

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032725\
 Data File : VY021670.D
 Acq On : 27 Mar 2025 16:35
 Operator : SY/MD
 Sample : Q1662-07
 Misc : 5.46g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-7-VOC

Quant Time: Mar 28 04:02:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 28 02:30:29 2025
 Response via : Initial Calibration

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

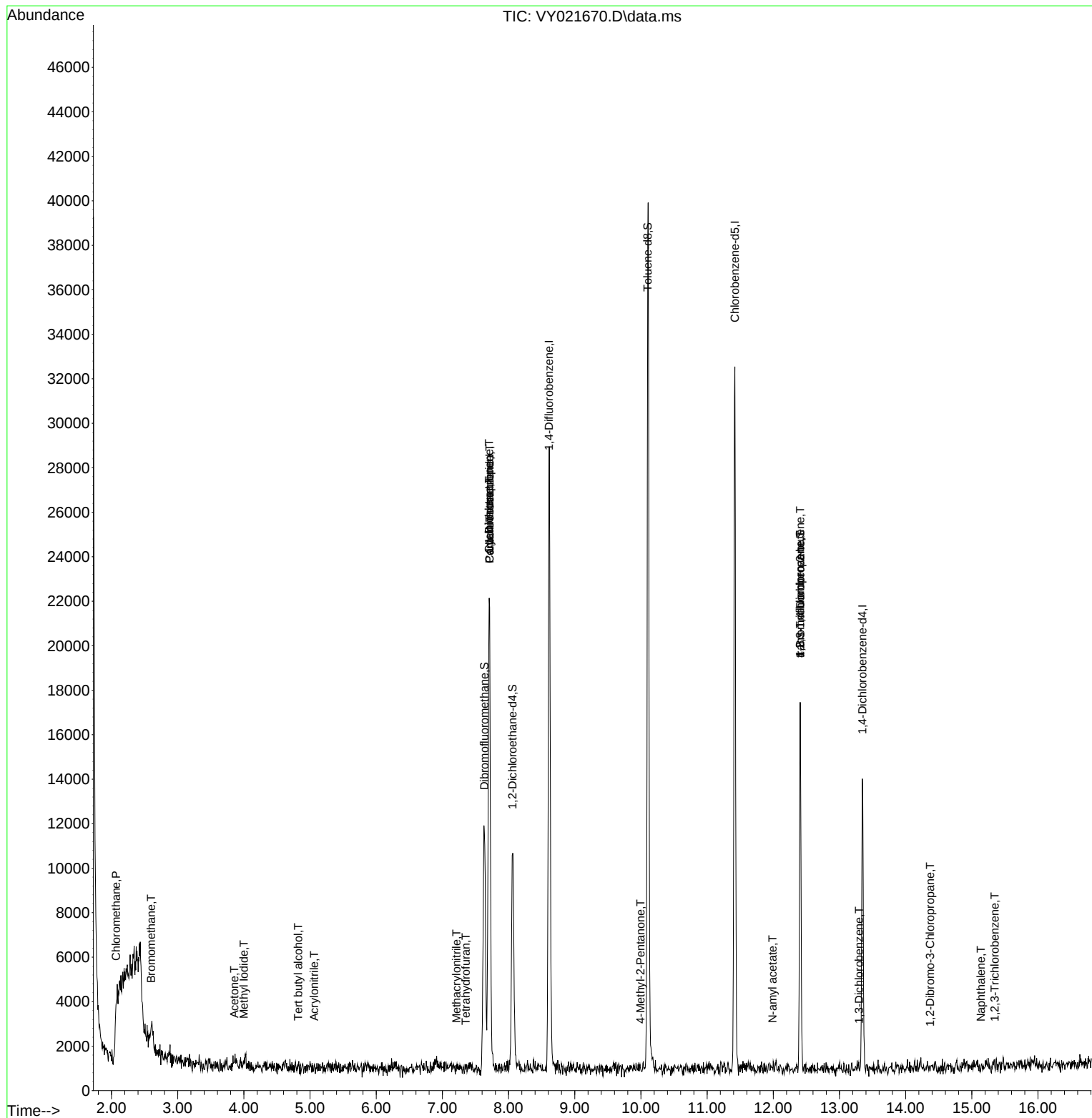
Internal Standards						
1) Pentafluorobenzene	7.713	168	15924	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	23390	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	16815	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	3318	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.060	65	8342	48.350	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	96.700%
35) Dibromofluoromethane	7.634	113	8572	56.496	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	113.000%
50) Toluene-d8	10.103	98	26244	45.467	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	90.940%
62) 4-Bromofluorobenzene	12.407	95	4788	24.523	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	49.040%
Target Compounds						
					Qvalue	
3) Chloromethane	2.068	50	694	2.990	ug/l	91
5) Bromomethane	2.598	94	625	3.491	ug/l	90
10) Methyl Iodide	4.000	142	389	2.000	ug/l #	37
11) Tert butyl alcohol	4.823	59	26	2.320	ug/l #	70
15) Acrylonitrile	5.061	53	41	1.074	ug/l #	18
16) Acetone	3.854	43	656	18.578	ug/l	91
20) Methylene Chloride	4.616	84	117	Below Cal	#	83
29) Tetrahydrofuran	7.353	42	44	1.356	ug/l #	34
31) Cyclohexane	7.707	56	492	1.616	ug/l #	33
36) 1,1-Dichloropropene	7.707	75	1606	6.949	ug/l #	47
38) Carbon Tetrachloride	7.713	117	1803	6.812	ug/l #	12
41) Methacrylonitrile	7.213	41	77	1.329	ug/l #	100
51) 4-Methyl-2-Pentanone	9.993	43	111	1.032	ug/l #	36
74) N-amyl acetate	11.987	43	179	3.095	ug/l #	42
76) 1,2,3-Trichloropropane	12.407	75	2487	75.616	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.407	75	2487	174.232	ug/l #	12
87) 1,3-Dichlorobenzene	13.297	146	187	1.604	ug/l #	25
92) 1,2-Dibromo-3-Chloropr...	14.370	75	22	3.204	ug/l #	1
95) Naphthalene	15.138	128	158	1.732	ug/l #	68
96) 1,2,3-Trichlorobenzene	15.346	180	98	2.088	ug/l #	60

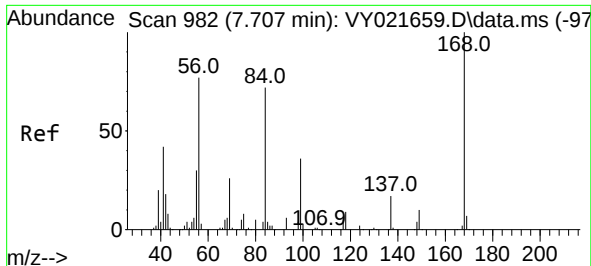
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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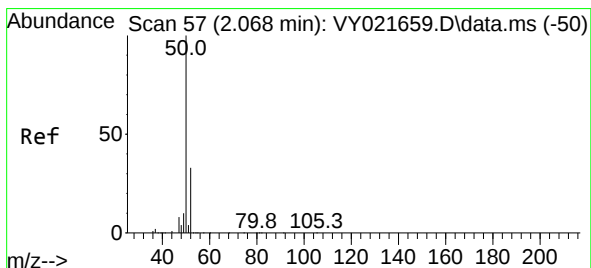
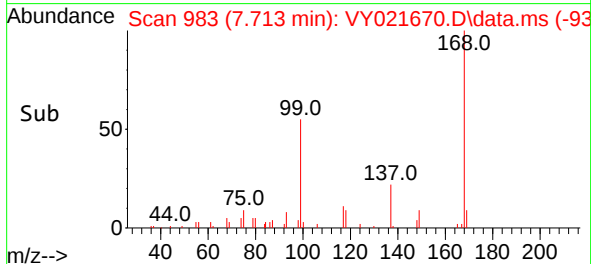
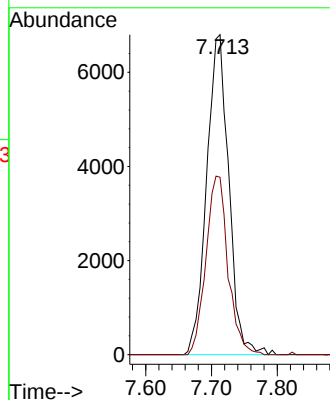
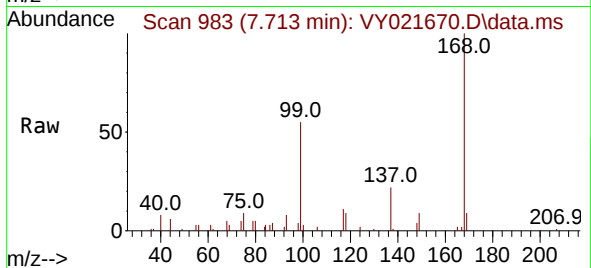




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 99
Delta R.T. 0.006 min
Lab File: VY021670.D
Acq: 27 Mar 2025 16:35

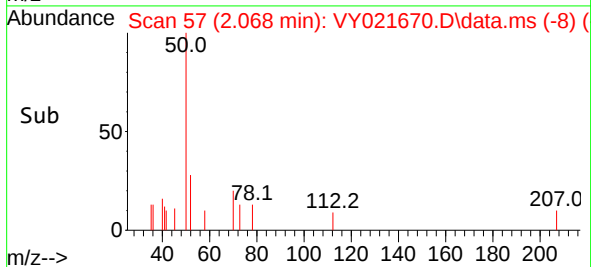
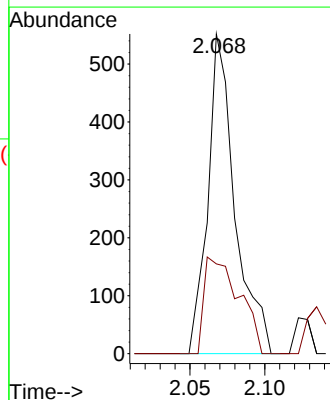
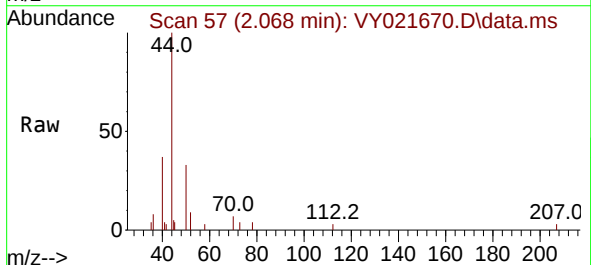
Instrument :
MSVOA_Y
ClientSampleId :
TP-7-VOC

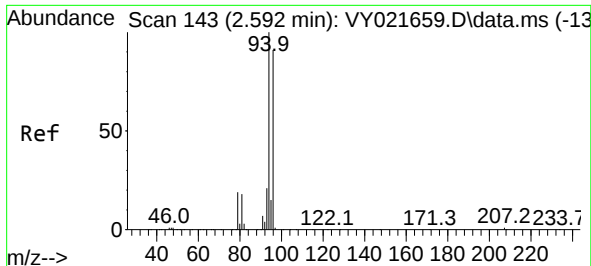
Tgt Ion:168 Resp: 15924
Ion Ratio Lower Upper
168 100
99 55.4 46.7 70.1



#3
Chloromethane
Concen: 2.990 ug/l
RT: 2.068 min Scan# 57
Delta R.T. -0.000 min
Lab File: VY021670.D
Acq: 27 Mar 2025 16:35

Tgt Ion: 50 Resp: 694
Ion Ratio Lower Upper
50 100
52 28.1 26.3 39.5

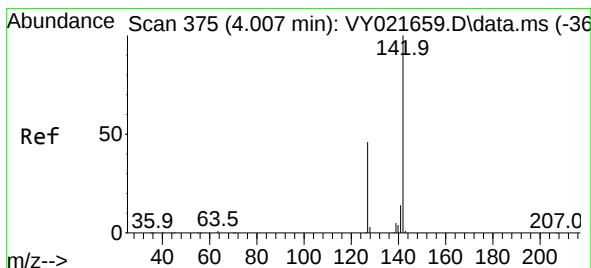
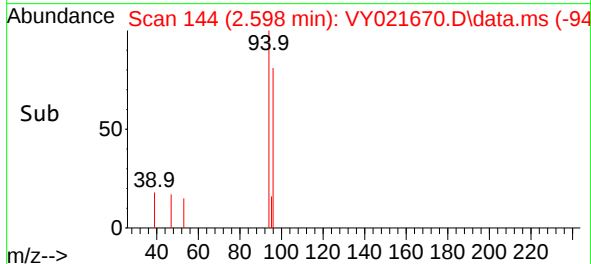
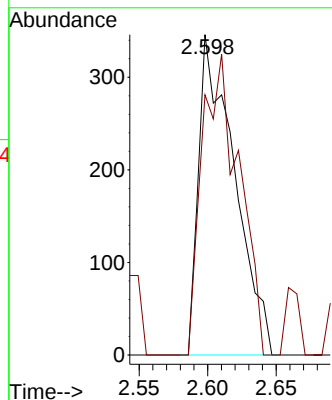
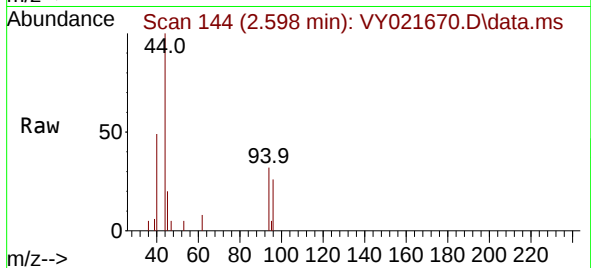




#5
Bromomethane
Concen: 3.491 ug/l
RT: 2.598 min Scan# 143
Delta R.T. 0.006 min
Lab File: VY021670.D
Acq: 27 Mar 2025 16:35

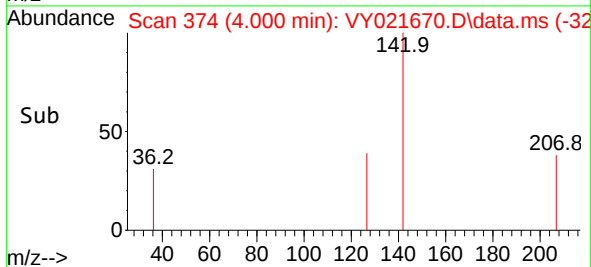
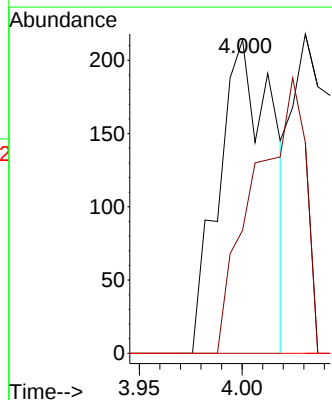
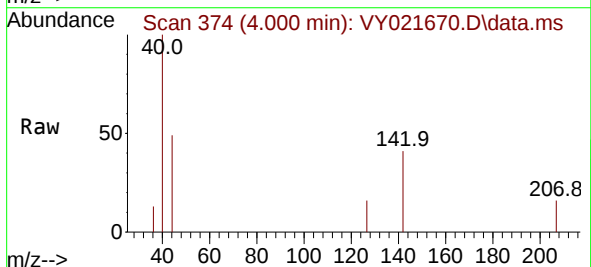
Instrument :
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TP-7-VOC

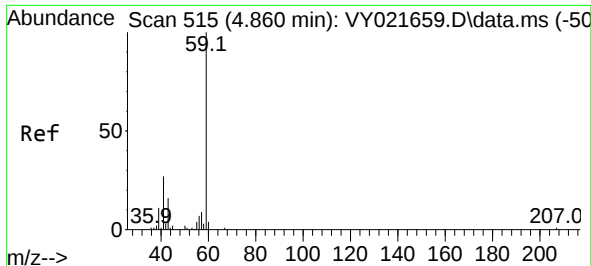
Tgt Ion: 94 Resp: 625
Ion Ratio Lower Upper
94 100
96 81.2 72.8 109.2



#10
Methyl Iodide
Concen: 2.000 ug/l
RT: 4.000 min Scan# 374
Delta R.T. -0.006 min
Lab File: VY021670.D
Acq: 27 Mar 2025 16:35

Tgt Ion: 142 Resp: 389
Ion Ratio Lower Upper
142 100
127 0.0 38.7 58.1#
141 0.0 11.5 17.3#

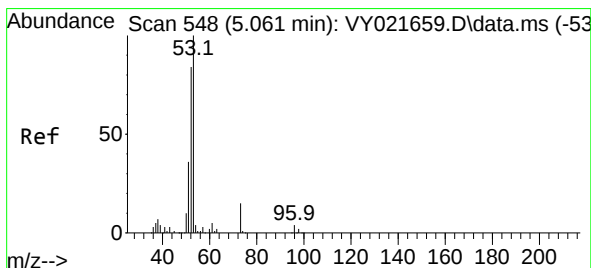
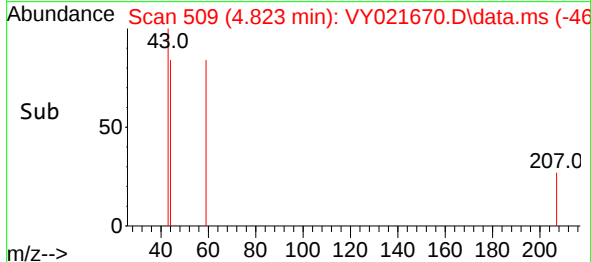
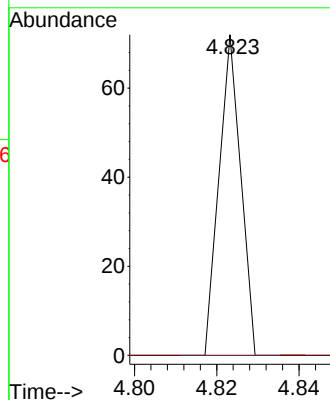
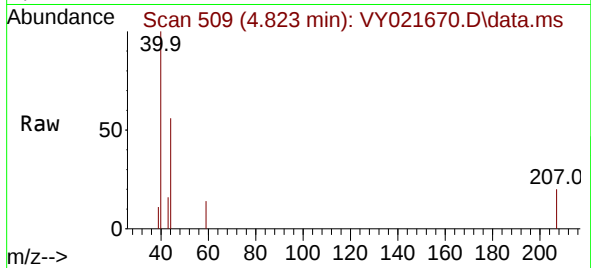




#11
Tert butyl alcohol
Concen: 2.320 ug/l
RT: 4.823 min Scan# 509
Delta R.T. -0.037 min
Lab File: VY021670.D
Acq: 27 Mar 2025 16:35

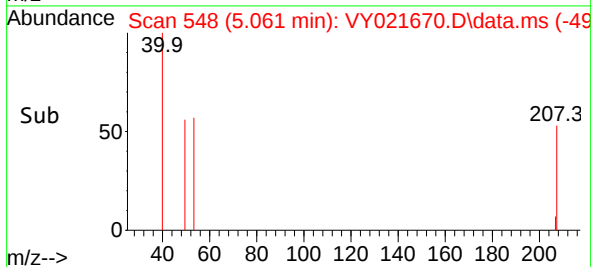
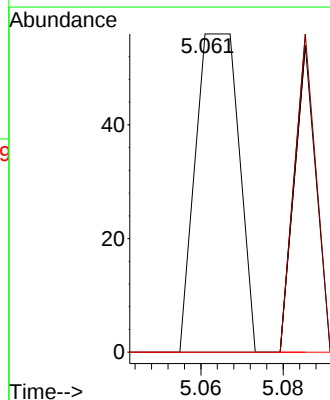
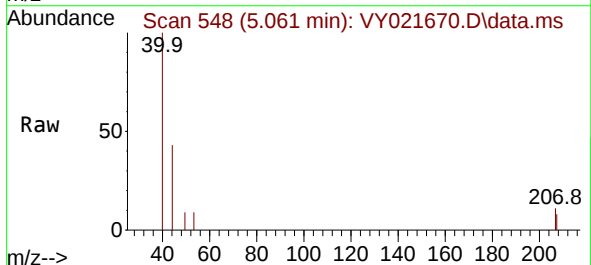
Instrument :
MSVOA_Y
ClientSampleId :
TP-7-VOC

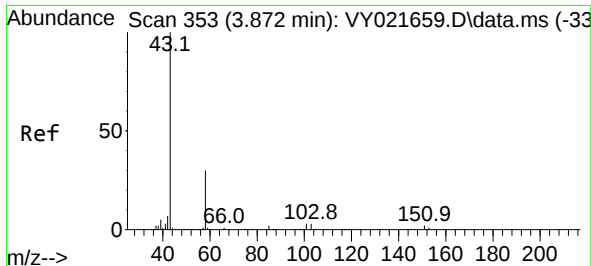
Tgt Ion: 59 Resp: 26
Ion Ratio Lower Upper
59 100
57 0.0 9.2 13.8#



#15
Acrylonitrile
Concen: 1.074 ug/l
RT: 5.061 min Scan# 548
Delta R.T. -0.000 min
Lab File: VY021670.D
Acq: 27 Mar 2025 16:35

Tgt Ion: 53 Resp: 41
Ion Ratio Lower Upper
53 100
52 0.0 64.9 97.3#
51 0.0 30.2 45.2#

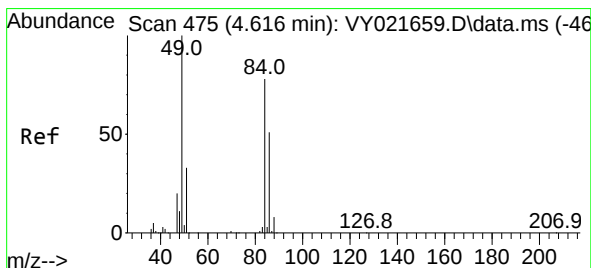
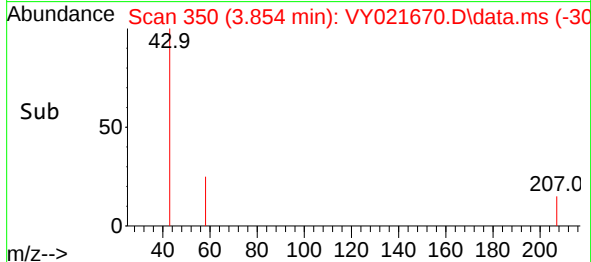
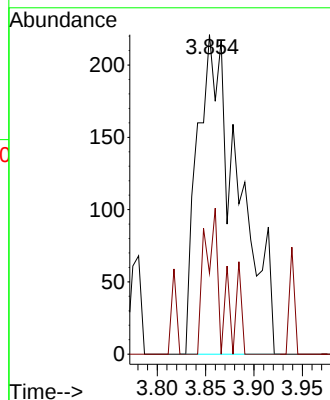
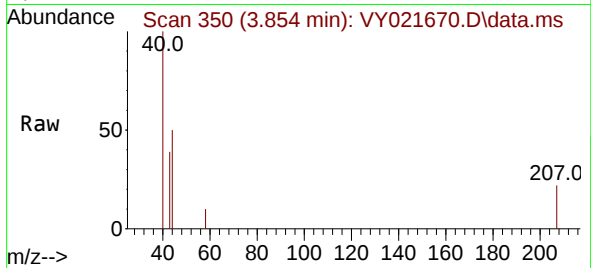




#16
Acetone
Concen: 18.578 ug/l
RT: 3.854 min Scan# 311
Delta R.T. -0.019 min
Lab File: VY021670.D
Acq: 27 Mar 2025 16:35

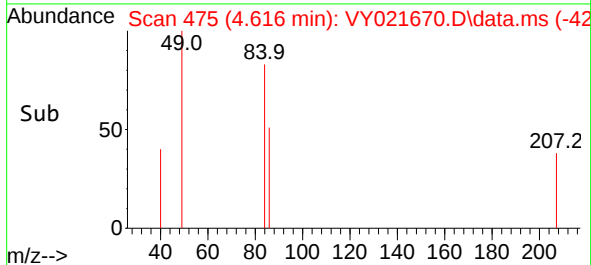
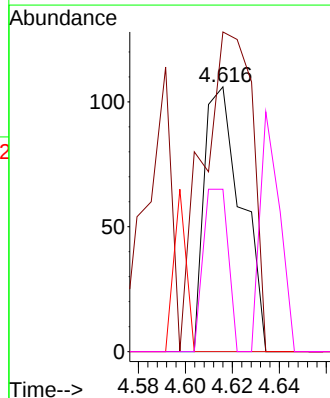
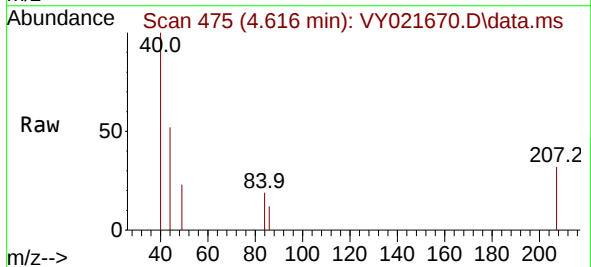
Instrument :
MSVOA_Y
ClientSampleId :
TP-7-VOC

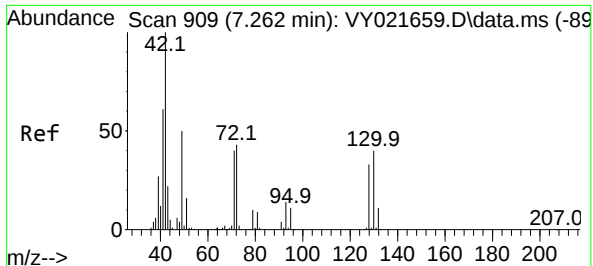
Tgt Ion: 43 Resp: 656
Ion Ratio Lower Upper
43 100
58 25.3 24.2 36.4



#20
Methylene Chloride
Concen: Below Cal
RT: 4.616 min Scan# 475
Delta R.T. -0.000 min
Lab File: VY021670.D
Acq: 27 Mar 2025 16:35

Tgt Ion: 84 Resp: 117
Ion Ratio Lower Upper
84 100
49 120.8 102.8 154.2
51 0.0 33.5 50.3#
86 61.3 52.0 78.0





#29

Tetrahydrofuran

Concen: 1.356 ug/l

RT: 7.353 min Scan# 91

Delta R.T. 0.091 min

Lab File: VY021670.D

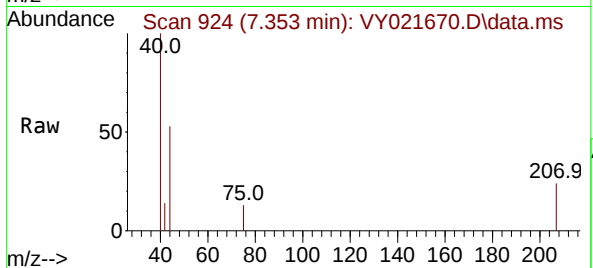
Acq: 27 Mar 2025 16:35

Instrument :

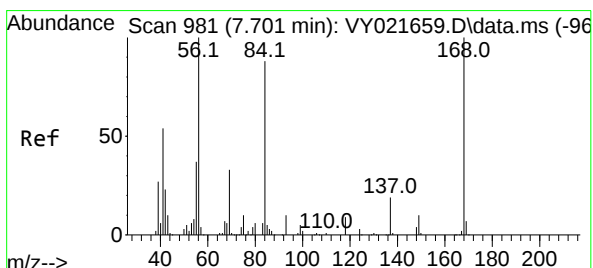
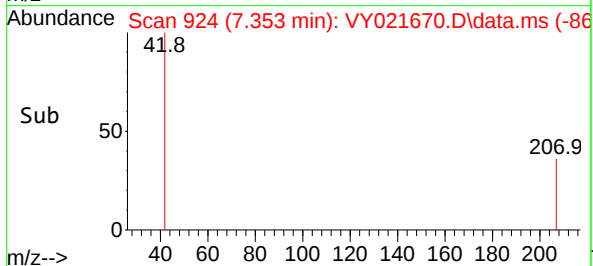
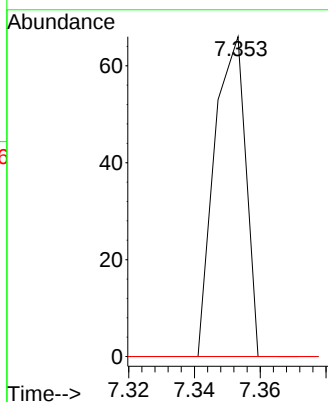
MSVOA_Y

ClientSampleId :

TP-7-VOC



Tgt Ion:	42	Resp:	44
Ion	Ratio	Lower	Upper
42	100		
72	0.0	34.6	52.0#
71	0.0	32.5	48.7#



#31

Cyclohexane

Concen: 1.616 ug/l

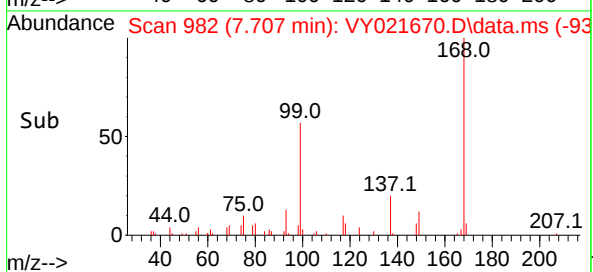
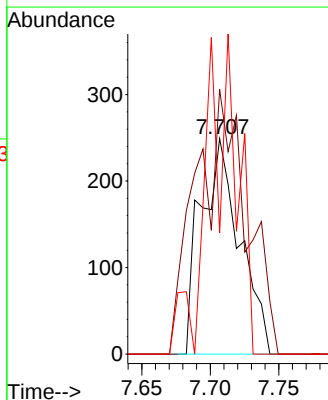
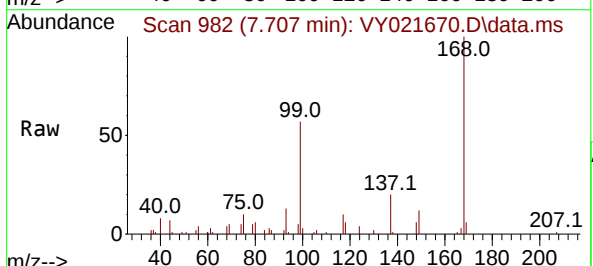
RT: 7.707 min Scan# 982

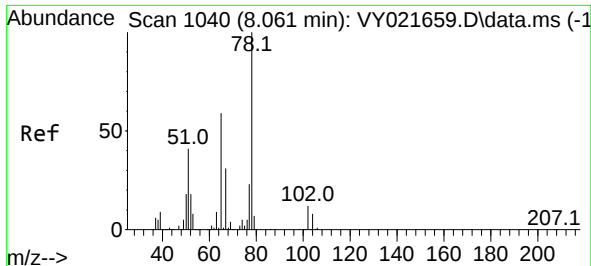
Delta R.T. 0.006 min

Lab File: VY021670.D

Acq: 27 Mar 2025 16:35

Tgt Ion:	56	Resp:	492
Ion	Ratio	Lower	Upper
56	100		
69	122.9	26.6	40.0#
84	56.2	69.0	103.4#





#33

1,2-Dichloroethane-d4

Concen: 48.350 ug/l

RT: 8.060 min Scan# 110

Delta R.T. -0.000 min

Lab File: VY021670.D

Acq: 27 Mar 2025 16:35

Instrument :

MSVOA_Y

ClientSampleId :

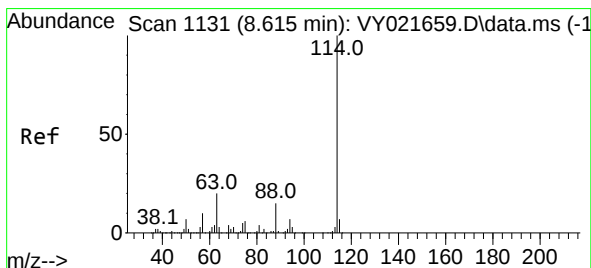
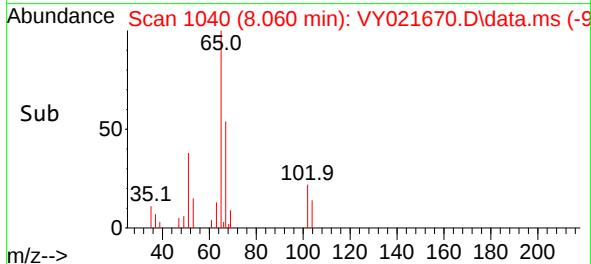
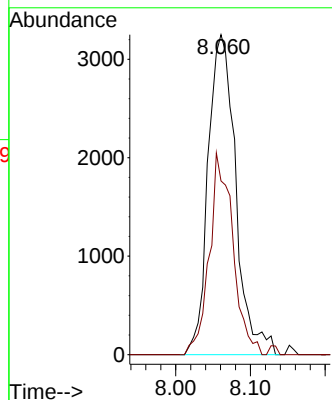
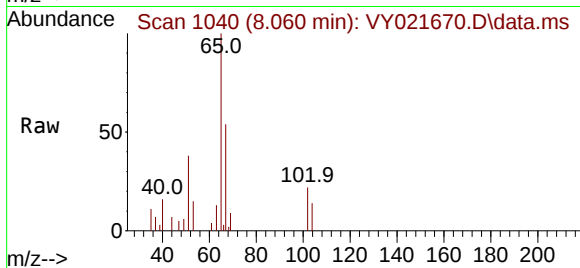
TP-7-VOC

Tgt Ion: 65 Resp: 8342

Ion Ratio Lower Upper

65 100

67 53.7 0.0 104.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.609 min Scan# 1130

Delta R.T. -0.006 min

Lab File: VY021670.D

Acq: 27 Mar 2025 16:35

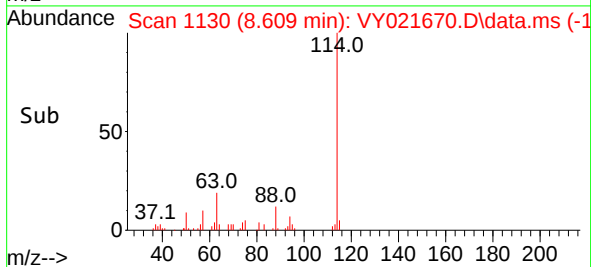
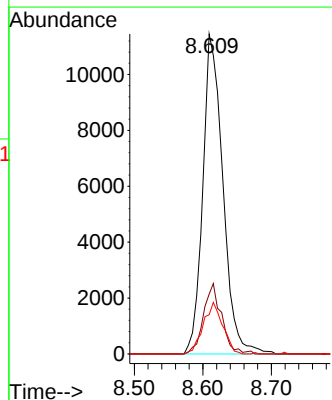
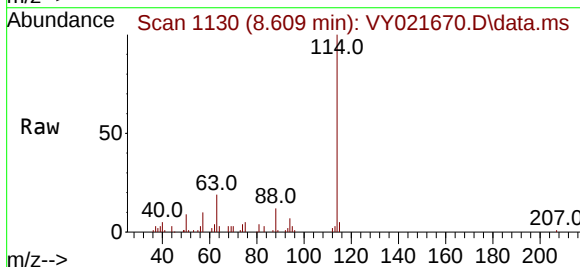
Tgt Ion: 114 Resp: 23390

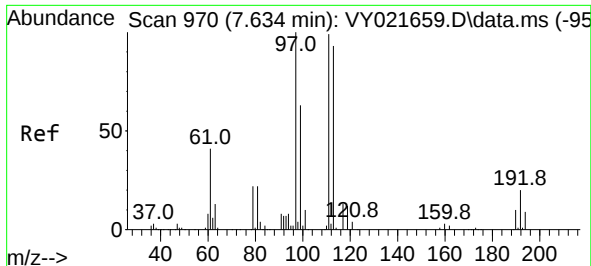
Ion Ratio Lower Upper

114 100

63 18.7 0.0 40.2

88 12.3 0.0 29.8

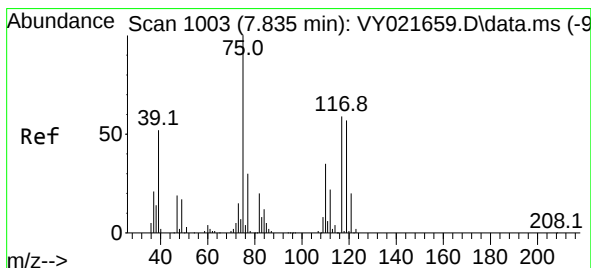
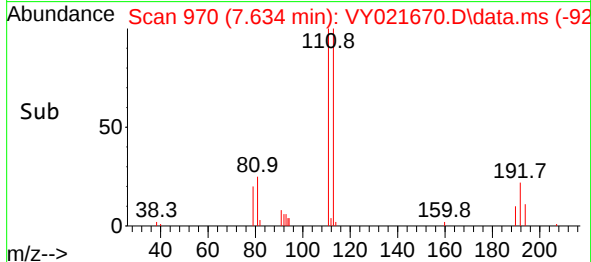
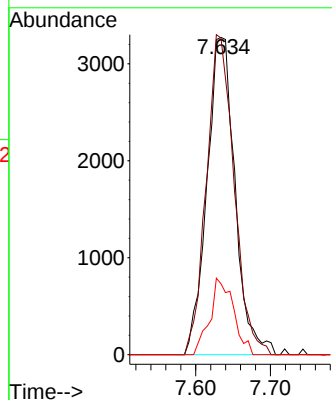
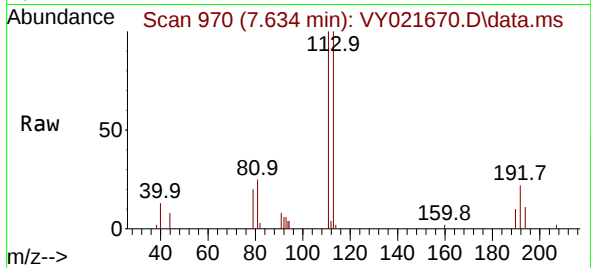




#35
Dibromofluoromethane
Concen: 56.496 ug/l
RT: 7.634 min Scan# 911
Delta R.T. -0.000 min
Lab File: VY021670.D
Acq: 27 Mar 2025 16:35

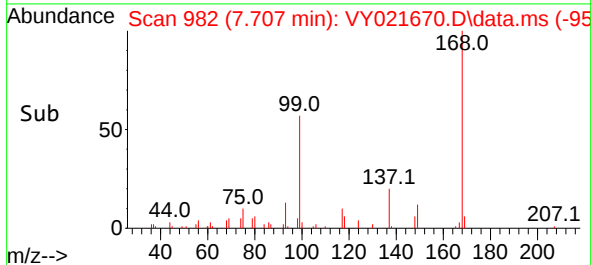
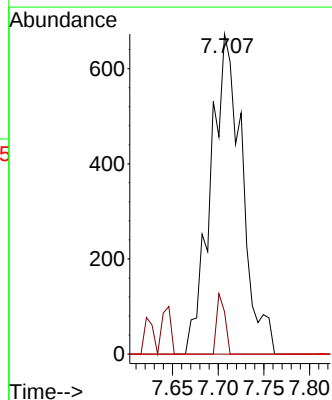
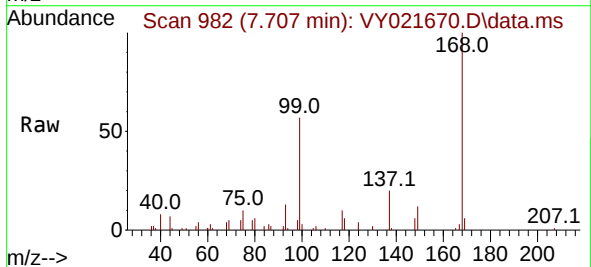
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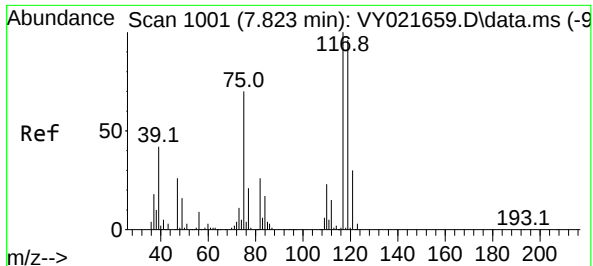
Tgt Ion:113 Resp: 8572
Ion Ratio Lower Upper
113 100
111 99.3 82.6 123.8
192 20.3 16.2 24.4



#36
1,1-Dichloropropene
Concen: 6.949 ug/l
RT: 7.707 min Scan# 982
Delta R.T. -0.128 min
Lab File: VY021670.D
Acq: 27 Mar 2025 16:35

Tgt Ion: 75 Resp: 1606
Ion Ratio Lower Upper
75 100
110 4.9 17.0 50.9#
77 0.0 24.8 37.2#

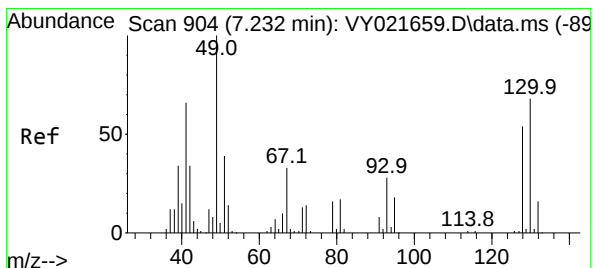
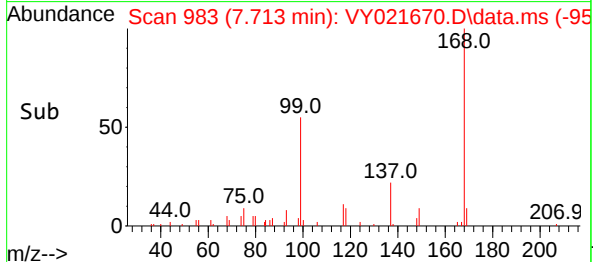
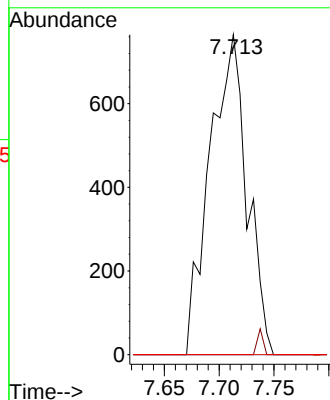
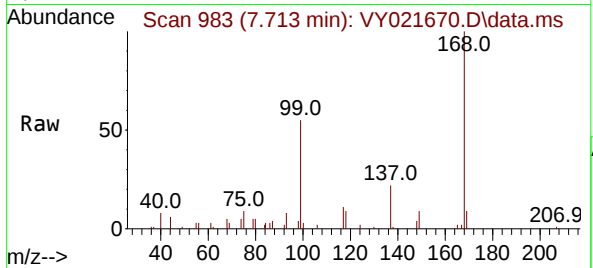




#38
Carbon Tetrachloride
Concen: 6.812 ug/l
RT: 7.713 min Scan# 901
Delta R.T. -0.110 min
Lab File: VY021670.D
Acq: 27 Mar 2025 16:35

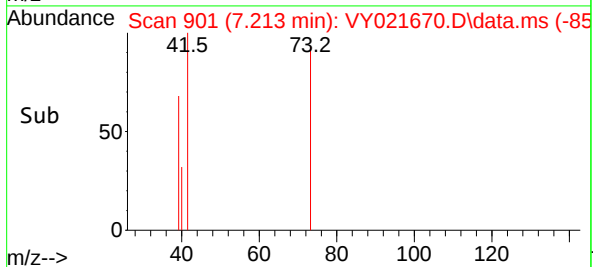
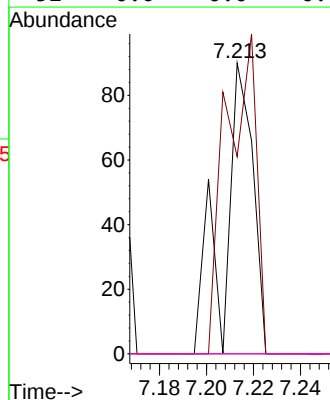
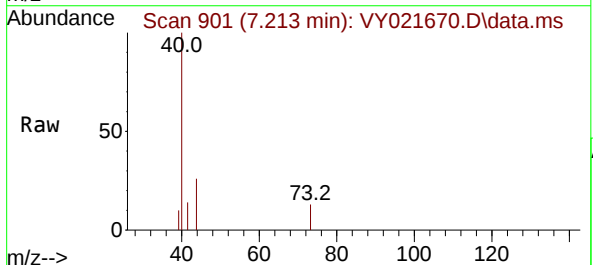
Instrument :
MSVOA_Y
ClientSampleId :
TP-7-VOC

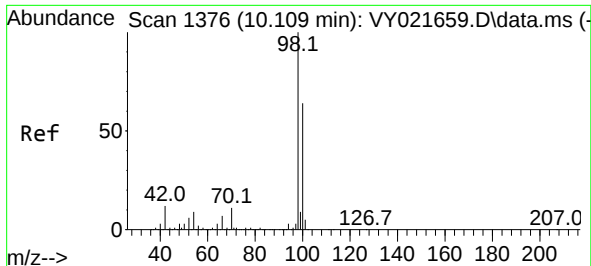
Tgt Ion:117 Resp: 1803
Ion Ratio Lower Upper
117 100
119 0.0 76.2 114.4#
121 0.0 24.2 36.4#



#41
Methacrylonitrile
Concen: 1.329 ug/l
RT: 7.213 min Scan# 901
Delta R.T. -0.019 min
Lab File: VY021670.D
Acq: 27 Mar 2025 16:35

Tgt Ion: 41 Resp: 77
Ion Ratio Lower Upper
41 100
39 114.3 0.0 0.0#
67 0.0 0.0 0.0
52 0.0 0.0 0.0

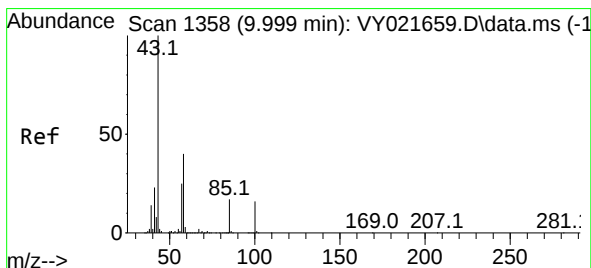
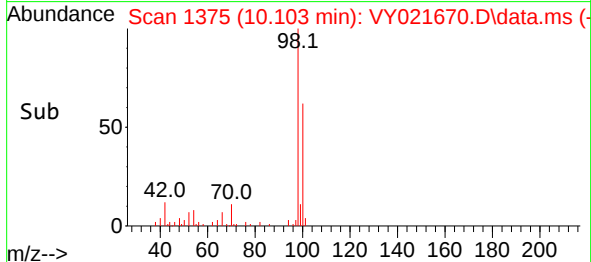
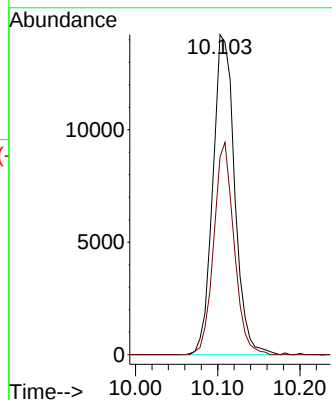
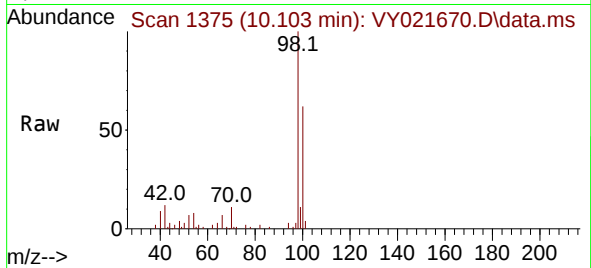




#50
Toluene-d8
Concen: 45.467 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.006 min
Lab File: VY021670.D
Acq: 27 Mar 2025 16:35

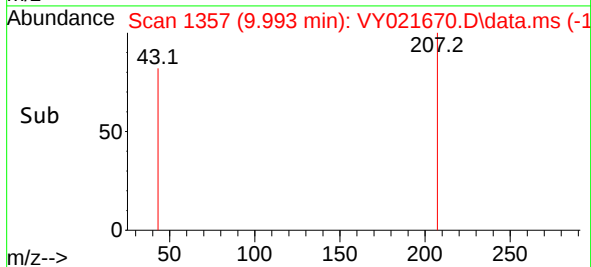
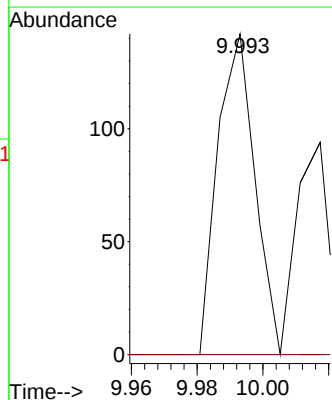
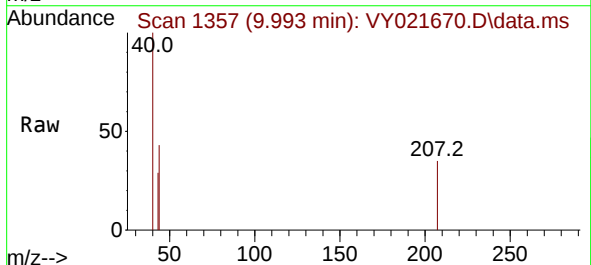
Instrument :
MSVOA_Y
ClientSampleId :
TP-7-VOC

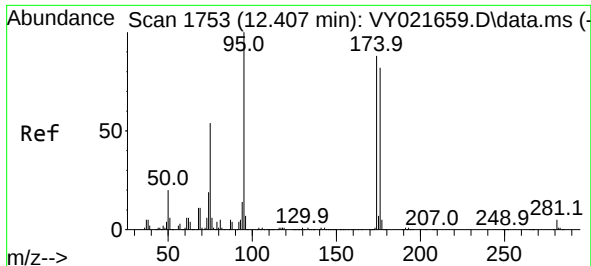
Tgt Ion: 98 Resp: 26244
Ion Ratio Lower Upper
98 100
100 61.7 52.1 78.1



#51
4-Methyl-2-Pentanone
Concen: 1.032 ug/l
RT: 9.993 min Scan# 1357
Delta R.T. -0.006 min
Lab File: VY021670.D
Acq: 27 Mar 2025 16:35

Tgt Ion: 43 Resp: 111
Ion Ratio Lower Upper
43 100
58 0.0 31.5 47.3#

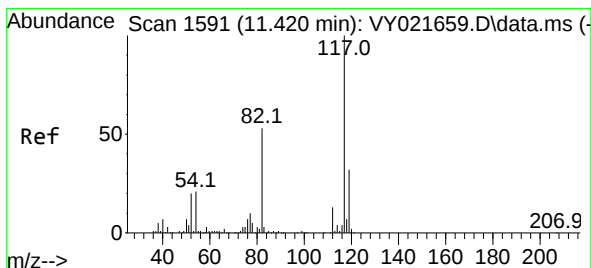
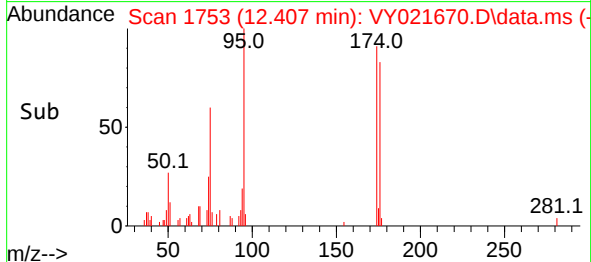
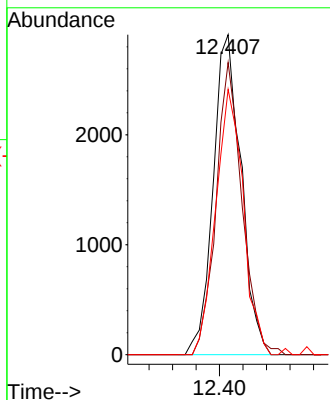
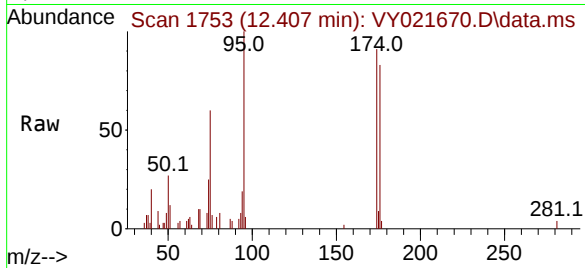




#62
4-Bromofluorobenzene
Concen: 24.523 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. -0.000 min
Lab File: VY021670.D
Acq: 27 Mar 2025 16:35

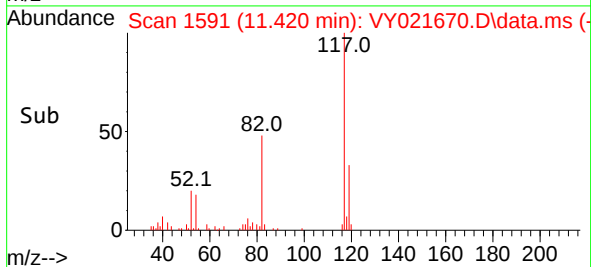
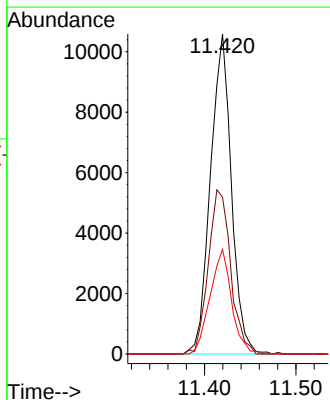
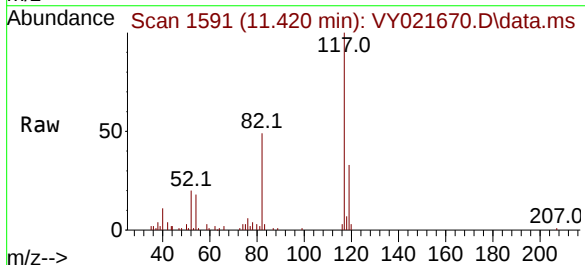
Instrument :
MSVOA_Y
ClientSampleId :
TP-7-VOC

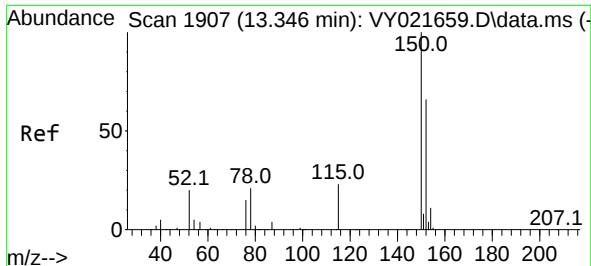
Tgt Ion: 95 Resp: 4788
Ion Ratio Lower Upper
95 100
174 85.7 0.0 170.8
176 82.0 0.0 162.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1591
Delta R.T. -0.000 min
Lab File: VY021670.D
Acq: 27 Mar 2025 16:35

Tgt Ion: 117 Resp: 16815
Ion Ratio Lower Upper
117 100
82 49.0 42.8 64.2
119 32.7 25.7 38.5

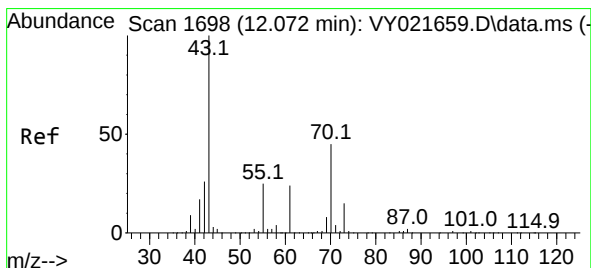
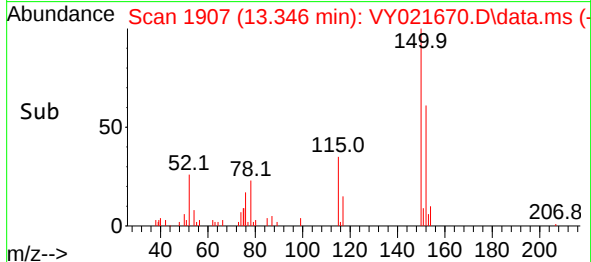
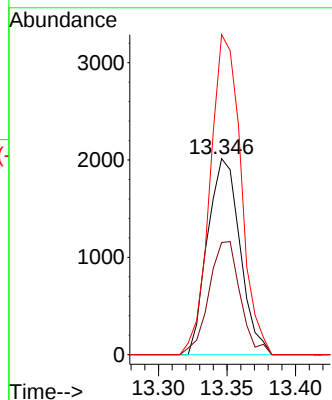
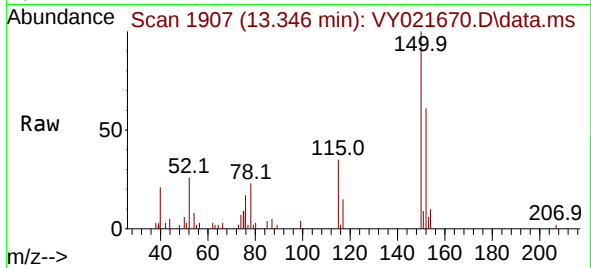




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY021670.D
Acq: 27 Mar 2025 16:35

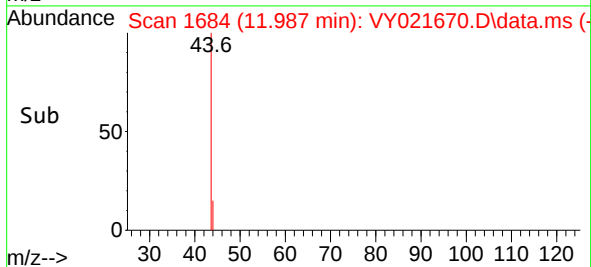
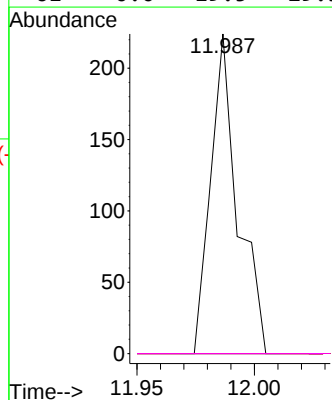
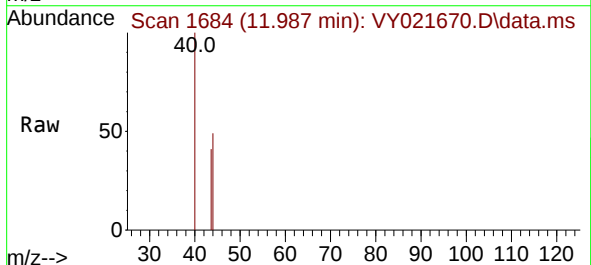
Instrument :
MSVOA_Y
ClientSampleId :
TP-7-VOC

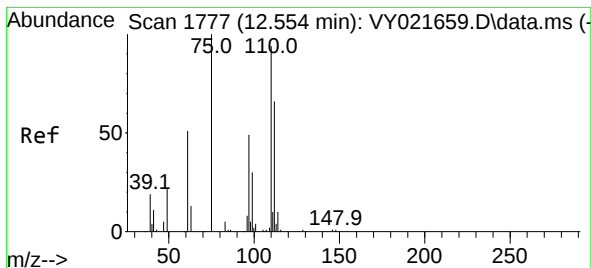
Tgt Ion:152 Resp: 3318
Ion Ratio Lower Upper
152 100
115 55.4 28.8 86.5
150 155.1 0.0 348.4



#74
N-ethyl acetate
Concen: 3.095 ug/l
RT: 11.987 min Scan# 1684
Delta R.T. -0.086 min
Lab File: VY021670.D
Acq: 27 Mar 2025 16:35

Tgt Ion: 43 Resp: 179
Ion Ratio Lower Upper
43 100
70 0.0 34.7 52.1#
55 0.0 21.2 31.8#
61 0.0 19.5 29.3#





#76

1,2,3-Trichloropropane

Concen: 75.616 ug/l

RT: 12.407 min Scan# 1753

Delta R.T. -0.147 min

Lab File: VY021670.D

Acq: 27 Mar 2025 16:35

Instrument :

MSVOA_Y

ClientSampleId :

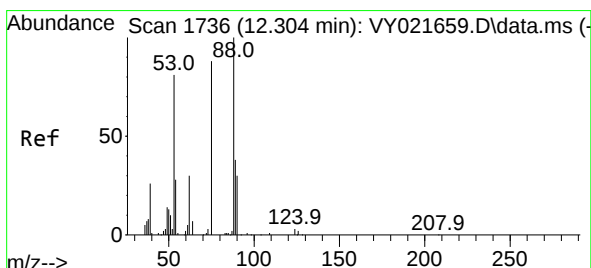
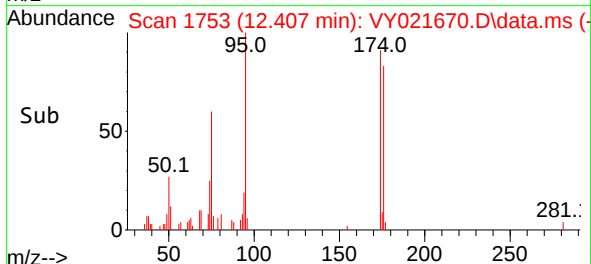
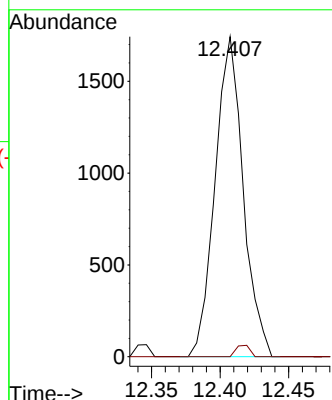
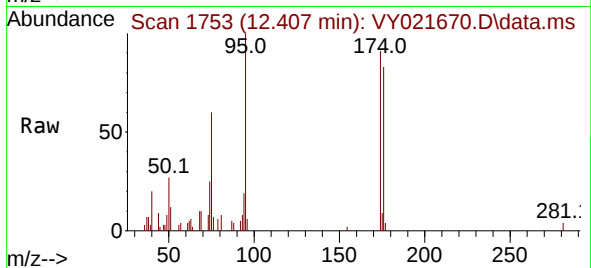
TP-7-VOC

Tgt Ion: 75 Resp: 2487

Ion Ratio Lower Upper

75 100

77 1.8 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 174.232 ug/l

RT: 12.407 min Scan# 1753

Delta R.T. 0.103 min

Lab File: VY021670.D

Acq: 27 Mar 2025 16:35

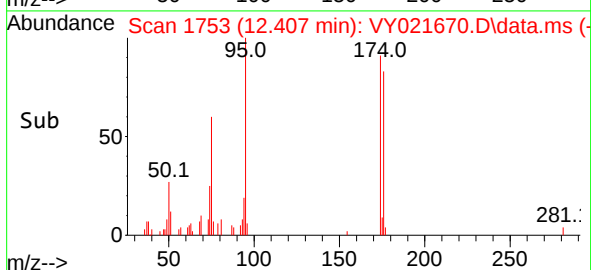
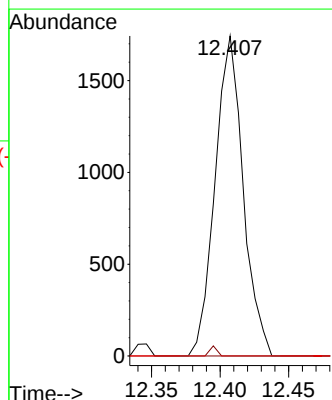
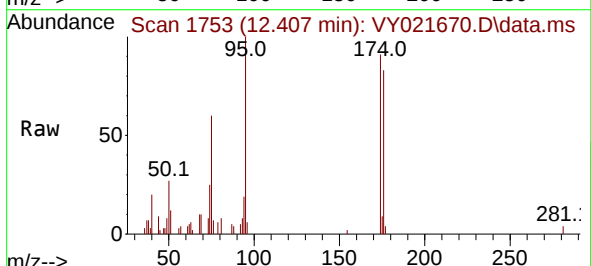
Tgt Ion: 75 Resp: 2487

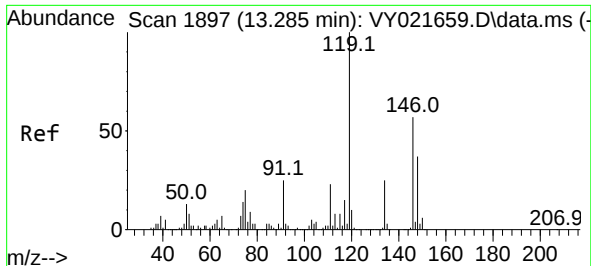
Ion Ratio Lower Upper

75 100

53 0.8 76.1 114.1#

89 0.0 36.2 54.4#

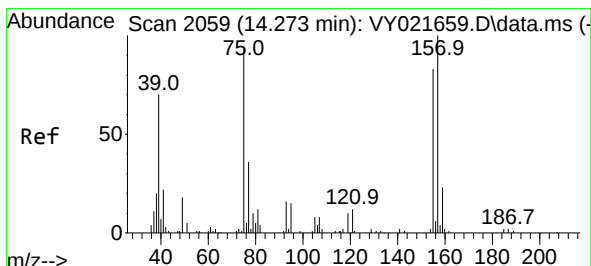
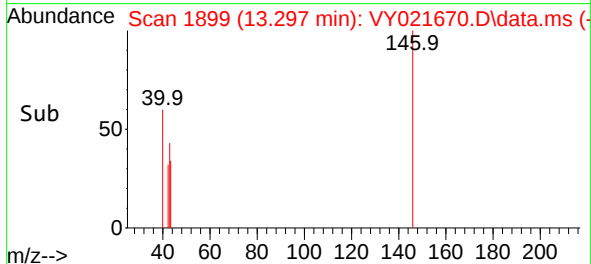
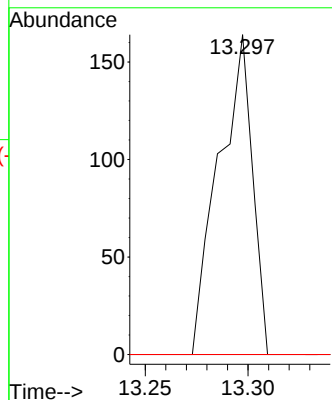
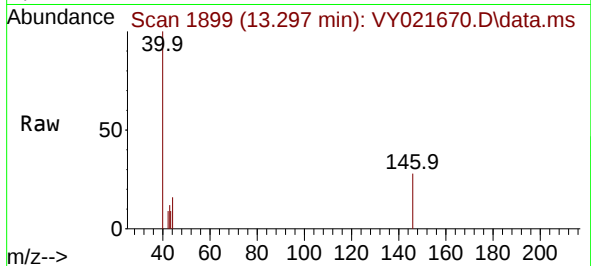




#87
 1,3-Dichlorobenzene
 Concen: 1.604 ug/l
 RT: 13.297 min Scan# 1899
 Delta R.T. 0.012 min
 Lab File: VY021670.D
 Acq: 27 Mar 2025 16:35

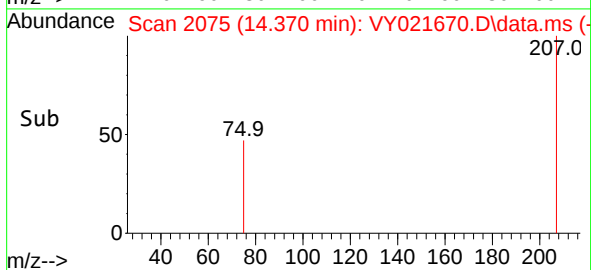
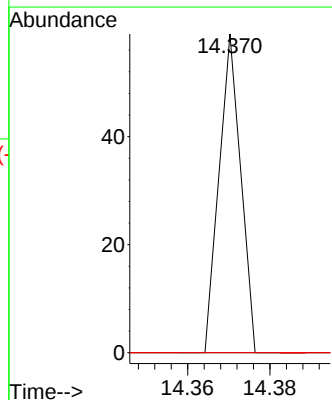
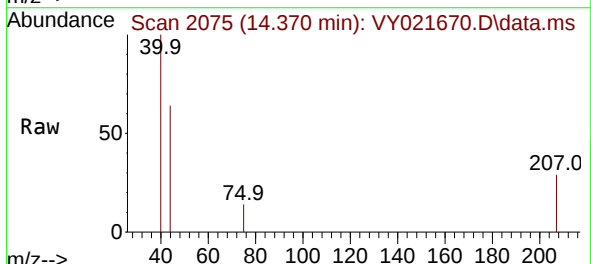
Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-7-VOC

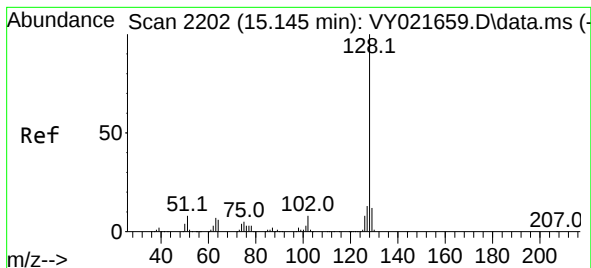
Tgt Ion:146 Resp: 187
 Ion Ratio Lower Upper
 146 100
 111 0.0 20.0 60.0#
 148 0.0 31.8 95.4#



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 3.204 ug/l
 RT: 14.370 min Scan# 2075
 Delta R.T. 0.097 min
 Lab File: VY021670.D
 Acq: 27 Mar 2025 16:35

Tgt Ion: 75 Resp: 22
 Ion Ratio Lower Upper
 75 100
 155 0.0 43.0 128.8#
 157 0.0 54.0 162.0#





#95

Naphthalene

Concen: 1.732 ug/l

RT: 15.138 min Scan# 2201

Delta R.T. -0.006 min

Lab File: VY021670.D

Acq: 27 Mar 2025 16:35

Instrument :

MSVOA_Y

ClientSampleId :

TP-7-VOC

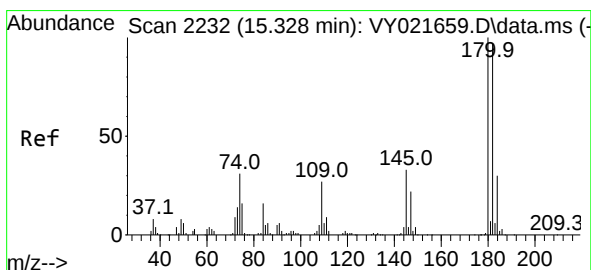
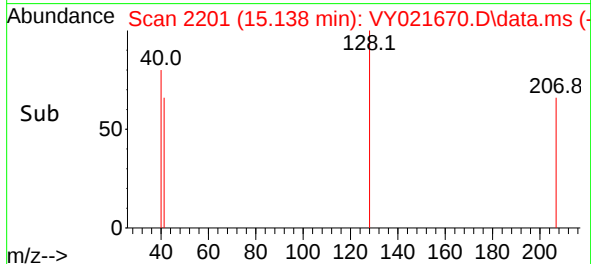
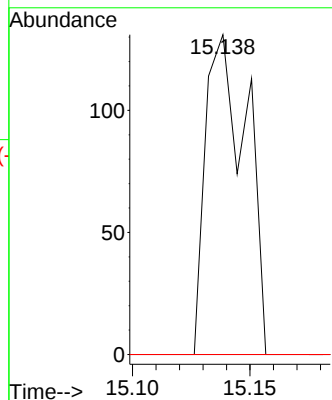
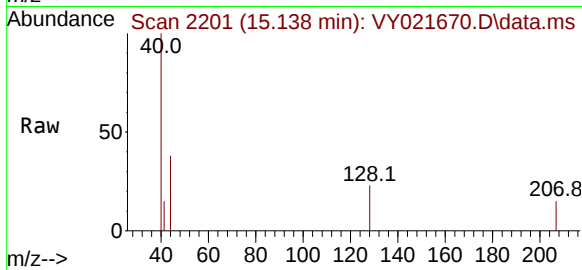
Tgt Ion:128 Resp: 158

Ion Ratio Lower Upper

128 100

127 0.0 10.8 16.2#

129 0.0 8.8 13.2#



#96

1,2,3-Trichlorobenzene

Concen: 2.088 ug/l

RT: 15.346 min Scan# 2235

Delta R.T. 0.018 min

Lab File: VY021670.D

Acq: 27 Mar 2025 16:35

Tgt Ion:180 Resp: 98

Ion Ratio Lower Upper

180 100

182 61.2 47.5 142.5

145 0.0 15.9 47.7#

