

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110625\
 Data File : VN088212.D
 Acq On : 06 Nov 2025 17:14
 Operator : JC\MD
 Sample : Q3560-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SY-10D

Quant Time: Nov 07 02:23:07 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 03 01:16:06 2025
 Response via : Initial Calibration

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

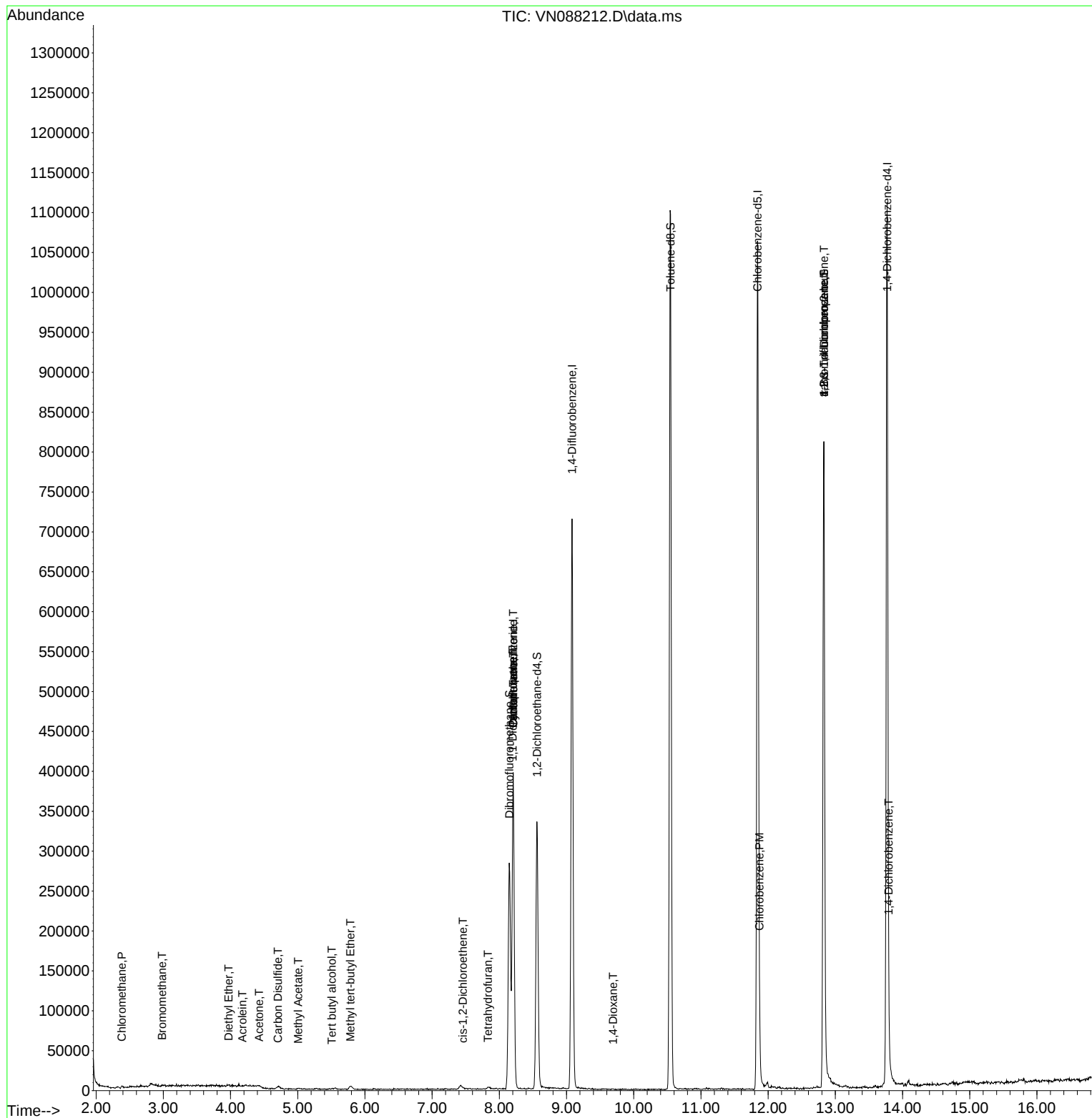
Internal Standards						
1) Pentafluorobenzene	8.206	168	253683	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	587927	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	574358	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.771	152	297689	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	274550	62.587	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 125.180%#			
35) Dibromofluoromethane	8.147	113	201642	51.052	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.100%			
50) Toluene-d8	10.547	98	761174	50.015	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.020%			
62) 4-Bromofluorobenzene	12.829	95	307824	57.272	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 114.540%			
Target Compounds					Qvalue	
3) Chloromethane	2.383	50	2381	0.707	ug/l	89
5) Bromomethane	2.983	94	619	0.282	ug/l	84
8) Diethyl Ether	3.971	74	709	0.326	ug/l	93
11) Tert butyl alcohol	5.506	59	396	0.524	ug/l #	79
13) Acrolein	4.177	56	280	0.329	ug/l #	46
16) Acetone	4.424	43	5919	2.686	ug/l #	83
17) Carbon Disulfide	4.706	76	3637	0.375	ug/l #	74
18) Methyl Acetate	5.006	43	1615	0.358	ug/l #	63
19) Methyl tert-butyl Ether	5.783	73	5697	0.487	ug/l #	83
27) cis-1,2-Dichloroethene	7.459	96	910	0.226	ug/l #	1
29) Tetrahydrofuran	7.830	42	1161	0.613	ug/l	95
31) Cyclohexane	8.206	56	7642	1.245	ug/l #	45
36) 1,1-Dichloropropene	8.200	75	25309	4.389	ug/l #	51
38) Carbon Tetrachloride	8.206	117	29483	4.950	ug/l #	15
49) 1,4-Dioxane	9.694	88	265	4.036	ug/l #	70
65) Chlorobenzene	11.871	112	23484	1.801	ug/l	94
76) 1,2,3-Trichloropropane	12.829	75	174028	25.569	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	174028	71.327	ug/l #	1
88) 1,4-Dichlorobenzene	13.794	146	5444	0.513	ug/l #	24

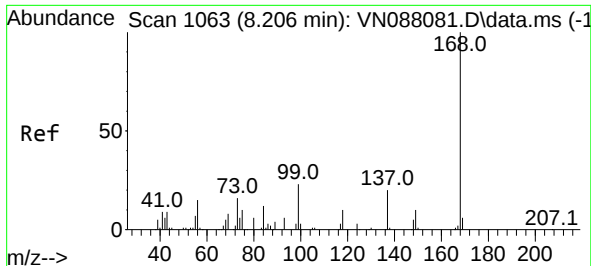
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_N
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Quant Time: Nov 07 02:23:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260
QLast Update : Mon Nov 03 01:16:06 2025
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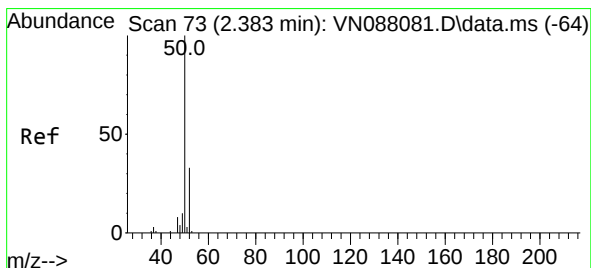
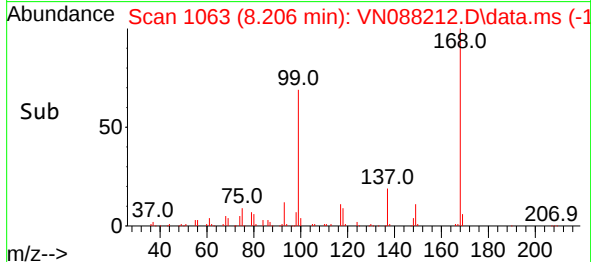
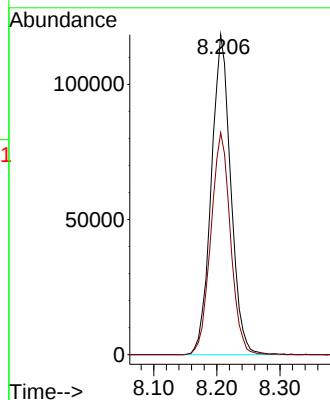
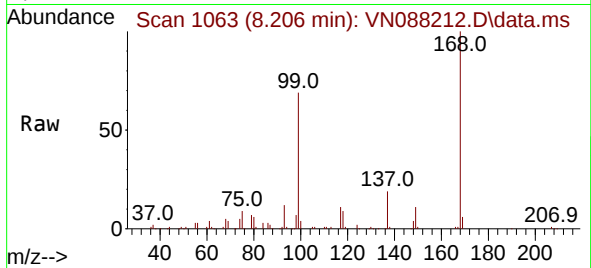




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN088212.D
Acq: 06 Nov 2025 17:14

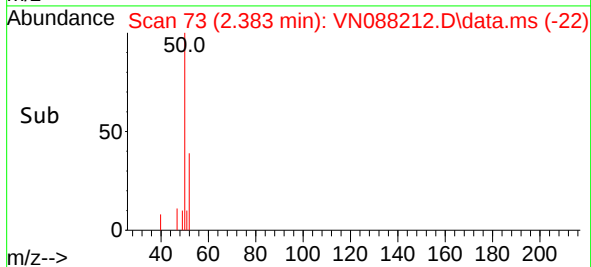
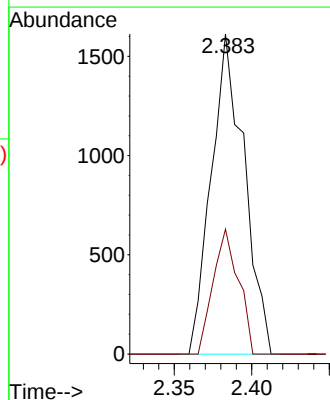
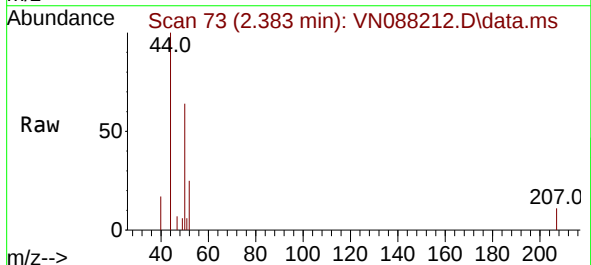
Instrument :
MSVOA_N
ClientSampleId :
SY-10D

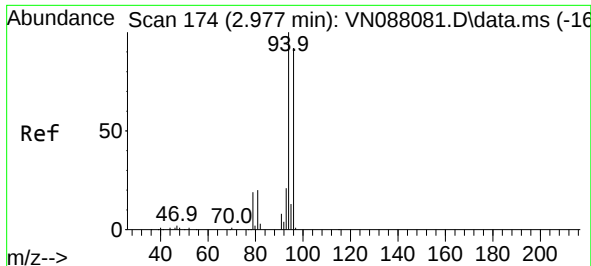
Tgt Ion:168 Resp: 253683
Ion Ratio Lower Upper
168 100
99 69.4 57.2 85.8



#3
Chloromethane
Concen: 0.707 ug/l
RT: 2.383 min Scan# 73
Delta R.T. 0.000 min
Lab File: VN088212.D
Acq: 06 Nov 2025 17:14

Tgt Ion: 50 Resp: 2381
Ion Ratio Lower Upper
50 100
52 39.0 26.2 39.4

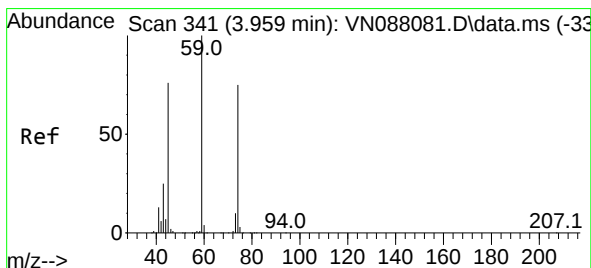
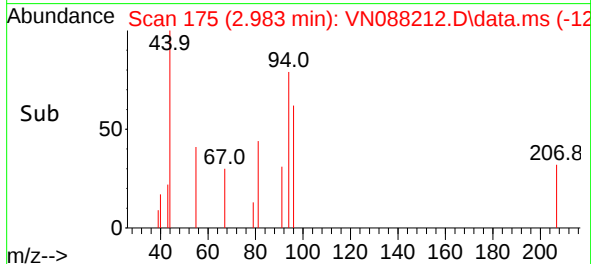
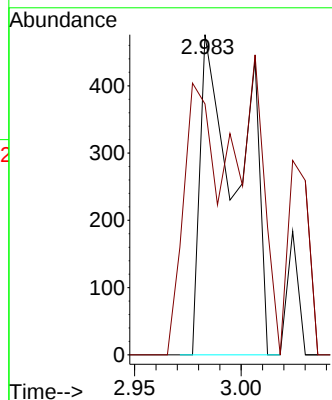
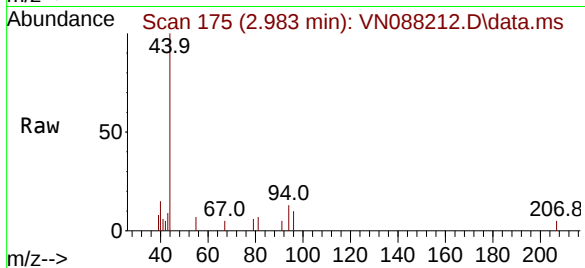




#5
Bromomethane
Concen: 0.282 ug/l
RT: 2.983 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN088212.D
Acq: 06 Nov 2025 17:14

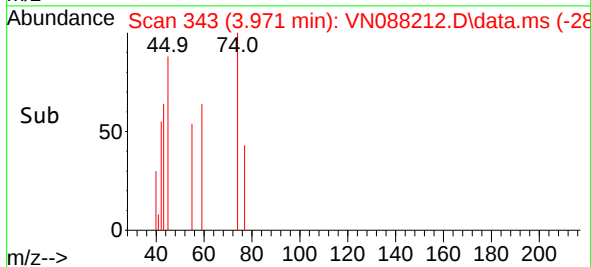
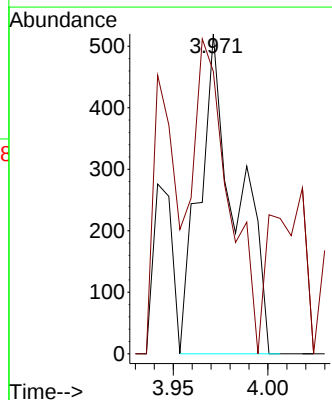
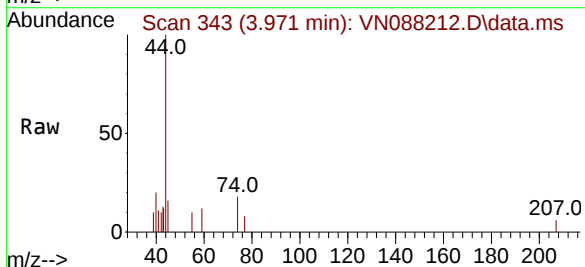
Instrument :
MSVOA_N
ClientSampleId :
SY-10D

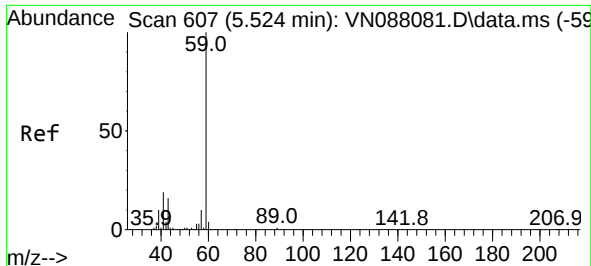
Tgt Ion: 94 Resp: 619
Ion Ratio Lower Upper
94 100
96 78.4 75.4 113.2



#8
Diethyl Ether
Concen: 0.326 ug/l
RT: 3.971 min Scan# 343
Delta R.T. 0.018 min
Lab File: VN088212.D
Acq: 06 Nov 2025 17:14

Tgt Ion: 74 Resp: 709
Ion Ratio Lower Upper
74 100
45 94.4 50.6 151.9

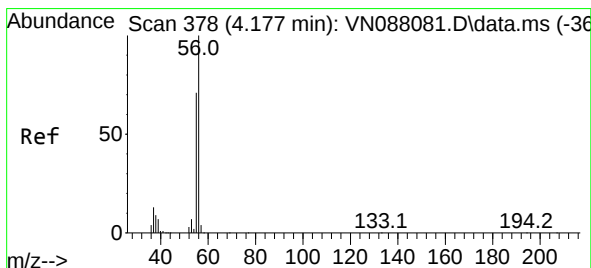
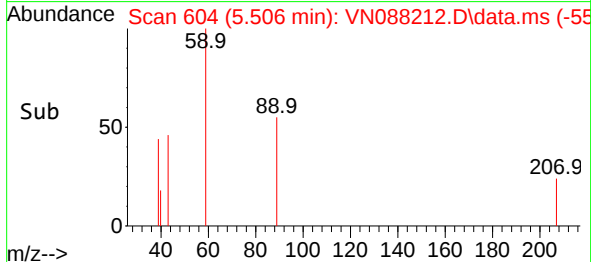
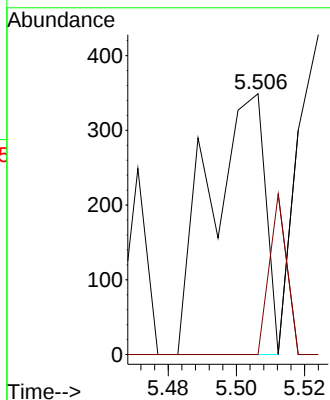
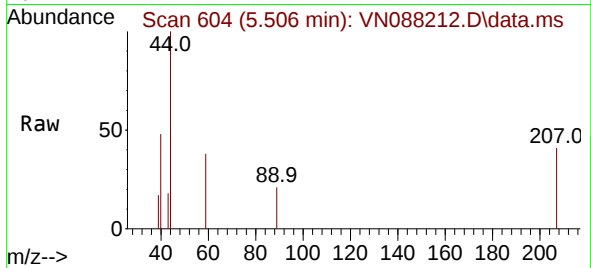




#11
Tert butyl alcohol
Concen: 0.524 ug/l
RT: 5.506 min Scan# 607
Delta R.T. -0.012 min
Lab File: VN088212.D
Acq: 06 Nov 2025 17:14

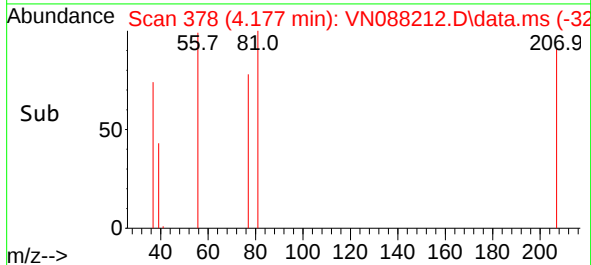
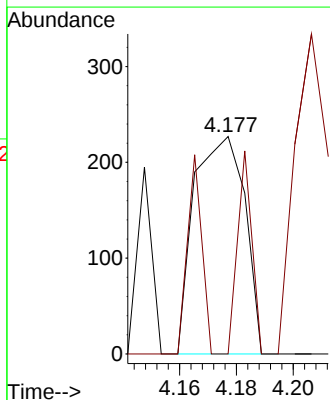
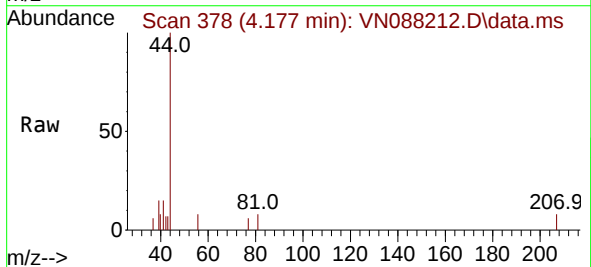
Instrument :
MSVOA_N
ClientSampleId :
SY-10D

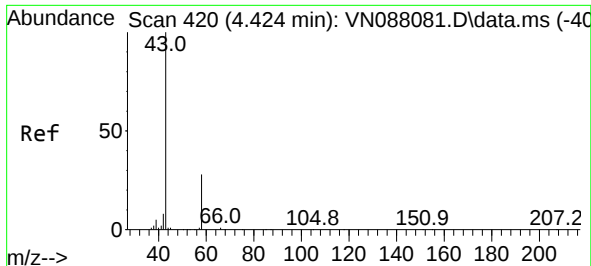
Tgt Ion: 59 Resp: 396
Ion Ratio Lower Upper
59 100
57 19.2 9.0 13.4#



#13
Acrolein
Concen: 0.329 ug/l
RT: 4.177 min Scan# 378
Delta R.T. 0.006 min
Lab File: VN088212.D
Acq: 06 Nov 2025 17:14

Tgt Ion: 56 Resp: 280
Ion Ratio Lower Upper
56 100
55 26.8 57.3 85.9#

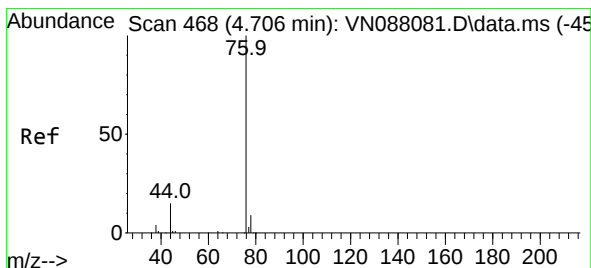
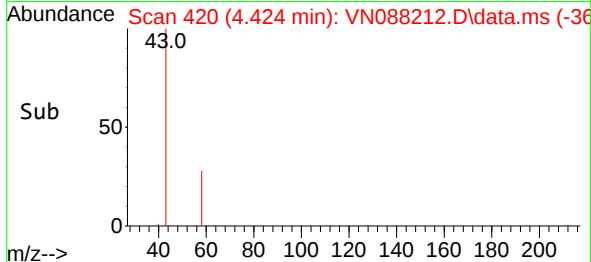
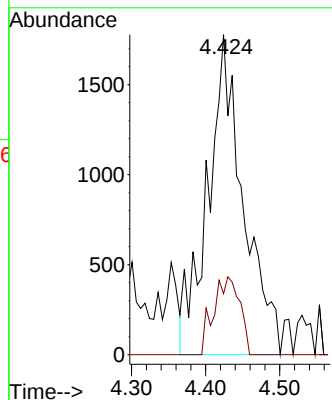
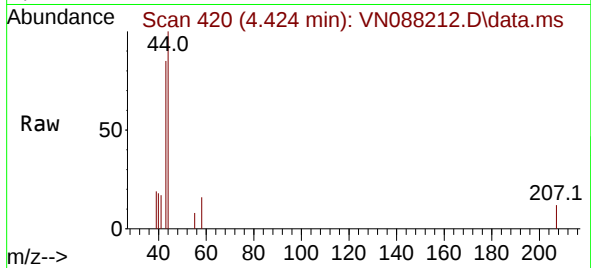




#16
Acetone
Concen: 2.686 ug/l
RT: 4.424 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN088212.D
Acq: 06 Nov 2025 17:14

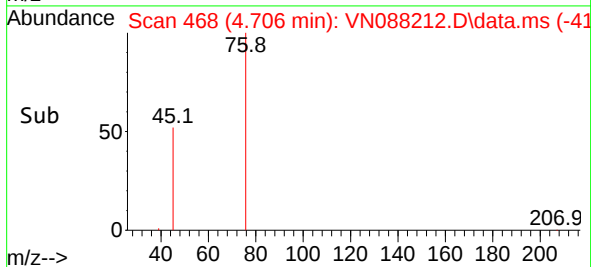
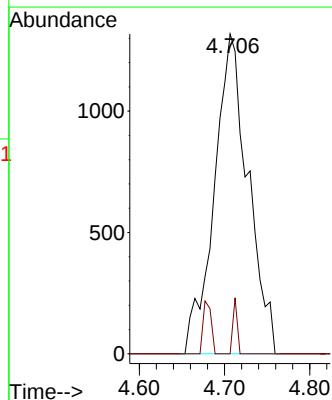
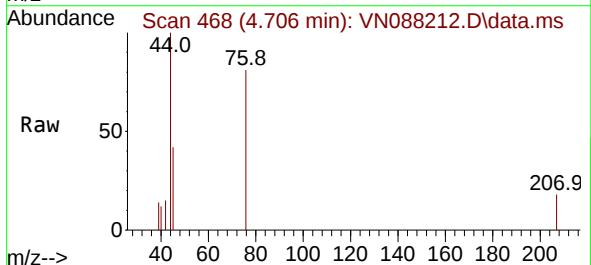
Instrument :
MSVOA_N
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SY-10D

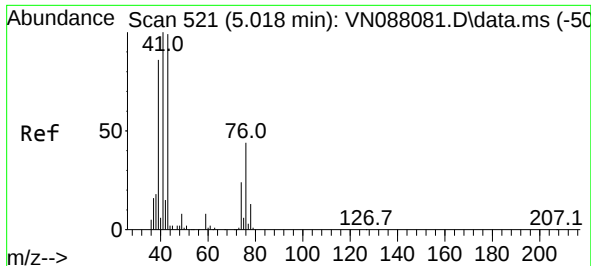
Tgt Ion: 43 Resp: 5919
Ion Ratio Lower Upper
43 100
58 19.1 22.6 33.8#



#17
Carbon Disulfide
Concen: 0.375 ug/l
RT: 4.706 min Scan# 468
Delta R.T. 0.006 min
Lab File: VN088212.D
Acq: 06 Nov 2025 17:14

Tgt Ion: 76 Resp: 3637
Ion Ratio Lower Upper
76 100
78 0.0 7.6 11.4#

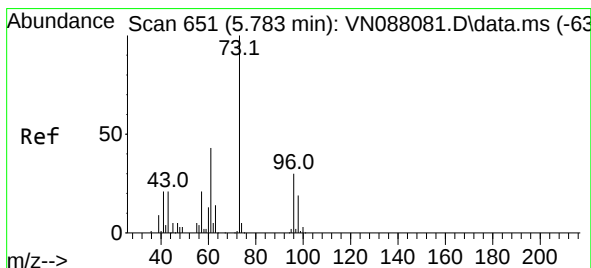
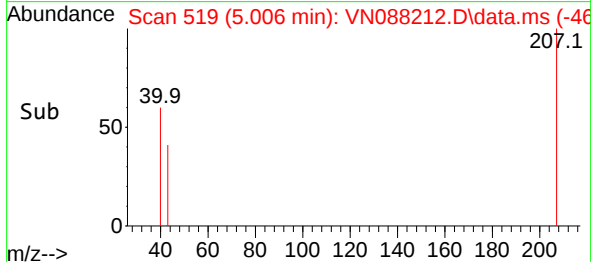
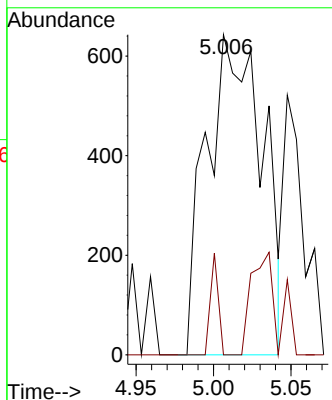
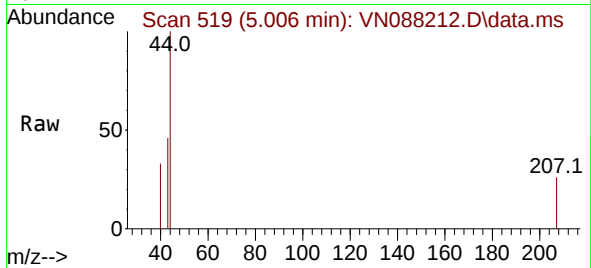




#18
Methyl Acetate
Concen: 0.358 ug/l
RT: 5.006 min Scan# 519
Delta R.T. -0.006 min
Lab File: VN088212.D
Acq: 06 Nov 2025 17:14

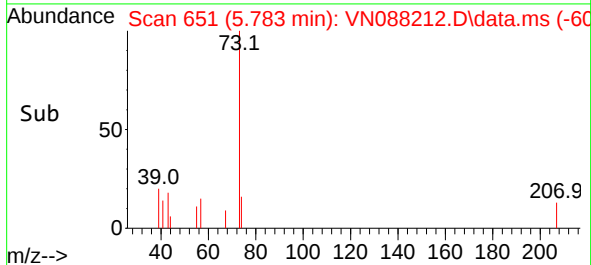
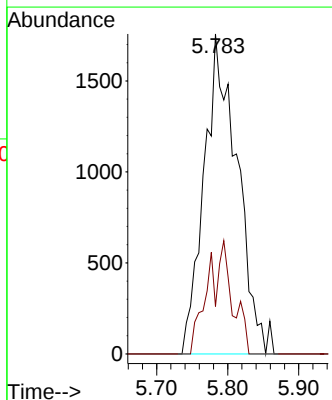
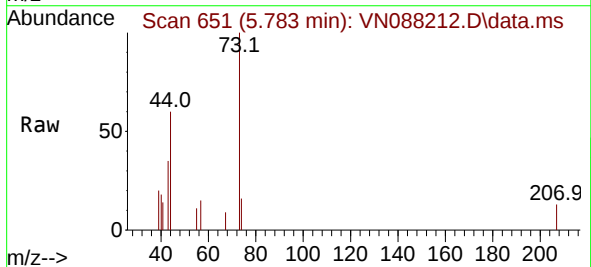
Instrument :
MSVOA_N
ClientSampleId :
SY-10D

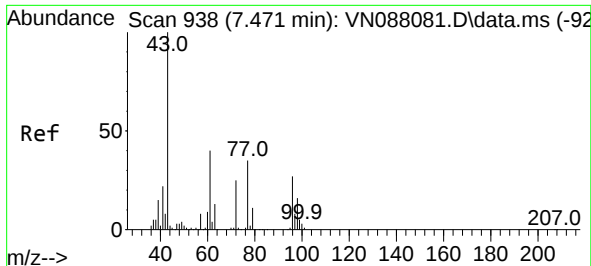
Tgt Ion: 43 Resp: 1615
Ion Ratio Lower Upper
43 100
74 4.5 17.6 26.4#



#19
Methyl tert-butyl Ether
Concen: 0.487 ug/l
RT: 5.783 min Scan# 651
Delta R.T. -0.006 min
Lab File: VN088212.D
Acq: 06 Nov 2025 17:14

Tgt Ion: 73 Resp: 5697
Ion Ratio Lower Upper
73 100
57 14.8 18.4 27.6#

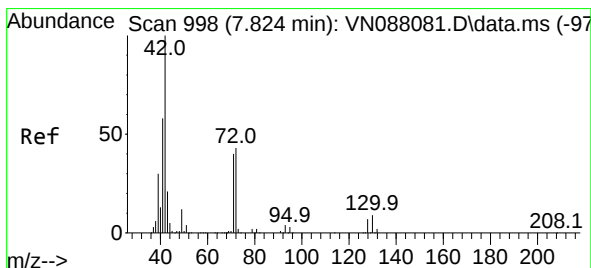
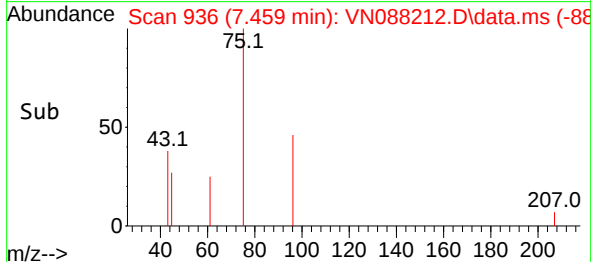
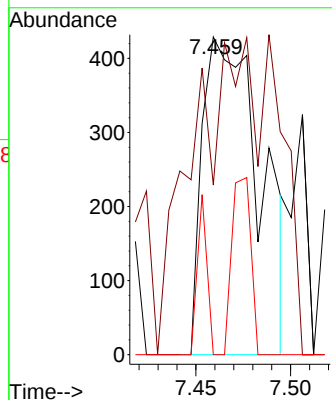
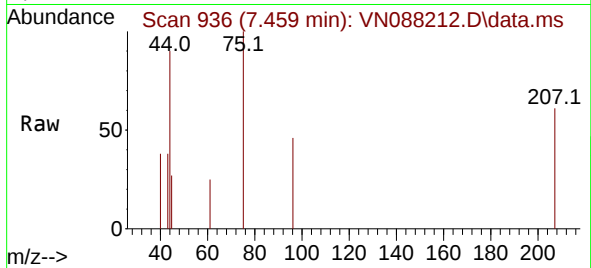




#27
 cis-1,2-Dichloroethene
 Concen: 0.226 ug/l
 RT: 7.459 min Scan# 910
 Delta R.T. -0.006 min
 Lab File: VN088212.D
 Acq: 06 Nov 2025 17:14

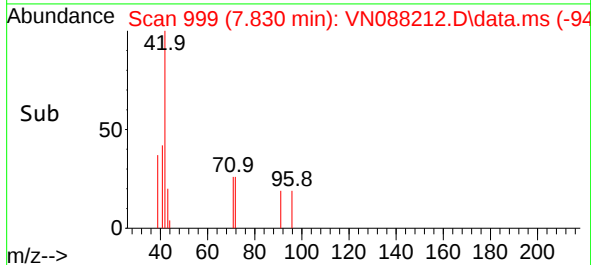
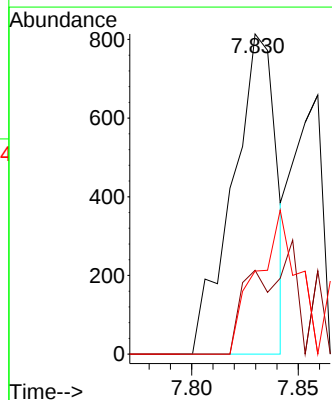
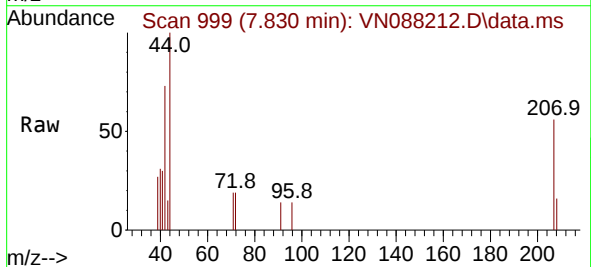
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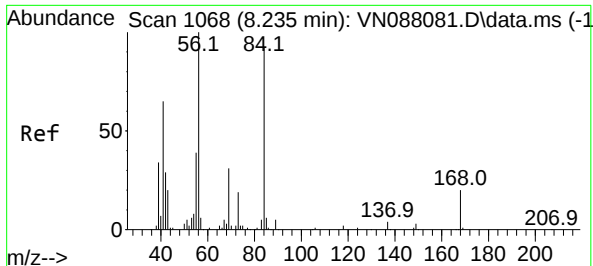
Tgt Ion: 96 Resp: 910
 Ion Ratio Lower Upper
 96 100
 61 0.0 0.0 301.8
 98 8.4 0.0 126.2



#29
 Tetrahydrofuran
 Concen: 0.613 ug/l
 RT: 7.830 min Scan# 999
 Delta R.T. 0.006 min
 Lab File: VN088212.D
 Acq: 06 Nov 2025 17:14

Tgt Ion: 42 Resp: 1161
 Ion Ratio Lower Upper
 42 100
 72 37.9 33.7 50.5
 71 41.3 31.9 47.9

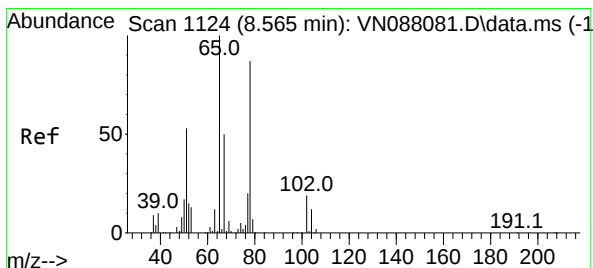
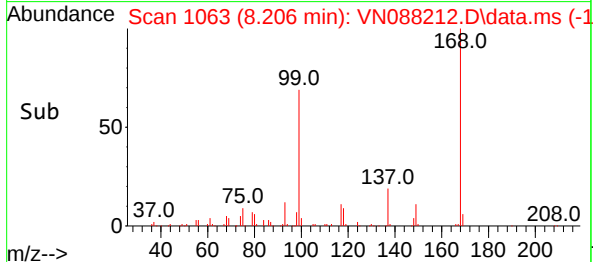
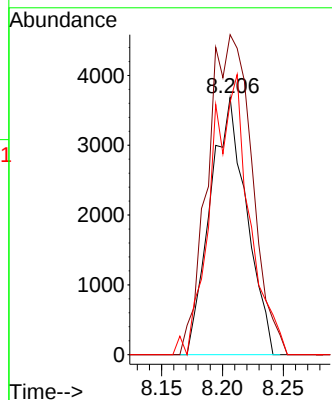
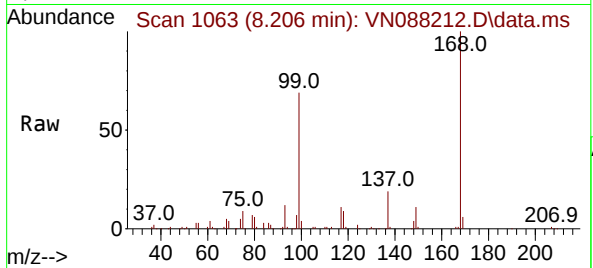




#31
Cyclohexane
Concen: 1.245 ug/l
RT: 8.206 min Scan# 1106
Delta R.T. -0.029 min
Lab File: VN088212.D
Acq: 06 Nov 2025 17:14

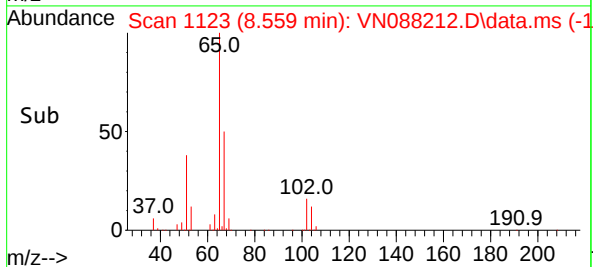
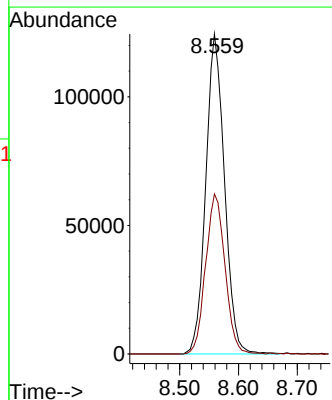
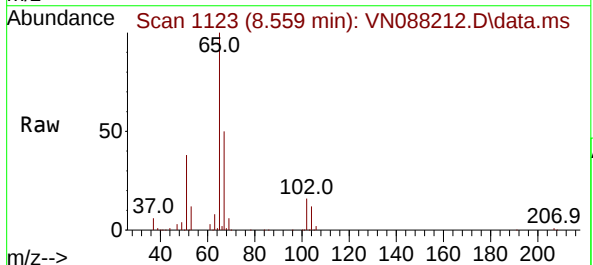
Instrument :
MSVOA_N
ClientSampleId :
SY-10D

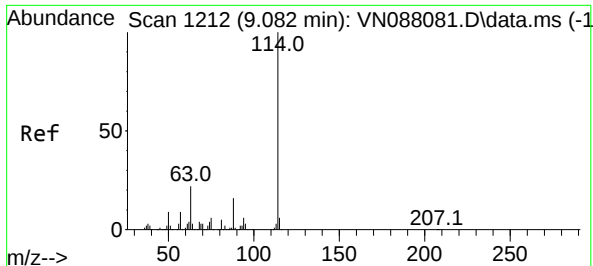
Tgt Ion: 56 Resp: 7642
Ion Ratio Lower Upper
56 100
69 124.4 23.7 35.5#
84 91.0 64.7 97.1



#33
1,2-Dichloroethane-d4
Concen: 62.587 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. 0.000 min
Lab File: VN088212.D
Acq: 06 Nov 2025 17:14

Tgt Ion: 65 Resp: 274550
Ion Ratio Lower Upper
65 100
67 51.8 0.0 100.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.083 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN088212.D

Acq: 06 Nov 2025 17:14

Instrument :

MSVOA_N

ClientSampleId :

SY-10D

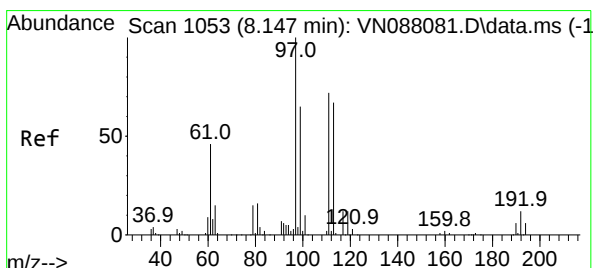
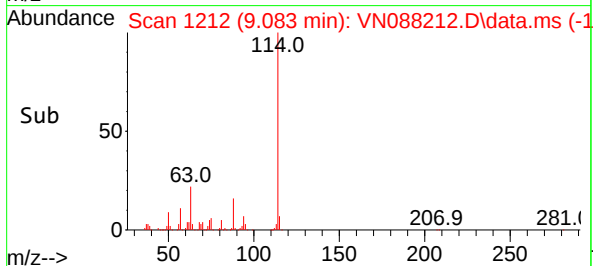
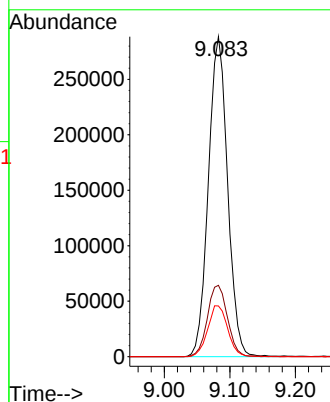
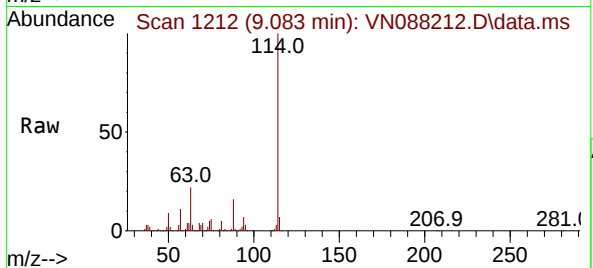
Tgt Ion:114 Resp: 587927

Ion Ratio Lower Upper

114 100

63 22.3 0.0 45.2

88 15.8 0.0 33.4



#35

Dibromofluoromethane

Concen: 51.052 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN088212.D

Acq: 06 Nov 2025 17:14

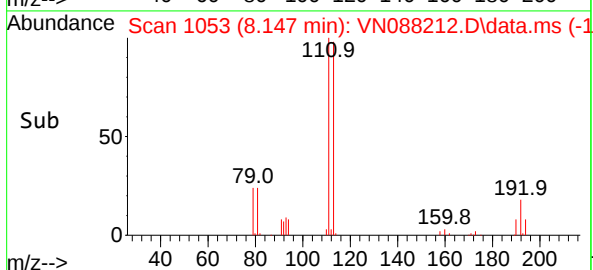
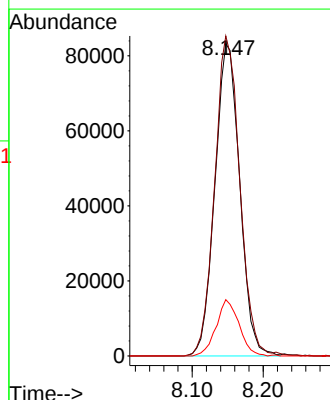
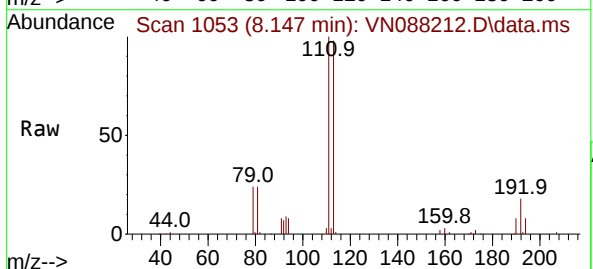
Tgt Ion:113 Resp: 201642

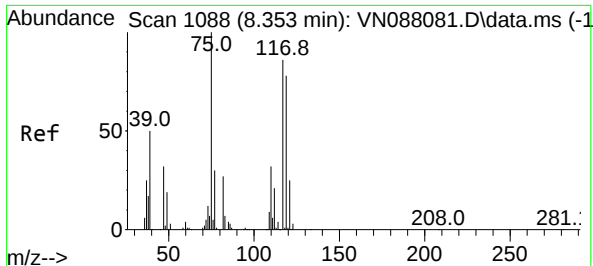
Ion Ratio Lower Upper

113 100

111 103.9 82.8 124.2

192 16.6 12.8 19.2

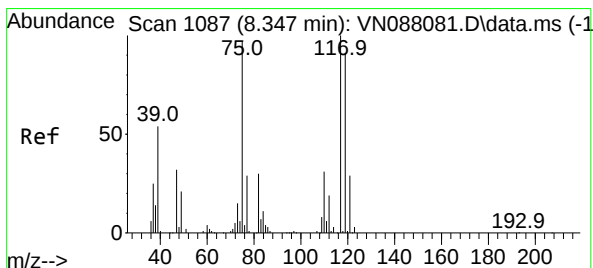
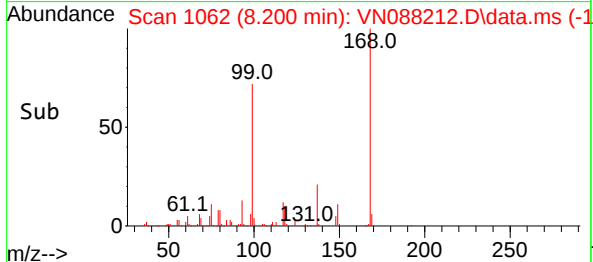
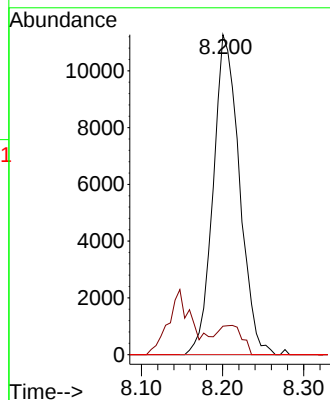
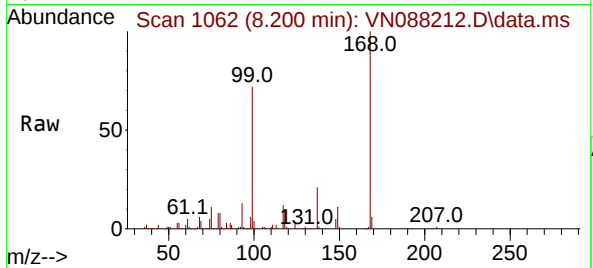




#36
1,1-Dichloropropene
Concen: 4.389 ug/l
RT: 8.200 min Scan# 1062
Delta R.T. -0.153 min
Lab File: VN088212.D
Acq: 06 Nov 2025 17:14

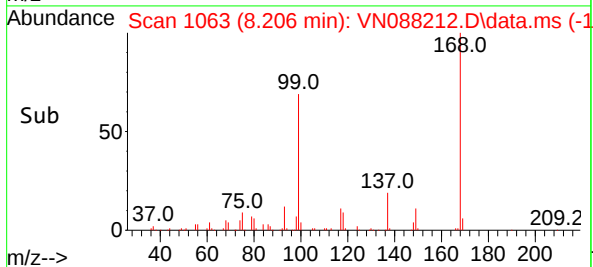
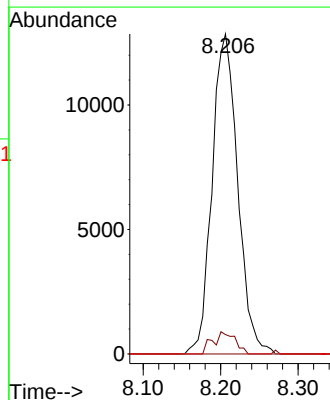
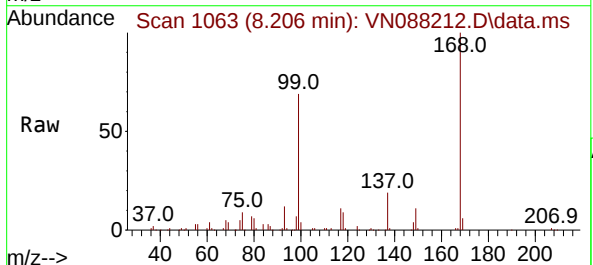
Instrument :
MSVOA_N
ClientSampleId :
SY-10D

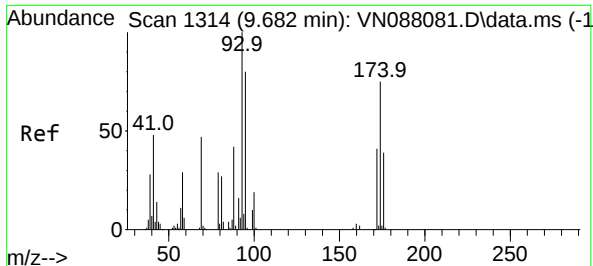
Tgt Ion: 75 Resp: 25309
Ion Ratio Lower Upper
75 100
110 8.2 15.9 47.6#
77 0.0 24.4 36.6#



#38
Carbon Tetrachloride
Concen: 4.950 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.135 min
Lab File: VN088212.D
Acq: 06 Nov 2025 17:14

Tgt Ion: 117 Resp: 29483
Ion Ratio Lower Upper
117 100
119 6.0 79.0 118.6#
121 0.0 25.0 37.6#





#49

1,4-Dioxane

Concen: 4.036 ug/l

RT: 9.694 min Scan# 11

Delta R.T. 0.012 min

Lab File: VN088212.D

Acq: 06 Nov 2025 17:14

Instrument :

MSVOA_N

ClientSampleId :

SY-10D

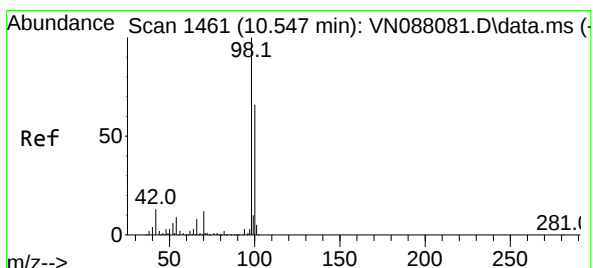
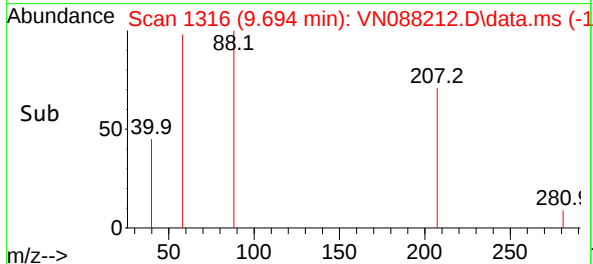
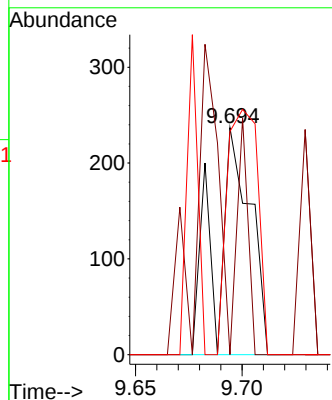
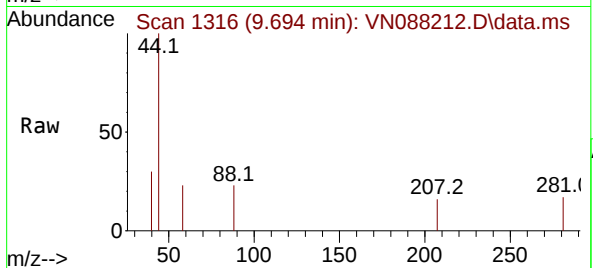
Tgt Ion: 88 Resp: 265

Ion Ratio Lower Upper

88 100

43 0.0 0.0 0.0

58 97.4 57.9 86.9#



#50

Toluene-d8

Concen: 50.015 ug/l

RT: 10.547 min Scan# 1461

Delta R.T. 0.000 min

Lab File: VN088212.D

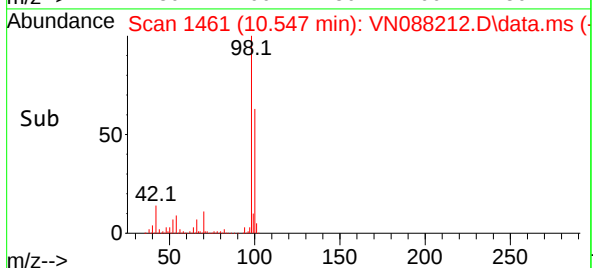
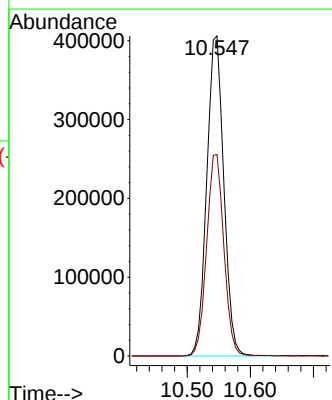
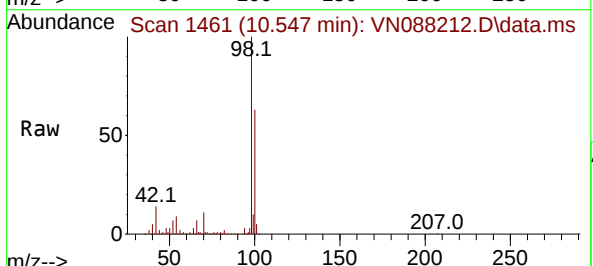
Acq: 06 Nov 2025 17:14

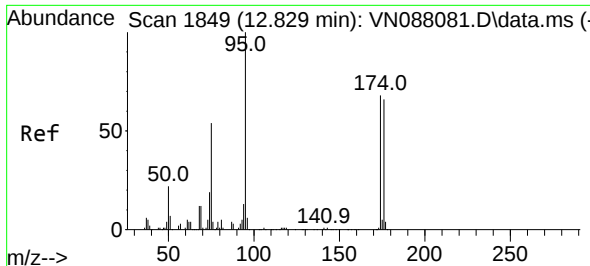
Tgt Ion: 98 Resp: 761174

Ion Ratio Lower Upper

98 100

100 63.6 52.8 79.2

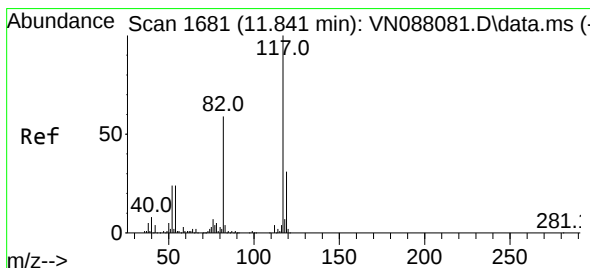
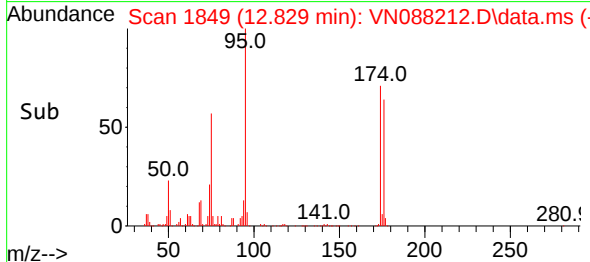
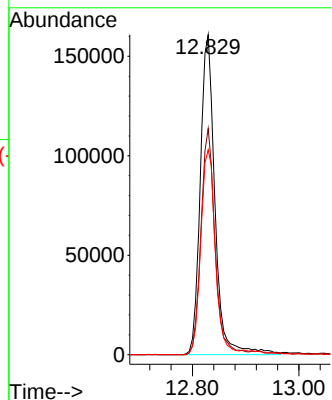
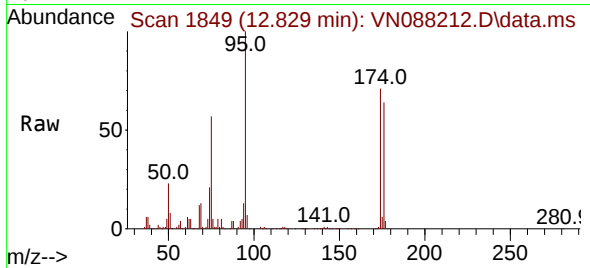




#62
4-Bromofluorobenzene
Concen: 57.272 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088212.D
Acq: 06 Nov 2025 17:14

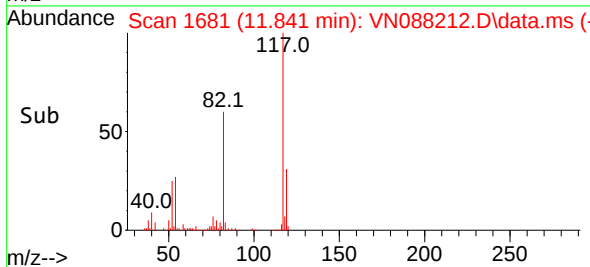
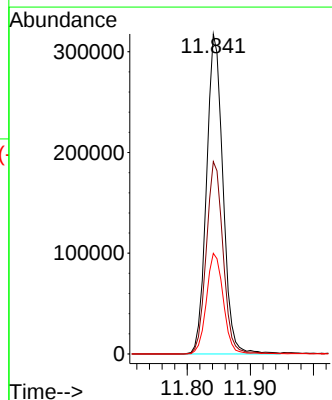
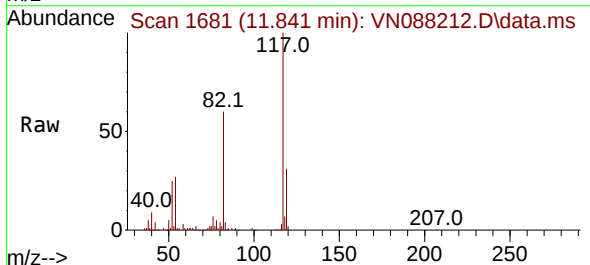
Instrument :
MSVOA_N
ClientSampleId :
SY-10D

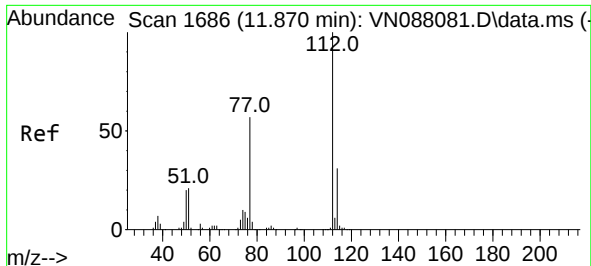
Tgt Ion: 95 Resp: 307824
Ion Ratio Lower Upper
95 100
174 67.4 0.0 138.4
176 63.1 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VN088212.D
Acq: 06 Nov 2025 17:14

Tgt Ion: 117 Resp: 574358
Ion Ratio Lower Upper
117 100
82 60.1 47.4 71.2
119 31.4 24.3 36.5

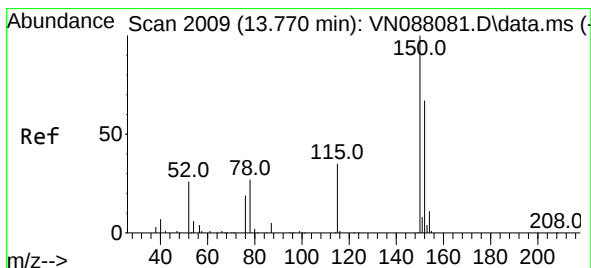
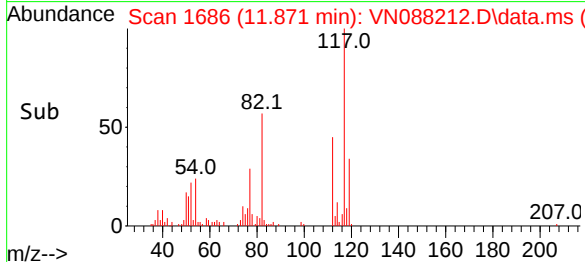
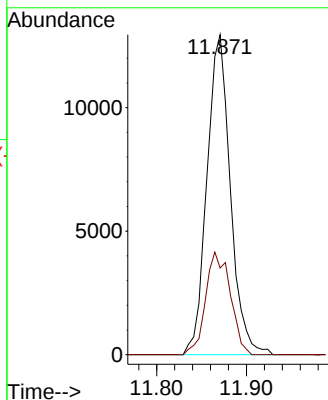
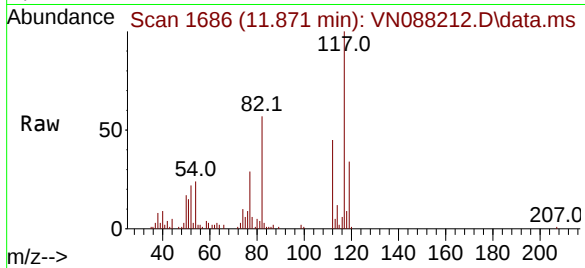




#65
Chlorobenzene
Concen: 1.801 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VN088212.D
Acq: 06 Nov 2025 17:14

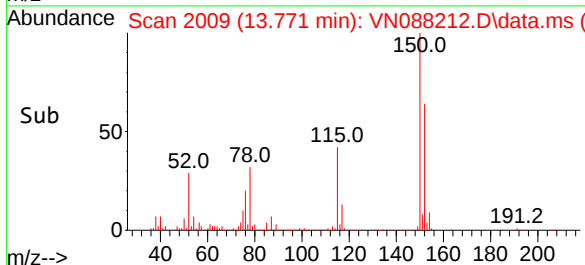
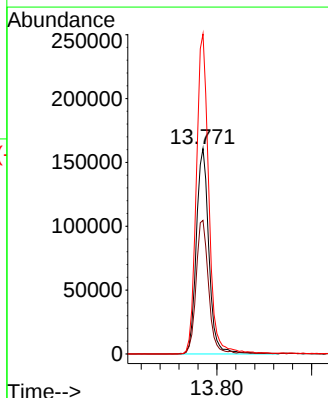
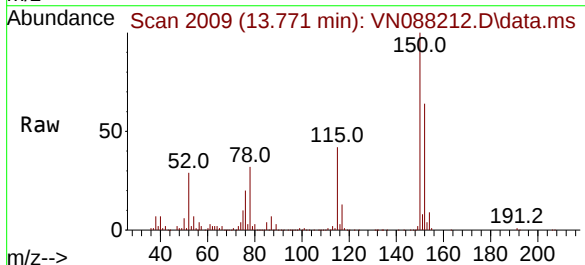
Instrument :
MSVOA_N
ClientSampleId :
SY-10D

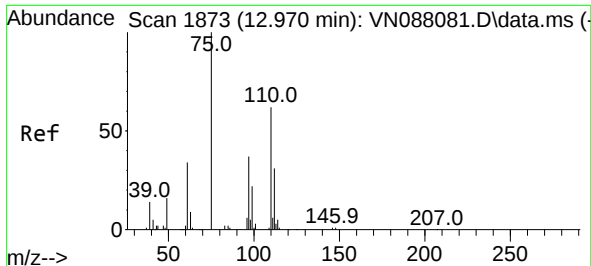
Tgt Ion:112 Resp: 23484
Ion Ratio Lower Upper
112 100
114 27.1 24.3 36.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.771 min Scan# 2009
Delta R.T. 0.006 min
Lab File: VN088212.D
Acq: 06 Nov 2025 17:14

Tgt Ion:152 Resp: 297689
Ion Ratio Lower Upper
152 100
115 64.5 32.3 96.8
150 154.3 0.0 351.0

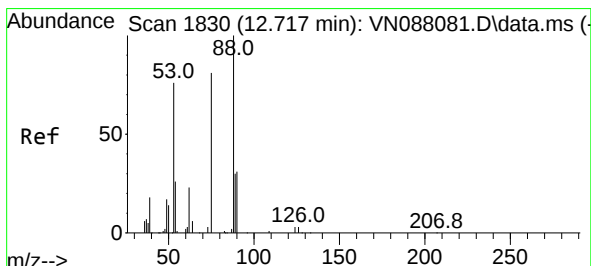
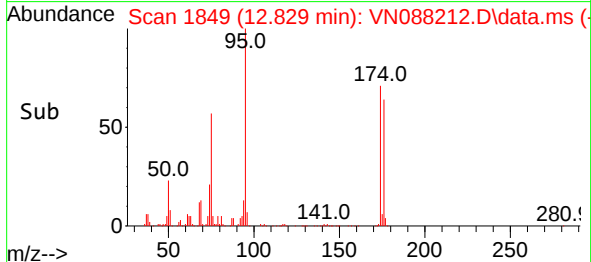
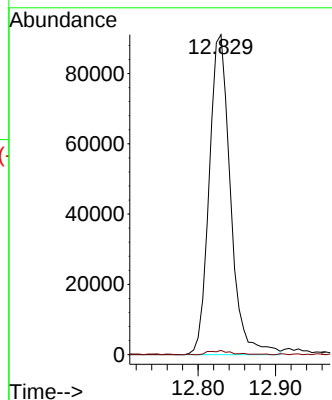
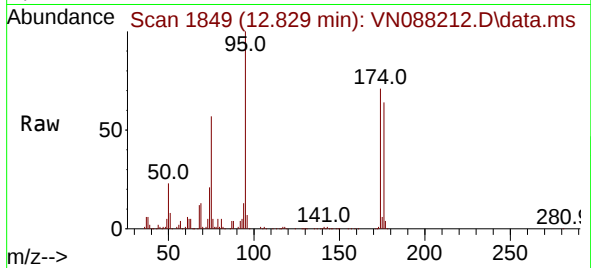




#76
 1,2,3-Trichloropropane
 Concen: 25.569 ug/l
 RT: 12.829 min Scan# 1849
 Delta R.T. -0.141 min
 Lab File: VN088212.D
 Acq: 06 Nov 2025 17:14

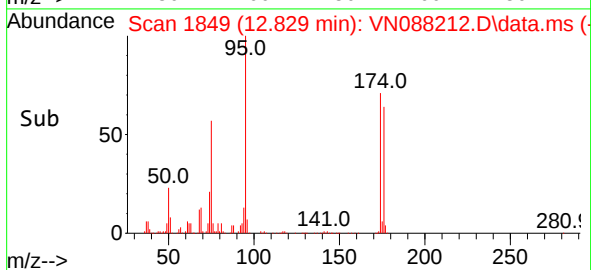
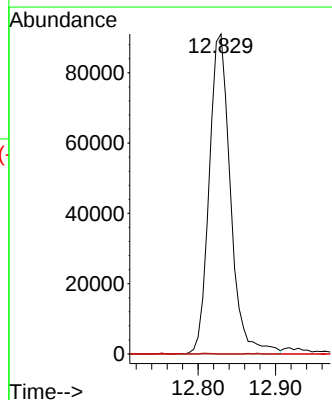
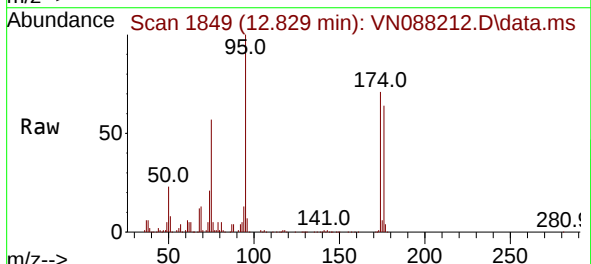
Instrument :
 MSVOA_N
 ClientSampleId :
 SY-10D

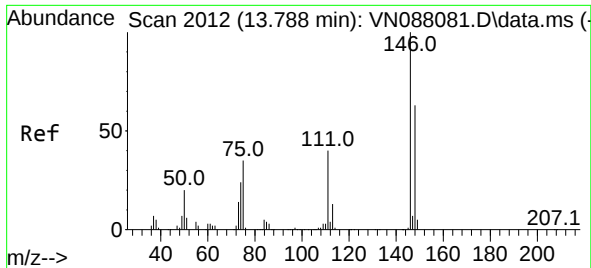
Tgt Ion: 75 Resp: 174028
 Ion Ratio Lower Upper
 75 100
 77 1.4 89.1 267.4#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 71.327 ug/l
 RT: 12.829 min Scan# 1849
 Delta R.T. 0.112 min
 Lab File: VN088212.D
 Acq: 06 Nov 2025 17:14

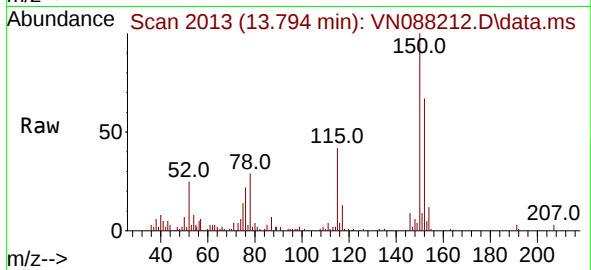
Tgt Ion: 75 Resp: 174028
 Ion Ratio Lower Upper
 75 100
 53 0.0 101.8 152.6#
 89 0.0 35.6 53.4#





#88
1,4-Dichlorobenzene
Concen: 0.513 ug/l
RT: 13.794 min Scan# 20
Delta R.T. 0.006 min
Lab File: VN088212.D
Acq: 06 Nov 2025 17:14

Instrument :
MSVOA_N
ClientSampleId :
SY-10D



Tgt Ion:	146	Resp:	5444
Ion Ratio	Lower	Upper	
146	100		
111	0.0	21.0	63.0#
148	0.0	32.0	96.0#

