

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021023\
 Data File : VN076614.D
 Acq On : 10 Feb 2023 17:09
 Operator : JC\MD
 Sample : 01500-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

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

Quant Time: Feb 11 00:58:17 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N020923W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Feb 10 05:40:47 2023
 Response via : Initial Calibration

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

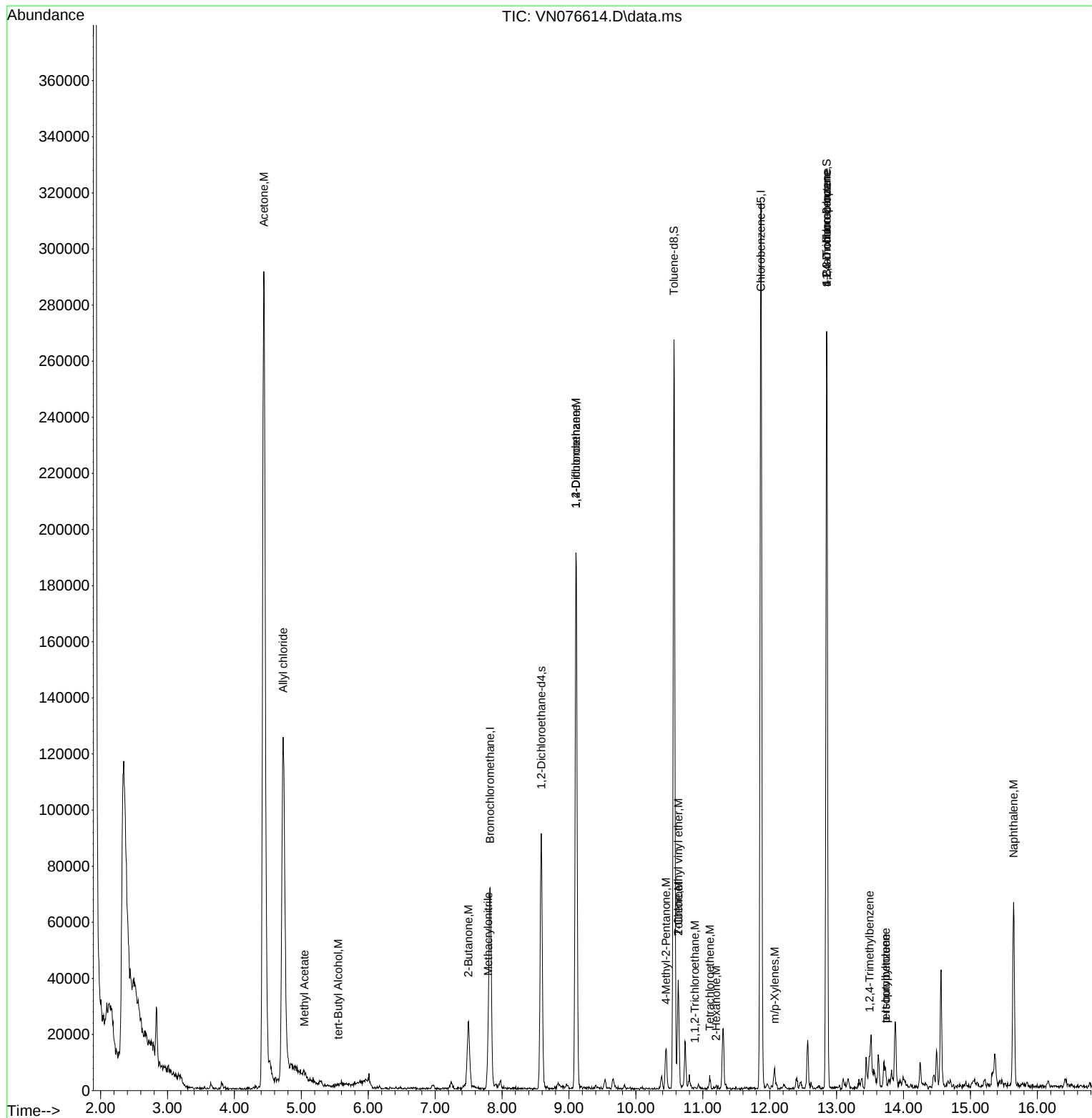
Internal Standards						
1) Bromochloromethane	7.822	128	23437	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.104	114	154627	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.869	117	176692	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.586	65	76349	27.639	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	92.133%
60) 4-Bromofluorobenzene	12.851	95	95860	24.031	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	80.100%
63) Toluene-d8	10.569	98	178296	27.482	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	91.600%
Target Compounds						
					Qvalue	
6) Chloroethane	3.169	64	1270	Below Cal		98
12) Methyl Acetate	5.045	43	2726	0.497 ug/l		91
15) Acetone	4.440	58	170705	367.595 ug/l		77
17) Allyl chloride	4.728	41	23401	4.640 ug/l		91
23) tert-Butyl Alcohol	5.551	59	436	0.808 ug/l	#	100
30) 2-Butanone	7.498	43	39388	18.232 ug/l		99
35) Methacrylonitrile	7.792	41	1329	0.535 ug/l	#	47
36) 1,2-Dichloroethane	9.104	62	6502	1.379 ug/l	#	74
50) 1,1,2-Trichloroethane	10.880	97	530	0.202 ug/l	#	16
55) 2-Chloroethyl vinyl ether	10.633	63	2349	1.235 ug/l	#	1
58) 4-Methyl-2-Pentanone	10.451	43	9510	1.925 ug/l	#	83
59) 2-Hexanone	11.198	43	1082	0.301 ug/l	#	44
61) Tetrachloroethene	11.104	164	470	0.208 ug/l	#	21
62) Toluene	10.633	91	27211	2.077 ug/l		100
67) m/p-Xylenes	12.074	106	2307	0.428 ug/l		85
72) 1,2,3-Trichloropropane	12.851	75	51209	11.305 ug/l		1
77) t-1,4-Dichloro-2-butene	12.851	75	51209	37.479 ug/l	#	15
79) tert-butylbenzene	13.733	119	3432	0.304 ug/l		64
80) 1,2,4-Trimethylbenzene	13.492	105	6473	0.494 ug/l		77
82) p-Isopropyltoluene	13.733	119	3432	0.271 ug/l		98
91) Naphthalene	15.645	128	56497	5.793 ug/l		99

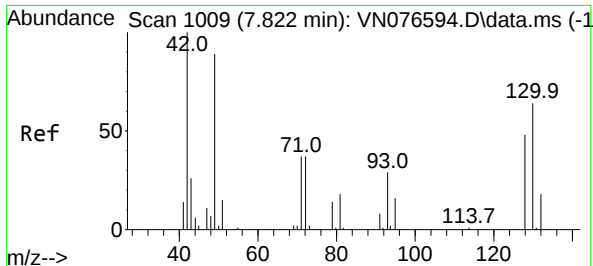
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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001-WILLETS-PT-BLVD(FEB)

Quant Time: Feb 11 00:58:17 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N020923W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Feb 10 05:40:47 2023
Response via : Initial Calibration

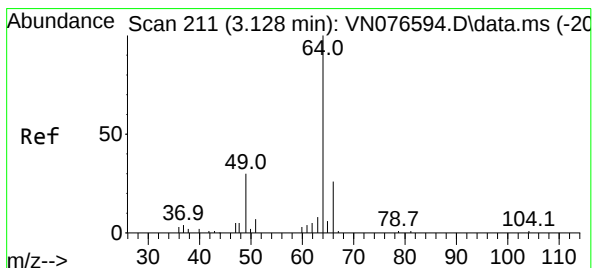
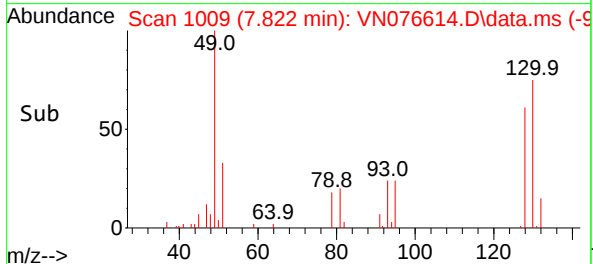
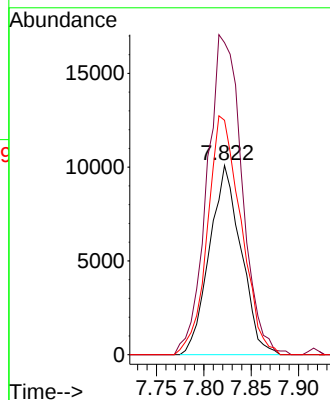
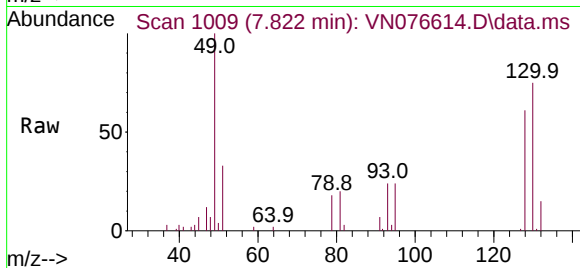




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.822 min Scan# 1009
Delta R.T. -0.008 min
Lab File: VN076614.D
Acq: 10 Feb 2023 17:09

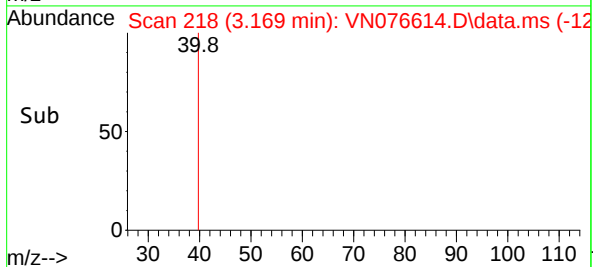
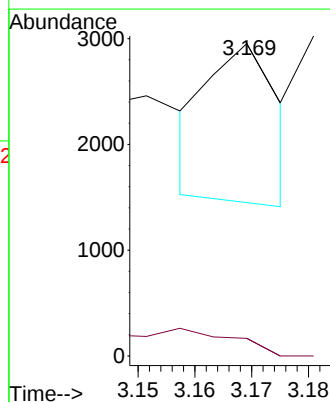
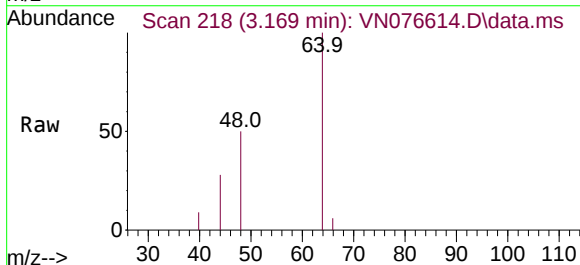
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(FEB)

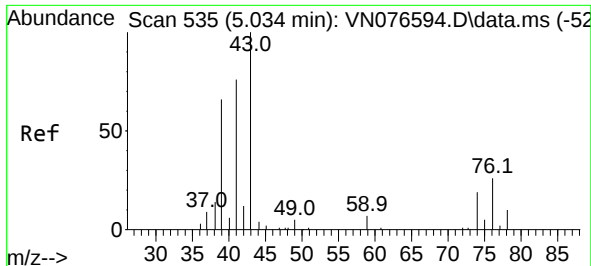
Tgt Ion:128 Resp: 23437
Ion Ratio Lower Upper
128 100
49 185.6 0.0 492.0
130 133.4 0.0 313.3



#6
Chloroethane
Concen: Below Cal
RT: 3.169 min Scan# 218
Delta R.T. 0.045 min
Lab File: VN076614.D
Acq: 10 Feb 2023 17:09

Tgt Ion: 64 Resp: 1270
Ion Ratio Lower Upper
64 100
66 26.1 21.8 32.8

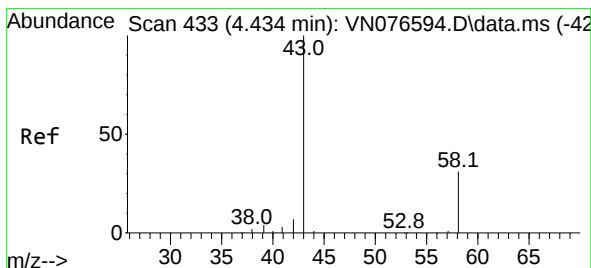
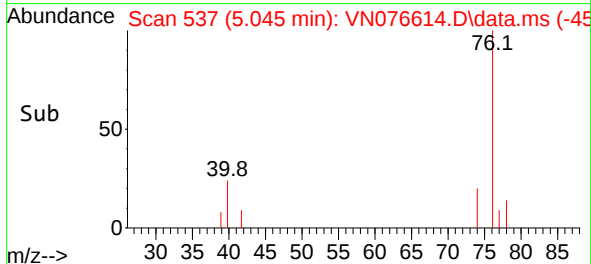
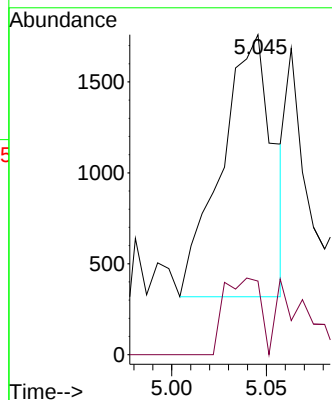
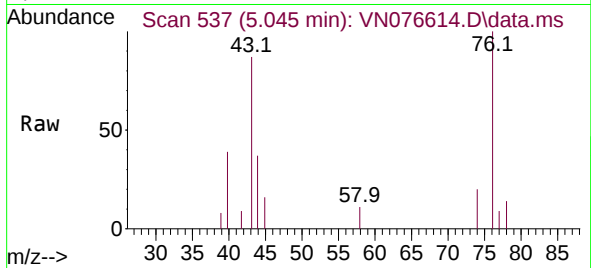




#12
Methyl Acetate
Concen: 0.497 ug/l
RT: 5.045 min Scan# 51
Delta R.T. -0.003 min
Lab File: VN076614.D
Acq: 10 Feb 2023 17:09

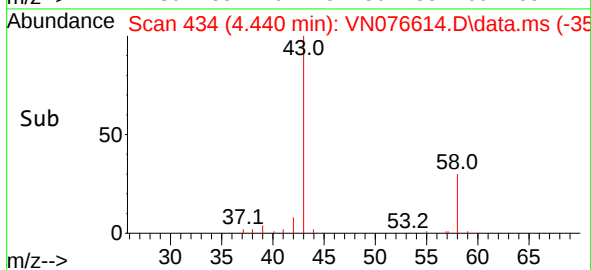
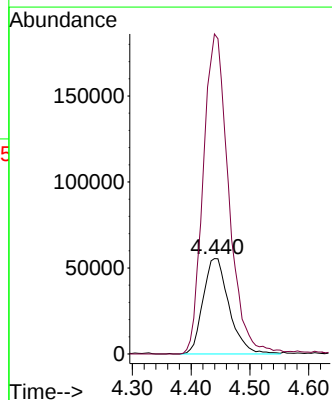
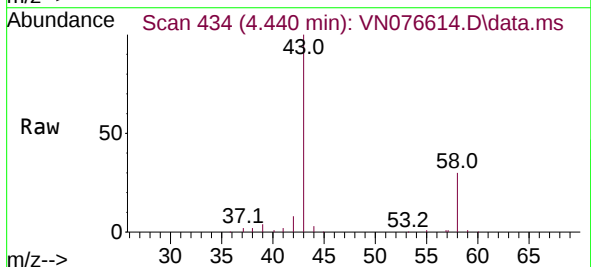
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(FEB)

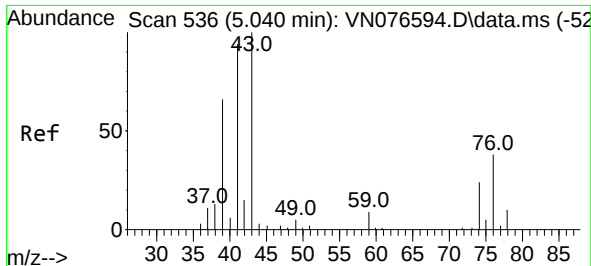
Tgt Ion: 43 Resp: 2726
Ion Ratio Lower Upper
43 100
74 19.3 19.0 28.6



#15
Acetone
Concen: 367.595 ug/l
RT: 4.440 min Scan# 434
Delta R.T. -0.013 min
Lab File: VN076614.D
Acq: 10 Feb 2023 17:09

Tgt Ion: 58 Resp: 170705
Ion Ratio Lower Upper
58 100
43 335.3 232.2 348.4





#17

Allyl chloride

Concen: 4.640 ug/l

RT: 4.728 min Scan# 41

Delta R.T. -0.314 min

Lab File: VN076614.D

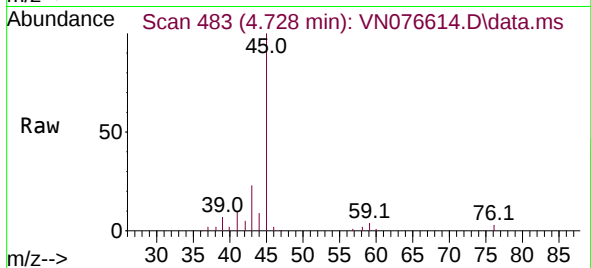
Acq: 10 Feb 2023 17:09

Instrument :

MSVOA_N

ClientSampleId :

001-WILLETS-PT-BLVD(FEB)



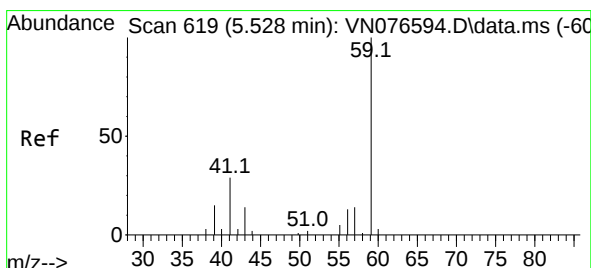
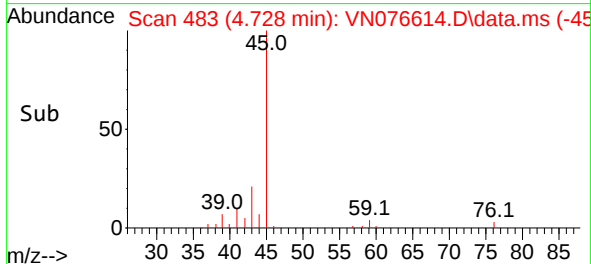
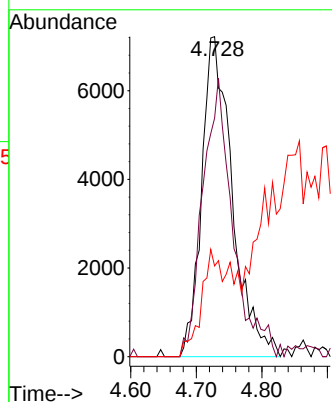
Tgt Ion: 41 Resp: 23401

Ion Ratio Lower Upper

41 100

39 74.5 39.1 117.5

76 28.3 19.8 59.4



#23

tert-Butyl Alcohol

Concen: 0.808 ug/l

RT: 5.551 min Scan# 623

Delta R.T. -0.008 min

Lab File: VN076614.D

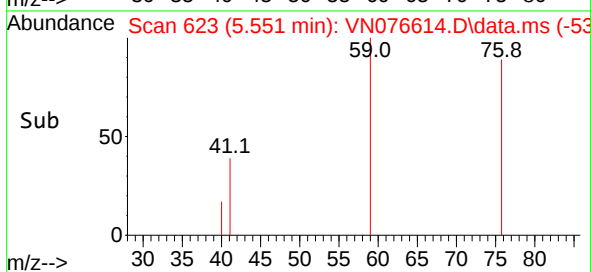
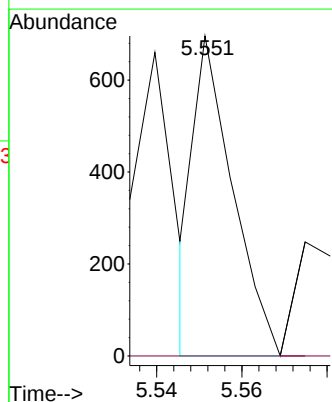
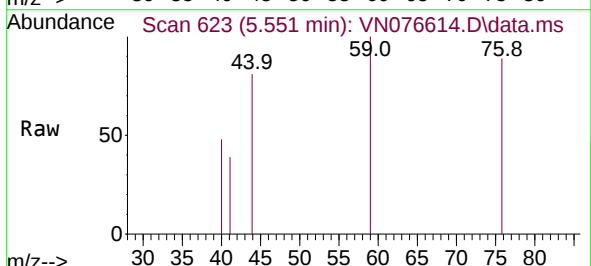
Acq: 10 Feb 2023 17:09

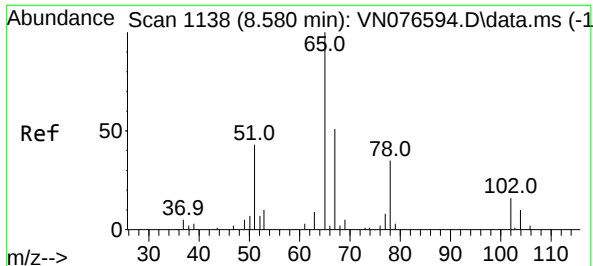
Tgt Ion: 59 Resp: 436

Ion Ratio Lower Upper

59 100

52 0.0 0.2 0.4#





#27

1,2-Dichloroethane-d4

Concen: 27.639 ug/l

RT: 8.586 min Scan# 1139

Delta R.T. -0.002 min

Lab File: VN076614.D

Acq: 10 Feb 2023 17:09

Instrument :

MSVOA_N

ClientSampleId :

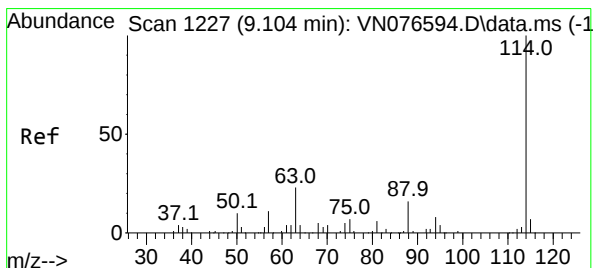
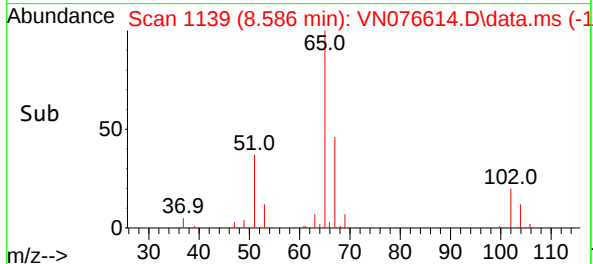
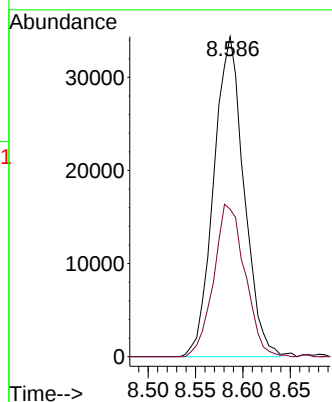
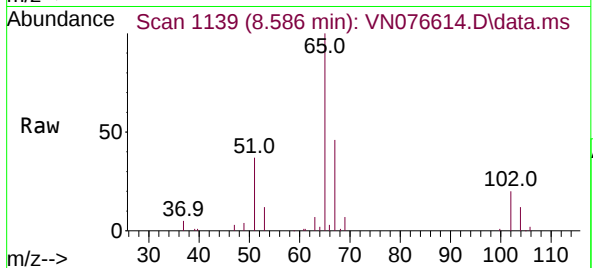
001-WILLETS-PT-BLVD(FEB)

Tgt Ion: 65 Resp: 76349

Ion Ratio Lower Upper

65 100

67 49.1 45.2 67.8



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.104 min Scan# 1227

Delta R.T. -0.002 min

Lab File: VN076614.D

Acq: 10 Feb 2023 17:09

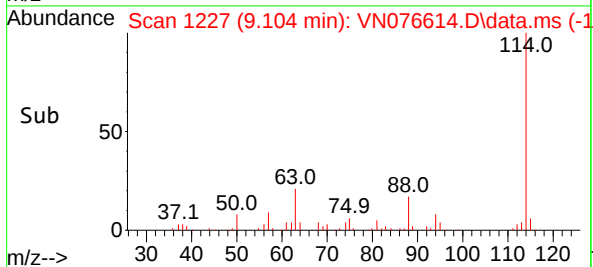
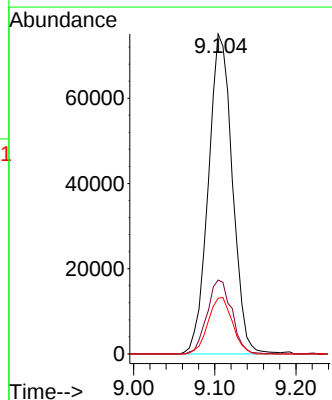
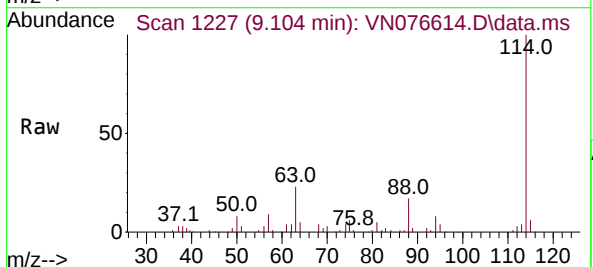
Tgt Ion: 114 Resp: 154627

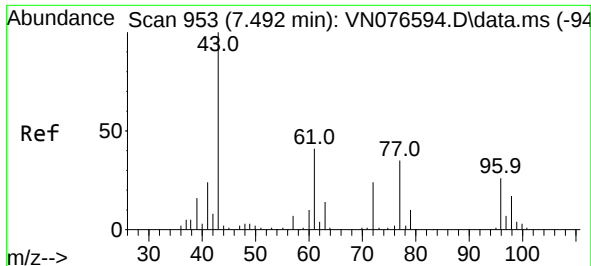
Ion Ratio Lower Upper

114 100

63 23.5 16.6 25.0

88 17.8 12.2 18.4

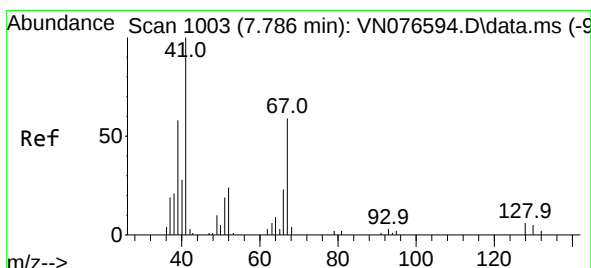
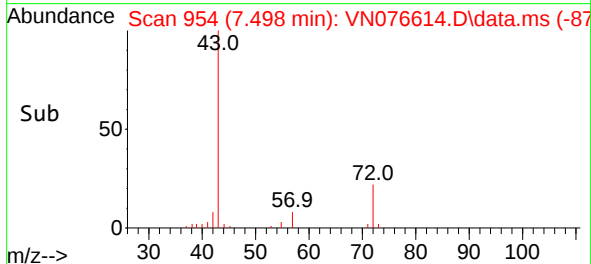
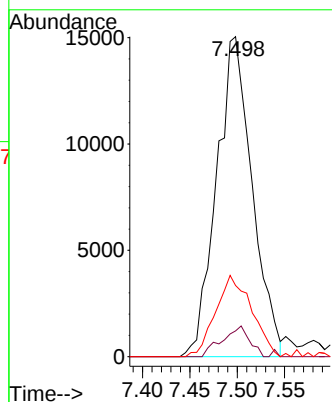
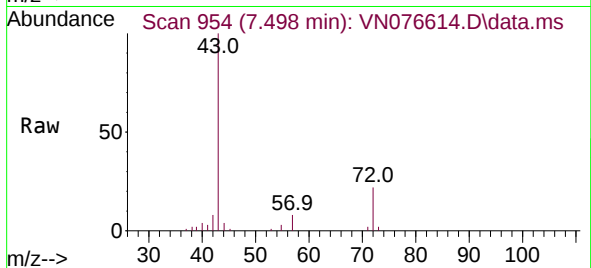




#30
2-Butanone
Concen: 18.232 ug/l
RT: 7.498 min Scan# 91
Delta R.T. -0.008 min
Lab File: VN076614.D
Acq: 10 Feb 2023 17:09

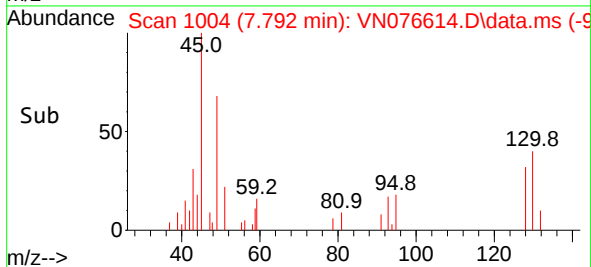
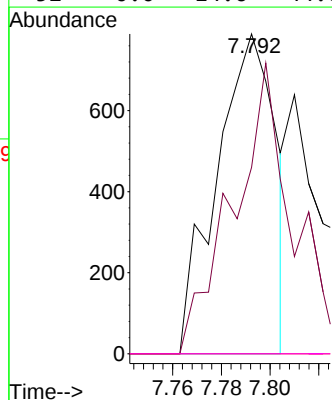
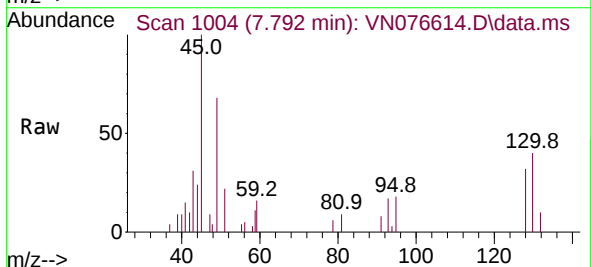
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(FEB)

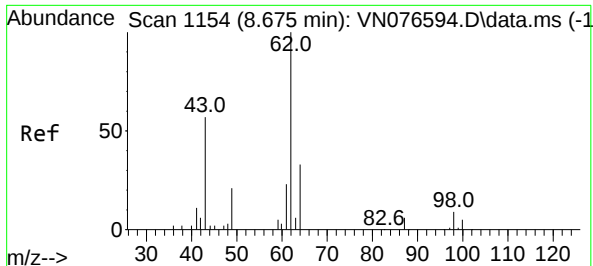
Tgt Ion: 43 Resp: 39388
Ion Ratio Lower Upper
43 100
57 7.3 6.3 9.5
72 25.7 21.0 31.4



#35
Methacrylonitrile
Concen: 0.535 ug/l
RT: 7.792 min Scan# 1004
Delta R.T. -0.002 min
Lab File: VN076614.D
Acq: 10 Feb 2023 17:09

Tgt Ion: 41 Resp: 1329
Ion Ratio Lower Upper
41 100
39 58.3 27.7 83.1
67 0.0 38.0 113.9#
52 0.0 14.6 44.0#





#36

1,2-Dichloroethane

Concen: 1.379 ug/l

RT: 9.104 min Scan# 1154

Delta R.T. 0.421 min

Lab File: VN076614.D

Acq: 10 Feb 2023 17:09

Instrument :

MSVOA_N

ClientSampleId :

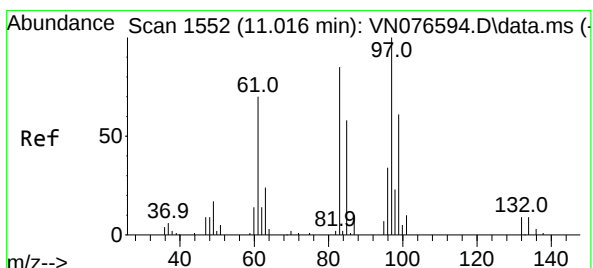
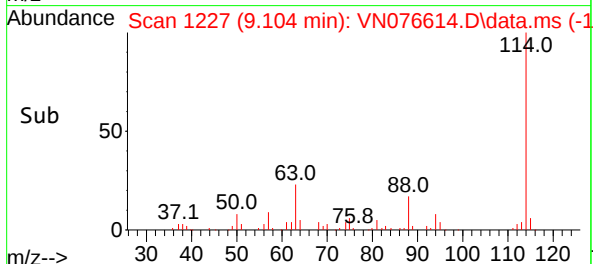
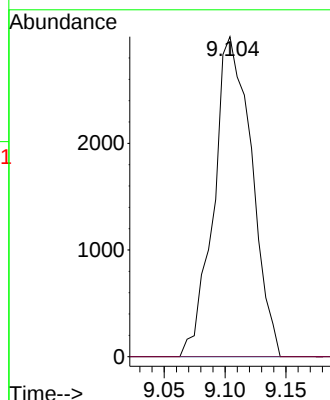
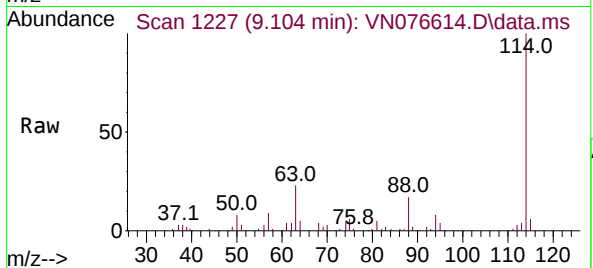
001-WILLETS-PT-BLVD(FEB)

Tgt Ion: 62 Resp: 6502

Ion Ratio Lower Upper

62 100

98 0.0 7.4 11.2#



#50

1,1,2-Trichloroethane

Concen: 0.202 ug/l

RT: 10.880 min Scan# 1529

Delta R.T. -0.138 min

Lab File: VN076614.D

Acq: 10 Feb 2023 17:09

Tgt Ion: 97 Resp: 530

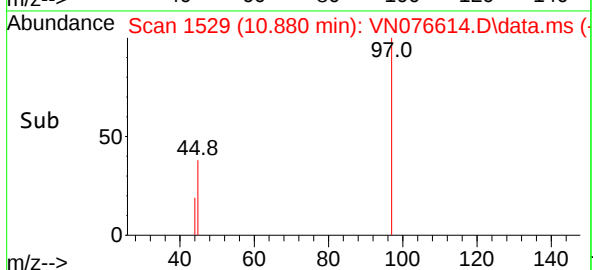
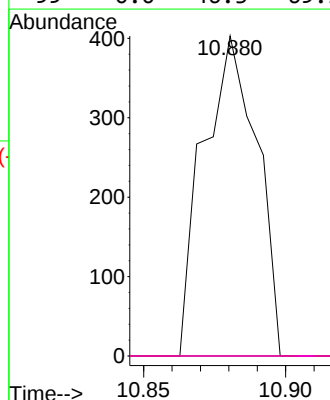
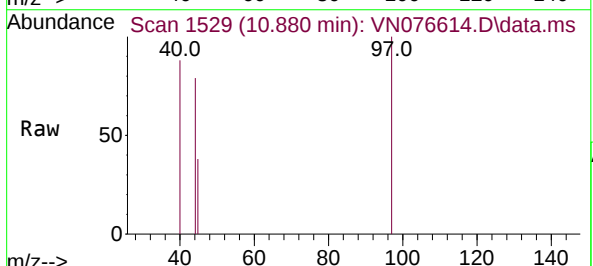
Ion Ratio Lower Upper

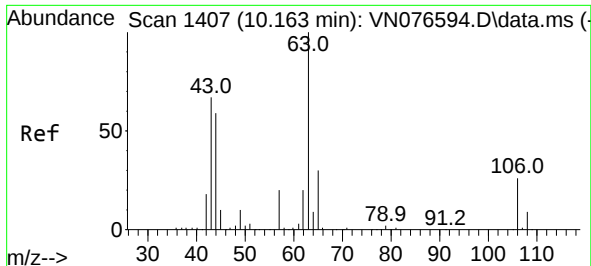
97 100

83 0.0 69.2 103.8#

85 0.0 41.4 62.2#

99 0.0 46.3 69.5#

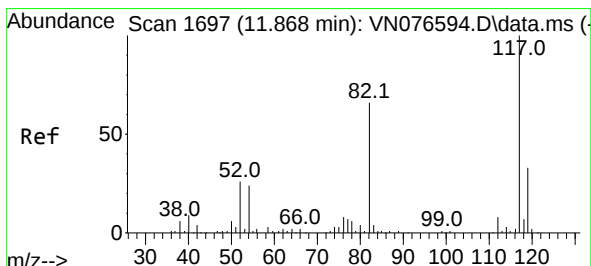
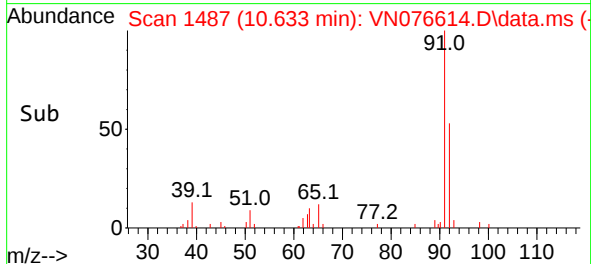
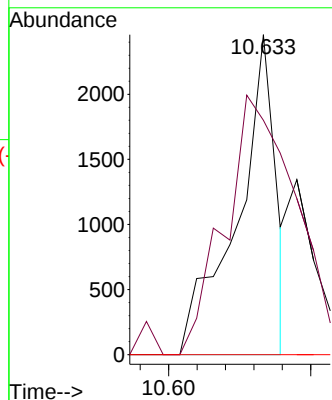
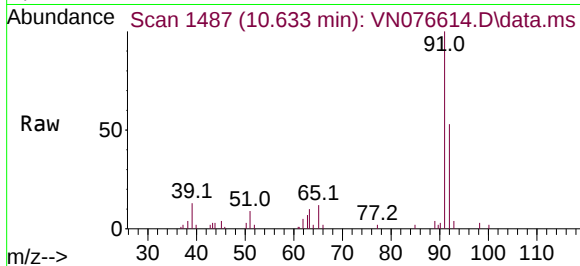




#55
2-Chloroethyl vinyl ether
Concen: 1.235 ug/l
RT: 10.633 min Scan# 1407
Delta R.T. 0.468 min
Lab File: VN076614.D
Acq: 10 Feb 2023 17:09

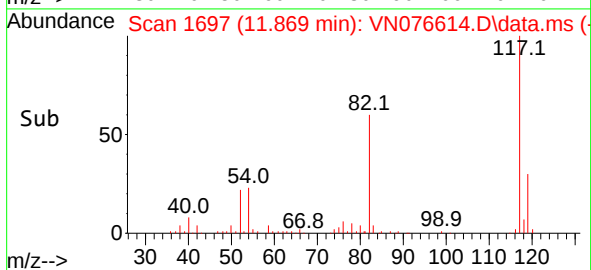
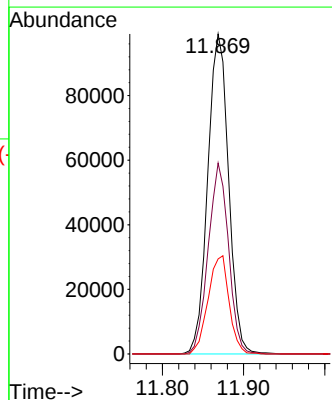
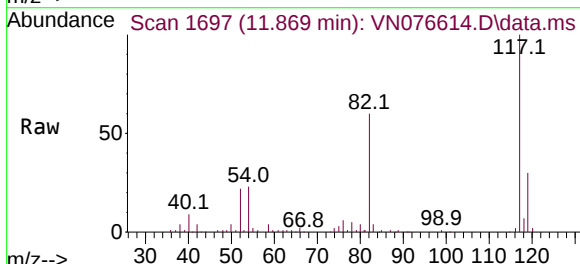
Instrument :
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001-WILLETS-PT-BLVD(FEB)

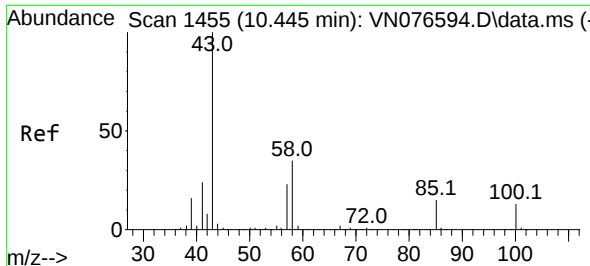
Tgt Ion: 63 Resp: 2349
Ion Ratio Lower Upper
63 100
65 112.3 24.6 36.8#
106 0.0 21.3 31.9#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.869 min Scan# 1697
Delta R.T. -0.002 min
Lab File: VN076614.D
Acq: 10 Feb 2023 17:09

Tgt Ion: 117 Resp: 176692
Ion Ratio Lower Upper
117 100
82 58.1 44.6 67.0
119 30.8 25.6 38.4

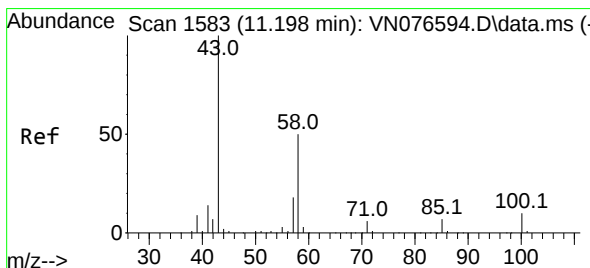
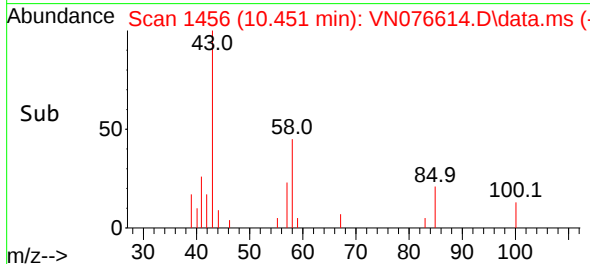
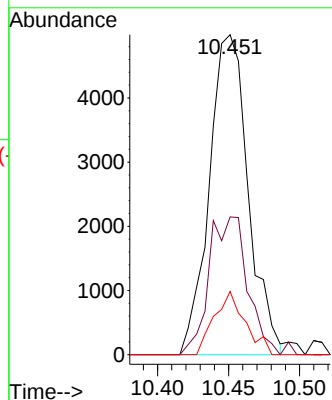
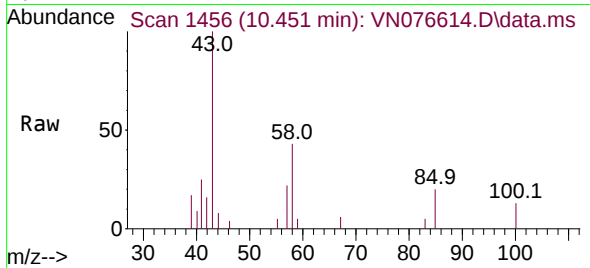




#58
4-Methyl-2-Pentanone
Concen: 1.925 ug/l
RT: 10.451 min Scan# 1455
Delta R.T. 0.004 min
Lab File: VN076614.D
Acq: 10 Feb 2023 17:09

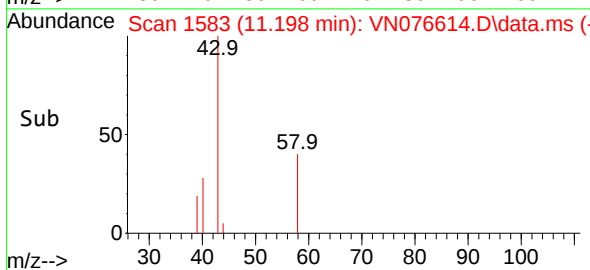
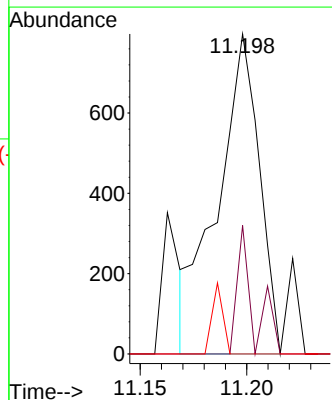
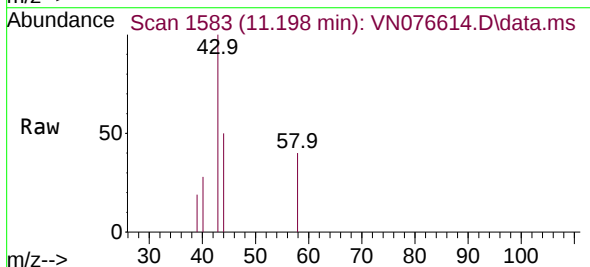
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(FEB)

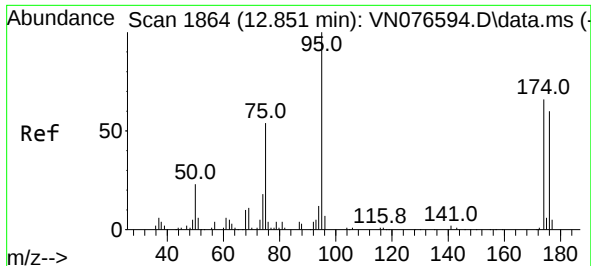
Tgt Ion: 43 Resp: 9510
Ion Ratio Lower Upper
43 100
58 24.0 30.8 46.2#
85 15.7 13.3 19.9



#59
2-Hexanone
Concen: 0.301 ug/l
RT: 11.198 min Scan# 1583
Delta R.T. -0.002 min
Lab File: VN076614.D
Acq: 10 Feb 2023 17:09

Tgt Ion: 43 Resp: 1082
Ion Ratio Lower Upper
43 100
58 10.4 43.6 65.4#
57 0.0 14.3 21.5#

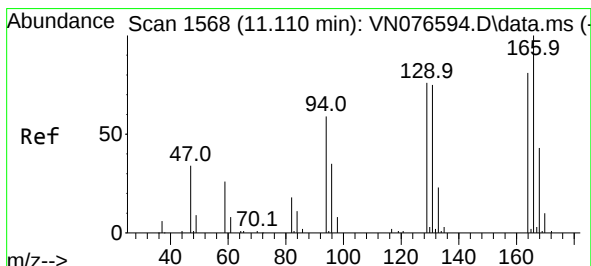
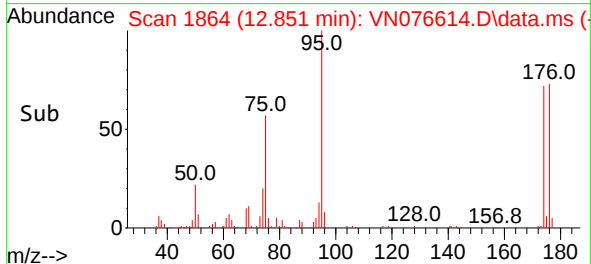
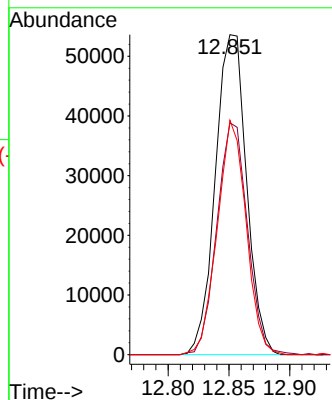
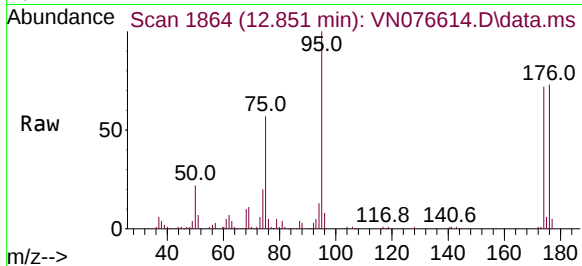




#60
4-Bromofluorobenzene
Concen: 24.031 ug/l
RT: 12.851 min Scan# 11
Delta R.T. -0.002 min
Lab File: VN076614.D
Acq: 10 Feb 2023 17:09

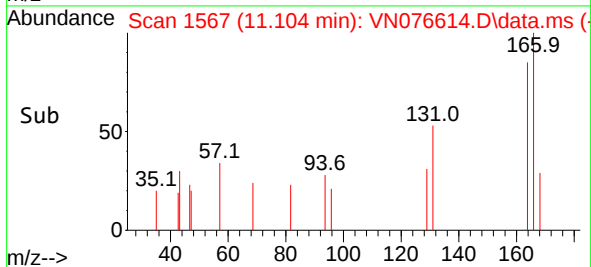
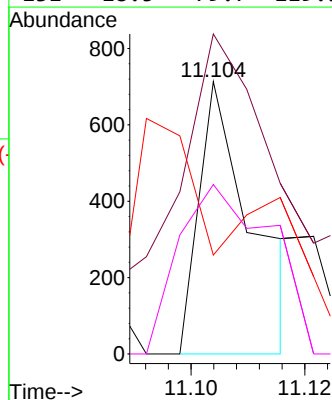
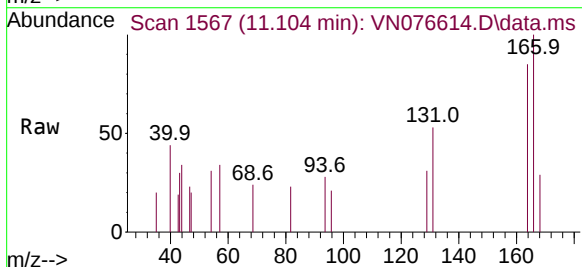
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(FEB)

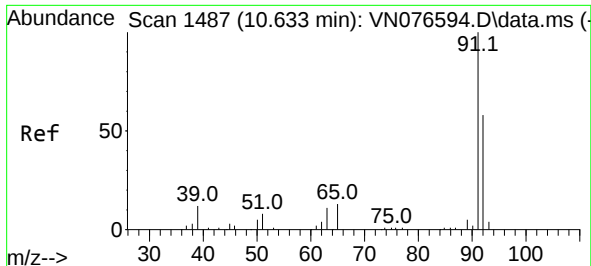
Tgt Ion: 95 Resp: 95860
Ion Ratio Lower Upper
95 100
174 70.9 57.8 86.8
176 67.6 57.0 85.4



#61
Tetrachloroethene
Concen: 0.208 ug/l
RT: 11.104 min Scan# 1567
Delta R.T. -0.002 min
Lab File: VN076614.D
Acq: 10 Feb 2023 17:09

Tgt Ion:164 Resp: 470
Ion Ratio Lower Upper
164 100
166 57.9 99.6 149.4#
129 0.0 84.0 126.0#
131 18.5 79.7 119.5#

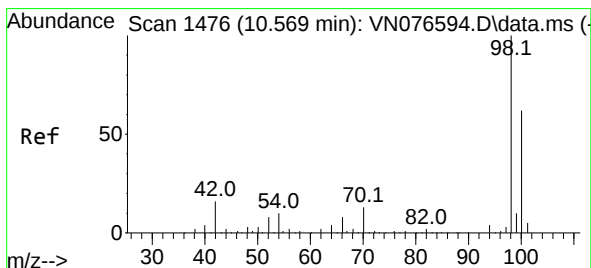
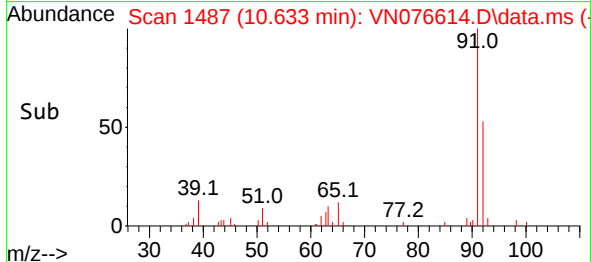
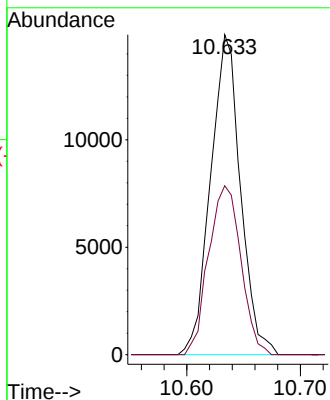
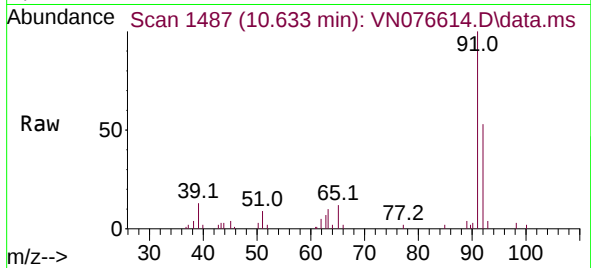




#62
Toluene
Concen: 2.077 ug/l
RT: 10.633 min Scan# 1487
Delta R.T. -0.002 min
Lab File: VN076614.D
Acq: 10 Feb 2023 17:09

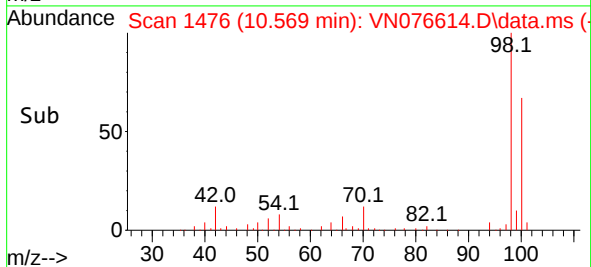
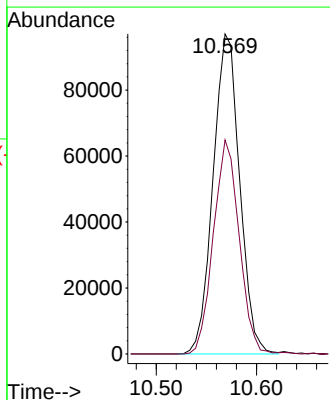
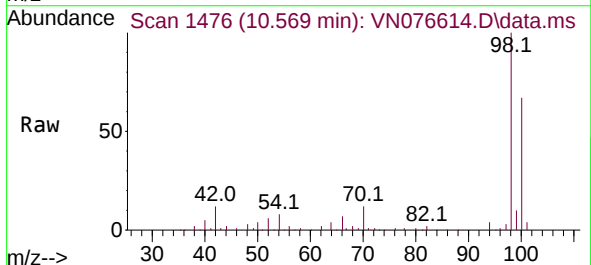
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(FEB)

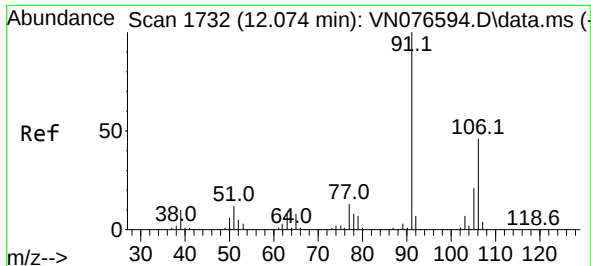
Tgt Ion: 91 Resp: 27211
Ion Ratio Lower Upper
91 100
92 57.2 46.0 69.0



#63
Toluene-d8
Concen: 27.482 ug/l
RT: 10.569 min Scan# 1476
Delta R.T. -0.002 min
Lab File: VN076614.D
Acq: 10 Feb 2023 17:09

Tgt Ion: 98 Resp: 178296
Ion Ratio Lower Upper
98 100
100 64.7 52.7 79.1

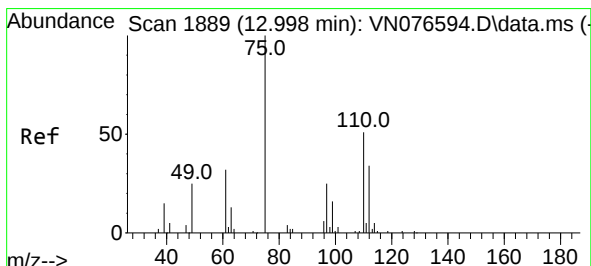
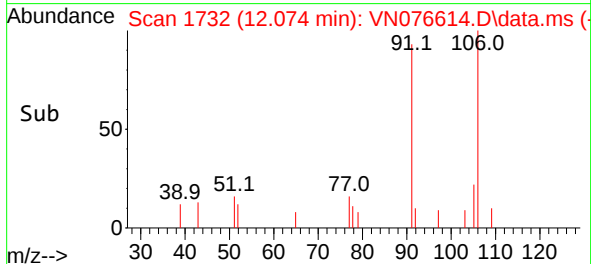
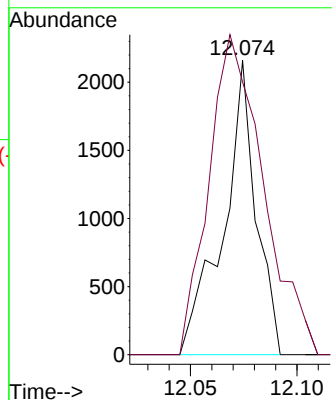
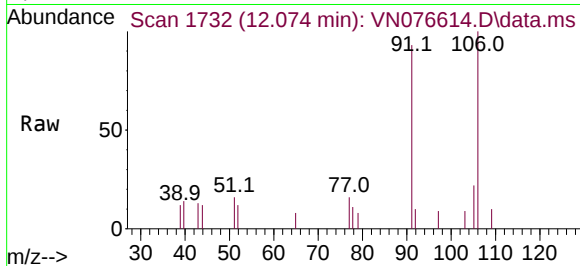




#67
m/p-Xylenes
Concen: 0.428 ug/l
RT: 12.074 min Scan# 11
Delta R.T. -0.002 min
Lab File: VN076614.D
Acq: 10 Feb 2023 17:09

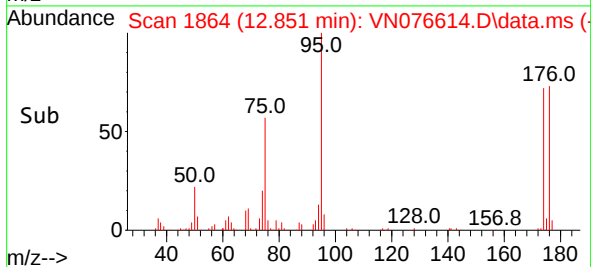
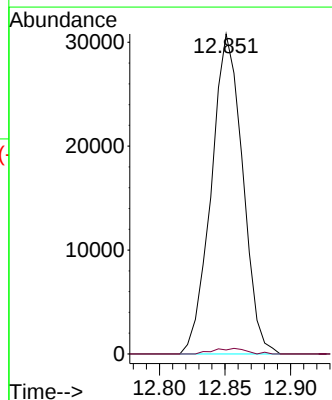
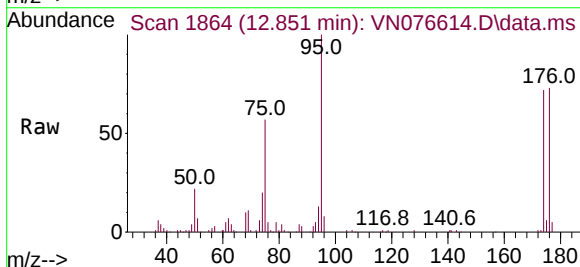
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(FEB)

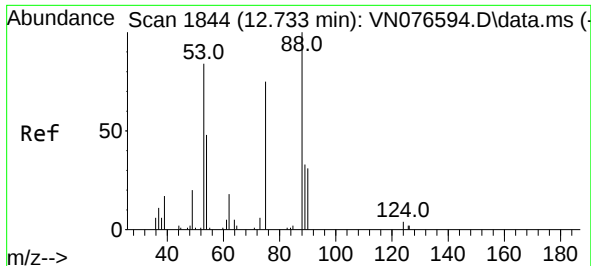
Tgt Ion:106 Resp: 2307
Ion Ratio Lower Upper
106 100
91 181.5 164.2 246.4



#72
1,2,3-Trichloropropane
Concen: 11.305 ug/l
RT: 12.851 min Scan# 1864
Delta R.T. -0.143 min
Lab File: VN076614.D
Acq: 10 Feb 2023 17:09

Tgt Ion: 75 Resp: 51209
Ion Ratio Lower Upper
75 100
77 1.7 0.0 372.4

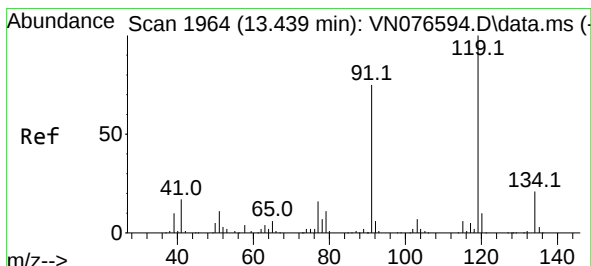
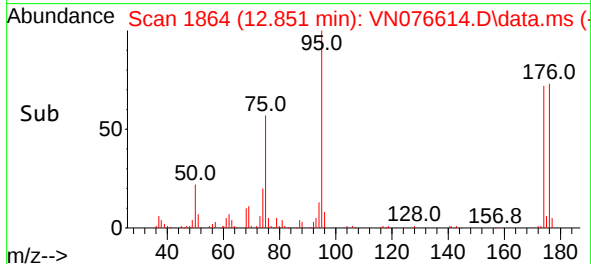
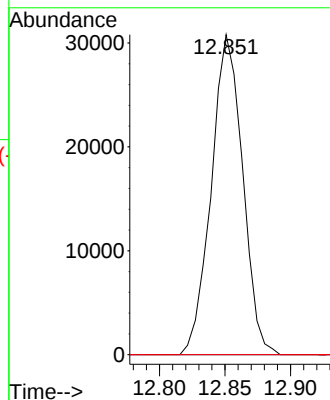
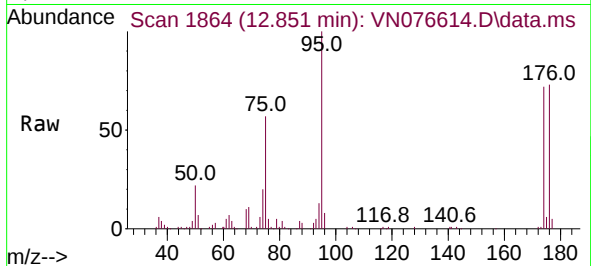




#77
t-1,4-Dichloro-2-butene
Concen: 37.479 ug/l
RT: 12.851 min Scan# 11
Delta R.T. 0.116 min
Lab File: VN076614.D
Acq: 10 Feb 2023 17:09

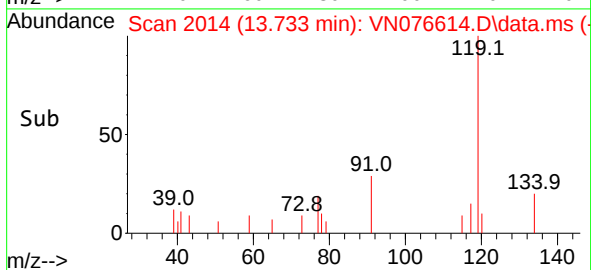
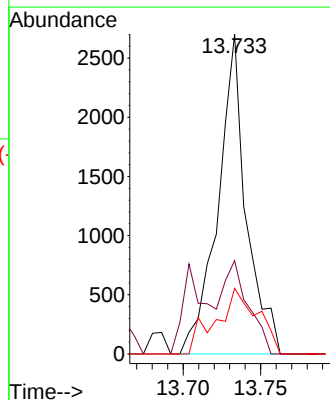
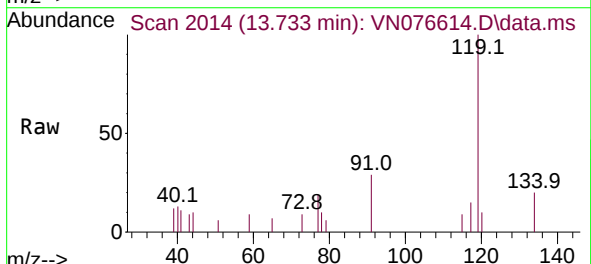
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(FEB)

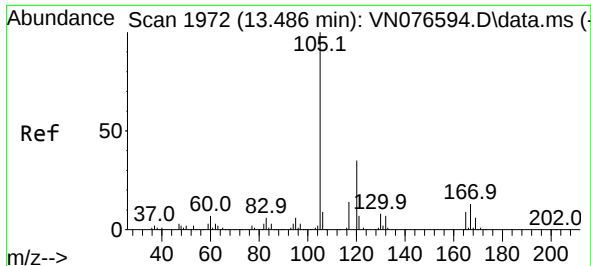
Tgt Ion: 75 Resp: 51209
Ion Ratio Lower Upper
75 100
53 0.0 43.3 129.9#
89 0.0 21.1 63.1#



#79
tert-butylbenzene
Concen: 0.304 ug/l
RT: 13.733 min Scan# 2014
Delta R.T. 0.292 min
Lab File: VN076614.D
Acq: 10 Feb 2023 17:09

Tgt Ion: 119 Resp: 3432
Ion Ratio Lower Upper
119 100
91 25.1 0.0 129.0
134 25.0 0.0 52.2

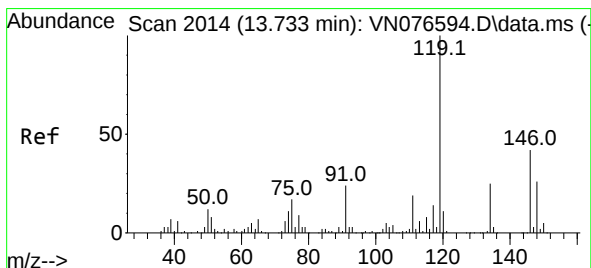
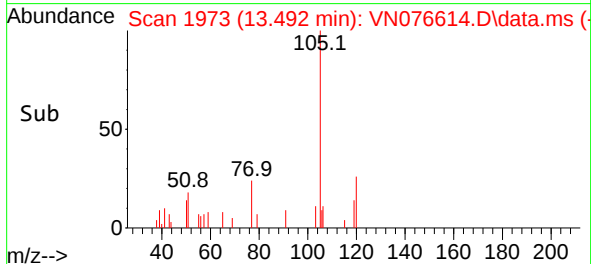
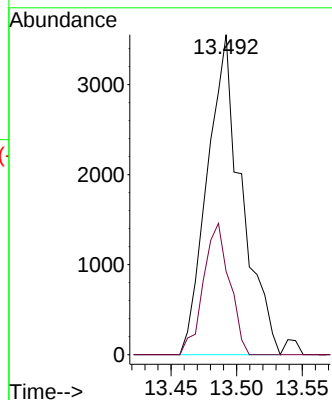
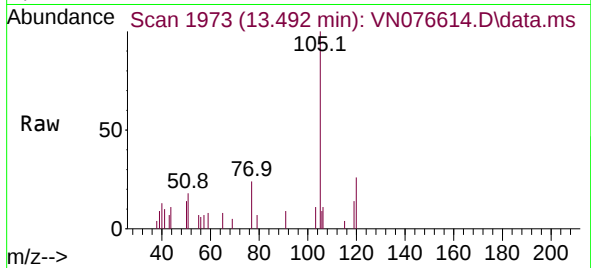




#80
1,2,4-Trimethylbenzene
Concen: 0.494 ug/l
RT: 13.492 min Scan# 1972
Delta R.T. 0.010 min
Lab File: VN076614.D
Acq: 10 Feb 2023 17:09

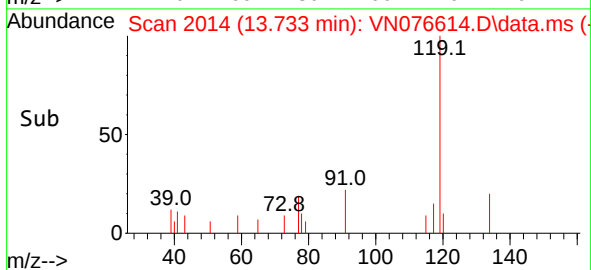
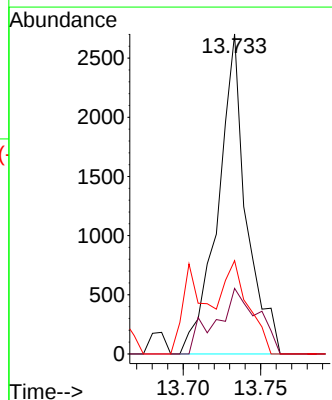
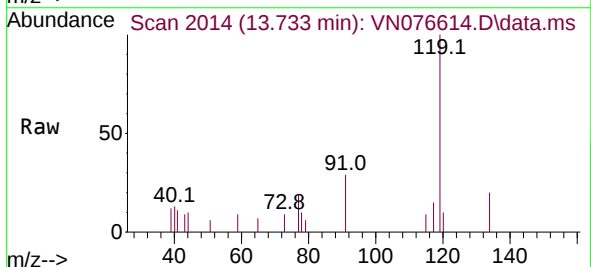
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(FEB)

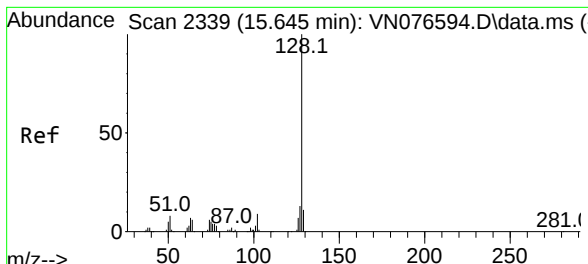
Tgt Ion:105 Resp: 6473
Ion Ratio Lower Upper
105 100
120 31.2 0.0 93.2



#82
p-Isopropyltoluene
Concen: 0.271 ug/l
RT: 13.733 min Scan# 2014
Delta R.T. 0.004 min
Lab File: VN076614.D
Acq: 10 Feb 2023 17:09

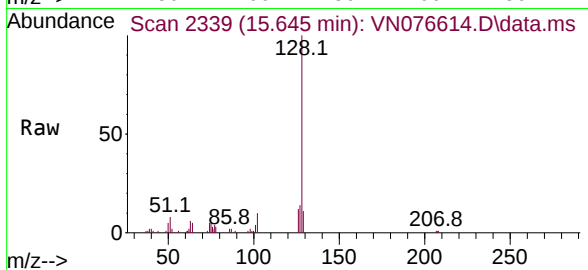
Tgt Ion:119 Resp: 3432
Ion Ratio Lower Upper
119 100
134 25.0 0.0 51.4
91 25.1 0.0 46.8





#91
Naphthalene
Concen: 5.793 ug/l
RT: 15.645 min Scan# 21
Delta R.T. 0.004 min
Lab File: VN076614.D
Acq: 10 Feb 2023 17:09

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



Tgt Ion:	128	Resp:	56497
Ion	Ratio	Lower	Upper
128	100		
127	13.6	10.7	16.1
129	10.5	8.9	13.3

