

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080923\
 Data File : VN078822.D
 Acq On : 09 Aug 2023 16:13
 Operator : JC\MD
 Sample : 03940-01DL 5X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

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

Quant Time: Aug 10 05:30:30 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)

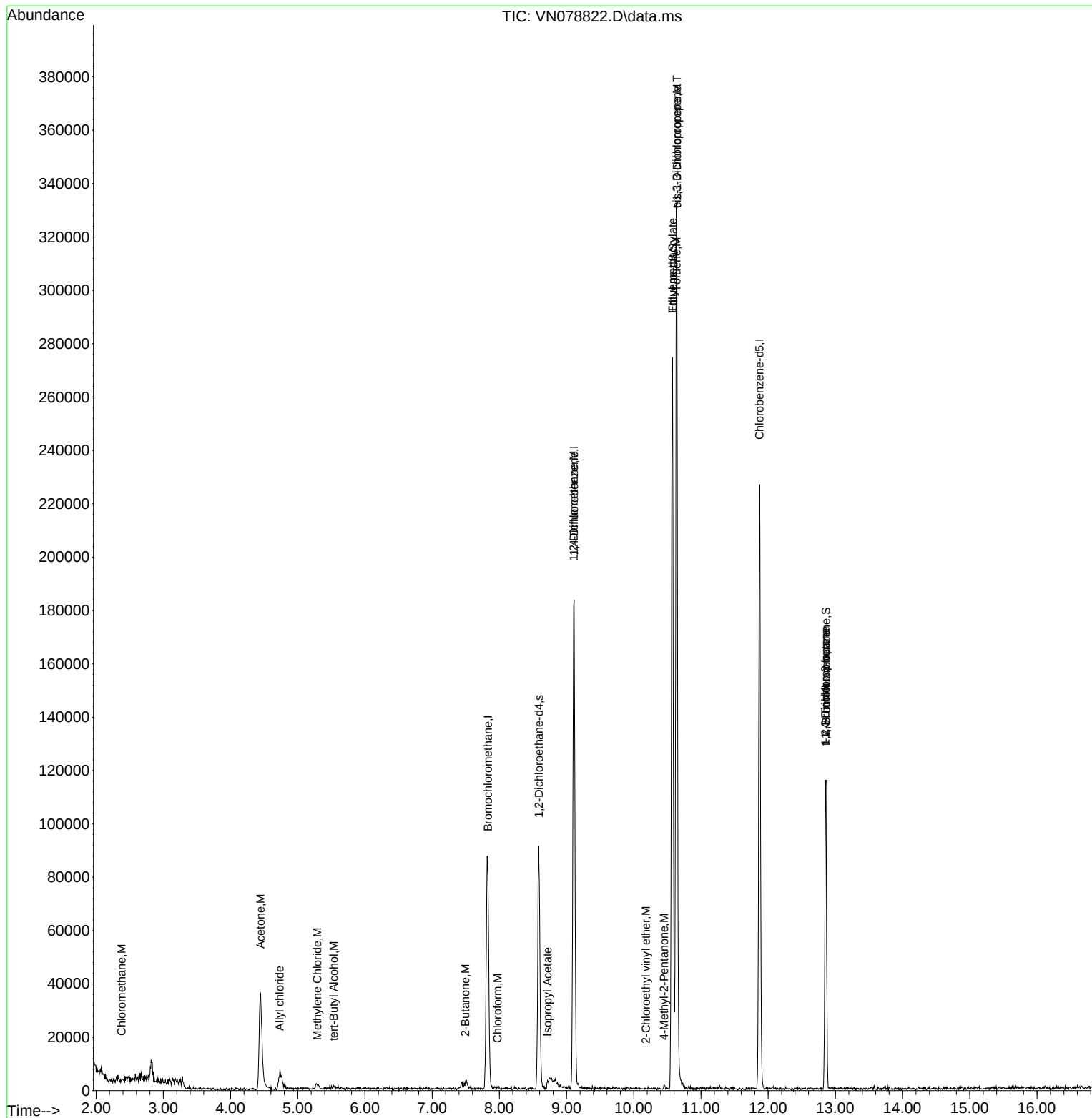
Internal Standards						
1) Bromochloromethane	7.830	128	29364	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.112	114	151063	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.870	117	123076	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.588	65	71561	30.271	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	100.900%
60) 4-Bromofluorobenzene	12.859	95	39872	23.080	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	76.933%
63) Toluene-d8	10.576	98	184526	30.596	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	102.000%
Target Compounds						
					Qvalue	
3) Chloromethane	2.377	50	543	0.225	ug/l #	44
15) Acetone	4.447	58	20988	86.974	ug/l	87
17) Allyl chloride	4.730	41	725	0.254	ug/l	82
18) Methylene Chloride	5.289	84	568	0.278	ug/l #	52
23) tert-Butyl Alcohol	5.536	59	382	1.098	ug/l #	100
25) Chloroform	7.971	83	772	0.212	ug/l #	54
30) 2-Butanone	7.494	43	1069	0.889	ug/l #	47
36) 1,2-Dichloroethane	9.106	62	6795	2.603	ug/l #	75
44) Isopropyl Acetate	8.718	43	1064	0.237	ug/l #	27
48) t-1,3-Dichloropropene	10.641	75	1622	0.606	ug/l #	1
49) cis-1,3-Dichloropropene	10.641	75	1622	0.545	ug/l #	1
51) Ethyl methacrylate	10.576	69	689	0.275	ug/l	83
55) 2-Chloroethyl vinyl ether	10.182	63	207	0.224	ug/l #	43
58) 4-Methyl-2-Pentanone	10.453	43	1105	0.467	ug/l #	66
62) Toluene	10.635	91	242906	33.523	ug/l	97
72) 1,2,3-Trichloropropane	12.853	75	21528	10.728	ug/l	1
77) t-1,4-Dichloro-2-butene	12.853	75	21528	34.179	ug/l #	15

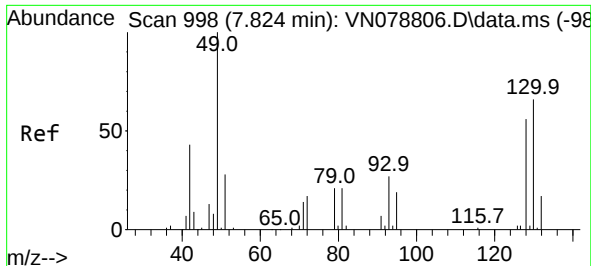
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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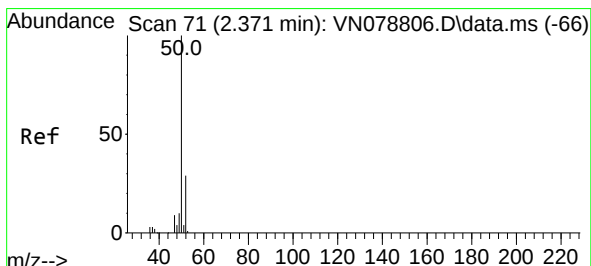
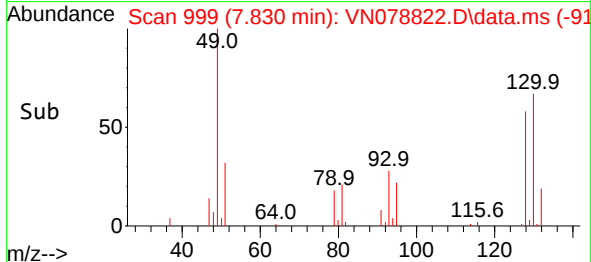
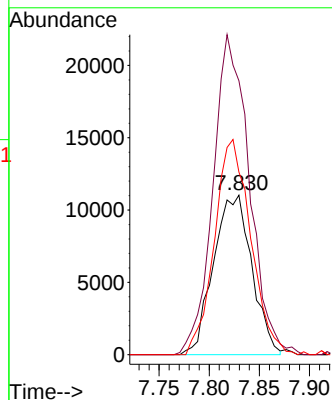
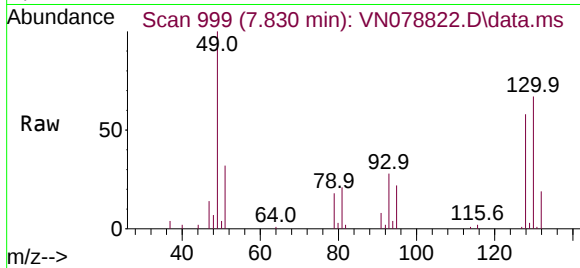




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.830 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN078822.D
Acq: 09 Aug 2023 16:13

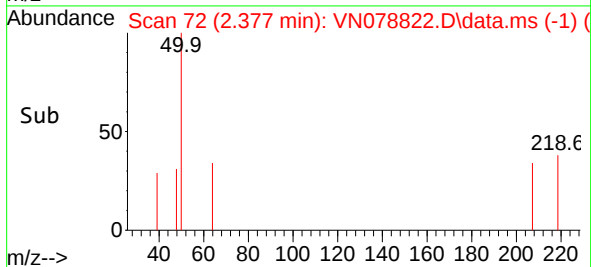
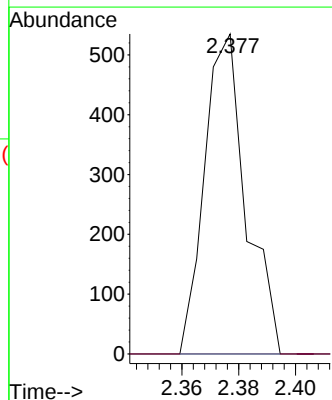
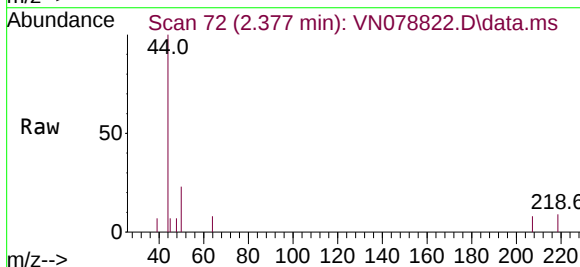
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(JUNE)DL

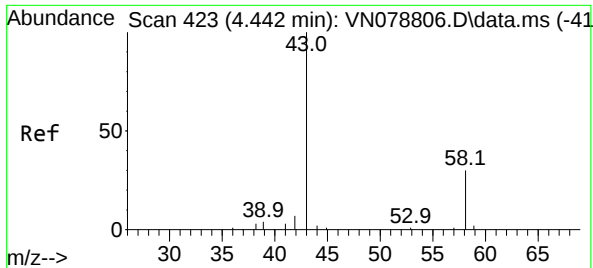
Tgt Ion:128 Resp: 29364
Ion Ratio Lower Upper
128 100
49 189.7 0.0 370.8
130 127.7 0.0 307.0



#3
Chloromethane
Concen: 0.225 ug/l
RT: 2.377 min Scan# 72
Delta R.T. 0.006 min
Lab File: VN078822.D
Acq: 09 Aug 2023 16:13

Tgt Ion: 50 Resp: 543
Ion Ratio Lower Upper
50 100
52 0.0 24.6 36.8#





#15

Acetone

Concen: 86.974 ug/l

RT: 4.447 min Scan# 41

Delta R.T. 0.006 min

Lab File: VN078822.D

Acq: 09 Aug 2023 16:13

Instrument :

MSVOA_N

ClientSampleId :

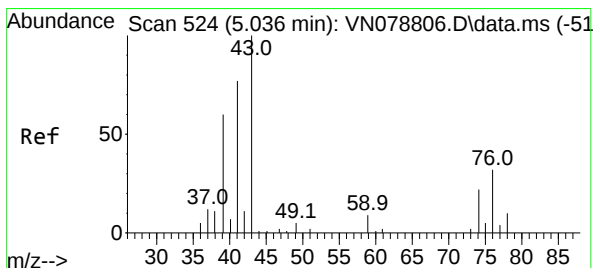
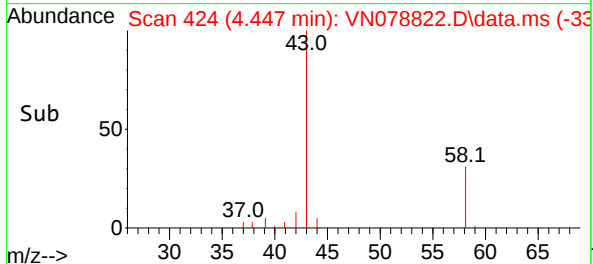
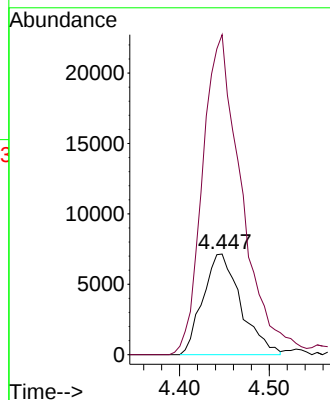
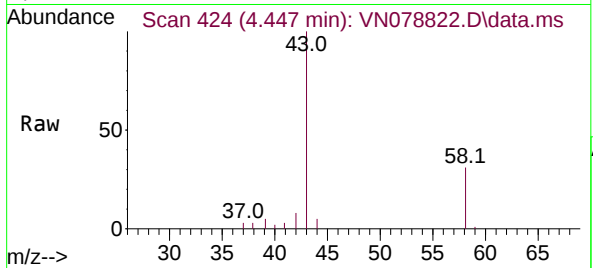
001-WILLETS-PT-BLVD(JUNE)DL

Tgt Ion: 58 Resp: 20988

Ion Ratio Lower Upper

58 100

43 309.6 227.5 341.3



#17

Allyl chloride

Concen: 0.254 ug/l

RT: 4.730 min Scan# 472

Delta R.T. -0.306 min

Lab File: VN078822.D

Acq: 09 Aug 2023 16:13

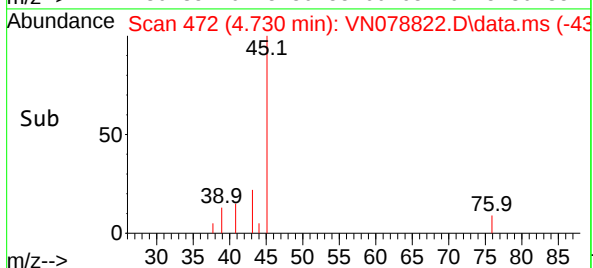
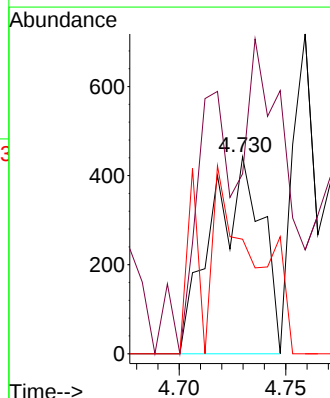
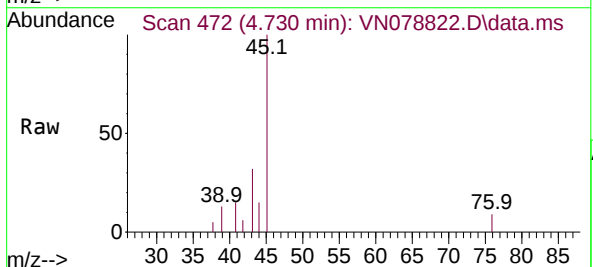
Tgt Ion: 41 Resp: 725

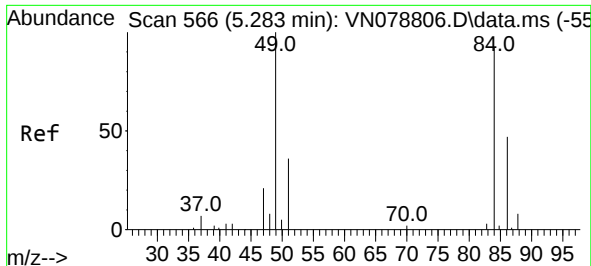
Ion Ratio Lower Upper

41 100

39 91.4 37.6 112.8

76 58.1 23.8 71.4





#18

Methylene Chloride

Concen: 0.278 ug/l

RT: 5.289 min Scan# 5

Delta R.T. 0.006 min

Lab File: VN078822.D

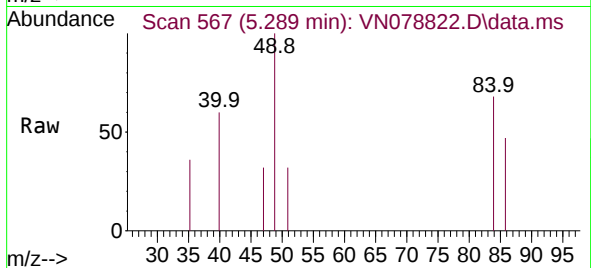
Acq: 09 Aug 2023 16:13

Instrument :

MSVOA_N

ClientSampleId :

001-WILLETS-PT-BLVD(JUNE)DL



Tgt Ion: 84 Resp: 568

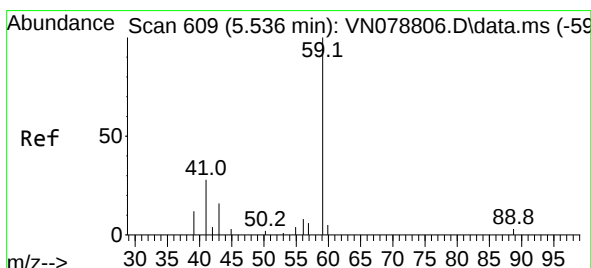
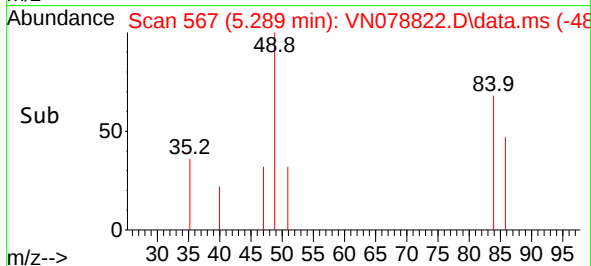
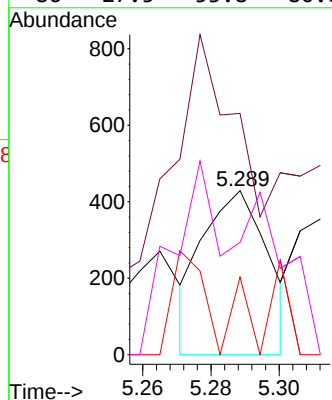
Ion Ratio Lower Upper

84 100

49 62.8 88.1 132.1#

51 0.0 24.0 36.0#

86 27.5 53.8 80.8#



#23

tert-Butyl Alcohol

Concen: 1.098 ug/l

RT: 5.536 min Scan# 609

Delta R.T. -0.000 min

Lab File: VN078822.D

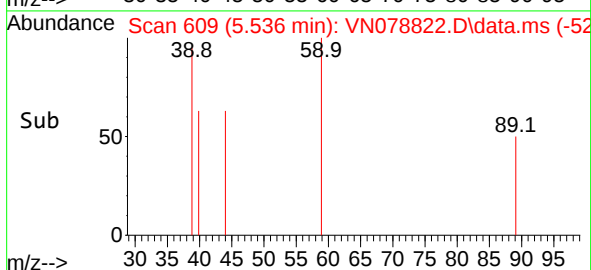
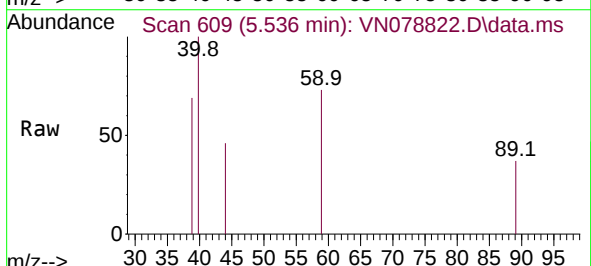
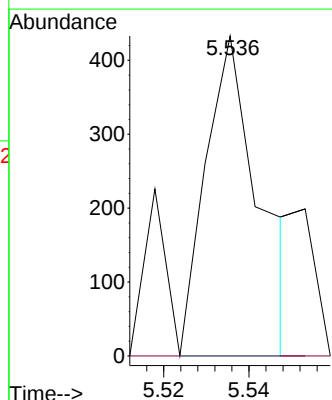
Acq: 09 Aug 2023 16:13

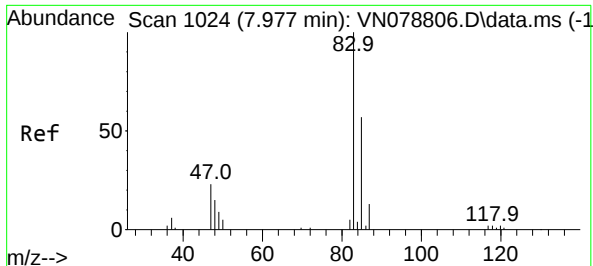
Tgt Ion: 59 Resp: 382

Ion Ratio Lower Upper

59 100

52 0.0 0.1 0.1#

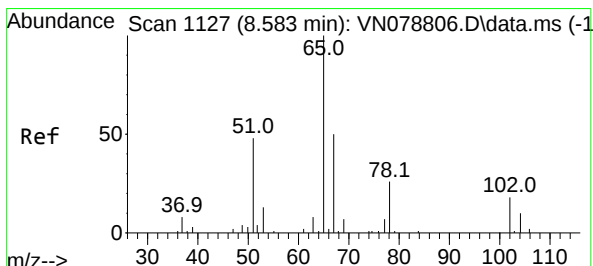
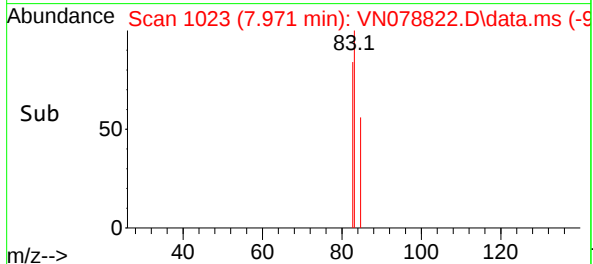
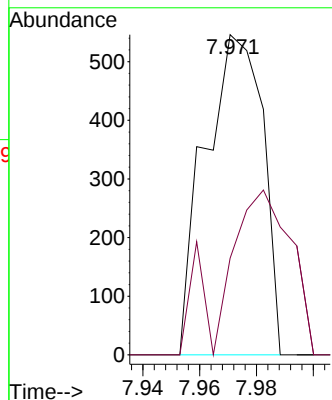
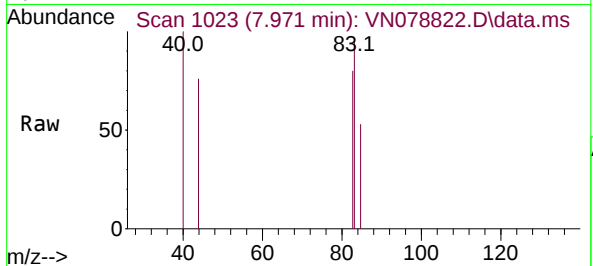




#25
Chloroform
Concen: 0.212 ug/l
RT: 7.971 min Scan# 1023
Delta R.T. -0.006 min
Lab File: VN078822.D
Acq: 09 Aug 2023 16:13

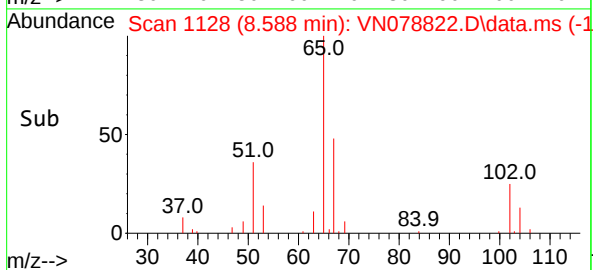
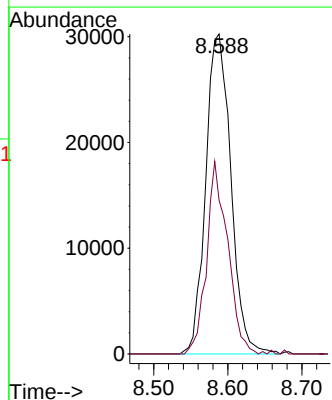
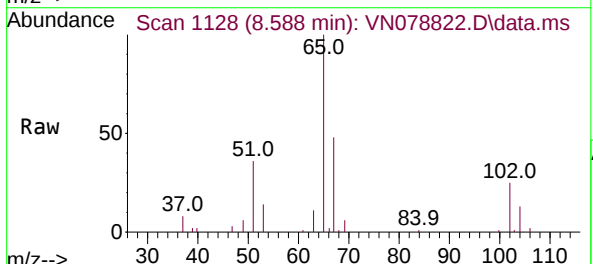
Instrument :
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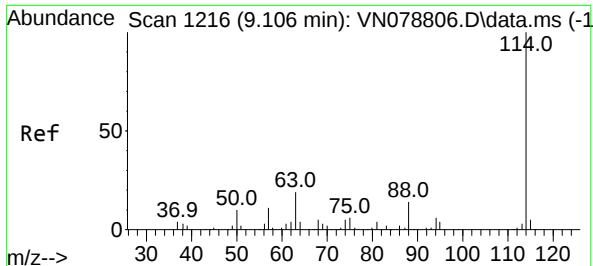
Tgt Ion: 83 Resp: 772
Ion Ratio Lower Upper
83 100
85 30.2 53.4 80.0#



#27
1,2-Dichloroethane-d4
Concen: 30.271 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.006 min
Lab File: VN078822.D
Acq: 09 Aug 2023 16:13

Tgt Ion: 65 Resp: 71561
Ion Ratio Lower Upper
65 100
67 50.4 42.9 64.3

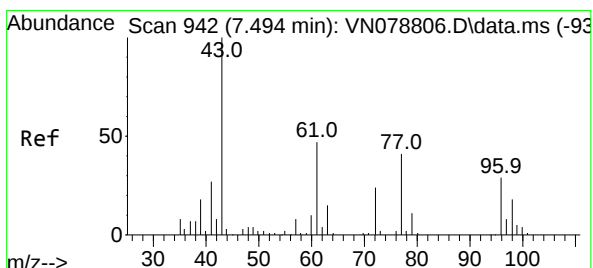
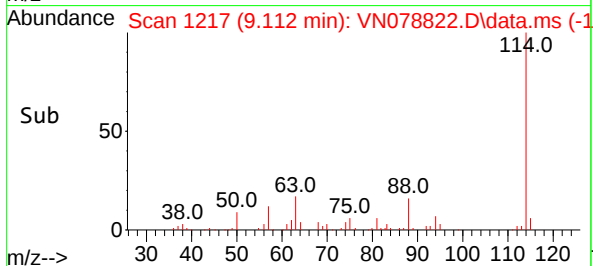
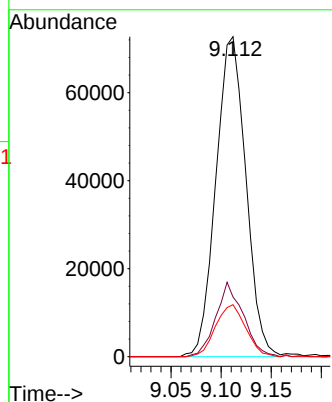
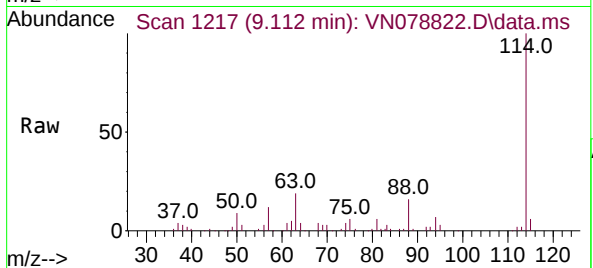




#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.112 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN078822.D
Acq: 09 Aug 2023 16:13

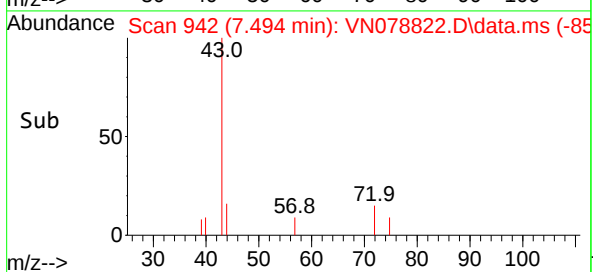
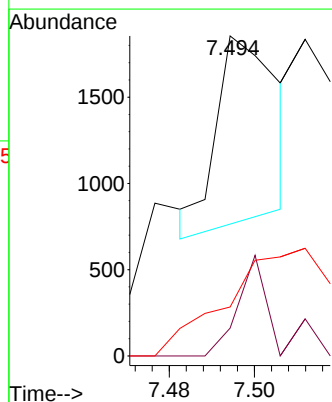
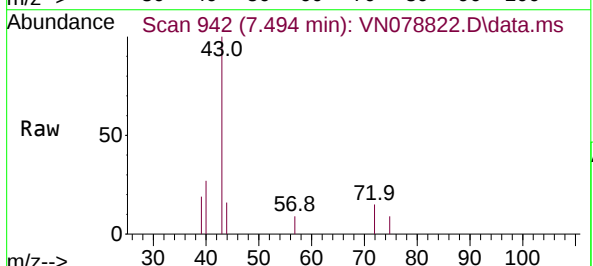
Instrument :
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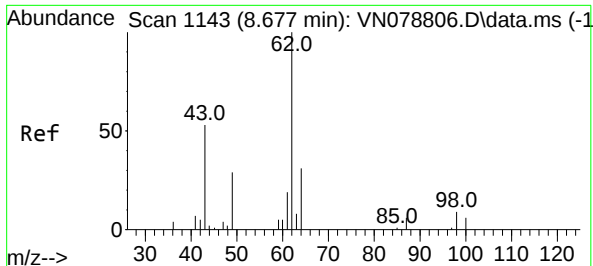
Tgt Ion:114 Resp: 151063
Ion Ratio Lower Upper
114 100
63 21.3 15.2 22.8
88 16.4 12.5 18.7



#30
2-Butanone
Concen: 0.889 ug/l
RT: 7.494 min Scan# 942
Delta R.T. -0.000 min
Lab File: VN078822.D
Acq: 09 Aug 2023 16:13

Tgt Ion: 43 Resp: 1069
Ion Ratio Lower Upper
43 100
57 24.6 6.8 10.2#
72 0.0 23.8 35.6#





#36

1,2-Dichloroethane

Concen: 2.603 ug/l

RT: 9.106 min Scan# 11

Delta R.T. 0.429 min

Lab File: VN078822.D

Acq: 09 Aug 2023 16:13

Instrument :

MSVOA_N

ClientSampleId :

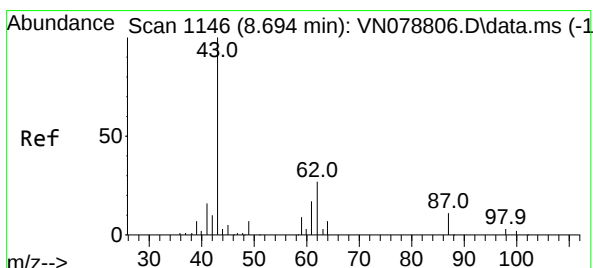
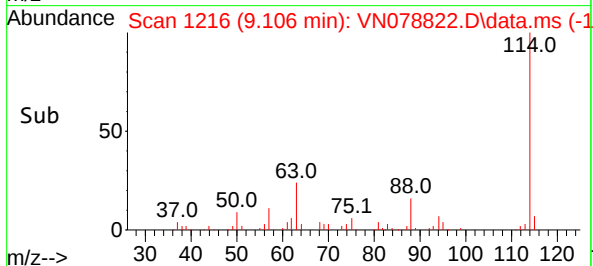
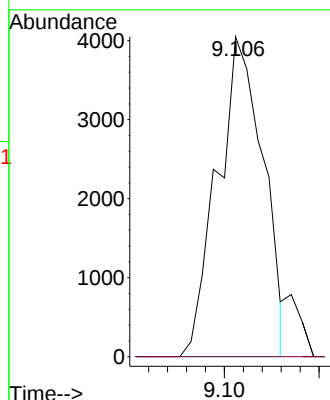
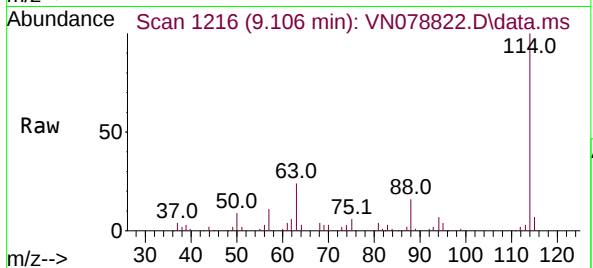
001-WILLETS-PT-BLVD(JUNE)DL

Tgt Ion: 62 Resp: 6795

Ion Ratio Lower Upper

62 100

98 0.0 7.4 11.0#



#44

Isopropyl Acetate

Concen: 0.237 ug/l

RT: 8.718 min Scan# 1150

Delta R.T. 0.023 min

Lab File: VN078822.D

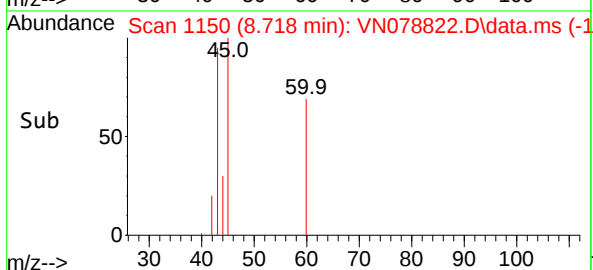
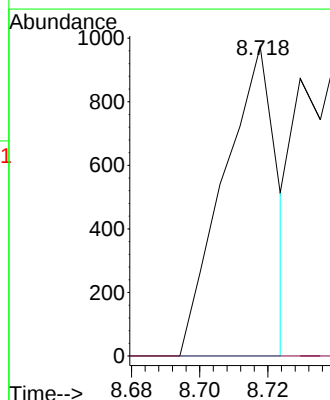
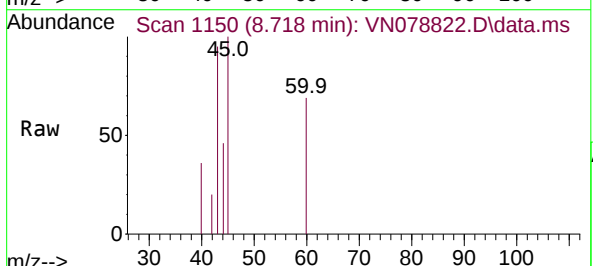
Acq: 09 Aug 2023 16:13

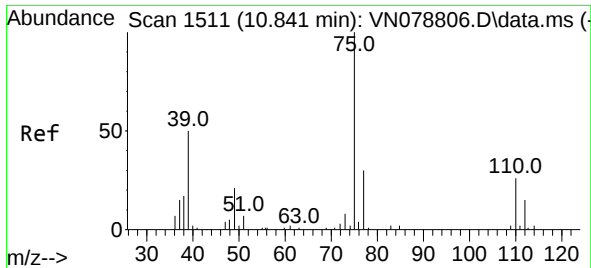
Tgt Ion: 43 Resp: 1064

Ion Ratio Lower Upper

43 100

61 67.5 23.0 34.6#

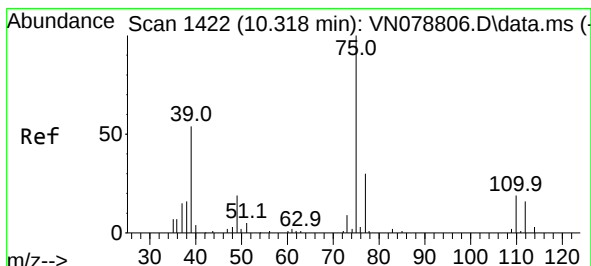
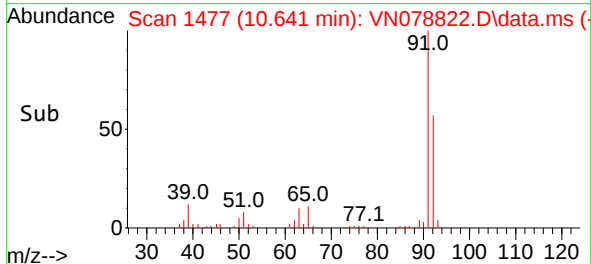
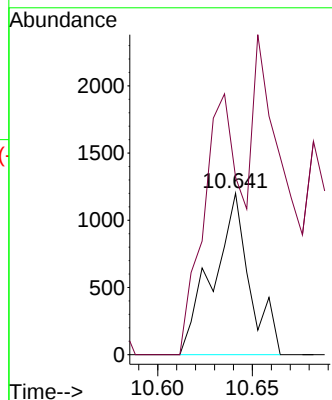
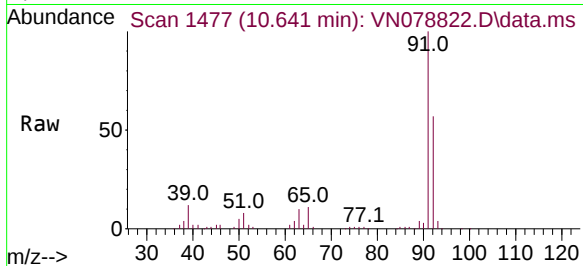




#48
 t-1,3-Dichloropropene
 Concen: 0.606 ug/l
 RT: 10.641 min Scan# 1477
 Delta R.T. -0.200 min
 Lab File: VN078822.D
 Acq: 09 Aug 2023 16:13

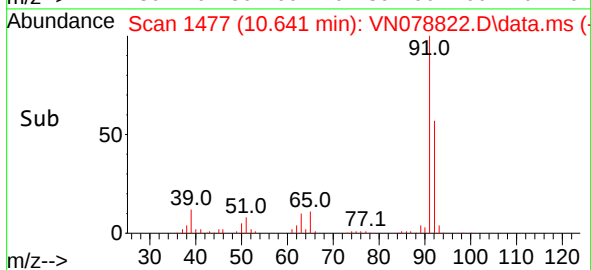
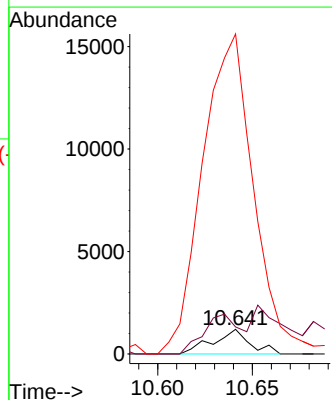
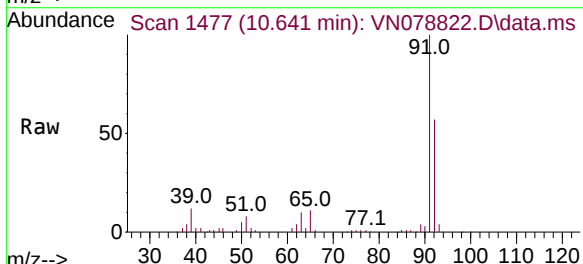
Instrument :
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 001-WILLETS-PT-BLVD(JUNE)DL

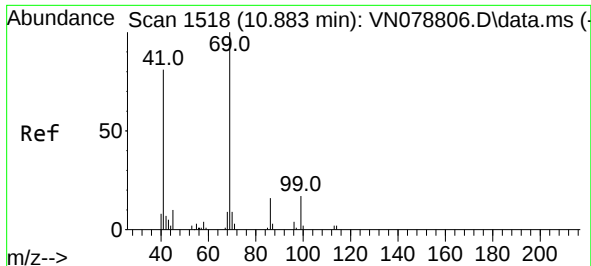
Tgt Ion: 75 Resp: 1622
 Ion Ratio Lower Upper
 75 100
 77 110.0 26.1 39.1#



#49
 cis-1,3-Dichloropropene
 Concen: 0.545 ug/l
 RT: 10.641 min Scan# 1477
 Delta R.T. 0.323 min
 Lab File: VN078822.D
 Acq: 09 Aug 2023 16:13

Tgt Ion: 75 Resp: 1622
 Ion Ratio Lower Upper
 75 100
 77 110.0 24.0 36.0#
 39 1187.0 35.1 52.7#

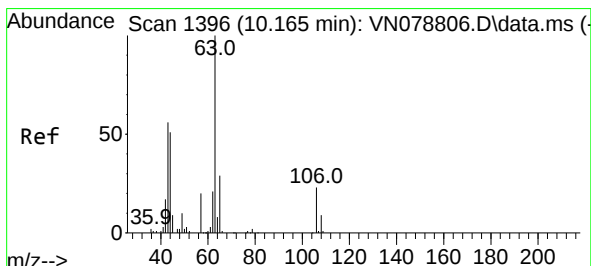
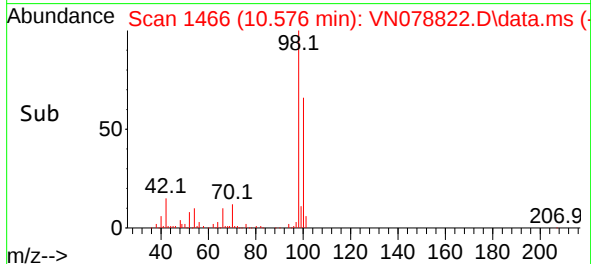
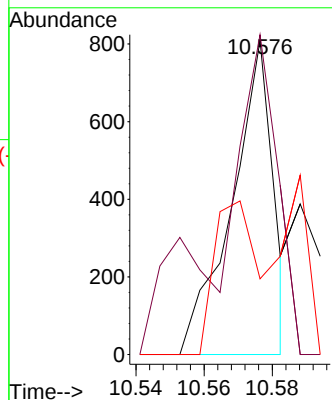
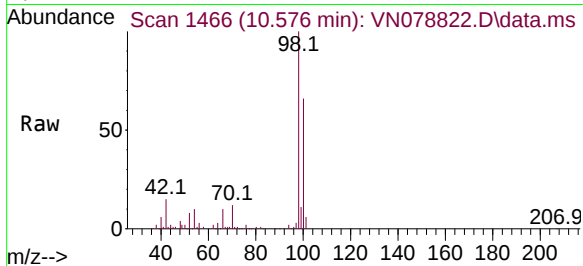




#51
Ethyl methacrylate
Concen: 0.275 ug/l
RT: 10.576 min Scan# 1466
Delta R.T. -0.306 min
Lab File: VN078822.D
Acq: 09 Aug 2023 16:13

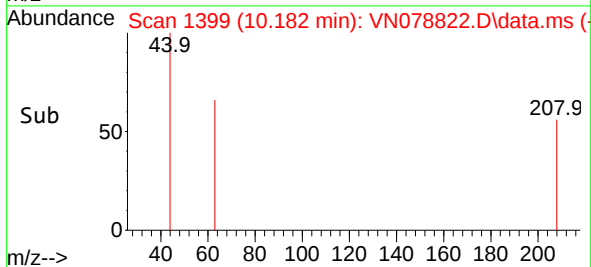
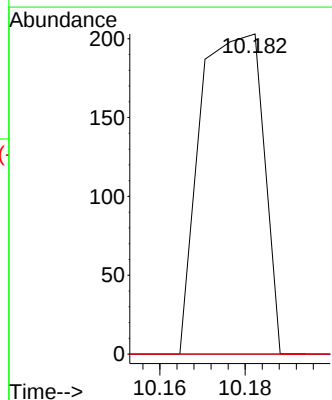
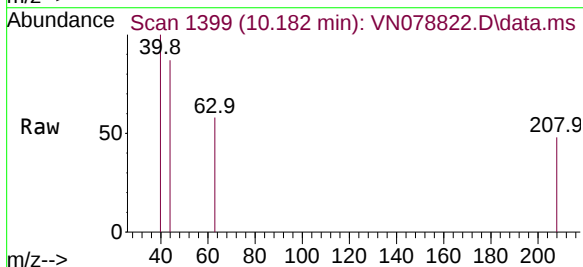
Instrument : MSVOA_N
ClientSampleId : 001-WILLETS-PT-BLVD(JUNE)DL

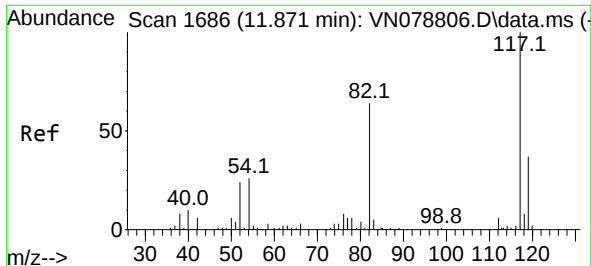
Tgt Ion:	69	Resp:	689
Ion	Ratio	Lower	Upper
69	100		
41	64.4	26.0	78.0
39	24.1	16.3	48.9



#55
2-Chloroethyl vinyl ether
Concen: 0.224 ug/l
RT: 10.182 min Scan# 1399
Delta R.T. 0.017 min
Lab File: VN078822.D
Acq: 09 Aug 2023 16:13

Tgt Ion:	63	Resp:	207
Ion	Ratio	Lower	Upper
63	100		
65	0.0	26.3	39.5#
106	0.0	23.8	35.6#

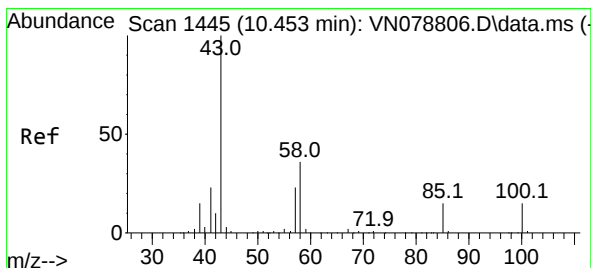
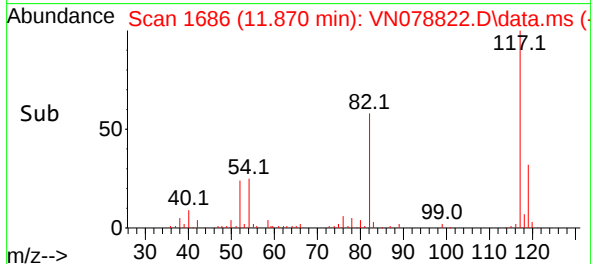
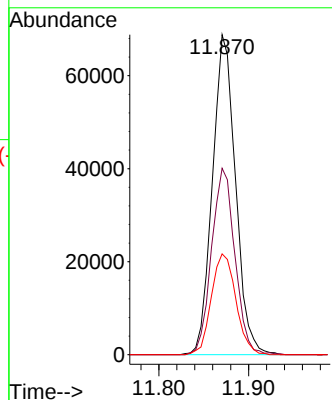
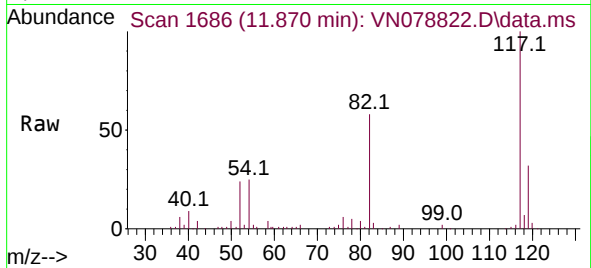




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.870 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN078822.D
Acq: 09 Aug 2023 16:13

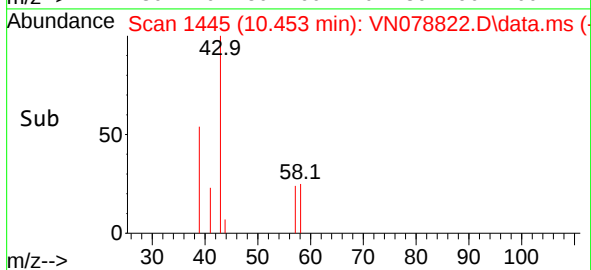
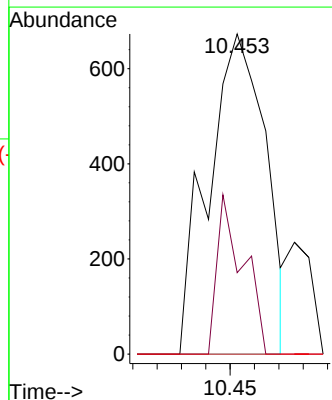
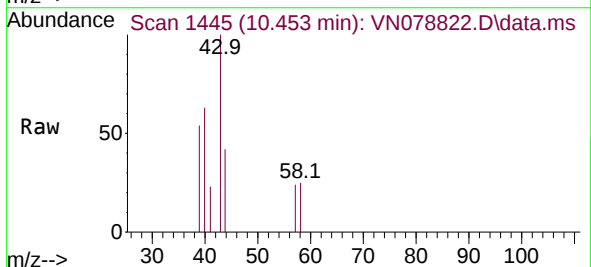
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(JUNE)DL

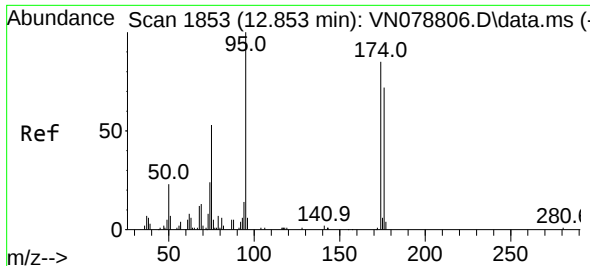
Tgt Ion:117 Resp: 123076
Ion Ratio Lower Upper
117 100
82 58.9 43.9 65.9
119 33.5 26.2 39.4



#58
4-Methyl-2-Pentanone
Concen: 0.467 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. -0.000 min
Lab File: VN078822.D
Acq: 09 Aug 2023 16:13

Tgt Ion: 43 Resp: 1105
Ion Ratio Lower Upper
43 100
58 22.7 32.6 48.8#
85 0.0 16.2 24.2#

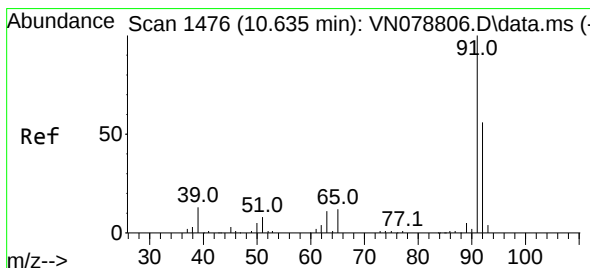
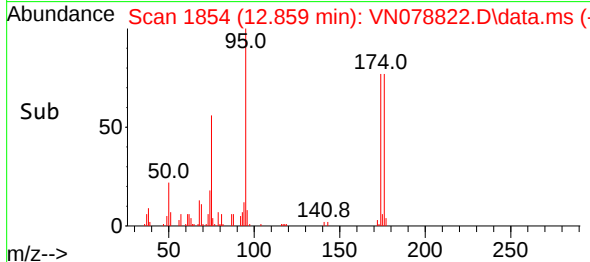
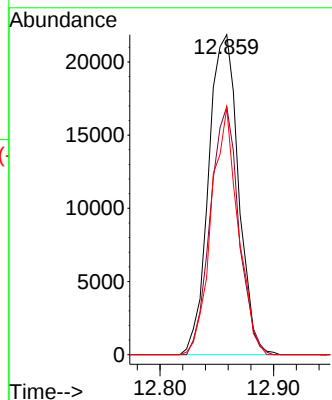
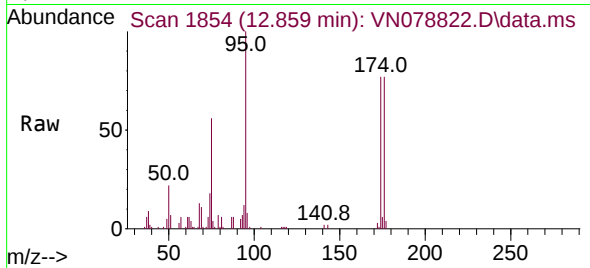




#60
4-Bromofluorobenzene
Concen: 23.080 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. 0.006 min
Lab File: VN078822.D
Acq: 09 Aug 2023 16:13

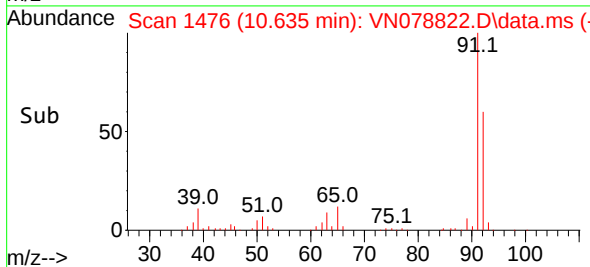
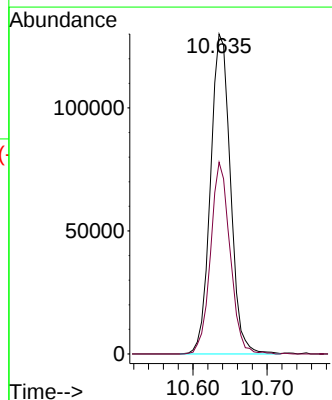
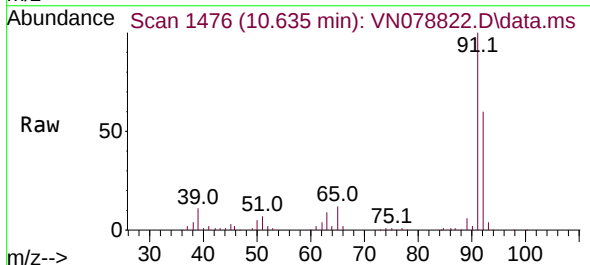
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(JUNE)DL

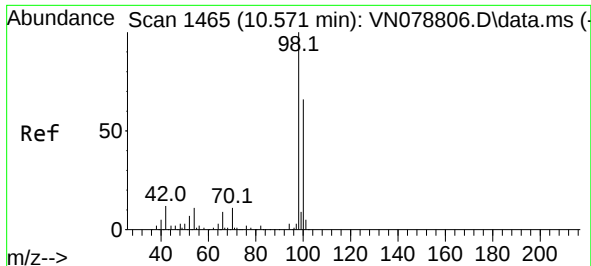
Tgt Ion: 95 Resp: 39872
Ion Ratio Lower Upper
95 100
174 74.0 61.7 92.5
176 69.2 58.1 87.1



#62
Toluene
Concen: 33.523 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. -0.000 min
Lab File: VN078822.D
Acq: 09 Aug 2023 16:13

Tgt Ion: 91 Resp: 242906
Ion Ratio Lower Upper
91 100
92 58.4 45.2 67.8

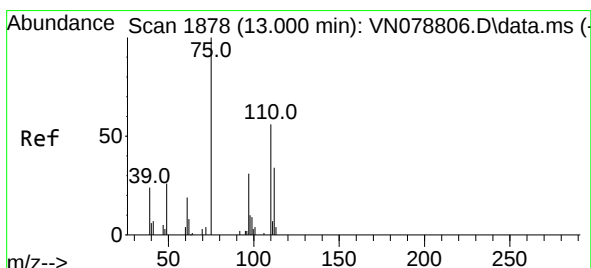
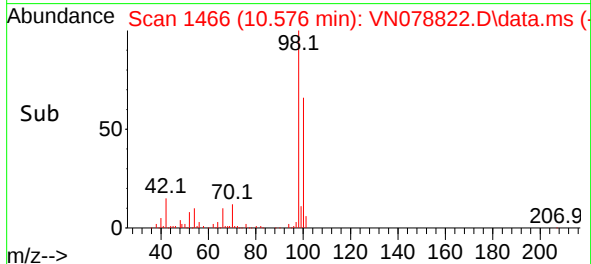
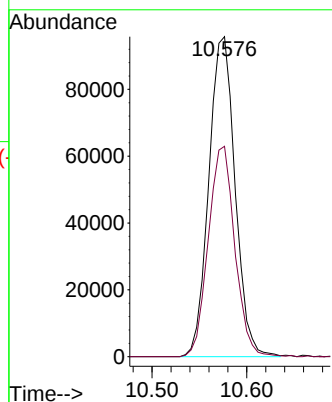
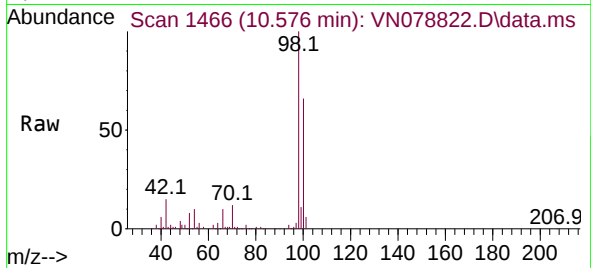




#63
Toluene-d8
Concen: 30.596 ug/l
RT: 10.576 min Scan# 1466
Delta R.T. 0.006 min
Lab File: VN078822.D
Acq: 09 Aug 2023 16:13

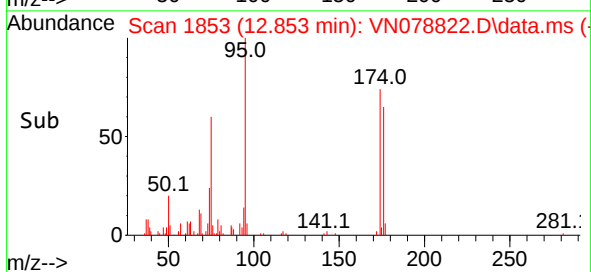
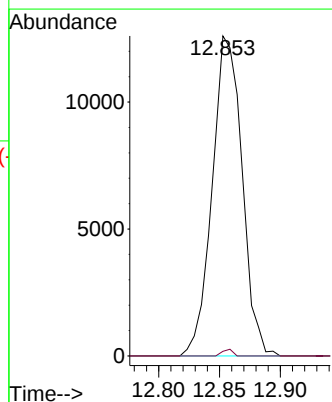
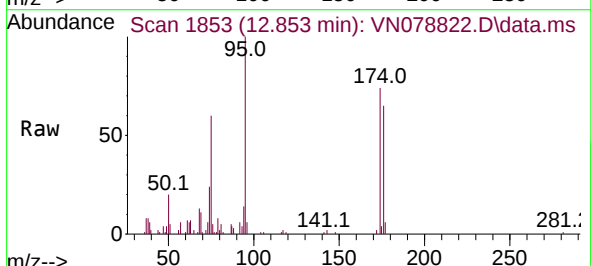
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(JUNE)DL

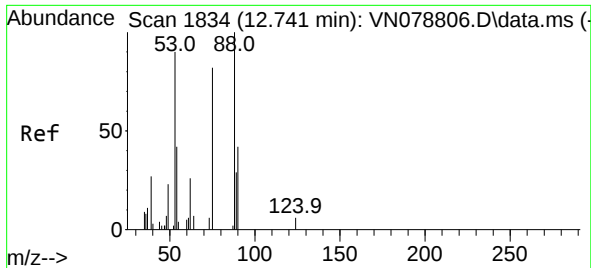
Tgt Ion: 98 Resp: 184526
Ion Ratio Lower Upper
98 100
100 66.3 49.7 74.5



#72
1,2,3-Trichloropropane
Concen: 10.728 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN078822.D
Acq: 09 Aug 2023 16:13

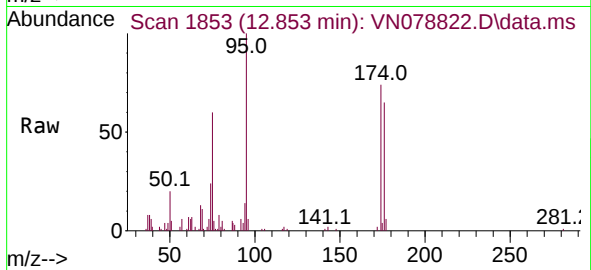
Tgt Ion: 75 Resp: 21528
Ion Ratio Lower Upper
75 100
77 0.7 0.0 387.4





#77
 t-1,4-Dichloro-2-butene
 Concen: 34.179 ug/l
 RT: 12.853 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN078822.D
 Acq: 09 Aug 2023 16:13

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



Tgt Ion: 75 Resp: 21528
 Ion Ratio Lower Upper
 75 100
 53 0.0 41.6 124.9#
 89 0.0 25.1 75.4#

