

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080625\
 Data File : VN087476.D
 Acq On : 06 Aug 2025 12:56
 Operator : JC\MD
 Sample : Q2769-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 001-WILLETS-PT-BLVD(AUG)

Quant Time: Aug 07 03:36:23 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)

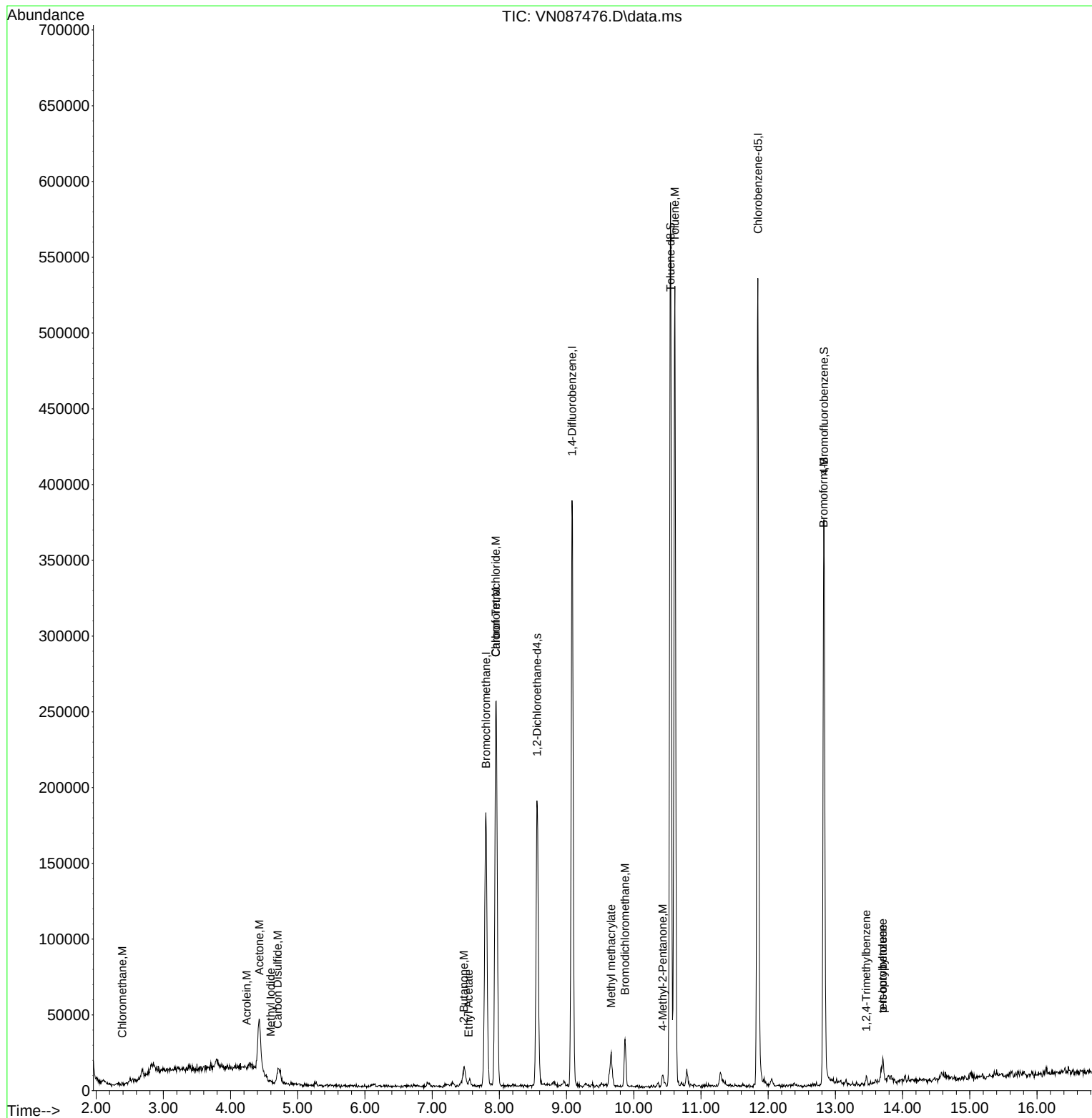
Internal Standards						
1) Bromochloromethane	7.800	128	56870	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	314501	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	279409	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	163186	31.110	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	103.700%
60) 4-Bromofluorobenzene	12.829	95	134587	27.990	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	93.300%
63) Toluene-d8	10.547	98	381038	29.638	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	98.800%
Target Compounds						
					Qvalue	
3) Chloromethane	2.389	50	1292	0.339	ug/l #	42
11) Methyl Iodide	4.600	142	857	0.349	ug/l #	39
13) Acrolein	4.242	56	720	0.820	ug/l	95
15) Acetone	4.430	58	13117	18.291	ug/l	89
16) Carbon Disulfide	4.700	76	3608	0.373	ug/l #	91
25) Chloroform	7.947	83	245380	31.445	ug/l	97
30) 2-Butanone	7.471	43	19671	5.203	ug/l	98
33) Carbon Tetrachloride	7.947	117	2563	0.472	ug/l #	57
41) Bromodichloromethane	9.871	83	20637	3.188	ug/l #	96
43) Ethyl Acetate	7.541	43	1695	0.232	ug/l	100
46) Methyl methacrylate	9.665	41	11542	1.975	ug/l	99
56) Bromoform	12.823	173	649	0.216	ug/l #	34
58) 4-Methyl-2-Pentanone	10.429	43	6901	0.960	ug/l	92
62) Toluene	10.612	91	377666	21.900	ug/l	98
79) tert-butylbenzene	13.706	119	7634	0.600	ug/l	58
80) 1,2,4-Trimethylbenzene	13.459	105	3527	0.234	ug/l	100
82) p-Isopropyltoluene	13.706	119	7634	0.496	ug/l	98

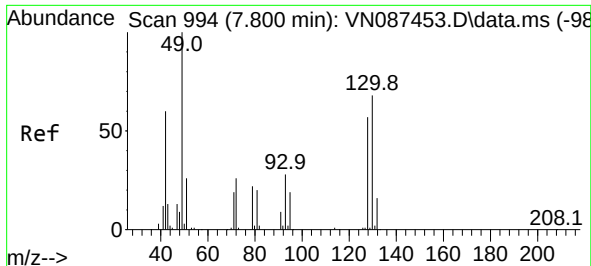
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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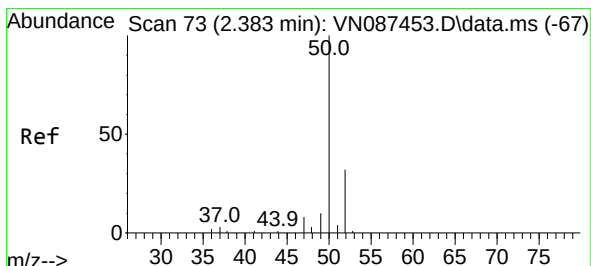
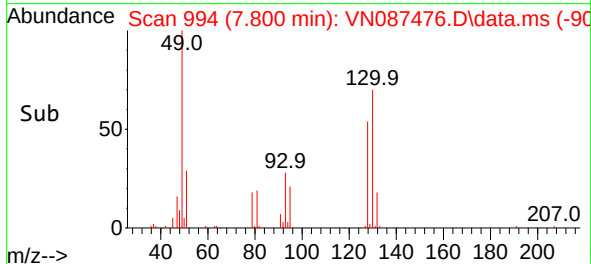
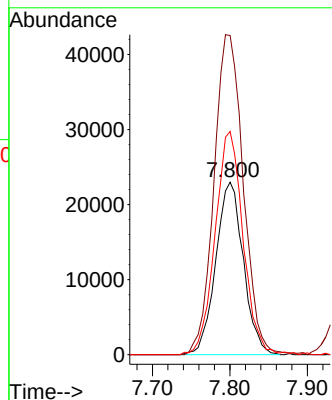
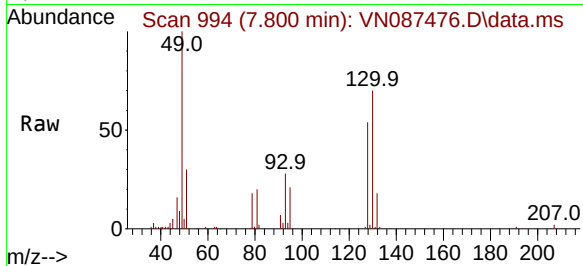




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.800 min Scan# 994
Delta R.T. 0.000 min
Lab File: VN087476.D
Acq: 06 Aug 2025 12:56

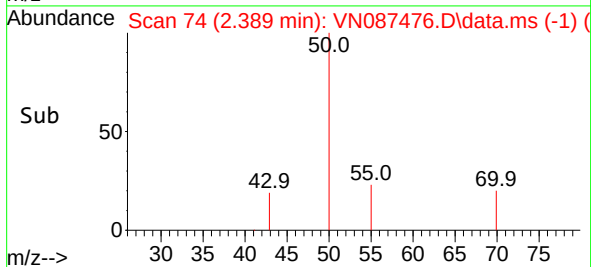
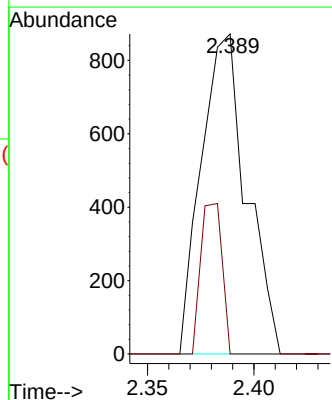
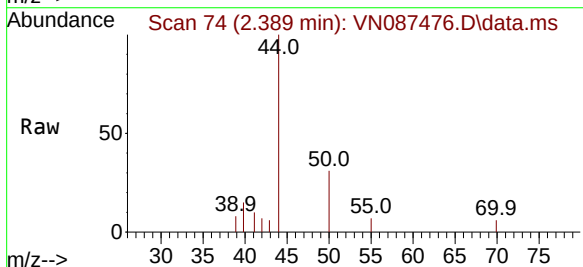
Instrument :
MSVOA_N
ClientSampleId :
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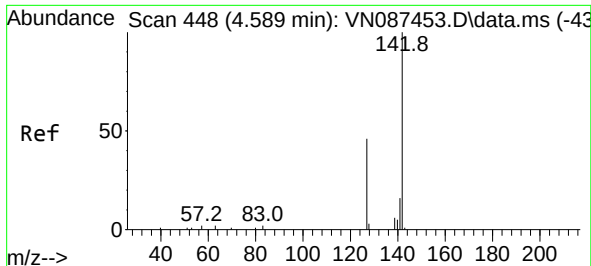
Tgt Ion:128 Resp: 56870
Ion Ratio Lower Upper
128 100
49 197.0 0.0 494.8
130 130.6 0.0 321.5



#3
Chloromethane
Concen: 0.339 ug/l
RT: 2.389 min Scan# 74
Delta R.T. 0.006 min
Lab File: VN087476.D
Acq: 06 Aug 2025 12:56

Tgt Ion: 50 Resp: 1292
Ion Ratio Lower Upper
50 100
52 0.0 25.8 38.6#

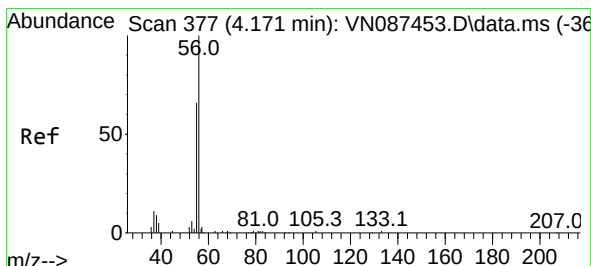
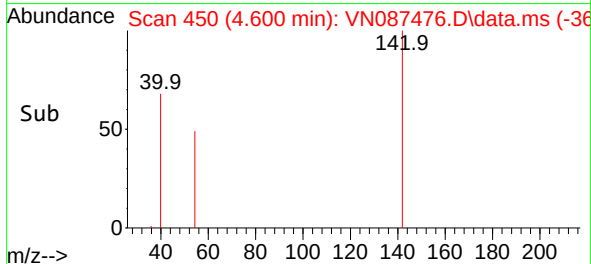
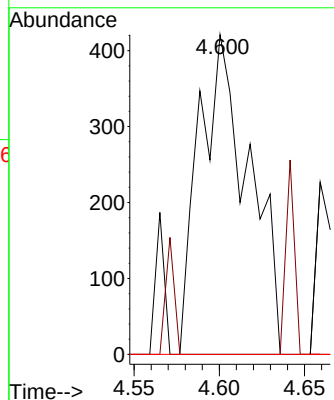
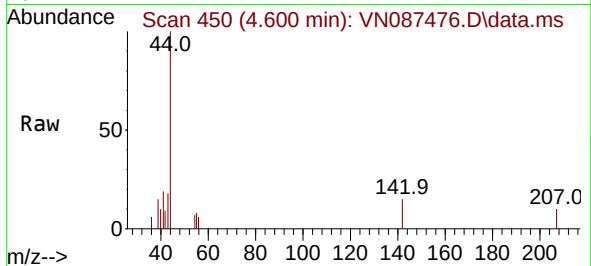




#11
Methyl Iodide
Concen: 0.349 ug/l
RT: 4.600 min Scan# 411
Delta R.T. 0.012 min
Lab File: VN087476.D
Acq: 06 Aug 2025 12:56

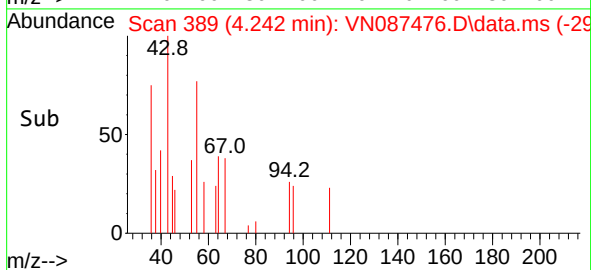
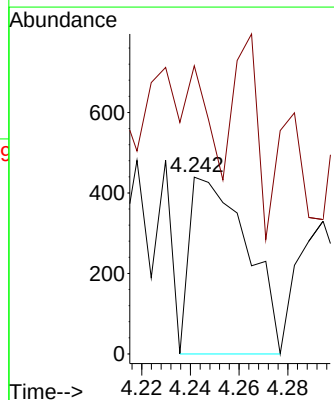
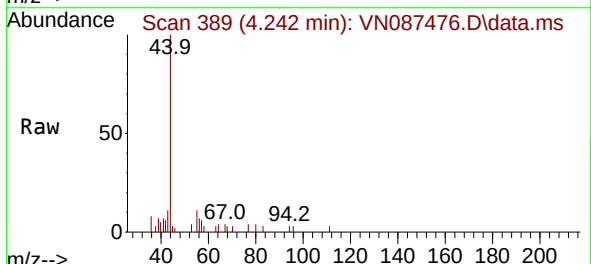
Instrument :
MSVOA_N
ClientSampleId :
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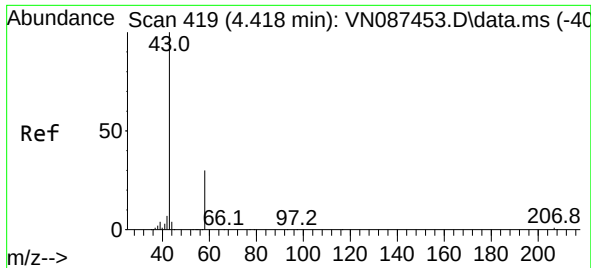
Tgt Ion:142 Resp: 857
Ion Ratio Lower Upper
142 100
127 0.0 22.9 68.7#
141 0.0 7.7 23.1#



#13
Acrolein
Concen: 0.820 ug/l
RT: 4.242 min Scan# 389
Delta R.T. 0.071 min
Lab File: VN087476.D
Acq: 06 Aug 2025 12:56

Tgt Ion: 56 Resp: 720
Ion Ratio Lower Upper
56 100
55 75.8 57.4 86.0

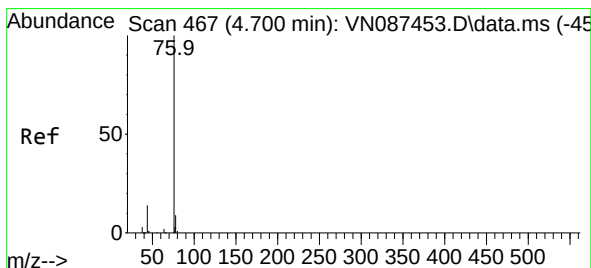
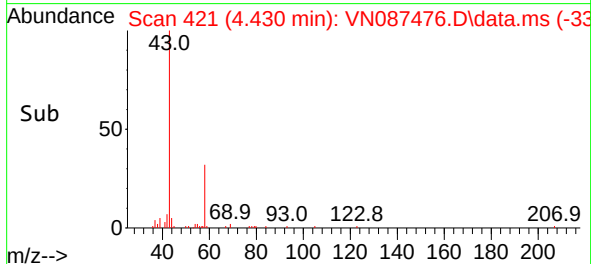
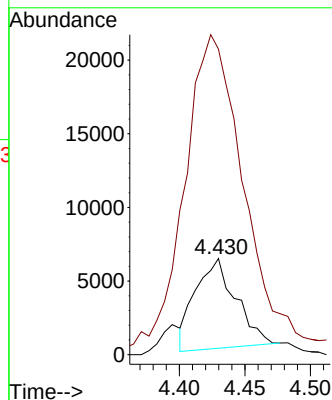
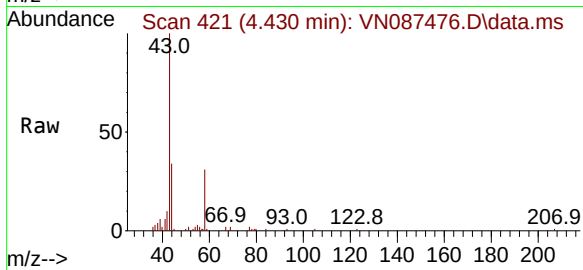




#15
Acetone
Concen: 18.291 ug/l
RT: 4.430 min Scan# 419
Delta R.T. 0.012 min
Lab File: VN087476.D
Acq: 06 Aug 2025 12:56

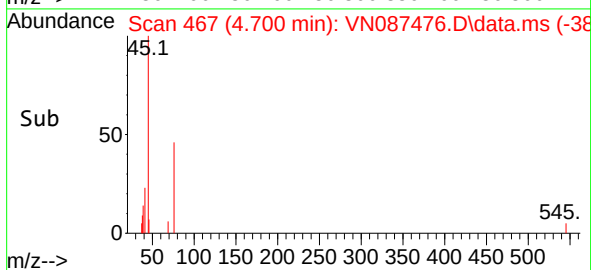
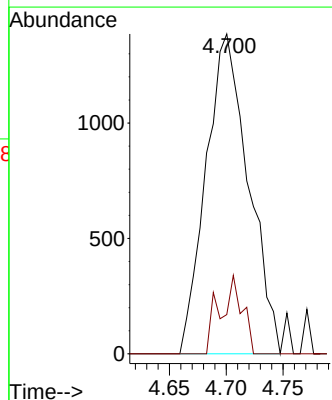
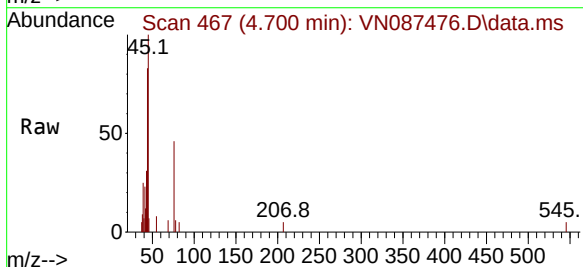
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(AUG)

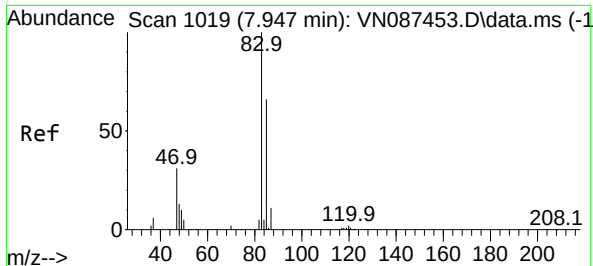
Tgt Ion: 58 Resp: 13117
Ion Ratio Lower Upper
58 100
43 312.9 268.9 403.3



#16
Carbon Disulfide
Concen: 0.373 ug/l
RT: 4.700 min Scan# 467
Delta R.T. -0.000 min
Lab File: VN087476.D
Acq: 06 Aug 2025 12:56

Tgt Ion: 76 Resp: 3608
Ion Ratio Lower Upper
76 100
78 12.3 7.1 10.7#

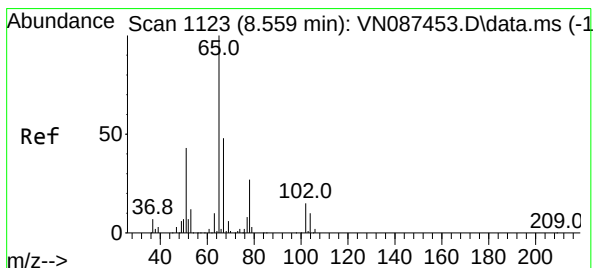
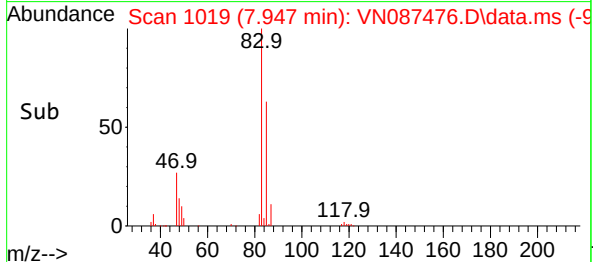
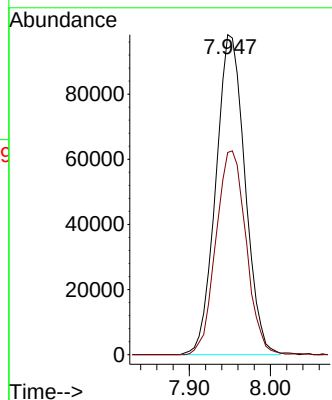
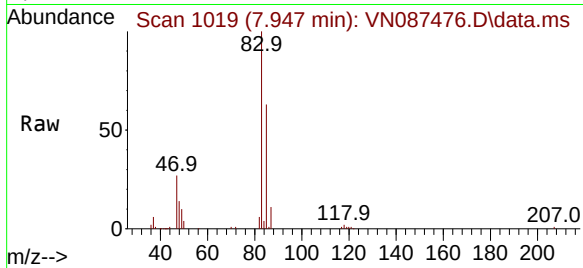




#25
Chloroform
Concen: 31.445 ug/l
RT: 7.947 min Scan# 1019
Delta R.T. -0.000 min
Lab File: VN087476.D
Acq: 06 Aug 2025 12:56

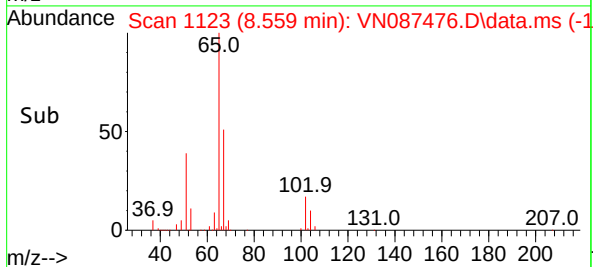
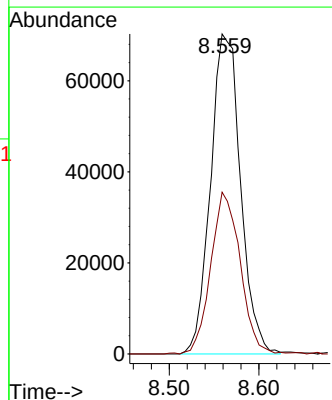
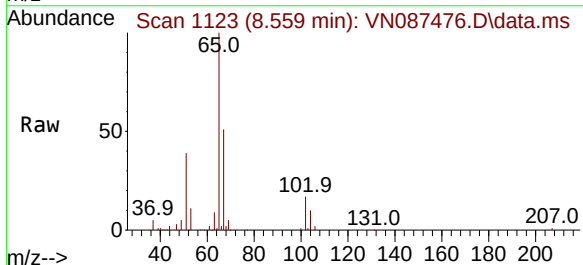
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(AUG)

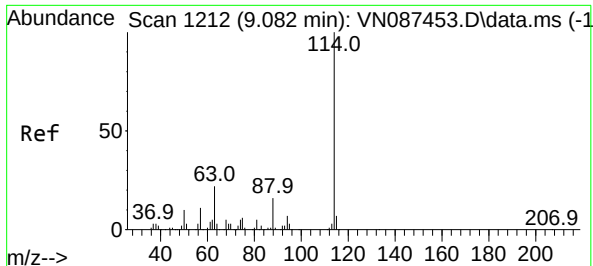
Tgt Ion: 83 Resp: 245380
Ion Ratio Lower Upper
83 100
85 63.2 52.6 78.8



#27
1,2-Dichloroethane-d4
Concen: 31.110 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. -0.000 min
Lab File: VN087476.D
Acq: 06 Aug 2025 12:56

Tgt Ion: 65 Resp: 163186
Ion Ratio Lower Upper
65 100
67 49.4 40.8 61.2





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.082 min Scan# 114

Delta R.T. -0.000 min

Lab File: VN087476.D

Acq: 06 Aug 2025 12:56

Instrument :

MSVOA_N

ClientSampleId :

001-WILLETS-PT-BLVD(AUG)

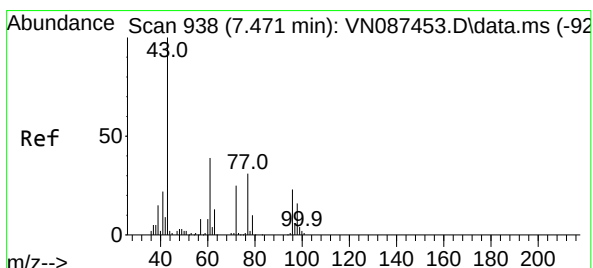
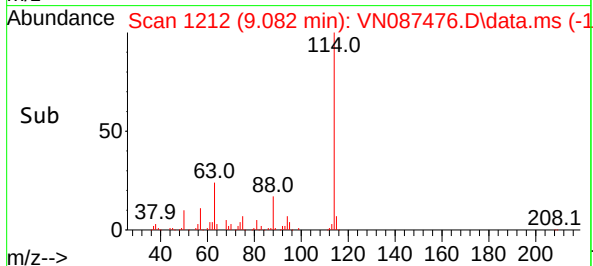
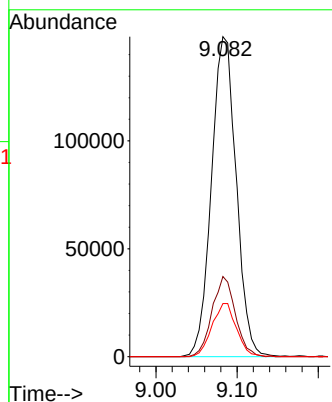
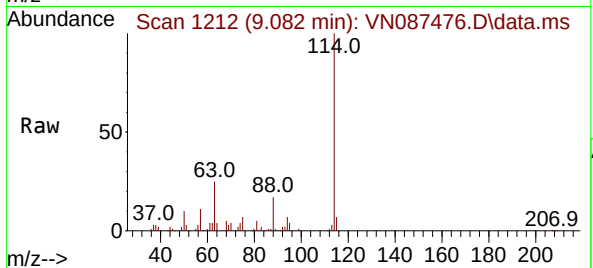
Tgt Ion:114 Resp: 314501

Ion Ratio Lower Upper

114 100

63 23.6 18.9 28.3

88 16.4 13.1 19.7



#30

2-Butanone

Concen: 5.203 ug/l

RT: 7.471 min Scan# 938

Delta R.T. -0.000 min

Lab File: VN087476.D

Acq: 06 Aug 2025 12:56

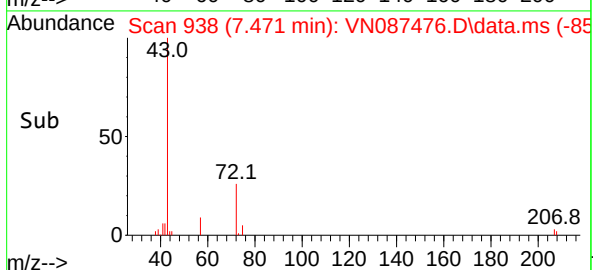
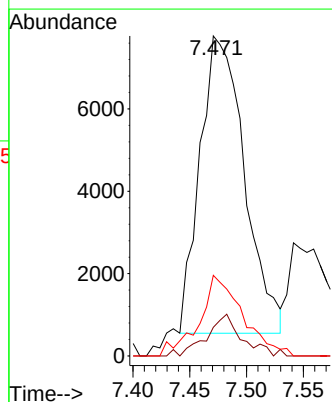
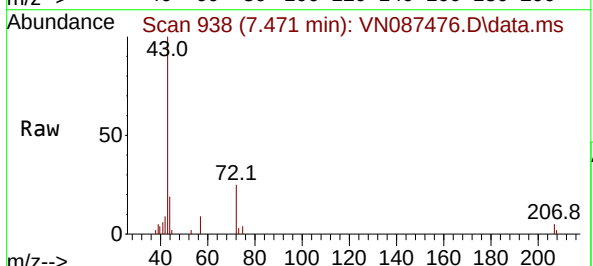
Tgt Ion: 43 Resp: 19671

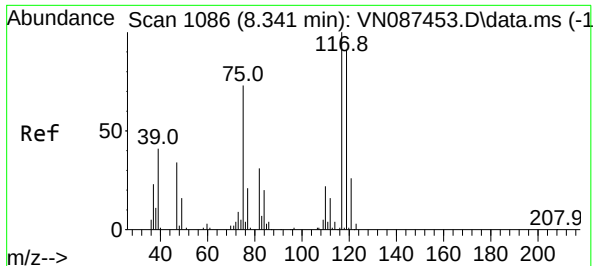
Ion Ratio Lower Upper

43 100

57 9.7 6.6 9.8

72 25.4 19.7 29.5

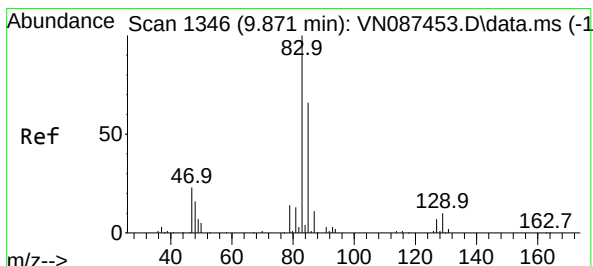
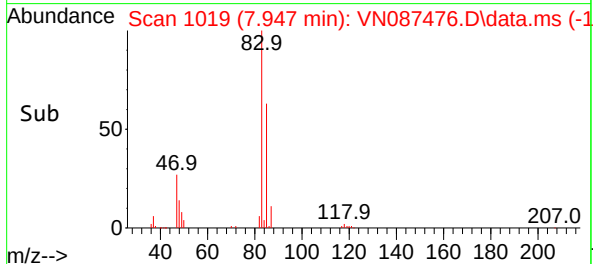
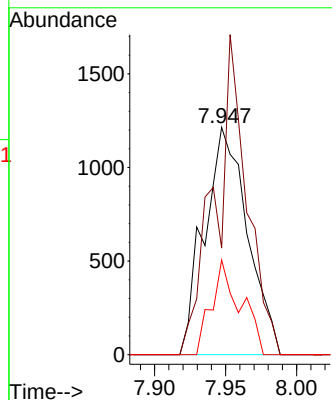
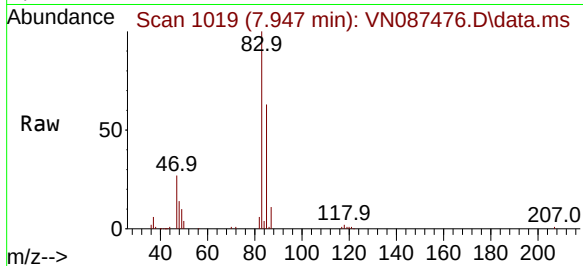




#33
Carbon Tetrachloride
Concen: 0.472 ug/l
RT: 7.947 min Scan# 1019
Delta R.T. -0.394 min
Lab File: VN087476.D
Acq: 06 Aug 2025 12:56

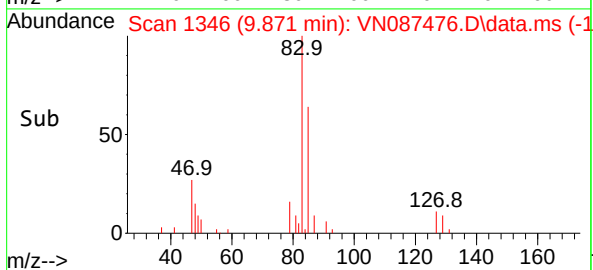
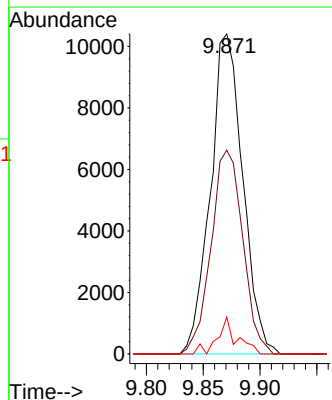
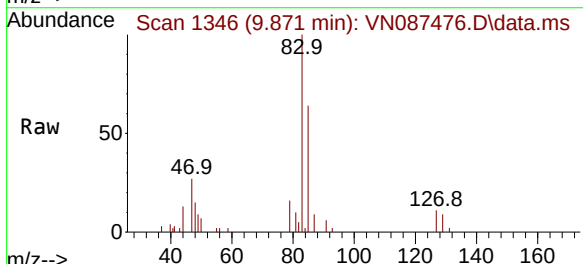
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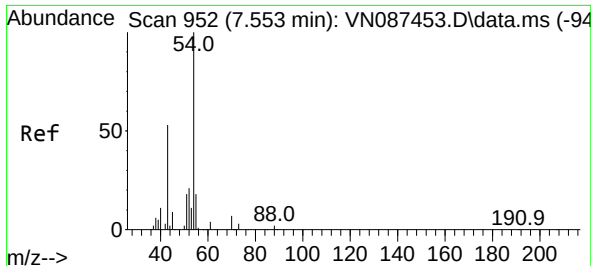
Tgt Ion:117 Resp: 2563
Ion Ratio Lower Upper
117 100
119 46.9 73.4 110.0#
121 41.7 21.1 31.7#



#41
Bromodichloromethane
Concen: 3.188 ug/l
RT: 9.871 min Scan# 1346
Delta R.T. -0.000 min
Lab File: VN087476.D
Acq: 06 Aug 2025 12:56

Tgt Ion: 83 Resp: 20637
Ion Ratio Lower Upper
83 100
85 63.7 52.9 79.3
127 11.5 5.8 8.6#

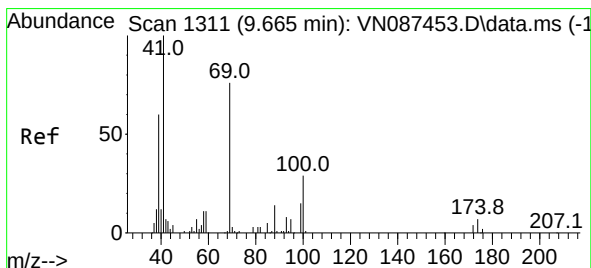
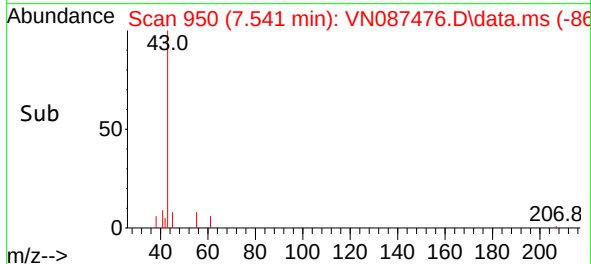
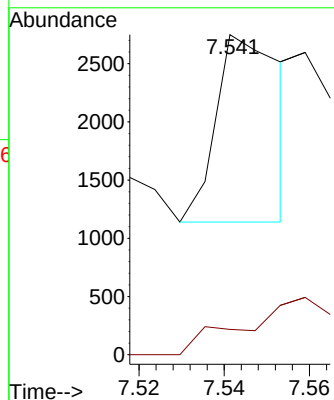
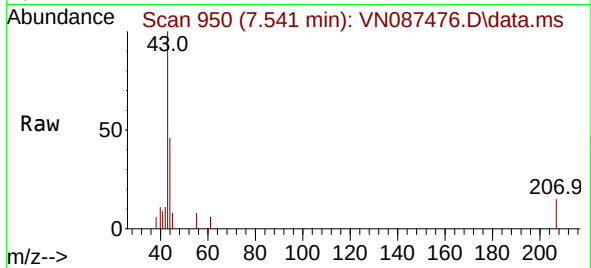




#43
Ethyl Acetate
Concen: 0.232 ug/l
RT: 7.541 min Scan# 91
Delta R.T. -0.012 min
Lab File: VN087476.D
Acq: 06 Aug 2025 12:56

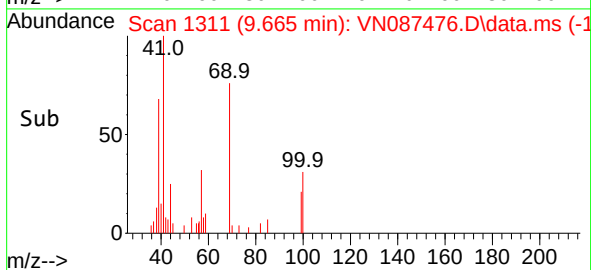
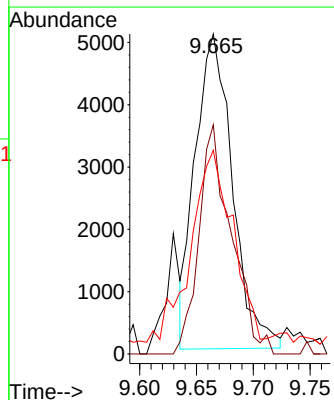
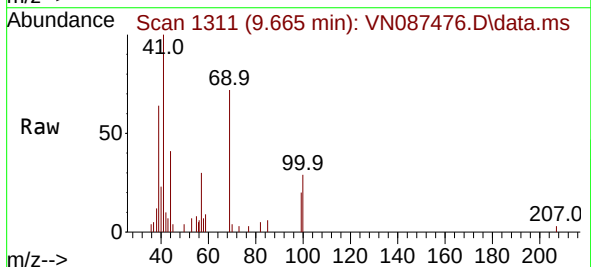
Instrument :
MSVOA_N
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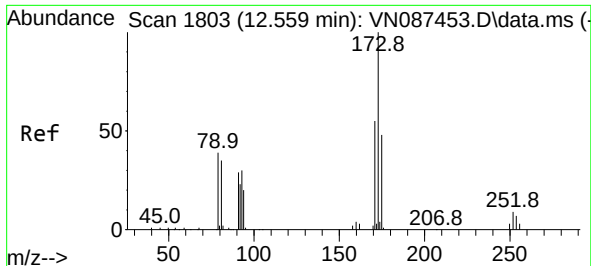
Tgt Ion: 43 Resp: 1695
Ion Ratio Lower Upper
43 100
45 13.8 11.1 16.7



#46
Methyl methacrylate
Concen: 1.975 ug/l
RT: 9.665 min Scan# 1311
Delta R.T. -0.000 min
Lab File: VN087476.D
Acq: 06 Aug 2025 12:56

Tgt Ion: 41 Resp: 11542
Ion Ratio Lower Upper
41 100
69 75.3 37.1 111.5
39 60.2 30.7 92.1

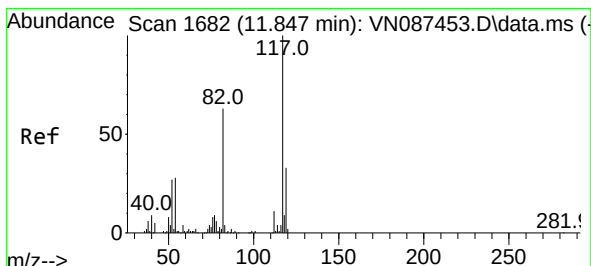
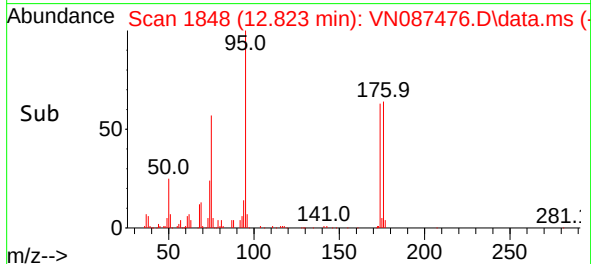
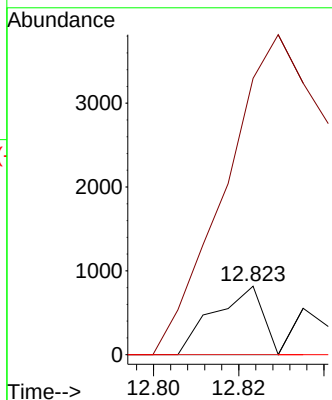
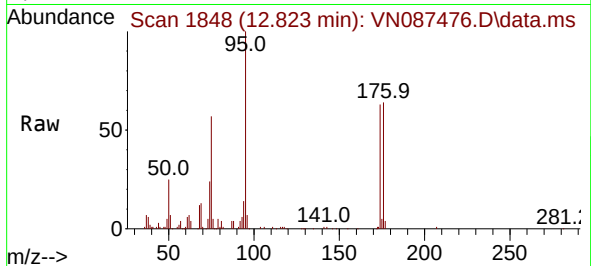




#56
Bromoform
Concen: 0.216 ug/l
RT: 12.823 min Scan# 1848
Delta R.T. 0.265 min
Lab File: VN087476.D
Acq: 06 Aug 2025 12:56

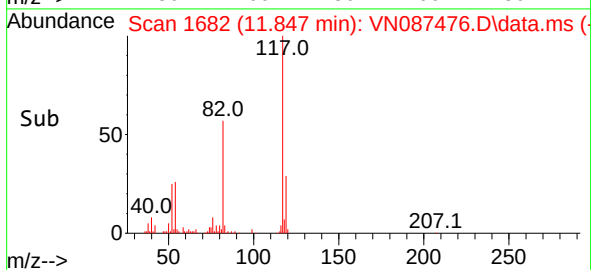
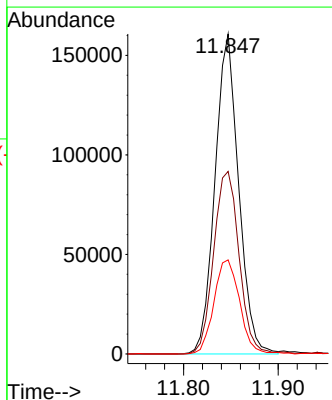
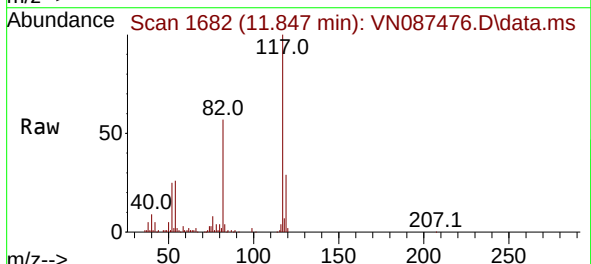
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(AUG)

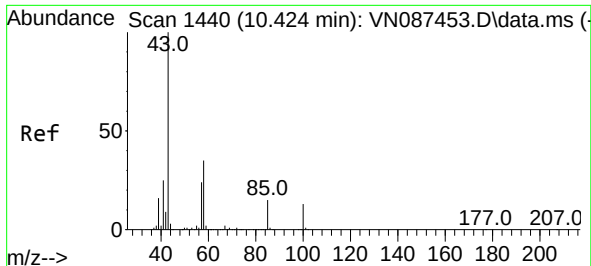
Tgt Ion:173 Resp: 649
Ion Ratio Lower Upper
173 100
175 0.0 38.8 58.2#
254 0.0 3.9 5.9#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.847 min Scan# 1682
Delta R.T. -0.000 min
Lab File: VN087476.D
Acq: 06 Aug 2025 12:56

Tgt Ion:117 Resp: 279409
Ion Ratio Lower Upper
117 100
82 61.1 49.2 73.8
119 31.7 25.7 38.5

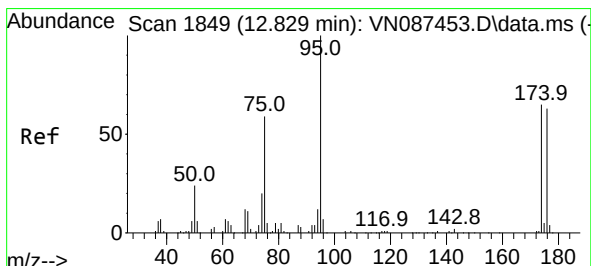
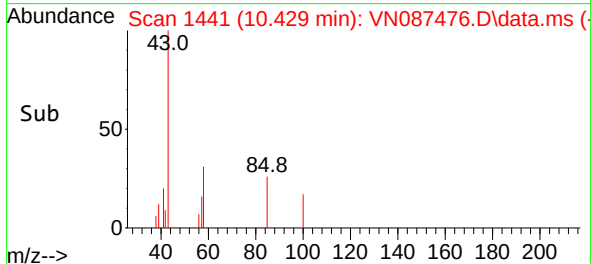
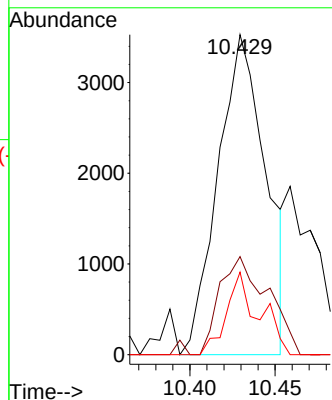
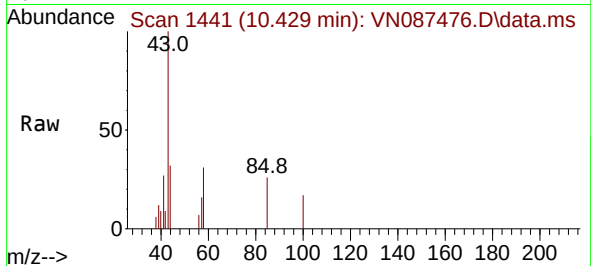




#58
4-Methyl-2-Pentanone
Concen: 0.960 ug/l
RT: 10.429 min Scan# 1440
Delta R.T. 0.006 min
Lab File: VN087476.D
Acq: 06 Aug 2025 12:56

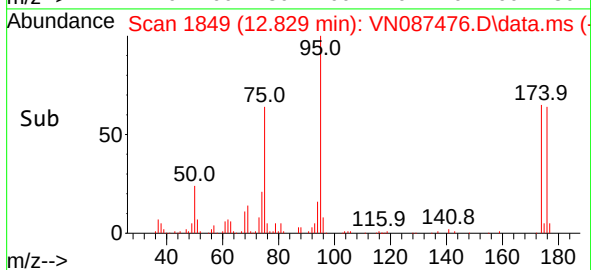
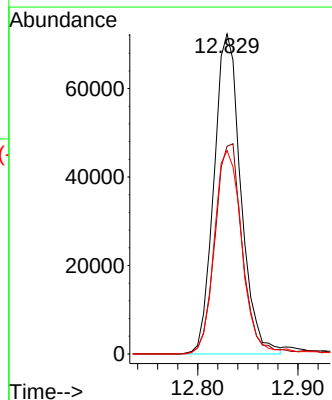
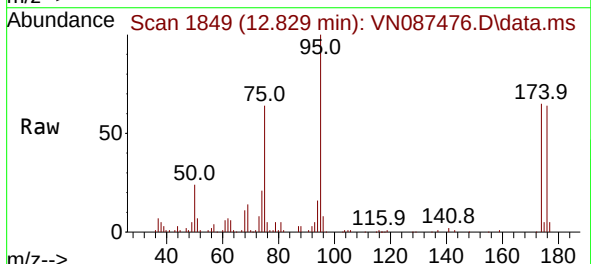
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(AUG)

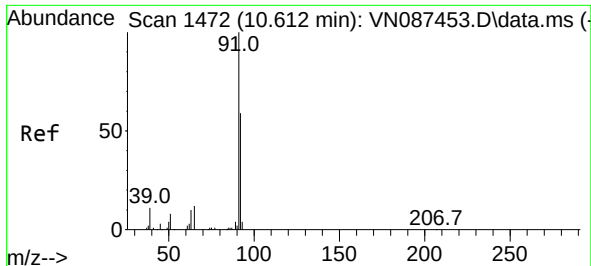
Tgt Ion:	43	Resp:	6901
Ion	Ratio	Lower	Upper
43	100		
58	30.7	29.0	43.6
85	13.7	12.7	19.1



#60
4-Bromofluorobenzene
Concen: 27.990 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.000 min
Lab File: VN087476.D
Acq: 06 Aug 2025 12:56

Tgt Ion:	95	Resp:	134587
Ion	Ratio	Lower	Upper
95	100		
174	66.1	52.3	78.5
176	65.0	49.8	74.8

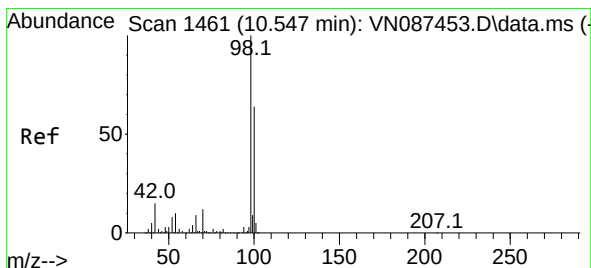
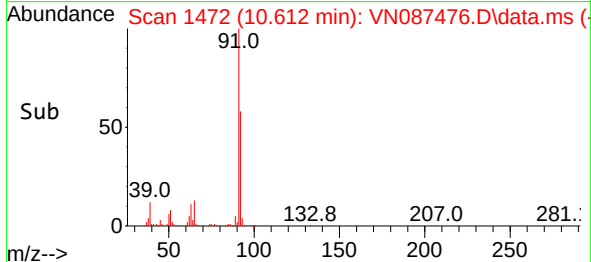
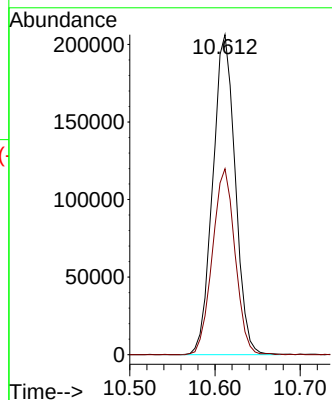
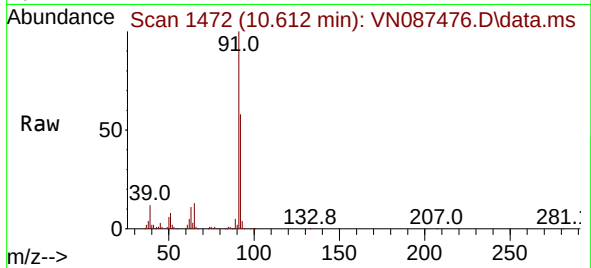




#62
Toluene
Concen: 21.900 ug/l
RT: 10.612 min Scan# 1472
Delta R.T. -0.000 min
Lab File: VN087476.D
Acq: 06 Aug 2025 12:56

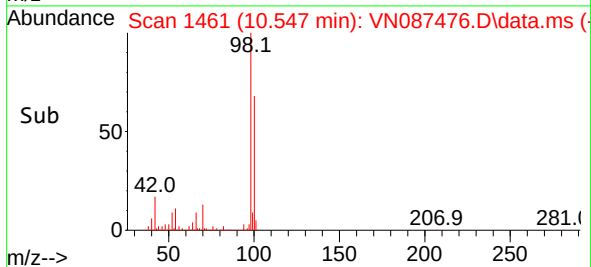
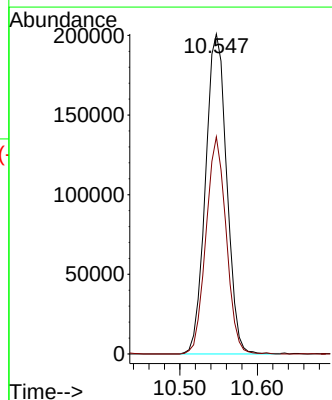
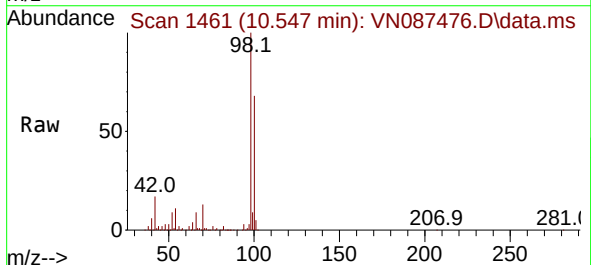
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(AUG)

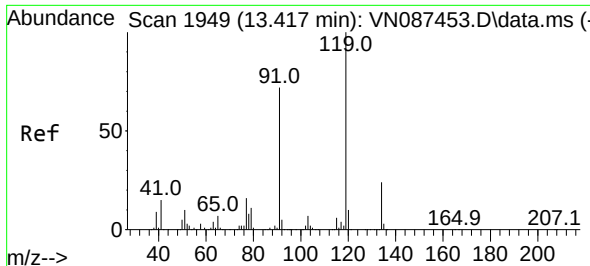
Tgt Ion: 91 Resp: 377666
Ion Ratio Lower Upper
91 100
92 58.5 45.8 68.6



#63
Toluene-d8
Concen: 29.638 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN087476.D
Acq: 06 Aug 2025 12:56

Tgt Ion: 98 Resp: 381038
Ion Ratio Lower Upper
98 100
100 64.6 50.5 75.7

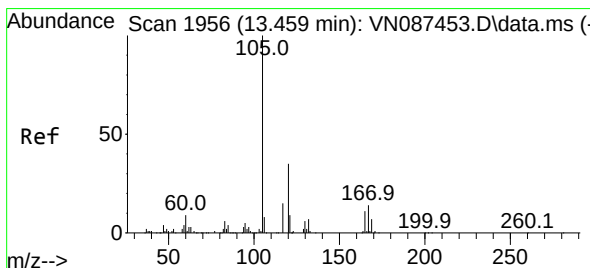
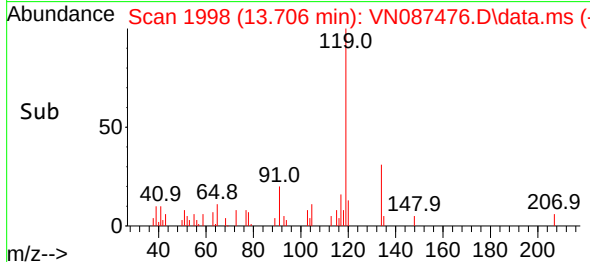
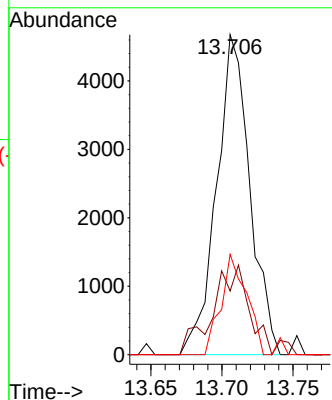
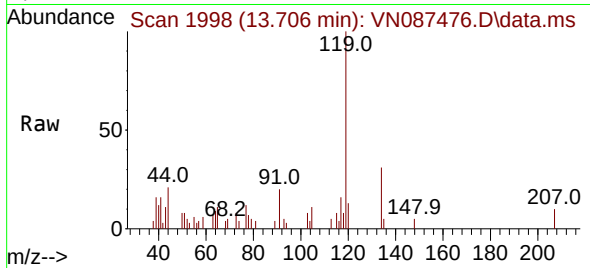




#79
tert-butylbenzene
Concen: 0.600 ug/l
RT: 13.706 min Scan# 1949
Delta R.T. 0.288 min
Lab File: VN087476.D
Acq: 06 Aug 2025 12:56

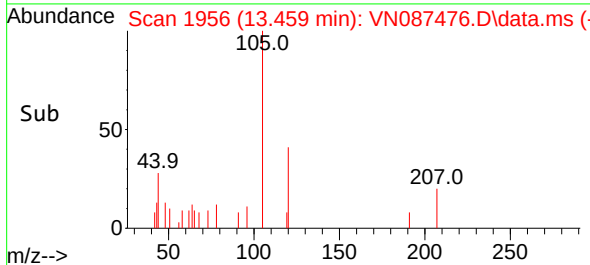
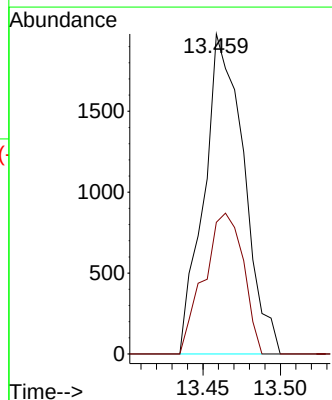
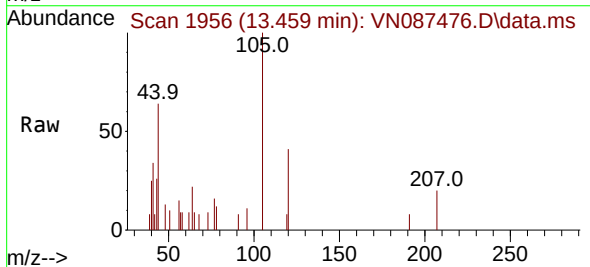
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(AUG)

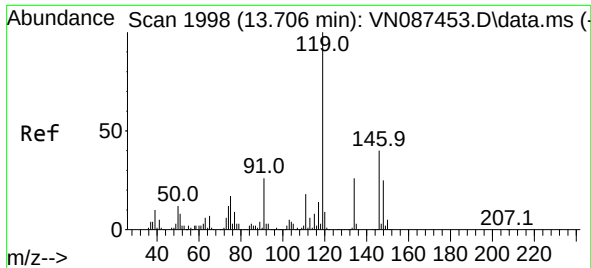
Tgt Ion:119 Resp: 7634
Ion Ratio Lower Upper
119 100
91 25.6 0.0 141.6
134 24.1 0.0 45.6



#80
1,2,4-Trimethylbenzene
Concen: 0.234 ug/l
RT: 13.459 min Scan# 1956
Delta R.T. -0.000 min
Lab File: VN087476.D
Acq: 06 Aug 2025 12:56

Tgt Ion:105 Resp: 3527
Ion Ratio Lower Upper
105 100
120 43.6 0.0 87.2





#82
 p-Isopropyltoluene
 Concen: 0.496 ug/l
 RT: 13.706 min Scan# 1998
 Delta R.T. -0.000 min
 Lab File: VN087476.D
 Acq: 06 Aug 2025 12:56

Instrument :
 MSVOA_N
 ClientSampleId :
 001-WILLETS-PT-BLVD(AUG)

Tgt Ion:	119	Resp:	7634
Ion	Ratio	Lower	Upper
119	100		
134	24.1	0.0	51.4
91	25.6	0.0	52.0

