

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060925\
 Data File : VX046571.D
 Acq On : 09 Jun 2025 12:16
 Operator : JC/MD
 Sample : Q2240-04RE
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TP-3

Quant Time: Jun 10 01:41:01 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

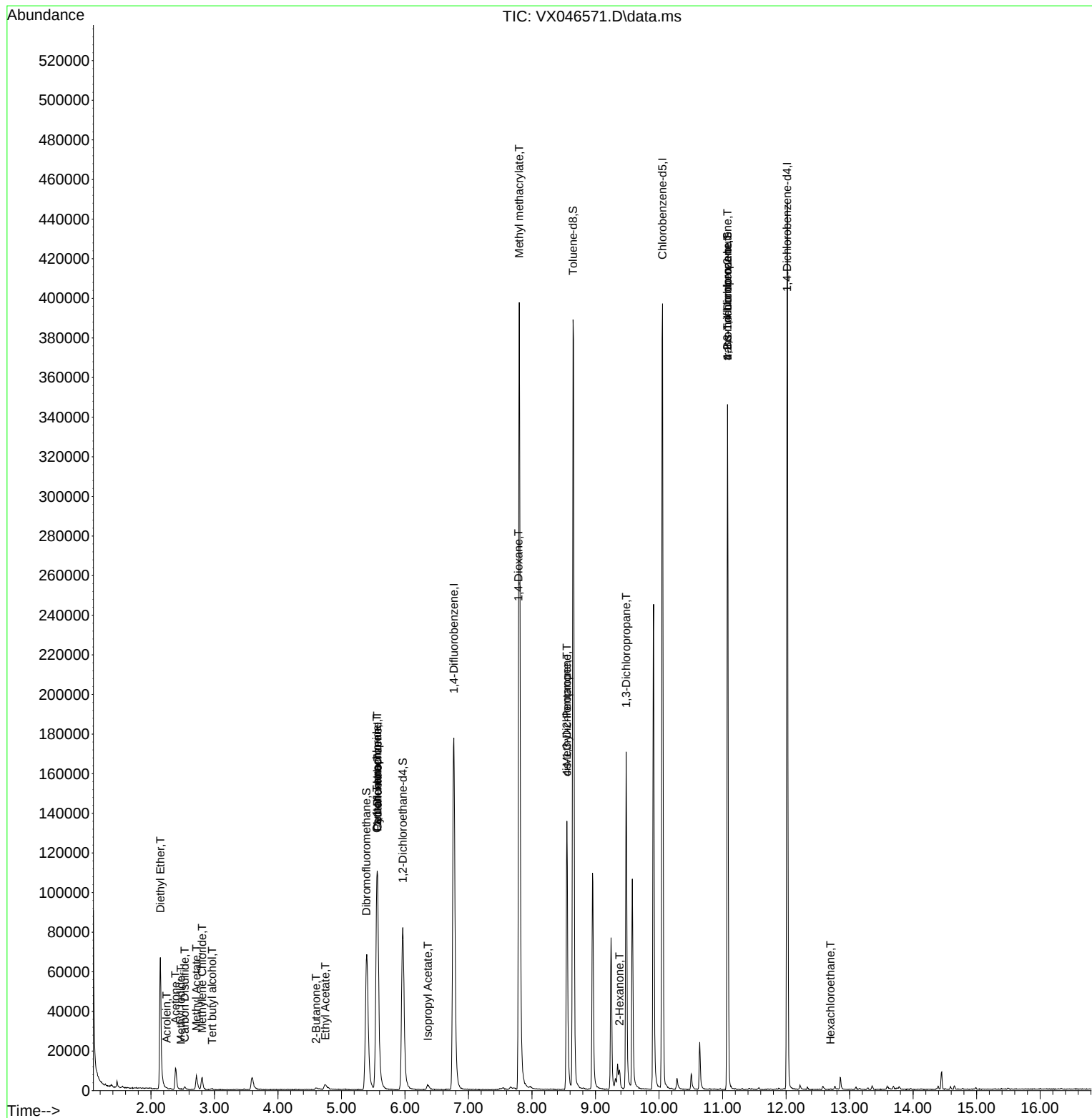
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.568	168	106054	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	186685	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	170842	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	85291	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	90255	47.835	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	95.660%
35) Dibromofluoromethane	5.391	113	65120	47.433	ug/l	-0.01
Spiked Amount	50.000	Range	75 - 124	Recovery	=	94.860%
50) Toluene-d8	8.647	98	232158	51.292	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	102.580%
62) 4-Bromofluorobenzene	11.079	95	91307	48.757	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	97.520%
Target Compounds						
					Qvalue	
8) Diethyl Ether	2.148	74	26859	34.391	ug/l	88
10) Methyl Iodide	2.471	142	311	0.206	ug/l #	72
11) Tert butyl alcohol	2.965	59	92	0.439	ug/l #	72
13) Acrolein	2.246	56	88	30.311	ug/l #	73
16) Acetone	2.386	43	13769	22.836	ug/l	96
17) Carbon Disulfide	2.532	76	1073	0.602	ug/l #	91
18) Methyl Acetate	2.715	43	9918	4.413	ug/l	99
20) Methylene Chloride	2.806	84	2943	1.944	ug/l	89
25) 2-Butanone	4.599	43	1664	1.584	ug/l	98
31) Cyclohexane	5.568	56	2707	1.234	ug/l #	14
36) 1,1-Dichloropropene	5.562	75	9874	5.035	ug/l #	47
37) Ethyl Acetate	4.745	43	5265	2.751	ug/l	96
38) Carbon Tetrachloride	5.556	117	12472	5.678	ug/l #	16
43) Isopropyl Acetate	6.361	43	3916	1.174	ug/l #	93
48) Methyl methacrylate	7.799	41	39933	23.260	ug/l #	47
49) 1,4-Dioxane	7.787	88	25	1.089	ug/l #	1
51) 4-Methyl-2-Pentanone	8.549	43	49885	23.527	ug/l #	50
54) cis-1,3-Dichloropropene	8.549	75	21067	9.587	ug/l #	61
57) 1,3-Dichloropropane	9.482	76	1425	0.592	ug/l #	42
59) 2-Hexanone	9.378	43	7402	4.868	ug/l #	28
76) 1,2,3-Trichloropropane	11.079	75	49768	27.548	ug/l #	36
81) trans-1,4-Dichloro-2-b...	11.079	75	49768	79.466	ug/l #	1
90) Hexachloroethane	12.701	117	217	0.200	ug/l #	19

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

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Quant Time: Jun 10 01:41:01 2025
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Quant Title : SW846 8260
QLast Update : Fri Jun 06 16:56:12 2025
Response via : Initial Calibration

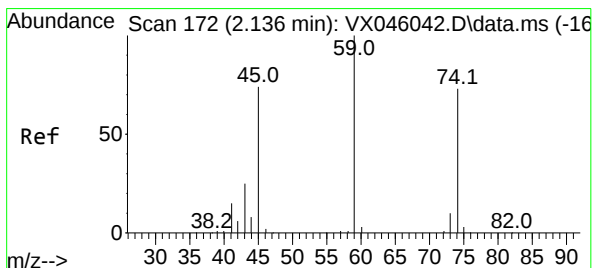
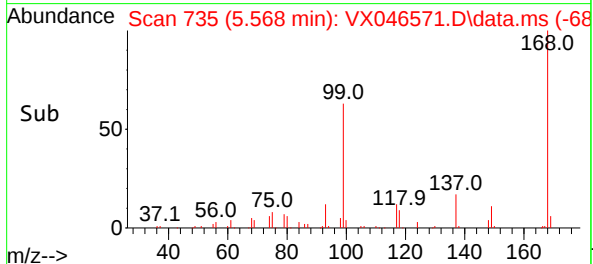
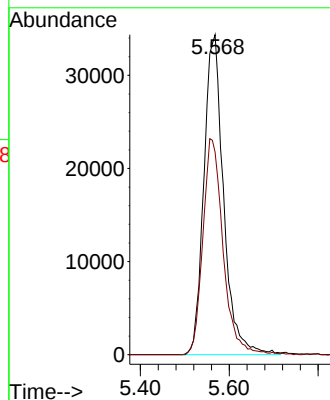
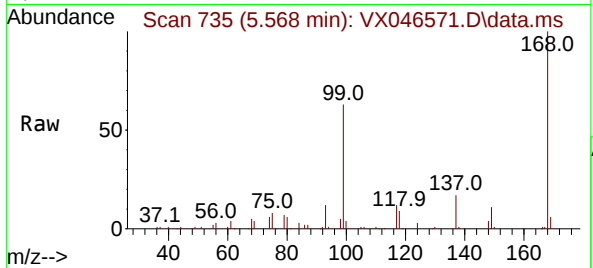




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.568 min Scan# 71
Delta R.T. 0.000 min
Lab File: VX046571.D
Acq: 09 Jun 2025 12:16

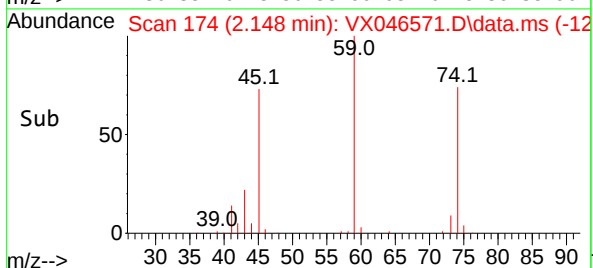
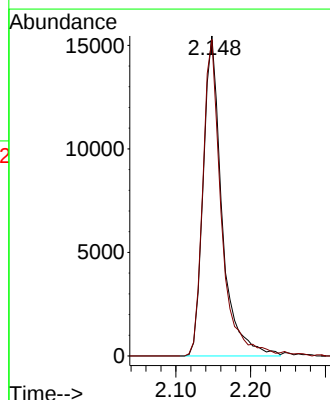
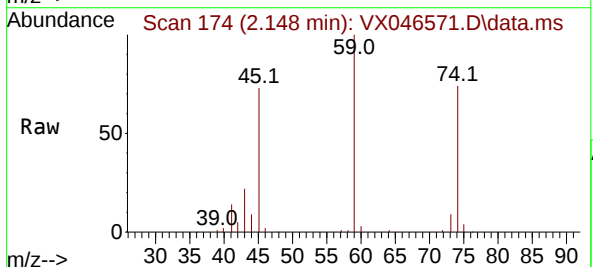
Instrument :
MSVOA_X
ClientSampleId :
TP-3

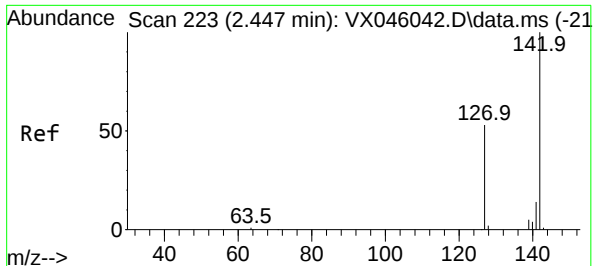
Tgt Ion:168 Resp: 106054
Ion Ratio Lower Upper
168 100
99 63.3 54.9 82.3



#8
Diethyl Ether
Concen: 34.391 ug/l
RT: 2.148 min Scan# 174
Delta R.T. -0.006 min
Lab File: VX046571.D
Acq: 09 Jun 2025 12:16

Tgt Ion: 74 Resp: 26859
Ion Ratio Lower Upper
74 100
45 97.6 54.9 164.8

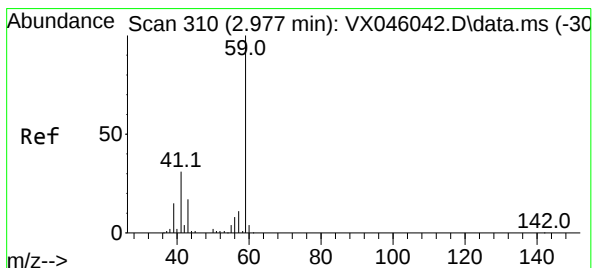
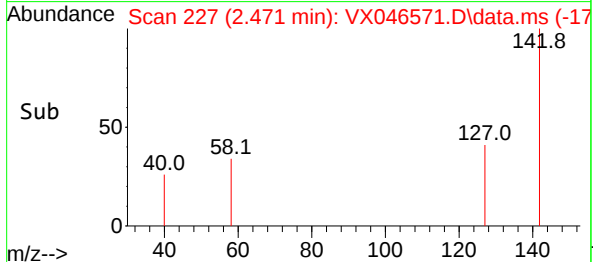
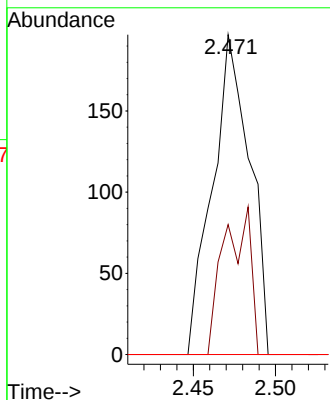
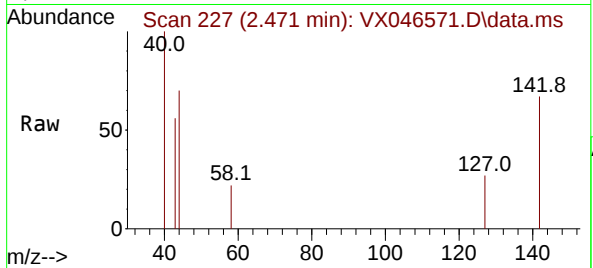




#10
Methyl Iodide
Concen: 0.206 ug/l
RT: 2.471 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX046571.D
Acq: 09 Jun 2025 12:16

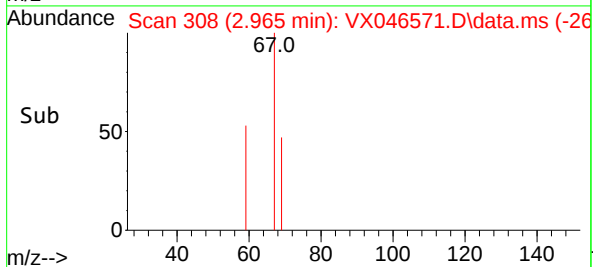
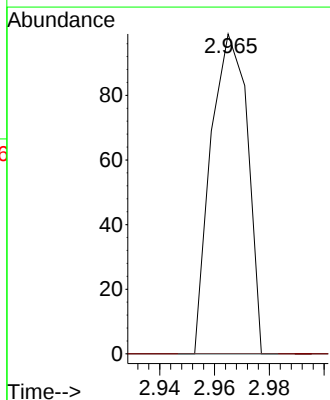
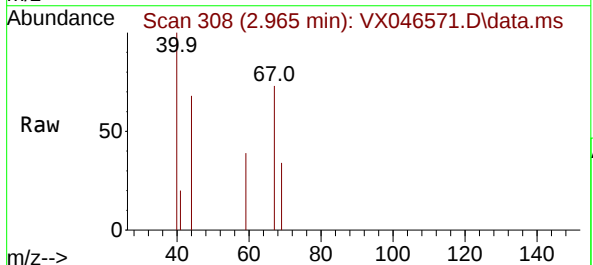
Instrument :
MSVOA_X
ClientSampleId :
TP-3

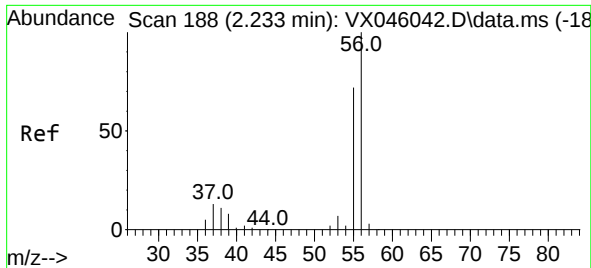
Tgt Ion:142 Resp: 311
Ion Ratio Lower Upper
142 100
127 33.4 41.7 62.5#
141 0.0 11.5 17.3#



#11
Tert butyl alcohol
Concen: 0.439 ug/l
RT: 2.965 min Scan# 308
Delta R.T. -0.006 min
Lab File: VX046571.D
Acq: 09 Jun 2025 12:16

Tgt Ion: 59 Resp: 92
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#

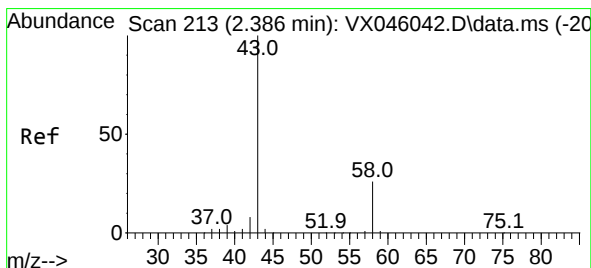
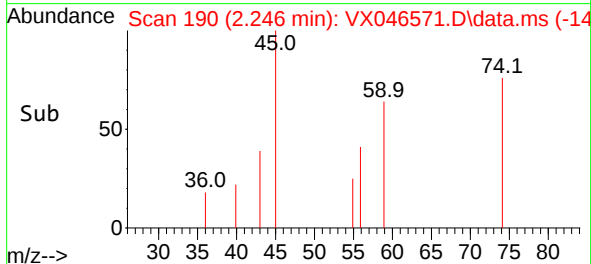
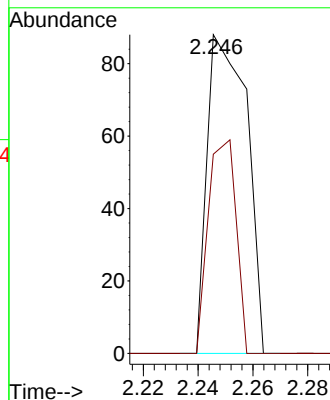
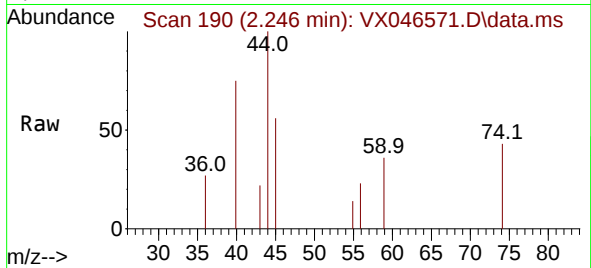




#13
Acrolein
Concen: 30.311 ug/l
RT: 2.246 min Scan# 190
Delta R.T. -0.005 min
Lab File: VX046571.D
Acq: 09 Jun 2025 12:16

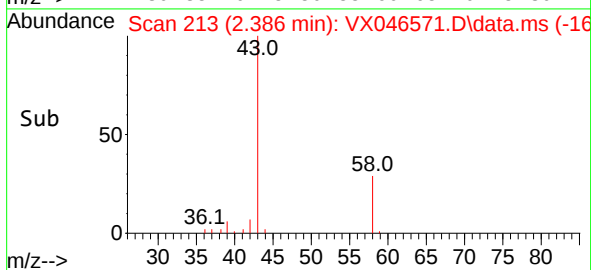
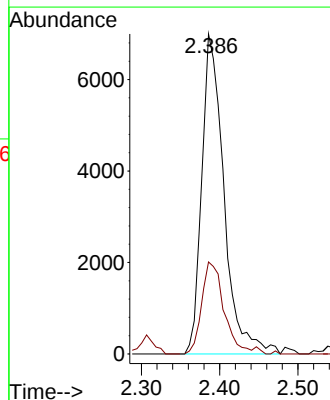
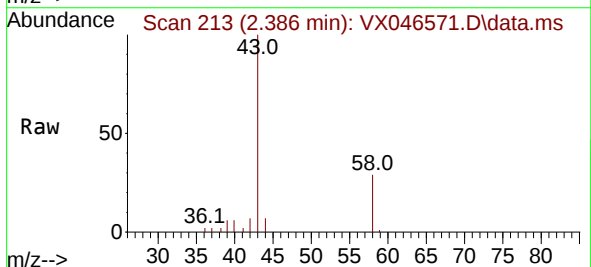
Instrument :
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ClientSampleId :
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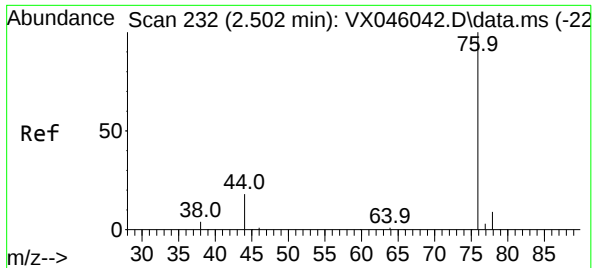
Tgt Ion: 56 Resp: 88
Ion Ratio Lower Upper
56 100
55 47.7 56.2 84.4#



#16
Acetone
Concen: 22.836 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX046571.D
Acq: 09 Jun 2025 12:16

Tgt Ion: 43 Resp: 13769
Ion Ratio Lower Upper
43 100
58 28.7 21.2 31.8

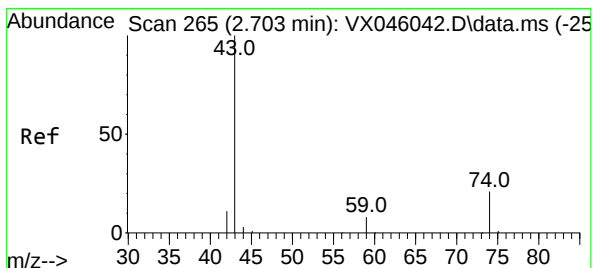
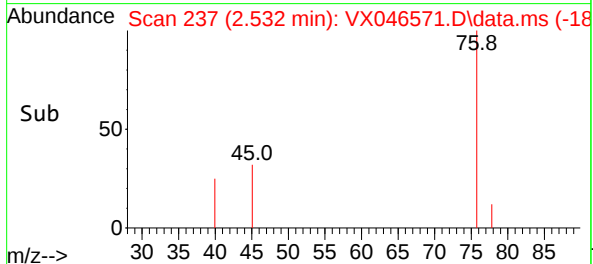
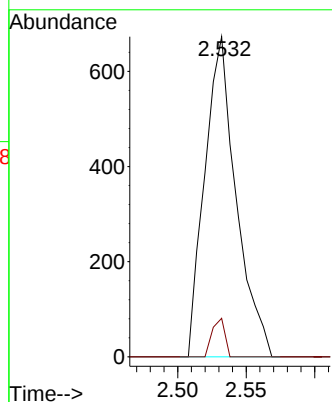
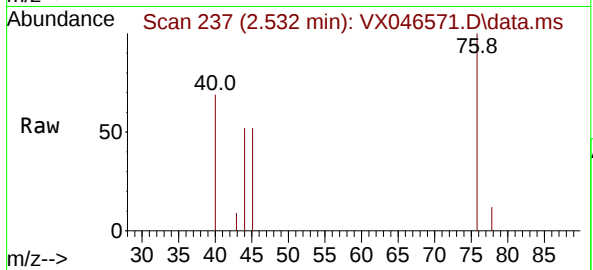




#17
Carbon Disulfide
Concen: 0.602 ug/l
RT: 2.532 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX046571.D
Acq: 09 Jun 2025 12:16

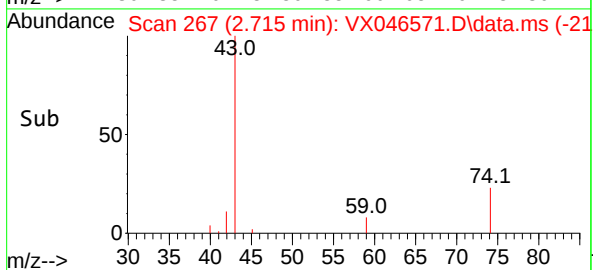
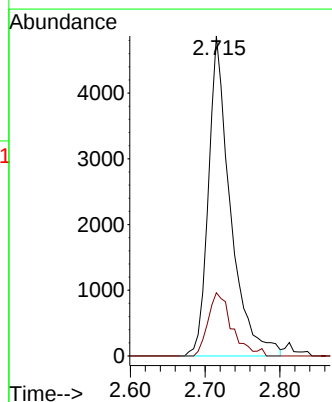
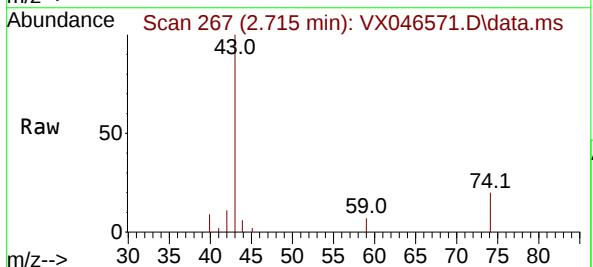
Instrument :
MSVOA_X
ClientSampleId :
TP-3

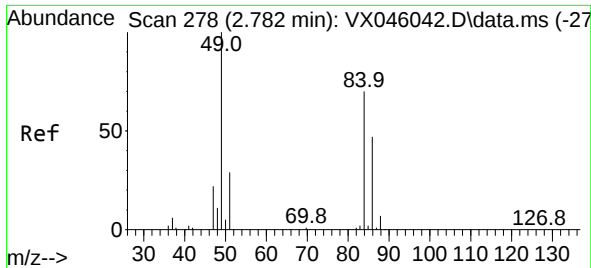
Tgt Ion: 76 Resp: 1073
Ion Ratio Lower Upper
76 100
78 12.0 7.0 10.4#



#18
Methyl Acetate
Concen: 4.413 ug/l
RT: 2.715 min Scan# 267
Delta R.T. -0.006 min
Lab File: VX046571.D
Acq: 09 Jun 2025 12:16

Tgt Ion: 43 Resp: 9918
Ion Ratio Lower Upper
43 100
74 21.6 16.7 25.1

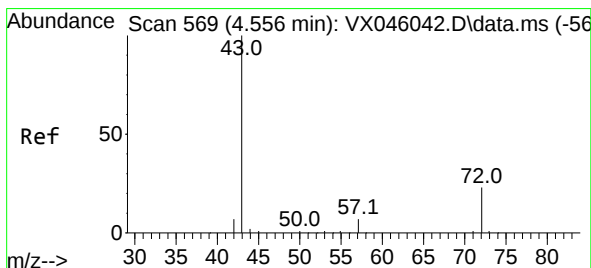
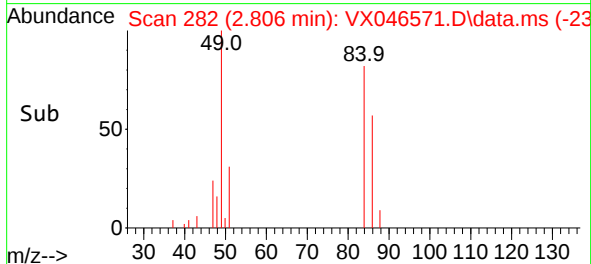
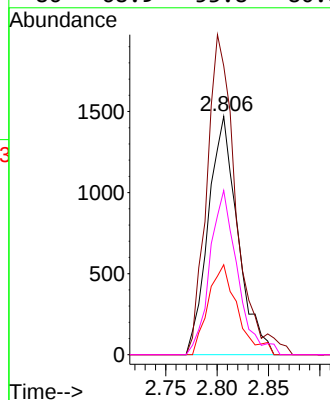
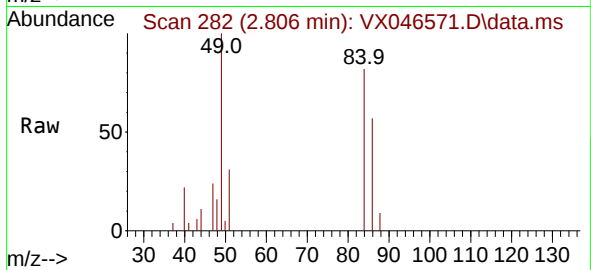




#20
Methylene Chloride
Concen: 1.944 ug/l
RT: 2.806 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX046571.D
Acq: 09 Jun 2025 12:16

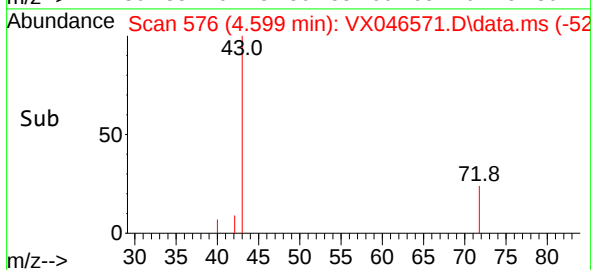
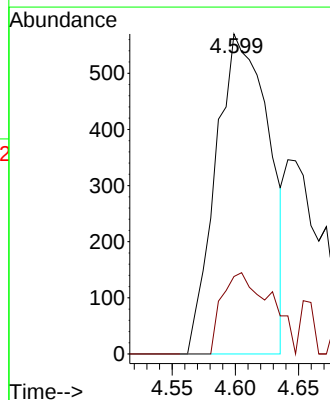
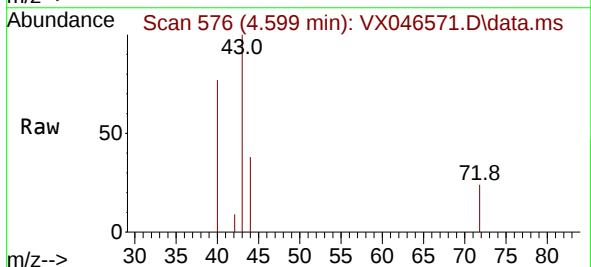
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ClientSampleId :
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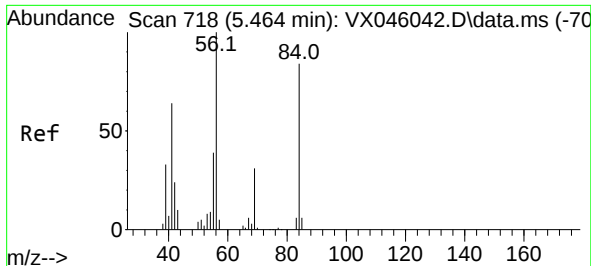
Tgt Ion:	84	Resp:	2943
Ion	Ratio	Lower	Upper
84	100		
49	121.2	113.9	170.9
51	37.8	33.5	50.3
86	68.9	53.8	80.8



#25
2-Butanone
Concen: 1.584 ug/l
RT: 4.599 min Scan# 576
Delta R.T. 0.025 min
Lab File: VX046571.D
Acq: 09 Jun 2025 12:16

Tgt Ion:	43	Resp:	1664
Ion	Ratio	Lower	Upper
43	100		
72	24.2	18.4	27.6

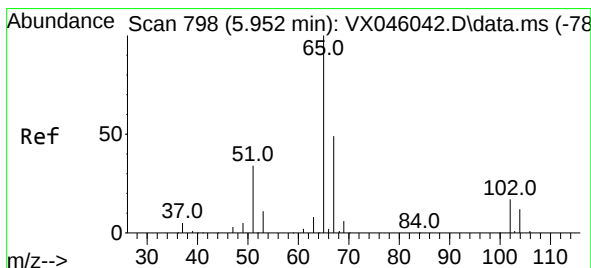
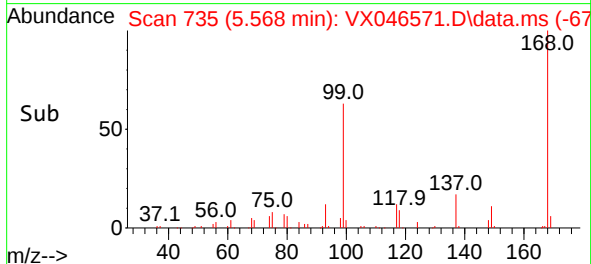
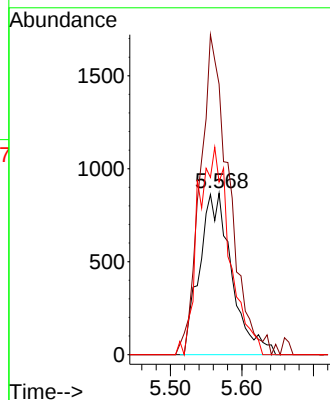
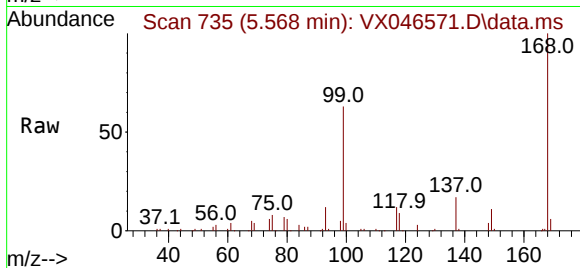




#31
Cyclohexane
Concen: 1.234 ug/l
RT: 5.568 min Scan# 718
Delta R.T. 0.079 min
Lab File: VX046571.D
Acq: 09 Jun 2025 12:16

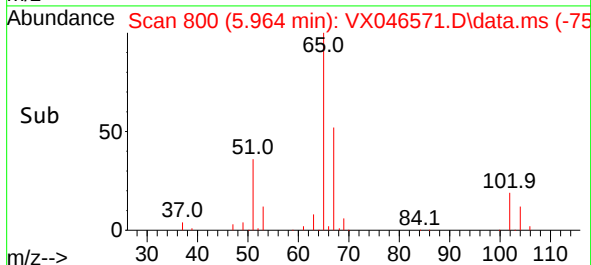
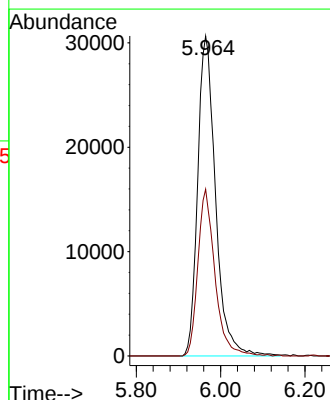
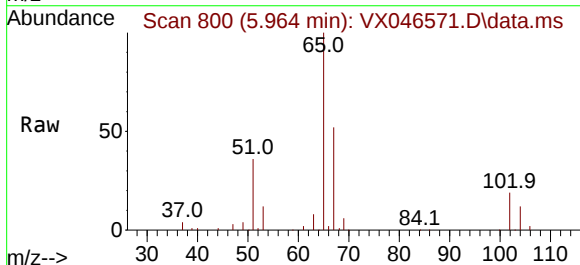
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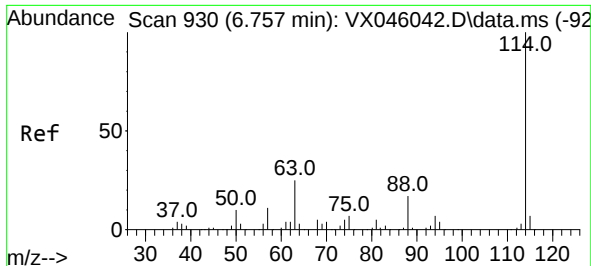
Tgt Ion: 56 Resp: 2707
Ion Ratio Lower Upper
56 100
69 167.6 24.4 36.6#
84 106.9 66.9 100.3#



#33
1,2-Dichloroethane-d4
Concen: 47.835 ug/l
RT: 5.964 min Scan# 800
Delta R.T. -0.006 min
Lab File: VX046571.D
Acq: 09 Jun 2025 12:16

Tgt Ion: 65 Resp: 90255
Ion Ratio Lower Upper
65 100
67 49.8 0.0 99.0

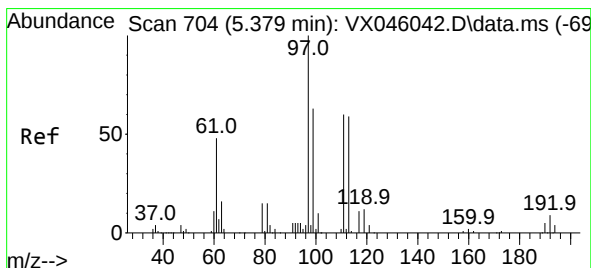
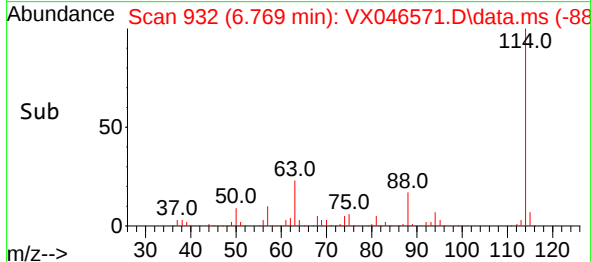
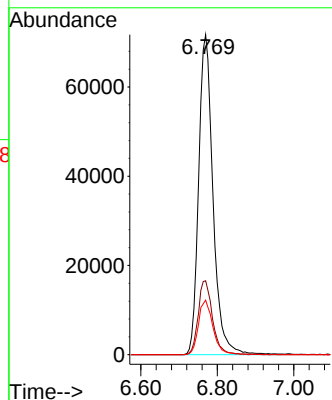
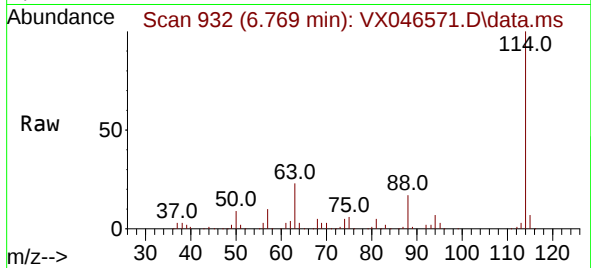




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 91
Delta R.T. -0.006 min
Lab File: VX046571.D
Acq: 09 Jun 2025 12:16

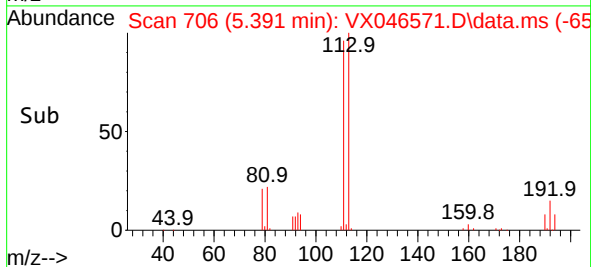
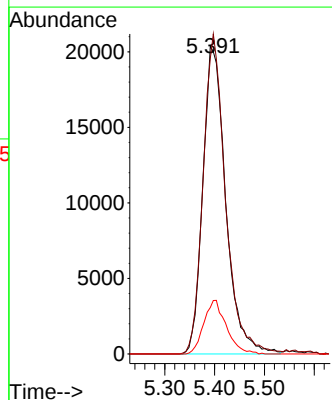
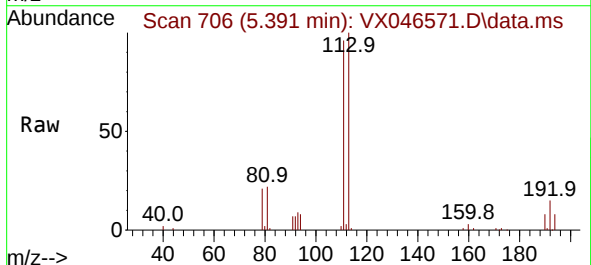
Instrument :
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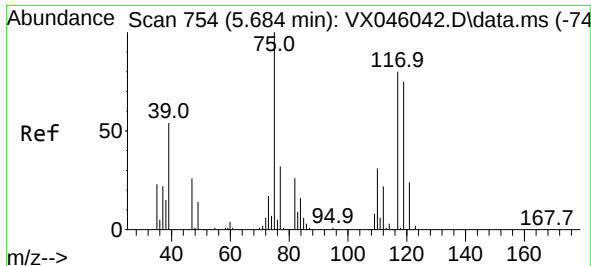
Tgt Ion:114 Resp: 186685
Ion Ratio Lower Upper
114 100
63 23.1 0.0 49.2
88 17.1 0.0 33.6



#35
Dibromofluoromethane
Concen: 47.433 ug/l
RT: 5.391 min Scan# 706
Delta R.T. -0.012 min
Lab File: VX046571.D
Acq: 09 Jun 2025 12:16

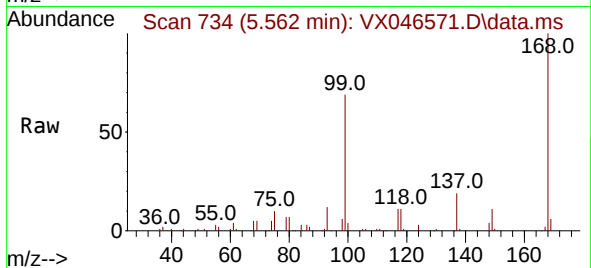
Tgt Ion:113 Resp: 65120
Ion Ratio Lower Upper
113 100
111 101.5 83.1 124.7
192 17.2 13.3 19.9



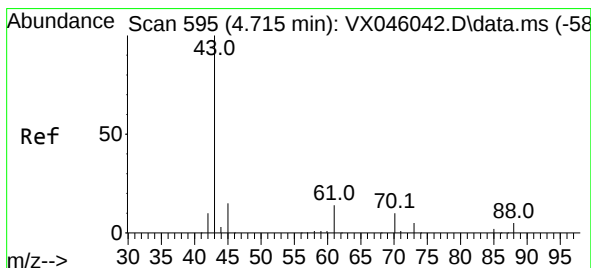
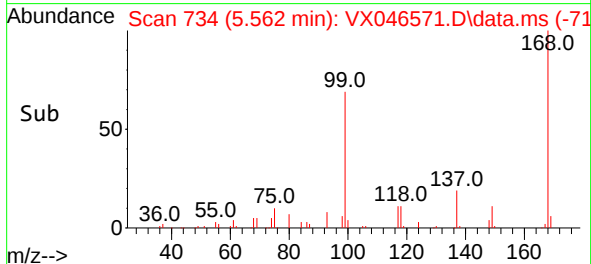
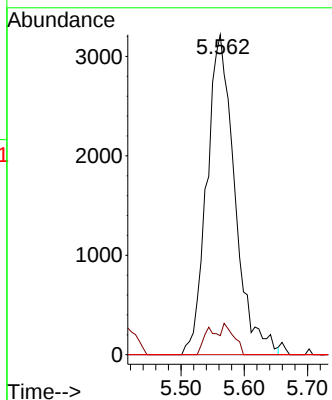


#36
1,1-Dichloropropene
Concen: 5.035 ug/l
RT: 5.562 min Scan# 71
Delta R.T. -0.152 min
Lab File: VX046571.D
Acq: 09 Jun 2025 12:16

Instrument :
MSVOA_X
ClientSampleId :
TP-3

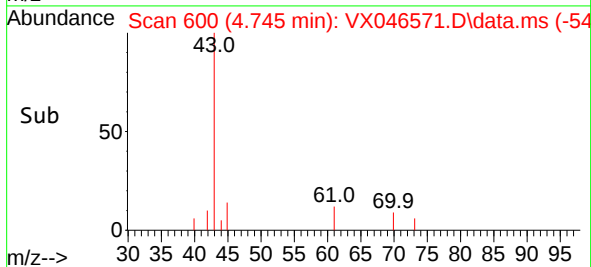
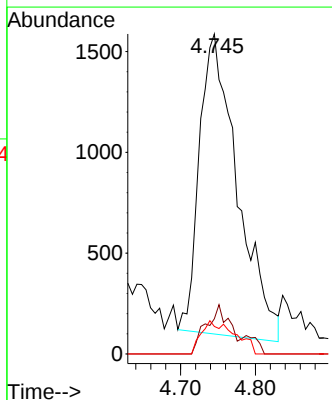
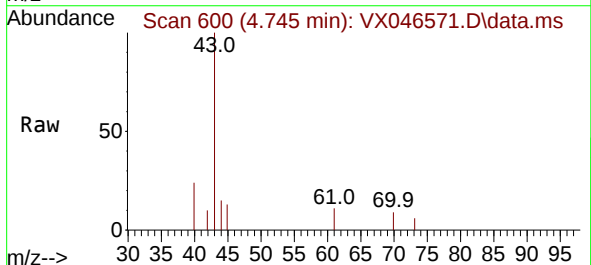


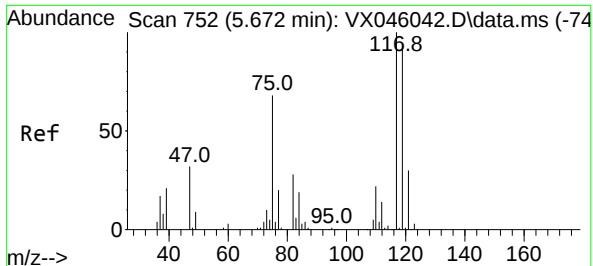
Tgt Ion: 75 Resp: 9874
Ion Ratio Lower Upper
75 100
110 3.9 16.3 48.9#
77 0.0 24.3 36.5#



#37
Ethyl Acetate
Concen: 2.751 ug/l
RT: 4.745 min Scan# 600
Delta R.T. 0.012 min
Lab File: VX046571.D
Acq: 09 Jun 2025 12:16

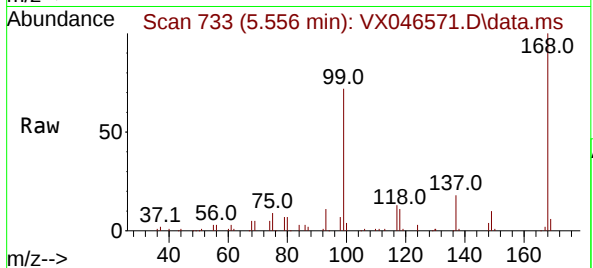
Tgt Ion: 43 Resp: 5265
Ion Ratio Lower Upper
43 100
61 10.5 10.3 15.5
70 9.7 7.9 11.9



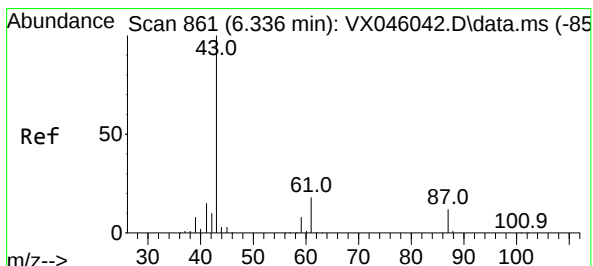
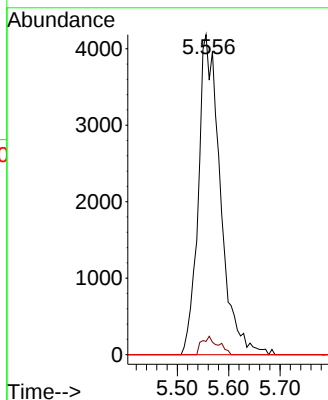
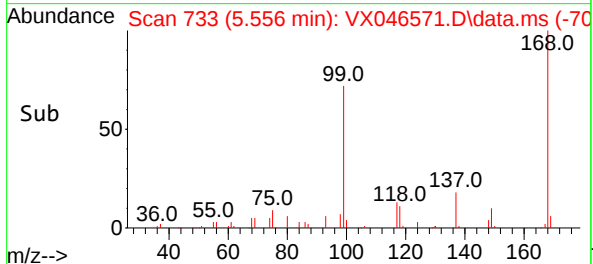


#38
Carbon Tetrachloride
Concen: 5.678 ug/l
RT: 5.556 min Scan# 711
Delta R.T. -0.140 min
Lab File: VX046571.D
Acq: 09 Jun 2025 12:16

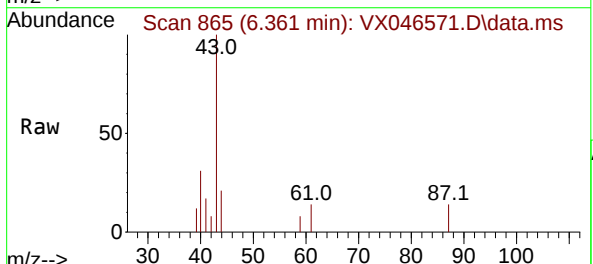
Instrument :
MSVOA_X
ClientSampleId :
TP-3



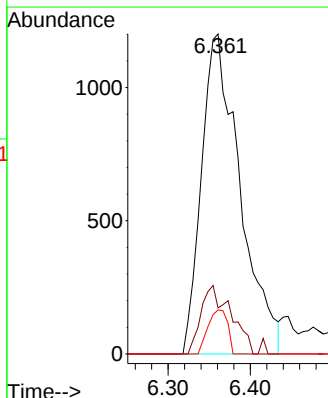
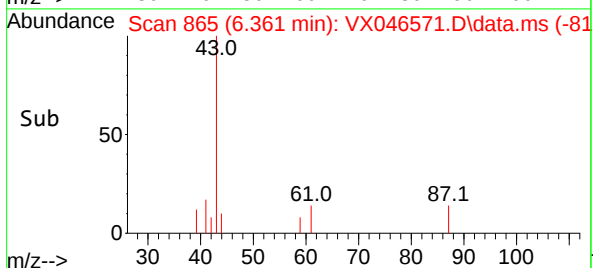
Tgt Ion:117 Resp: 12472
Ion Ratio Lower Upper
117 100
119 4.2 75.2 112.8#
121 0.0 24.2 36.4#

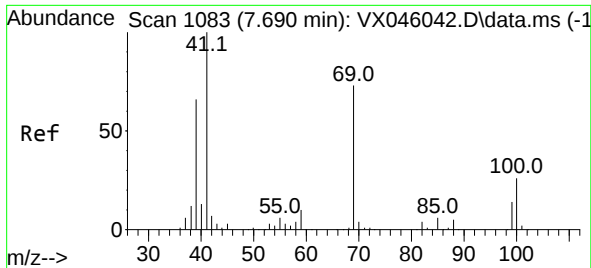


#43
Isopropyl Acetate
Concen: 1.174 ug/l
RT: 6.361 min Scan# 865
Delta R.T. 0.007 min
Lab File: VX046571.D
Acq: 09 Jun 2025 12:16



Tgt Ion: 43 Resp: 3916
Ion Ratio Lower Upper
43 100
61 16.7 14.3 21.5
87 6.9 9.5 14.3#

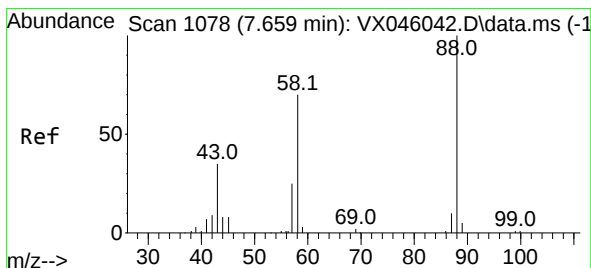
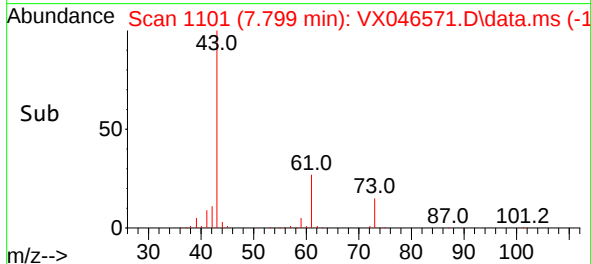
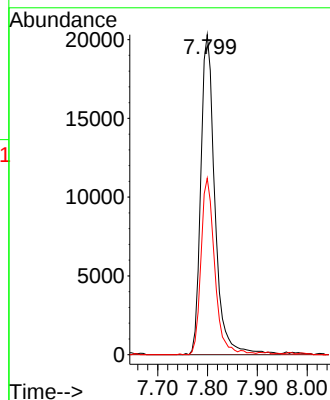
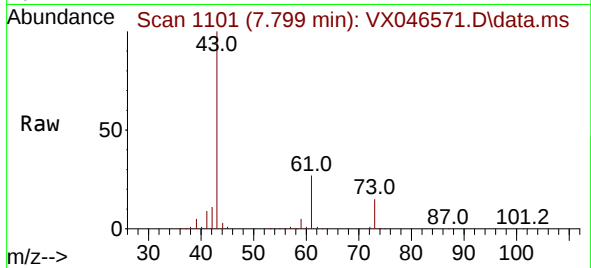




#48
Methyl methacrylate
Concen: 23.260 ug/l
RT: 7.799 min Scan# 1101
Delta R.T. 0.097 min
Lab File: VX046571.D
Acq: 09 Jun 2025 12:16

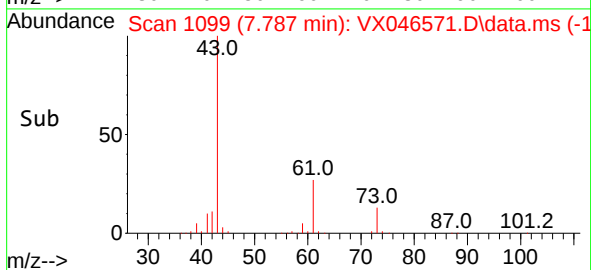
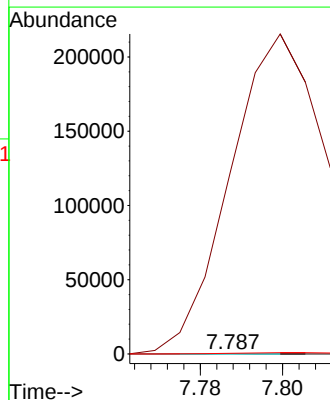
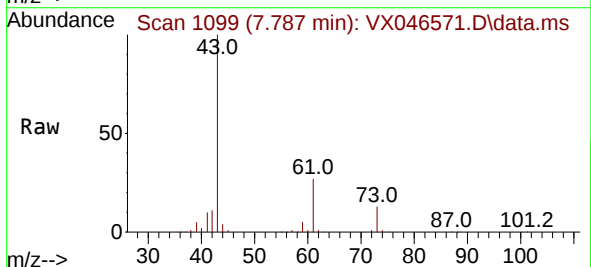
Instrument :
MSVOA_X
ClientSampleId :
TP-3

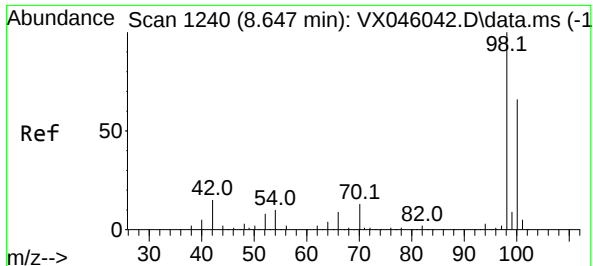
Tgt Ion: 41 Resp: 39933
Ion Ratio Lower Upper
41 100
69 0.0 58.5 87.7#
39 53.9 51.7 77.5



#49
1,4-Dioxane
Concen: 1.089 ug/l
RT: 7.787 min Scan# 1099
Delta R.T. 0.116 min
Lab File: VX046571.D
Acq: 09 Jun 2025 12:16

Tgt Ion: 88 Resp: 25
Ion Ratio Lower Upper
88 100
43 1602124.0 33.4 50.2#
58 7200.0 58.6 88.0#

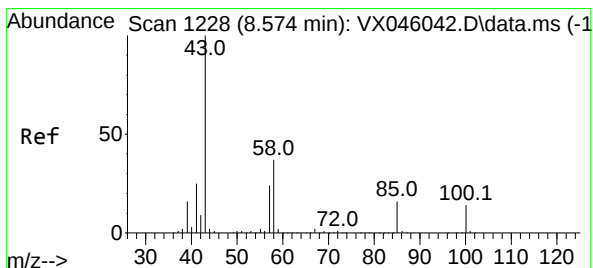
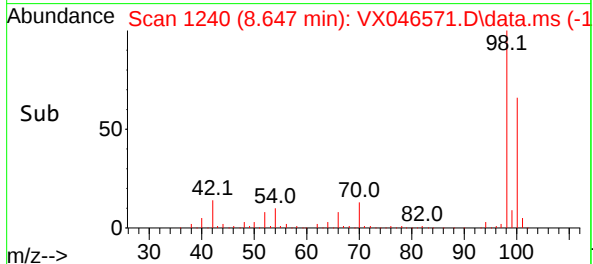
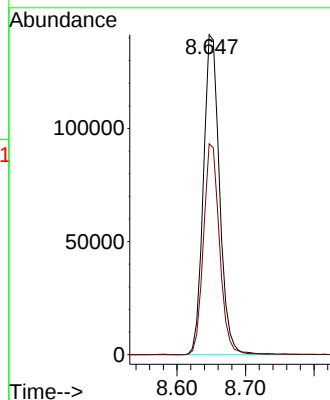
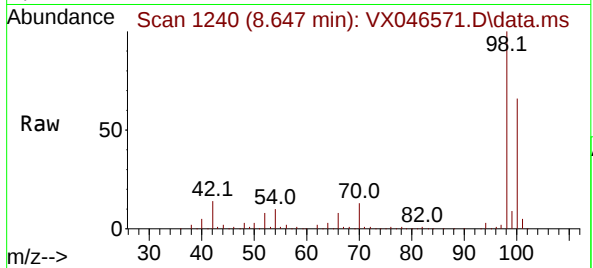




#50
Toluene-d8
Concen: 51.292 ug/l
RT: 8.647 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX046571.D
Acq: 09 Jun 2025 12:16

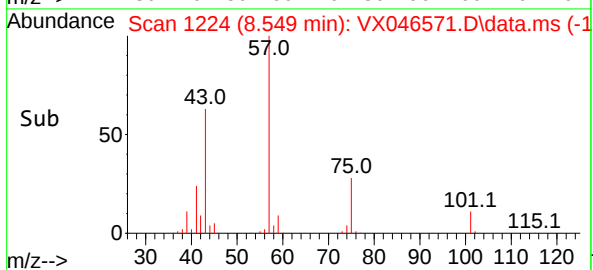
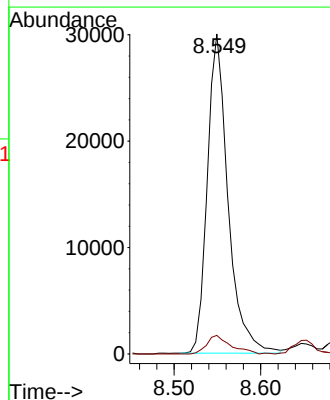
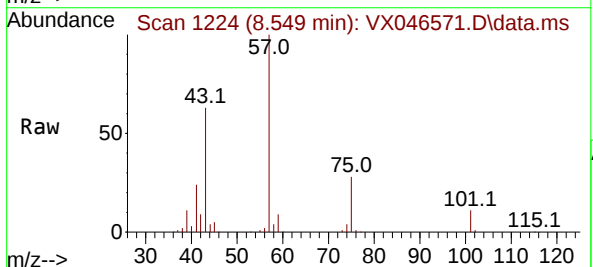
Instrument :
MSVOA_X
ClientSampleId :
TP-3

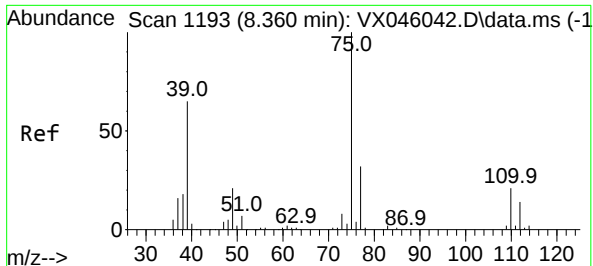
Tgt Ion: 98 Resp: 232158
Ion Ratio Lower Upper
98 100
100 65.5 53.5 80.3



#51
4-Methyl-2-Pentanone
Concen: 23.527 ug/l
RT: 8.549 min Scan# 1224
Delta R.T. -0.024 min
Lab File: VX046571.D
Acq: 09 Jun 2025 12:16

Tgt Ion: 43 Resp: 49885
Ion Ratio Lower Upper
43 100
58 6.8 28.9 43.3#

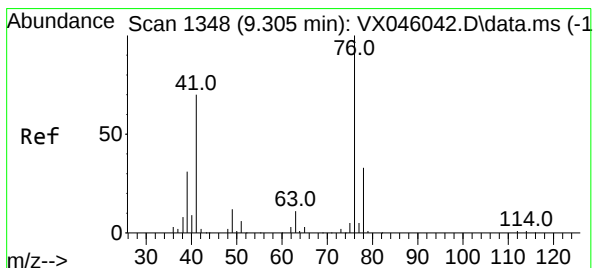
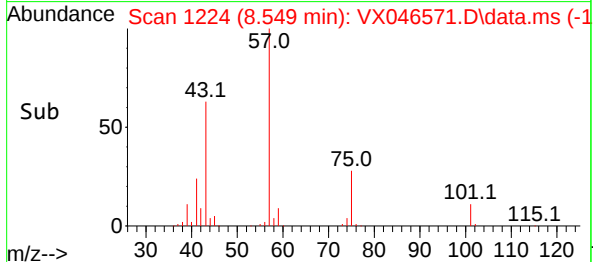
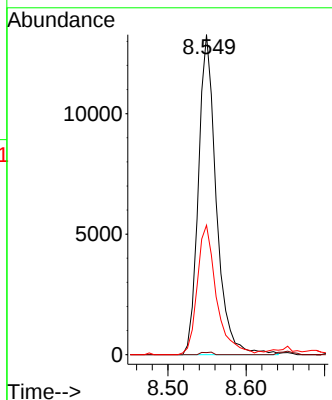
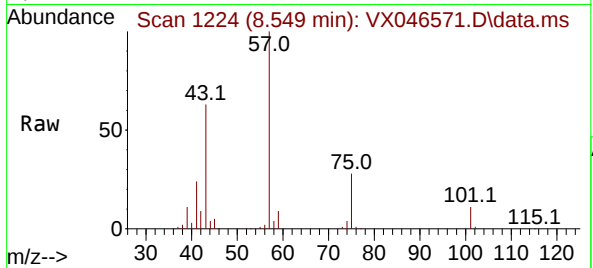




#54
 cis-1,3-Dichloropropene
 Concen: 9.587 ug/l
 RT: 8.549 min Scan# 1193
 Delta R.T. 0.177 min
 Lab File: VX046571.D
 Acq: 09 Jun 2025 12:16

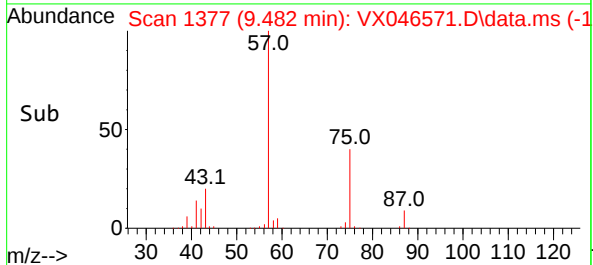
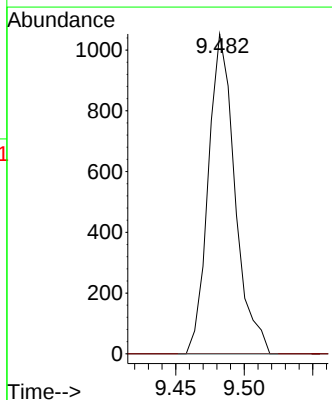
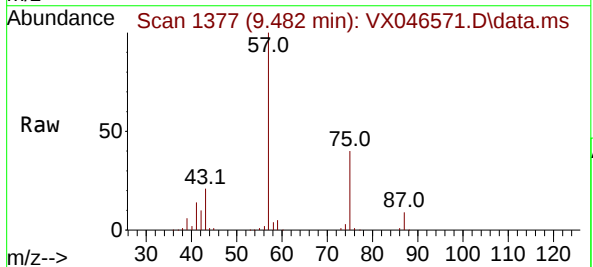
Instrument :
 MSVOA_X
 ClientSampleId :
 TP-3

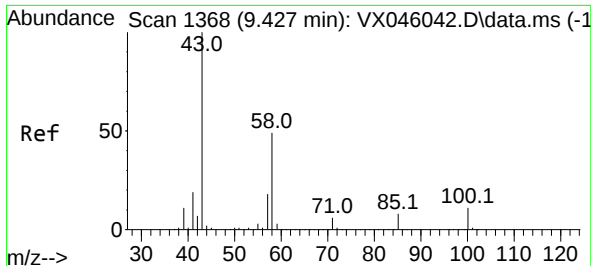
Tgt Ion: 75 Resp: 21067
 Ion Ratio Lower Upper
 75 100
 77 0.7 25.4 38.0#
 39 40.4 52.2 78.4#



#57
 1,3-Dichloropropane
 Concen: 0.592 ug/l
 RT: 9.482 min Scan# 1377
 Delta R.T. 0.171 min
 Lab File: VX046571.D
 Acq: 09 Jun 2025 12:16

Tgt Ion: 76 Resp: 1425
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.3 39.5#

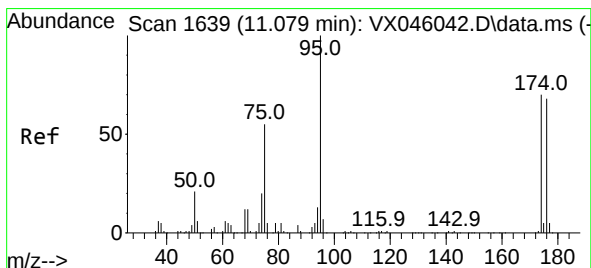
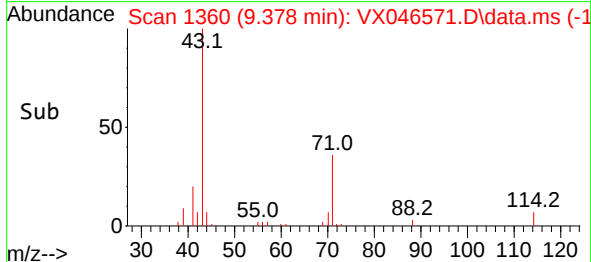
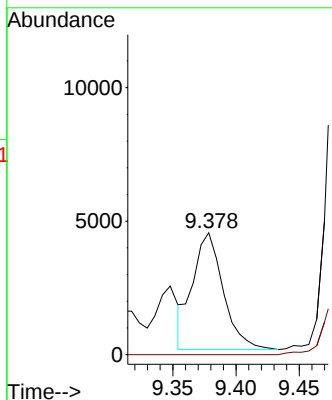
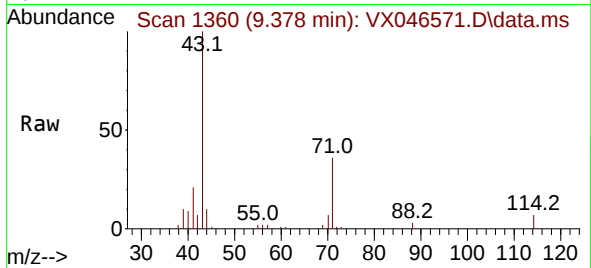




#59
2-Hexanone
Concen: 4.868 ug/l
RT: 9.378 min Scan# 11
Delta R.T. -0.055 min
Lab File: VX046571.D
Acq: 09 Jun 2025 12:16

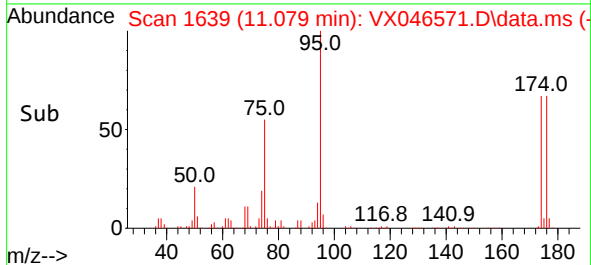
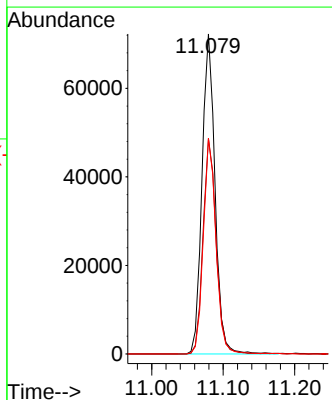
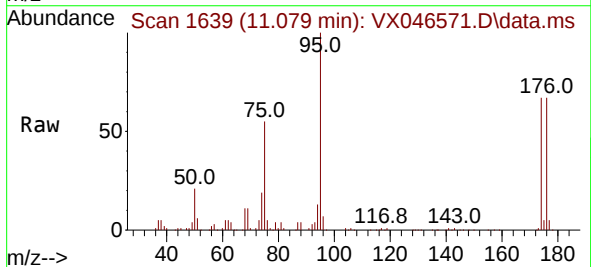
Instrument :
MSVOA_X
ClientSampleId :
TP-3

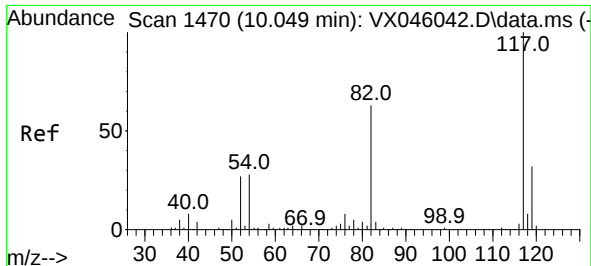
Tgt Ion: 43 Resp: 7402
Ion Ratio Lower Upper
43 100
58 0.0 24.9 74.6#



#62
4-Bromofluorobenzene
Concen: 48.757 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX046571.D
Acq: 09 Jun 2025 12:16

Tgt Ion: 95 Resp: 91307
Ion Ratio Lower Upper
95 100
174 67.9 0.0 135.8
176 65.7 0.0 131.4

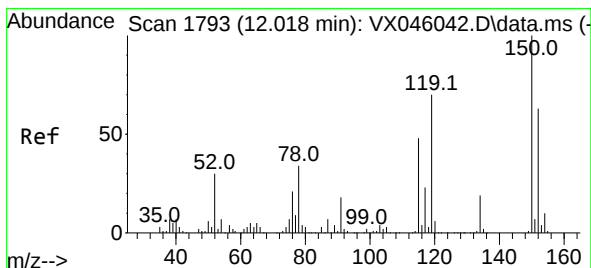
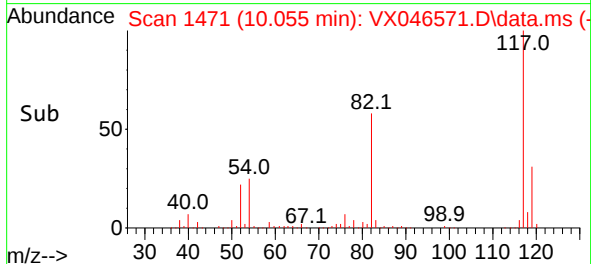
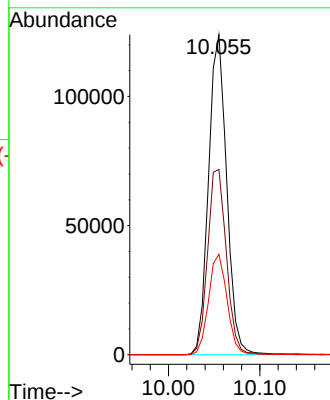
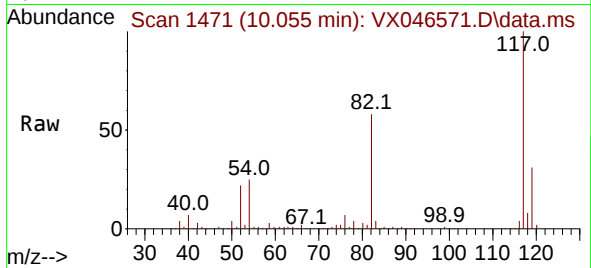




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX046571.D
Acq: 09 Jun 2025 12:16

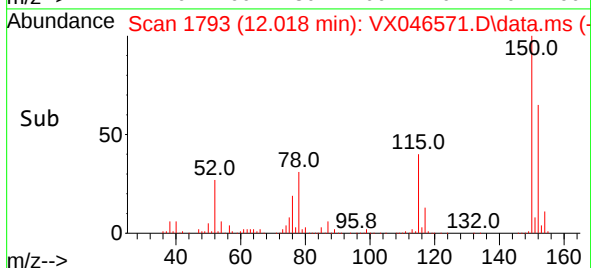
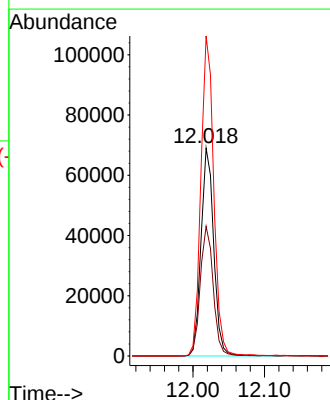
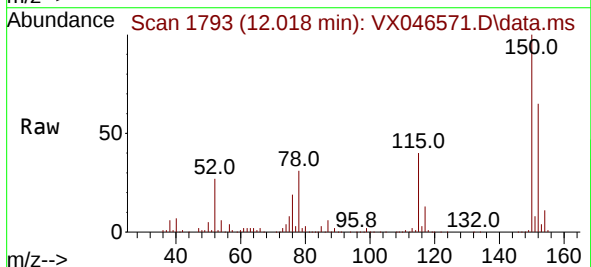
Instrument :
MSVOA_X
ClientSampleId :
TP-3

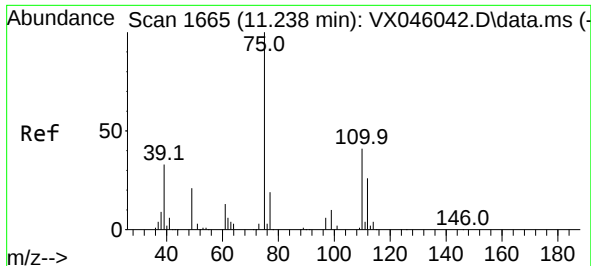
Tgt Ion:117 Resp: 170842
Ion Ratio Lower Upper
117 100
82 57.9 50.6 76.0
119 31.3 25.8 38.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.006 min
Lab File: VX046571.D
Acq: 09 Jun 2025 12:16

Tgt Ion:152 Resp: 85291
Ion Ratio Lower Upper
152 100
115 63.6 46.9 140.7
150 155.5 0.0 351.0

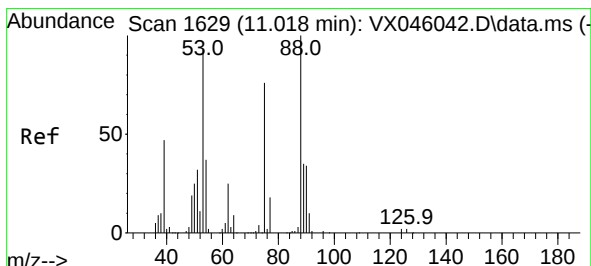
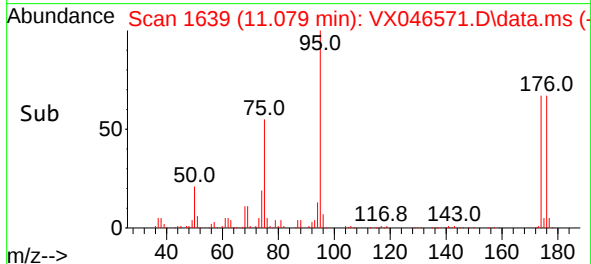
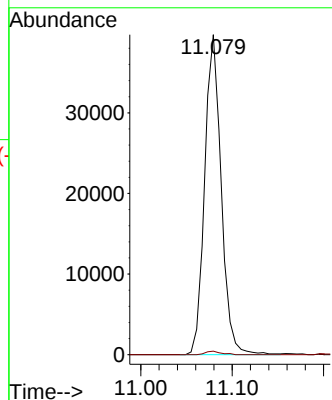
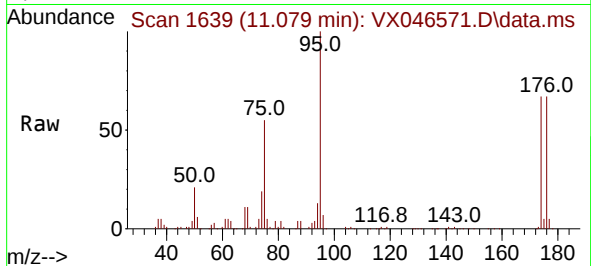




#76
1,2,3-Trichloropropane
Concen: 27.548 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.159 min
Lab File: VX046571.D
Acq: 09 Jun 2025 12:16

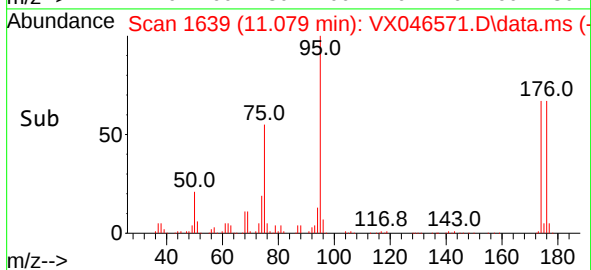
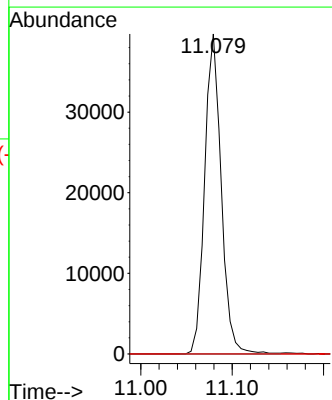
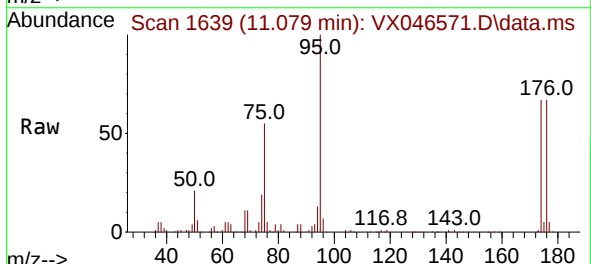
Instrument :
MSVOA_X
ClientSampleId :
TP-3

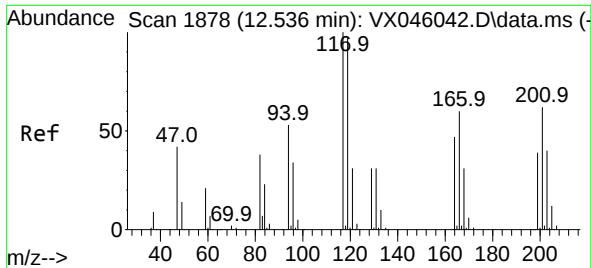
Tgt Ion: 75 Resp: 49768
Ion Ratio Lower Upper
75 100
77 1.0 20.5 61.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 79.466 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX046571.D
Acq: 09 Jun 2025 12:16

Tgt Ion: 75 Resp: 49768
Ion Ratio Lower Upper
75 100
53 0.0 100.5 150.7#
89 0.0 37.0 55.6#





#90
 Hexachloroethane
 Concen: 0.200 ug/l
 RT: 12.701 min Scan# 11
 Delta R.T. 0.165 min
 Lab File: VX046571.D
 Acq: 09 Jun 2025 12:16

Instrument :
 MSVOA_X
 ClientSampleId :
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Tgt Ion:117 Resp: 217
 Ion Ratio Lower Upper
 117 100
 201 0.0 31.6 94.7#

