

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121025\
 Data File : VN088504.D
 Acq On : 10 Dec 2025 16:31
 Operator : JC\MD
 Sample : Q3814-14
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 11 02:11:12 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 25 01:34:52 2025
 Response via : Initial Calibration

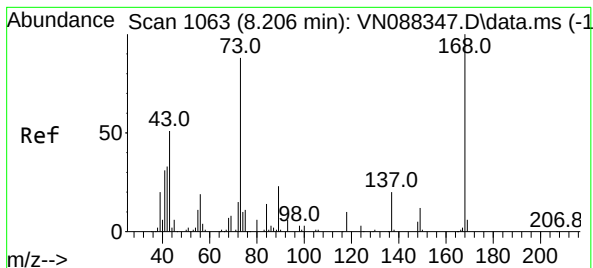
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.206	168	203558	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	469679	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	510731	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	226357	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	227590	59.351	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 118.700%	
35) Dibromofluoromethane	8.147	113	163969	50.377	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 100.760%	
50) Toluene-d8	10.541	98	586159	48.401	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 96.800%	
62) 4-Bromofluorobenzene	12.829	95	215662	51.900	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 103.800%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.489	59	894	1.460	ug/l #	72
14) Allyl chloride	5.265	41	9580	2.081	ug/l #	19
16) Acetone	4.424	43	175716	126.706	ug/l	93
18) Methyl Acetate	5.042	43	6569	1.591	ug/l #	58
20) Methylene Chloride	5.265	84	278083	93.723	ug/l	98
25) 2-Butanone	7.477	43	13337	5.982	ug/l #	89
29) Tetrahydrofuran	7.847	42	795	0.497	ug/l #	67
31) Cyclohexane	8.212	56	6580	1.305	ug/l #	19
36) 1,1-Dichloropropene	8.206	75	21023	4.185	ug/l #	54
37) Ethyl Acetate	7.477	43	13337	2.019	ug/l #	72
38) Carbon Tetrachloride	8.206	117	24028	4.805	ug/l #	17
43) Isopropyl Acetate	8.671	43	26801	2.656	ug/l #	90
45) 1,2-Dichloropropane	9.729	63	1475	0.390	ug/l #	46
48) Methyl methacrylate	9.724	41	116309	25.260	ug/l #	47
51) 4-Methyl-2-Pentanone	10.429	43	7431	1.249	ug/l	90
54) cis-1,3-Dichloropropene	10.335	75	40349	6.796	ug/l #	67
57) 1,3-Dichloropropane	11.188	76	3149	0.530	ug/l #	42
59) 2-Hexanone	11.188	43	43728	11.670	ug/l #	60
76) 1,2,3-Trichloropropane	12.829	75	126710	23.900	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	126710	67.803	ug/l #	1

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

Quant Time: Dec 11 02:11:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

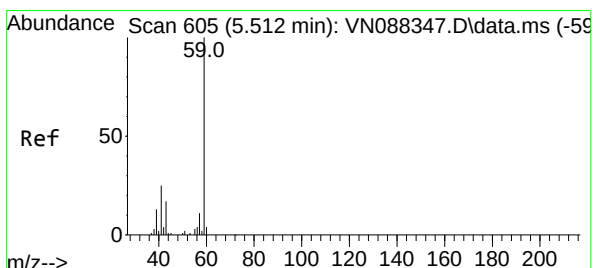
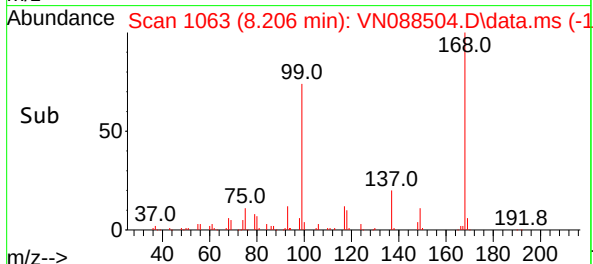
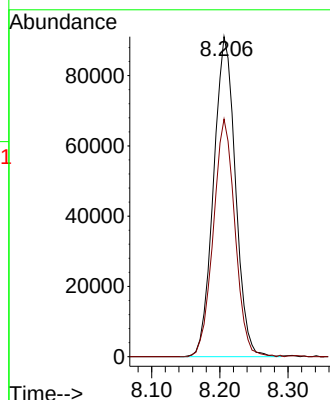
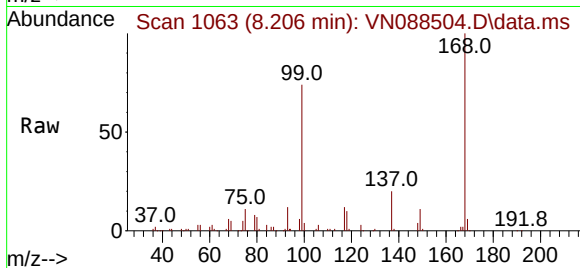




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN088504.D
Acq: 10 Dec 2025 16:31

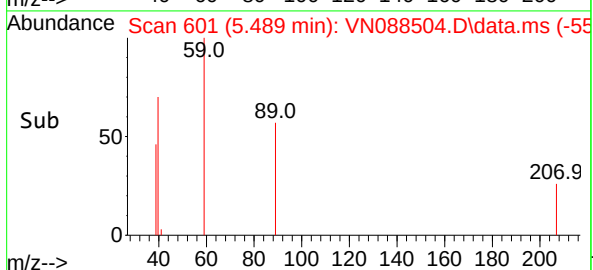
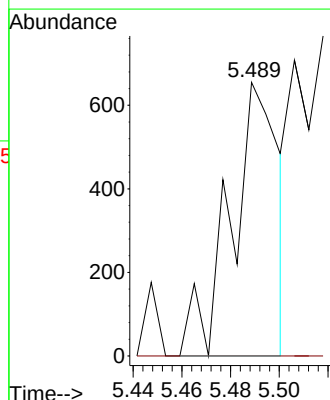
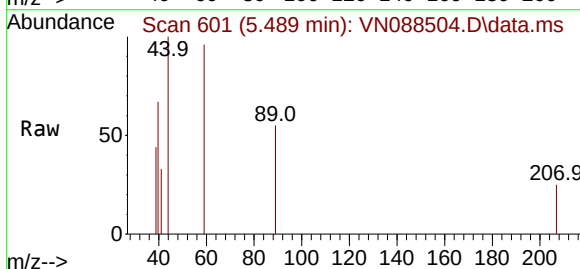
Instrument :
MSVOA_N
ClientSampleId :

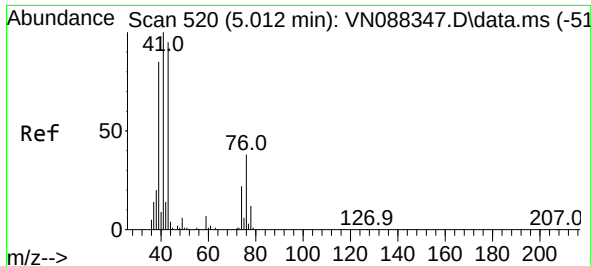
Tgt Ion:168 Resp: 203558
Ion Ratio Lower Upper
168 100
99 74.2 57.1 85.7



#11
Tert butyl alcohol
Concen: 1.460 ug/l
RT: 5.489 min Scan# 601
Delta R.T. -0.023 min
Lab File: VN088504.D
Acq: 10 Dec 2025 16:31

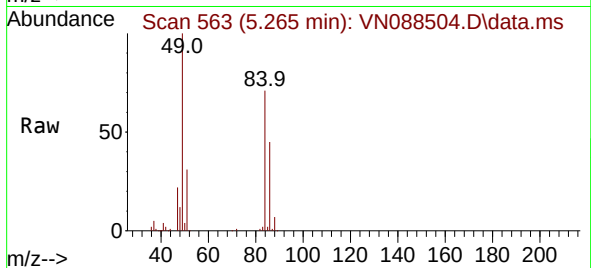
Tgt Ion: 59 Resp: 894
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#



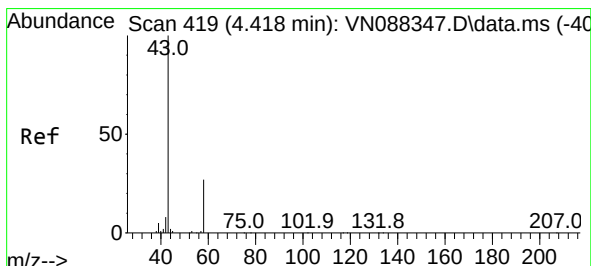
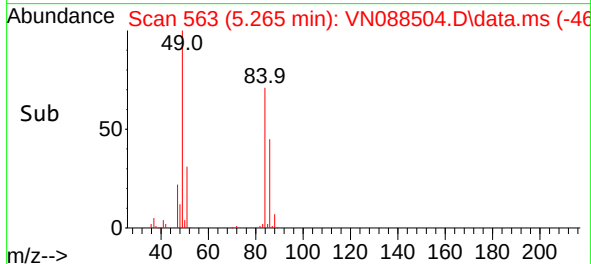
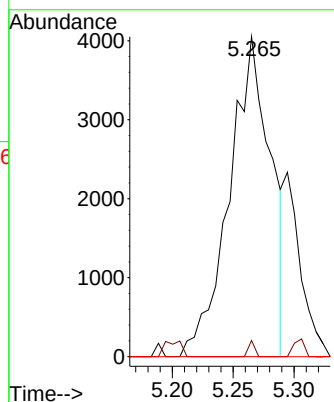


#14
 Allyl chloride
 Concen: 2.081 ug/l
 RT: 5.265 min Scan# 51
 Delta R.T. 0.253 min
 Lab File: VN088504.D
 Acq: 10 Dec 2025 16:31

Instrument :
 MSVOA_N
 ClientSampleId :

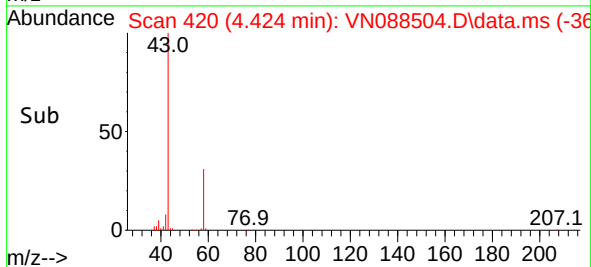
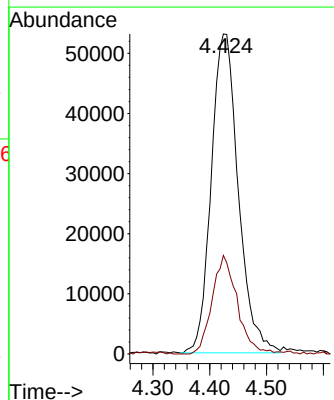
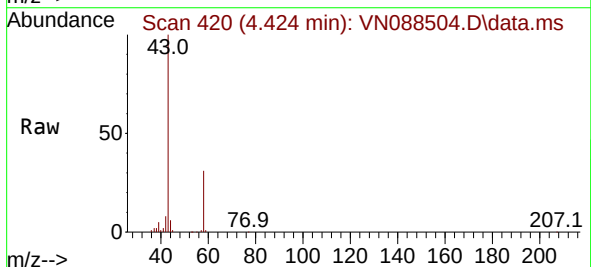


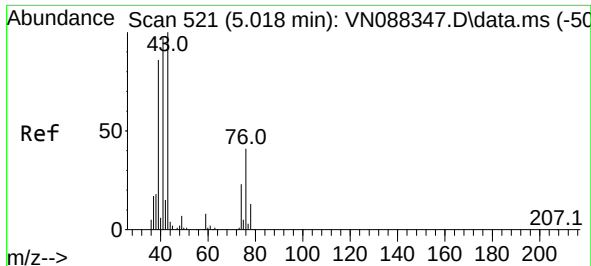
Tgt Ion: 41 Resp: 9580
 Ion Ratio Lower Upper
 41 100
 39 0.8 64.7 97.1#
 76 0.0 29.1 43.7#



#16
 Acetone
 Concen: 126.706 ug/l
 RT: 4.424 min Scan# 420
 Delta R.T. 0.006 min
 Lab File: VN088504.D
 Acq: 10 Dec 2025 16:31

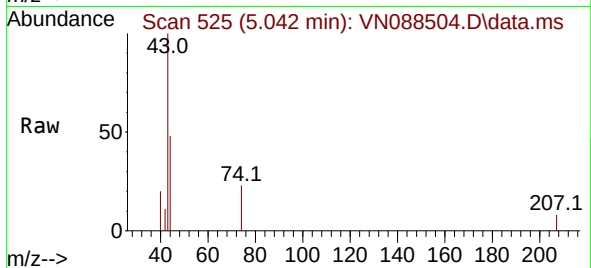
Tgt Ion: 43 Resp: 175716
 Ion Ratio Lower Upper
 43 100
 58 30.9 21.7 32.5



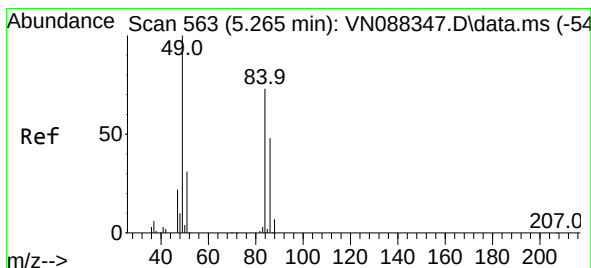
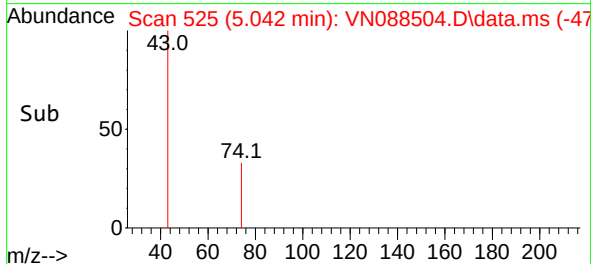
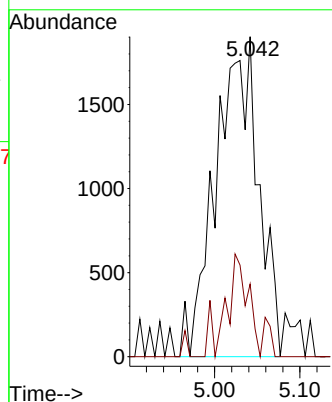


#18
Methyl Acetate
Concen: 1.591 ug/l
RT: 5.042 min Scan# 51
Delta R.T. 0.024 min
Lab File: VN088504.D
Acq: 10 Dec 2025 16:31

Instrument :
MSVOA_N
ClientSampleId :

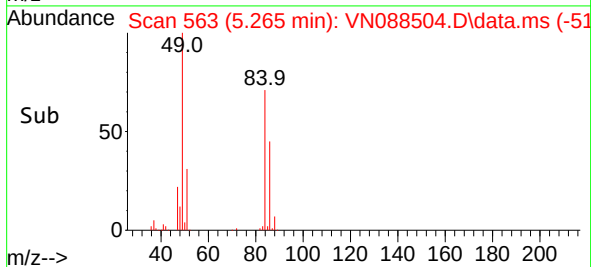
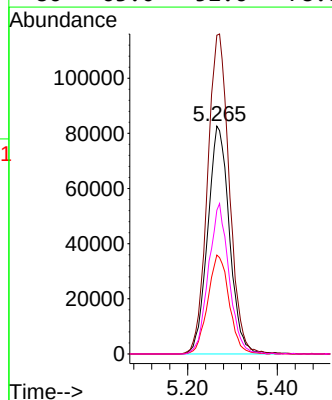
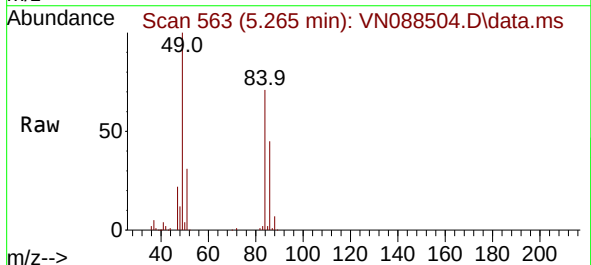


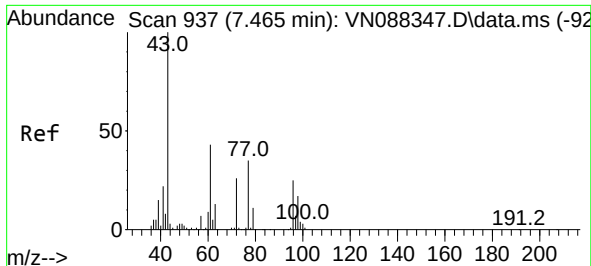
Tgt Ion: 43 Resp: 6569
Ion Ratio Lower Upper
43 100
74 2.2 17.9 26.9#



#20
Methylene Chloride
Concen: 93.723 ug/l
RT: 5.265 min Scan# 563
Delta R.T. 0.000 min
Lab File: VN088504.D
Acq: 10 Dec 2025 16:31

Tgt Ion: 84 Resp: 278083
Ion Ratio Lower Upper
84 100
49 139.9 110.2 165.2
51 43.4 34.1 51.1
86 63.0 52.6 78.8

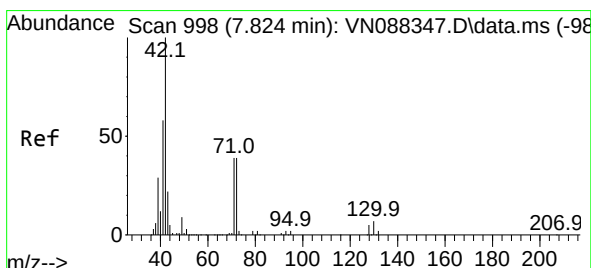
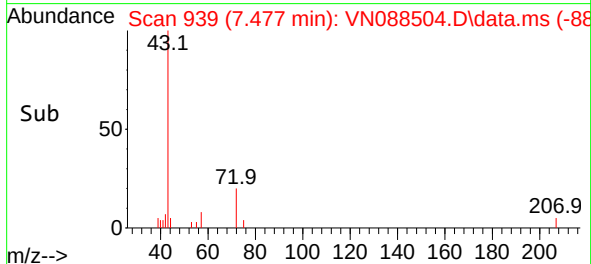
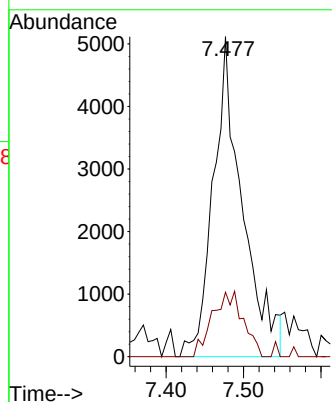
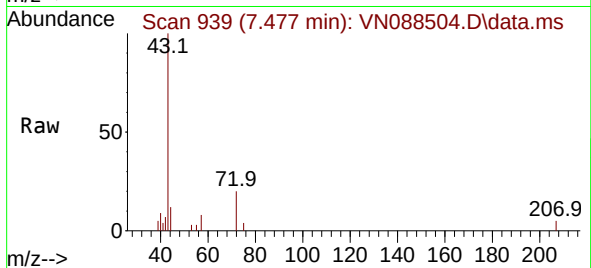




#25
2-Butanone
Concen: 5.982 ug/l
RT: 7.477 min Scan# 91
Delta R.T. 0.012 min
Lab File: VN088504.D
Acq: 10 Dec 2025 16:31

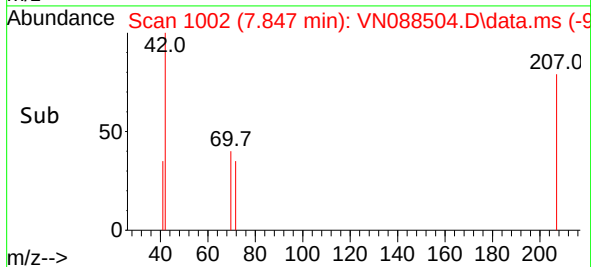
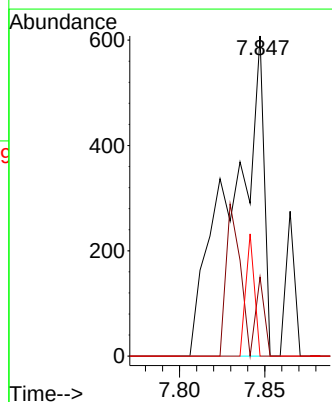
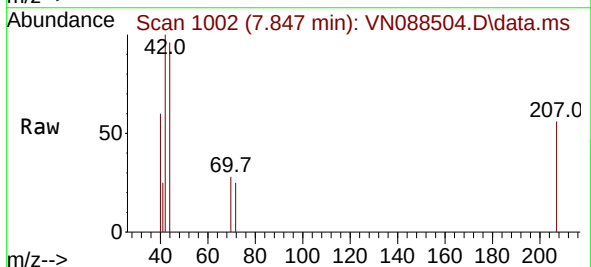
Instrument :
MSVOA_N
ClientSampleId :

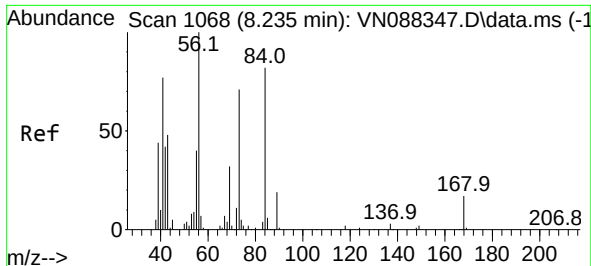
Tgt Ion: 43 Resp: 13337
Ion Ratio Lower Upper
43 100
72 20.2 20.5 30.7#



#29
Tetrahydrofuran
Concen: 0.497 ug/l
RT: 7.847 min Scan# 1002
Delta R.T. 0.024 min
Lab File: VN088504.D
Acq: 10 Dec 2025 16:31

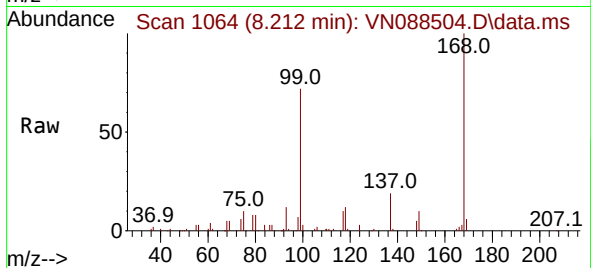
Tgt Ion: 42 Resp: 795
Ion Ratio Lower Upper
42 100
72 27.5 32.2 48.4#
71 10.3 31.1 46.7#



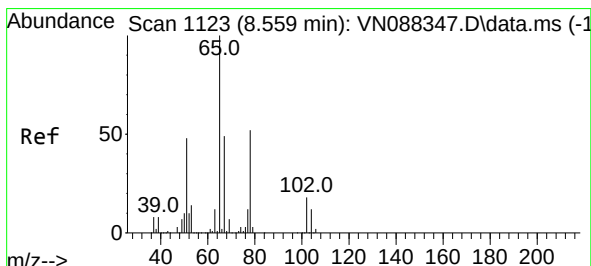
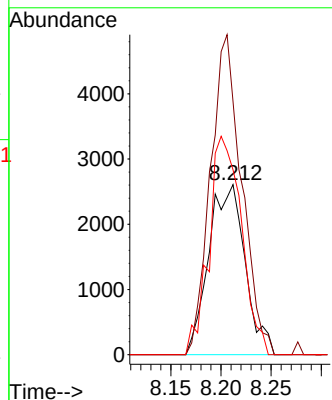
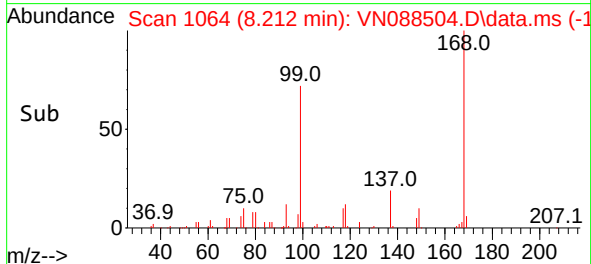


#31
Cyclohexane
Concen: 1.305 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. -0.023 min
Lab File: VN088504.D
Acq: 10 Dec 2025 16:31

Instrument :
MSVOA_N
ClientSampleId :

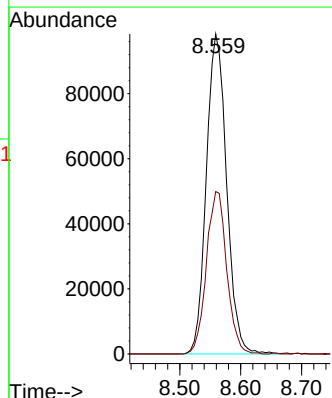
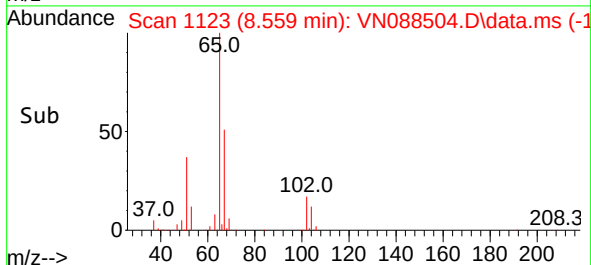
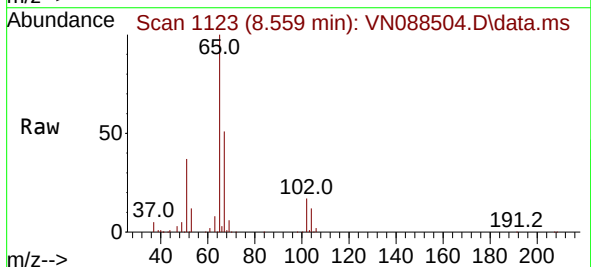


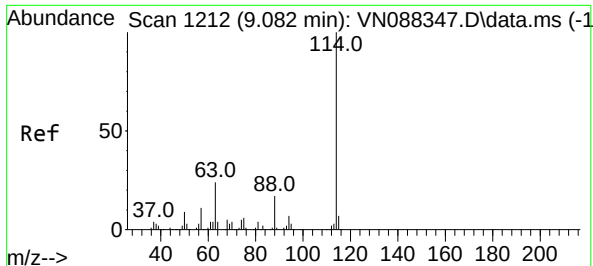
Tgt Ion: 56 Resp: 6580
Ion Ratio Lower Upper
56 100
69 149.0 25.3 37.9#
84 108.7 65.4 98.2#



#33
1,2-Dichloroethane-d4
Concen: 59.351 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. 0.000 min
Lab File: VN088504.D
Acq: 10 Dec 2025 16:31

Tgt Ion: 65 Resp: 227590
Ion Ratio Lower Upper
65 100
67 50.9 0.0 100.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN088504.D

Acq: 10 Dec 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :

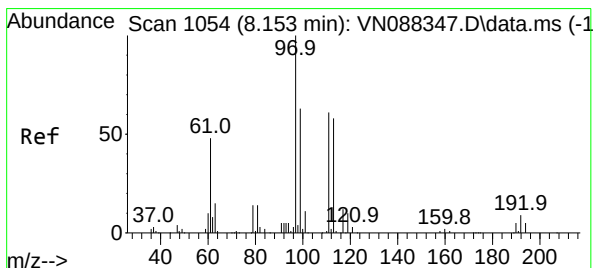
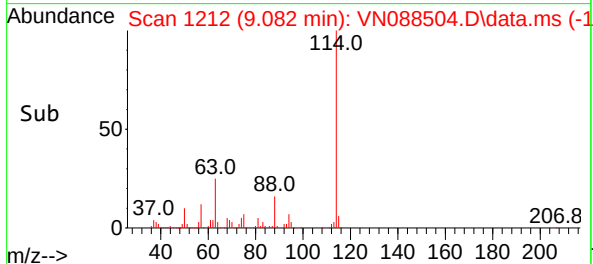
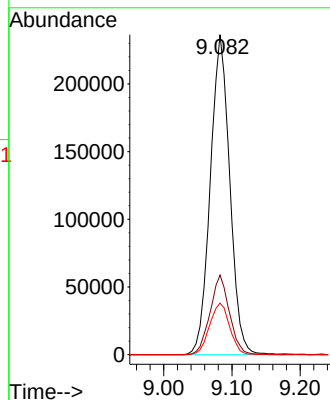
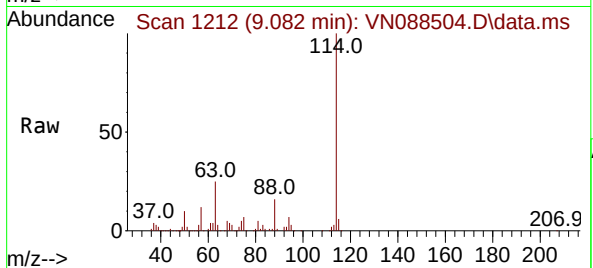
Tgt Ion:114 Resp: 469679

Ion Ratio Lower Upper

114 100

63 24.8 0.0 49.0

88 16.1 0.0 34.0



#35

Dibromofluoromethane

Concen: 50.377 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN088504.D

Acq: 10 Dec 2025 16:31

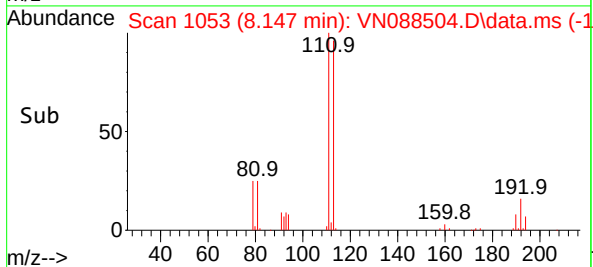
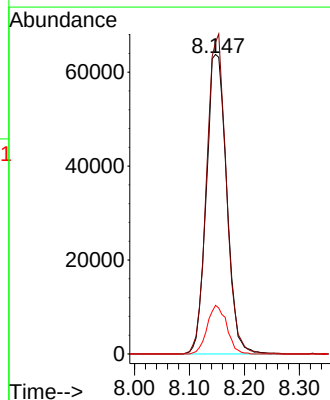
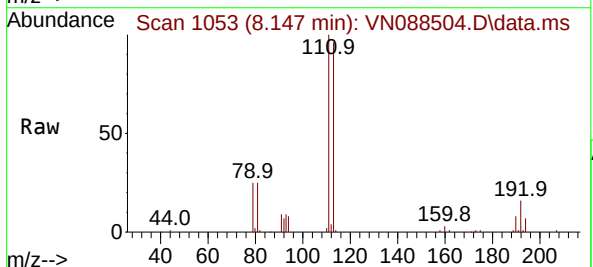
Tgt Ion:113 Resp: 163969

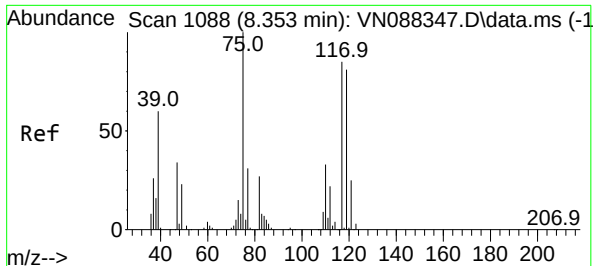
Ion Ratio Lower Upper

113 100

111 103.2 82.5 123.7

192 15.6 12.8 19.2





#36

1,1-Dichloropropene

Concen: 4.185 ug/l

RT: 8.206 min Scan# 1

Delta R.T. -0.147 min

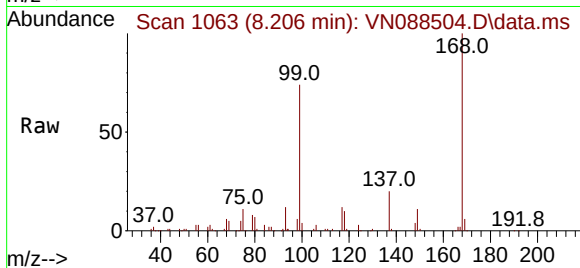
Lab File: VN088504.D

Acq: 10 Dec 2025 16:31

Instrument :

MSVOA_N

ClientSampleId :



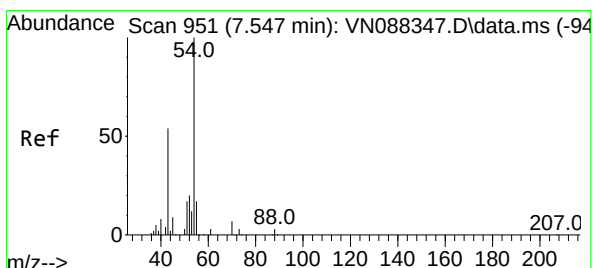
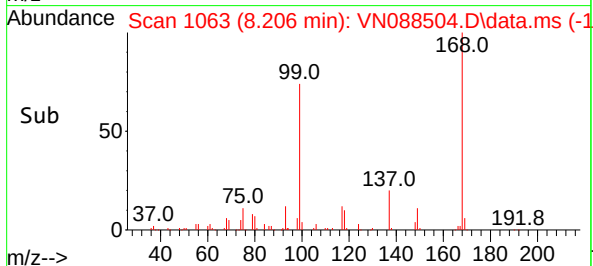
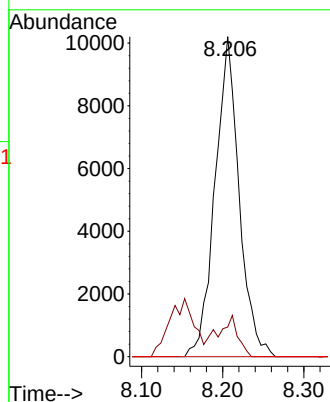
Tgt Ion: 75 Resp: 21023

Ion Ratio Lower Upper

75 100

110 11.0 15.8 47.4#

77 0.0 24.2 36.2#



#37

Ethyl Acetate

Concen: 2.019 ug/l

RT: 7.477 min Scan# 939

Delta R.T. -0.070 min

Lab File: VN088504.D

Acq: 10 Dec 2025 16:31

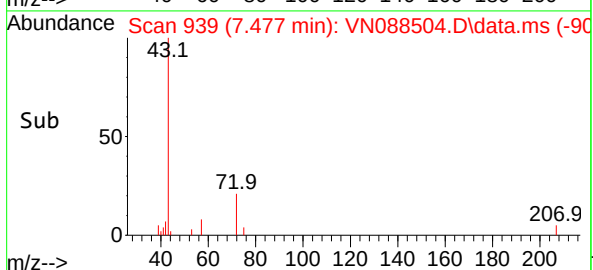
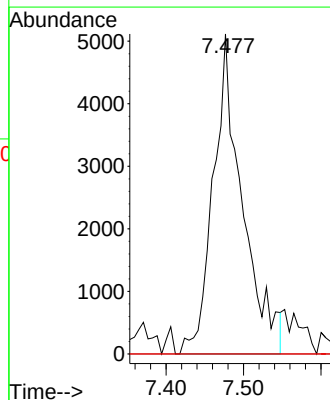
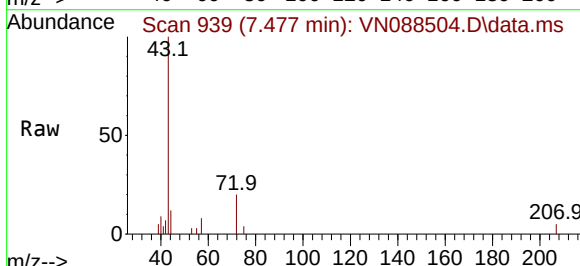
Tgt Ion: 43 Resp: 13337

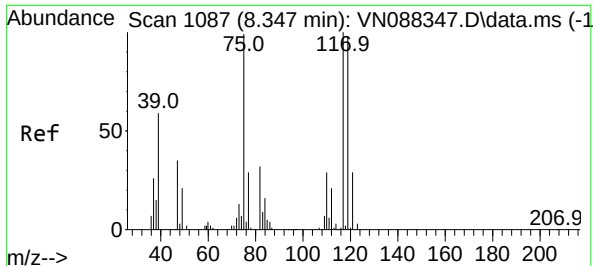
Ion Ratio Lower Upper

43 100

61 0.0 9.5 14.3#

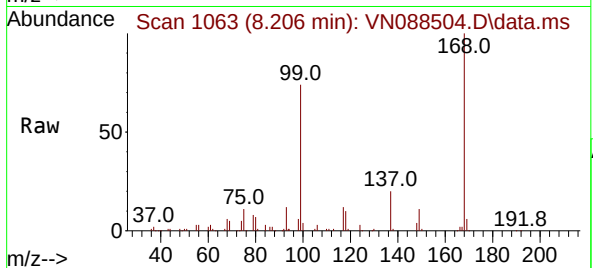
70 0.0 7.1 10.7#



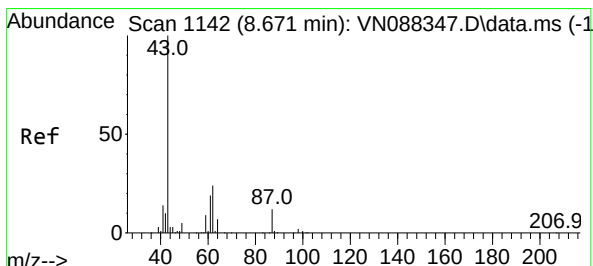
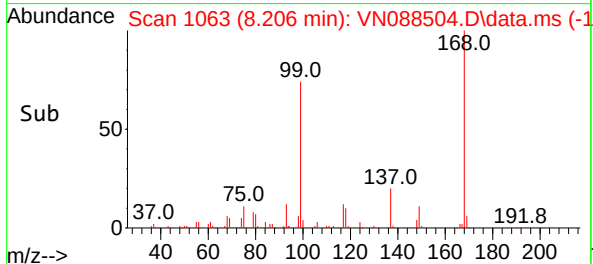
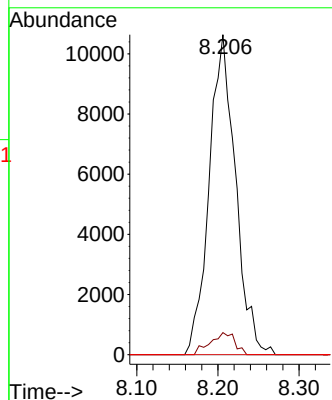


#38
Carbon Tetrachloride
Concen: 4.805 ug/l
RT: 8.206 min Scan# 1106
Delta R.T. -0.141 min
Lab File: VN088504.D
Acq: 10 Dec 2025 16:31

Instrument :
MSVOA_N
ClientSampleId :

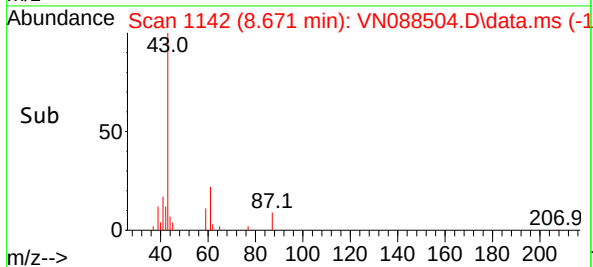
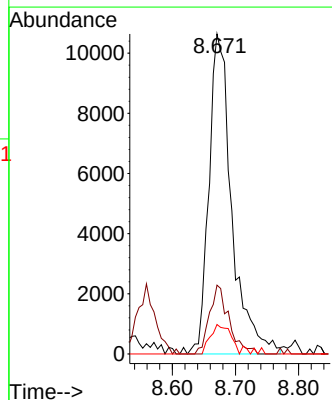
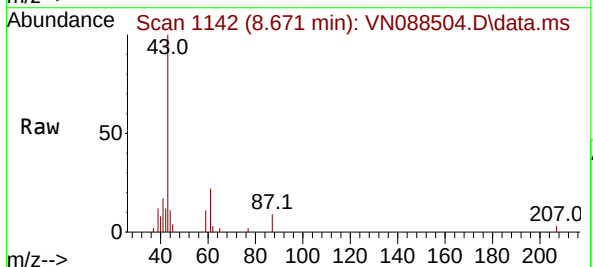


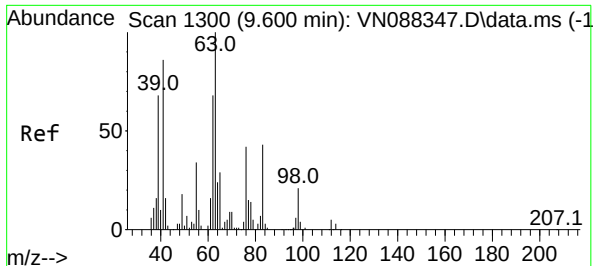
Tgt Ion:117 Resp: 24028
Ion Ratio Lower Upper
117 100
119 6.9 78.2 117.4#
121 0.0 23.4 35.2#



#43
Isopropyl Acetate
Concen: 2.656 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VN088504.D
Acq: 10 Dec 2025 16:31

Tgt Ion: 43 Resp: 26801
Ion Ratio Lower Upper
43 100
61 18.4 18.7 28.1#
87 8.0 9.1 13.7#

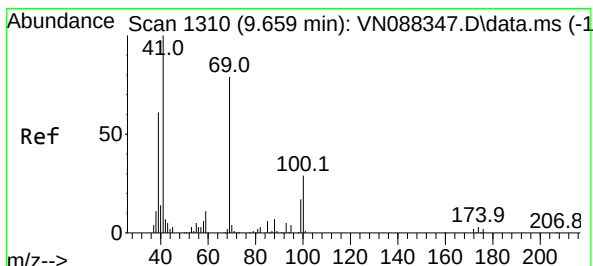
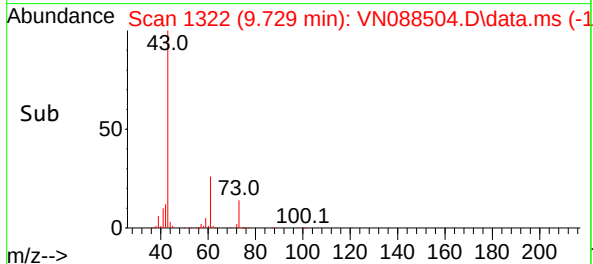
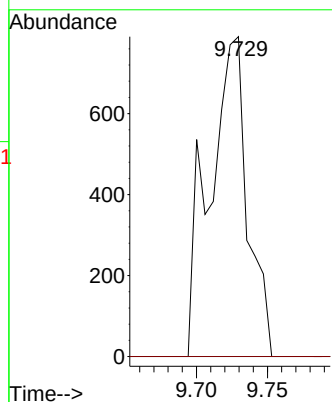
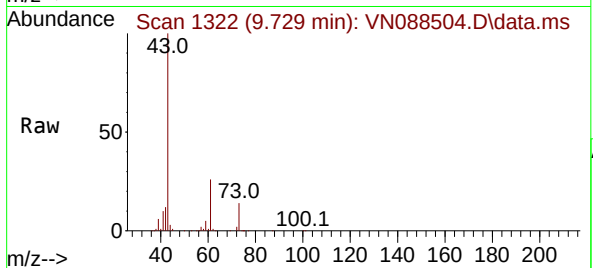




#45
1,2-Dichloropropane
Concen: 0.390 ug/l
RT: 9.729 min Scan# 11
Delta R.T. 0.130 min
Lab File: VN088504.D
Acq: 10 Dec 2025 16:31

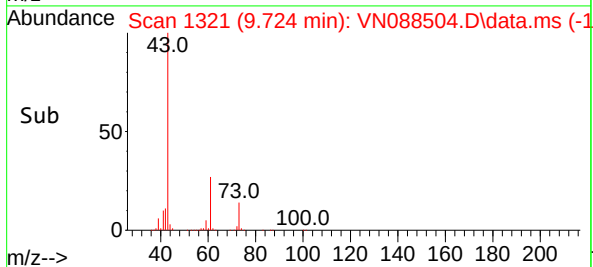
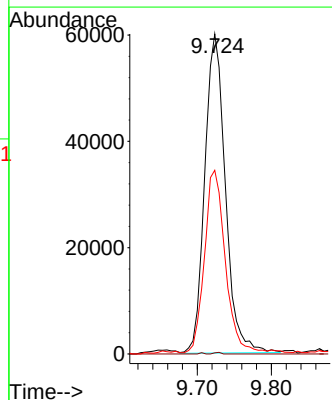
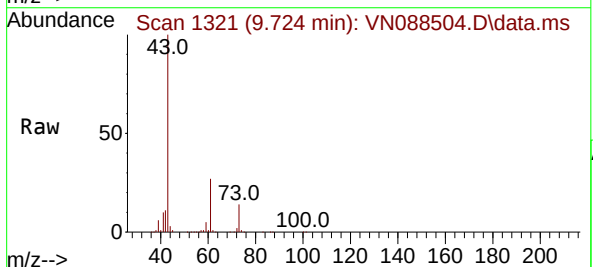
Instrument :
MSVOA_N
ClientSampleId :

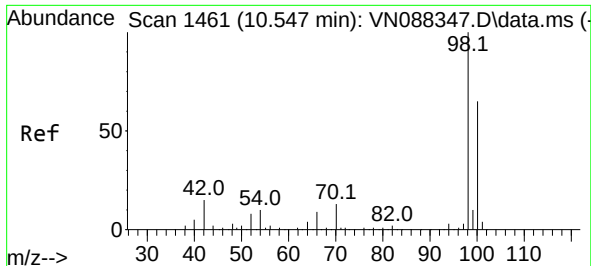
Tgt Ion: 63 Resp: 1475
Ion Ratio Lower Upper
63 100
65 0.0 23.0 34.4#



#48
Methyl methacrylate
Concen: 25.260 ug/l
RT: 9.724 min Scan# 1321
Delta R.T. 0.065 min
Lab File: VN088504.D
Acq: 10 Dec 2025 16:31

Tgt Ion: 41 Resp: 116309
Ion Ratio Lower Upper
41 100
69 0.2 62.4 93.6#
39 57.2 52.6 79.0

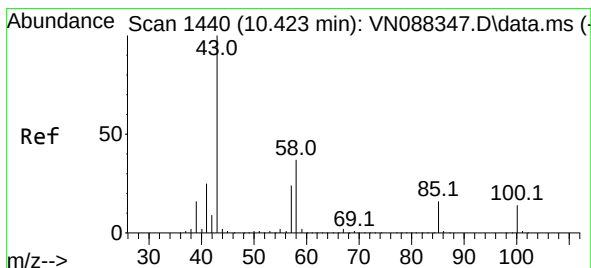
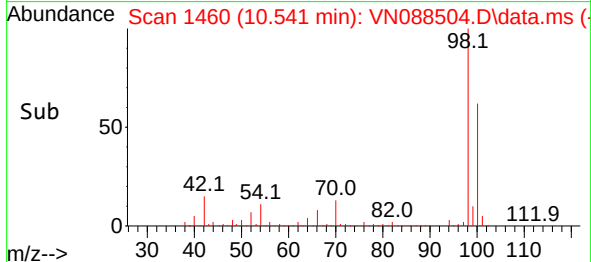
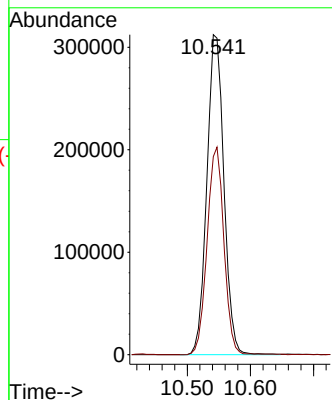
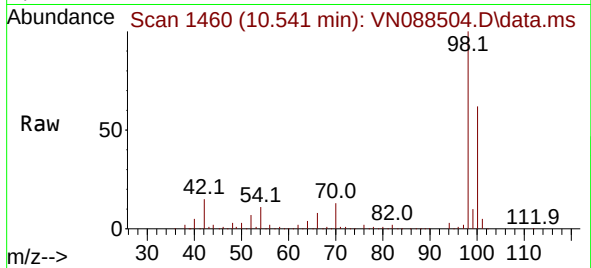




#50
Toluene-d8
Concen: 48.401 ug/l
RT: 10.541 min Scan# 1460
Delta R.T. -0.006 min
Lab File: VN088504.D
Acq: 10 Dec 2025 16:31

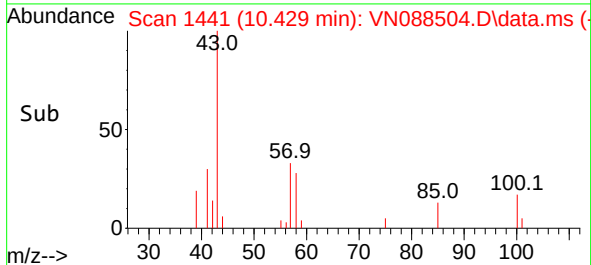
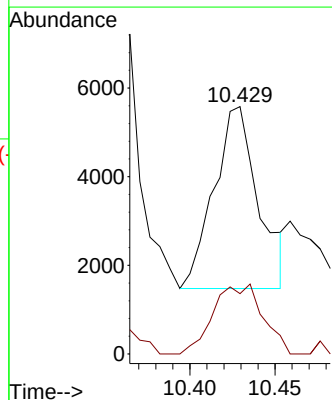
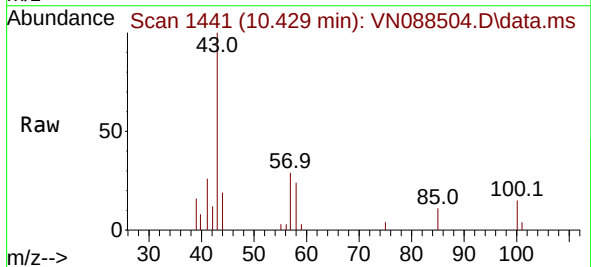
Instrument :
MSVOA_N
ClientSampleId :

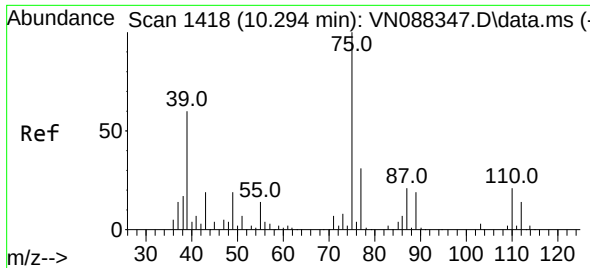
Tgt Ion: 98 Resp: 586159
Ion Ratio Lower Upper
98 100
100 63.7 52.2 78.2



#51
4-Methyl-2-Pentanone
Concen: 1.249 ug/l
RT: 10.429 min Scan# 1441
Delta R.T. 0.006 min
Lab File: VN088504.D
Acq: 10 Dec 2025 16:31

Tgt Ion: 43 Resp: 7431
Ion Ratio Lower Upper
43 100
58 42.6 29.1 43.7

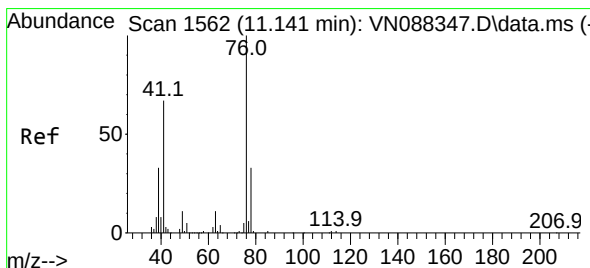
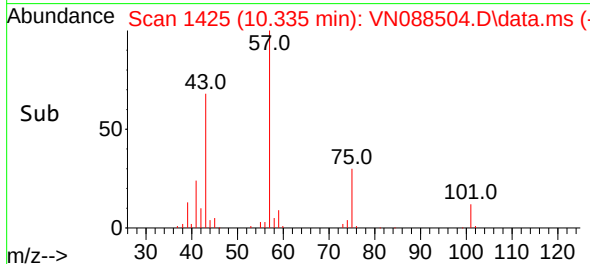
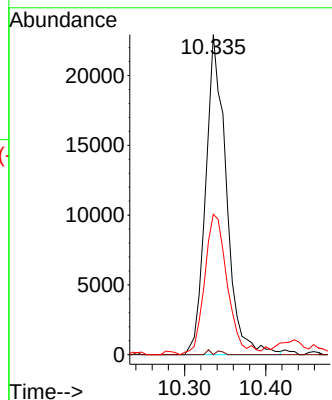
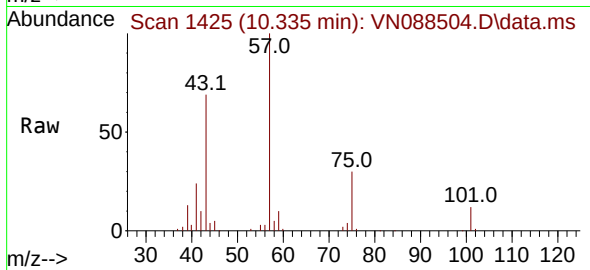




#54
 cis-1,3-Dichloropropene
 Concen: 6.796 ug/l
 RT: 10.335 min Scan# 1418
 Delta R.T. 0.041 min
 Lab File: VN088504.D
 Acq: 10 Dec 2025 16:31

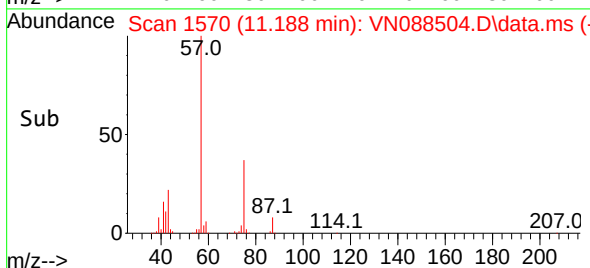
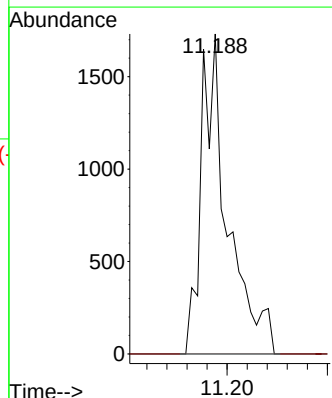
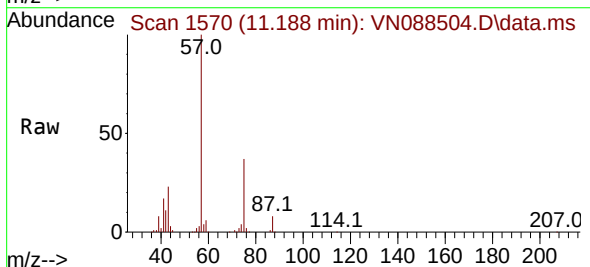
Instrument :
 MSVOA_N
 ClientSampleId :

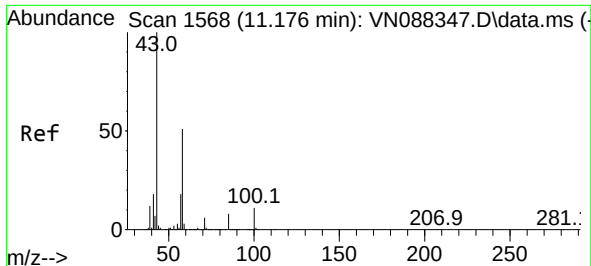
Tgt Ion: 75 Resp: 40349
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.5 36.7#
 39 43.9 48.3 72.5#



#57
 1,3-Dichloropropane
 Concen: 0.530 ug/l
 RT: 11.188 min Scan# 1570
 Delta R.T. 0.047 min
 Lab File: VN088504.D
 Acq: 10 Dec 2025 16:31

Tgt Ion: 76 Resp: 3149
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.2 39.4#

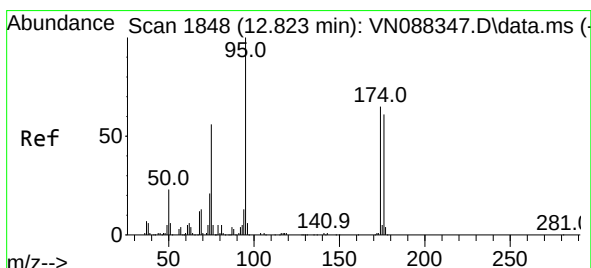
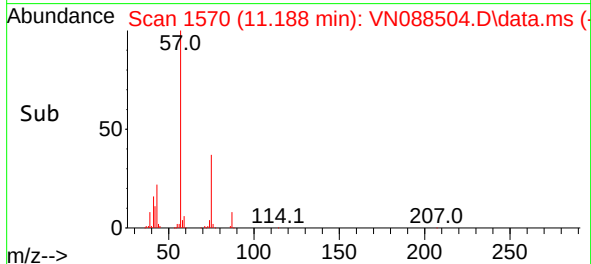
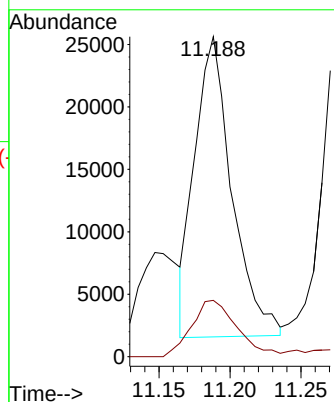
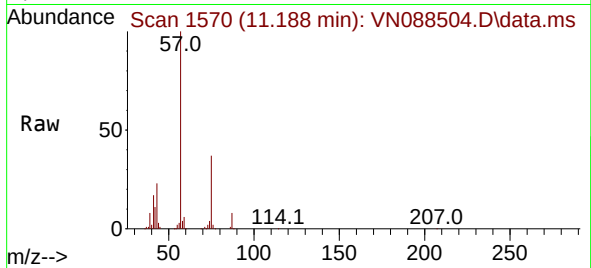




#59
2-Hexanone
Concen: 11.670 ug/l
RT: 11.188 min Scan# 1570
Delta R.T. 0.012 min
Lab File: VN088504.D
Acq: 10 Dec 2025 16:31

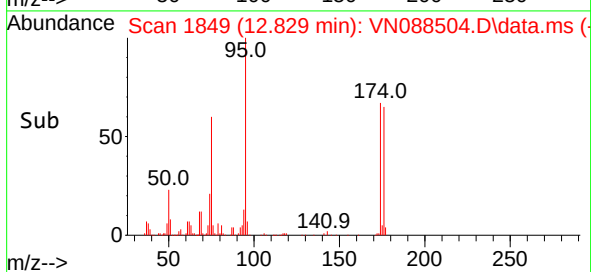
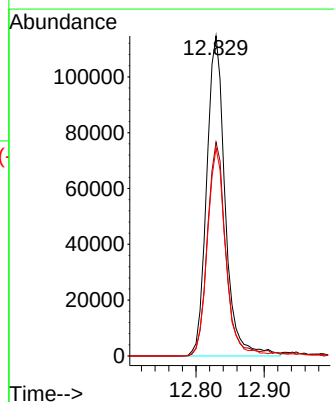
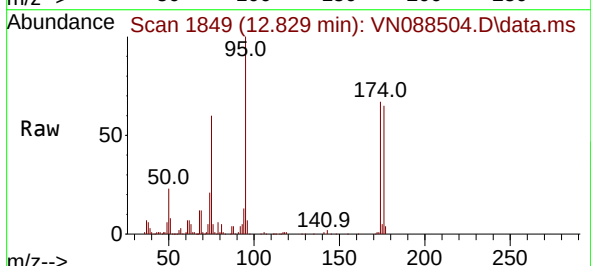
Instrument :
MSVOA_N
ClientSampleId :

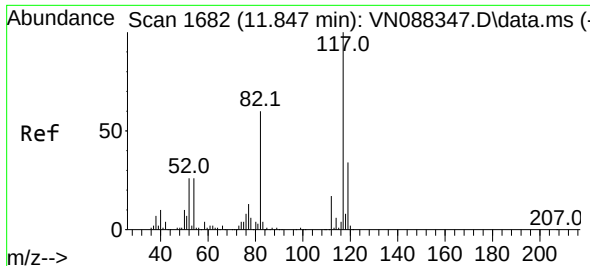
Tgt Ion: 43 Resp: 43728
Ion Ratio Lower Upper
43 100
58 23.0 25.3 75.9#



#62
4-Bromofluorobenzene
Concen: 51.900 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088504.D
Acq: 10 Dec 2025 16:31

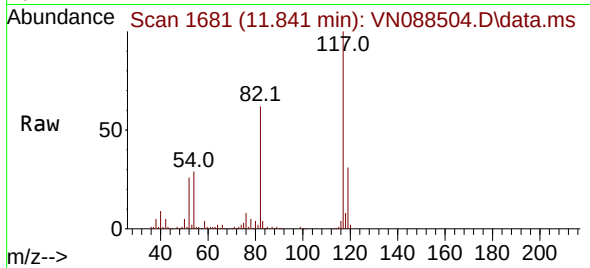
Tgt Ion: 95 Resp: 215662
Ion Ratio Lower Upper
95 100
174 67.4 0.0 139.0
176 64.5 0.0 132.4



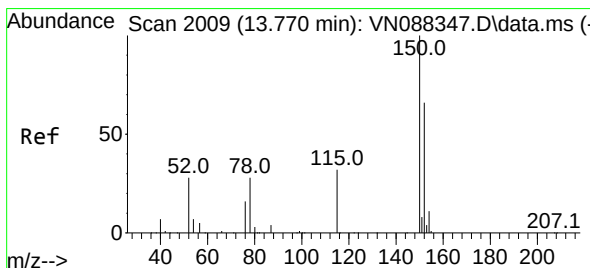
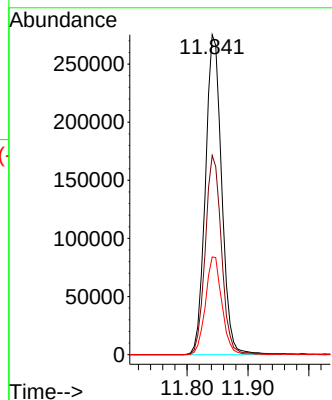
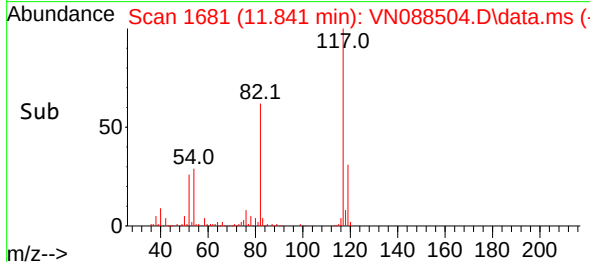


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN088504.D
Acq: 10 Dec 2025 16:31

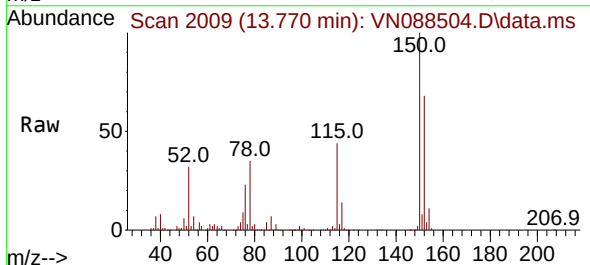
Instrument :
MSVOA_N
ClientSampleId :



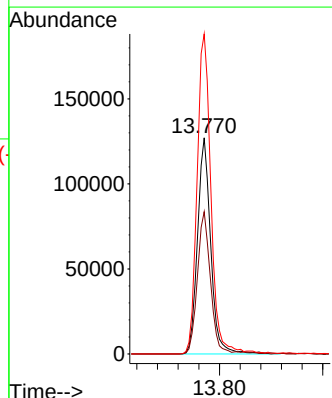
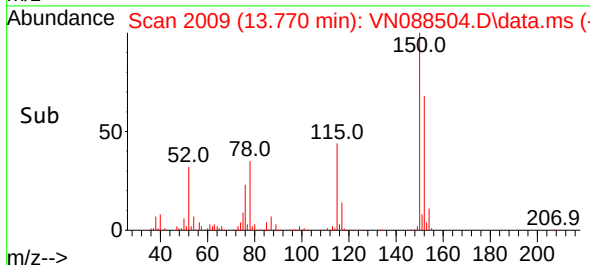
Tgt Ion:117 Resp: 510731
Ion Ratio Lower Upper
117 100
82 62.3 47.8 71.8
119 30.5 26.9 40.3

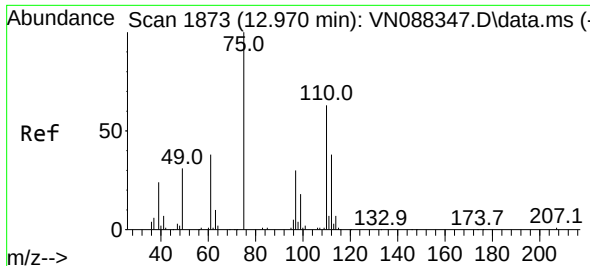


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. 0.000 min
Lab File: VN088504.D
Acq: 10 Dec 2025 16:31



Tgt Ion:152 Resp: 226357
Ion Ratio Lower Upper
152 100
115 64.7 33.0 98.9
150 154.3 0.0 349.0

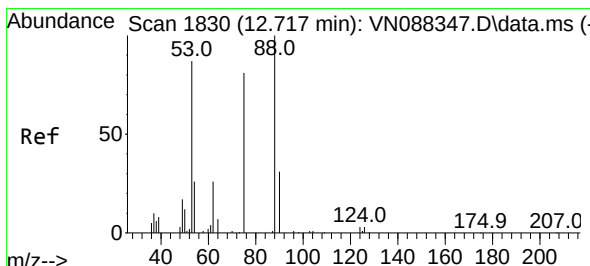
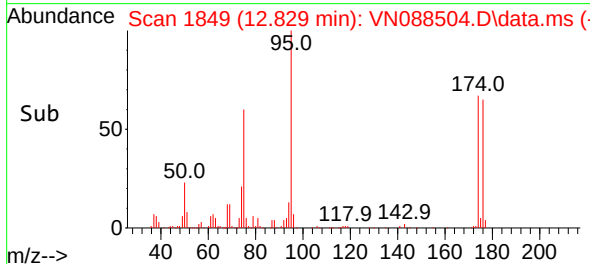
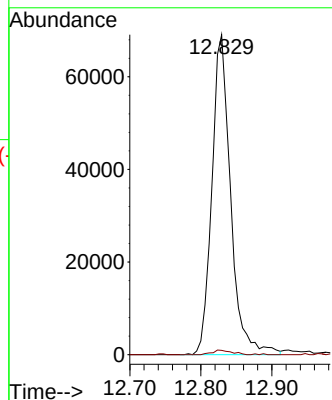
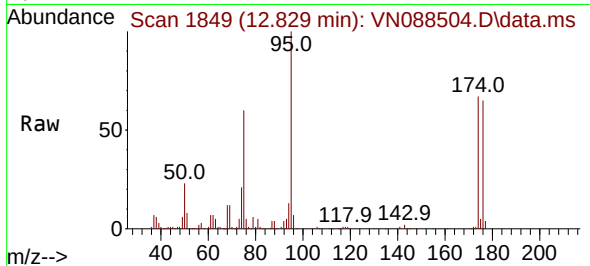




#76
1,2,3-Trichloropropane
Concen: 23.900 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.141 min
Lab File: VN088504.D
Acq: 10 Dec 2025 16:31

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion: 75 Resp: 126710
Ion Ratio Lower Upper
75 100
77 1.5 87.2 261.6#



#81
trans-1,4-Dichloro-2-butene
Concen: 67.803 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN088504.D
Acq: 10 Dec 2025 16:31

Tgt Ion: 75 Resp: 126710
Ion Ratio Lower Upper
75 100
53 0.3 92.2 138.4#
89 0.3 0.0 0.0#

