

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121025\
 Data File : VN088512.D
 Acq On : 10 Dec 2025 19:18
 Operator : JC\MD
 Sample : Q3826-12
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 11 02:15:12 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

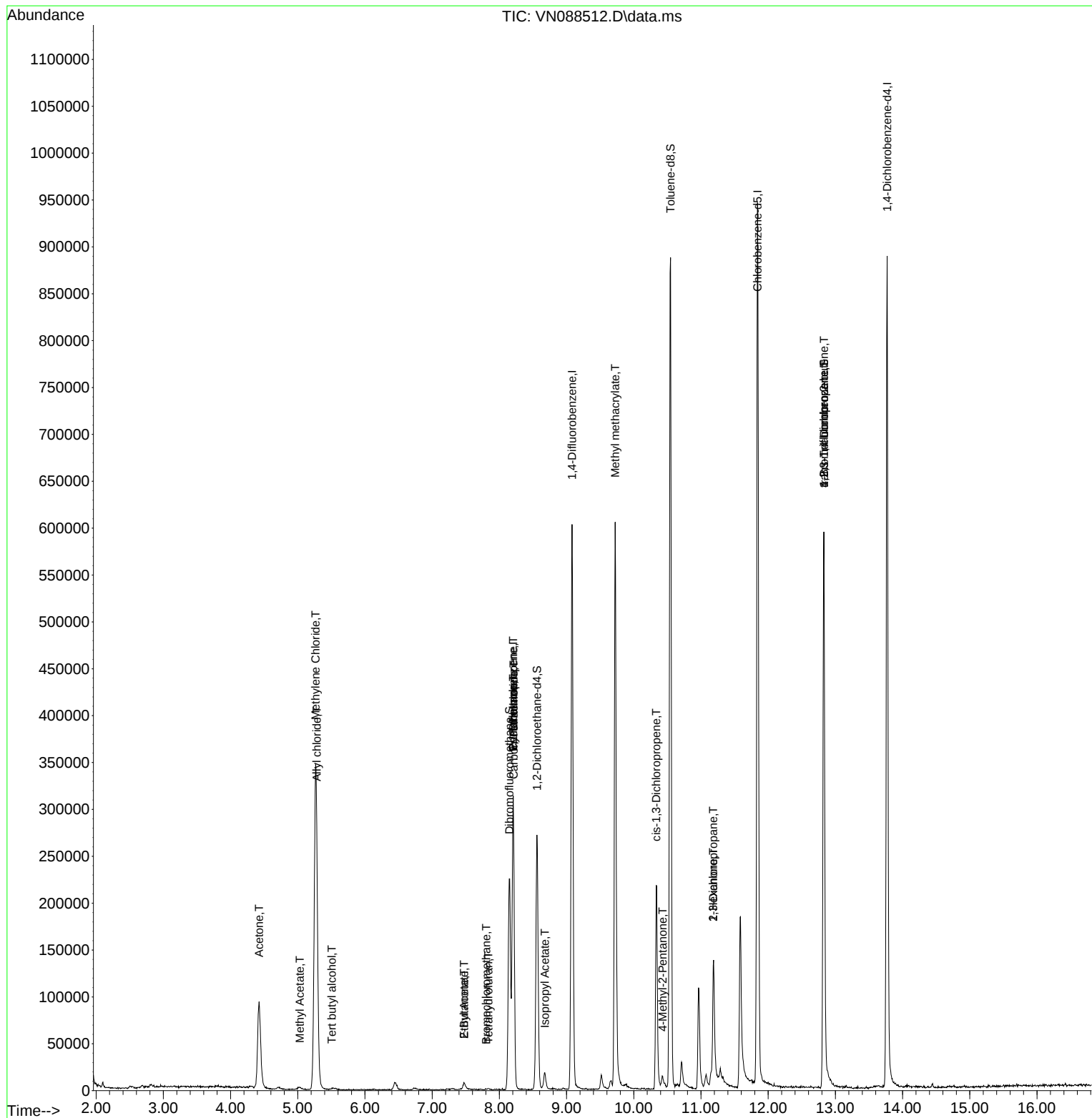
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.206	168	195745	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	471400	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	502812	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	230085	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	233211	63.245	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 126.480%#		
35) Dibromofluoromethane	8.147	113	164837	50.459	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 100.920%		
50) Toluene-d8	10.547	98	588788	48.440	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 96.880%		
62) 4-Bromofluorobenzene	12.829	95	218423	52.372	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 104.740%		
Target Compounds						Qvalue
11) Tert butyl alcohol	5.506	59	1123	1.908	ug/l #	72
14) Allyl chloride	5.283	41	9706	2.193	ug/l #	19
16) Acetone	4.424	43	193193	144.869	ug/l	98
18) Methyl Acetate	5.030	43	7196	1.813	ug/l #	66
20) Methylene Chloride	5.265	84	267376	93.711	ug/l	97
25) 2-Butanone	7.477	43	13897	6.482	ug/l	99
28) Bromochloromethane	7.806	49	609	0.228	ug/l #	54
29) Tetrahydrofuran	7.835	42	818	0.532	ug/l #	47
31) Cyclohexane	8.206	56	6972	1.438	ug/l #	35
36) 1,1-Dichloropropene	8.206	75	22915	4.545	ug/l #	51
37) Ethyl Acetate	7.477	43	13897	2.096	ug/l #	72
38) Carbon Tetrachloride	8.212	117	24587	4.899	ug/l #	14
43) Isopropyl Acetate	8.677	43	22778	2.249	ug/l #	89
48) Methyl methacrylate	9.724	41	64320	13.918	ug/l #	49
51) 4-Methyl-2-Pentanone	10.429	43	14376	2.408	ug/l #	84
54) cis-1,3-Dichloropropene	10.335	75	36454	6.117	ug/l #	67
57) 1,3-Dichloropropane	11.182	76	1539	0.258	ug/l #	42
59) 2-Hexanone	11.182	43	22801	6.063	ug/l	64
76) 1,2,3-Trichloropropane	12.829	75	127828	23.720	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	127828	67.293	ug/l #	1

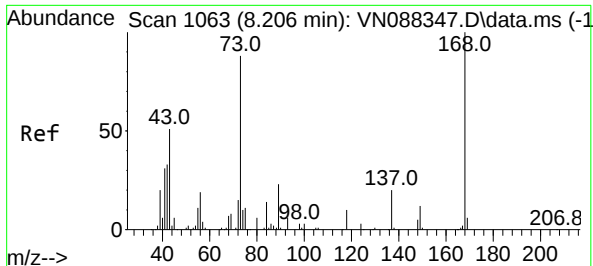
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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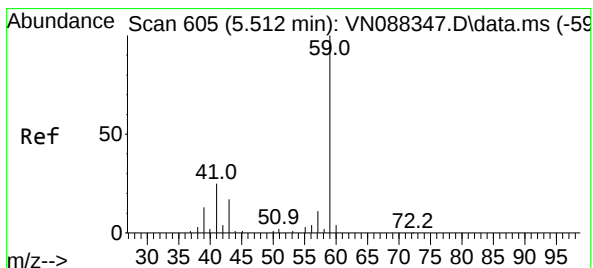
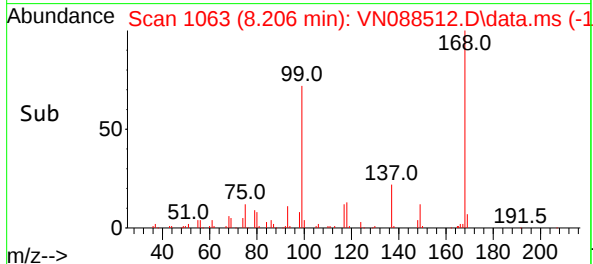
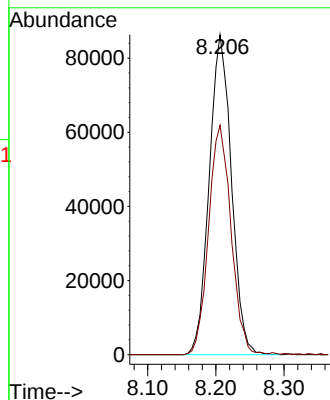
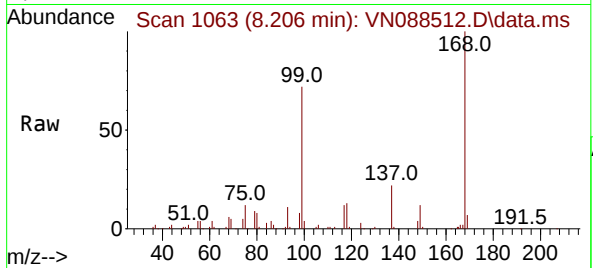




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VN088512.D
Acq: 10 Dec 2025 19:18

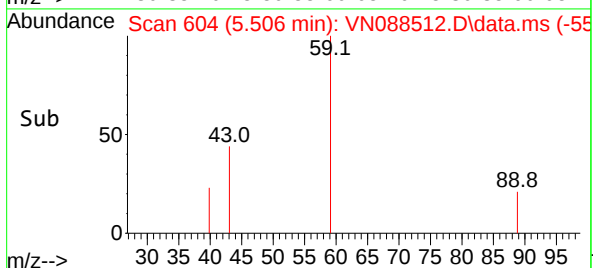
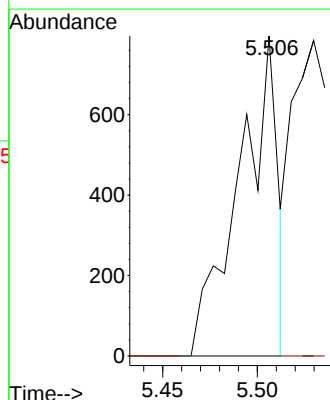
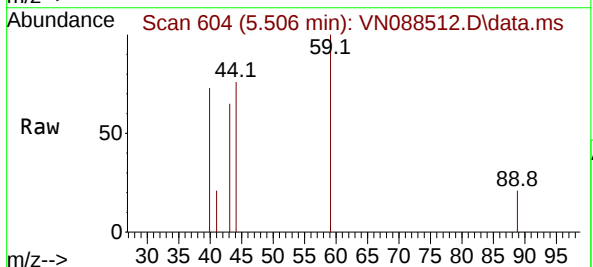
Instrument :
MSVOA_N
ClientSampleId :

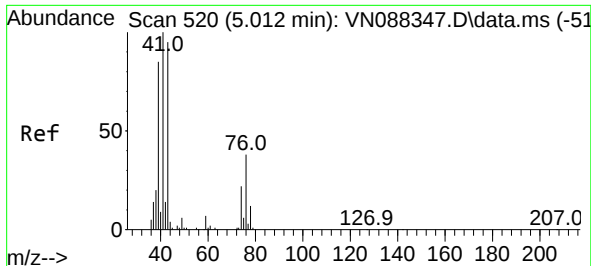
Tgt Ion:168 Resp: 195745
Ion Ratio Lower Upper
168 100
99 71.6 57.1 85.7



#11
Tert butyl alcohol
Concen: 1.908 ug/l
RT: 5.506 min Scan# 604
Delta R.T. -0.006 min
Lab File: VN088512.D
Acq: 10 Dec 2025 19:18

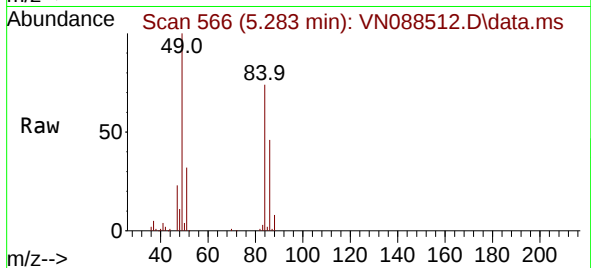
Tgt Ion: 59 Resp: 1123
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#



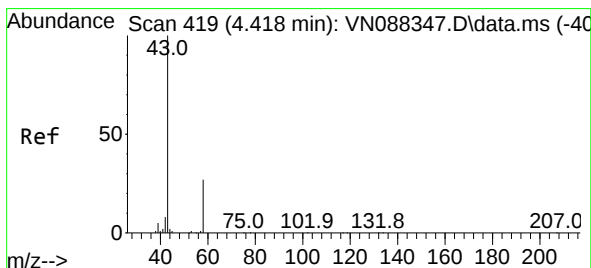
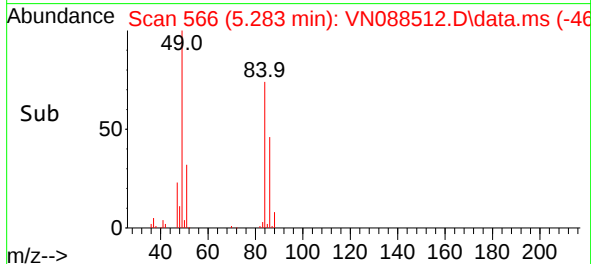
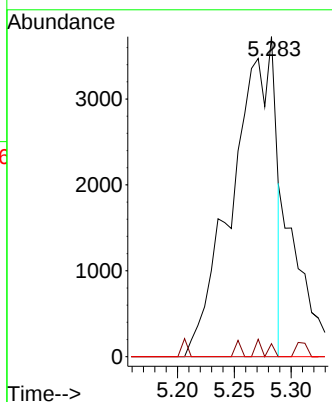


#14
Allyl chloride
Concen: 2.193 ug/l
RT: 5.283 min Scan# 51
Delta R.T. 0.271 min
Lab File: VN088512.D
Acq: 10 Dec 2025 19:18

Instrument :
MSVOA_N
ClientSampleId :

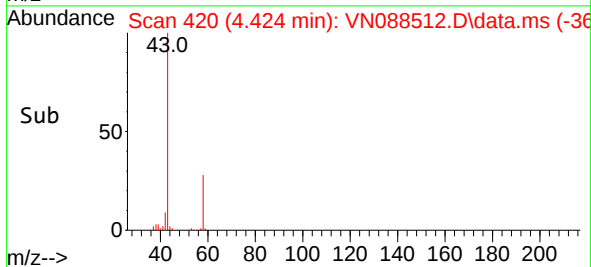
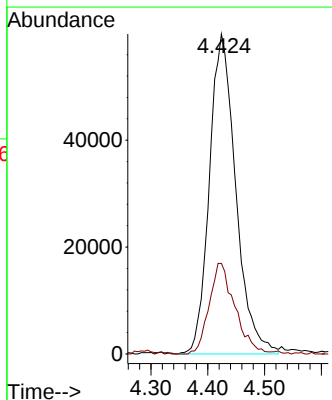
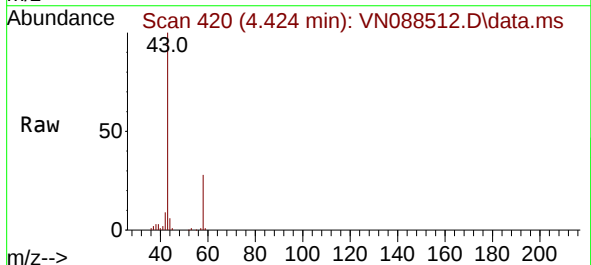


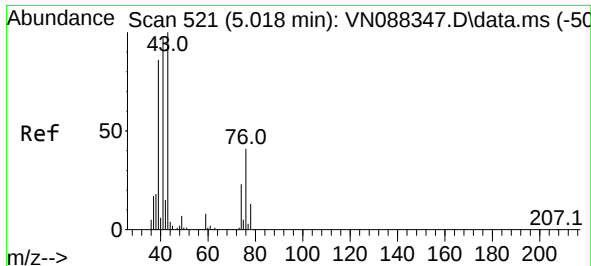
Tgt Ion: 41 Resp: 9706
Ion Ratio Lower Upper
41 100
39 1.3 64.7 97.1#
76 0.0 29.1 43.7#



#16
Acetone
Concen: 144.869 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.006 min
Lab File: VN088512.D
Acq: 10 Dec 2025 19:18

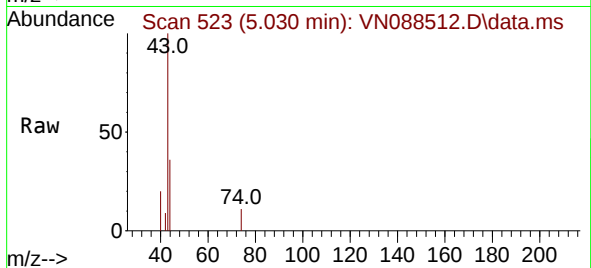
Tgt Ion: 43 Resp: 193193
Ion Ratio Lower Upper
43 100
58 28.3 21.7 32.5



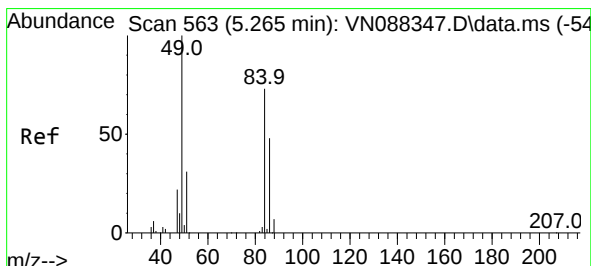
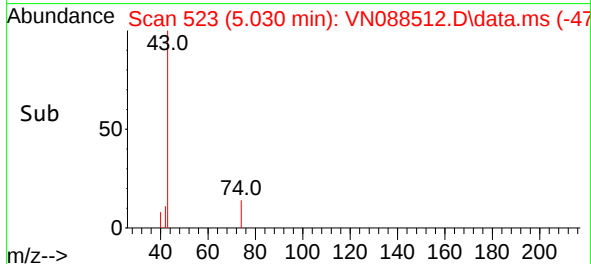
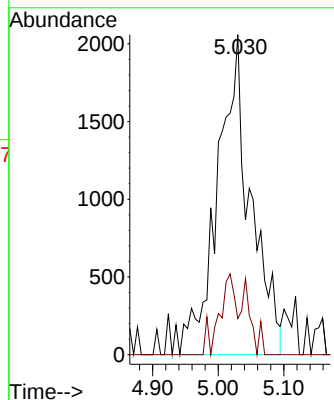


#18
Methyl Acetate
Concen: 1.813 ug/l
RT: 5.030 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN088512.D
Acq: 10 Dec 2025 19:18

Instrument :
MSVOA_N
ClientSampleId :

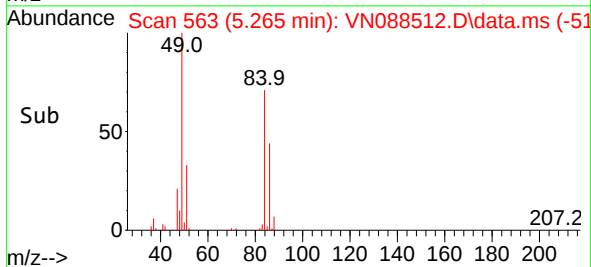
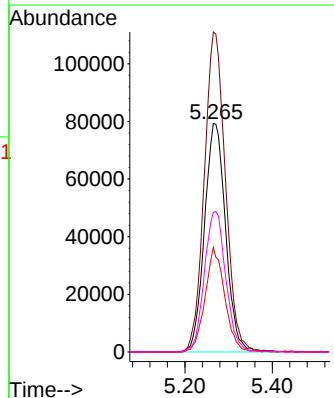
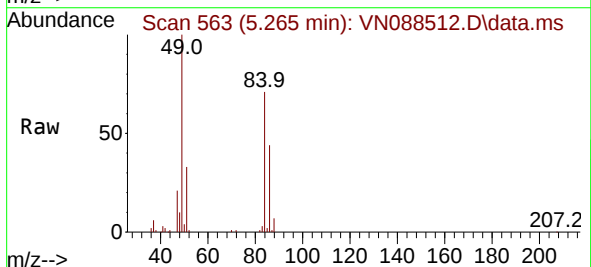


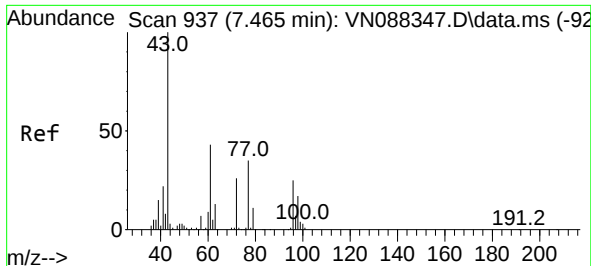
Tgt Ion: 43 Resp: 7196
Ion Ratio Lower Upper
43 100
74 5.9 17.9 26.9#



#20
Methylene Chloride
Concen: 93.711 ug/l
RT: 5.265 min Scan# 563
Delta R.T. 0.000 min
Lab File: VN088512.D
Acq: 10 Dec 2025 19:18

Tgt Ion: 84 Resp: 267376
Ion Ratio Lower Upper
84 100
49 139.9 110.2 165.2
51 45.7 34.1 51.1
86 61.2 52.6 78.8

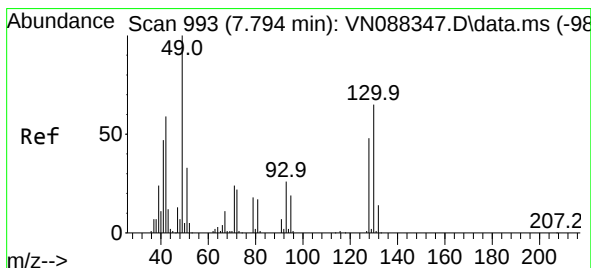
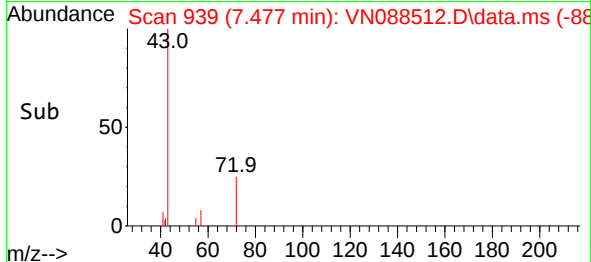
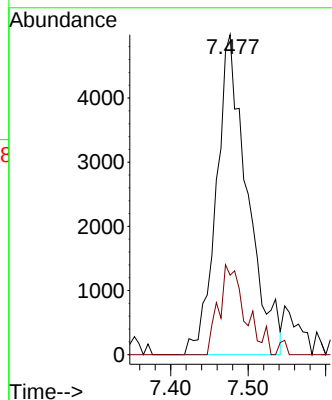
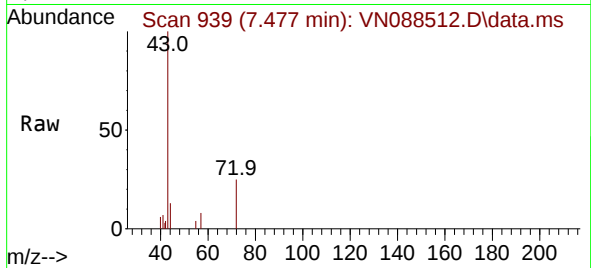




#25
2-Butanone
Concen: 6.482 ug/l
RT: 7.477 min Scan# 911
Delta R.T. 0.012 min
Lab File: VN088512.D
Acq: 10 Dec 2025 19:18

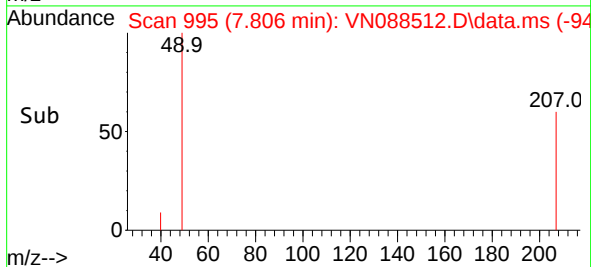
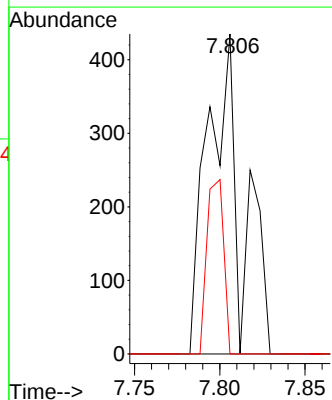
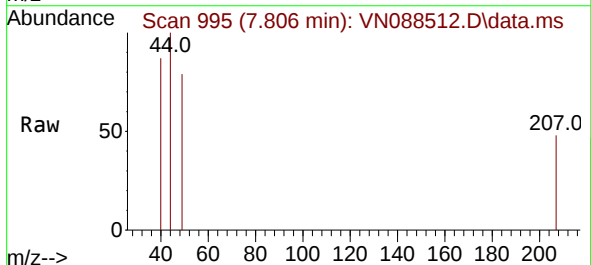
Instrument :
MSVOA_N
ClientSampleId :

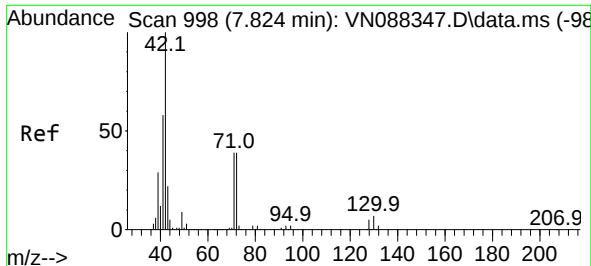
Tgt Ion: 43 Resp: 13897
Ion Ratio Lower Upper
43 100
72 24.9 20.5 30.7



#28
Bromochloromethane
Concen: 0.228 ug/l
RT: 7.806 min Scan# 995
Delta R.T. 0.012 min
Lab File: VN088512.D
Acq: 10 Dec 2025 19:18

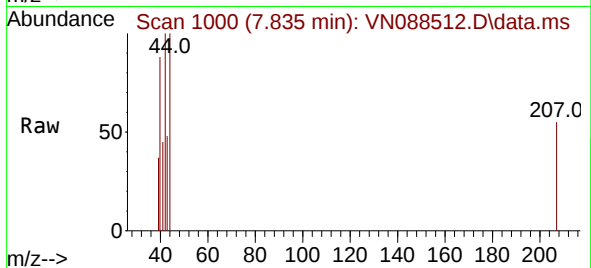
Tgt Ion: 49 Resp: 609
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.6
130 26.8 51.1 76.7#



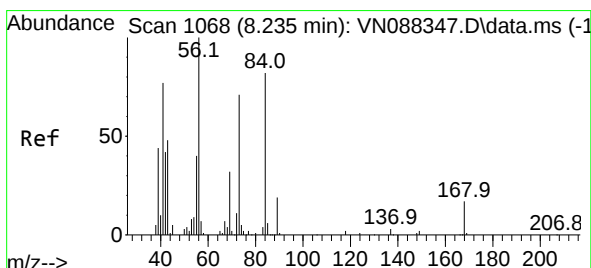
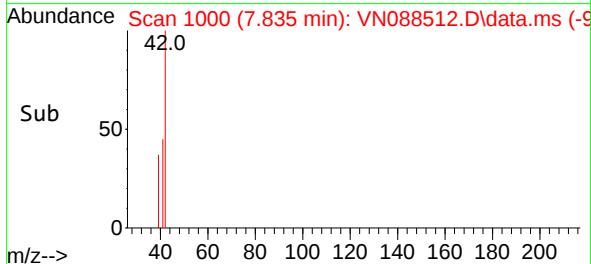
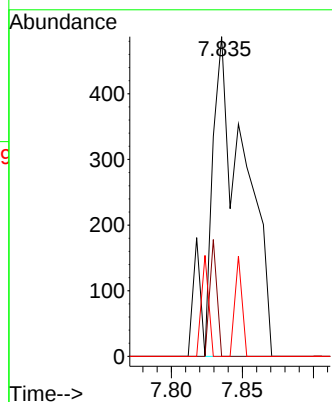


#29
Tetrahydrofuran
Concen: 0.532 ug/l
RT: 7.835 min Scan# 1000
Delta R.T. 0.012 min
Lab File: VN088512.D
Acq: 10 Dec 2025 19:18

Instrument :
MSVOA_N
ClientSampleId :

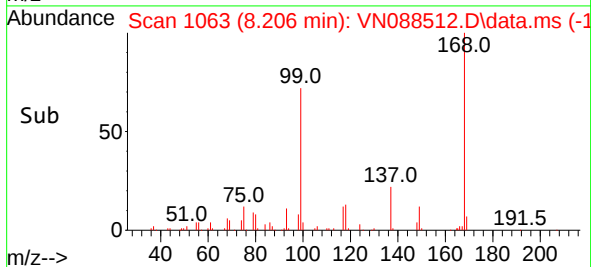
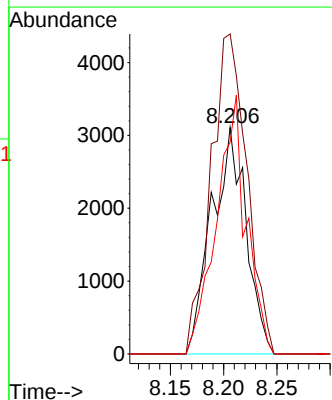
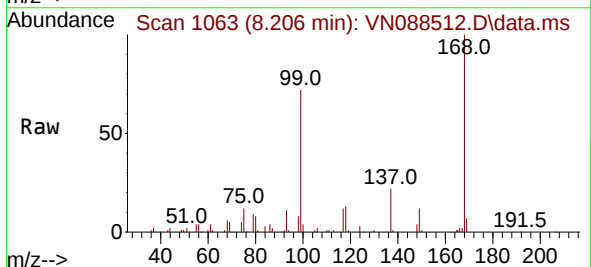


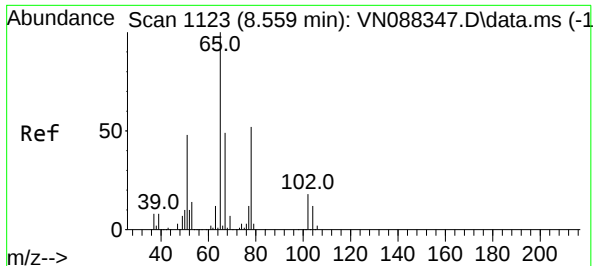
Tgt Ion: 42 Resp: 818
Ion Ratio Lower Upper
42 100
72 7.7 32.2 48.4#
71 6.6 31.1 46.7#



#31
Cyclohexane
Concen: 1.438 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.029 min
Lab File: VN088512.D
Acq: 10 Dec 2025 19:18

Tgt Ion: 56 Resp: 6972
Ion Ratio Lower Upper
56 100
69 141.3 25.3 37.9#
84 93.5 65.4 98.2





#33

1,2-Dichloroethane-d4

Concen: 63.245 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. 0.000 min

Lab File: VN088512.D

Acq: 10 Dec 2025 19:18

Instrument :

MSVOA_N

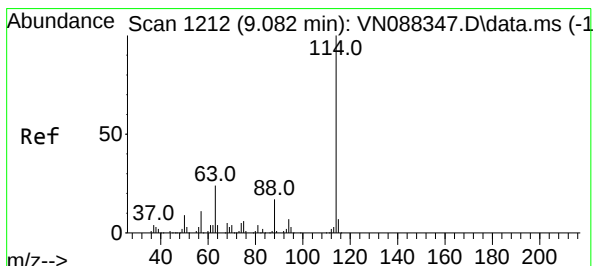
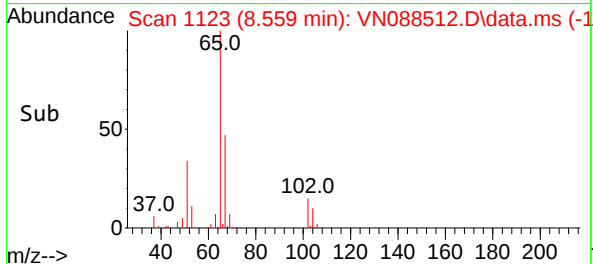
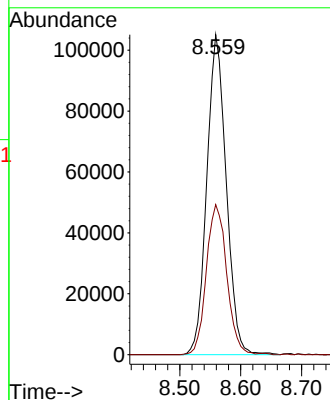
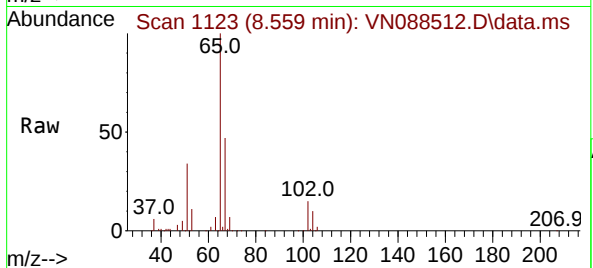
ClientSampleId :

Tgt Ion: 65 Resp: 233211

Ion Ratio Lower Upper

65 100

67 49.2 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: VN088512.D

Acq: 10 Dec 2025 19:18

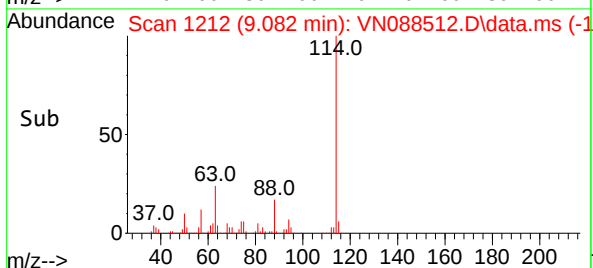
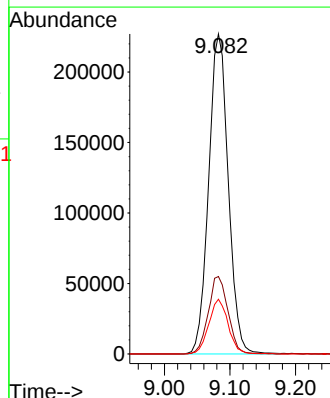
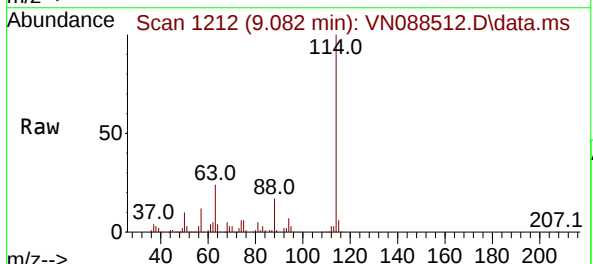
Tgt Ion: 114 Resp: 471400

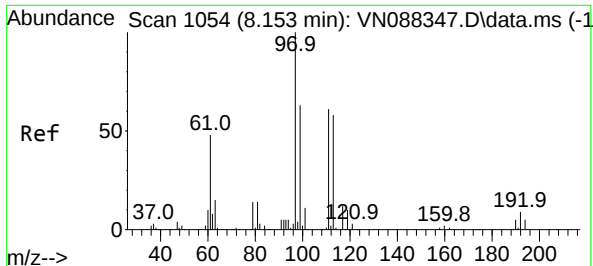
Ion Ratio Lower Upper

114 100

63 24.2 0.0 49.0

88 17.1 0.0 34.0





#35

Dibromofluoromethane

Concen: 50.459 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN088512.D

Acq: 10 Dec 2025 19:18

Instrument :

MSVOA_N

ClientSampleId :

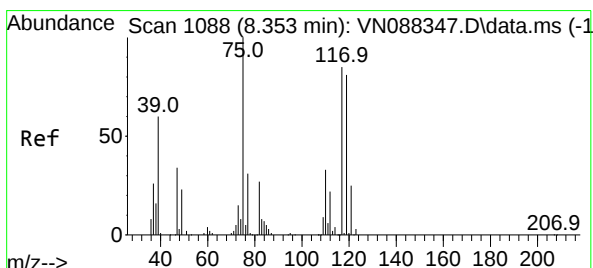
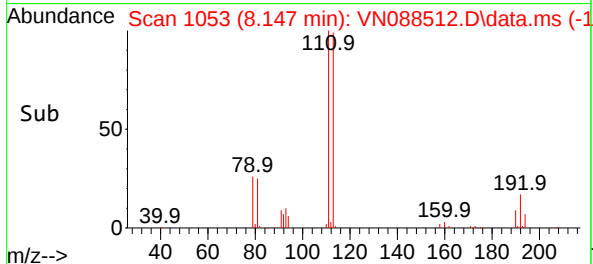
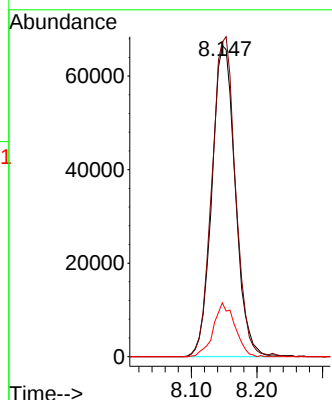
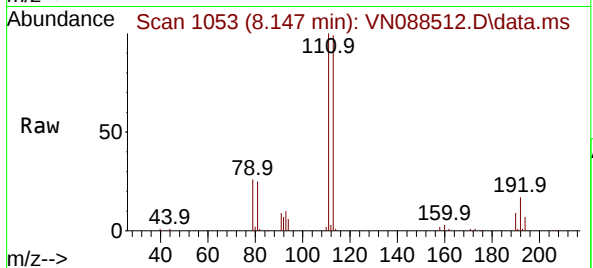
Tgt Ion:113 Resp: 164837

Ion Ratio Lower Upper

113 100

111 103.4 82.5 123.7

192 16.0 12.8 19.2



#36

1,1-Dichloropropene

Concen: 4.545 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.147 min

Lab File: VN088512.D

Acq: 10 Dec 2025 19:18

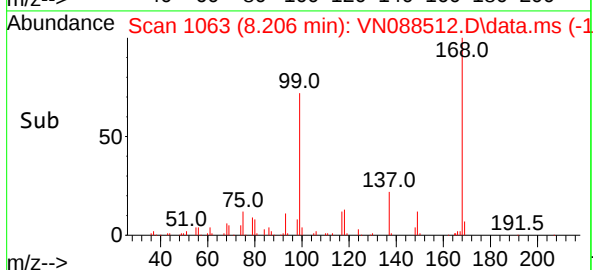
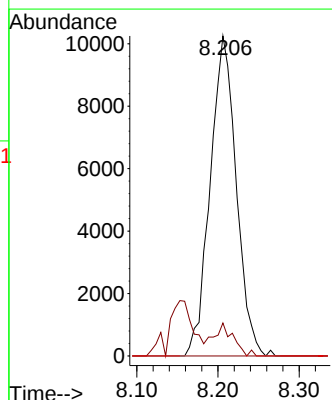
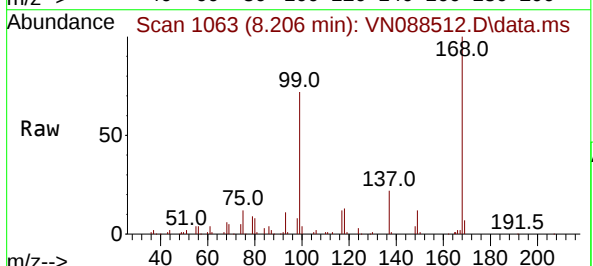
Tgt Ion: 75 Resp: 22915

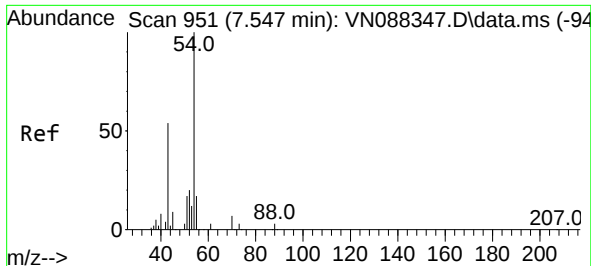
Ion Ratio Lower Upper

75 100

110 7.9 15.8 47.4#

77 0.0 24.2 36.2#





#37

Ethyl Acetate

Concen: 2.096 ug/l

RT: 7.477 min Scan# 91

Delta R.T. -0.071 min

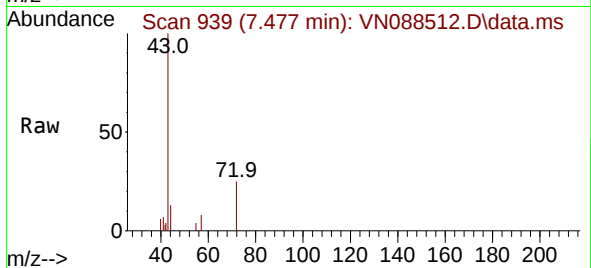
Lab File: VN088512.D

Acq: 10 Dec 2025 19:18

Instrument :

MSVOA_N

ClientSampleId :



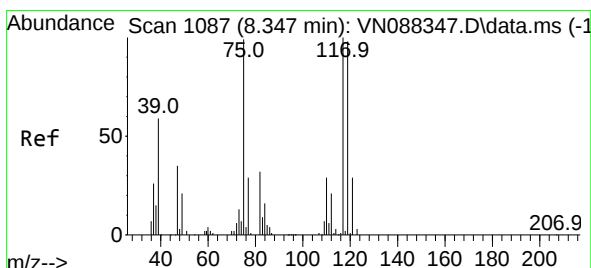
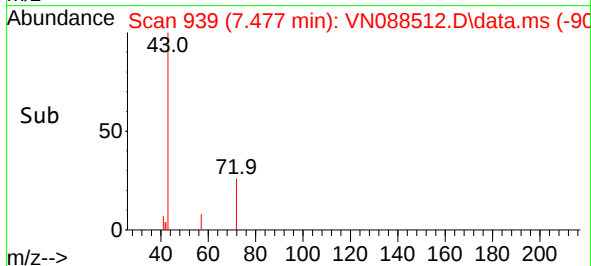
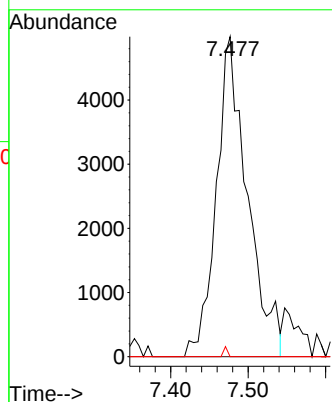
Tgt Ion: 43 Resp: 13897

Ion Ratio Lower Upper

43 100

61 0.0 9.5 14.3#

70 0.4 7.1 10.7#



#38

Carbon Tetrachloride

Concen: 4.899 ug/l

RT: 8.212 min Scan# 1064

Delta R.T. -0.135 min

Lab File: VN088512.D

Acq: 10 Dec 2025 19:18

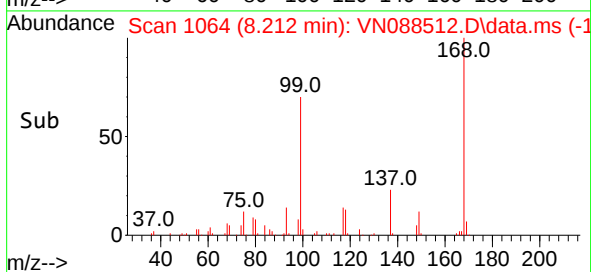
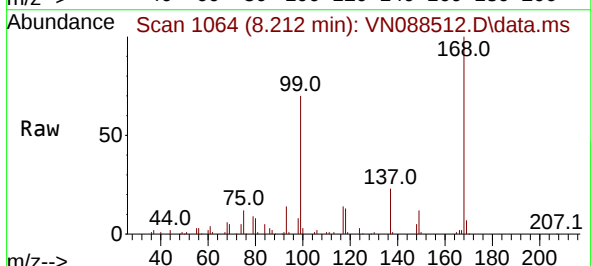
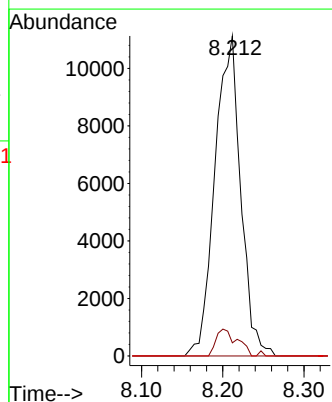
Tgt Ion: 117 Resp: 24587

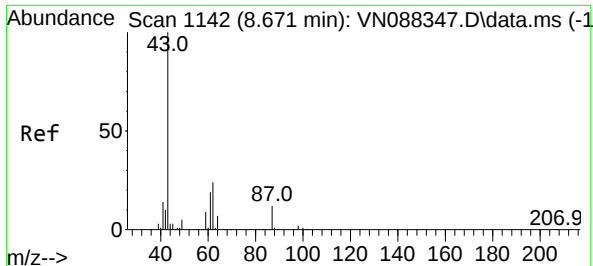
Ion Ratio Lower Upper

117 100

119 4.1 78.2 117.4#

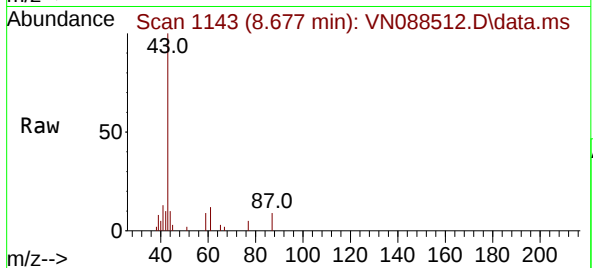
121 0.0 23.4 35.2#



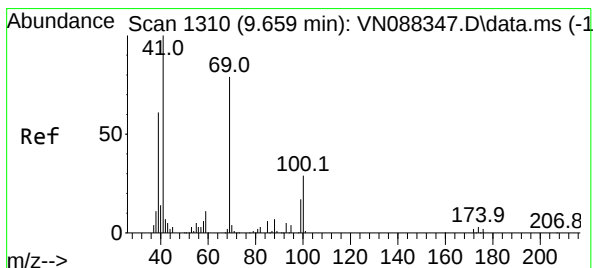
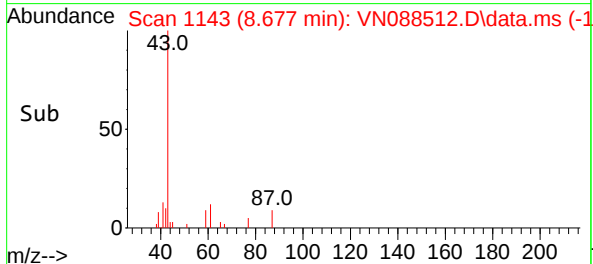
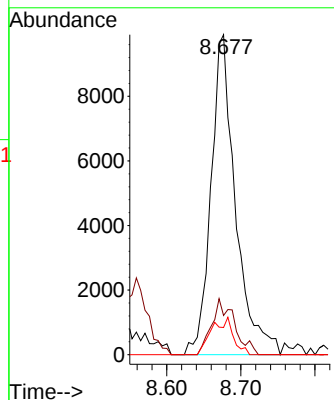


#43
Isopropyl Acetate
Concen: 2.249 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. 0.006 min
Lab File: VN088512.D
Acq: 10 Dec 2025 19:18

Instrument :
MSVOA_N
ClientSampleId :

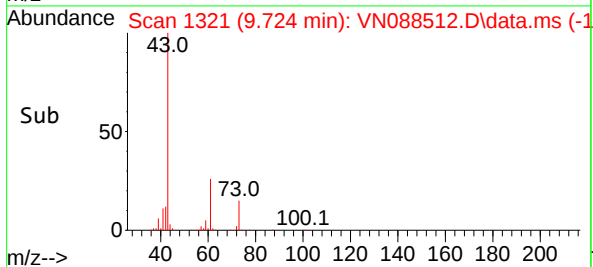
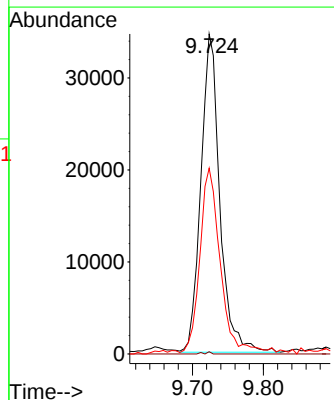
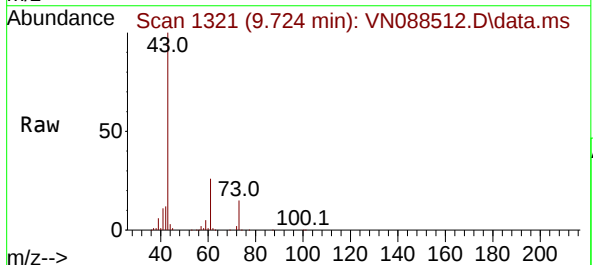


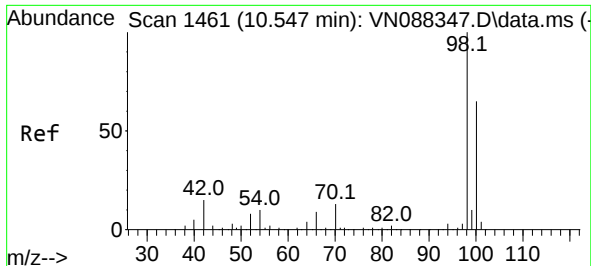
Tgt Ion: 43 Resp: 22778
Ion Ratio Lower Upper
43 100
61 16.3 18.7 28.1#
87 10.3 9.1 13.7



#48
Methyl methacrylate
Concen: 13.918 ug/l
RT: 9.724 min Scan# 1321
Delta R.T. 0.065 min
Lab File: VN088512.D
Acq: 10 Dec 2025 19:18

Tgt Ion: 41 Resp: 64320
Ion Ratio Lower Upper
41 100
69 0.2 62.4 93.6#
39 61.8 52.6 79.0

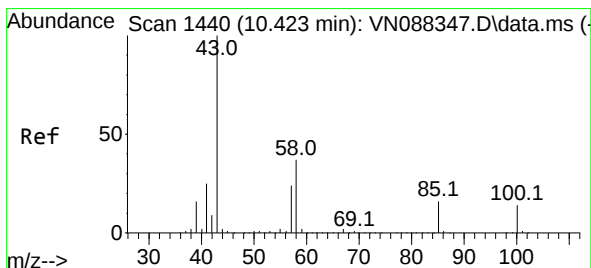
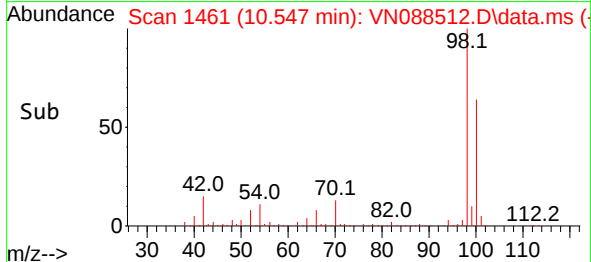
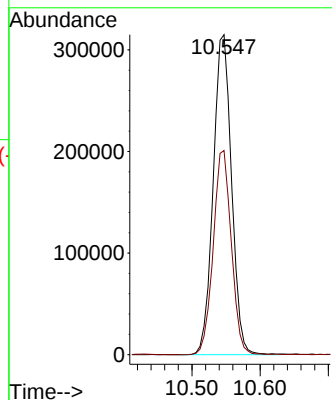
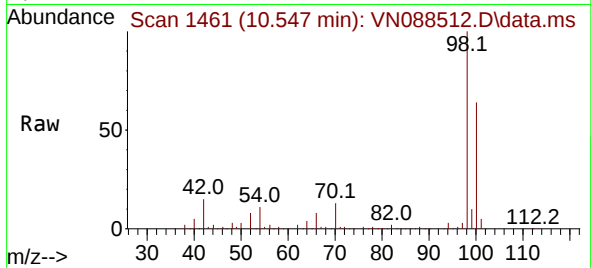




#50
Toluene-d8
Concen: 48.440 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. 0.000 min
Lab File: VN088512.D
Acq: 10 Dec 2025 19:18

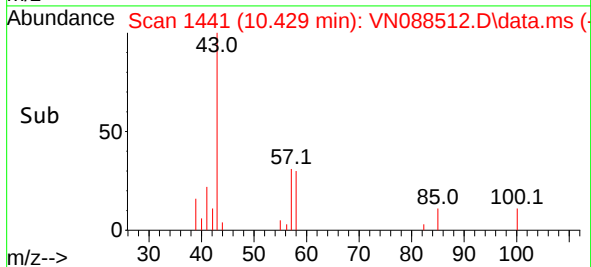
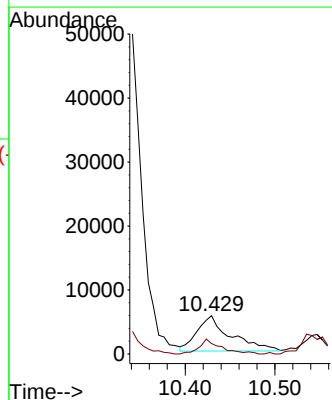
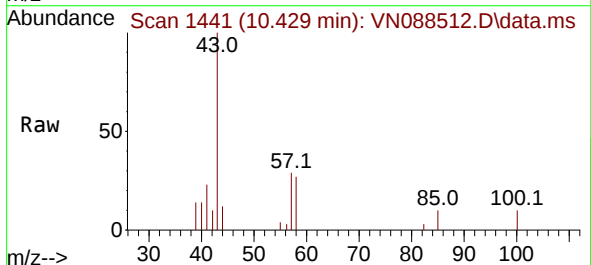
Instrument :
MSVOA_N
ClientSampleId :

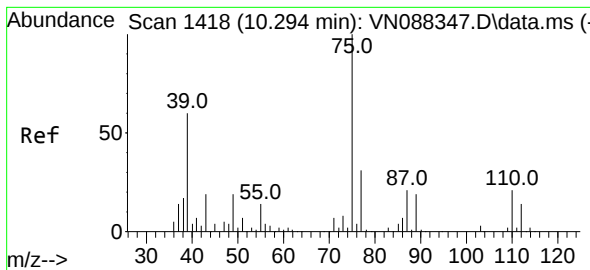
Tgt Ion: 98 Resp: 588788
Ion Ratio Lower Upper
98 100
100 63.0 52.2 78.2



#51
4-Methyl-2-Pentanone
Concen: 2.408 ug/l
RT: 10.429 min Scan# 1441
Delta R.T. 0.006 min
Lab File: VN088512.D
Acq: 10 Dec 2025 19:18

Tgt Ion: 43 Resp: 14376
Ion Ratio Lower Upper
43 100
58 27.0 29.1 43.7#

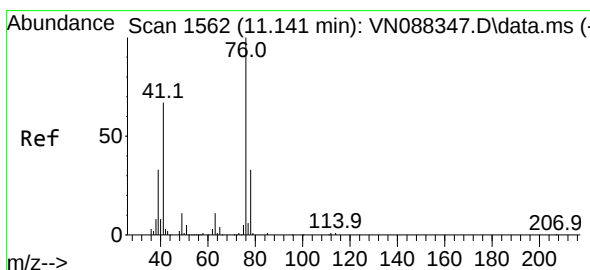
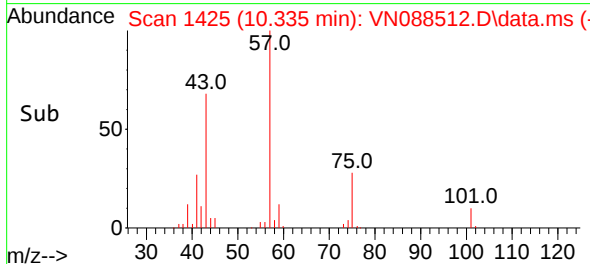
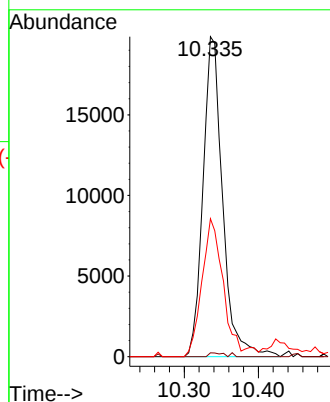
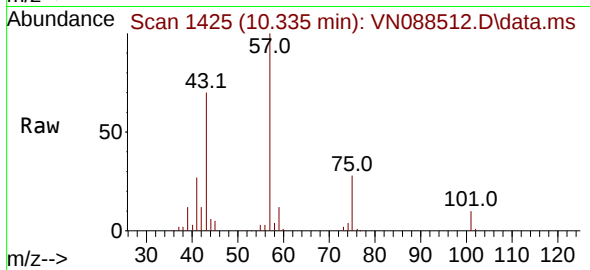




#54
cis-1,3-Dichloropropene
Concen: 6.117 ug/l
RT: 10.335 min Scan# 1418
Delta R.T. 0.041 min
Lab File: VN088512.D
Acq: 10 Dec 2025 19:18

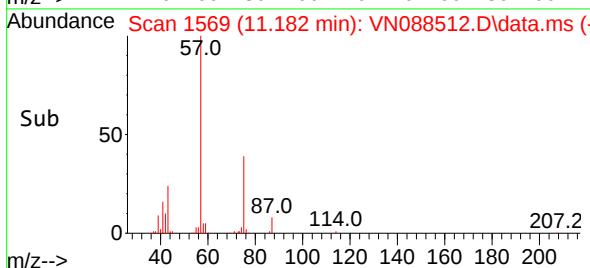
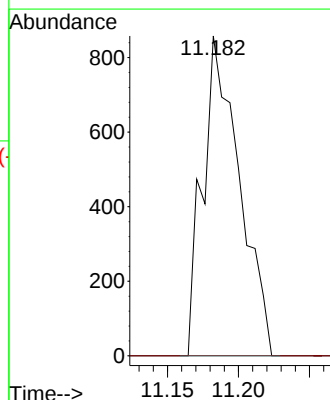
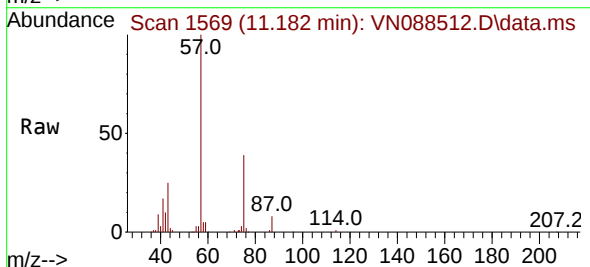
Instrument :
MSVOA_N
ClientSampleId :

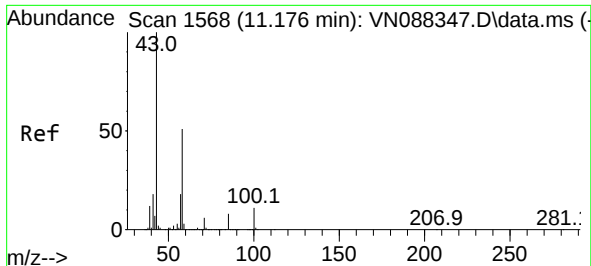
Tgt Ion: 75 Resp: 36454
Ion Ratio Lower Upper
75 100
77 1.2 24.5 36.7#
39 43.1 48.3 72.5#



#57
1,3-Dichloropropane
Concen: 0.258 ug/l
RT: 11.182 min Scan# 1569
Delta R.T. 0.041 min
Lab File: VN088512.D
Acq: 10 Dec 2025 19:18

Tgt Ion: 76 Resp: 1539
Ion Ratio Lower Upper
76 100
78 0.0 26.2 39.4#

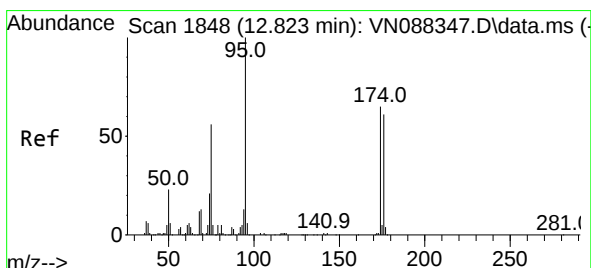
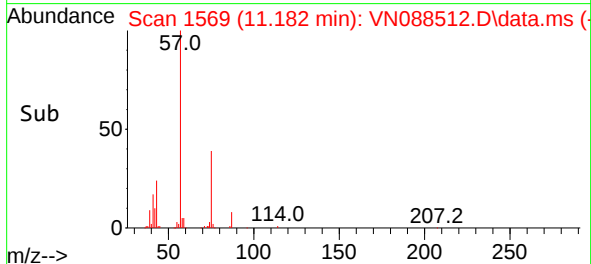
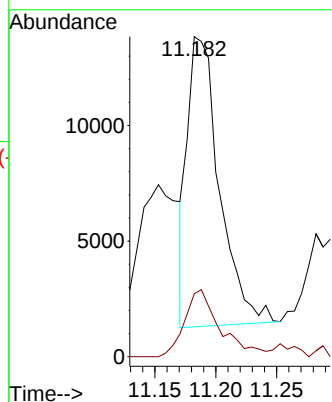
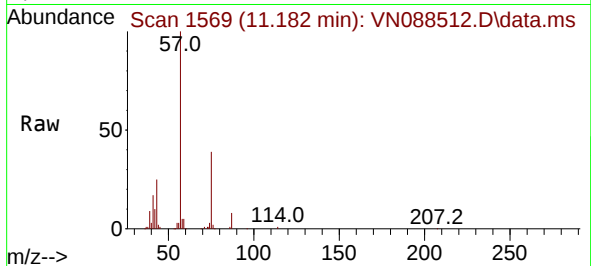




#59
2-Hexanone
Concen: 6.063 ug/l
RT: 11.182 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN088512.D
Acq: 10 Dec 2025 19:18

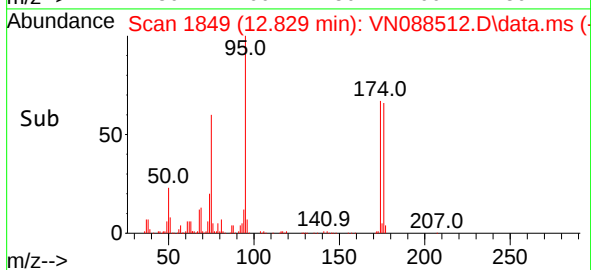
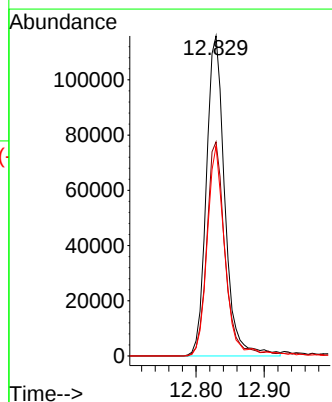
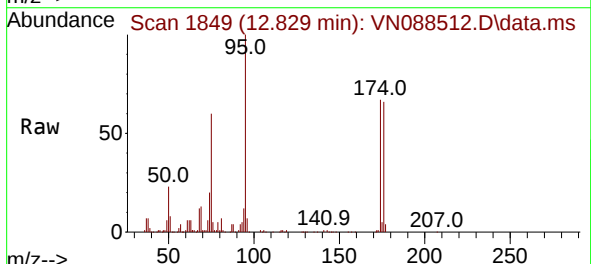
Instrument :
MSVOA_N
ClientSampleId :

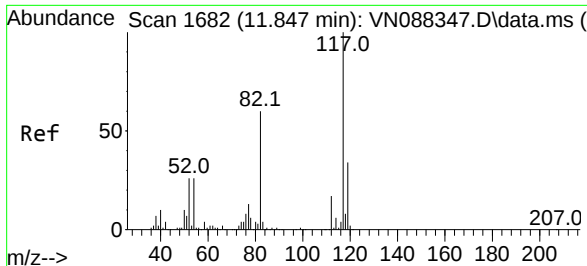
Tgt Ion: 43 Resp: 22801
Ion Ratio Lower Upper
43 100
58 25.8 25.3 75.9



#62
4-Bromofluorobenzene
Concen: 52.372 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088512.D
Acq: 10 Dec 2025 19:18

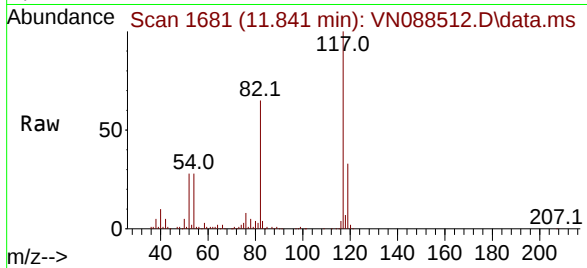
Tgt Ion: 95 Resp: 218423
Ion Ratio Lower Upper
95 100
174 65.5 0.0 139.0
176 64.0 0.0 132.4



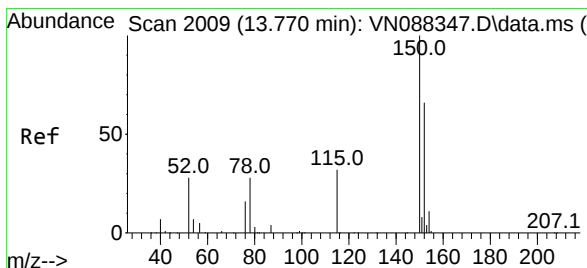
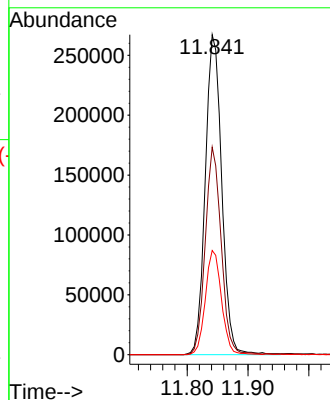
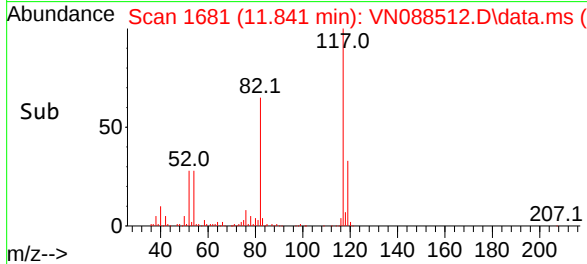


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN088512.D
Acq: 10 Dec 2025 19:18

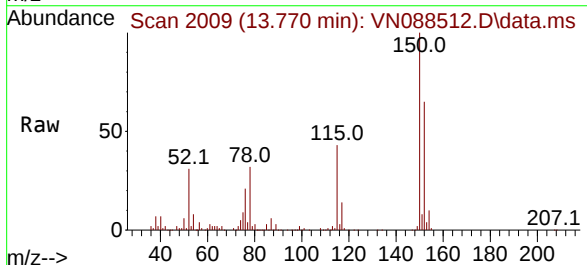
Instrument :
MSVOA_N
ClientSampleId :



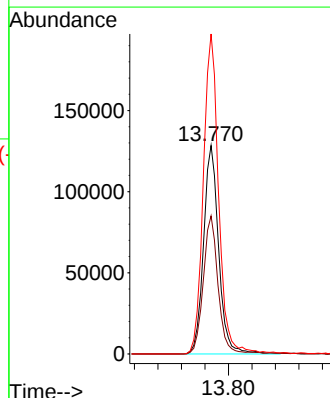
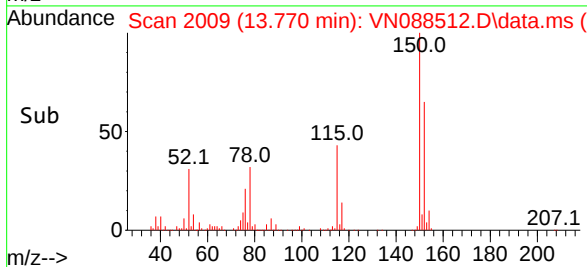
Tgt Ion:117 Resp: 502812
Ion Ratio Lower Upper
117 100
82 64.8 47.8 71.8
119 32.5 26.9 40.3

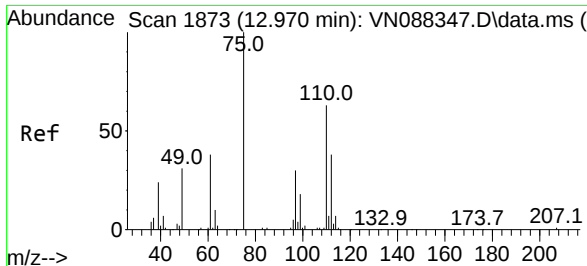


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. 0.000 min
Lab File: VN088512.D
Acq: 10 Dec 2025 19:18



Tgt Ion:152 Resp: 230085
Ion Ratio Lower Upper
152 100
115 64.8 33.0 98.9
150 155.7 0.0 349.0

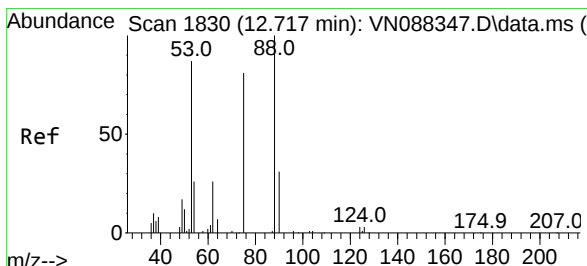
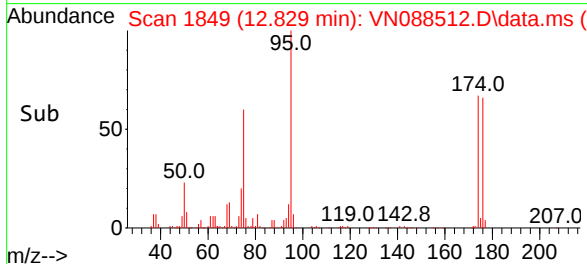
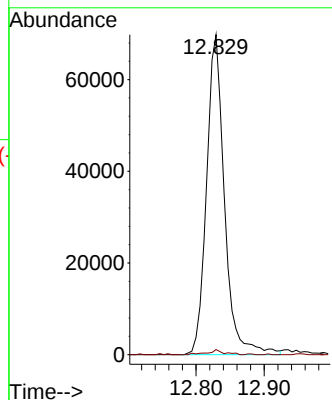
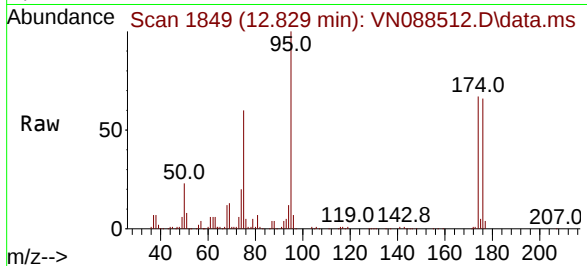




#76
1,2,3-Trichloropropane
Concen: 23.720 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.141 min
Lab File: VN088512.D
Acq: 10 Dec 2025 19:18

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion: 75 Resp: 127828
Ion Ratio Lower Upper
75 100
77 1.4 87.2 261.6#



#81
trans-1,4-Dichloro-2-butene
Concen: 67.293 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN088512.D
Acq: 10 Dec 2025 19:18

Tgt Ion: 75 Resp: 127828
Ion Ratio Lower Upper
75 100
53 0.2 92.2 138.4#
89 0.0 0.0 0.0

