

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV110425\
 Data File : VV039311.D
 Acq On : 04 Nov 2025 13:49
 Operator : SY/MD
 Sample : Q3434-02
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Nov 05 00:36:50 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)

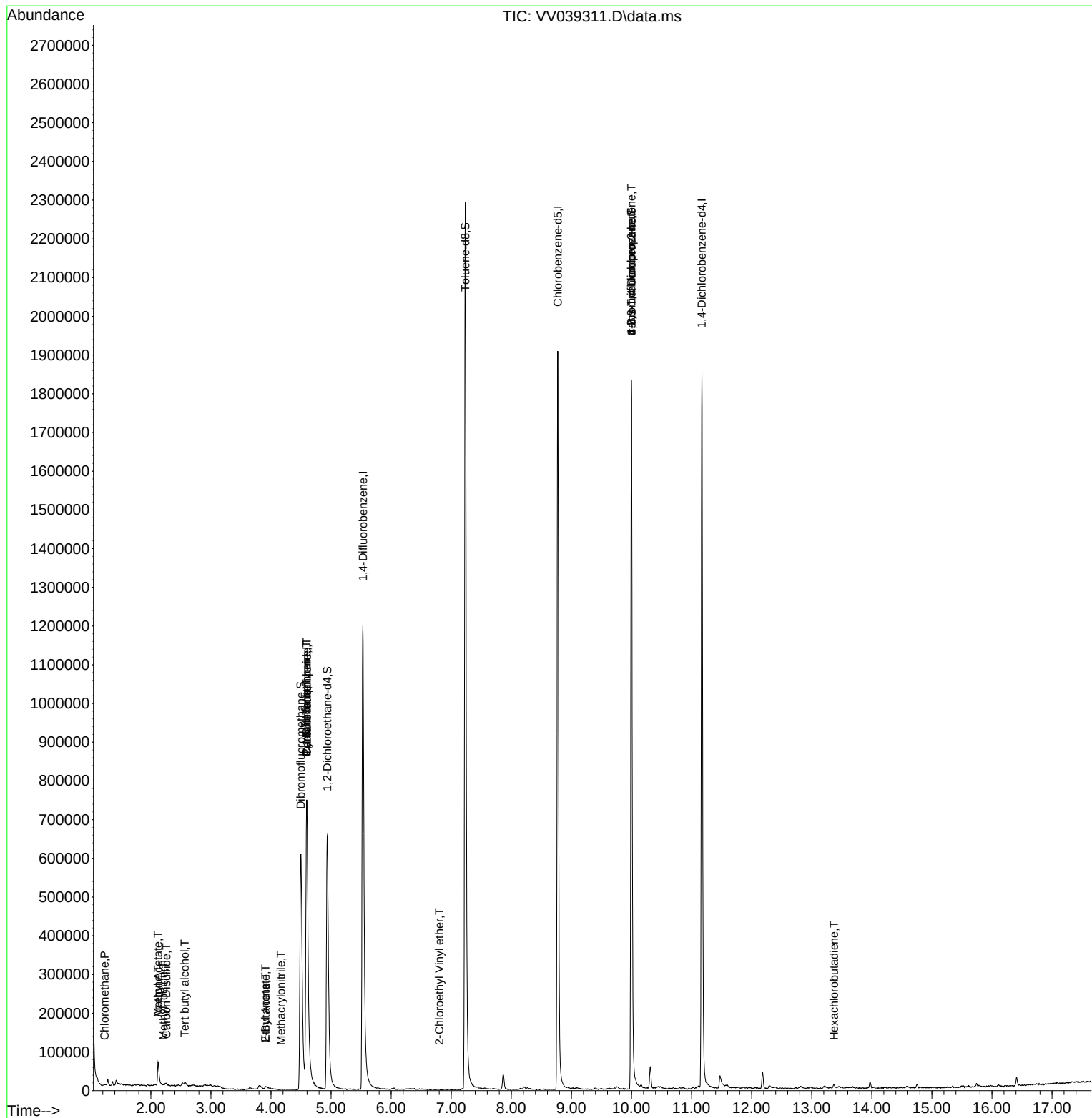
Internal Standards						
1) Pentafluorobenzene	4.596	168	659851	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.529	114	1187277	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.773	117	1121779	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	499329	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.937	65	591835	63.122	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery = 126.240%#			
35) Dibromofluoromethane	4.497	113	519604	55.544	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery = 111.080%			
50) Toluene-d8	7.233	98	1642276	51.603	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery = 103.200%			
62) 4-Bromofluorobenzene	9.998	95	628109	55.418	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery = 110.840%			
Target Compounds					Qvalue	
3) Chloromethane	1.230	50	2080	0.240	ug/l #	79
6) Chloroethane	1.568	64	130	Below Cal	#	80
10) Methyl Iodide	2.207	142	2665	0.341	ug/l #	82
11) Tert butyl alcohol	2.564	59	4511	2.483	ug/l #	93
13) Acrolein	2.014	56	521	Below Cal		99
16) Acetone	2.121	43	77273	7.765	ug/l	96
17) Carbon Disulfide	2.256	76	7768	0.309	ug/l	98
18) Methyl Acetate	2.121	43	77273	6.360	ug/l #	51
20) Methylene Chloride	2.465	84	766	Below Cal	#	83
25) 2-Butanone	3.908	43	11022	1.922	ug/l	94
31) Cyclohexane	4.596	56	13285	1.075	ug/l #	1
36) 1,1-Dichloropropene	4.593	75	52308	4.452	ug/l #	45
37) Ethyl Acetate	3.908	43	11022	0.801	ug/l #	67
38) Carbon Tetrachloride	4.596	117	69619	4.863	ug/l #	17
41) Methacrylonitrile	4.169	41	399	1.757	ug/l #	32
58) 2-Chloroethyl Vinyl ether	6.802	63	20	8.470	ug/l #	45
76) 1,2,3-Trichloropropane	9.998	75	305392	30.643	ug/l #	53
81) trans-1,4-Dichloro-2-b...	9.998	75	305392	77.389	ug/l #	14
94) Hexachlorobutadiene	13.371	225	1443	0.323	ug/l	97

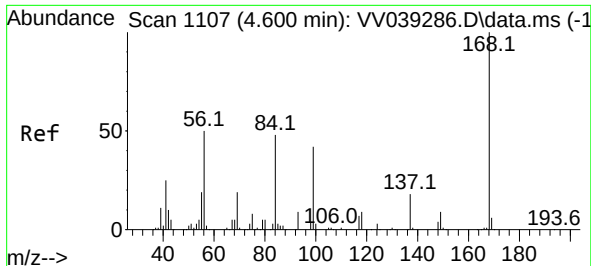
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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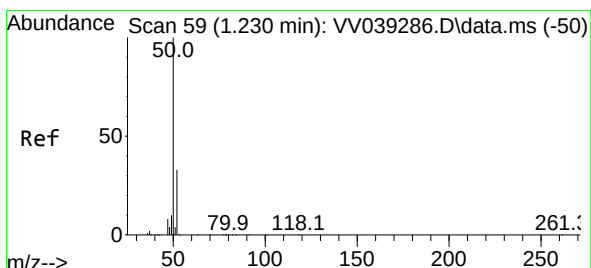
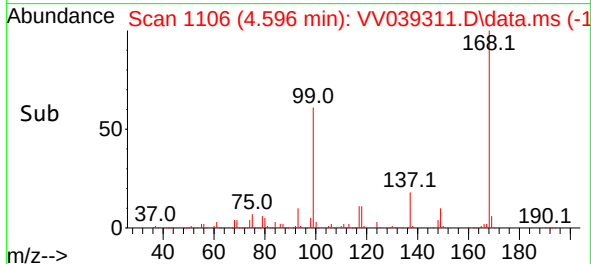
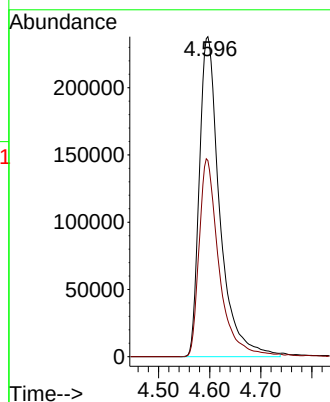
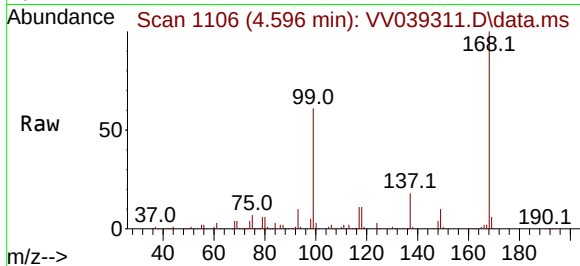




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.596 min Scan# 11
Delta R.T. -0.004 min
Lab File: VV039311.D
Acq: 04 Nov 2025 13:49

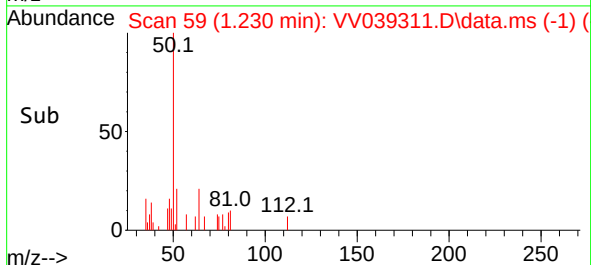
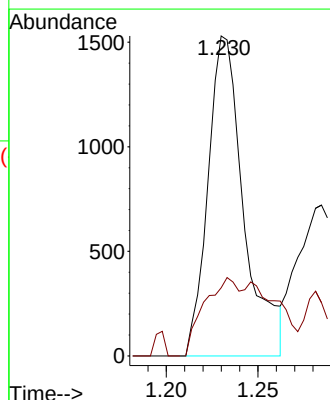
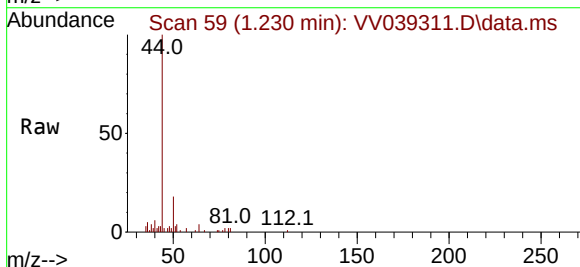
Instrument :
MSVOA_V
ClientSampleId :

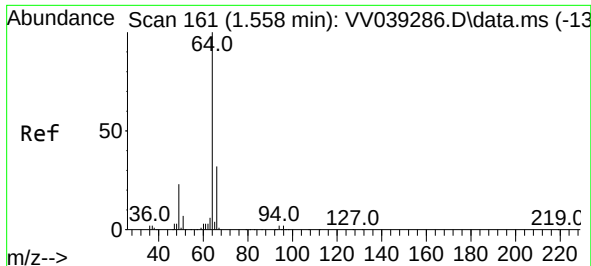
Tgt Ion:168 Resp: 659851
Ion Ratio Lower Upper
168 100
99 61.3 46.6 70.0



#3
Chloromethane
Concen: 0.240 ug/l
RT: 1.230 min Scan# 59
Delta R.T. -0.000 min
Lab File: VV039311.D
Acq: 04 Nov 2025 13:49

Tgt Ion: 50 Resp: 2080
Ion Ratio Lower Upper
50 100
52 21.3 26.6 39.8#

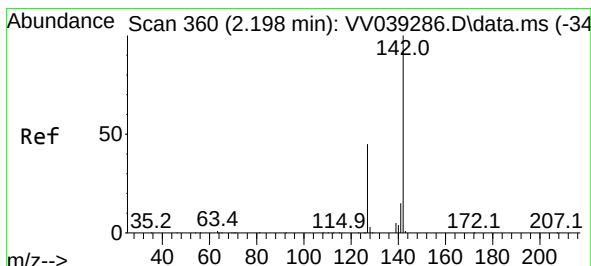
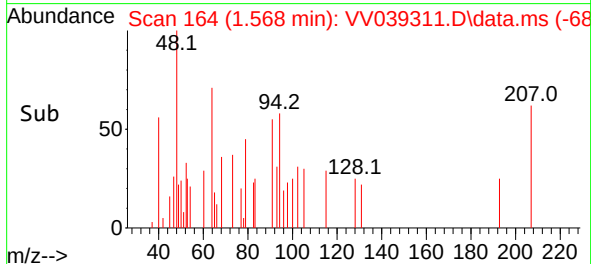
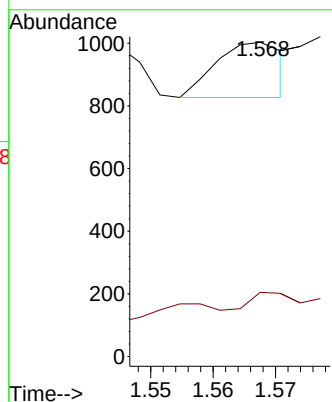
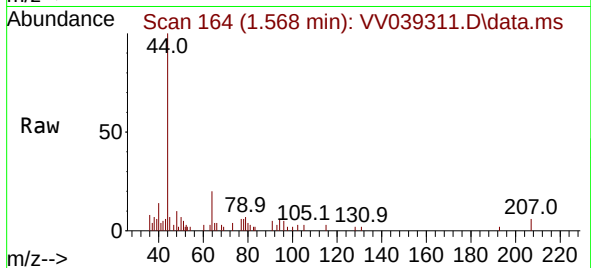




#6
Chloroethane
Concen: Below Cal
RT: 1.568 min Scan# 1
Delta R.T. 0.010 min
Lab File: VV039311.D
Acq: 04 Nov 2025 13:49

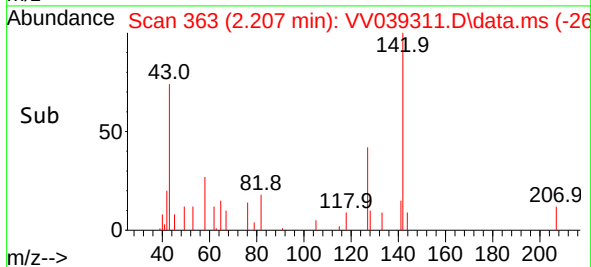
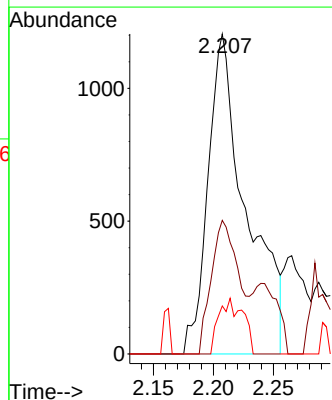
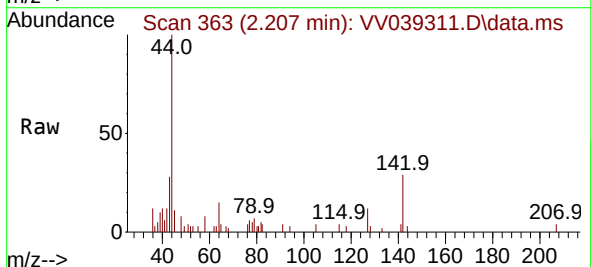
Instrument :
MSVOA_V
ClientSampleId :

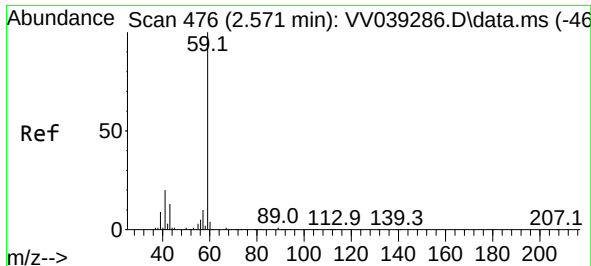
Tgt Ion: 64 Resp: 130
Ion Ratio Lower Upper
64 100
66 21.0 25.7 38.5#



#10
Methyl Iodide
Concen: 0.341 ug/l
RT: 2.207 min Scan# 363
Delta R.T. 0.010 min
Lab File: VV039311.D
Acq: 04 Nov 2025 13:49

Tgt Ion: 142 Resp: 2665
Ion Ratio Lower Upper
142 100
127 30.5 35.5 53.3#
141 11.0 11.5 17.3#

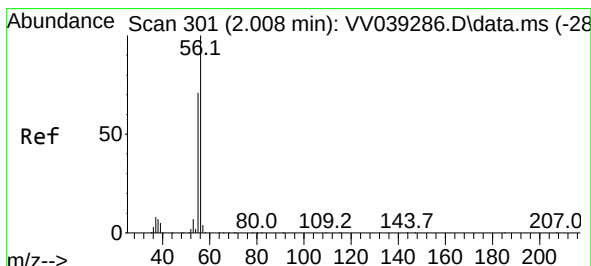
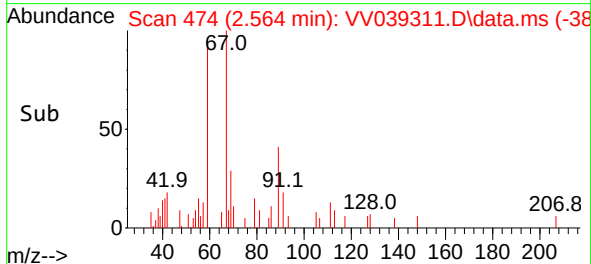
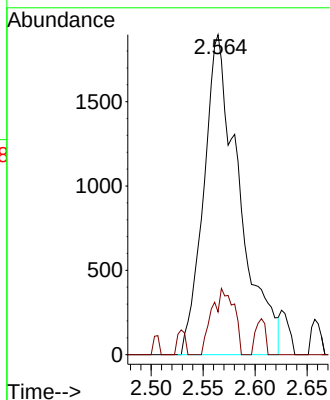
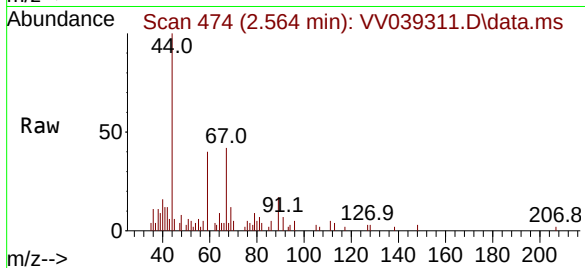




#11
Tert butyl alcohol
Concen: 2.483 ug/l
RT: 2.564 min Scan# 41
Delta R.T. -0.006 min
Lab File: VV039311.D
Acq: 04 Nov 2025 13:49

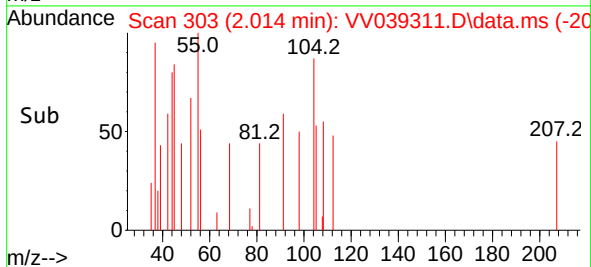
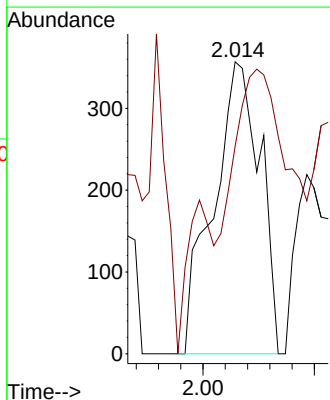
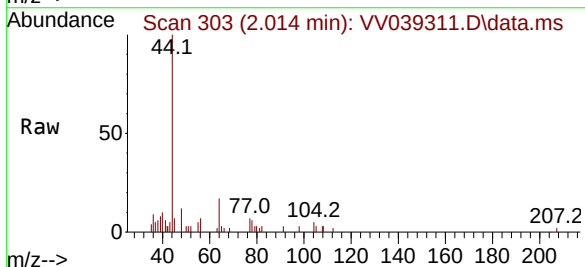
Instrument :
MSVOA_V
ClientSampleId :

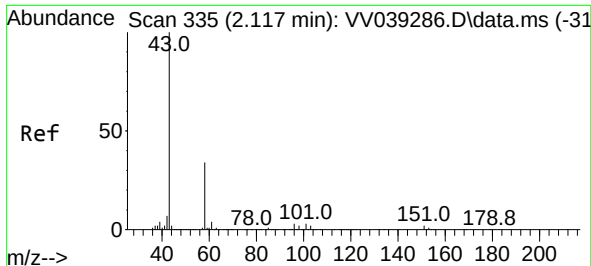
Tgt Ion: 59 Resp: 4511
Ion Ratio Lower Upper
59 100
57 12.8 8.1 12.1#



#13
Acrolein
Concen: Below Cal
RT: 2.014 min Scan# 303
Delta R.T. 0.006 min
Lab File: VV039311.D
Acq: 04 Nov 2025 13:49

Tgt Ion: 56 Resp: 521
Ion Ratio Lower Upper
56 100
55 69.7 56.2 84.4

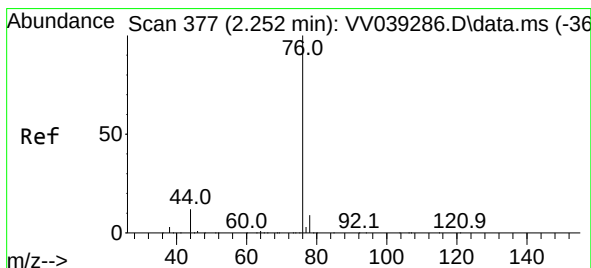
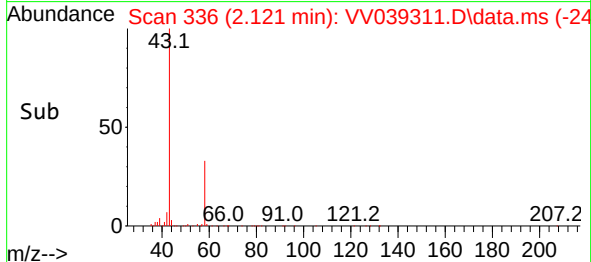
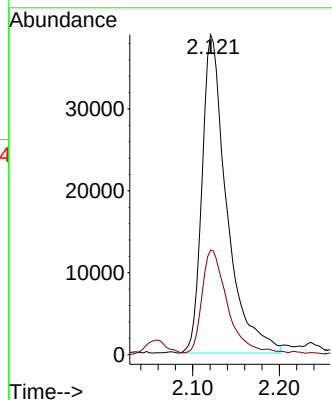
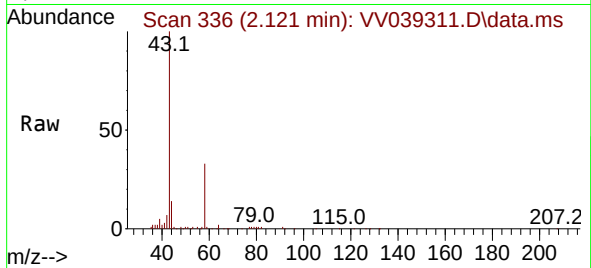




#16
Acetone
Concen: 7.765 ug/l
RT: 2.121 min Scan# 31
Delta R.T. 0.003 min
Lab File: VV039311.D
Acq: 04 Nov 2025 13:49

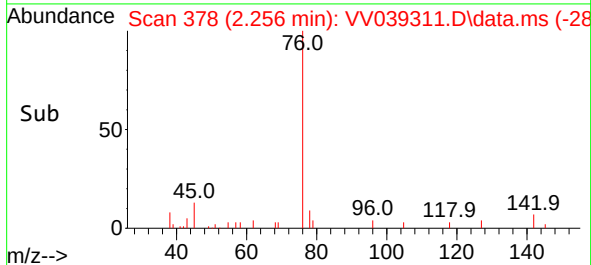
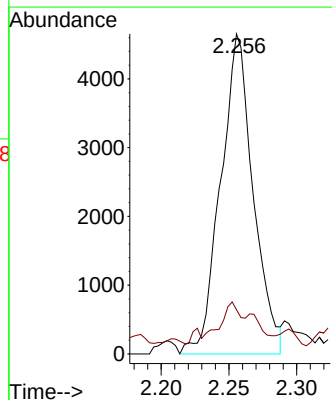
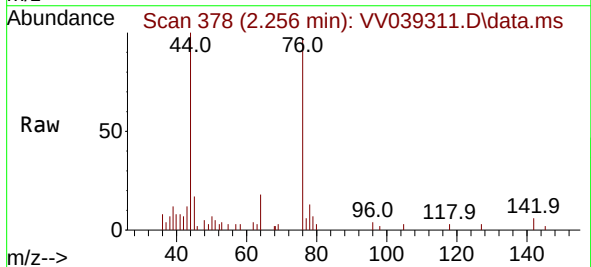
Instrument :
MSVOA_V
ClientSampleId :

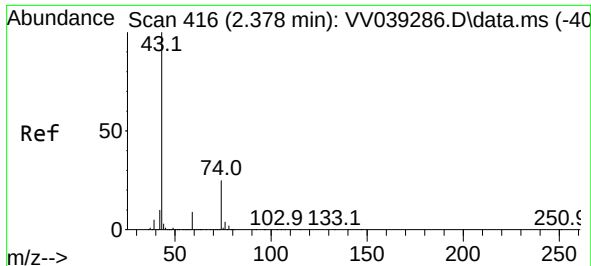
Tgt Ion: 43 Resp: 77273
Ion Ratio Lower Upper
43 100
58 32.2 27.5 41.3



#17
Carbon Disulfide
Concen: 0.309 ug/l
RT: 2.256 min Scan# 378
Delta R.T. 0.003 min
Lab File: VV039311.D
Acq: 04 Nov 2025 13:49

Tgt Ion: 76 Resp: 7768
Ion Ratio Lower Upper
76 100
78 9.8 7.4 11.0

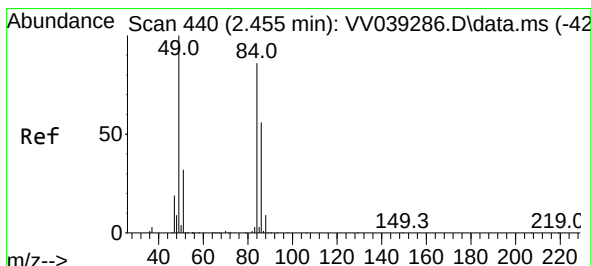
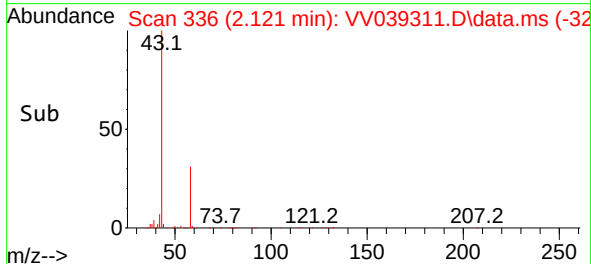
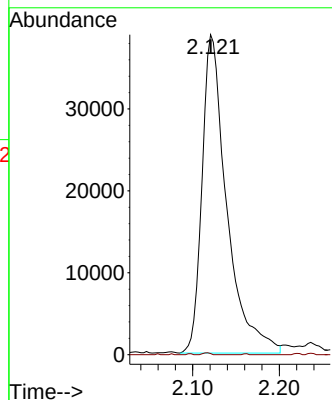
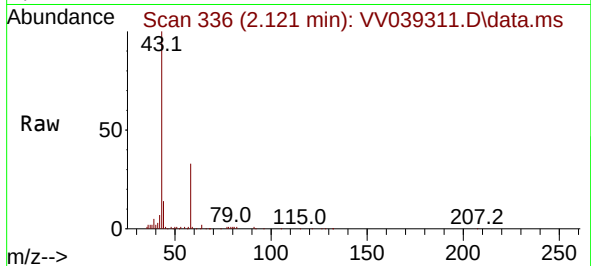




#18
Methyl Acetate
Concen: 6.360 ug/l
RT: 2.121 min Scan# 31
Delta R.T. -0.257 min
Lab File: VV039311.D
Acq: 04 Nov 2025 13:49

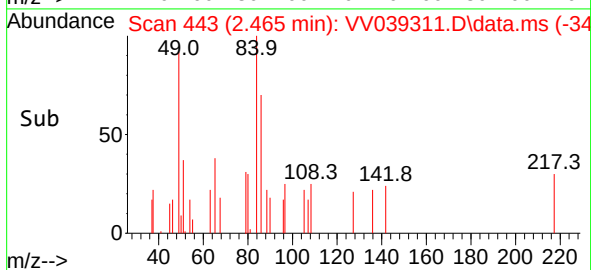
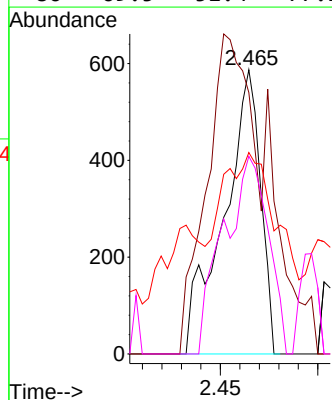
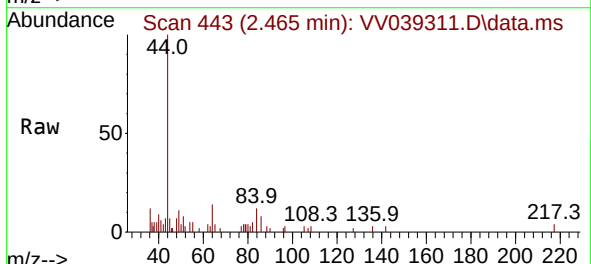
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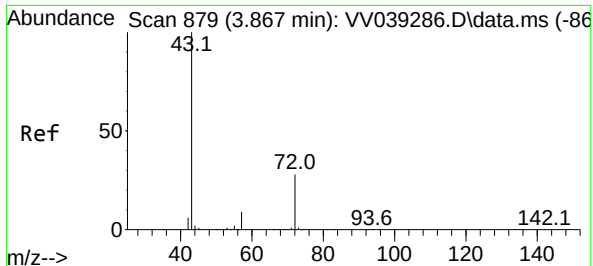
Tgt Ion: 43 Resp: 77273
Ion Ratio Lower Upper
43 100
74 0.2 19.5 29.3#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.465 min Scan# 443
Delta R.T. 0.010 min
Lab File: VV039311.D
Acq: 04 Nov 2025 13:49

Tgt Ion: 84 Resp: 766
Ion Ratio Lower Upper
84 100
49 92.0 92.6 139.0#
51 26.7 29.6 44.4#
86 69.5 51.4 77.2





#25

2-Butanone

Concen: 1.922 ug/l

RT: 3.908 min Scan# 892

Delta R.T. 0.042 min

Lab File: VV039311.D

Acq: 04 Nov 2025 13:49

Instrument :

MSVOA_V

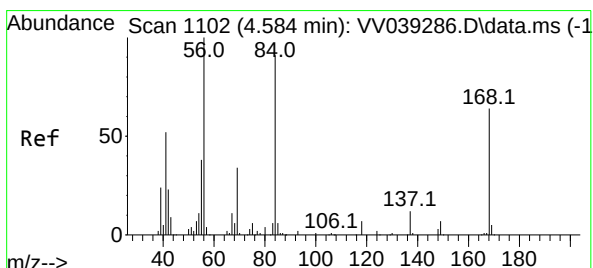
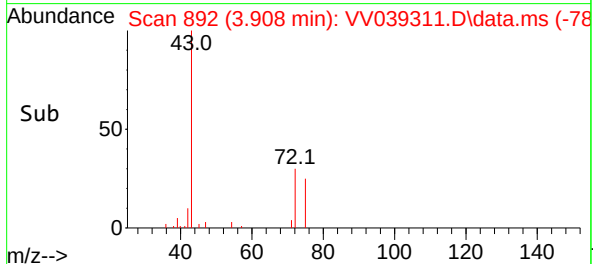
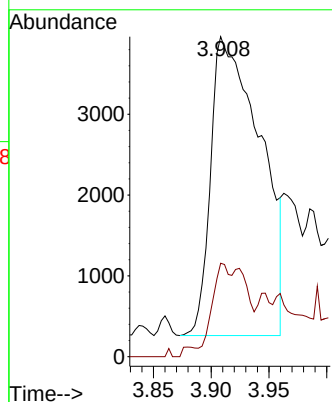
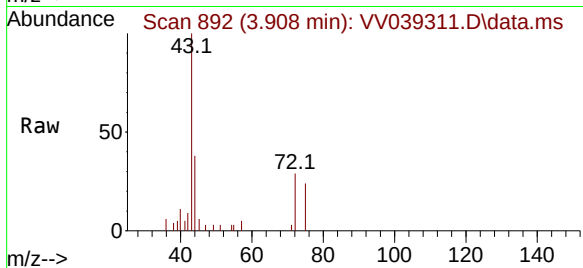
ClientSampleId :

Tgt Ion: 43 Resp: 11022

Ion Ratio Lower Upper

43 100

72 31.3 22.6 34.0



#31

Cyclohexane

Concen: 1.075 ug/l

RT: 4.596 min Scan# 1106

Delta R.T. 0.013 min

Lab File: VV039311.D

Acq: 04 Nov 2025 13:49

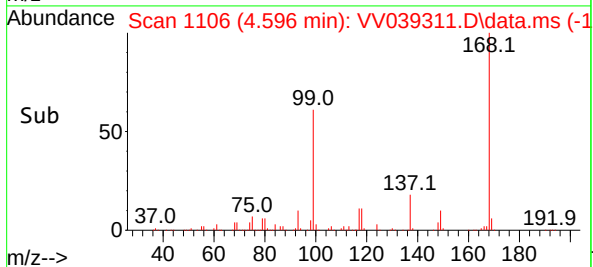
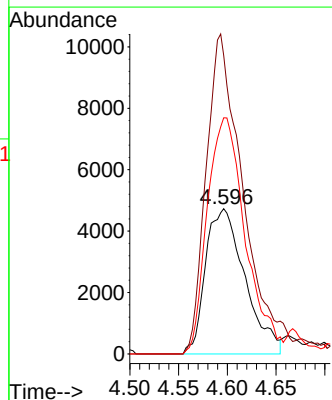
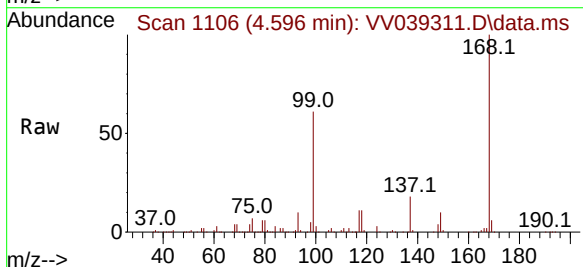
Tgt Ion: 56 Resp: 13285

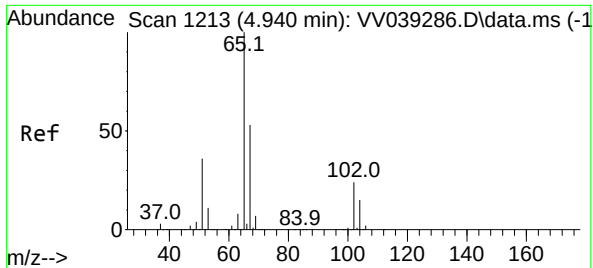
Ion Ratio Lower Upper

56 100

69 205.5 27.4 41.0#

84 162.7 72.8 109.2#

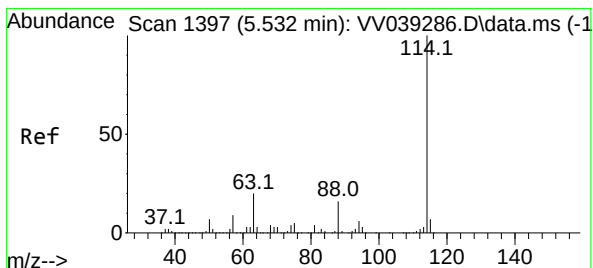
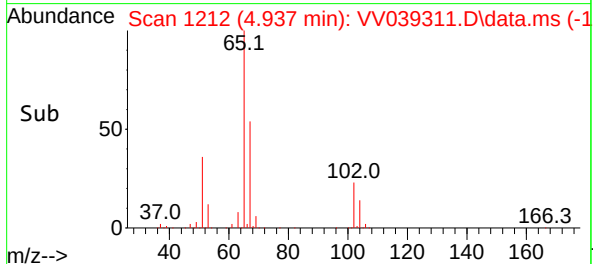
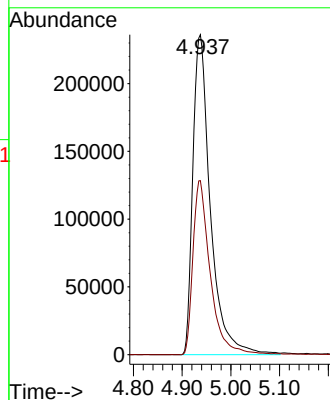
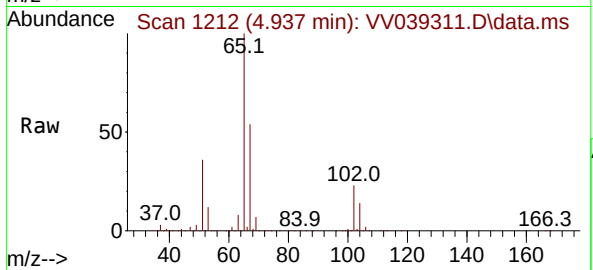




#33
 1,2-Dichloroethane-d4
 Concen: 63.122 ug/l
 RT: 4.937 min Scan# 11
 Delta R.T. -0.003 min
 Lab File: VV039311.D
 Acq: 04 Nov 2025 13:49

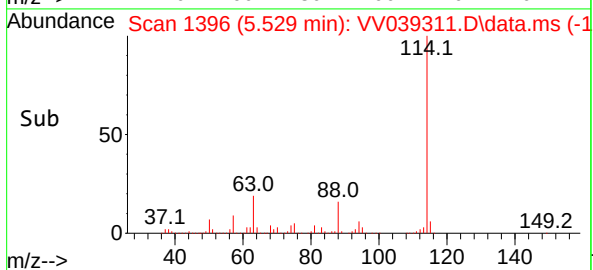
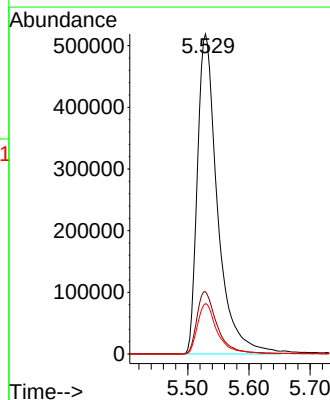
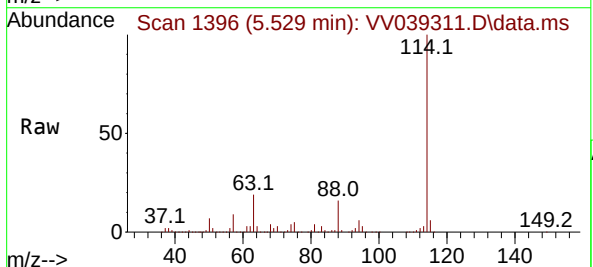
Instrument :
 MSVOA_V
 ClientSampleId :

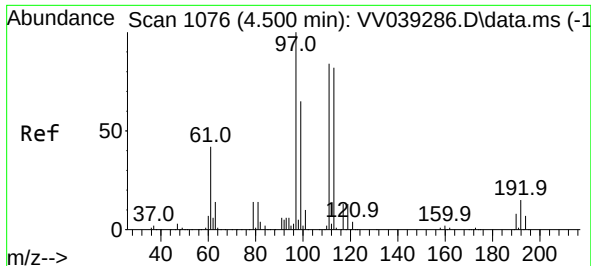
Tgt Ion: 65 Resp: 591835
 Ion Ratio Lower Upper
 65 100
 67 53.5 0.0 108.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.529 min Scan# 1396
 Delta R.T. -0.003 min
 Lab File: VV039311.D
 Acq: 04 Nov 2025 13:49

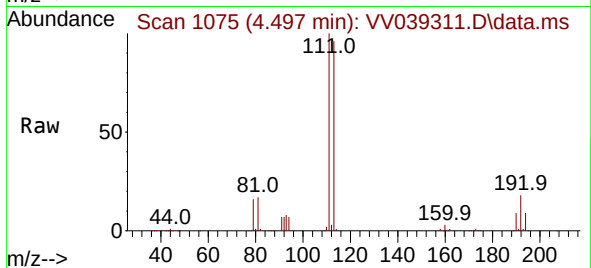
Tgt Ion: 114 Resp: 1187277
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 39.6
 88 15.7 0.0 31.6



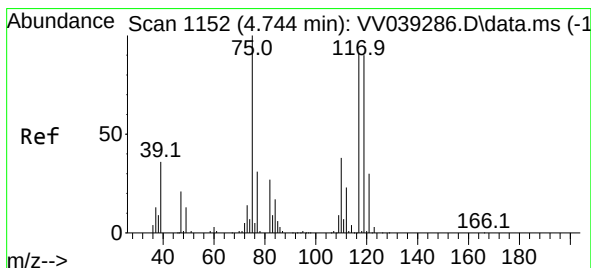
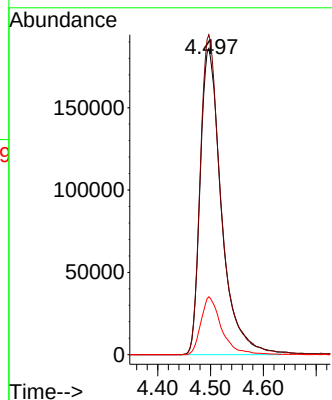
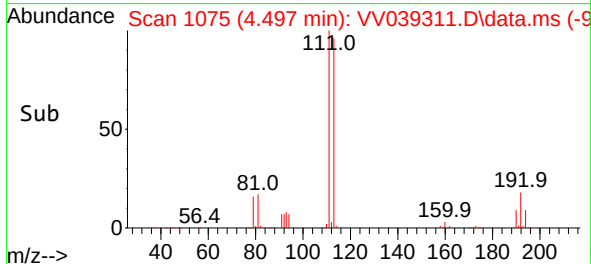


#35
Dibromofluoromethane
Concen: 55.544 ug/l
RT: 4.497 min Scan# 1105
Delta R.T. -0.003 min
Lab File: VV039311.D
Acq: 04 Nov 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :

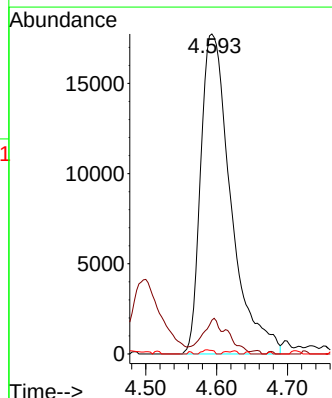
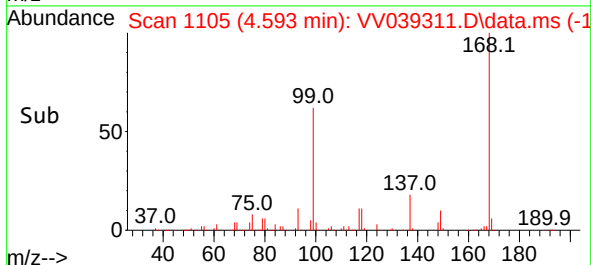
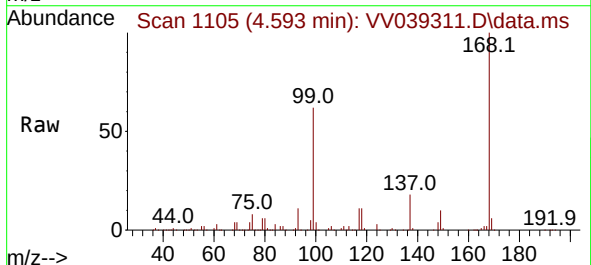


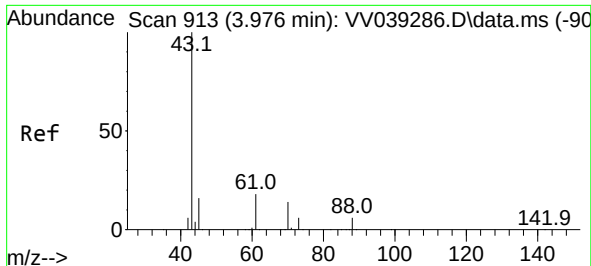
Tgt Ion:113 Resp: 519604
Ion Ratio Lower Upper
113 100
111 103.1 82.0 123.0
192 18.4 14.3 21.5



#36
1,1-Dichloropropene
Concen: 4.452 ug/l
RT: 4.593 min Scan# 1105
Delta R.T. -0.151 min
Lab File: VV039311.D
Acq: 04 Nov 2025 13:49

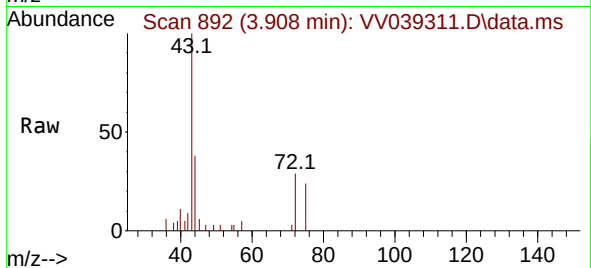
Tgt Ion: 75 Resp: 52308
Ion Ratio Lower Upper
75 100
110 4.5 18.9 56.7#
77 0.5 24.1 36.1#



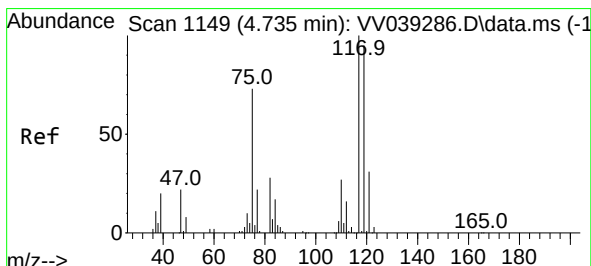
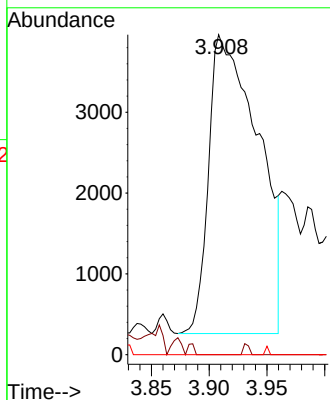
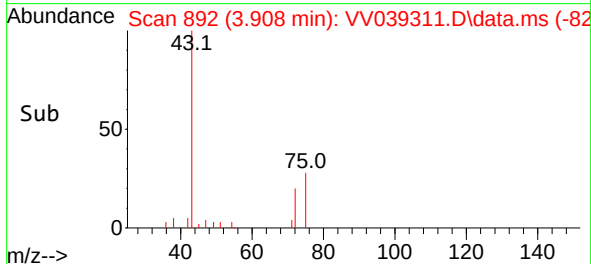


#37
Ethyl Acetate
Concen: 0.801 ug/l
RT: 3.908 min Scan# 892
Delta R.T. -0.068 min
Lab File: VV039311.D
Acq: 04 Nov 2025 13:49

Instrument :
MSVOA_V
ClientSampleId :

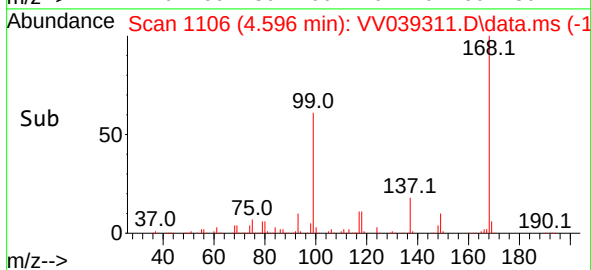
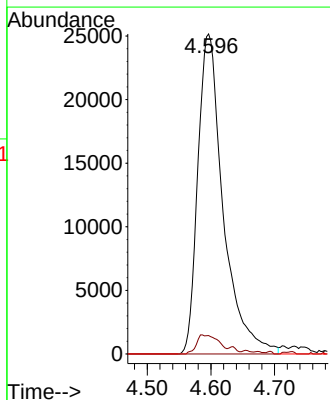
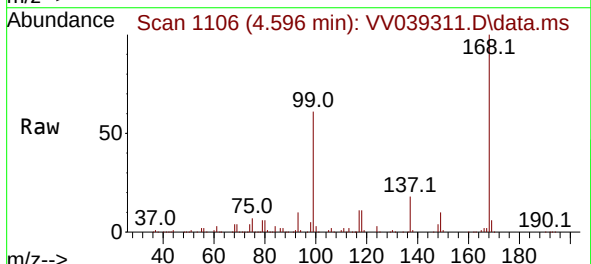


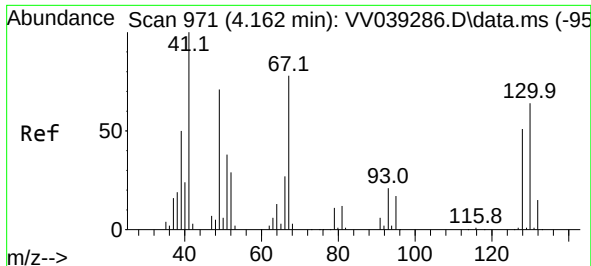
Tgt Ion: 43 Resp: 11022
Ion Ratio Lower Upper
43 100
61 0.0 12.2 18.2#
70 0.0 9.0 13.4#



#38
Carbon Tetrachloride
Concen: 4.863 ug/l
RT: 4.596 min Scan# 1106
Delta R.T. -0.138 min
Lab File: VV039311.D
Acq: 04 Nov 2025 13:49

Tgt Ion: 117 Resp: 69619
Ion Ratio Lower Upper
117 100
119 5.7 75.9 113.9#
121 0.0 24.6 37.0#

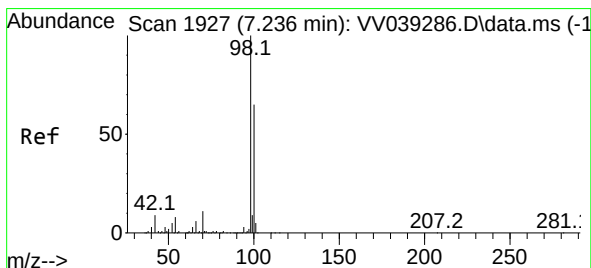
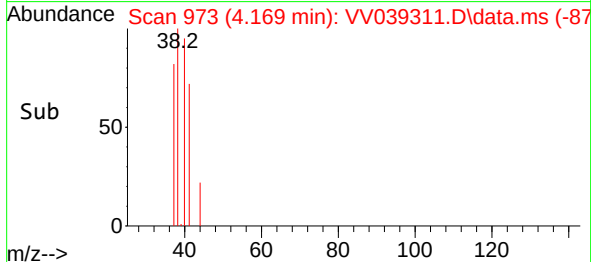
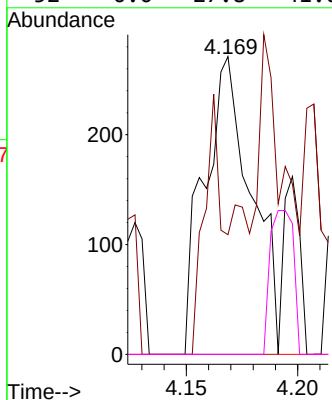
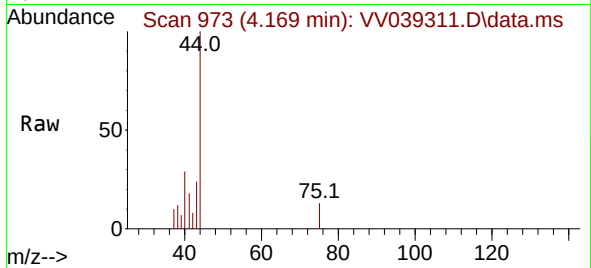




#41
Methacrylonitrile
Concen: 1.757 ug/l
RT: 4.169 min Scan# 91
Delta R.T. 0.006 min
Lab File: VV039311.D
Acq: 04 Nov 2025 13:49

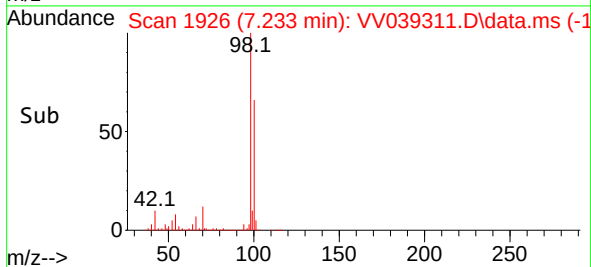
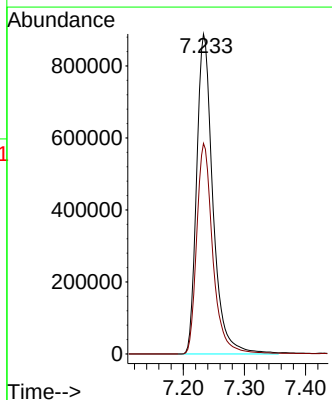
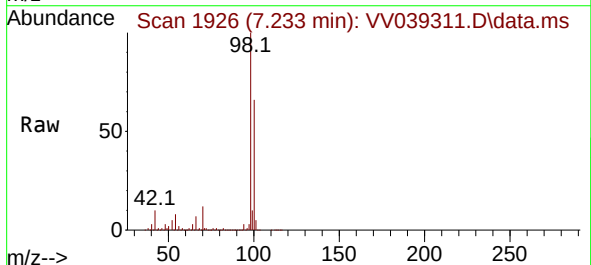
Instrument :
MSVOA_V
ClientSampleId :

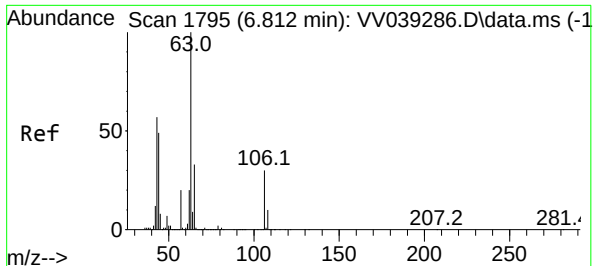
Tgt Ion: 41 Resp: 399
Ion Ratio Lower Upper
41 100
39 34.1 40.9 61.3#
67 0.0 73.1 109.7#
52 0.0 27.8 41.6#



#50
Toluene-d8
Concen: 51.603 ug/l
RT: 7.233 min Scan# 1926
Delta R.T. -0.003 min
Lab File: VV039311.D
Acq: 04 Nov 2025 13:49

Tgt Ion: 98 Resp: 1642276
Ion Ratio Lower Upper
98 100
100 65.2 52.8 79.2

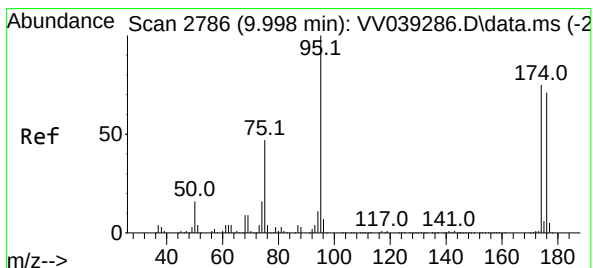
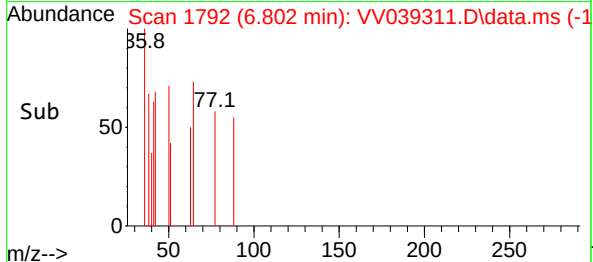
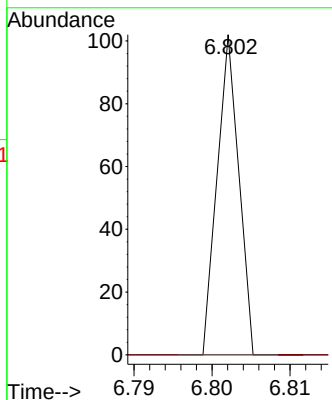
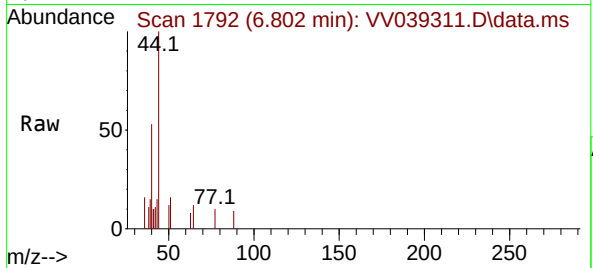




#58
2-Chloroethyl Vinyl ether
Concen: 8.470 ug/l
RT: 6.802 min Scan# 11
Delta R.T. -0.010 min
Lab File: VV039311.D
Acq: 04 Nov 2025 13:49

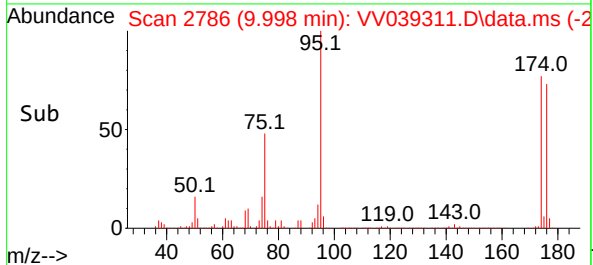
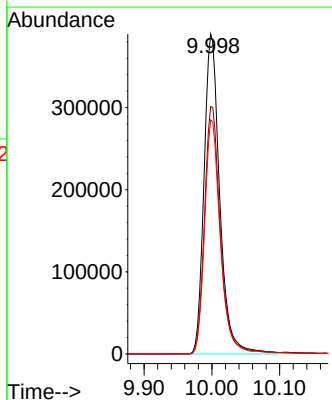
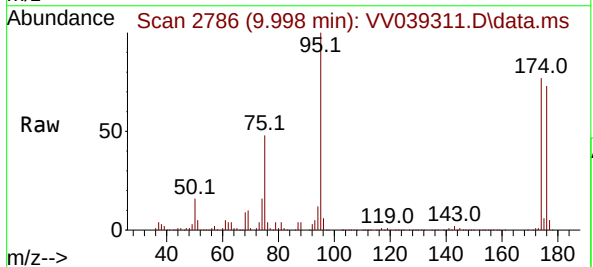
Instrument :
MSVOA_V
ClientSampleId :

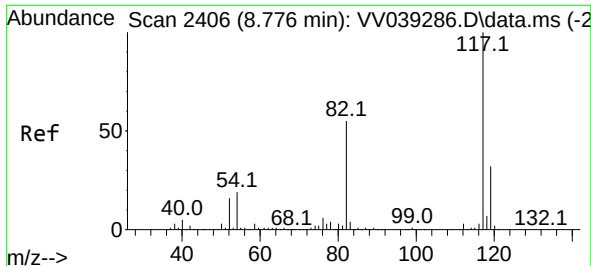
Tgt Ion: 63 Resp: 20
Ion Ratio Lower Upper
63 100
106 0.0 23.5 35.3#



#62
4-Bromofluorobenzene
Concen: 55.418 ug/l
RT: 9.998 min Scan# 2786
Delta R.T. -0.000 min
Lab File: VV039311.D
Acq: 04 Nov 2025 13:49

Tgt Ion: 95 Resp: 628109
Ion Ratio Lower Upper
95 100
174 77.8 0.0 153.6
176 73.6 0.0 146.0

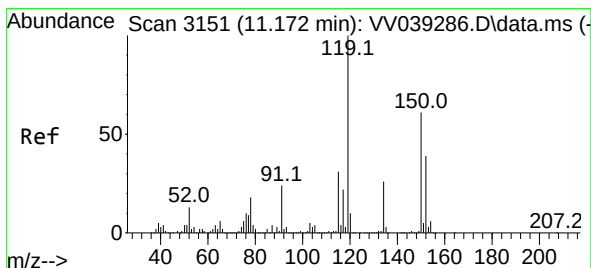
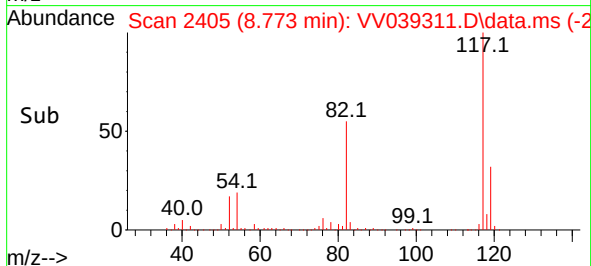
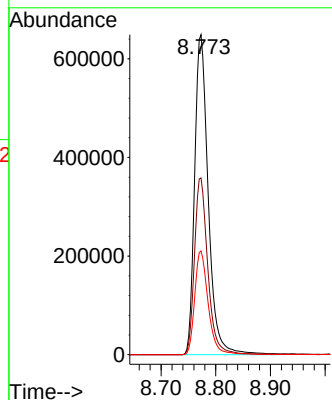
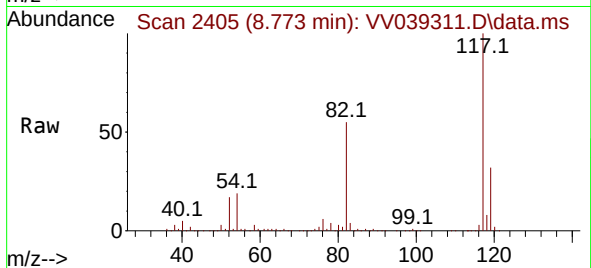




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.773 min Scan# 2406
Delta R.T. -0.003 min
Lab File: VV039311.D
Acq: 04 Nov 2025 13:49

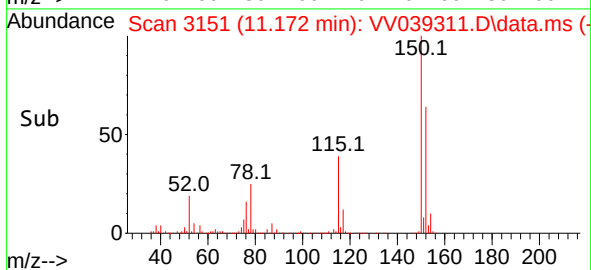
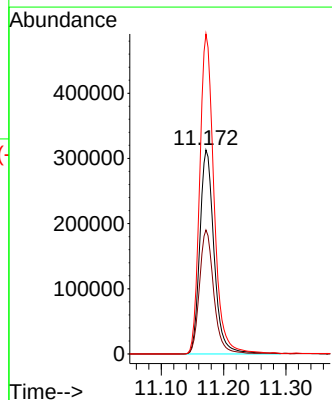
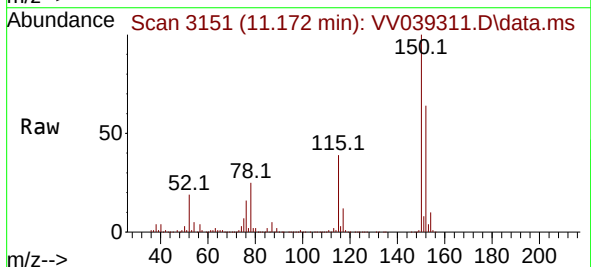
Instrument :
MSVOA_V
ClientSampleId :

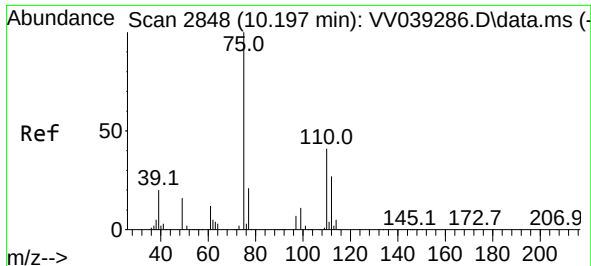
Tgt Ion:117 Resp: 1121779
Ion Ratio Lower Upper
117 100
82 55.2 43.8 65.8
119 32.4 25.8 38.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3151
Delta R.T. -0.000 min
Lab File: VV039311.D
Acq: 04 Nov 2025 13:49

Tgt Ion:152 Resp: 499329
Ion Ratio Lower Upper
152 100
115 60.7 42.3 126.8
150 156.6 0.0 348.0

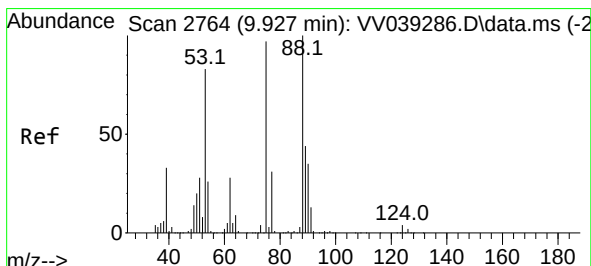
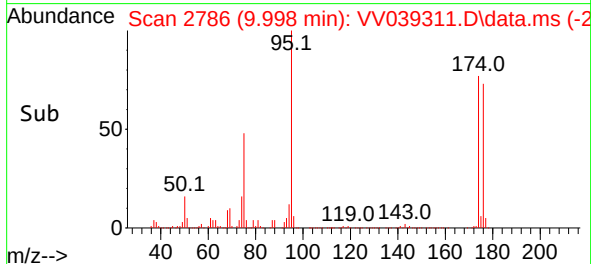
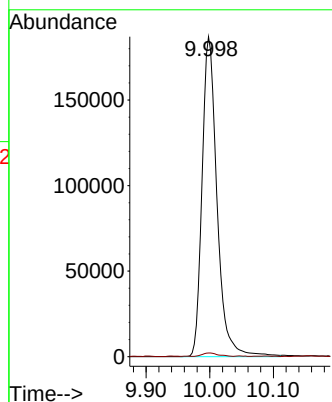
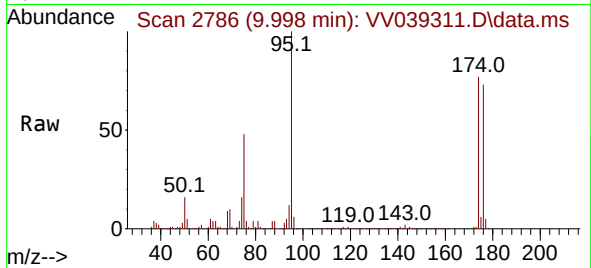




#76
1,2,3-Trichloropropane
Concen: 30.643 ug/l
RT: 9.998 min Scan# 2786
Delta R.T. -0.199 min
Lab File: VV039311.D
Acq: 04 Nov 2025 13:49

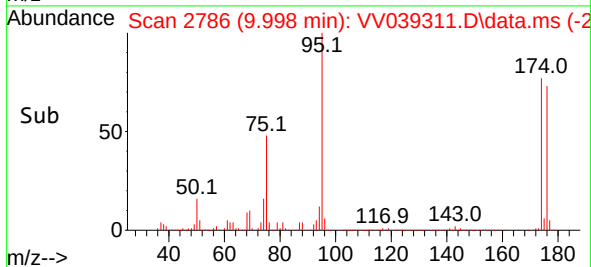
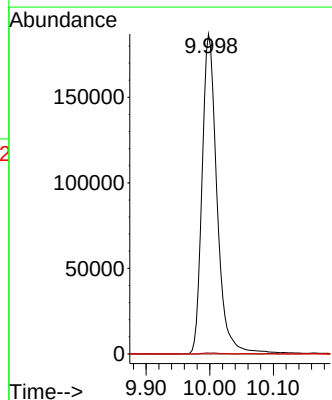
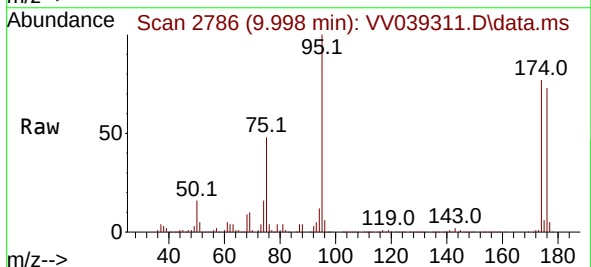
Instrument :
MSVOA_V
ClientSampleId :

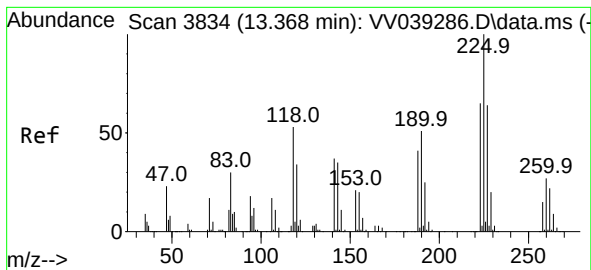
Tgt Ion: 75 Resp: 305392
Ion Ratio Lower Upper
75 100
77 1.2 12.2 36.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 77.389 ug/l
RT: 9.998 min Scan# 2786
Delta R.T. 0.071 min
Lab File: VV039311.D
Acq: 04 Nov 2025 13:49

Tgt Ion: 75 Resp: 305392
Ion Ratio Lower Upper
75 100
53 0.2 69.9 104.9#
89 0.0 37.4 56.0#





#94

Hexachlorobutadiene

Concen: 0.323 ug/l

RT: 13.371 min Scan# 3835

Delta R.T. 0.003 min

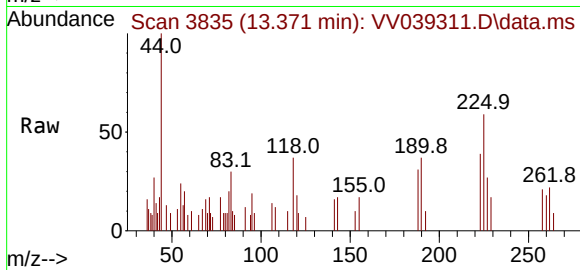
Lab File: VV039311.D

Acq: 04 Nov 2025 13:49

Instrument :

MSVOA_V

ClientSampleId :



Tgt Ion:	225	Resp:	1443
Ion	Ratio	Lower	Upper
225	100		
223	61.0	31.3	93.8
227	60.1	31.7	95.1

