

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY061423\
 Data File : VY014171.D
 Acq On : 14 Jun 2023 22:07
 Operator : KP/MD
 Sample : 03224-06
 Misc : 8.36g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TOTAL-VOC-SB-01/02-GRAB-5B1

Quant Time: Jun 15 01:48:48 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)

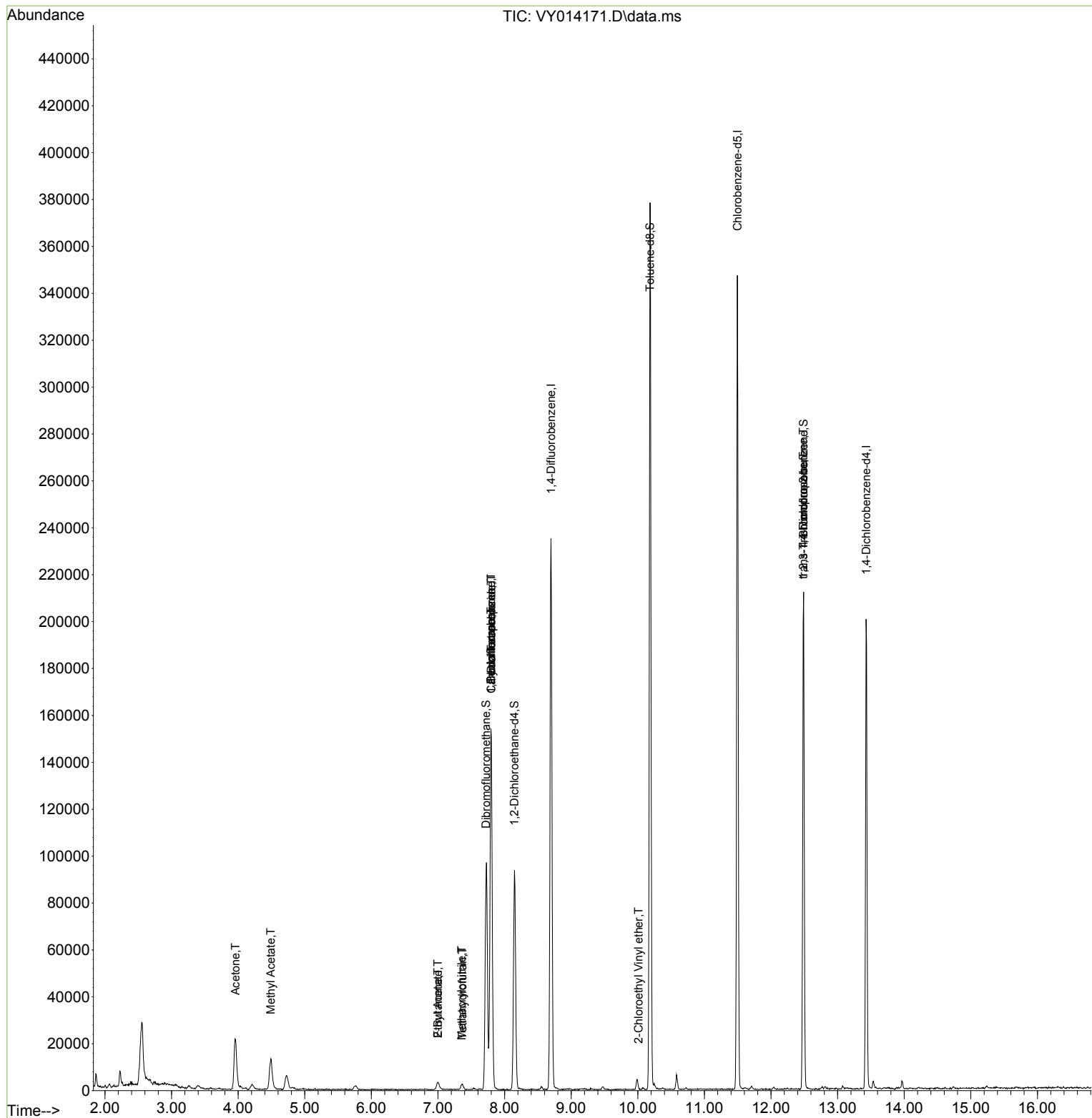
Internal Standards						
1) Pentafluorobenzene	7.795	168	119876	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.697	114	197364	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.496	117	176518	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	52135	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.149	65	77356	46.341	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	92.680%
35) Dibromofluoromethane	7.722	113	65559	46.839	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	93.680%
50) Toluene-d8	10.185	98	239510	45.771	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	91.540%
62) 4-Bromofluorobenzene	12.489	95	59381	31.945	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	63.900%
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.966	59	427	Below Cal	#	89
13) Acrolein	3.716	56	38	Below Cal	#	1
16) Acetone	3.960	43	39792	79.082	ug/l	95
18) Methyl Acetate	4.491	43	26644	13.642	ug/l	100
20) Methylene Chloride	4.735	84	4454	Below Cal	#	82
25) 2-Butanone	6.996	43	4754	7.675	ug/l	# 87
29) Tetrahydrofuran	7.368	42	1823	4.641	ug/l	98
31) Cyclohexane	7.795	56	2847	1.273	ug/l	# 1
36) 1,1-Dichloropropene	7.801	75	9313	4.268	ug/l	# 51
37) Ethyl Acetate	6.996	43	4754	3.158	ug/l	# 71
38) Carbon Tetrachloride	7.801	117	11628	4.618	ug/l	# 16
41) Methacrylonitrile	7.356	41	1224	1.593	ug/l	# 36
58) 2-Chloroethyl Vinyl ether	10.014	63	34	28.656	ug/l	# 48
76) 1,2,3-Trichloropropane	12.483	75	32439	47.426	ug/l	# 100
81) trans-1,4-Dichloro-2-b...	12.483	75	32439	102.516	ug/l	# 10

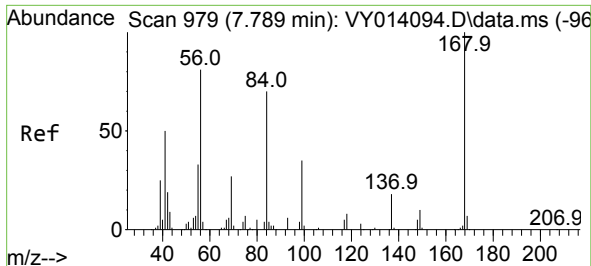
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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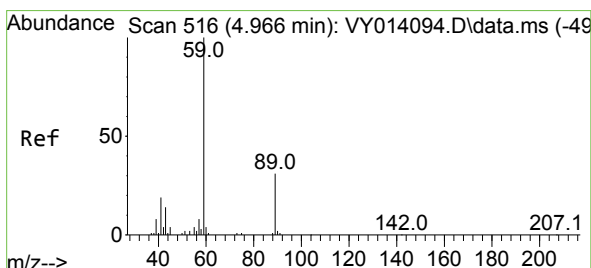
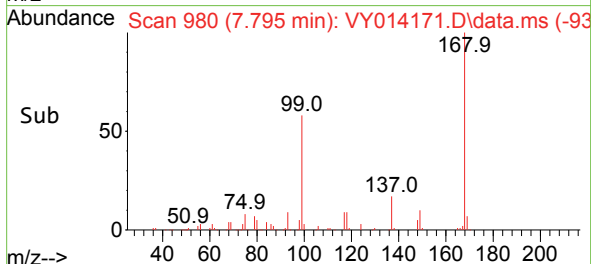
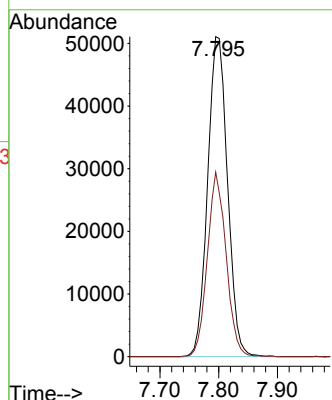
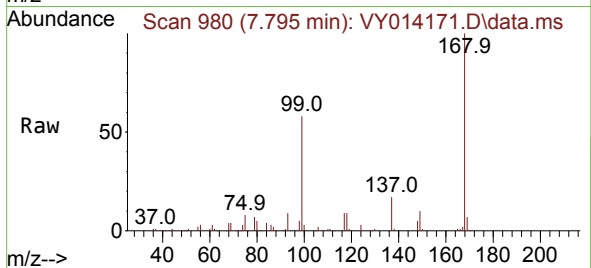




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.795 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY014171.D
Acq: 14 Jun 2023 22:07

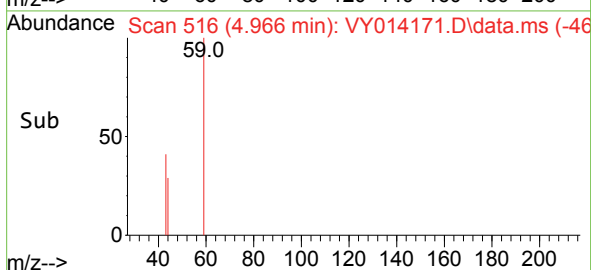
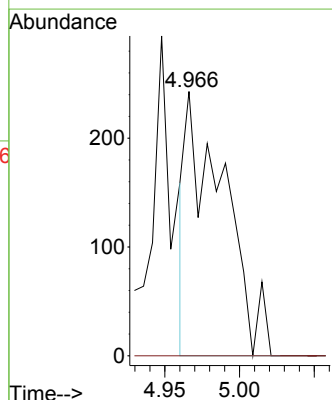
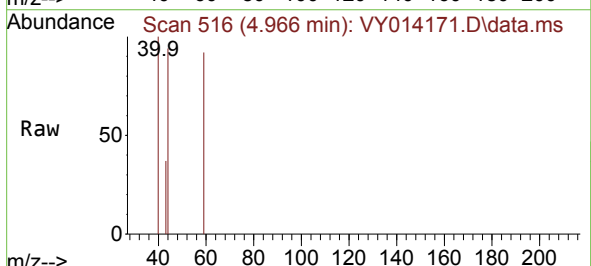
Instrument :
MSVOA_Y
ClientSampleId :
TOTAL-VOC-SB-01/02-GRAB-5B1

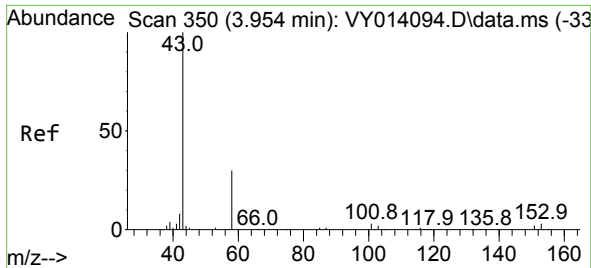
Tgt Ion:168 Resp: 119876
Ion Ratio Lower Upper
168 100
99 57.6 43.4 65.0



#11
Tert butyl alcohol
Concen: Below Cal
RT: 4.966 min Scan# 516
Delta R.T. 0.000 min
Lab File: VY014171.D
Acq: 14 Jun 2023 22:07

Tgt Ion: 59 Resp: 427
Ion Ratio Lower Upper
59 100
57 0.0 3.0 4.4#

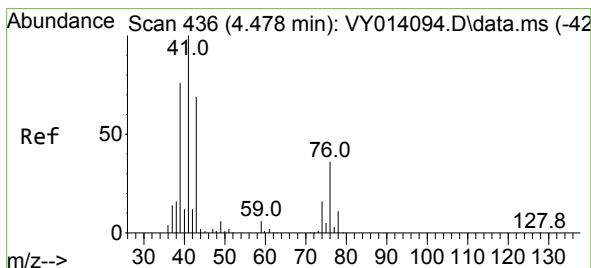
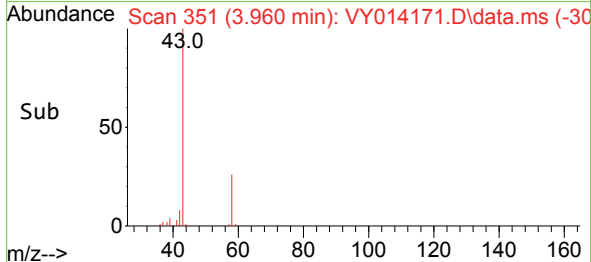
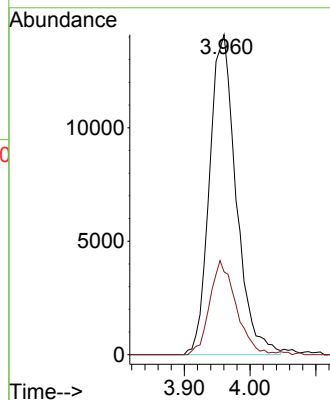
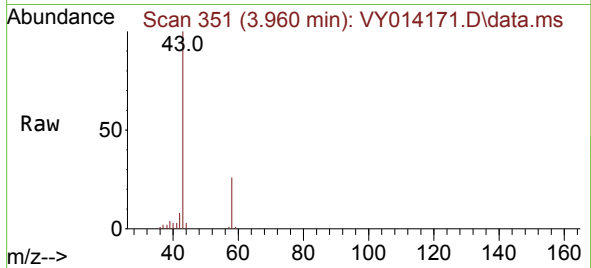




#16
Acetone
Concen: 79.082 ug/l
RT: 3.960 min Scan# 351
Delta R.T. 0.006 min
Lab File: VY014171.D
Acq: 14 Jun 2023 22:07

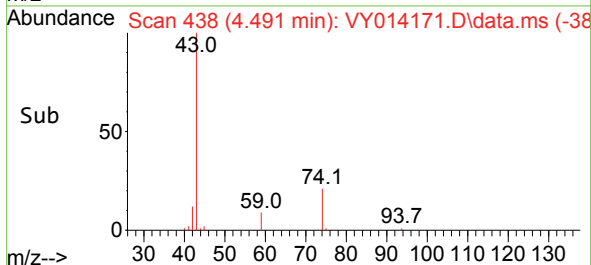
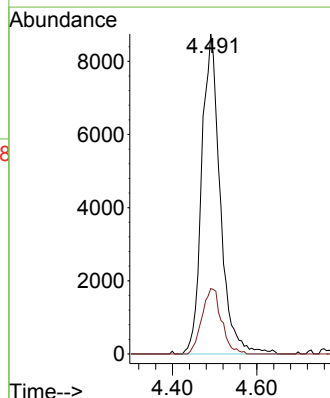
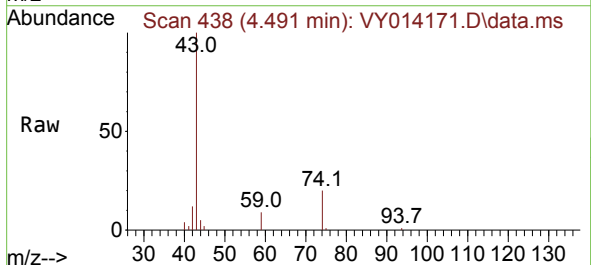
Instrument :
MSVOA_Y
ClientSampleId :
TOTAL-VOC-SB-01/02-GRAB-5B1

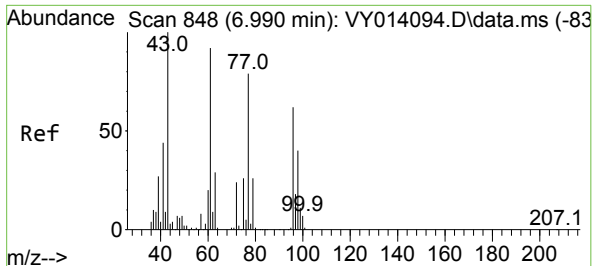
Tgt Ion: 43 Resp: 39792
Ion Ratio Lower Upper
43 100
58 25.9 22.7 34.1



#18
Methyl Acetate
Concen: 13.642 ug/l
RT: 4.491 min Scan# 438
Delta R.T. 0.013 min
Lab File: VY014171.D
Acq: 14 Jun 2023 22:07

Tgt Ion: 43 Resp: 26644
Ion Ratio Lower Upper
43 100
74 21.6 17.4 26.0





#25

2-Butanone

Concen: 7.675 ug/l

RT: 6.996 min Scan# 848

Delta R.T. 0.006 min

Lab File: VY014171.D

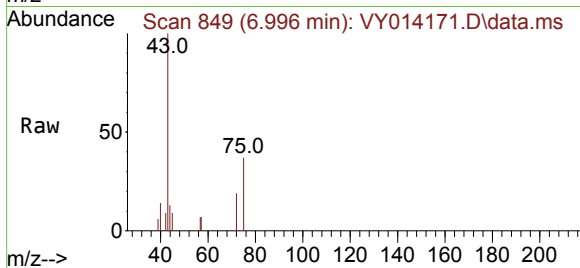
Acq: 14 Jun 2023 22:07

Instrument :

MSVOA_Y

ClientSampleId :

TOTAL-VOC-SB-01/02-GRAB-5B1

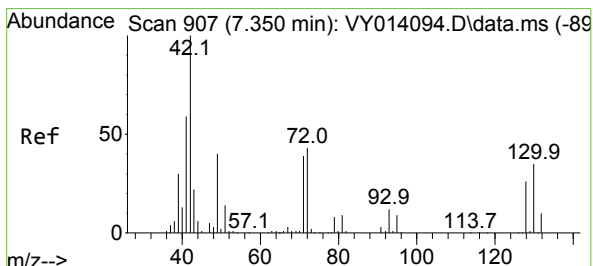
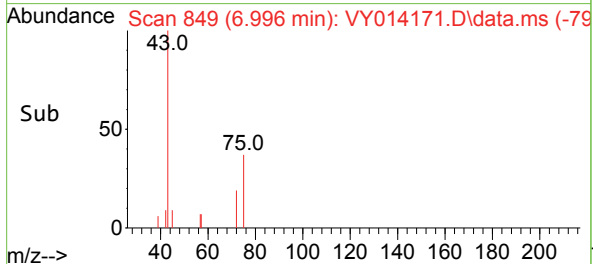
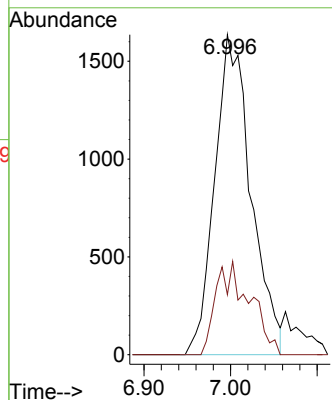


Tgt Ion: 43 Resp: 4754

Ion Ratio Lower Upper

43 100

72 18.8 20.5 30.7#



#29

Tetrahydrofuran

Concen: 4.641 ug/l

RT: 7.368 min Scan# 910

Delta R.T. 0.018 min

Lab File: VY014171.D

Acq: 14 Jun 2023 22:07

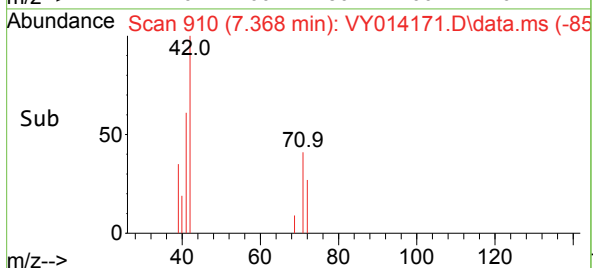
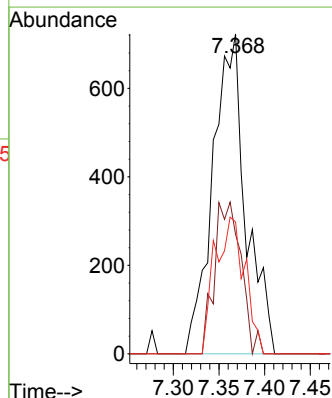
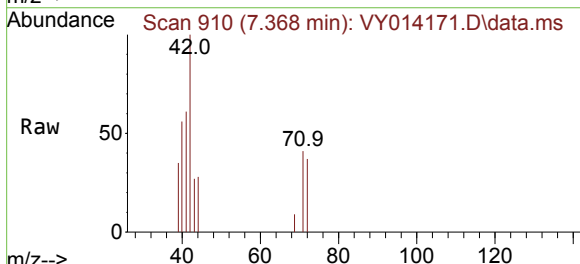
Tgt Ion: 42 Resp: 1823

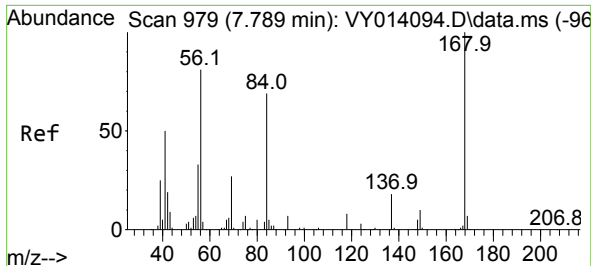
Ion Ratio Lower Upper

42 100

72 38.3 32.8 49.2

71 38.5 31.0 46.4

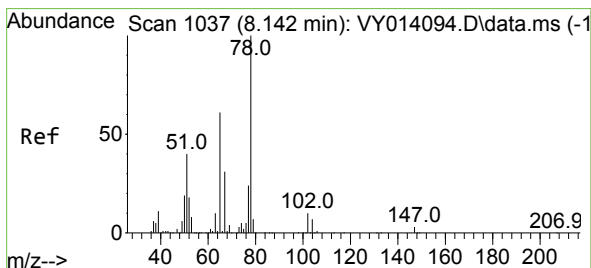
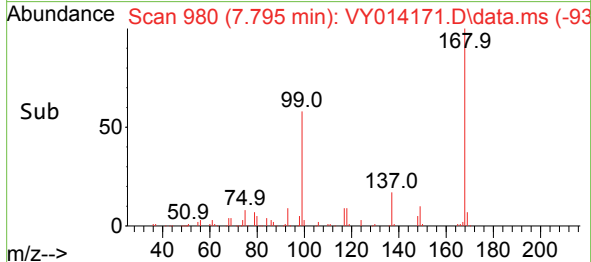
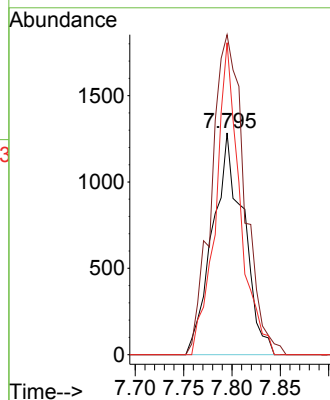
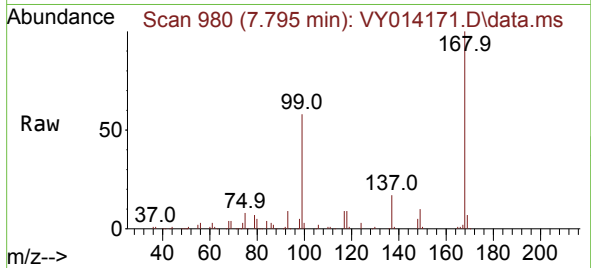




#31
Cyclohexane
Concen: 1.273 ug/l
RT: 7.795 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY014171.D
Acq: 14 Jun 2023 22:07

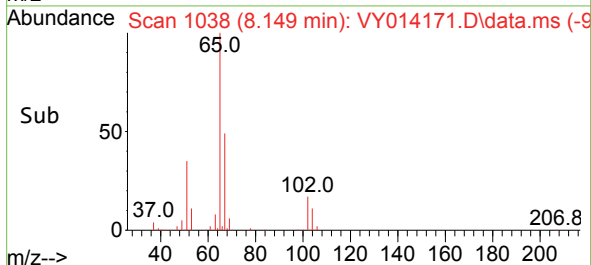
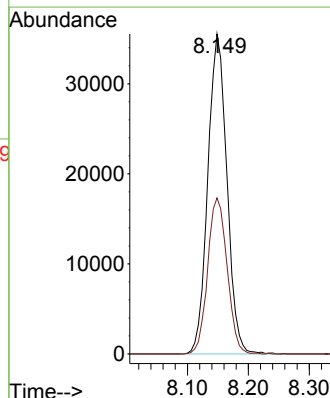
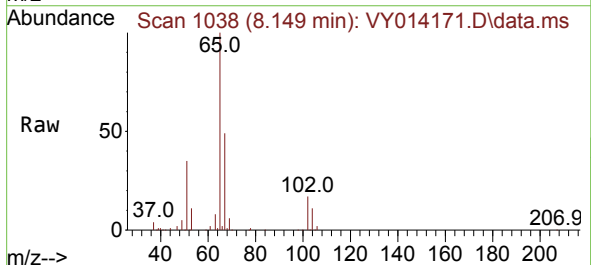
Instrument :
MSVOA_Y
ClientSampleId :
TOTAL-VOC-SB-01/02-GRAB-5B1

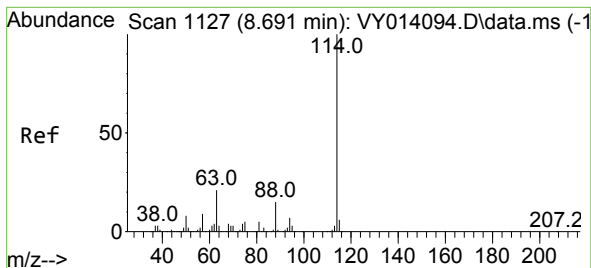
Tgt Ion: 56 Resp: 2847
Ion Ratio Lower Upper
56 100
69 144.3 27.8 41.6#
84 140.7 66.4 99.6#



#33
1,2-Dichloroethane-d4
Concen: 46.341 ug/l
RT: 8.149 min Scan# 1038
Delta R.T. 0.007 min
Lab File: VY014171.D
Acq: 14 Jun 2023 22:07

Tgt Ion: 65 Resp: 77356
Ion Ratio Lower Upper
65 100
67 49.7 0.0 101.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.697 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VY014171.D

Acq: 14 Jun 2023 22:07

Instrument :

MSVOA_Y

ClientSampleId :

TOTAL-VOC-SB-01/02-GRAB-5B1

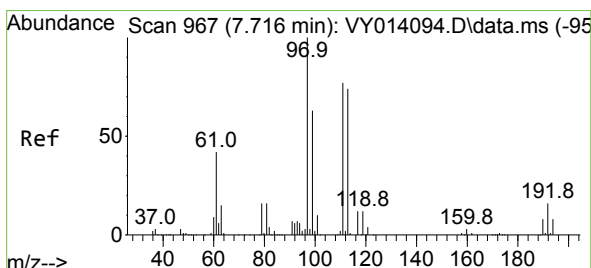
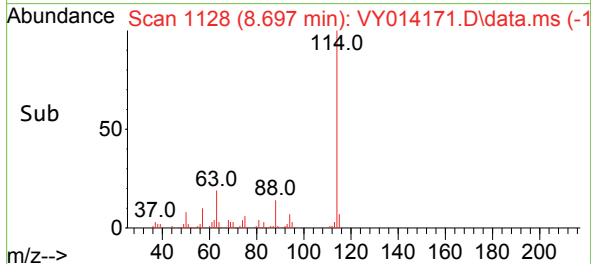
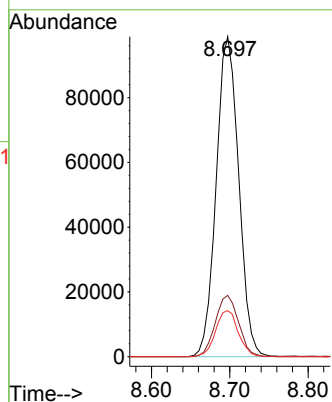
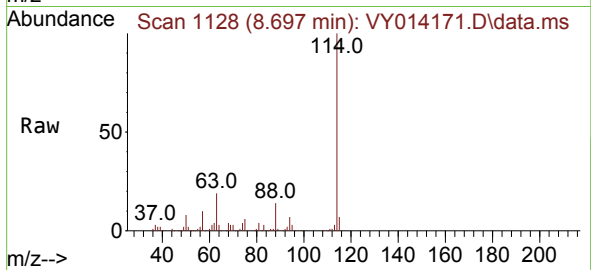
Tgt Ion:114 Resp: 197364

Ion Ratio Lower Upper

114 100

63 19.1 0.0 42.4

88 14.4 0.0 30.6



#35

Dibromofluoromethane

Concen: 46.839 ug/l

RT: 7.722 min Scan# 968

Delta R.T. 0.006 min

Lab File: VY014171.D

Acq: 14 Jun 2023 22:07

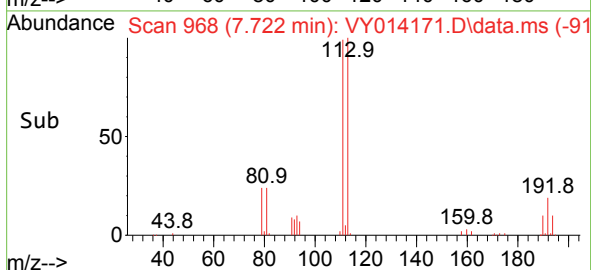
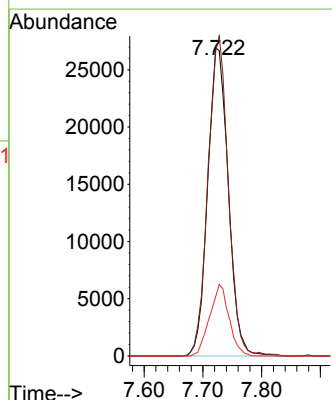
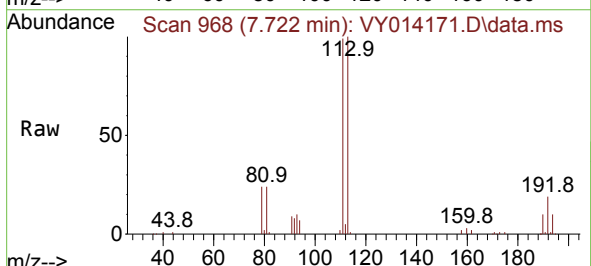
Tgt Ion:113 Resp: 65559

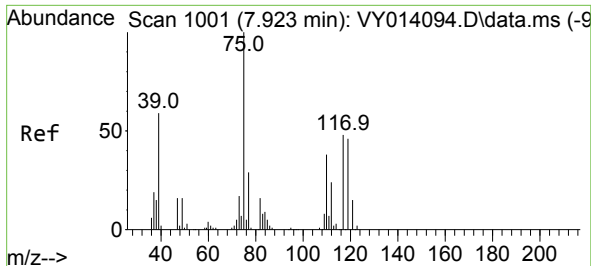
Ion Ratio Lower Upper

113 100

111 102.5 81.3 121.9

192 21.9 16.9 25.3

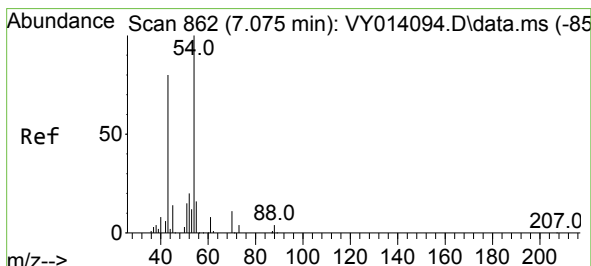
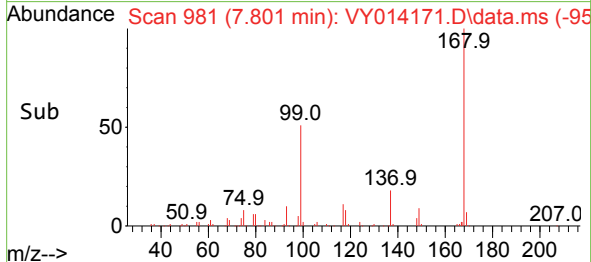
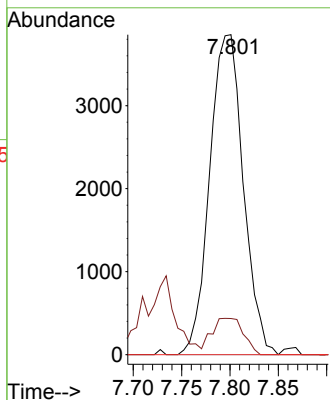
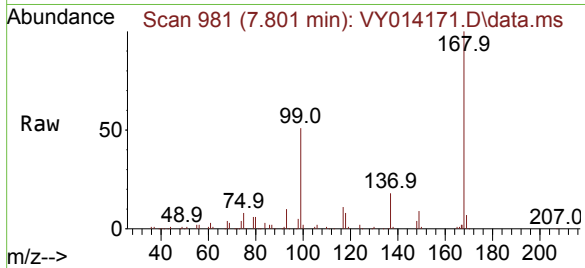




#36
1,1-Dichloropropene
Concen: 4.268 ug/l
RT: 7.801 min Scan# 911
Delta R.T. -0.122 min
Lab File: VY014171.D
Acq: 14 Jun 2023 22:07

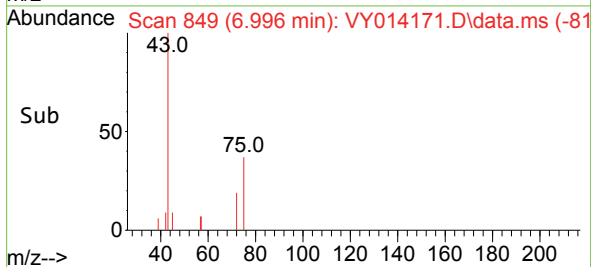
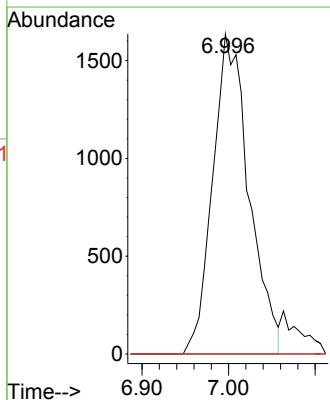
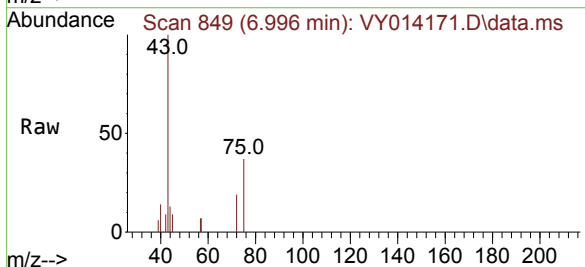
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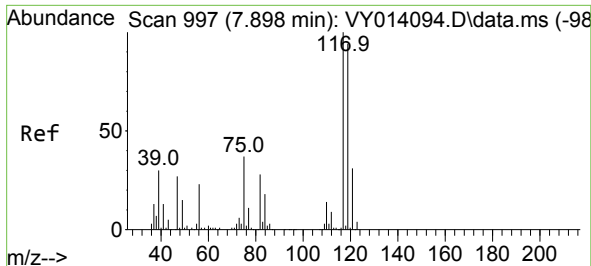
Tgt Ion: 75 Resp: 9313
Ion Ratio Lower Upper
75 100
110 10.7 17.8 53.5#
77 0.0 24.4 36.6#



#37
Ethyl Acetate
Concen: 3.158 ug/l
RT: 6.996 min Scan# 849
Delta R.T. -0.079 min
Lab File: VY014171.D
Acq: 14 Jun 2023 22:07

Tgt Ion: 43 Resp: 4754
Ion Ratio Lower Upper
43 100
61 0.0 10.1 15.1#
70 0.0 7.1 10.7#

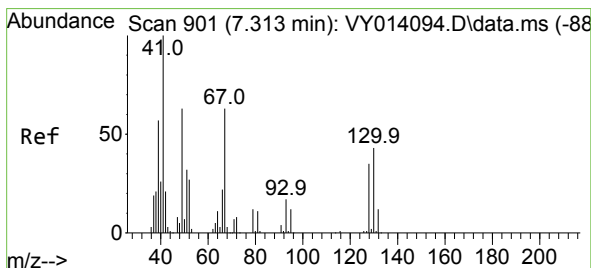
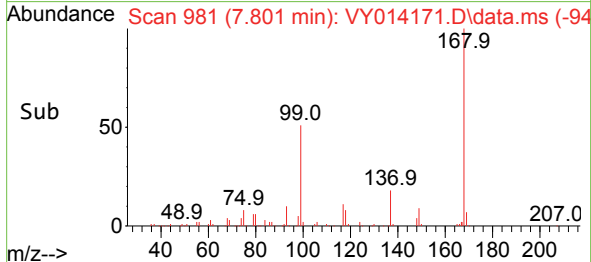
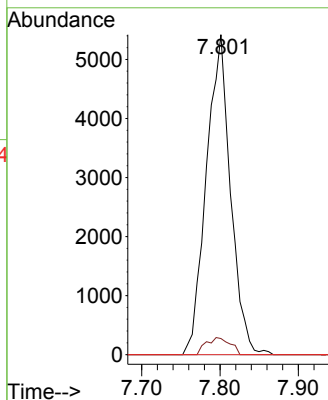
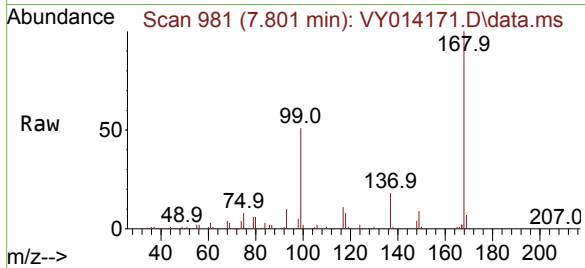




#38
Carbon Tetrachloride
Concen: 4.618 ug/l
RT: 7.801 min Scan# 911
Delta R.T. -0.097 min
Lab File: VY014171.D
Acq: 14 Jun 2023 22:07

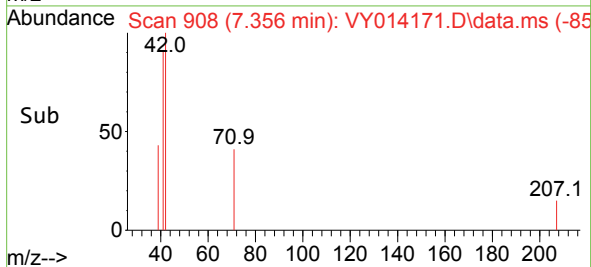
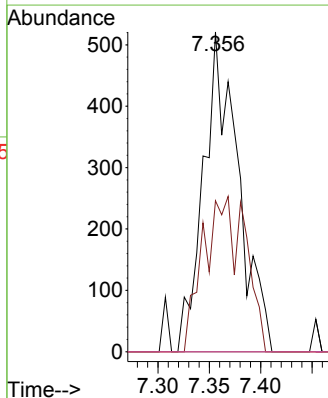
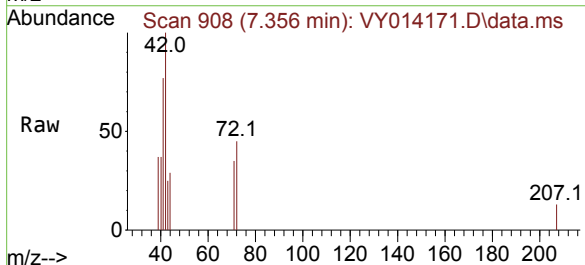
Instrument : MSVOA_Y
ClientSampleId : TOTAL-VOC-SB-01/02-GRAB-5B1

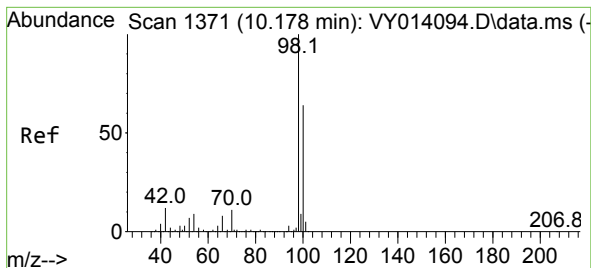
Tgt Ion:117 Resp: 11628
Ion Ratio Lower Upper
117 100
119 5.1 76.4 114.6#
121 0.0 25.8 38.6#



#41
Methacrylonitrile
Concen: 1.593 ug/l
RT: 7.356 min Scan# 908
Delta R.T. 0.043 min
Lab File: VY014171.D
Acq: 14 Jun 2023 22:07

Tgt Ion: 41 Resp: 1224
Ion Ratio Lower Upper
41 100
39 41.1 52.1 78.1#
67 0.0 66.2 99.2#
52 0.0 29.9 44.9#





#50

Toluene-d8

Concen: 45.771 ug/l

RT: 10.185 min Scan# 1371

Delta R.T. 0.007 min

Lab File: VY014171.D

Acq: 14 Jun 2023 22:07

Instrument :

MSVOA_Y

ClientSampleId :

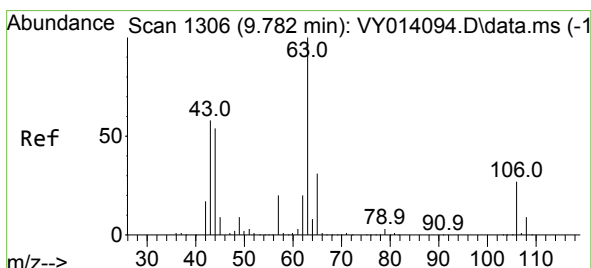
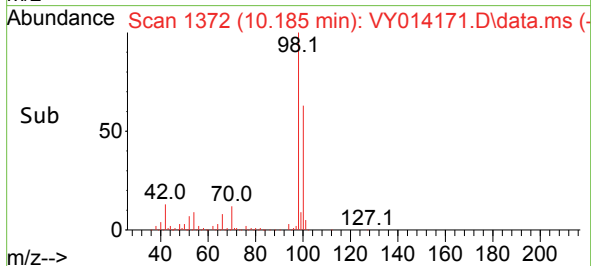
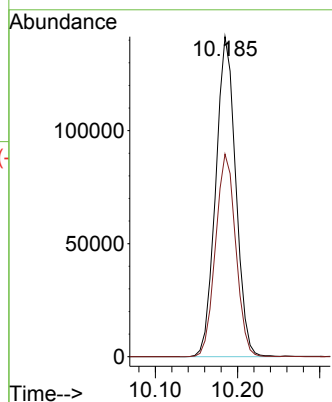
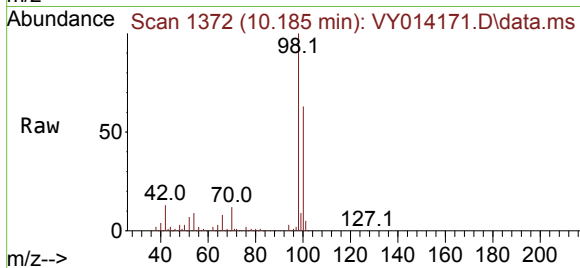
TOTAL-VOC-SB-01/02-GRAB-5B1

Tgt Ion: 98 Resp: 239510

Ion Ratio Lower Upper

98 100

100 63.8 50.1 75.1



#58

2-Chloroethyl Vinyl ether

Concen: 28.656 ug/l

RT: 10.014 min Scan# 1344

Delta R.T. 0.232 min

Lab File: VY014171.D

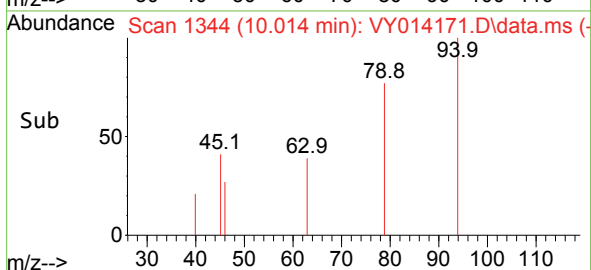
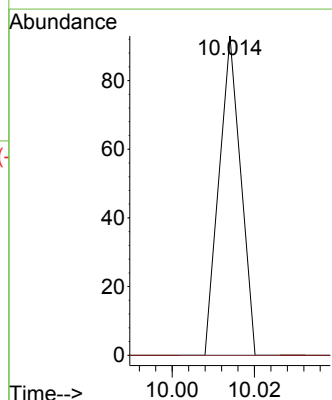
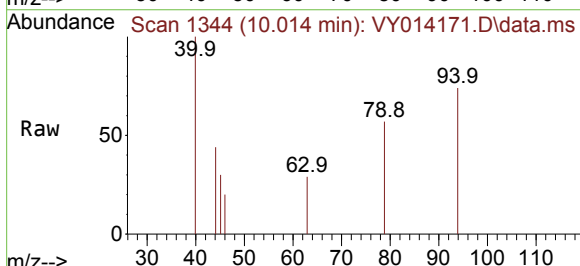
Acq: 14 Jun 2023 22:07

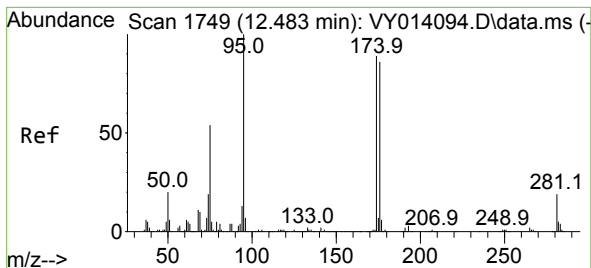
Tgt Ion: 63 Resp: 34

Ion Ratio Lower Upper

63 100

106 0.0 21.2 31.8#

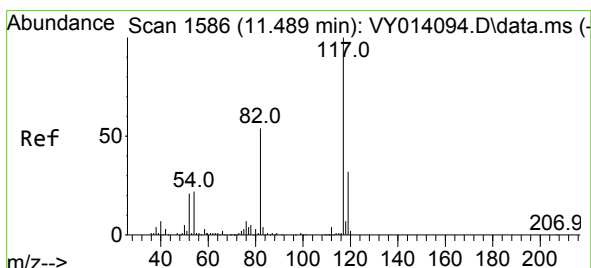
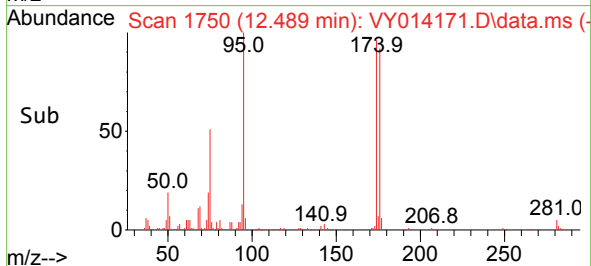
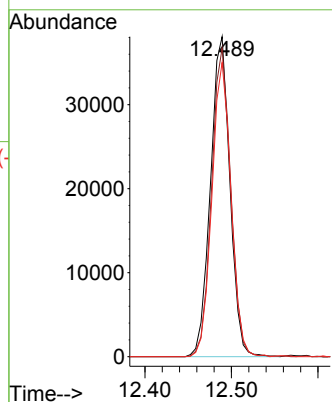
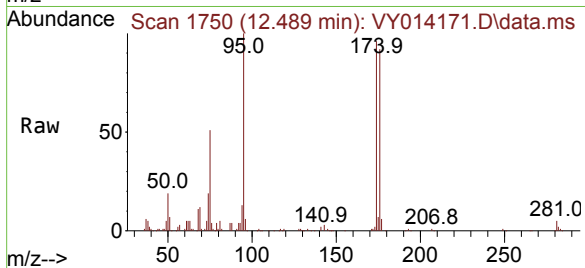




#62
4-Bromofluorobenzene
Concen: 31.945 ug/l
RT: 12.489 min Scan# 1750
Delta R.T. 0.006 min
Lab File: VY014171.D
Acq: 14 Jun 2023 22:07

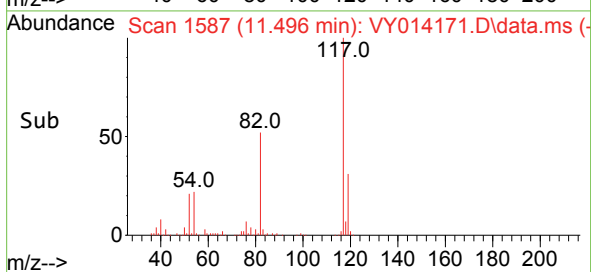
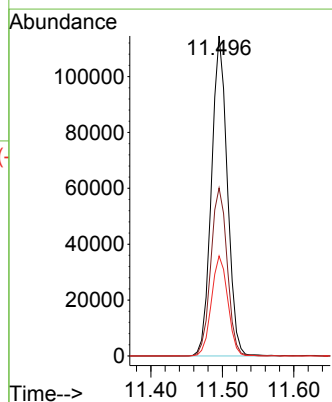
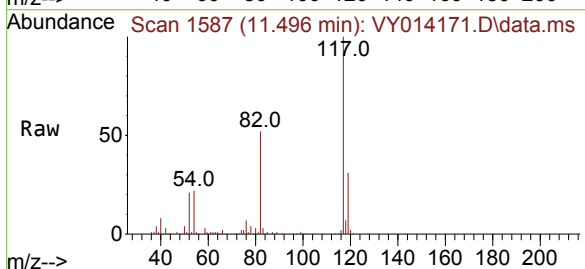
Instrument :
MSVOA_Y
ClientSampleId :
TOTAL-VOC-SB-01/02-GRAB-5B1

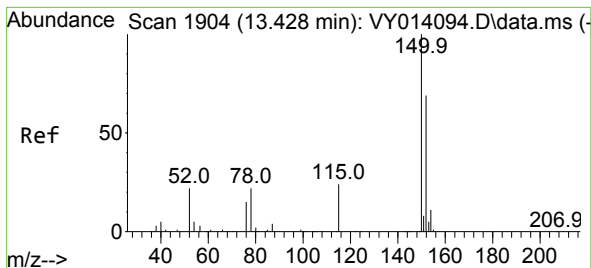
Tgt Ion: 95 Resp: 59381
Ion Ratio Lower Upper
95 100
174 95.3 0.0 178.2
176 90.7 0.0 173.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.496 min Scan# 1587
Delta R.T. 0.006 min
Lab File: VY014171.D
Acq: 14 Jun 2023 22:07

Tgt Ion: 117 Resp: 176518
Ion Ratio Lower Upper
117 100
82 52.5 43.4 65.0
119 31.2 26.3 39.5

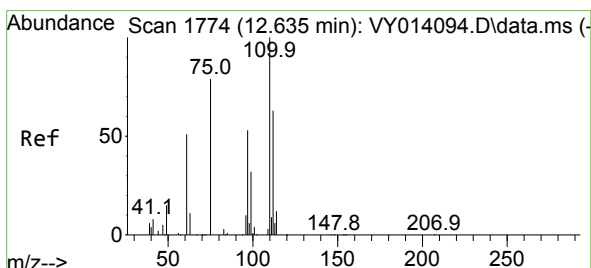
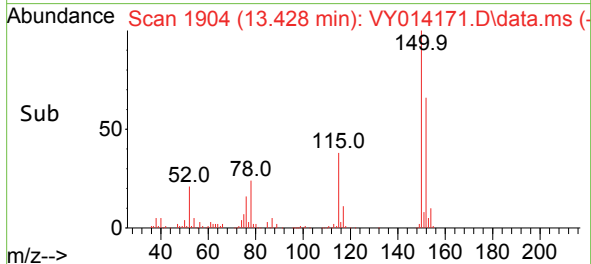
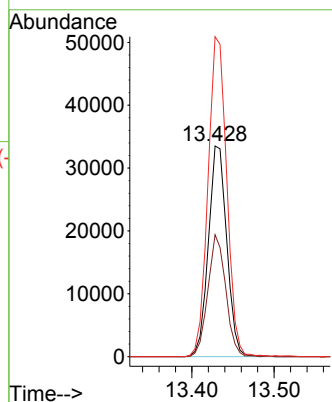
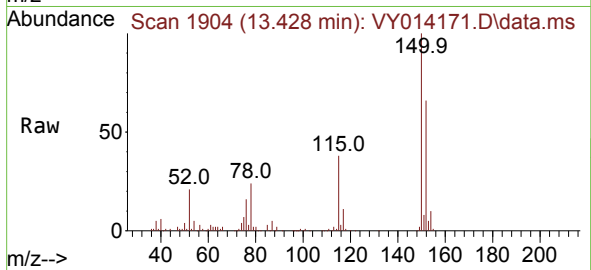




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.428 min Scan# 1904
 Delta R.T. 0.000 min
 Lab File: VY014171.D
 Acq: 14 Jun 2023 22:07

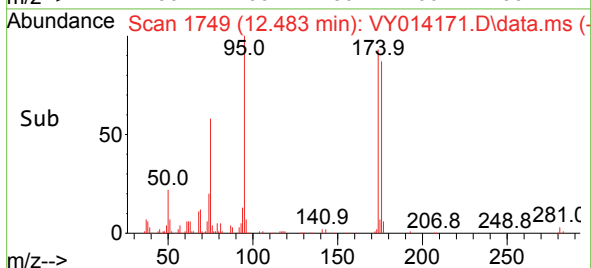
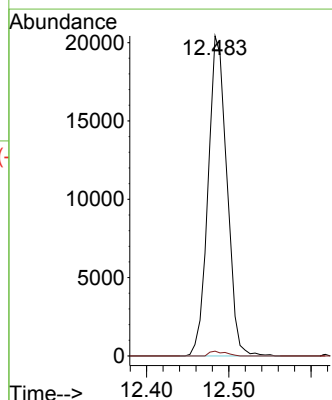
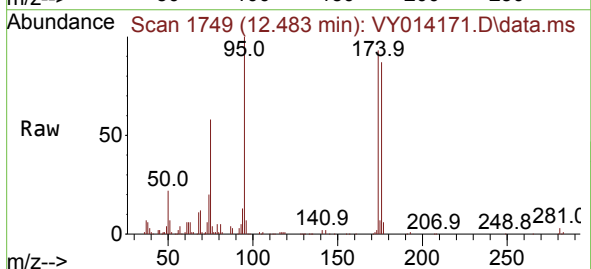
Instrument : MSVOA_Y
 ClientSampleId : TOTAL-VOC-SB-01/02-GRAB-5B1

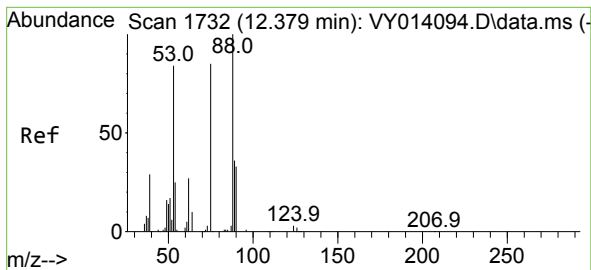
Tgt Ion:152 Resp: 52135
 Ion Ratio Lower Upper
 152 100
 115 56.1 28.8 86.5
 150 154.4 0.0 348.8



#76
 1,2,3-Trichloropropane
 Concen: 47.426 ug/l
 RT: 12.483 min Scan# 1749
 Delta R.T. -0.152 min
 Lab File: VY014171.D
 Acq: 14 Jun 2023 22:07

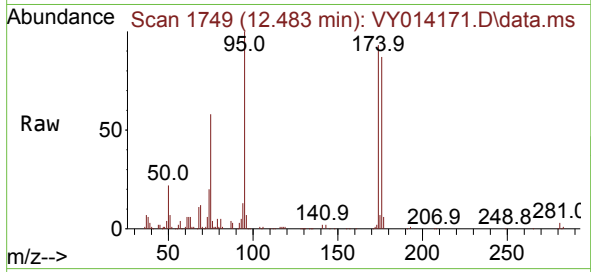
Tgt Ion: 75 Resp: 32439
 Ion Ratio Lower Upper
 75 100
 77 1.3 0.0 0.0#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 102.516 ug/l
 RT: 12.483 min Scan# 11
 Delta R.T. 0.104 min
 Lab File: VY014171.D
 Acq: 14 Jun 2023 22:07

Instrument :
 MSVOA_Y
 ClientSampleId :
 TOTAL-VOC-SB-01/02-GRAB-5B1



Tgt Ion	Ratio	Lower	Upper
75	100		
53	0.0	77.8	116.8#
89	0.0	37.4	56.0#

