

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV110525\
 Data File : VV039333.D
 Acq On : 05 Nov 2025 13:54
 Operator : SY/MD
 Sample : Q3534-03RE
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Nov 06 00:14:37 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)

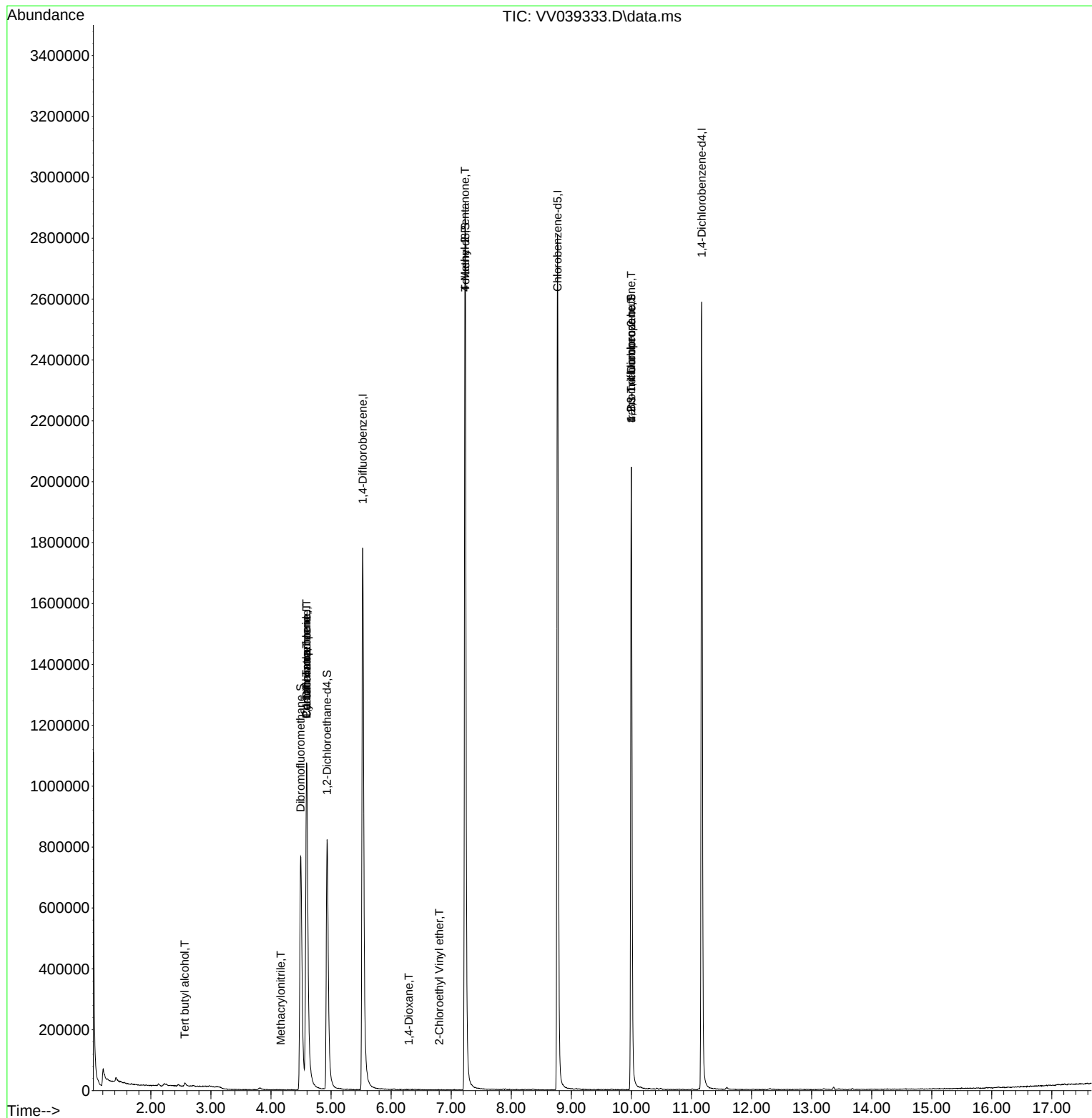
Internal Standards						
1) Pentafluorobenzene	4.593	168	938043	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.529	114	1744872	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.770	117	1594094	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	693574	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.934	65	730166	54.780	ug/l	0.00
Spiked Amount	50.000	Range	81 - 118	Recovery	= 109.560%	
35) Dibromofluoromethane	4.494	113	646489	47.023	ug/l	0.00
Spiked Amount	50.000	Range	80 - 119	Recovery	= 94.040%	
50) Toluene-d8	7.233	98	2079730	44.466	ug/l	0.00
Spiked Amount	50.000	Range	89 - 112	Recovery	= 88.940%#	
62) 4-Bromofluorobenzene	9.998	95	694449	41.691	ug/l	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	= 83.380%#	
Target Compounds						
					Qvalue	
6) Chloroethane	1.664	64	1215	Below Cal	#	46
11) Tert butyl alcohol	2.564	59	3211	1.243	ug/l #	93
13) Acrolein	2.011	56	118	Below Cal	#	15
16) Acetone	2.124	43	6672	Below Cal		93
20) Methylene Chloride	2.455	84	1790	Below Cal	#	90
31) Cyclohexane	4.593	56	18658	1.062	ug/l #	1
36) 1,1-Dichloropropene	4.593	75	75317	4.362	ug/l #	48
38) Carbon Tetrachloride	4.593	117	98261	4.671	ug/l #	17
41) Methacrylonitrile	4.166	41	45	1.696	ug/l #	1
49) 1,4-Dioxane	6.294	88	92	0.451	ug/l #	23
51) 4-Methyl-2-Pentanone	7.230	43	7135	0.389	ug/l #	1
58) 2-Chloroethyl Vinyl ether	6.802	63	135	8.480	ug/l #	45
76) 1,2,3-Trichloropropane	9.998	75	338787	24.474	ug/l #	53
81) trans-1,4-Dichloro-2-b...	9.998	75	338787	61.808	ug/l #	14

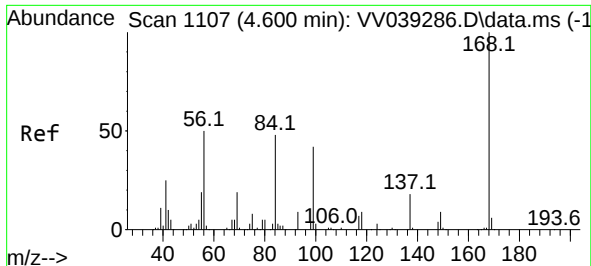
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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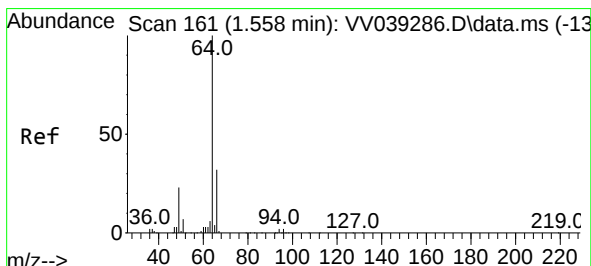
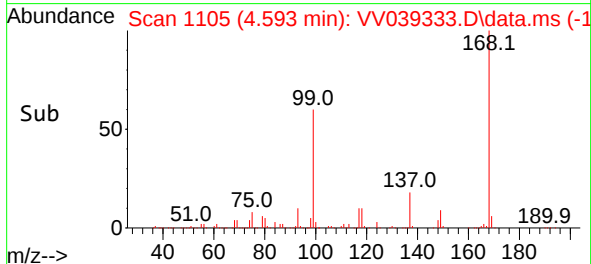
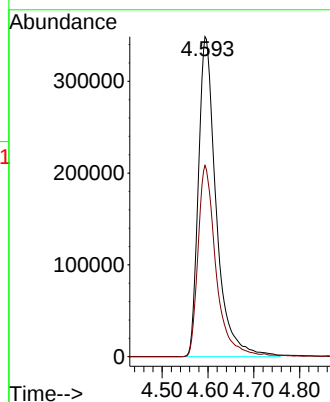
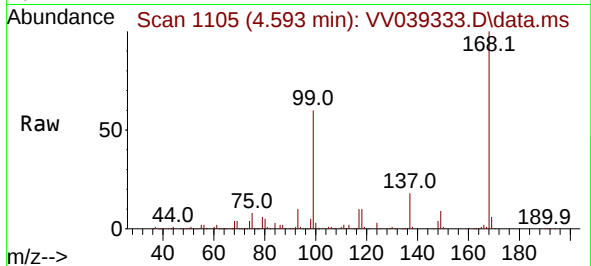




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.593 min Scan# 1105
Delta R.T. -0.007 min
Lab File: VV039333.D
Acq: 05 Nov 2025 13:54

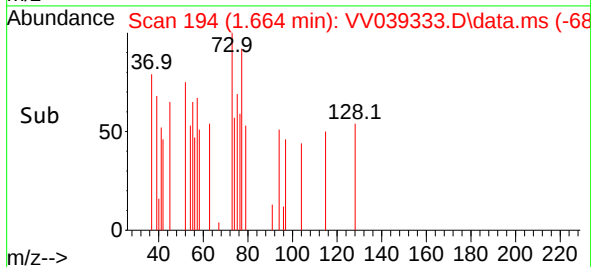
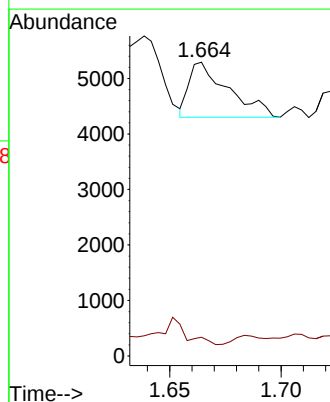
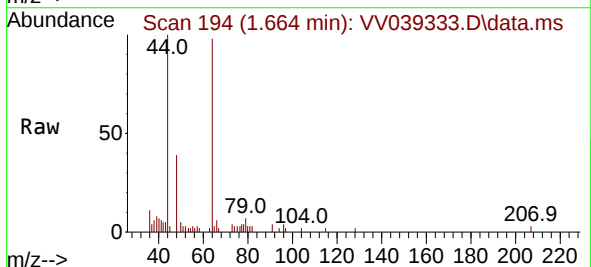
Instrument :
MSVOA_V
ClientSampleId :

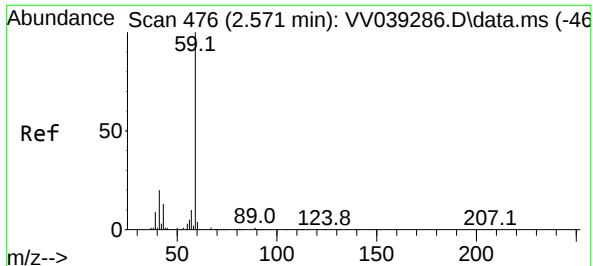
Tgt Ion:168 Resp: 938043
Ion Ratio Lower Upper
168 100
99 59.8 46.6 70.0



#6
Chloroethane
Concen: Below Cal
RT: 1.664 min Scan# 194
Delta R.T. 0.106 min
Lab File: VV039333.D
Acq: 05 Nov 2025 13:54

Tgt Ion: 64 Resp: 1215
Ion Ratio Lower Upper
64 100
66 1.7 25.7 38.5#





#11

Tert butyl alcohol

Concen: 1.243 ug/l

RT: 2.564 min Scan# 41

Delta R.T. -0.006 min

Lab File: VV039333.D

Acq: 05 Nov 2025 13:54

Instrument :

MSVOA_V

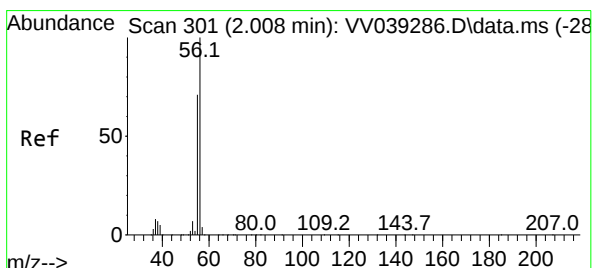
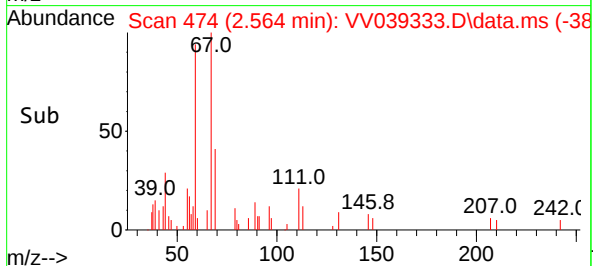
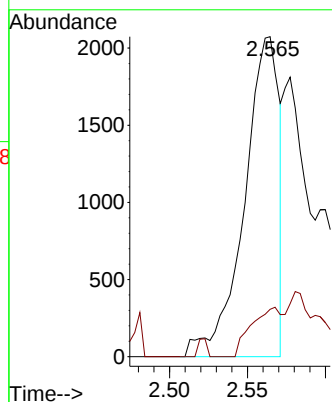
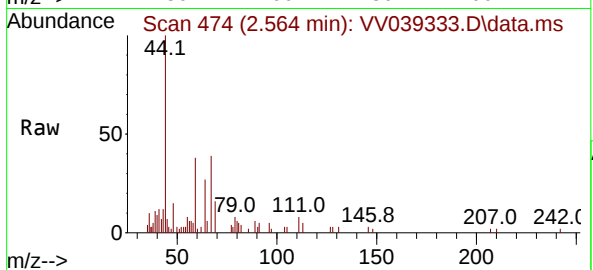
ClientSampleId :

Tgt Ion: 59 Resp: 3211

Ion Ratio Lower Upper

59 100

57 12.9 8.1 12.1#



#13

Acrolein

Concen: Below Cal

RT: 2.011 min Scan# 302

Delta R.T. 0.003 min

Lab File: VV039333.D

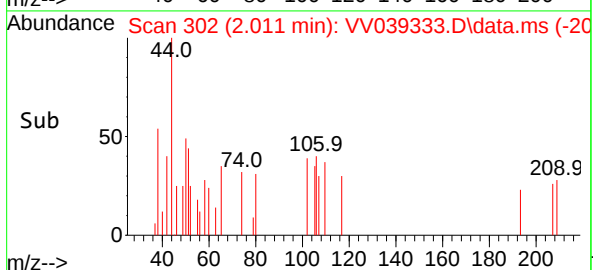
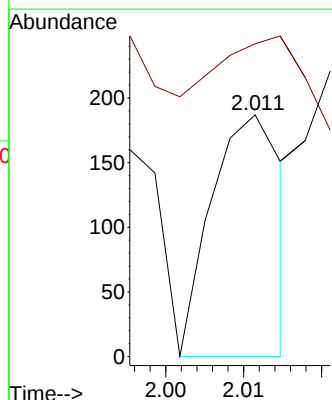
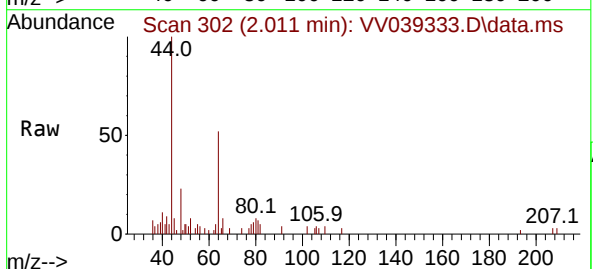
Acq: 05 Nov 2025 13:54

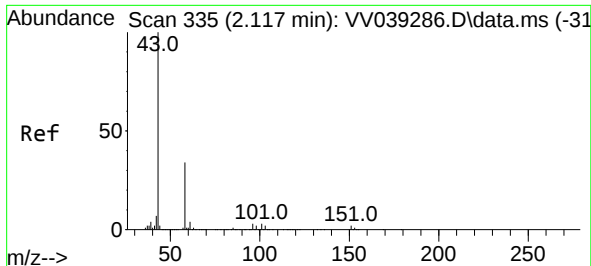
Tgt Ion: 56 Resp: 118

Ion Ratio Lower Upper

56 100

55 0.0 56.2 84.4#

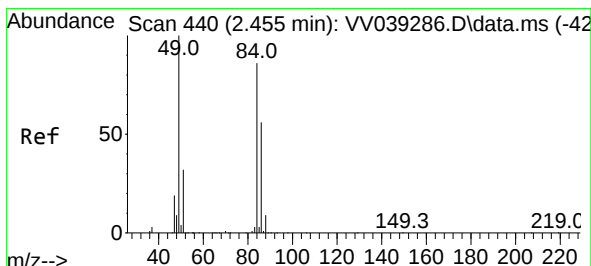
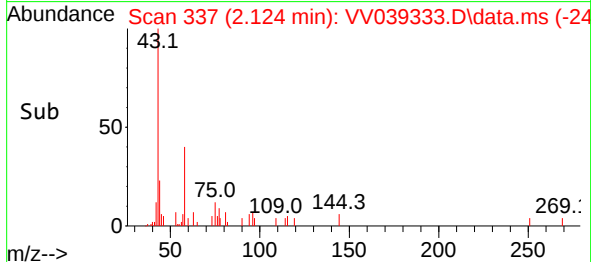
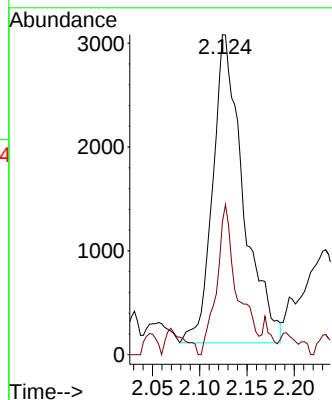
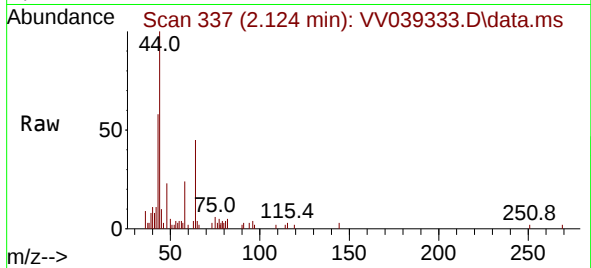




#16
Acetone
Concen: Below Cal
RT: 2.124 min Scan# 31
Delta R.T. 0.007 min
Lab File: VV039333.D
Acq: 05 Nov 2025 13:54

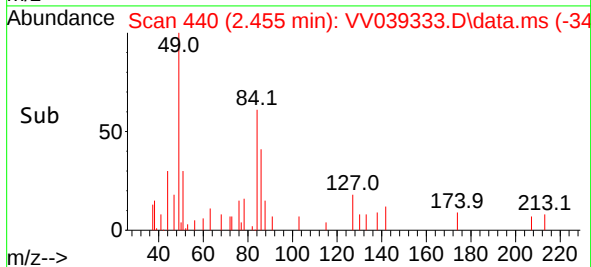
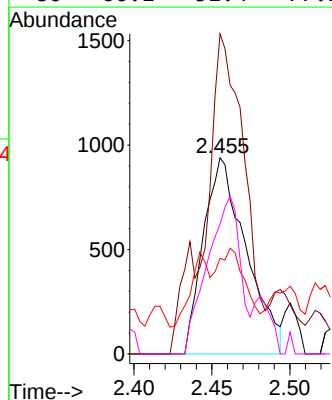
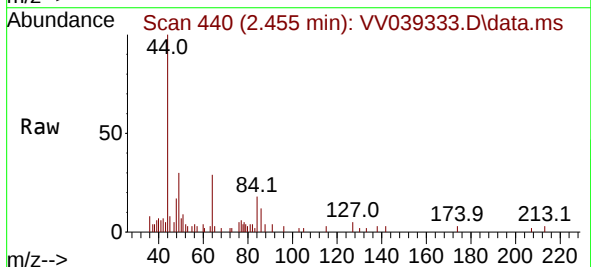
Instrument :
MSVOA_V
ClientSampleId :

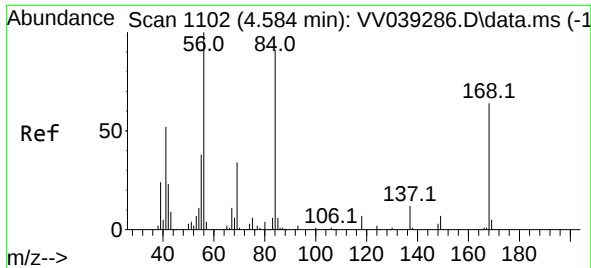
Tgt Ion: 43 Resp: 6672
Ion Ratio Lower Upper
43 100
58 38.2 27.5 41.3



#20
Methylene Chloride
Concen: Below Cal
RT: 2.455 min Scan# 440
Delta R.T. 0.000 min
Lab File: VV039333.D
Acq: 05 Nov 2025 13:54

Tgt Ion: 84 Resp: 1790
Ion Ratio Lower Upper
84 100
49 130.2 92.6 139.0
51 28.5 29.6 44.4#
86 66.1 51.4 77.2

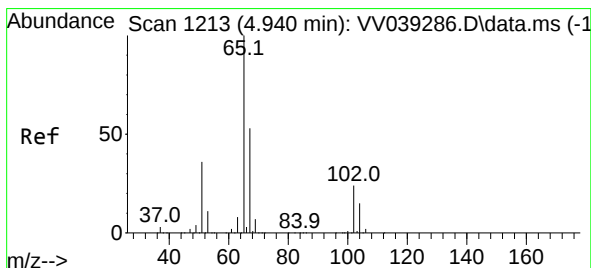
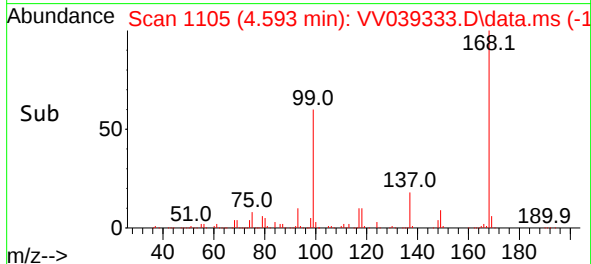
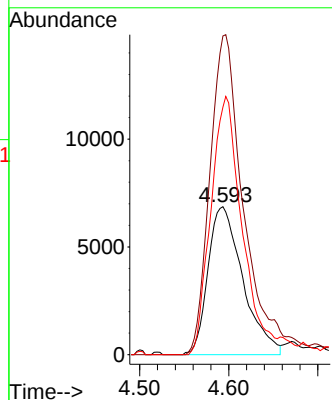
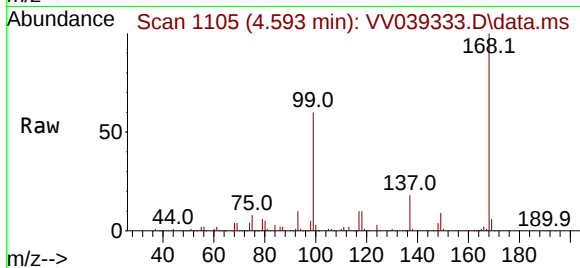




#31
Cyclohexane
Concen: 1.062 ug/l
RT: 4.593 min Scan# 1105
Delta R.T. 0.010 min
Lab File: VV039333.D
Acq: 05 Nov 2025 13:54

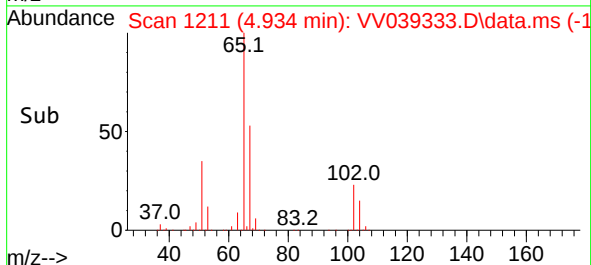
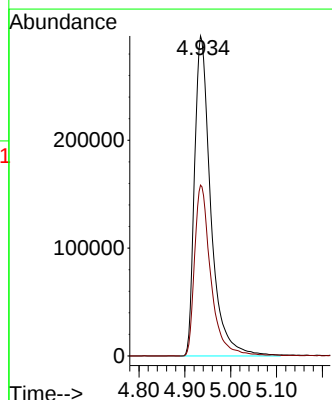
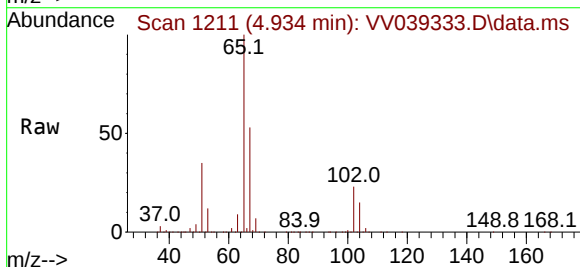
Instrument :
MSVOA_V
ClientSampleId :

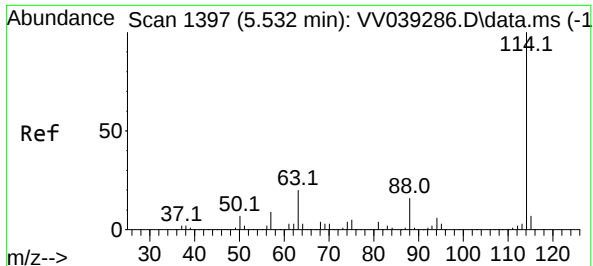
Tgt Ion: 56 Resp: 18658
Ion Ratio Lower Upper
56 100
69 215.5 27.4 41.0#
84 167.3 72.8 109.2#



#33
1,2-Dichloroethane-d4
Concen: 54.780 ug/l
RT: 4.934 min Scan# 1211
Delta R.T. -0.006 min
Lab File: VV039333.D
Acq: 05 Nov 2025 13:54

Tgt Ion: 65 Resp: 730166
Ion Ratio Lower Upper
65 100
67 53.3 0.0 108.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.529 min Scan# 114

Delta R.T. -0.003 min

Lab File: VV039333.D

Acq: 05 Nov 2025 13:54

Instrument :

MSVOA_V

ClientSampleId :

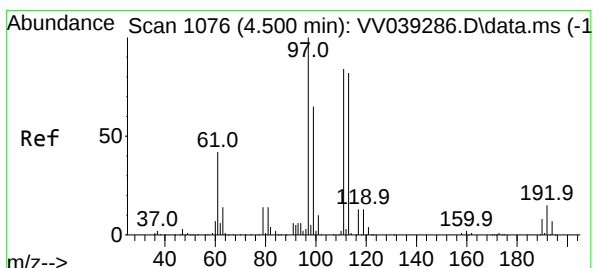
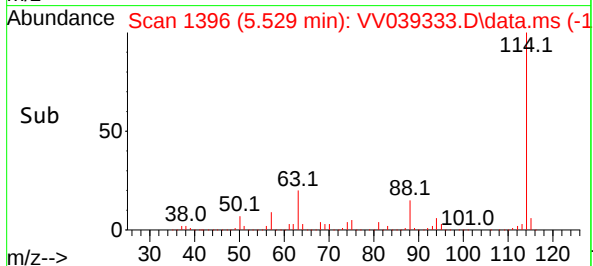
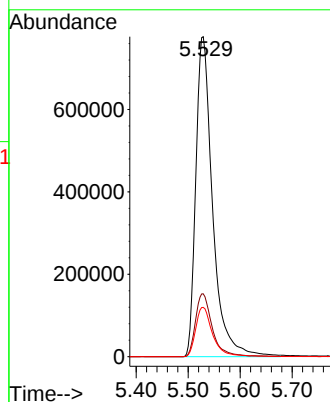
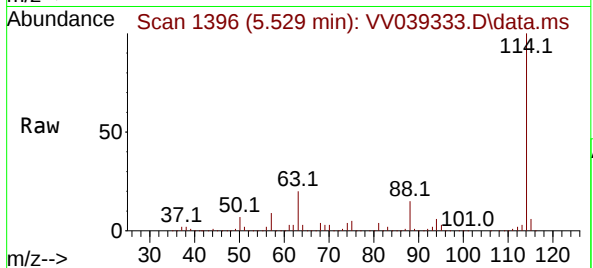
Tgt Ion:114 Resp: 1744872

Ion Ratio Lower Upper

114 100

63 19.7 0.0 39.6

88 15.4 0.0 31.6



#35

Dibromofluoromethane

Concen: 47.023 ug/l

RT: 4.494 min Scan# 1074

Delta R.T. -0.006 min

Lab File: VV039333.D

Acq: 05 Nov 2025 13:54

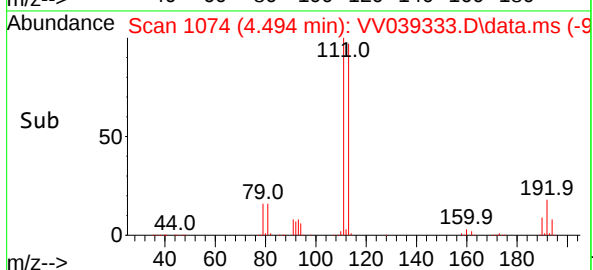
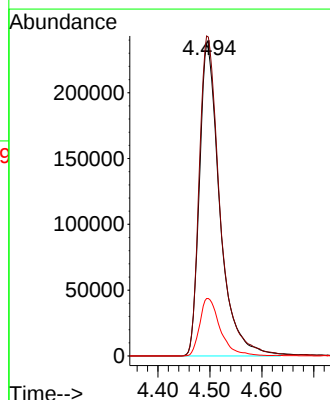
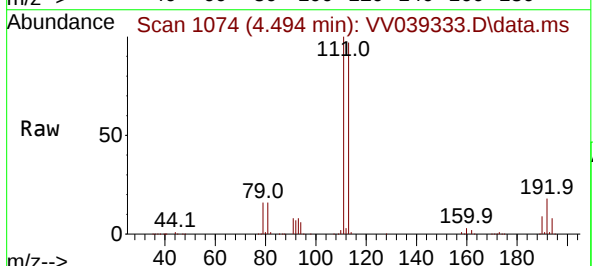
Tgt Ion:113 Resp: 646489

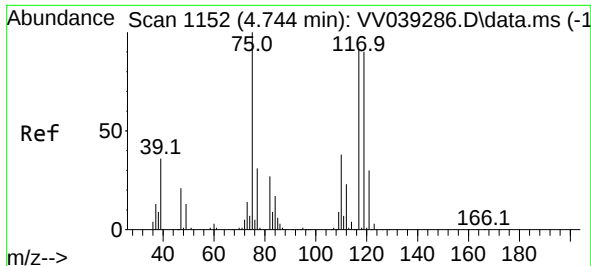
Ion Ratio Lower Upper

113 100

111 103.9 82.0 123.0

192 18.6 14.3 21.5





#36

1,1-Dichloropropene

Concen: 4.362 ug/l

RT: 4.593 min Scan# 1105

Delta R.T. -0.151 min

Lab File: VV039333.D

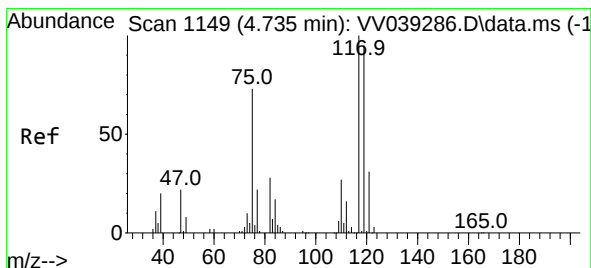
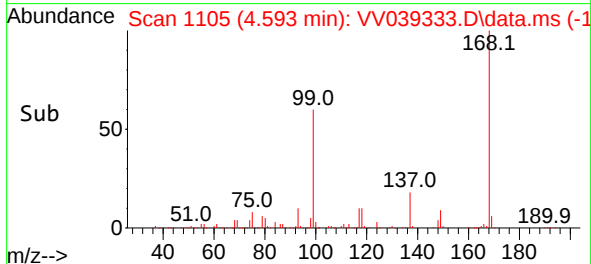
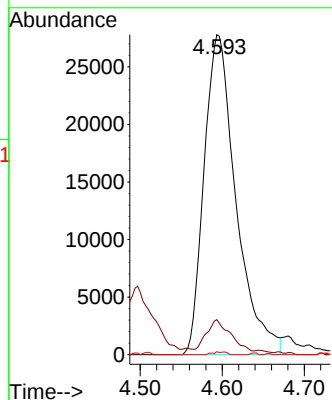
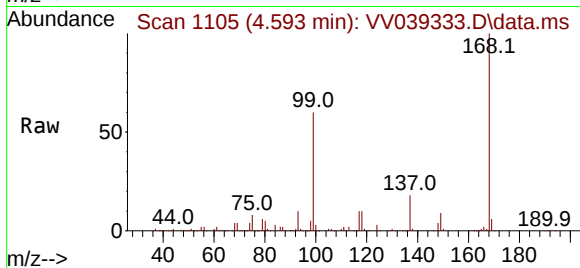
Acq: 05 Nov 2025 13:54

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion:	75	Resp:	75317
Ion Ratio	Lower	Upper	
75	100		
110	7.5	18.9	56.7#
77	0.4	24.1	36.1#



#38

Carbon Tetrachloride

Concen: 4.671 ug/l

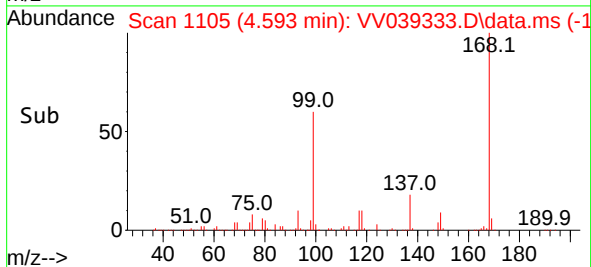
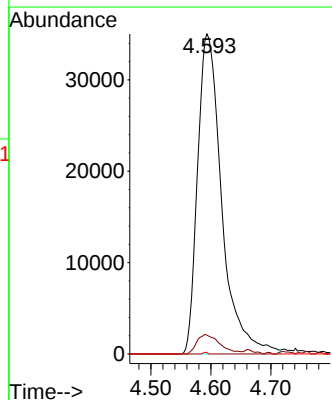
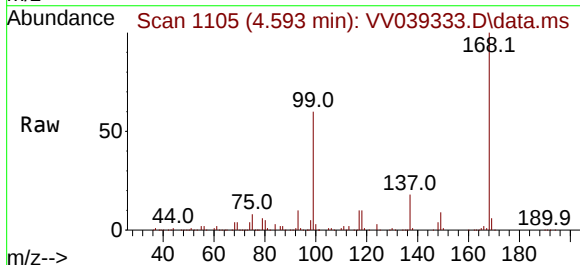
RT: 4.593 min Scan# 1105

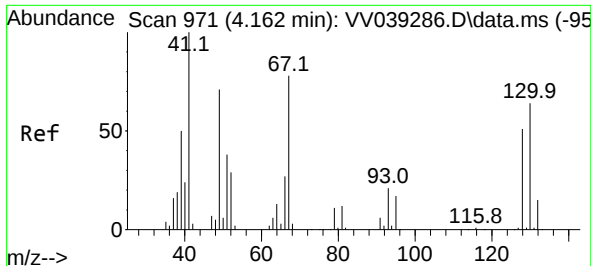
Delta R.T. -0.141 min

Lab File: VV039333.D

Acq: 05 Nov 2025 13:54

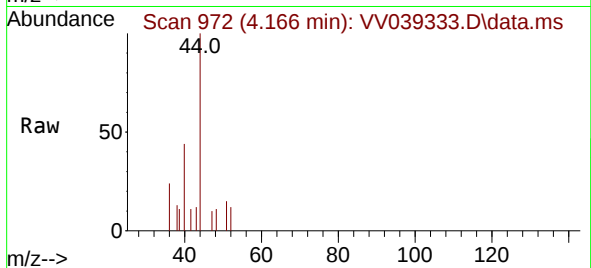
Tgt Ion:	117	Resp:	98261
Ion Ratio	Lower	Upper	
117	100		
119	5.9	75.9	113.9#
121	0.5	24.6	37.0#



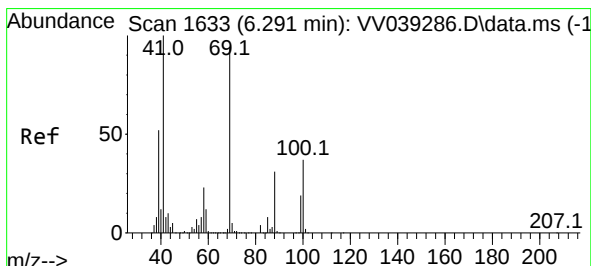
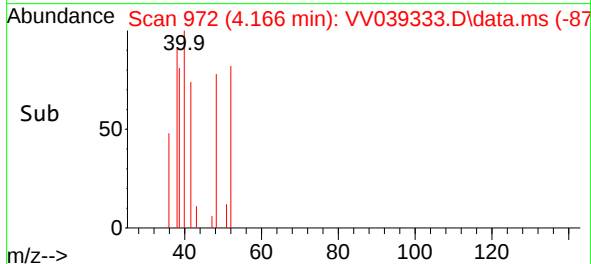
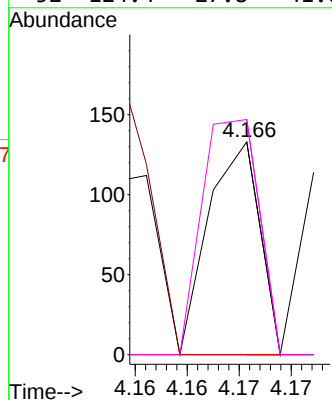


#41
Methacrylonitrile
Concen: 1.696 ug/l
RT: 4.166 min Scan# 91
Delta R.T. 0.003 min
Lab File: VV039333.D
Acq: 05 Nov 2025 13:54

Instrument :
MSVOA_V
ClientSampleId :

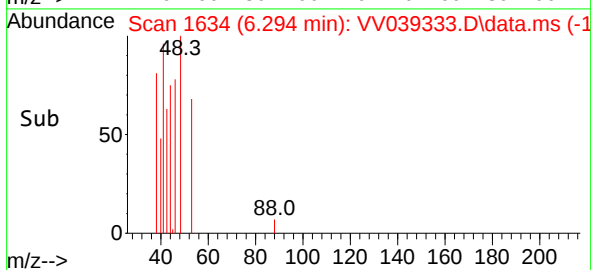
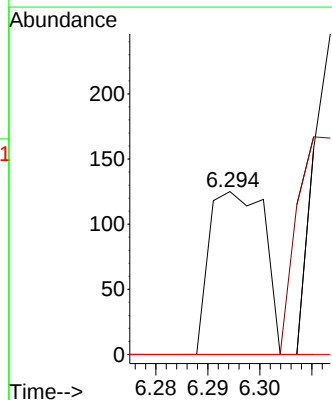
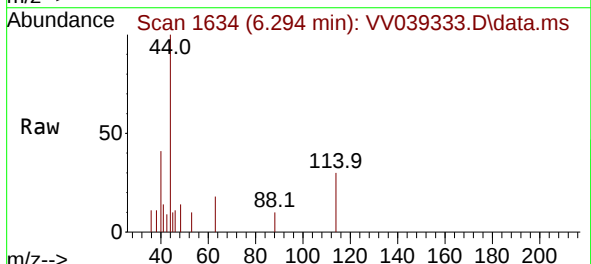


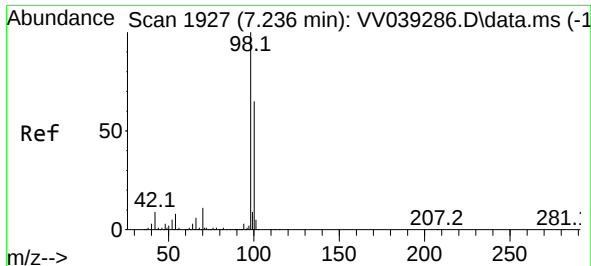
Tgt Ion:	41	Resp:	45
Ion	Ratio	Lower	Upper
41	100		
39	0.0	40.9	61.3#
67	0.0	73.1	109.7#
52	124.4	27.8	41.6#



#49
1,4-Dioxane
Concen: 0.451 ug/l
RT: 6.294 min Scan# 1634
Delta R.T. 0.003 min
Lab File: VV039333.D
Acq: 05 Nov 2025 13:54

Tgt Ion:	88	Resp:	92
Ion	Ratio	Lower	Upper
88	100		
43	0.0	24.1	36.1#
58	0.0	57.6	86.4#

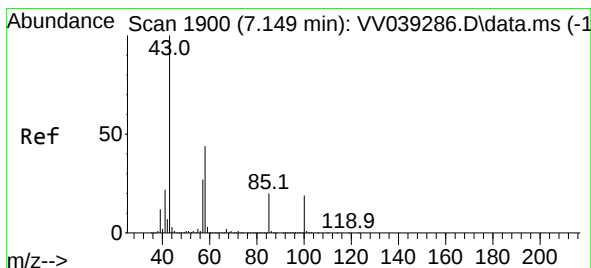
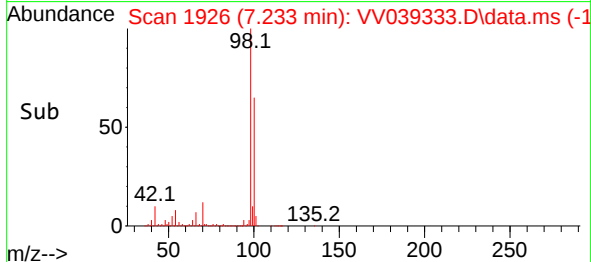
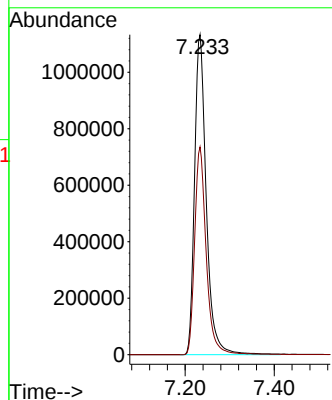
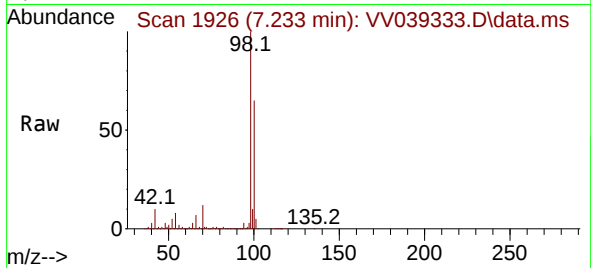




#50
Toluene-d8
Concen: 44.466 ug/l
RT: 7.233 min Scan# 1926
Delta R.T. -0.003 min
Lab File: VV039333.D
Acq: 05 Nov 2025 13:54

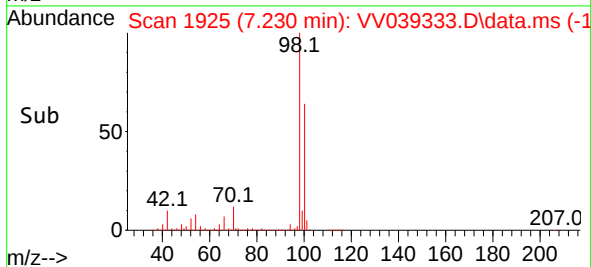
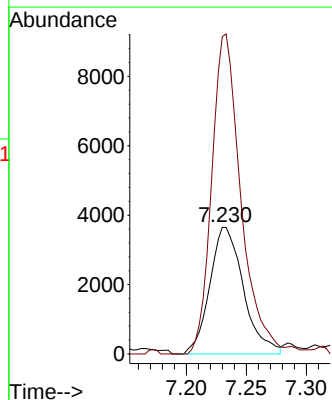
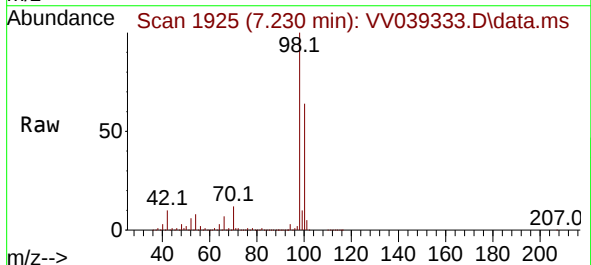
Instrument :
MSVOA_V
ClientSampleId :

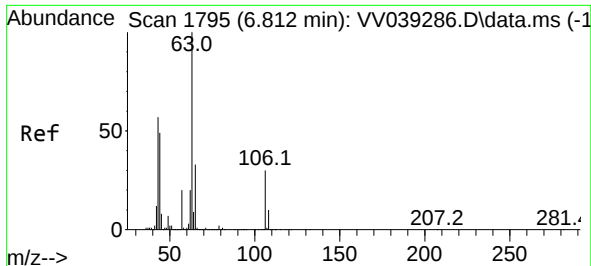
Tgt Ion: 98 Resp: 2079730
Ion Ratio Lower Upper
98 100
100 64.2 52.8 79.2



#51
4-Methyl-2-Pentanone
Concen: 0.389 ug/l
RT: 7.230 min Scan# 1925
Delta R.T. 0.081 min
Lab File: VV039333.D
Acq: 05 Nov 2025 13:54

Tgt Ion: 43 Resp: 7135
Ion Ratio Lower Upper
43 100
58 217.8 34.2 51.4#

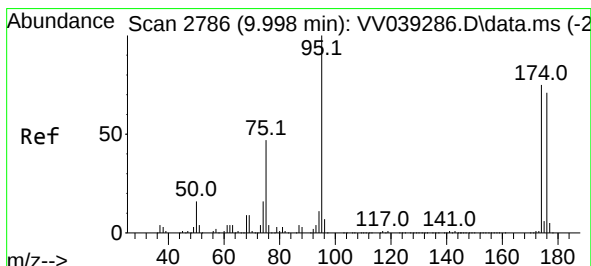
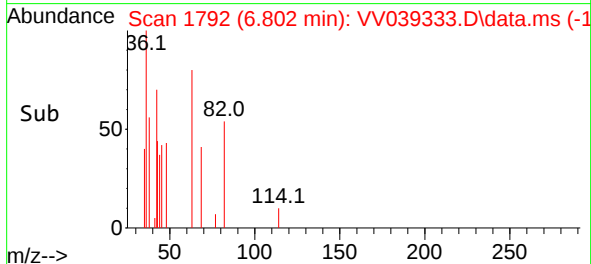
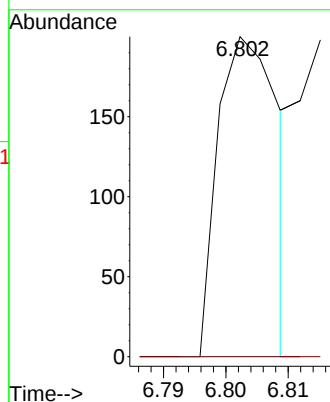
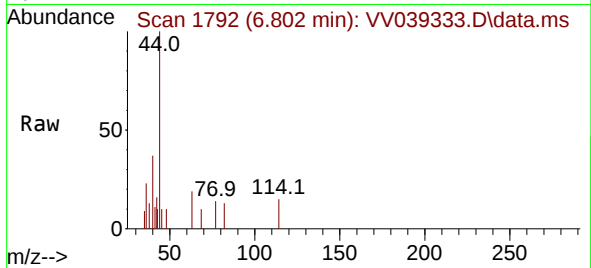




#58
2-Chloroethyl Vinyl ether
Concen: 8.480 ug/l
RT: 6.802 min Scan# 11
Delta R.T. -0.010 min
Lab File: VV039333.D
Acq: 05 Nov 2025 13:54

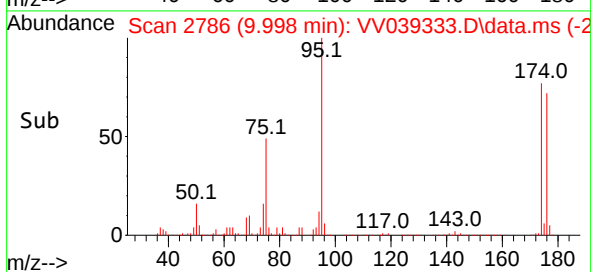
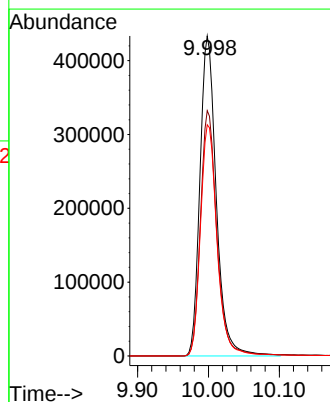
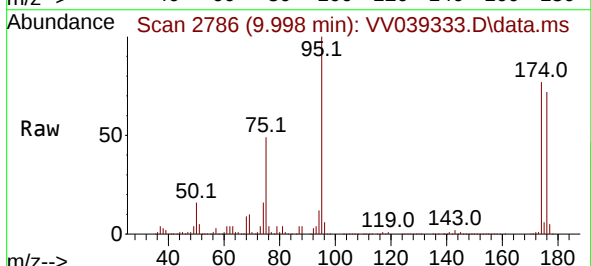
Instrument :
MSVOA_V
ClientSampleId :

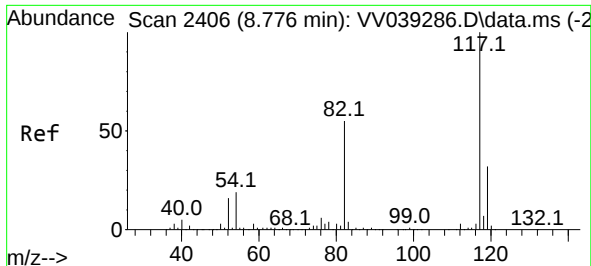
Tgt Ion: 63 Resp: 135
Ion Ratio Lower Upper
63 100
106 0.0 23.5 35.3#



#62
4-Bromofluorobenzene
Concen: 41.691 ug/l
RT: 9.998 min Scan# 2786
Delta R.T. 0.000 min
Lab File: VV039333.D
Acq: 05 Nov 2025 13:54

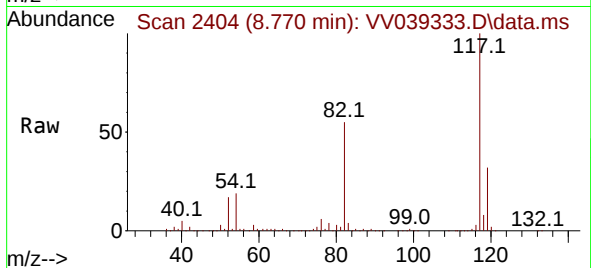
Tgt Ion: 95 Resp: 694449
Ion Ratio Lower Upper
95 100
174 77.1 0.0 153.6
176 73.6 0.0 146.0



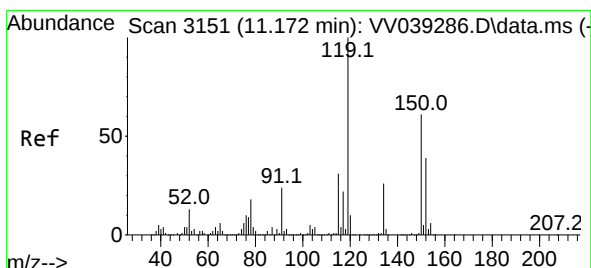
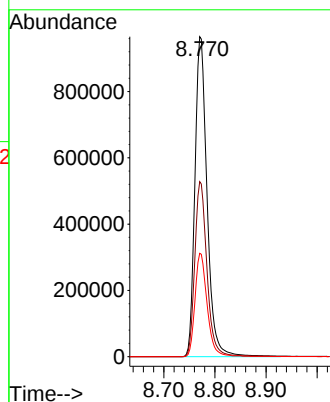
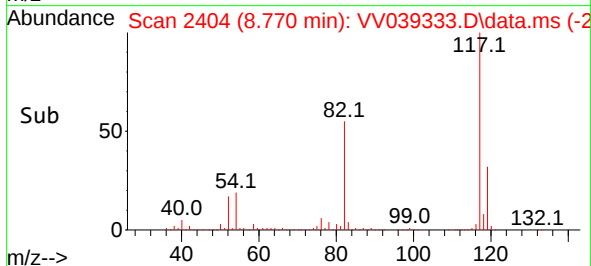


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.770 min Scan# 2406
Delta R.T. -0.006 min
Lab File: VV039333.D
Acq: 05 Nov 2025 13:54

Instrument :
MSVOA_V
ClientSampleId :

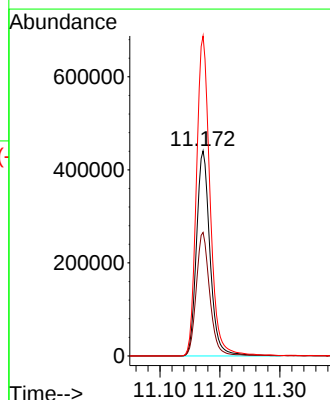
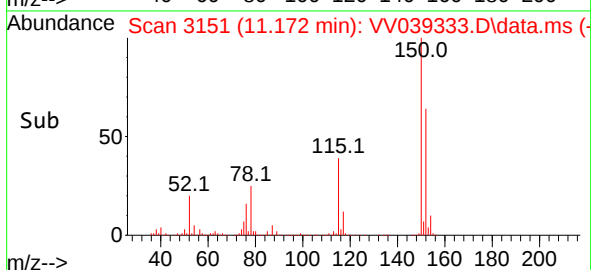
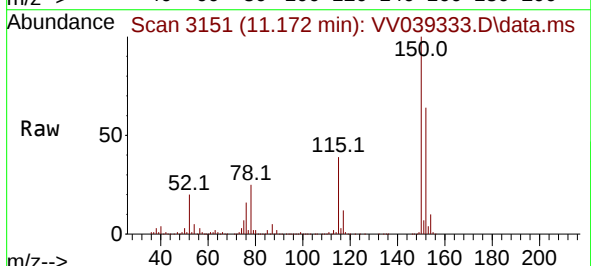


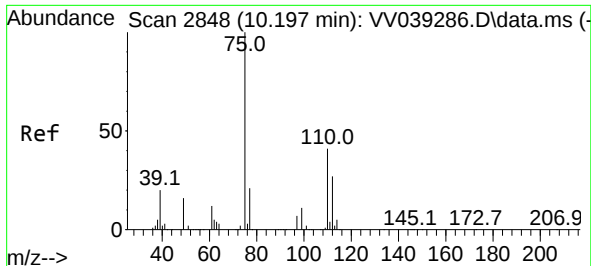
Tgt Ion:117 Resp: 1594094
Ion Ratio Lower Upper
117 100
82 54.7 43.8 65.8
119 32.3 25.8 38.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3151
Delta R.T. 0.000 min
Lab File: VV039333.D
Acq: 05 Nov 2025 13:54

Tgt Ion:152 Resp: 693574
Ion Ratio Lower Upper
152 100
115 60.3 42.3 126.8
150 156.5 0.0 348.0

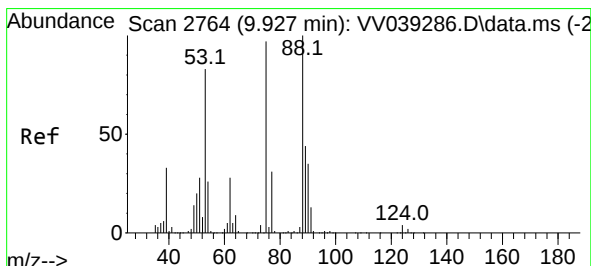
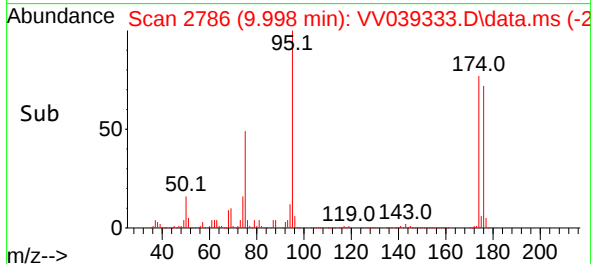
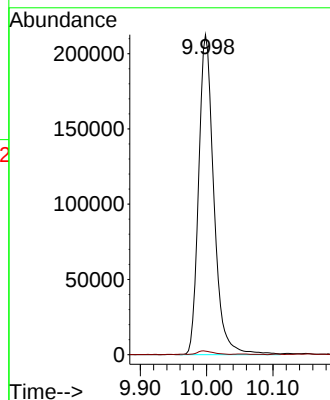
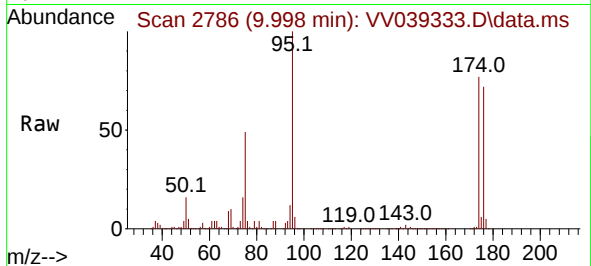




#76
1,2,3-Trichloropropane
Concen: 24.474 ug/l
RT: 9.998 min Scan# 2786
Delta R.T. -0.199 min
Lab File: VV039333.D
Acq: 05 Nov 2025 13:54

Instrument :
MSVOA_V
ClientSampleId :

Tgt Ion: 75 Resp: 338787
Ion Ratio Lower Upper
75 100
77 1.2 12.2 36.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 61.808 ug/l
RT: 9.998 min Scan# 2786
Delta R.T. 0.071 min
Lab File: VV039333.D
Acq: 05 Nov 2025 13:54

Tgt Ion: 75 Resp: 338787
Ion Ratio Lower Upper
75 100
53 0.3 69.9 104.9#
89 0.0 37.4 56.0#

