

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122022\
 Data File : VN075899.D
 Acq On : 20 Dec 2022 15:23
 Operator : JC\MD
 Sample : N6148-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TCLP-VOC-3052

Quant Time: Dec 21 01:28:39 2022
 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)

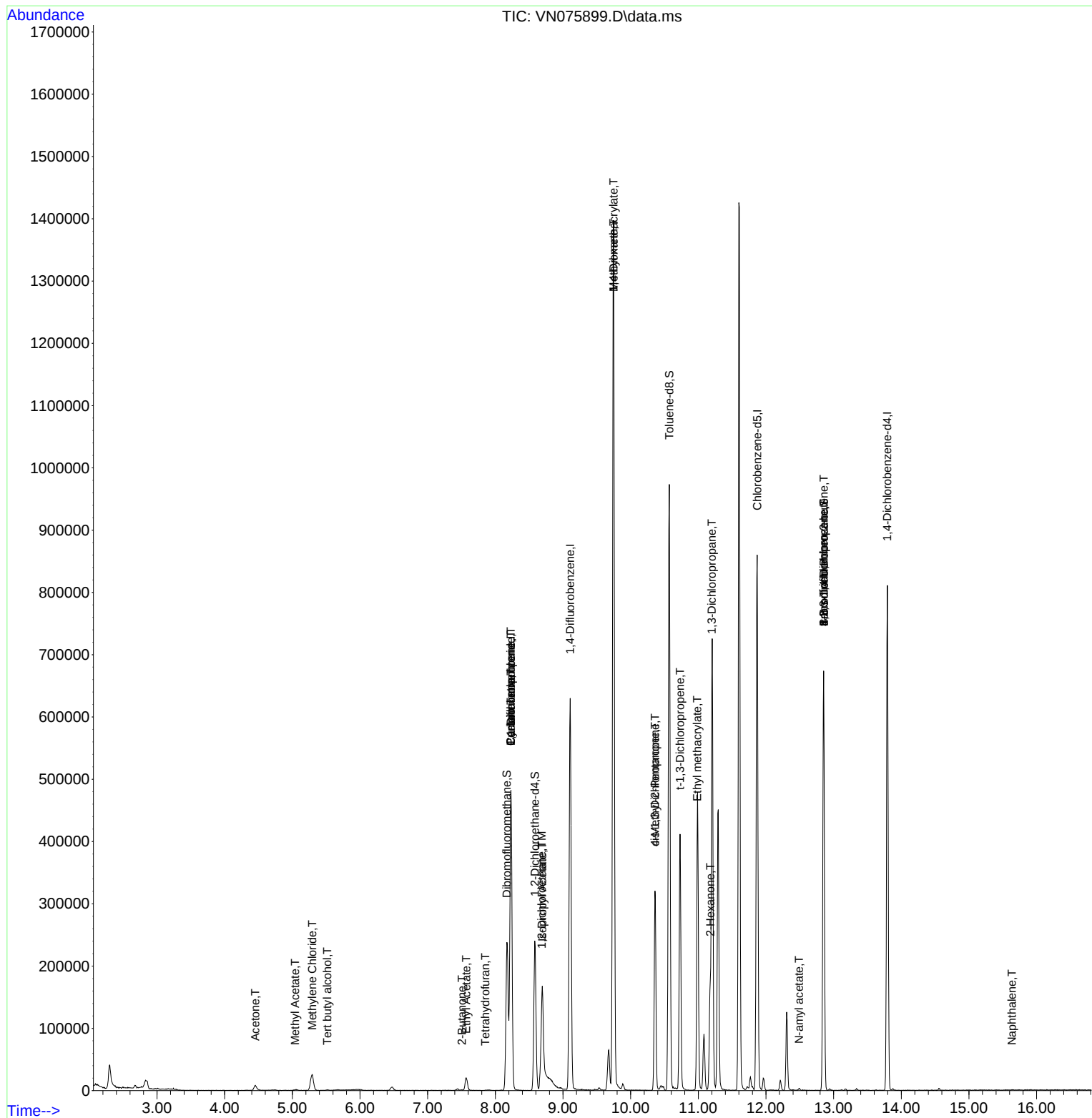
Internal Standards						
1) Pentafluorobenzene	8.230	168	378795	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	588295	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	525892	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	227019	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	190120	46.135	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	92.280%
35) Dibromofluoromethane	8.171	113	171804	47.157	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	94.320%
50) Toluene-d8	10.571	98	686057	50.365	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	100.740%
62) 4-Bromofluorobenzene	12.853	95	221737	49.148	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	98.300%
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.518	59	555	0.952	ug/l #	72
16) Acetone	4.453	43	14884	10.478	ug/l	94
18) Methyl Acetate	5.042	43	2834	0.675	ug/l #	89
20) Methylene Chloride	5.294	84	21406	5.057	ug/l #	91
25) 2-Butanone	7.506	43	1256	0.631	ug/l	99
29) Tetrahydrofuran	7.853	42	411	0.330	ug/l #	35
31) Cyclohexane	8.230	56	7134	1.209	ug/l #	13
36) 1,1-Dichloropropene	8.230	75	25450	5.259	ug/l #	50
37) Ethyl Acetate	7.571	43	30475	7.839	ug/l	99
38) Carbon Tetrachloride	8.230	117	37910	6.999	ug/l #	16
42) 1,2-Dichloroethane	8.688	62	1369	0.276	ug/l #	72
43) Isopropyl Acetate	8.694	43	217368	33.897	ug/l #	77
48) Methyl methacrylate	9.747	41	122288	42.341	ug/l #	34
49) 1,4-Dioxane	9.747	88	123	1.732	ug/l #	1
51) 4-Methyl-2-Pentanone	10.359	43	113093	29.162	ug/l #	42
53) t-1,3-Dichloropropene	10.729	75	1312	0.254	ug/l #	44
54) cis-1,3-Dichloropropene	10.359	75	66746	11.750	ug/l #	63
56) Ethyl methacrylate	10.982	69	1479	0.292	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	8197	1.309	ug/l #	42
59) 2-Hexanone	11.176	43	119977	42.422	ug/l #	20
71) Bromoform	12.853	173	1689	0.581	ug/l #	1
74) N-amyl acetate	12.488	43	1660	0.345	ug/l #	40
76) 1,2,3-Trichloropropane	12.853	75	113110	24.717	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	113110	88.970	ug/l #	12
95) Naphthalene	15.635	128	1042	2.258	ug/l #	69

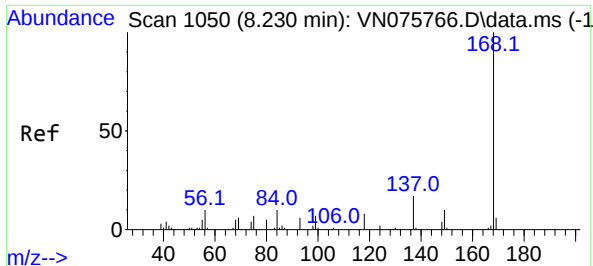
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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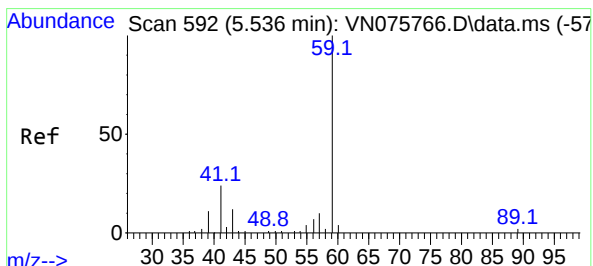
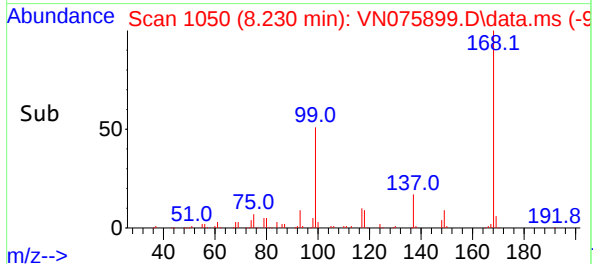
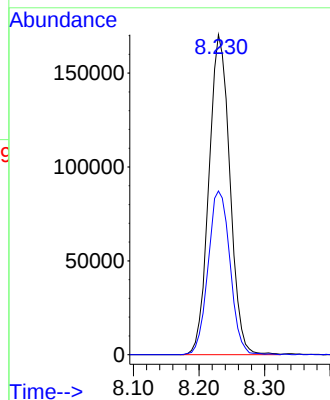
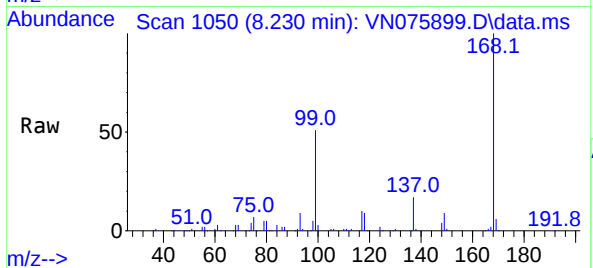




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1050
Delta R.T. -0.000 min
Lab File: VN075899.D
Acq: 20 Dec 2022 15:23

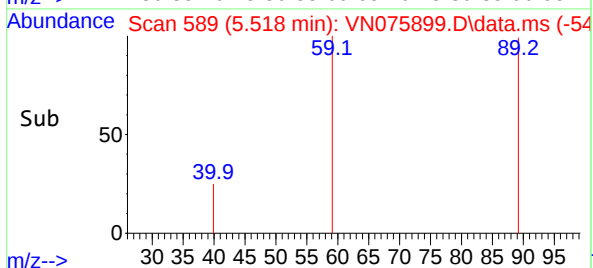
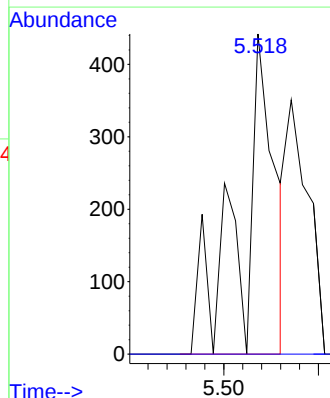
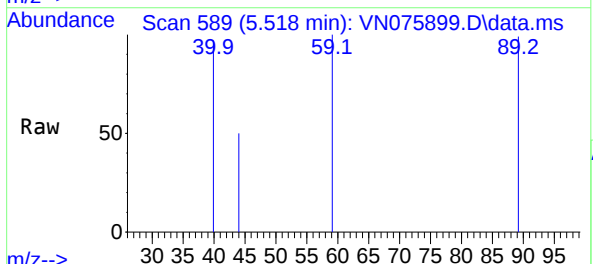
Instrument :
MSVOA_N
ClientSampleId :
TCLP-VOC-3052

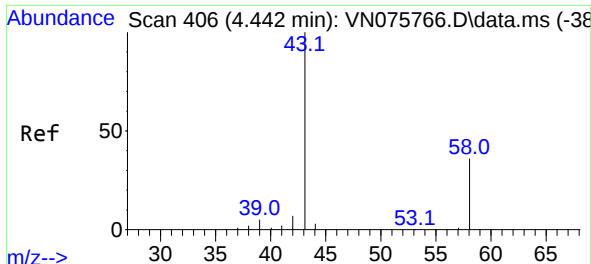
Tgt Ion:168 Resp: 378795
Ion Ratio Lower Upper
168 100
99 51.2 44.2 66.4



#11
Tert butyl alcohol
Concen: 0.952 ug/l
RT: 5.518 min Scan# 589
Delta R.T. -0.018 min
Lab File: VN075899.D
Acq: 20 Dec 2022 15:23

Tgt Ion: 59 Resp: 555
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

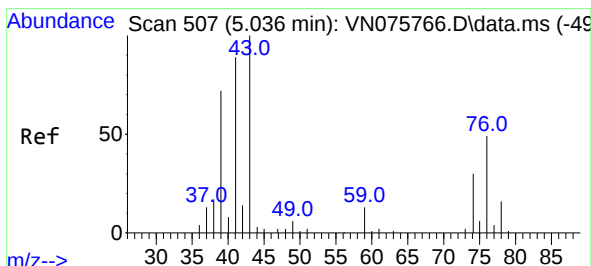
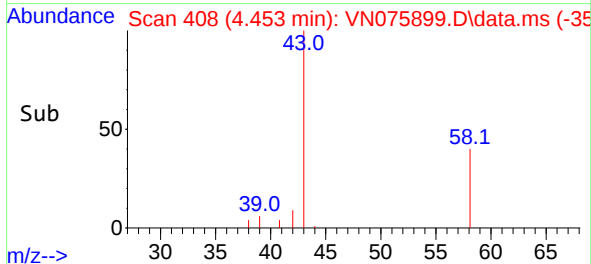
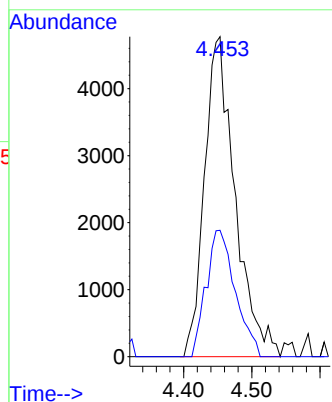
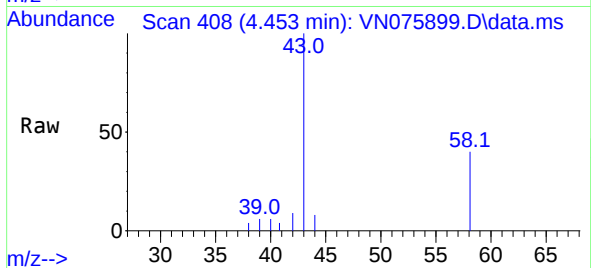




#16
Acetone
Concen: 10.478 ug/l
RT: 4.453 min Scan# 406
Delta R.T. 0.012 min
Lab File: VN075899.D
Acq: 20 Dec 2022 15:23

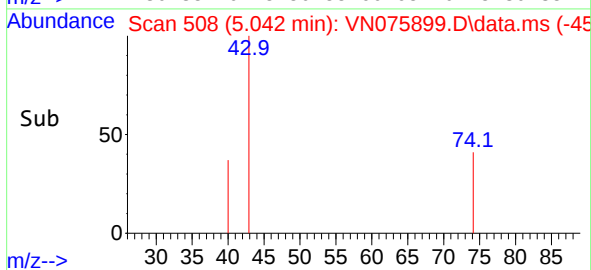
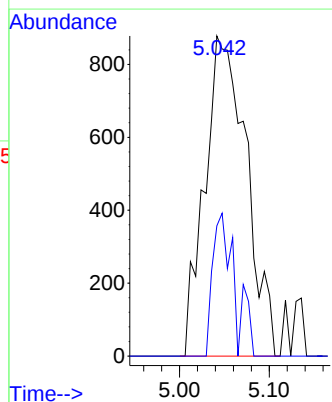
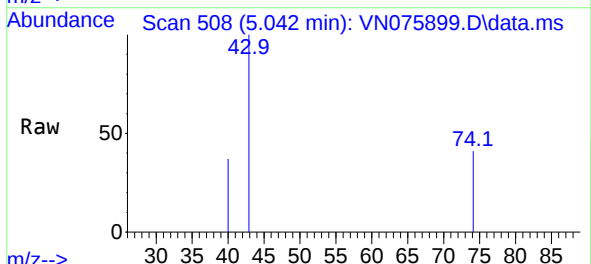
Instrument :
MSVOA_N
ClientSampleId :
TCLP-VOC-3052

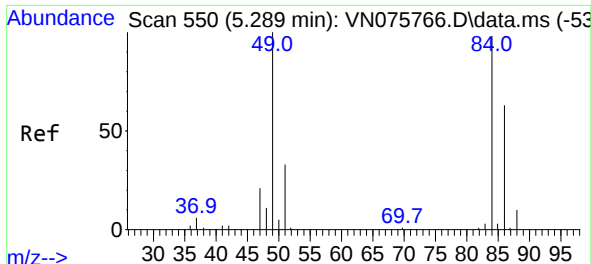
Tgt Ion: 43 Resp: 14884
Ion Ratio Lower Upper
43 100
58 39.5 28.6 43.0



#18
Methyl Acetate
Concen: 0.675 ug/l
RT: 5.042 min Scan# 508
Delta R.T. 0.006 min
Lab File: VN075899.D
Acq: 20 Dec 2022 15:23

Tgt Ion: 43 Resp: 2834
Ion Ratio Lower Upper
43 100
74 23.6 23.6 35.4#

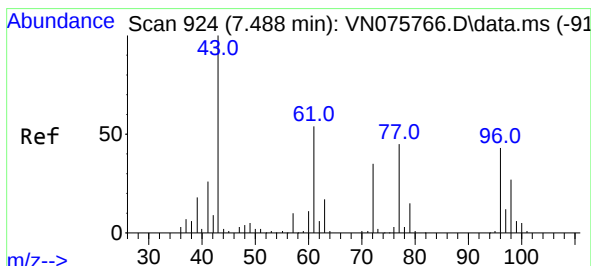
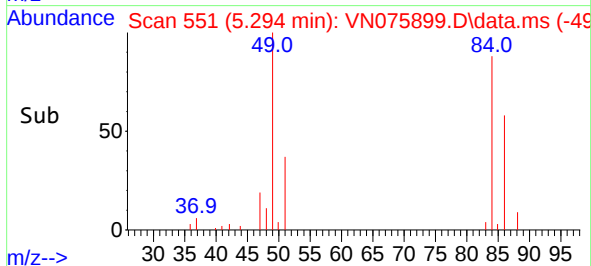
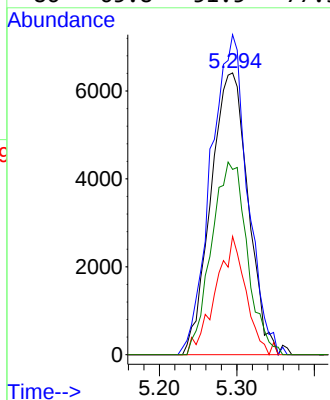
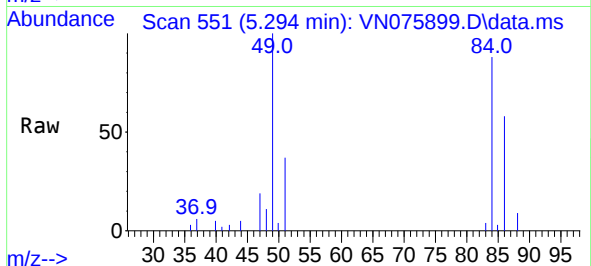




#20
Methylene Chloride
Concen: 5.057 ug/l
RT: 5.294 min Scan# 51
Delta R.T. 0.005 min
Lab File: VN075899.D
Acq: 20 Dec 2022 15:23

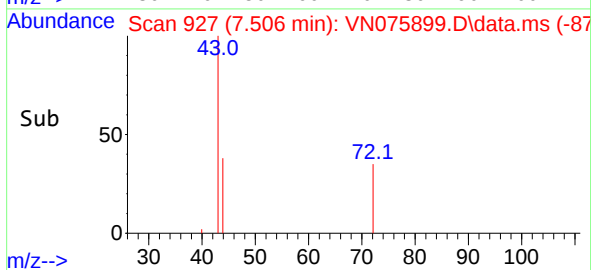
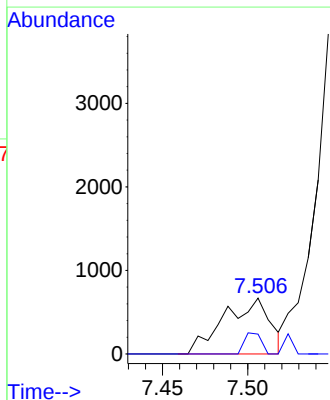
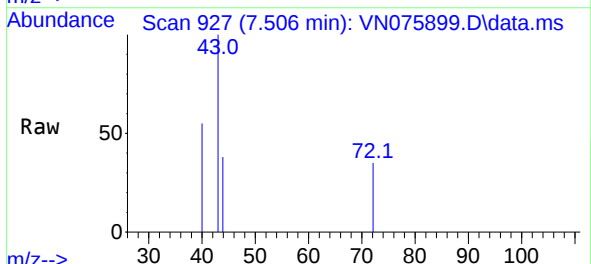
Instrument :
MSVOA_N
ClientSampleId :
TCLP-VOC-3052

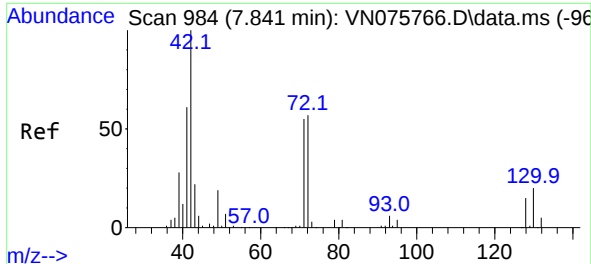
Tgt Ion: 84 Resp: 21406
Ion Ratio Lower Upper
84 100
49 113.6 81.8 122.6
51 42.0 26.7 40.1#
86 65.8 51.5 77.3



#25
2-Butanone
Concen: 0.631 ug/l
RT: 7.506 min Scan# 927
Delta R.T. 0.018 min
Lab File: VN075899.D
Acq: 20 Dec 2022 15:23

Tgt Ion: 43 Resp: 1256
Ion Ratio Lower Upper
43 100
72 35.4 28.0 42.0





#29

Tetrahydrofuran

Concen: 0.330 ug/l

RT: 7.853 min Scan# 91

Delta R.T. 0.012 min

Lab File: VN075899.D

Acq: 20 Dec 2022 15:23

Instrument :

MSVOA_N

ClientSampleId :

TCLP-VOC-3052

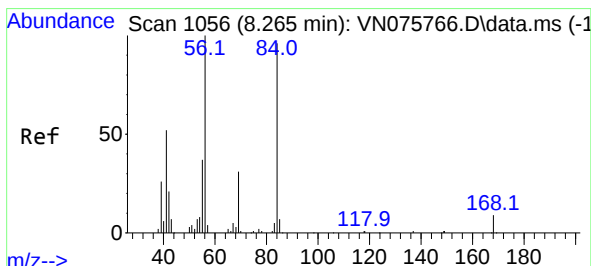
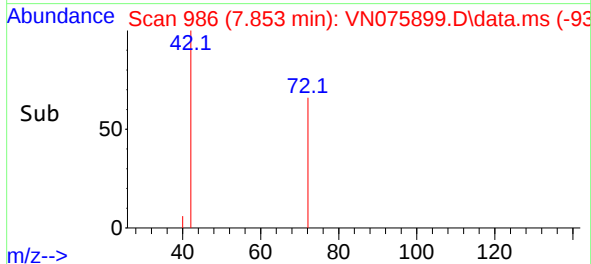
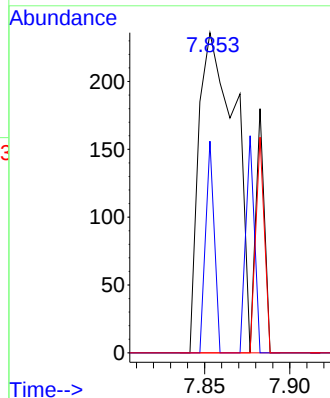
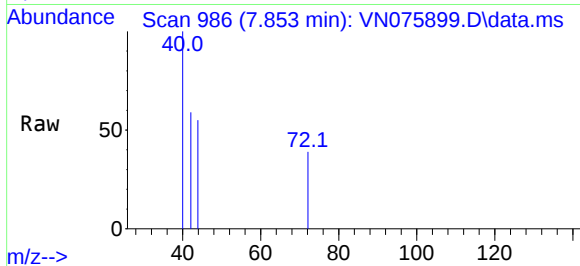
Tgt Ion: 42 Resp: 411

Ion Ratio Lower Upper

42 100

72 13.4 44.5 66.7#

71 0.0 41.0 61.6#



#31

Cyclohexane

Concen: 1.209 ug/l

RT: 8.230 min Scan# 1050

Delta R.T. -0.035 min

Lab File: VN075899.D

Acq: 20 Dec 2022 15:23

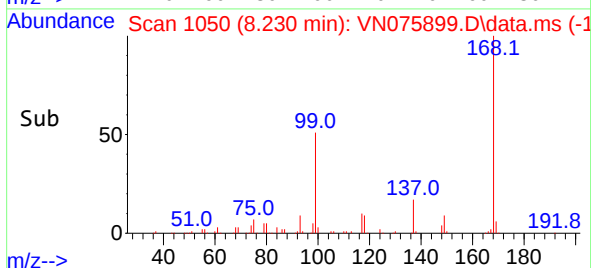
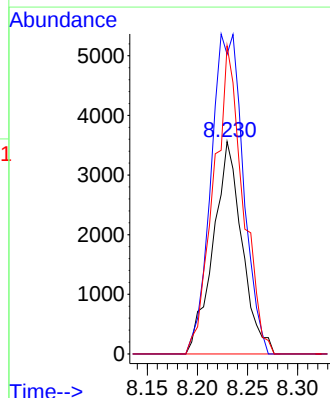
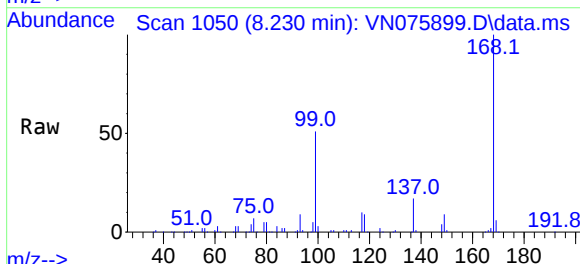
Tgt Ion: 56 Resp: 7134

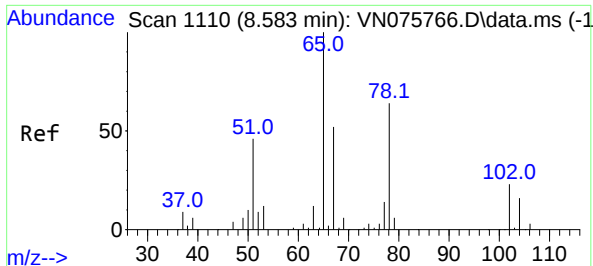
Ion Ratio Lower Upper

56 100

69 141.1 24.7 37.1#

84 145.1 76.5 114.7#





#33

1,2-Dichloroethane-d4

Concen: 46.135 ug/l

RT: 8.582 min Scan# 1110

Delta R.T. -0.000 min

Lab File: VN075899.D

Acq: 20 Dec 2022 15:23

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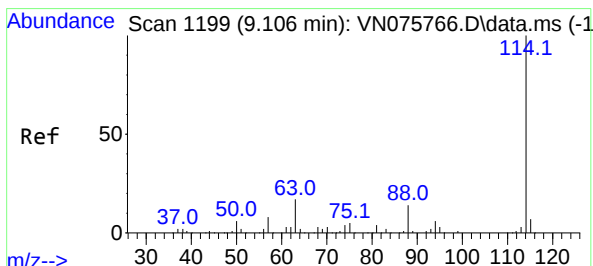
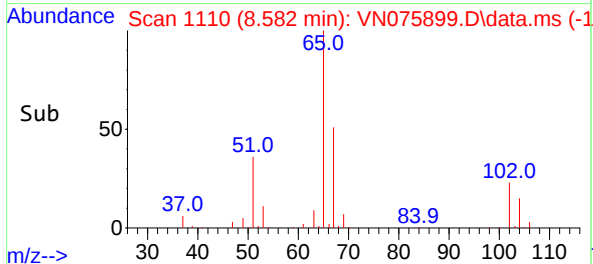
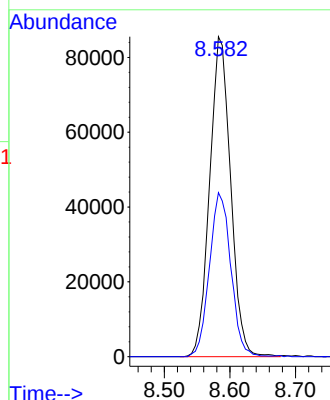
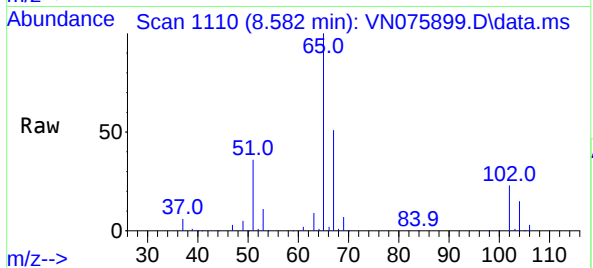
TCLP-VOC-3052

Tgt Ion: 65 Resp: 190120

Ion Ratio Lower Upper

65 100

67 52.2 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: VN075899.D

Acq: 20 Dec 2022 15:23

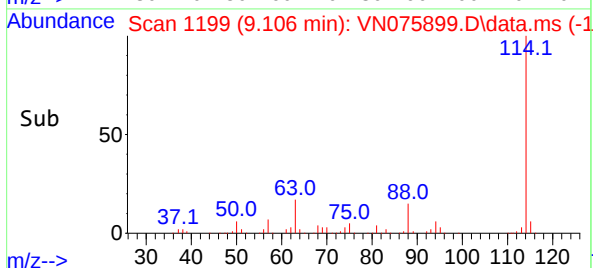
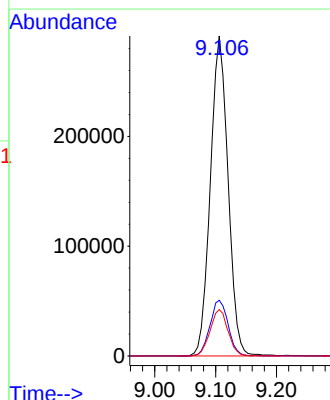
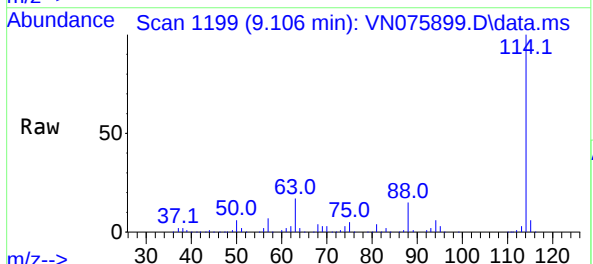
Tgt Ion: 114 Resp: 588295

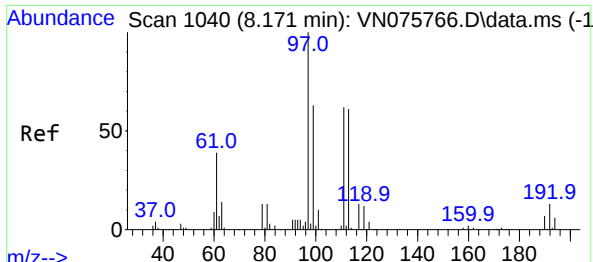
Ion Ratio Lower Upper

114 100

63 17.4 0.0 34.4

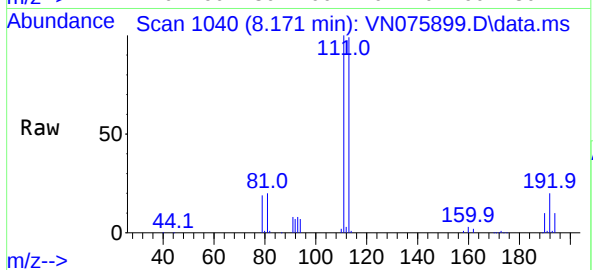
88 14.5 0.0 28.8



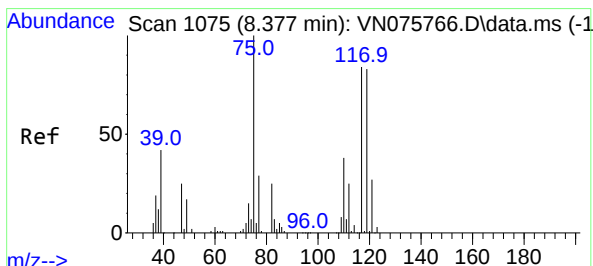
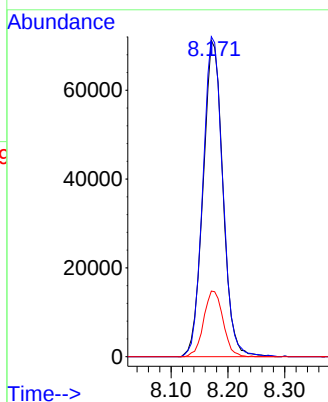
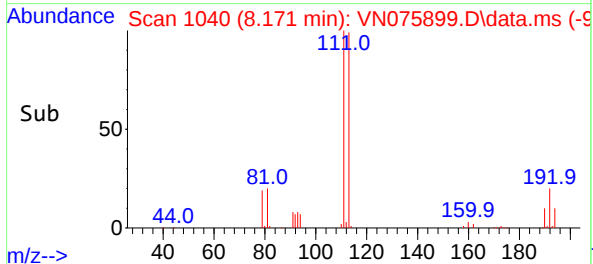


#35
Dibromofluoromethane
Concen: 47.157 ug/l
RT: 8.171 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VN075899.D
Acq: 20 Dec 2022 15:23

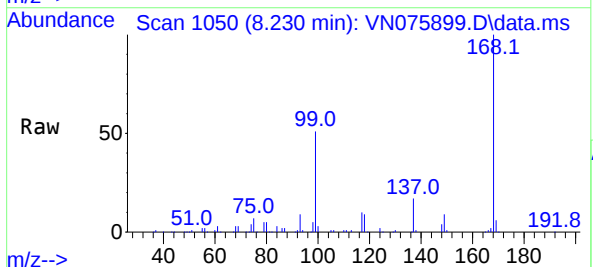
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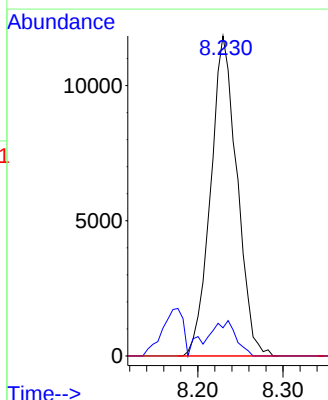
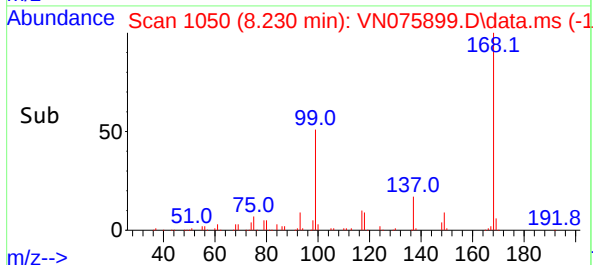
Tgt Ion:113 Resp: 171804
Ion Ratio Lower Upper
113 100
111 101.4 83.4 125.2
192 20.4 16.1 24.1

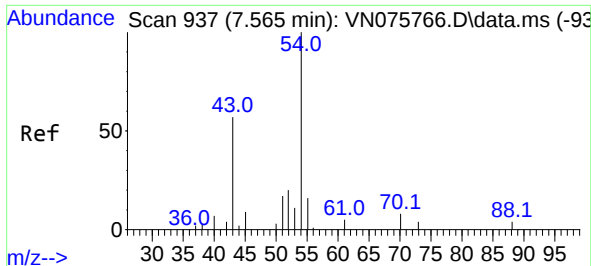


#36
1,1-Dichloropropene
Concen: 5.259 ug/l
RT: 8.230 min Scan# 1050
Delta R.T. -0.147 min
Lab File: VN075899.D
Acq: 20 Dec 2022 15:23



Tgt Ion: 75 Resp: 25450
Ion Ratio Lower Upper
75 100
110 10.0 18.8 56.4#
77 0.0 24.1 36.1#

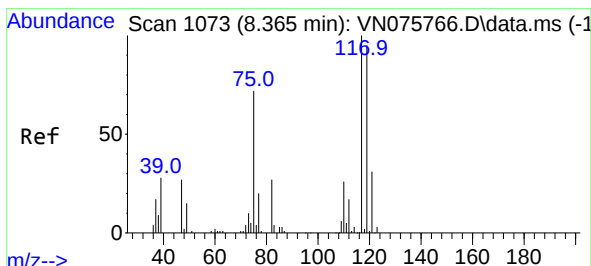
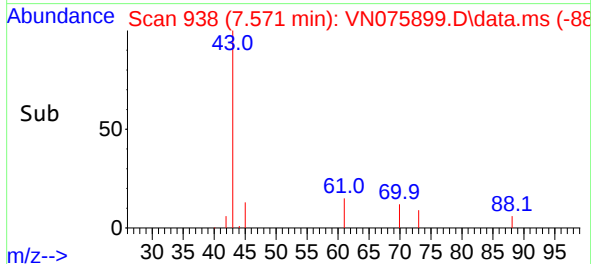
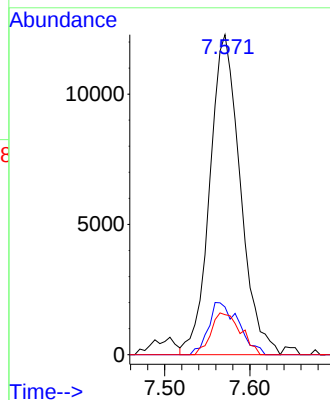
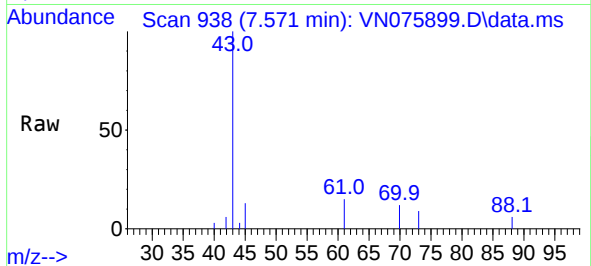




#37
Ethyl Acetate
Concen: 7.839 ug/l
RT: 7.571 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN075899.D
Acq: 20 Dec 2022 15:23

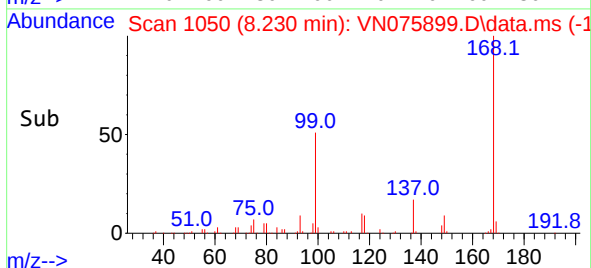
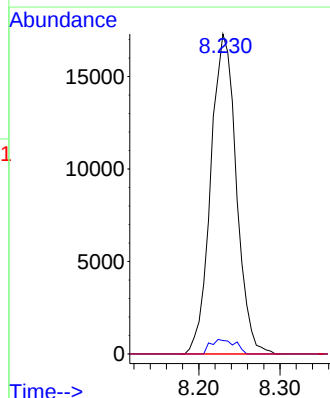
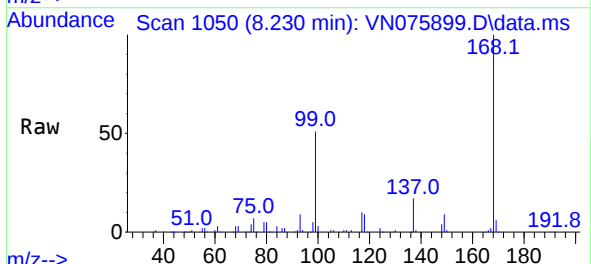
Instrument :
MSVOA_N
ClientSampleId :
TCLP-VOC-3052

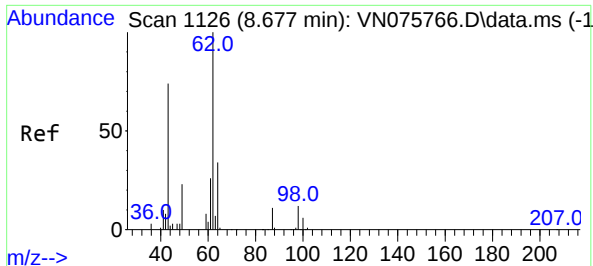
Tgt Ion: 43 Resp: 30475
Ion Ratio Lower Upper
43 100
61 16.2 13.0 19.4
70 12.7 9.4 14.0



#38
Carbon Tetrachloride
Concen: 6.999 ug/l
RT: 8.230 min Scan# 1050
Delta R.T. -0.135 min
Lab File: VN075899.D
Acq: 20 Dec 2022 15:23

Tgt Ion: 117 Resp: 37910
Ion Ratio Lower Upper
117 100
119 4.2 76.1 114.1#
121 0.0 24.5 36.7#

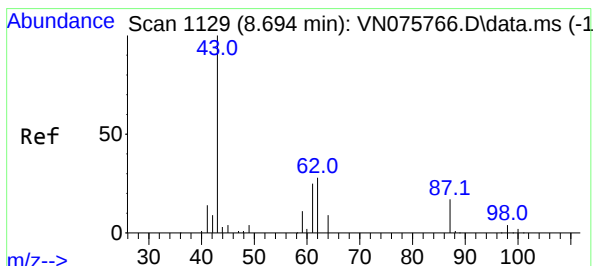
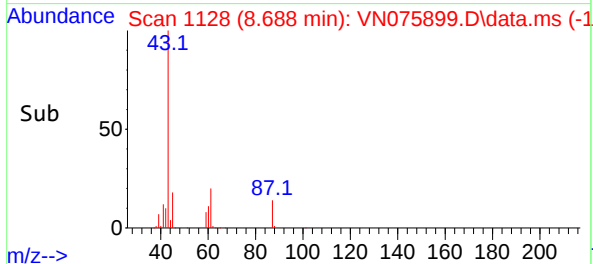
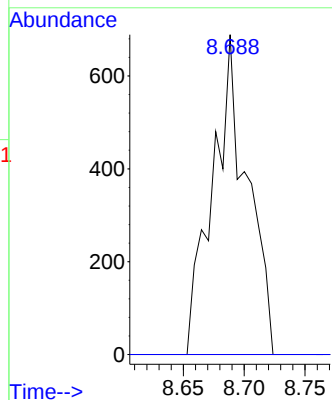
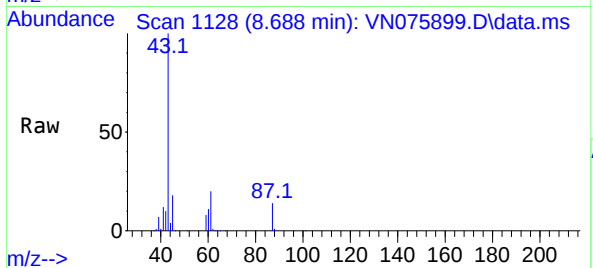




#42
1,2-Dichloroethane
Concen: 0.276 ug/l
RT: 8.688 min Scan# 1128
Delta R.T. 0.012 min
Lab File: VN075899.D
Acq: 20 Dec 2022 15:23

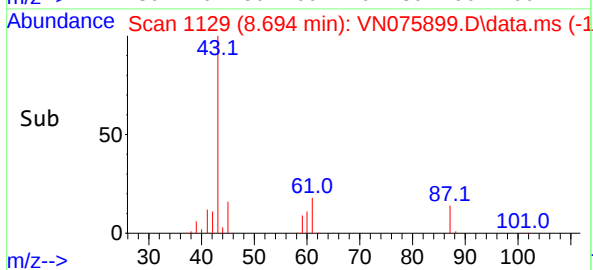
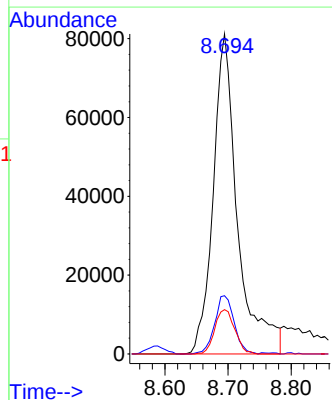
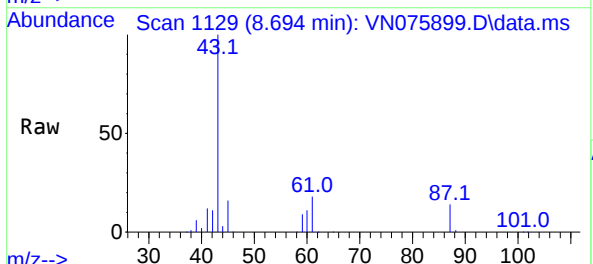
Instrument :
MSVOA_N
ClientSampleId :
TCLP-VOC-3052

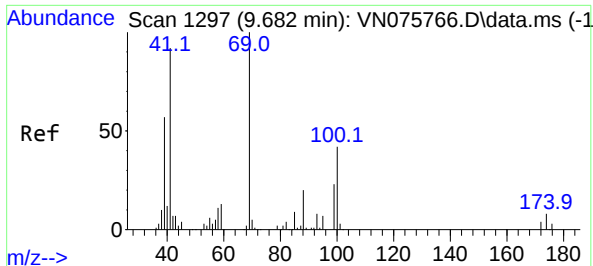
Tgt Ion: 62 Resp: 1369
Ion Ratio Lower Upper
62 100
98 0.0 0.0 20.8



#43
Isopropyl Acetate
Concen: 33.897 ug/l
RT: 8.694 min Scan# 1129
Delta R.T. -0.000 min
Lab File: VN075899.D
Acq: 20 Dec 2022 15:23

Tgt Ion: 43 Resp: 217368
Ion Ratio Lower Upper
43 100
61 14.6 24.2 36.4#
87 11.4 13.3 19.9#





#48

Methyl methacrylate

Concen: 42.341 ug/l

RT: 9.747 min Scan# 1308

Delta R.T. 0.065 min

Lab File: VN075899.D

Acq: 20 Dec 2022 15:23

Instrument :

MSVOA_N

ClientSampleId :

TCLP-VOC-3052

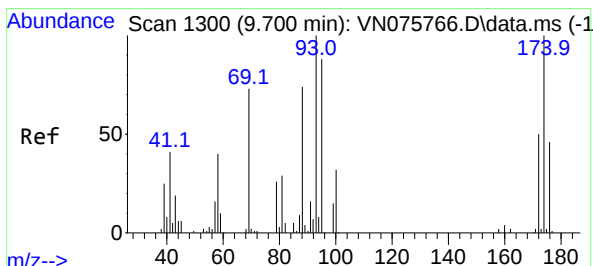
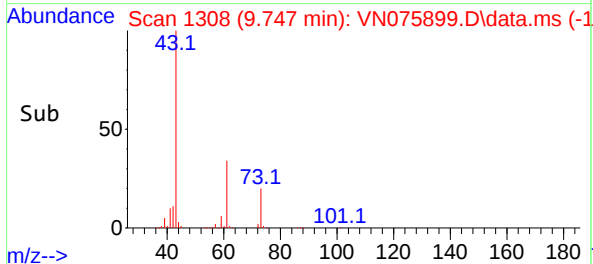
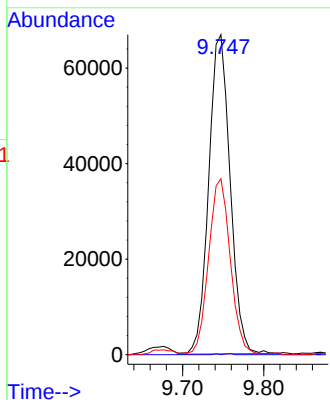
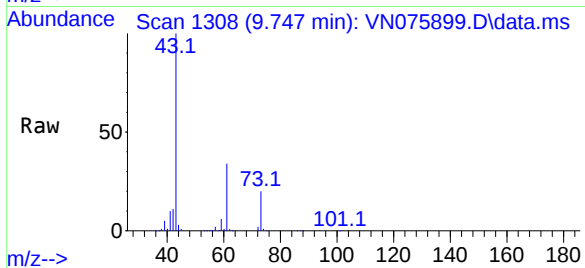
Tgt Ion: 41 Resp: 122288

Ion Ratio Lower Upper

41 100

69 0.2 81.9 122.9#

39 55.5 51.6 77.4



#49

1,4-Dioxane

Concen: 1.732 ug/l

RT: 9.747 min Scan# 1308

Delta R.T. 0.047 min

Lab File: VN075899.D

Acq: 20 Dec 2022 15:23

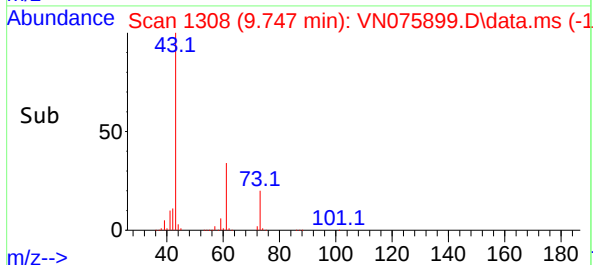
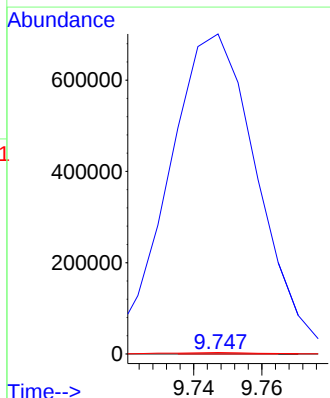
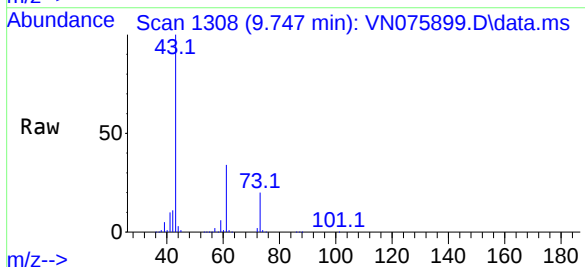
Tgt Ion: 88 Resp: 123

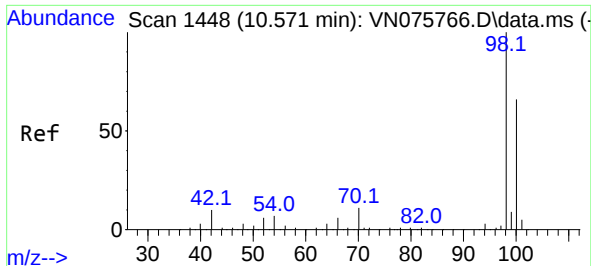
Ion Ratio Lower Upper

88 100

43 1054104.1 17.1 25.7#

58 4703.3 47.8 71.8#

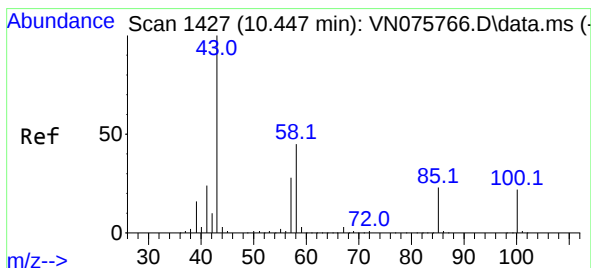
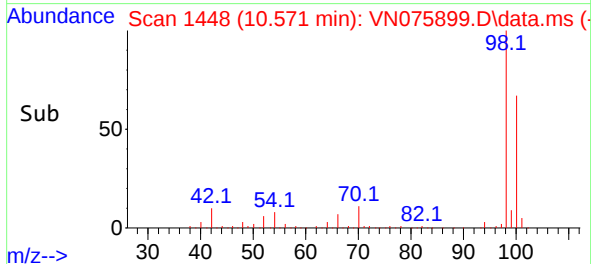
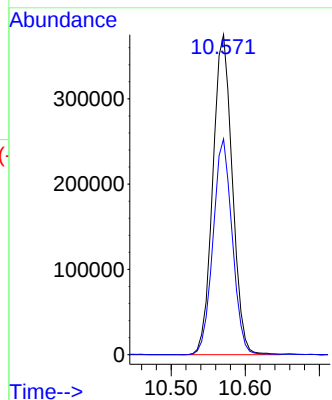
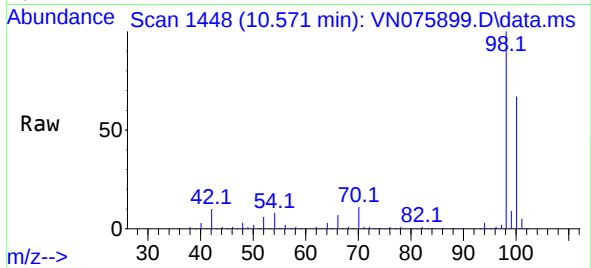




#50
Toluene-d8
Concen: 50.365 ug/l
RT: 10.571 min Scan# 1448
Delta R.T. -0.000 min
Lab File: VN075899.D
Acq: 20 Dec 2022 15:23

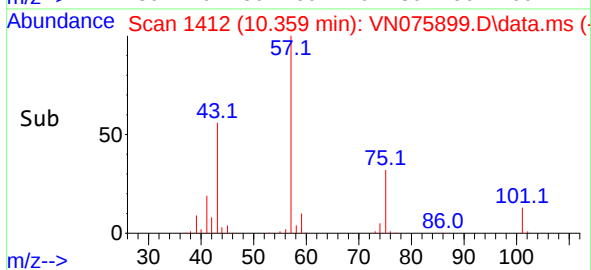
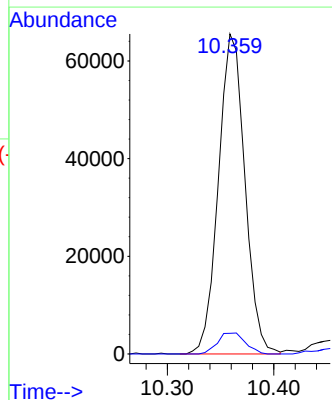
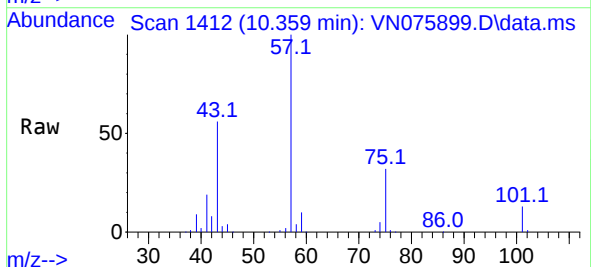
Instrument :
MSVOA_N
ClientSampleId :
TCLP-VOC-3052

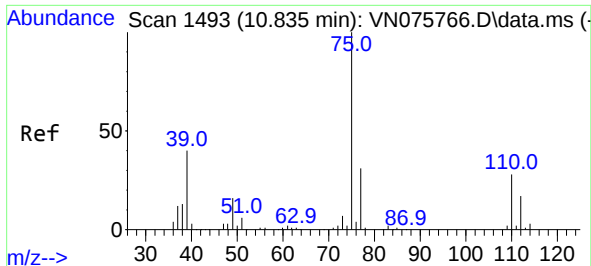
Tgt Ion: 98 Resp: 686057
Ion Ratio Lower Upper
98 100
100 66.5 52.1 78.1



#51
4-Methyl-2-Pentanone
Concen: 29.162 ug/l
RT: 10.359 min Scan# 1412
Delta R.T. -0.088 min
Lab File: VN075899.D
Acq: 20 Dec 2022 15:23

Tgt Ion: 43 Resp: 113093
Ion Ratio Lower Upper
43 100
58 6.9 35.5 53.3#

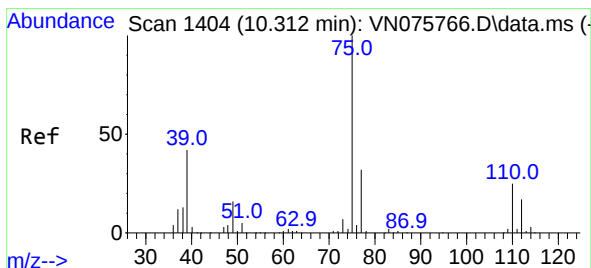
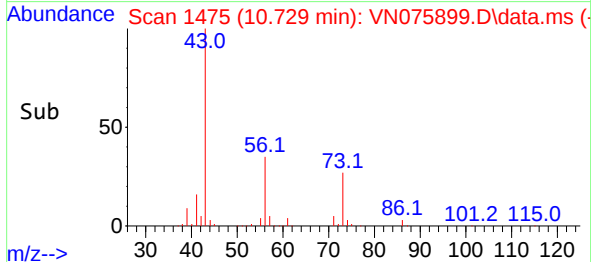
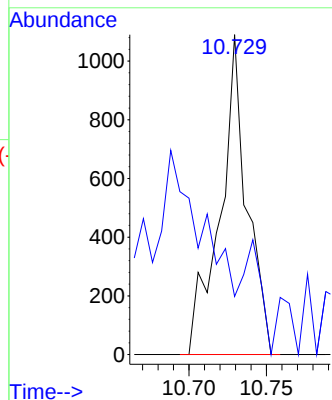
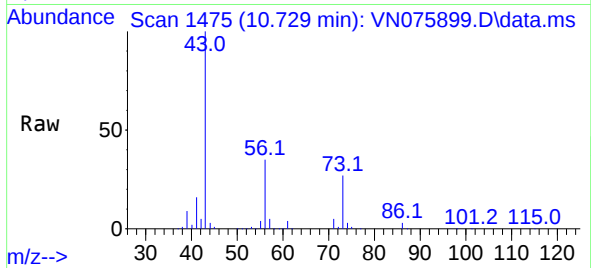




#53
t-1,3-Dichloropropene
Concen: 0.254 ug/l
RT: 10.729 min Scan# 1412
Delta R.T. -0.106 min
Lab File: VN075899.D
Acq: 20 Dec 2022 15:23

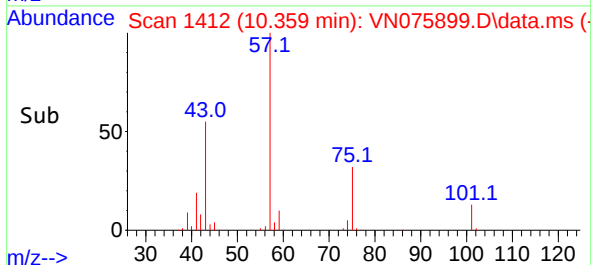
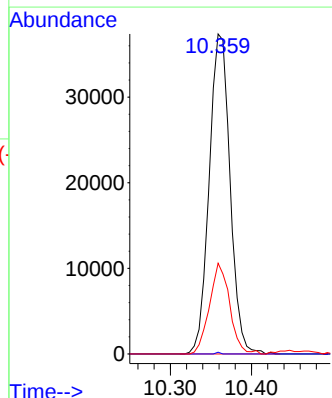
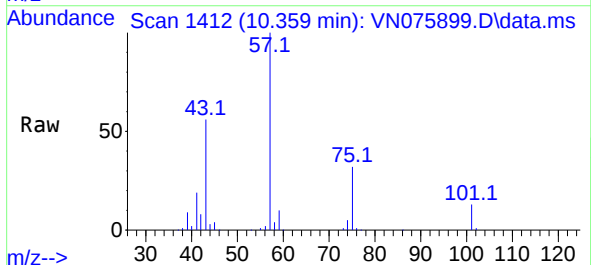
Instrument :
MSVOA_N
ClientSampleId :
TCLP-VOC-3052

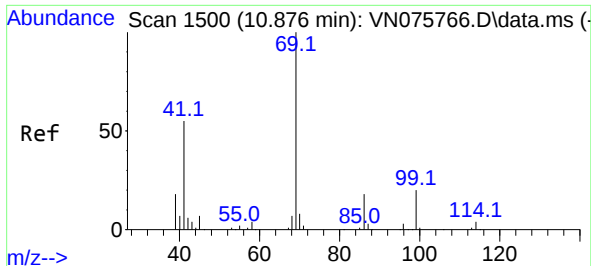
Tgt Ion: 75 Resp: 1312
Ion Ratio Lower Upper
75 100
77 0.3 24.9 37.3#



#54
cis-1,3-Dichloropropene
Concen: 11.750 ug/l
RT: 10.359 min Scan# 1412
Delta R.T. 0.047 min
Lab File: VN075899.D
Acq: 20 Dec 2022 15:23

Tgt Ion: 75 Resp: 66746
Ion Ratio Lower Upper
75 100
77 0.5 25.8 38.8#
39 28.3 33.4 50.2#

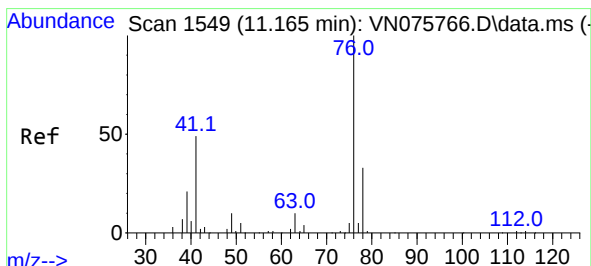
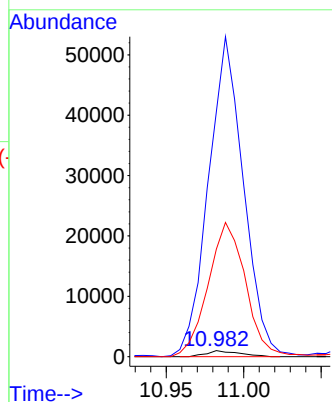
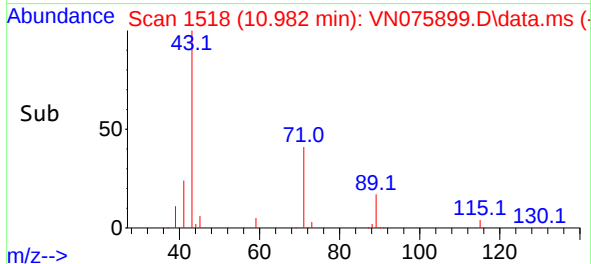
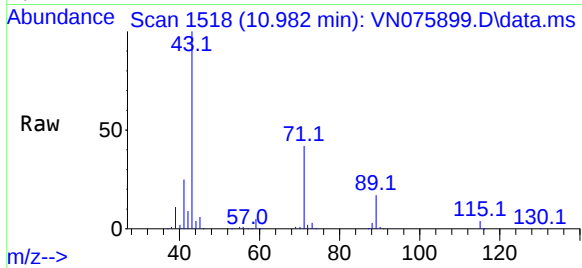




#56
Ethyl methacrylate
Concen: 0.292 ug/l
RT: 10.982 min Scan# 11
Delta R.T. 0.106 min
Lab File: VN075899.D
Acq: 20 Dec 2022 15:23

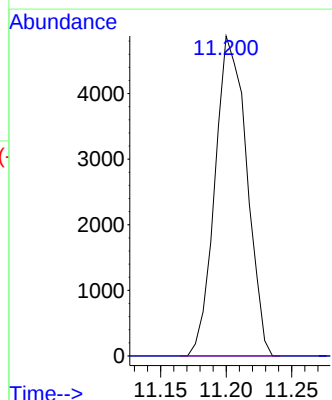
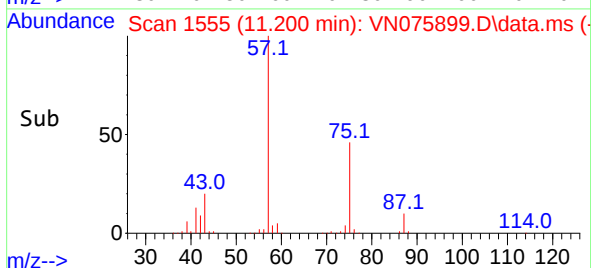
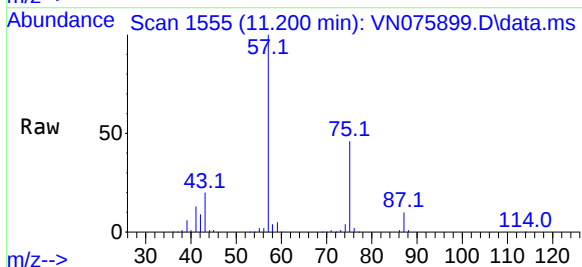
Instrument :
MSVOA_N
ClientSampleId :
TCLP-VOC-3052

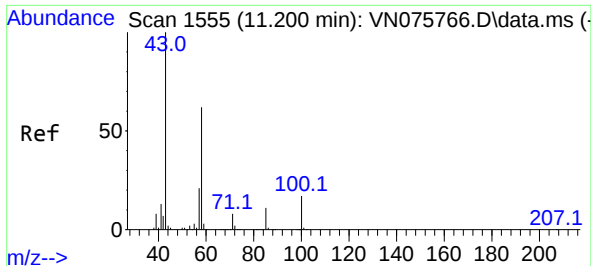
Tgt Ion: 69 Resp: 1479
Ion Ratio Lower Upper
69 100
41 5643.8 44.2 66.4#
39 2528.3 26.4 39.6#



#57
1,3-Dichloropropane
Concen: 1.309 ug/l
RT: 11.200 min Scan# 1555
Delta R.T. 0.035 min
Lab File: VN075899.D
Acq: 20 Dec 2022 15:23

Tgt Ion: 76 Resp: 8197
Ion Ratio Lower Upper
76 100
78 0.0 26.2 39.2#

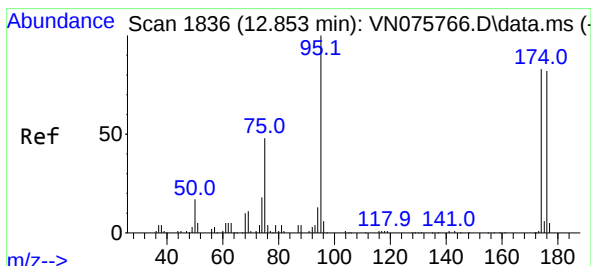
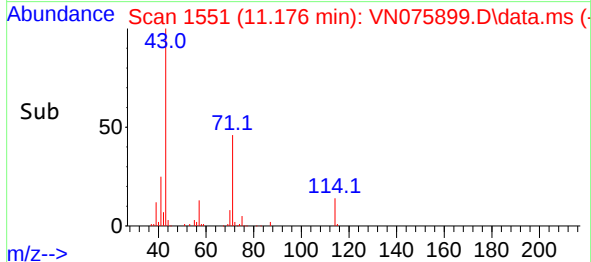
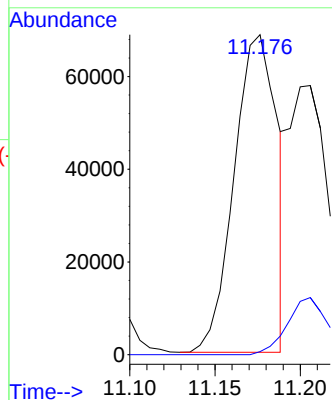
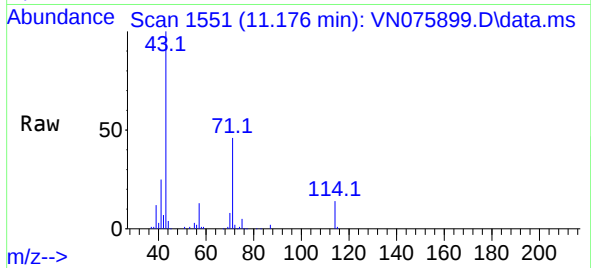




#59
2-Hexanone
Concen: 42.422 ug/l
RT: 11.176 min Scan# 1119
Delta R.T. -0.024 min
Lab File: VN075899.D
Acq: 20 Dec 2022 15:23

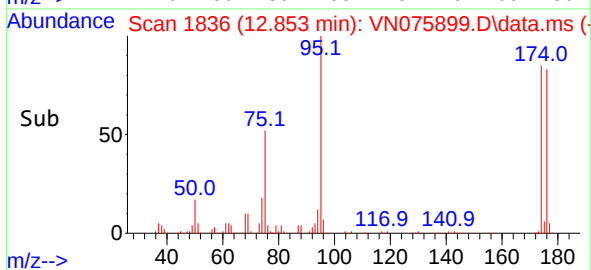
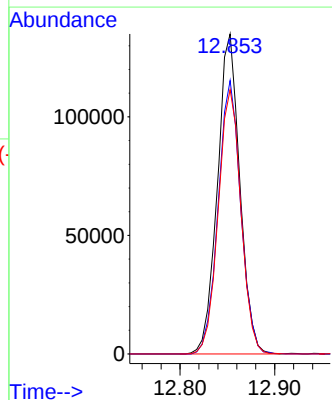
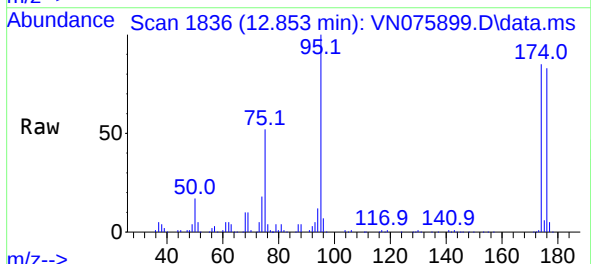
Instrument :
MSVOA_N
ClientSampleId :
TCLP-VOC-3052

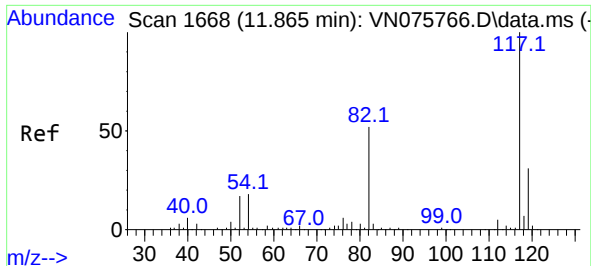
Tgt Ion: 43 Resp: 119977
Ion Ratio Lower Upper
43 100
58 0.0 30.6 92.0#



#62
4-Bromofluorobenzene
Concen: 49.148 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. -0.000 min
Lab File: VN075899.D
Acq: 20 Dec 2022 15:23

Tgt Ion: 95 Resp: 221737
Ion Ratio Lower Upper
95 100
174 85.9 0.0 171.6
176 83.6 0.0 169.2

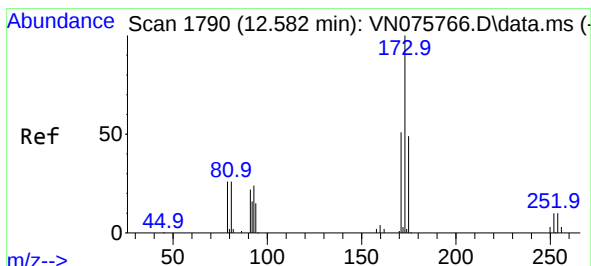
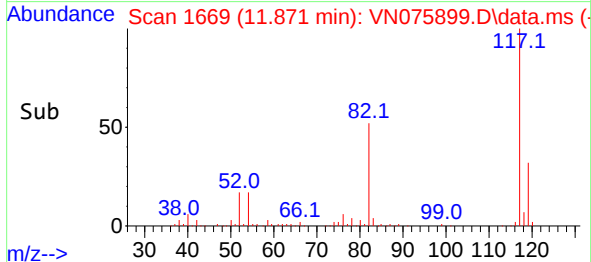
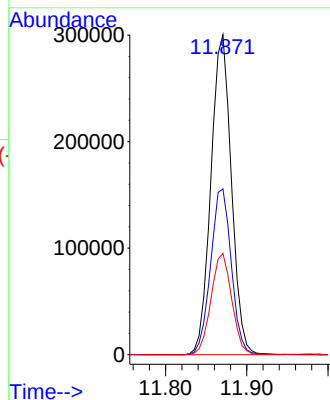
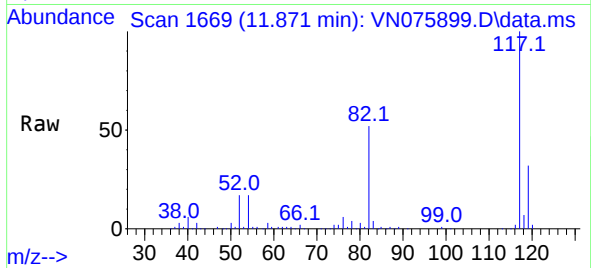




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN075899.D
Acq: 20 Dec 2022 15:23

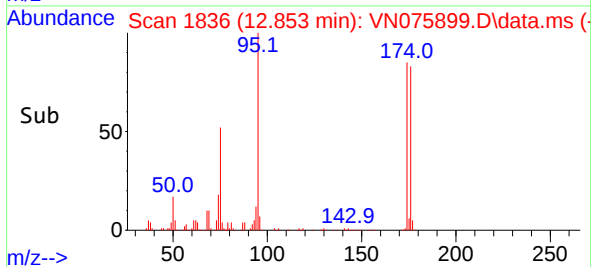
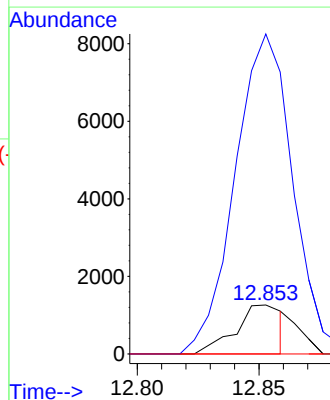
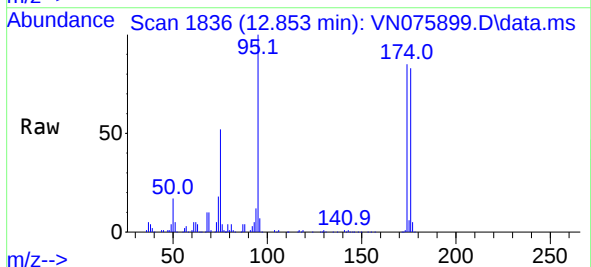
Instrument :
MSVOA_N
ClientSampleId :
TCLP-VOC-3052

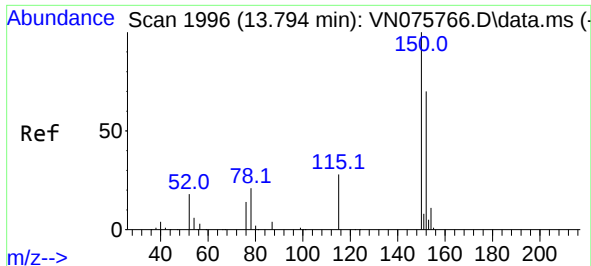
Tgt Ion:117 Resp: 525892
Ion Ratio Lower Upper
117 100
82 51.8 41.3 61.9
119 31.7 24.6 37.0



#71
Bromoform
Concen: 0.581 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.271 min
Lab File: VN075899.D
Acq: 20 Dec 2022 15:23

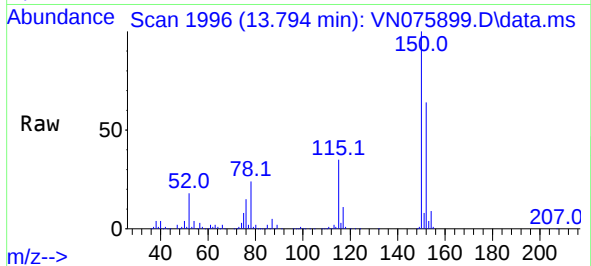
Tgt Ion:173 Resp: 1689
Ion Ratio Lower Upper
173 100
175 661.7 24.3 72.8#
254 0.0 0.0 0.0



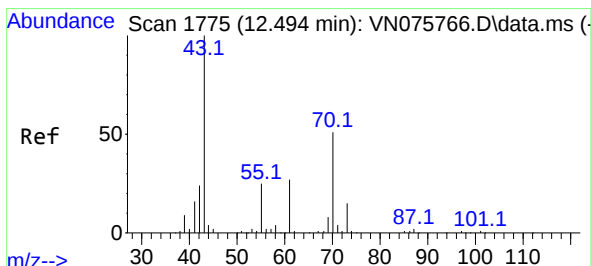
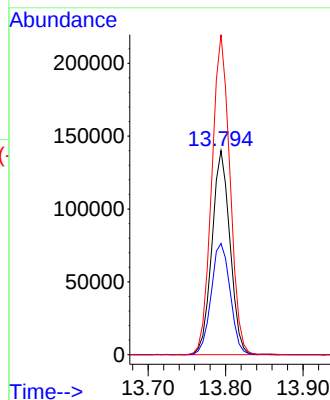
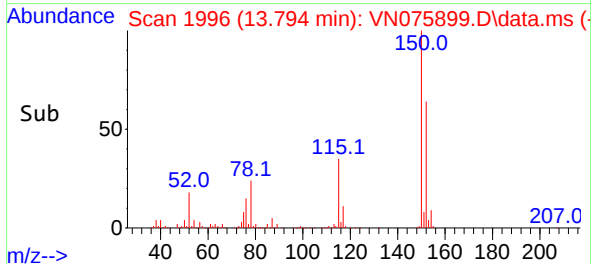


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 1996
Delta R.T. -0.000 min
Lab File: VN075899.D
Acq: 20 Dec 2022 15:23

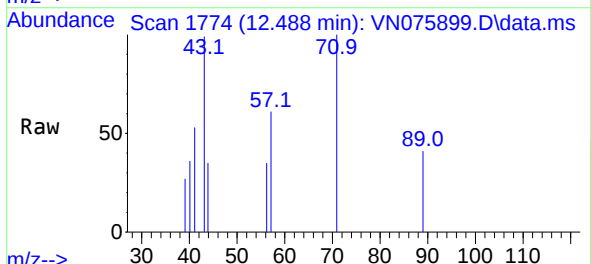
Instrument :
MSVOA_N
ClientSampleId :
TCLP-VOC-3052



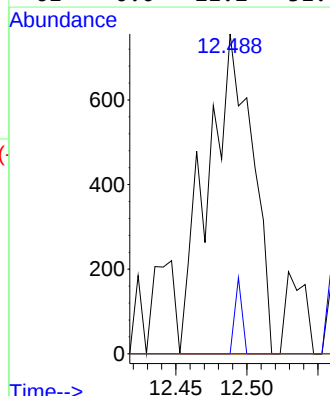
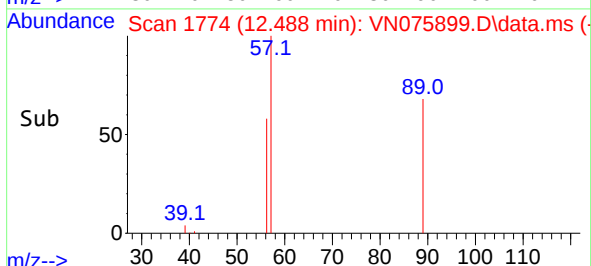
Tgt Ion:152 Resp: 227019
Ion Ratio Lower Upper
152 100
115 57.3 29.1 87.4
150 158.1 0.0 347.0

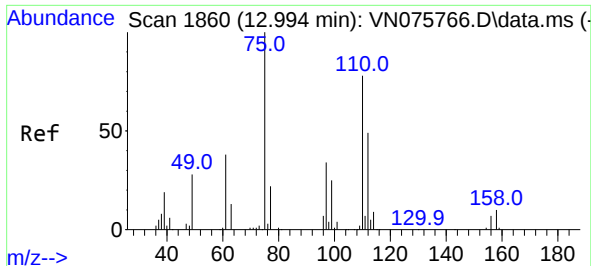


#74
N-ethyl acetate
Concen: 0.345 ug/l
RT: 12.488 min Scan# 1774
Delta R.T. -0.006 min
Lab File: VN075899.D
Acq: 20 Dec 2022 15:23



Tgt Ion: 43 Resp: 1660
Ion Ratio Lower Upper
43 100
70 3.9 41.4 62.0#
55 0.0 21.3 31.9#
61 0.0 21.2 31.8#

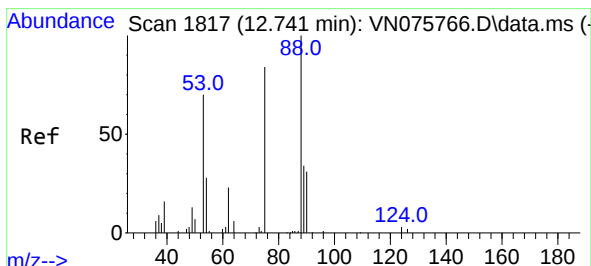
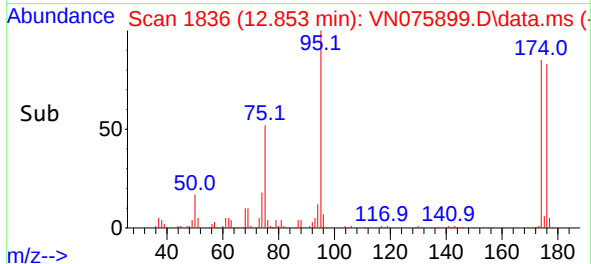
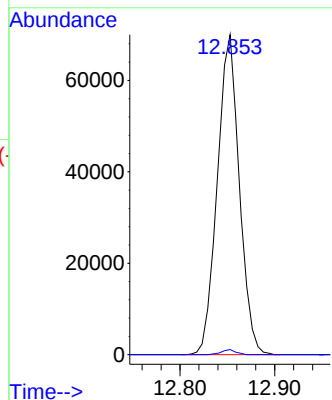
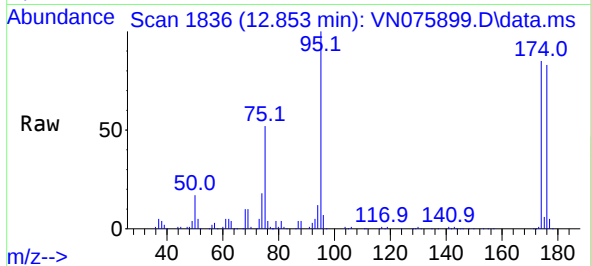




#76
1,2,3-Trichloropropane
Concen: 24.717 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. -0.141 min
Lab File: VN075899.D
Acq: 20 Dec 2022 15:23

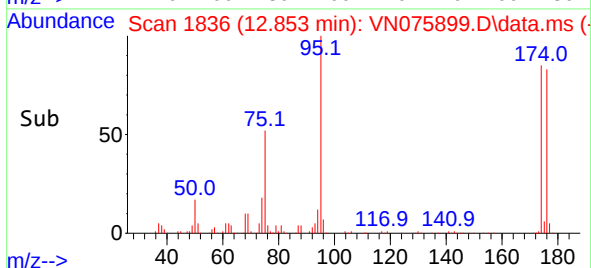
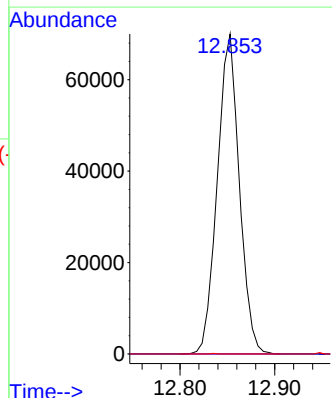
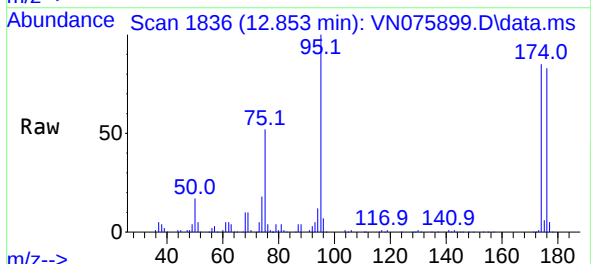
Instrument :
MSVOA_N
ClientSampleId :
TCLP-VOC-3052

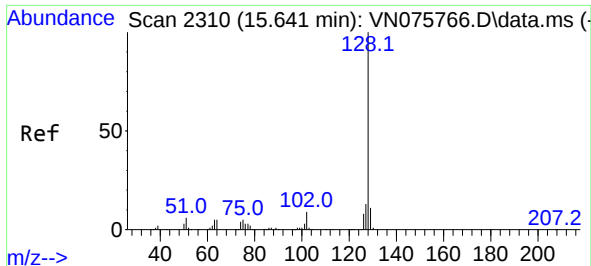
Tgt Ion: 75 Resp: 113110
Ion Ratio Lower Upper
75 100
77 1.0 82.6 247.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 88.970 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.112 min
Lab File: VN075899.D
Acq: 20 Dec 2022 15:23

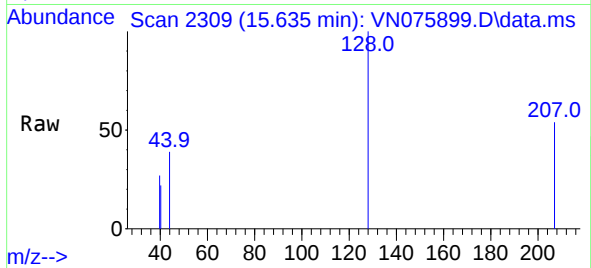
Tgt Ion: 75 Resp: 113110
Ion Ratio Lower Upper
75 100
53 0.0 73.8 110.6#
89 0.0 39.5 59.3#





#95
Naphthalene
Concen: 2.258 ug/l
RT: 15.635 min Scan# 21
Delta R.T. -0.006 min
Lab File: VN075899.D
Acq: 20 Dec 2022 15:23

Instrument :
MSVOA_N
ClientSampleId :
TCLP-VOC-3052



Tgt Ion:128 Resp: 1042
Ion Ratio Lower Upper
128 100
127 0.0 10.4 15.6#
129 0.0 8.7 13.1#

