

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051625\
 Data File : VY022293.D
 Acq On : 16 May 2025 16:02
 Operator : SY/MD
 Sample : Q2003-02
 Misc : 5.78g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VOC

Quant Time: May 17 01:35:22 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 16 01:42:09 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	37846	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	58395	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	36874	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	10942	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	16277	39.352	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	78.700%
35) Dibromofluoromethane	7.628	113	15656	44.919	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	89.840%
50) Toluene-d8	10.103	98	62979	44.120	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	88.240%
62) 4-Bromofluorobenzene	12.401	95	12982	28.693	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	57.380%

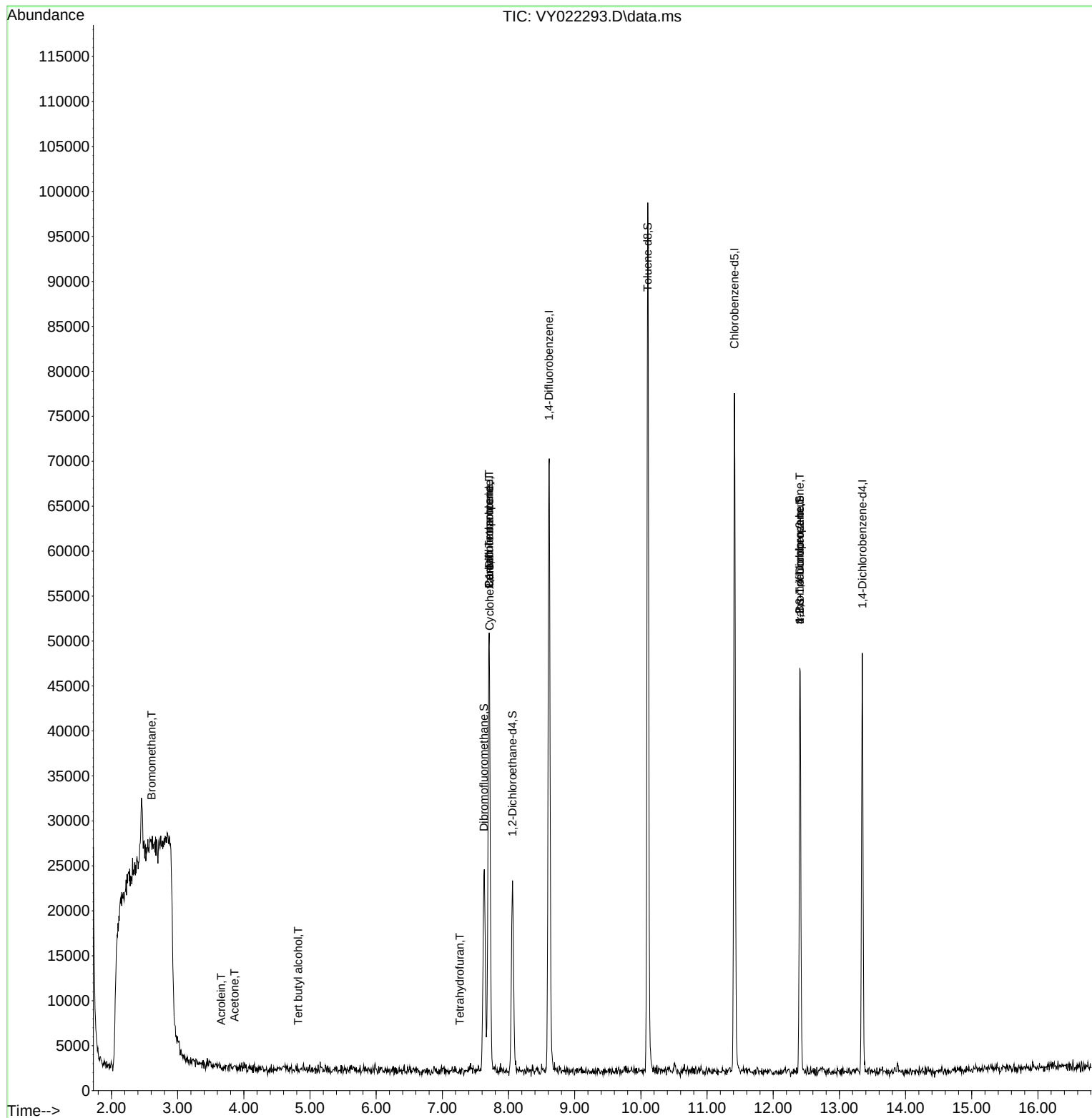
Target Compounds						Qvalue
5) Bromomethane	2.604	94	1421	1.881	ug/l #	75
11) Tert butyl alcohol	4.824	59	54	1.710	ug/l #	100
13) Acrolein	3.659	56	78	1.689	ug/l #	1
16) Acetone	3.860	43	238	3.069	ug/l #	45
29) Tetrahydrofuran	7.262	42	179	2.145	ug/l #	35
31) Cyclohexane	7.713	56	1417	1.693	ug/l #	39
36) 1,1-Dichloropropene	7.707	75	3087	5.377	ug/l #	43
38) Carbon Tetrachloride	7.707	117	3789	6.376	ug/l #	16
76) 1,2,3-Trichloropropane	12.401	75	7913	71.382	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.401	75	7913	144.602	ug/l #	12

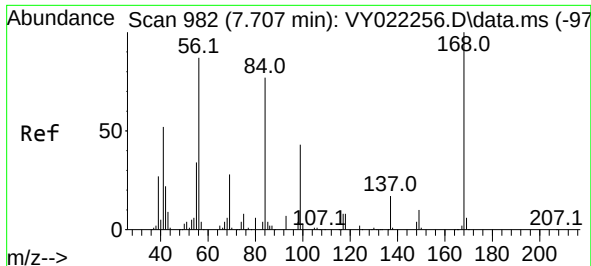
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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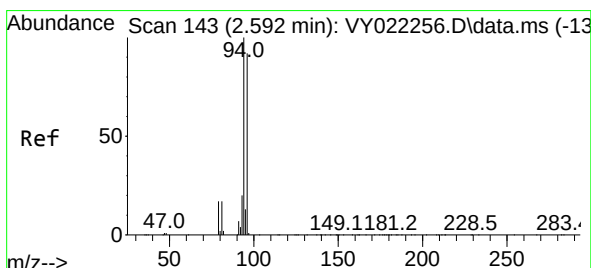
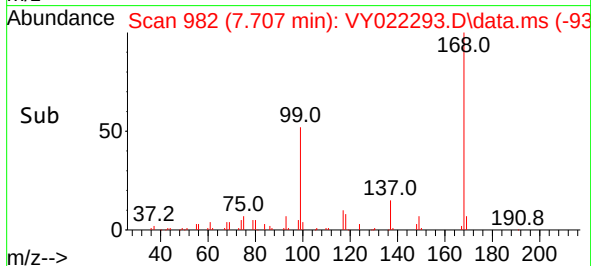
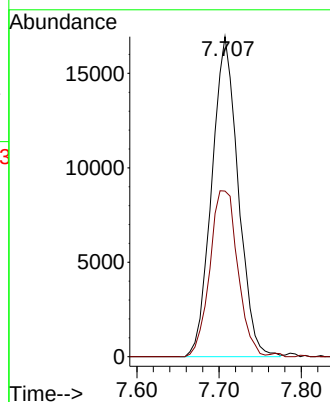
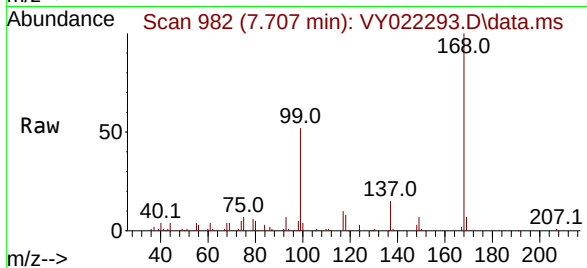




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY022293.D
Acq: 16 May 2025 16:02

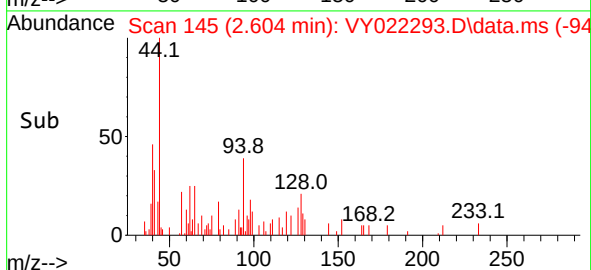
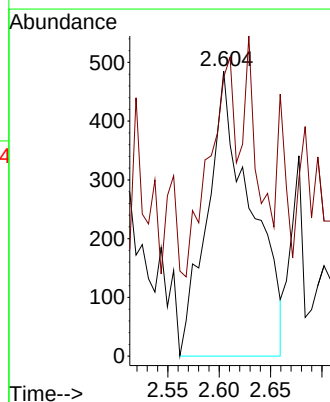
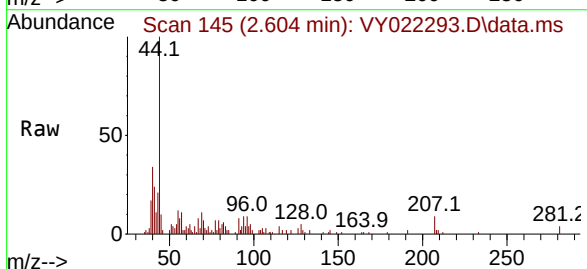
Instrument :
MSVOA_Y
ClientSampleId :
VOC

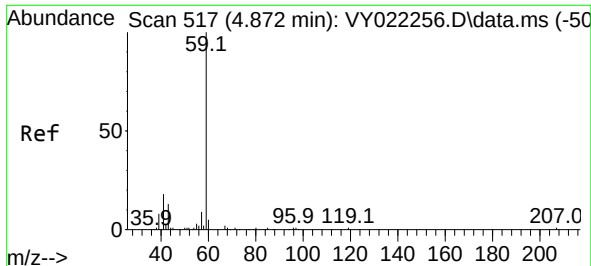
Tgt Ion:168 Resp: 37846
Ion Ratio Lower Upper
168 100
99 51.8 44.2 66.4



#5
Bromomethane
Concen: 1.881 ug/l
RT: 2.604 min Scan# 145
Delta R.T. 0.012 min
Lab File: VY022293.D
Acq: 16 May 2025 16:02

Tgt Ion: 94 Resp: 1421
Ion Ratio Lower Upper
94 100
96 68.0 73.4 110.0#

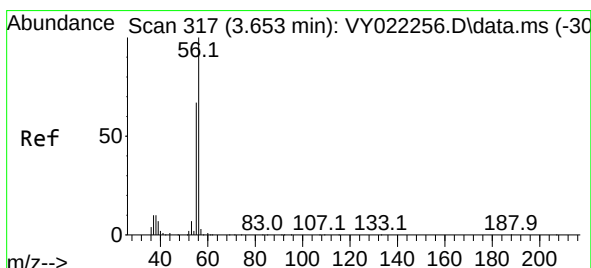
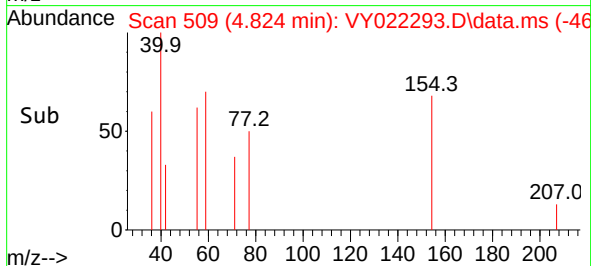
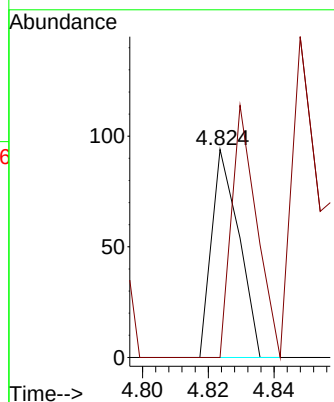
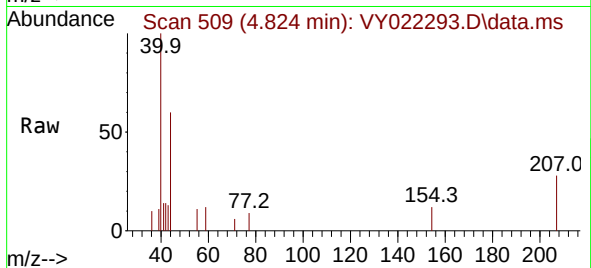




#11
Tert butyl alcohol
Concen: 1.710 ug/l
RT: 4.824 min Scan# 509
Delta R.T. -0.049 min
Lab File: VY022293.D
Acq: 16 May 2025 16:02

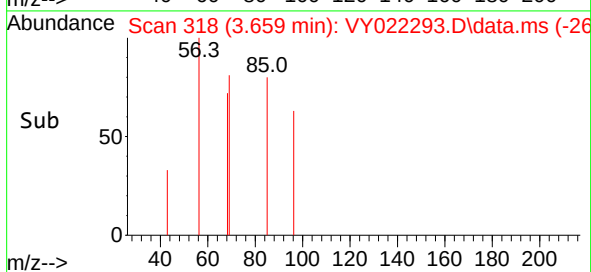
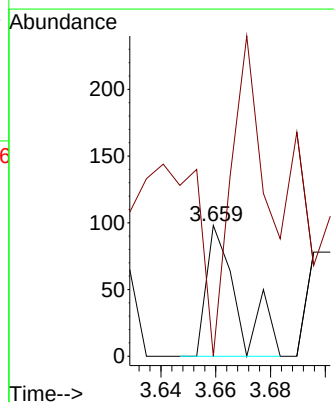
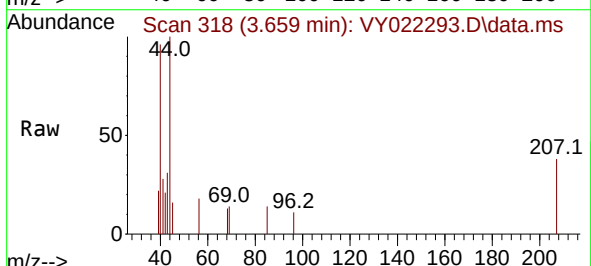
Instrument :
MSVOA_Y
ClientSampleId :
VOC

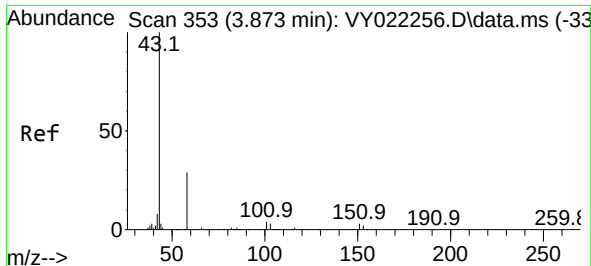
Tgt Ion: 59 Resp: 54
Ion Ratio Lower Upper
59 100
57 111.1 0.0 0.0#



#13
Acrolein
Concen: 1.689 ug/l
RT: 3.659 min Scan# 318
Delta R.T. 0.006 min
Lab File: VY022293.D
Acq: 16 May 2025 16:02

Tgt Ion: 56 Resp: 78
Ion Ratio Lower Upper
56 100
55 274.4 55.6 83.4#

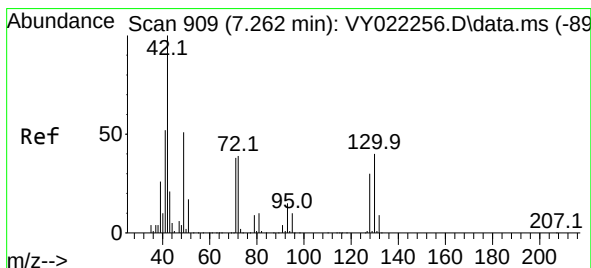
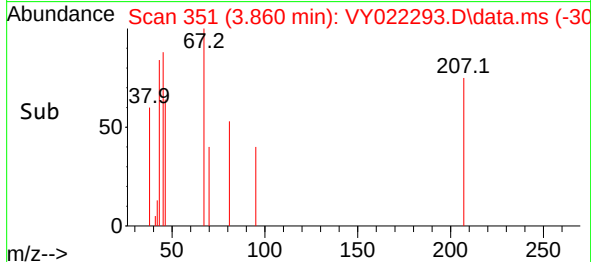
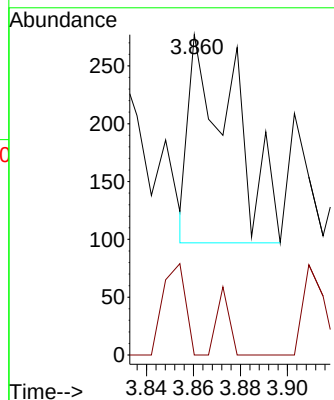
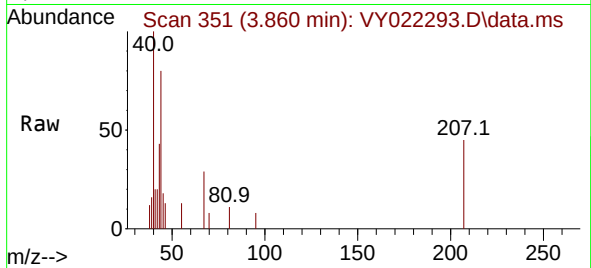




#16
Acetone
Concen: 3.069 ug/l
RT: 3.860 min Scan# 31
Delta R.T. -0.012 min
Lab File: VY022293.D
Acq: 16 May 2025 16:02

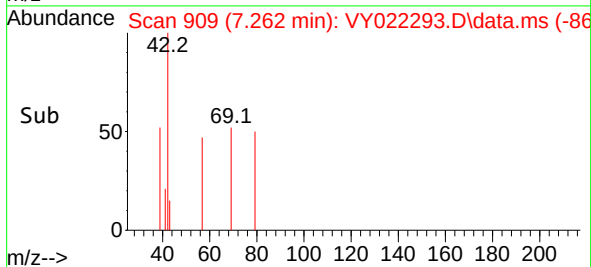
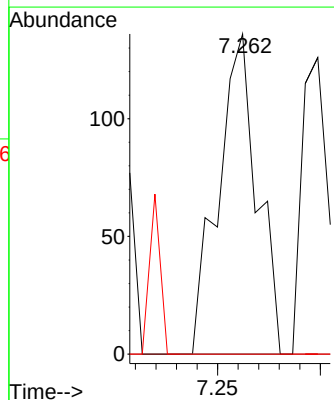
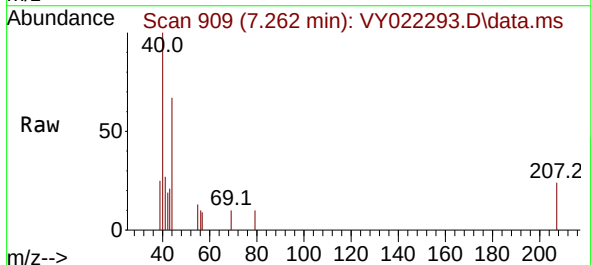
Instrument :
MSVOA_Y
ClientSampleId :
VOC

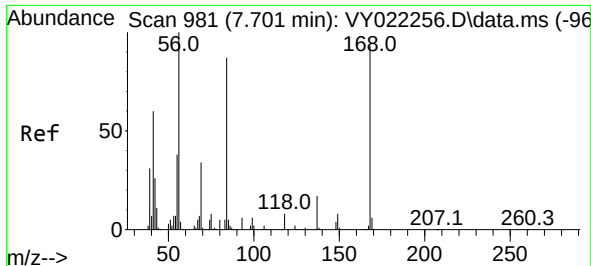
Tgt Ion: 43 Resp: 238
Ion Ratio Lower Upper
43 100
58 0.0 23.6 35.4#



#29
Tetrahydrofuran
Concen: 2.145 ug/l
RT: 7.262 min Scan# 909
Delta R.T. -0.000 min
Lab File: VY022293.D
Acq: 16 May 2025 16:02

Tgt Ion: 42 Resp: 179
Ion Ratio Lower Upper
42 100
72 0.0 33.8 50.6#
71 0.0 31.5 47.3#

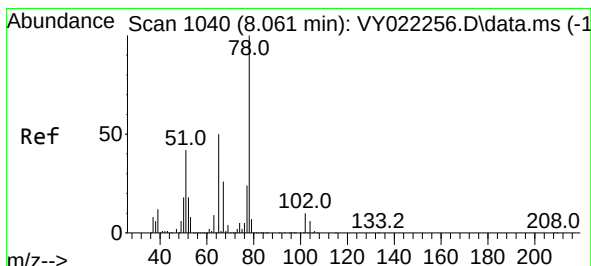
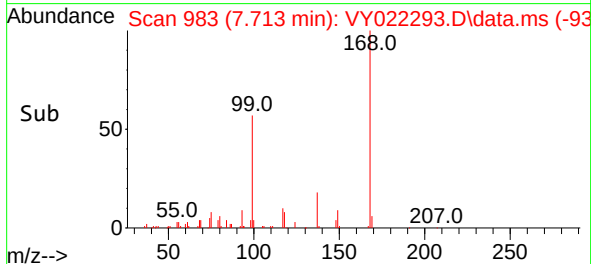
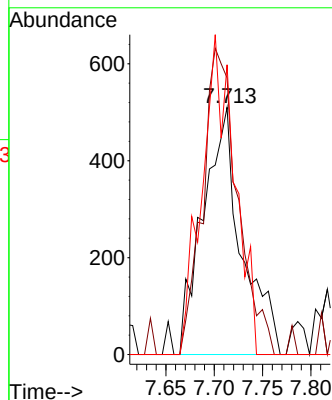
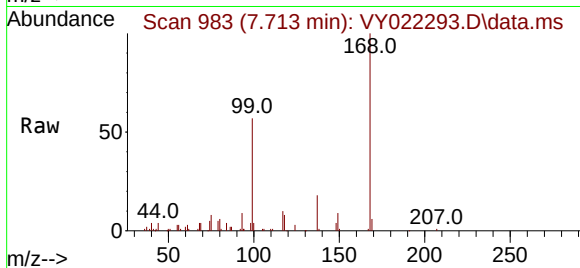




#31
Cyclohexane
Concen: 1.693 ug/l
RT: 7.713 min Scan# 981
Delta R.T. 0.012 min
Lab File: VY022293.D
Acq: 16 May 2025 16:02

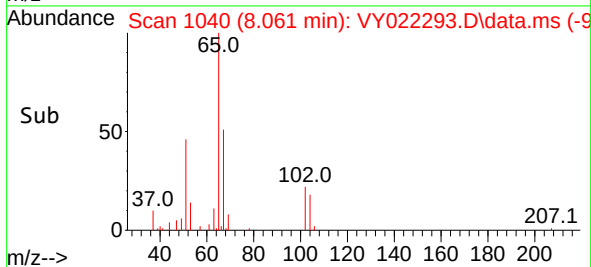
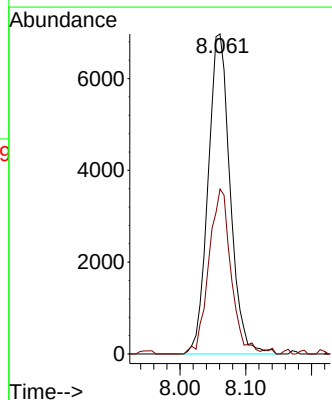
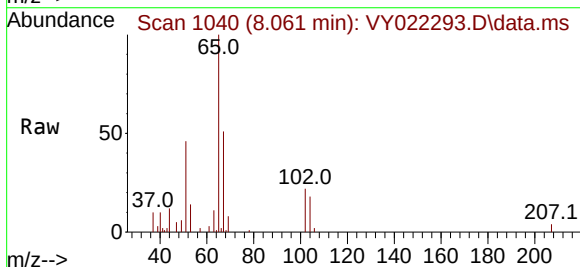
Instrument :
MSVOA_Y
ClientSampleId :
VOC

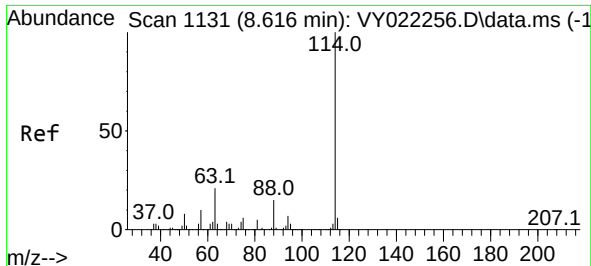
Tgt Ion: 56 Resp: 1417
Ion Ratio Lower Upper
56 100
69 112.0 27.4 41.2#
84 117.3 70.0 105.0#



#33
1,2-Dichloroethane-d4
Concen: 39.352 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VY022293.D
Acq: 16 May 2025 16:02

Tgt Ion: 65 Resp: 16277
Ion Ratio Lower Upper
65 100
67 51.6 0.0 104.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.609 min Scan# 1131

Delta R.T. -0.006 min

Lab File: VY022293.D

Acq: 16 May 2025 16:02

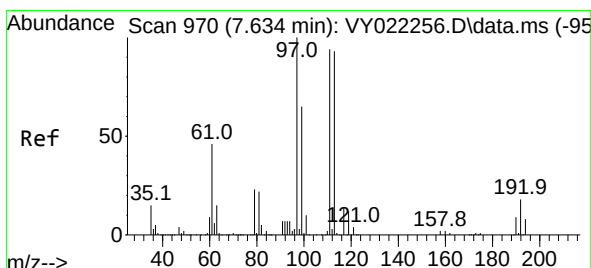
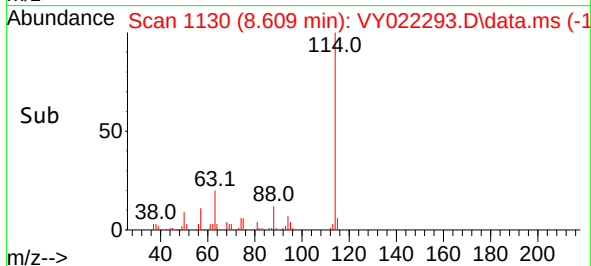
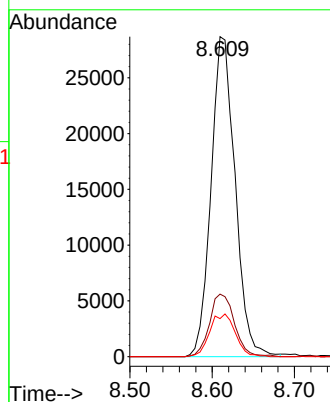
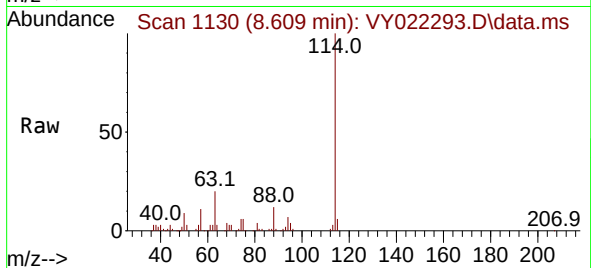
Instrument :

MSVOA_Y

ClientSampleId :

VOC

Tgt Ion:114	Resp:	58395
Ion	Ratio	Lower Upper
114	100	
63	19.5	0.0 41.0
88	11.9	0.0 29.4



#35

Dibromofluoromethane

Concen: 44.919 ug/l

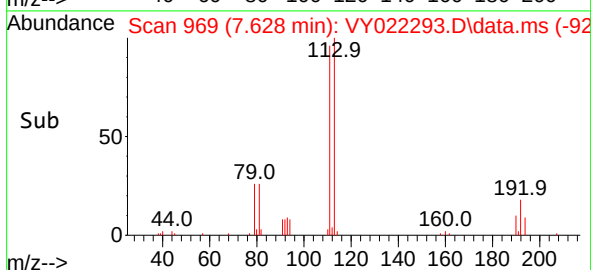
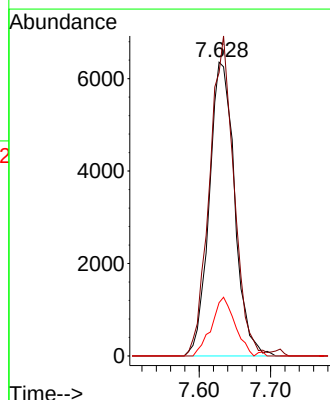
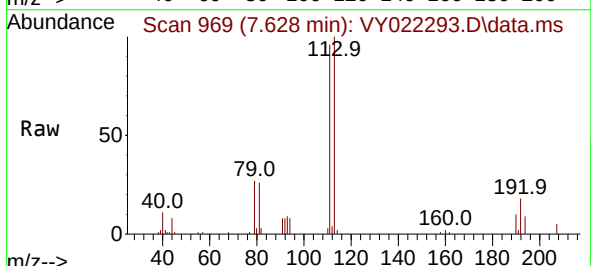
RT: 7.628 min Scan# 969

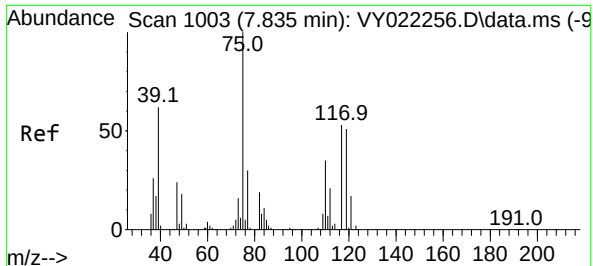
Delta R.T. -0.006 min

Lab File: VY022293.D

Acq: 16 May 2025 16:02

Tgt Ion:113	Resp:	15656
Ion	Ratio	Lower Upper
113	100	
111	105.1	82.6 123.8
192	18.5	15.2 22.8

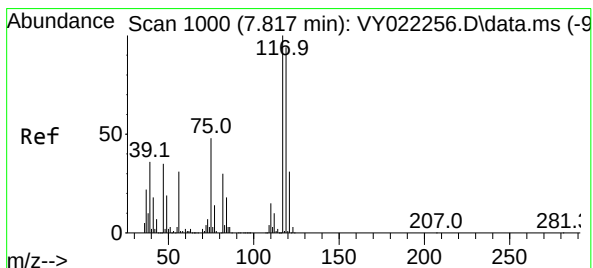
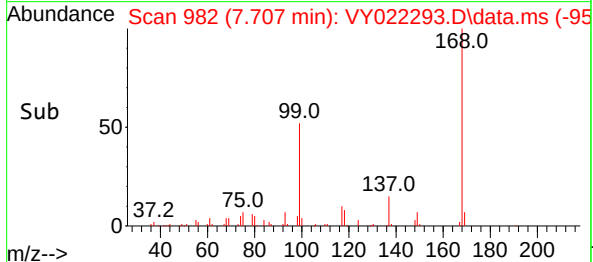
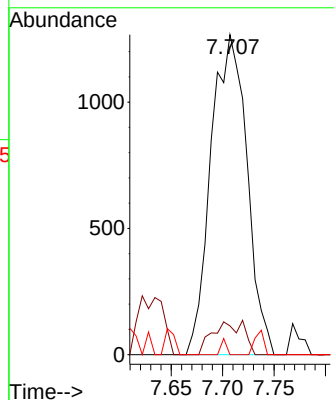
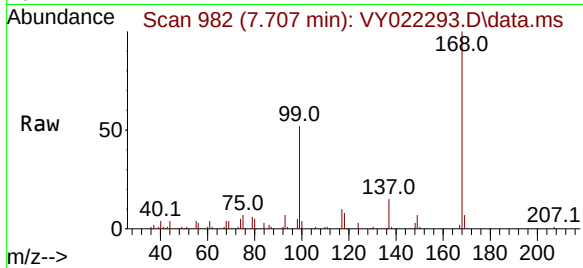




#36
1,1-Dichloropropene
Concen: 5.377 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.128 min
Lab File: VY022293.D
Acq: 16 May 2025 16:02

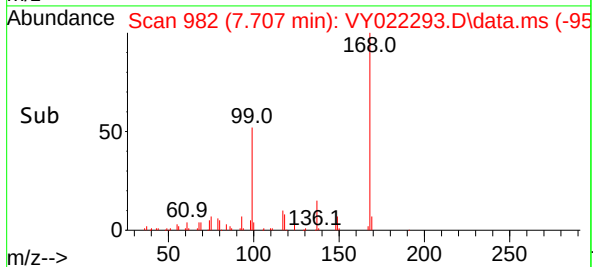
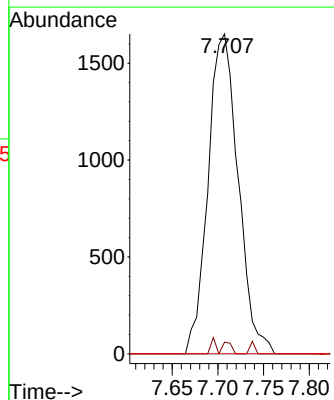
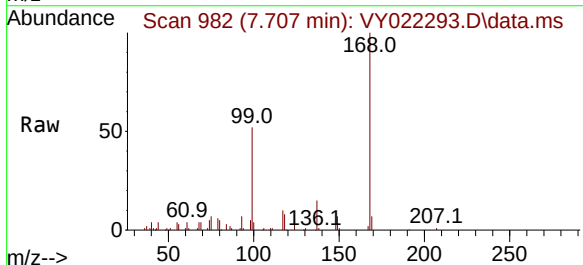
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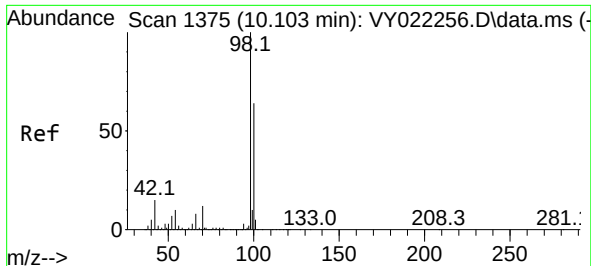
Tgt Ion: 75 Resp: 3087
Ion Ratio Lower Upper
75 100
110 0.0 16.6 49.8#
77 0.7 24.6 37.0#



#38
Carbon Tetrachloride
Concen: 6.376 ug/l
RT: 7.707 min Scan# 982
Delta R.T. -0.110 min
Lab File: VY022293.D
Acq: 16 May 2025 16:02

Tgt Ion: 117 Resp: 3789
Ion Ratio Lower Upper
117 100
119 3.7 75.3 112.9#
121 0.0 24.7 37.1#

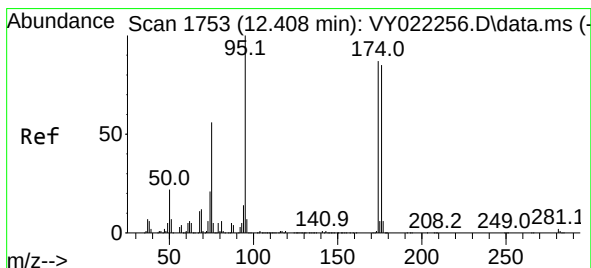
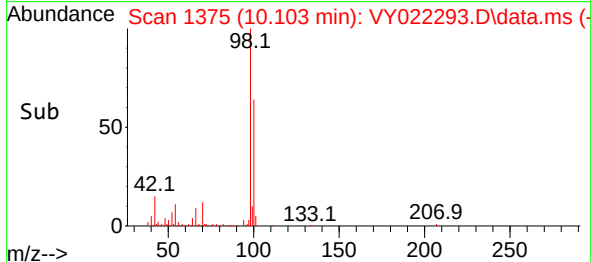
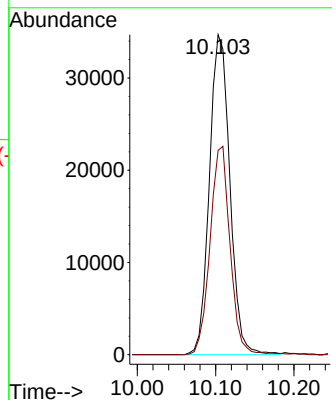
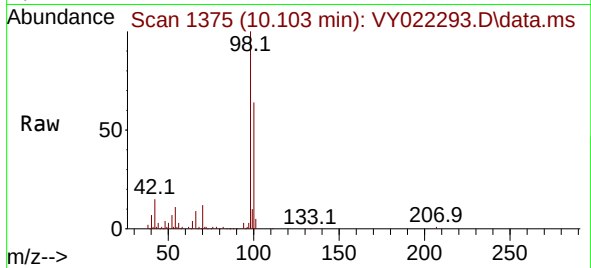




#50
Toluene-d8
Concen: 44.120 ug/l
RT: 10.103 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY022293.D
Acq: 16 May 2025 16:02

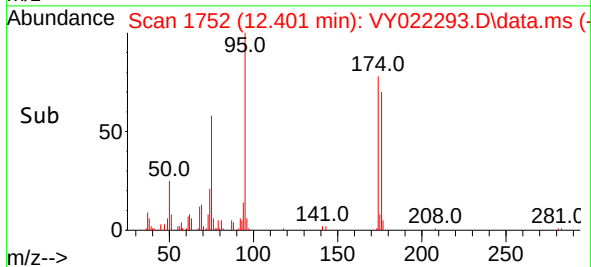
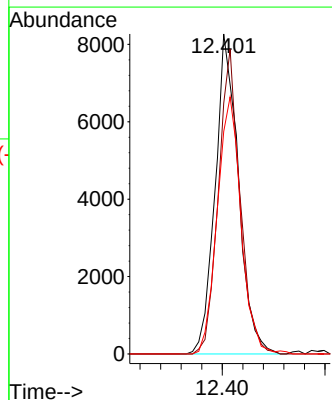
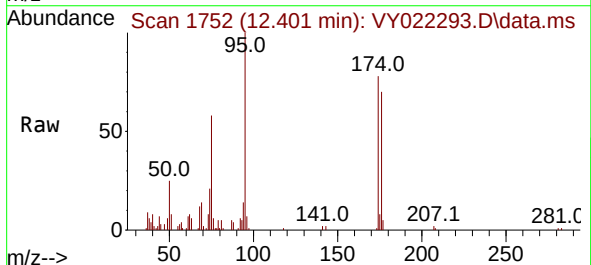
Instrument :
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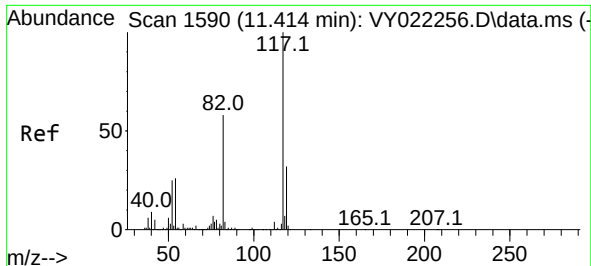
Tgt Ion: 98 Resp: 62979
Ion Ratio Lower Upper
98 100
100 63.7 51.8 77.8



#62
4-Bromofluorobenzene
Concen: 28.693 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY022293.D
Acq: 16 May 2025 16:02

Tgt Ion: 95 Resp: 12982
Ion Ratio Lower Upper
95 100
174 88.1 0.0 166.8
176 82.1 0.0 160.8

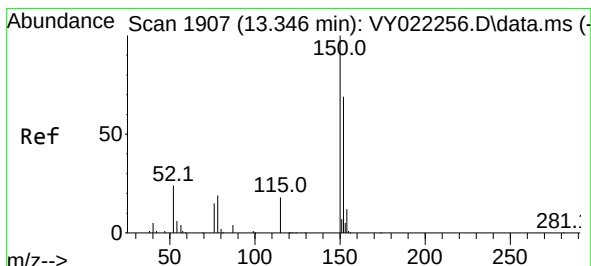
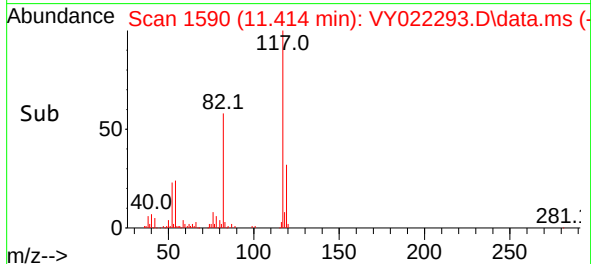
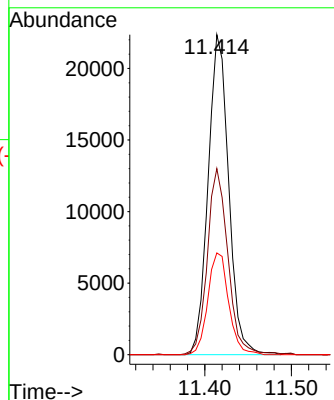
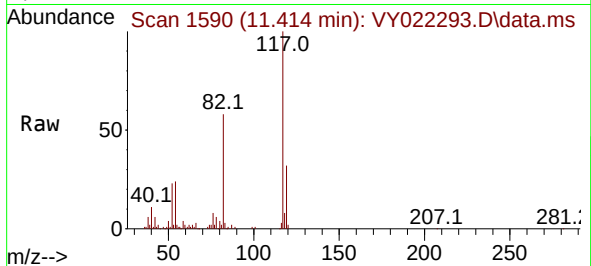




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 117
Delta R.T. -0.000 min
Lab File: VY022293.D
Acq: 16 May 2025 16:02

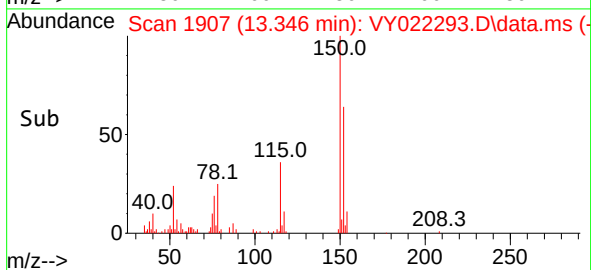
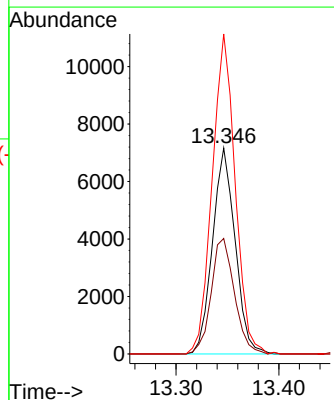
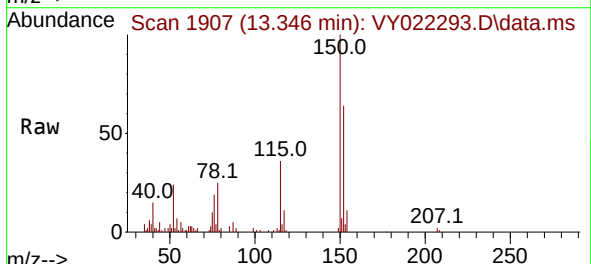
Instrument :
MSVOA_Y
ClientSampleId :
VOC

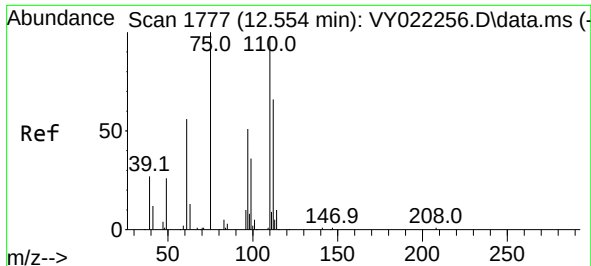
Tgt Ion:117	Resp:	36874
Ion	Ratio	Lower Upper
117	100	
82	58.2	46.6 70.0
119	31.8	25.8 38.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY022293.D
Acq: 16 May 2025 16:02

Tgt Ion:152	Resp:	10942
Ion	Ratio	Lower Upper
152	100	
115	57.8	29.4 88.2
150	157.4	0.0 353.8

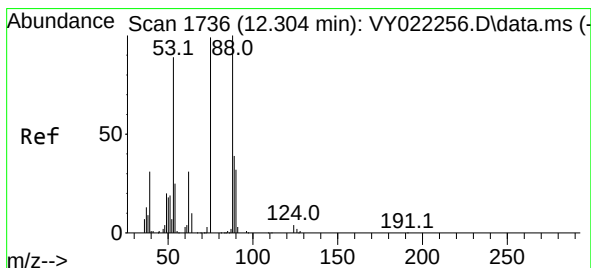
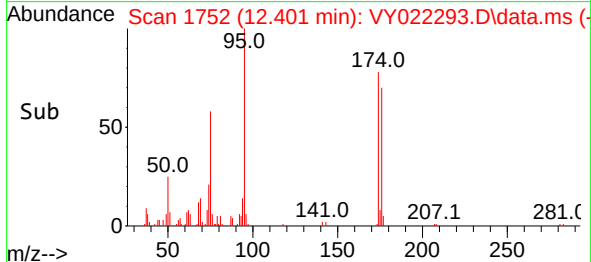
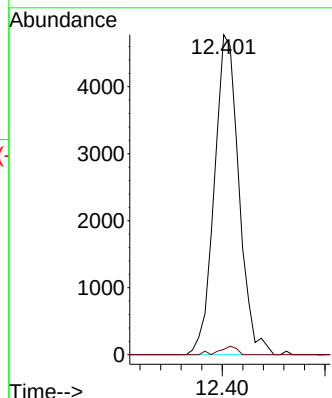
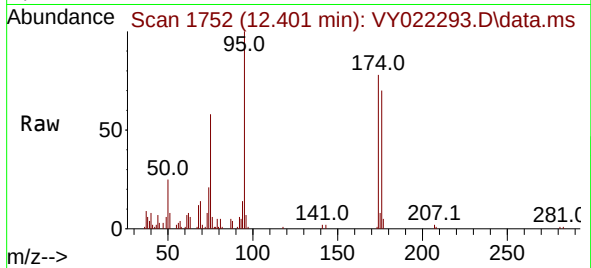




#76
1,2,3-Trichloropropane
Concen: 71.382 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.152 min
Lab File: VY022293.D
Acq: 16 May 2025 16:02

Instrument :
MSVOA_Y
ClientSampleId :
VOC

Tgt Ion: 75 Resp: 7913
Ion Ratio Lower Upper
75 100
77 1.9 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 144.602 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.098 min
Lab File: VY022293.D
Acq: 16 May 2025 16:02

Tgt Ion: 75 Resp: 7913
Ion Ratio Lower Upper
75 100
53 0.0 75.8 113.8#
89 0.0 36.2 54.2#

