

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032725\
 Data File : VX045492.D
 Acq On : 27 Mar 2025 20:59
 Operator : JC/MD
 Sample : Q1645-04
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TP-4

Quant Time: Mar 28 01:38:37 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 28 06:45:16 2025
 Response via : Initial Calibration

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

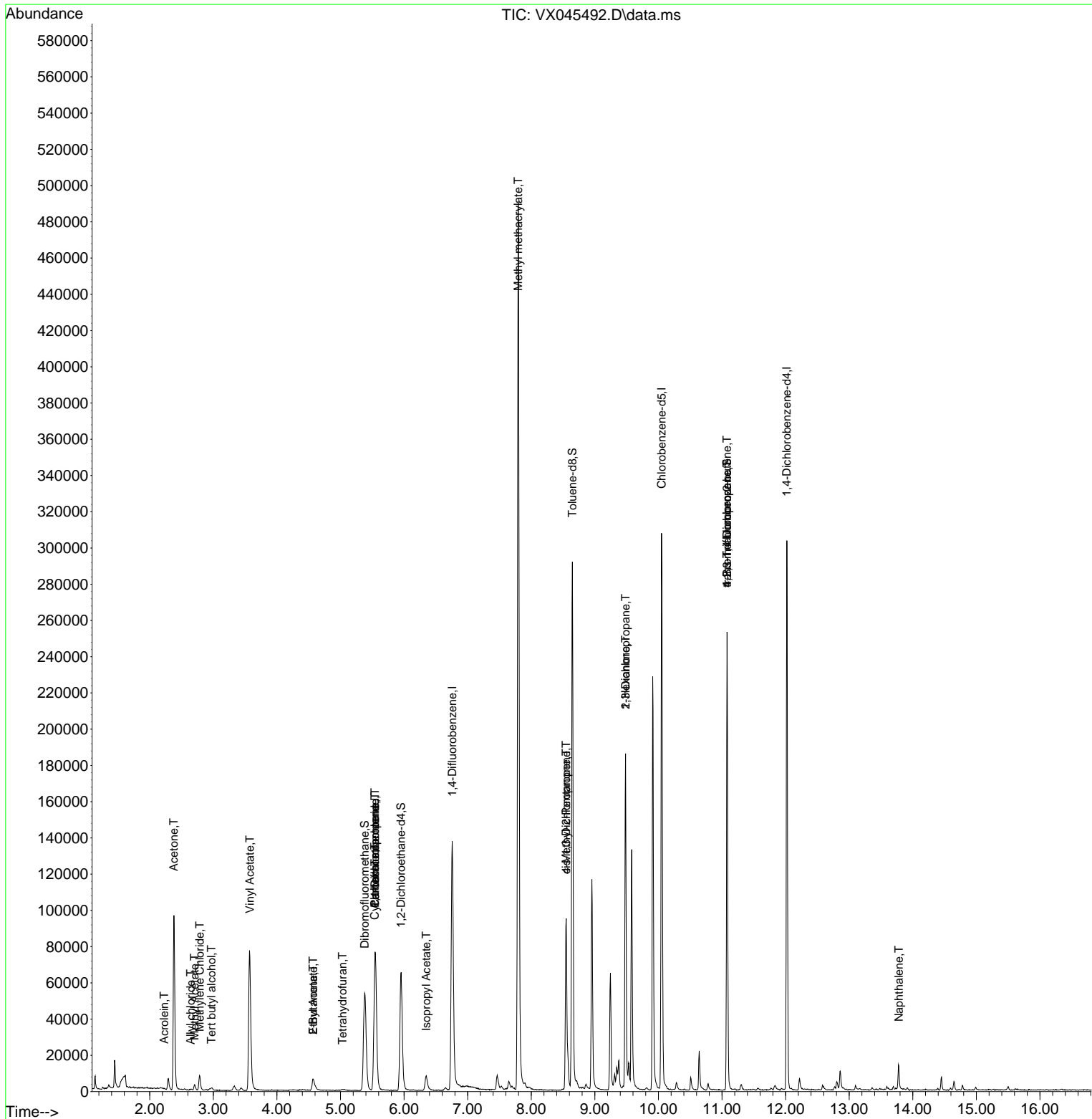
Internal Standards						
1) Pentafluorobenzene	5.544	168	67031	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	134223	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	124548	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	56464	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	64313	60.318	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	=	120.640%	
35) Dibromofluoromethane	5.379	113	47887	53.355	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	=	106.720%	
50) Toluene-d8	8.647	98	166681	51.227	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	=	102.460%	
62) 4-Bromofluorobenzene	11.079	95	63274	58.684	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	=	117.360%	
Target Compounds						
						Qvalue
11) Tert butyl alcohol	2.971	59	1763	8.729	ug/l #	82
13) Acrolein	2.227	56	236	1.011	ug/l #	77
14) Allyl chloride	2.642	41	780	0.532	ug/l #	56
16) Acetone	2.380	43	103981	210.192	ug/l	97
18) Methyl Acetate	2.703	43	3855	3.239	ug/l	95
20) Methylene Chloride	2.788	84	3765	3.842	ug/l	89
23) Vinyl Acetate	3.575	43	1402	0.563	ug/l #	73
25) 2-Butanone	4.568	43	13199	17.725	ug/l	96
29) Tetrahydrofuran	5.032	42	480	0.960	ug/l #	34
31) Cyclohexane	5.538	56	2021	1.393	ug/l #	29
36) 1,1-Dichloropropene	5.544	75	6612	5.372	ug/l #	51
37) Ethyl Acetate	4.568	43	13199	8.322	ug/l #	70
38) Carbon Tetrachloride	5.544	117	7916	6.335	ug/l #	16
43) Isopropyl Acetate	6.348	43	12908	5.504	ug/l	94
48) Methyl methacrylate	7.793	41	47375	40.264	ug/l #	49
51) 4-Methyl-2-Pentanone	8.549	43	42600	27.052	ug/l #	47
54) cis-1,3-Dichloropropene	8.549	75	14809	10.965	ug/l #	72
57) 1,3-Dichloropropane	9.482	76	1614	0.993	ug/l #	43
59) 2-Hexanone	9.482	43	23017	20.173	ug/l #	54
76) 1,2,3-Trichloropropane	11.079	75	35737	27.193	ug/l #	36
81) trans-1,4-Dichloro-2-b...	11.079	75	35737	93.059	ug/l #	6
95) Naphthalene	13.780	128	9031	2.218	ug/l	98

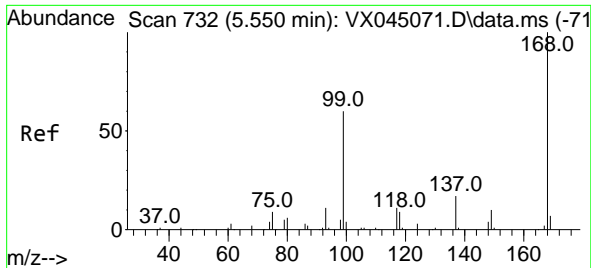
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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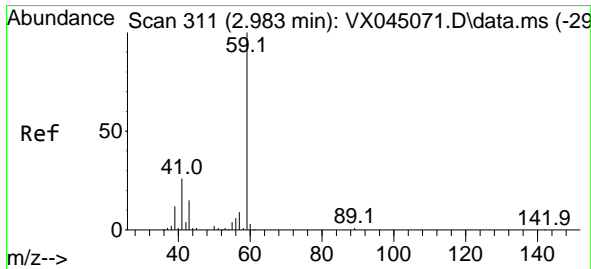
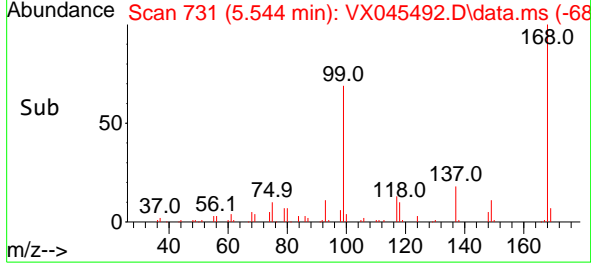
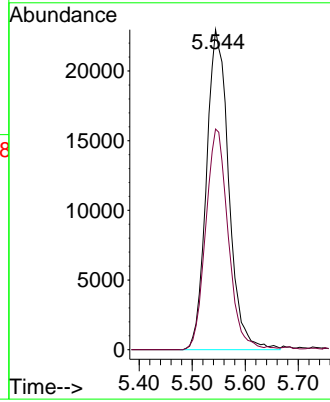
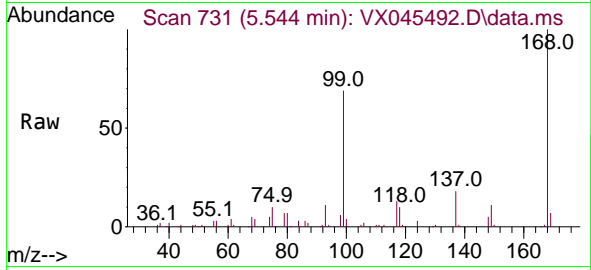




#1
 Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 5.544 min Scan# 71
 Delta R.T. -0.006 min
 Lab File: VX045492.D
 Acq: 27 Mar 2025 20:59

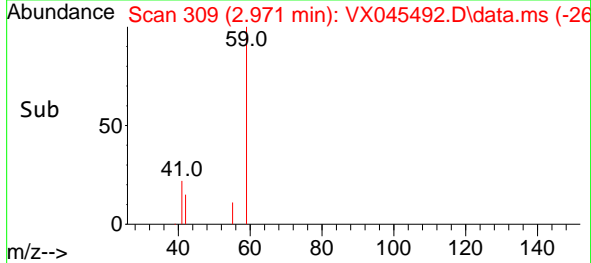
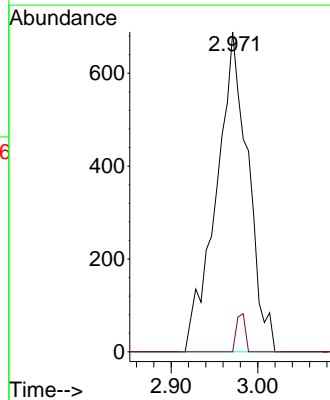
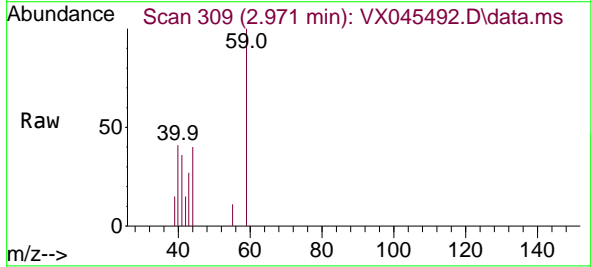
Instrument : MSVOA_X
 ClientSampleId : TP-4

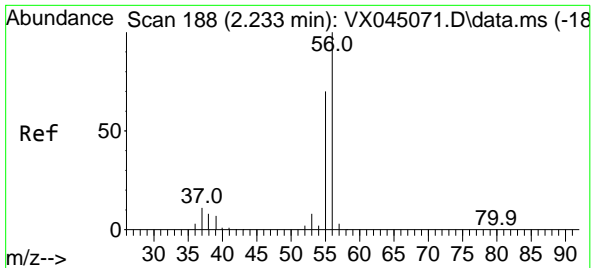
Tgt Ion:168 Resp: 67031
 Ion Ratio Lower Upper
 168 100
 99 69.0 48.2 72.4



#11
 Tert butyl alcohol
 Concen: 8.729 ug/l
 RT: 2.971 min Scan# 309
 Delta R.T. -0.012 min
 Lab File: VX045492.D
 Acq: 27 Mar 2025 20:59

Tgt Ion: 59 Resp: 1763
 Ion Ratio Lower Upper
 59 100
 57 3.2 7.8 11.8#

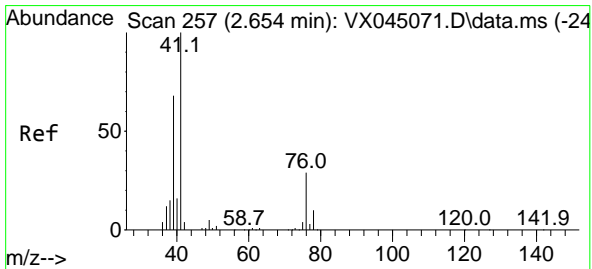
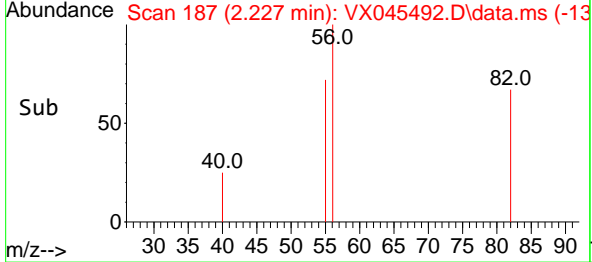
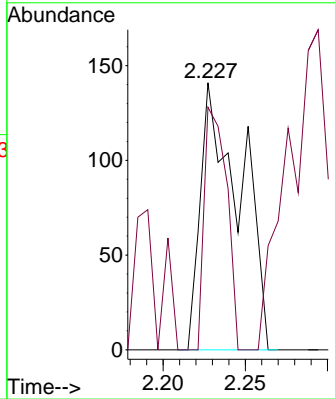
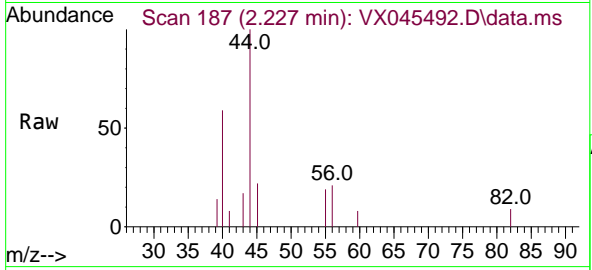




#13
 Acrolein
 Concen: 1.011 ug/l
 RT: 2.227 min Scan# 187
 Delta R.T. -0.006 min
 Lab File: VX045492.D
 Acq: 27 Mar 2025 20:59

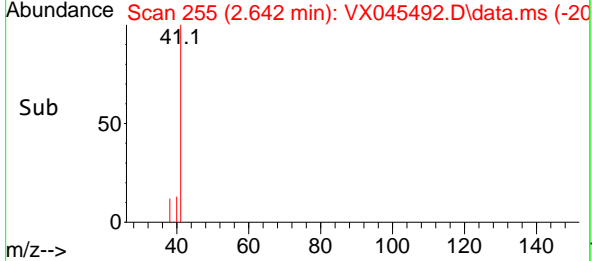
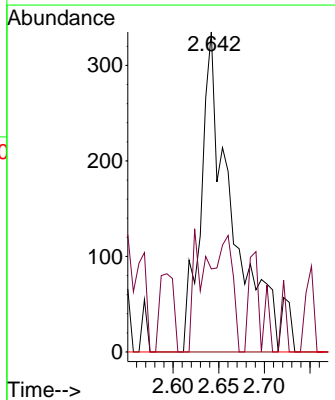
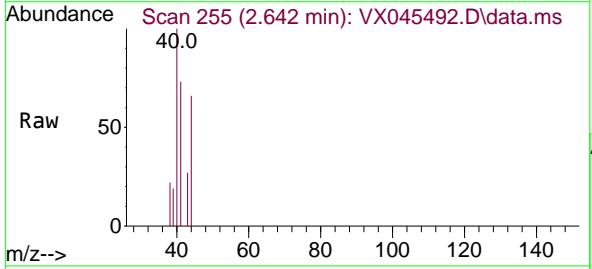
Instrument : MSVOA_X
 ClientSampleId : TP-4

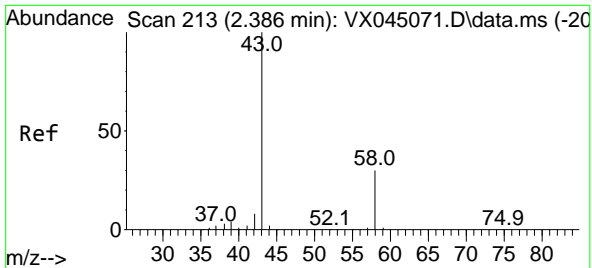
Tgt Ion: 56 Resp: 236
 Ion Ratio Lower Upper
 56 100
 55 51.3 56.2 84.4#



#14
 Allyl chloride
 Concen: 0.532 ug/l
 RT: 2.642 min Scan# 255
 Delta R.T. -0.012 min
 Lab File: VX045492.D
 Acq: 27 Mar 2025 20:59

Tgt Ion: 41 Resp: 780
 Ion Ratio Lower Upper
 41 100
 39 36.5 53.8 80.8#
 76 0.0 25.2 37.8#

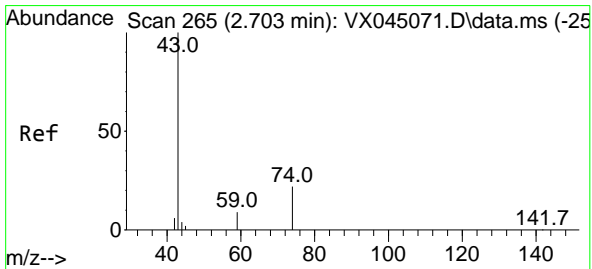
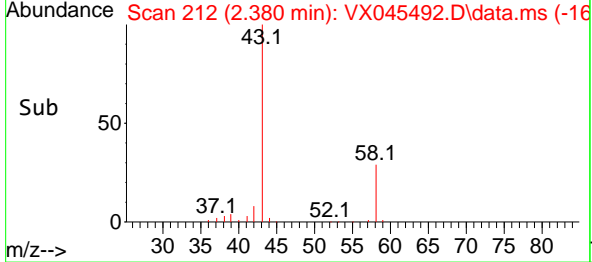
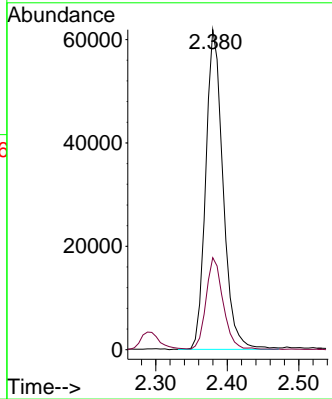
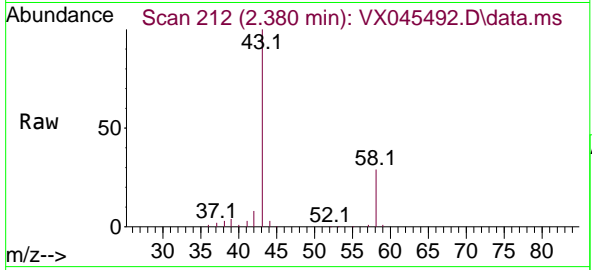




#16
 Acetone
 Concen: 210.192 ug/l
 RT: 2.380 min Scan# 212
 Delta R.T. -0.006 min
 Lab File: VX045492.D
 Acq: 27 Mar 2025 20:59

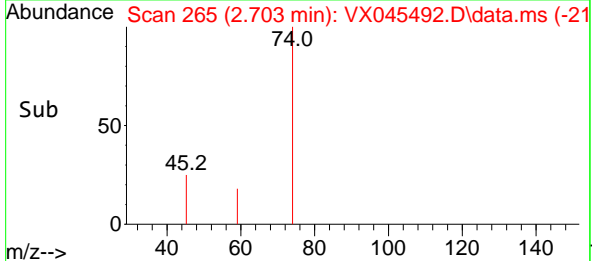
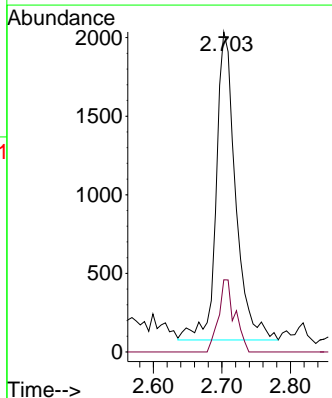
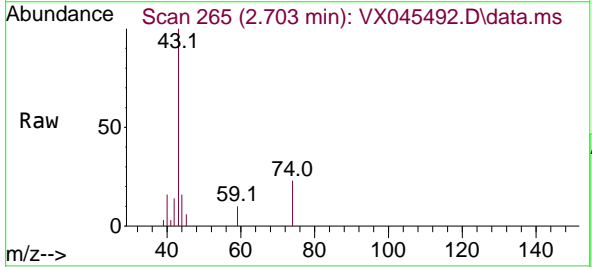
Instrument : MSVOA_X
 ClientSampleId : TP-4

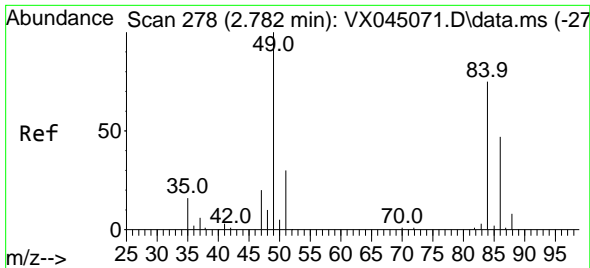
Tgt Ion: 43 Resp: 103981
 Ion Ratio Lower Upper
 43 100
 58 28.6 24.2 36.4



#18
 Methyl Acetate
 Concen: 3.239 ug/l
 RT: 2.703 min Scan# 265
 Delta R.T. 0.000 min
 Lab File: VX045492.D
 Acq: 27 Mar 2025 20:59

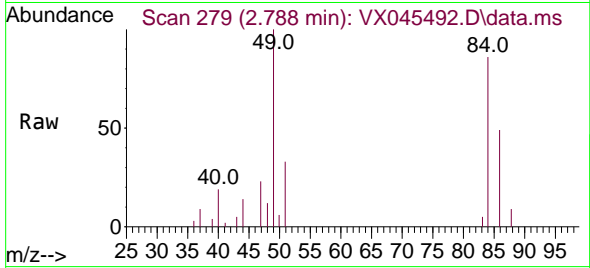
Tgt Ion: 43 Resp: 3855
 Ion Ratio Lower Upper
 43 100
 74 19.5 17.4 26.2



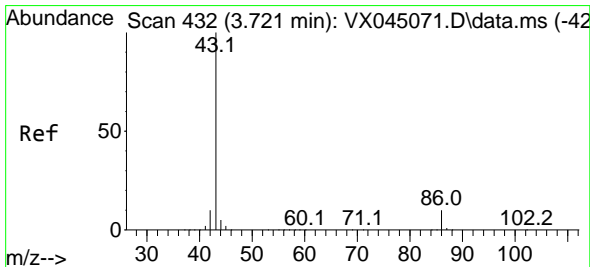
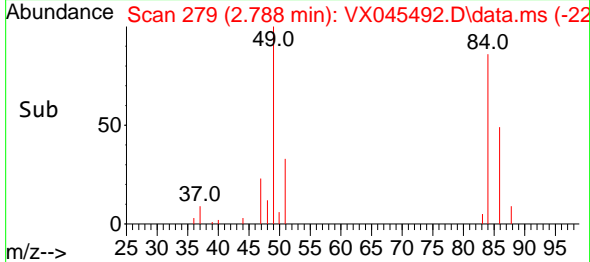
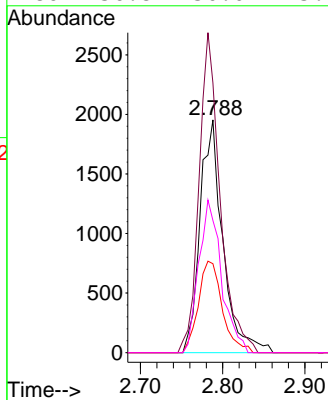


#20
 Methylene Chloride
 Concen: 3.842 ug/l
 RT: 2.788 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VX045492.D
 Acq: 27 Mar 2025 20:59

Instrument :
 MSVOA_X
 ClientSampleId :
 TP-4

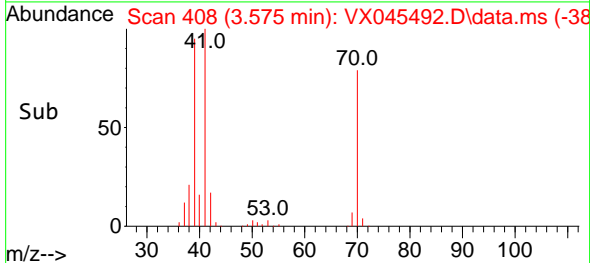
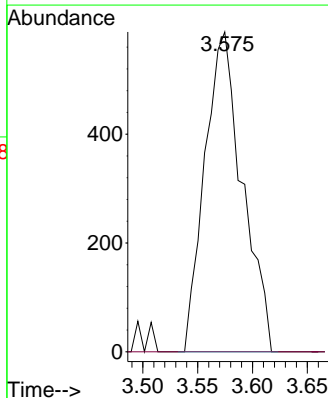
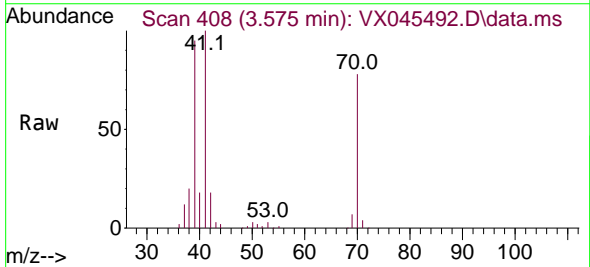


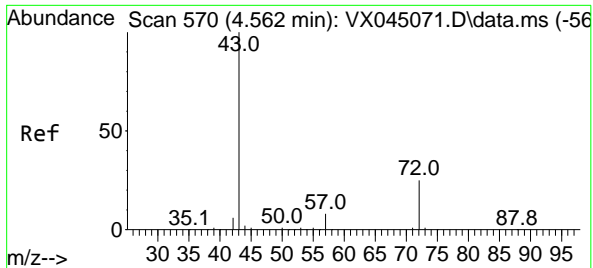
Tgt Ion	Resp	Ion Ratio	Lower	Upper
84	3765	100		
49	115.9	106.5	159.7	
51	38.2	32.1	48.1	
86	56.8	50.0	75.0	



#23
 Vinyl Acetate
 Concen: 0.563 ug/l
 RT: 3.575 min Scan# 408
 Delta R.T. -0.146 min
 Lab File: VX045492.D
 Acq: 27 Mar 2025 20:59

Tgt Ion	Resp	Ion Ratio	Lower	Upper
43	1402	100		
86	0.0	8.1	12.1#	

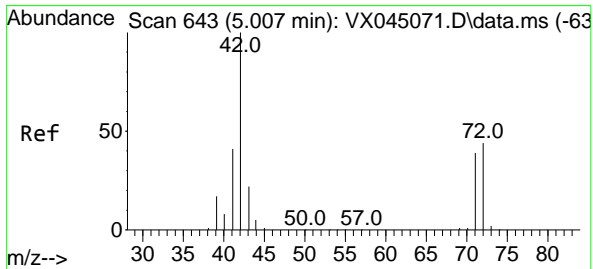
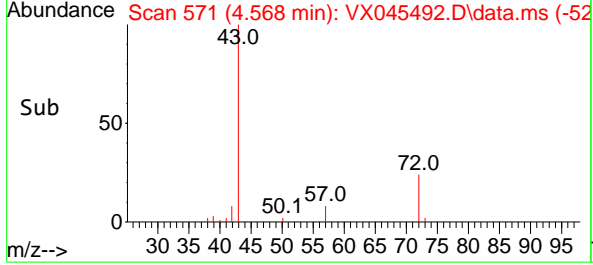
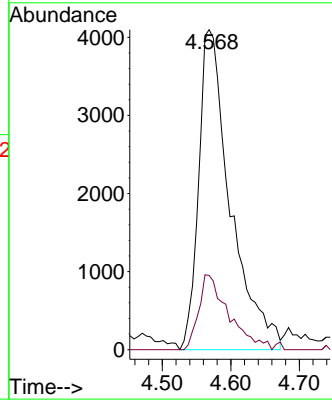
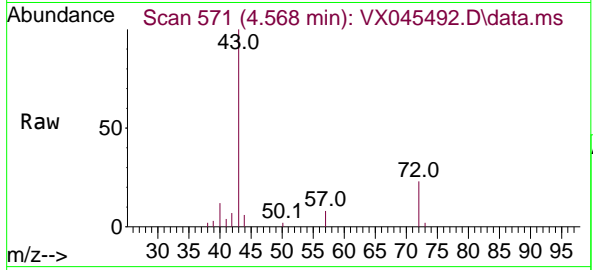




#25
 2-Butanone
 Concen: 17.725 ug/l
 RT: 4.568 min Scan# 51
 Delta R.T. 0.006 min
 Lab File: VX045492.D
 Acq: 27 Mar 2025 20:59

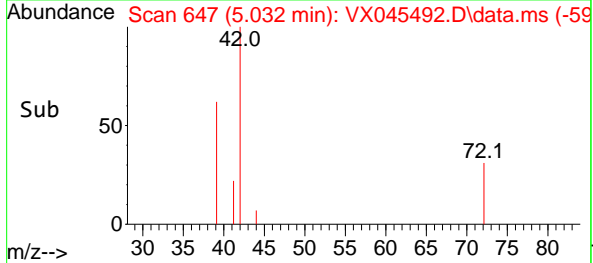
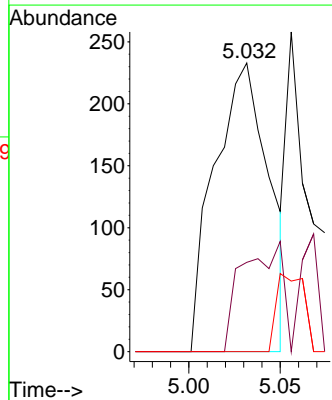
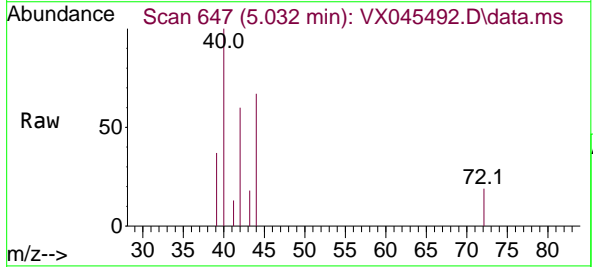
Instrument : MSVOA_X
 ClientSampleId : TP-4

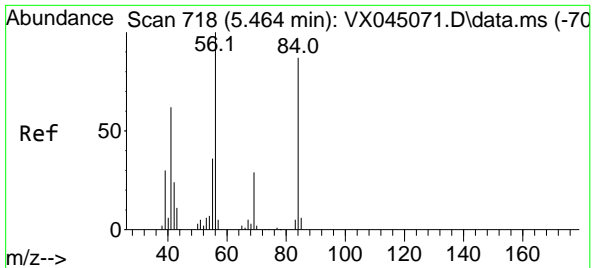
Tgt Ion	Resp	Lower	Upper
43	13199		
72	23.2	20.0	30.0



#29
 Tetrahydrofuran
 Concen: 0.960 ug/l
 RT: 5.032 min Scan# 647
 Delta R.T. 0.024 min
 Lab File: VX045492.D
 Acq: 27 Mar 2025 20:59

Tgt Ion	Resp	Lower	Upper
42	480		
72	0.0	34.1	51.1#
71	0.0	31.4	47.0#



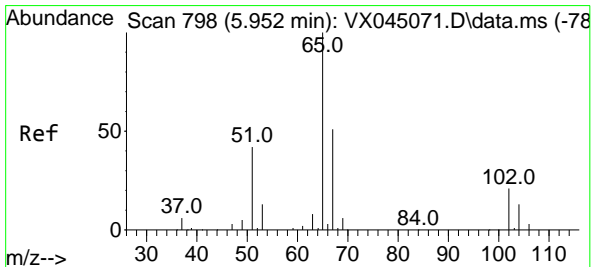
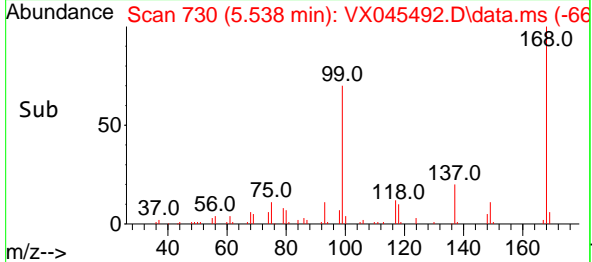
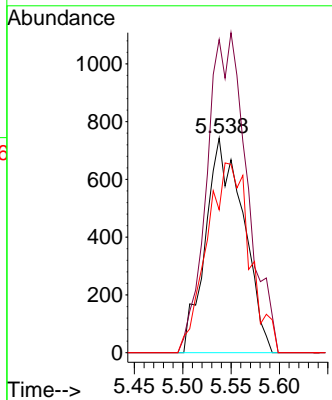
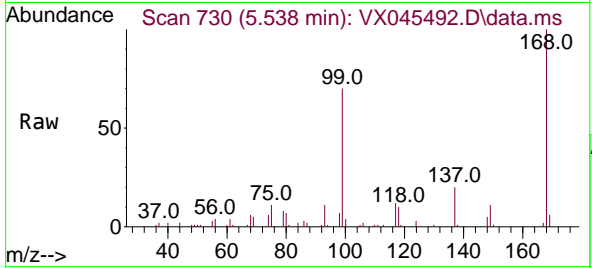


#31
 Cyclohexane
 Concen: 1.393 ug/l
 RT: 5.538 min Scan# 718
 Delta R.T. 0.073 min
 Lab File: VX045492.D
 Acq: 27 Mar 2025 20:59

Instrument : MSVOA_X
 ClientSampleId : TP-4

Tgt Ion: 56 Resp: 2021

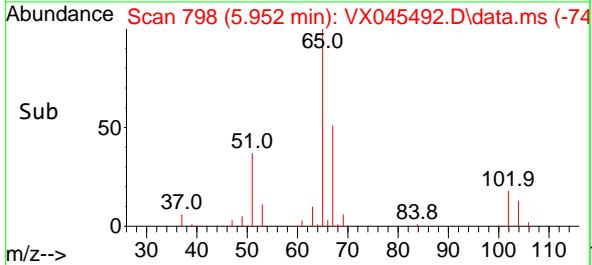
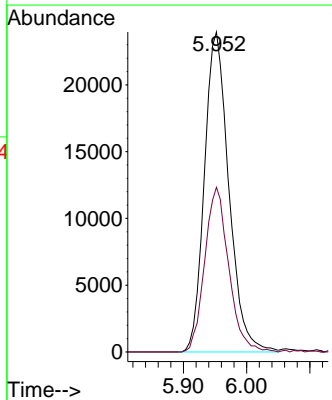
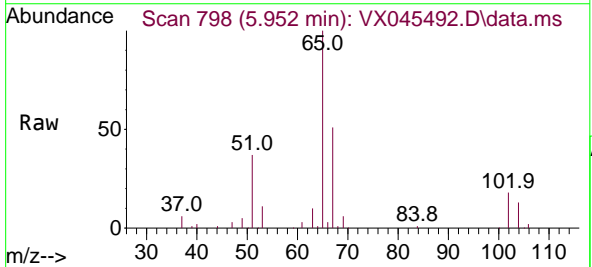
Ion	Ratio	Lower	Upper
56	100		
69	145.9	23.4	35.2#
84	66.6	69.4	104.2#

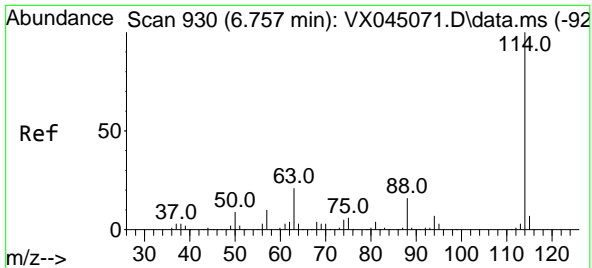


#33
 1,2-Dichloroethane-d4
 Concen: 60.318 ug/l
 RT: 5.952 min Scan# 798
 Delta R.T. 0.000 min
 Lab File: VX045492.D
 Acq: 27 Mar 2025 20:59

Tgt Ion: 65 Resp: 64313

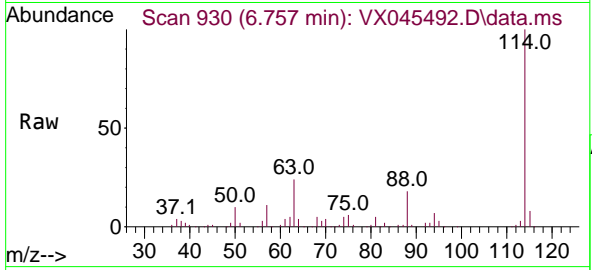
Ion	Ratio	Lower	Upper
65	100		
67	50.6	0.0	106.2





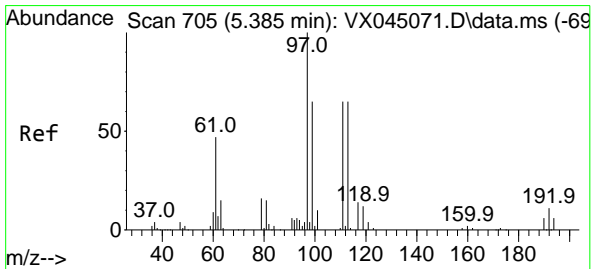
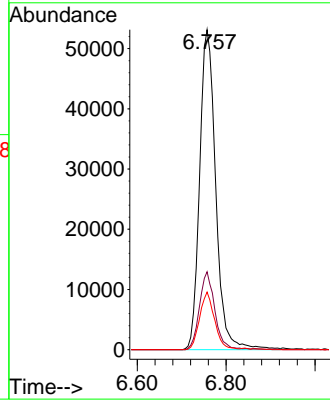
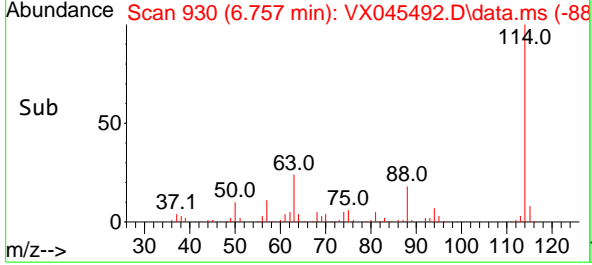
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.757 min Scan# 91
 Delta R.T. 0.000 min
 Lab File: VX045492.D
 Acq: 27 Mar 2025 20:59

Instrument :
 MSVOA_X
 ClientSampleId :
 TP-4

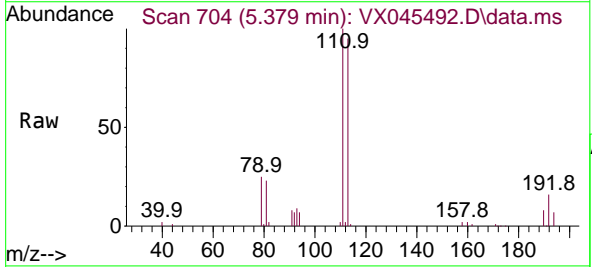


Tgt Ion:114 Resp: 134223

Ion	Ratio	Lower	Upper
114	100		
63	24.4	0.0	41.8
88	18.0	0.0	32.8

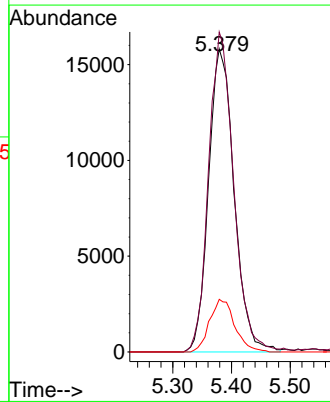
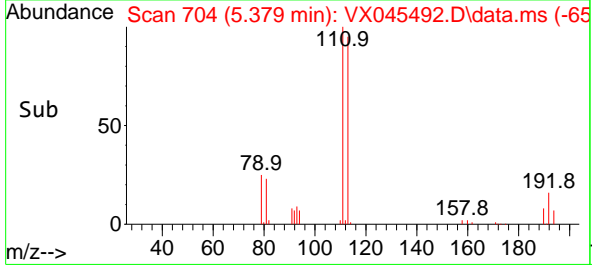


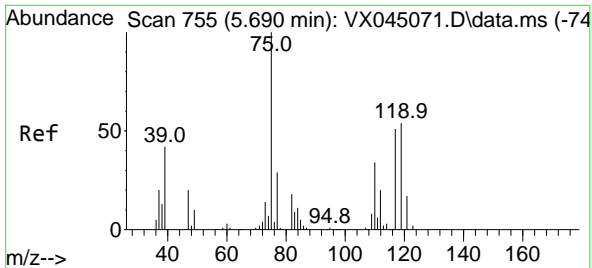
#35
 Dibromofluoromethane
 Concen: 53.355 ug/l
 RT: 5.379 min Scan# 704
 Delta R.T. -0.006 min
 Lab File: VX045492.D
 Acq: 27 Mar 2025 20:59



Tgt Ion:113 Resp: 47887

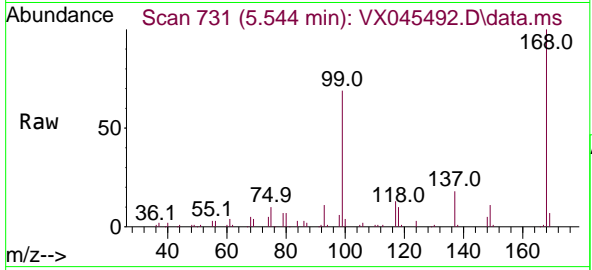
Ion	Ratio	Lower	Upper
113	100		
111	103.7	81.8	122.6
192	17.1	14.3	21.5





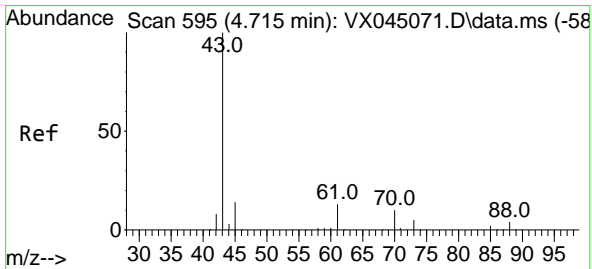
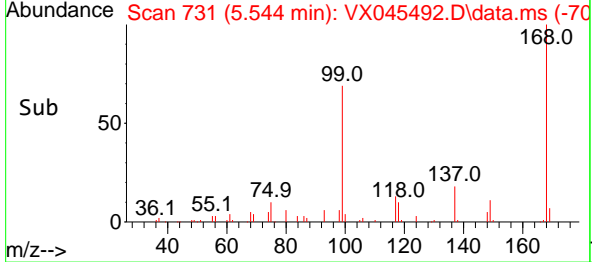
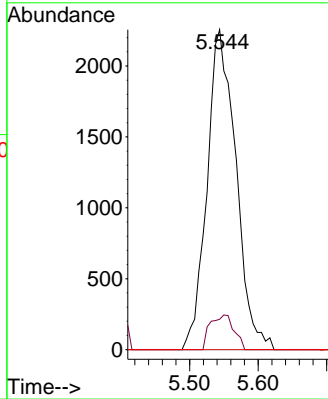
#36
 1,1-Dichloropropene
 Concen: 5.372 ug/l
 RT: 5.544 min Scan# 711
 Delta R.T. -0.146 min
 Lab File: VX045492.D
 Acq: 27 Mar 2025 20:59

Instrument : MSVOA_X
 ClientSampleId : TP-4



Tgt Ion: 75 Resp: 6612

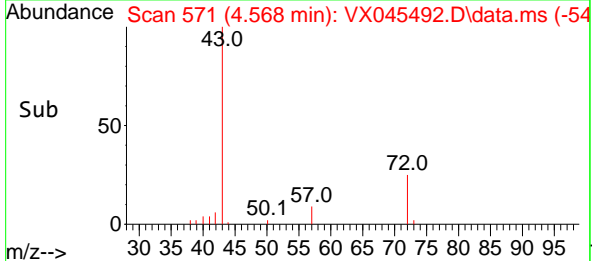
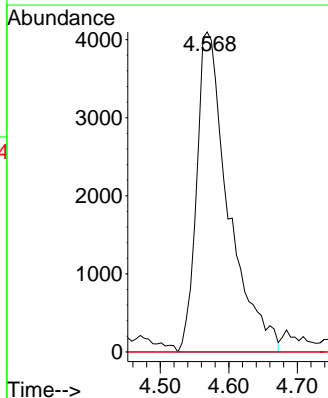
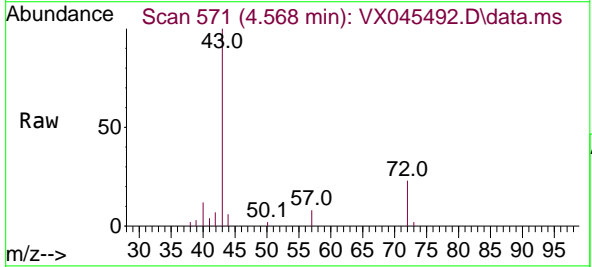
Ion	Ratio	Lower	Upper
75	100		
110	8.9	16.9	50.6#
77	0.0	24.5	36.7#

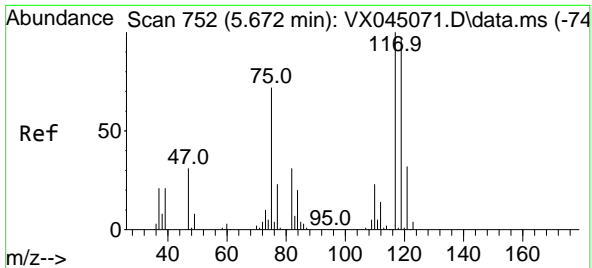


#37
 Ethyl Acetate
 Concen: 8.322 ug/l
 RT: 4.568 min Scan# 571
 Delta R.T. -0.146 min
 Lab File: VX045492.D
 Acq: 27 Mar 2025 20:59

Tgt Ion: 43 Resp: 13199

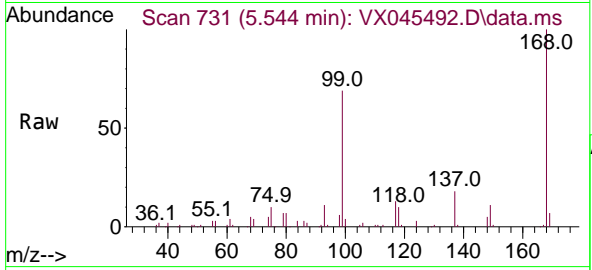
Ion	Ratio	Lower	Upper
43	100		
61	0.0	10.8	16.2#
70	0.0	7.7	11.5#



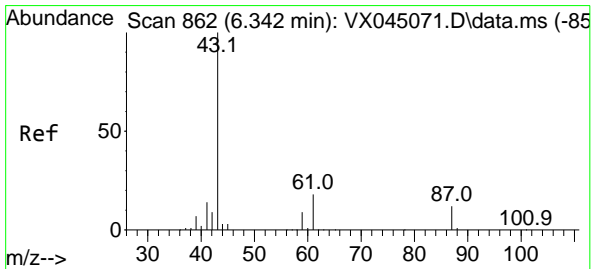
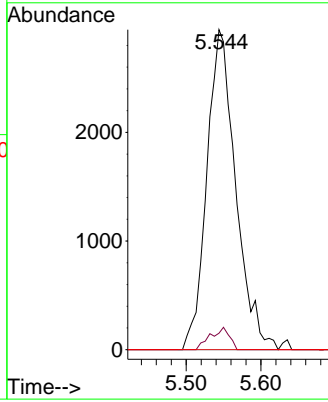
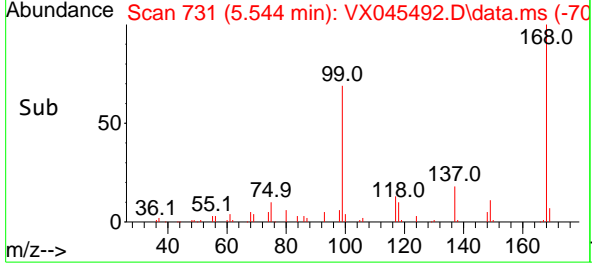


#38
 Carbon Tetrachloride
 Concen: 6.335 ug/l
 RT: 5.544 min Scan# 711
 Delta R.T. -0.128 min
 Lab File: VX045492.D
 Acq: 27 Mar 2025 20:59

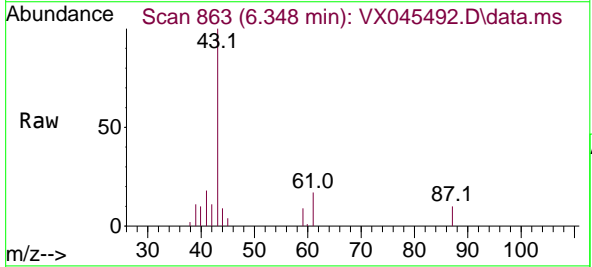
Instrument : MSVOA_X
 ClientSampleId : TP-4



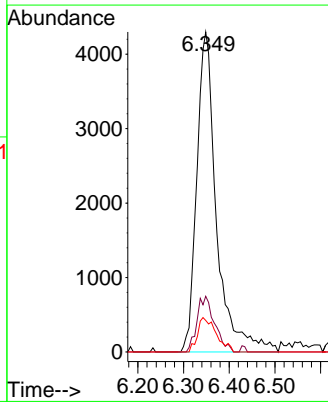
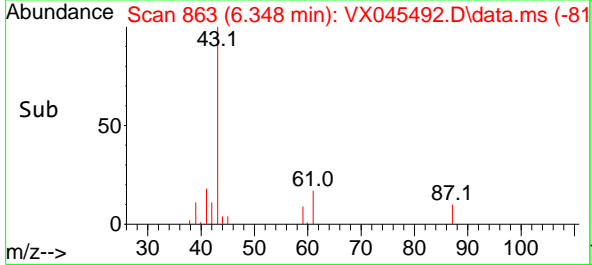
Tgt Ion:117 Resp: 7916
 Ion Ratio Lower Upper
 117 100
 119 5.2 76.7 115.1#
 121 0.0 25.5 38.3#

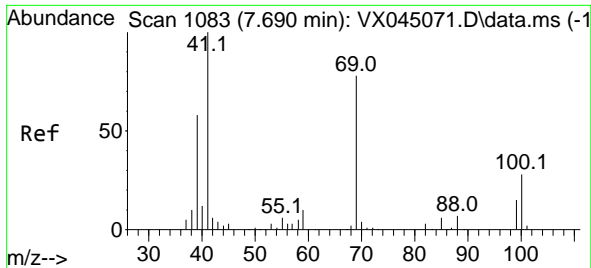


#43
 Isopropyl Acetate
 Concen: 5.504 ug/l
 RT: 6.348 min Scan# 863
 Delta R.T. 0.006 min
 Lab File: VX045492.D
 Acq: 27 Mar 2025 20:59



Tgt Ion: 43 Resp: 12908
 Ion Ratio Lower Upper
 43 100
 61 15.6 14.9 22.3
 87 10.1 9.4 14.2

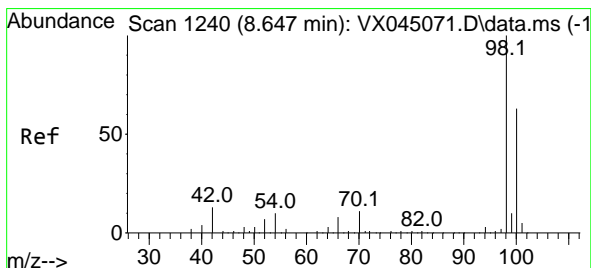
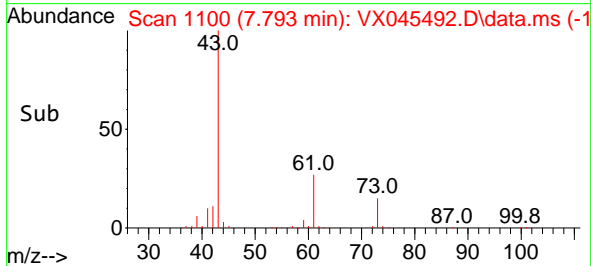
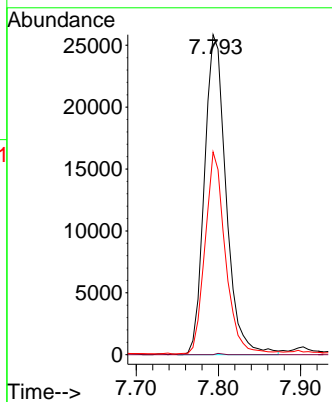
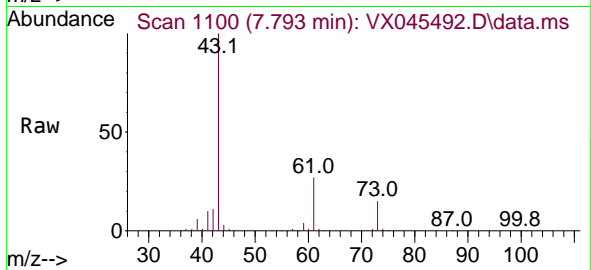




#48
 Methyl methacrylate
 Concen: 40.264 ug/l
 RT: 7.793 min Scan# 1100
 Delta R.T. 0.104 min
 Lab File: VX045492.D
 Acq: 27 Mar 2025 20:59

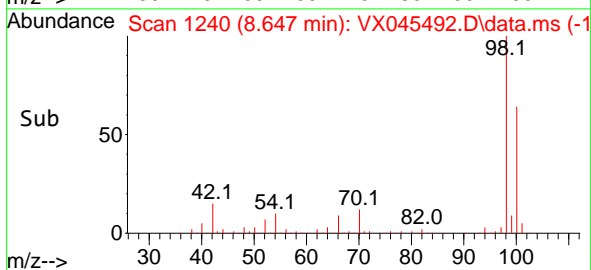
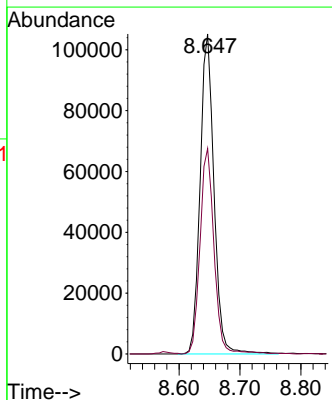
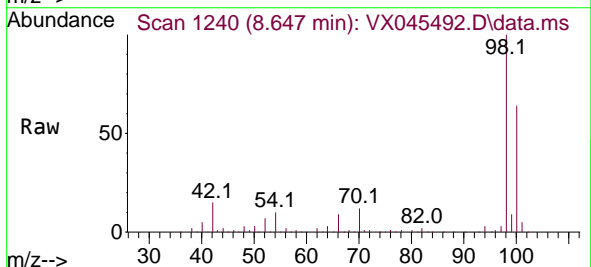
Instrument : MSVOA_X
 ClientSampleId : TP-4

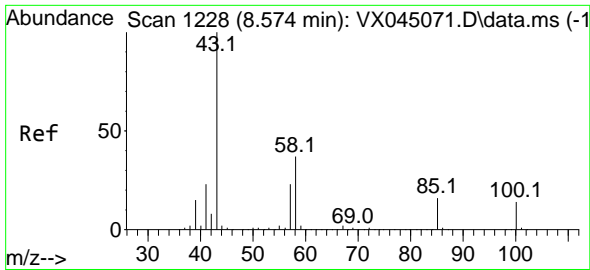
Tgt Ion	Resp	Lower	Upper
41	47375		
69	0.1	63.0	94.6#
39	59.3	47.5	71.3



#50
 Toluene-d8
 Concen: 51.227 ug/l
 RT: 8.647 min Scan# 1240
 Delta R.T. 0.000 min
 Lab File: VX045492.D
 Acq: 27 Mar 2025 20:59

Tgt Ion	Resp	Lower	Upper
98	166681		
100	64.8	52.0	78.0

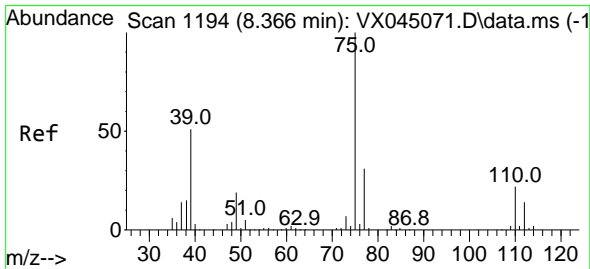
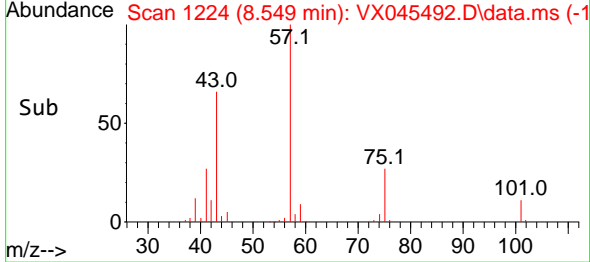
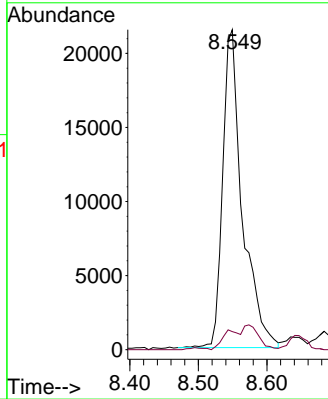
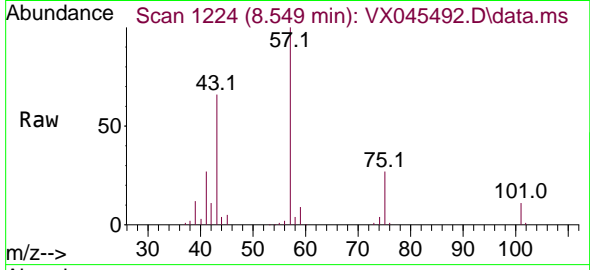




#51
 4-Methyl-2-Pentanone
 Concen: 27.052 ug/l
 RT: 8.549 min Scan# 1124
 Delta R.T. -0.024 min
 Lab File: VX045492.D
 Acq: 27 Mar 2025 20:59

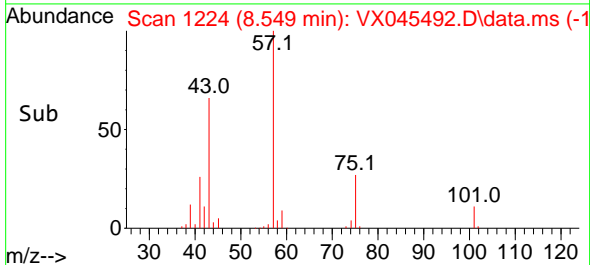
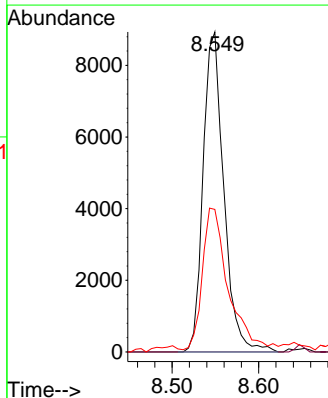
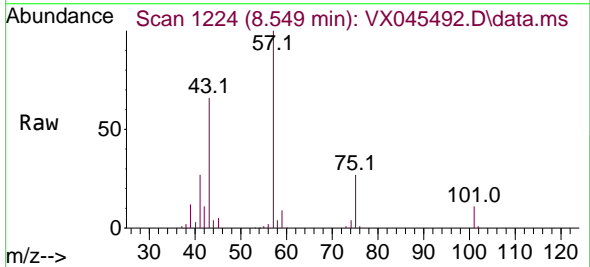
Instrument : MSVOA_X
 ClientSampleId : TP-4

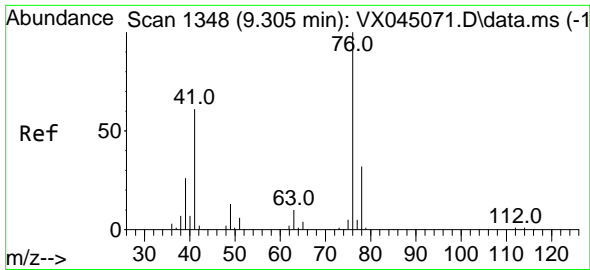
Tgt Ion: 43 Resp: 42600
 Ion Ratio Lower Upper
 43 100
 58 5.4 29.2 43.8#



#54
 cis-1,3-Dichloropropene
 Concen: 10.965 ug/l
 RT: 8.549 min Scan# 1224
 Delta R.T. 0.183 min
 Lab File: VX045492.D
 Acq: 27 Mar 2025 20:59

Tgt Ion: 75 Resp: 14809
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.7 37.1#
 39 43.6 40.7 61.1

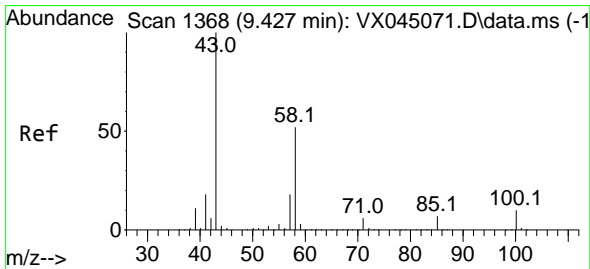
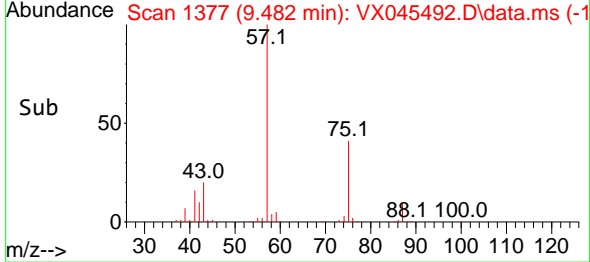
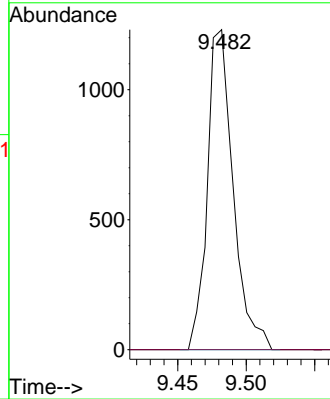
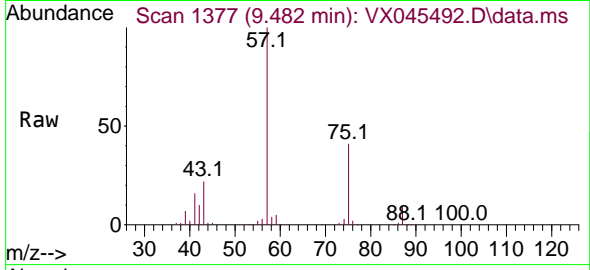




#57
 1,3-Dichloropropane
 Concen: 0.993 ug/l
 RT: 9.482 min Scan# 1377
 Delta R.T. 0.177 min
 Lab File: VX045492.D
 Acq: 27 Mar 2025 20:59

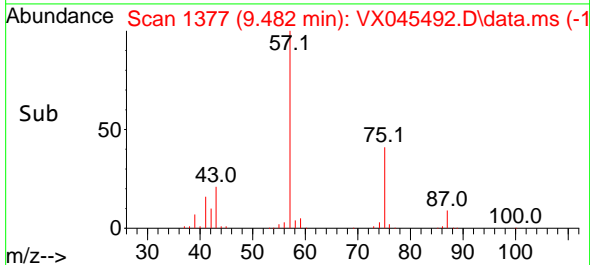
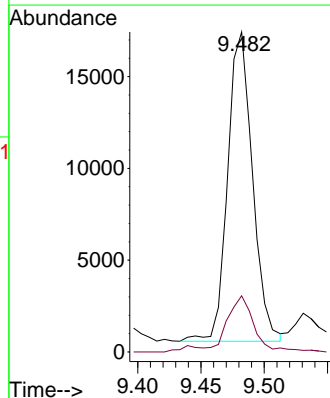
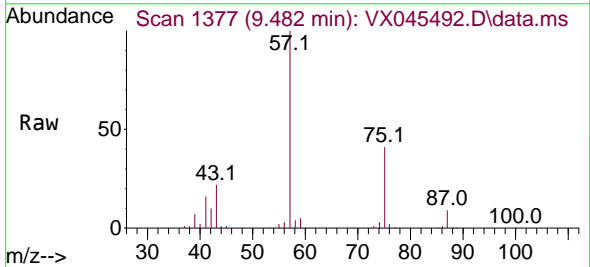
Instrument : MSVOA_X
 ClientSampleId : TP-4

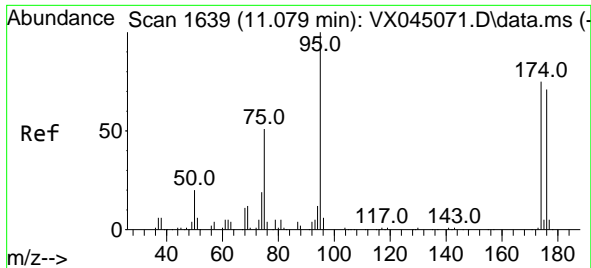
Tgt Ion: 76 Resp: 1614
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.5 38.3#



#59
 2-Hexanone
 Concen: 20.173 ug/l
 RT: 9.482 min Scan# 1377
 Delta R.T. 0.055 min
 Lab File: VX045492.D
 Acq: 27 Mar 2025 20:59

Tgt Ion: 43 Resp: 23017
 Ion Ratio Lower Upper
 43 100
 58 19.7 25.9 77.6#



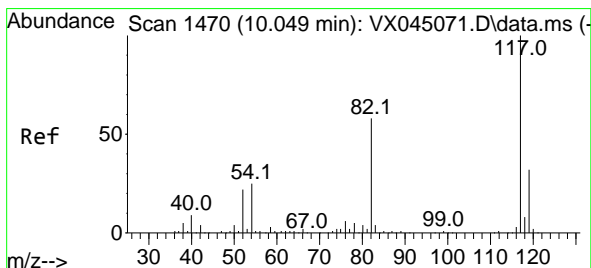
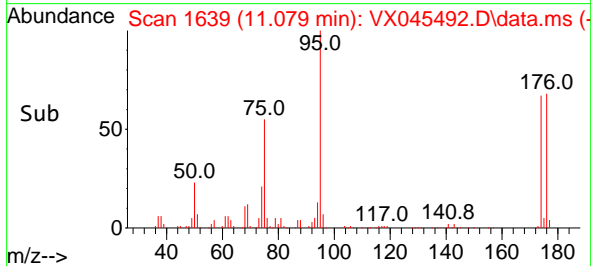
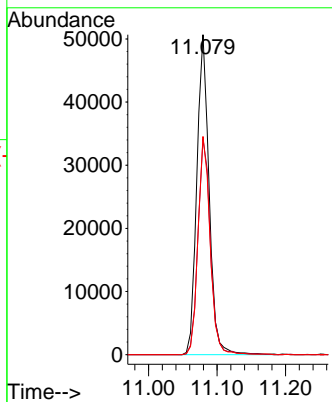
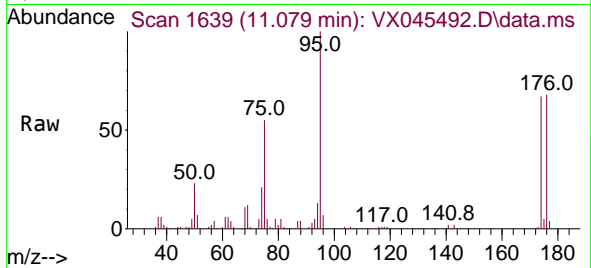


#62
 4-Bromofluorobenzene
 Concen: 58.684 ug/l
 RT: 11.079 min Scan# 1639
 Delta R.T. 0.000 min
 Lab File: VX045492.D
 Acq: 27 Mar 2025 20:59

Instrument : MSVOA_X
 ClientSampleId : TP-4

Tgt Ion: 95 Resp: 63274

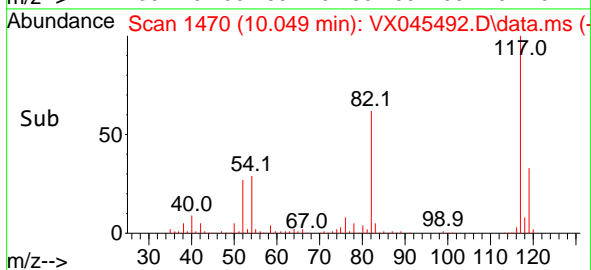
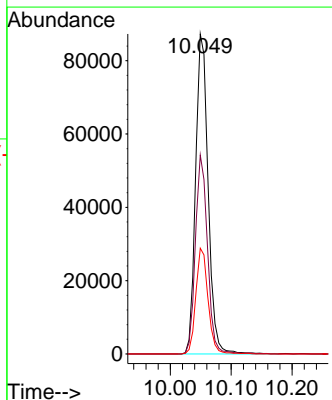
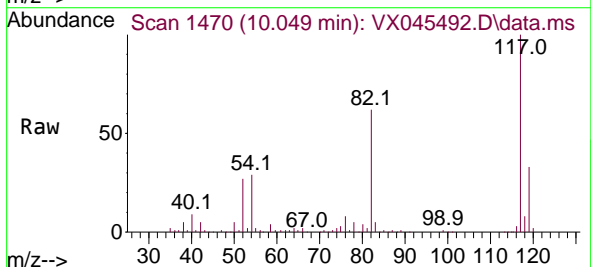
Ion	Ratio	Lower	Upper
95	100		
174	68.5	0.0	148.2
176	67.3	0.0	141.4

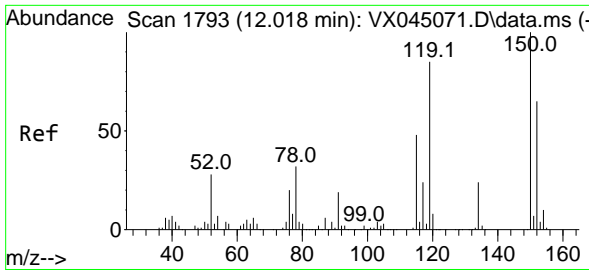


#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 10.049 min Scan# 1470
 Delta R.T. 0.000 min
 Lab File: VX045492.D
 Acq: 27 Mar 2025 20:59

Tgt Ion: 117 Resp: 124548

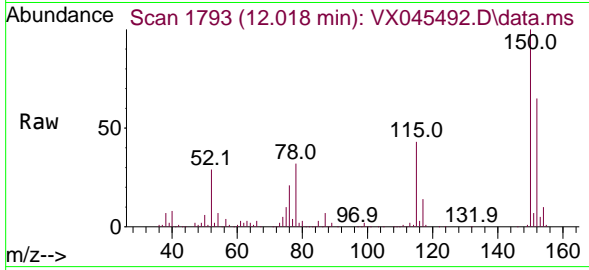
Ion	Ratio	Lower	Upper
117	100		
82	62.2	46.3	69.5
119	33.0	25.7	38.5



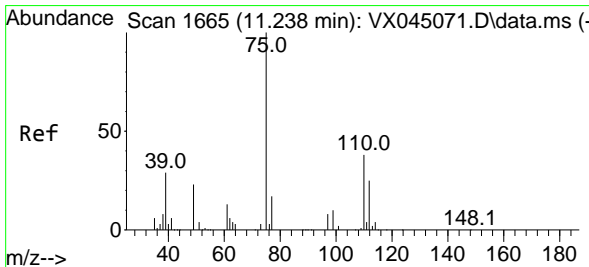
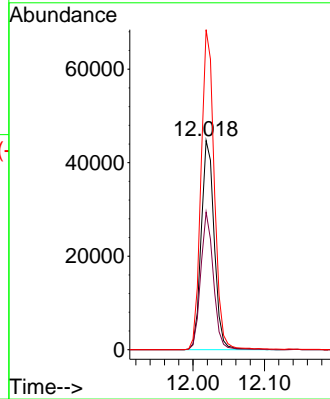
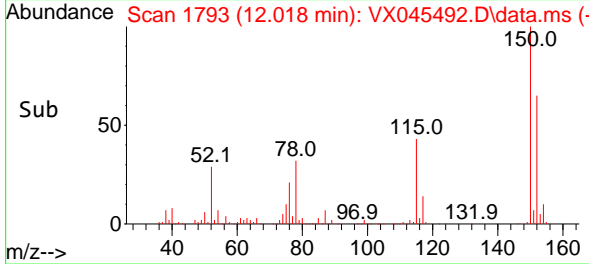


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.018 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: VX045492.D
 Acq: 27 Mar 2025 20:59

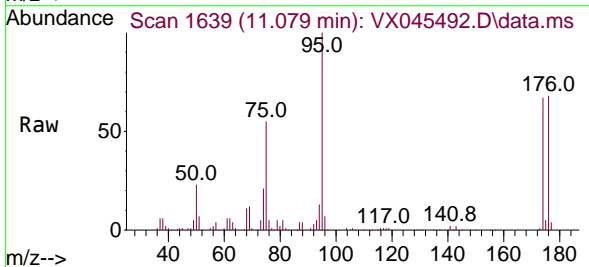
Instrument :
 MSVOA_X
 ClientSampleId :
 TP-4



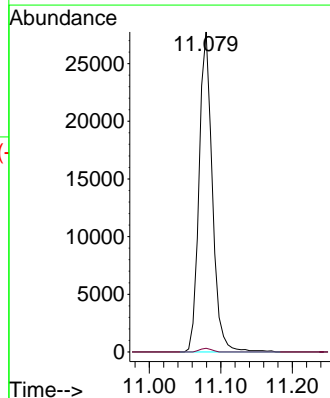
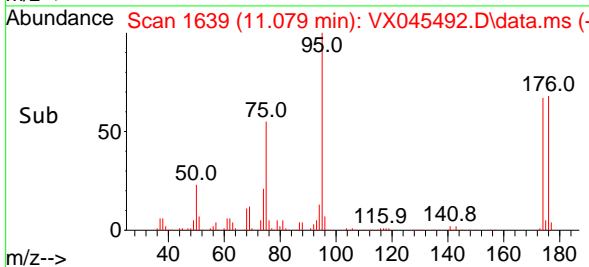
Tgt Ion:152 Resp: 56464
 Ion Ratio Lower Upper
 152 100
 115 64.0 44.2 132.6
 150 155.9 0.0 349.0

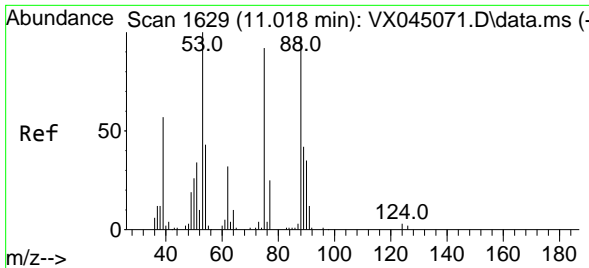


#76
 1,2,3-Trichloropropane
 Concen: 27.193 ug/l
 RT: 11.079 min Scan# 1639
 Delta R.T. -0.158 min
 Lab File: VX045492.D
 Acq: 27 Mar 2025 20:59



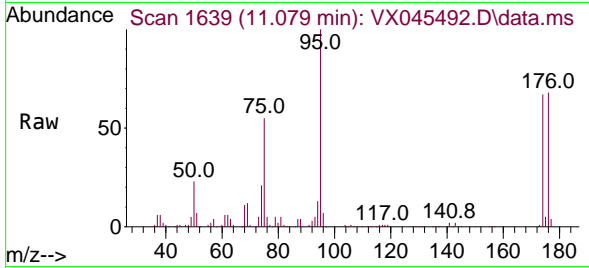
Tgt Ion: 75 Resp: 35737
 Ion Ratio Lower Upper
 75 100
 77 1.0 20.7 62.1#



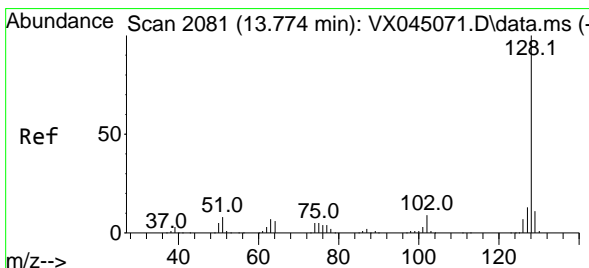
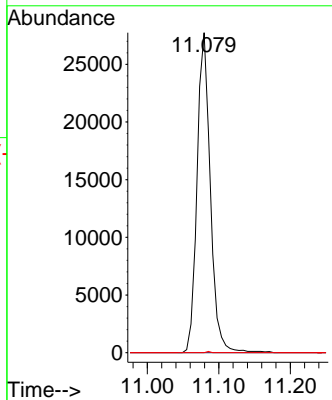
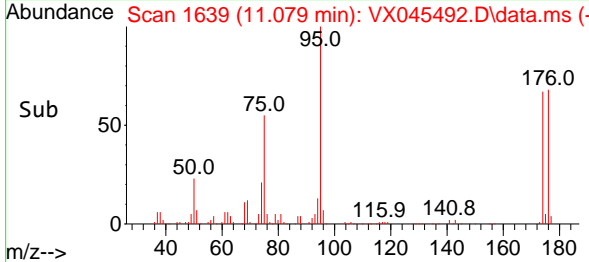


#81
 trans-1,4-Dichloro-2-butene
 Concen: 93.059 ug/l
 RT: 11.079 min Scan# 1639
 Delta R.T. 0.061 min
 Lab File: VX045492.D
 Acq: 27 Mar 2025 20:59

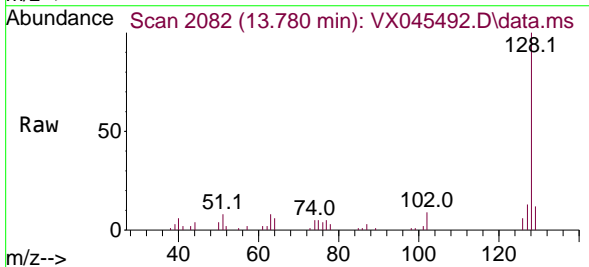
Instrument : MSVOA_X
 ClientSampleId : TP-4



Tgt Ion: 75 Resp: 35737
 Ion Ratio Lower Upper
 75 100
 53 0.0 88.5 132.7#
 89 0.1 36.2 54.4#



#95
 Naphthalene
 Concen: 2.218 ug/l
 RT: 13.780 min Scan# 2082
 Delta R.T. 0.006 min
 Lab File: VX045492.D
 Acq: 27 Mar 2025 20:59



Tgt Ion: 128 Resp: 9031
 Ion Ratio Lower Upper
 128 100
 127 13.2 10.3 15.5
 129 12.3 8.7 13.1

