

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD051525\
 Data File : VD080352.D
 Acq On : 15 May 2025 16:51
 Operator : RP/MD
 Sample : Q2034-23
 Misc : 3.90G/10ml/MSVOA_D/SOIL/A
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 L3-WC-6-VOC

Quant Time: May 16 02:59:49 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)

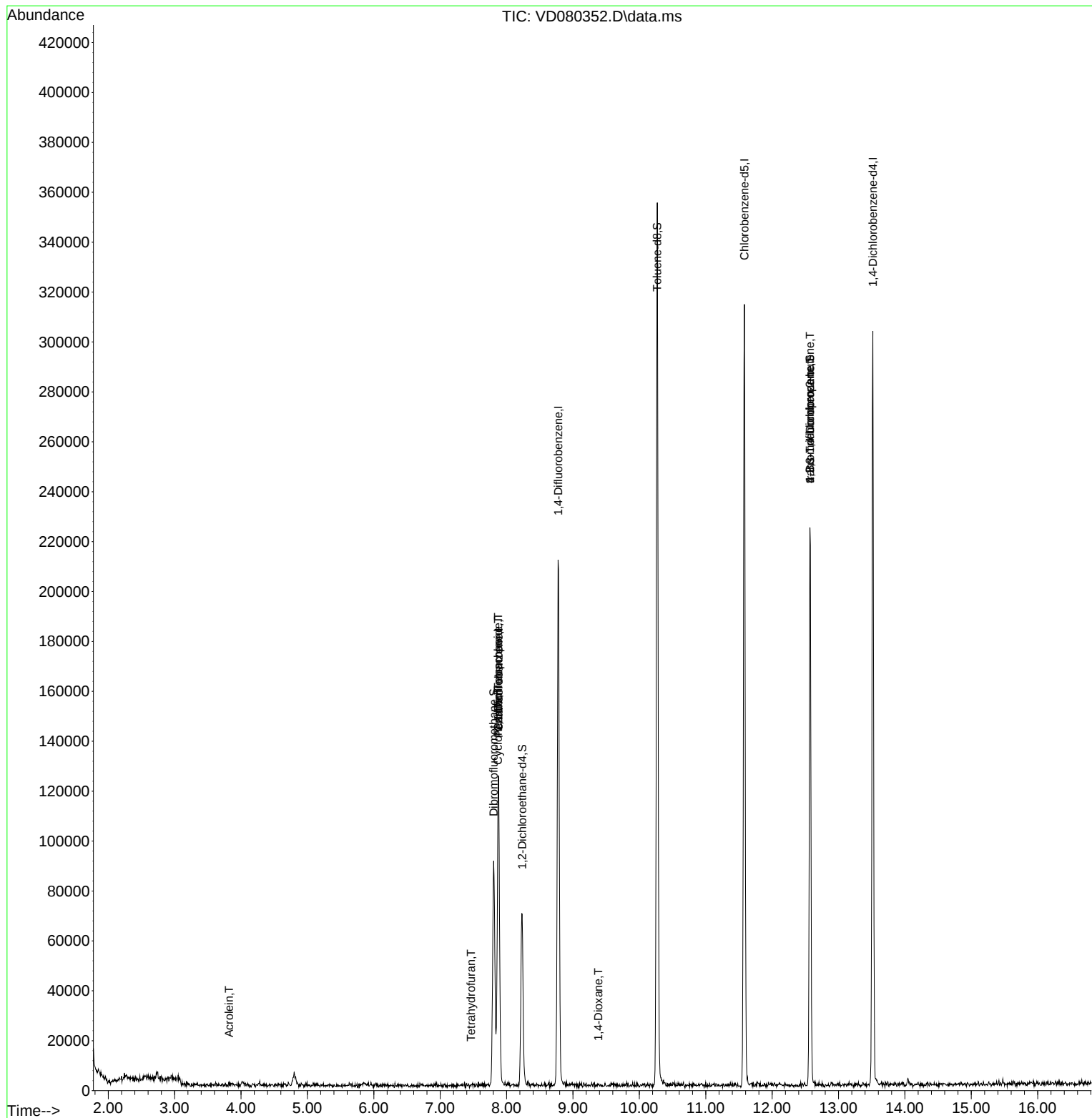
Internal Standards						
1) Pentafluorobenzene	7.882	168	94092	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.776	114	179898	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.582	117	176079	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.517	152	79583	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.235	65	55567	45.668	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	91.340%
35) Dibromofluoromethane	7.806	113	64120	53.179	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	106.360%
50) Toluene-d8	10.270	98	239676	50.450	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	100.900%
62) 4-Bromofluorobenzene	12.570	95	68772	45.101	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	90.200%
Target Compounds						
2) Dichlorodifluoromethane	1.982	85	64	Below Cal	#	43
3) Chloromethane	2.153	50	265	Below Cal	#	39
13) Acrolein	3.818	56	192	1.478	ug/l #	52
16) Acetone	4.023	43	2018	Below Cal	#	43
20) Methylene Chloride	4.800	84	1728	Below Cal	#	85
29) Tetrahydrofuran	7.464	42	265	1.214	ug/l #	32
31) Cyclohexane	7.870	56	2711	1.371	ug/l #	29
36) 1,1-Dichloropropene	7.876	75	8374	4.647	ug/l #	43
38) Carbon Tetrachloride	7.876	117	9295	4.946	ug/l #	14
49) 1,4-Dioxane	9.382	88	58	6.188	ug/l #	5
76) 1,2,3-Trichloropropane	12.570	75	34834	45.352	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.570	75	34834	86.086	ug/l #	15

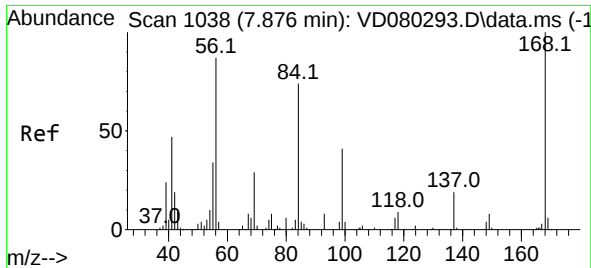
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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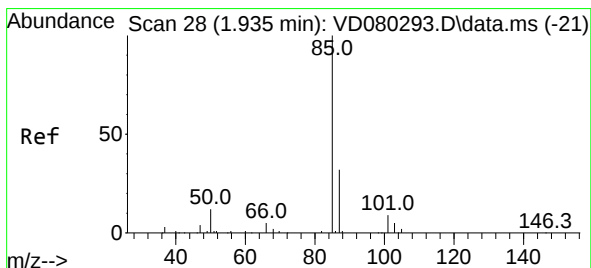
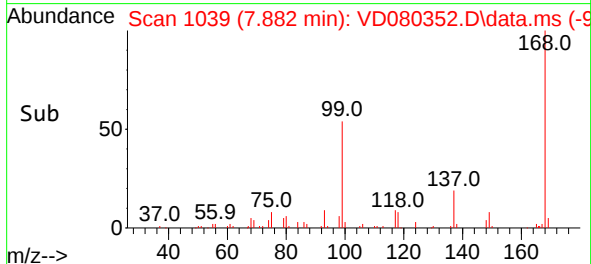
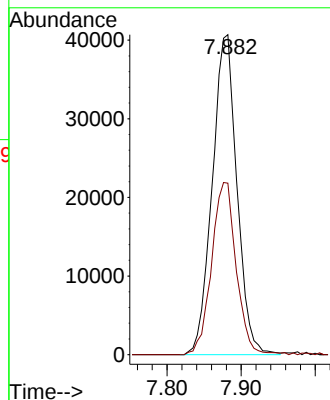
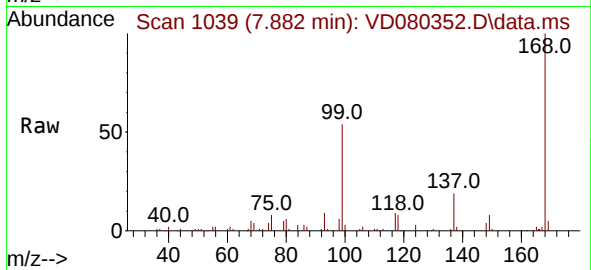




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.882 min Scan# 10
Delta R.T. 0.007 min
Lab File: VD080352.D
Acq: 15 May 2025 16:51

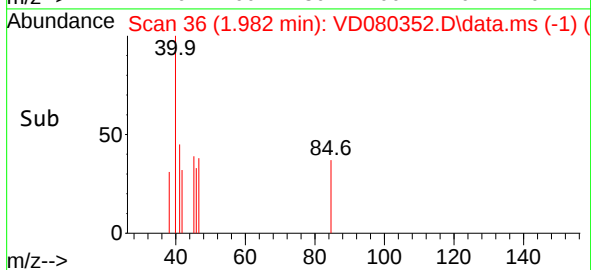
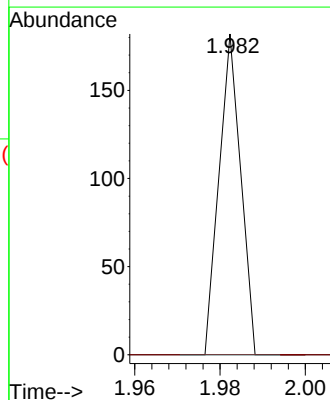
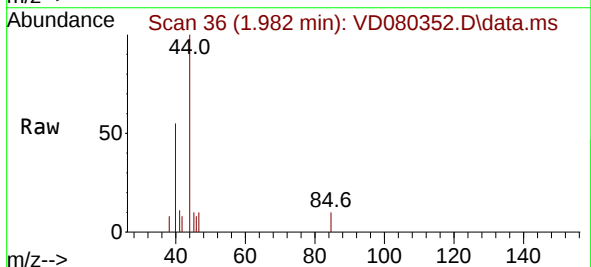
Instrument :
MSVOA_D
ClientSampleId :
L3-WC-6-VOC

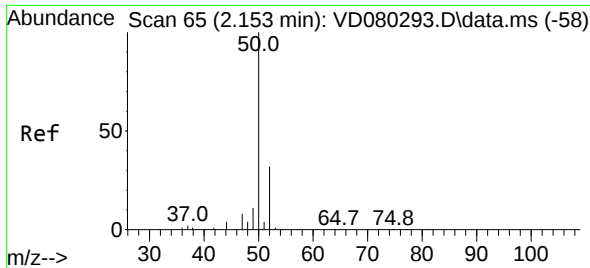
Tgt Ion:168 Resp: 94092
Ion Ratio Lower Upper
168 100
99 53.6 46.0 69.0



#2
Dichlorodifluoromethane
Concen: Below Cal
RT: 1.982 min Scan# 36
Delta R.T. 0.048 min
Lab File: VD080352.D
Acq: 15 May 2025 16:51

Tgt Ion: 85 Resp: 64
Ion Ratio Lower Upper
85 100
87 0.0 16.1 48.2#

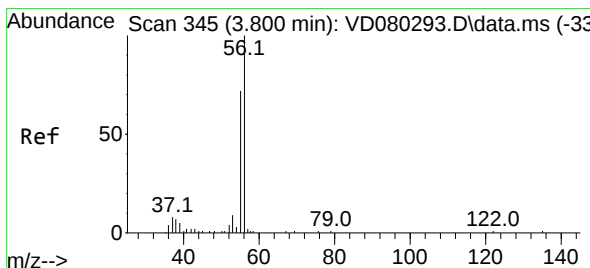
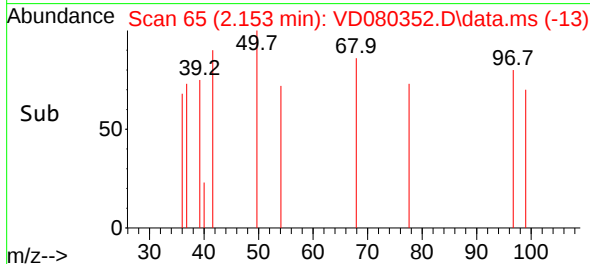
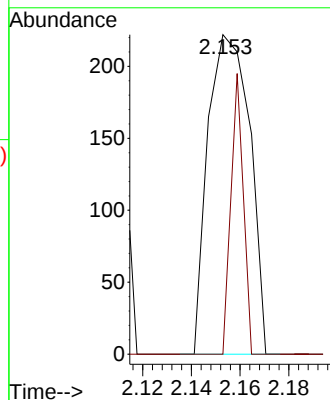
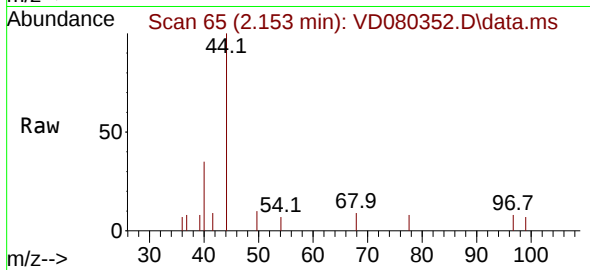




#3
Chloromethane
Concen: Below Cal
RT: 2.153 min Scan# 61
Delta R.T. 0.007 min
Lab File: VD080352.D
Acq: 15 May 2025 16:51

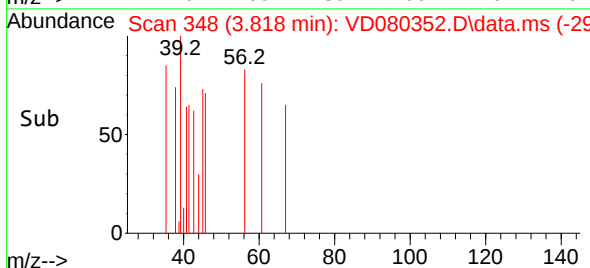
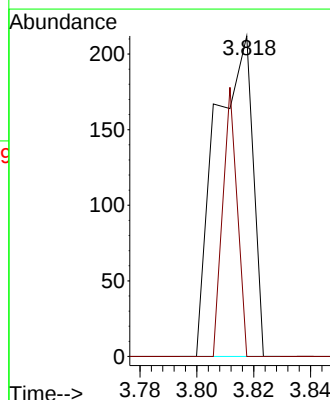
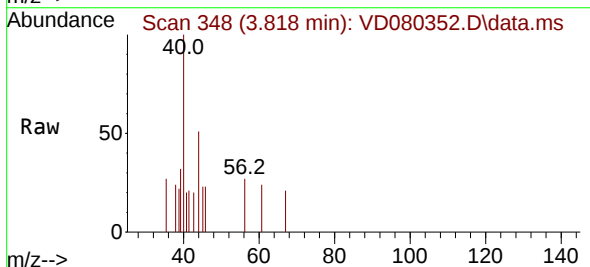
Instrument :
MSVOA_D
ClientSampleId :
L3-WC-6-VOC

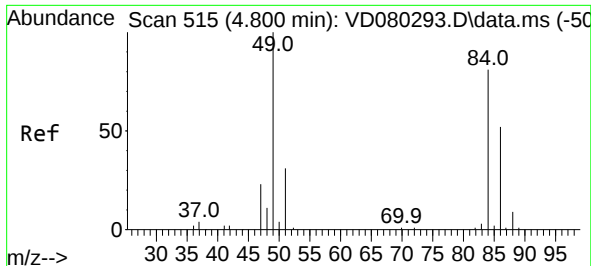
Tgt Ion: 50 Resp: 265
Ion Ratio Lower Upper
50 100
52 0.0 28.8 43.2#



#13
Acrolein
Concen: 1.478 ug/l
RT: 3.818 min Scan# 348
Delta R.T. 0.025 min
Lab File: VD080352.D
Acq: 15 May 2025 16:51

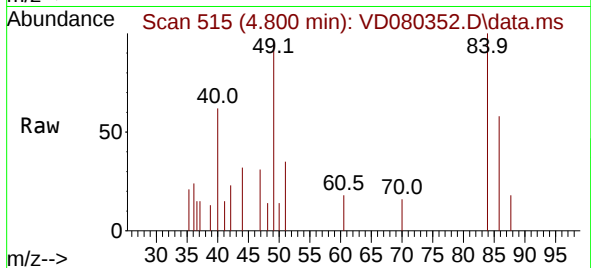
Tgt Ion: 56 Resp: 192
Ion Ratio Lower Upper
56 100
55 32.8 58.2 87.2#



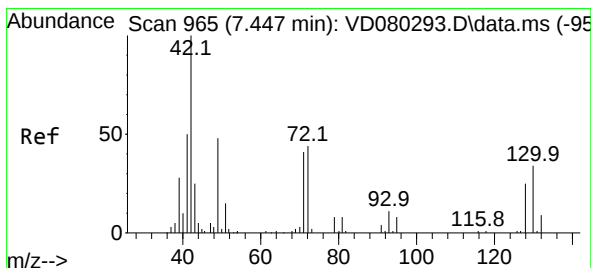
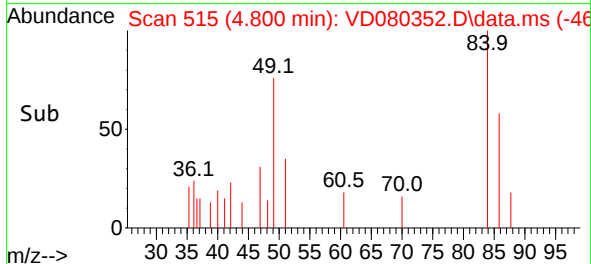
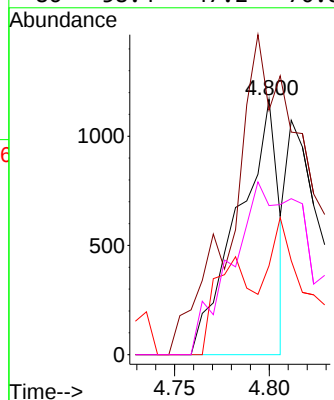


#20
Methylene Chloride
Concen: Below Cal
RT: 4.800 min Scan# 515
Delta R.T. -0.005 min
Lab File: VD080352.D
Acq: 15 May 2025 16:51

Instrument :
MSVOA_D
ClientSampleId :
L3-WC-6-VOC

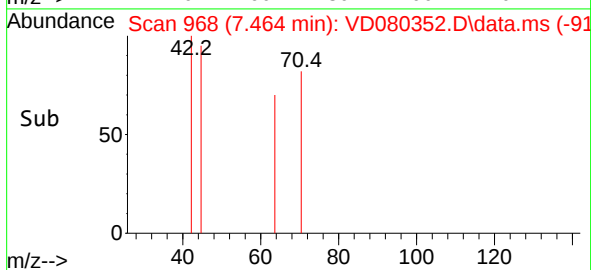
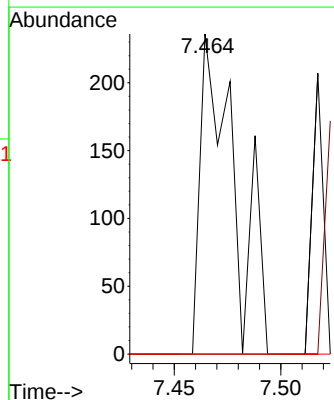
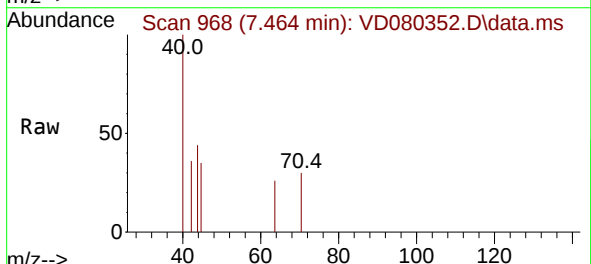


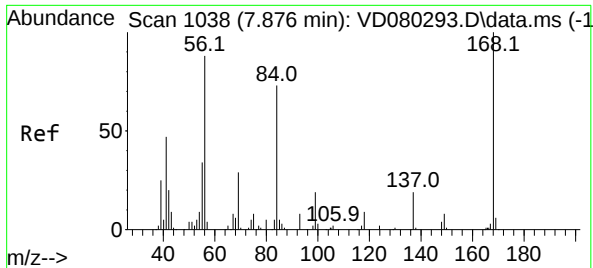
Tgt Ion: 84	Resp: 1728
Ion Ratio	Lower Upper
84 100	
49 80.4	86.5 129.7#
51 34.8	26.9 40.3
86 58.4	47.2 70.8



#29
Tetrahydrofuran
Concen: 1.214 ug/l
RT: 7.464 min Scan# 968
Delta R.T. 0.018 min
Lab File: VD080352.D
Acq: 15 May 2025 16:51

Tgt Ion: 42	Resp: 265
Ion Ratio	Lower Upper
42 100	
72 0.0	36.7 55.1#
71 0.0	34.4 51.6#

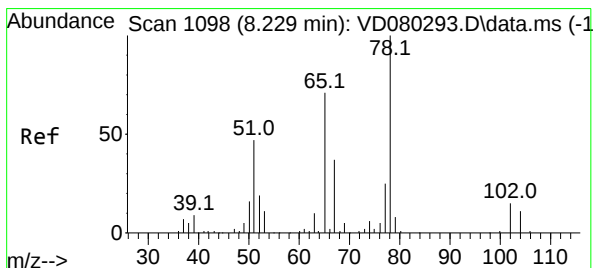
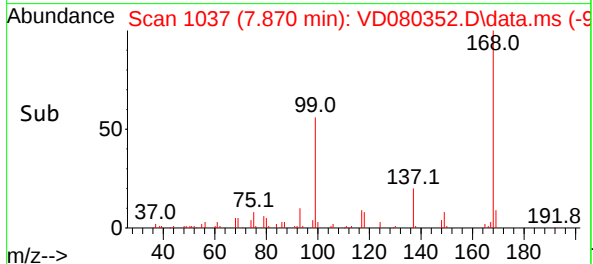
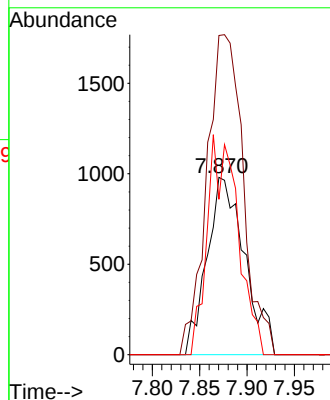
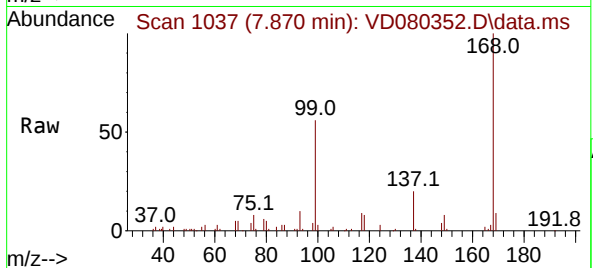




#31
Cyclohexane
Concen: 1.371 ug/l
RT: 7.870 min Scan# 1037
Delta R.T. -0.011 min
Lab File: VD080352.D
Acq: 15 May 2025 16:51

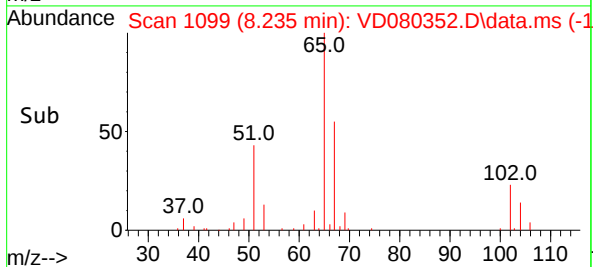
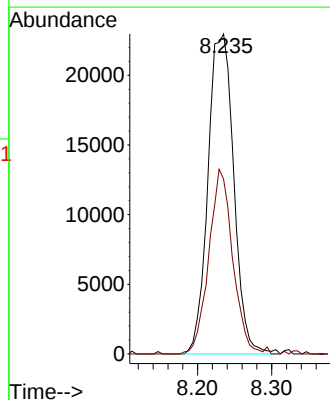
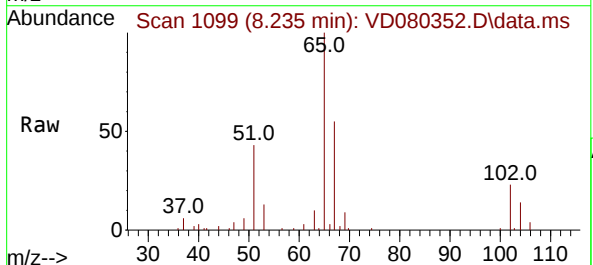
Instrument :
MSVOA_D
ClientSampleId :
L3-WC-6-VOC

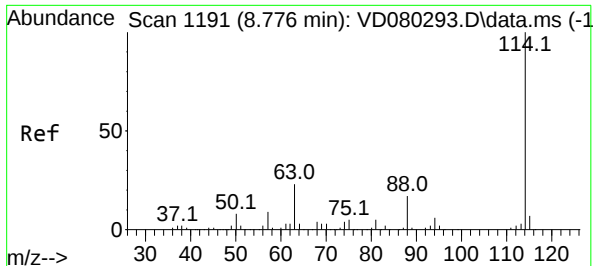
Tgt Ion: 56 Resp: 2711
Ion Ratio Lower Upper
56 100
69 180.1 27.3 40.9#
84 87.7 70.2 105.4



#33
1,2-Dichloroethane-d4
Concen: 45.668 ug/l
RT: 8.235 min Scan# 1099
Delta R.T. 0.007 min
Lab File: VD080352.D
Acq: 15 May 2025 16:51

Tgt Ion: 65 Resp: 55567
Ion Ratio Lower Upper
65 100
67 53.7 0.0 109.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.776 min Scan# 1191

Delta R.T. 0.001 min

Lab File: VD080352.D

Acq: 15 May 2025 16:51

Instrument :

MSVOA_D

ClientSampleId :

L3-WC-6-VOC

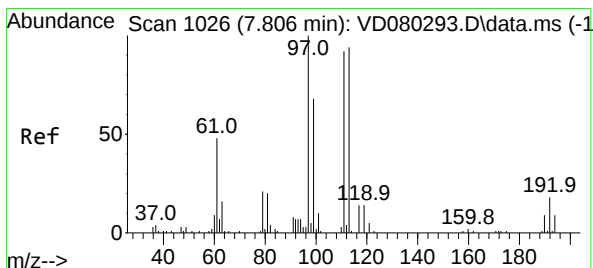
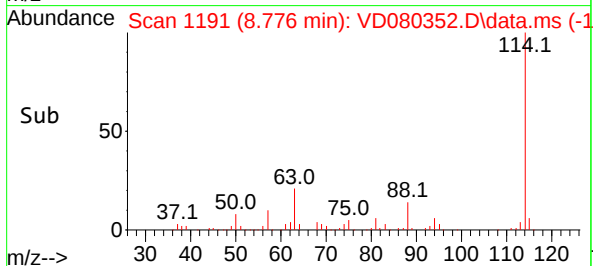
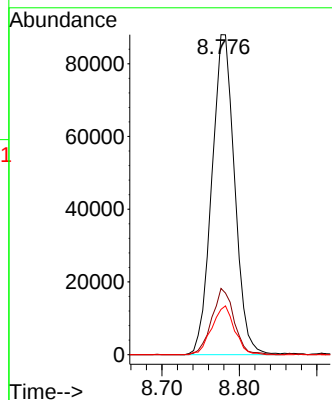
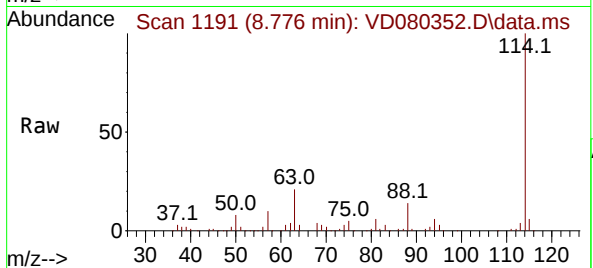
Tgt Ion:114 Resp: 179898

Ion Ratio Lower Upper

114 100

63 20.7 0.0 38.8

88 14.1 0.0 30.6



#35

Dibromofluoromethane

Concen: 53.179 ug/l

RT: 7.806 min Scan# 1026

Delta R.T. 0.001 min

Lab File: VD080352.D

Acq: 15 May 2025 16:51

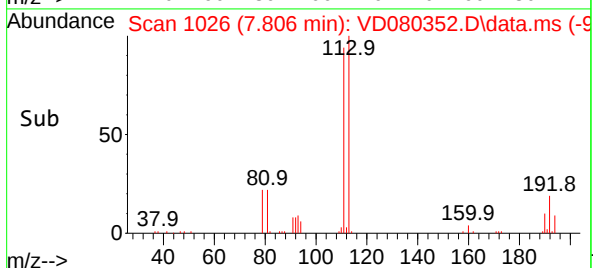
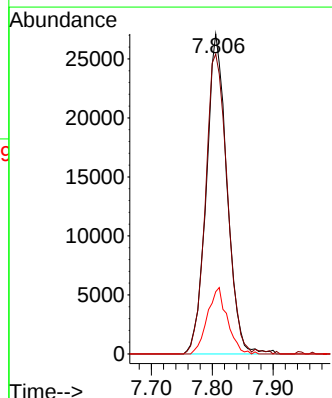
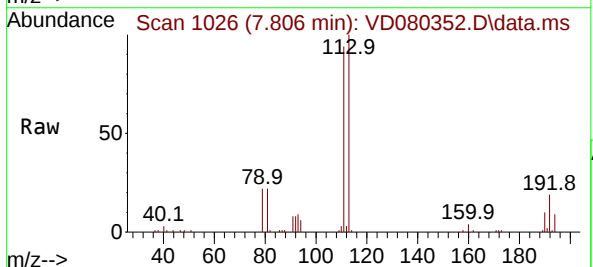
Tgt Ion:113 Resp: 64120

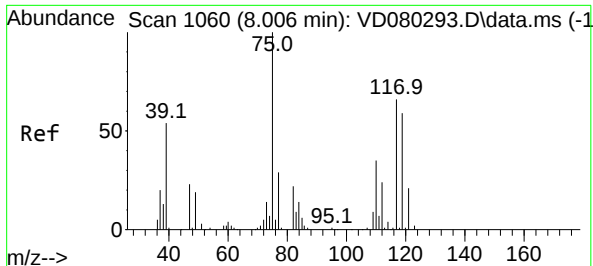
Ion Ratio Lower Upper

113 100

111 98.8 82.5 123.7

192 20.0 16.6 25.0





#36

1,1-Dichloropropene

Concen: 4.647 ug/l

RT: 7.876 min Scan# 1038

Delta R.T. -0.129 min

Lab File: VD080352.D

Acq: 15 May 2025 16:51

Instrument :

MSVOA_D

ClientSampleId :

L3-WC-6-VOC

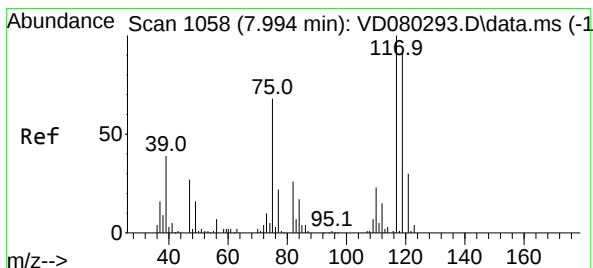
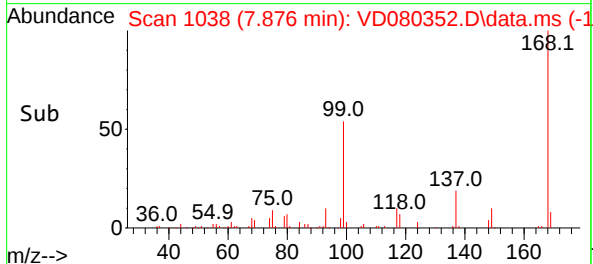
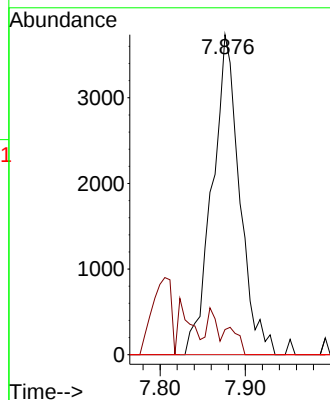
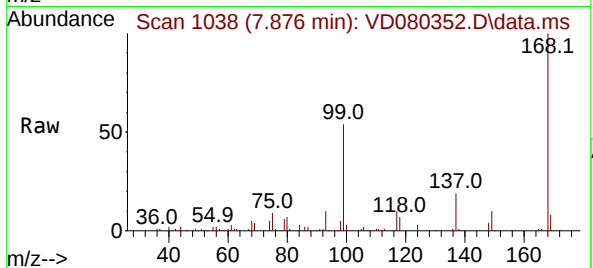
Tgt Ion: 75 Resp: 8374

Ion Ratio Lower Upper

75 100

110 3.3 18.4 55.0#

77 0.0 25.6 38.4#



#38

Carbon Tetrachloride

Concen: 4.946 ug/l

RT: 7.876 min Scan# 1038

Delta R.T. -0.111 min

Lab File: VD080352.D

Acq: 15 May 2025 16:51

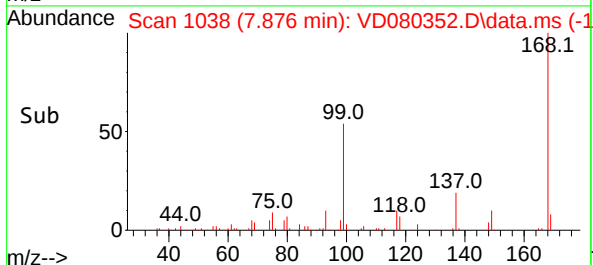
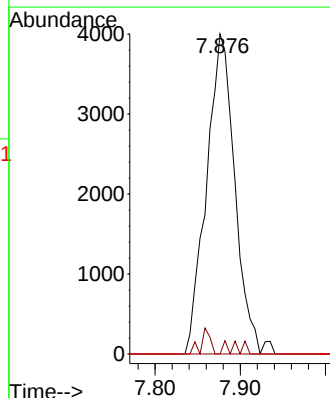
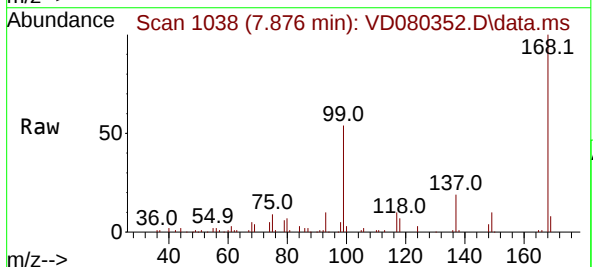
Tgt Ion: 117 Resp: 9295

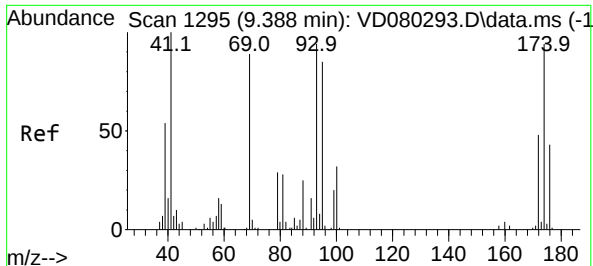
Ion Ratio Lower Upper

117 100

119 0.0 73.4 110.0#

121 0.0 24.5 36.7#





#49

1,4-Dioxane

Concen: 6.188 ug/l

RT: 9.382 min Scan# 11

Delta R.T. -0.005 min

Lab File: VD080352.D

Acq: 15 May 2025 16:51

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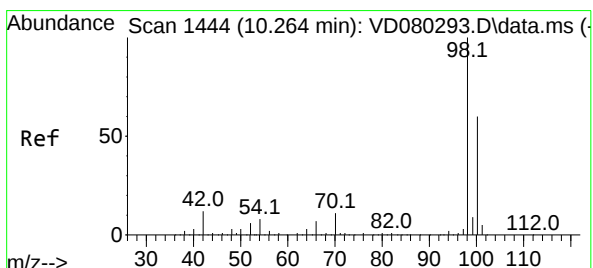
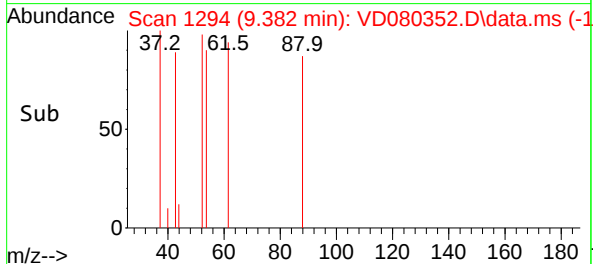
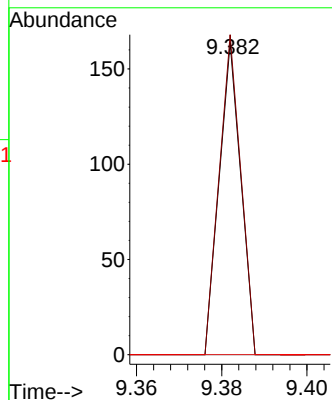
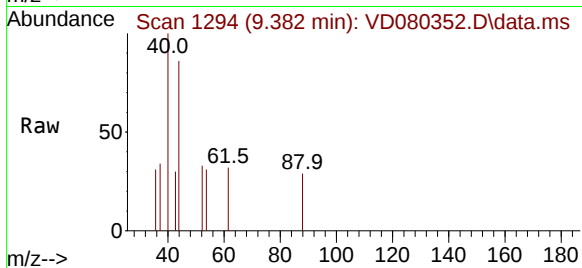
Tgt Ion: 88 Resp: 58

Ion Ratio Lower Upper

88 100

43 101.7 29.1 43.7#

58 0.0 59.9 89.9#



#50

Toluene-d8

Concen: 50.450 ug/l

RT: 10.270 min Scan# 1445

Delta R.T. 0.001 min

Lab File: VD080352.D

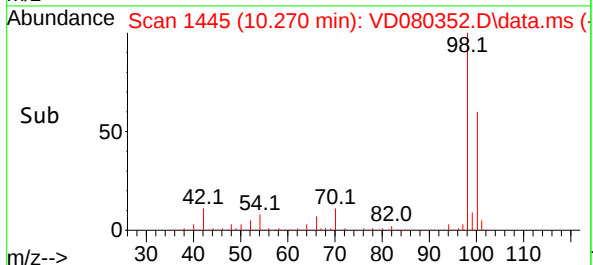
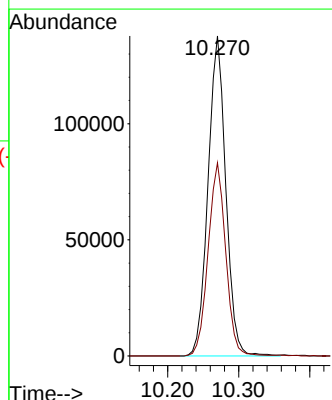
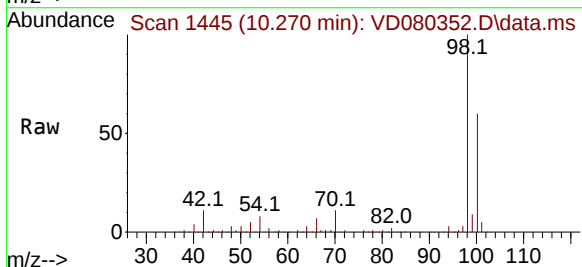
Acq: 15 May 2025 16:51

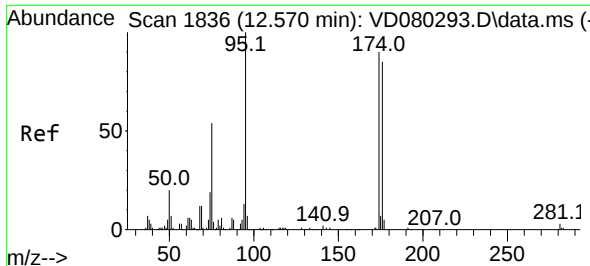
Tgt Ion: 98 Resp: 239676

Ion Ratio Lower Upper

98 100

100 59.9 50.2 75.4

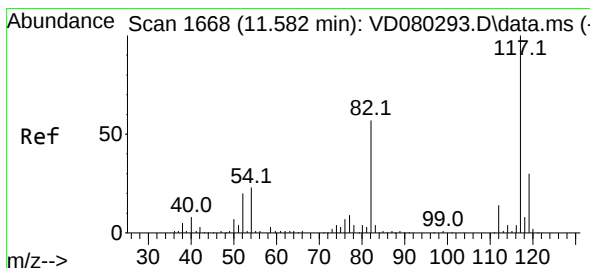
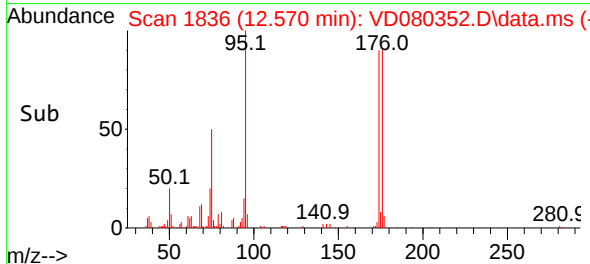
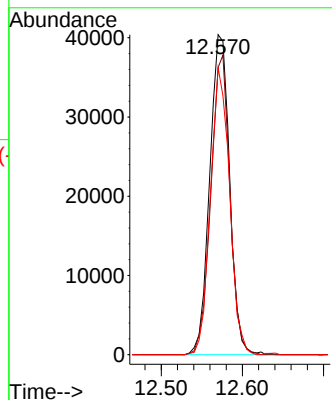
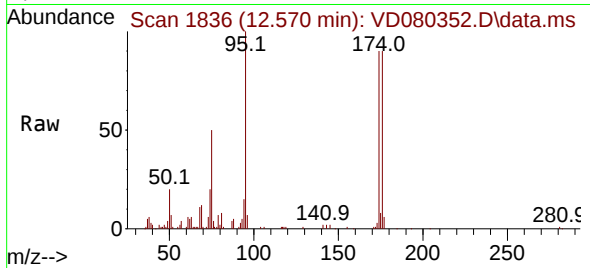




#62
4-Bromofluorobenzene
Concen: 45.101 ug/l
RT: 12.570 min Scan# 1836
Delta R.T. 0.001 min
Lab File: VD080352.D
Acq: 15 May 2025 16:51

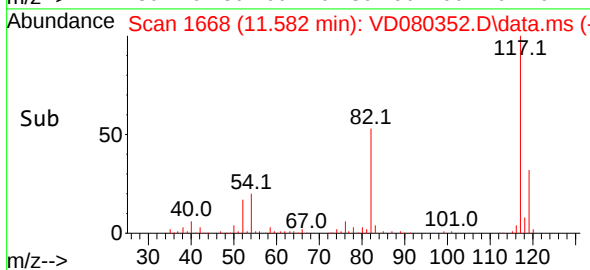
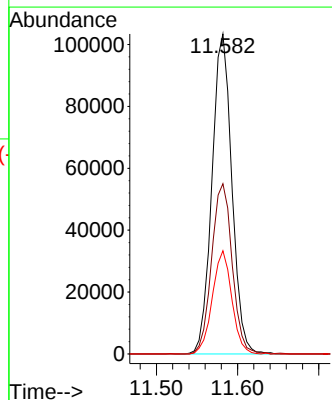
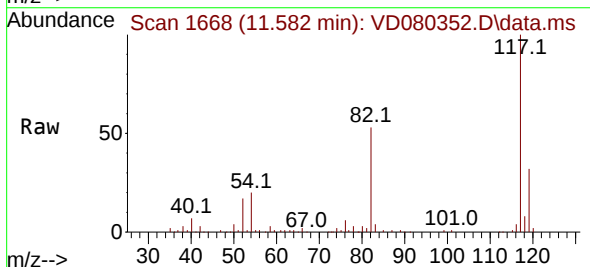
Instrument :
MSVOA_D
ClientSampleId :
L3-WC-6-VOC

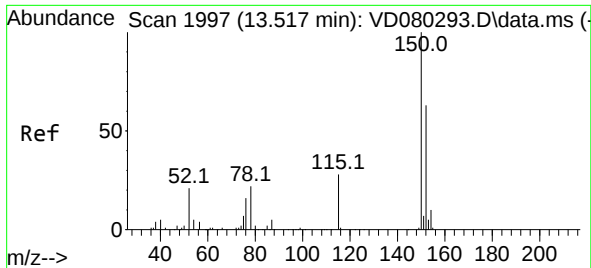
Tgt Ion: 95 Resp: 68772
Ion Ratio Lower Upper
95 100
174 89.4 0.0 173.4
176 86.2 0.0 166.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.582 min Scan# 1668
Delta R.T. 0.001 min
Lab File: VD080352.D
Acq: 15 May 2025 16:51

Tgt Ion: 117 Resp: 176079
Ion Ratio Lower Upper
117 100
82 53.2 45.8 68.6
119 32.2 26.2 39.2

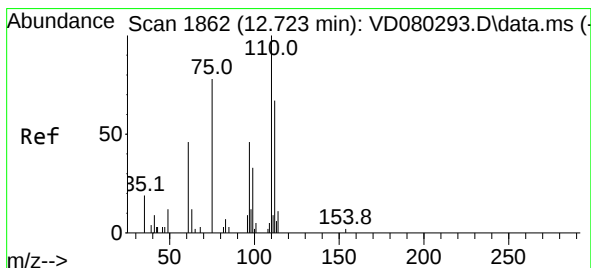
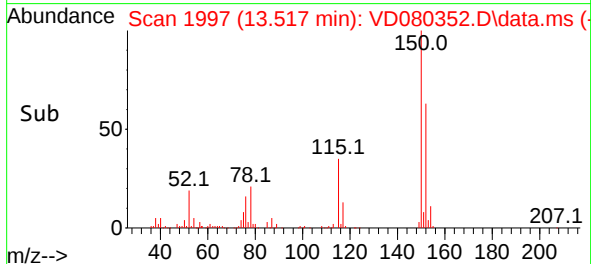
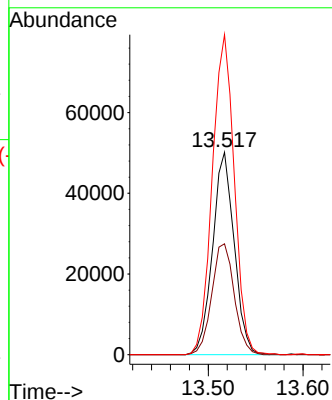
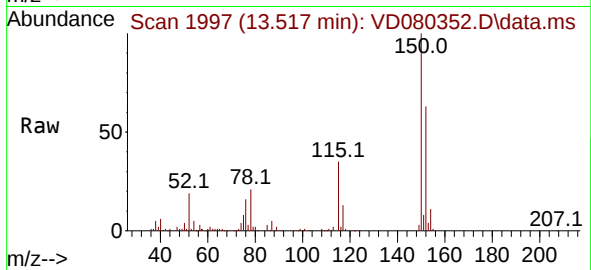




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.517 min Scan# 1997
 Delta R.T. 0.001 min
 Lab File: VD080352.D
 Acq: 15 May 2025 16:51

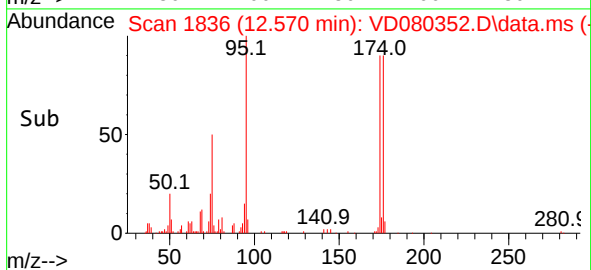
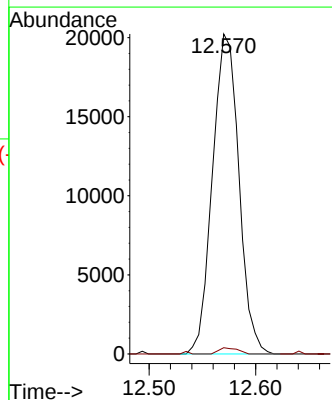
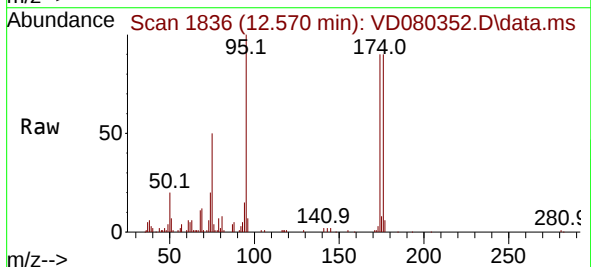
Instrument :
 MSVOA_D
 ClientSampleId :
 L3-WC-6-VOC

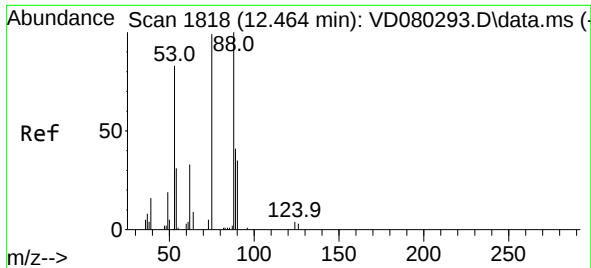
Tgt Ion:152 Resp: 79583
 Ion Ratio Lower Upper
 152 100
 115 57.2 28.9 86.8
 150 160.9 0.0 354.8



#76
 1,2,3-Trichloropropane
 Concen: 45.352 ug/l
 RT: 12.570 min Scan# 1836
 Delta R.T. -0.152 min
 Lab File: VD080352.D
 Acq: 15 May 2025 16:51

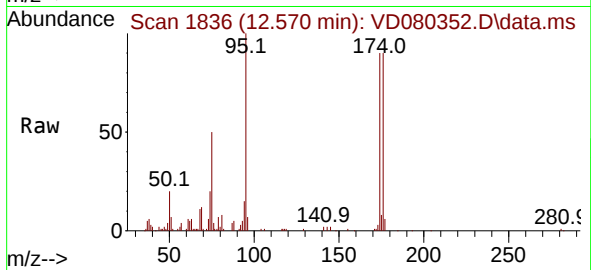
Tgt Ion: 75 Resp: 34834
 Ion Ratio Lower Upper
 75 100
 77 1.4 0.0 0.0#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 86.086 ug/l
 RT: 12.570 min Scan# 1836
 Delta R.T. 0.101 min
 Lab File: VD080352.D
 Acq: 15 May 2025 16:51

Instrument :
 MSVOA_D
 ClientSampleId :
 L3-WC-6-VOC



Tgt Ion:	75	Resp:	34834
Ion	Ratio	Lower	Upper
75	100		
53	0.6	68.7	103.1#
89	0.0	36.1	54.1#

