

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080923\
 Data File : VN078816.D
 Acq On : 09 Aug 2023 13:31
 Operator : JC\MD
 Sample : 03940-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

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

Quant Time: Aug 10 05:28:29 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 09 05:05:47 2023
 Response via : Initial Calibration

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

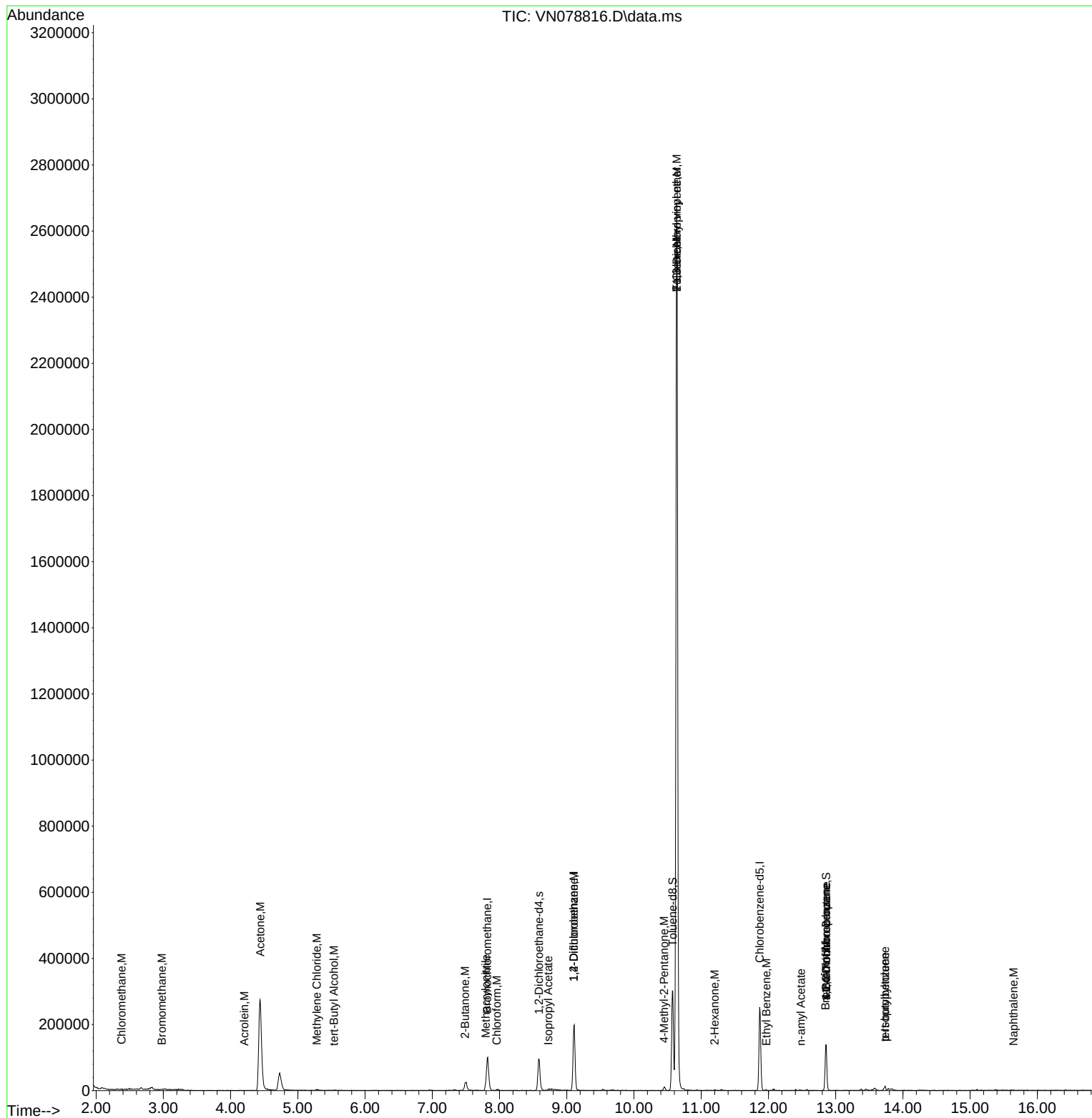
Internal Standards						
1) Bromochloromethane	7.818	128	31850	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	166113	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	144374	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.588	65	75860	29.584	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	98.600%
60) 4-Bromofluorobenzene	12.859	95	45708	22.555	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	75.167%
63) Toluene-d8	10.576	98	208931	29.532	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	98.433%
Target Compounds						
					Qvalue	
3) Chloromethane	2.377	50	981	0.375	ug/l #	80
5) Bromomethane	2.977	94	666	0.368	ug/l #	57
13) Acrolein	4.206	56	187	0.458	ug/l #	1
15) Acetone	4.442	58	159118	607.915	ug/l	85
18) Methylene Chloride	5.283	84	834	0.377	ug/l #	21
23) tert-Butyl Alcohol	5.536	59	561	1.486	ug/l #	100
25) Chloroform	7.959	83	1149	0.292	ug/l	99
30) 2-Butanone	7.488	43	19094	14.435	ug/l #	68
35) Methacrylonitrile	7.794	41	660	0.425	ug/l #	14
36) 1,2-Dichloroethane	9.106	62	6902	2.404	ug/l #	75
44) Isopropyl Acetate	8.724	43	1333	0.270	ug/l #	64
47) n-amyl Acetate	12.482	43	886	0.257	ug/l #	48
48) t-1,3-Dichloropropene	10.635	75	14872	5.053	ug/l #	1
55) 2-Chloroethyl vinyl ether	10.635	63	138092	135.895	ug/l #	1
56) Bromoform	12.847	173	347	0.270	ug/l #	1
58) 4-Methyl-2-Pentanone	10.447	43	7438	2.680	ug/l #	87
59) 2-Hexanone	11.200	43	1238	0.642	ug/l #	58
62) Toluene	10.635	91	1966484	231.356	ug/l	98
66) Ethyl Benzene	11.971	91	1889	0.214	ug/l #	78
72) 1,2,3-Trichloropropane	12.859	75	26668	11.329	ug/l #	1
77) t-1,4-Dichloro-2-butene	12.859	75	26668	36.094	ug/l #	15
79) tert-butylbenzene	13.735	119	6480	1.250	ug/l	67
82) p-Isopropyltoluene	13.735	119	6480	1.192	ug/l	92
91) Naphthalene	15.647	128	652	0.260	ug/l #	69

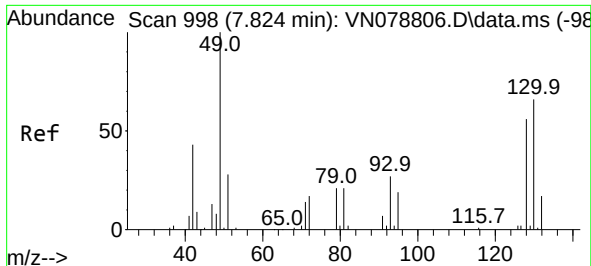
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Aug 09 05:05:47 2023
Response via : Initial Calibration

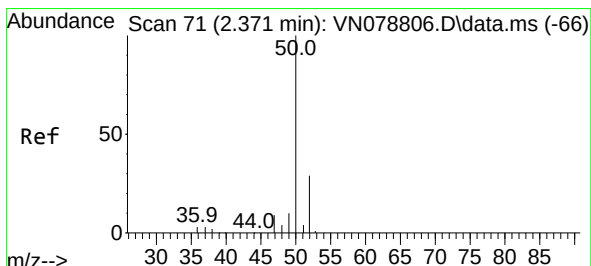
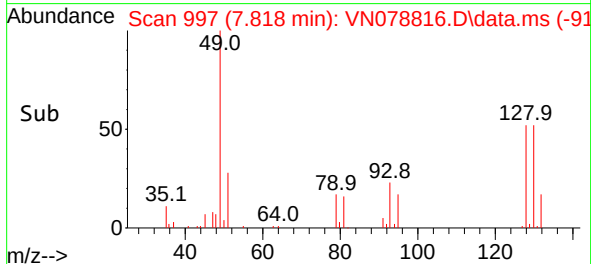
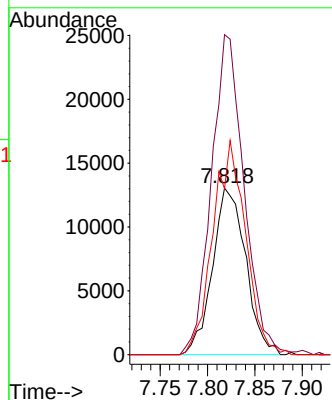
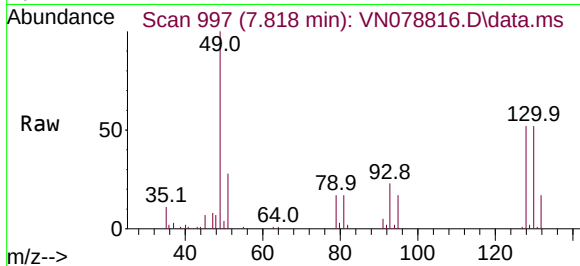




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN078816.D
Acq: 09 Aug 2023 13:31

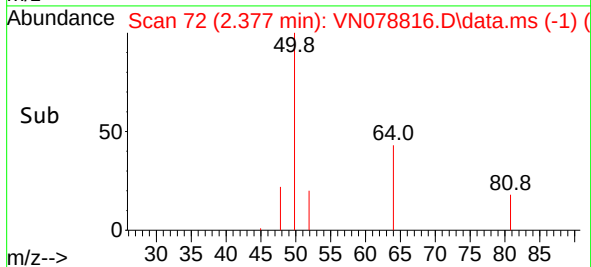
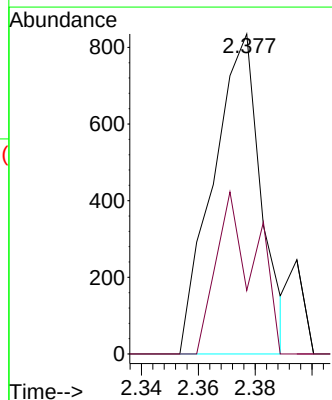
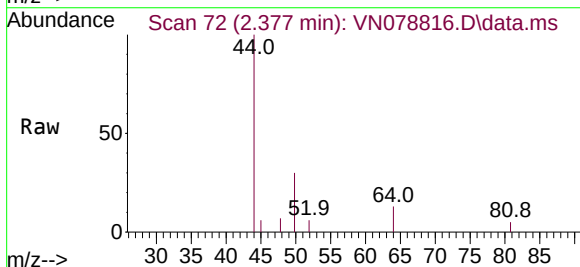
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(JUNE)

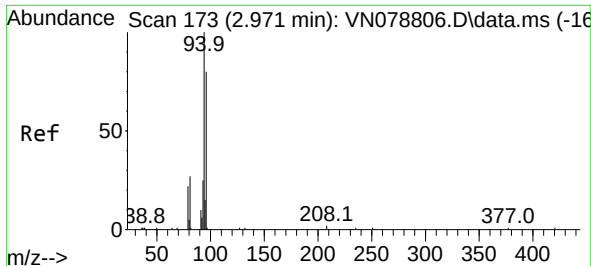
Tgt Ion:128 Resp: 31850
Ion Ratio Lower Upper
128 100
49 188.3 0.0 370.8
130 126.5 0.0 307.0



#3
Chloromethane
Concen: 0.375 ug/l
RT: 2.377 min Scan# 72
Delta R.T. 0.006 min
Lab File: VN078816.D
Acq: 09 Aug 2023 13:31

Tgt Ion: 50 Resp: 981
Ion Ratio Lower Upper
50 100
52 19.9 24.6 36.8#

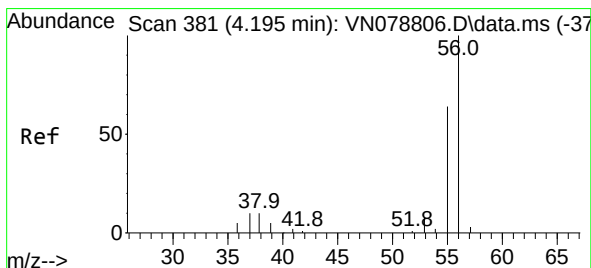
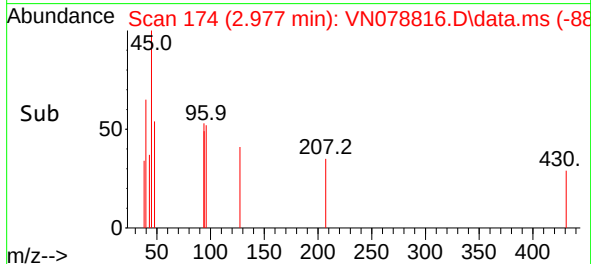
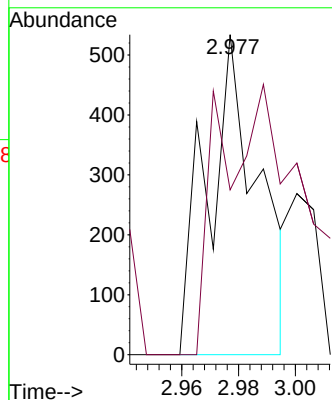
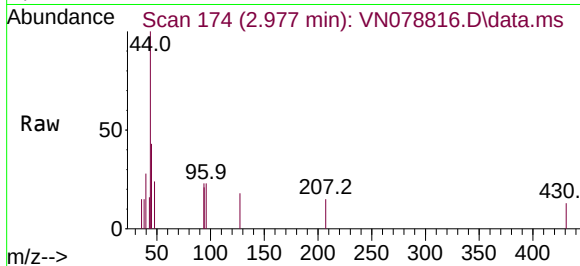




#5
Bromomethane
Concen: 0.368 ug/l
RT: 2.977 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN078816.D
Acq: 09 Aug 2023 13:31

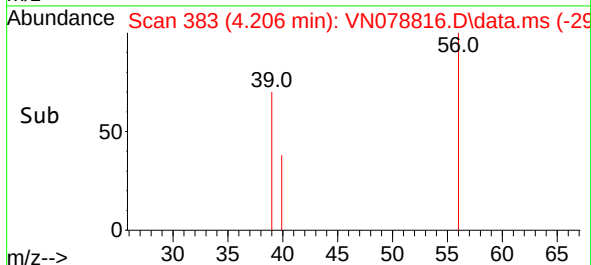
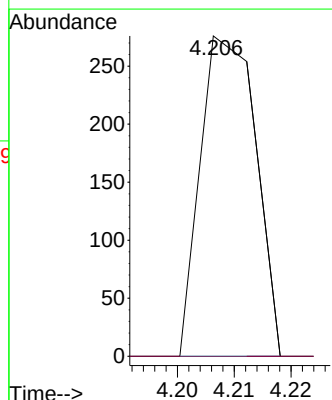
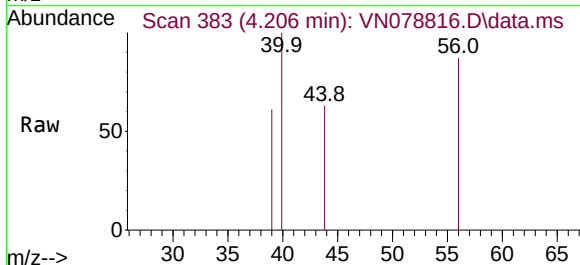
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(JUNE)

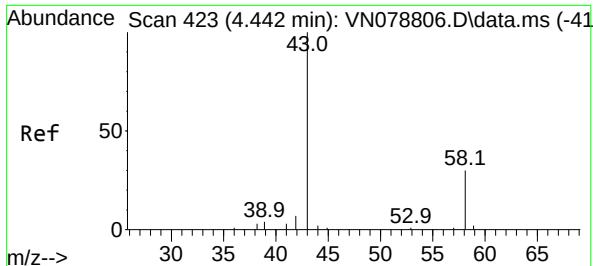
Tgt Ion: 94 Resp: 666
Ion Ratio Lower Upper
94 100
96 51.5 73.9 110.9#



#13
Acrolein
Concen: 0.458 ug/l
RT: 4.206 min Scan# 383
Delta R.T. 0.012 min
Lab File: VN078816.D
Acq: 09 Aug 2023 13:31

Tgt Ion: 56 Resp: 187
Ion Ratio Lower Upper
56 100
55 329.4 59.0 88.4#





#15

Acetone

Concen: 607.915 ug/l

RT: 4.442 min Scan# 41

Delta R.T. -0.000 min

Lab File: VN078816.D

Acq: 09 Aug 2023 13:31

Instrument :

MSVOA_N

ClientSampleId :

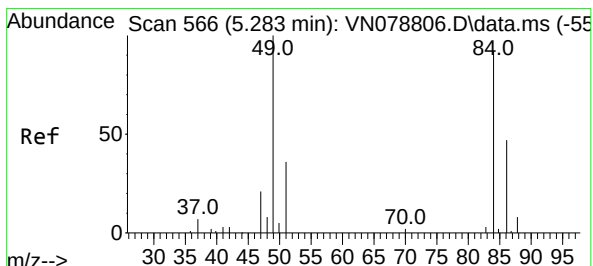
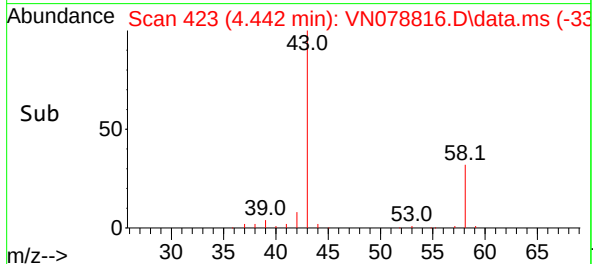
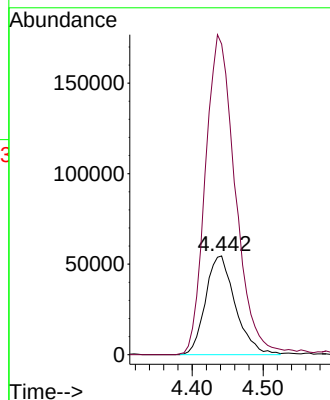
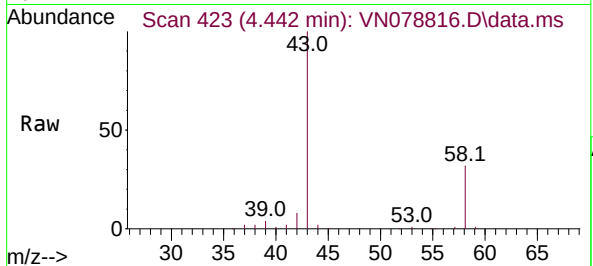
001-WILLETS-PT-BLVD(JUNE)

Tgt Ion: 58 Resp: 159118

Ion Ratio Lower Upper

58 100

43 313.5 227.5 341.3



#18

Methylene Chloride

Concen: 0.377 ug/l

RT: 5.283 min Scan# 566

Delta R.T. -0.000 min

Lab File: VN078816.D

Acq: 09 Aug 2023 13:31

Tgt Ion: 84 Resp: 834

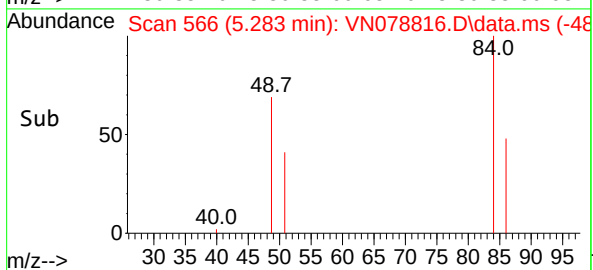
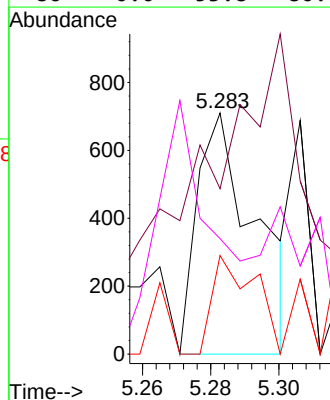
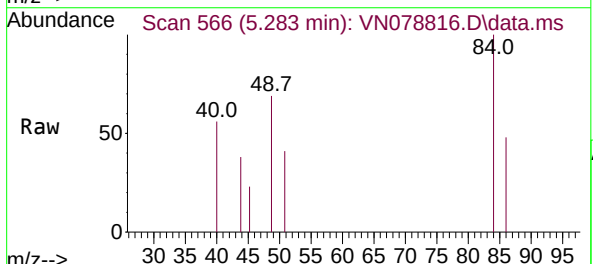
Ion Ratio Lower Upper

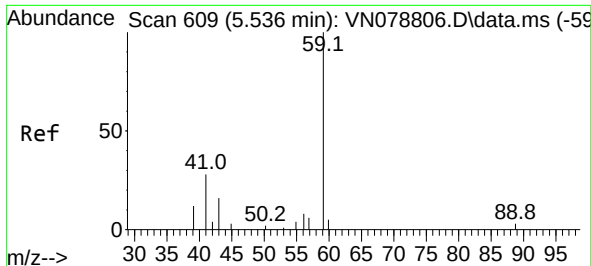
84 100

49 13.2 88.1 132.1#

51 40.8 24.0 36.0#

86 0.0 53.8 80.8#





#23

tert-Butyl Alcohol

Concen: 1.486 ug/l

RT: 5.536 min Scan# 609

Delta R.T. -0.000 min

Lab File: VN078816.D

Acq: 09 Aug 2023 13:31

Instrument :

MSVOA_N

ClientSampleId :

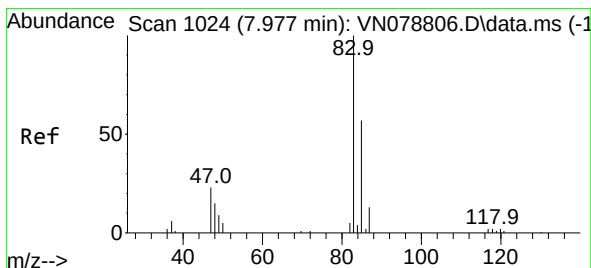
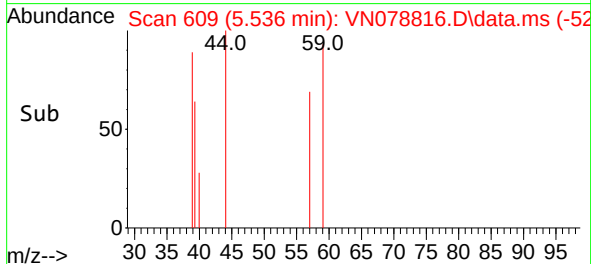
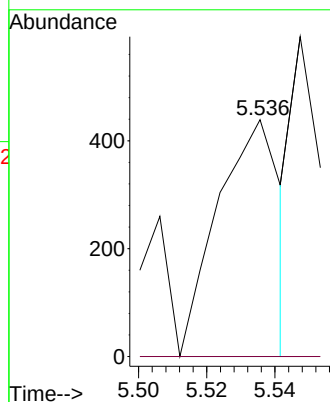
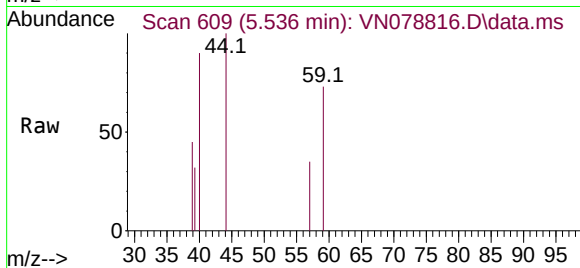
001-WILLETS-PT-BLVD(JUNE)

Tgt Ion: 59 Resp: 561

Ion Ratio Lower Upper

59 100

52 0.0 0.1 0.1#



#25

Chloroform

Concen: 0.292 ug/l

RT: 7.959 min Scan# 1021

Delta R.T. -0.018 min

Lab File: VN078816.D

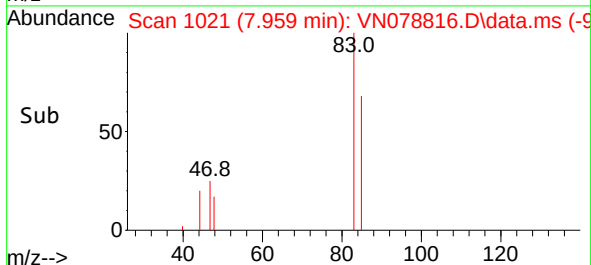
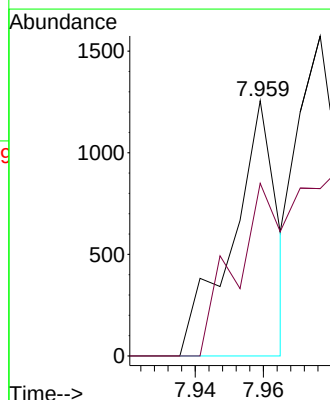
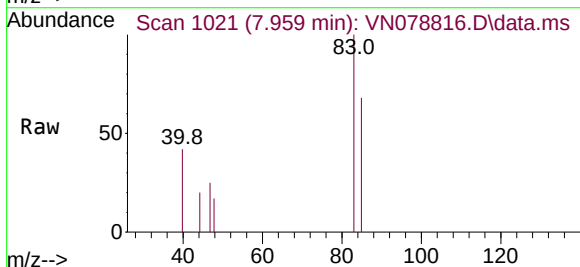
Acq: 09 Aug 2023 13:31

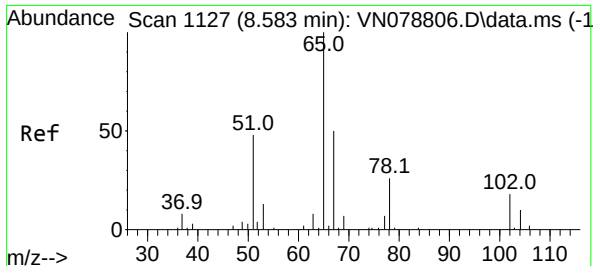
Tgt Ion: 83 Resp: 1149

Ion Ratio Lower Upper

83 100

85 67.7 53.4 80.0

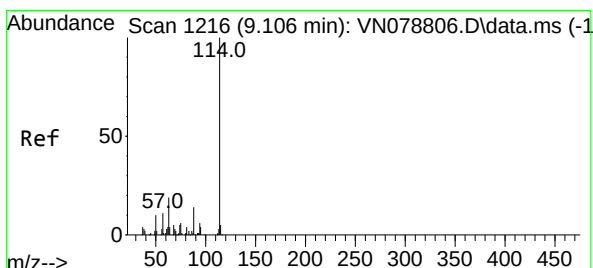
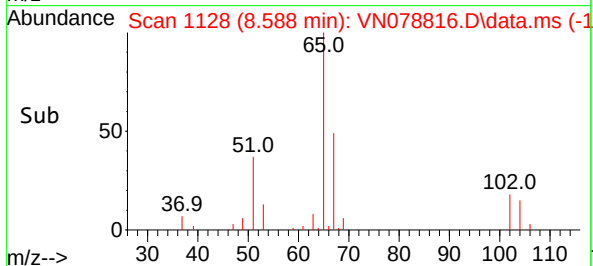
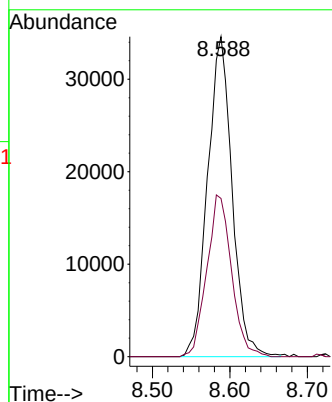
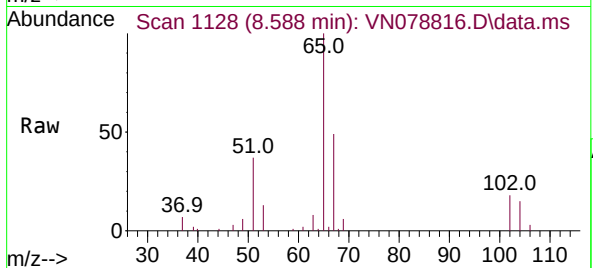




#27
1,2-Dichloroethane-d4
Concen: 29.584 ug/l
RT: 8.588 min Scan# 1127
Delta R.T. 0.006 min
Lab File: VN078816.D
Acq: 09 Aug 2023 13:31

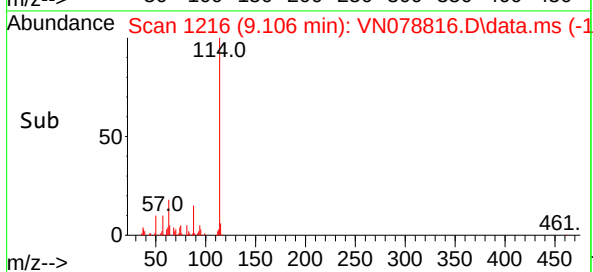
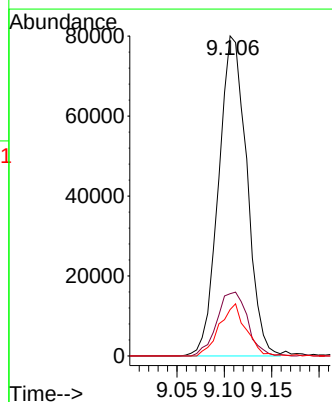
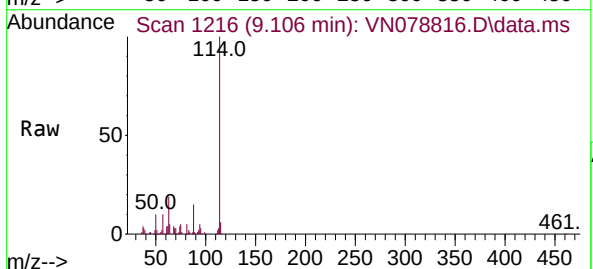
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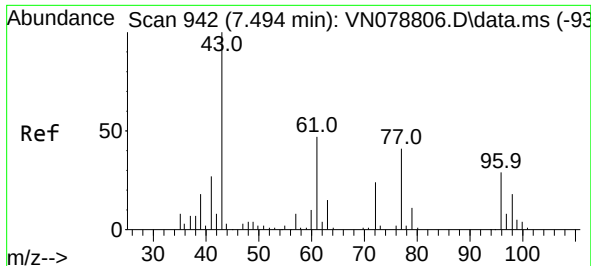
Tgt Ion: 65 Resp: 75860
Ion Ratio Lower Upper
65 100
67 51.0 42.9 64.3



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.106 min Scan# 1216
Delta R.T. -0.000 min
Lab File: VN078816.D
Acq: 09 Aug 2023 13:31

Tgt Ion: 114 Resp: 166113
Ion Ratio Lower Upper
114 100
63 21.6 15.2 22.8
88 15.4 12.5 18.7

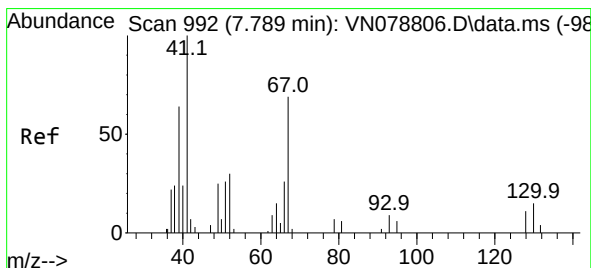
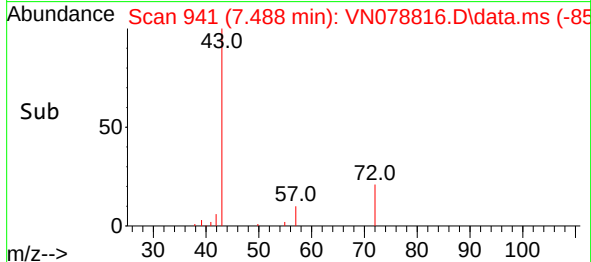
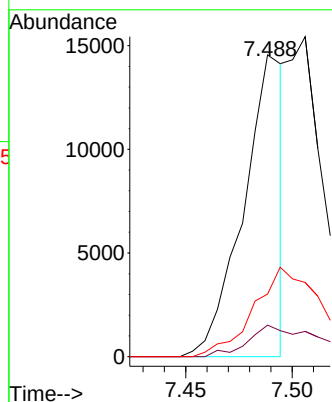
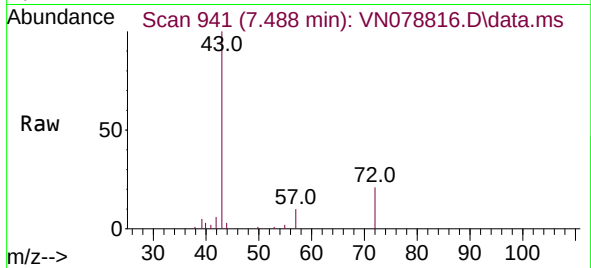




#30
2-Butanone
Concen: 14.435 ug/l
RT: 7.488 min Scan# 941
Delta R.T. -0.006 min
Lab File: VN078816.D
Acq: 09 Aug 2023 13:31

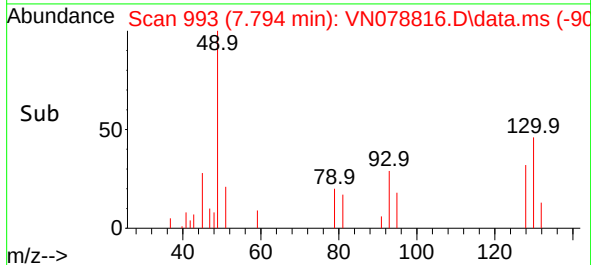
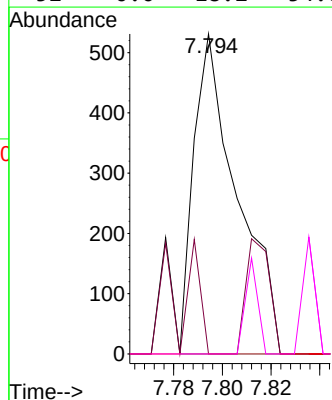
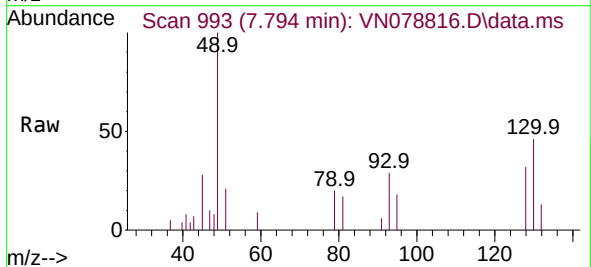
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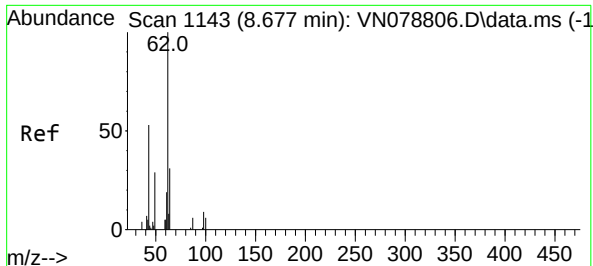
Tgt Ion: 43 Resp: 19094
Ion Ratio Lower Upper
43 100
57 11.0 6.8 10.2#
72 51.0 23.8 35.6#



#35
Methacrylonitrile
Concen: 0.425 ug/l
RT: 7.794 min Scan# 993
Delta R.T. 0.006 min
Lab File: VN078816.D
Acq: 09 Aug 2023 13:31

Tgt Ion: 41 Resp: 660
Ion Ratio Lower Upper
41 100
39 0.0 33.9 101.6#
67 0.0 45.9 137.6#
52 0.0 18.2 54.6#





#36

1,2-Dichloroethane

Concen: 2.404 ug/l

RT: 9.106 min Scan# 1151

Delta R.T. 0.429 min

Lab File: VN078816.D

Acq: 09 Aug 2023 13:31

Instrument :

MSVOA_N

ClientSampleId :

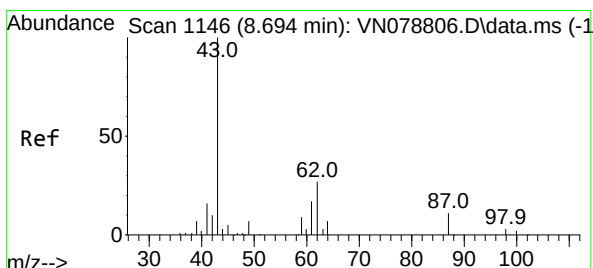
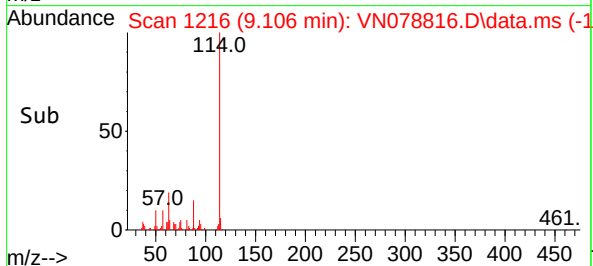
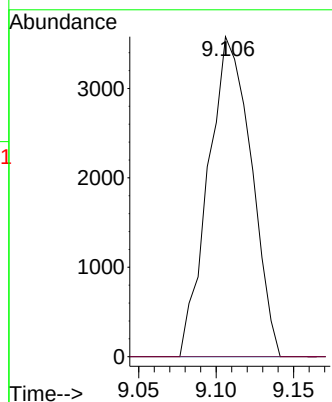
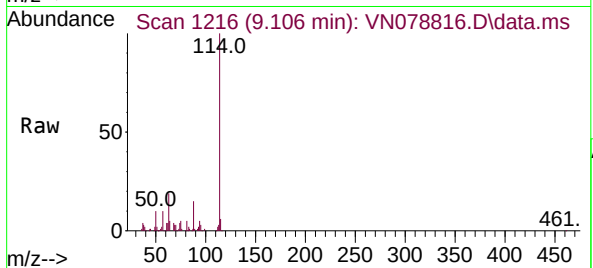
001-WILLETS-PT-BLVD(JUNE)

Tgt Ion: 62 Resp: 6902

Ion Ratio Lower Upper

62 100

98 0.0 7.4 11.0#



#44

Isopropyl Acetate

Concen: 0.270 ug/l

RT: 8.724 min Scan# 1151

Delta R.T. 0.029 min

Lab File: VN078816.D

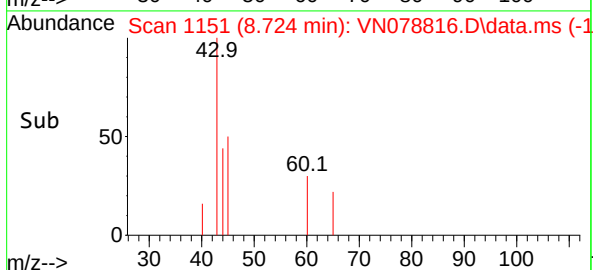
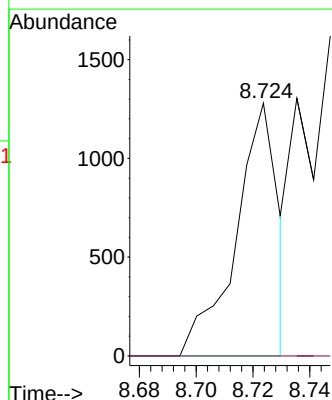
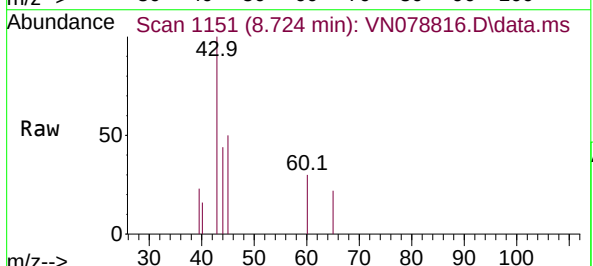
Acq: 09 Aug 2023 13:31

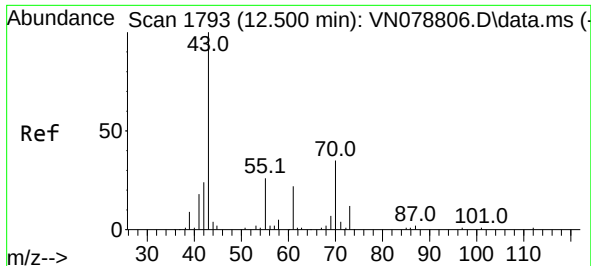
Tgt Ion: 43 Resp: 1333

Ion Ratio Lower Upper

43 100

61 9.5 23.0 34.6#

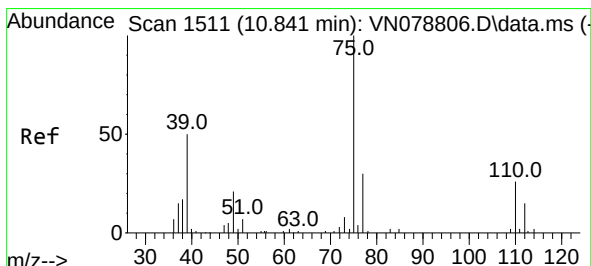
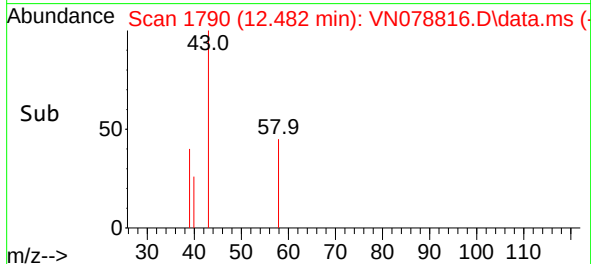
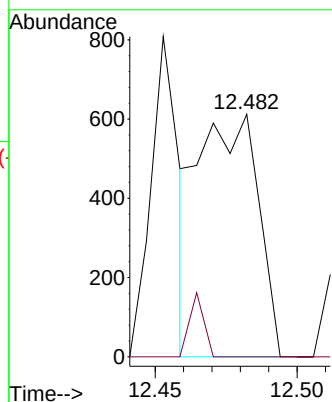
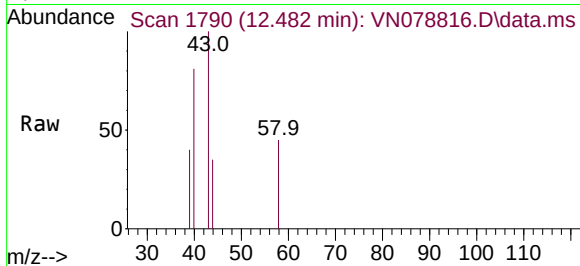




#47
n-amy1 Acetate
Concen: 0.257 ug/l
RT: 12.482 min Scan# 11
Delta R.T. -0.018 min
Lab File: VN078816.D
Acq: 09 Aug 2023 13:31

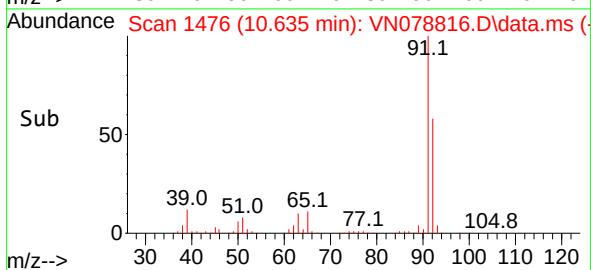
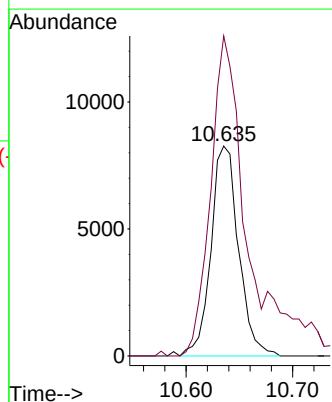
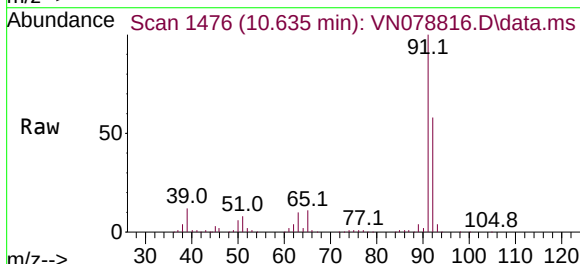
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(JUNE)

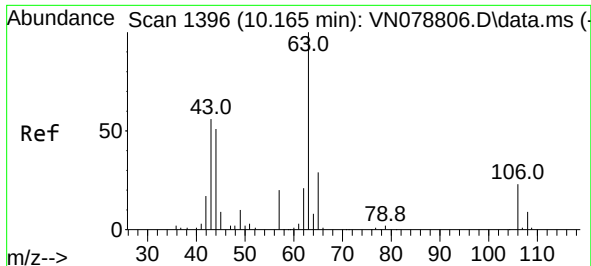
Tgt Ion: 43 Resp: 886
Ion Ratio Lower Upper
43 100
55 0.0 21.5 32.3#



#48
t-1,3-Dichloropropene
Concen: 5.053 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. -0.206 min
Lab File: VN078816.D
Acq: 09 Aug 2023 13:31

Tgt Ion: 75 Resp: 14872
Ion Ratio Lower Upper
75 100
77 152.4 26.1 39.1#

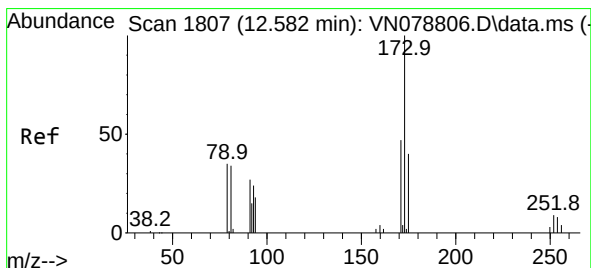
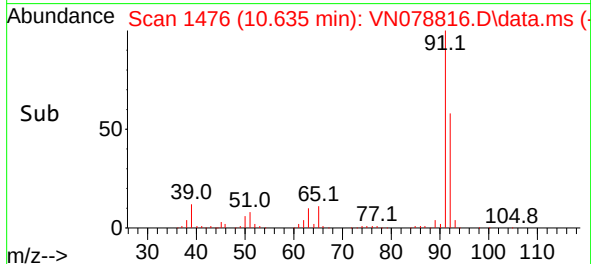
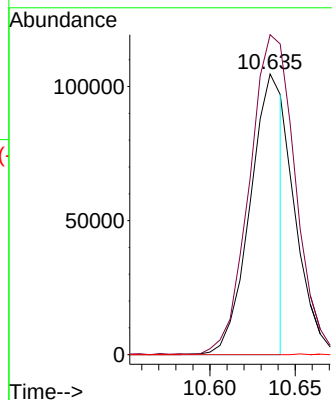
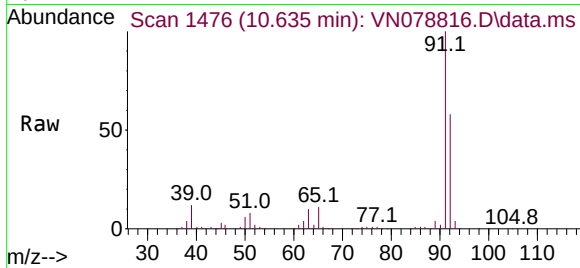




#55
2-Chloroethyl vinyl ether
Concen: 135.895 ug/l
RT: 10.635 min Scan# 14
Delta R.T. 0.470 min
Lab File: VN078816.D
Acq: 09 Aug 2023 13:31

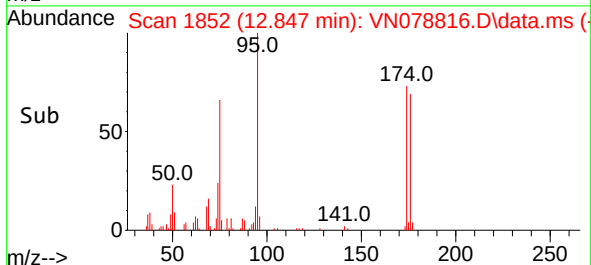
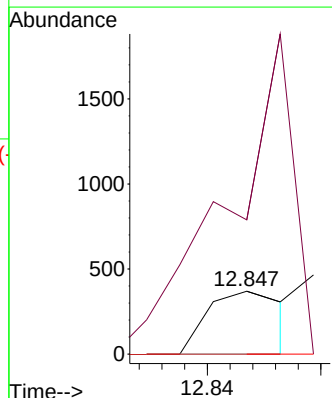
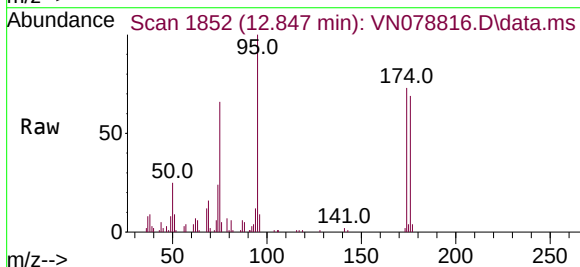
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(JUNE)

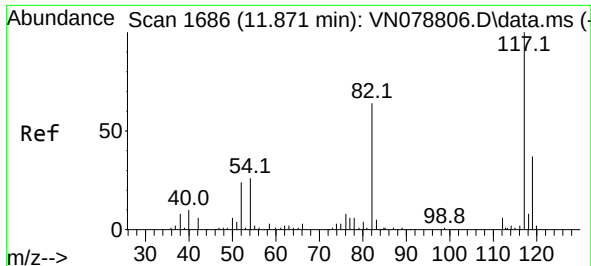
Tgt Ion: 63 Resp: 138092
Ion Ratio Lower Upper
63 100
65 117.9 26.3 39.5#
106 0.0 23.8 35.6#



#56
Bromoform
Concen: 0.270 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.265 min
Lab File: VN078816.D
Acq: 09 Aug 2023 13:31

Tgt Ion:173 Resp: 347
Ion Ratio Lower Upper
173 100
175 436.6 40.7 61.1#
254 0.0 6.5 9.7#





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.871 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN078816.D

Acq: 09 Aug 2023 13:31

Instrument :

MSVOA_N

ClientSampleId :

001-WILLETS-PT-BLVD(JUNE)

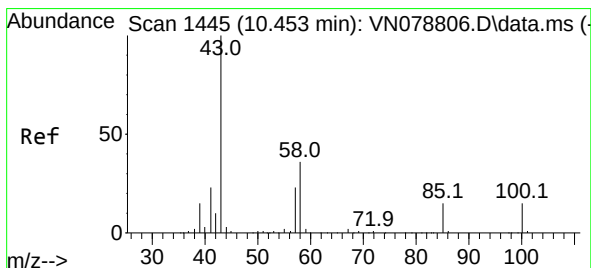
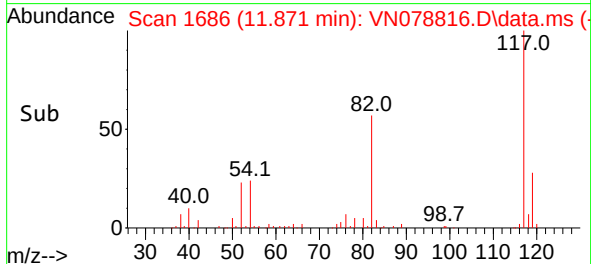
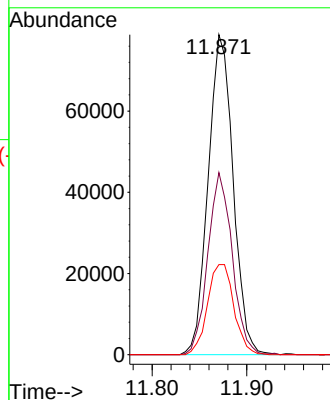
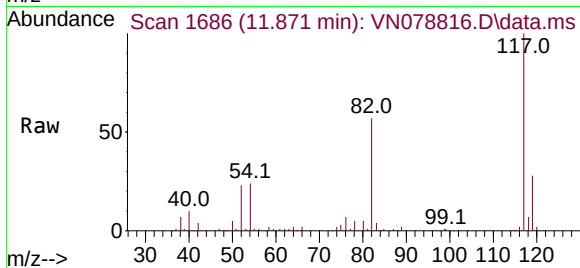
Tgt Ion:117 Resp: 144374

Ion Ratio Lower Upper

117 100

82 55.4 43.9 65.9

119 29.8 26.2 39.4



#58

4-Methyl-2-Pentanone

Concen: 2.680 ug/l

RT: 10.447 min Scan# 1444

Delta R.T. -0.006 min

Lab File: VN078816.D

Acq: 09 Aug 2023 13:31

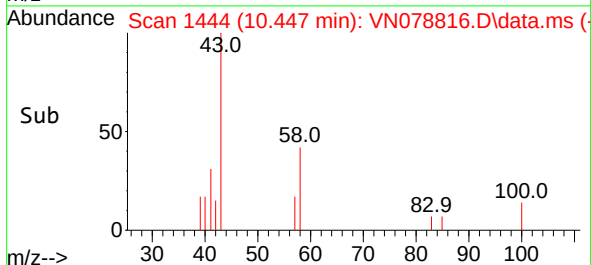
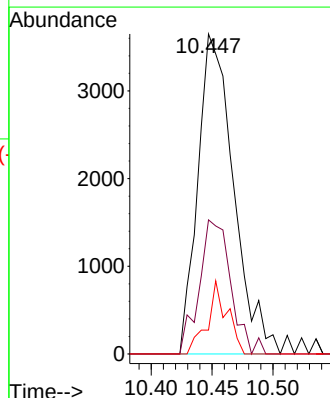
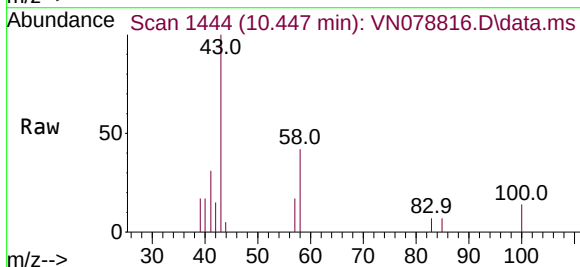
Tgt Ion: 43 Resp: 7438

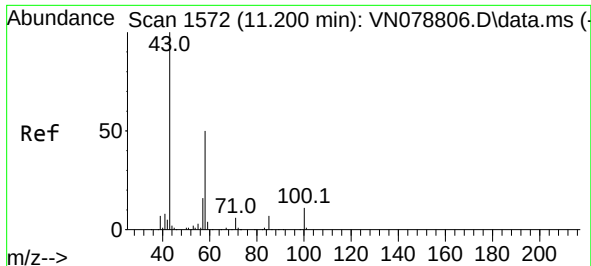
Ion Ratio Lower Upper

43 100

58 36.2 32.6 48.8

85 9.2 16.2 24.2#

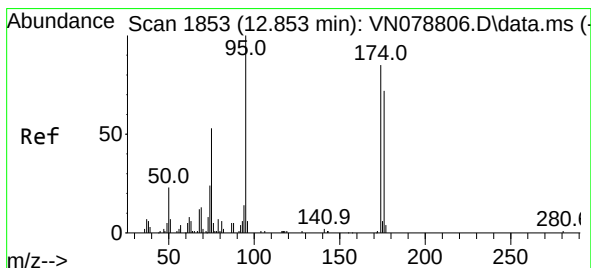
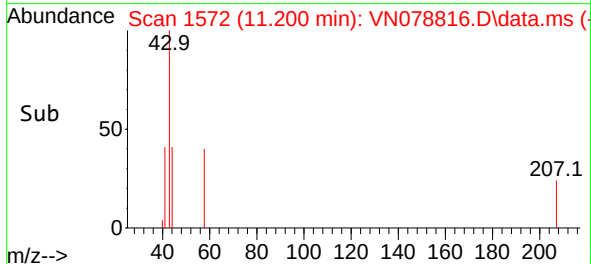
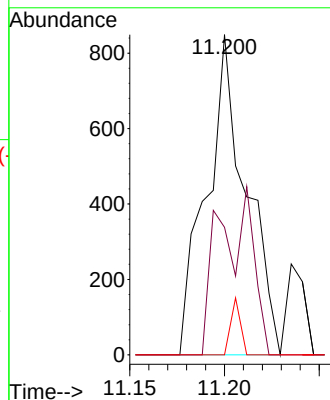
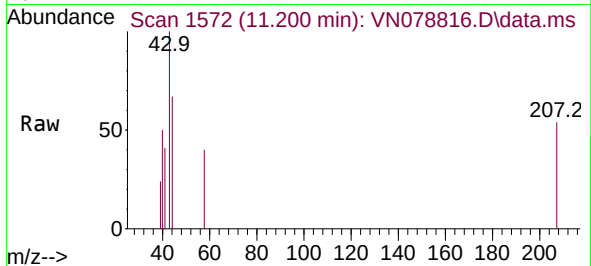




#59
2-Hexanone
Concen: 0.642 ug/l
RT: 11.200 min Scan# 111
Delta R.T. -0.000 min
Lab File: VN078816.D
Acq: 09 Aug 2023 13:31

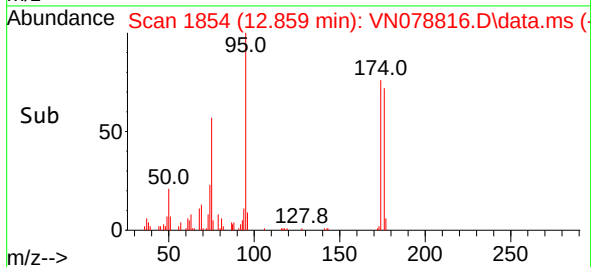
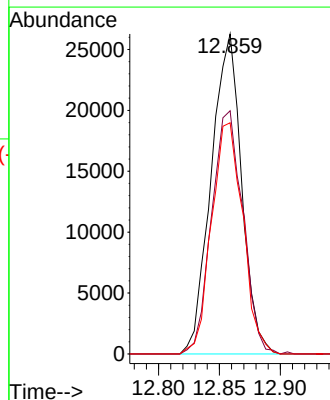
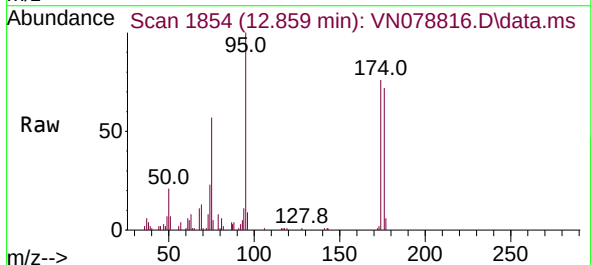
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(JUNE)

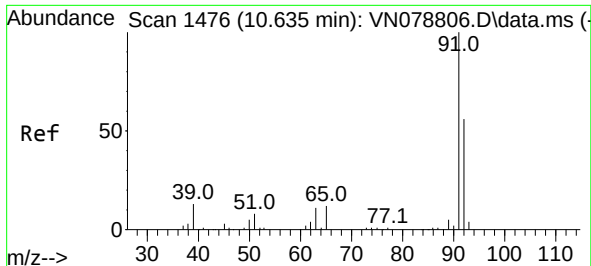
Tgt Ion: 43 Resp: 1238
Ion Ratio Lower Upper
43 100
58 26.5 45.9 68.9#
57 0.0 15.8 23.6#



#60
4-Bromofluorobenzene
Concen: 22.555 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. 0.006 min
Lab File: VN078816.D
Acq: 09 Aug 2023 13:31

Tgt Ion: 95 Resp: 45708
Ion Ratio Lower Upper
95 100
174 77.8 61.7 92.5
176 74.2 58.1 87.1

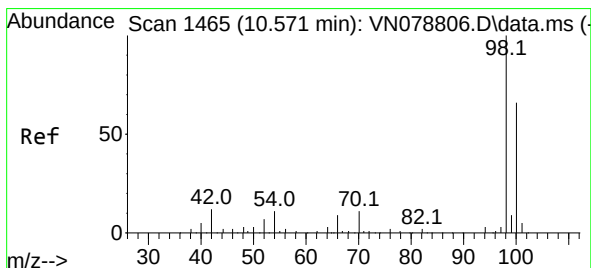
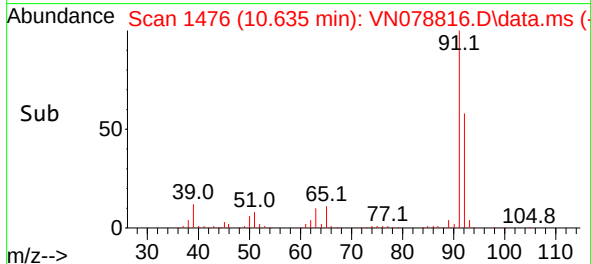
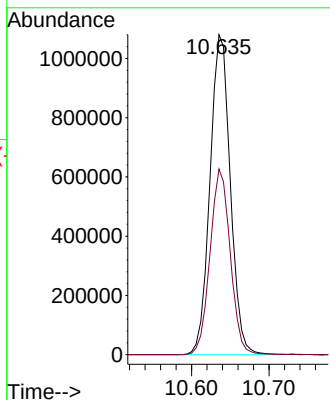
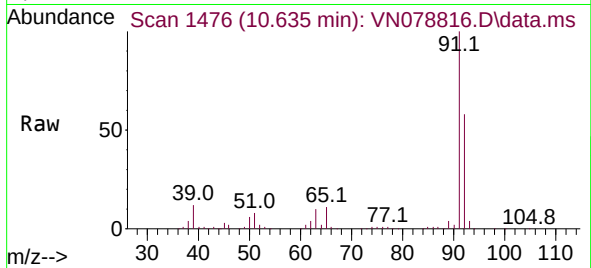




#62
Toluene
Concen: 231.356 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. -0.000 min
Lab File: VN078816.D
Acq: 09 Aug 2023 13:31

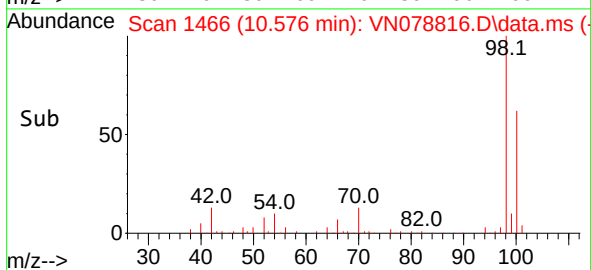
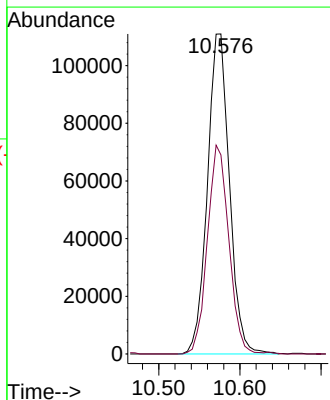
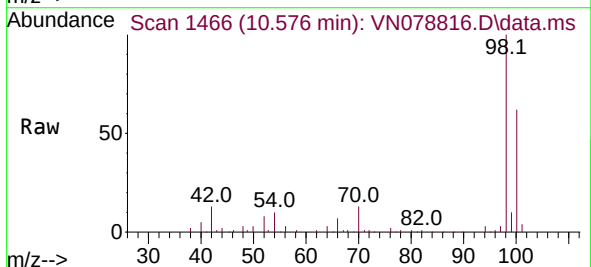
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(JUNE)

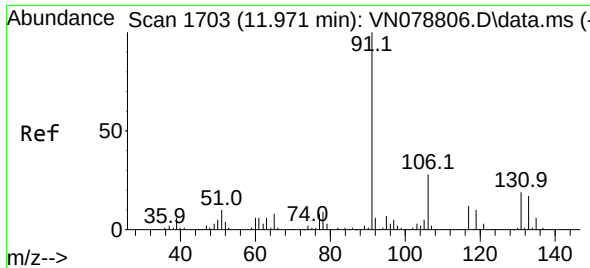
Tgt Ion: 91 Resp: 1966484
Ion Ratio Lower Upper
91 100
92 57.8 45.2 67.8



#63
Toluene-d8
Concen: 29.532 ug/l
RT: 10.576 min Scan# 1466
Delta R.T. 0.006 min
Lab File: VN078816.D
Acq: 09 Aug 2023 13:31

Tgt Ion: 98 Resp: 208931
Ion Ratio Lower Upper
98 100
100 63.5 49.7 74.5

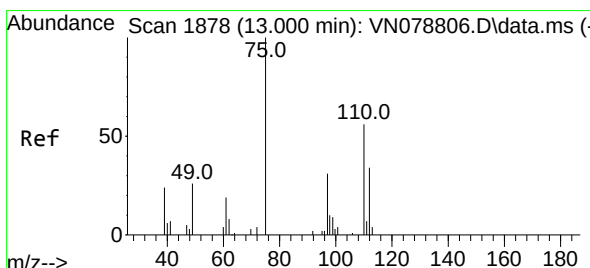
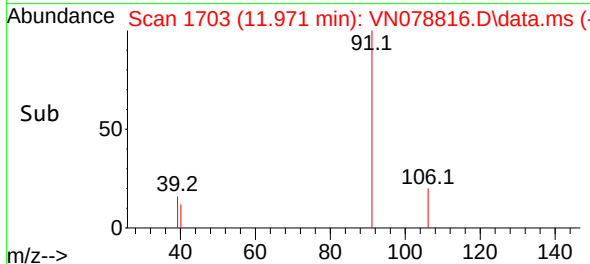
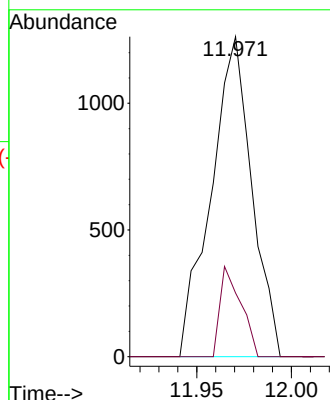
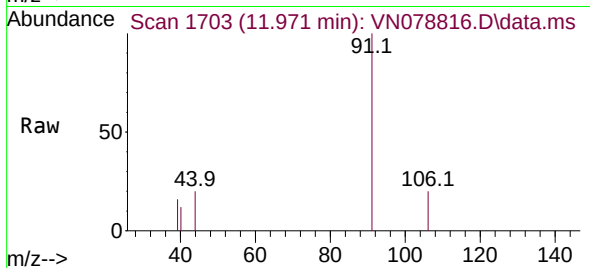




#66
Ethyl Benzene
Concen: 0.214 ug/l
RT: 11.971 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN078816.D
Acq: 09 Aug 2023 13:31

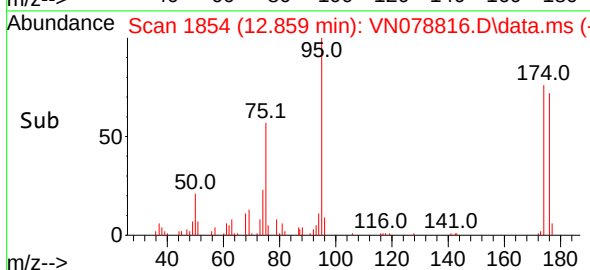
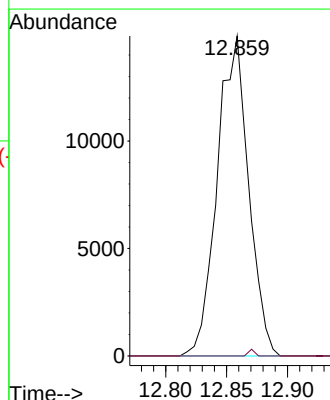
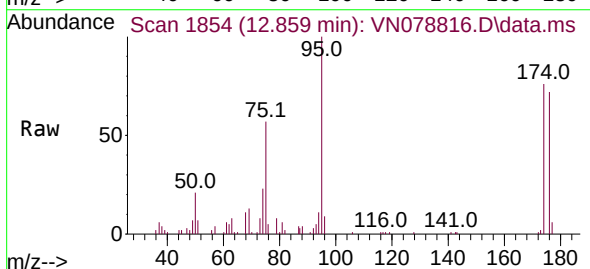
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(JUNE)

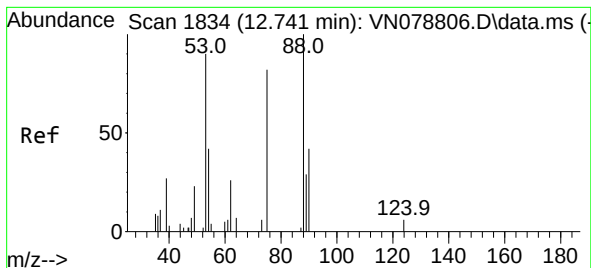
Tgt Ion: 91 Resp: 1889
Ion Ratio Lower Upper
91 100
106 19.9 25.6 38.4#



#72
1,2,3-Trichloropropane
Concen: 11.329 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. -0.141 min
Lab File: VN078816.D
Acq: 09 Aug 2023 13:31

Tgt Ion: 75 Resp: 26668
Ion Ratio Lower Upper
75 100
77 0.0 0.0 387.4

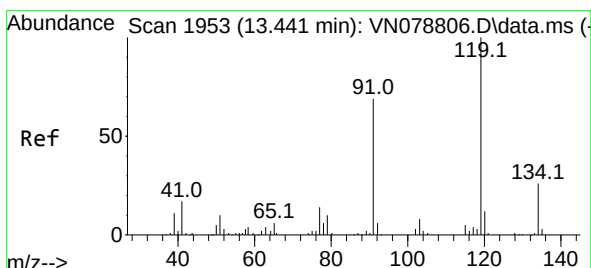
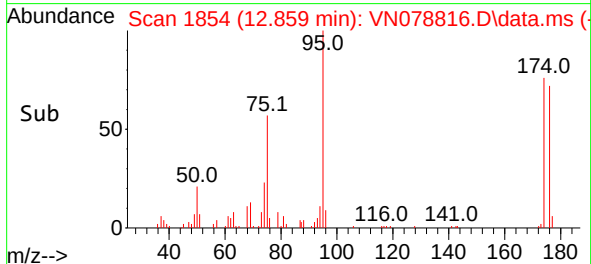
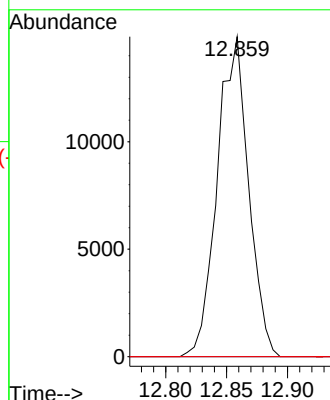
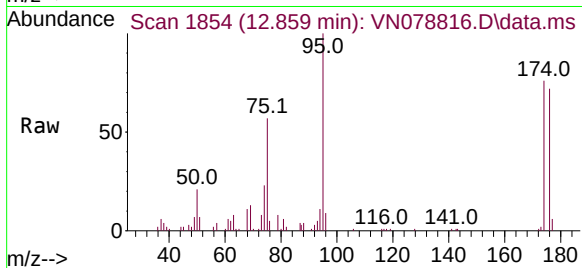




#77
t-1,4-Dichloro-2-butene
Concen: 36.094 ug/l
RT: 12.859 min Scan# 11
Delta R.T. 0.118 min
Lab File: VN078816.D
Acq: 09 Aug 2023 13:31

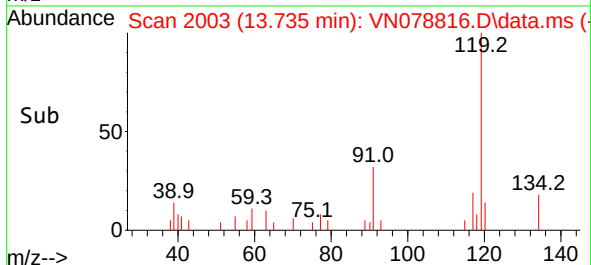
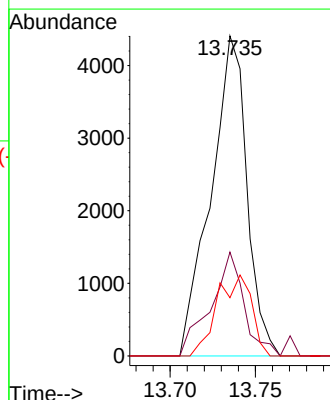
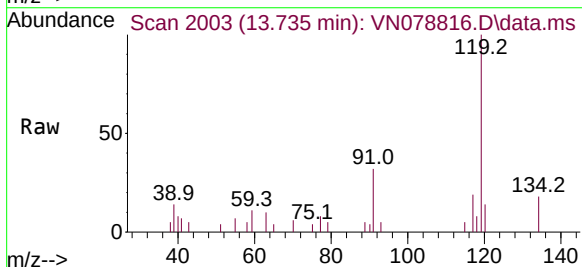
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(JUNE)

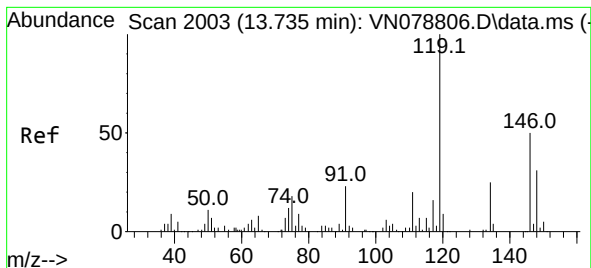
Tgt Ion: 75 Resp: 26668
Ion Ratio Lower Upper
75 100
53 0.0 41.6 124.9#
89 0.0 25.1 75.4#



#79
tert-butylbenzene
Concen: 1.250 ug/l
RT: 13.735 min Scan# 2003
Delta R.T. 0.294 min
Lab File: VN078816.D
Acq: 09 Aug 2023 13:31

Tgt Ion: 119 Resp: 6480
Ion Ratio Lower Upper
119 100
91 30.0 0.0 126.6
134 24.4 0.0 44.0





#82

p-Isopropyltoluene

Concen: 1.192 ug/l

RT: 13.735 min Scan# 2003

Delta R.T. -0.000 min

Lab File: VN078816.D

Acq: 09 Aug 2023 13:31

Instrument :

MSVOA_N

ClientSampleId :

001-WILLETS-PT-BLVD(JUNE)

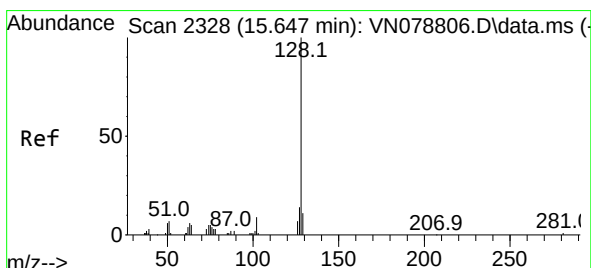
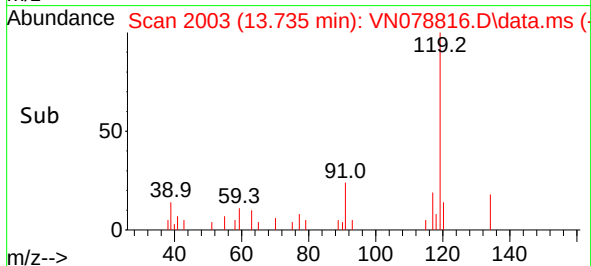
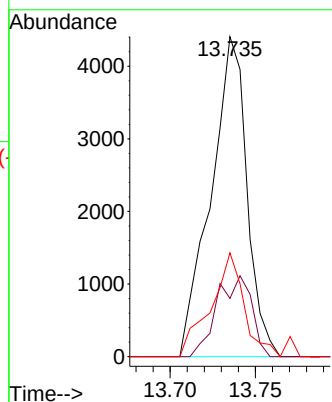
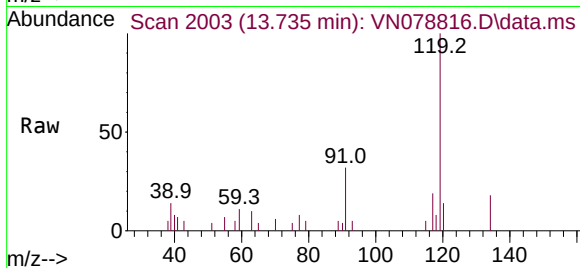
Tgt Ion:119 Resp: 6480

Ion Ratio Lower Upper

119 100

134 24.4 0.0 52.4

91 30.0 0.0 48.2



#91

Naphthalene

Concen: 0.260 ug/l

RT: 15.647 min Scan# 2328

Delta R.T. -0.000 min

Lab File: VN078816.D

Acq: 09 Aug 2023 13:31

Tgt Ion:128 Resp: 652

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

129 0.0 9.0 13.4#

