

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102825\
 Data File : VX048391.D
 Acq On : 28 Oct 2025 12:13
 Operator : JC/MD
 Sample : Q3460-16
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 WC-4

Quant Time: Oct 29 01:17:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 20 14:13:59 2025
 Response via : Initial Calibration

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

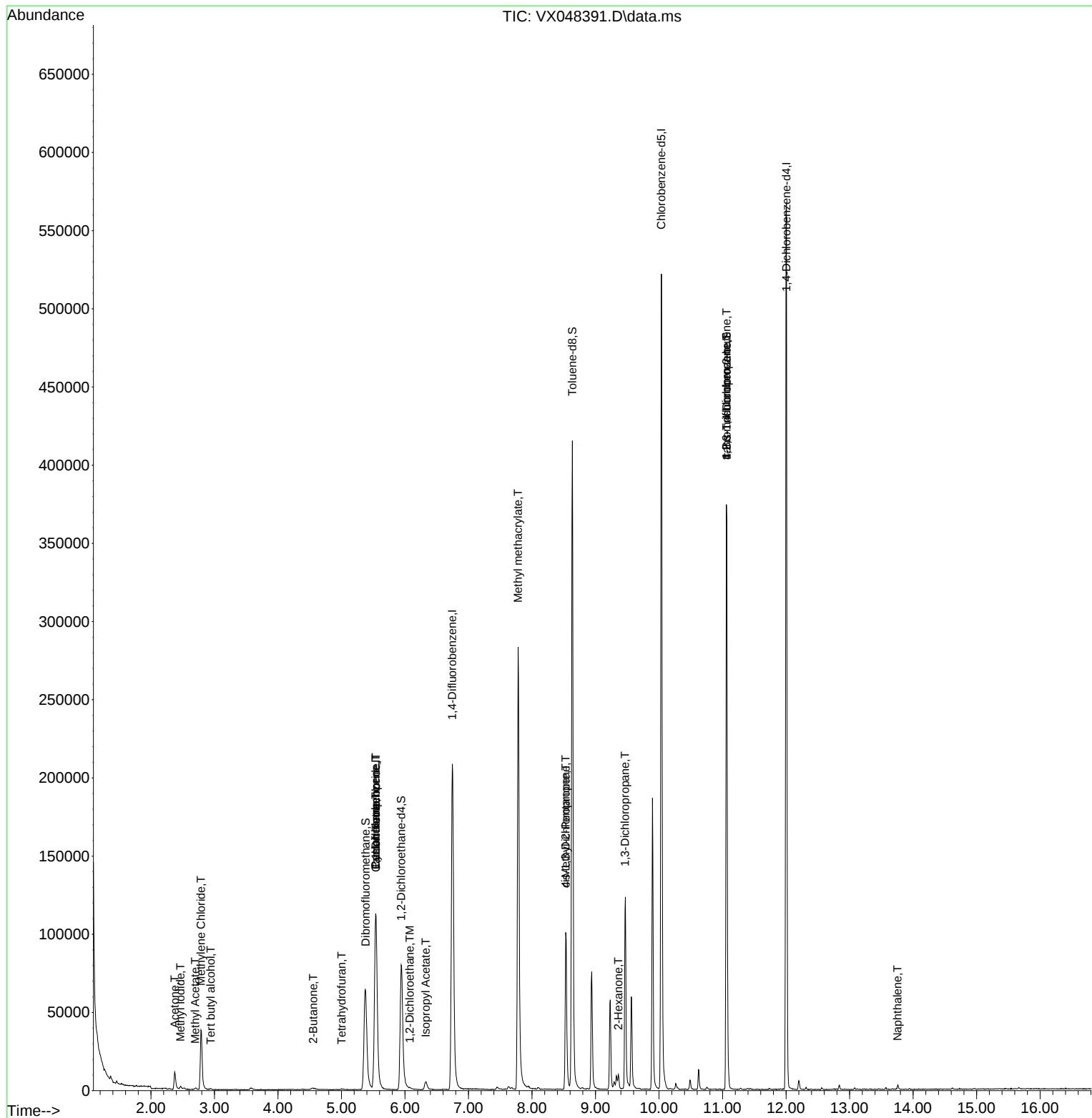
Internal Standards						
1) Pentafluorobenzene	5.538	168	113508	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	231147	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	242052	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	123830	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	90581	56.917	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	113.840%
35) Dibromofluoromethane	5.379	113	65672	41.617	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	83.240%
50) Toluene-d8	8.635	98	254044	45.930	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	91.860%#
62) 4-Bromofluorobenzene	11.061	95	109703	52.135	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	104.280%
Target Compounds						
					Qvalue	
10) Methyl Iodide	2.465	142	2113	1.372	ug/l	98
11) Tert butyl alcohol	2.941	59	83	0.525	ug/l #	72
16) Acetone	2.374	43	14436	26.441	ug/l	92
18) Methyl Acetate	2.697	43	1861	1.632	ug/l	97
20) Methylene Chloride	2.788	84	19996	15.031	ug/l	94
25) 2-Butanone	4.556	43	492	0.712	ug/l #	50
29) Tetrahydrofuran	5.001	42	94	0.227	ug/l #	20
31) Cyclohexane	5.538	56	2679	1.356	ug/l #	1
36) 1,1-Dichloropropene	5.538	75	9394	4.188	ug/l #	49
38) Carbon Tetrachloride	5.544	117	12392	4.478	ug/l #	15
42) 1,2-Dichloroethane	6.074	62	505	0.210	ug/l #	76
43) Isopropyl Acetate	6.324	43	8261	2.705	ug/l	95
48) Methyl methacrylate	7.781	41	29297	19.012	ug/l #	45
51) 4-Methyl-2-Pentanone	8.531	43	37946	21.552	ug/l #	52
54) cis-1,3-Dichloropropene	8.531	75	17307	6.392	ug/l #	62
57) 1,3-Dichloropropane	9.464	76	1095	0.417	ug/l #	43
59) 2-Hexanone	9.360	43	8191	6.672	ug/l #	26
76) 1,2,3-Trichloropropane	11.061	75	58265	29.015	ug/l #	33
81) trans-1,4-Dichloro-2-b...	11.061	75	58265	70.591	ug/l #	10
95) Naphthalene	13.756	128	2108	0.293	ug/l #	95

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

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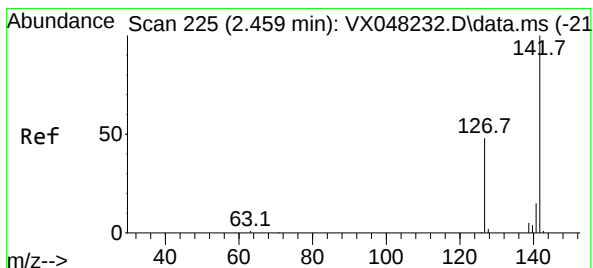
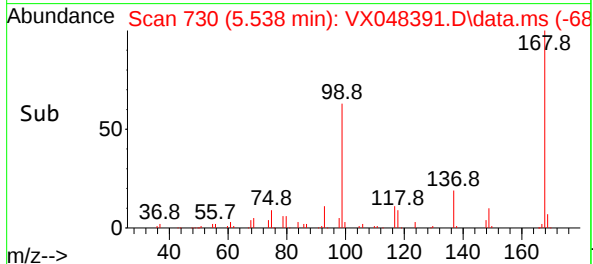
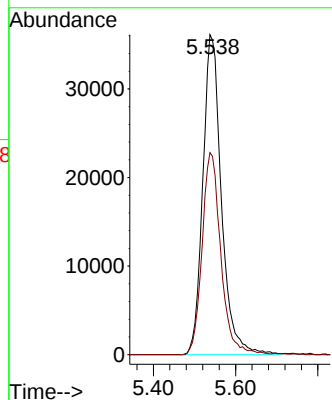
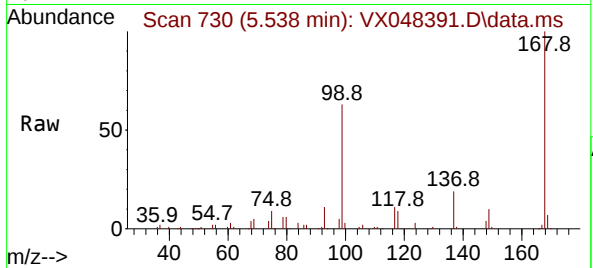




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX048391.D
Acq: 28 Oct 2025 12:13

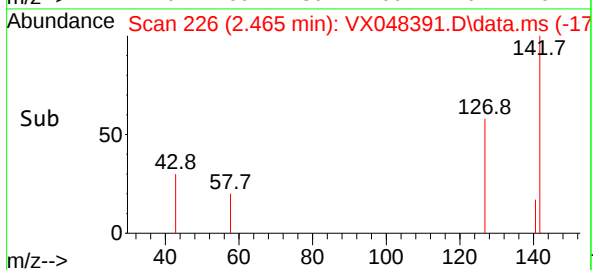
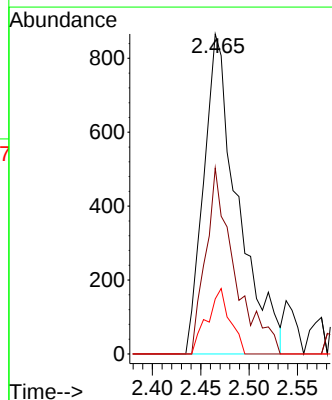
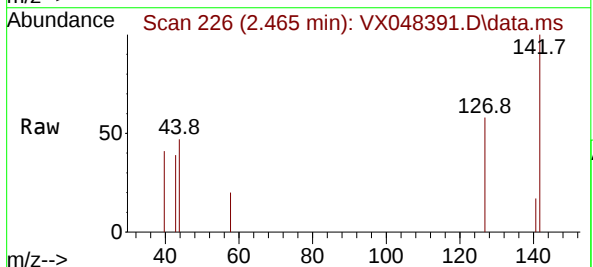
Instrument :
MSVOA_X
ClientSampleId :
WC-4

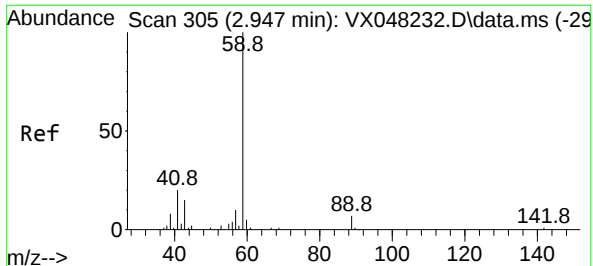
Tgt Ion:168 Resp: 113508
Ion Ratio Lower Upper
168 100
99 63.1 46.4 69.6



#10
Methyl Iodide
Concen: 1.372 ug/l
RT: 2.465 min Scan# 226
Delta R.T. 0.006 min
Lab File: VX048391.D
Acq: 28 Oct 2025 12:13

Tgt Ion:142 Resp: 2113
Ion Ratio Lower Upper
142 100
127 49.4 38.5 57.7
141 13.7 11.6 17.4





#11

Tert butyl alcohol

Concen: 0.525 ug/l

RT: 2.941 min Scan# 305

Delta R.T. -0.000 min

Lab File: VX048391.D

Acq: 28 Oct 2025 12:13

Instrument :

MSVOA_X

ClientSampleId :

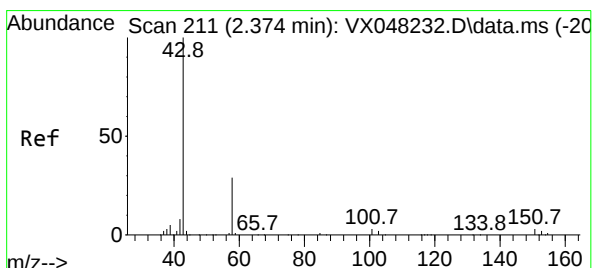
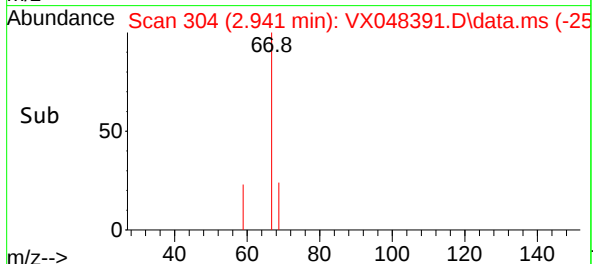
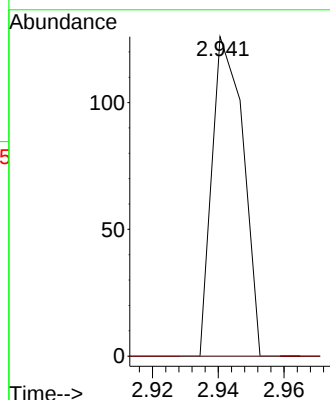
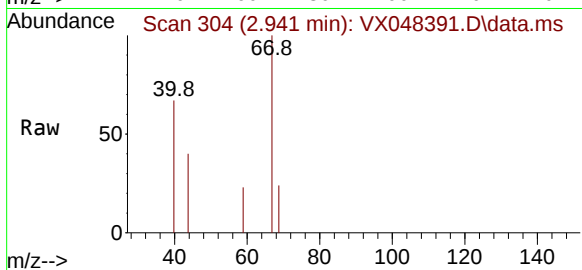
WC-4

Tgt Ion: 59 Resp: 83

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#



#16

Acetone

Concen: 26.441 ug/l

RT: 2.374 min Scan# 211

Delta R.T. -0.000 min

Lab File: VX048391.D

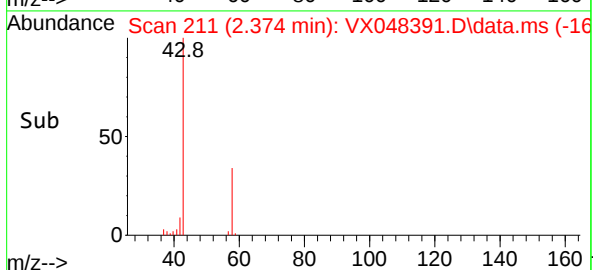
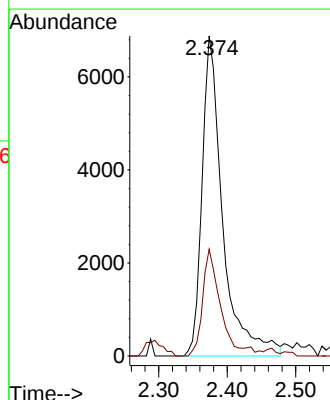
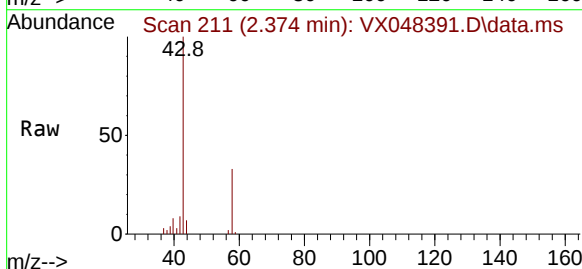
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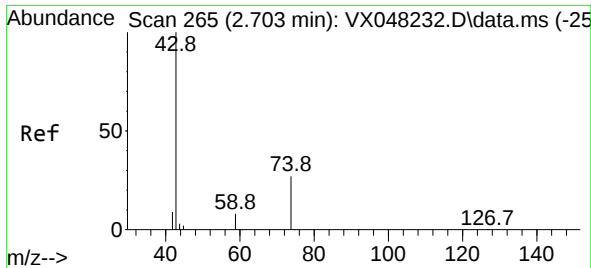
Tgt Ion: 43 Resp: 14436

Ion Ratio Lower Upper

43 100

58 33.3 23.4 35.2

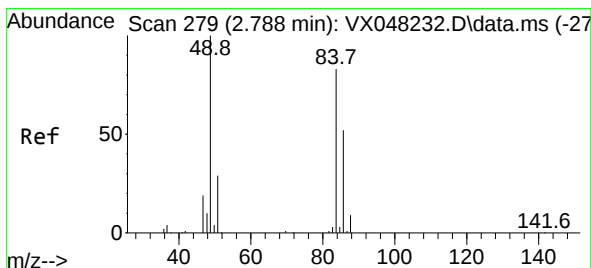
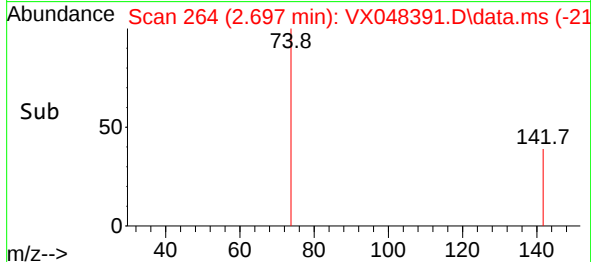
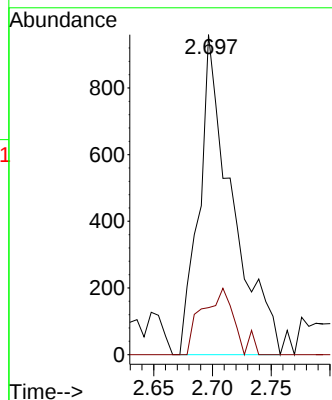
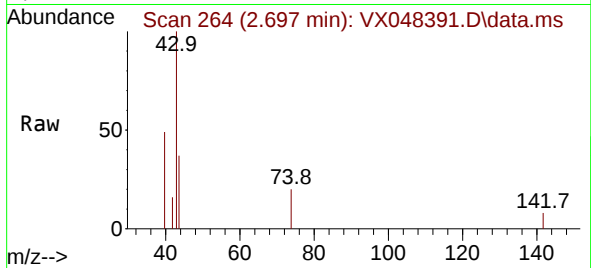




#18
Methyl Acetate
Concen: 1.632 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.000 min
Lab File: VX048391.D
Acq: 28 Oct 2025 12:13

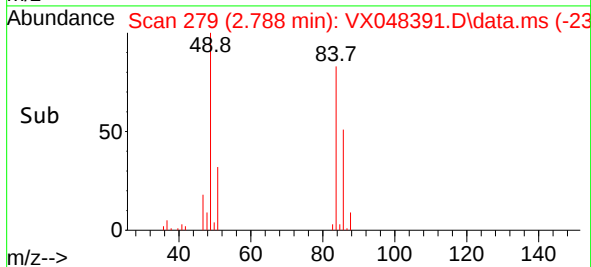
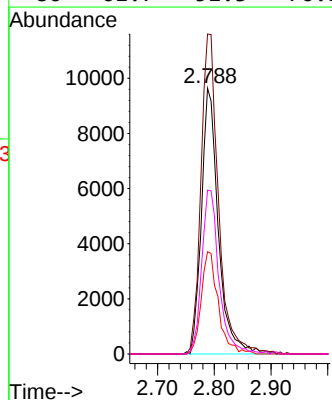
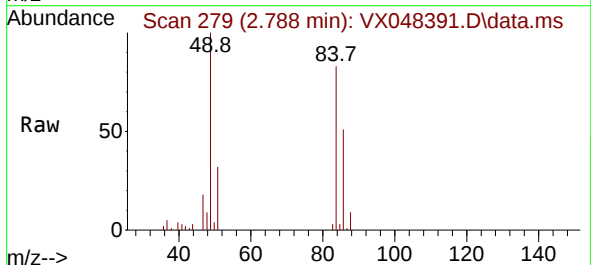
Instrument :
MSVOA_X
ClientSampleId :
WC-4

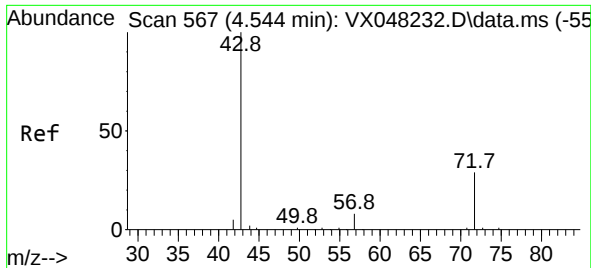
Tgt Ion: 43 Resp: 1861
Ion Ratio Lower Upper
43 100
74 20.5 17.5 26.3



#20
Methylene Chloride
Concen: 15.031 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX048391.D
Acq: 28 Oct 2025 12:13

Tgt Ion: 84 Resp: 19996
Ion Ratio Lower Upper
84 100
49 120.4 104.1 156.1
51 38.5 31.3 46.9
86 61.7 51.3 76.9

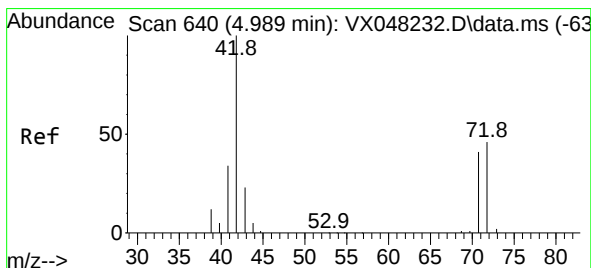
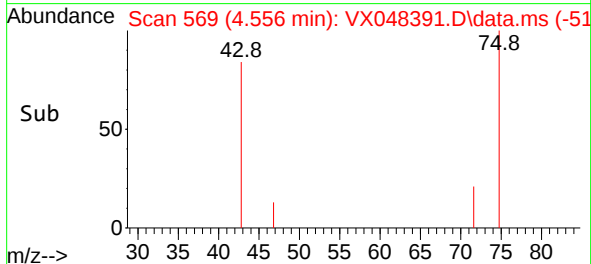
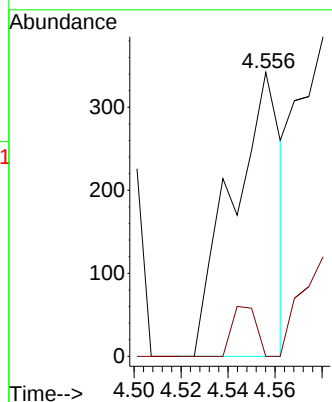
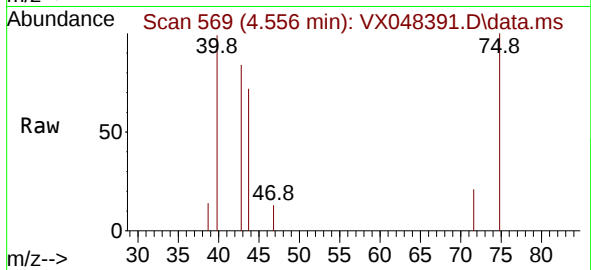




#25
2-Butanone
Concen: 0.712 ug/l
RT: 4.556 min Scan# 51
Delta R.T. 0.018 min
Lab File: VX048391.D
Acq: 28 Oct 2025 12:13

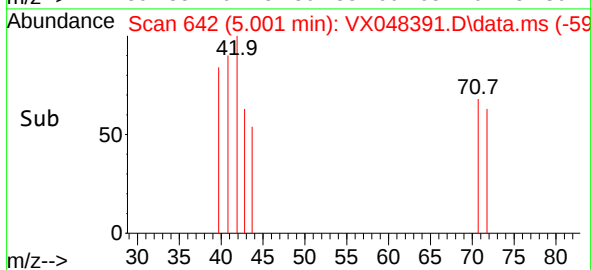
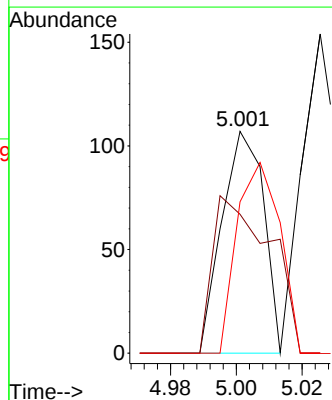
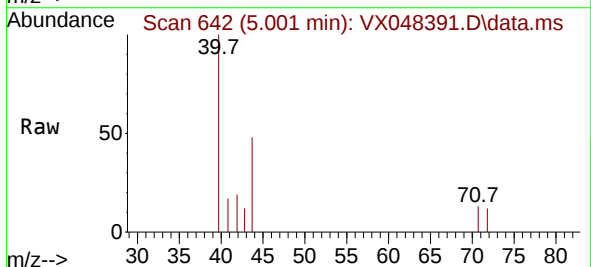
Instrument :
MSVOA_X
ClientSampleId :
WC-4

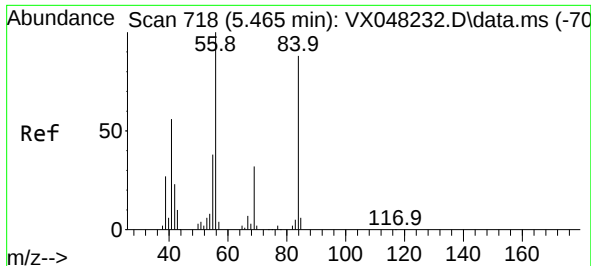
Tgt Ion: 43 Resp: 492
Ion Ratio Lower Upper
43 100
72 0.0 19.9 29.9#



#29
Tetrahydrofuran
Concen: 0.227 ug/l
RT: 5.001 min Scan# 642
Delta R.T. 0.012 min
Lab File: VX048391.D
Acq: 28 Oct 2025 12:13

Tgt Ion: 42 Resp: 94
Ion Ratio Lower Upper
42 100
72 97.9 35.3 52.9#
71 88.3 32.2 48.4#

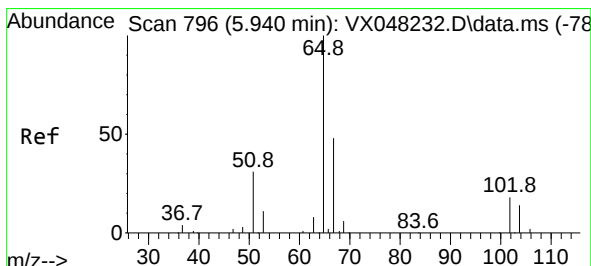
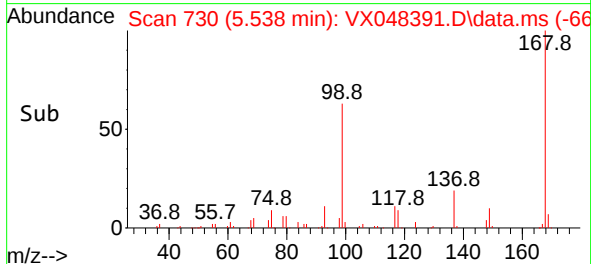
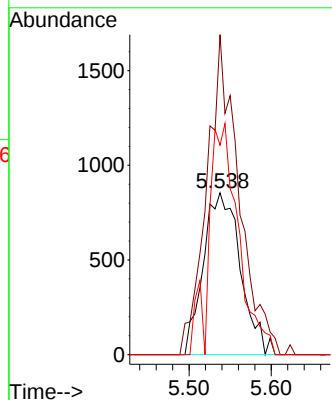
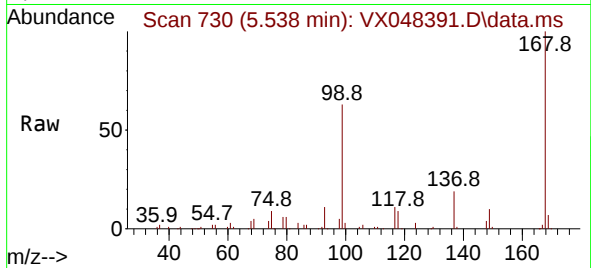




#31
Cyclohexane
Concen: 1.356 ug/l
RT: 5.538 min Scan# 718
Delta R.T. 0.079 min
Lab File: VX048391.D
Acq: 28 Oct 2025 12:13

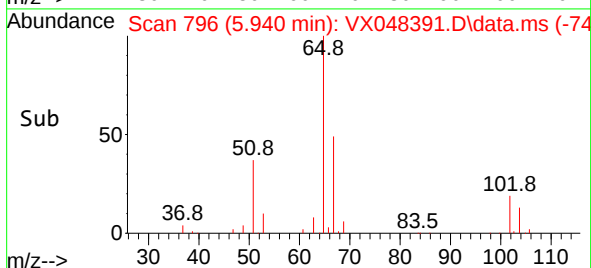
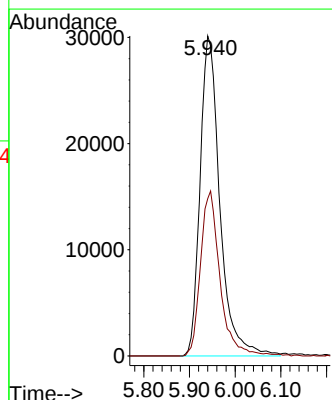
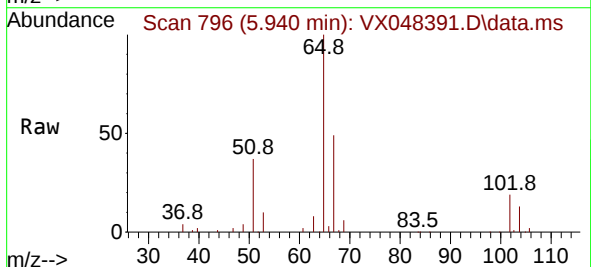
Instrument :
MSVOA_X
ClientSampleId :
WC-4

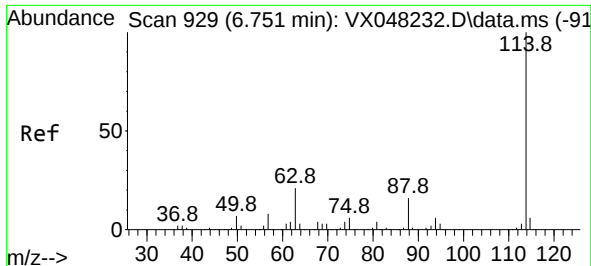
Tgt Ion: 56 Resp: 2679
Ion Ratio Lower Upper
56 100
69 197.7 23.0 34.6#
84 129.4 64.6 97.0#



#33
1,2-Dichloroethane-d4
Concen: 56.917 ug/l
RT: 5.940 min Scan# 796
Delta R.T. -0.000 min
Lab File: VX048391.D
Acq: 28 Oct 2025 12:13

Tgt Ion: 65 Resp: 90581
Ion Ratio Lower Upper
65 100
67 50.9 0.0 105.0

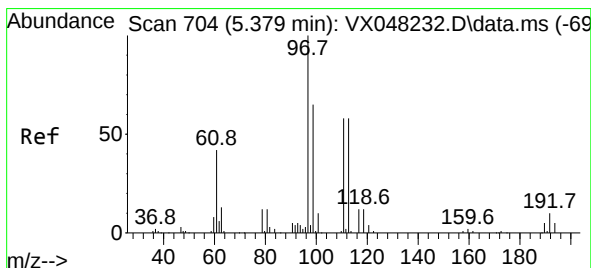
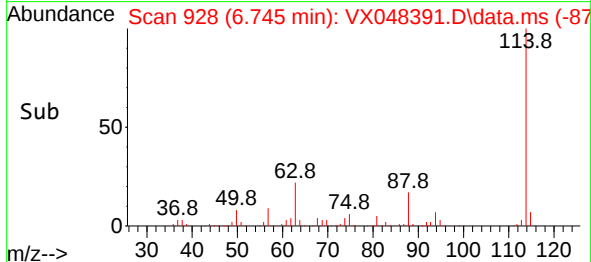
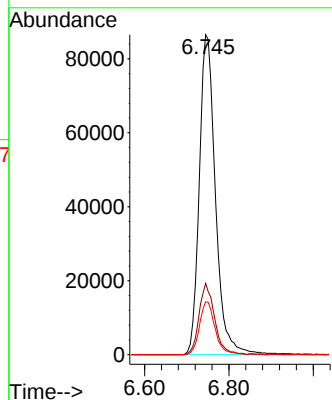
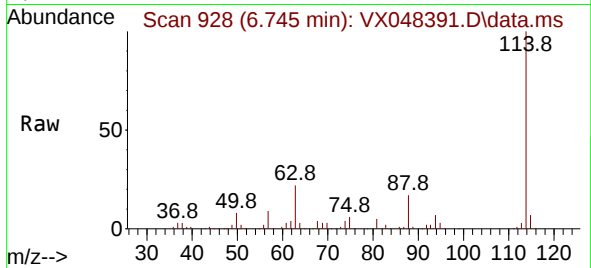




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 91
Delta R.T. -0.000 min
Lab File: VX048391.D
Acq: 28 Oct 2025 12:13

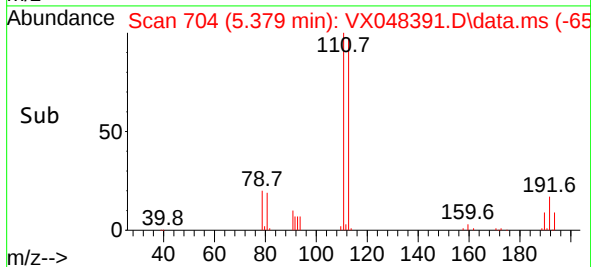
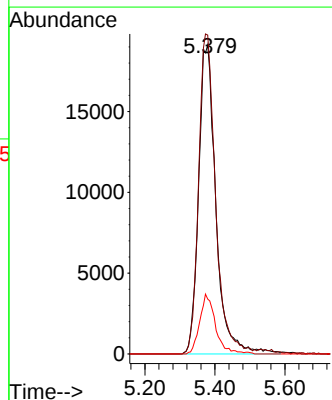
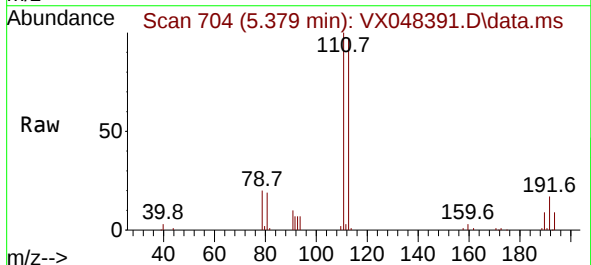
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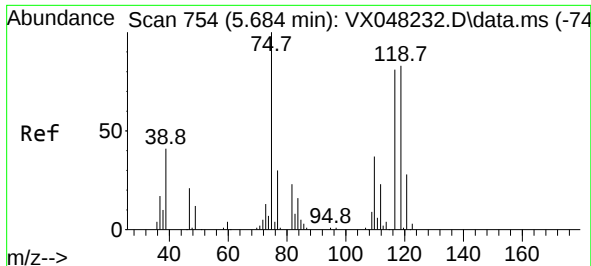
Tgt Ion:114 Resp: 231147
Ion Ratio Lower Upper
114 100
63 22.3 0.0 43.2
88 16.6 0.0 33.6



#35
Dibromofluoromethane
Concen: 41.617 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.006 min
Lab File: VX048391.D
Acq: 28 Oct 2025 12:13

Tgt Ion:113 Resp: 65672
Ion Ratio Lower Upper
113 100
111 101.4 82.2 123.4
192 17.5 15.1 22.7





#36

1,1-Dichloropropene

Concen: 4.188 ug/l

RT: 5.538 min Scan# 71

Delta R.T. -0.146 min

Lab File: VX048391.D

Acq: 28 Oct 2025 12:13

Instrument :

MSVOA_X

ClientSampleId :

WC-4

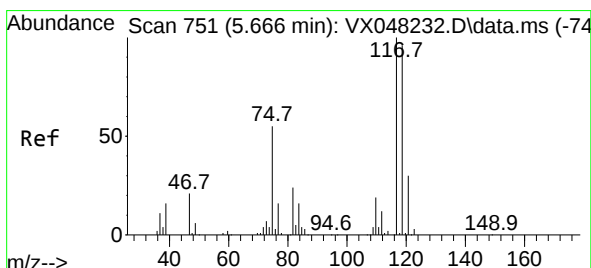
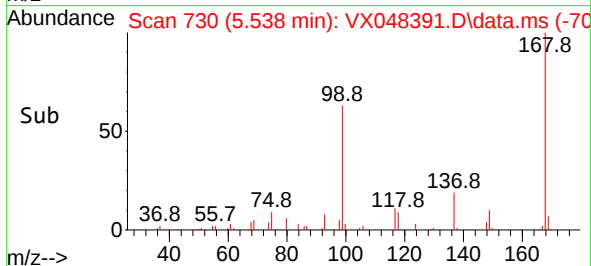
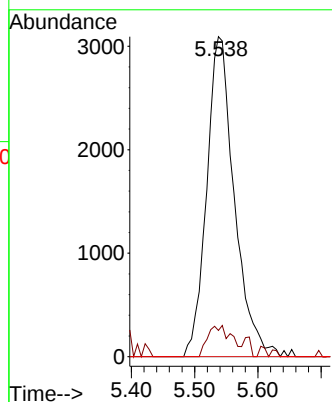
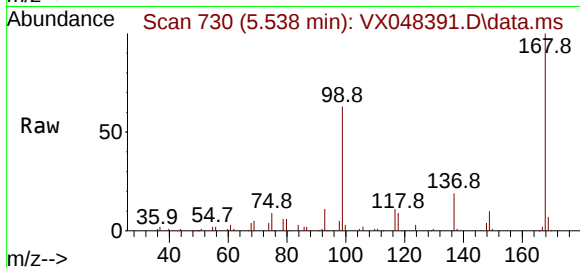
Tgt Ion: 75 Resp: 9394

Ion Ratio Lower Upper

75 100

110 8.5 17.7 53.1#

77 0.0 24.3 36.5#



#38

Carbon Tetrachloride

Concen: 4.478 ug/l

RT: 5.544 min Scan# 731

Delta R.T. -0.122 min

Lab File: VX048391.D

Acq: 28 Oct 2025 12:13

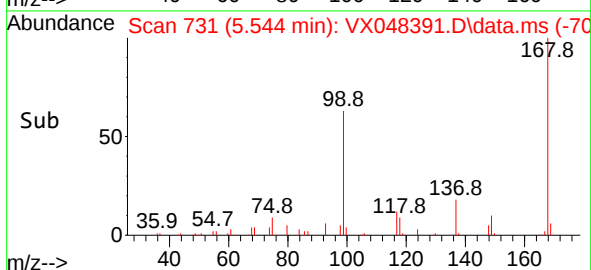
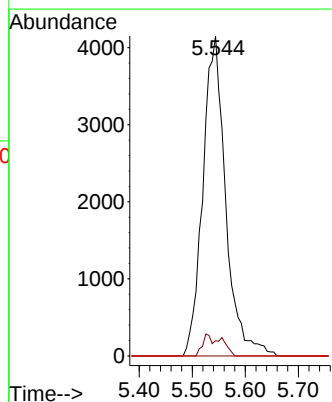
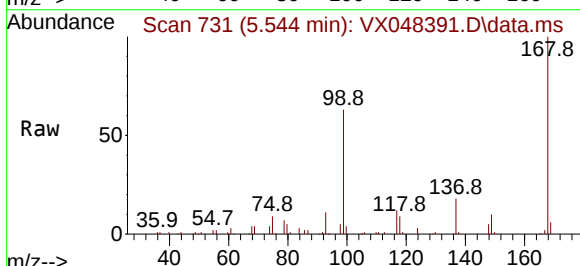
Tgt Ion: 117 Resp: 12392

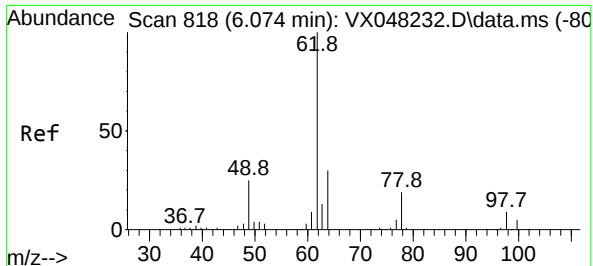
Ion Ratio Lower Upper

117 100

119 4.7 77.2 115.8#

121 0.0 24.8 37.2#





#42

1,2-Dichloroethane

Concen: 0.210 ug/l

RT: 6.074 min Scan# 818

Delta R.T. 0.006 min

Lab File: VX048391.D

Acq: 28 Oct 2025 12:13

Instrument :

MSVOA_X

ClientSampleId :

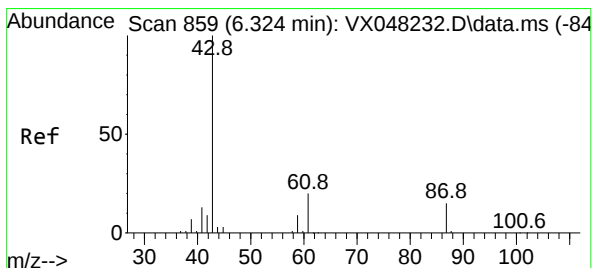
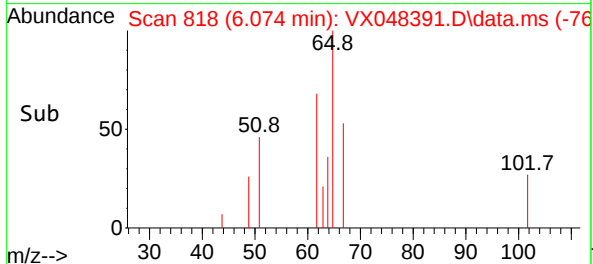
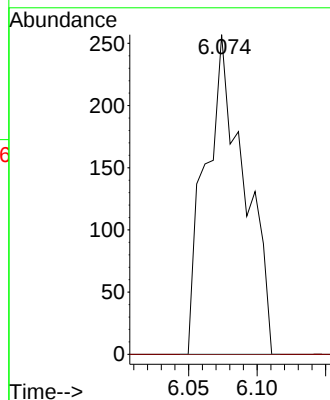
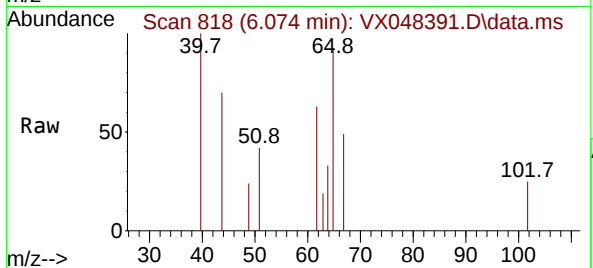
WC-4

Tgt Ion: 62 Resp: 505

Ion Ratio Lower Upper

62 100

98 0.0 0.0 17.2



#43

Isopropyl Acetate

Concen: 2.705 ug/l

RT: 6.324 min Scan# 859

Delta R.T. -0.000 min

Lab File: VX048391.D

Acq: 28 Oct 2025 12:13

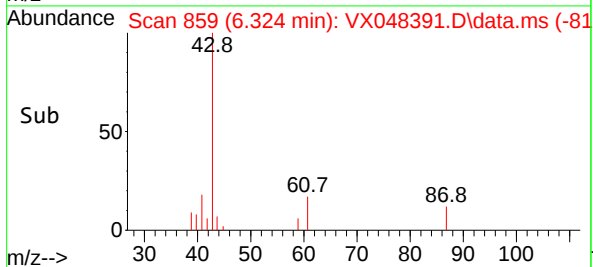
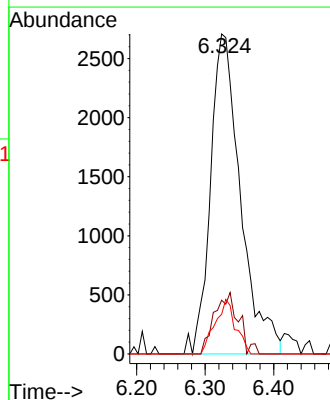
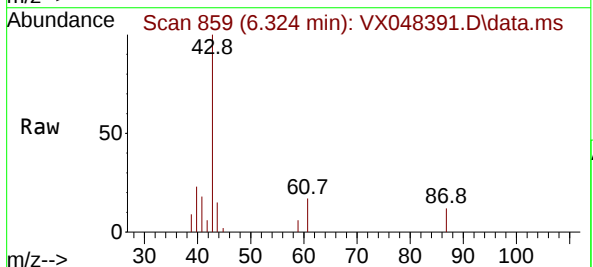
Tgt Ion: 43 Resp: 8261

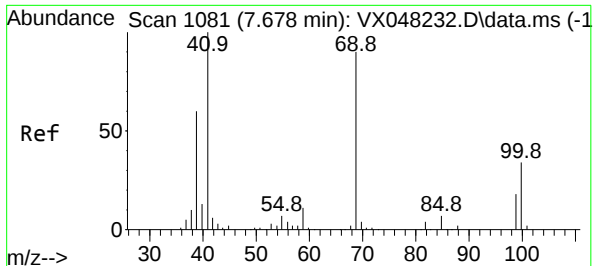
Ion Ratio Lower Upper

43 100

61 15.4 14.9 22.3

87 11.5 9.4 14.2

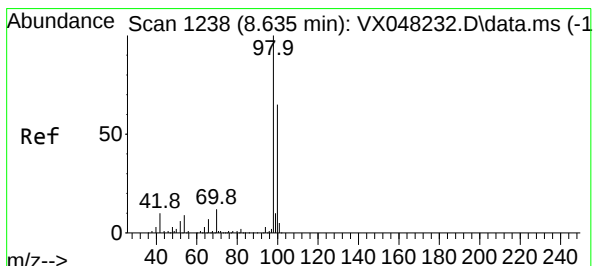
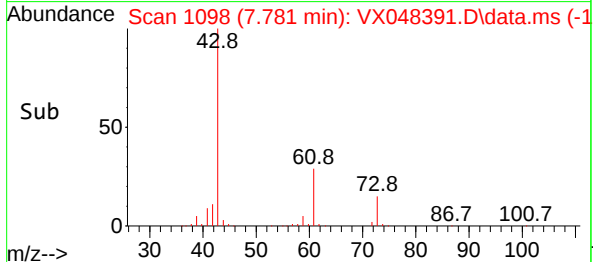
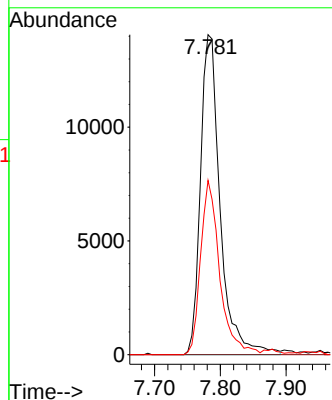
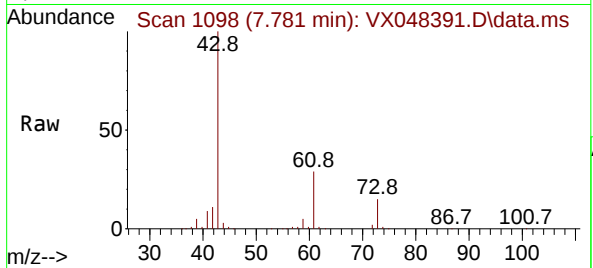




#48
Methyl methacrylate
Concen: 19.012 ug/l
RT: 7.781 min Scan# 1098
Delta R.T. 0.104 min
Lab File: VX048391.D
Acq: 28 Oct 2025 12:13

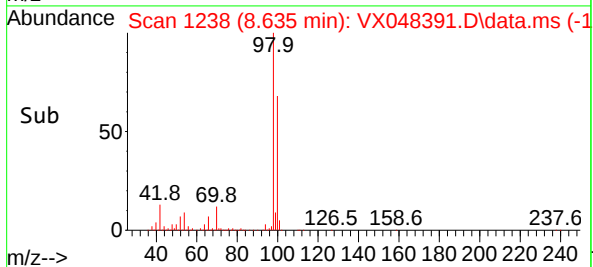
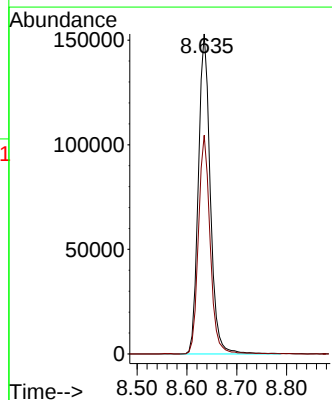
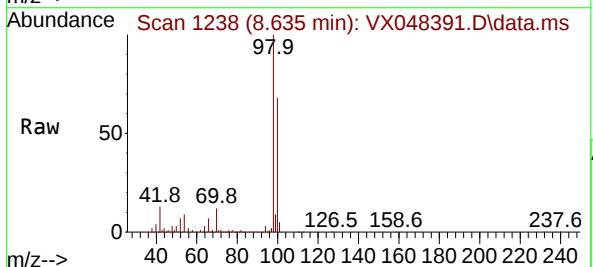
Instrument :
MSVOA_X
ClientSampleId :
WC-4

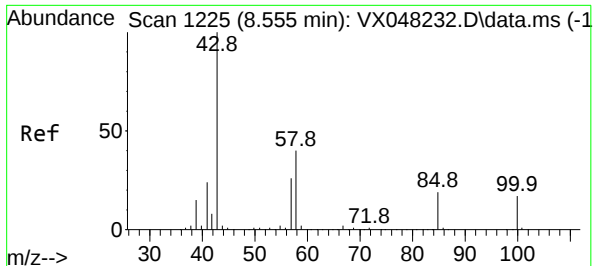
Tgt Ion: 41 Resp: 29297
Ion Ratio Lower Upper
41 100
69 0.0 63.4 95.0#
39 52.9 47.1 70.7



#50
Toluene-d8
Concen: 45.930 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX048391.D
Acq: 28 Oct 2025 12:13

Tgt Ion: 98 Resp: 254044
Ion Ratio Lower Upper
98 100
100 67.2 53.0 79.4

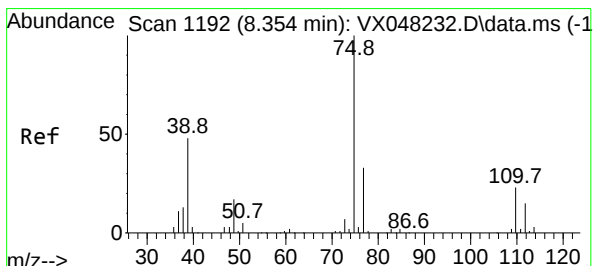
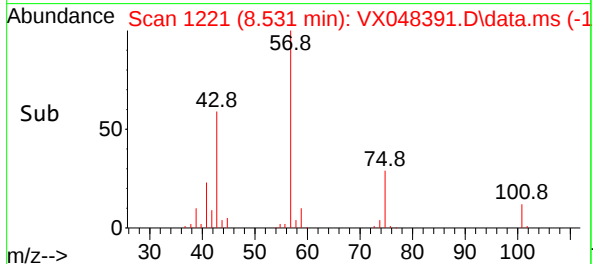
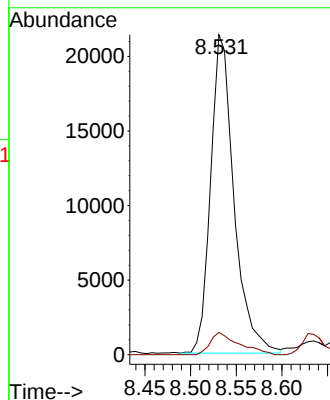
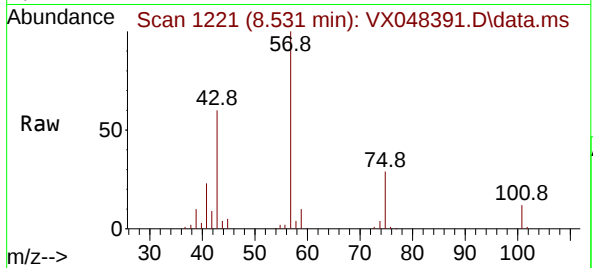




#51
4-Methyl-2-Pentanone
Concen: 21.552 ug/l
RT: 8.531 min Scan# 11
Delta R.T. -0.024 min
Lab File: VX048391.D
Acq: 28 Oct 2025 12:13

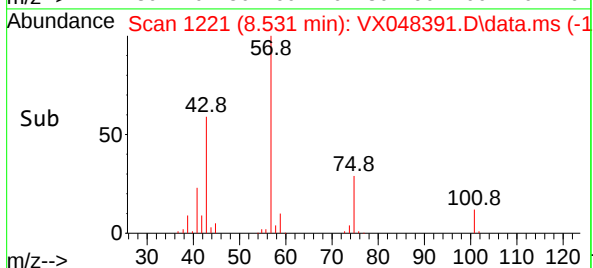
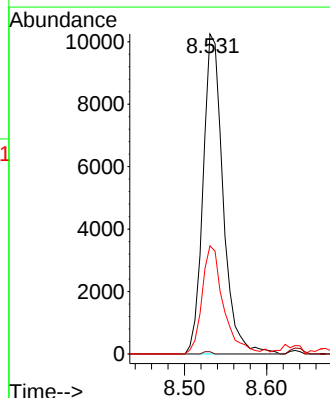
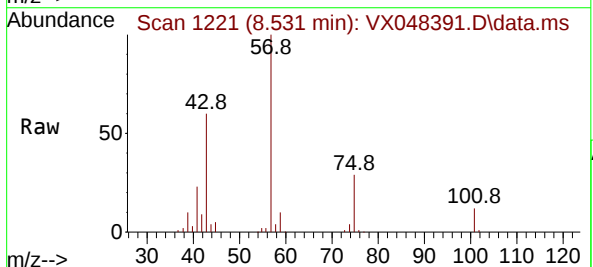
Instrument :
MSVOA_X
ClientSampleId :
WC-4

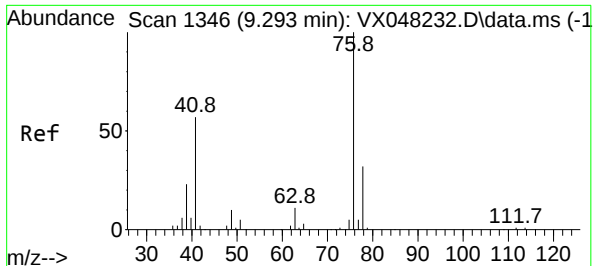
Tgt Ion: 43 Resp: 37946
Ion Ratio Lower Upper
43 100
58 8.6 29.5 44.3#



#54
cis-1,3-Dichloropropene
Concen: 6.392 ug/l
RT: 8.531 min Scan# 1221
Delta R.T. 0.183 min
Lab File: VX048391.D
Acq: 28 Oct 2025 12:13

Tgt Ion: 75 Resp: 17307
Ion Ratio Lower Upper
75 100
77 0.7 24.9 37.3#
39 33.8 42.6 64.0#

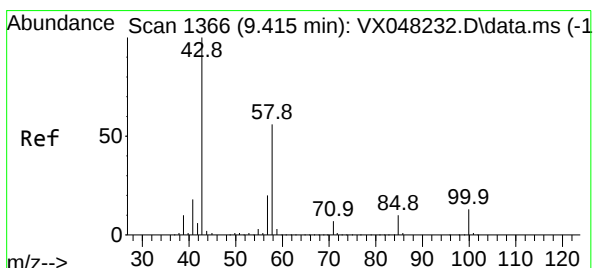
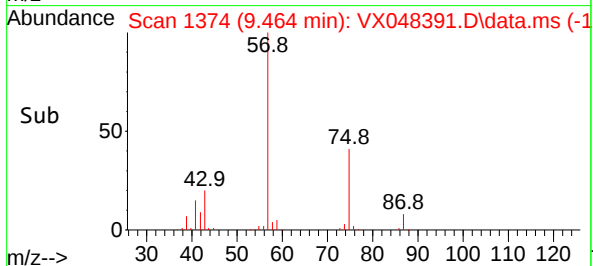
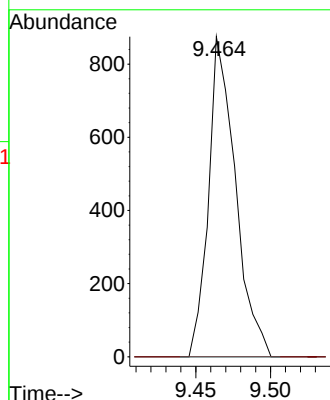
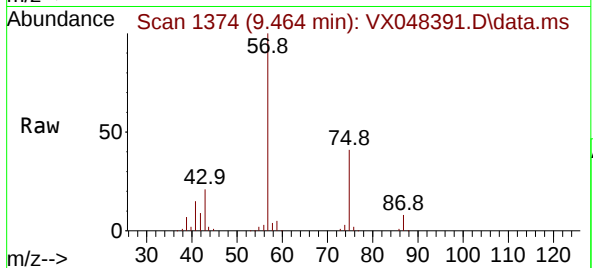




#57
1,3-Dichloropropane
Concen: 0.417 ug/l
RT: 9.464 min Scan# 11
Delta R.T. 0.171 min
Lab File: VX048391.D
Acq: 28 Oct 2025 12:13

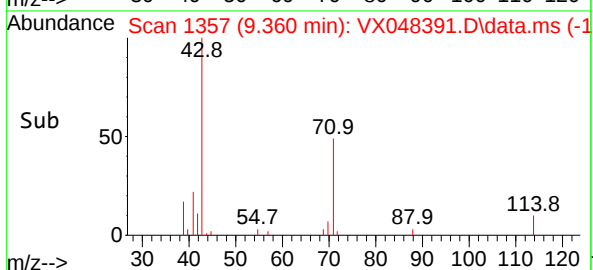
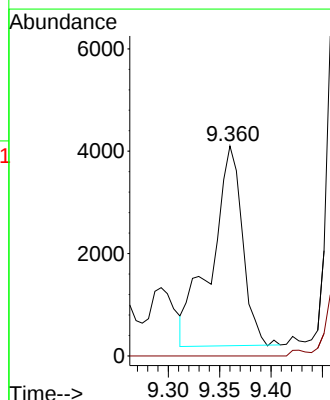
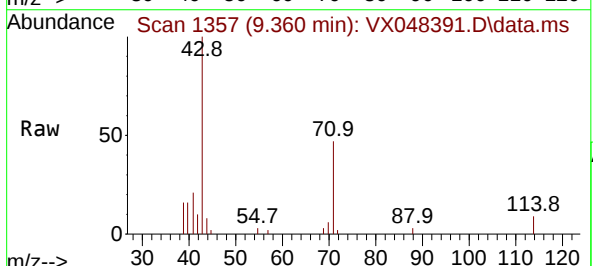
Instrument :
MSVOA_X
ClientSampleId :
WC-4

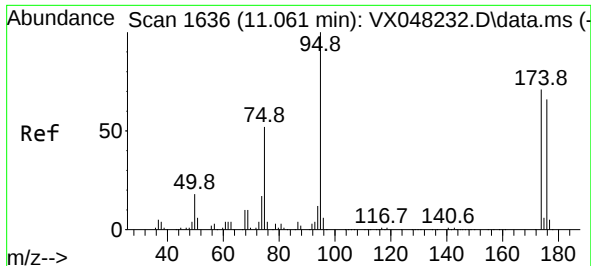
Tgt Ion: 76 Resp: 1095
Ion Ratio Lower Upper
76 100
78 0.0 25.4 38.0#



#59
2-Hexanone
Concen: 6.672 ug/l
RT: 9.360 min Scan# 1357
Delta R.T. -0.055 min
Lab File: VX048391.D
Acq: 28 Oct 2025 12:13

Tgt Ion: 43 Resp: 8191
Ion Ratio Lower Upper
43 100
58 0.0 26.3 78.8#





#62

4-Bromofluorobenzene

Concen: 52.135 ug/l

RT: 11.061 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX048391.D

Acq: 28 Oct 2025 12:13

Instrument :

MSVOA_X

ClientSampleId :

WC-4

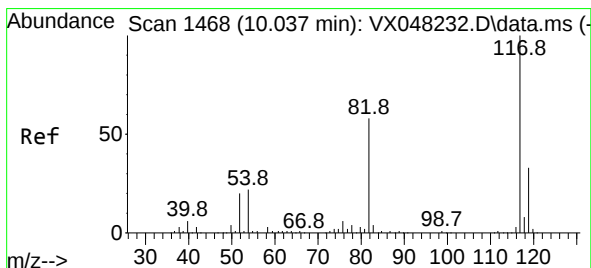
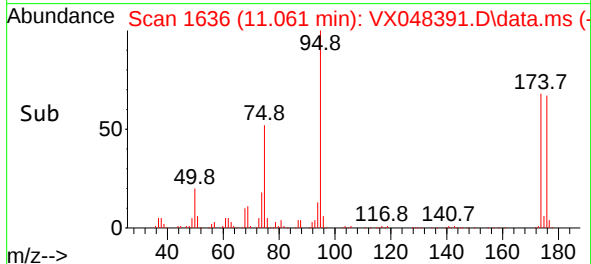
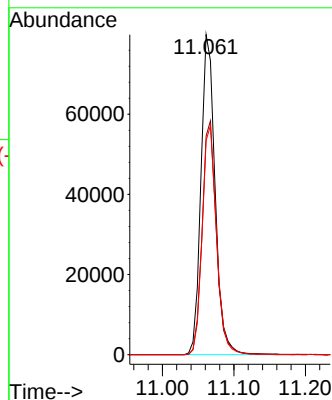
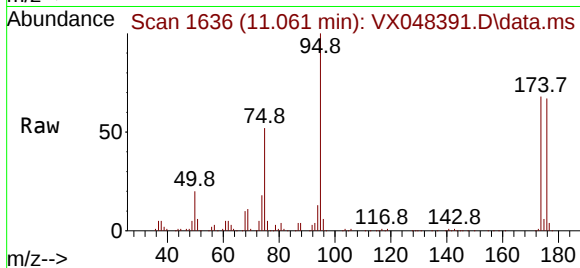
Tgt Ion: 95 Resp: 109703

Ion Ratio Lower Upper

95 100

174 73.6 0.0 147.8

176 72.5 0.0 142.8



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.037 min Scan# 1468

Delta R.T. -0.000 min

Lab File: VX048391.D

Acq: 28 Oct 2025 12:13

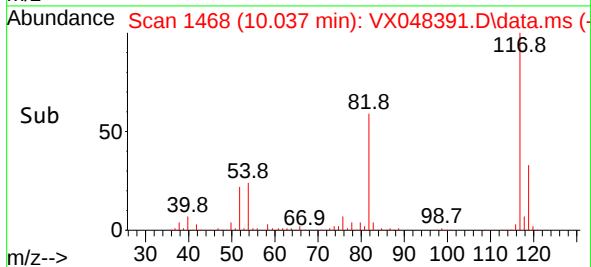
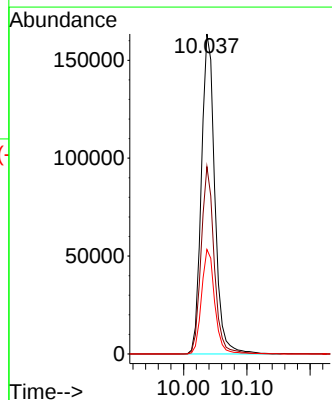
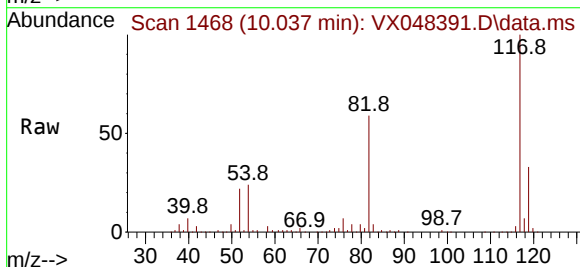
Tgt Ion: 117 Resp: 242052

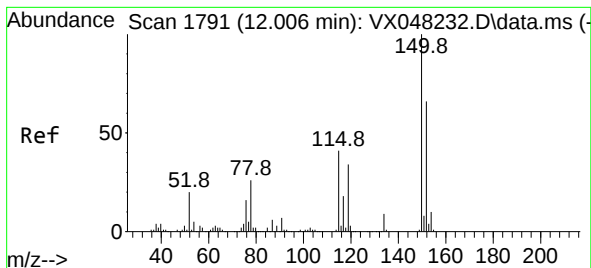
Ion Ratio Lower Upper

117 100

82 58.6 46.5 69.7

119 32.7 25.9 38.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.006 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX048391.D

Acq: 28 Oct 2025 12:13

Instrument :

MSVOA_X

ClientSampleId :

WC-4

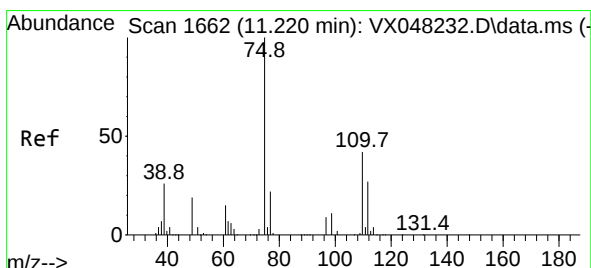
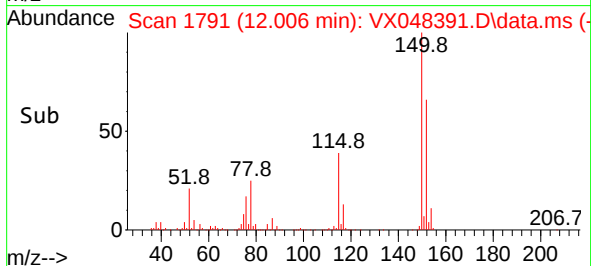
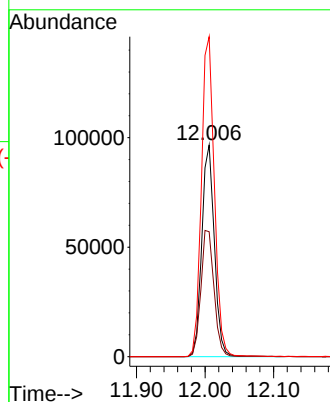
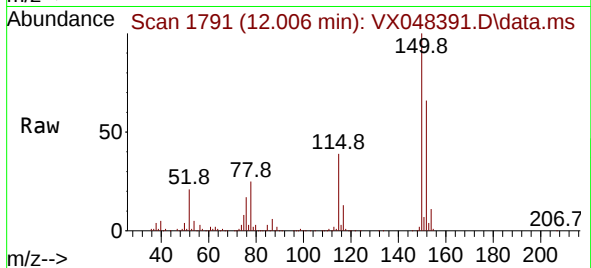
Tgt Ion:152 Resp: 123830

Ion Ratio Lower Upper

152 100

115 62.4 43.1 129.4

150 155.8 0.0 353.0



#76

1,2,3-Trichloropropane

Concen: 29.015 ug/l

RT: 11.061 min Scan# 1636

Delta R.T. -0.159 min

Lab File: VX048391.D

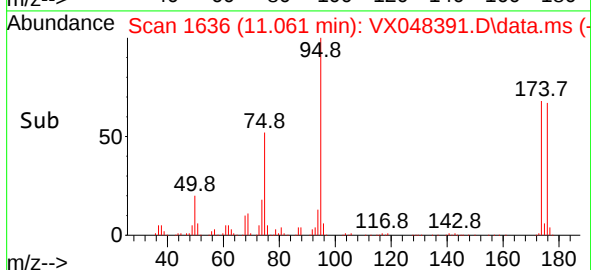
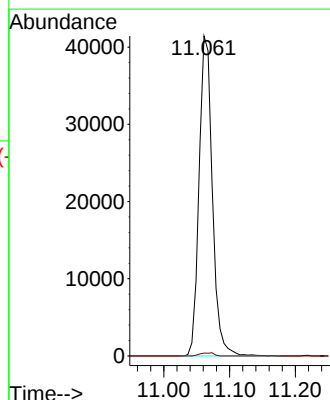
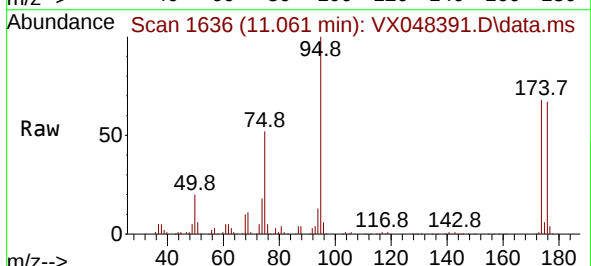
Acq: 28 Oct 2025 12:13

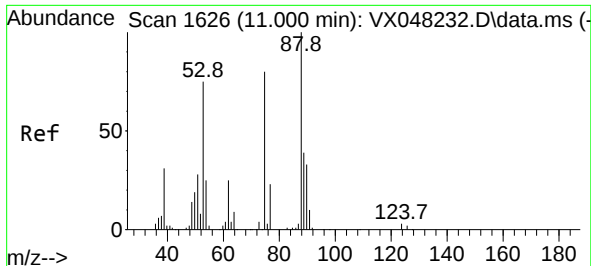
Tgt Ion: 75 Resp: 58265

Ion Ratio Lower Upper

75 100

77 1.0 22.4 67.2#

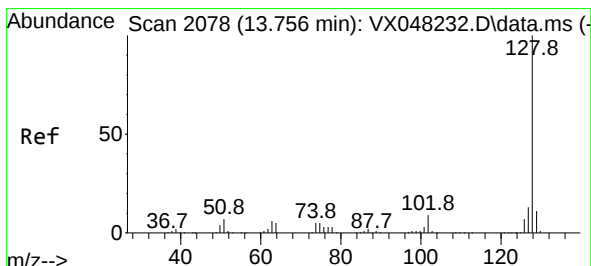
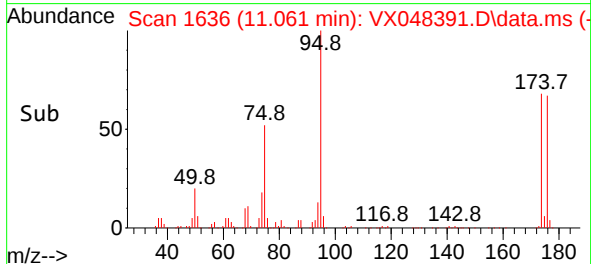
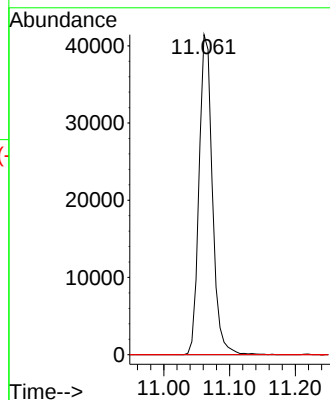
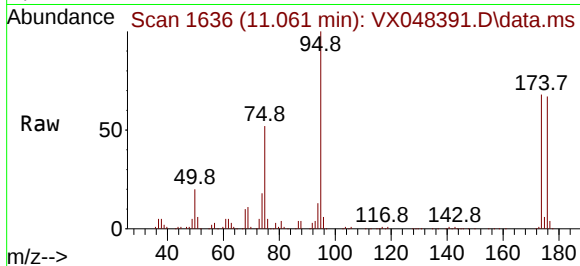




#81
trans-1,4-Dichloro-2-butene
Concen: 70.591 ug/l
RT: 11.061 min Scan# 1
Delta R.T. 0.061 min
Lab File: VX048391.D
Acq: 28 Oct 2025 12:13

Instrument :
MSVOA_X
ClientSampleId :
WC-4

Tgt Ion: 75 Resp: 58265
Ion Ratio Lower Upper
75 100
53 0.0 79.5 119.3#
89 0.0 36.8 55.2#



#95
Naphthalene
Concen: 0.293 ug/l
RT: 13.756 min Scan# 2078
Delta R.T. -0.000 min
Lab File: VX048391.D
Acq: 28 Oct 2025 12:13

Tgt Ion: 128 Resp: 2108
Ion Ratio Lower Upper
128 100
127 8.9 10.2 15.4#
129 10.8 8.6 12.8

