

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
 Data File : VV039194.D
 Acq On : 25 Sep 2025 20:02
 Operator : SY/MD
 Sample : Q3195-10
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Sep 26 01:38:45 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

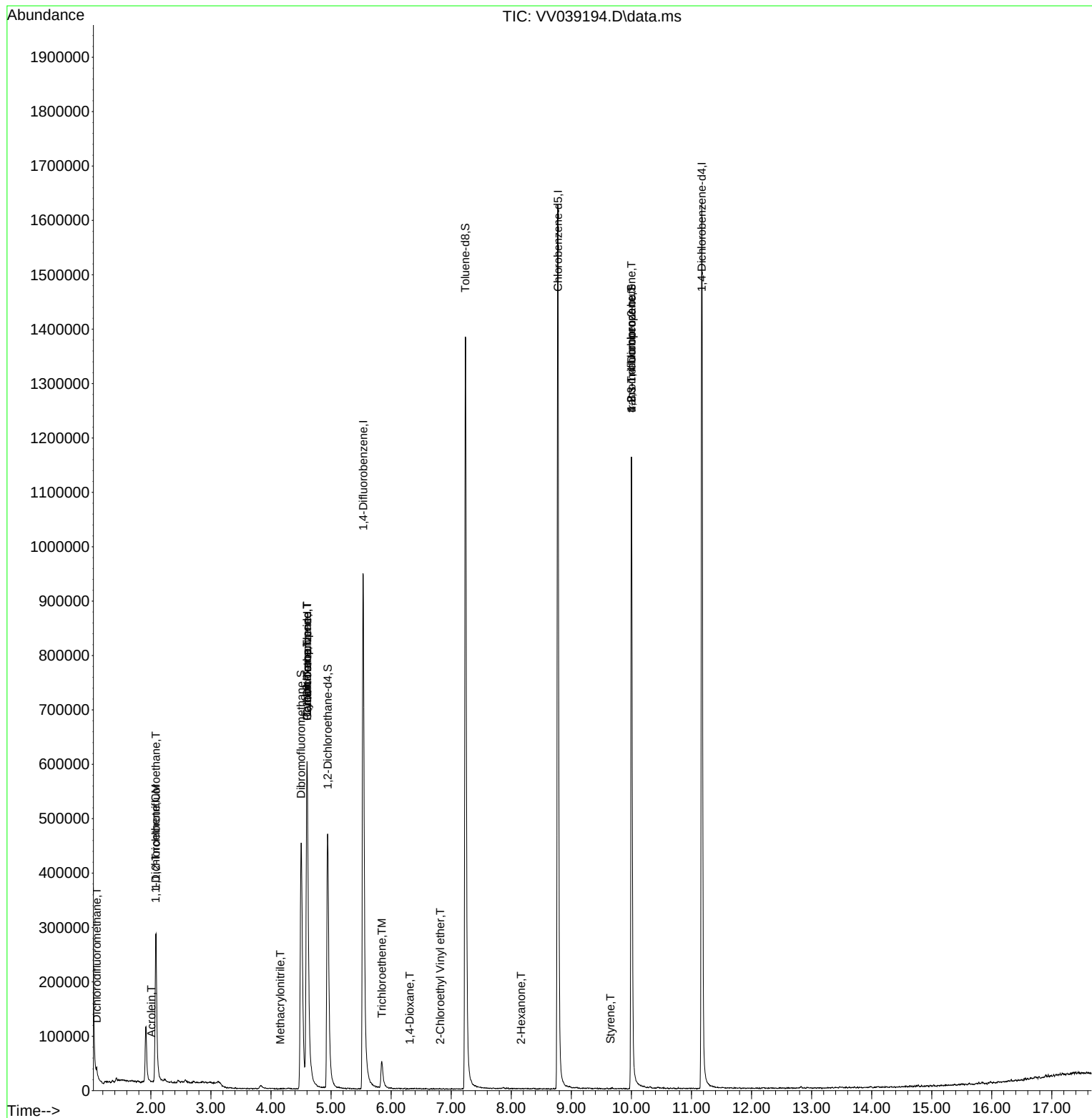
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.603	168	518728	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	934521	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	917520	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	439919	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.944	65	416831	55.522	ug/l	0.00
Spiked Amount	50.000	Range	81 - 118	Recovery	=	111.040%
35) Dibromofluoromethane	4.503	113	376755	50.148	ug/l	0.00
Spiked Amount	50.000	Range	80 - 119	Recovery	=	100.300%
50) Toluene-d8	7.236	98	1025800	46.490	ug/l	0.00
Spiked Amount	50.000	Range	89 - 112	Recovery	=	92.980%
62) 4-Bromofluorobenzene	10.001	95	396383	43.637	ug/l	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	=	87.280%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.098	85	1929	0.235	ug/l	91
6) Chloroethane	1.532	64	1245	Below Cal	#	44
9) 1,1,2-Trichlorotrifluo...	2.082	101	116384	14.316	ug/l	98
12) 1,1-Dichloroethene	2.079	96	4959	0.634	ug/l #	80
13) Acrolein	2.008	56	278	1.010	ug/l	90
16) Acetone	2.127	43	4283	Below Cal	#	70
20) Methylene Chloride	2.455	84	1461	Below Cal	#	62
31) Cyclohexane	4.600	56	11123	0.831	ug/l #	1
36) 1,1-Dichloropropene	4.600	75	44359	3.905	ug/l #	48
38) Carbon Tetrachloride	4.603	117	54872	3.953	ug/l #	16
41) Methacrylonitrile	4.156	41	98	1.926	ug/l #	51
44) Trichloroethene	5.847	130	22478	2.634	ug/l	97
49) 1,4-Dioxane	6.310	88	44	0.320	ug/l #	1
58) 2-Chloroethyl Vinyl ether	6.818	63	119	9.640	ug/l #	47
59) 2-Hexanone	8.165	43	94	2.335	ug/l	98
70) Styrene	9.654	104	92	1.565	ug/l #	60
76) 1,2,3-Trichloropropane	10.001	75	194482	19.417	ug/l #	57
81) trans-1,4-Dichloro-2-b...	10.001	75	194482	46.613	ug/l #	13
92) 1,2-Dibromo-3-Chloropr...	12.336	75	20	Below Cal	#	5

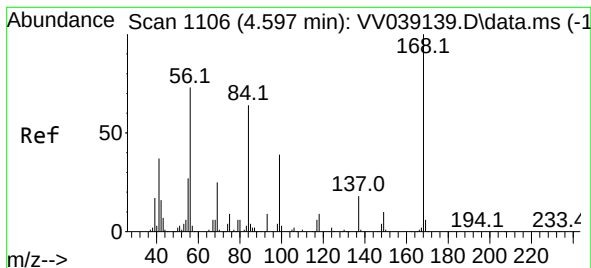
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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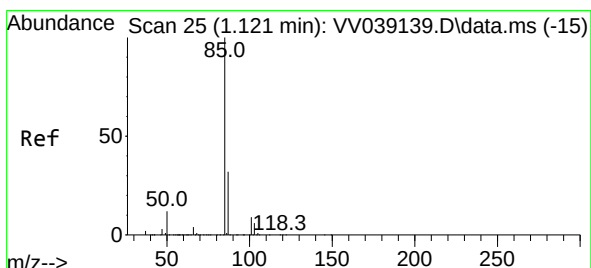
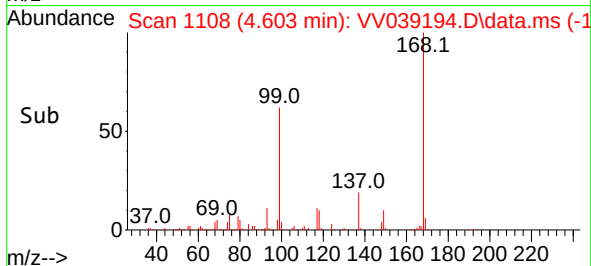
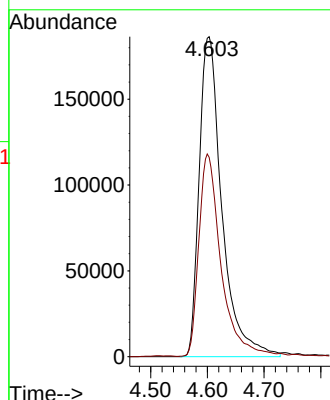
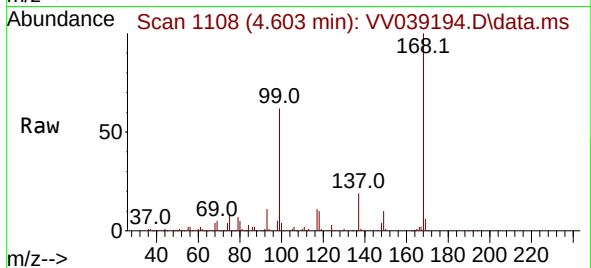




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.603 min Scan# 11
Delta R.T. 0.006 min
Lab File: VV039194.D
Acq: 25 Sep 2025 20:02

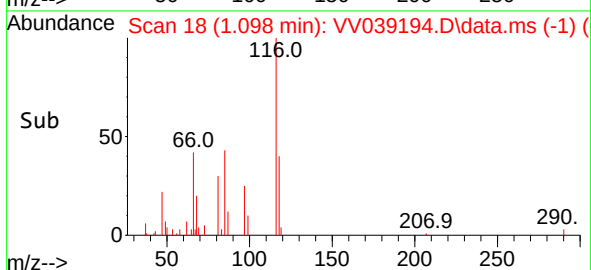
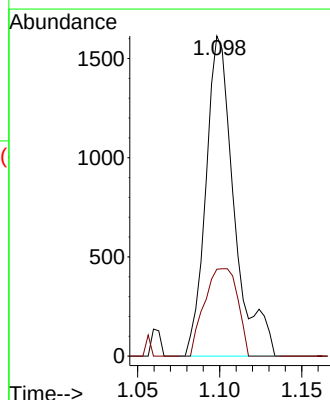
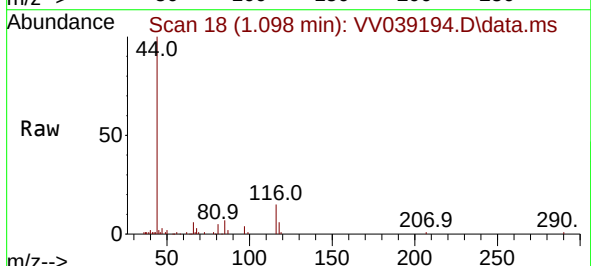
Instrument :
MSVOA_V
ClientSampleId :

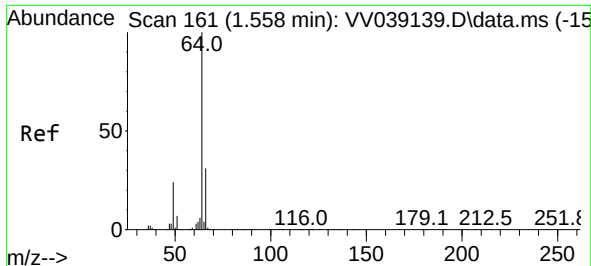
Tgt Ion:168 Resp: 518728
Ion Ratio Lower Upper
168 100
99 62.2 49.6 74.4



#2
Dichlorodifluoromethane
Concen: 0.235 ug/l
RT: 1.098 min Scan# 18
Delta R.T. -0.023 min
Lab File: VV039194.D
Acq: 25 Sep 2025 20:02

Tgt Ion: 85 Resp: 1929
Ion Ratio Lower Upper
85 100
87 27.1 16.0 47.9

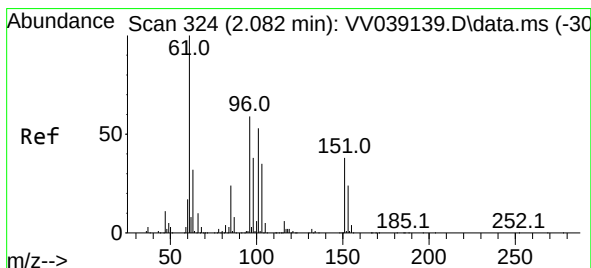
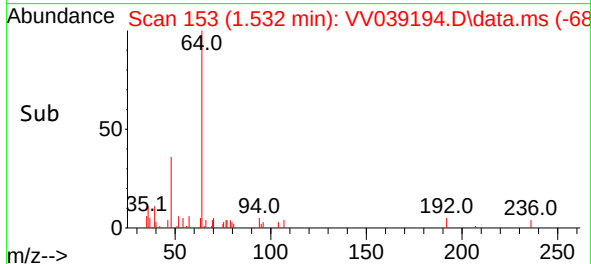
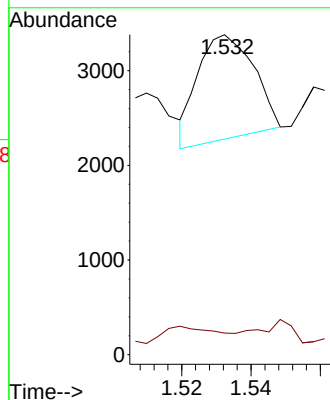
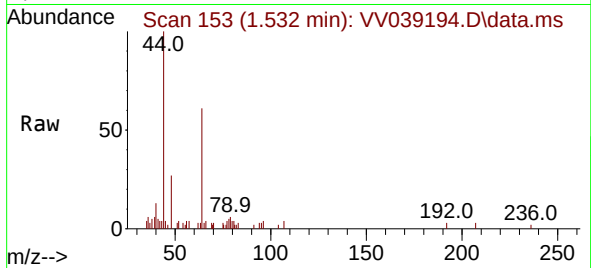




#6
Chloroethane
Concen: Below Cal
RT: 1.532 min Scan# 11
Delta R.T. -0.026 min
Lab File: VV039194.D
Acq: 25 Sep 2025 20:02

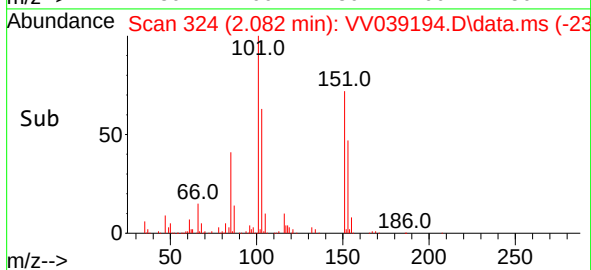
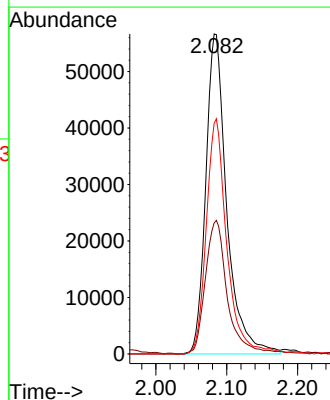
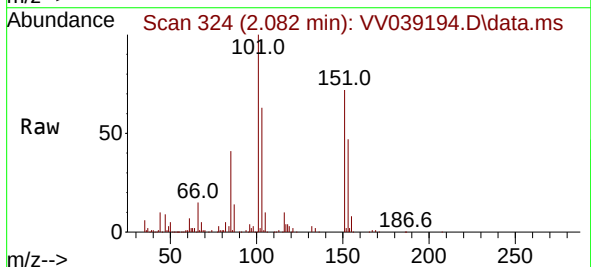
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MSVOA_V
ClientSampleId :

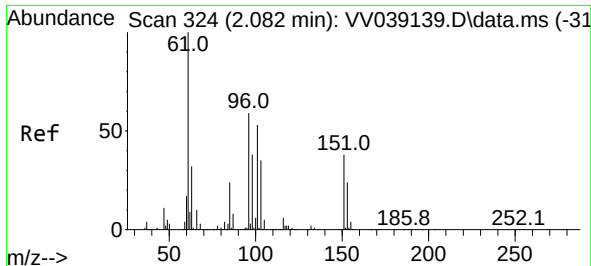
Tgt Ion: 64 Resp: 1245
Ion Ratio Lower Upper
64 100
66 0.0 24.6 36.8#



#9
1,1,2-Trichlorotrifluoroethane
Concen: 14.316 ug/l
RT: 2.082 min Scan# 324
Delta R.T. -0.000 min
Lab File: VV039194.D
Acq: 25 Sep 2025 20:02

Tgt Ion:101 Resp: 116384
Ion Ratio Lower Upper
101 100
85 44.0 36.2 54.2
151 72.0 56.3 84.5





#12

1,1-Dichloroethene

Concen: 0.634 ug/l

RT: 2.079 min Scan# 31

Delta R.T. -0.003 min

Lab File: VV039194.D

Acq: 25 Sep 2025 20:02

Instrument :

MSVOA_V

ClientSampleId :

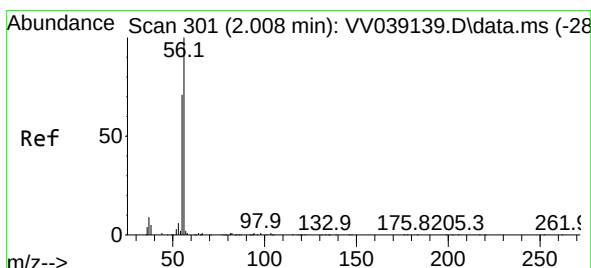
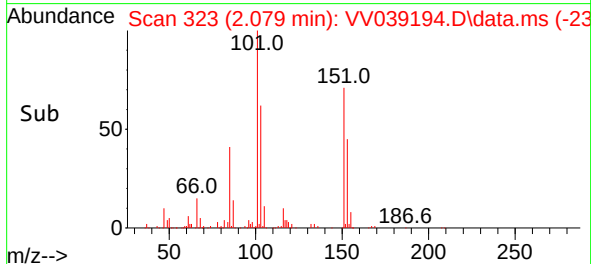
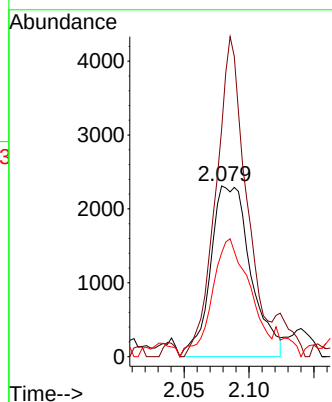
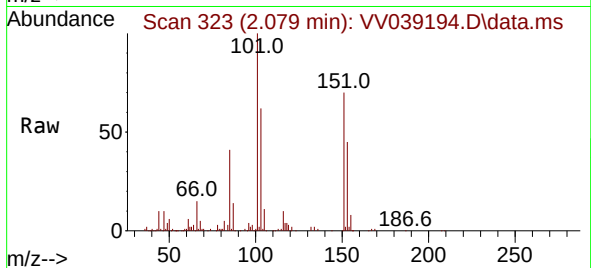
Tgt Ion: 96 Resp: 4959

Ion Ratio Lower Upper

96 100

61 133.4 136.0 204.0#

98 60.7 51.0 76.6



#13

Acrolein

Concen: 1.010 ug/l

RT: 2.008 min Scan# 301

Delta R.T. -0.000 min

Lab File: VV039194.D

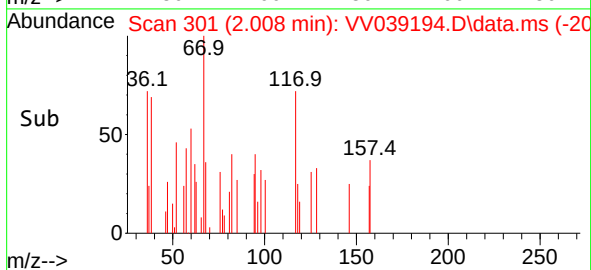
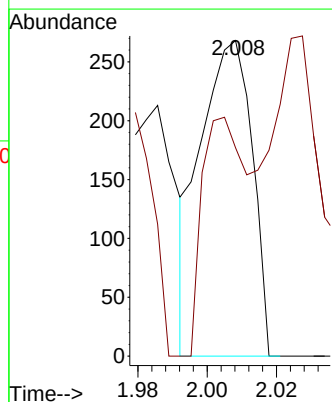
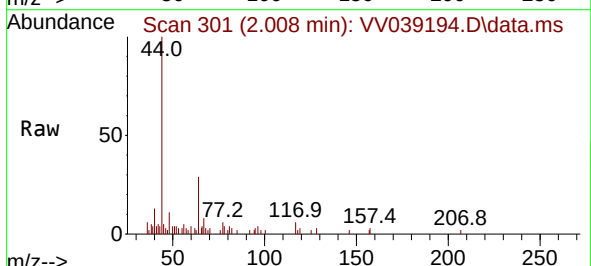
Acq: 25 Sep 2025 20:02

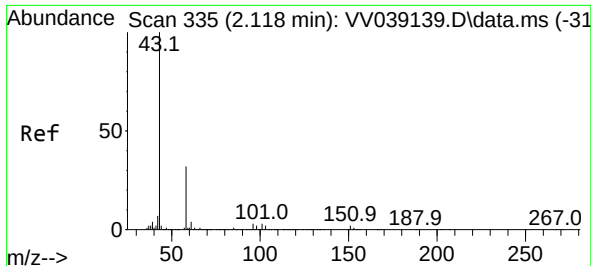
Tgt Ion: 56 Resp: 278

Ion Ratio Lower Upper

56 100

55 61.9 56.2 84.4

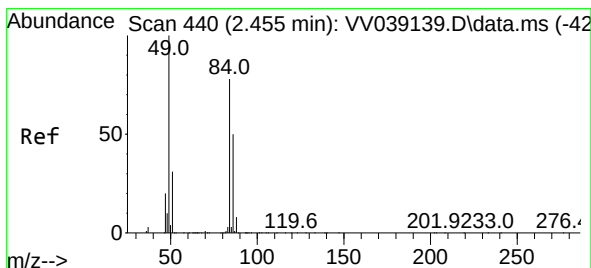
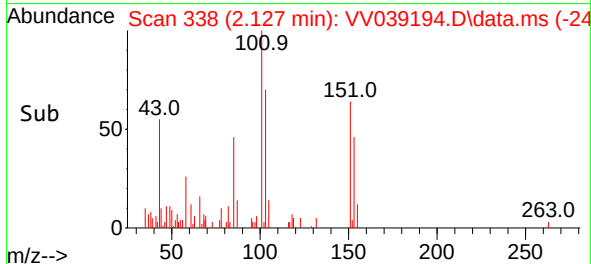
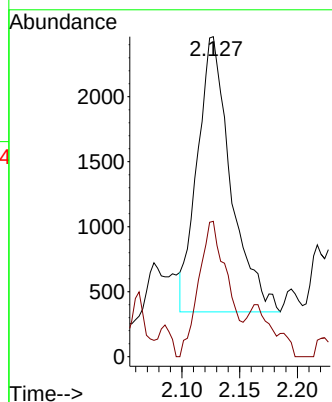
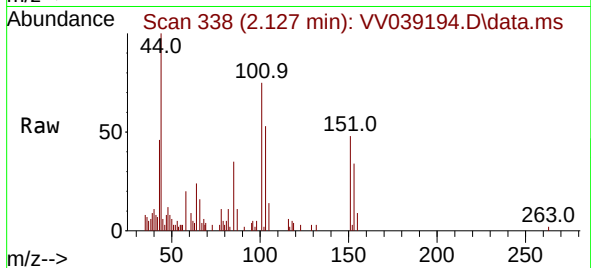




#16
Acetone
Concen: Below Cal
RT: 2.127 min Scan# 31
Delta R.T. 0.009 min
Lab File: VV039194.D
Acq: 25 Sep 2025 20:02

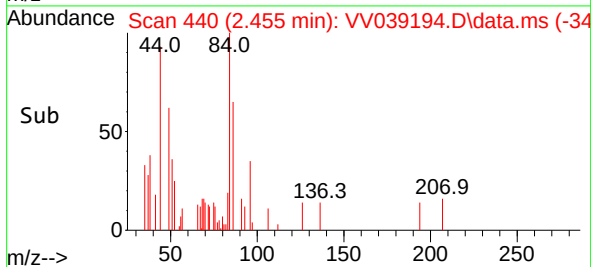
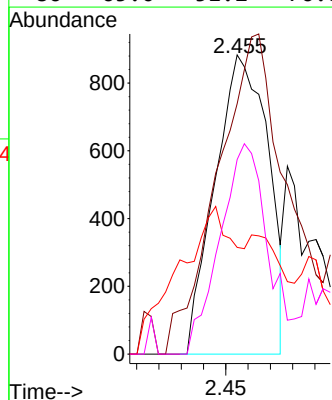
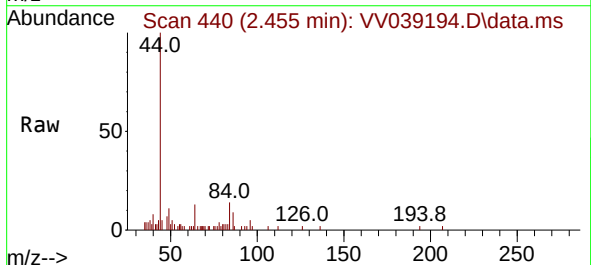
Instrument :
MSVOA_V
ClientSampleId :

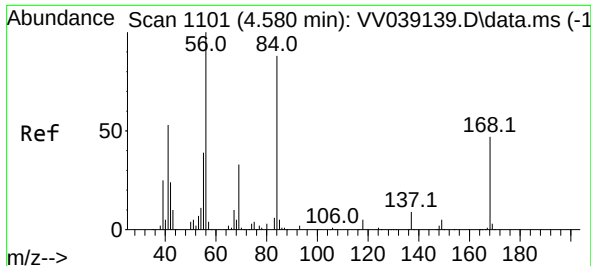
Tgt Ion: 43 Resp: 4283
Ion Ratio Lower Upper
43 100
58 49.2 25.8 38.6#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.455 min Scan# 440
Delta R.T. 0.000 min
Lab File: VV039194.D
Acq: 25 Sep 2025 20:02

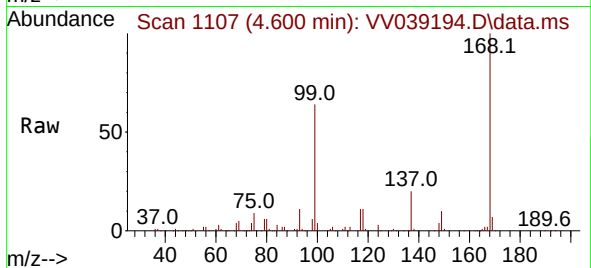
Tgt Ion: 84 Resp: 1461
Ion Ratio Lower Upper
84 100
49 69.1 102.8 154.2#
51 6.1 31.9 47.9#
86 65.0 51.2 76.8



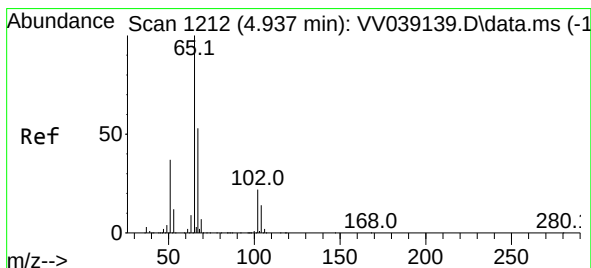
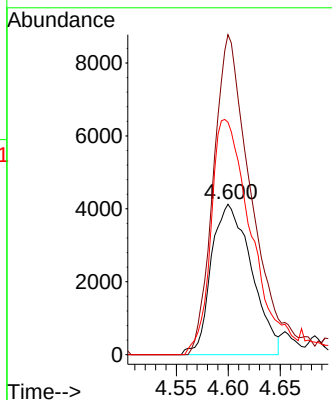
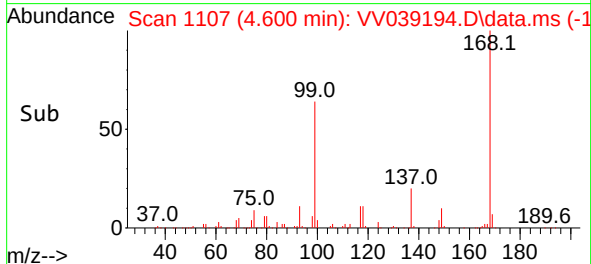


#31
Cyclohexane
Concen: 0.831 ug/l
RT: 4.600 min Scan# 1107
Delta R.T. 0.019 min
Lab File: VV039194.D
Acq: 25 Sep 2025 20:02

Instrument :
MSVOA_V
ClientSampleId :

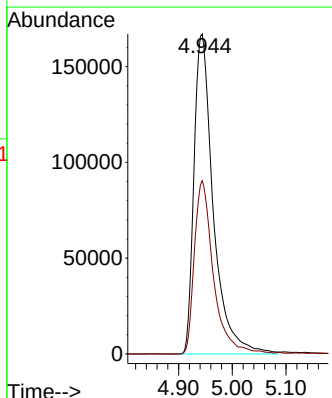
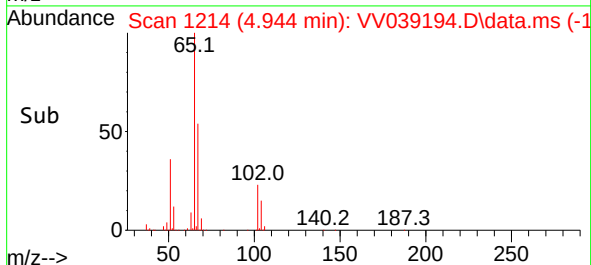
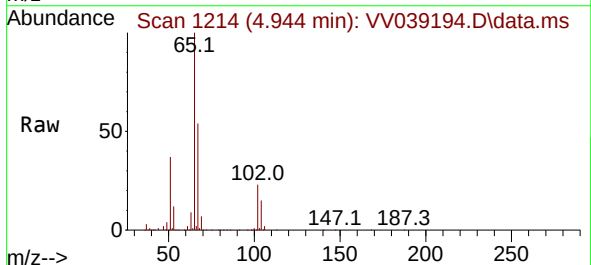


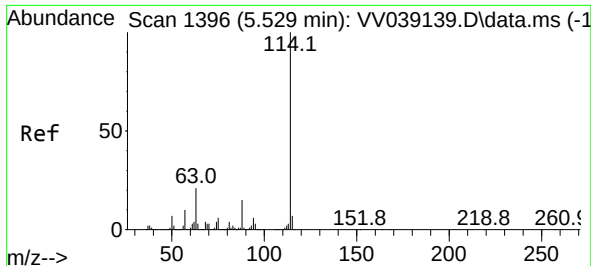
Tgt Ion: 56 Resp: 11123
Ion Ratio Lower Upper
56 100
69 212.6 26.2 39.2#
84 154.5 70.3 105.5#



#33
1,2-Dichloroethane-d4
Concen: 55.522 ug/l
RT: 4.944 min Scan# 1214
Delta R.T. 0.006 min
Lab File: VV039194.D
Acq: 25 Sep 2025 20:02

Tgt Ion: 65 Resp: 416831
Ion Ratio Lower Upper
65 100
67 53.0 0.0 107.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.535 min Scan# 11

Delta R.T. 0.006 min

Lab File: VV039194.D

Acq: 25 Sep 2025 20:02

Instrument :

MSVOA_V

ClientSampleId :

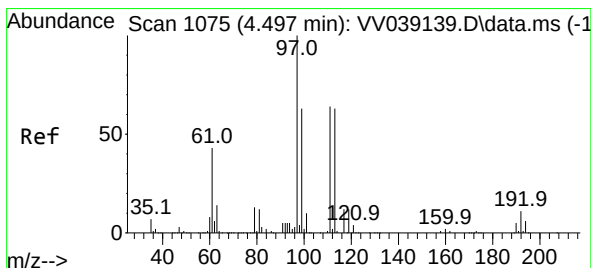
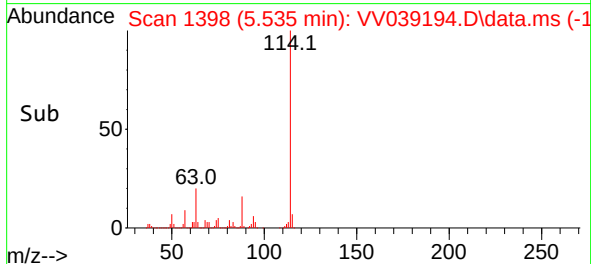
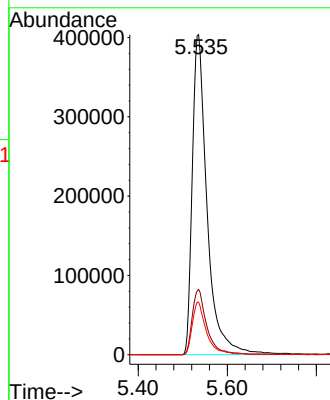
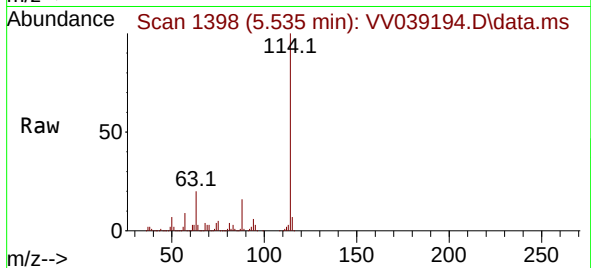
Tgt Ion:114 Resp: 934521

Ion Ratio Lower Upper

114 100

63 20.4 0.0 42.6

88 16.4 0.0 30.8



#35

Dibromofluoromethane

Concen: 50.148 ug/l

RT: 4.503 min Scan# 1077

Delta R.T. 0.006 min

Lab File: VV039194.D

Acq: 25 Sep 2025 20:02

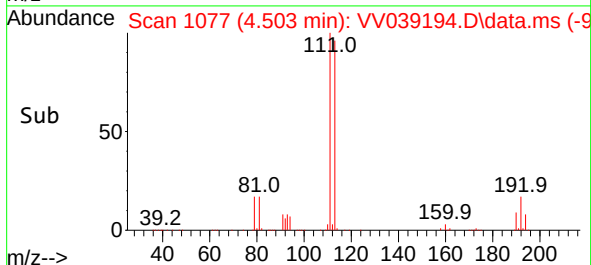
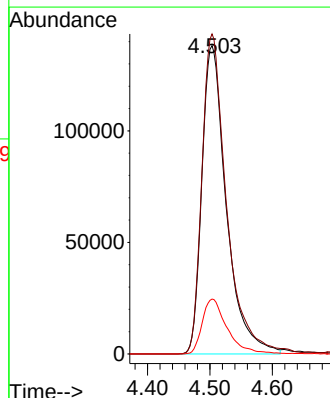
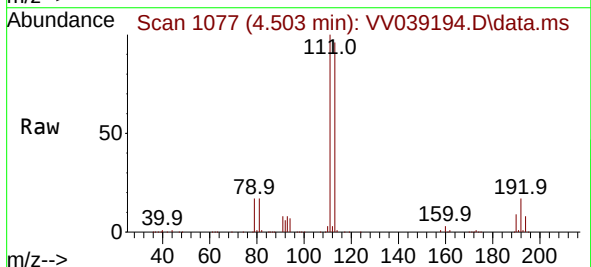
Tgt Ion:113 Resp: 376755

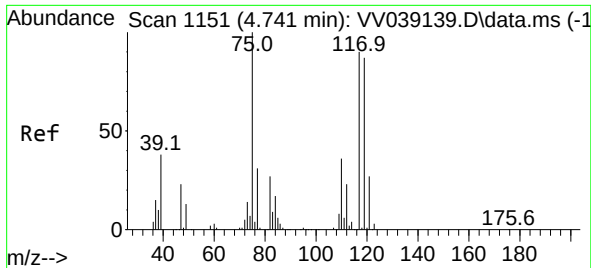
Ion Ratio Lower Upper

113 100

111 104.8 82.4 123.6

192 18.2 13.8 20.8

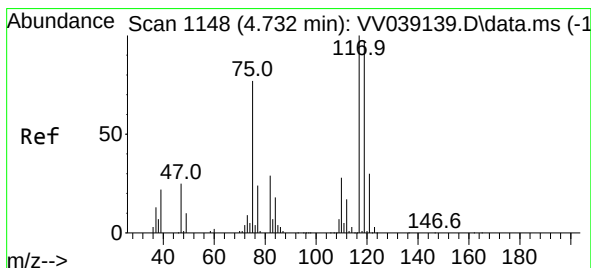
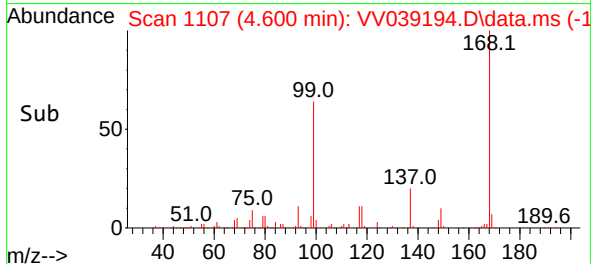
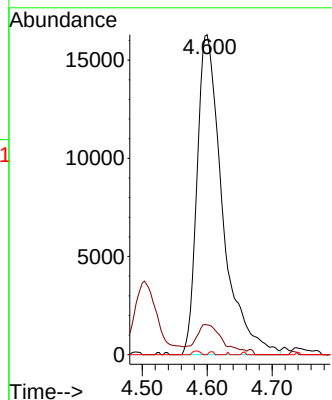
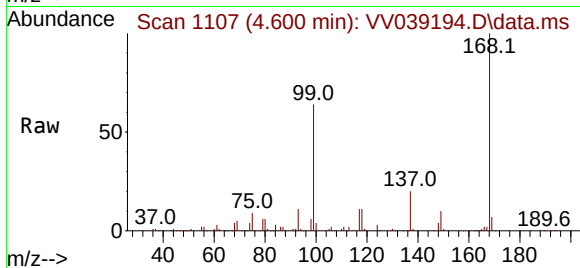




#36
 1,1-Dichloropropene
 Concen: 3.905 ug/l
 RT: 4.600 min Scan# 1107
 Delta R.T. -0.141 min
 Lab File: VV039194.D
 Acq: 25 Sep 2025 20:02

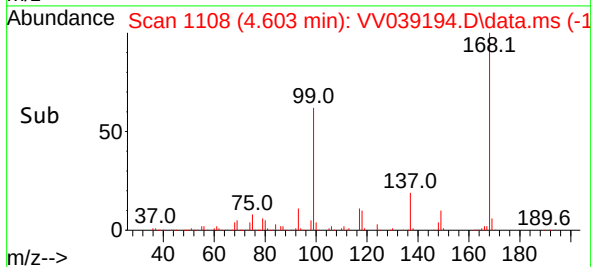
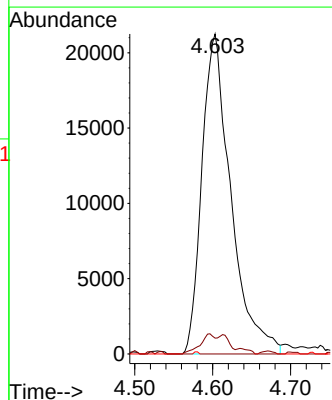
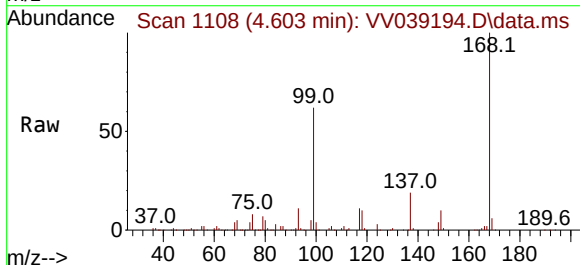
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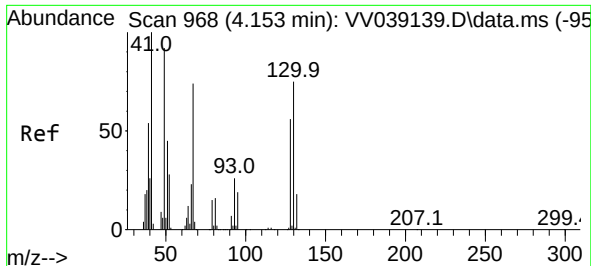
Tgt Ion: 75 Resp: 44359
 Ion Ratio Lower Upper
 75 100
 110 8.1 18.1 54.1#
 77 0.2 24.8 37.2#



#38
 Carbon Tetrachloride
 Concen: 3.953 ug/l
 RT: 4.603 min Scan# 1108
 Delta R.T. -0.129 min
 Lab File: VV039194.D
 Acq: 25 Sep 2025 20:02

Tgt Ion: 117 Resp: 54872
 Ion Ratio Lower Upper
 117 100
 119 5.0 77.2 115.8#
 121 0.0 24.2 36.2#

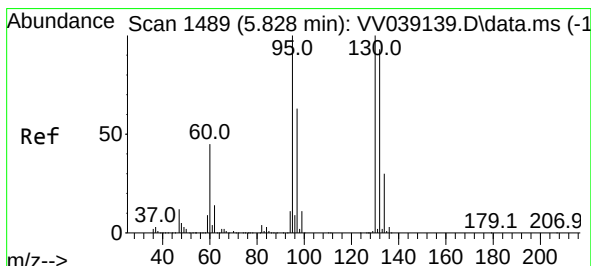
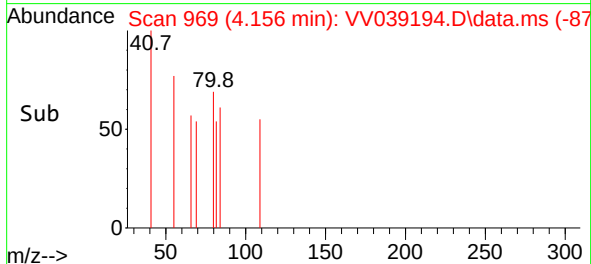
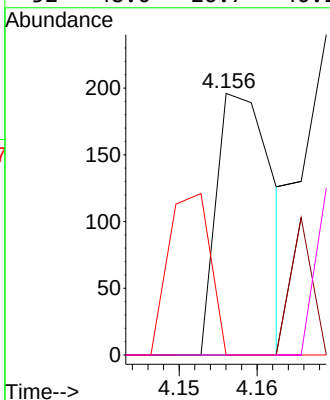
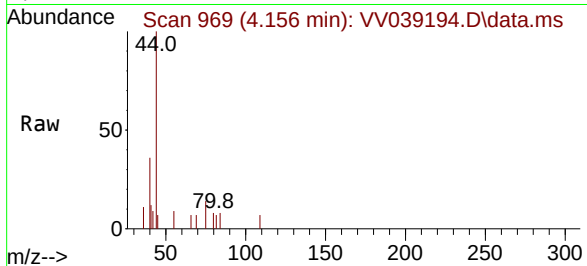




#41
Methacrylonitrile
Concen: 1.926 ug/l
RT: 4.156 min Scan# 90
Delta R.T. 0.003 min
Lab File: VV039194.D
Acq: 25 Sep 2025 20:02

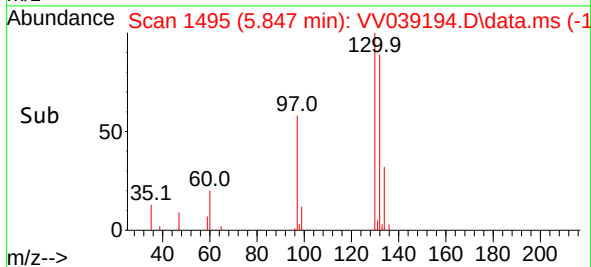
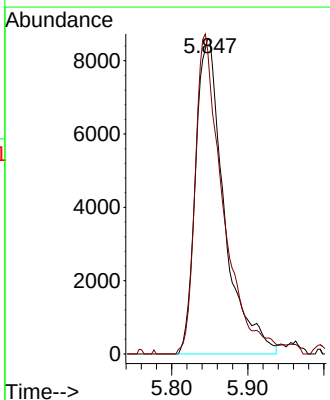
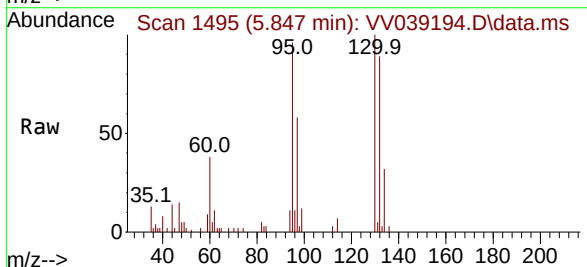
Instrument :
MSVOA_V
ClientSampleId :

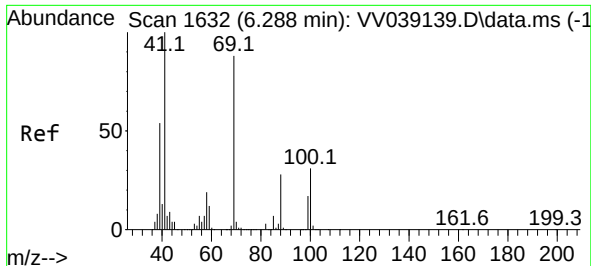
Tgt Ion: 41 Resp: 98
Ion Ratio Lower Upper
41 100
39 0.0 42.2 63.2#
67 45.9 67.9 101.9#
52 48.0 26.7 40.1#



#44
Trichloroethene
Concen: 2.634 ug/l
RT: 5.847 min Scan# 1495
Delta R.T. 0.019 min
Lab File: VV039194.D
Acq: 25 Sep 2025 20:02

Tgt Ion:130 Resp: 22478
Ion Ratio Lower Upper
130 100
95 96.2 0.0 199.2





#49

1,4-Dioxane

Concen: 0.320 ug/l

RT: 6.310 min Scan# 1

Delta R.T. 0.022 min

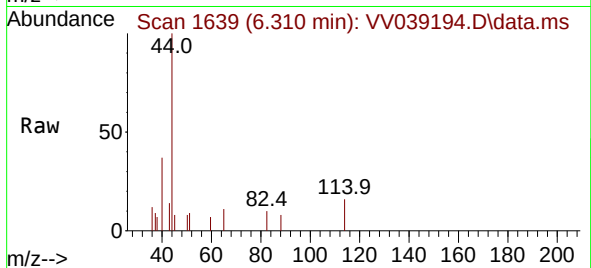
Lab File: VV039194.D

Acq: 25 Sep 2025 20:02

Instrument :

MSVOA_V

ClientSampleId :



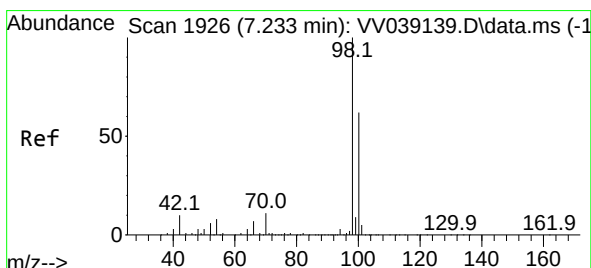
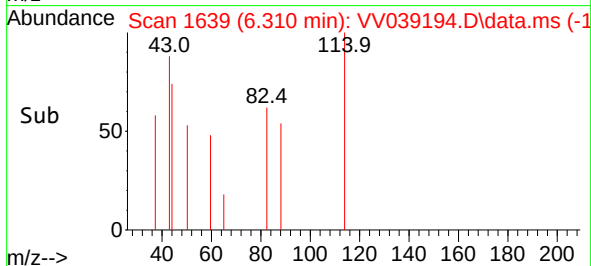
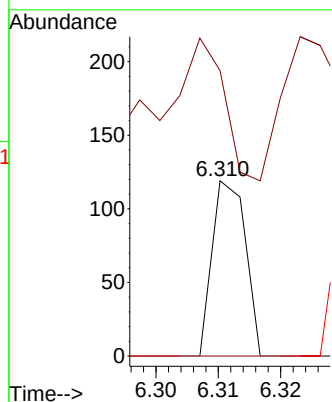
Tgt Ion: 88 Resp: 44

Ion Ratio Lower Upper

88 100

43 579.5 25.1 37.7#

58 0.0 53.6 80.4#



#50

Toluene-d8

Concen: 46.490 ug/l

RT: 7.236 min Scan# 1927

Delta R.T. 0.003 min

Lab File: VV039194.D

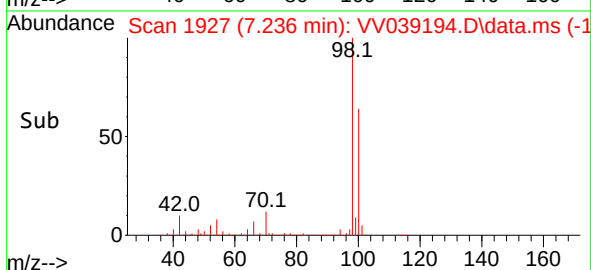
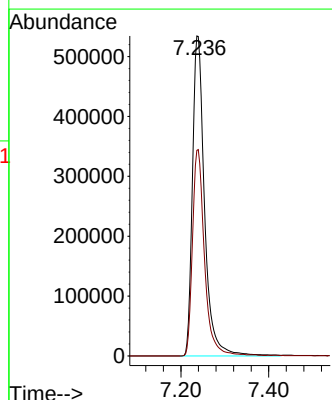
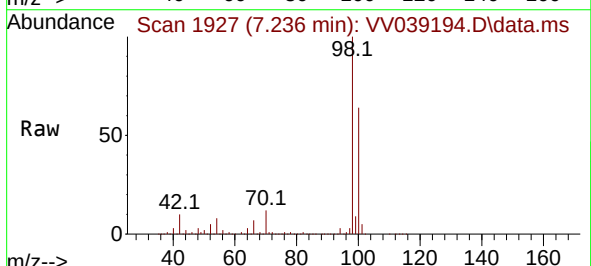
Acq: 25 Sep 2025 20:02

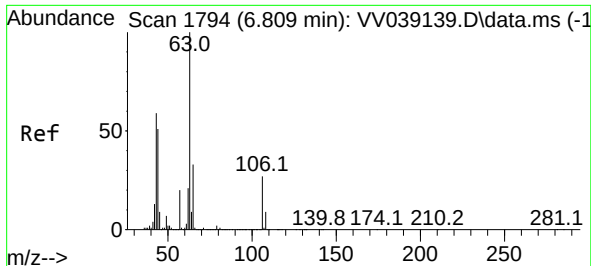
Tgt Ion: 98 Resp: 1025800

Ion Ratio Lower Upper

98 100

100 63.8 52.2 78.2

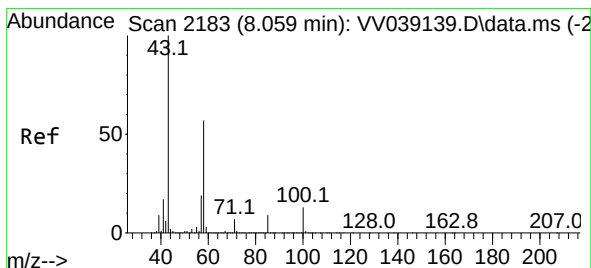
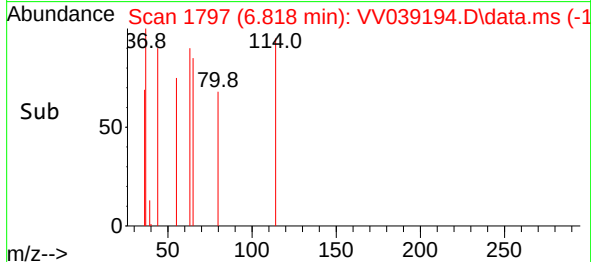
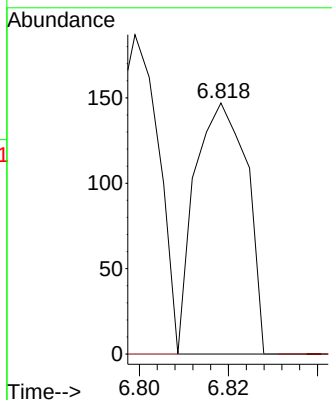
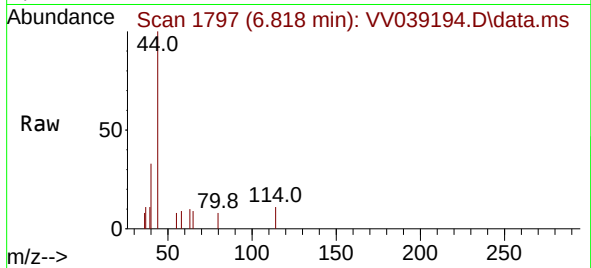




#58
2-Chloroethyl Vinyl ether
Concen: 9.640 ug/l
RT: 6.818 min Scan# 119
Delta R.T. 0.009 min
Lab File: VV039194.D
Acq: 25 Sep 2025 20:02

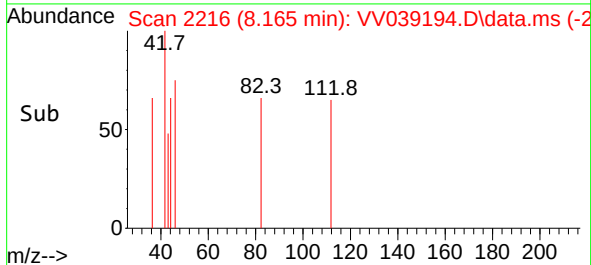
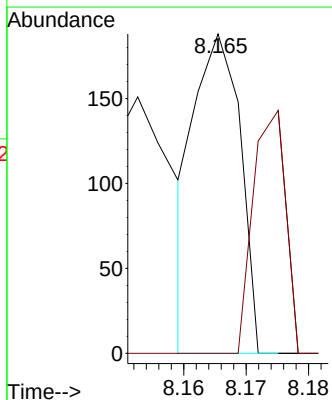
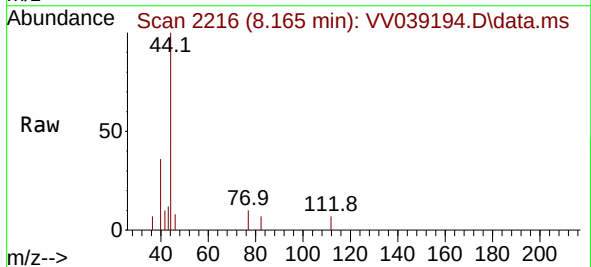
Instrument :
MSVOA_V
ClientSampleId :

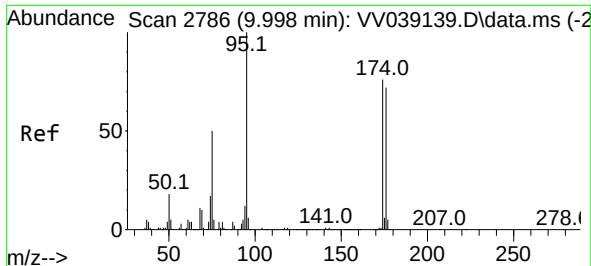
Tgt Ion: 63 Resp: 119
Ion Ratio Lower Upper
63 100
106 0.0 22.1 33.1#



#59
2-Hexanone
Concen: 2.335 ug/l
RT: 8.165 min Scan# 2216
Delta R.T. 0.107 min
Lab File: VV039194.D
Acq: 25 Sep 2025 20:02

Tgt Ion: 43 Resp: 94
Ion Ratio Lower Upper
43 100
58 55.3 28.3 85.0

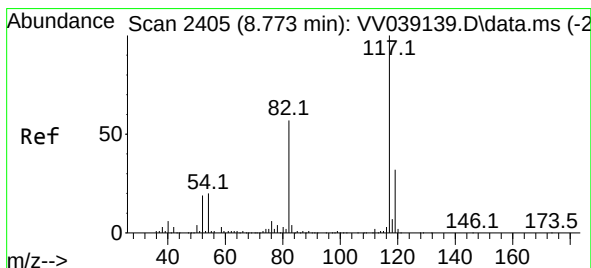
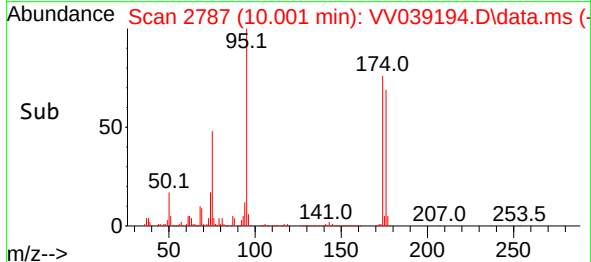
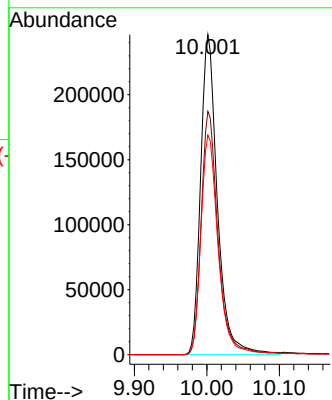
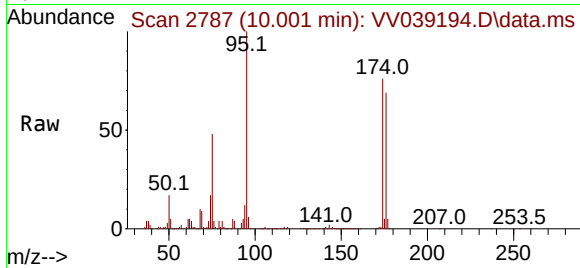




#62
4-Bromofluorobenzene
Concen: 43.637 ug/l
RT: 10.001 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV039194.D
Acq: 25 Sep 2025 20:02

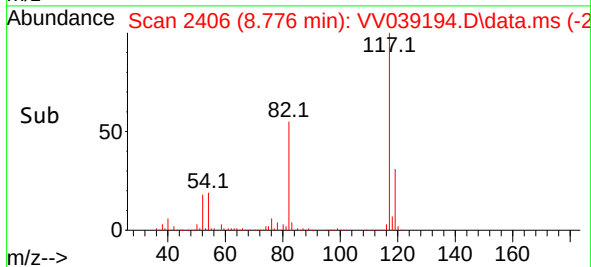
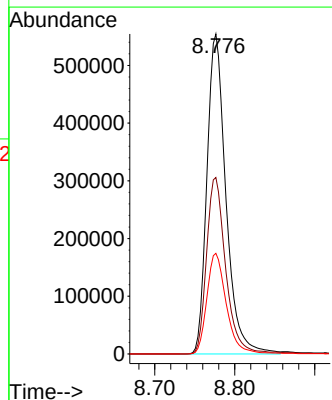
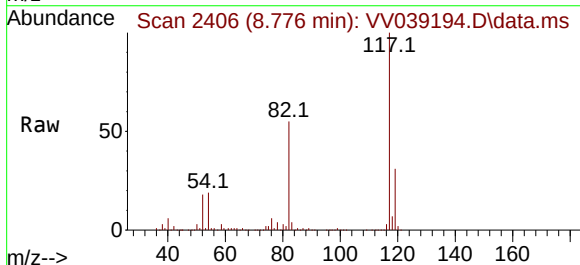
Instrument :
MSVOA_V
ClientSampleId :

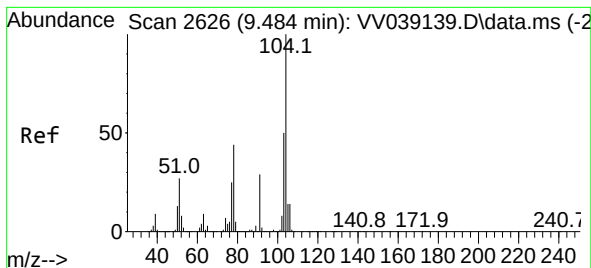
Tgt Ion: 95 Resp: 396383
Ion Ratio Lower Upper
95 100
174 76.0 0.0 150.4
176 70.8 0.0 144.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 2406
Delta R.T. 0.003 min
Lab File: VV039194.D
Acq: 25 Sep 2025 20:02

Tgt Ion: 117 Resp: 917520
Ion Ratio Lower Upper
117 100
82 55.1 45.4 68.2
119 31.5 25.6 38.4





#70

Styrene

Concen: 1.565 ug/l

RT: 9.654 min Scan# 2

Delta R.T. 0.170 min

Lab File: VV039194.D

Acq: 25 Sep 2025 20:02

Instrument :

MSVOA_V

ClientSampleId :

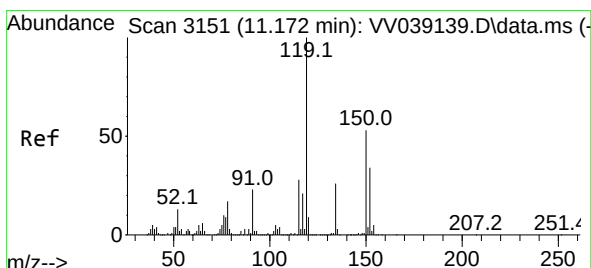
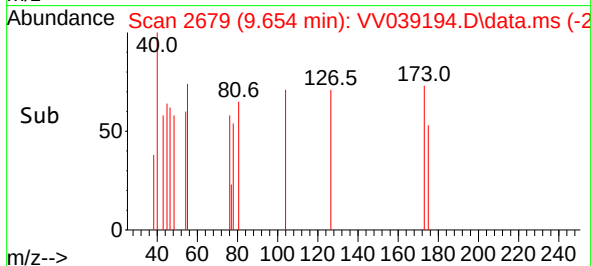
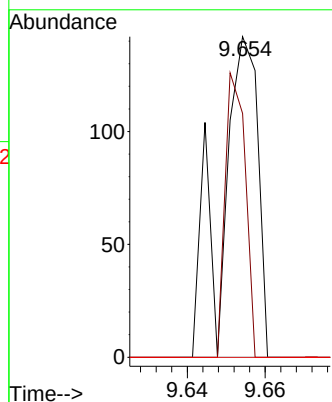
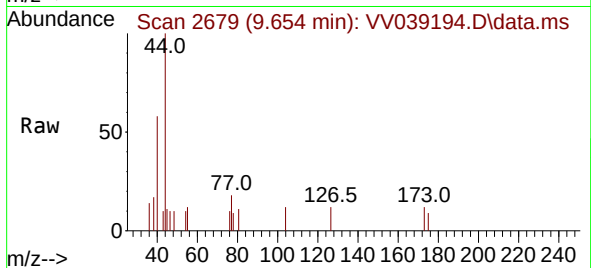
Tgt Ion:104 Resp: 92

Ion Ratio Lower Upper

104 100

78 48.9 39.8 59.6

103 0.0 43.4 65.2#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.172 min Scan# 3151

Delta R.T. -0.000 min

Lab File: VV039194.D

Acq: 25 Sep 2025 20:02

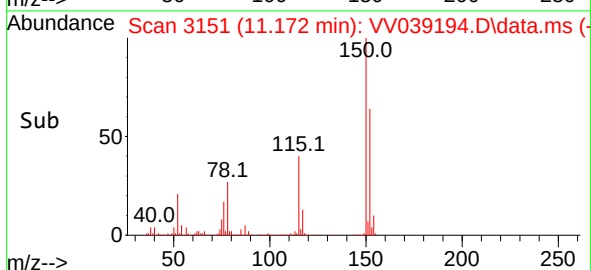
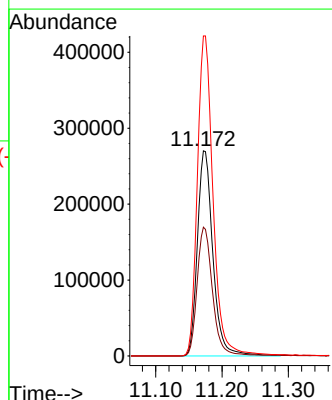
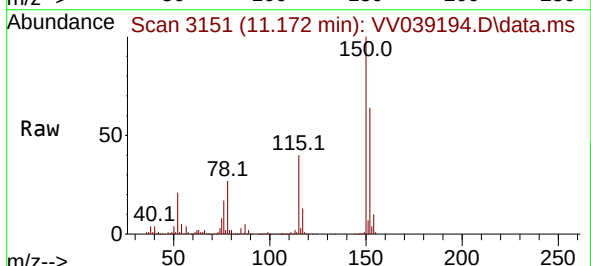
Tgt Ion:152 Resp: 439919

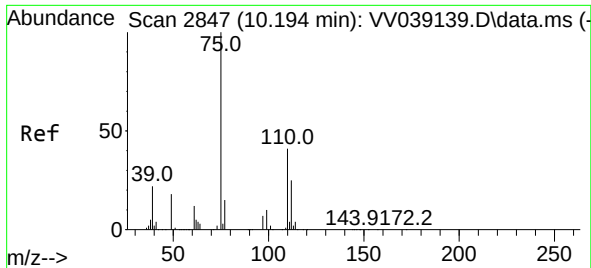
Ion Ratio Lower Upper

152 100

115 62.1 44.8 134.4

150 158.3 0.0 353.8

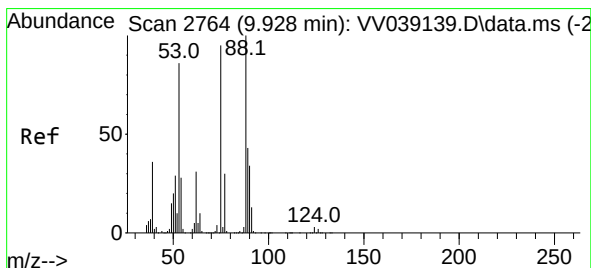
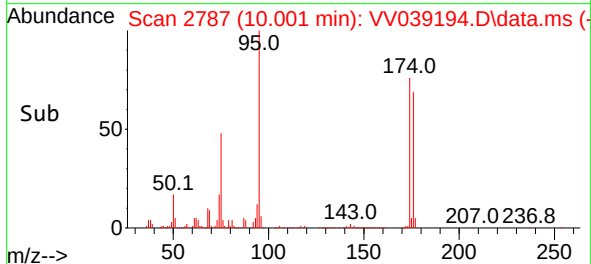
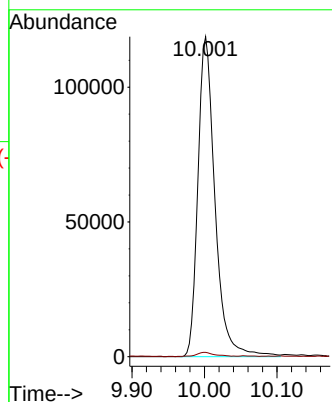
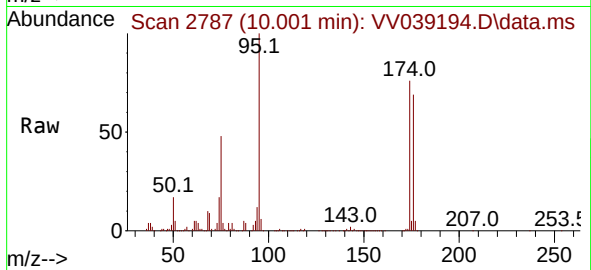




#76
1,2,3-Trichloropropane
Concen: 19.417 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. -0.193 min
Lab File: VV039194.D
Acq: 25 Sep 2025 20:02

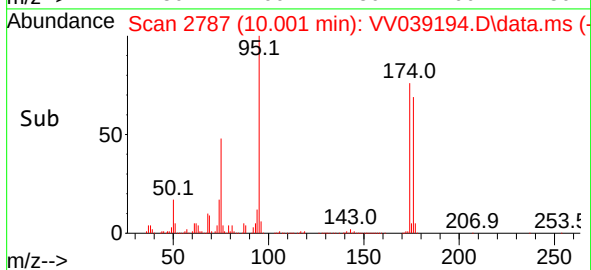
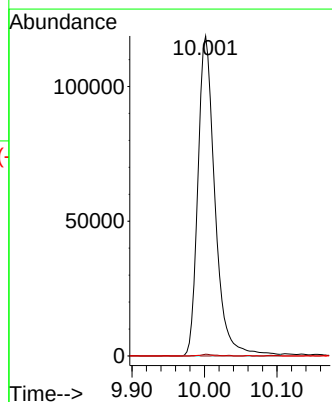
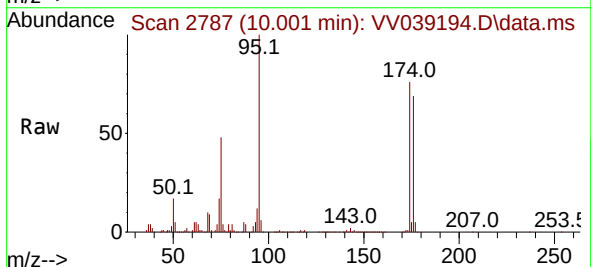
Instrument :
MSVOA_V
ClientSampleId :

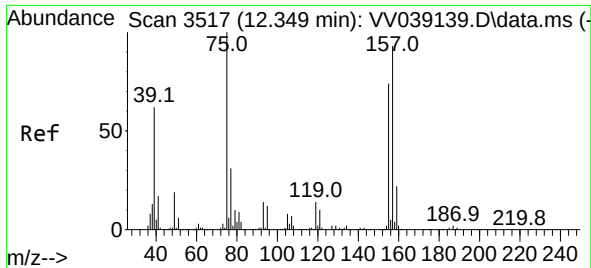
Tgt Ion: 75 Resp: 194482
Ion Ratio Lower Upper
75 100
77 1.6 11.3 33.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 46.613 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. 0.074 min
Lab File: VV039194.D
Acq: 25 Sep 2025 20:02

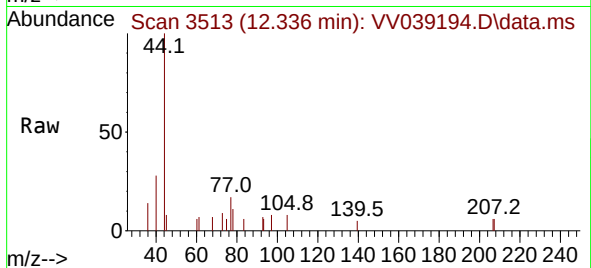
Tgt Ion: 75 Resp: 194482
Ion Ratio Lower Upper
75 100
53 0.4 72.5 108.7#
89 0.0 37.2 55.8#





#92
1,2-Dibromo-3-Chloropropane
Concen: Below Cal
RT: 12.336 min Scan# 31
Delta R.T. -0.013 min
Lab File: VV039194.D
Acq: 25 Sep 2025 20:02

Instrument :
MSVOA_V
ClientSampleId :



Tgt Ion:	75	Resp:	20
Ion	Ratio	Lower	Upper
75	100		
155	0.0	38.6	115.8#
157	0.0	49.5	148.3#

