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 Data File : VX039089.D
 Acq On : 06 Dec 2023 15:19
 Operator : JC/MD
 Sample : 05656-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

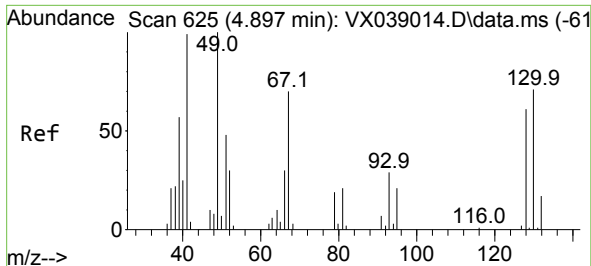
Instrument :
 MSVOA_X
 ClientSampleId :
 001-WILLETS-PT-BLVD(DEC)

Quant Time: Dec 07 04:01:26 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X112423W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Nov 27 03:22:25 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.885	128	6126	30.000	ug/l	-0.01
28) 1,4-Difluorobenzene	6.751	114	100065	30.000	ug/l	-0.01
57) Chlorobenzene-d5	10.049	117	121235	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.946	65	51121	60.998	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 203.333%#	
60) 4-Bromofluorobenzene	11.079	95	78227	29.542	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 98.467%	
63) Toluene-d8	8.641	98	146318	30.526	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 101.767%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.301	50	237	0.226	ug/l #	40
6) Chloroethane	1.697	64	495	0.802	ug/l #	46
11) Methyl Iodide	2.459	142	209	0.229	ug/l #	37
12) Methyl Acetate	2.703	43	1624	0.625	ug/l	91
13) Acrolein	2.233	56	236	1.037	ug/l	98
14) Acrylonitrile	3.069	53	478	0.752	ug/l #	59
15) Acetone	2.367	58	74690	323.264	ug/l	97
16) Carbon Disulfide	2.514	76	3550	1.407	ug/l	99
18) Methylene Chloride	2.788	84	894	0.905	ug/l #	85
23) tert-Butyl Alcohol	2.947	59	3092	8.787	ug/l #	100
25) Chloroform	5.080	83	842	0.479	ug/l	86
30) 2-Butanone	4.550	43	20397	9.658	ug/l	98
49) cis-1,3-Dichloropropene	8.714	75	1582	0.452	ug/l #	1
56) Bromoform	11.079	173	500	0.312	ug/l #	1
58) 4-Methyl-2-Pentanone	8.568	43	9335	2.539	ug/l	97
59) 2-Hexanone	9.439	43	1170	0.388	ug/l #	79
62) Toluene	8.714	91	216236	25.122	ug/l	99
66) Ethyl Benzene	10.195	91	3053	0.311	ug/l	96
67) m/p-Xylenes	10.305	106	1346	0.372	ug/l	91
69) Styrene	10.659	104	3377	0.650	ug/l	95
77) t-1,4-Dichloro-2-butene	11.079	75	40986	34.885	ug/l #	12
80) 1,2,4-Trimethylbenzene	11.756	105	3675	0.454	ug/l	87
82) p-Isopropyltoluene	12.006	119	9245	1.122	ug/l	95
89) 1,2,4-Trichlorobenzene	13.591	180	833	0.319	ug/l	87
90) Hexachlorobutadiene	13.725	225	556	0.597	ug/l	89
91) Naphthalene	13.774	128	4611	0.480	ug/l	97
92) 1,2,3-Trichlorobenzene	13.963	180	623	0.247	ug/l	75

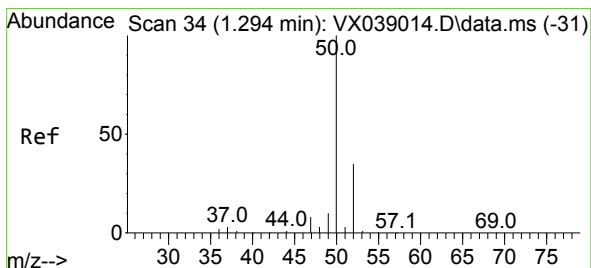
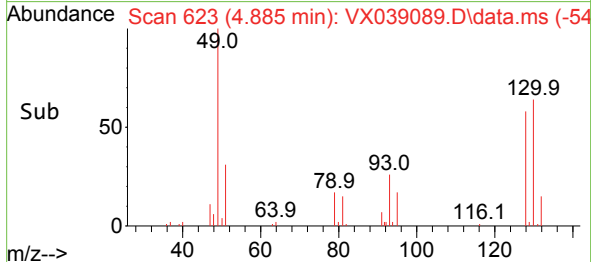
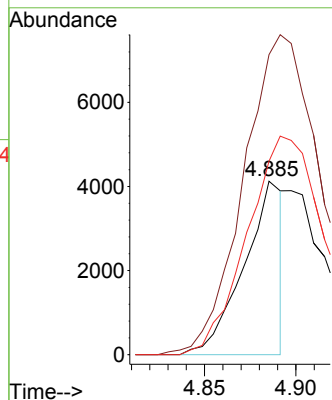
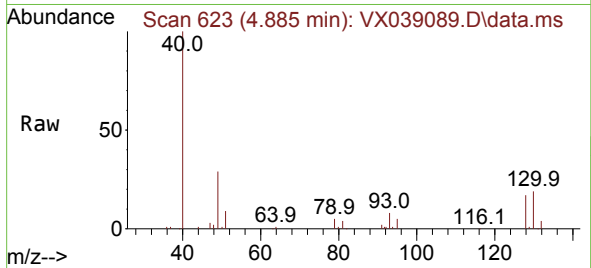
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.885 min Scan# 61
Delta R.T. -0.012 min
Lab File: VX039089.D
Acq: 06 Dec 2023 15:19

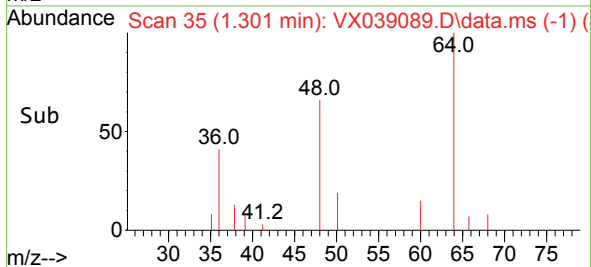
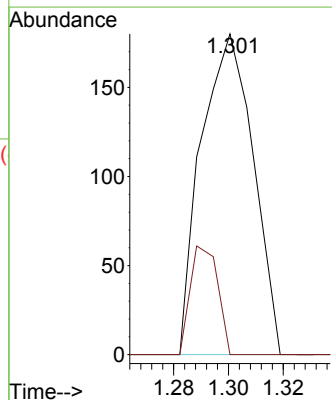
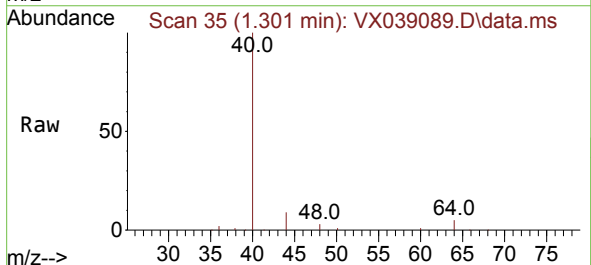
Instrument :
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001-WILLETS-PT-BLVD(DEC)

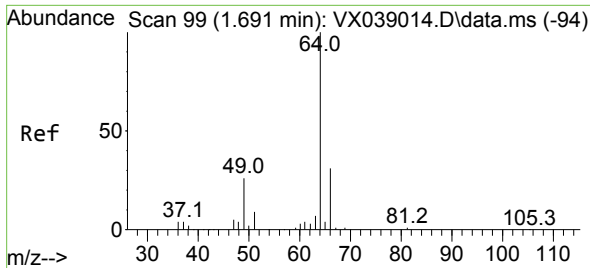
Tgt Ion:128 Resp: 6126
Ion Ratio Lower Upper
128 100
49 374.3 0.0 444.0
130 252.7 0.0 297.8



#3
Chloromethane
Concen: 0.226 ug/l
RT: 1.301 min Scan# 35
Delta R.T. 0.006 min
Lab File: VX039089.D
Acq: 06 Dec 2023 15:19

Tgt Ion: 50 Resp: 237
Ion Ratio Lower Upper
50 100
52 0.0 27.8 41.8#

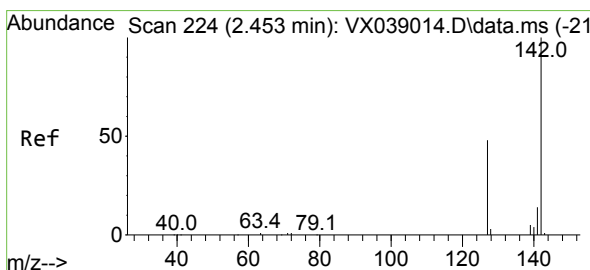
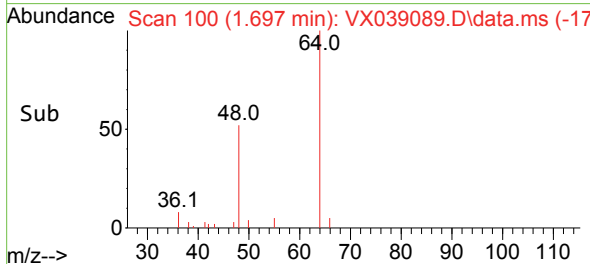
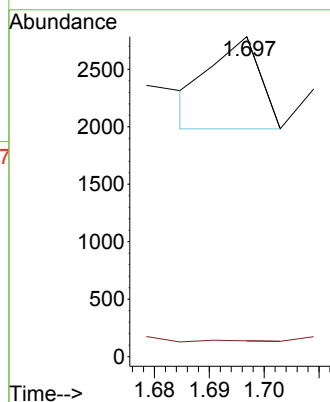
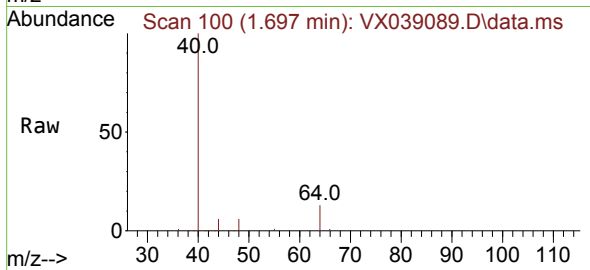




#6
Chloroethane
Concen: 0.802 ug/l
RT: 1.697 min Scan# 10
Delta R.T. 0.006 min
Lab File: VX039089.D
Acq: 06 Dec 2023 15:19

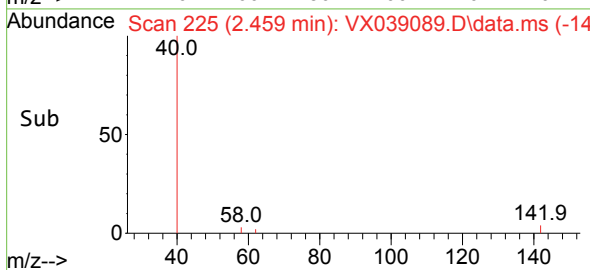
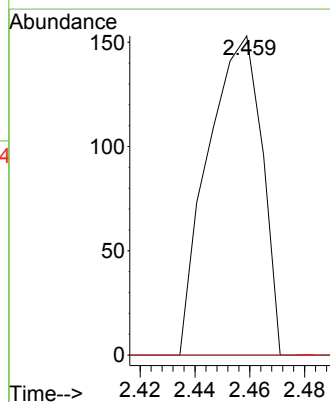
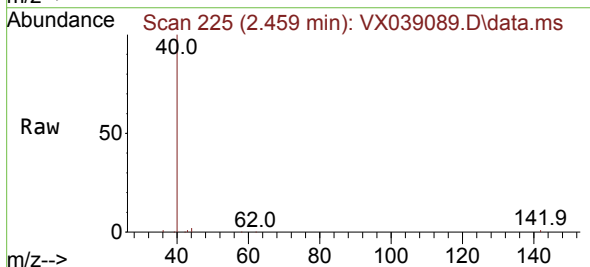
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ClientSampleId :
001-WILLETS-PT-BLVD(DEC)

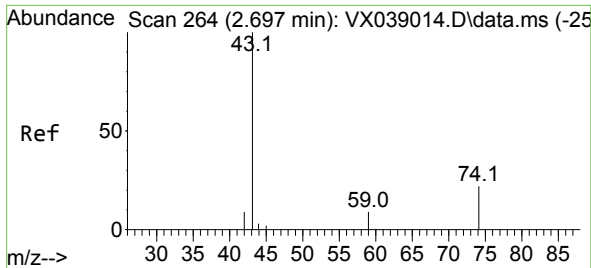
Tgt Ion: 64 Resp: 495
Ion Ratio Lower Upper
64 100
66 1.4 25.0 37.6#



#11
Methyl Iodide
Concen: 0.229 ug/l
RT: 2.459 min Scan# 225
Delta R.T. 0.006 min
Lab File: VX039089.D
Acq: 06 Dec 2023 15:19

Tgt Ion: 142 Resp: 209
Ion Ratio Lower Upper
142 100
127 0.0 23.8 71.4#
141 0.0 6.9 20.6#

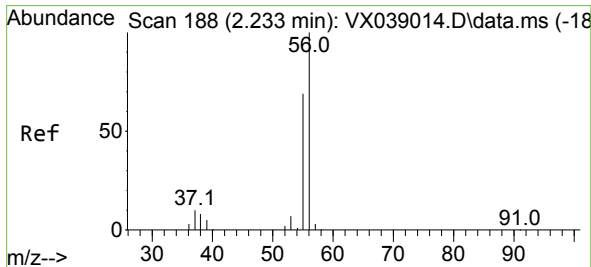
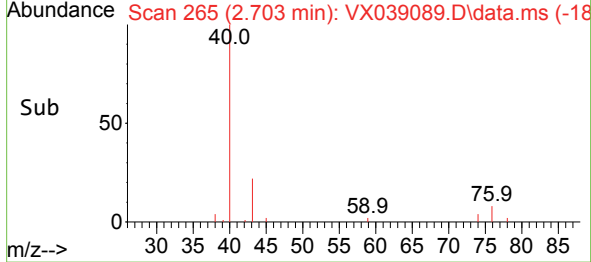
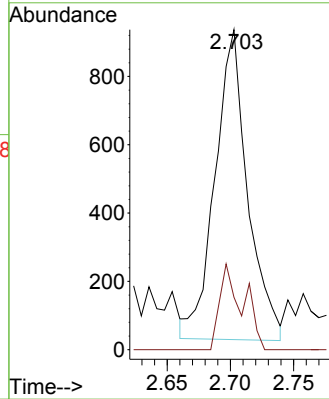
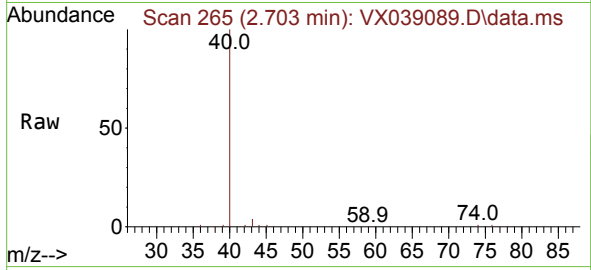




#12
Methyl Acetate
Concen: 0.625 ug/l
RT: 2.703 min Scan# 20
Delta R.T. 0.006 min
Lab File: VX039089.D
Acq: 06 Dec 2023 15:19

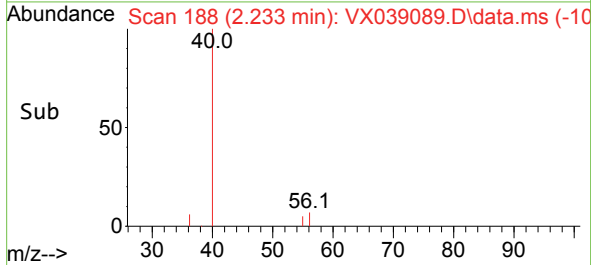
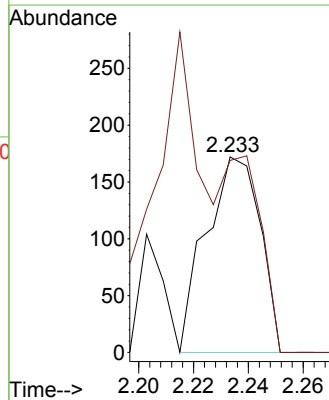
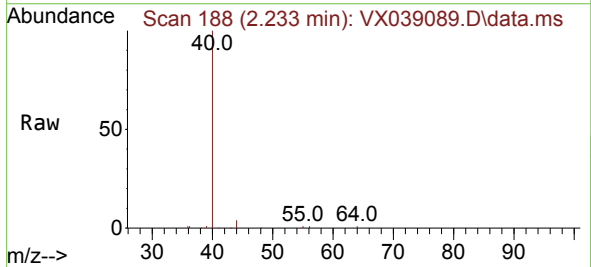
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MSVOA_X
ClientSampleId :
001-WILLETS-PT-BLVD(DEC)

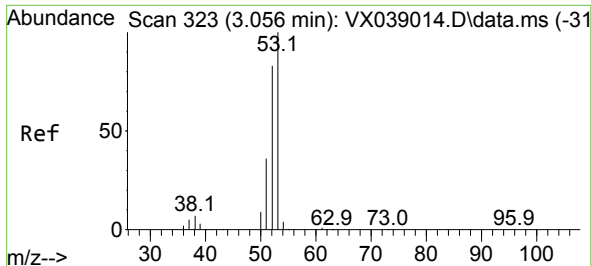
Tgt Ion: 43 Resp: 1624
Ion Ratio Lower Upper
43 100
74 18.0 17.8 26.6



#13
Acrolein
Concen: 1.037 ug/l
RT: 2.233 min Scan# 188
Delta R.T. 0.000 min
Lab File: VX039089.D
Acq: 06 Dec 2023 15:19

Tgt Ion: 56 Resp: 236
Ion Ratio Lower Upper
56 100
55 69.5 57.2 85.8

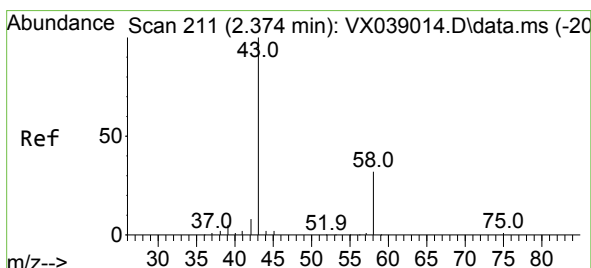
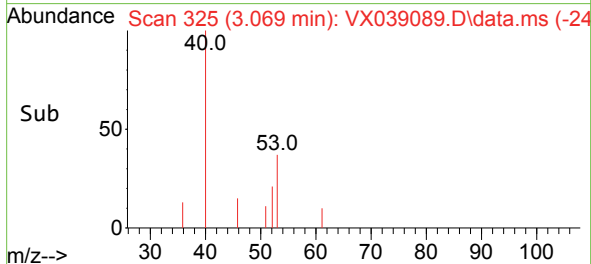
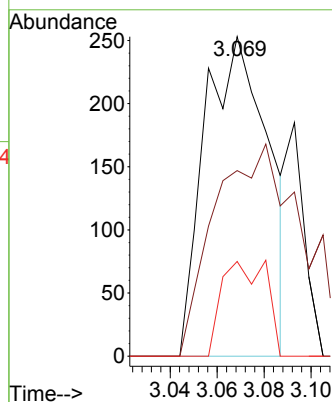
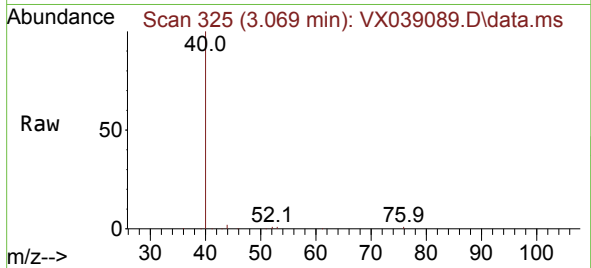




#14
Acrylonitrile
Concen: 0.752 ug/l
RT: 3.069 min Scan# 31
Delta R.T. 0.012 min
Lab File: VX039089.D
Acq: 06 Dec 2023 15:19

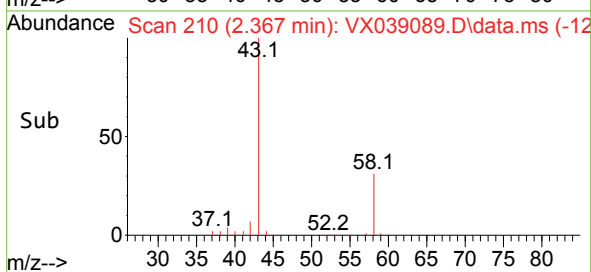
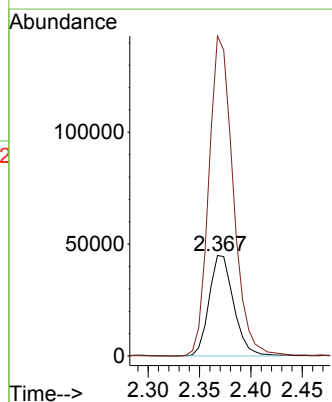
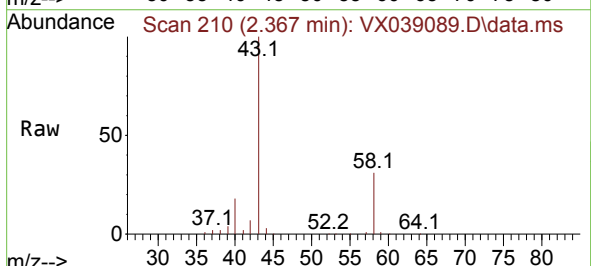
Instrument :
MSVOA_X
ClientSampleId :
001-WILLETS-PT-BLVD(DEC)

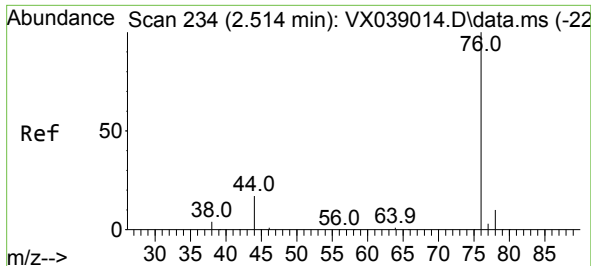
Tgt Ion: 53 Resp: 478
Ion Ratio Lower Upper
53 100
52 44.6 41.9 125.6
51 14.9 18.3 54.9#



#15
Acetone
Concen: 323.264 ug/l
RT: 2.367 min Scan# 210
Delta R.T. -0.006 min
Lab File: VX039089.D
Acq: 06 Dec 2023 15:19

Tgt Ion: 58 Resp: 74690
Ion Ratio Lower Upper
58 100
43 318.5 249.9 374.9

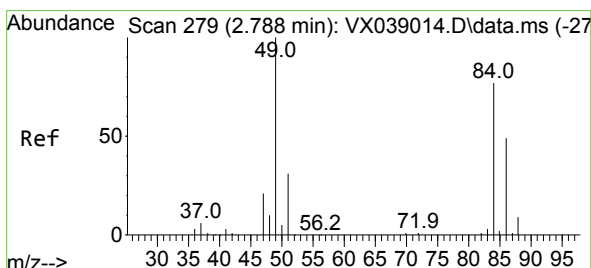
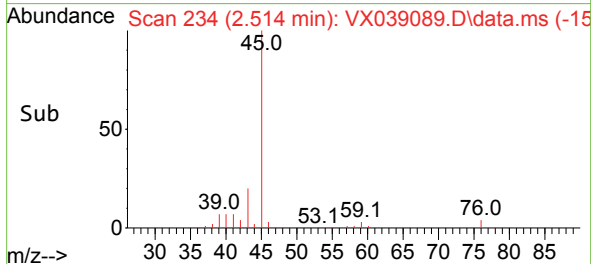
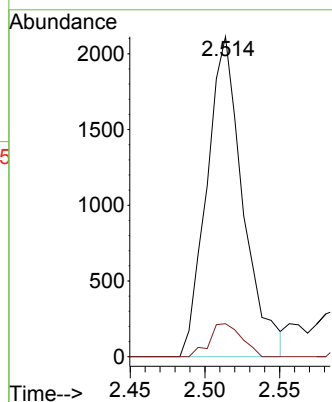
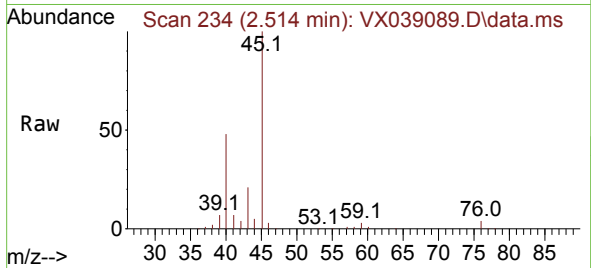




#16
Carbon Disulfide
Concen: 1.407 ug/l
RT: 2.514 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX039089.D
Acq: 06 Dec 2023 15:19

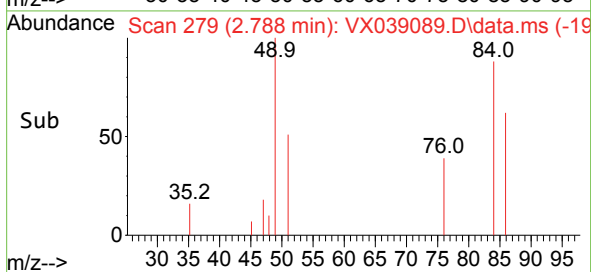
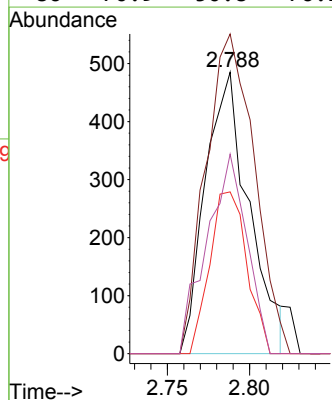
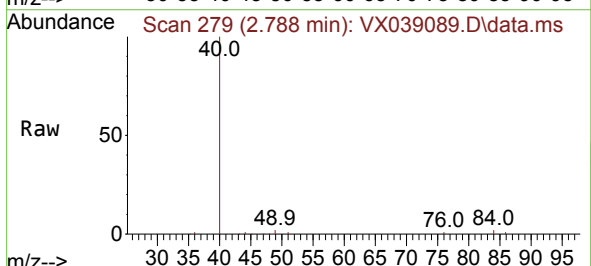
Instrument :
MSVOA_X
ClientSampleId :
001-WILLETS-PT-BLVD(DEC)

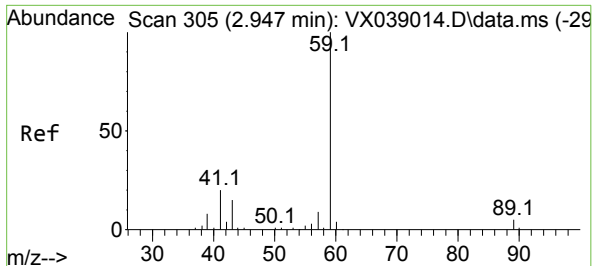
Tgt Ion: 76 Resp: 3550
Ion Ratio Lower Upper
76 100
78 10.3 8.0 12.0



#18
Methylene Chloride
Concen: 0.905 ug/l
RT: 2.788 min Scan# 279
Delta R.T. 0.000 min
Lab File: VX039089.D
Acq: 06 Dec 2023 15:19

Tgt Ion: 84 Resp: 894
Ion Ratio Lower Upper
84 100
49 113.6 103.8 155.8
51 57.5 31.8 47.6#
86 70.9 50.8 76.2

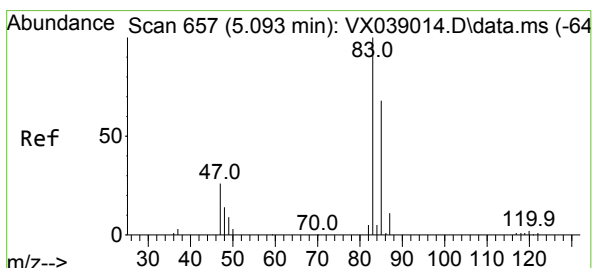
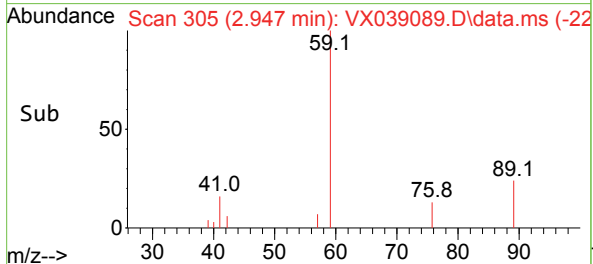
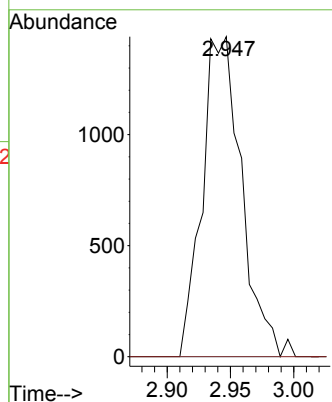
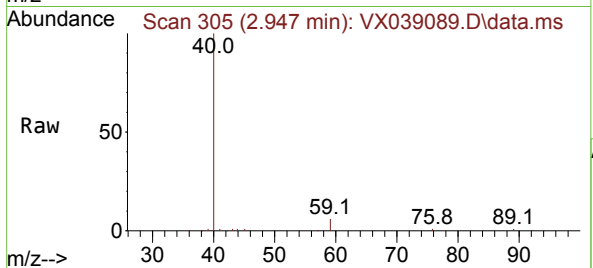




#23
tert-Butyl Alcohol
Concen: 8.787 ug/l
RT: 2.947 min Scan# 305
Delta R.T. 0.000 min
Lab File: VX039089.D
Acq: 06 Dec 2023 15:19

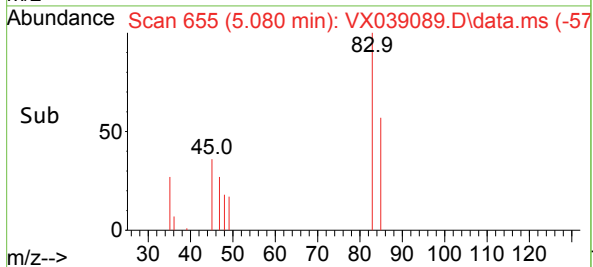
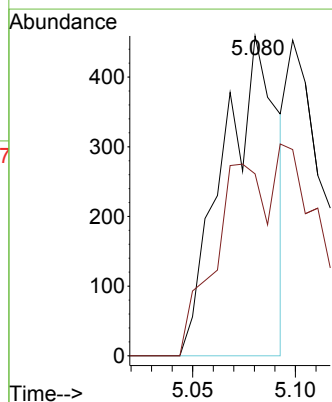
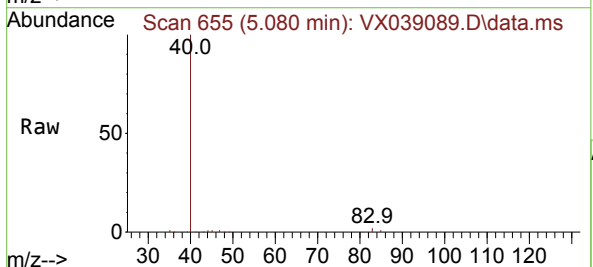
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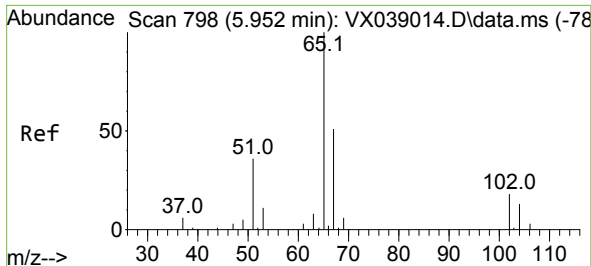
Tgt Ion: 59 Resp: 3092
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#25
Chloroform
Concen: 0.479 ug/l
RT: 5.080 min Scan# 655
Delta R.T. -0.012 min
Lab File: VX039089.D
Acq: 06 Dec 2023 15:19

Tgt Ion: 83 Resp: 842
Ion Ratio Lower Upper
83 100
85 56.9 54.6 81.8

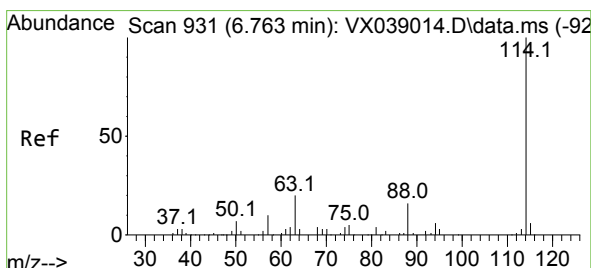
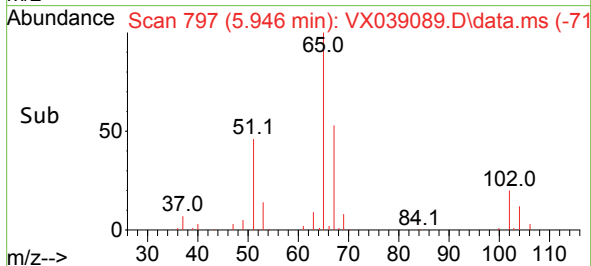
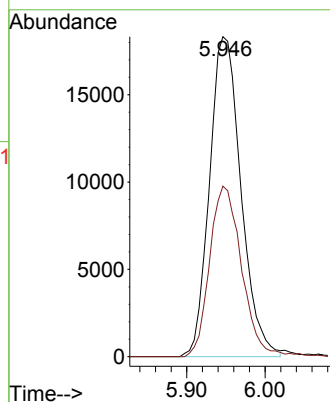
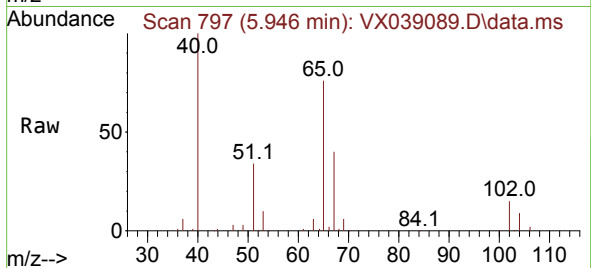




#27
1,2-Dichloroethane-d4
Concen: 60.998 ug/l
RT: 5.946 min Scan# 798
Delta R.T. -0.006 min
Lab File: VX039089.D
Acq: 06 Dec 2023 15:19

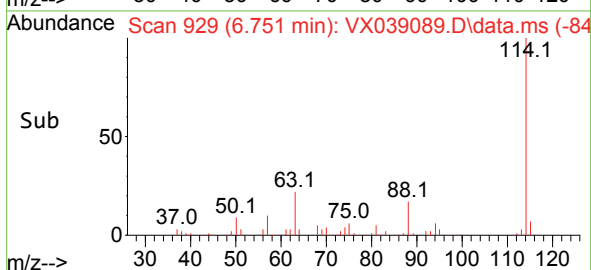
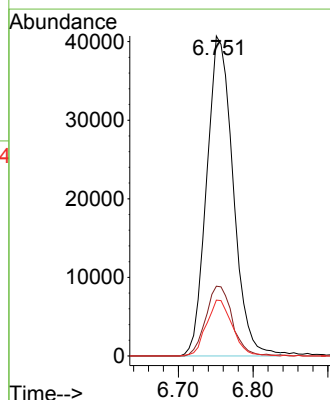
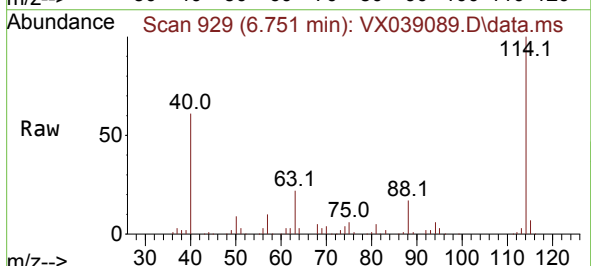
Instrument :
MSVOA_X
ClientSampleId :
001-WILLETS-PT-BLVD(DEC)

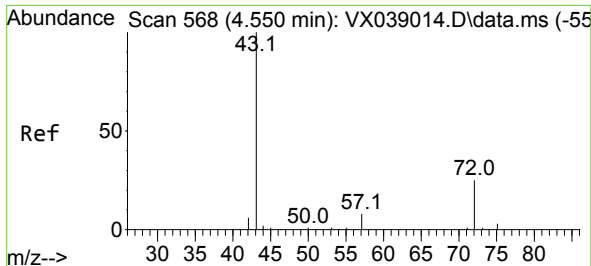
Tgt Ion: 65 Resp: 51121
Ion Ratio Lower Upper
65 100
67 53.9 42.5 63.7



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. -0.012 min
Lab File: VX039089.D
Acq: 06 Dec 2023 15:19

Tgt Ion: 114 Resp: 100065
Ion Ratio Lower Upper
114 100
63 21.7 17.0 25.4
88 17.1 12.7 19.1

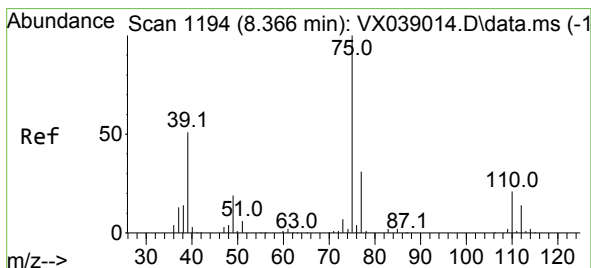
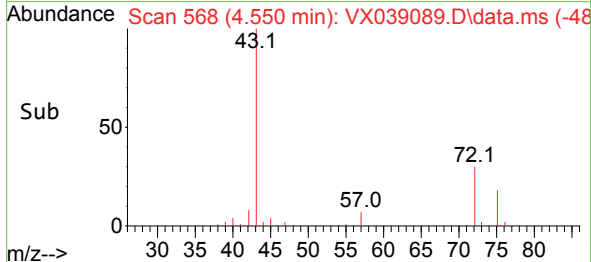
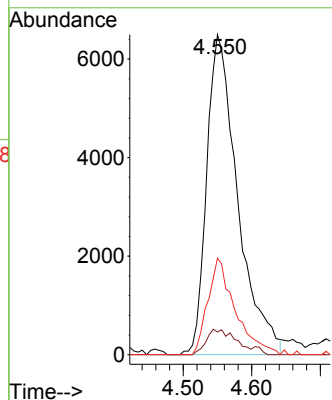
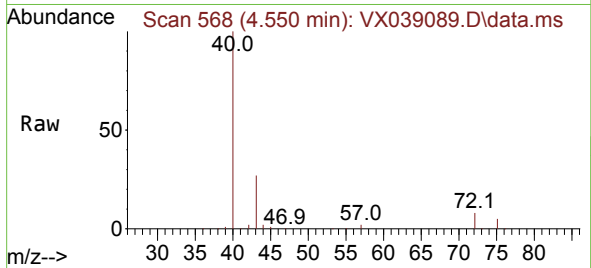




#30
2-Butanone
Concen: 9.658 ug/l
RT: 4.550 min Scan# 501
Delta R.T. 0.000 min
Lab File: VX039089.D
Acq: 06 Dec 2023 15:19

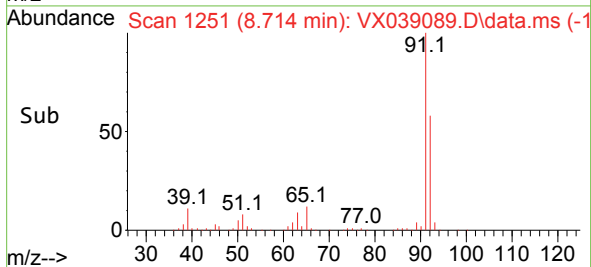
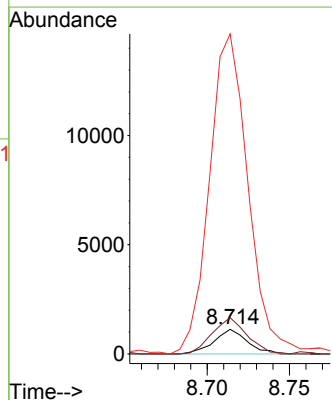
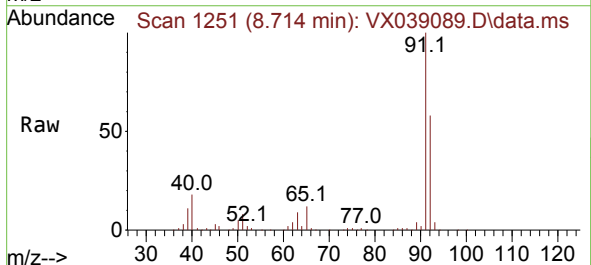
Instrument :
MSVOA_X
ClientSampleId :
001-WILLETS-PT-BLVD(DEC)

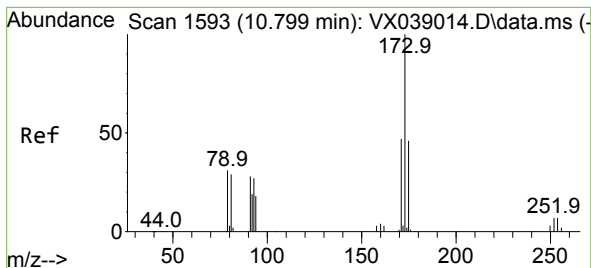
Tgt Ion: 43 Resp: 20397
Ion Ratio Lower Upper
43 100
57 7.4 6.6 10.0
72 26.6 20.6 31.0



#49
cis-1,3-Dichloropropene
Concen: 0.452 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.348 min
Lab File: VX039089.D
Acq: 06 Dec 2023 15:19

Tgt Ion: 75 Resp: 1582
Ion Ratio Lower Upper
75 100
77 146.9 24.4 36.6#
39 1277.4 40.6 60.8#





#56

Bromoform

Concen: 0.312 ug/l

RT: 11.079 min Scan# 1

Delta R.T. 0.280 min

Lab File: VX039089.D

Acq: 06 Dec 2023 15:19

Instrument :

MSVOA_X

ClientSampleId :

001-WILLETS-PT-BLVD(DEC)

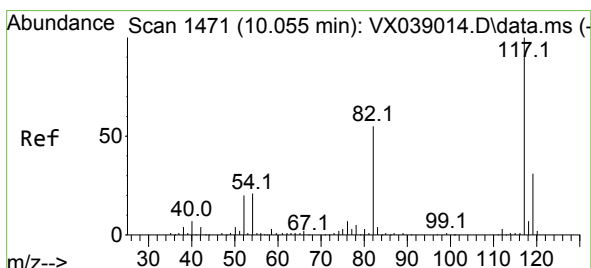
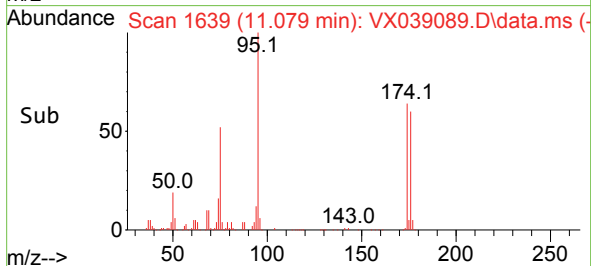
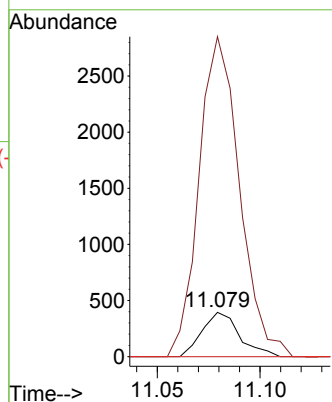
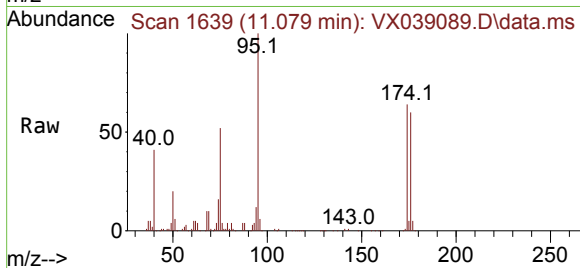
Tgt Ion:173 Resp: 500

Ion Ratio Lower Upper

173 100

175 781.0 37.6 56.4#

254 0.0 5.8 8.8#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.049 min Scan# 1470

Delta R.T. -0.006 min

Lab File: VX039089.D

Acq: 06 Dec 2023 15:19

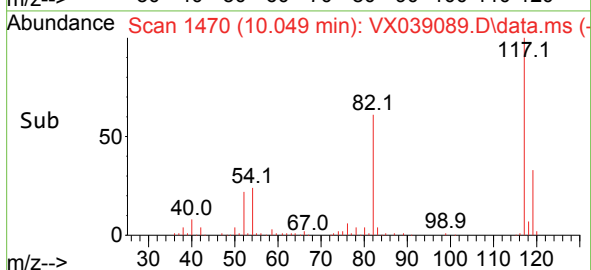
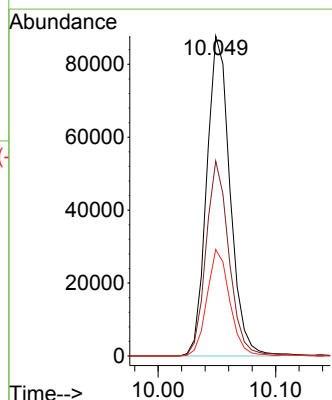
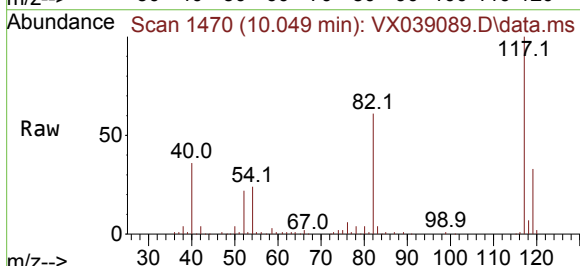
Tgt Ion:117 Resp: 121235

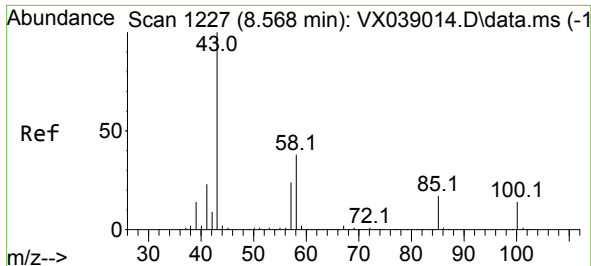
Ion Ratio Lower Upper

117 100

82 60.0 47.0 70.6

119 32.4 25.2 37.8

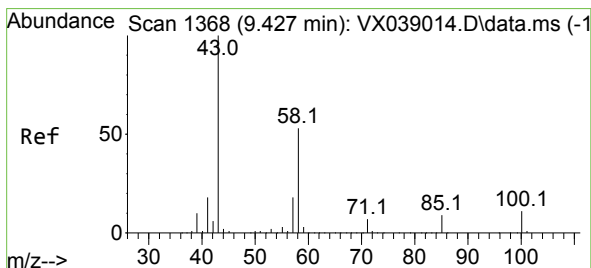
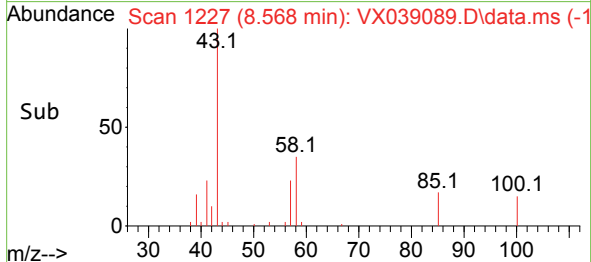
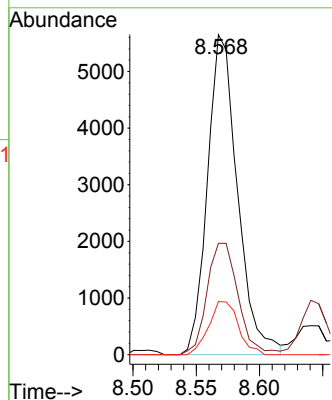
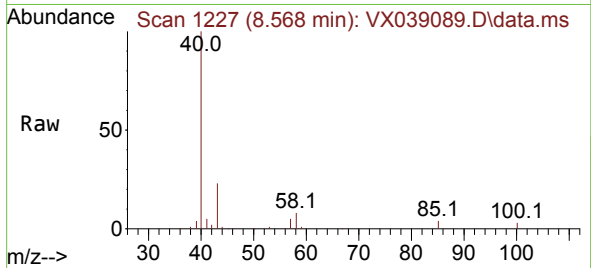




#58
4-Methyl-2-Pentanone
Concen: 2.539 ug/l
RT: 8.568 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX039089.D
Acq: 06 Dec 2023 15:19

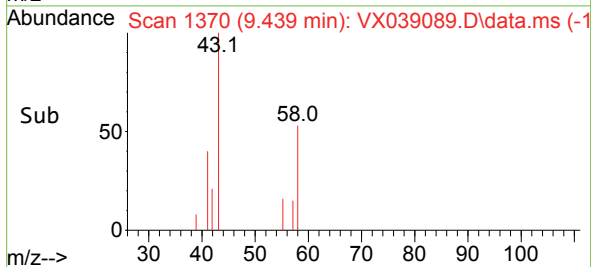
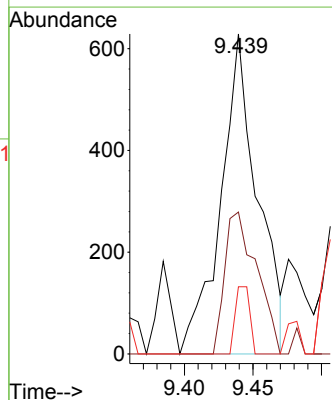
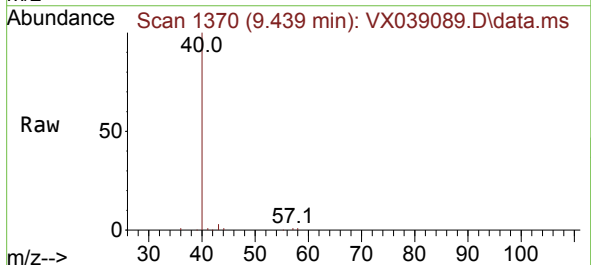
Instrument :
MSVOA_X
ClientSampleId :
001-WILLETS-PT-BLVD(DEC)

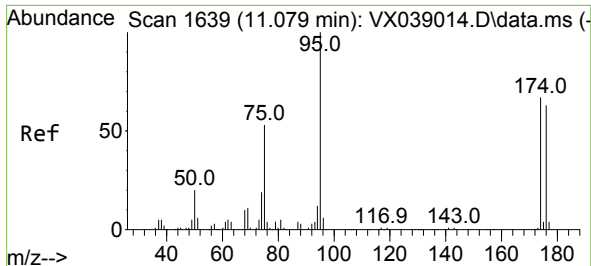
Tgt Ion: 43 Resp: 9335
Ion Ratio Lower Upper
43 100
58 35.5 30.1 45.1
85 16.3 13.9 20.9



#59
2-Hexanone
Concen: 0.388 ug/l
RT: 9.439 min Scan# 1370
Delta R.T. 0.012 min
Lab File: VX039089.D
Acq: 06 Dec 2023 15:19

Tgt Ion: 43 Resp: 1170
Ion Ratio Lower Upper
43 100
58 38.6 42.7 64.1#
57 8.3 14.8 22.2#

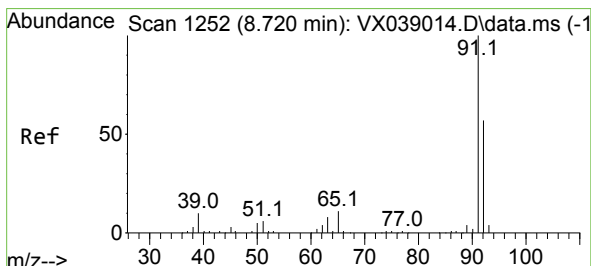
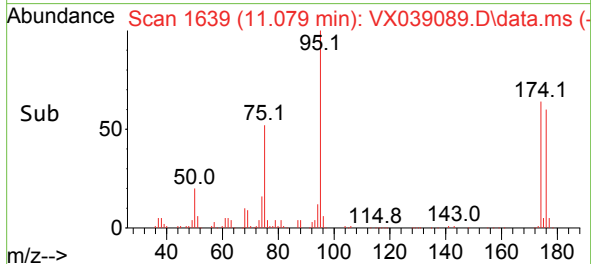
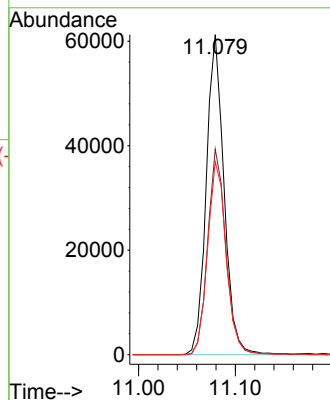
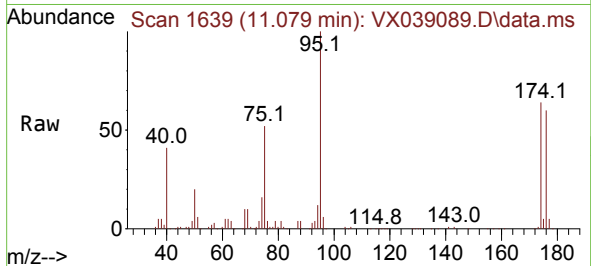




#60
4-Bromofluorobenzene
Concen: 29.542 ug/l
RT: 11.079 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX039089.D
Acq: 06 Dec 2023 15:19

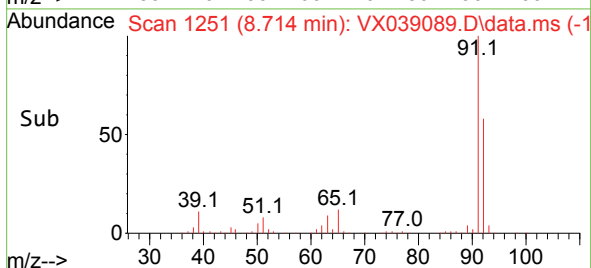
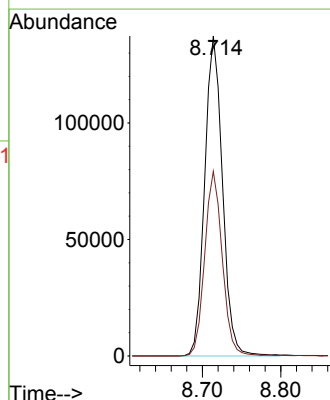
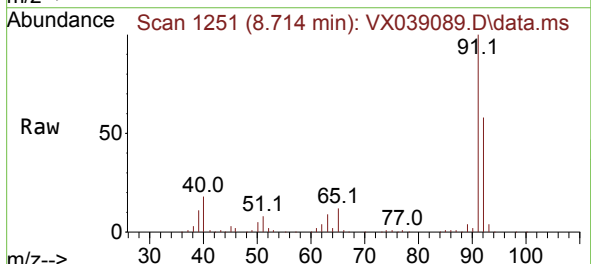
Instrument :
MSVOA_X
ClientSampleId :
001-WILLETS-PT-BLVD(DEC)

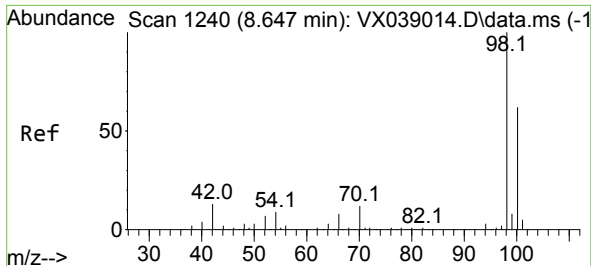
Tgt Ion: 95 Resp: 78227
Ion Ratio Lower Upper
95 100
174 65.7 55.4 83.2
176 62.9 52.6 78.8



#62
Toluene
Concen: 25.122 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.006 min
Lab File: VX039089.D
Acq: 06 Dec 2023 15:19

Tgt Ion: 91 Resp: 216236
Ion Ratio Lower Upper
91 100
92 56.8 45.9 68.9

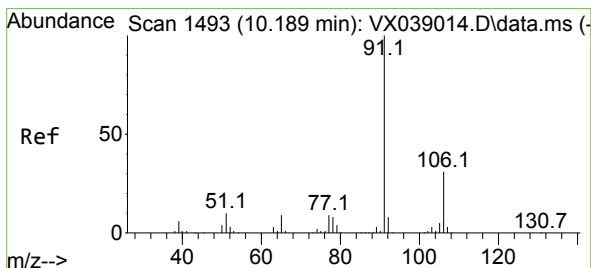
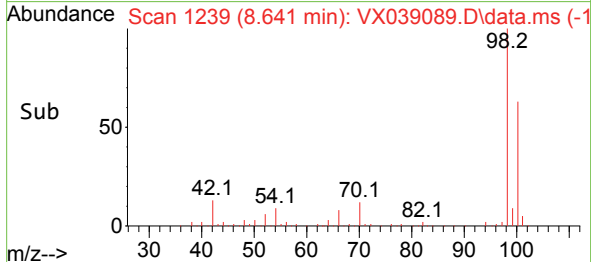
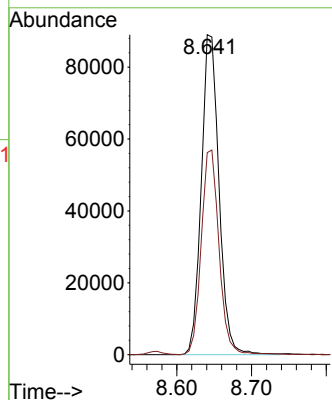
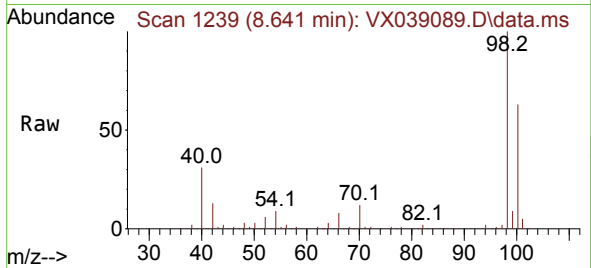




#63
Toluene-d8
Concen: 30.526 ug/l
RT: 8.641 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX039089.D
Acq: 06 Dec 2023 15:19

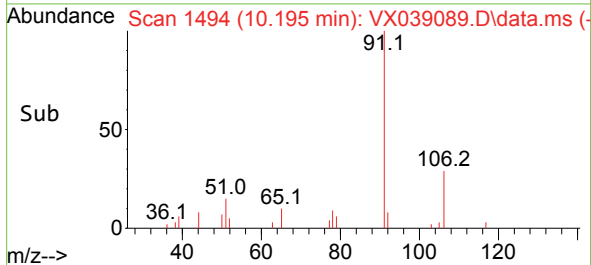
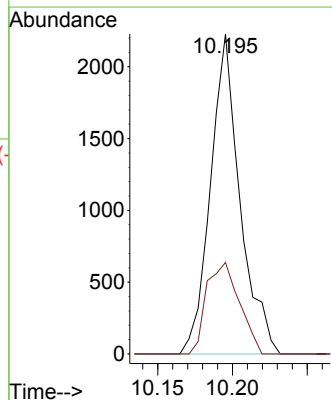
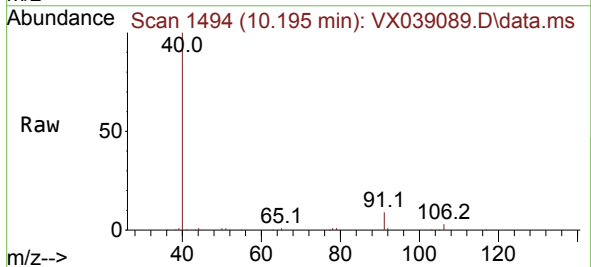
Instrument :
MSVOA_X
ClientSampleId :
001-WILLETS-PT-BLVD(DEC)

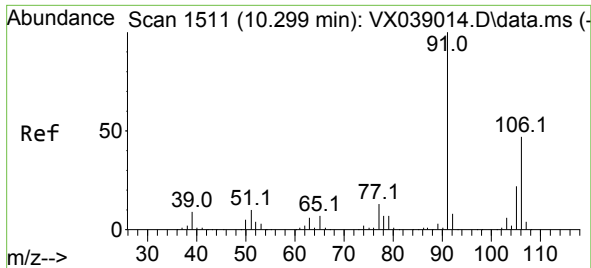
Tgt Ion: 98 Resp: 146318
Ion Ratio Lower Upper
98 100
100 64.3 51.0 76.4



#66
Ethyl Benzene
Concen: 0.311 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. 0.006 min
Lab File: VX039089.D
Acq: 06 Dec 2023 15:19

Tgt Ion: 91 Resp: 3053
Ion Ratio Lower Upper
91 100
106 28.6 24.4 36.6

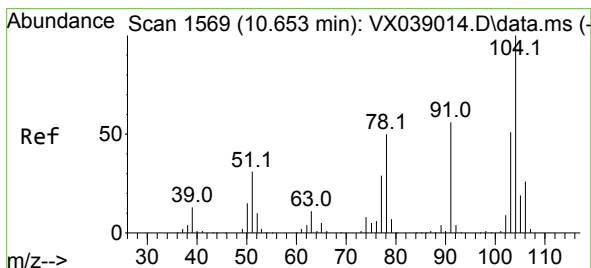
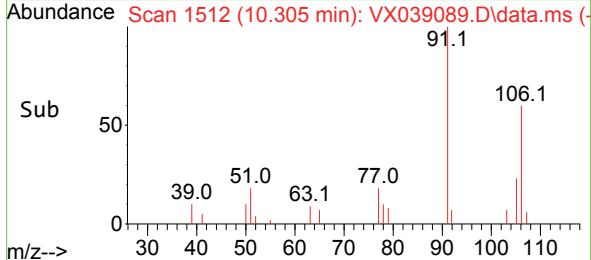
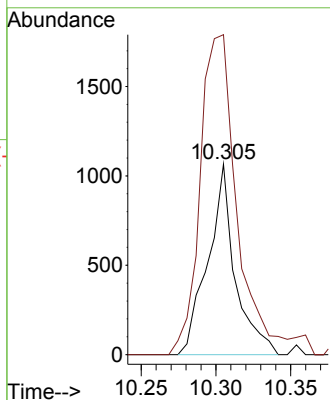
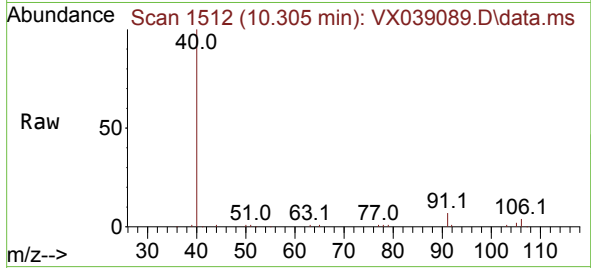




#67
m/p-Xylenes
Concen: 0.372 ug/l
RT: 10.305 min Scan# 1511
Delta R.T. 0.006 min
Lab File: VX039089.D
Acq: 06 Dec 2023 15:19

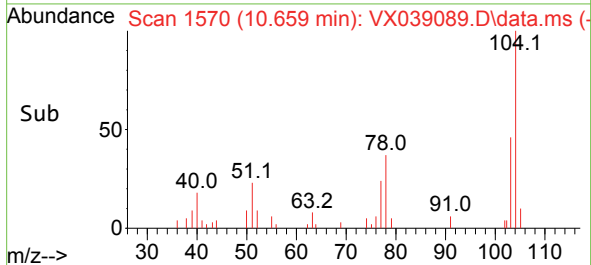
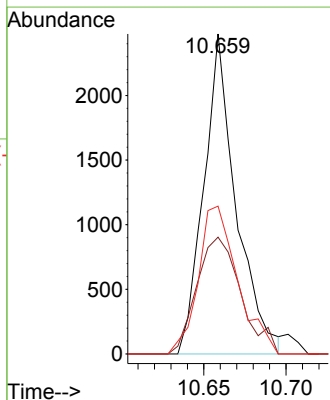
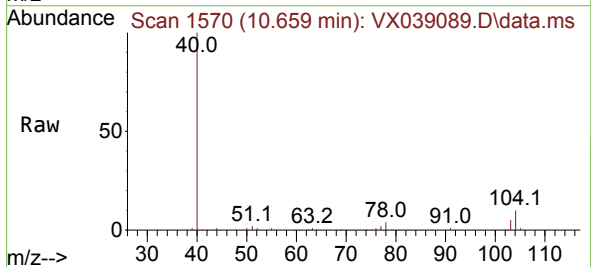
Instrument :
MSVOA_X
ClientSampleId :
001-WILLETS-PT-BLVD(DEC)

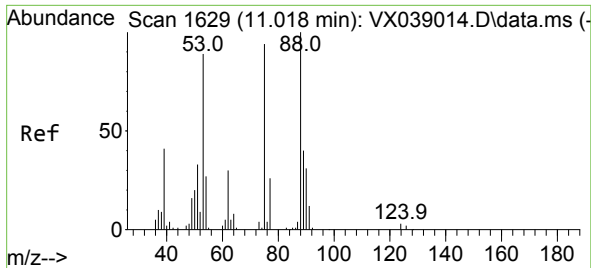
Tgt Ion:106 Resp: 1346
Ion Ratio Lower Upper
106 100
91 226.2 169.4 254.0



#69
Styrene
Concen: 0.650 ug/l
RT: 10.659 min Scan# 1570
Delta R.T. 0.006 min
Lab File: VX039089.D
Acq: 06 Dec 2023 15:19

Tgt Ion:104 Resp: 3377
Ion Ratio Lower Upper
104 100
78 47.5 43.7 65.5
103 56.3 44.6 67.0

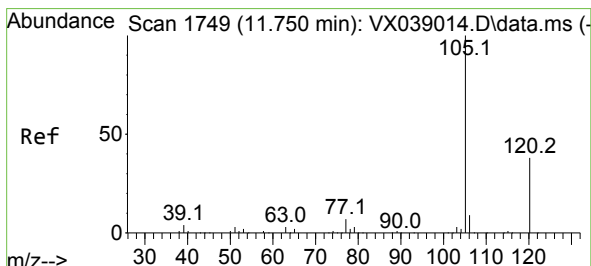
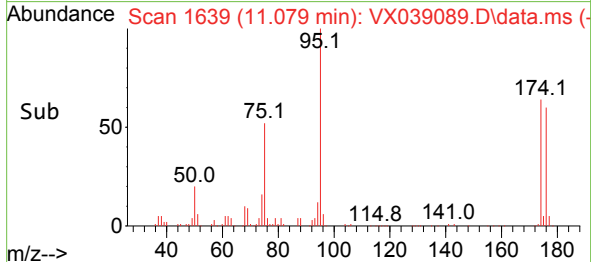
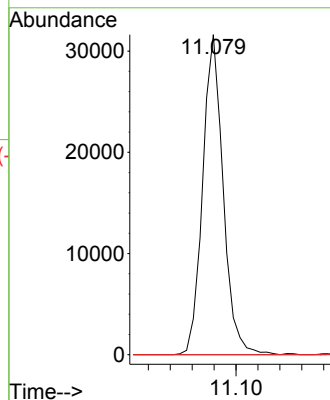
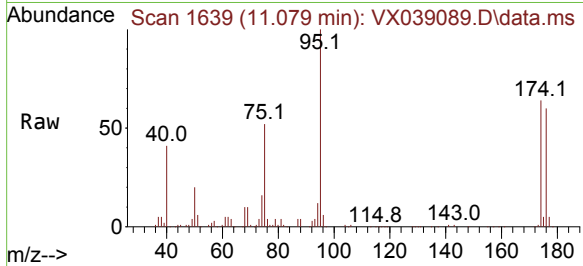




#77
t-1,4-Dichloro-2-butene
Concen: 34.885 ug/l
RT: 11.079 min Scan# 11
Delta R.T. 0.061 min
Lab File: VX039089.D
Acq: 06 Dec 2023 15:19

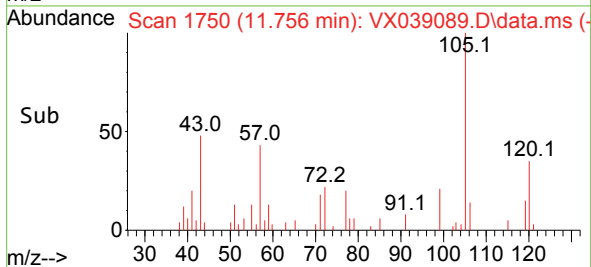
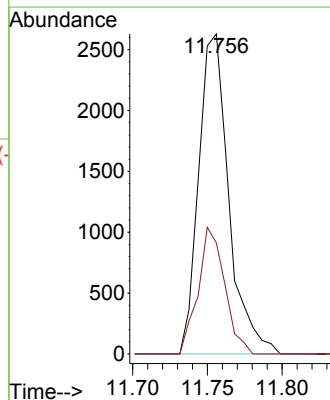
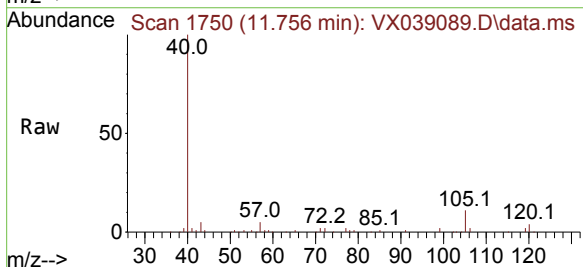
Instrument :
MSVOA_X
ClientSampleId :
001-WILLETS-PT-BLVD(DEC)

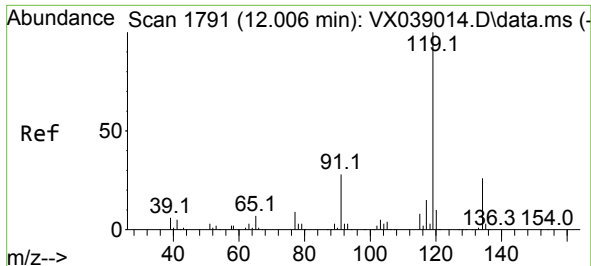
Tgt Ion: 75 Resp: 40986
Ion Ratio Lower Upper
75 100
53 0.0 46.9 140.8#
89 0.0 21.3 63.7#



#80
1,2,4-Trimethylbenzene
Concen: 0.454 ug/l
RT: 11.756 min Scan# 1750
Delta R.T. 0.006 min
Lab File: VX039089.D
Acq: 06 Dec 2023 15:19

Tgt Ion: 105 Resp: 3675
Ion Ratio Lower Upper
105 100
120 34.9 0.0 86.4

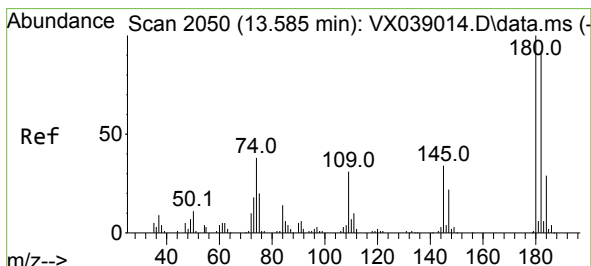
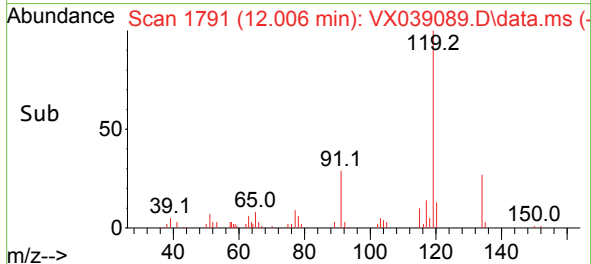
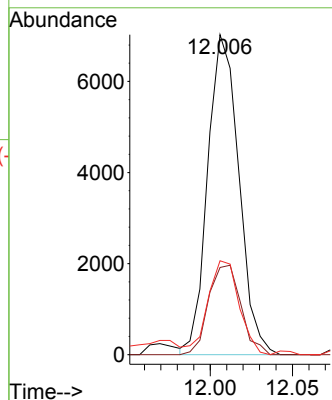
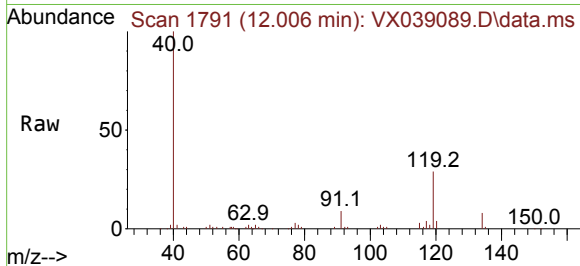




#82
 p-Isopropyltoluene
 Concen: 1.122 ug/l
 RT: 12.006 min Scan# 119
 Delta R.T. 0.000 min
 Lab File: VX039089.D
 Acq: 06 Dec 2023 15:19

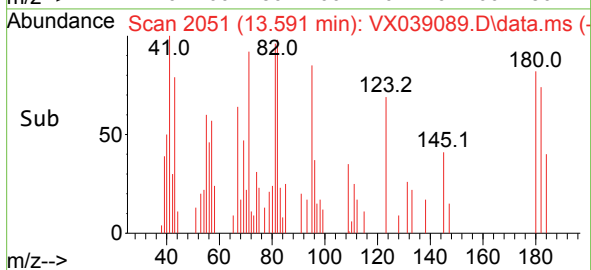
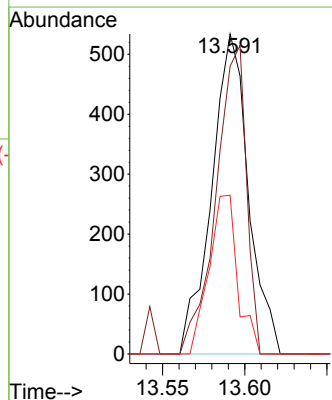
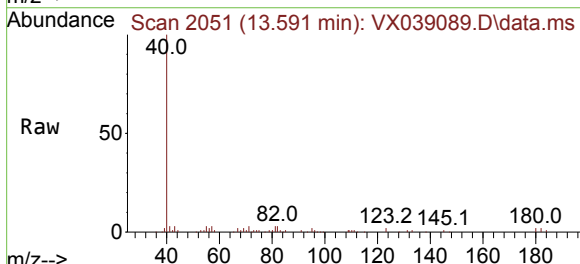
Instrument :
 MSVOA_X
 ClientSampleId :
 001-WILLETS-PT-BLVD(DEC)

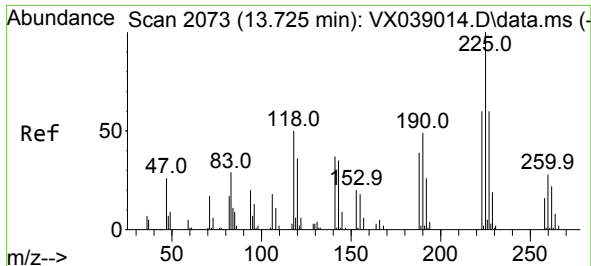
Tgt Ion:	119	Resp:	9245
Ion Ratio	Lower	Upper	
119	100		
134	29.0	0.0	52.6
91	29.6	0.0	54.2



#89
 1,2,4-Trichlorobenzene
 Concen: 0.319 ug/l
 RT: 13.591 min Scan# 2051
 Delta R.T. 0.006 min
 Lab File: VX039089.D
 Acq: 06 Dec 2023 15:19

Tgt Ion:	180	Resp:	833
Ion Ratio	Lower	Upper	
180	100		
182	79.1	74.5	111.7
145	38.4	26.6	40.0

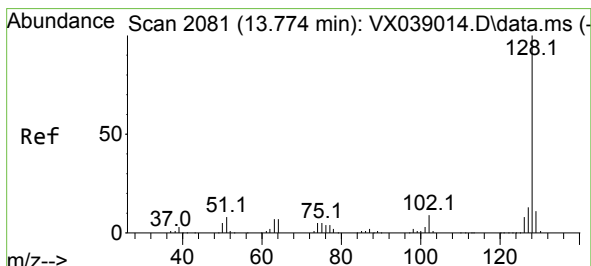
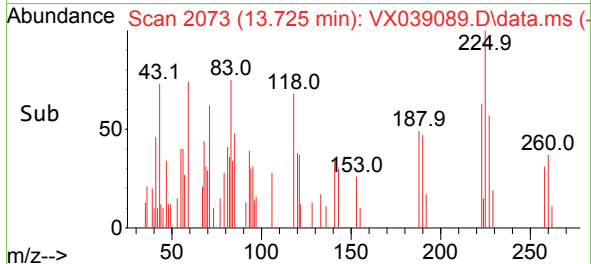
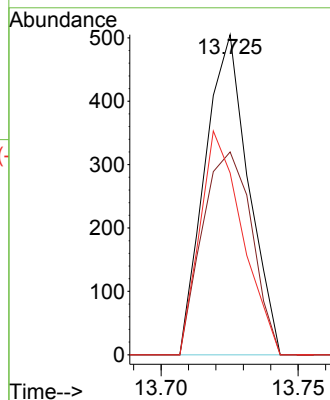
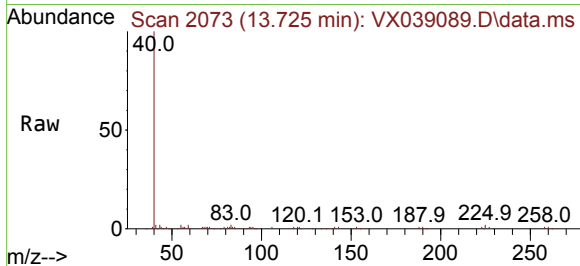




#90
Hexachlorobutadiene
Concen: 0.597 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX039089.D
Acq: 06 Dec 2023 15:19

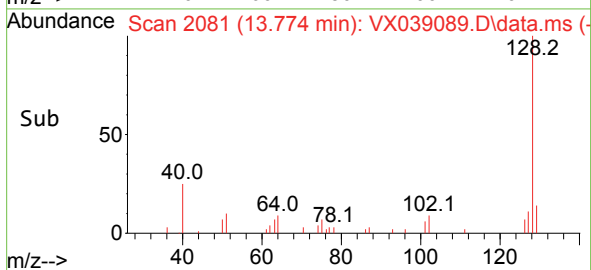
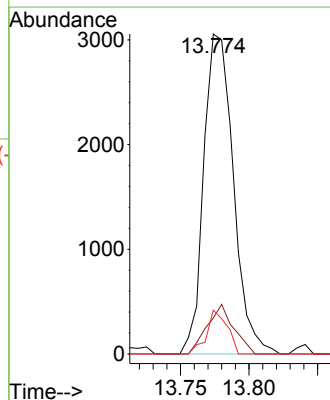
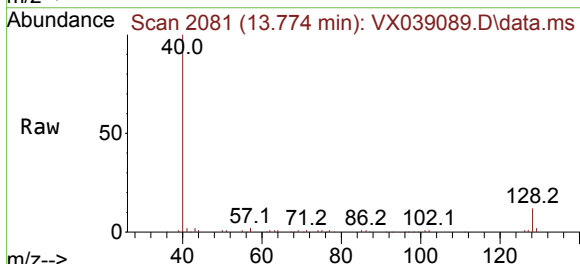
Instrument :
MSVOA_X
ClientSampleId :
001-WILLETS-PT-BLVD(DEC)

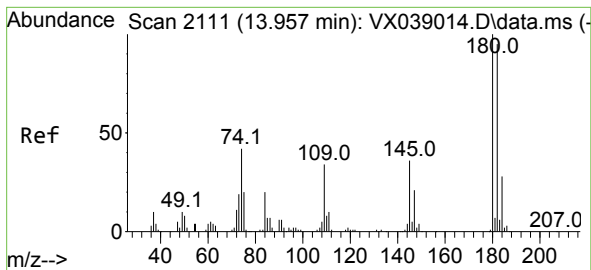
Tgt Ion:	225	Resp:	556
Ion	Ratio	Lower	Upper
225	100		
223	72.3	0.0	124.4
227	68.3	0.0	124.4



#91
Naphthalene
Concen: 0.480 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. 0.000 min
Lab File: VX039089.D
Acq: 06 Dec 2023 15:19

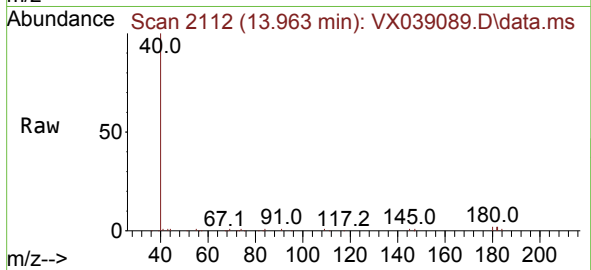
Tgt Ion:	128	Resp:	4611
Ion	Ratio	Lower	Upper
128	100		
127	13.8	10.2	15.2
129	9.4	8.6	12.8





#92
 1,2,3-Trichlorobenzene
 Concen: 0.247 ug/l
 RT: 13.963 min Scan# 2111
 Delta R.T. 0.006 min
 Lab File: VX039089.D
 Acq: 06 Dec 2023 15:19

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



Tgt Ion:	180	Resp:	623
Ion	Ratio	Lower	Upper
180	100		
182	123.1	0.0	191.6
145	44.6	0.0	69.6

