

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060625\
 Data File : VX046563.D
 Acq On : 07 Jun 2025 07:23
 Operator : JC/MD
 Sample : Q2241-08
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 52 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TP-S

Quant Time: Jun 07 07:41:55 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 06 16:56:12 2025
 Response via : Initial Calibration

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

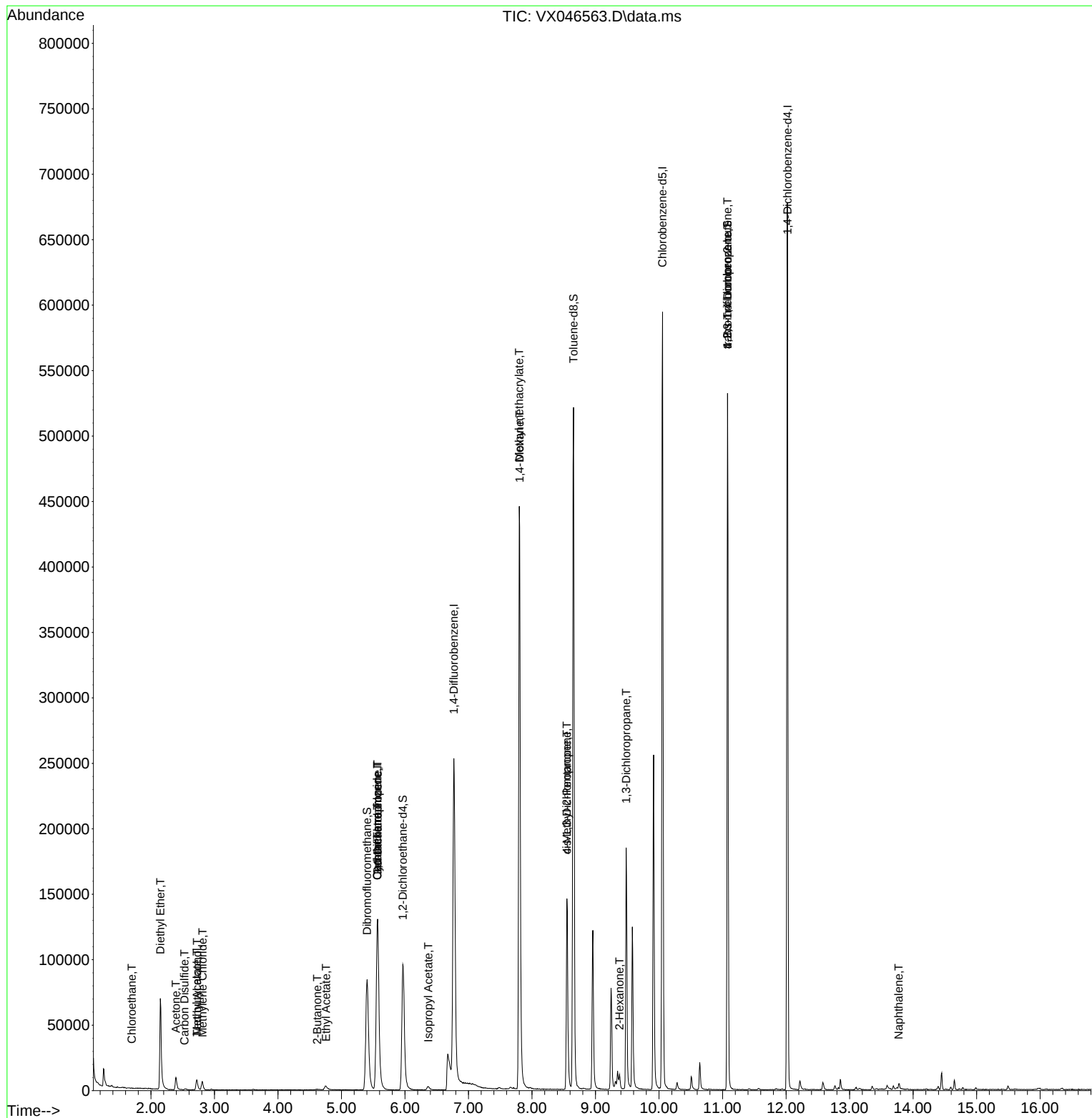
Internal Standards						
1) Pentafluorobenzene	5.568	168	121211	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	238596	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	248959	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	130205	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	105011	48.696	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	97.400%
35) Dibromofluoromethane	5.403	113	78773	44.894	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	89.780%
50) Toluene-d8	8.653	98	300048	51.868	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	103.740%
62) 4-Bromofluorobenzene	11.079	95	138948	58.054	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	116.100%
Target Compounds						
					Qvalue	
6) Chloroethane	1.697	64	314	0.317	ug/l #	44
8) Diethyl Ether	2.148	74	26915	30.153	ug/l	91
11) Tert butyl alcohol	2.727	59	886	3.703	ug/l #	72
16) Acetone	2.392	43	11895	18.383	ug/l	93
17) Carbon Disulfide	2.526	76	173	0.259	ug/l #	76
18) Methyl Acetate	2.721	43	11461	4.462	ug/l	96
20) Methylene Chloride	2.812	84	2975	1.720	ug/l #	75
25) 2-Butanone	4.617	43	1234	1.028	ug/l #	83
31) Cyclohexane	5.562	56	3082	1.229	ug/l #	22
36) 1,1-Dichloropropene	5.568	75	11509	4.592	ug/l #	51
37) Ethyl Acetate	4.757	43	5422	2.217	ug/l #	97
38) Carbon Tetrachloride	5.562	117	13531	4.820	ug/l #	18
43) Isopropyl Acetate	6.367	43	4565	1.070	ug/l	93
48) Methyl methacrylate	7.799	41	42498	19.369	ug/l #	49
49) 1,4-Dioxane	7.805	88	35	1.193	ug/l #	1
51) 4-Methyl-2-Pentanone	8.549	43	55807	20.593	ug/l #	51
54) cis-1,3-Dichloropropene	8.549	75	23081	8.219	ug/l #	60
57) 1,3-Dichloropropane	9.482	76	1570	0.511	ug/l #	42
59) 2-Hexanone	9.378	43	7117	3.662	ug/l #	28
76) 1,2,3-Trichloropropane	11.079	75	76818	27.854	ug/l #	36
81) trans-1,4-Dichloro-2-b...	11.079	75	76818	80.347	ug/l #	1
95) Naphthalene	13.774	128	3714	0.386	ug/l #	94

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

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Quant Time: Jun 07 07:41:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 06 16:56:12 2025
Response via : Initial Calibration

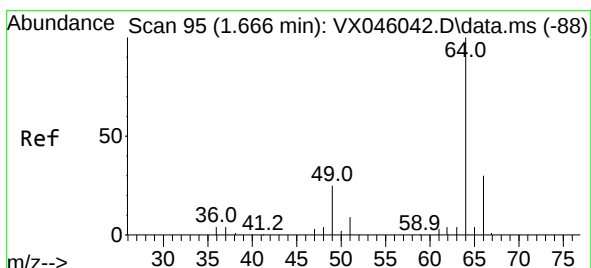
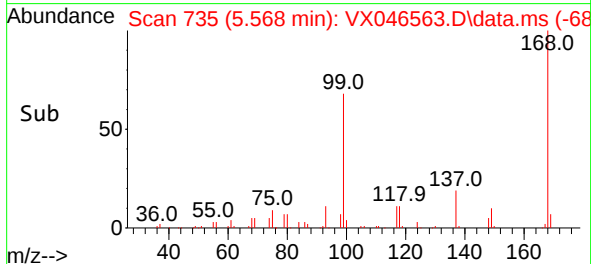
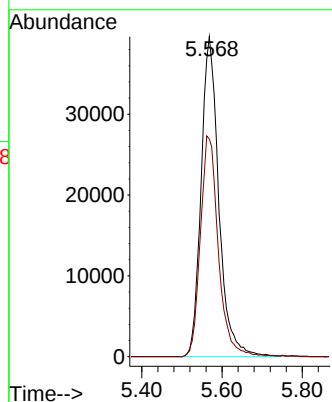
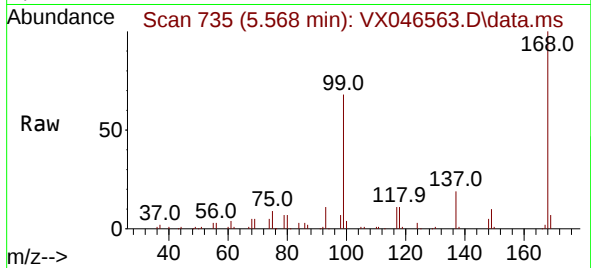




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.568 min Scan# 71
Delta R.T. 0.000 min
Lab File: VX046563.D
Acq: 07 Jun 2025 07:23

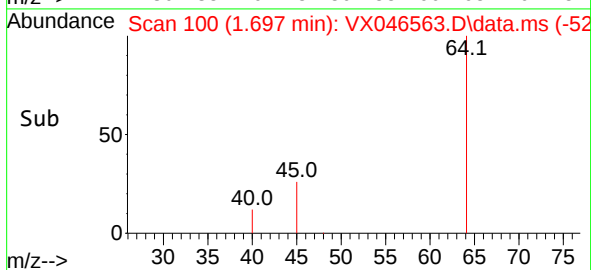
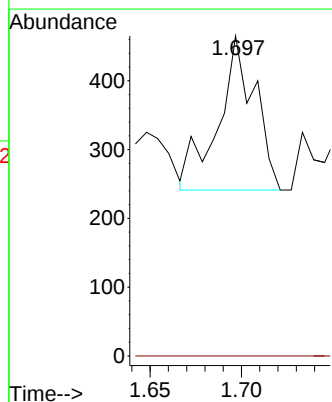
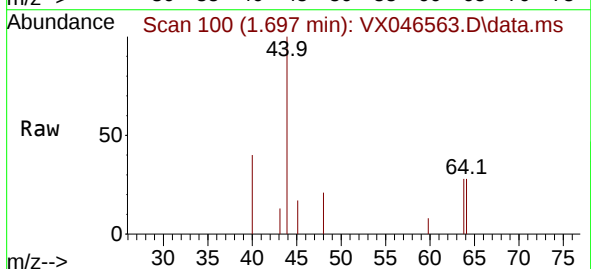
Instrument :
MSVOA_X
ClientSampleId :
TP-S

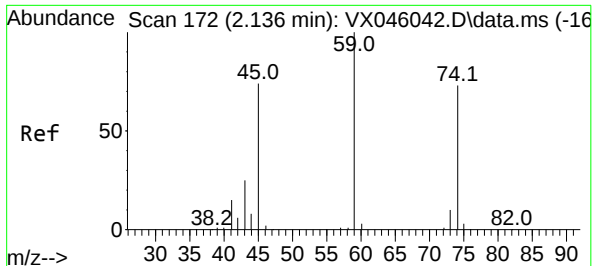
Tgt Ion:168 Resp: 121211
Ion Ratio Lower Upper
168 100
99 68.0 54.9 82.3



#6
Chloroethane
Concen: 0.317 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.006 min
Lab File: VX046563.D
Acq: 07 Jun 2025 07:23

Tgt Ion: 64 Resp: 314
Ion Ratio Lower Upper
64 100
66 0.0 24.3 36.5#

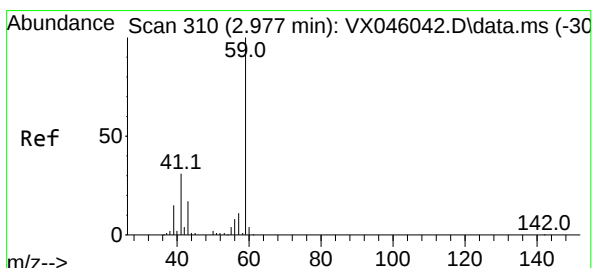
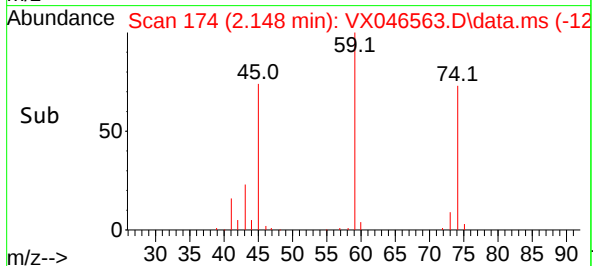
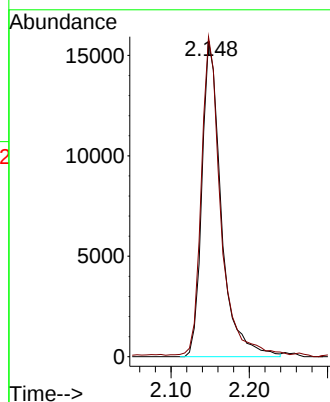
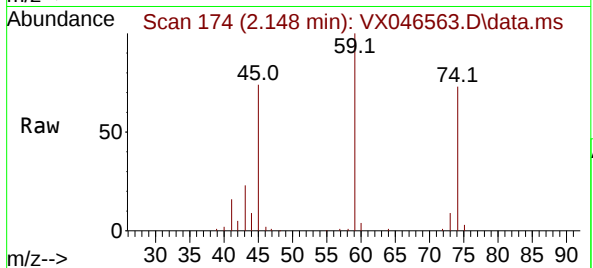




#8
Diethyl Ether
Concen: 30.153 ug/l
RT: 2.148 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX046563.D
Acq: 07 Jun 2025 07:23

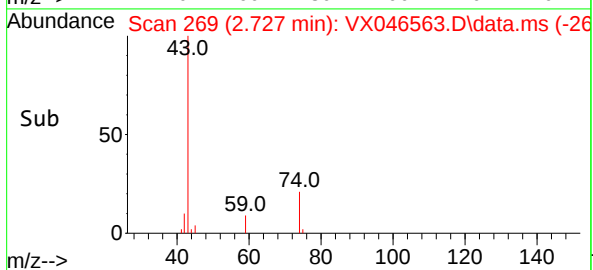
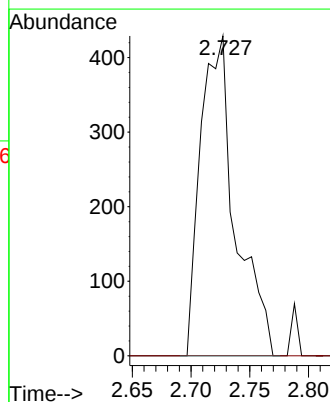
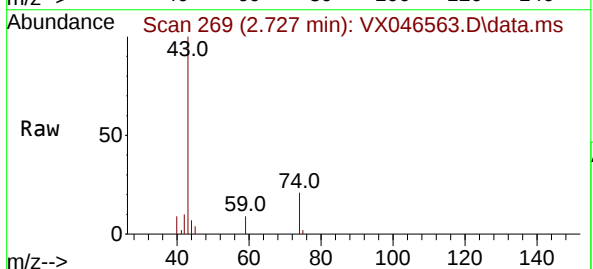
Instrument :
MSVOA_X
ClientSampleId :
TP-S

Tgt Ion: 74 Resp: 26915
Ion Ratio Lower Upper
74 100
45 100.0 54.9 164.8



#11
Tert butyl alcohol
Concen: 3.703 ug/l
RT: 2.727 min Scan# 269
Delta R.T. -0.244 min
Lab File: VX046563.D
Acq: 07 Jun 2025 07:23

Tgt Ion: 59 Resp: 886
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#

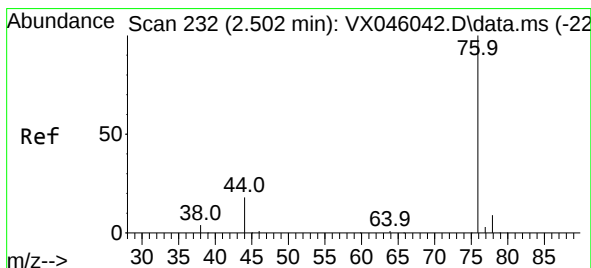
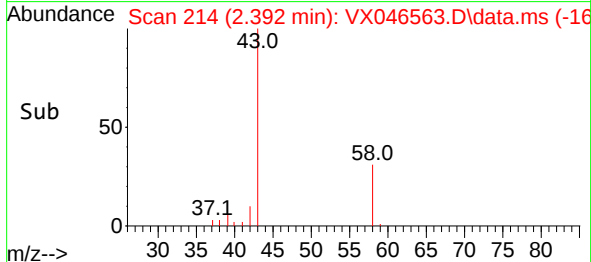
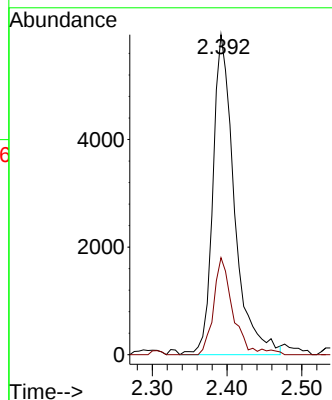
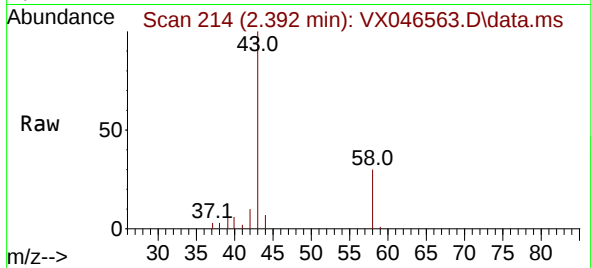




#16
Acetone
Concen: 18.383 ug/l
RT: 2.392 min Scan# 214
Delta R.T. -0.000 min
Lab File: VX046563.D
Acq: 07 Jun 2025 07:23

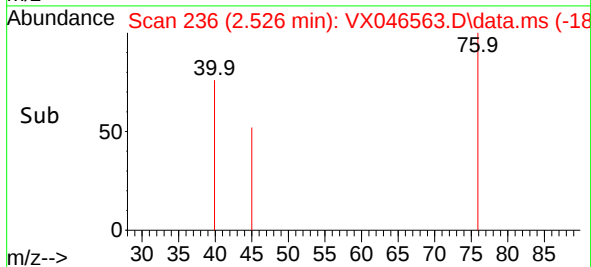
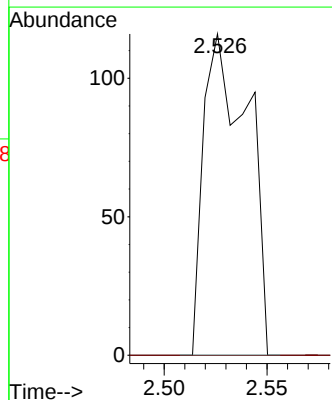
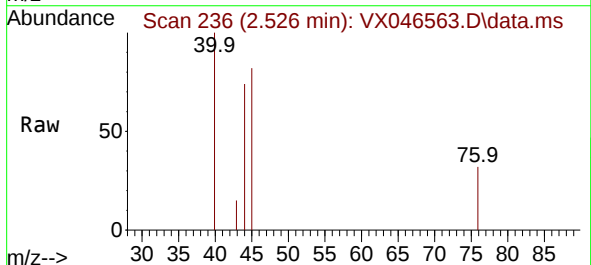
Instrument :
MSVOA_X
ClientSampleId :
TP-S

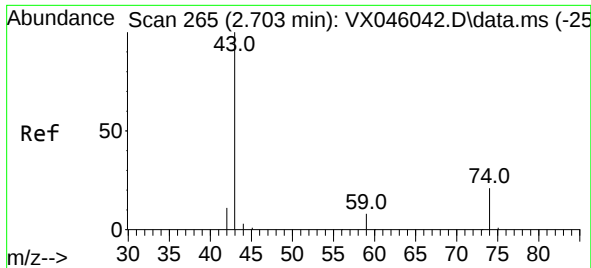
Tgt Ion: 43 Resp: 11895
Ion Ratio Lower Upper
43 100
58 30.3 21.2 31.8



#17
Carbon Disulfide
Concen: 0.259 ug/l
RT: 2.526 min Scan# 236
Delta R.T. -0.006 min
Lab File: VX046563.D
Acq: 07 Jun 2025 07:23

Tgt Ion: 76 Resp: 173
Ion Ratio Lower Upper
76 100
78 0.0 7.0 10.4#

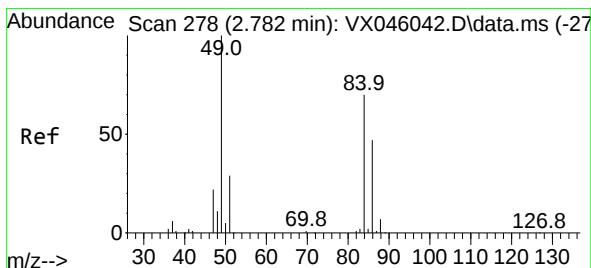
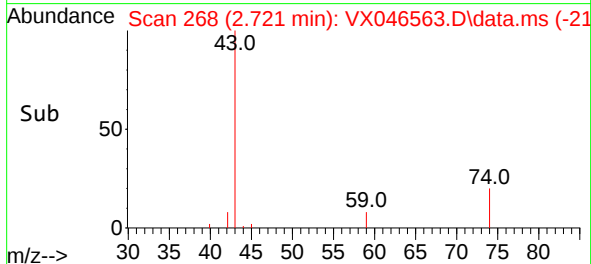
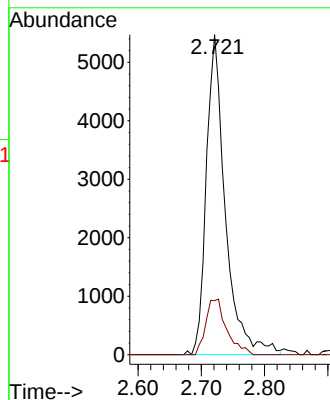
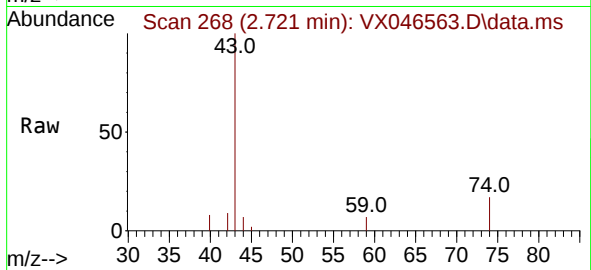




#18
Methyl Acetate
Concen: 4.462 ug/l
RT: 2.721 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX046563.D
Acq: 07 Jun 2025 07:23

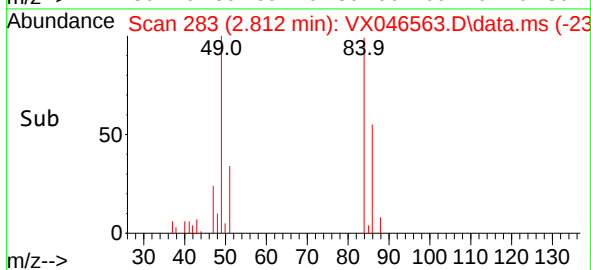
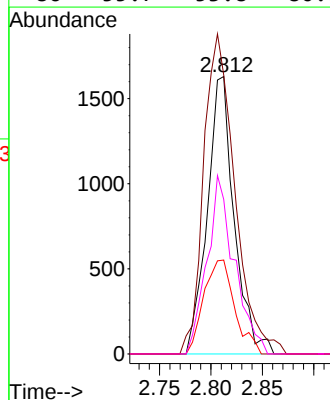
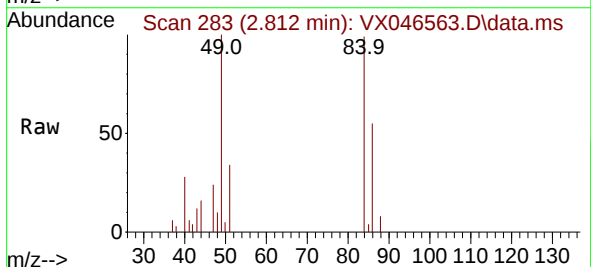
Instrument :
MSVOA_X
ClientSampleId :
TP-S

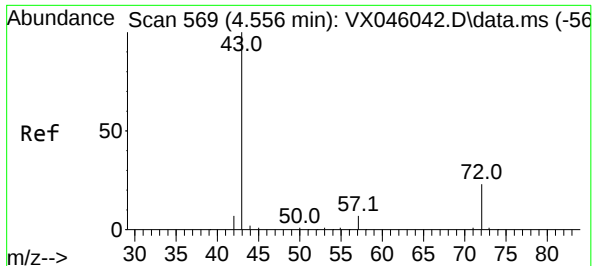
Tgt Ion: 43 Resp: 11461
Ion Ratio Lower Upper
43 100
74 19.0 16.7 25.1



#20
Methylene Chloride
Concen: 1.720 ug/l
RT: 2.812 min Scan# 283
Delta R.T. 0.006 min
Lab File: VX046563.D
Acq: 07 Jun 2025 07:23

Tgt Ion: 84 Resp: 2975
Ion Ratio Lower Upper
84 100
49 100.6 113.9 170.9#
51 33.9 33.5 50.3
86 55.7 53.8 80.8





#25

2-Butanone

Concen: 1.028 ug/l

RT: 4.617 min Scan# 51

Delta R.T. 0.043 min

Lab File: VX046563.D

Acq: 07 Jun 2025 07:23

Instrument :

MSVOA_X

ClientSampleId :

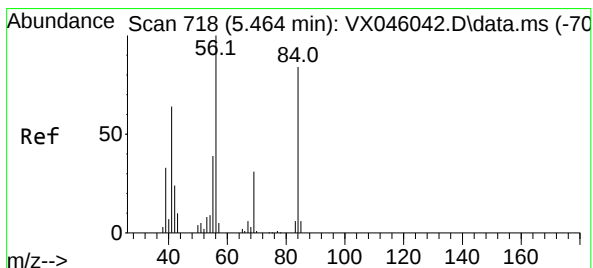
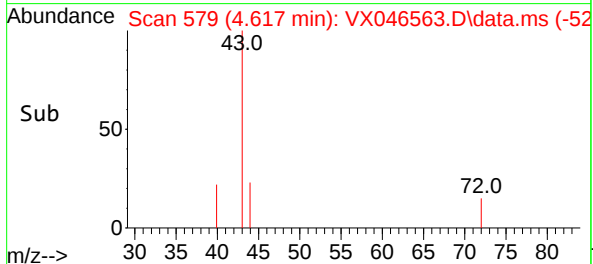
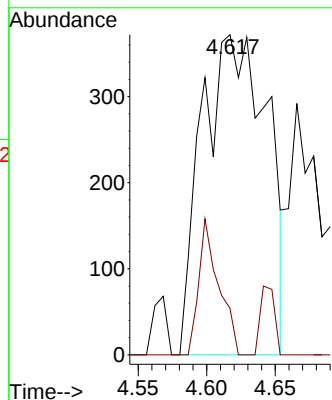
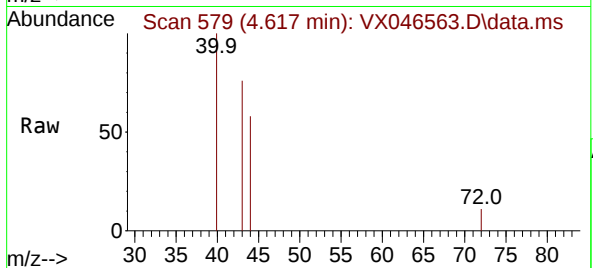
TP-S

Tgt Ion: 43 Resp: 1234

Ion Ratio Lower Upper

43 100

72 14.5 18.4 27.6#



#31

Cyclohexane

Concen: 1.229 ug/l

RT: 5.562 min Scan# 734

Delta R.T. 0.073 min

Lab File: VX046563.D

Acq: 07 Jun 2025 07:23

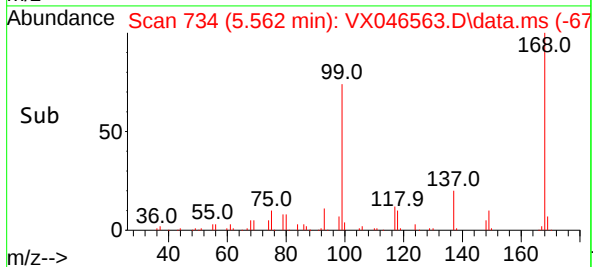
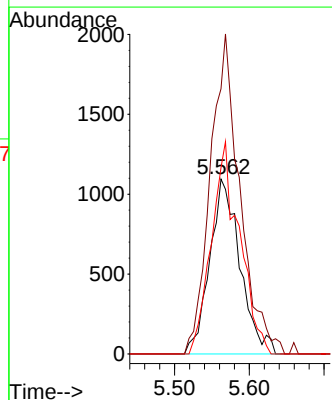
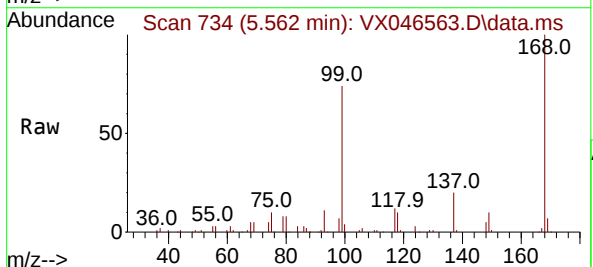
Tgt Ion: 56 Resp: 3082

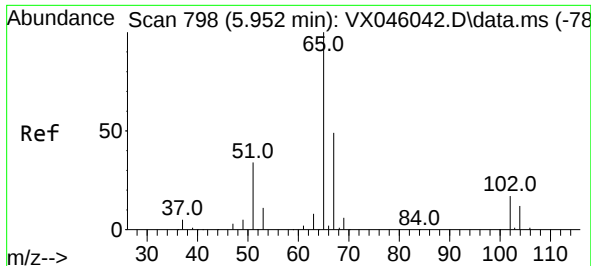
Ion Ratio Lower Upper

56 100

69 151.6 24.4 36.6#

84 106.5 66.9 100.3#





#33

1,2-Dichloroethane-d4

Concen: 48.696 ug/l

RT: 5.964 min Scan# 80

Delta R.T. -0.006 min

Lab File: VX046563.D

Acq: 07 Jun 2025 07:23

Instrument :

MSVOA_X

ClientSampleId :

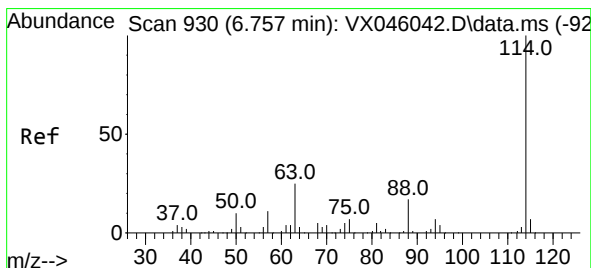
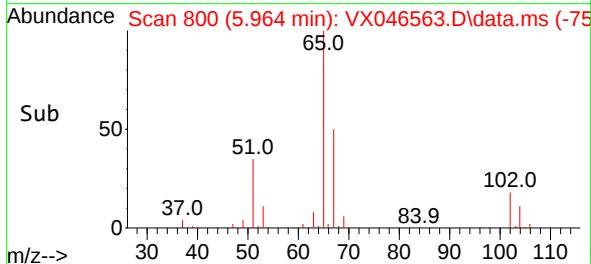
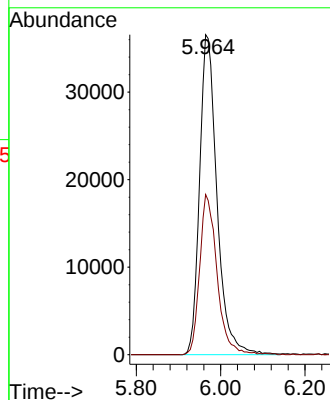
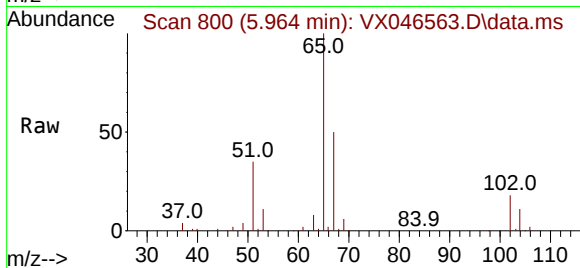
TP-S

Tgt Ion: 65 Resp: 105011

Ion Ratio Lower Upper

65 100

67 49.9 0.0 99.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 932

Delta R.T. -0.006 min

Lab File: VX046563.D

Acq: 07 Jun 2025 07:23

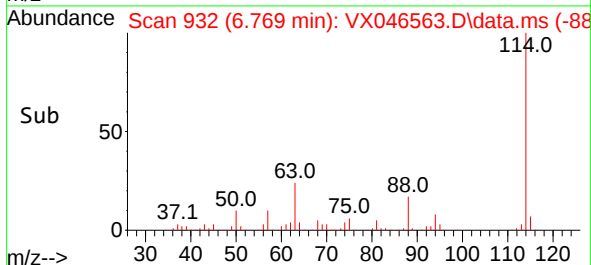
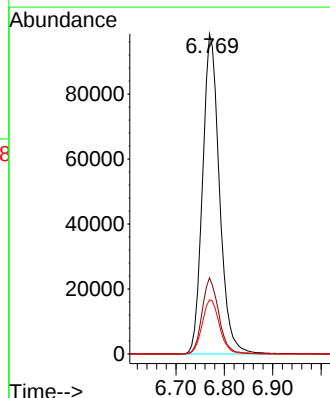
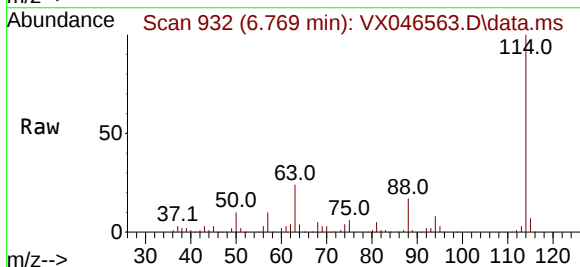
Tgt Ion: 114 Resp: 238596

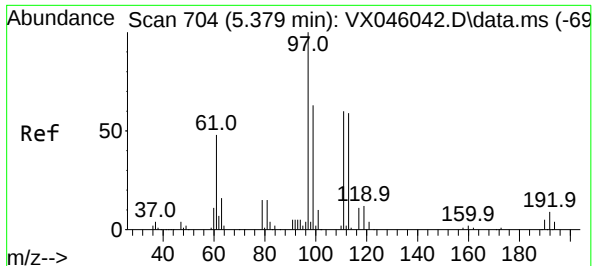
Ion Ratio Lower Upper

114 100

63 23.8 0.0 49.2

88 16.9 0.0 33.6





#35

Dibromofluoromethane

Concen: 44.894 ug/l

RT: 5.403 min Scan# 704

Delta R.T. 0.000 min

Lab File: VX046563.D

Acq: 07 Jun 2025 07:23

Instrument :

MSVOA_X

ClientSampleId :

TP-S

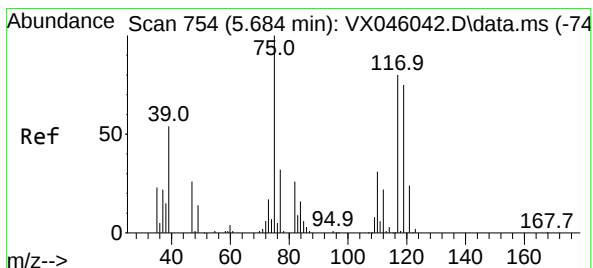
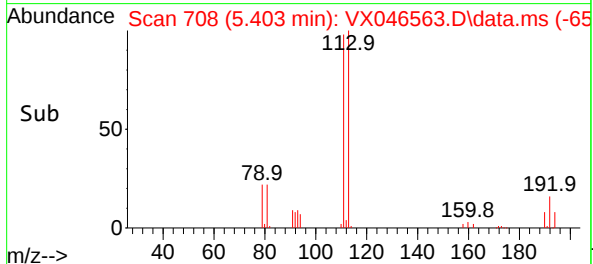
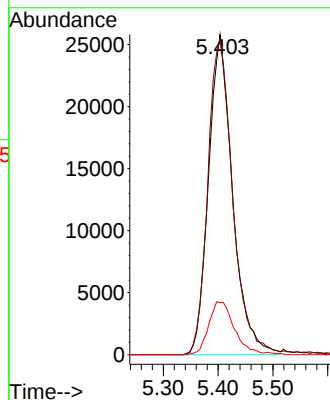
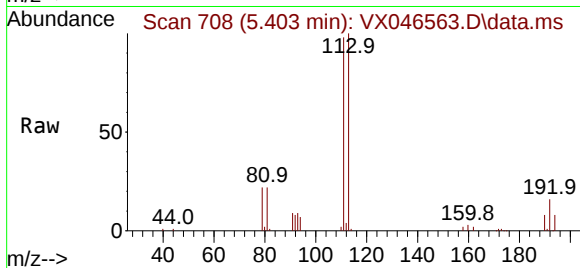
Tgt Ion:113 Resp: 78773

Ion Ratio Lower Upper

113 100

111 102.5 83.1 124.7

192 17.5 13.3 19.9



#36

1,1-Dichloropropene

Concen: 4.592 ug/l

RT: 5.568 min Scan# 735

Delta R.T. -0.146 min

Lab File: VX046563.D

Acq: 07 Jun 2025 07:23

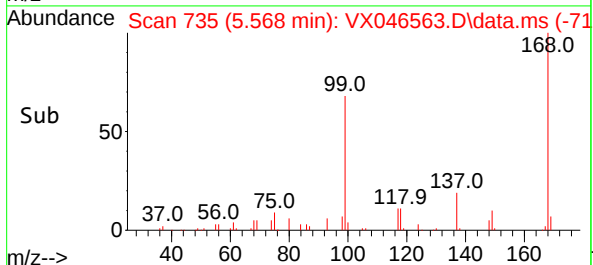
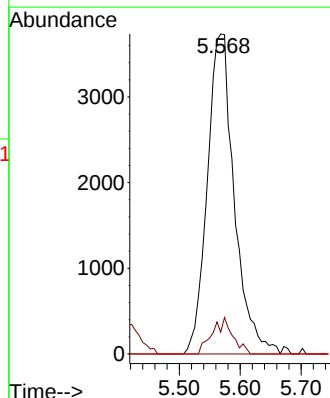
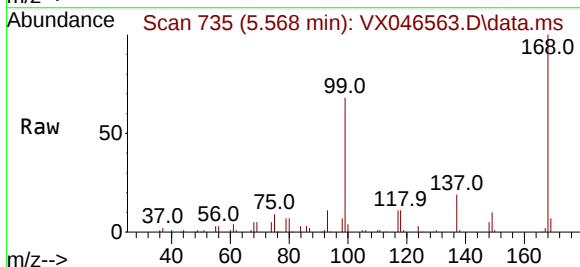
Tgt Ion: 75 Resp: 11509

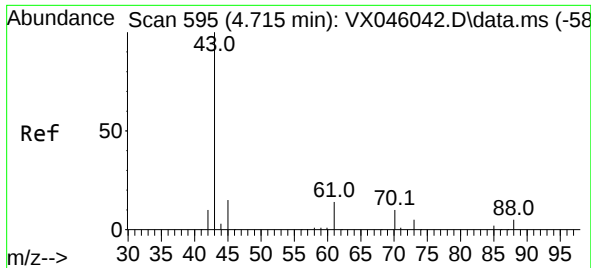
Ion Ratio Lower Upper

75 100

110 8.6 16.3 48.9#

77 0.0 24.3 36.5#

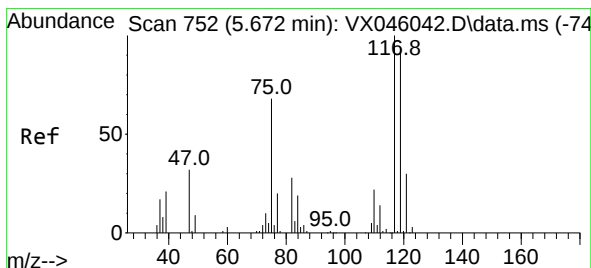
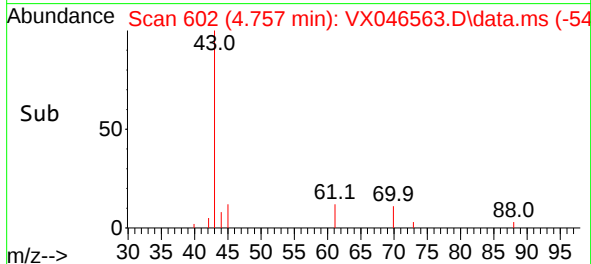
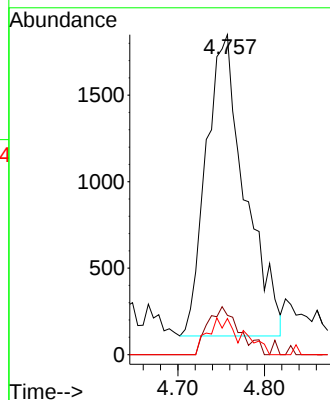
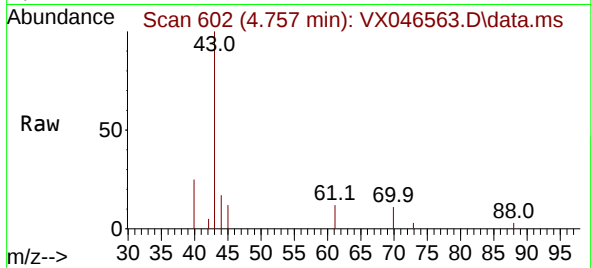




#37
Ethyl Acetate
Concen: 2.217 ug/l
RT: 4.757 min Scan# 602
Delta R.T. 0.024 min
Lab File: VX046563.D
Acq: 07 Jun 2025 07:23

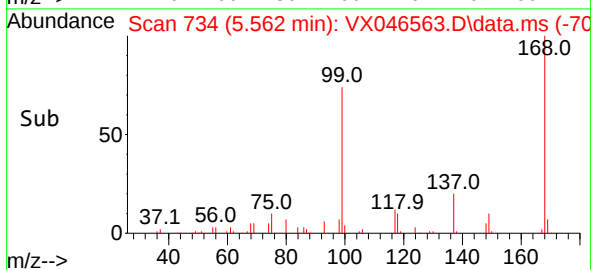
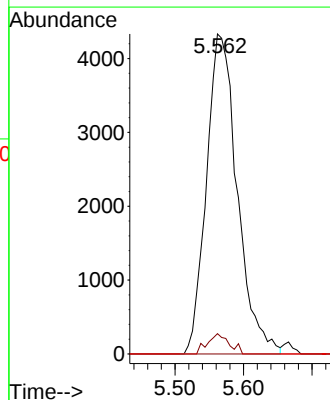
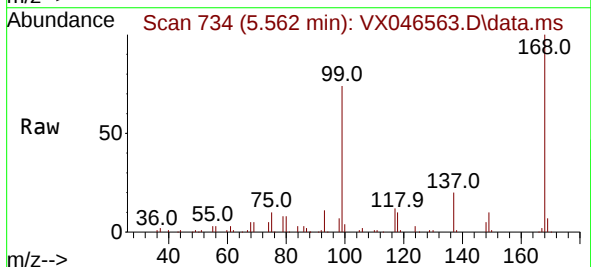
Instrument :
MSVOA_X
ClientSampleId :
TP-S

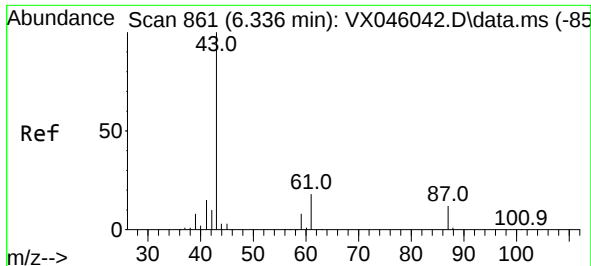
Tgt Ion: 43 Resp: 5422
Ion Ratio Lower Upper
43 100
61 12.9 10.3 15.5
70 7.7 7.9 11.9#



#38
Carbon Tetrachloride
Concen: 4.820 ug/l
RT: 5.562 min Scan# 734
Delta R.T. -0.134 min
Lab File: VX046563.D
Acq: 07 Jun 2025 07:23

Tgt Ion: 117 Resp: 13531
Ion Ratio Lower Upper
117 100
119 6.3 75.2 112.8#
121 0.0 24.2 36.4#

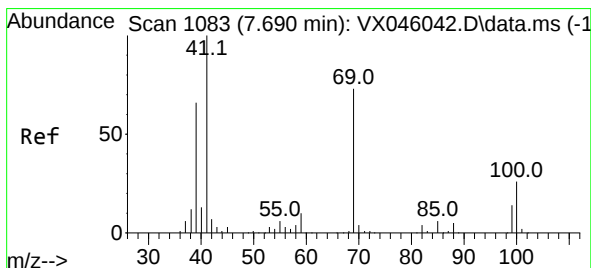
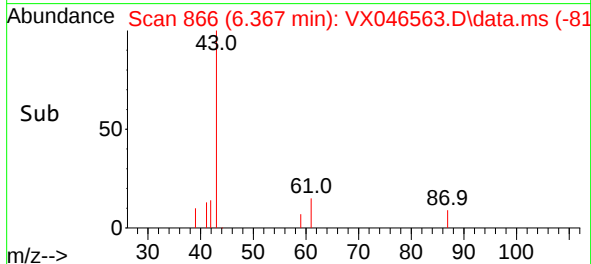
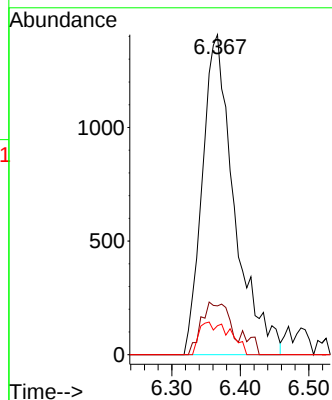
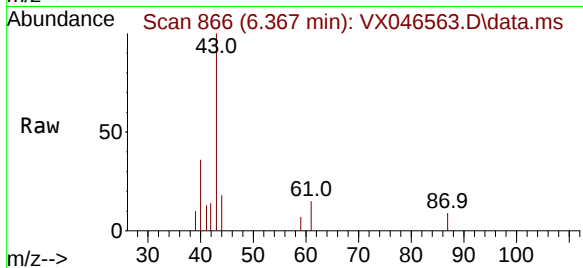




#43
Isopropyl Acetate
Concen: 1.070 ug/l
RT: 6.367 min Scan# 866
Delta R.T. 0.013 min
Lab File: VX046563.D
Acq: 07 Jun 2025 07:23

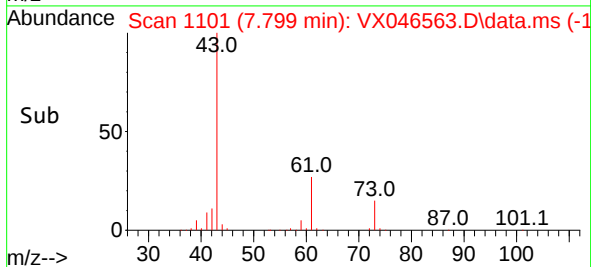
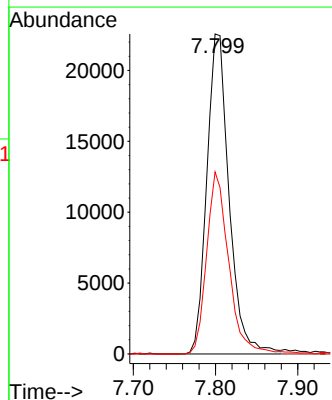
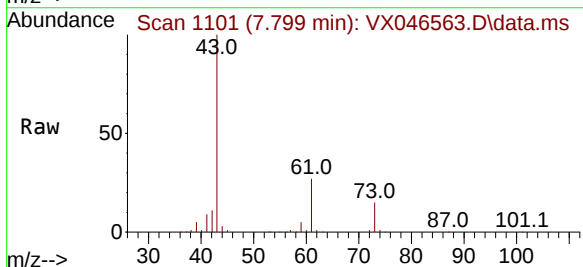
Instrument :
MSVOA_X
ClientSampleId :
TP-S

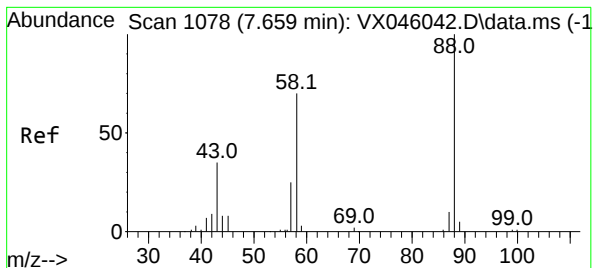
Tgt Ion: 43 Resp: 4565
Ion Ratio Lower Upper
43 100
61 14.5 14.3 21.5
87 9.9 9.5 14.3



#48
Methyl methacrylate
Concen: 19.369 ug/l
RT: 7.799 min Scan# 1101
Delta R.T. 0.097 min
Lab File: VX046563.D
Acq: 07 Jun 2025 07:23

Tgt Ion: 41 Resp: 42498
Ion Ratio Lower Upper
41 100
69 0.0 58.5 87.7#
39 56.7 51.7 77.5





#49

1,4-Dioxane

Concen: 1.193 ug/l

RT: 7.805 min Scan# 1102

Delta R.T. 0.134 min

Lab File: VX046563.D

Acq: 07 Jun 2025 07:23

Instrument :

MSVOA_X

ClientSampleId :

TP-S

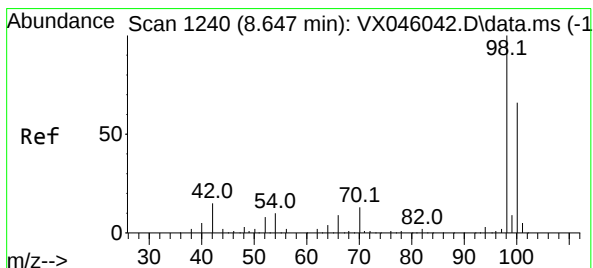
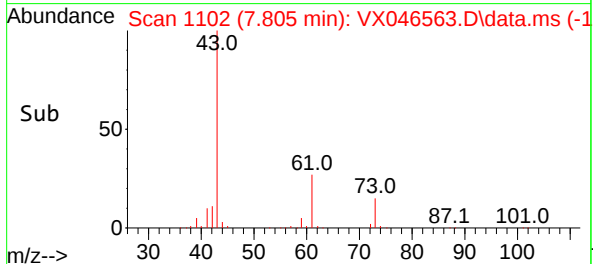
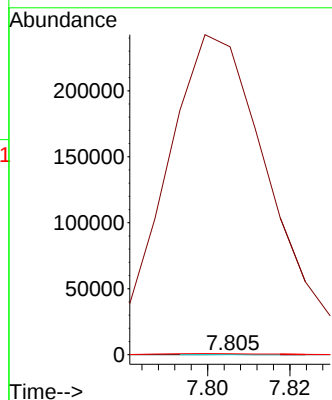
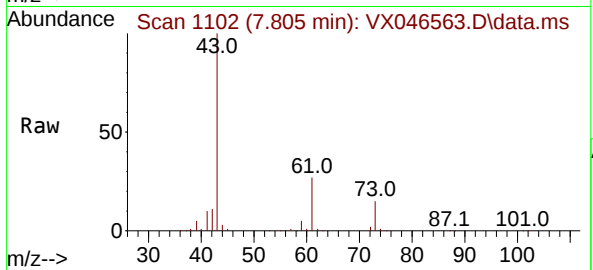
Tgt Ion: 88 Resp: 35

Ion Ratio Lower Upper

88 100

43 1286405.7 33.4 50.2#

58 4974.3 58.6 88.0#



#50

Toluene-d8

Concen: 51.868 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. -0.000 min

Lab File: VX046563.D

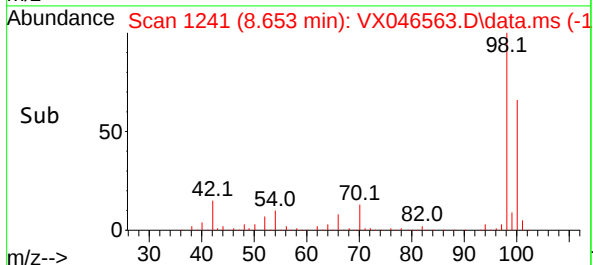
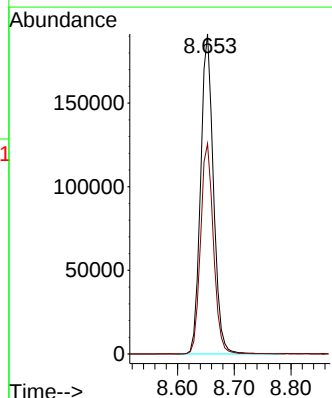
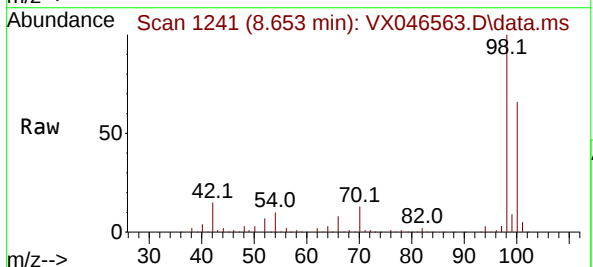
Acq: 07 Jun 2025 07:23

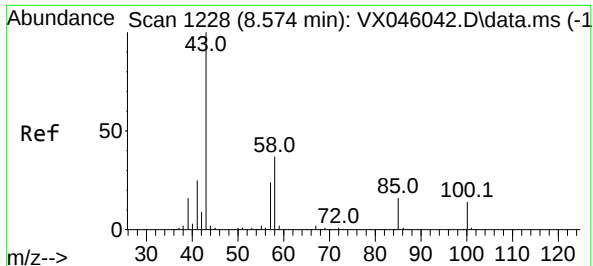
Tgt Ion: 98 Resp: 300048

Ion Ratio Lower Upper

98 100

100 66.1 53.5 80.3

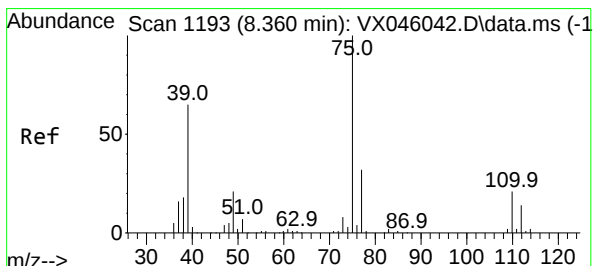
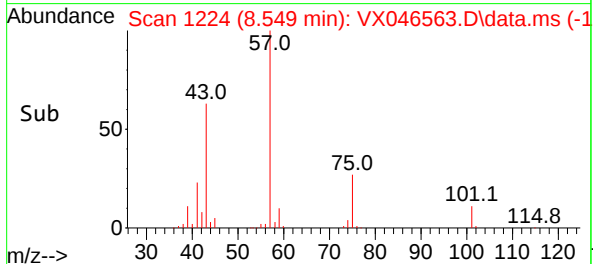
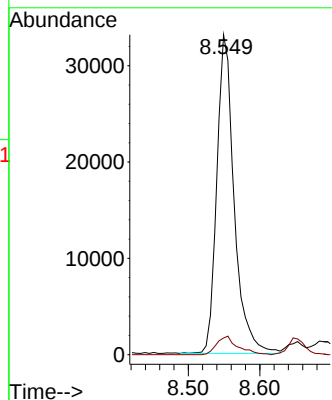
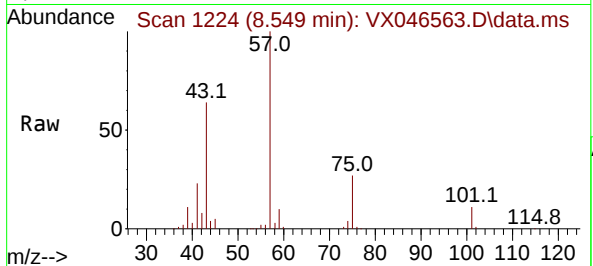




#51
4-Methyl-2-Pentanone
Concen: 20.593 ug/l
RT: 8.549 min Scan# 11
Delta R.T. -0.024 min
Lab File: VX046563.D
Acq: 07 Jun 2025 07:23

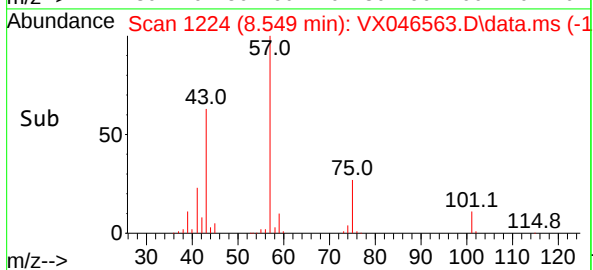
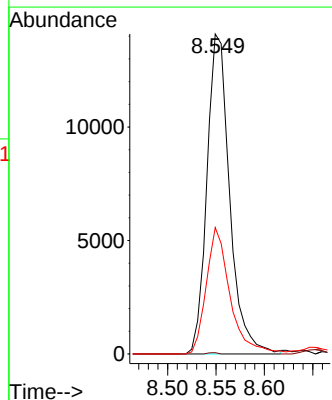
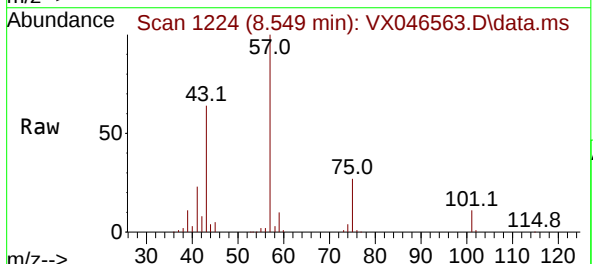
Instrument :
MSVOA_X
ClientSampleId :
TP-S

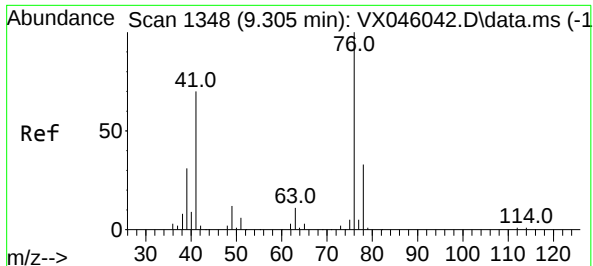
Tgt Ion: 43 Resp: 55807
Ion Ratio Lower Upper
43 100
58 7.0 28.9 43.3#



#54
cis-1,3-Dichloropropene
Concen: 8.219 ug/l
RT: 8.549 min Scan# 1224
Delta R.T. 0.177 min
Lab File: VX046563.D
Acq: 07 Jun 2025 07:23

Tgt Ion: 75 Resp: 23081
Ion Ratio Lower Upper
75 100
77 0.4 25.4 38.0#
39 39.5 52.2 78.4#





#57

1,3-Dichloropropane

Concen: 0.511 ug/l

RT: 9.482 min Scan# 1377

Delta R.T. 0.171 min

Lab File: VX046563.D

Acq: 07 Jun 2025 07:23

Instrument :

MSVOA_X

ClientSampleId :

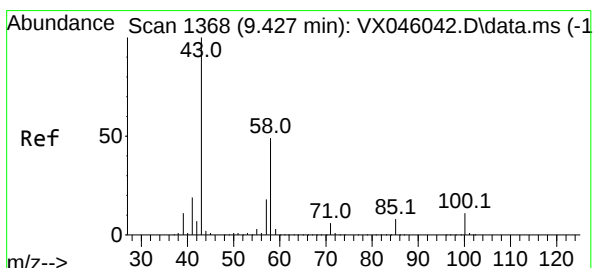
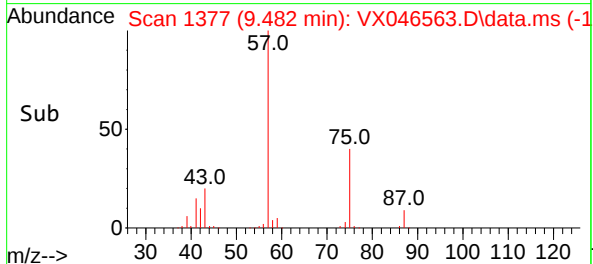
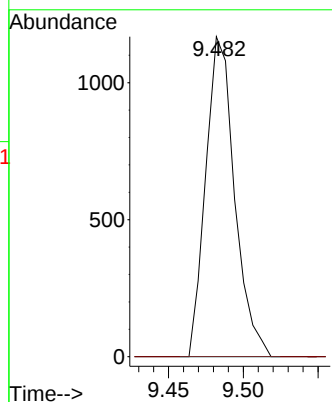
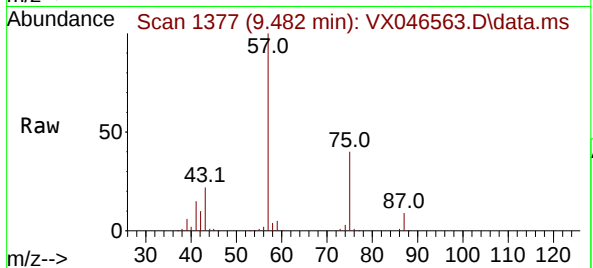
TP-S

Tgt Ion: 76 Resp: 1570

Ion Ratio Lower Upper

76 100

78 0.0 26.3 39.5#



#59

2-Hexanone

Concen: 3.662 ug/l

RT: 9.378 min Scan# 1360

Delta R.T. -0.055 min

Lab File: VX046563.D

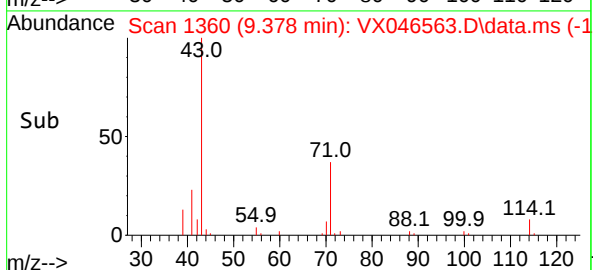
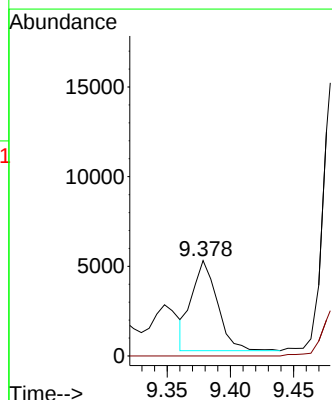
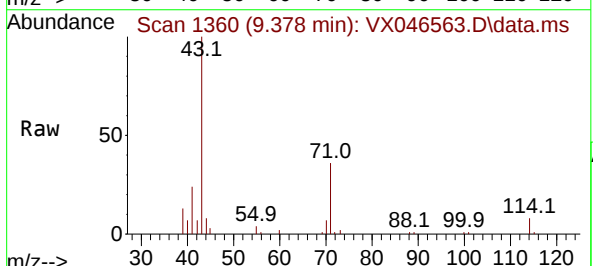
Acq: 07 Jun 2025 07:23

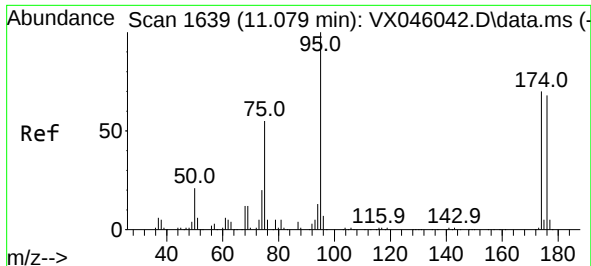
Tgt Ion: 43 Resp: 7117

Ion Ratio Lower Upper

43 100

58 0.0 24.9 74.6#

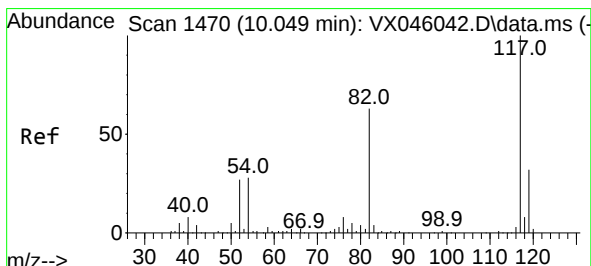
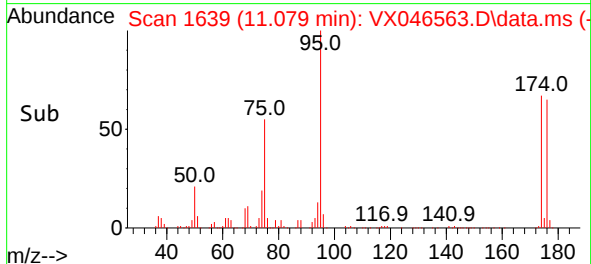
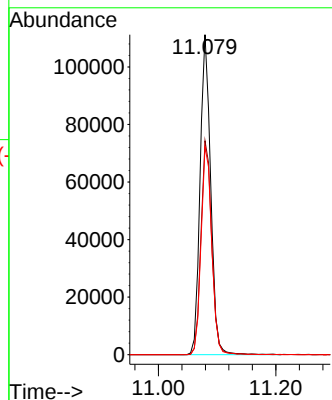
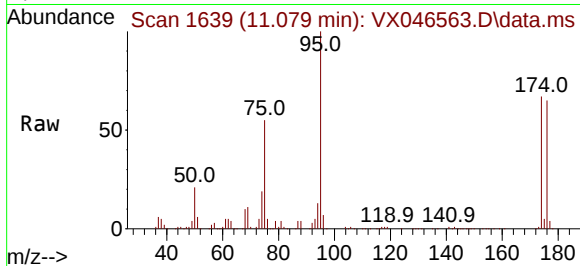




#62
4-Bromofluorobenzene
Concen: 58.054 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046563.D
Acq: 07 Jun 2025 07:23

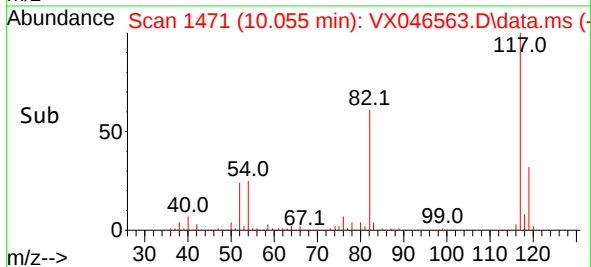
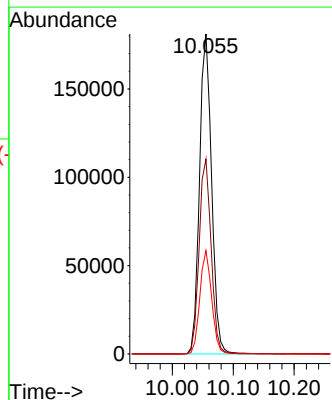
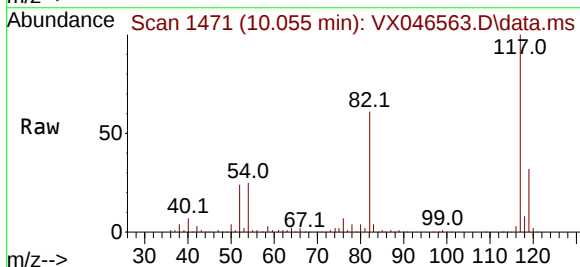
Instrument :
MSVOA_X
ClientSampleId :
TP-S

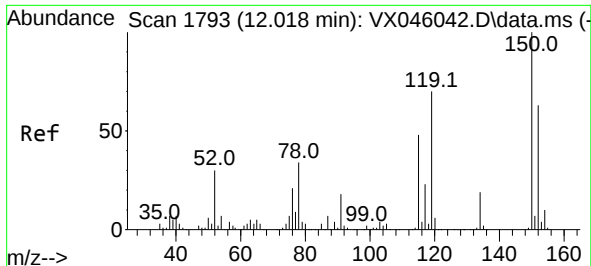
Tgt Ion: 95 Resp: 138948
Ion Ratio Lower Upper
95 100
174 68.3 0.0 135.8
176 65.9 0.0 131.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX046563.D
Acq: 07 Jun 2025 07:23

Tgt Ion: 117 Resp: 248959
Ion Ratio Lower Upper
117 100
82 60.9 50.6 76.0
119 32.3 25.8 38.6

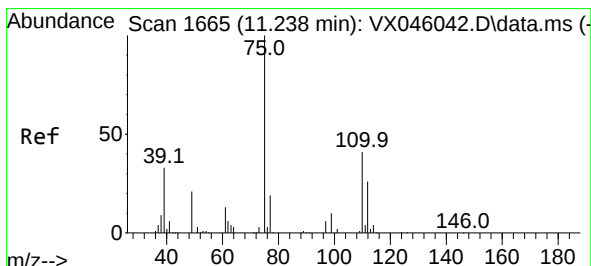
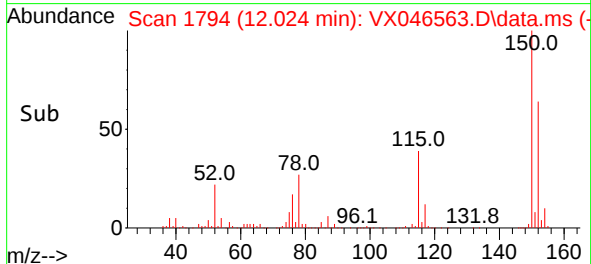
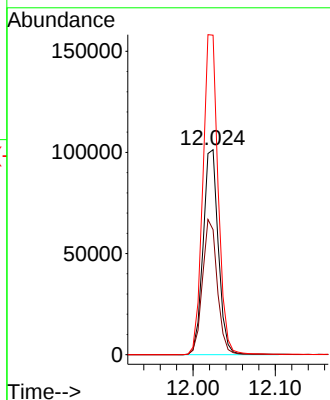
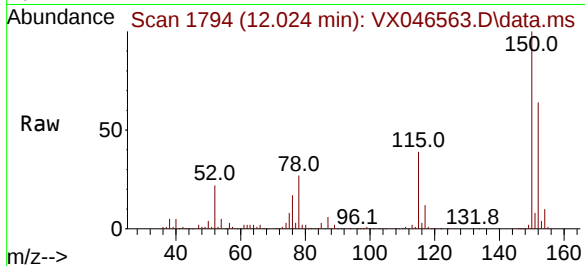




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.024 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: VX046563.D
 Acq: 07 Jun 2025 07:23

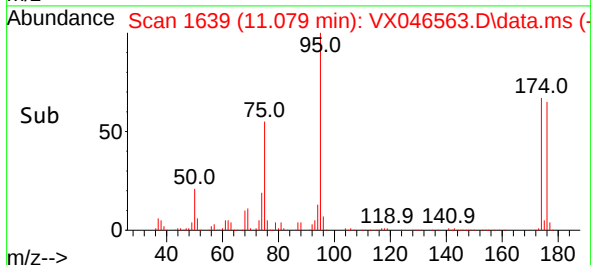
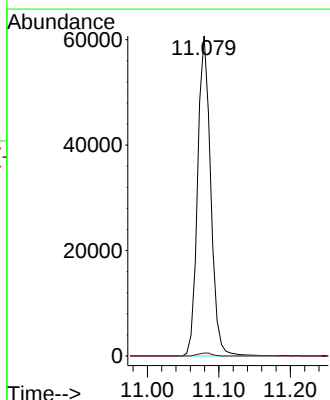
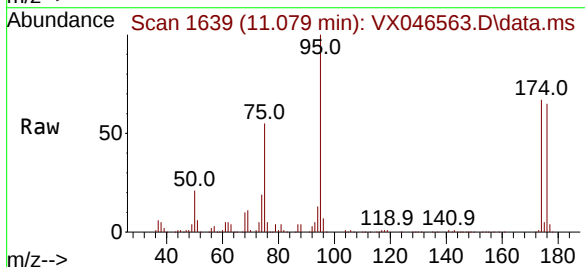
Instrument :
 MSVOA_X
 ClientSampleId :
 TP-S

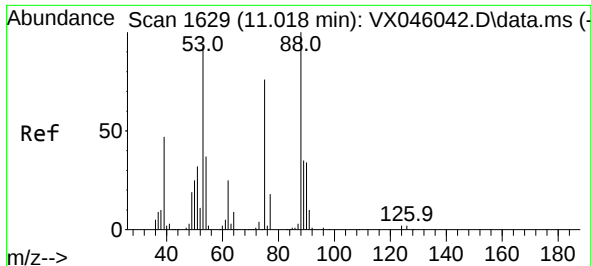
Tgt Ion:152 Resp: 130205
 Ion Ratio Lower Upper
 152 100
 115 64.1 46.9 140.7
 150 157.1 0.0 351.0



#76
 1,2,3-Trichloropropane
 Concen: 27.854 ug/l
 RT: 11.079 min Scan# 1639
 Delta R.T. -0.159 min
 Lab File: VX046563.D
 Acq: 07 Jun 2025 07:23

Tgt Ion: 75 Resp: 76818
 Ion Ratio Lower Upper
 75 100
 77 1.0 20.5 61.5#

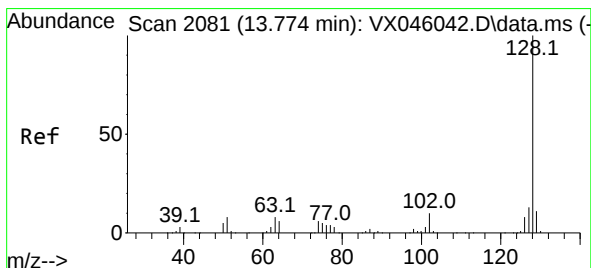
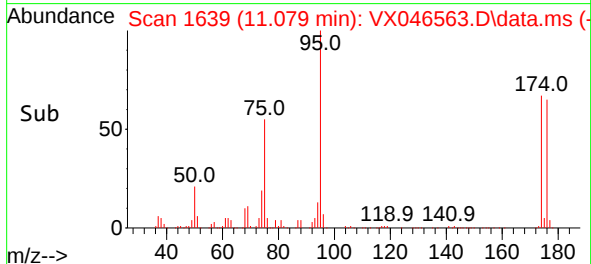
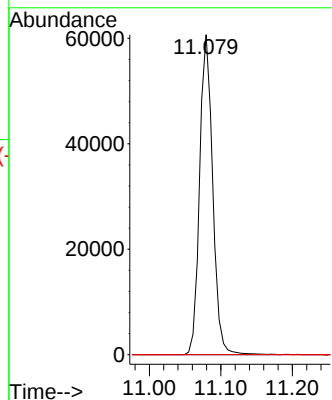
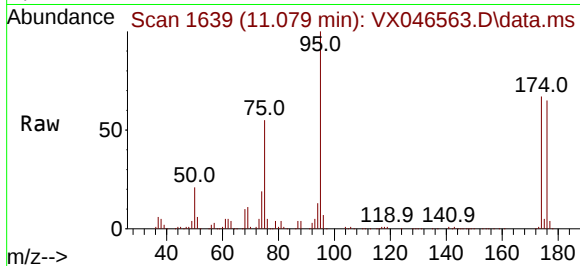




#81
trans-1,4-Dichloro-2-butene
Concen: 80.347 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX046563.D
Acq: 07 Jun 2025 07:23

Instrument :
MSVOA_X
ClientSampleId :
TP-S

Tgt Ion: 75 Resp: 76818
Ion Ratio Lower Upper
75 100
53 0.0 100.5 150.7#
89 0.0 37.0 55.6#



#95
Naphthalene
Concen: 0.386 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. -0.000 min
Lab File: VX046563.D
Acq: 07 Jun 2025 07:23

Tgt Ion: 128 Resp: 3714
Ion Ratio Lower Upper
128 100
127 10.2 10.4 15.6#
129 8.7 8.6 13.0

