

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081825\
 Data File : VN087599.D
 Acq On : 18 Aug 2025 11:36
 Operator : JC\MD
 Sample : Q2845-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

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

Quant Time: Aug 18 15:12:08 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)

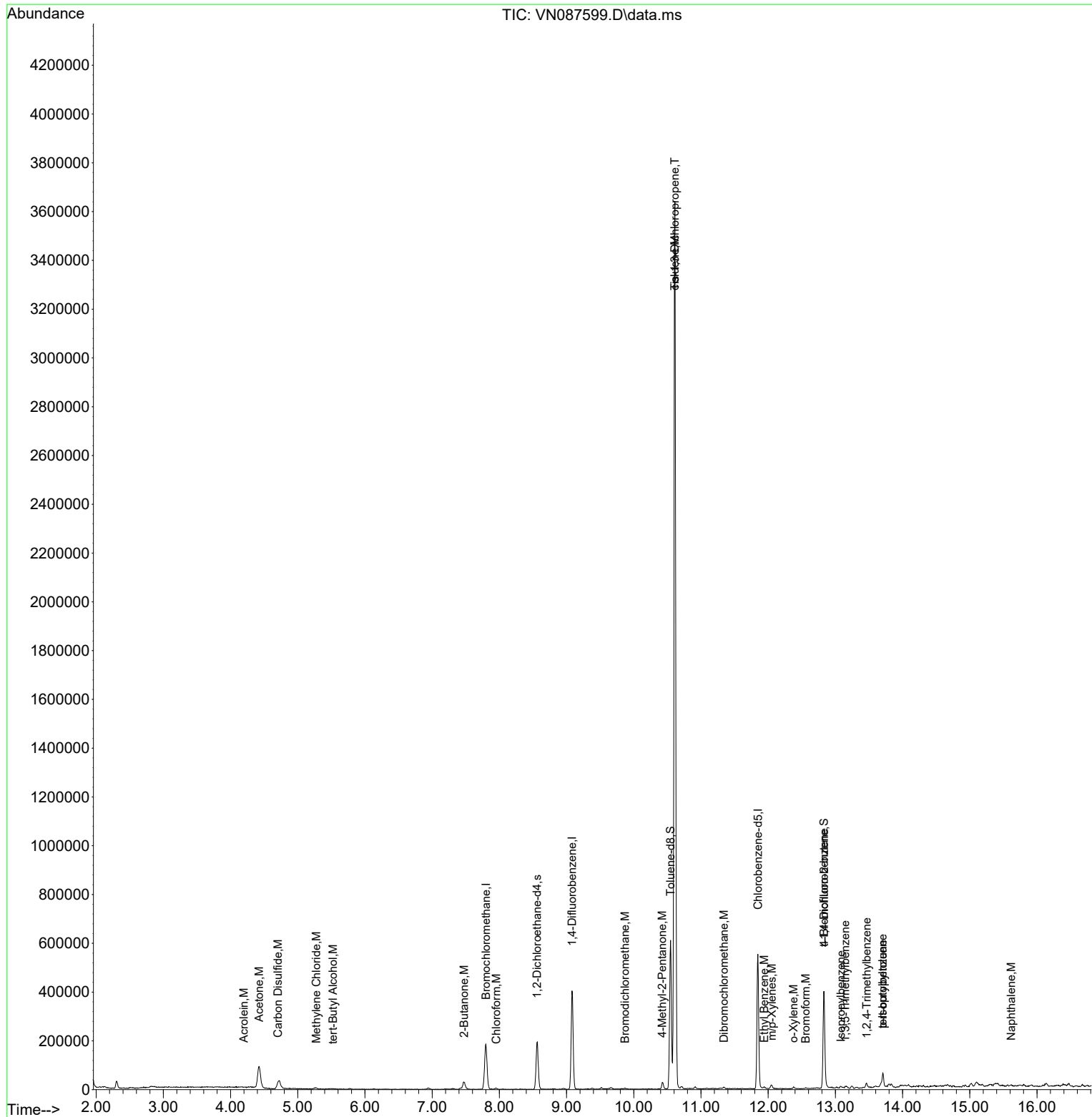
Internal Standards						
1) Bromochloromethane	7.800	128	59234	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.083	114	334882	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	296304	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	162459	29.736	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	99.133%
60) 4-Bromofluorobenzene	12.829	95	141026	27.656	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	92.200%
63) Toluene-d8	10.547	98	407272	29.873	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	99.567%
Target Compounds						
					Qvalue	
13) Acrolein	4.200	56	526	0.575	ug/l	92
15) Acetone	4.424	58	50426	67.510	ug/l	91
16) Carbon Disulfide	4.706	76	3066	0.305	ug/l #	75
18) Methylene Chloride	5.277	84	1657	0.397	ug/l #	65
23) tert-Butyl Alcohol	5.524	59	391	0.352	ug/l #	100
25) Chloroform	7.953	83	3970	0.488	ug/l	99
30) 2-Butanone	7.477	43	48748	12.108	ug/l #	84
41) Bromodichloromethane	9.871	83	1917	0.278	ug/l #	74
49) cis-1,3-Dichloropropene	10.612	75	20679	2.740	ug/l #	1
53) Dibromochloromethane	11.341	129	3186	0.658	ug/l #	53
56) Bromoform	12.559	173	1586	0.495	ug/l #	76
58) 4-Methyl-2-Pentanone	10.424	43	20204	2.651	ug/l #	82
62) Toluene	10.612	91	2676353	146.345	ug/l	100
66) Ethyl Benzene	11.941	91	4693	0.230	ug/l	90
67) m/p-Xylenes	12.053	106	3975	0.531	ug/l	95
68) o-Xylene	12.376	106	1650	0.224	ug/l	100
70) Isopropylbenzene	13.082	105	5659	0.303	ug/l	99
76) 1,3,5-Trimethylbenzene	13.147	105	3938	0.246	ug/l	94
77) t-1,4-Dichloro-2-butene	12.829	75	84475	37.385	ug/l #	3
79) tert-butylbenzene	13.706	119	29596	2.192	ug/l	58
80) 1,2,4-Trimethylbenzene	13.465	105	10725	0.670	ug/l	96
82) p-Isopropyltoluene	13.706	119	29596	1.814	ug/l	98
91) Naphthalene	15.617	128	6238	0.347	ug/l #	76

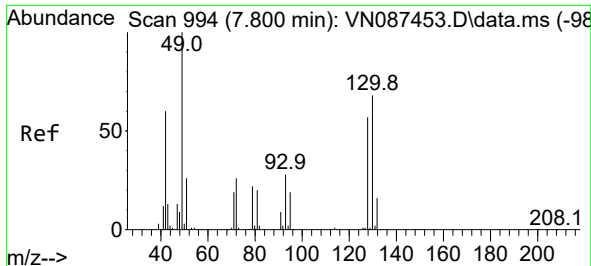
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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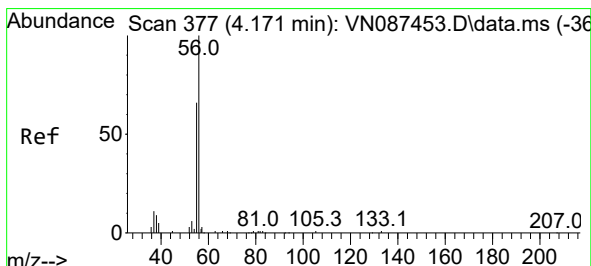
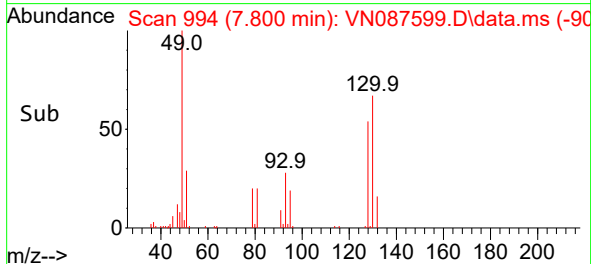
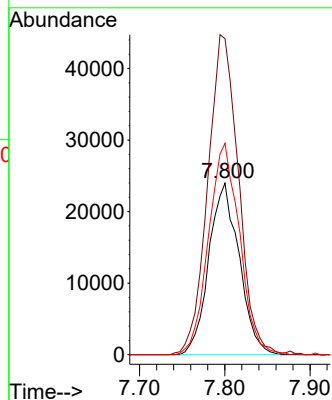
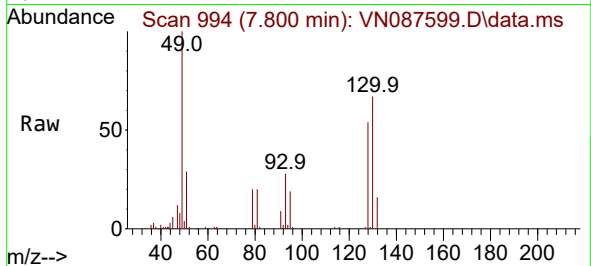




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.800 min Scan# 994
Delta R.T. 0.000 min
Lab File: VN087599.D
Acq: 18 Aug 2025 11:36

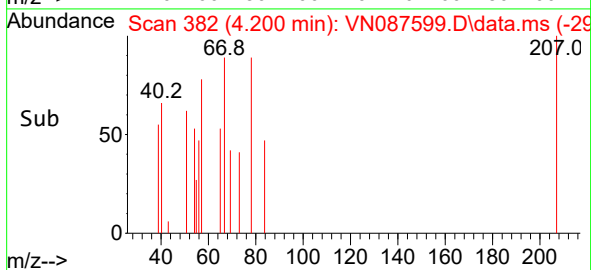
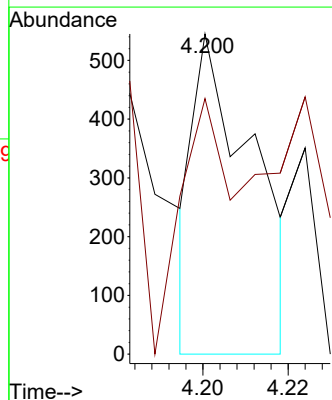
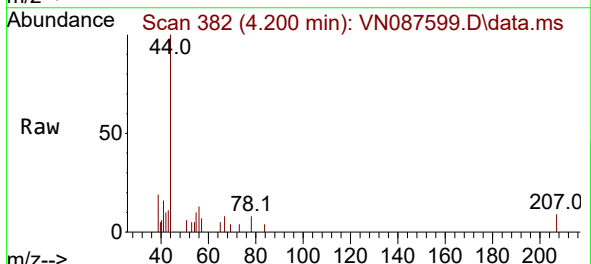
Instrument :
MSVOA_N
ClientSampleId :
001 willets Pt Blvd(july)

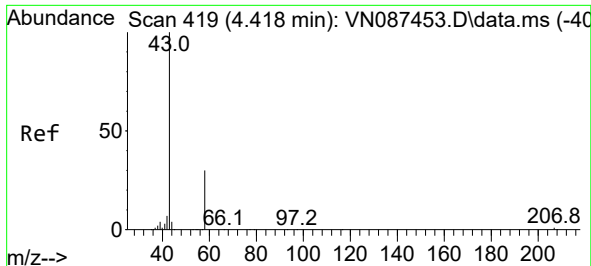
Tgt Ion:128 Resp: 59234
Ion Ratio Lower Upper
128 100
49 189.0 0.0 494.8
130 126.0 0.0 321.5



#13
Acrolein
Concen: 0.575 ug/l
RT: 4.200 min Scan# 382
Delta R.T. 0.029 min
Lab File: VN087599.D
Acq: 18 Aug 2025 11:36

Tgt Ion: 56 Resp: 526
Ion Ratio Lower Upper
56 100
55 64.8 57.4 86.0

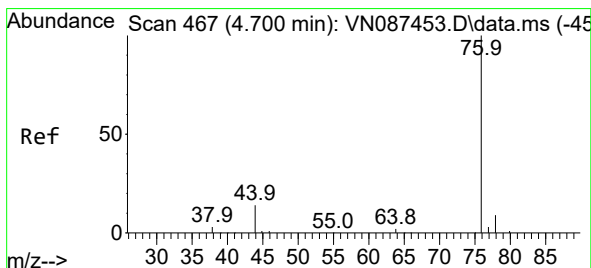
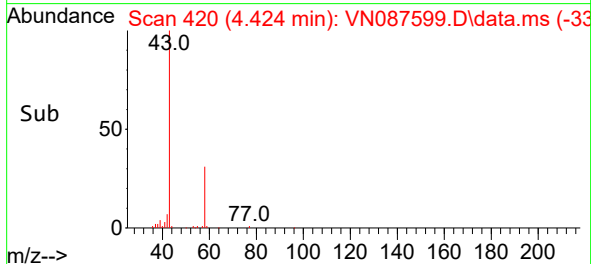
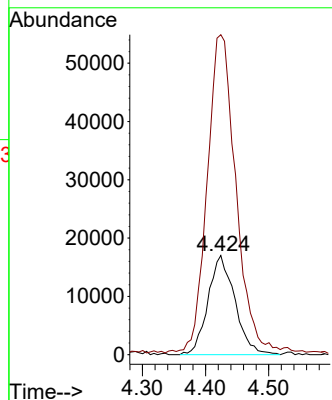
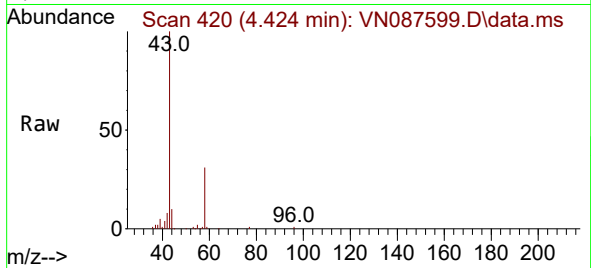




#15
Acetone
Concen: 67.510 ug/l
RT: 4.424 min Scan# 419
Delta R.T. 0.006 min
Lab File: VN087599.D
Acq: 18 Aug 2025 11:36

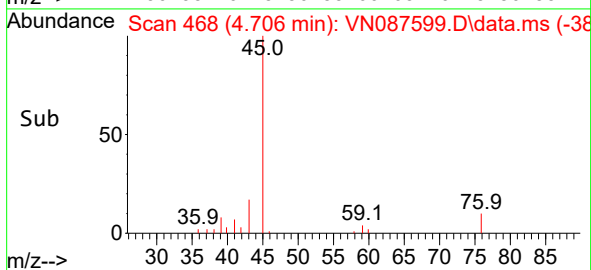
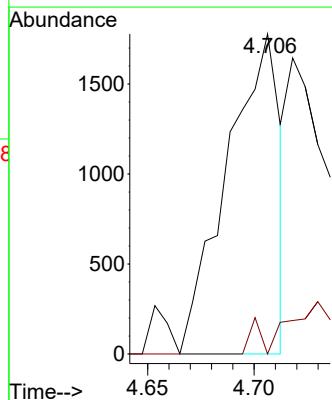
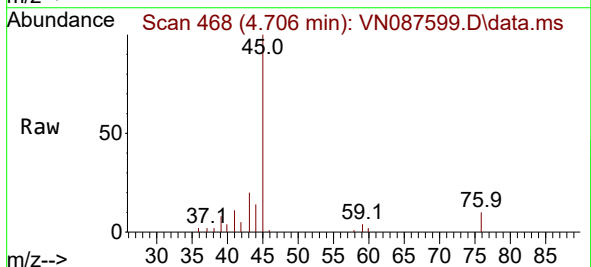
Instrument :
MSVOA_N
ClientSampleId :
001 willets Pt Blvd(july)

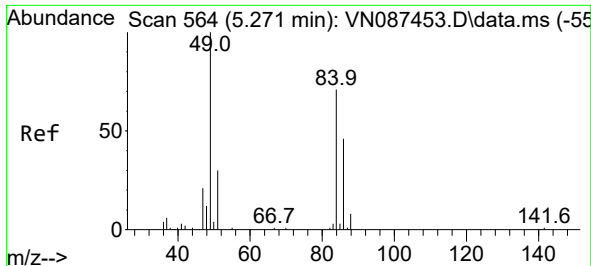
Tgt Ion: 58 Resp: 50426
Ion Ratio Lower Upper
58 100
43 317.7 268.9 403.3



#16
Carbon Disulfide
Concen: 0.305 ug/l
RT: 4.706 min Scan# 468
Delta R.T. 0.006 min
Lab File: VN087599.D
Acq: 18 Aug 2025 11:36

Tgt Ion: 76 Resp: 3066
Ion Ratio Lower Upper
76 100
78 0.0 7.1 10.7#





#18

Methylene Chloride

Concen: 0.397 ug/l

RT: 5.277 min Scan# 50

Delta R.T. 0.006 min

Lab File: VN087599.D

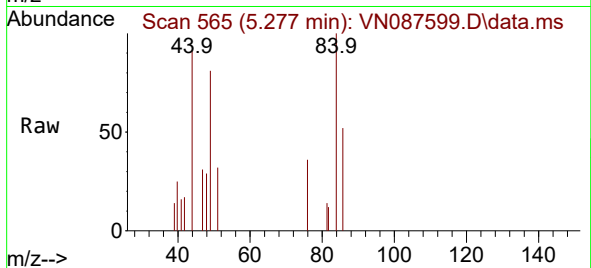
Acq: 18 Aug 2025 11:36

Instrument :

MSVOA_N

ClientSampleId :

001 willets Pt Blvd(july)



Tgt Ion: 84 Resp: 1657

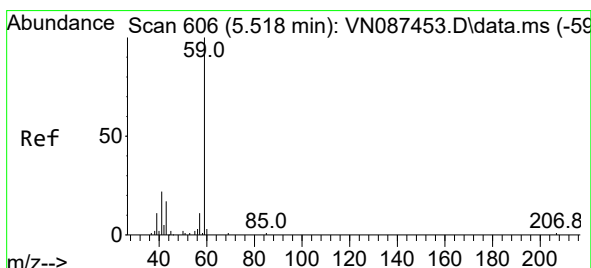
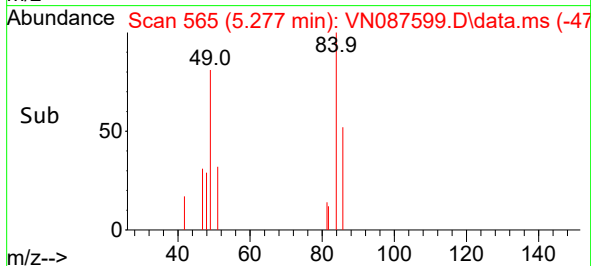
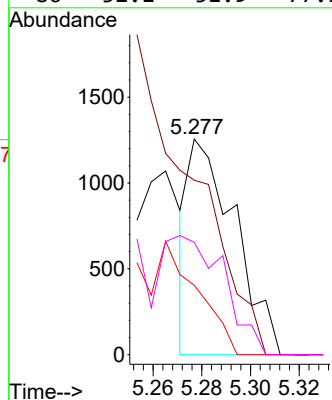
Ion Ratio Lower Upper

84 100

49 80.9 112.9 169.3#

51 32.2 33.8 50.8#

86 52.1 51.9 77.9



#23

tert-Butyl Alcohol

Concen: 0.352 ug/l

RT: 5.524 min Scan# 607

Delta R.T. 0.006 min

Lab File: VN087599.D

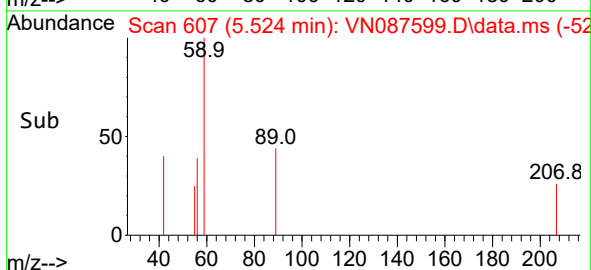
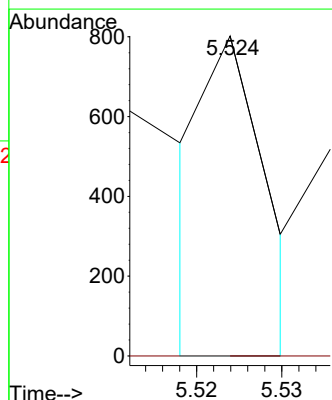
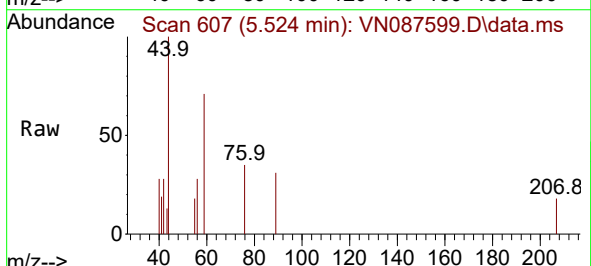
Acq: 18 Aug 2025 11:36

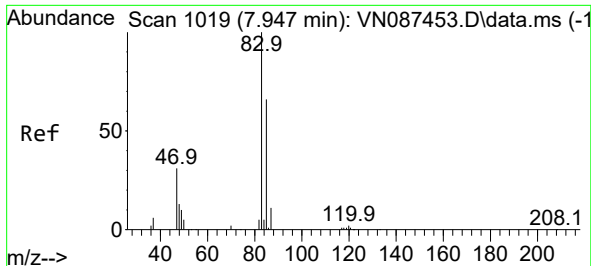
Tgt Ion: 59 Resp: 391

Ion Ratio Lower Upper

59 100

52 0.0 0.0 0.0

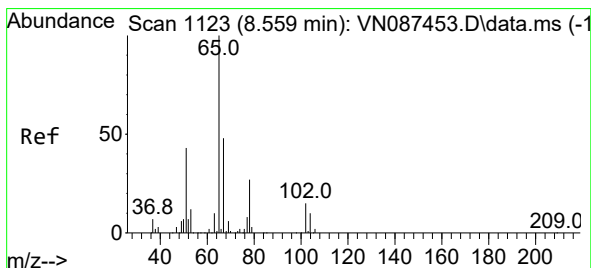
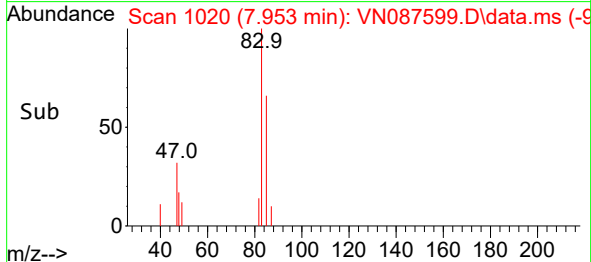
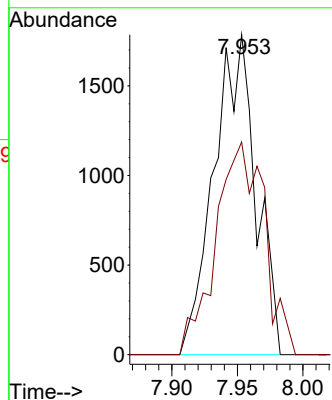
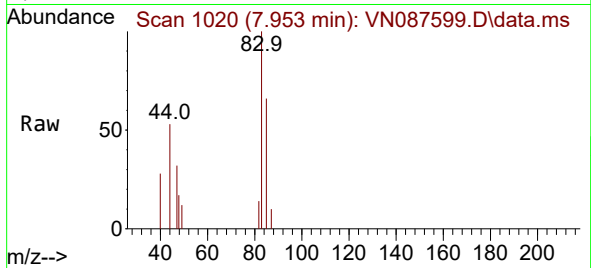




#25
Chloroform
Concen: 0.488 ug/l
RT: 7.953 min Scan# 1019
Delta R.T. 0.006 min
Lab File: VN087599.D
Acq: 18 Aug 2025 11:36

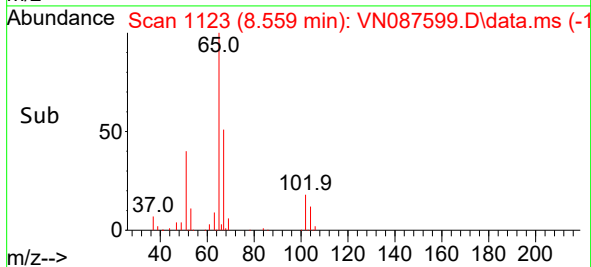
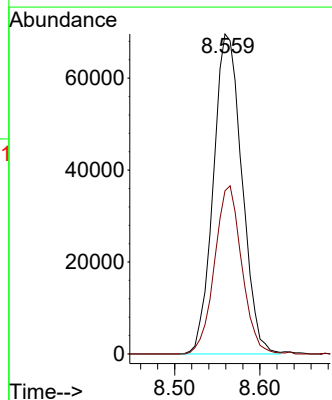
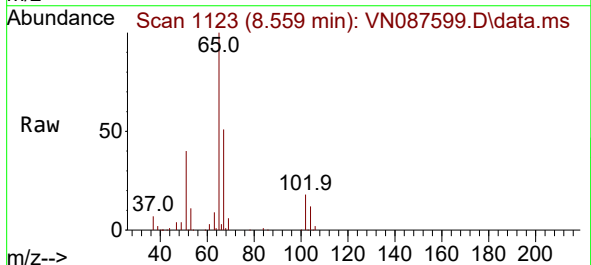
Instrument :
MSVOA_N
ClientSampleId :
001 willets Pt Blvd(july)

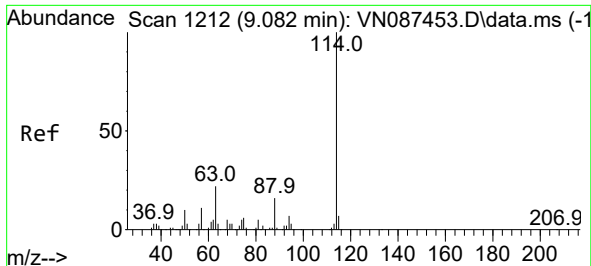
Tgt Ion: 83 Resp: 3970
Ion Ratio Lower Upper
83 100
85 66.5 52.6 78.8



#27
1,2-Dichloroethane-d4
Concen: 29.736 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. 0.000 min
Lab File: VN087599.D
Acq: 18 Aug 2025 11:36

Tgt Ion: 65 Resp: 162459
Ion Ratio Lower Upper
65 100
67 50.0 40.8 61.2





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.083 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN087599.D

Acq: 18 Aug 2025 11:36

Instrument :

MSVOA_N

ClientSampleId :

001 willets Pt Blvd(july)

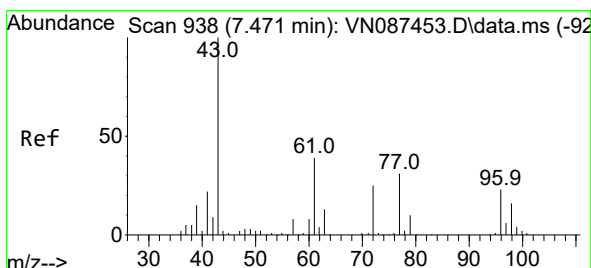
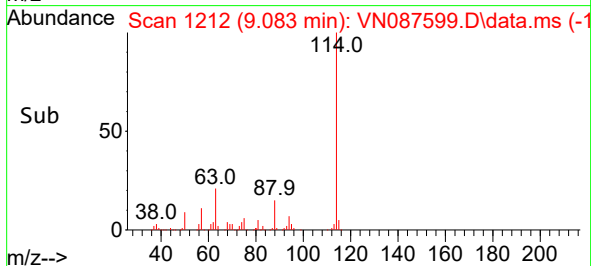
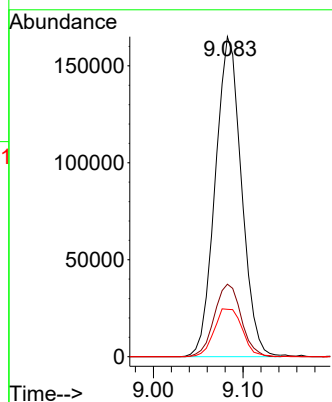
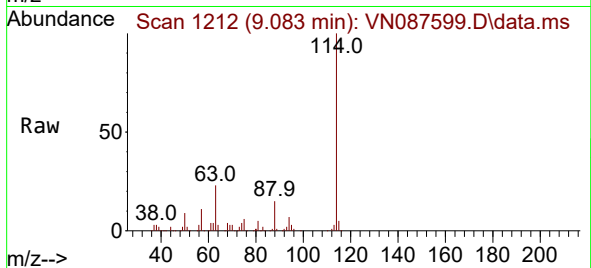
Tgt Ion:114 Resp: 334882

Ion Ratio Lower Upper

114 100

63 23.2 18.9 28.3

88 16.0 13.1 19.7



#30

2-Butanone

Concen: 12.108 ug/l

RT: 7.477 min Scan# 939

Delta R.T. 0.006 min

Lab File: VN087599.D

Acq: 18 Aug 2025 11:36

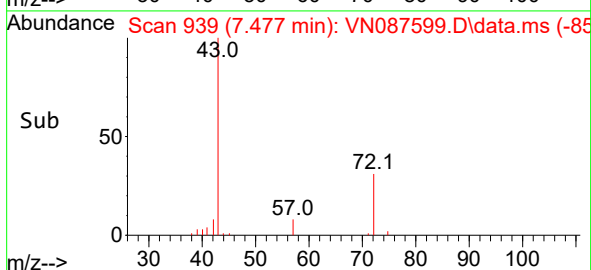
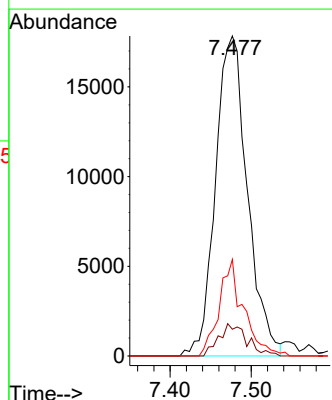
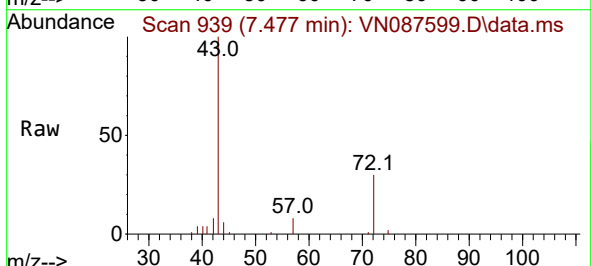
Tgt Ion: 43 Resp: 48748

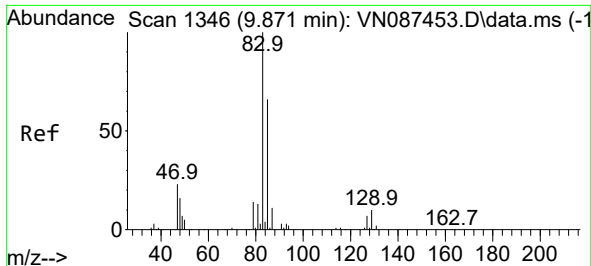
Ion Ratio Lower Upper

43 100

57 4.7 6.6 9.8#

72 15.9 19.7 29.5#

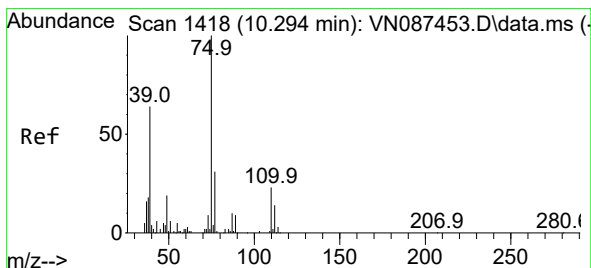
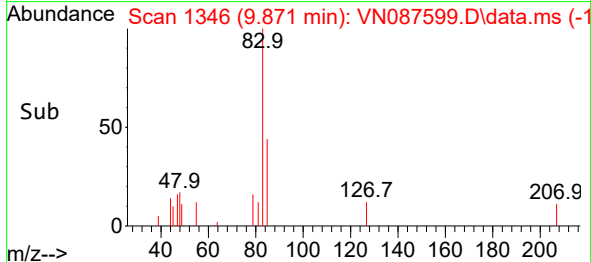
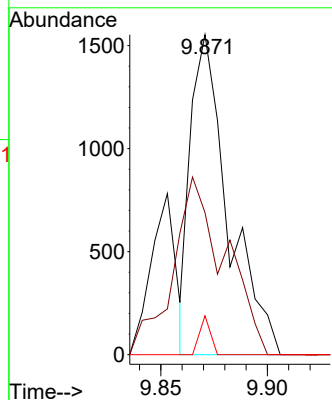
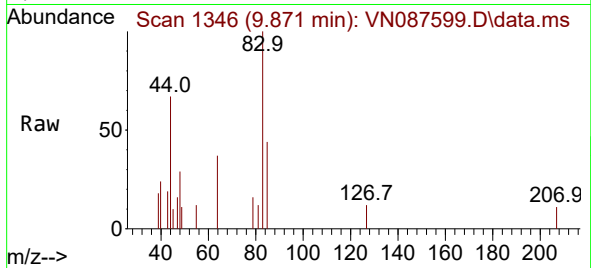




#41
Bromodichloromethane
Concen: 0.278 ug/l
RT: 9.871 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN087599.D
Acq: 18 Aug 2025 11:36

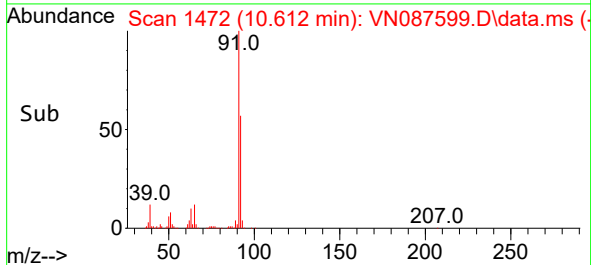
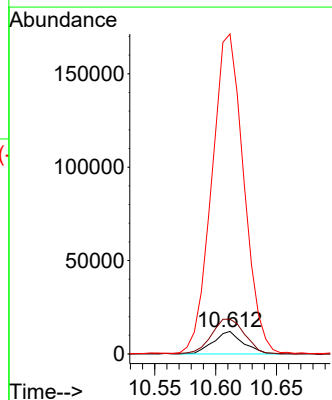
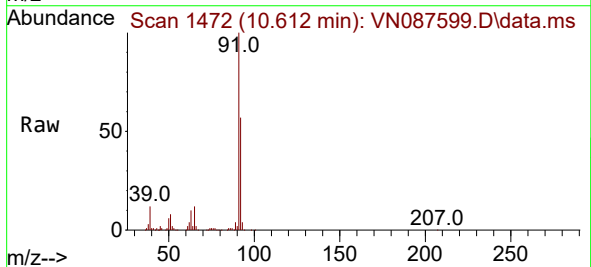
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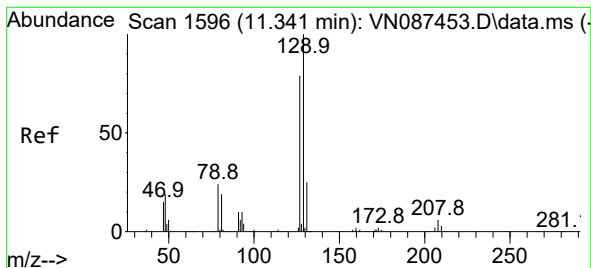
Tgt Ion: 83 Resp: 1917
Ion Ratio Lower Upper
83 100
85 44.4 52.9 79.3#
127 12.1 5.8 8.6#



#49
cis-1,3-Dichloropropene
Concen: 2.740 ug/l
RT: 10.612 min Scan# 1472
Delta R.T. 0.318 min
Lab File: VN087599.D
Acq: 18 Aug 2025 11:36

Tgt Ion: 75 Resp: 20679
Ion Ratio Lower Upper
75 100
77 152.5 24.6 36.8#
39 1413.0 51.5 77.3#





#53

Dibromochloromethane

Concen: 0.658 ug/l

RT: 11.341 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN087599.D

Acq: 18 Aug 2025 11:36

Instrument :

MSVOA_N

ClientSampleId :

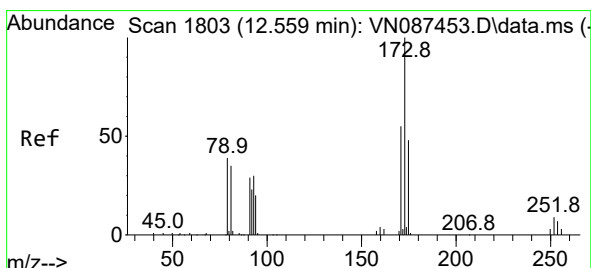
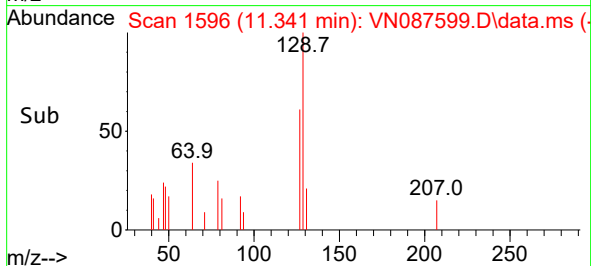
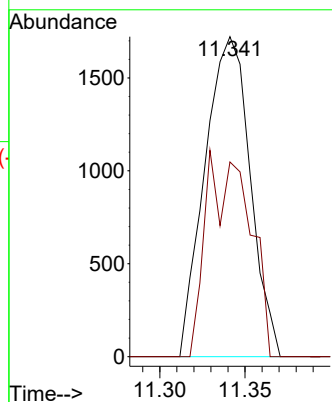
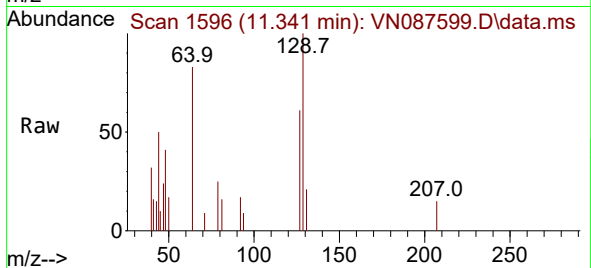
001 willets Pt Blvd(july)

Tgt Ion:129 Resp: 3186

Ion Ratio Lower Upper

129 100

127 37.0 39.1 117.3#



#56

Bromoform

Concen: 0.495 ug/l

RT: 12.559 min Scan# 1803

Delta R.T. 0.000 min

Lab File: VN087599.D

Acq: 18 Aug 2025 11:36

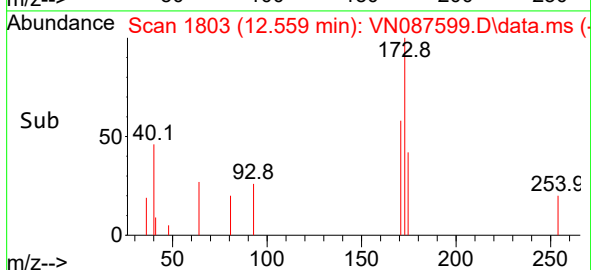
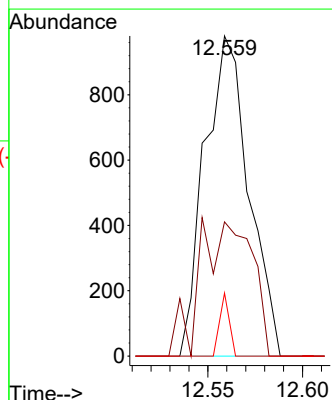
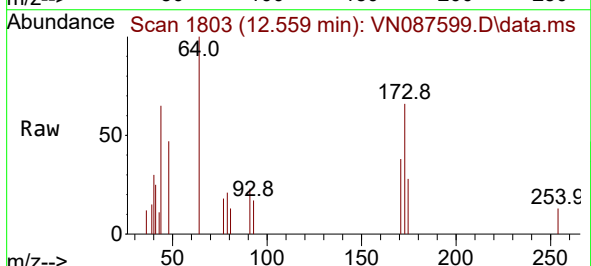
Tgt Ion:173 Resp: 1586

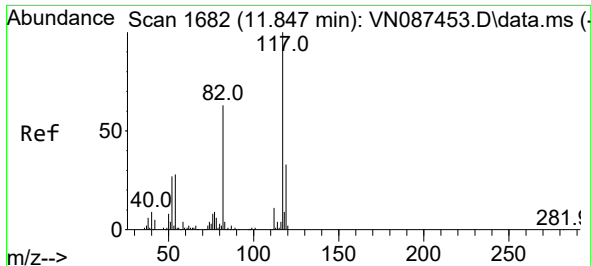
Ion Ratio Lower Upper

173 100

175 31.5 38.8 58.2#

254 0.0 3.9 5.9#

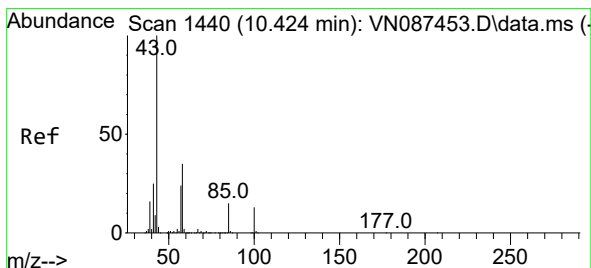
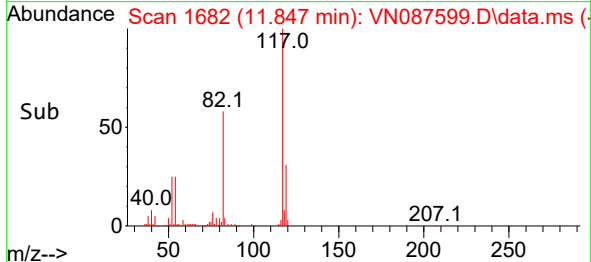
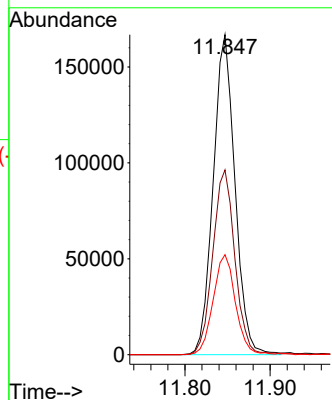
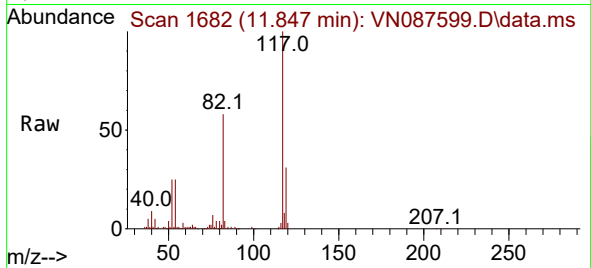




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.847 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN087599.D
Acq: 18 Aug 2025 11:36

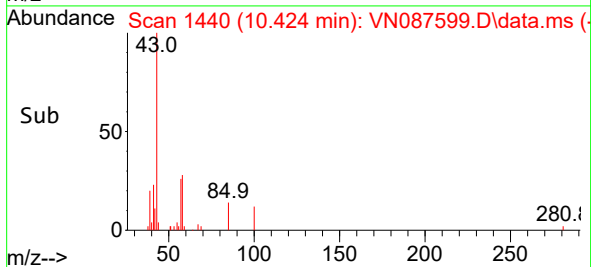
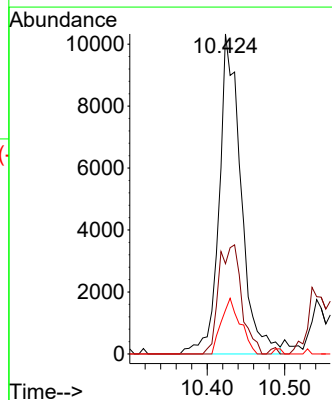
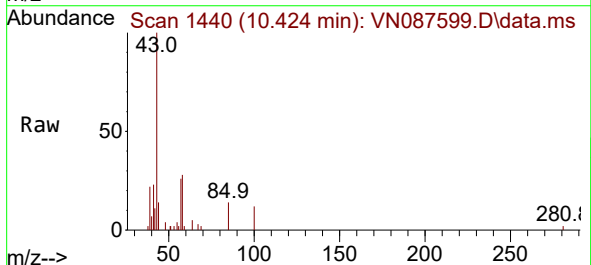
Instrument :
MSVOA_N
ClientSampleId :
001 willets Pt Blvd(july)

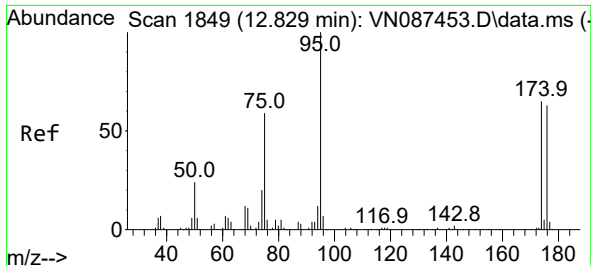
Tgt Ion:117 Resp: 296304
Ion Ratio Lower Upper
117 100
82 58.6 49.2 73.8
119 32.0 25.7 38.5



#58
4-Methyl-2-Pentanone
Concen: 2.651 ug/l
RT: 10.424 min Scan# 1440
Delta R.T. 0.000 min
Lab File: VN087599.D
Acq: 18 Aug 2025 11:36

Tgt Ion: 43 Resp: 20204
Ion Ratio Lower Upper
43 100
58 21.4 29.0 43.6#
85 15.1 12.7 19.1

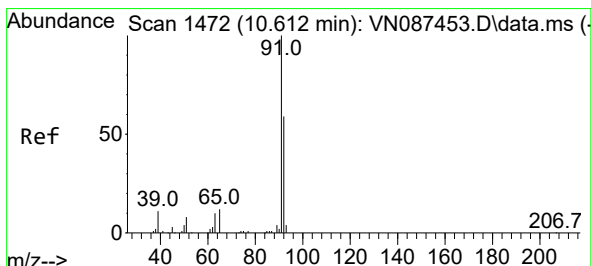
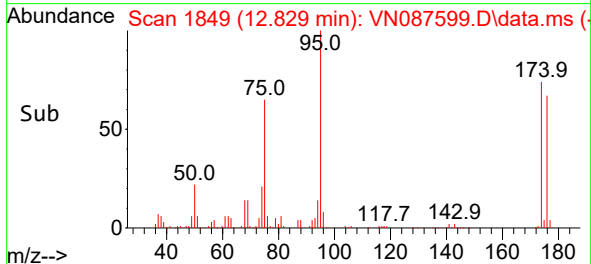
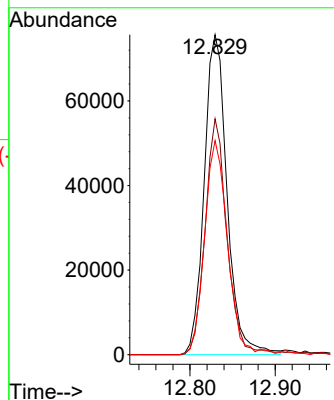
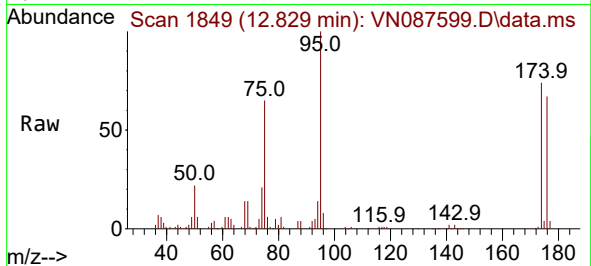




#60
4-Bromofluorobenzene
Concen: 27.656 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.000 min
Lab File: VN087599.D
Acq: 18 Aug 2025 11:36

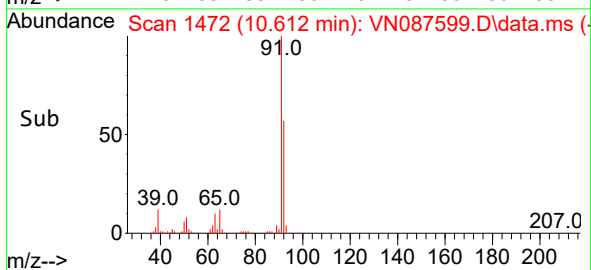
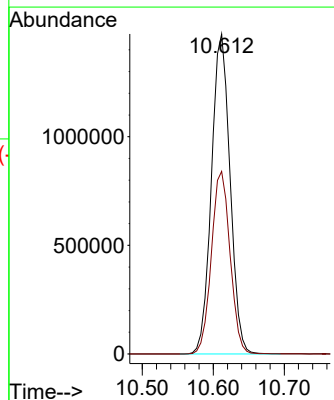
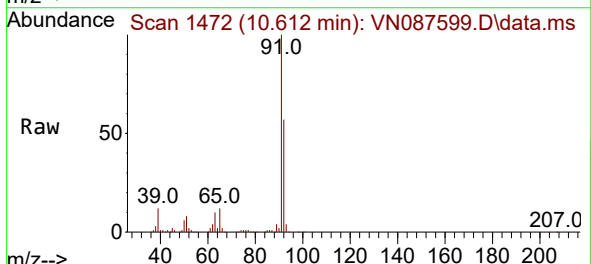
Instrument :
MSVOA_N
ClientSampleId :
001 willets Pt Blvd(july)

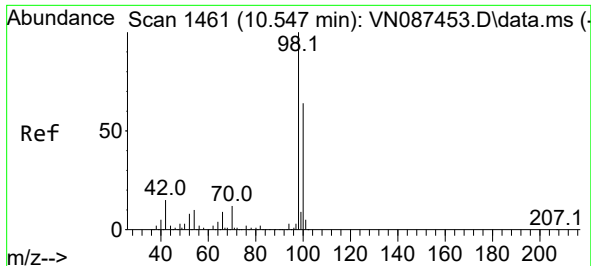
Tgt Ion: 95 Resp: 141026
Ion Ratio Lower Upper
95 100
174 69.6 52.3 78.5
176 66.5 49.8 74.8



#62
Toluene
Concen: 146.345 ug/l
RT: 10.612 min Scan# 1472
Delta R.T. 0.000 min
Lab File: VN087599.D
Acq: 18 Aug 2025 11:36

Tgt Ion: 91 Resp: 2676353
Ion Ratio Lower Upper
91 100
92 57.2 45.8 68.6

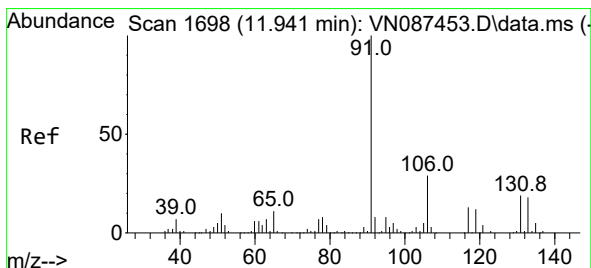
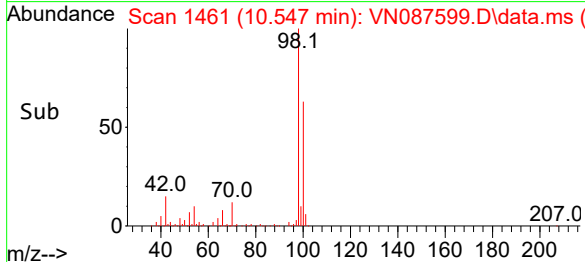
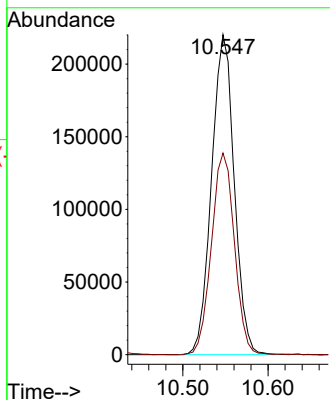
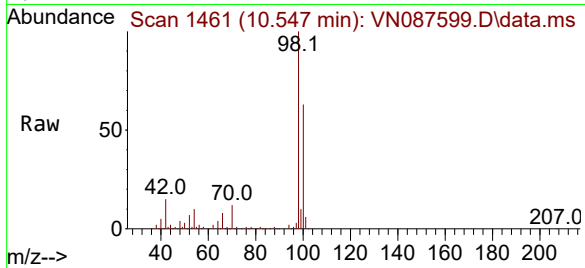




#63
Toluene-d8
Concen: 29.873 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. 0.000 min
Lab File: VN087599.D
Acq: 18 Aug 2025 11:36

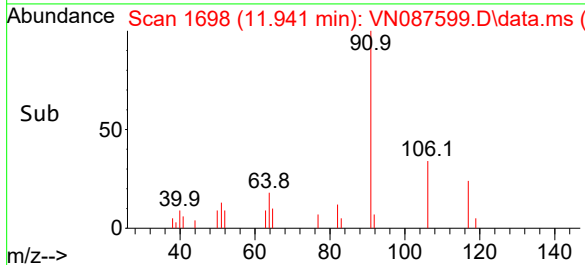
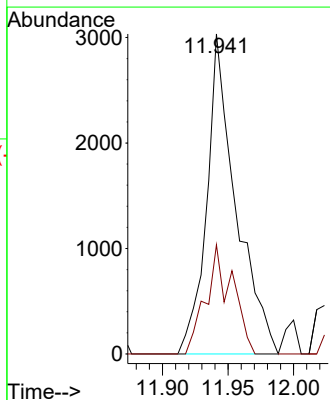
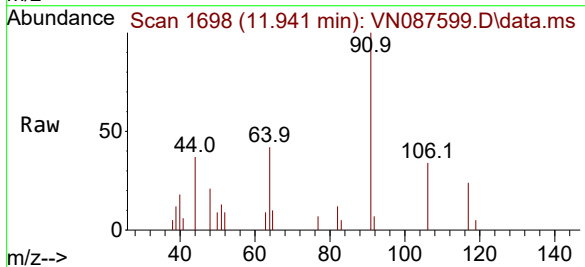
Instrument :
MSVOA_N
ClientSampleId :
001 willets Pt Blvd(july)

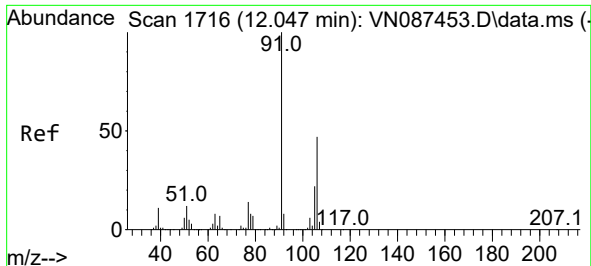
Tgt Ion: 98 Resp: 407272
Ion Ratio Lower Upper
98 100
100 63.8 50.5 75.7



#66
Ethyl Benzene
Concen: 0.230 ug/l
RT: 11.941 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VN087599.D
Acq: 18 Aug 2025 11:36

Tgt Ion: 91 Resp: 4693
Ion Ratio Lower Upper
91 100
106 34.1 22.9 34.3





#67

m/p-Xylenes

Concen: 0.531 ug/l

RT: 12.053 min Scan# 1717

Delta R.T. 0.006 min

Lab File: VN087599.D

Acq: 18 Aug 2025 11:36

Instrument :

MSVOA_N

ClientSampleId :

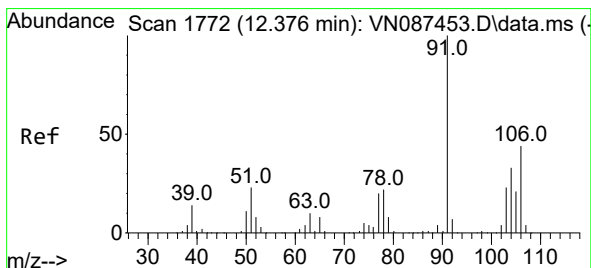
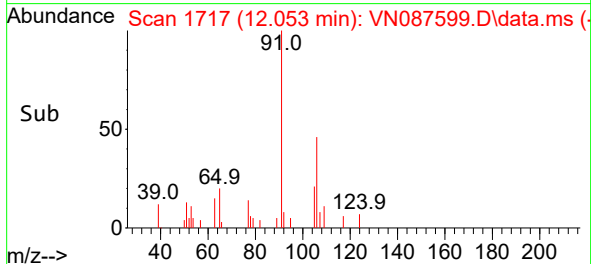
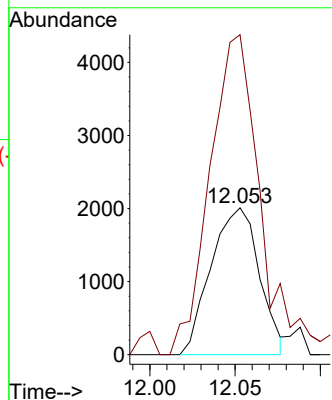
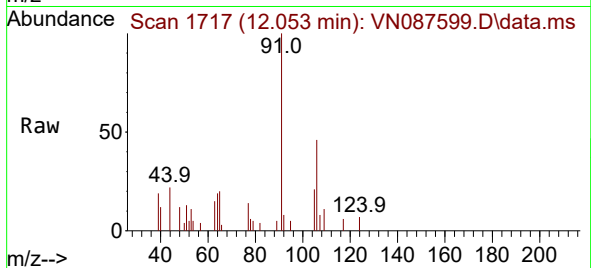
001 willets Pt Blvd(july)

Tgt Ion:106 Resp: 3975

Ion Ratio Lower Upper

106 100

91 226.1 174.2 261.2



#68

o-Xylene

Concen: 0.224 ug/l

RT: 12.376 min Scan# 1772

Delta R.T. 0.000 min

Lab File: VN087599.D

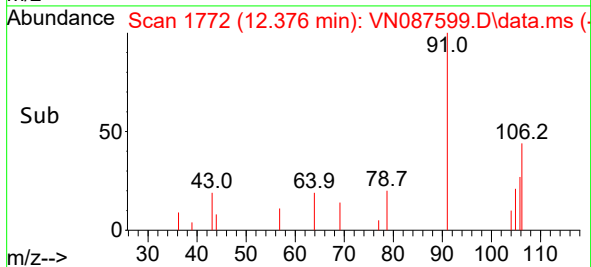
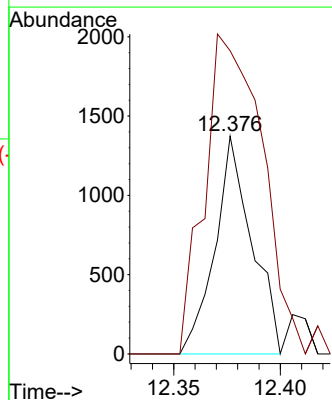
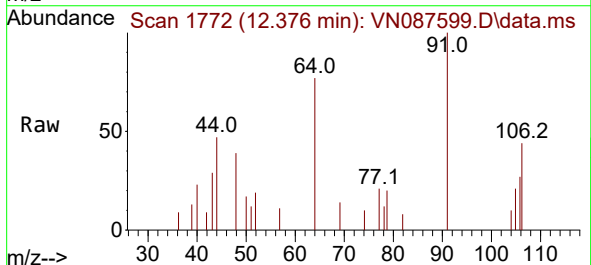
Acq: 18 Aug 2025 11:36

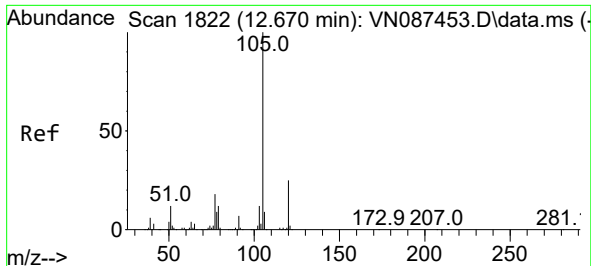
Tgt Ion:106 Resp: 1650

Ion Ratio Lower Upper

106 100

91 229.8 114.5 343.5

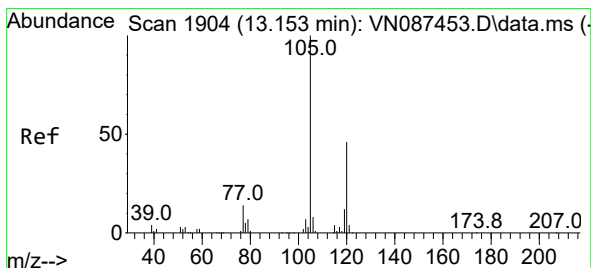
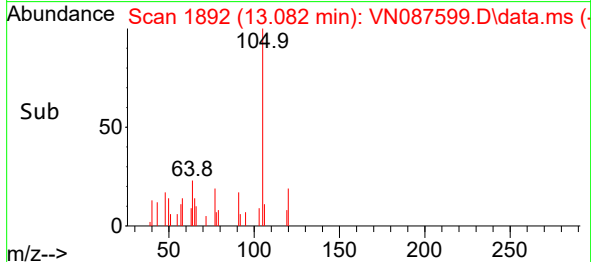
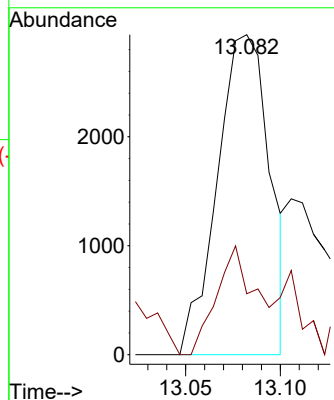
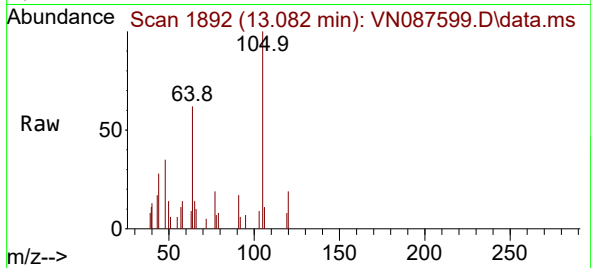




#70
Isopropylbenzene
Concen: 0.303 ug/l
RT: 13.082 min Scan# 1892
Delta R.T. 0.412 min
Lab File: VN087599.D
Acq: 18 Aug 2025 11:36

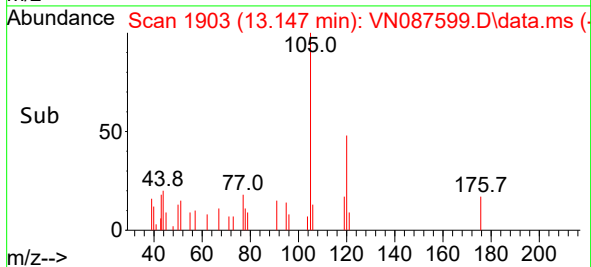
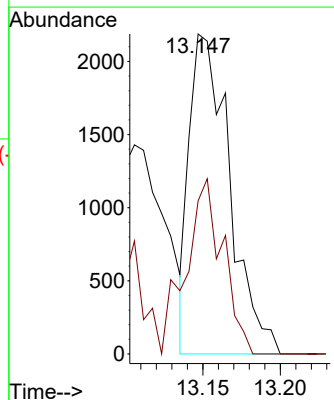
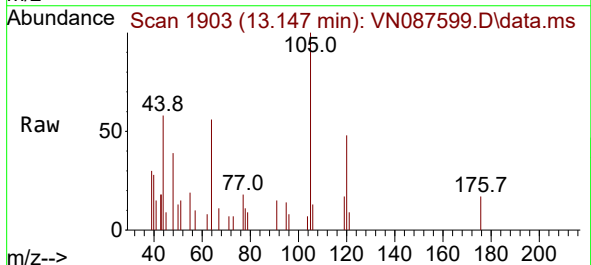
Instrument :
MSVOA_N
ClientSampleId :
001 willets Pt Blvd(july)

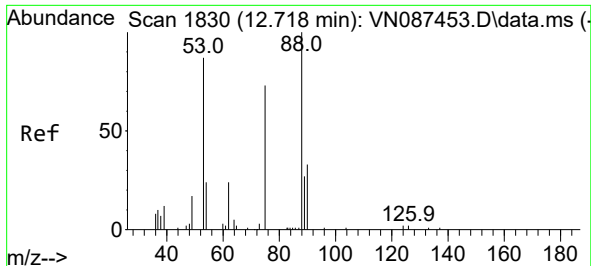
Tgt Ion:105 Resp: 5659
Ion Ratio Lower Upper
105 100
120 25.3 17.5 32.5



#76
1,3,5-Trimethylbenzene
Concen: 0.246 ug/l
RT: 13.147 min Scan# 1903
Delta R.T. -0.006 min
Lab File: VN087599.D
Acq: 18 Aug 2025 11:36

Tgt Ion:105 Resp: 3938
Ion Ratio Lower Upper
105 100
120 42.0 0.0 91.2

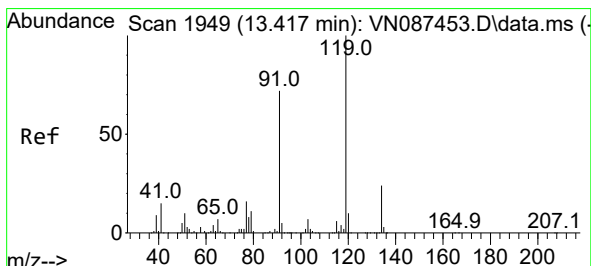
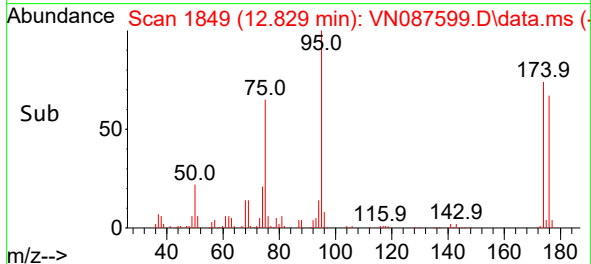
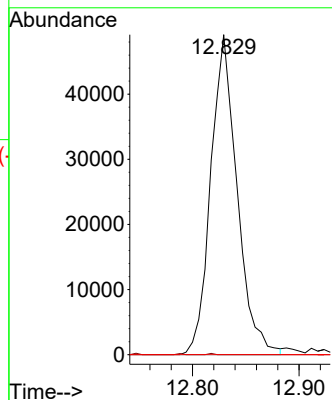
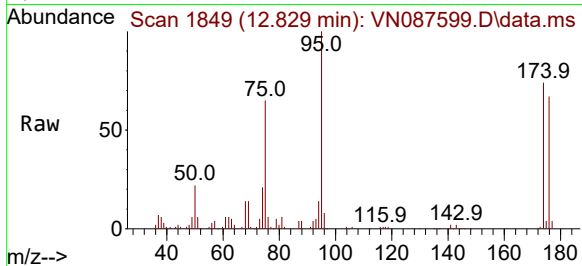




#77
 t-1,4-Dichloro-2-butene
 Concen: 37.385 ug/l
 RT: 12.829 min Scan# 1849
 Delta R.T. 0.112 min
 Lab File: VN087599.D
 Acq: 18 Aug 2025 11:36

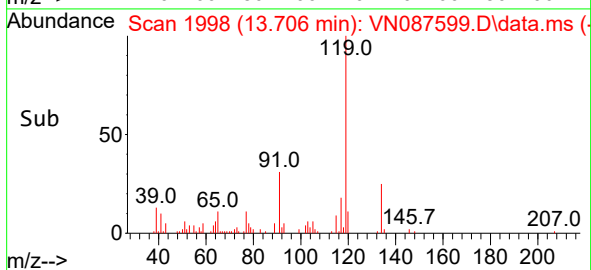
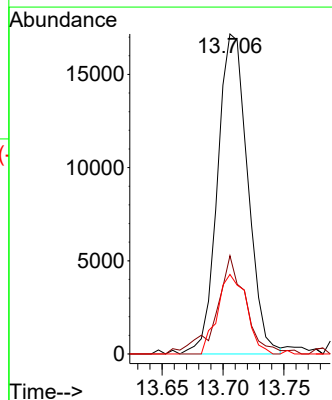
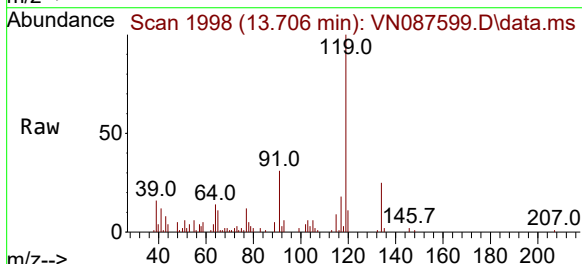
Instrument :
 MSVOA_N
 ClientSampleId :
 001 willets Pt Blvd(july)

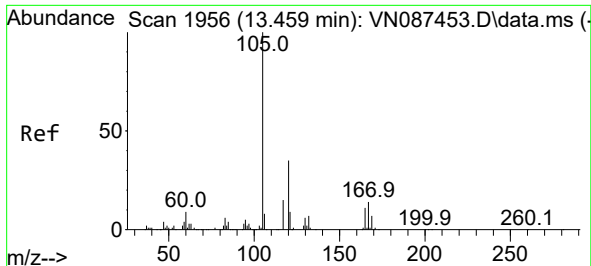
Tgt Ion: 75 Resp: 84475
 Ion Ratio Lower Upper
 75 100
 53 0.0 59.0 176.8#
 89 0.0 22.1 66.5#



#79
 tert-butylbenzene
 Concen: 2.192 ug/l
 RT: 13.706 min Scan# 1998
 Delta R.T. 0.288 min
 Lab File: VN087599.D
 Acq: 18 Aug 2025 11:36

Tgt Ion: 119 Resp: 29596
 Ion Ratio Lower Upper
 119 100
 91 25.4 0.0 141.6
 134 24.0 0.0 45.6

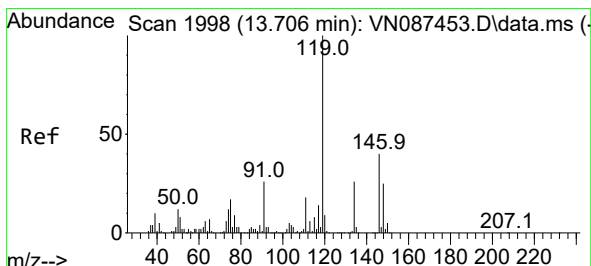
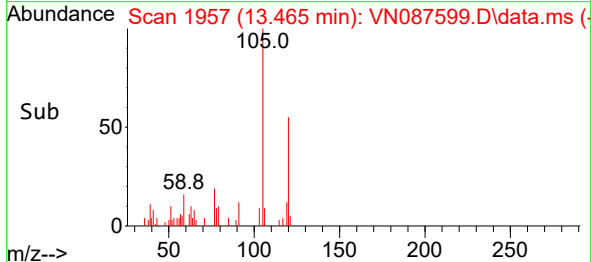
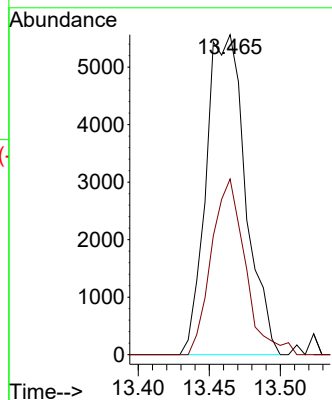
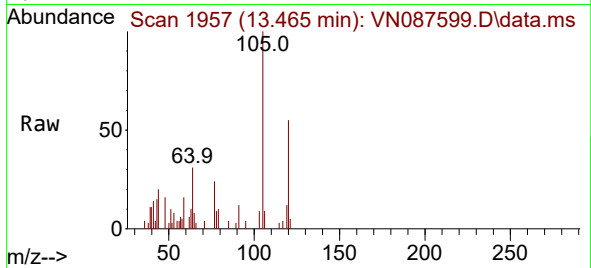




#80
 1,2,4-Trimethylbenzene
 Concen: 0.670 ug/l
 RT: 13.465 min Scan# 1957
 Delta R.T. 0.006 min
 Lab File: VN087599.D
 Acq: 18 Aug 2025 11:36

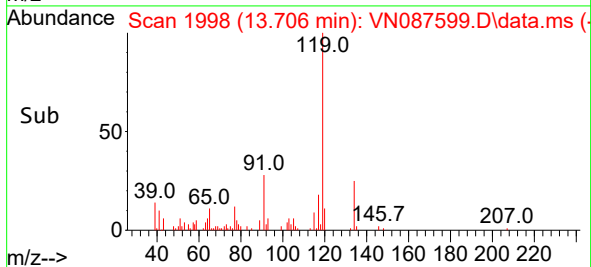
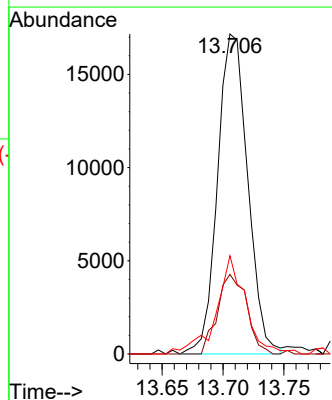
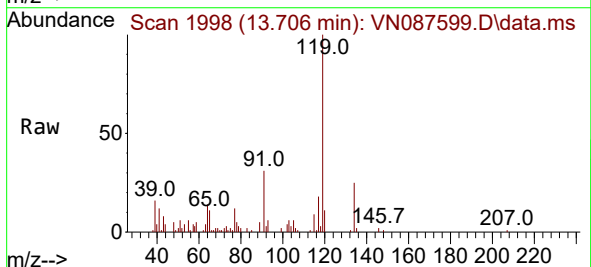
Instrument :
 MSVOA_N
 ClientSampleId :
 001 willets Pt Blvd(july)

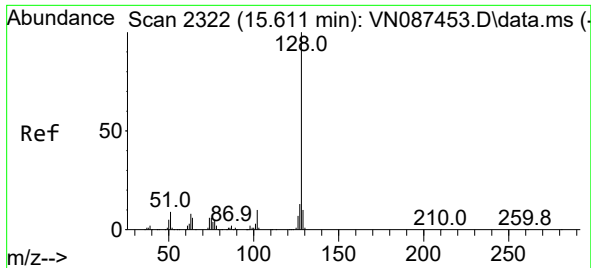
Tgt Ion:105 Resp: 10725
 Ion Ratio Lower Upper
 105 100
 120 46.5 0.0 87.2



#82
 p-Isopropyltoluene
 Concen: 1.814 ug/l
 RT: 13.706 min Scan# 1998
 Delta R.T. 0.000 min
 Lab File: VN087599.D
 Acq: 18 Aug 2025 11:36

Tgt Ion:119 Resp: 29596
 Ion Ratio Lower Upper
 119 100
 134 24.0 0.0 51.4
 91 25.4 0.0 52.0





#91

Naphthalene

Concen: 0.347 ug/l

RT: 15.617 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN087599.D

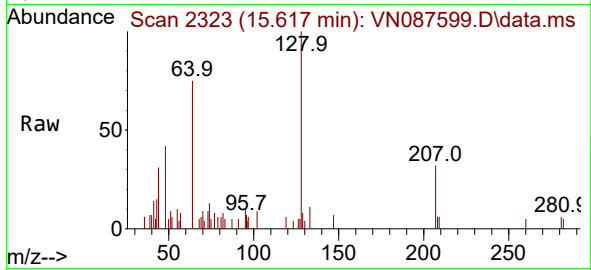
Acq: 18 Aug 2025 11:36

Instrument :

MSVOA_N

ClientSampleId :

001 willets Pt Blvd(july)



Tgt Ion:	128	Resp:	6238
Ion	Ratio	Lower	Upper
128	100		
127	5.1	10.2	15.4#
129	0.0	8.9	13.3#

