

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082025\
 Data File : VN087612.D
 Acq On : 20 Aug 2025 13:03
 Operator : JC\MD
 Sample : Q2904-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

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

Quant Time: Aug 21 02:44:12 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 06 02:01:21 2025
 Response via : Initial Calibration

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

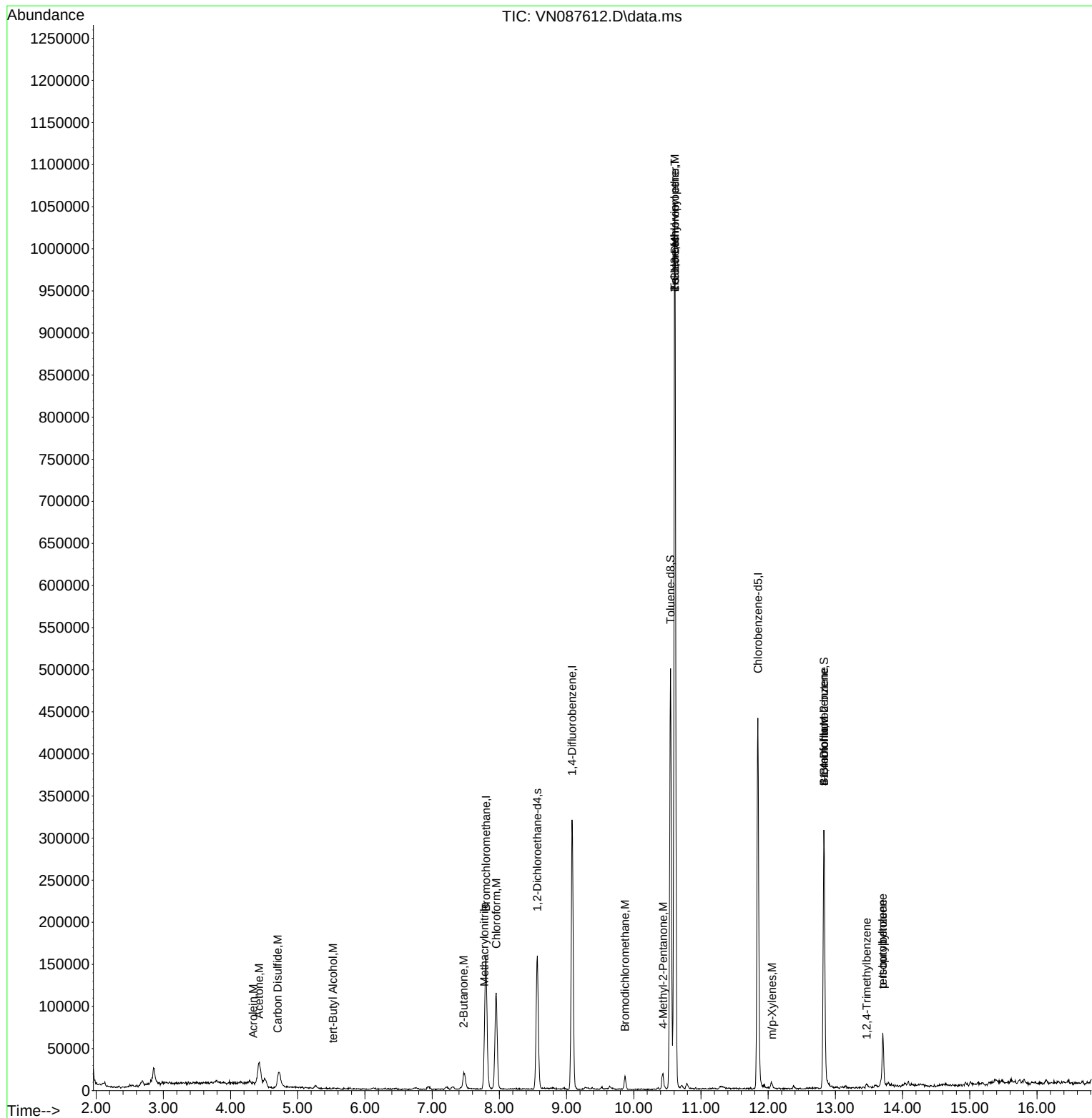
Internal Standards						
1) Bromochloromethane	7.800	128	48872	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	262809	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	236696	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.565	65	129554	28.741	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	95.800%
60) 4-Bromofluorobenzene	12.829	95	108549	26.648	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	88.833%
63) Toluene-d8	10.547	98	319054	29.295	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	97.667%
Target Compounds						
					Qvalue	
13) Acrolein	4.336	56	295	0.391	ug/l	99
15) Acetone	4.424	58	14317	23.231	ug/l	96
16) Carbon Disulfide	4.700	76	3368	0.406	ug/l	98
23) tert-Butyl Alcohol	5.524	59	565	0.616	ug/l #	100
25) Chloroform	7.953	83	104759	15.622	ug/l	100
30) 2-Butanone	7.471	43	32443	10.268	ug/l #	92
35) Methacrylonitrile	7.777	41	1061	0.311	ug/l #	59
41) Bromodichloromethane	9.871	83	9300	1.719	ug/l #	93
49) cis-1,3-Dichloropropene	10.612	75	6451	1.089	ug/l #	1
55) 2-Chloroethyl vinyl ether	10.612	63	61836	20.280	ug/l #	1
56) Bromoform	12.829	173	1322	0.526	ug/l #	1
58) 4-Methyl-2-Pentanone	10.435	43	14294	2.348	ug/l #	55
62) Toluene	10.612	91	779699	53.372	ug/l	99
67) m/p-Xylenes	12.059	106	1985	0.332	ug/l	89
77) t-1,4-Dichloro-2-butene	12.829	75	61753	34.211	ug/l #	3
79) tert-butylbenzene	13.706	119	35142	3.259	ug/l	58
80) 1,2,4-Trimethylbenzene	13.464	105	2684	0.210	ug/l	98
82) p-Isopropyltoluene	13.706	119	35142	2.696	ug/l	99

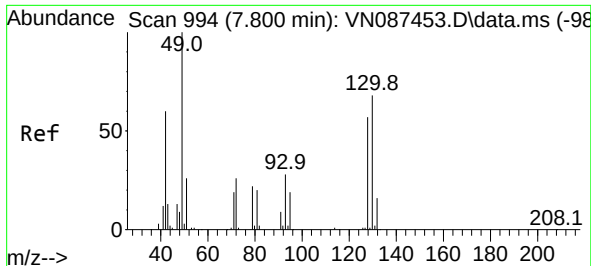
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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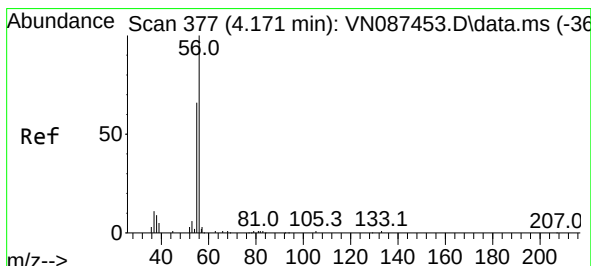
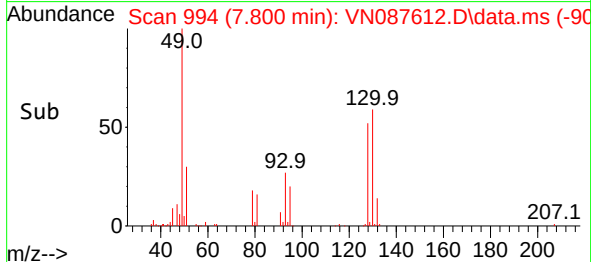
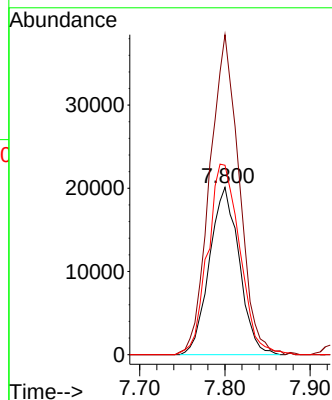
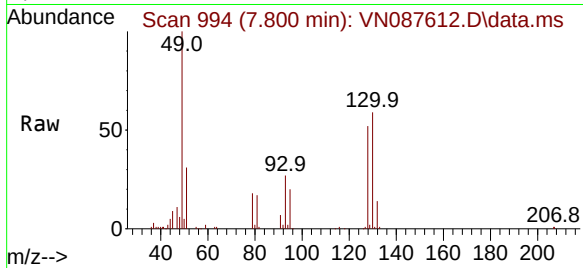




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.800 min Scan# 994
Delta R.T. 0.000 min
Lab File: VN087612.D
Acq: 20 Aug 2025 13:03

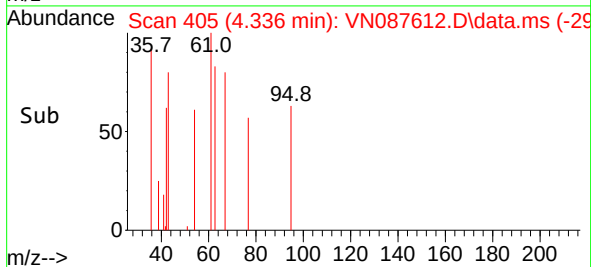
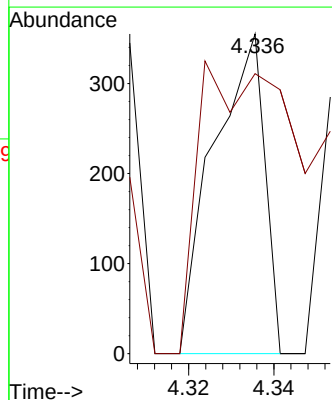
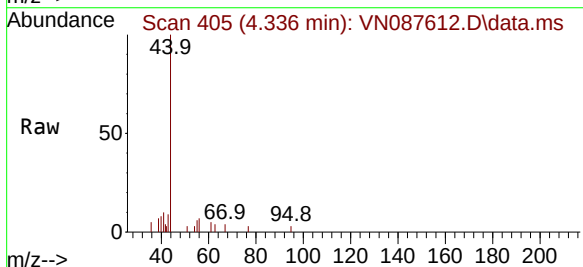
Instrument :
MSVOA_N
ClientSampleId :
001 willets Pt Blvd(july)

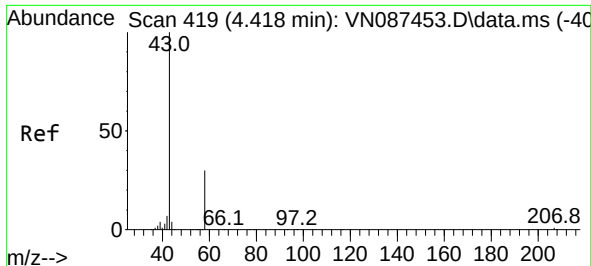
Tgt Ion:128 Resp: 48872
Ion Ratio Lower Upper
128 100
49 188.6 0.0 494.8
130 122.9 0.0 321.5



#13
Acrolein
Concen: 0.391 ug/l
RT: 4.336 min Scan# 405
Delta R.T. 0.165 min
Lab File: VN087612.D
Acq: 20 Aug 2025 13:03

Tgt Ion: 56 Resp: 295
Ion Ratio Lower Upper
56 100
55 70.8 57.4 86.0

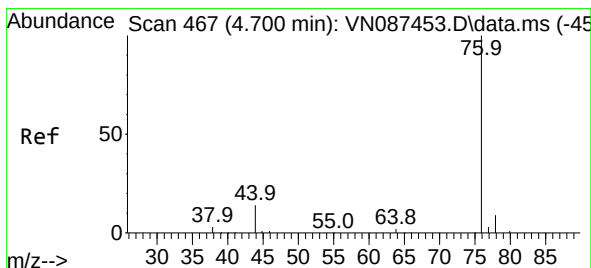
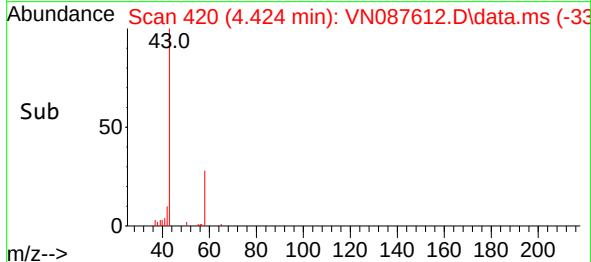
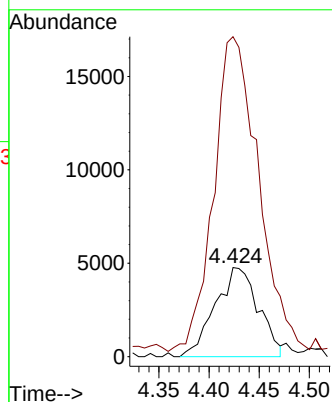
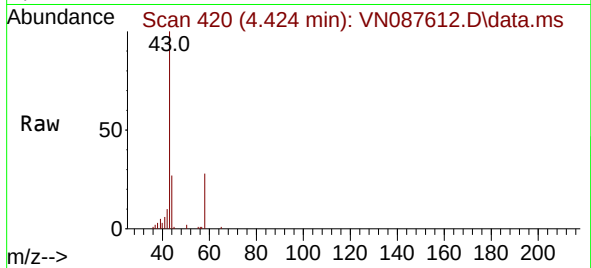




#15
Acetone
Concen: 23.231 ug/l
RT: 4.424 min Scan# 419
Delta R.T. 0.006 min
Lab File: VN087612.D
Acq: 20 Aug 2025 13:03

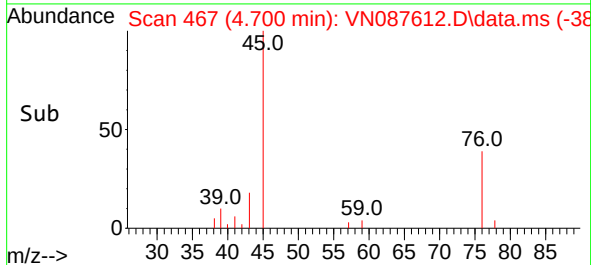
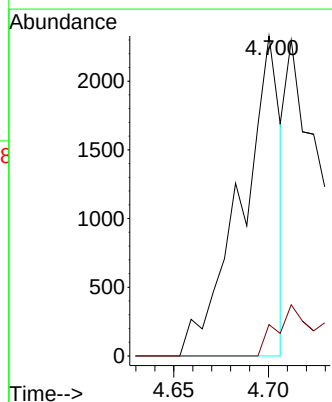
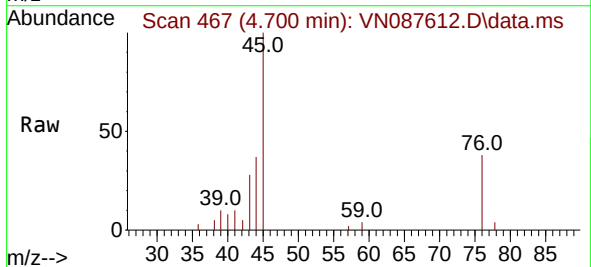
Instrument :
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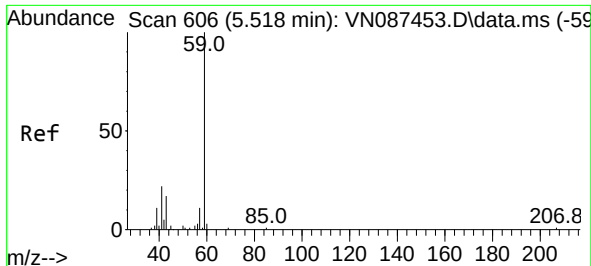
Tgt Ion: 58 Resp: 14317
Ion Ratio Lower Upper
58 100
43 344.6 268.9 403.3



#16
Carbon Disulfide
Concen: 0.406 ug/l
RT: 4.700 min Scan# 467
Delta R.T. -0.000 min
Lab File: VN087612.D
Acq: 20 Aug 2025 13:03

Tgt Ion: 76 Resp: 3368
Ion Ratio Lower Upper
76 100
78 9.8 7.1 10.7

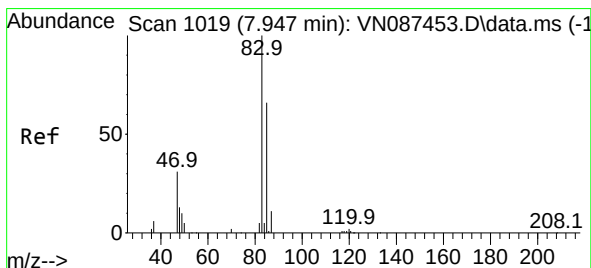
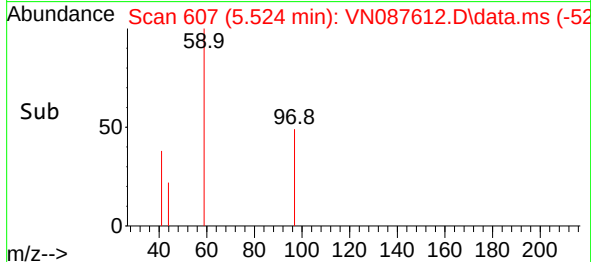
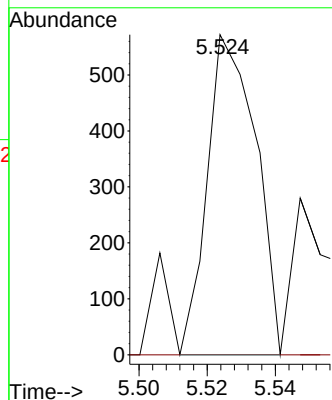
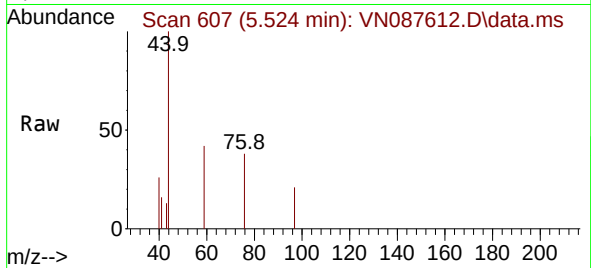




#23
tert-Butyl Alcohol
Concen: 0.616 ug/l
RT: 5.524 min Scan# 606
Delta R.T. 0.006 min
Lab File: VN087612.D
Acq: 20 Aug 2025 13:03

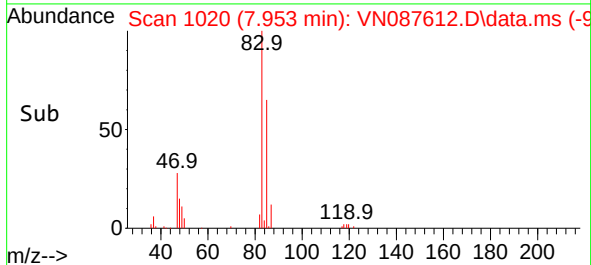
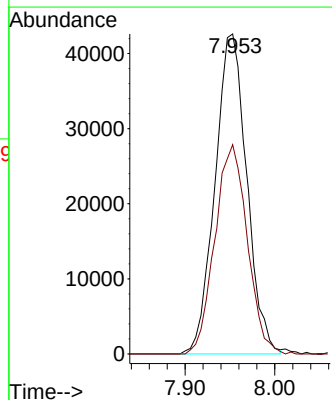
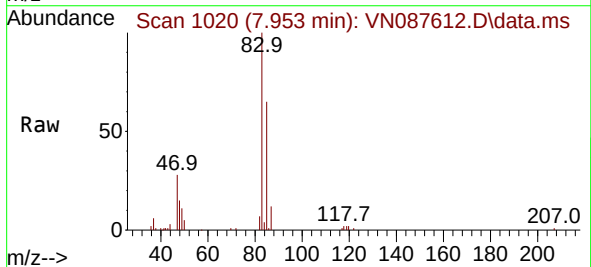
Instrument :
MSVOA_N
ClientSampleId :
001 willets Pt Blvd(july)

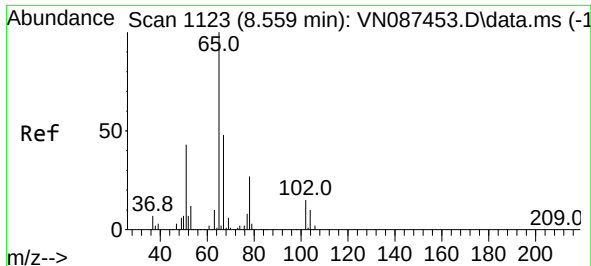
Tgt Ion: 59 Resp: 565
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#25
Chloroform
Concen: 15.622 ug/l
RT: 7.953 min Scan# 1020
Delta R.T. 0.006 min
Lab File: VN087612.D
Acq: 20 Aug 2025 13:03

Tgt Ion: 83 Resp: 104759
Ion Ratio Lower Upper
83 100
85 65.4 52.6 78.8

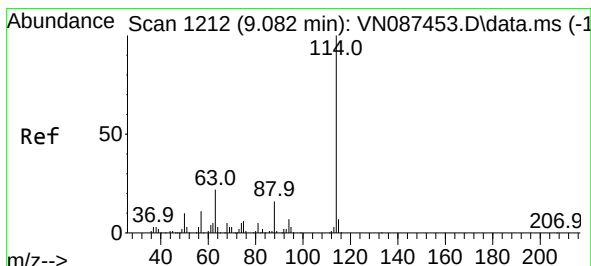
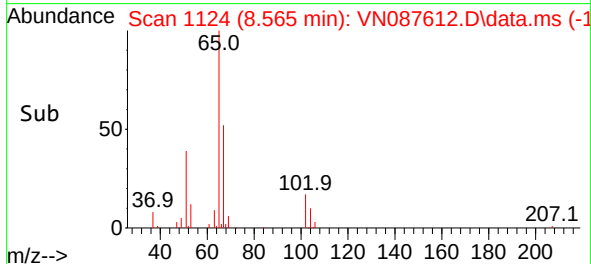
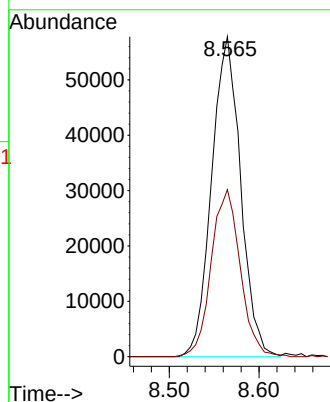
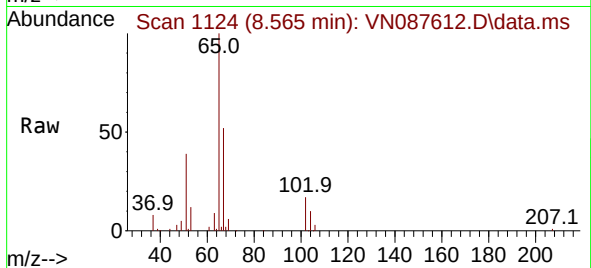




#27
 1,2-Dichloroethane-d4
 Concen: 28.741 ug/l
 RT: 8.565 min Scan# 1123
 Delta R.T. 0.006 min
 Lab File: VN087612.D
 Acq: 20 Aug 2025 13:03

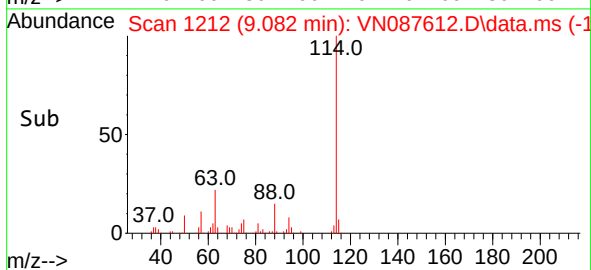
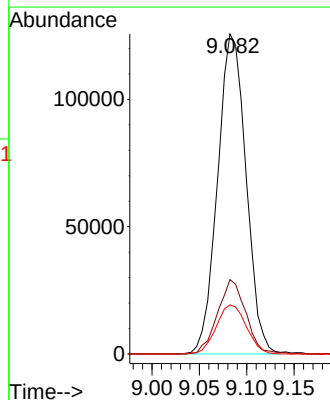
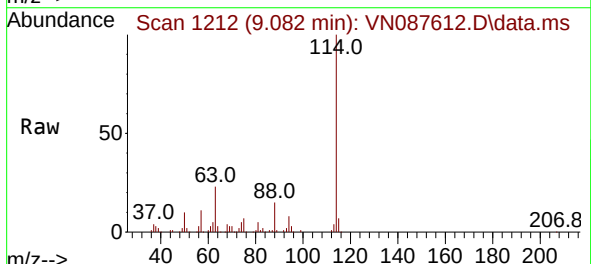
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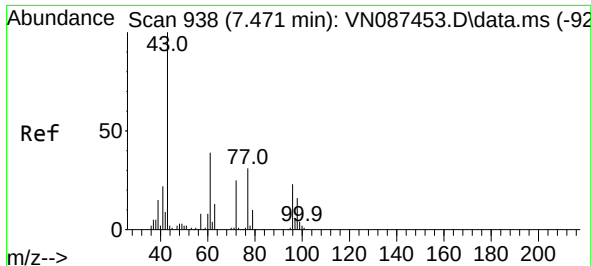
Tgt Ion: 65 Resp: 129554
 Ion Ratio Lower Upper
 65 100
 67 52.3 40.8 61.2



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 9.082 min Scan# 1212
 Delta R.T. -0.000 min
 Lab File: VN087612.D
 Acq: 20 Aug 2025 13:03

Tgt Ion: 114 Resp: 262809
 Ion Ratio Lower Upper
 114 100
 63 23.0 18.9 28.3
 88 16.2 13.1 19.7

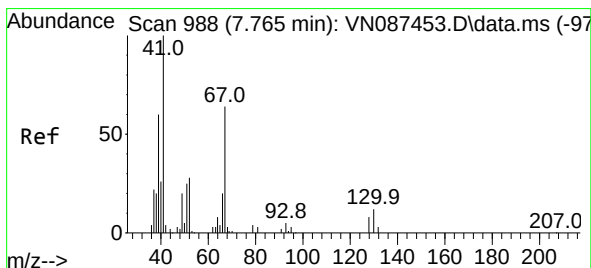
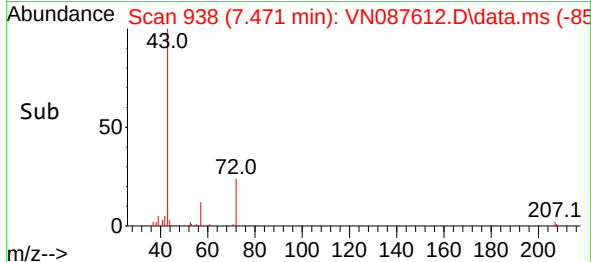
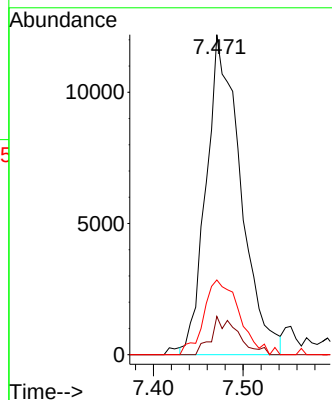
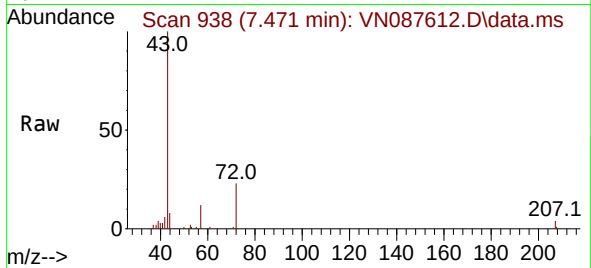




#30
2-Butanone
Concen: 10.268 ug/l
RT: 7.471 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN087612.D
Acq: 20 Aug 2025 13:03

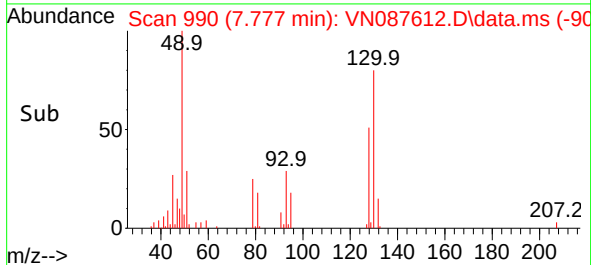
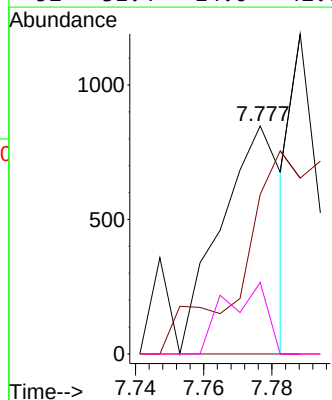
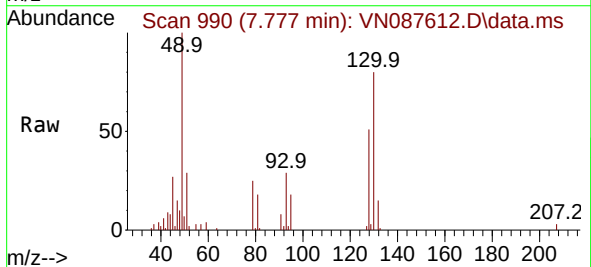
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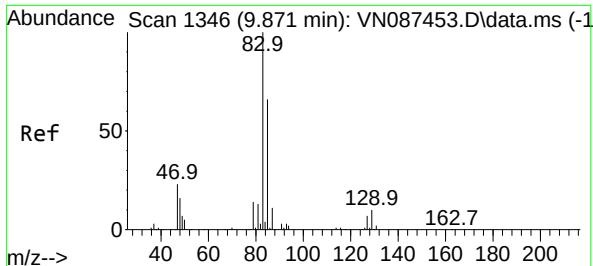
Tgt Ion: 43 Resp: 32443
Ion Ratio Lower Upper
43 100
57 1.6 6.6 9.8#
72 22.1 19.7 29.5



#35
Methacrylonitrile
Concen: 0.311 ug/l
RT: 7.777 min Scan# 990
Delta R.T. 0.012 min
Lab File: VN087612.D
Acq: 20 Aug 2025 13:03

Tgt Ion: 41 Resp: 1061
Ion Ratio Lower Upper
41 100
39 49.1 30.1 90.5
67 0.0 32.0 96.2#
52 31.4 14.0 42.0

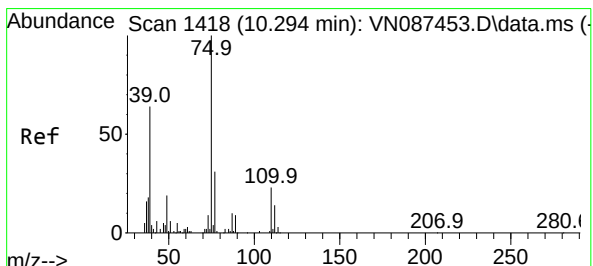
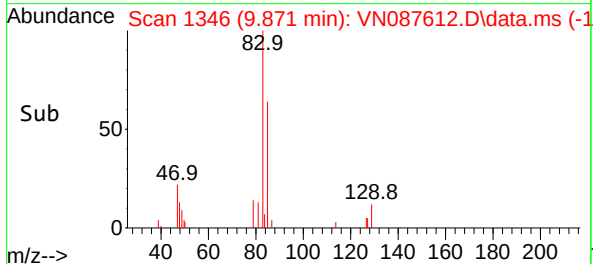
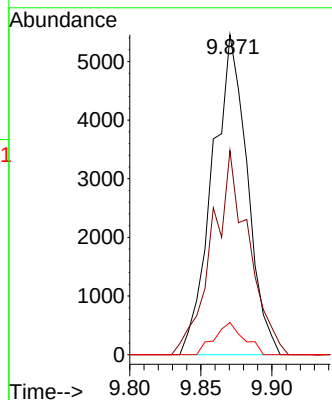
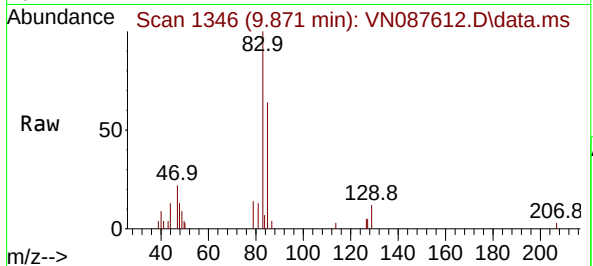




#41
Bromodichloromethane
Concen: 1.719 ug/l
RT: 9.871 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN087612.D
Acq: 20 Aug 2025 13:03

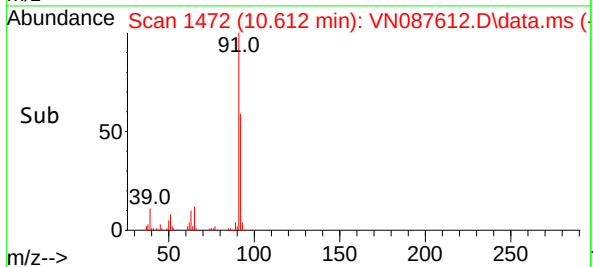
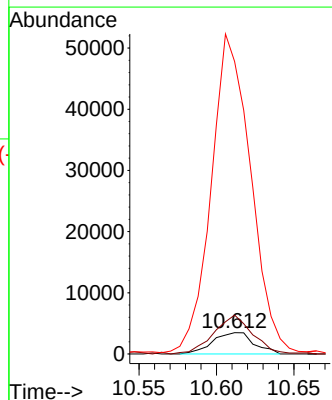
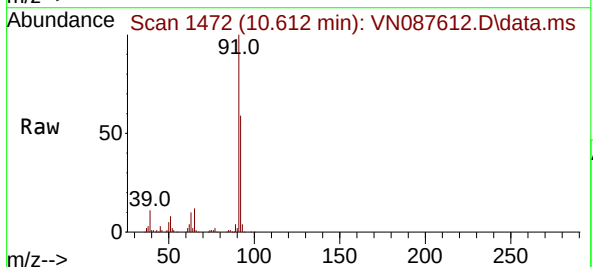
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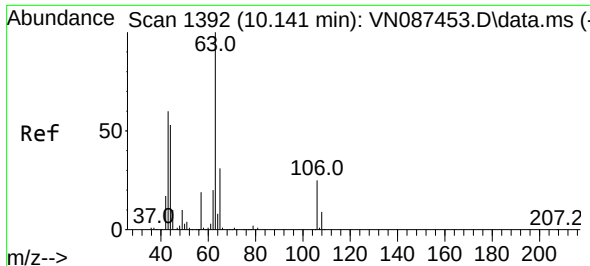
Tgt Ion: 83 Resp: 9300
Ion Ratio Lower Upper
83 100
85 60.6 52.9 79.3
127 10.0 5.8 8.6#



#49
cis-1,3-Dichloropropene
Concen: 1.089 ug/l
RT: 10.612 min Scan# 1472
Delta R.T. 0.318 min
Lab File: VN087612.D
Acq: 20 Aug 2025 13:03

Tgt Ion: 75 Resp: 6451
Ion Ratio Lower Upper
75 100
77 176.0 24.6 36.8#
39 1336.5 51.5 77.3#

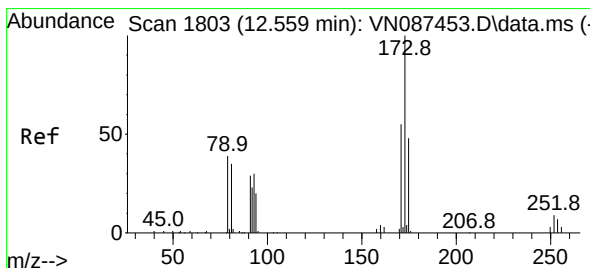
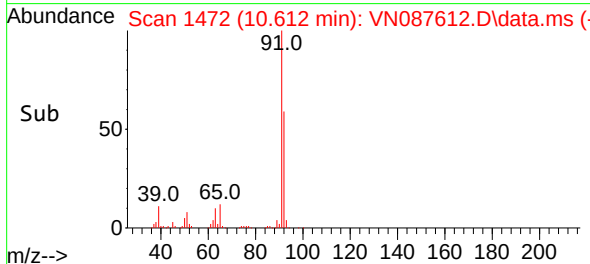
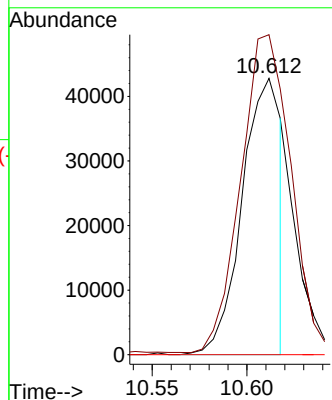
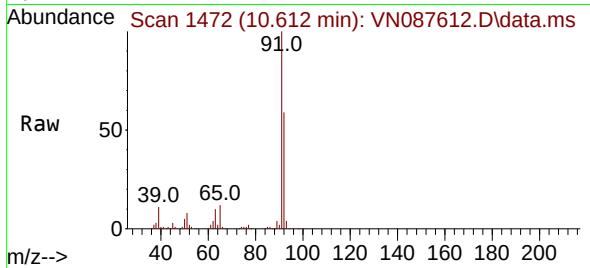




#55
2-Chloroethyl vinyl ether
Concen: 20.280 ug/l
RT: 10.612 min Scan# 14
Delta R.T. 0.470 min
Lab File: VN087612.D
Acq: 20 Aug 2025 13:03

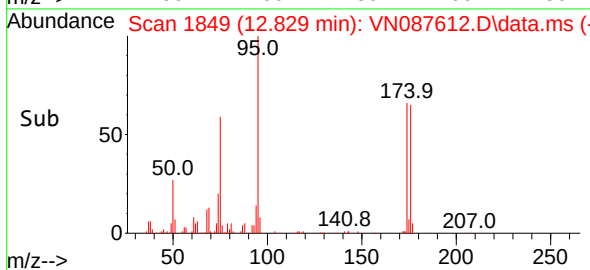
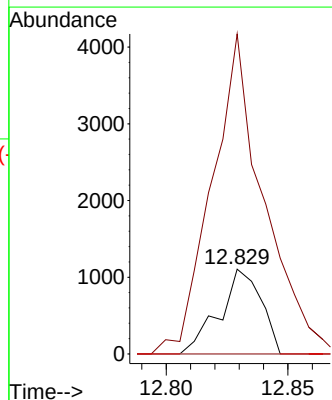
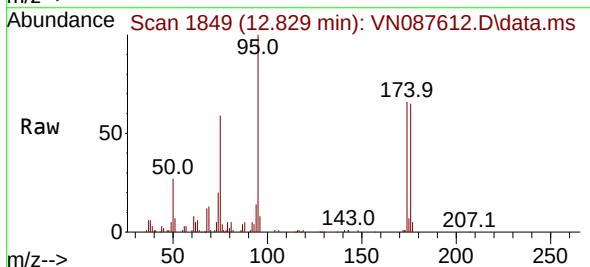
Instrument :
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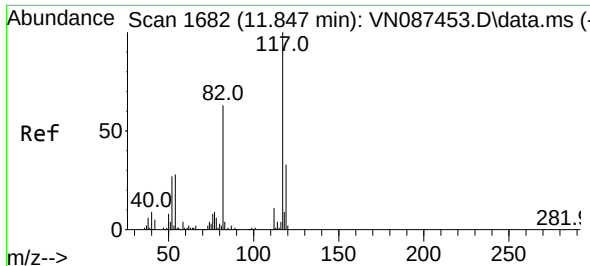
Tgt Ion: 63 Resp: 61836
Ion Ratio Lower Upper
63 100
65 117.9 25.7 38.5#
106 0.0 20.7 31.1#



#56
Bromoform
Concen: 0.526 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.270 min
Lab File: VN087612.D
Acq: 20 Aug 2025 13:03

Tgt Ion:173 Resp: 1322
Ion Ratio Lower Upper
173 100
175 467.0 38.8 58.2#
254 0.0 3.9 5.9#

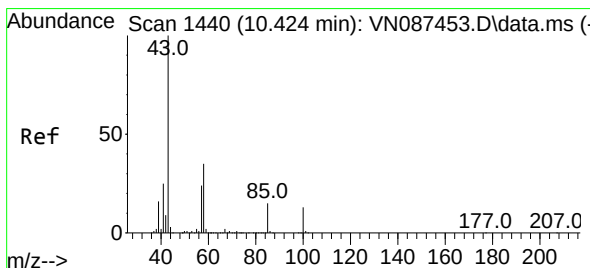
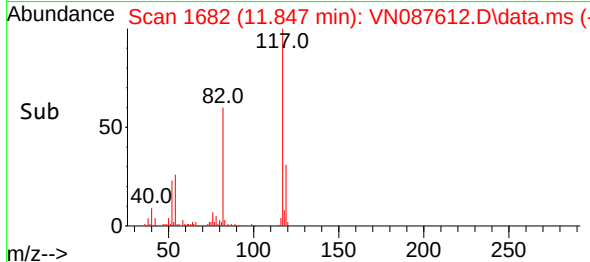
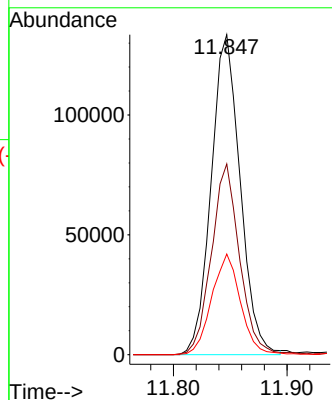
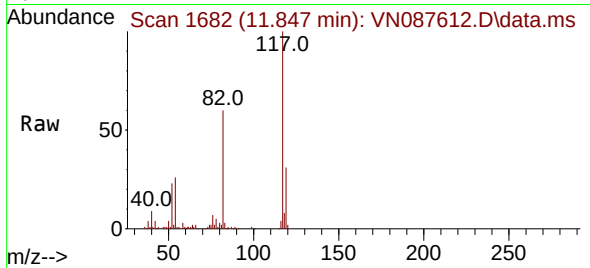




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.847 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN087612.D
Acq: 20 Aug 2025 13:03

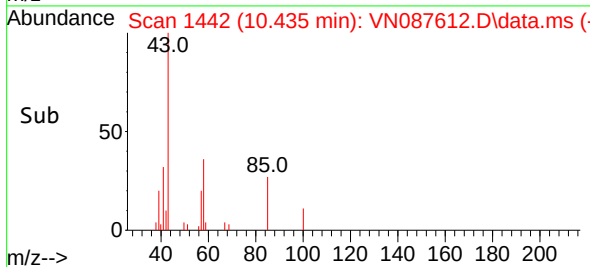
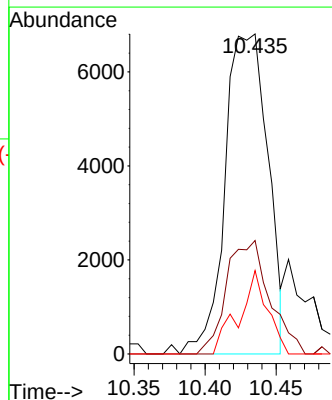
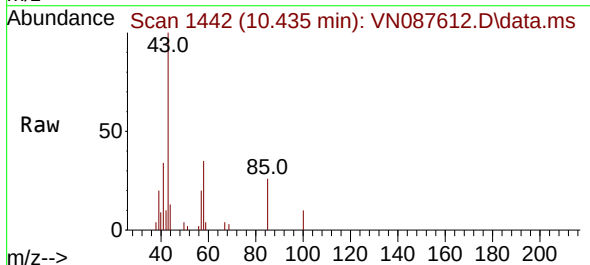
Instrument :
MSVOA_N
ClientSampleId :
001 willets Pt Blvd(july)

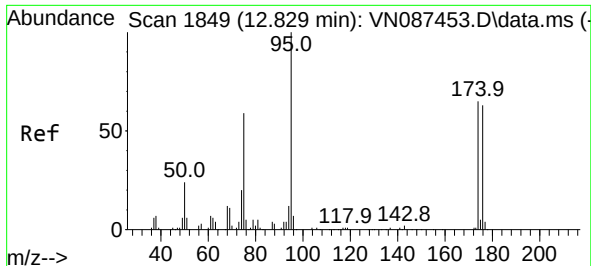
Tgt Ion:	117	Resp:	236696
Ion	Ratio	Lower	Upper
117	100		
82	57.7	49.2	73.8
119	31.4	25.7	38.5



#58
4-Methyl-2-Pentanone
Concen: 2.348 ug/l
RT: 10.435 min Scan# 1442
Delta R.T. 0.012 min
Lab File: VN087612.D
Acq: 20 Aug 2025 13:03

Tgt Ion:	43	Resp:	14294
Ion	Ratio	Lower	Upper
43	100		
58	0.0	29.0	43.6#
85	12.5	12.7	19.1#

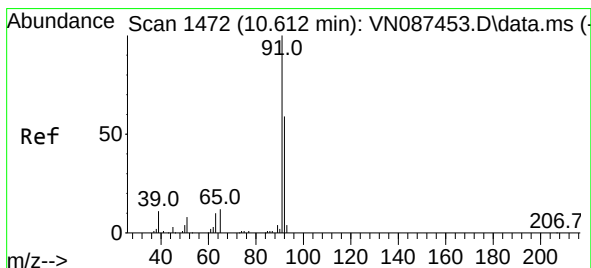
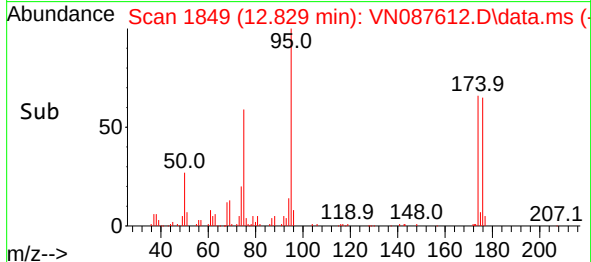
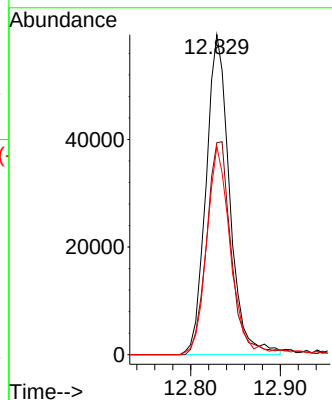
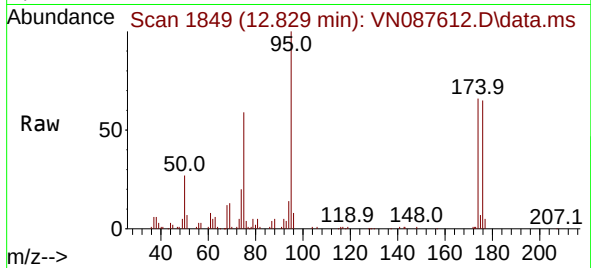




#60
4-Bromofluorobenzene
Concen: 26.648 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.000 min
Lab File: VN087612.D
Acq: 20 Aug 2025 13:03

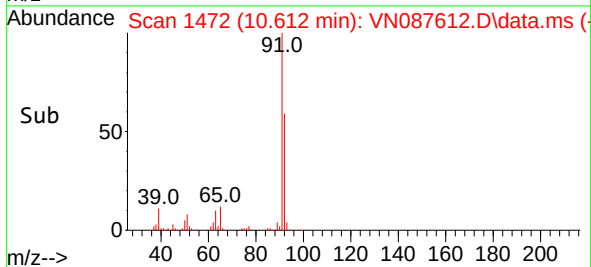
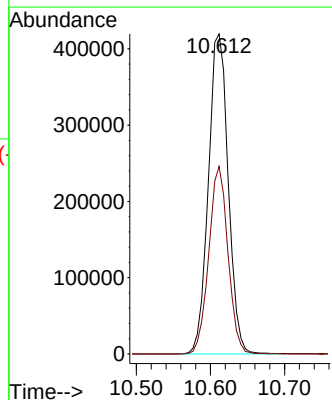
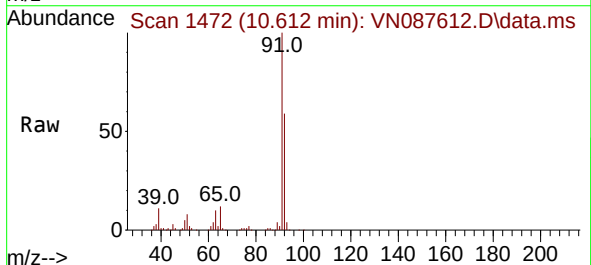
Instrument :
MSVOA_N
ClientSampleId :
001 willets Pt Blvd(july)

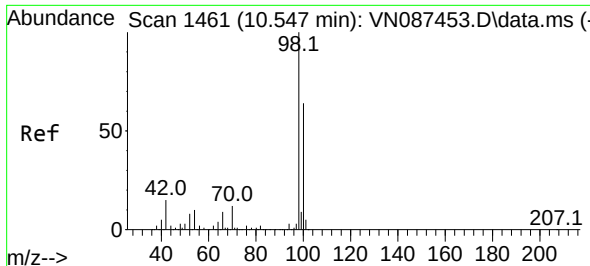
Tgt Ion: 95 Resp: 108549
Ion Ratio Lower Upper
95 100
174 69.4 52.3 78.5
176 64.0 49.8 74.8



#62
Toluene
Concen: 53.372 ug/l
RT: 10.612 min Scan# 1472
Delta R.T. -0.000 min
Lab File: VN087612.D
Acq: 20 Aug 2025 13:03

Tgt Ion: 91 Resp: 779699
Ion Ratio Lower Upper
91 100
92 56.6 45.8 68.6

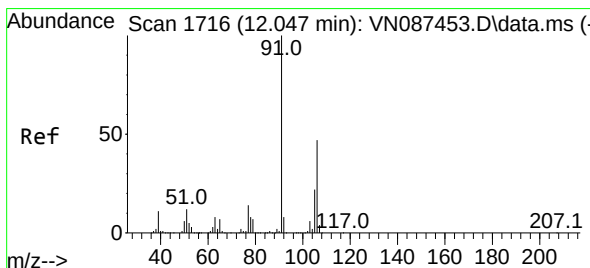
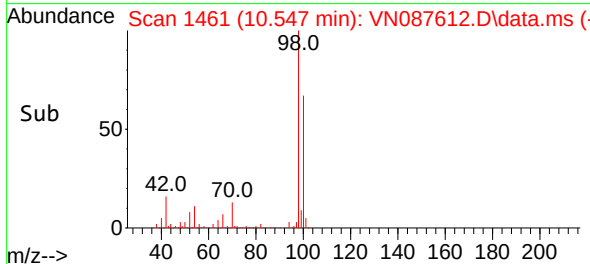
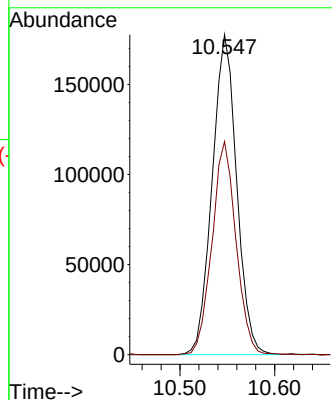
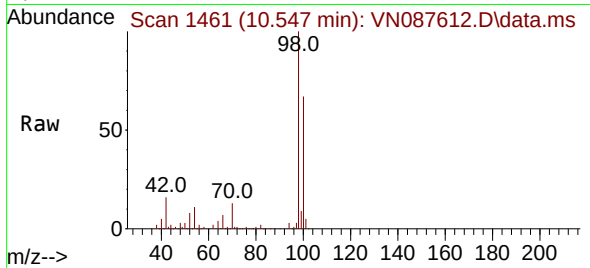




#63
Toluene-d8
Concen: 29.295 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN087612.D
Acq: 20 Aug 2025 13:03

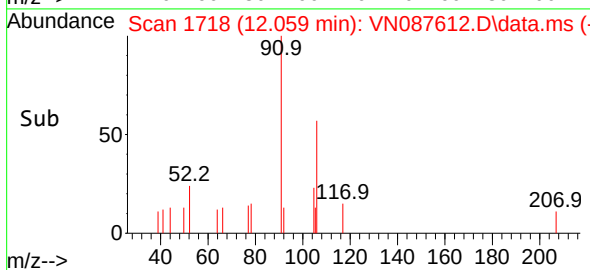
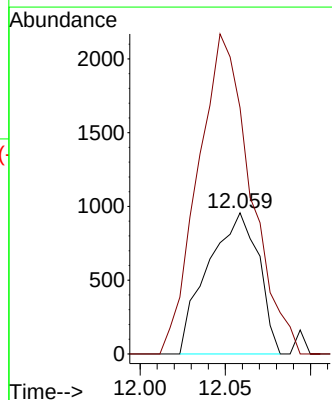
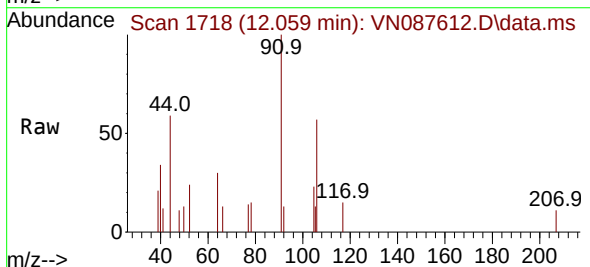
Instrument :
MSVOA_N
ClientSampleId :
001 willets Pt Blvd(july)

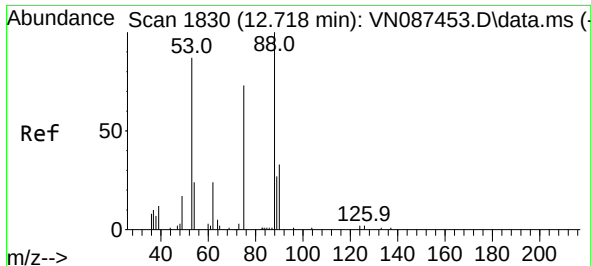
Tgt Ion: 98 Resp: 319054
Ion Ratio Lower Upper
98 100
100 65.3 50.5 75.7



#67
m/p-Xylenes
Concen: 0.332 ug/l
RT: 12.059 min Scan# 1718
Delta R.T. 0.012 min
Lab File: VN087612.D
Acq: 20 Aug 2025 13:03

Tgt Ion:106 Resp: 1985
Ion Ratio Lower Upper
106 100
91 234.9 174.2 261.2

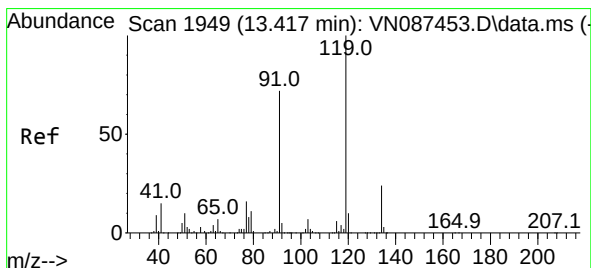
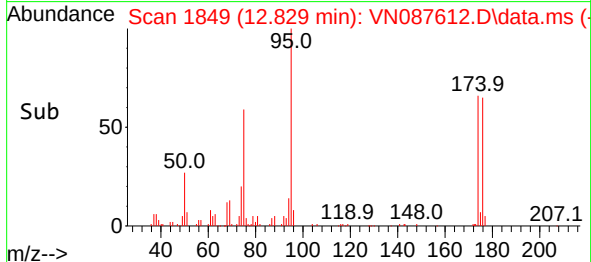
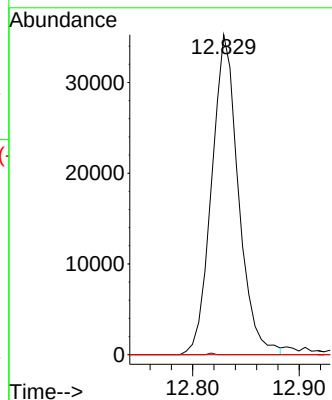
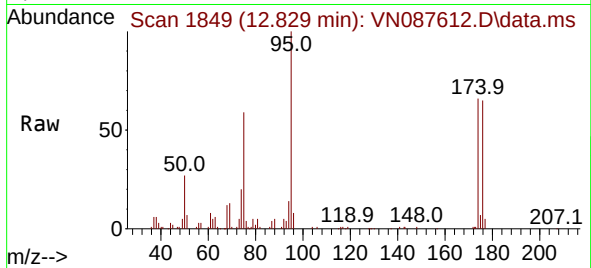




#77
t-1,4-Dichloro-2-butene
Concen: 34.211 ug/l
RT: 12.829 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN087612.D
Acq: 20 Aug 2025 13:03

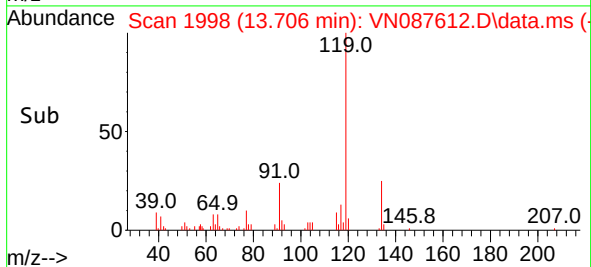
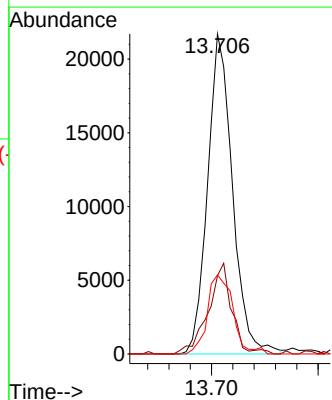
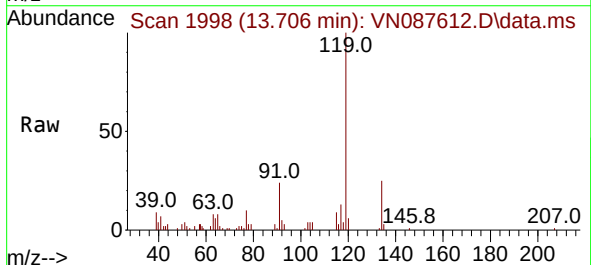
Instrument :
MSVOA_N
ClientSampleId :
001 willets Pt Blvd(july)

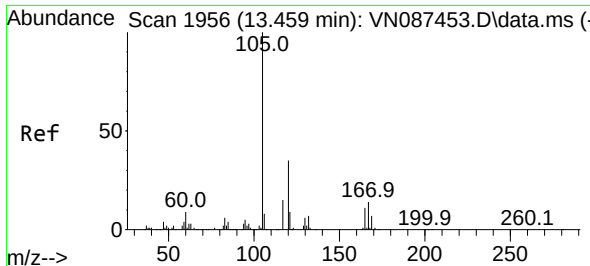
Tgt Ion: 75 Resp: 61753
Ion Ratio Lower Upper
75 100
53 0.0 59.0 176.8#
89 0.0 22.1 66.5#



#79
tert-butylbenzene
Concen: 3.259 ug/l
RT: 13.706 min Scan# 1998
Delta R.T. 0.288 min
Lab File: VN087612.D
Acq: 20 Aug 2025 13:03

Tgt Ion: 119 Resp: 35142
Ion Ratio Lower Upper
119 100
91 26.2 0.0 141.6
134 25.1 0.0 45.6

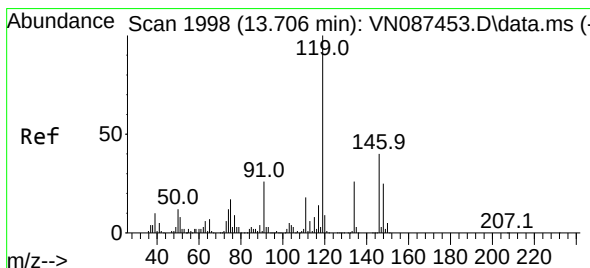
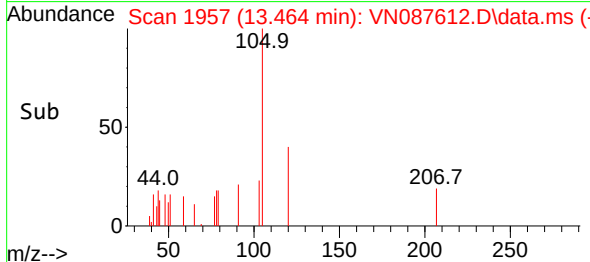
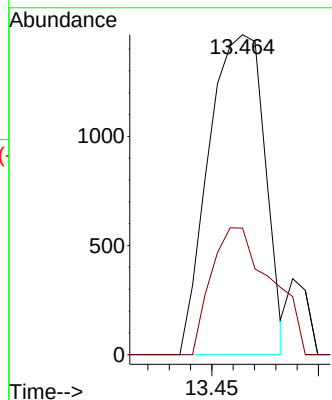
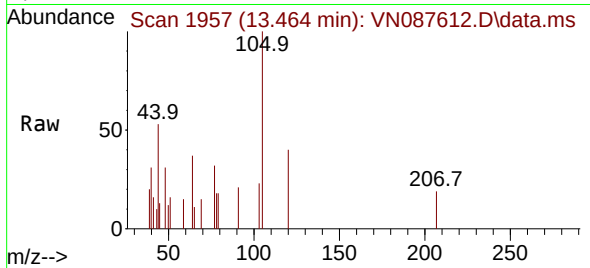




#80
1,2,4-Trimethylbenzene
Concen: 0.210 ug/l
RT: 13.464 min Scan# 1957
Delta R.T. 0.006 min
Lab File: VN087612.D
Acq: 20 Aug 2025 13:03

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

Tgt Ion:105 Resp: 2684
Ion Ratio Lower Upper
105 100
120 42.5 0.0 87.2



#82
p-Isopropyltoluene
Concen: 2.696 ug/l
RT: 13.706 min Scan# 1998
Delta R.T. -0.000 min
Lab File: VN087612.D
Acq: 20 Aug 2025 13:03

Tgt Ion:119 Resp: 35142
Ion Ratio Lower Upper
119 100
134 25.1 0.0 51.4
91 26.2 0.0 52.0

