

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
 Data File : VV039182.D
 Acq On : 25 Sep 2025 15:33
 Operator : SY/MD
 Sample : Q3172-01DL 100X
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 FW7DDL

Quant Time: Sep 26 01:30:43 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

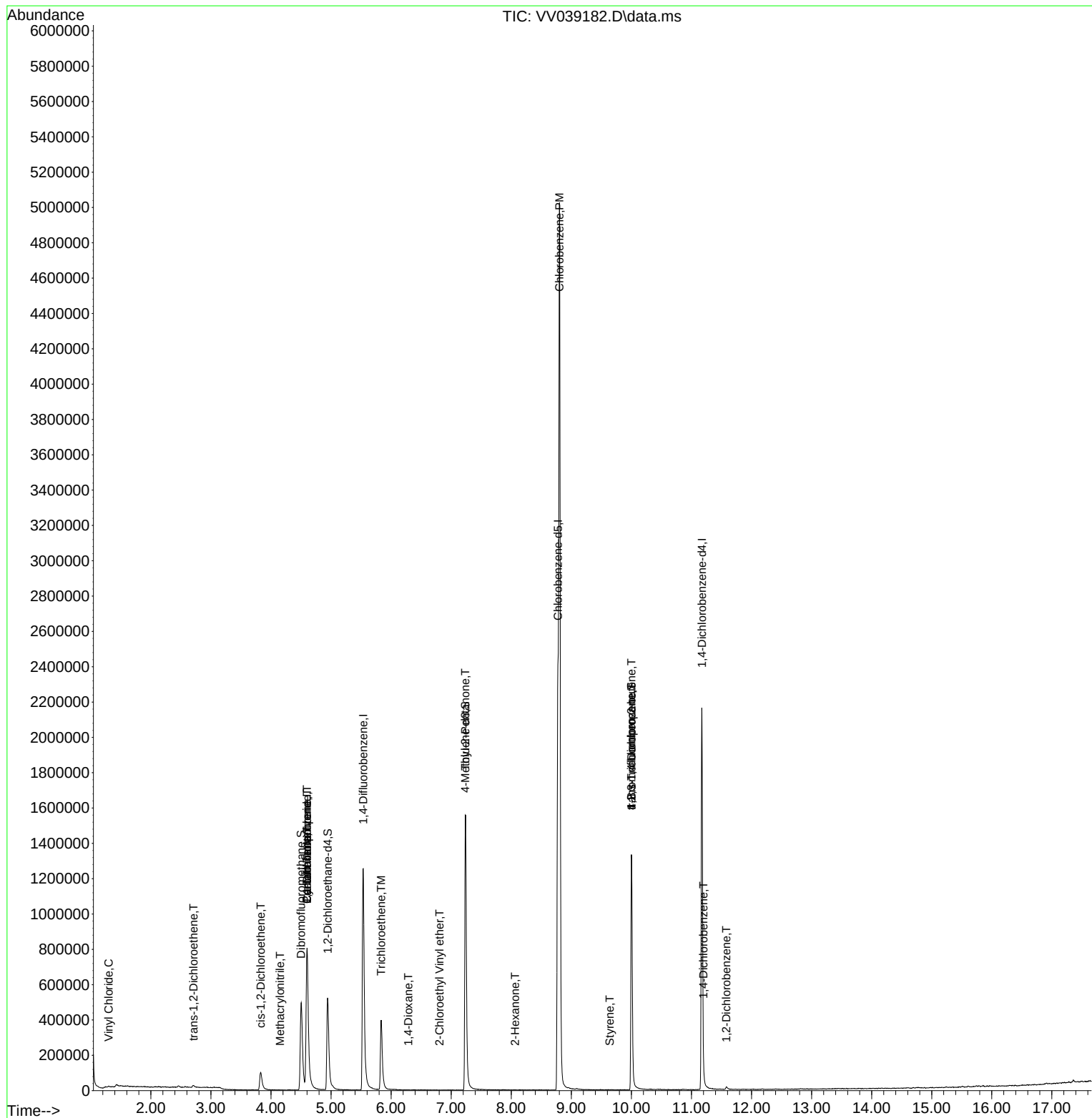
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.600	168	686688	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	1217519	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	1189450	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.175	152	556145	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.944	65	468975	47.188	ug/l	0.00
Spiked Amount	50.000	Range	81 - 118	Recovery	=	94.380%
35) Dibromofluoromethane	4.503	113	418030	42.709	ug/l	0.00
Spiked Amount	50.000	Range	80 - 119	Recovery	=	85.420%
50) Toluene-d8	7.236	98	1147282	39.909	ug/l	0.00
Spiked Amount	50.000	Range	89 - 112	Recovery	=	79.820%#
62) 4-Bromofluorobenzene	10.001	95	465413	39.327	ug/l	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	=	78.660%#
Target Compounds						
					Qvalue	
4) Vinyl Chloride	1.297	62	3724	0.298	ug/l	89
6) Chloroethane	1.513	64	728	Below Cal	#	51
16) Acetone	2.124	43	2155	Below Cal	#	82
20) Methylene Chloride	2.458	84	4110	Below Cal	#	91
21) trans-1,2-Dichloroethene	2.712	96	4306	0.391	ug/l	85
27) cis-1,2-Dichloroethene	3.828	96	66779	5.493	ug/l	89
31) Cyclohexane	4.600	56	14198	0.801	ug/l #	1
36) 1,1-Dichloropropene	4.600	75	58516	3.954	ug/l #	49
38) Carbon Tetrachloride	4.600	117	72589	4.014	ug/l #	16
41) Methacrylonitrile	4.153	41	91	1.921	ug/l #	1
44) Trichloroethene	5.834	130	163013	14.660	ug/l	93
49) 1,4-Dioxane	6.284	88	103	0.575	ug/l #	1
51) 4-Methyl-2-Pentanone	7.233	43	4418	0.274	ug/l #	1
58) 2-Chloroethyl Vinyl ether	6.805	63	41	9.627	ug/l #	47
59) 2-Hexanone	8.062	43	83	2.332	ug/l #	23
65) Chlorobenzene	8.802	112	2711601	81.844	ug/l	98
70) Styrene	9.638	104	41	1.563	ug/l #	1
76) 1,2,3-Trichloropropane	10.001	75	231583	18.289	ug/l #	57
81) trans-1,4-Dichloro-2-b...	10.001	75	231583	43.906	ug/l #	13
88) 1,4-Dichlorobenzene	11.197	146	6000	0.258	ug/l #	51
91) 1,2-Dichlorobenzene	11.580	146	7095	0.359	ug/l	87
92) 1,2-Dibromo-3-Chloropr...	12.355	75	101	Below Cal	#	5

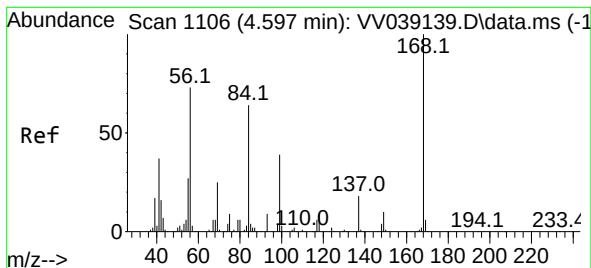
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.600 min Scan# 1106

Delta R.T. 0.003 min

Lab File: VV039182.D

Acq: 25 Sep 2025 15:33

Instrument :

MSVOA_V

ClientSampleId :

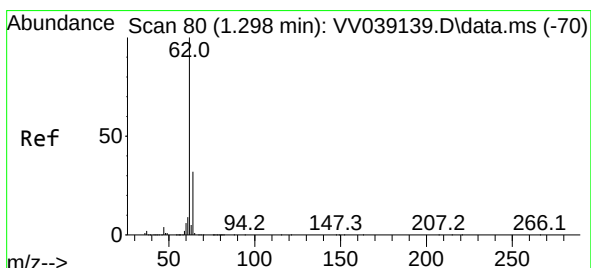
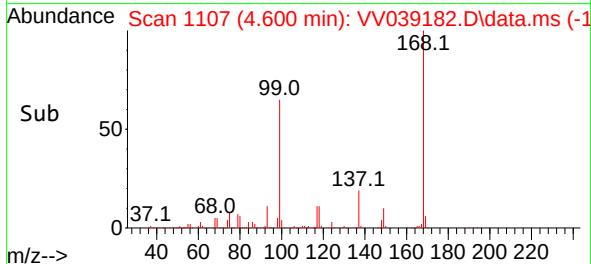
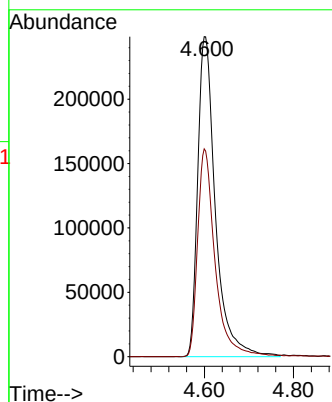
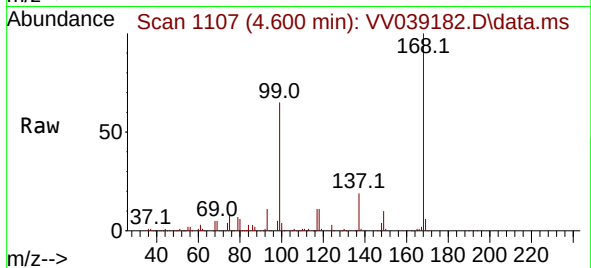
FW7DDL

Tgt Ion:168 Resp: 686688

Ion Ratio Lower Upper

168 100

99 64.9 49.6 74.4



#4

Vinyl Chloride

Concen: 0.298 ug/l

RT: 1.297 min Scan# 80

Delta R.T. -0.000 min

Lab File: VV039182.D

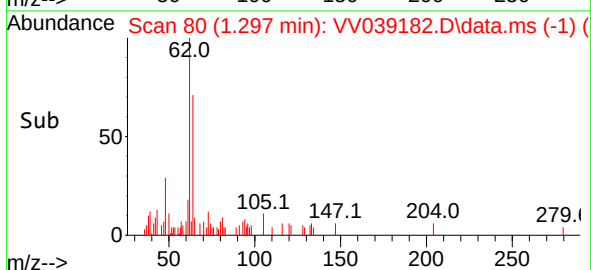
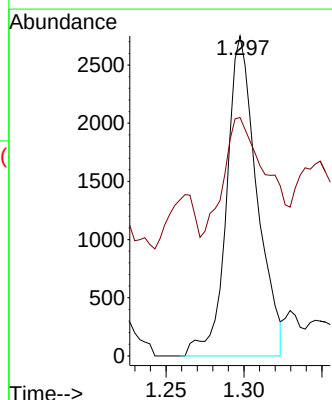
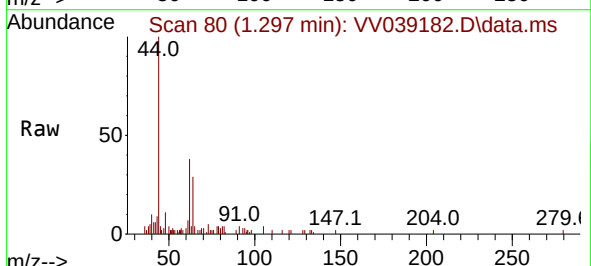
Acq: 25 Sep 2025 15:33

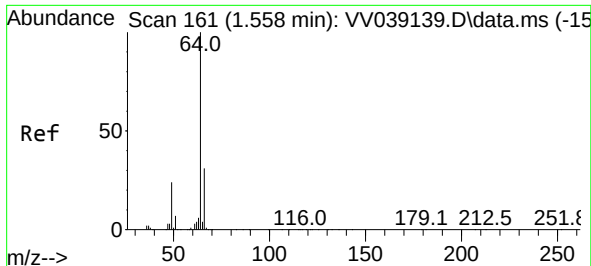
Tgt Ion: 62 Resp: 3724

Ion Ratio Lower Upper

62 100

64 25.8 25.6 38.4

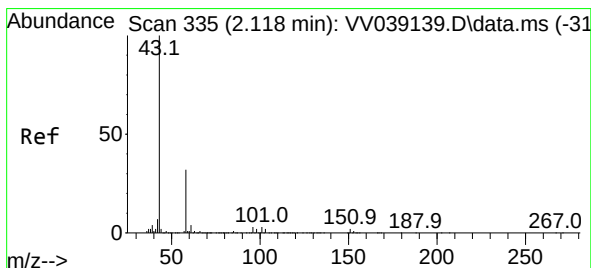
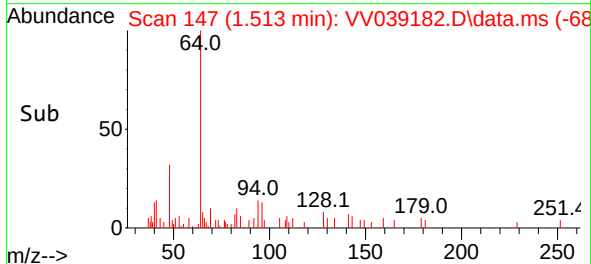
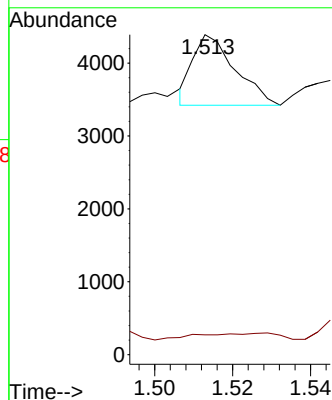
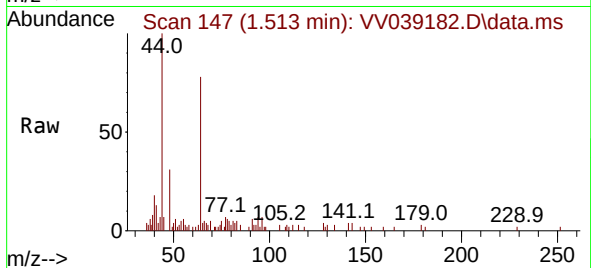




#6
Chloroethane
Concen: Below Cal
RT: 1.513 min Scan# 14
Delta R.T. -0.045 min
Lab File: VV039182.D
Acq: 25 Sep 2025 15:33

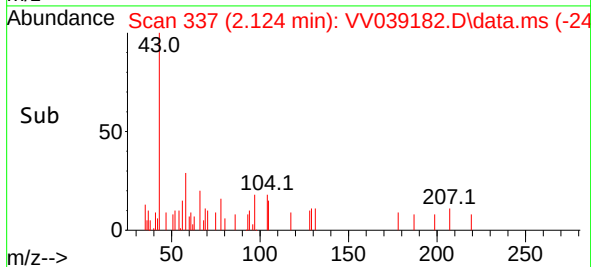
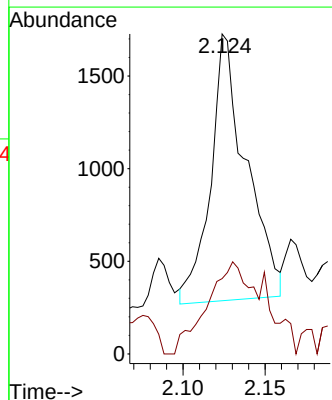
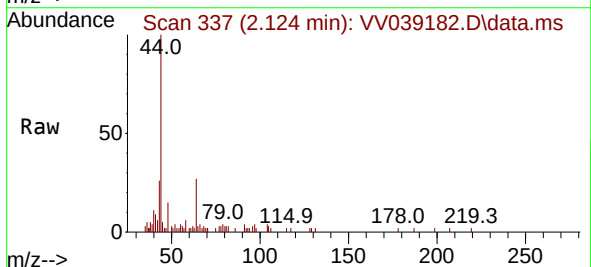
Instrument :
MSVOA_V
ClientSampleId :
FW7DDL

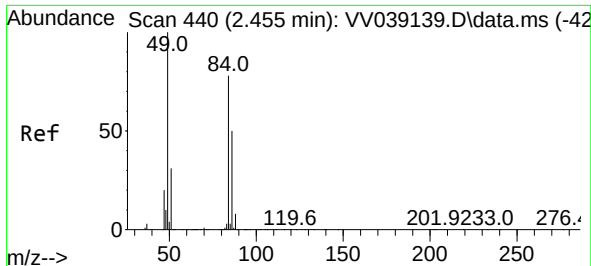
Tgt Ion: 64 Resp: 728
Ion Ratio Lower Upper
64 100
66 3.9 24.6 36.8#



#16
Acetone
Concen: Below Cal
RT: 2.124 min Scan# 337
Delta R.T. 0.006 min
Lab File: VV039182.D
Acq: 25 Sep 2025 15:33

Tgt Ion: 43 Resp: 2155
Ion Ratio Lower Upper
43 100
58 21.9 25.8 38.6#

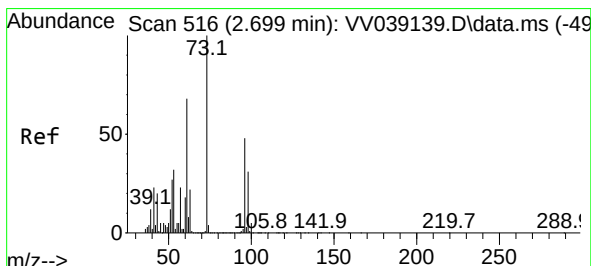
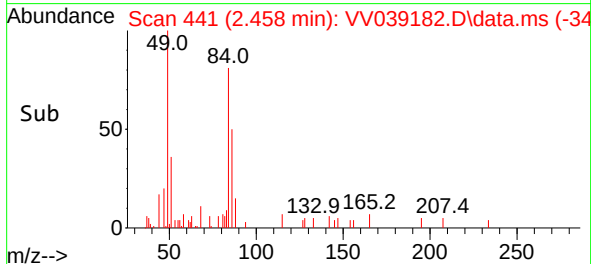
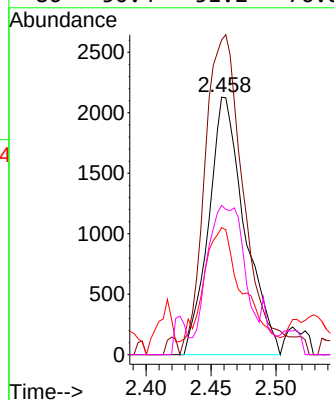
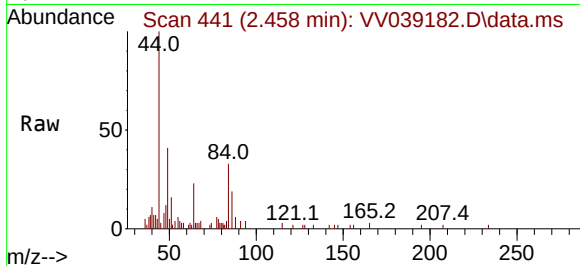




#20
Methylene Chloride
Concen: Below Cal
RT: 2.458 min Scan# 441
Delta R.T. 0.003 min
Lab File: VV039182.D
Acq: 25 Sep 2025 15:33

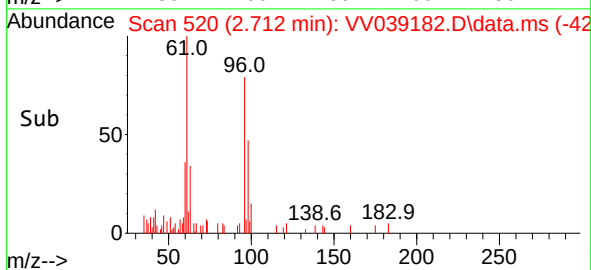
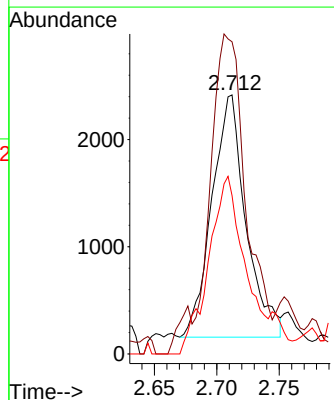
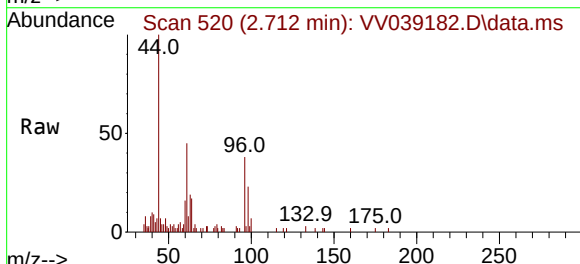
Instrument :
MSVOA_V
ClientSampleId :
FW7DDL

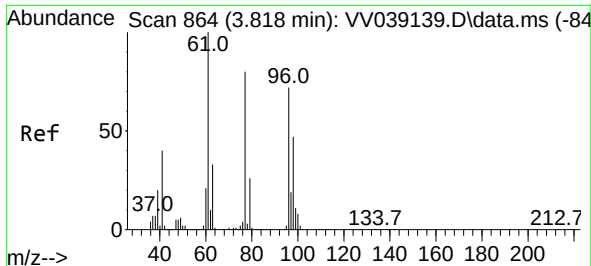
Tgt Ion:	84	Resp:	4110
Ion	Ratio	Lower	Upper
84	100		
49	122.2	102.8	154.2
51	44.3	31.9	47.9
86	50.4	51.2	76.8



#21
trans-1,2-Dichloroethene
Concen: 0.391 ug/l
RT: 2.712 min Scan# 520
Delta R.T. 0.013 min
Lab File: VV039182.D
Acq: 25 Sep 2025 15:33

Tgt Ion:	96	Resp:	4306
Ion	Ratio	Lower	Upper
96	100		
61	115.9	112.8	169.2
98	65.3	51.1	76.7

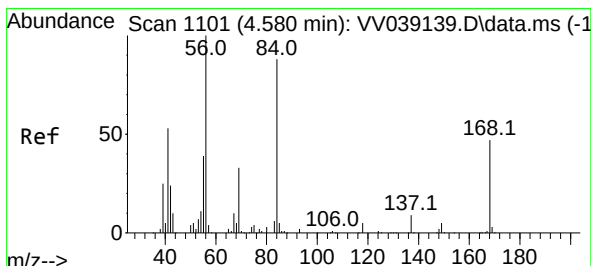
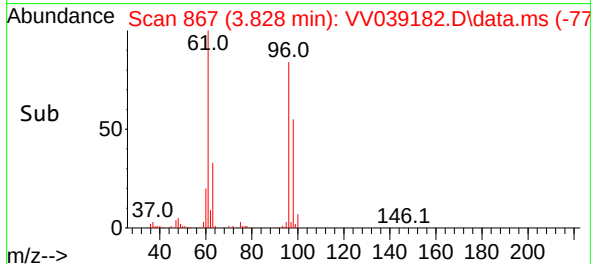
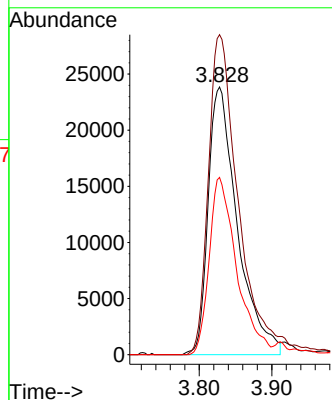
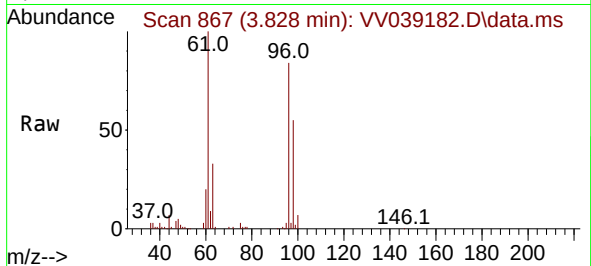




#27
 cis-1,2-Dichloroethene
 Concen: 5.493 ug/l
 RT: 3.828 min Scan# 80
 Delta R.T. 0.010 min
 Lab File: VV039182.D
 Acq: 25 Sep 2025 15:33

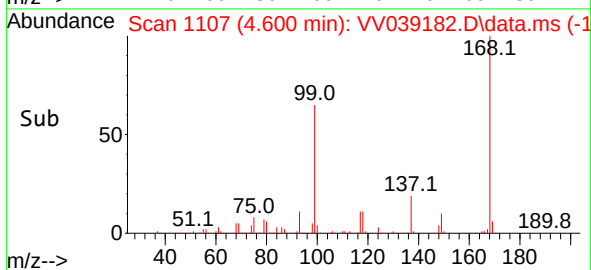
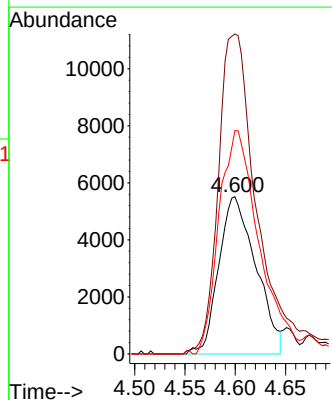
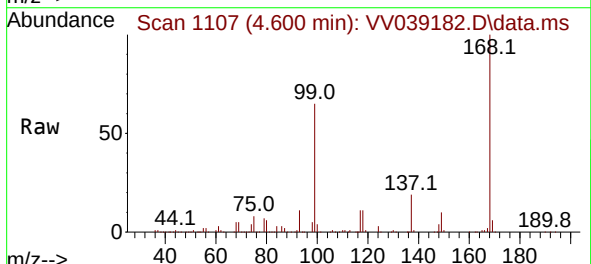
Instrument :
 MSVOA_V
 ClientSampleId :
 FW7DDL

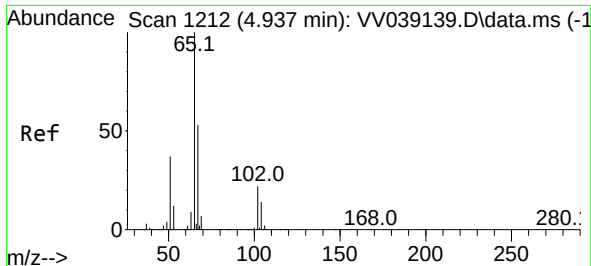
Tgt Ion: 96 Resp: 66779
 Ion Ratio Lower Upper
 96 100
 61 124.6 0.0 286.4
 98 62.3 0.0 126.6



#31
 Cyclohexane
 Concen: 0.801 ug/l
 RT: 4.600 min Scan# 1107
 Delta R.T. 0.019 min
 Lab File: VV039182.D
 Acq: 25 Sep 2025 15:33

Tgt Ion: 56 Resp: 14198
 Ion Ratio Lower Upper
 56 100
 69 203.4 26.2 39.2#
 84 142.0 70.3 105.5#





#33

1,2-Dichloroethane-d4

Concen: 47.188 ug/l

RT: 4.944 min Scan# 11

Delta R.T. 0.006 min

Lab File: VV039182.D

Acq: 25 Sep 2025 15:33

Instrument :

MSVOA_V

ClientSampleId :

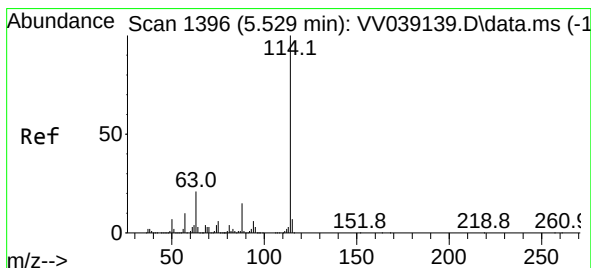
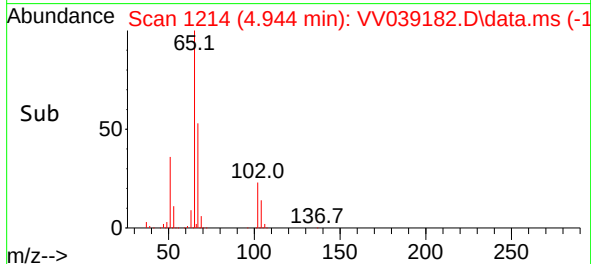
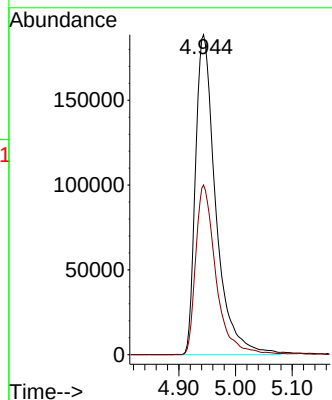
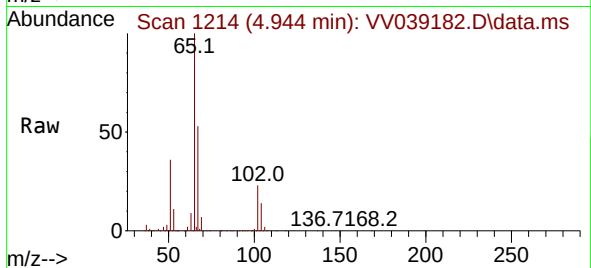
FW7DDL

Tgt Ion: 65 Resp: 468975

Ion Ratio Lower Upper

65 100

67 52.6 0.0 107.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.535 min Scan# 1398

Delta R.T. 0.006 min

Lab File: VV039182.D

Acq: 25 Sep 2025 15:33

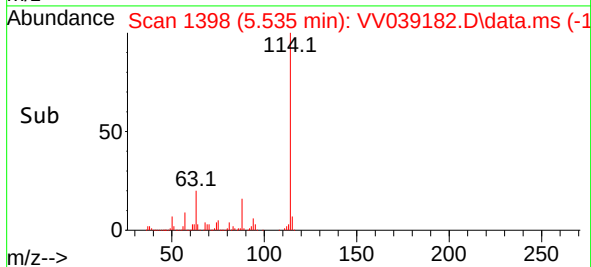
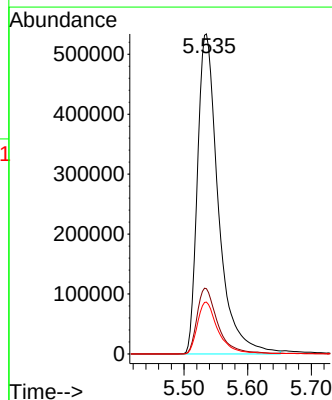
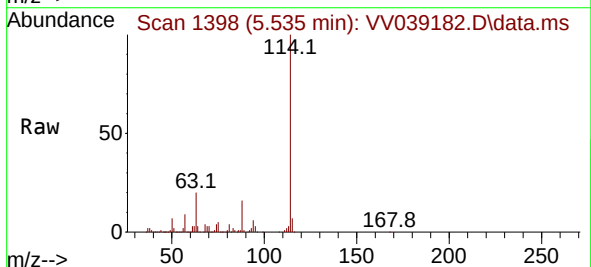
Tgt Ion: 114 Resp: 1217519

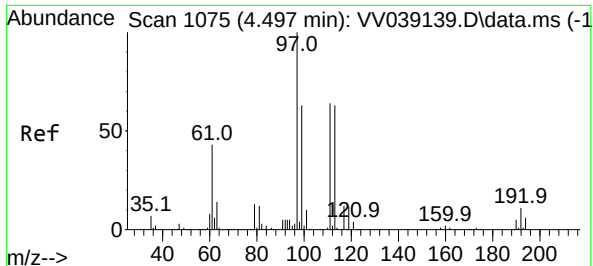
Ion Ratio Lower Upper

114 100

63 20.4 0.0 42.6

88 16.2 0.0 30.8

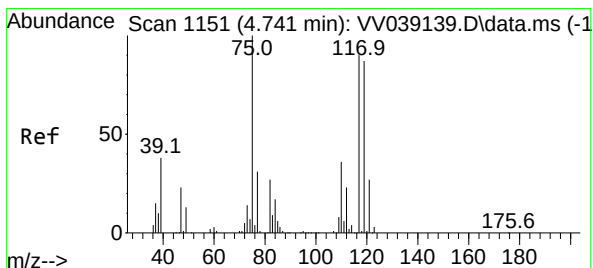
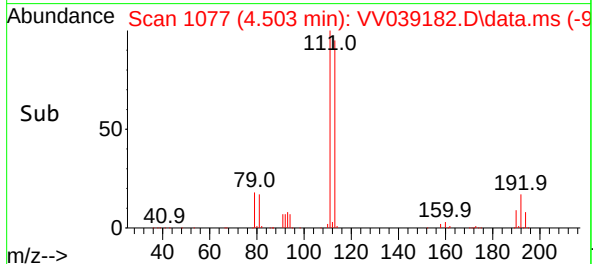
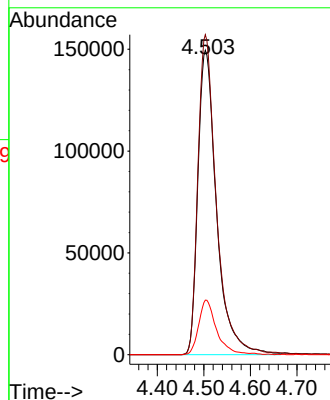
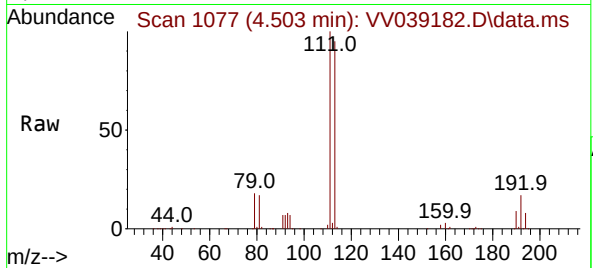




#35
Dibromofluoromethane
Concen: 42.709 ug/l
RT: 4.503 min Scan# 1107
Delta R.T. 0.006 min
Lab File: VV039182.D
Acq: 25 Sep 2025 15:33

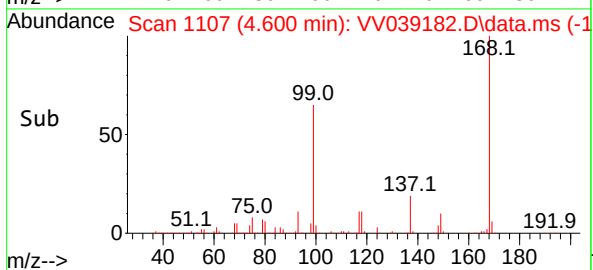
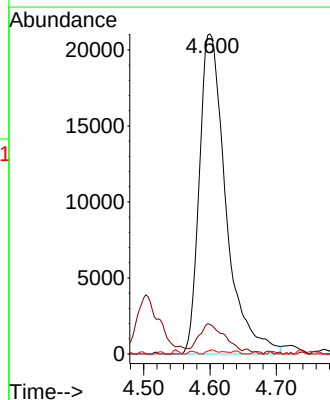
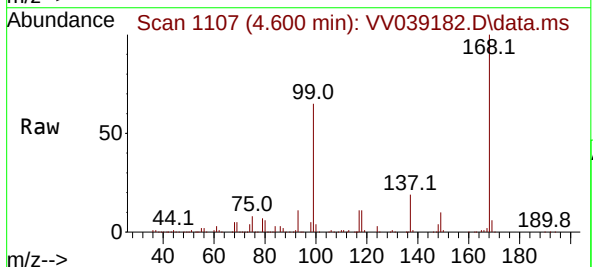
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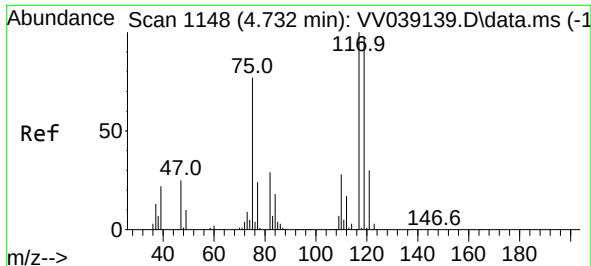
Tgt Ion:113 Resp: 418030
Ion Ratio Lower Upper
113 100
111 103.8 82.4 123.6
192 17.1 13.8 20.8



#36
1,1-Dichloropropene
Concen: 3.954 ug/l
RT: 4.600 min Scan# 1107
Delta R.T. -0.141 min
Lab File: VV039182.D
Acq: 25 Sep 2025 15:33

Tgt Ion: 75 Resp: 58516
Ion Ratio Lower Upper
75 100
110 7.9 18.1 54.1#
77 0.4 24.8 37.2#

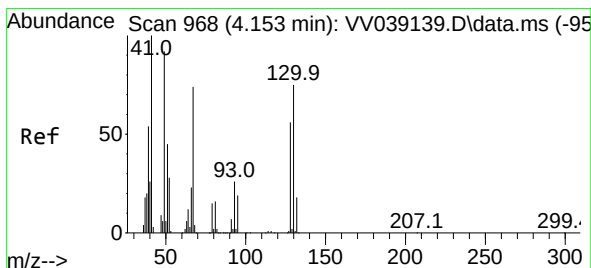
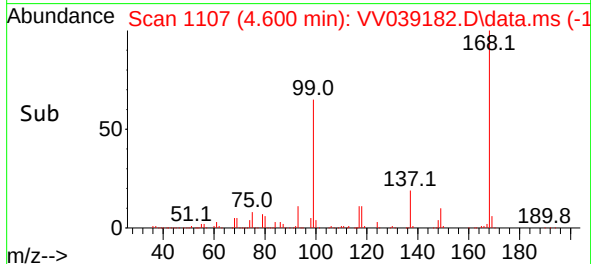
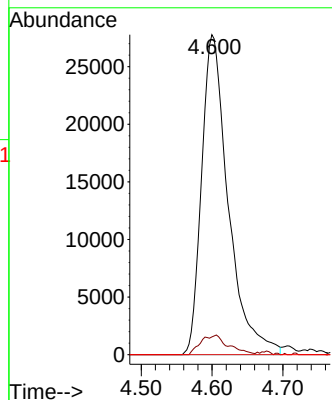
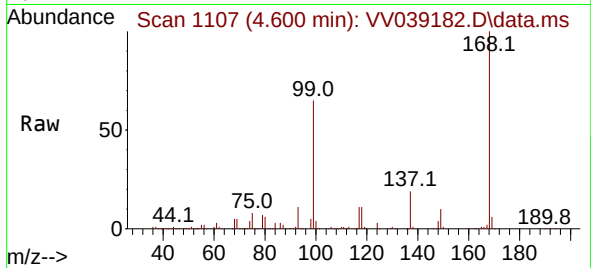




#38
Carbon Tetrachloride
Concen: 4.014 ug/l
RT: 4.600 min Scan# 1148
Delta R.T. -0.132 min
Lab File: VV039182.D
Acq: 25 Sep 2025 15:33

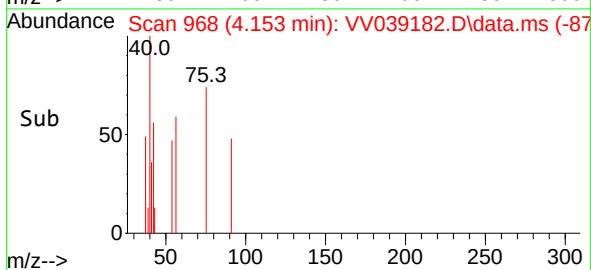
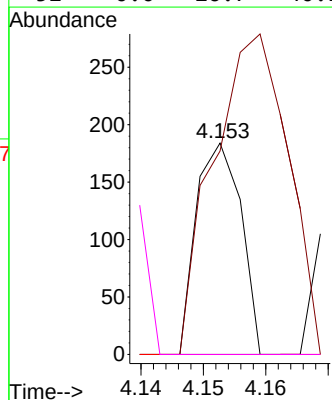
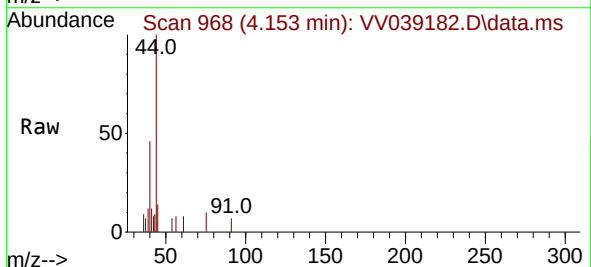
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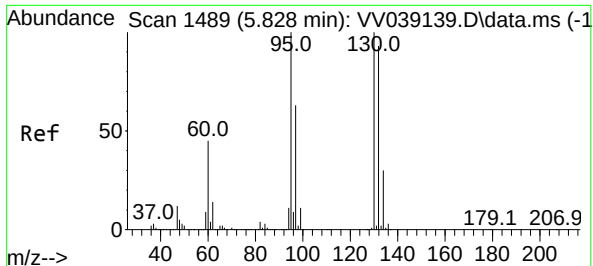
Tgt Ion:117 Resp: 72589
Ion Ratio Lower Upper
117 100
119 5.5 77.2 115.8#
121 0.0 24.2 36.2#



#41
Methacrylonitrile
Concen: 1.921 ug/l
RT: 4.153 min Scan# 968
Delta R.T. -0.000 min
Lab File: VV039182.D
Acq: 25 Sep 2025 15:33

Tgt Ion: 41 Resp: 91
Ion Ratio Lower Upper
41 100
39 254.9 42.2 63.2#
67 0.0 67.9 101.9#
52 0.0 26.7 40.1#

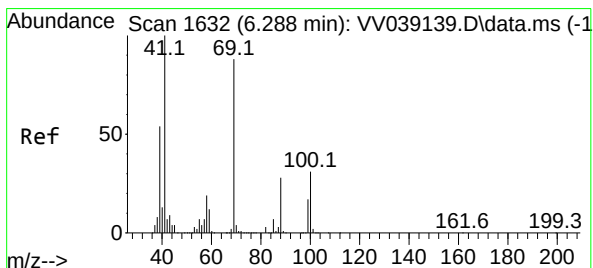
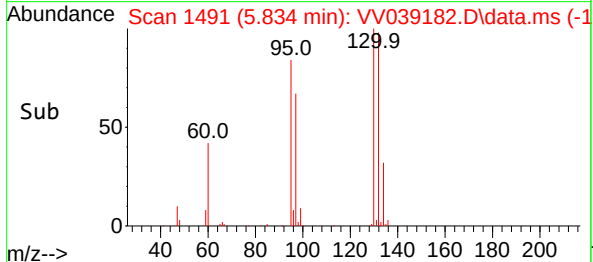
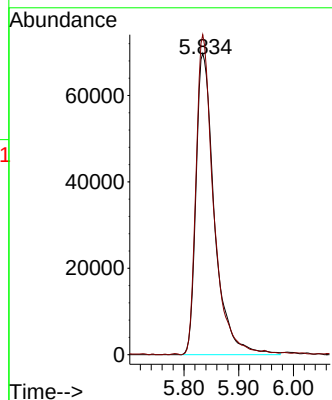
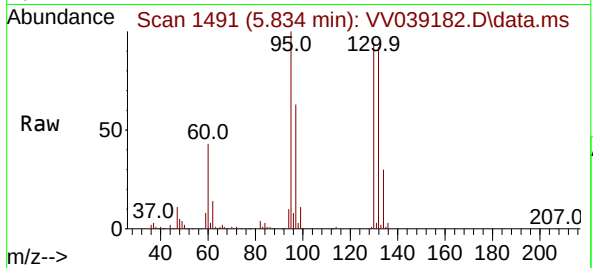




#44
Trichloroethene
Concen: 14.660 ug/l
RT: 5.834 min Scan# 1489
Delta R.T. 0.006 min
Lab File: VV039182.D
Acq: 25 Sep 2025 15:33

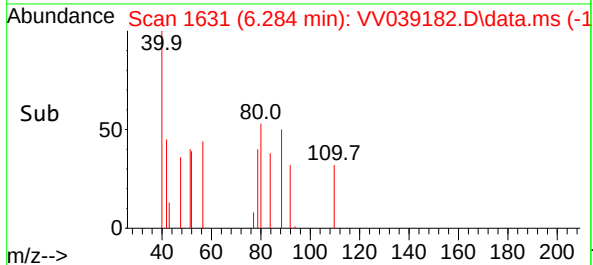
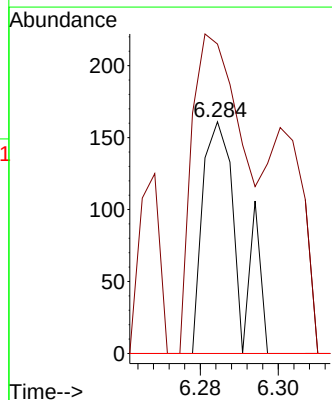
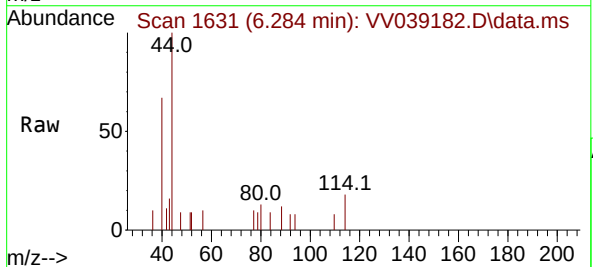
Instrument :
MSVOA_V
ClientSampleId :
FW7DDL

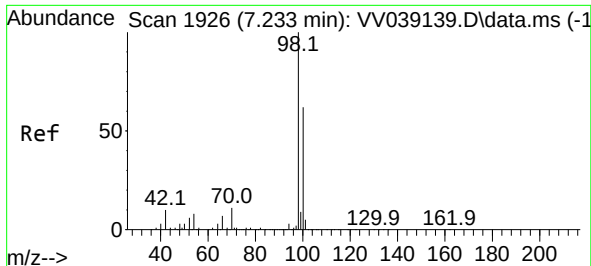
Tgt Ion:130 Resp: 163013
Ion Ratio Lower Upper
130 100
95 106.2 0.0 199.2



#49
1,4-Dioxane
Concen: 0.575 ug/l
RT: 6.284 min Scan# 1631
Delta R.T. -0.003 min
Lab File: VV039182.D
Acq: 25 Sep 2025 15:33

Tgt Ion: 88 Resp: 103
Ion Ratio Lower Upper
88 100
43 197.1 25.1 37.7#
58 0.0 53.6 80.4#

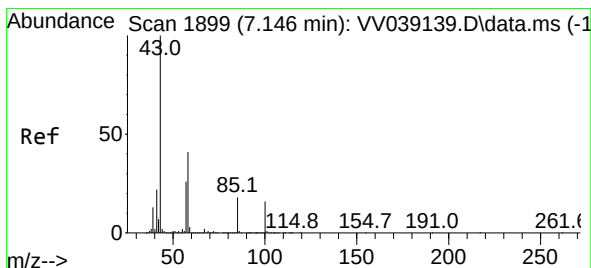
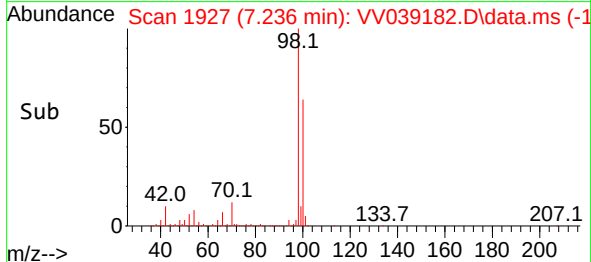
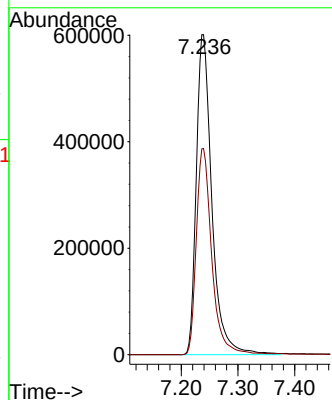
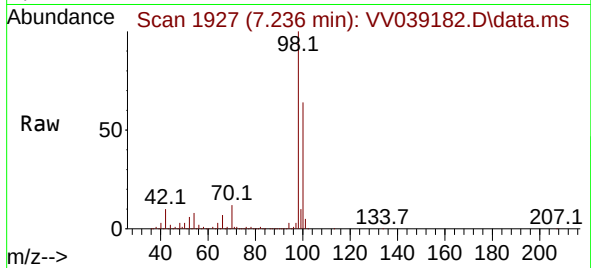




#50
Toluene-d8
Concen: 39.909 ug/l
RT: 7.236 min Scan# 1927
Delta R.T. 0.003 min
Lab File: VV039182.D
Acq: 25 Sep 2025 15:33

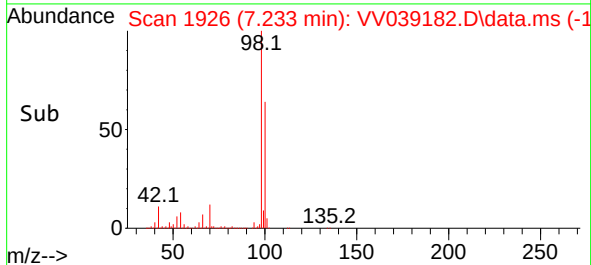
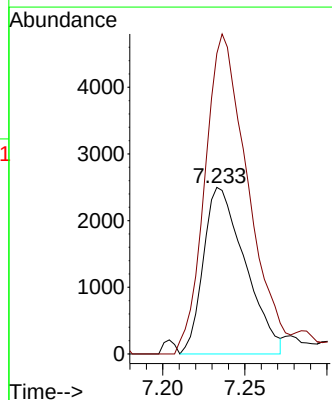
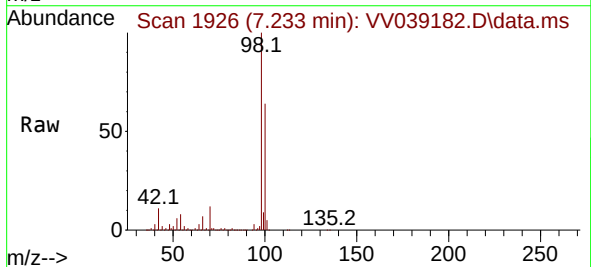
Instrument :
MSVOA_V
ClientSampleId :
FW7DDL

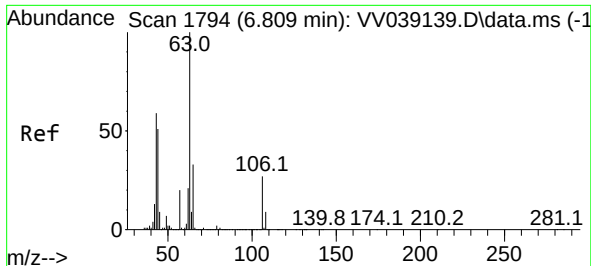
Tgt Ion: 98 Resp: 1147282
Ion Ratio Lower Upper
98 100
100 64.0 52.2 78.2



#51
4-Methyl-2-Pentanone
Concen: 0.274 ug/l
RT: 7.233 min Scan# 1926
Delta R.T. 0.087 min
Lab File: VV039182.D
Acq: 25 Sep 2025 15:33

Tgt Ion: 43 Resp: 4418
Ion Ratio Lower Upper
43 100
58 198.0 32.3 48.5#

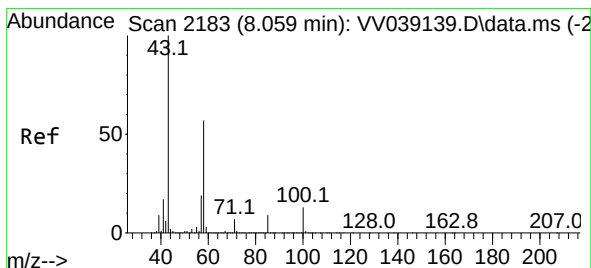
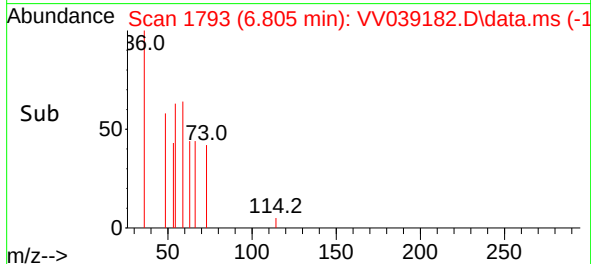
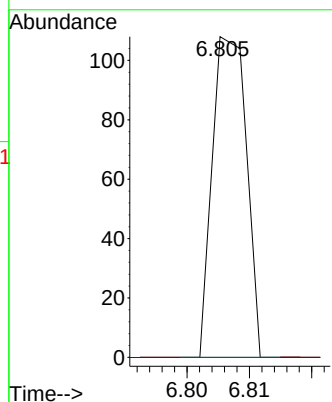
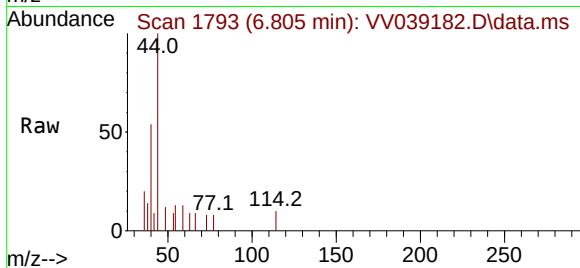




#58
2-Chloroethyl Vinyl ether
Concen: 9.627 ug/l
RT: 6.805 min Scan# 11
Delta R.T. -0.004 min
Lab File: VV039182.D
Acq: 25 Sep 2025 15:33

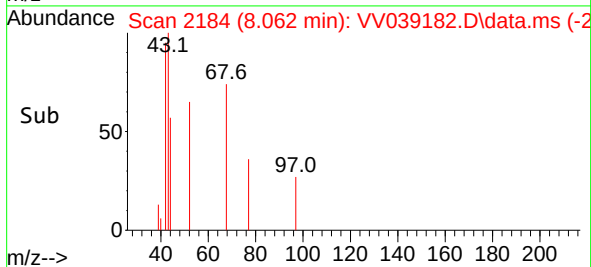
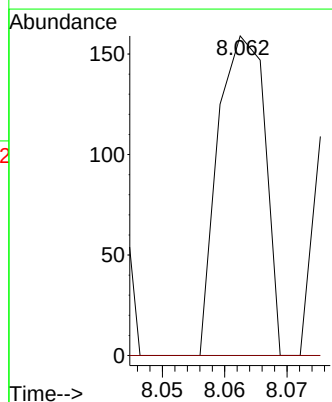
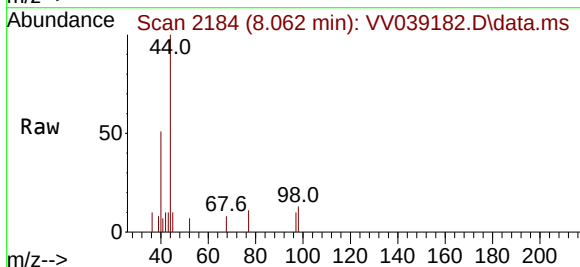
Instrument :
MSVOA_V
ClientSampleId :
FW7DDL

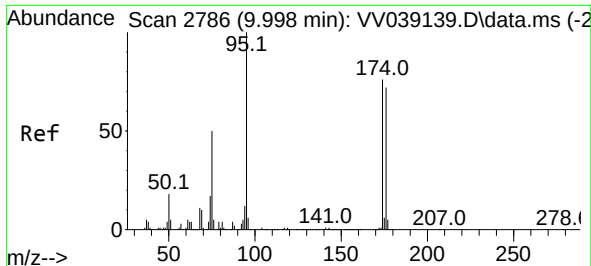
Tgt Ion: 63 Resp: 41
Ion Ratio Lower Upper
63 100
106 0.0 22.1 33.1#



#59
2-Hexanone
Concen: 2.332 ug/l
RT: 8.062 min Scan# 2184
Delta R.T. 0.003 min
Lab File: VV039182.D
Acq: 25 Sep 2025 15:33

Tgt Ion: 43 Resp: 83
Ion Ratio Lower Upper
43 100
58 0.0 28.3 85.0#

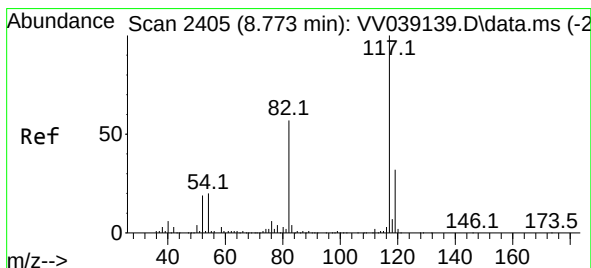
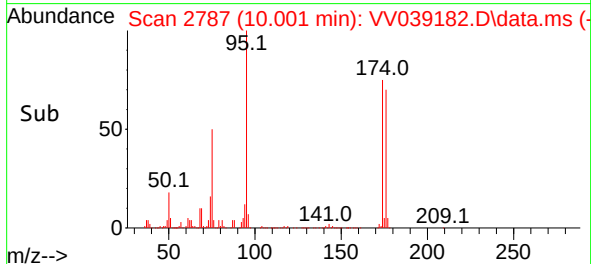
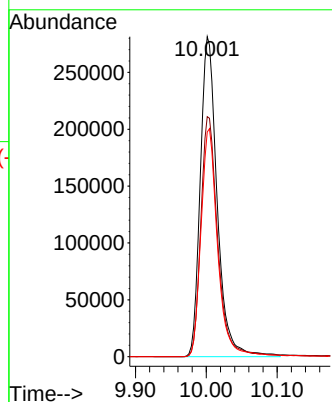
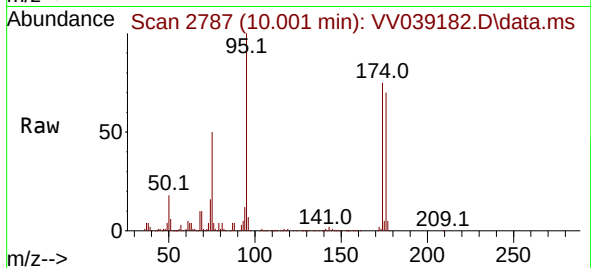




#62
4-Bromofluorobenzene
Concen: 39.327 ug/l
RT: 10.001 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV039182.D
Acq: 25 Sep 2025 15:33

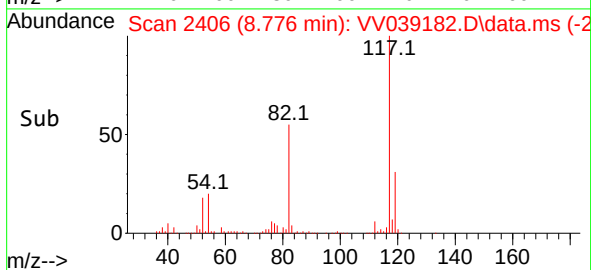
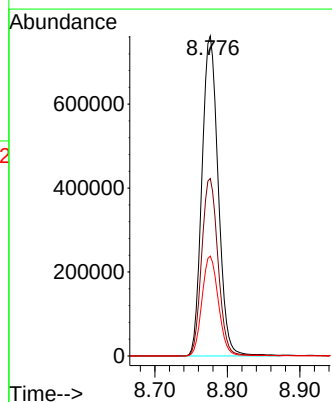
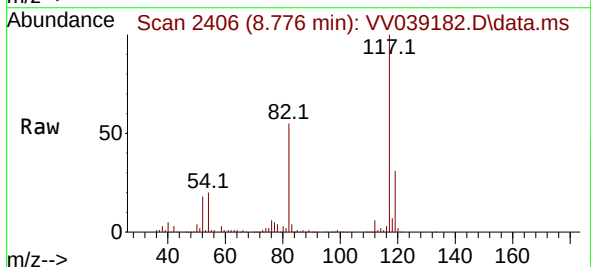
Instrument :
MSVOA_V
ClientSampleId :
FW7DDL

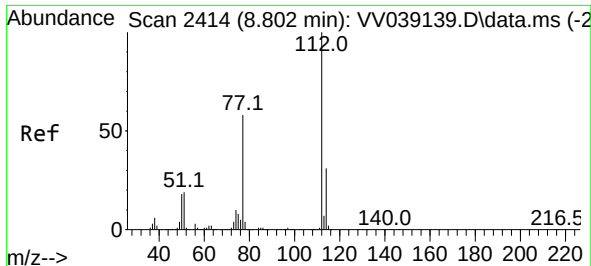
Tgt Ion: 95 Resp: 465413
Ion Ratio Lower Upper
95 100
174 75.6 0.0 150.4
176 70.5 0.0 144.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 2406
Delta R.T. 0.003 min
Lab File: VV039182.D
Acq: 25 Sep 2025 15:33

Tgt Ion: 117 Resp: 1189450
Ion Ratio Lower Upper
117 100
82 55.4 45.4 68.2
119 31.2 25.6 38.4





#65

Chlorobenzene

Concen: 81.844 ug/l

RT: 8.802 min Scan# 2414

Delta R.T. -0.000 min

Lab File: VV039182.D

Acq: 25 Sep 2025 15:33

Instrument :

MSVOA_V

ClientSampleId :

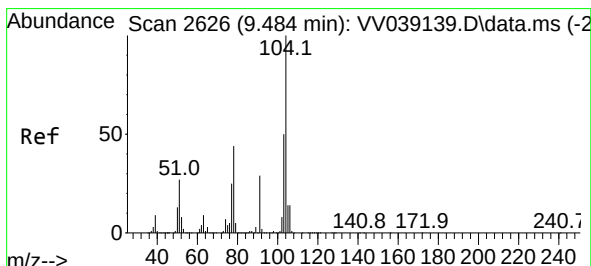
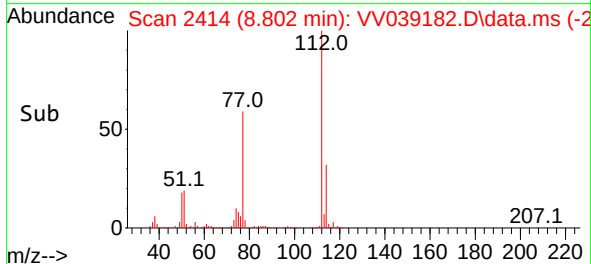
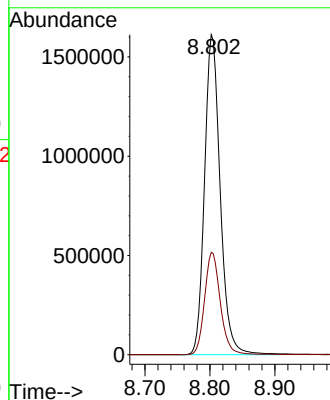
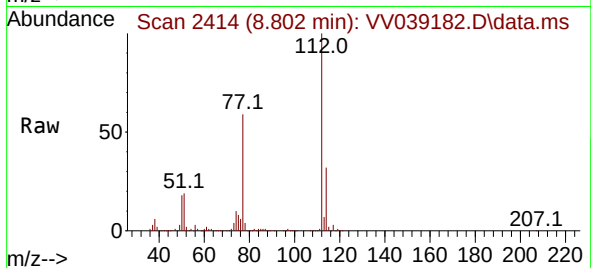
FW7DDL

Tgt Ion:112 Resp: 2711601

Ion Ratio Lower Upper

112 100

114 32.0 24.6 37.0



#70

Styrene

Concen: 1.563 ug/l

RT: 9.638 min Scan# 2674

Delta R.T. 0.154 min

Lab File: VV039182.D

Acq: 25 Sep 2025 15:33

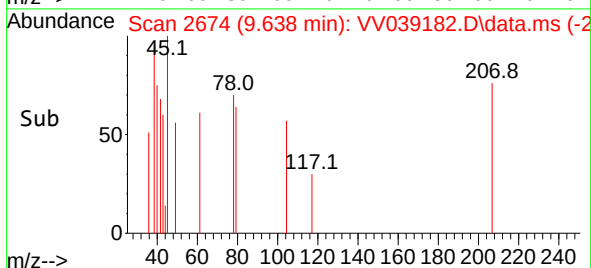
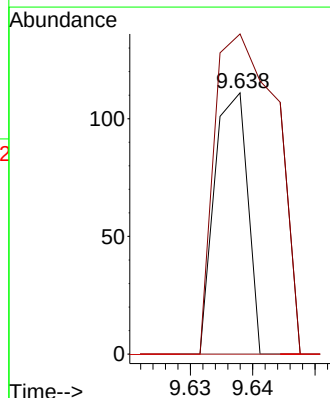
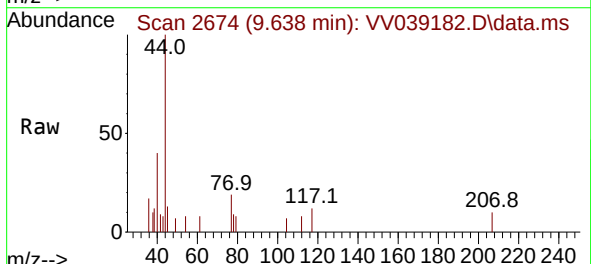
Tgt Ion:104 Resp: 41

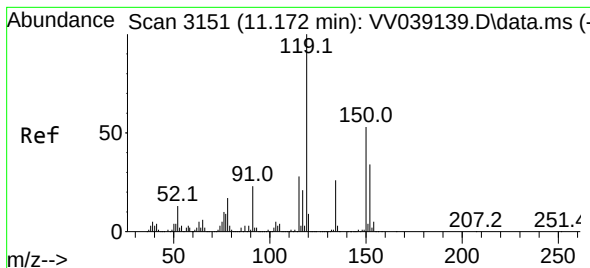
Ion Ratio Lower Upper

104 100

78 229.3 39.8 59.6#

103 0.0 43.4 65.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.175 min Scan# 3151

Delta R.T. 0.003 min

Lab File: VV039182.D

Acq: 25 Sep 2025 15:33

Instrument :

MSVOA_V

ClientSampleId :

FW7DDL

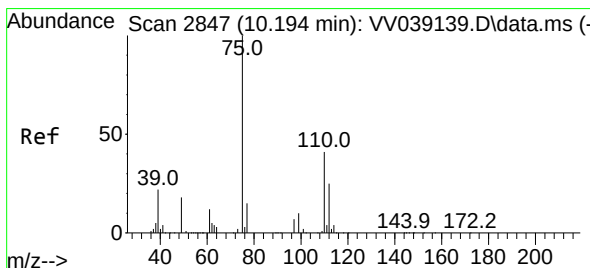
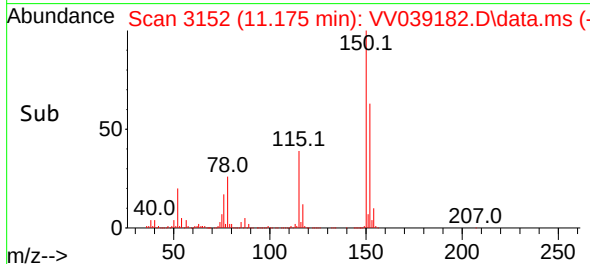
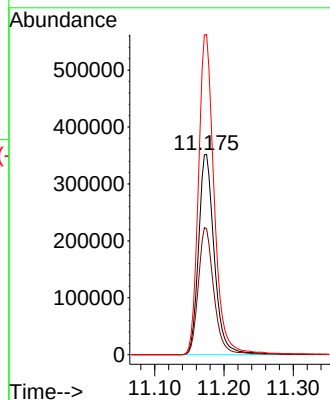
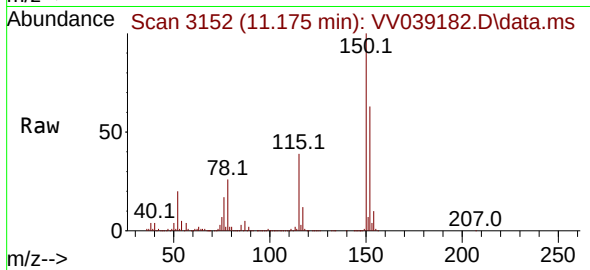
Tgt Ion:152 Resp: 556145

Ion Ratio Lower Upper

152 100

115 62.8 44.8 134.4

150 159.7 0.0 353.8



#76

1,2,3-Trichloropropane

Concen: 18.289 ug/l

RT: 10.001 min Scan# 2787

Delta R.T. -0.193 min

Lab File: VV039182.D

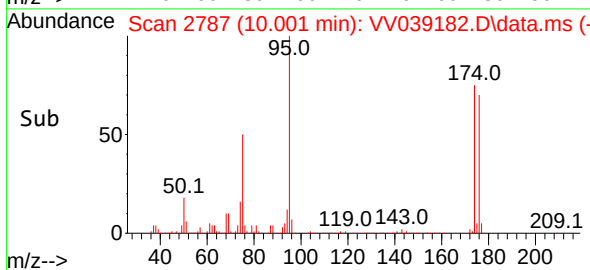
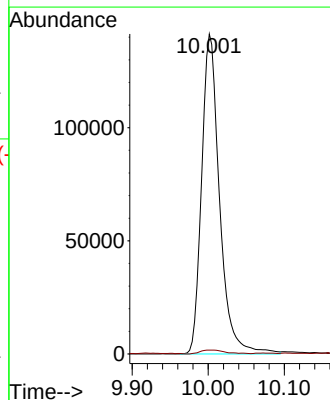
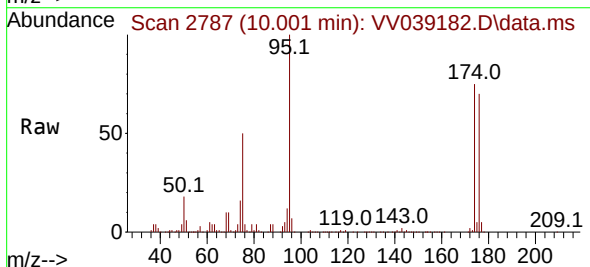
Acq: 25 Sep 2025 15:33

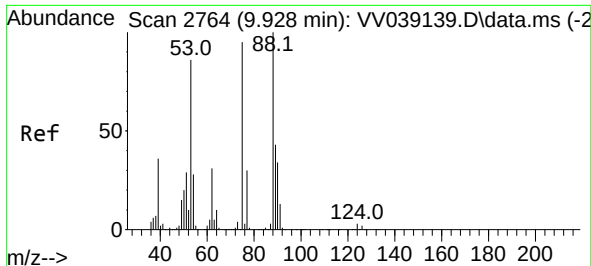
Tgt Ion: 75 Resp: 231583

Ion Ratio Lower Upper

75 100

77 1.8 11.3 33.8#

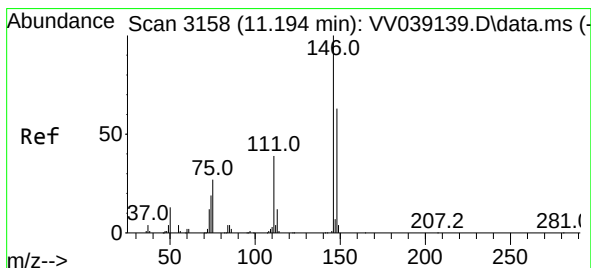
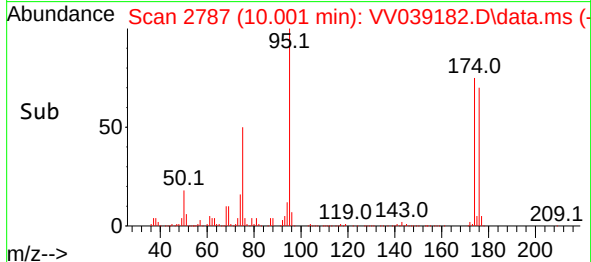
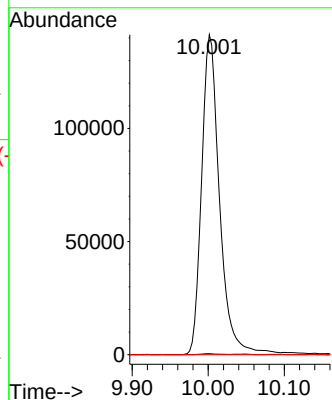
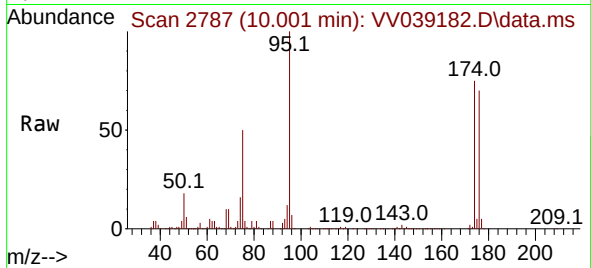




#81
trans-1,4-Dichloro-2-butene
Concen: 43.906 ug/l
RT: 10.001 min Scan# 21
Delta R.T. 0.074 min
Lab File: VV039182.D
Acq: 25 Sep 2025 15:33

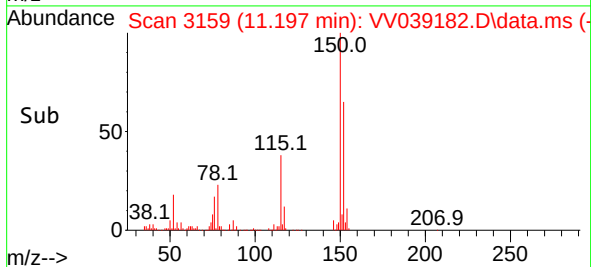
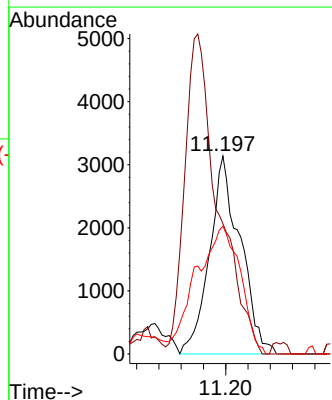
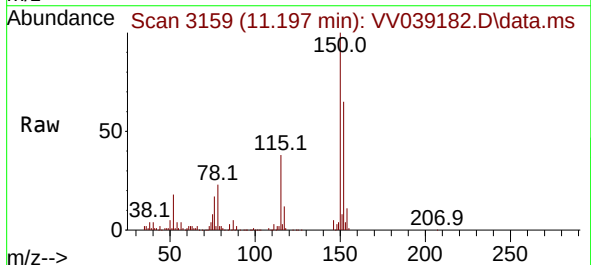
Instrument :
MSVOA_V
ClientSampleId :
FW7DDL

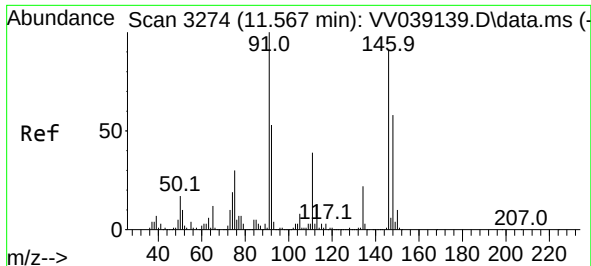
Tgt Ion: 75 Resp: 231583
Ion Ratio Lower Upper
75 100
53 0.3 72.5 108.7#
89 0.0 37.2 55.8#



#88
1,4-Dichlorobenzene
Concen: 0.258 ug/l
RT: 11.197 min Scan# 3159
Delta R.T. 0.003 min
Lab File: VV039182.D
Acq: 25 Sep 2025 15:33

Tgt Ion: 146 Resp: 6000
Ion Ratio Lower Upper
146 100
111 0.0 20.3 60.8#
148 92.7 31.4 94.2

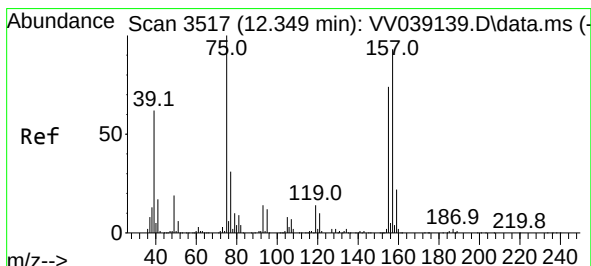
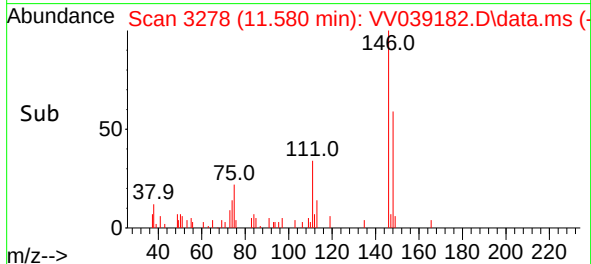
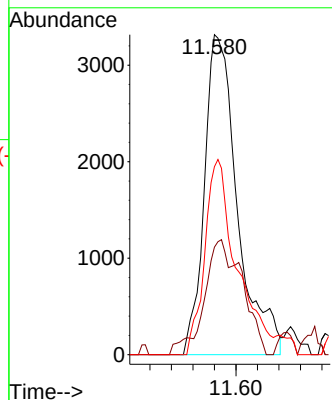
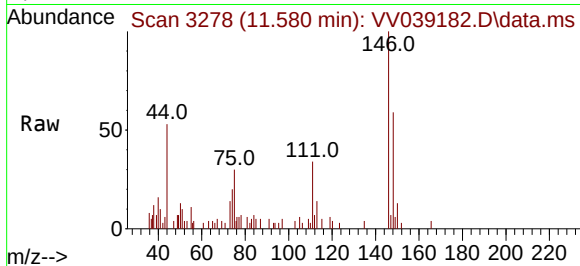




#91
1,2-Dichlorobenzene
Concen: 0.359 ug/l
RT: 11.580 min Scan# 311
Delta R.T. 0.013 min
Lab File: VV039182.D
Acq: 25 Sep 2025 15:33

Instrument :
MSVOA_V
ClientSampleId :
FW7DDL

Tgt Ion:146 Resp: 7095
Ion Ratio Lower Upper
146 100
111 28.0 21.5 64.5
148 58.7 31.9 95.7



#92
1,2-Dibromo-3-Chloropropane
Concen: Below Cal
RT: 12.355 min Scan# 3519
Delta R.T. 0.006 min
Lab File: VV039182.D
Acq: 25 Sep 2025 15:33

Tgt Ion: 75 Resp: 101
Ion Ratio Lower Upper
75 100
155 0.0 38.6 115.8#
157 0.0 49.5 148.3#

