

Data Path : Z:\voasrv\HPCHEM1\MSVOA_R\Data\VR081125\
 Data File : VR026733.D
 Acq On : 11 Aug 2025 11:09
 Operator : SY/MD
 Sample : VR0811WBL01
 Misc : 5mL/MSVOA_R/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_R
 ClientSampleId :

Quant Time: Aug 12 02:46:34 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)

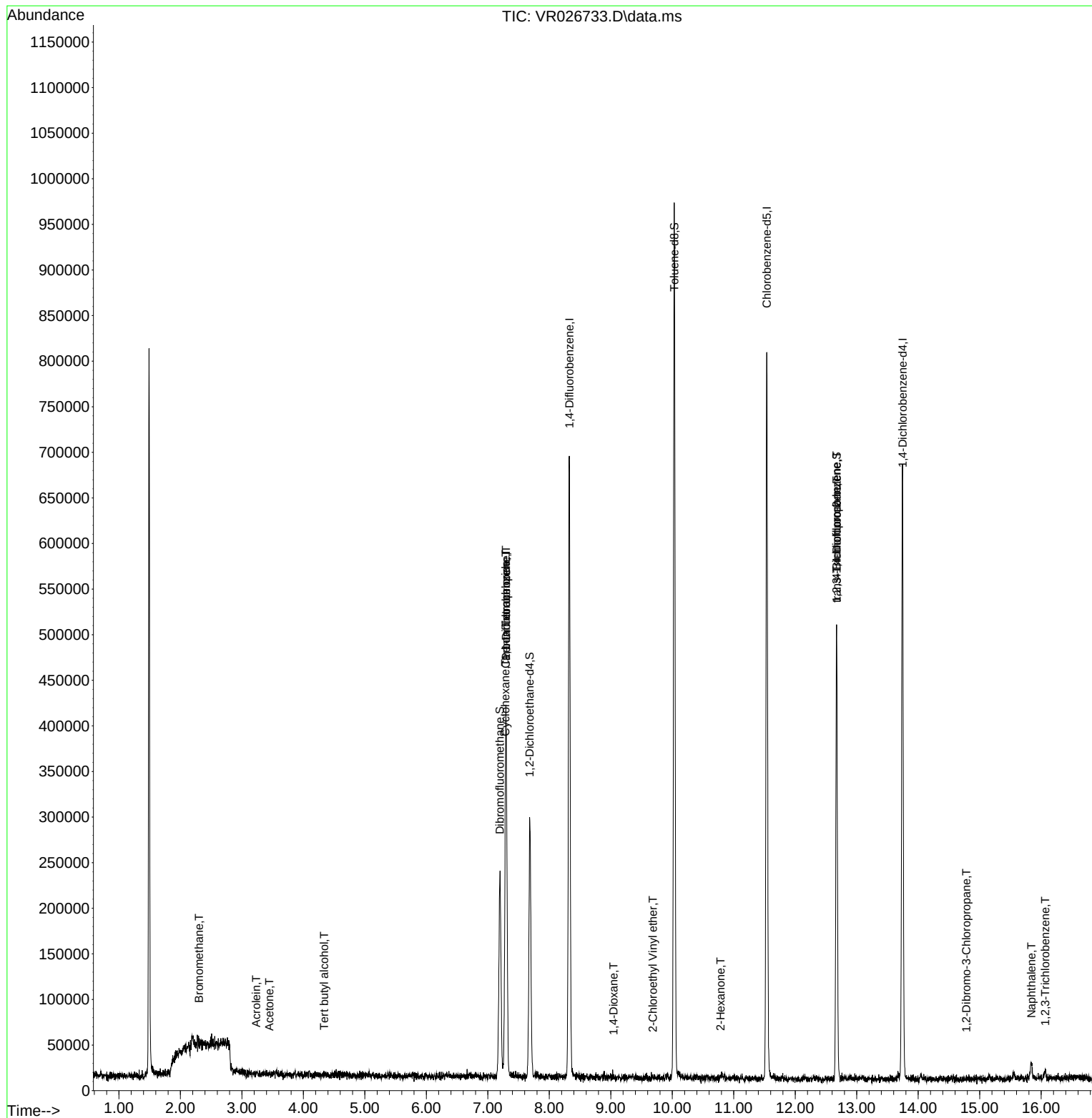
Internal Standards						
1) Pentafluorobenzene	7.295	168	329105	50.000	ug/l	0.00
33) 1,4-Difluorobenzene	8.328	114	596001	50.000	ug/l	0.00
62) Chlorobenzene-d5	11.537	117	470228	50.000	ug/l	0.00
71) 1,4-Dichlorobenzene-d4	13.748	152	200784	50.000	ug/l	0.00
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	7.683	65	195114	46.842	ug/l	-0.01
Spiked Amount	50.000	Range	74 - 125	Recovery	=	93.680%
34) Dibromofluoromethane	7.195	113	167339	45.395	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	90.780%
49) Toluene-d8	10.032	98	656362	49.699	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	99.400%
61) 4-Bromofluorobenzene	12.673	95	172120	45.821	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	91.640%
Target Compounds						
					Qvalue	
5) Bromomethane	2.305	94	1479	0.833	ug/l #	57
11) Tert butyl alcohol	4.339	59	139	0.213	ug/l #	1
13) Acrolein	3.232	56	274	0.288	ug/l #	47
16) Acetone	3.447	43	924	0.473	ug/l #	34
30) Cyclohexane	7.285	56	4398	0.666	ug/l #	1
35) 1,1-Dichloropropene	7.295	75	26351	5.666	ug/l #	45
37) Carbon Tetrachloride	7.292	117	19223	5.075	ug/l #	21
48) 1,4-Dioxane	9.044	88	281	4.452	ug/l	88
57) 2-Chloroethyl Vinyl ether	9.685	63	116	0.407	ug/l	93
58) 2-Hexanone	10.786	43	988	0.314	ug/l	71
75) 1,2,3-Trichloropropane	12.676	75	88971	26.732	ug/l #	100
80) trans-1,4-Dichloro-2-b...	12.676	75	88971	77.860	ug/l #	16
91) 1,2-Dibromo-3-Chloropr...	14.784	75	213	0.381	ug/l #	1
94) Naphthalene	15.840	128	16796	1.503	ug/l #	91
95) 1,2,3-Trichlorobenzene	16.068	180	2134	0.616	ug/l #	49

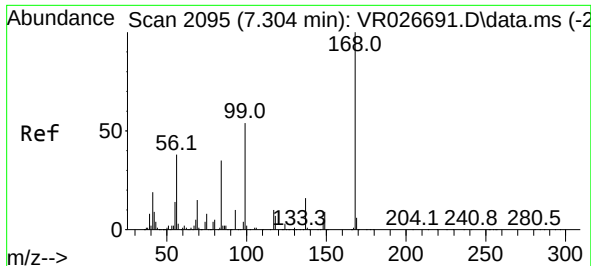
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Misc : 5mL/MSVOA_R/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_R
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Quant Time: Aug 12 02:46:34 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

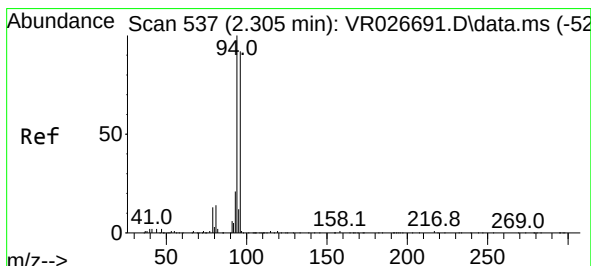
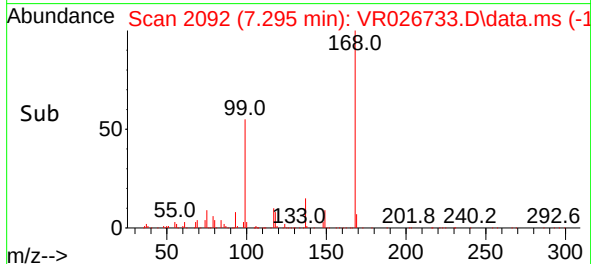
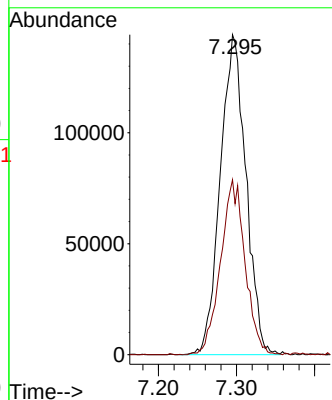
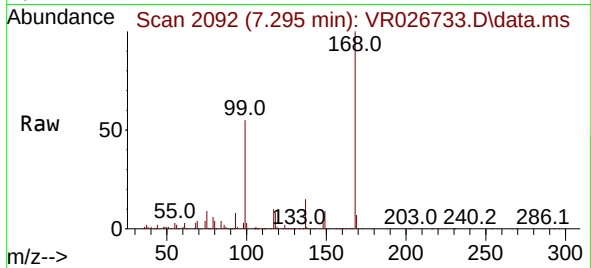




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.295 min Scan# 2095
Delta R.T. -0.009 min
Lab File: VR026733.D
Acq: 11 Aug 2025 11:09

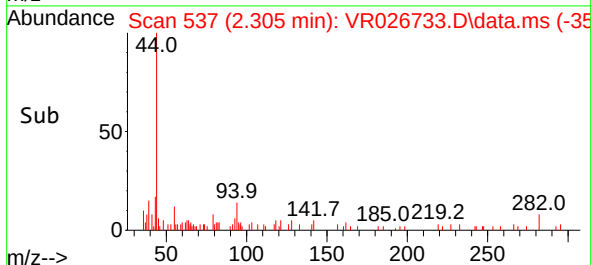
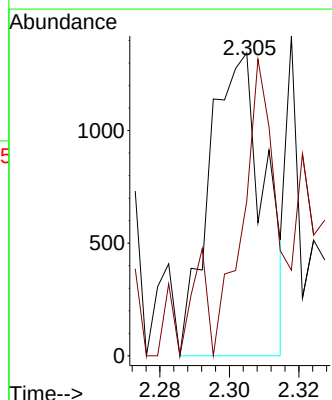
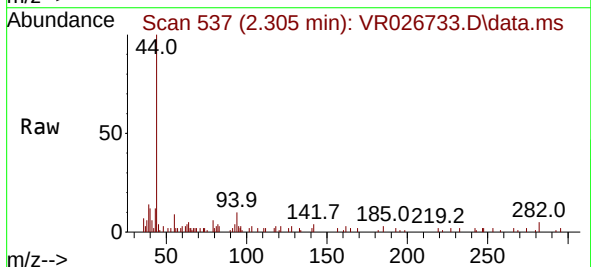
Instrument :
MSVOA_R
ClientSampleId :

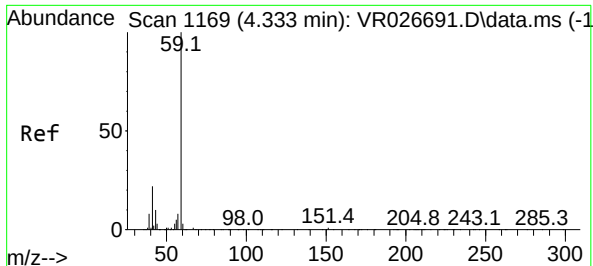
Tgt Ion:168 Resp: 329105
Ion Ratio Lower Upper
168 100
99 54.5 43.8 65.8



#5
Bromomethane
Concen: 0.833 ug/l
RT: 2.305 min Scan# 537
Delta R.T. 0.000 min
Lab File: VR026733.D
Acq: 11 Aug 2025 11:09

Tgt Ion: 94 Resp: 1479
Ion Ratio Lower Upper
94 100
96 51.1 73.3 109.9#

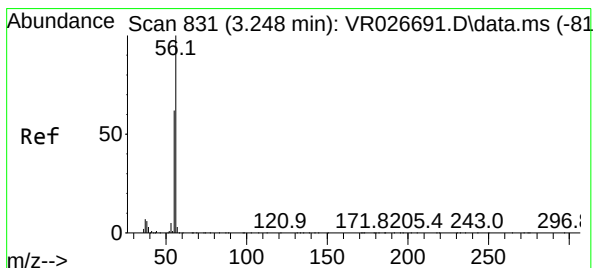
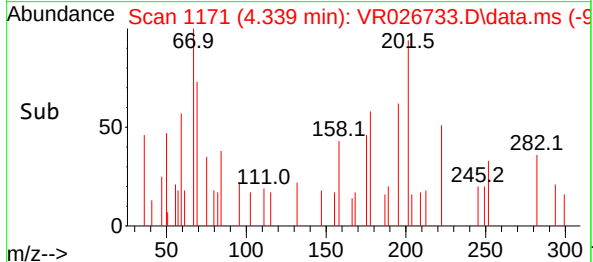
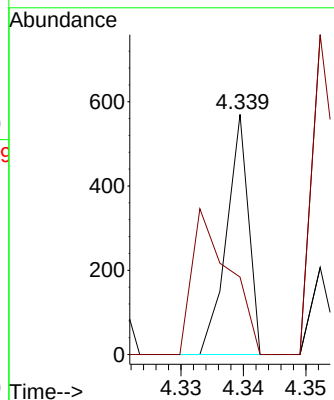
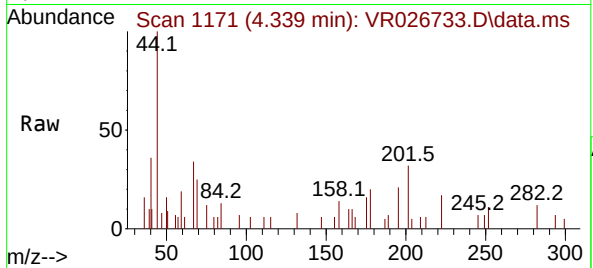




#11
Tert butyl alcohol
Concen: 0.213 ug/l
RT: 4.339 min Scan# 1169
Delta R.T. 0.006 min
Lab File: VR026733.D
Acq: 11 Aug 2025 11:09

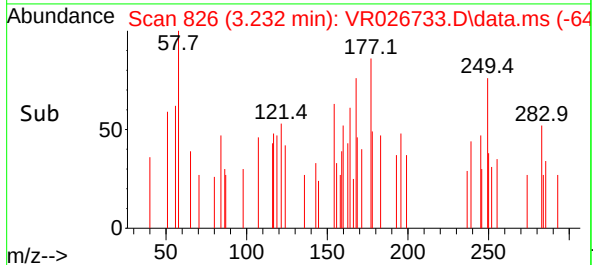
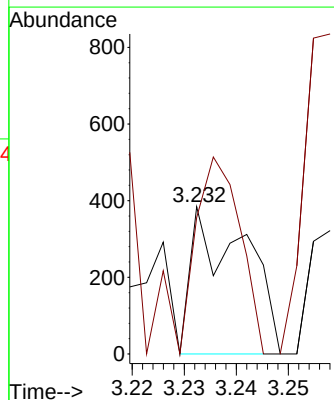
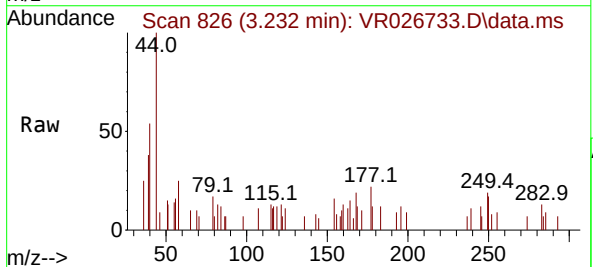
Instrument :
MSVOA_R
ClientSampleId :

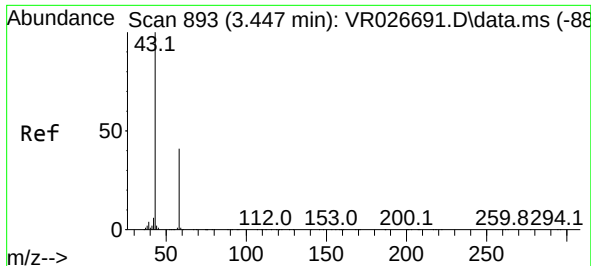
Tgt Ion: 59 Resp: 139
Ion Ratio Lower Upper
59 100
57 103.6 7.7 11.5#



#13
Acrolein
Concen: 0.288 ug/l
RT: 3.232 min Scan# 826
Delta R.T. -0.016 min
Lab File: VR026733.D
Acq: 11 Aug 2025 11:09

Tgt Ion: 56 Resp: 274
Ion Ratio Lower Upper
56 100
55 110.2 53.8 80.8#

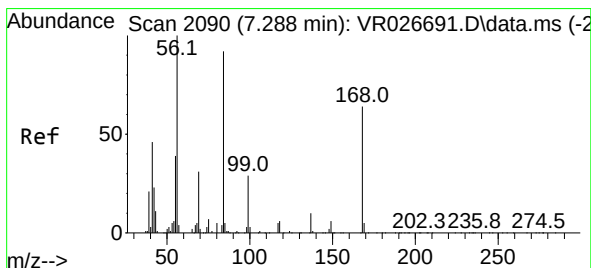
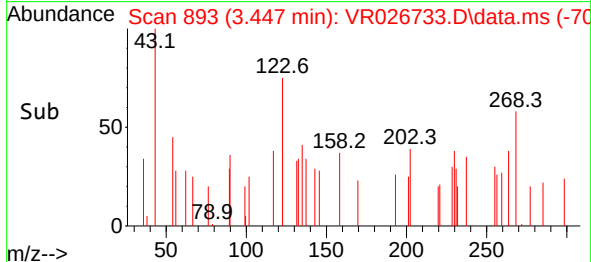
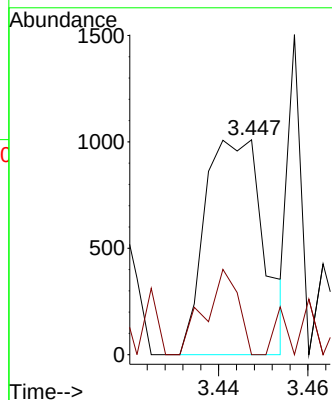
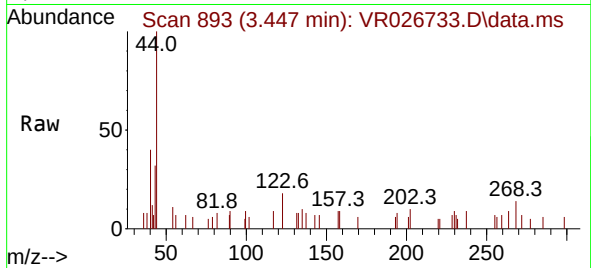




#16
Acetone
Concen: 0.473 ug/l
RT: 3.447 min Scan# 893
Delta R.T. 0.000 min
Lab File: VR026733.D
Acq: 11 Aug 2025 11:09

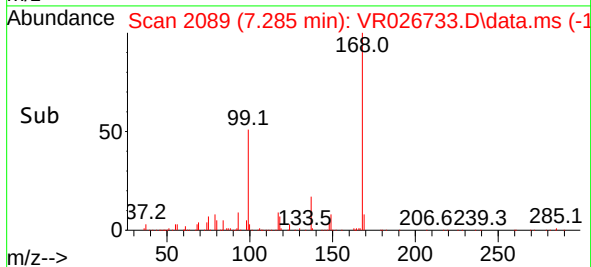
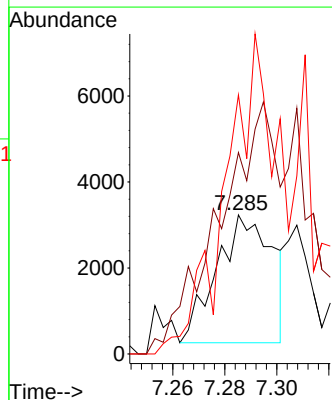
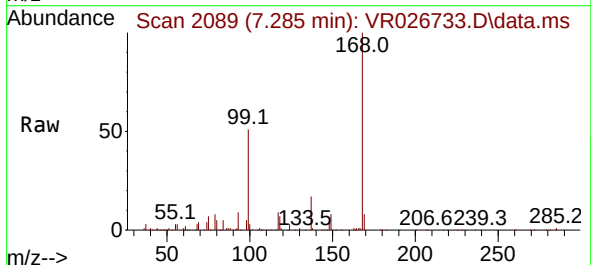
Instrument :
MSVOA_R
ClientSampleId :

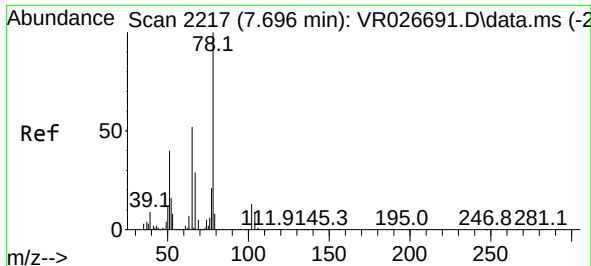
Tgt Ion: 43 Resp: 924
Ion Ratio Lower Upper
43 100
58 0.0 32.9 49.3#



#30
Cyclohexane
Concen: 0.666 ug/l
RT: 7.285 min Scan# 2089
Delta R.T. -0.003 min
Lab File: VR026733.D
Acq: 11 Aug 2025 11:09

Tgt Ion: 56 Resp: 4398
Ion Ratio Lower Upper
56 100
69 120.5 24.8 37.2#
84 189.0 73.1 109.7#





#32

1,2-Dichloroethane-d4

Concen: 46.842 ug/l

RT: 7.683 min Scan# 21

Delta R.T. -0.013 min

Lab File: VR026733.D

Acq: 11 Aug 2025 11:09

Instrument :

MSVOA_R

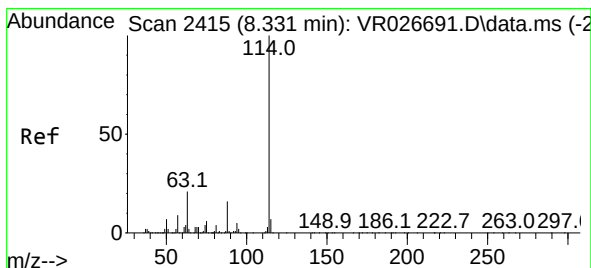
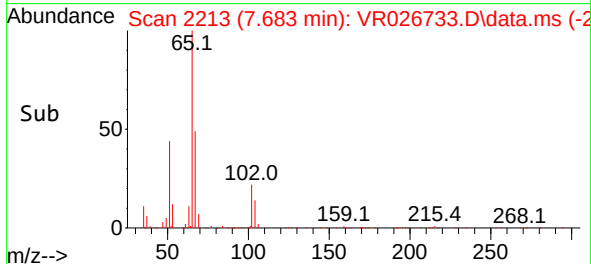
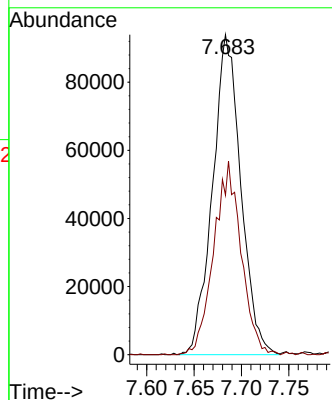
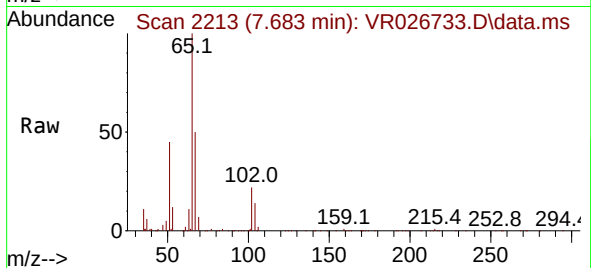
ClientSampleId :

Tgt Ion: 65 Resp: 195114

Ion Ratio Lower Upper

65 100

67 58.2 0.0 118.4



#33

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.328 min Scan# 2414

Delta R.T. -0.003 min

Lab File: VR026733.D

Acq: 11 Aug 2025 11:09

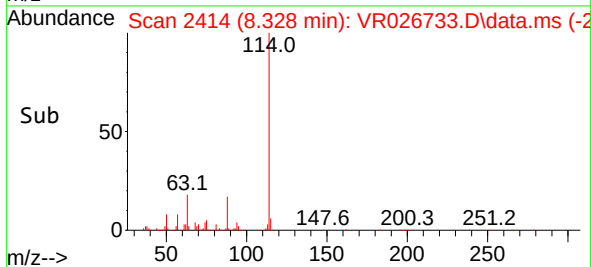
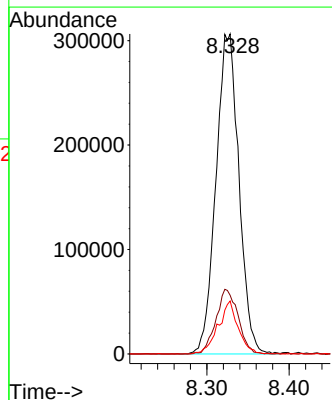
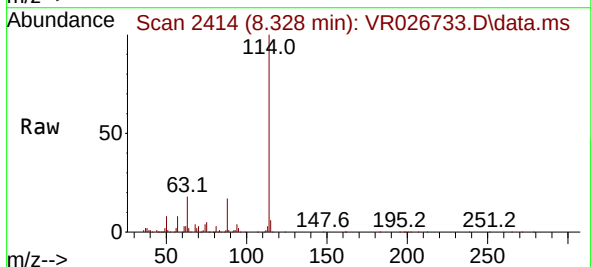
Tgt Ion: 114 Resp: 596001

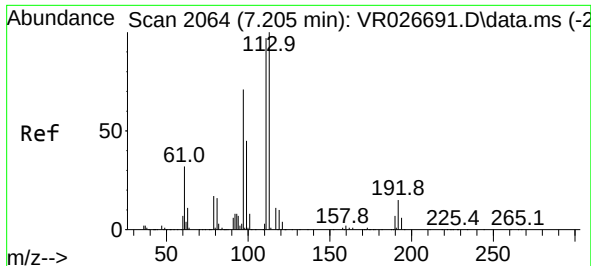
Ion Ratio Lower Upper

114 100

63 18.4 0.0 41.6

88 16.5 0.0 32.6

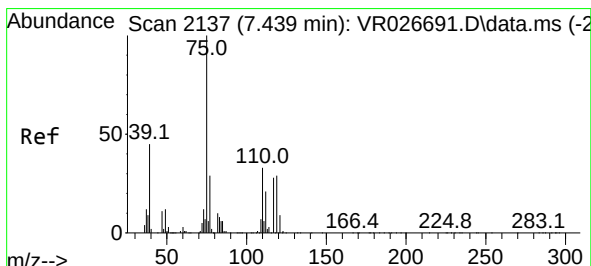
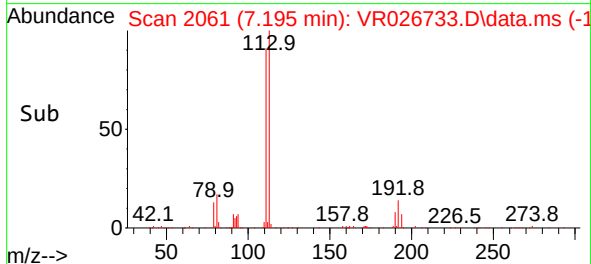
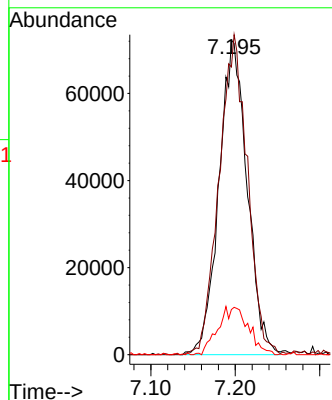
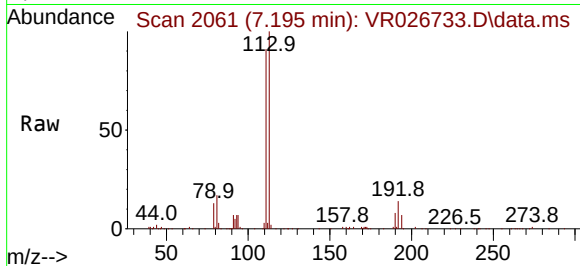




#34
Dibromofluoromethane
Concen: 45.395 ug/l
RT: 7.195 min Scan# 2061
Delta R.T. -0.010 min
Lab File: VR026733.D
Acq: 11 Aug 2025 11:09

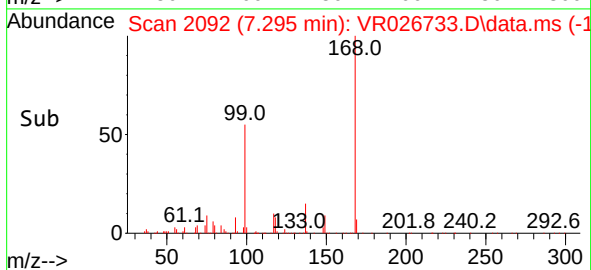
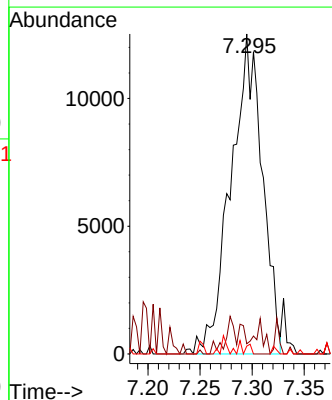
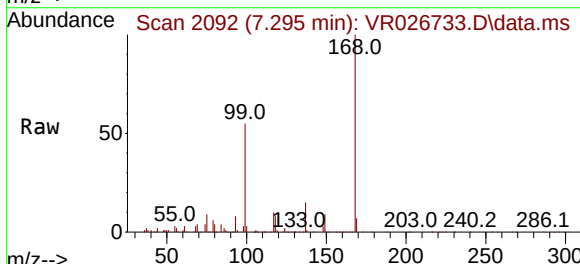
Instrument :
MSVOA_R
ClientSampleId :

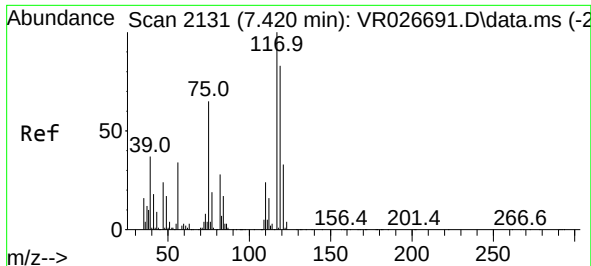
Tgt Ion:113 Resp: 167339
Ion Ratio Lower Upper
113 100
111 102.6 81.7 122.5
192 6.7 12.3 18.5#



#35
1,1-Dichloropropene
Concen: 5.666 ug/l
RT: 7.295 min Scan# 2092
Delta R.T. -0.144 min
Lab File: VR026733.D
Acq: 11 Aug 2025 11:09

Tgt Ion: 75 Resp: 26351
Ion Ratio Lower Upper
75 100
110 2.3 17.0 50.9#
77 0.5 24.6 37.0#

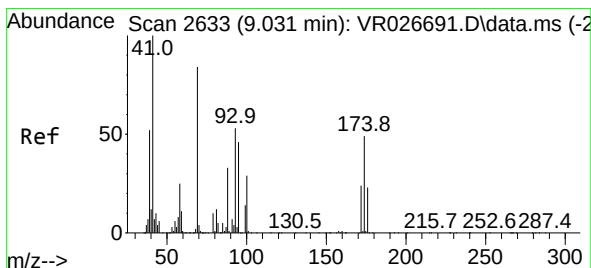
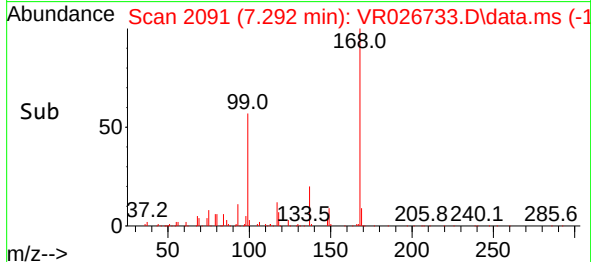
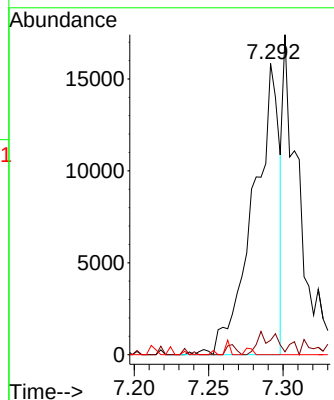
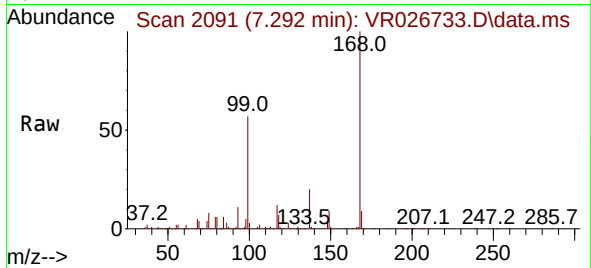




#37
Carbon Tetrachloride
Concen: 5.075 ug/l
RT: 7.292 min Scan# 2091
Delta R.T. -0.128 min
Lab File: VR026733.D
Acq: 11 Aug 2025 11:09

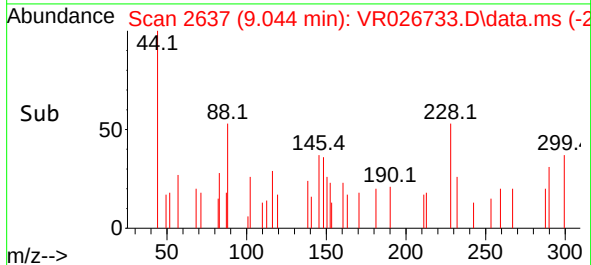
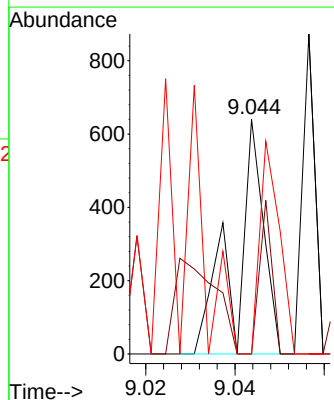
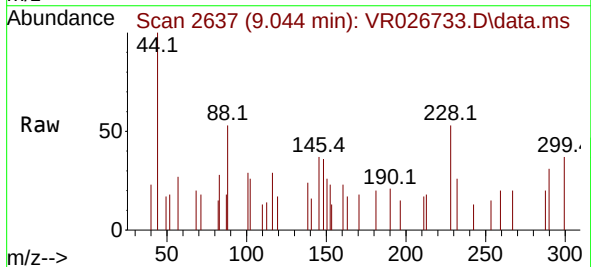
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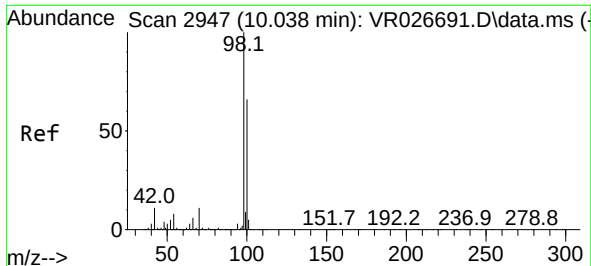
Tgt Ion:117 Resp: 19223
Ion Ratio Lower Upper
117 100
119 5.0 67.0 100.4#
121 0.0 26.3 39.5#



#48
1,4-Dioxane
Concen: 4.452 ug/l
RT: 9.044 min Scan# 2637
Delta R.T. 0.013 min
Lab File: VR026733.D
Acq: 11 Aug 2025 11:09

Tgt Ion: 88 Resp: 281
Ion Ratio Lower Upper
88 100
43 28.8 25.2 37.8
58 62.6 60.8 91.2

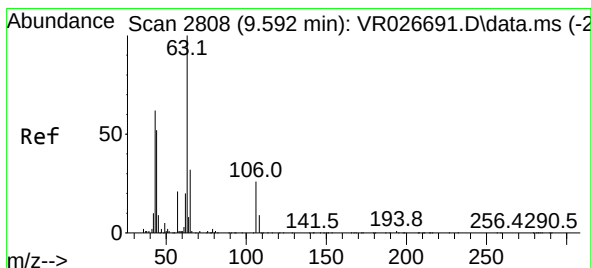
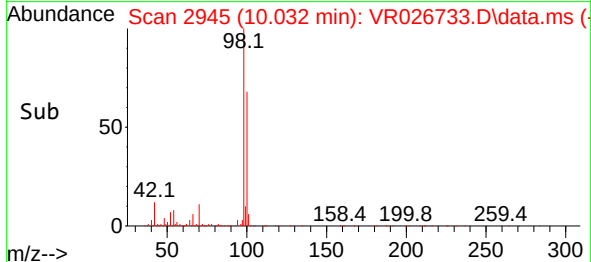
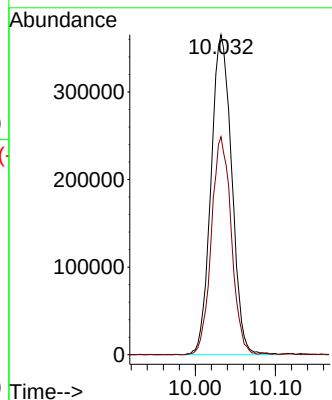
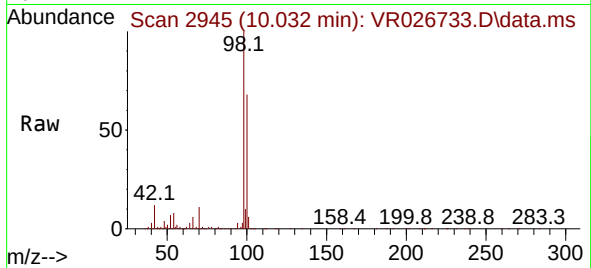




#49
Toluene-d8
Concen: 49.699 ug/l
RT: 10.032 min Scan# 2947
Delta R.T. -0.006 min
Lab File: VR026733.D
Acq: 11 Aug 2025 11:09

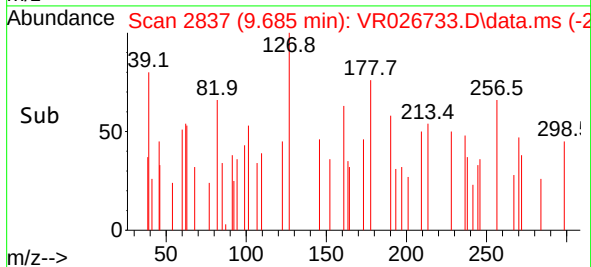
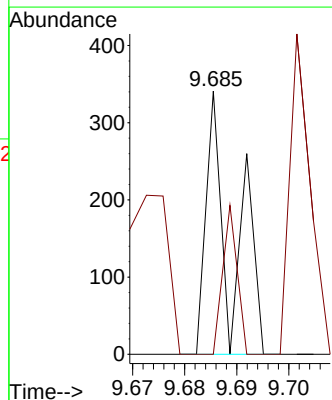
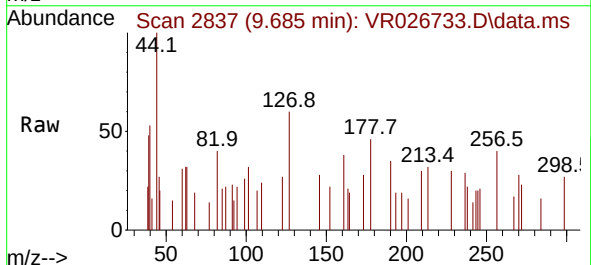
Instrument :
MSVOA_R
ClientSampleId :

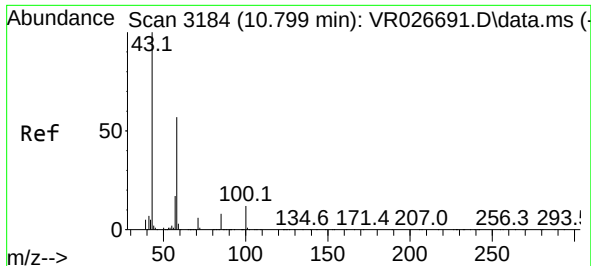
Tgt Ion: 98 Resp: 656362
Ion Ratio Lower Upper
98 100
100 65.4 53.9 80.9



#57
2-Chloroethyl Vinyl ether
Concen: 0.407 ug/l
RT: 9.685 min Scan# 2837
Delta R.T. 0.093 min
Lab File: VR026733.D
Acq: 11 Aug 2025 11:09

Tgt Ion: 63 Resp: 116
Ion Ratio Lower Upper
63 100
106 31.9 22.5 33.7

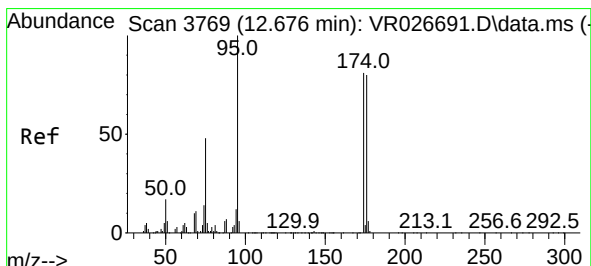
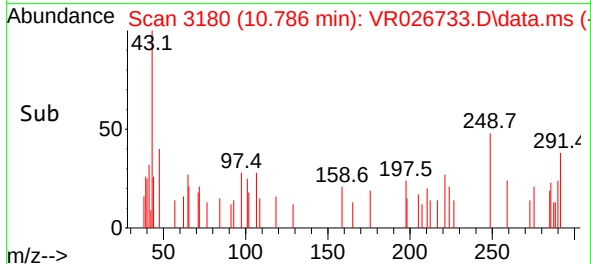
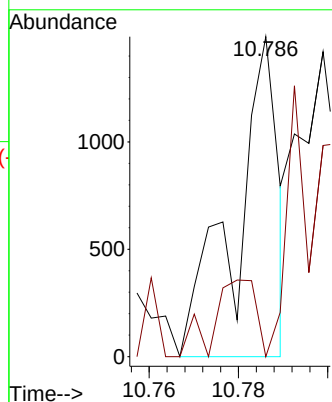
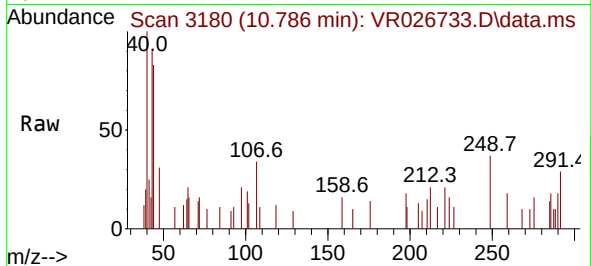




#58
2-Hexanone
Concen: 0.314 ug/l
RT: 10.786 min Scan# 3184
Delta R.T. -0.013 min
Lab File: VR026733.D
Acq: 11 Aug 2025 11:09

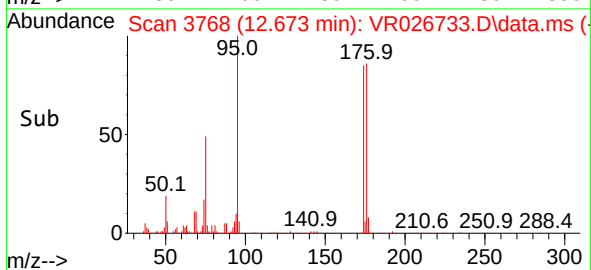
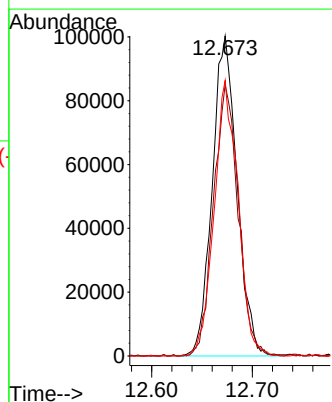
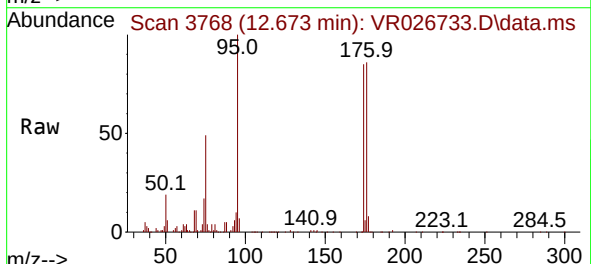
Instrument :
MSVOA_R
ClientSampleId :

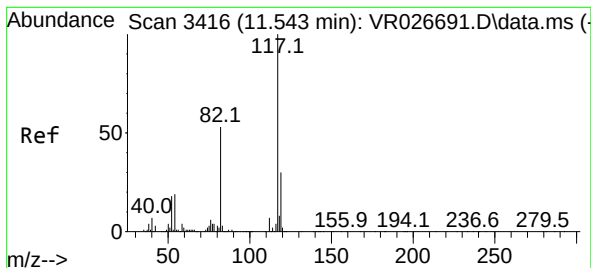
Tgt Ion: 43 Resp: 988
Ion Ratio Lower Upper
43 100
58 36.2 28.8 86.4



#61
4-Bromofluorobenzene
Concen: 45.821 ug/l
RT: 12.673 min Scan# 3768
Delta R.T. -0.003 min
Lab File: VR026733.D
Acq: 11 Aug 2025 11:09

Tgt Ion: 95 Resp: 172120
Ion Ratio Lower Upper
95 100
174 83.7 0.0 158.4
176 83.1 0.0 149.0





#62

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.537 min Scan# 3416

Delta R.T. -0.006 min

Lab File: VR026733.D

Acq: 11 Aug 2025 11:09

Instrument :

MSVOA_R

ClientSampleId :

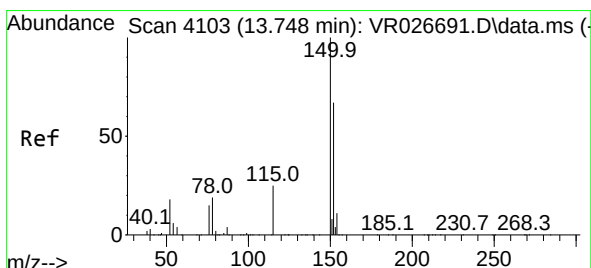
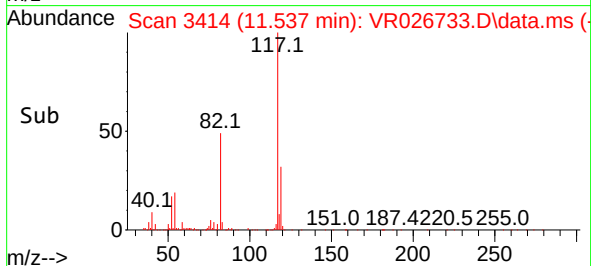
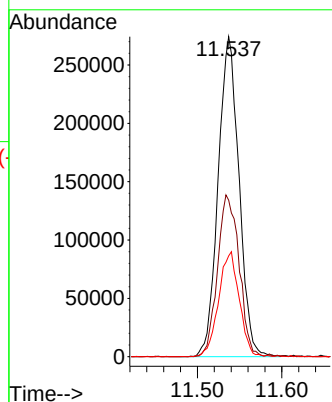
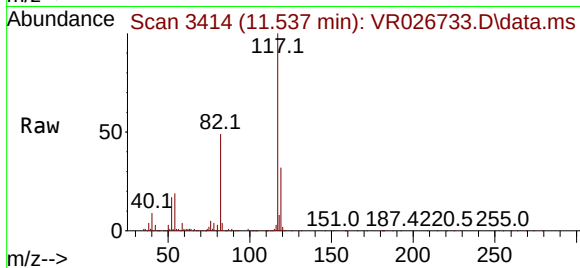
Tgt Ion:117 Resp: 470228

Ion Ratio Lower Upper

117 100

82 48.9 42.0 63.0

119 31.5 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: VR026733.D

Acq: 11 Aug 2025 11:09

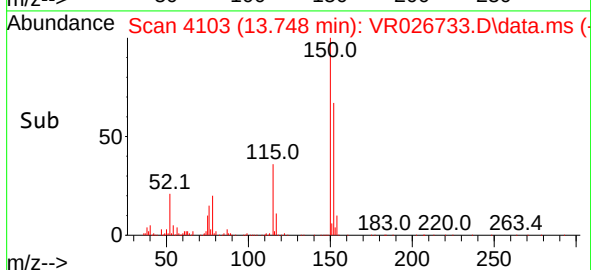
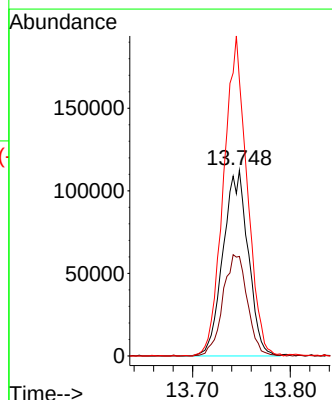
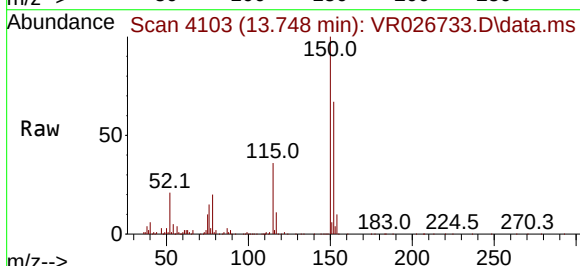
Tgt Ion:152 Resp: 200784

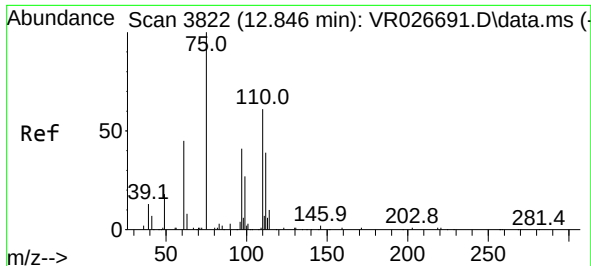
Ion Ratio Lower Upper

152 100

115 53.1 27.8 83.4

150 161.3 0.0 350.4

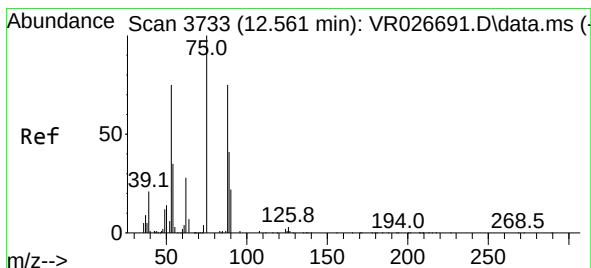
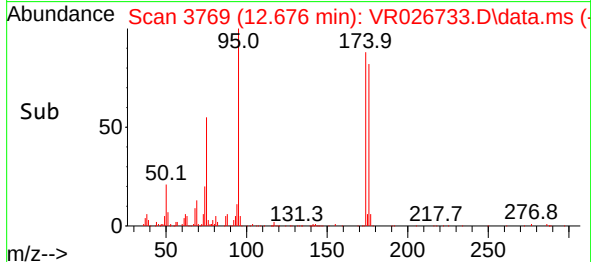
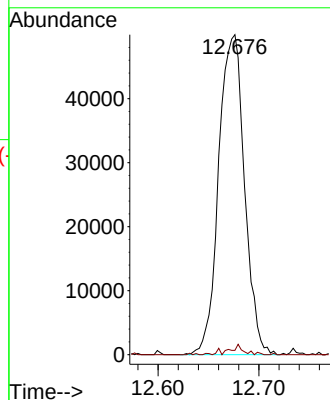
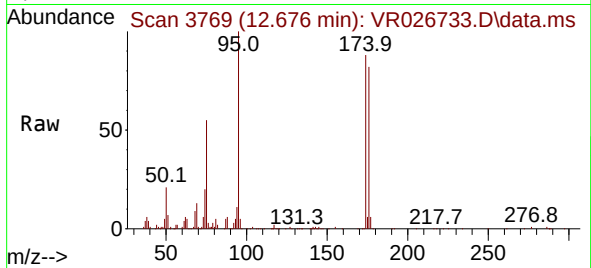




#75
1,2,3-Trichloropropane
Concen: 26.732 ug/l
RT: 12.676 min Scan# 3769
Delta R.T. -0.170 min
Lab File: VR026733.D
Acq: 11 Aug 2025 11:09

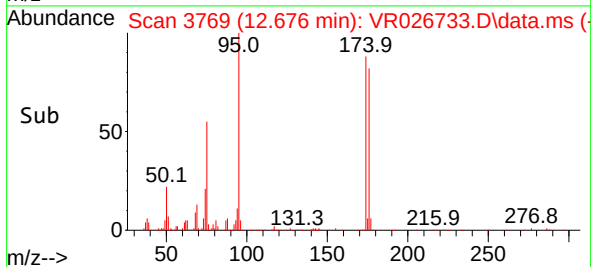
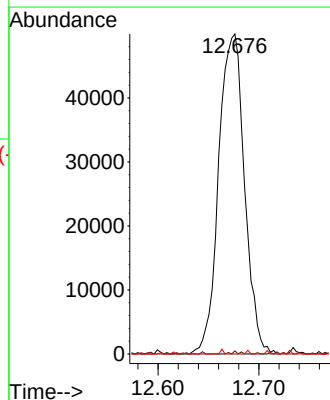
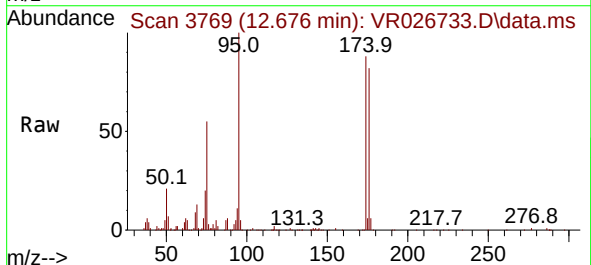
Instrument :
MSVOA_R
ClientSampleId :

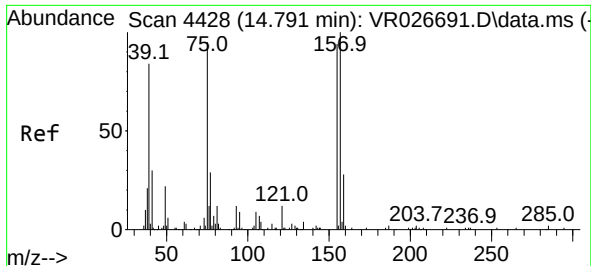
Tgt Ion: 75 Resp: 88971
Ion Ratio Lower Upper
75 100
77 1.3 0.0 0.0#



#80
trans-1,4-Dichloro-2-butene
Concen: 77.860 ug/l
RT: 12.676 min Scan# 3769
Delta R.T. 0.116 min
Lab File: VR026733.D
Acq: 11 Aug 2025 11:09

Tgt Ion: 75 Resp: 88971
Ion Ratio Lower Upper
75 100
53 0.2 67.8 101.6#
89 0.2 34.6 52.0#

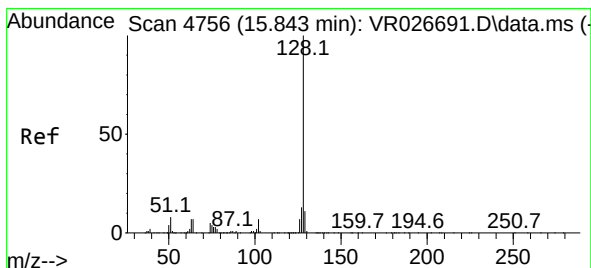
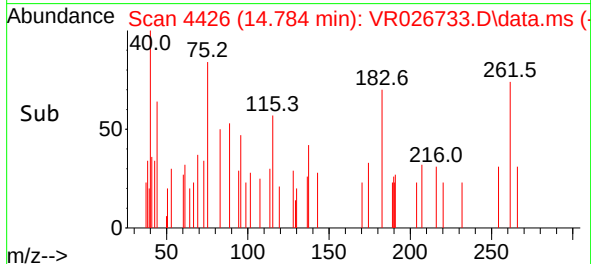
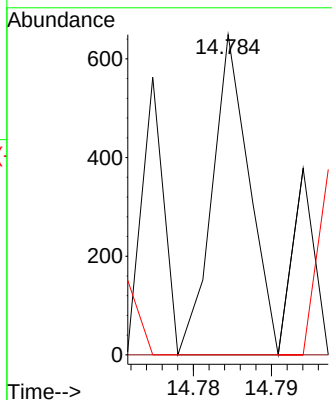
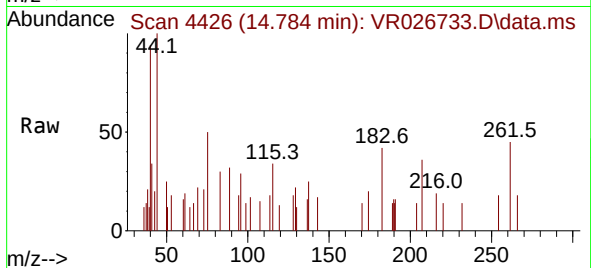




#91
1,2-Dibromo-3-Chloropropane
Concen: 0.381 ug/l
RT: 14.784 min Scan# 4428
Delta R.T. -0.006 min
Lab File: VR026733.D
Acq: 11 Aug 2025 11:09

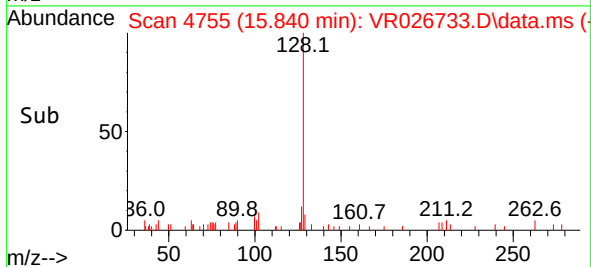
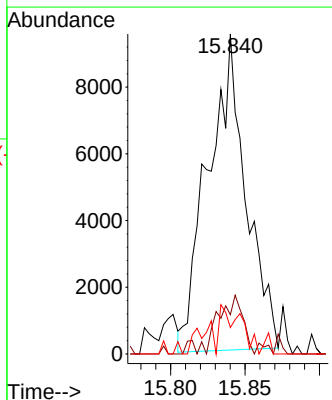
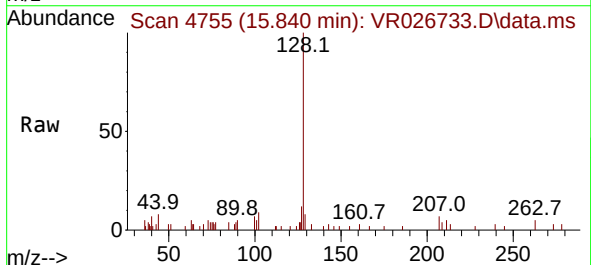
Instrument :
MSVOA_R
ClientSampleId :

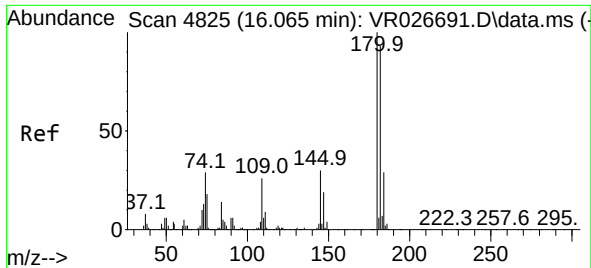
Tgt Ion: 75 Resp: 213
Ion Ratio Lower Upper
75 100
155 0.0 48.0 144.2#
157 0.0 59.5 178.4#



#94
Naphthalene
Concen: 1.503 ug/l
RT: 15.840 min Scan# 4755
Delta R.T. -0.003 min
Lab File: VR026733.D
Acq: 11 Aug 2025 11:09

Tgt Ion: 128 Resp: 16796
Ion Ratio Lower Upper
128 100
127 12.0 9.8 14.8
129 4.0 8.6 13.0#





#95
 1,2,3-Trichlorobenzene
 Concen: 0.616 ug/l
 RT: 16.068 min Scan# 4825
 Delta R.T. 0.003 min
 Lab File: VR026733.D
 Acq: 11 Aug 2025 11:09

Instrument :
 MSVOA_R
 ClientSampleId :

Tgt Ion	Ratio	Lower	Upper
180	100		
182	31.0	47.2	141.6#
145	27.5	15.5	46.5

