

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN073025\
 Data File : VN087441.D
 Acq On : 30 Jul 2025 13:45
 Operator : JC\MD
 Sample : Q2729-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 001 willets Pt Blvd(june)

Quant Time: Jul 31 01:14:21 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N072825W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Jul 28 11:35:47 2025
 Response via : Initial Calibration

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

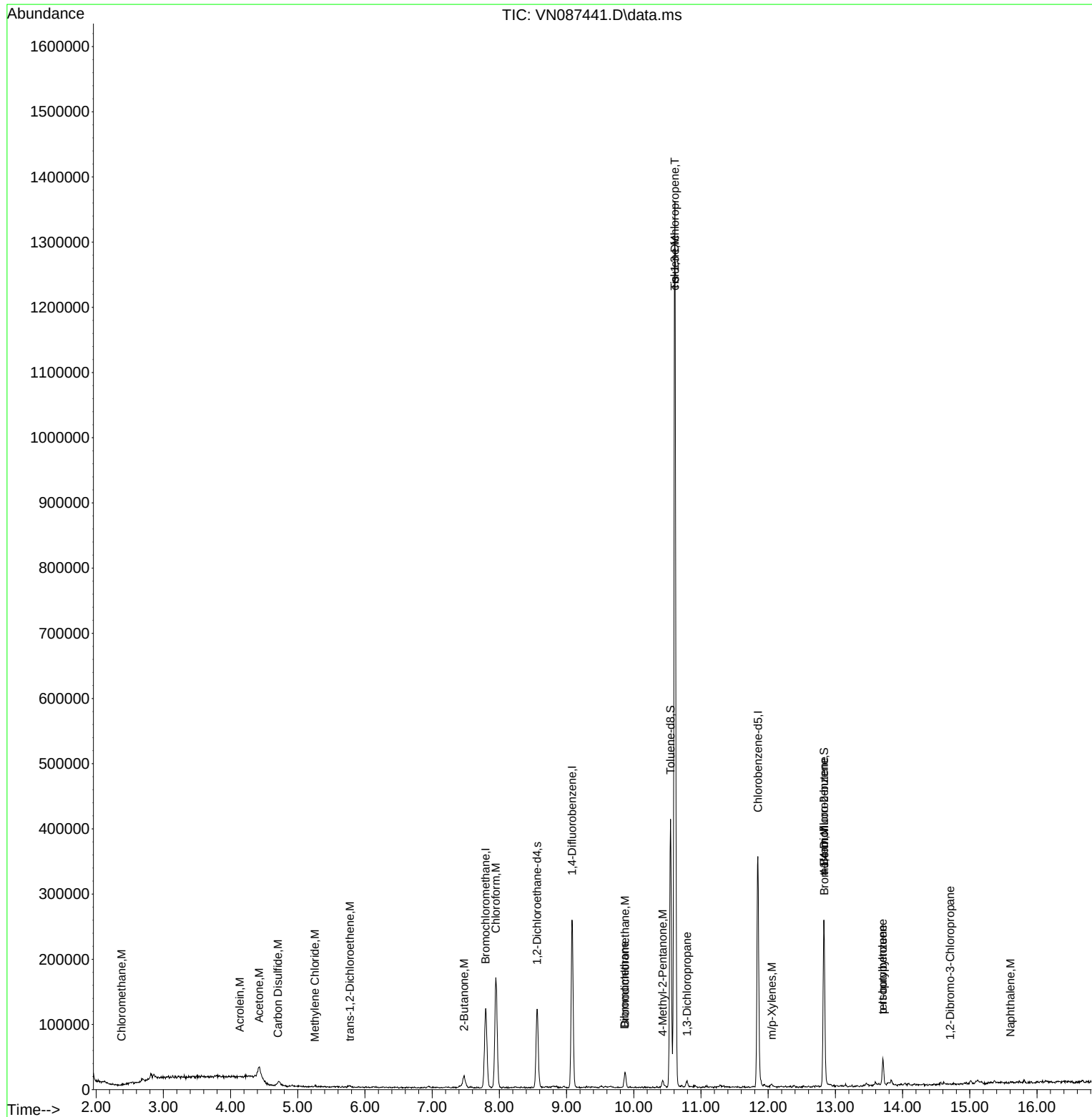
Internal Standards						
1) Bromochloromethane	7.794	128	40103	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	217950	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	191714	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	94634	30.859	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	102.867%
60) 4-Bromofluorobenzene	12.829	95	85641	27.203	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	90.667%
63) Toluene-d8	10.547	98	269216	30.578	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	101.933%
Target Compounds						
					Qvalue	
3) Chloromethane	2.377	50	961	0.387	ug/l #	41
13) Acrolein	4.136	56	691	2.265	ug/l	83
15) Acetone	4.424	58	6844	18.205	ug/l	99
16) Carbon Disulfide	4.706	76	2392	0.392	ug/l #	82
18) Methylene Chloride	5.253	84	1129	0.437	ug/l #	34
19) trans-1,2-Dichloroethene	5.777	96	1432	0.588	ug/l #	39
25) Chloroform	7.947	83	159029	34.172	ug/l	99
30) 2-Butanone	7.477	43	30296	13.515	ug/l	94
40) Dibromomethane	9.865	93	402	0.222	ug/l #	7
41) Bromodichloromethane	9.871	83	15133	4.160	ug/l #	99
49) cis-1,3-Dichloropropene	10.612	75	7540	1.753	ug/l #	1
52) 1,3-Dichloropropane	10.794	76	1416	0.341	ug/l #	41
56) Bromoform	12.835	173	810	0.418	ug/l #	1
58) 4-Methyl-2-Pentanone	10.429	43	7391	1.712	ug/l #	95
62) Toluene	10.612	91	1010309	93.378	ug/l	99
67) m/p-Xylenes	12.053	106	1361	0.307	ug/l #	31
77) t-1,4-Dichloro-2-butene	12.829	75	48058	32.803	ug/l #	14
79) tert-butylbenzene	13.706	119	21662	2.719	ug/l	61
82) p-Isopropyltoluene	13.706	119	21662	2.255	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.706	75	242	0.276	ug/l #	3
91) Naphthalene	15.605	128	2444	0.223	ug/l #	82

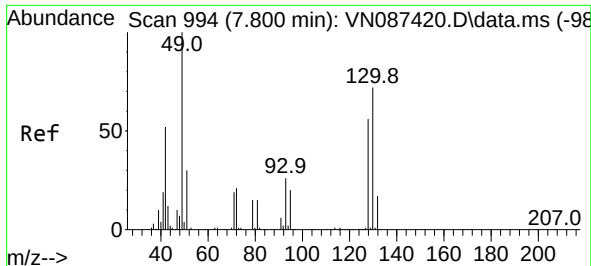
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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001 willets Pt Blvd(june)

Quant Time: Jul 31 01:14:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N072825W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Mon Jul 28 11:35:47 2025
Response via : Initial Calibration

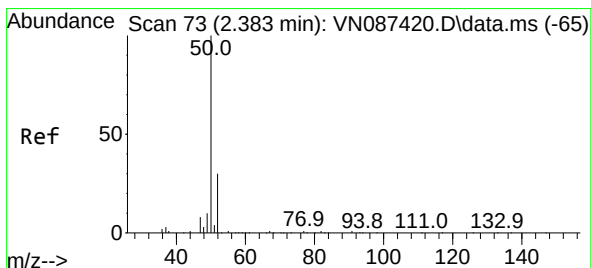
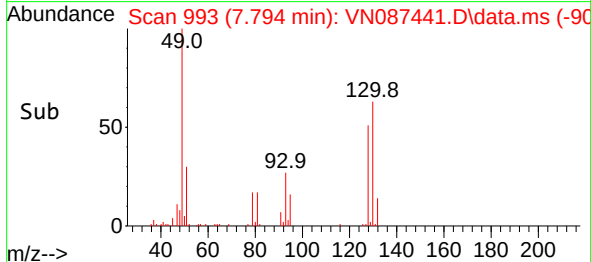
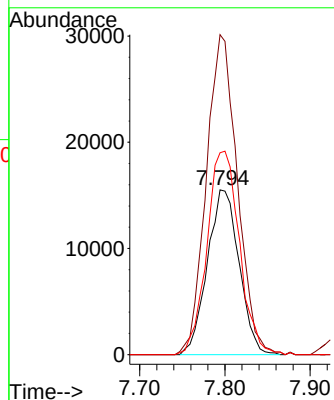
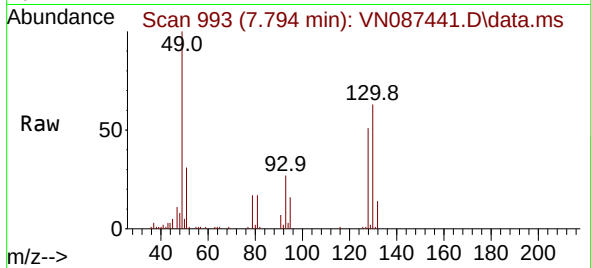




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.794 min Scan# 994
Delta R.T. -0.006 min
Lab File: VN087441.D
Acq: 30 Jul 2025 13:45

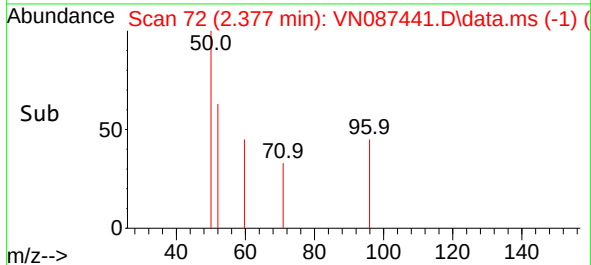
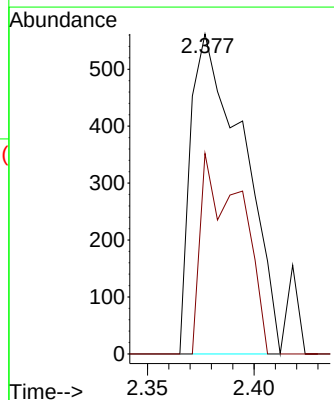
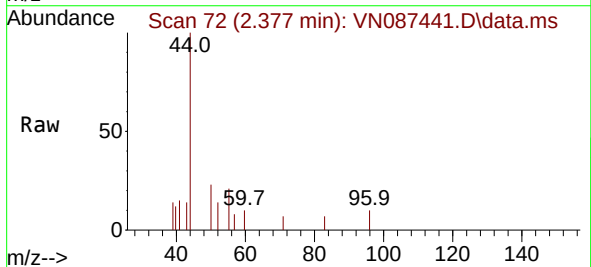
Instrument :
MSVOA_N
ClientSampleId :
001 willets Pt Blvd(june)

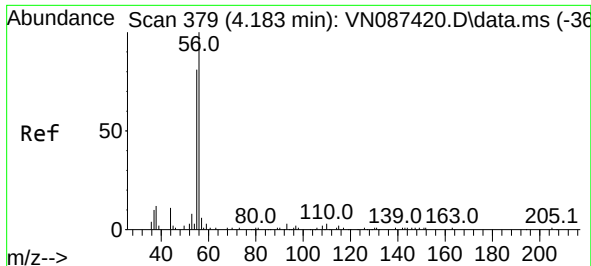
Tgt Ion:128 Resp: 40103
Ion Ratio Lower Upper
128 100
49 190.4 0.0 457.3
130 126.8 0.0 316.0



#3
Chloromethane
Concen: 0.387 ug/l
RT: 2.377 min Scan# 72
Delta R.T. -0.006 min
Lab File: VN087441.D
Acq: 30 Jul 2025 13:45

Tgt Ion: 50 Resp: 961
Ion Ratio Lower Upper
50 100
52 62.6 24.3 36.5

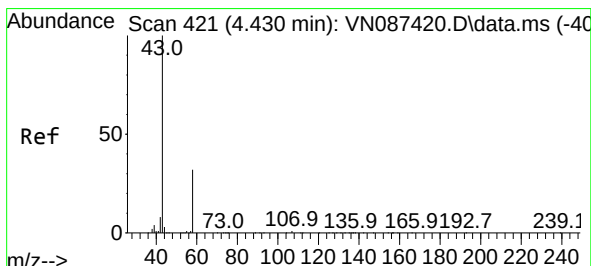
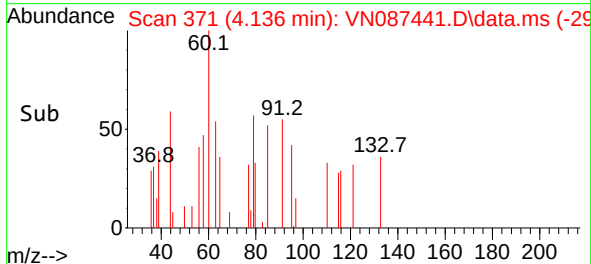
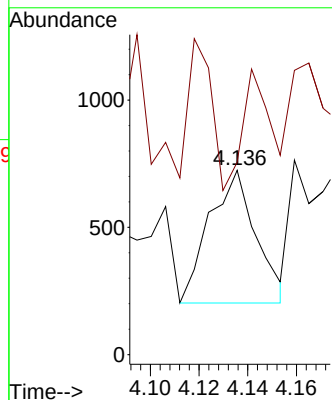
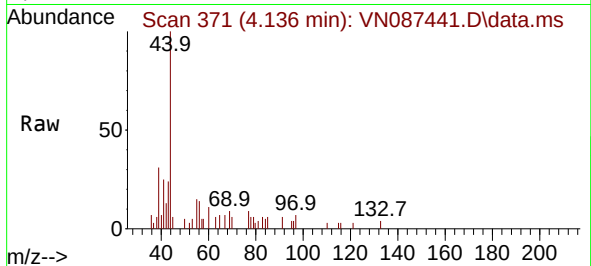




#13
Acrolein
Concen: 2.265 ug/l
RT: 4.136 min Scan# 31
Delta R.T. -0.047 min
Lab File: VN087441.D
Acq: 30 Jul 2025 13:45

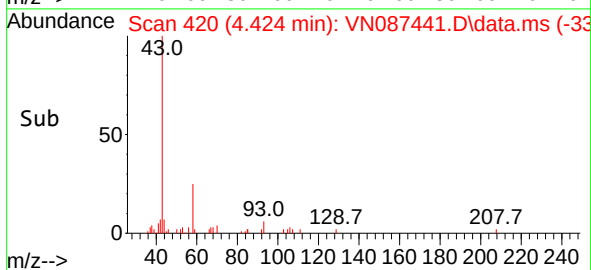
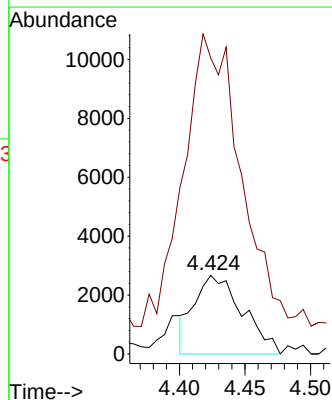
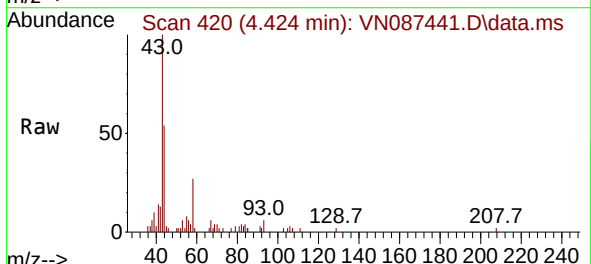
Instrument :
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ClientSampleId :
001 willets Pt Blvd(june)

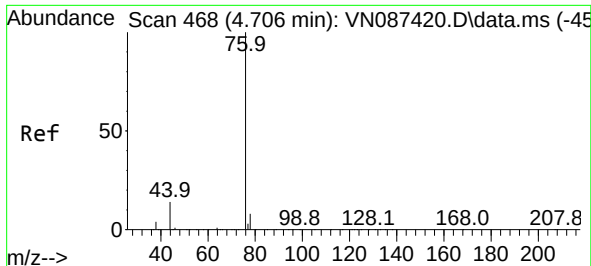
Tgt Ion: 56 Resp: 691
Ion Ratio Lower Upper
56 100
55 59.0 58.9 88.3



#15
Acetone
Concen: 18.205 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.006 min
Lab File: VN087441.D
Acq: 30 Jul 2025 13:45

Tgt Ion: 58 Resp: 6844
Ion Ratio Lower Upper
58 100
43 308.5 248.4 372.6

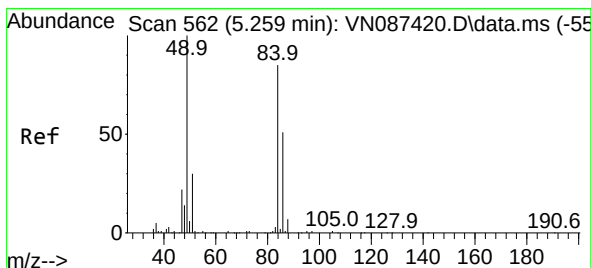
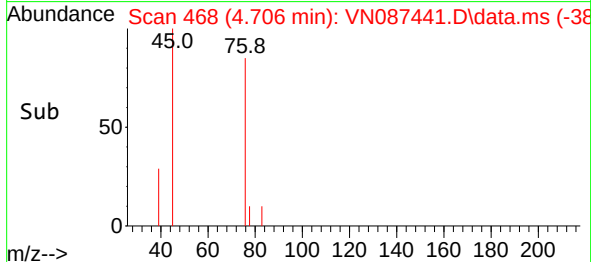
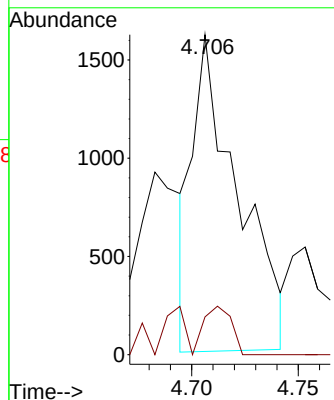
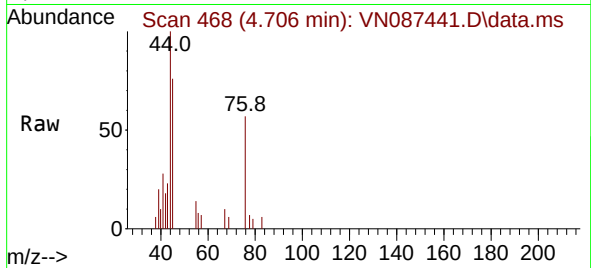




#16
Carbon Disulfide
Concen: 0.392 ug/l
RT: 4.706 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN087441.D
Acq: 30 Jul 2025 13:45

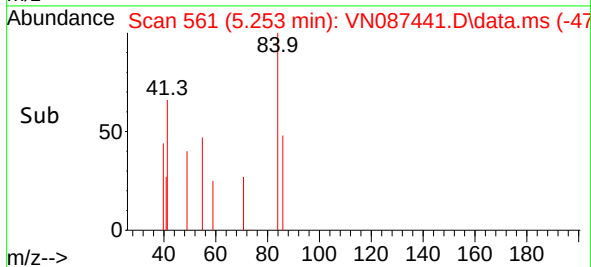
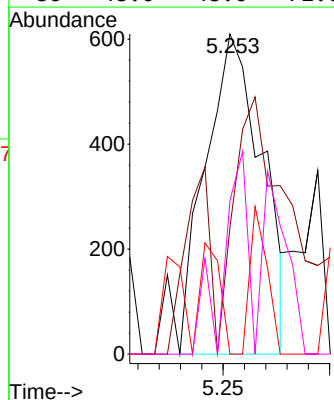
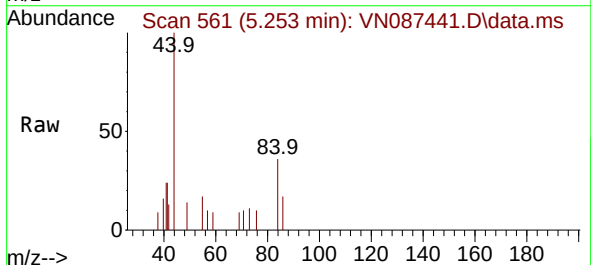
Instrument :
MSVOA_N
ClientSampleId :
001 willets Pt Blvd(june)

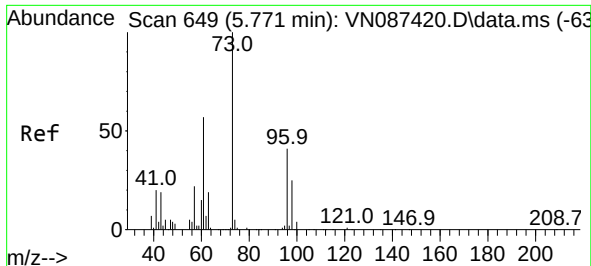
Tgt Ion: 76 Resp: 2392
Ion Ratio Lower Upper
76 100
78 14.6 6.6 10.0#



#18
Methylene Chloride
Concen: 0.437 ug/l
RT: 5.253 min Scan# 561
Delta R.T. -0.006 min
Lab File: VN087441.D
Acq: 30 Jul 2025 13:45

Tgt Ion: 84 Resp: 1129
Ion Ratio Lower Upper
84 100
49 14.6 93.5 140.3#
51 0.0 28.0 42.0#
86 48.0 48.0 72.0

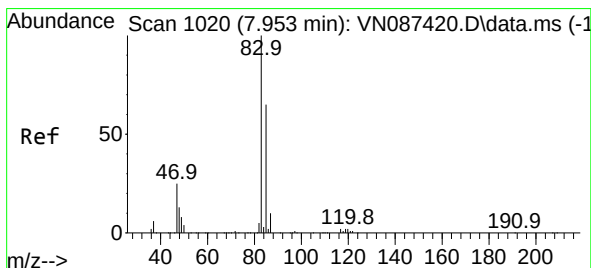
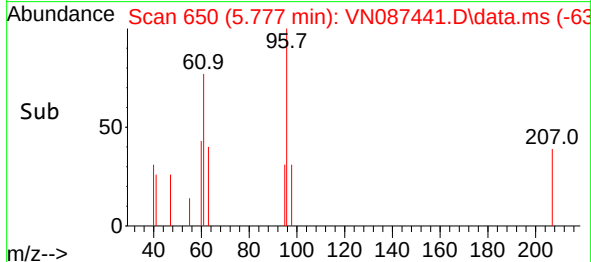
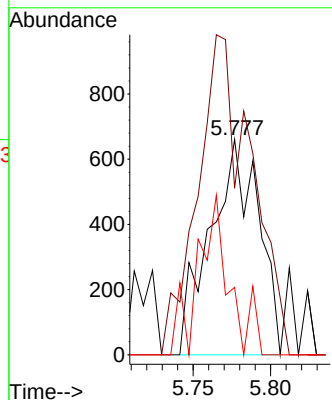
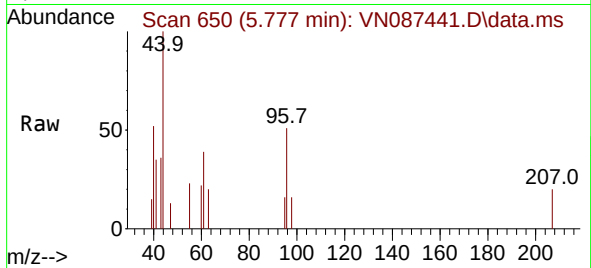




#19
trans-1,2-Dichloroethene
Concen: 0.588 ug/l
RT: 5.777 min Scan# 61
Delta R.T. 0.006 min
Lab File: VN087441.D
Acq: 30 Jul 2025 13:45

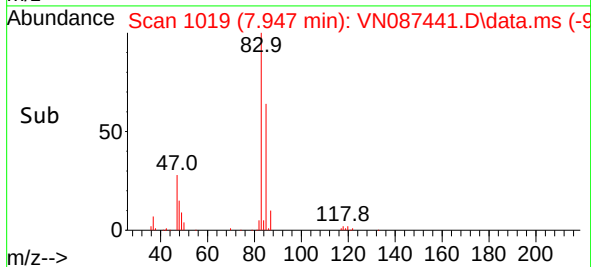
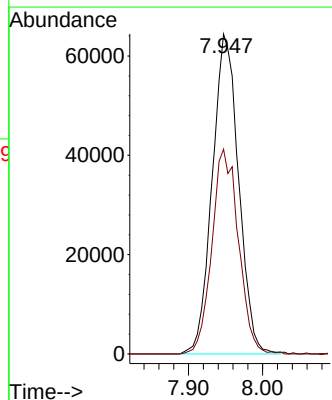
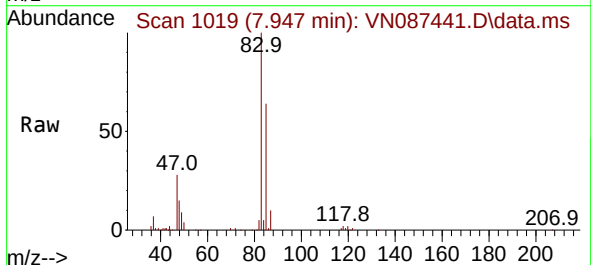
Instrument :
MSVOA_N
ClientSampleId :
001 willets Pt Blvd(june)

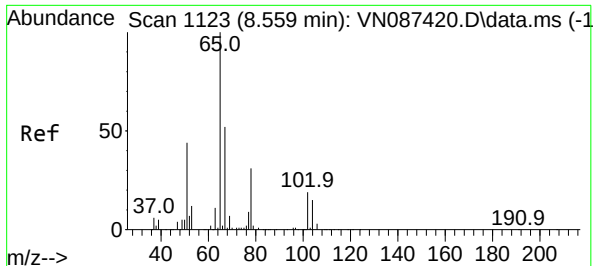
Tgt Ion: 96 Resp: 1432
Ion Ratio Lower Upper
96 100
61 52.8 110.2 165.4#
98 31.3 47.9 71.9#



#25
Chloroform
Concen: 34.172 ug/l
RT: 7.947 min Scan# 1019
Delta R.T. -0.006 min
Lab File: VN087441.D
Acq: 30 Jul 2025 13:45

Tgt Ion: 83 Resp: 159029
Ion Ratio Lower Upper
83 100
85 64.0 52.0 78.0

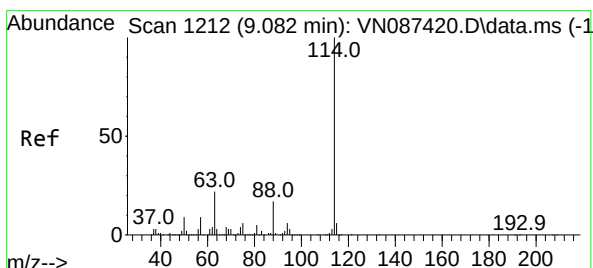
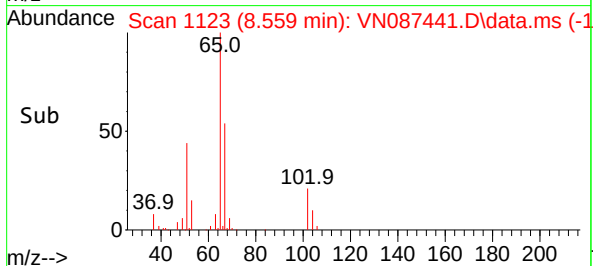
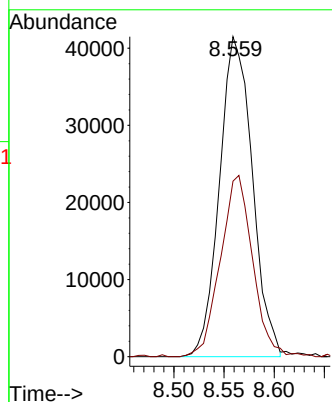
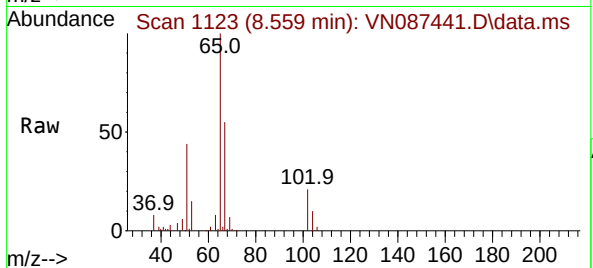




#27
 1,2-Dichloroethane-d4
 Concen: 30.859 ug/l
 RT: 8.559 min Scan# 1123
 Delta R.T. -0.000 min
 Lab File: VN087441.D
 Acq: 30 Jul 2025 13:45

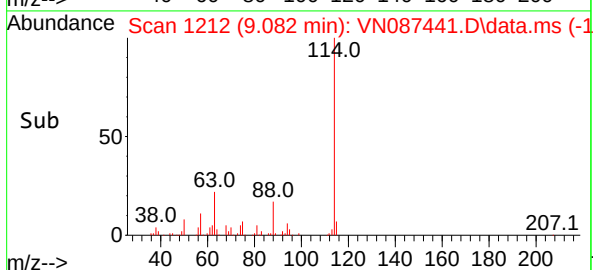
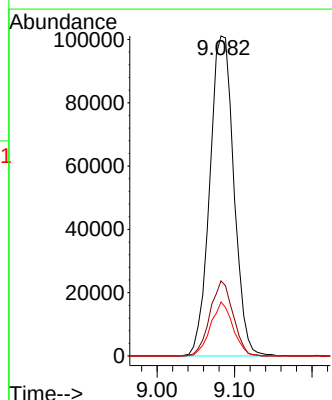
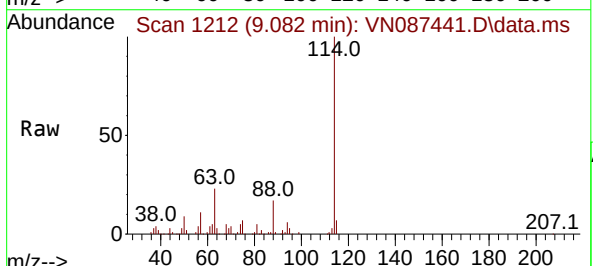
Instrument :
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 001 willets Pt Blvd(june)

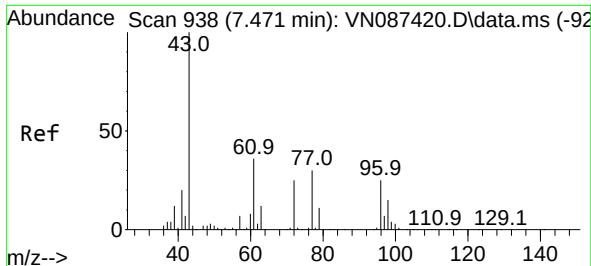
Tgt Ion: 65 Resp: 94634
 Ion Ratio Lower Upper
 65 100
 67 55.2 42.3 63.5



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 9.082 min Scan# 1212
 Delta R.T. -0.000 min
 Lab File: VN087441.D
 Acq: 30 Jul 2025 13:45

Tgt Ion: 114 Resp: 217950
 Ion Ratio Lower Upper
 114 100
 63 22.4 17.8 26.6
 88 15.7 13.0 19.4

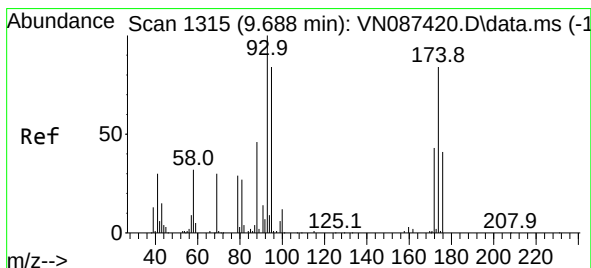
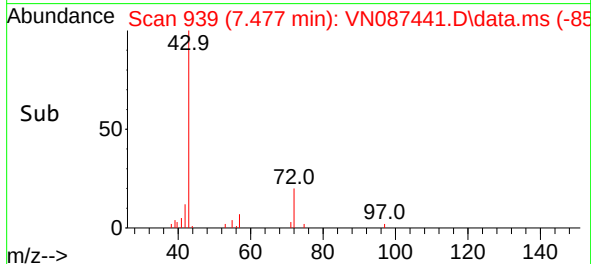
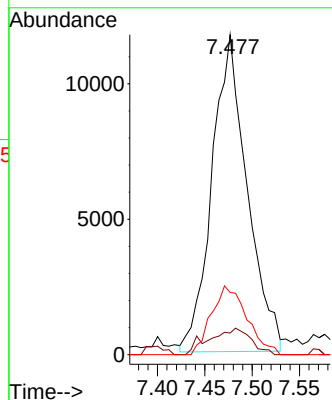
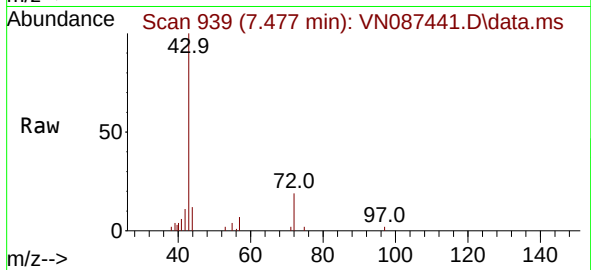




#30
2-Butanone
Concen: 13.515 ug/l
RT: 7.477 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN087441.D
Acq: 30 Jul 2025 13:45

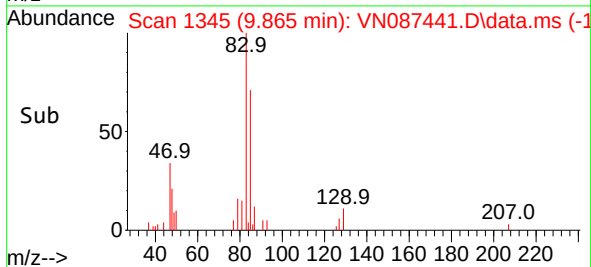
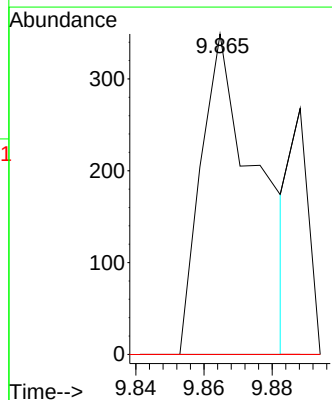
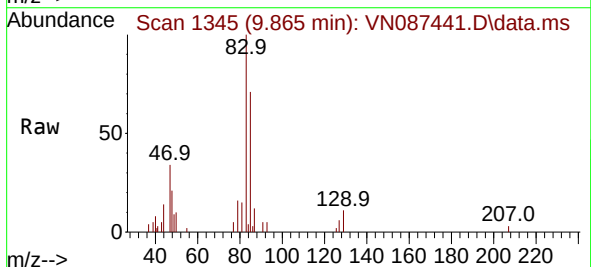
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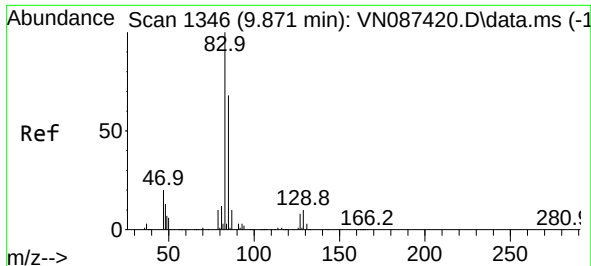
Tgt Ion: 43 Resp: 30296
Ion Ratio Lower Upper
43 100
57 6.3 6.0 9.0
72 21.9 20.3 30.5



#40
Dibromomethane
Concen: 0.222 ug/l
RT: 9.865 min Scan# 1345
Delta R.T. 0.176 min
Lab File: VN087441.D
Acq: 30 Jul 2025 13:45

Tgt Ion: 93 Resp: 402
Ion Ratio Lower Upper
93 100
95 0.0 0.0 164.8
174 0.0 0.0 174.4

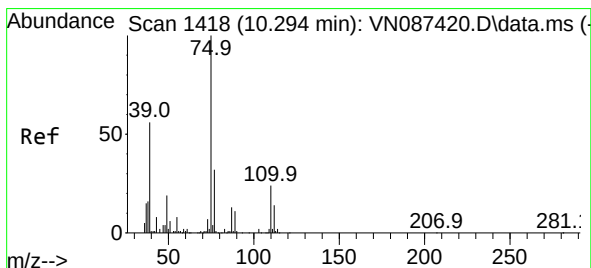
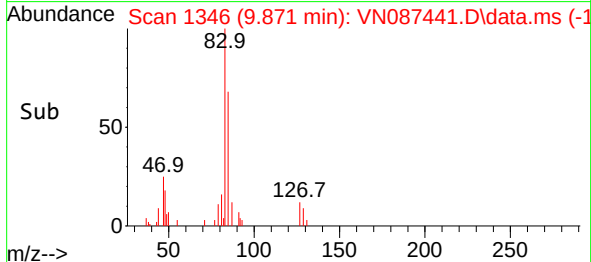
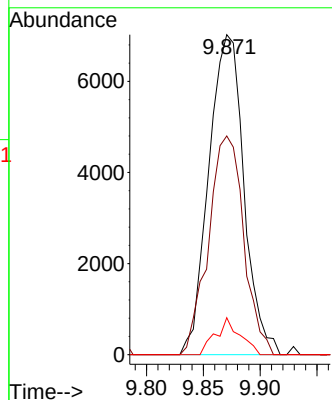
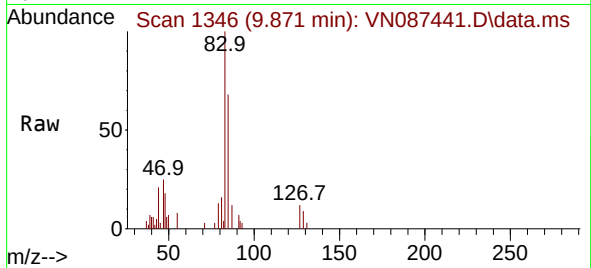




#41
Bromodichloromethane
Concen: 4.160 ug/l
RT: 9.871 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN087441.D
Acq: 30 Jul 2025 13:45

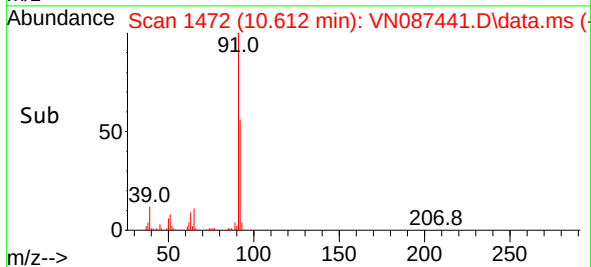
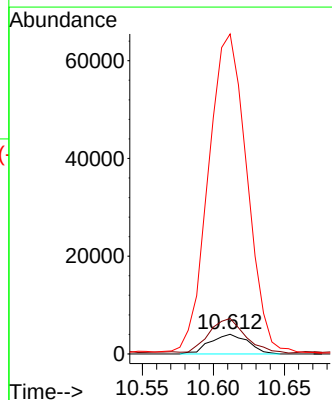
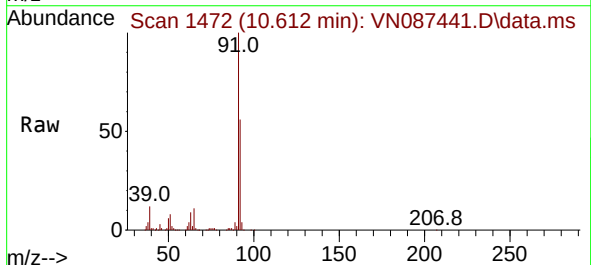
Instrument :
MSVOA_N
ClientSampleId :
001 willets Pt Blvd(june)

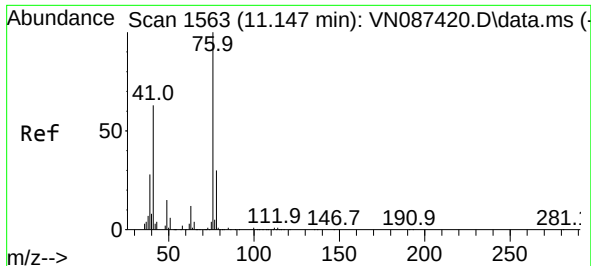
Tgt Ion: 83 Resp: 15133
Ion Ratio Lower Upper
83 100
85 68.3 54.5 81.7
127 11.5 6.6 10.0#



#49
cis-1,3-Dichloropropene
Concen: 1.753 ug/l
RT: 10.612 min Scan# 1472
Delta R.T. 0.318 min
Lab File: VN087441.D
Acq: 30 Jul 2025 13:45

Tgt Ion: 75 Resp: 7540
Ion Ratio Lower Upper
75 100
77 172.3 26.1 39.1#
39 1601.1 45.0 67.4#

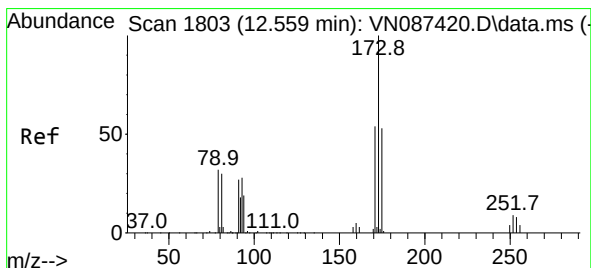
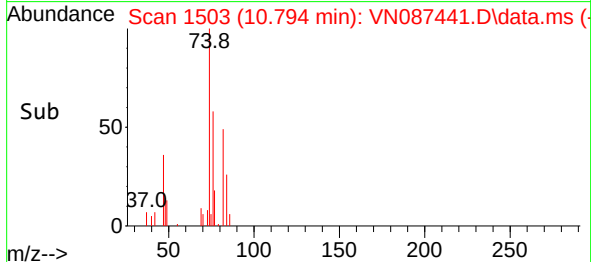
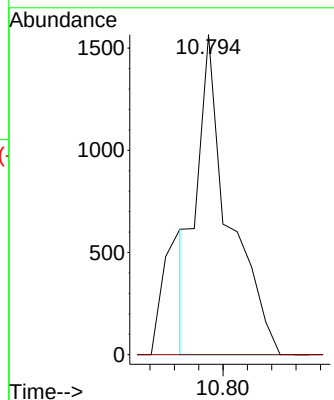
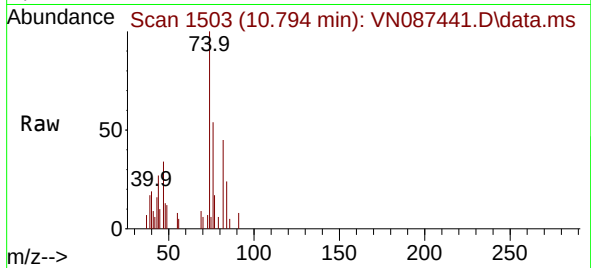




#52
1,3-Dichloropropane
Concen: 0.341 ug/l
RT: 10.794 min Scan# 11
Delta R.T. -0.353 min
Lab File: VN087441.D
Acq: 30 Jul 2025 13:45

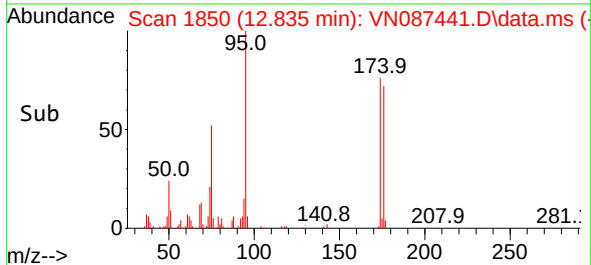
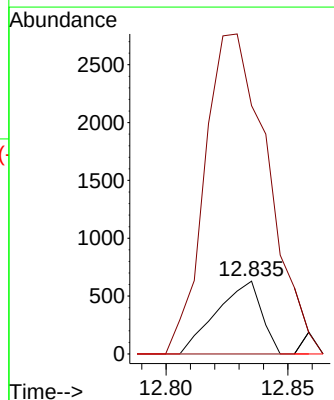
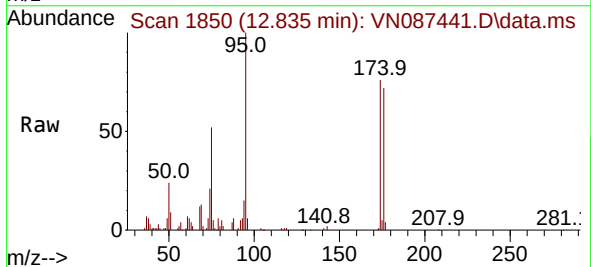
Instrument :
MSVOA_N
ClientSampleId :
001 willets Pt Blvd(june)

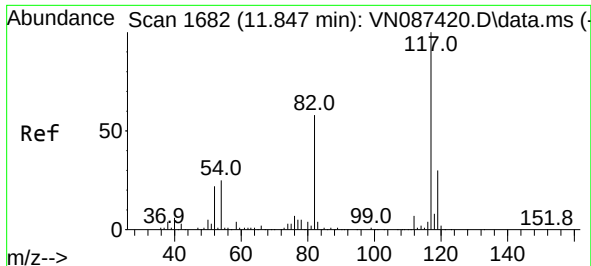
Tgt Ion: 76 Resp: 1416
Ion Ratio Lower Upper
76 100
78 0.0 0.0 67.4



#56
Bromoform
Concen: 0.418 ug/l
RT: 12.835 min Scan# 1850
Delta R.T. 0.276 min
Lab File: VN087441.D
Acq: 30 Jul 2025 13:45

Tgt Ion:173 Resp: 810
Ion Ratio Lower Upper
173 100
175 614.2 38.4 57.6#
254 0.0 6.4 9.6#

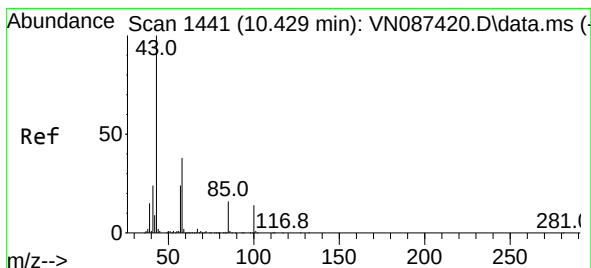
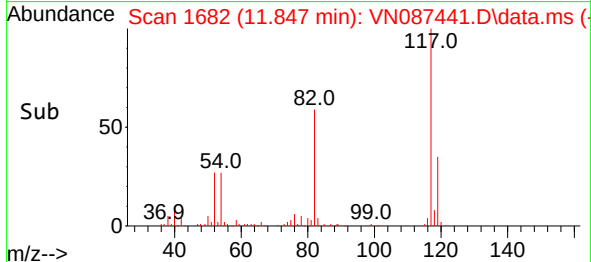
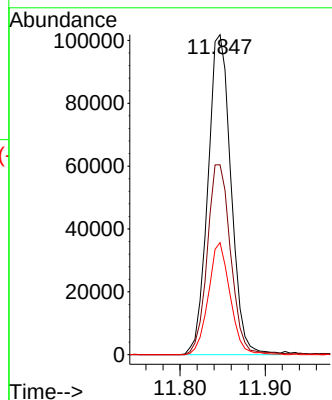
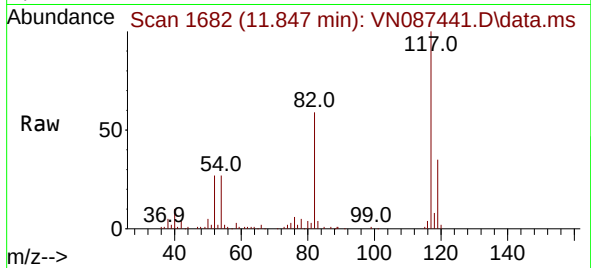




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.847 min Scan# 1682
Delta R.T. -0.000 min
Lab File: VN087441.D
Acq: 30 Jul 2025 13:45

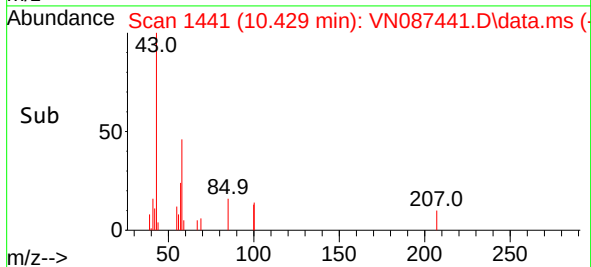
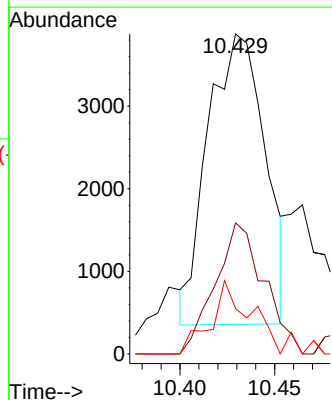
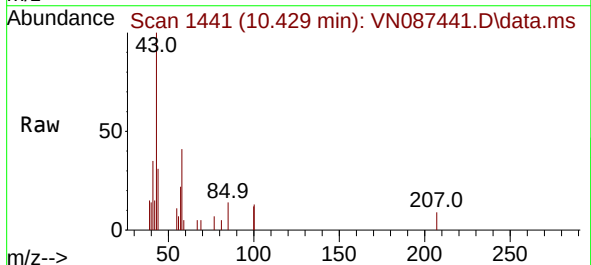
Instrument :
MSVOA_N
ClientSampleId :
001 willets Pt Blvd(june)

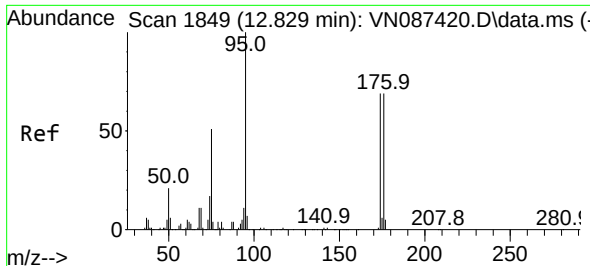
Tgt Ion:117 Resp: 191714
Ion Ratio Lower Upper
117 100
82 60.4 46.2 69.4
119 33.1 25.7 38.5



#58
4-Methyl-2-Pentanone
Concen: 1.712 ug/l
RT: 10.429 min Scan# 1441
Delta R.T. -0.000 min
Lab File: VN087441.D
Acq: 30 Jul 2025 13:45

Tgt Ion: 43 Resp: 7391
Ion Ratio Lower Upper
43 100
58 38.4 29.9 44.9
85 10.4 12.8 19.2#

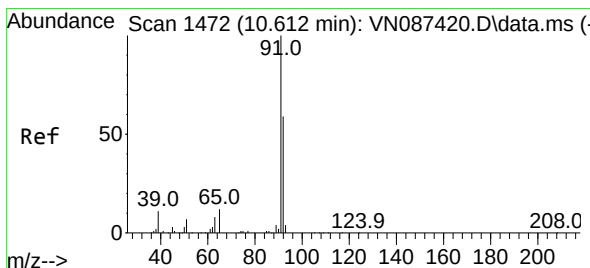
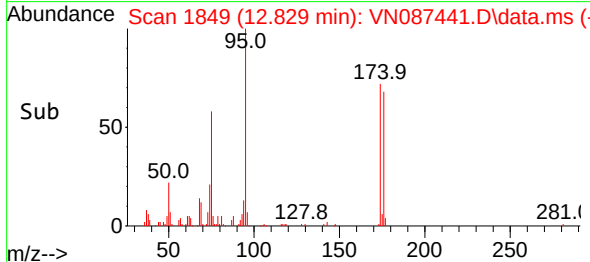
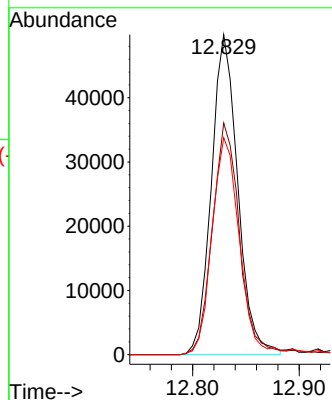
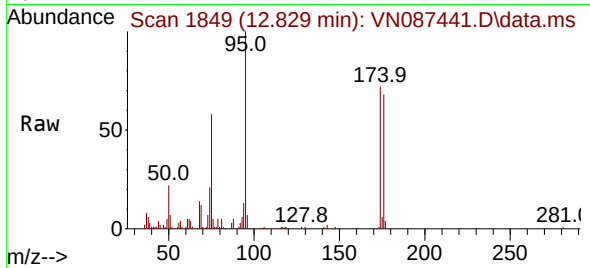




#60
4-Bromofluorobenzene
Concen: 27.203 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.000 min
Lab File: VN087441.D
Acq: 30 Jul 2025 13:45

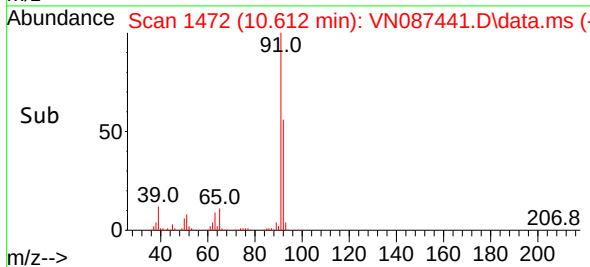
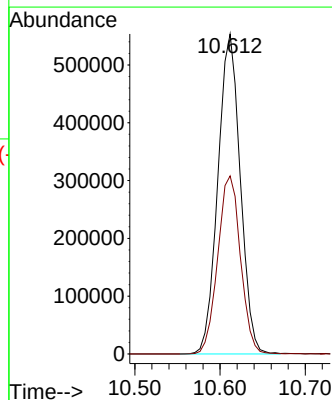
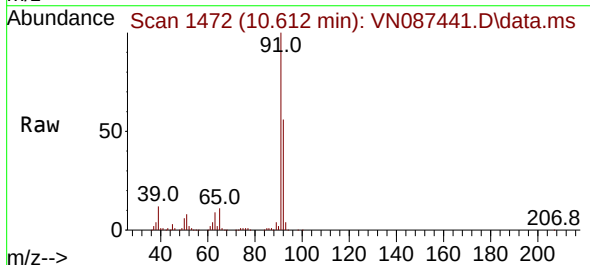
Instrument :
MSVOA_N
ClientSampleId :
001 willets Pt Blvd(june)

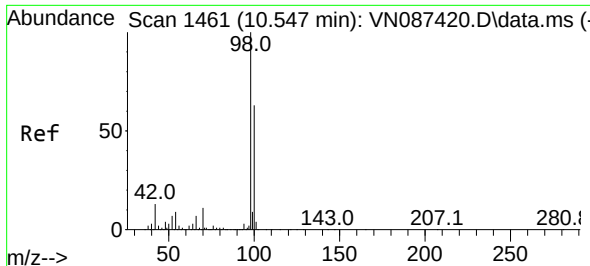
Tgt Ion: 95 Resp: 85641
Ion Ratio Lower Upper
95 100
174 73.7 57.8 86.8
176 70.3 54.9 82.3



#62
Toluene
Concen: 93.378 ug/l
RT: 10.612 min Scan# 1472
Delta R.T. -0.000 min
Lab File: VN087441.D
Acq: 30 Jul 2025 13:45

Tgt Ion: 91 Resp: 1010309
Ion Ratio Lower Upper
91 100
92 56.5 45.6 68.4

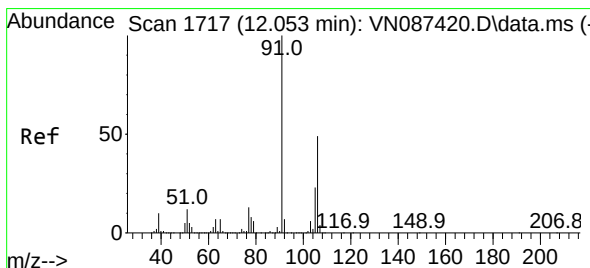
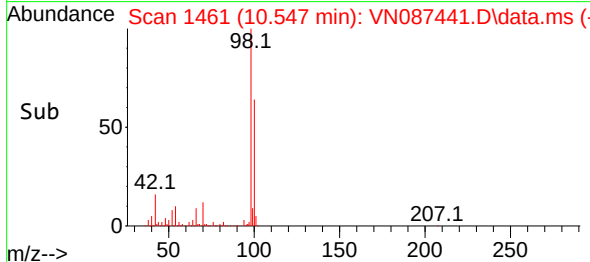
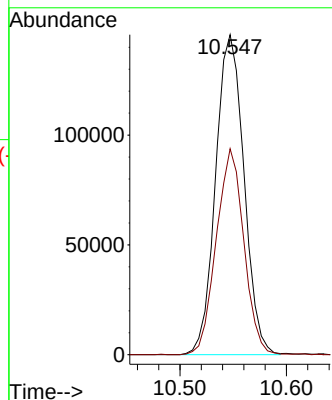
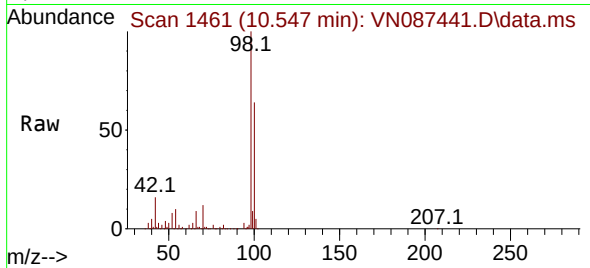




#63
Toluene-d8
Concen: 30.578 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN087441.D
Acq: 30 Jul 2025 13:45

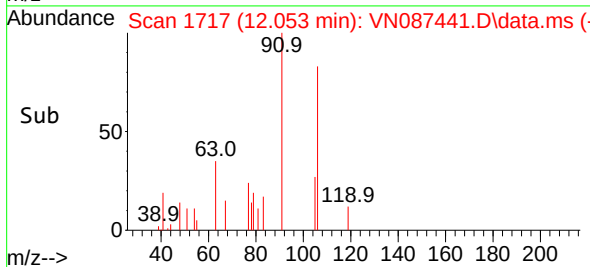
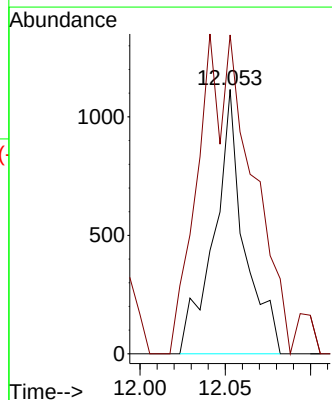
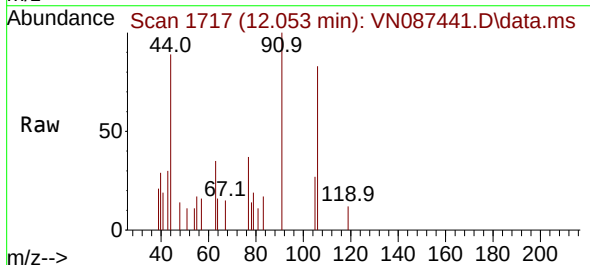
Instrument :
MSVOA_N
ClientSampleId :
001 willets Pt Blvd(june)

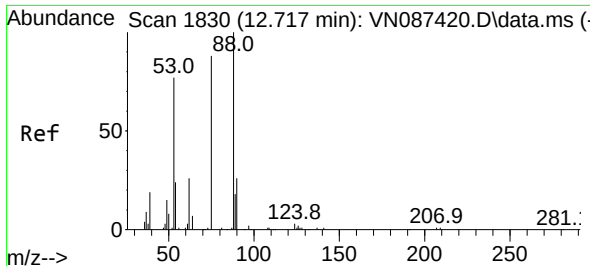
Tgt Ion: 98 Resp: 269216
Ion Ratio Lower Upper
98 100
100 62.6 50.7 76.1



#67
m/p-Xylenes
Concen: 0.307 ug/l
RT: 12.053 min Scan# 1717
Delta R.T. -0.000 min
Lab File: VN087441.D
Acq: 30 Jul 2025 13:45

Tgt Ion:106 Resp: 1361
Ion Ratio Lower Upper
106 100
91 100.1 165.4 248.2#

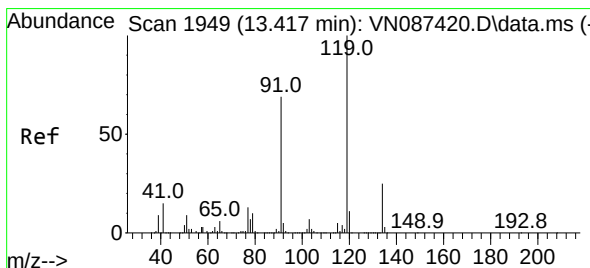
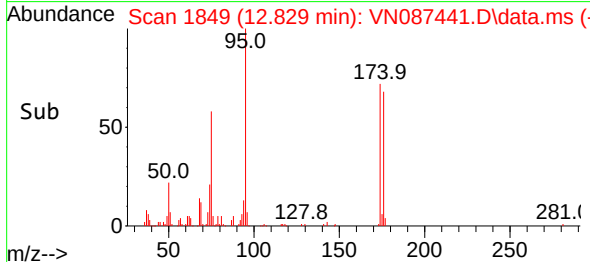
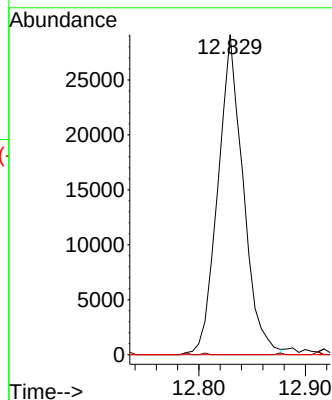
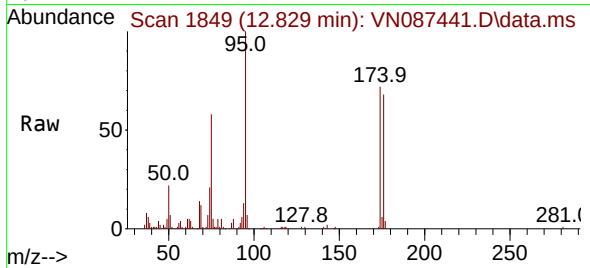




#77
t-1,4-Dichloro-2-butene
Concen: 32.803 ug/l
RT: 12.829 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN087441.D
Acq: 30 Jul 2025 13:45

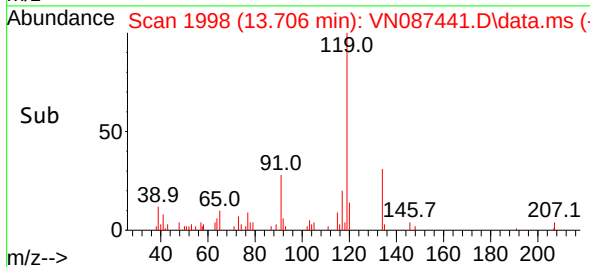
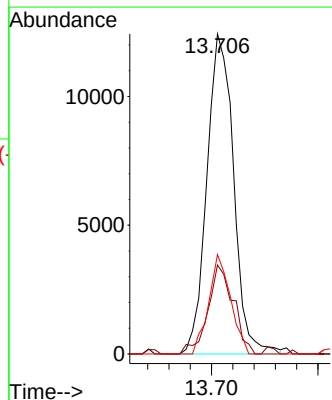
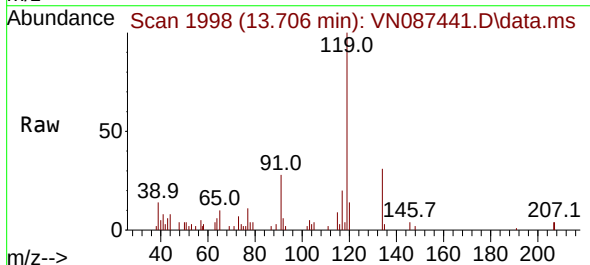
Instrument :
MSVOA_N
ClientSampleId :
001 willets Pt Blvd(june)

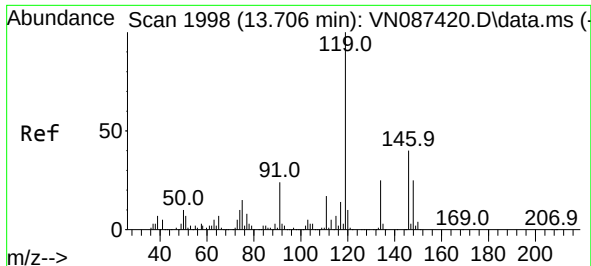
Tgt Ion: 75 Resp: 48058
Ion Ratio Lower Upper
75 100
53 0.0 44.3 132.8#
89 0.0 22.4 67.3#



#79
tert-butylbenzene
Concen: 2.719 ug/l
RT: 13.706 min Scan# 1998
Delta R.T. 0.288 min
Lab File: VN087441.D
Acq: 30 Jul 2025 13:45

Tgt Ion: 119 Resp: 21662
Ion Ratio Lower Upper
119 100
91 25.3 0.0 135.4
134 25.4 0.0 49.2

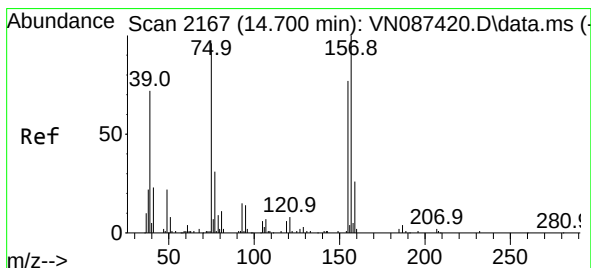
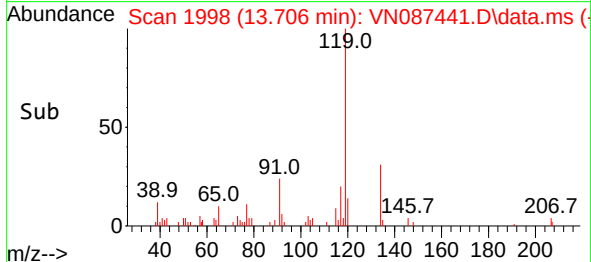
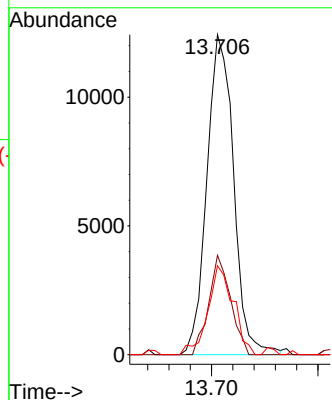
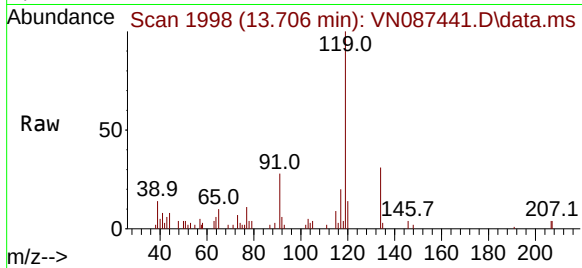




#82
 p-Isopropyltoluene
 Concen: 2.255 ug/l
 RT: 13.706 min Scan# 1998
 Delta R.T. -0.000 min
 Lab File: VN087441.D
 Acq: 30 Jul 2025 13:45

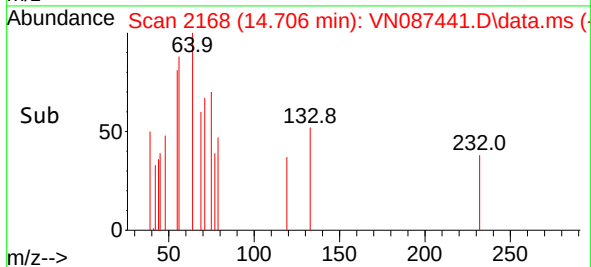
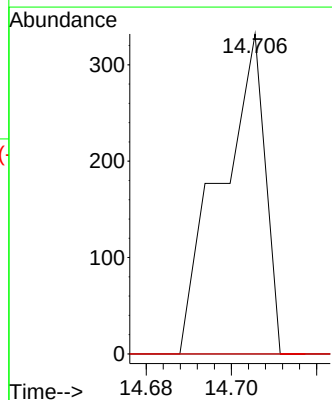
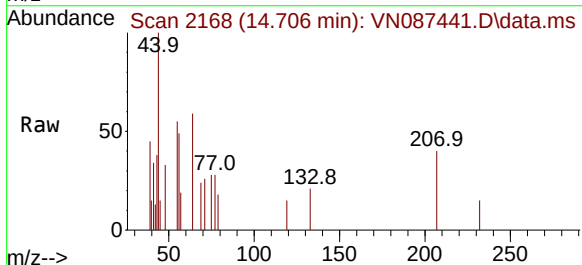
Instrument :
 MSVOA_N
 ClientSampleId :
 001 willets Pt Blvd(june)

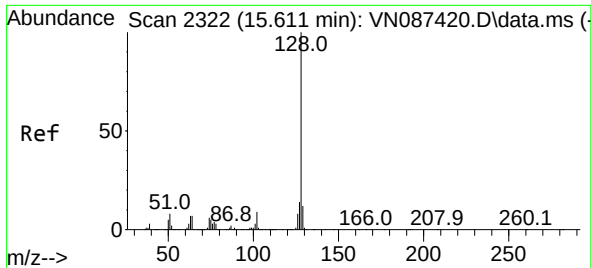
Tgt Ion:	119	Resp:	21662
Ion Ratio	Lower	Upper	
119	100		
134	25.4	0.0	50.8
91	25.3	0.0	47.6



#88
 1,2-Dibromo-3-Chloropropane
 Concen: 0.276 ug/l
 RT: 14.706 min Scan# 2168
 Delta R.T. 0.006 min
 Lab File: VN087441.D
 Acq: 30 Jul 2025 13:45

Tgt Ion:	75	Resp:	242
Ion Ratio	Lower	Upper	
75	100		
155	0.0	64.4	96.6#
157	0.0	82.3	123.5#





#91

Naphthalene

Concen: 0.223 ug/l

RT: 15.605 min Scan# 21

Delta R.T. -0.006 min

Lab File: VN087441.D

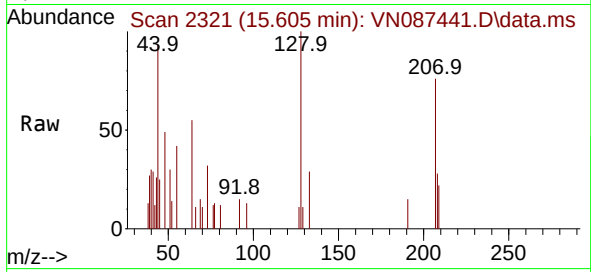
Acq: 30 Jul 2025 13:45

Instrument :

MSVOA_N

ClientSampleId :

001 willets Pt Blvd(june)



Tgt Ion:128 Resp: 2444

Ion Ratio Lower Upper

128 100

127 4.7 10.7 16.1#

129 6.5 9.1 13.7#

