

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121025\
 Data File : VN088507.D
 Acq On : 10 Dec 2025 17:34
 Operator : JC\MD
 Sample : Q3826-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 11 02:12:46 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)

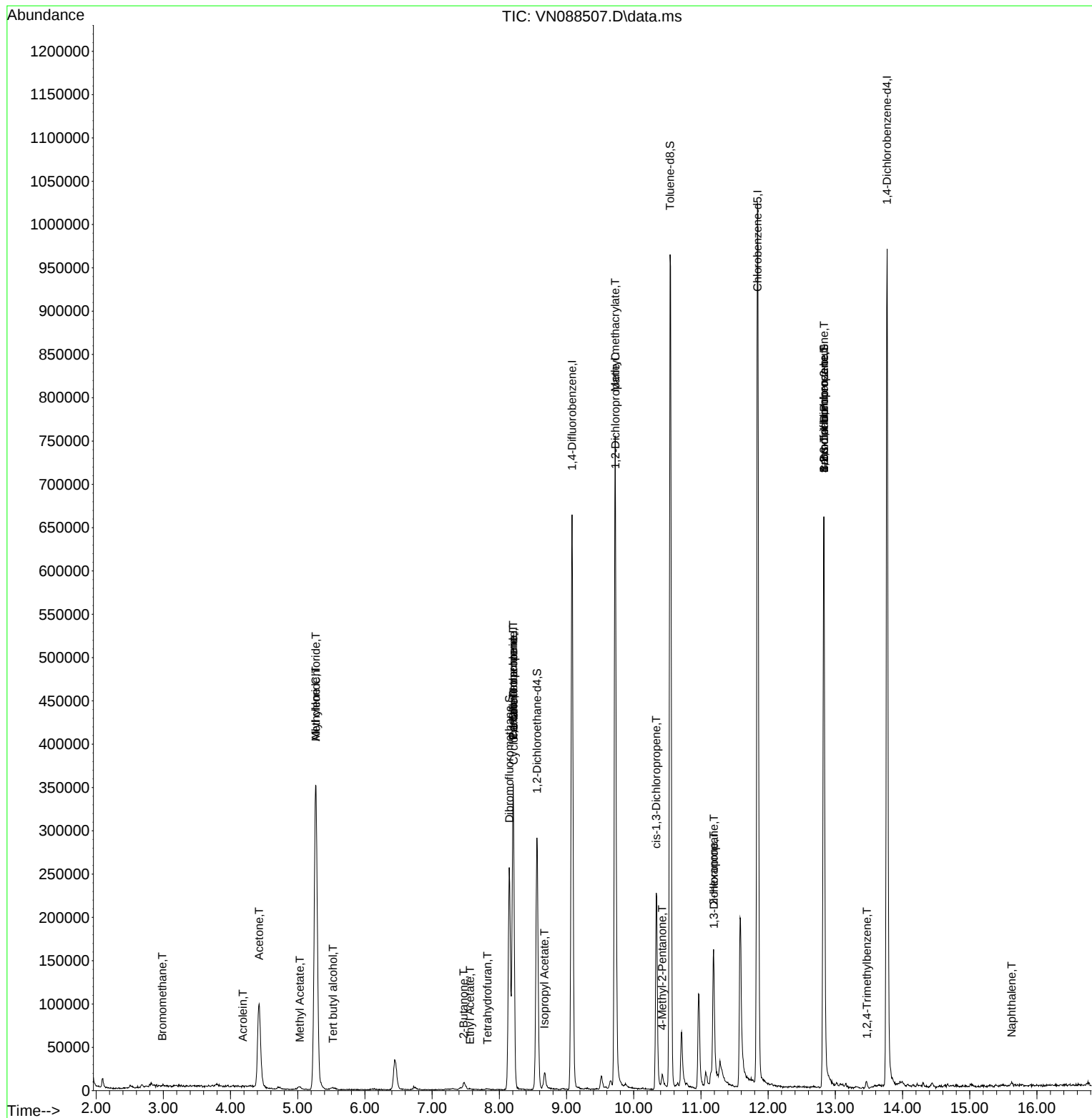
Internal Standards						
1) Pentafluorobenzene	8.206	168	221792	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	518350	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	548520	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.771	152	250354	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	247931	59.340	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 118.680%			
35) Dibromofluoromethane	8.147	113	178460	49.681	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 99.360%			
50) Toluene-d8	10.541	98	631929	47.280	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 94.560%			
62) 4-Bromofluorobenzene	12.829	95	244881	53.398	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 106.800%			
Target Compounds					Qvalue	
5) Bromomethane	2.983	94	502	0.287	ug/l #	4
11) Tert butyl alcohol	5.524	59	3530	5.292	ug/l #	81
13) Acrolein	4.183	56	156	0.244	ug/l #	68
14) Allyl chloride	5.271	41	9999	1.994	ug/l #	18
16) Acetone	4.424	43	207851	137.556	ug/l	99
18) Methyl Acetate	5.030	43	7694	1.711	ug/l	94
20) Methylene Chloride	5.271	84	269545	83.377	ug/l	97
25) 2-Butanone	7.471	43	15086	6.210	ug/l	95
29) Tetrahydrofuran	7.824	42	456	0.262	ug/l #	47
31) Cyclohexane	8.212	56	7157	1.302	ug/l #	33
36) 1,1-Dichloropropene	8.206	75	23863	4.304	ug/l #	51
37) Ethyl Acetate	7.565	43	2157	0.296	ug/l #	72
38) Carbon Tetrachloride	8.206	117	26722	4.842	ug/l #	15
43) Isopropyl Acetate	8.671	43	23732	2.131	ug/l #	92
45) 1,2-Dichloropropane	9.730	63	1012	0.243	ug/l #	46
48) Methyl methacrylate	9.724	41	79561	15.657	ug/l #	46
51) 4-Methyl-2-Pentanone	10.424	43	13545	2.063	ug/l #	86
54) cis-1,3-Dichloropropene	10.335	75	38131	5.819	ug/l #	71
57) 1,3-Dichloropropane	11.194	76	2101	0.320	ug/l #	42
59) 2-Hexanone	11.188	43	28076	6.789	ug/l	65
71) Bromoform	12.829	173	1655	0.544	ug/l #	1
76) 1,2,3-Trichloropropane	12.829	75	143479	24.469	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	143479	69.417	ug/l #	1
84) 1,2,4-Trimethylbenzene	13.471	105	4394	0.288	ug/l	89
95) Naphthalene	15.623	128	3638	0.228	ug/l #	90

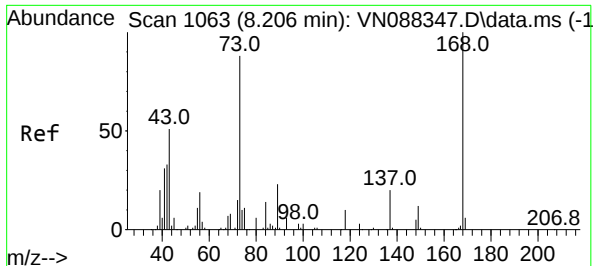
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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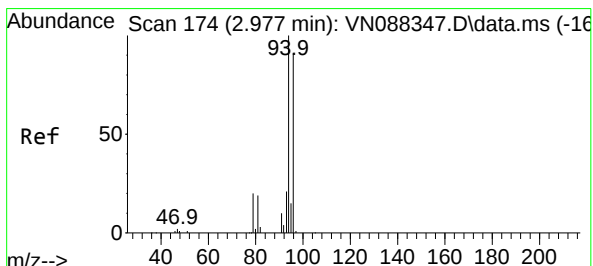
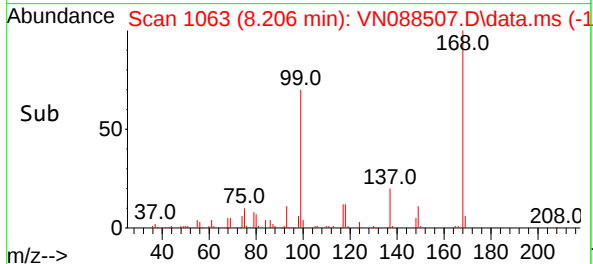
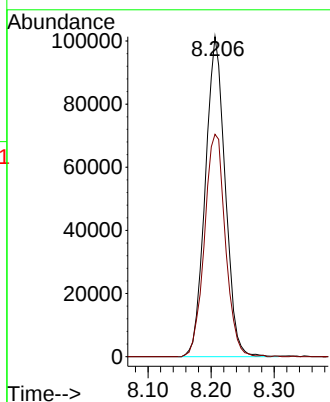
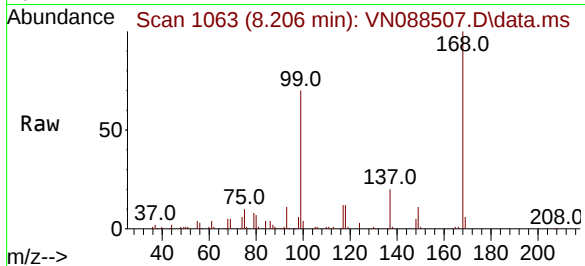




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN088507.D
Acq: 10 Dec 2025 17:34

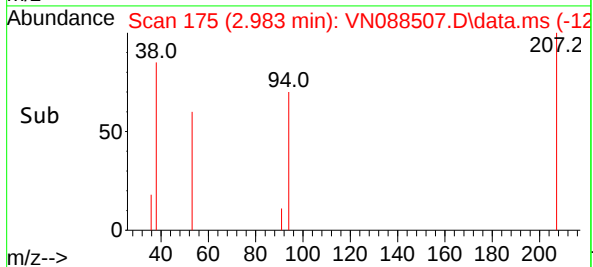
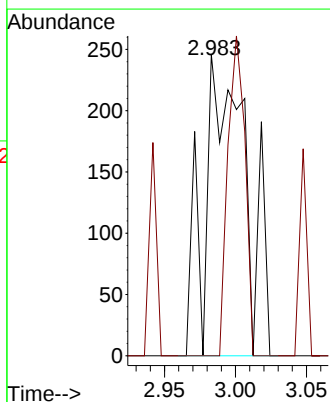
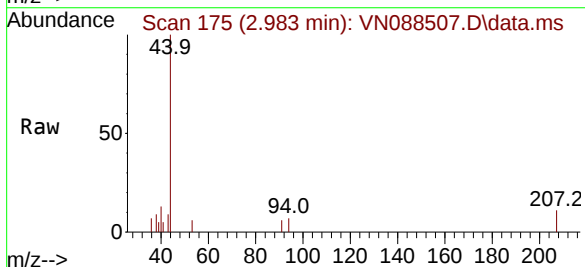
Instrument :
MSVOA_N
ClientSampleId :

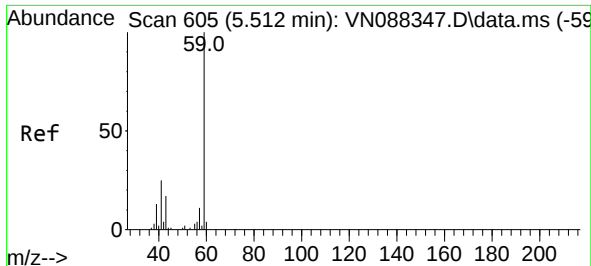
Tgt Ion:168 Resp: 221792
Ion Ratio Lower Upper
168 100
99 69.5 57.1 85.7



#5
Bromomethane
Concen: 0.287 ug/l
RT: 2.983 min Scan# 175
Delta R.T. 0.006 min
Lab File: VN088507.D
Acq: 10 Dec 2025 17:34

Tgt Ion: 94 Resp: 502
Ion Ratio Lower Upper
94 100
96 0.0 73.2 109.8#





#11

Tert butyl alcohol

Concen: 5.292 ug/l

RT: 5.524 min Scan# 605

Delta R.T. 0.012 min

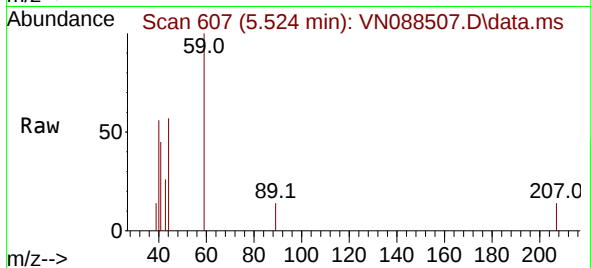
Lab File: VN088507.D

Acq: 10 Dec 2025 17:34

Instrument :

MSVOA_N

ClientSampleId :

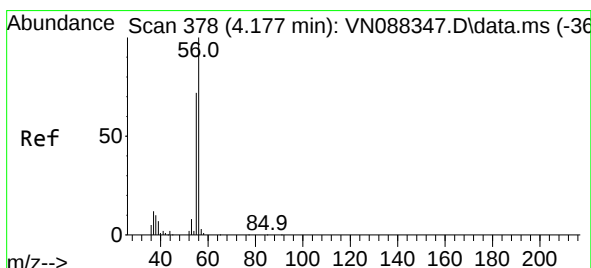
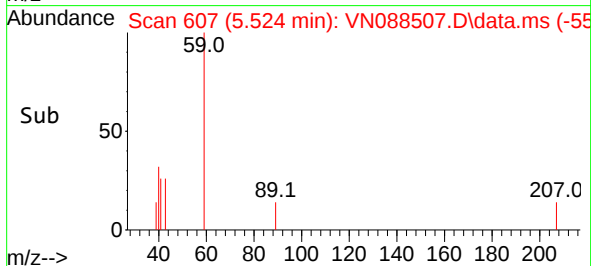
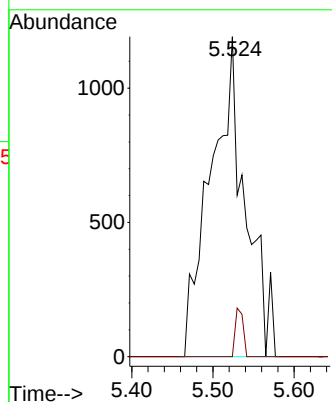


Tgt Ion: 59 Resp: 3530

Ion Ratio Lower Upper

59 100

57 3.4 8.5 12.7#



#13

Acrolein

Concen: 0.244 ug/l

RT: 4.183 min Scan# 379

Delta R.T. 0.006 min

Lab File: VN088507.D

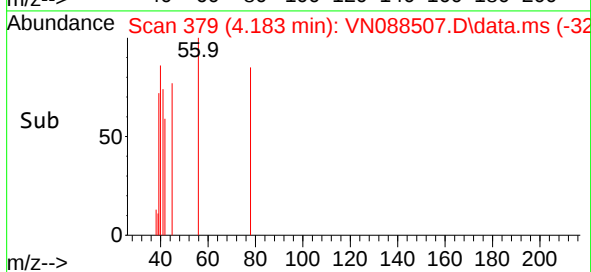
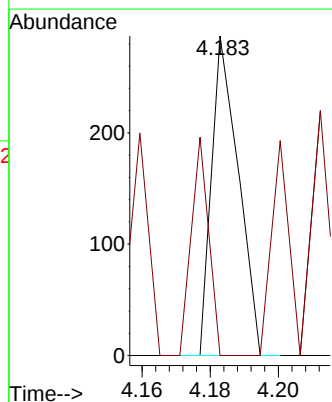
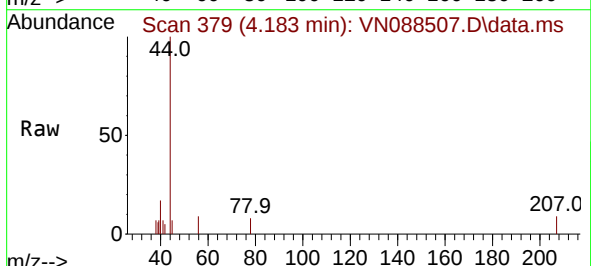
Acq: 10 Dec 2025 17:34

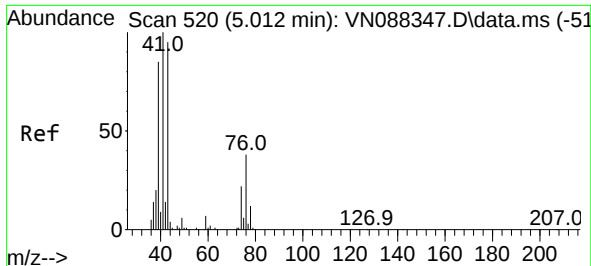
Tgt Ion: 56 Resp: 156

Ion Ratio Lower Upper

56 100

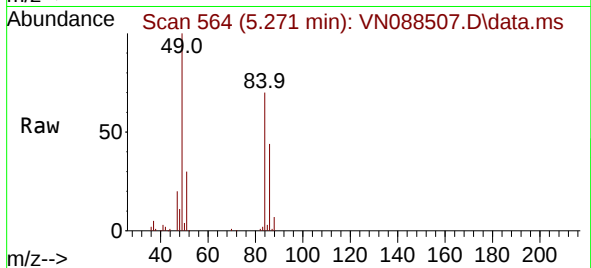
55 44.2 56.3 84.5#



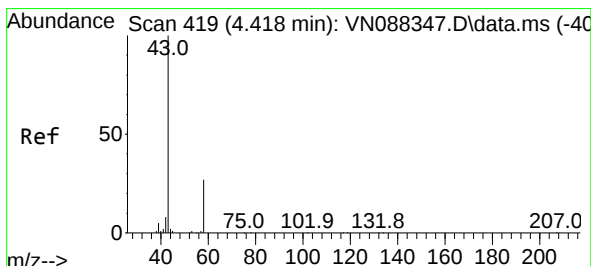
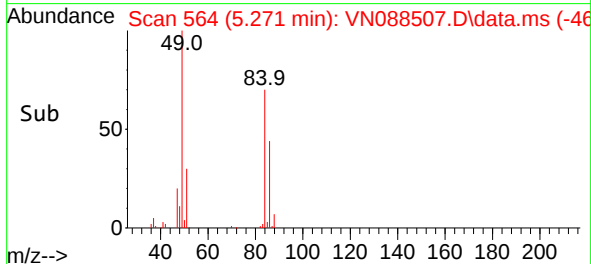
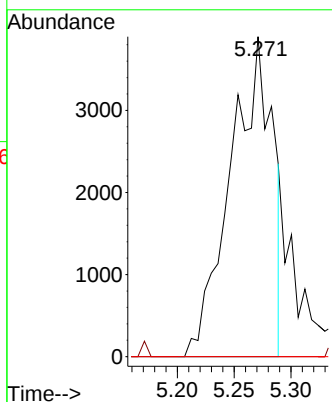


#14
 Allyl chloride
 Concen: 1.994 ug/l
 RT: 5.271 min Scan# 50
 Delta R.T. 0.259 min
 Lab File: VN088507.D
 Acq: 10 Dec 2025 17:34

Instrument :
 MSVOA_N
 ClientSampleId :

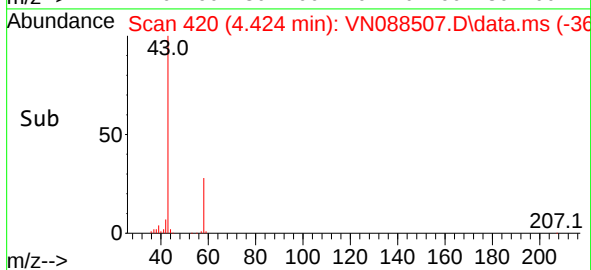
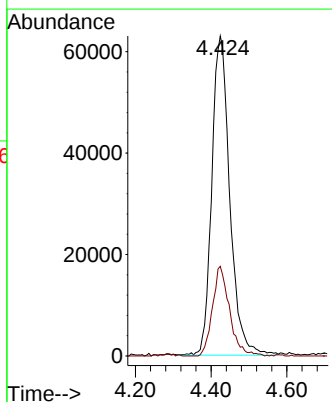
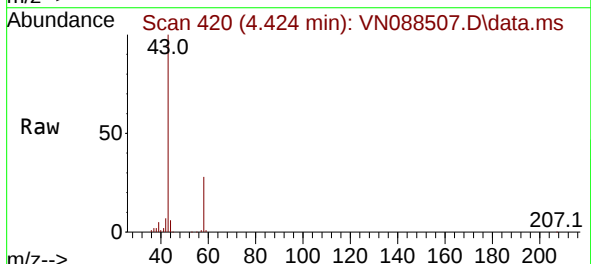


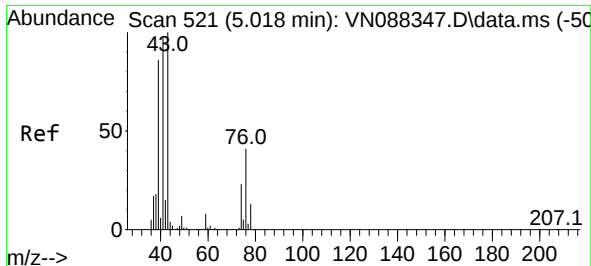
Tgt Ion: 41 Resp: 9999
 Ion Ratio Lower Upper
 41 100
 39 0.0 64.7 97.1#
 76 0.0 29.1 43.7#



#16
 Acetone
 Concen: 137.556 ug/l
 RT: 4.424 min Scan# 420
 Delta R.T. 0.006 min
 Lab File: VN088507.D
 Acq: 10 Dec 2025 17:34

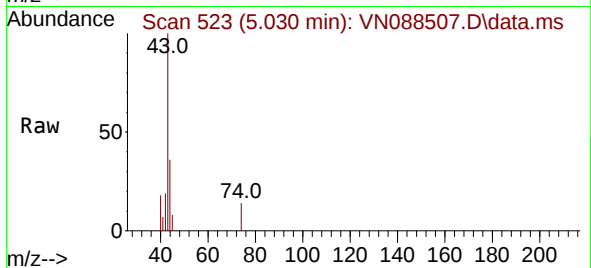
Tgt Ion: 43 Resp: 207851
 Ion Ratio Lower Upper
 43 100
 58 27.7 21.7 32.5



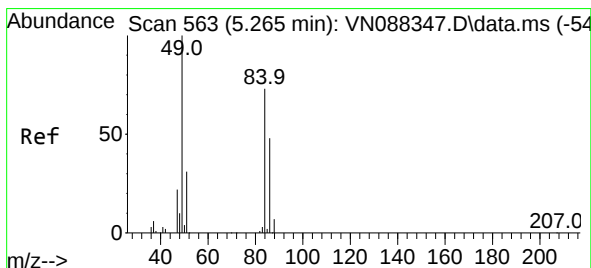
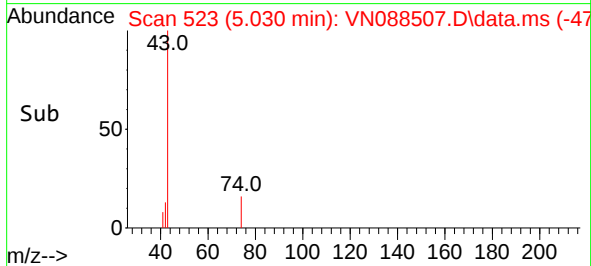
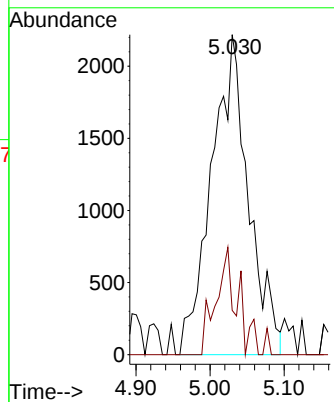


#18
Methyl Acetate
Concen: 1.711 ug/l
RT: 5.030 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN088507.D
Acq: 10 Dec 2025 17:34

Instrument :
MSVOA_N
ClientSampleId :

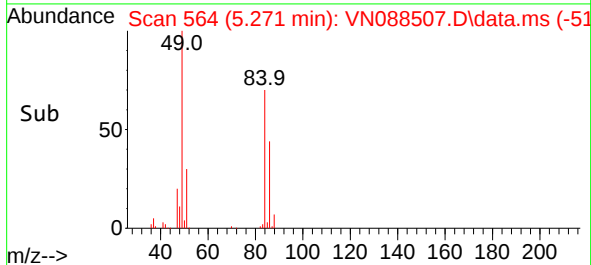
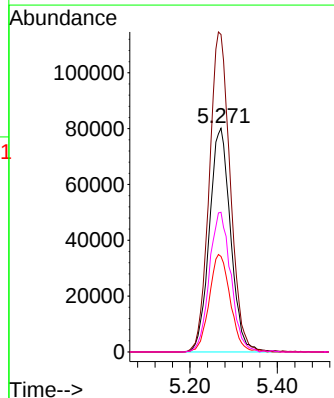
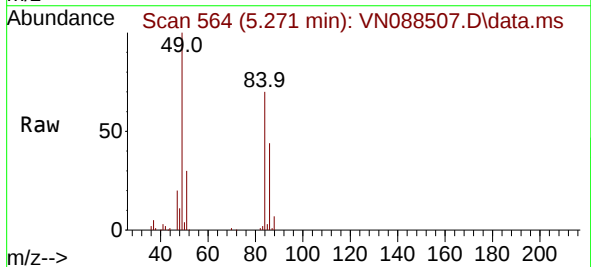


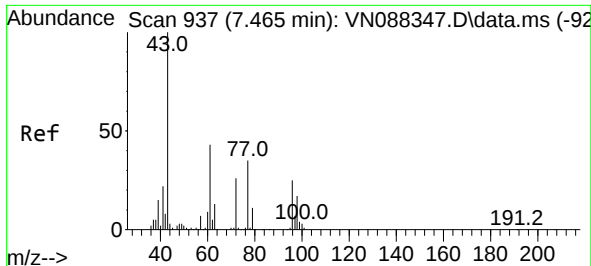
Tgt Ion: 43 Resp: 7694
Ion Ratio Lower Upper
43 100
74 19.6 17.9 26.9



#20
Methylene Chloride
Concen: 83.377 ug/l
RT: 5.271 min Scan# 564
Delta R.T. 0.006 min
Lab File: VN088507.D
Acq: 10 Dec 2025 17:34

Tgt Ion: 84 Resp: 269545
Ion Ratio Lower Upper
84 100
49 141.9 110.2 165.2
51 42.7 34.1 51.1
86 62.4 52.6 78.8

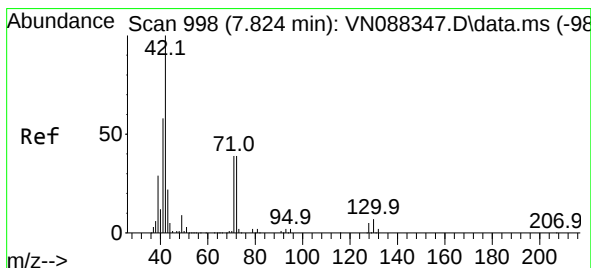
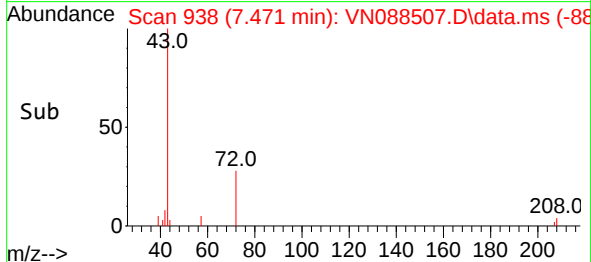
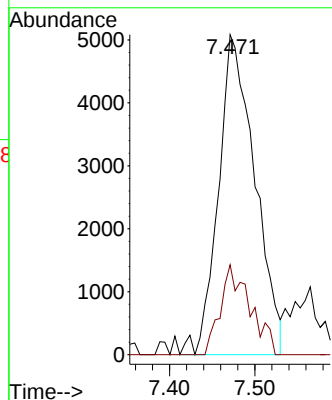
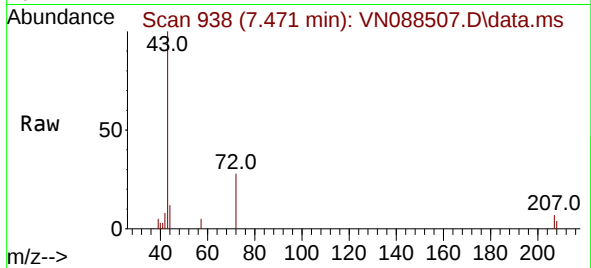




#25
2-Butanone
Concen: 6.210 ug/l
RT: 7.471 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN088507.D
Acq: 10 Dec 2025 17:34

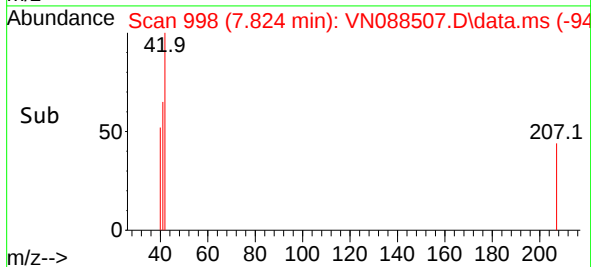
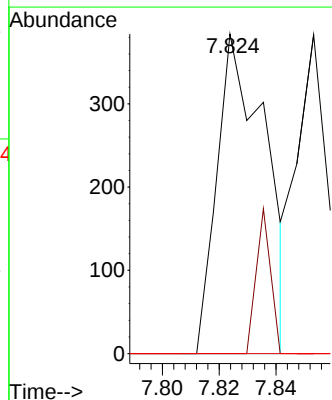
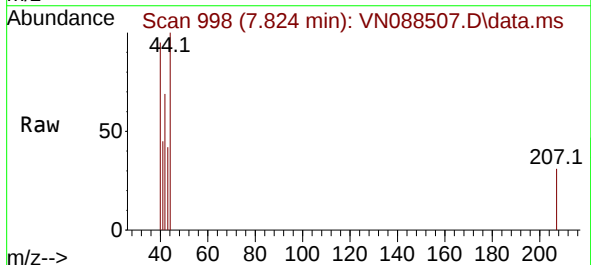
Instrument :
MSVOA_N
ClientSampleId :

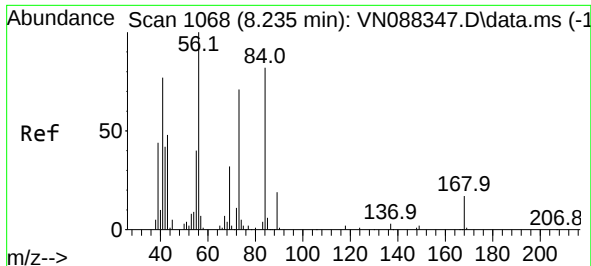
Tgt Ion: 43 Resp: 15086
Ion Ratio Lower Upper
43 100
72 28.1 20.5 30.7



#29
Tetrahydrofuran
Concen: 0.262 ug/l
RT: 7.824 min Scan# 998
Delta R.T. 0.000 min
Lab File: VN088507.D
Acq: 10 Dec 2025 17:34

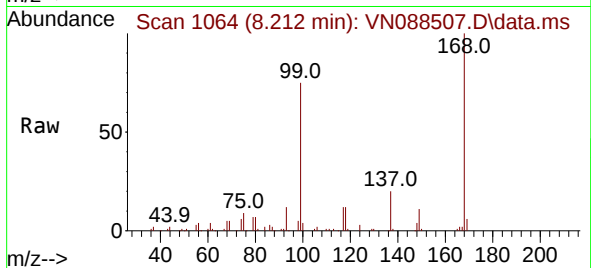
Tgt Ion: 42 Resp: 456
Ion Ratio Lower Upper
42 100
72 13.4 32.2 48.4#
71 0.0 31.1 46.7#



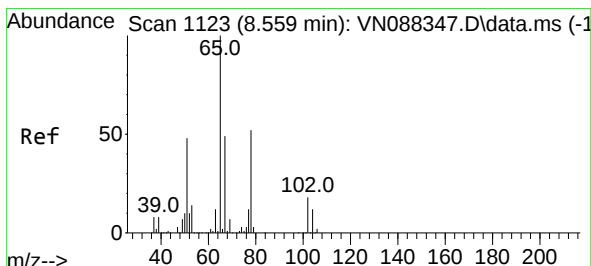
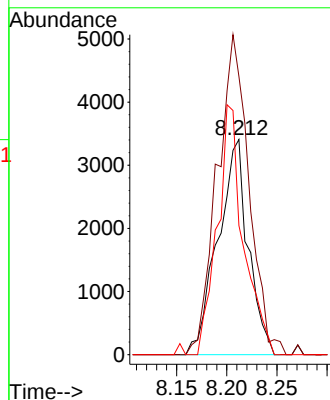
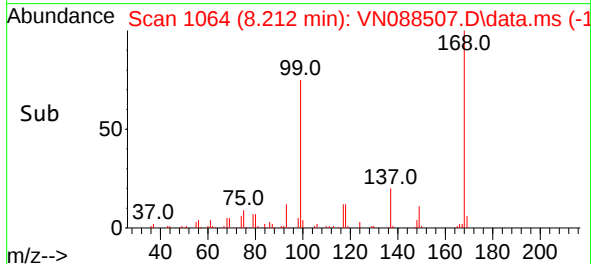


#31
Cyclohexane
Concen: 1.302 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. -0.023 min
Lab File: VN088507.D
Acq: 10 Dec 2025 17:34

Instrument :
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ClientSampleId :

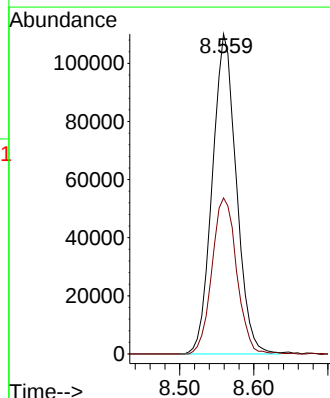
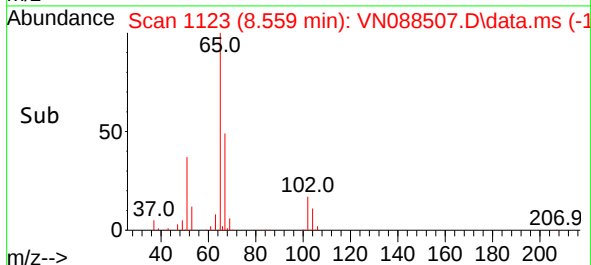
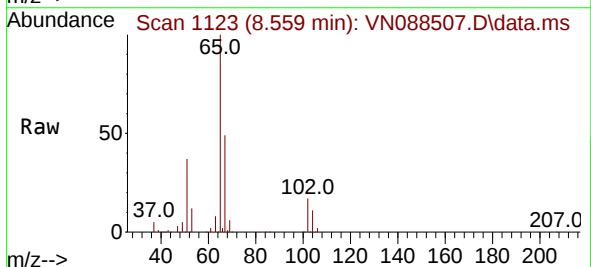


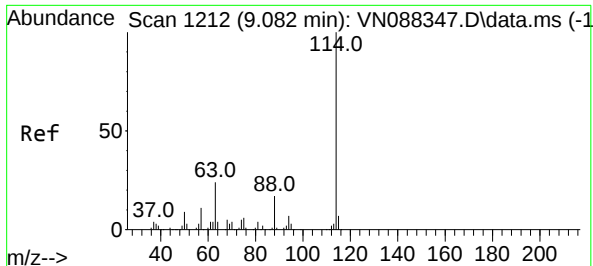
Tgt Ion: 56 Resp: 7157
Ion Ratio Lower Upper
56 100
69 129.3 25.3 37.9#
84 60.0 65.4 98.2#



#33
1,2-Dichloroethane-d4
Concen: 59.340 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. 0.000 min
Lab File: VN088507.D
Acq: 10 Dec 2025 17:34

Tgt Ion: 65 Resp: 247931
Ion Ratio Lower Upper
65 100
67 50.2 0.0 100.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.083 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN088507.D

Acq: 10 Dec 2025 17:34

Instrument :

MSVOA_N

ClientSampleId :

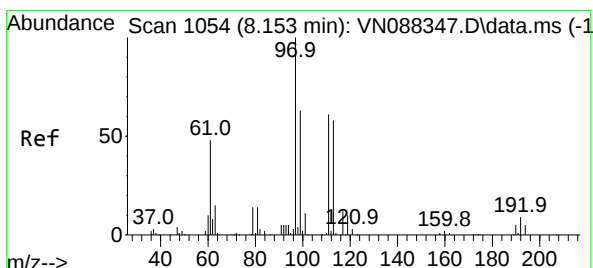
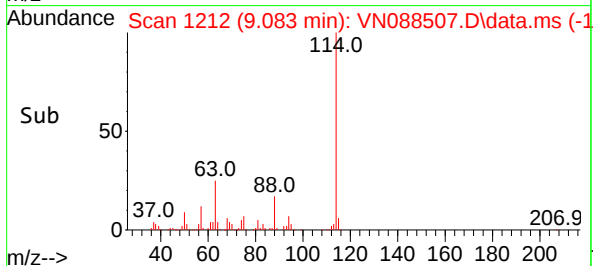
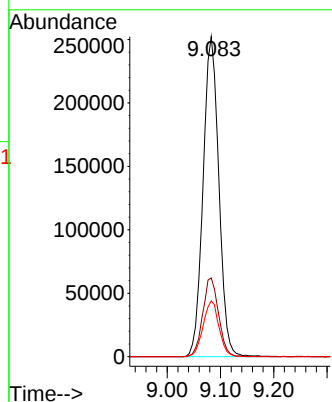
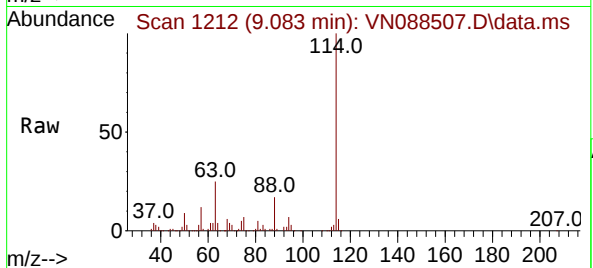
Tgt Ion:114 Resp: 518350

Ion Ratio Lower Upper

114 100

63 24.6 0.0 49.0

88 17.4 0.0 34.0



#35

Dibromofluoromethane

Concen: 49.681 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN088507.D

Acq: 10 Dec 2025 17:34

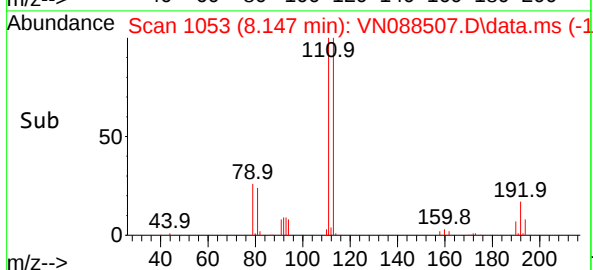
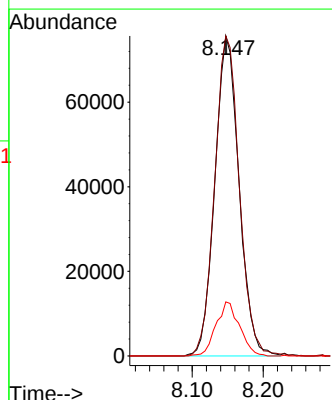
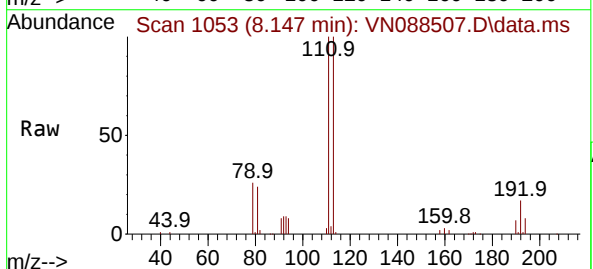
Tgt Ion:113 Resp: 178460

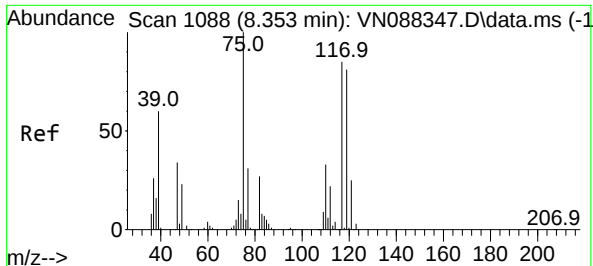
Ion Ratio Lower Upper

113 100

111 101.9 82.5 123.7

192 16.4 12.8 19.2





#36

1,1-Dichloropropene

Concen: 4.304 ug/l

RT: 8.206 min Scan# 1

Delta R.T. -0.147 min

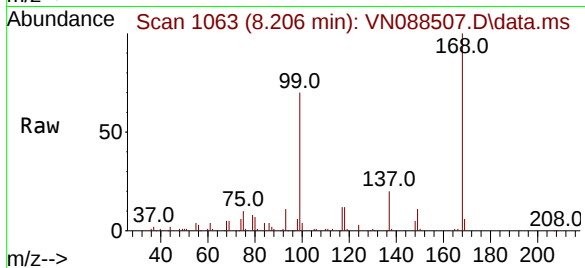
Lab File: VN088507.D

Acq: 10 Dec 2025 17:34

Instrument :

MSVOA_N

ClientSampleId :



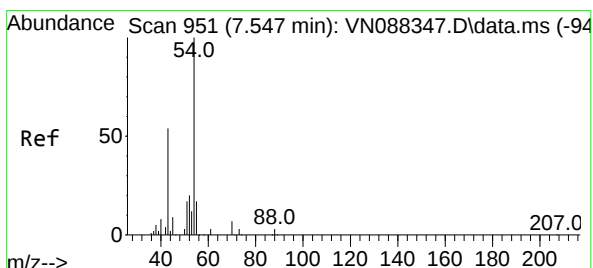
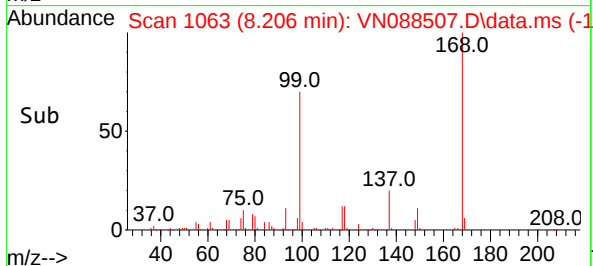
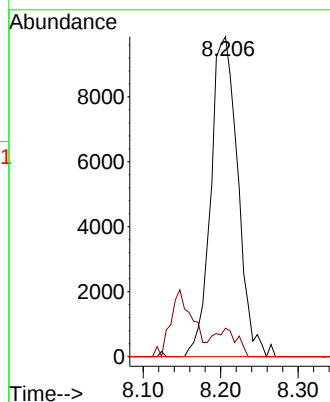
Tgt Ion: 75 Resp: 23863

Ion Ratio Lower Upper

75 100

110 7.5 15.8 47.4#

77 0.0 24.2 36.2#



#37

Ethyl Acetate

Concen: 0.296 ug/l

RT: 7.565 min Scan# 954

Delta R.T. 0.018 min

Lab File: VN088507.D

Acq: 10 Dec 2025 17:34

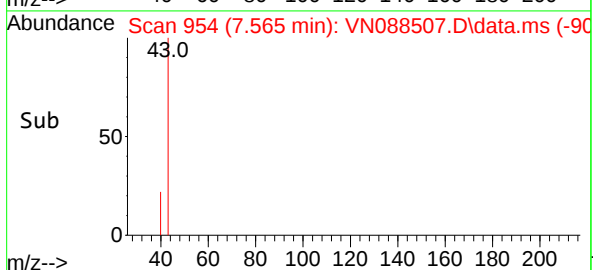
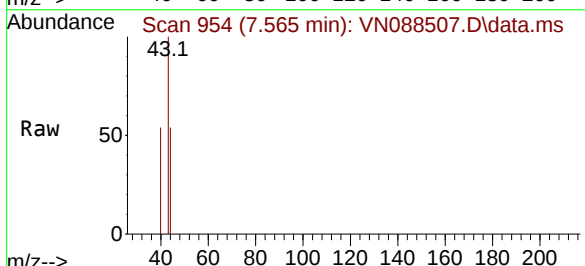
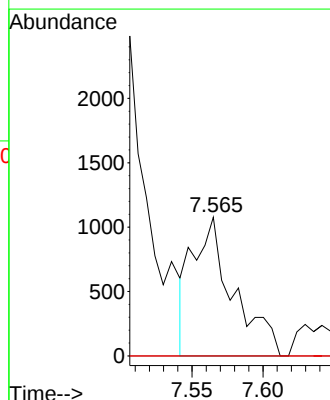
Tgt Ion: 43 Resp: 2157

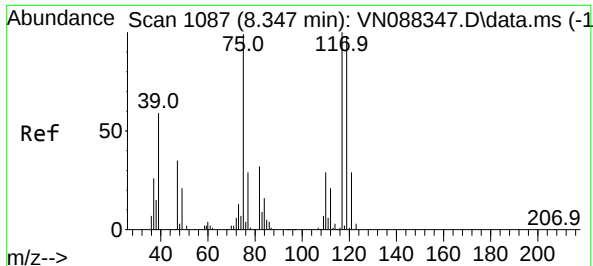
Ion Ratio Lower Upper

43 100

61 0.0 9.5 14.3#

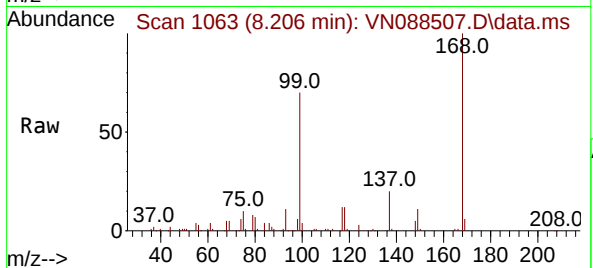
70 0.0 7.1 10.7#



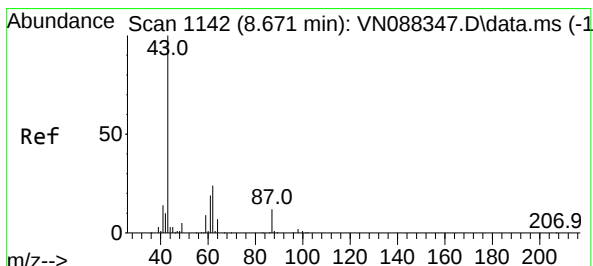
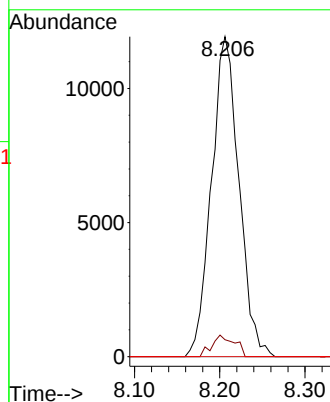
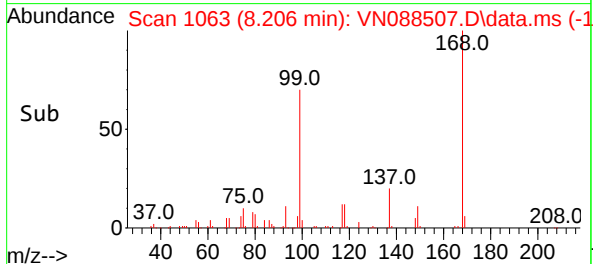


#38
Carbon Tetrachloride
Concen: 4.842 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.141 min
Lab File: VN088507.D
Acq: 10 Dec 2025 17:34

Instrument :
MSVOA_N
ClientSampleId :

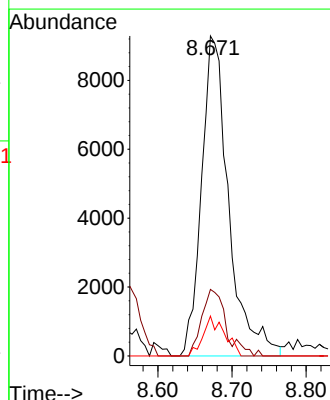
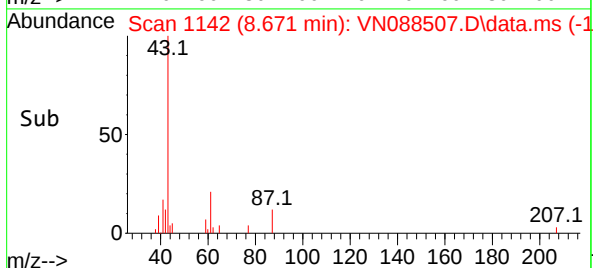
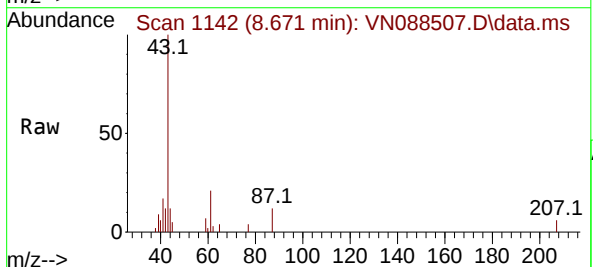


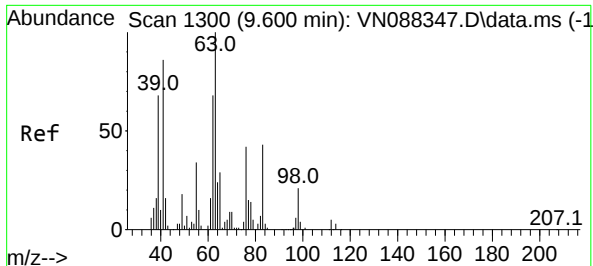
Tgt Ion:117 Resp: 26722
Ion Ratio Lower Upper
117 100
119 5.3 78.2 117.4#
121 0.0 23.4 35.2#



#43
Isopropyl Acetate
Concen: 2.131 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VN088507.D
Acq: 10 Dec 2025 17:34

Tgt Ion: 43 Resp: 23732
Ion Ratio Lower Upper
43 100
61 18.6 18.7 28.1#
87 9.7 9.1 13.7

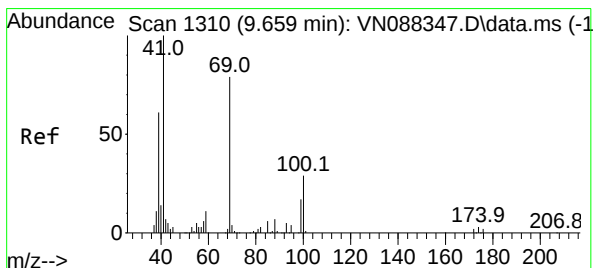
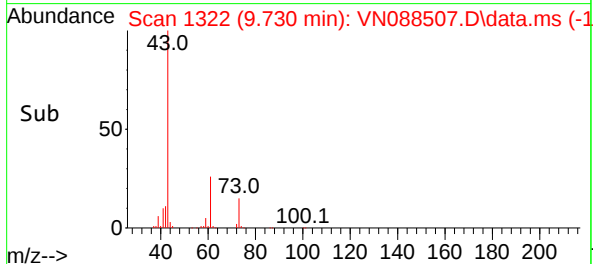
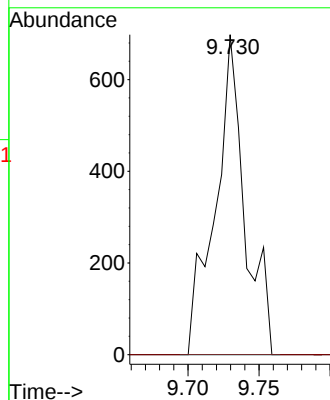
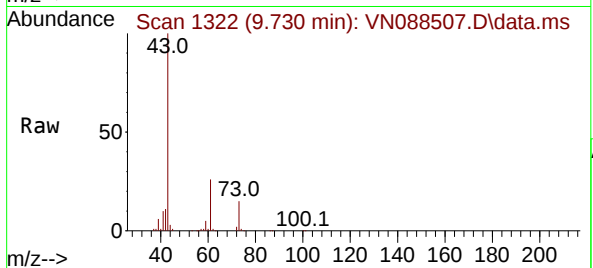




#45
1,2-Dichloropropane
Concen: 0.243 ug/l
RT: 9.730 min Scan# 11
Delta R.T. 0.130 min
Lab File: VN088507.D
Acq: 10 Dec 2025 17:34

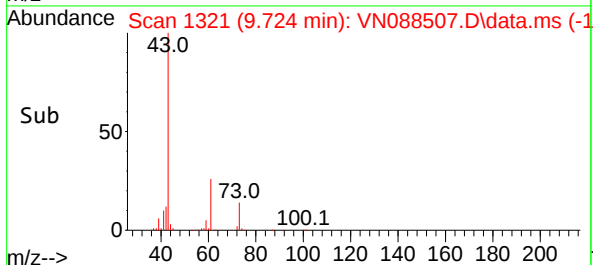
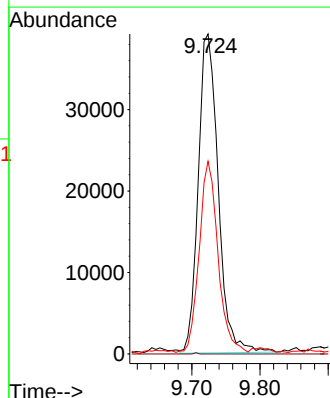
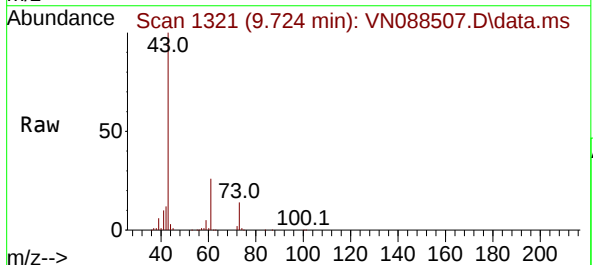
Instrument :
MSVOA_N
ClientSampleId :

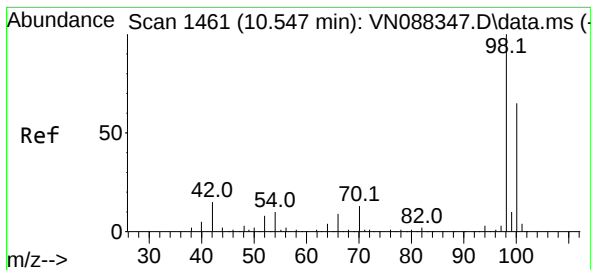
Tgt Ion: 63 Resp: 1012
Ion Ratio Lower Upper
63 100
65 0.0 23.0 34.4#



#48
Methyl methacrylate
Concen: 15.657 ug/l
RT: 9.724 min Scan# 1321
Delta R.T. 0.065 min
Lab File: VN088507.D
Acq: 10 Dec 2025 17:34

Tgt Ion: 41 Resp: 79561
Ion Ratio Lower Upper
41 100
69 0.1 62.4 93.6#
39 57.1 52.6 79.0

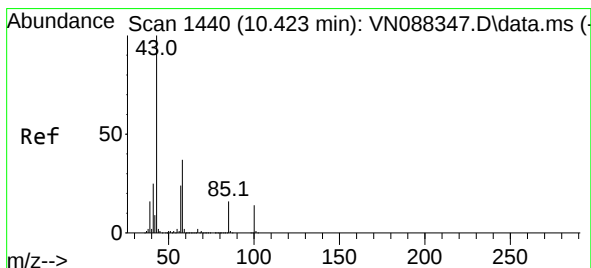
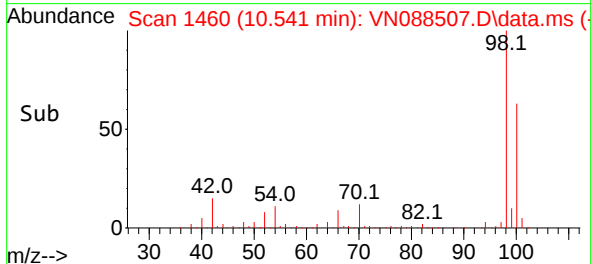
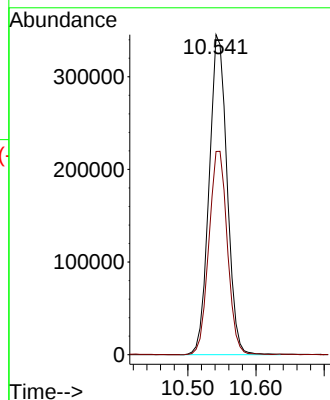
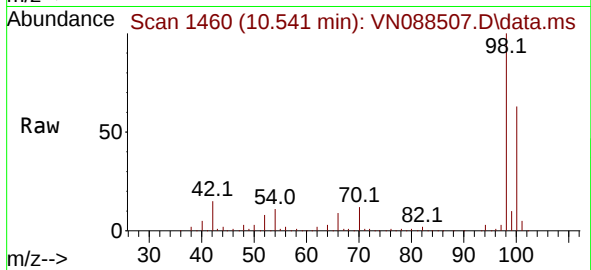




#50
Toluene-d8
Concen: 47.280 ug/l
RT: 10.541 min Scan# 1460
Delta R.T. -0.006 min
Lab File: VN088507.D
Acq: 10 Dec 2025 17:34

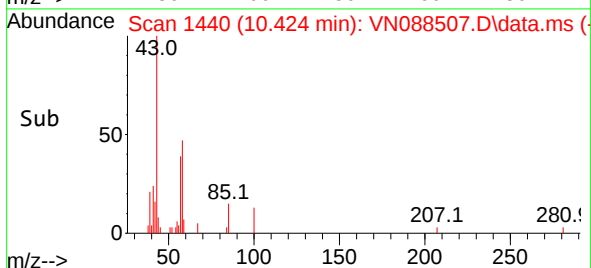
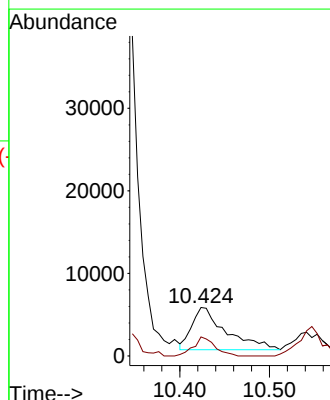
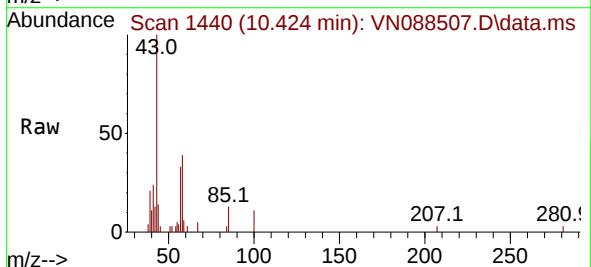
Instrument :
MSVOA_N
ClientSampleId :

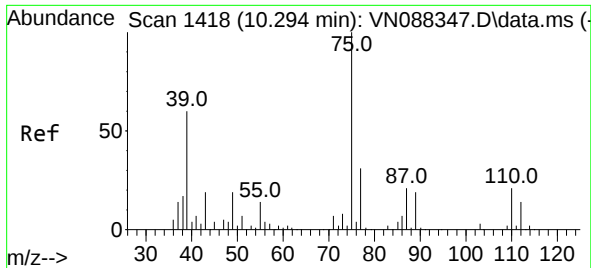
Tgt Ion: 98 Resp: 631929
Ion Ratio Lower Upper
98 100
100 65.4 52.2 78.2



#51
4-Methyl-2-Pentanone
Concen: 2.063 ug/l
RT: 10.424 min Scan# 1440
Delta R.T. 0.000 min
Lab File: VN088507.D
Acq: 10 Dec 2025 17:34

Tgt Ion: 43 Resp: 13545
Ion Ratio Lower Upper
43 100
58 28.0 29.1 43.7#

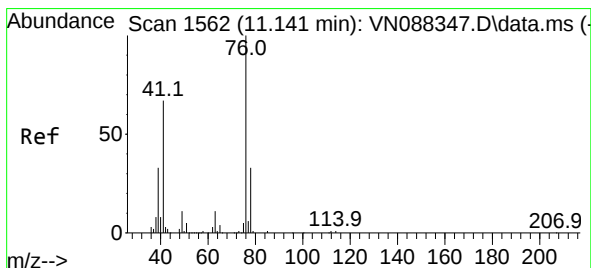
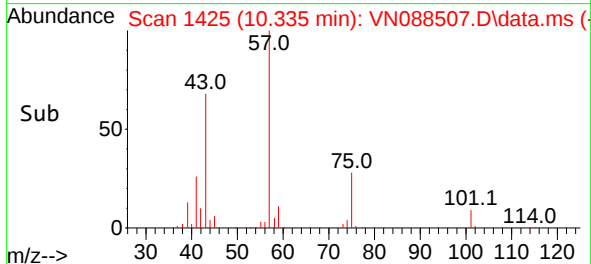
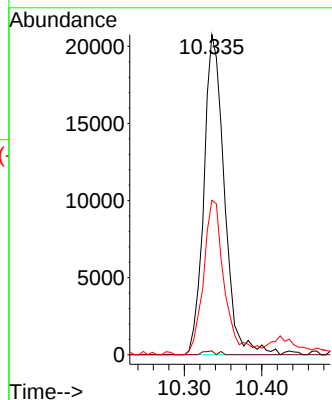
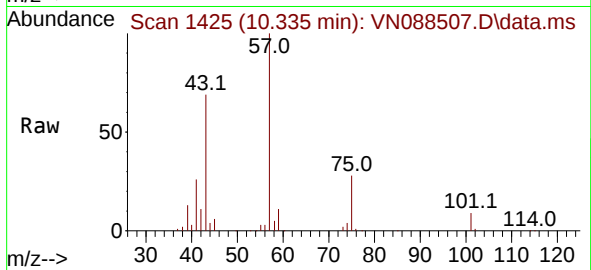




#54
 cis-1,3-Dichloropropene
 Concen: 5.819 ug/l
 RT: 10.335 min Scan# 1418
 Delta R.T. 0.041 min
 Lab File: VN088507.D
 Acq: 10 Dec 2025 17:34

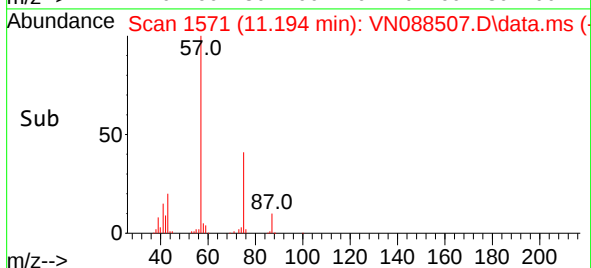
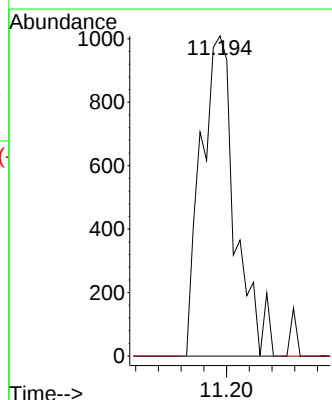
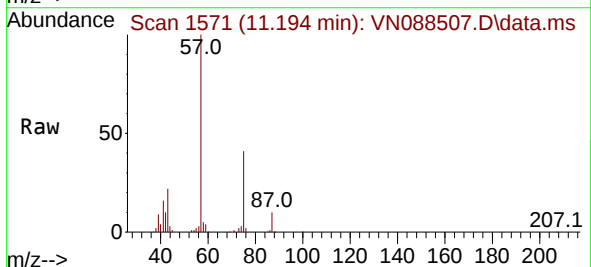
Instrument :
 MSVOA_N
 ClientSampleId :

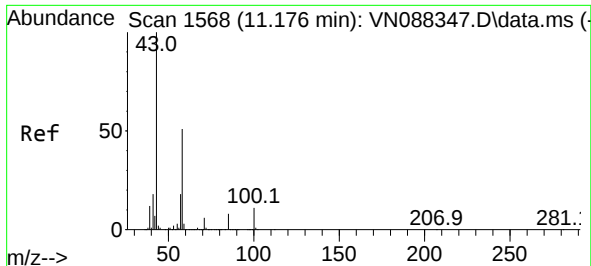
Tgt Ion: 75 Resp: 38131
 Ion Ratio Lower Upper
 75 100
 77 1.2 24.5 36.7#
 39 48.2 48.3 72.5#



#57
 1,3-Dichloropropane
 Concen: 0.320 ug/l
 RT: 11.194 min Scan# 1571
 Delta R.T. 0.053 min
 Lab File: VN088507.D
 Acq: 10 Dec 2025 17:34

Tgt Ion: 76 Resp: 2101
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.2 39.4#

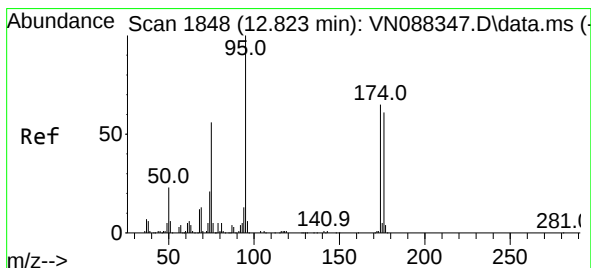
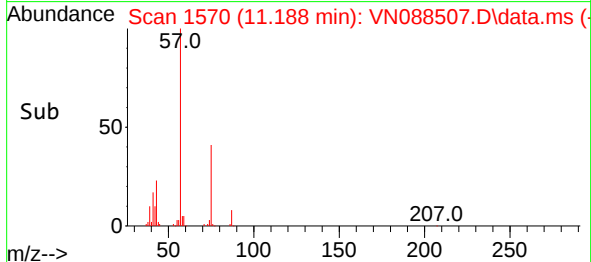
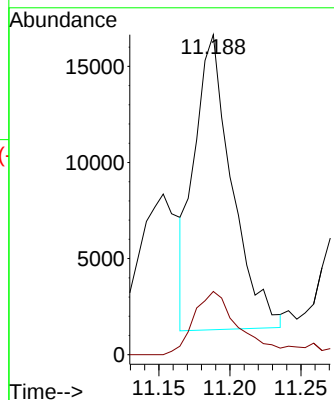
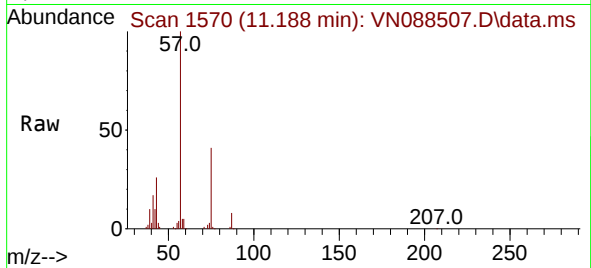




#59
2-Hexanone
Concen: 6.789 ug/l
RT: 11.188 min Scan# 111
Delta R.T. 0.012 min
Lab File: VN088507.D
Acq: 10 Dec 2025 17:34

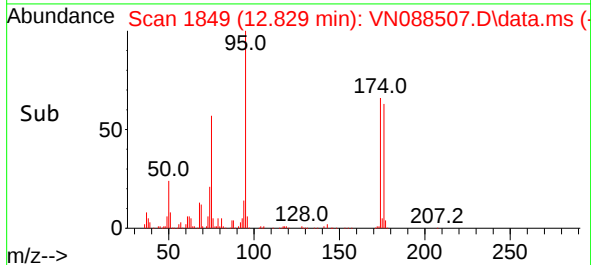
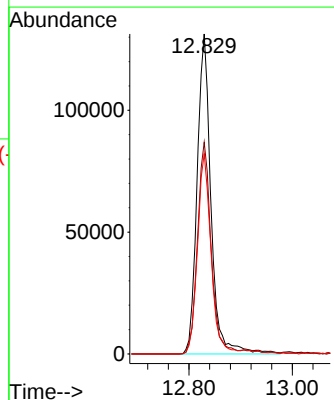
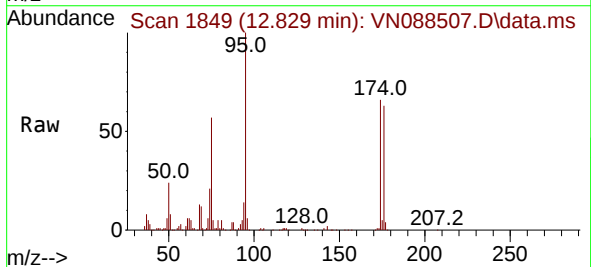
Instrument :
MSVOA_N
ClientSampleId :

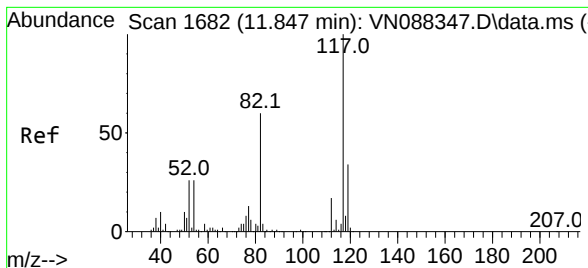
Tgt Ion: 43 Resp: 28076
Ion Ratio Lower Upper
43 100
58 26.3 25.3 75.9



#62
4-Bromofluorobenzene
Concen: 53.398 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088507.D
Acq: 10 Dec 2025 17:34

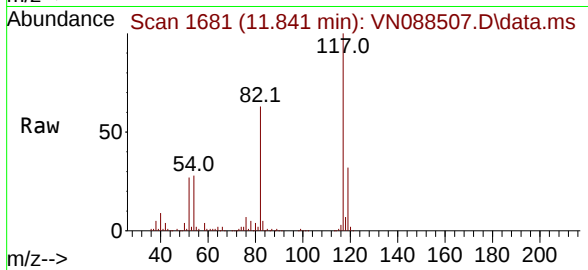
Tgt Ion: 95 Resp: 244881
Ion Ratio Lower Upper
95 100
174 65.3 0.0 139.0
176 60.9 0.0 132.4



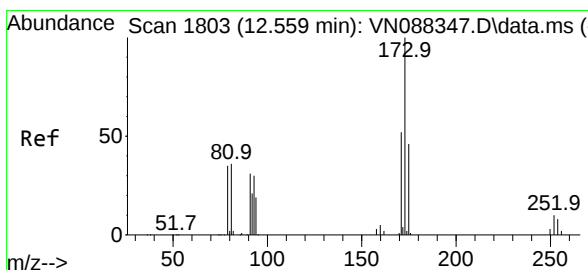
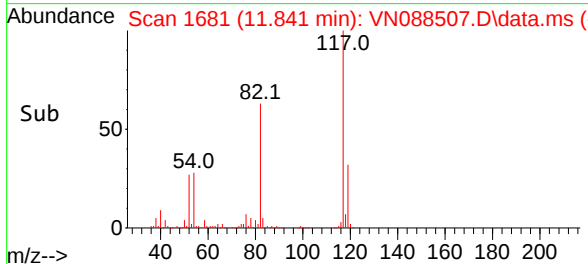
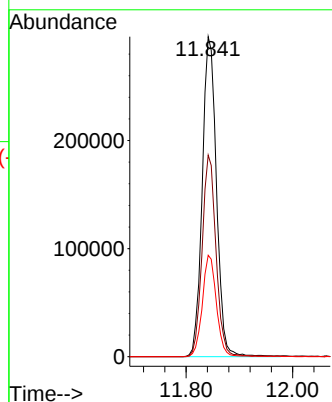


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088507.D
Acq: 10 Dec 2025 17:34

Instrument :
MSVOA_N
ClientSampleId :

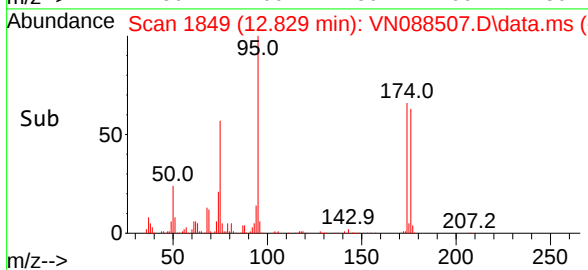
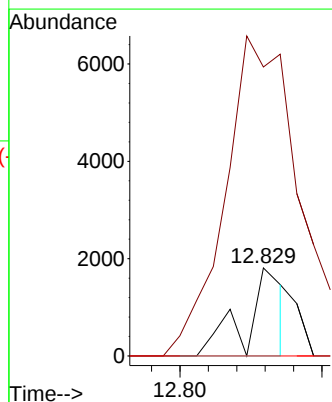
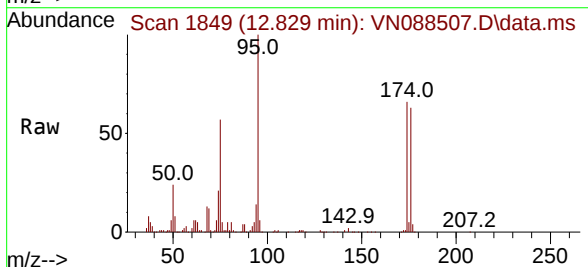


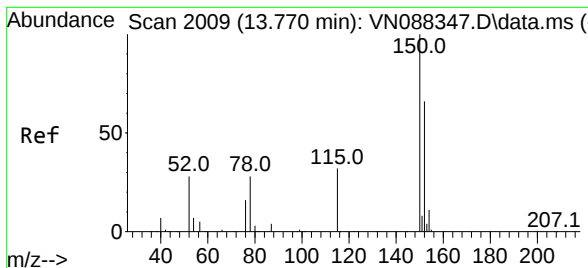
Tgt Ion:117 Resp: 548520
Ion Ratio Lower Upper
117 100
82 63.0 47.8 71.8
119 31.7 26.9 40.3



#71
Bromoform
Concen: 0.544 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.271 min
Lab File: VN088507.D
Acq: 10 Dec 2025 17:34

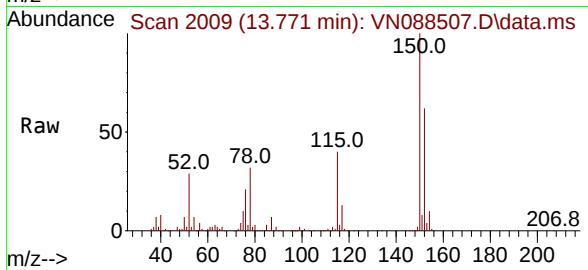
Tgt Ion:173 Resp: 1655
Ion Ratio Lower Upper
173 100
175 422.0 23.9 71.8#
254 0.0 0.1 0.1#



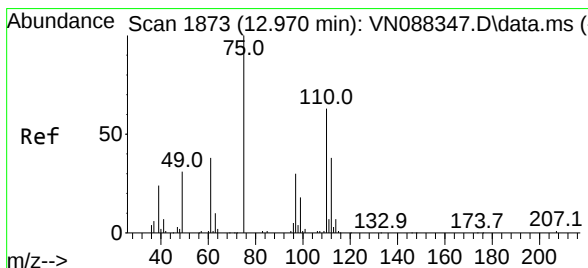
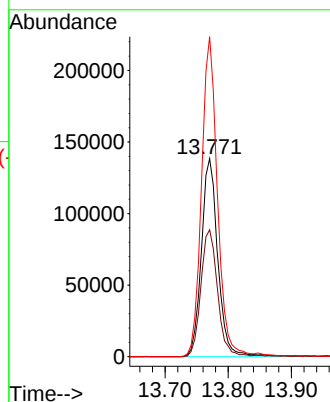
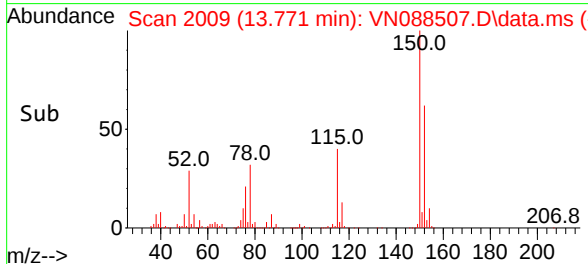


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.771 min Scan# 20
 Delta R.T. 0.000 min
 Lab File: VN088507.D
 Acq: 10 Dec 2025 17:34

Instrument :
 MSVOA_N
 ClientSampleId :

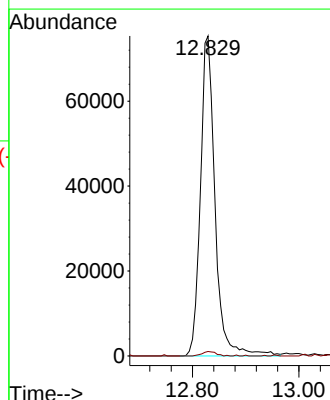
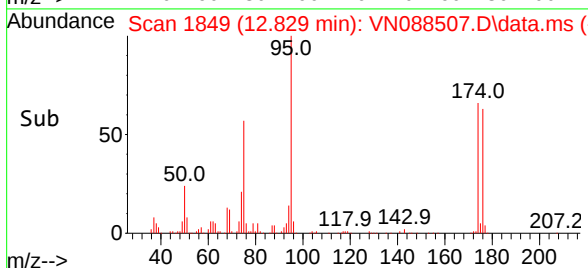
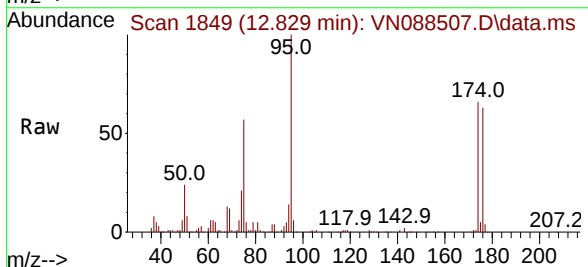


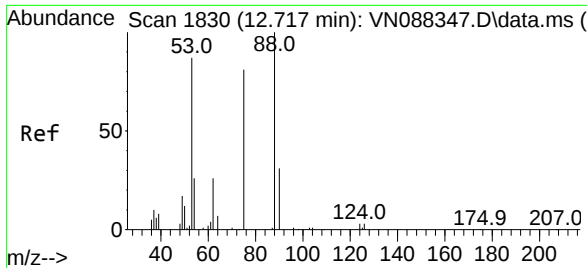
Tgt Ion:152 Resp: 250354
 Ion Ratio Lower Upper
 152 100
 115 64.8 33.0 98.9
 150 157.4 0.0 349.0



#76
 1,2,3-Trichloropropane
 Concen: 24.469 ug/l
 RT: 12.829 min Scan# 1849
 Delta R.T. -0.141 min
 Lab File: VN088507.D
 Acq: 10 Dec 2025 17:34

Tgt Ion: 75 Resp: 143479
 Ion Ratio Lower Upper
 75 100
 77 1.4 87.2 261.6#

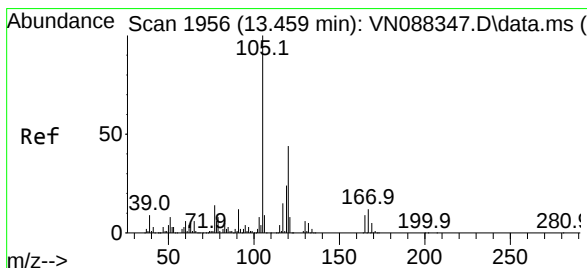
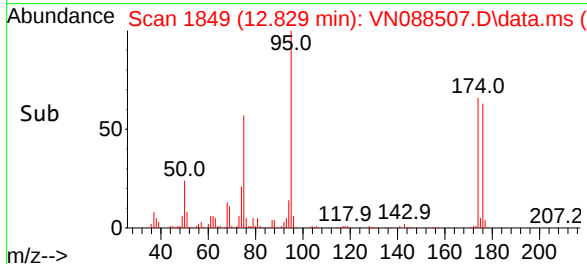
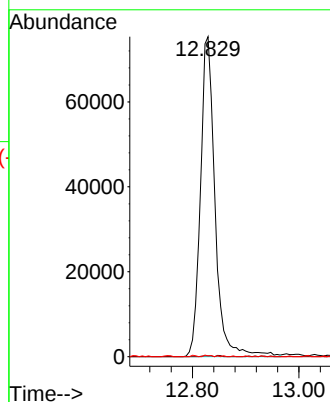
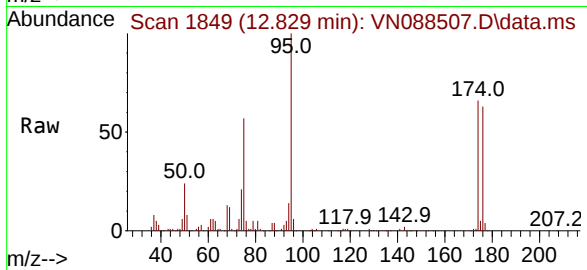




#81
trans-1,4-Dichloro-2-butene
Concen: 69.417 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN088507.D
Acq: 10 Dec 2025 17:34

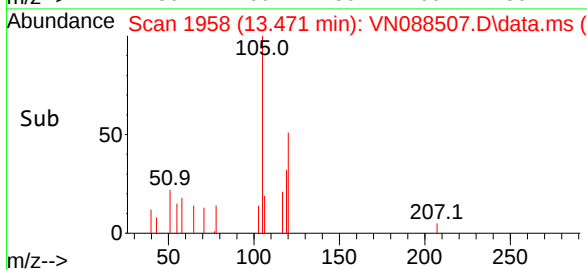
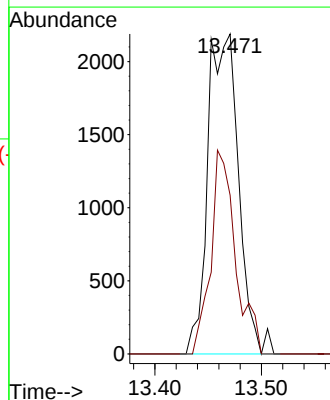
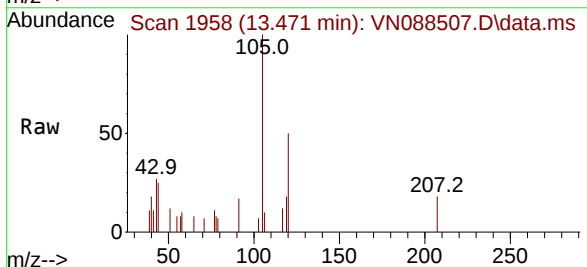
Instrument :
MSVOA_N
ClientSampleId :

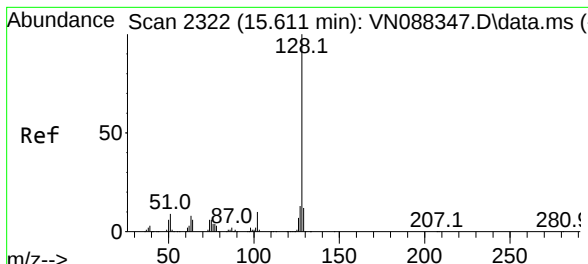
Tgt Ion: 75 Resp: 143479
Ion Ratio Lower Upper
75 100
53 0.2 92.2 138.4#
89 0.2 0.0 0.0#



#84
1,2,4-Trimethylbenzene
Concen: 0.288 ug/l
RT: 13.471 min Scan# 1958
Delta R.T. 0.012 min
Lab File: VN088507.D
Acq: 10 Dec 2025 17:34

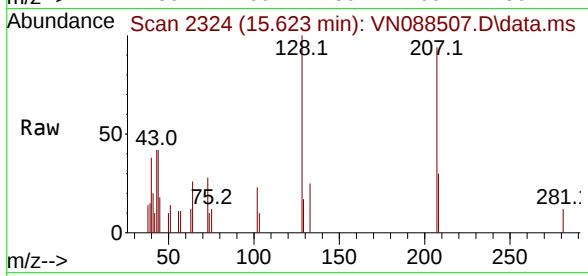
Tgt Ion: 105 Resp: 4394
Ion Ratio Lower Upper
105 100
120 51.0 22.1 66.1





#95
 Naphthalene
 Concen: 0.228 ug/l
 RT: 15.623 min Scan# 21
 Delta R.T. 0.012 min
 Lab File: VN088507.D
 Acq: 10 Dec 2025 17:34

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:128 Resp: 3638

Ion	Ratio	Lower	Upper
128	100		
127	6.3	10.4	15.6#
129	10.7	9.0	13.6

