

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121025\
 Data File : VN088501.D
 Acq On : 10 Dec 2025 15:29
 Operator : JC\MD
 Sample : Q3814-08
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 11 02:09:44 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	203441	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	477666	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	501169	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.771	152	226784	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	225858	58.934	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	117.860%
35) Dibromofluoromethane	8.147	113	160701	48.547	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	97.100%
50) Toluene-d8	10.541	98	580660	47.145	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	94.280%
62) 4-Bromofluorobenzene	12.829	95	210405	49.788	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	99.580%

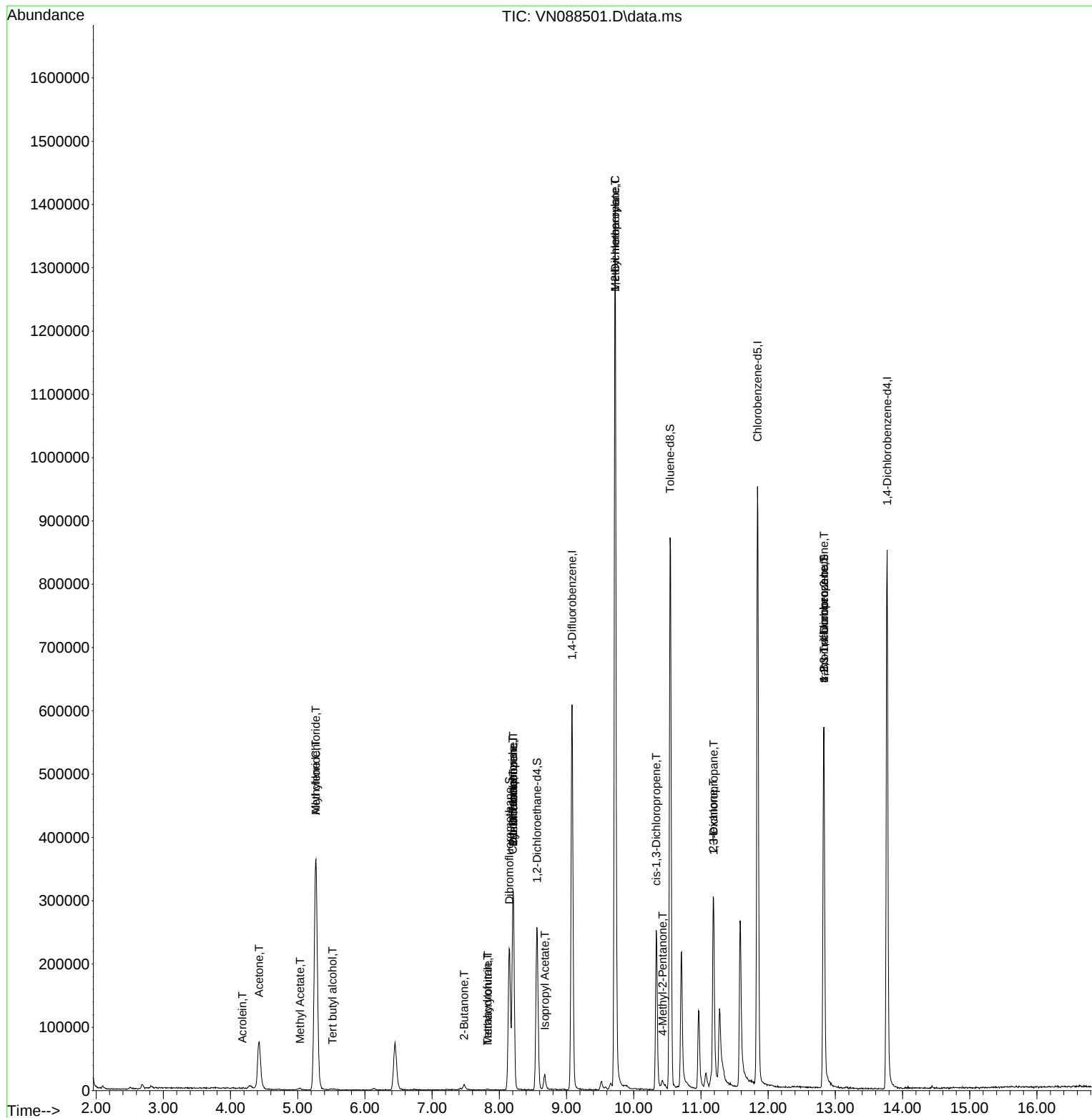
Target Compounds				Qvalue		
11) Tert butyl alcohol	5.518	59	2906	4.749	ug/l #	72
13) Acrolein	4.177	56	241	0.411	ug/l #	14
14) Allyl chloride	5.271	41	9792	2.129	ug/l #	18
16) Acetone	4.424	43	158637	114.456	ug/l	93
18) Methyl Acetate	5.036	43	6351	1.539	ug/l #	74
20) Methylene Chloride	5.271	84	277086	93.440	ug/l	95
25) 2-Butanone	7.477	43	14310	6.422	ug/l #	87
29) Tetrahydrofuran	7.824	42	871	0.545	ug/l #	74
31) Cyclohexane	8.206	56	7372	1.463	ug/l #	58
36) 1,1-Dichloropropene	8.206	75	22834	4.470	ug/l #	52
38) Carbon Tetrachloride	8.200	117	25355	4.986	ug/l #	14
41) Methacrylonitrile	7.830	41	883	0.265	ug/l #	35
43) Isopropyl Acetate	8.677	43	27822	2.711	ug/l #	89
45) 1,2-Dichloropropane	9.724	63	1916	0.499	ug/l #	46
48) Methyl methacrylate	9.724	41	140666	30.039	ug/l #	47
51) 4-Methyl-2-Pentanone	10.430	43	17856	2.952	ug/l #	73
54) cis-1,3-Dichloropropene	10.335	75	41945	6.946	ug/l #	70
57) 1,3-Dichloropropane	11.188	76	3559	0.589	ug/l #	45
59) 2-Hexanone	11.182	43	68839	18.064	ug/l #	50
76) 1,2,3-Trichloropropane	12.829	75	124320	23.405	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	124320	66.399	ug/l #	1

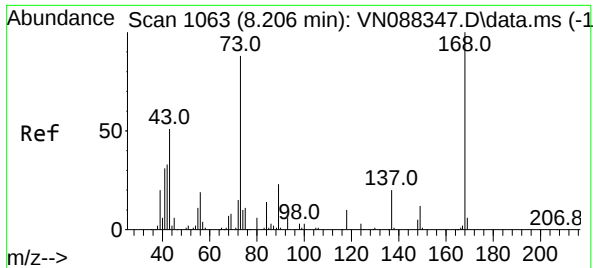
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121025\
Data File : VN088501.D
Acq On : 10 Dec 2025 15:29
Operator : JC\MD
Sample : Q3814-08
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

Quant Time: Dec 11 02:09:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

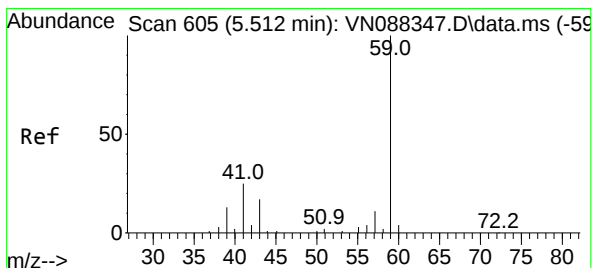
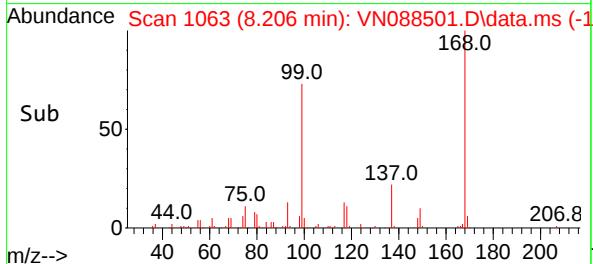
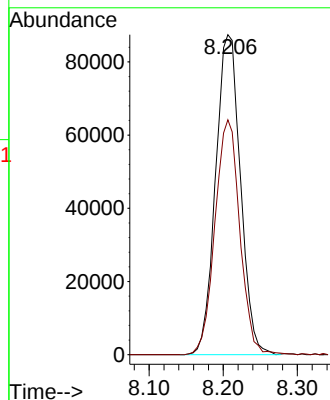
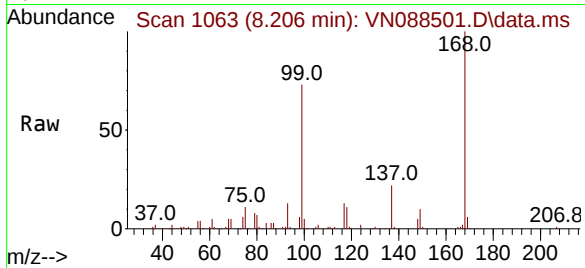




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN088501.D
Acq: 10 Dec 2025 15:29

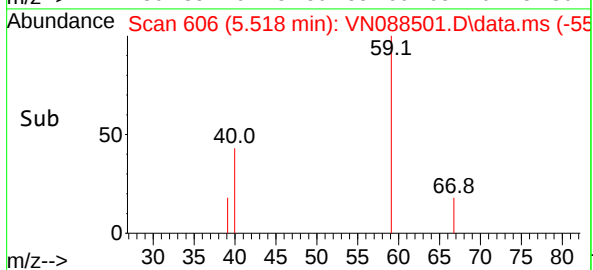
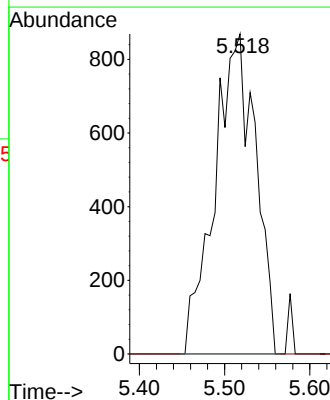
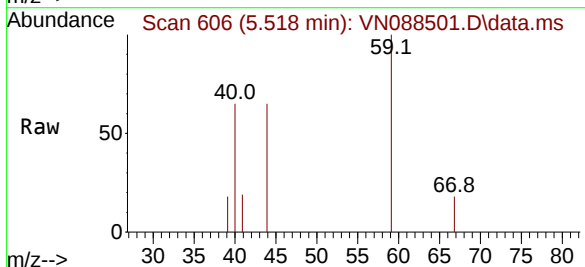
Instrument :
MSVOA_N
ClientSampleId :

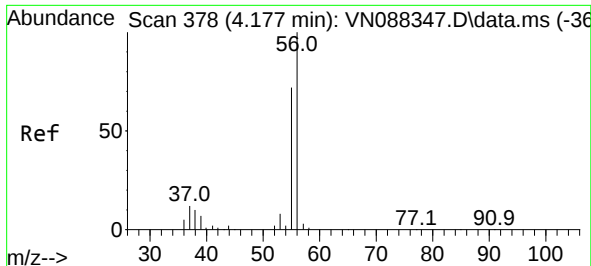
Tgt Ion:168 Resp: 203441
Ion Ratio Lower Upper
168 100
99 73.4 57.1 85.7



#11
Tert butyl alcohol
Concen: 4.749 ug/l
RT: 5.518 min Scan# 606
Delta R.T. 0.006 min
Lab File: VN088501.D
Acq: 10 Dec 2025 15:29

Tgt Ion: 59 Resp: 2906
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#

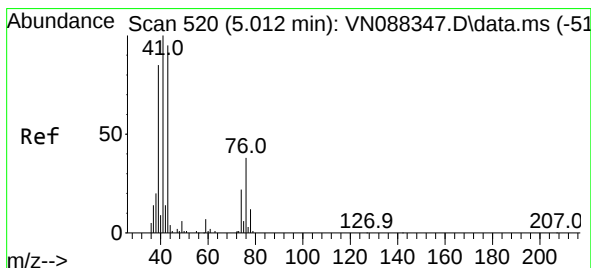
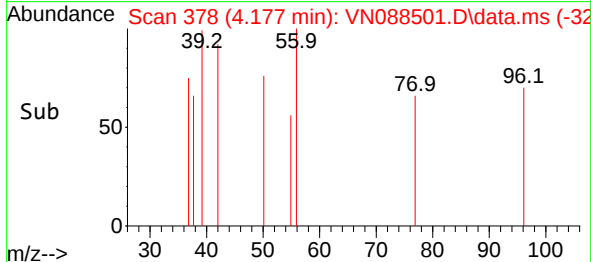
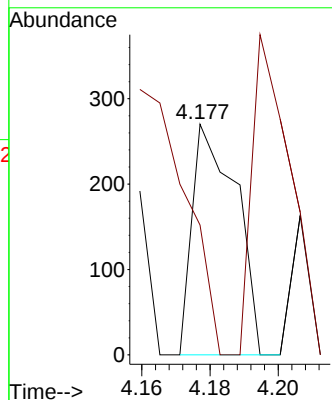
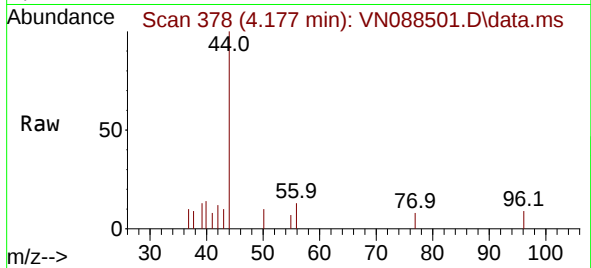




#13
Acrolein
Concen: 0.411 ug/l
RT: 4.177 min Scan# 31
Delta R.T. 0.000 min
Lab File: VN088501.D
Acq: 10 Dec 2025 15:29

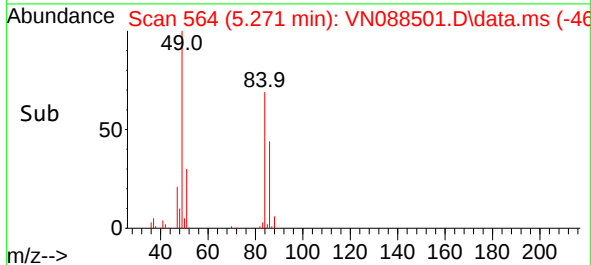
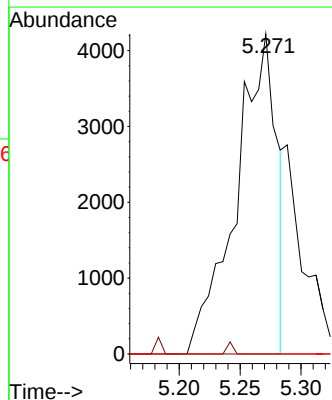
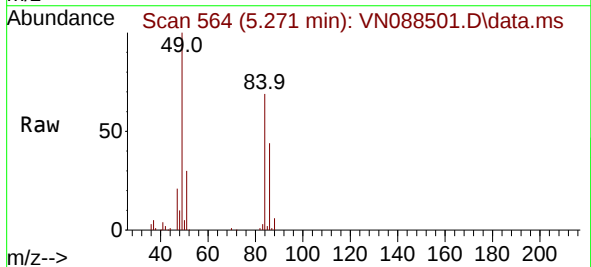
Instrument :
MSVOA_N
ClientSampleId :

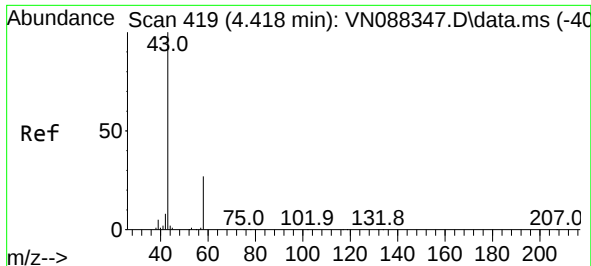
Tgt Ion: 56 Resp: 241
Ion Ratio Lower Upper
56 100
55 0.0 56.3 84.5#



#14
Allyl chloride
Concen: 2.129 ug/l
RT: 5.271 min Scan# 564
Delta R.T. 0.259 min
Lab File: VN088501.D
Acq: 10 Dec 2025 15:29

Tgt Ion: 41 Resp: 9792
Ion Ratio Lower Upper
41 100
39 0.0 64.7 97.1#
76 0.0 29.1 43.7#

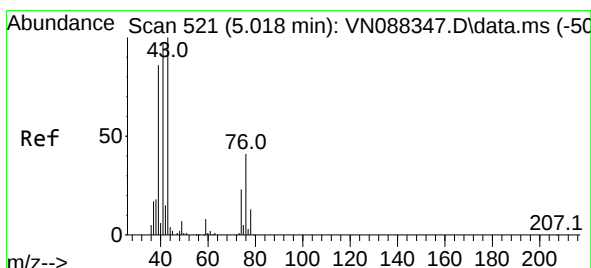
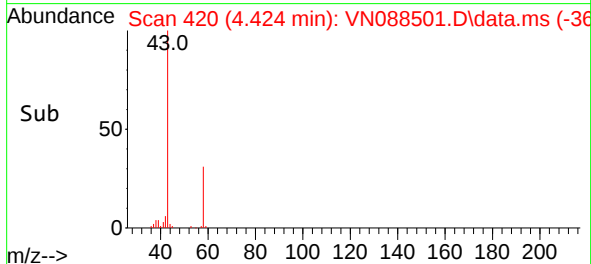
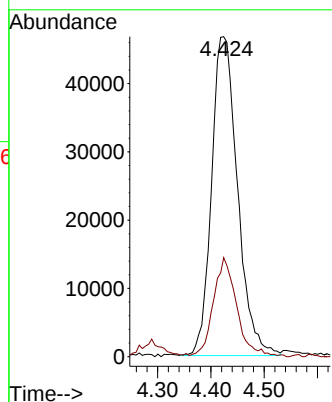
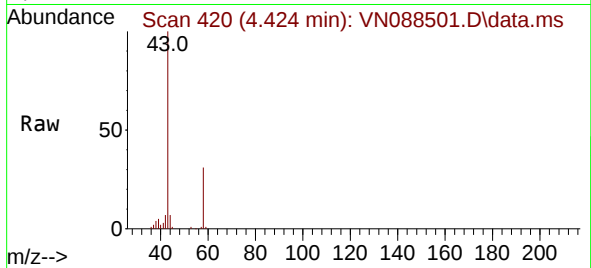




#16
Acetone
Concen: 114.456 ug/l
RT: 4.424 min Scan# 419
Delta R.T. 0.006 min
Lab File: VN088501.D
Acq: 10 Dec 2025 15:29

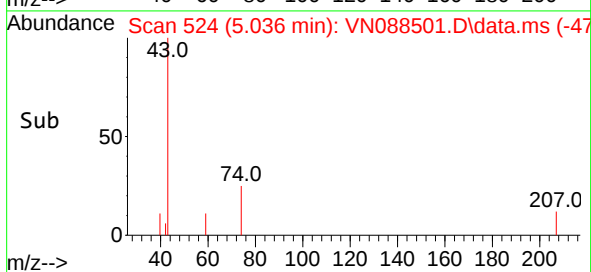
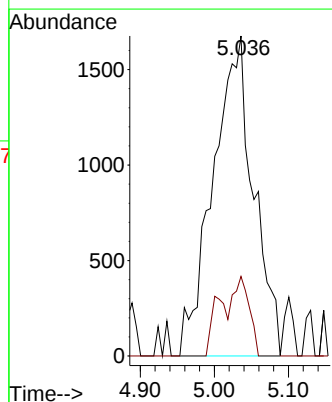
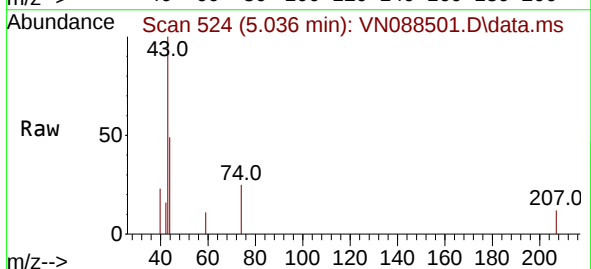
Instrument :
MSVOA_N
ClientSampleId :

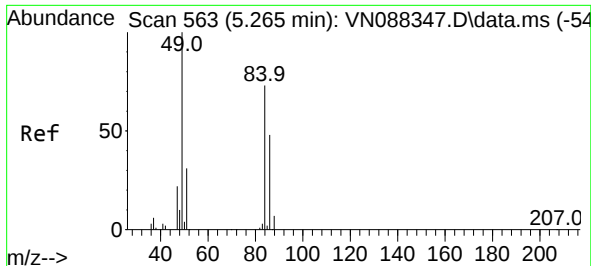
Tgt Ion: 43 Resp: 158637
Ion Ratio Lower Upper
43 100
58 30.5 21.7 32.5



#18
Methyl Acetate
Concen: 1.539 ug/l
RT: 5.036 min Scan# 524
Delta R.T. 0.018 min
Lab File: VN088501.D
Acq: 10 Dec 2025 15:29

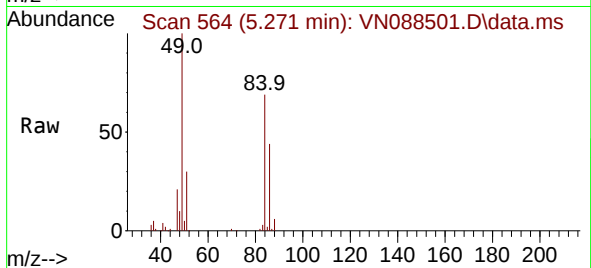
Tgt Ion: 43 Resp: 6351
Ion Ratio Lower Upper
43 100
74 10.2 17.9 26.9#



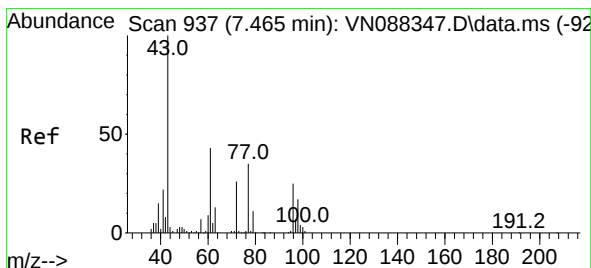
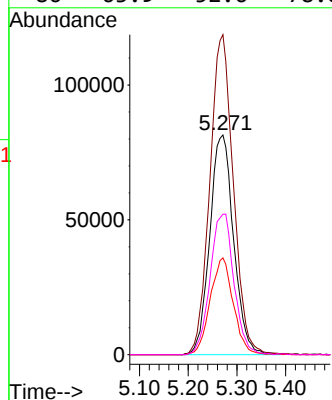
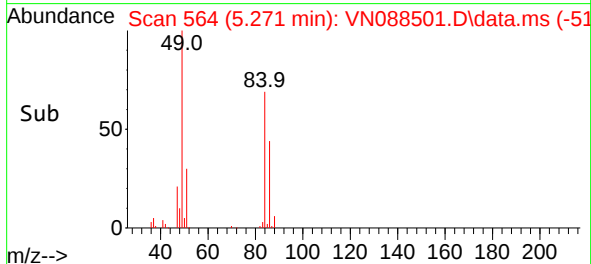


#20
Methylene Chloride
Concen: 93.440 ug/l
RT: 5.271 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN088501.D
Acq: 10 Dec 2025 15:29

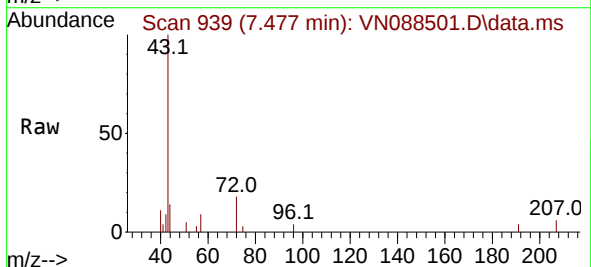
Instrument :
MSVOA_N
ClientSampleId :



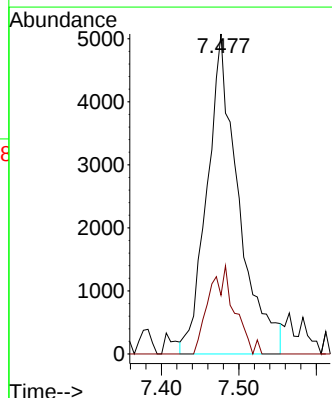
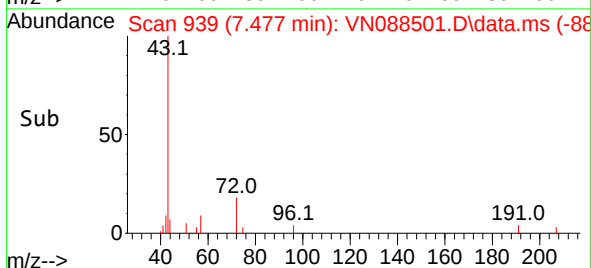
Tgt Ion: 84 Resp: 277086
Ion Ratio Lower Upper
84 100
49 145.7 110.2 165.2
51 44.1 34.1 51.1
86 63.9 52.6 78.8

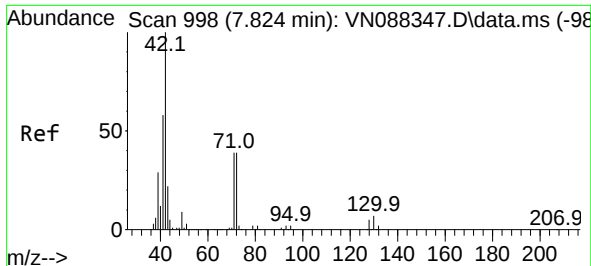


#25
2-Butanone
Concen: 6.422 ug/l
RT: 7.477 min Scan# 939
Delta R.T. 0.012 min
Lab File: VN088501.D
Acq: 10 Dec 2025 15:29



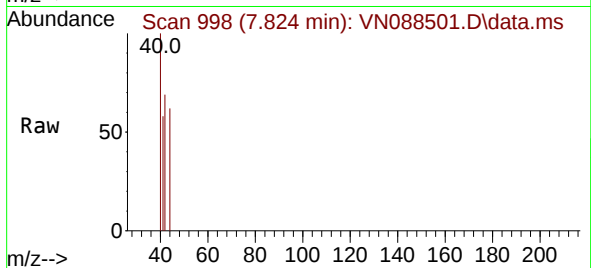
Tgt Ion: 43 Resp: 14310
Ion Ratio Lower Upper
43 100
72 19.1 20.5 30.7#



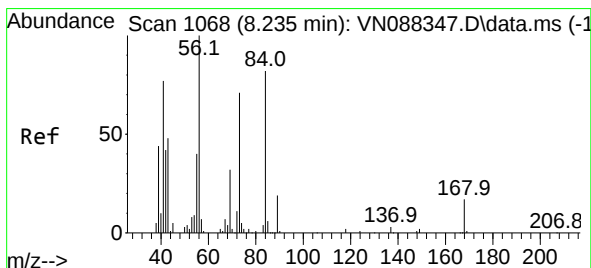
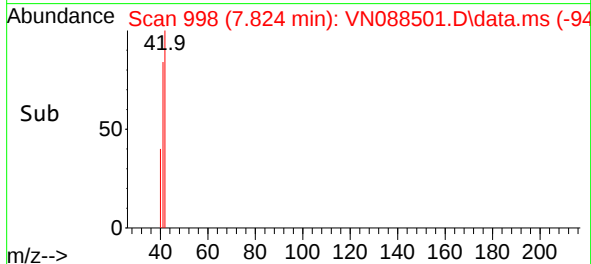
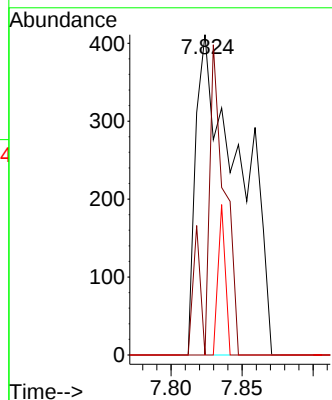


#29
Tetrahydrofuran
Concen: 0.545 ug/l
RT: 7.824 min Scan# 998
Delta R.T. 0.000 min
Lab File: VN088501.D
Acq: 10 Dec 2025 15:29

Instrument :
MSVOA_N
ClientSampleId :

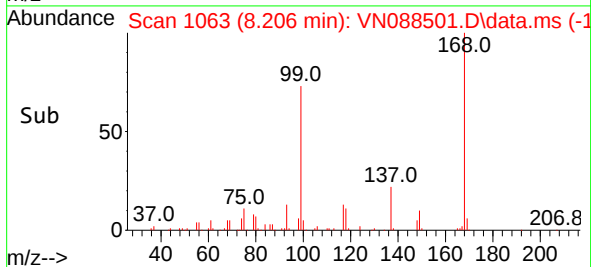
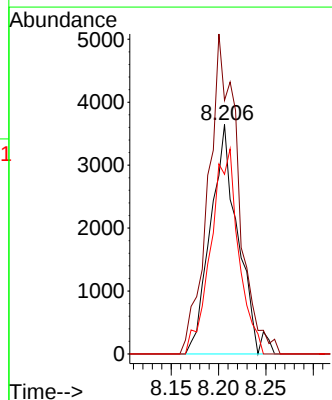
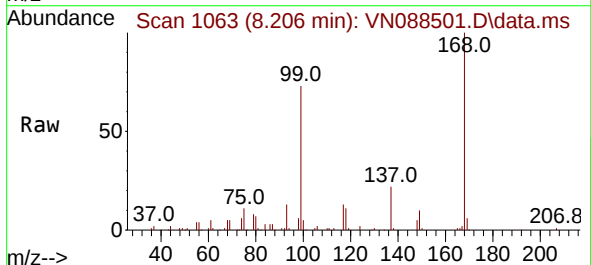


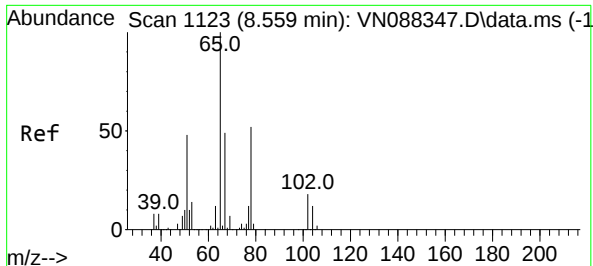
Tgt Ion:	42	Resp:	871
Ion Ratio	Lower	Upper	
42	100		
72	39.6	32.2	48.4
71	7.8	31.1	46.7#



#31
Cyclohexane
Concen: 1.463 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.029 min
Lab File: VN088501.D
Acq: 10 Dec 2025 15:29

Tgt Ion:	56	Resp:	7372
Ion Ratio	Lower	Upper	
56	100		
69	110.5	25.3	37.9#
84	78.3	65.4	98.2





#33

1,2-Dichloroethane-d4

Concen: 58.934 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. 0.000 min

Lab File: VN088501.D

Acq: 10 Dec 2025 15:29

Instrument :

MSVOA_N

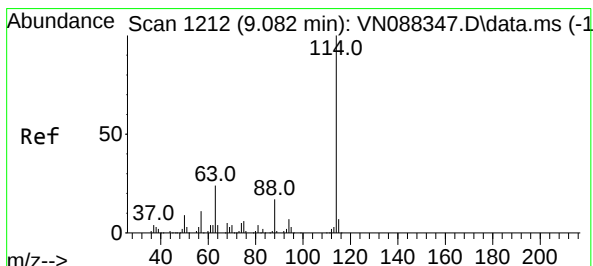
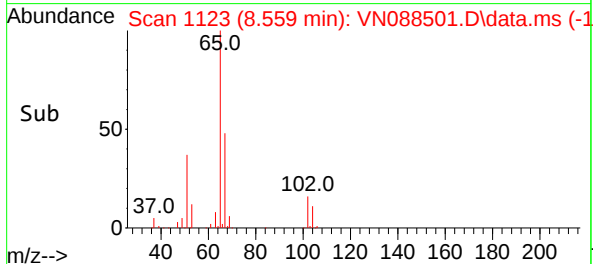
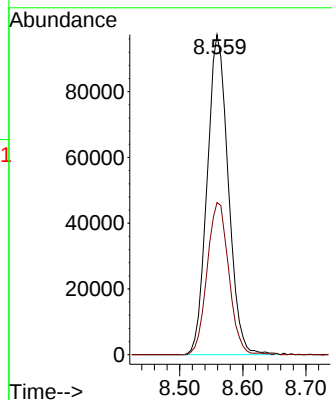
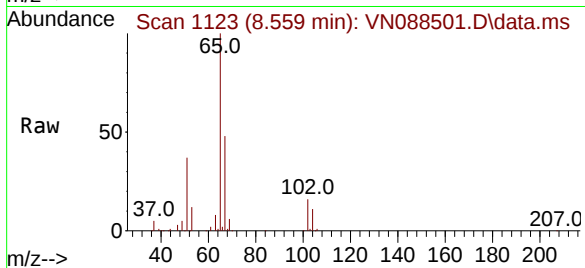
ClientSampleId :

Tgt Ion: 65 Resp: 225858

Ion Ratio Lower Upper

65 100

67 48.8 0.0 100.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.083 min Scan# 1212

Delta R.T. 0.000 min

Lab File: VN088501.D

Acq: 10 Dec 2025 15:29

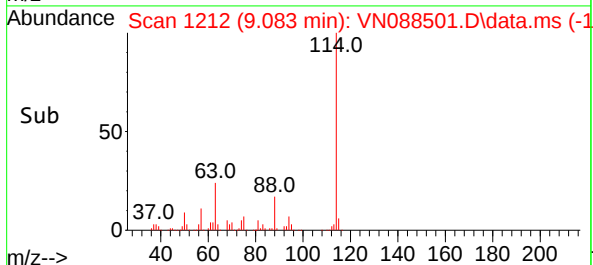
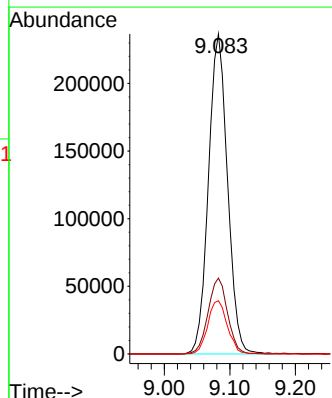
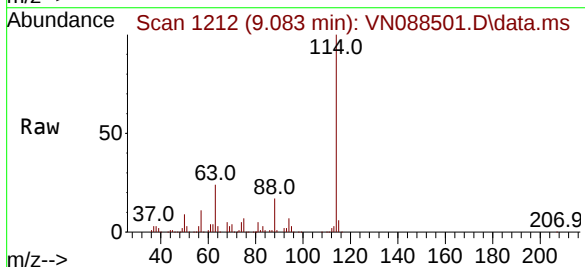
Tgt Ion: 114 Resp: 477666

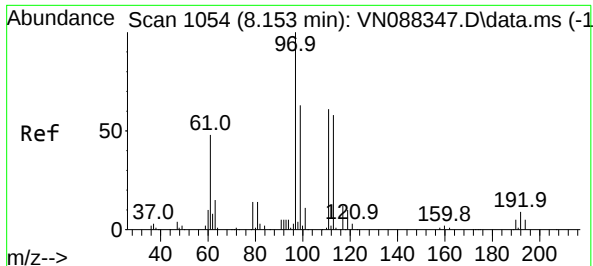
Ion Ratio Lower Upper

114 100

63 23.7 0.0 49.0

88 16.7 0.0 34.0





#35

Dibromofluoromethane

Concen: 48.547 ug/l

RT: 8.147 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN088501.D

Acq: 10 Dec 2025 15:29

Instrument :

MSVOA_N

ClientSampleId :

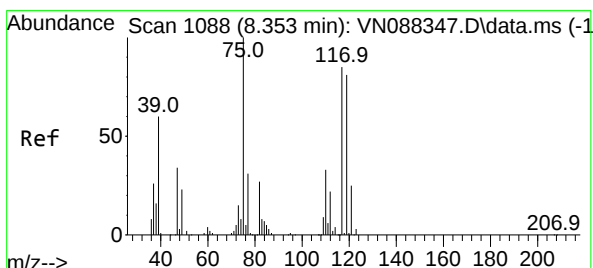
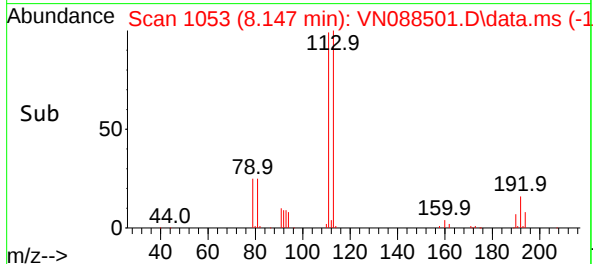
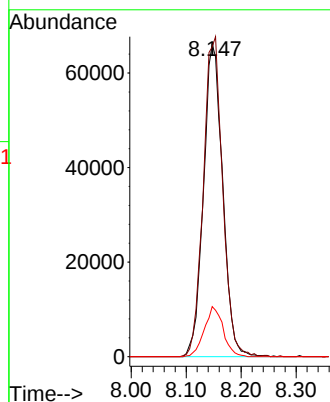
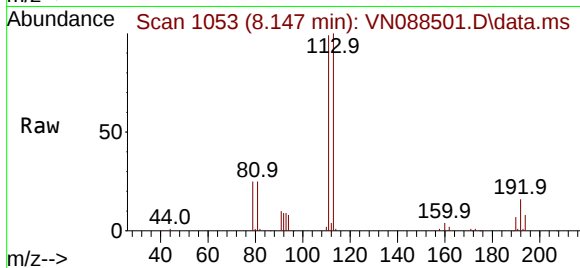
Tgt Ion:113 Resp: 160701

Ion Ratio Lower Upper

113 100

111 102.7 82.5 123.7

192 15.7 12.8 19.2



#36

1,1-Dichloropropene

Concen: 4.470 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.147 min

Lab File: VN088501.D

Acq: 10 Dec 2025 15:29

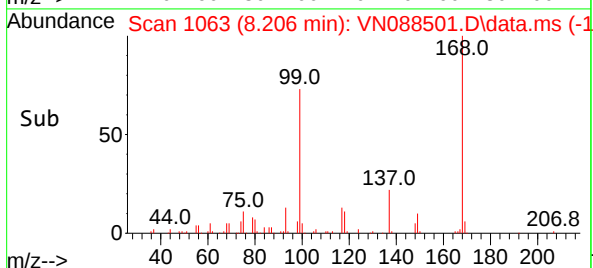
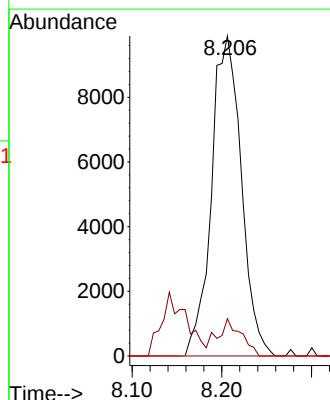
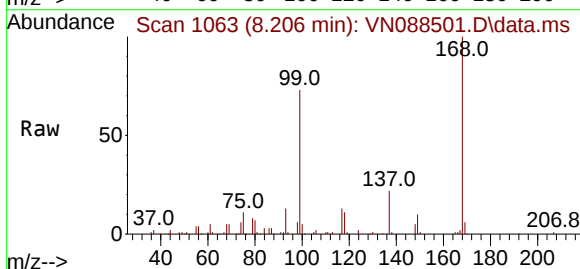
Tgt Ion: 75 Resp: 22834

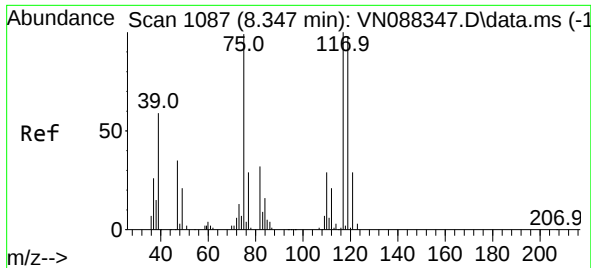
Ion Ratio Lower Upper

75 100

110 9.1 15.8 47.4#

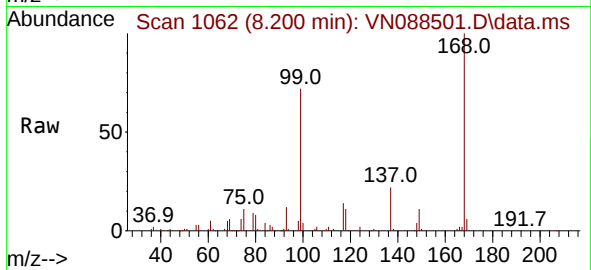
77 0.0 24.2 36.2#



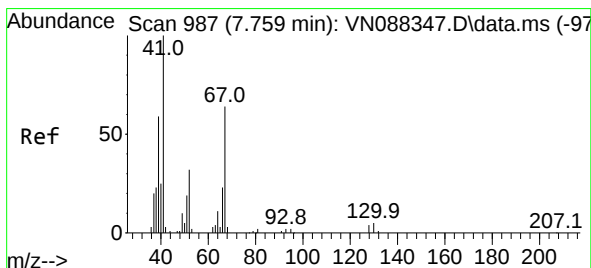
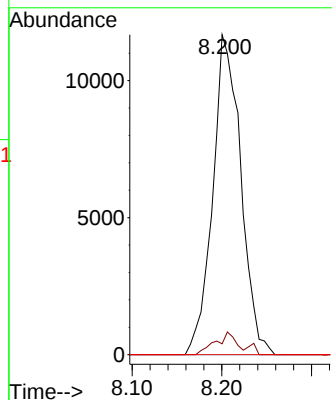
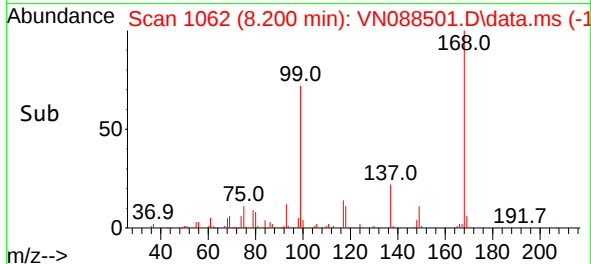


#38
Carbon Tetrachloride
Concen: 4.986 ug/l
RT: 8.200 min Scan# 117
Delta R.T. -0.147 min
Lab File: VN088501.D
Acq: 10 Dec 2025 15:29

Instrument :
MSVOA_N
ClientSampleId :

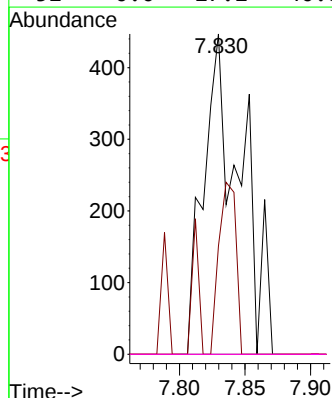
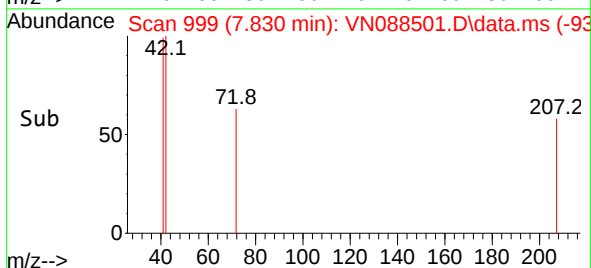
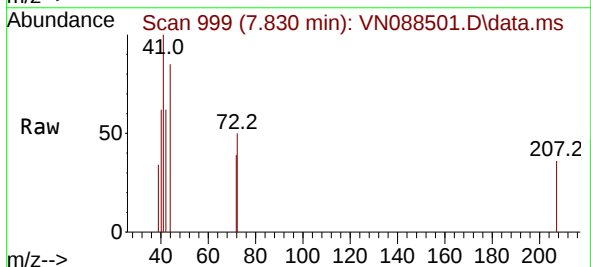


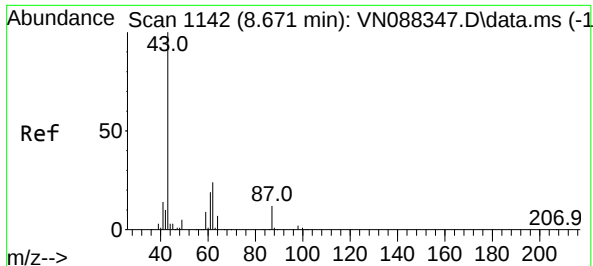
Tgt Ion: 117 Resp: 25355
Ion Ratio Lower Upper
117 100
119 3.4 78.2 117.4#
121 0.0 23.4 35.2#



#41
Methacrylonitrile
Concen: 0.265 ug/l
RT: 7.830 min Scan# 999
Delta R.T. 0.071 min
Lab File: VN088501.D
Acq: 10 Dec 2025 15:29

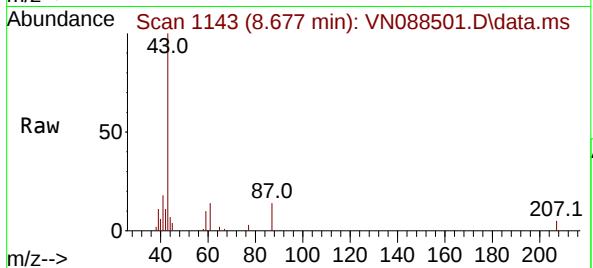
Tgt Ion: 41 Resp: 883
Ion Ratio Lower Upper
41 100
39 24.7 46.3 69.5#
67 0.0 54.7 82.1#
52 0.0 27.2 40.8#



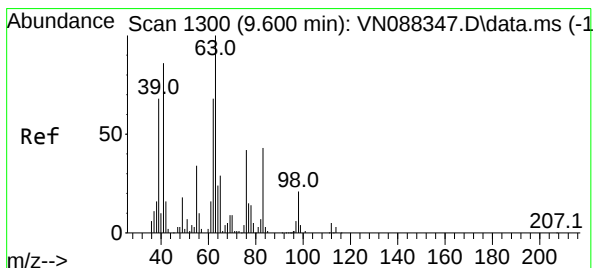
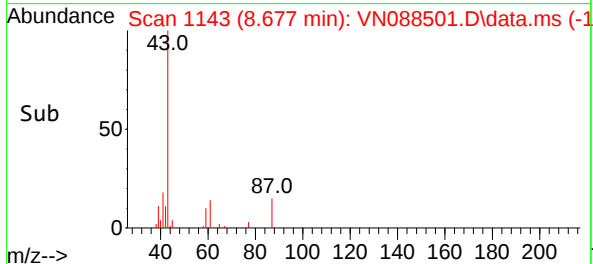
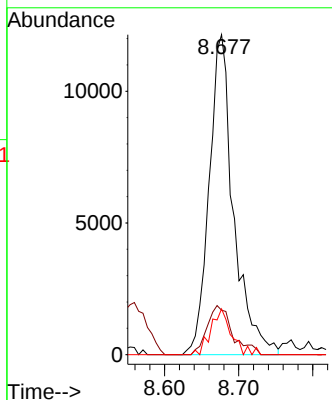


#43
Isopropyl Acetate
Concen: 2.711 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. 0.006 min
Lab File: VN088501.D
Acq: 10 Dec 2025 15:29

Instrument :
MSVOA_N
ClientSampleId :

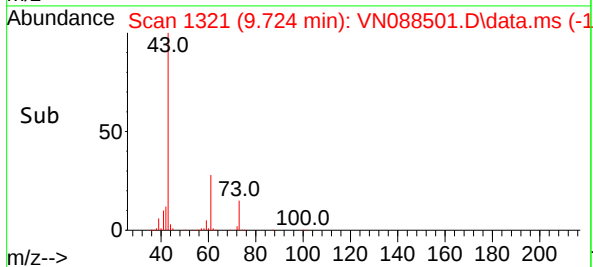
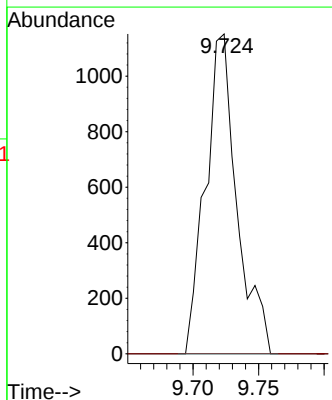
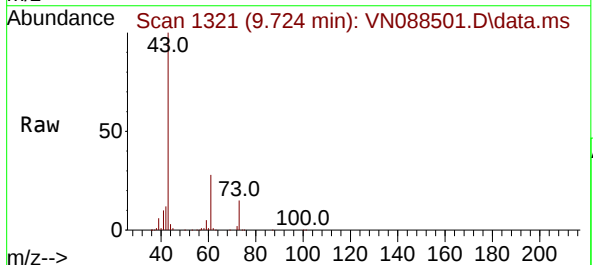


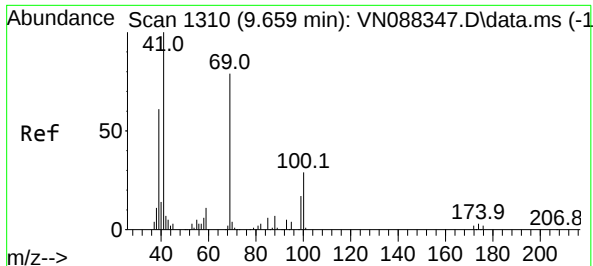
Tgt Ion: 43 Resp: 27822
Ion Ratio Lower Upper
43 100
61 15.9 18.7 28.1#
87 12.1 9.1 13.7



#45
1,2-Dichloropropane
Concen: 0.499 ug/l
RT: 9.724 min Scan# 1321
Delta R.T. 0.124 min
Lab File: VN088501.D
Acq: 10 Dec 2025 15:29

Tgt Ion: 63 Resp: 1916
Ion Ratio Lower Upper
63 100
65 0.0 23.0 34.4#





#48

Methyl methacrylate

Concen: 30.039 ug/l

RT: 9.724 min Scan# 1

Delta R.T. 0.065 min

Lab File: VN088501.D

Acq: 10 Dec 2025 15:29

Instrument :

MSVOA_N

ClientSampleId :

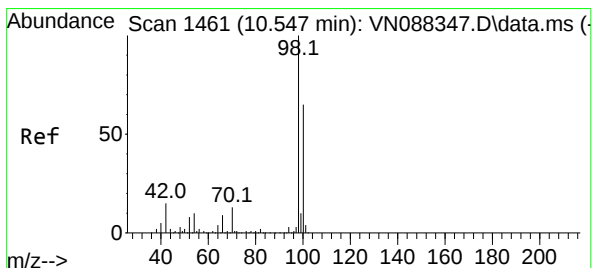
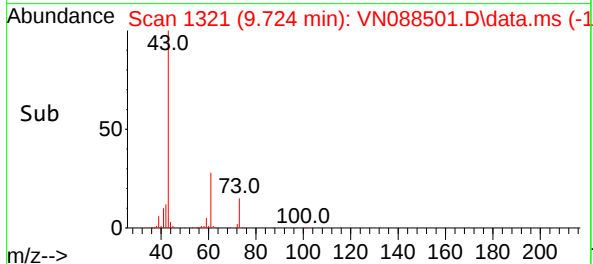
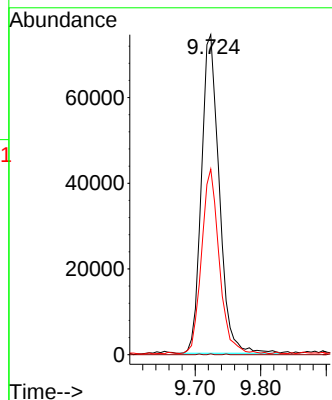
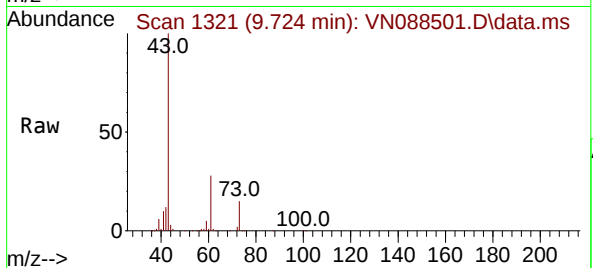
Tgt Ion: 41 Resp: 140666

Ion Ratio Lower Upper

41 100

69 0.0 62.4 93.6#

39 57.4 52.6 79.0



#50

Toluene-d8

Concen: 47.145 ug/l

RT: 10.541 min Scan# 1460

Delta R.T. -0.006 min

Lab File: VN088501.D

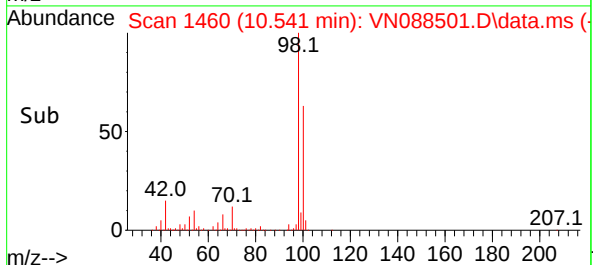
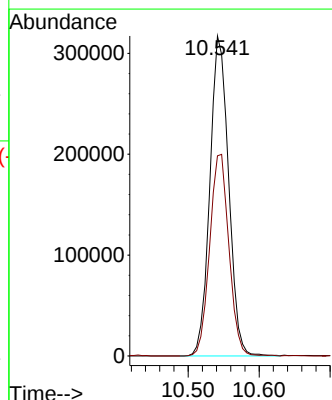
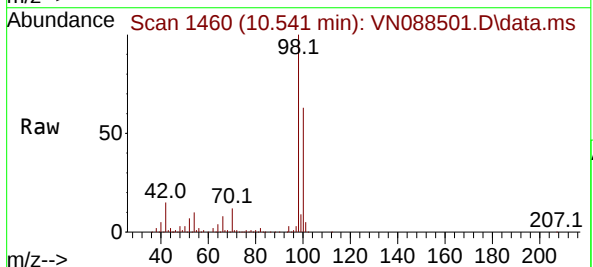
Acq: 10 Dec 2025 15:29

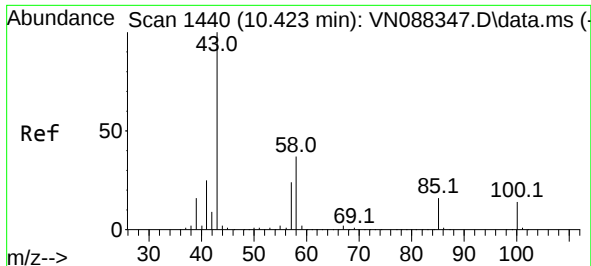
Tgt Ion: 98 Resp: 580660

Ion Ratio Lower Upper

98 100

100 64.7 52.2 78.2

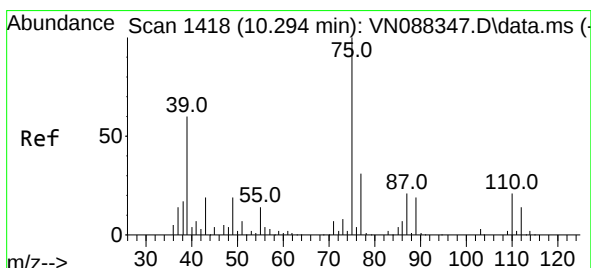
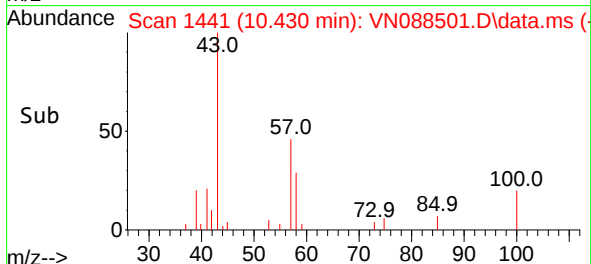
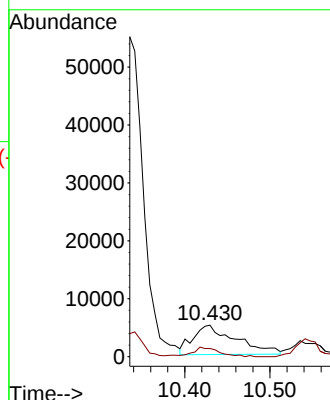
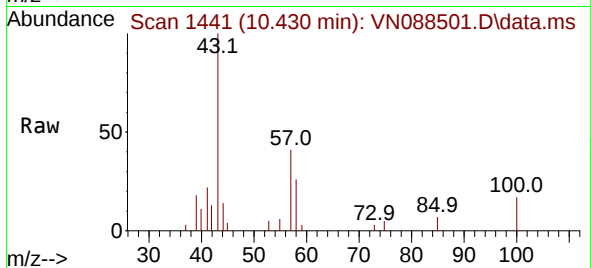




#51
4-Methyl-2-Pentanone
Concen: 2.952 ug/l
RT: 10.430 min Scan# 1440
Delta R.T. 0.006 min
Lab File: VN088501.D
Acq: 10 Dec 2025 15:29

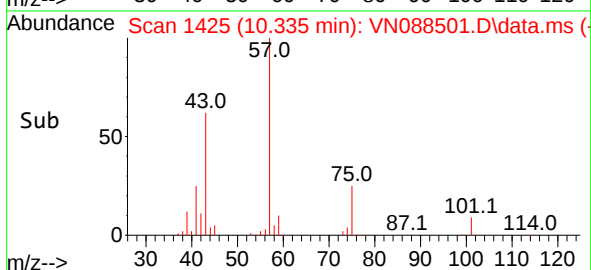
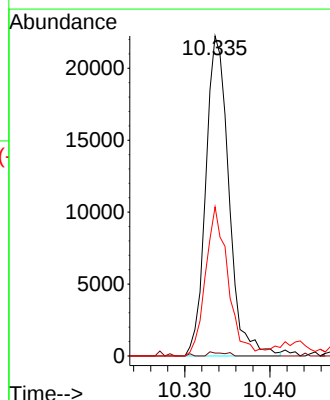
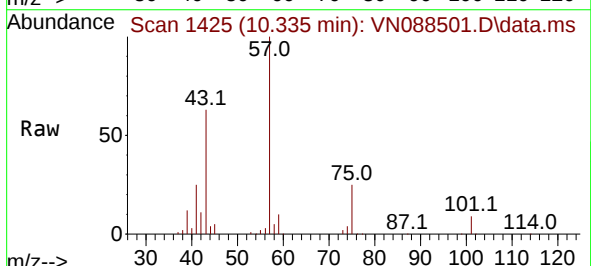
Instrument :
MSVOA_N
ClientSampleId :

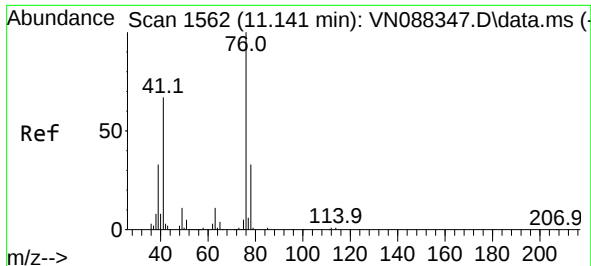
Tgt Ion: 43 Resp: 17856
Ion Ratio Lower Upper
43 100
58 20.3 29.1 43.7#



#54
cis-1,3-Dichloropropene
Concen: 6.946 ug/l
RT: 10.335 min Scan# 1425
Delta R.T. 0.041 min
Lab File: VN088501.D
Acq: 10 Dec 2025 15:29

Tgt Ion: 75 Resp: 41945
Ion Ratio Lower Upper
75 100
77 0.9 24.5 36.7#
39 46.6 48.3 72.5#





#57

1,3-Dichloropropane

Concen: 0.589 ug/l

RT: 11.188 min Scan# 1570

Delta R.T. 0.047 min

Lab File: VN088501.D

Acq: 10 Dec 2025 15:29

Instrument :

MSVOA_N

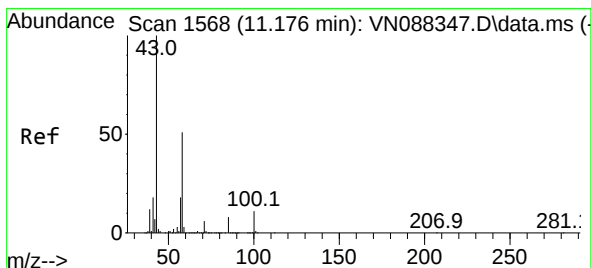
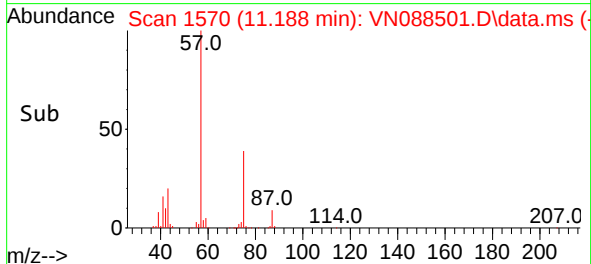
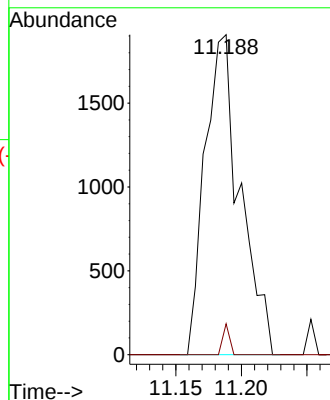
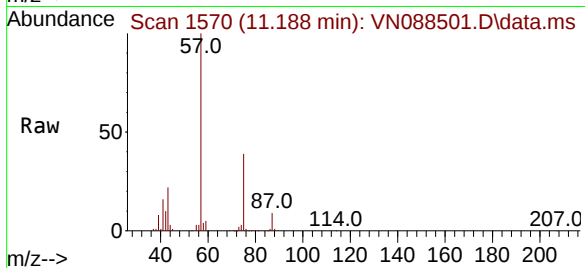
ClientSampleId :

Tgt Ion: 76 Resp: 3559

Ion Ratio Lower Upper

76 100

78 1.8 26.2 39.4#



#59

2-Hexanone

Concen: 18.064 ug/l

RT: 11.182 min Scan# 1569

Delta R.T. 0.006 min

Lab File: VN088501.D

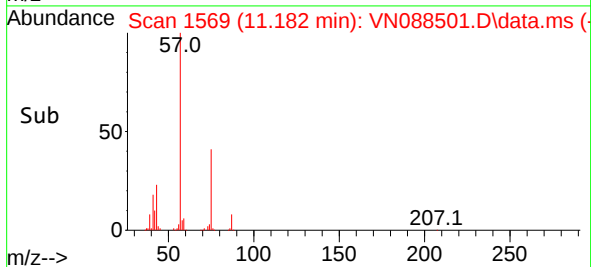
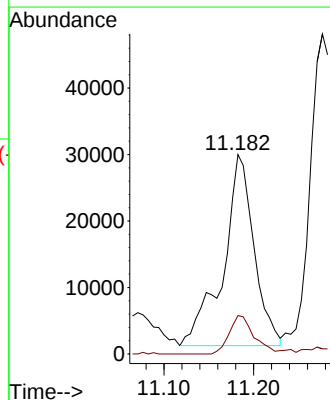
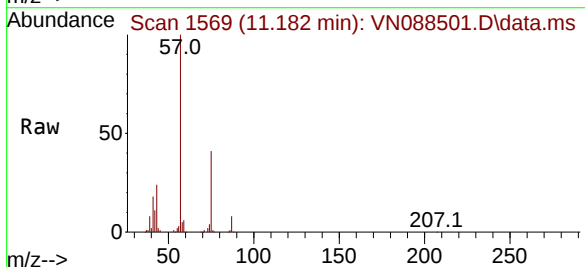
Acq: 10 Dec 2025 15:29

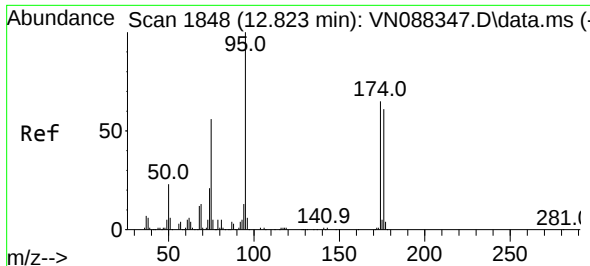
Tgt Ion: 43 Resp: 68839

Ion Ratio Lower Upper

43 100

58 16.2 25.3 75.9#

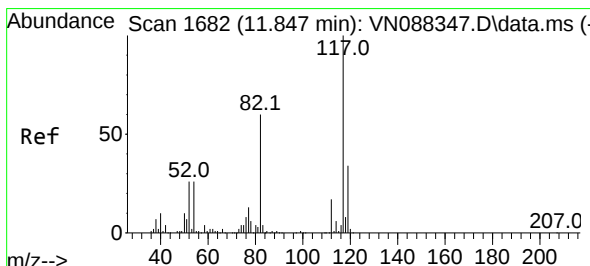
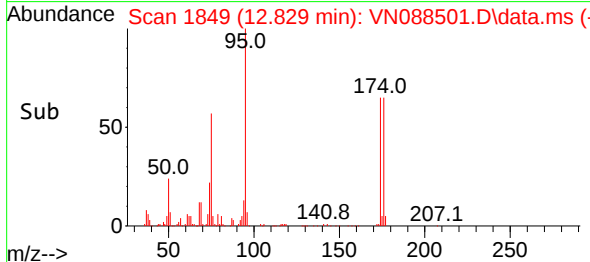
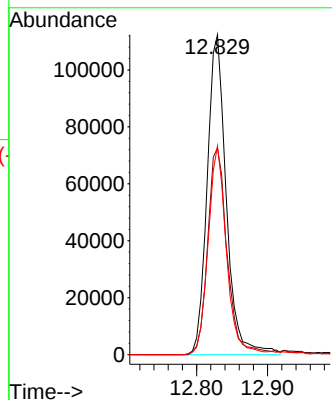
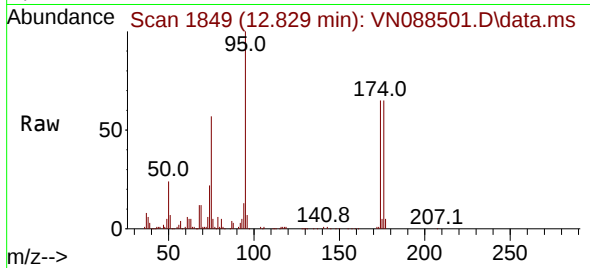




#62
4-Bromofluorobenzene
Concen: 49.788 ug/l
RT: 12.829 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN088501.D
Acq: 10 Dec 2025 15:29

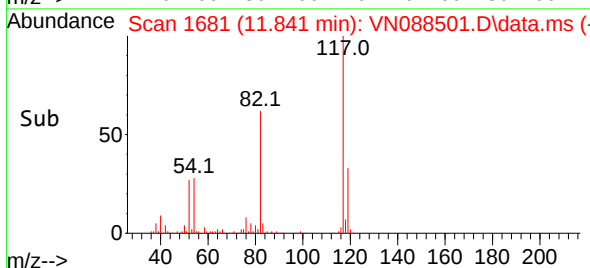
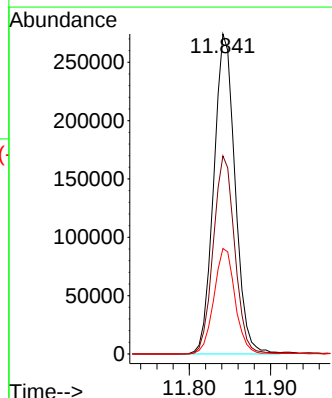
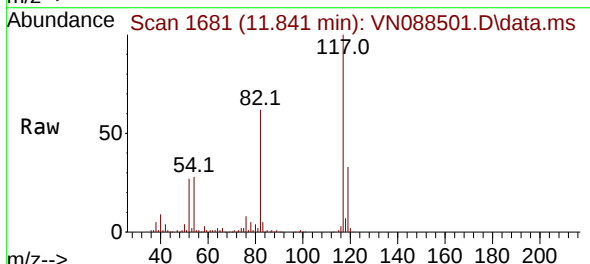
Instrument :
MSVOA_N
ClientSampleId :

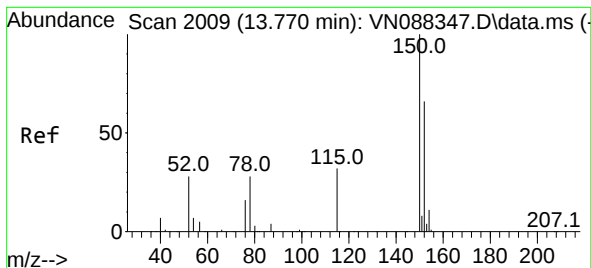
Tgt Ion: 95 Resp: 210405
Ion Ratio Lower Upper
95 100
174 65.7 0.0 139.0
176 63.6 0.0 132.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. -0.006 min
Lab File: VN088501.D
Acq: 10 Dec 2025 15:29

Tgt Ion: 117 Resp: 501169
Ion Ratio Lower Upper
117 100
82 61.9 47.8 71.8
119 33.0 26.9 40.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.771 min Scan# 20

Delta R.T. 0.000 min

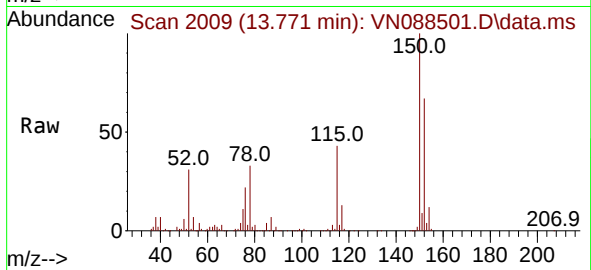
Lab File: VN088501.D

Acq: 10 Dec 2025 15:29

Instrument :

MSVOA_N

ClientSampleId :



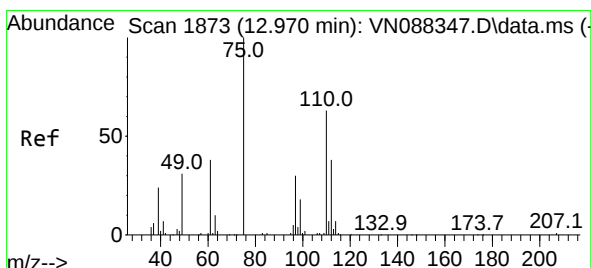
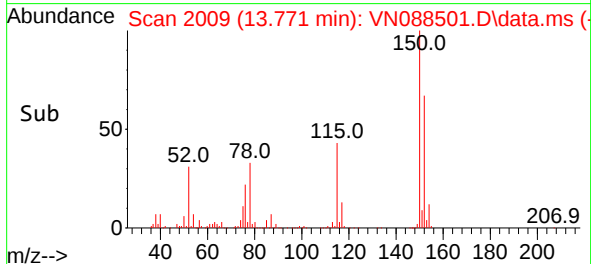
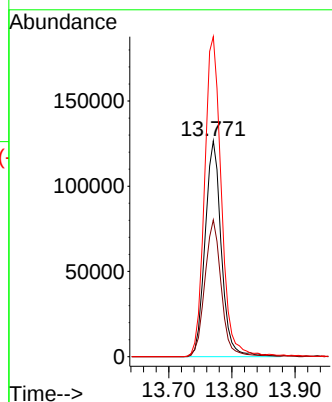
Tgt Ion:152 Resp: 226784

Ion Ratio Lower Upper

152 100

115 64.1 33.0 98.9

150 152.5 0.0 349.0



#76

1,2,3-Trichloropropane

Concen: 23.405 ug/l

RT: 12.829 min Scan# 1849

Delta R.T. -0.141 min

Lab File: VN088501.D

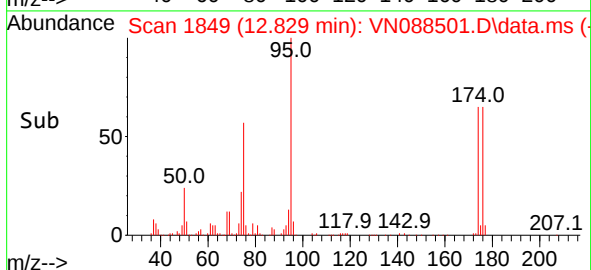
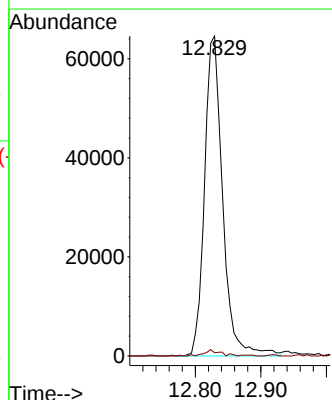
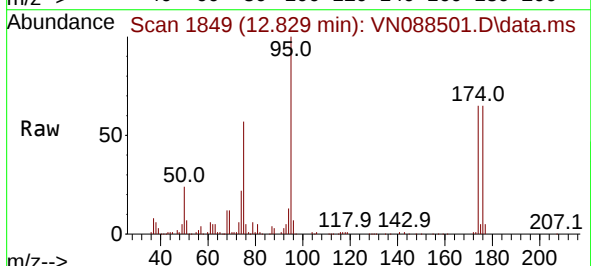
Acq: 10 Dec 2025 15:29

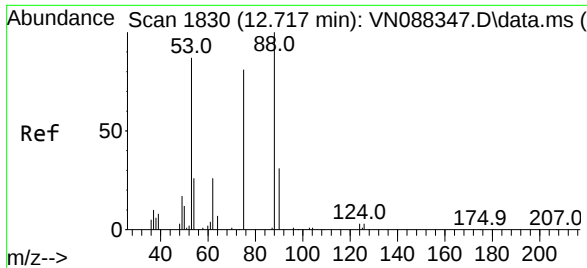
Tgt Ion: 75 Resp: 124320

Ion Ratio Lower Upper

75 100

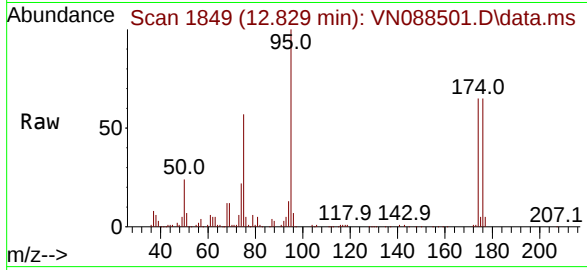
77 1.7 87.2 261.6#





#81
trans-1,4-Dichloro-2-butene
Concen: 66.399 ug/l
RT: 12.829 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN088501.D
Acq: 10 Dec 2025 15:29

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion: 75 Resp: 124320
Ion Ratio Lower Upper
75 100
53 0.3 92.2 138.4#
89 0.4 0.0 0.0#

