

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121222\
 Data File : VX033376.D
 Acq On : 12 Dec 2022 15:51
 Operator : JC/MD
 Sample : N5939-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 15 Sample Multiplier: 1

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

Quant Time: Dec 13 07:31:43 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X121222W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Dec 12 12:37:35 2022
 Response via : Initial Calibration

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

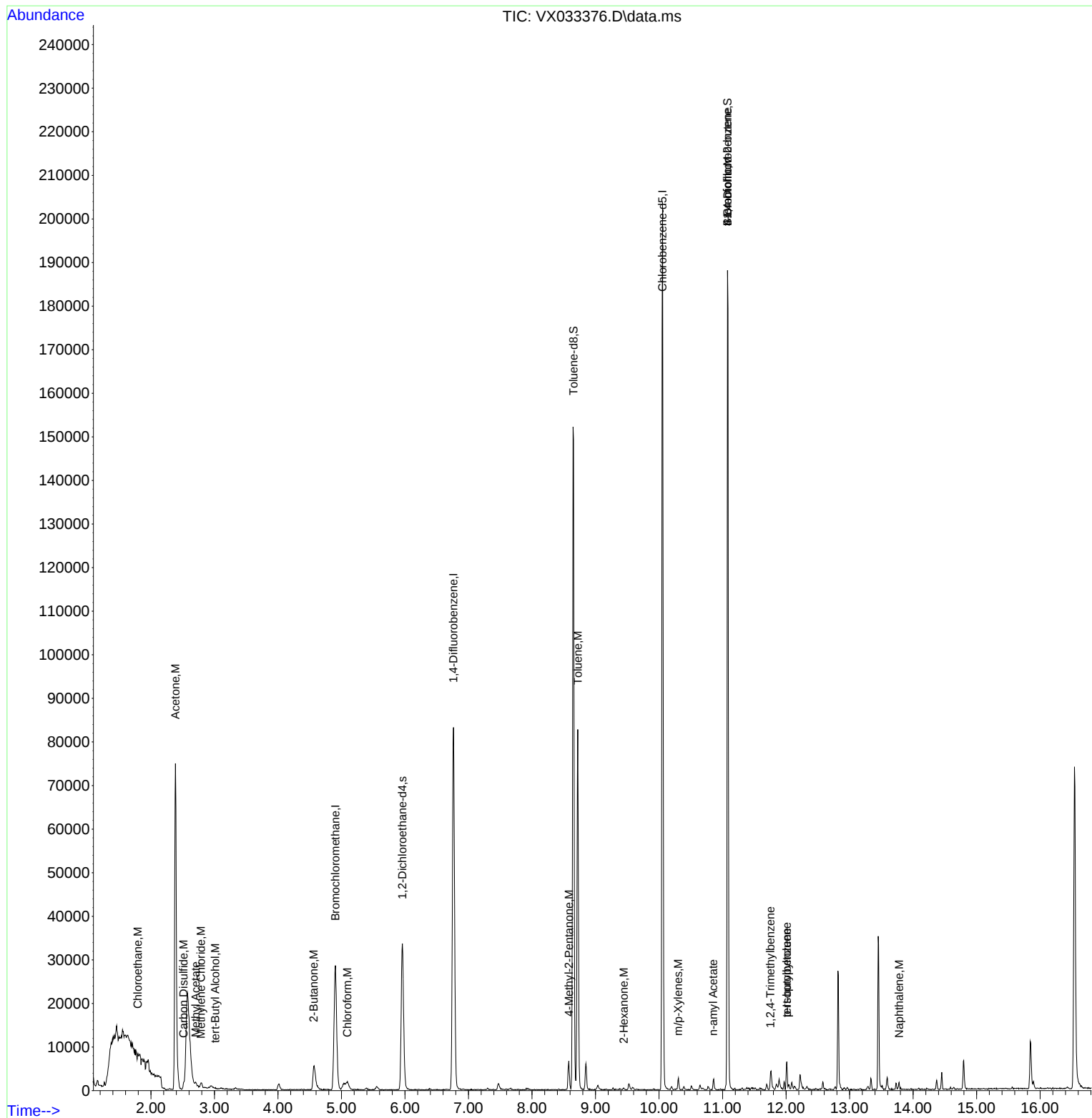
Internal Standards						
1) Bromochloromethane	4.904	128	12419	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	86633	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	93429	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	34454	31.589	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	105.300%
60) 4-Bromofluorobenzene	11.079	95	49768	28.761	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	95.867%
63) Toluene-d8	8.653	98	93287	30.016	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	100.067%
Target Compounds						Qvalue
6) Chloroethane	1.794	64	867	1.068	ug/l #	44
12) Methyl Acetate	2.703	43	819	0.543	ug/l	90
15) Acetone	2.386	58	26400	140.003	ug/l	98
16) Carbon Disulfide	2.514	76	2158	0.748	ug/l #	94
18) Methylene Chloride	2.788	84	298	0.240	ug/l #	83
23) tert-Butyl Alcohol	3.014	59	57	0.243	ug/l #	1
25) Chloroform	5.093	83	1467	0.591	ug/l #	78
30) 2-Butanone	4.562	43	9933	12.136	ug/l	98
47) n-amyl Acetate	10.854	43	468	0.223	ug/l #	8
56) Bromoform	11.079	173	394	0.343	ug/l #	1
58) 4-Methyl-2-Pentanone	8.580	43	4148	2.746	ug/l	99
59) 2-Hexanone	9.445	43	355	0.307	ug/l #	60
62) Toluene	8.720	91	53592	9.450	ug/l	99
67) m/p-Xylenes	10.299	106	645	0.258	ug/l	84
77) t-1,4-Dichloro-2-butene	11.079	75	26101	46.153	ug/l #	9
79) tert-butylbenzene	12.012	119	3134	0.582	ug/l	68
80) 1,2,4-Trimethylbenzene	11.756	105	1526	0.286	ug/l	77
82) p-Isopropyltoluene	12.012	119	3134	0.568	ug/l	96
91) Naphthalene	13.780	128	1233	0.213	ug/l	98

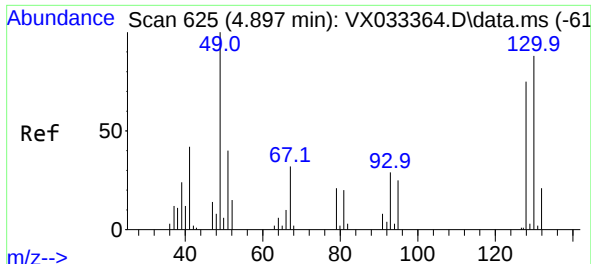
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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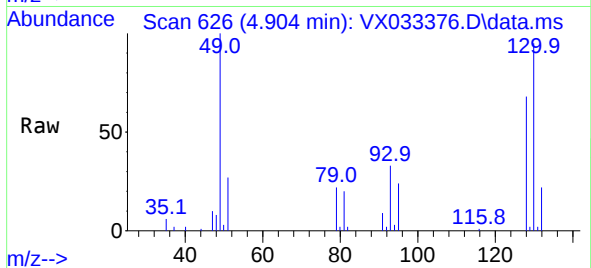
Quant Time: Dec 13 07:31:43 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X121222W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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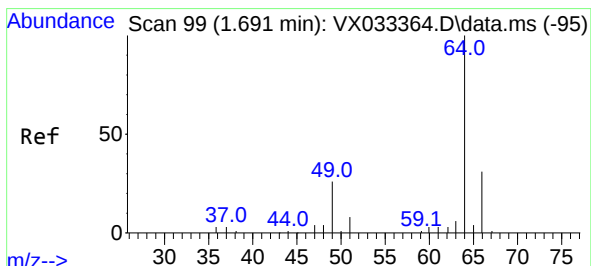
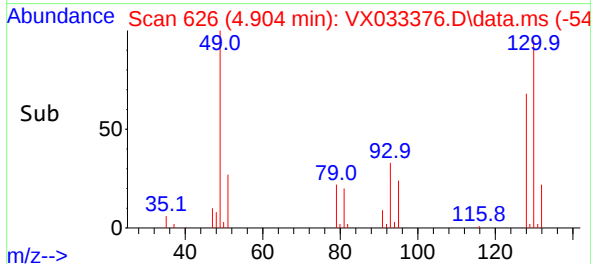
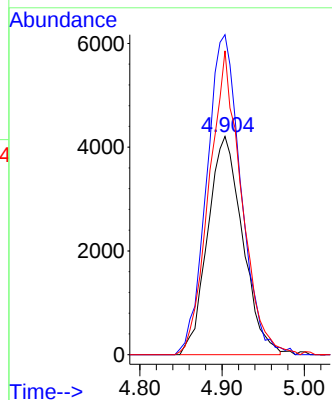


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.904 min Scan# 61
Delta R.T. 0.007 min
Lab File: VX033376.D
Acq: 12 Dec 2022 15:51

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

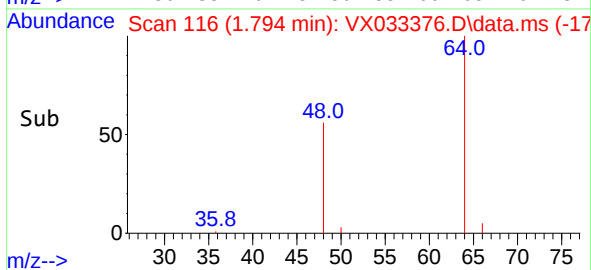
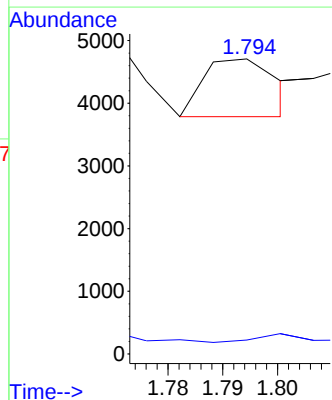
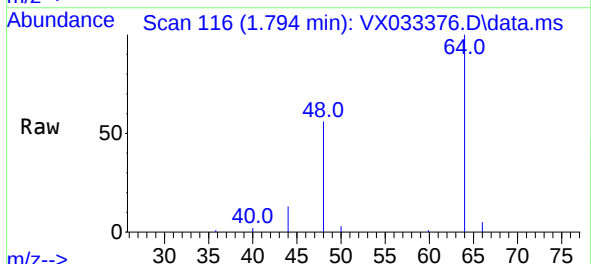


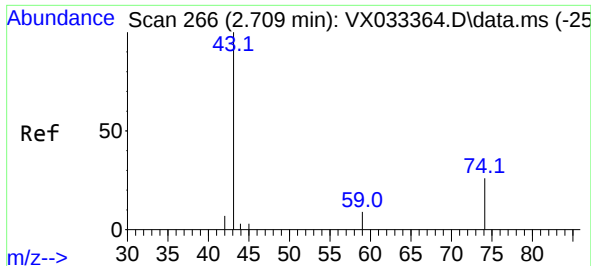
Tgt Ion:128 Resp: 12419
Ion Ratio Lower Upper
128 100
49 143.8 0.0 339.5
130 129.3 0.0 318.0



#6
Chloroethane
Concen: 1.068 ug/l
RT: 1.794 min Scan# 116
Delta R.T. 0.104 min
Lab File: VX033376.D
Acq: 12 Dec 2022 15:51

Tgt Ion: 64 Resp: 867
Ion Ratio Lower Upper
64 100
66 0.0 24.8 37.2#





#12

Methyl Acetate

Concen: 0.543 ug/l

RT: 2.703 min Scan# 2

Delta R.T. -0.006 min

Lab File: VX033376.D

Acq: 12 Dec 2022 15:51

Instrument :

MSVOA_X

ClientSampleId :

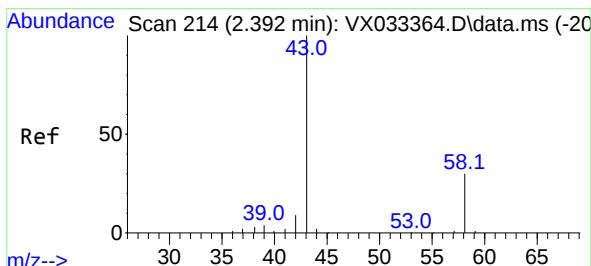
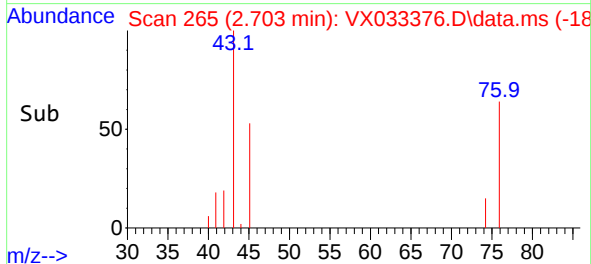
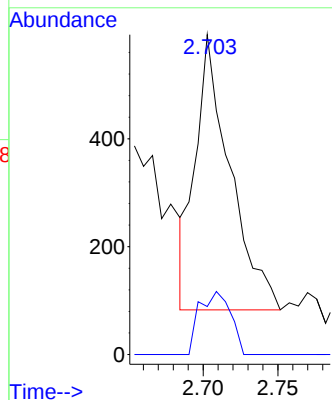
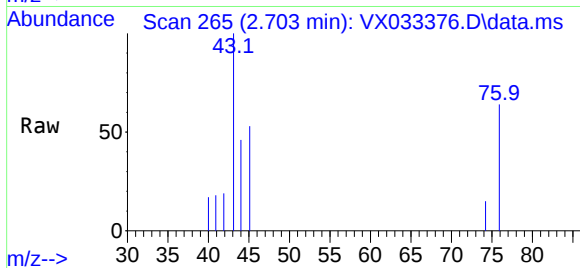
001-WILLETS-PT-BLVD(DEC)

Tgt Ion: 43 Resp: 819

Ion Ratio Lower Upper

43 100

74 21.0 20.6 31.0



#15

Acetone

Concen: 140.003 ug/l

RT: 2.386 min Scan# 213

Delta R.T. -0.006 min

Lab File: VX033376.D

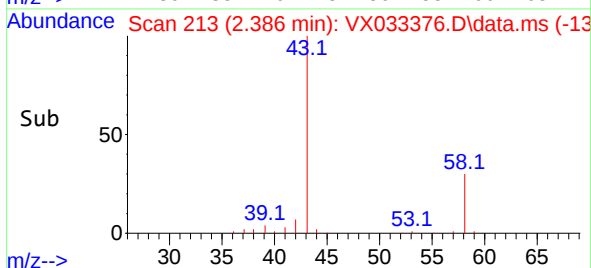
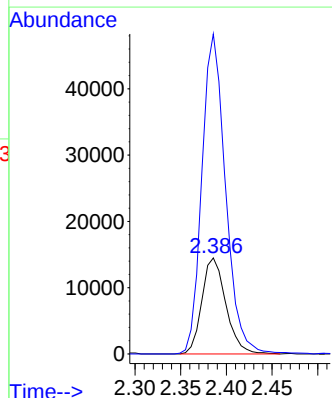
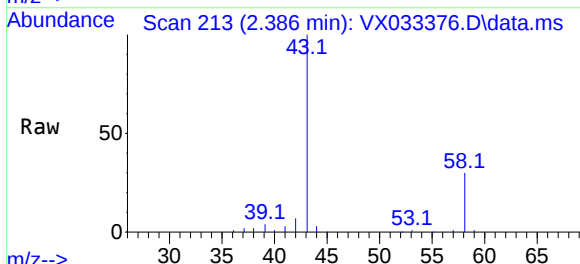
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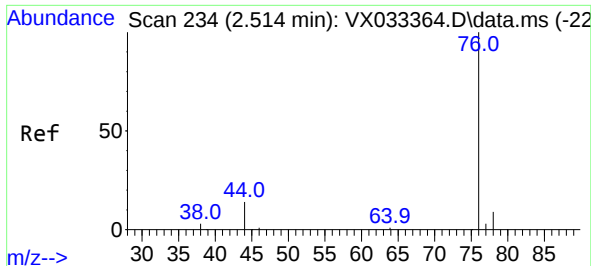
Tgt Ion: 58 Resp: 26400

Ion Ratio Lower Upper

58 100

43 332.6 262.9 394.3

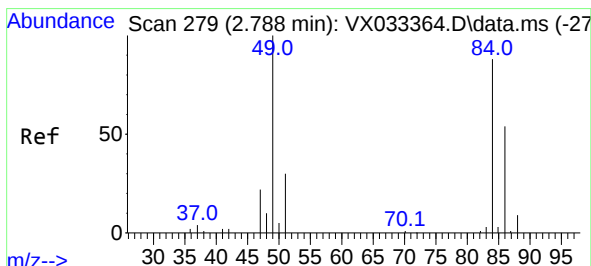
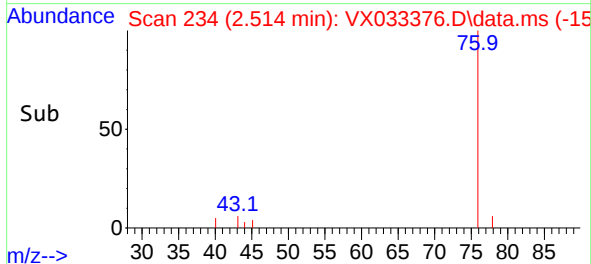
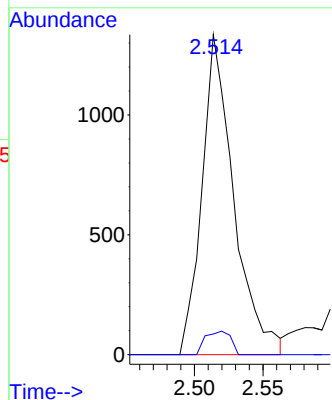
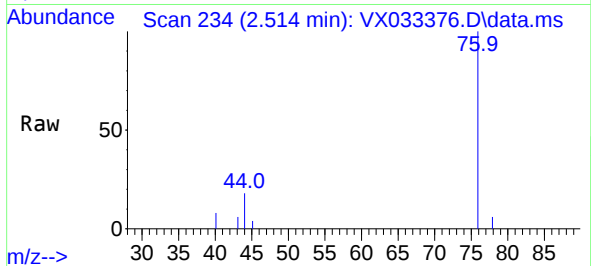




#16
Carbon Disulfide
Concen: 0.748 ug/l
RT: 2.514 min Scan# 2158
Delta R.T. 0.000 min
Lab File: VX033376.D
Acq: 12 Dec 2022 15:51

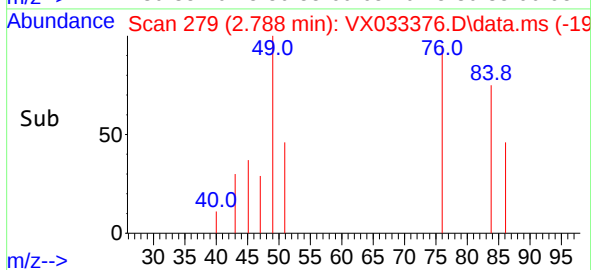
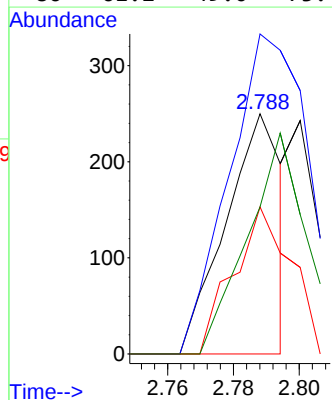
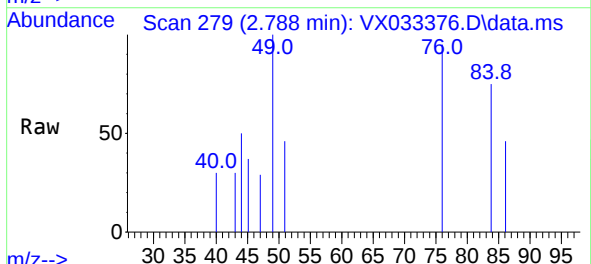
Instrument :
MSVOA_X
ClientSampleId :
001-WILLETS-PT-BLVD(DEC)

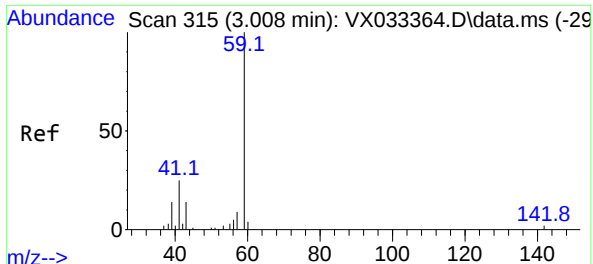
Tgt Ion: 76 Resp: 2158
Ion Ratio Lower Upper
76 100
78 6.4 7.0 10.4#



#18
Methylene Chloride
Concen: 0.240 ug/l
RT: 2.788 min Scan# 279
Delta R.T. 0.000 min
Lab File: VX033376.D
Acq: 12 Dec 2022 15:51

Tgt Ion: 84 Resp: 298
Ion Ratio Lower Upper
84 100
49 133.2 91.2 136.8
51 61.2 27.3 40.9#
86 61.2 49.0 73.4





#23

tert-Butyl Alcohol

Concen: 0.243 ug/l

RT: 3.014 min Scan# 31

Delta R.T. 0.006 min

Lab File: VX033376.D

Acq: 12 Dec 2022 15:51

Instrument :

MSVOA_X

ClientSampleId :

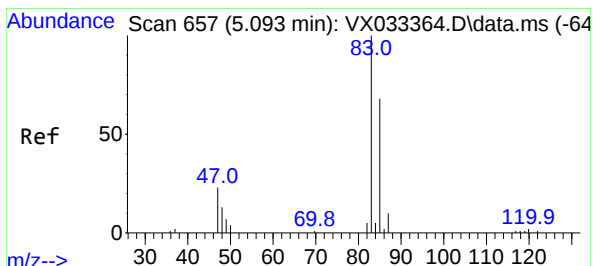
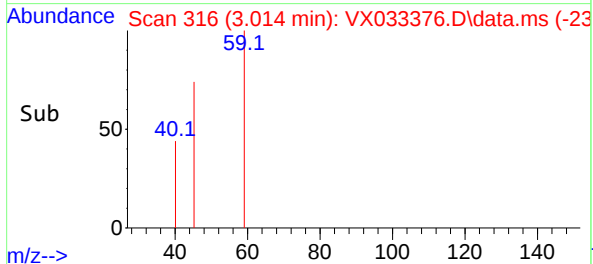
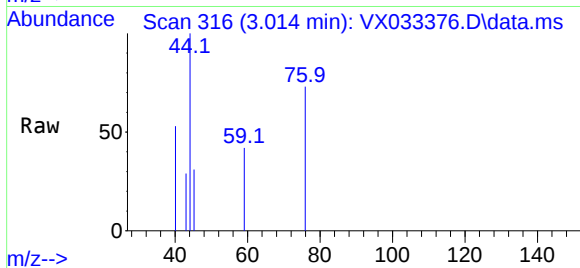
001-WILLETS-PT-BLVD(DEC)

Tgt Ion: 59 Resp: 57

Ion Ratio Lower Upper

59 100

52 0.0 149.0 223.6#



#25

Chloroform

Concen: 0.591 ug/l

RT: 5.093 min Scan# 657

Delta R.T. 0.000 min

Lab File: VX033376.D

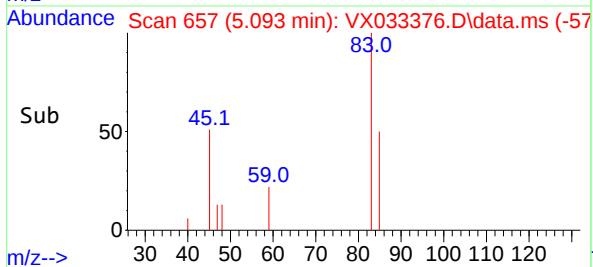
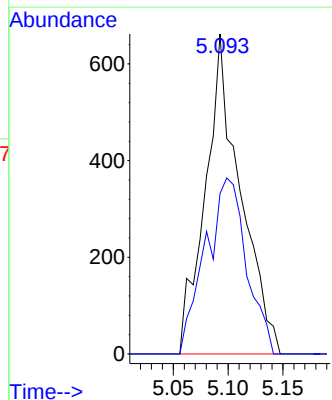
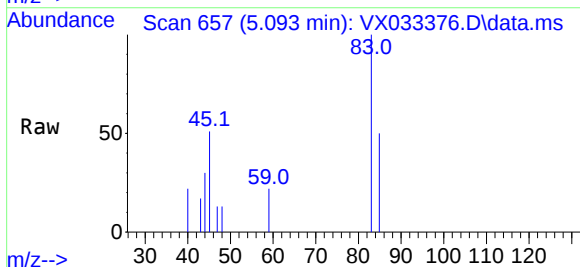
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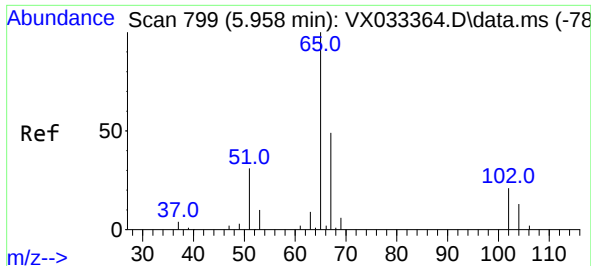
Tgt Ion: 83 Resp: 1467

Ion Ratio Lower Upper

83 100

85 50.2 54.2 81.2#

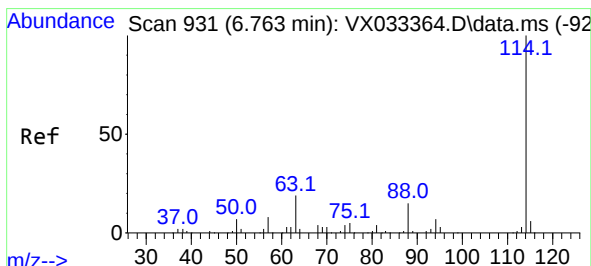
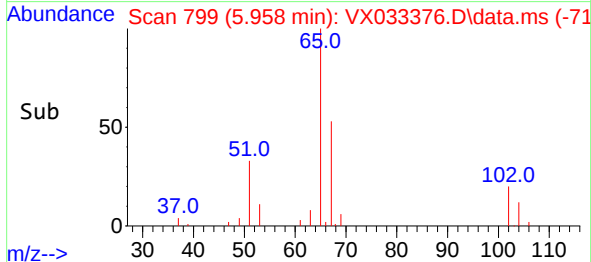
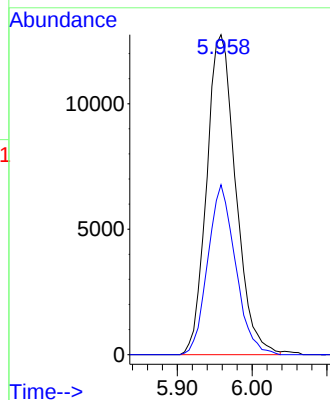
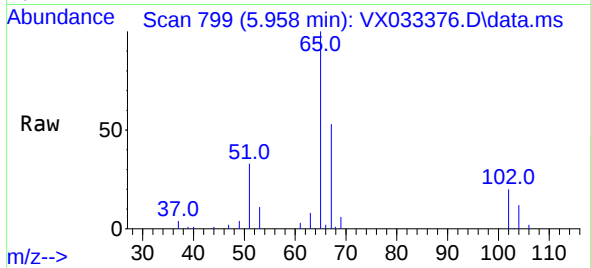




#27
 1,2-Dichloroethane-d4
 Concen: 31.589 ug/l
 RT: 5.958 min Scan# 799
 Delta R.T. 0.000 min
 Lab File: VX033376.D
 Acq: 12 Dec 2022 15:51

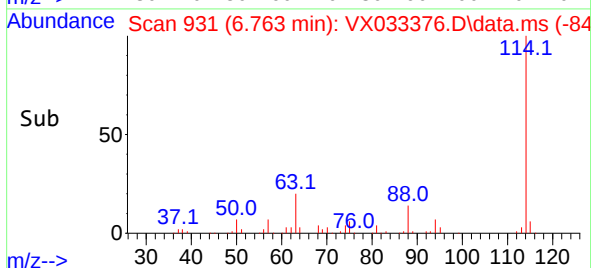
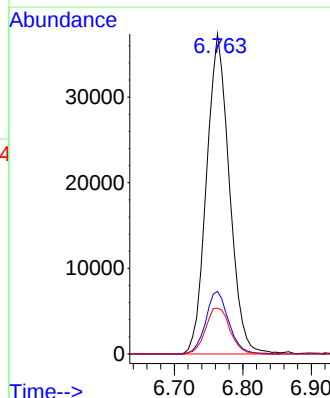
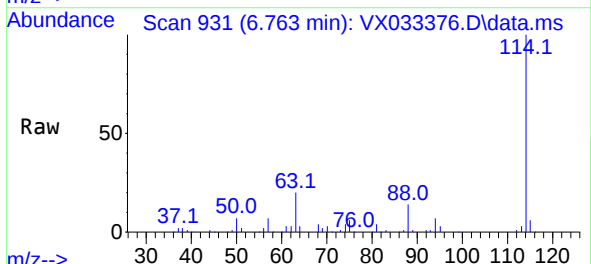
Instrument : MSVOA_X
 ClientSampleId : 001-WILLETS-PT-BLVD(DEC)

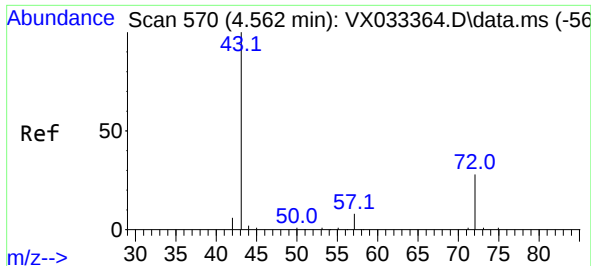
Tgt Ion: 65 Resp: 34454
 Ion Ratio Lower Upper
 65 100
 67 50.7 39.8 59.8



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 6.763 min Scan# 931
 Delta R.T. 0.000 min
 Lab File: VX033376.D
 Acq: 12 Dec 2022 15:51

Tgt Ion: 114 Resp: 86633
 Ion Ratio Lower Upper
 114 100
 63 19.6 15.2 22.8
 88 15.3 12.2 18.4

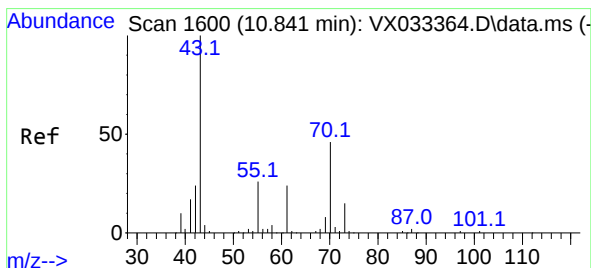
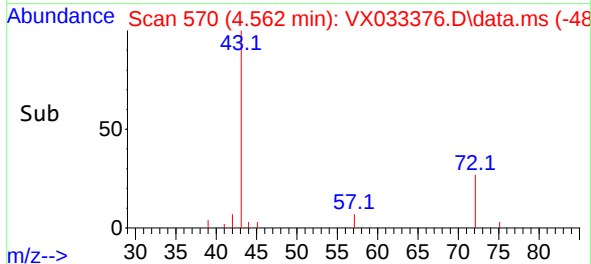
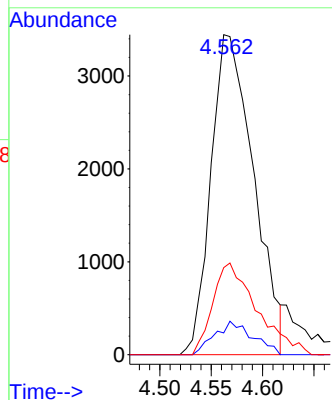
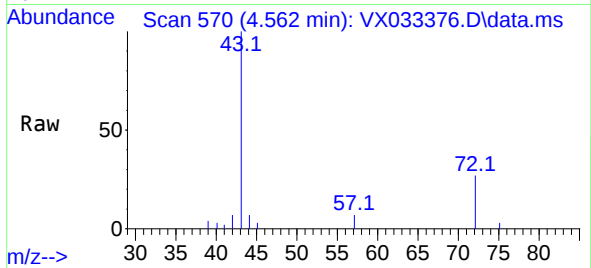




#30
2-Butanone
Concen: 12.136 ug/l
RT: 4.562 min Scan# 51
Delta R.T. 0.000 min
Lab File: VX033376.D
Acq: 12 Dec 2022 15:51

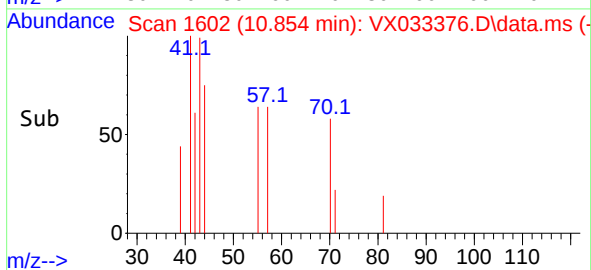
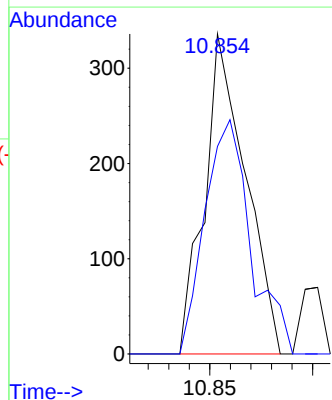
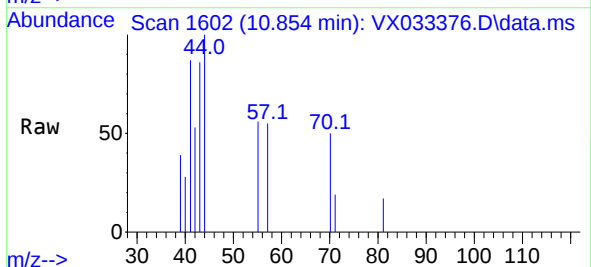
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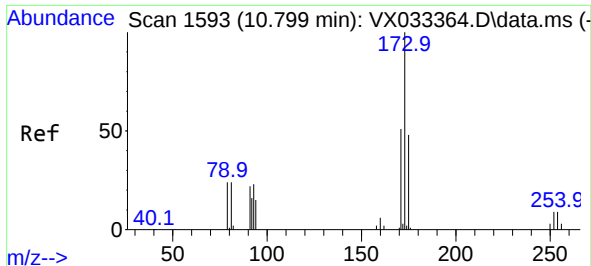
Tgt Ion: 43 Resp: 9933
Ion Ratio Lower Upper
43 100
57 8.0 6.6 9.8
72 29.7 22.5 33.7



#47
n-amy1 Acetate
Concen: 0.223 ug/l
RT: 10.854 min Scan# 1602
Delta R.T. 0.012 min
Lab File: VX033376.D
Acq: 12 Dec 2022 15:51

Tgt Ion: 43 Resp: 468
Ion Ratio Lower Upper
43 100
55 72.2 20.6 30.8#

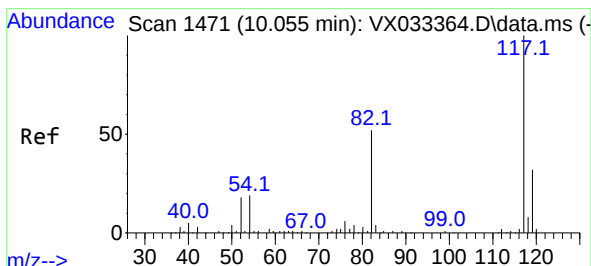
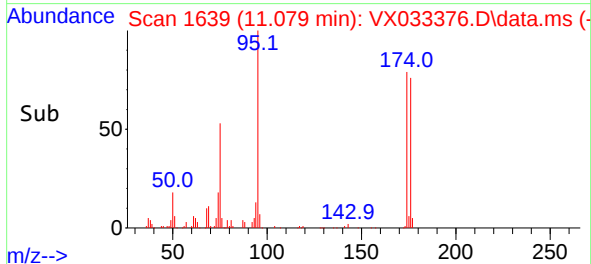
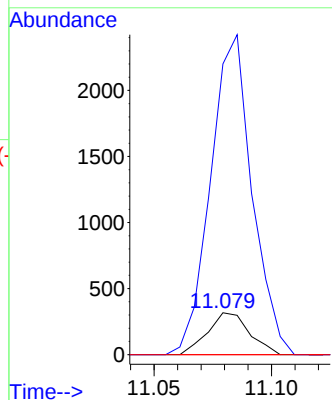
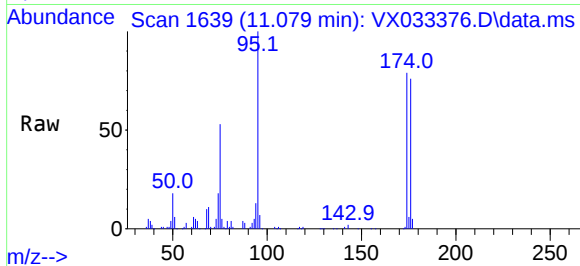




#56
Bromoform
Concen: 0.343 ug/l
RT: 11.079 min Scan# 11
Delta R.T. 0.280 min
Lab File: VX033376.D
Acq: 12 Dec 2022 15:51

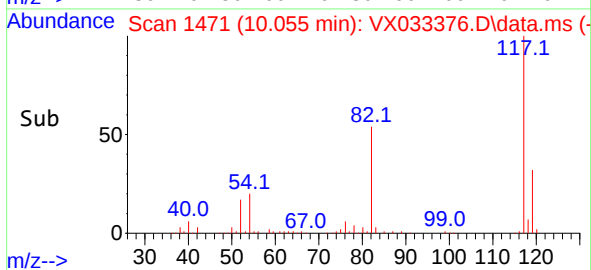
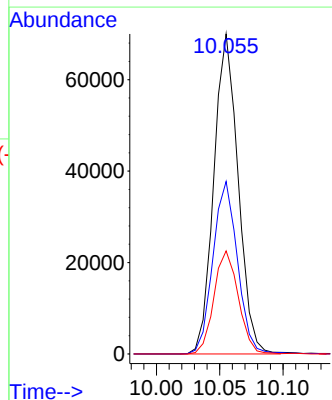
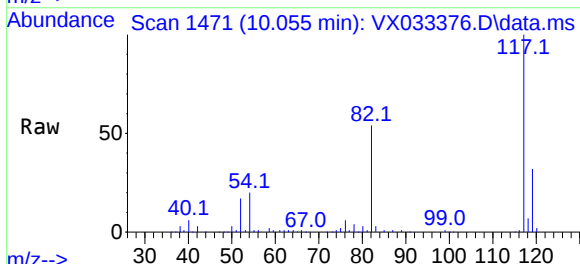
Instrument :
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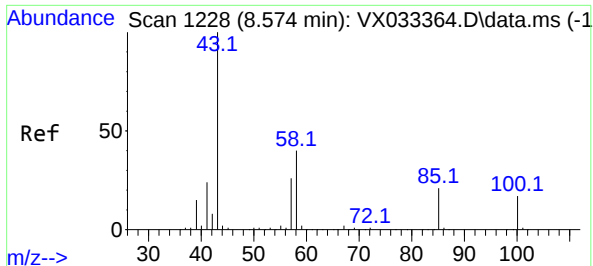
Tgt Ion:173 Resp: 394
Ion Ratio Lower Upper
173 100
175 757.1 39.6 59.4#
254 0.0 7.1 10.7#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX033376.D
Acq: 12 Dec 2022 15:51

Tgt Ion:117 Resp: 93429
Ion Ratio Lower Upper
117 100
82 54.6 43.7 65.5
119 32.4 25.6 38.4





#58

4-Methyl-2-Pentanone

Concen: 2.746 ug/l

RT: 8.580 min Scan# 1371

Delta R.T. 0.006 min

Lab File: VX033376.D

Acq: 12 Dec 2022 15:51

Instrument :

MSVOA_X

ClientSampleId :

001-WILLETS-PT-BLVD(DEC)

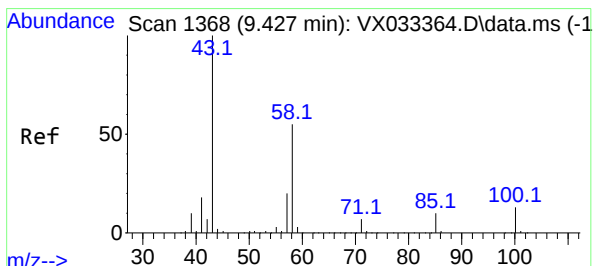
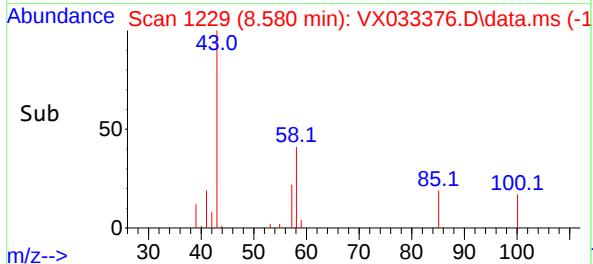
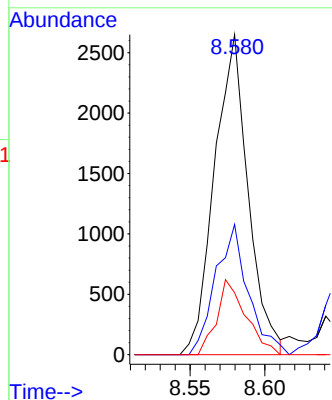
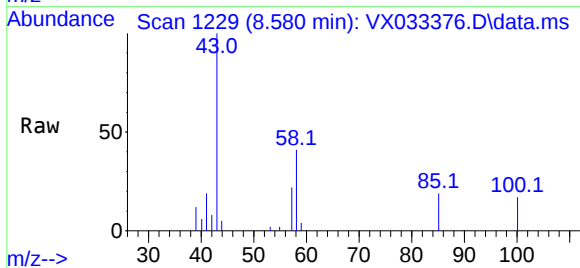
Tgt Ion: 43 Resp: 4148

Ion Ratio Lower Upper

43 100

58 39.5 32.3 48.5

85 20.3 16.6 24.8



#59

2-Hexanone

Concen: 0.307 ug/l

RT: 9.445 min Scan# 1371

Delta R.T. 0.018 min

Lab File: VX033376.D

Acq: 12 Dec 2022 15:51

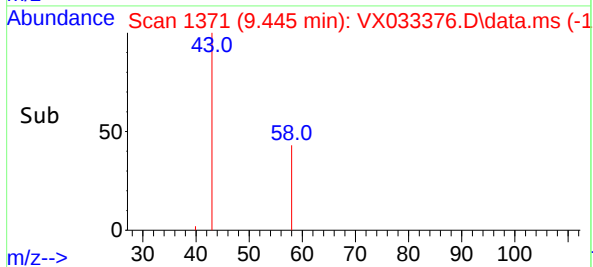
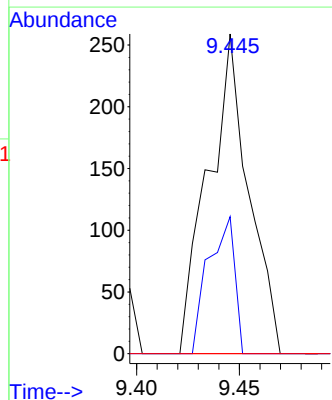
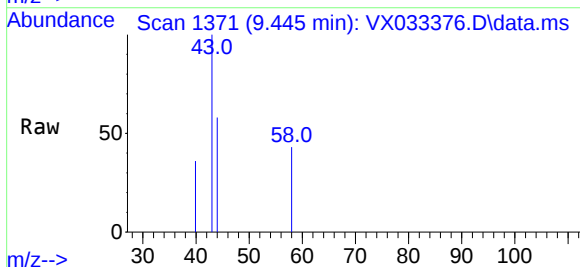
Tgt Ion: 43 Resp: 355

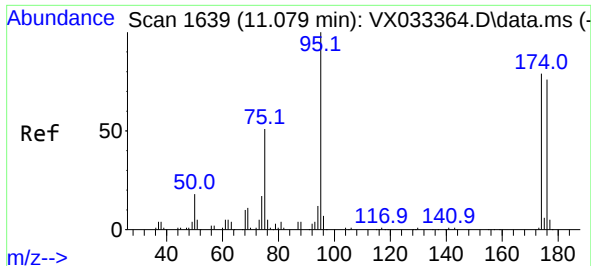
Ion Ratio Lower Upper

43 100

58 27.6 44.4 66.6#

57 0.0 16.2 24.2#

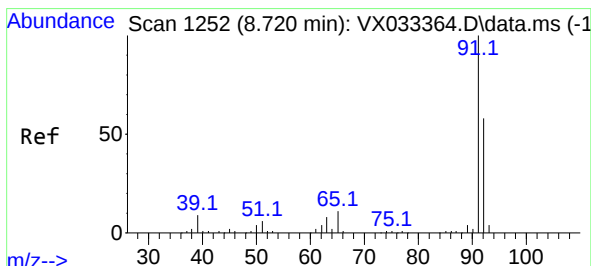
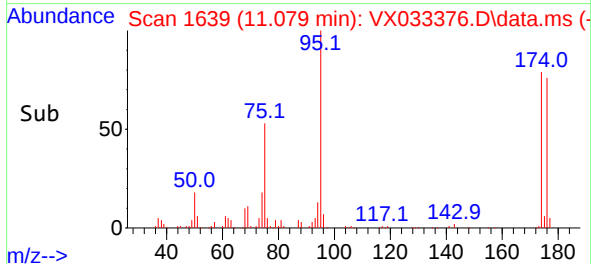
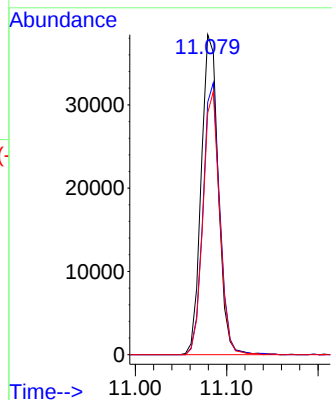
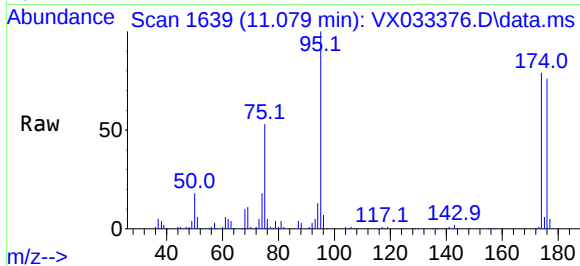




#60
4-Bromofluorobenzene
Concen: 28.761 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX033376.D
Acq: 12 Dec 2022 15:51

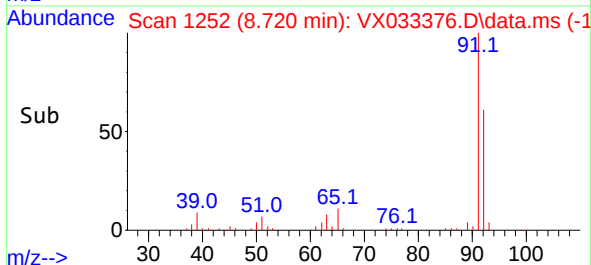
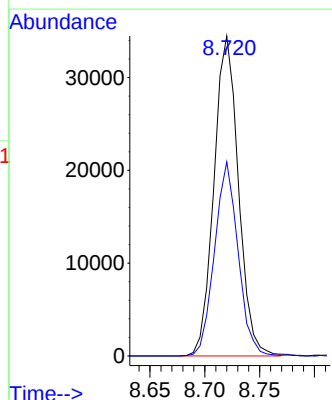
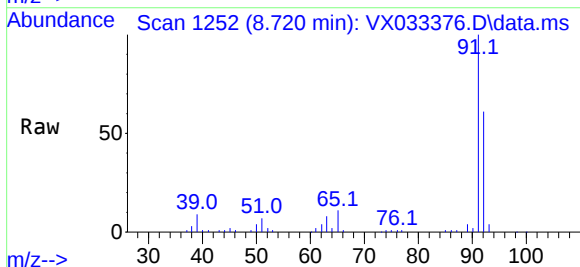
Instrument : MSVOA_X
ClientSampleId : 001-WILLETS-PT-BLVD(DEC)

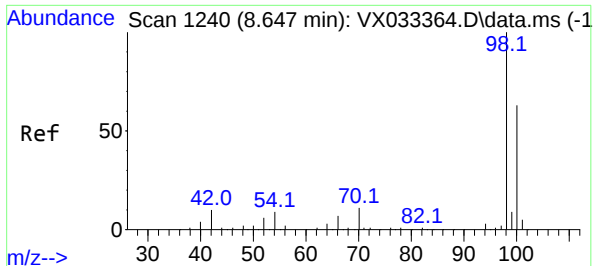
Tgt Ion: 95 Resp: 49768
Ion Ratio Lower Upper
95 100
174 83.4 65.9 98.9
176 80.0 63.3 94.9



#62
Toluene
Concen: 9.450 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX033376.D
Acq: 12 Dec 2022 15:51

Tgt Ion: 91 Resp: 53592
Ion Ratio Lower Upper
91 100
92 58.2 46.2 69.2

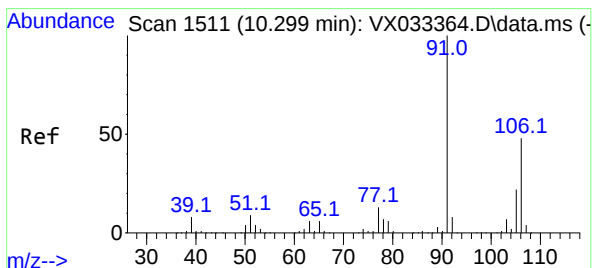
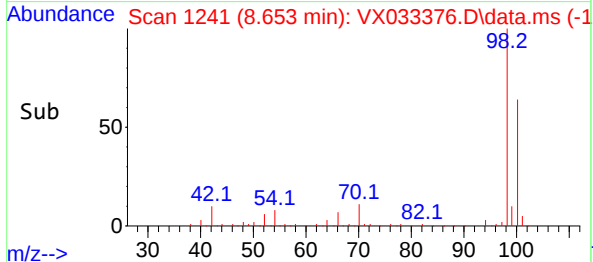
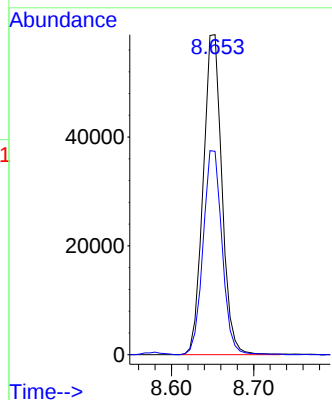
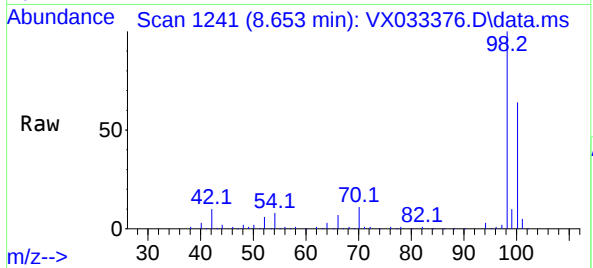




#63
Toluene-d8
Concen: 30.016 ug/l
RT: 8.653 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX033376.D
Acq: 12 Dec 2022 15:51

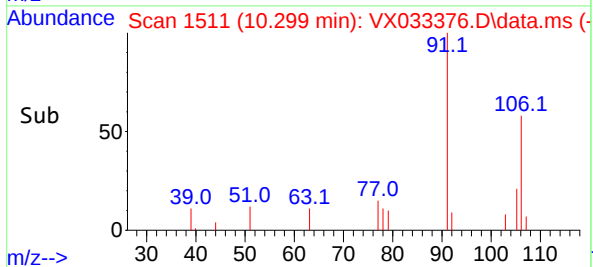
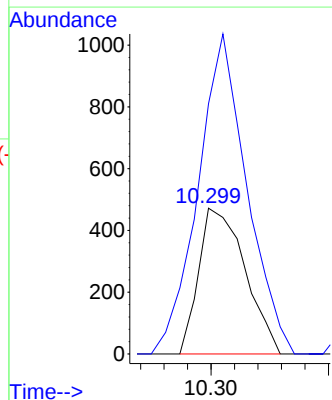
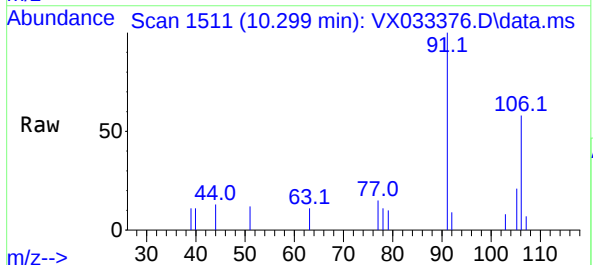
Instrument :
MSVOA_X
ClientSampleId :
001-WILLETS-PT-BLVD(DEC)

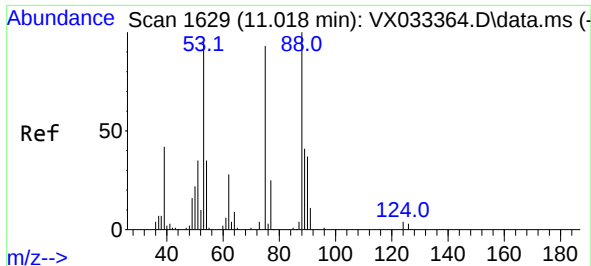
Tgt Ion: 98 Resp: 93287
Ion Ratio Lower Upper
98 100
100 64.4 51.4 77.2



#67
m/p-Xylenes
Concen: 0.258 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX033376.D
Acq: 12 Dec 2022 15:51

Tgt Ion: 106 Resp: 645
Ion Ratio Lower Upper
106 100
91 232.1 165.4 248.2

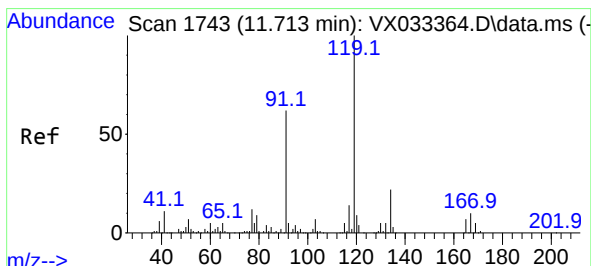
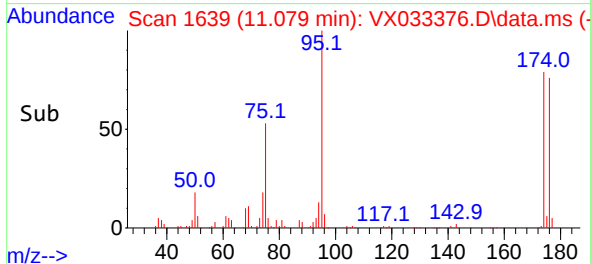
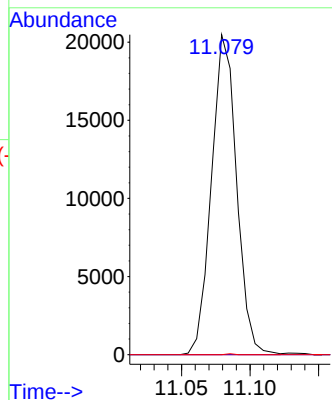
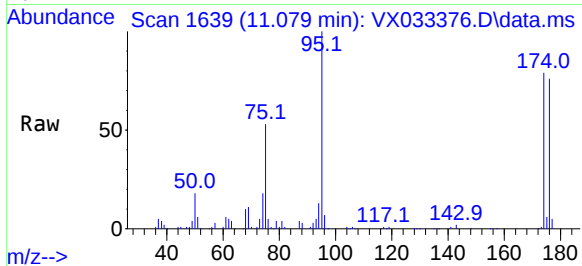




#77
t-1,4-Dichloro-2-butene
Concen: 46.153 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.061 min
Lab File: VX033376.D
Acq: 12 Dec 2022 15:51

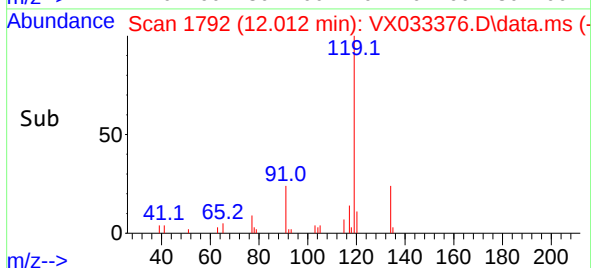
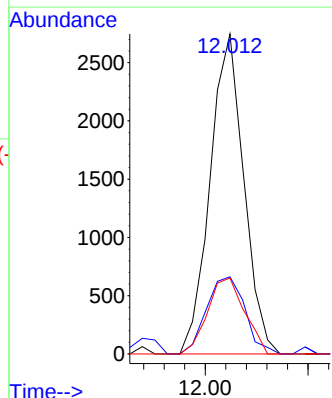
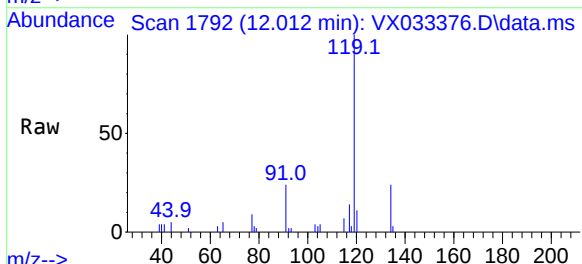
Instrument :
MSVOA_X
ClientSampleId :
001-WILLETS-PT-BLVD(DEC)

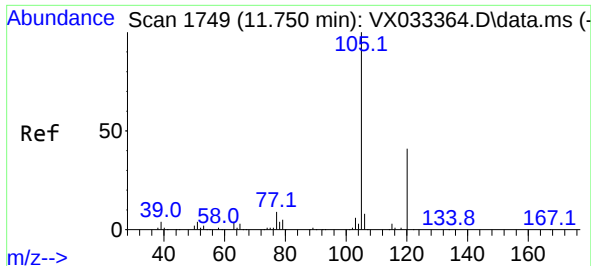
Tgt Ion: 75 Resp: 26101
Ion Ratio Lower Upper
75 100
53 0.0 51.4 154.3#
89 0.0 22.2 66.6#



#79
tert-butylbenzene
Concen: 0.582 ug/l
RT: 12.012 min Scan# 1792
Delta R.T. 0.299 min
Lab File: VX033376.D
Acq: 12 Dec 2022 15:51

Tgt Ion: 119 Resp: 3134
Ion Ratio Lower Upper
119 100
91 27.5 0.0 117.0
134 26.1 0.0 44.4

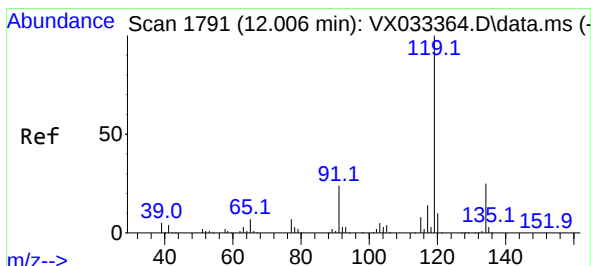
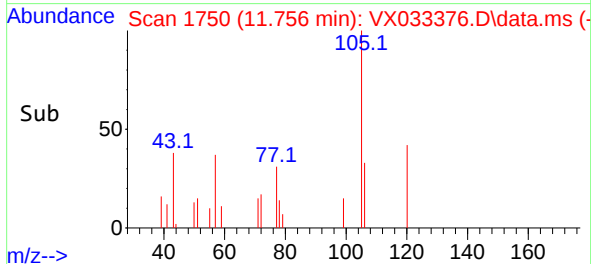
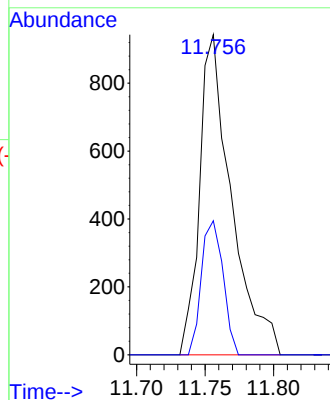
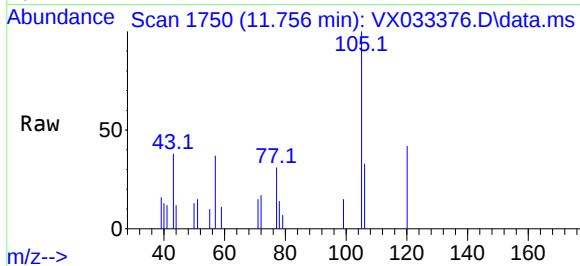




#80
1,2,4-Trimethylbenzene
Concen: 0.286 ug/l
RT: 11.756 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX033376.D
Acq: 12 Dec 2022 15:51

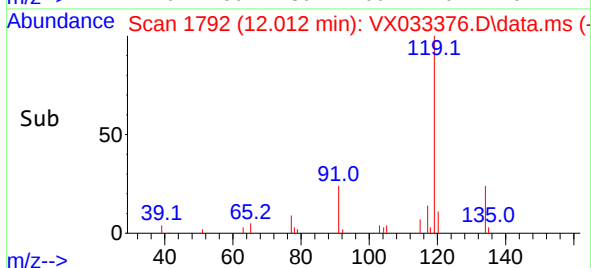
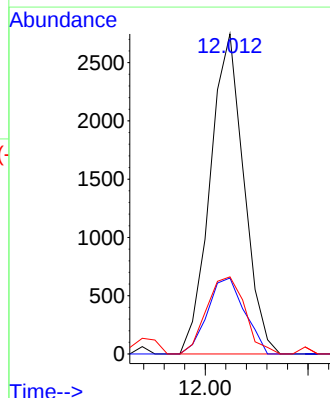
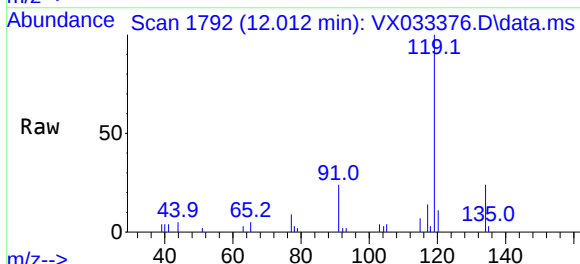
Instrument :
MSVOA_X
ClientSampleId :
001-WILLETS-PT-BLVD(DEC)

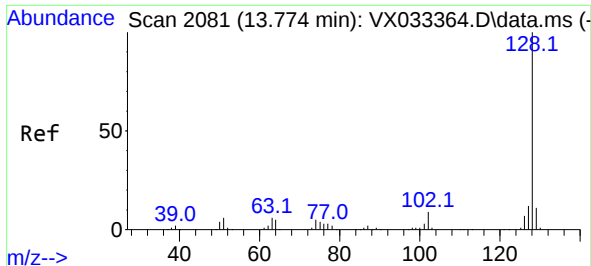
Tgt Ion:105 Resp: 1526
Ion Ratio Lower Upper
105 100
120 28.4 0.0 86.8



#82
p-Isopropyltoluene
Concen: 0.568 ug/l
RT: 12.012 min Scan# 1792
Delta R.T. 0.006 min
Lab File: VX033376.D
Acq: 12 Dec 2022 15:51

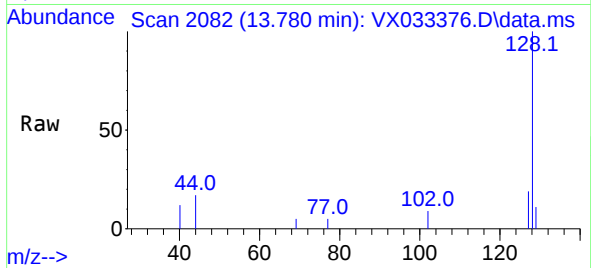
Tgt Ion:119 Resp: 3134
Ion Ratio Lower Upper
119 100
134 26.1 0.0 52.6
91 27.5 0.0 47.2





#91
Naphthalene
Concen: 0.213 ug/l
RT: 13.780 min Scan# 2082
Delta R.T. 0.006 min
Lab File: VX033376.D
Acq: 12 Dec 2022 15:51

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



Tgt Ion:128 Resp: 1233

Ion	Ratio	Lower	Upper
128	100		
127	13.6	9.9	14.9
129	11.3	8.8	13.2

