

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120325\
 Data File : VN088431.D
 Acq On : 03 Dec 2025 15:56
 Operator : JC\MD
 Sample : Q3725-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 STOCKPILE-SAMPLES

Quant Time: Dec 04 00:21:34 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)

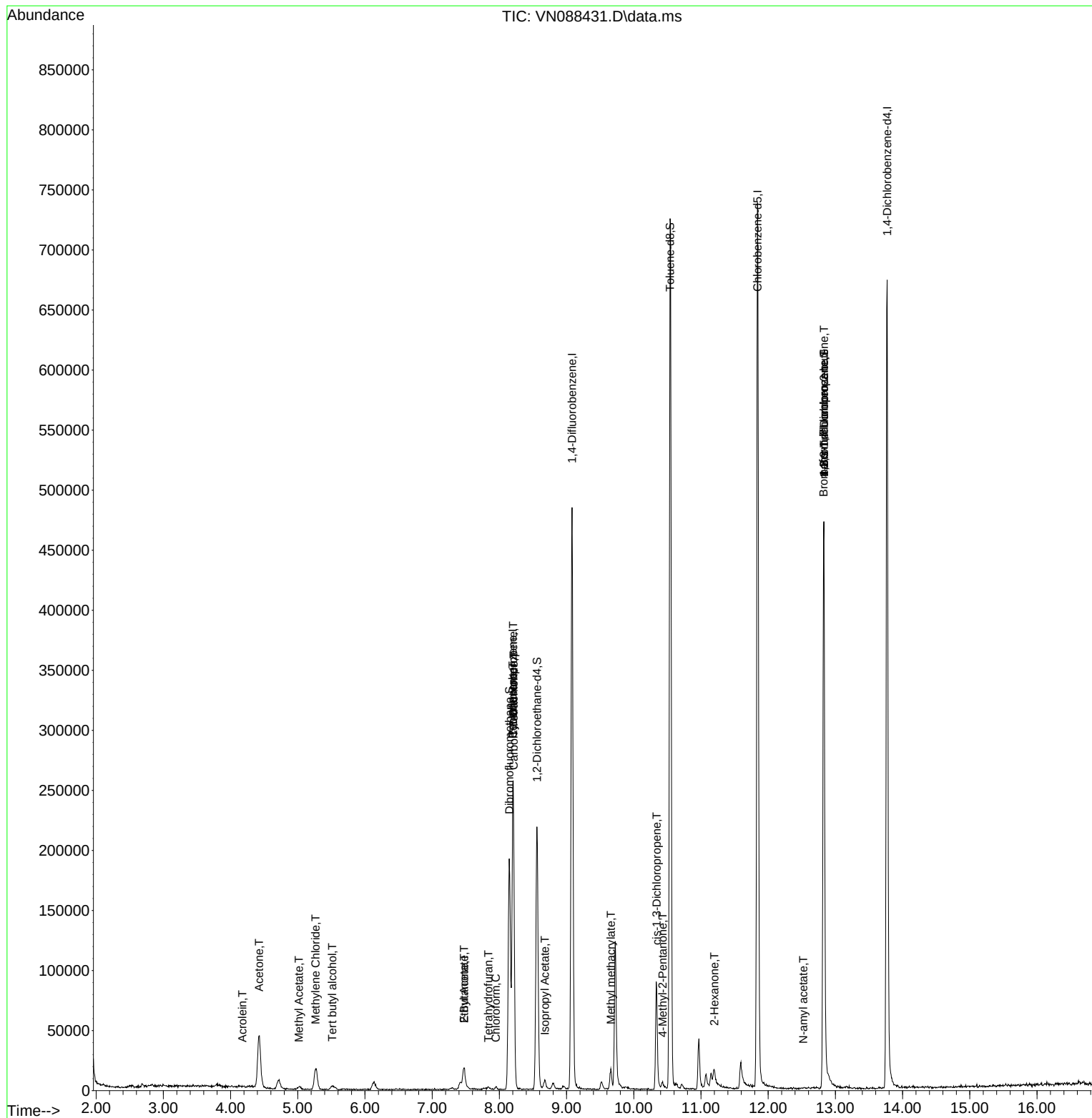
Internal Standards						
1) Pentafluorobenzene	8.200	168	167299	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	387049	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	392150	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	178975	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	186963	59.324	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	118.640%
35) Dibromofluoromethane	8.147	113	137686	51.333	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	102.660%
50) Toluene-d8	10.541	98	484292	48.526	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	97.060%
62) 4-Bromofluorobenzene	12.829	95	173257	50.596	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	101.200%
Target Compounds						
						Qvalue
11) Tert butyl alcohol	5.512	59	5055	10.046	ug/l	99
13) Acrolein	4.177	56	157	0.326	ug/l	93
16) Acetone	4.424	43	92510	81.165	ug/l	100
18) Methyl Acetate	5.018	43	5267	1.552	ug/l #	81
20) Methylene Chloride	5.265	84	13101	5.372	ug/l	92
25) 2-Butanone	7.477	43	34508	18.833	ug/l	91
29) Tetrahydrofuran	7.836	42	1082	0.823	ug/l #	64
30) Chloroform	7.947	83	1575	0.350	ug/l	98
31) Cyclohexane	8.200	56	5339	1.288	ug/l #	15
36) 1,1-Dichloropropene	8.206	75	18596	4.492	ug/l #	51
37) Ethyl Acetate	7.477	43	34508	6.340	ug/l #	72
38) Carbon Tetrachloride	8.212	117	20432	4.958	ug/l #	15
43) Isopropyl Acetate	8.677	43	9832	1.182	ug/l #	72
48) Methyl methacrylate	9.659	41	1553	0.409	ug/l #	48
51) 4-Methyl-2-Pentanone	10.430	43	5917	1.207	ug/l #	79
54) cis-1,3-Dichloropropene	10.341	75	14965	3.059	ug/l #	65
59) 2-Hexanone	11.200	43	3473	1.125	ug/l #	63
71) Bromoform	12.823	173	1248	0.574	ug/l #	1
74) N-amyl acetate	12.523	43	909	0.202	ug/l #	52
76) 1,2,3-Trichloropropane	12.829	75	98361	23.464	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	98361	66.567	ug/l #	1

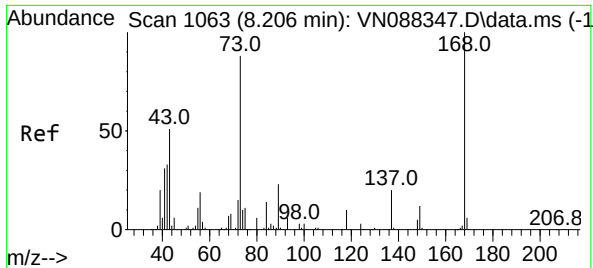
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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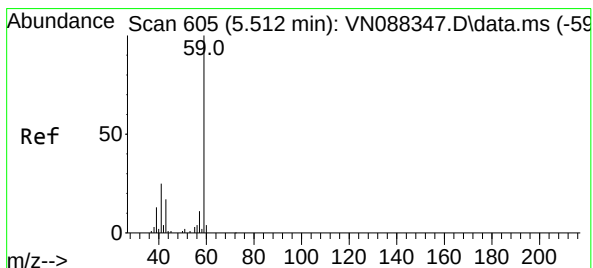
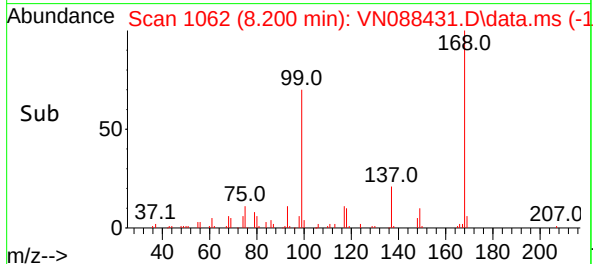
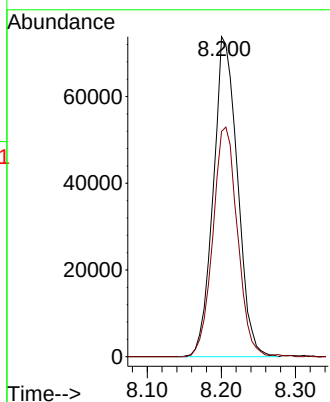
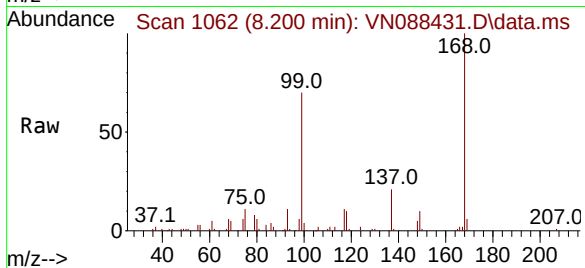




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.200 min Scan# 1063
Delta R.T. -0.006 min
Lab File: VN088431.D
Acq: 03 Dec 2025 15:56

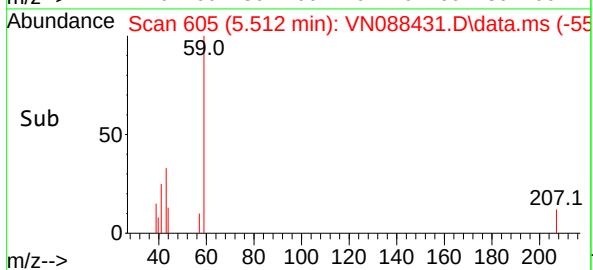
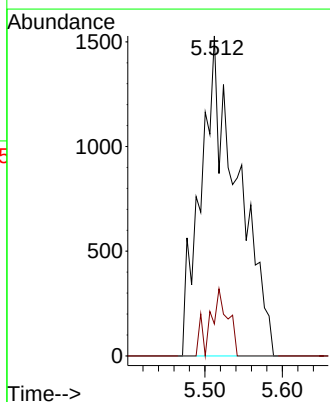
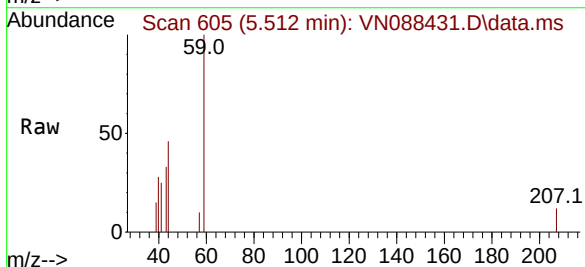
Instrument :
MSVOA_N
ClientSampleId :
STOCKPILE-SAMPLES

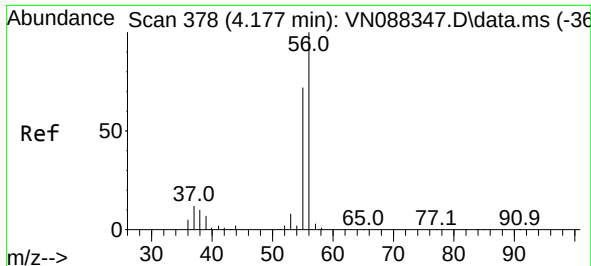
Tgt Ion:168 Resp: 167299
Ion Ratio Lower Upper
168 100
99 70.4 57.1 85.7



#11
Tert butyl alcohol
Concen: 10.046 ug/l
RT: 5.512 min Scan# 605
Delta R.T. 0.000 min
Lab File: VN088431.D
Acq: 03 Dec 2025 15:56

Tgt Ion: 59 Resp: 5055
Ion Ratio Lower Upper
59 100
57 10.2 8.5 12.7

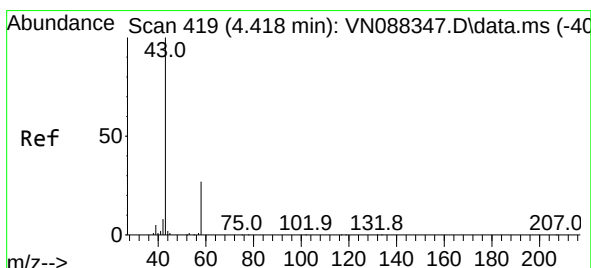
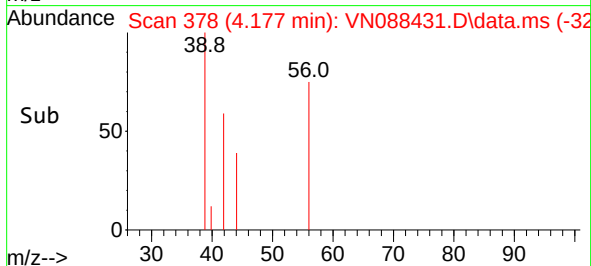
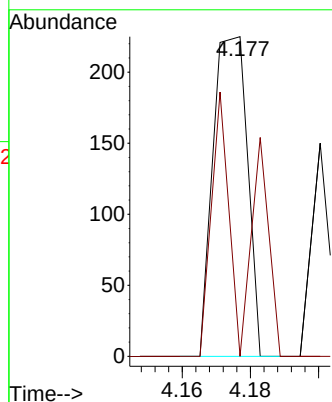
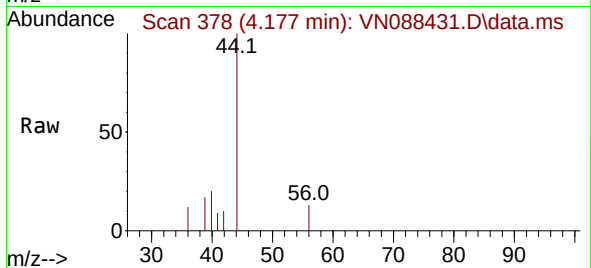




#13
Acrolein
Concen: 0.326 ug/l
RT: 4.177 min Scan# 31
Delta R.T. 0.000 min
Lab File: VN088431.D
Acq: 03 Dec 2025 15:56

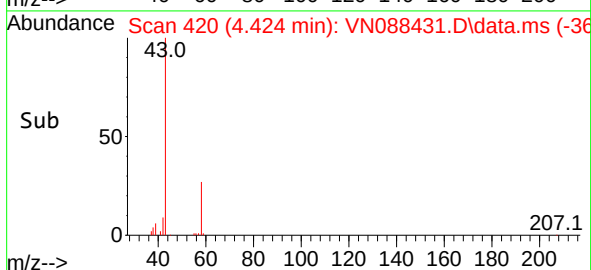
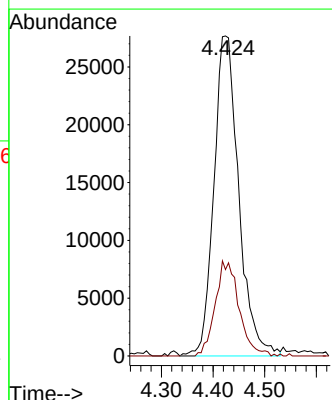
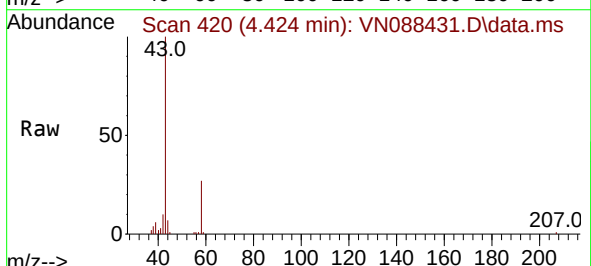
Instrument :
MSVOA_N
ClientSampleId :
STOCKPILE-SAMPLES

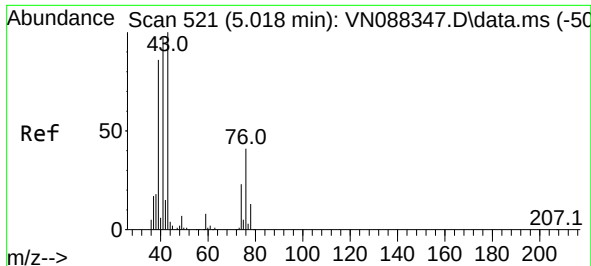
Tgt Ion: 56 Resp: 157
Ion Ratio Lower Upper
56 100
55 76.4 56.3 84.5



#16
Acetone
Concen: 81.165 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.006 min
Lab File: VN088431.D
Acq: 03 Dec 2025 15:56

Tgt Ion: 43 Resp: 92510
Ion Ratio Lower Upper
43 100
58 27.0 21.7 32.5

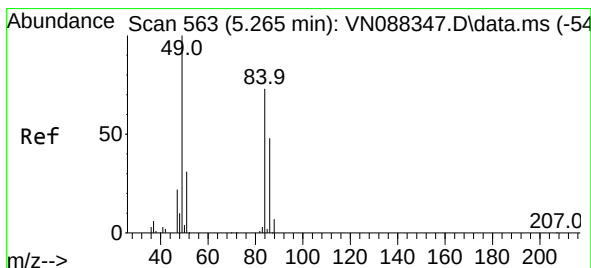
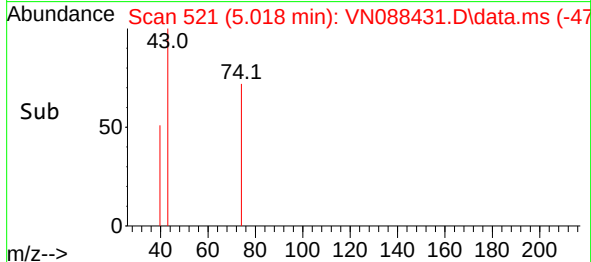
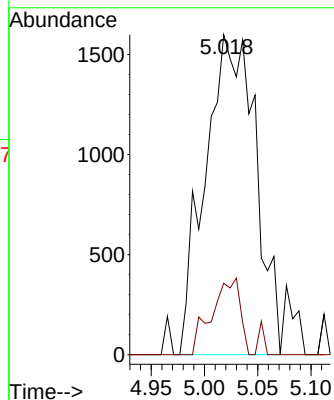
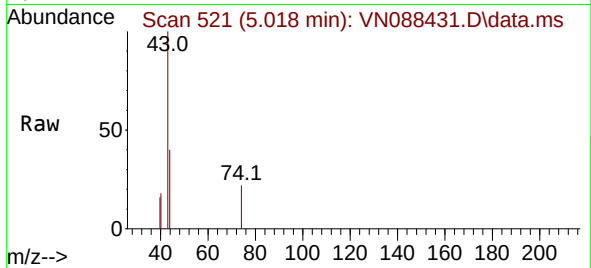




#18
Methyl Acetate
Concen: 1.552 ug/l
RT: 5.018 min Scan# 51
Delta R.T. 0.000 min
Lab File: VN088431.D
Acq: 03 Dec 2025 15:56

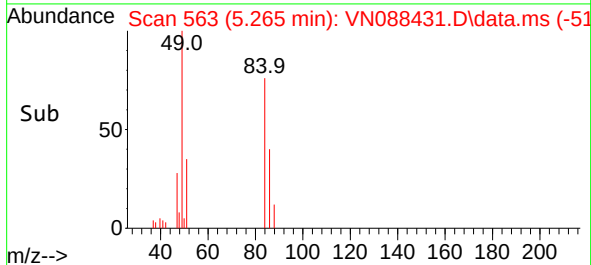
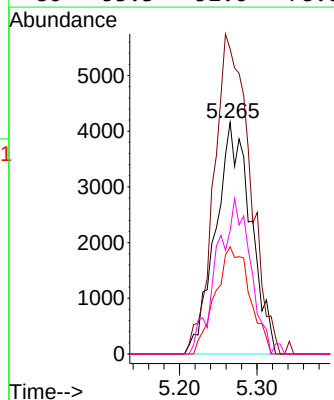
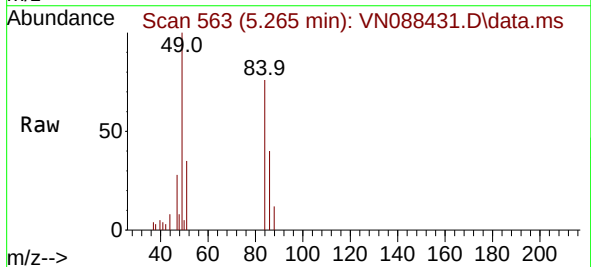
Instrument :
MSVOA_N
ClientSampleId :
STOCKPILE-SAMPLES

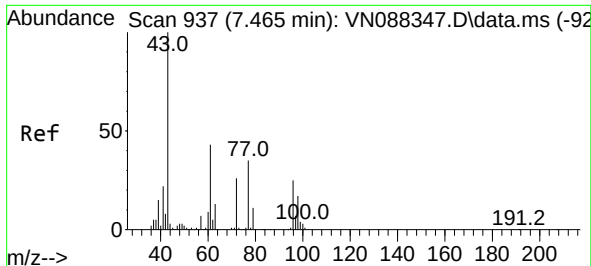
Tgt Ion: 43 Resp: 5267
Ion Ratio Lower Upper
43 100
74 13.5 17.9 26.9#



#20
Methylene Chloride
Concen: 5.372 ug/l
RT: 5.265 min Scan# 563
Delta R.T. 0.000 min
Lab File: VN088431.D
Acq: 03 Dec 2025 15:56

Tgt Ion: 84 Resp: 13101
Ion Ratio Lower Upper
84 100
49 131.8 110.2 165.2
51 46.2 34.1 51.1
86 53.3 52.6 78.8

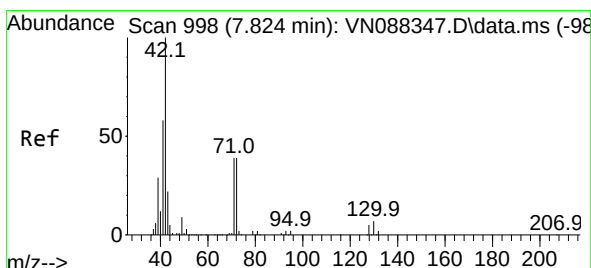
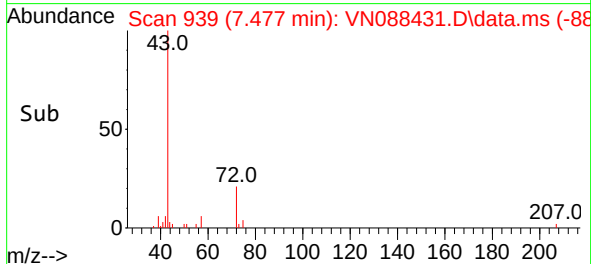
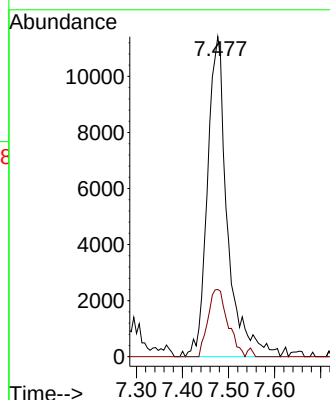
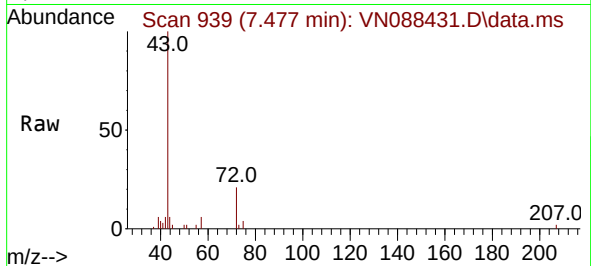




#25
2-Butanone
Concen: 18.833 ug/l
RT: 7.477 min Scan# 91
Delta R.T. 0.012 min
Lab File: VN088431.D
Acq: 03 Dec 2025 15:56

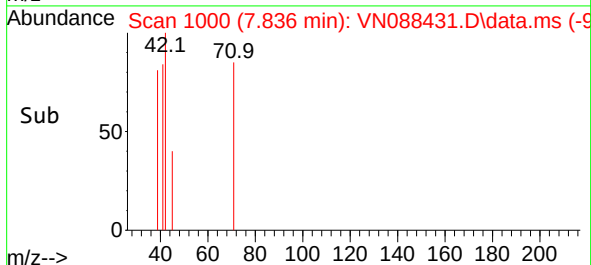
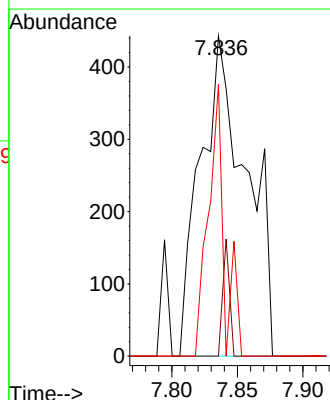
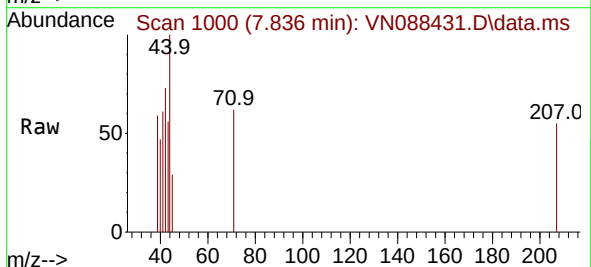
Instrument :
MSVOA_N
ClientSampleId :
STOCKPILE-SAMPLES

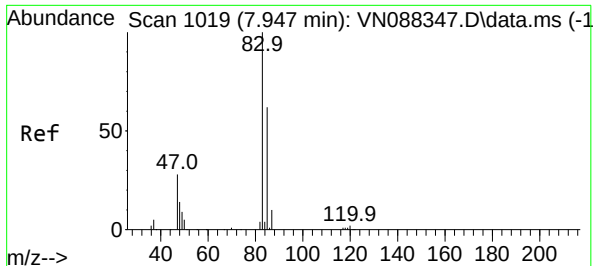
Tgt Ion: 43 Resp: 34508
Ion Ratio Lower Upper
43 100
72 21.0 20.5 30.7



#29
Tetrahydrofuran
Concen: 0.823 ug/l
RT: 7.836 min Scan# 1000
Delta R.T. 0.012 min
Lab File: VN088431.D
Acq: 03 Dec 2025 15:56

Tgt Ion: 42 Resp: 1082
Ion Ratio Lower Upper
42 100
72 5.3 32.2 48.4#
71 29.4 31.1 46.7#





#30

Chloroform

Concen: 0.350 ug/l

RT: 7.947 min Scan# 1019

Delta R.T. 0.000 min

Lab File: VN088431.D

Acq: 03 Dec 2025 15:56

Instrument :

MSVOA_N

ClientSampleId :

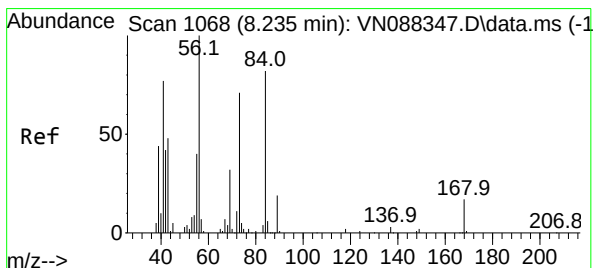
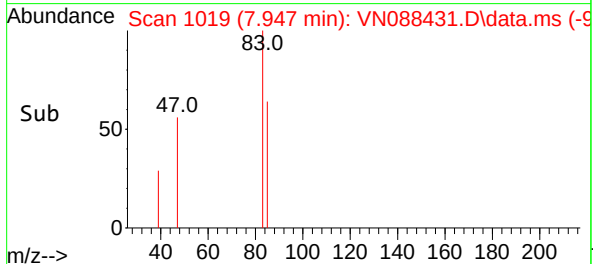
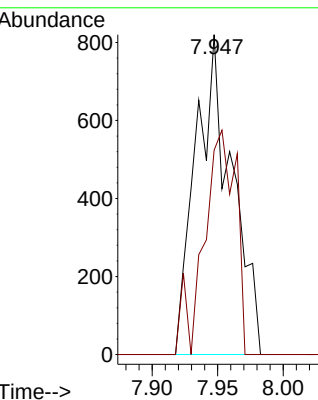
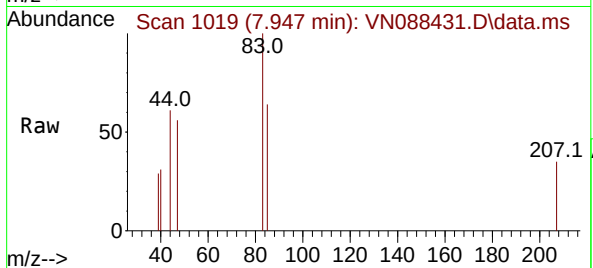
STOCKPILE-SAMPLES

Tgt Ion: 83 Resp: 1575

Ion Ratio Lower Upper

83 100

85 63.9 49.8 74.8



#31

Cyclohexane

Concen: 1.288 ug/l

RT: 8.200 min Scan# 1062

Delta R.T. -0.035 min

Lab File: VN088431.D

Acq: 03 Dec 2025 15:56

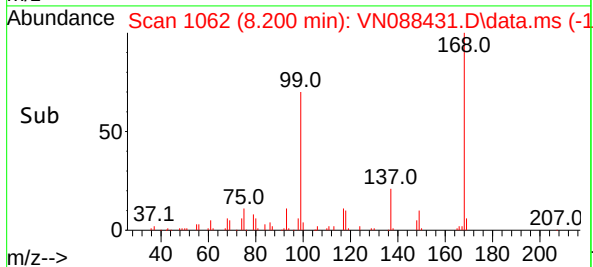
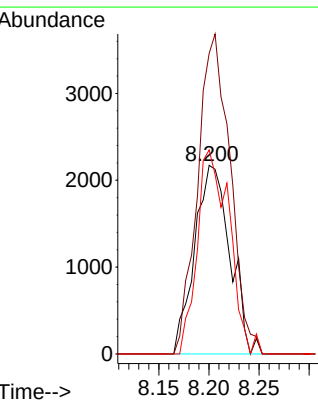
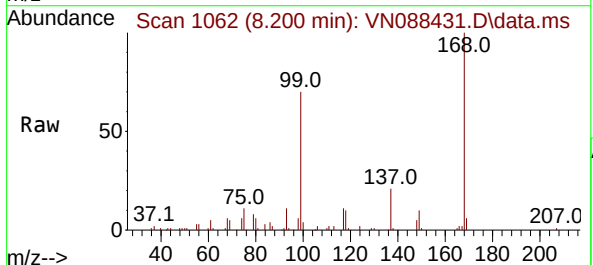
Tgt Ion: 56 Resp: 5339

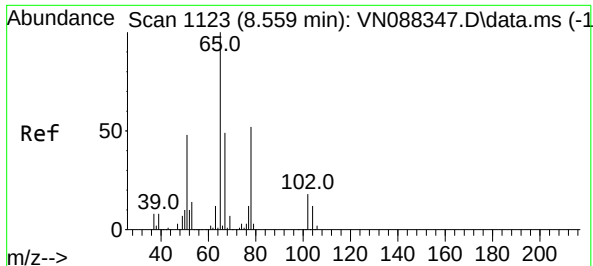
Ion Ratio Lower Upper

56 100

69 159.3 25.3 37.9#

84 108.1 65.4 98.2#





#33

1,2-Dichloroethane-d4

Concen: 59.324 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. 0.000 min

Lab File: VN088431.D

Acq: 03 Dec 2025 15:56

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ClientSampleId :

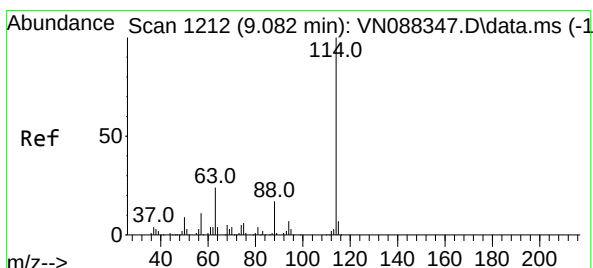
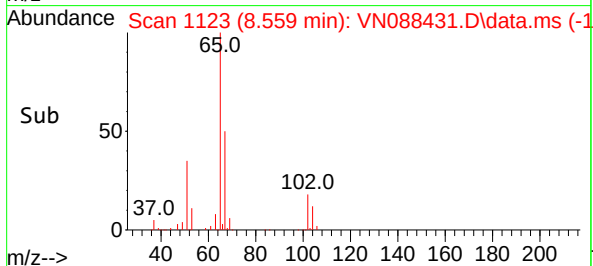
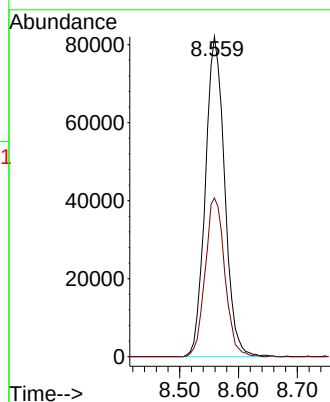
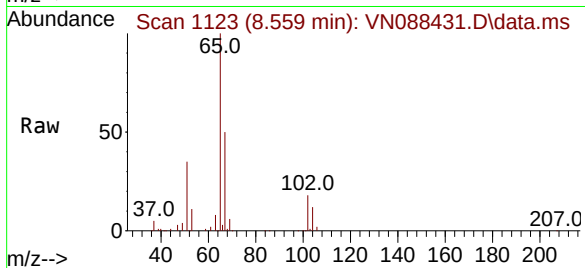
STOCKPILE-SAMPLES

Tgt Ion: 65 Resp: 186963

Ion Ratio Lower Upper

65 100

67 50.5 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: VN088431.D

Acq: 03 Dec 2025 15:56

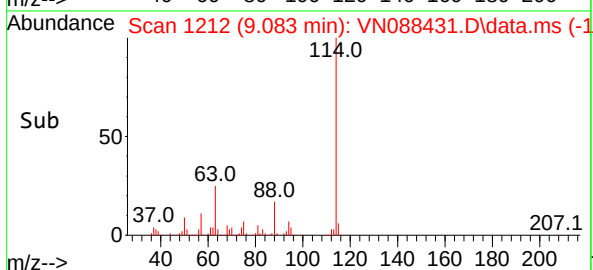
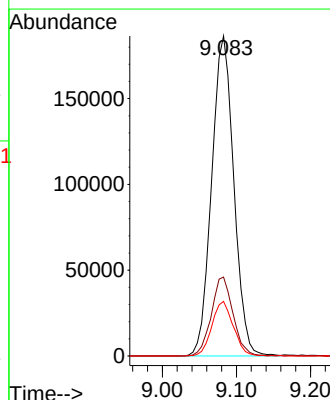
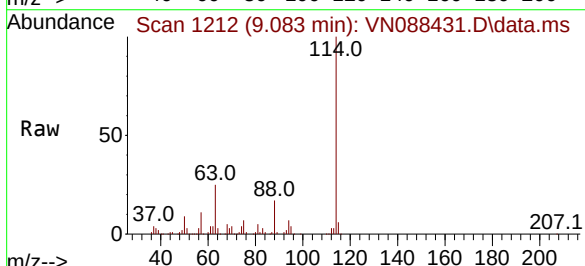
Tgt Ion: 114 Resp: 387049

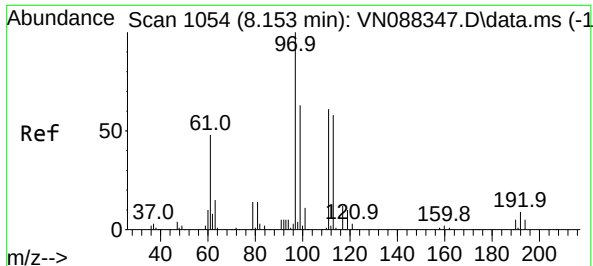
Ion Ratio Lower Upper

114 100

63 24.7 0.0 49.0

88 17.1 0.0 34.0





#35

Dibromofluoromethane

Concen: 51.333 ug/l

RT: 8.147 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN088431.D

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MSVOA_N

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STOCKPILE-SAMPLES

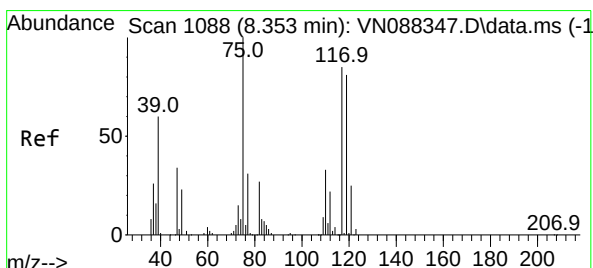
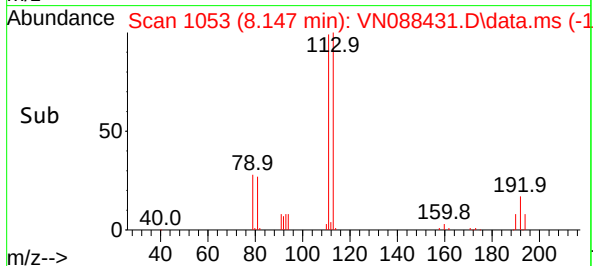
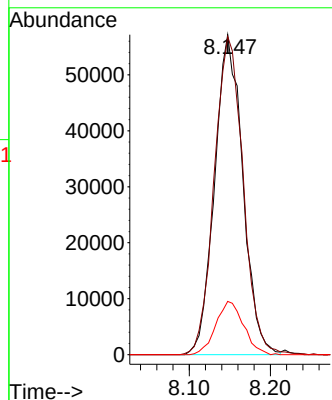
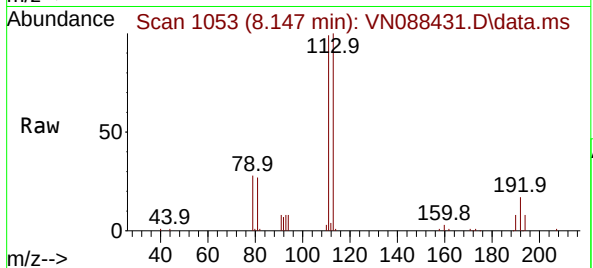
Tgt Ion:113 Resp: 137686

Ion Ratio Lower Upper

113 100

111 101.9 82.5 123.7

192 16.5 12.8 19.2



#36

1,1-Dichloropropene

Concen: 4.492 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.147 min

Lab File: VN088431.D

Acq: 03 Dec 2025 15:56

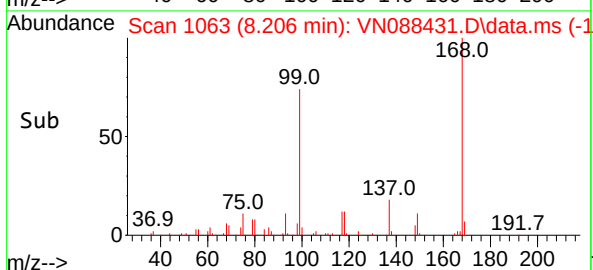
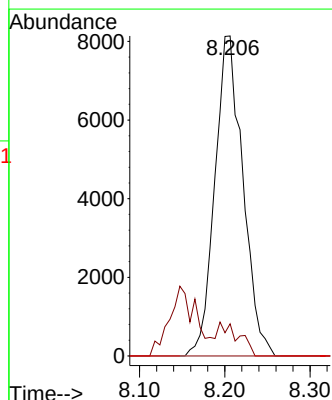
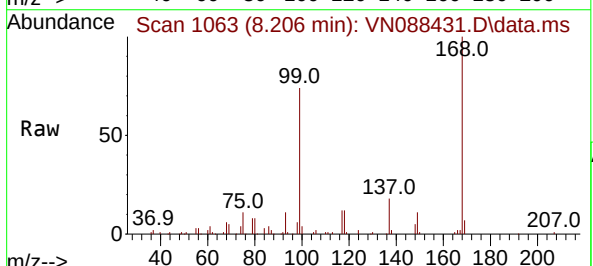
Tgt Ion: 75 Resp: 18596

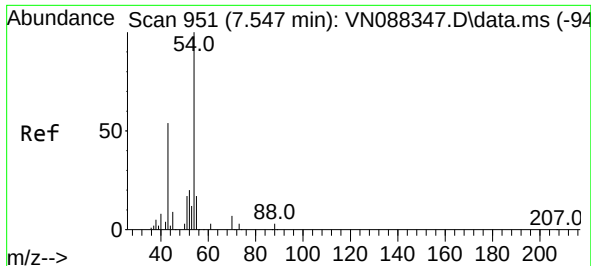
Ion Ratio Lower Upper

75 100

110 7.5 15.8 47.4#

77 0.0 24.2 36.2#





#37

Ethyl Acetate

Concen: 6.340 ug/l

RT: 7.477 min Scan# 91

Delta R.T. -0.070 min

Lab File: VN088431.D

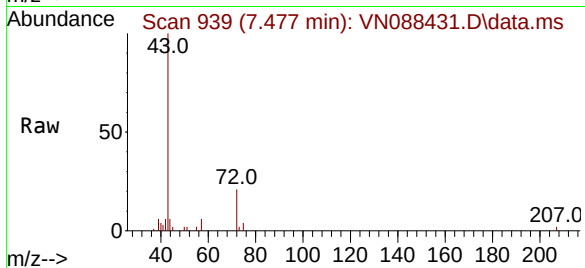
Acq: 03 Dec 2025 15:56

Instrument :

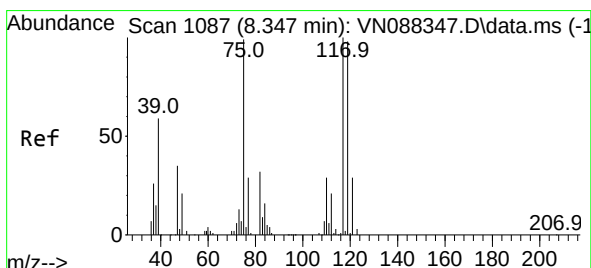
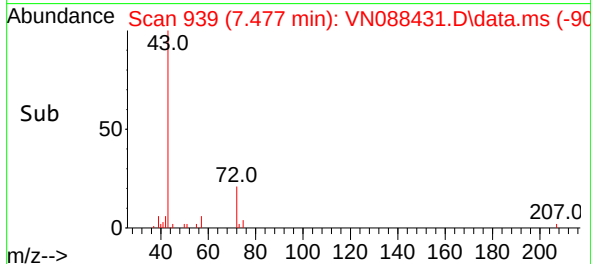
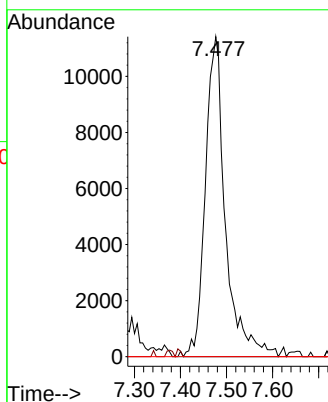
MSVOA_N

ClientSampleId :

STOCKPILE-SAMPLES



Tgt Ion:	43	Resp:	34508
Ion	Ratio	Lower	Upper
43	100		
61	0.0	9.5	14.3#
70	0.0	7.1	10.7#



#38

Carbon Tetrachloride

Concen: 4.958 ug/l

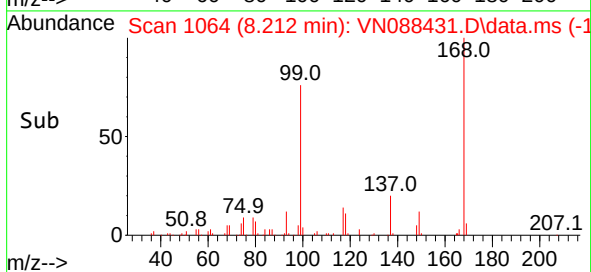
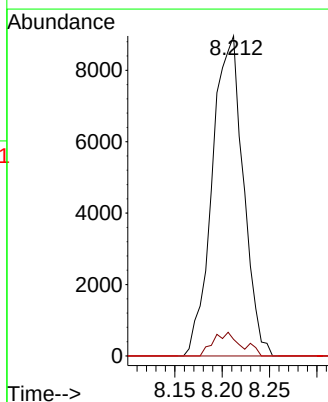
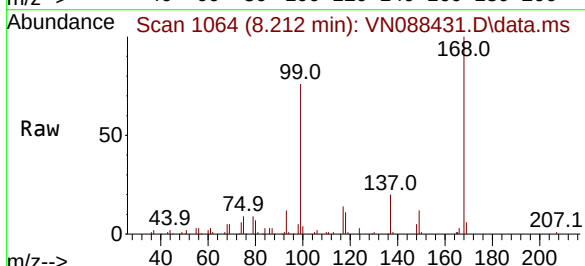
RT: 8.212 min Scan# 1064

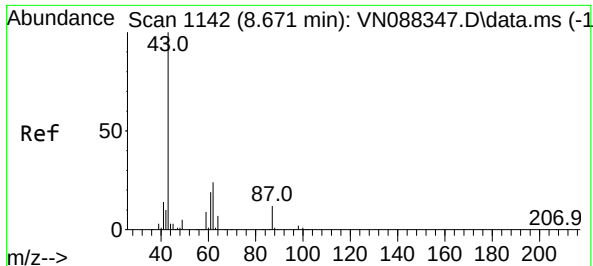
Delta R.T. -0.135 min

Lab File: VN088431.D

Acq: 03 Dec 2025 15:56

Tgt Ion:	117	Resp:	20432
Ion	Ratio	Lower	Upper
117	100		
119	5.2	78.2	117.4#
121	0.0	23.4	35.2#





#43

Isopropyl Acetate

Concen: 1.182 ug/l

RT: 8.677 min Scan# 1143

Delta R.T. 0.006 min

Lab File: VN088431.D

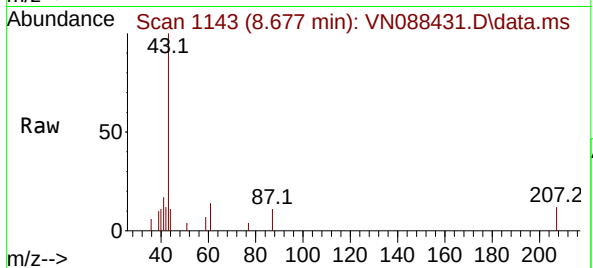
Acq: 03 Dec 2025 15:56

Instrument :

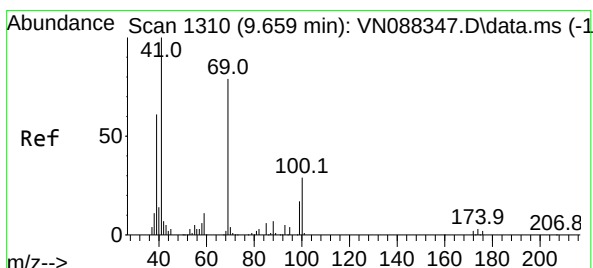
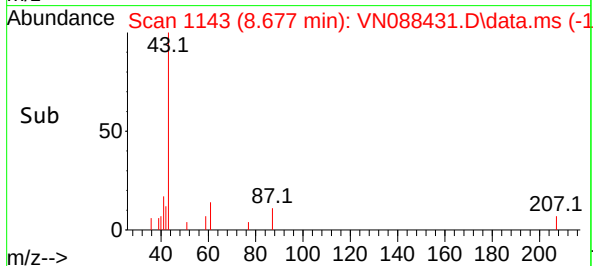
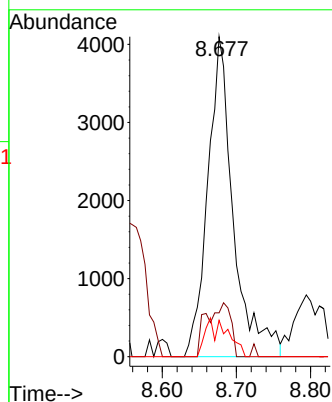
MSVOA_N

ClientSampleId :

STOCKPILE-SAMPLES



Tgt Ion:	43	Resp:	9832
Ion	Ratio	Lower	Upper
43	100		
61	10.3	18.7	28.1#
87	0.0	9.1	13.7#



#48

Methyl methacrylate

Concen: 0.409 ug/l

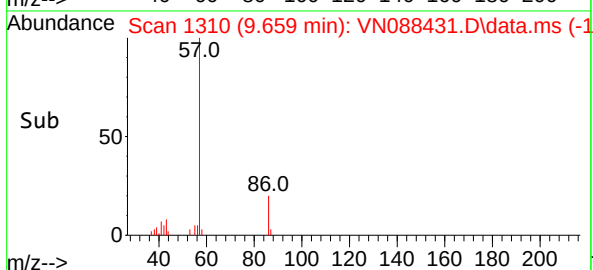
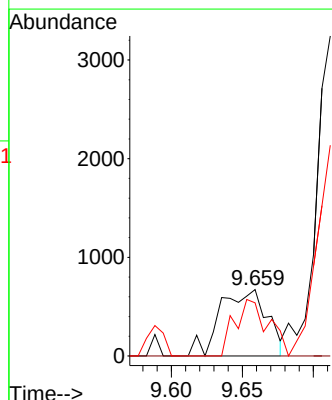
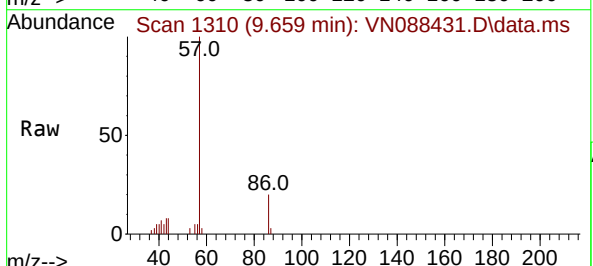
RT: 9.659 min Scan# 1310

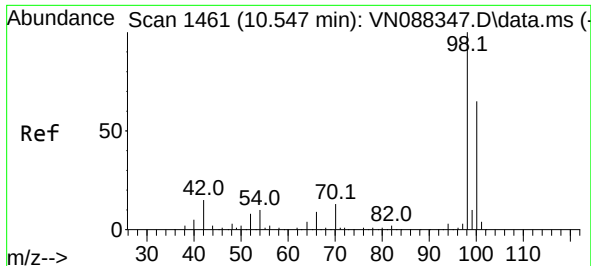
Delta R.T. 0.000 min

Lab File: VN088431.D

Acq: 03 Dec 2025 15:56

Tgt Ion:	41	Resp:	1553
Ion	Ratio	Lower	Upper
41	100		
69	0.0	62.4	93.6#
39	60.7	52.6	79.0





#50

Toluene-d8

Concen: 48.526 ug/l

RT: 10.541 min Scan# 1460

Delta R.T. -0.006 min

Lab File: VN088431.D

Acq: 03 Dec 2025 15:56

Instrument :

MSVOA_N

ClientSampleId :

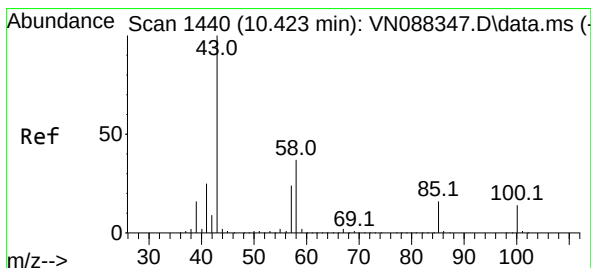
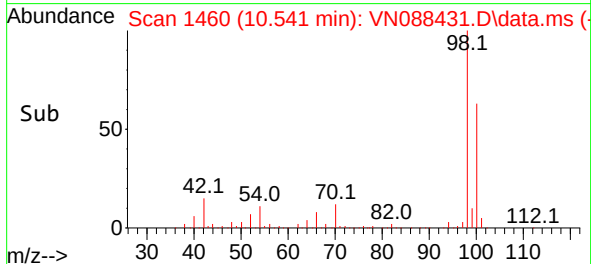
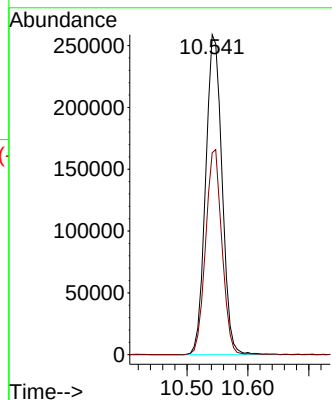
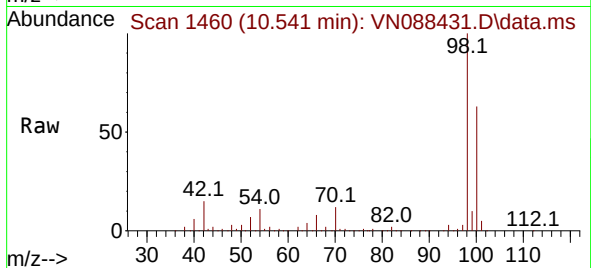
STOCKPILE-SAMPLES

Tgt Ion: 98 Resp: 484292

Ion Ratio Lower Upper

98 100

100 63.9 52.2 78.2



#51

4-Methyl-2-Pentanone

Concen: 1.207 ug/l

RT: 10.430 min Scan# 1441

Delta R.T. 0.006 min

Lab File: VN088431.D

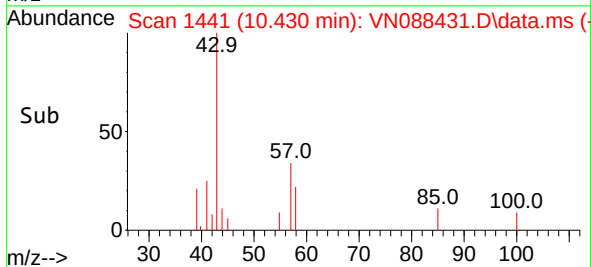
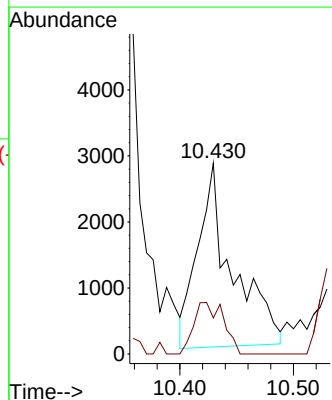
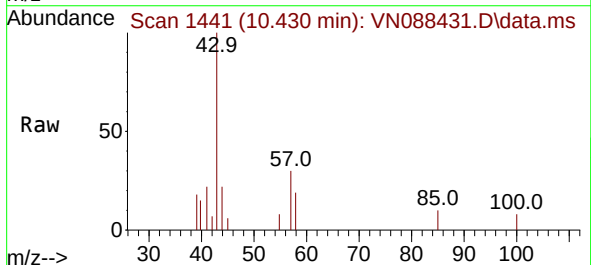
Acq: 03 Dec 2025 15:56

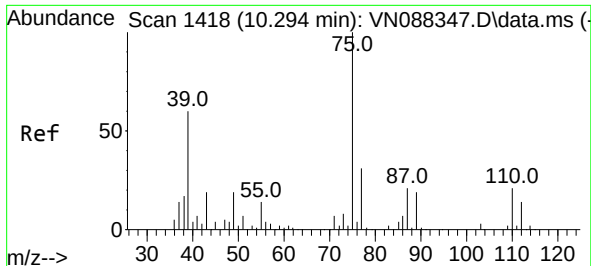
Tgt Ion: 43 Resp: 5917

Ion Ratio Lower Upper

43 100

58 24.1 29.1 43.7#

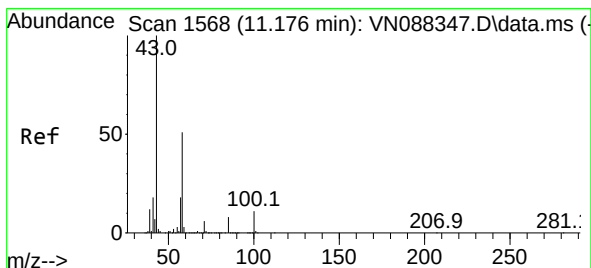
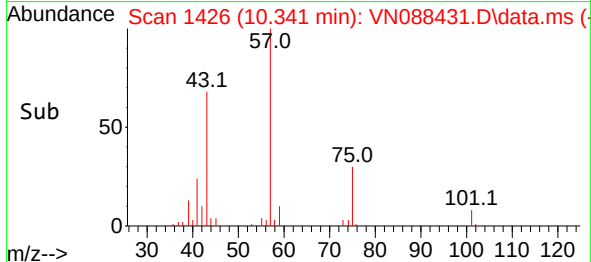
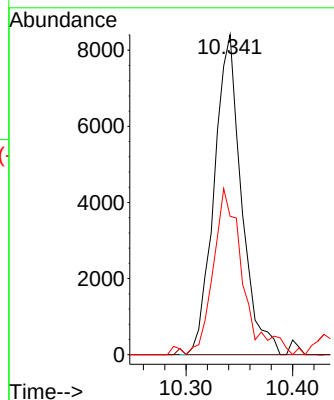
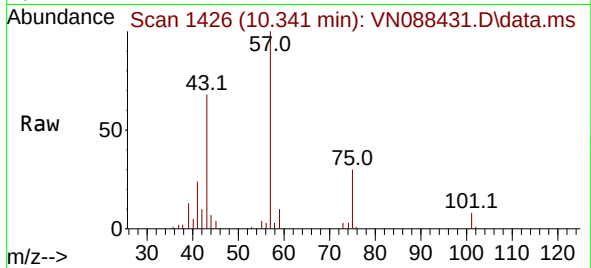




#54
 cis-1,3-Dichloropropene
 Concen: 3.059 ug/l
 RT: 10.341 min Scan# 1418
 Delta R.T. 0.047 min
 Lab File: VN088431.D
 Acq: 03 Dec 2025 15:56

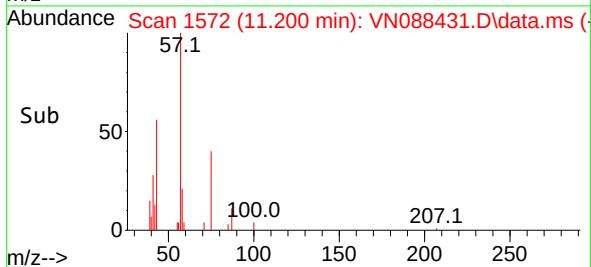
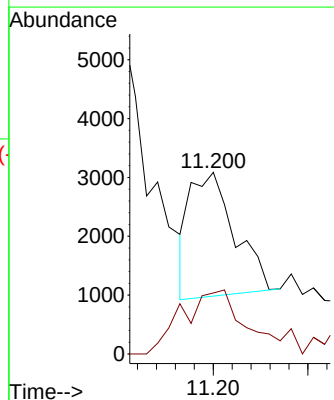
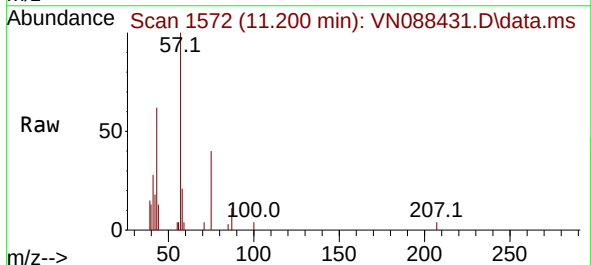
Instrument :
 MSVOA_N
 ClientSampleId :
 STOCKPILE-SAMPLES

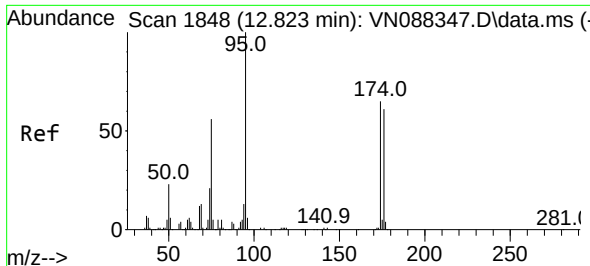
Tgt Ion: 75 Resp: 14965
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.5 36.7#
 39 41.4 48.3 72.5#



#59
 2-Hexanone
 Concen: 1.125 ug/l
 RT: 11.200 min Scan# 1572
 Delta R.T. 0.024 min
 Lab File: VN088431.D
 Acq: 03 Dec 2025 15:56

Tgt Ion: 43 Resp: 3473
 Ion Ratio Lower Upper
 43 100
 58 76.2 25.3 75.9#

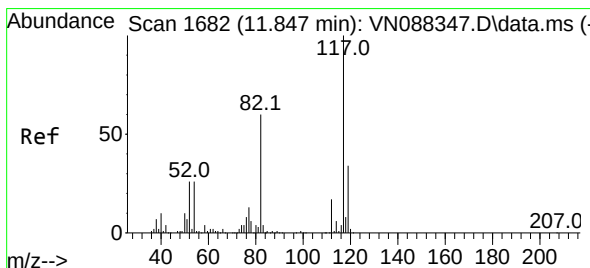
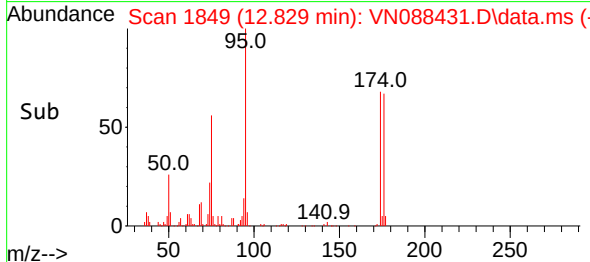
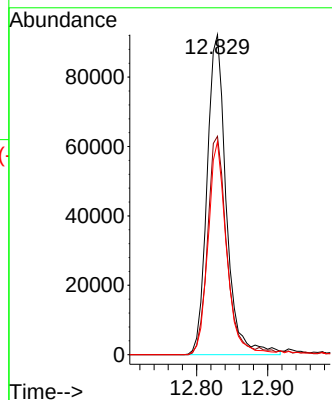
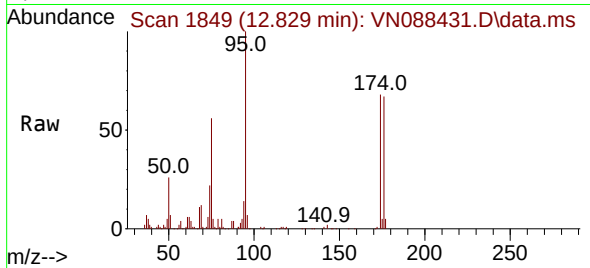




#62
4-Bromofluorobenzene
Concen: 50.596 ug/l
RT: 12.829 min Scan# 1848
Delta R.T. 0.006 min
Lab File: VN088431.D
Acq: 03 Dec 2025 15:56

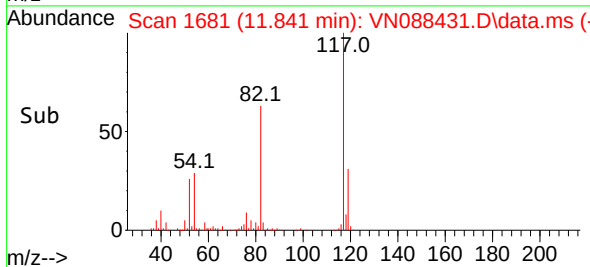
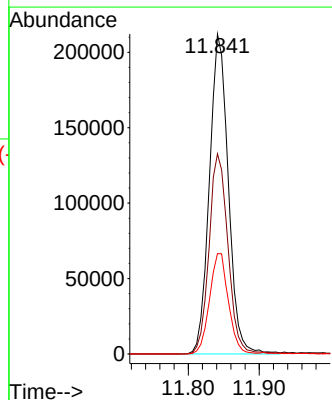
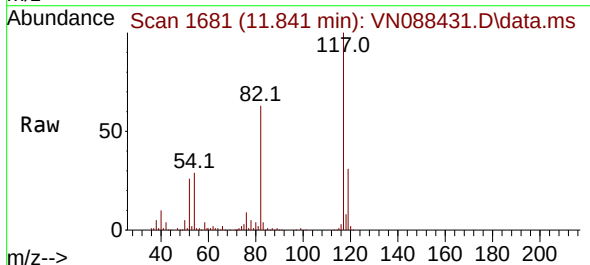
Instrument :
MSVOA_N
ClientSampleId :
STOCKPILE-SAMPLES

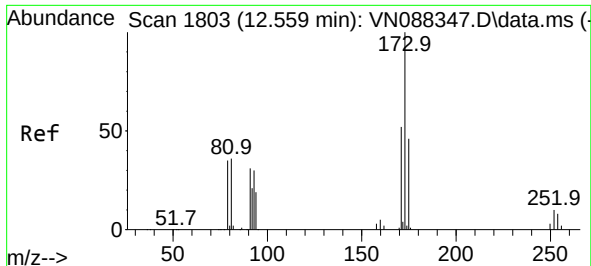
Tgt Ion: 95 Resp: 173257
Ion Ratio Lower Upper
95 100
174 69.6 0.0 139.0
176 64.3 0.0 132.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. -0.006 min
Lab File: VN088431.D
Acq: 03 Dec 2025 15:56

Tgt Ion: 117 Resp: 392150
Ion Ratio Lower Upper
117 100
82 62.5 47.8 71.8
119 31.4 26.9 40.3

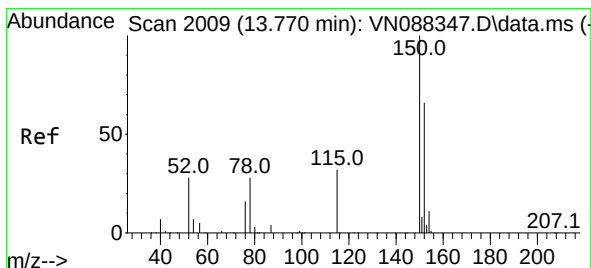
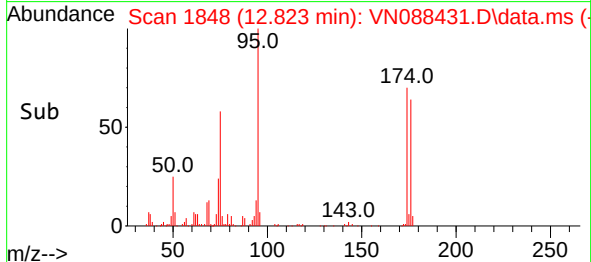
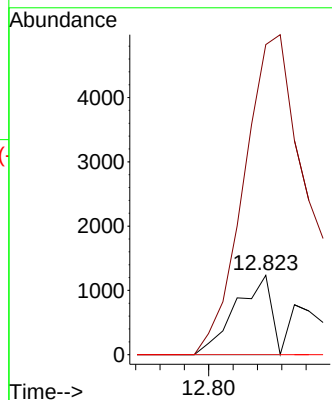
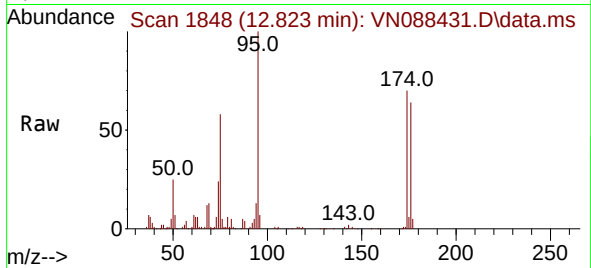




#71
Bromoform
Concen: 0.574 ug/l
RT: 12.823 min Scan# 11
Delta R.T. 0.265 min
Lab File: VN088431.D
Acq: 03 Dec 2025 15:56

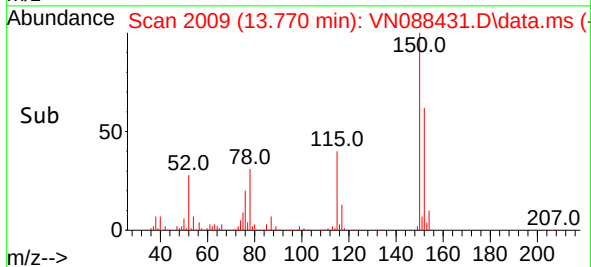
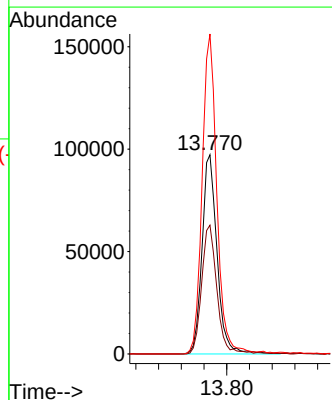
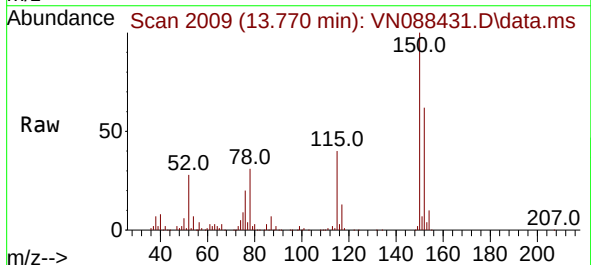
Instrument :
MSVOA_N
ClientSampleId :
STOCKPILE-SAMPLES

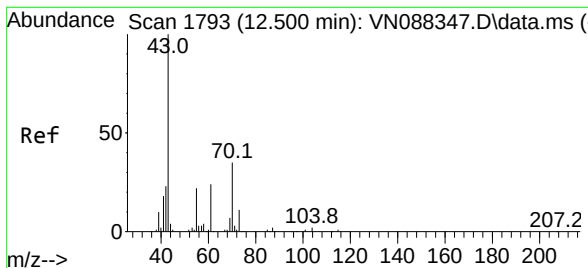
Tgt Ion:173 Resp: 1248
Ion Ratio Lower Upper
173 100
175 561.8 23.9 71.8#
254 0.0 0.1 0.1#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. 0.000 min
Lab File: VN088431.D
Acq: 03 Dec 2025 15:56

Tgt Ion:152 Resp: 178975
Ion Ratio Lower Upper
152 100
115 65.6 33.0 98.9
150 156.0 0.0 349.0





#74

N-amy1 acetate

Concen: 0.202 ug/l

RT: 12.523 min Scan# 1

Delta R.T. 0.024 min

Lab File: VN088431.D

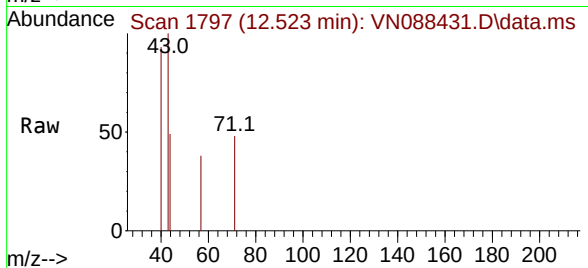
Acq: 03 Dec 2025 15:56

Instrument :

MSVOA_N

ClientSampleId :

STOCKPILE-SAMPLES



Tgt Ion: 43 Resp: 909

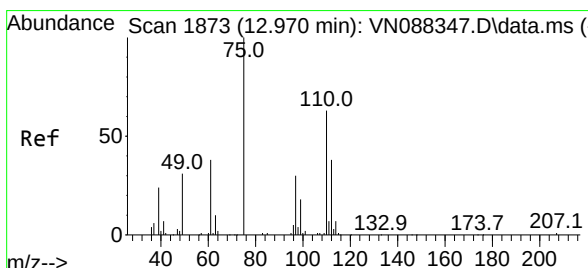
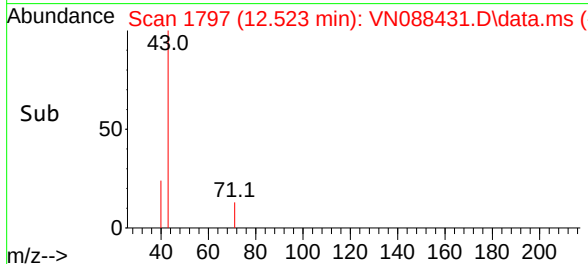
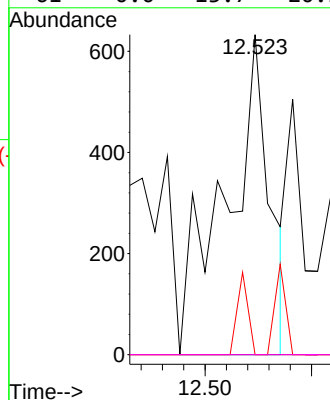
Ion Ratio Lower Upper

43 100

70 0.0 28.3 42.5#

55 6.4 17.7 26.5#

61 0.0 13.7 20.5#



#76

1,2,3-Trichloropropane

Concen: 23.464 ug/l

RT: 12.829 min Scan# 1849

Delta R.T. -0.141 min

Lab File: VN088431.D

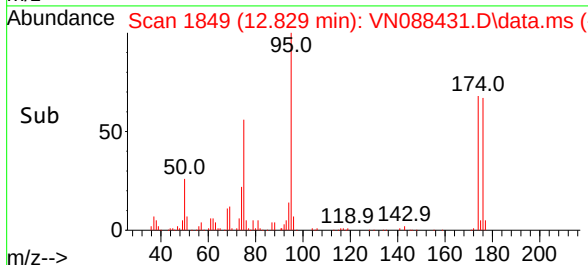
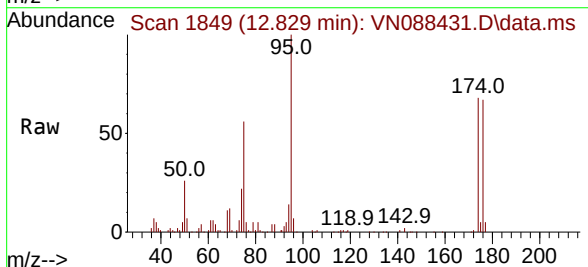
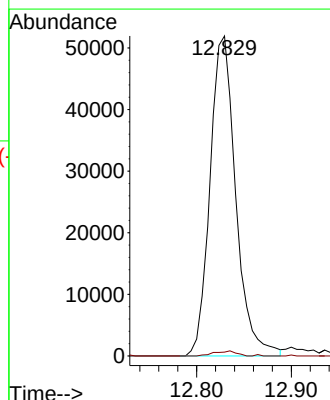
Acq: 03 Dec 2025 15:56

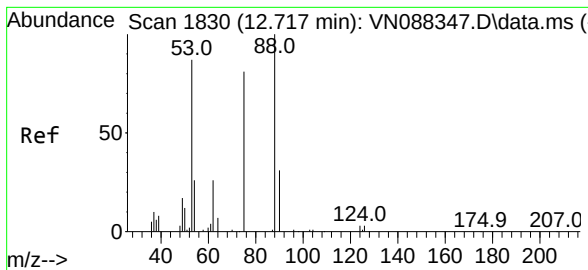
Tgt Ion: 75 Resp: 98361

Ion Ratio Lower Upper

75 100

77 1.3 87.2 261.6#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 66.567 ug/l
 RT: 12.829 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN088431.D
 Acq: 03 Dec 2025 15:56

Instrument :
 MSVOA_N
 ClientSampleId :
 STOCKPILE-SAMPLES

Tgt Ion: 75 Resp: 98361
 Ion Ratio Lower Upper
 75 100
 53 0.2 92.2 138.4#
 89 0.2 0.0 0.0#

