

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV082125\
 Data File : VV038997.D
 Acq On : 21 Aug 2025 21:28
 Operator : SY/MD
 Sample : Q2924-01
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Aug 22 04:39:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 04:15:04 2025
 Response via : Initial Calibration

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

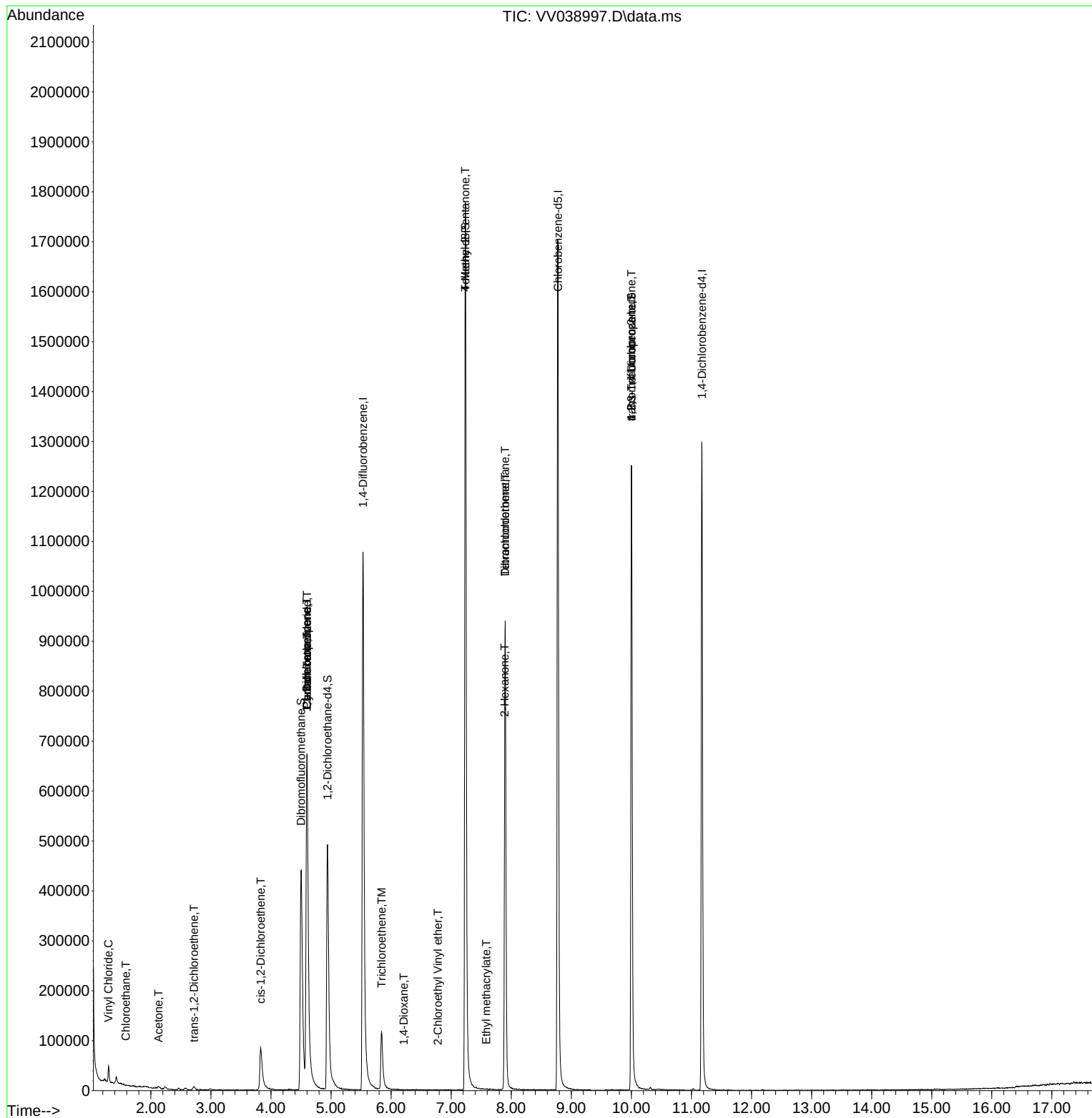
Internal Standards						
1) Pentafluorobenzene	4.600	168	584771	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.532	114	1064789	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	974990	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.175	152	354625	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.941	65	449258	54.752	ug/l	0.00
Spiked Amount	50.000	Range	81 - 118	Recovery	=	109.500%
35) Dibromofluoromethane	4.503	113	371568	46.531	ug/l	0.00
Spiked Amount	50.000	Range	80 - 119	Recovery	=	93.060%
50) Toluene-d8	7.236	98	1252694	44.987	ug/l	0.00
Spiked Amount	50.000	Range	89 - 112	Recovery	=	89.980%
62) 4-Bromofluorobenzene	10.001	95	425018	41.723	ug/l	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	=	83.440%#
Target Compounds						
					Qvalue	
4) Vinyl Chloride	1.294	62	25149	2.640	ug/l	97
6) Chloroethane	1.584	64	1135	0.234	ug/l #	58
13) Acrolein	2.005	56	98	Below Cal	#	32
16) Acetone	2.127	43	4551	1.382	ug/l #	84
21) trans-1,2-Dichloroethene	2.719	96	1561	0.226	ug/l #	80
27) cis-1,2-Dichloroethene	3.828	96	56011	6.713	ug/l	91
28) Bromochloromethane	4.143	49	44	Below Cal	#	3
31) Cyclohexane	4.600	56	12464	1.084	ug/l #	1
36) 1,1-Dichloropropene	4.596	75	45563	4.394	ug/l #	47
38) Carbon Tetrachloride	4.600	117	60334	4.345	ug/l #	16
44) Trichloroethene	5.841	130	47990	5.447	ug/l	88
49) 1,4-Dioxane	6.211	88	80	0.690	ug/l #	32
51) 4-Methyl-2-Pentanone	7.236	43	4203	0.414	ug/l #	1
56) Ethyl methacrylate	7.583	69	90	2.321	ug/l #	20
58) 2-Chloroethyl Vinyl ether	6.776	63	43	4.991	ug/l #	74
59) 2-Hexanone	7.889	43	80	10.905	ug/l	83
60) Dibromochloromethane	7.899	129	205265	18.953	ug/l #	11
64) Tetrachloroethene	7.899	164	216885	29.895	ug/l	99
76) 1,2,3-Trichloropropane	10.001	75	214465	32.604	ug/l #	56
81) trans-1,4-Dichloro-2-b...	10.001	75	214465	74.856	ug/l #	14

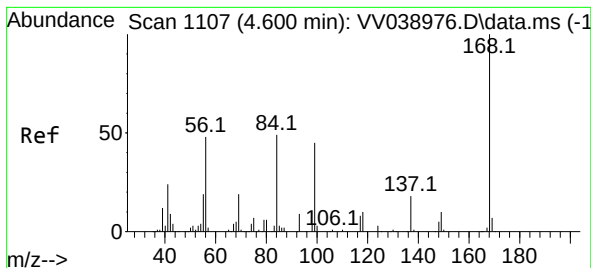
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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Response via : Initial Calibration

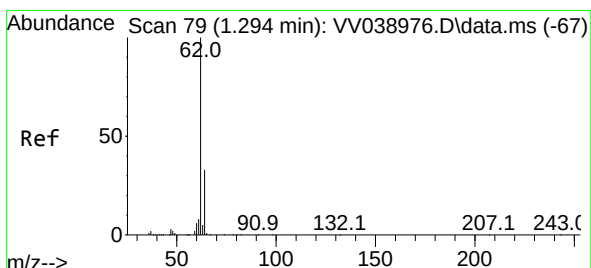
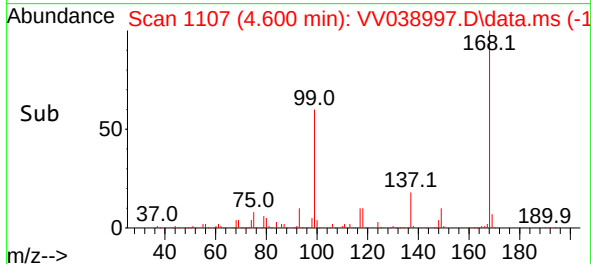
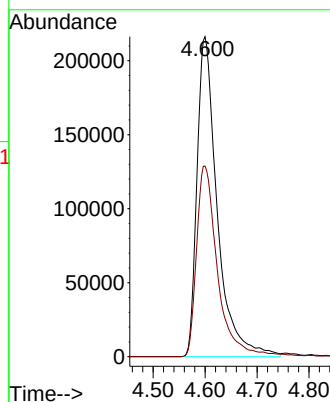
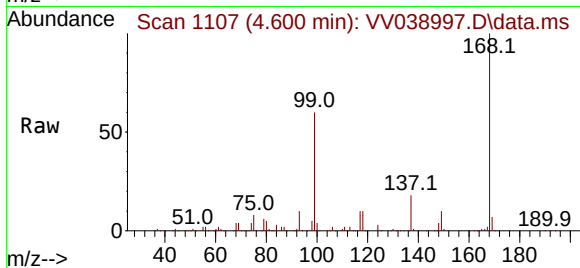




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 1107
Delta R.T. -0.000 min
Lab File: VV038997.D
Acq: 21 Aug 2025 21:28

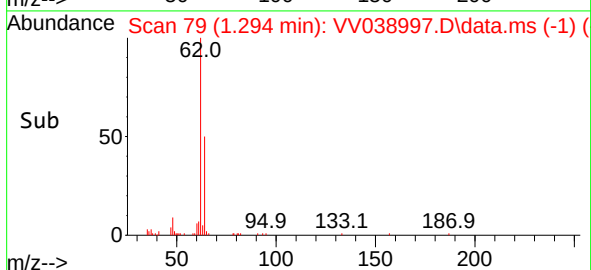
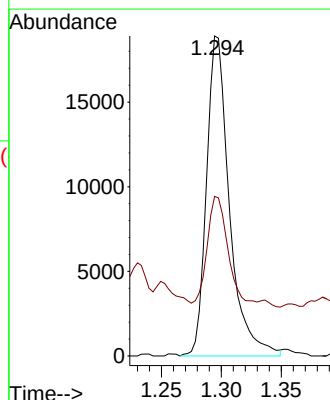
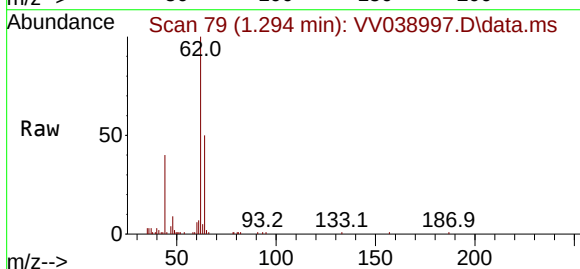
Instrument :
MSVOA_V
ClientSampleId :

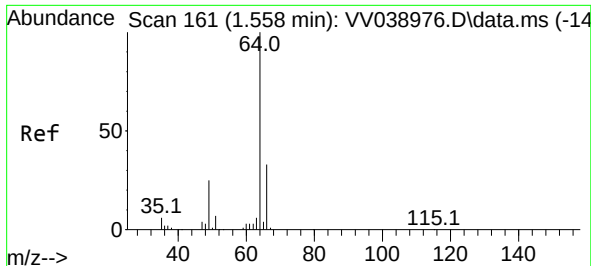
Tgt Ion:168 Resp: 584771
Ion Ratio Lower Upper
168 100
99 59.6 47.0 70.6



#4
Vinyl Chloride
Concen: 2.640 ug/l
RT: 1.294 min Scan# 79
Delta R.T. -0.000 min
Lab File: VV038997.D
Acq: 21 Aug 2025 21:28

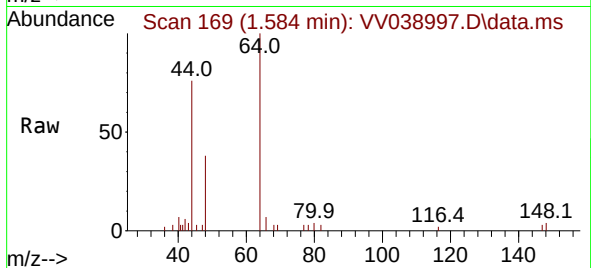
Tgt Ion: 62 Resp: 25149
Ion Ratio Lower Upper
62 100
64 34.6 26.4 39.6



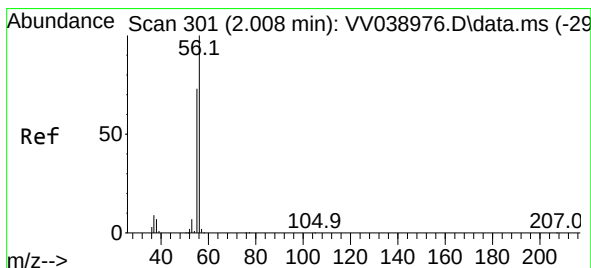
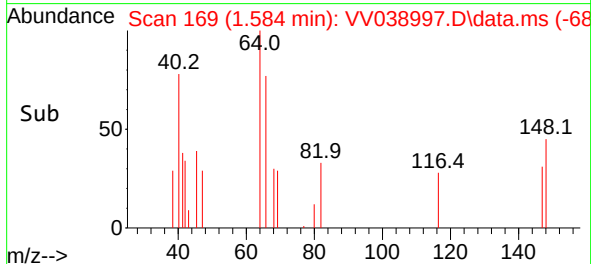
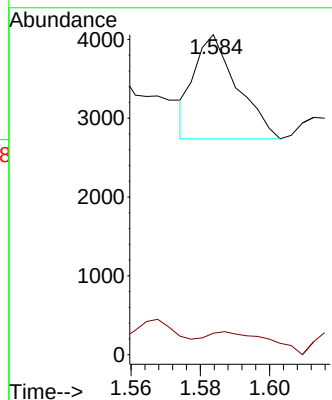


#6
Chloroethane
Concen: 0.234 ug/l
RT: 1.584 min Scan# 1
Delta R.T. 0.026 min
Lab File: VV038997.D
Acq: 21 Aug 2025 21:28

Instrument :
MSVOA_V
ClientSampleId :

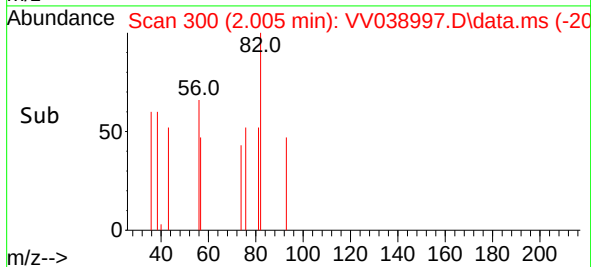
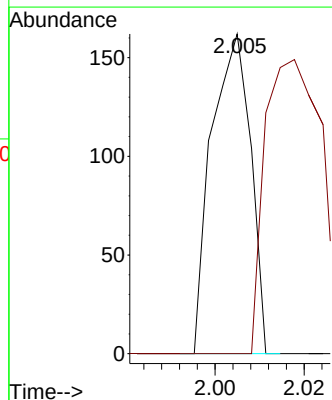
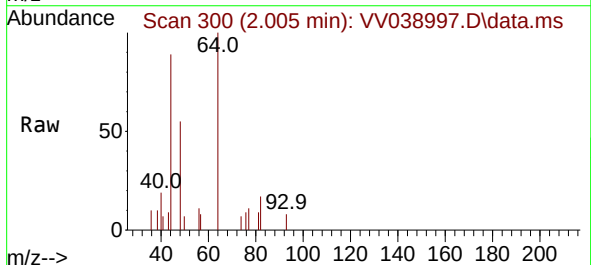


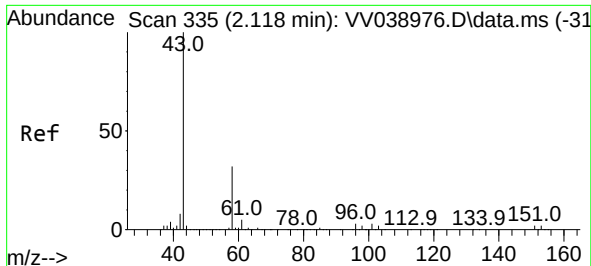
Tgt Ion: 64 Resp: 1135
Ion Ratio Lower Upper
64 100
66 9.8 26.8 40.2#



#13
Acrolein
Concen: Below Cal
RT: 2.005 min Scan# 300
Delta R.T. -0.003 min
Lab File: VV038997.D
Acq: 21 Aug 2025 21:28

Tgt Ion: 56 Resp: 98
Ion Ratio Lower Upper
56 100
55 130.6 58.8 88.2#





#16

Acetone

Concen: 1.382 ug/l

RT: 2.127 min Scan# 31

Delta R.T. 0.010 min

Lab File: VV038997.D

Acq: 21 Aug 2025 21:28

Instrument :

MSVOA_V

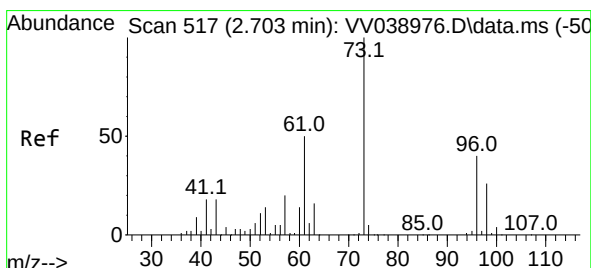
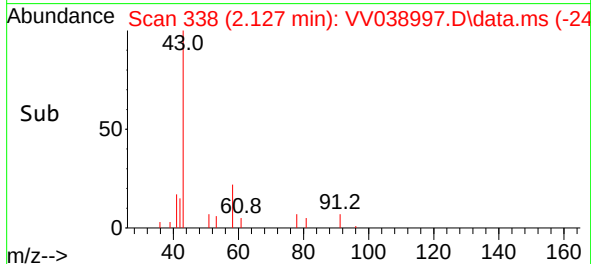
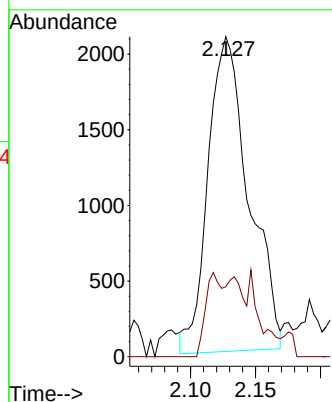
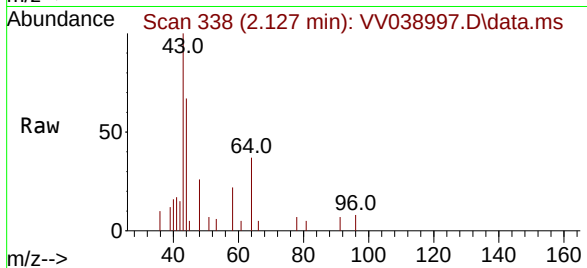
ClientSampleId :

Tgt Ion: 43 Resp: 4551

Ion Ratio Lower Upper

43 100

58 23.7 26.3 39.5#



#21

trans-1,2-Dichloroethene

Concen: 0.226 ug/l

RT: 2.719 min Scan# 522

Delta R.T. 0.016 min

Lab File: VV038997.D

Acq: 21 Aug 2025 21:28

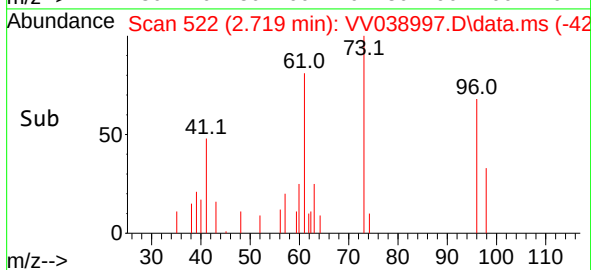
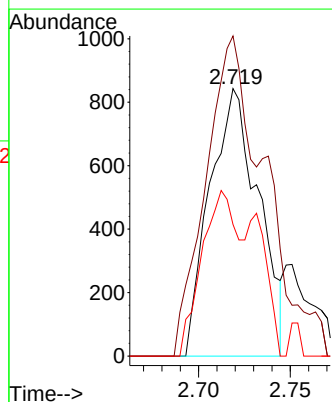
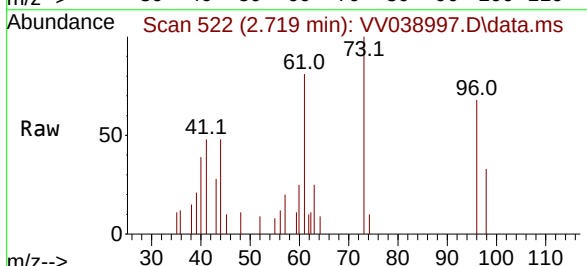
Tgt Ion: 96 Resp: 1561

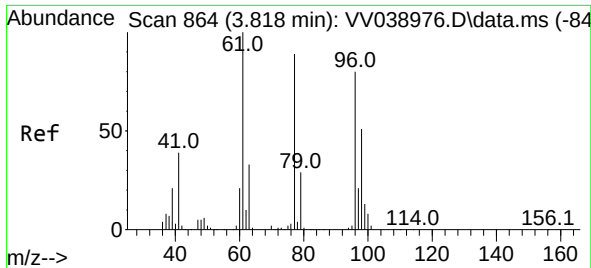
Ion Ratio Lower Upper

96 100

61 103.3 100.6 151.0

98 49.2 51.5 77.3#





#27

cis-1,2-Dichloroethene

Concen: 6.713 ug/l

RT: 3.828 min Scan# 867

Delta R.T. 0.010 min

Lab File: VV038997.D

Acq: 21 Aug 2025 21:28

Instrument :

MSVOA_V

ClientSampleId :

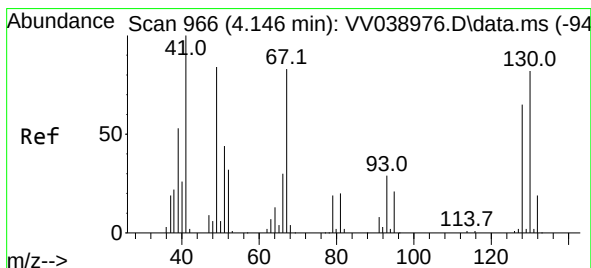
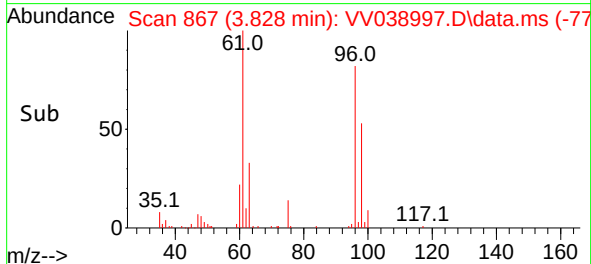
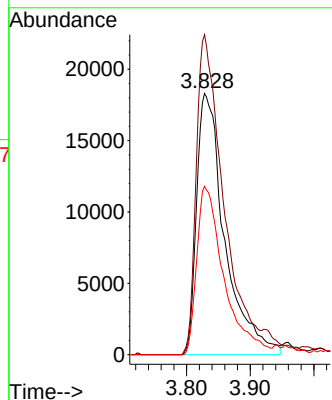
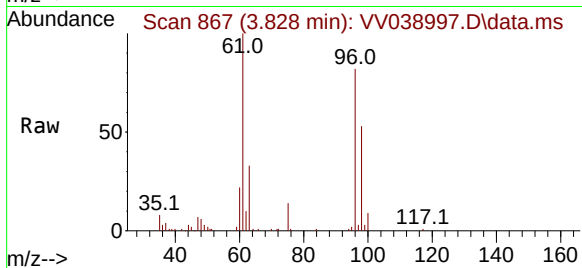
Tgt Ion: 96 Resp: 56011

Ion Ratio Lower Upper

96 100

61 118.9 0.0 264.4

98 62.6 0.0 131.8



#28

Bromochloromethane

Concen: Below Cal

RT: 4.143 min Scan# 965

Delta R.T. -0.003 min

Lab File: VV038997.D

Acq: 21 Aug 2025 21:28

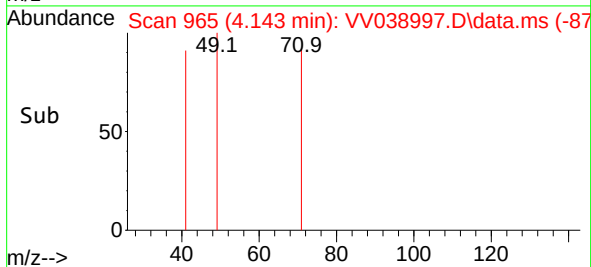
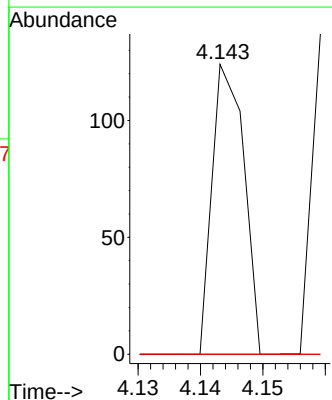
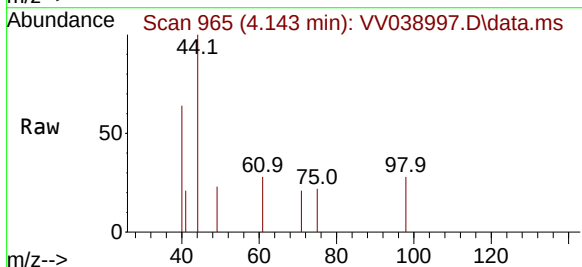
Tgt Ion: 49 Resp: 44

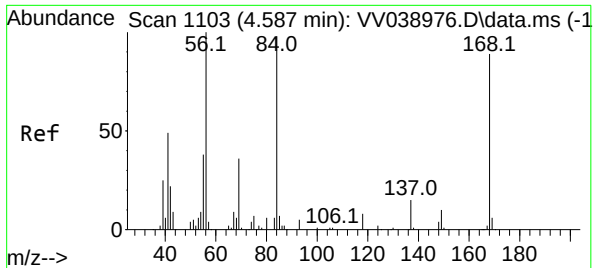
Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.2

130 0.0 78.2 117.2#

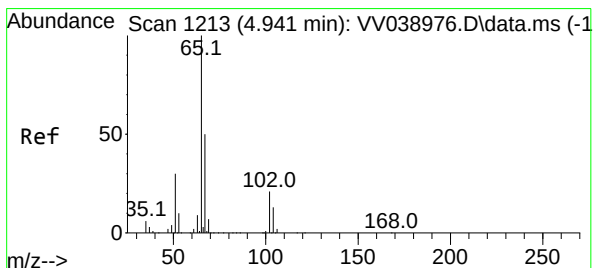
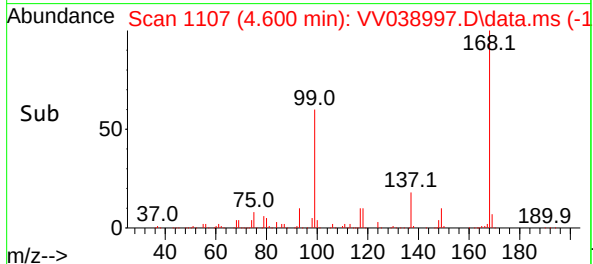
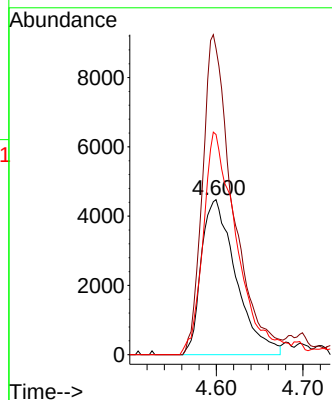
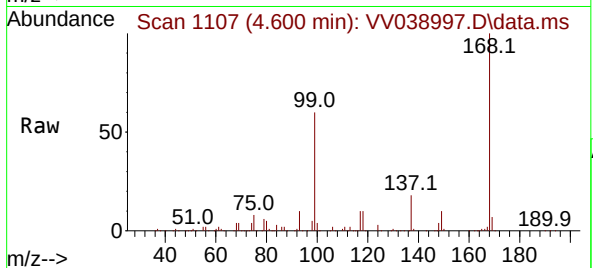




#31
Cyclohexane
Concen: 1.084 ug/l
RT: 4.600 min Scan# 1103
Delta R.T. 0.013 min
Lab File: VV038997.D
Acq: 21 Aug 2025 21:28

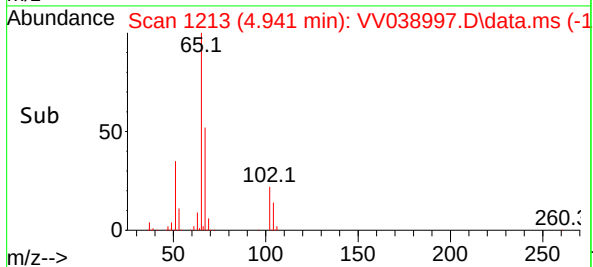
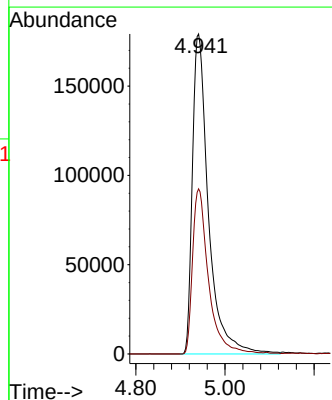
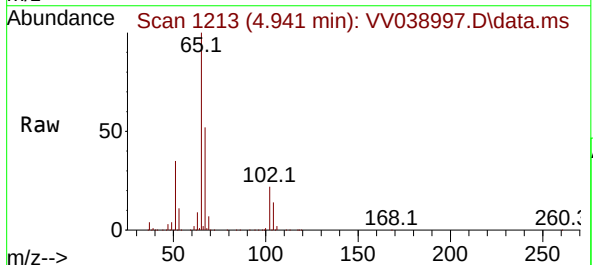
Instrument :
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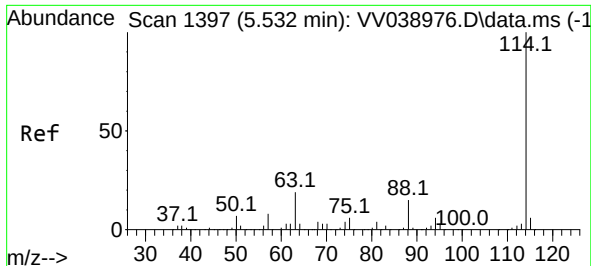
Tgt Ion: 56 Resp: 12464
Ion Ratio Lower Upper
56 100
69 197.3 28.6 42.8#
84 141.9 78.1 117.1#



#33
1,2-Dichloroethane-d4
Concen: 54.752 ug/l
RT: 4.941 min Scan# 1213
Delta R.T. -0.000 min
Lab File: VV038997.D
Acq: 21 Aug 2025 21:28

Tgt Ion: 65 Resp: 449258
Ion Ratio Lower Upper
65 100
67 51.3 0.0 100.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.532 min Scan# 11

Delta R.T. -0.000 min

Lab File: VV038997.D

Acq: 21 Aug 2025 21:28

Instrument :

MSVOA_V

ClientSampleId :

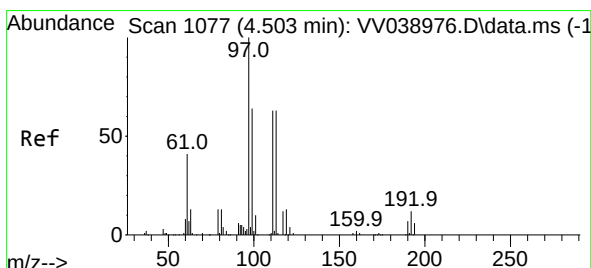
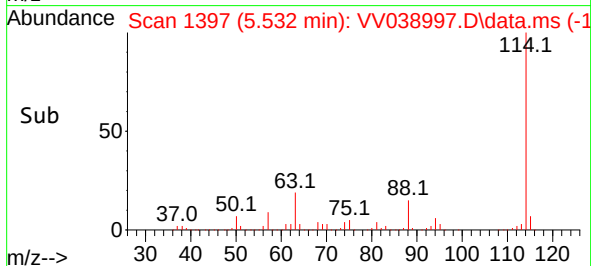
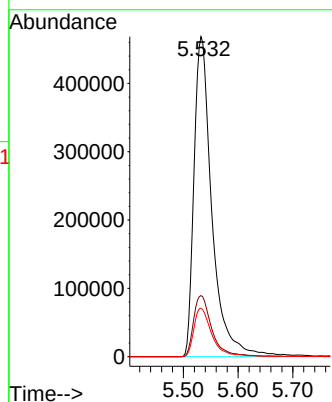
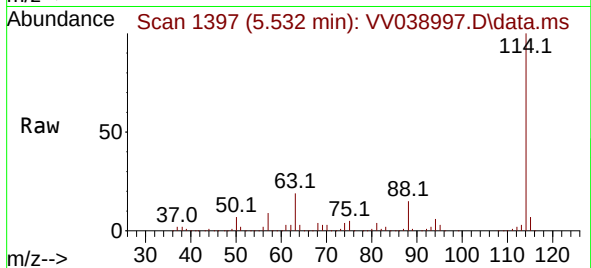
Tgt Ion:114 Resp: 1064789

Ion Ratio Lower Upper

114 100

63 19.1 0.0 37.4

88 15.2 0.0 30.4



#35

Dibromofluoromethane

Concen: 46.531 ug/l

RT: 4.503 min Scan# 1077

Delta R.T. -0.000 min

Lab File: VV038997.D

Acq: 21 Aug 2025 21:28

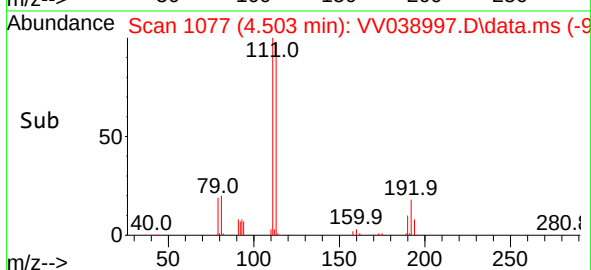
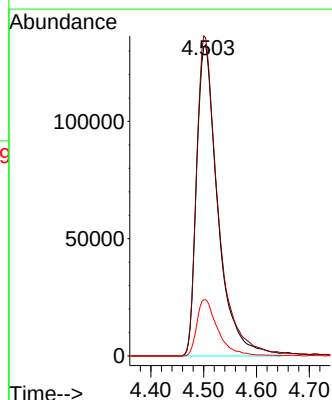
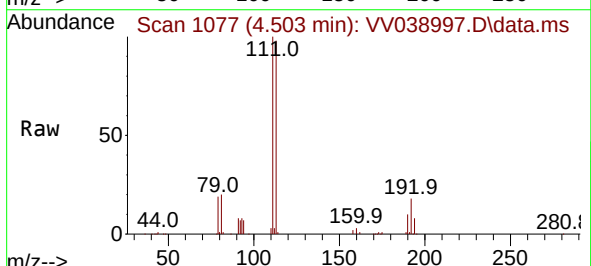
Tgt Ion:113 Resp: 371568

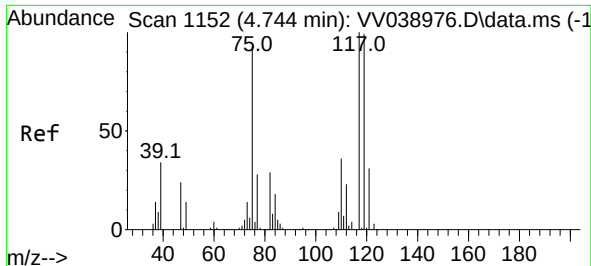
Ion Ratio Lower Upper

113 100

111 103.0 81.3 121.9

192 17.7 15.4 23.0





#36

1,1-Dichloropropene

Concen: 4.394 ug/l

RT: 4.596 min Scan# 1106

Delta R.T. -0.148 min

Lab File: VV038997.D

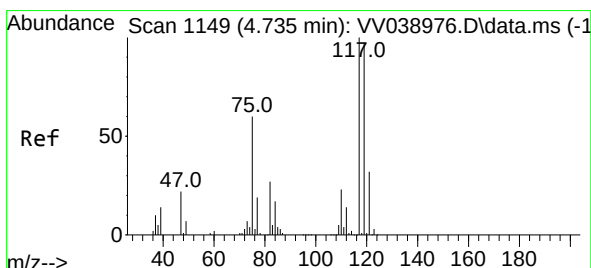
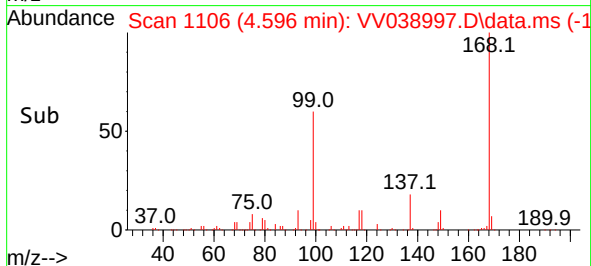
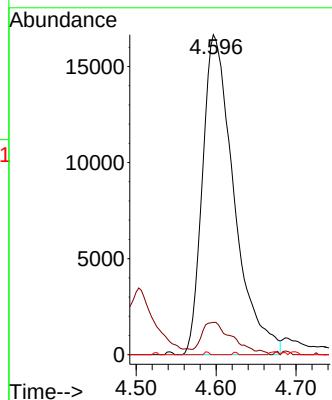
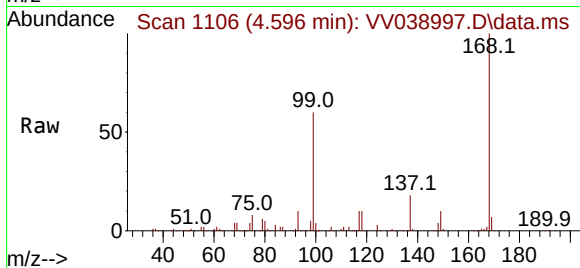
Acq: 21 Aug 2025 21:28

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion:	75	Resp:	45563
Ion	Ratio	Lower	Upper
75	100		
110	8.2	19.6	58.7#
77	0.1	24.4	36.6#



#38

Carbon Tetrachloride

Concen: 4.345 ug/l

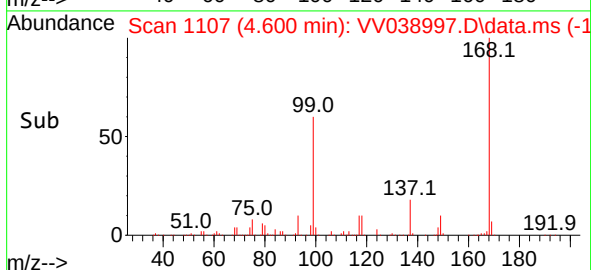
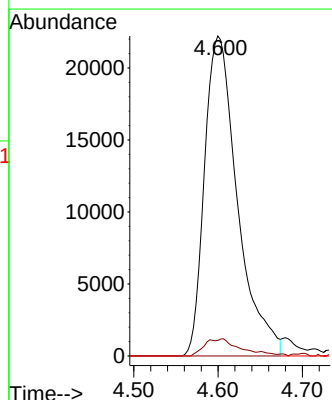
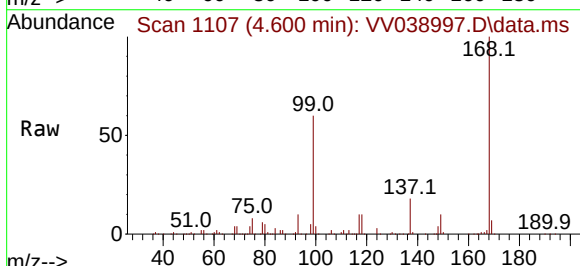
RT: 4.600 min Scan# 1107

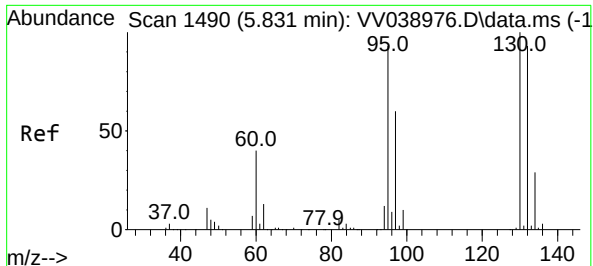
Delta R.T. -0.135 min

Lab File: VV038997.D

Acq: 21 Aug 2025 21:28

Tgt Ion:	117	Resp:	60334
Ion	Ratio	Lower	Upper
117	100		
119	4.8	77.1	115.7#
121	0.0	25.4	38.2#

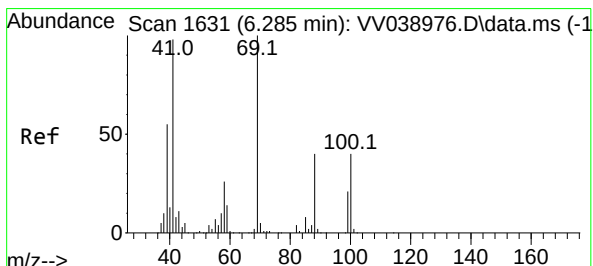
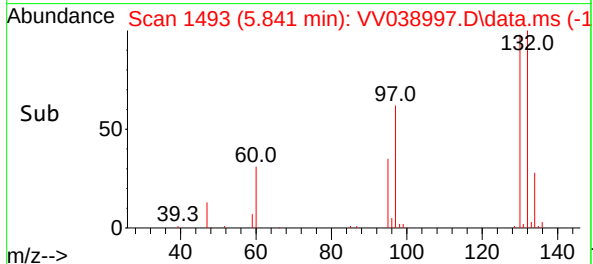
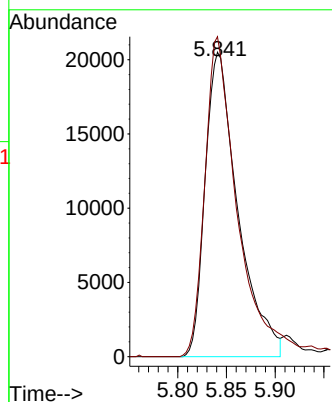
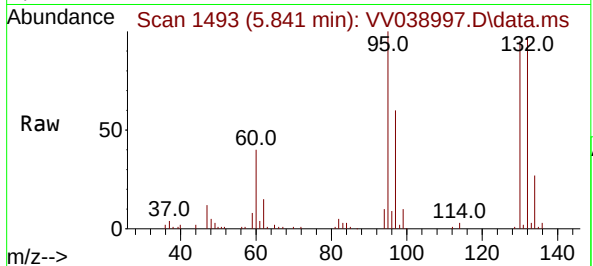




#44
 Trichloroethene
 Concen: 5.447 ug/l
 RT: 5.841 min Scan# 14
 Delta R.T. 0.010 min
 Lab File: VV038997.D
 Acq: 21 Aug 2025 21:28

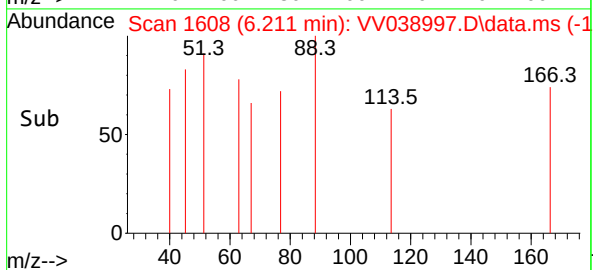
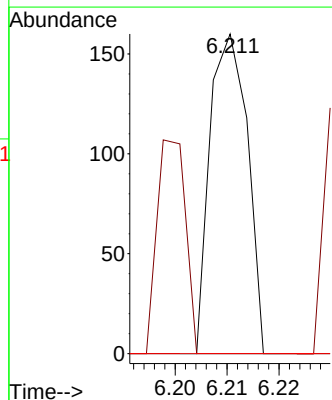
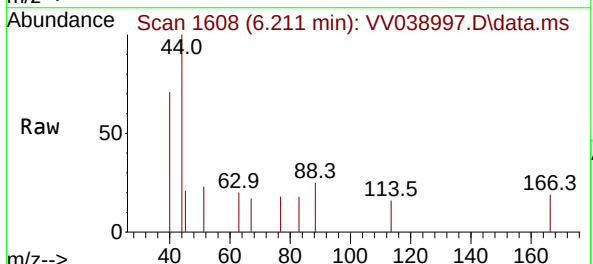
Instrument :
 MSVOA_V
 ClientSampleId :

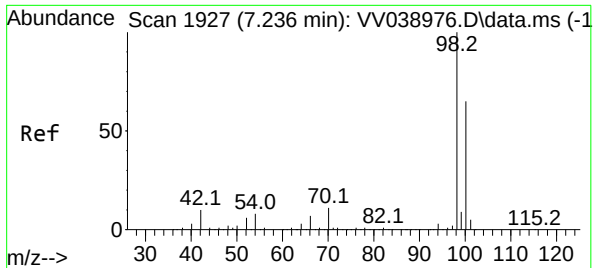
Tgt Ion:130 Resp: 47990
 Ion Ratio Lower Upper
 130 100
 95 105.1 0.0 186.6



#49
 1,4-Dioxane
 Concen: 0.690 ug/l
 RT: 6.211 min Scan# 1608
 Delta R.T. -0.074 min
 Lab File: VV038997.D
 Acq: 21 Aug 2025 21:28

Tgt Ion: 88 Resp: 80
 Ion Ratio Lower Upper
 88 100
 43 51.2 24.6 36.8#
 58 0.0 51.8 77.6#

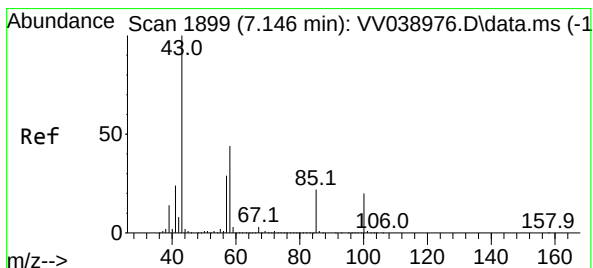
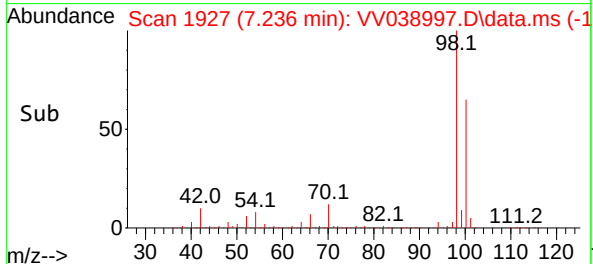
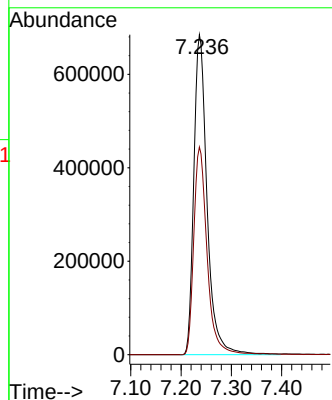
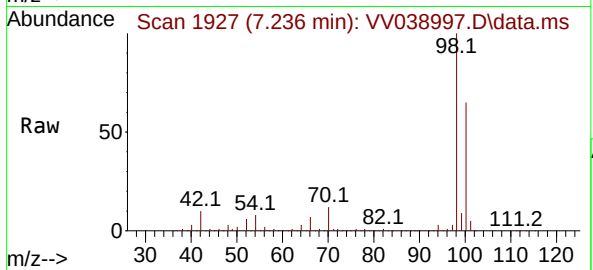




#50
Toluene-d8
Concen: 44.987 ug/l
RT: 7.236 min Scan# 1927
Delta R.T. -0.000 min
Lab File: VV038997.D
Acq: 21 Aug 2025 21:28

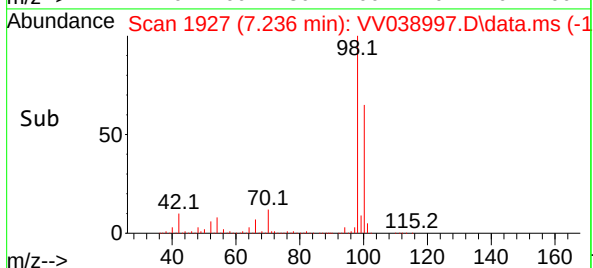
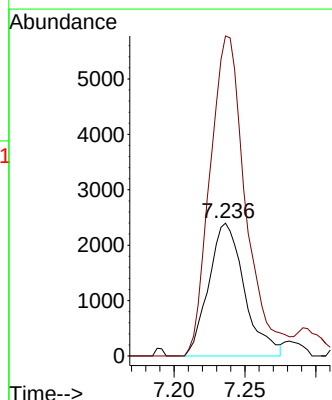
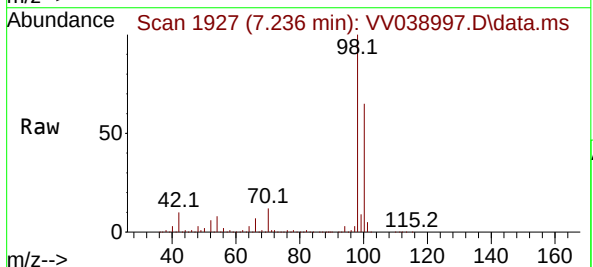
Instrument :
MSVOA_V
ClientSampleId :

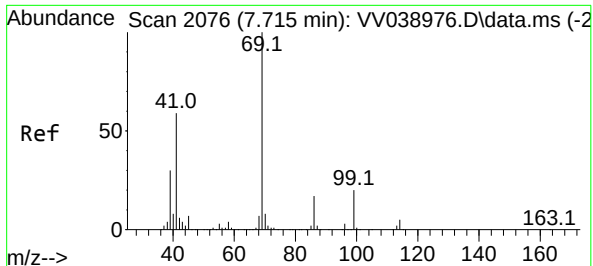
Tgt Ion: 98 Resp: 1252694
Ion Ratio Lower Upper
98 100
100 65.1 52.2 78.2



#51
4-Methyl-2-Pentanone
Concen: 0.414 ug/l
RT: 7.236 min Scan# 1927
Delta R.T. 0.090 min
Lab File: VV038997.D
Acq: 21 Aug 2025 21:28

Tgt Ion: 43 Resp: 4203
Ion Ratio Lower Upper
43 100
58 240.4 34.6 51.8#





#56

Ethyl methacrylate

Concen: 2.321 ug/l

RT: 7.583 min Scan# 2076

Delta R.T. -0.131 min

Lab File: VV038997.D

Acq: 21 Aug 2025 21:28

Instrument :

MSVOA_V

ClientSampleId :

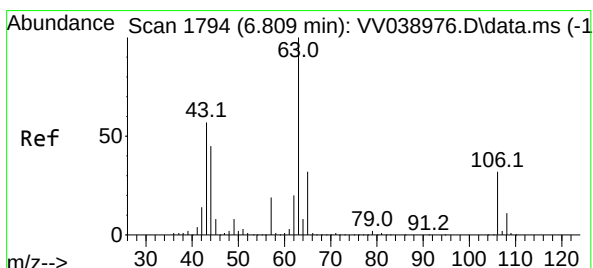
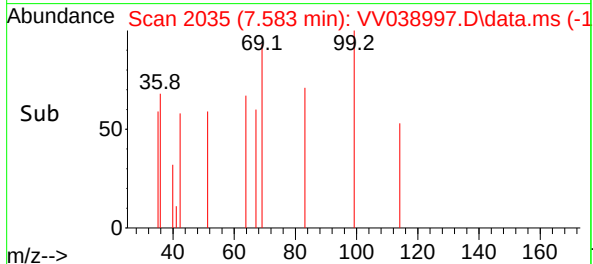
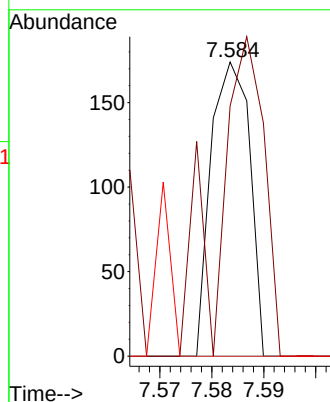
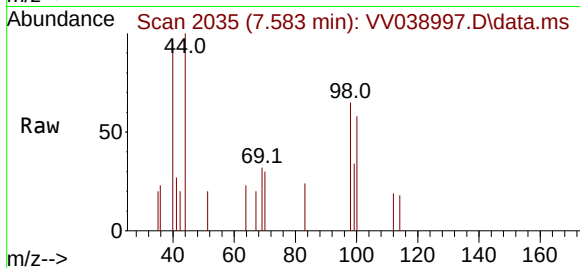
Tgt Ion: 69 Resp: 90

Ion Ratio Lower Upper

69 100

41 128.9 47.5 71.3#

39 0.0 24.2 36.2#



#58

2-Chloroethyl Vinyl ether

Concen: 4.991 ug/l

RT: 6.776 min Scan# 1784

Delta R.T. -0.033 min

Lab File: VV038997.D

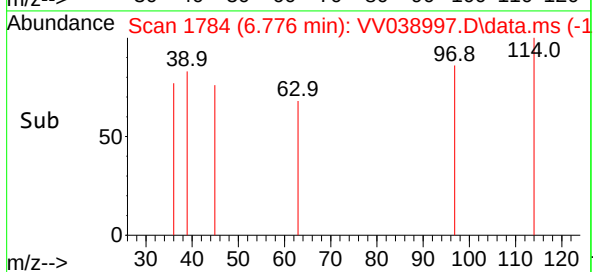
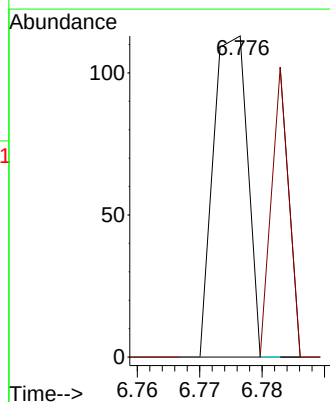
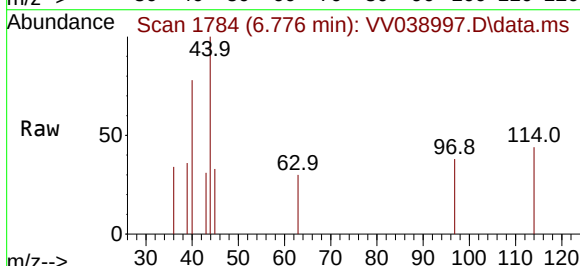
Acq: 21 Aug 2025 21:28

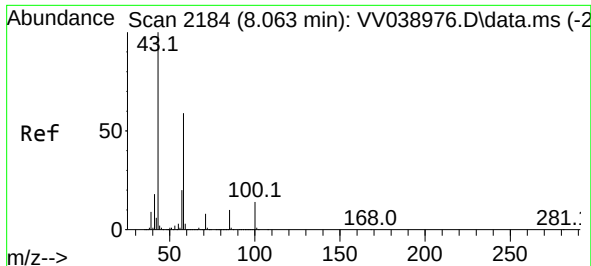
Tgt Ion: 63 Resp: 43

Ion Ratio Lower Upper

63 100

106 46.5 25.6 38.4#





#59

2-Hexanone

Concen: 10.905 ug/l

RT: 7.889 min Scan# 21

Delta R.T. -0.174 min

Lab File: VV038997.D

Acq: 21 Aug 2025 21:28

Instrument :

MSVOA_V

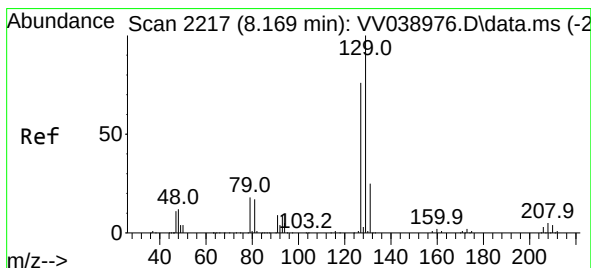
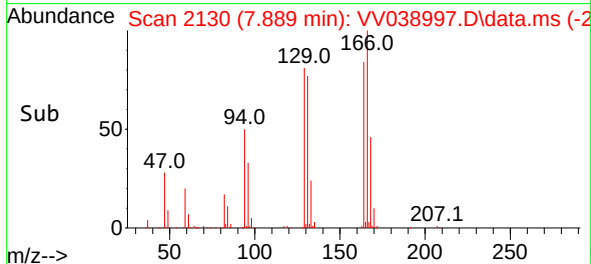
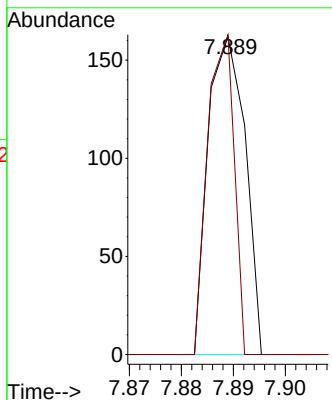
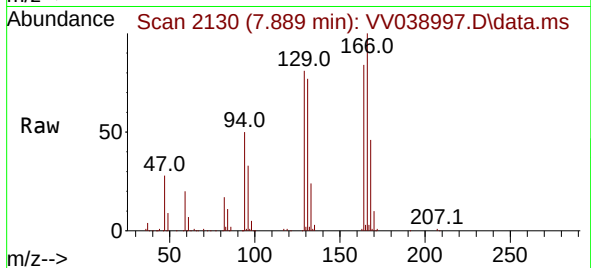
ClientSampleId :

Tgt Ion: 43 Resp: 80

Ion Ratio Lower Upper

43 100

58 72.5 29.8 89.4



#60

Dibromochloromethane

Concen: 18.953 ug/l

RT: 7.899 min Scan# 2133

Delta R.T. -0.270 min

Lab File: VV038997.D

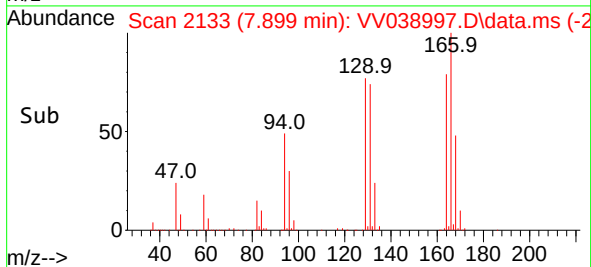
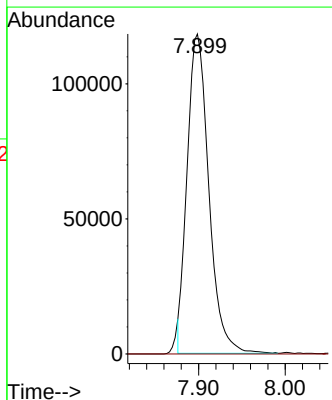
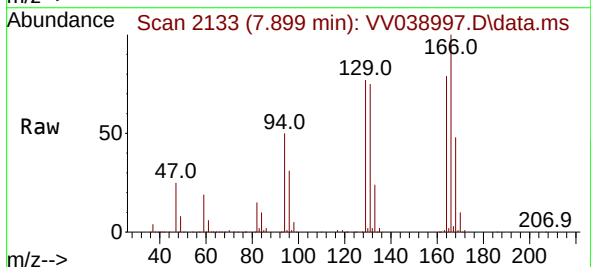
Acq: 21 Aug 2025 21:28

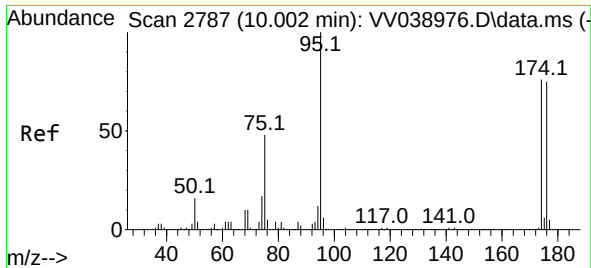
Tgt Ion:129 Resp: 205265

Ion Ratio Lower Upper

129 100

127 0.0 38.4 115.1#

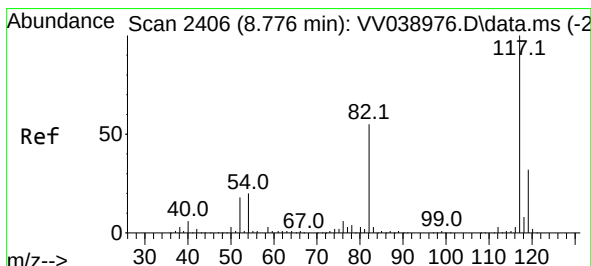
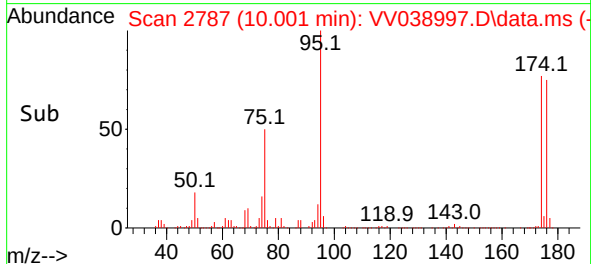
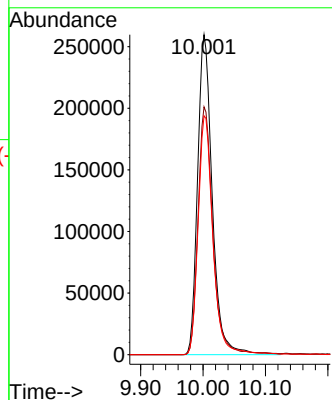
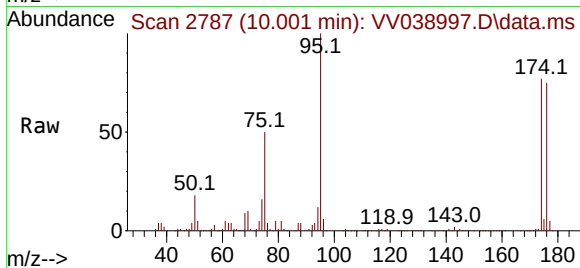




#62
4-Bromofluorobenzene
Concen: 41.723 ug/l
RT: 10.001 min Scan# 21
Delta R.T. -0.000 min
Lab File: VV038997.D
Acq: 21 Aug 2025 21:28

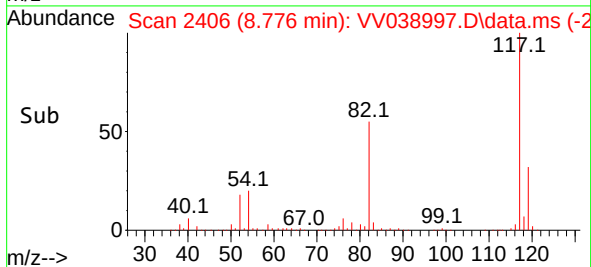
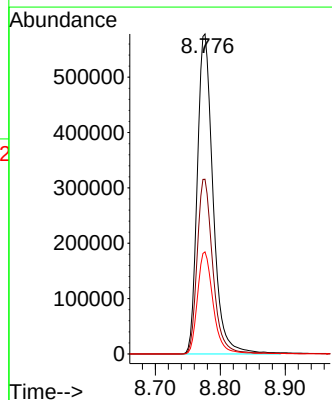
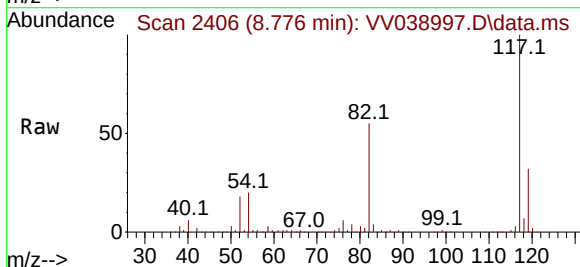
Instrument :
MSVOA_V
ClientSampleId :

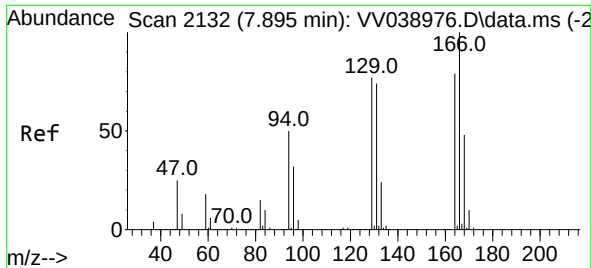
Tgt Ion: 95 Resp: 425018
Ion Ratio Lower Upper
95 100
174 77.9 0.0 154.4
176 75.3 0.0 148.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 2406
Delta R.T. 0.000 min
Lab File: VV038997.D
Acq: 21 Aug 2025 21:28

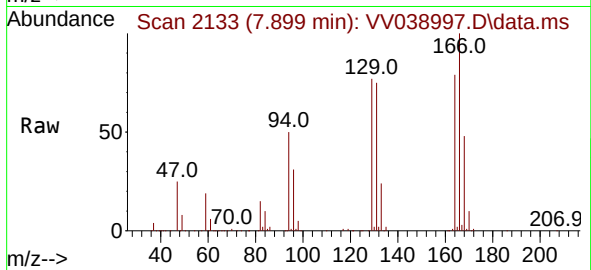
Tgt Ion: 117 Resp: 974990
Ion Ratio Lower Upper
117 100
82 54.6 44.4 66.6
119 31.9 26.0 39.0



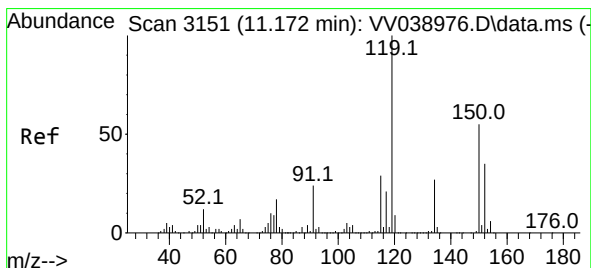
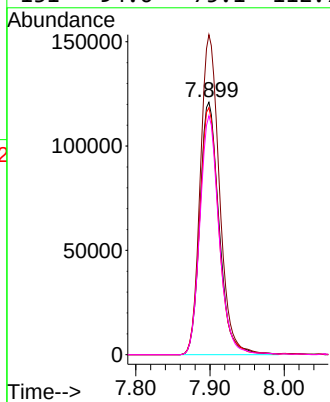
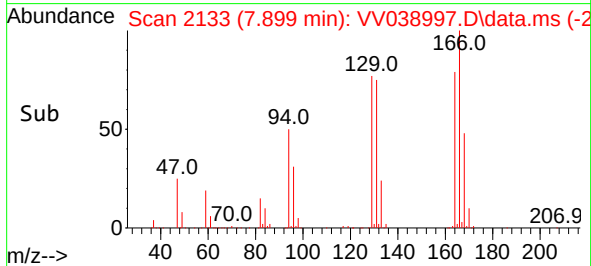


#64
Tetrachloroethene
Concen: 29.895 ug/l
RT: 7.899 min Scan# 2132
Delta R.T. 0.003 min
Lab File: VV038997.D
Acq: 21 Aug 2025 21:28

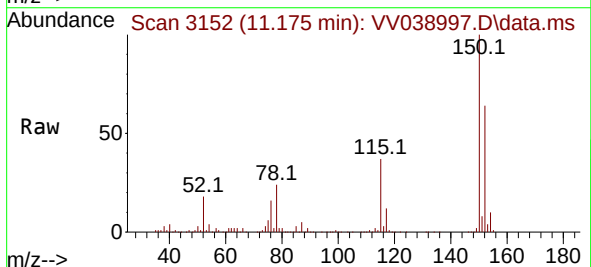
Instrument :
MSVOA_V
ClientSampleId :



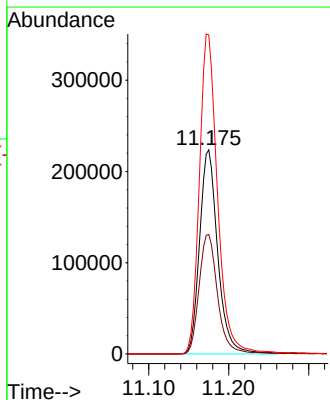
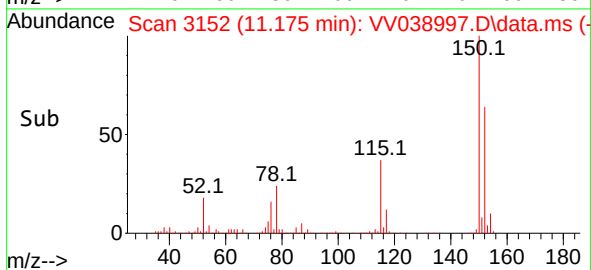
Tgt Ion:	164	Resp:	216885
Ion	Ratio	Lower	Upper
164	100		
166	126.7	101.8	152.6
129	97.9	78.7	118.1
131	94.6	75.1	112.7

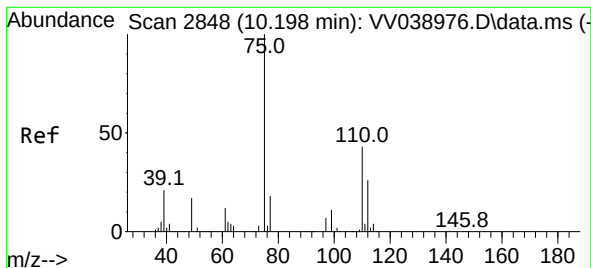


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.175 min Scan# 3152
Delta R.T. 0.003 min
Lab File: VV038997.D
Acq: 21 Aug 2025 21:28



Tgt Ion:	152	Resp:	354625
Ion	Ratio	Lower	Upper
152	100		
115	59.7	42.5	127.5
150	156.7	0.0	344.8





#76

1,2,3-Trichloropropane

Concen: 32.604 ug/l

RT: 10.001 min Scan# 21

Delta R.T. -0.196 min

Lab File: VV038997.D

Acq: 21 Aug 2025 21:28

Instrument :

MSVOA_V

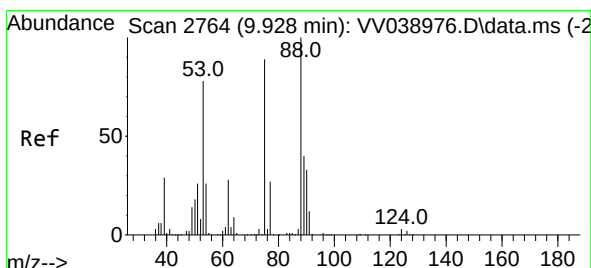
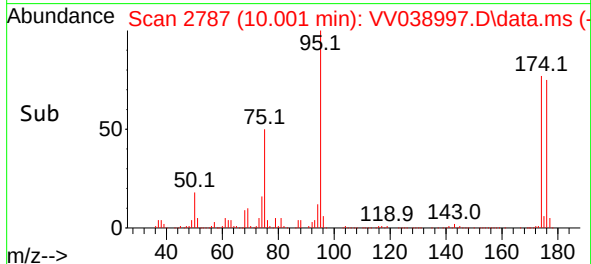
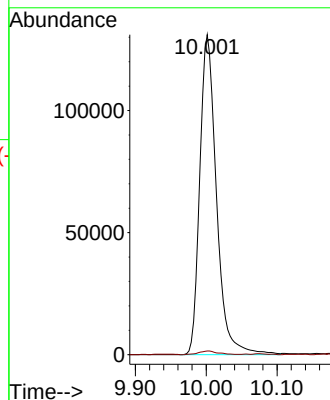
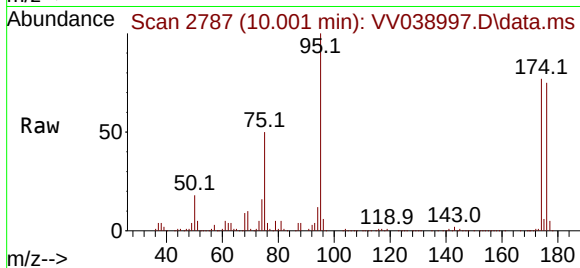
ClientSampleId :

Tgt Ion: 75 Resp: 214465

Ion Ratio Lower Upper

75 100

77 1.4 11.3 33.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 74.856 ug/l

RT: 10.001 min Scan# 2787

Delta R.T. 0.074 min

Lab File: VV038997.D

Acq: 21 Aug 2025 21:28

Tgt Ion: 75 Resp: 214465

Ion Ratio Lower Upper

75 100

53 0.3 70.3 105.5#

89 0.0 37.9 56.9#

