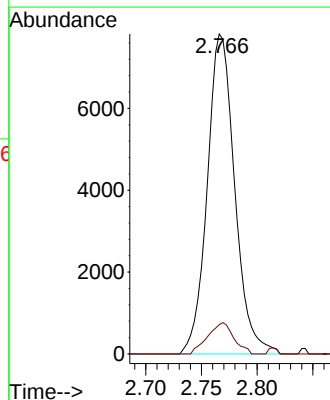
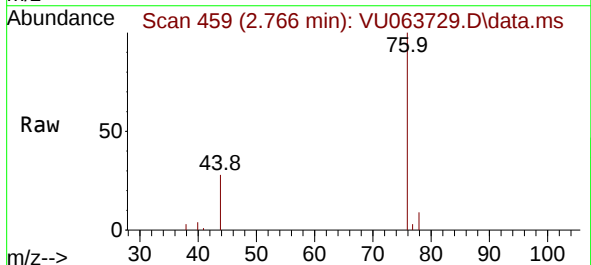
Acq: 17 Nov 2025 15:57

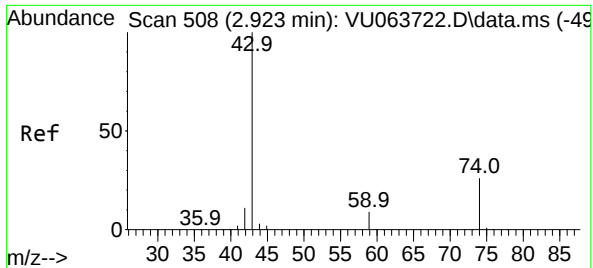
Tgt Ion: 76 Resp: 13431

Ion Ratio Lower Upper

76 100

78 9.2 7.8 11.6

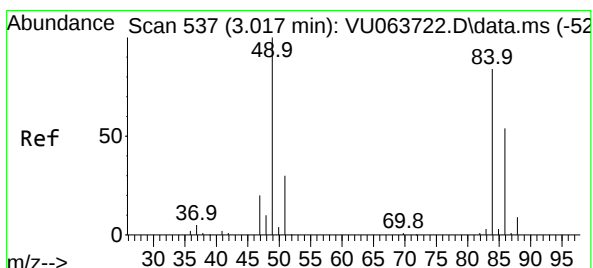
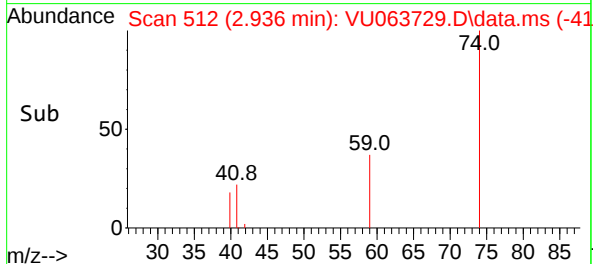
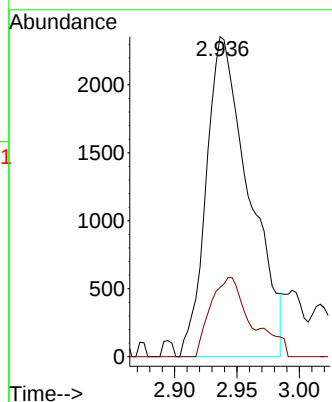
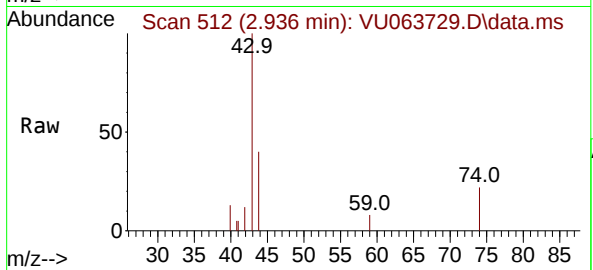




#15
Methyl Acetate
Concen: 2.257 ug/L
RT: 2.936 min Scan# 512
Delta R.T. 0.013 min
Lab File: VU063729.D
Acq: 17 Nov 2025 15:57

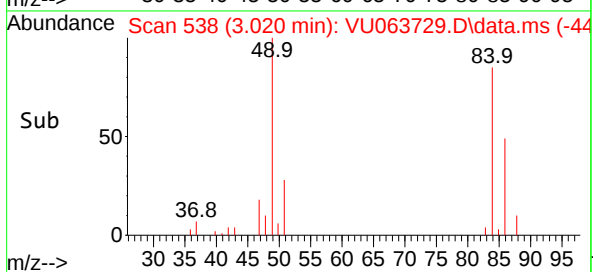
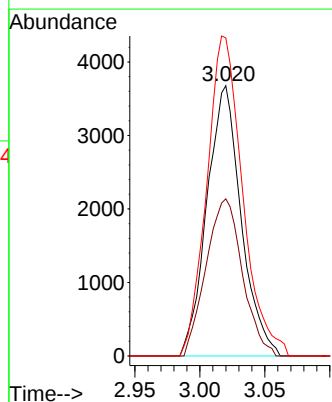
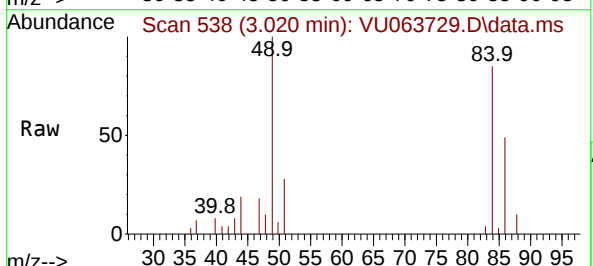
Instrument :
MSVOA_U
ClientSampleId :
MDL-MED-SOIL-QT4-2025-07

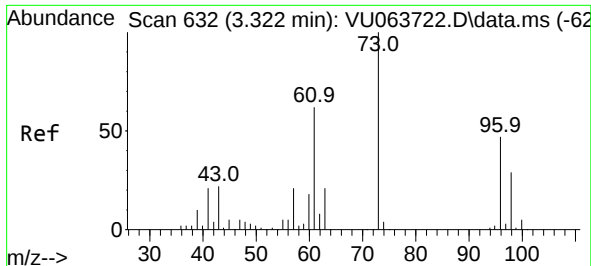
Tgt Ion: 43 Resp: 5649
Ion Ratio Lower Upper
43 100
74 19.6 20.5 30.7#



#16
Methylene chloride
Concen: 2.828 ug/L
RT: 3.020 min Scan# 538
Delta R.T. 0.003 min
Lab File: VU063729.D
Acq: 17 Nov 2025 15:57

Tgt Ion: 84 Resp: 6732
Ion Ratio Lower Upper
84 100
86 58.2 45.2 84.0
49 117.8 83.6 155.2

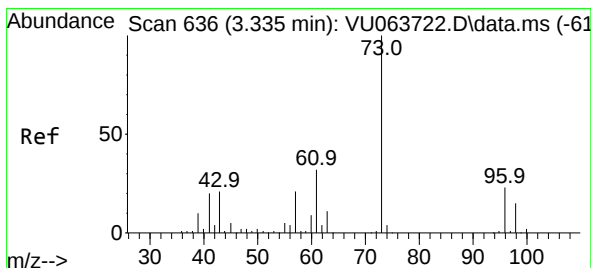
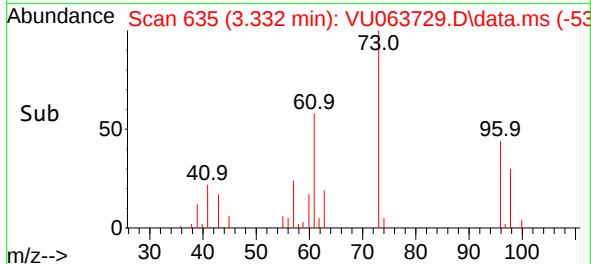
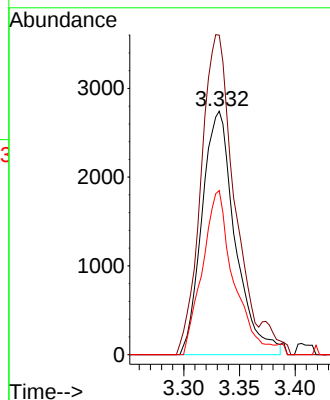
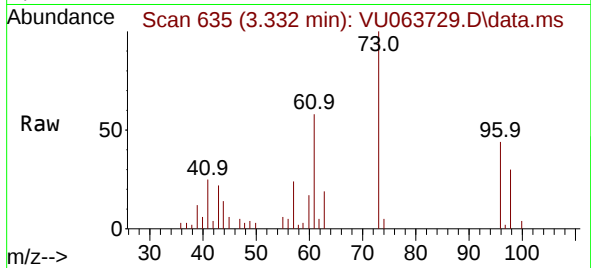




#17
trans-1,2-Dichloroethene
Concen: 2.609 ug/L
RT: 3.332 min Scan# 61
Delta R.T. 0.010 min
Lab File: VU063729.D
Acq: 17 Nov 2025 15:57

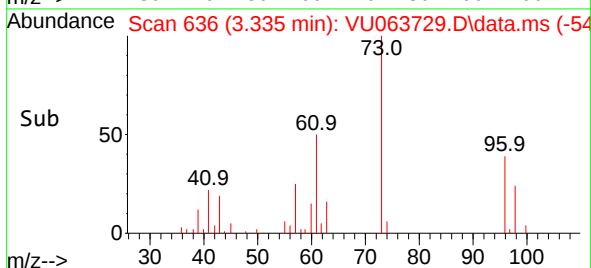
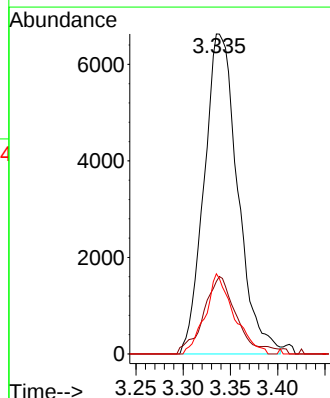
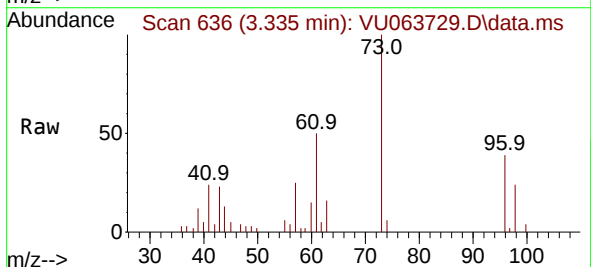
Instrument :
MSVOA_U
ClientSampleId :
MDL-MED-SOIL-QT4-2025-07

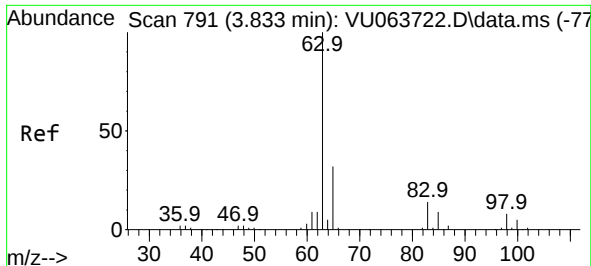
Tgt Ion: 96 Resp: 5681
Ion Ratio Lower Upper
96 100
61 131.2 92.7 172.1
98 67.4 43.2 80.2



#18
Methyl tert-butyl Ether
Concen: 2.219 ug/L
RT: 3.335 min Scan# 636
Delta R.T. 0.000 min
Lab File: VU063729.D
Acq: 17 Nov 2025 15:57

Tgt Ion: 73 Resp: 16347
Ion Ratio Lower Upper
73 100
43 22.9 16.6 24.8
57 21.3 16.3 24.5





#19

1,1-Dichloroethane

Concen: 1.097 ug/L

RT: 3.837 min Scan# 791

Delta R.T. 0.003 min

Lab File: VU063729.D

Acq: 17 Nov 2025 15:57

Instrument :

MSVOA_U

ClientSampleId :

MDL-MED-SOIL-QT4-2025-07

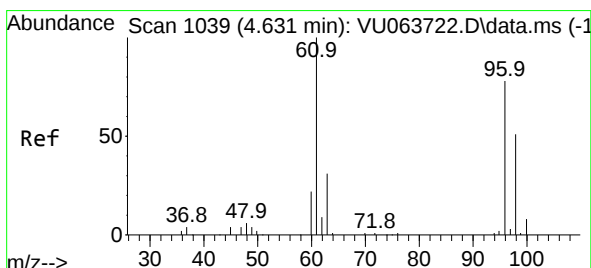
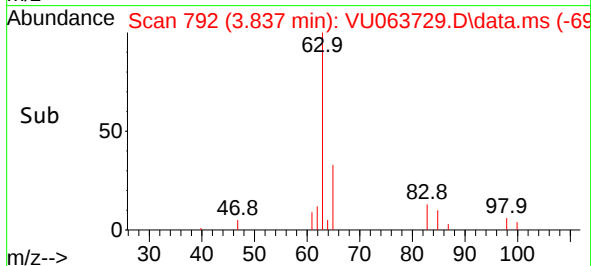
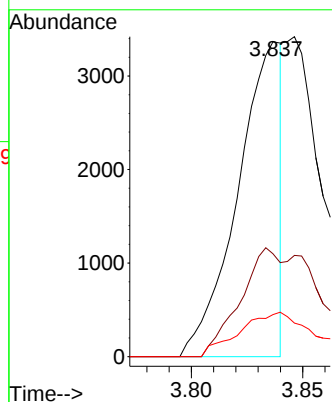
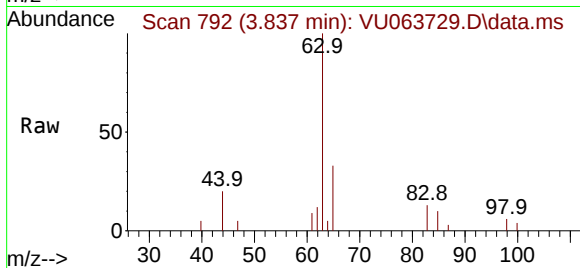
Tgt Ion: 63 Resp: 4602

Ion Ratio Lower Upper

63 100

65 32.7 22.0 41.0

83 13.4 9.5 17.7



#20

cis-1,2-Dichloroethene

Concen: 2.560 ug/L

RT: 4.637 min Scan# 1041

Delta R.T. 0.007 min

Lab File: VU063729.D

Acq: 17 Nov 2025 15:57

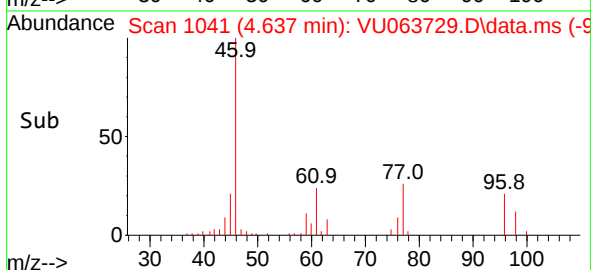
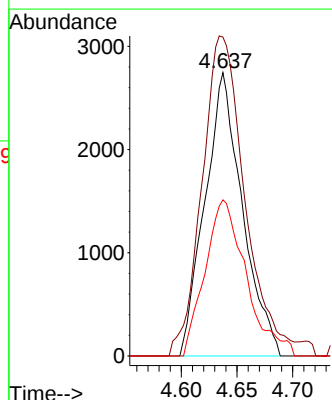
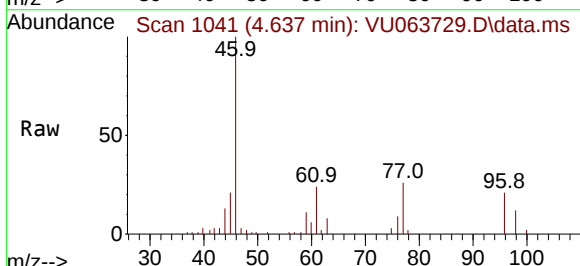
Tgt Ion: 96 Resp: 6415

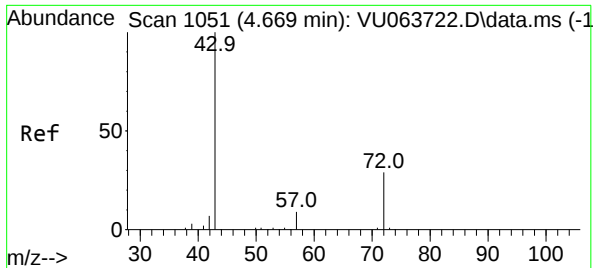
Ion Ratio Lower Upper

96 100

61 112.5 90.3 167.7

98 55.1 46.3 86.1

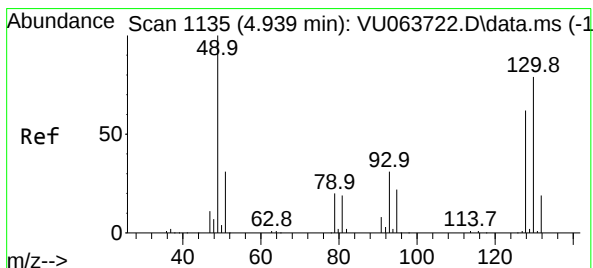
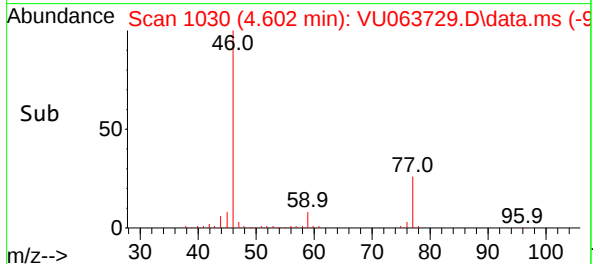
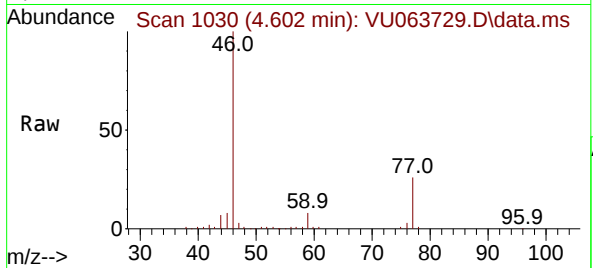




#22
2-Butanone
Concen: 0.402 ug/L
RT: 4.602 min Scan# 1051
Delta R.T. -0.067 min
Lab File: VU063729.D
Acq: 17 Nov 2025 15:57

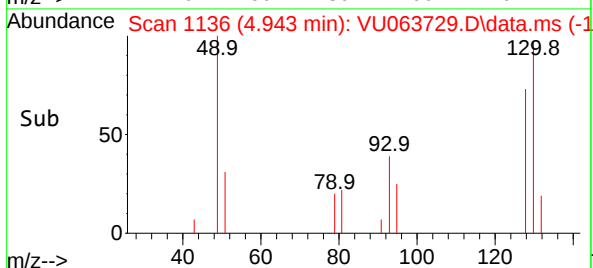
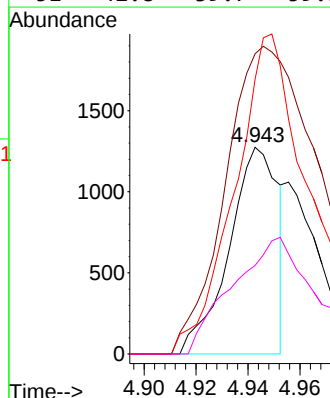
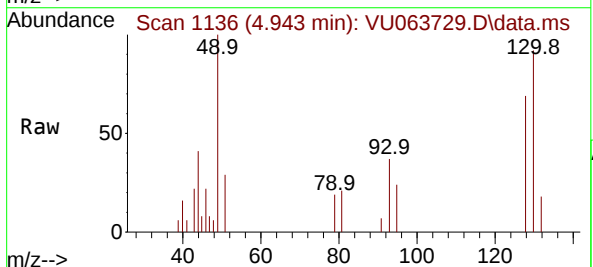
Instrument :
MSVOA_U
ClientSampleId :
MDL-MED-SOIL-QT4-2025-07

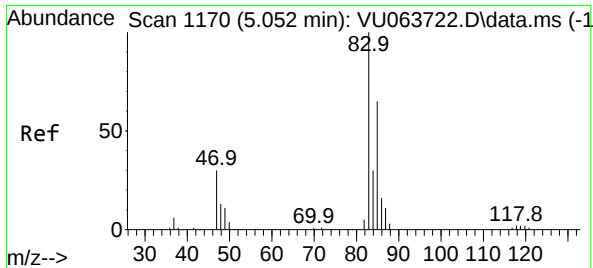
Tgt Ion: 43 Resp: 931
Ion Ratio Lower Upper
43 100
72 16.9 13.6 40.7



#23
Bromochloromethane
Concen: 1.293 ug/L
RT: 4.943 min Scan# 1136
Delta R.T. 0.003 min
Lab File: VU063729.D
Acq: 17 Nov 2025 15:57

Tgt Ion: 128 Resp: 1666
Ion Ratio Lower Upper
128 100
49 145.2 113.5 210.7
130 132.9 89.8 166.8
51 42.8 39.7 59.5





#25

Chloroform

Concen: 2.550 ug/L

RT: 5.055 min Scan# 1170

Delta R.T. 0.003 min

Lab File: VU063729.D

Acq: 17 Nov 2025 15:57

Instrument :

MSVOA_U

ClientSampleId :

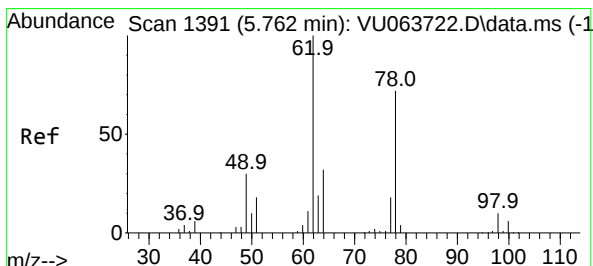
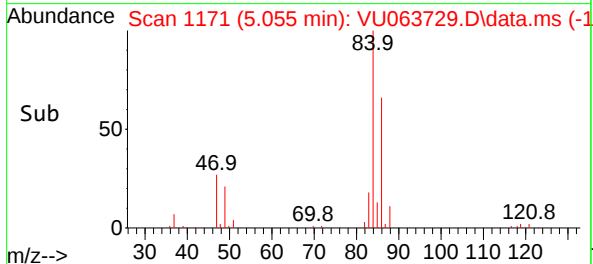
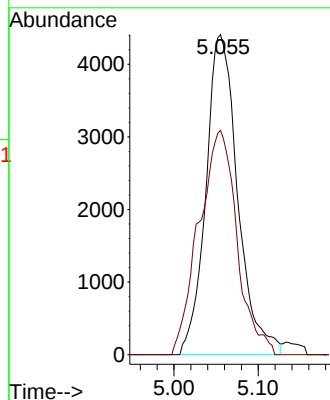
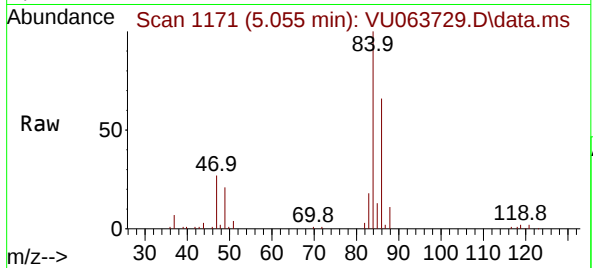
MDL-MED-SOIL-QT4-2025-07

Tgt Ion: 83 Resp: 11580

Ion Ratio Lower Upper

83 100

85 70.1 45.4 84.4



#27

1,2-Dichloroethane

Concen: 2.323 ug/L

RT: 5.772 min Scan# 1394

Delta R.T. 0.010 min

Lab File: VU063729.D

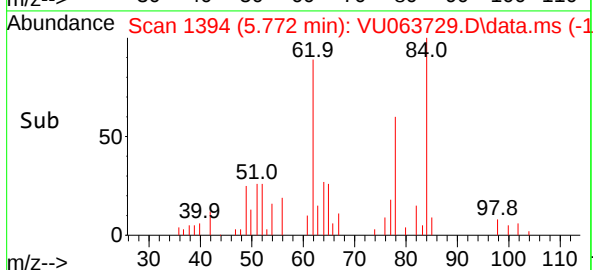
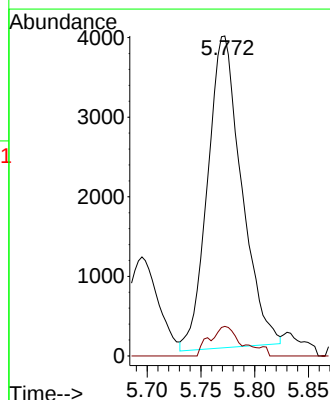
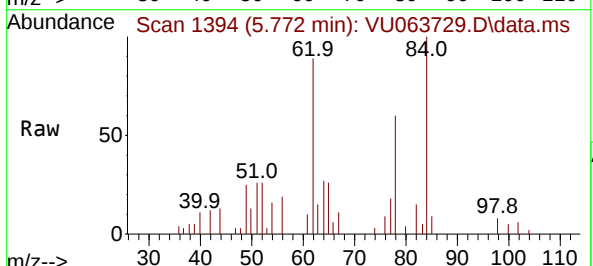
Acq: 17 Nov 2025 15:57

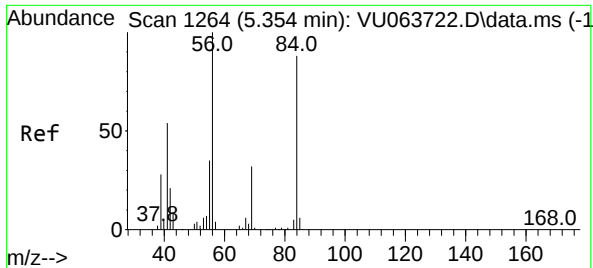
Tgt Ion: 62 Resp: 8610

Ion Ratio Lower Upper

62 100

98 9.3 7.6 11.4





#29

Cyclohexane

Concen: 2.161 ug/L

RT: 5.354 min Scan# 1264

Delta R.T. 0.000 min

Lab File: VU063729.D

Acq: 17 Nov 2025 15:57

Instrument :

MSVOA_U

ClientSampleId :

MDL-MED-SOIL-QT4-2025-07

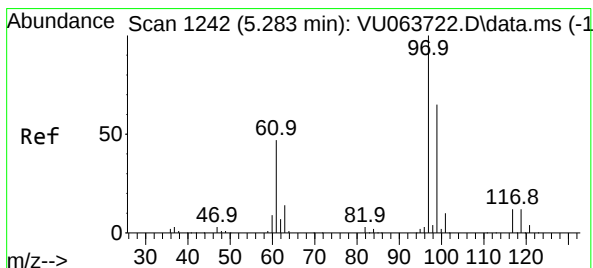
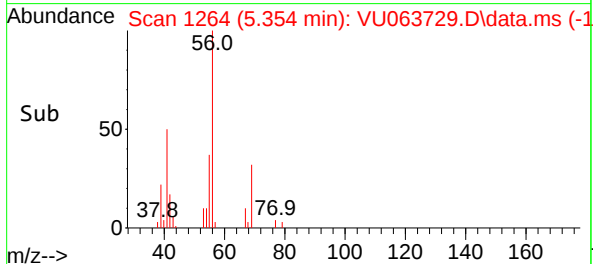
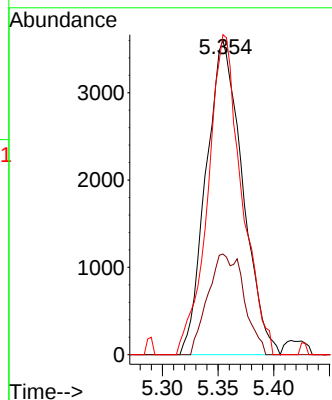
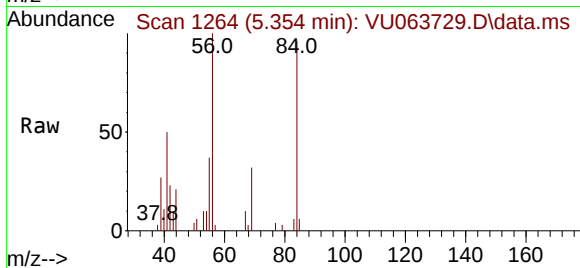
Tgt Ion: 56 Resp: 8212

Ion Ratio Lower Upper

56 100

69 19.7 25.8 38.8#

84 94.5 69.3 103.9



#30

1,1,1-Trichloroethane

Concen: 2.175 ug/L

RT: 5.284 min Scan# 1242

Delta R.T. 0.000 min

Lab File: VU063729.D

Acq: 17 Nov 2025 15:57

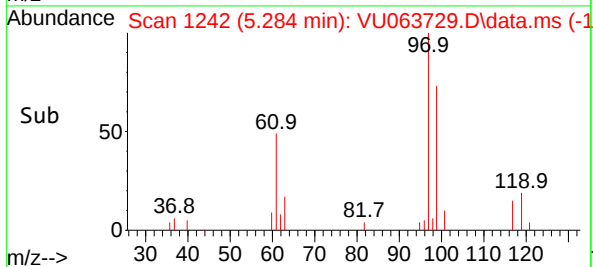
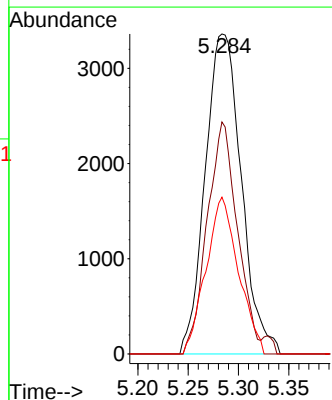
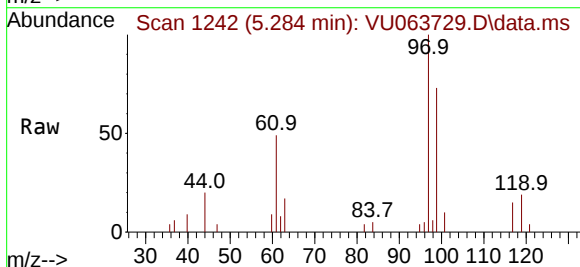
Tgt Ion: 97 Resp: 8389

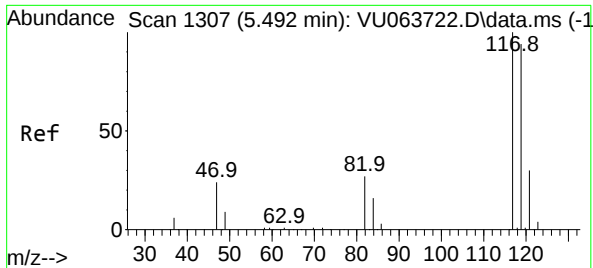
Ion Ratio Lower Upper

97 100

99 61.1 50.7 76.1

61 44.1 37.2 55.8

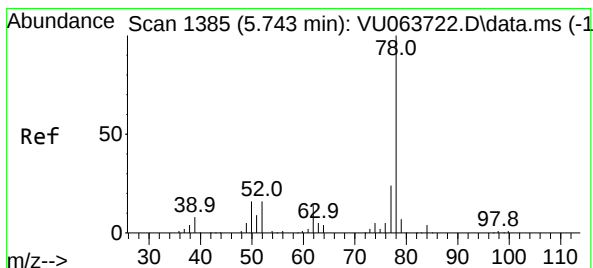
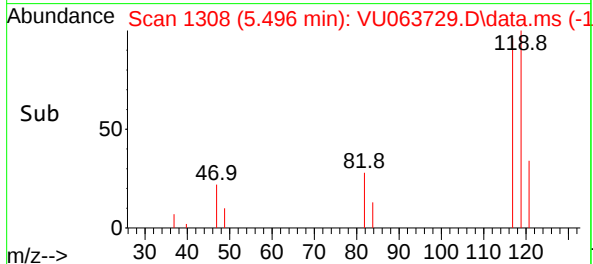
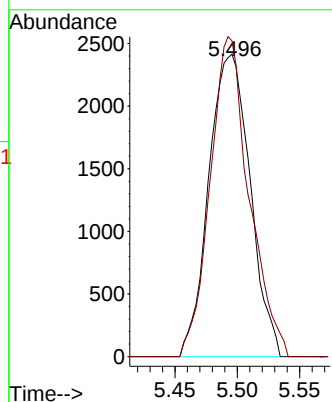
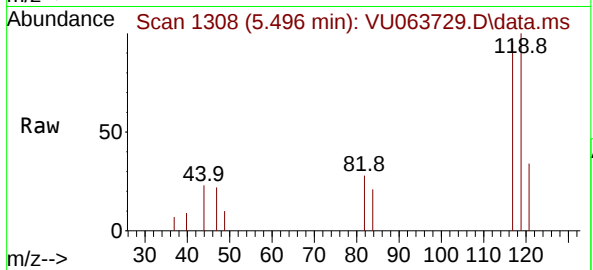




#31
Carbon tetrachloride
Concen: 1.836 ug/L
RT: 5.496 min Scan# 11
Delta R.T. 0.003 min
Lab File: VU063729.D
Acq: 17 Nov 2025 15:57

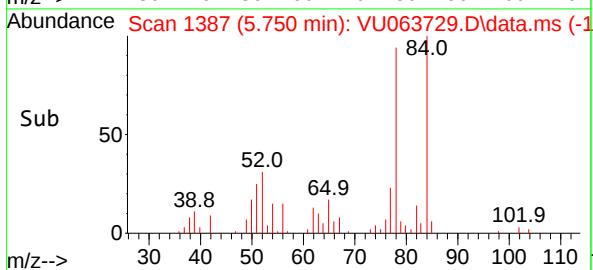
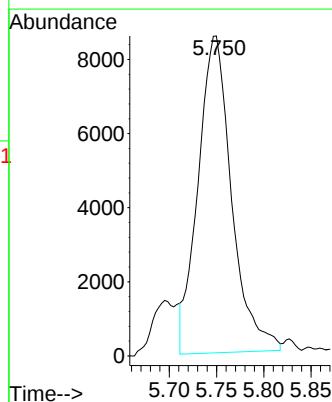
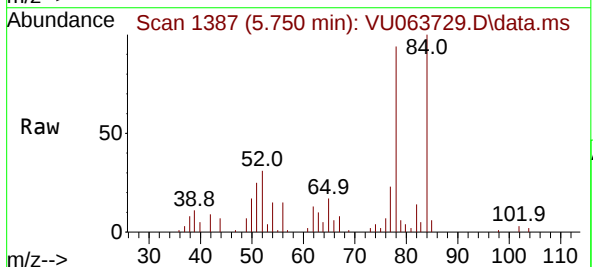
Instrument :
MSVOA_U
ClientSampleId :
MDL-MED-SOIL-QT4-2025-07

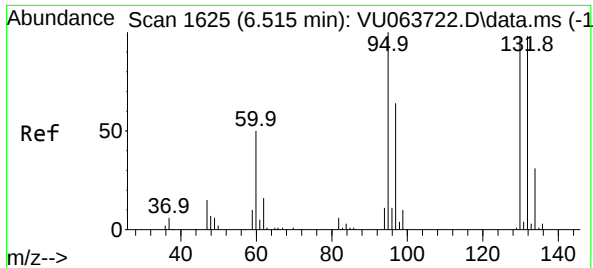
Tgt Ion:117 Resp: 5569
Ion Ratio Lower Upper
117 100
119 99.8 76.0 114.0



#33
Benzene
Concen: 2.290 ug/L
RT: 5.750 min Scan# 1387
Delta R.T. 0.007 min
Lab File: VU063729.D
Acq: 17 Nov 2025 15:57

Tgt Ion: 78 Resp: 21095



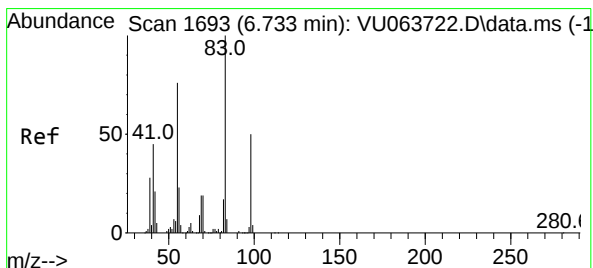
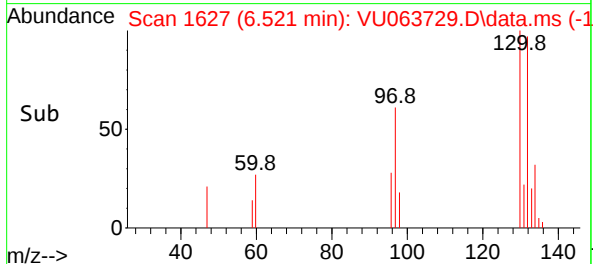
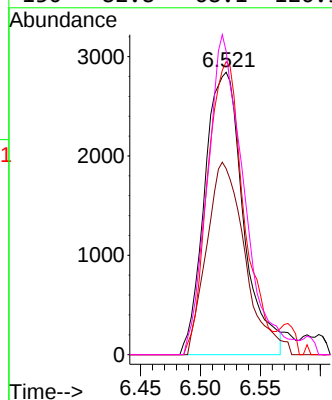
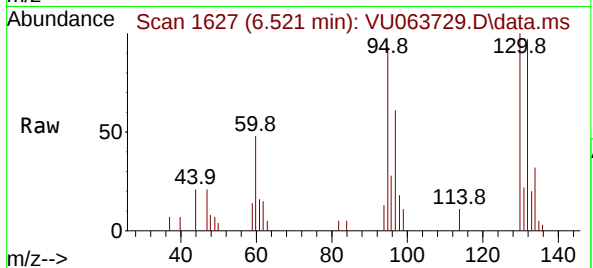


#34
Trichloroethene
Concen: 2.396 ug/L
RT: 6.521 min Scan# 1627
Delta R.T. 0.007 min
Lab File: VU063729.D
Acq: 17 Nov 2025 15:57

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

Tgt Ion: 95 Resp: 6363

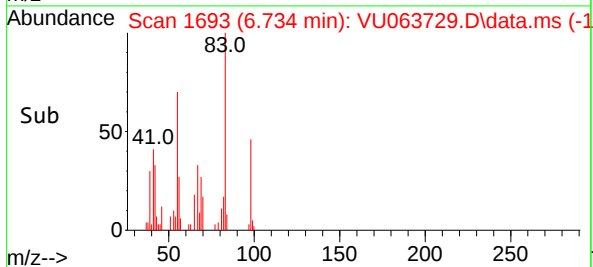
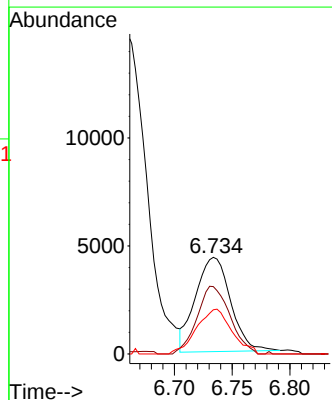
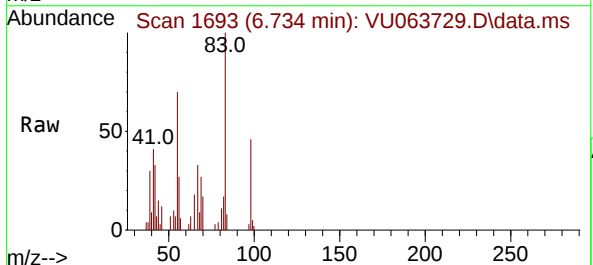
Ion	Ratio	Lower	Upper
95	100		
97	50.7	45.1	83.9
132	79.9	68.3	126.8
130	82.8	68.1	126.5

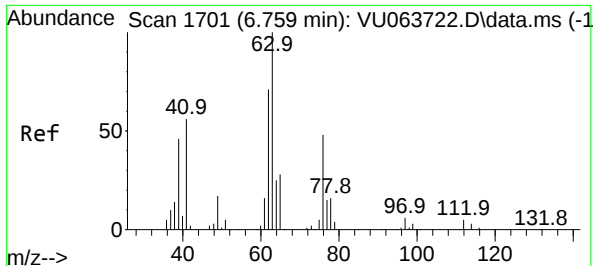


#35
Methylcyclohexane
Concen: 2.368 ug/L
RT: 6.734 min Scan# 1693
Delta R.T. 0.000 min
Lab File: VU063729.D
Acq: 17 Nov 2025 15:57

Tgt Ion: 83 Resp: 9231

Ion	Ratio	Lower	Upper
83	100		
55	67.4	60.9	91.3
98	47.4	39.7	59.5

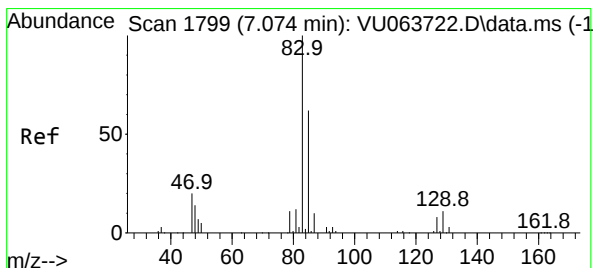
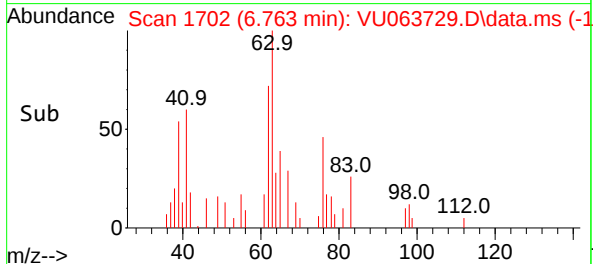
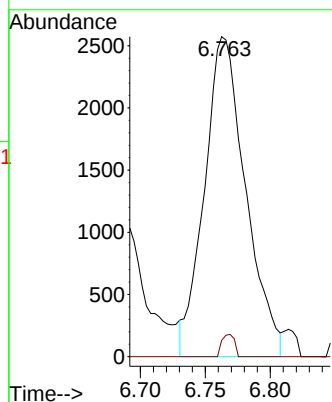
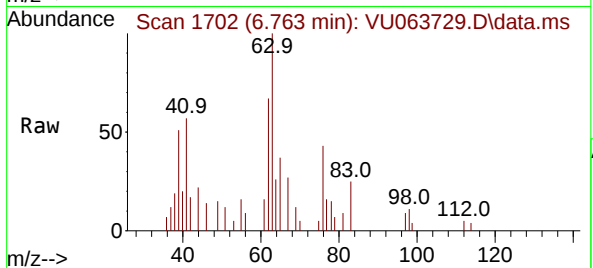




#37
1,2-Dichloropropane
Concen: 2.366 ug/L
RT: 6.763 min Scan# 11
Delta R.T. 0.003 min
Lab File: VU063729.D
Acq: 17 Nov 2025 15:57

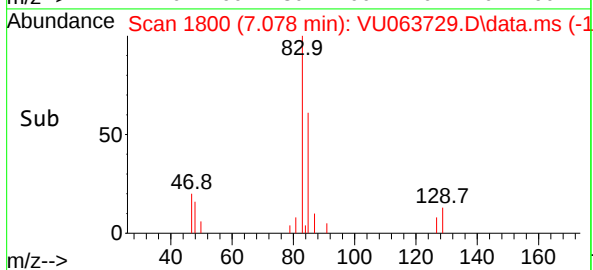
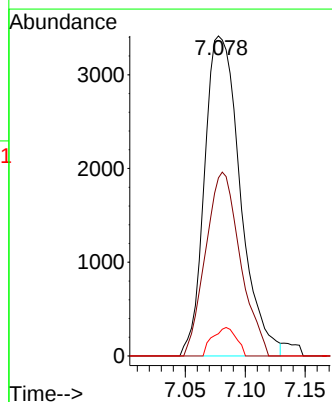
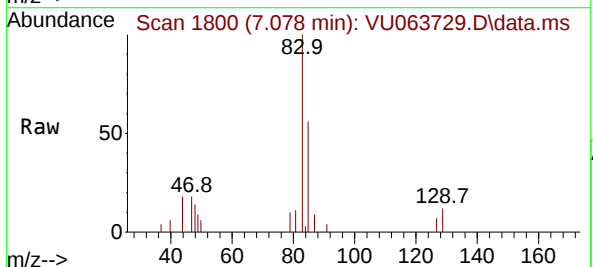
Instrument :
MSVOA_U
ClientSampleId :
MDL-MED-SOIL-QT4-2025-07

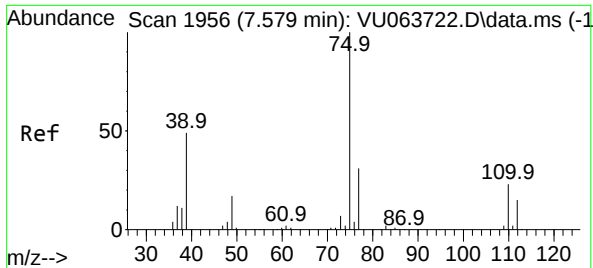
Tgt Ion: 63 Resp: 5665
Ion Ratio Lower Upper
63 100
112 2.1 3.7 5.5#



#38
Bromodichloromethane
Concen: 2.162 ug/L
RT: 7.078 min Scan# 1800
Delta R.T. 0.003 min
Lab File: VU063729.D
Acq: 17 Nov 2025 15:57

Tgt Ion: 83 Resp: 7087
Ion Ratio Lower Upper
83 100
85 55.7 43.1 80.1
127 7.0 6.6 10.0





#39

cis-1,3-Dichloropropene

Concen: 2.361 ug/L

RT: 7.586 min Scan# 1956

Delta R.T. 0.007 min

Lab File: VU063729.D

Acq: 17 Nov 2025 15:57

Instrument :

MSVOA_U

ClientSampleId :

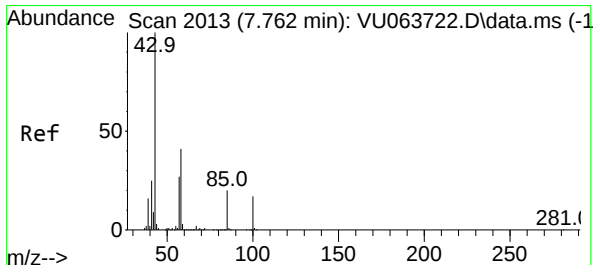
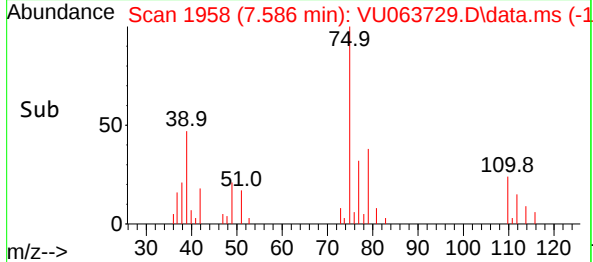
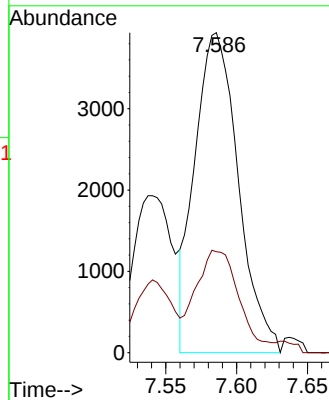
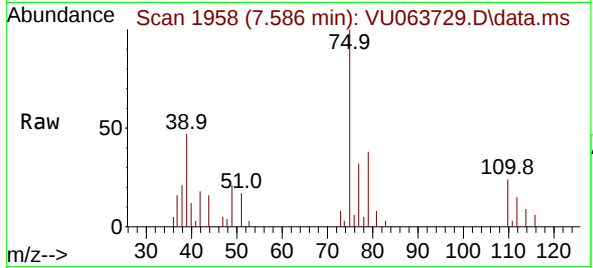
MDL-MED-SOIL-QT4-2025-07

Tgt Ion: 75 Resp: 8381

Ion Ratio Lower Upper

75 100

77 31.5 22.1 41.1



#40

4-Methyl-2-pentanone

Concen: 4.884 ug/L

RT: 7.772 min Scan# 2016

Delta R.T. 0.010 min

Lab File: VU063729.D

Acq: 17 Nov 2025 15:57

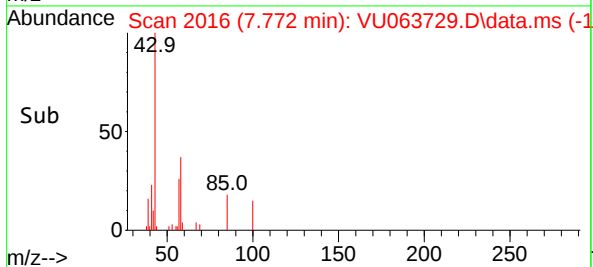
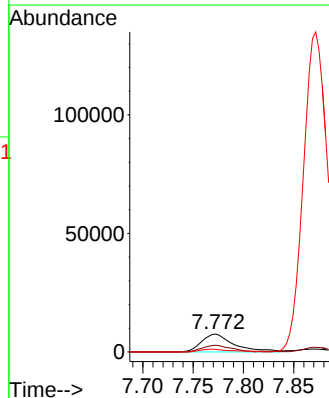
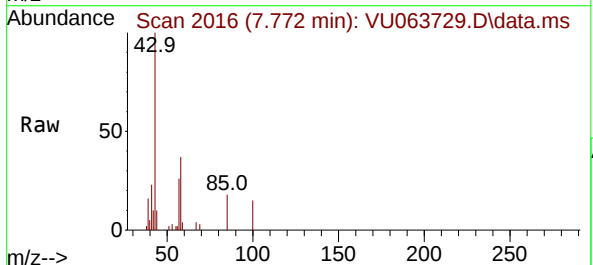
Tgt Ion: 43 Resp: 16923

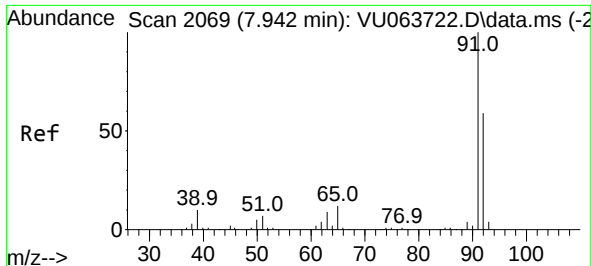
Ion Ratio Lower Upper

43 100

58 33.6 32.9 49.3

100 14.3 13.9 20.9





#42

Toluene

Concen: 2.285 ug/L

RT: 7.946 min Scan# 2069

Delta R.T. 0.003 min

Lab File: VU063729.D

Acq: 17 Nov 2025 15:57

Instrument :

MSVOA_U

ClientSampleId :

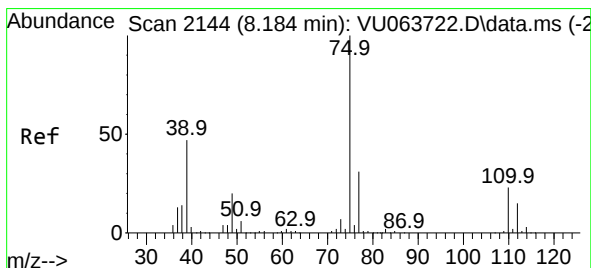
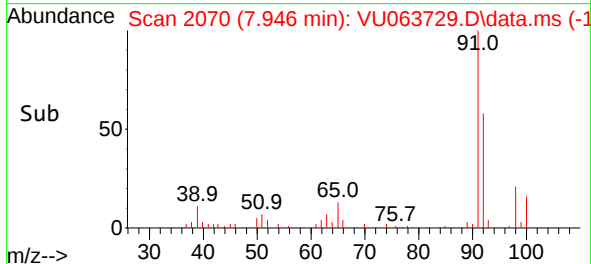
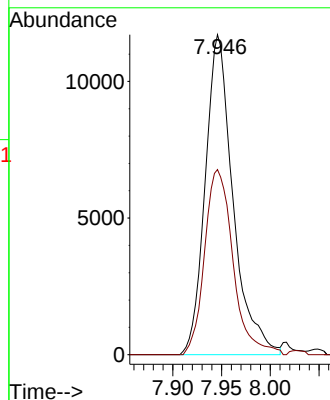
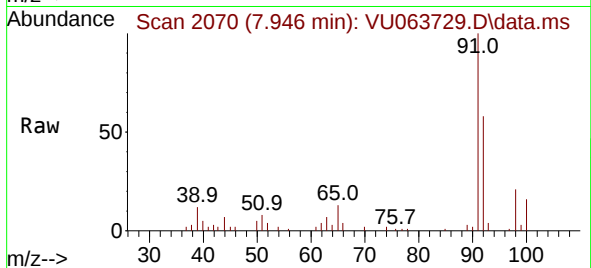
MDL-MED-SOIL-QT4-2025-07

Tgt Ion: 91 Resp: 23239

Ion Ratio Lower Upper

91 100

92 57.8 41.2 76.4



#44

trans-1,3-Dichloropropene

Concen: 2.472 ug/L

RT: 8.190 min Scan# 2146

Delta R.T. 0.007 min

Lab File: VU063729.D

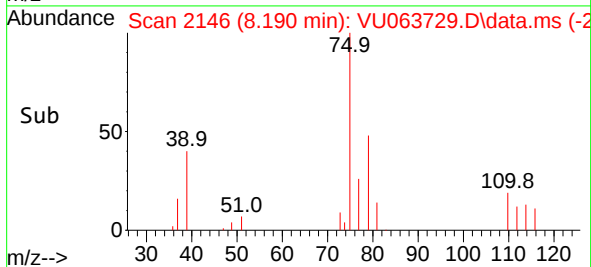
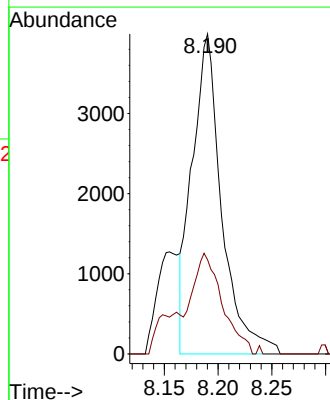
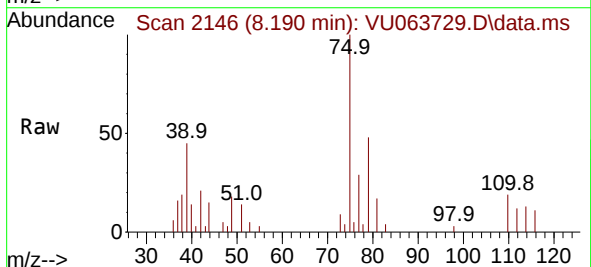
Acq: 17 Nov 2025 15:57

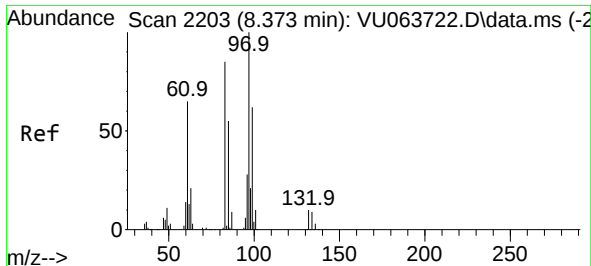
Tgt Ion: 75 Resp: 7661

Ion Ratio Lower Upper

75 100

77 28.1 21.4 39.8

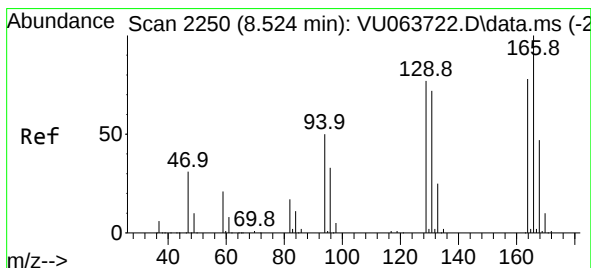
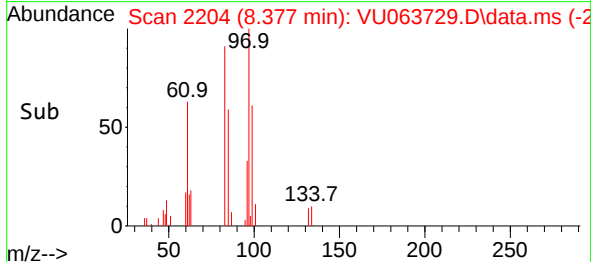
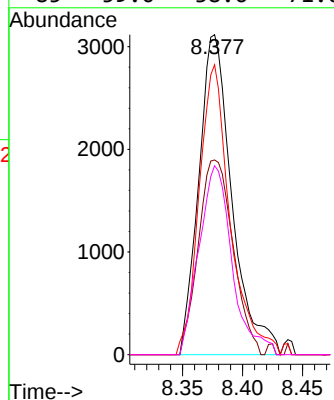
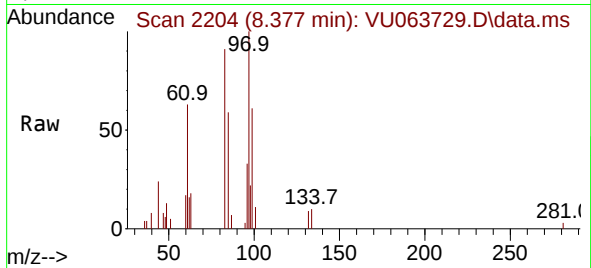




#45
1,1,2-Trichloroethane
Concen: 2.373 ug/L
RT: 8.377 min Scan# 2203
Delta R.T. 0.003 min
Lab File: VU063729.D
Acq: 17 Nov 2025 15:57

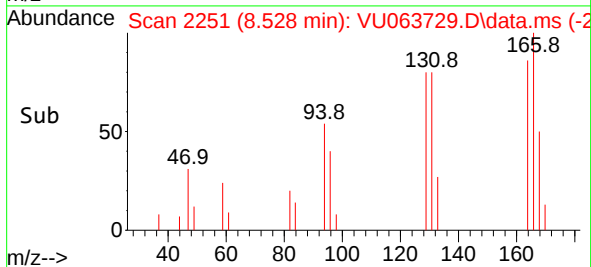
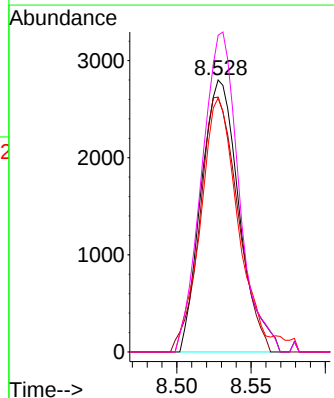
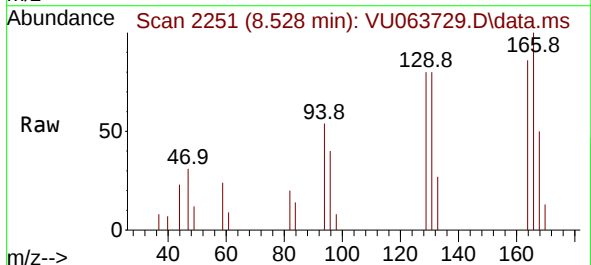
Instrument :
MSVOA_U
ClientSampleId :
MDL-MED-SOIL-QT4-2025-07

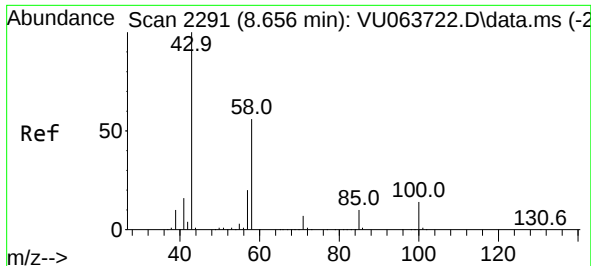
Tgt Ion:	97	Resp:	6008
Ion	Ratio	Lower	Upper
97	100		
99	60.9	43.7	81.1
83	90.6	59.7	110.9
85	59.0	38.6	71.6



#46
Tetrachloroethene
Concen: 2.462 ug/L
RT: 8.528 min Scan# 2251
Delta R.T. 0.003 min
Lab File: VU063729.D
Acq: 17 Nov 2025 15:57

Tgt Ion:	164	Resp:	4999
Ion	Ratio	Lower	Upper
164	100		
129	93.8	68.5	127.3
131	93.4	64.3	119.3
166	116.5	89.5	166.1

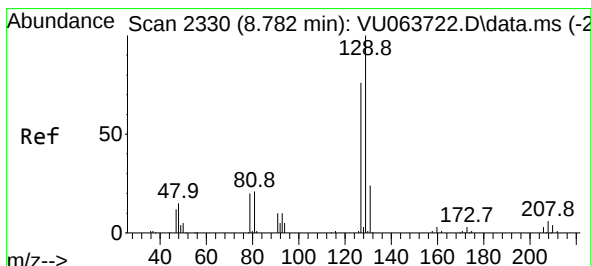
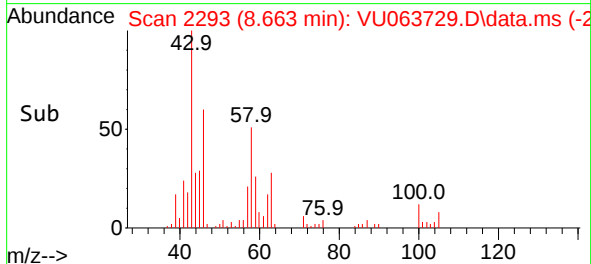
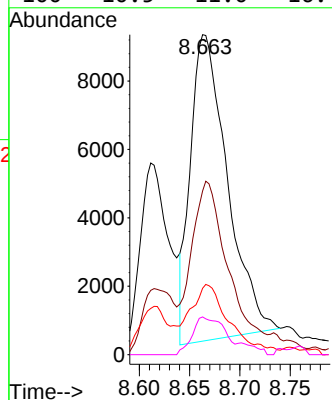
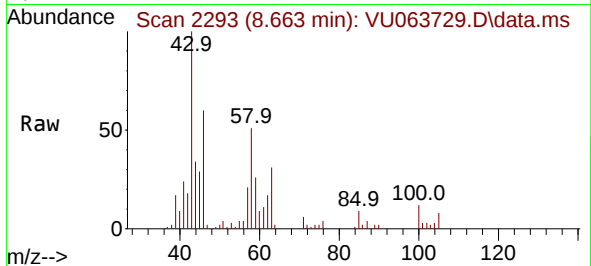




#48
2-Hexanone
Concen: 8.407 ug/L
RT: 8.663 min Scan# 2291
Delta R.T. 0.007 min
Lab File: VU063729.D
Acq: 17 Nov 2025 15:57

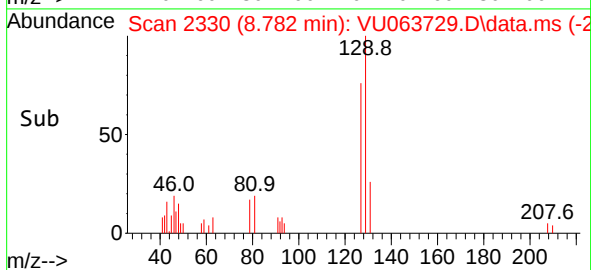
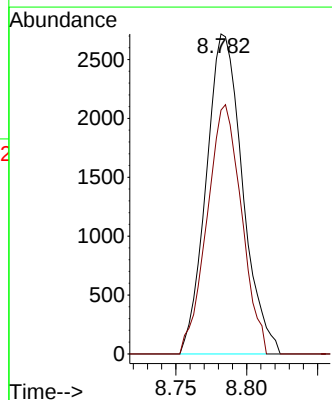
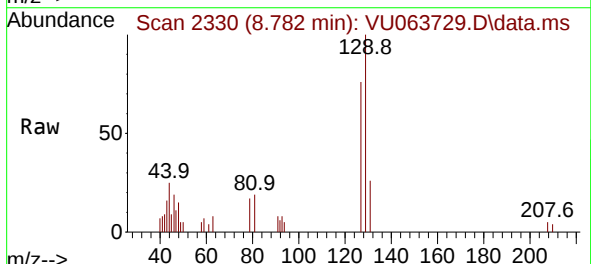
Instrument :
MSVOA_U
ClientSampleId :
MDL-MED-SOIL-QT4-2025-07

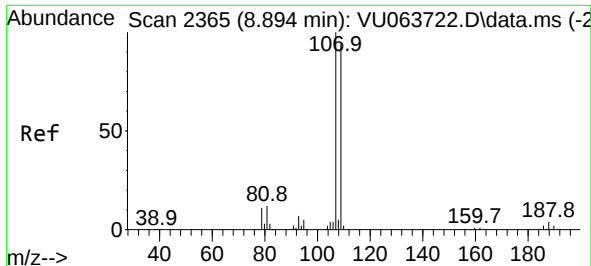
Tgt Ion:	43	Resp:	22865
Ion	Ratio	Lower	Upper
43	100		
58	47.9	44.8	67.2
57	18.7	16.6	24.8
100	10.5	11.0	16.4



#49
Dibromochloromethane
Concen: 1.980 ug/L
RT: 8.782 min Scan# 2330
Delta R.T. 0.000 min
Lab File: VU063729.D
Acq: 17 Nov 2025 15:57

Tgt Ion:	129	Resp:	4841
Ion	Ratio	Lower	Upper
129	100		
127	76.2	53.4	99.2

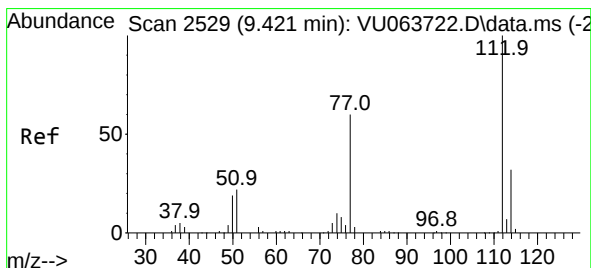
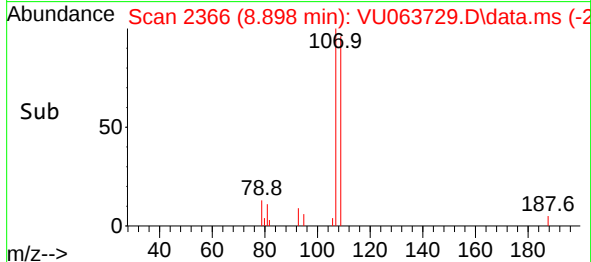
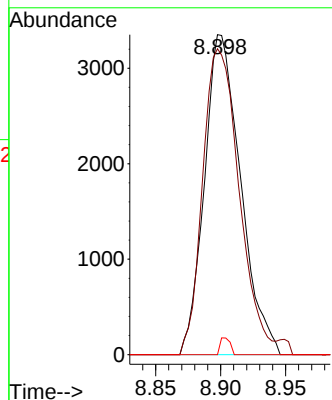
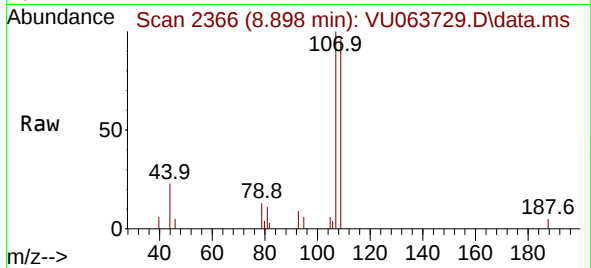




#50
1,2-Dibromoethane
Concen: 2.446 ug/L
RT: 8.898 min Scan# 21
Delta R.T. 0.003 min
Lab File: VU063729.D
Acq: 17 Nov 2025 15:57

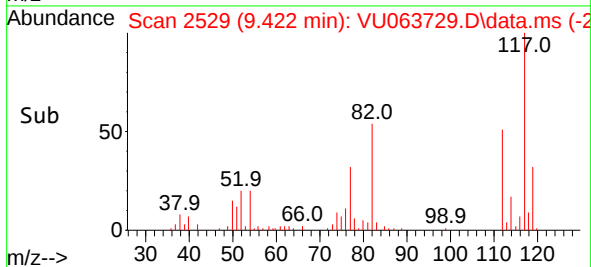
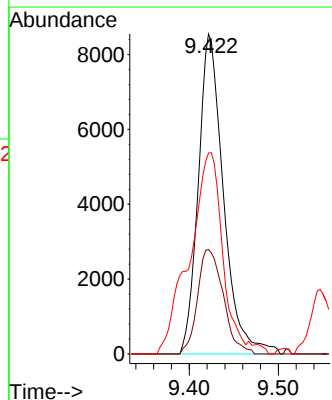
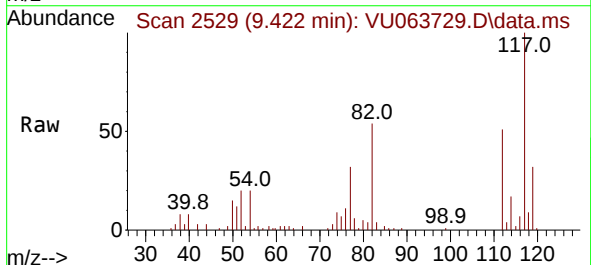
Instrument : MSVOA_U
ClientSampleId : MDL-MED-SOIL-QT4-2025-07

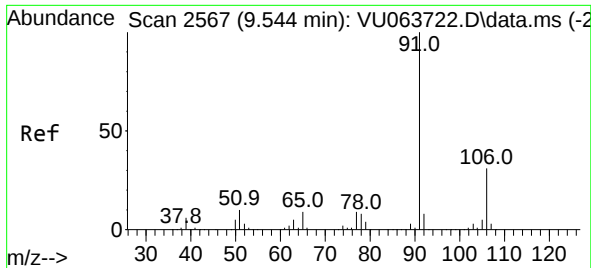
Tgt Ion:107 Resp: 6499
Ion Ratio Lower Upper
107 100
109 95.6 65.8 122.2
188 0.0 3.2 4.8#



#51
Chlorobenzene
Concen: 2.445 ug/L
RT: 9.422 min Scan# 2529
Delta R.T. 0.000 min
Lab File: VU063729.D
Acq: 17 Nov 2025 15:57

Tgt Ion:112 Resp: 16777
Ion Ratio Lower Upper
112 100
114 32.7 22.1 41.1
77 62.8 48.0 72.0

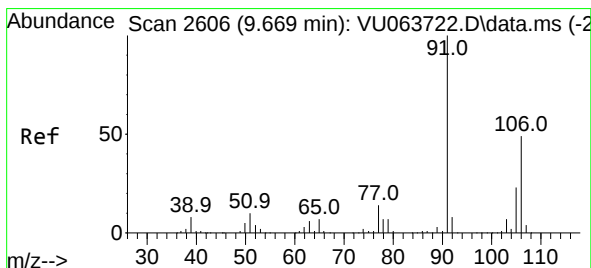
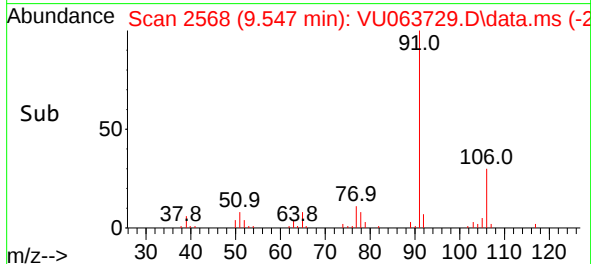
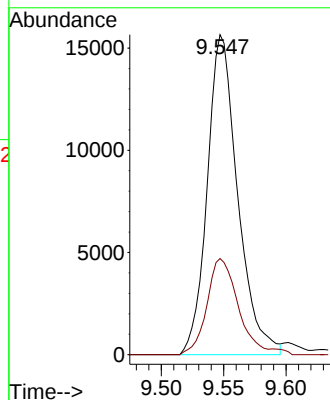
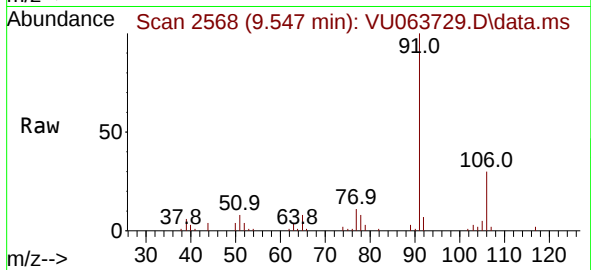




#52
Ethylbenzene
Concen: 2.254 ug/L
RT: 9.547 min Scan# 21
Delta R.T. 0.003 min
Lab File: VU063729.D
Acq: 17 Nov 2025 15:57

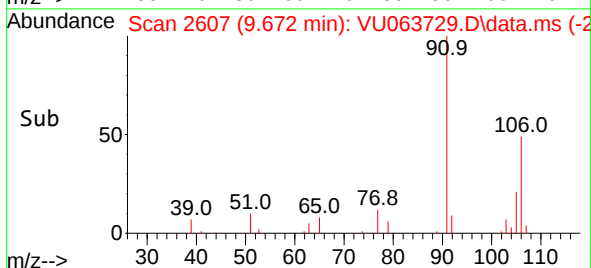
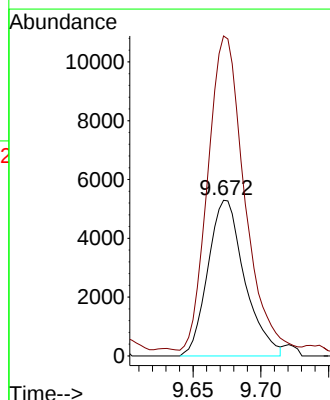
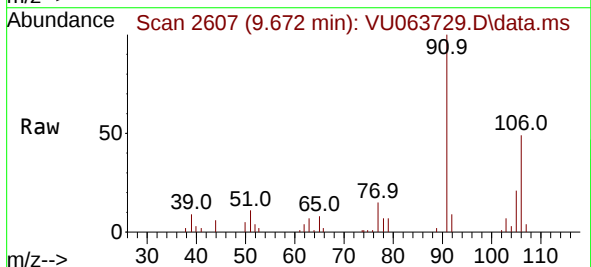
Instrument :
MSVOA_U
ClientSampleId :
MDL-MED-SOIL-QT4-2025-07

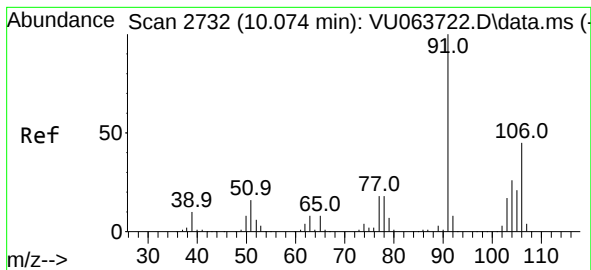
Tgt Ion: 91 Resp: 26612
Ion Ratio Lower Upper
91 100
106 30.1 21.3 39.6



#53
m,p-Xylene
Concen: 2.215 ug/L
RT: 9.672 min Scan# 2607
Delta R.T. 0.003 min
Lab File: VU063729.D
Acq: 17 Nov 2025 15:57

Tgt Ion:106 Resp: 9971
Ion Ratio Lower Upper
106 100
91 205.6 143.6 266.6





#54

o-Xylene

Concen: 2.168 ug/L

RT: 10.078 min Scan# 21

Delta R.T. 0.003 min

Lab File: VU063729.D

Acq: 17 Nov 2025 15:57

Instrument :

MSVOA_U

ClientSampleId :

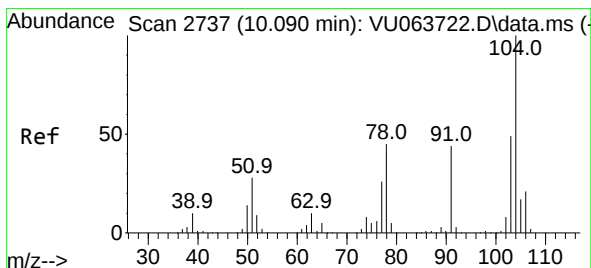
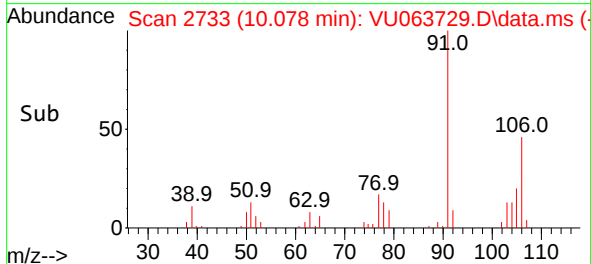
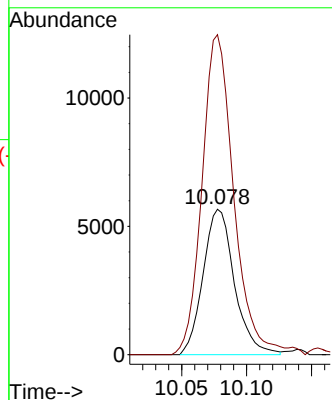
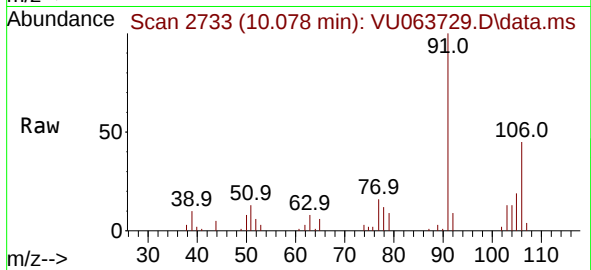
MDL-MED-SOIL-QT4-2025-07

Tgt Ion:106 Resp: 9504

Ion Ratio Lower Upper

106 100

91 220.0 156.0 289.6



#55

Styrene

Concen: 2.147 ug/L

RT: 10.097 min Scan# 2739

Delta R.T. 0.007 min

Lab File: VU063729.D

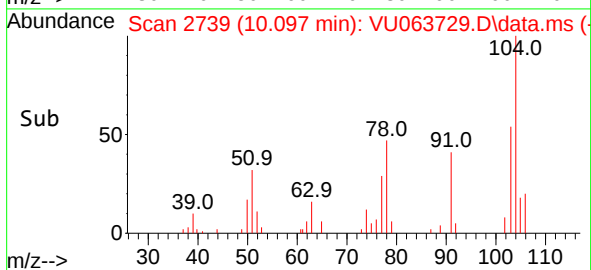
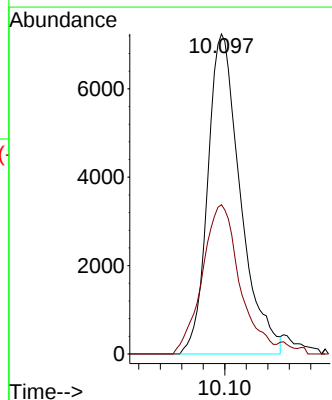
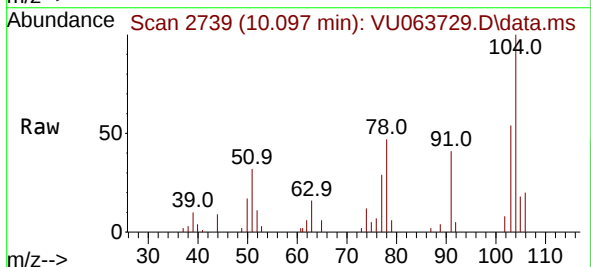
Acq: 17 Nov 2025 15:57

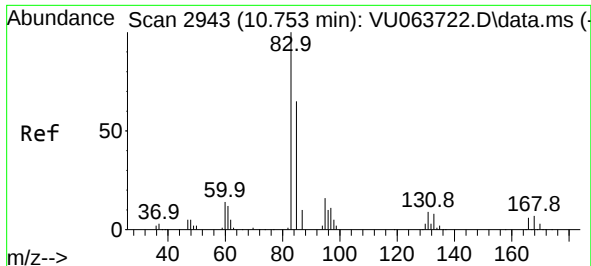
Tgt Ion:104 Resp: 15246

Ion Ratio Lower Upper

104 100

78 46.7 32.0 59.4





#57

1,1,2,2-Tetrachloroethane

Concen: 2.696 ug/L

RT: 10.756 min Scan# 2944

Delta R.T. 0.003 min

Lab File: VU063729.D

Acq: 17 Nov 2025 15:57

Instrument :

MSVOA_U

ClientSampleId :

MDL-MED-SOIL-QT4-2025-07

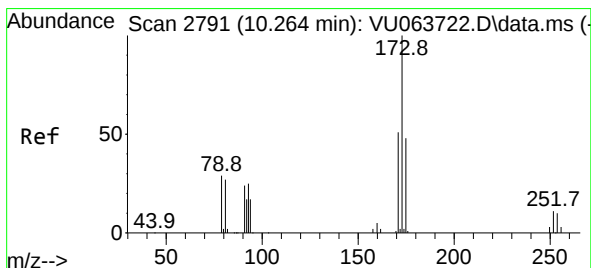
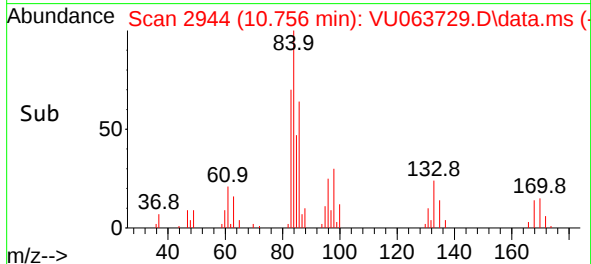
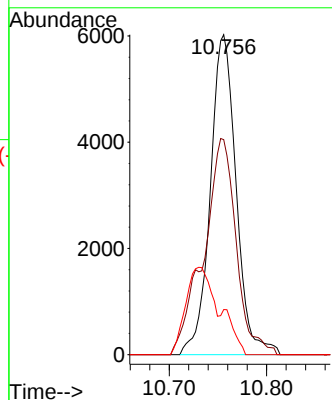
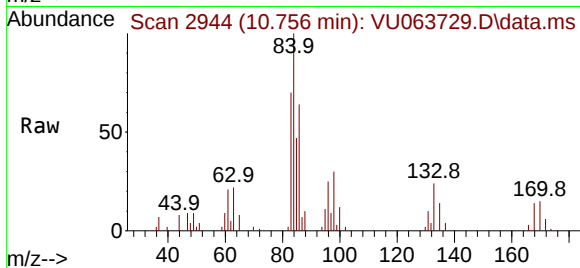
Tgt Ion: 83 Resp: 11116

Ion Ratio Lower Upper

83 100

85 67.2 45.7 84.9

131 14.1 7.4 11.2#



#59

Bromoform

Concen: 1.944 ug/L

RT: 10.267 min Scan# 2792

Delta R.T. 0.003 min

Lab File: VU063729.D

Acq: 17 Nov 2025 15:57

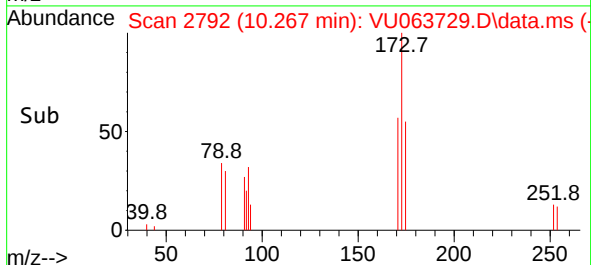
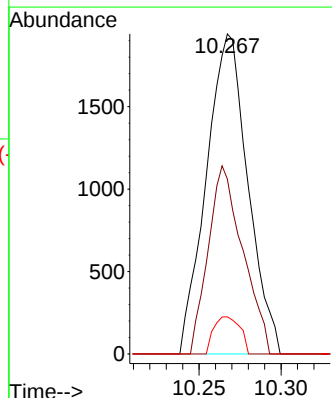
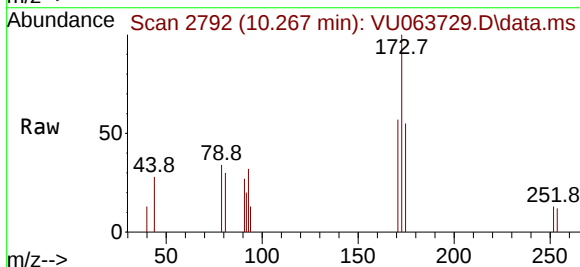
Tgt Ion:173 Resp: 3416

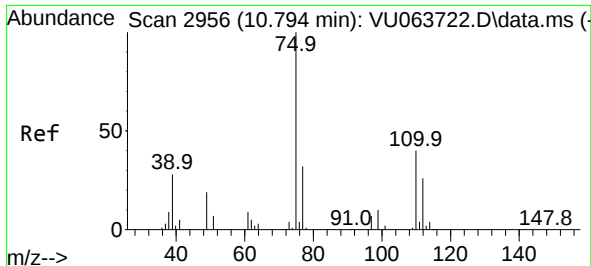
Ion Ratio Lower Upper

173 100

175 48.9 38.2 57.4

254 7.3 6.9 10.3

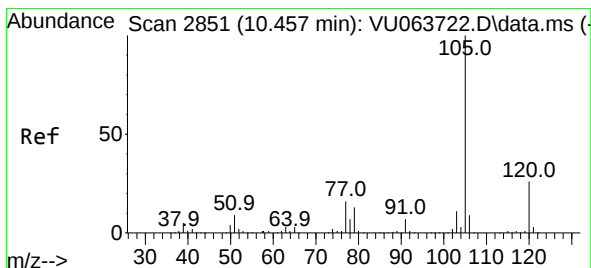
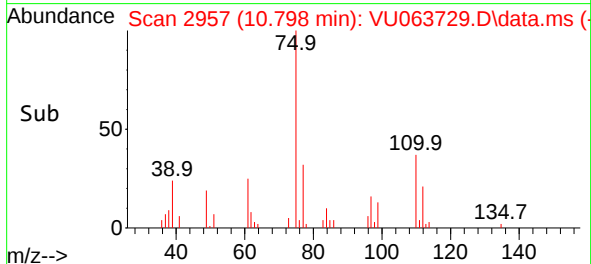
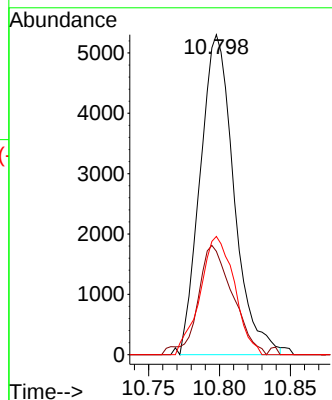
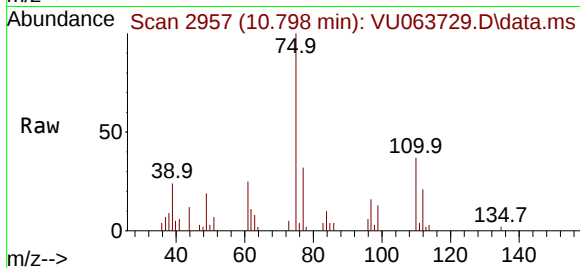




#60
1,2,3-Trichloropropane
Concen: 2.596 ug/L
RT: 10.798 min Scan# 2957
Delta R.T. 0.003 min
Lab File: VU063729.D
Acq: 17 Nov 2025 15:57

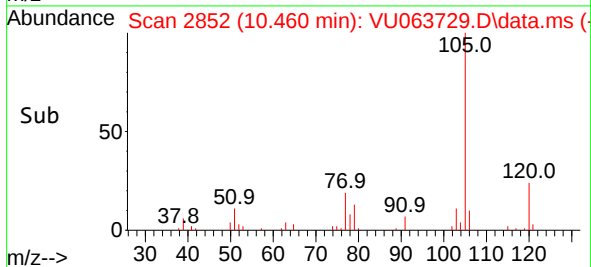
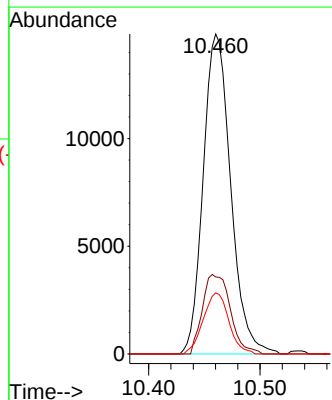
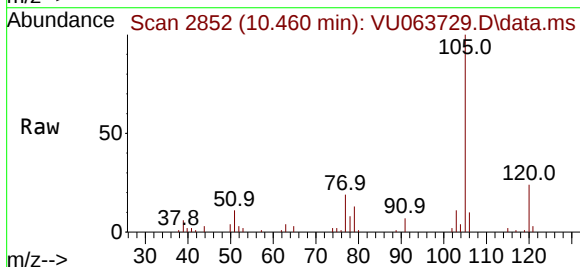
Instrument :
MSVOA_U
ClientSampleId :
MDL-MED-SOIL-QT4-2025-07

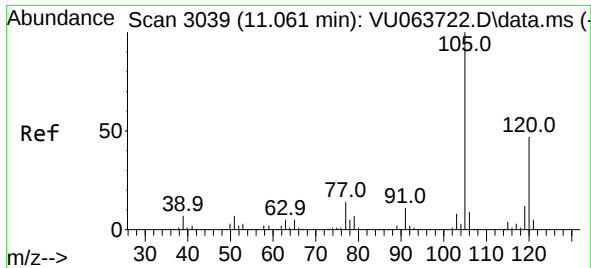
Tgt Ion:	75	Resp:	8770
Ion	Ratio	Lower	Upper
75	100		
77	34.2	26.1	39.1
110	37.6	32.3	48.5



#61
Isopropylbenzene
Concen: 2.181 ug/L
RT: 10.460 min Scan# 2852
Delta R.T. 0.003 min
Lab File: VU063729.D
Acq: 17 Nov 2025 15:57

Tgt Ion:	105	Resp:	25467
Ion	Ratio	Lower	Upper
105	100		
120	25.2	20.7	31.1
77	17.8	12.9	19.3

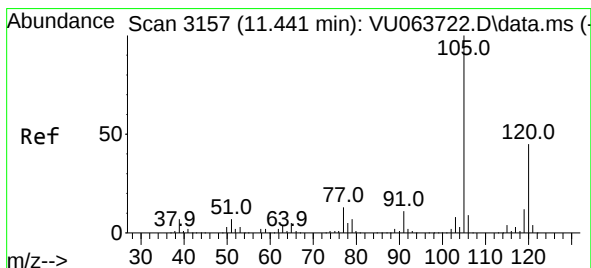
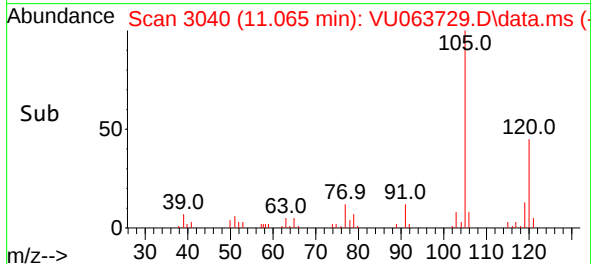
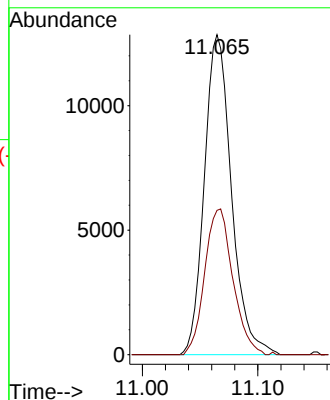
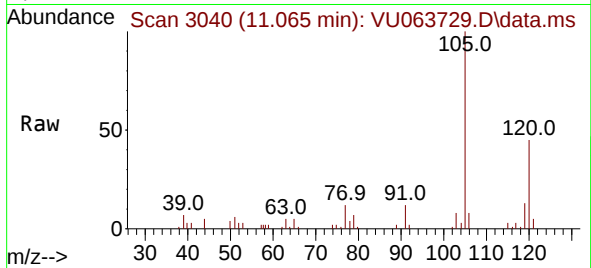




#62
1,3,5-Trimethylbenzene
Concen: 2.184 ug/L
RT: 11.065 min Scan# 3039
Delta R.T. 0.003 min
Lab File: VU063729.D
Acq: 17 Nov 2025 15:57

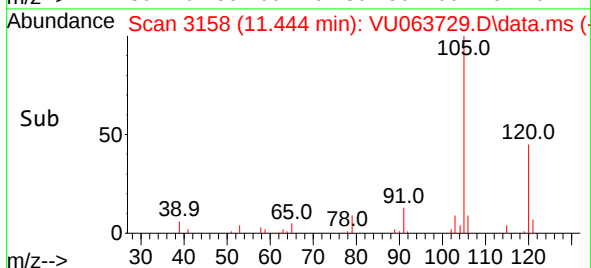
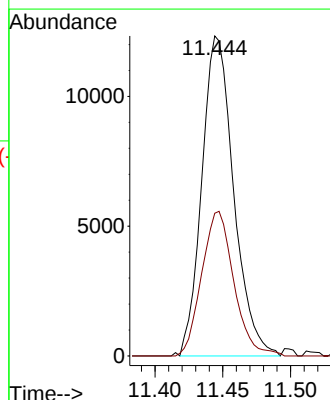
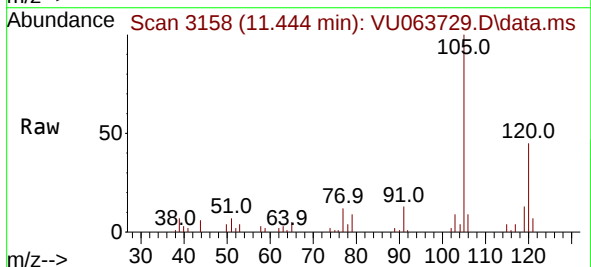
Instrument :
MSVOA_U
ClientSampleId :
MDL-MED-SOIL-QT4-2025-07

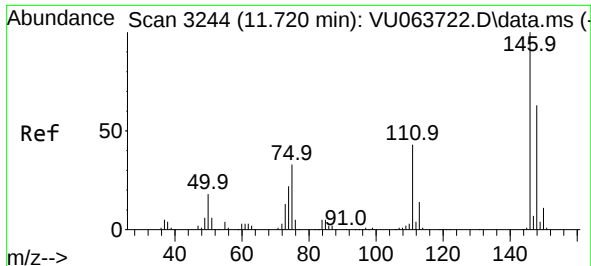
Tgt Ion:105 Resp: 20972
Ion Ratio Lower Upper
105 100
120 47.2 37.8 56.6



#63
1,2,4-Trimethylbenzene
Concen: 2.197 ug/L
RT: 11.444 min Scan# 3158
Delta R.T. 0.003 min
Lab File: VU063729.D
Acq: 17 Nov 2025 15:57

Tgt Ion:105 Resp: 20140
Ion Ratio Lower Upper
105 100
120 45.6 35.6 53.4





#64

1,3-Dichlorobenzene

Concen: 2.521 ug/L

RT: 11.724 min Scan# 31

Delta R.T. 0.003 min

Lab File: VU063729.D

Acq: 17 Nov 2025 15:57

Instrument :

MSVOA_U

ClientSampleId :

MDL-MED-SOIL-QT4-2025-07

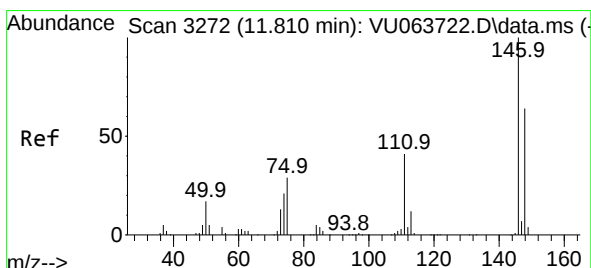
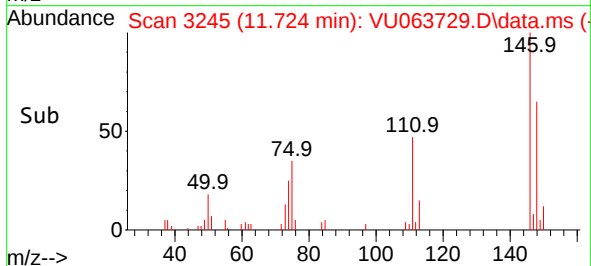
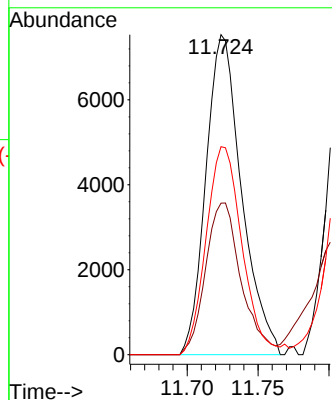
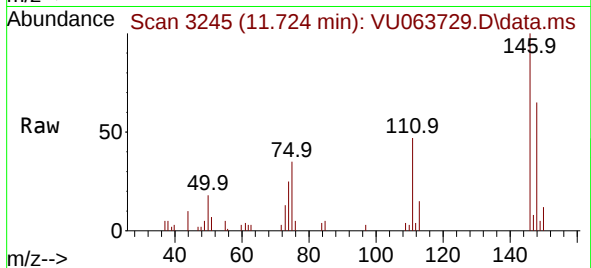
Tgt Ion:146 Resp: 13194

Ion Ratio Lower Upper

146 100

111 51.8 29.8 55.3

148 65.0 44.4 82.4



#65

1,4-Dichlorobenzene

Concen: 2.883 ug/L

RT: 11.814 min Scan# 3273

Delta R.T. 0.003 min

Lab File: VU063729.D

Acq: 17 Nov 2025 15:57

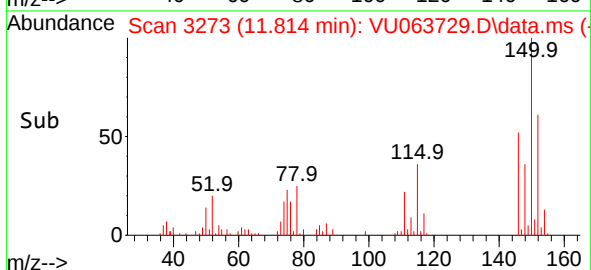
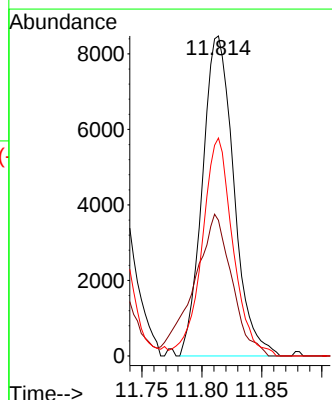
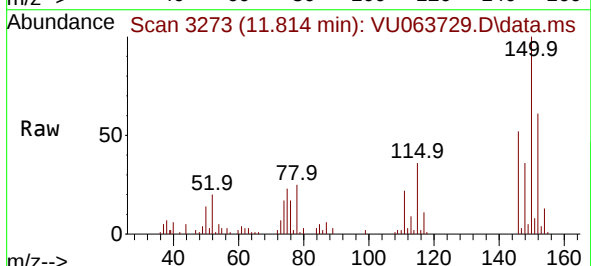
Tgt Ion:146 Resp: 15454

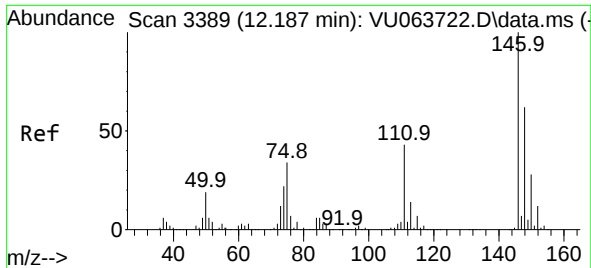
Ion Ratio Lower Upper

146 100

111 40.2 28.8 53.4

148 64.7 44.9 83.3

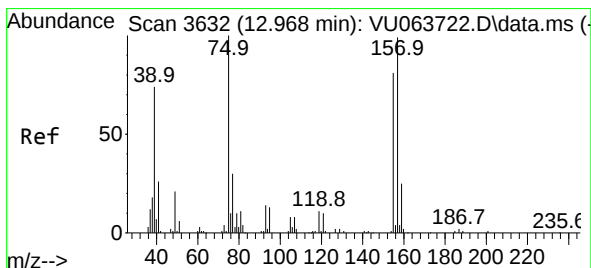
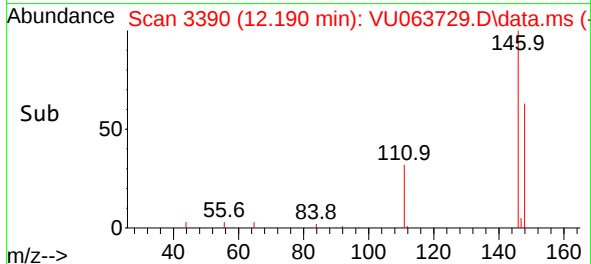
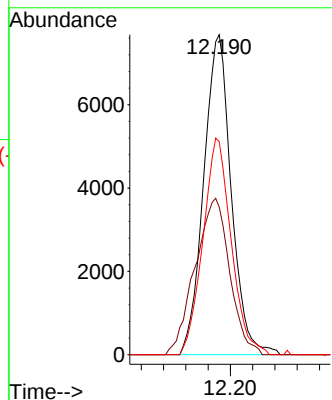
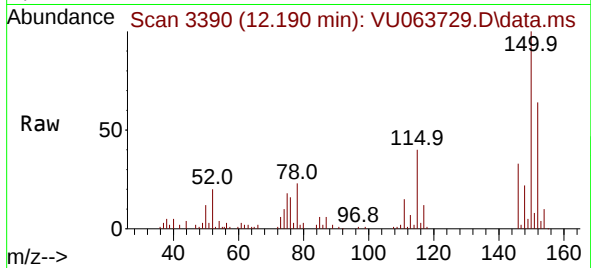




#67
1,2-Dichlorobenzene
Concen: 2.599 ug/L
RT: 12.190 min Scan# 31
Delta R.T. 0.003 min
Lab File: VU063729.D
Acq: 17 Nov 2025 15:57

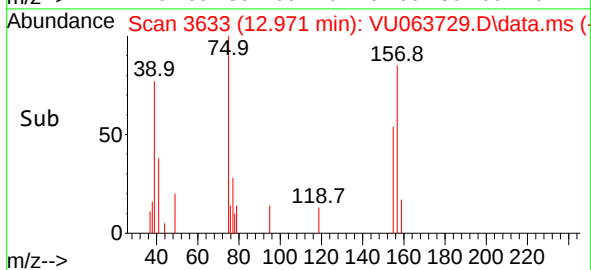
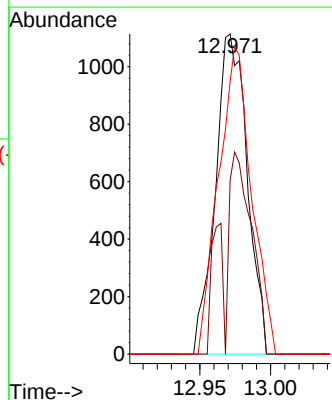
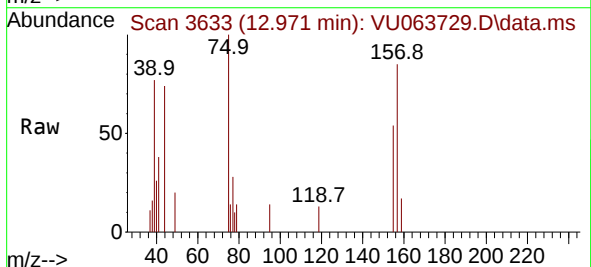
Instrument :
MSVOA_U
ClientSampleId :
MDL-MED-SOIL-QT4-2025-07

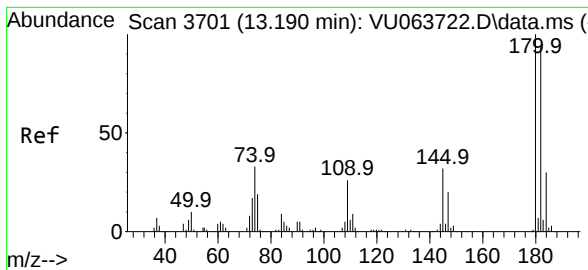
Tgt Ion:146 Resp: 13187
Ion Ratio Lower Upper
146 100
111 42.9 34.2 51.4
148 62.0 49.6 74.4



#68
1,2-Dibromo-3-chloropropane
Concen: 2.084 ug/L
RT: 12.971 min Scan# 3633
Delta R.T. 0.003 min
Lab File: VU063729.D
Acq: 17 Nov 2025 15:57

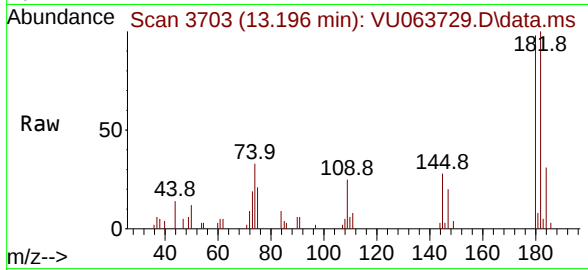
Tgt Ion: 75 Resp: 1738
Ion Ratio Lower Upper
75 100
155 47.5 64.6 97.0#
157 74.4 78.8 118.2#



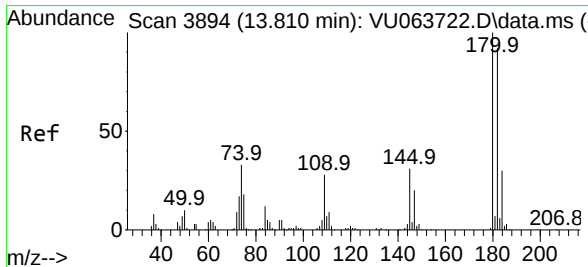
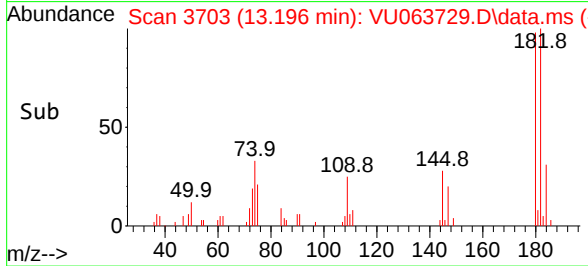
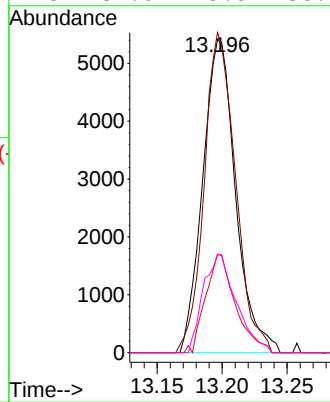


#69
 1,3,5-Trichlorobenzene
 Concen: 2.692 ug/L
 RT: 13.196 min Scan# 31
 Delta R.T. 0.007 min
 Lab File: VU063729.D
 Acq: 17 Nov 2025 15:57

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

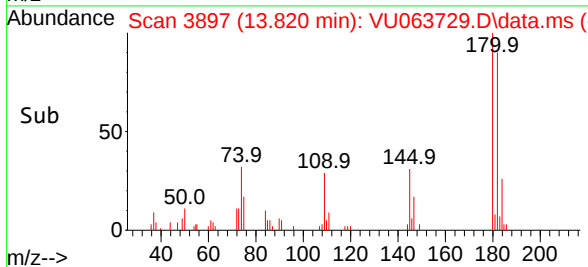
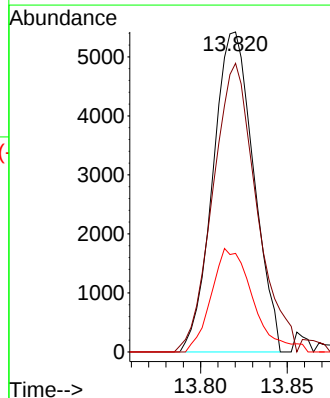
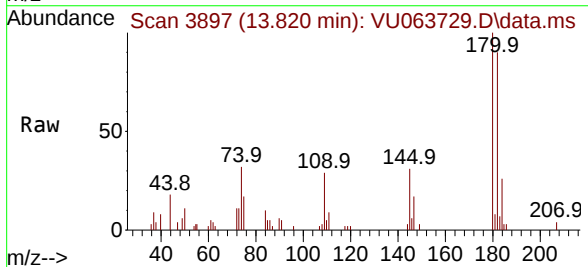


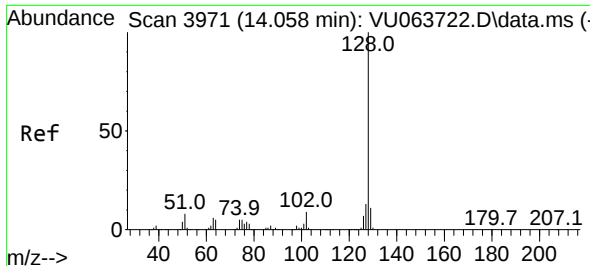
Tgt Ion:180 Resp: 9522
 Ion Ratio Lower Upper
 180 100
 182 97.0 76.4 114.6
 184 28.3 24.4 36.6
 145 31.6 25.8 38.6



#70
 1,2,4-trichlorobenzene
 Concen: 3.006 ug/L
 RT: 13.820 min Scan# 3897
 Delta R.T. 0.010 min
 Lab File: VU063729.D
 Acq: 17 Nov 2025 15:57

Tgt Ion:180 Resp: 8868
 Ion Ratio Lower Upper
 180 100
 182 96.3 75.8 113.8
 145 32.5 25.7 38.5

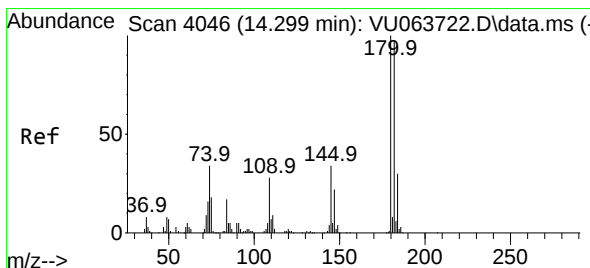
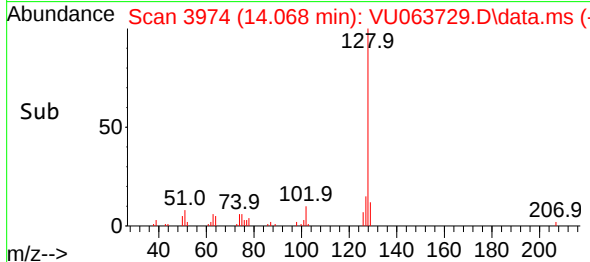
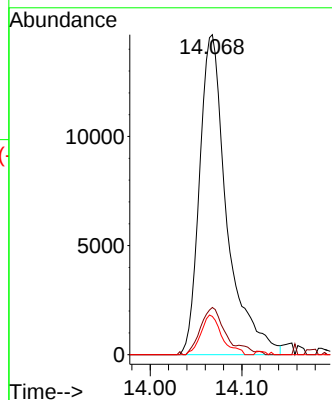
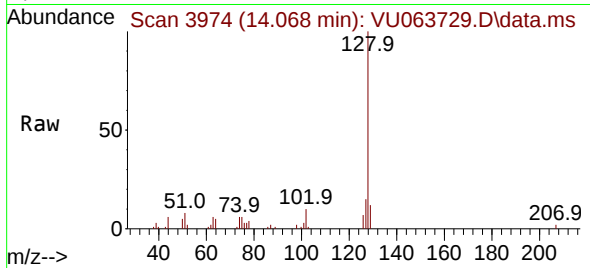




#71
Naphthalene
Concen: 3.867 ug/L
RT: 14.068 min Scan# 3971
Delta R.T. 0.010 min
Lab File: VU063729.D
Acq: 17 Nov 2025 15:57

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

Tgt Ion:128	Resp:	30357
Ion Ratio	Lower	Upper
128	100	
127	12.4	10.3 15.5
129	9.5	8.7 13.1



#72
1,2,3-Trichlorobenzene
Concen: 3.013 ug/L
RT: 14.306 min Scan# 4048
Delta R.T. 0.007 min
Lab File: VU063729.D
Acq: 17 Nov 2025 15:57

Tgt Ion:180	Resp:	8424
Ion Ratio	Lower	Upper
180	100	
182	97.3	76.9 115.3
145	35.5	26.6 39.8

