

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV102125\
 Data File : VV039302.D
 Acq On : 21 Oct 2025 14:00
 Operator : SY/MD
 Sample : Q3390-06DL 5X
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 4160DL

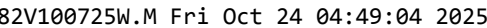
Quant Time: Oct 24 04:48:55 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V100725W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 08 05:01:26 2025
 Response via : Initial Calibration

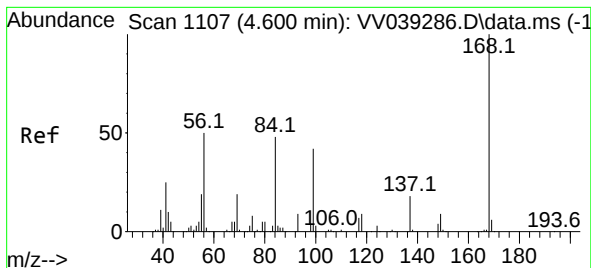
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	4.600	168	723535	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.532	114	1271826	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.773	117	1215647	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	569982	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.940	65	576159	56.041	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery = 112.080%			
35) Dibromofluoromethane	4.503	113	494898	49.386	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery = 98.780%			
50) Toluene-d8	7.236	98	1600610	46.951	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery = 93.900%			
62) 4-Bromofluorobenzene	10.001	95	597776	49.235	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery = 98.480%			
Target Compounds						
					Qvalue	
6) Chloroethane	1.548	64	472	Below Cal	#	52
11) Tert butyl alcohol	2.571	59	3513	1.763	ug/l #	76
13) Acrolein	2.002	56	217	Below Cal	#	15
16) Acetone	2.127	43	48882	Below Cal		98
20) Methylene Chloride	2.461	84	5258	Below Cal		91
30) Chloroform	4.285	83	7594	0.400	ug/l	87
31) Cyclohexane	4.593	56	13506	0.997	ug/l #	1
36) 1,1-Dichloropropene	4.600	75	58906	4.680	ug/l #	50
38) Carbon Tetrachloride	4.600	117	72896	4.754	ug/l #	16
41) Methacrylonitrile	4.140	41	316	1.740	ug/l #	30
51) 4-Methyl-2-Pentanone	7.236	43	4939	0.369	ug/l #	1
52) Toluene	7.307	92	1671935	68.561	ug/l	99
53) t-1,3-Dichloropropene	7.304	75	19141	1.353	ug/l #	1
58) 2-Chloroethyl Vinyl ether	6.805	63	68	8.476	ug/l #	45
76) 1,2,3-Trichloropropane	10.001	75	289378	25.437	ug/l #	54
81) trans-1,4-Dichloro-2-b...	10.001	75	289378	64.241	ug/l #	14

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

Quant Time: Oct 24 04:48:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V100725W.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:01:26 2025
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.600 min Scan# 1107

Delta R.T. -0.000 min

Lab File: VV039302.D

Acq: 21 Oct 2025 14:00

Instrument :

MSVOA_V

ClientSampleId :

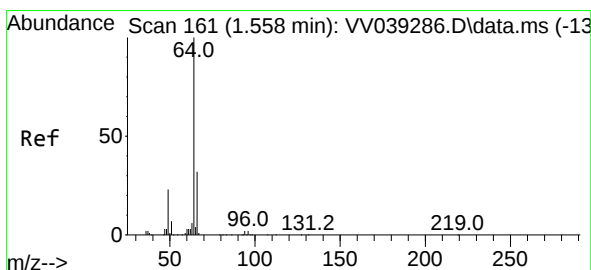
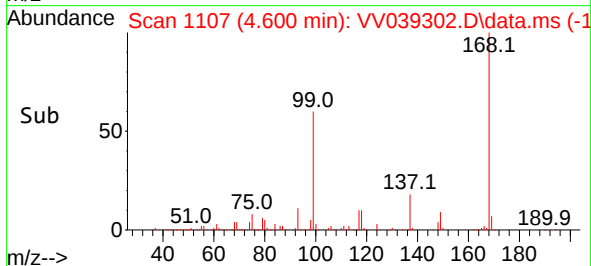
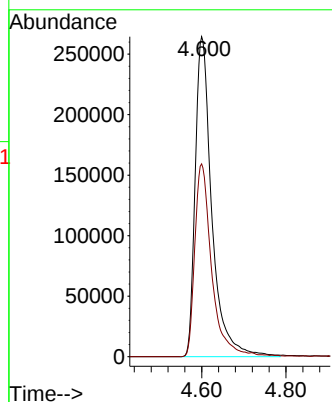
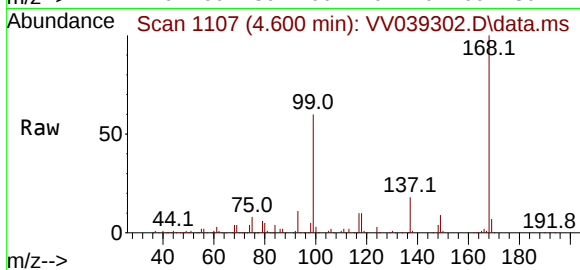
4160DL

Tgt Ion:168 Resp: 723535

Ion Ratio Lower Upper

168 100

99 60.3 46.6 70.0



#6

Chloroethane

Concen: Below Cal

RT: 1.548 min Scan# 158

Delta R.T. -0.010 min

Lab File: VV039302.D

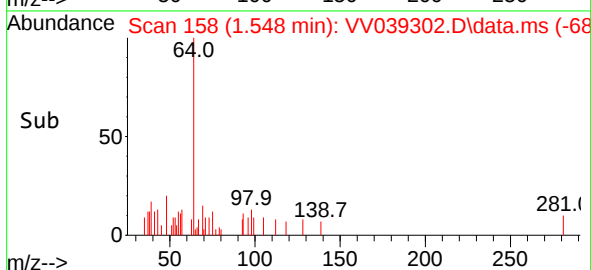
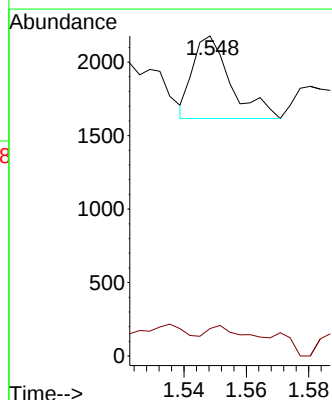
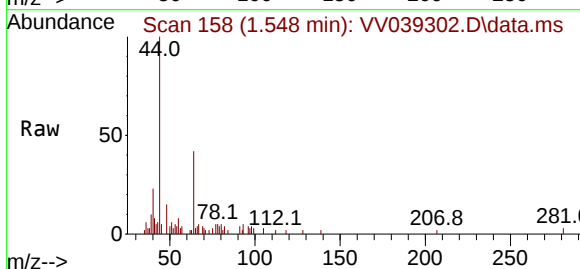
Acq: 21 Oct 2025 14:00

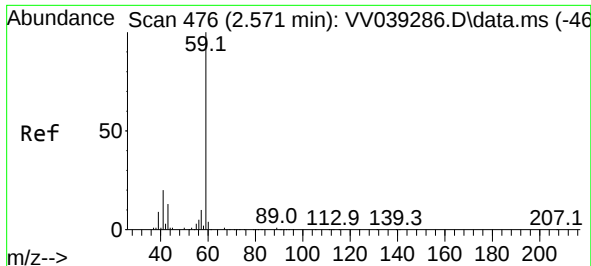
Tgt Ion: 64 Resp: 472

Ion Ratio Lower Upper

64 100

66 5.2 25.7 38.5#

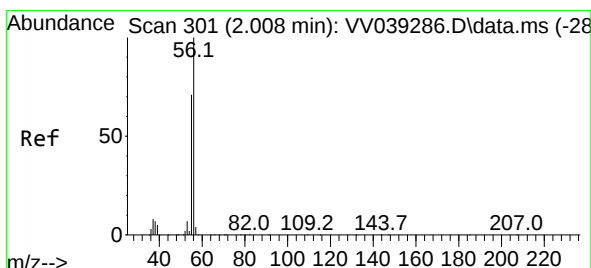
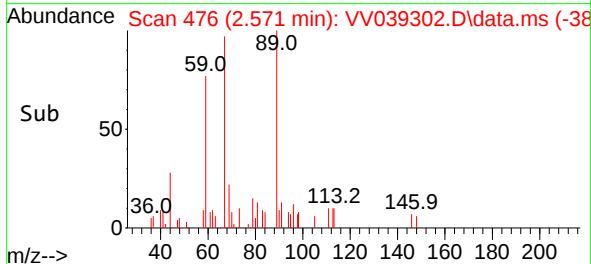
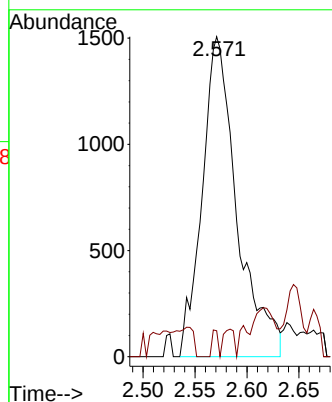
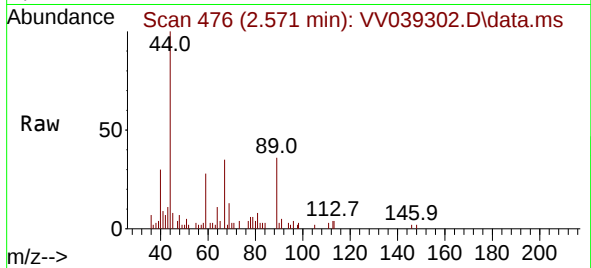




#11
Tert butyl alcohol
Concen: 1.763 ug/l
RT: 2.571 min Scan# 41
Delta R.T. 0.000 min
Lab File: VV039302.D
Acq: 21 Oct 2025 14:00

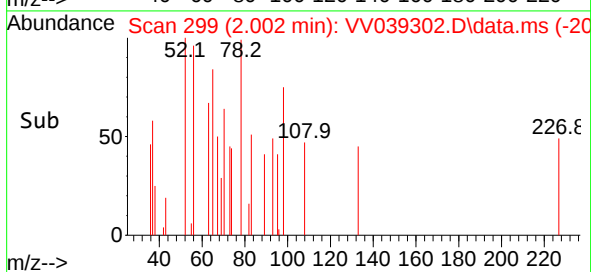
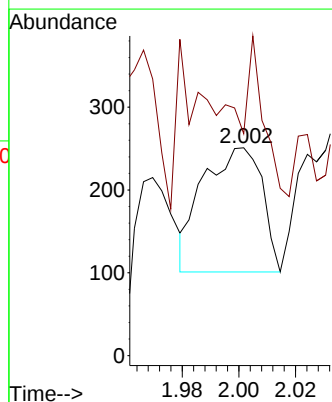
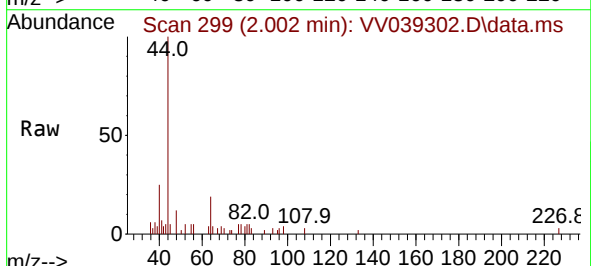
Instrument :
MSVOA_V
ClientSampleId :
4160DL

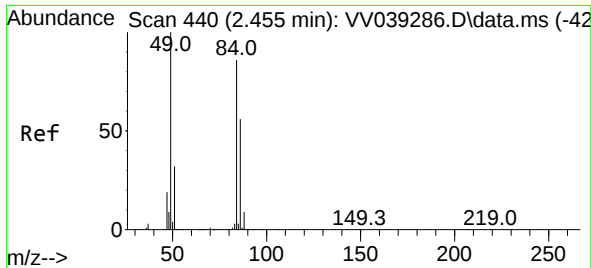
Tgt Ion: 59 Resp: 3513
Ion Ratio Lower Upper
59 100
57 1.4 8.1 12.1#



#13
Acrolein
Concen: Below Cal
RT: 2.002 min Scan# 299
Delta R.T. -0.006 min
Lab File: VV039302.D
Acq: 21 Oct 2025 14:00

Tgt Ion: 56 Resp: 217
Ion Ratio Lower Upper
56 100
55 0.0 56.2 84.4#

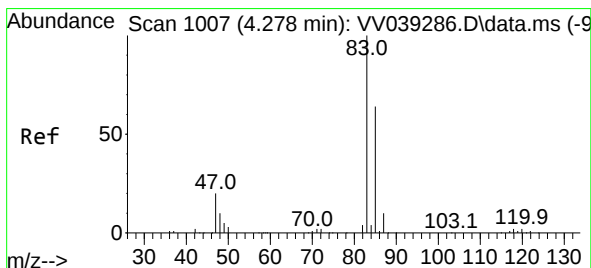
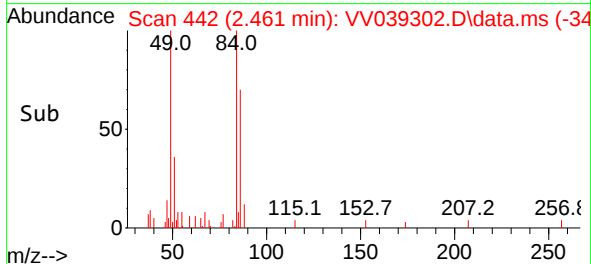
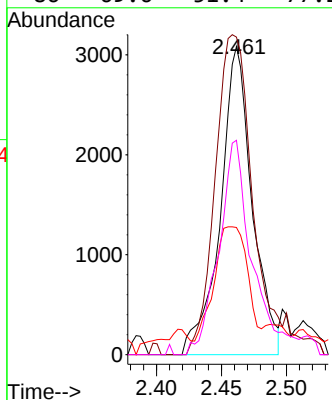
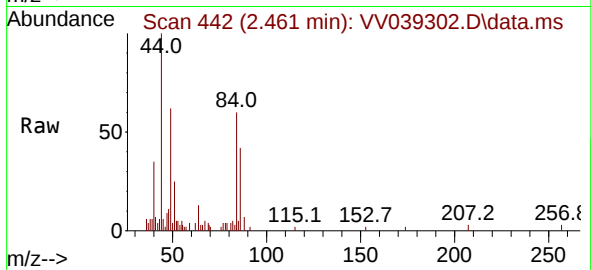




#20
Methylene Chloride
Concen: Below Cal
RT: 2.461 min Scan# 440
Delta R.T. 0.006 min
Lab File: VV039302.D
Acq: 21 Oct 2025 14:00

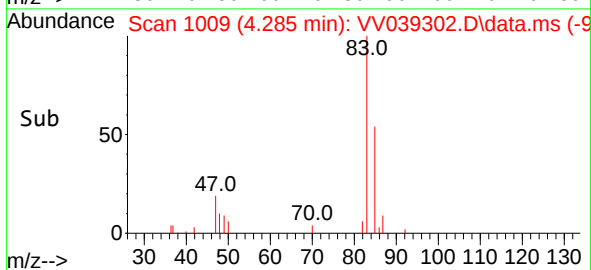
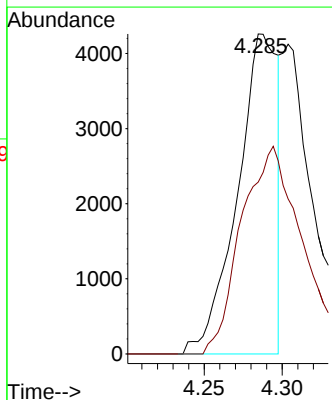
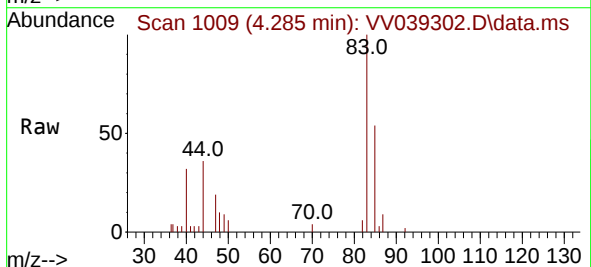
Instrument :
MSVOA_V
ClientSampleId :
4160DL

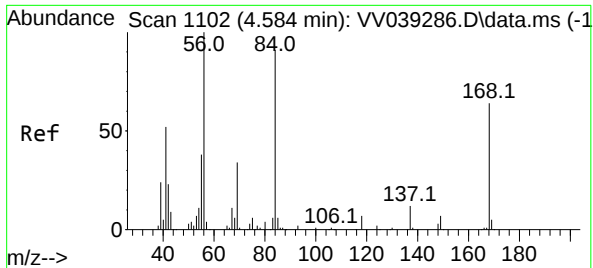
Tgt Ion:	84	Resp:	5258
Ion	Ratio	Lower	Upper
84	100		
49	103.1	92.6	139.0
51	33.1	29.6	44.4
86	69.6	51.4	77.2



#30
Chloroform
Concen: 0.400 ug/l
RT: 4.285 min Scan# 1009
Delta R.T. 0.006 min
Lab File: VV039302.D
Acq: 21 Oct 2025 14:00

Tgt Ion:	83	Resp:	7594
Ion	Ratio	Lower	Upper
83	100		
85	53.7	51.1	76.7

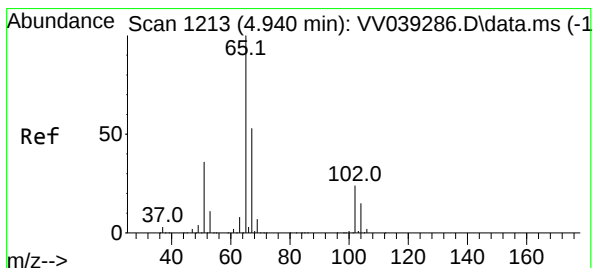
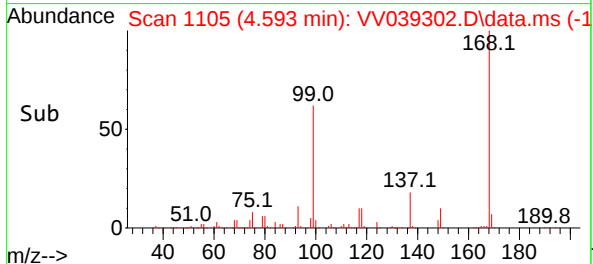
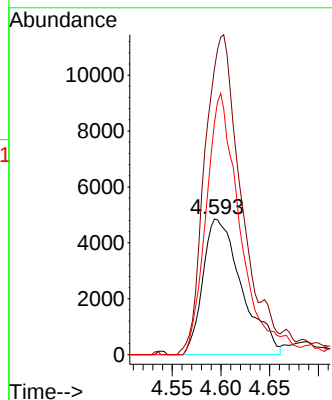
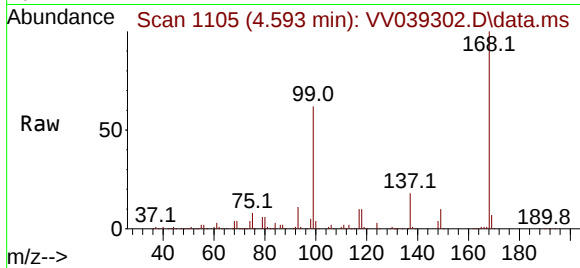




#31
Cyclohexane
Concen: 0.997 ug/l
RT: 4.593 min Scan# 1105
Delta R.T. 0.010 min
Lab File: VV039302.D
Acq: 21 Oct 2025 14:00

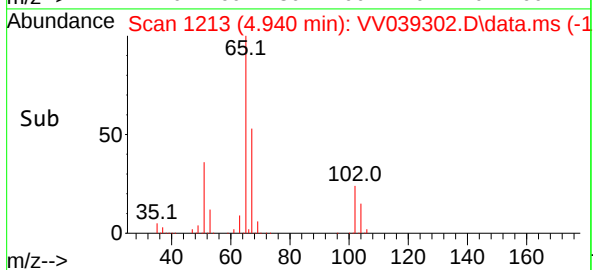
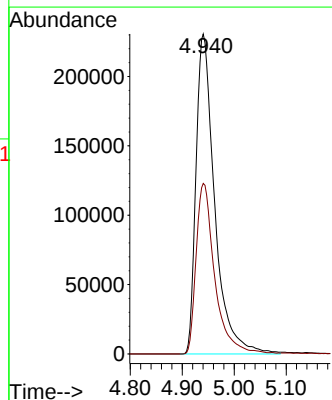
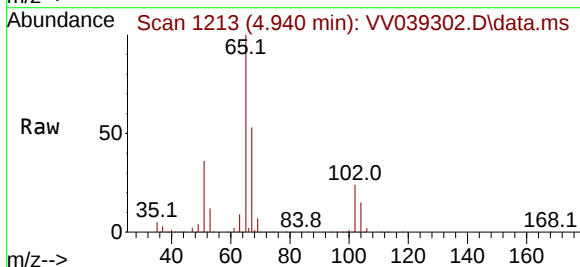
Instrument :
MSVOA_V
ClientSampleId :
4160DL

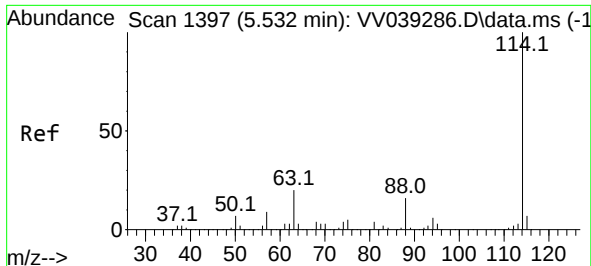
Tgt Ion: 56 Resp: 13506
Ion Ratio Lower Upper
56 100
69 208.3 27.4 41.0#
84 171.1 72.8 109.2#



#33
1,2-Dichloroethane-d4
Concen: 56.041 ug/l
RT: 4.940 min Scan# 1213
Delta R.T. 0.000 min
Lab File: VV039302.D
Acq: 21 Oct 2025 14:00

Tgt Ion: 65 Resp: 576159
Ion Ratio Lower Upper
65 100
67 53.2 0.0 108.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.532 min Scan# 11

Delta R.T. 0.000 min

Lab File: VV039302.D

Acq: 21 Oct 2025 14:00

Instrument :

MSVOA_V

ClientSampleId :

4160DL

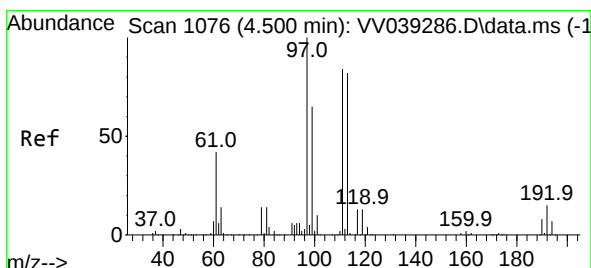
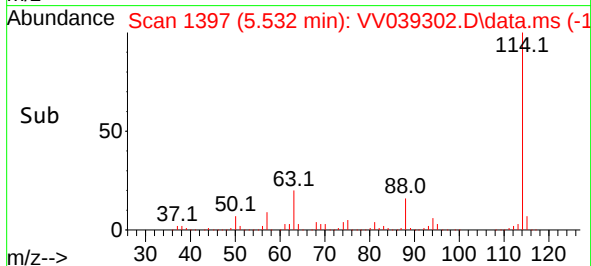
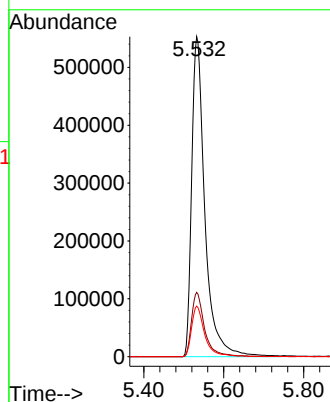
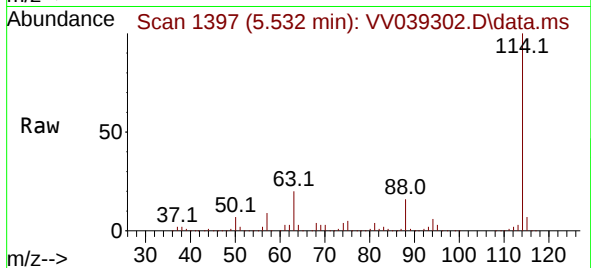
Tgt Ion:114 Resp: 1271826

Ion Ratio Lower Upper

114 100

63 20.1 0.0 39.6

88 15.8 0.0 31.6



#35

Dibromofluoromethane

Concen: 49.386 ug/l

RT: 4.503 min Scan# 1077

Delta R.T. 0.003 min

Lab File: VV039302.D

Acq: 21 Oct 2025 14:00

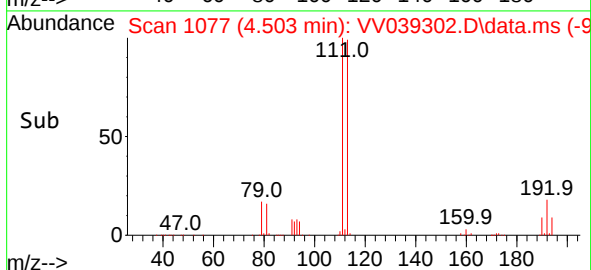
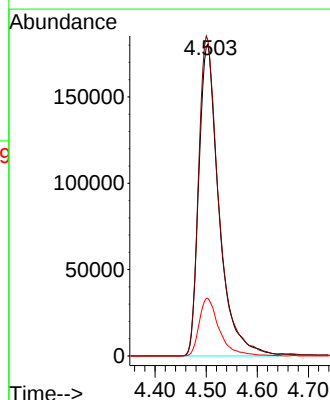
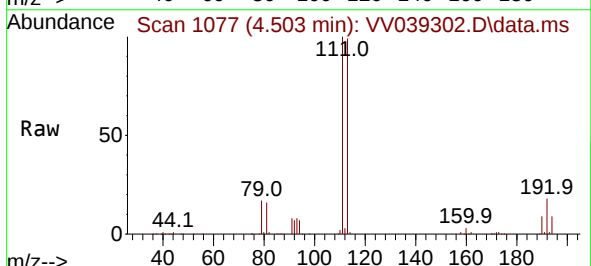
Tgt Ion:113 Resp: 494898

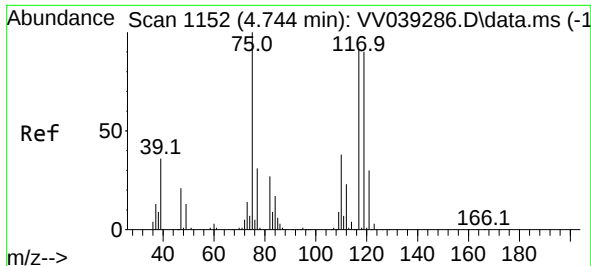
Ion Ratio Lower Upper

113 100

111 102.9 82.0 123.0

192 18.3 14.3 21.5

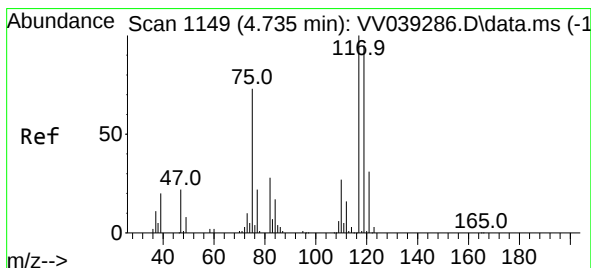
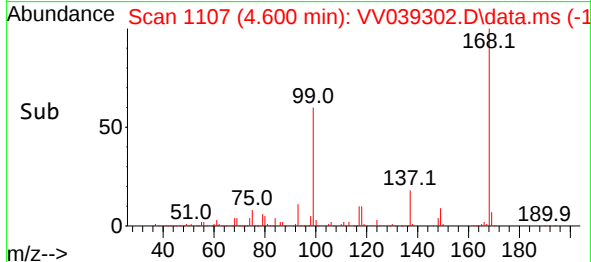
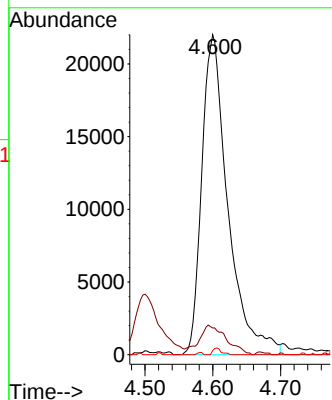
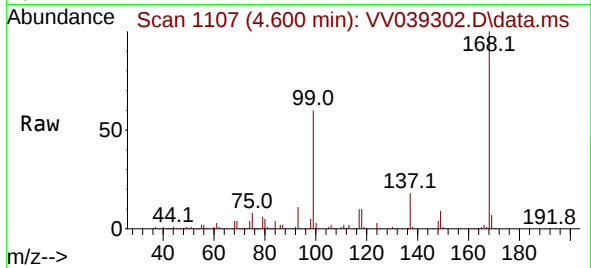




#36
1,1-Dichloropropene
Concen: 4.680 ug/l
RT: 4.600 min Scan# 1107
Delta R.T. -0.145 min
Lab File: VV039302.D
Acq: 21 Oct 2025 14:00

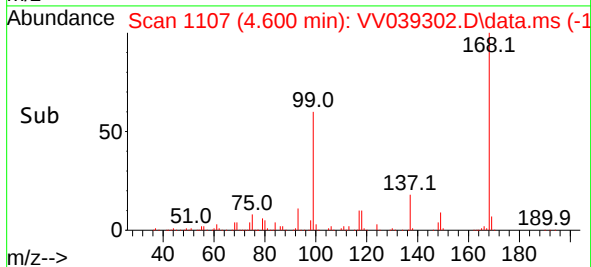
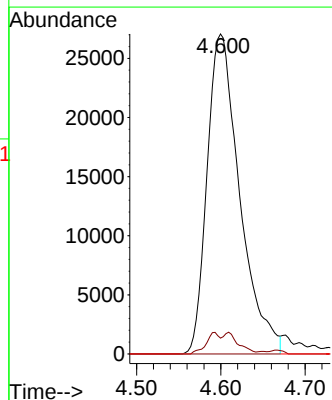
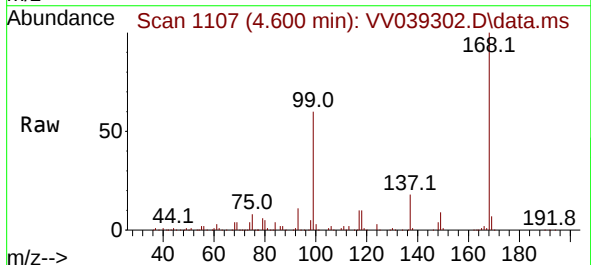
Instrument :
MSVOA_V
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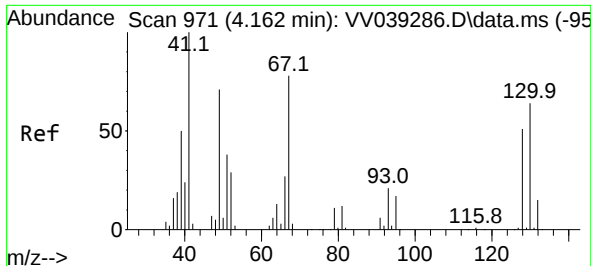
Tgt Ion: 75 Resp: 58906
Ion Ratio Lower Upper
75 100
110 9.7 18.9 56.7#
77 0.7 24.1 36.1#



#38
Carbon Tetrachloride
Concen: 4.754 ug/l
RT: 4.600 min Scan# 1107
Delta R.T. -0.135 min
Lab File: VV039302.D
Acq: 21 Oct 2025 14:00

Tgt Ion: 117 Resp: 72896
Ion Ratio Lower Upper
117 100
119 5.0 75.9 113.9#
121 0.0 24.6 37.0#

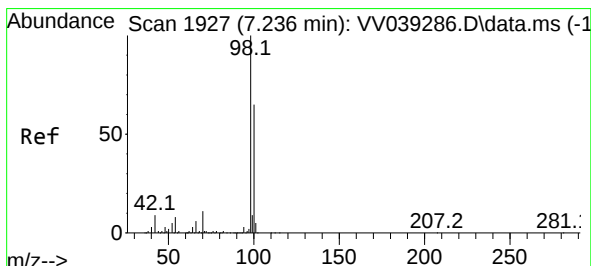
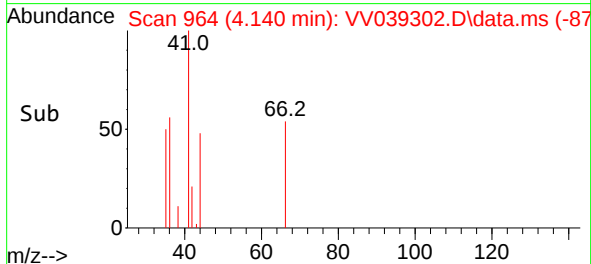
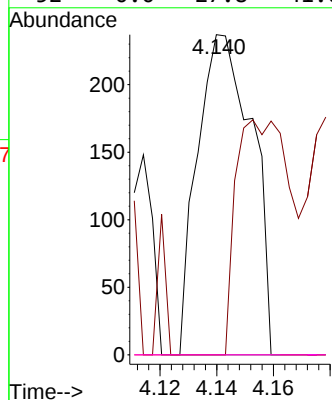
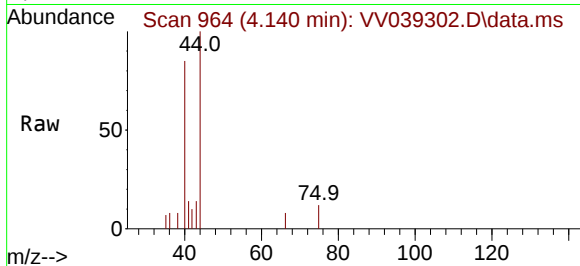




#41
Methacrylonitrile
Concen: 1.740 ug/l
RT: 4.140 min Scan# 90
Delta R.T. -0.022 min
Lab File: VV039302.D
Acq: 21 Oct 2025 14:00

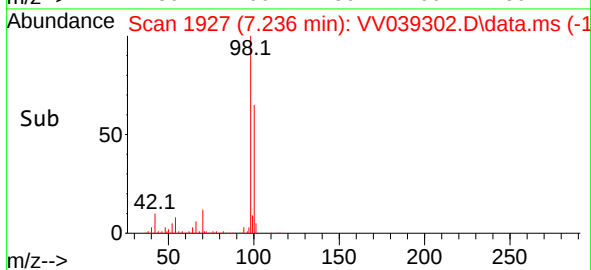
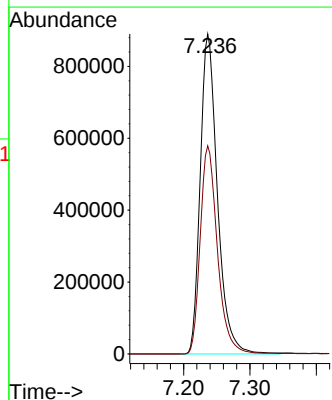
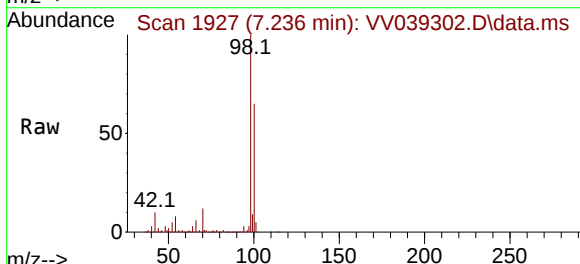
Instrument :
MSVOA_V
ClientSampleId :
4160DL

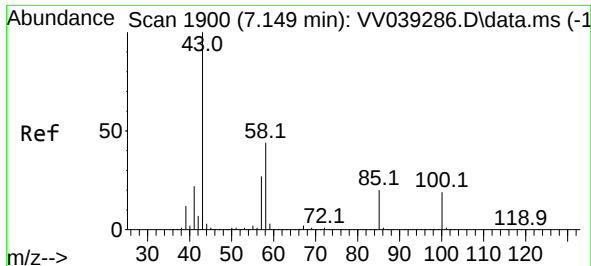
Tgt Ion: 41	Resp: 316
Ion Ratio	Lower Upper
41	100
39	73.1 40.9 61.3#
67	0.0 73.1 109.7#
52	0.0 27.8 41.6#



#50
Toluene-d8
Concen: 46.951 ug/l
RT: 7.236 min Scan# 1927
Delta R.T. 0.000 min
Lab File: VV039302.D
Acq: 21 Oct 2025 14:00

Tgt Ion: 98	Resp: 1600610
Ion Ratio	Lower Upper
98	100
100	65.2 52.8 79.2

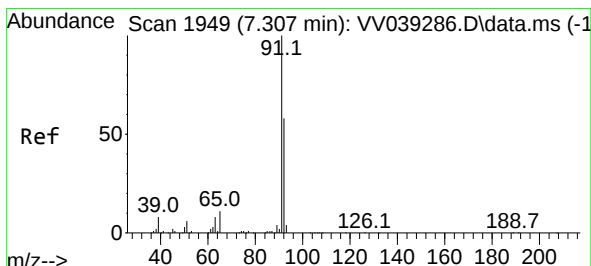
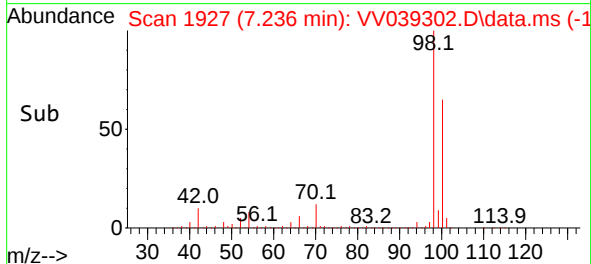
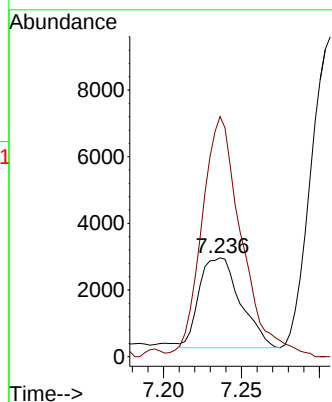
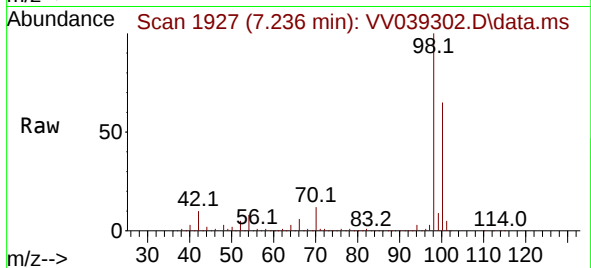




#51
4-Methyl-2-Pentanone
Concen: 0.369 ug/l
RT: 7.236 min Scan# 1900
Delta R.T. 0.087 min
Lab File: VV039302.D
Acq: 21 Oct 2025 14:00

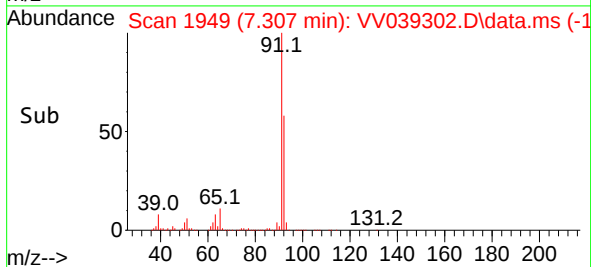
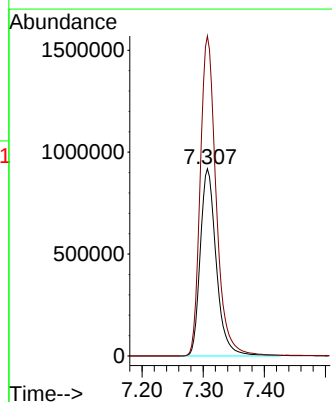
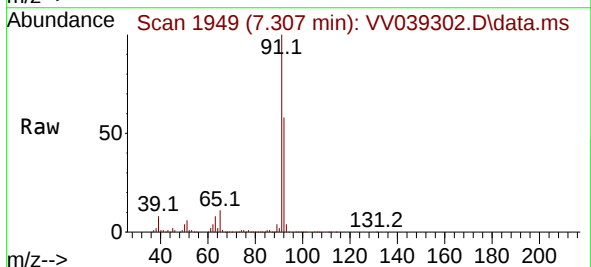
Instrument :
MSVOA_V
ClientSampleId :
4160DL

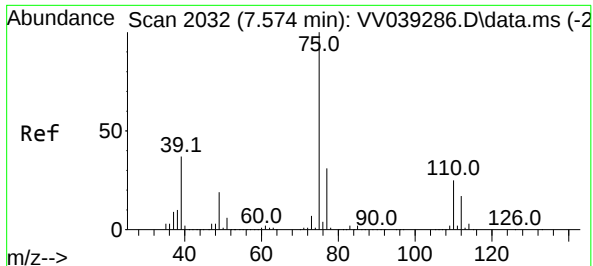
Tgt Ion: 43 Resp: 4939
Ion Ratio Lower Upper
43 100
58 259.5 34.2 51.4#



#52
Toluene
Concen: 68.561 ug/l
RT: 7.307 min Scan# 1949
Delta R.T. 0.000 min
Lab File: VV039302.D
Acq: 21 Oct 2025 14:00

Tgt Ion: 92 Resp: 1671935
Ion Ratio Lower Upper
92 100
91 170.5 137.3 205.9





#53

t-1,3-Dichloropropene

Concen: 1.353 ug/l

RT: 7.304 min Scan# 1948

Delta R.T. -0.270 min

Lab File: VV039302.D

Acq: 21 Oct 2025 14:00

Instrument :

MSVOA_V

ClientSampleId :

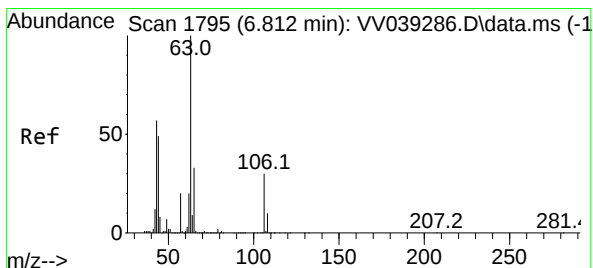
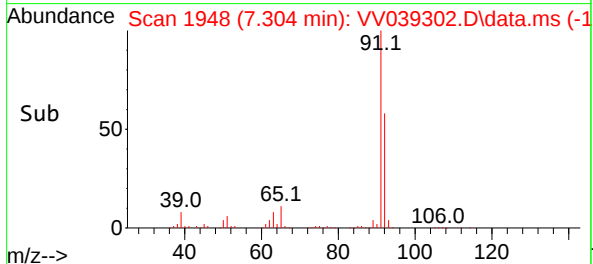
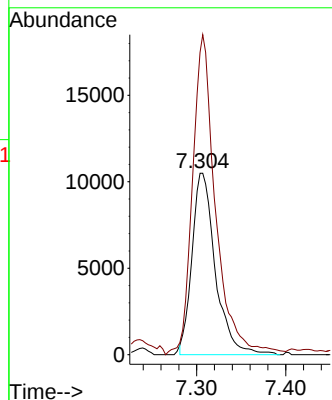
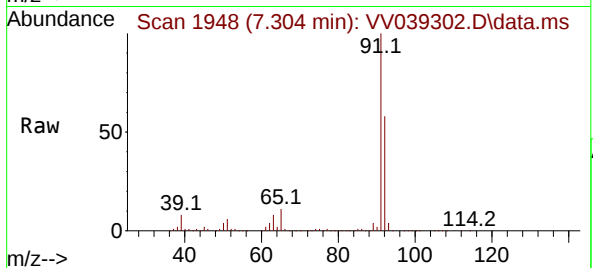
4160DL

Tgt Ion: 75 Resp: 19141

Ion Ratio Lower Upper

75 100

77 164.4 25.1 37.7#



#58

2-Chloroethyl Vinyl ether

Concen: 8.476 ug/l

RT: 6.805 min Scan# 1793

Delta R.T. -0.006 min

Lab File: VV039302.D

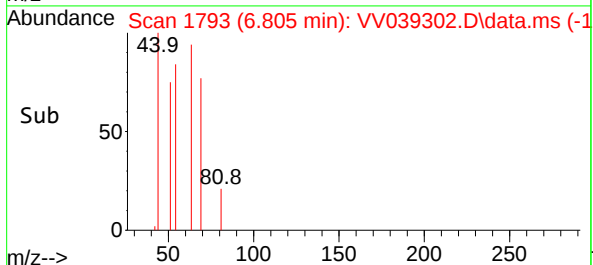
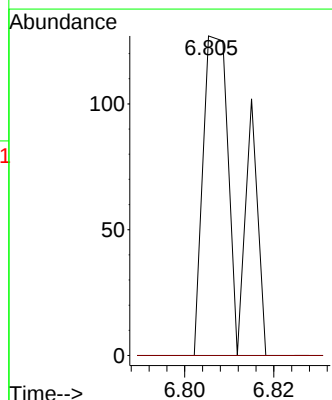
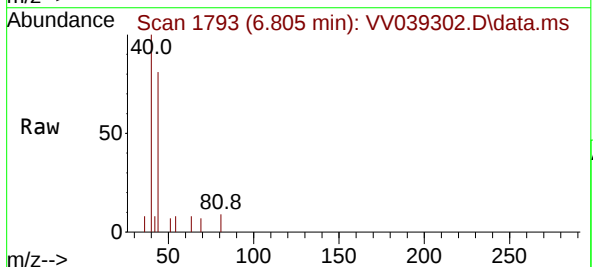
Acq: 21 Oct 2025 14:00

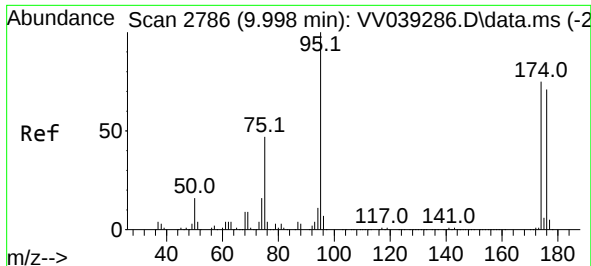
Tgt Ion: 63 Resp: 68

Ion Ratio Lower Upper

63 100

106 0.0 23.5 35.3#

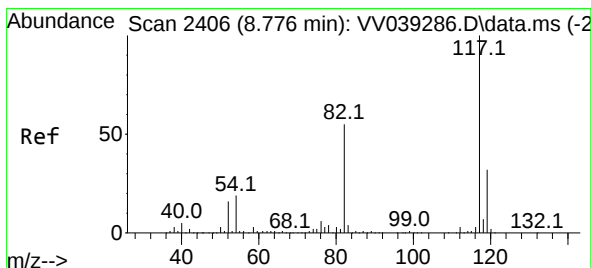
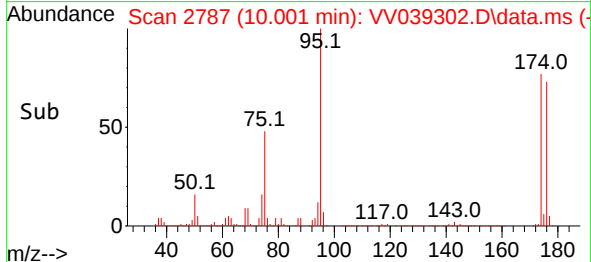
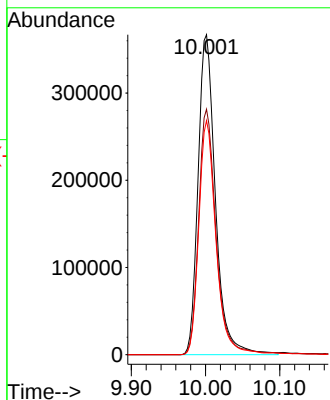
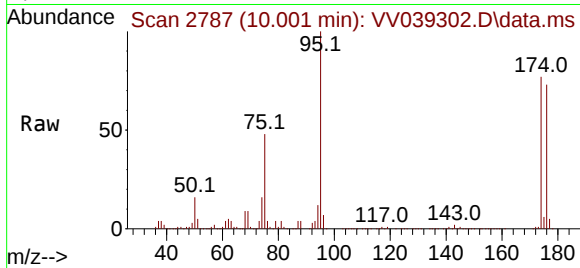




#62
4-Bromofluorobenzene
Concen: 49.235 ug/l
RT: 10.001 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV039302.D
Acq: 21 Oct 2025 14:00

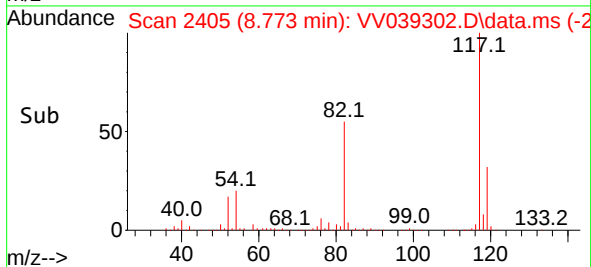
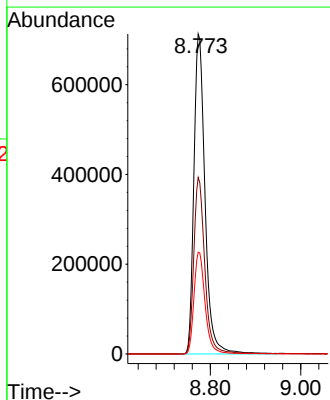
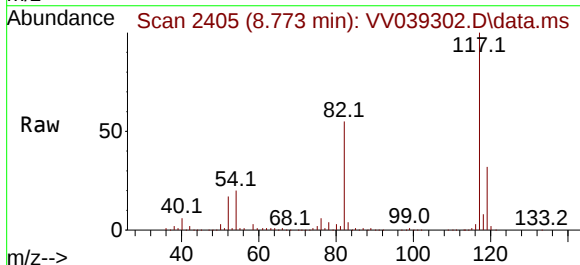
Instrument :
MSVOA_V
ClientSampleId :
4160DL

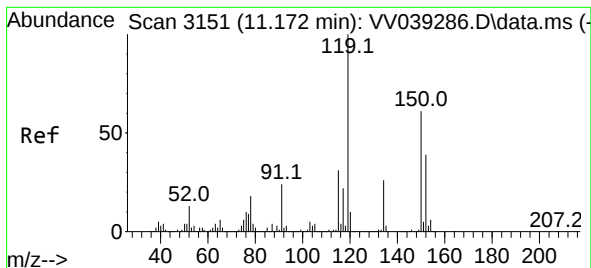
Tgt Ion: 95 Resp: 597776
Ion Ratio Lower Upper
95 100
174 77.4 0.0 153.6
176 72.2 0.0 146.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.773 min Scan# 2405
Delta R.T. -0.003 min
Lab File: VV039302.D
Acq: 21 Oct 2025 14:00

Tgt Ion: 117 Resp: 1215647
Ion Ratio Lower Upper
117 100
82 55.1 43.8 65.8
119 31.8 25.8 38.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.172 min Scan# 3151

Delta R.T. 0.000 min

Lab File: VV039302.D

Acq: 21 Oct 2025 14:00

Instrument :

MSVOA_V

ClientSampleId :

4160DL

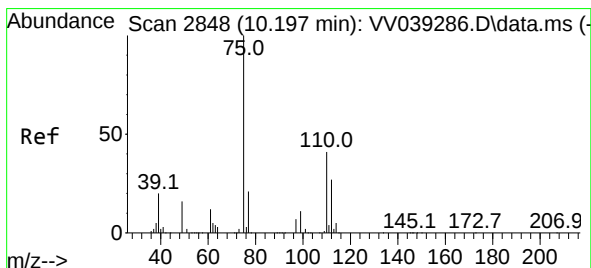
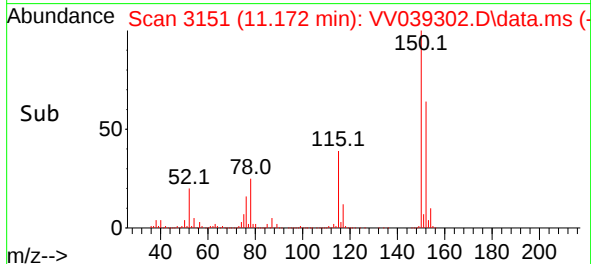
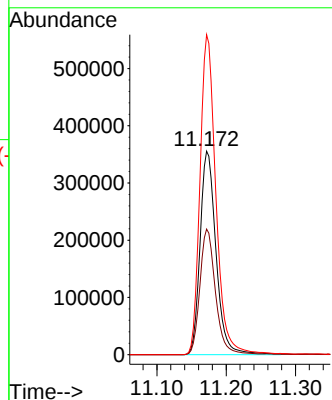
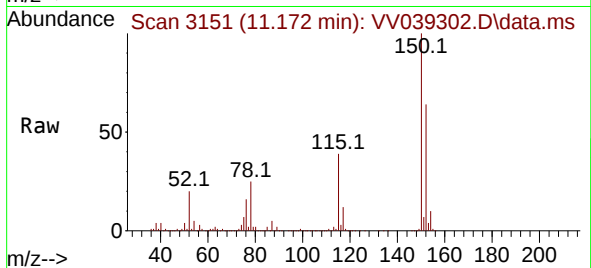
Tgt Ion:152 Resp: 569982

Ion Ratio Lower Upper

152 100

115 60.3 42.3 126.8

150 156.5 0.0 348.0



#76

1,2,3-Trichloropropane

Concen: 25.437 ug/l

RT: 10.001 min Scan# 2787

Delta R.T. -0.196 min

Lab File: VV039302.D

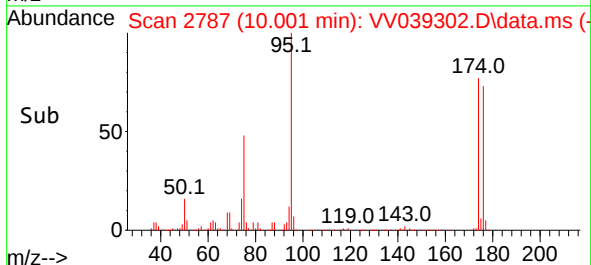
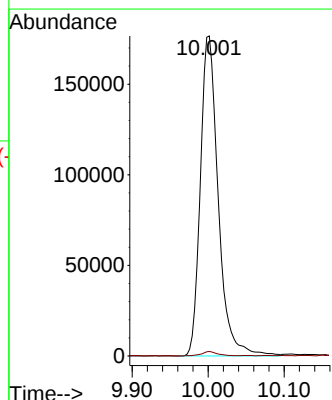
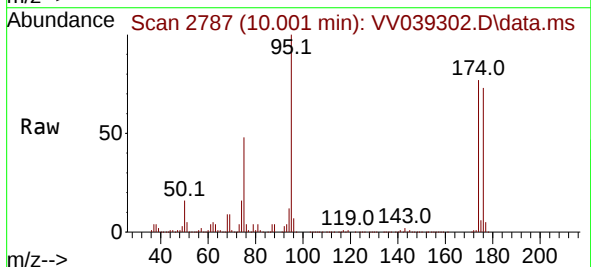
Acq: 21 Oct 2025 14:00

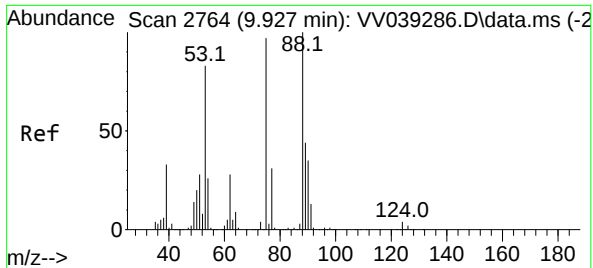
Tgt Ion: 75 Resp: 289378

Ion Ratio Lower Upper

75 100

77 1.3 12.2 36.4#





#81
trans-1,4-Dichloro-2-butene
Concen: 64.241 ug/l
RT: 10.001 min Scan# 21
Delta R.T. 0.074 min
Lab File: VV039302.D
Acq: 21 Oct 2025 14:00

Instrument :
MSVOA_V
ClientSampleId :
4160DL

Tgt Ion: 75 Resp: 289378
Ion Ratio Lower Upper
75 100
53 0.2 69.9 104.9#
89 0.0 37.4 56.0#

