

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD051625\
 Data File : VD080364.D
 Acq On : 16 May 2025 12:02
 Operator : RP/MD
 Sample : Q2039-01
 Misc : 5.06G/5ml/MSVOA_D/SOIL/B
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 TR-05-05142025

Quant Time: May 17 01:18:02 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D050625S.M
 Quant Title : SW846 8260
 QLast Update : Wed May 07 08:57:11 2025
 Response via : Initial Calibration

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

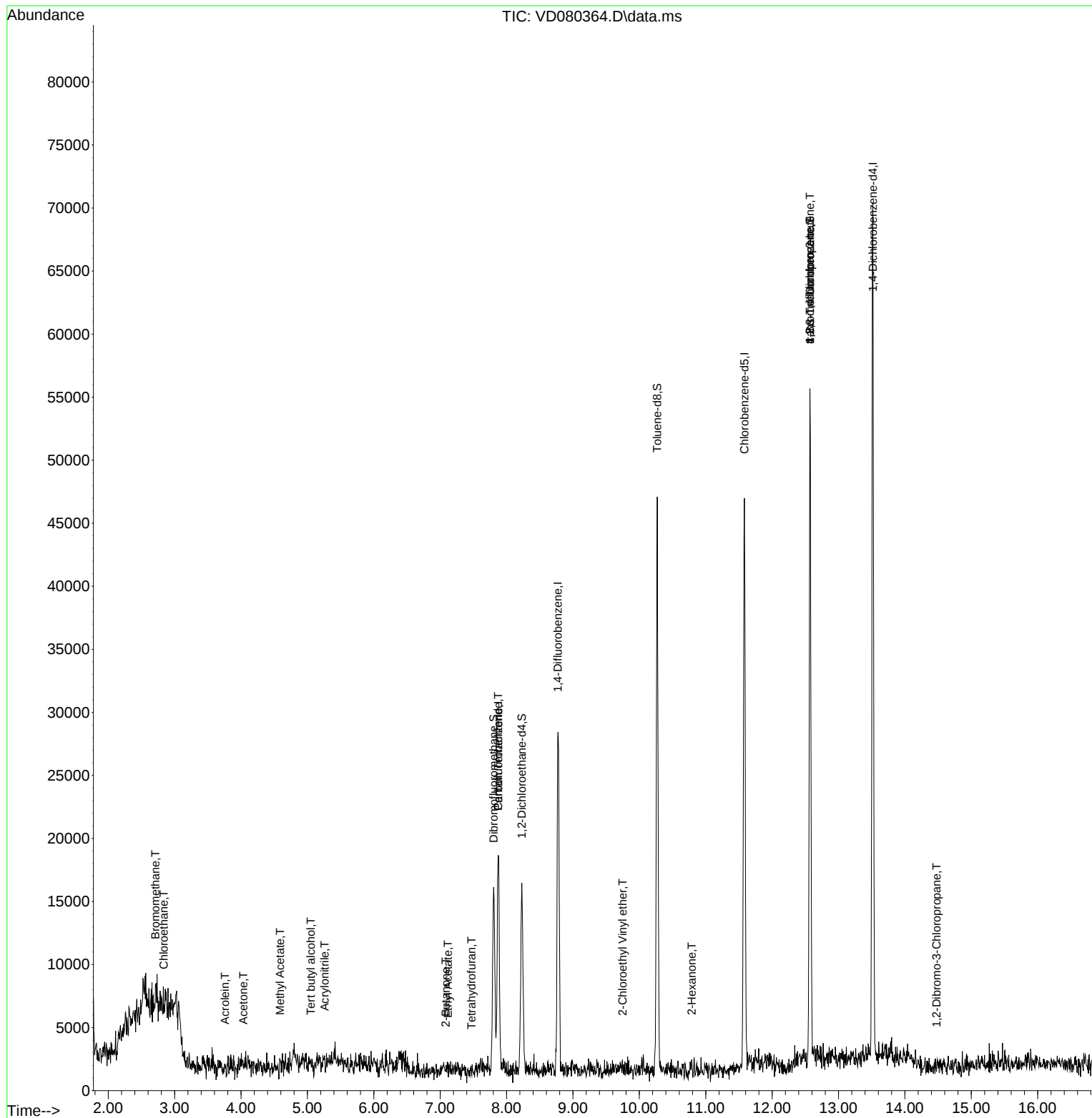
Internal Standards						
1) Pentafluorobenzene	7.876	168	12190	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.770	114	22438	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.582	117	25262	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.517	152	18074	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.229	65	11226	71.214	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 142.420%	
35) Dibromofluoromethane	7.806	113	10531	70.026	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 140.060%	
50) Toluene-d8	10.270	98	29338	49.512	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 99.020%	
62) 4-Bromofluorobenzene	12.570	95	16405	86.256	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 172.520%#	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.900	85	55	Below Cal	#	43
3) Chloromethane	2.141	50	304	Below Cal	#	39
5) Bromomethane	2.712	94	373	1.635	ug/l	80
6) Chloroethane	2.835	64	370	1.651	ug/l #	40
11) Tert butyl alcohol	5.053	59	73	7.632	ug/l #	82
13) Acrolein	3.759	56	58	3.446	ug/l #	13
15) Acrylonitrile	5.259	53	72	1.997	ug/l #	1
16) Acetone	4.035	43	548	2.908	ug/l #	43
18) Methyl Acetate	4.588	43	116	1.137	ug/l #	49
20) Methylene Chloride	4.812	84	190	Below Cal	#	66
25) 2-Butanone	7.082	43	66	1.522	ug/l #	47
29) Tetrahydrofuran	7.470	42	60	2.122	ug/l #	32
37) Ethyl Acetate	7.117	43	141	1.200	ug/l #	1
38) Carbon Tetrachloride	7.876	117	1384	5.904	ug/l #	14
58) 2-Chloroethyl Vinyl ether	9.747	63	129	2.000	ug/l #	48
59) 2-Hexanone	10.788	43	131	1.734	ug/l	95
76) 1,2,3-Trichloropropane	12.570	75	8237	47.220	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.570	75	8237	89.632	ug/l #	16
92) 1,2-Dibromo-3-Chloropr...	14.476	75	65	1.582	ug/l #	2

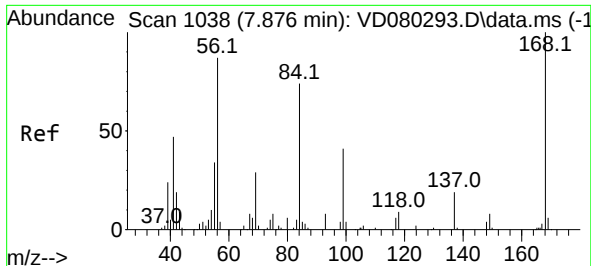
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD051625\
Data File : VD080364.D
Acq On : 16 May 2025 12:02
Operator : RP/MD
Sample : Q2039-01
Misc : 5.06G/5ml/MSVOA_D/SOIL/B
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
TR-05-05142025

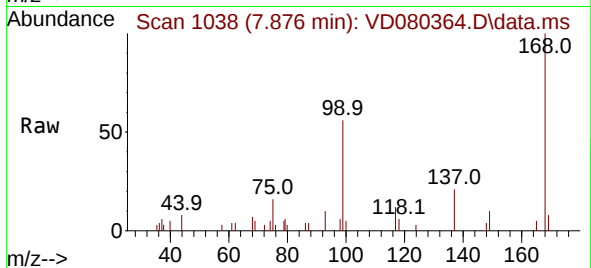
Quant Time: May 17 01:18:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D050625S.M
Quant Title : SW846 8260
QLast Update : Wed May 07 08:57:11 2025
Response via : Initial Calibration



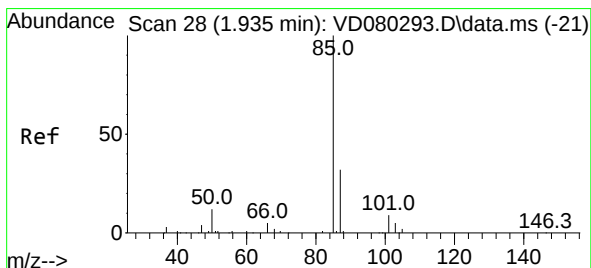
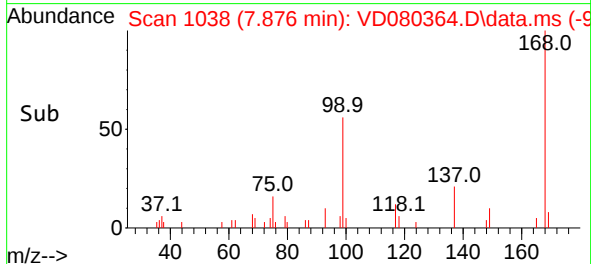
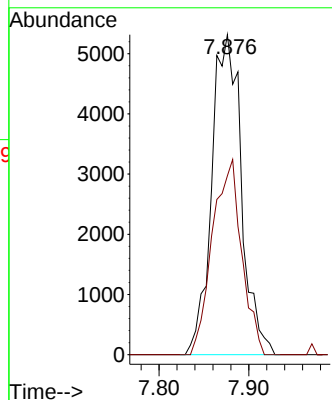


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.876 min Scan# 1038
Delta R.T. 0.001 min
Lab File: VD080364.D
Acq: 16 May 2025 12:02

Instrument :
MSVOA_D
ClientSampleId :
TR-05-05142025

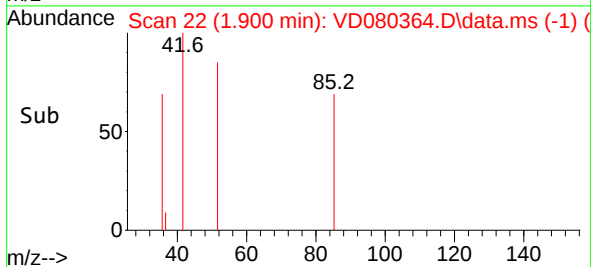
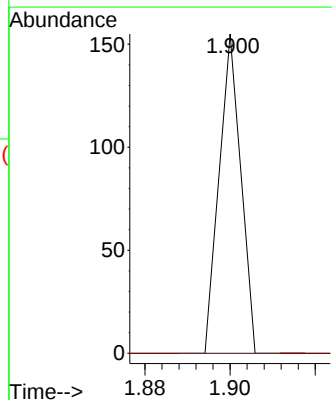
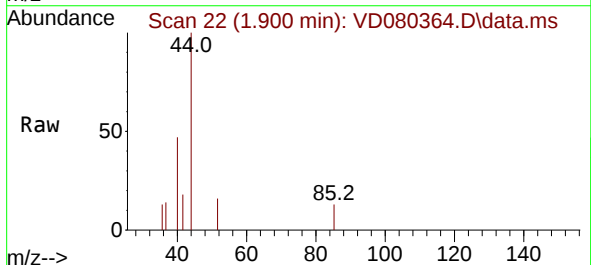


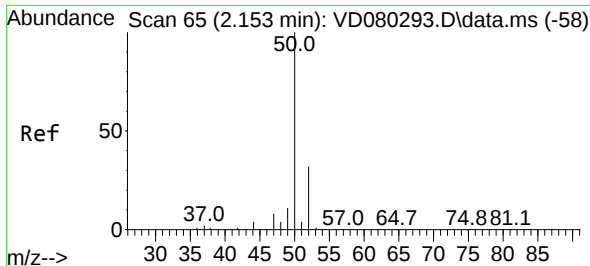
Tgt Ion:168 Resp: 12190
Ion Ratio Lower Upper
168 100
99 55.9 46.0 69.0



#2
Dichlorodifluoromethane
Concen: Below Cal
RT: 1.900 min Scan# 22
Delta R.T. -0.034 min
Lab File: VD080364.D
Acq: 16 May 2025 12:02

Tgt Ion: 85 Resp: 55
Ion Ratio Lower Upper
85 100
87 0.0 16.1 48.2#

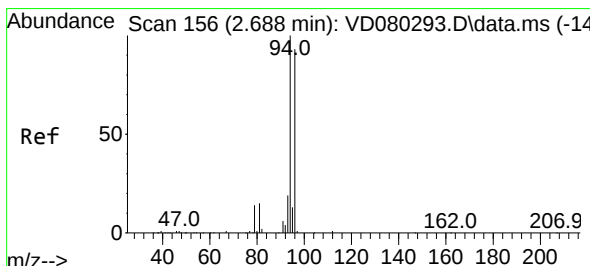
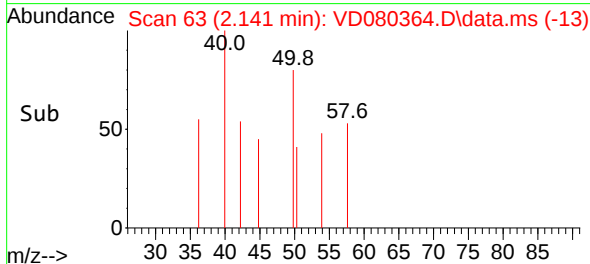
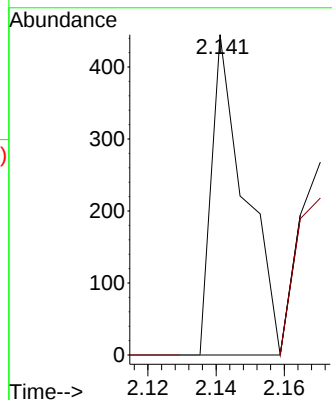
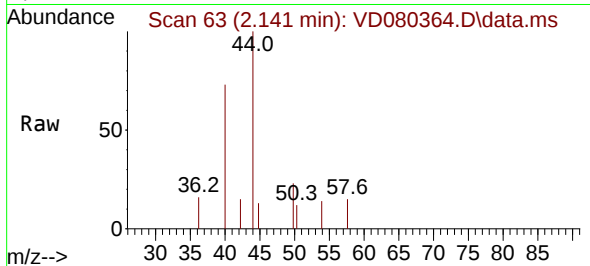




#3
Chloromethane
Concen: Below Cal
RT: 2.141 min Scan# 61
Delta R.T. -0.005 min
Lab File: VD080364.D
Acq: 16 May 2025 12:02

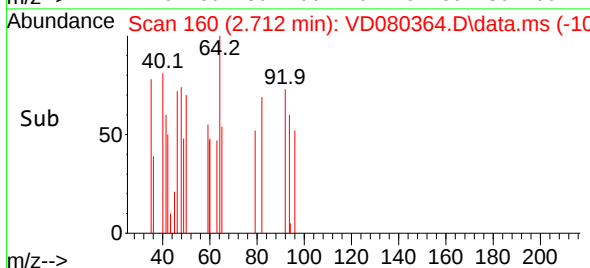
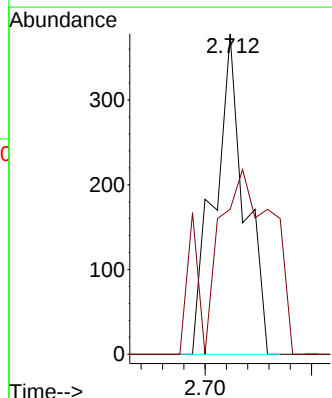
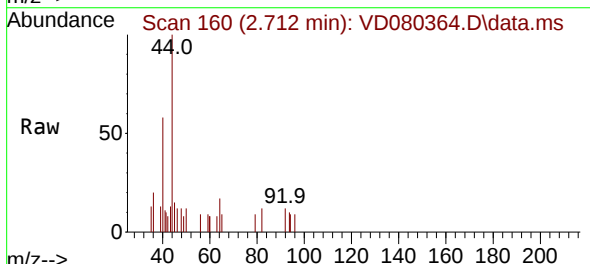
Instrument :
MSVOA_D
ClientSampleId :
TR-05-05142025

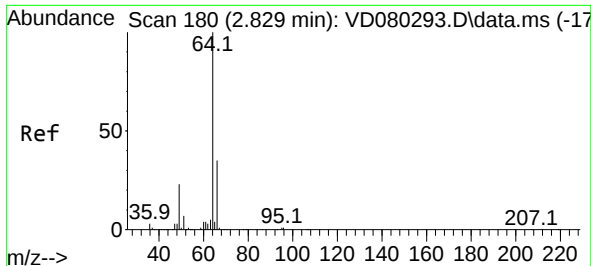
Tgt Ion: 50 Resp: 304
Ion Ratio Lower Upper
50 100
52 0.0 28.8 43.2#



#5
Bromomethane
Concen: 1.635 ug/l
RT: 2.712 min Scan# 160
Delta R.T. 0.019 min
Lab File: VD080364.D
Acq: 16 May 2025 12:02

Tgt Ion: 94 Resp: 373
Ion Ratio Lower Upper
94 100
96 114.2 76.2 114.2

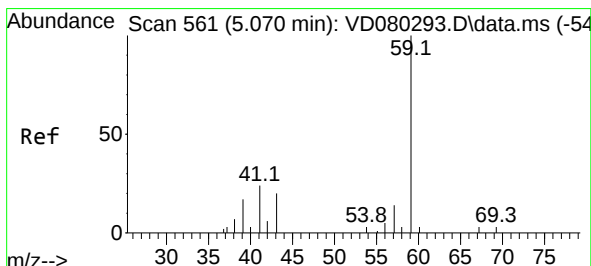
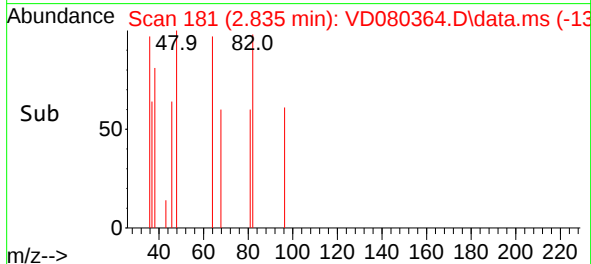
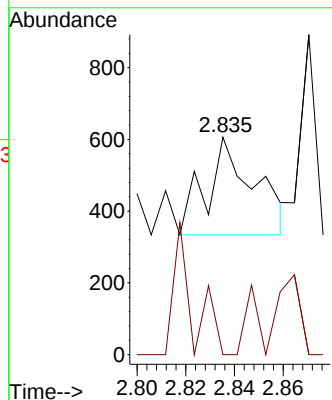
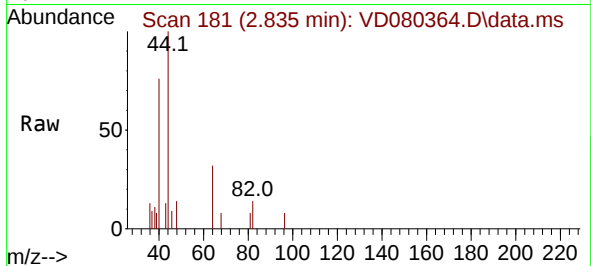




#6
Chloroethane
Concen: 1.651 ug/l
RT: 2.835 min Scan# 11
Delta R.T. 0.001 min
Lab File: VD080364.D
Acq: 16 May 2025 12:02

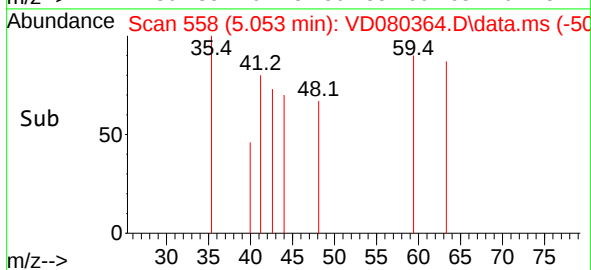
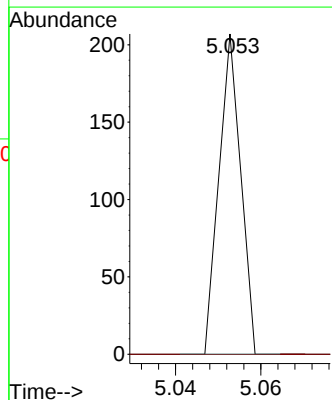
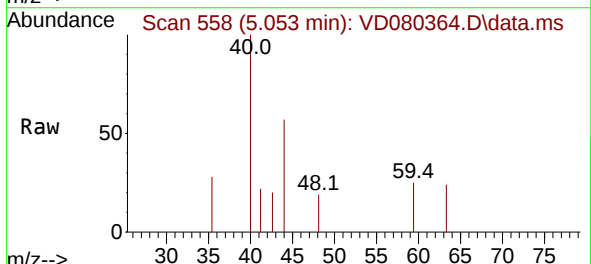
Instrument :
MSVOA_D
ClientSampleId :
TR-05-05142025

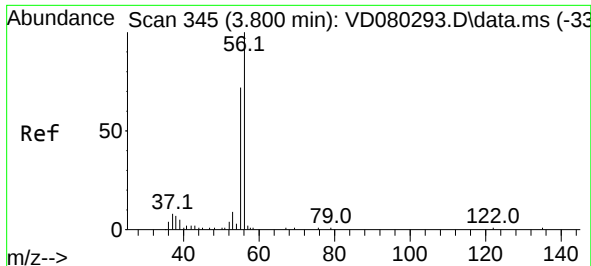
Tgt Ion: 64 Resp: 370
Ion Ratio Lower Upper
64 100
66 0.0 27.6 41.4#



#11
Tert butyl alcohol
Concen: 7.632 ug/l
RT: 5.053 min Scan# 558
Delta R.T. -0.005 min
Lab File: VD080364.D
Acq: 16 May 2025 12:02

Tgt Ion: 59 Resp: 73
Ion Ratio Lower Upper
59 100
57 0.0 4.8 7.2#





#13

Acrolein

Concen: 3.446 ug/l

RT: 3.759 min Scan# 31

Delta R.T. -0.034 min

Lab File: VD080364.D

Acq: 16 May 2025 12:02

Instrument :

MSVOA_D

ClientSampleId :

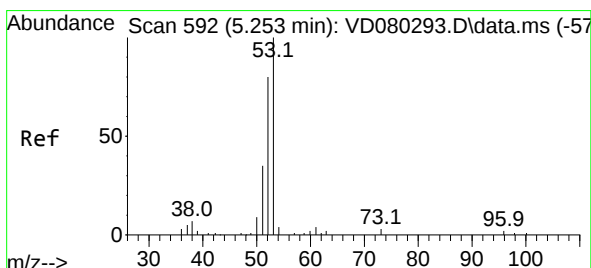
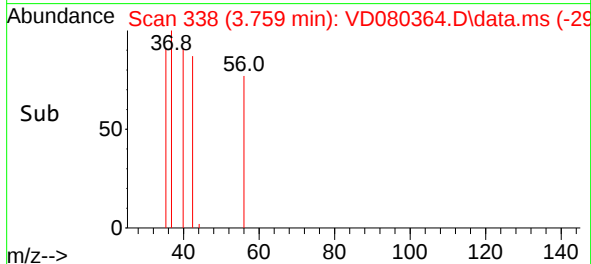
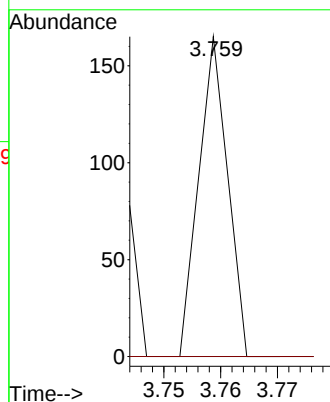
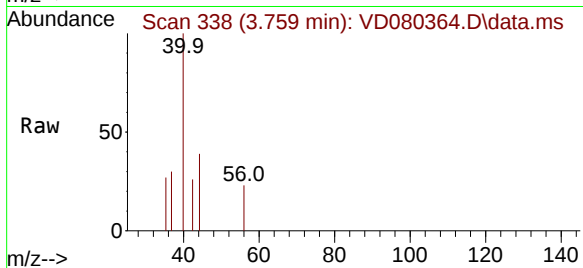
TR-05-05142025

Tgt Ion: 56 Resp: 58

Ion Ratio Lower Upper

56 100

55 0.0 58.2 87.2#



#15

Acrylonitrile

Concen: 1.997 ug/l

RT: 5.259 min Scan# 593

Delta R.T. 0.007 min

Lab File: VD080364.D

Acq: 16 May 2025 12:02

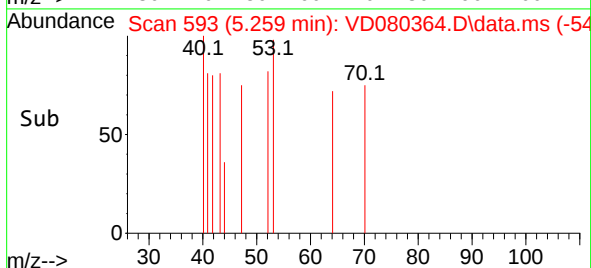
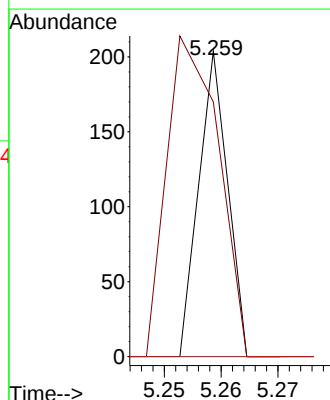
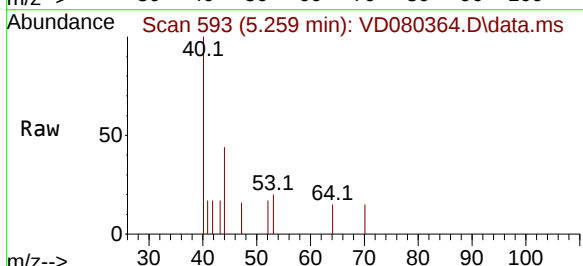
Tgt Ion: 53 Resp: 72

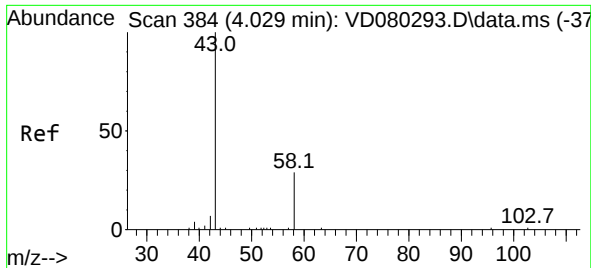
Ion Ratio Lower Upper

53 100

52 187.5 66.2 99.4#

51 0.0 30.3 45.5#

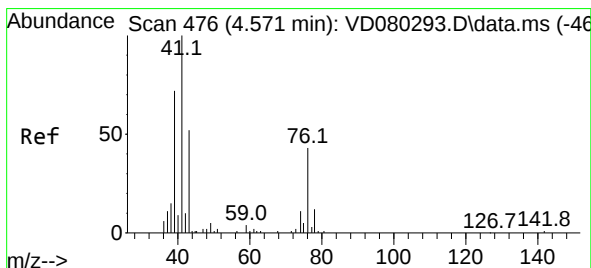
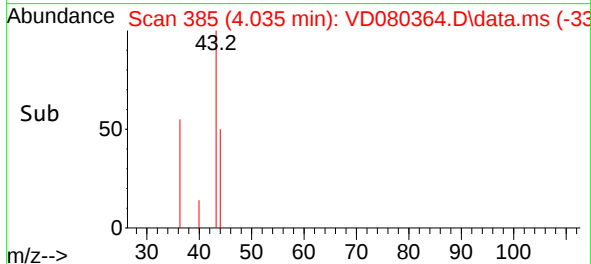
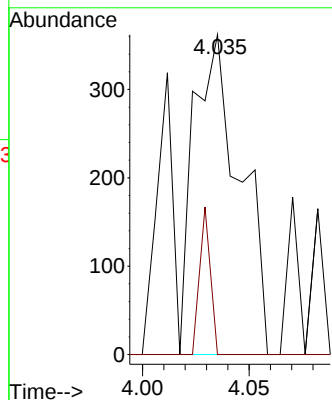
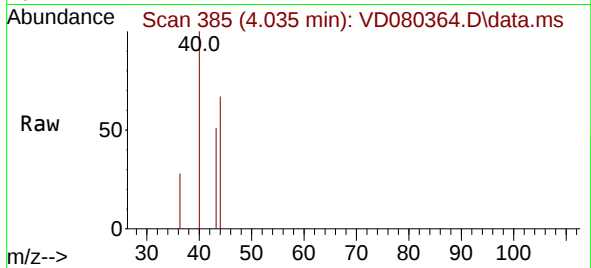




#16
Acetone
Concen: 2.908 ug/l
RT: 4.035 min Scan# 385
Delta R.T. 0.012 min
Lab File: VD080364.D
Acq: 16 May 2025 12:02

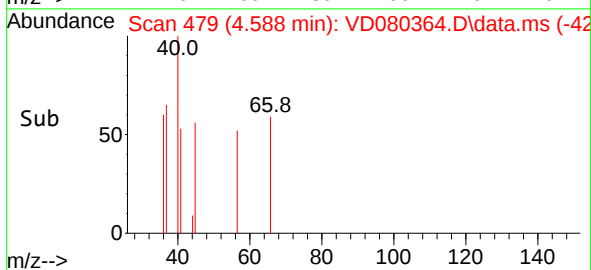
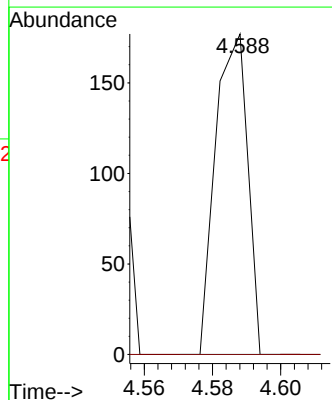
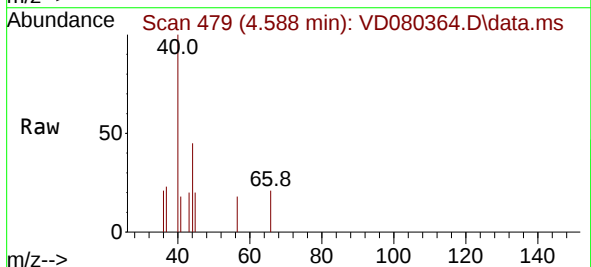
Instrument :
MSVOA_D
ClientSampleId :
TR-05-05142025

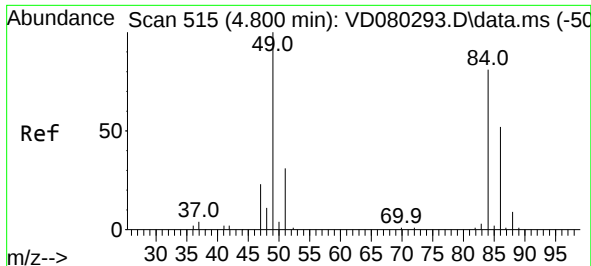
Tgt Ion: 43 Resp: 548
Ion Ratio Lower Upper
43 100
58 0.0 25.4 38.2#



#18
Methyl Acetate
Concen: 1.137 ug/l
RT: 4.588 min Scan# 479
Delta R.T. 0.024 min
Lab File: VD080364.D
Acq: 16 May 2025 12:02

Tgt Ion: 43 Resp: 116
Ion Ratio Lower Upper
43 100
74 0.0 20.5 30.7#

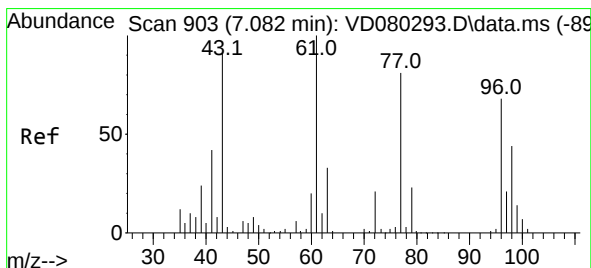
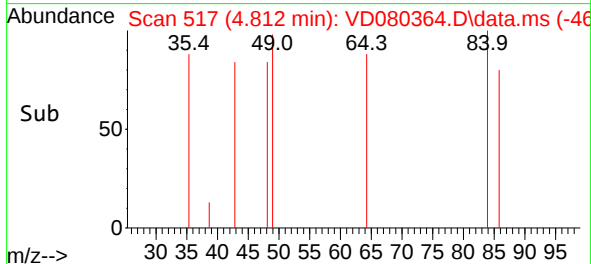
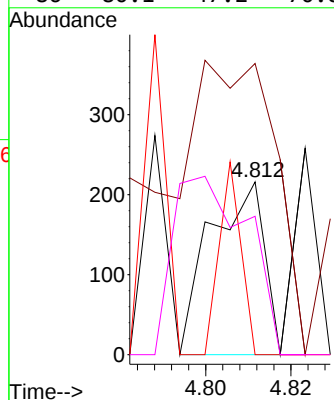
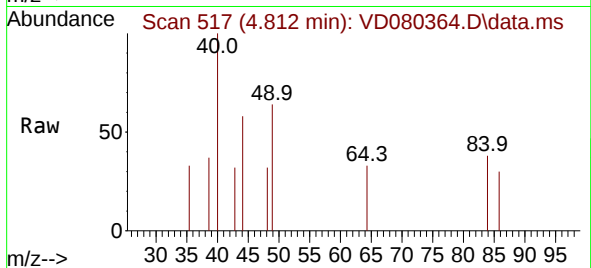




#20
Methylene Chloride
Concen: Below Cal
RT: 4.812 min Scan# 515
Delta R.T. 0.007 min
Lab File: VD080364.D
Acq: 16 May 2025 12:02

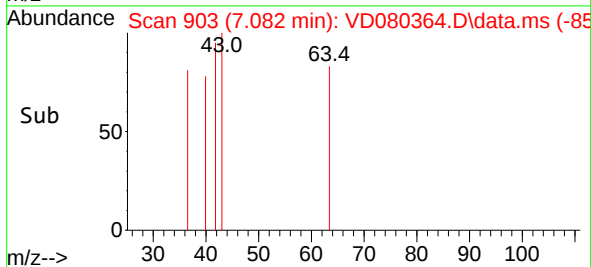
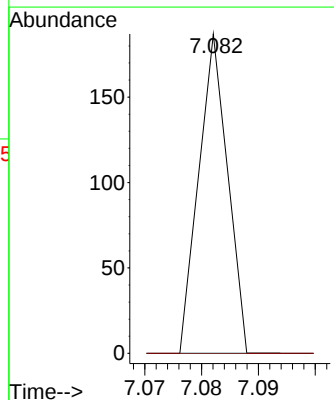
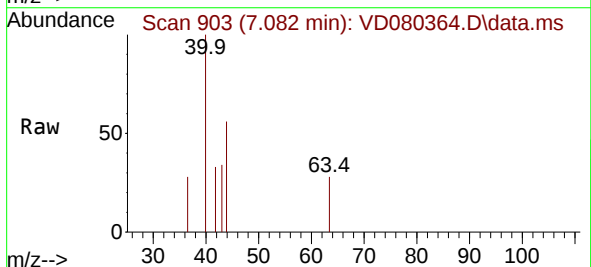
Instrument :
MSVOA_D
ClientSampleId :
TR-05-05142025

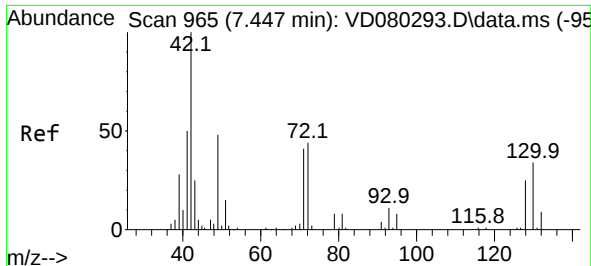
Tgt Ion: 84 Resp: 190
Ion Ratio Lower Upper
84 100
49 78.2 86.5 129.7#
51 0.0 26.9 40.3#
86 80.1 47.2 70.8#



#25
2-Butanone
Concen: 1.522 ug/l
RT: 7.082 min Scan# 903
Delta R.T. -0.005 min
Lab File: VD080364.D
Acq: 16 May 2025 12:02

Tgt Ion: 43 Resp: 66
Ion Ratio Lower Upper
43 100
72 0.0 22.3 33.5#

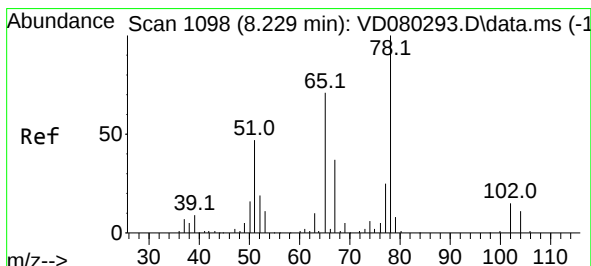
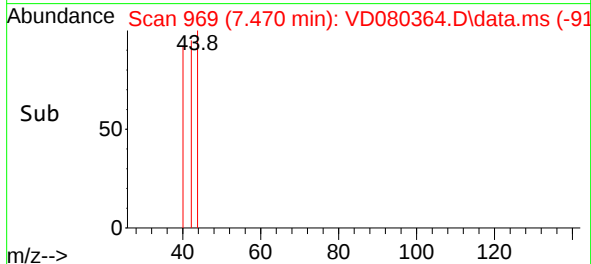
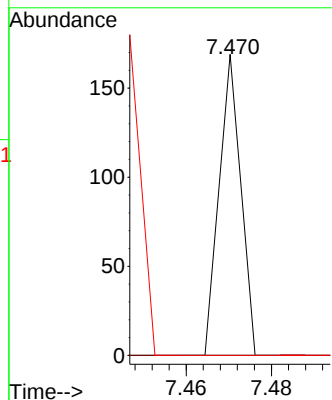
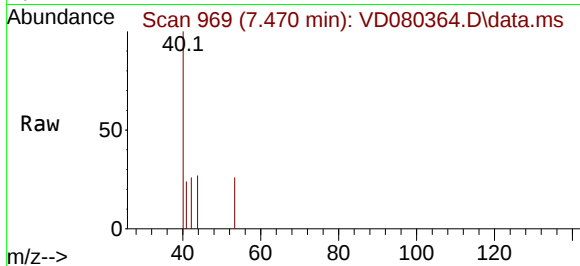




#29
Tetrahydrofuran
Concen: 2.122 ug/l
RT: 7.470 min Scan# 969
Delta R.T. 0.024 min
Lab File: VD080364.D
Acq: 16 May 2025 12:02

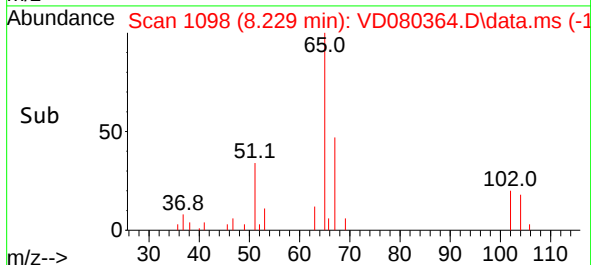
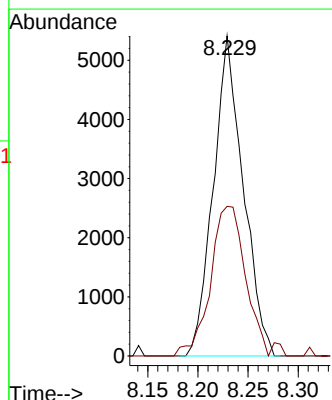
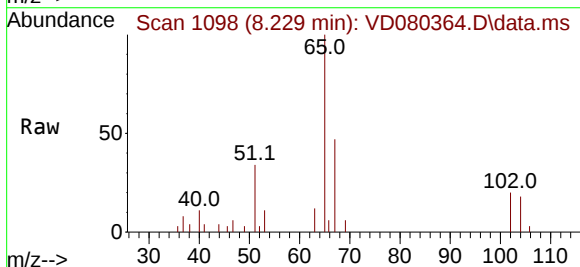
Instrument :
MSVOA_D
ClientSampleId :
TR-05-05142025

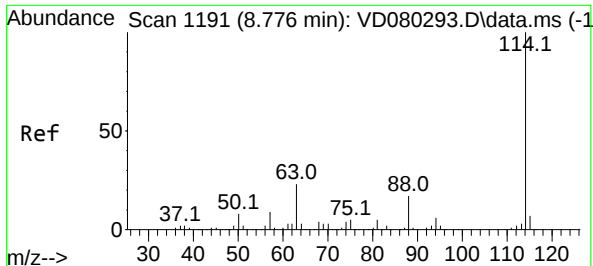
Tgt Ion: 42 Resp: 60
Ion Ratio Lower Upper
42 100
72 0.0 36.7 55.1#
71 0.0 34.4 51.6#



#33
1,2-Dichloroethane-d4
Concen: 71.214 ug/l
RT: 8.229 min Scan# 1098
Delta R.T. 0.001 min
Lab File: VD080364.D
Acq: 16 May 2025 12:02

Tgt Ion: 65 Resp: 11226
Ion Ratio Lower Upper
65 100
67 54.5 0.0 109.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.770 min Scan# 1191

Delta R.T. -0.005 min

Lab File: VD080364.D

Acq: 16 May 2025 12:02

Instrument :

MSVOA_D

ClientSampleId :

TR-05-05142025

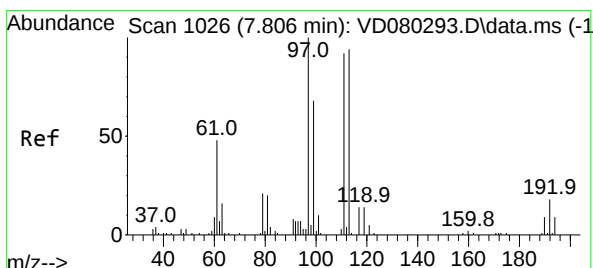
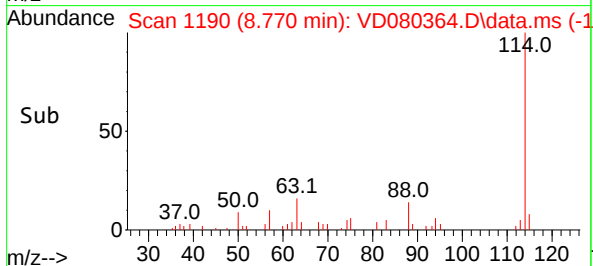
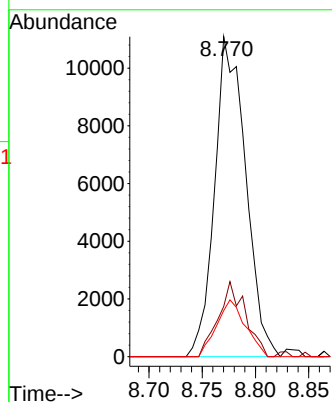
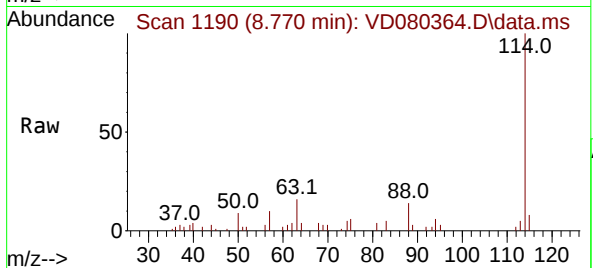
Tgt Ion:114 Resp: 22438

Ion Ratio Lower Upper

114 100

63 15.7 0.0 38.8

88 14.4 0.0 30.6



#35

Dibromofluoromethane

Concen: 70.026 ug/l

RT: 7.806 min Scan# 1026

Delta R.T. 0.001 min

Lab File: VD080364.D

Acq: 16 May 2025 12:02

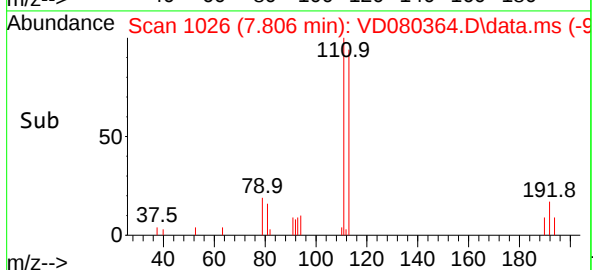
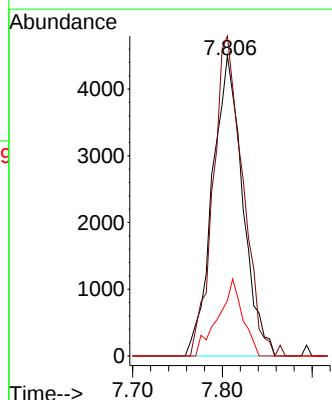
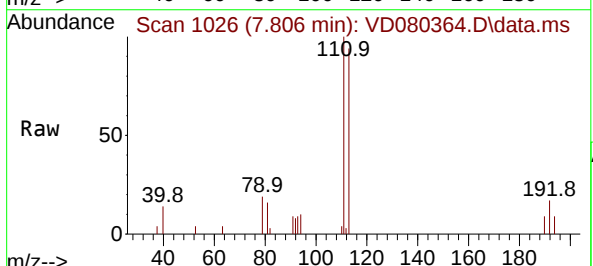
Tgt Ion:113 Resp: 10531

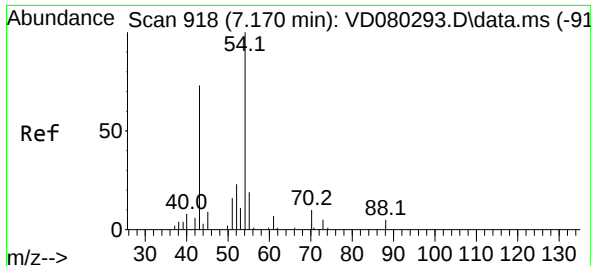
Ion Ratio Lower Upper

113 100

111 104.3 82.5 123.7

192 20.7 16.6 25.0





#37

Ethyl Acetate

Concen: 1.200 ug/l

RT: 7.117 min Scan# 90

Delta R.T. -0.052 min

Lab File: VD080364.D

Acq: 16 May 2025 12:02

Instrument :

MSVOA_D

ClientSampleId :

TR-05-05142025

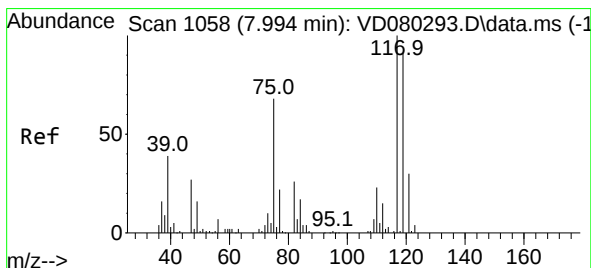
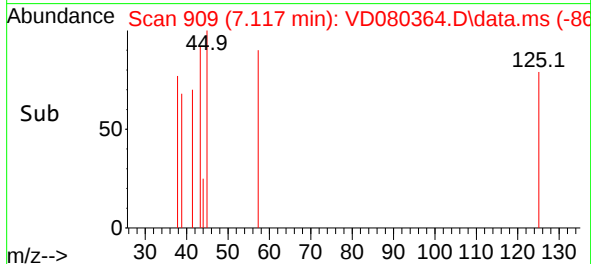
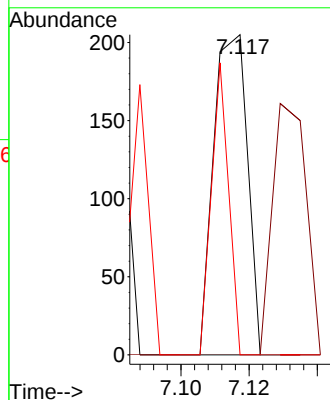
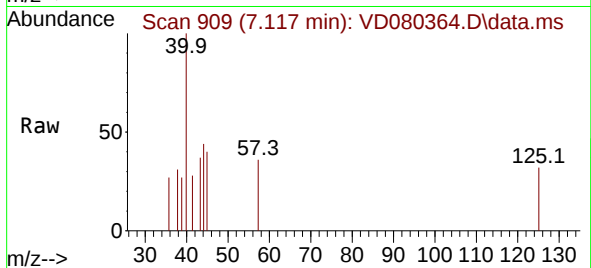
Tgt Ion: 43 Resp: 141

Ion Ratio Lower Upper

43 100

61 78.0 11.0 16.4#

70 46.8 9.4 14.2#



#38

Carbon Tetrachloride

Concen: 5.904 ug/l

RT: 7.876 min Scan# 1038

Delta R.T. -0.111 min

Lab File: VD080364.D

Acq: 16 May 2025 12:02

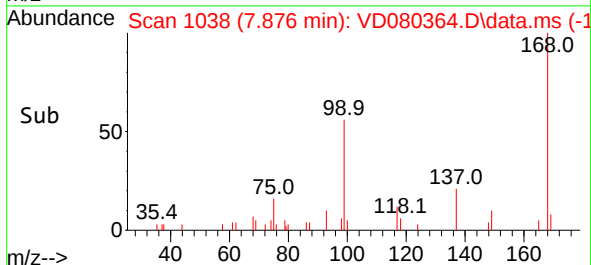
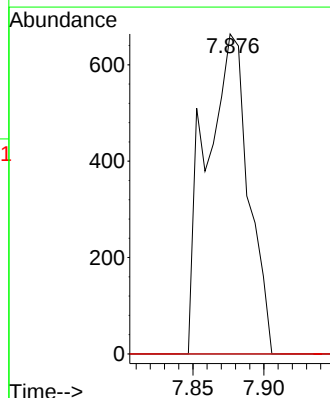
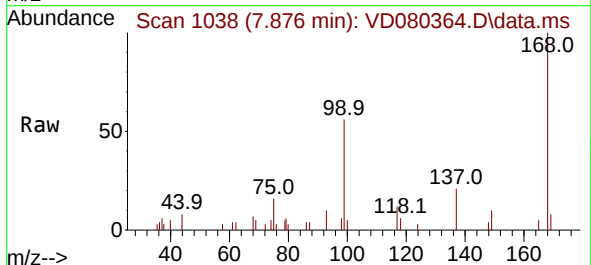
Tgt Ion: 117 Resp: 1384

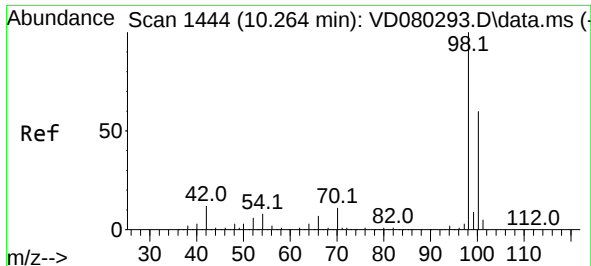
Ion Ratio Lower Upper

117 100

119 0.0 73.4 110.0#

121 0.0 24.5 36.7#

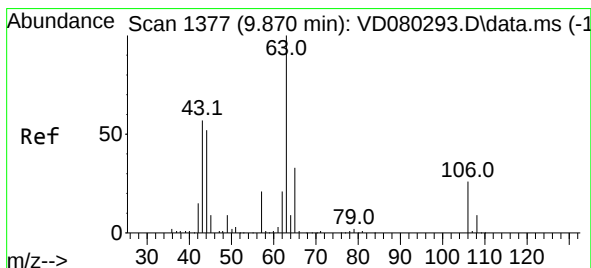
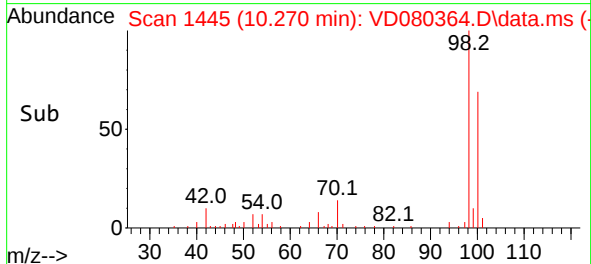
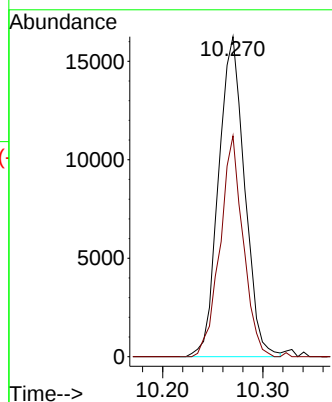
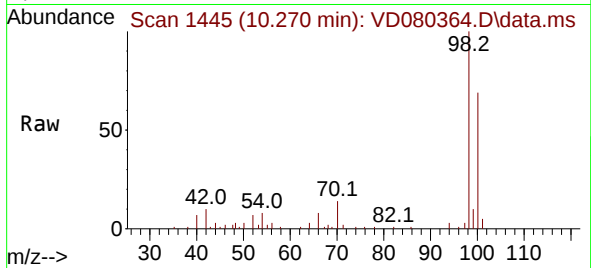




#50
Toluene-d8
Concen: 49.512 ug/l
RT: 10.270 min Scan# 1444
Delta R.T. 0.001 min
Lab File: VD080364.D
Acq: 16 May 2025 12:02

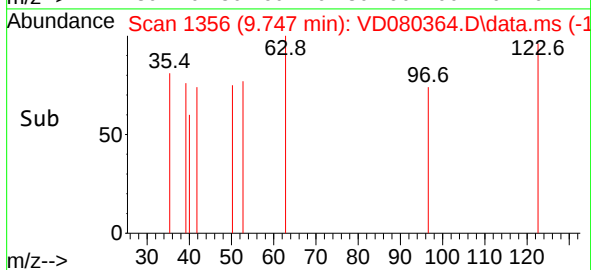
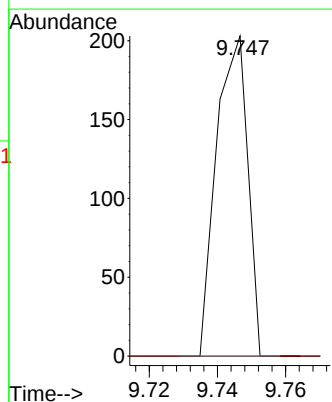
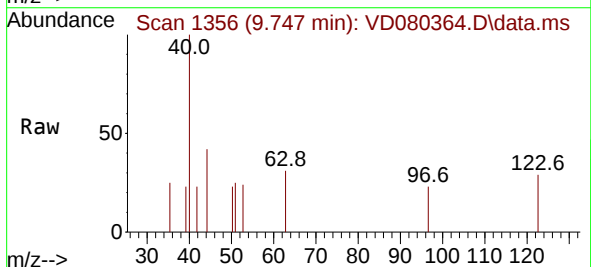
Instrument :
MSVOA_D
ClientSampleId :
TR-05-05142025

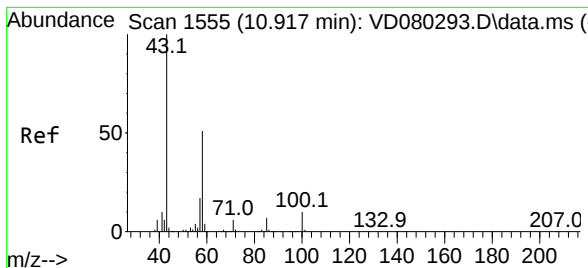
Tgt Ion: 98 Resp: 29338
Ion Ratio Lower Upper
98 100
100 61.1 50.2 75.4



#58
2-Chloroethyl Vinyl ether
Concen: 2.000 ug/l
RT: 9.747 min Scan# 1356
Delta R.T. -0.122 min
Lab File: VD080364.D
Acq: 16 May 2025 12:02

Tgt Ion: 63 Resp: 129
Ion Ratio Lower Upper
63 100
106 0.0 21.8 32.6





#59

2-Hexanone

Concen: 1.734 ug/l

RT: 10.788 min Scan# 1533

Delta R.T. -0.128 min

Lab File: VD080364.D

Acq: 16 May 2025 12:02

Instrument :

MSVOA_D

ClientSampleId :

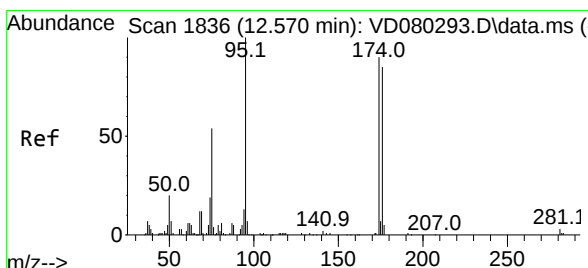
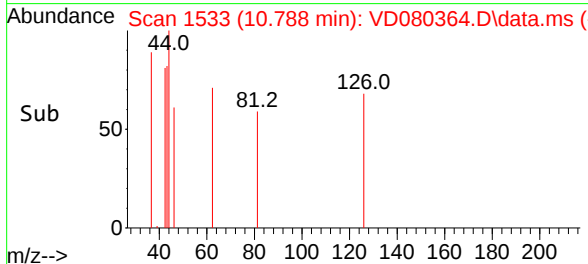
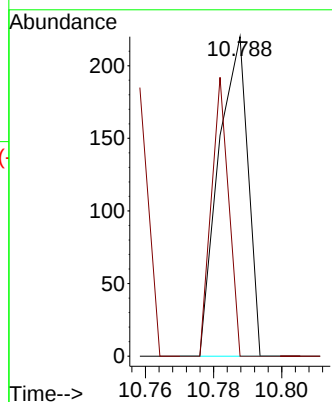
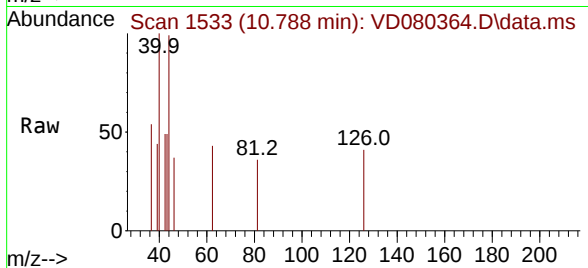
TR-05-05142025

Tgt Ion: 43 Resp: 131

Ion Ratio Lower Upper

43 100

58 51.9 27.8 83.4



#62

4-Bromofluorobenzene

Concen: 86.256 ug/l

RT: 12.570 min Scan# 1836

Delta R.T. 0.001 min

Lab File: VD080364.D

Acq: 16 May 2025 12:02

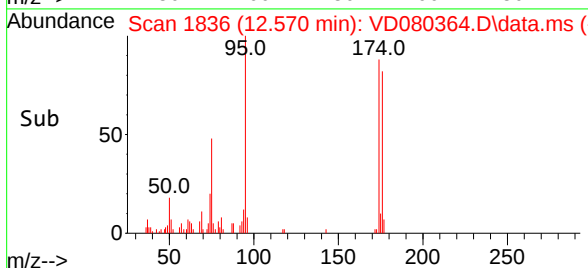
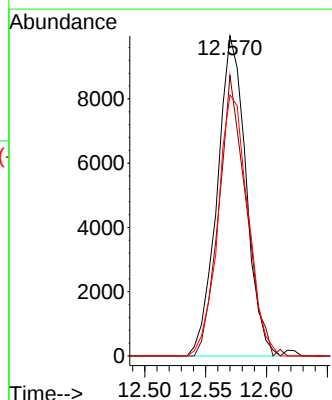
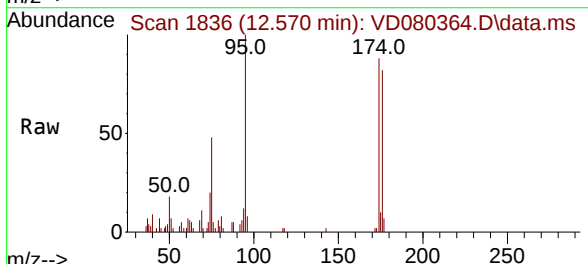
Tgt Ion: 95 Resp: 16405

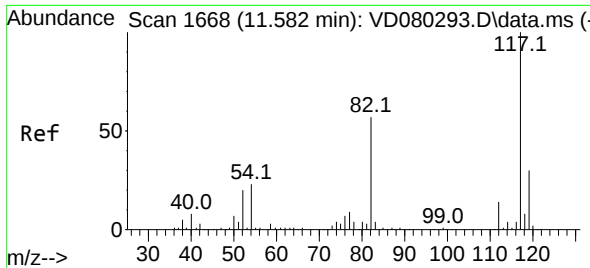
Ion Ratio Lower Upper

95 100

174 82.9 0.0 173.4

176 85.0 0.0 166.6

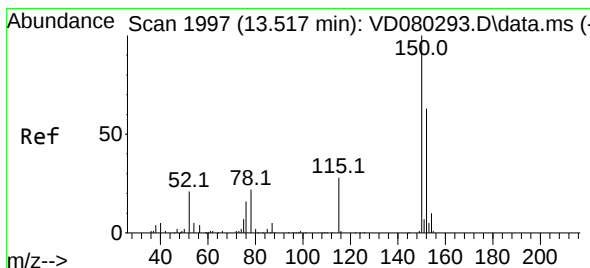
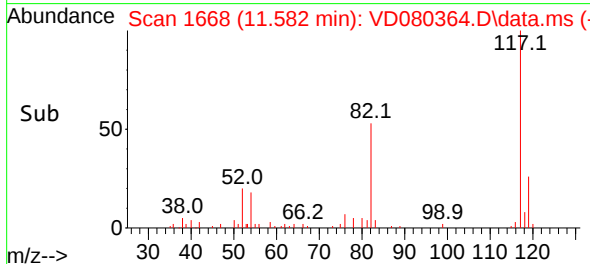
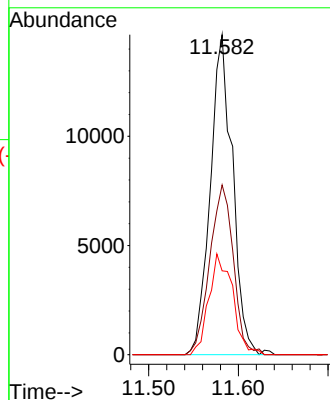
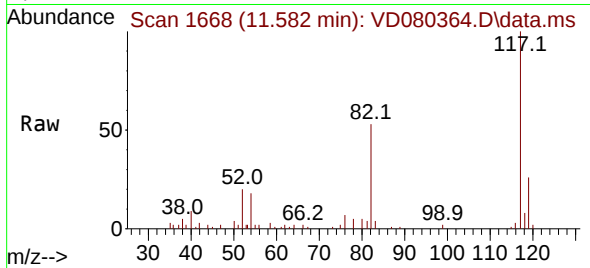




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.582 min Scan# 117
Delta R.T. 0.001 min
Lab File: VD080364.D
Acq: 16 May 2025 12:02

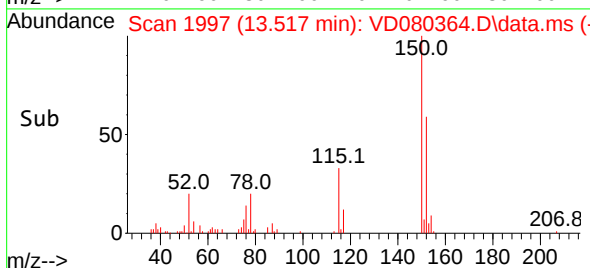
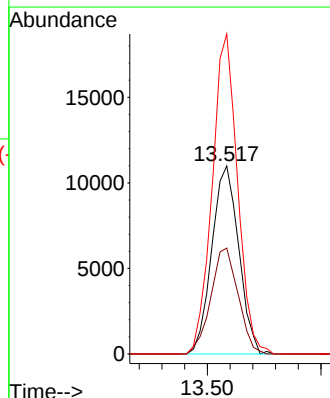
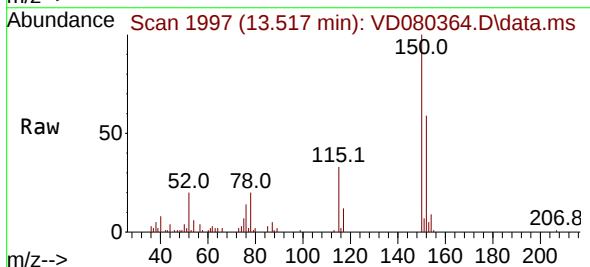
Instrument :
MSVOA_D
ClientSampleId :
TR-05-05142025

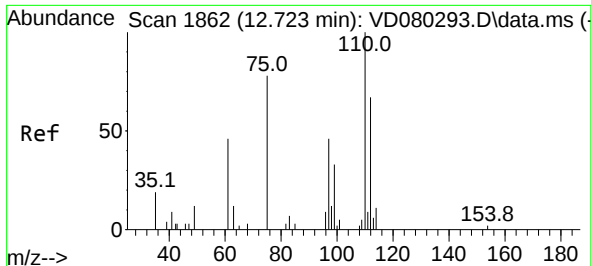
Tgt Ion:117 Resp: 25262
Ion Ratio Lower Upper
117 100
82 53.0 45.8 68.6
119 26.2 26.2 39.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.517 min Scan# 1997
Delta R.T. 0.001 min
Lab File: VD080364.D
Acq: 16 May 2025 12:02

Tgt Ion:152 Resp: 18074
Ion Ratio Lower Upper
152 100
115 57.3 28.9 86.8
150 160.1 0.0 354.8

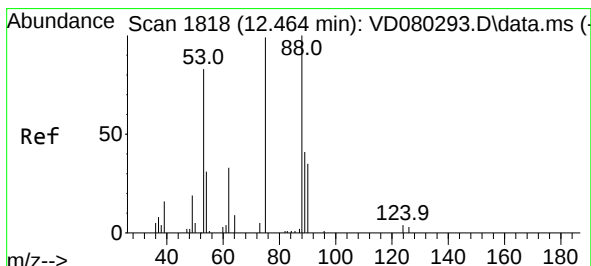
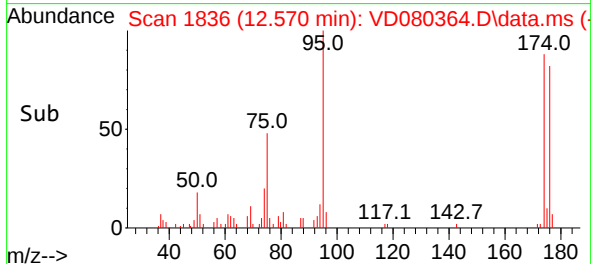
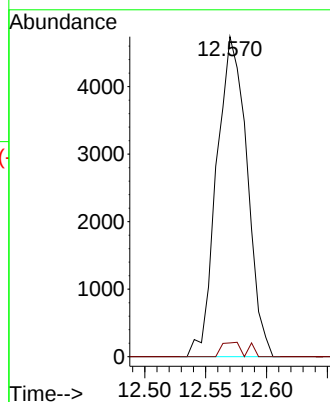
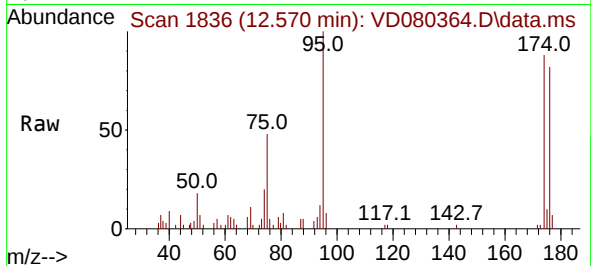




#76
1,2,3-Trichloropropane
Concen: 47.220 ug/l
RT: 12.570 min Scan# 1836
Delta R.T. -0.152 min
Lab File: VD080364.D
Acq: 16 May 2025 12:02

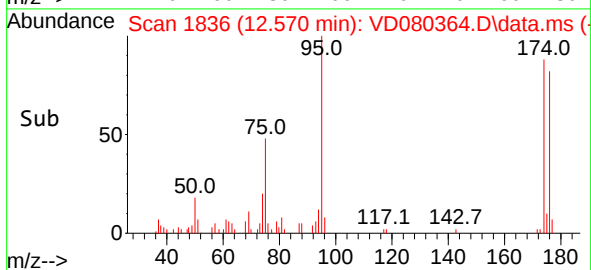
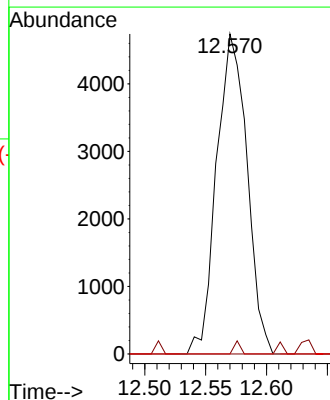
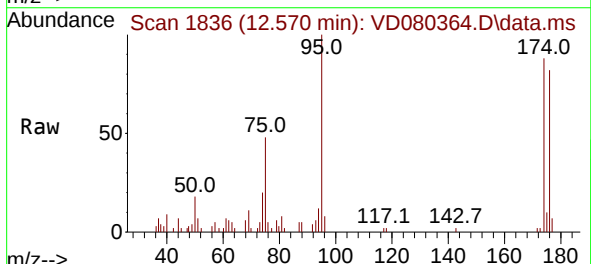
Instrument :
MSVOA_D
ClientSampleId :
TR-05-05142025

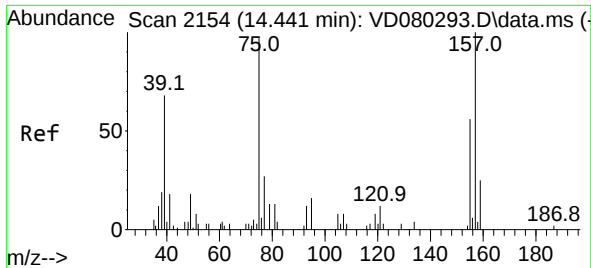
Tgt Ion: 75 Resp: 8237
Ion Ratio Lower Upper
75 100
77 3.5 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 89.632 ug/l
RT: 12.570 min Scan# 1836
Delta R.T. 0.101 min
Lab File: VD080364.D
Acq: 16 May 2025 12:02

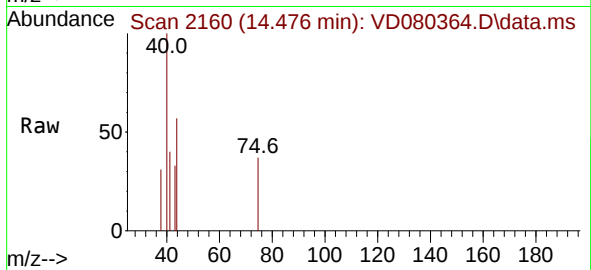
Tgt Ion: 75 Resp: 8237
Ion Ratio Lower Upper
75 100
53 0.8 68.7 103.1#
89 0.0 36.1 54.1#





#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.582 ug/l
 RT: 14.476 min Scan# 21
 Delta R.T. 0.036 min
 Lab File: VD080364.D
 Acq: 16 May 2025 12:02

Instrument :
 MSVOA_D
 ClientSampleId :
 TR-05-05142025



Tgt Ion: 75	Resp:	65
Ion Ratio	Lower	Upper
75	100	
155	0.0	40.6 122.0#
157	0.0	53.3 159.9#

