

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY061423\
 Data File : VY014163.D
 Acq On : 14 Jun 2023 19:00
 Operator : KP/MD
 Sample : 03223-05
 Misc : 4.96g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TOTAL-VOC-SB-04-GRAB-6

Quant Time: Jun 15 01:45:47 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060923S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 09 18:07:13 2023
 Response via : Initial Calibration

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

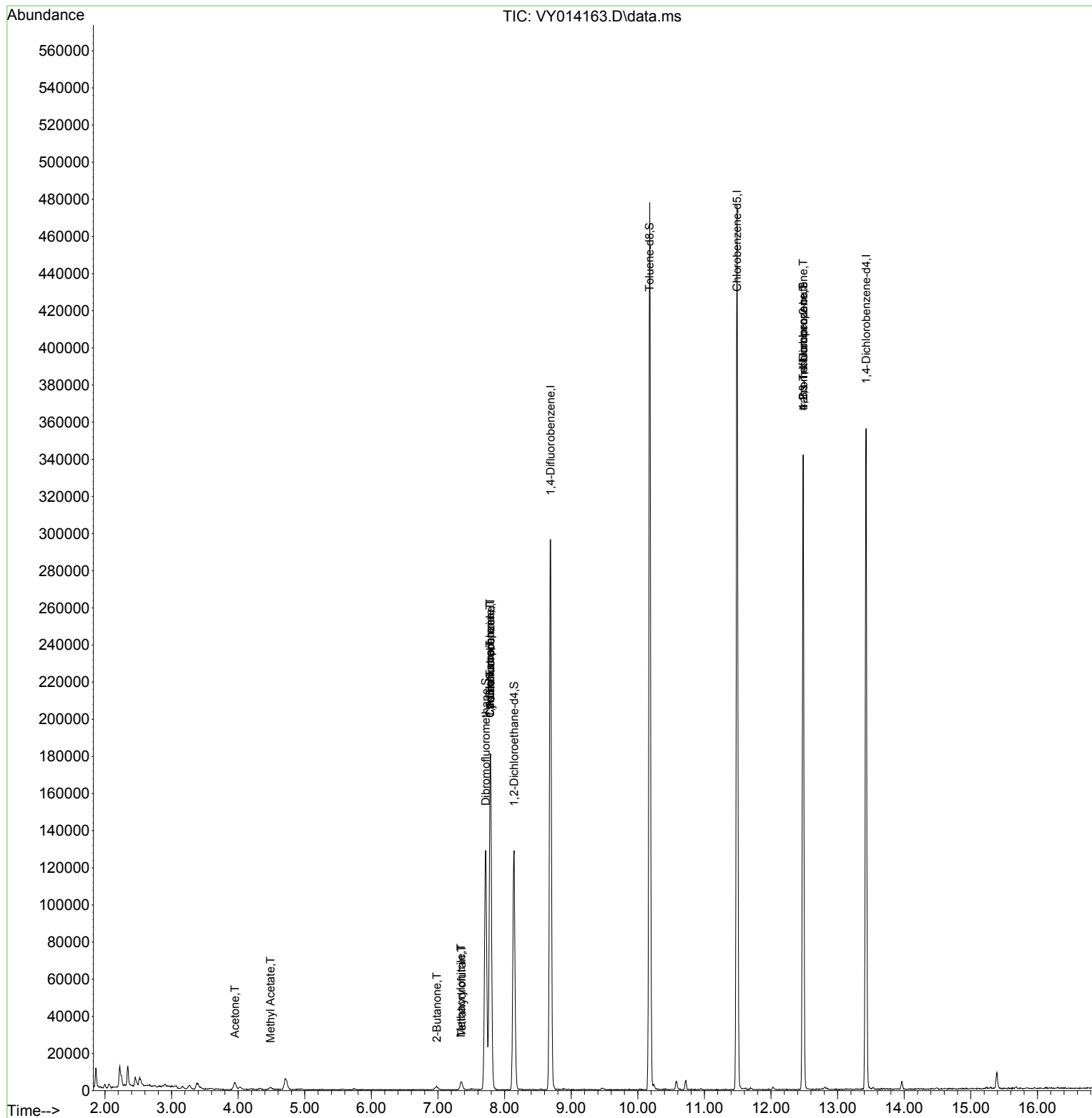
Internal Standards						
1) Pentafluorobenzene	7.789	168	145256	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	251839	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	246633	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	90356	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.142	65	105967	52.389	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 104.780%	
35) Dibromofluoromethane	7.716	113	87451	48.965	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 97.940%	
50) Toluene-d8	10.179	98	310227	46.462	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 92.920%	
62) 4-Bromofluorobenzene	12.483	95	93336	39.351	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 78.700%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.954	59	453	Below Cal	#	89
16) Acetone	3.954	43	7251	11.893	ug/l	94
18) Methyl Acetate	4.485	43	2533	1.070	ug/l #	82
20) Methylene Chloride	4.716	84	4473	Below Cal		87
25) 2-Butanone	6.984	43	800	1.066	ug/l #	86
29) Tetrahydrofuran	7.356	42	3420	7.186	ug/l	95
31) Cyclohexane	7.783	56	3411	1.259	ug/l #	38
36) 1,1-Dichloropropene	7.783	75	10877	3.906	ug/l #	51
38) Carbon Tetrachloride	7.783	117	14697	4.574	ug/l #	16
41) Methacrylonitrile	7.344	41	2167	2.210	ug/l #	45
76) 1,2,3-Trichloropropane	12.483	75	52059	43.915	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.483	75	52059	94.927	ug/l #	11

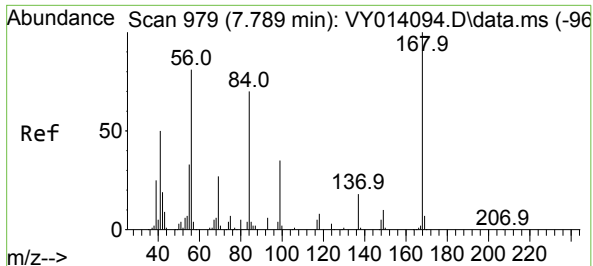
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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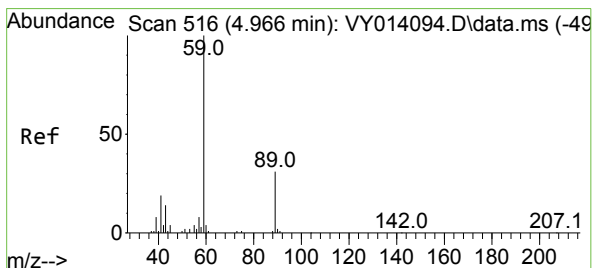
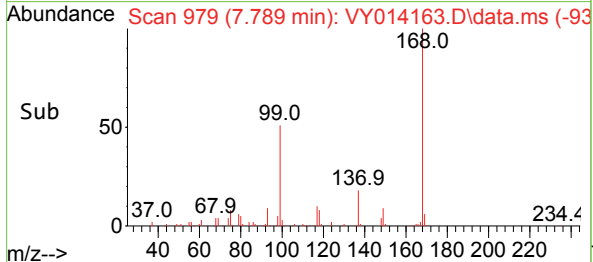
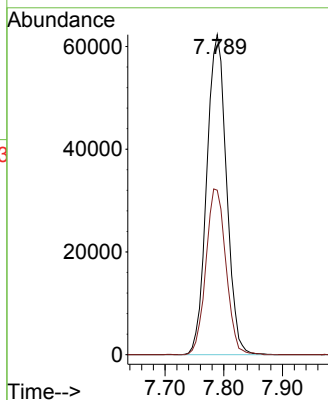
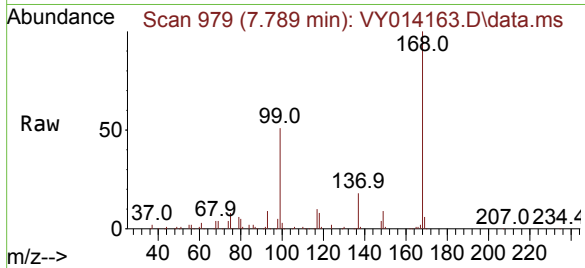




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY014163.D
Acq: 14 Jun 2023 19:00

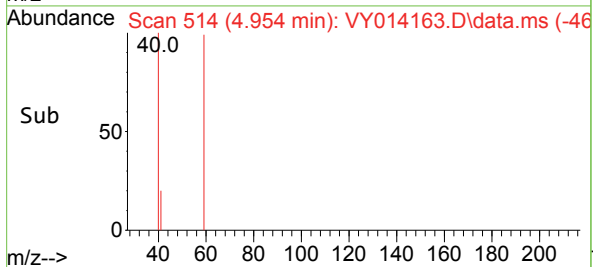
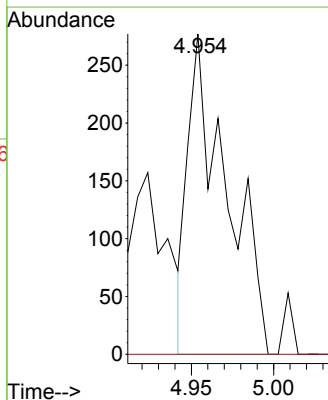
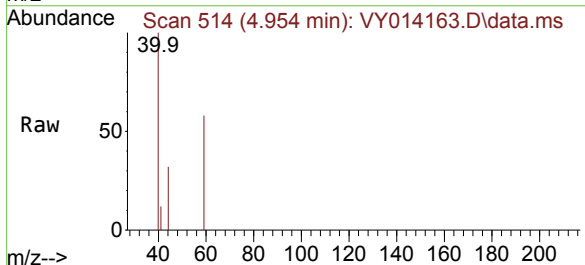
Instrument :
MSVOA_Y
ClientSampleId :
TOTAL-VOC-SB-04-GRAB-6

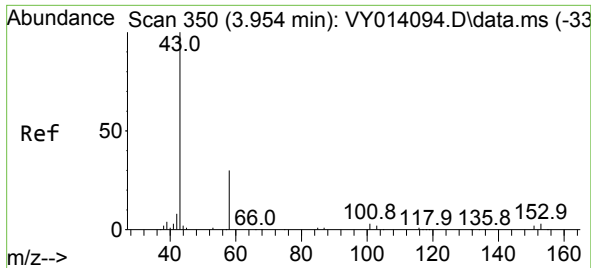
Tgt Ion:168 Resp: 145256
Ion Ratio Lower Upper
168 100
99 51.4 43.4 65.0



#11
Tert butyl alcohol
Concen: Below Cal
RT: 4.954 min Scan# 514
Delta R.T. -0.012 min
Lab File: VY014163.D
Acq: 14 Jun 2023 19:00

Tgt Ion: 59 Resp: 453
Ion Ratio Lower Upper
59 100
57 0.0 3.0 4.4#

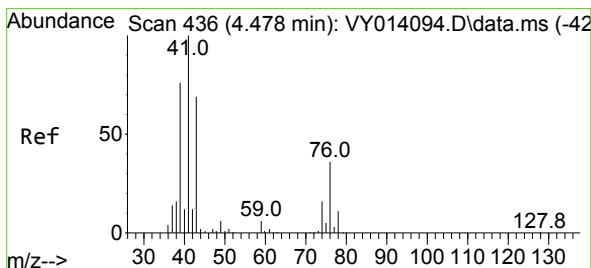
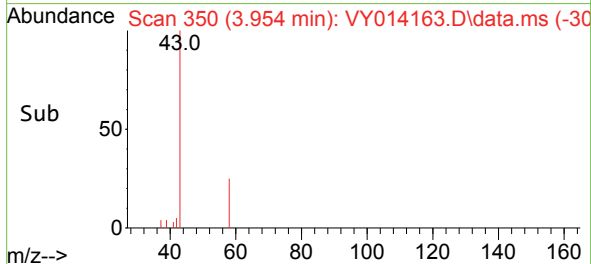
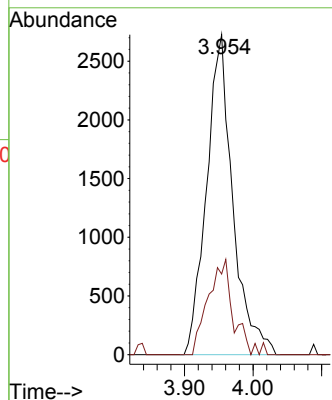
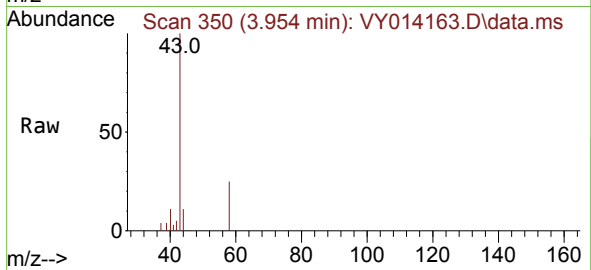




#16
Acetone
Concen: 11.893 ug/l
RT: 3.954 min Scan# 350
Delta R.T. 0.000 min
Lab File: VY014163.D
Acq: 14 Jun 2023 19:00

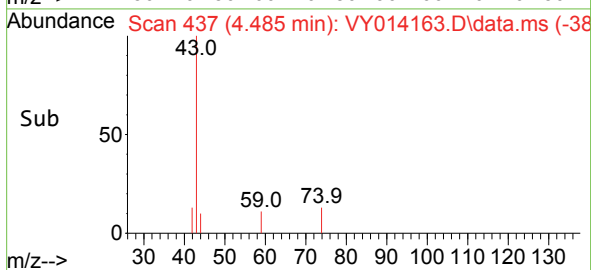
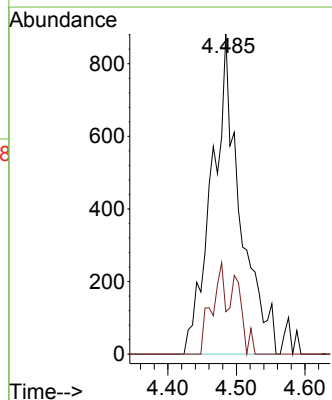
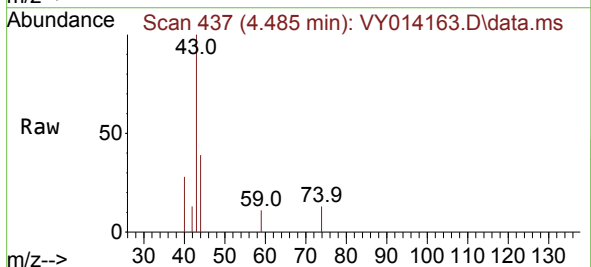
Instrument : MSVOA_Y
ClientSampleId : TOTAL-VOC-SB-04-GRAB-6

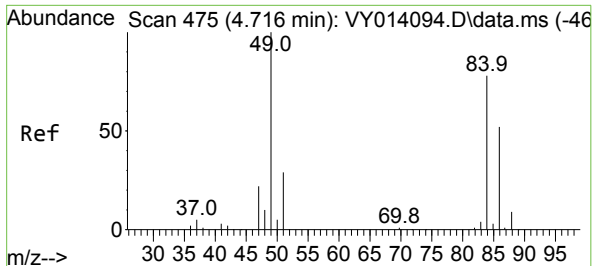
Tgt Ion: 43 Resp: 7251
Ion Ratio Lower Upper
43 100
58 25.2 22.7 34.1



#18
Methyl Acetate
Concen: 1.070 ug/l
RT: 4.485 min Scan# 437
Delta R.T. 0.007 min
Lab File: VY014163.D
Acq: 14 Jun 2023 19:00

Tgt Ion: 43 Resp: 2533
Ion Ratio Lower Upper
43 100
74 13.3 17.4 26.0#





#20

Methylene Chloride

Concen: Below Cal

RT: 4.716 min Scan# 41

Delta R.T. 0.000 min

Lab File: VY014163.D

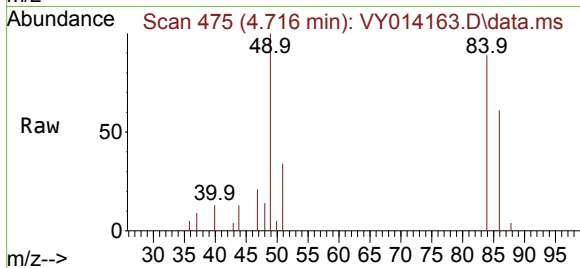
Acq: 14 Jun 2023 19:00

Instrument :

MSVOA_Y

ClientSampleId :

TOTAL-VOC-SB-04-GRAB-6



Tgt Ion: 84 Resp: 4473

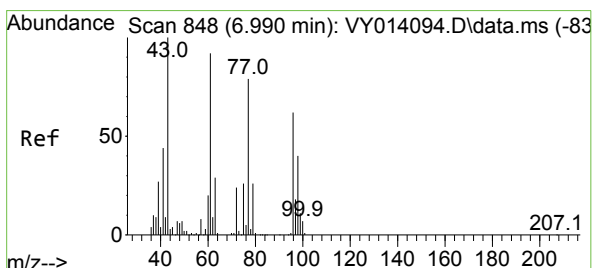
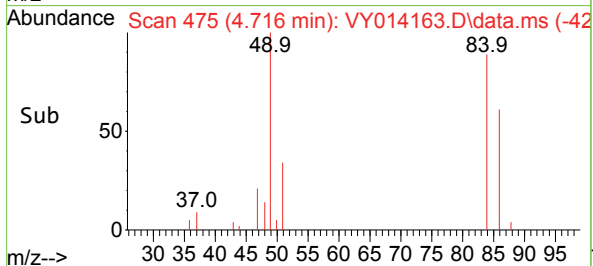
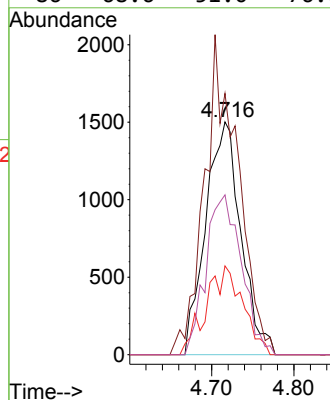
Ion Ratio Lower Upper

84 100

49 112.3 106.9 160.3

51 38.1 33.2 49.8

86 68.6 51.0 76.6



#25

2-Butanone

Concen: 1.066 ug/l

RT: 6.984 min Scan# 847

Delta R.T. -0.006 min

Lab File: VY014163.D

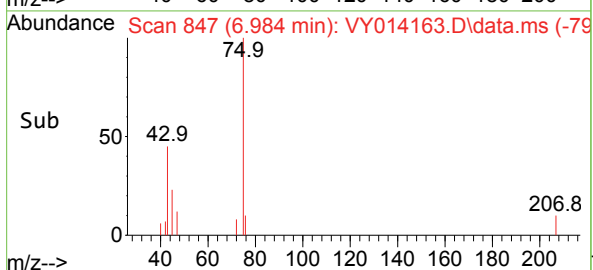
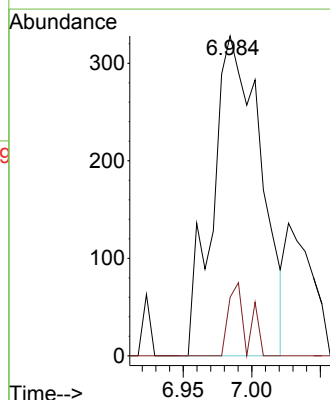
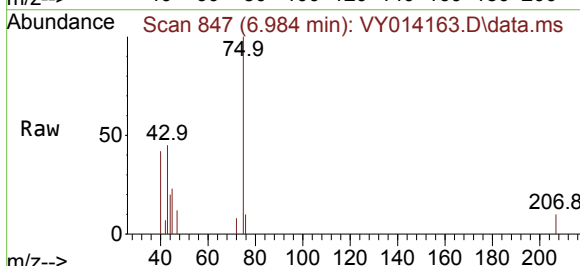
Acq: 14 Jun 2023 19:00

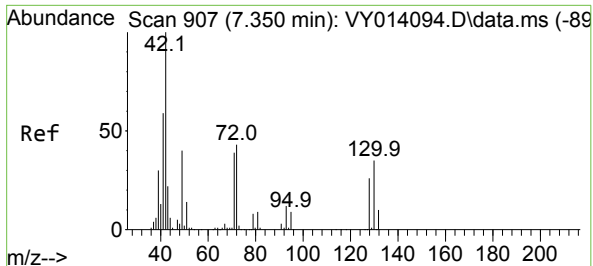
Tgt Ion: 43 Resp: 800

Ion Ratio Lower Upper

43 100

72 18.3 20.5 30.7#





#29

Tetrahydrofuran

Concen: 7.186 ug/l

RT: 7.356 min Scan# 907

Delta R.T. 0.006 min

Lab File: VY014163.D

Acq: 14 Jun 2023 19:00

Instrument :

MSVOA_Y

ClientSampleId :

TOTAL-VOC-SB-04-GRAB-6

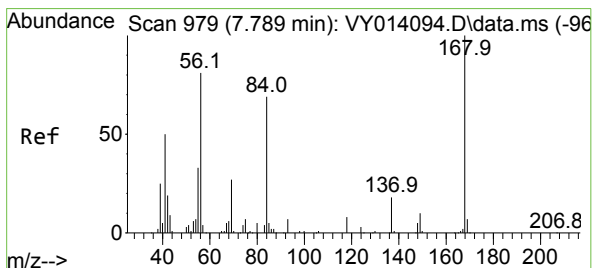
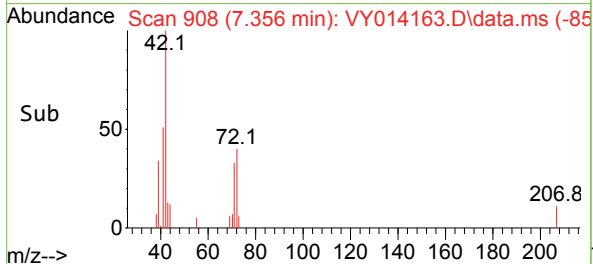
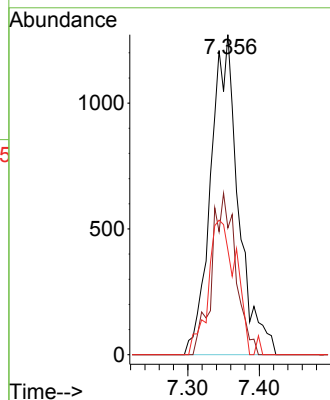
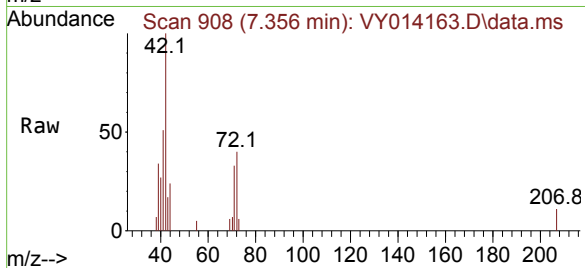
Tgt Ion: 42 Resp: 3420

Ion Ratio Lower Upper

42 100

72 43.7 32.8 49.2

71 41.9 31.0 46.4



#31

Cyclohexane

Concen: 1.259 ug/l

RT: 7.783 min Scan# 978

Delta R.T. -0.006 min

Lab File: VY014163.D

Acq: 14 Jun 2023 19:00

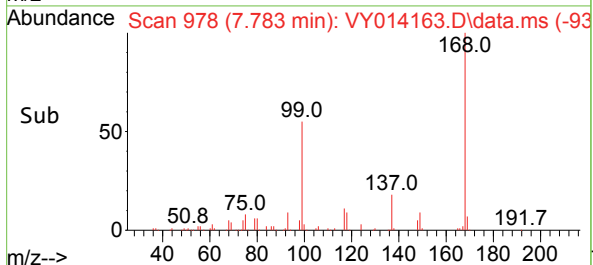
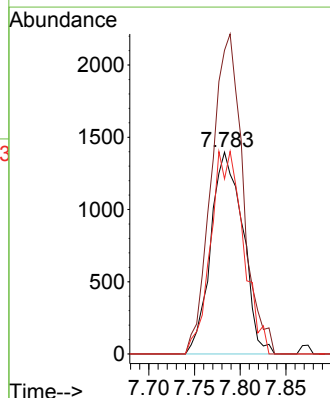
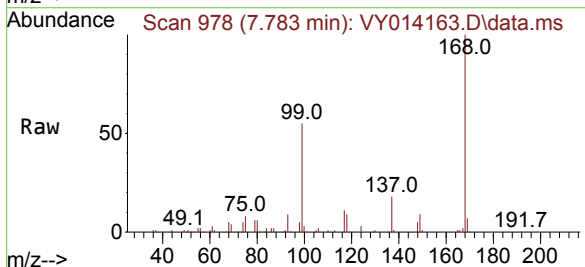
Tgt Ion: 56 Resp: 3411

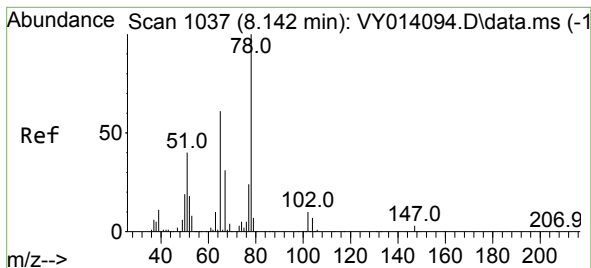
Ion Ratio Lower Upper

56 100

69 150.5 27.8 41.6#

84 86.8 66.4 99.6





#33

1,2-Dichloroethane-d4

Concen: 52.389 ug/l

RT: 8.142 min Scan# 1037

Delta R.T. 0.000 min

Lab File: VY014163.D

Acq: 14 Jun 2023 19:00

Instrument :

MSVOA_Y

ClientSampleId :

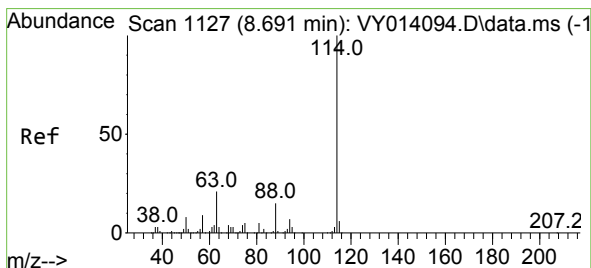
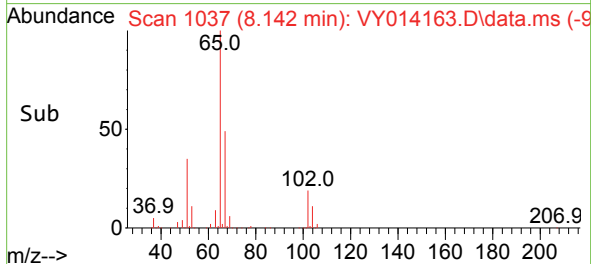
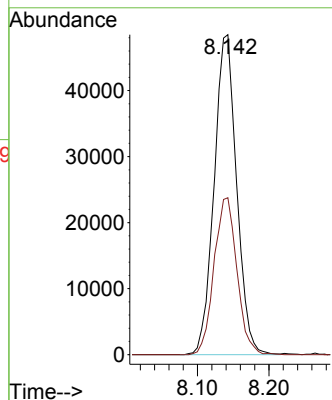
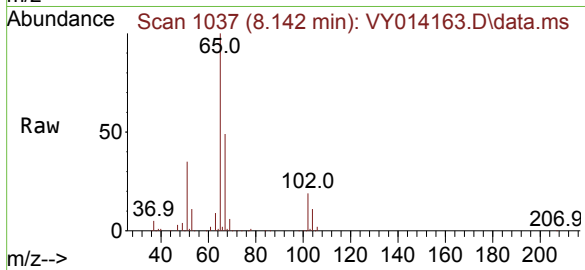
TOTAL-VOC-SB-04-GRAB-6

Tgt Ion: 65 Resp: 105967

Ion Ratio Lower Upper

65 100

67 49.9 0.0 101.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VY014163.D

Acq: 14 Jun 2023 19:00

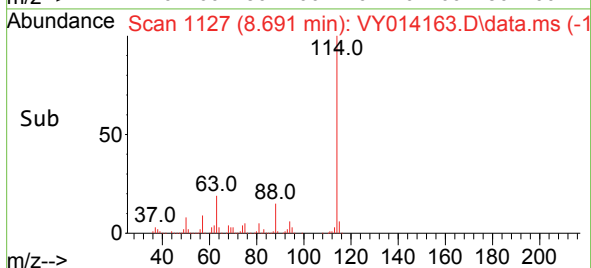
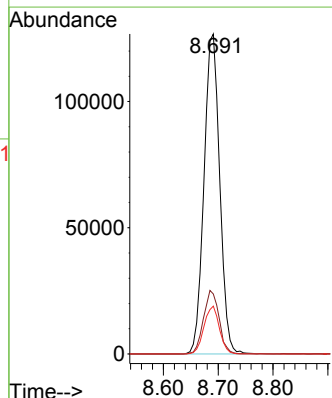
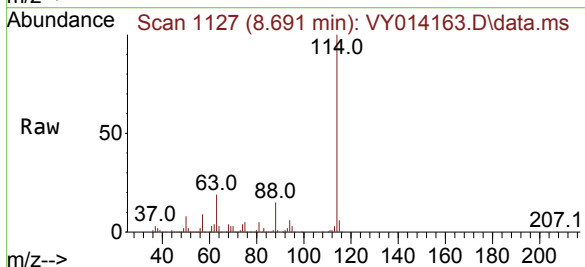
Tgt Ion: 114 Resp: 251839

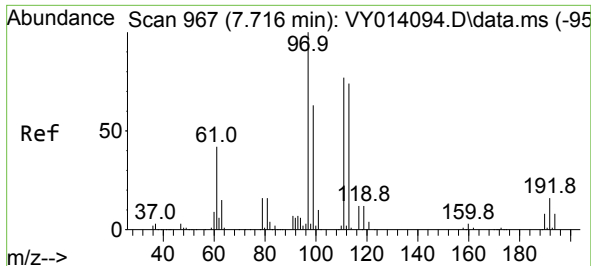
Ion Ratio Lower Upper

114 100

63 18.7 0.0 42.4

88 14.9 0.0 30.6

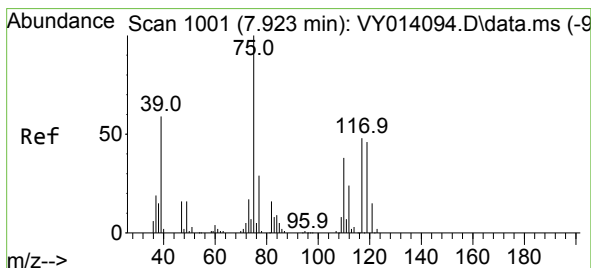
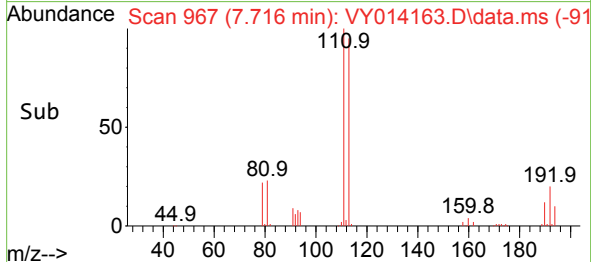
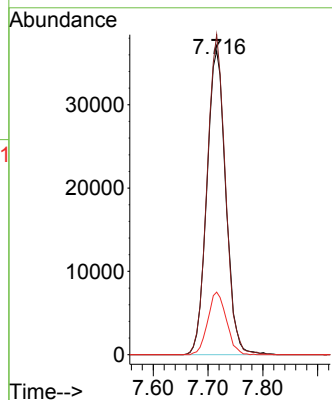
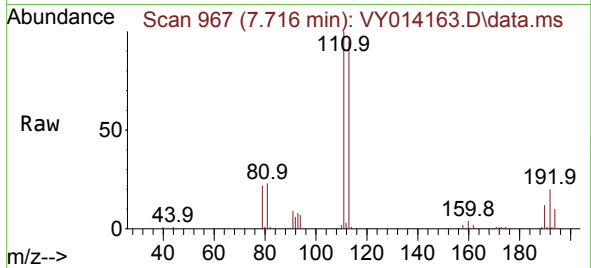




#35
Dibromofluoromethane
Concen: 48.965 ug/l
RT: 7.716 min Scan# 911
Delta R.T. -0.000 min
Lab File: VY014163.D
Acq: 14 Jun 2023 19:00

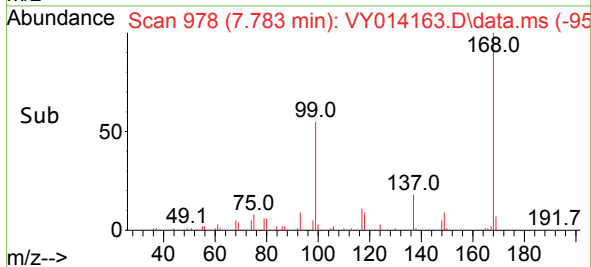
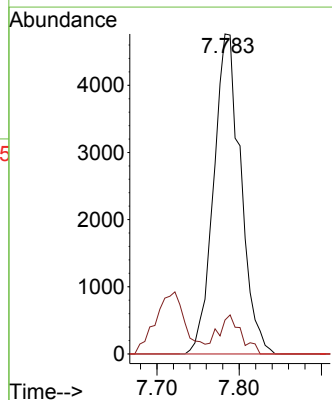
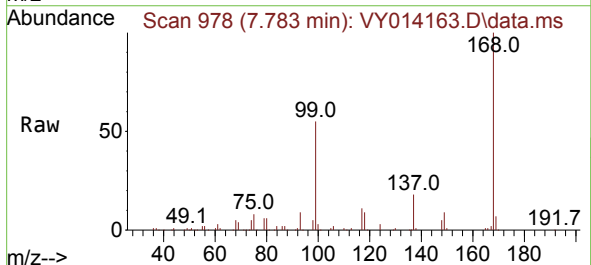
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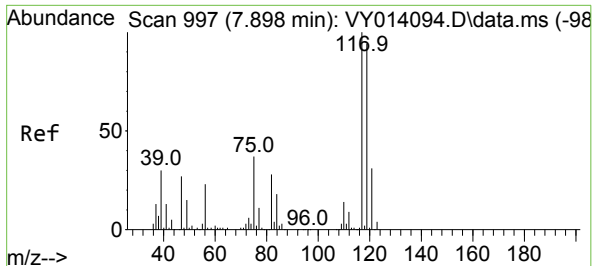
Tgt Ion:113 Resp: 87451
Ion Ratio Lower Upper
113 100
111 101.7 81.3 121.9
192 20.2 16.9 25.3



#36
1,1-Dichloropropene
Concen: 3.906 ug/l
RT: 7.783 min Scan# 978
Delta R.T. -0.140 min
Lab File: VY014163.D
Acq: 14 Jun 2023 19:00

Tgt Ion: 75 Resp: 10877
Ion Ratio Lower Upper
75 100
110 10.5 17.8 53.5#
77 0.0 24.4 36.6#

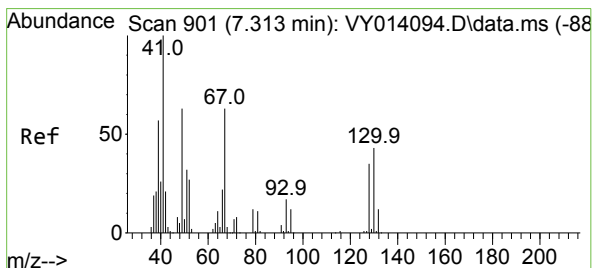
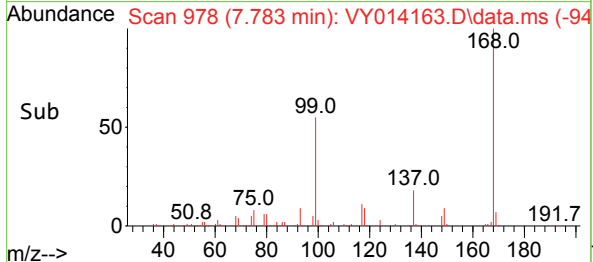
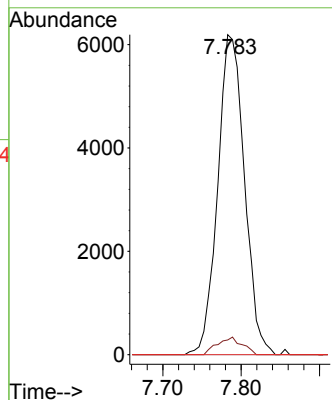
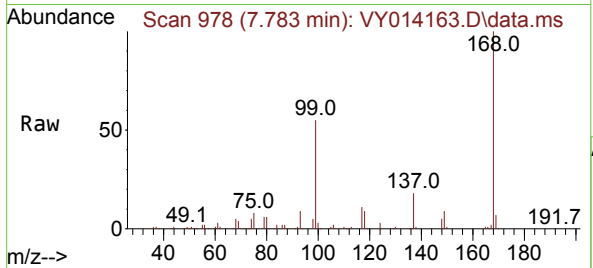




#38
Carbon Tetrachloride
Concen: 4.574 ug/l
RT: 7.783 min Scan# 911
Delta R.T. -0.115 min
Lab File: VY014163.D
Acq: 14 Jun 2023 19:00

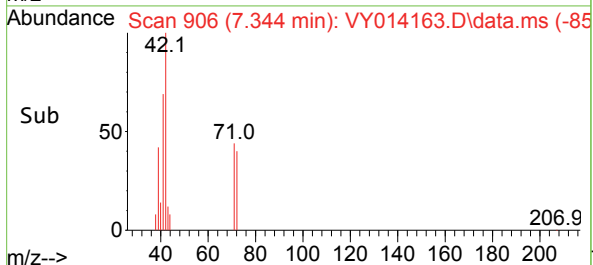
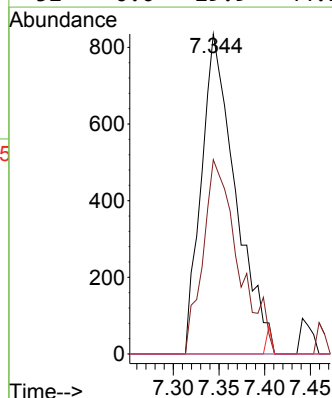
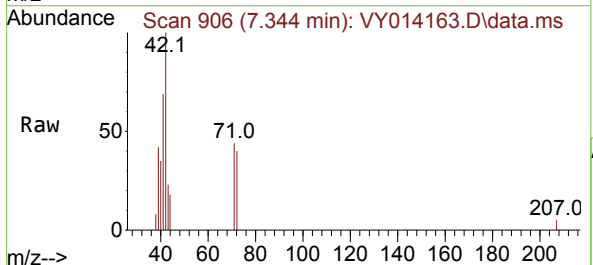
Instrument :
MSVOA_Y
ClientSampleId :
TOTAL-VOC-SB-04-GRAB-6

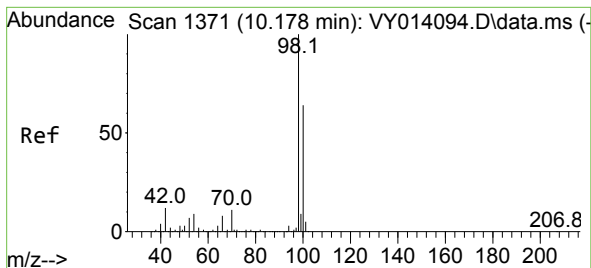
Tgt Ion:117 Resp: 14697
Ion Ratio Lower Upper
117 100
119 4.6 76.4 114.6#
121 0.0 25.8 38.6#



#41
Methacrylonitrile
Concen: 2.210 ug/l
RT: 7.344 min Scan# 906
Delta R.T. 0.031 min
Lab File: VY014163.D
Acq: 14 Jun 2023 19:00

Tgt Ion: 41 Resp: 2167
Ion Ratio Lower Upper
41 100
39 62.6 52.1 78.1
67 0.0 66.2 99.2#
52 0.0 29.9 44.9#

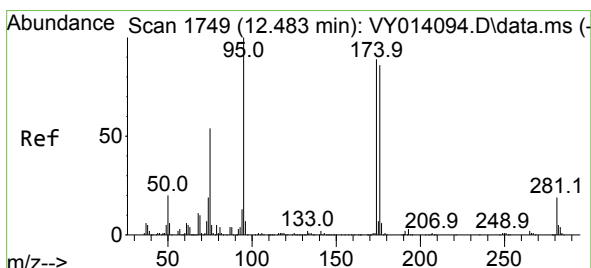
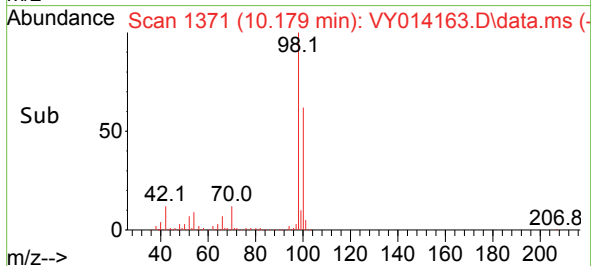
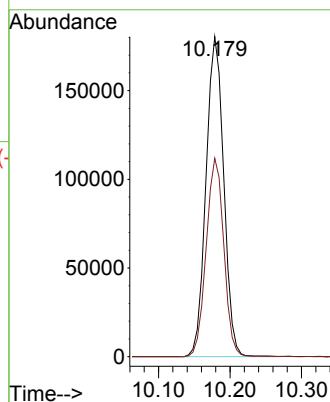
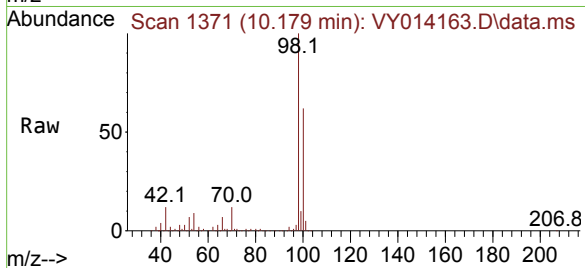




#50
Toluene-d8
Concen: 46.462 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. 0.001 min
Lab File: VY014163.D
Acq: 14 Jun 2023 19:00

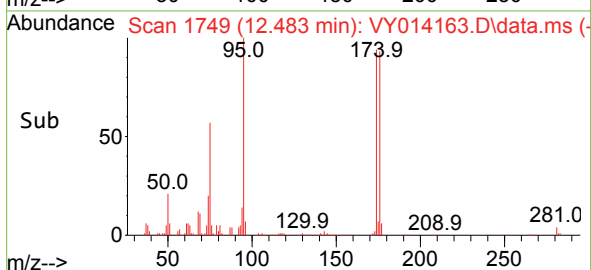
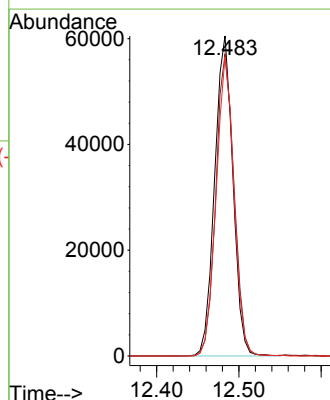
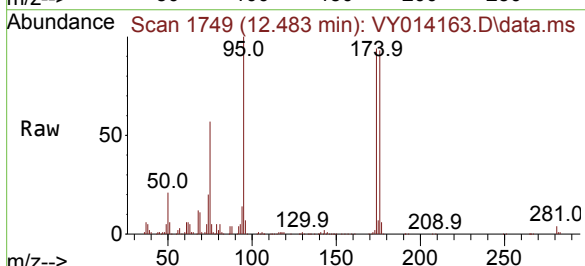
Instrument :
MSVOA_Y
ClientSampleId :
TOTAL-VOC-SB-04-GRAB-6

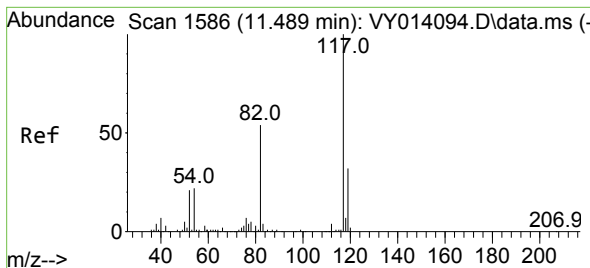
Tgt Ion: 98 Resp: 310227
Ion Ratio Lower Upper
98 100
100 61.7 50.1 75.1



#62
4-Bromofluorobenzene
Concen: 39.351 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VY014163.D
Acq: 14 Jun 2023 19:00

Tgt Ion: 95 Resp: 93336
Ion Ratio Lower Upper
95 100
174 94.4 0.0 178.2
176 91.5 0.0 173.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.489 min Scan# 1

Delta R.T. 0.000 min

Lab File: VY014163.D

Acq: 14 Jun 2023 19:00

Instrument :

MSVOA_Y

ClientSampleId :

TOTAL-VOC-SB-04-GRAB-6

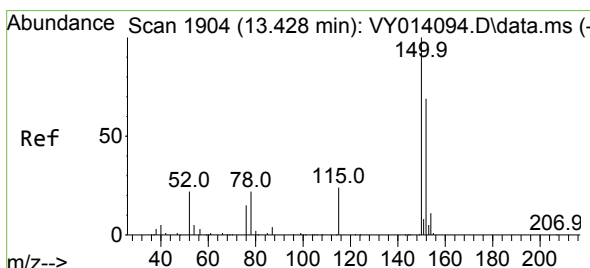
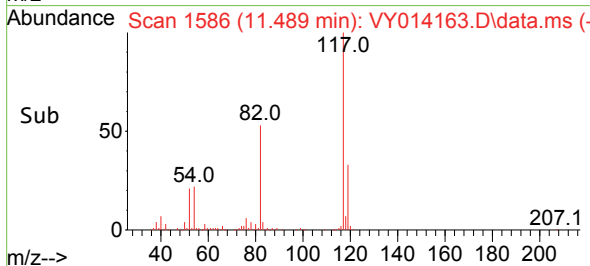
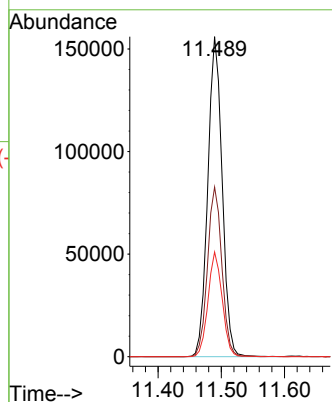
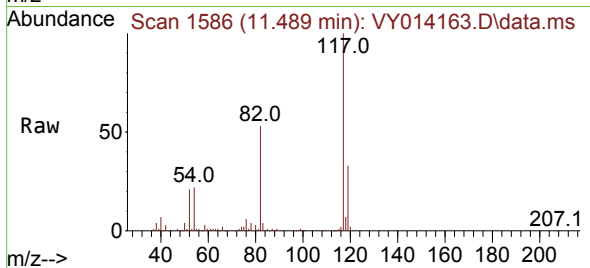
Tgt Ion:117 Resp: 246633

Ion Ratio Lower Upper

117 100

82 53.0 43.4 65.0

119 32.7 26.3 39.5



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.428 min Scan# 1904

Delta R.T. 0.000 min

Lab File: VY014163.D

Acq: 14 Jun 2023 19:00

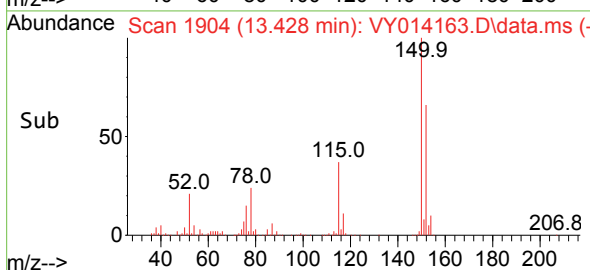
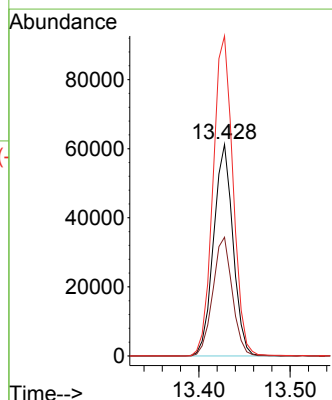
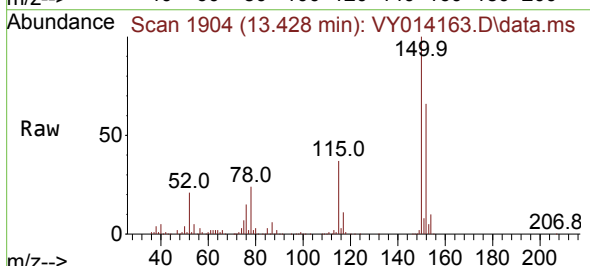
Tgt Ion:152 Resp: 90356

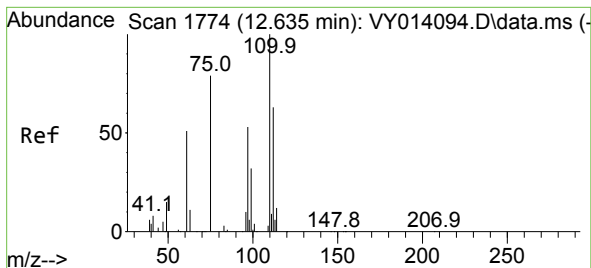
Ion Ratio Lower Upper

152 100

115 56.4 28.8 86.5

150 155.5 0.0 348.8





#76

1,2,3-Trichloropropane

Concen: 43.915 ug/l

RT: 12.483 min Scan# 1749

Delta R.T. -0.152 min

Lab File: VY014163.D

Acq: 14 Jun 2023 19:00

Instrument :

MSVOA_Y

ClientSampleId :

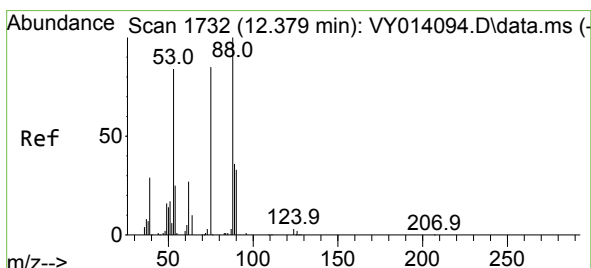
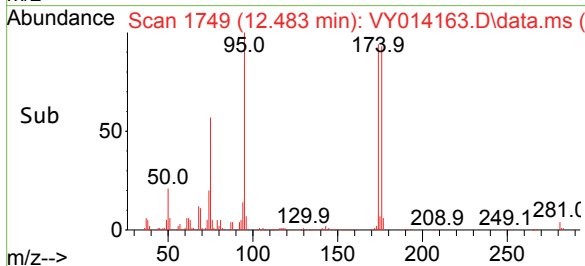
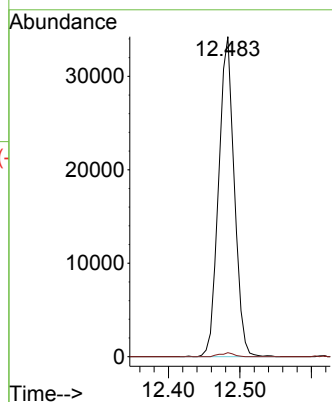
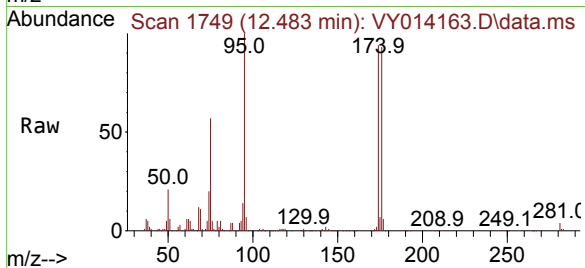
TOTAL-VOC-SB-04-GRAB-6

Tgt Ion: 75 Resp: 52059

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 94.927 ug/l

RT: 12.483 min Scan# 1749

Delta R.T. 0.104 min

Lab File: VY014163.D

Acq: 14 Jun 2023 19:00

Tgt Ion: 75 Resp: 52059

Ion Ratio Lower Upper

75 100

53 0.3 77.8 116.8#

89 0.0 37.4 56.0#

