

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121025\
 Data File : VN088505.D
 Acq On : 10 Dec 2025 16:52
 Operator : JC\MD
 Sample : Q3814-16
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

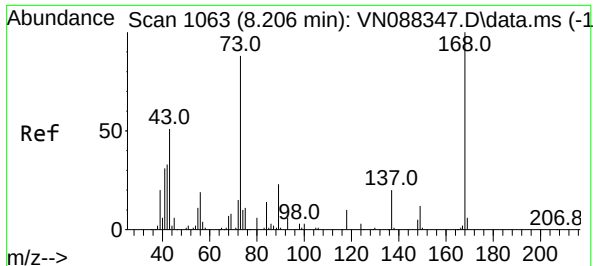
Quant Time: Dec 11 02:11:40 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 25 01:34:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.206	168	201168	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	471841	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	502764	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	223200	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	221608	58.478	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	=	116.960%	
35) Dibromofluoromethane	8.147	113	156591	47.890	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	=	95.780%	
50) Toluene-d8	10.541	98	567799	46.670	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	=	93.340%	
62) 4-Bromofluorobenzene	12.829	95	202616	48.537	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	=	97.080%	
Target Compounds						Qvalue
11) Tert butyl alcohol	5.489	59	1233	2.038	ug/l #	72
14) Allyl chloride	5.259	41	9525	2.094	ug/l #	19
16) Acetone	4.424	43	171550	125.172	ug/l	96
18) Methyl Acetate	5.024	43	7028	1.723	ug/l #	73
20) Methylene Chloride	5.265	84	274426	93.589	ug/l	96
25) 2-Butanone	7.477	43	11856	5.381	ug/l	99
28) Bromochloromethane	7.794	49	739	0.270	ug/l #	48
29) Tetrahydrofuran	7.830	42	624	0.395	ug/l #	47
31) Cyclohexane	8.212	56	7326	1.470	ug/l #	52
36) 1,1-Dichloropropene	8.206	75	21561	4.273	ug/l #	51
38) Carbon Tetrachloride	8.206	117	24444	4.866	ug/l #	18
43) Isopropyl Acetate	8.677	43	27995	2.761	ug/l #	92
48) Methyl methacrylate	9.724	41	130629	28.240	ug/l #	47
49) 1,4-Dioxane	9.724	88	56	0.952	ug/l #	1
51) 4-Methyl-2-Pentanone	10.429	43	14713	2.462	ug/l #	87
54) cis-1,3-Dichloropropene	10.335	75	40426	6.778	ug/l #	75
57) 1,3-Dichloropropane	11.188	76	3046	0.510	ug/l #	42
59) 2-Hexanone	11.188	43	61820	16.422	ug/l #	52
76) 1,2,3-Trichloropropane	12.829	75	121886	23.315	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	121886	66.144	ug/l #	1

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

Quant Time: Dec 11 02:11:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
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QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

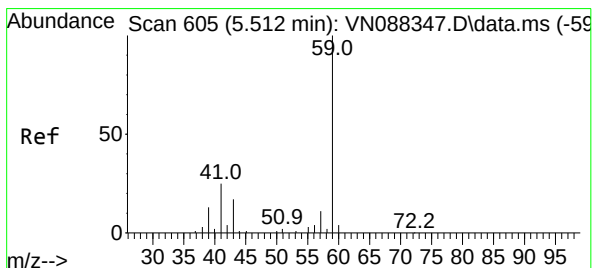
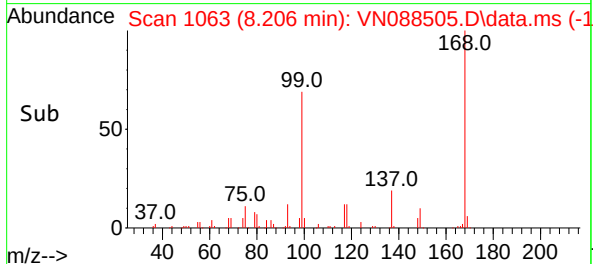
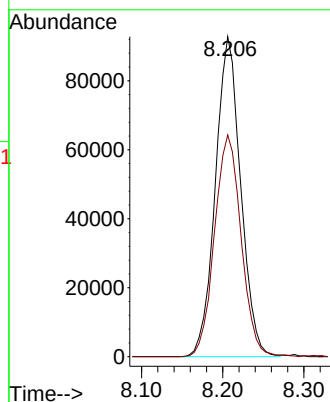
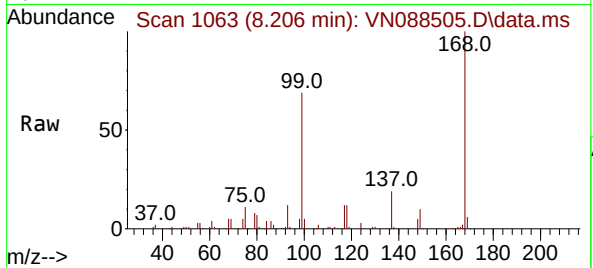




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN088505.D
Acq: 10 Dec 2025 16:52

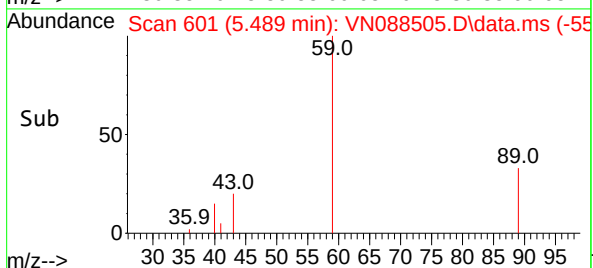
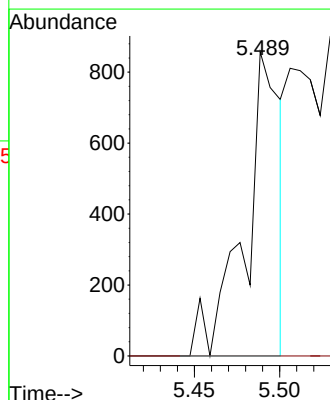
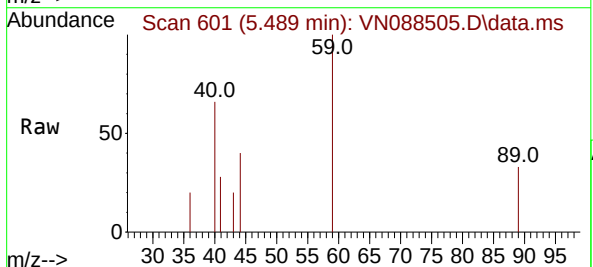
Instrument :
MSVOA_N
ClientSampleId :

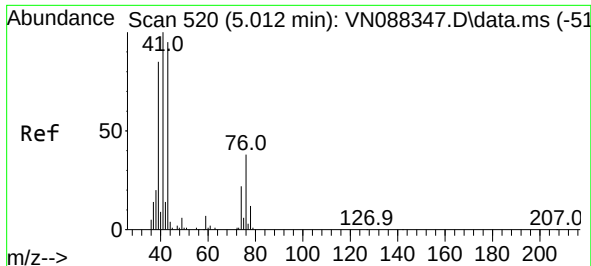
Tgt Ion:168 Resp: 201168
Ion Ratio Lower Upper
168 100
99 69.3 57.1 85.7



#11
Tert butyl alcohol
Concen: 2.038 ug/l
RT: 5.489 min Scan# 601
Delta R.T. -0.023 min
Lab File: VN088505.D
Acq: 10 Dec 2025 16:52

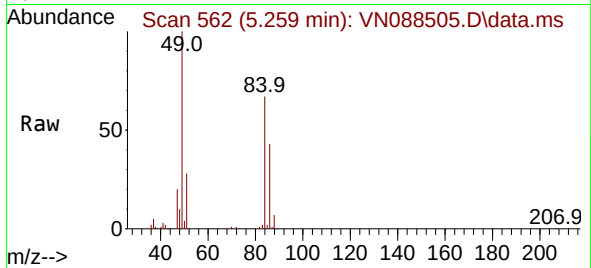
Tgt Ion: 59 Resp: 1233
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#



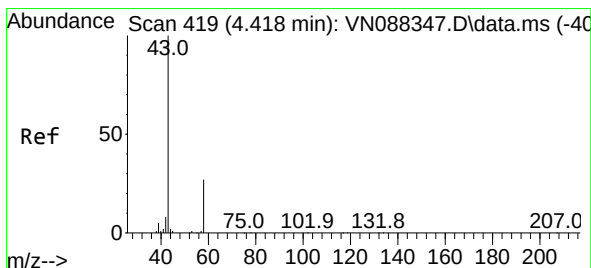
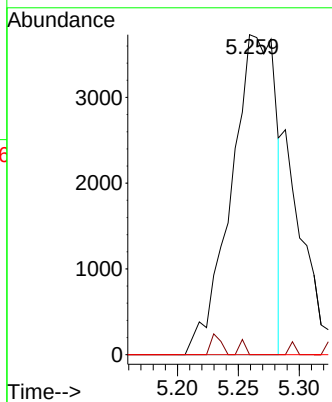
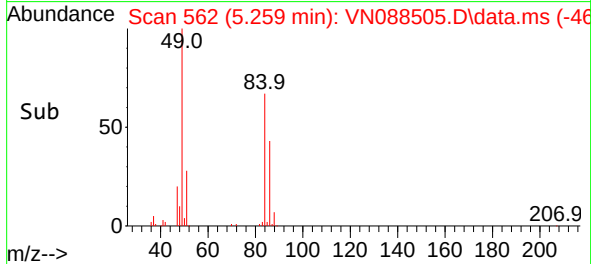


#14
 Allyl chloride
 Concen: 2.094 ug/l
 RT: 5.259 min Scan# 50
 Delta R.T. 0.247 min
 Lab File: VN088505.D
 Acq: 10 Dec 2025 16:52

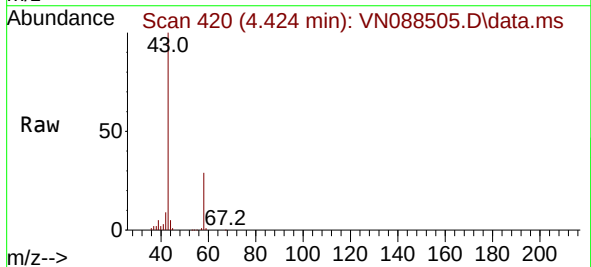
Instrument :
 MSVOA_N
 ClientSampleId :



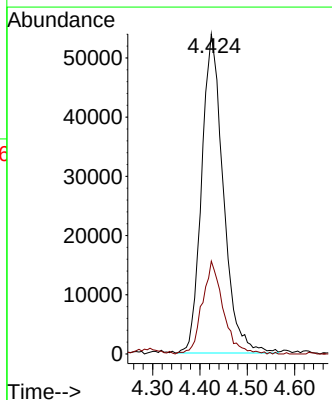
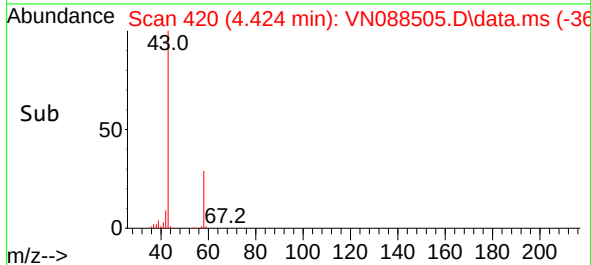
Tgt Ion: 41 Resp: 9525
 Ion Ratio Lower Upper
 41 100
 39 0.7 64.7 97.1#
 76 0.0 29.1 43.7#

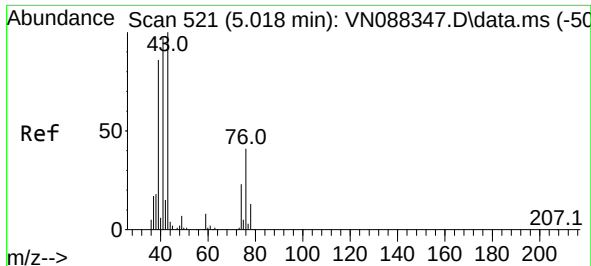


#16
 Acetone
 Concen: 125.172 ug/l
 RT: 4.424 min Scan# 420
 Delta R.T. 0.006 min
 Lab File: VN088505.D
 Acq: 10 Dec 2025 16:52



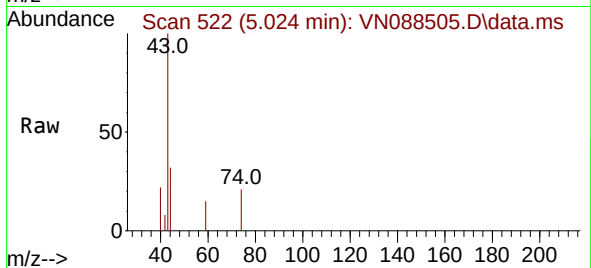
Tgt Ion: 43 Resp: 171550
 Ion Ratio Lower Upper
 43 100
 58 29.1 21.7 32.5



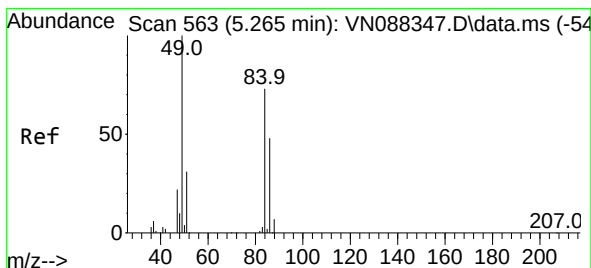
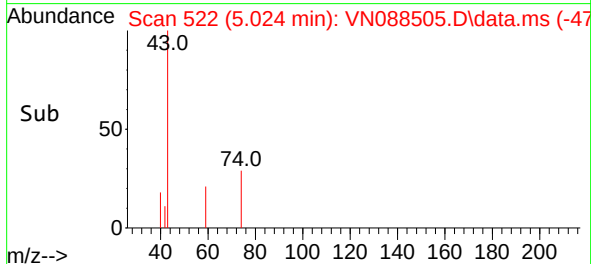
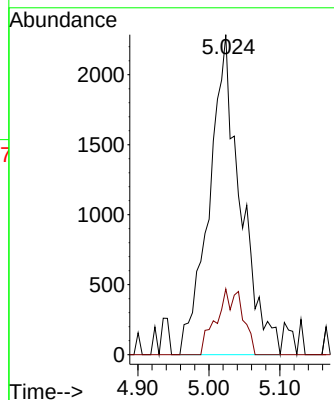


#18
Methyl Acetate
Concen: 1.723 ug/l
RT: 5.024 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN088505.D
Acq: 10 Dec 2025 16:52

Instrument :
MSVOA_N
ClientSampleId :

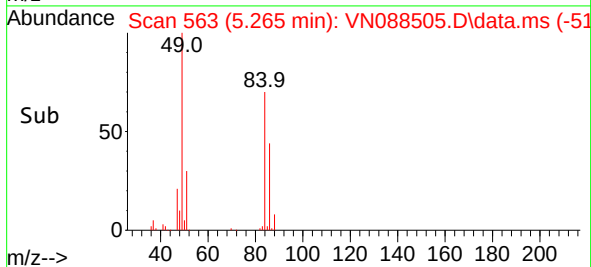
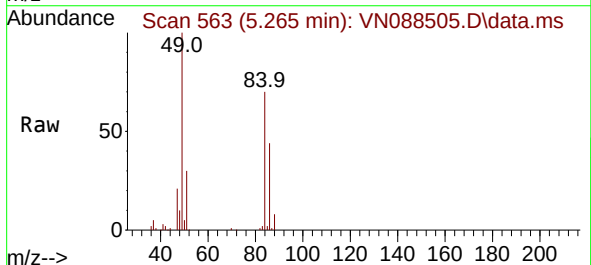
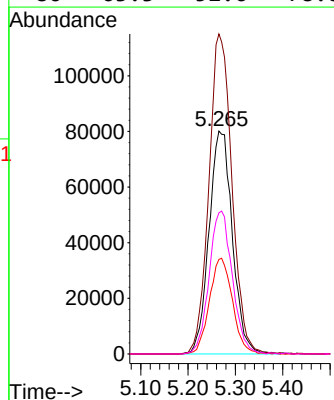


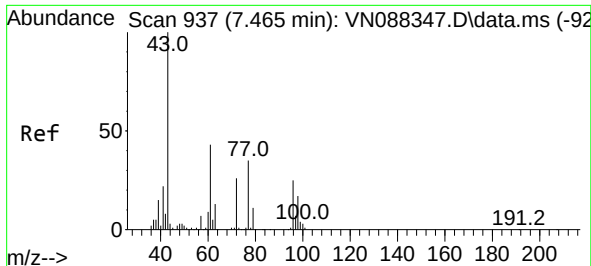
Tgt Ion: 43 Resp: 7028
Ion Ratio Lower Upper
43 100
74 9.7 17.9 26.9#



#20
Methylene Chloride
Concen: 93.589 ug/l
RT: 5.265 min Scan# 563
Delta R.T. 0.000 min
Lab File: VN088505.D
Acq: 10 Dec 2025 16:52

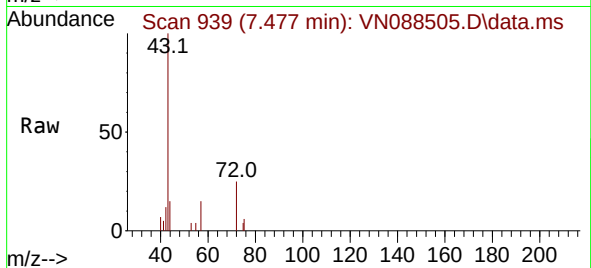
Tgt Ion: 84 Resp: 274426
Ion Ratio Lower Upper
84 100
49 143.6 110.2 165.2
51 42.4 34.1 51.1
86 63.3 52.6 78.8



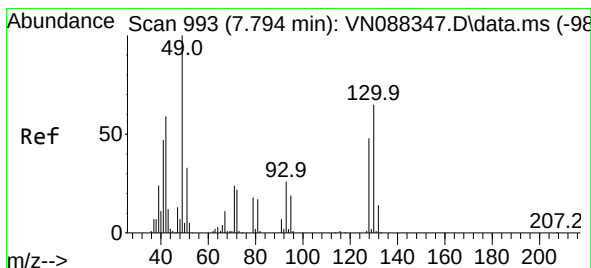
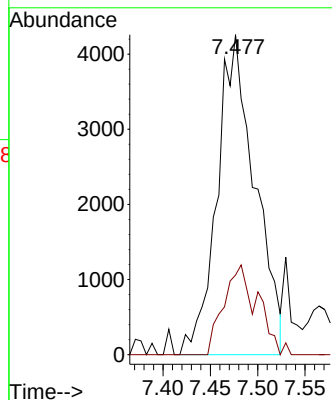
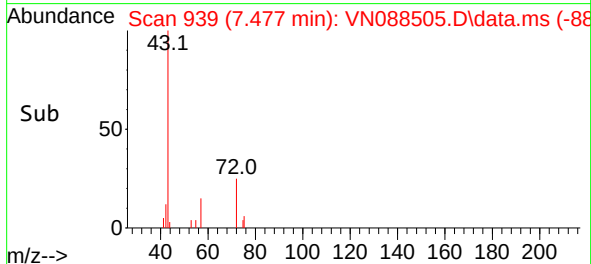


#25
2-Butanone
Concen: 5.381 ug/l
RT: 7.477 min Scan# 911
Delta R.T. 0.012 min
Lab File: VN088505.D
Acq: 10 Dec 2025 16:52

Instrument :
MSVOA_N
ClientSampleId :

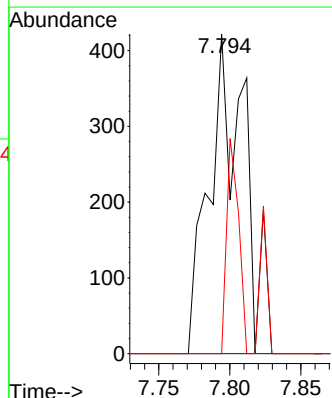
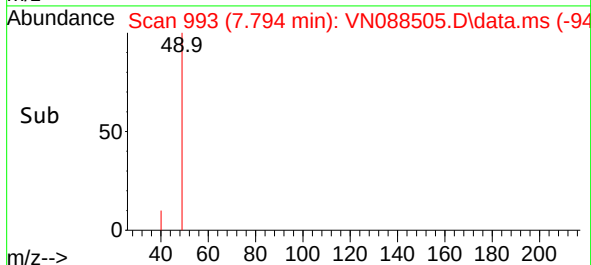
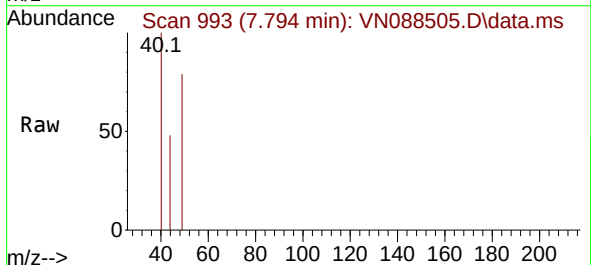


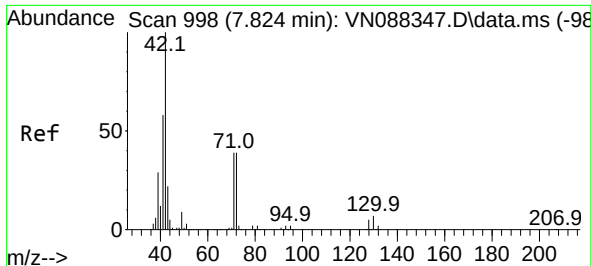
Tgt Ion: 43 Resp: 11856
Ion Ratio Lower Upper
43 100
72 24.9 20.5 30.7



#28
Bromochloromethane
Concen: 0.270 ug/l
RT: 7.794 min Scan# 993
Delta R.T. 0.000 min
Lab File: VN088505.D
Acq: 10 Dec 2025 16:52

Tgt Ion: 49 Resp: 739
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.6
130 22.5 51.1 76.7#





#29

Tetrahydrofuran

Concen: 0.395 ug/l

RT: 7.830 min Scan# 998

Delta R.T. 0.006 min

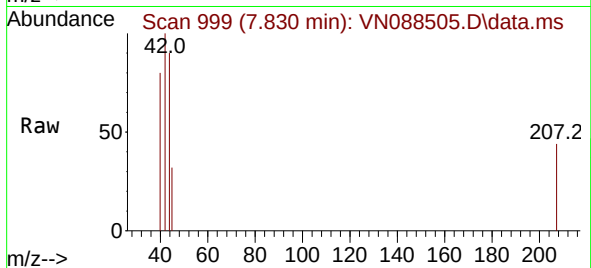
Lab File: VN088505.D

Acq: 10 Dec 2025 16:52

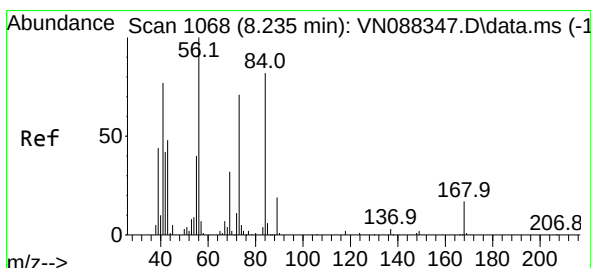
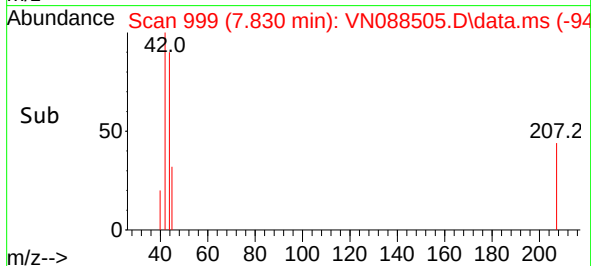
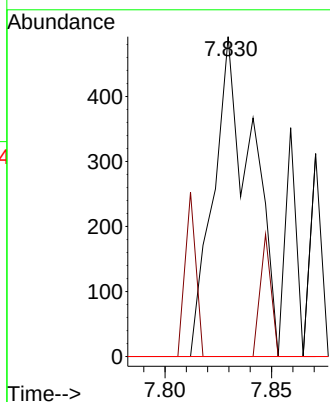
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	42	Resp:	624
Ion	Ratio	Lower	Upper
42	100		
72	14.3	32.2	48.4#
71	0.0	31.1	46.7#



#31

Cyclohexane

Concen: 1.470 ug/l

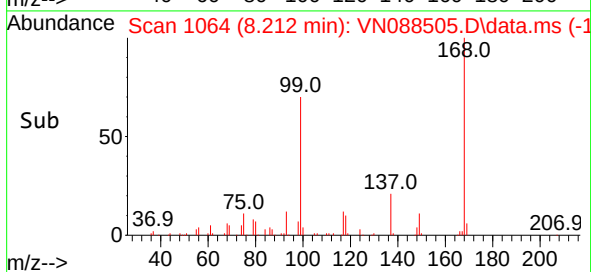
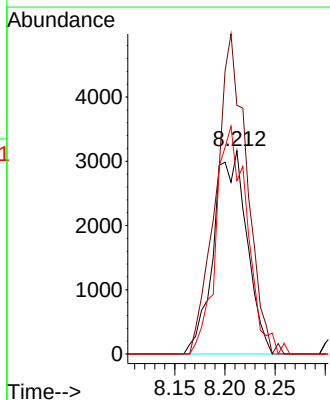
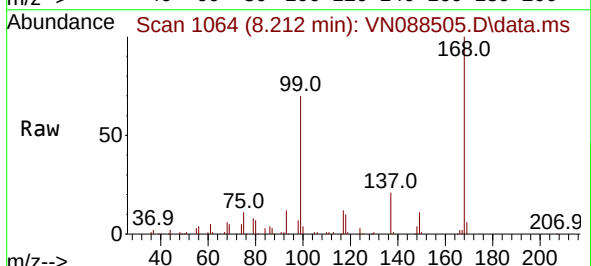
RT: 8.212 min Scan# 1064

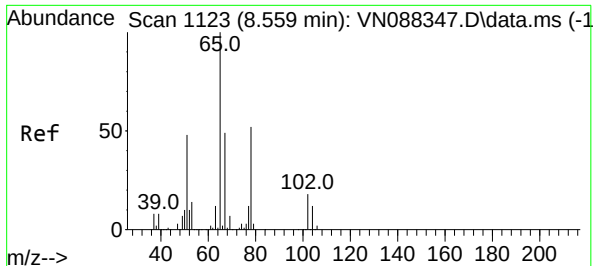
Delta R.T. -0.023 min

Lab File: VN088505.D

Acq: 10 Dec 2025 16:52

Tgt Ion:	56	Resp:	7326
Ion	Ratio	Lower	Upper
56	100		
69	122.4	25.3	37.9#
84	85.3	65.4	98.2





#33

1,2-Dichloroethane-d4

Concen: 58.478 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. 0.000 min

Lab File: VN088505.D

Acq: 10 Dec 2025 16:52

Instrument :

MSVOA_N

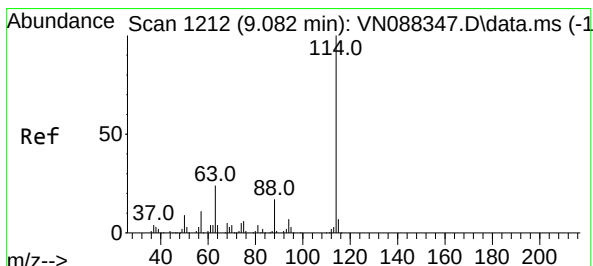
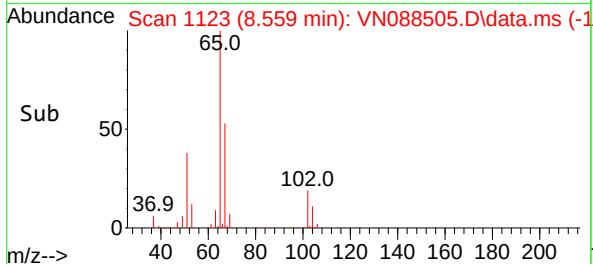
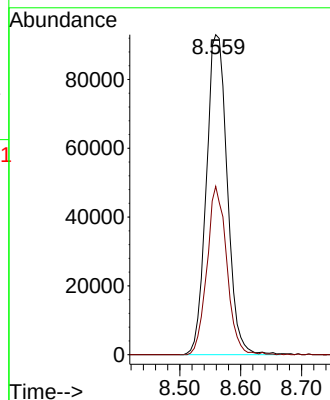
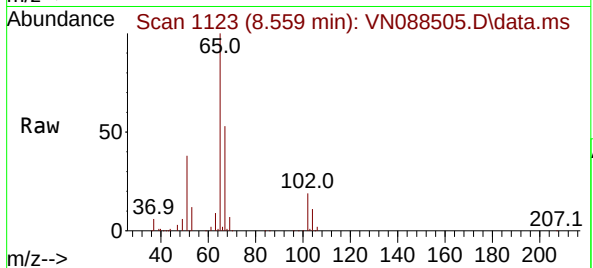
ClientSampleId :

Tgt Ion: 65 Resp: 221608

Ion Ratio Lower Upper

65 100

67 49.5 0.0 100.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 1212

Delta R.T. 0.000 min

Lab File: VN088505.D

Acq: 10 Dec 2025 16:52

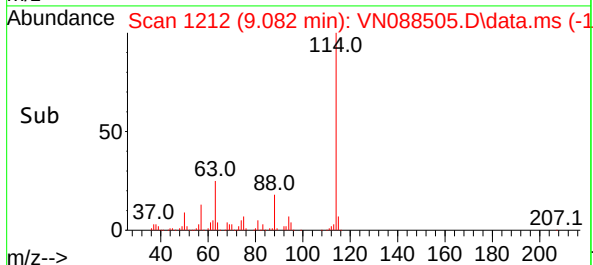
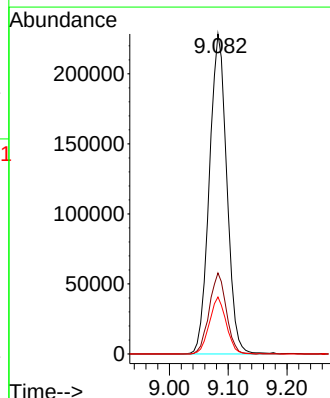
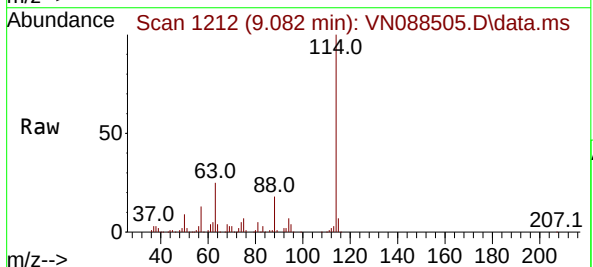
Tgt Ion: 114 Resp: 471841

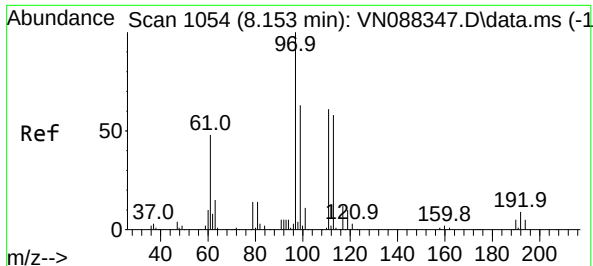
Ion Ratio Lower Upper

114 100

63 25.3 0.0 49.0

88 17.8 0.0 34.0





#35

Dibromofluoromethane

Concen: 47.890 ug/l

RT: 8.147 min Scan# 1

Delta R.T. -0.006 min

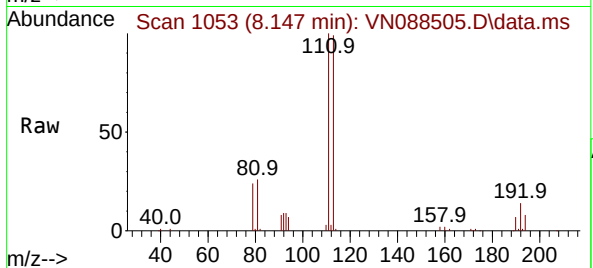
Lab File: VN088505.D

Acq: 10 Dec 2025 16:52

Instrument :

MSVOA_N

ClientSampleId :



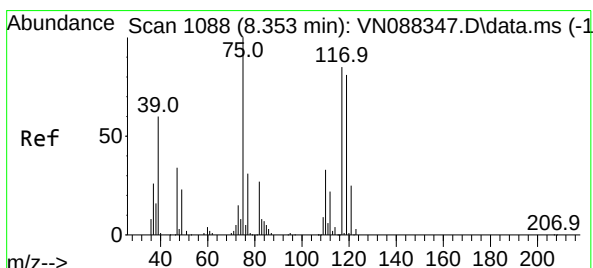
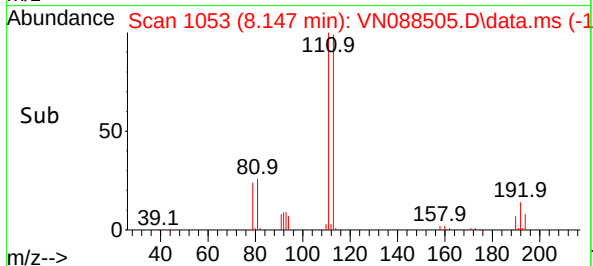
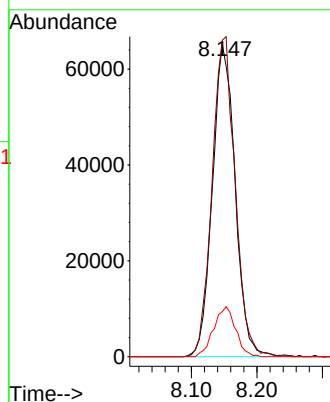
Tgt Ion:113 Resp: 156591

Ion Ratio Lower Upper

113 100

111 104.0 82.5 123.7

192 15.5 12.8 19.2



#36

1,1-Dichloropropene

Concen: 4.273 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.147 min

Lab File: VN088505.D

Acq: 10 Dec 2025 16:52

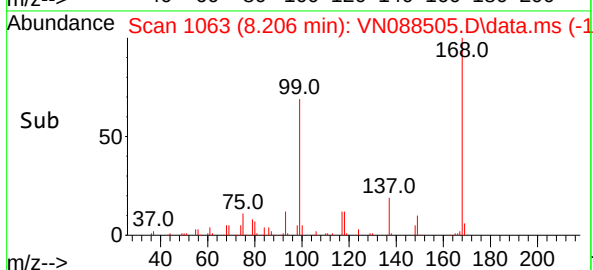
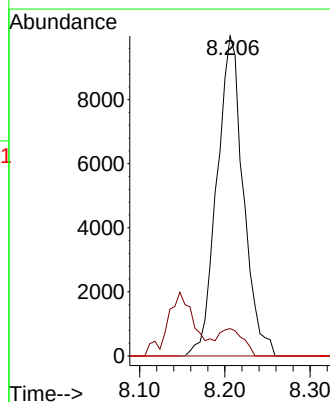
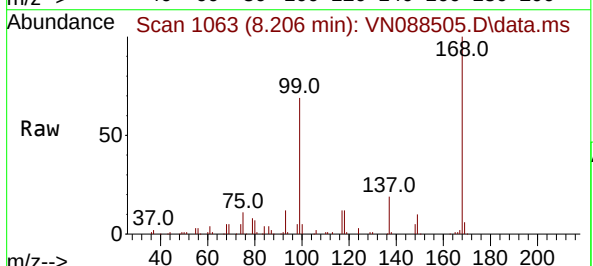
Tgt Ion: 75 Resp: 21561

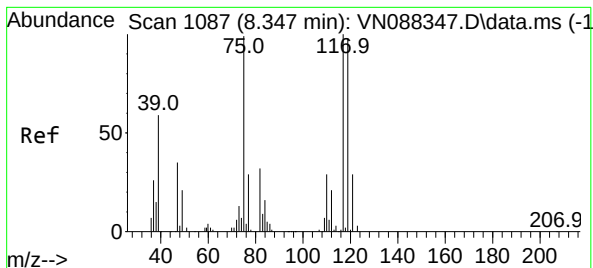
Ion Ratio Lower Upper

75 100

110 7.5 15.8 47.4#

77 0.0 24.2 36.2#





#38

Carbon Tetrachloride

Concen: 4.866 ug/l

RT: 8.206 min Scan# 1106

Delta R.T. -0.141 min

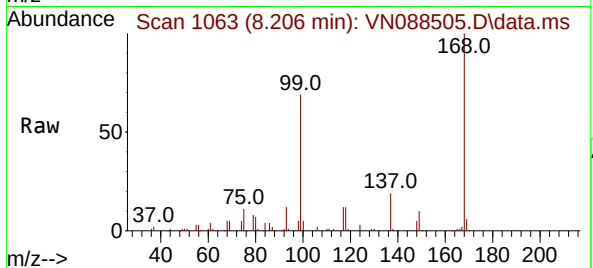
Lab File: VN088505.D

Acq: 10 Dec 2025 16:52

Instrument :

MSVOA_N

ClientSampleId :



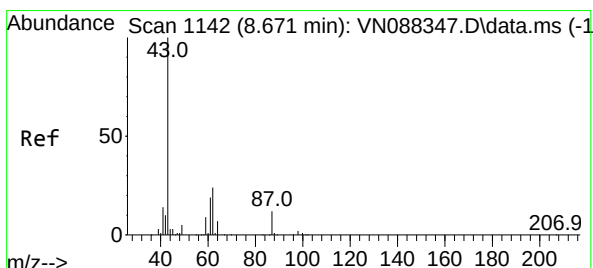
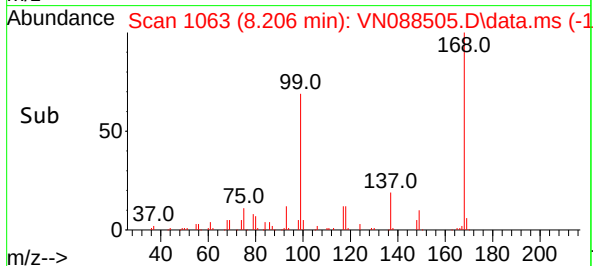
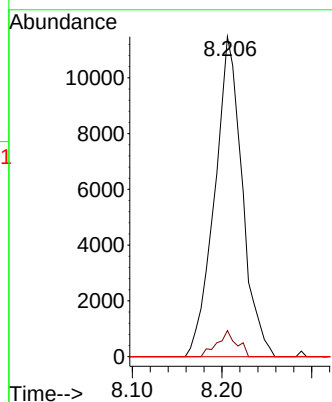
Tgt Ion:117 Resp: 24444

Ion Ratio Lower Upper

117 100

119 8.1 78.2 117.4#

121 0.0 23.4 35.2#



#43

Isopropyl Acetate

Concen: 2.761 ug/l

RT: 8.677 min Scan# 1143

Delta R.T. 0.006 min

Lab File: VN088505.D

Acq: 10 Dec 2025 16:52

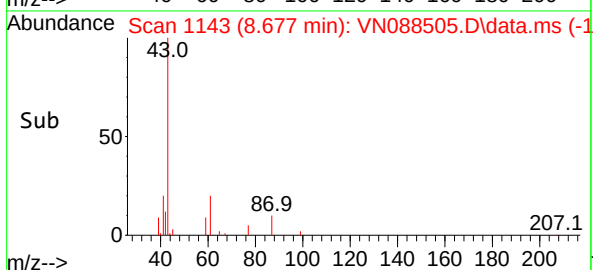
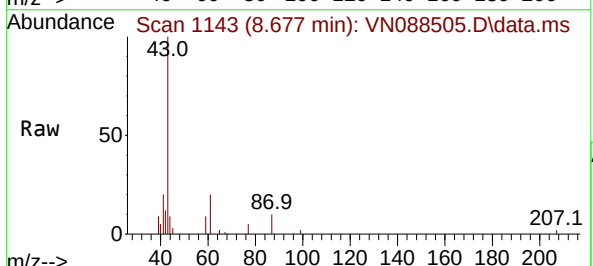
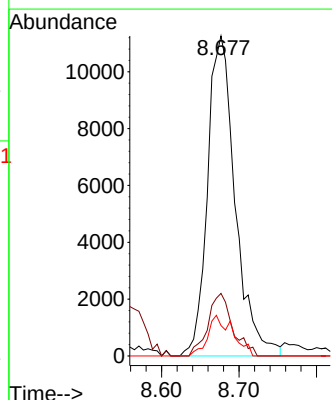
Tgt Ion: 43 Resp: 27995

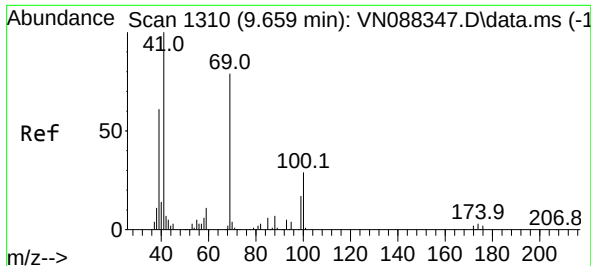
Ion Ratio Lower Upper

43 100

61 17.4 18.7 28.1#

87 11.3 9.1 13.7

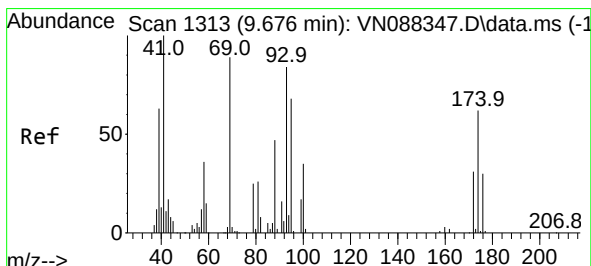
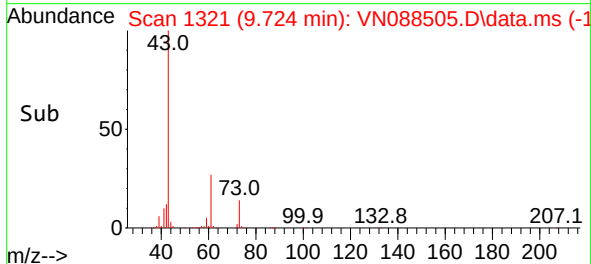
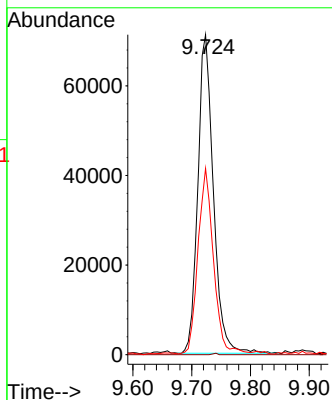
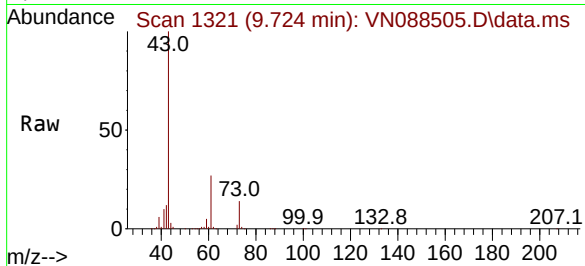




#48
Methyl methacrylate
Concen: 28.240 ug/l
RT: 9.724 min Scan# 1310
Delta R.T. 0.065 min
Lab File: VN088505.D
Acq: 10 Dec 2025 16:52

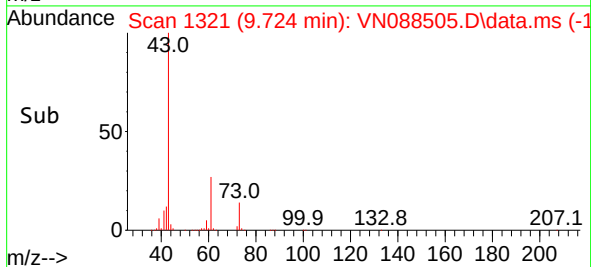
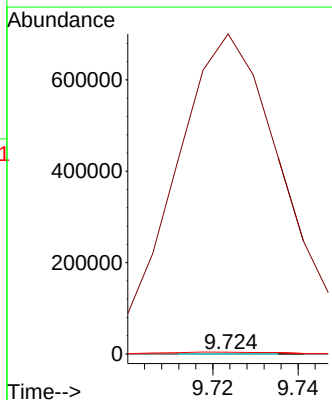
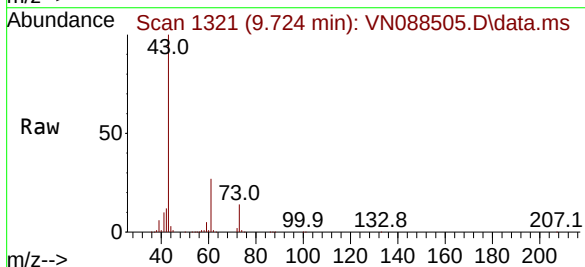
Instrument :
MSVOA_N
ClientSampleId :

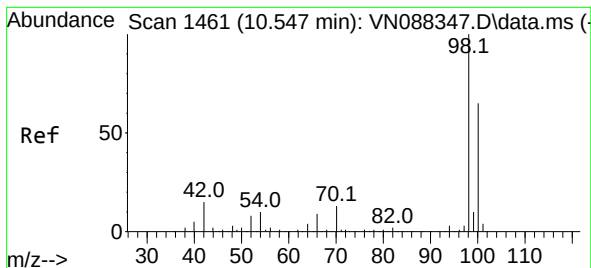
Tgt Ion: 41 Resp: 130629
Ion Ratio Lower Upper
41 100
69 0.1 62.4 93.6#
39 58.0 52.6 79.0



#49
1,4-Dioxane
Concen: 0.952 ug/l
RT: 9.724 min Scan# 1321
Delta R.T. 0.047 min
Lab File: VN088505.D
Acq: 10 Dec 2025 16:52

Tgt Ion: 88 Resp: 56
Ion Ratio Lower Upper
88 100
43 2336298.2 0.0 0.0#
58 14885.7 62.0 93.0#

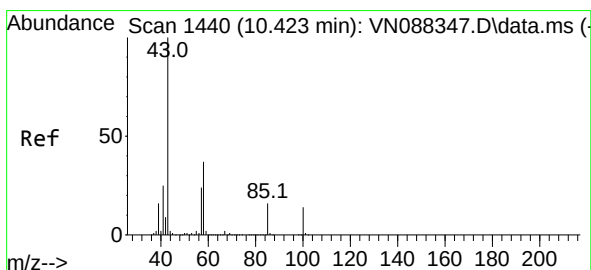
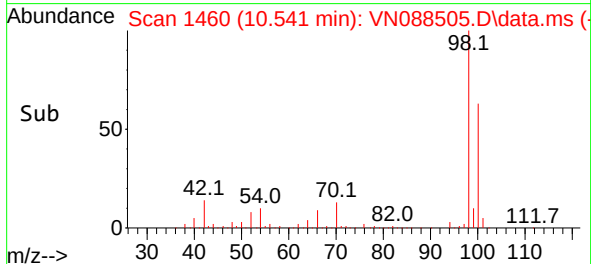
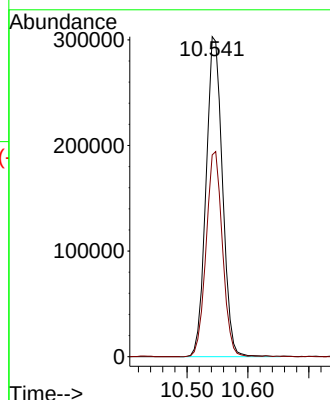
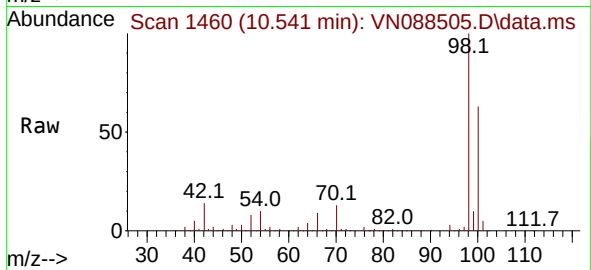




#50
Toluene-d8
Concen: 46.670 ug/l
RT: 10.541 min Scan# 1460
Delta R.T. -0.006 min
Lab File: VN088505.D
Acq: 10 Dec 2025 16:52

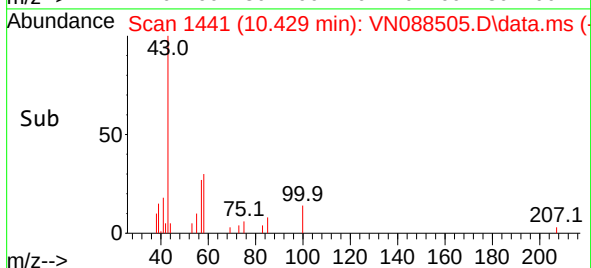
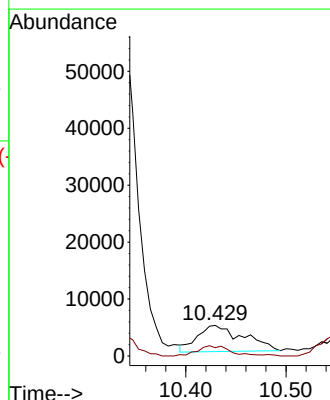
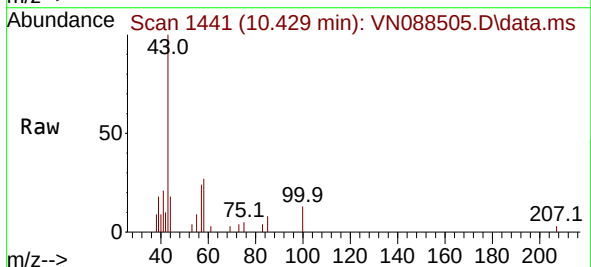
Instrument :
MSVOA_N
ClientSampleId :

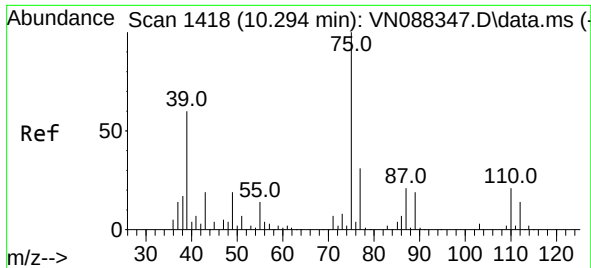
Tgt Ion: 98 Resp: 567799
Ion Ratio Lower Upper
98 100
100 63.8 52.2 78.2



#51
4-Methyl-2-Pentanone
Concen: 2.462 ug/l
RT: 10.429 min Scan# 1441
Delta R.T. 0.006 min
Lab File: VN088505.D
Acq: 10 Dec 2025 16:52

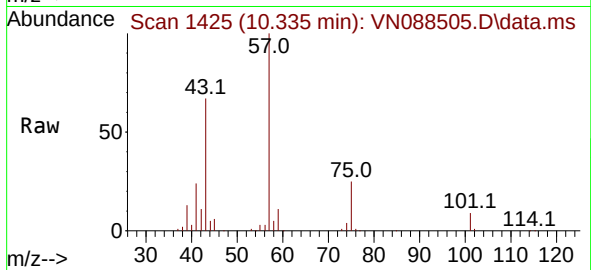
Tgt Ion: 43 Resp: 14713
Ion Ratio Lower Upper
43 100
58 28.6 29.1 43.7#



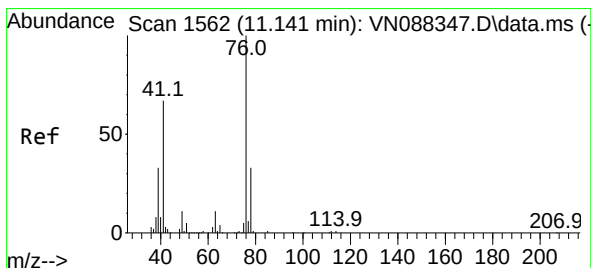
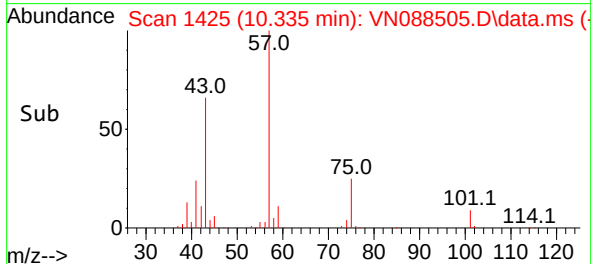
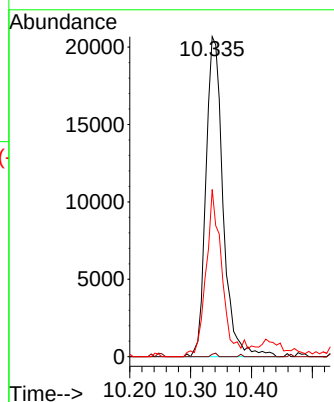


#54
 cis-1,3-Dichloropropene
 Concen: 6.778 ug/l
 RT: 10.335 min Scan# 1418
 Delta R.T. 0.041 min
 Lab File: VN088505.D
 Acq: 10 Dec 2025 16:52

Instrument :
 MSVOA_N
 ClientSampleId :

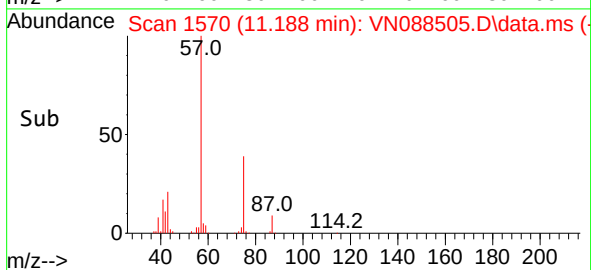
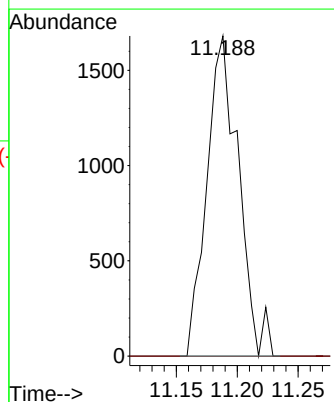
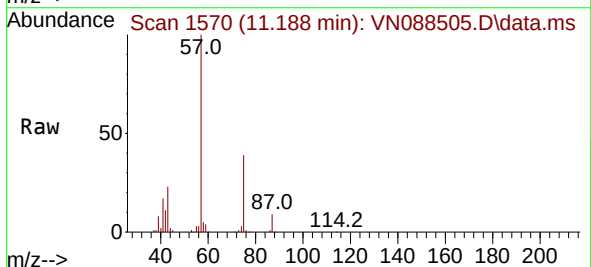


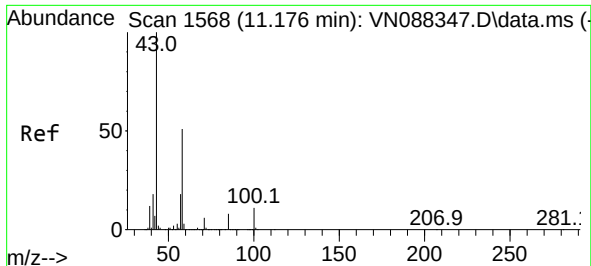
Tgt Ion	Ratio	Lower	Upper
75	100		
77	0.8	24.5	36.7#
39	52.2	48.3	72.5



#57
 1,3-Dichloropropane
 Concen: 0.510 ug/l
 RT: 11.188 min Scan# 1570
 Delta R.T. 0.047 min
 Lab File: VN088505.D
 Acq: 10 Dec 2025 16:52

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

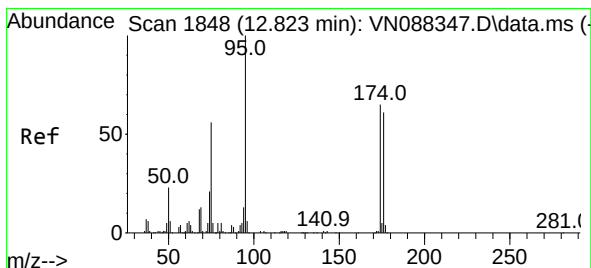
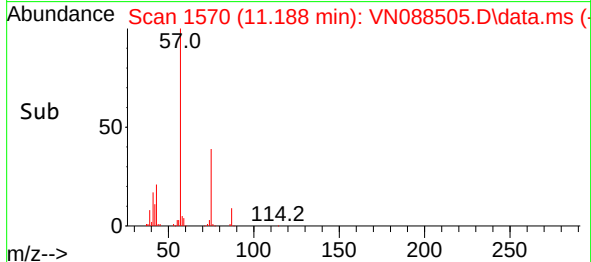
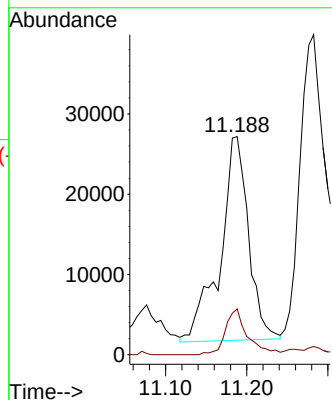
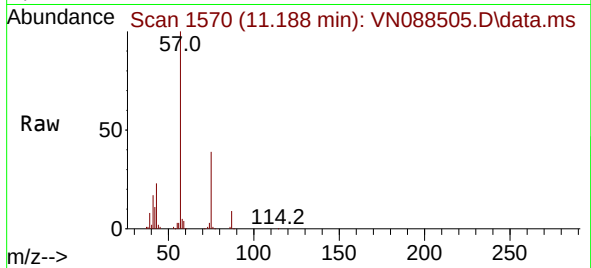




#59
2-Hexanone
Concen: 16.422 ug/l
RT: 11.188 min Scan# 111
Delta R.T. 0.012 min
Lab File: VN088505.D
Acq: 10 Dec 2025 16:52

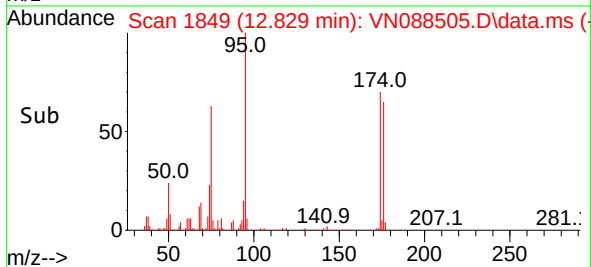
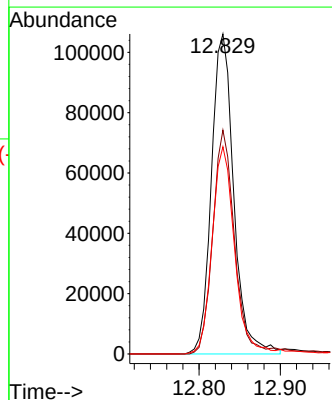
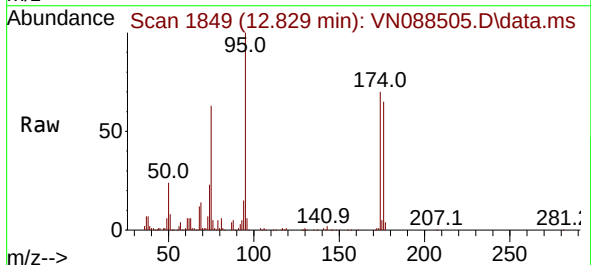
Instrument :
MSVOA_N
ClientSampleId :

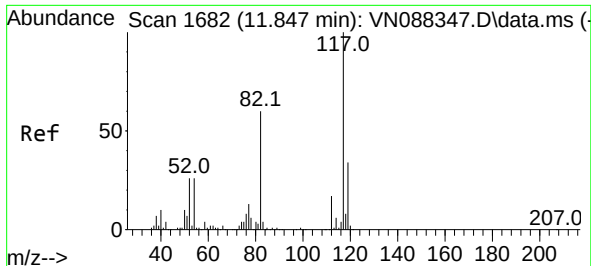
Tgt Ion: 43 Resp: 61820
Ion Ratio Lower Upper
43 100
58 17.5 25.3 75.9#



#62
4-Bromofluorobenzene
Concen: 48.537 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088505.D
Acq: 10 Dec 2025 16:52

Tgt Ion: 95 Resp: 202616
Ion Ratio Lower Upper
95 100
174 69.2 0.0 139.0
176 66.2 0.0 132.4

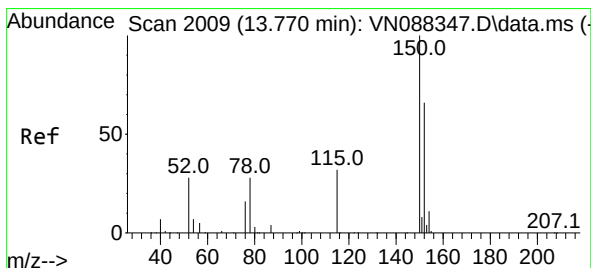
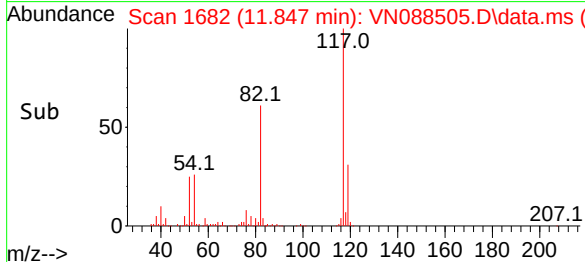
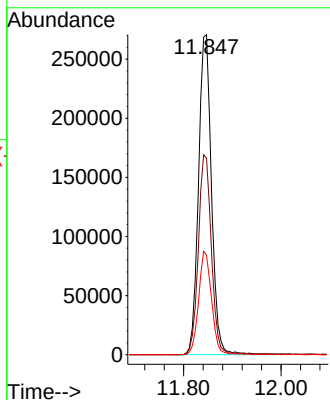
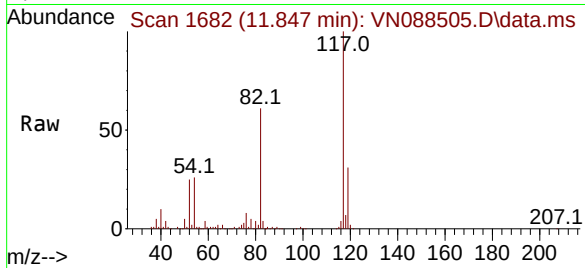




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN088505.D
Acq: 10 Dec 2025 16:52

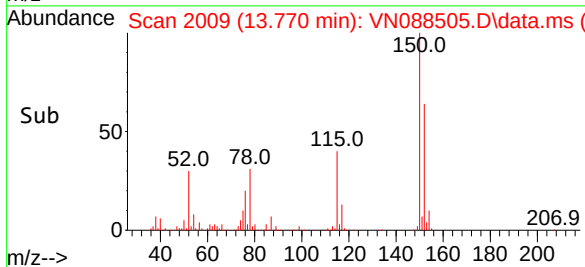
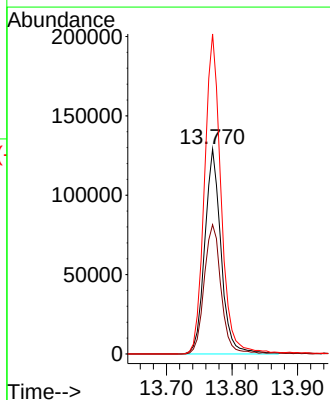
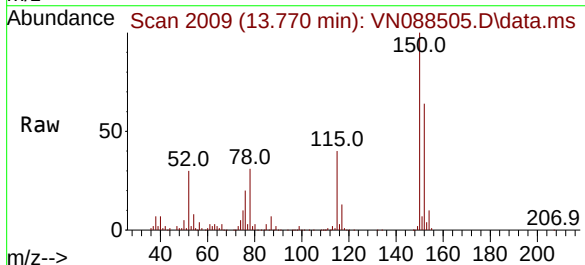
Instrument :
MSVOA_N
ClientSampleId :

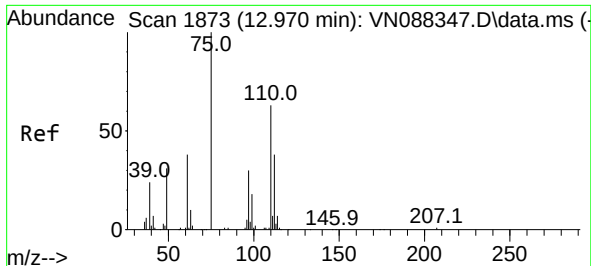
Tgt Ion:117 Resp: 502764
Ion Ratio Lower Upper
117 100
82 61.5 47.8 71.8
119 31.0 26.9 40.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. 0.000 min
Lab File: VN088505.D
Acq: 10 Dec 2025 16:52

Tgt Ion:152 Resp: 223200
Ion Ratio Lower Upper
152 100
115 65.4 33.0 98.9
150 158.6 0.0 349.0

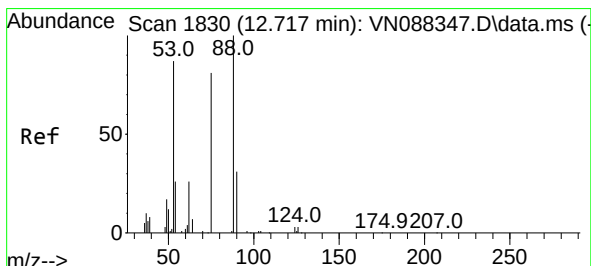
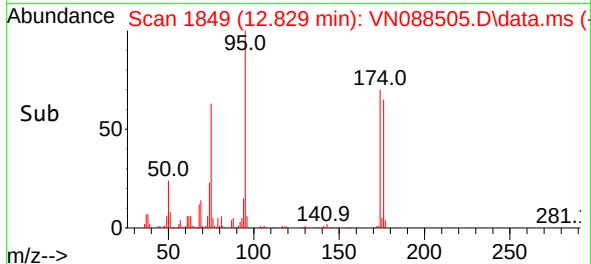
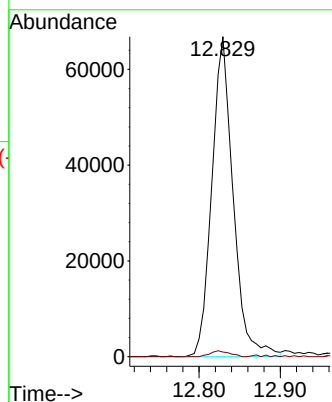
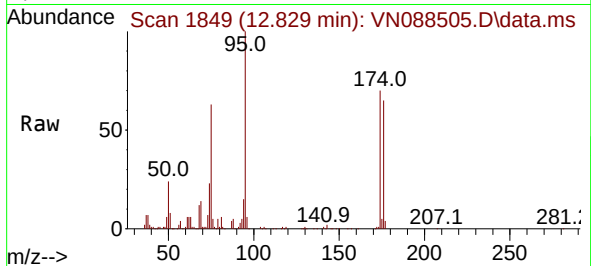




#76
 1,2,3-Trichloropropane
 Concen: 23.315 ug/l
 RT: 12.829 min Scan# 1849
 Delta R.T. -0.141 min
 Lab File: VN088505.D
 Acq: 10 Dec 2025 16:52

Instrument :
 MSVOA_N
 ClientSampleId :

Tgt Ion: 75 Resp: 121886
 Ion Ratio Lower Upper
 75 100
 77 1.7 87.2 261.6#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 66.144 ug/l
 RT: 12.829 min Scan# 1849
 Delta R.T. 0.112 min
 Lab File: VN088505.D
 Acq: 10 Dec 2025 16:52

Tgt Ion: 75 Resp: 121886
 Ion Ratio Lower Upper
 75 100
 53 0.3 92.2 138.4#
 89 0.4 0.0 0.0#

