

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV082125\
 Data File : VV039003.D
 Acq On : 21 Aug 2025 23:37
 Operator : SY/MD
 Sample : Q2924-10
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Aug 22 04:41:55 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)

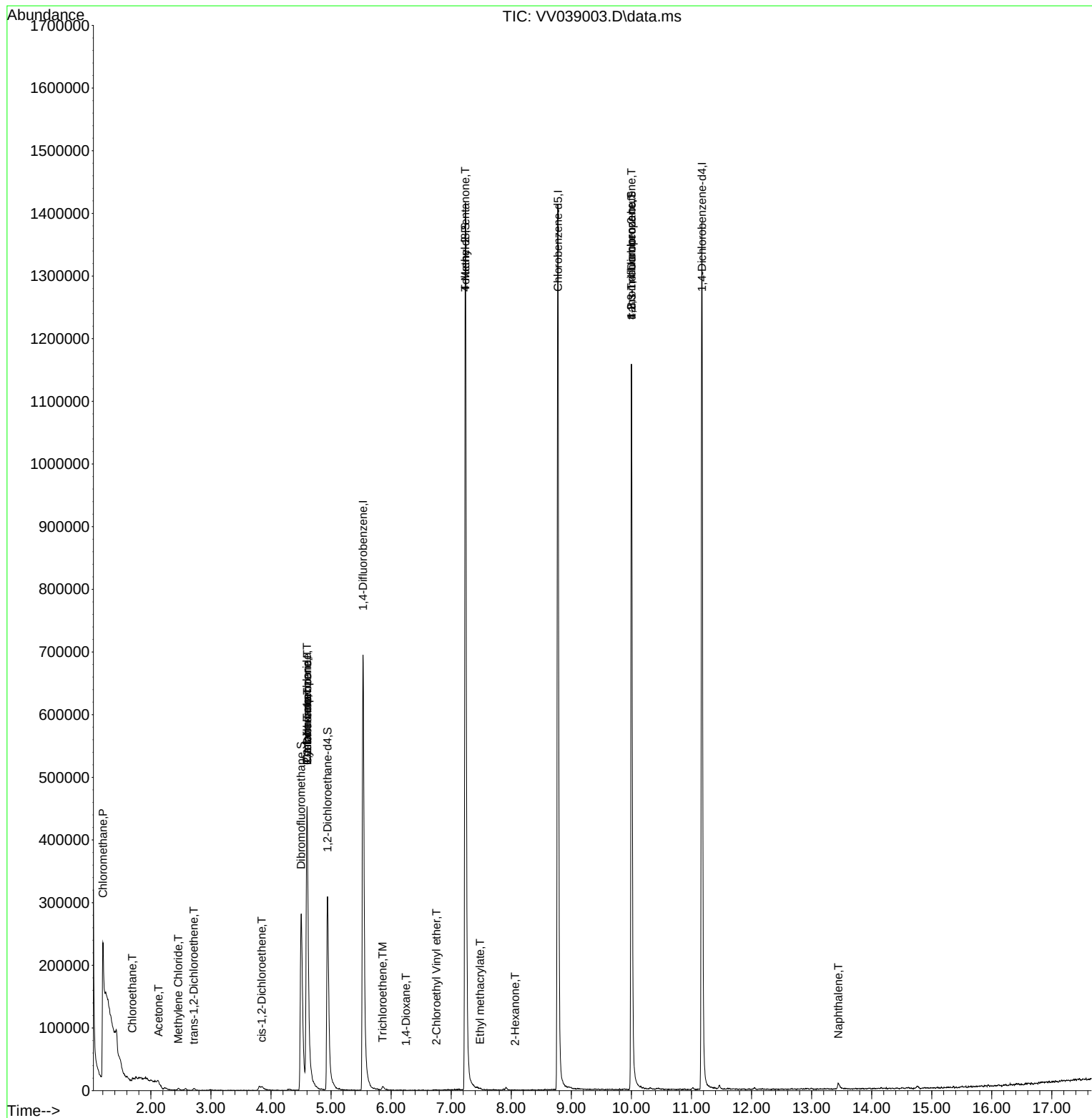
Internal Standards						
1) Pentafluorobenzene	4.603	168	403960	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.532	114	696194	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	801104	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.175	152	375249	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.941	65	289211	51.023	ug/l	0.00
Spiked Amount	50.000	Range	81 - 118	Recovery	= 102.040%	
35) Dibromofluoromethane	4.503	113	235166	45.041	ug/l	0.00
Spiked Amount	50.000	Range	80 - 119	Recovery	= 90.080%	
50) Toluene-d8	7.236	98	1002580	55.068	ug/l	0.00
Spiked Amount	50.000	Range	89 - 112	Recovery	= 110.140%	
62) 4-Bromofluorobenzene	10.001	95	391864	58.836	ug/l	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	= 117.680%#	
Target Compounds						
					Qvalue	
3) Chloromethane	1.201	50	6747	1.082	ug/l #	42
6) Chloroethane	1.693	64	2423	0.722	ug/l #	41
13) Acrolein	2.021	56	56	Below Cal	#	13
16) Acetone	2.127	43	6439	2.830	ug/l	97
20) Methylene Chloride	2.458	84	1572	0.297	ug/l #	88
21) trans-1,2-Dichloroethene	2.716	96	1674	0.351	ug/l #	82
27) cis-1,2-Dichloroethene	3.847	96	2072	0.360	ug/l	88
28) Bromochloromethane	4.281	49	23	Below Cal	#	3
31) Cyclohexane	4.603	56	7613	0.958	ug/l #	11
36) 1,1-Dichloropropene	4.603	75	28555	4.211	ug/l #	50
38) Carbon Tetrachloride	4.600	117	39220	4.319	ug/l #	16
44) Trichloroethene	5.857	130	2794	0.485	ug/l	78
49) 1,4-Dioxane	6.246	88	19	0.251	ug/l #	26
51) 4-Methyl-2-Pentanone	7.236	43	4090	0.616	ug/l #	1
56) Ethyl methacrylate	7.481	69	20	2.317	ug/l #	4
58) 2-Chloroethyl Vinyl ether	6.754	63	44	4.995	ug/l #	43
59) 2-Hexanone	8.063	43	47	10.904	ug/l #	21
76) 1,2,3-Trichloropropane	10.001	75	197844	28.424	ug/l #	56
81) trans-1,4-Dichloro-2-b...	10.001	75	197844	65.259	ug/l #	14
95) Naphthalene	13.445	128	8164	0.356	ug/l #	91

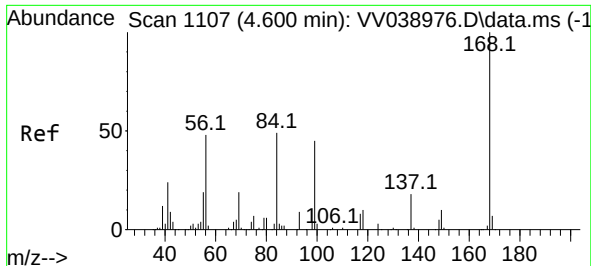
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV082125\
Data File : VV039003.D
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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

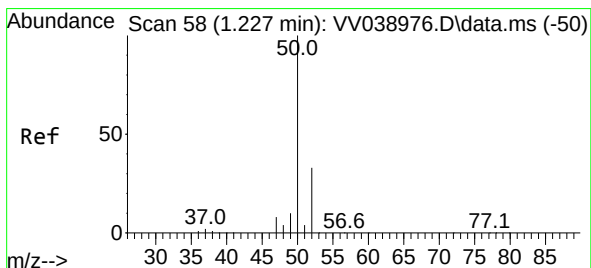
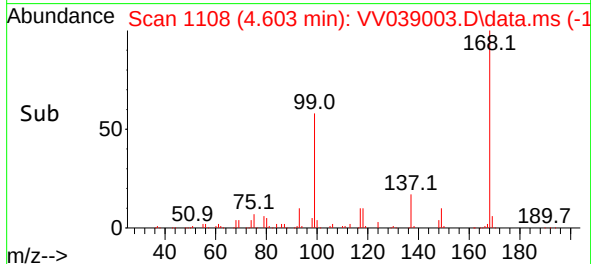
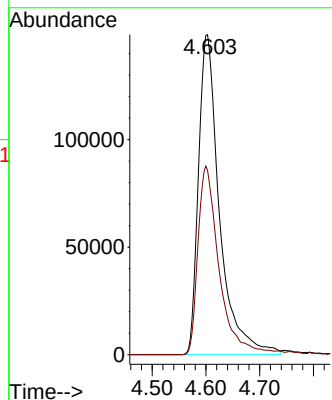
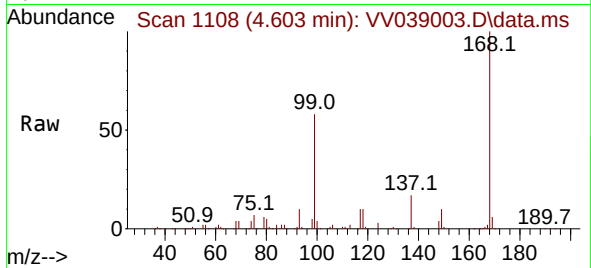




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.603 min Scan# 1107
Delta R.T. 0.003 min
Lab File: VV039003.D
Acq: 21 Aug 2025 23:37

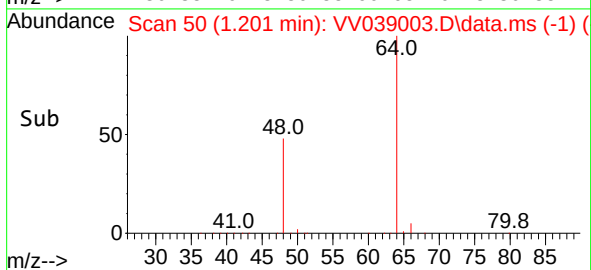
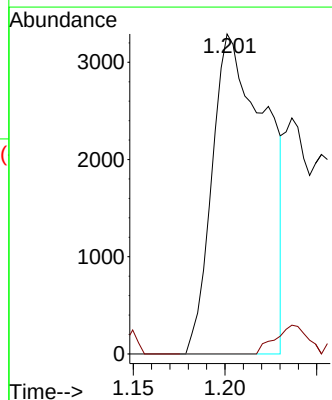
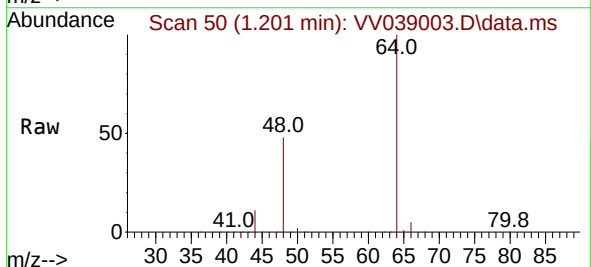
Instrument :
MSVOA_V
ClientSampleId :

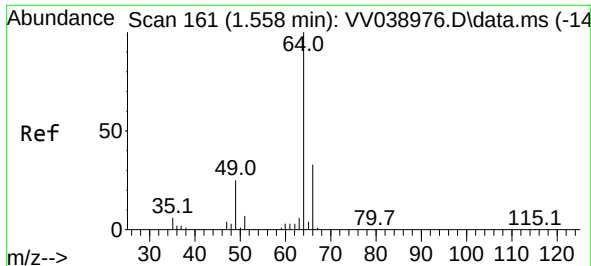
Tgt Ion:168 Resp: 403960
Ion Ratio Lower Upper
168 100
99 57.6 47.0 70.6



#3
Chloromethane
Concen: 1.082 ug/l
RT: 1.201 min Scan# 50
Delta R.T. -0.026 min
Lab File: VV039003.D
Acq: 21 Aug 2025 23:37

Tgt Ion: 50 Resp: 6747
Ion Ratio Lower Upper
50 100
52 0.0 26.2 39.2#

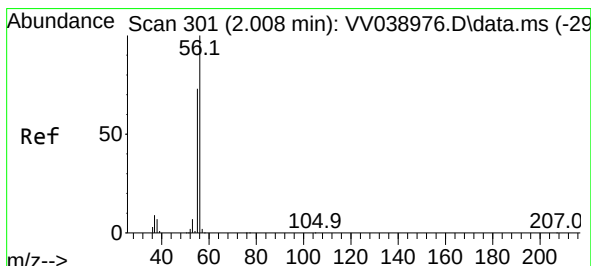
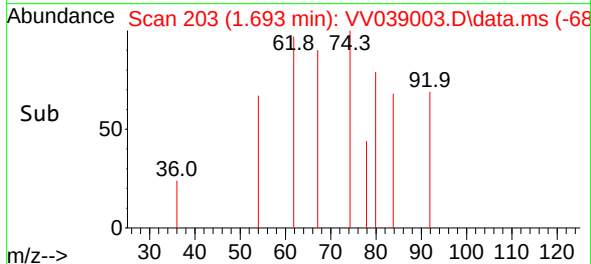
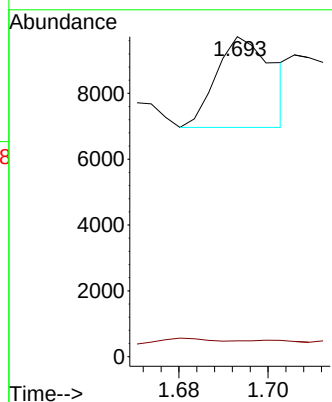
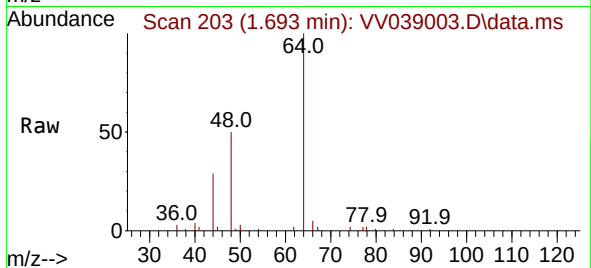




#6
Chloroethane
Concen: 0.722 ug/l
RT: 1.693 min Scan# 20
Delta R.T. 0.135 min
Lab File: VV039003.D
Acq: 21 Aug 2025 23:37

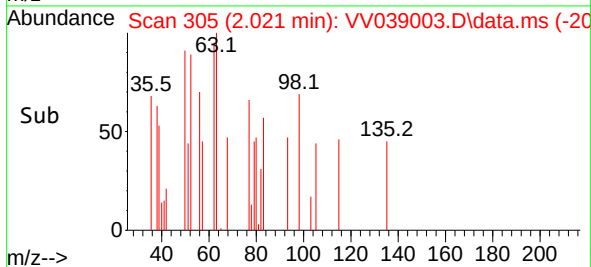
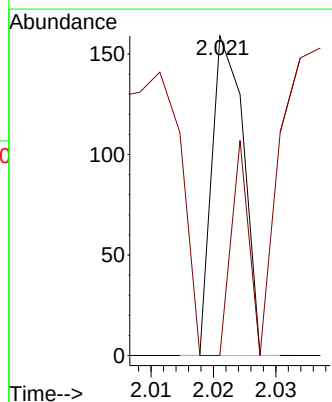
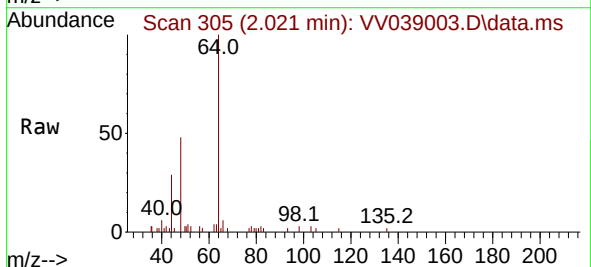
Instrument :
MSVOA_V
ClientSampleId :

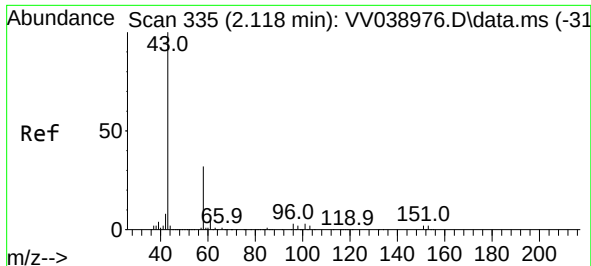
Tgt Ion: 64 Resp: 2423
Ion Ratio Lower Upper
64 100
66 0.0 26.8 40.2#



#13
Acrolein
Concen: Below Cal
RT: 2.021 min Scan# 305
Delta R.T. 0.013 min
Lab File: VV039003.D
Acq: 21 Aug 2025 23:37

Tgt Ion: 56 Resp: 56
Ion Ratio Lower Upper
56 100
55 0.0 58.8 88.2#

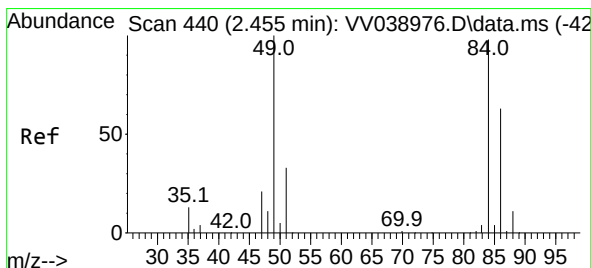
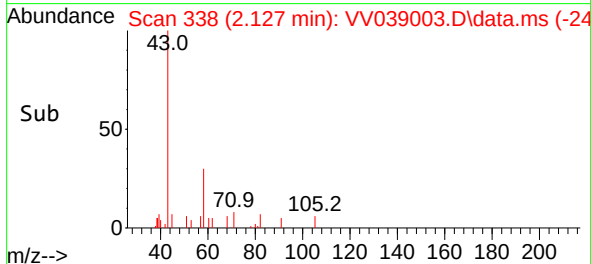
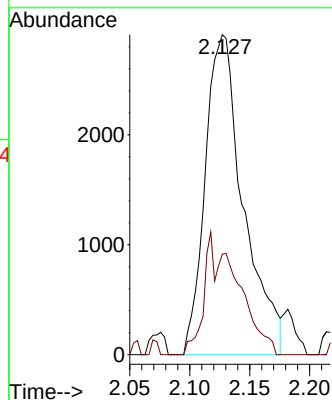
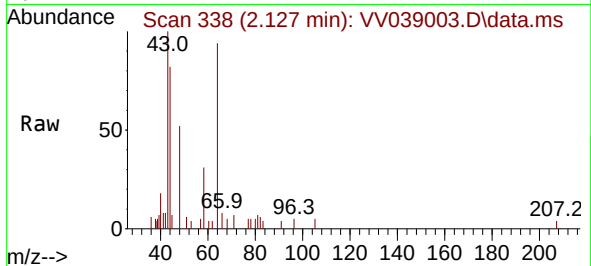




#16
Acetone
Concen: 2.830 ug/l
RT: 2.127 min Scan# 31
Delta R.T. 0.010 min
Lab File: VV039003.D
Acq: 21 Aug 2025 23:37

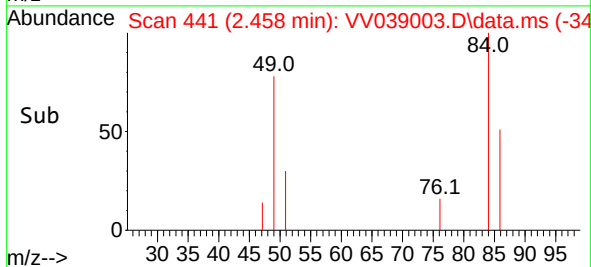
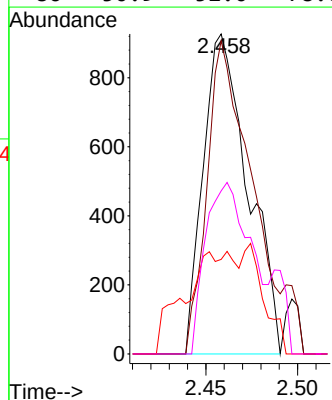
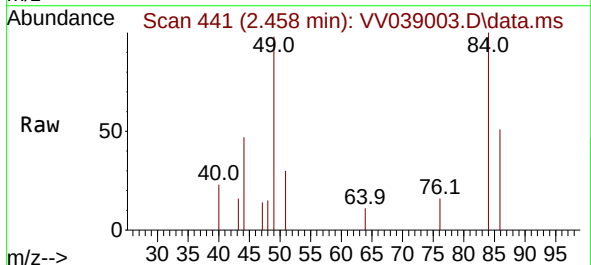
Instrument :
MSVOA_V
ClientSampleId :

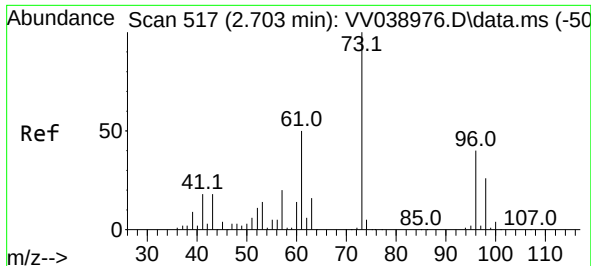
Tgt Ion: 43 Resp: 6439
Ion Ratio Lower Upper
43 100
58 31.4 26.3 39.5



#20
Methylene Chloride
Concen: 0.297 ug/l
RT: 2.458 min Scan# 441
Delta R.T. 0.003 min
Lab File: VV039003.D
Acq: 21 Aug 2025 23:37

Tgt Ion: 84 Resp: 1572
Ion Ratio Lower Upper
84 100
49 97.8 81.9 122.9
51 18.6 26.9 40.3#
86 50.9 52.0 78.0#





#21

trans-1,2-Dichloroethene

Concen: 0.351 ug/l

RT: 2.716 min Scan# 517

Delta R.T. 0.013 min

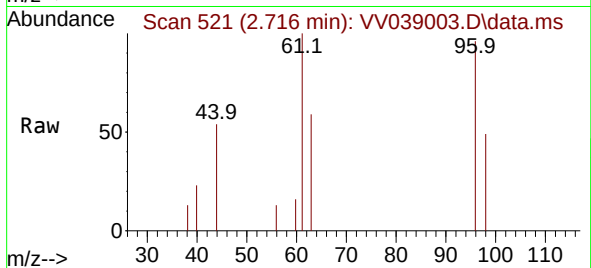
Lab File: VV039003.D

Acq: 21 Aug 2025 23:37

Instrument :

MSVOA_V

ClientSampleId :



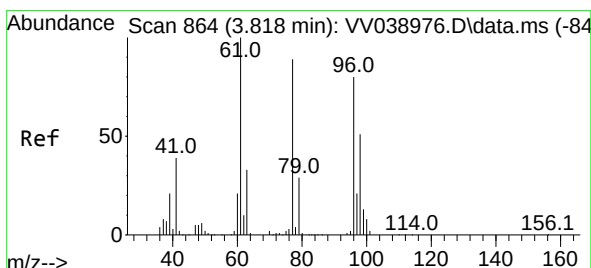
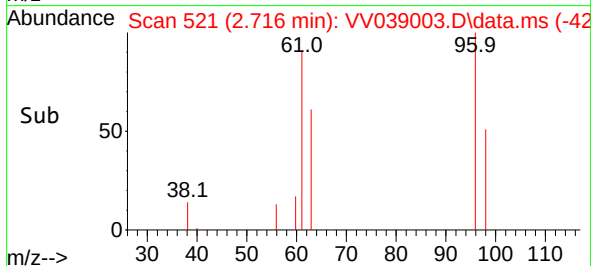
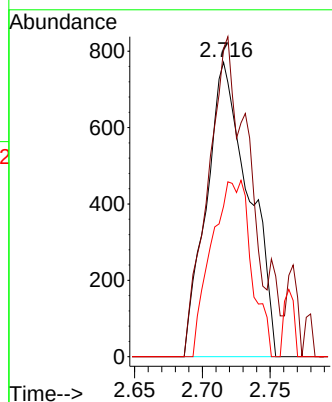
Tgt Ion: 96 Resp: 1674

Ion Ratio Lower Upper

96 100

61 104.5 100.6 151.0

98 51.1 51.5 77.3#



#27

cis-1,2-Dichloroethene

Concen: 0.360 ug/l

RT: 3.847 min Scan# 873

Delta R.T. 0.029 min

Lab File: VV039003.D

Acq: 21 Aug 2025 23:37

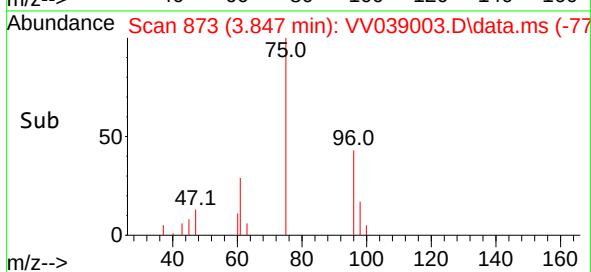
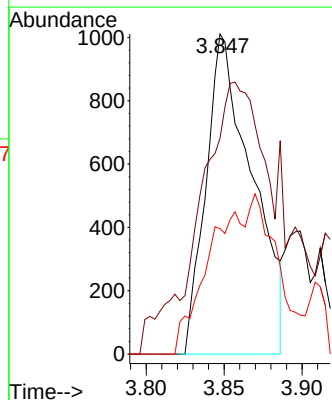
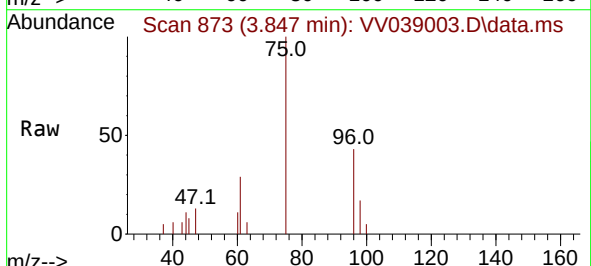
Tgt Ion: 96 Resp: 2072

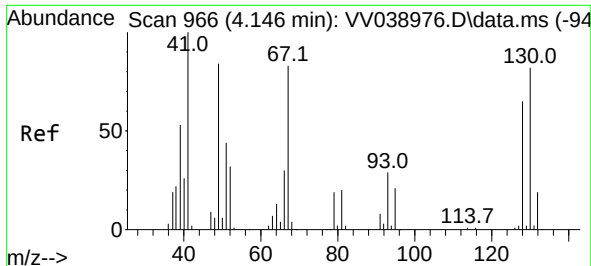
Ion Ratio Lower Upper

96 100

61 133.4 0.0 264.4

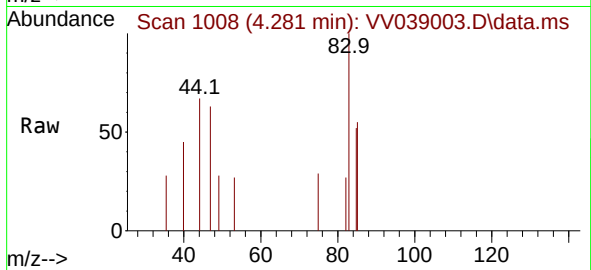
98 38.8 0.0 131.8



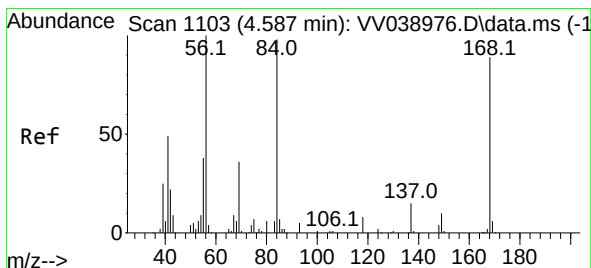
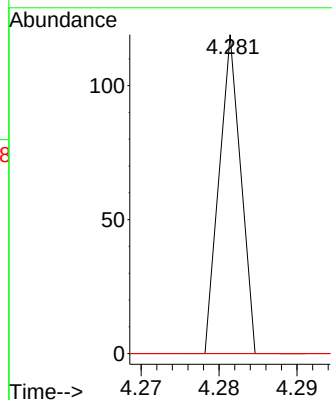
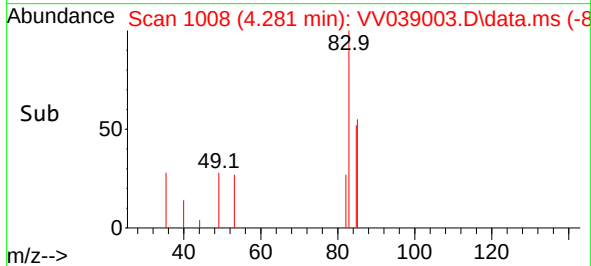


#28
Bromochloromethane
Concen: Below Cal
RT: 4.281 min Scan# 108
Delta R.T. 0.135 min
Lab File: VV039003.D
Acq: 21 Aug 2025 23:37

Instrument :
MSVOA_V
ClientSampleId :

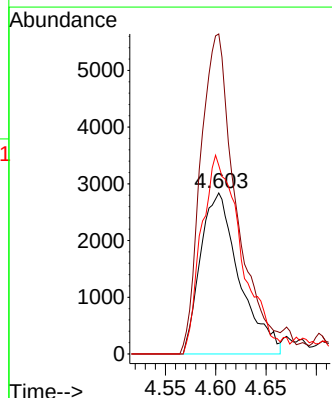
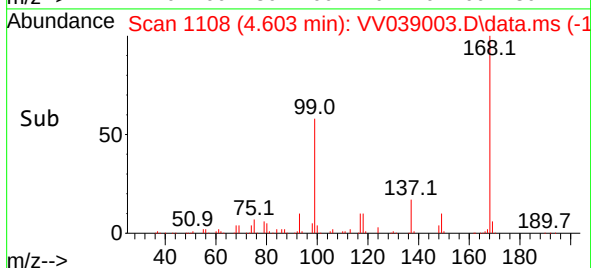
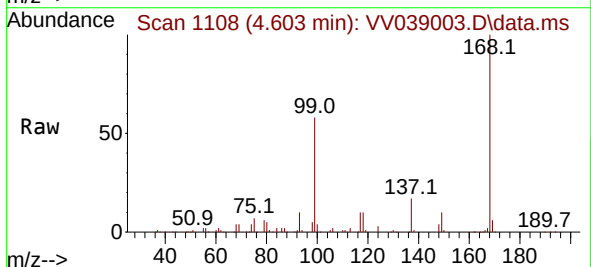


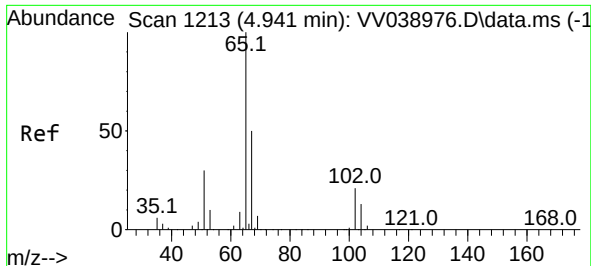
Tgt Ion: 49 Resp: 23
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.2
130 0.0 78.2 117.2#



#31
Cyclohexane
Concen: 0.958 ug/l
RT: 4.603 min Scan# 1108
Delta R.T. 0.016 min
Lab File: VV039003.D
Acq: 21 Aug 2025 23:37

Tgt Ion: 56 Resp: 7613
Ion Ratio Lower Upper
56 100
69 198.8 28.6 42.8#
84 117.2 78.1 117.1#





#33

1,2-Dichloroethane-d4

Concen: 51.023 ug/l

RT: 4.941 min Scan# 1

Delta R.T. -0.000 min

Lab File: VV039003.D

Acq: 21 Aug 2025 23:37

Instrument :

MSVOA_V

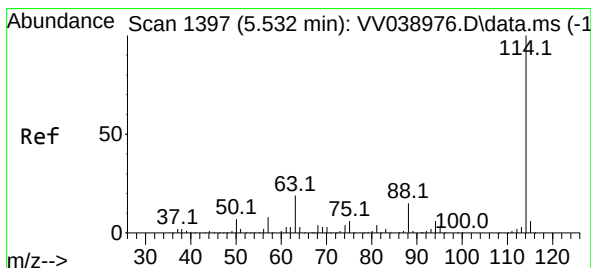
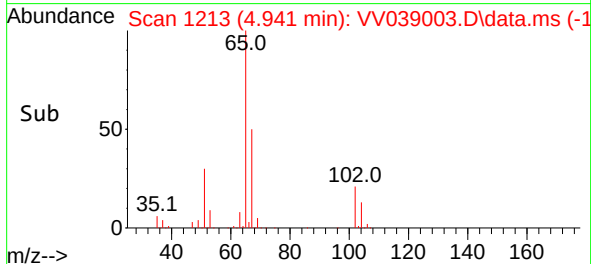
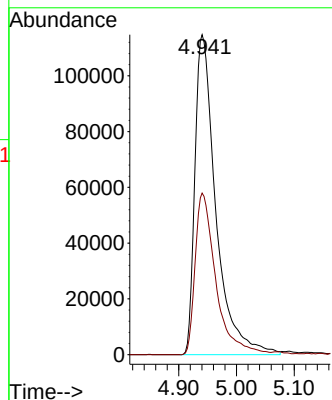
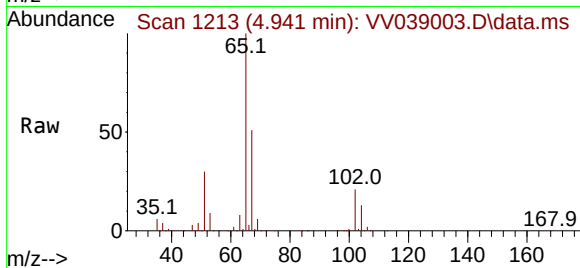
ClientSampleId :

Tgt Ion: 65 Resp: 289211

Ion Ratio Lower Upper

65 100

67 50.0 0.0 100.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.532 min Scan# 1397

Delta R.T. -0.000 min

Lab File: VV039003.D

Acq: 21 Aug 2025 23:37

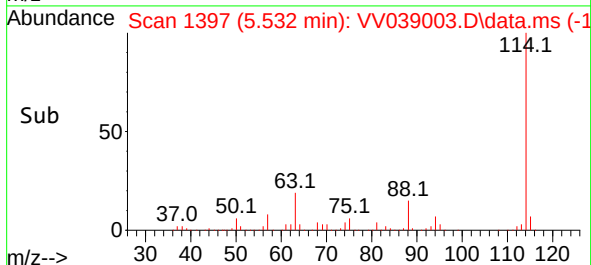
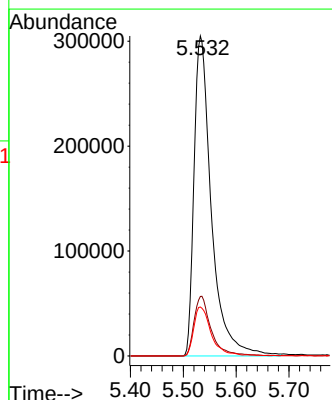
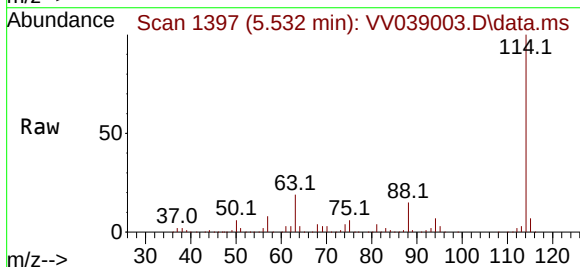
Tgt Ion: 114 Resp: 696194

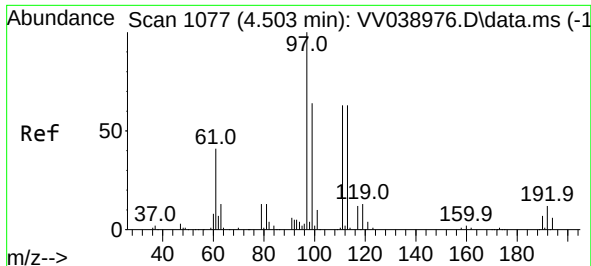
Ion Ratio Lower Upper

114 100

63 18.6 0.0 37.4

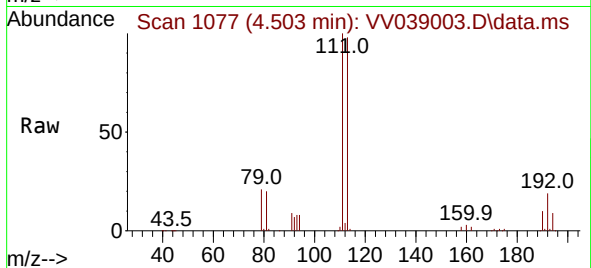
88 15.3 0.0 30.4



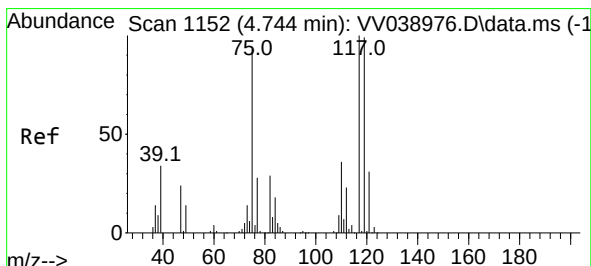
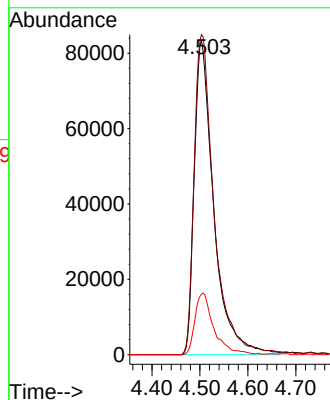
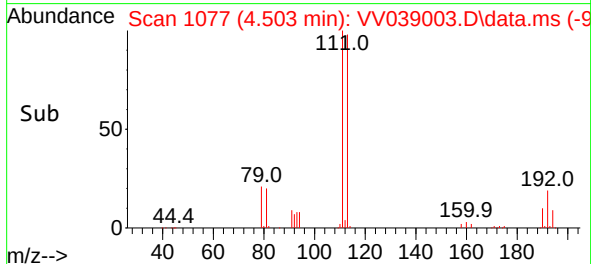


#35
Dibromofluoromethane
Concen: 45.041 ug/l
RT: 4.503 min Scan# 1108
Delta R.T. -0.000 min
Lab File: VV039003.D
Acq: 21 Aug 2025 23:37

Instrument :
MSVOA_V
ClientSampleId :

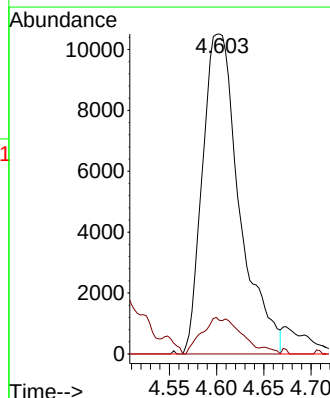
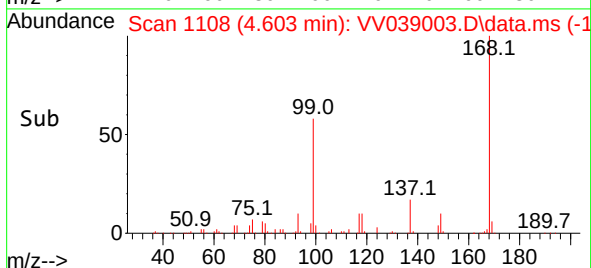
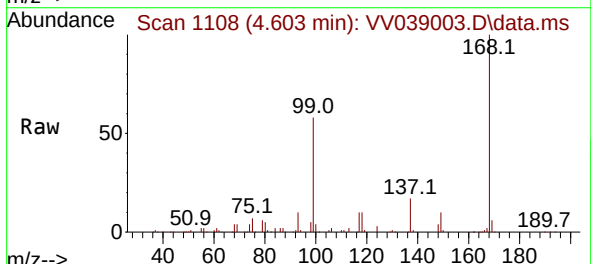


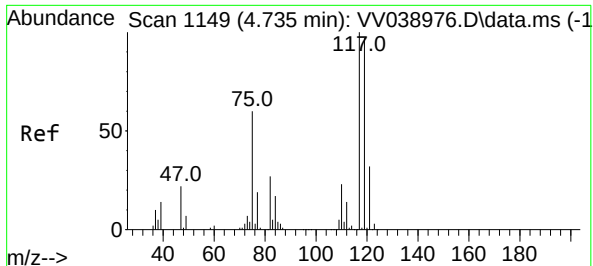
Tgt Ion:113 Resp: 235166
Ion Ratio Lower Upper
113 100
111 103.1 81.3 121.9
192 19.0 15.4 23.0



#36
1,1-Dichloropropene
Concen: 4.211 ug/l
RT: 4.603 min Scan# 1108
Delta R.T. -0.142 min
Lab File: VV039003.D
Acq: 21 Aug 2025 23:37

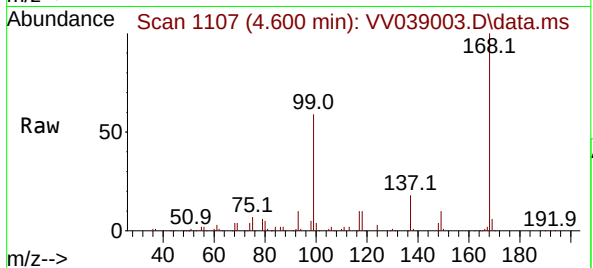
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Ion Ratio Lower Upper
75 100
110 11.7 19.6 58.7#
77 0.0 24.4 36.6#



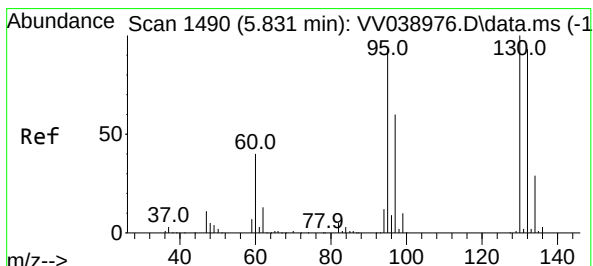
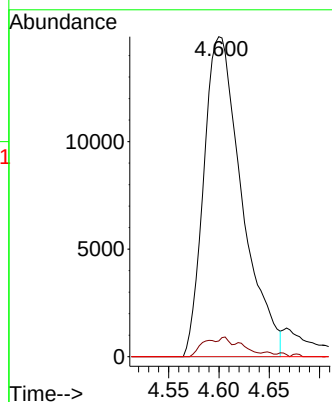
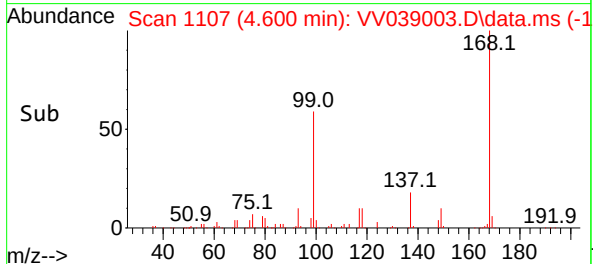


#38
Carbon Tetrachloride
Concen: 4.319 ug/l
RT: 4.600 min Scan# 1107
Delta R.T. -0.135 min
Lab File: VV039003.D
Acq: 21 Aug 2025 23:37

Instrument :
MSVOA_V
ClientSampleId :

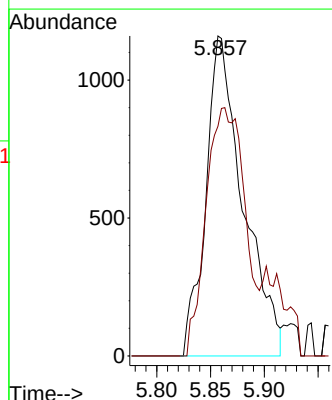
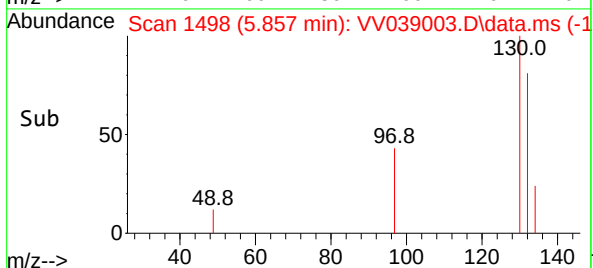
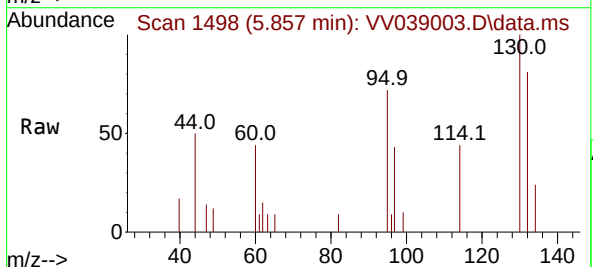


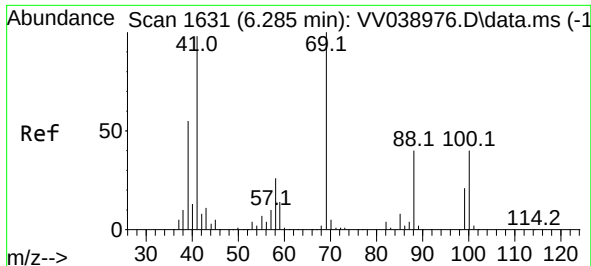
Tgt Ion:117 Resp: 39220
Ion Ratio Lower Upper
117 100
119 4.9 77.1 115.7#
121 0.0 25.4 38.2#



#44
Trichloroethene
Concen: 0.485 ug/l
RT: 5.857 min Scan# 1498
Delta R.T. 0.026 min
Lab File: VV039003.D
Acq: 21 Aug 2025 23:37

Tgt Ion:130 Resp: 2794
Ion Ratio Lower Upper
130 100
95 71.8 0.0 186.6





#49

1,4-Dioxane

Concen: 0.251 ug/l

RT: 6.246 min Scan# 1

Delta R.T. -0.039 min

Lab File: VV039003.D

Acq: 21 Aug 2025 23:37

Instrument :

MSVOA_V

ClientSampleId :

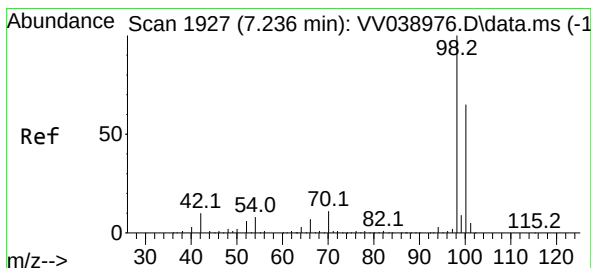
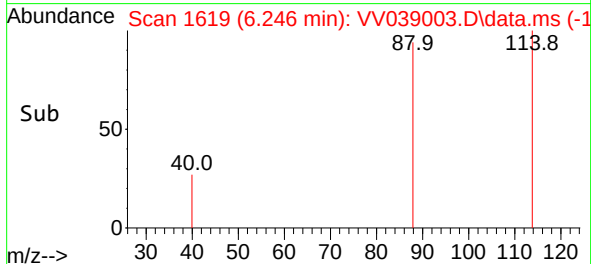
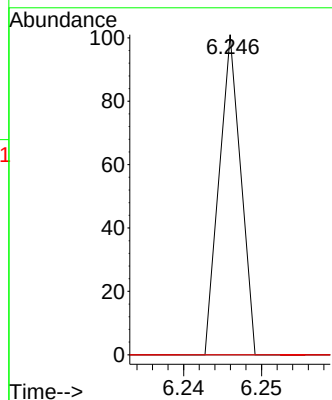
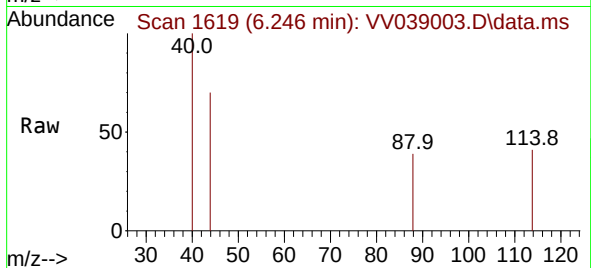
Tgt Ion: 88 Resp: 19

Ion Ratio Lower Upper

88 100

43 0.0 24.6 36.8#

58 0.0 51.8 77.6#



#50

Toluene-d8

Concen: 55.068 ug/l

RT: 7.236 min Scan# 1927

Delta R.T. -0.000 min

Lab File: VV039003.D

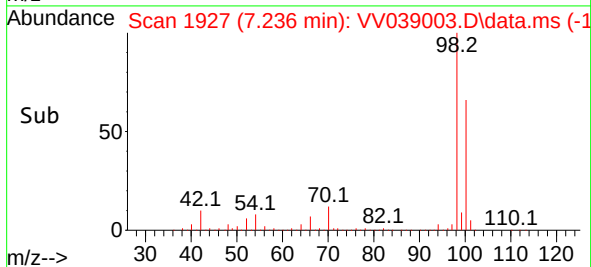
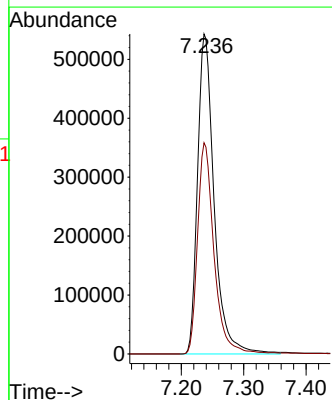
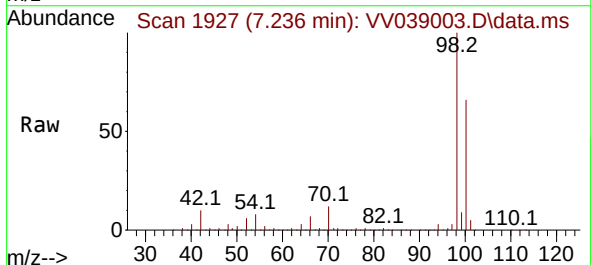
Acq: 21 Aug 2025 23:37

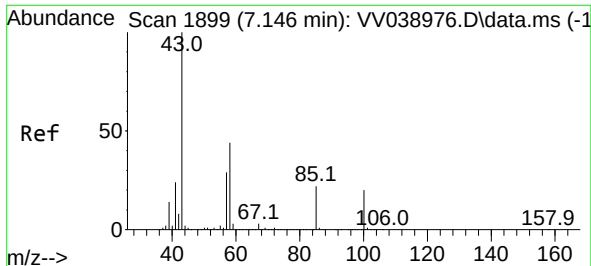
Tgt Ion: 98 Resp: 1002580

Ion Ratio Lower Upper

98 100

100 65.2 52.2 78.2

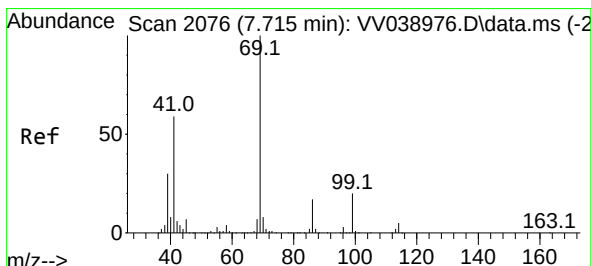
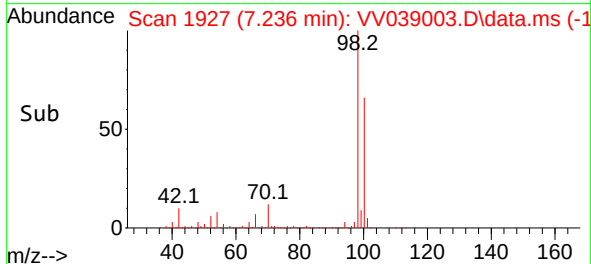
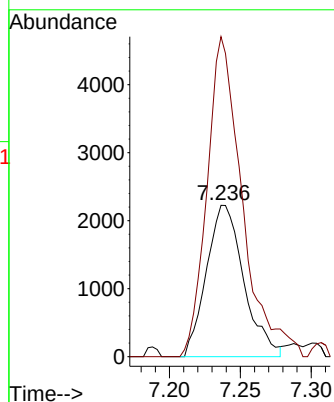
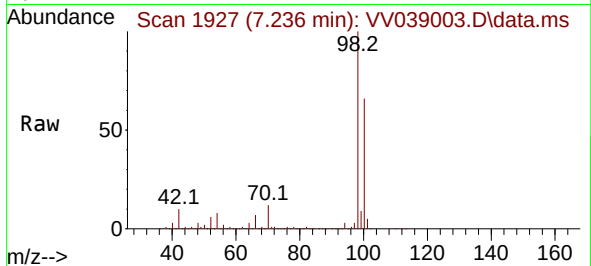




#51
4-Methyl-2-Pentanone
Concen: 0.616 ug/l
RT: 7.236 min Scan# 19
Delta R.T. 0.090 min
Lab File: VV039003.D
Acq: 21 Aug 2025 23:37

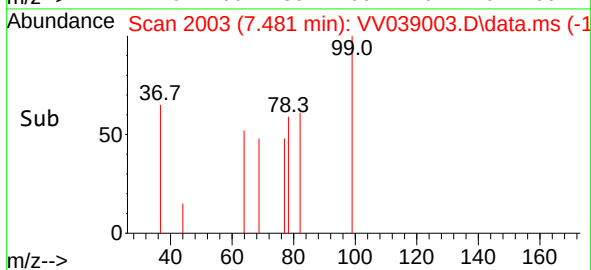
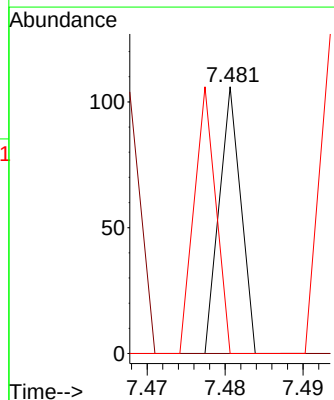
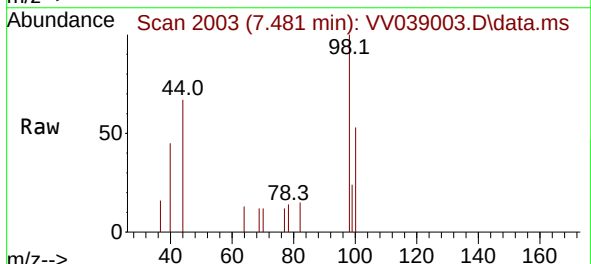
Instrument :
MSVOA_V
ClientSampleId :

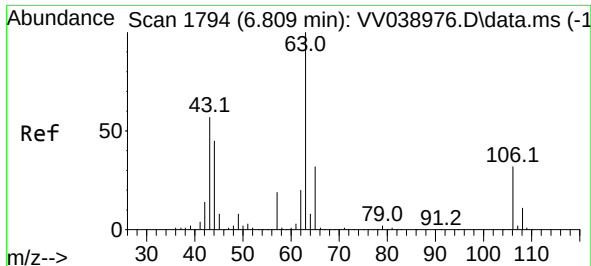
Tgt Ion: 43 Resp: 4090
Ion Ratio Lower Upper
43 100
58 199.3 34.6 51.8#



#56
Ethyl methacrylate
Concen: 2.317 ug/l
RT: 7.481 min Scan# 2003
Delta R.T. -0.234 min
Lab File: VV039003.D
Acq: 21 Aug 2025 23:37

Tgt Ion: 69 Resp: 20
Ion Ratio Lower Upper
69 100
41 0.0 47.5 71.3#
39 100.0 24.2 36.2#

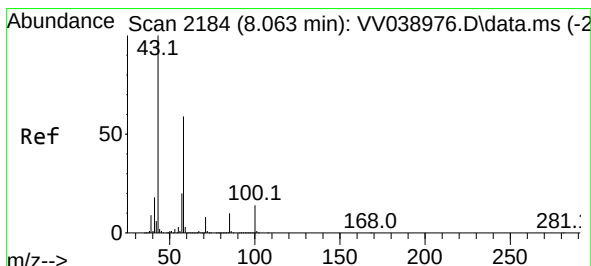
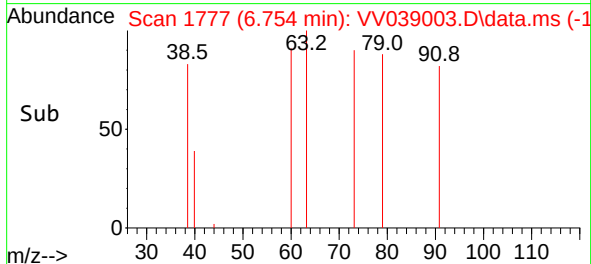
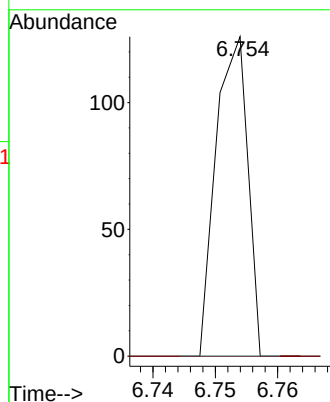
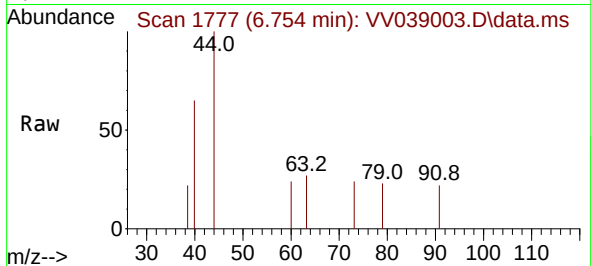




#58
2-Chloroethyl Vinyl ether
Concen: 4.995 ug/l
RT: 6.754 min Scan# 11
Delta R.T. -0.055 min
Lab File: VV039003.D
Acq: 21 Aug 2025 23:37

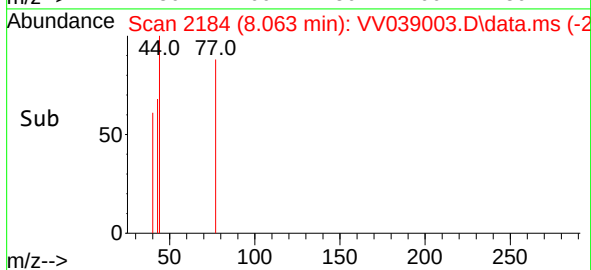
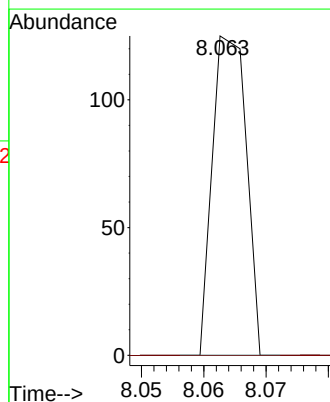
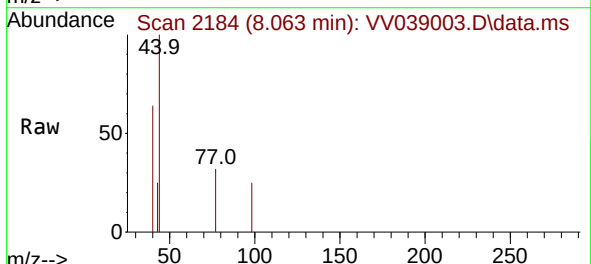
Instrument :
MSVOA_V
ClientSampleId :

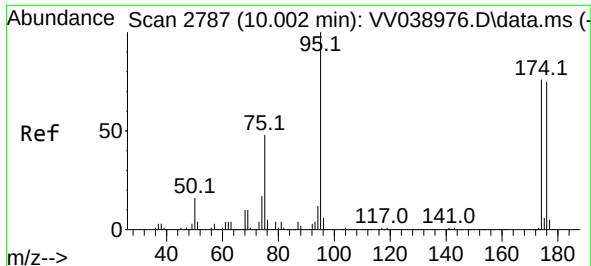
Tgt Ion: 63 Resp: 44
Ion Ratio Lower Upper
63 100
106 0.0 25.6 38.4#



#59
2-Hexanone
Concen: 10.904 ug/l
RT: 8.063 min Scan# 2184
Delta R.T. -0.000 min
Lab File: VV039003.D
Acq: 21 Aug 2025 23:37

Tgt Ion: 43 Resp: 47
Ion Ratio Lower Upper
43 100
58 0.0 29.8 89.4#

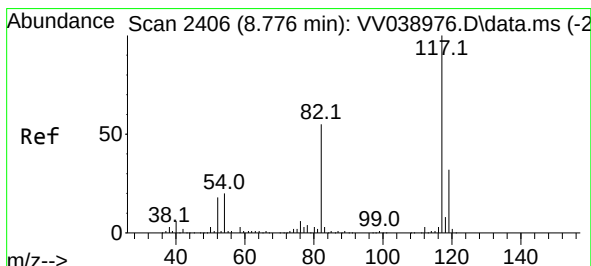
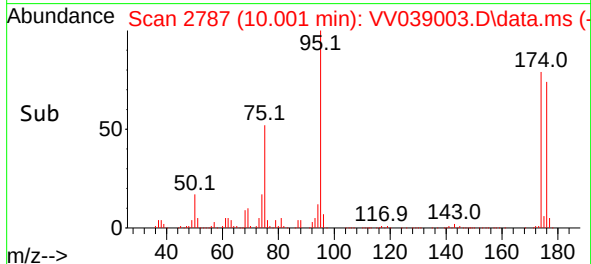
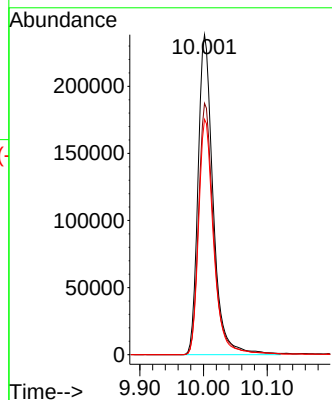
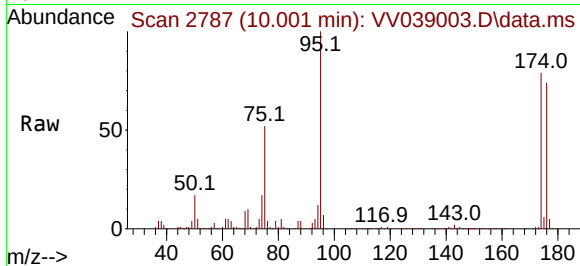




#62
4-Bromofluorobenzene
Concen: 58.836 ug/l
RT: 10.001 min Scan# 21
Delta R.T. -0.000 min
Lab File: VV039003.D
Acq: 21 Aug 2025 23:37

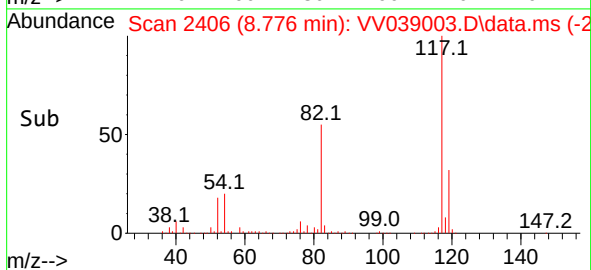
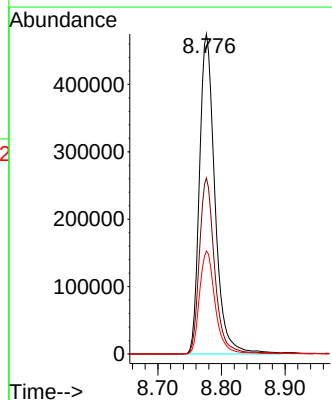
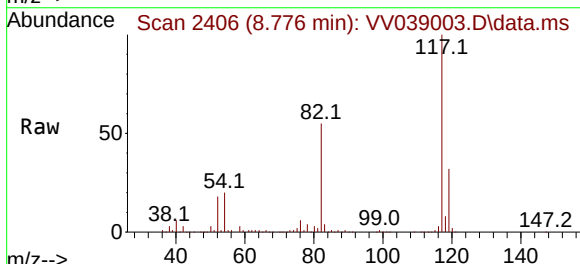
Instrument :
MSVOA_V
ClientSampleId :

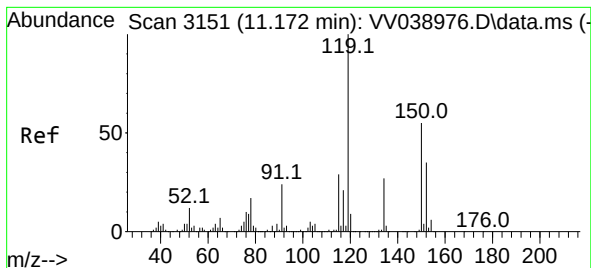
Tgt Ion: 95 Resp: 391864
Ion Ratio Lower Upper
95 100
174 78.7 0.0 154.4
176 73.0 0.0 148.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 2406
Delta R.T. 0.000 min
Lab File: VV039003.D
Acq: 21 Aug 2025 23:37

Tgt Ion: 117 Resp: 801104
Ion Ratio Lower Upper
117 100
82 55.0 44.4 66.6
119 32.1 26.0 39.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.175 min Scan# 3151

Delta R.T. 0.003 min

Lab File: VV039003.D

Acq: 21 Aug 2025 23:37

Instrument :

MSVOA_V

ClientSampleId :

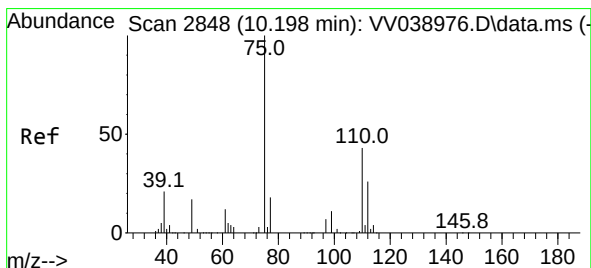
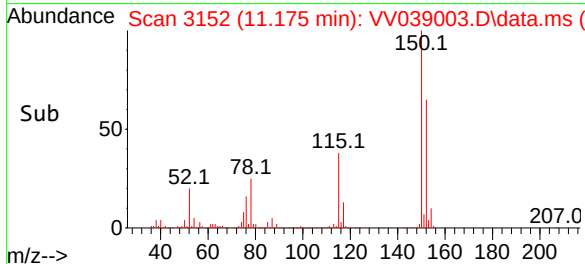
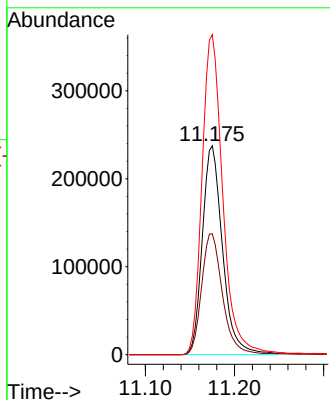
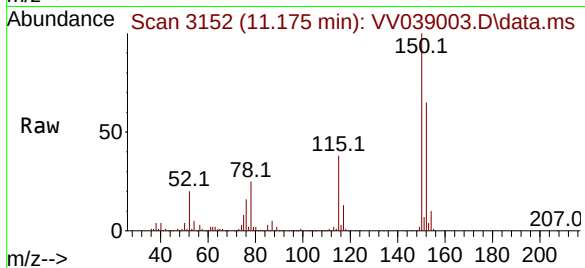
Tgt Ion:152 Resp: 375249

Ion Ratio Lower Upper

152 100

115 59.5 42.5 127.5

150 157.0 0.0 344.8



#76

1,2,3-Trichloropropane

Concen: 28.424 ug/l

RT: 10.001 min Scan# 2787

Delta R.T. -0.196 min

Lab File: VV039003.D

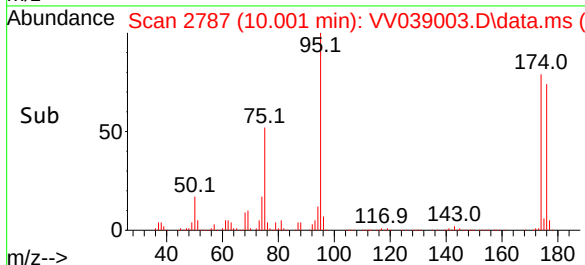
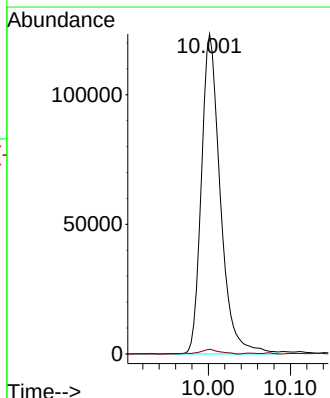
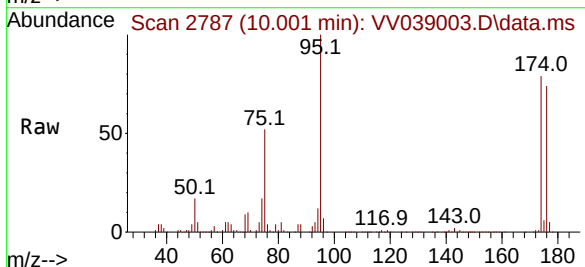
Acq: 21 Aug 2025 23:37

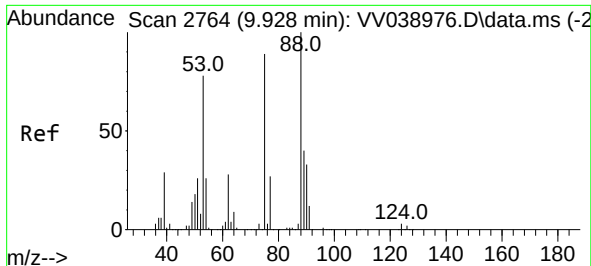
Tgt Ion: 75 Resp: 197844

Ion Ratio Lower Upper

75 100

77 1.4 11.3 33.8#

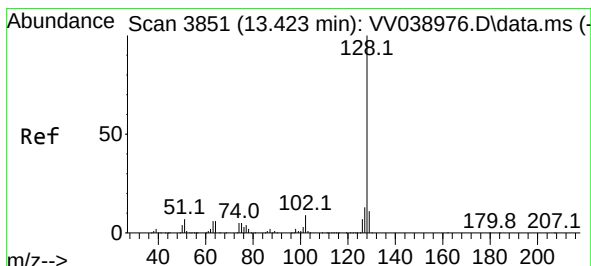
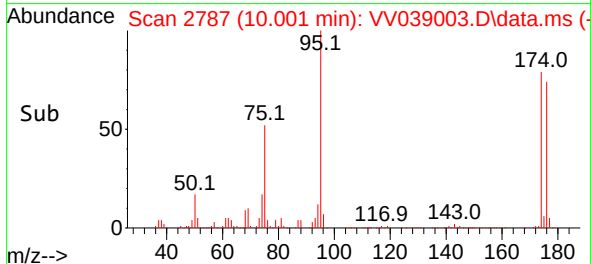
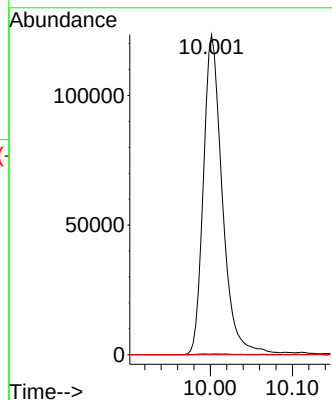
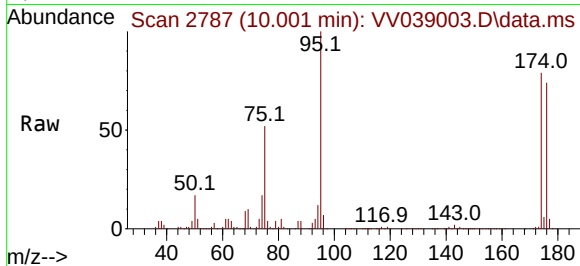




#81
trans-1,4-Dichloro-2-butene
Concen: 65.259 ug/l
RT: 10.001 min Scan# 21
Delta R.T. 0.074 min
Lab File: VV039003.D
Acq: 21 Aug 2025 23:37

Instrument :
MSVOA_V
ClientSampleId :

Tgt Ion: 75 Resp: 197844
Ion Ratio Lower Upper
75 100
53 0.2 70.3 105.5#
89 0.0 37.9 56.9#



#95
Naphthalene
Concen: 0.356 ug/l
RT: 13.445 min Scan# 3858
Delta R.T. 0.022 min
Lab File: VV039003.D
Acq: 21 Aug 2025 23:37

Tgt Ion:128 Resp: 8164
Ion Ratio Lower Upper
128 100
127 10.6 10.3 15.5
129 15.6 8.5 12.7#

