

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN012723\
 Data File : VN076441.D
 Acq On : 27 Jan 2023 15:58
 Operator : JC\MD
 Sample : 01329-10
 Misc : 7.99g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TOTAL-VOC-7-BORING-2-14-21-GRAB-8

Quant Time: Jan 27 22:40:47 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011623W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 17 03:59:22 2023
 Response via : Initial Calibration

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

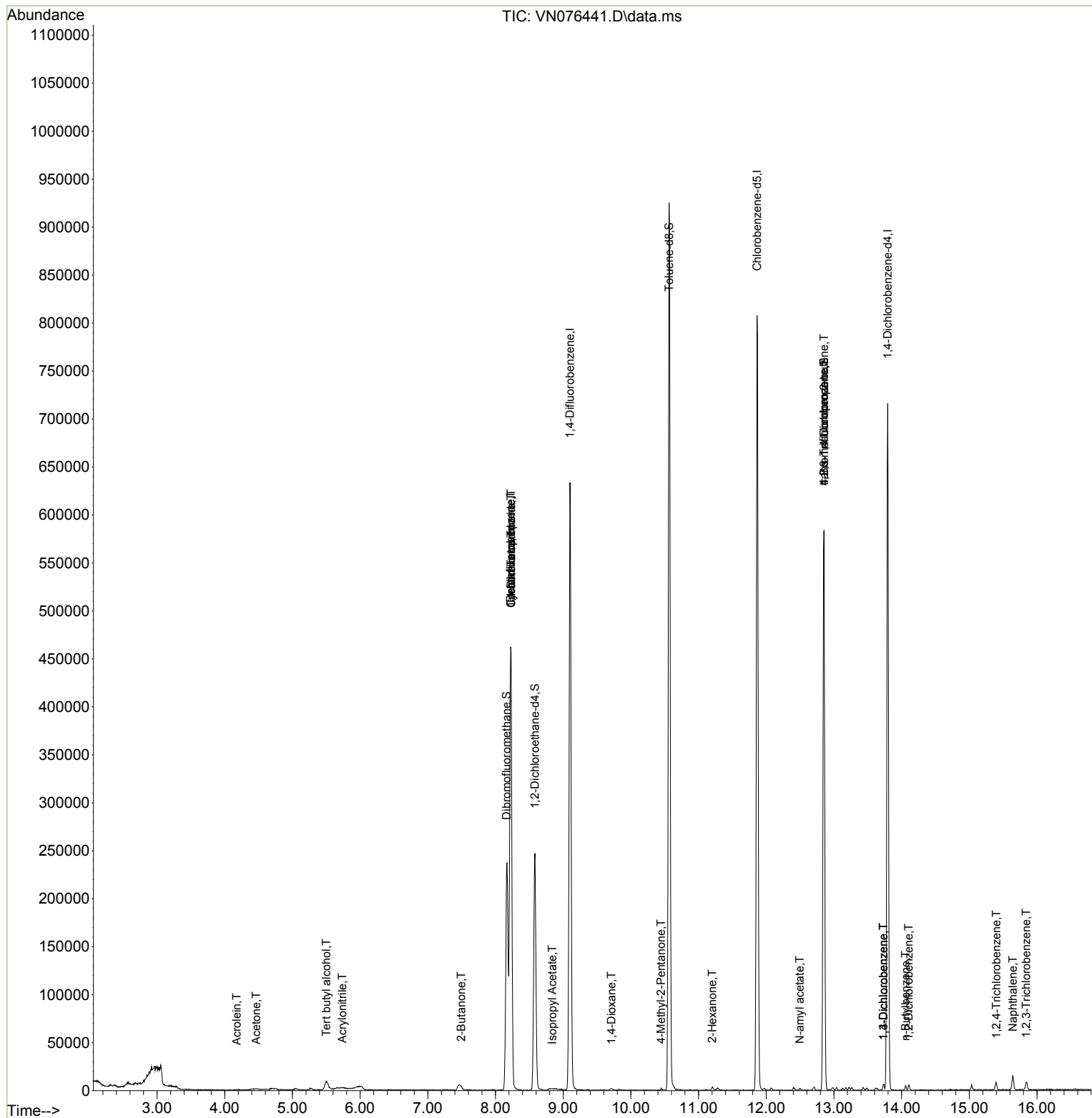
Internal Standards						
1) Pentafluorobenzene	8.224	168	350933	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	571023	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	478560	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	194831	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	202986	51.659	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 103.320%			
35) Dibromofluoromethane	8.165	113	168385	47.140	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 94.280%			
50) Toluene-d8	10.565	98	660973	50.105	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.200%			
62) 4-Bromofluorobenzene	12.853	95	200158	46.478	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 92.960%			
Target Compounds					Qvalue	
11) Tert butyl alcohol	5.500	59	9436	17.954	ug/l #	72
13) Acrolein	4.177	56	163	0.259	ug/l #	39
15) Acrylonitrile	5.736	53	533	0.356	ug/l #	86
16) Acetone	4.465	43	986	0.709	ug/l #	41
20) Methylene Chloride	5.259	84	544	Below Cal	#	66
25) 2-Butanone	7.494	43	692	0.360	ug/l #	40
31) Cyclohexane	8.230	56	7772	1.288	ug/l #	36
36) 1,1-Dichloropropene	8.230	75	27773	5.472	ug/l #	48
38) Carbon Tetrachloride	8.230	117	36434	6.437	ug/l #	16
43) Isopropyl Acetate	8.841	43	2584	0.390	ug/l #	51
49) 1,4-Dioxane	9.712	88	1970	29.776	ug/l	98
51) 4-Methyl-2-Pentanone	10.447	43	1304	0.335	ug/l	96
59) 2-Hexanone	11.200	43	2650	0.941	ug/l	78
74) N-amyl acetate	12.494	43	885	0.204	ug/l #	87
76) 1,2,3-Trichloropropane	12.853	75	107151	29.806	ug/l #	1
77) Bromobenzene	12.982	156	842	Below Cal		91
81) trans-1,4-Dichloro-2-b...	12.853	75	107151	91.505	ug/l #	11
87) 1,3-Dichlorobenzene	13.729	146	2311	0.325	ug/l	96
88) 1,4-Dichlorobenzene	13.729	146	2311	0.442	ug/l	95
89) n-Butylbenzene	14.059	91	3095	0.304	ug/l	95
91) 1,2-Dichlorobenzene	14.106	146	2494	0.352	ug/l	94
93) 1,2,4-Trichlorobenzene	15.400	180	3232	2.226	ug/l	93
95) Naphthalene	15.641	128	14319	3.201	ug/l	98
96) 1,2,3-Trichlorobenzene	15.841	180	3507	2.205	ug/l	87

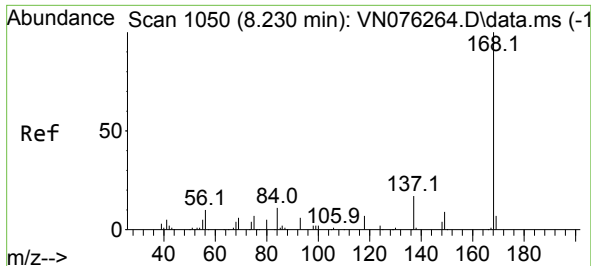
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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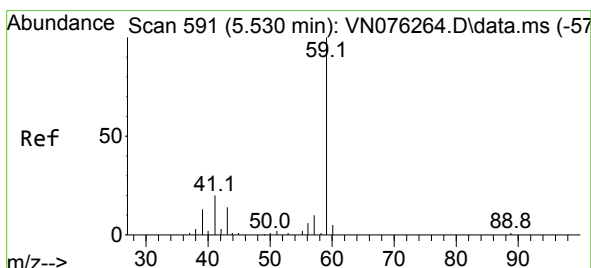
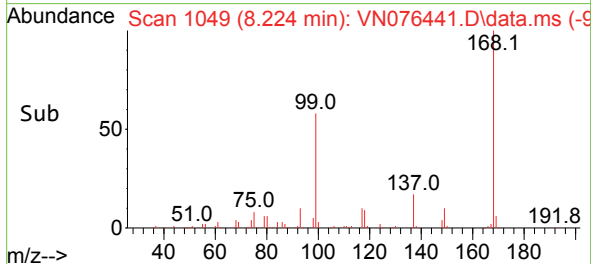
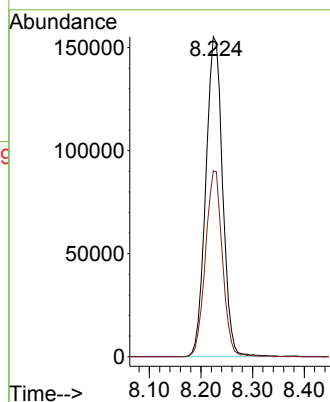
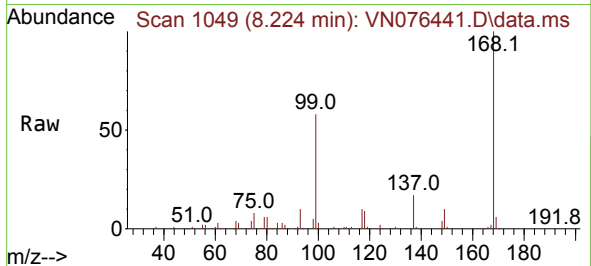




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1049
Delta R.T. -0.006 min
Lab File: VN076441.D
Acq: 27 Jan 2023 15:58

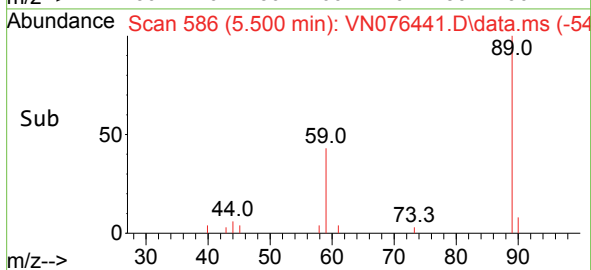
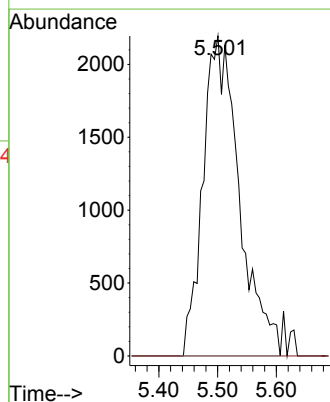
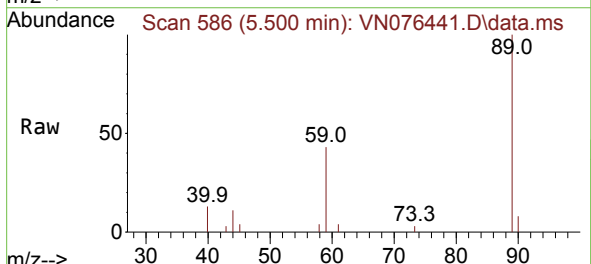
Instrument : MSVOA_N
ClientSampleId : TOTAL-VOC-7-BORING-2-14-21-GRAB-8

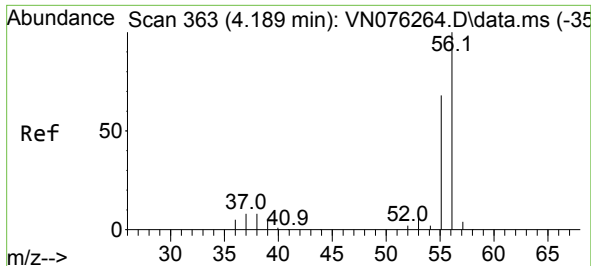
Tgt Ion:168 Resp: 350933
Ion Ratio Lower Upper
168 100
99 58.1 41.6 62.4



#11
Tert butyl alcohol
Concen: 17.954 ug/l
RT: 5.500 min Scan# 586
Delta R.T. -0.030 min
Lab File: VN076441.D
Acq: 27 Jan 2023 15:58

Tgt Ion: 59 Resp: 9436
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#





#13

Acrolein

Concen: 0.259 ug/l

RT: 4.177 min Scan# 3

Delta R.T. -0.012 min

Lab File: VN076441.D

Acq: 27 Jan 2023 15:58

Instrument :

MSVOA_N

ClientSampleId :

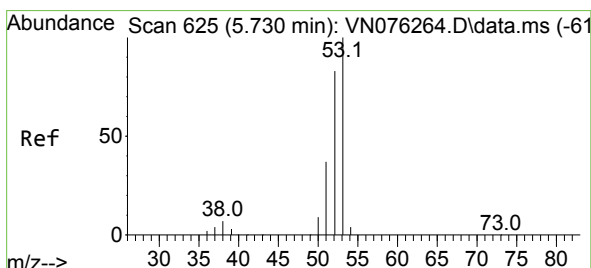
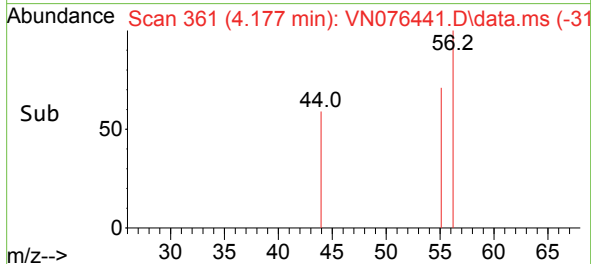
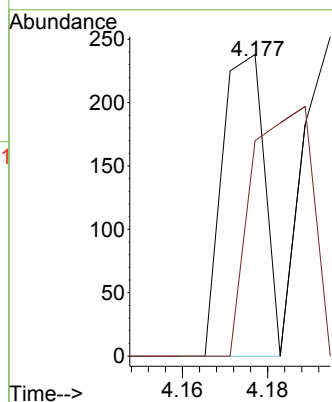
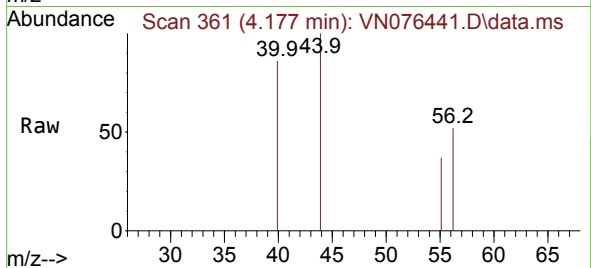
TOTAL-VOC-7-BORING-2-14-21-GRAB-8

Tgt Ion: 56 Resp: 163

Ion Ratio Lower Upper

56 100

55 119.6 55.8 83.6#



#15

Acrylonitrile

Concen: 0.356 ug/l

RT: 5.736 min Scan# 626

Delta R.T. 0.006 min

Lab File: VN076441.D

Acq: 27 Jan 2023 15:58

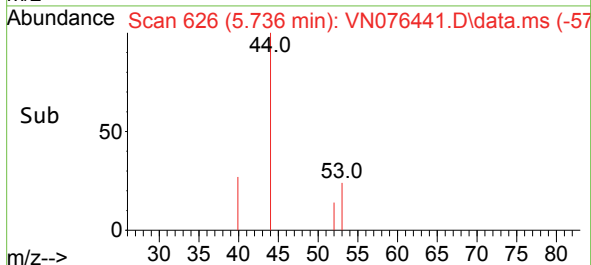
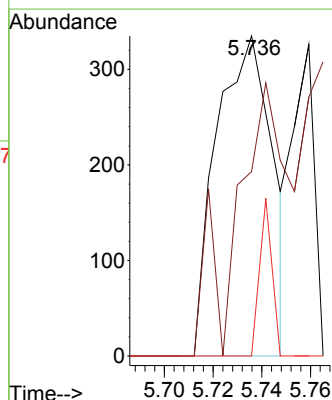
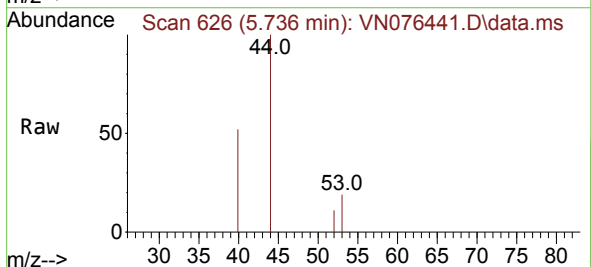
Tgt Ion: 53 Resp: 533

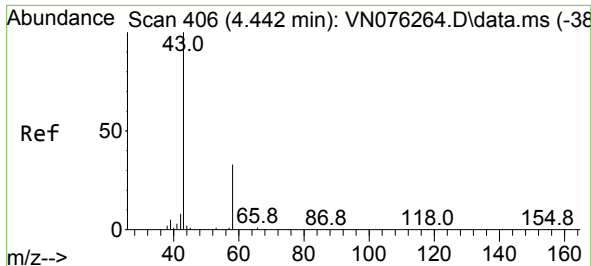
Ion Ratio Lower Upper

53 100

52 80.1 64.7 97.1

51 10.9 29.2 43.8#





#16

Acetone

Concen: 0.709 ug/l

RT: 4.465 min Scan# 410

Delta R.T. 0.023 min

Lab File: VN076441.D

Acq: 27 Jan 2023 15:58

Instrument :

MSVOA_N

ClientSampleId :

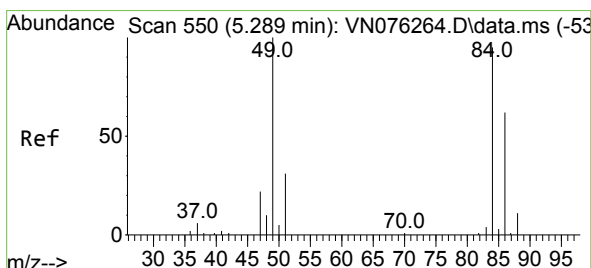
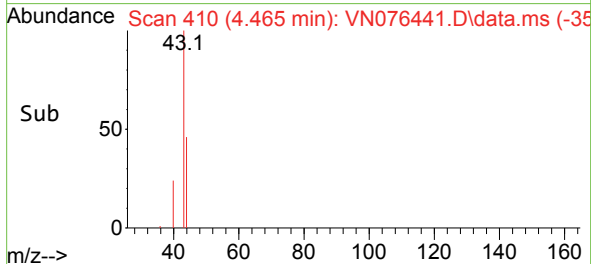
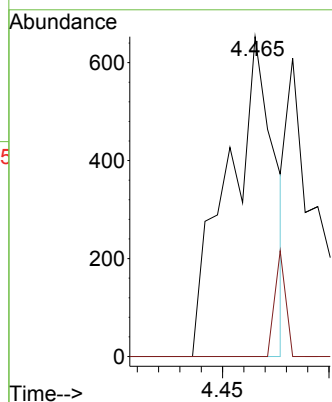
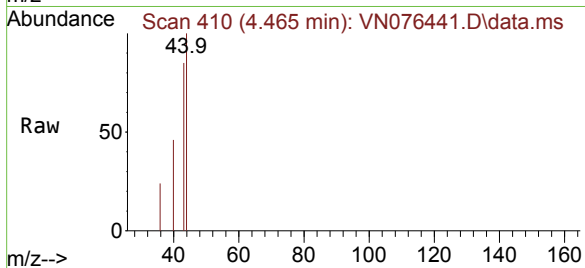
TOTAL-VOC-7-BORING-2-14-21-GRAB-8

Tgt Ion: 43 Resp: 986

Ion Ratio Lower Upper

43 100

58 0.0 26.7 40.1#



#20

Methylene Chloride

Concen: Below Cal

RT: 5.259 min Scan# 545

Delta R.T. -0.030 min

Lab File: VN076441.D

Acq: 27 Jan 2023 15:58

Tgt Ion: 84 Resp: 544

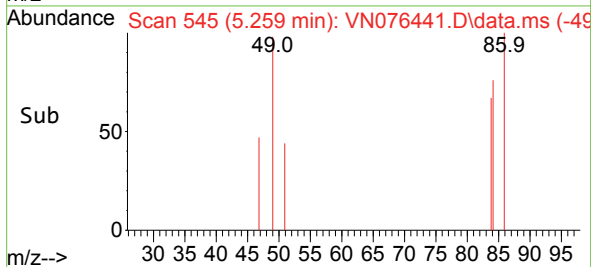
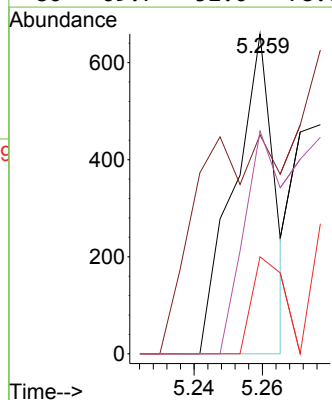
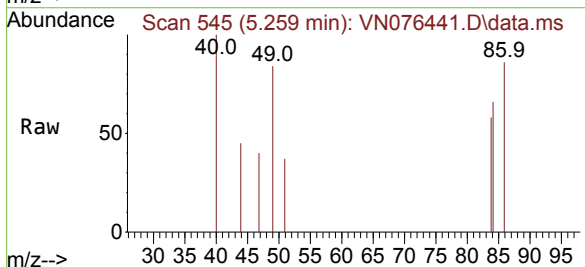
Ion Ratio Lower Upper

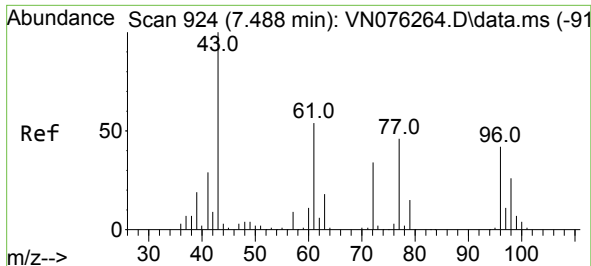
84 100

49 42.3 84.5 126.7#

51 30.3 26.0 39.0

86 69.7 52.0 78.0

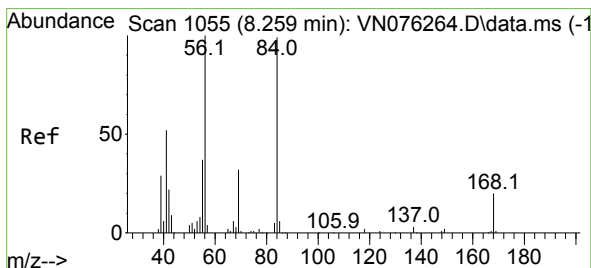
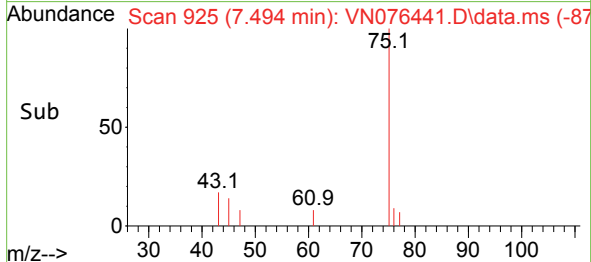
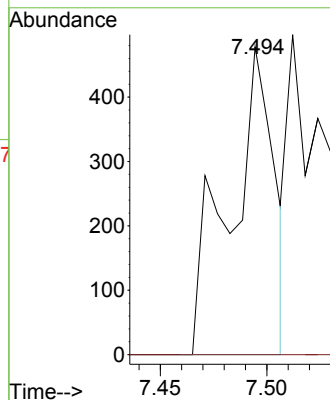
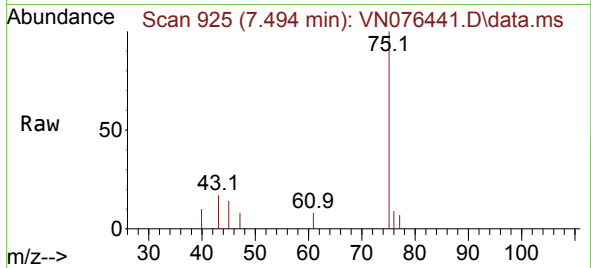




#25
2-Butanone
Concen: 0.360 ug/l
RT: 7.494 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN076441.D
Acq: 27 Jan 2023 15:58

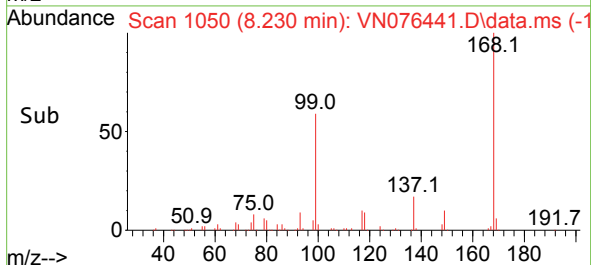
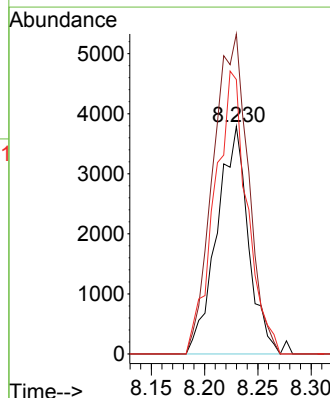
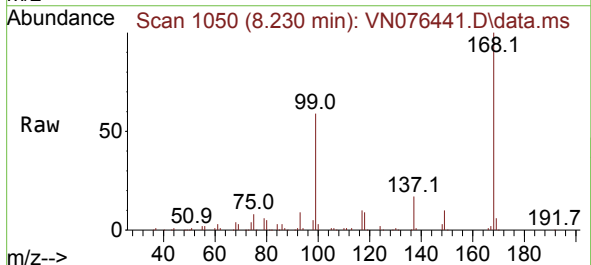
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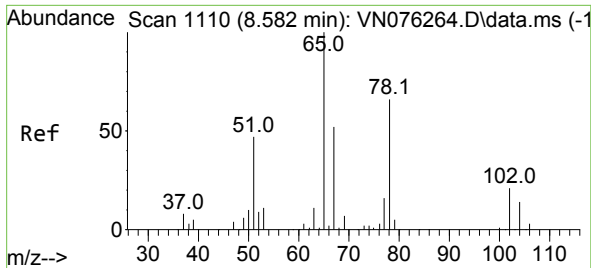
Tgt Ion: 43 Resp: 692
Ion Ratio Lower Upper
43 100
72 0.0 27.4 41.2#



#31
Cyclohexane
Concen: 1.288 ug/l
RT: 8.230 min Scan# 1050
Delta R.T. -0.029 min
Lab File: VN076441.D
Acq: 27 Jan 2023 15:58

Tgt Ion: 56 Resp: 7772
Ion Ratio Lower Upper
56 100
69 140.7 25.8 38.8#
84 120.6 79.0 118.4#

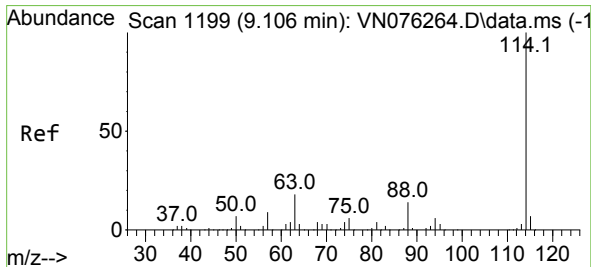
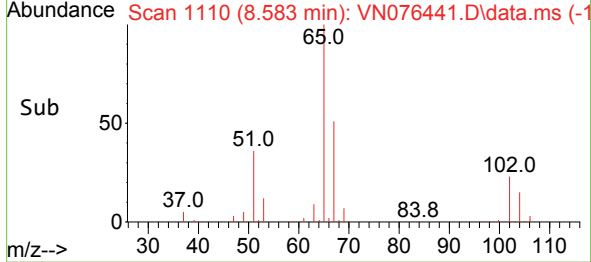
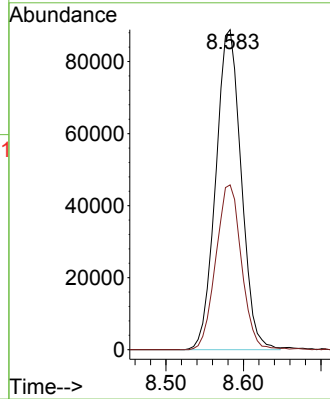
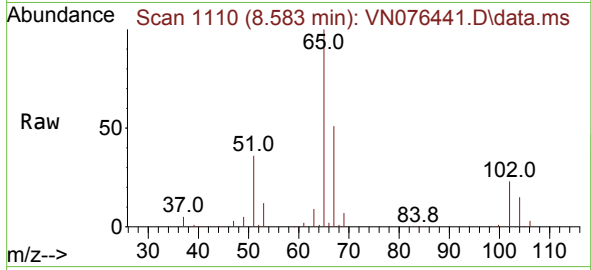




#33
1,2-Dichloroethane-d4
Concen: 51.659 ug/l
RT: 8.583 min Scan# 1110
Delta R.T. 0.001 min
Lab File: VN076441.D
Acq: 27 Jan 2023 15:58

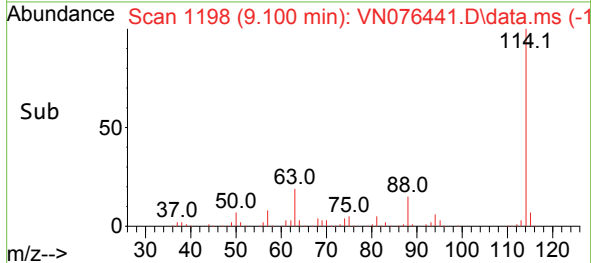
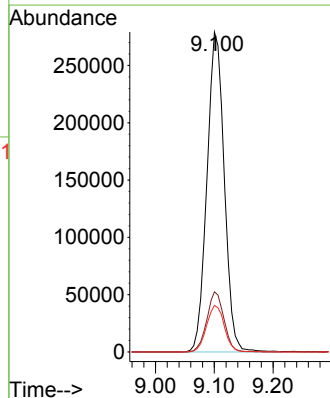
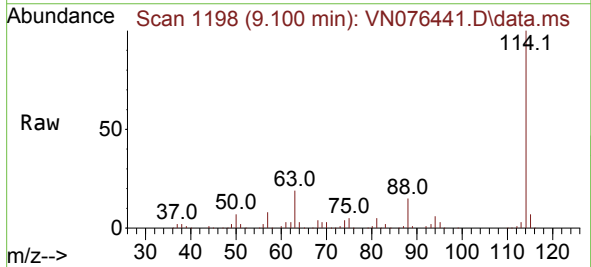
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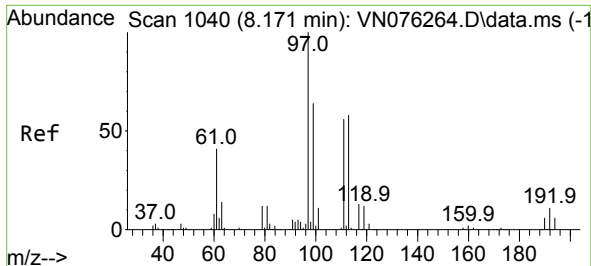
Tgt Ion: 65 Resp: 202986
Ion Ratio Lower Upper
65 100
67 52.0 0.0 104.6



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1198
Delta R.T. -0.006 min
Lab File: VN076441.D
Acq: 27 Jan 2023 15:58

Tgt Ion: 114 Resp: 571023
Ion Ratio Lower Upper
114 100
63 18.8 0.0 35.8
88 14.6 0.0 28.0





#35

Dibromofluoromethane

Concen: 47.140 ug/l

RT: 8.165 min Scan# 1039

Delta R.T. -0.006 min

Lab File: VN076441.D

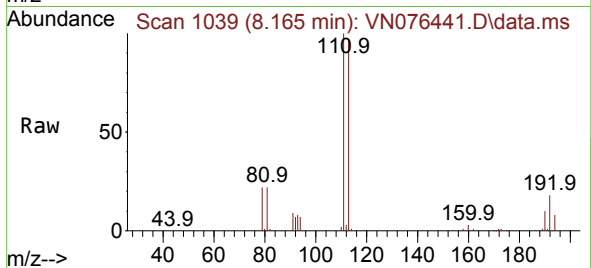
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Instrument :

MSVOA_N

ClientSampleId :

TOTAL-VOC-7-BORING-2-14-21-GRAB-8



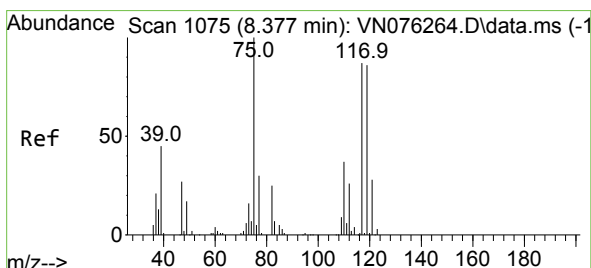
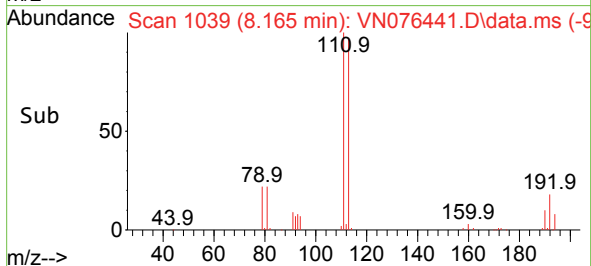
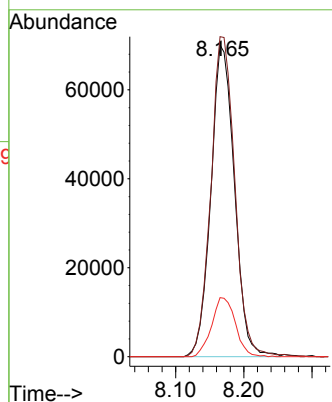
Tgt Ion:113 Resp: 168385

Ion Ratio Lower Upper

113 100

111 104.5 82.7 124.1

192 19.1 15.6 23.4



#36

1,1-Dichloropropene

Concen: 5.472 ug/l

RT: 8.230 min Scan# 1050

Delta R.T. -0.147 min

Lab File: VN076441.D

Acq: 27 Jan 2023 15:58

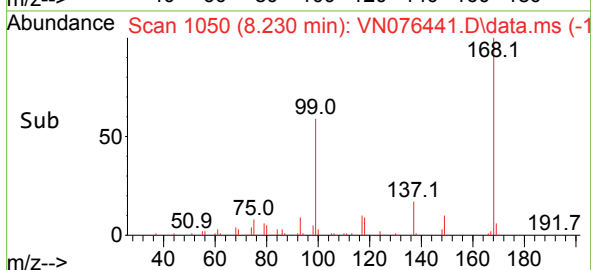
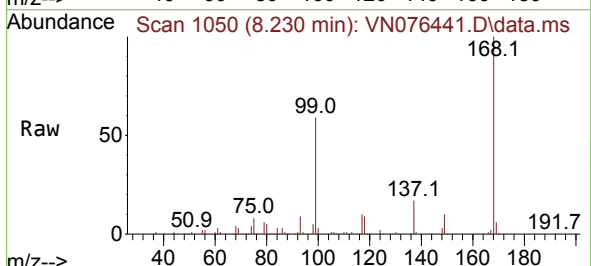
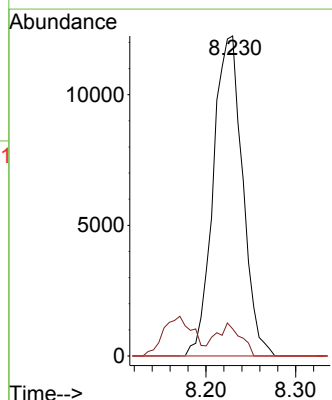
Tgt Ion: 75 Resp: 27773

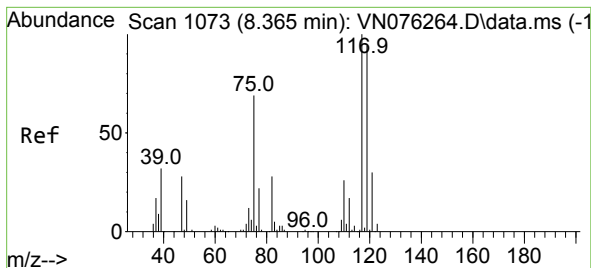
Ion Ratio Lower Upper

75 100

110 8.4 18.8 56.3#

77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 6.437 ug/l

RT: 8.230 min Scan# 1154

Delta R.T. -0.135 min

Lab File: VN076441.D

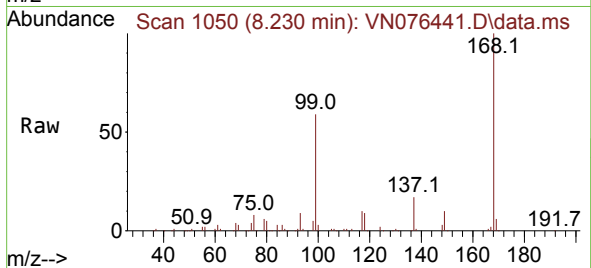
Acq: 27 Jan 2023 15:58

Instrument :

MSVOA_N

ClientSampleId :

TOTAL-VOC-7-BORING-2-14-21-GRAB-8



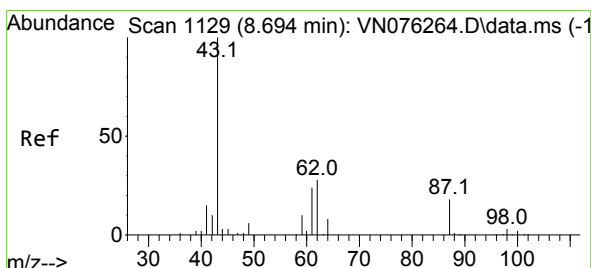
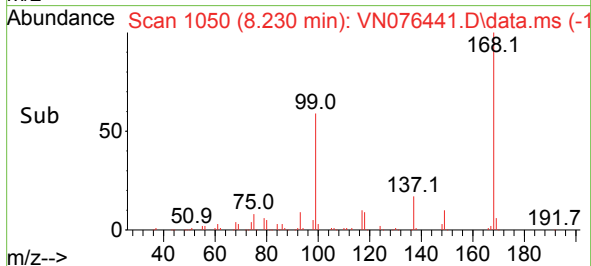
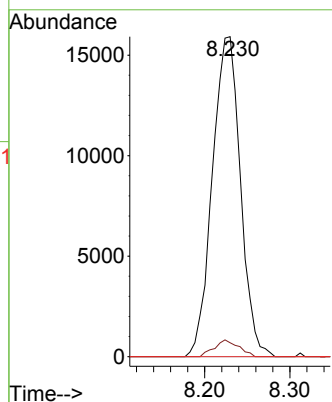
Tgt Ion:117 Resp: 36434

Ion Ratio Lower Upper

117 100

119 4.4 75.4 113.0#

121 0.0 24.2 36.2#



#43

Isopropyl Acetate

Concen: 0.390 ug/l

RT: 8.841 min Scan# 1154

Delta R.T. 0.147 min

Lab File: VN076441.D

Acq: 27 Jan 2023 15:58

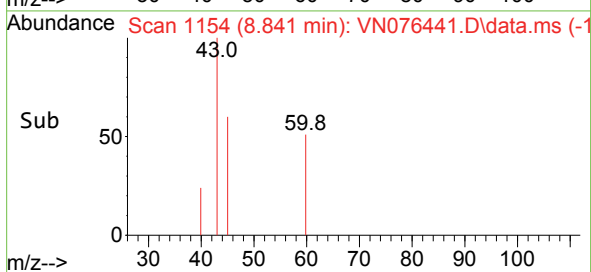
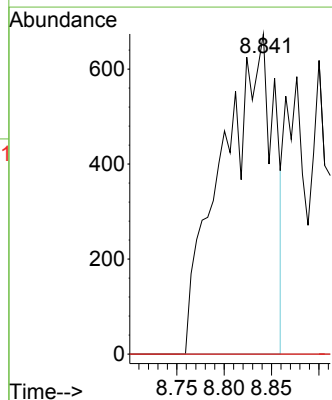
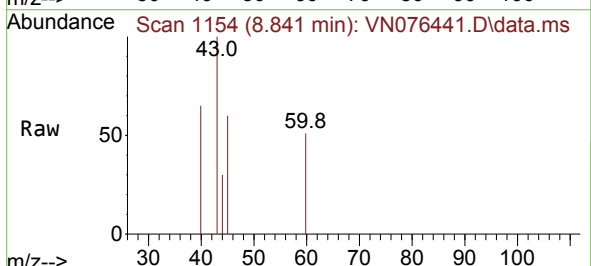
Tgt Ion: 43 Resp: 2584

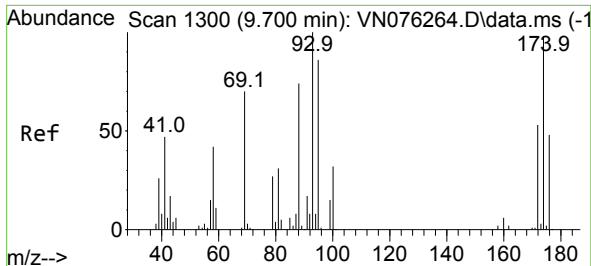
Ion Ratio Lower Upper

43 100

61 0.0 23.5 35.3#

87 0.0 13.8 20.6#





#49

1,4-Dioxane

Concen: 29.776 ug/l

RT: 9.712 min Scan# 11

Delta R.T. 0.012 min

Lab File: VN076441.D

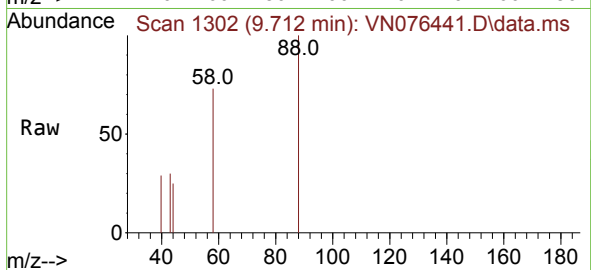
Acq: 27 Jan 2023 15:58

Instrument :

MSVOA_N

ClientSampleId :

TOTAL-VOC-7-BORING-2-14-21-GRAB-8



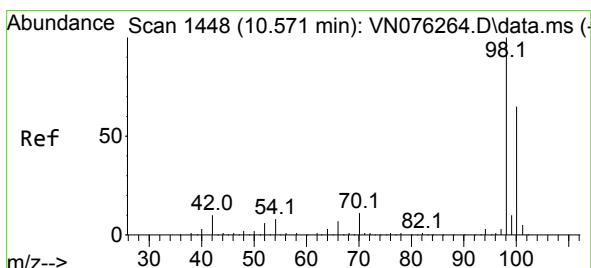
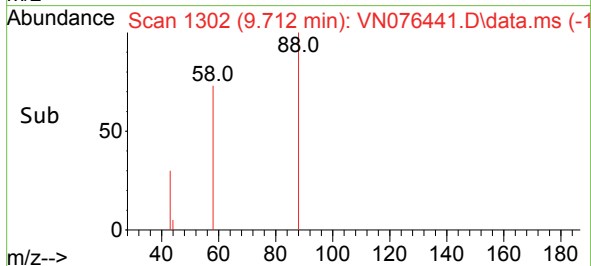
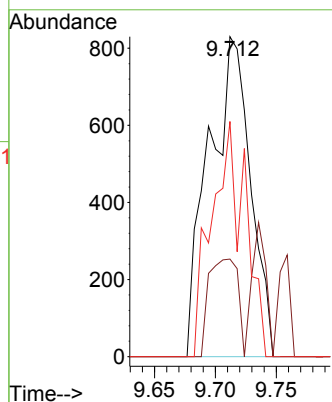
Tgt Ion: 88 Resp: 1970

Ion Ratio Lower Upper

88 100

43 21.2 18.1 27.1

58 59.5 46.5 69.7



#50

Toluene-d8

Concen: 50.105 ug/l

RT: 10.565 min Scan# 1447

Delta R.T. -0.006 min

Lab File: VN076441.D

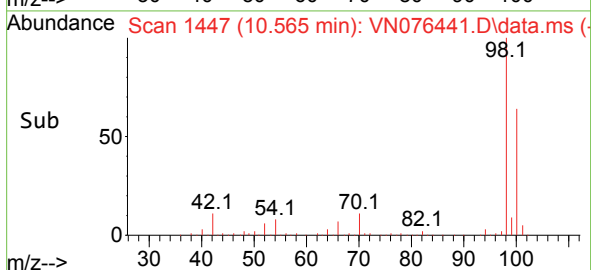
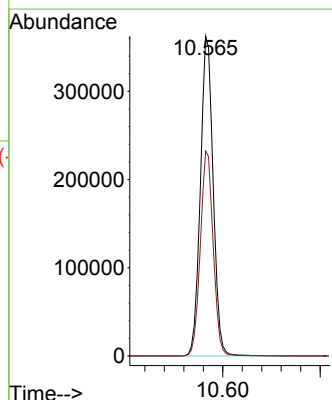
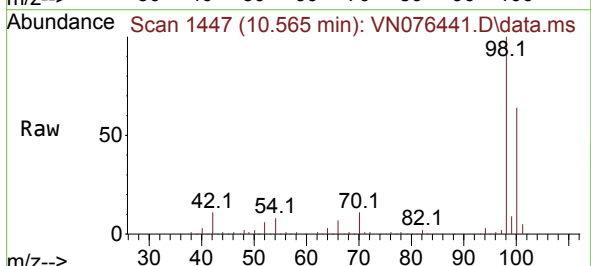
Acq: 27 Jan 2023 15:58

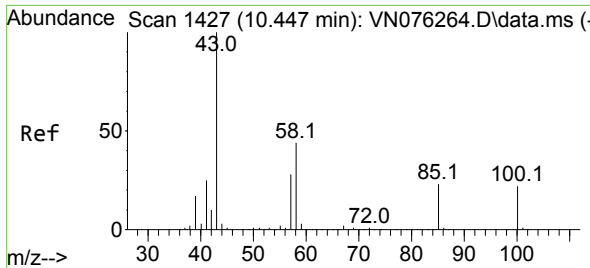
Tgt Ion: 98 Resp: 660973

Ion Ratio Lower Upper

98 100

100 64.6 52.2 78.4

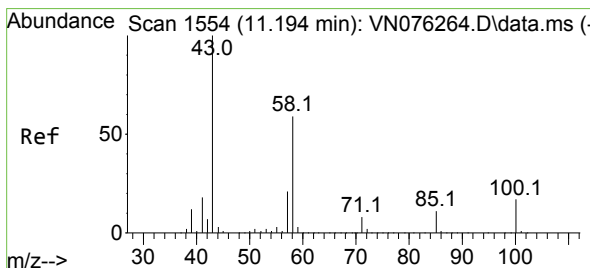
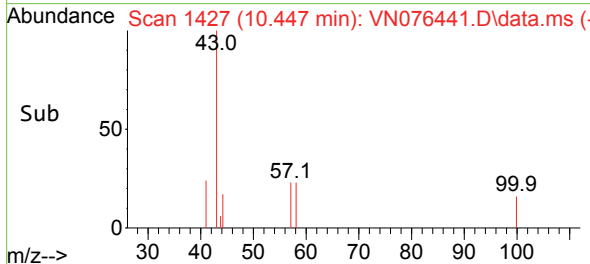
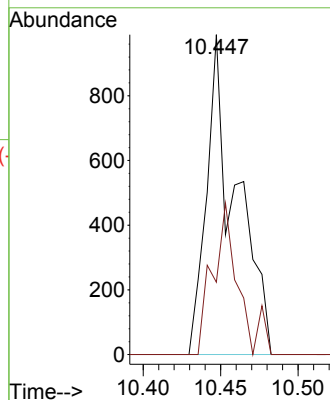
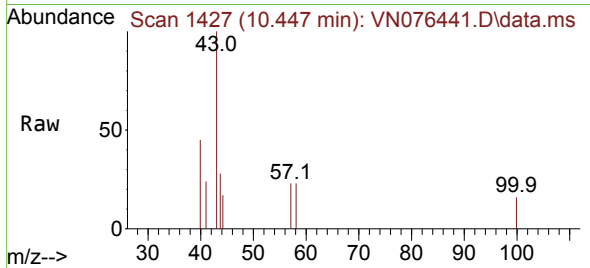




#51
4-Methyl-2-Pentanone
Concen: 0.335 ug/l
RT: 10.447 min Scan# 1427
Delta R.T. 0.000 min
Lab File: VN076441.D
Acq: 27 Jan 2023 15:58

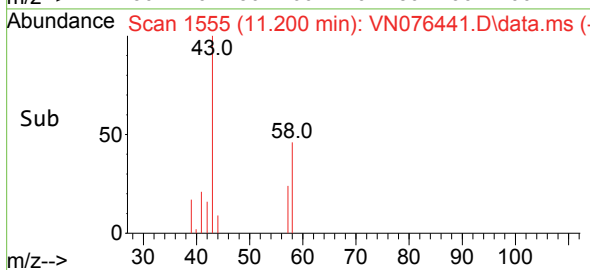
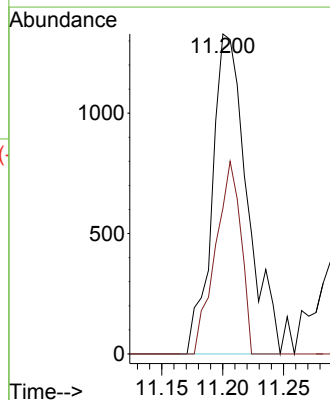
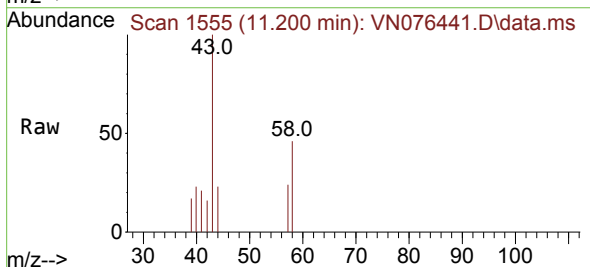
Instrument :
MSVOA_N
ClientSampleId :
TOTAL-VOC-7-BORING-2-14-21-GRAB-8

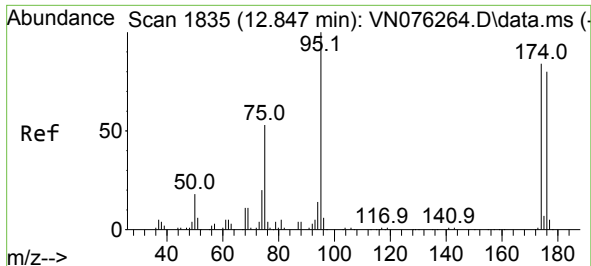
Tgt Ion: 43 Resp: 1304
Ion Ratio Lower Upper
43 100
58 41.3 35.1 52.7



#59
2-Hexanone
Concen: 0.941 ug/l
RT: 11.200 min Scan# 1555
Delta R.T. 0.006 min
Lab File: VN076441.D
Acq: 27 Jan 2023 15:58

Tgt Ion: 43 Resp: 2650
Ion Ratio Lower Upper
43 100
58 43.8 30.1 90.3

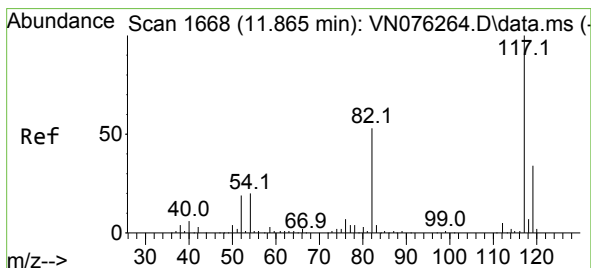
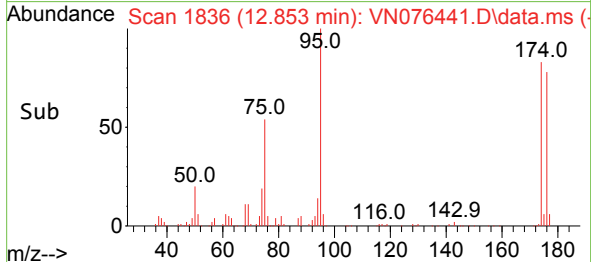
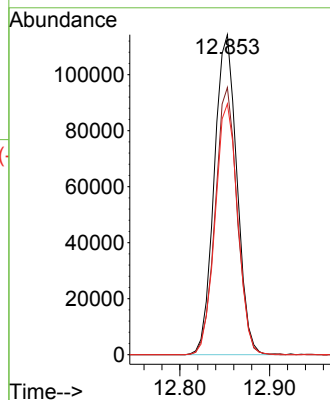
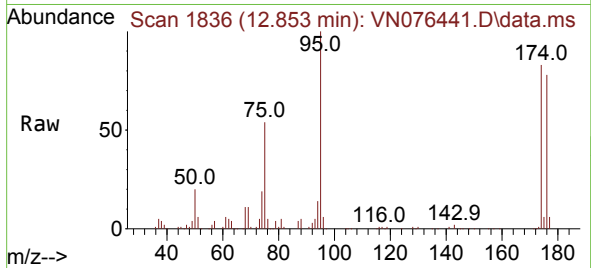




#62
4-Bromofluorobenzene
Concen: 46.478 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.006 min
Lab File: VN076441.D
Acq: 27 Jan 2023 15:58

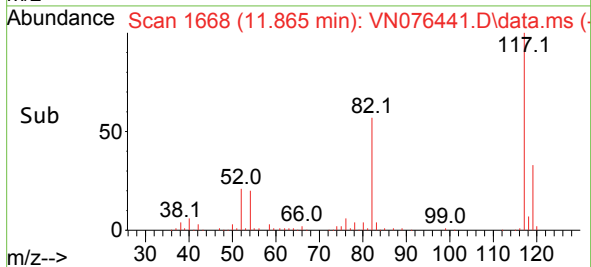
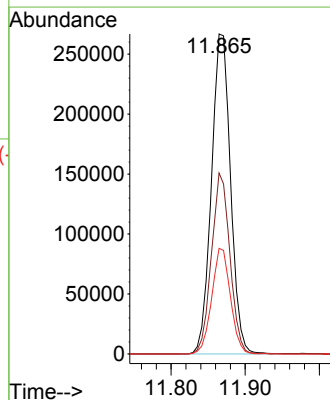
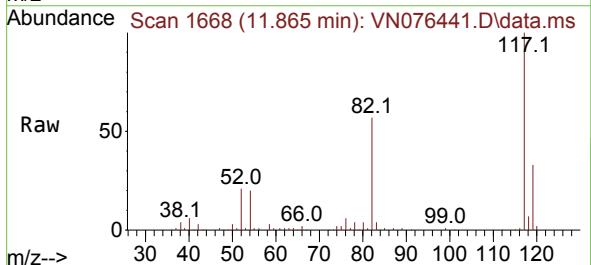
Instrument : MSVOA_N
ClientSampleId : TOTAL-VOC-7-BORING-2-14-21-GRAB-8

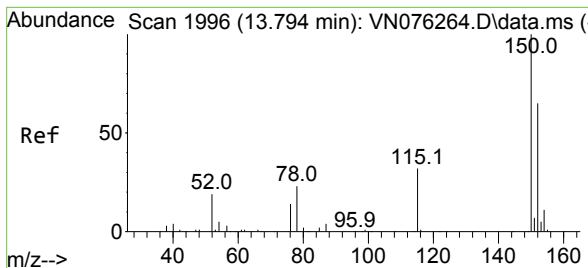
Tgt Ion: 95 Resp: 200158
Ion Ratio Lower Upper
95 100
174 81.1 0.0 174.6
176 78.1 0.0 167.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1668
Delta R.T. -0.000 min
Lab File: VN076441.D
Acq: 27 Jan 2023 15:58

Tgt Ion: 117 Resp: 478560
Ion Ratio Lower Upper
117 100
82 56.6 42.2 63.2
119 33.0 26.9 40.3

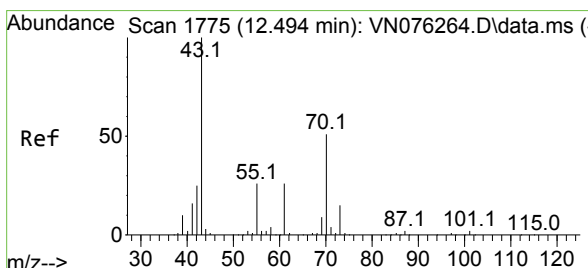
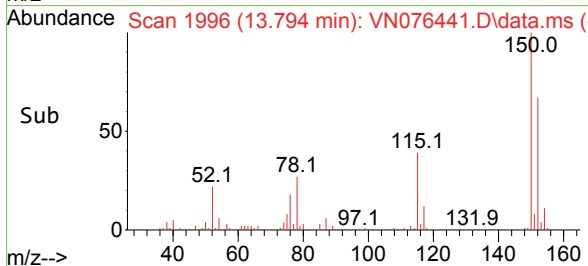
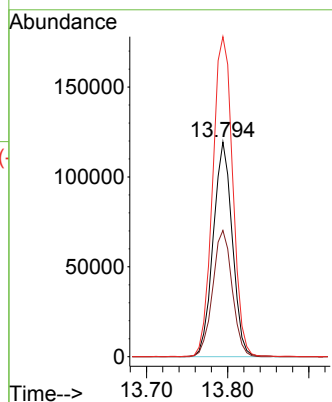
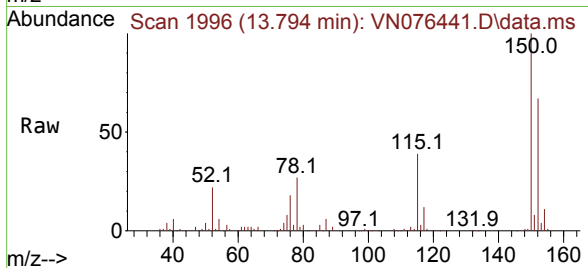




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 1996
Delta R.T. 0.000 min
Lab File: VN076441.D
Acq: 27 Jan 2023 15:58

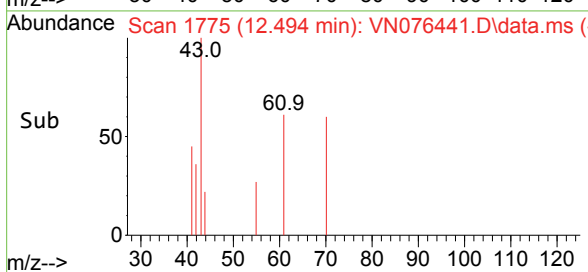
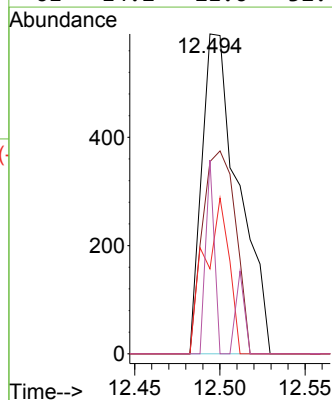
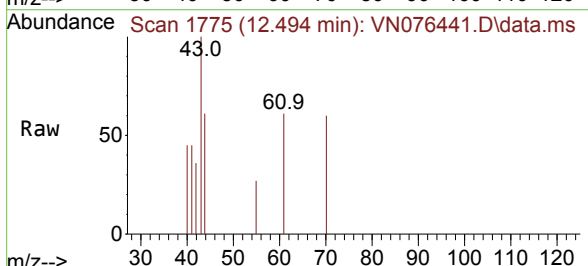
Instrument : MSVOA_N
ClientSampleId : TOTAL-VOC-7-BORING-2-14-21-GRAB-8

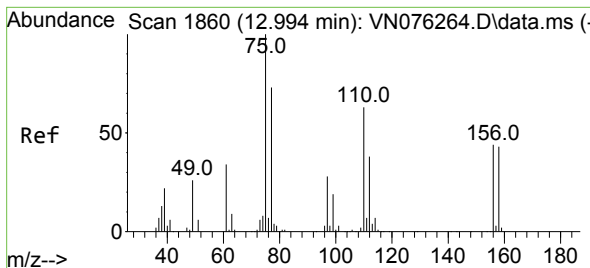
Tgt Ion:152 Resp: 194831
Ion Ratio Lower Upper
152 100
115 60.1 29.6 88.9
150 156.6 0.0 351.4



#74
N-ethyl acetate
Concen: 0.204 ug/l
RT: 12.494 min Scan# 1775
Delta R.T. 0.000 min
Lab File: VN076441.D
Acq: 27 Jan 2023 15:58

Tgt Ion: 43 Resp: 885
Ion Ratio Lower Upper
43 100
70 57.3 41.2 61.8
55 32.4 21.0 31.6#
61 14.2 21.6 32.4#





#76

1,2,3-Trichloropropane

Concen: 29.806 ug/l

RT: 12.853 min Scan# 1836

Delta R.T. -0.141 min

Lab File: VN076441.D

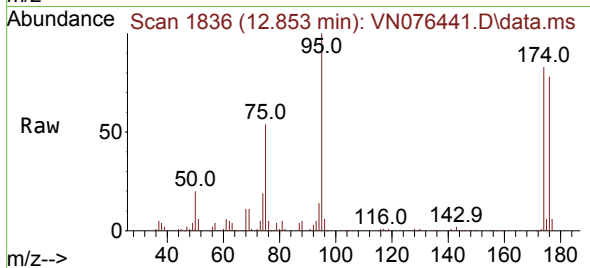
Acq: 27 Jan 2023 15:58

Instrument :

MSVOA_N

ClientSampleId :

TOTAL-VOC-7-BORING-2-14-21-GRAB-8

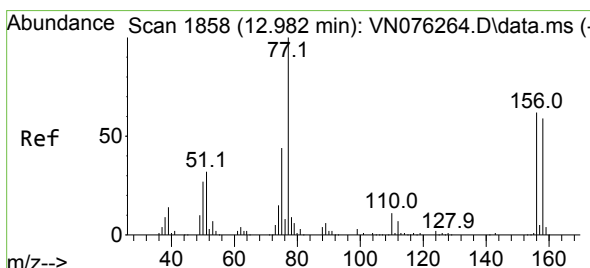
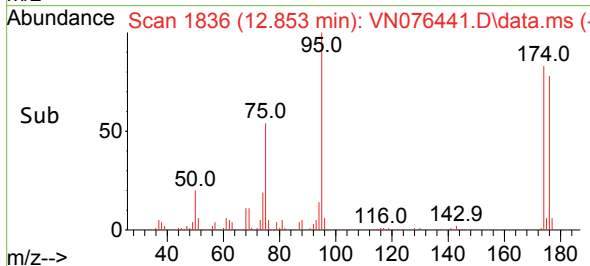
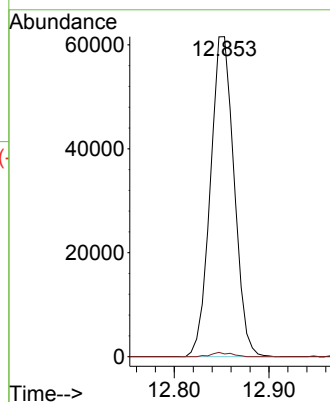


Tgt Ion: 75 Resp: 107151

Ion Ratio Lower Upper

75 100

77 1.1 75.2 225.6#



#77

Bromobenzene

Concen: Below Cal

RT: 12.982 min Scan# 1858

Delta R.T. 0.000 min

Lab File: VN076441.D

Acq: 27 Jan 2023 15:58

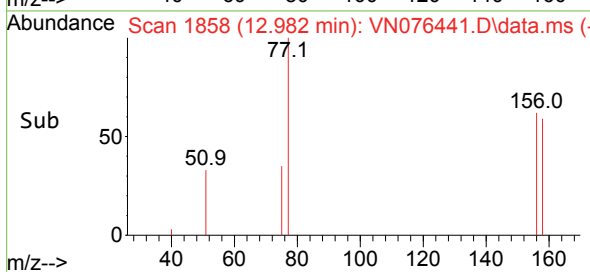
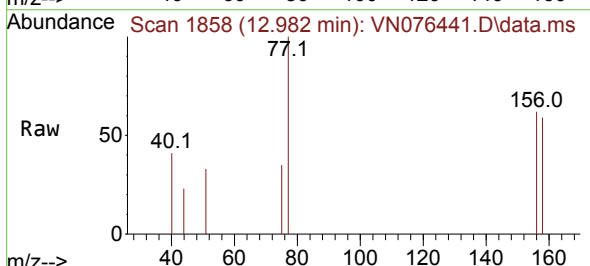
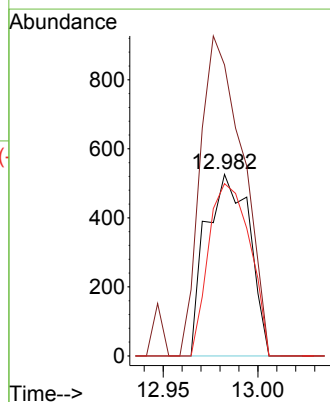
Tgt Ion:156 Resp: 842

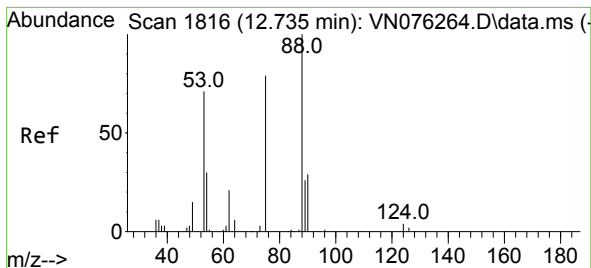
Ion Ratio Lower Upper

156 100

77 172.1 93.4 280.2

158 90.6 48.4 145.2

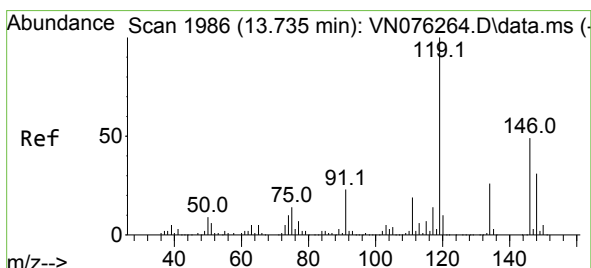
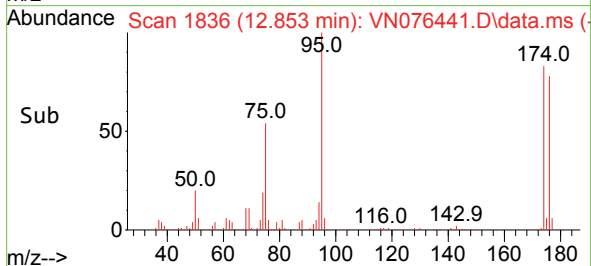
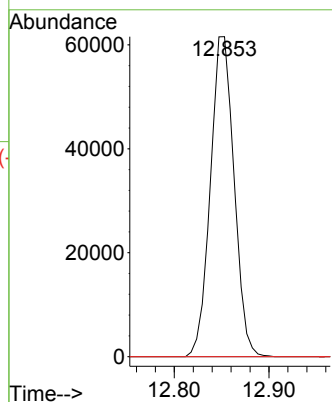
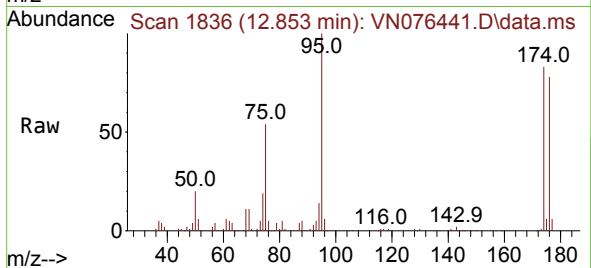




#81
trans-1,4-Dichloro-2-butene
Concen: 91.505 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.118 min
Lab File: VN076441.D
Acq: 27 Jan 2023 15:58

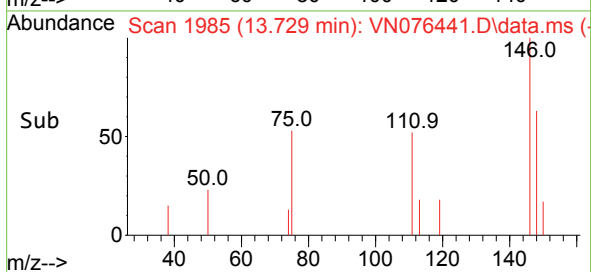
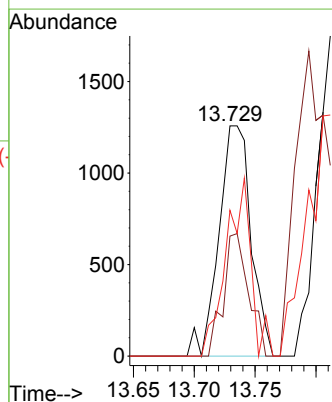
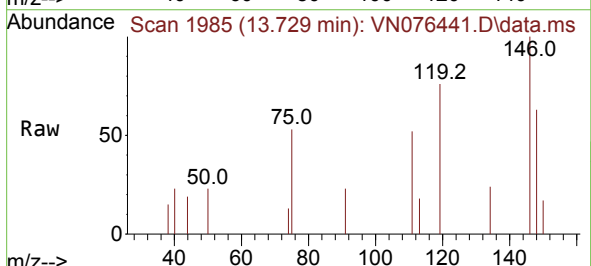
Instrument : MSVOA_N
ClientSampleId : TOTAL-VOC-7-BORING-2-14-21-GRAB-8

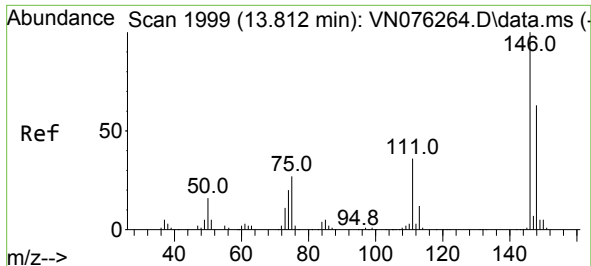
Tgt Ion: 75 Resp: 107151
Ion Ratio Lower Upper
75 100
53 0.0 75.8 113.8#
89 0.0 37.0 55.6#



#87
1,3-Dichlorobenzene
Concen: 0.325 ug/l
RT: 13.729 min Scan# 1985
Delta R.T. -0.006 min
Lab File: VN076441.D
Acq: 27 Jan 2023 15:58

Tgt Ion:146 Resp: 2311
Ion Ratio Lower Upper
146 100
111 41.8 19.9 59.7
148 60.3 31.6 94.8

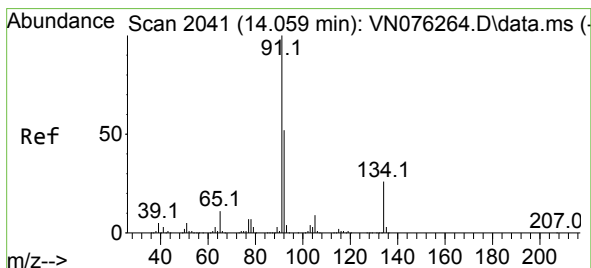
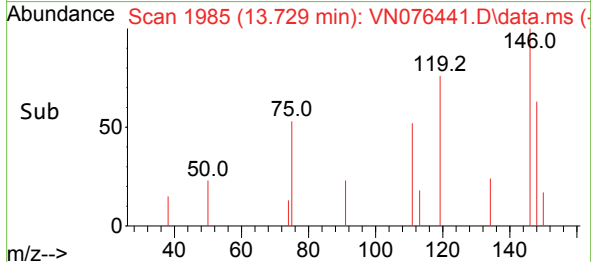
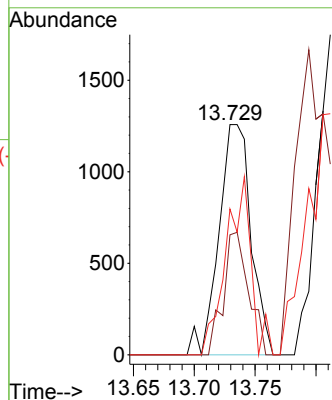
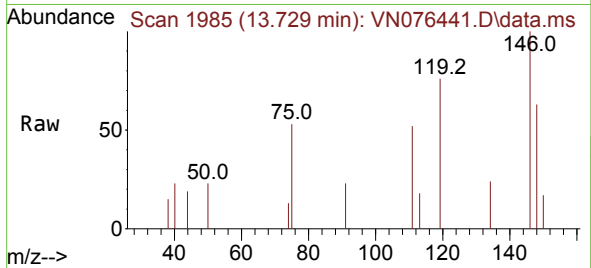




#88
1,4-Dichlorobenzene
Concen: 0.442 ug/l
RT: 13.729 min Scan# 1999
Delta R.T. -0.083 min
Lab File: VN076441.D
Acq: 27 Jan 2023 15:58

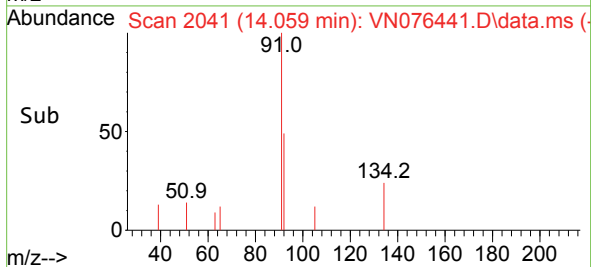
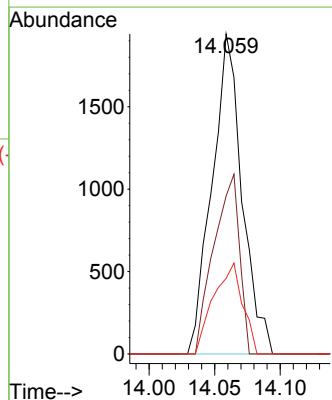
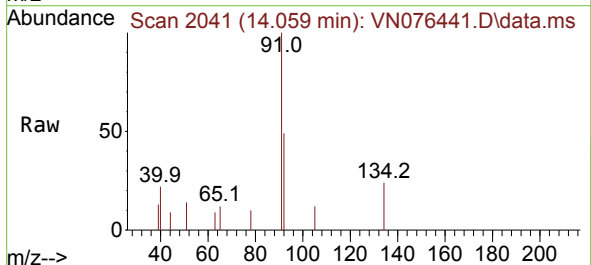
Instrument : MSVOA_N
ClientSampleId : TOTAL-VOC-7-BORING-2-14-21-GRAB-8

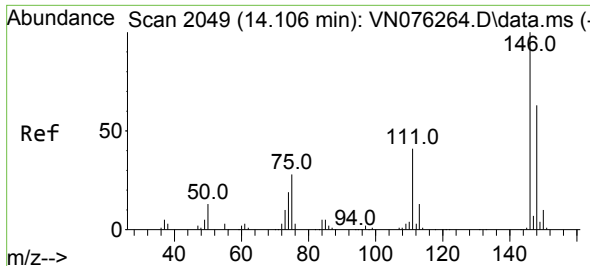
Tgt Ion:146	Resp:	2311
Ion	Ratio	Lower Upper
146	100	
111	41.8	19.1 57.5
148	60.3	31.9 95.9



#89
n-Butylbenzene
Concen: 0.304 ug/l
RT: 14.059 min Scan# 2041
Delta R.T. -0.000 min
Lab File: VN076441.D
Acq: 27 Jan 2023 15:58

Tgt Ion: 91	Resp:	3095
Ion	Ratio	Lower Upper
91	100	
92	47.9	26.3 78.9
134	27.5	13.2 39.5

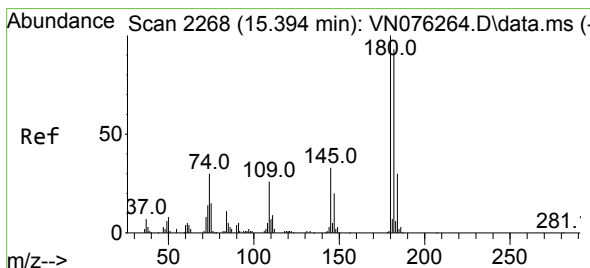
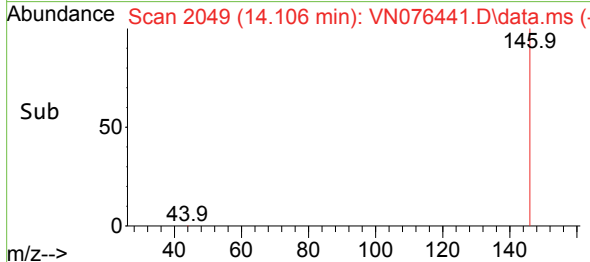
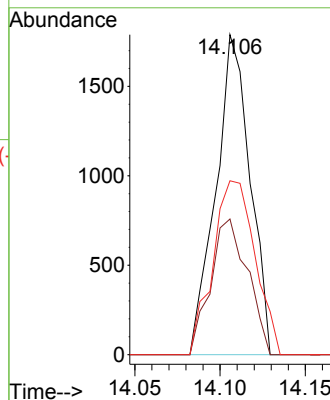
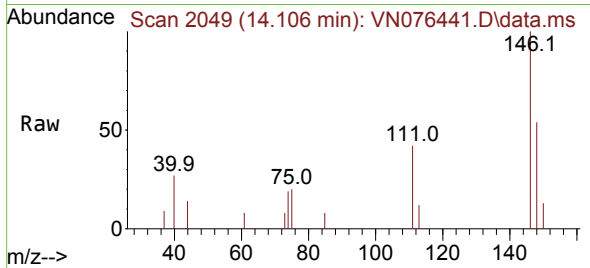




#91
1,2-Dichlorobenzene
Concen: 0.352 ug/l
RT: 14.106 min Scan# 2049
Delta R.T. -0.000 min
Lab File: VN076441.D
Acq: 27 Jan 2023 15:58

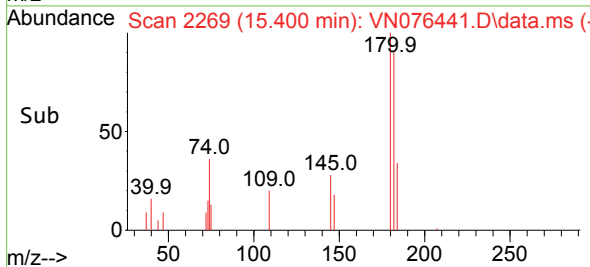
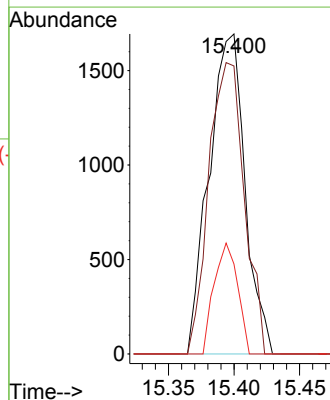
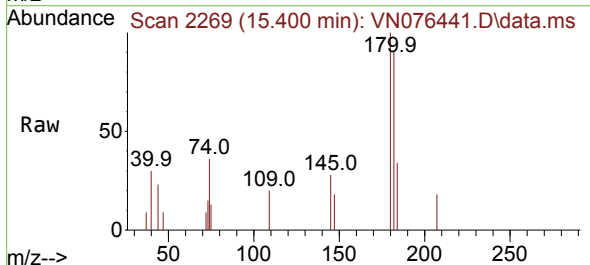
Instrument : MSVOA_N
ClientSampleId : TOTAL-VOC-7-BORING-2-14-21-GRAB-8

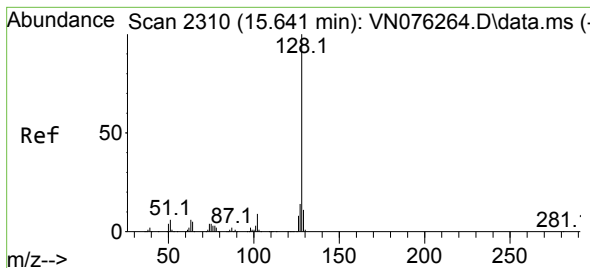
Tgt Ion:146	Resp:	2494
Ion Ratio	Lower	Upper
146	100	
111	45.9	20.3 60.8
148	67.1	31.8 95.4



#93
1,2,4-Trichlorobenzene
Concen: 2.226 ug/l
RT: 15.400 min Scan# 2269
Delta R.T. 0.006 min
Lab File: VN076441.D
Acq: 27 Jan 2023 15:58

Tgt Ion:180	Resp:	3232
Ion Ratio	Lower	Upper
180	100	
182	89.7	47.0 141.2
145	22.6	15.2 45.5





#95

Naphthalene

Concen: 3.201 ug/l

RT: 15.641 min Scan# 21

Delta R.T. 0.000 min

Lab File: VN076441.D

Acq: 27 Jan 2023 15:58

Instrument :

MSVOA_N

ClientSampleId :

TOTAL-VOC-7-BORING-2-14-21-GRAB-8

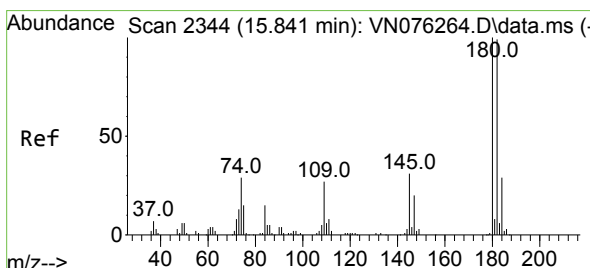
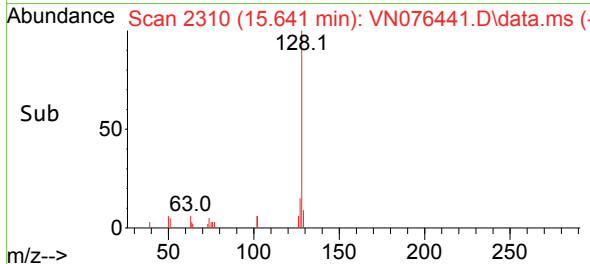
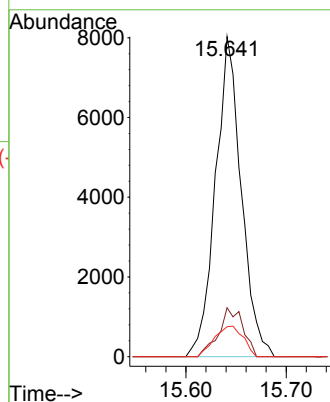
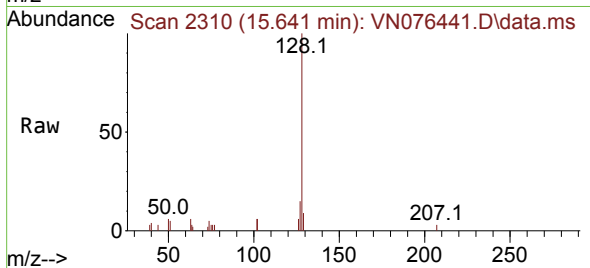
Tgt Ion:128 Resp: 14319

Ion Ratio Lower Upper

128 100

127 14.4 10.3 15.5

129 10.6 8.6 13.0



#96

1,2,3-Trichlorobenzene

Concen: 2.205 ug/l

RT: 15.841 min Scan# 2344

Delta R.T. 0.000 min

Lab File: VN076441.D

Acq: 27 Jan 2023 15:58

Tgt Ion:180 Resp: 3507

Ion Ratio Lower Upper

180 100

182 110.9 47.5 142.5

145 32.4 15.9 47.6

