

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111125\
 Data File : VN088249.D
 Acq On : 11 Nov 2025 12:22
 Operator : JC\MD
 Sample : Q3577-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 WC-1A

Quant Time: Nov 12 01:13:36 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 03 01:16:06 2025
 Response via : Initial Calibration

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

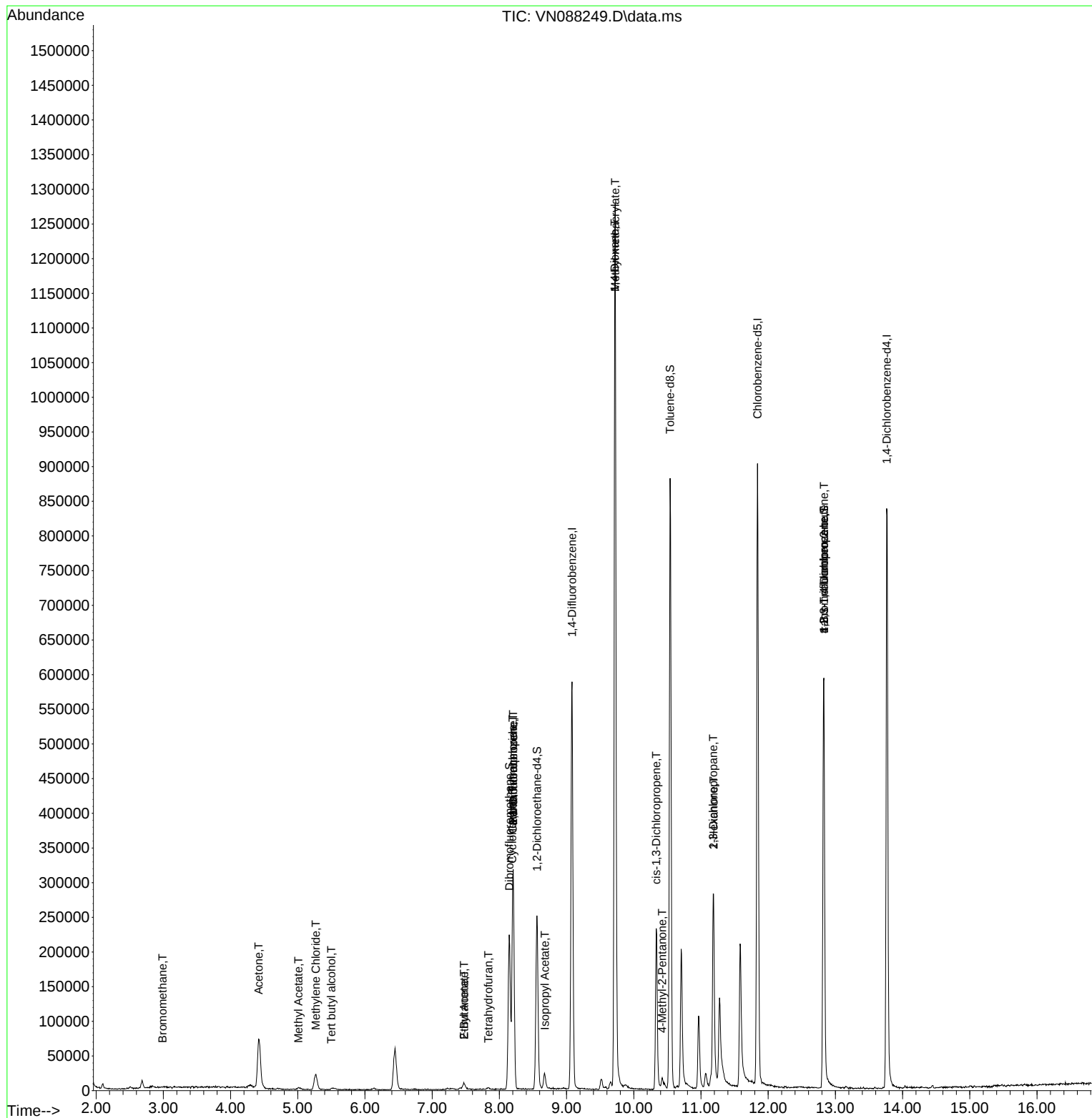
Internal Standards						
1) Pentafluorobenzene	8.206	168	210131	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	475251	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	471078	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.765	152	224837	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	205802	56.639	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	113.280%
35) Dibromofluoromethane	8.147	113	155599	48.735	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	97.460%
50) Toluene-d8	10.541	98	574057	46.663	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	93.320%
62) 4-Bromofluorobenzene	12.829	95	221680	51.023	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	102.040%
Target Compounds						
					Qvalue	
5) Bromomethane	2.989	94	746	0.410	ug/l #	3
11) Tert butyl alcohol	5.500	59	1793	2.864	ug/l #	88
16) Acetone	4.418	43	145500	79.705	ug/l	100
18) Methyl Acetate	5.012	43	4146	1.109	ug/l #	84
20) Methylene Chloride	5.271	84	16999	5.547	ug/l	97
25) 2-Butanone	7.477	43	15764	6.553	ug/l #	89
29) Tetrahydrofuran	7.836	42	1864	1.189	ug/l #	77
31) Cyclohexane	8.194	56	6449	1.268	ug/l #	49
36) 1,1-Dichloropropene	8.206	75	21158	4.539	ug/l #	52
37) Ethyl Acetate	7.477	43	15764	2.620	ug/l #	72
38) Carbon Tetrachloride	8.200	117	24584	5.106	ug/l #	15
43) Isopropyl Acetate	8.677	43	27264	2.949	ug/l	94
48) Methyl methacrylate	9.724	41	130236	30.515	ug/l #	46
49) 1,4-Dioxane	9.718	88	94	1.771	ug/l #	1
51) 4-Methyl-2-Pentanone	10.424	43	7905	1.445	ug/l #	74
54) cis-1,3-Dichloropropene	10.335	75	41845	7.239	ug/l #	67
57) 1,3-Dichloropropane	11.182	76	3392	0.581	ug/l #	42
59) 2-Hexanone	11.188	43	61993	17.088	ug/l #	52
76) 1,2,3-Trichloropropane	12.829	75	129638	25.219	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	129638	70.350	ug/l #	1

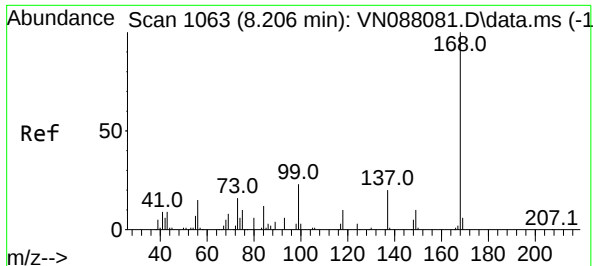
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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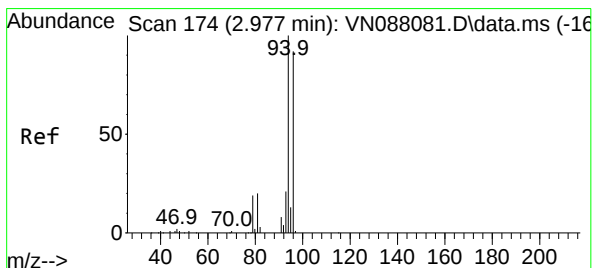
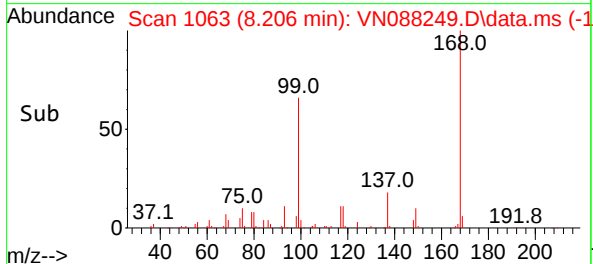
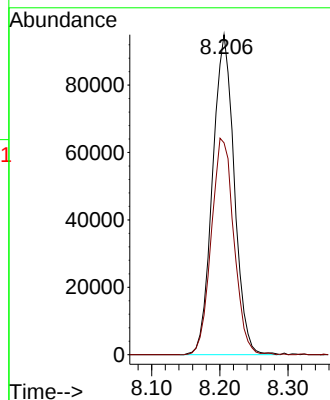
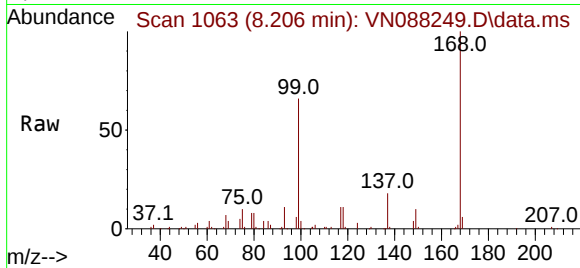




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN088249.D
Acq: 11 Nov 2025 12:22

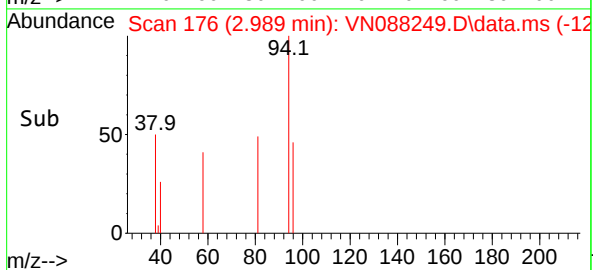
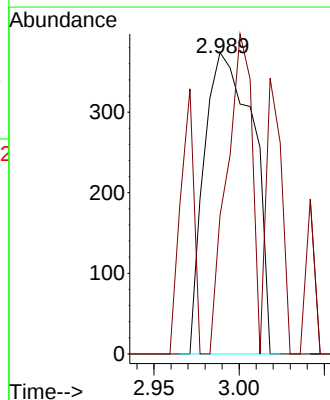
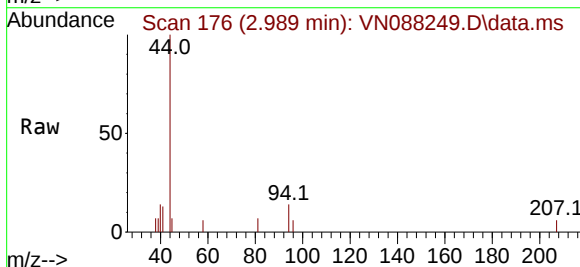
Instrument :
MSVOA_N
ClientSampleId :
WC-1A

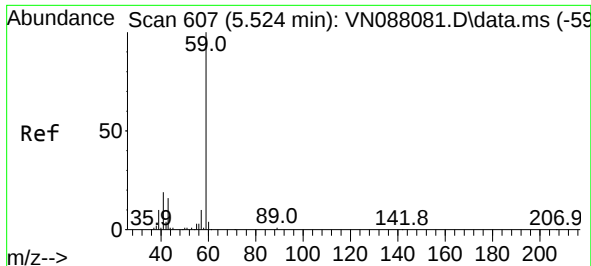
Tgt Ion:168 Resp: 210131
Ion Ratio Lower Upper
168 100
99 66.2 57.2 85.8



#5
Bromomethane
Concen: 0.410 ug/l
RT: 2.989 min Scan# 176
Delta R.T. 0.018 min
Lab File: VN088249.D
Acq: 11 Nov 2025 12:22

Tgt Ion: 94 Resp: 746
Ion Ratio Lower Upper
94 100
96 0.0 75.4 113.2#

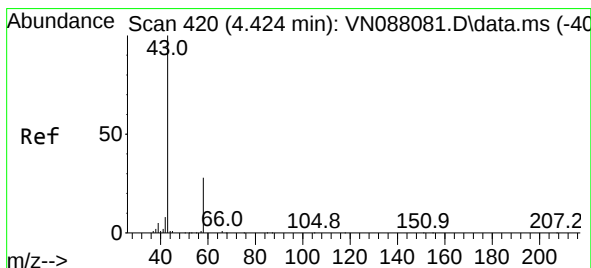
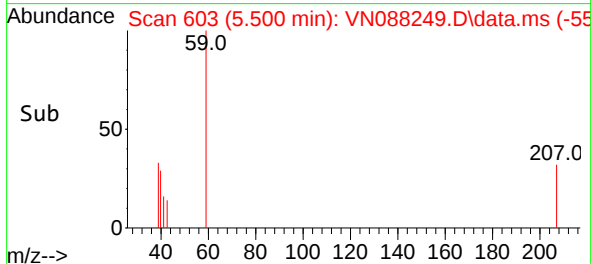
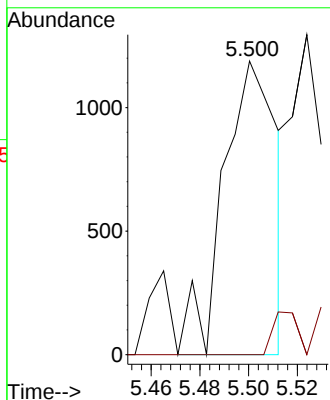
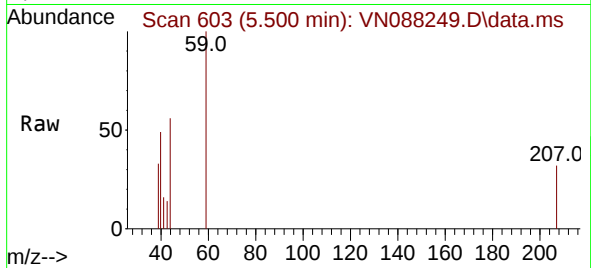




#11
Tert butyl alcohol
Concen: 2.864 ug/l
RT: 5.500 min Scan# 607
Delta R.T. -0.018 min
Lab File: VN088249.D
Acq: 11 Nov 2025 12:22

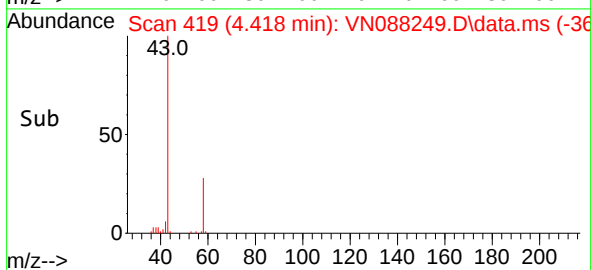
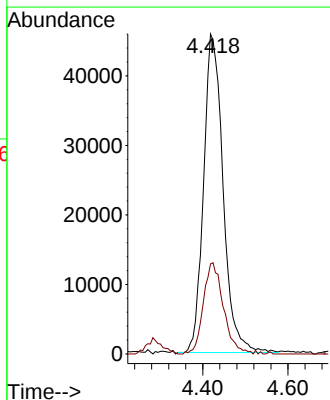
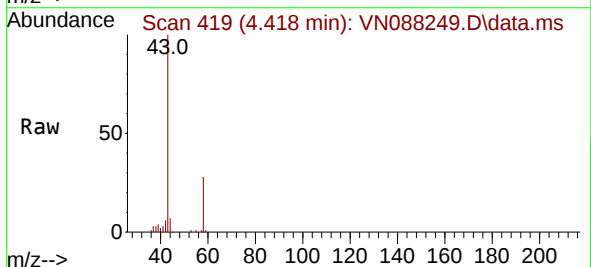
Instrument :
MSVOA_N
ClientSampleId :
WC-1A

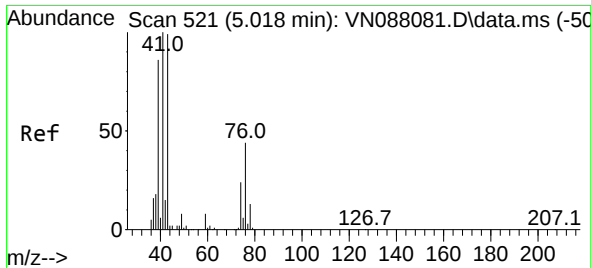
Tgt Ion: 59 Resp: 1793
Ion Ratio Lower Upper
59 100
57 6.7 9.0 13.4#



#16
Acetone
Concen: 79.705 ug/l
RT: 4.418 min Scan# 419
Delta R.T. -0.006 min
Lab File: VN088249.D
Acq: 11 Nov 2025 12:22

Tgt Ion: 43 Resp: 145500
Ion Ratio Lower Upper
43 100
58 28.3 22.6 33.8

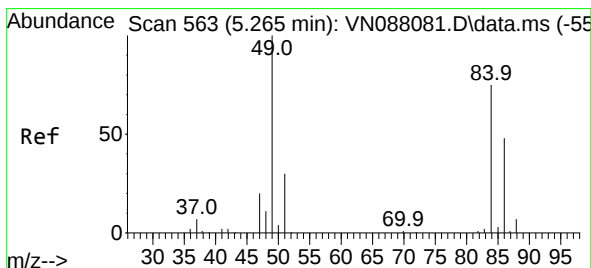
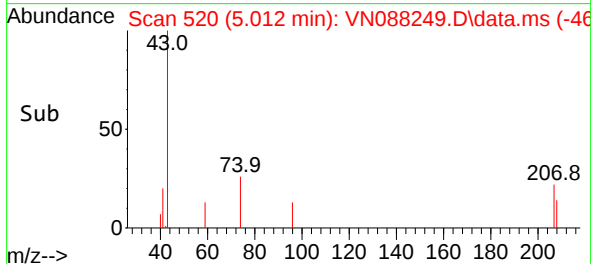
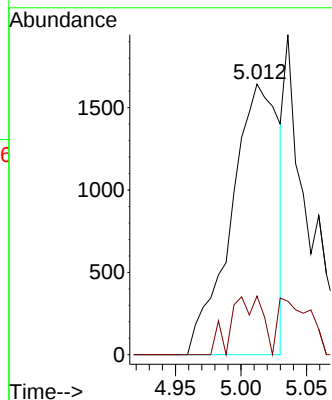
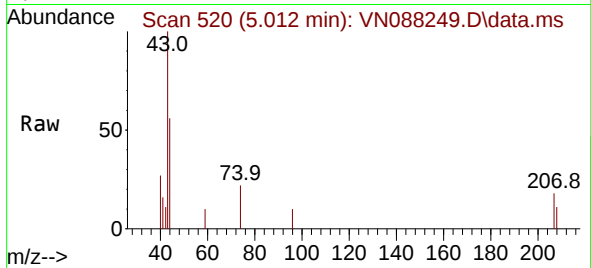




#18
Methyl Acetate
Concen: 1.109 ug/l
RT: 5.012 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN088249.D
Acq: 11 Nov 2025 12:22

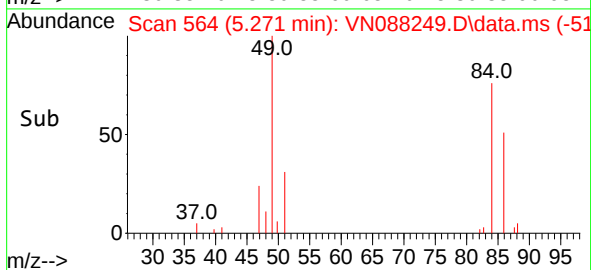
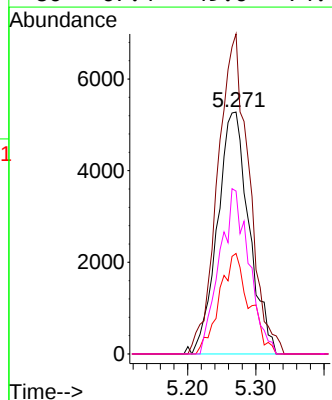
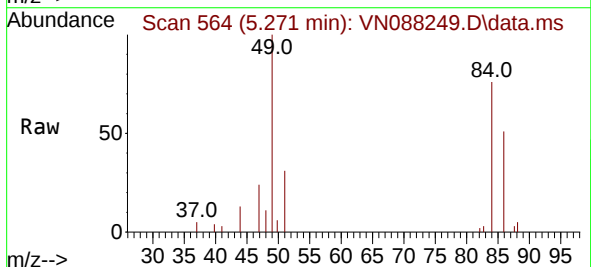
Instrument :
MSVOA_N
ClientSampleId :
WC-1A

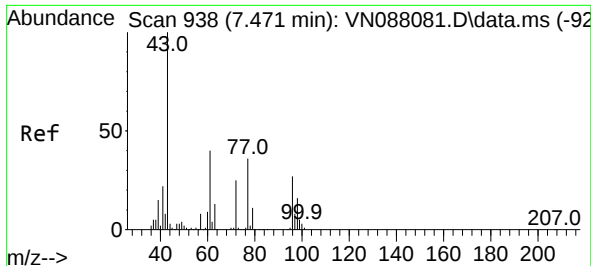
Tgt Ion: 43 Resp: 4146
Ion Ratio Lower Upper
43 100
74 14.3 17.6 26.4#



#20
Methylene Chloride
Concen: 5.547 ug/l
RT: 5.271 min Scan# 564
Delta R.T. 0.006 min
Lab File: VN088249.D
Acq: 11 Nov 2025 12:22

Tgt Ion: 84 Resp: 16999
Ion Ratio Lower Upper
84 100
49 132.3 103.4 155.2
51 41.5 33.8 50.8
86 67.4 49.6 74.4

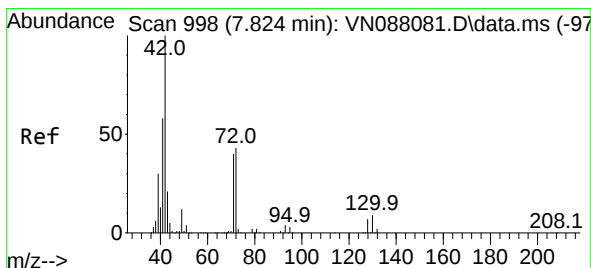
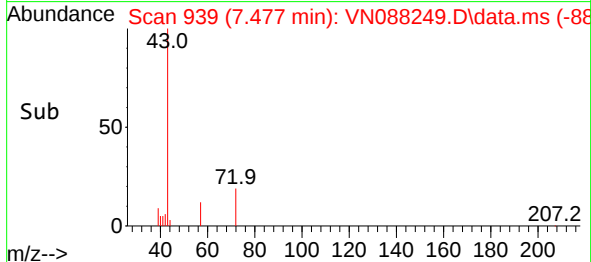
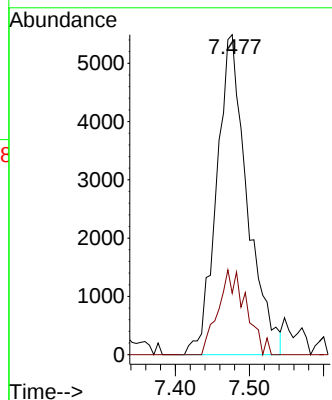
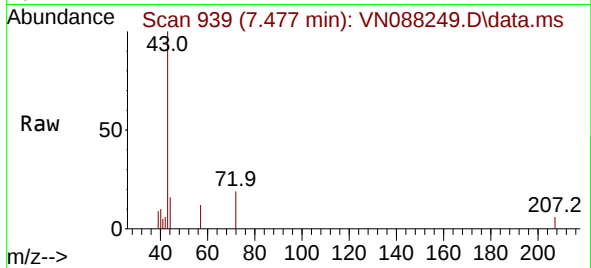




#25
2-Butanone
Concen: 6.553 ug/l
RT: 7.477 min Scan# 91
Delta R.T. 0.012 min
Lab File: VN088249.D
Acq: 11 Nov 2025 12:22

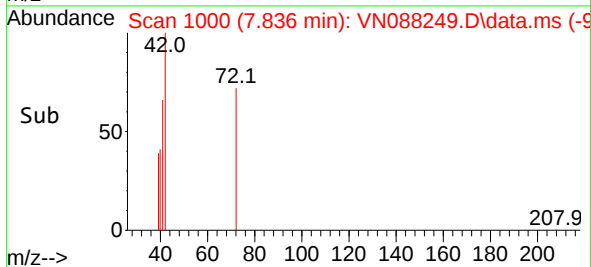
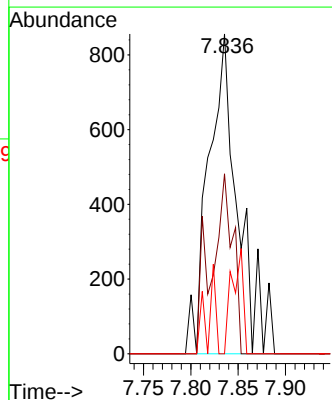
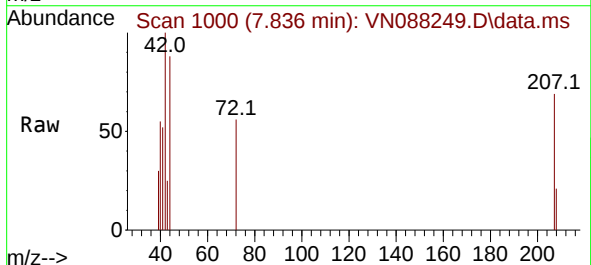
Instrument :
MSVOA_N
ClientSampleId :
WC-1A

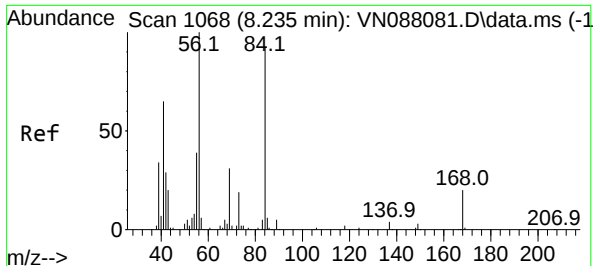
Tgt Ion: 43 Resp: 15764
Ion Ratio Lower Upper
43 100
72 19.2 19.9 29.9#



#29
Tetrahydrofuran
Concen: 1.189 ug/l
RT: 7.836 min Scan# 1000
Delta R.T. 0.012 min
Lab File: VN088249.D
Acq: 11 Nov 2025 12:22

Tgt Ion: 42 Resp: 1864
Ion Ratio Lower Upper
42 100
72 40.8 33.7 50.5
71 12.6 31.9 47.9#

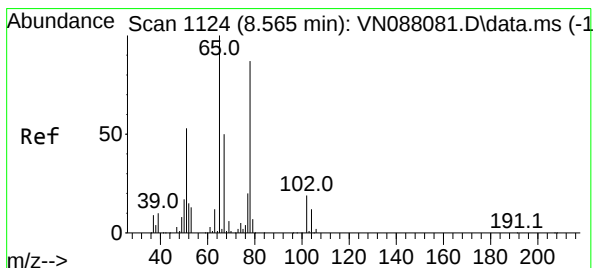
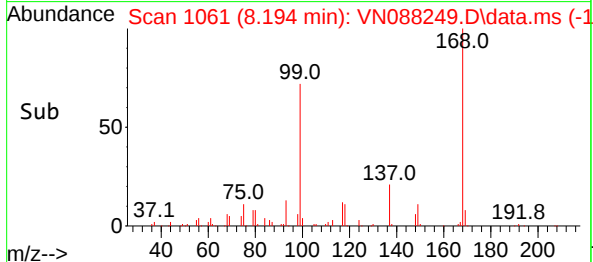
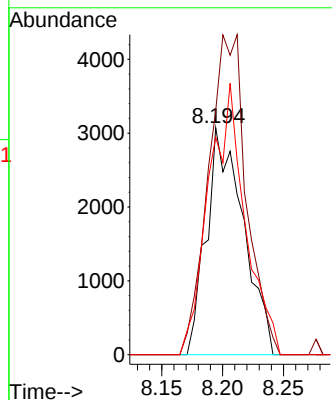
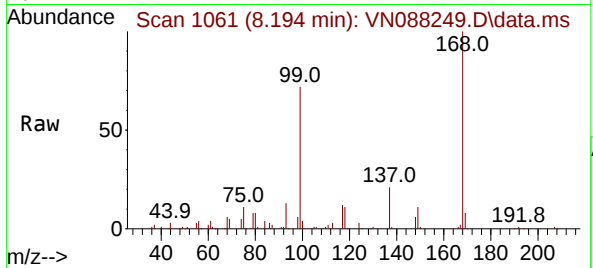




#31
Cyclohexane
Concen: 1.268 ug/l
RT: 8.194 min Scan# 1061
Delta R.T. -0.041 min
Lab File: VN088249.D
Acq: 11 Nov 2025 12:22

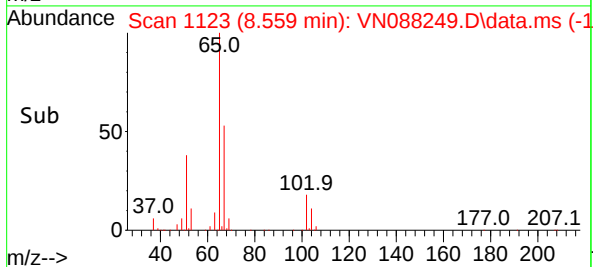
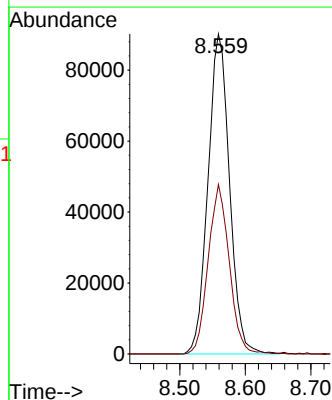
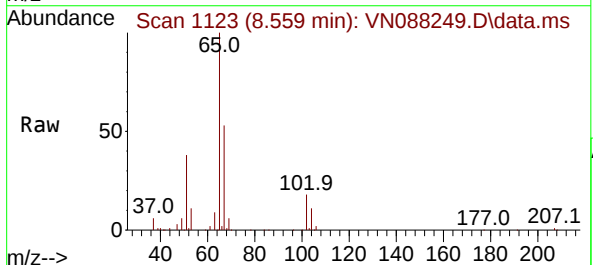
Instrument :
MSVOA_N
ClientSampleId :
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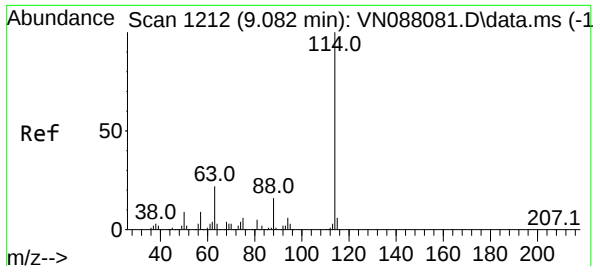
Tgt Ion: 56 Resp: 6449
Ion Ratio Lower Upper
56 100
69 107.5 23.7 35.5#
84 95.8 64.7 97.1



#33
1,2-Dichloroethane-d4
Concen: 56.639 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. -0.000 min
Lab File: VN088249.D
Acq: 11 Nov 2025 12:22

Tgt Ion: 65 Resp: 205802
Ion Ratio Lower Upper
65 100
67 51.8 0.0 100.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN088249.D

Acq: 11 Nov 2025 12:22

Instrument :

MSVOA_N

ClientSampleId :

WC-1A

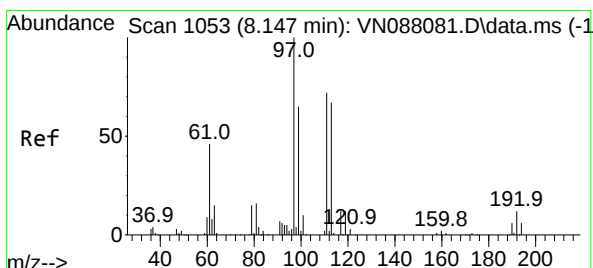
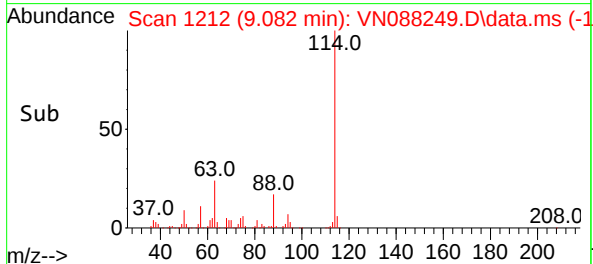
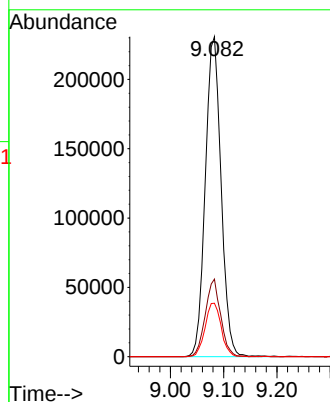
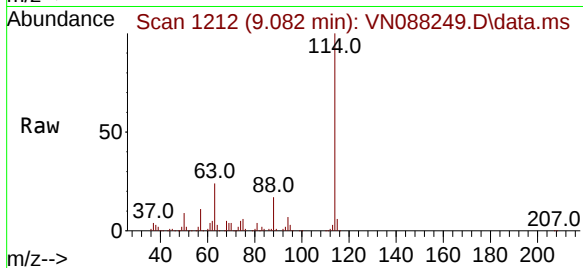
Tgt Ion:114 Resp: 475251

Ion Ratio Lower Upper

114 100

63 24.2 0.0 45.2

88 16.7 0.0 33.4



#35

Dibromofluoromethane

Concen: 48.735 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN088249.D

Acq: 11 Nov 2025 12:22

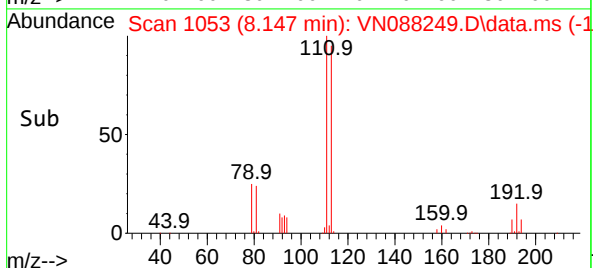
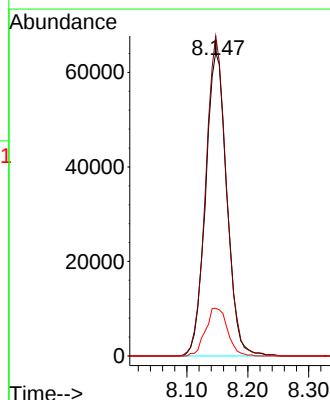
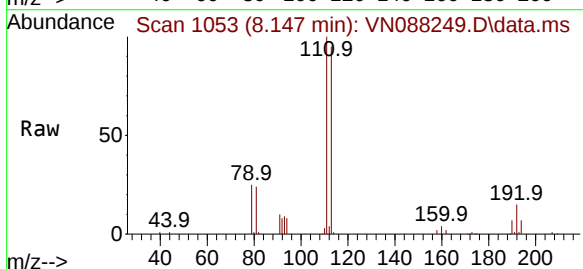
Tgt Ion:113 Resp: 155599

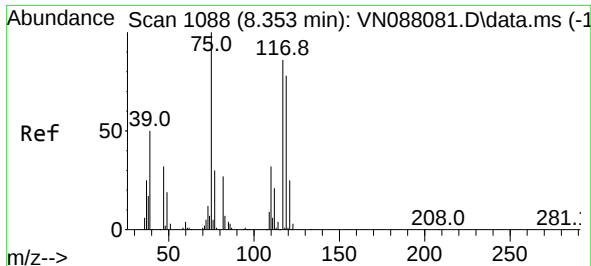
Ion Ratio Lower Upper

113 100

111 102.9 82.8 124.2

192 16.3 12.8 19.2





#36

1,1-Dichloropropene

Concen: 4.539 ug/l

RT: 8.206 min Scan# 1

Delta R.T. -0.147 min

Lab File: VN088249.D

Acq: 11 Nov 2025 12:22

Instrument :

MSVOA_N

ClientSampleId :

WC-1A

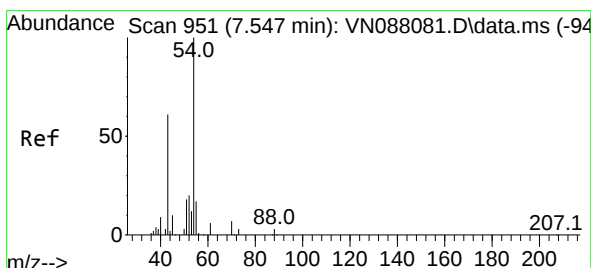
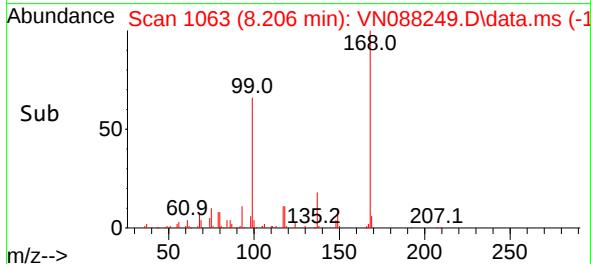
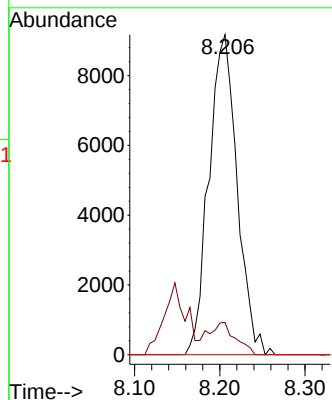
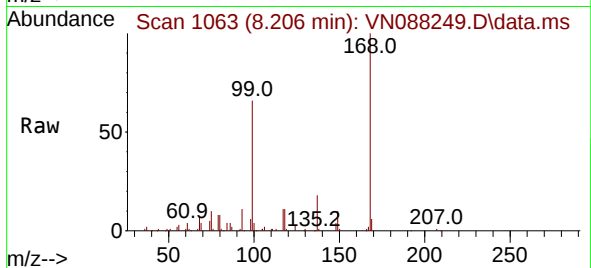
Tgt Ion: 75 Resp: 21158

Ion Ratio Lower Upper

75 100

110 9.5 15.9 47.6#

77 0.0 24.4 36.6#



#37

Ethyl Acetate

Concen: 2.620 ug/l

RT: 7.477 min Scan# 939

Delta R.T. -0.071 min

Lab File: VN088249.D

Acq: 11 Nov 2025 12:22

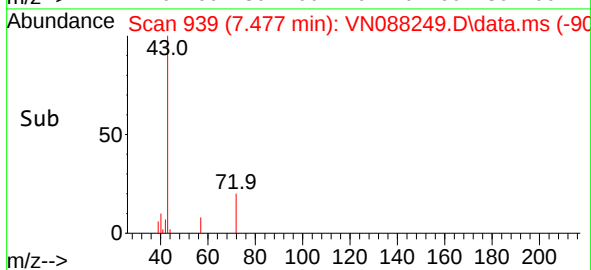
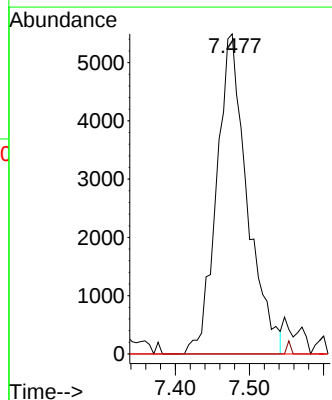
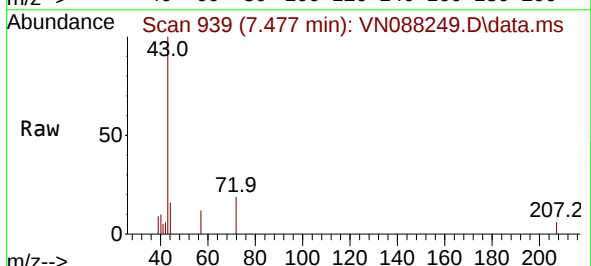
Tgt Ion: 43 Resp: 15764

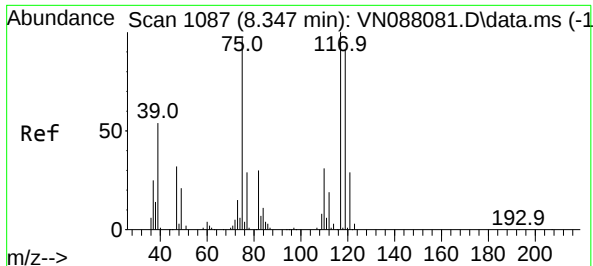
Ion Ratio Lower Upper

43 100

61 0.0 9.3 13.9#

70 0.0 7.0 10.6#

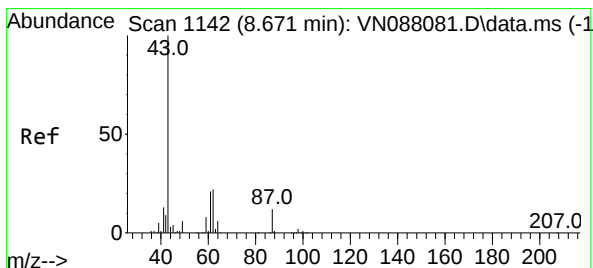
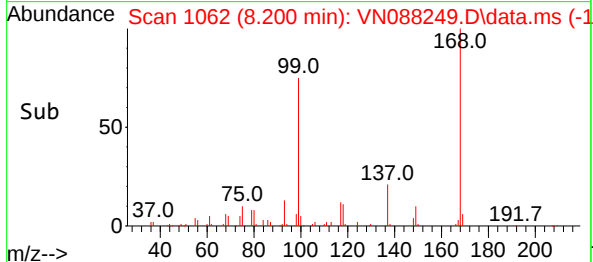
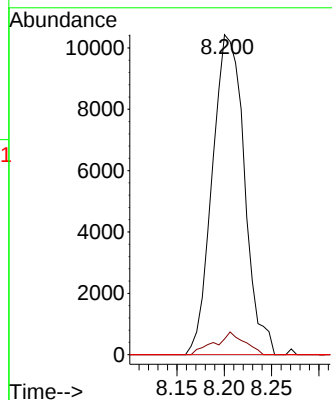
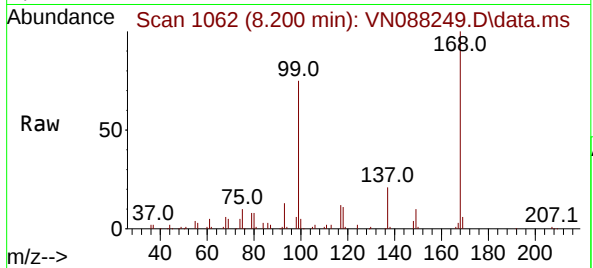




#38
Carbon Tetrachloride
Concen: 5.106 ug/l
RT: 8.200 min Scan# 1106
Delta R.T. -0.141 min
Lab File: VN088249.D
Acq: 11 Nov 2025 12:22

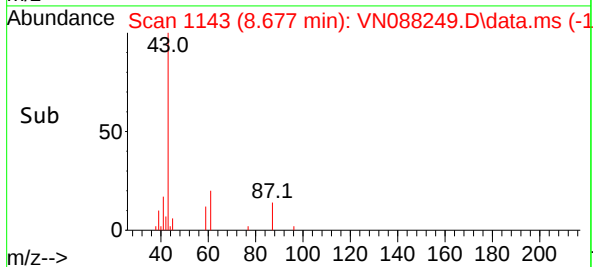
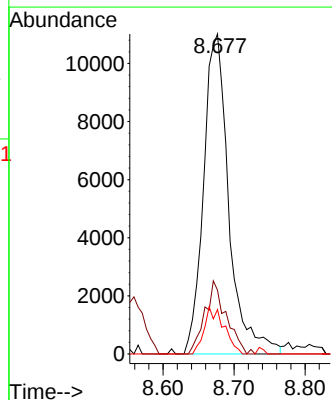
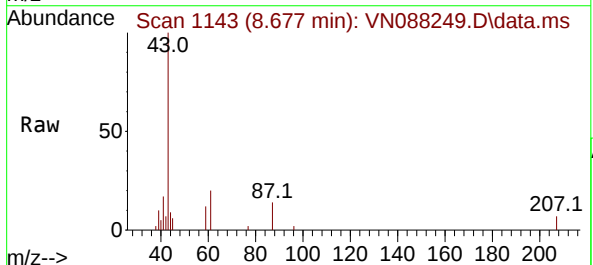
Instrument :
MSVOA_N
ClientSampleId :
WC-1A

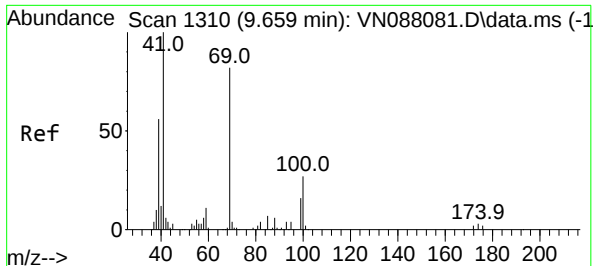
Tgt Ion:117 Resp: 24584
Ion Ratio Lower Upper
117 100
119 4.9 79.0 118.6#
121 0.0 25.0 37.6#



#43
Isopropyl Acetate
Concen: 2.949 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. 0.006 min
Lab File: VN088249.D
Acq: 11 Nov 2025 12:22

Tgt Ion: 43 Resp: 27264
Ion Ratio Lower Upper
43 100
61 19.5 18.8 28.2
87 11.5 9.6 14.4

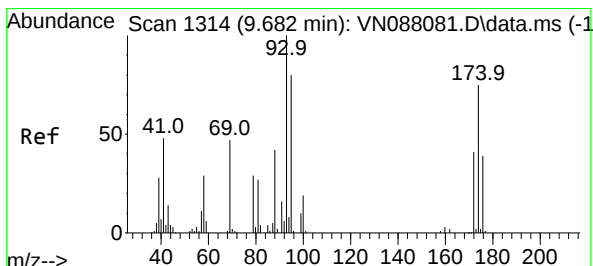
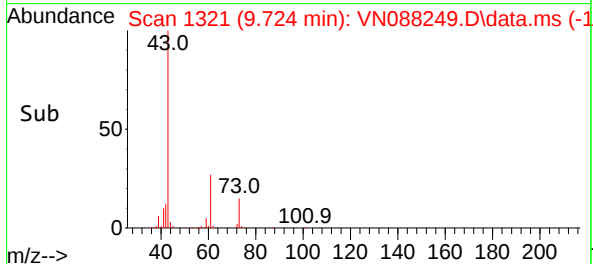
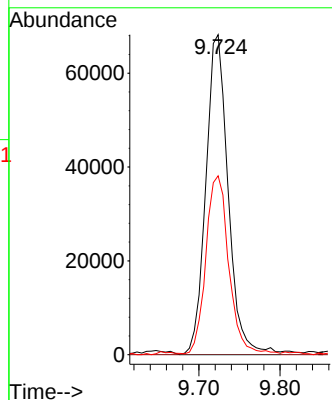
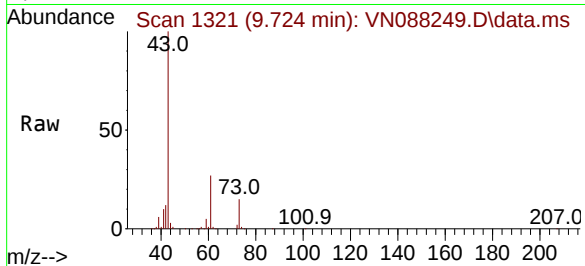




#48
Methyl methacrylate
Concen: 30.515 ug/l
RT: 9.724 min Scan# 1321
Delta R.T. 0.059 min
Lab File: VN088249.D
Acq: 11 Nov 2025 12:22

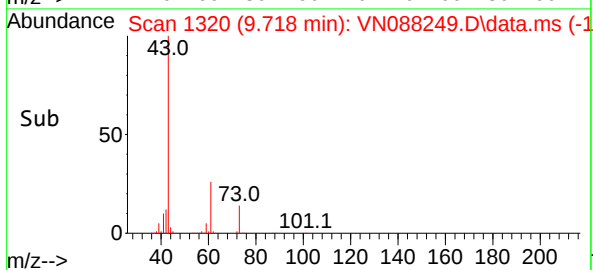
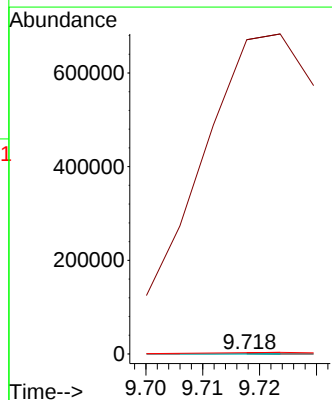
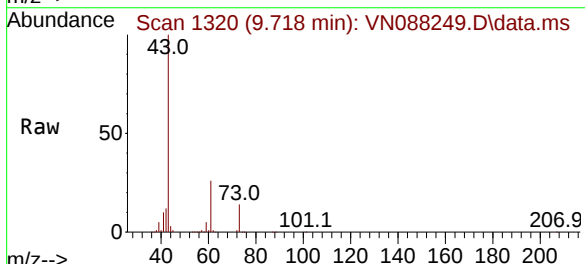
Instrument :
MSVOA_N
ClientSampleId :
WC-1A

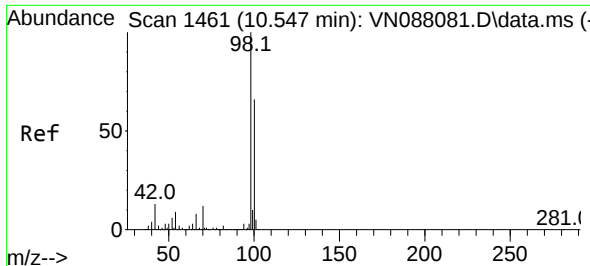
Tgt Ion: 41 Resp: 130236
Ion Ratio Lower Upper
41 100
69 0.0 62.7 94.1#
39 56.8 52.9 79.3



#49
1,4-Dioxane
Concen: 1.771 ug/l
RT: 9.718 min Scan# 1320
Delta R.T. 0.035 min
Lab File: VN088249.D
Acq: 11 Nov 2025 12:22

Tgt Ion: 88 Resp: 94
Ion Ratio Lower Upper
88 100
43 1395413.8 0.0 0.0#
58 6505.3 57.9 86.9#

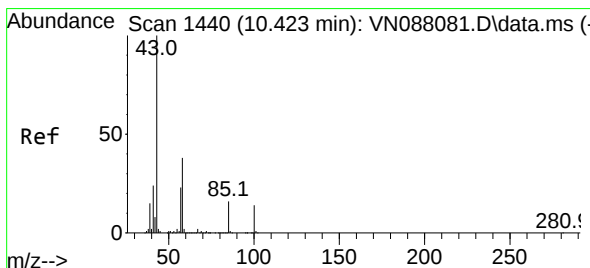
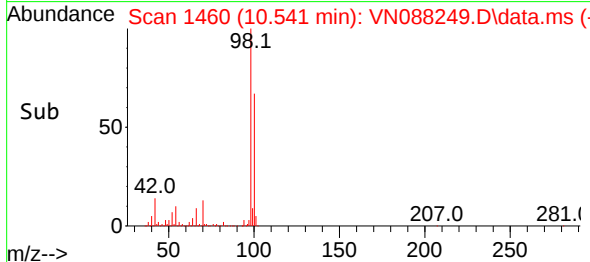
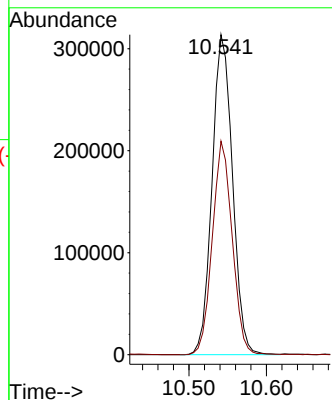
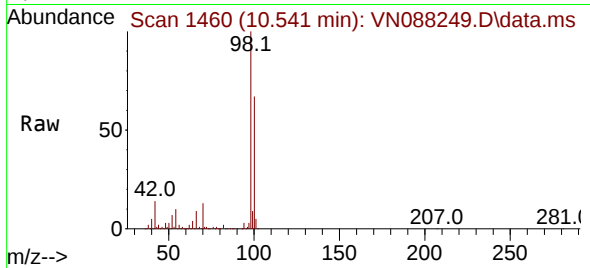




#50
Toluene-d8
Concen: 46.663 ug/l
RT: 10.541 min Scan# 1460
Delta R.T. -0.006 min
Lab File: VN088249.D
Acq: 11 Nov 2025 12:22

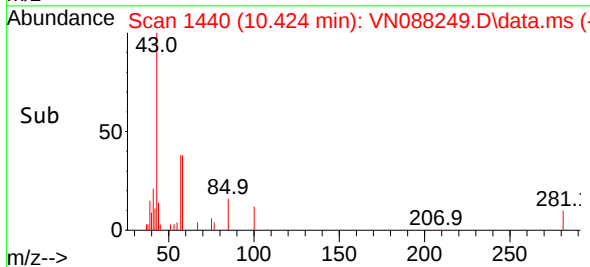
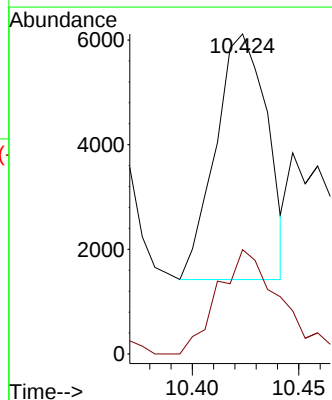
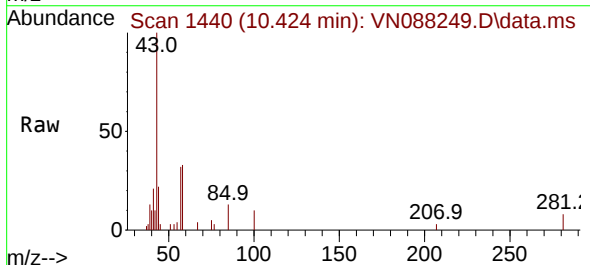
Instrument :
MSVOA_N
ClientSampleId :
WC-1A

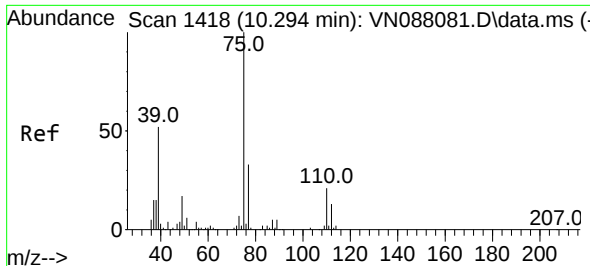
Tgt Ion: 98 Resp: 574057
Ion Ratio Lower Upper
98 100
100 65.0 52.8 79.2



#51
4-Methyl-2-Pentanone
Concen: 1.445 ug/l
RT: 10.424 min Scan# 1440
Delta R.T. -0.000 min
Lab File: VN088249.D
Acq: 11 Nov 2025 12:22

Tgt Ion: 43 Resp: 7905
Ion Ratio Lower Upper
43 100
58 52.7 29.6 44.4#

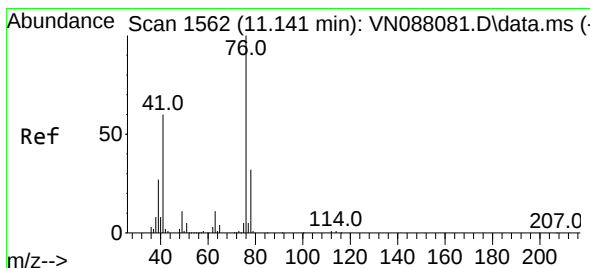
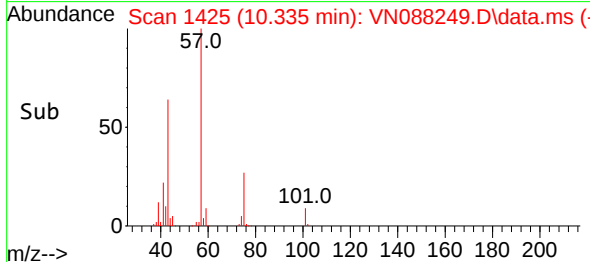
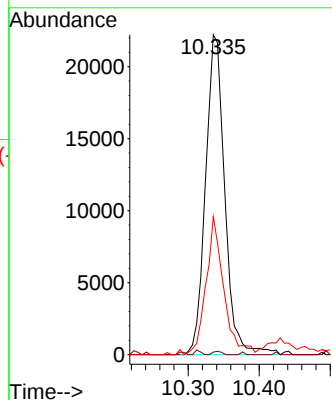
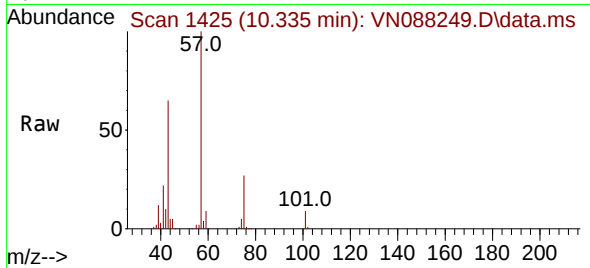




#54
cis-1,3-Dichloropropene
Concen: 7.239 ug/l
RT: 10.335 min Scan# 1418
Delta R.T. 0.047 min
Lab File: VN088249.D
Acq: 11 Nov 2025 12:22

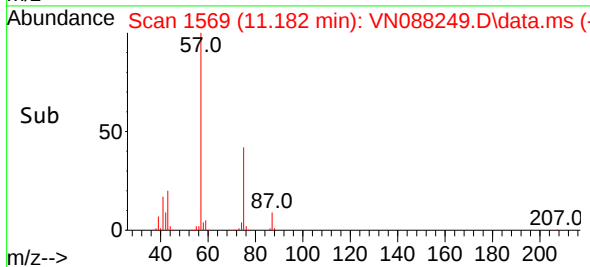
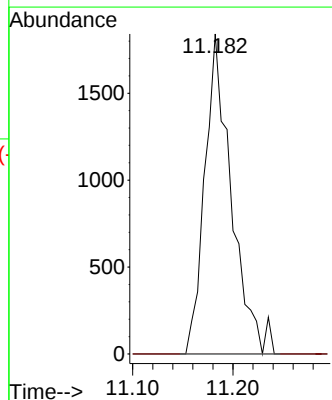
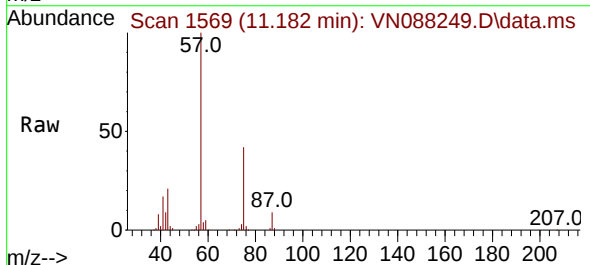
Instrument :
MSVOA_N
ClientSampleId :
WC-1A

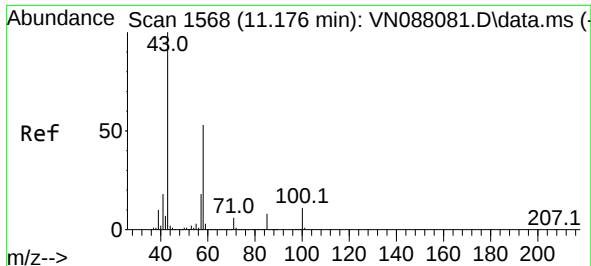
Tgt Ion:	75	Resp:	41845
Ion	Ratio	Lower	Upper
75	100		
77	0.8	24.6	37.0#
39	41.5	45.2	67.8#



#57
1,3-Dichloropropane
Concen: 0.581 ug/l
RT: 11.182 min Scan# 1569
Delta R.T. 0.041 min
Lab File: VN088249.D
Acq: 11 Nov 2025 12:22

Tgt Ion:	76	Resp:	3392
Ion	Ratio	Lower	Upper
76	100		
78	0.0	26.2	39.4#

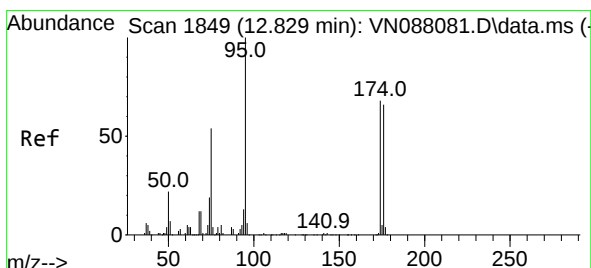
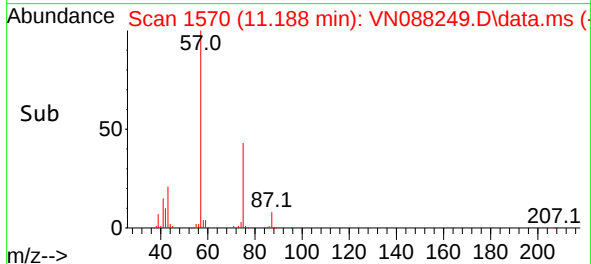
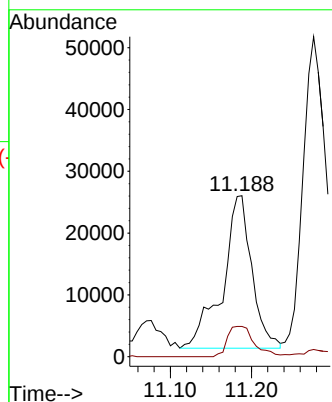
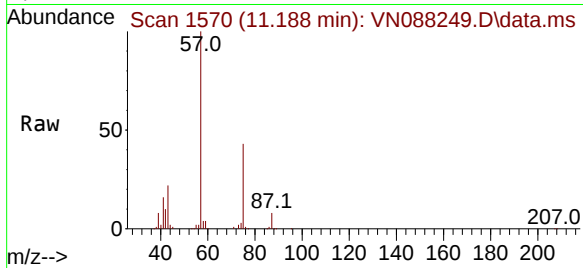




#59
2-Hexanone
Concen: 17.088 ug/l
RT: 11.188 min Scan# 1570
Delta R.T. 0.012 min
Lab File: VN088249.D
Acq: 11 Nov 2025 12:22

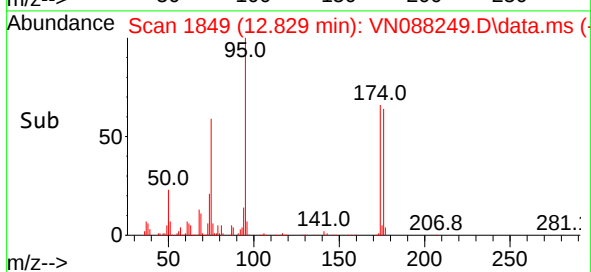
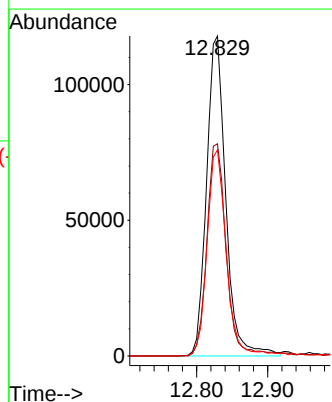
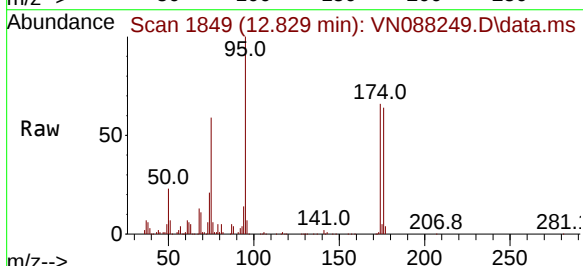
Instrument :
MSVOA_N
ClientSampleId :
WC-1A

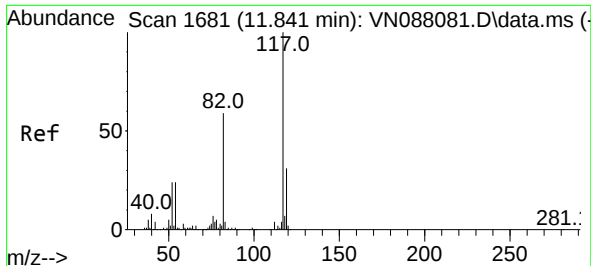
Tgt Ion: 43 Resp: 61993
Ion Ratio Lower Upper
43 100
58 18.1 25.9 77.8#



#62
4-Bromofluorobenzene
Concen: 51.023 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088249.D
Acq: 11 Nov 2025 12:22

Tgt Ion: 95 Resp: 221680
Ion Ratio Lower Upper
95 100
174 67.2 0.0 138.4
176 64.4 0.0 132.6

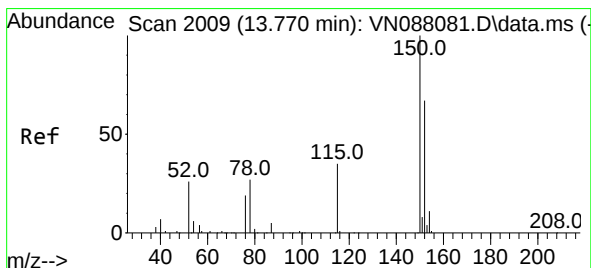
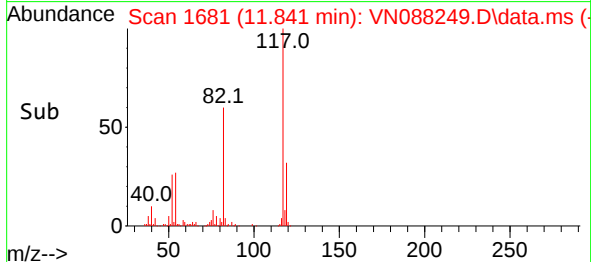
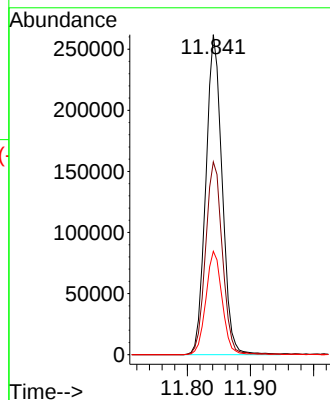
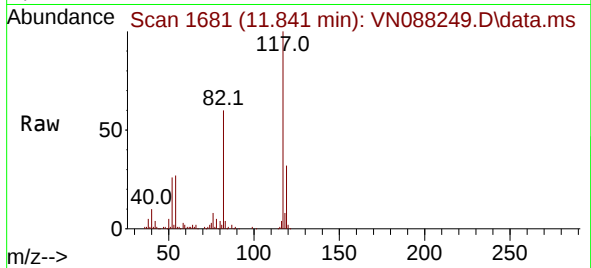




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN088249.D
Acq: 11 Nov 2025 12:22

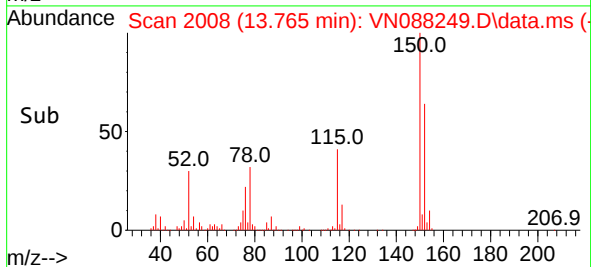
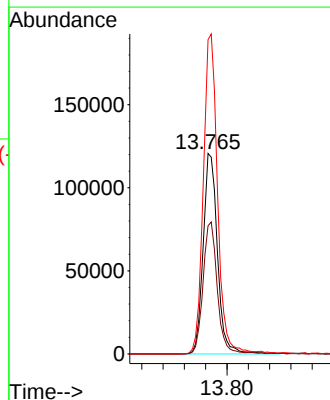
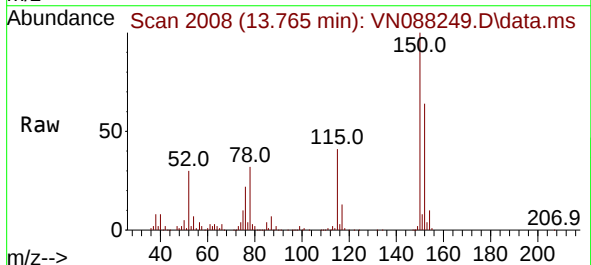
Instrument :
MSVOA_N
ClientSampleId :
WC-1A

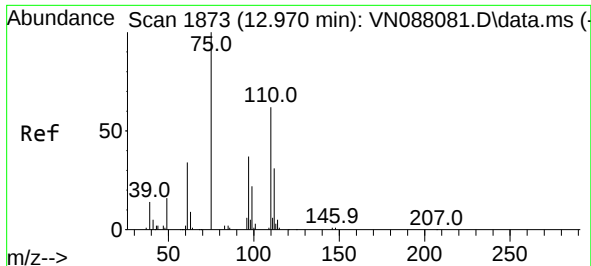
Tgt Ion:117 Resp: 471078
Ion Ratio Lower Upper
117 100
82 60.2 47.4 71.2
119 32.3 24.3 36.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.765 min Scan# 2008
Delta R.T. -0.000 min
Lab File: VN088249.D
Acq: 11 Nov 2025 12:22

Tgt Ion:152 Resp: 224837
Ion Ratio Lower Upper
152 100
115 64.9 32.3 96.8
150 157.9 0.0 351.0

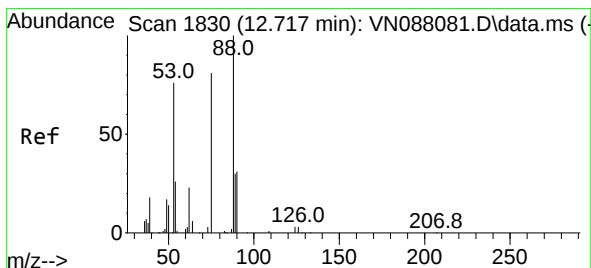
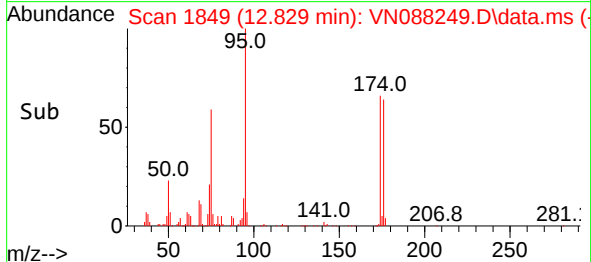
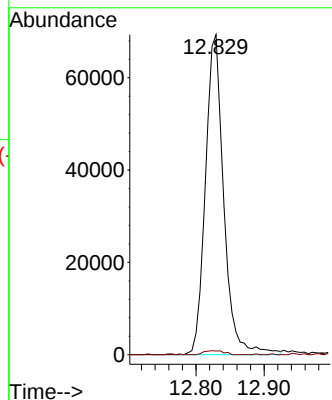
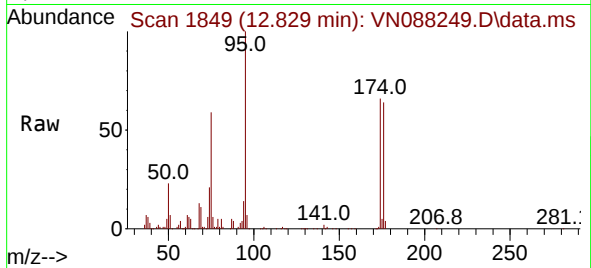




#76
 1,2,3-Trichloropropane
 Concen: 25.219 ug/l
 RT: 12.829 min Scan# 1849
 Delta R.T. -0.141 min
 Lab File: VN088249.D
 Acq: 11 Nov 2025 12:22

Instrument :
 MSVOA_N
 ClientSampleId :
 WC-1A

Tgt Ion: 75 Resp: 129638
 Ion Ratio Lower Upper
 75 100
 77 1.4 89.1 267.4#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 70.350 ug/l
 RT: 12.829 min Scan# 1849
 Delta R.T. 0.112 min
 Lab File: VN088249.D
 Acq: 11 Nov 2025 12:22

Tgt Ion: 75 Resp: 129638
 Ion Ratio Lower Upper
 75 100
 53 0.1 101.8 152.6#
 89 0.1 35.6 53.4#

