

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100824\
 Data File : VN084348.D
 Acq On : 08 Oct 2024 14:53
 Operator : JC\MD
 Sample : P4334-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

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

Quant Time: Oct 09 02:30:43 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100824W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Oct 09 02:21:08 2024
 Response via : Initial Calibration

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

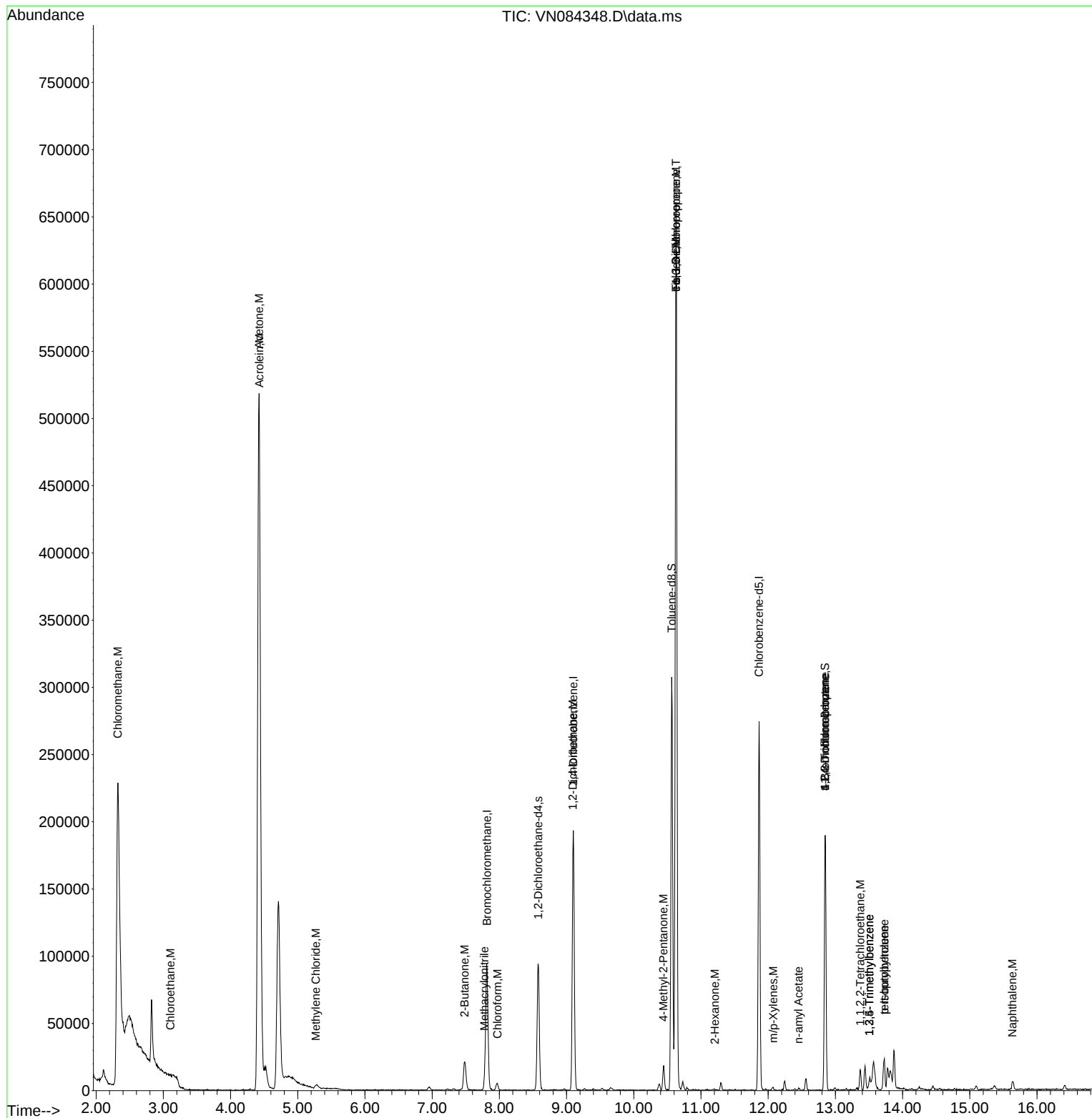
Internal Standards						
1) Bromochloromethane	7.818	128	31390	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	165437	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	154322	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.576	65	79279	31.371	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	104.567%
60) 4-Bromofluorobenzene	12.847	95	69842	27.422	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	91.400%
63) Toluene-d8	10.565	98	210498	29.444	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	98.133%
Target Compounds						
					Qvalue	
3) Chloromethane	2.324	50	9357	4.290	ug/l #	42
6) Chloroethane	3.106	64	456	0.325	ug/l #	40
13) Acrolein	4.430	56	134	0.295	ug/l #	1
15) Acetone	4.424	58	309723	986.299	ug/l	97
18) Methylene Chloride	5.271	84	843	0.383	ug/l #	29
25) Chloroform	7.971	83	5224	1.320	ug/l	98
30) 2-Butanone	7.482	43	36140	24.994	ug/l	99
35) Methacrylonitrile	7.777	41	1079	0.699	ug/l #	43
36) 1,2-Dichloroethane	9.094	62	5898	2.081	ug/l #	75
47) n-amyl Acetate	12.453	43	1098	0.264	ug/l #	49
48) t-1,3-Dichloropropene	10.629	75	3539	1.113	ug/l #	1
49) cis-1,3-Dichloropropene	10.629	75	3539	1.062	ug/l #	1
58) 4-Methyl-2-Pentanone	10.441	43	12613	4.387	ug/l	97
59) 2-Hexanone	11.206	43	1010	0.473	ug/l #	47
62) Toluene	10.629	91	495692	54.868	ug/l	99
67) m/p-Xylenes	12.076	106	921	0.247	ug/l #	69
71) 1,1,2,2-Tetrachloroethane	13.370	83	1178	0.416	ug/l #	54
72) 1,2,3-Trichloropropane	12.847	75	35762	14.732	ug/l	1
76) 1,3,5-Trimethylbenzene	13.506	105	2122	0.275	ug/l	58
77) t-1,4-Dichloro-2-butene	12.847	75	35762	34.476	ug/l #	12
79) tert-butylbenzene	13.729	119	10396	1.580	ug/l	59
80) 1,2,4-Trimethylbenzene	13.506	105	2122	0.271	ug/l	61
82) p-Isopropyltoluene	13.729	119	10396	1.363	ug/l	98
91) Naphthalene	15.635	128	4046	0.576	ug/l #	92

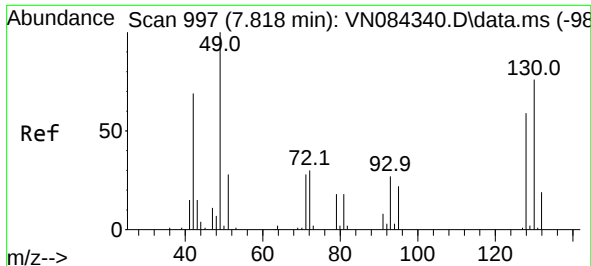
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :
001-WILLETS-PT-BLVD(SEP)

Quant Time: Oct 09 02:30:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100824W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Oct 09 02:21:08 2024
Response via : Initial Calibration

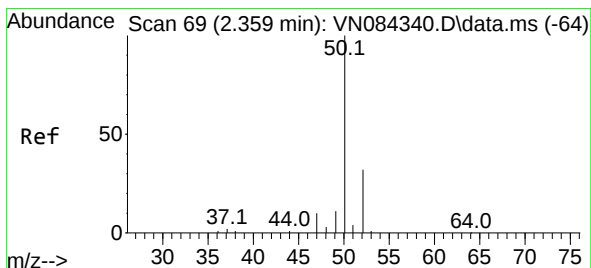
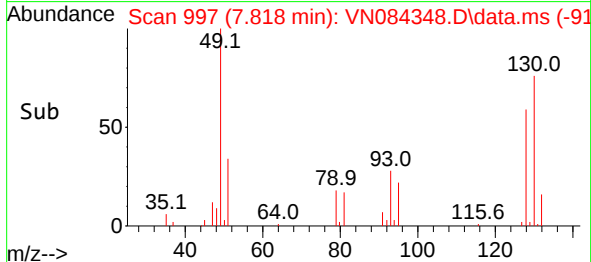
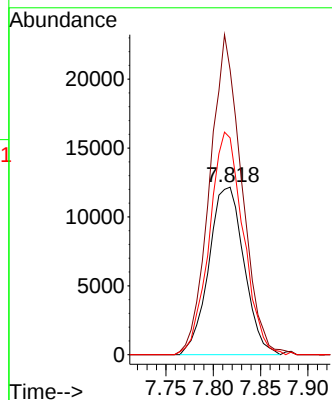
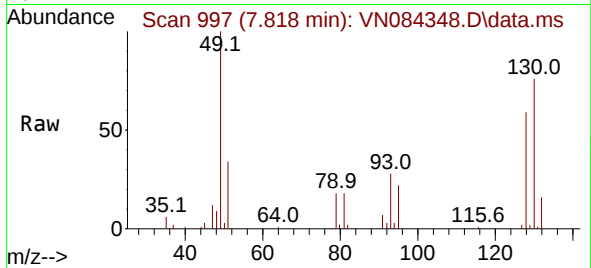




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN084348.D
Acq: 08 Oct 2024 14:53

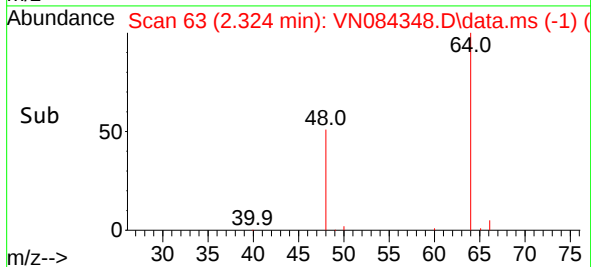
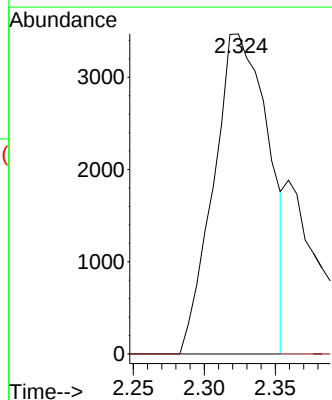
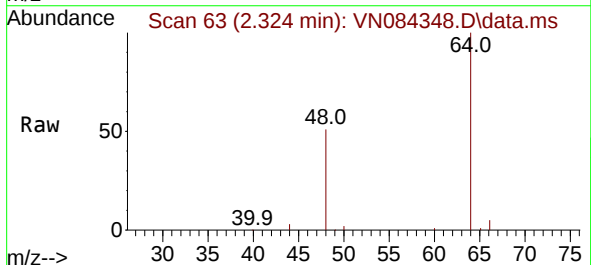
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(SEP)

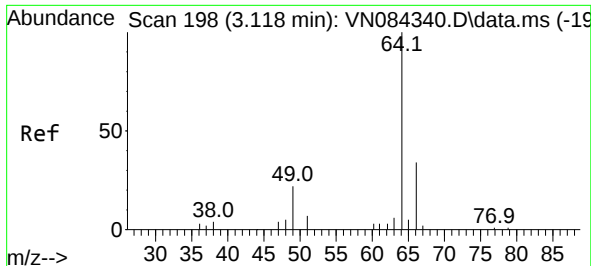
Tgt Ion:128 Resp: 31390
Ion Ratio Lower Upper
128 100
49 173.9 0.0 430.0
130 128.3 0.0 329.8



#3
Chloromethane
Concen: 4.290 ug/l
RT: 2.324 min Scan# 63
Delta R.T. -0.035 min
Lab File: VN084348.D
Acq: 08 Oct 2024 14:53

Tgt Ion: 50 Resp: 9357
Ion Ratio Lower Upper
50 100
52 0.0 25.8 38.6#

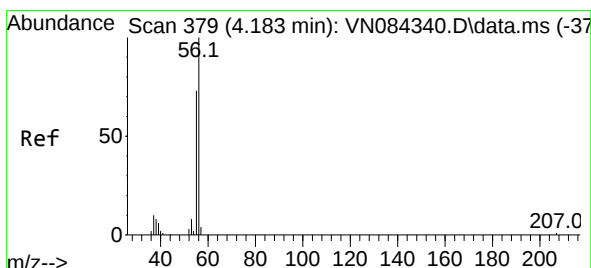
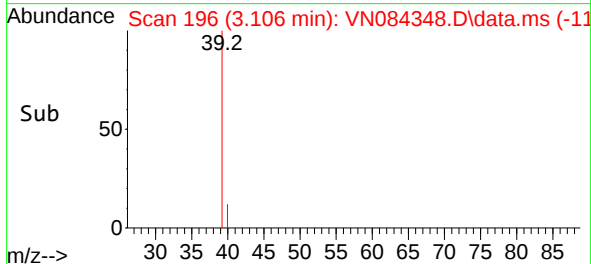
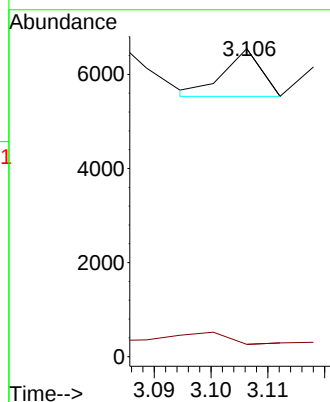
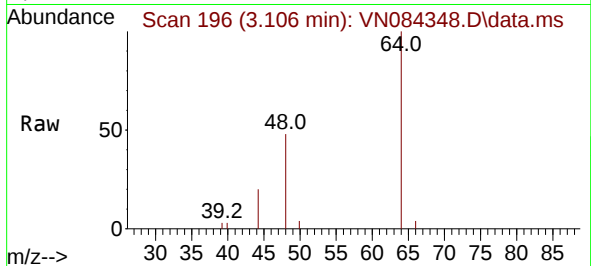




#6
Chloroethane
Concen: 0.325 ug/l
RT: 3.106 min Scan# 196
Delta R.T. -0.012 min
Lab File: VN084348.D
Acq: 08 Oct 2024 14:53

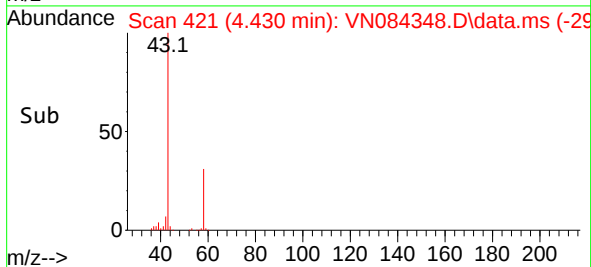
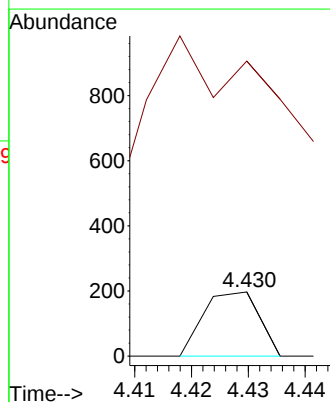
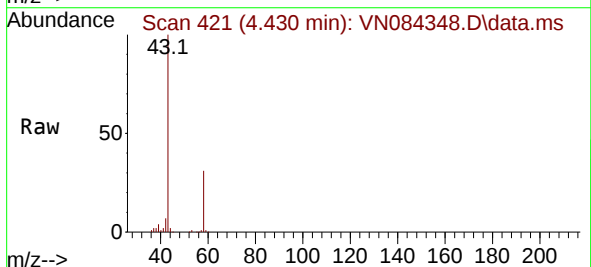
Instrument :
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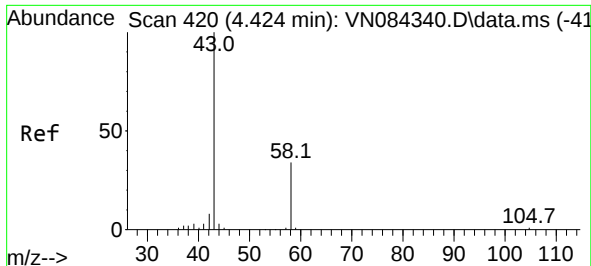
Tgt Ion: 64 Resp: 456
Ion Ratio Lower Upper
64 100
66 0.0 27.7 41.5#



#13
Acrolein
Concen: 0.295 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.247 min
Lab File: VN084348.D
Acq: 08 Oct 2024 14:53

Tgt Ion: 56 Resp: 134
Ion Ratio Lower Upper
56 100
55 348.5 56.4 84.6#

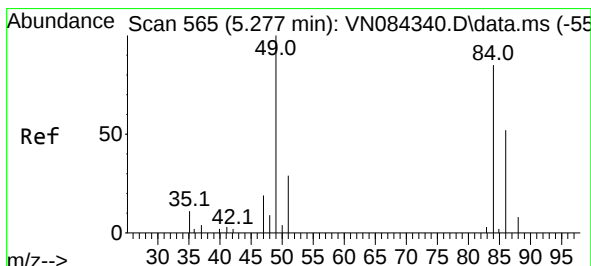
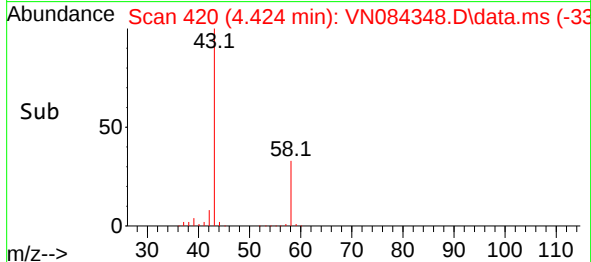
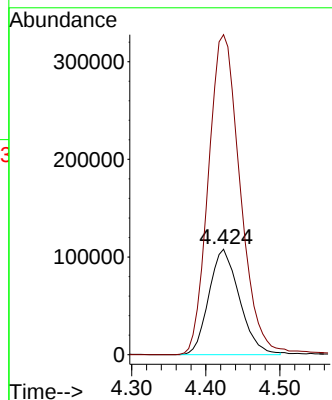
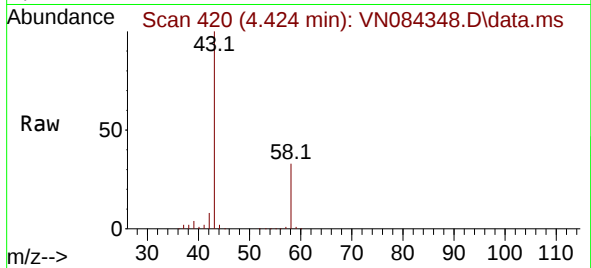




#15
Acetone
Concen: 986.299 ug/l
RT: 4.424 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN084348.D
Acq: 08 Oct 2024 14:53

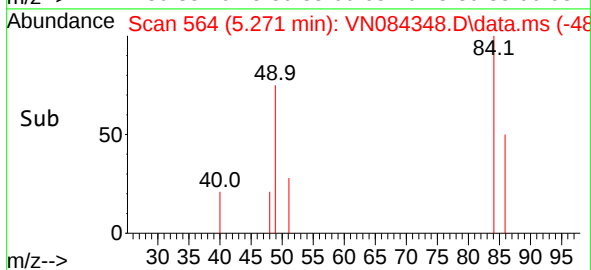
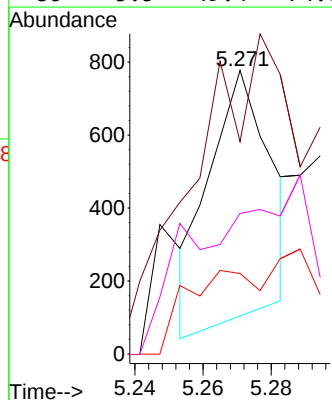
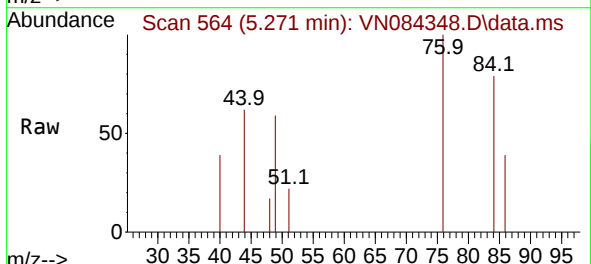
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(SEP)

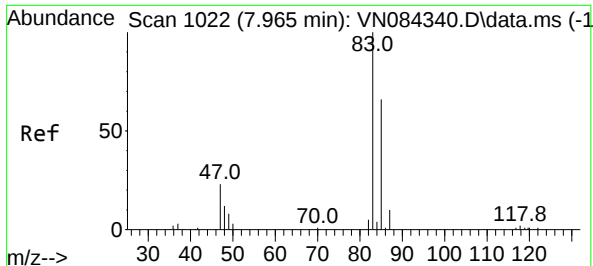
Tgt Ion: 58 Resp: 309723
Ion Ratio Lower Upper
58 100
43 303.1 237.5 356.3



#18
Methylene Chloride
Concen: 0.383 ug/l
RT: 5.271 min Scan# 564
Delta R.T. -0.006 min
Lab File: VN084348.D
Acq: 08 Oct 2024 14:53

Tgt Ion: 84 Resp: 843
Ion Ratio Lower Upper
84 100
49 34.0 94.6 142.0#
51 6.8 27.3 40.9#
86 5.5 49.4 74.0#





#25

Chloroform

Concen: 1.320 ug/l

RT: 7.971 min Scan# 1102

Delta R.T. 0.006 min

Lab File: VN084348.D

Acq: 08 Oct 2024 14:53

Instrument :

MSVOA_N

ClientSampleId :

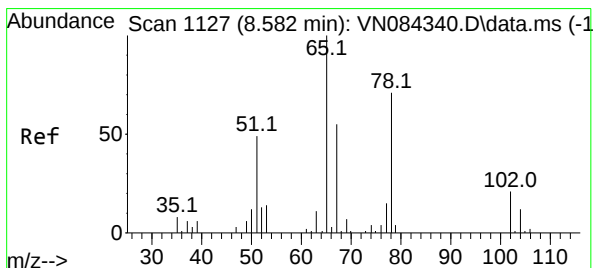
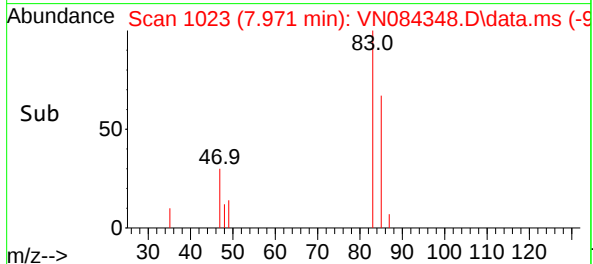
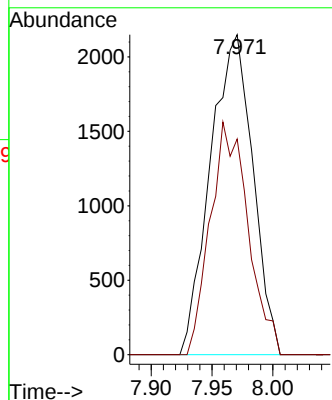
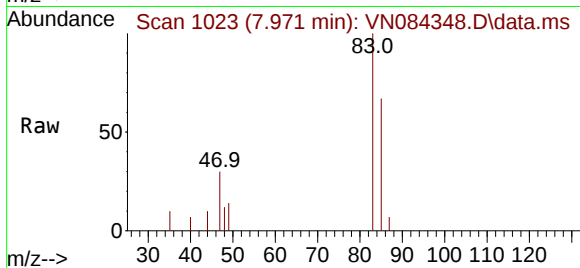
001-WILLETS-PT-BLVD(SEP)

Tgt Ion: 83 Resp: 5224

Ion Ratio Lower Upper

83 100

85 67.4 52.4 78.6



#27

1,2-Dichloroethane-d4

Concen: 31.371 ug/l

RT: 8.576 min Scan# 1126

Delta R.T. -0.006 min

Lab File: VN084348.D

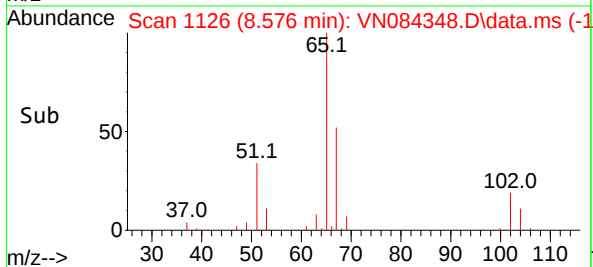
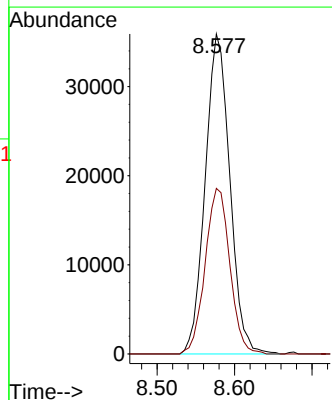
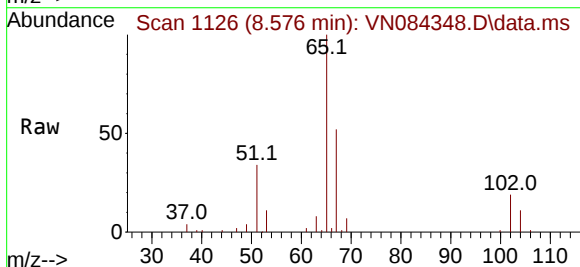
Acq: 08 Oct 2024 14:53

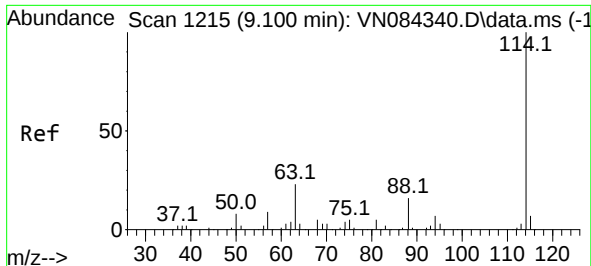
Tgt Ion: 65 Resp: 79279

Ion Ratio Lower Upper

65 100

67 51.8 41.5 62.3





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN084348.D

Acq: 08 Oct 2024 14:53

Instrument :

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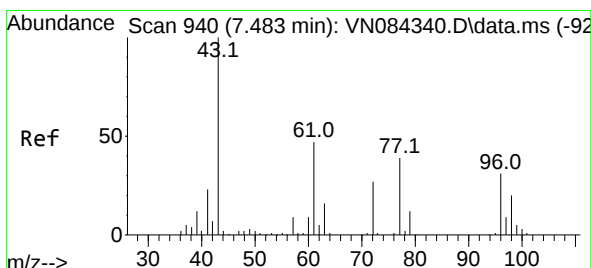
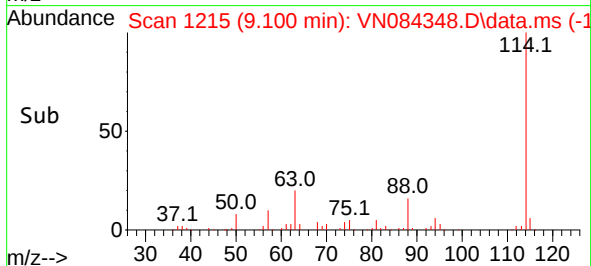
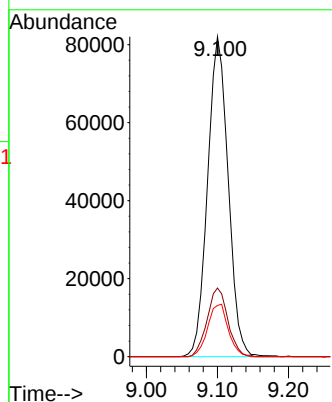
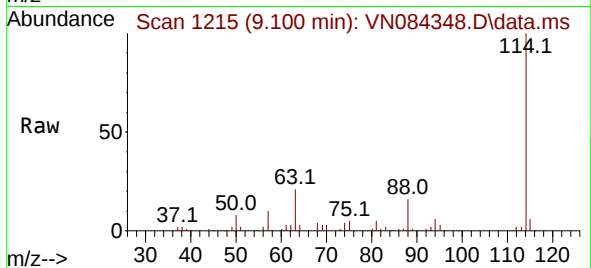
Tgt Ion:114 Resp: 165437

Ion Ratio Lower Upper

114 100

63 21.6 17.4 26.0

88 16.4 13.2 19.8



#30

2-Butanone

Concen: 24.994 ug/l

RT: 7.482 min Scan# 940

Delta R.T. -0.000 min

Lab File: VN084348.D

Acq: 08 Oct 2024 14:53

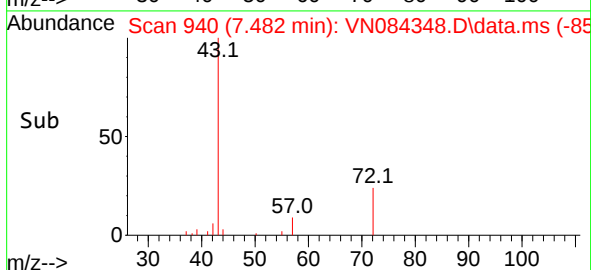
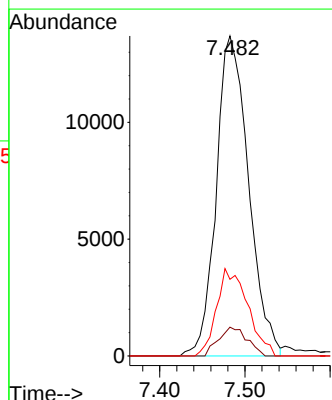
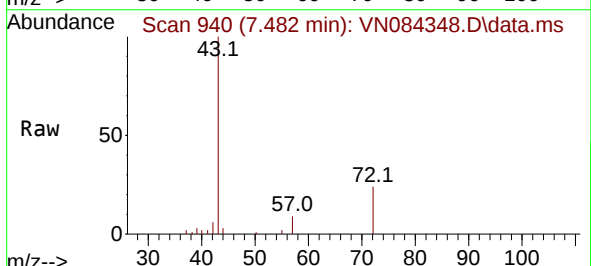
Tgt Ion: 43 Resp: 36140

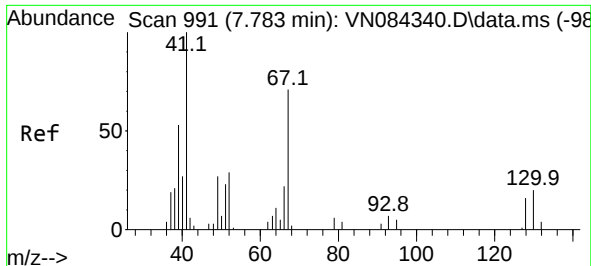
Ion Ratio Lower Upper

43 100

57 8.0 6.6 9.8

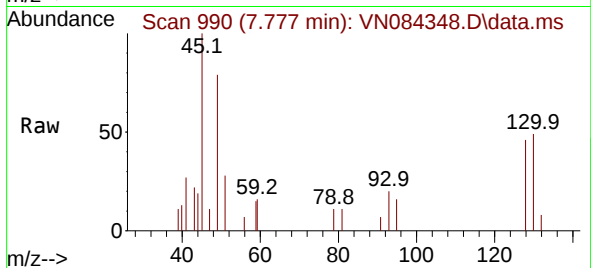
72 26.2 21.3 31.9



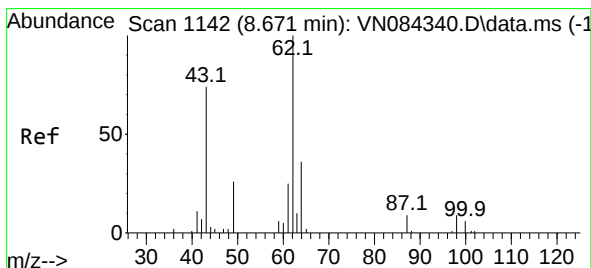
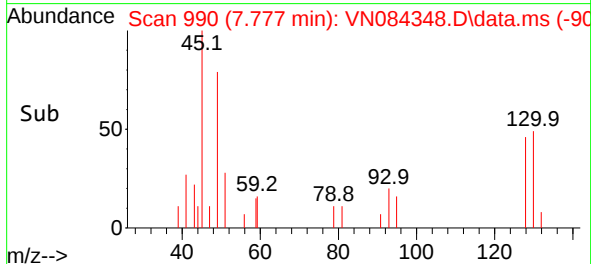
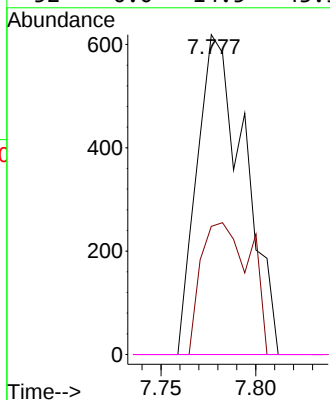


#35
Methacrylonitrile
Concen: 0.699 ug/l
RT: 7.777 min Scan# 91
Delta R.T. -0.006 min
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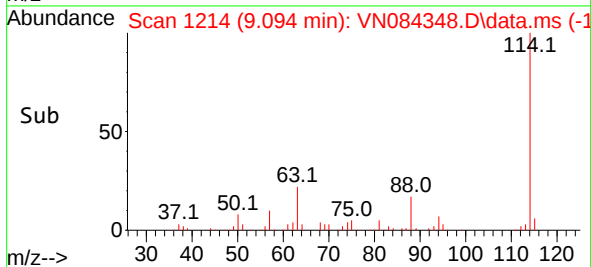
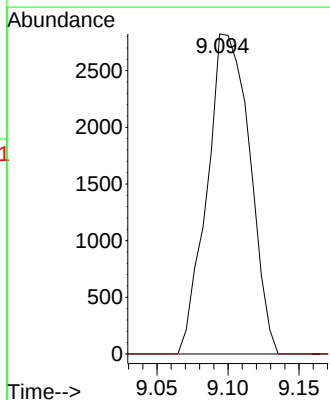
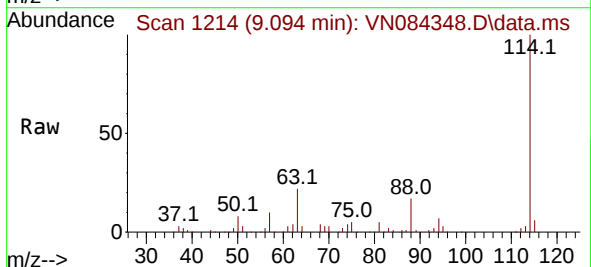


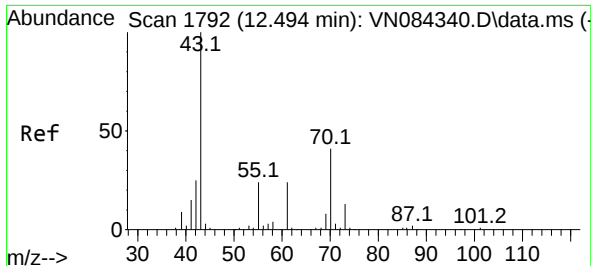
Tgt Ion: 41 Resp: 1079
Ion Ratio Lower Upper
41 100
39 40.1 26.4 79.0
67 0.0 35.7 107.1#
52 0.0 14.5 43.5#



#36
1,2-Dichloroethane
Concen: 2.081 ug/l
RT: 9.094 min Scan# 1214
Delta R.T. 0.423 min
Lab File: VN084348.D
Acq: 08 Oct 2024 14:53

Tgt Ion: 62 Resp: 5898
Ion Ratio Lower Upper
62 100
98 0.0 7.3 10.9#

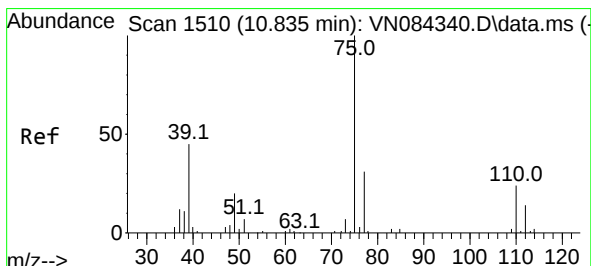
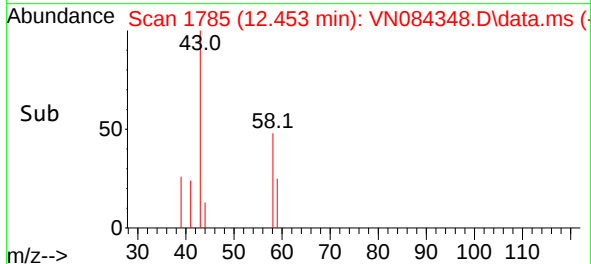
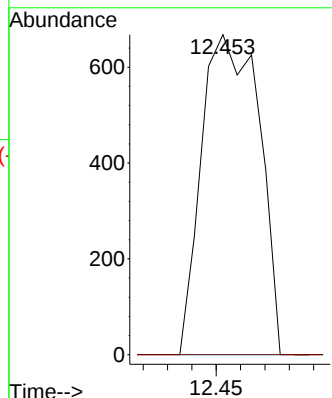
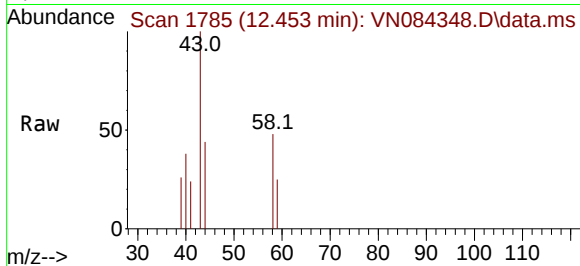




#47
n-amy1 Acetate
Concen: 0.264 ug/l
RT: 12.453 min Scan# 11
Delta R.T. -0.041 min
Lab File: VN084348.D
Acq: 08 Oct 2024 14:53

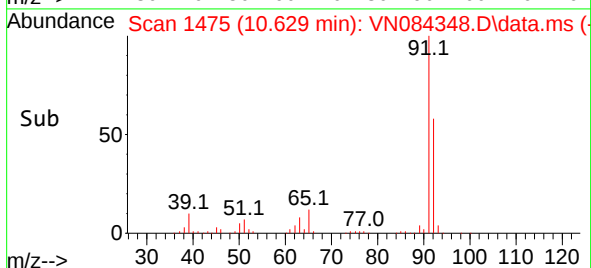
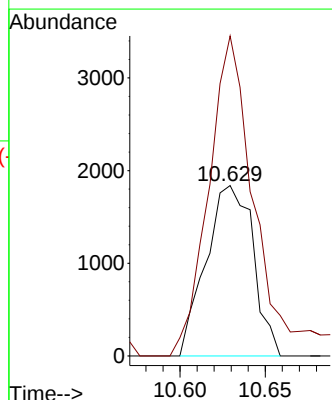
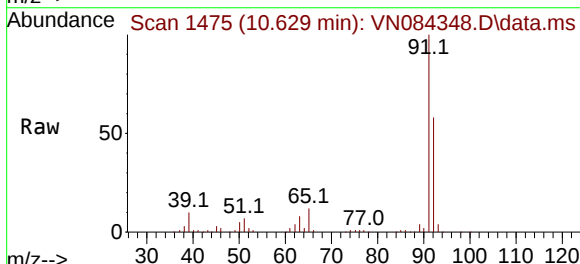
Instrument :
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ClientSampleId :
001-WILLETS-PT-BLVD(SEP)

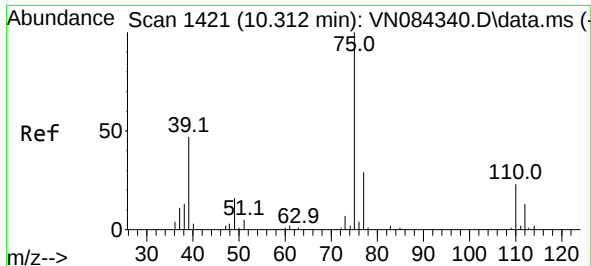
Tgt Ion: 43 Resp: 1098
Ion Ratio Lower Upper
43 100
55 0.0 20.6 31.0#



#48
t-1,3-Dichloropropene
Concen: 1.113 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.206 min
Lab File: VN084348.D
Acq: 08 Oct 2024 14:53

Tgt Ion: 75 Resp: 3539
Ion Ratio Lower Upper
75 100
77 177.1 24.6 37.0#





#49

cis-1,3-Dichloropropene

Concen: 1.062 ug/l

RT: 10.629 min Scan# 14

Delta R.T. 0.318 min

Lab File: VN084348.D

Acq: 08 Oct 2024 14:53

Instrument :

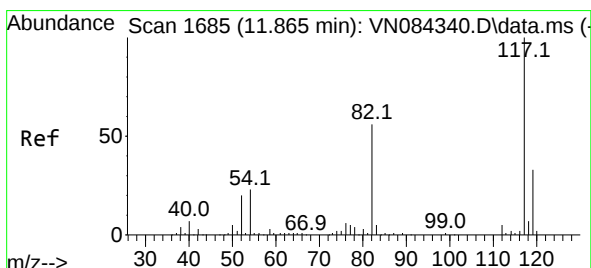
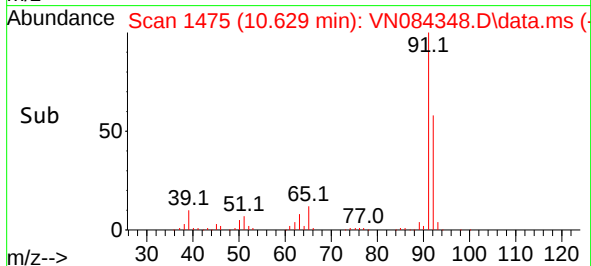
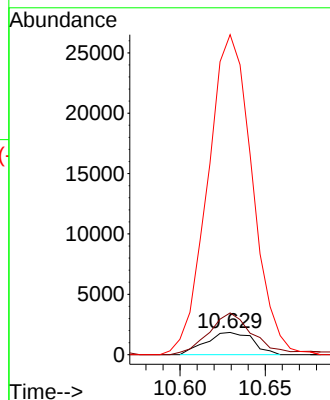
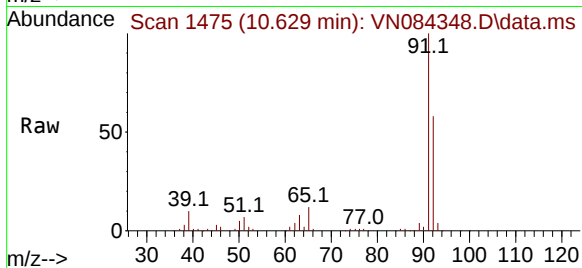
MSVOA_N

ClientSampleId :

001-WILLETS-PT-BLVD(SEP)

Tgt Ion: 75 Resp: 3539

Ion	Ratio	Lower	Upper
75	100		
77	177.1	22.9	34.3#
39	1372.1	37.4	56.2#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.865 min Scan# 1685

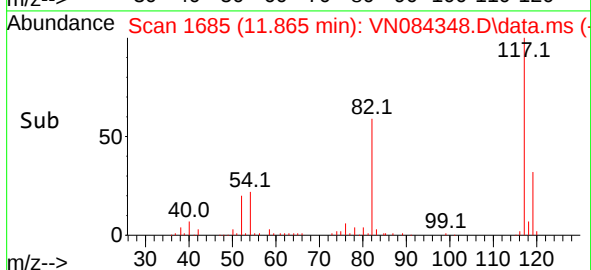
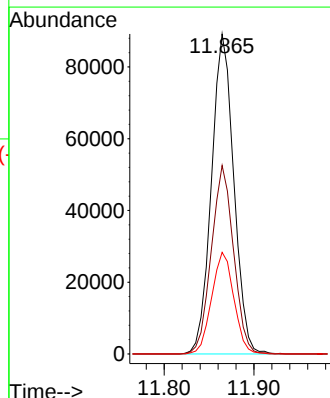
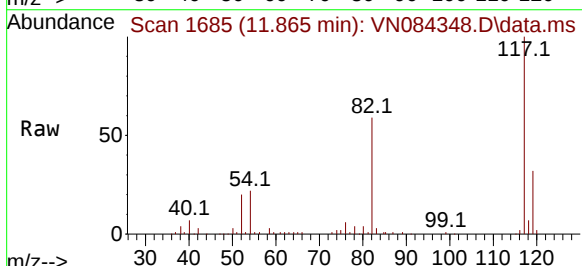
Delta R.T. -0.000 min

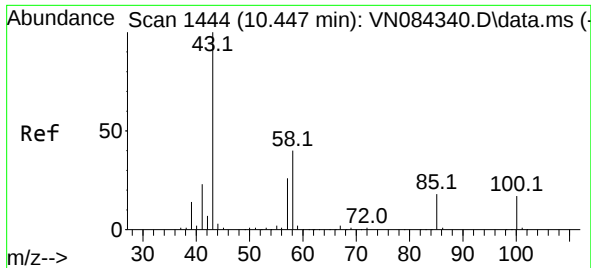
Lab File: VN084348.D

Acq: 08 Oct 2024 14:53

Tgt Ion: 117 Resp: 154322

Ion	Ratio	Lower	Upper
117	100		
82	58.7	46.2	69.4
119	31.6	25.4	38.2

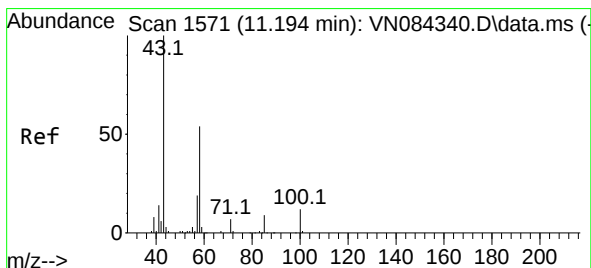
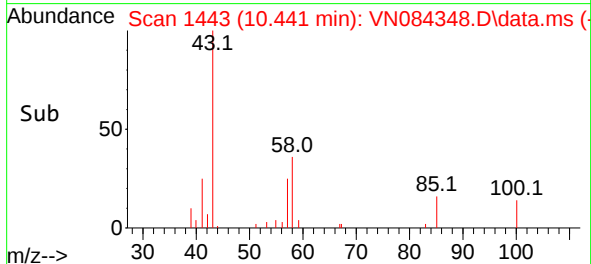
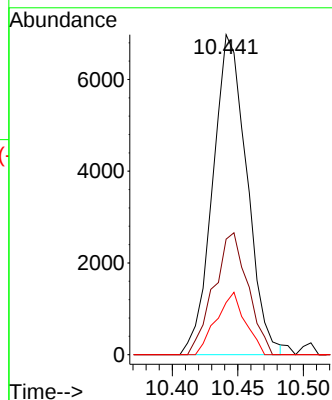
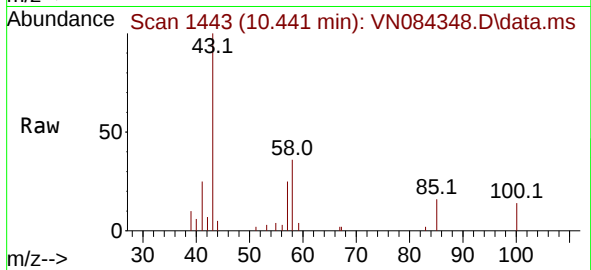




#58
4-Methyl-2-Pentanone
Concen: 4.387 ug/l
RT: 10.441 min Scan# 1444
Delta R.T. -0.006 min
Lab File: VN084348.D
Acq: 08 Oct 2024 14:53

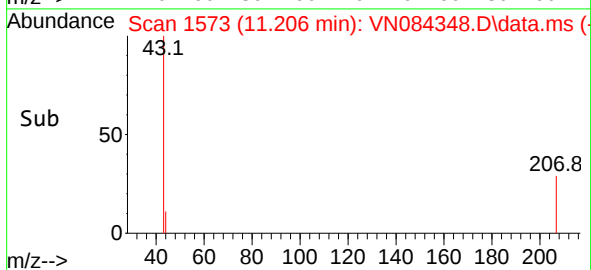
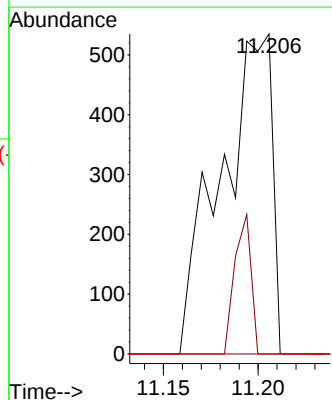
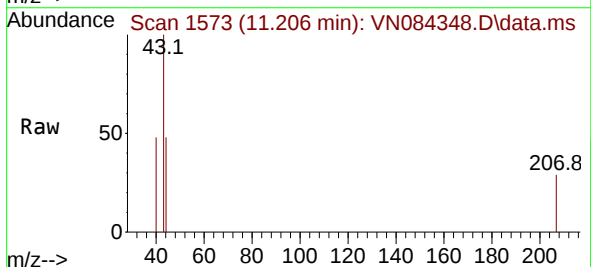
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(SEP)

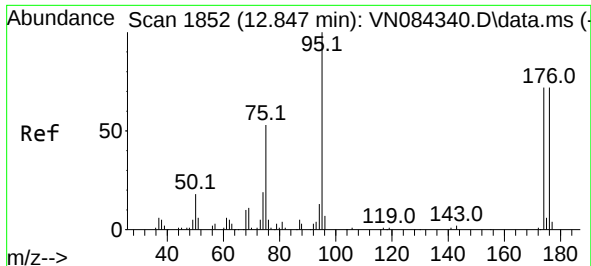
Tgt Ion:	43	Resp:	12613
Ion	Ratio	Lower	Upper
43	100		
58	38.0	31.9	47.9
85	16.5	14.6	22.0



#59
2-Hexanone
Concen: 0.473 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.012 min
Lab File: VN084348.D
Acq: 08 Oct 2024 14:53

Tgt Ion:	43	Resp:	1010
Ion	Ratio	Lower	Upper
43	100		
58	13.9	44.0	66.0#
57	0.0	15.4	23.2#

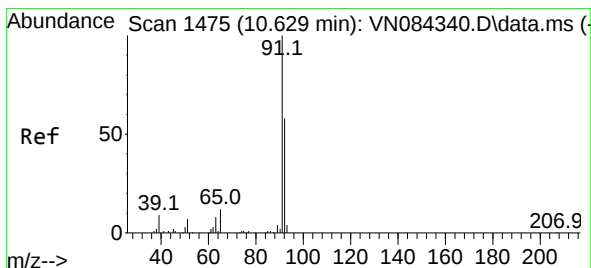
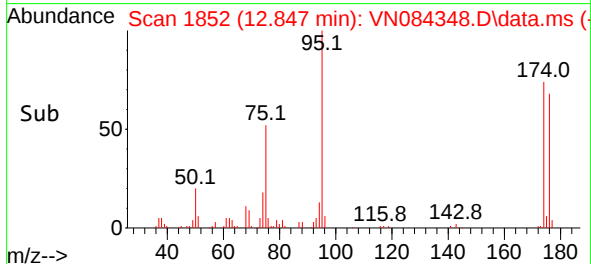
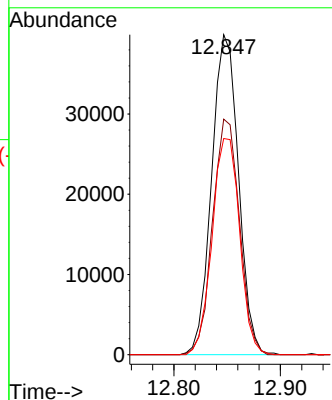
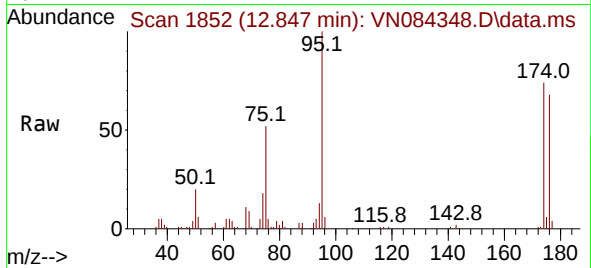




#60
4-Bromofluorobenzene
Concen: 27.422 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN084348.D
Acq: 08 Oct 2024 14:53

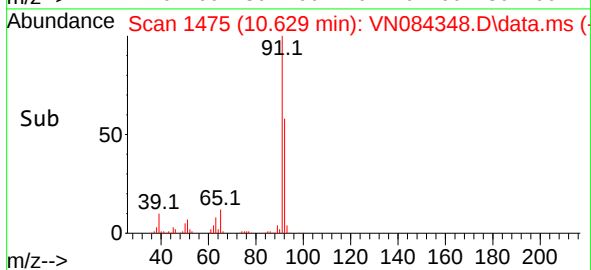
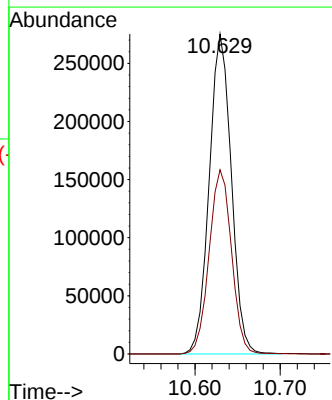
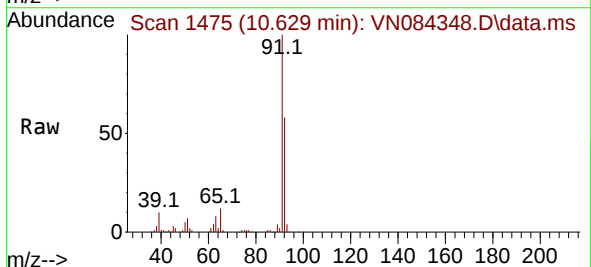
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(SEP)

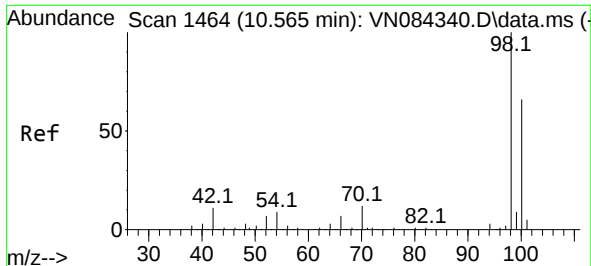
Tgt Ion: 95 Resp: 69842
Ion Ratio Lower Upper
95 100
174 73.6 58.2 87.2
176 69.2 56.4 84.6



#62
Toluene
Concen: 54.868 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN084348.D
Acq: 08 Oct 2024 14:53

Tgt Ion: 91 Resp: 495692
Ion Ratio Lower Upper
91 100
92 58.4 47.2 70.8

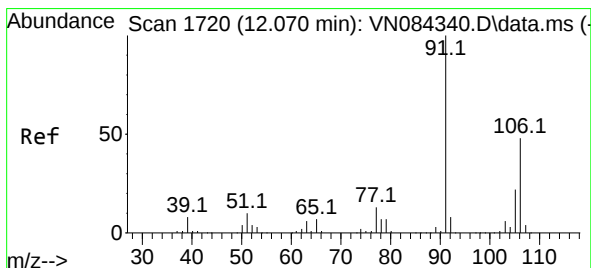
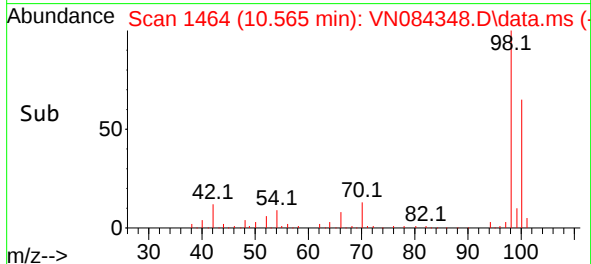
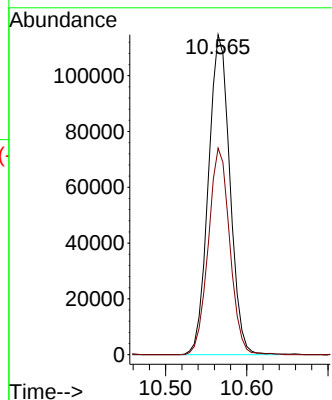
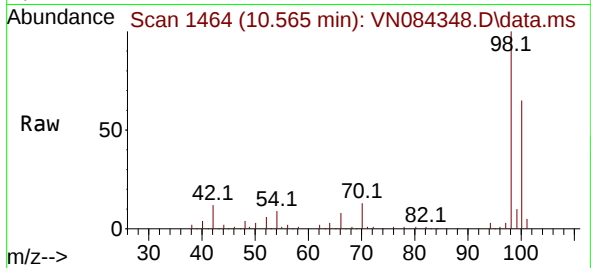




#63
Toluene-d8
Concen: 29.444 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN084348.D
Acq: 08 Oct 2024 14:53

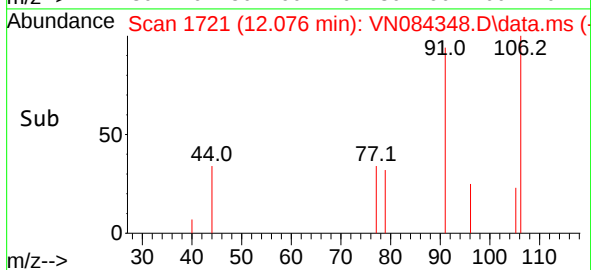
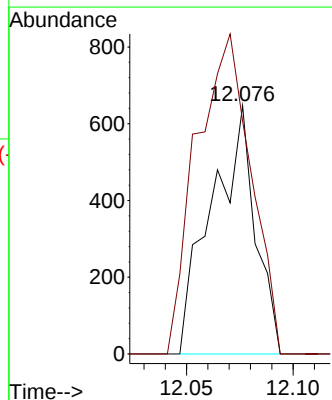
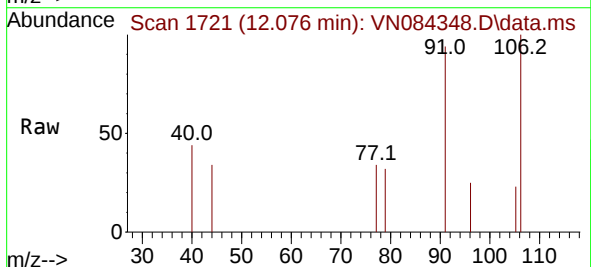
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(SEP)

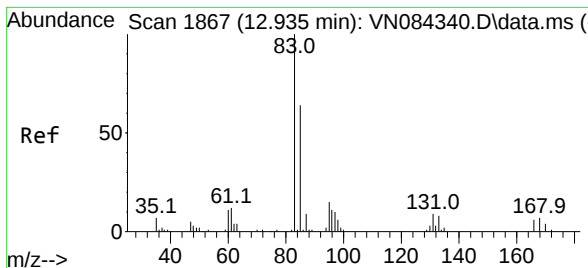
Tgt Ion: 98 Resp: 210498
Ion Ratio Lower Upper
98 100
100 64.4 52.5 78.7



#67
m/p-Xylenes
Concen: 0.247 ug/l
RT: 12.076 min Scan# 1721
Delta R.T. 0.006 min
Lab File: VN084348.D
Acq: 08 Oct 2024 14:53

Tgt Ion:106 Resp: 921
Ion Ratio Lower Upper
106 100
91 160.9 166.7 250.1#





#71

1,1,2,2-Tetrachloroethane

Concen: 0.416 ug/l

RT: 13.370 min Scan# 1941

Delta R.T. 0.435 min

Lab File: VN084348.D

Acq: 08 Oct 2024 14:53

Instrument :

MSVOA_N

ClientSampleId :

001-WILLETS-PT-BLVD(SEP)

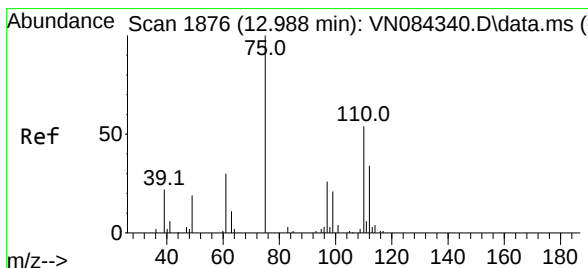
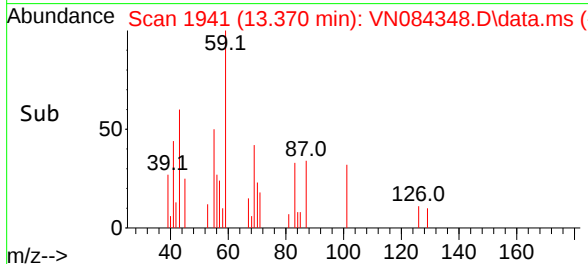
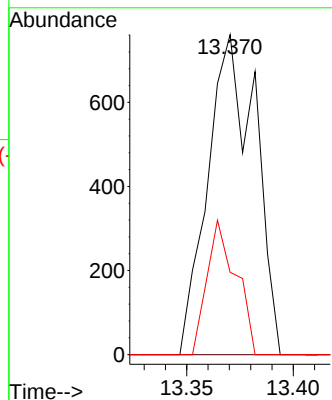
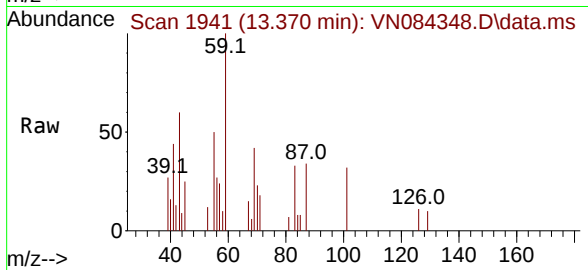
Tgt Ion: 83 Resp: 1178

Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.3#

85 25.6 32.0 96.2#



#72

1,2,3-Trichloropropane

Concen: 14.732 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.141 min

Lab File: VN084348.D

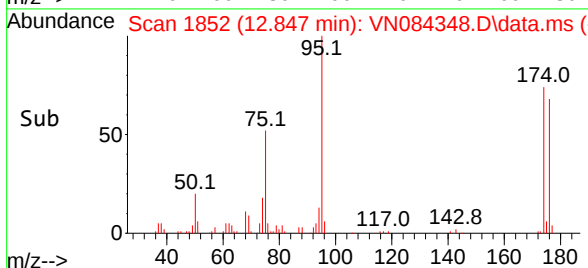
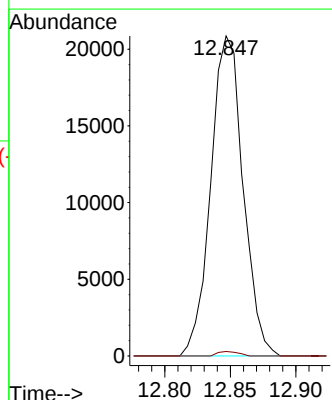
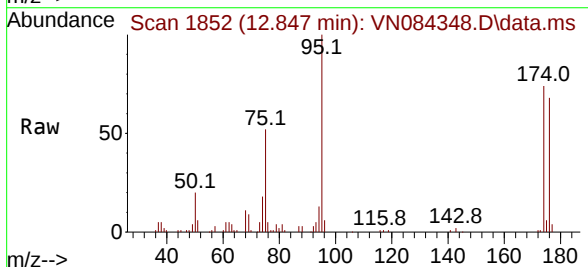
Acq: 08 Oct 2024 14:53

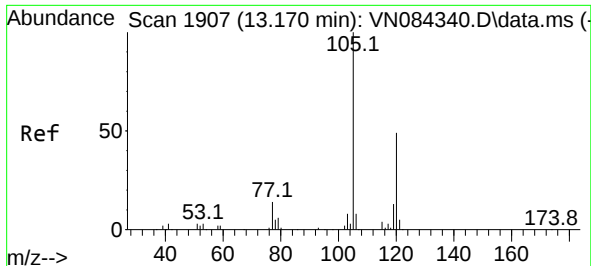
Tgt Ion: 75 Resp: 35762

Ion Ratio Lower Upper

75 100

77 0.9 0.0 414.0

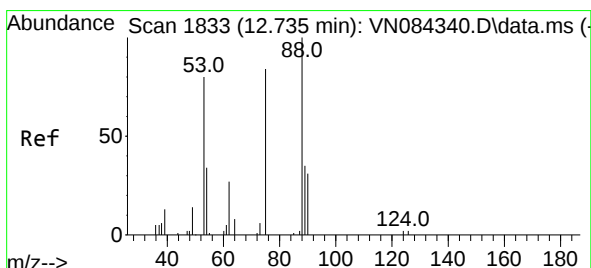
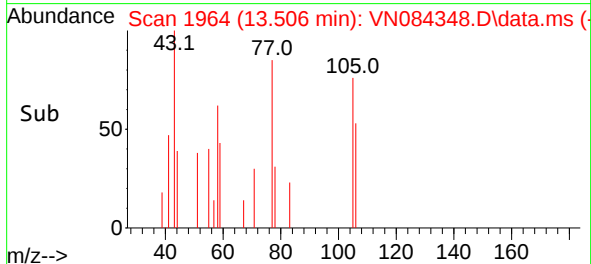
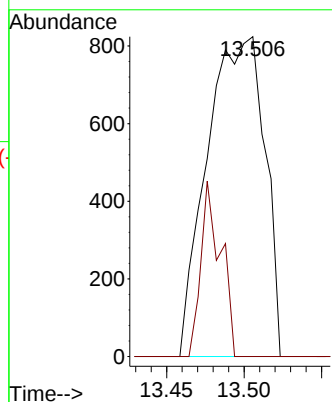
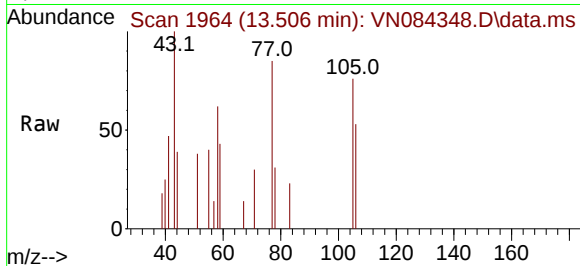




#76
1,3,5-Trimethylbenzene
Concen: 0.275 ug/l
RT: 13.506 min Scan# 1907
Delta R.T. 0.335 min
Lab File: VN084348.D
Acq: 08 Oct 2024 14:53

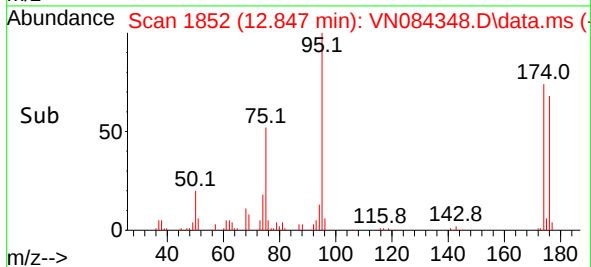
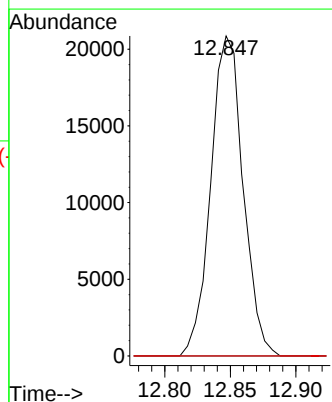
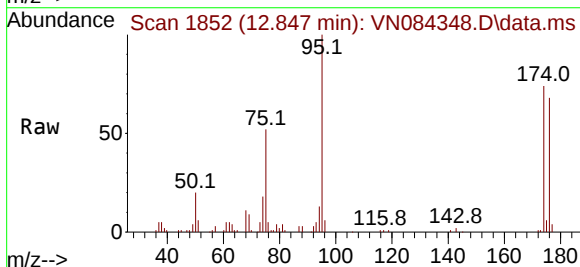
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(SEP)

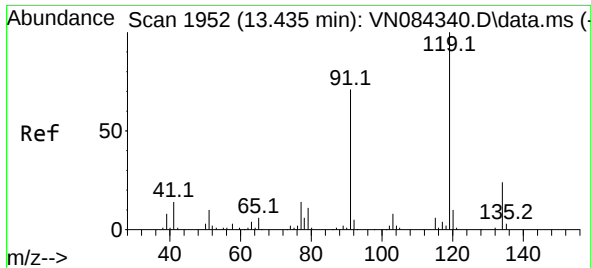
Tgt Ion:105 Resp: 2122
Ion Ratio Lower Upper
105 100
120 19.0 0.0 94.4



#77
t-1,4-Dichloro-2-butene
Concen: 34.476 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN084348.D
Acq: 08 Oct 2024 14:53

Tgt Ion: 75 Resp: 35762
Ion Ratio Lower Upper
75 100
53 0.0 47.3 142.0#
89 0.0 22.9 68.8#

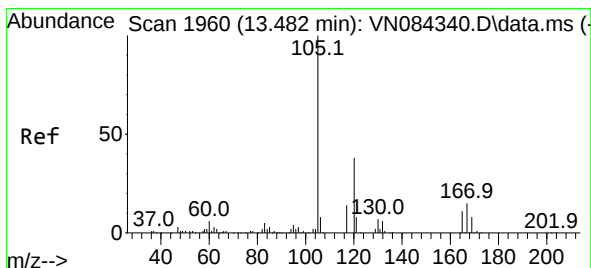
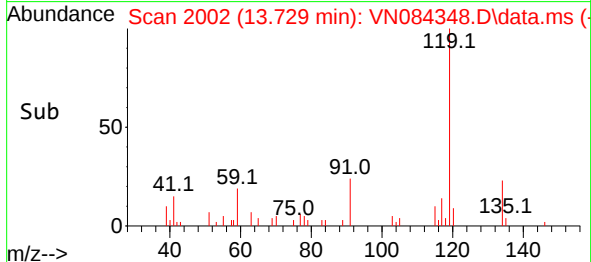
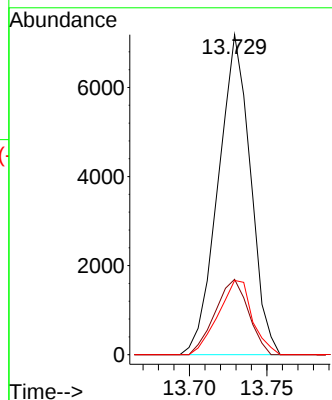
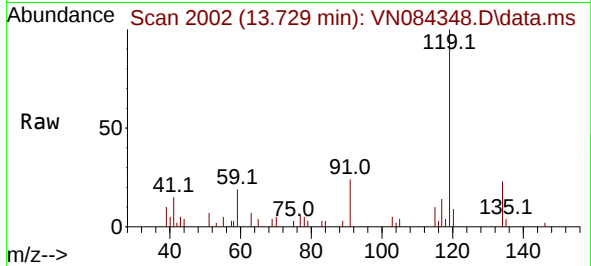




#79
tert-butylbenzene
Concen: 1.580 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.294 min
Lab File: VN084348.D
Acq: 08 Oct 2024 14:53

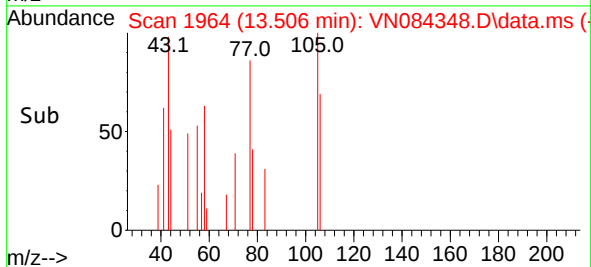
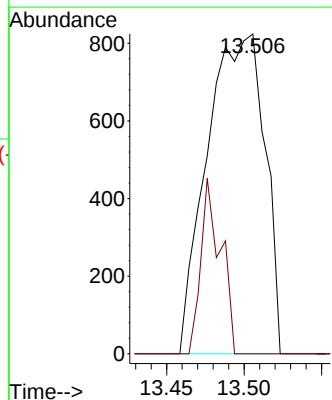
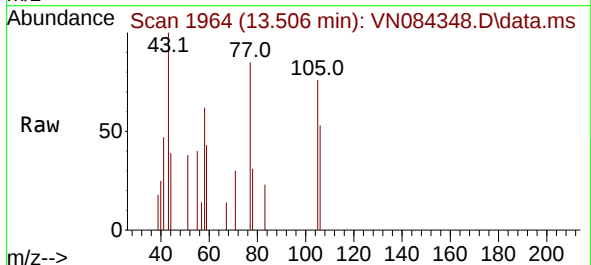
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(SEP)

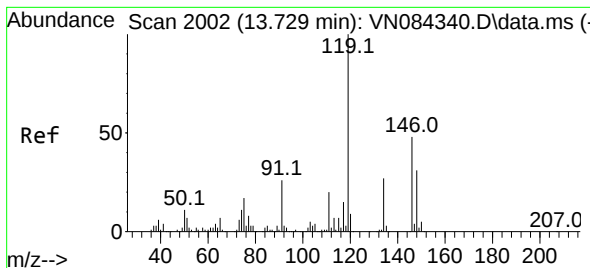
Tgt Ion:119 Resp: 10396
Ion Ratio Lower Upper
119 100
91 24.4 0.0 138.0
134 24.5 0.0 48.8



#80
1,2,4-Trimethylbenzene
Concen: 0.271 ug/l
RT: 13.506 min Scan# 1964
Delta R.T. 0.023 min
Lab File: VN084348.D
Acq: 08 Oct 2024 14:53

Tgt Ion:105 Resp: 2122
Ion Ratio Lower Upper
105 100
120 19.0 0.0 88.8





#82

p-Isopropyltoluene

Concen: 1.363 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.000 min

Lab File: VN084348.D

Acq: 08 Oct 2024 14:53

Instrument :

MSVOA_N

ClientSampleId :

001-WILLETS-PT-BLVD(SEP)

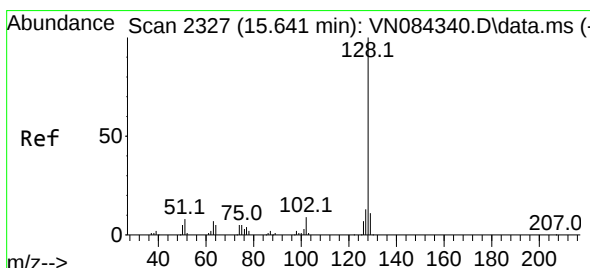
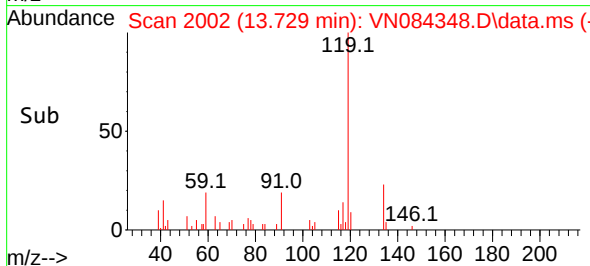
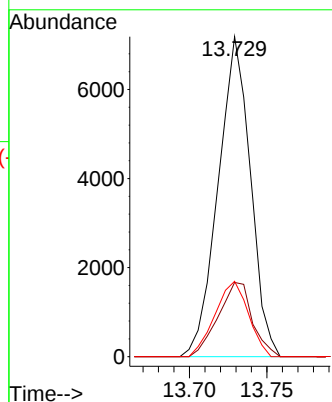
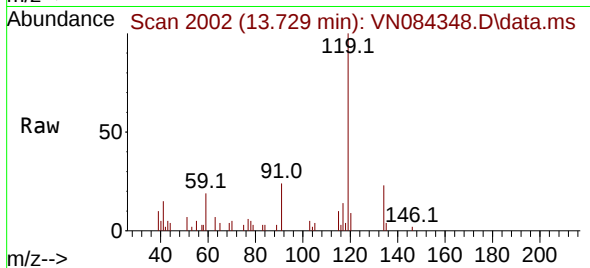
Tgt Ion:119 Resp: 10396

Ion Ratio Lower Upper

119 100

134 24.5 0.0 50.2

91 24.4 0.0 50.6



#91

Naphthalene

Concen: 0.576 ug/l

RT: 15.635 min Scan# 2326

Delta R.T. -0.006 min

Lab File: VN084348.D

Acq: 08 Oct 2024 14:53

Tgt Ion:128 Resp: 4046

Ion Ratio Lower Upper

128 100

127 14.9 10.3 15.5

129 7.0 8.8 13.2#

