

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV100325\
 Data File : VV039262.D
 Acq On : 03 Oct 2025 19:56
 Operator : SY/MD
 Sample : VIBLK
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VIBLK

Quant Time: Oct 04 01:17:51 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 24 08:08:08 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	4.603	168	235531	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	436761	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	463898	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.175	152	212882	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.944	65	301943	88.577	ug/l	0.00
Spiked Amount	50.000	Range	81 - 118	Recovery	=	177.160%#
35) Dibromofluoromethane	4.503	113	258461	73.610	ug/l	0.00
Spiked Amount	50.000	Range	80 - 119	Recovery	=	147.220%#
50) Toluene-d8	7.239	98	462790	44.877	ug/l	0.00
Spiked Amount	50.000	Range	89 - 112	Recovery	=	89.760%
62) 4-Bromofluorobenzene	10.001	95	196801	46.357	ug/l	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	=	92.720%

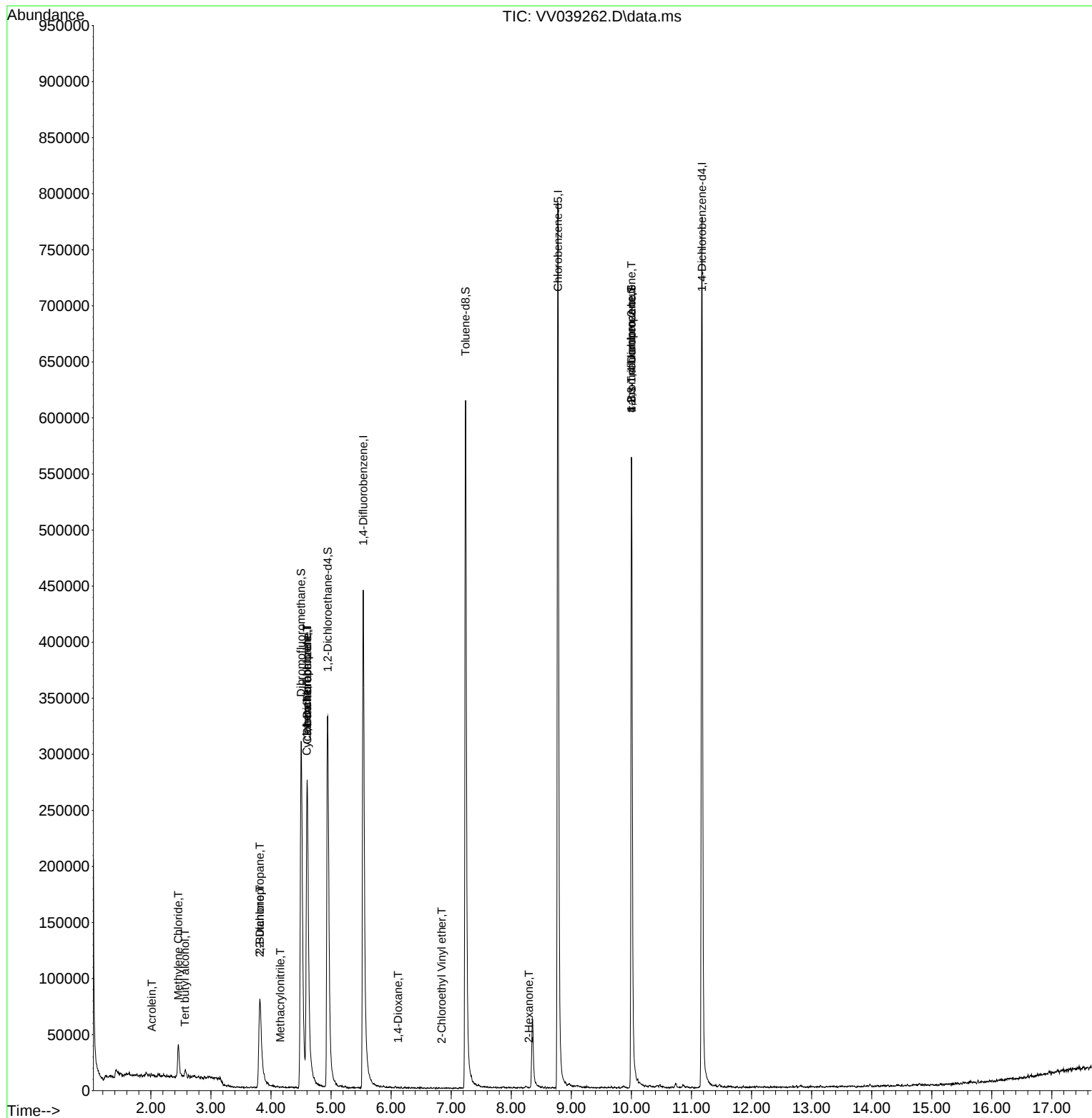
Target Compounds					Qvalue
6) Chloroethane	1.532	64	645	Below Cal	# 69
11) Tert butyl alcohol	2.568	59	1462	2.029	ug/l # 91
13) Acrolein	2.015	56	386	3.088	ug/l # 15
16) Acetone	2.127	43	3263	Below Cal	# 93
20) Methylene Chloride	2.458	84	14456	2.026	ug/l # 92
25) 2-Butanone	3.815	43	3745	1.372	ug/l # 92
26) 2,2-Dichloropropane	3.812	77	5660	0.860	ug/l # 52
31) Cyclohexane	4.596	56	5372	0.884	ug/l # 1
36) 1,1-Dichloropropene	4.600	75	21783	4.103	ug/l # 44
38) Carbon Tetrachloride	4.606	117	24677	3.804	ug/l # 18
41) Methacrylonitrile	4.156	41	71	1.934	ug/l # 54
49) 1,4-Dioxane	6.114	88	68	1.058	ug/l # 1
58) 2-Chloroethyl Vinyl ether	6.841	63	24	9.630	ug/l # 47
59) 2-Hexanone	8.294	43	109	2.349	ug/l # 78
76) 1,2,3-Trichloropropane	10.001	75	98645	20.352	ug/l # 57
81) trans-1,4-Dichloro-2-b...	10.001	75	98645	48.858	ug/l # 13
92) 1,2-Dibromo-3-Chloropr...	12.345	75	72	Below Cal	# 5

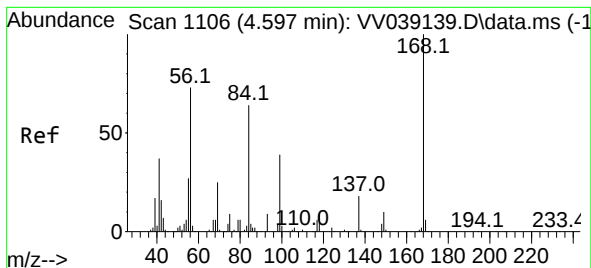
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.603 min Scan# 1108

Delta R.T. 0.006 min

Lab File: VV039262.D

Acq: 03 Oct 2025 19:56

Instrument :

MSVOA_V

ClientSampleId :

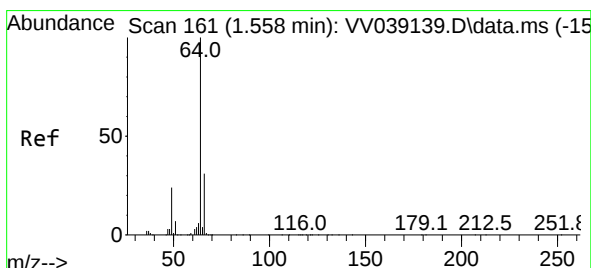
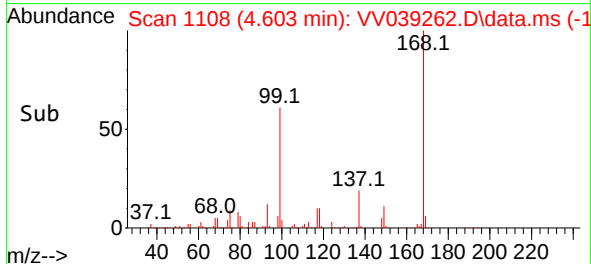
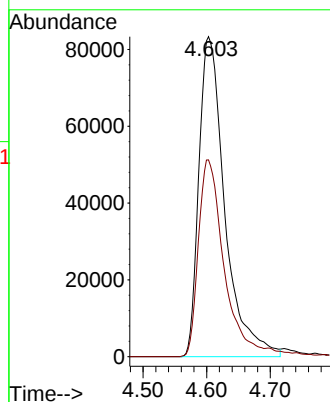
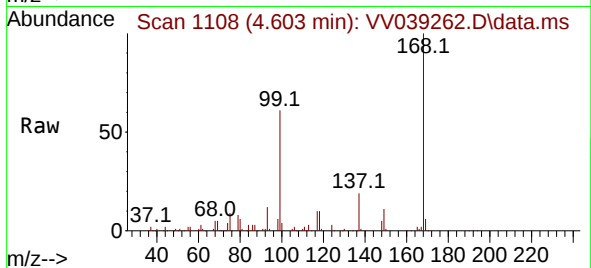
VIBLK

Tgt Ion:168 Resp: 235531

Ion Ratio Lower Upper

168 100

99 61.5 49.6 74.4



#6

Chloroethane

Concen: Below Cal

RT: 1.532 min Scan# 153

Delta R.T. -0.026 min

Lab File: VV039262.D

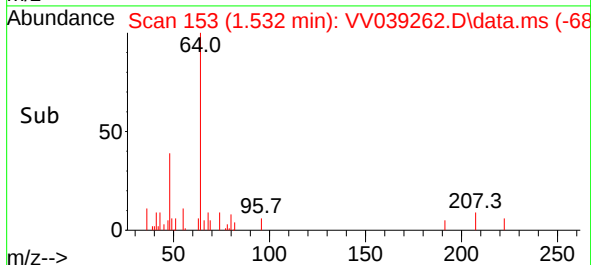
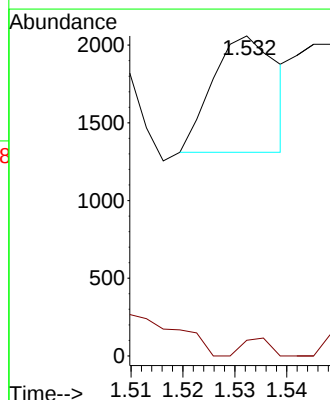
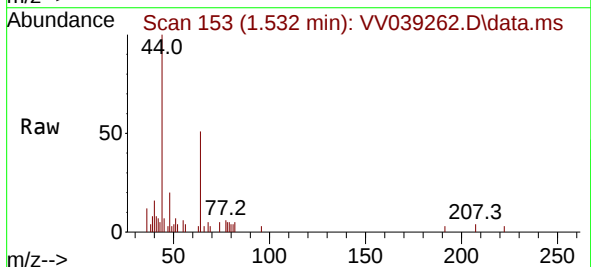
Acq: 03 Oct 2025 19:56

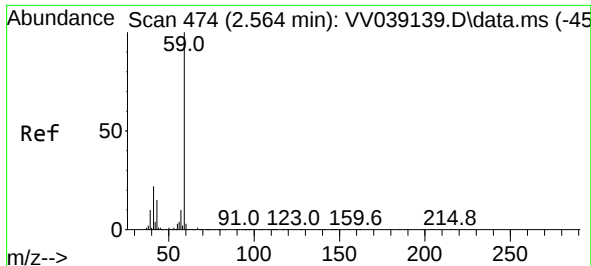
Tgt Ion: 64 Resp: 645

Ion Ratio Lower Upper

64 100

66 13.5 24.6 36.8#

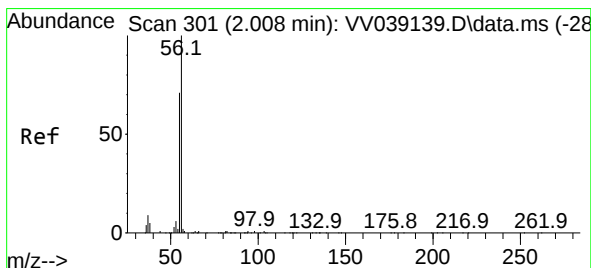
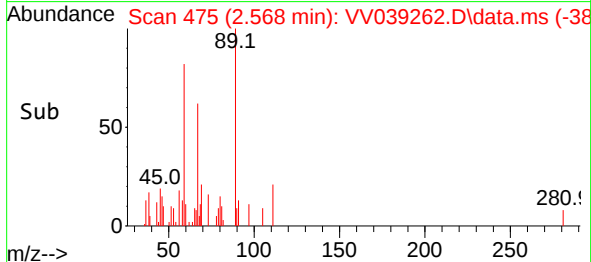
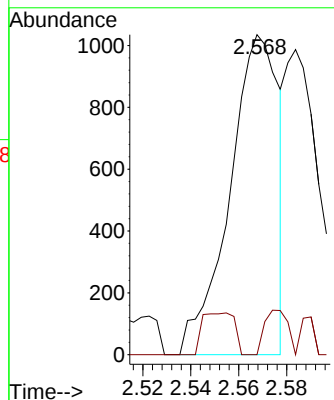
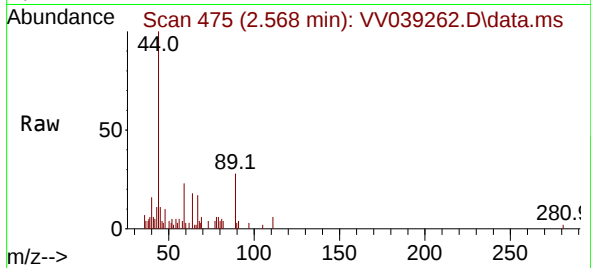




#11
Tert butyl alcohol
Concen: 2.029 ug/l
RT: 2.568 min Scan# 41
Delta R.T. 0.003 min
Lab File: VV039262.D
Acq: 03 Oct 2025 19:56

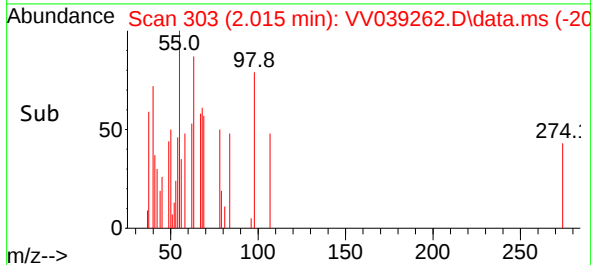
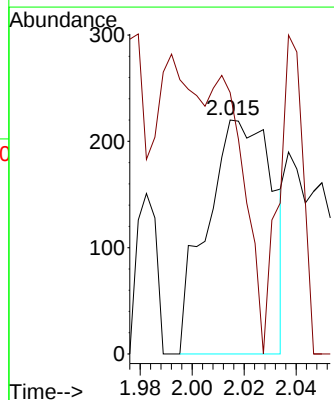
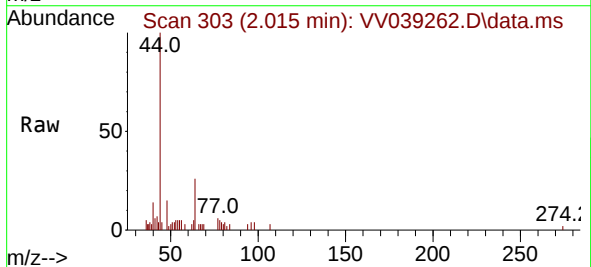
Instrument :
MSVOA_V
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VIBLK

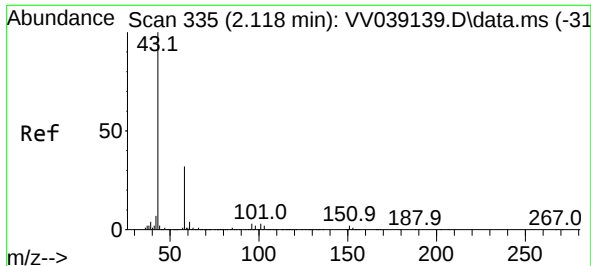
Tgt Ion: 59 Resp: 1462
Ion Ratio Lower Upper
59 100
57 6.6 7.8 11.8#



#13
Acrolein
Concen: 3.088 ug/l
RT: 2.015 min Scan# 303
Delta R.T. 0.006 min
Lab File: VV039262.D
Acq: 03 Oct 2025 19:56

Tgt Ion: 56 Resp: 386
Ion Ratio Lower Upper
56 100
55 0.0 56.2 84.4#

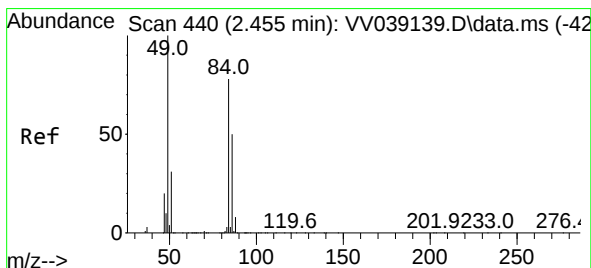
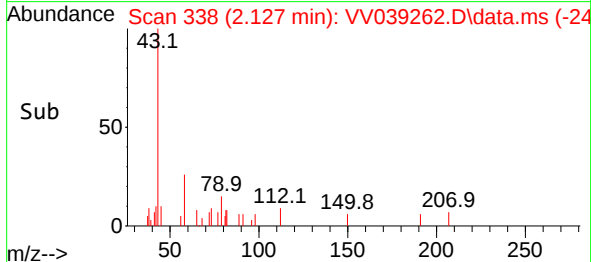
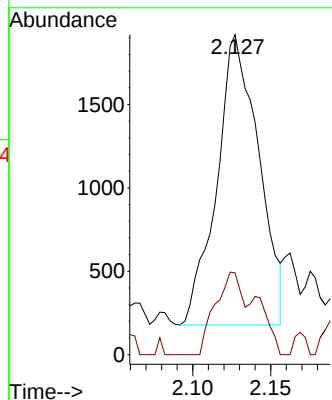
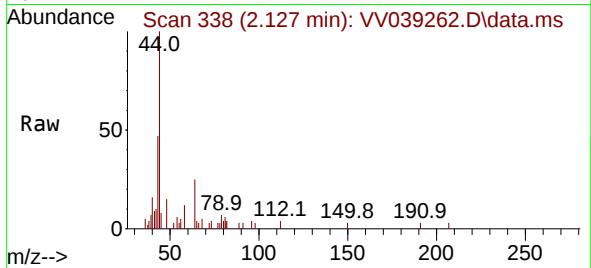




#16
Acetone
Concen: Below Cal
RT: 2.127 min Scan# 31
Delta R.T. 0.009 min
Lab File: VV039262.D
Acq: 03 Oct 2025 19:56

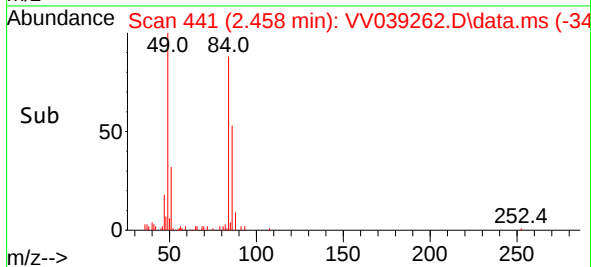
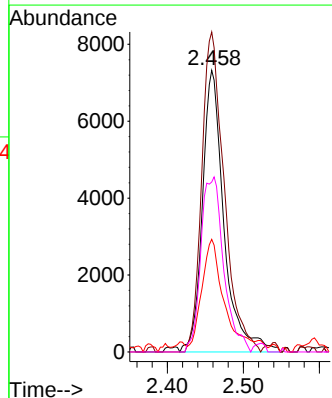
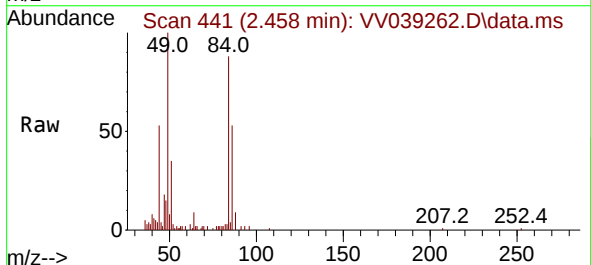
Instrument :
MSVOA_V
ClientSampleId :
VIBLK

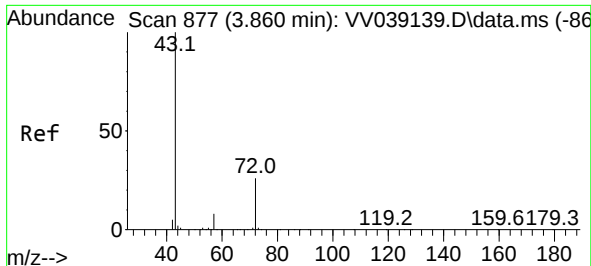
Tgt Ion: 43 Resp: 3263
Ion Ratio Lower Upper
43 100
58 28.1 25.8 38.6



#20
Methylene Chloride
Concen: 2.026 ug/l
RT: 2.458 min Scan# 441
Delta R.T. 0.003 min
Lab File: VV039262.D
Acq: 03 Oct 2025 19:56

Tgt Ion: 84 Resp: 14456
Ion Ratio Lower Upper
84 100
49 113.6 102.8 154.2
51 40.0 31.9 47.9
86 60.3 51.2 76.8

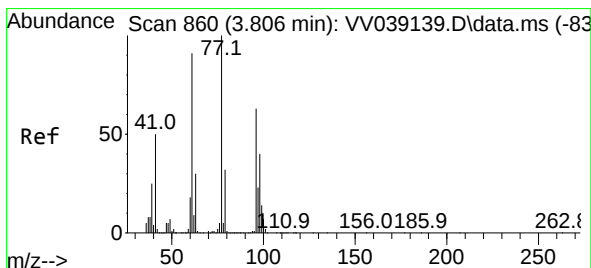
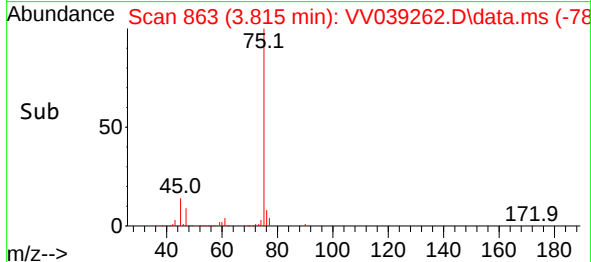
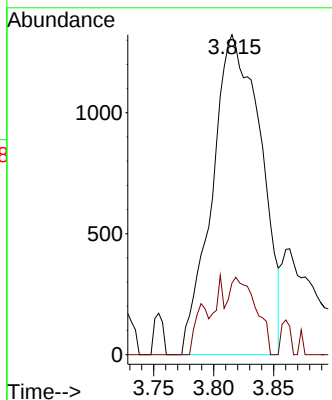
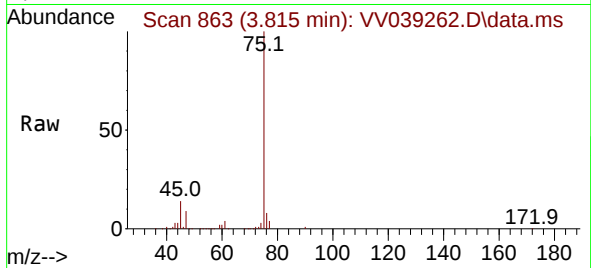




#25
2-Butanone
Concen: 1.372 ug/l
RT: 3.815 min Scan# 80
Delta R.T. -0.045 min
Lab File: VV039262.D
Acq: 03 Oct 2025 19:56

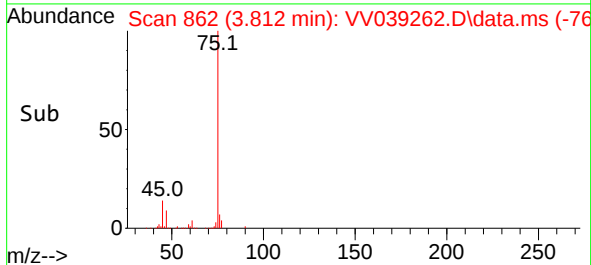
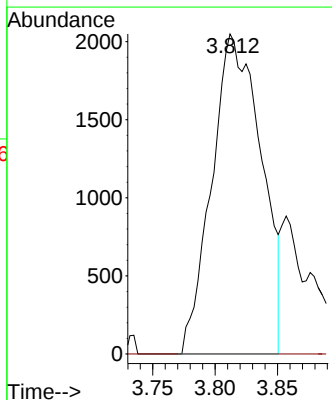
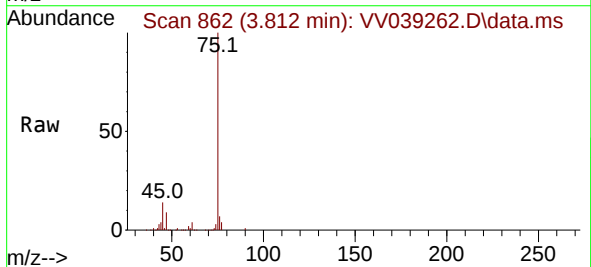
Instrument :
MSVOA_V
ClientSampleId :
VIBLK

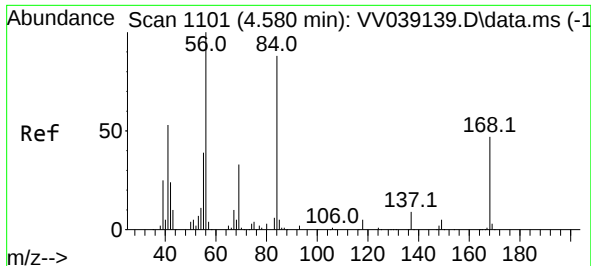
Tgt Ion: 43 Resp: 3745
Ion Ratio Lower Upper
43 100
72 22.4 21.0 31.6



#26
2,2-Dichloropropane
Concen: 0.860 ug/l
RT: 3.812 min Scan# 862
Delta R.T. 0.006 min
Lab File: VV039262.D
Acq: 03 Oct 2025 19:56

Tgt Ion: 77 Resp: 5660
Ion Ratio Lower Upper
77 100
97 0.0 11.6 34.7#

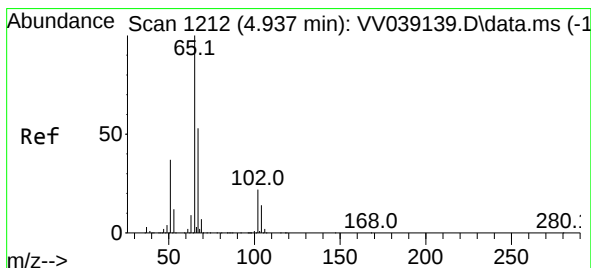
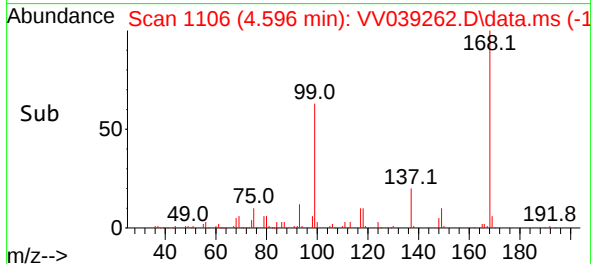
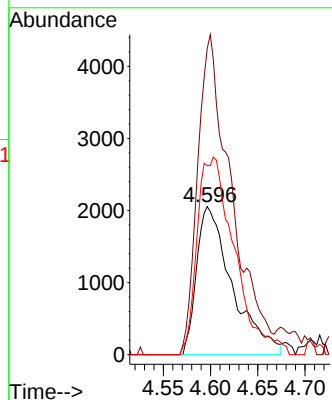
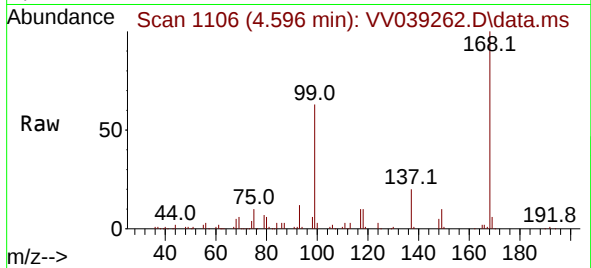




#31
Cyclohexane
Concen: 0.884 ug/l
RT: 4.596 min Scan# 1106
Delta R.T. 0.016 min
Lab File: VV039262.D
Acq: 03 Oct 2025 19:56

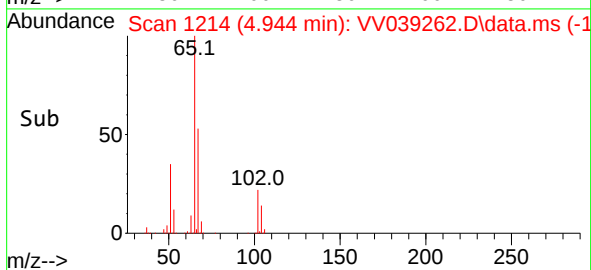
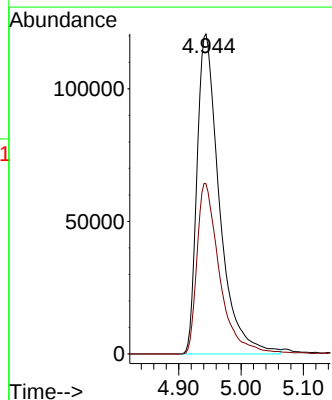
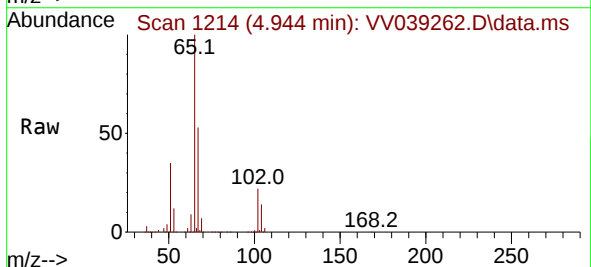
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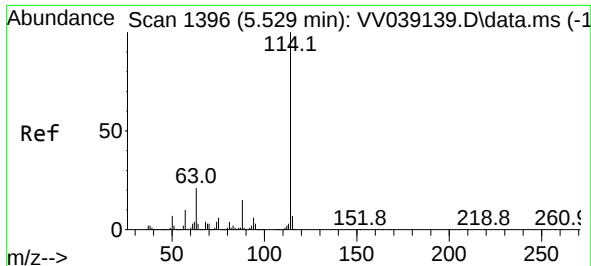
Tgt Ion: 56 Resp: 5372
Ion Ratio Lower Upper
56 100
69 206.8 26.2 39.2#
84 127.5 70.3 105.5#



#33
1,2-Dichloroethane-d4
Concen: 88.577 ug/l
RT: 4.944 min Scan# 1214
Delta R.T. 0.006 min
Lab File: VV039262.D
Acq: 03 Oct 2025 19:56

Tgt Ion: 65 Resp: 301943
Ion Ratio Lower Upper
65 100
67 53.8 0.0 107.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.535 min Scan# 1

Delta R.T. 0.006 min

Lab File: VV039262.D

Acq: 03 Oct 2025 19:56

Instrument :

MSVOA_V

ClientSampleId :

VIBLK

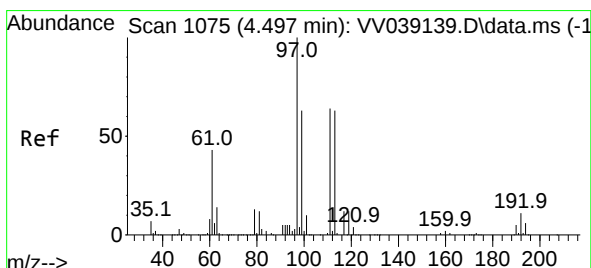
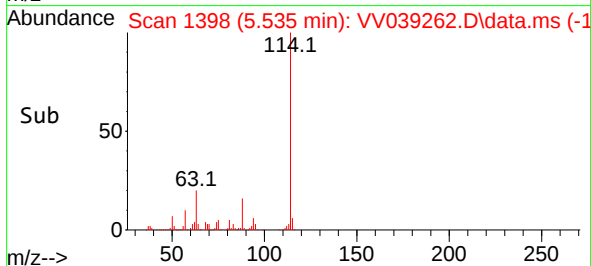
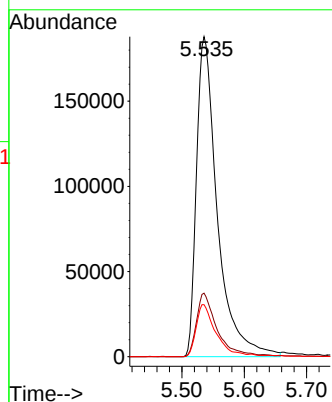
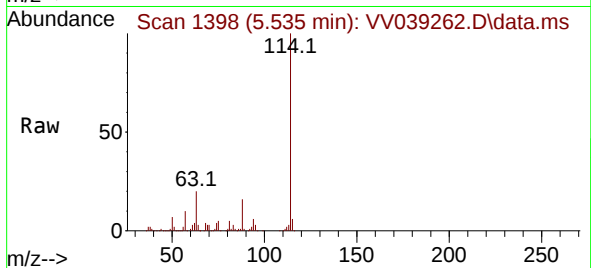
Tgt Ion:114 Resp: 436761

Ion Ratio Lower Upper

114 100

63 19.9 0.0 42.6

88 16.2 0.0 30.8



#35

Dibromofluoromethane

Concen: 73.610 ug/l

RT: 4.503 min Scan# 1077

Delta R.T. 0.006 min

Lab File: VV039262.D

Acq: 03 Oct 2025 19:56

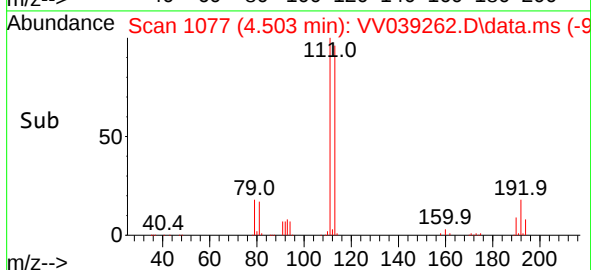
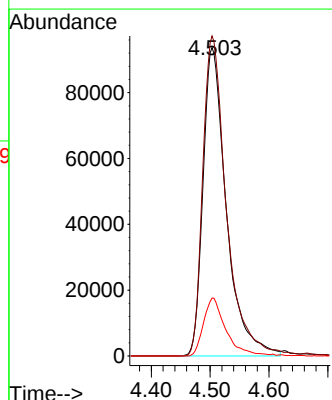
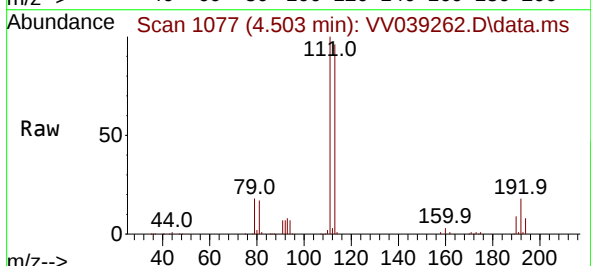
Tgt Ion:113 Resp: 258461

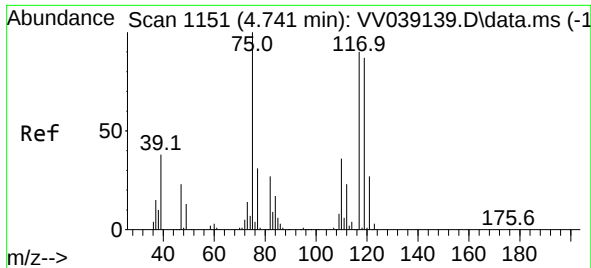
Ion Ratio Lower Upper

113 100

111 104.7 82.4 123.6

192 17.9 13.8 20.8

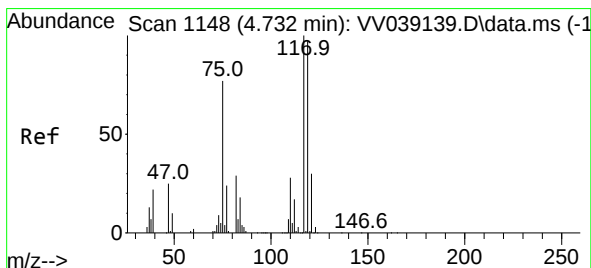
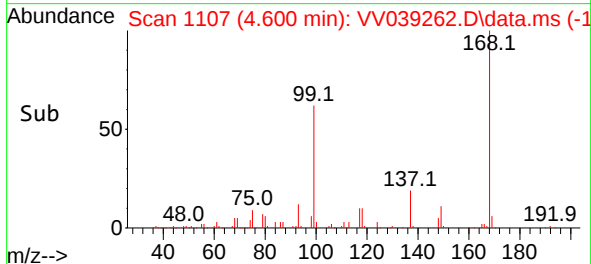
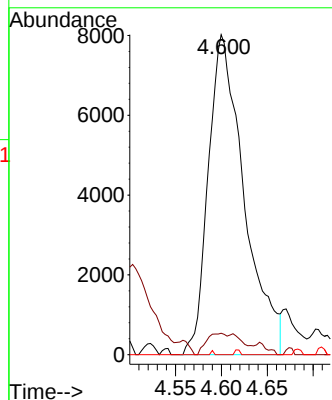
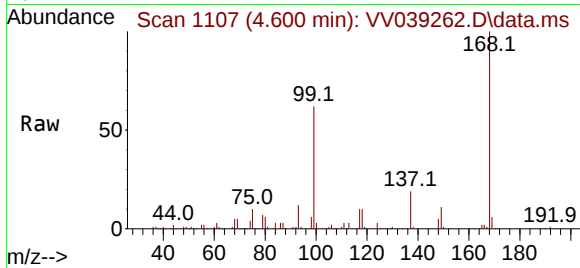




#36
 1,1-Dichloropropene
 Concen: 4.103 ug/l
 RT: 4.600 min Scan# 1107
 Delta R.T. -0.141 min
 Lab File: VV039262.D
 Acq: 03 Oct 2025 19:56

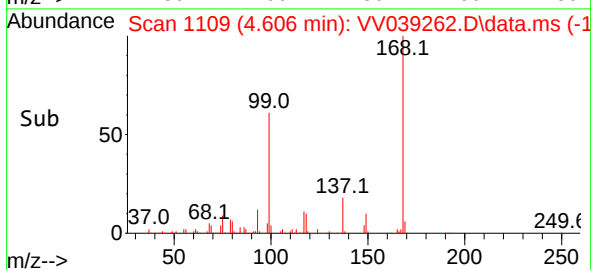
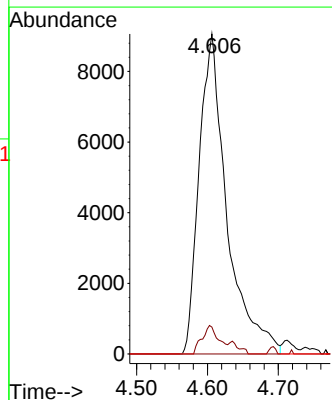
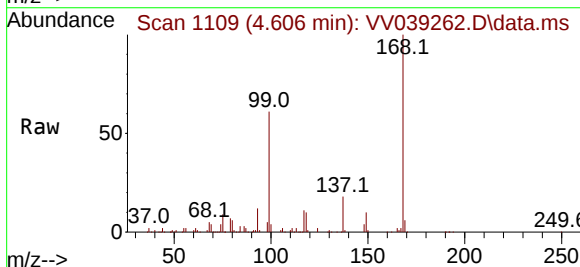
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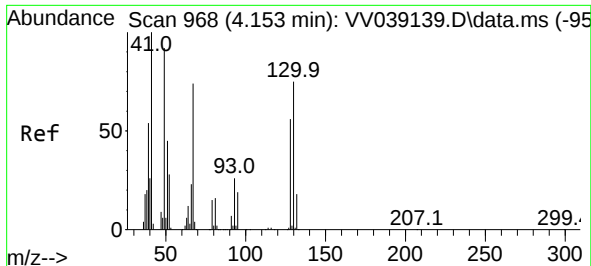
Tgt Ion: 75 Resp: 21783
 Ion Ratio Lower Upper
 75 100
 110 3.8 18.1 54.1#
 77 0.1 24.8 37.2#



#38
 Carbon Tetrachloride
 Concen: 3.804 ug/l
 RT: 4.606 min Scan# 1109
 Delta R.T. -0.126 min
 Lab File: VV039262.D
 Acq: 03 Oct 2025 19:56

Tgt Ion: 117 Resp: 24677
 Ion Ratio Lower Upper
 117 100
 119 8.4 77.2 115.8#
 121 0.0 24.2 36.2#

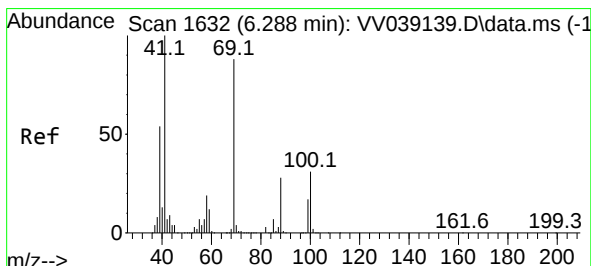
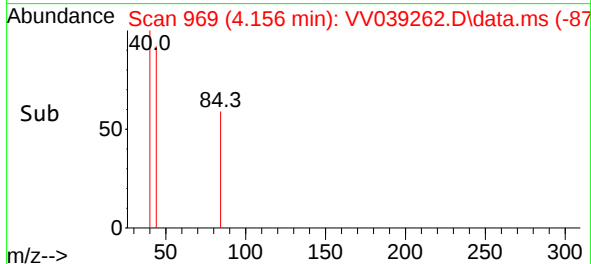
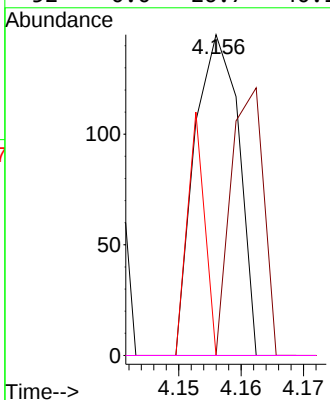
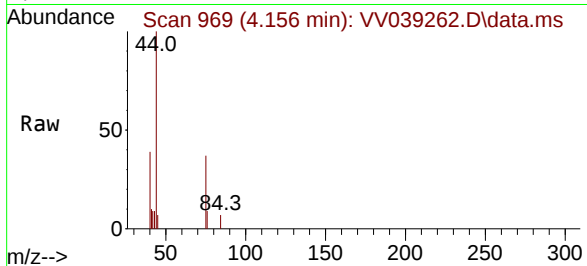




#41
Methacrylonitrile
Concen: 1.934 ug/l
RT: 4.156 min Scan# 90
Delta R.T. 0.003 min
Lab File: VV039262.D
Acq: 03 Oct 2025 19:56

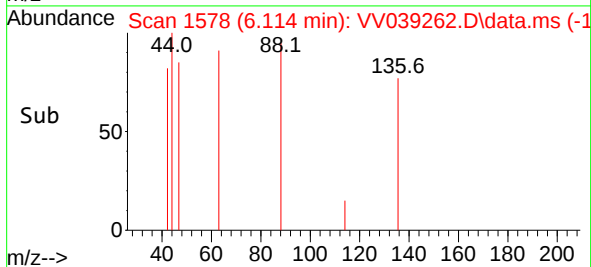
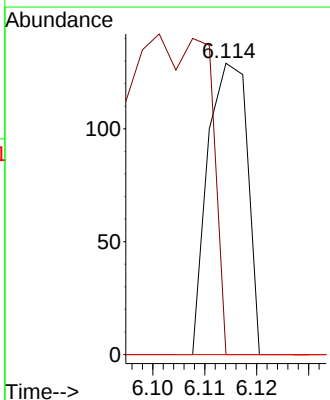
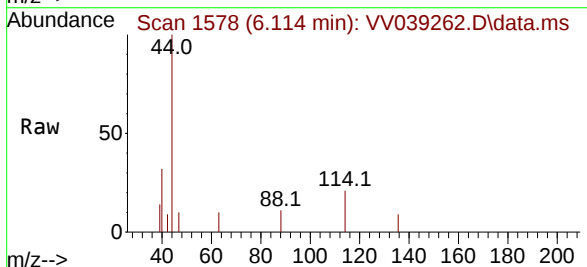
Instrument :
MSVOA_V
ClientSampleId :
VIBLK

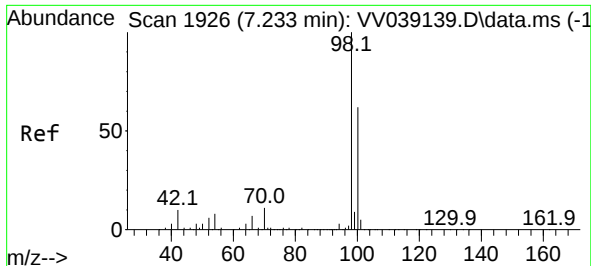
Tgt Ion:	41	Resp:	71
Ion	Ratio	Lower	Upper
41	100		
39	62.0	42.2	63.2
67	29.6	67.9	101.9#
52	0.0	26.7	40.1#



#49
1,4-Dioxane
Concen: 1.058 ug/l
RT: 6.114 min Scan# 1578
Delta R.T. -0.174 min
Lab File: VV039262.D
Acq: 03 Oct 2025 19:56

Tgt Ion:	88	Resp:	68
Ion	Ratio	Lower	Upper
88	100		
43	192.6	25.1	37.7#
58	0.0	53.6	80.4#

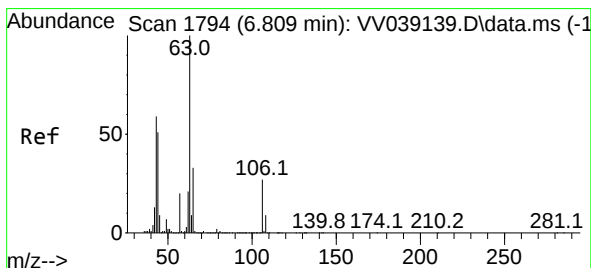
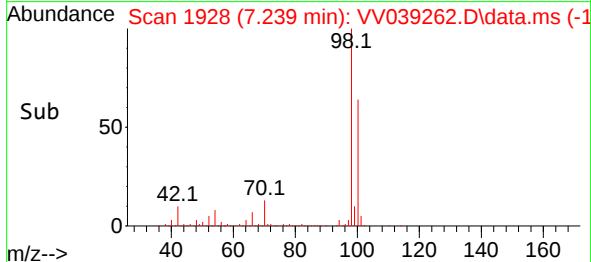
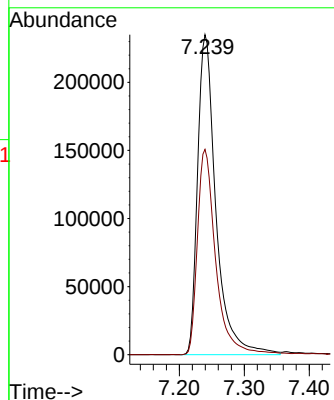
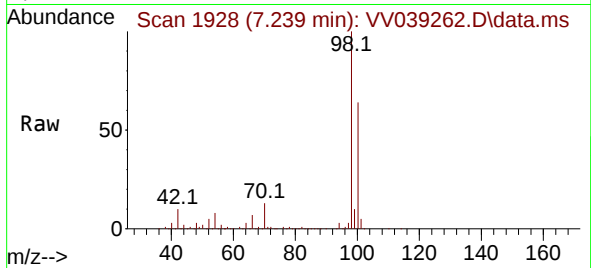




#50
Toluene-d8
Concen: 44.877 ug/l
RT: 7.239 min Scan# 1926
Delta R.T. 0.006 min
Lab File: VV039262.D
Acq: 03 Oct 2025 19:56

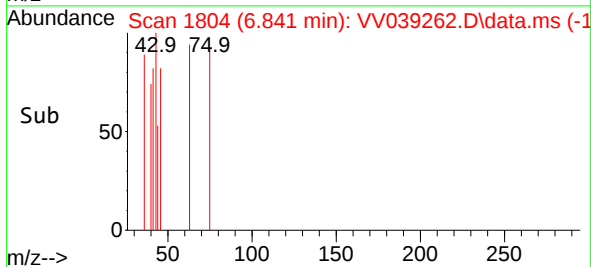
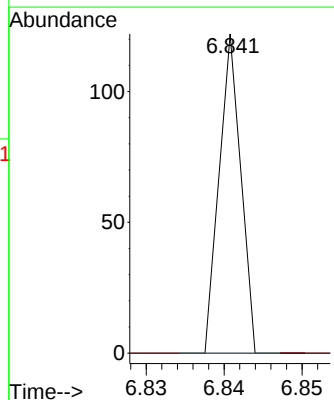
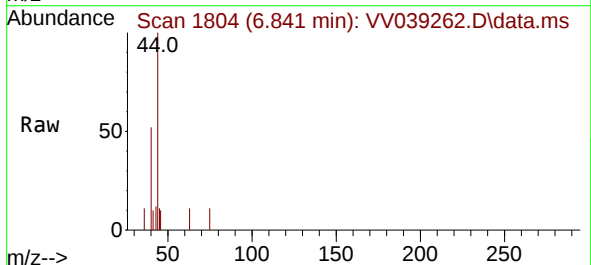
Instrument :
MSVOA_V
ClientSampleId :
VIBLK

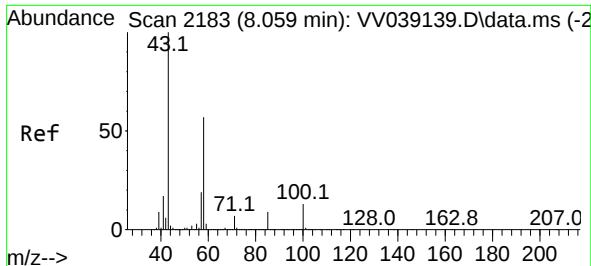
Tgt Ion: 98 Resp: 462790
Ion Ratio Lower Upper
98 100
100 64.2 52.2 78.2



#58
2-Chloroethyl Vinyl ether
Concen: 9.630 ug/l
RT: 6.841 min Scan# 1804
Delta R.T. 0.032 min
Lab File: VV039262.D
Acq: 03 Oct 2025 19:56

Tgt Ion: 63 Resp: 24
Ion Ratio Lower Upper
63 100
106 0.0 22.1 33.1#

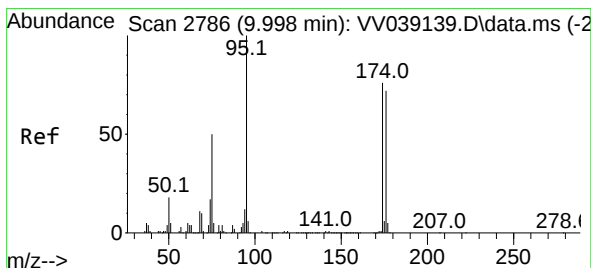
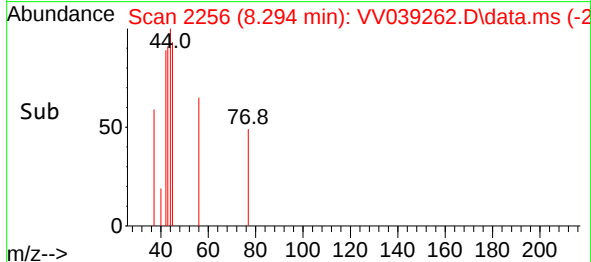
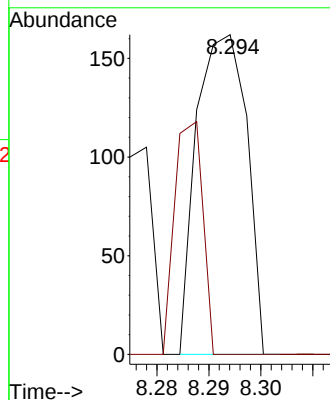
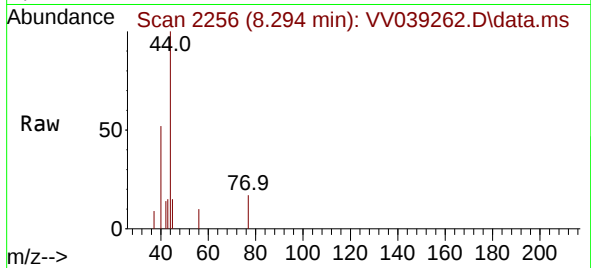




#59
2-Hexanone
Concen: 2.349 ug/l
RT: 8.294 min Scan# 2183
Delta R.T. 0.235 min
Lab File: VV039262.D
Acq: 03 Oct 2025 19:56

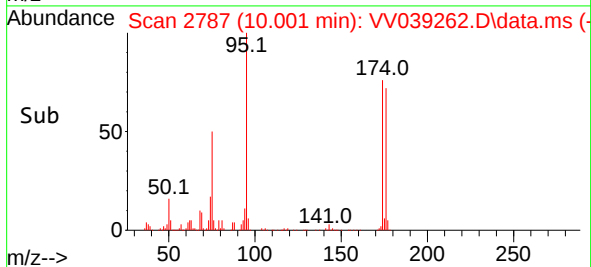
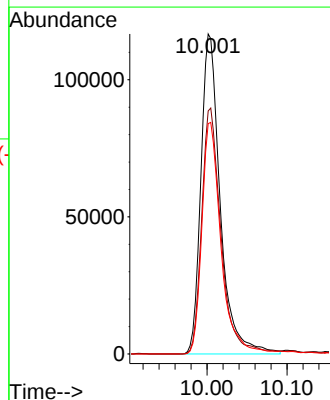
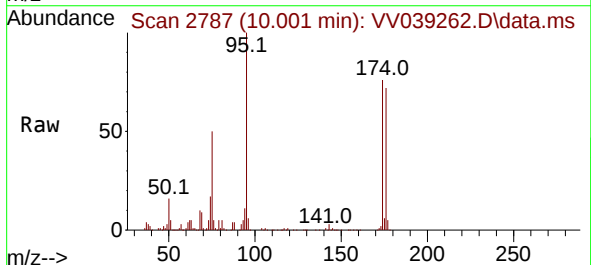
Instrument :
MSVOA_V
ClientSampleId :
VIBLK

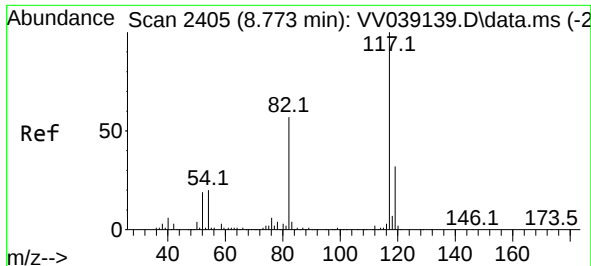
Tgt Ion: 43 Resp: 109
Ion Ratio Lower Upper
43 100
58 40.4 28.3 85.0



#62
4-Bromofluorobenzene
Concen: 46.357 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039262.D
Acq: 03 Oct 2025 19:56

Tgt Ion: 95 Resp: 196801
Ion Ratio Lower Upper
95 100
174 77.1 0.0 150.4
176 72.0 0.0 144.2

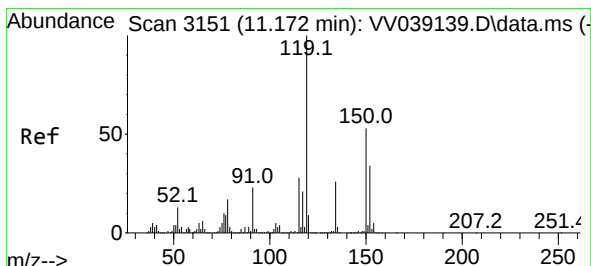
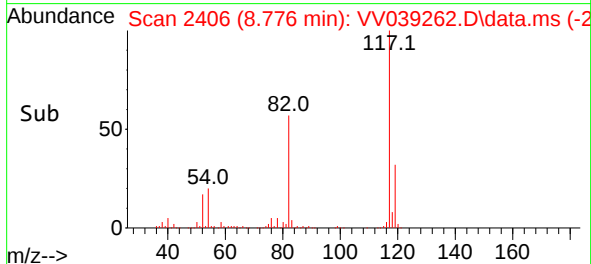
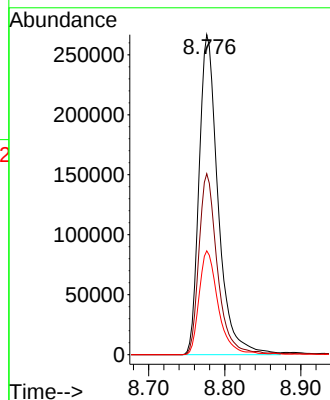
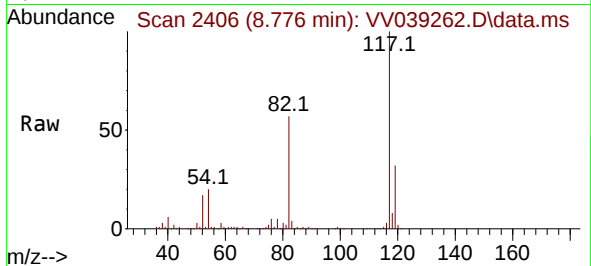




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 2405
Delta R.T. 0.003 min
Lab File: VV039262.D
Acq: 03 Oct 2025 19:56

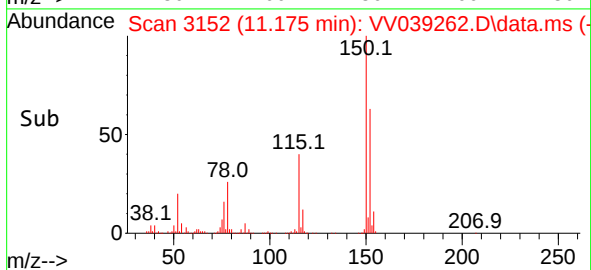
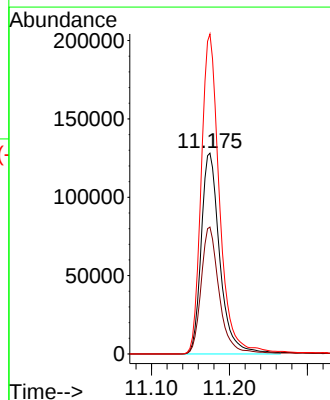
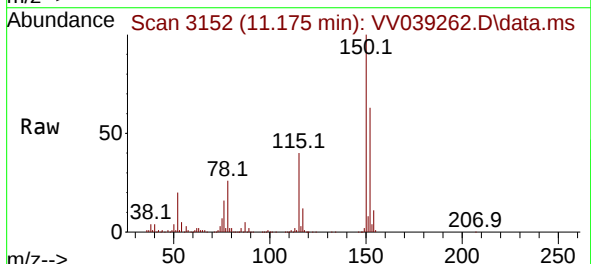
Instrument :
MSVOA_V
ClientSampleId :
VIBLK

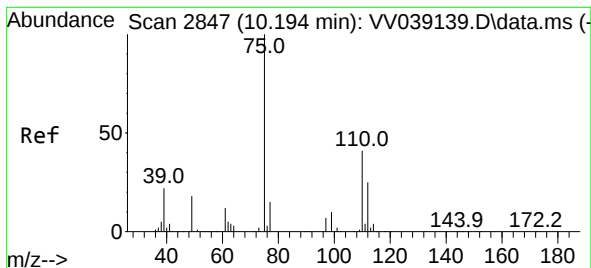
Tgt Ion:117 Resp: 463898
Ion Ratio Lower Upper
117 100
82 56.6 45.4 68.2
119 32.4 25.6 38.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.175 min Scan# 3152
Delta R.T. 0.003 min
Lab File: VV039262.D
Acq: 03 Oct 2025 19:56

Tgt Ion:152 Resp: 212882
Ion Ratio Lower Upper
152 100
115 61.6 44.8 134.4
150 157.9 0.0 353.8





#76

1,2,3-Trichloropropane

Concen: 20.352 ug/l

RT: 10.001 min Scan# 21

Delta R.T. -0.193 min

Lab File: VV039262.D

Acq: 03 Oct 2025 19:56

Instrument :

MSVOA_V

ClientSampleId :

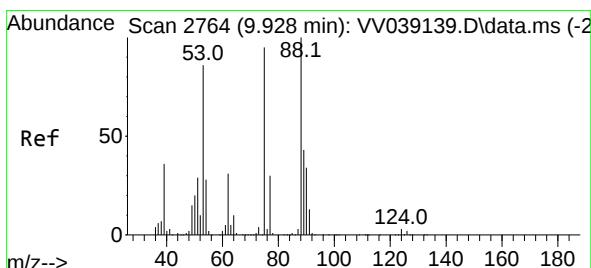
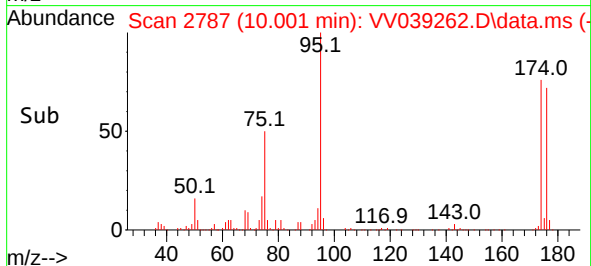
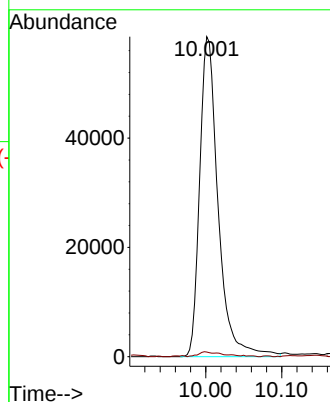
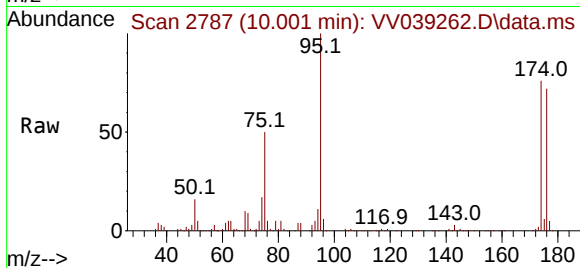
VIBLK

Tgt Ion: 75 Resp: 98645

Ion Ratio Lower Upper

75 100

77 2.0 11.3 33.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 48.858 ug/l

RT: 10.001 min Scan# 2787

Delta R.T. 0.074 min

Lab File: VV039262.D

Acq: 03 Oct 2025 19:56

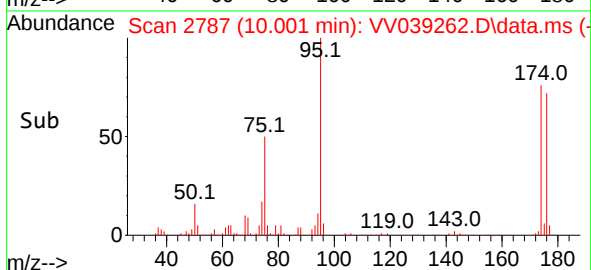
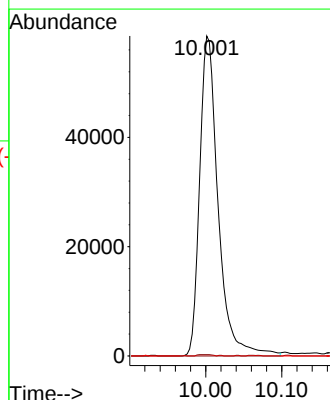
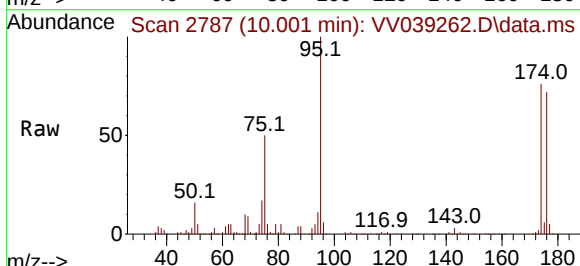
Tgt Ion: 75 Resp: 98645

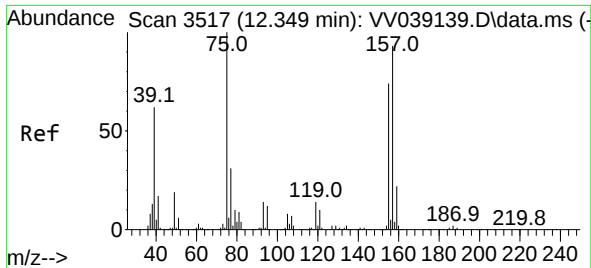
Ion Ratio Lower Upper

75 100

53 0.3 72.5 108.7#

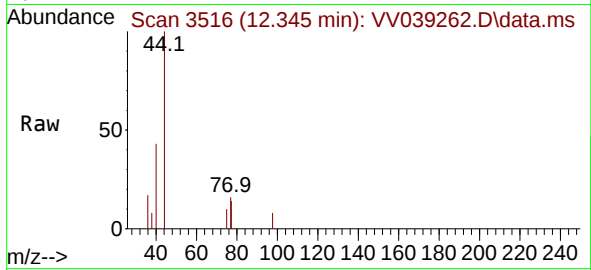
89 0.0 37.2 55.8#





#92
 1,2-Dibromo-3-Chloropropane
 Concen: Below Cal
 RT: 12.345 min Scan# 31
 Delta R.T. -0.004 min
 Lab File: VV039262.D
 Acq: 03 Oct 2025 19:56

Instrument :
 MSVOA_V
 ClientSampleId :
 VIBLK



Tgt Ion: 75 Resp: 72
 Ion Ratio Lower Upper
 75 100
 155 0.0 38.6 115.8#
 157 0.0 49.5 148.3#

