

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072823\
 Data File : VX036697.D
 Acq On : 28 Jul 2023 11:16
 Operator : JC/MD
 Sample : 03790-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

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

Quant Time: Jul 28 16:16:36 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X071423W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 14 04:32:22 2023
 Response via : Initial Calibration

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

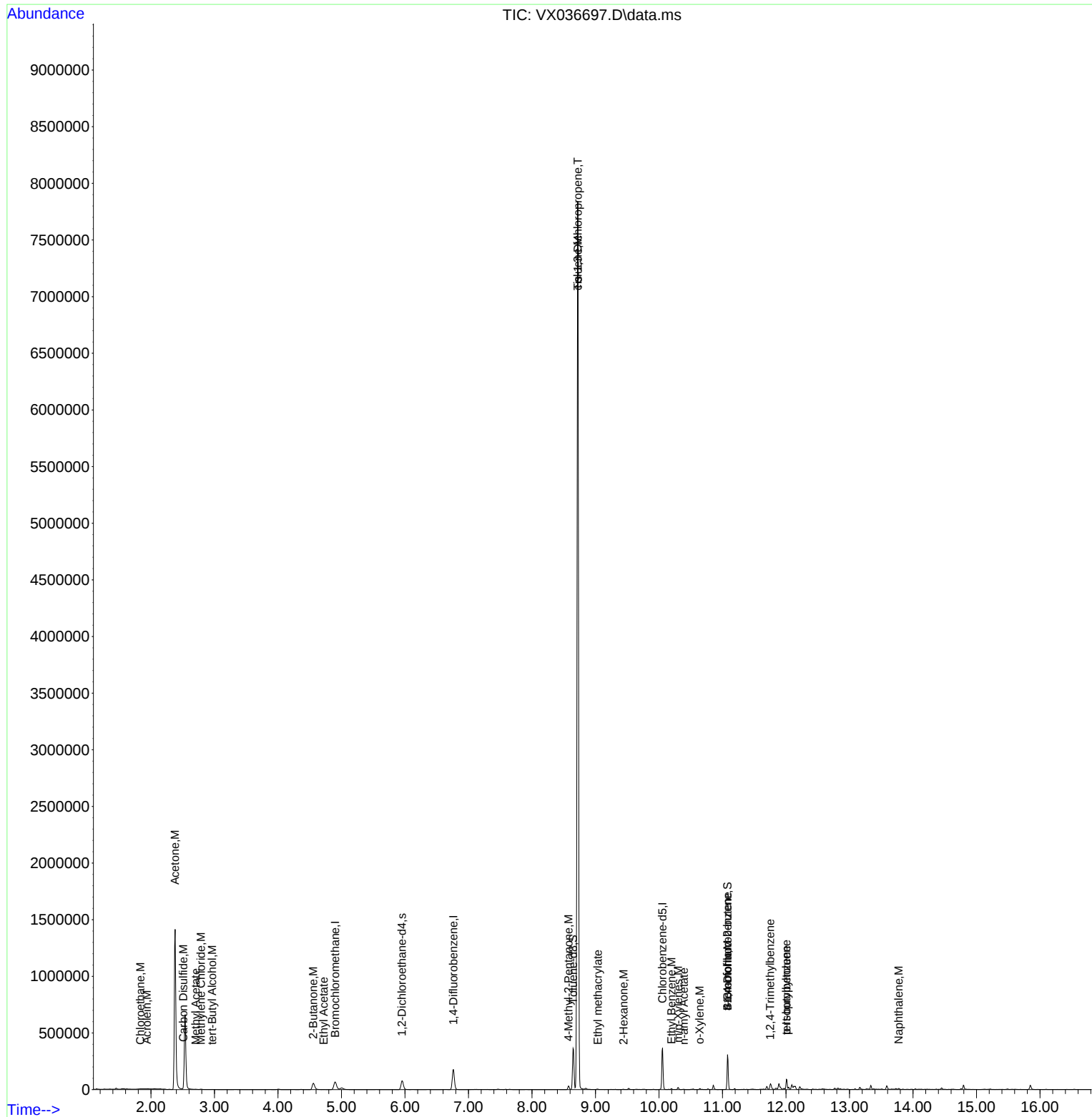
Internal Standards						
1) Bromochloromethane	4.898	128	30769	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	182565	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	165456	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	75015	29.375	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	97.900%
60) 4-Bromofluorobenzene	11.079	95	79905	29.772	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	99.233%
63) Toluene-d8	8.647	98	221897	29.145	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	97.133%
Target Compounds						
					Qvalue	
6) Chloroethane	1.831	64	5078	3.076	ug/l #	54
12) Methyl Acetate	2.703	43	2216	0.524	ug/l #	88
13) Acrolein	1.935	56	148	0.426	ug/l	84
15) Acetone	2.380	58	493618	1469.663	ug/l	87
16) Carbon Disulfide	2.508	76	3391	0.776	ug/l	99
18) Methylene Chloride	2.788	84	1449	0.668	ug/l #	89
23) tert-Butyl Alcohol	2.965	59	1294	2.349	ug/l #	1
30) 2-Butanone	4.556	43	97135	56.036	ug/l	99
43) Ethyl Acetate	4.721	43	694	0.206	ug/l #	86
47) n-amyl Acetate	10.390	43	1243	0.272	ug/l	100
49) cis-1,3-Dichloropropene	8.720	75	38336	10.700	ug/l #	1
51) Ethyl methacrylate	9.037	69	797	0.224	ug/l	92
56) Bromoform	11.079	173	456	0.287	ug/l #	1
58) 4-Methyl-2-Pentanone	8.574	43	19254	5.628	ug/l	97
59) 2-Hexanone	9.439	43	1525	0.586	ug/l #	87
62) Toluene	8.720	91	5002828	538.901	ug/l	93
66) Ethyl Benzene	10.195	91	4957	0.491	ug/l	95
67) m/p-Xylenes	10.299	106	4232	1.076	ug/l	90
68) o-Xylene	10.640	106	1958	0.502	ug/l	99
77) t-1,4-Dichloro-2-butene	11.079	75	41690	38.608	ug/l #	7
79) tert-butylbenzene	12.006	119	40070	5.053	ug/l	63
80) 1,2,4-Trimethylbenzene	11.750	105	12049	1.455	ug/l	47
82) p-Isopropyltoluene	12.006	119	40070	4.825	ug/l	99
91) Naphthalene	13.774	128	5238	0.528	ug/l	100

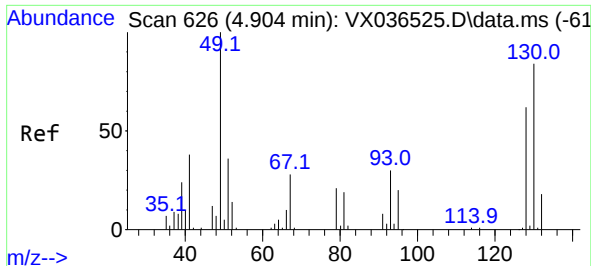
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Jul 14 04:32:22 2023
Response via : Initial Calibration

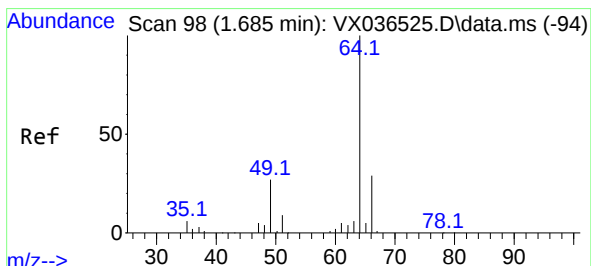
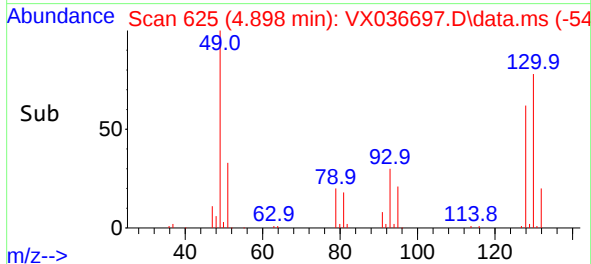
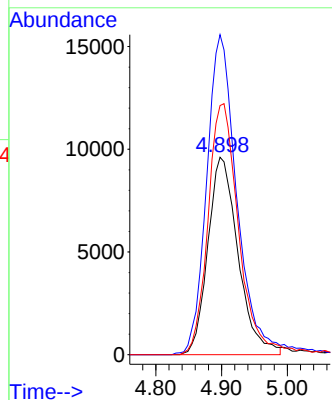
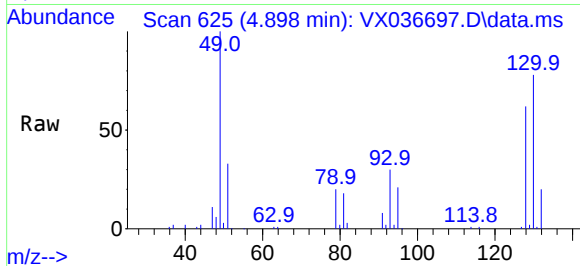




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.898 min Scan# 61
Delta R.T. -0.006 min
Lab File: VX036697.D
Acq: 28 Jul 2023 11:16

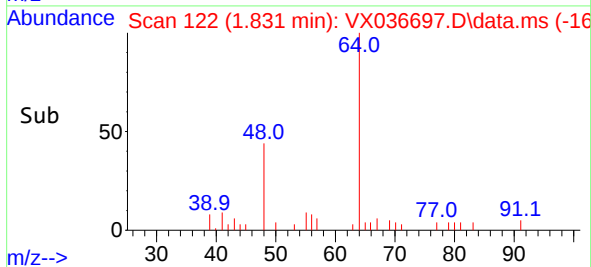
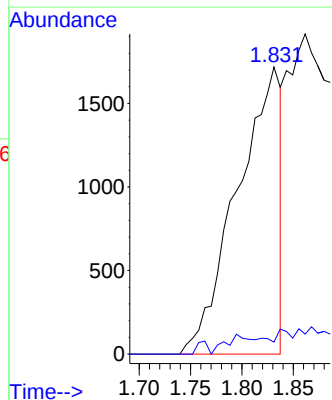
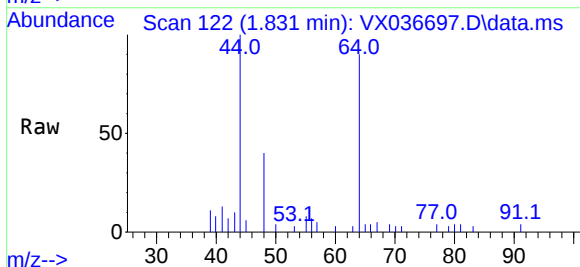
Instrument :
MSVOA_X
ClientSampleId :
001-WILLETS-PT-BLVD(JUNE)

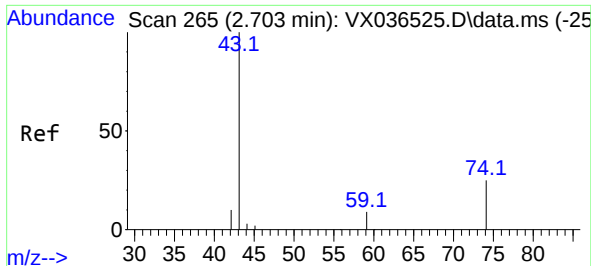
Tgt Ion:128 Resp: 30769
Ion Ratio Lower Upper
128 100
49 164.1 0.0 406.3
130 125.7 0.0 328.0



#6
Chloroethane
Concen: 3.076 ug/l
RT: 1.831 min Scan# 122
Delta R.T. 0.146 min
Lab File: VX036697.D
Acq: 28 Jul 2023 11:16

Tgt Ion: 64 Resp: 5078
Ion Ratio Lower Upper
64 100
66 4.1 23.1 34.7#

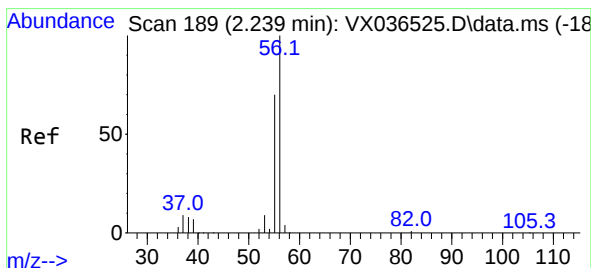
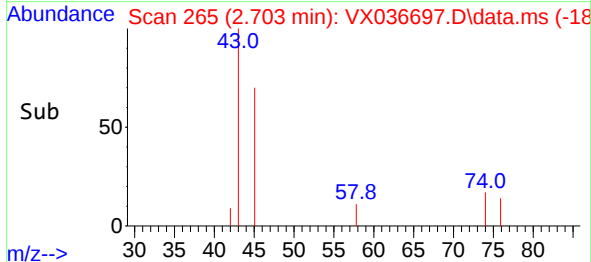
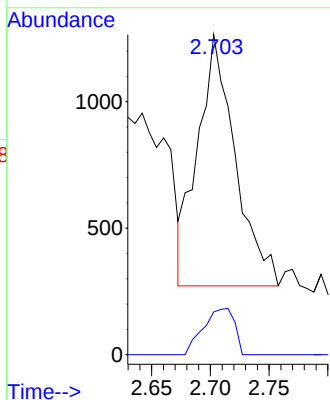
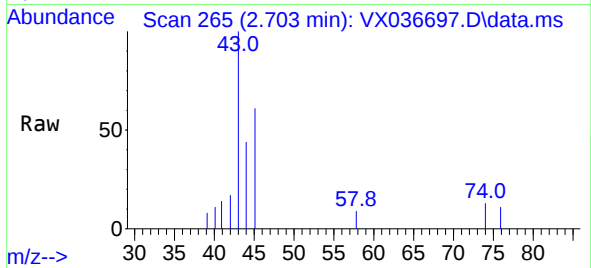




#12
Methyl Acetate
Concen: 0.524 ug/l
RT: 2.703 min Scan# 216
Delta R.T. 0.000 min
Lab File: VX036697.D
Acq: 28 Jul 2023 11:16

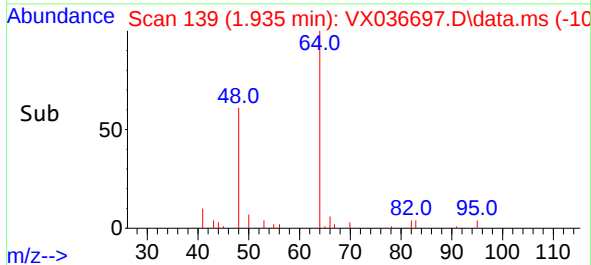
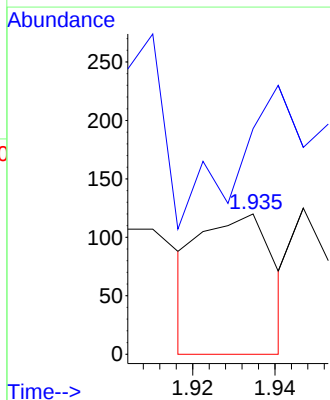
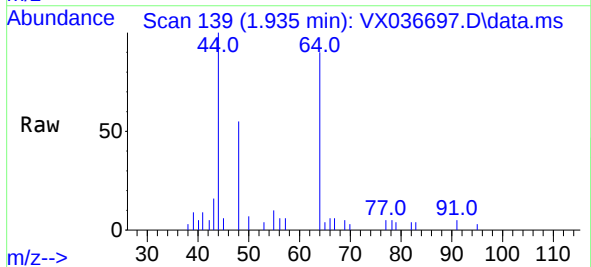
Instrument :
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ClientSampleId :
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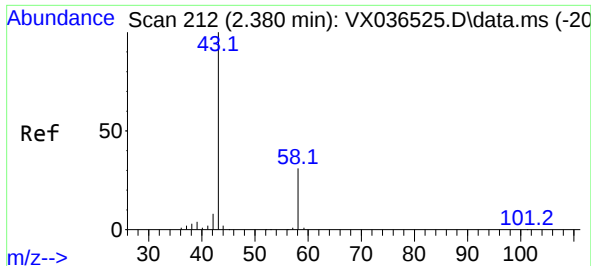
Tgt Ion: 43 Resp: 2216
Ion Ratio Lower Upper
43 100
74 19.5 20.3 30.5#



#13
Acrolein
Concen: 0.426 ug/l
RT: 1.935 min Scan# 139
Delta R.T. -0.305 min
Lab File: VX036697.D
Acq: 28 Jul 2023 11:16

Tgt Ion: 56 Resp: 148
Ion Ratio Lower Upper
56 100
55 88.5 59.7 89.5

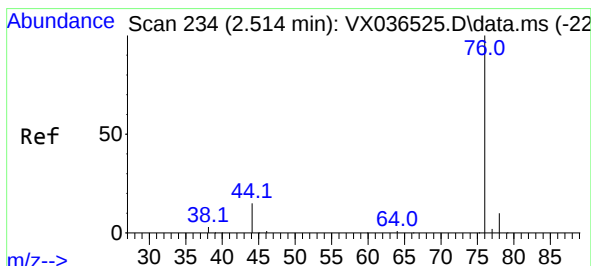
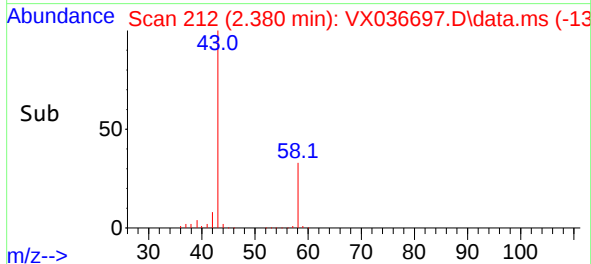
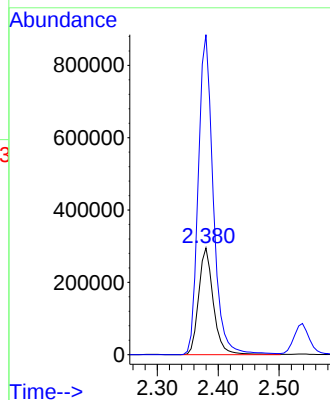
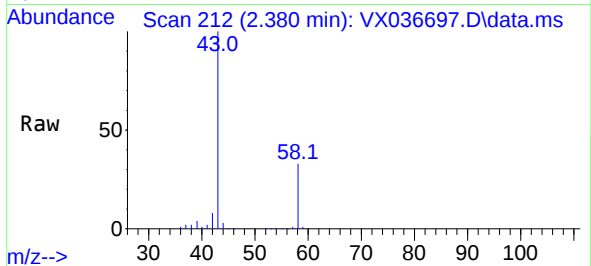




#15
Acetone
Concen: 1469.663 ug/l
RT: 2.380 min Scan# 212
Delta R.T. 0.000 min
Lab File: VX036697.D
Acq: 28 Jul 2023 11:16

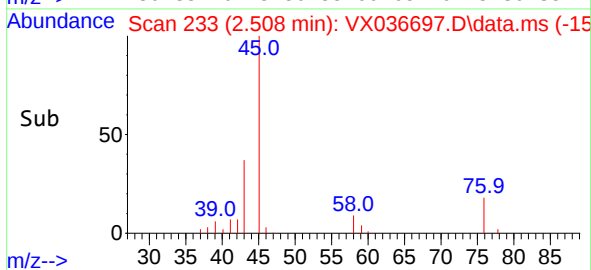
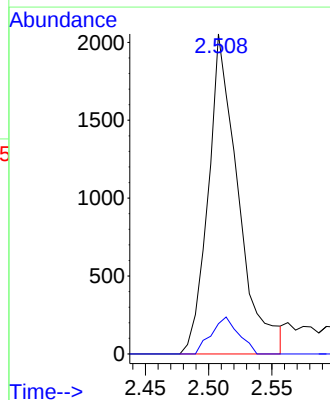
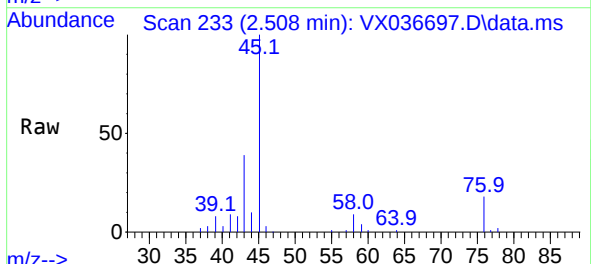
Instrument :
MSVOA_X
ClientSampleId :
001-WILLETS-PT-BLVD(JUNE)

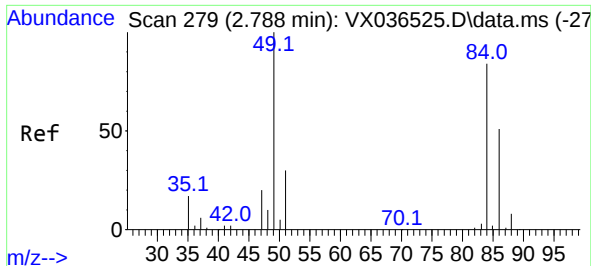
Tgt Ion: 58 Resp: 493618
Ion Ratio Lower Upper
58 100
43 299.9 261.0 391.4



#16
Carbon Disulfide
Concen: 0.776 ug/l
RT: 2.508 min Scan# 233
Delta R.T. -0.006 min
Lab File: VX036697.D
Acq: 28 Jul 2023 11:16

Tgt Ion: 76 Resp: 3391
Ion Ratio Lower Upper
76 100
78 9.4 8.0 12.0



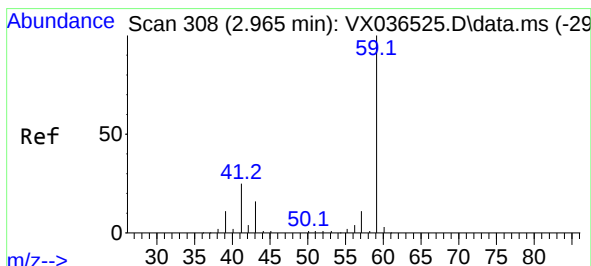
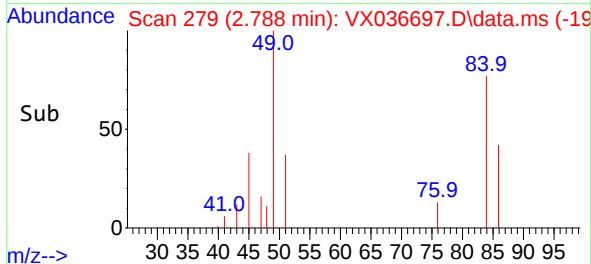
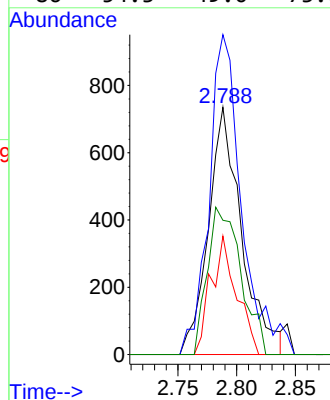
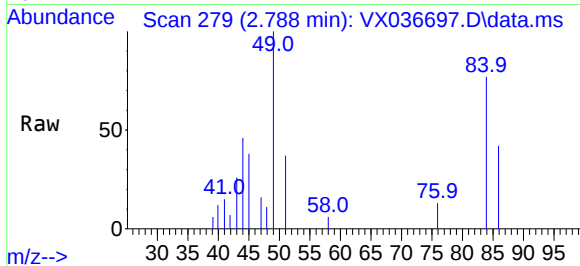


#18
Methylene Chloride
Concen: 0.668 ug/l
RT: 2.788 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX036697.D
Acq: 28 Jul 2023 11:16

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

Tgt Ion: 84 Resp: 1449

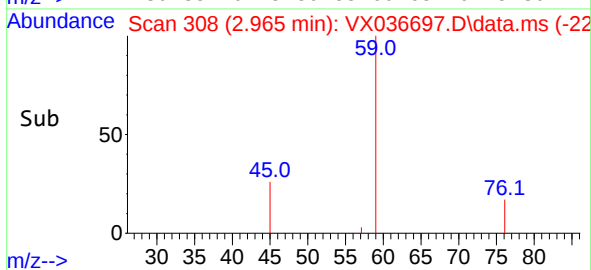
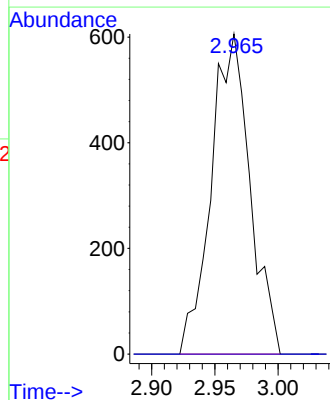
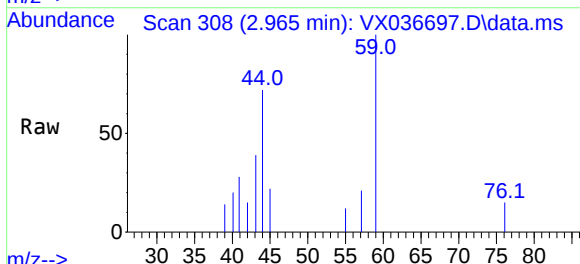
Ion	Ratio	Lower	Upper
84	100		
49	129.4	95.4	143.0
51	47.9	28.3	42.5#
86	54.3	49.0	73.6

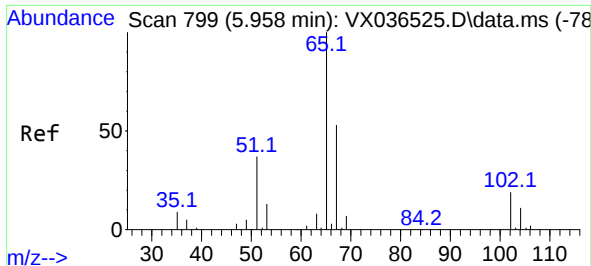


#23
tert-Butyl Alcohol
Concen: 2.349 ug/l
RT: 2.965 min Scan# 308
Delta R.T. 0.000 min
Lab File: VX036697.D
Acq: 28 Jul 2023 11:16

Tgt Ion: 59 Resp: 1294

Ion	Ratio	Lower	Upper
59	100		
52	0.0	142.6	213.8#

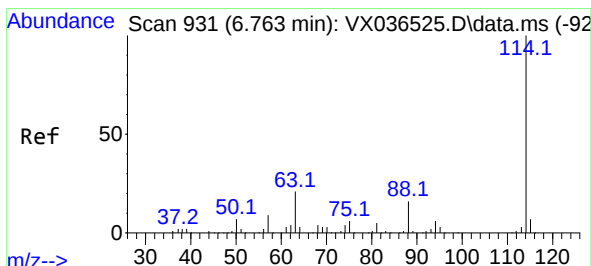
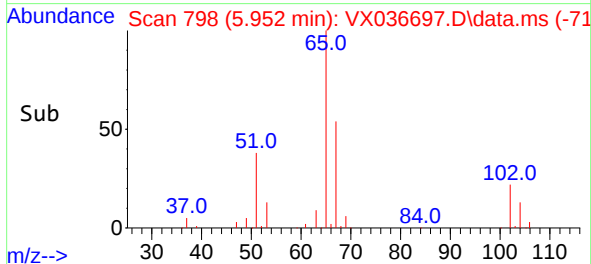
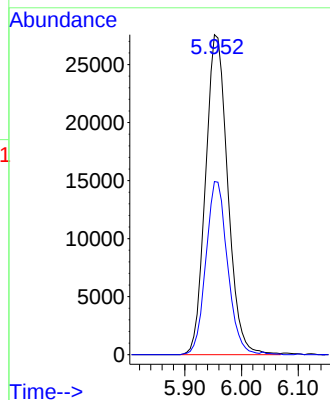
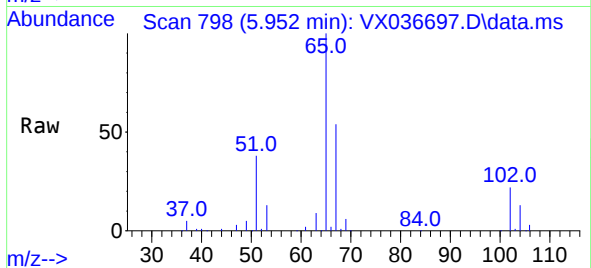




#27
1,2-Dichloroethane-d4
Concen: 29.375 ug/l
RT: 5.952 min Scan# 799
Delta R.T. -0.006 min
Lab File: VX036697.D
Acq: 28 Jul 2023 11:16

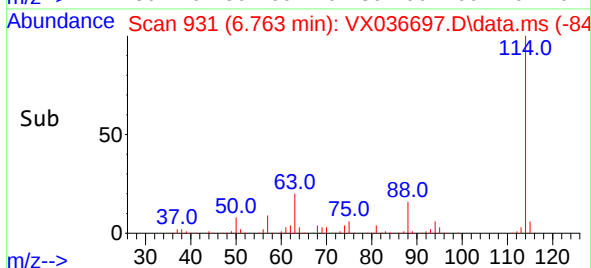
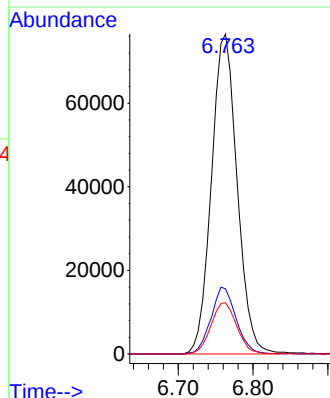
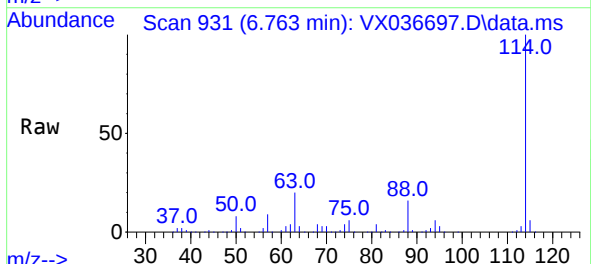
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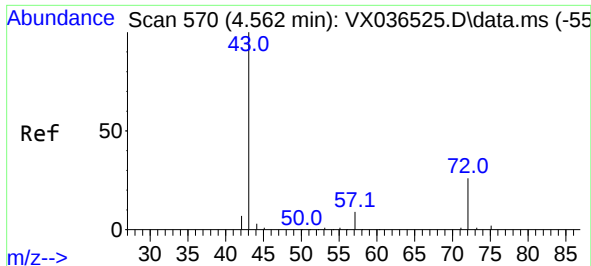
Tgt Ion: 65 Resp: 75015
Ion Ratio Lower Upper
65 100
67 52.6 42.1 63.1



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.763 min Scan# 931
Delta R.T. 0.000 min
Lab File: VX036697.D
Acq: 28 Jul 2023 11:16

Tgt Ion:114 Resp: 182565
Ion Ratio Lower Upper
114 100
63 20.4 16.6 24.8
88 16.1 12.9 19.3

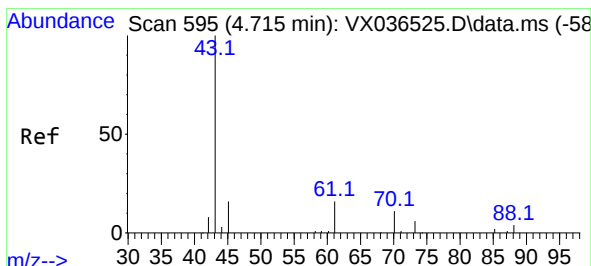
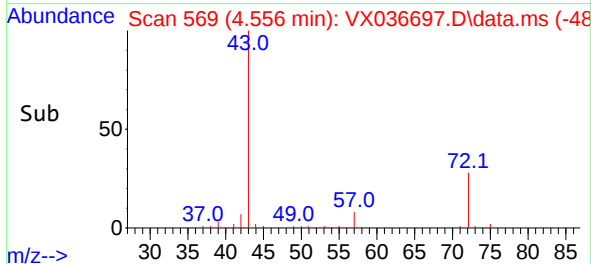
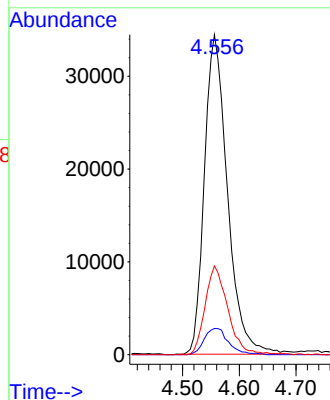
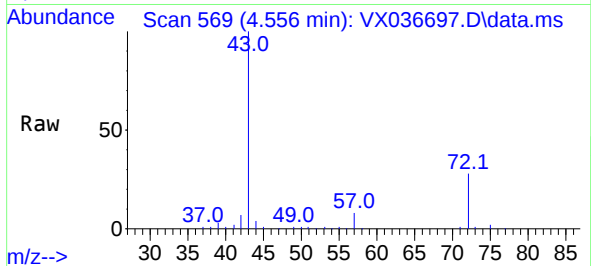




#30
2-Butanone
Concen: 56.036 ug/l
RT: 4.556 min Scan# 501
Delta R.T. -0.006 min
Lab File: VX036697.D
Acq: 28 Jul 2023 11:16

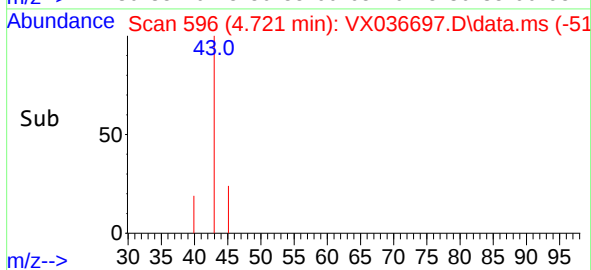
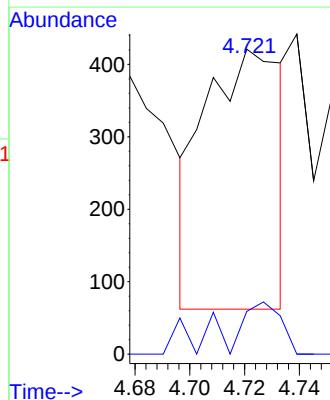
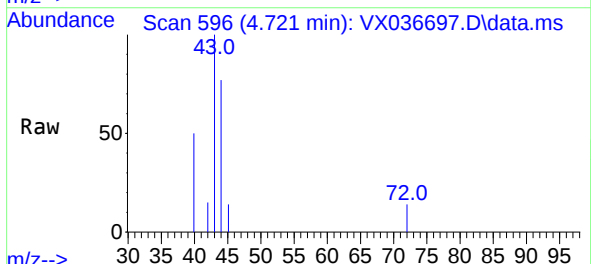
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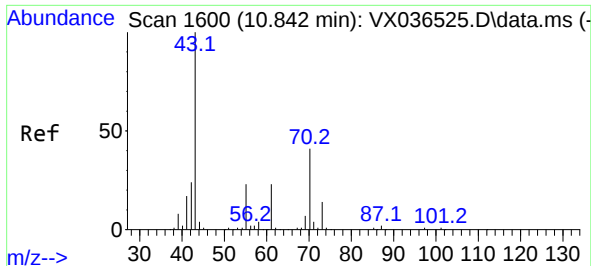
Tgt Ion: 43 Resp: 97135
Ion Ratio Lower Upper
43 100
57 8.5 6.4 9.6
72 27.3 21.6 32.4



#43
Ethyl Acetate
Concen: 0.206 ug/l
RT: 4.721 min Scan# 596
Delta R.T. 0.006 min
Lab File: VX036697.D
Acq: 28 Jul 2023 11:16

Tgt Ion: 43 Resp: 694
Ion Ratio Lower Upper
43 100
45 9.7 12.6 18.8#

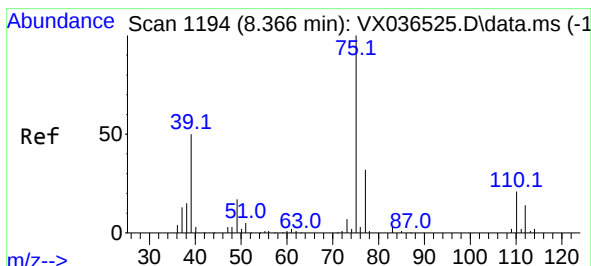
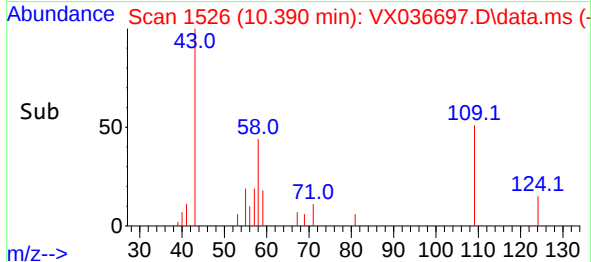
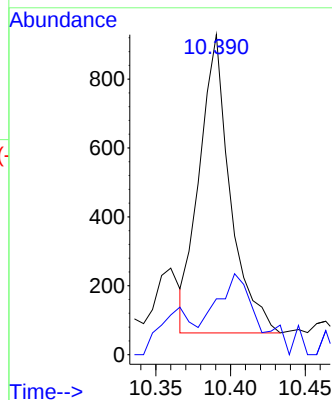
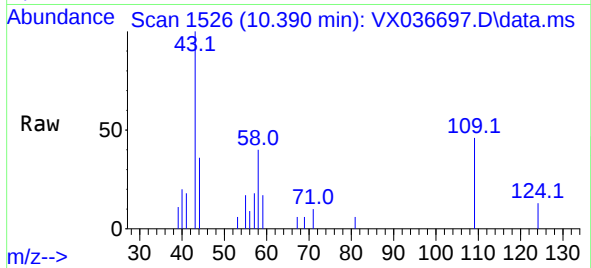




#47
n-amy1 Acetate
Concen: 0.272 ug/l
RT: 10.390 min Scan# 11
Delta R.T. -0.451 min
Lab File: VX036697.D
Acq: 28 Jul 2023 11:16

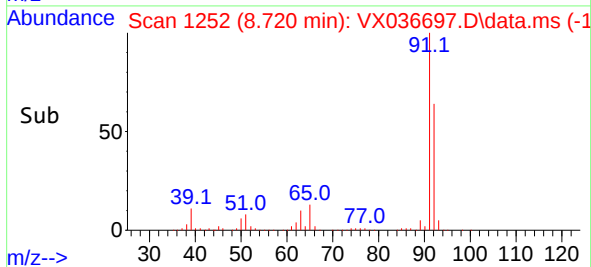
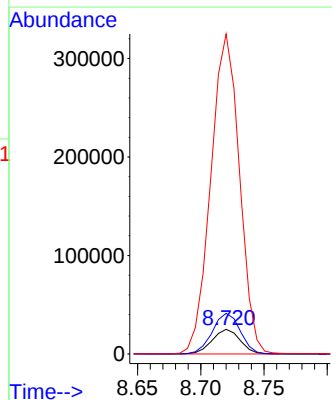
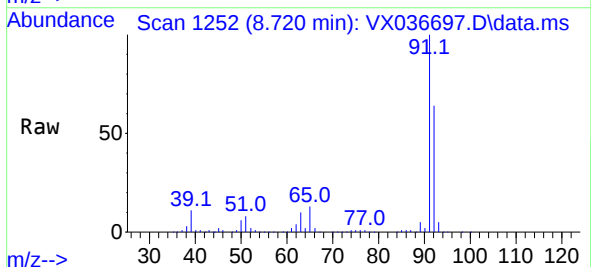
Instrument :
MSVOA_X
ClientSampleId :
001-WILLETS-PT-BLVD(JUNE)

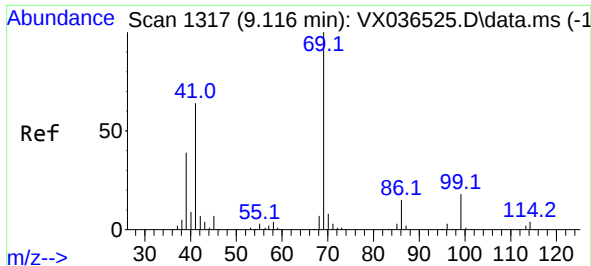
Tgt Ion: 43 Resp: 1243
Ion Ratio Lower Upper
43 100
55 23.2 18.6 28.0



#49
cis-1,3-Dichloropropene
Concen: 10.700 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.354 min
Lab File: VX036697.D
Acq: 28 Jul 2023 11:16

Tgt Ion: 75 Resp: 38336
Ion Ratio Lower Upper
75 100
77 164.8 25.4 38.2#
39 1298.3 40.2 60.4#





#51

Ethyl methacrylate

Concen: 0.224 ug/l

RT: 9.037 min Scan# 11

Delta R.T. -0.079 min

Lab File: VX036697.D

Acq: 28 Jul 2023 11:16

Instrument :

MSVOA_X

ClientSampleId :

001-WILLETS-PT-BLVD(JUNE)

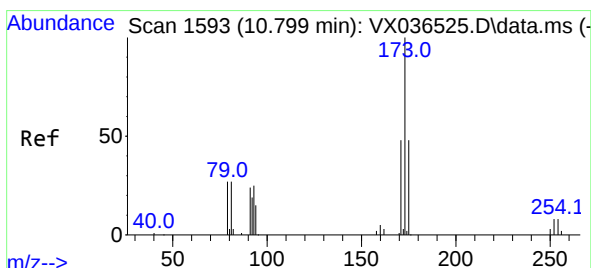
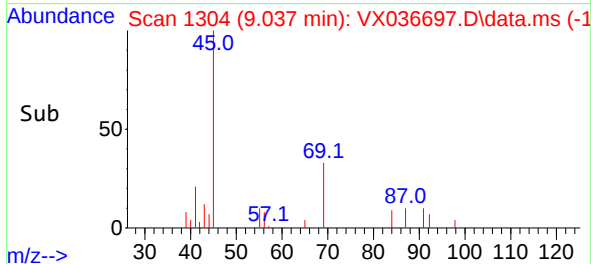
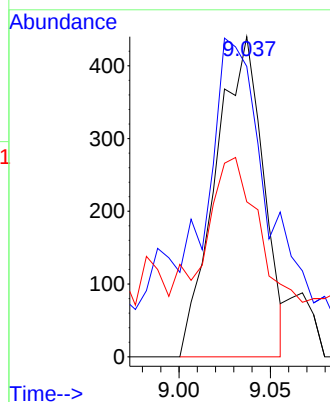
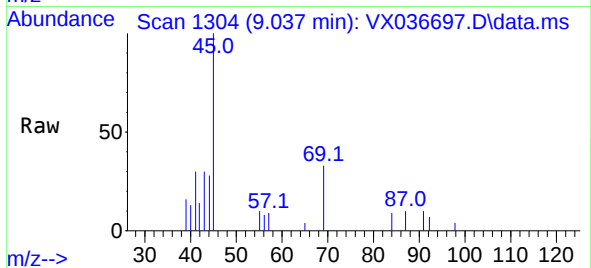
Tgt Ion: 69 Resp: 797

Ion Ratio Lower Upper

69 100

41 64.3 32.0 96.0

39 25.7 19.4 58.4



#56

Bromoform

Concen: 0.287 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.280 min

Lab File: VX036697.D

Acq: 28 Jul 2023 11:16

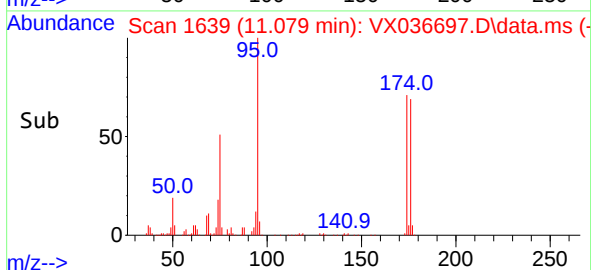
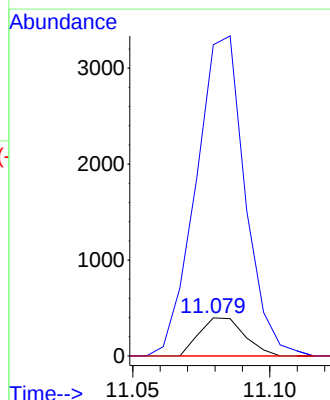
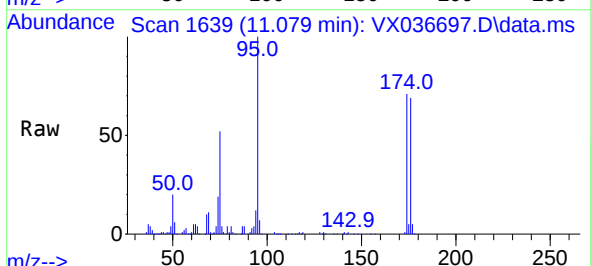
Tgt Ion: 173 Resp: 456

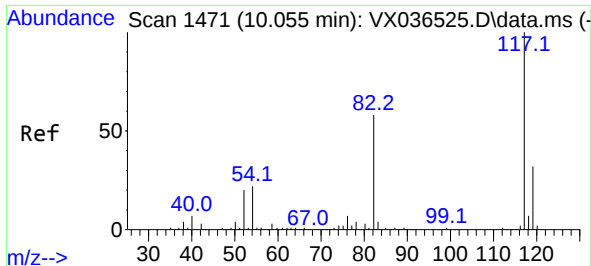
Ion Ratio Lower Upper

173 100

175 912.1 38.1 57.1#

254 0.0 6.7 10.1#





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VX036697.D

Acq: 28 Jul 2023 11:16

Instrument :

MSVOA_X

ClientSampleId :

001-WILLETS-PT-BLVD(JUNE)

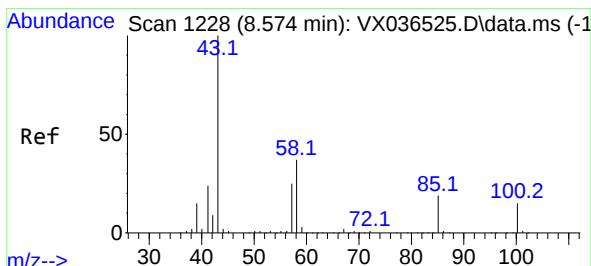
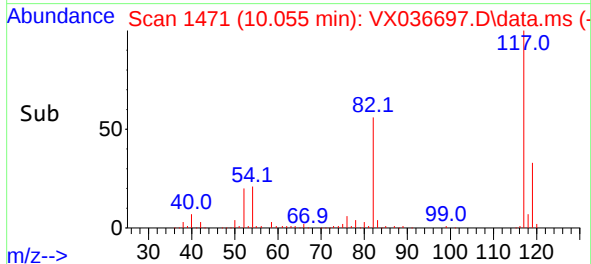
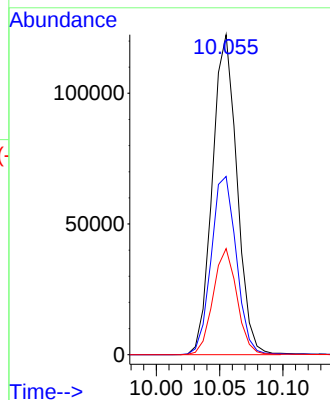
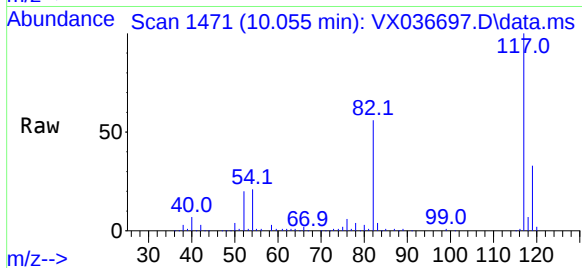
Tgt Ion:117 Resp: 165456

Ion Ratio Lower Upper

117 100

82 56.9 44.7 67.1

119 32.2 25.6 38.4



#58

4-Methyl-2-Pentanone

Concen: 5.628 ug/l

RT: 8.574 min Scan# 1228

Delta R.T. 0.000 min

Lab File: VX036697.D

Acq: 28 Jul 2023 11:16

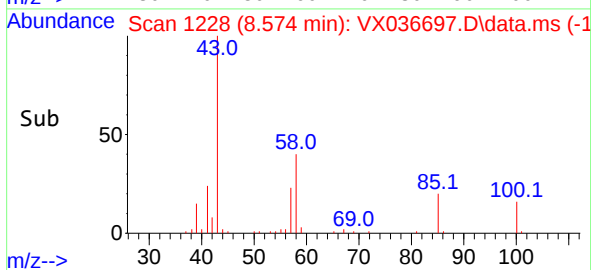
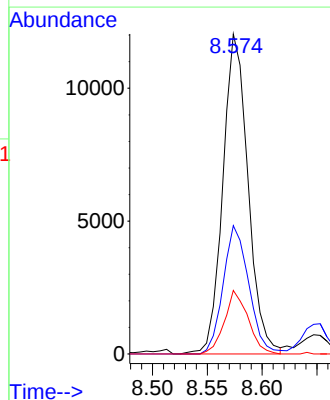
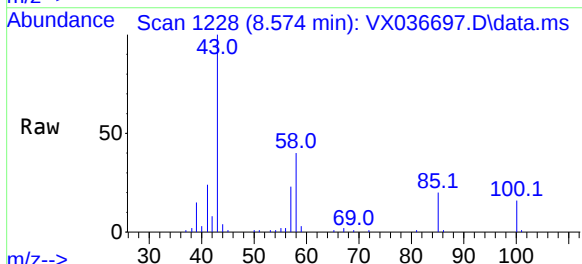
Tgt Ion: 43 Resp: 19254

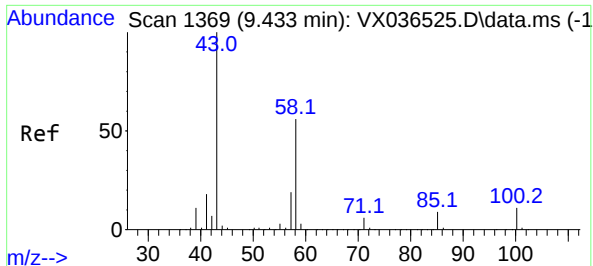
Ion Ratio Lower Upper

43 100

58 41.0 30.9 46.3

85 18.6 14.4 21.6

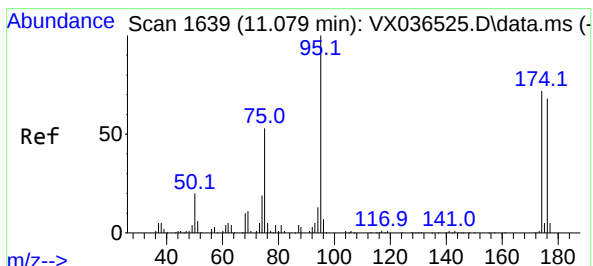
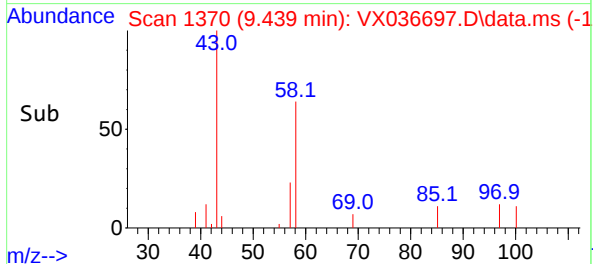
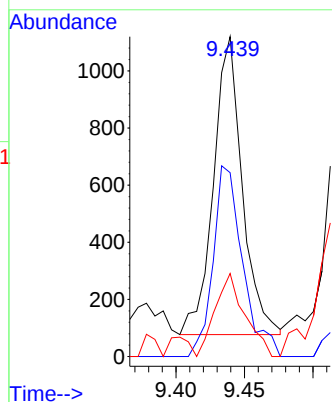
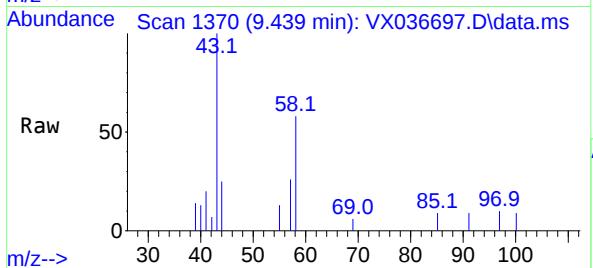




#59
2-Hexanone
Concen: 0.586 ug/l
RT: 9.439 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX036697.D
Acq: 28 Jul 2023 11:16

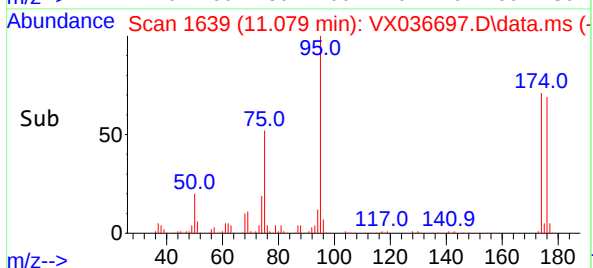
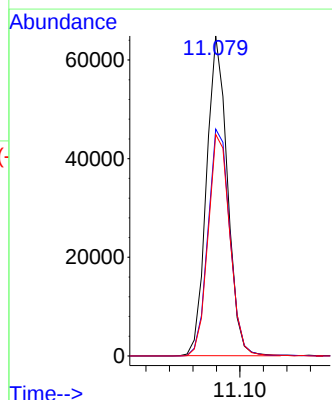
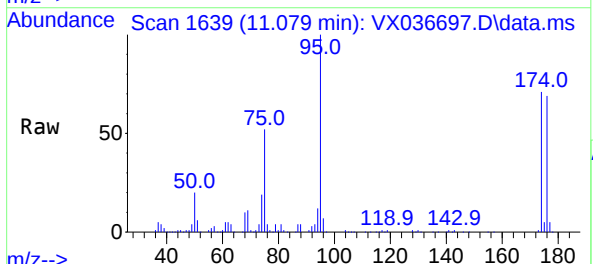
Instrument :
MSVOA_X
ClientSampleId :
001-WILLETS-PT-BLVD(JUNE)

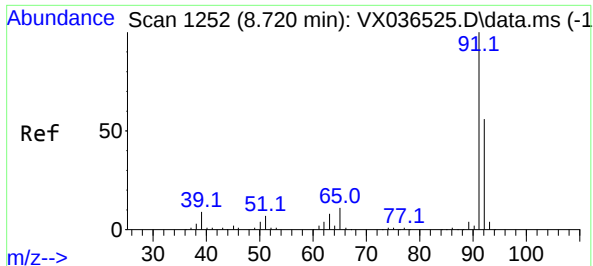
Tgt Ion: 43 Resp: 1525
Ion Ratio Lower Upper
43 100
58 61.4 43.4 65.2
57 28.7 15.1 22.7#



#60
4-Bromofluorobenzene
Concen: 29.772 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX036697.D
Acq: 28 Jul 2023 11:16

Tgt Ion: 95 Resp: 79905
Ion Ratio Lower Upper
95 100
174 74.2 60.5 90.7
176 72.3 58.2 87.4





#62

Toluene

Concen: 538.901 ug/l

RT: 8.720 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX036697.D

Acq: 28 Jul 2023 11:16

Instrument :

MSVOA_X

ClientSampleId :

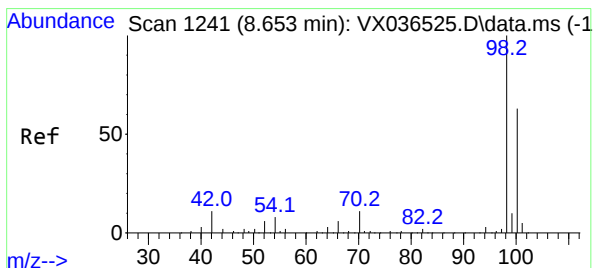
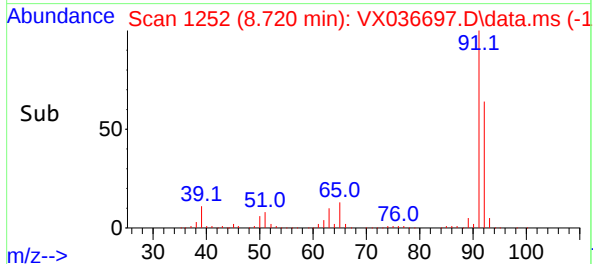
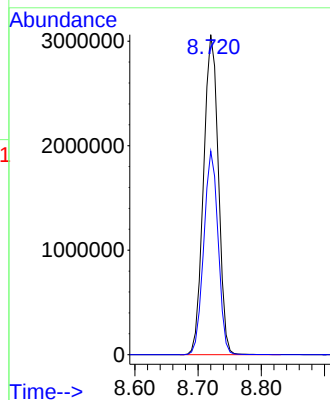
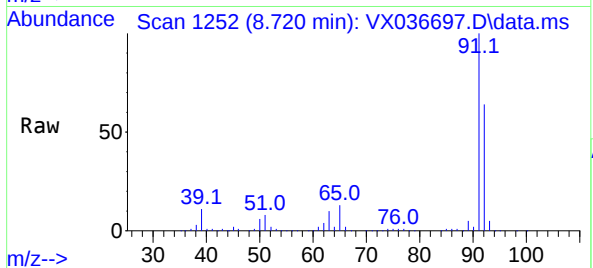
001-WILLETS-PT-BLVD(JUNE)

Tgt Ion: 91 Resp: 5002828

Ion Ratio Lower Upper

91 100

92 61.5 44.9 67.3



#63

Toluene-d8

Concen: 29.145 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. -0.006 min

Lab File: VX036697.D

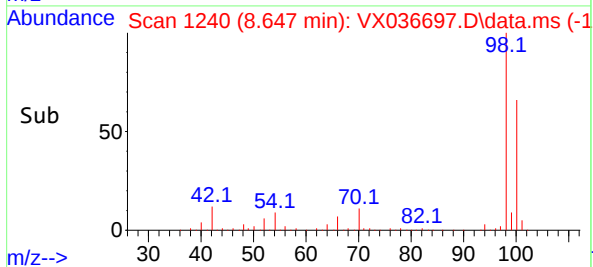
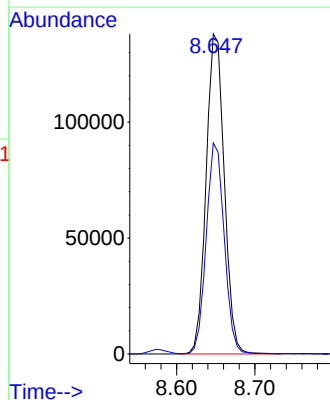
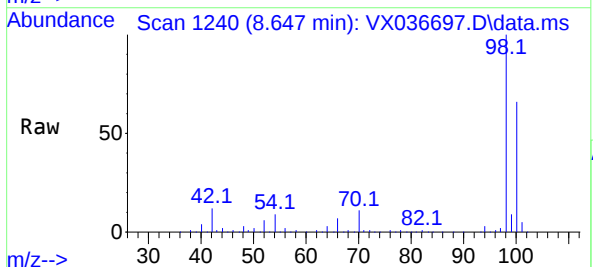
Acq: 28 Jul 2023 11:16

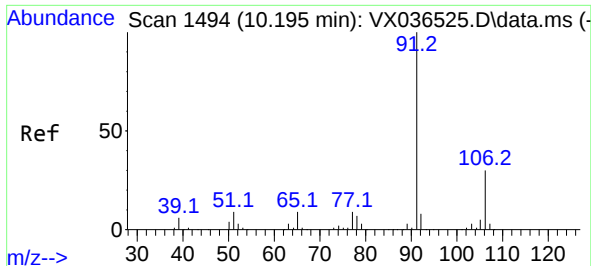
Tgt Ion: 98 Resp: 221897

Ion Ratio Lower Upper

98 100

100 65.3 51.6 77.4

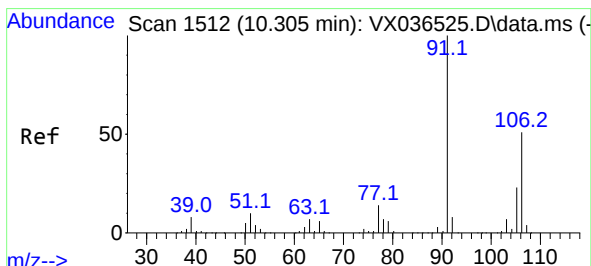
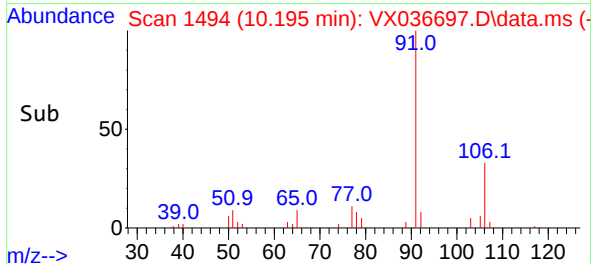
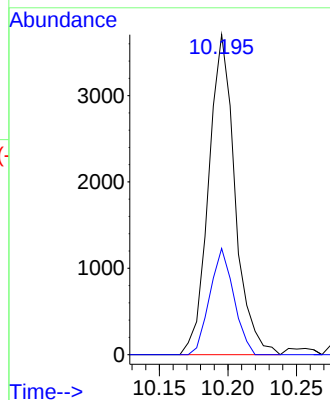
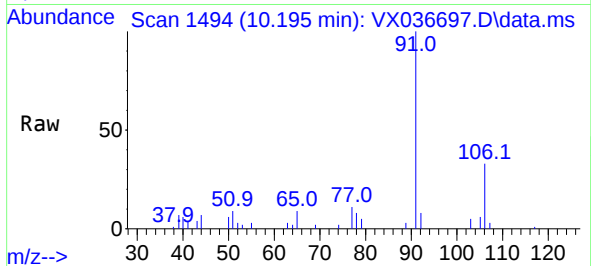




#66
Ethyl Benzene
Concen: 0.491 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. 0.000 min
Lab File: VX036697.D
Acq: 28 Jul 2023 11:16

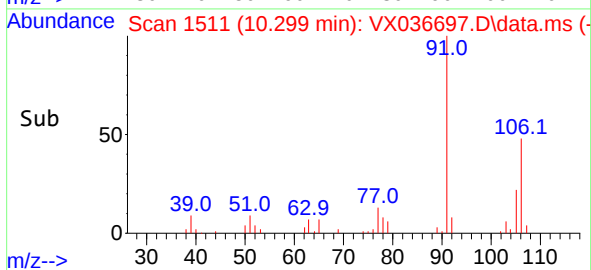
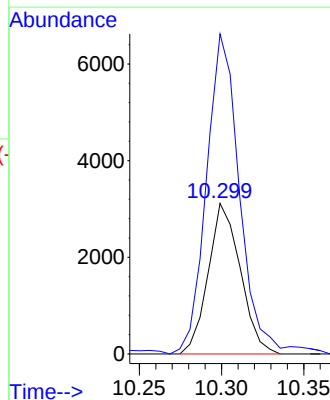
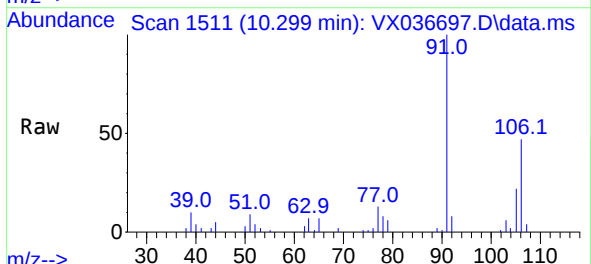
Instrument :
MSVOA_X
ClientSampleId :
001-WILLETS-PT-BLVD(JUNE)

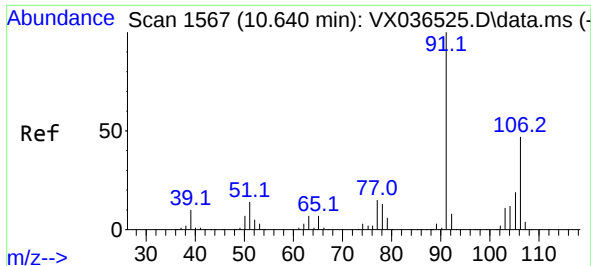
Tgt Ion: 91 Resp: 4957
Ion Ratio Lower Upper
91 100
106 33.2 24.2 36.4



#67
m/p-Xylenes
Concen: 1.076 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.006 min
Lab File: VX036697.D
Acq: 28 Jul 2023 11:16

Tgt Ion:106 Resp: 4232
Ion Ratio Lower Upper
106 100
91 216.2 160.5 240.7

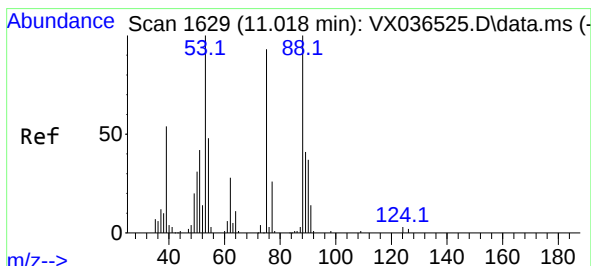
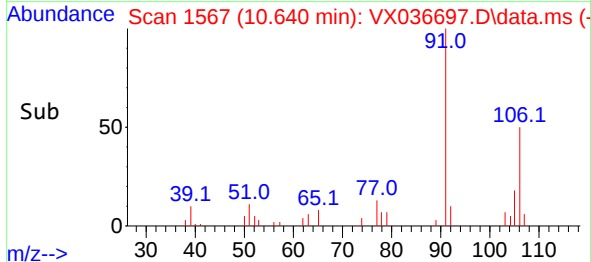
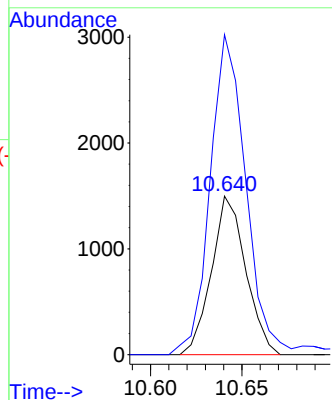
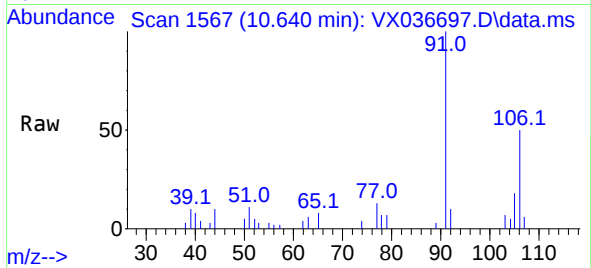




#68
o-Xylene
Concen: 0.502 ug/l
RT: 10.640 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX036697.D
Acq: 28 Jul 2023 11:16

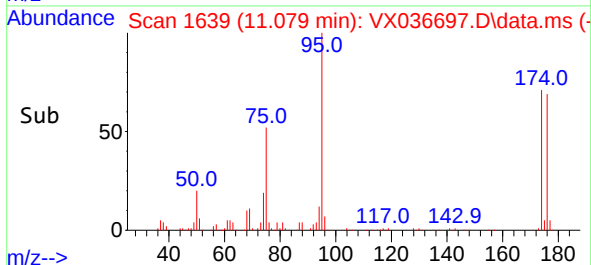
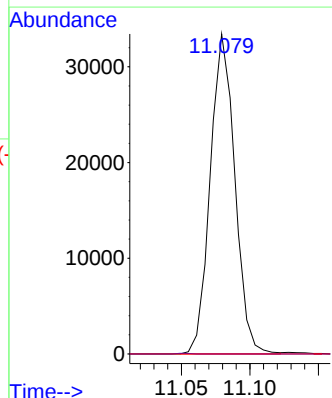
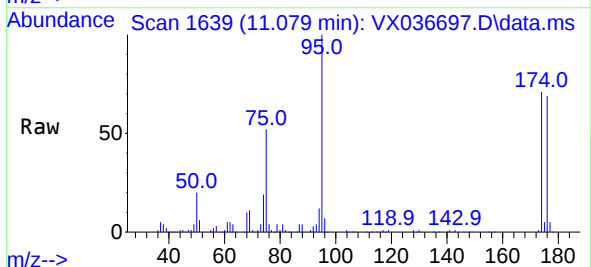
Instrument :
MSVOA_X
ClientSampleId :
001-WILLETS-PT-BLVD(JUNE)

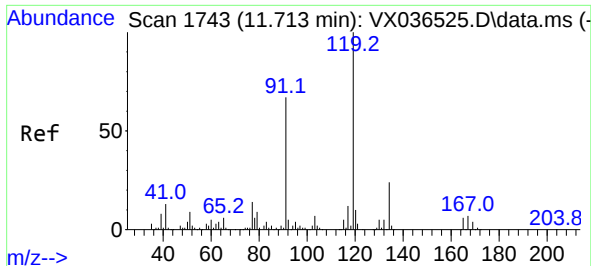
Tgt Ion:106 Resp: 1958
Ion Ratio Lower Upper
106 100
91 208.5 105.4 316.1



#77
t-1,4-Dichloro-2-butene
Concen: 38.608 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX036697.D
Acq: 28 Jul 2023 11:16

Tgt Ion: 75 Resp: 41690
Ion Ratio Lower Upper
75 100
53 0.0 53.9 161.7#
89 0.0 22.1 66.1#

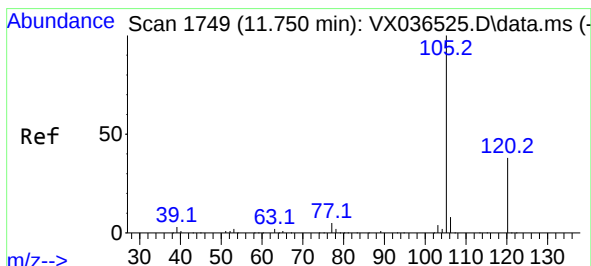
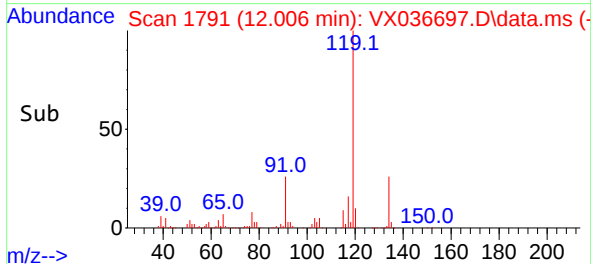
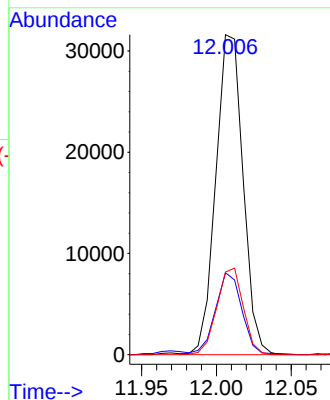
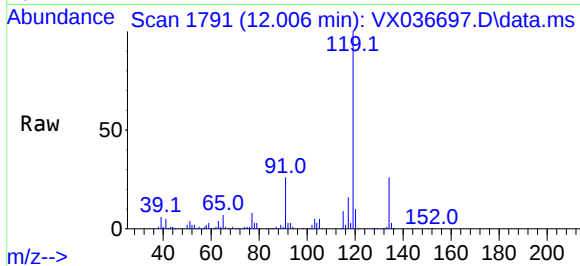




#79
tert-butylbenzene
Concen: 5.053 ug/l
RT: 12.006 min Scan# 11
Delta R.T. 0.293 min
Lab File: VX036697.D
Acq: 28 Jul 2023 11:16

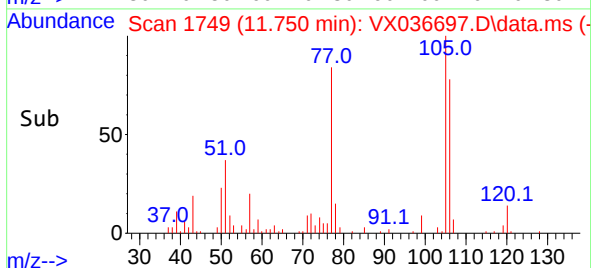
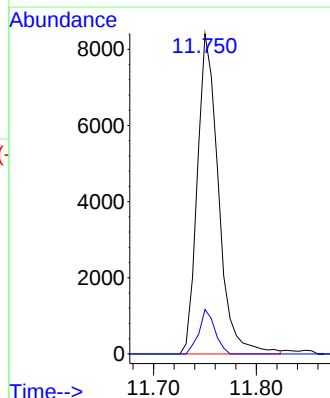
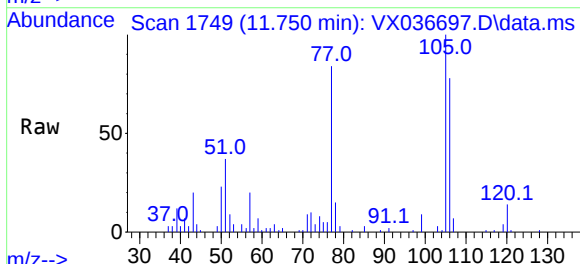
Instrument :
MSVOA_X
ClientSampleId :
001-WILLETS-PT-BLVD(JUNE)

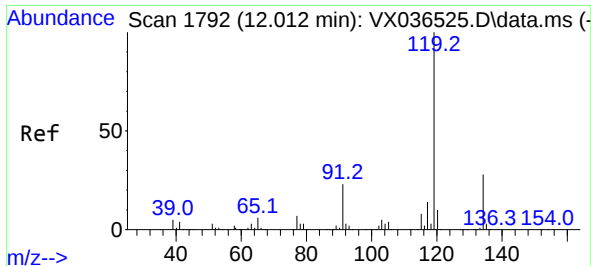
Tgt Ion:119 Resp: 40070
Ion Ratio Lower Upper
119 100
91 24.8 0.0 124.4
134 26.2 0.0 47.2



#80
1,2,4-Trimethylbenzene
Concen: 1.455 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX036697.D
Acq: 28 Jul 2023 11:16

Tgt Ion:105 Resp: 12049
Ion Ratio Lower Upper
105 100
120 10.5 0.0 90.2

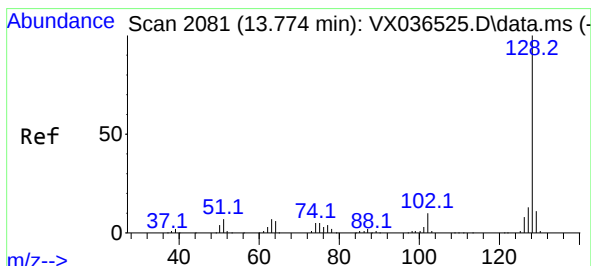
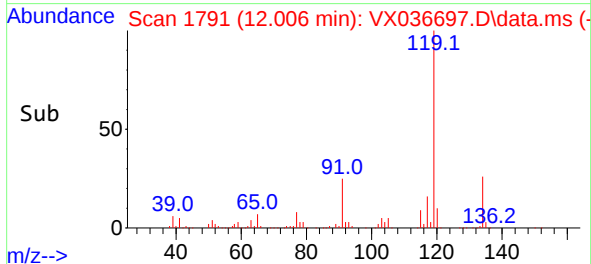
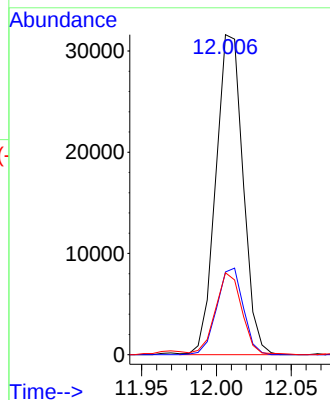
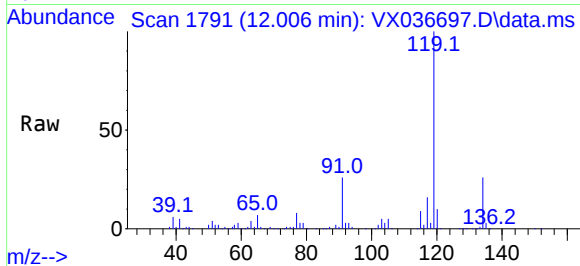




#82
p-Isopropyltoluene
Concen: 4.825 ug/l
RT: 12.006 min Scan# 119
Delta R.T. -0.006 min
Lab File: VX036697.D
Acq: 28 Jul 2023 11:16

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

Tgt Ion:119 Resp: 40070
Ion Ratio Lower Upper
119 100
134 26.2 0.0 53.2
91 24.8 0.0 49.4



#91
Naphthalene
Concen: 0.528 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. 0.000 min
Lab File: VX036697.D
Acq: 28 Jul 2023 11:16

Tgt Ion:128 Resp: 5238
Ion Ratio Lower Upper
128 100
127 12.8 10.3 15.5
129 10.8 8.7 13.1

