

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071825\
 Data File : VN087357.D
 Acq On : 18 Jul 2025 11:51
 Operator : JC\MD
 Sample : Q2630-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 001 Willets Pt Blvd (June)

Quant Time: Jul 18 23:17:33 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N062525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jun 25 10:49:56 2025
 Response via : Initial Calibration

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

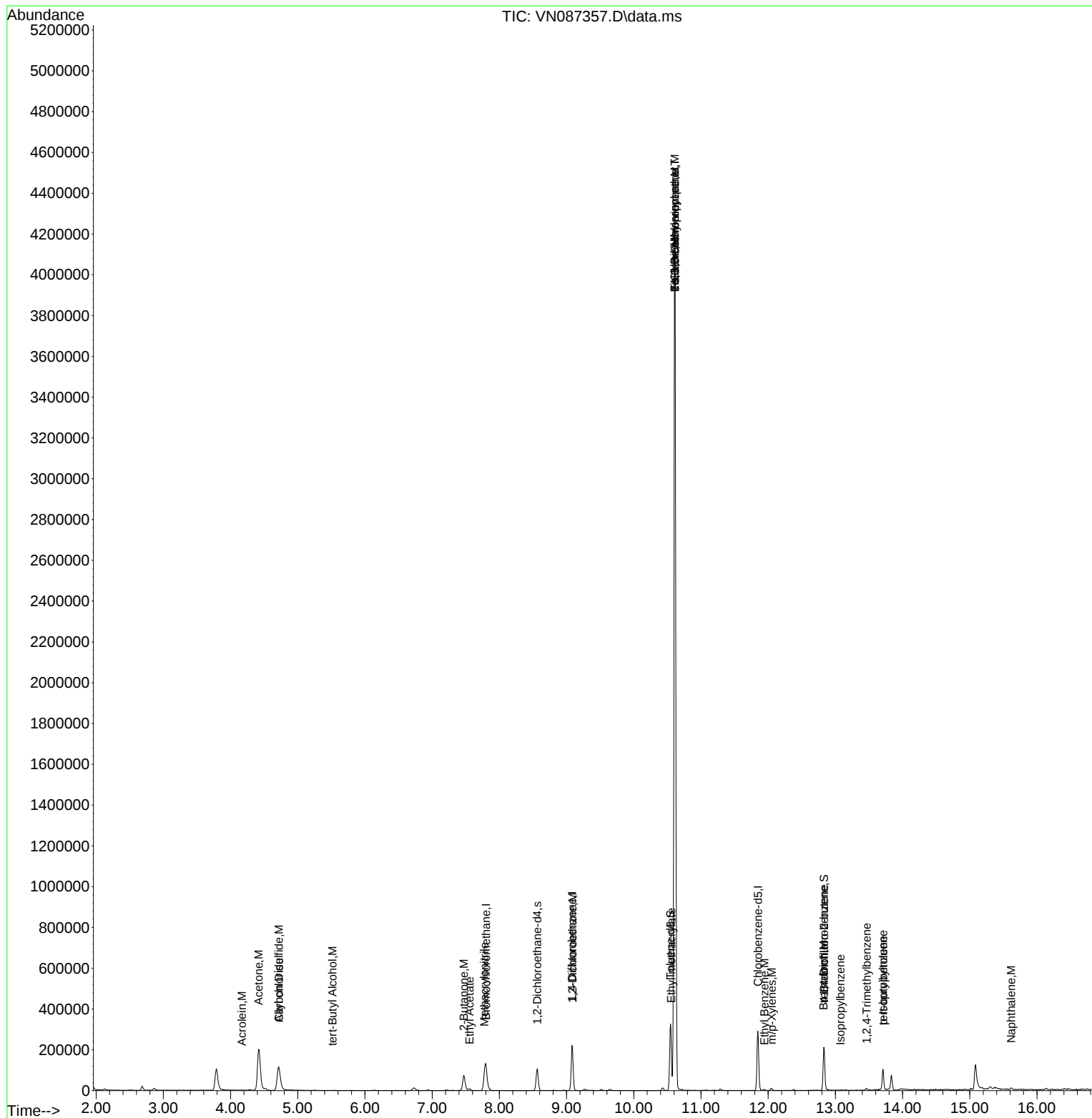
Internal Standards						
1) Bromochloromethane	7.800	128	36588	30.000	ug/l	-0.02
28) 1,4-Difluorobenzene	9.082	114	185825	30.000	ug/l	-0.02
57) Chlorobenzene-d5	11.847	117	168228	30.000	ug/l	-0.02
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.565	65	88806	32.214	ug/l	-0.02
Spiked Amount	30.000	Range	91 - 110	Recovery	=	107.367%
60) 4-Bromofluorobenzene	12.829	95	76262	29.377	ug/l	-0.02
Spiked Amount	30.000	Range	63 - 112	Recovery	=	97.933%
63) Toluene-d8	10.547	98	221749	29.357	ug/l	-0.02
Spiked Amount	30.000	Range	91 - 112	Recovery	=	97.867%
Target Compounds						
					Qvalue	
13) Acrolein	4.171	56	273	0.511	ug/l #	79
15) Acetone	4.418	58	122722	259.445	ug/l	83
16) Carbon Disulfide	4.718	76	8570	1.322	ug/l	99
17) Allyl chloride	4.718	41	17937	4.907	ug/l	93
23) tert-Butyl Alcohol	5.518	59	594	0.974	ug/l #	100
30) 2-Butanone	7.471	43	123087	63.000	ug/l #	77
35) Methacrylonitrile	7.777	41	9104	4.624	ug/l #	44
36) 1,2-Dichloroethane	9.088	62	7228	2.438	ug/l #	75
43) Ethyl Acetate	7.559	43	7324	2.077	ug/l #	75
48) t-1,3-Dichloropropene	10.612	75	24035	6.821	ug/l #	1
49) cis-1,3-Dichloropropene	10.612	75	24035	6.416	ug/l #	1
51) Ethyl methacrylate	10.559	69	698	0.206	ug/l #	75
55) 2-Chloroethyl vinyl ether	10.612	63	289071	148.948	ug/l #	1
56) Bromoform	12.823	173	331	0.206	ug/l #	34
62) Toluene	10.612	91	3247788	341.828	ug/l	98
66) Ethyl Benzene	11.947	91	3283	0.316	ug/l	96
67) m/p-Xylenes	12.053	106	3247	0.815	ug/l #	12
70) Isopropylbenzene	13.076	105	2068	0.218	ug/l	95
77) t-1,4-Dichloro-2-butene	12.829	75	39082	29.977	ug/l #	13
79) tert-butylbenzene	13.712	119	53649	8.280	ug/l	61
80) 1,2,4-Trimethylbenzene	13.464	105	4171	0.539	ug/l	94
82) p-Isopropyltoluene	13.712	119	53649	6.844	ug/l	96
91) Naphthalene	15.617	128	7793	0.839	ug/l #	93

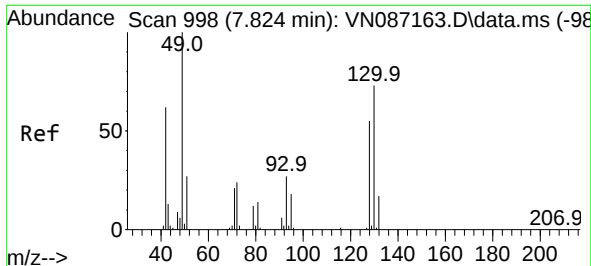
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Jun 25 10:49:56 2025
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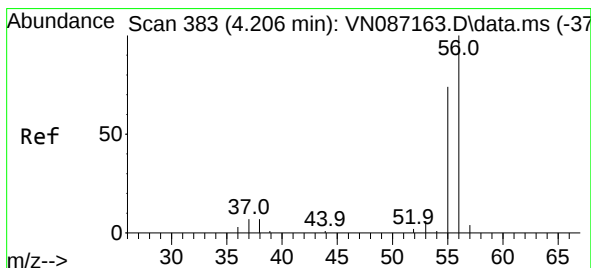
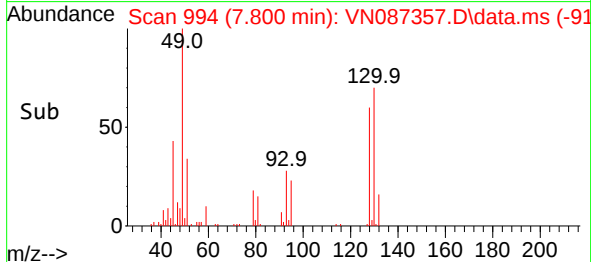
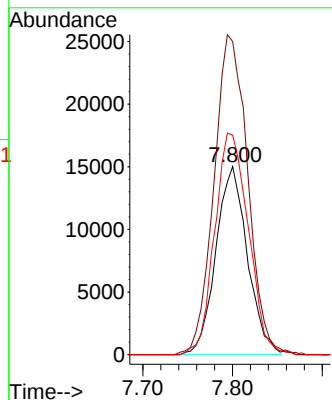
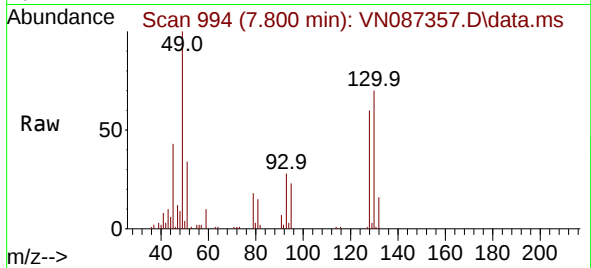




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.800 min Scan# 91
Delta R.T. -0.024 min
Lab File: VN087357.D
Acq: 18 Jul 2025 11:51

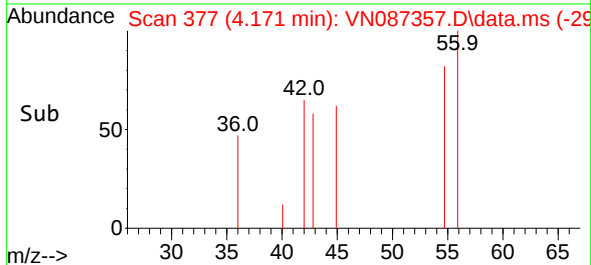
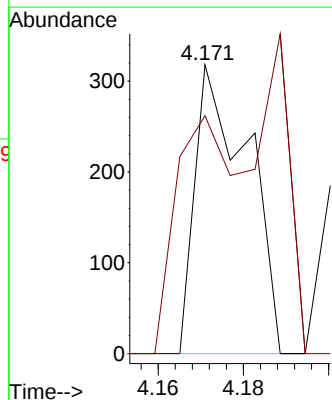
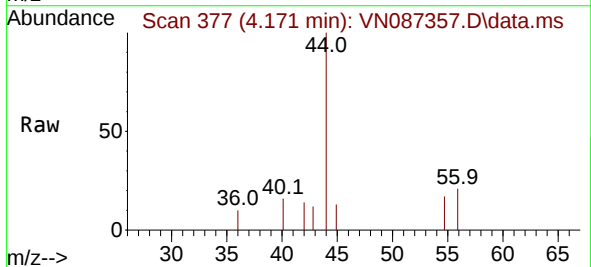
Instrument :
MSVOA_N
ClientSampleId :
001 Willets Pt Blvd (June)

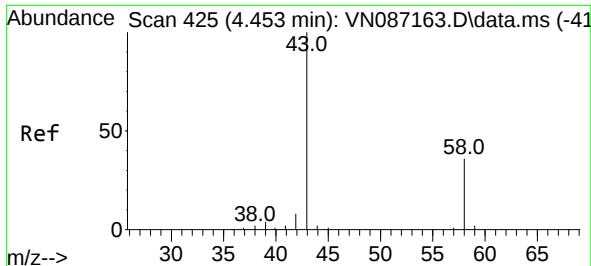
Tgt Ion:128 Resp: 36588
Ion Ratio Lower Upper
128 100
49 181.8 0.0 450.5
130 126.3 0.0 320.7



#13
Acrolein
Concen: 0.511 ug/l
RT: 4.171 min Scan# 377
Delta R.T. -0.035 min
Lab File: VN087357.D
Acq: 18 Jul 2025 11:51

Tgt Ion: 56 Resp: 273
Ion Ratio Lower Upper
56 100
55 87.2 55.7 83.5#





#15

Acetone

Concen: 259.445 ug/l

RT: 4.418 min Scan# 41

Delta R.T. -0.035 min

Lab File: VN087357.D

Acq: 18 Jul 2025 11:51

Instrument :

MSVOA_N

ClientSampleId :

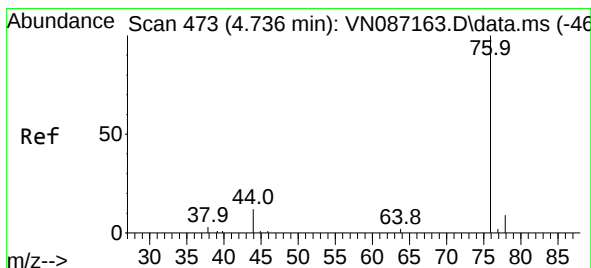
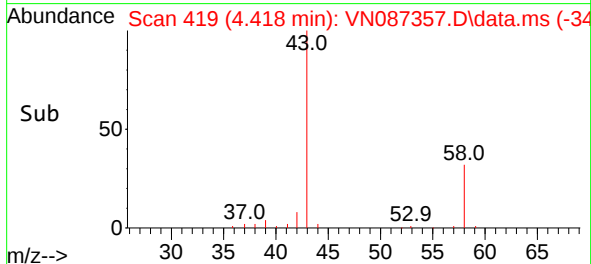
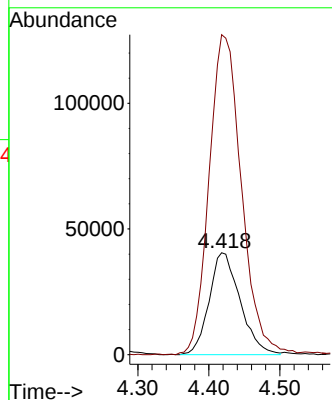
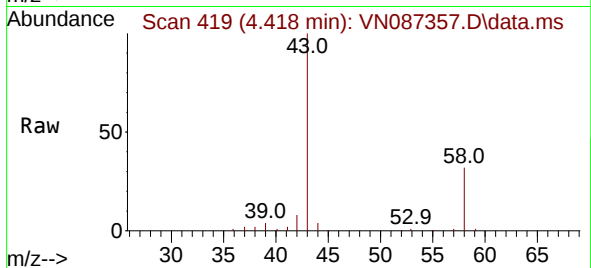
001 Willets Pt Blvd (June)

Tgt Ion: 58 Resp: 122722

Ion Ratio Lower Upper

58 100

43 312.3 224.3 336.5



#16

Carbon Disulfide

Concen: 1.322 ug/l

RT: 4.718 min Scan# 470

Delta R.T. -0.018 min

Lab File: VN087357.D

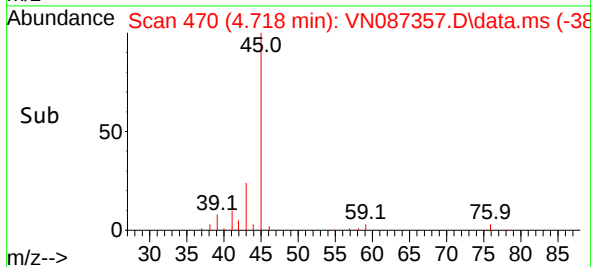
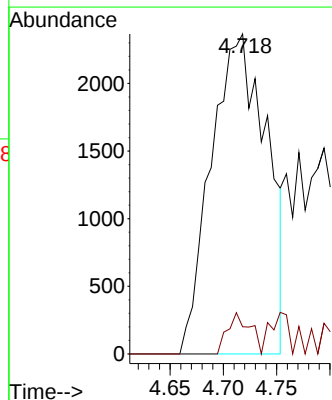
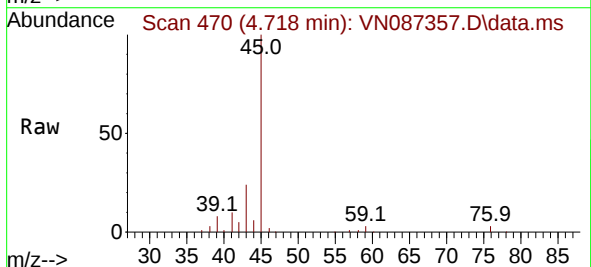
Acq: 18 Jul 2025 11:51

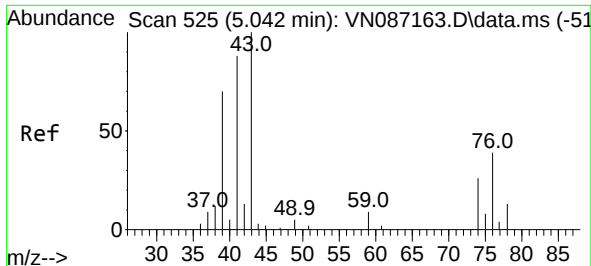
Tgt Ion: 76 Resp: 8570

Ion Ratio Lower Upper

76 100

78 8.5 7.2 10.8





#17

Allyl chloride

Concen: 4.907 ug/l

RT: 4.718 min Scan# 41

Delta R.T. -0.324 min

Lab File: VN087357.D

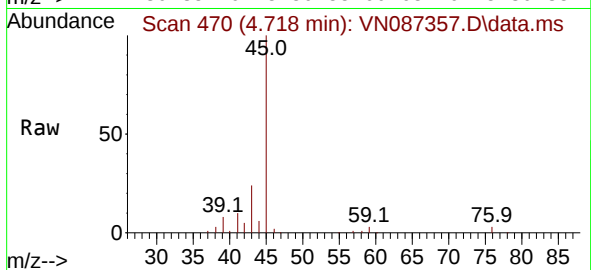
Acq: 18 Jul 2025 11:51

Instrument :

MSVOA_N

ClientSampleId :

001 Willets Pt Blvd (June)



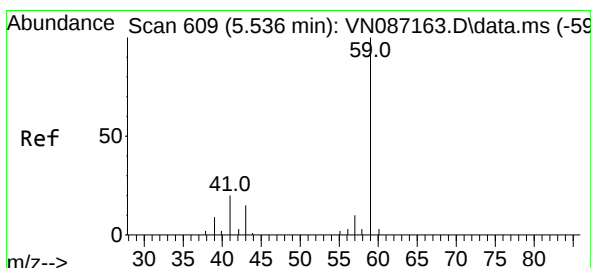
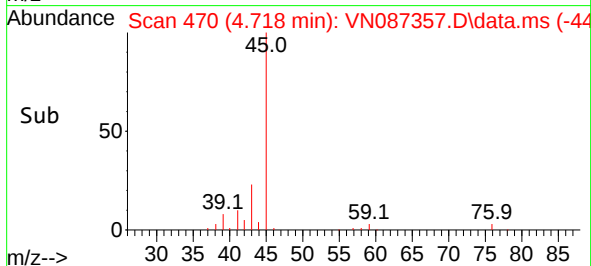
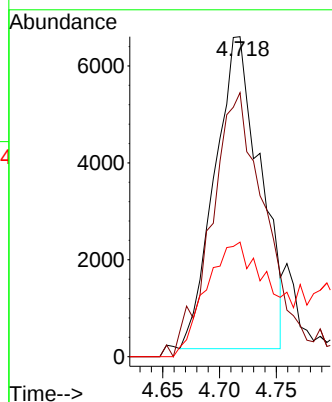
Tgt Ion: 41 Resp: 17937

Ion Ratio Lower Upper

41 100

39 76.5 36.0 108.0

76 33.6 19.5 58.5



#23

tert-Butyl Alcohol

Concen: 0.974 ug/l

RT: 5.518 min Scan# 606

Delta R.T. -0.018 min

Lab File: VN087357.D

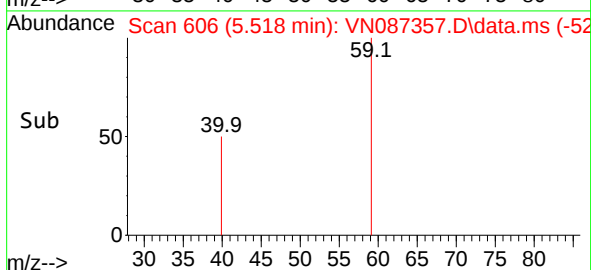
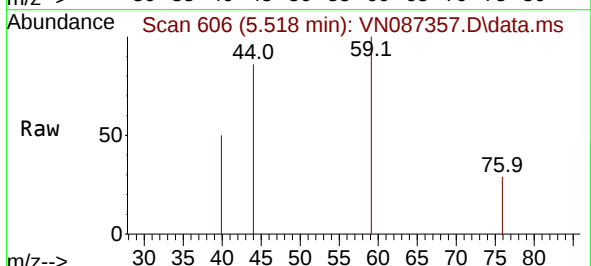
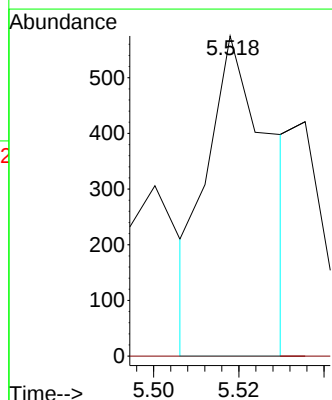
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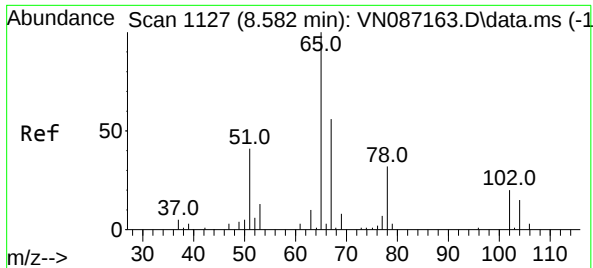
Tgt Ion: 59 Resp: 594

Ion Ratio Lower Upper

59 100

52 0.0 0.0 0.0

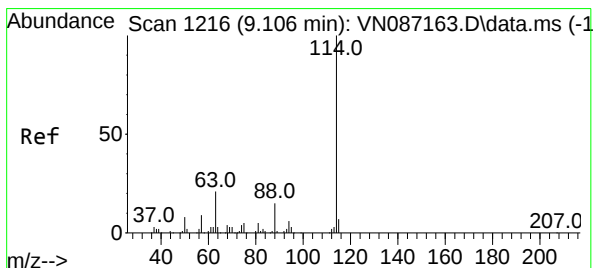
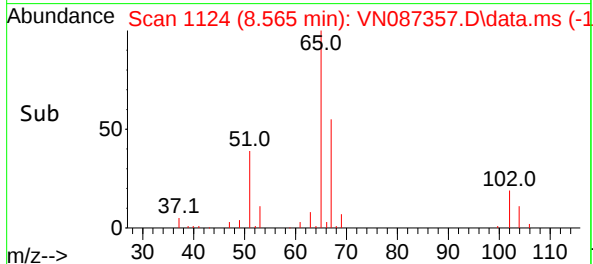
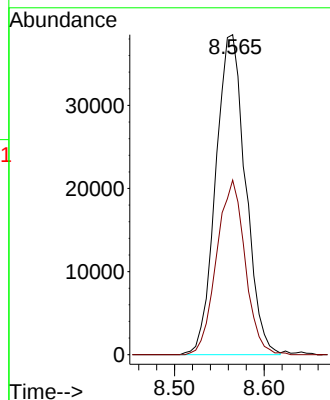
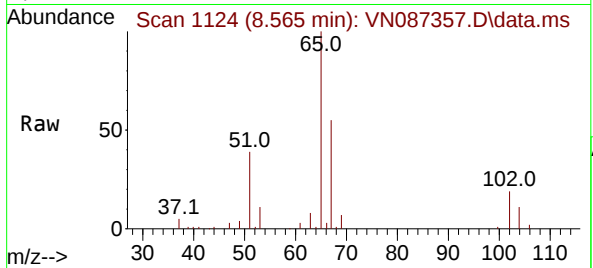




#27
1,2-Dichloroethane-d4
Concen: 32.214 ug/l
RT: 8.565 min Scan# 1124
Delta R.T. -0.018 min
Lab File: VN087357.D
Acq: 18 Jul 2025 11:51

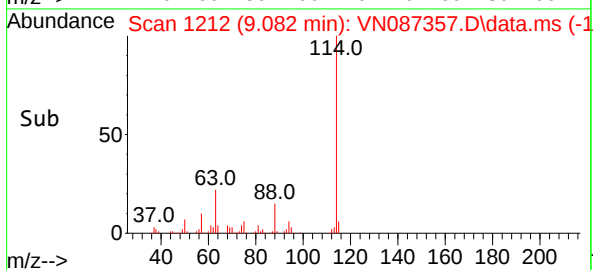
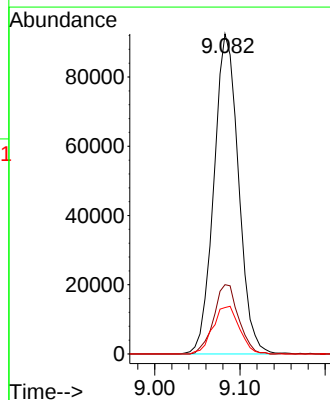
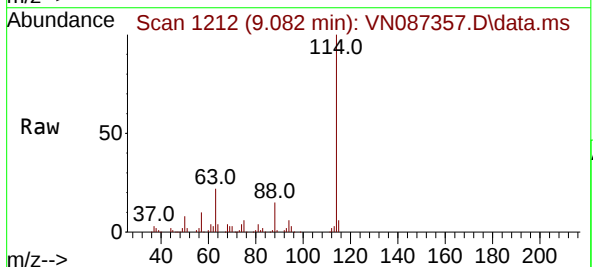
Instrument :
MSVOA_N
ClientSampleId :
001 Willets Pt Blvd (June)

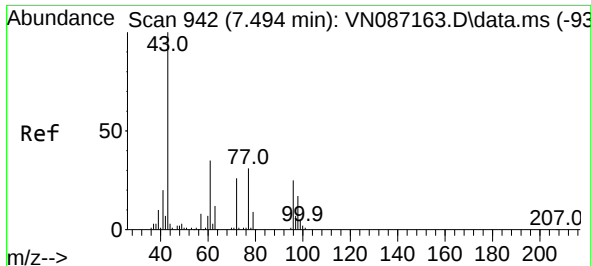
Tgt Ion: 65 Resp: 88806
Ion Ratio Lower Upper
65 100
67 52.0 41.9 62.9



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.082 min Scan# 1212
Delta R.T. -0.024 min
Lab File: VN087357.D
Acq: 18 Jul 2025 11:51

Tgt Ion: 114 Resp: 185825
Ion Ratio Lower Upper
114 100
63 21.8 17.0 25.4
88 16.1 12.6 19.0

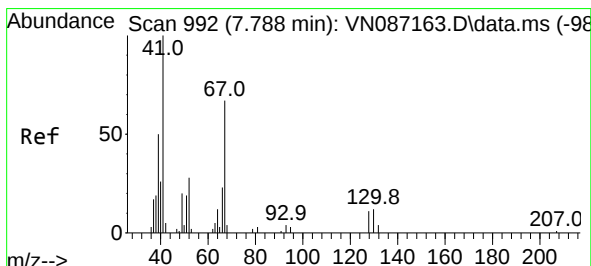
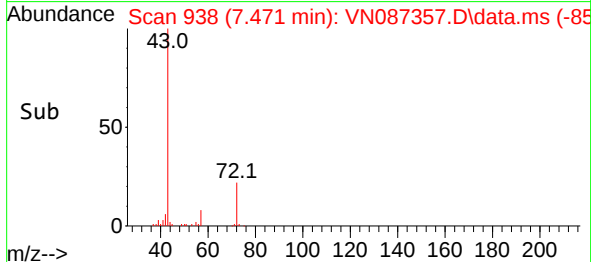
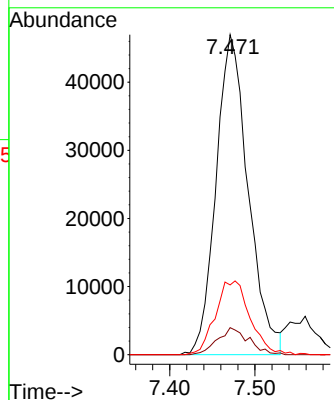
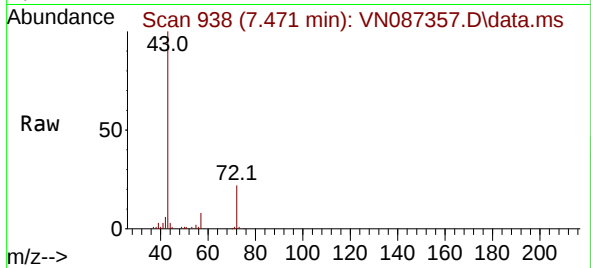




#30
2-Butanone
Concen: 63.000 ug/l
RT: 7.471 min Scan# 910
Delta R.T. -0.024 min
Lab File: VN087357.D
Acq: 18 Jul 2025 11:51

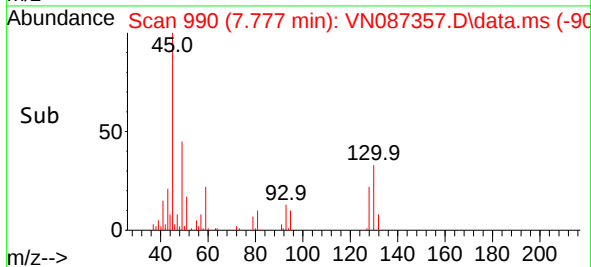
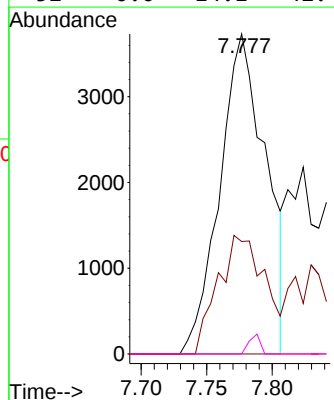
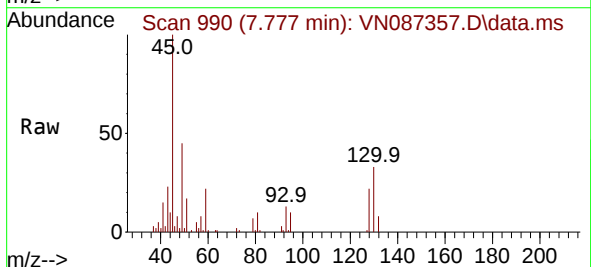
Instrument :
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001 Willets Pt Blvd (June)

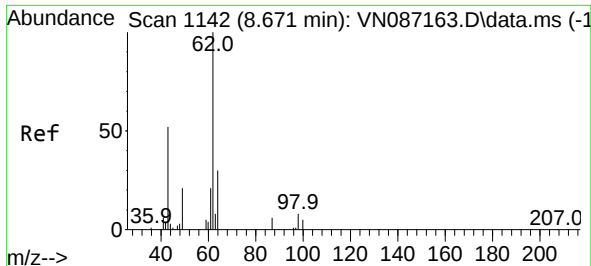
Tgt Ion: 43 Resp: 123087
Ion Ratio Lower Upper
43 100
57 8.1 6.3 9.5
72 12.1 21.8 32.6#



#35
Methacrylonitrile
Concen: 4.624 ug/l
RT: 7.777 min Scan# 990
Delta R.T. -0.012 min
Lab File: VN087357.D
Acq: 18 Jul 2025 11:51

Tgt Ion: 41 Resp: 9104
Ion Ratio Lower Upper
41 100
39 35.2 24.4 73.2
67 0.0 33.3 99.8#
52 0.0 14.1 42.4#

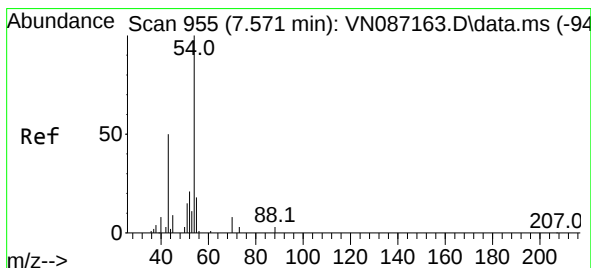
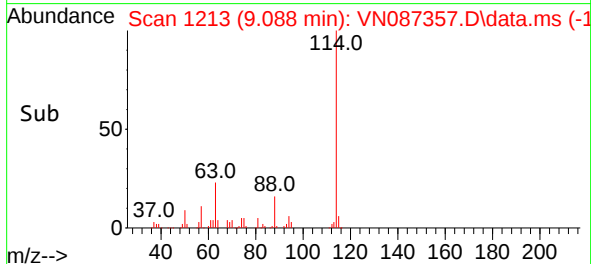
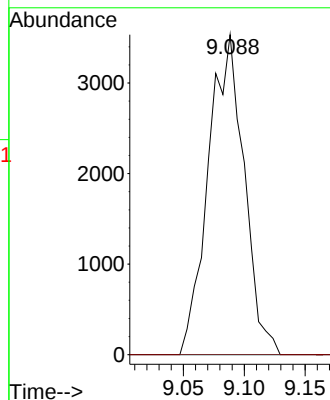
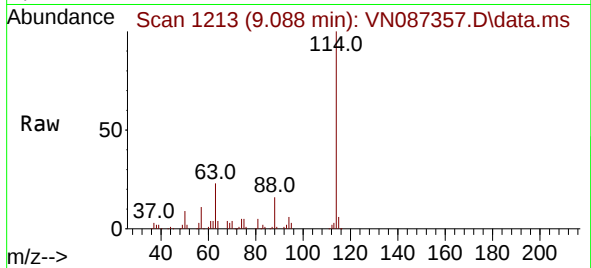




#36
1,2-Dichloroethane
Concen: 2.438 ug/l
RT: 9.088 min Scan# 1142
Delta R.T. 0.418 min
Lab File: VN087357.D
Acq: 18 Jul 2025 11:51

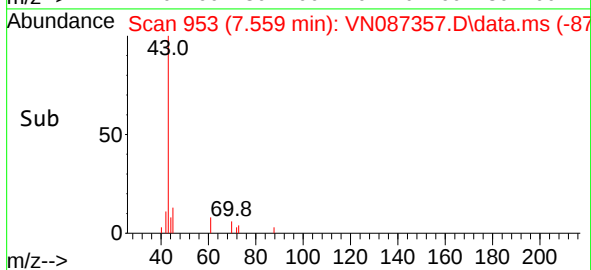
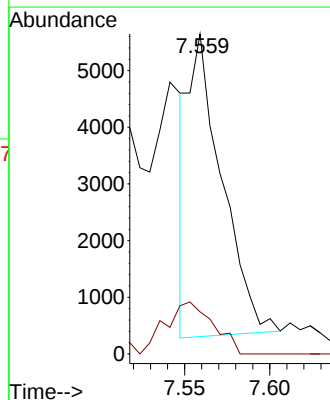
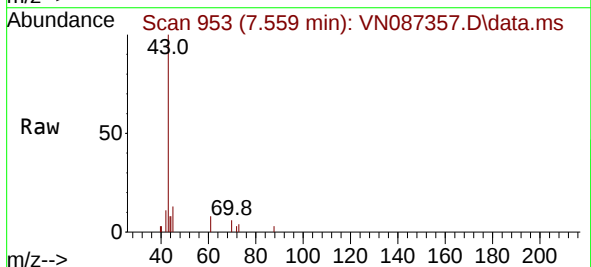
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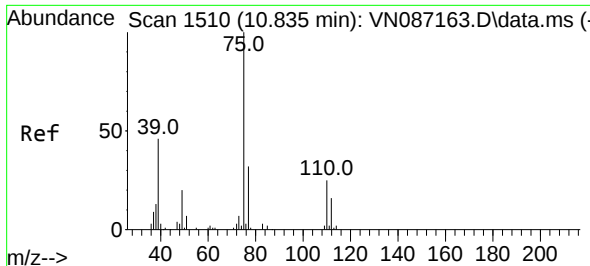
Tgt Ion: 62 Resp: 7228
Ion Ratio Lower Upper
62 100
98 0.0 7.2 10.8#



#43
Ethyl Acetate
Concen: 2.077 ug/l
RT: 7.559 min Scan# 953
Delta R.T. -0.012 min
Lab File: VN087357.D
Acq: 18 Jul 2025 11:51

Tgt Ion: 43 Resp: 7324
Ion Ratio Lower Upper
43 100
45 24.6 11.5 17.3#

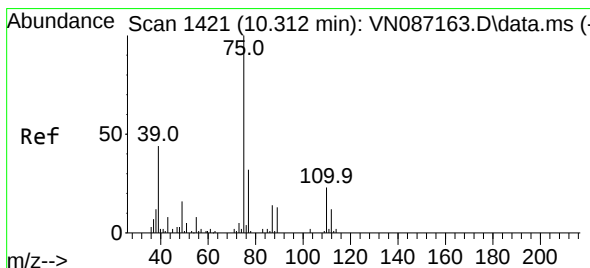
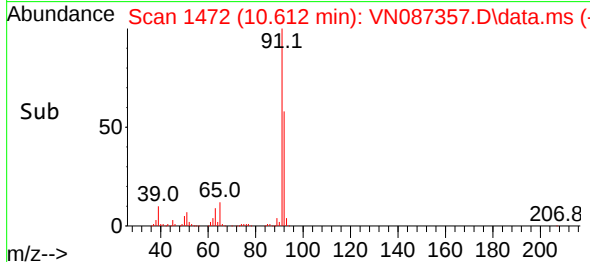
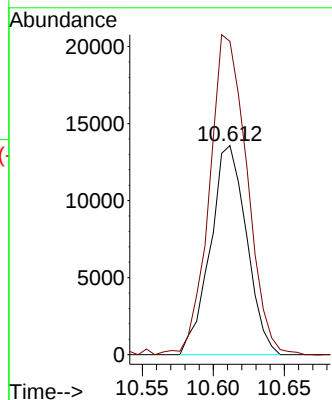
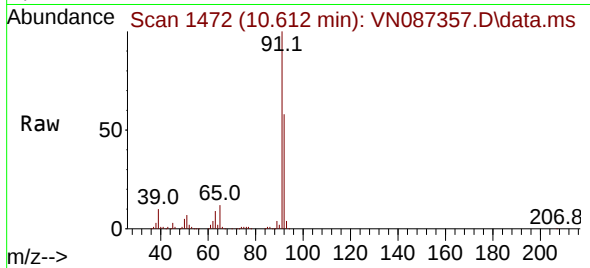




#48
t-1,3-Dichloropropene
Concen: 6.821 ug/l
RT: 10.612 min Scan# 1472
Delta R.T. -0.224 min
Lab File: VN087357.D
Acq: 18 Jul 2025 11:51

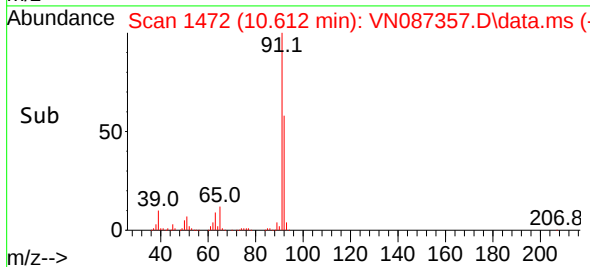
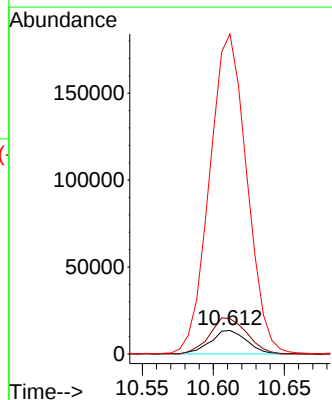
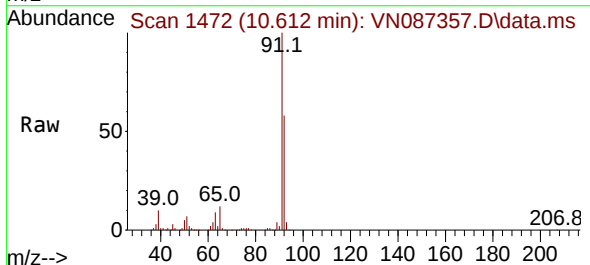
Instrument :
MSVOA_N
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001 Willets Pt Blvd (June)

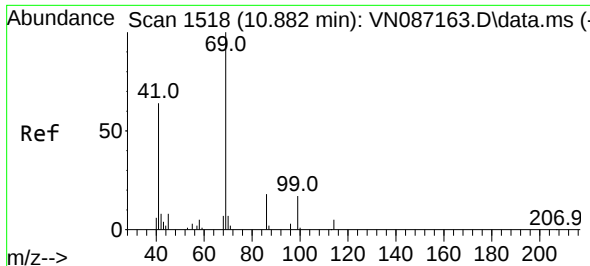
Tgt Ion: 75 Resp: 24035
Ion Ratio Lower Upper
75 100
77 147.3 25.4 38.0#



#49
cis-1,3-Dichloropropene
Concen: 6.416 ug/l
RT: 10.612 min Scan# 1472
Delta R.T. 0.300 min
Lab File: VN087357.D
Acq: 18 Jul 2025 11:51

Tgt Ion: 75 Resp: 24035
Ion Ratio Lower Upper
75 100
77 147.3 25.4 38.2#
39 1335.2 35.3 52.9#

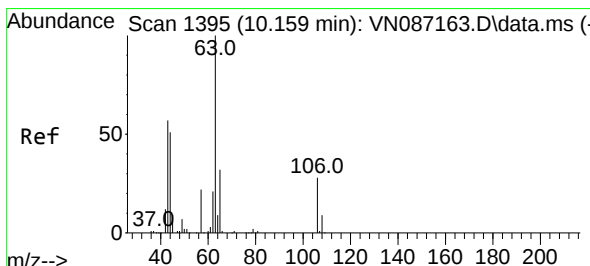
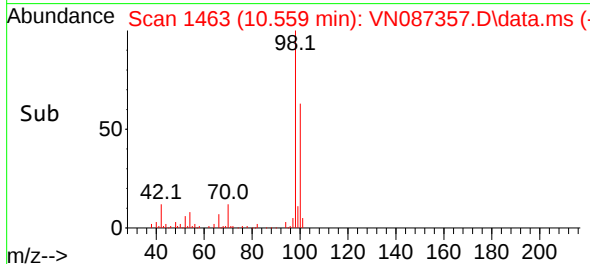
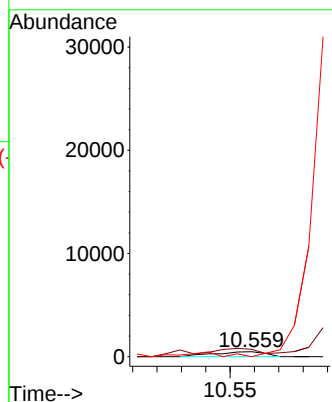
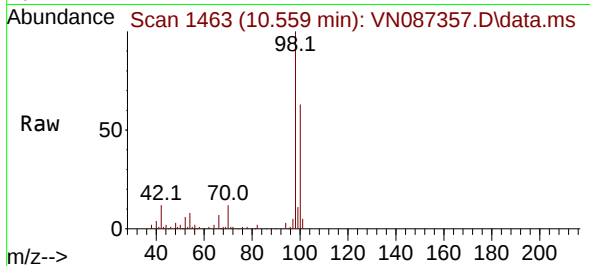




#51
Ethyl methacrylate
Concen: 0.206 ug/l
RT: 10.559 min Scan# 1463
Delta R.T. -0.324 min
Lab File: VN087357.D
Acq: 18 Jul 2025 11:51

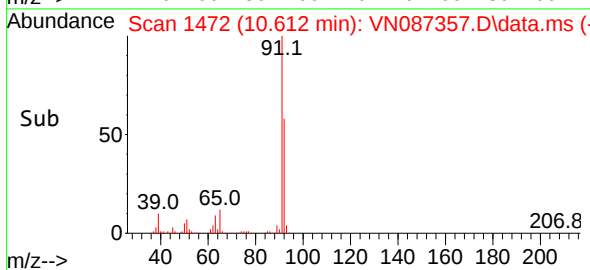
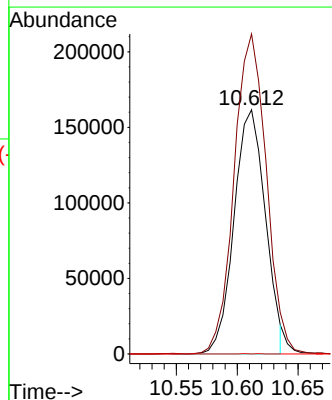
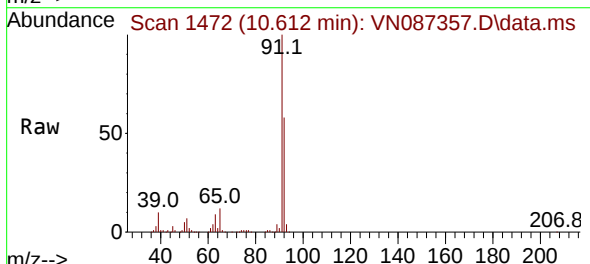
Instrument :
MSVOA_N
ClientSampleId :
001 Willets Pt Blvd (June)

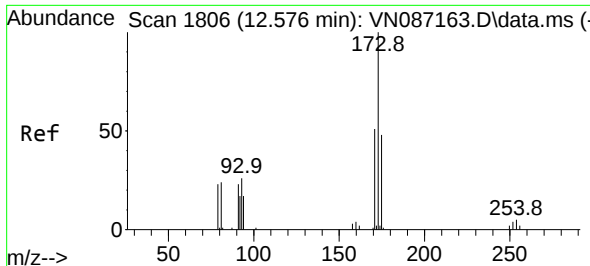
Tgt Ion: 69 Resp: 698
Ion Ratio Lower Upper
69 100
41 70.9 31.8 95.3
39 0.0 15.3 45.8#



#55
2-Chloroethyl vinyl ether
Concen: 148.948 ug/l
RT: 10.612 min Scan# 1472
Delta R.T. 0.453 min
Lab File: VN087357.D
Acq: 18 Jul 2025 11:51

Tgt Ion: 63 Resp: 289071
Ion Ratio Lower Upper
63 100
65 133.1 25.6 38.4#
106 0.0 21.9 32.9#

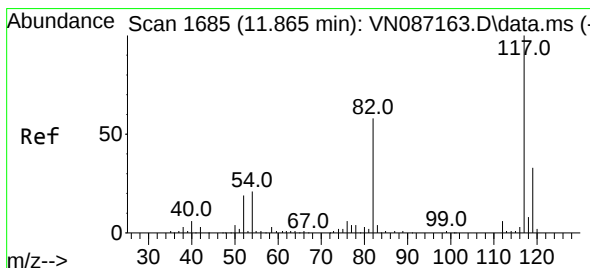
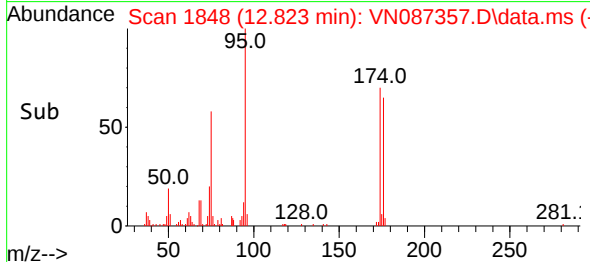
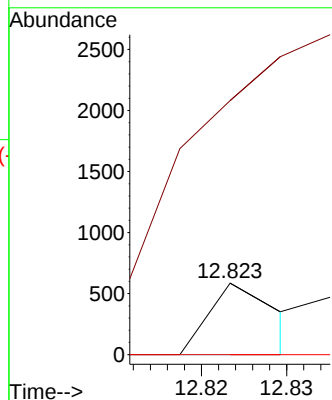
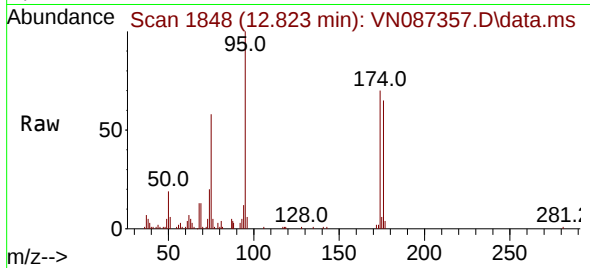




#56
Bromoform
Concen: 0.206 ug/l
RT: 12.823 min Scan# 1848
Delta R.T. 0.247 min
Lab File: VN087357.D
Acq: 18 Jul 2025 11:51

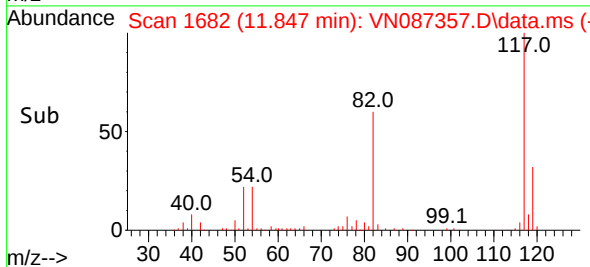
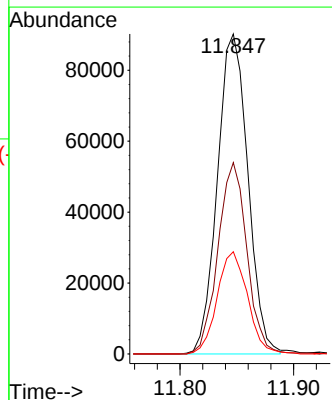
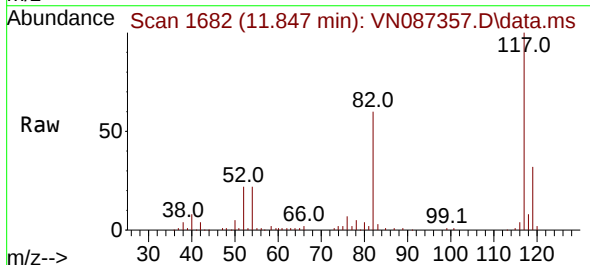
Instrument :
MSVOA_N
ClientSampleId :
001 Willets Pt Blvd (June)

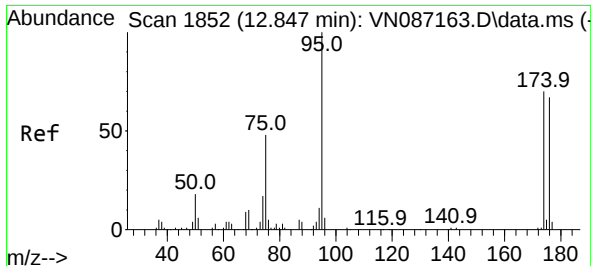
Tgt Ion:173 Resp: 331
Ion Ratio Lower Upper
173 100
175 0.0 38.7 58.1#
254 0.0 4.2 6.4#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.847 min Scan# 1682
Delta R.T. -0.018 min
Lab File: VN087357.D
Acq: 18 Jul 2025 11:51

Tgt Ion:117 Resp: 168228
Ion Ratio Lower Upper
117 100
82 56.9 45.4 68.2
119 31.9 26.2 39.4

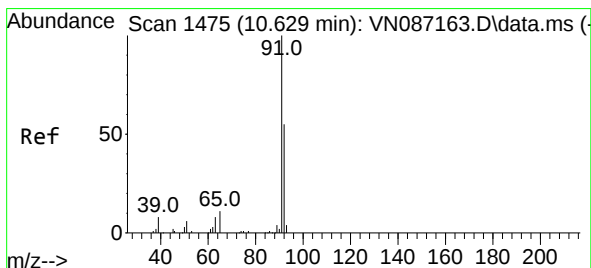
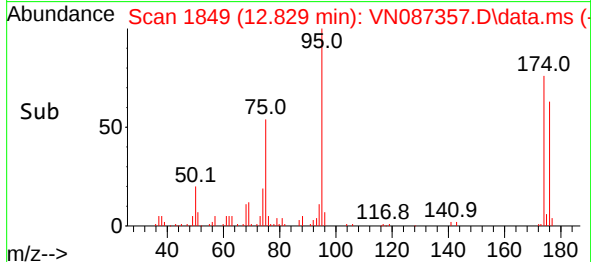
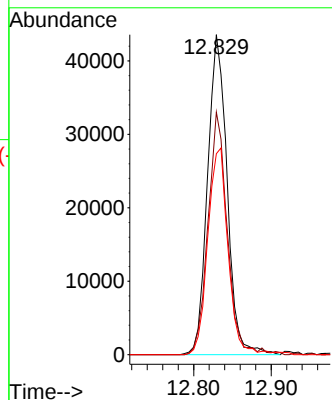
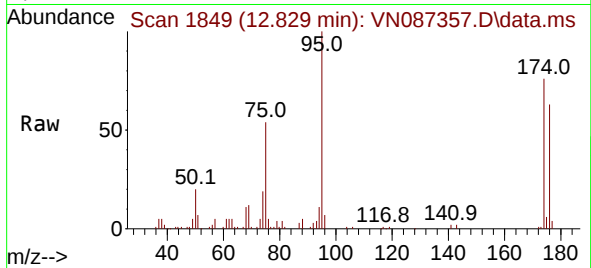




#60
4-Bromofluorobenzene
Concen: 29.377 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.018 min
Lab File: VN087357.D
Acq: 18 Jul 2025 11:51

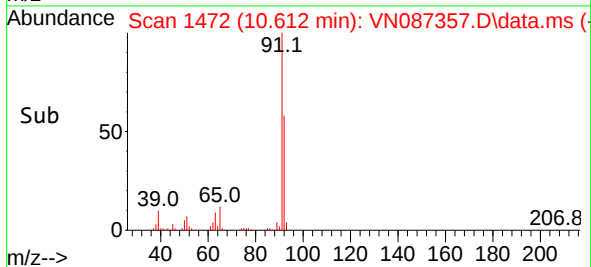
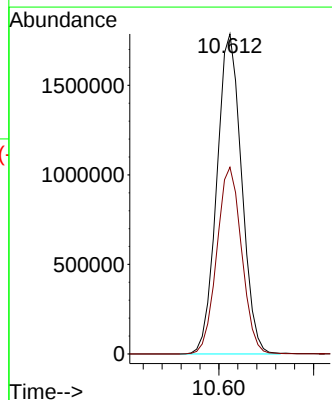
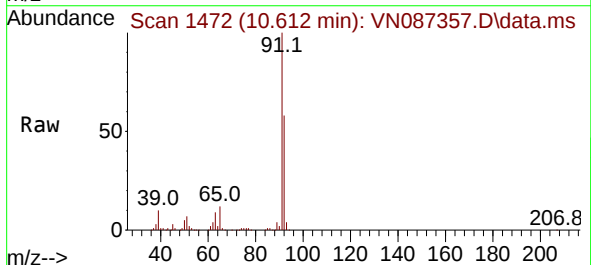
Instrument :
MSVOA_N
ClientSampleId :
001 Willets Pt Blvd (June)

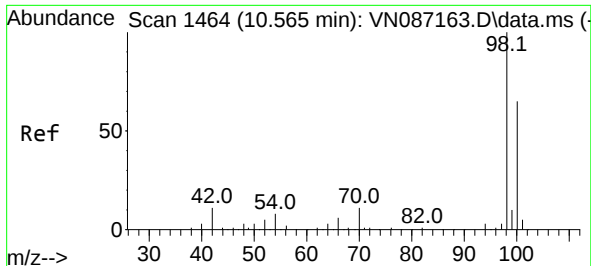
Tgt Ion: 95 Resp: 76262
Ion Ratio Lower Upper
95 100
174 73.4 54.5 81.7
176 66.4 51.9 77.9



#62
Toluene
Concen: 341.828 ug/l
RT: 10.612 min Scan# 1472
Delta R.T. -0.018 min
Lab File: VN087357.D
Acq: 18 Jul 2025 11:51

Tgt Ion: 91 Resp: 3247788
Ion Ratio Lower Upper
91 100
92 58.5 45.8 68.8

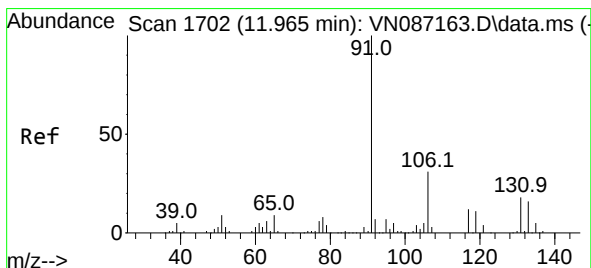
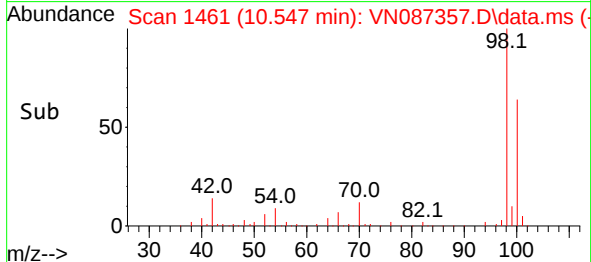
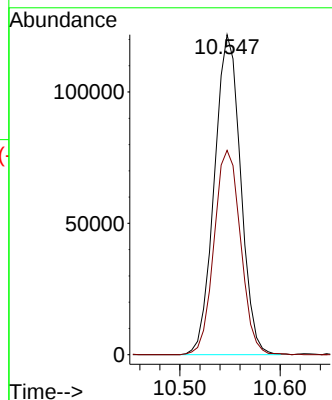
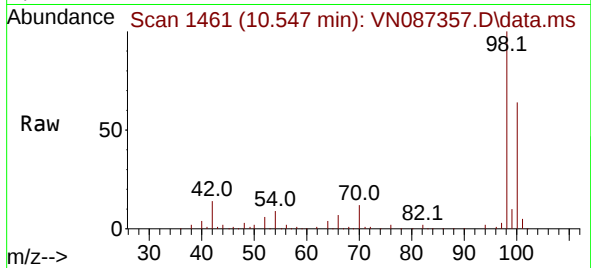




#63
Toluene-d8
Concen: 29.357 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.018 min
Lab File: VN087357.D
Acq: 18 Jul 2025 11:51

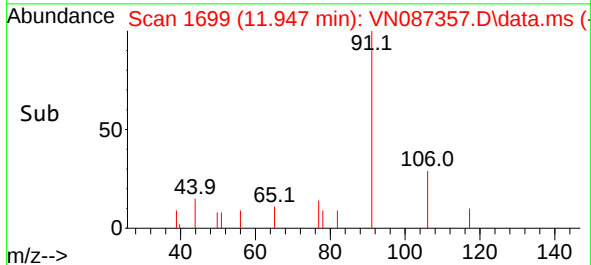
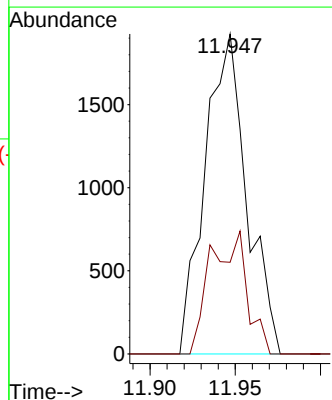
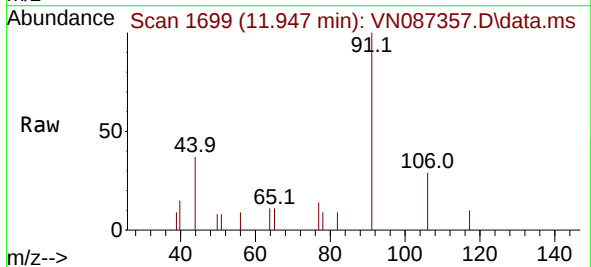
Instrument :
MSVOA_N
ClientSampleId :
001 Willets Pt Blvd (June)

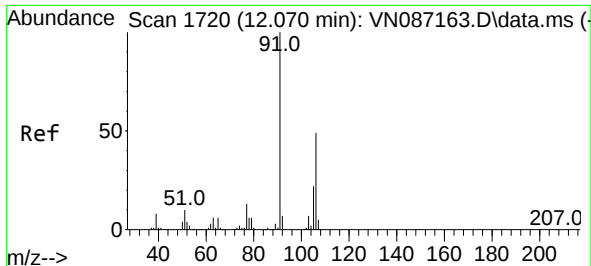
Tgt Ion: 98 Resp: 221749
Ion Ratio Lower Upper
98 100
100 64.4 52.5 78.7



#66
Ethyl Benzene
Concen: 0.316 ug/l
RT: 11.947 min Scan# 1699
Delta R.T. -0.018 min
Lab File: VN087357.D
Acq: 18 Jul 2025 11:51

Tgt Ion: 91 Resp: 3283
Ion Ratio Lower Upper
91 100
106 28.6 24.8 37.2





#67

m/p-Xylenes

Concen: 0.815 ug/l

RT: 12.053 min Scan# 11

Delta R.T. -0.018 min

Lab File: VN087357.D

Acq: 18 Jul 2025 11:51

Instrument :

MSVOA_N

ClientSampleId :

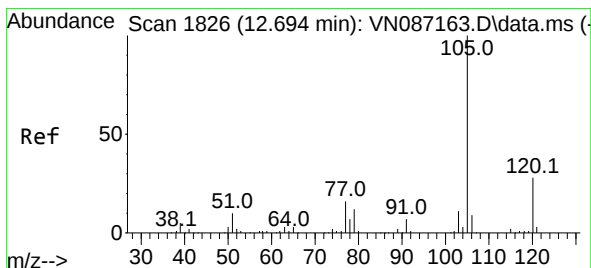
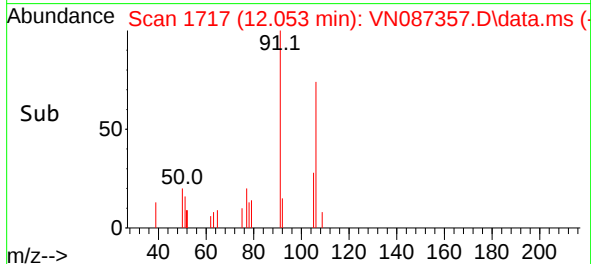
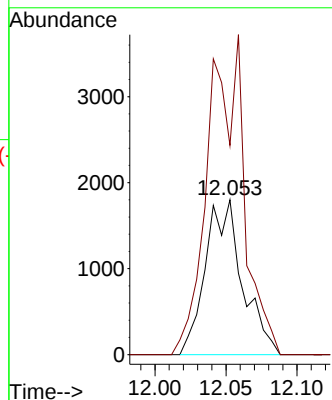
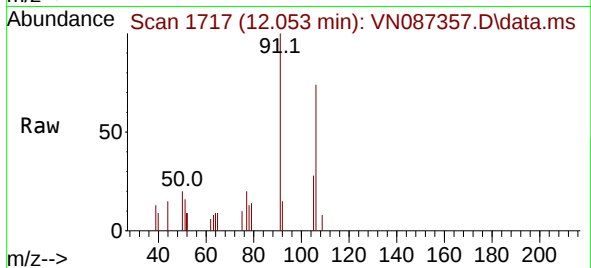
001 Willets Pt Blvd (June)

Tgt Ion:106 Resp: 3247

Ion Ratio Lower Upper

106 100

91 69.4 163.0 244.4#



#70

Isopropylbenzene

Concen: 0.218 ug/l

RT: 13.076 min Scan# 1891

Delta R.T. 0.382 min

Lab File: VN087357.D

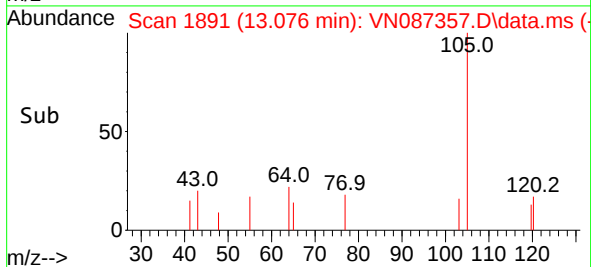
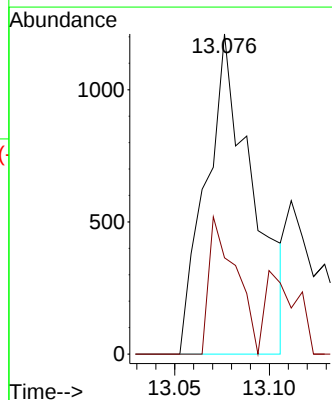
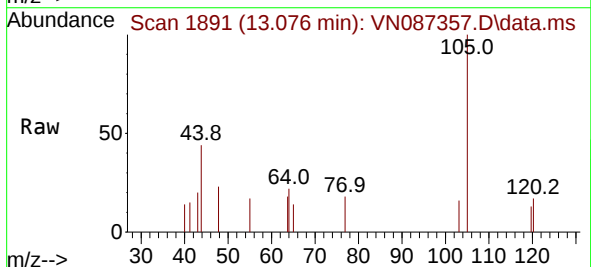
Acq: 18 Jul 2025 11:51

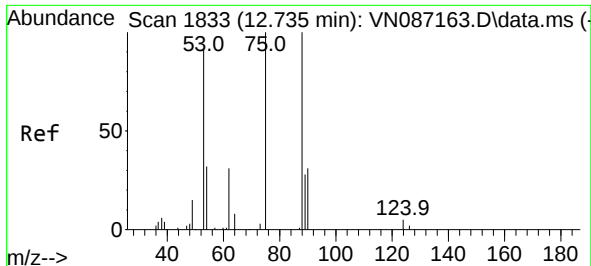
Tgt Ion:105 Resp: 2068

Ion Ratio Lower Upper

105 100

120 24.7 19.0 35.2

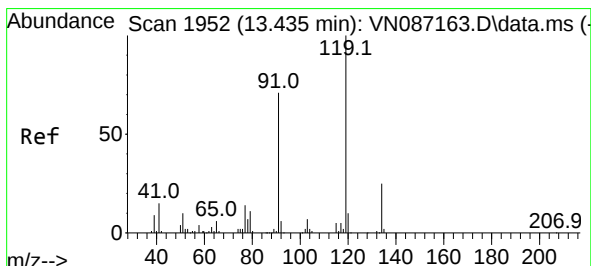
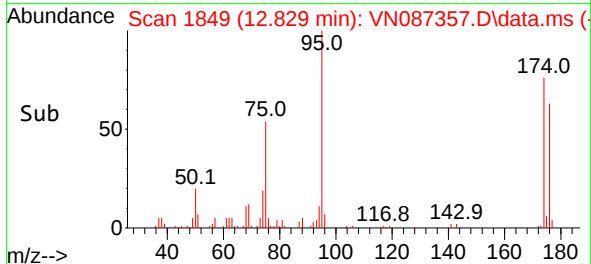
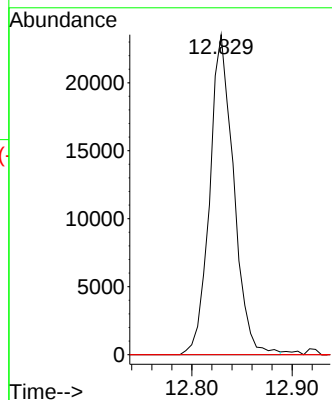
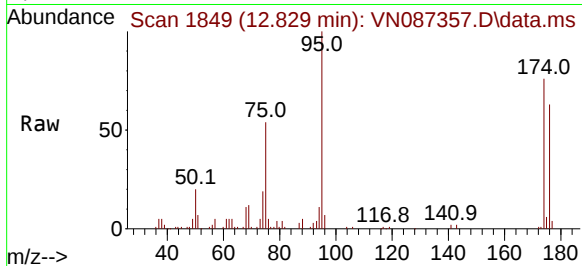




#77
t-1,4-Dichloro-2-butene
Concen: 29.977 ug/l
RT: 12.829 min Scan# 1833
Delta R.T. 0.094 min
Lab File: VN087357.D
Acq: 18 Jul 2025 11:51

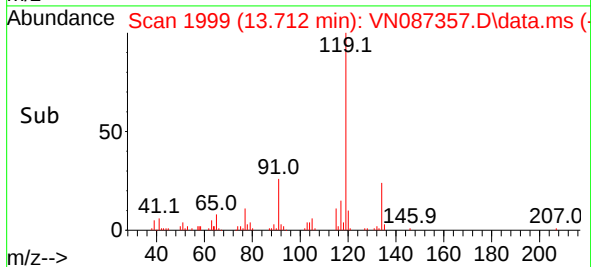
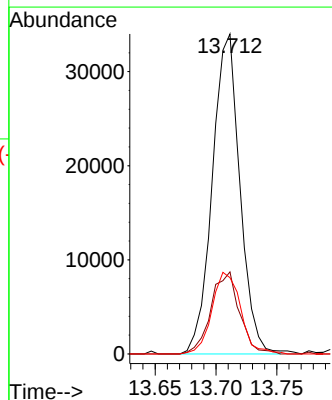
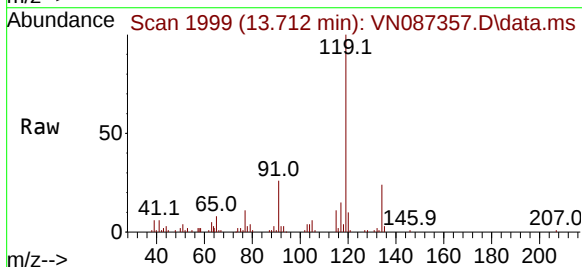
Instrument :
MSVOA_N
ClientSampleId :
001 Willets Pt Blvd (June)

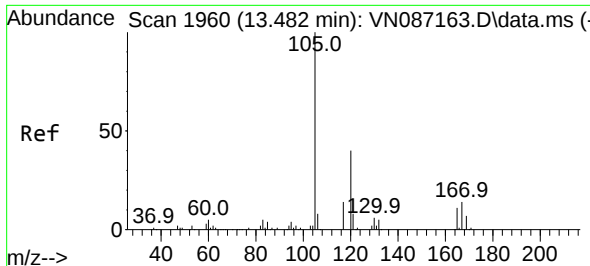
Tgt Ion: 75 Resp: 39082
Ion Ratio Lower Upper
75 100
53 0.0 45.9 137.6#
89 0.0 22.3 66.9#



#79
tert-butylbenzene
Concen: 8.280 ug/l
RT: 13.712 min Scan# 1999
Delta R.T. 0.276 min
Lab File: VN087357.D
Acq: 18 Jul 2025 11:51

Tgt Ion: 119 Resp: 53649
Ion Ratio Lower Upper
119 100
91 26.3 0.0 137.0
134 26.6 0.0 49.4

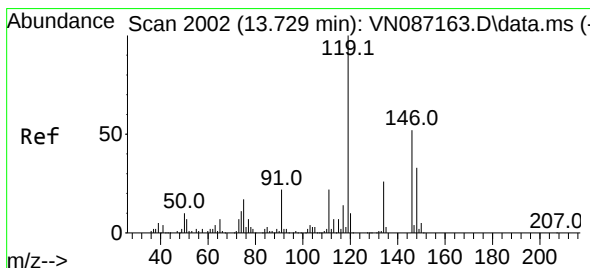
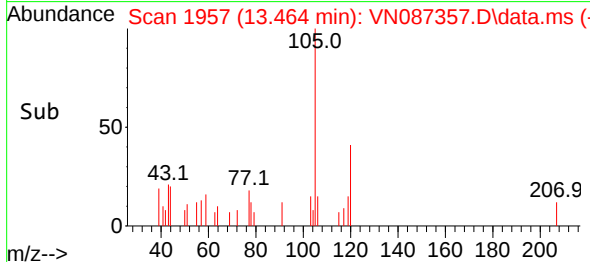
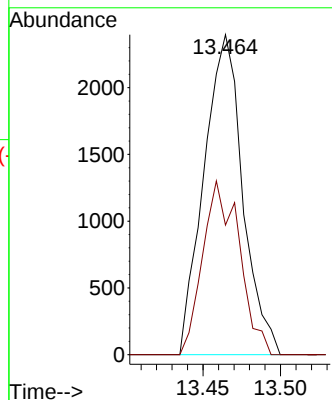
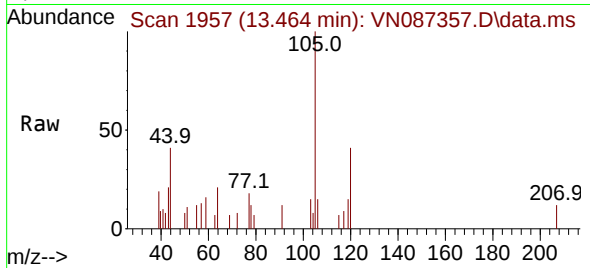




#80
1,2,4-Trimethylbenzene
Concen: 0.539 ug/l
RT: 13.464 min Scan# 1957
Delta R.T. -0.018 min
Lab File: VN087357.D
Acq: 18 Jul 2025 11:51

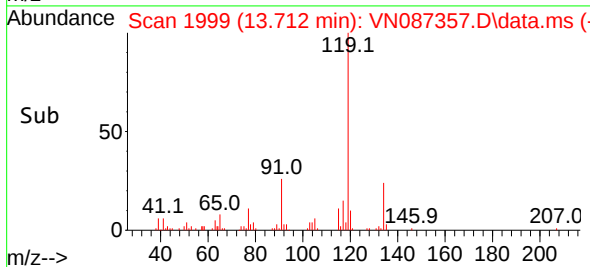
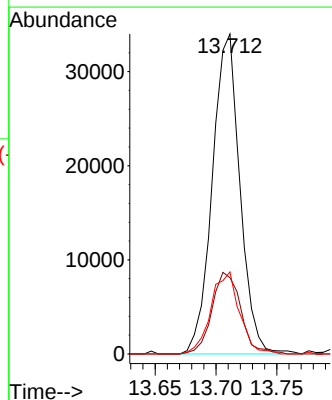
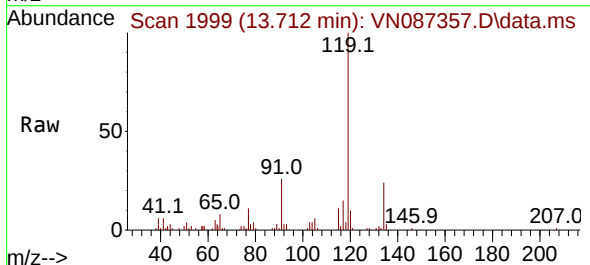
Instrument :
MSVOA_N
ClientSampleId :
001 Willets Pt Blvd (June)

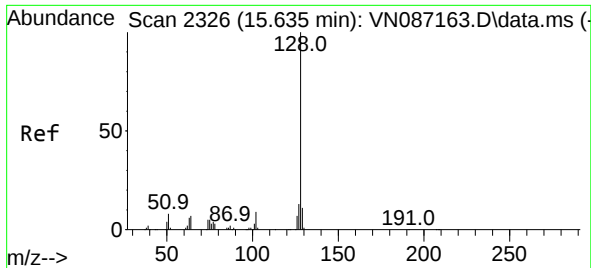
Tgt Ion:105 Resp: 4171
Ion Ratio Lower Upper
105 100
120 51.1 0.0 94.0



#82
p-Isopropyltoluene
Concen: 6.844 ug/l
RT: 13.712 min Scan# 1999
Delta R.T. -0.018 min
Lab File: VN087357.D
Acq: 18 Jul 2025 11:51

Tgt Ion:119 Resp: 53649
Ion Ratio Lower Upper
119 100
134 26.6 0.0 51.2
91 26.3 0.0 46.4





#91

Naphthalene

Concen: 0.839 ug/l

RT: 15.617 min Scan# 21

Delta R.T. -0.018 min

Lab File: VN087357.D

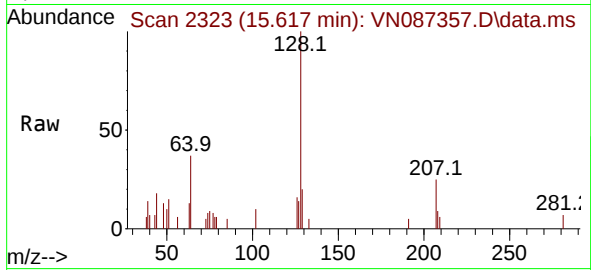
Acq: 18 Jul 2025 11:51

Instrument :

MSVOA_N

ClientSampleId :

001 Willets Pt Blvd (June)



Tgt Ion:	128	Resp:	7793
Ion	Ratio	Lower	Upper
128	100		
127	8.7	10.6	15.8#
129	10.2	8.8	13.2

