

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD051625\
 Data File : VD080367.D
 Acq On : 16 May 2025 13:21
 Operator : RP/MD
 Sample : Q2057-03
 Misc : 4.55G/5ml/MSVOA_D/SOIL/A
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 MH-L-VOC

Quant Time: May 17 01:19:03 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)

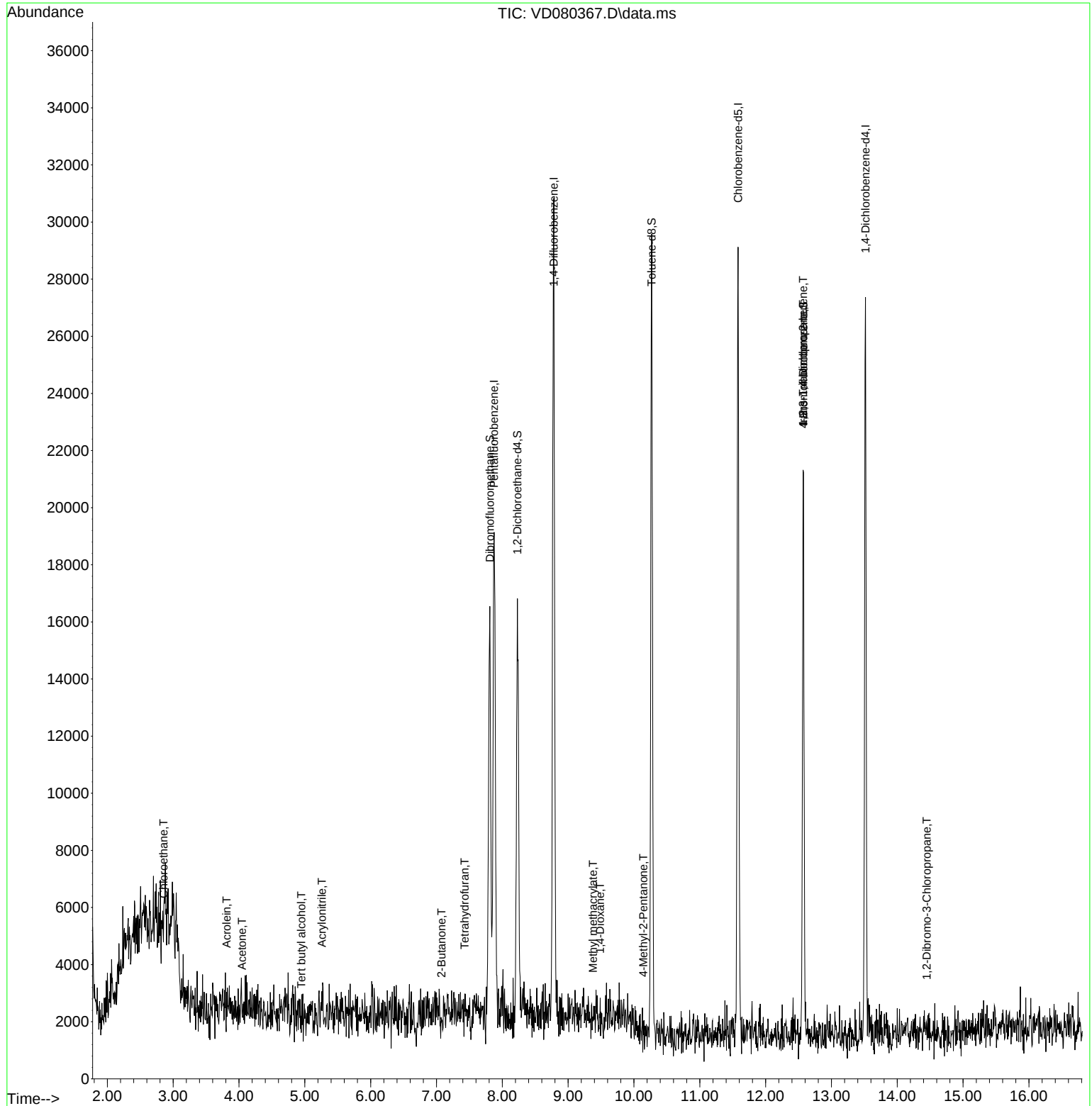
Internal Standards						
1) Pentafluorobenzene	7.876	168	12698	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.782	114	23626	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.582	117	15365	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.517	152	6942	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.229	65	11341	69.065	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	138.140%
35) Dibromofluoromethane	7.811	113	10025	63.309	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	126.620%
50) Toluene-d8	10.270	98	19587	31.393	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	62.780%
62) 4-Bromofluorobenzene	12.576	95	5821	29.067	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	58.140%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.847	85	66	Below Cal	#	43
3) Chloromethane	2.153	50	64	Below Cal	#	39
6) Chloroethane	2.853	64	378	1.620	ug/l #	40
11) Tert butyl alcohol	4.947	59	62	6.222	ug/l #	82
13) Acrolein	3.811	56	56	3.194	ug/l #	61
15) Acrylonitrile	5.258	53	55	1.464	ug/l #	4
16) Acetone	4.047	43	604	4.403	ug/l #	81
20) Methylene Chloride	4.806	84	151	Below Cal	#	11
25) 2-Butanone	7.076	43	118	2.612	ug/l #	47
29) Tetrahydrofuran	7.429	42	205	6.959	ug/l #	57
48) Methyl methacrylate	9.376	41	128	1.200	ug/l #	21
49) 1,4-Dioxane	9.488	88	55	44.678	ug/l #	1
51) 4-Methyl-2-Pentanone	10.141	43	261	2.257	ug/l #	34
76) 1,2,3-Trichloropropane	12.570	75	3060	45.672	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.570	75	3060	86.693	ug/l #	15
92) 1,2-Dibromo-3-Chloropr...	14.446	75	72	4.562	ug/l #	2

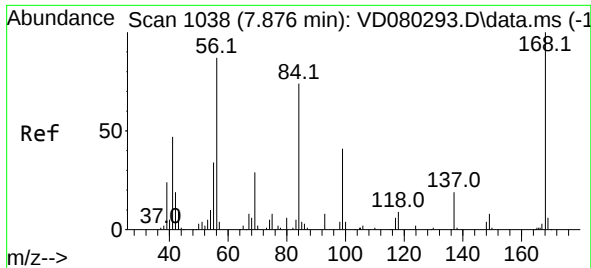
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: May 17 01:19:03 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

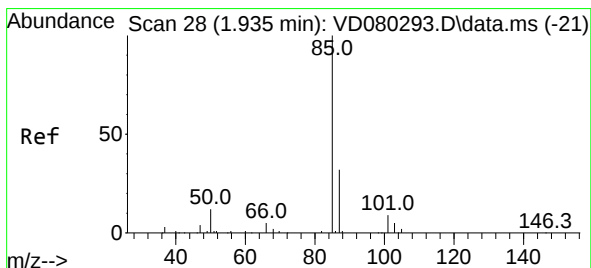
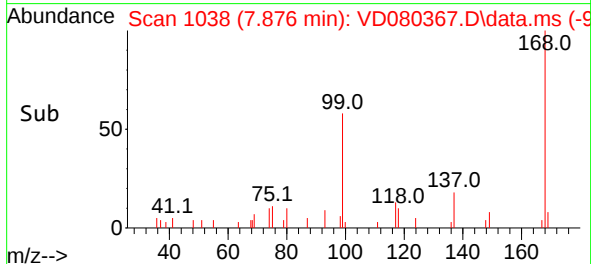
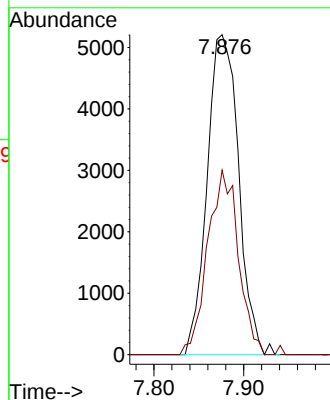
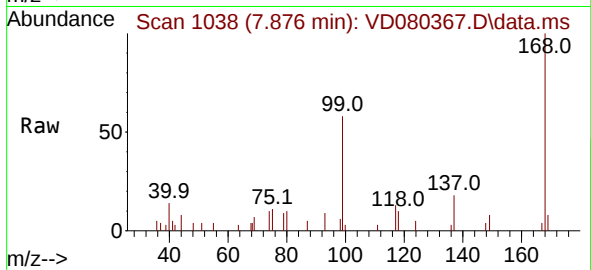




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.876 min Scan# 11
Delta R.T. 0.001 min
Lab File: VD080367.D
Acq: 16 May 2025 13:21

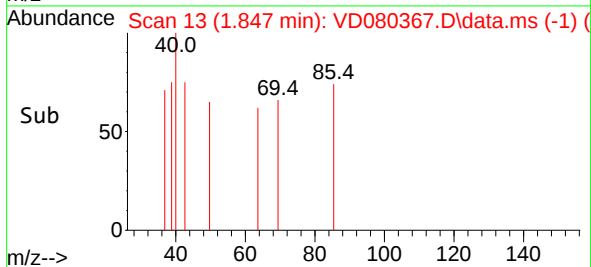
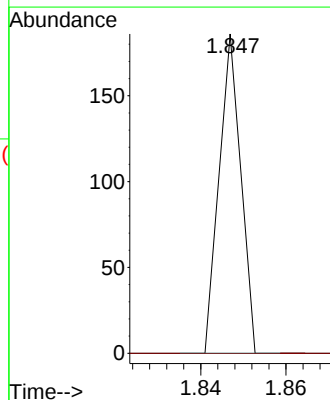
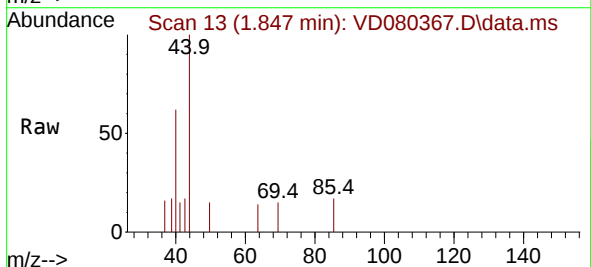
Instrument :
MSVOA_D
ClientSampleId :
MH-L-VOC

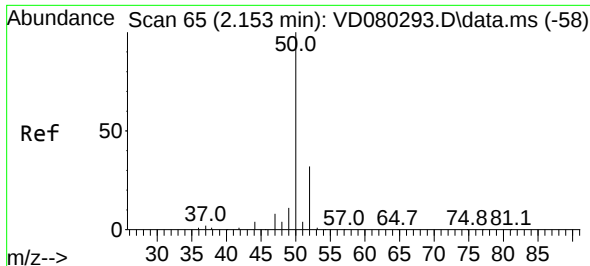
Tgt Ion:168 Resp: 12698
Ion Ratio Lower Upper
168 100
99 57.7 46.0 69.0



#2
Dichlorodifluoromethane
Concen: Below Cal
RT: 1.847 min Scan# 13
Delta R.T. -0.087 min
Lab File: VD080367.D
Acq: 16 May 2025 13:21

Tgt Ion: 85 Resp: 66
Ion Ratio Lower Upper
85 100
87 0.0 16.1 48.2#

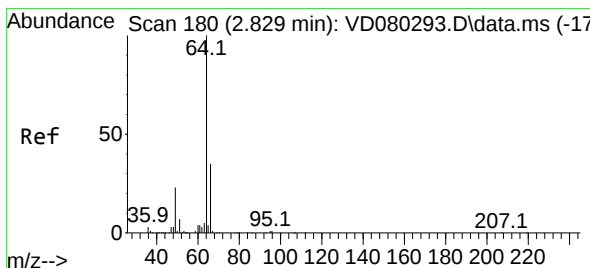
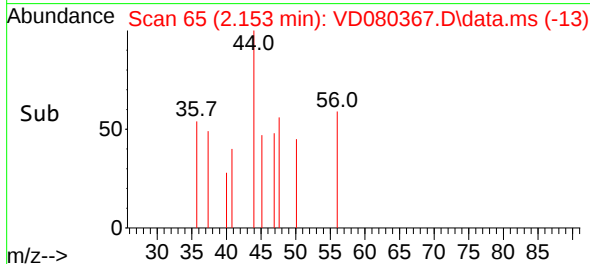
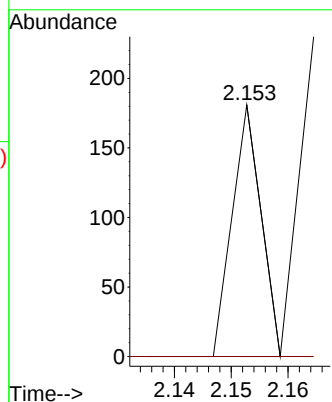
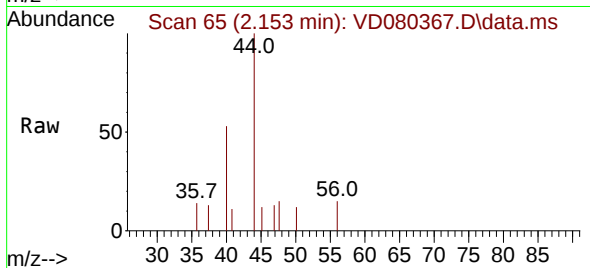




#3
Chloromethane
Concen: Below Cal
RT: 2.153 min Scan# 61
Delta R.T. 0.007 min
Lab File: VD080367.D
Acq: 16 May 2025 13:21

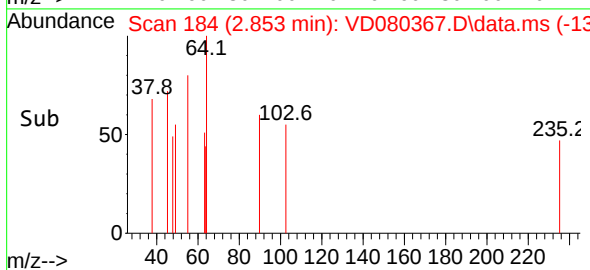
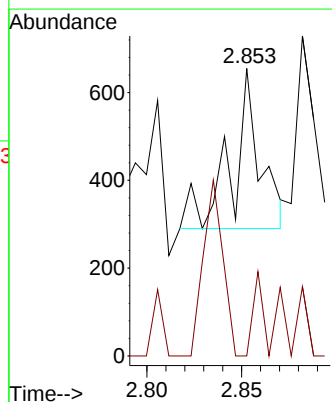
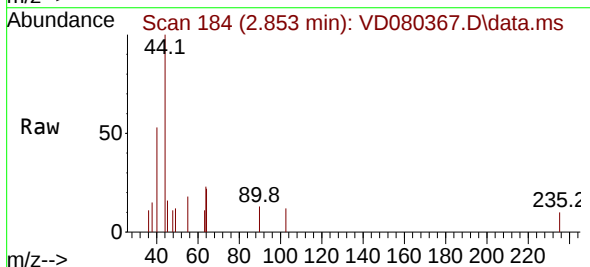
Instrument :
MSVOA_D
ClientSampleId :
MH-L-VOC

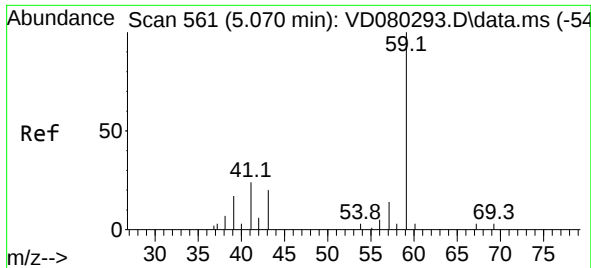
Tgt Ion: 50 Resp: 64
Ion Ratio Lower Upper
50 100
52 0.0 28.8 43.2#



#6
Chloroethane
Concen: 1.620 ug/l
RT: 2.853 min Scan# 184
Delta R.T. 0.019 min
Lab File: VD080367.D
Acq: 16 May 2025 13:21

Tgt Ion: 64 Resp: 378
Ion Ratio Lower Upper
64 100
66 0.0 27.6 41.4#

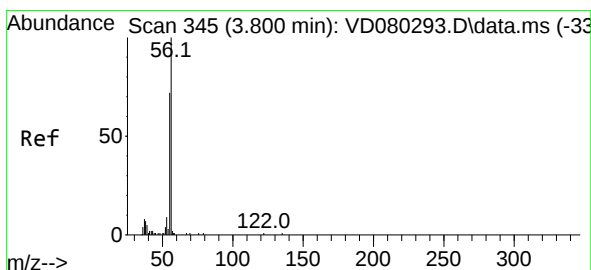
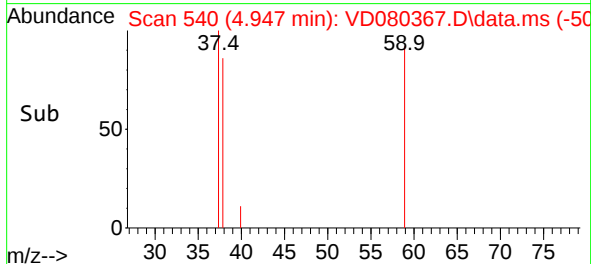
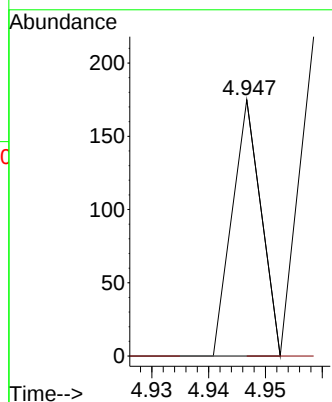
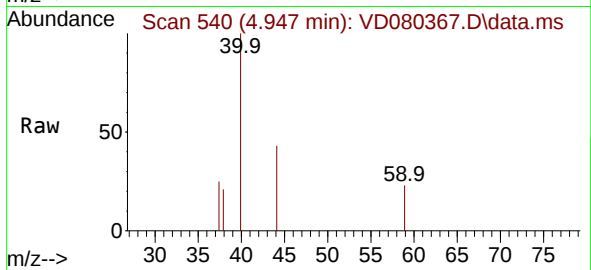




#11
Tert butyl alcohol
Concen: 6.222 ug/l
RT: 4.947 min Scan# 54
Delta R.T. -0.111 min
Lab File: VD080367.D
Acq: 16 May 2025 13:21

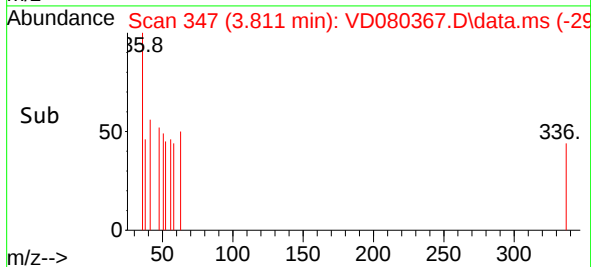
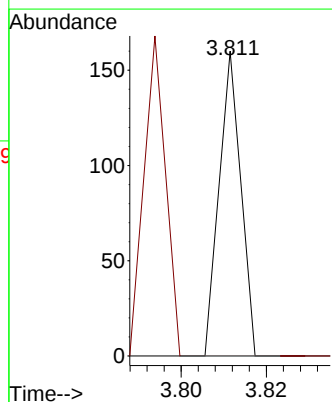
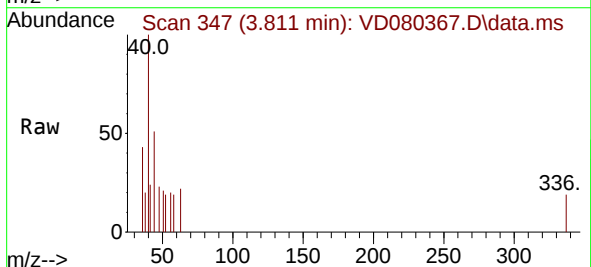
Instrument :
MSVOA_D
ClientSampleId :
MH-L-VOC

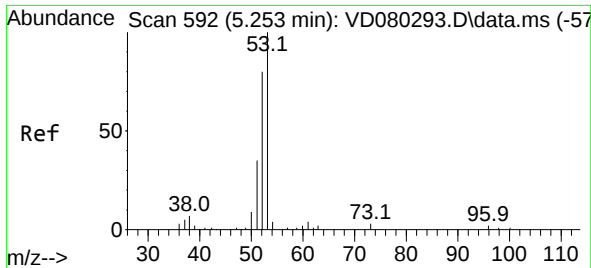
Tgt Ion: 59 Resp: 62
Ion Ratio Lower Upper
59 100
57 0.0 4.8 7.2#



#13
Acrolein
Concen: 3.194 ug/l
RT: 3.811 min Scan# 347
Delta R.T. 0.018 min
Lab File: VD080367.D
Acq: 16 May 2025 13:21

Tgt Ion: 56 Resp: 56
Ion Ratio Lower Upper
56 100
55 105.4 58.2 87.2#

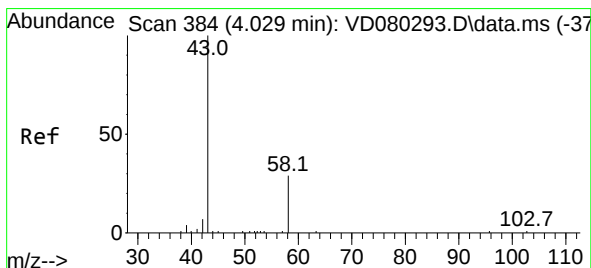
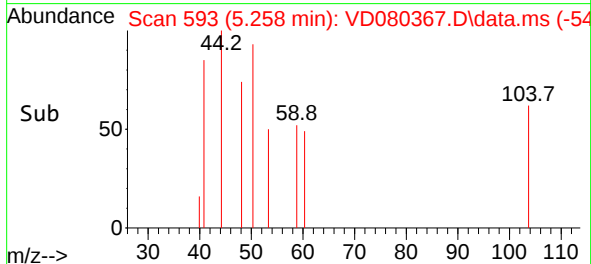
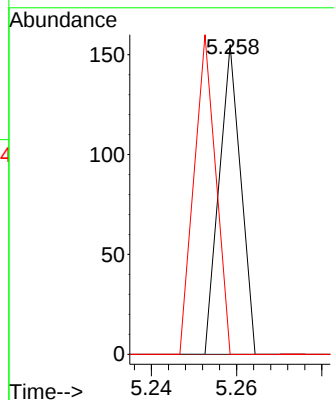
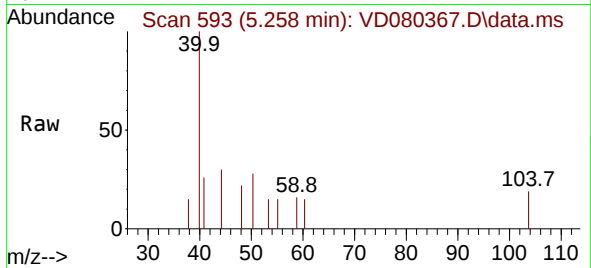




#15
Acrylonitrile
Concen: 1.464 ug/l
RT: 5.258 min Scan# 592
Delta R.T. 0.006 min
Lab File: VD080367.D
Acq: 16 May 2025 13:21

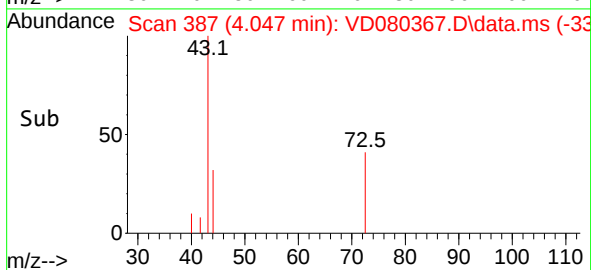
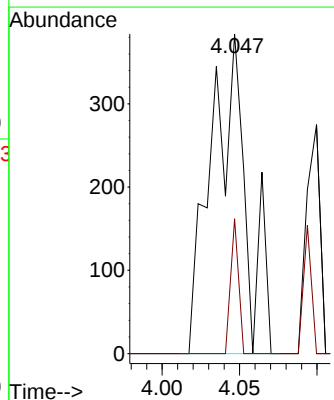
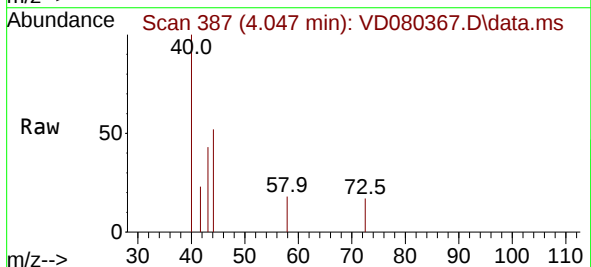
Instrument :
MSVOA_D
ClientSampleId :
MH-L-VOC

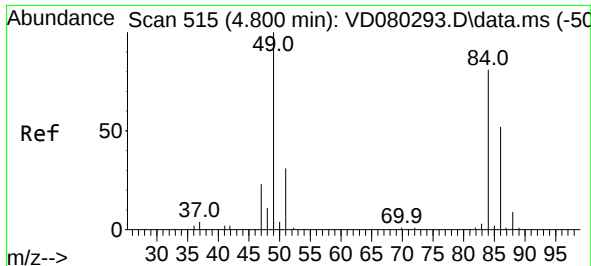
Tgt Ion: 53 Resp: 55
Ion Ratio Lower Upper
53 100
52 0.0 66.2 99.4#
51 101.8 30.3 45.5#



#16
Acetone
Concen: 4.403 ug/l
RT: 4.047 min Scan# 387
Delta R.T. 0.024 min
Lab File: VD080367.D
Acq: 16 May 2025 13:21

Tgt Ion: 43 Resp: 604
Ion Ratio Lower Upper
43 100
58 42.2 25.4 38.2#





#20

Methylene Chloride

Concen: Below Cal

RT: 4.806 min Scan# 515

Delta R.T. 0.001 min

Lab File: VD080367.D

Acq: 16 May 2025 13:21

Instrument :

MSVOA_D

ClientSampleId :

MH-L-VOC

Tgt Ion: 84 Resp: 151

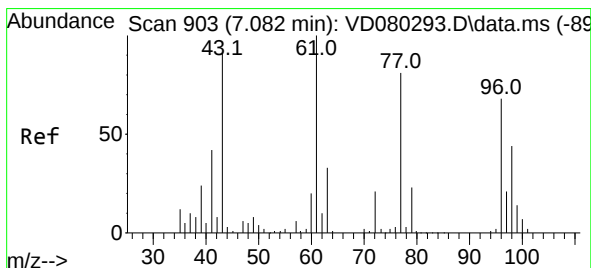
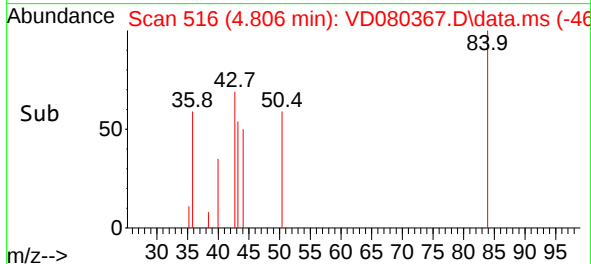
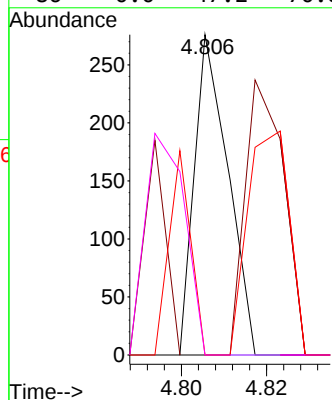
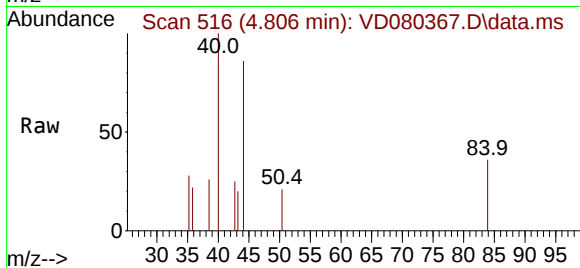
Ion Ratio Lower Upper

84 100

49 0.0 86.5 129.7#

51 0.0 26.9 40.3#

86 0.0 47.2 70.8#



#25

2-Butanone

Concen: 2.612 ug/l

RT: 7.076 min Scan# 902

Delta R.T. -0.011 min

Lab File: VD080367.D

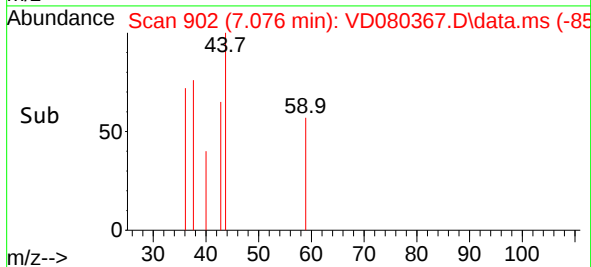
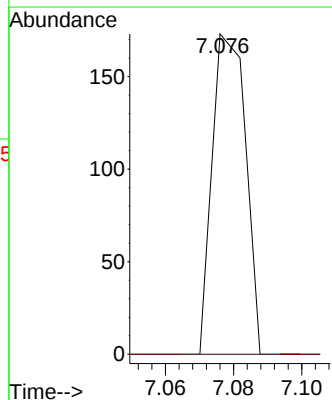
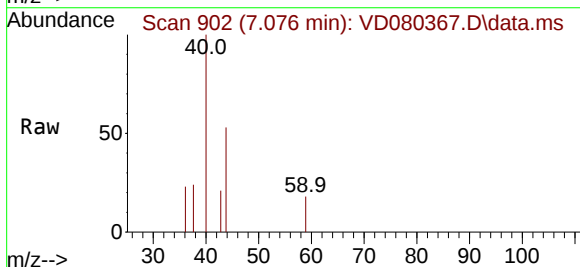
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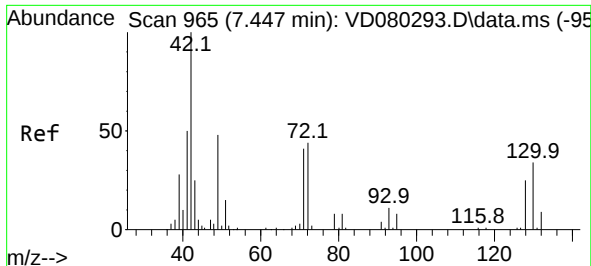
Tgt Ion: 43 Resp: 118

Ion Ratio Lower Upper

43 100

72 0.0 22.3 33.5#





#29

Tetrahydrofuran

Concen: 6.959 ug/l

RT: 7.429 min Scan# 962

Delta R.T. -0.017 min

Lab File: VD080367.D

Acq: 16 May 2025 13:21

Instrument :

MSVOA_D

ClientSampleId :

MH-L-VOC

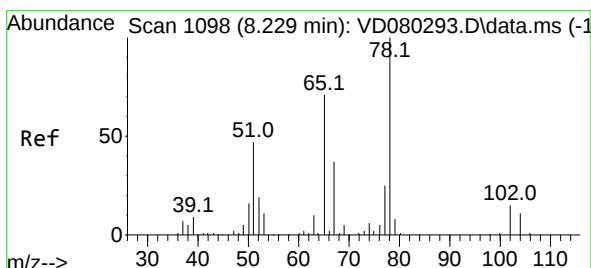
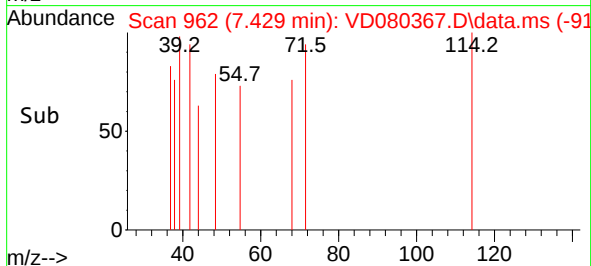
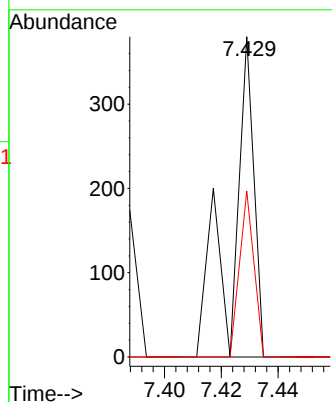
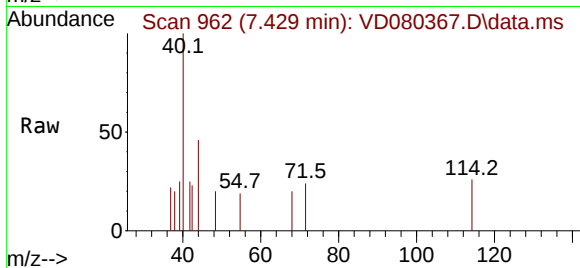
Tgt Ion: 42 Resp: 205

Ion Ratio Lower Upper

42 100

72 0.0 36.7 55.1#

71 33.7 34.4 51.6#



#33

1,2-Dichloroethane-d4

Concen: 69.065 ug/l

RT: 8.229 min Scan# 1098

Delta R.T. 0.001 min

Lab File: VD080367.D

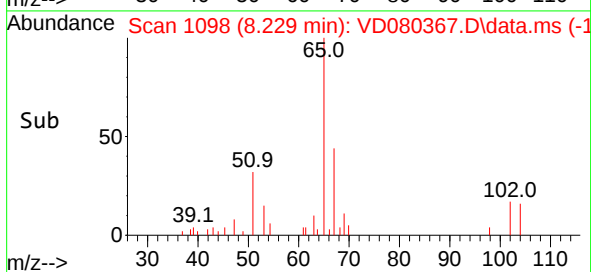
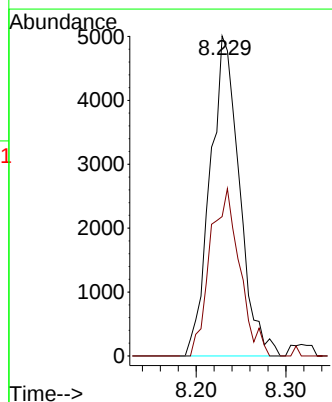
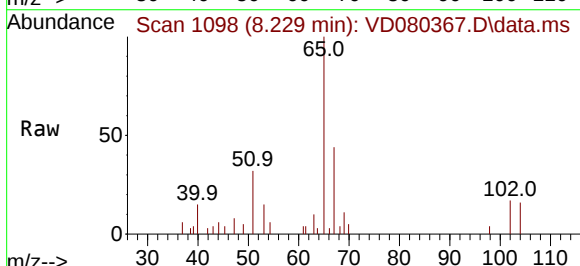
Acq: 16 May 2025 13:21

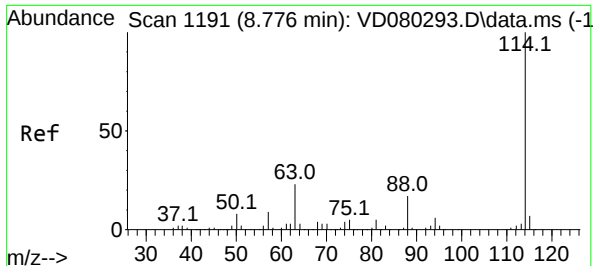
Tgt Ion: 65 Resp: 11341

Ion Ratio Lower Upper

65 100

67 52.8 0.0 109.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.782 min Scan# 1191

Delta R.T. 0.007 min

Lab File: VD080367.D

Acq: 16 May 2025 13:21

Instrument :

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MH-L-VOC

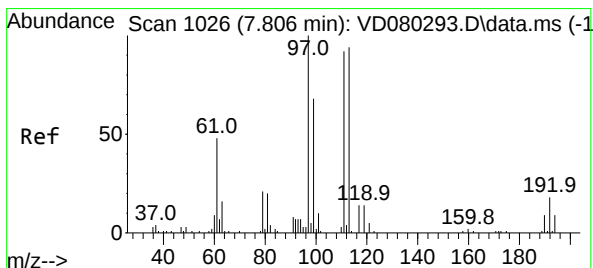
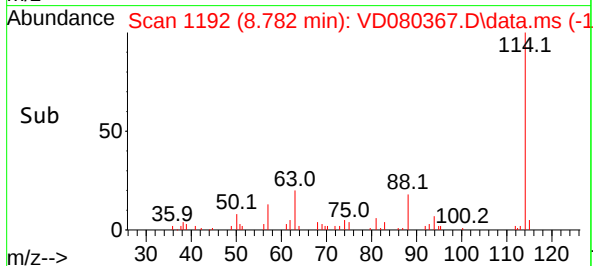
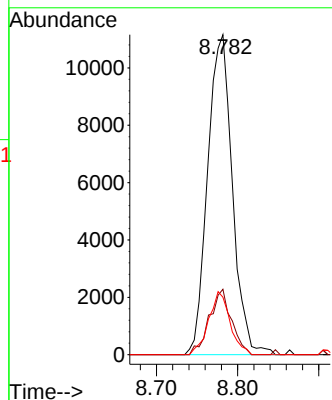
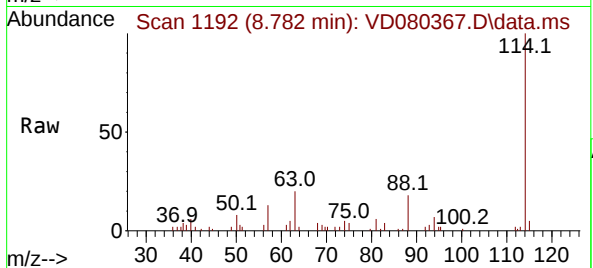
Tgt Ion:114 Resp: 23626

Ion Ratio Lower Upper

114 100

63 20.4 0.0 38.8

88 17.9 0.0 30.6



#35

Dibromofluoromethane

Concen: 63.309 ug/l

RT: 7.811 min Scan# 1027

Delta R.T. 0.006 min

Lab File: VD080367.D

Acq: 16 May 2025 13:21

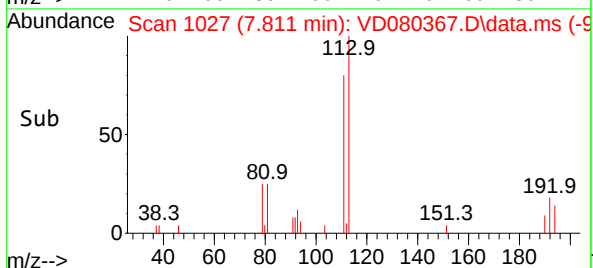
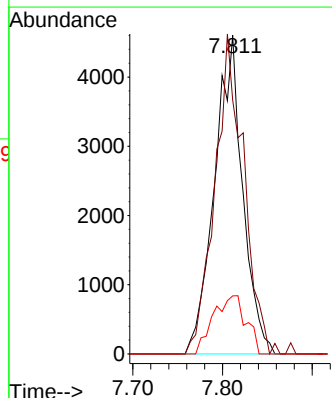
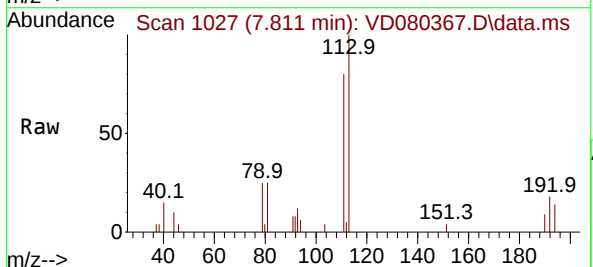
Tgt Ion:113 Resp: 10025

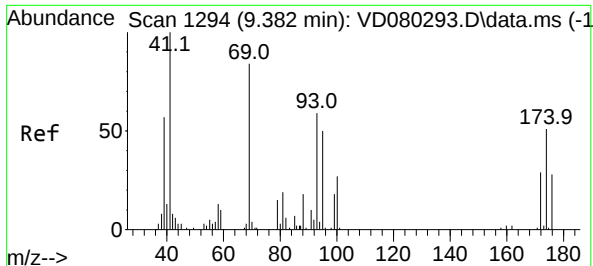
Ion Ratio Lower Upper

113 100

111 102.7 82.5 123.7

192 21.2 16.6 25.0





#48

Methyl methacrylate

Concen: 1.200 ug/l

RT: 9.376 min Scan# 1312

Delta R.T. -0.005 min

Lab File: VD080367.D

Acq: 16 May 2025 13:21

Instrument :

MSVOA_D

ClientSampleId :

MH-L-VOC

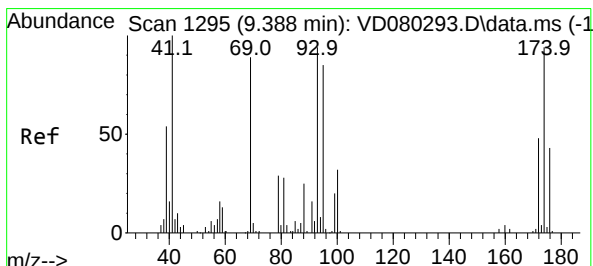
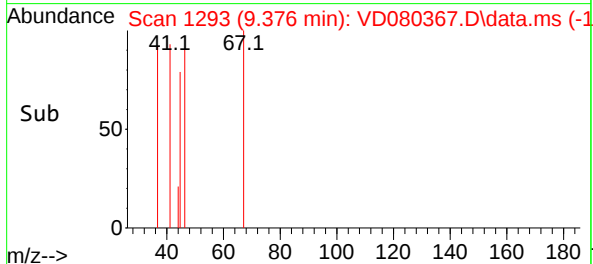
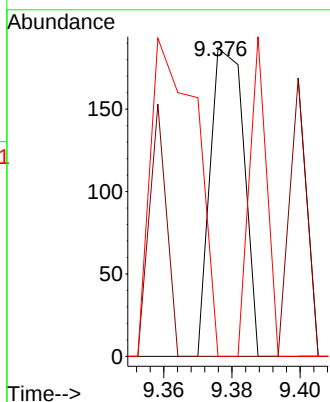
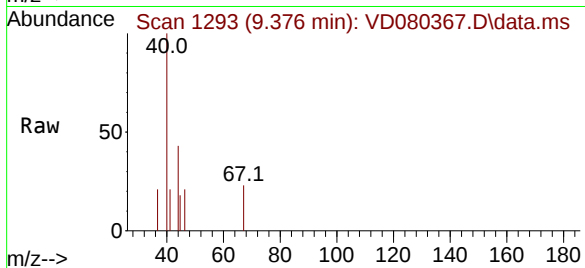
Tgt Ion: 41 Resp: 128

Ion Ratio Lower Upper

41 100

69 42.2 74.0 111.0#

39 140.6 41.9 62.9#



#49

1,4-Dioxane

Concen: 44.678 ug/l

RT: 9.488 min Scan# 1312

Delta R.T. 0.101 min

Lab File: VD080367.D

Acq: 16 May 2025 13:21

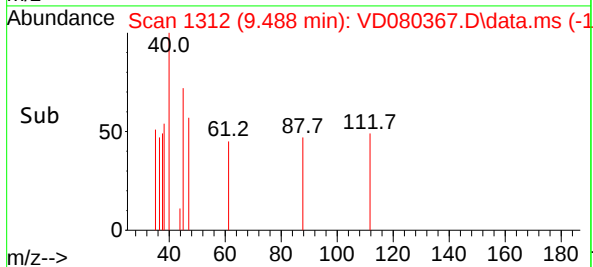
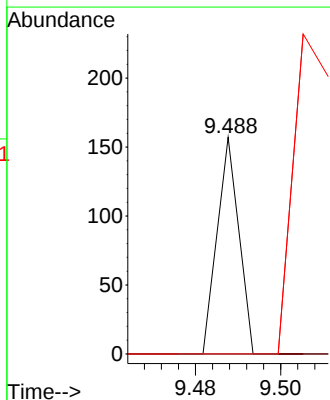
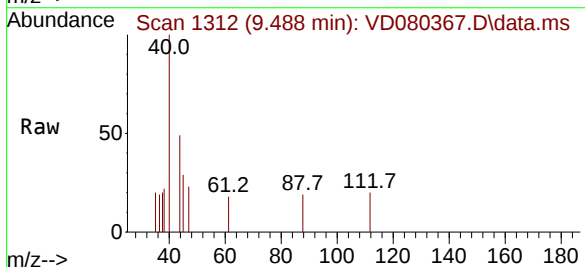
Tgt Ion: 88 Resp: 55

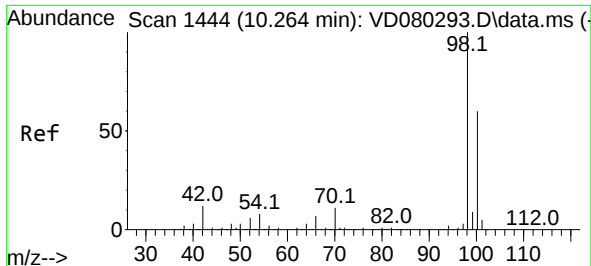
Ion Ratio Lower Upper

88 100

43 0.0 29.1 43.7#

58 278.2 59.9 89.9#

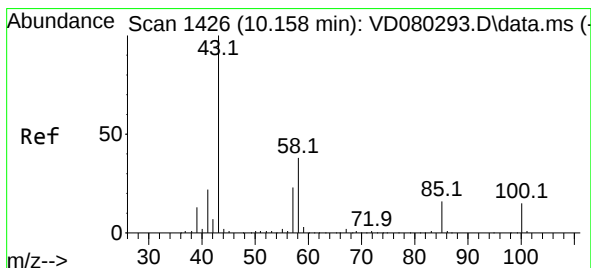
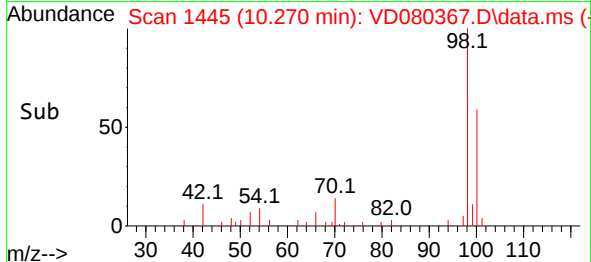
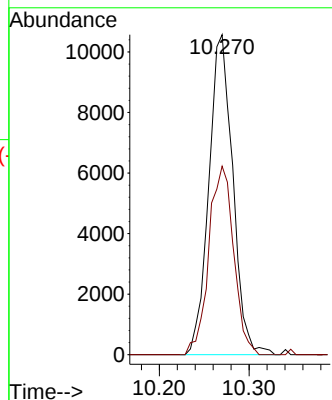
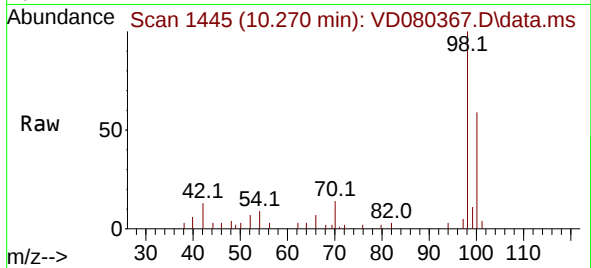




#50
Toluene-d8
Concen: 31.393 ug/l
RT: 10.270 min Scan# 1444
Delta R.T. 0.001 min
Lab File: VD080367.D
Acq: 16 May 2025 13:21

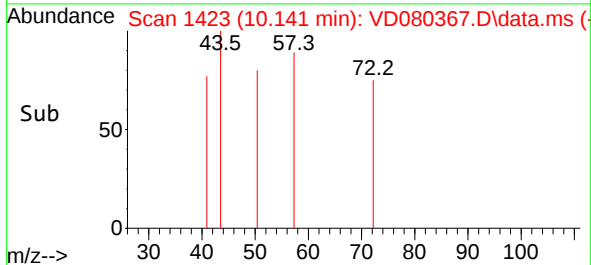
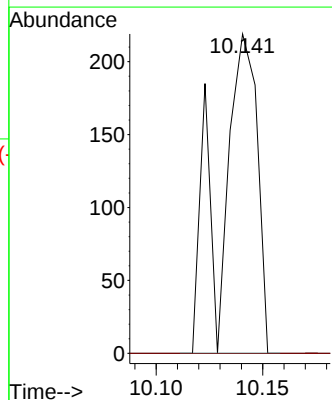
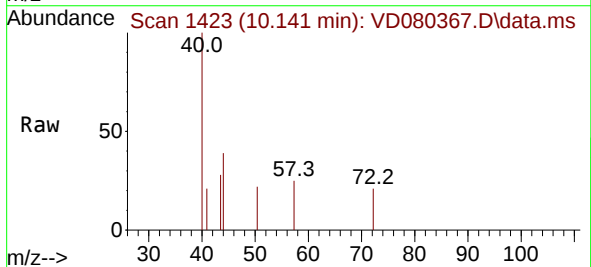
Instrument :
MSVOA_D
ClientSampleId :
MH-L-VOC

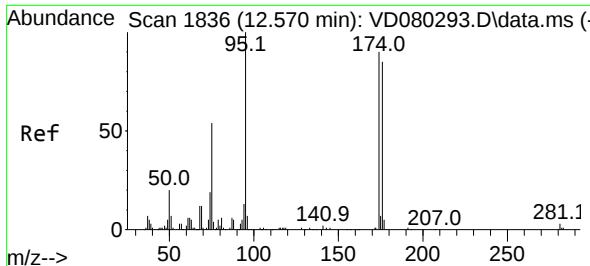
Tgt Ion: 98 Resp: 19587
Ion Ratio Lower Upper
98 100
100 61.0 50.2 75.4



#51
4-Methyl-2-Pentanone
Concen: 2.257 ug/l
RT: 10.141 min Scan# 1423
Delta R.T. -0.016 min
Lab File: VD080367.D
Acq: 16 May 2025 13:21

Tgt Ion: 43 Resp: 261
Ion Ratio Lower Upper
43 100
58 0.0 32.8 49.2#

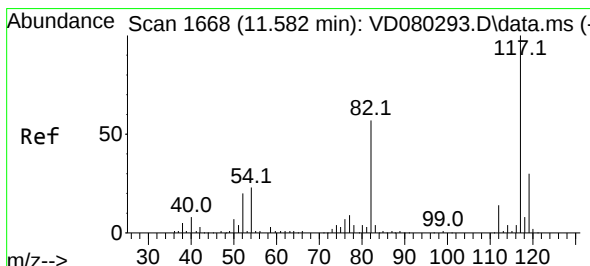
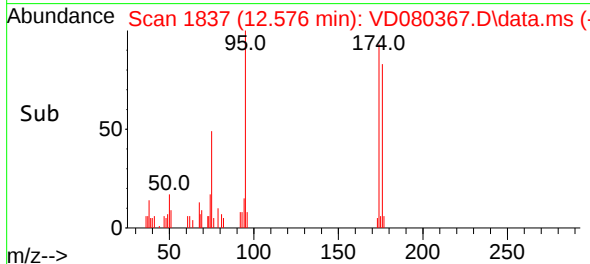
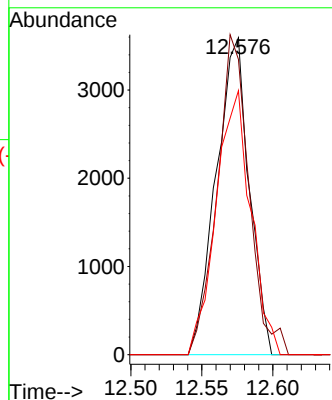
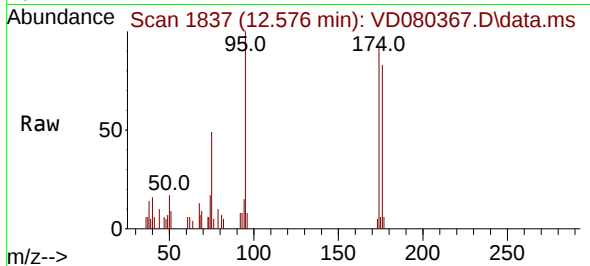




#62
4-Bromofluorobenzene
Concen: 29.067 ug/l
RT: 12.576 min Scan# 1837
Delta R.T. 0.007 min
Lab File: VD080367.D
Acq: 16 May 2025 13:21

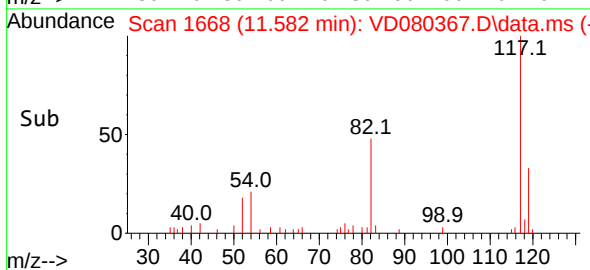
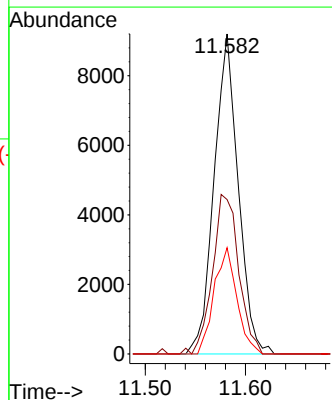
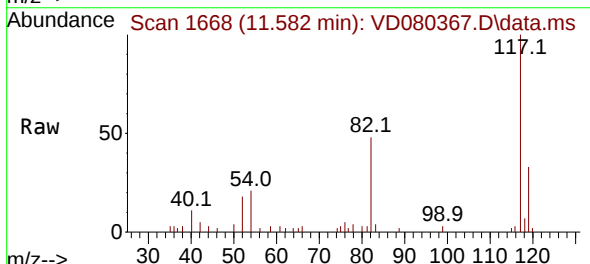
Instrument :
MSVOA_D
ClientSampleId :
MH-L-VOC

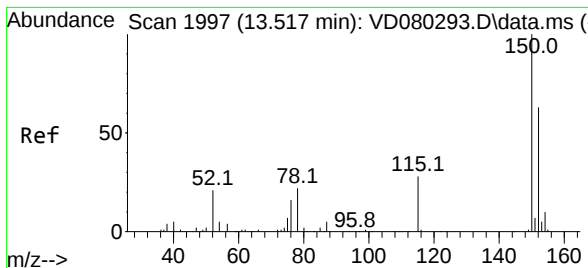
Tgt Ion: 95 Resp: 5821
Ion Ratio Lower Upper
95 100
174 97.2 0.0 173.4
176 87.7 0.0 166.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.582 min Scan# 1668
Delta R.T. 0.001 min
Lab File: VD080367.D
Acq: 16 May 2025 13:21

Tgt Ion: 117 Resp: 15365
Ion Ratio Lower Upper
117 100
82 48.2 45.8 68.6
119 33.2 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: VD080367.D

Acq: 16 May 2025 13:21

Instrument :

MSVOA_D

ClientSampleId :

MH-L-VOC

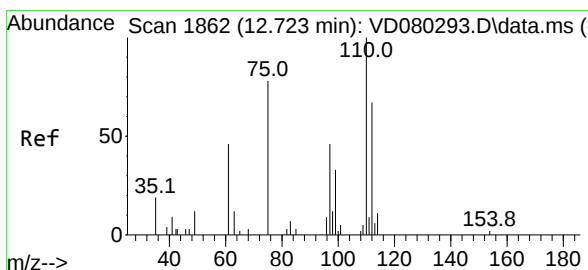
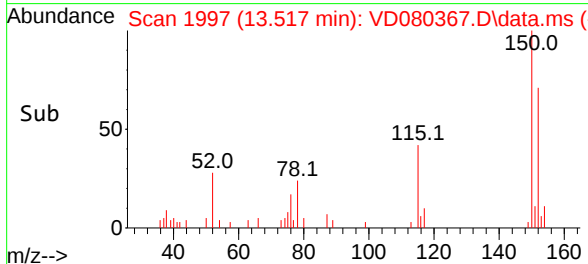
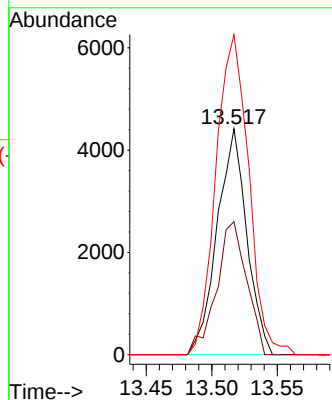
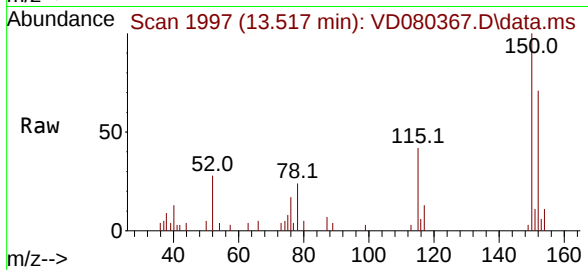
Tgt Ion:152 Resp: 6942

Ion Ratio Lower Upper

152 100

115 60.0 28.9 86.8

150 156.6 0.0 354.8



#76

1,2,3-Trichloropropane

Concen: 45.672 ug/l

RT: 12.570 min Scan# 1836

Delta R.T. -0.152 min

Lab File: VD080367.D

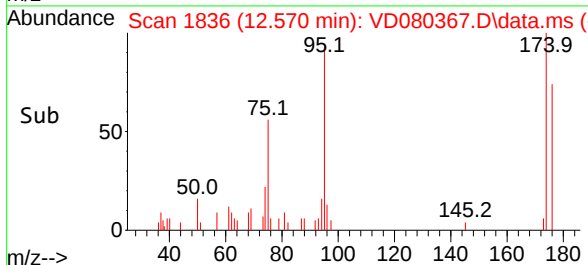
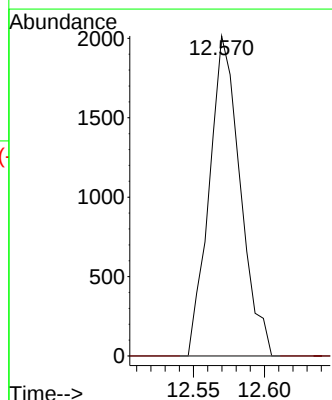
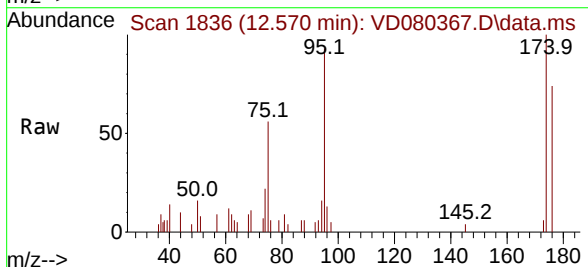
Acq: 16 May 2025 13:21

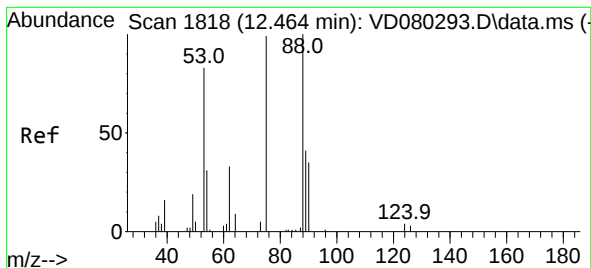
Tgt Ion: 75 Resp: 3060

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0

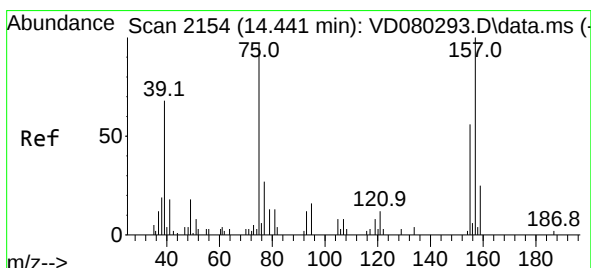
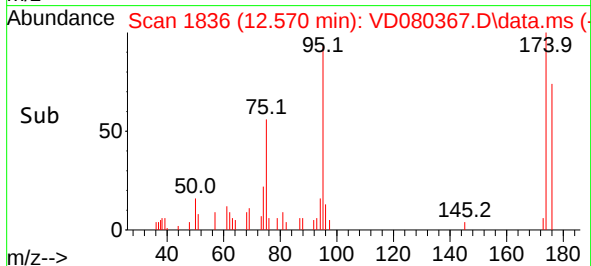
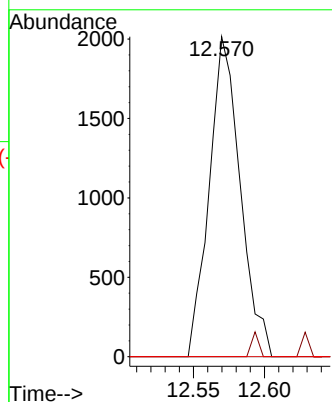
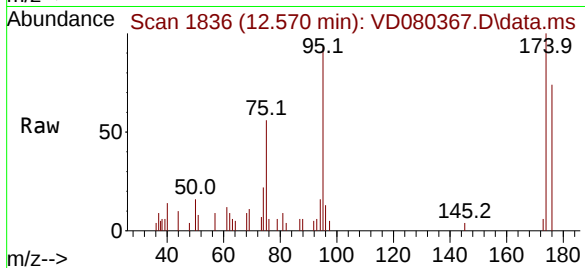




#81
 trans-1,4-Dichloro-2-butene
 Concen: 86.693 ug/l
 RT: 12.570 min Scan# 1836
 Delta R.T. 0.101 min
 Lab File: VD080367.D
 Acq: 16 May 2025 13:21

Instrument :
 MSVOA_D
 ClientSampleId :
 MH-L-VOC

Tgt Ion: 75 Resp: 3060
 Ion Ratio Lower Upper
 75 100
 53 0.0 68.7 103.1#
 89 0.0 36.1 54.1#



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 4.562 ug/l
 RT: 14.446 min Scan# 2155
 Delta R.T. 0.006 min
 Lab File: VD080367.D
 Acq: 16 May 2025 13:21

Tgt Ion: 75 Resp: 72
 Ion Ratio Lower Upper
 75 100
 155 0.0 40.6 122.0#
 157 0.0 53.3 159.9#

