

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX020725\
 Data File : VX044862.D
 Acq On : 07 Feb 2025 12:39
 Operator : JC/MD
 Sample : Q1316-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 001-WILLETS-PT-BLVD(FEB)

Quant Time: Feb 07 22:13:30 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X011625W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jan 17 01:21:41 2025
 Response via : Initial Calibration

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

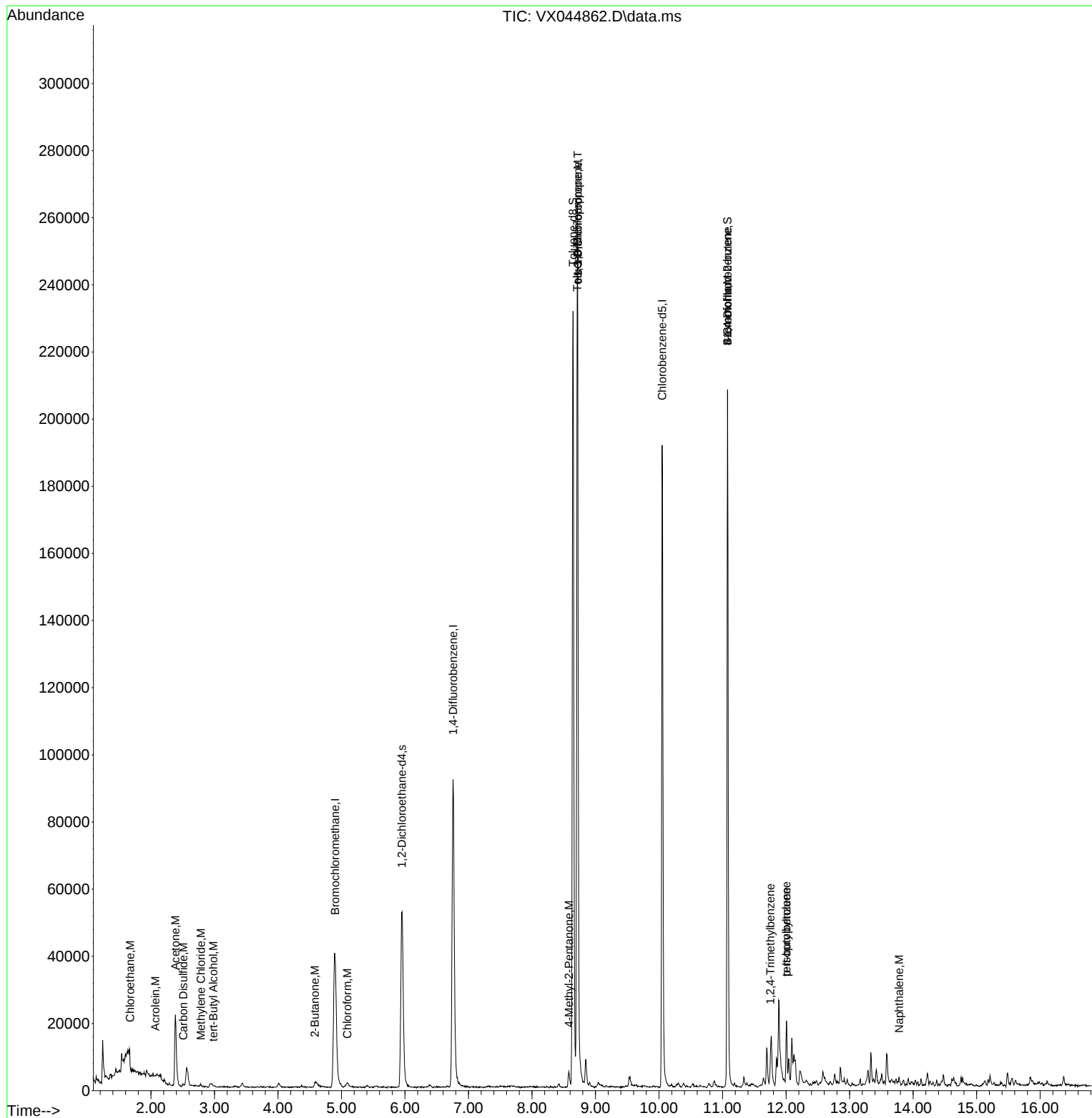
Internal Standards						
1) Bromochloromethane	4.897	128	17567	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	97818	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	89585	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	48817	28.785	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	95.967%
60) 4-Bromofluorobenzene	11.079	95	56135	32.261	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	107.533%
63) Toluene-d8	8.647	98	145836	29.930	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	99.767%
Target Compounds						Qvalue
6) Chloroethane	1.672	64	965	3.786	ug/l	92
13) Acrolein	2.069	56	76	0.363	ug/l	85
15) Acetone	2.386	58	7632	41.204	ug/l	96
16) Carbon Disulfide	2.508	76	795	0.220	ug/l #	75
18) Methylene Chloride	2.788	84	314	0.216	ug/l #	56
23) tert-Butyl Alcohol	2.983	59	275	0.824	ug/l #	100
25) Chloroform	5.093	83	923	0.369	ug/l #	72
30) 2-Butanone	4.580	43	1201	1.285	ug/l #	86
48) t-1,3-Dichloropropene	8.720	75	1139	0.519	ug/l #	1
49) cis-1,3-Dichloropropene	8.720	75	1139	0.484	ug/l #	1
56) Bromoform	11.079	173	392	0.382	ug/l #	1
58) 4-Methyl-2-Pentanone	8.580	43	3341	1.769	ug/l	95
62) Toluene	8.714	91	172750	29.285	ug/l	98
77) t-1,4-Dichloro-2-butene	11.079	75	29899	37.427	ug/l #	13
79) tert-butylbenzene	12.006	119	8192	1.645	ug/l	67
80) 1,2,4-Trimethylbenzene	11.756	105	1818	0.372	ug/l	92
82) p-Isopropyltoluene	12.006	119	8192	1.673	ug/l	96
91) Naphthalene	13.780	128	1669	0.291	ug/l #	90

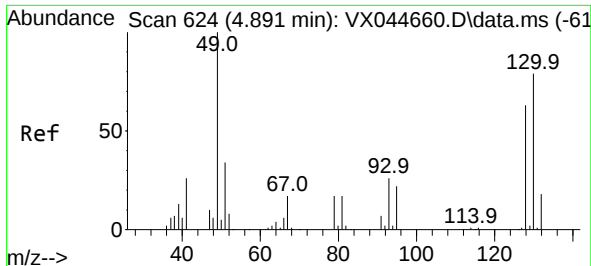
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 4.897 min Scan# 61

Delta R.T. 0.006 min

Lab File: VX044862.D

Acq: 07 Feb 2025 12:39

Instrument :

MSVOA_X

ClientSampleId :

001-WILLETS-PT-BLVD(FEB)

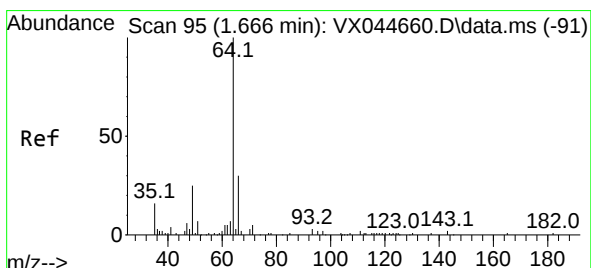
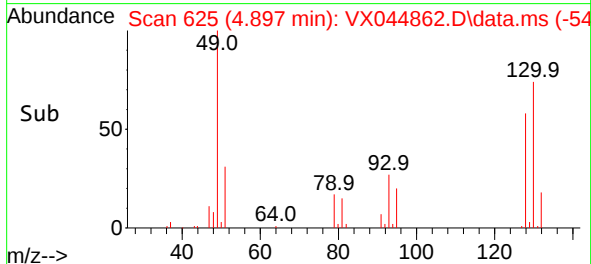
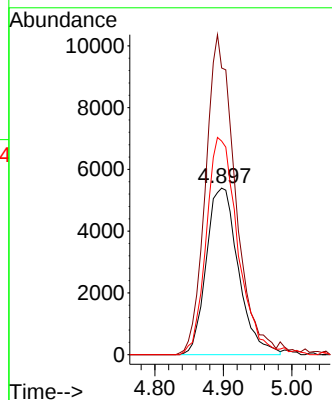
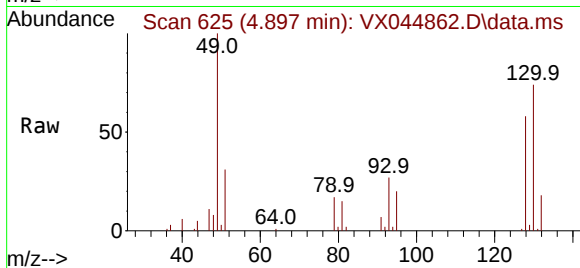
Tgt Ion:128 Resp: 17567

Ion Ratio Lower Upper

128 100

49 177.1 0.0 411.5

130 127.7 0.0 324.3



#6

Chloroethane

Concen: 3.786 ug/l

RT: 1.672 min Scan# 96

Delta R.T. 0.006 min

Lab File: VX044862.D

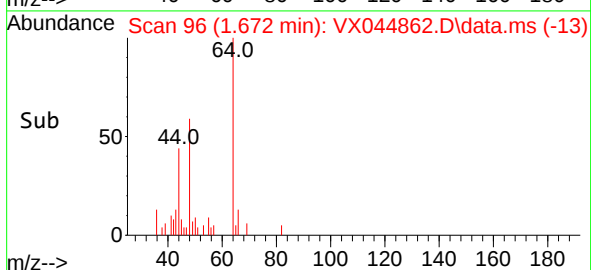
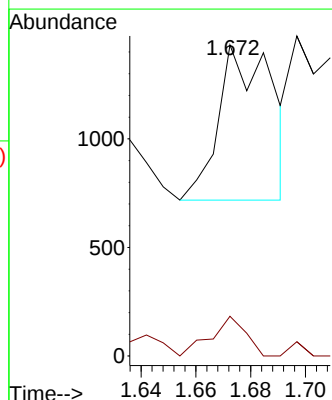
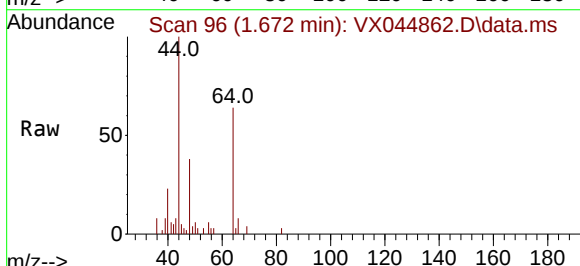
Acq: 07 Feb 2025 12:39

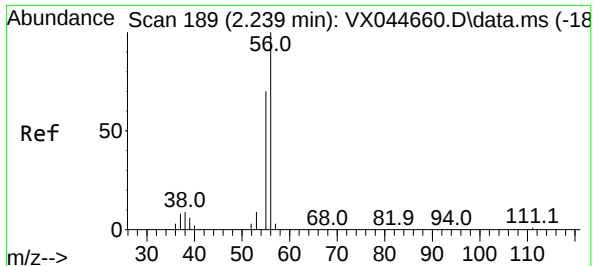
Tgt Ion: 64 Resp: 965

Ion Ratio Lower Upper

64 100

66 25.6 23.8 35.6

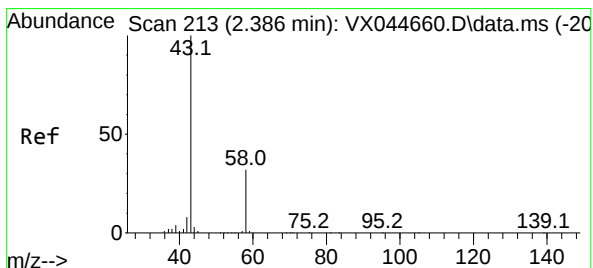
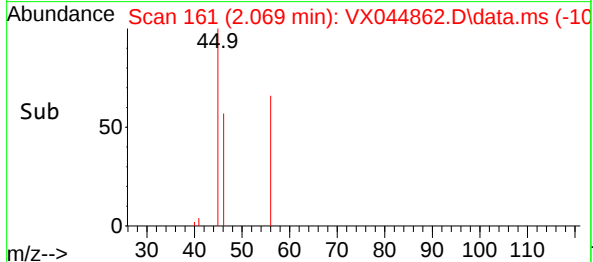
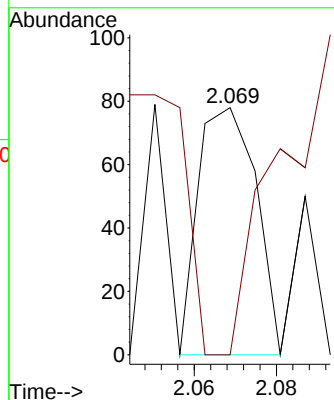
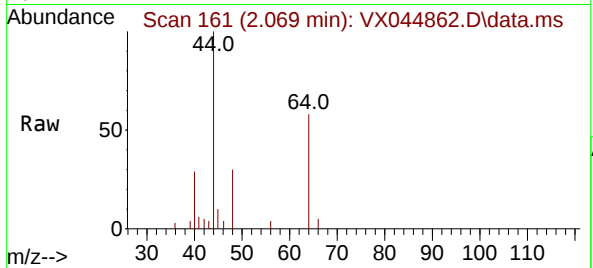




#13
Acrolein
Concen: 0.363 ug/l
RT: 2.069 min Scan# 11
Delta R.T. -0.171 min
Lab File: VX044862.D
Acq: 07 Feb 2025 12:39

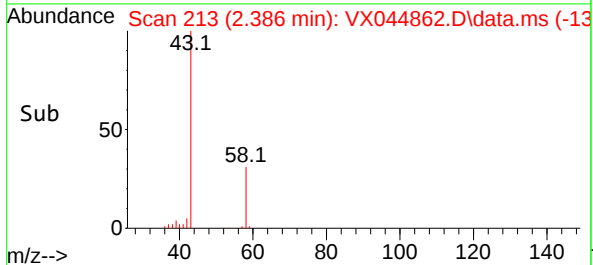
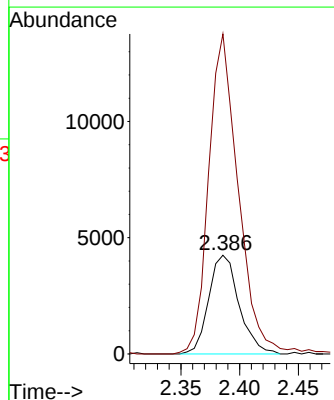
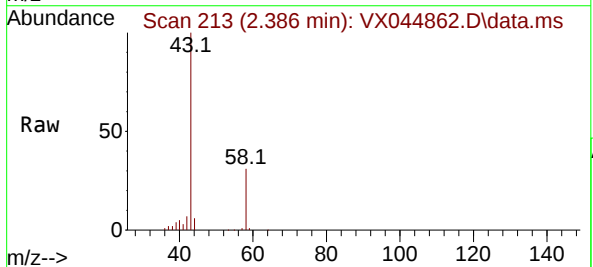
Instrument :
MSVOA_X
ClientSampleId :
001-WILLETS-PT-BLVD(FEB)

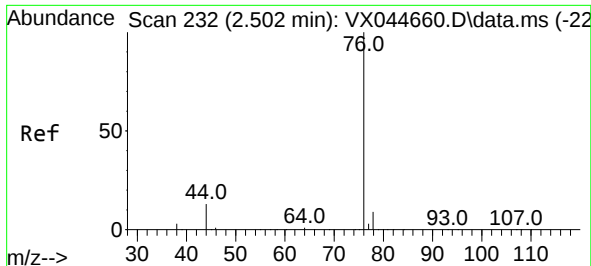
Tgt Ion: 56 Resp: 76
Ion Ratio Lower Upper
56 100
55 84.2 57.5 86.3



#15
Acetone
Concen: 41.204 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX044862.D
Acq: 07 Feb 2025 12:39

Tgt Ion: 58 Resp: 7632
Ion Ratio Lower Upper
58 100
43 322.4 251.0 376.4

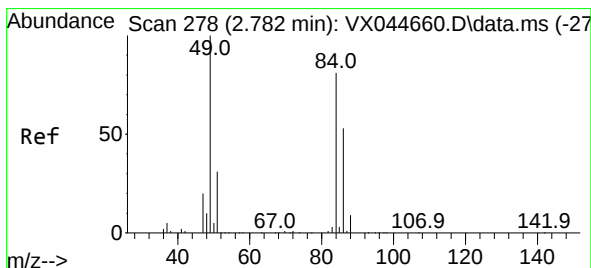
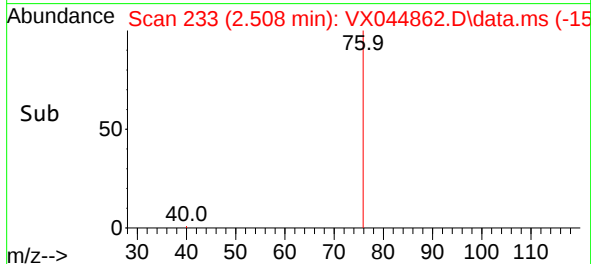
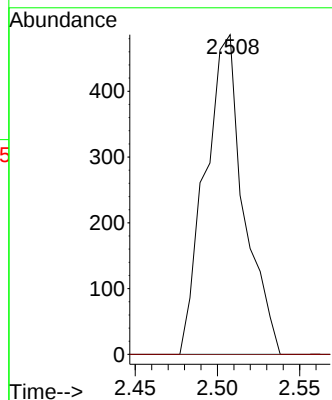
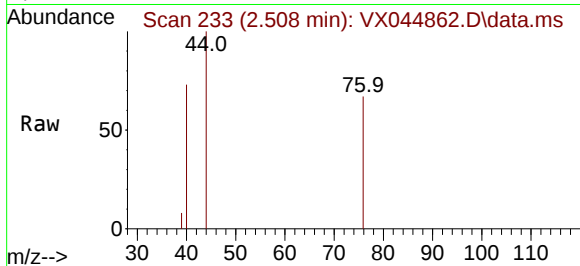




#16
Carbon Disulfide
Concen: 0.220 ug/l
RT: 2.508 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX044862.D
Acq: 07 Feb 2025 12:39

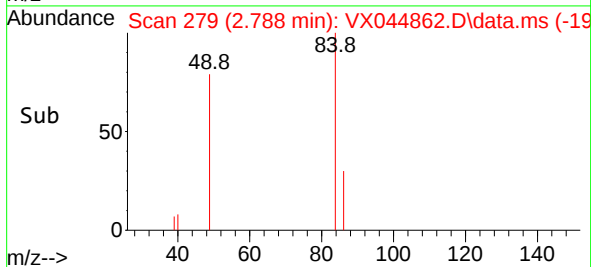
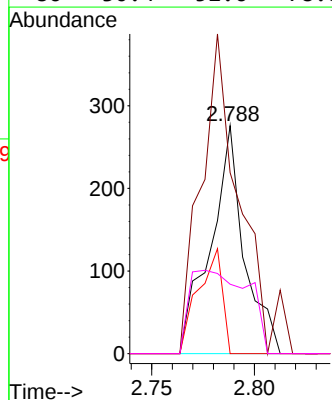
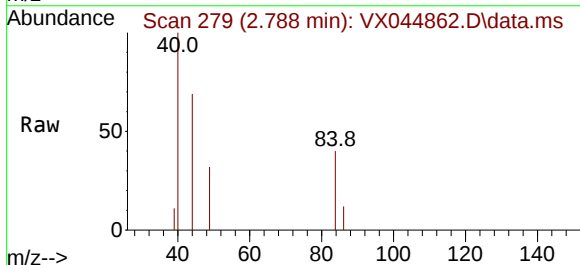
Instrument :
MSVOA_X
ClientSampleId :
001-WILLETS-PT-BLVD(FEB)

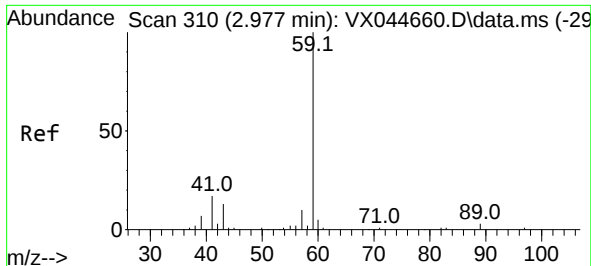
Tgt Ion: 76 Resp: 795
Ion Ratio Lower Upper
76 100
78 0.0 7.3 10.9#



#18
Methylene Chloride
Concen: 0.216 ug/l
RT: 2.788 min Scan# 279
Delta R.T. 0.006 min
Lab File: VX044862.D
Acq: 07 Feb 2025 12:39

Tgt Ion: 84 Resp: 314
Ion Ratio Lower Upper
84 100
49 79.3 98.3 147.5#
51 0.0 30.6 46.0#
86 30.4 52.6 78.8#





#23

tert-Butyl Alcohol

Concen: 0.824 ug/l

RT: 2.983 min Scan# 311

Delta R.T. 0.006 min

Lab File: VX044862.D

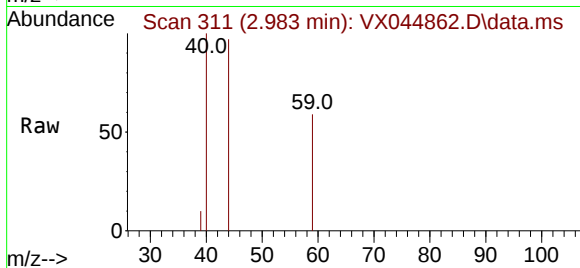
Acq: 07 Feb 2025 12:39

Instrument :

MSVOA_X

ClientSampleId :

001-WILLETS-PT-BLVD(FEB)

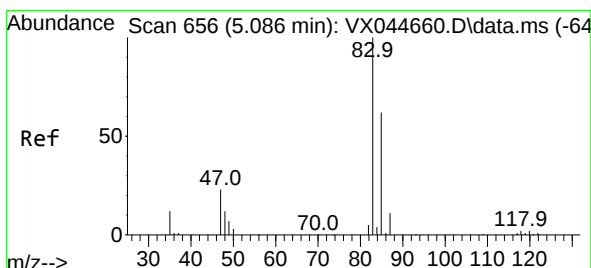
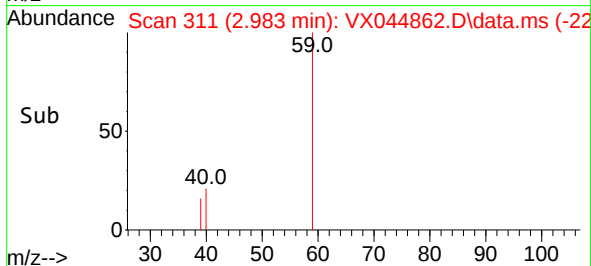
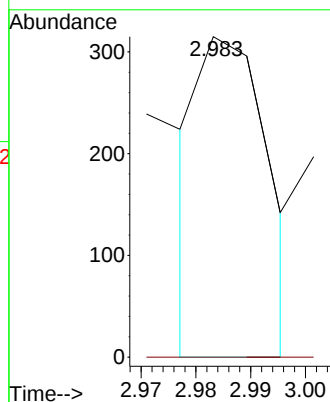


Tgt Ion: 59 Resp: 275

Ion Ratio Lower Upper

59 100

52 0.0 0.1 0.1#



#25

Chloroform

Concen: 0.369 ug/l

RT: 5.093 min Scan# 657

Delta R.T. 0.006 min

Lab File: VX044862.D

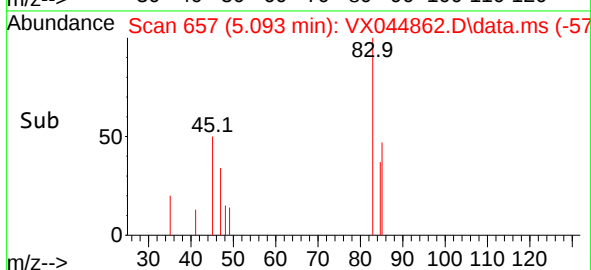
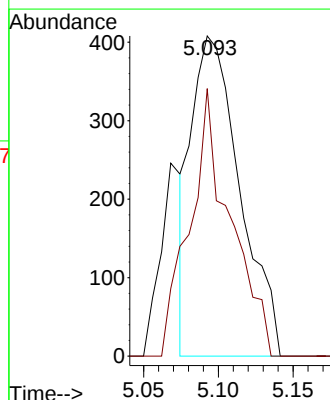
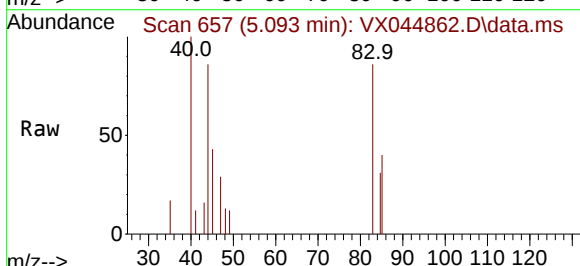
Acq: 07 Feb 2025 12:39

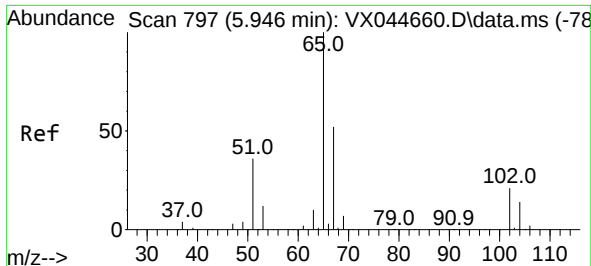
Tgt Ion: 83 Resp: 923

Ion Ratio Lower Upper

83 100

85 83.6 49.4 74.2#





#27

1,2-Dichloroethane-d4

Concen: 28.785 ug/l

RT: 5.952 min Scan# 797

Delta R.T. 0.006 min

Lab File: VX044862.D

Acq: 07 Feb 2025 12:39

Instrument :

MSVOA_X

ClientSampleId :

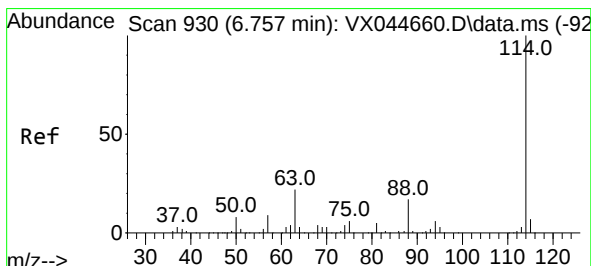
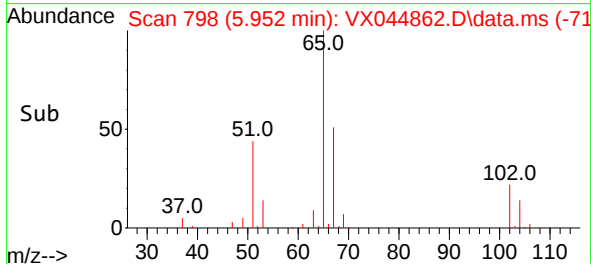
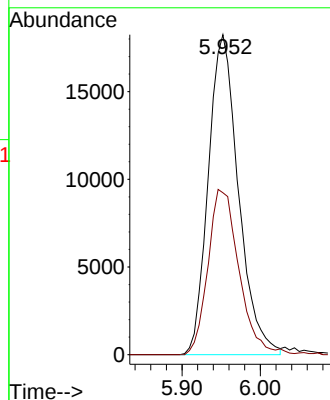
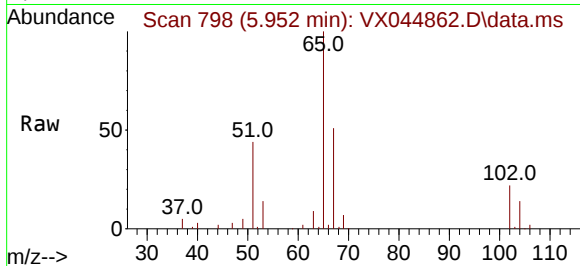
001-WILLETS-PT-BLVD(FEB)

Tgt Ion: 65 Resp: 48817

Ion Ratio Lower Upper

65 100

67 52.6 41.4 62.2



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. 0.000 min

Lab File: VX044862.D

Acq: 07 Feb 2025 12:39

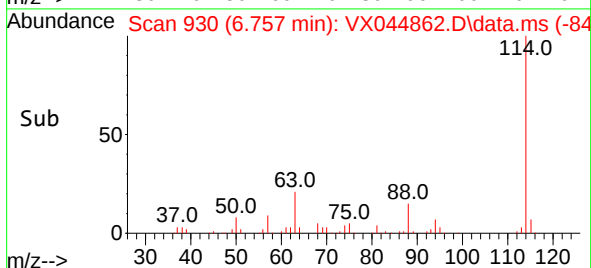
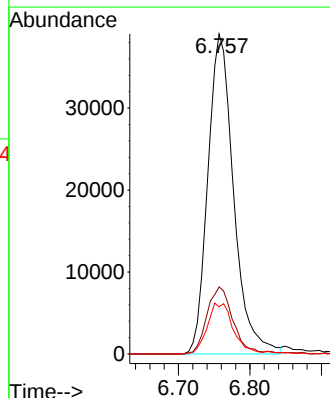
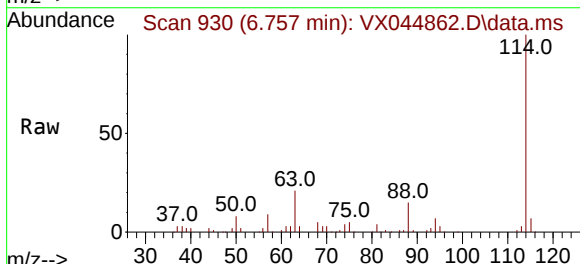
Tgt Ion: 114 Resp: 97818

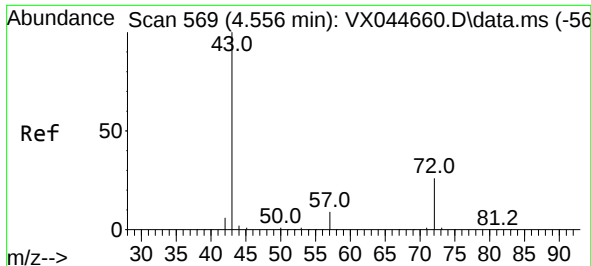
Ion Ratio Lower Upper

114 100

63 20.8 16.6 24.8

88 15.9 13.4 20.2

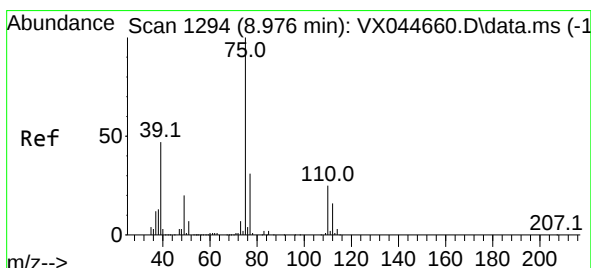
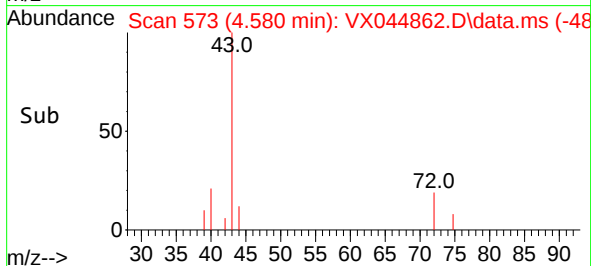
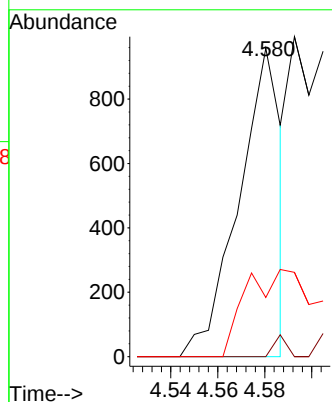
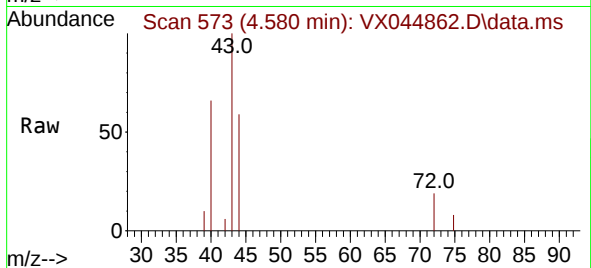




#30
2-Butanone
Concen: 1.285 ug/l
RT: 4.580 min Scan# 51
Delta R.T. 0.024 min
Lab File: VX044862.D
Acq: 07 Feb 2025 12:39

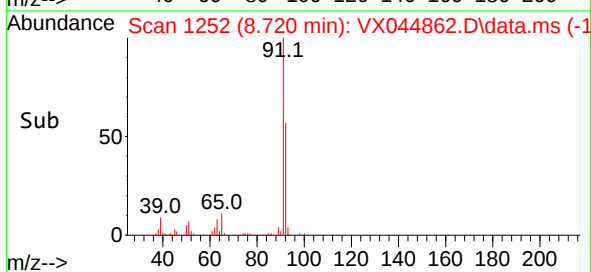
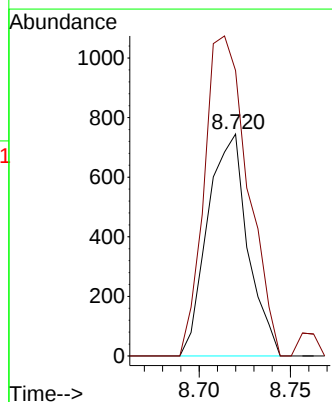
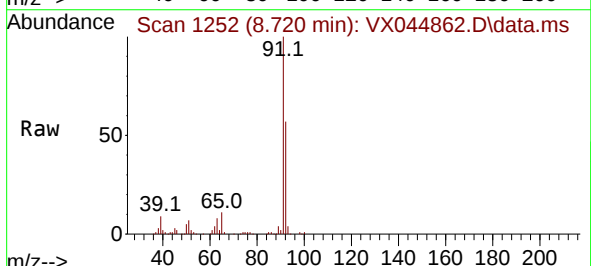
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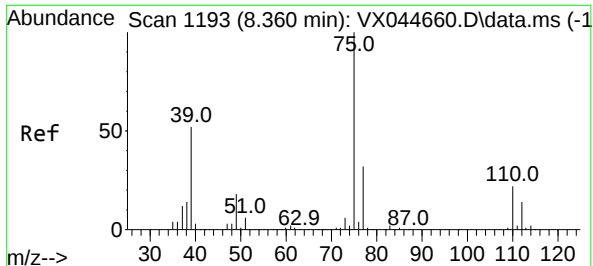
Tgt Ion: 43 Resp: 1201
Ion Ratio Lower Upper
43 100
57 0.0 6.4 9.6#
72 21.1 21.5 32.3#



#48
t-1,3-Dichloropropene
Concen: 0.519 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. -0.256 min
Lab File: VX044862.D
Acq: 07 Feb 2025 12:39

Tgt Ion: 75 Resp: 1139
Ion Ratio Lower Upper
75 100
77 128.6 24.8 37.2#





#49

cis-1,3-Dichloropropene

Concen: 0.484 ug/l

RT: 8.720 min Scan# 1193

Delta R.T. 0.360 min

Lab File: VX044862.D

Acq: 07 Feb 2025 12:39

Instrument :

MSVOA_X

ClientSampleId :

001-WILLETS-PT-BLVD(FEB)

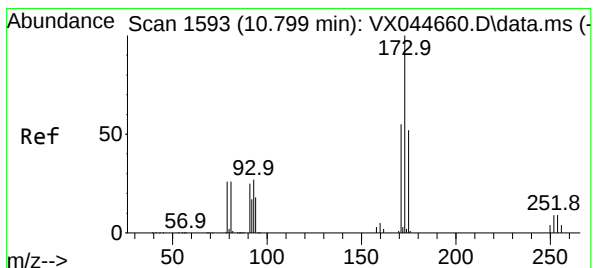
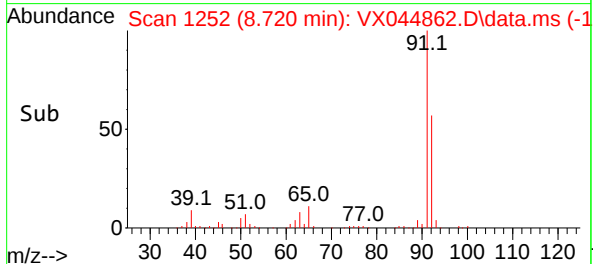
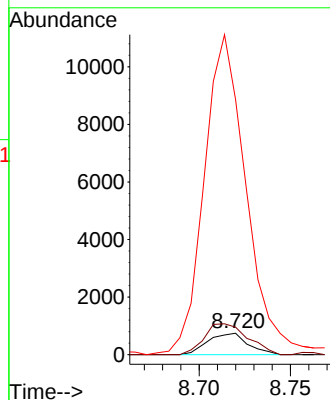
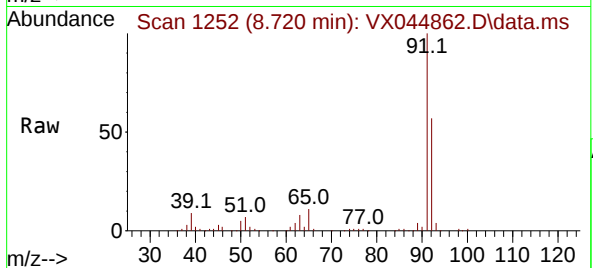
Tgt Ion: 75 Resp: 1139

Ion Ratio Lower Upper

75 100

77 128.6 25.4 38.0#

39 1111.0 41.4 62.0#



#56

Bromoform

Concen: 0.382 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.280 min

Lab File: VX044862.D

Acq: 07 Feb 2025 12:39

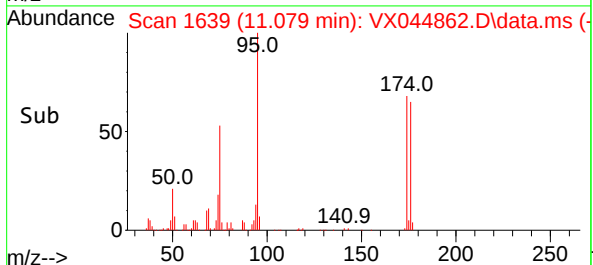
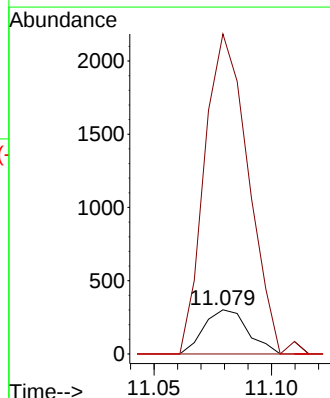
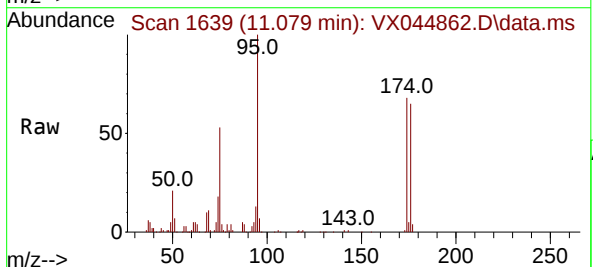
Tgt Ion:173 Resp: 392

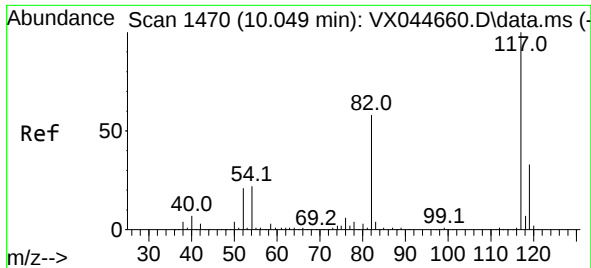
Ion Ratio Lower Upper

173 100

175 719.9 39.0 58.6#

254 0.0 6.5 9.7#

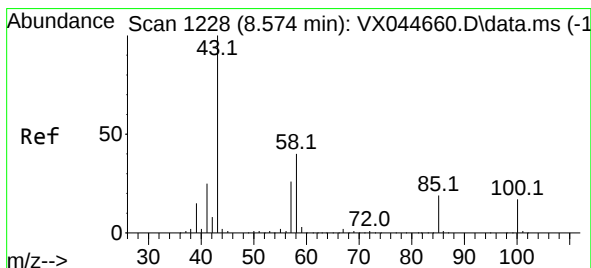
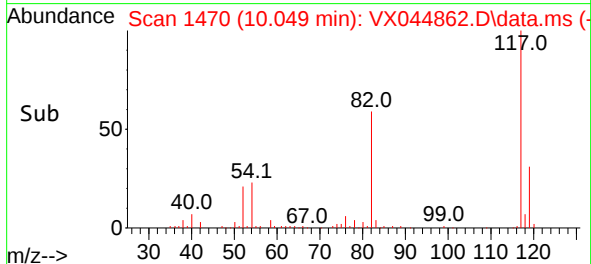
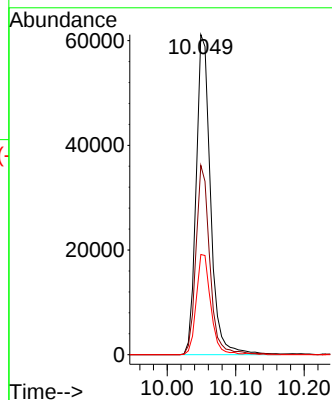
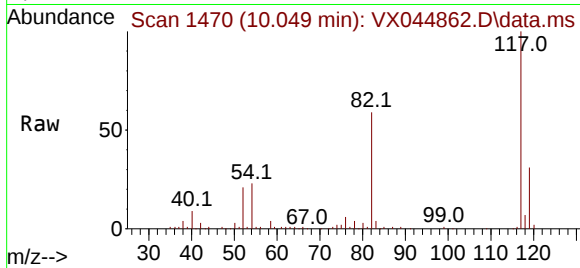




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX044862.D
Acq: 07 Feb 2025 12:39

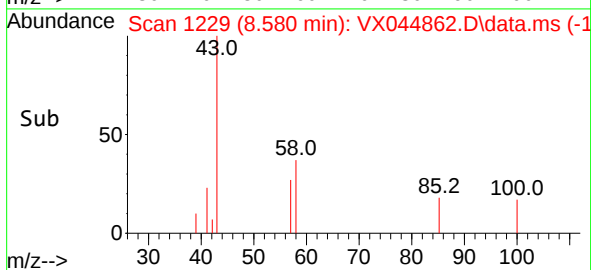
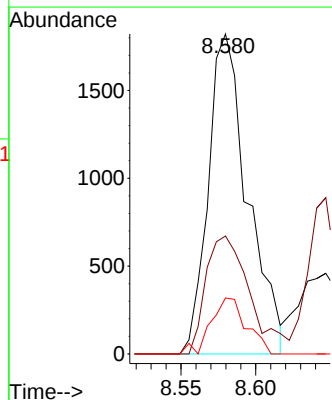
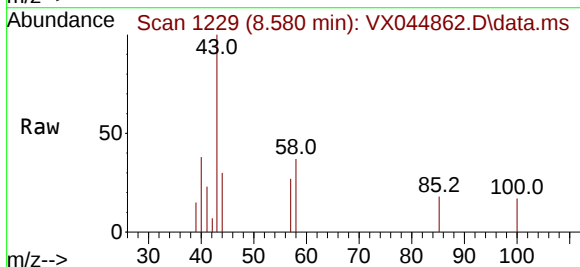
Instrument :
MSVOA_X
ClientSampleId :
001-WILLETS-PT-BLVD(FEB)

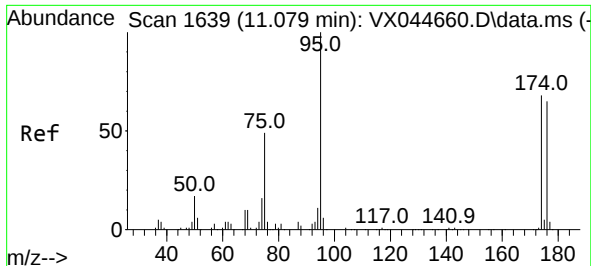
Tgt Ion:117 Resp: 89585
Ion Ratio Lower Upper
117 100
82 56.1 45.8 68.6
119 31.4 25.8 38.6



#58
4-Methyl-2-Pentanone
Concen: 1.769 ug/l
RT: 8.580 min Scan# 1229
Delta R.T. 0.006 min
Lab File: VX044862.D
Acq: 07 Feb 2025 12:39

Tgt Ion: 43 Resp: 3341
Ion Ratio Lower Upper
43 100
58 37.4 31.7 47.5
85 15.1 15.0 22.6

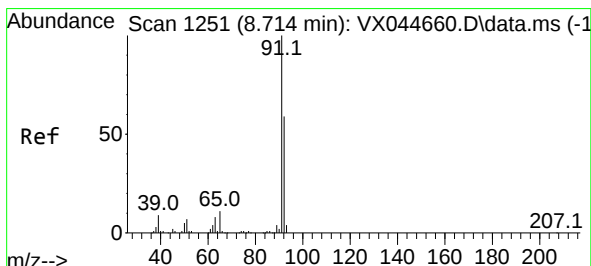
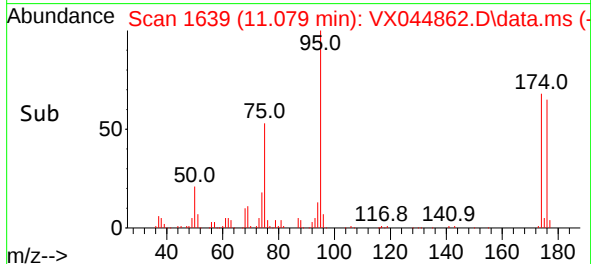
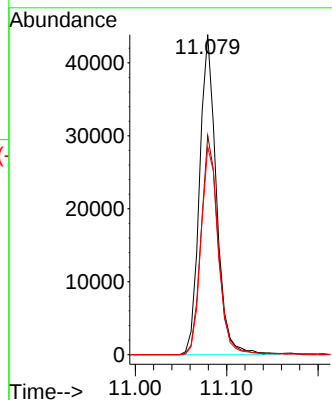
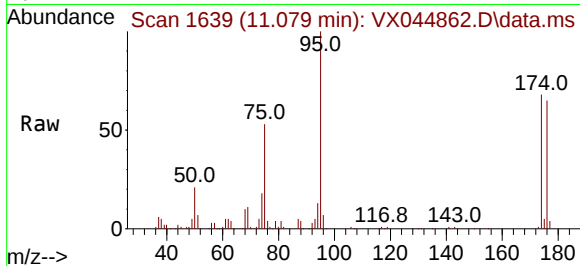




#60
4-Bromofluorobenzene
Concen: 32.261 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044862.D
Acq: 07 Feb 2025 12:39

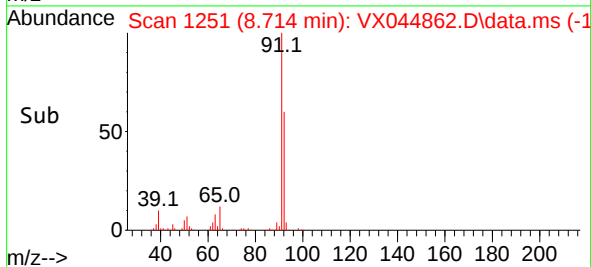
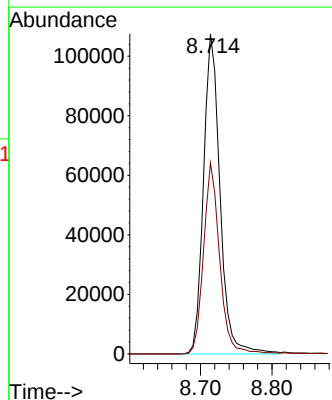
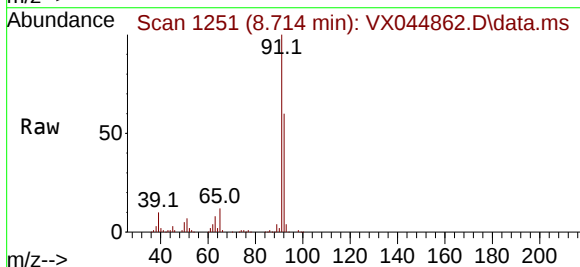
Instrument :
MSVOA_X
ClientSampleId :
001-WILLETS-PT-BLVD(FEB)

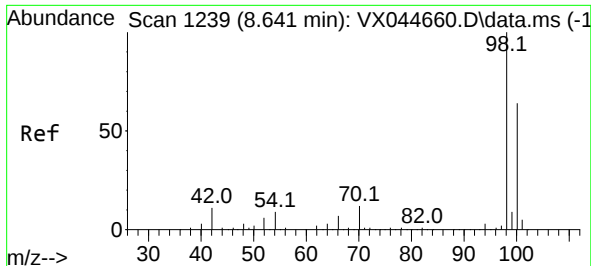
Tgt Ion: 95 Resp: 56135
Ion Ratio Lower Upper
95 100
174 69.5 54.6 81.8
176 66.6 52.8 79.2



#62
Toluene
Concen: 29.285 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044862.D
Acq: 07 Feb 2025 12:39

Tgt Ion: 91 Resp: 172750
Ion Ratio Lower Upper
91 100
92 57.5 47.3 70.9

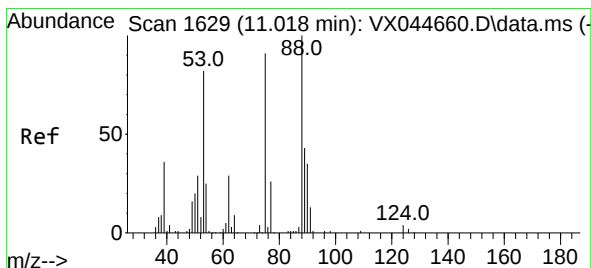
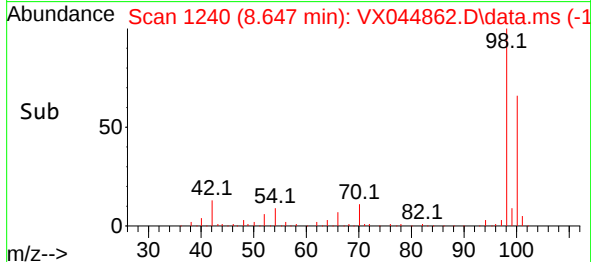
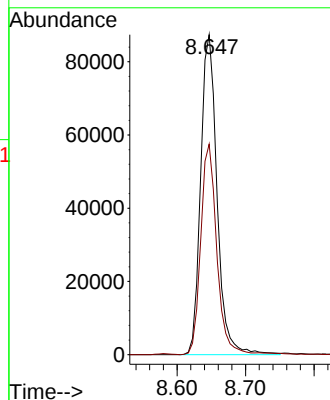
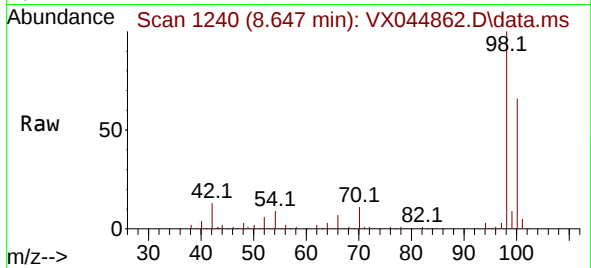




#63
Toluene-d8
Concen: 29.930 ug/l
RT: 8.647 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX044862.D
Acq: 07 Feb 2025 12:39

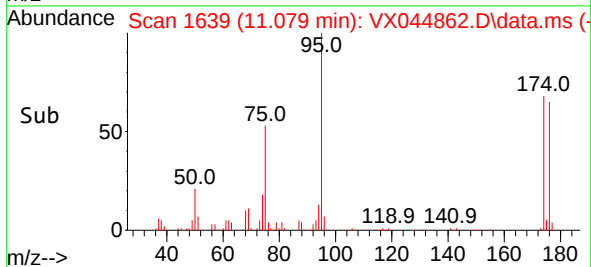
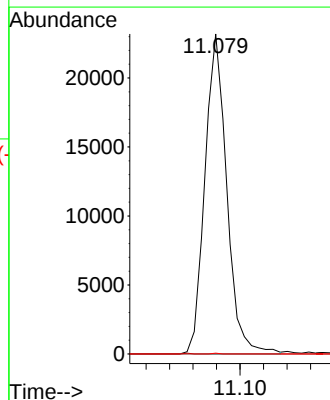
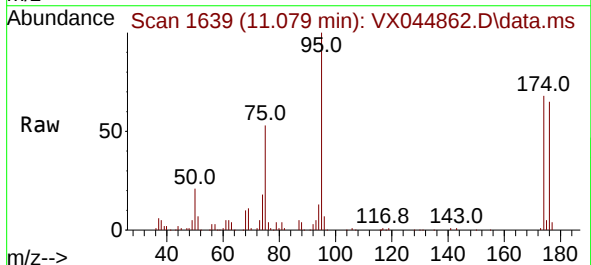
Instrument :
MSVOA_X
ClientSampleId :
001-WILLETS-PT-BLVD(FEB)

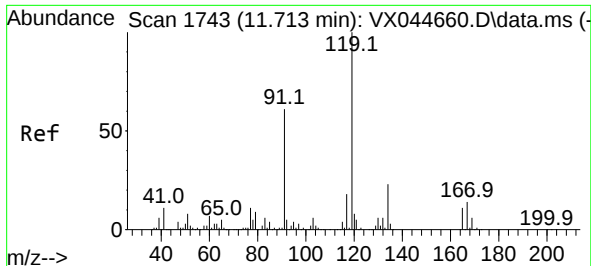
Tgt Ion: 98 Resp: 145836
Ion Ratio Lower Upper
98 100
100 64.1 53.6 80.4



#77
t-1,4-Dichloro-2-butene
Concen: 37.427 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX044862.D
Acq: 07 Feb 2025 12:39

Tgt Ion: 75 Resp: 29899
Ion Ratio Lower Upper
75 100
53 0.0 45.3 135.9#
89 0.3 23.8 71.2#

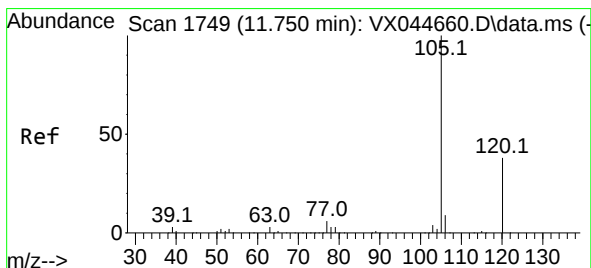
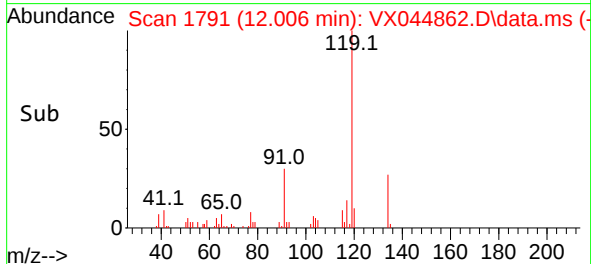
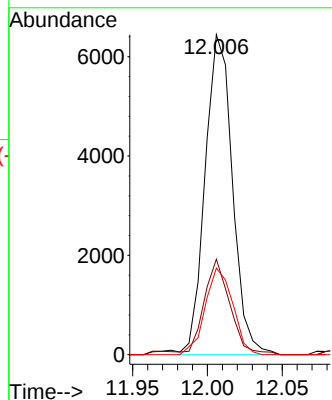
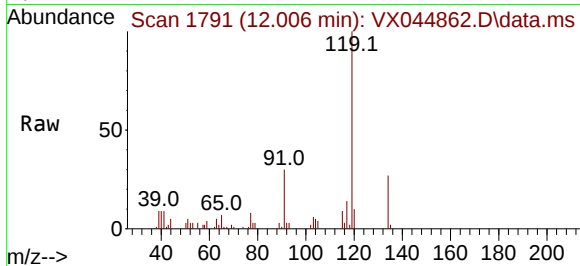




#79
tert-butylbenzene
Concen: 1.645 ug/l
RT: 12.006 min Scan# 11
Delta R.T. 0.293 min
Lab File: VX044862.D
Acq: 07 Feb 2025 12:39

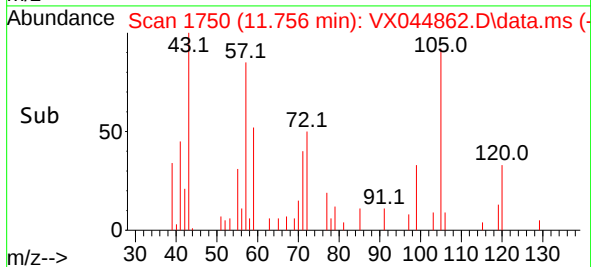
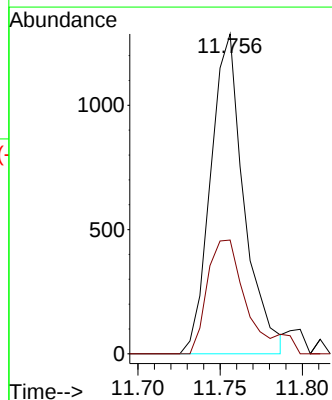
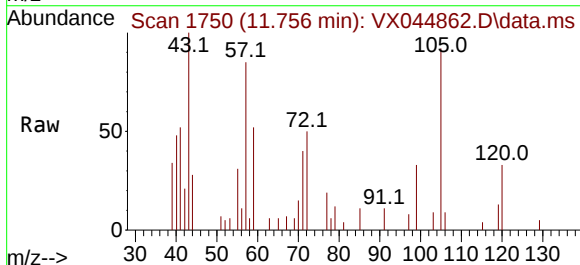
Instrument :
MSVOA_X
ClientSampleId :
001-WILLETS-PT-BLVD(FEB)

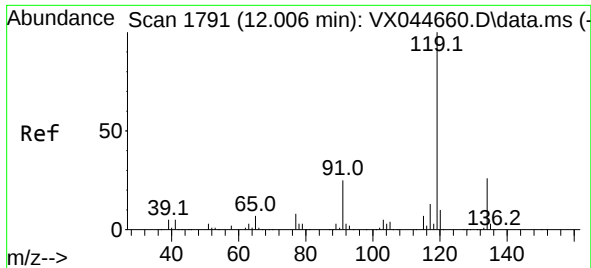
Tgt Ion:119 Resp: 8192
Ion Ratio Lower Upper
119 100
91 28.1 0.0 119.0
134 27.3 0.0 44.8



#80
1,2,4-Trimethylbenzene
Concen: 0.372 ug/l
RT: 11.756 min Scan# 1750
Delta R.T. 0.006 min
Lab File: VX044862.D
Acq: 07 Feb 2025 12:39

Tgt Ion:105 Resp: 1818
Ion Ratio Lower Upper
105 100
120 39.3 0.0 88.4

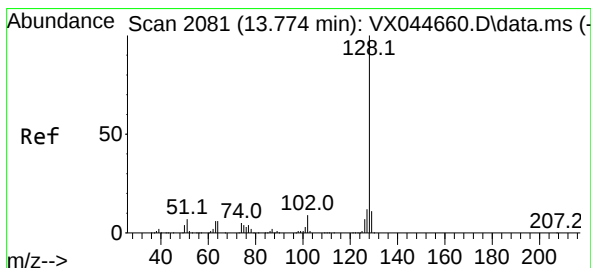
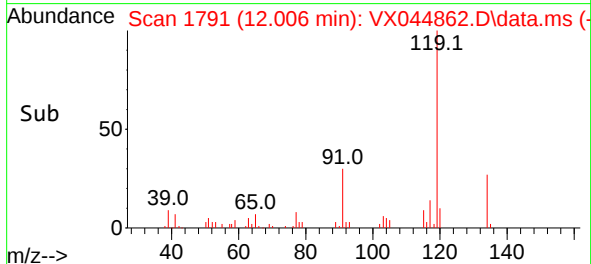
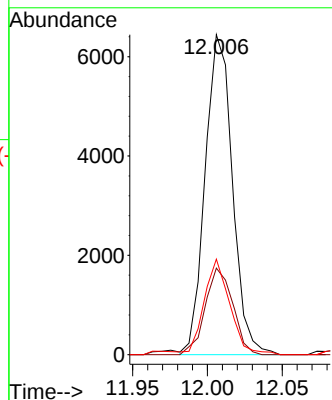
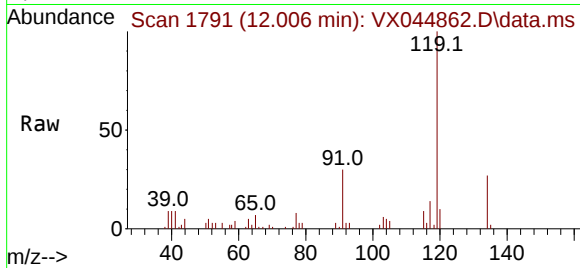




#82
p-Isopropyltoluene
Concen: 1.673 ug/l
RT: 12.006 min Scan# 1192
Delta R.T. 0.000 min
Lab File: VX044862.D
Acq: 07 Feb 2025 12:39

Instrument :
MSVOA_X
ClientSampleId :
001-WILLETS-PT-BLVD(FEB)

Tgt Ion:	119	Resp:	8192
Ion	Ratio	Lower	Upper
119	100		
134	27.3	0.0	52.2
91	28.1	0.0	50.2



#91
Naphthalene
Concen: 0.291 ug/l
RT: 13.780 min Scan# 2082
Delta R.T. 0.006 min
Lab File: VX044862.D
Acq: 07 Feb 2025 12:39

Tgt Ion:	128	Resp:	1669
Ion	Ratio	Lower	Upper
128	100		
127	9.0	10.2	15.4#
129	7.5	9.0	13.6#

