

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081325\
 Data File : VN087545.D
 Acq On : 13 Aug 2025 18:56
 Operator : JC\MD
 Sample : Q2836-05
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 14 04:06:19 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 17 02:56:13 2025
 Response via : Initial Calibration

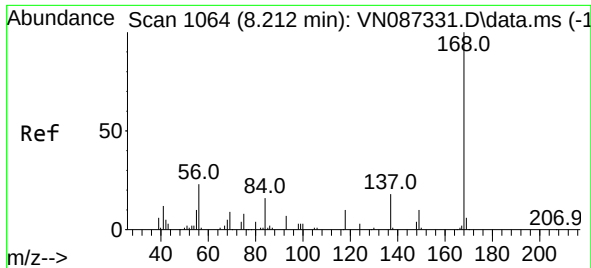
Compound	R.T. QIon		Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.212	168	266901	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.088	114	539961	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	488726	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	223776	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	268865	59.369	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	118.740%
35) Dibromofluoromethane	8.147	113	364	0.098	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	0.200%#
50) Toluene-d8	10.547	98	645476	48.582	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	97.160%
62) 4-Bromofluorobenzene	12.829	95	240812	49.059	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	98.120%
Target Compounds						
					Qvalue	
10) Methyl Iodide	4.677	142	55	5.649	ug/l #	40
11) Tert butyl alcohol	5.536	59	318	0.370	ug/l #	1
13) Acrolein	4.171	56	236	0.342	ug/l #	1
16) Acetone	4.424	43	282383	132.986	ug/l	95
18) Methyl Acetate	5.024	43	3166	0.593	ug/l #	81
20) Methylene Chloride	5.277	84	13733	3.227	ug/l #	88
25) 2-Butanone	7.477	43	29686	9.048	ug/l	96
29) Tetrahydrofuran	7.847	42	2491	1.169	ug/l #	69
31) Cyclohexane	8.200	56	8793	1.579	ug/l #	49
36) 1,1-Dichloropropene	8.212	75	26635	5.413	ug/l #	52
37) Ethyl Acetate	7.477	43	29686	4.177	ug/l #	71
38) Carbon Tetrachloride	8.212	117	31858	5.877	ug/l #	13
48) Methyl methacrylate	9.653	41	2589	0.521	ug/l #	25
51) 4-Methyl-2-Pentanone	10.435	43	8448	1.211	ug/l	94
56) Ethyl methacrylate	10.965	69	216	0.668	ug/l #	1
59) 2-Hexanone	11.153	43	22056	4.764	ug/l #	25
76) 1,2,3-Trichloropropane	12.829	75	137035	27.309	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	137035	74.721	ug/l #	8
95) Naphthalene	15.611	128	56248	3.980	ug/l	98

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

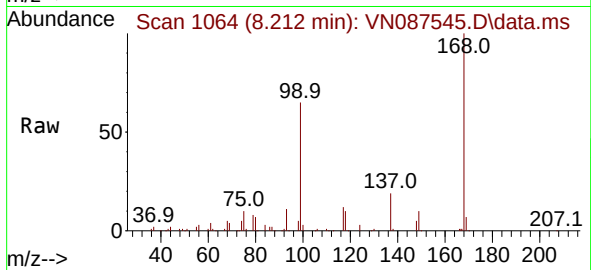
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Quant Title : SW846 8260
QLast Update : Thu Jul 17 02:56:13 2025
Response via : Initial Calibration



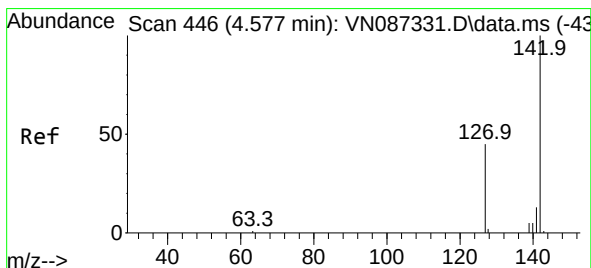
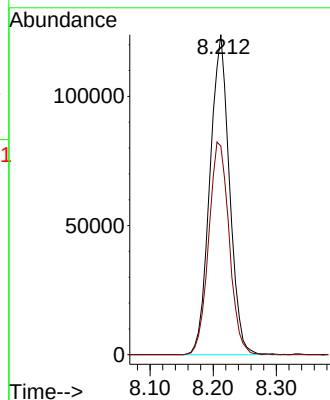
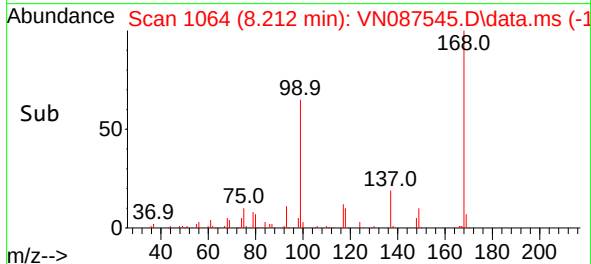


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. -0.000 min
Lab File: VN087545.D
Acq: 13 Aug 2025 18:56

Instrument :
MSVOA_N
ClientSampleId :

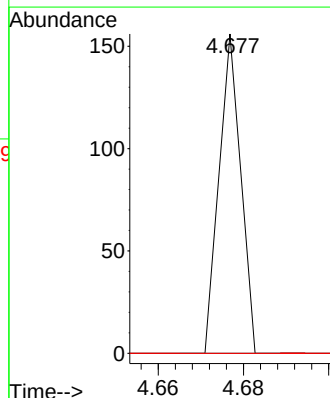
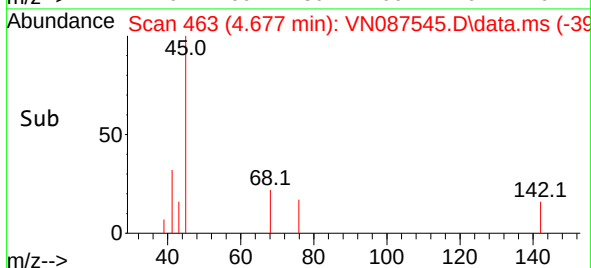
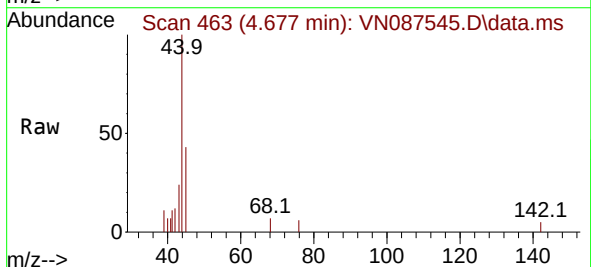


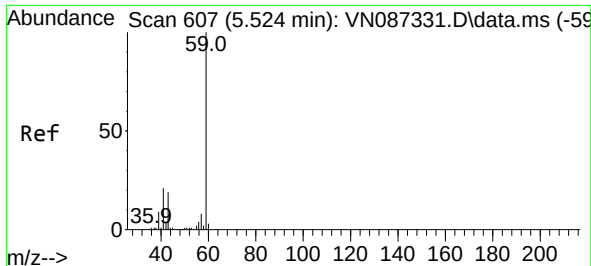
Tgt Ion:168 Resp: 266901
Ion Ratio Lower Upper
168 100
99 65.1 47.9 71.9



#10
Methyl Iodide
Concen: 5.649 ug/l
RT: 4.677 min Scan# 463
Delta R.T. 0.100 min
Lab File: VN087545.D
Acq: 13 Aug 2025 18:56

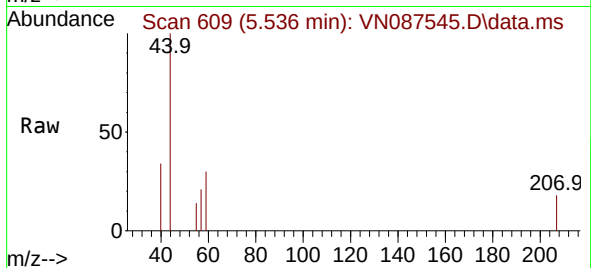
Tgt Ion:142 Resp: 55
Ion Ratio Lower Upper
142 100
127 0.0 35.7 53.5#
141 0.0 10.4 15.6#



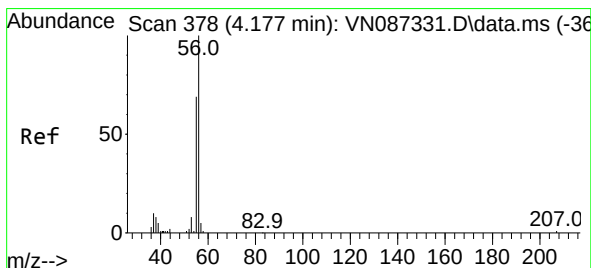
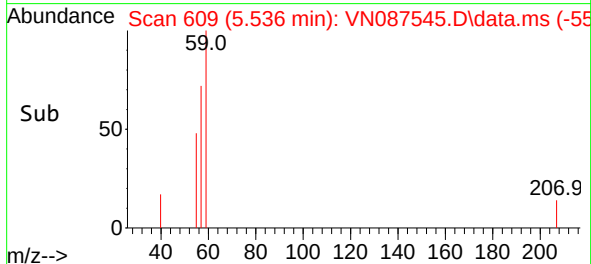
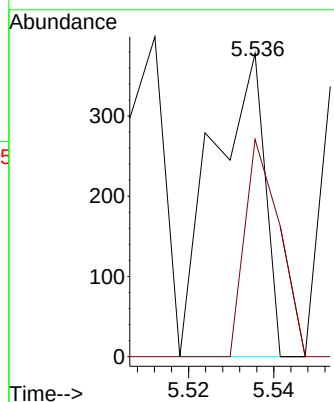


#11
Tert butyl alcohol
Concen: 0.370 ug/l
RT: 5.536 min Scan# 607
Delta R.T. 0.012 min
Lab File: VN087545.D
Acq: 13 Aug 2025 18:56

Instrument :
MSVOA_N
ClientSampleId :

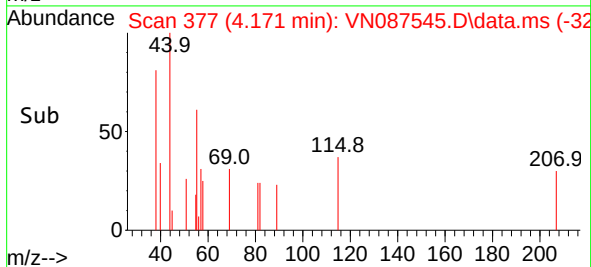
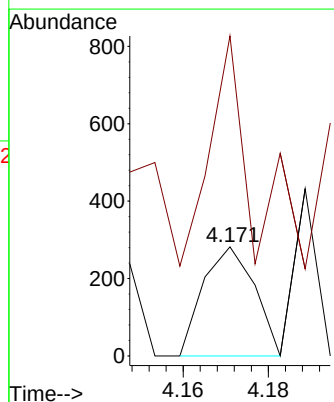
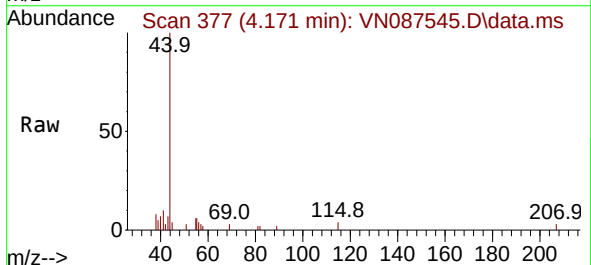


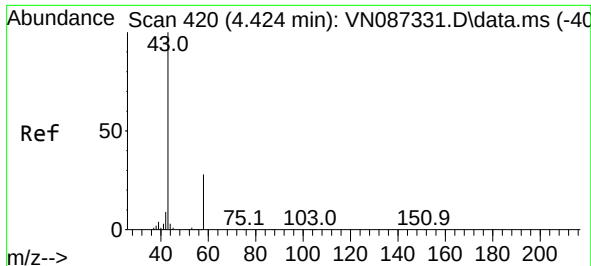
Tgt Ion: 59 Resp: 318
Ion Ratio Lower Upper
59 100
57 48.1 8.3 12.5#



#13
Acrolein
Concen: 0.342 ug/l
RT: 4.171 min Scan# 377
Delta R.T. -0.006 min
Lab File: VN087545.D
Acq: 13 Aug 2025 18:56

Tgt Ion: 56 Resp: 236
Ion Ratio Lower Upper
56 100
55 213.1 56.2 84.4#

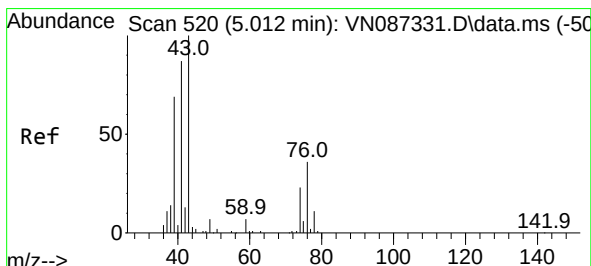
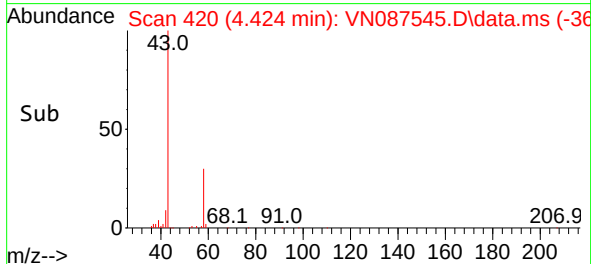
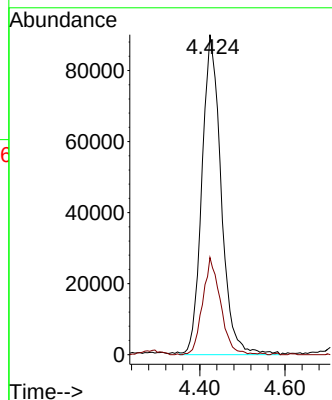
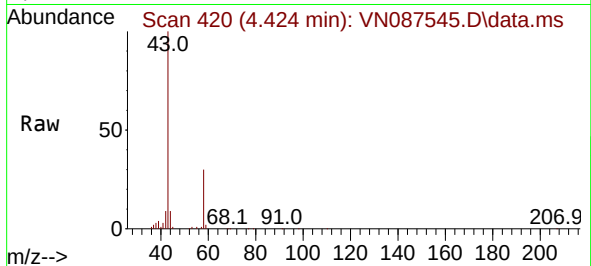




#16
Acetone
Concen: 132.986 ug/l
RT: 4.424 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN087545.D
Acq: 13 Aug 2025 18:56

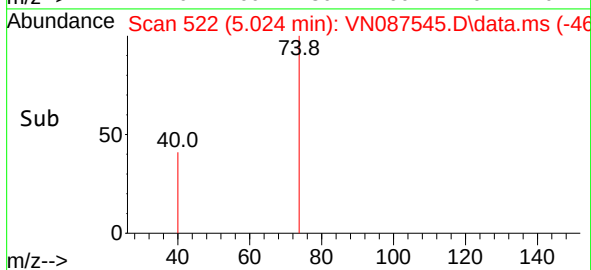
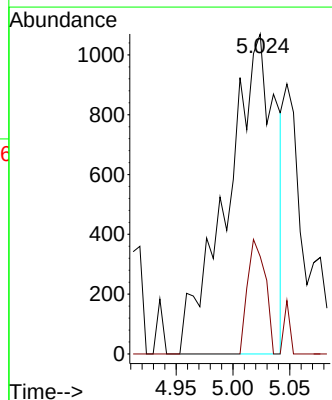
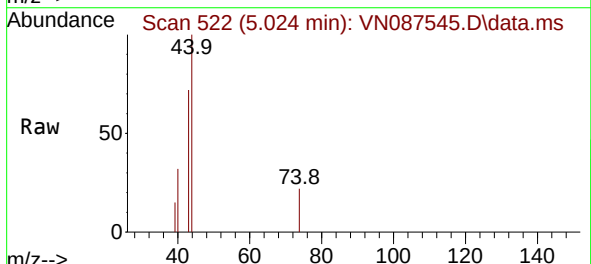
Instrument :
MSVOA_N
ClientSampleId :

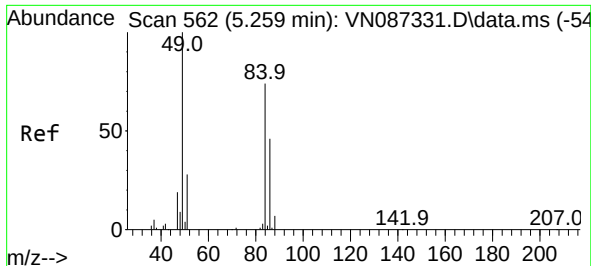
Tgt Ion: 43 Resp: 282383
Ion Ratio Lower Upper
43 100
58 30.3 22.3 33.5



#18
Methyl Acetate
Concen: 0.593 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.012 min
Lab File: VN087545.D
Acq: 13 Aug 2025 18:56

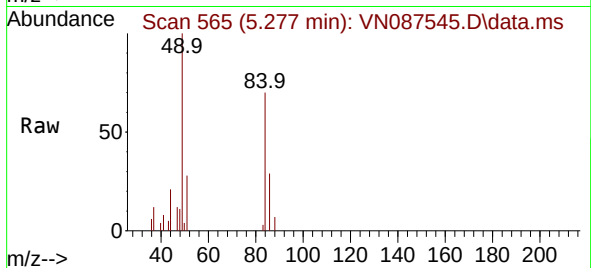
Tgt Ion: 43 Resp: 3166
Ion Ratio Lower Upper
43 100
74 13.1 17.8 26.6#



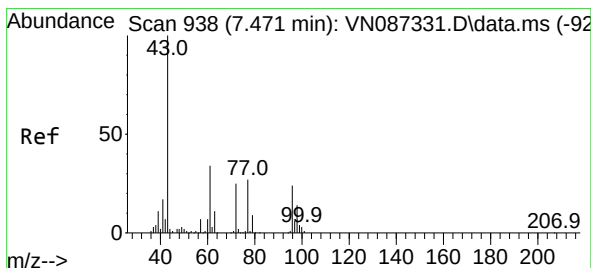
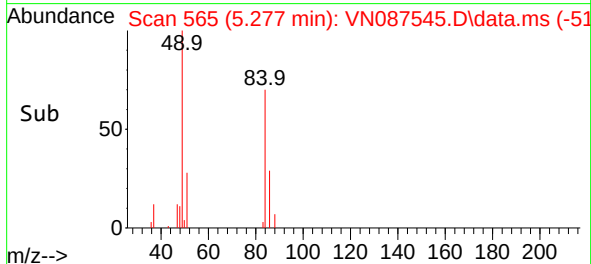
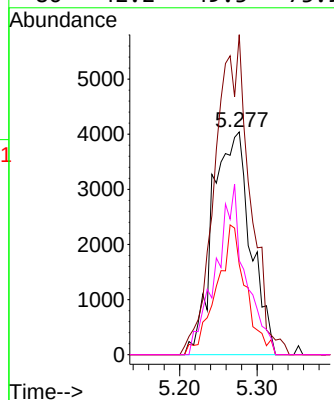


#20
Methylene Chloride
Concen: 3.227 ug/l
RT: 5.277 min Scan# 50
Delta R.T. 0.018 min
Lab File: VN087545.D
Acq: 13 Aug 2025 18:56

Instrument :
MSVOA_N
ClientSampleId :

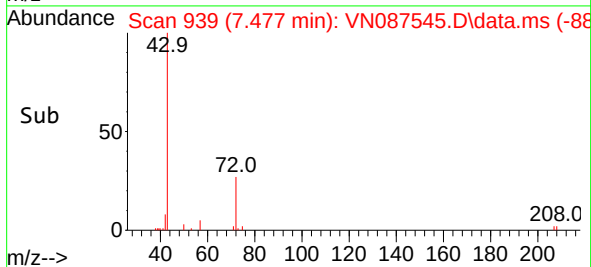
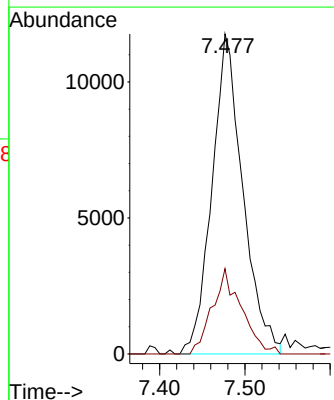
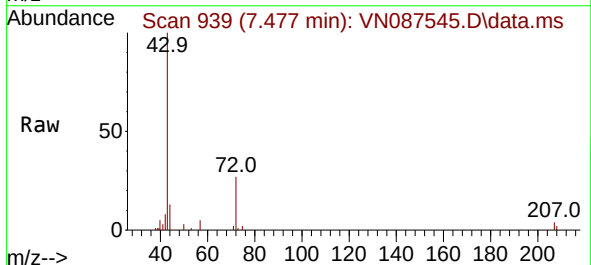


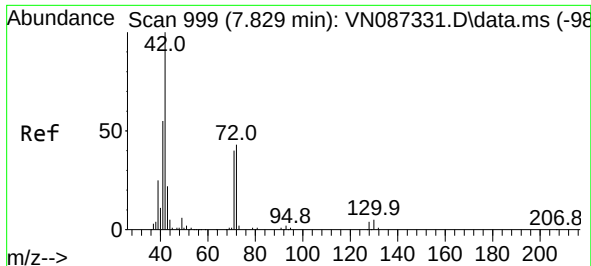
Tgt Ion: 84 Resp: 13733
Ion Ratio Lower Upper
84 100
49 143.6 107.5 161.3
51 40.5 30.2 45.2
86 42.2 49.3 73.9#



#25
2-Butanone
Concen: 9.048 ug/l
RT: 7.477 min Scan# 939
Delta R.T. 0.006 min
Lab File: VN087545.D
Acq: 13 Aug 2025 18:56

Tgt Ion: 43 Resp: 29686
Ion Ratio Lower Upper
43 100
72 26.7 19.6 29.4





#29

Tetrahydrofuran

Concen: 1.169 ug/l

RT: 7.847 min Scan# 1002

Delta R.T. 0.018 min

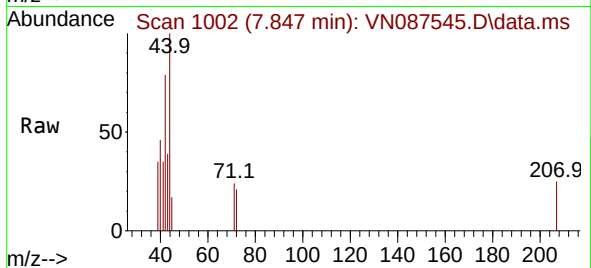
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Acq: 13 Aug 2025 18:56

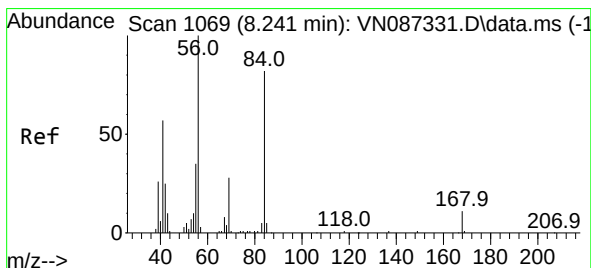
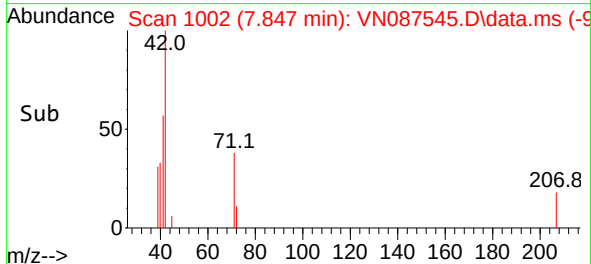
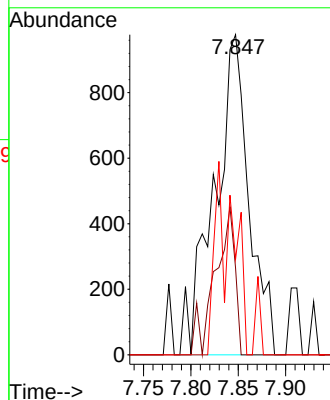
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	42	Resp:	2491
Ion Ratio	100	Lower	Upper
42	100		
72	26.5	33.4	50.0#
71	15.1	31.2	46.8#



#31

Cyclohexane

Concen: 1.579 ug/l

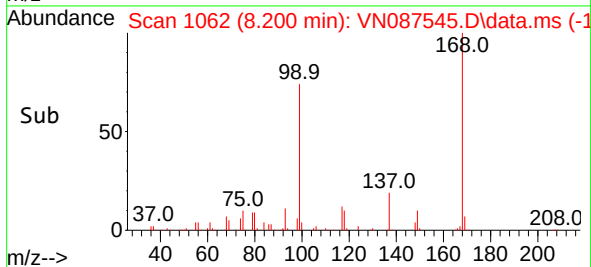
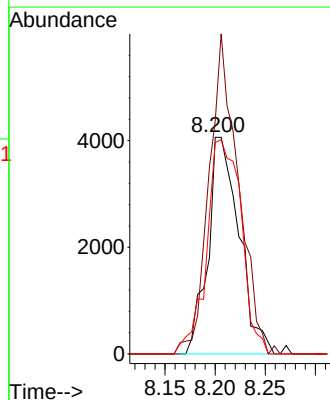
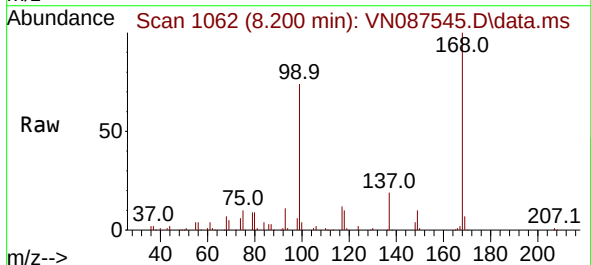
RT: 8.200 min Scan# 1062

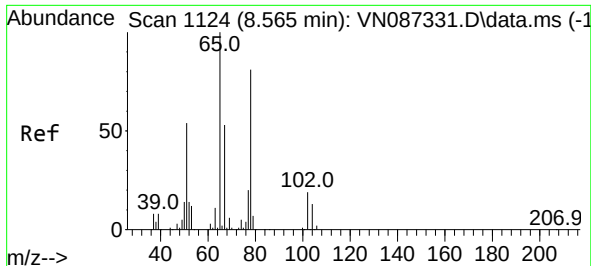
Delta R.T. -0.041 min

Lab File: VN087545.D

Acq: 13 Aug 2025 18:56

Tgt Ion:	56	Resp:	8793
Ion Ratio	100	Lower	Upper
56	100		
69	107.5	22.7	34.1#
84	97.7	65.8	98.6





#33

1,2-Dichloroethane-d4

Concen: 59.369 ug/l

RT: 8.565 min Scan# 1124

Delta R.T. 0.000 min

Lab File: VN087545.D

Acq: 13 Aug 2025 18:56

Instrument :

MSVOA_N

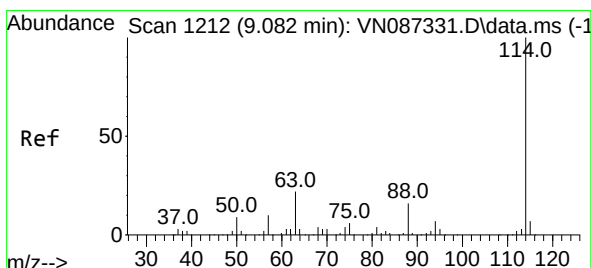
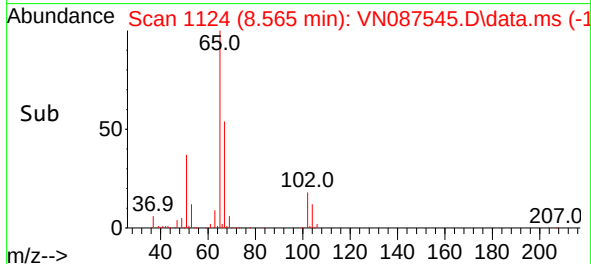
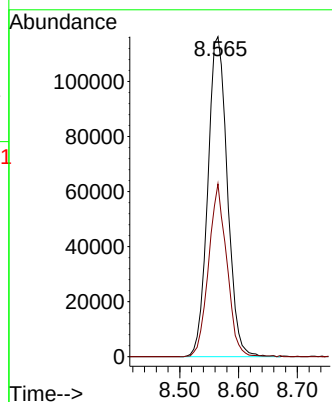
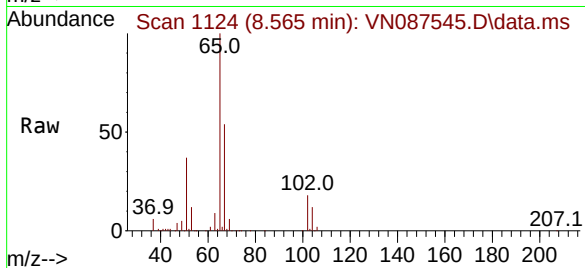
ClientSampleId :

Tgt Ion: 65 Resp: 268865

Ion Ratio Lower Upper

65 100

67 50.4 0.0 104.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.088 min Scan# 1213

Delta R.T. 0.006 min

Lab File: VN087545.D

Acq: 13 Aug 2025 18:56

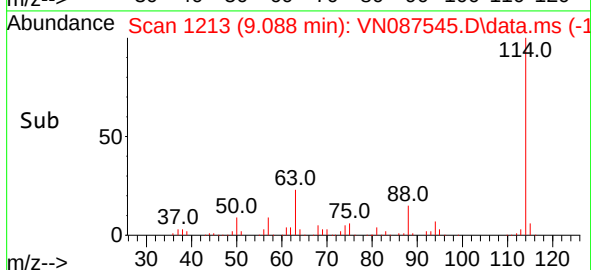
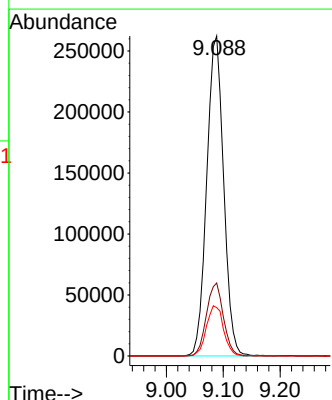
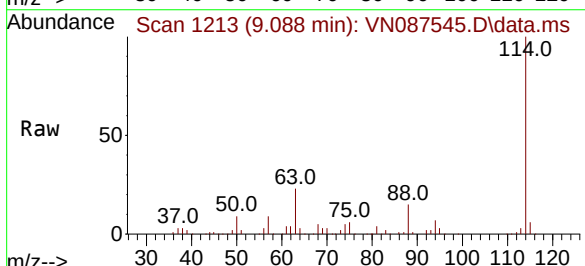
Tgt Ion: 114 Resp: 539961

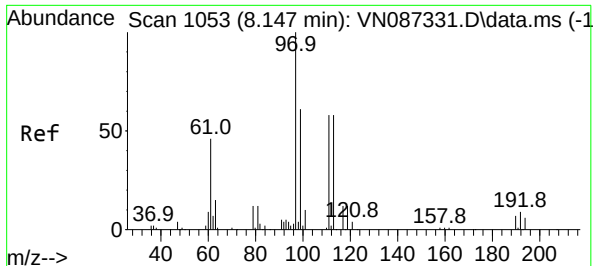
Ion Ratio Lower Upper

114 100

63 22.8 0.0 44.6

88 15.1 0.0 32.8





#35

Dibromofluoromethane

Concen: 0.098 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. 0.000 min

Lab File: VN087545.D

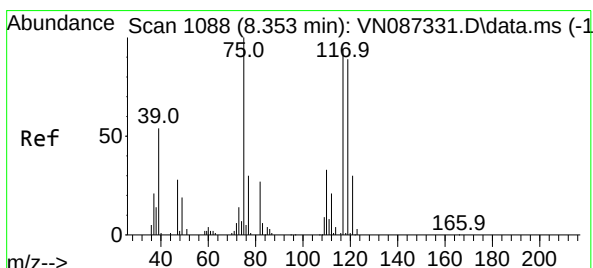
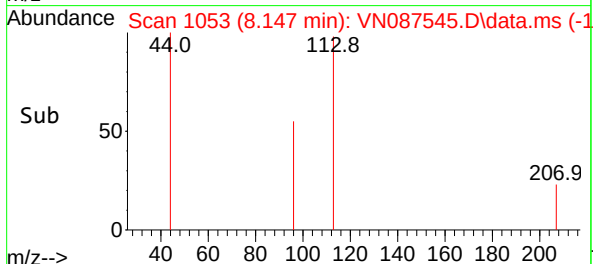
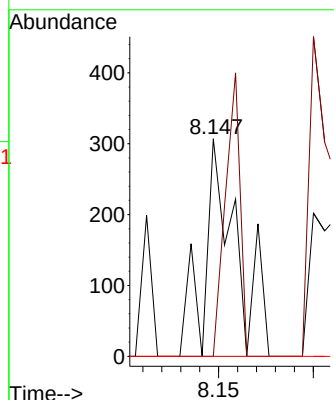
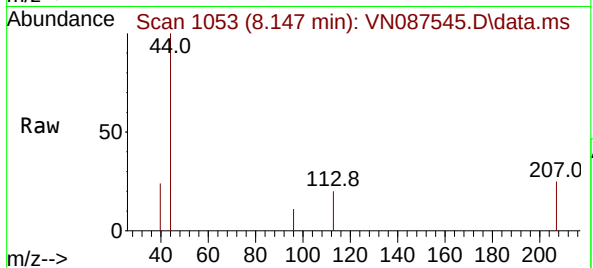
Acq: 13 Aug 2025 18:56

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:113	Resp:	364
Ion	Ratio	Lower Upper
113	100	
111	59.3	82.5 123.7#
192	0.0	13.7 20.5#



#36

1,1-Dichloropropene

Concen: 5.413 ug/l

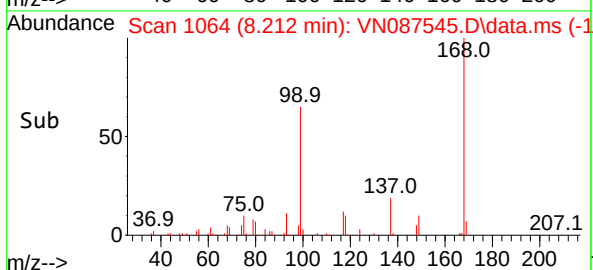
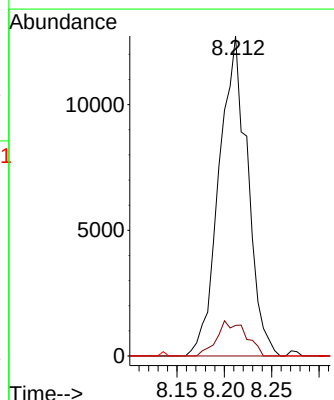
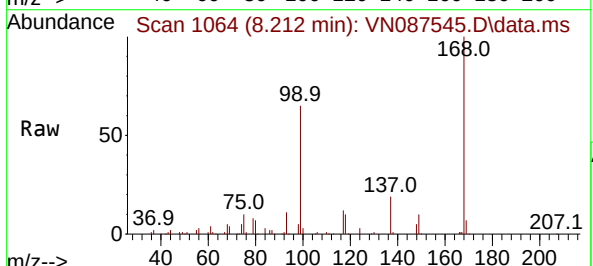
RT: 8.212 min Scan# 1064

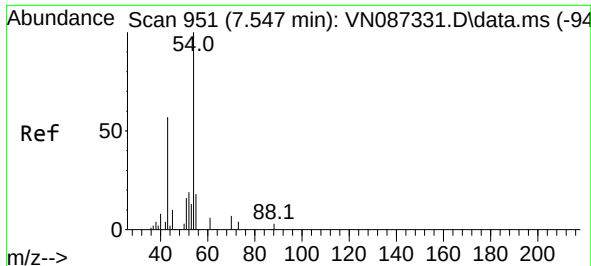
Delta R.T. -0.141 min

Lab File: VN087545.D

Acq: 13 Aug 2025 18:56

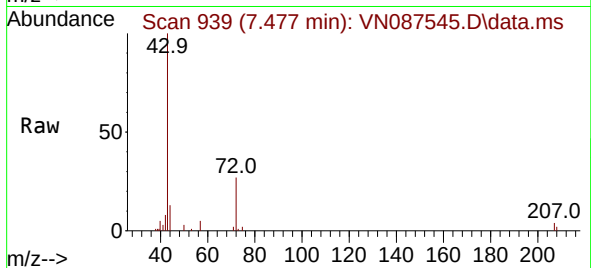
Tgt Ion: 75	Resp:	26635
Ion	Ratio	Lower Upper
75	100	
110	11.2	16.7 50.1#
77	0.0	25.2 37.8#



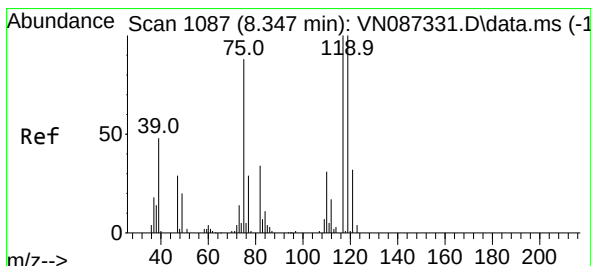
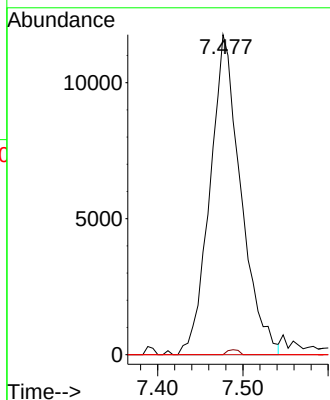
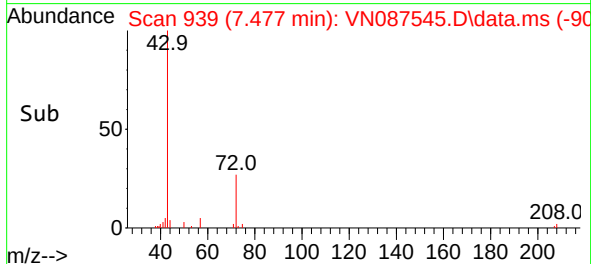


#37
Ethyl Acetate
Concen: 4.177 ug/l
RT: 7.477 min Scan# 91
Delta R.T. -0.071 min
Lab File: VN087545.D
Acq: 13 Aug 2025 18:56

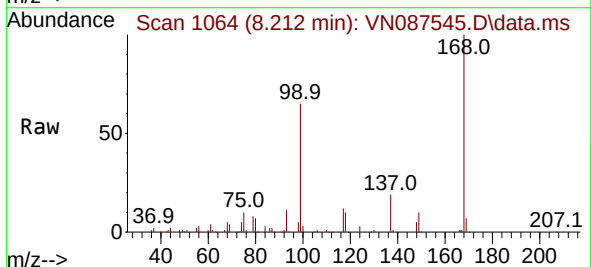
Instrument :
MSVOA_N
ClientSampleId :



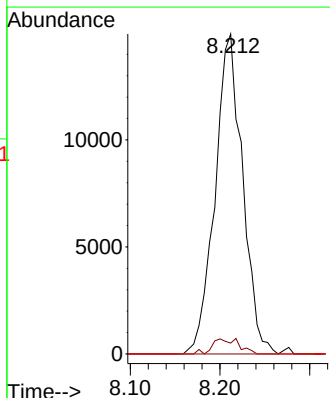
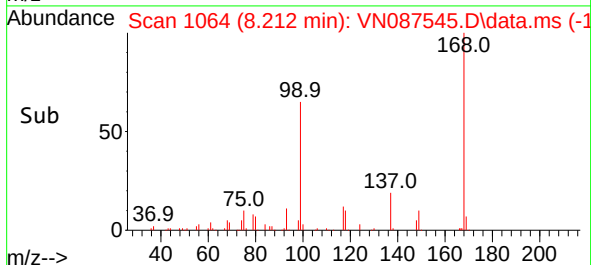
Tgt Ion: 43 Resp: 29686
Ion Ratio Lower Upper
43 100
61 0.6 10.9 16.3#
70 0.0 7.4 11.0#

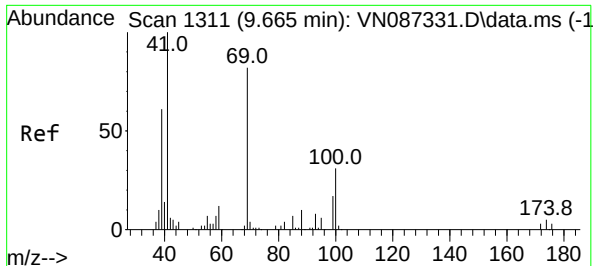


#38
Carbon Tetrachloride
Concen: 5.877 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. -0.135 min
Lab File: VN087545.D
Acq: 13 Aug 2025 18:56



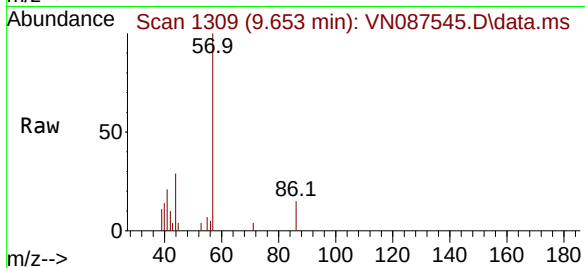
Tgt Ion: 117 Resp: 31858
Ion Ratio Lower Upper
117 100
119 3.4 80.2 120.2#
121 0.0 25.4 38.2#



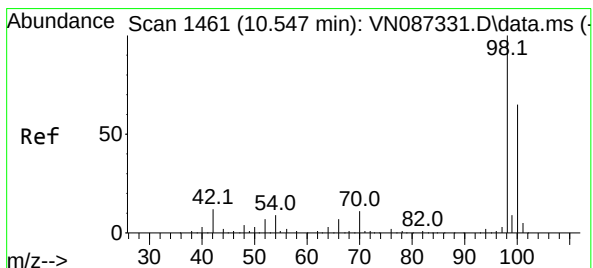
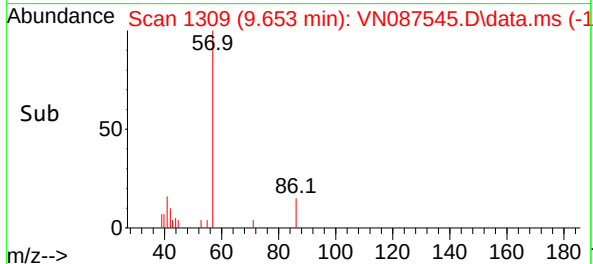
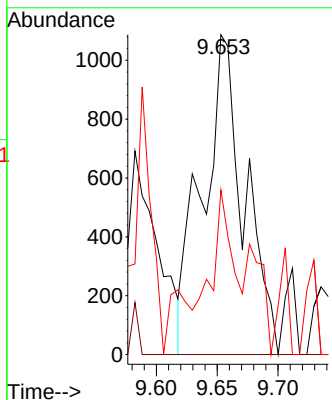


#48
Methyl methacrylate
Concen: 0.521 ug/l
RT: 9.653 min Scan# 1309
Delta R.T. -0.012 min
Lab File: VN087545.D
Acq: 13 Aug 2025 18:56

Instrument :
MSVOA_N
ClientSampleId :

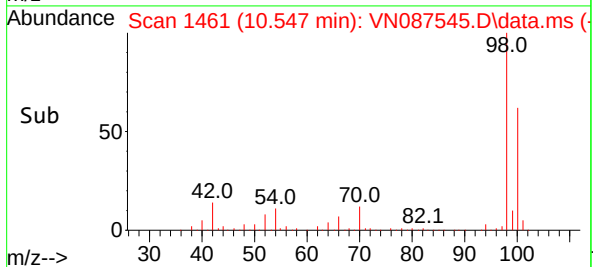
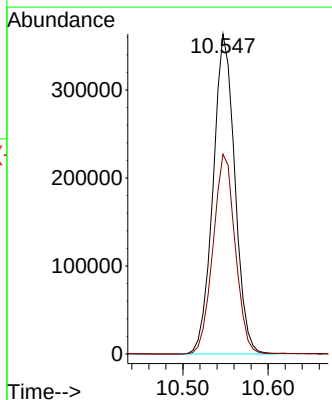
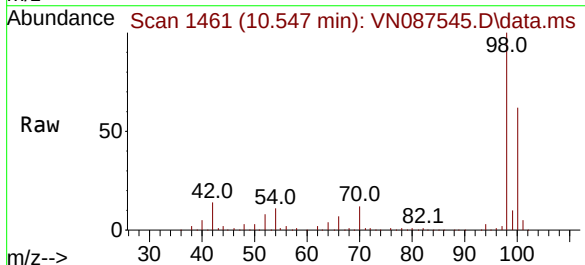


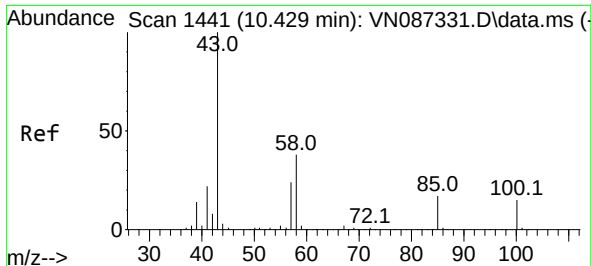
Tgt Ion: 41 Resp: 2589
Ion Ratio Lower Upper
41 100
69 0.0 64.1 96.1#
39 18.7 45.5 68.3#



#50
Toluene-d8
Concen: 48.582 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. 0.000 min
Lab File: VN087545.D
Acq: 13 Aug 2025 18:56

Tgt Ion: 98 Resp: 645476
Ion Ratio Lower Upper
98 100
100 63.7 52.1 78.1





#51

4-Methyl-2-Pentanone

Concen: 1.211 ug/l

RT: 10.435 min Scan# 1441

Delta R.T. 0.006 min

Lab File: VN087545.D

Acq: 13 Aug 2025 18:56

Instrument :

MSVOA_N

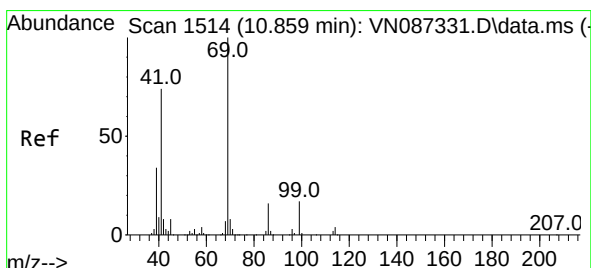
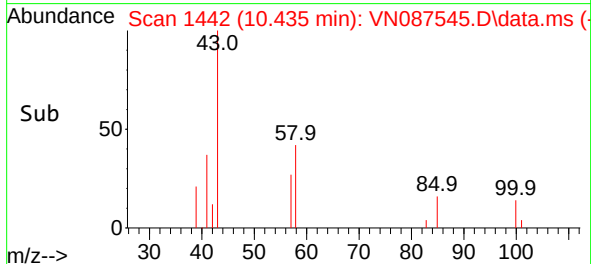
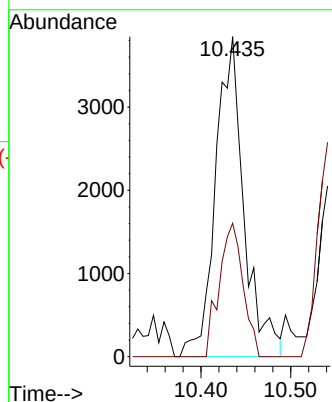
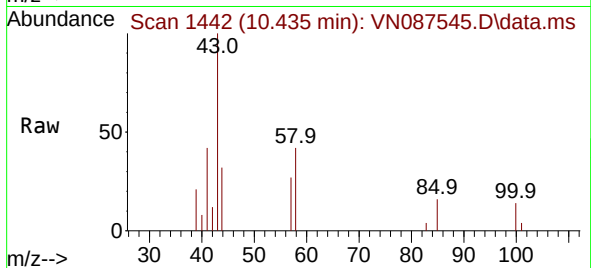
ClientSampleId :

Tgt Ion: 43 Resp: 8448

Ion Ratio Lower Upper

43 100

58 35.0 30.8 46.2



#56

Ethyl methacrylate

Concen: 0.668 ug/l

RT: 10.965 min Scan# 1532

Delta R.T. 0.106 min

Lab File: VN087545.D

Acq: 13 Aug 2025 18:56

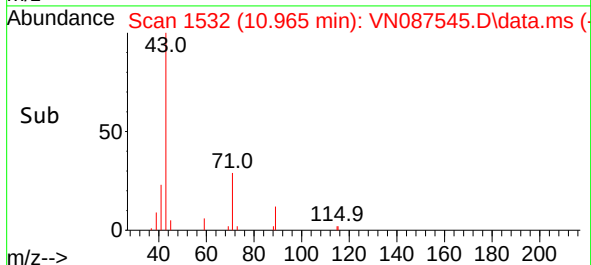
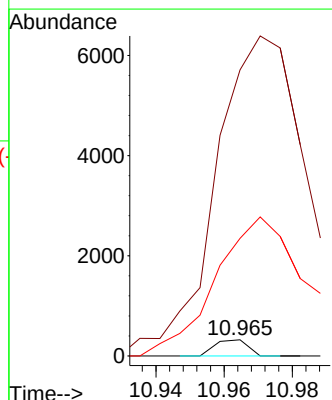
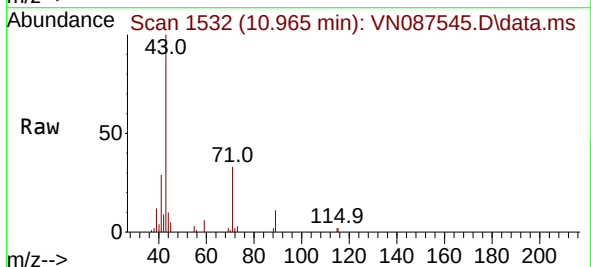
Tgt Ion: 69 Resp: 216

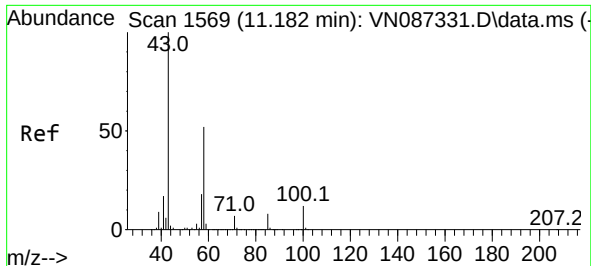
Ion Ratio Lower Upper

69 100

41 5848.1 55.1 82.7#

39 2502.3 27.9 41.9#

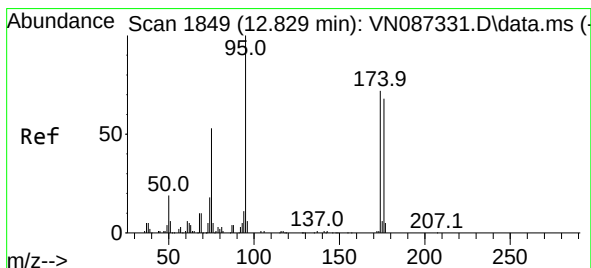
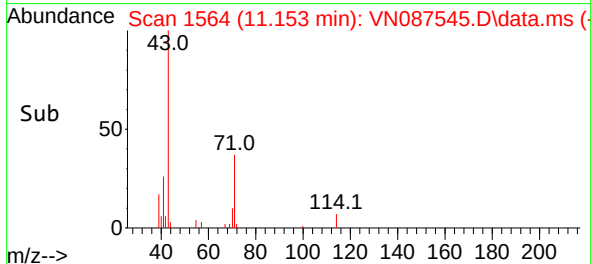
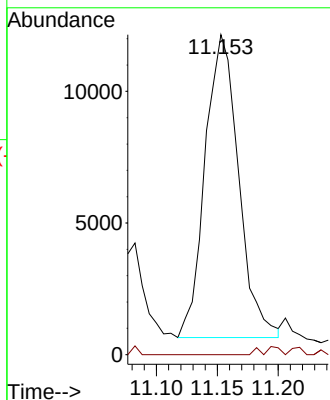
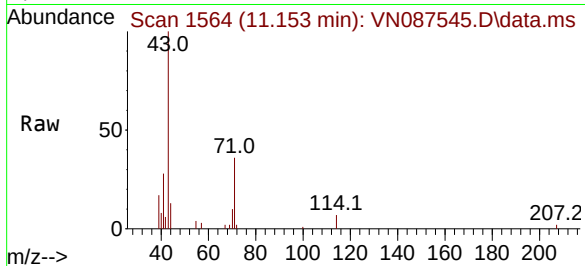




#59
2-Hexanone
Concen: 4.764 ug/l
RT: 11.153 min Scan# 11
Delta R.T. -0.029 min
Lab File: VN087545.D
Acq: 13 Aug 2025 18:56

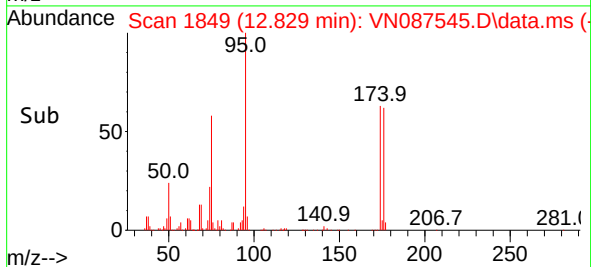
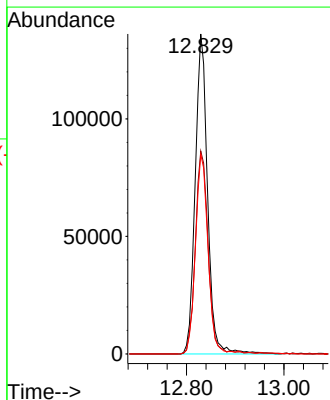
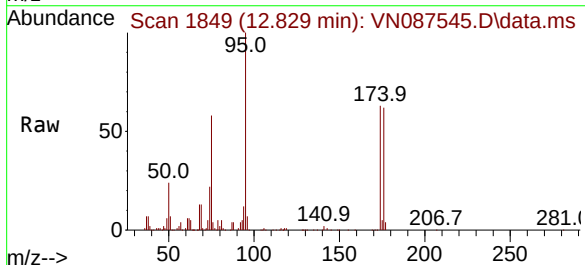
Instrument :
MSVOA_N
ClientSampleId :

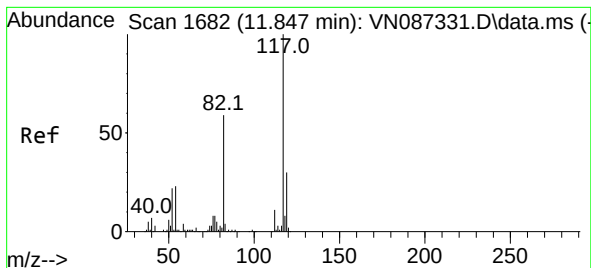
Tgt Ion: 43 Resp: 22056
Ion Ratio Lower Upper
43 100
58 0.0 26.7 80.0#



#62
4-Bromofluorobenzene
Concen: 49.059 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.000 min
Lab File: VN087545.D
Acq: 13 Aug 2025 18:56

Tgt Ion: 95 Resp: 240812
Ion Ratio Lower Upper
95 100
174 66.1 0.0 149.4
176 63.0 0.0 141.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.847 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN087545.D

Acq: 13 Aug 2025 18:56

Instrument :

MSVOA_N

ClientSampleId :

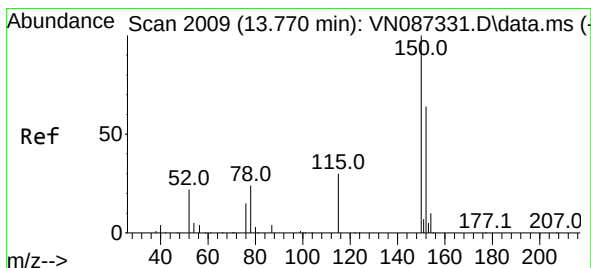
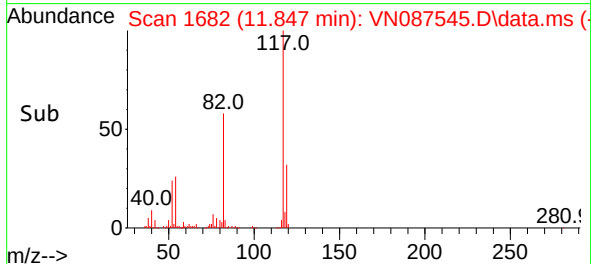
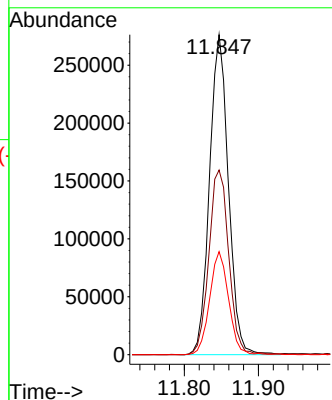
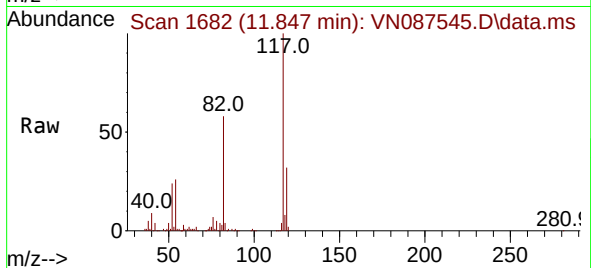
Tgt Ion:117 Resp: 488726

Ion Ratio Lower Upper

117 100

82 57.7 47.4 71.2

119 32.2 23.8 35.8



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.770 min Scan# 2009

Delta R.T. 0.000 min

Lab File: VN087545.D

Acq: 13 Aug 2025 18:56

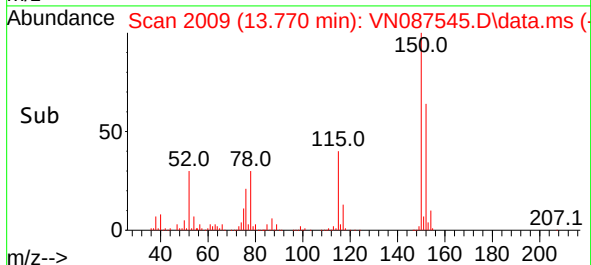
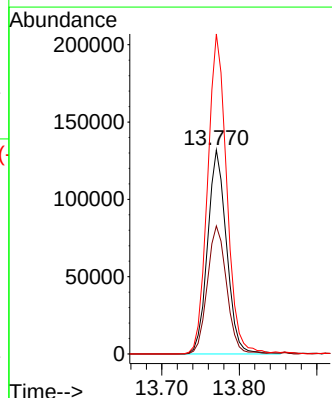
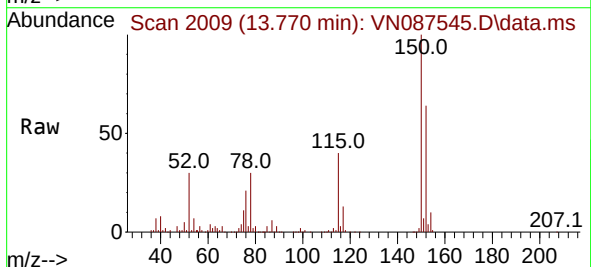
Tgt Ion:152 Resp: 223776

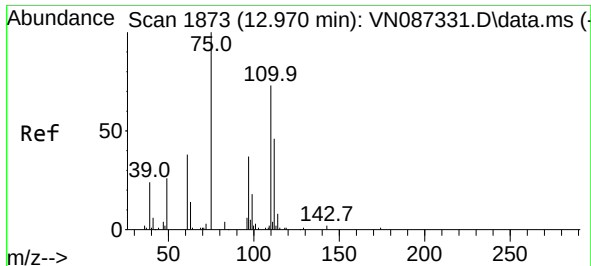
Ion Ratio Lower Upper

152 100

115 63.8 31.1 93.5

150 158.4 0.0 349.0

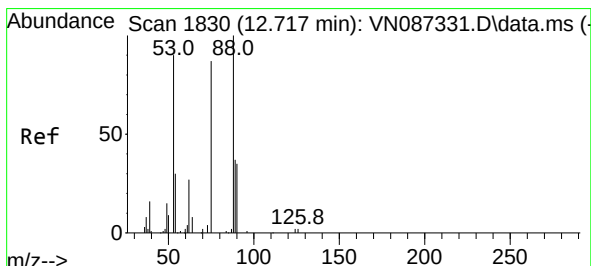
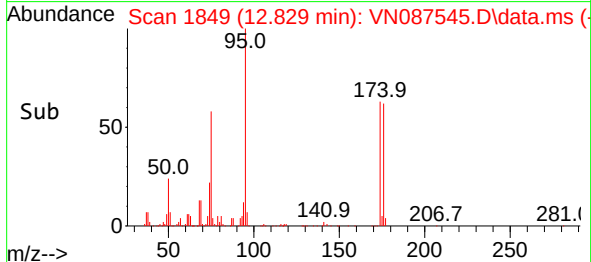
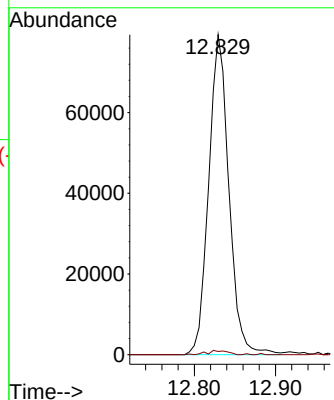
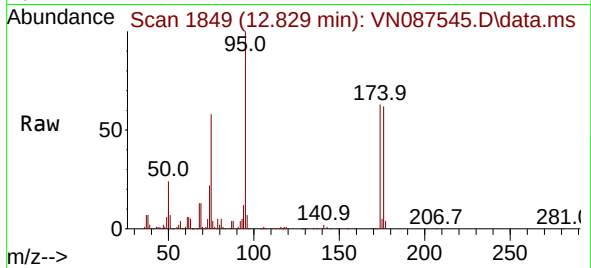




#76
1,2,3-Trichloropropane
Concen: 27.309 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.141 min
Lab File: VN087545.D
Acq: 13 Aug 2025 18:56

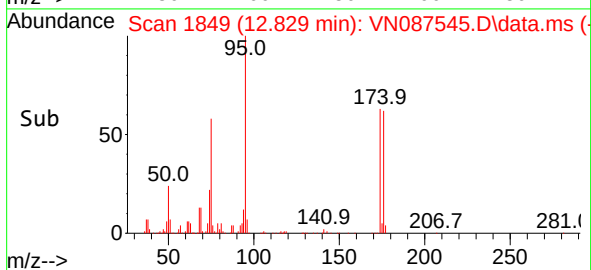
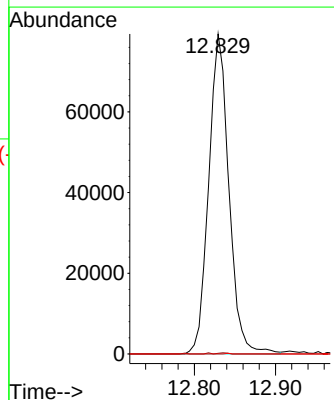
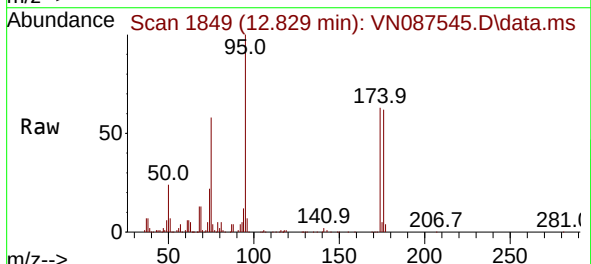
Instrument :
MSVOA_N
ClientSampleId :

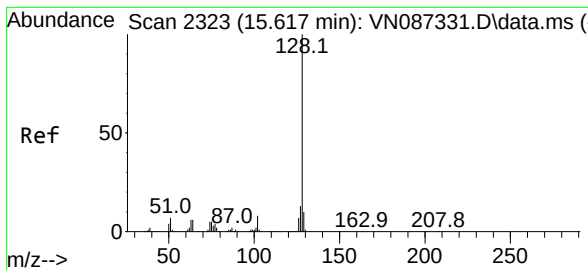
Tgt Ion: 75 Resp: 137035
Ion Ratio Lower Upper
75 100
77 1.3 94.5 283.6#



#81
trans-1,4-Dichloro-2-butene
Concen: 74.721 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN087545.D
Acq: 13 Aug 2025 18:56

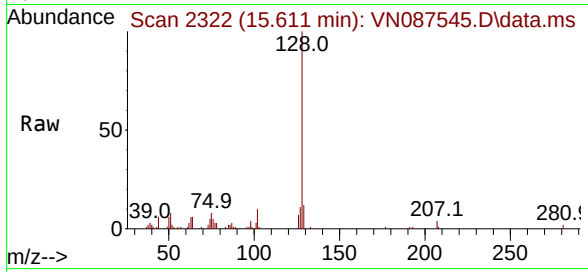
Tgt Ion: 75 Resp: 137035
Ion Ratio Lower Upper
75 100
53 0.2 83.5 125.3#
89 0.0 38.4 57.6#





#95
 Naphthalene
 Concen: 3.980 ug/l
 RT: 15.611 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: VN087545.D
 Acq: 13 Aug 2025 18:56

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:	128	Resp:	56248
Ion	Ratio	Lower	Upper
128	100		
127	14.0	10.5	15.7
129	11.4	8.4	12.6

