

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011323\
 Data File : VN076245.D
 Acq On : 13 Jan 2023 13:50
 Operator : JC\MD
 Sample : 01132-05
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TCLP-VOC-1

Quant Time: Jan 16 01:07:46 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N121422W.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 14 13:03:41 2022
 Response via : Initial Calibration

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

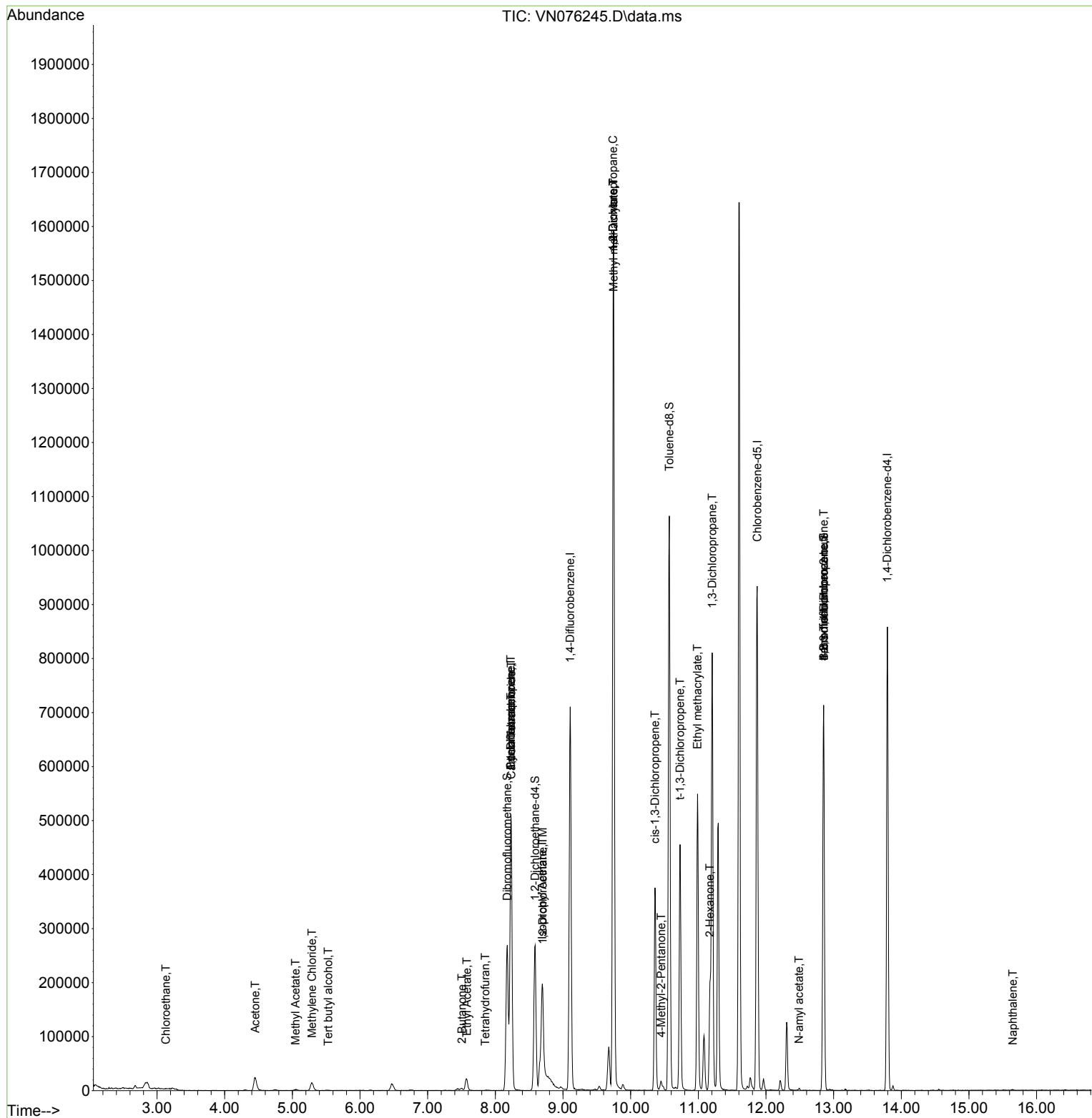
Internal Standards						
1) Pentafluorobenzene	8.230	168	382850	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	640700	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	567821	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	240265	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	218970	52.573	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 105.140%	
35) Dibromofluoromethane	8.177	113	188892	47.607	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 95.220%	
50) Toluene-d8	10.571	98	748126	50.430	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 100.860%	
62) 4-Bromofluorobenzene	12.853	95	235578	47.945	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 95.880%	
Target Compounds						
					Qvalue	
6) Chloroethane	3.130	64	726	0.243	ug/l #	44
11) Tert butyl alcohol	5.530	59	232	0.394	ug/l #	72
16) Acetone	4.453	43	46795	32.592	ug/l	95
18) Methyl Acetate	5.047	43	3947	0.930	ug/l #	84
20) Methylene Chloride	5.289	84	12564	2.665	ug/l	94
25) 2-Butanone	7.506	43	6545	3.256	ug/l	98
29) Tetrahydrofuran	7.853	42	427	0.339	ug/l #	88
31) Cyclohexane	8.230	56	7911	1.326	ug/l #	34
36) 1,1-Dichloropropene	8.230	75	29653	5.626	ug/l #	48
37) Ethyl Acetate	7.583	43	33086	7.815	ug/l	99
38) Carbon Tetrachloride	8.235	117	37651	6.382	ug/l #	17
42) 1,2-Dichloroethane	8.700	62	1707	0.316	ug/l #	72
43) Isopropyl Acetate	8.694	43	267875	38.356	ug/l #	77
45) 1,2-Dichloropropane	9.741	63	1916	0.484	ug/l #	43
48) Methyl methacrylate	9.747	41	140317	44.609	ug/l #	34
49) 1,4-Dioxane	9.741	88	140	1.810	ug/l #	1
51) 4-Methyl-2-Pentanone	10.453	43	9286	2.199	ug/l	92
53) t-1,3-Dichloropropene	10.729	75	1210	0.215	ug/l #	68
54) cis-1,3-Dichloropropene	10.359	75	73907	11.947	ug/l #	66
56) Ethyl methacrylate	10.988	69	2073	0.375	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	9377	1.375	ug/l #	42
59) 2-Hexanone	11.171	43	145556	47.257	ug/l #	20
71) Bromoform	12.853	173	2019	0.643	ug/l #	1
74) N-amyl acetate	12.488	43	1783	0.350	ug/l #	37
76) 1,2,3-Trichloropropane	12.853	75	122162	25.224	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	122162	90.792	ug/l #	12
95) Naphthalene	15.647	128	1692	2.301	ug/l #	79

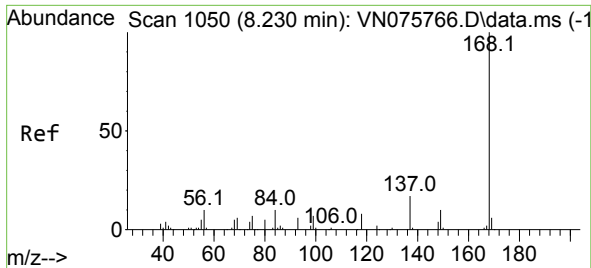
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Dec 14 13:03:41 2022
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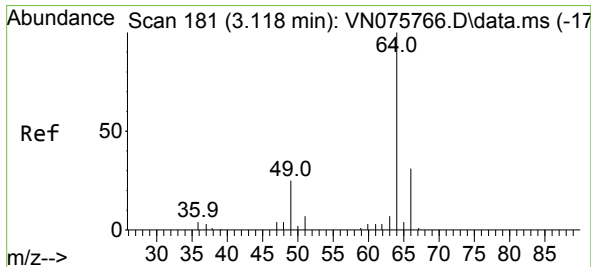
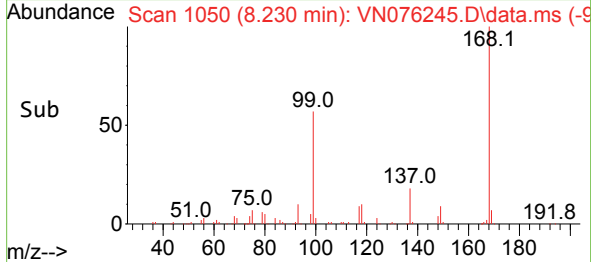
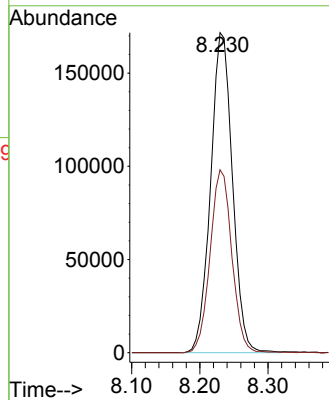
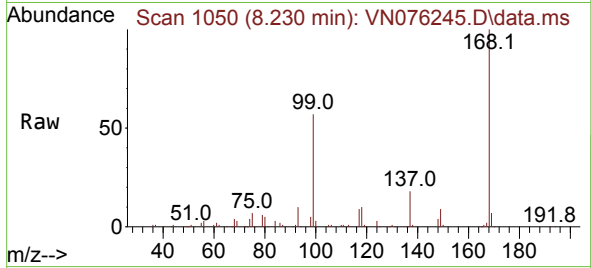




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN076245.D
Acq: 13 Jan 2023 13:50

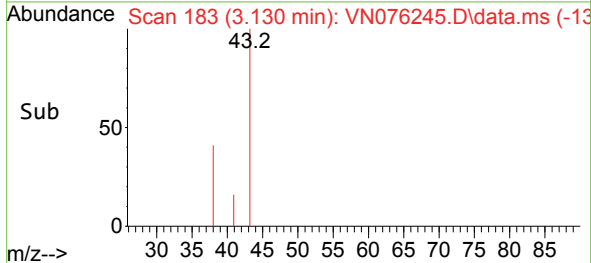
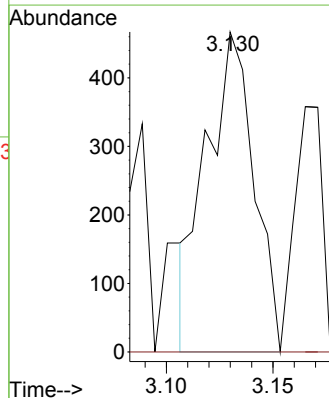
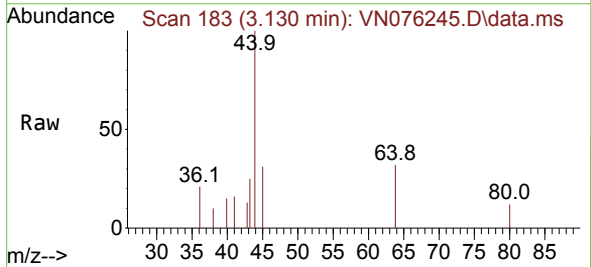
Instrument :
MSVOA_N
ClientSampleId :
TCLP-VOC-1

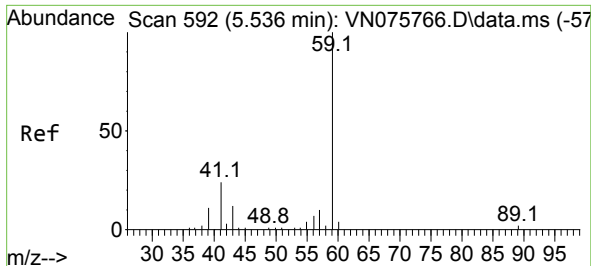
Tgt Ion:168 Resp: 382850
Ion Ratio Lower Upper
168 100
99 57.2 44.2 66.4



#6
Chloroethane
Concen: 0.243 ug/l
RT: 3.130 min Scan# 183
Delta R.T. 0.012 min
Lab File: VN076245.D
Acq: 13 Jan 2023 13:50

Tgt Ion: 64 Resp: 726
Ion Ratio Lower Upper
64 100
66 0.0 24.6 36.8#

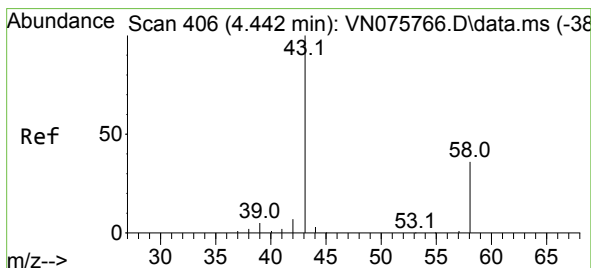
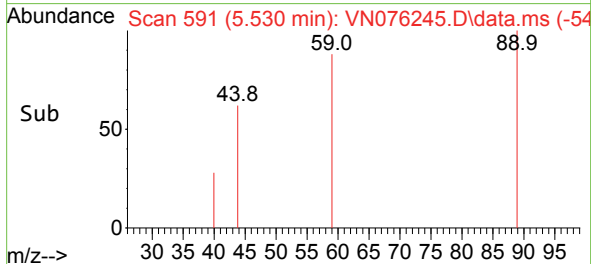
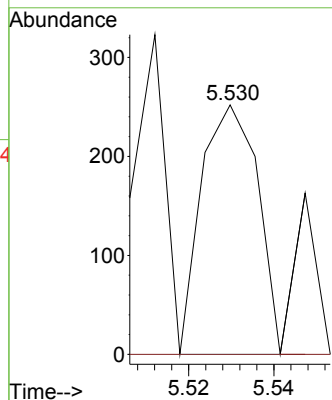
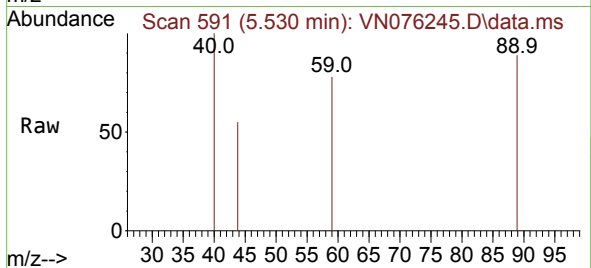




#11
Tert butyl alcohol
Concen: 0.394 ug/l
RT: 5.530 min Scan# 591
Delta R.T. -0.006 min
Lab File: VN076245.D
Acq: 13 Jan 2023 13:50

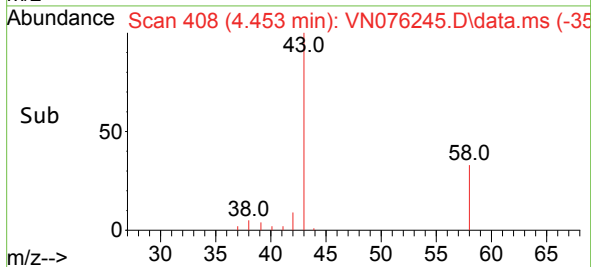
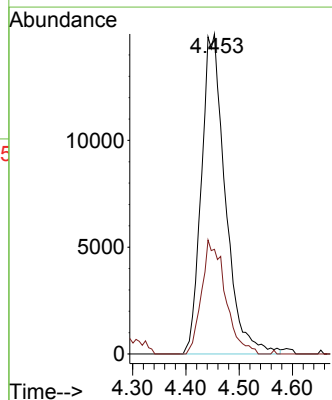
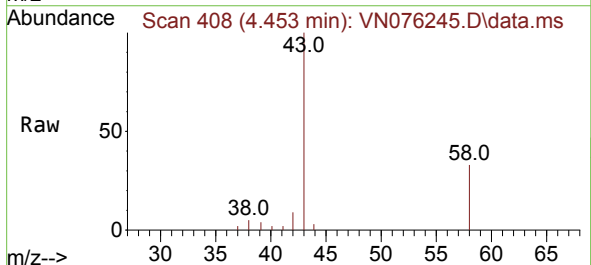
Instrument :
MSVOA_N
ClientSampleId :
TCLP-VOC-1

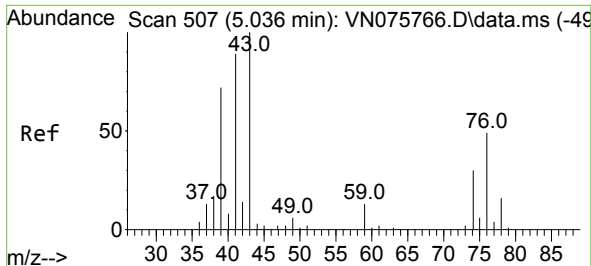
Tgt Ion: 59 Resp: 232
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#16
Acetone
Concen: 32.592 ug/l
RT: 4.453 min Scan# 408
Delta R.T. 0.012 min
Lab File: VN076245.D
Acq: 13 Jan 2023 13:50

Tgt Ion: 43 Resp: 46795
Ion Ratio Lower Upper
43 100
58 32.7 28.6 43.0

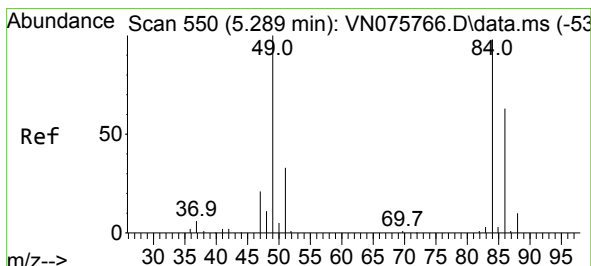
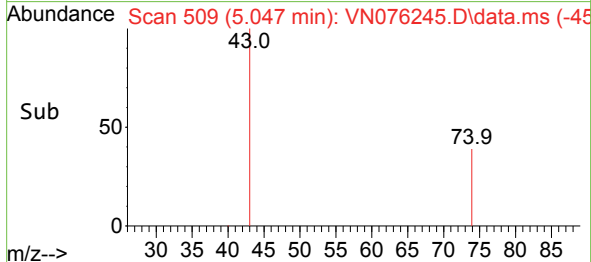
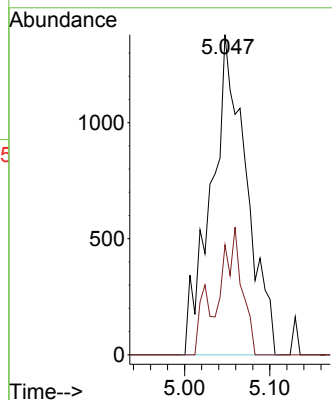
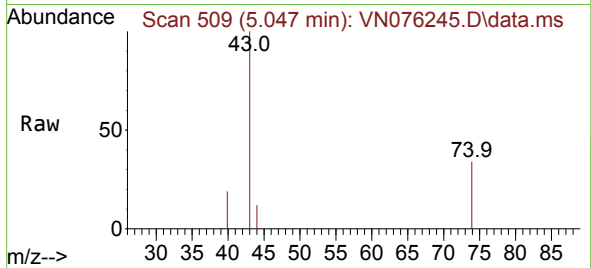




#18
Methyl Acetate
Concen: 0.930 ug/l
RT: 5.047 min Scan# 509
Delta R.T. 0.012 min
Lab File: VN076245.D
Acq: 13 Jan 2023 13:50

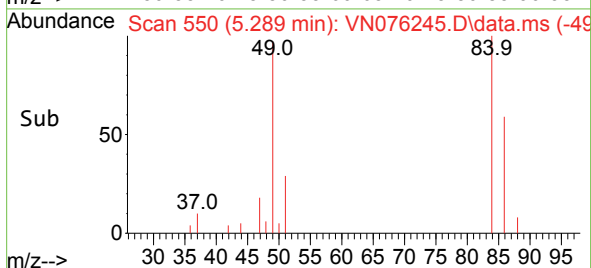
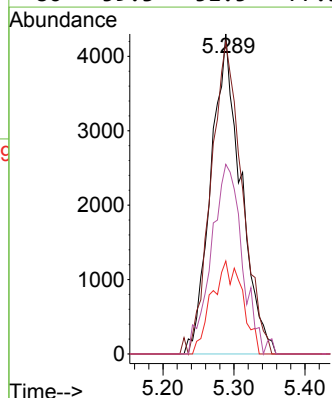
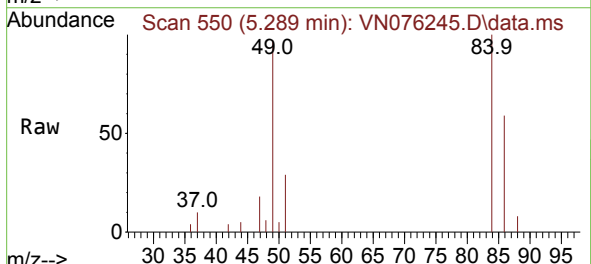
Instrument :
MSVOA_N
ClientSampleId :
TCLP-VOC-1

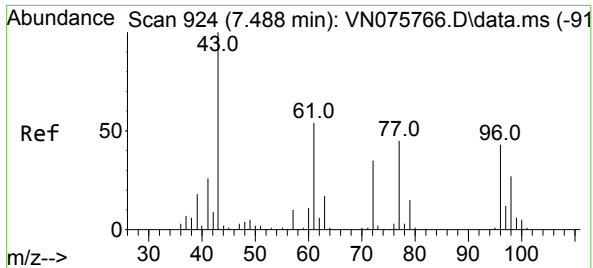
Tgt Ion: 43 Resp: 3947
Ion Ratio Lower Upper
43 100
74 20.7 23.6 35.4#



#20
Methylene Chloride
Concen: 2.665 ug/l
RT: 5.289 min Scan# 550
Delta R.T. -0.000 min
Lab File: VN076245.D
Acq: 13 Jan 2023 13:50

Tgt Ion: 84 Resp: 12564
Ion Ratio Lower Upper
84 100
49 97.5 81.8 122.6
51 29.1 26.7 40.1
86 59.3 51.5 77.3

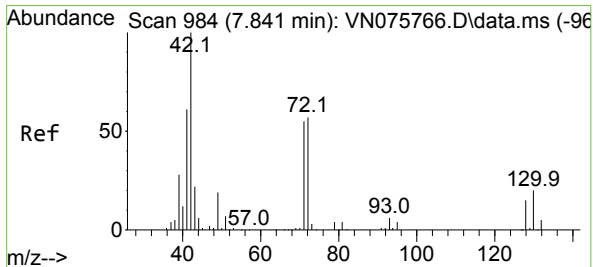
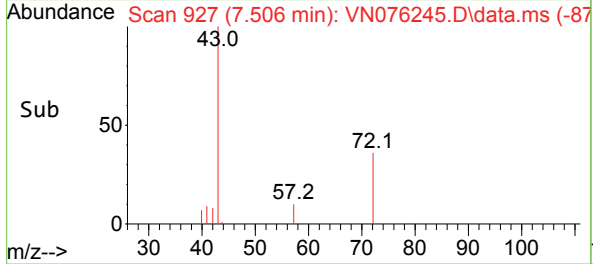
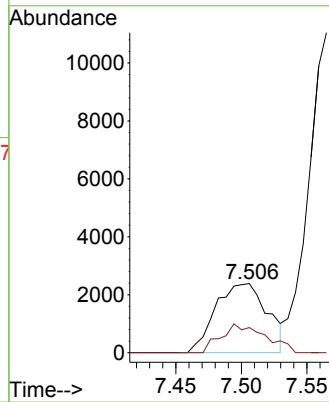
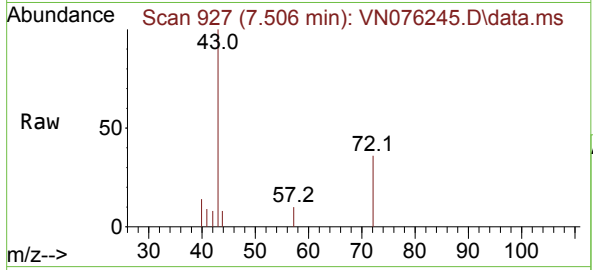




#25
2-Butanone
Concen: 3.256 ug/l
RT: 7.506 min Scan# 91
Delta R.T. 0.018 min
Lab File: VN076245.D
Acq: 13 Jan 2023 13:50

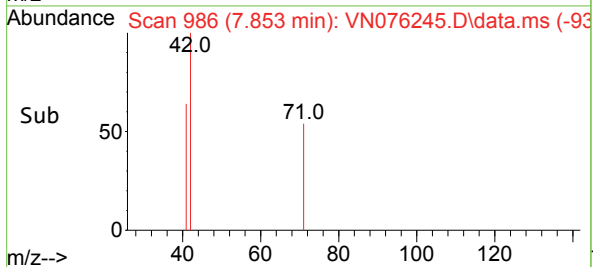
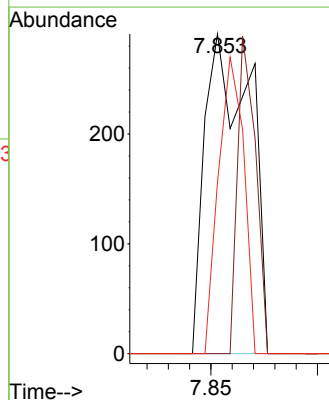
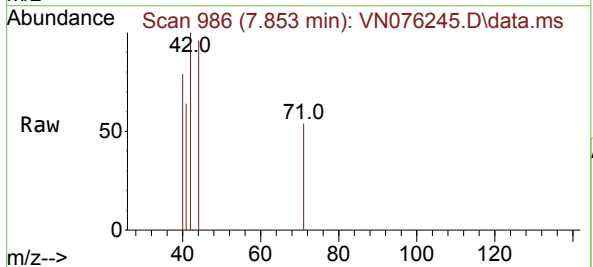
Instrument :
MSVOA_N
ClientSampleId :
TCLP-VOC-1

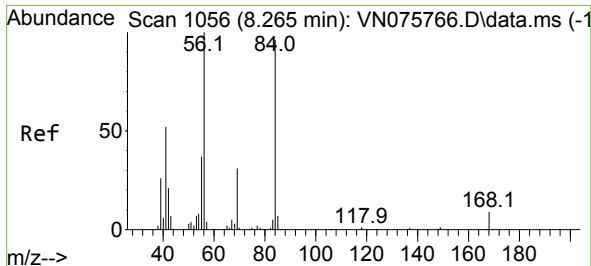
Tgt Ion: 43 Resp: 6545
Ion Ratio Lower Upper
43 100
72 36.3 28.0 42.0



#29
Tetrahydrofuran
Concen: 0.339 ug/l
RT: 7.853 min Scan# 986
Delta R.T. 0.012 min
Lab File: VN076245.D
Acq: 13 Jan 2023 13:50

Tgt Ion: 42 Resp: 427
Ion Ratio Lower Upper
42 100
72 40.0 44.5 66.7#
71 52.0 41.0 61.6





#31

Cyclohexane

Concen: 1.326 ug/l

RT: 8.230 min Scan# 1050

Delta R.T. -0.035 min

Lab File: VN076245.D

Acq: 13 Jan 2023 13:50

Instrument :

MSVOA_N

ClientSampleId :

TCLP-VOC-1

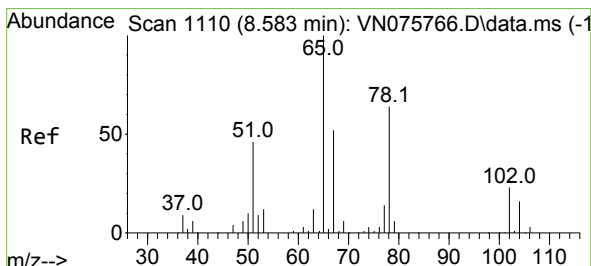
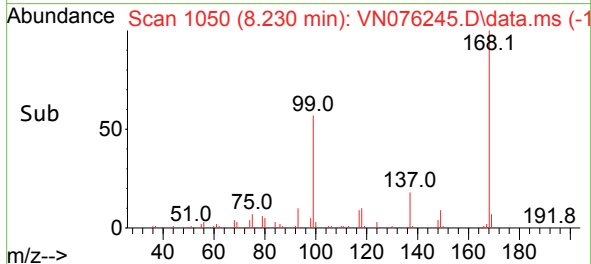
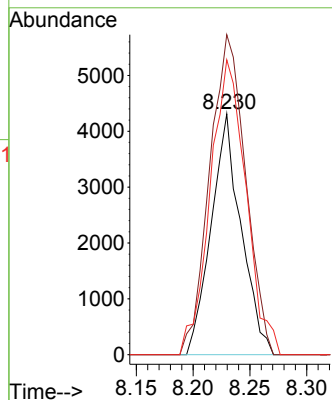
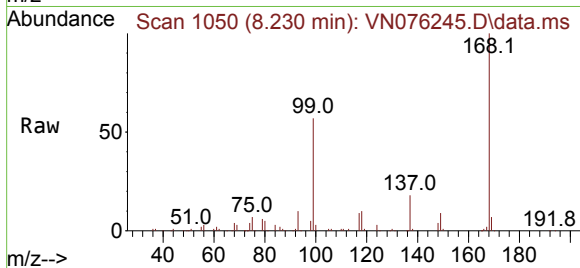
Tgt Ion: 56 Resp: 7911

Ion Ratio Lower Upper

56 100

69 132.9 24.7 37.1#

84 122.4 76.5 114.7#



#33

1,2-Dichloroethane-d4

Concen: 52.573 ug/l

RT: 8.588 min Scan# 1111

Delta R.T. 0.006 min

Lab File: VN076245.D

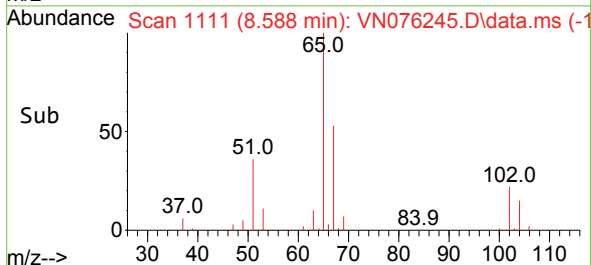
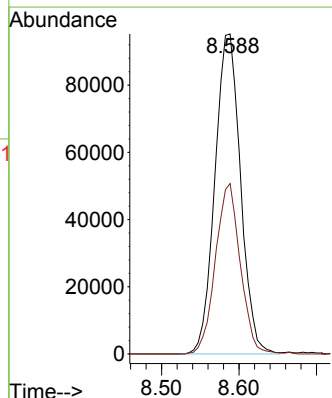
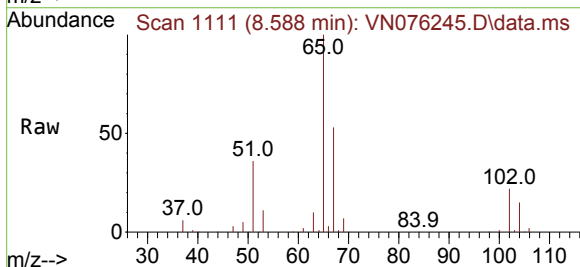
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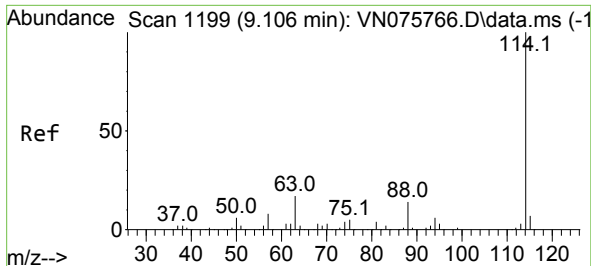
Tgt Ion: 65 Resp: 218970

Ion Ratio Lower Upper

65 100

67 51.7 0.0 103.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1199

Delta R.T. -0.000 min

Lab File: VN076245.D

Acq: 13 Jan 2023 13:50

Instrument :

MSVOA_N

ClientSampleId :

TCLP-VOC-1

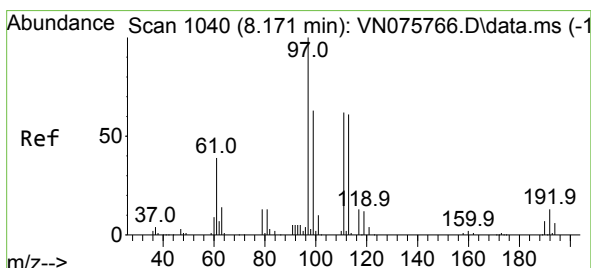
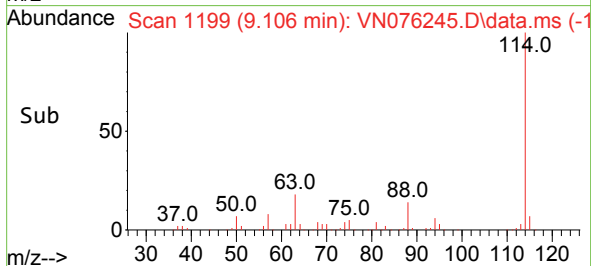
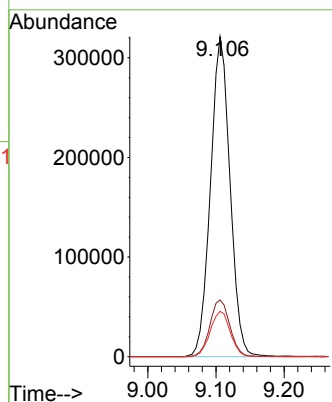
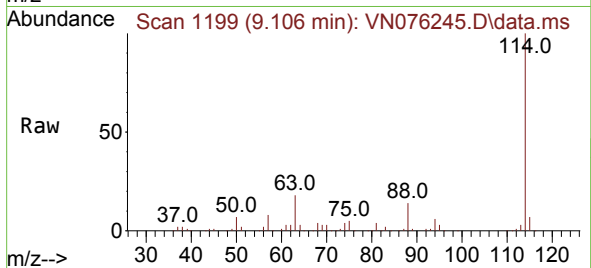
Tgt Ion:114 Resp: 640700

Ion Ratio Lower Upper

114 100

63 17.7 0.0 34.4

88 14.1 0.0 28.8



#35

Dibromofluoromethane

Concen: 47.607 ug/l

RT: 8.177 min Scan# 1041

Delta R.T. 0.006 min

Lab File: VN076245.D

Acq: 13 Jan 2023 13:50

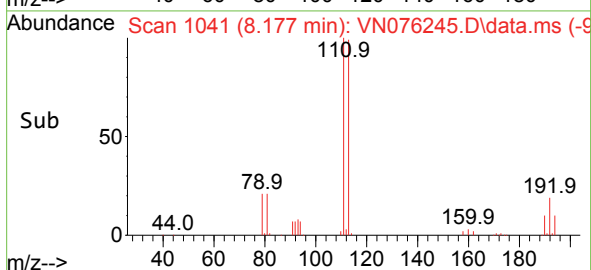
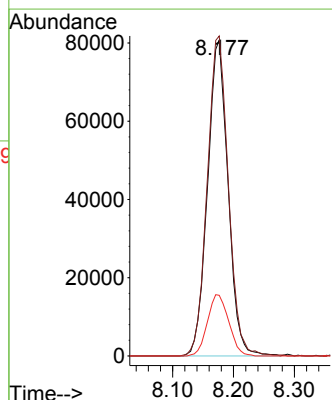
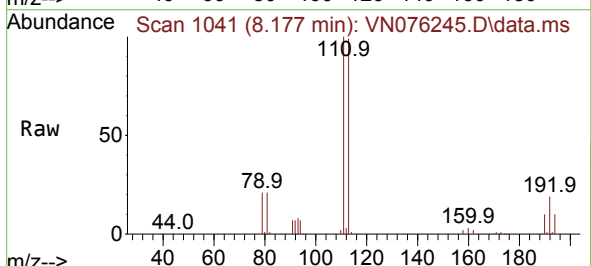
Tgt Ion:113 Resp: 188892

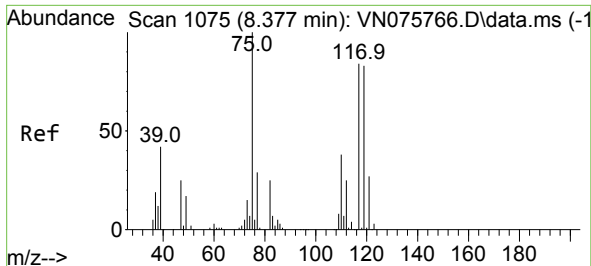
Ion Ratio Lower Upper

113 100

111 104.3 83.4 125.2

192 20.2 16.1 24.1





#36

1,1-Dichloropropene

Concen: 5.626 ug/l

RT: 8.230 min Scan# 1

Delta R.T. -0.147 min

Lab File: VN076245.D

Acq: 13 Jan 2023 13:50

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TCLP-VOC-1

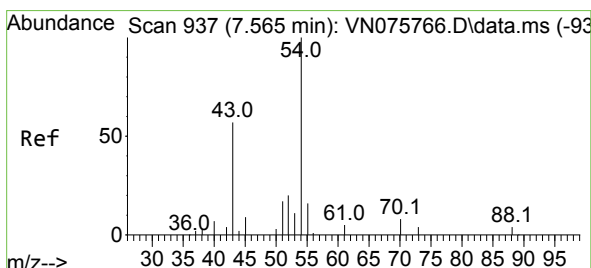
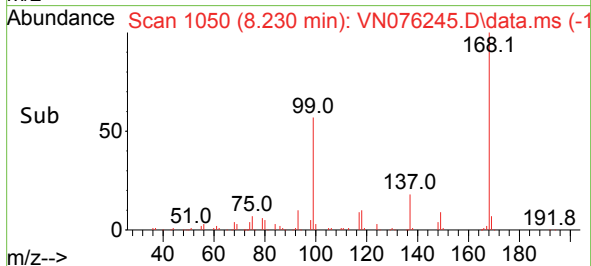
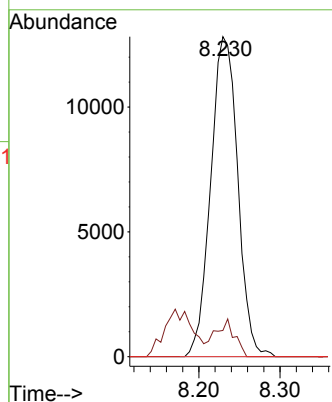
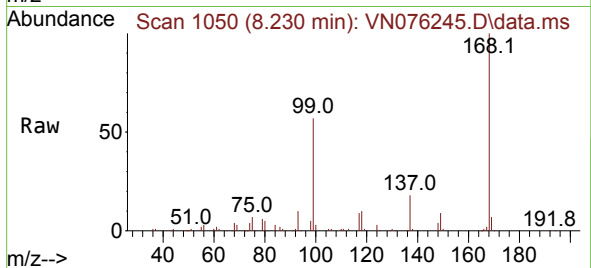
Tgt Ion: 75 Resp: 29653

Ion Ratio Lower Upper

75 100

110 8.6 18.8 56.4#

77 0.0 24.1 36.1#



#37

Ethyl Acetate

Concen: 7.815 ug/l

RT: 7.583 min Scan# 940

Delta R.T. 0.018 min

Lab File: VN076245.D

Acq: 13 Jan 2023 13:50

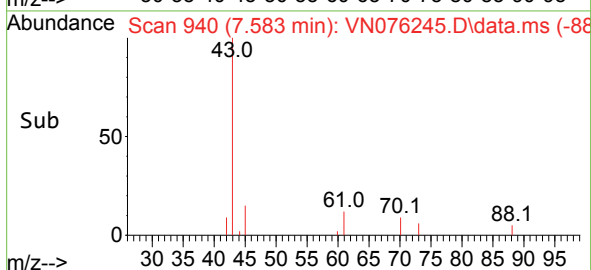
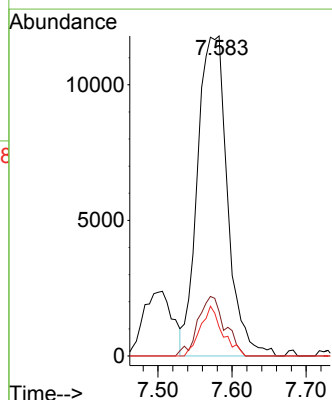
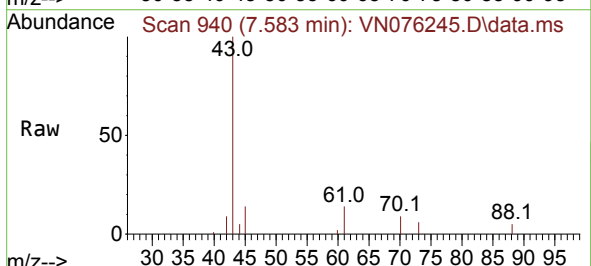
Tgt Ion: 43 Resp: 33086

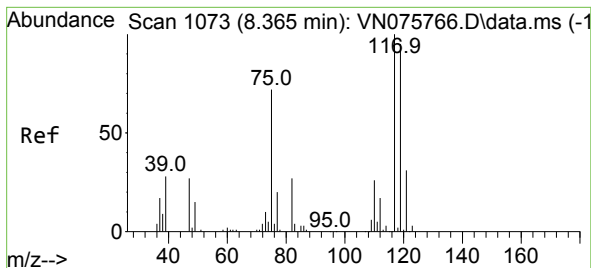
Ion Ratio Lower Upper

43 100

61 16.8 13.0 19.4

70 11.5 9.4 14.0





#38

Carbon Tetrachloride

Concen: 6.382 ug/l

RT: 8.235 min Scan# 110

Delta R.T. -0.129 min

Lab File: VN076245.D

Acq: 13 Jan 2023 13:50

Instrument :

MSVOA_N

ClientSampleId :

TCLP-VOC-1

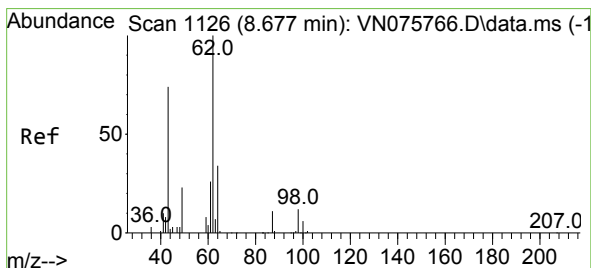
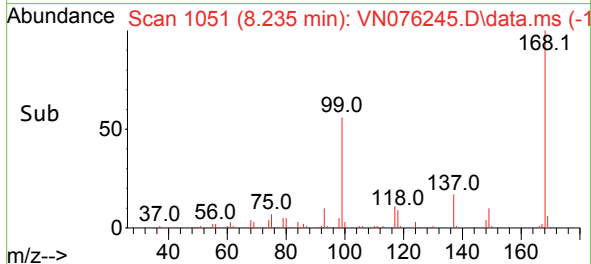
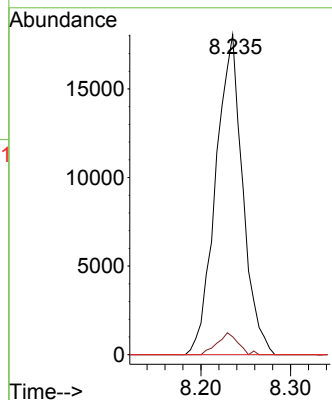
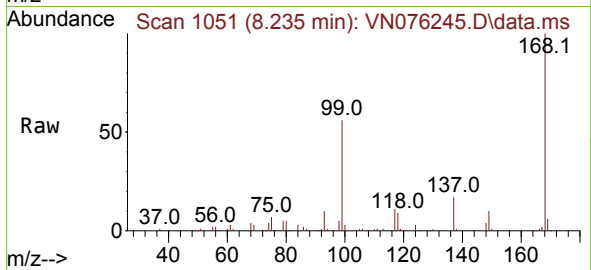
Tgt Ion:117 Resp: 37651

Ion Ratio Lower Upper

117 100

119 5.6 76.1 114.1#

121 0.0 24.5 36.7#



#42

1,2-Dichloroethane

Concen: 0.316 ug/l

RT: 8.700 min Scan# 1130

Delta R.T. 0.023 min

Lab File: VN076245.D

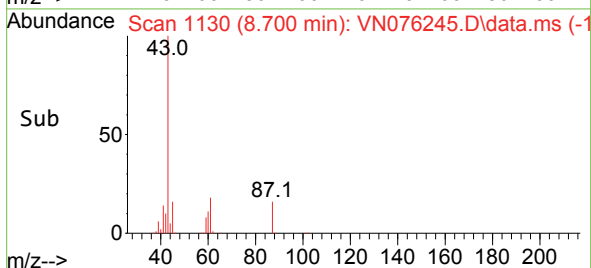
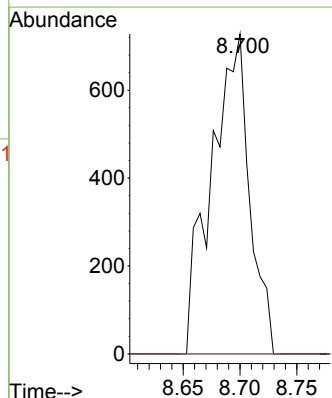
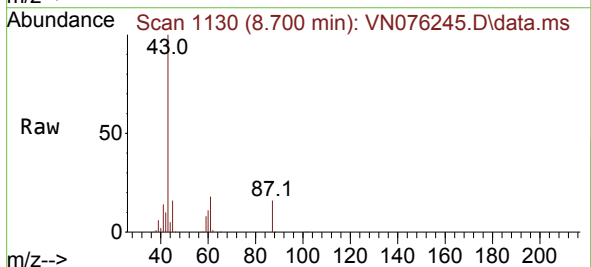
Acq: 13 Jan 2023 13:50

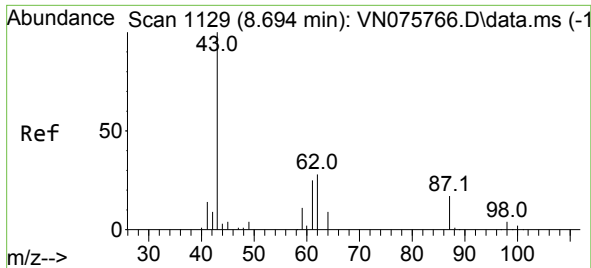
Tgt Ion: 62 Resp: 1707

Ion Ratio Lower Upper

62 100

98 0.0 0.0 20.8

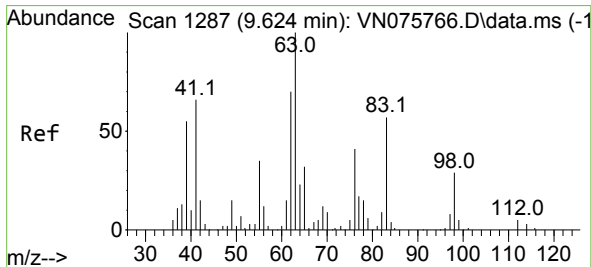
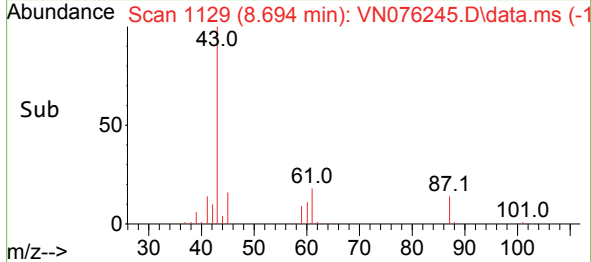
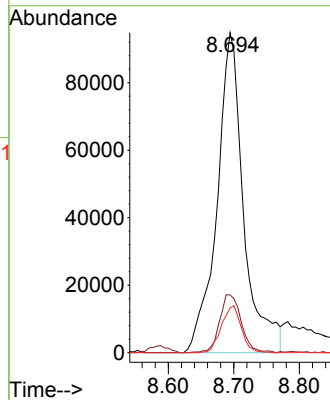
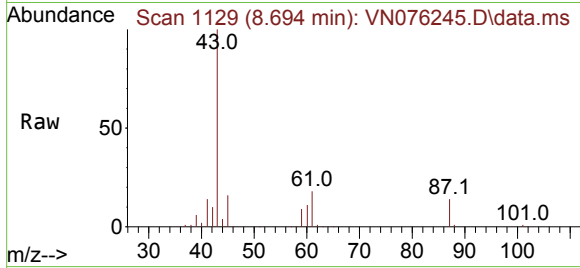




#43
Isopropyl Acetate
Concen: 38.356 ug/l
RT: 8.694 min Scan# 1129
Delta R.T. -0.000 min
Lab File: VN076245.D
Acq: 13 Jan 2023 13:50

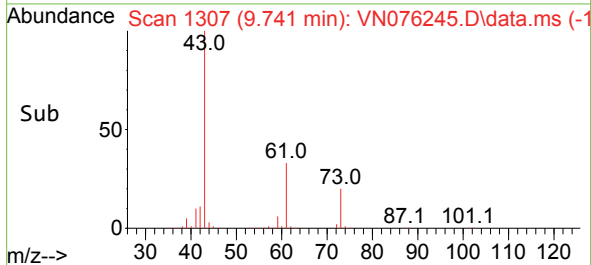
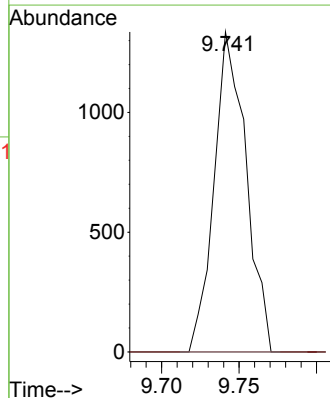
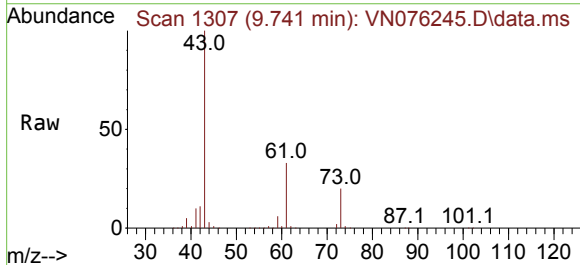
Instrument :
MSVOA_N
ClientSampleId :
TCLP-VOC-1

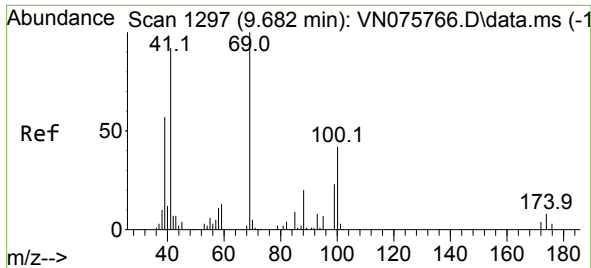
Tgt Ion: 43 Resp: 267875
Ion Ratio Lower Upper
43 100
61 14.7 24.2 36.4#
87 10.9 13.3 19.9#



#45
1,2-Dichloropropane
Concen: 0.484 ug/l
RT: 9.741 min Scan# 1307
Delta R.T. 0.118 min
Lab File: VN076245.D
Acq: 13 Jan 2023 13:50

Tgt Ion: 63 Resp: 1916
Ion Ratio Lower Upper
63 100
65 0.0 25.7 38.5#

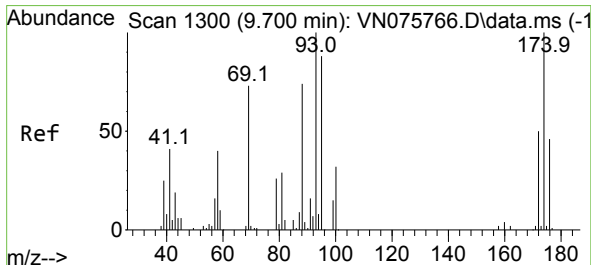
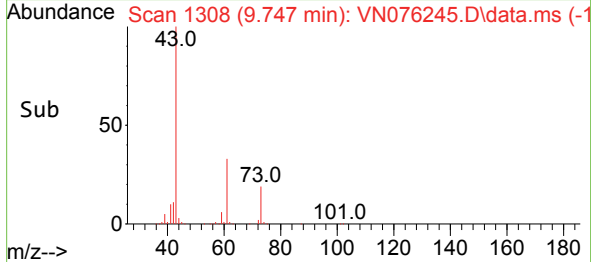
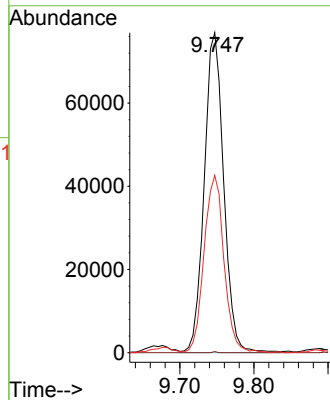
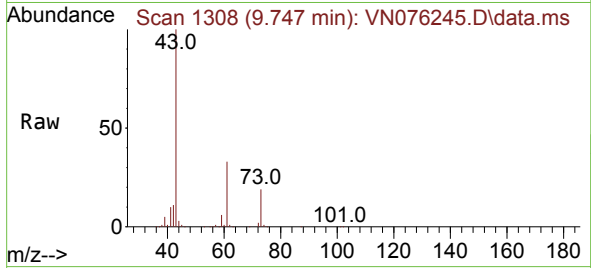




#48
Methyl methacrylate
Concen: 44.609 ug/l
RT: 9.747 min Scan# 11
Delta R.T. 0.065 min
Lab File: VN076245.D
Acq: 13 Jan 2023 13:50

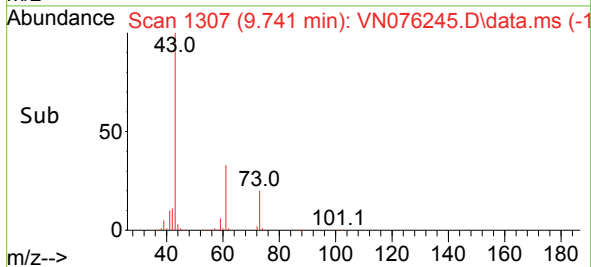
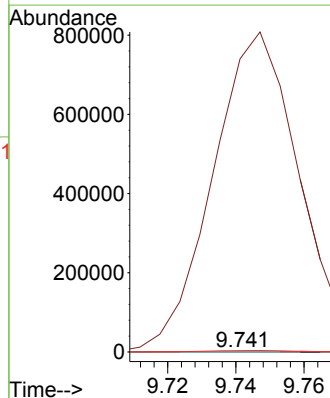
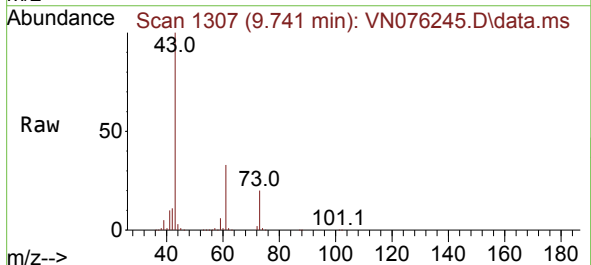
Instrument :
MSVOA_N
ClientSampleId :
TCLP-VOC-1

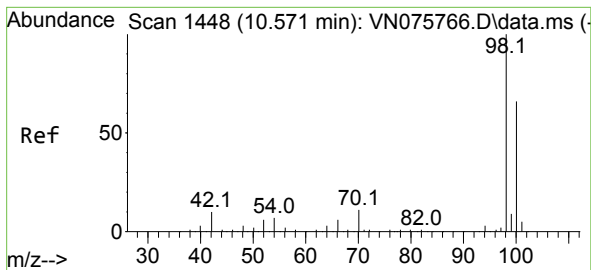
Tgt Ion: 41 Resp: 140317
Ion Ratio Lower Upper
41 100
69 0.1 81.9 122.9#
39 56.8 51.6 77.4



#49
1,4-Dioxane
Concen: 1.810 ug/l
RT: 9.741 min Scan# 1307
Delta R.T. 0.041 min
Lab File: VN076245.D
Acq: 13 Jan 2023 13:50

Tgt Ion: 88 Resp: 140
Ion Ratio Lower Upper
88 100
43 1030327.1 17.1 25.7#
58 4800.7 47.8 71.8#

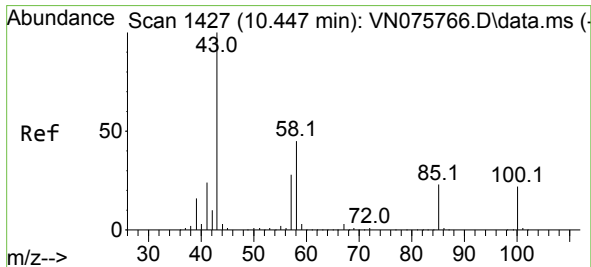
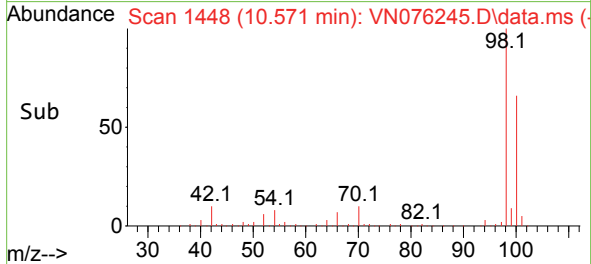
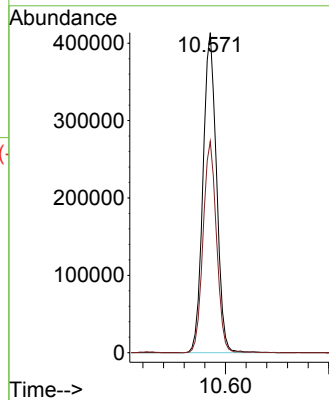
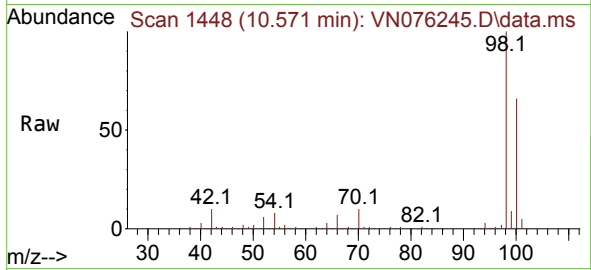




#50
Toluene-d8
Concen: 50.430 ug/l
RT: 10.571 min Scan# 1448
Delta R.T. -0.000 min
Lab File: VN076245.D
Acq: 13 Jan 2023 13:50

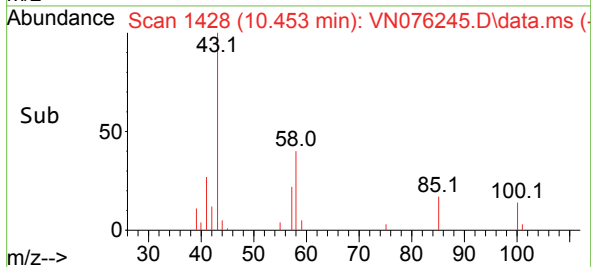
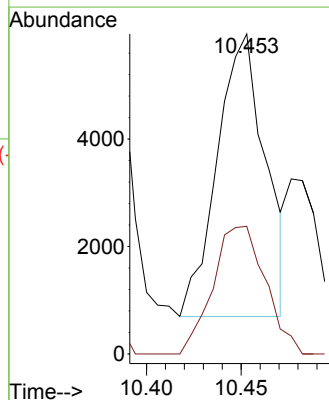
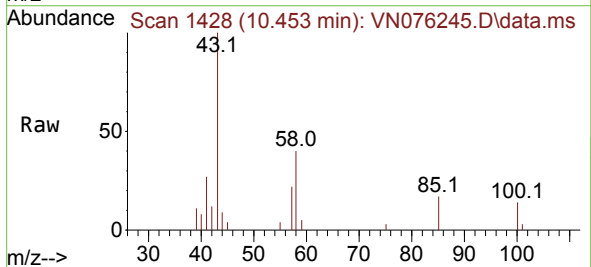
Instrument :
MSVOA_N
ClientSampleId :
TCLP-VOC-1

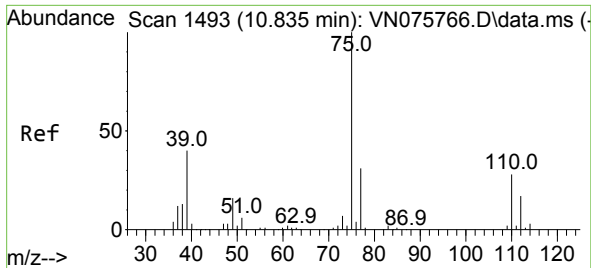
Tgt Ion: 98 Resp: 748126
Ion Ratio Lower Upper
98 100
100 65.9 52.1 78.1



#51
4-Methyl-2-Pentanone
Concen: 2.199 ug/l
RT: 10.453 min Scan# 1428
Delta R.T. 0.006 min
Lab File: VN076245.D
Acq: 13 Jan 2023 13:50

Tgt Ion: 43 Resp: 9286
Ion Ratio Lower Upper
43 100
58 49.3 35.5 53.3

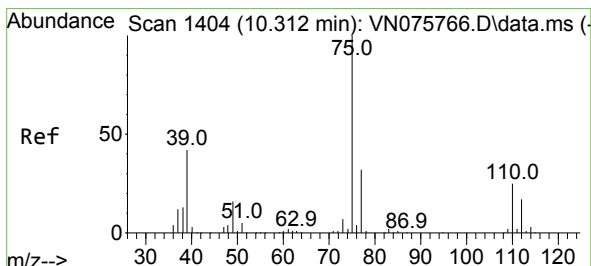
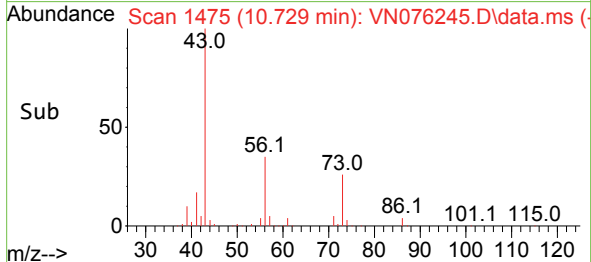
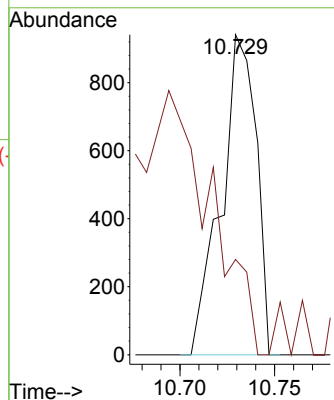
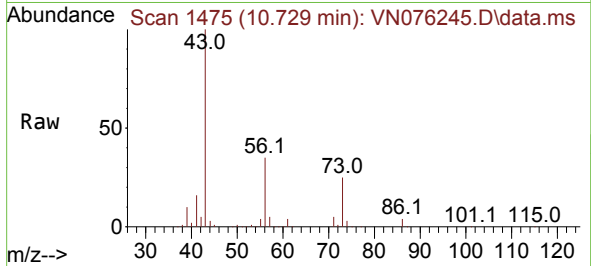




#53
 t-1,3-Dichloropropene
 Concen: 0.215 ug/l
 RT: 10.729 min Scan# 1412
 Delta R.T. -0.106 min
 Lab File: VN076245.D
 Acq: 13 Jan 2023 13:50

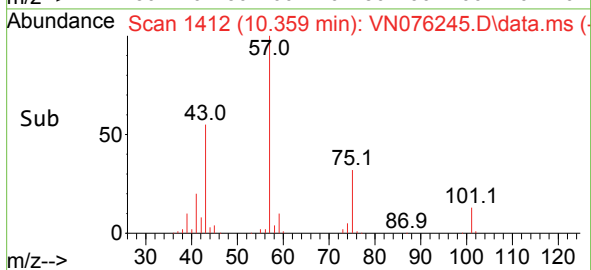
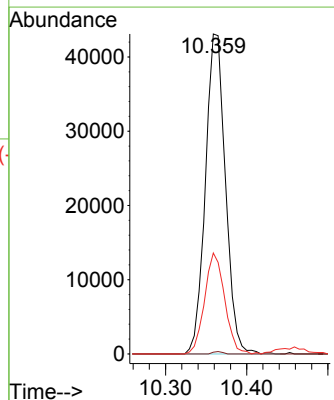
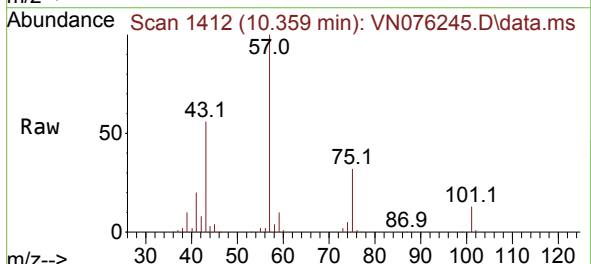
Instrument :
 MSVOA_N
 ClientSampleId :
 TCLP-VOC-1

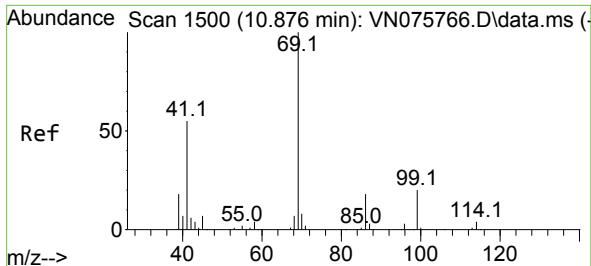
Tgt Ion: 75 Resp: 1210
 Ion Ratio Lower Upper
 75 100
 77 13.3 24.9 37.3#



#54
 cis-1,3-Dichloropropene
 Concen: 11.947 ug/l
 RT: 10.359 min Scan# 1412
 Delta R.T. 0.047 min
 Lab File: VN076245.D
 Acq: 13 Jan 2023 13:50

Tgt Ion: 75 Resp: 73907
 Ion Ratio Lower Upper
 75 100
 77 0.5 25.8 38.8#
 39 31.6 33.4 50.2#

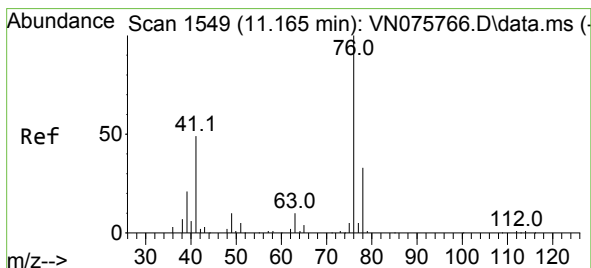
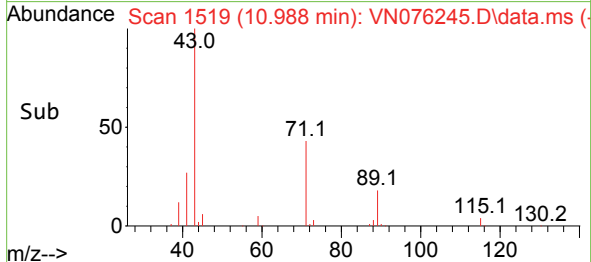
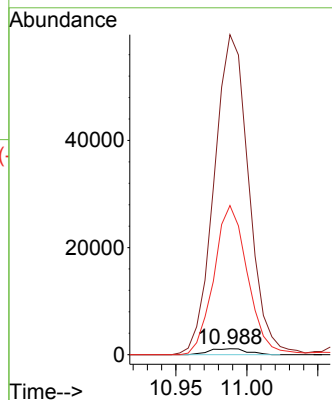
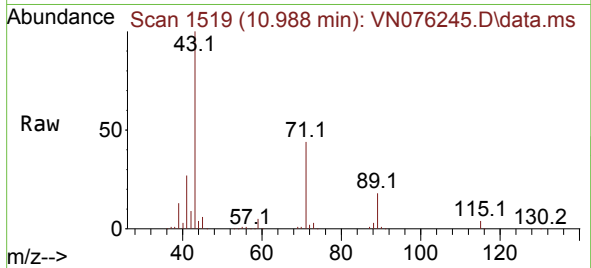




#56
Ethyl methacrylate
Concen: 0.375 ug/l
RT: 10.988 min Scan# 1519
Delta R.T. 0.112 min
Lab File: VN076245.D
Acq: 13 Jan 2023 13:50

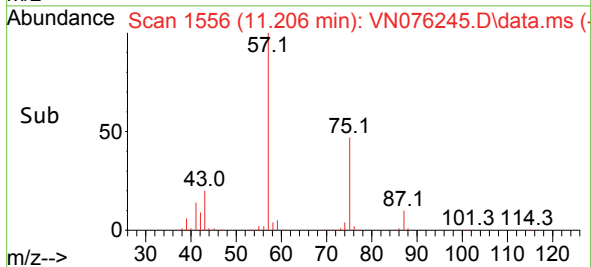
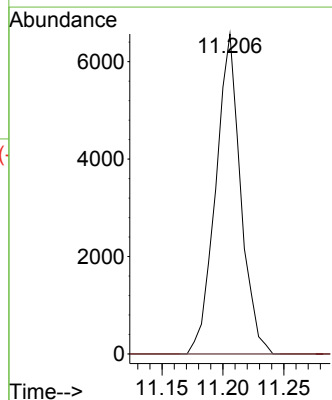
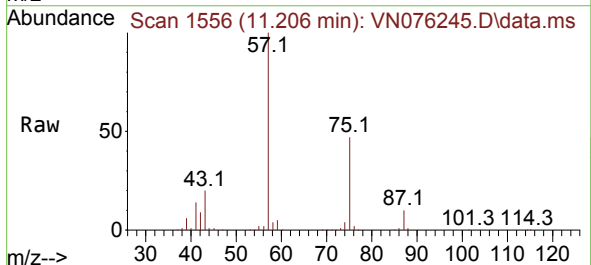
Instrument :
MSVOA_N
ClientSampleId :
TCLP-VOC-1

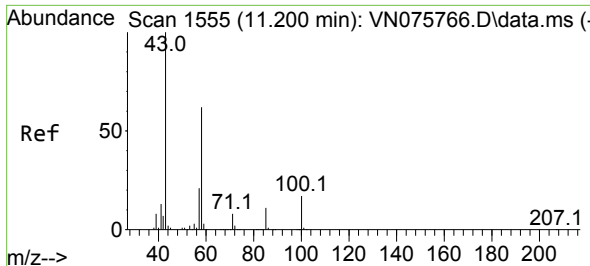
Tgt Ion: 69 Resp: 2073
Ion Ratio Lower Upper
69 100
41 4887.7 44.2 66.4#
39 2224.6 26.4 39.6#



#57
1,3-Dichloropropane
Concen: 1.375 ug/l
RT: 11.206 min Scan# 1556
Delta R.T. 0.041 min
Lab File: VN076245.D
Acq: 13 Jan 2023 13:50

Tgt Ion: 76 Resp: 9377
Ion Ratio Lower Upper
76 100
78 0.0 26.2 39.2#

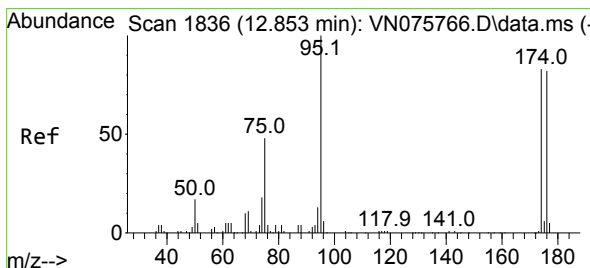
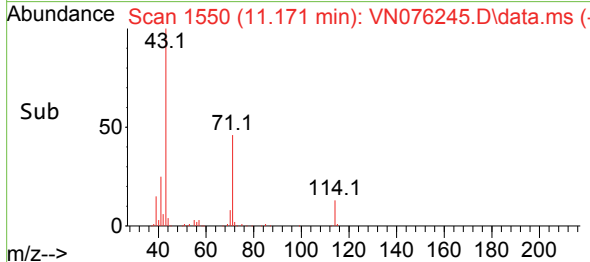
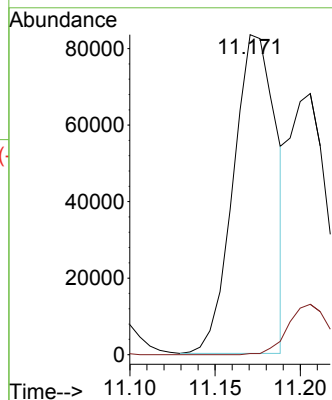
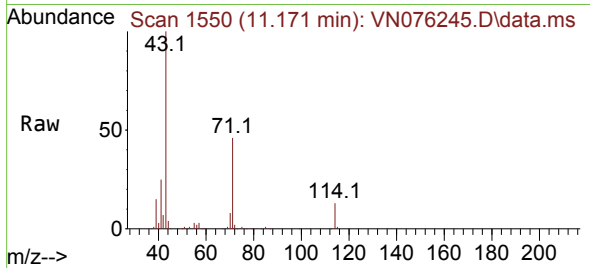




#59
2-Hexanone
Concen: 47.257 ug/l
RT: 11.171 min Scan# 1150
Delta R.T. -0.029 min
Lab File: VN076245.D
Acq: 13 Jan 2023 13:50

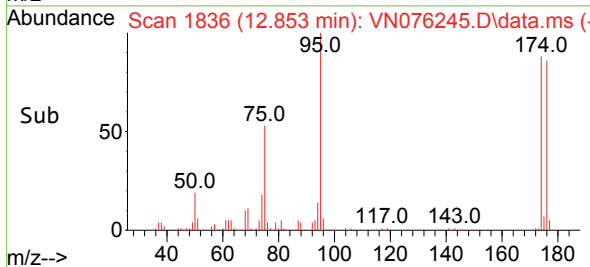
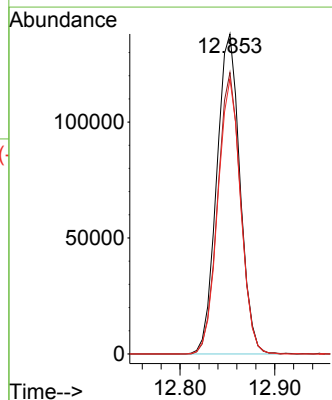
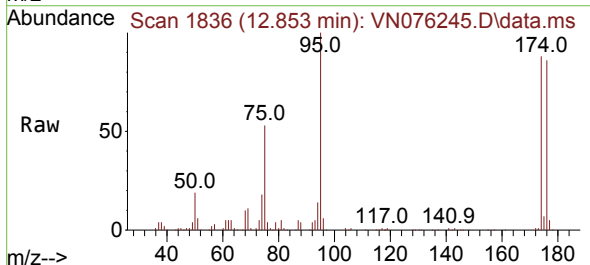
Instrument :
MSVOA_N
ClientSampleId :
TCLP-VOC-1

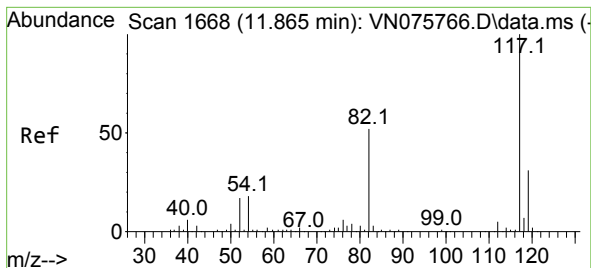
Tgt Ion: 43 Resp: 145556
Ion Ratio Lower Upper
43 100
58 0.0 30.6 92.0#



#62
4-Bromofluorobenzene
Concen: 47.945 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. -0.000 min
Lab File: VN076245.D
Acq: 13 Jan 2023 13:50

Tgt Ion: 95 Resp: 235578
Ion Ratio Lower Upper
95 100
174 86.4 0.0 171.6
176 84.3 0.0 169.2

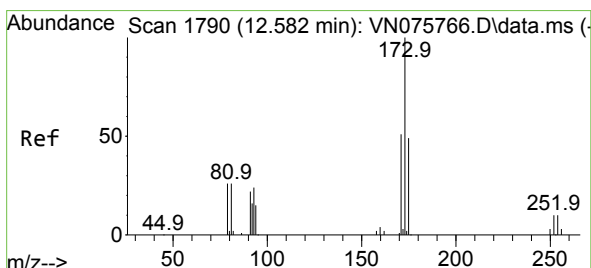
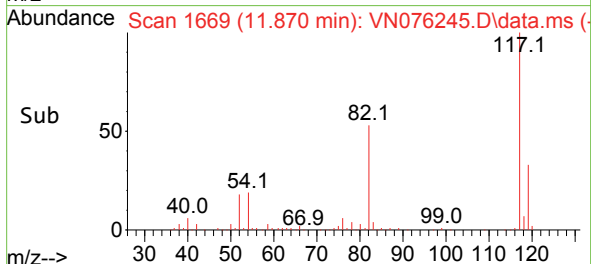
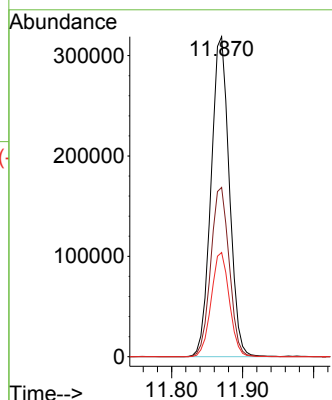
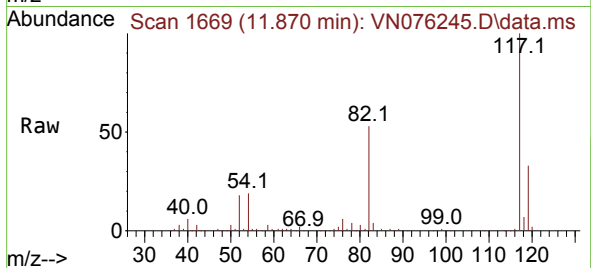




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 117
Delta R.T. 0.006 min
Lab File: VN076245.D
Acq: 13 Jan 2023 13:50

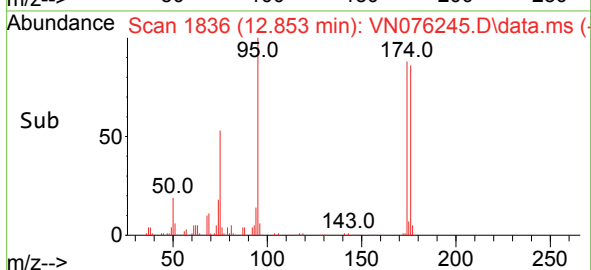
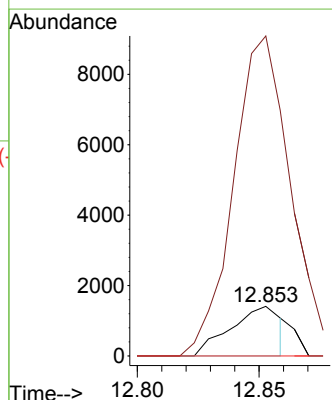
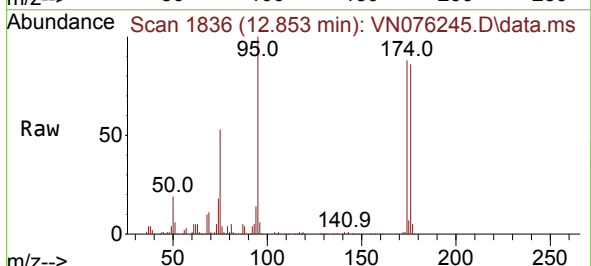
Instrument :
MSVOA_N
ClientSampleId :
TCLP-VOC-1

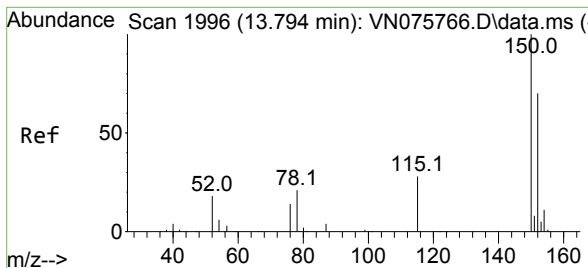
Tgt Ion:117 Resp: 567821
Ion Ratio Lower Upper
117 100
82 52.9 41.3 61.9
119 32.6 24.6 37.0



#71
Bromoform
Concen: 0.643 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.270 min
Lab File: VN076245.D
Acq: 13 Jan 2023 13:50

Tgt Ion:173 Resp: 2019
Ion Ratio Lower Upper
173 100
175 605.2 24.3 72.8#
254 0.0 0.0 0.0

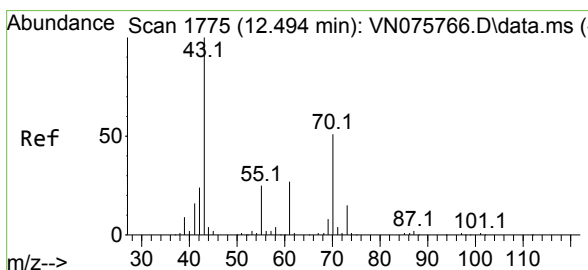
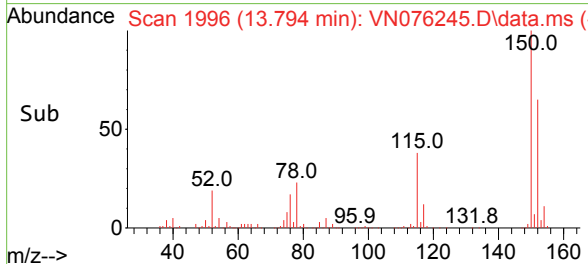
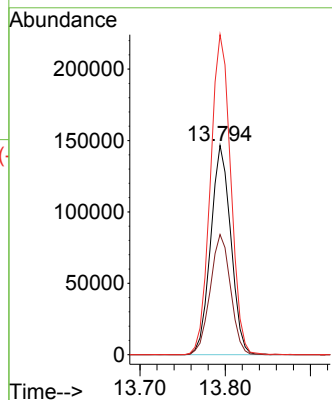
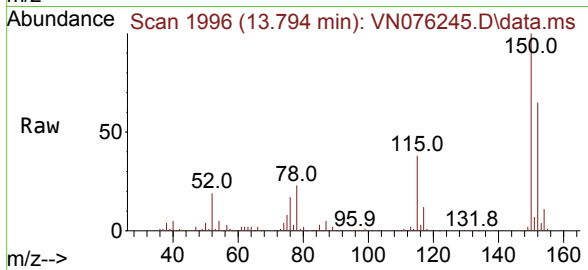




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.794 min Scan# 1996
 Delta R.T. -0.000 min
 Lab File: VN076245.D
 Acq: 13 Jan 2023 13:50

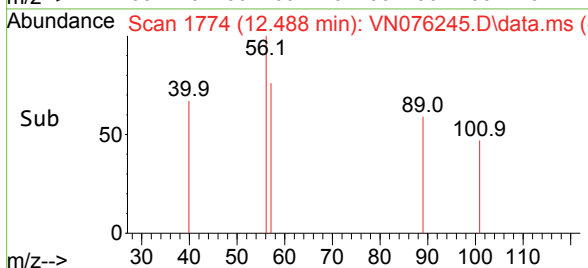
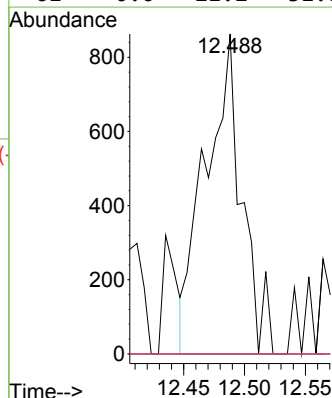
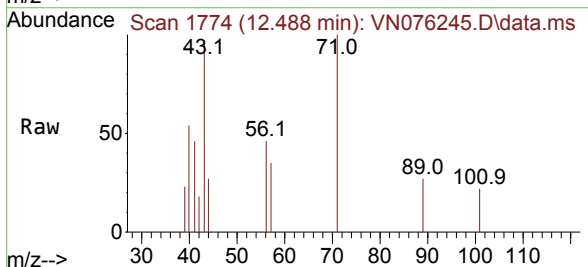
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 MSVOA_N
 ClientSampleId :
 TCLP-VOC-1

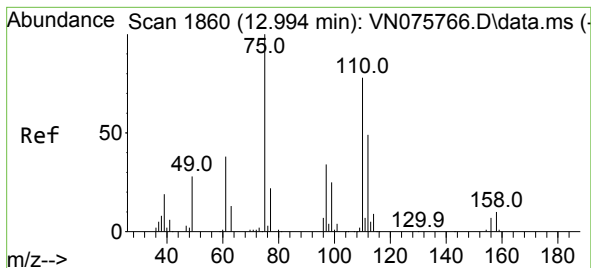
Tgt Ion:152 Resp: 240265
 Ion Ratio Lower Upper
 152 100
 115 58.1 29.1 87.4
 150 154.8 0.0 347.0



#74
 N-ethyl acetate
 Concen: 0.350 ug/l
 RT: 12.488 min Scan# 1774
 Delta R.T. -0.006 min
 Lab File: VN076245.D
 Acq: 13 Jan 2023 13:50

Tgt Ion: 43 Resp: 1783
 Ion Ratio Lower Upper
 43 100
 70 0.0 41.4 62.0#
 55 0.0 21.3 31.9#
 61 0.0 21.2 31.8#





#76

1,2,3-Trichloropropane

Concen: 25.224 ug/l

RT: 12.853 min Scan# 1836

Delta R.T. -0.141 min

Lab File: VN076245.D

Acq: 13 Jan 2023 13:50

Instrument :

MSVOA_N

ClientSampleId :

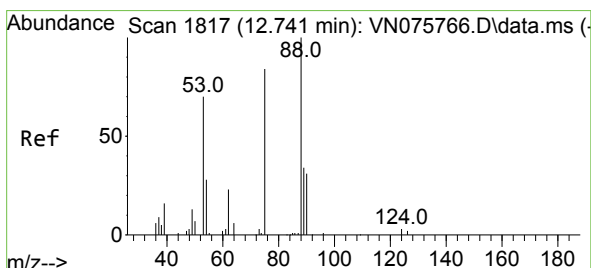
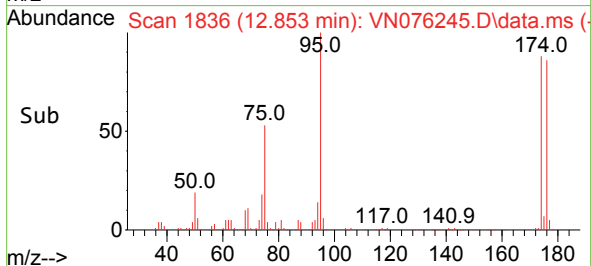
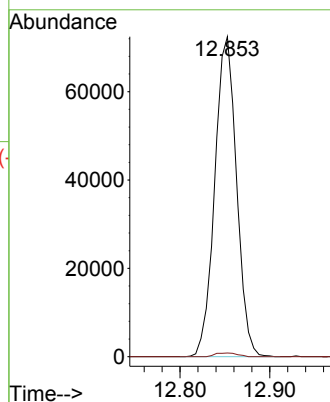
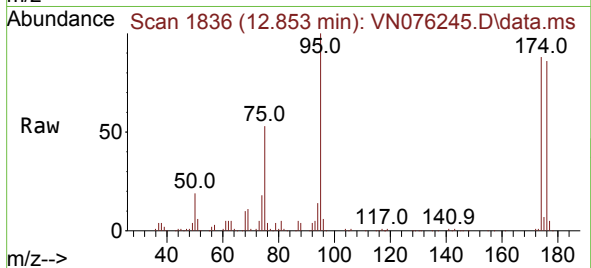
TCLP-VOC-1

Tgt Ion: 75 Resp: 122162

Ion Ratio Lower Upper

75 100

77 1.2 82.6 247.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 90.792 ug/l

RT: 12.853 min Scan# 1836

Delta R.T. 0.112 min

Lab File: VN076245.D

Acq: 13 Jan 2023 13:50

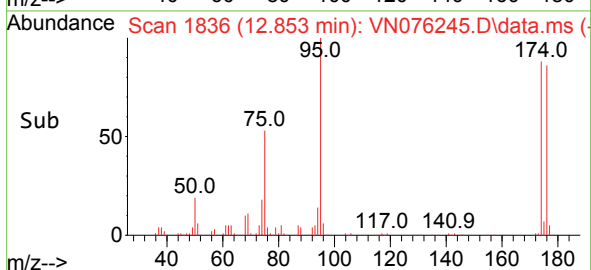
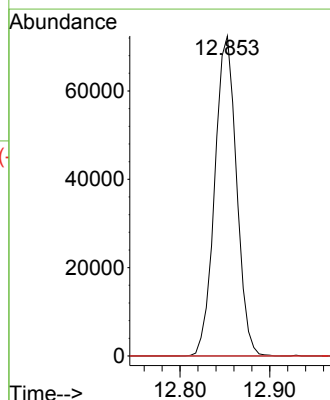
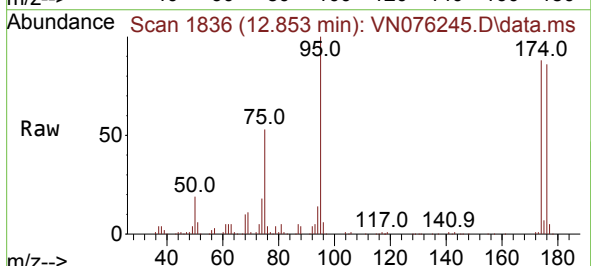
Tgt Ion: 75 Resp: 122162

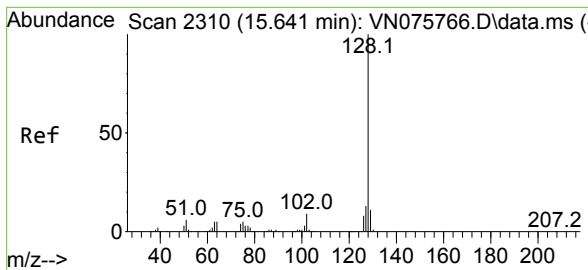
Ion Ratio Lower Upper

75 100

53 0.0 73.8 110.6#

89 0.0 39.5 59.3#





#95
 Naphthalene
 Concen: 2.301 ug/l
 RT: 15.647 min Scan# 211
 Delta R.T. 0.006 min
 Lab File: VN076245.D
 Acq: 13 Jan 2023 13:50

Instrument :
 MSVOA_N
 ClientSampleId :
 TCLP-VOC-1

Tgt Ion:128	Resp:	1692
Ion	Ratio	Lower Upper
128	100	
127	7.3	10.4 15.6#
129	0.0	8.7 13.1#

