

Data Path : Z:\voasrv\HPCHEM1\MSVOA_R\Data\VR080425\
 Data File : VR026695.D
 Acq On : 4 Aug 2025 13:56
 Operator : SY/MD
 Sample : VR0804WBL01
 Misc : 5mL/MSVOA_R/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_R
 ClientSampleId :
 VR0804WBL01

Quant Time: Aug 05 02:45:53 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_R\methods\82R080425W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 05 02:27:49 2025
 Response via : Initial Calibration

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

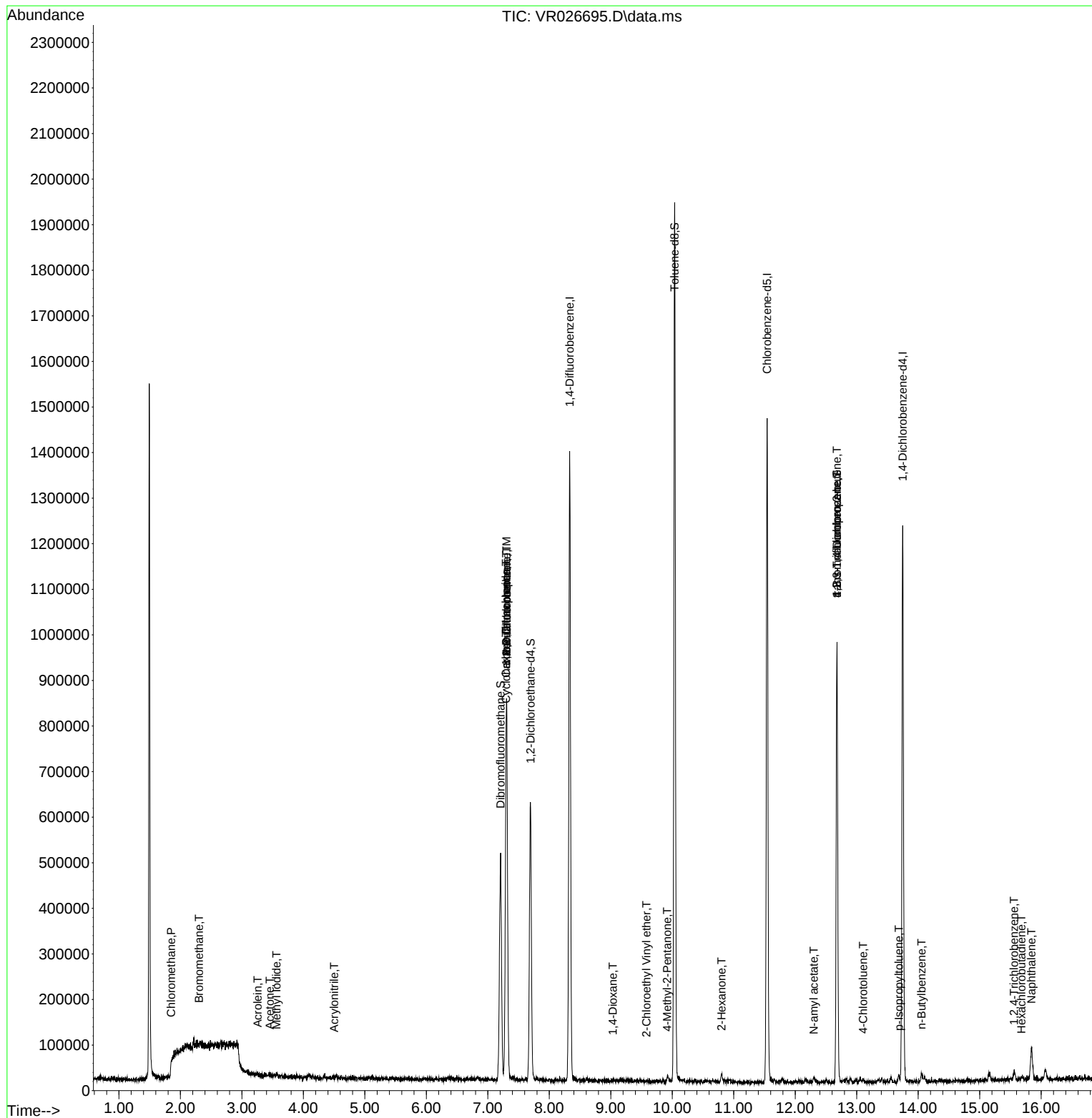
Internal Standards						
1) Pentafluorobenzene	7.308	168	658194	50.000	ug/l	0.00
33) 1,4-Difluorobenzene	8.331	114	1188421	50.000	ug/l	0.00
62) Chlorobenzene-d5	11.543	117	844931	50.000	ug/l	0.00
71) 1,4-Dichlorobenzene-d4	13.748	152	362743	50.000	ug/l	0.00
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	7.696	65	432757	51.948	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 103.900%			
34) Dibromofluoromethane	7.208	113	369010	50.202	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.400%			
49) Toluene-d8	10.038	98	1333542	50.639	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.280%			
61) 4-Bromofluorobenzene	12.679	95	349453	46.655	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 93.320%			
Target Compounds						Qvalue
3) Chloromethane	1.849	50	3740	0.524	ug/l #	53
5) Bromomethane	2.305	94	1895	0.534	ug/l #	36
10) Methyl Iodide	3.563	142	7262	1.062	ug/l #	63
13) Acrolein	3.258	56	2538	1.332	ug/l	87
15) Acrylonitrile	4.500	53	1702	0.329	ug/l #	41
16) Acetone	3.454	43	2053	0.525	ug/l #	28
30) Cyclohexane	7.295	56	6149	0.466	ug/l #	1
35) 1,1-Dichloropropene	7.301	75	59942	6.464	ug/l #	50
37) Carbon Tetrachloride	7.298	117	70407	9.323	ug/l #	19
41) 1,2-Dichloroethane	7.304	62	2582	0.304	ug/l #	1
48) 1,4-Dioxane	9.034	88	470	3.735	ug/l #	70
50) 4-Methyl-2-Pentanone	9.920	43	3217	0.345	ug/l	90
57) 2-Chloroethyl Vinyl ether	9.580	63	162	0.285	ug/l	91
58) 2-Hexanone	10.802	43	13098	2.085	ug/l	91
73) N-amyl acetate	12.304	43	4859	0.474	ug/l #	69
75) 1,2,3-Trichloropropane	12.679	75	165671	27.553	ug/l #	100
80) trans-1,4-Dichloro-2-b...	12.679	75	165671	80.249	ug/l #	16
81) 4-Chlorotoluene	13.103	91	5291	0.296	ug/l	96
85) p-Isopropyltoluene	13.687	119	5572	0.251	ug/l #	89
88) n-Butylbenzene	14.056	91	12184	0.594	ug/l	93
92) 1,2,4-Trichlorobenzene	15.561	180	4793	0.728	ug/l	81
93) Hexachlorobutadiene	15.676	225	831	0.388	ug/l	81
94) Naphthalene	15.840	128	77476	3.838	ug/l #	94

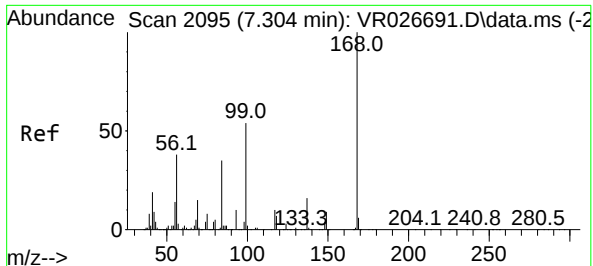
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : VR026695.D
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Quant Title : SW846 8260
QLast Update : Tue Aug 05 02:27:49 2025
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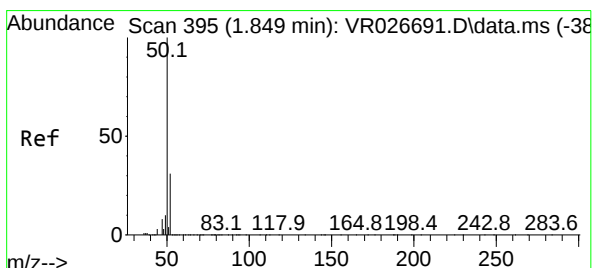
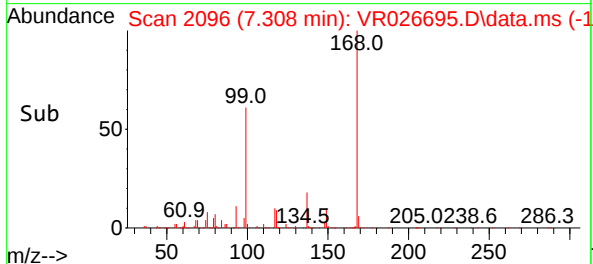
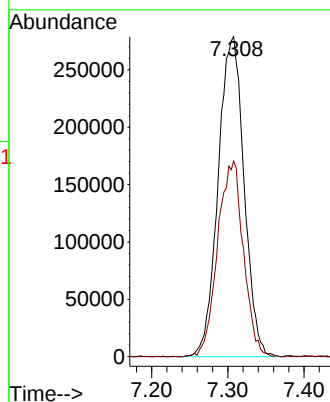
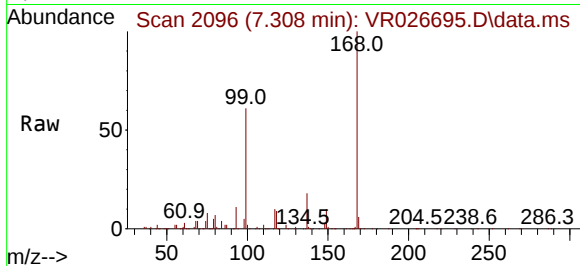




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.308 min Scan# 2096
Delta R.T. 0.004 min
Lab File: VR026695.D
Acq: 4 Aug 2025 13:56

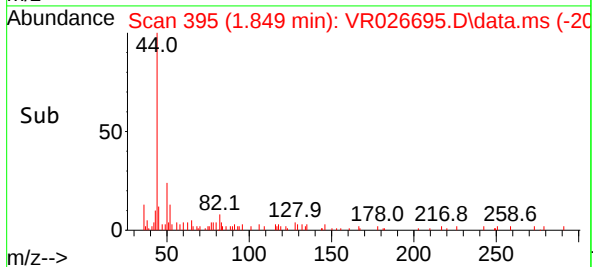
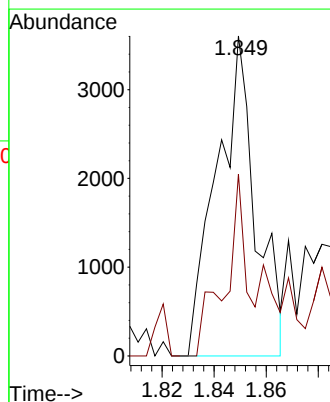
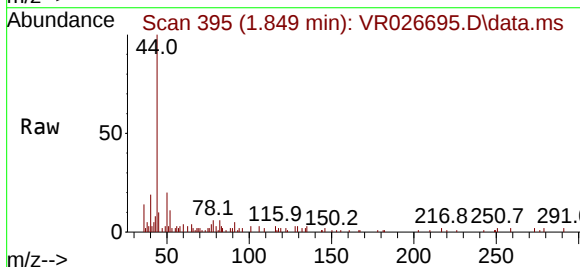
Instrument :
MSVOA_R
ClientSampleId :
VR0804WBL01

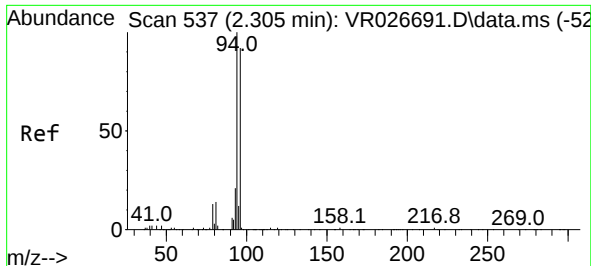
Tgt Ion:168 Resp: 658194
Ion Ratio Lower Upper
168 100
99 61.2 43.8 65.8



#3
Chloromethane
Concen: 0.524 ug/l
RT: 1.849 min Scan# 395
Delta R.T. 0.000 min
Lab File: VR026695.D
Acq: 4 Aug 2025 13:56

Tgt Ion: 50 Resp: 3740
Ion Ratio Lower Upper
50 100
52 56.8 25.0 37.4#

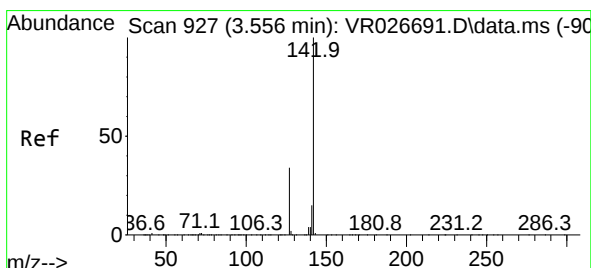
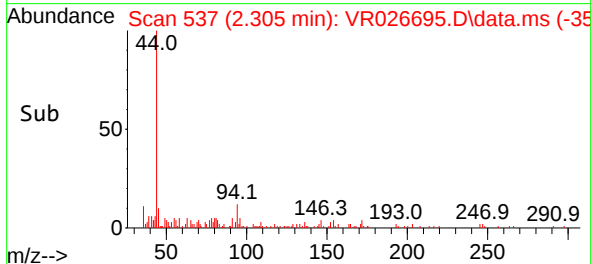
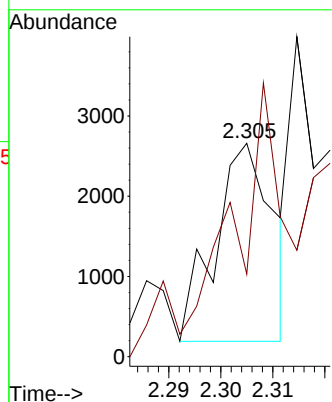
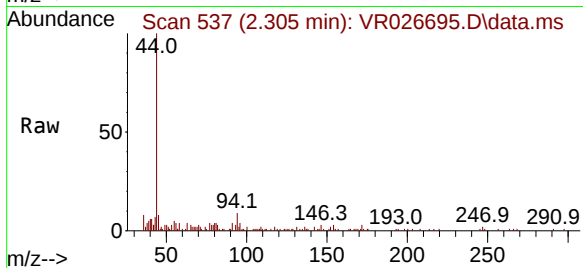




#5
Bromomethane
Concen: 0.534 ug/l
RT: 2.305 min Scan# 51
Delta R.T. -0.000 min
Lab File: VR026695.D
Acq: 4 Aug 2025 13:56

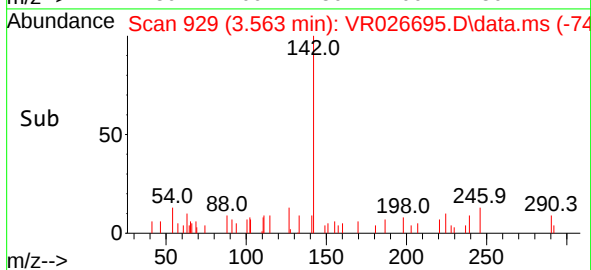
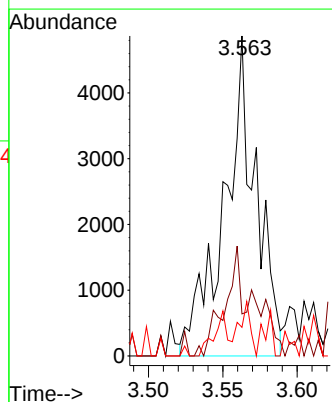
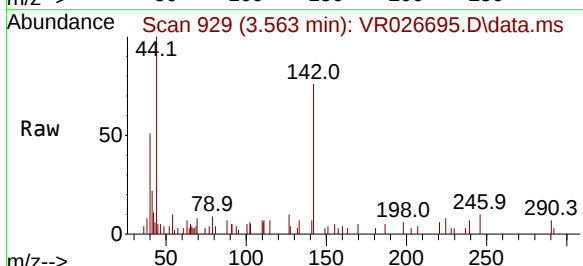
Instrument :
MSVOA_R
ClientSampleId :
VR0804WBL01

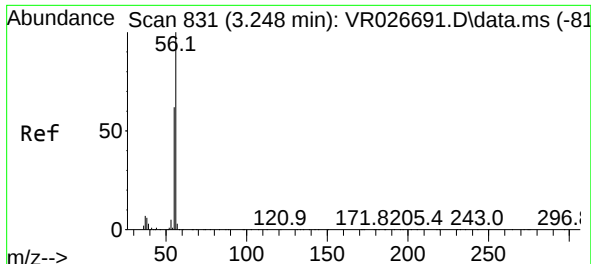
Tgt Ion: 94 Resp: 1895
Ion Ratio Lower Upper
94 100
96 30.3 73.3 109.9#



#10
Methyl Iodide
Concen: 1.062 ug/l
RT: 3.563 min Scan# 929
Delta R.T. 0.006 min
Lab File: VR026695.D
Acq: 4 Aug 2025 13:56

Tgt Ion:142 Resp: 7262
Ion Ratio Lower Upper
142 100
127 11.6 30.1 45.1#
141 5.6 10.8 16.2#

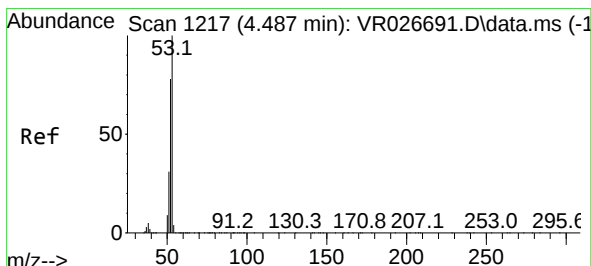
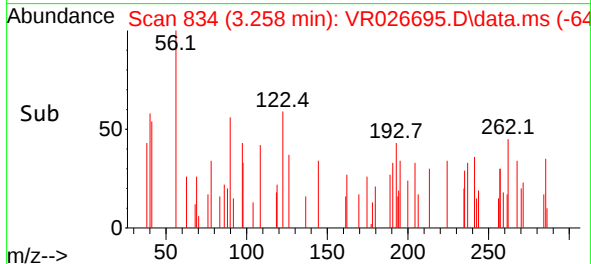
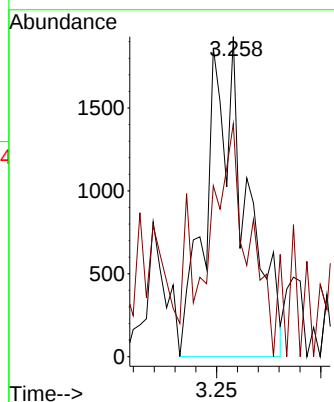
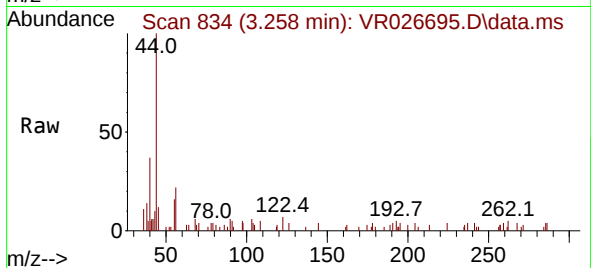




#13
Acrolein
Concen: 1.332 ug/l
RT: 3.258 min Scan# 813
Delta R.T. 0.010 min
Lab File: VR026695.D
Acq: 4 Aug 2025 13:56

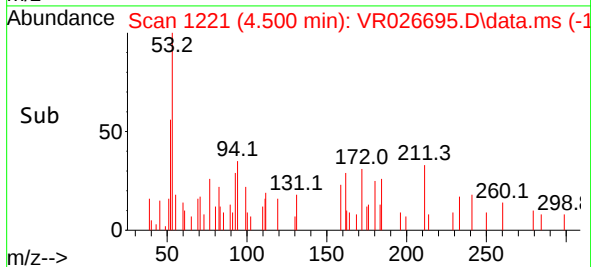
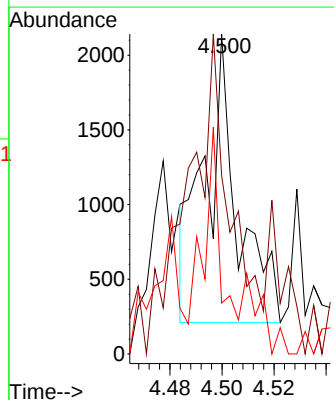
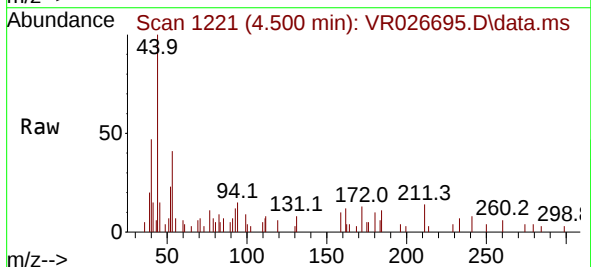
Instrument :
MSVOA_R
ClientSampleId :
VR0804WBL01

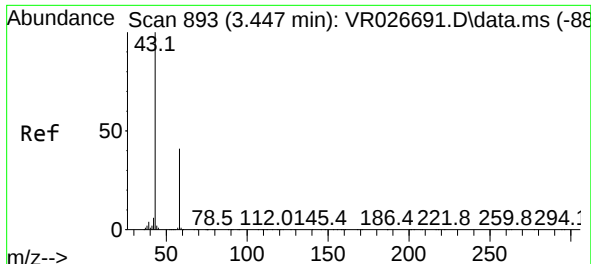
Tgt Ion: 56 Resp: 2538
Ion Ratio Lower Upper
56 100
55 56.9 53.8 80.8



#15
Acrylonitrile
Concen: 0.329 ug/l
RT: 4.500 min Scan# 1221
Delta R.T. 0.013 min
Lab File: VR026695.D
Acq: 4 Aug 2025 13:56

Tgt Ion: 53 Resp: 1702
Ion Ratio Lower Upper
53 100
52 142.7 61.4 92.2#
51 42.5 25.8 38.6#

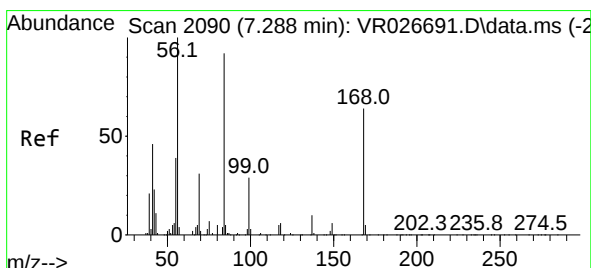
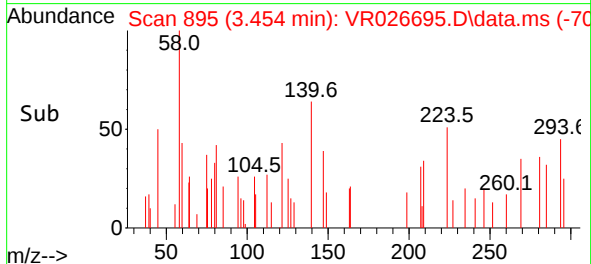
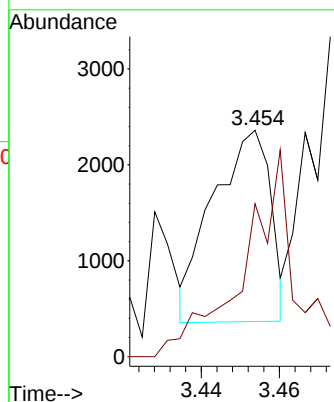
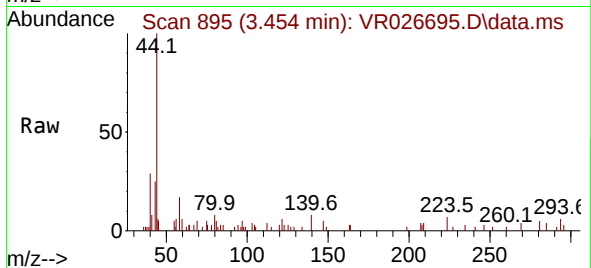




#16
Acetone
Concen: 0.525 ug/l
RT: 3.454 min Scan# 895
Delta R.T. 0.006 min
Lab File: VR026695.D
Acq: 4 Aug 2025 13:56

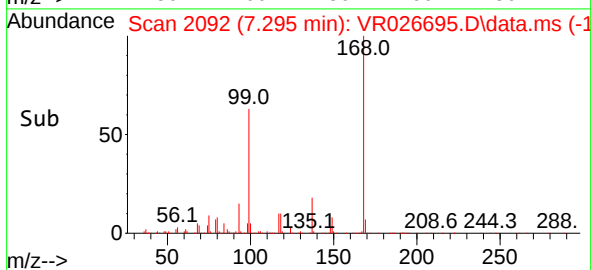
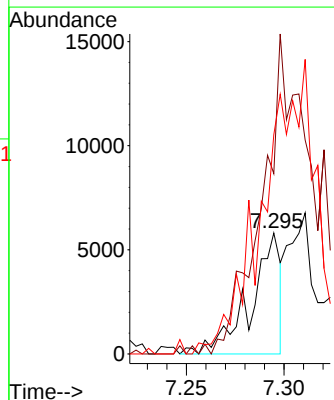
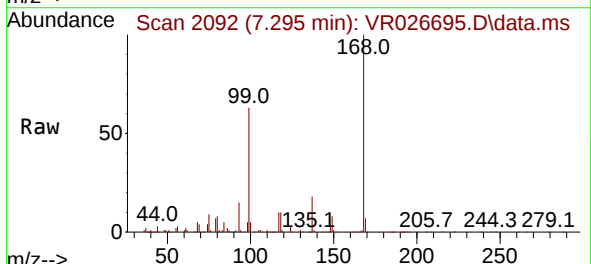
Instrument :
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ClientSampleId :
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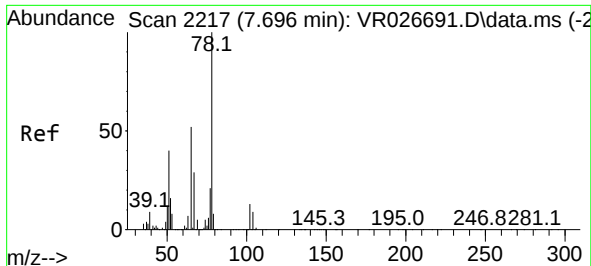
Tgt Ion: 43 Resp: 2053
Ion Ratio Lower Upper
43 100
58 86.2 32.9 49.3#



#30
Cyclohexane
Concen: 0.466 ug/l
RT: 7.295 min Scan# 2092
Delta R.T. 0.006 min
Lab File: VR026695.D
Acq: 4 Aug 2025 13:56

Tgt Ion: 56 Resp: 6149
Ion Ratio Lower Upper
56 100
69 142.3 24.8 37.2#
84 169.4 73.1 109.7#

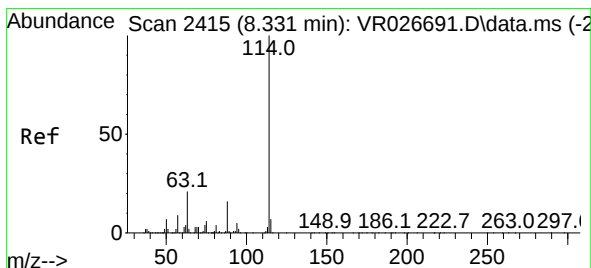
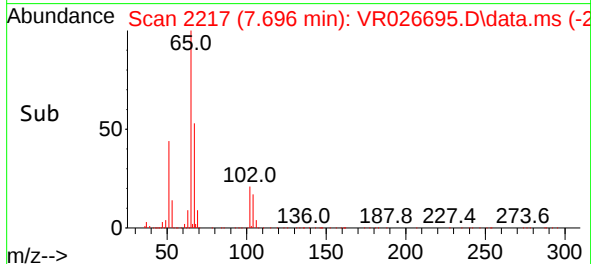
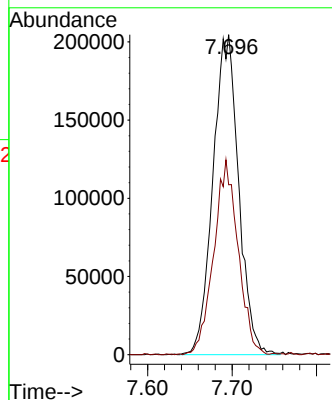
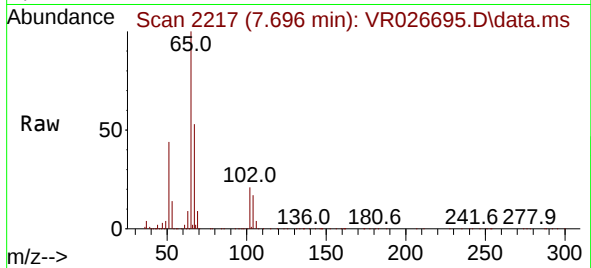




#32
1,2-Dichloroethane-d4
Concen: 51.948 ug/l
RT: 7.696 min Scan# 211
Delta R.T. 0.000 min
Lab File: VR026695.D
Acq: 4 Aug 2025 13:56

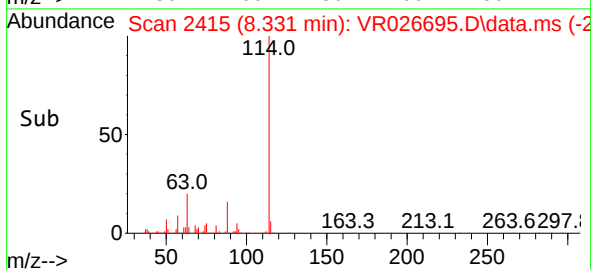
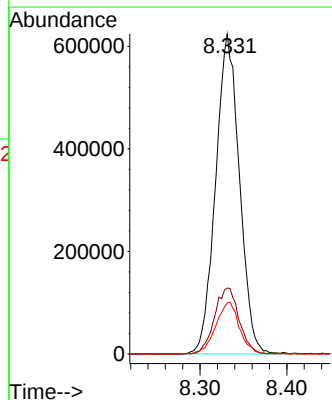
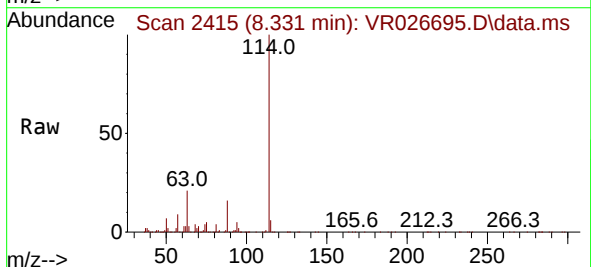
Instrument :
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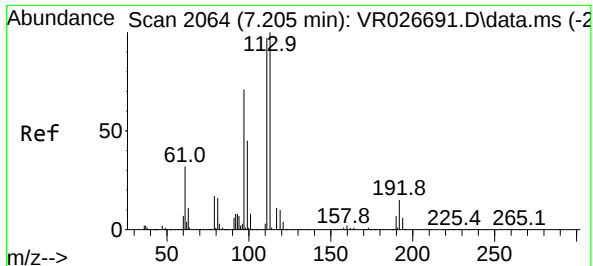
Tgt Ion: 65 Resp: 432757
Ion Ratio Lower Upper
65 100
67 57.6 0.0 118.4



#33
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.331 min Scan# 2415
Delta R.T. 0.000 min
Lab File: VR026695.D
Acq: 4 Aug 2025 13:56

Tgt Ion: 114 Resp: 1188421
Ion Ratio Lower Upper
114 100
63 20.6 0.0 41.6
88 15.9 0.0 32.6

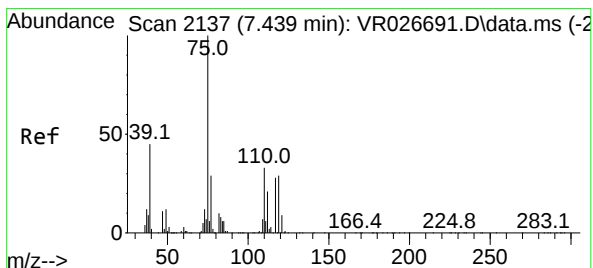
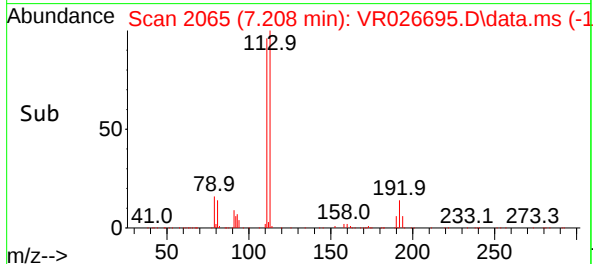
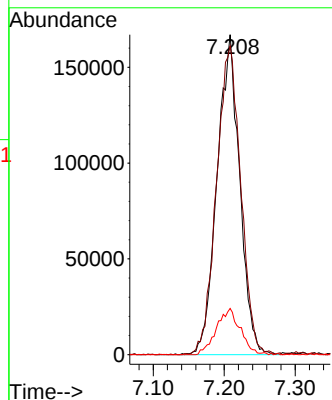
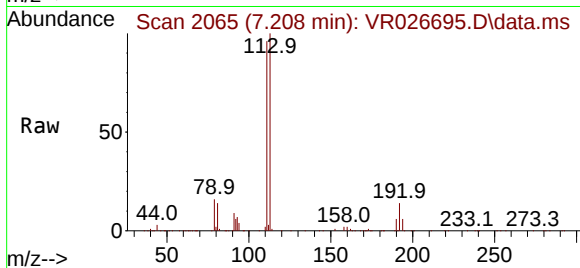




#34
Dibromofluoromethane
Concen: 50.202 ug/l
RT: 7.208 min Scan# 2064
Delta R.T. 0.003 min
Lab File: VR026695.D
Acq: 4 Aug 2025 13:56

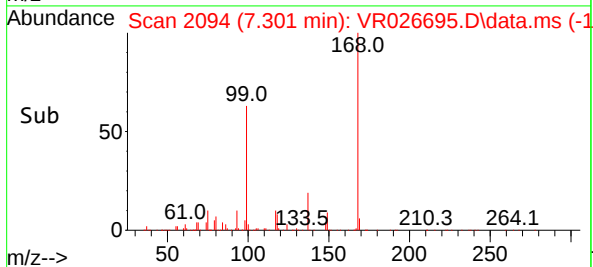
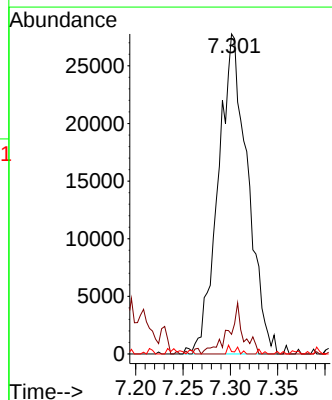
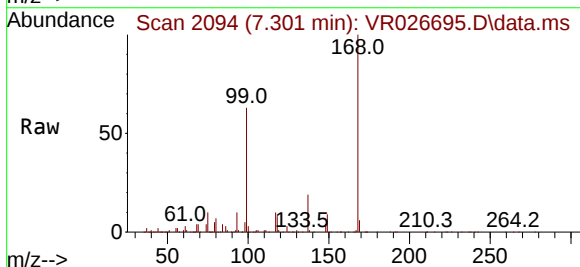
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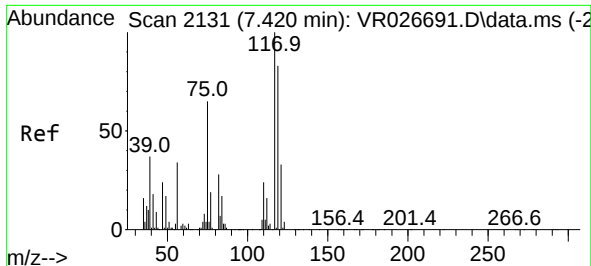
Tgt Ion:113 Resp: 369010
Ion Ratio Lower Upper
113 100
111 103.6 81.7 122.5
192 15.2 12.3 18.5



#35
1,1-Dichloropropene
Concen: 6.464 ug/l
RT: 7.301 min Scan# 2094
Delta R.T. -0.138 min
Lab File: VR026695.D
Acq: 4 Aug 2025 13:56

Tgt Ion: 75 Resp: 59942
Ion Ratio Lower Upper
75 100
110 8.0 17.0 50.9#
77 0.4 24.6 37.0#

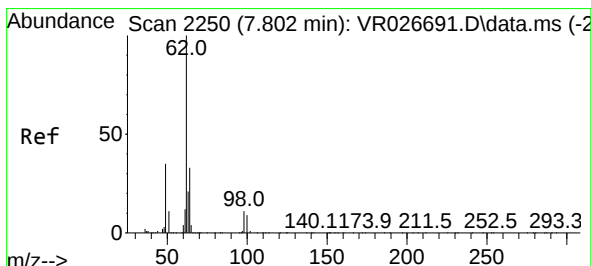
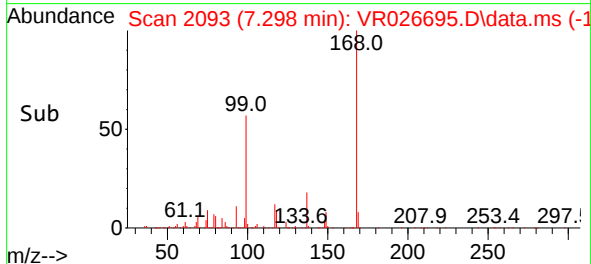
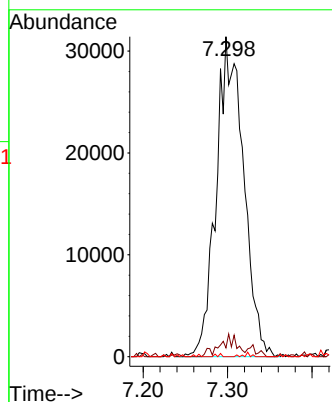
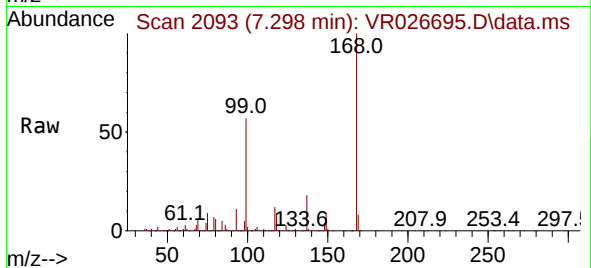




#37
Carbon Tetrachloride
Concen: 9.323 ug/l
RT: 7.298 min Scan# 2093
Delta R.T. -0.122 min
Lab File: VR026695.D
Acq: 4 Aug 2025 13:56

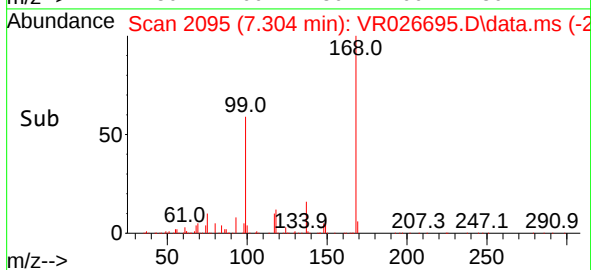
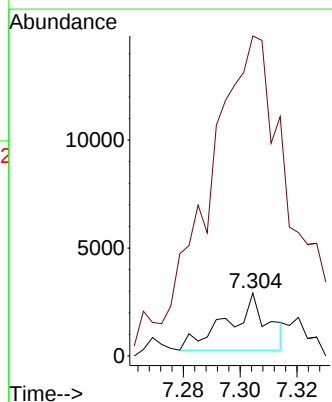
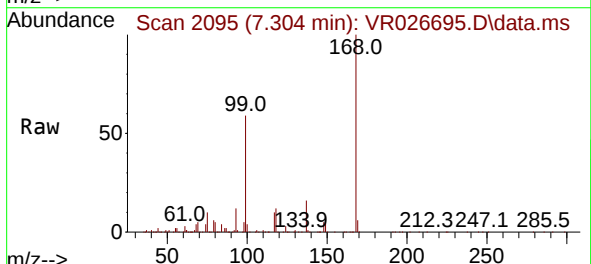
Instrument : MSVOA_R
ClientSampleId : VR0804WBL01

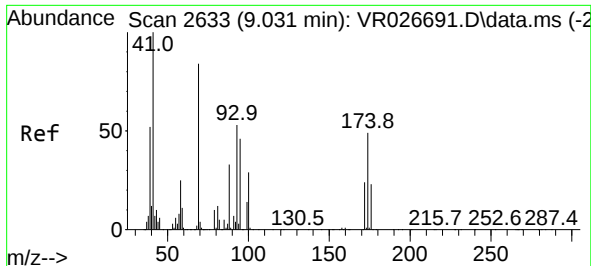
Tgt Ion:117 Resp: 70407
Ion Ratio Lower Upper
117 100
119 1.8 67.0 100.4#
121 0.0 26.3 39.5#



#41
1,2-Dichloroethane
Concen: 0.304 ug/l
RT: 7.304 min Scan# 2095
Delta R.T. -0.497 min
Lab File: VR026695.D
Acq: 4 Aug 2025 13:56

Tgt Ion: 62 Resp: 2582
Ion Ratio Lower Upper
62 100
98 1204.5 0.0 22.2#

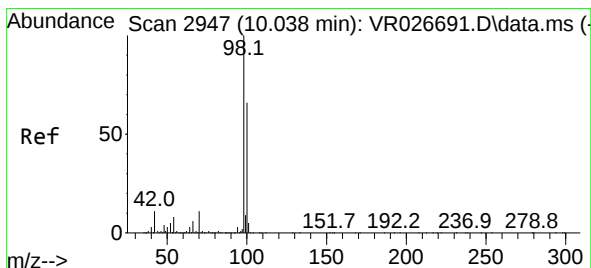
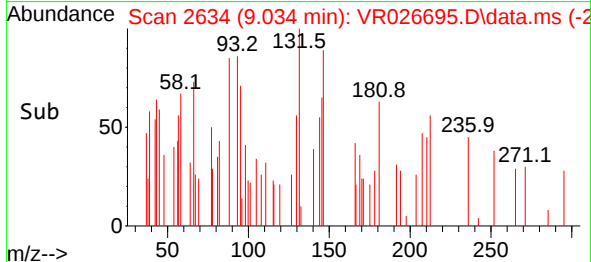
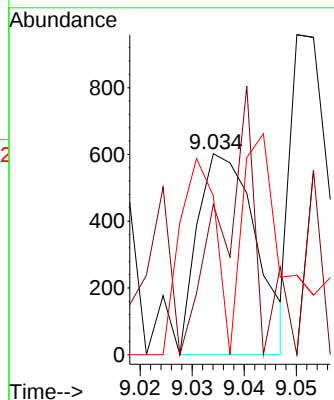
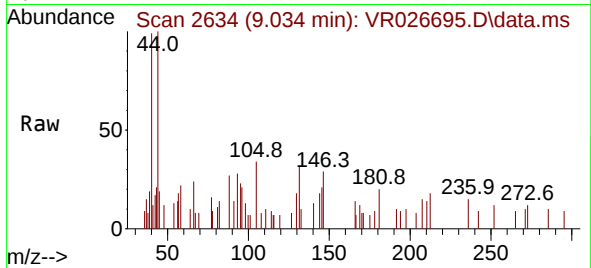




#48
1,4-Dioxane
Concen: 3.735 ug/l
RT: 9.034 min Scan# 2634
Delta R.T. 0.003 min
Lab File: VR026695.D
Acq: 4 Aug 2025 13:56

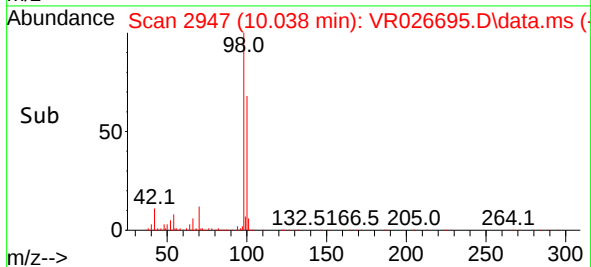
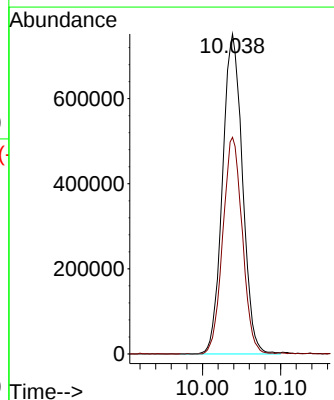
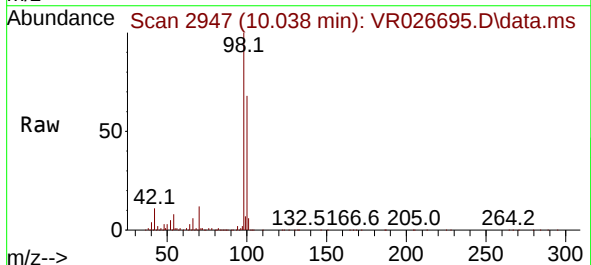
Instrument :
MSVOA_R
ClientSampleId :
VR0804WBL01

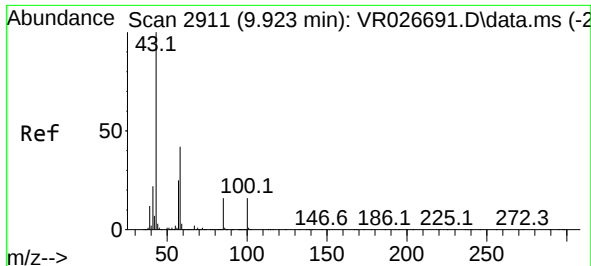
Tgt Ion: 88 Resp: 470
Ion Ratio Lower Upper
88 100
43 0.0 25.2 37.8#
58 59.8 60.8 91.2#



#49
Toluene-d8
Concen: 50.639 ug/l
RT: 10.038 min Scan# 2947
Delta R.T. 0.000 min
Lab File: VR026695.D
Acq: 4 Aug 2025 13:56

Tgt Ion: 98 Resp: 1333542
Ion Ratio Lower Upper
98 100
100 66.1 53.9 80.9





#50

4-Methyl-2-Pentanone

Concen: 0.345 ug/l

RT: 9.920 min Scan# 2911

Delta R.T. -0.003 min

Lab File: VR026695.D

Acq: 4 Aug 2025 13:56

Instrument :

MSVOA_R

ClientSampleId :

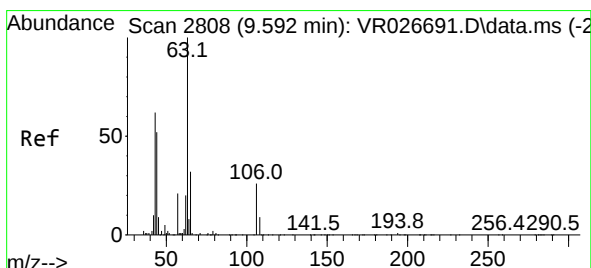
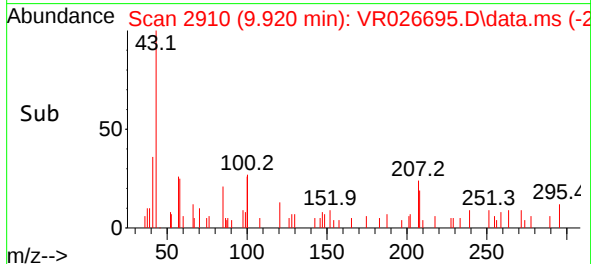
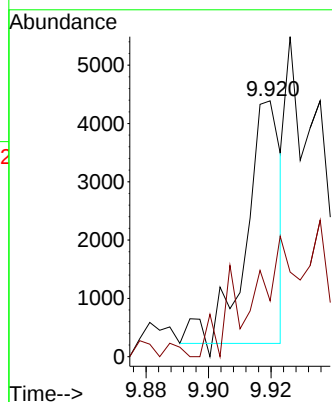
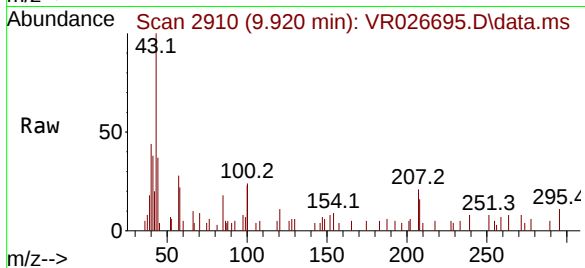
VR0804WBL01

Tgt Ion: 43 Resp: 3217

Ion Ratio Lower Upper

43 100

58 48.2 33.7 50.5



#57

2-Chloroethyl Vinyl ether

Concen: 0.285 ug/l

RT: 9.580 min Scan# 2804

Delta R.T. -0.013 min

Lab File: VR026695.D

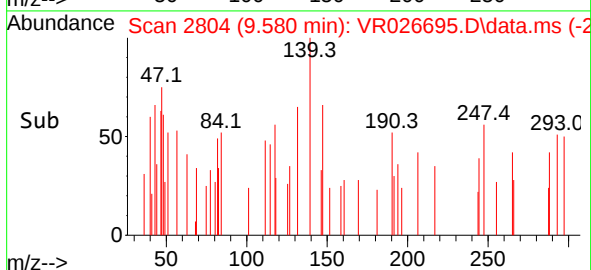
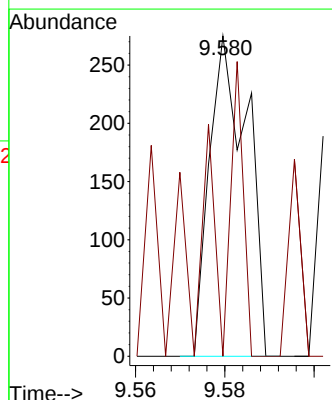
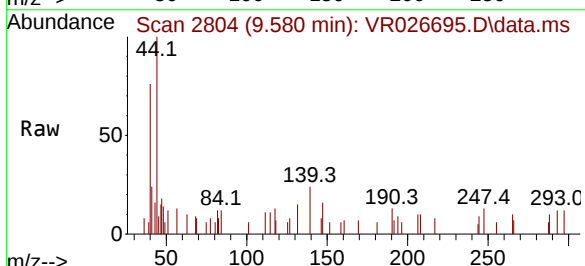
Acq: 4 Aug 2025 13:56

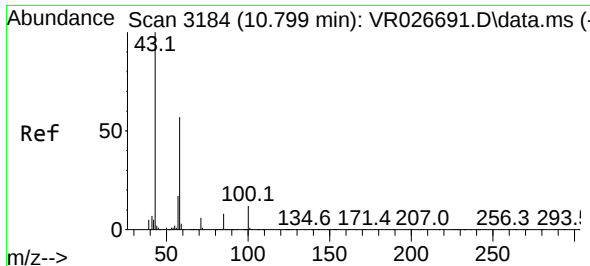
Tgt Ion: 63 Resp: 162

Ion Ratio Lower Upper

63 100

106 23.5 22.5 33.7

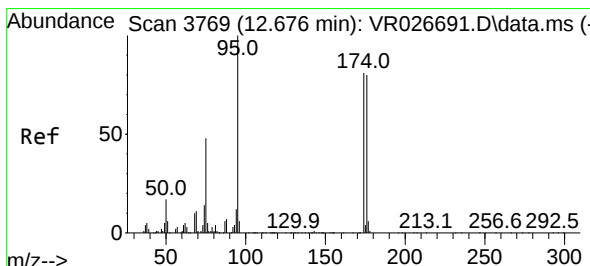
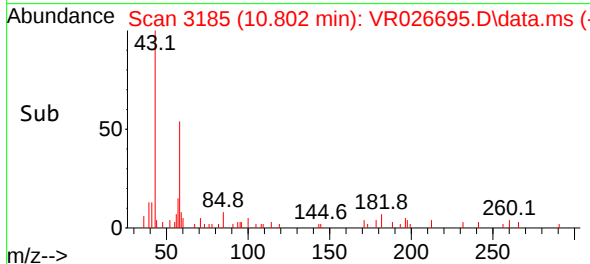
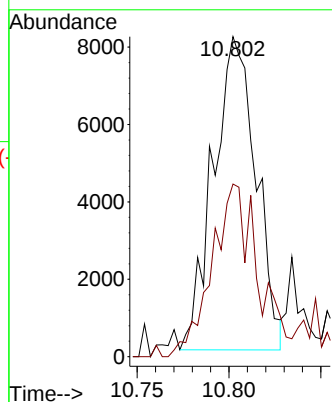
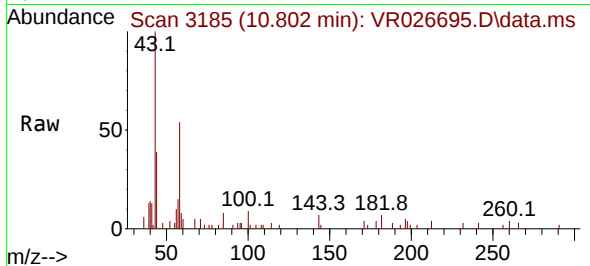




#58
2-Hexanone
Concen: 2.085 ug/l
RT: 10.802 min Scan# 3185
Delta R.T. 0.003 min
Lab File: VR026695.D
Acq: 4 Aug 2025 13:56

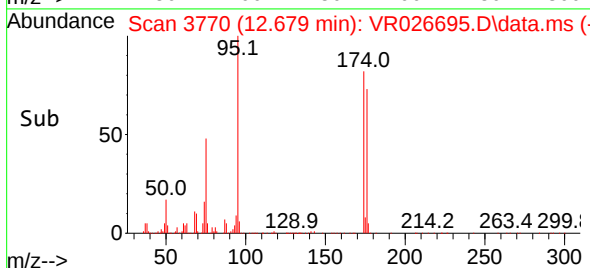
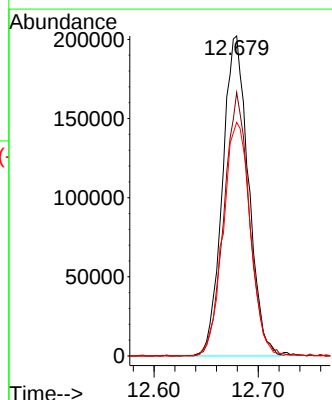
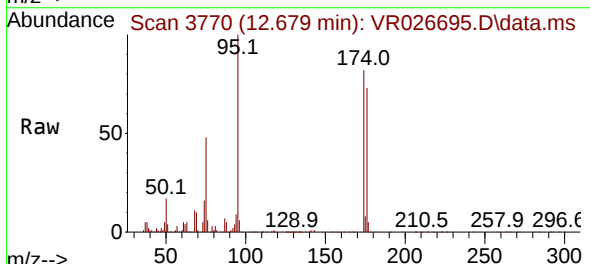
Instrument :
MSVOA_R
ClientSampleId :
VR0804WBL01

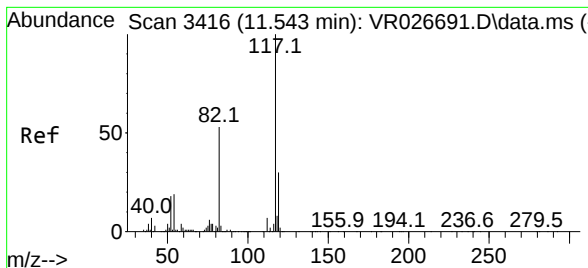
Tgt Ion: 43 Resp: 13098
Ion Ratio Lower Upper
43 100
58 51.0 28.8 86.4



#61
4-Bromofluorobenzene
Concen: 46.655 ug/l
RT: 12.679 min Scan# 3770
Delta R.T. 0.003 min
Lab File: VR026695.D
Acq: 4 Aug 2025 13:56

Tgt Ion: 95 Resp: 349453
Ion Ratio Lower Upper
95 100
174 80.3 0.0 158.4
176 77.1 0.0 149.0





#62

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.543 min Scan# 3416

Delta R.T. 0.000 min

Lab File: VR026695.D

Acq: 4 Aug 2025 13:56

Instrument :

MSVOA_R

ClientSampleId :

VR0804WBL01

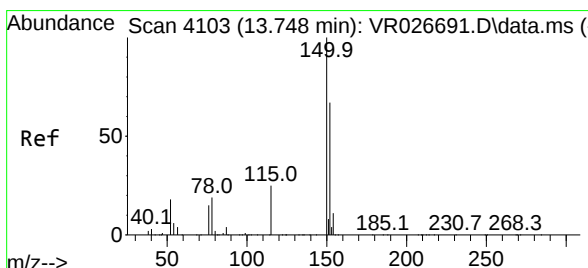
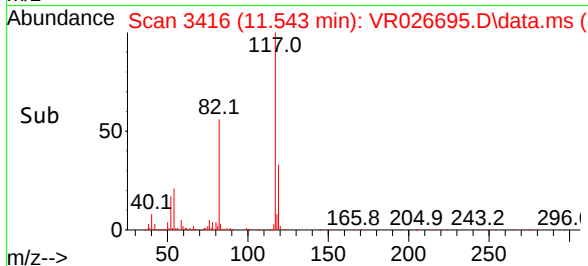
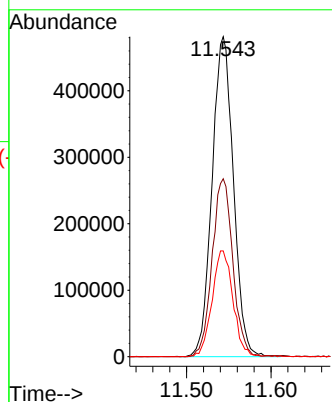
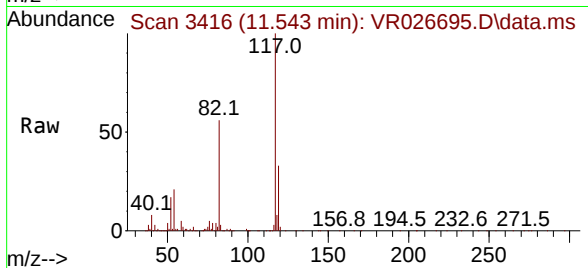
Tgt Ion:117 Resp: 844931

Ion Ratio Lower Upper

117 100

82 55.6 42.0 63.0

119 33.0 23.9 35.9



#71

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.748 min Scan# 4103

Delta R.T. 0.000 min

Lab File: VR026695.D

Acq: 4 Aug 2025 13:56

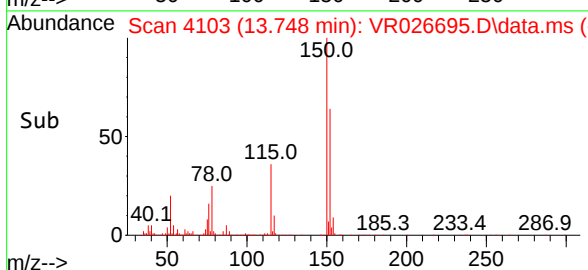
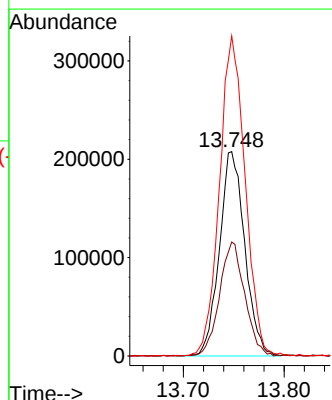
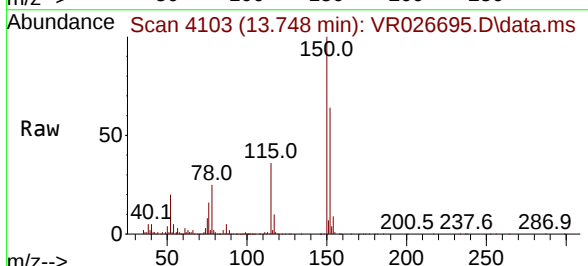
Tgt Ion:152 Resp: 362743

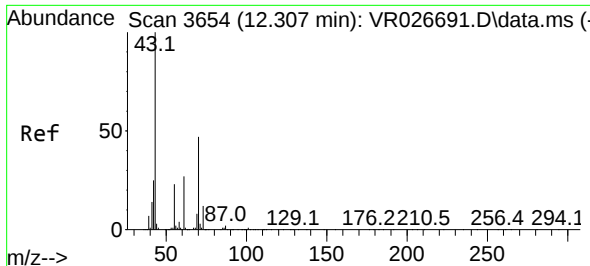
Ion Ratio Lower Upper

152 100

115 55.1 27.8 83.4

150 158.7 0.0 350.4

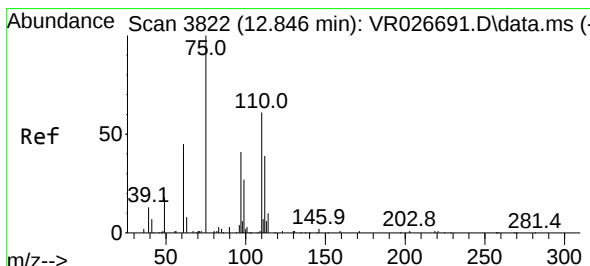
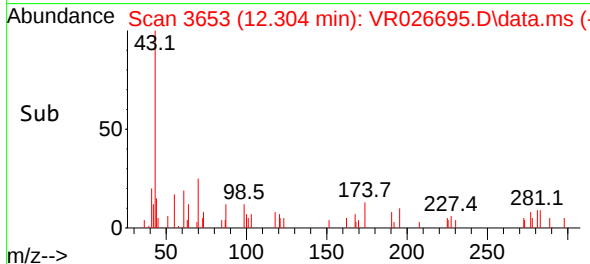
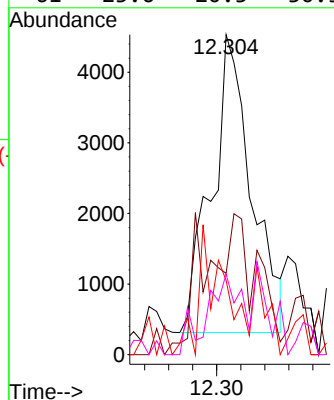
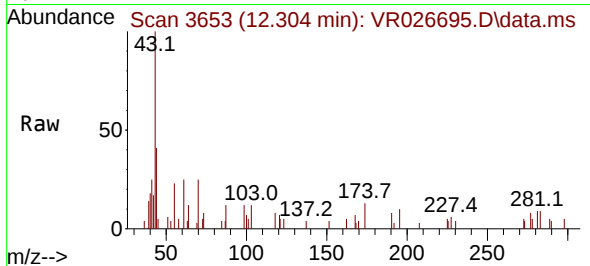




#73
N-amy1 acetate
Concen: 0.474 ug/l
RT: 12.304 min Scan# 3770
Delta R.T. -0.003 min
Lab File: VR026695.D
Acq: 4 Aug 2025 13:56

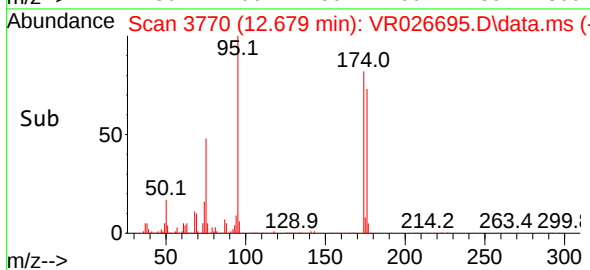
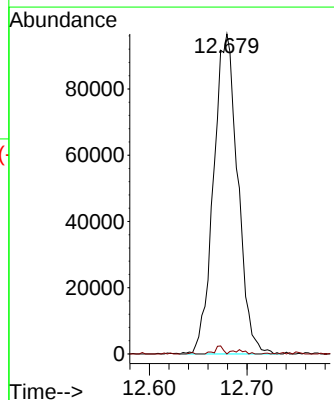
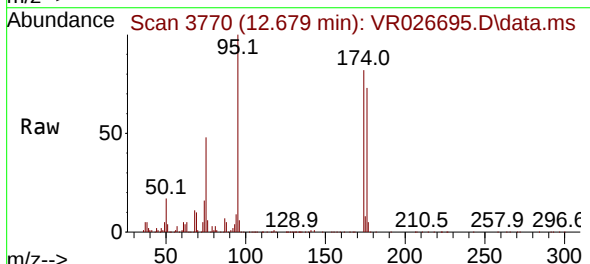
Instrument :
MSVOA_R
ClientSampleId :
VR0804WBL01

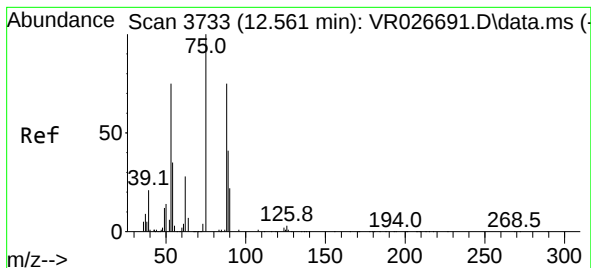
Tgt Ion: 43	Resp: 4859
Ion Ratio	Lower Upper
43 100	
70 20.5	36.4 54.6#
55 0.0	18.7 28.1#
61 23.6	20.3 30.5



#75
1,2,3-Trichloropropane
Concen: 27.553 ug/l
RT: 12.679 min Scan# 3770
Delta R.T. -0.167 min
Lab File: VR026695.D
Acq: 4 Aug 2025 13:56

Tgt Ion: 75	Resp: 165671
Ion Ratio	Lower Upper
75 100	
77 0.9	0.0 0.0#

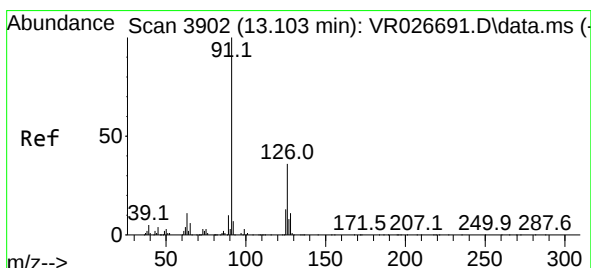
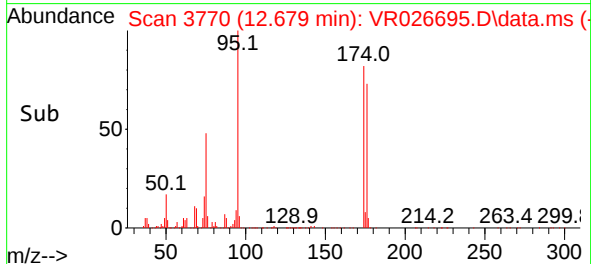
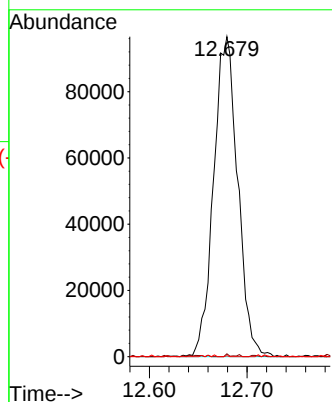
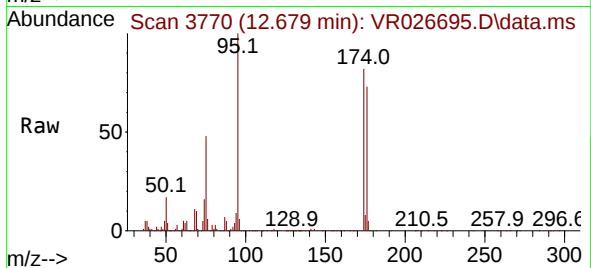




#80
trans-1,4-Dichloro-2-butene
Concen: 80.249 ug/l
RT: 12.679 min Scan# 311
Delta R.T. 0.119 min
Lab File: VR026695.D
Acq: 4 Aug 2025 13:56

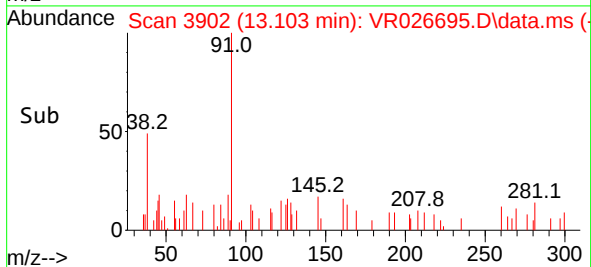
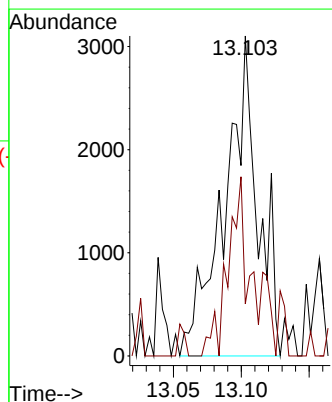
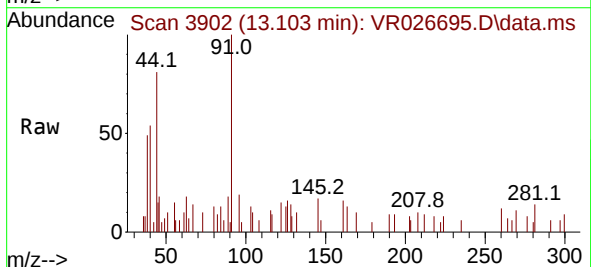
Instrument :
MSVOA_R
ClientSampleId :
VR0804WBL01

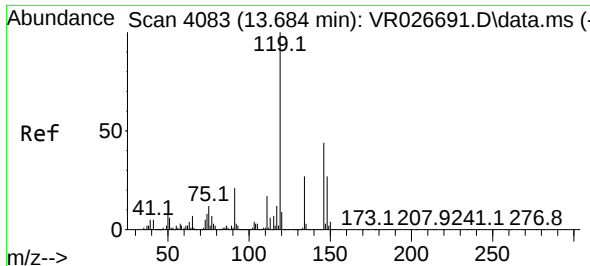
Tgt Ion: 75 Resp: 165671
Ion Ratio Lower Upper
75 100
53 0.2 67.8 101.6#
89 0.0 34.6 52.0#



#81
4-Chlorotoluene
Concen: 0.296 ug/l
RT: 13.103 min Scan# 3902
Delta R.T. 0.000 min
Lab File: VR026695.D
Acq: 4 Aug 2025 13:56

Tgt Ion: 91 Resp: 5291
Ion Ratio Lower Upper
91 100
126 33.0 17.8 53.3

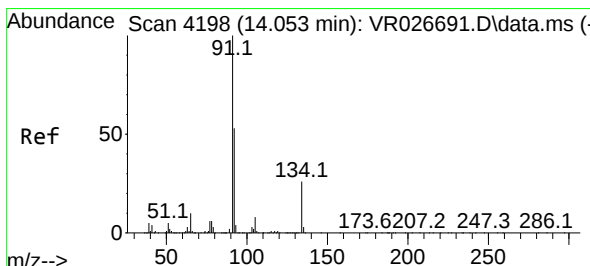
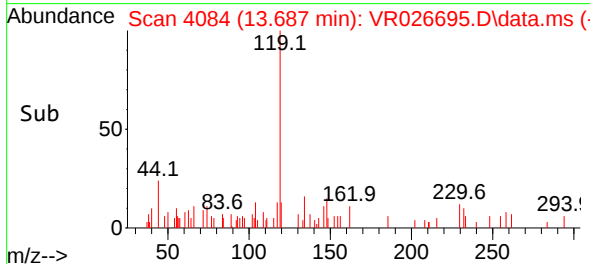
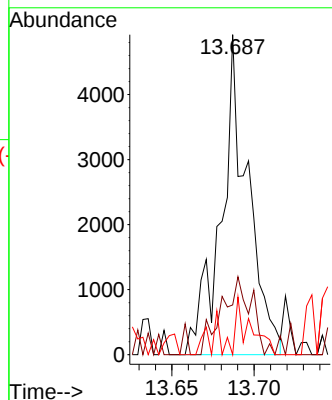
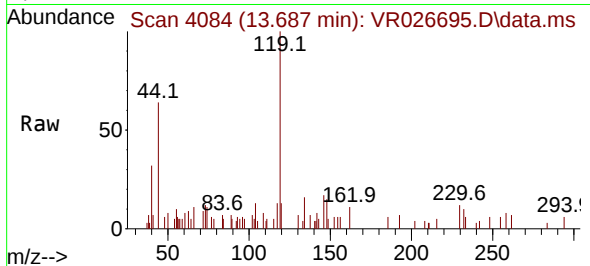




#85
 p-Isopropyltoluene
 Concen: 0.251 ug/l
 RT: 13.687 min Scan# 4084
 Delta R.T. 0.003 min
 Lab File: VR026695.D
 Acq: 4 Aug 2025 13:56

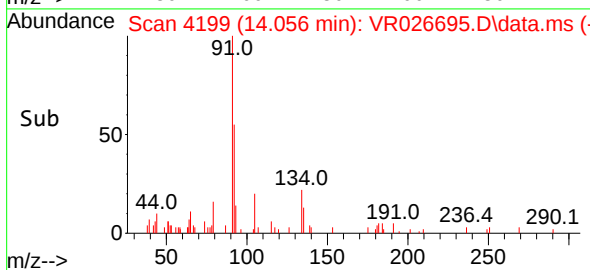
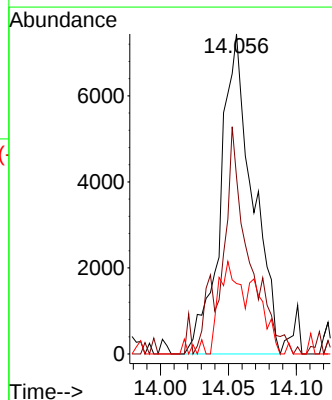
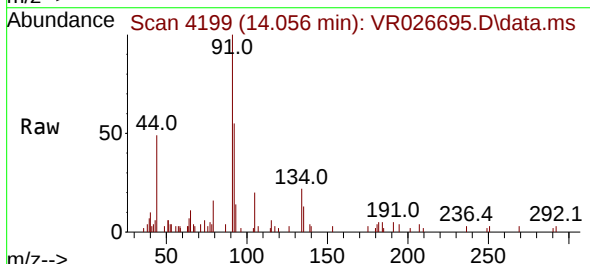
Instrument :
 MSVOA_R
 ClientSampleId :
 VR0804WBL01

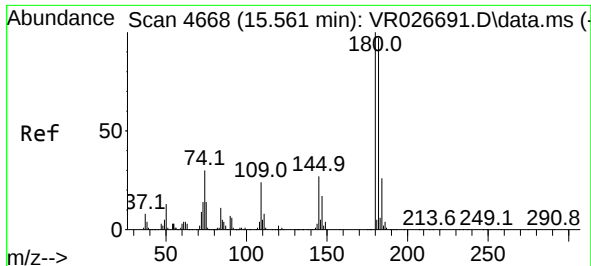
Tgt Ion:119 Resp: 5572
 Ion Ratio Lower Upper
 119 100
 134 27.1 13.9 41.7
 91 9.5 10.4 31.2#



#88
 n-Butylbenzene
 Concen: 0.594 ug/l
 RT: 14.056 min Scan# 4199
 Delta R.T. 0.003 min
 Lab File: VR026695.D
 Acq: 4 Aug 2025 13:56

Tgt Ion: 91 Resp: 12184
 Ion Ratio Lower Upper
 91 100
 92 51.3 27.1 81.2
 134 20.1 13.1 39.3

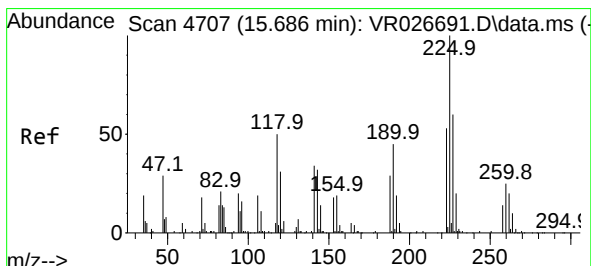
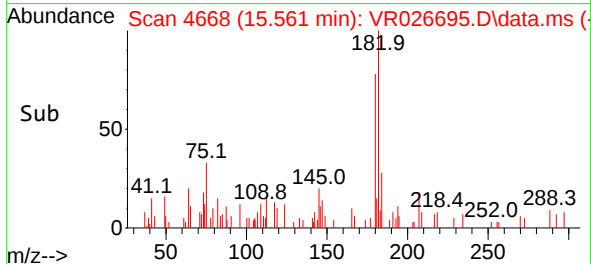
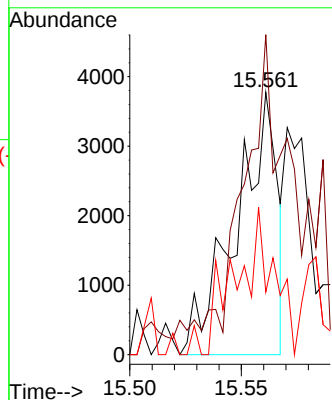
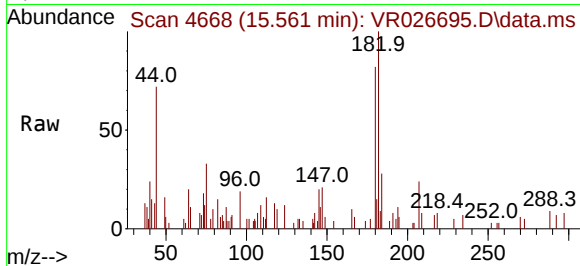




#92
1,2,4-Trichlorobenzene
Concen: 0.728 ug/l
RT: 15.561 min Scan# 41
Delta R.T. 0.000 min
Lab File: VR026695.D
Acq: 4 Aug 2025 13:56

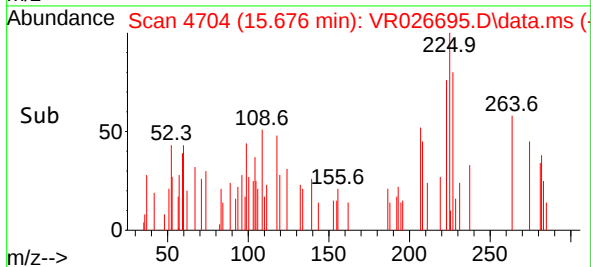
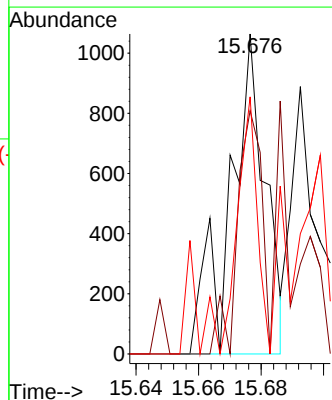
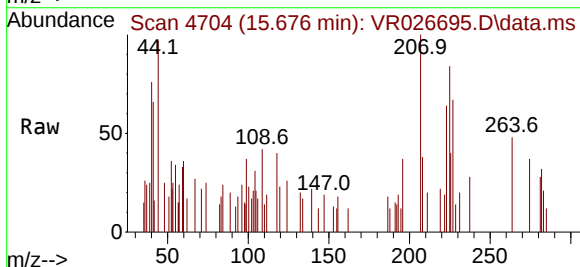
Instrument :
MSVOA_R
ClientSampleId :
VR0804WBL01

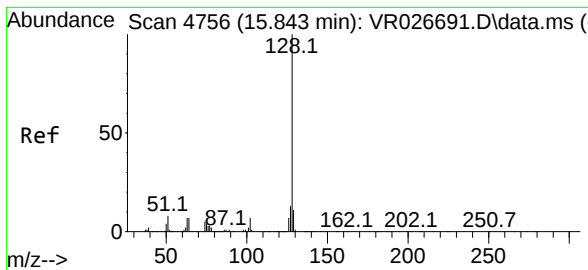
Tgt Ion:180 Resp: 4793
Ion Ratio Lower Upper
180 100
182 116.1 47.0 141.0
145 25.5 15.2 45.5



#93
Hexachlorobutadiene
Concen: 0.388 ug/l
RT: 15.676 min Scan# 4704
Delta R.T. -0.010 min
Lab File: VR026695.D
Acq: 4 Aug 2025 13:56

Tgt Ion:225 Resp: 831
Ion Ratio Lower Upper
225 100
223 52.8 31.4 94.2
227 44.0 31.6 95.0





#94
Naphthalene
Concen: 3.838 ug/l
RT: 15.840 min Scan# 41
Delta R.T. -0.003 min
Lab File: VR026695.D
Acq: 4 Aug 2025 13:56

Instrument :
MSVOA_R
ClientSampleId :
VR0804WBL01

Tgt Ion:128 Resp: 77476
Ion Ratio Lower Upper
128 100
127 11.1 9.8 14.8
129 7.5 8.6 13.0#

