

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100825\
 Data File : VY023401.D
 Acq On : 08 Oct 2025 12:34
 Operator : SY/MD
 Sample : Q3304-03
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Oct 09 03:11:40 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 08 05:12:50 2025
 Response via : Initial Calibration

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

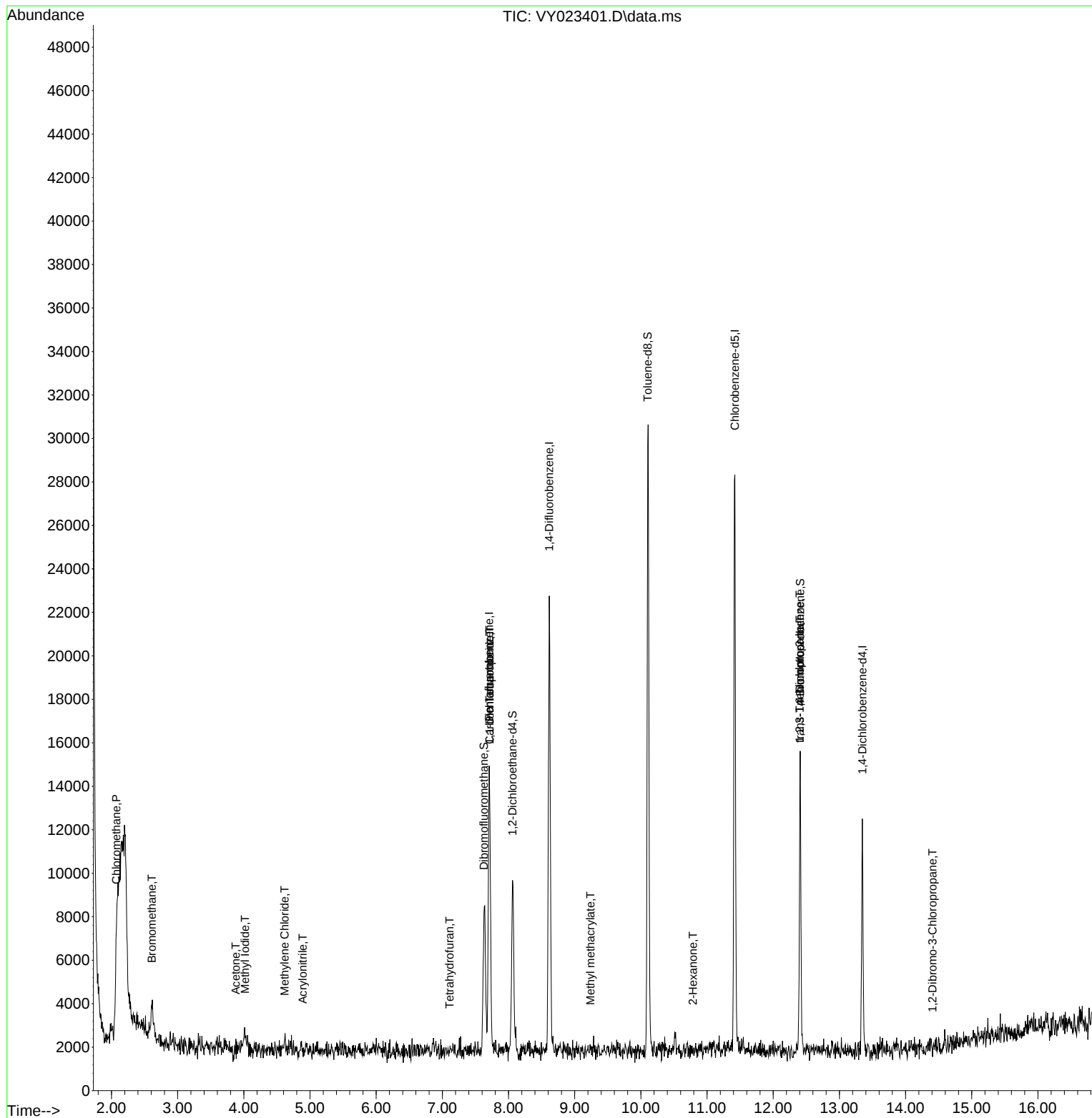
Internal Standards						
1) Pentafluorobenzene	7.707	168	11413	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	19229	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	15659	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	2980	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	6590	69.051	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	138.100%
35) Dibromofluoromethane	7.628	113	5205	44.053	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	88.100%
50) Toluene-d8	10.103	98	20774	47.212	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	94.420%
62) 4-Bromofluorobenzene	12.408	95	4242	29.201	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	58.400%
Target Compounds						Qvalue
3) Chloromethane	2.074	50	448	4.003	ug/l	96
5) Bromomethane	2.611	94	1015	8.298	ug/l	89
10) Methyl Iodide	4.019	142	852	7.287	ug/l #	92
15) Acrylonitrile	4.891	53	31	1.532	ug/l #	18
16) Acetone	3.879	43	216	9.507	ug/l #	40
20) Methylene Chloride	4.616	84	269	2.189	ug/l #	52
29) Tetrahydrofuran	7.110	42	41	2.607	ug/l #	26
36) 1,1-Dichloropropene	7.713	75	812	5.191	ug/l #	39
38) Carbon Tetrachloride	7.713	117	909	4.793	ug/l #	12
48) Methyl methacrylate	9.238	41	72	1.240	ug/l #	35
59) 2-Hexanone	10.786	43	46	1.008	ug/l #	20
76) 1,2,3-Trichloropropane	12.402	75	1903	72.381	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.402	75	1903	177.491	ug/l #	15
92) 1,2-Dibromo-3-Chloropr...	14.407	75	38	7.210	ug/l #	1

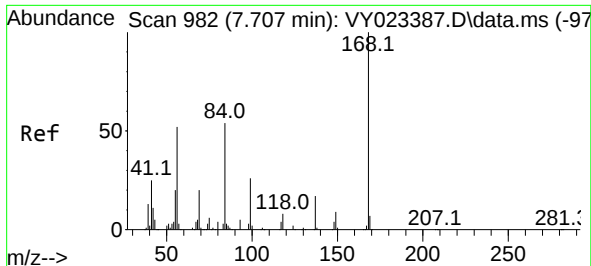
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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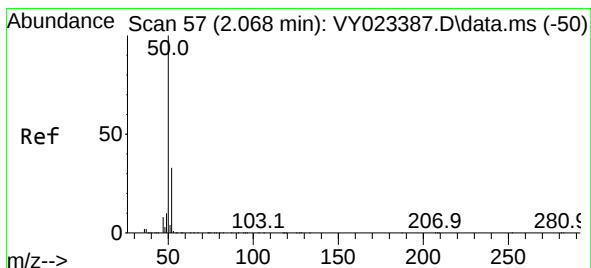
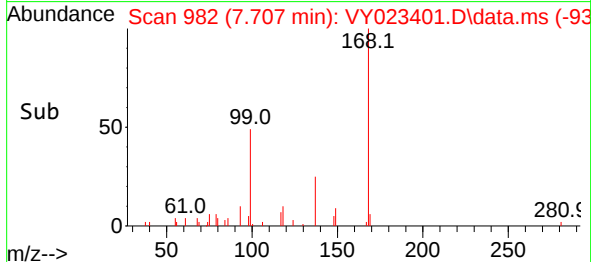
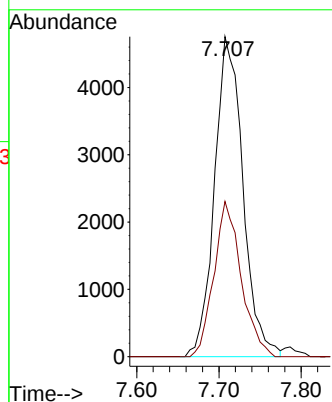
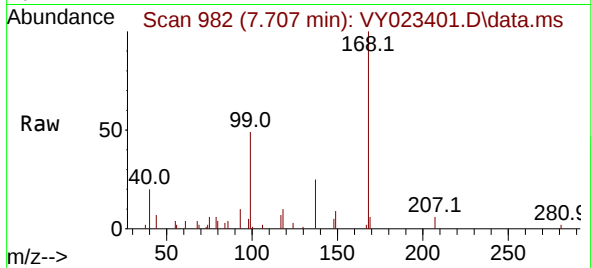




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 982
Delta R.T. 0.000 min
Lab File: VY023401.D
Acq: 08 Oct 2025 12:34

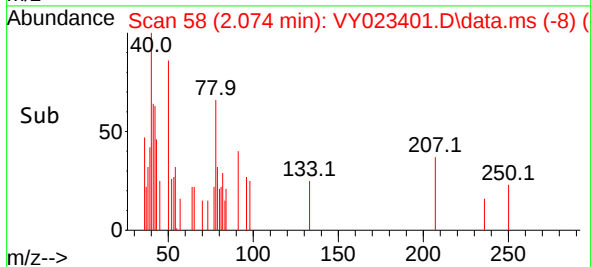
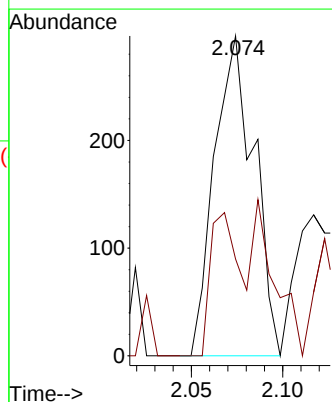
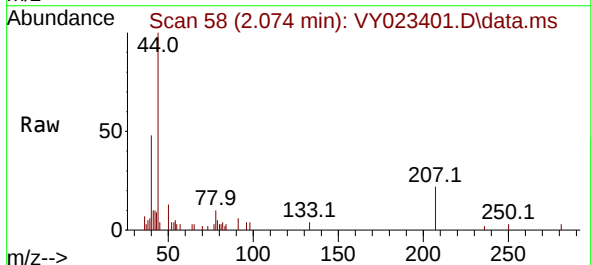
Instrument :
MSVOA_Y
ClientSampleId :

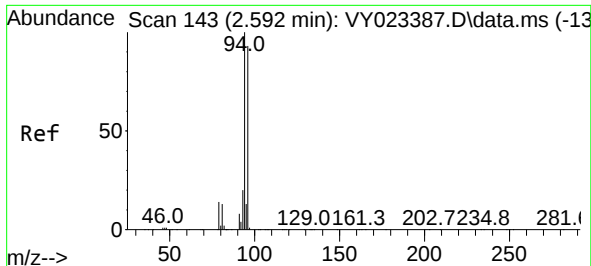
Tgt Ion:168 Resp: 11413
Ion Ratio Lower Upper
168 100
99 48.5 39.7 59.5



#3
Chloromethane
Concen: 4.003 ug/l
RT: 2.074 min Scan# 58
Delta R.T. 0.006 min
Lab File: VY023401.D
Acq: 08 Oct 2025 12:34

Tgt Ion: 50 Resp: 448
Ion Ratio Lower Upper
50 100
52 30.3 26.2 39.2

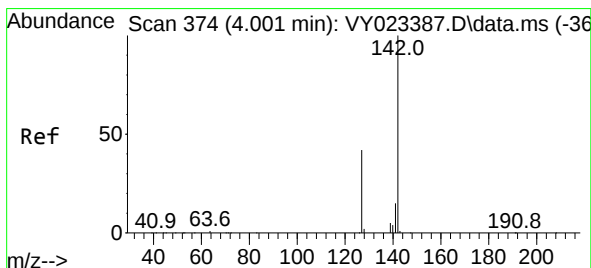
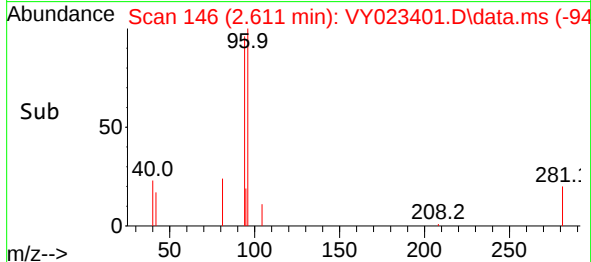
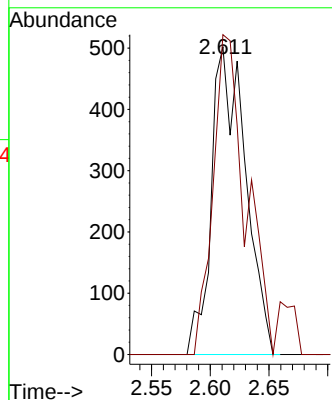
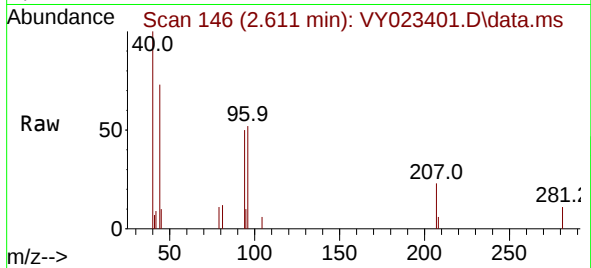




#5
Bromomethane
Concen: 8.298 ug/l
RT: 2.611 min Scan# 14
Delta R.T. 0.018 min
Lab File: VY023401.D
Acq: 08 Oct 2025 12:34

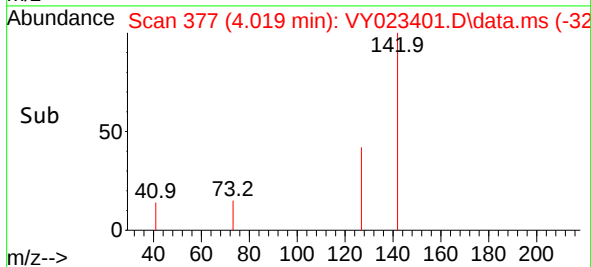
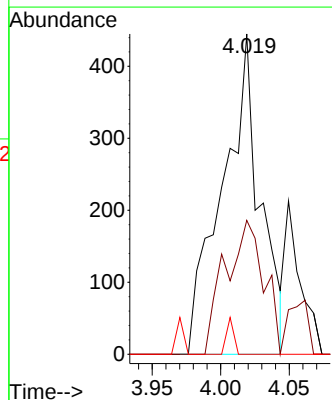
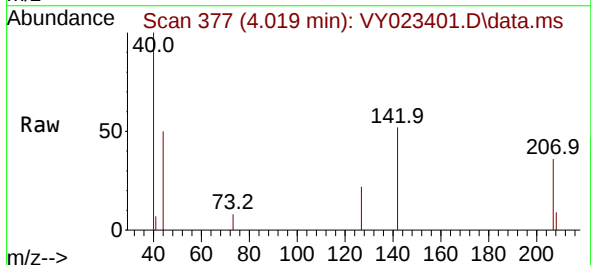
Instrument :
MSVOA_Y
ClientSampleId :

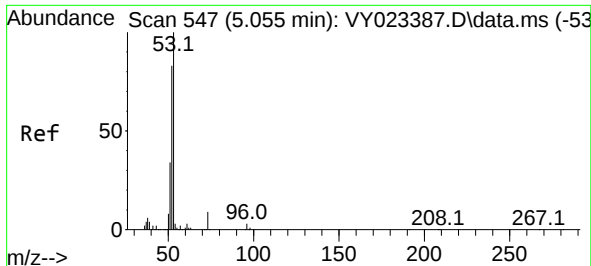
Tgt Ion: 94 Resp: 1015
Ion Ratio Lower Upper
94 100
96 104.0 74.5 111.7



#10
Methyl Iodide
Concen: 7.287 ug/l
RT: 4.019 min Scan# 377
Delta R.T. 0.018 min
Lab File: VY023401.D
Acq: 08 Oct 2025 12:34

Tgt Ion: 142 Resp: 852
Ion Ratio Lower Upper
142 100
127 42.8 34.8 52.2
141 2.2 11.6 17.4#

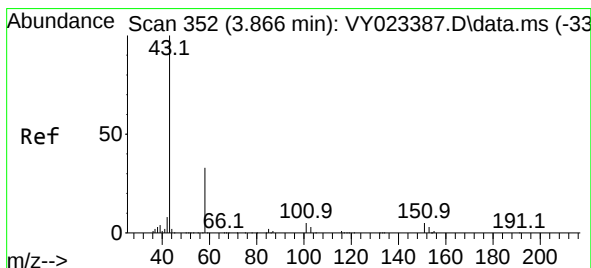
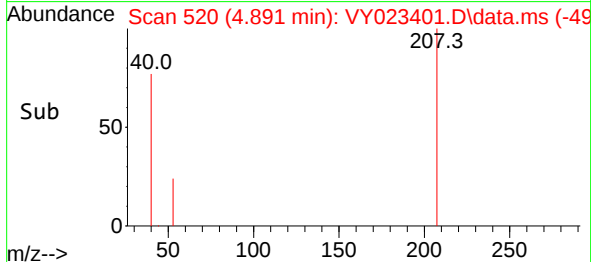
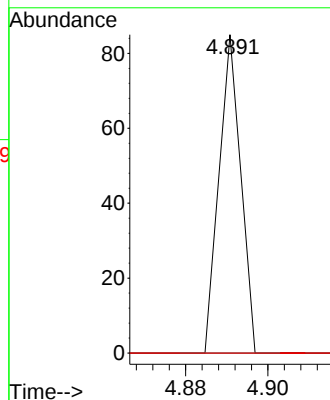
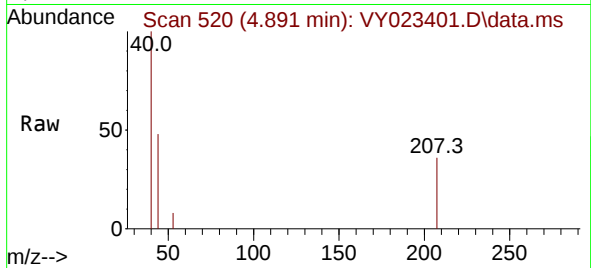




#15
Acrylonitrile
Concen: 1.532 ug/l
RT: 4.891 min Scan# 51
Delta R.T. -0.165 min
Lab File: VY023401.D
Acq: 08 Oct 2025 12:34

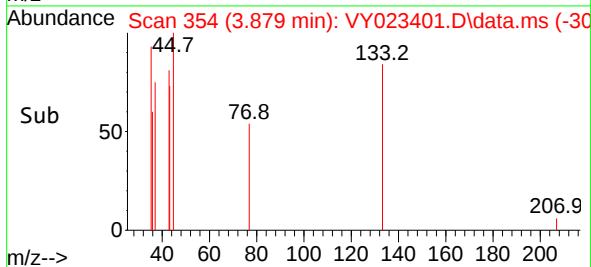
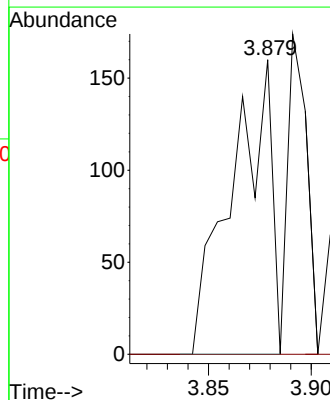
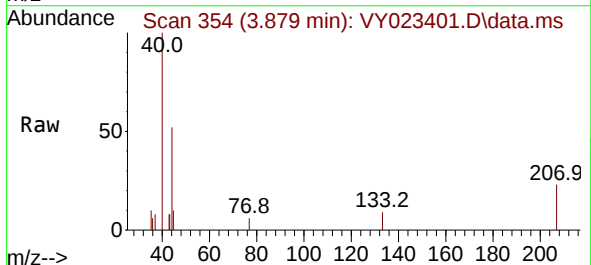
Instrument :
MSVOA_Y
ClientSampleId :

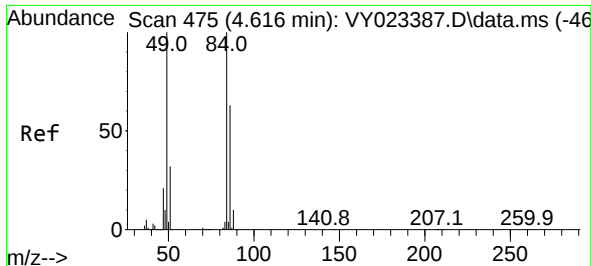
Tgt Ion: 53 Resp: 31
Ion Ratio Lower Upper
53 100
52 0.0 64.6 97.0#
51 0.0 29.5 44.3#



#16
Acetone
Concen: 9.507 ug/l
RT: 3.879 min Scan# 354
Delta R.T. 0.012 min
Lab File: VY023401.D
Acq: 08 Oct 2025 12:34

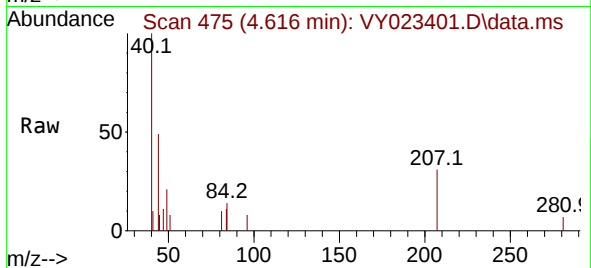
Tgt Ion: 43 Resp: 216
Ion Ratio Lower Upper
43 100
58 0.0 27.7 41.5#



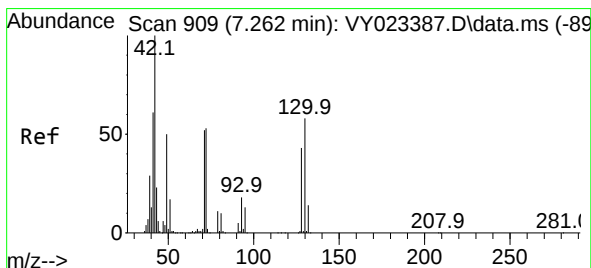
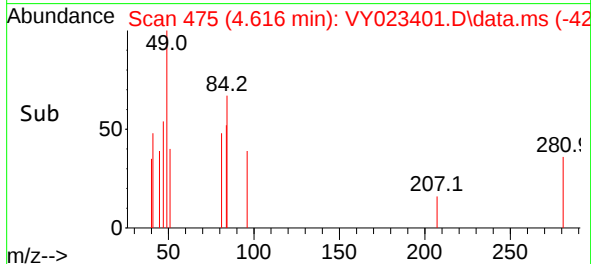
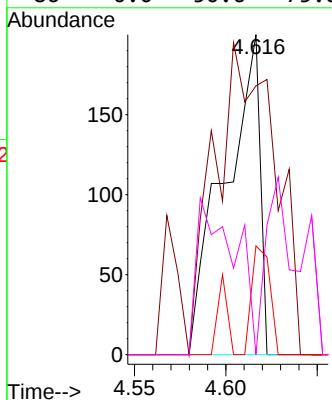


#20
Methylene Chloride
Concen: 2.189 ug/l
RT: 4.616 min Scan# 41
Delta R.T. 0.000 min
Lab File: VY023401.D
Acq: 08 Oct 2025 12:34

Instrument :
MSVOA_Y
ClientSampleId :

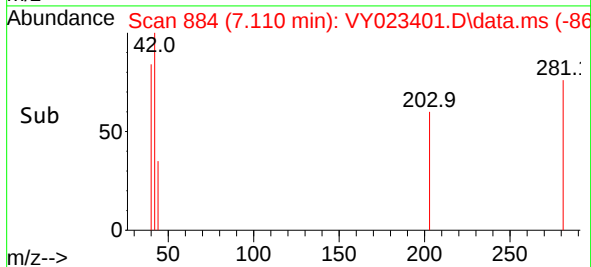
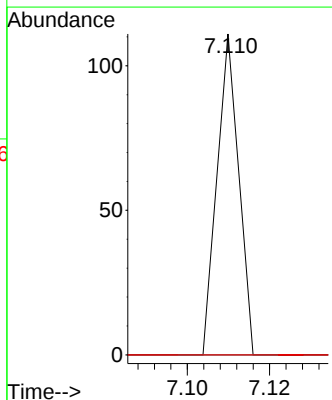
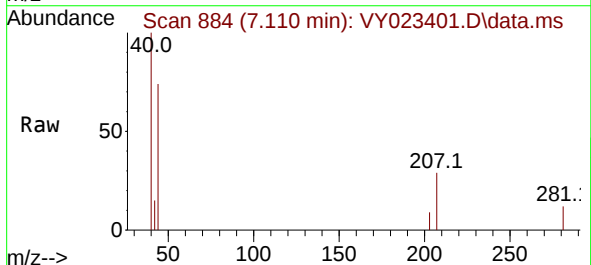


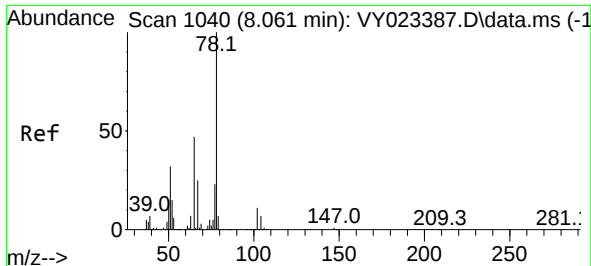
Tgt Ion: 84 Resp: 269
Ion Ratio Lower Upper
84 100
49 58.5 80.2 120.4#
51 34.0 25.9 38.9
86 0.0 50.6 75.8#



#29
Tetrahydrofuran
Concen: 2.607 ug/l
RT: 7.110 min Scan# 884
Delta R.T. -0.152 min
Lab File: VY023401.D
Acq: 08 Oct 2025 12:34

Tgt Ion: 42 Resp: 41
Ion Ratio Lower Upper
42 100
72 0.0 43.0 64.6#
71 0.0 40.1 60.1#

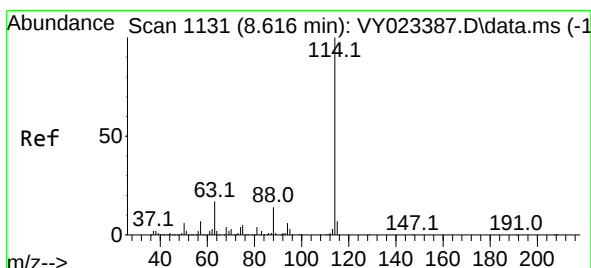
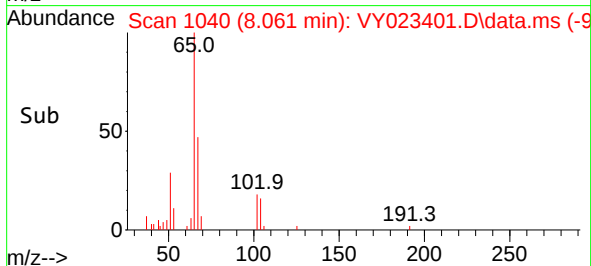
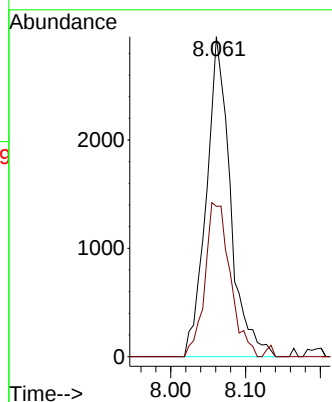
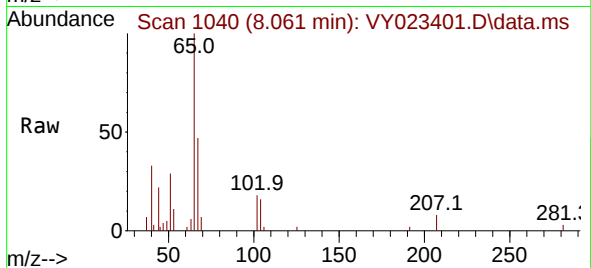




#33
 1,2-Dichloroethane-d4
 Concen: 69.051 ug/l
 RT: 8.061 min Scan# 1040
 Delta R.T. 0.000 min
 Lab File: VY023401.D
 Acq: 08 Oct 2025 12:34

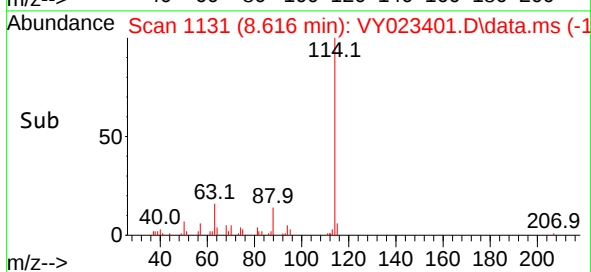
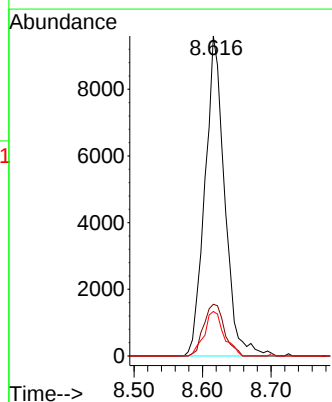
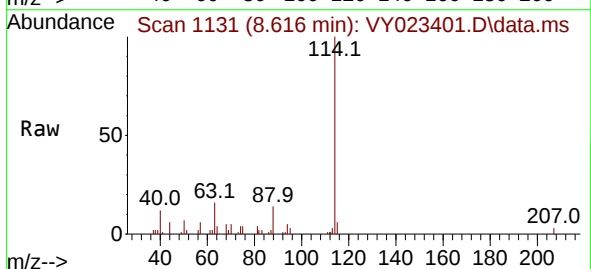
Instrument :
 MSVOA_Y
 ClientSampleId :

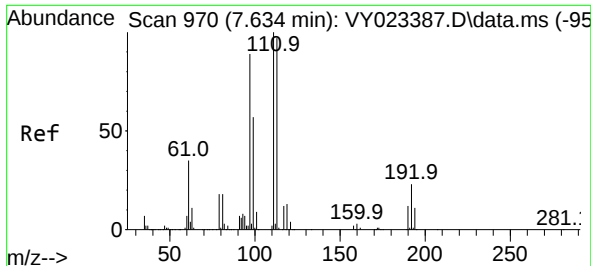
Tgt Ion: 65 Resp: 6590
 Ion Ratio Lower Upper
 65 100
 67 50.6 0.0 105.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.616 min Scan# 1131
 Delta R.T. 0.000 min
 Lab File: VY023401.D
 Acq: 08 Oct 2025 12:34

Tgt Ion: 114 Resp: 19229
 Ion Ratio Lower Upper
 114 100
 63 16.1 0.0 34.2
 88 13.9 0.0 28.4

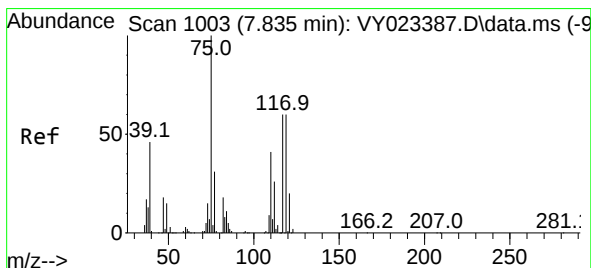
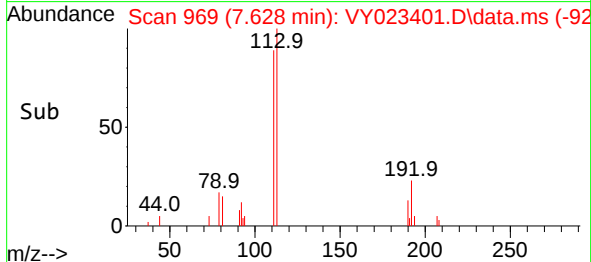
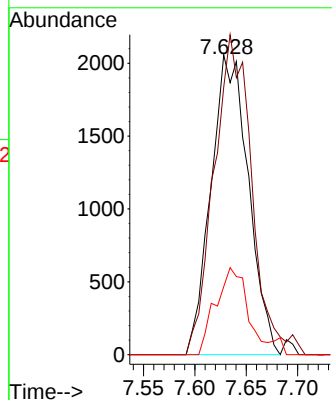
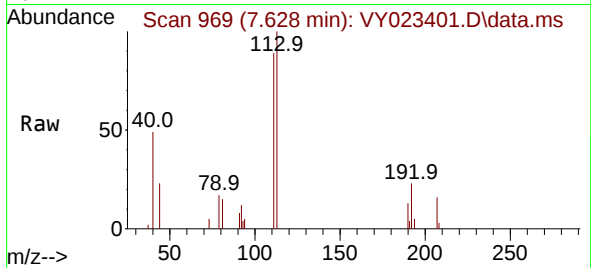




#35
Dibromofluoromethane
Concen: 44.053 ug/l
RT: 7.628 min Scan# 910
Delta R.T. -0.006 min
Lab File: VY023401.D
Acq: 08 Oct 2025 12:34

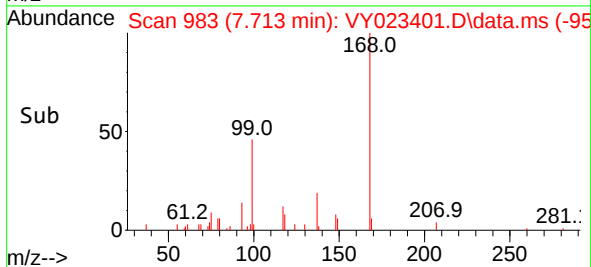
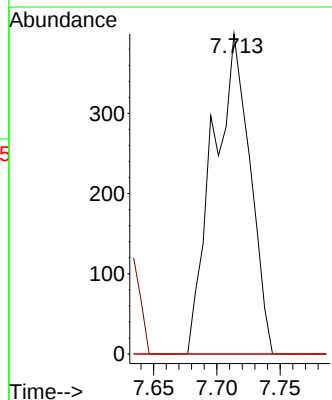
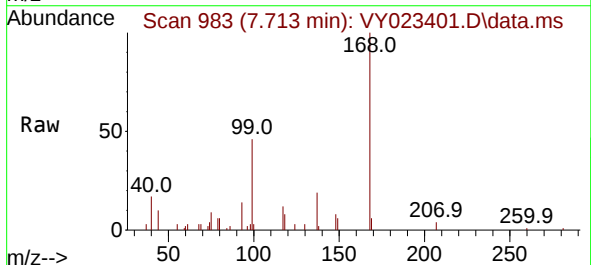
Instrument :
MSVOA_Y
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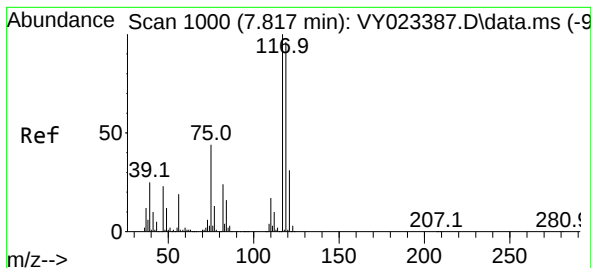
Tgt Ion:113 Resp: 5205
Ion Ratio Lower Upper
113 100
111 107.5 81.8 122.6
192 26.2 18.0 27.0



#36
1,1-Dichloropropene
Concen: 5.191 ug/l
RT: 7.713 min Scan# 983
Delta R.T. -0.122 min
Lab File: VY023401.D
Acq: 08 Oct 2025 12:34

Tgt Ion: 75 Resp: 812
Ion Ratio Lower Upper
75 100
110 0.0 19.9 59.7#
77 0.0 25.0 37.6#





#38

Carbon Tetrachloride

Concen: 4.793 ug/l

RT: 7.713 min Scan# 909

Delta R.T. -0.104 min

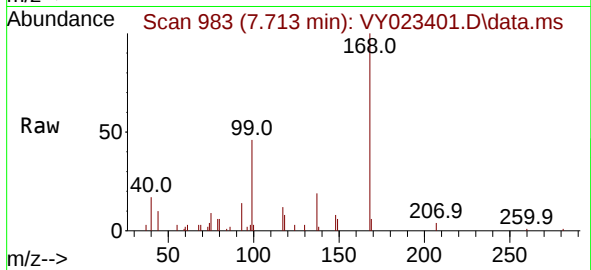
Lab File: VY023401.D

Acq: 08 Oct 2025 12:34

Instrument :

MSVOA_Y

ClientSampleId :



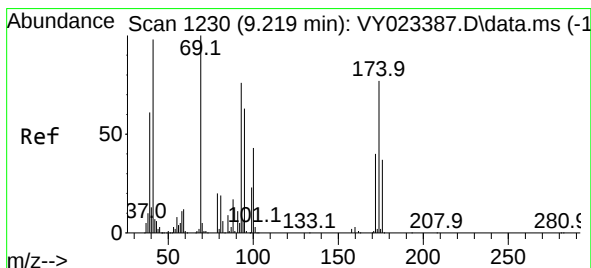
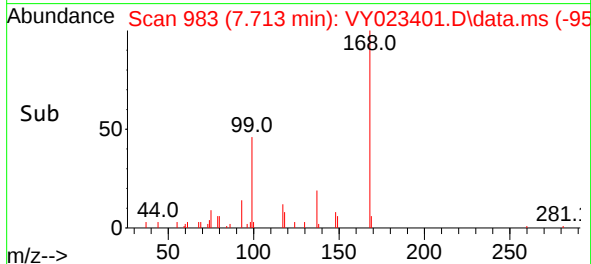
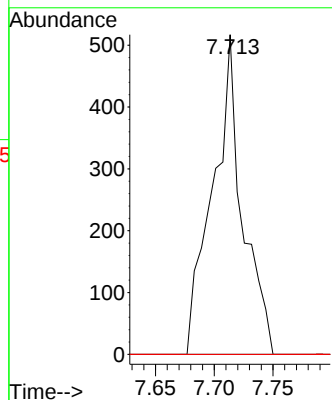
Tgt Ion:117 Resp: 909

Ion Ratio Lower Upper

117 100

119 0.0 76.8 115.2#

121 0.0 24.5 36.7#



#48

Methyl methacrylate

Concen: 1.240 ug/l

RT: 9.238 min Scan# 1233

Delta R.T. 0.018 min

Lab File: VY023401.D

Acq: 08 Oct 2025 12:34

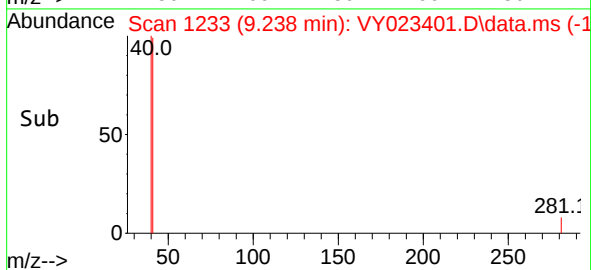
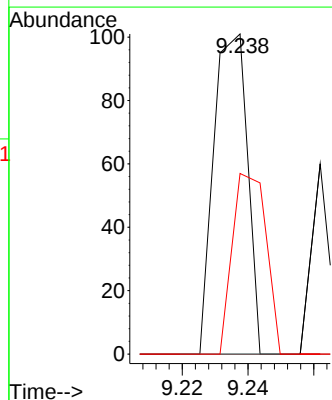
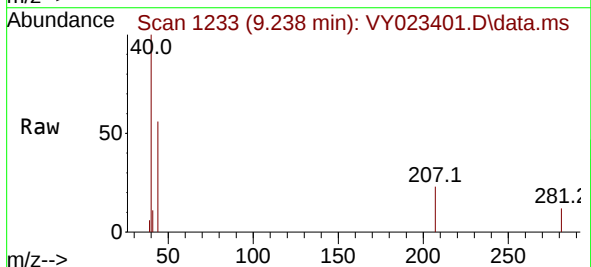
Tgt Ion: 41 Resp: 72

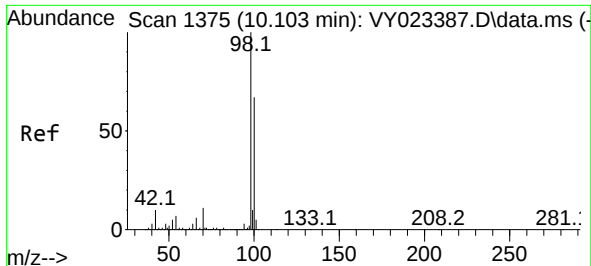
Ion Ratio Lower Upper

41 100

69 0.0 81.0 121.4#

39 56.9 48.2 72.4

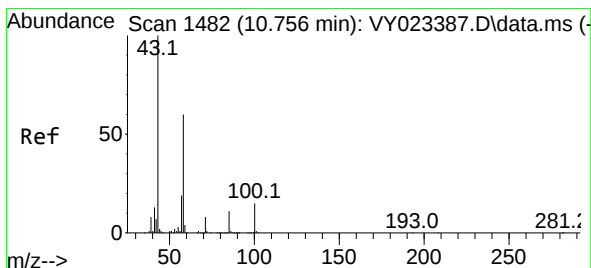
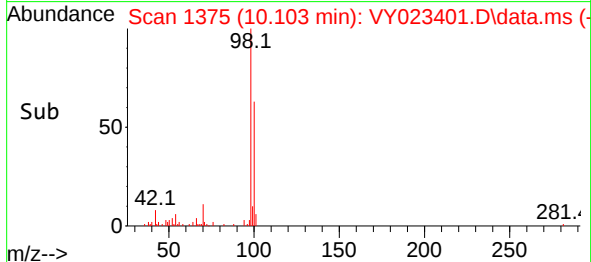
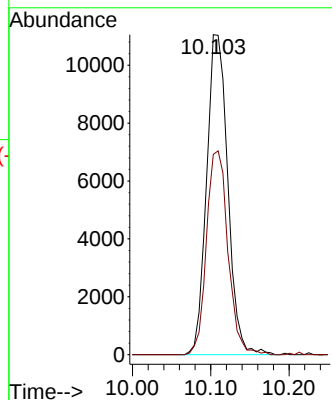
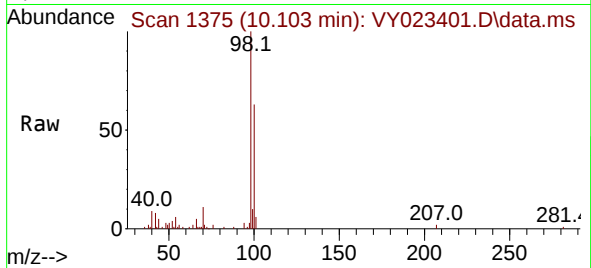




#50
Toluene-d8
Concen: 47.212 ug/l
RT: 10.103 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY023401.D
Acq: 08 Oct 2025 12:34

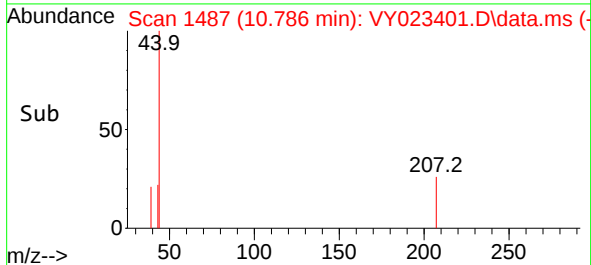
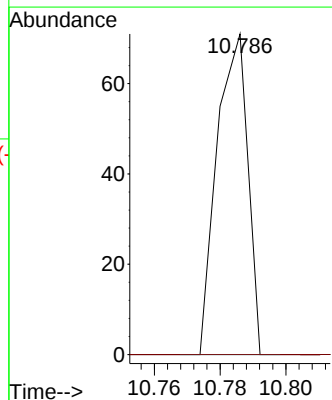
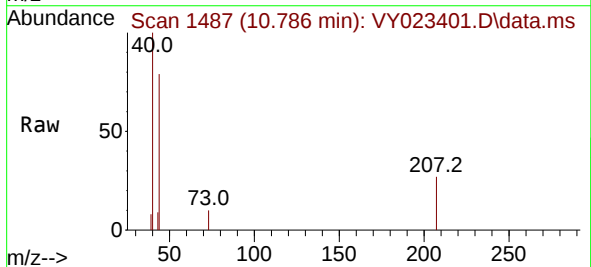
Instrument :
MSVOA_Y
ClientSampleId :

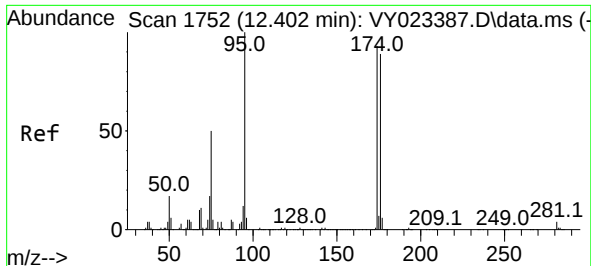
Tgt Ion: 98 Resp: 20774
Ion Ratio Lower Upper
98 100
100 64.4 53.0 79.4



#59
2-Hexanone
Concen: 1.008 ug/l
RT: 10.786 min Scan# 1487
Delta R.T. 0.031 min
Lab File: VY023401.D
Acq: 08 Oct 2025 12:34

Tgt Ion: 43 Resp: 46
Ion Ratio Lower Upper
43 100
58 0.0 30.5 91.5#

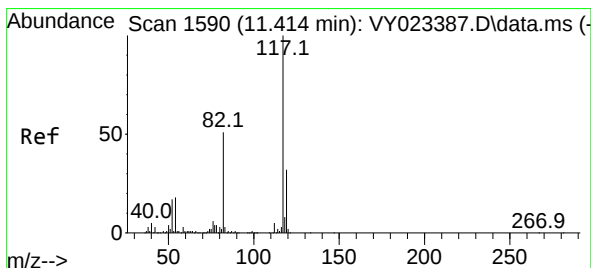
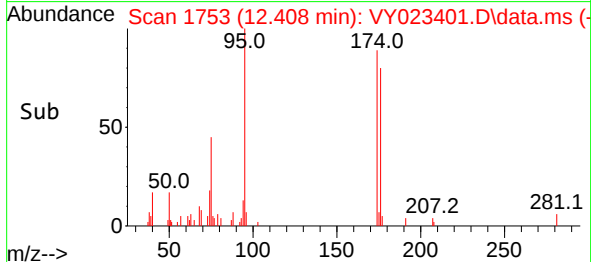
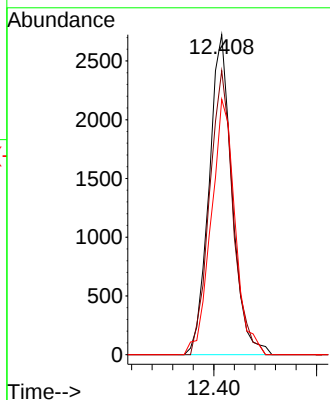
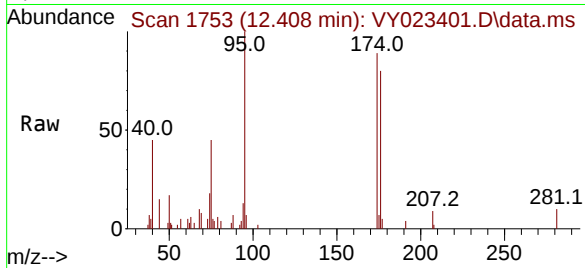




#62
4-Bromofluorobenzene
Concen: 29.201 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY023401.D
Acq: 08 Oct 2025 12:34

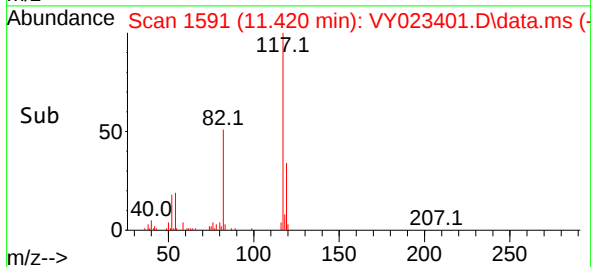
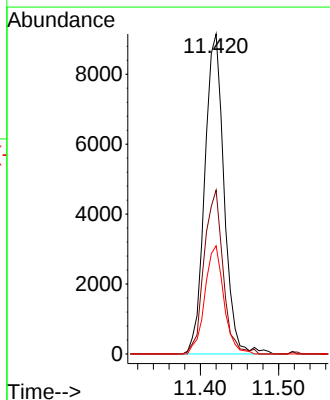
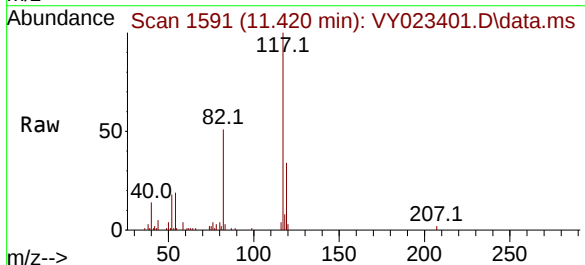
Instrument :
MSVOA_Y
ClientSampleId :

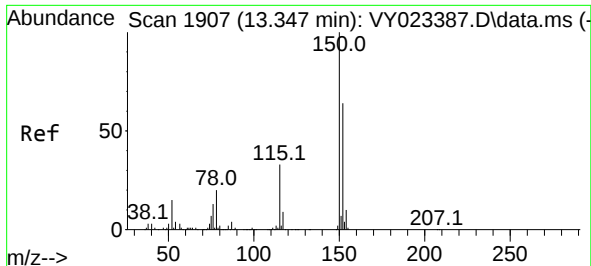
Tgt Ion:	95	Resp:	4242
Ion	Ratio	Lower	Upper
95	100		
174	90.4	0.0	192.8
176	82.5	0.0	187.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1591
Delta R.T. 0.006 min
Lab File: VY023401.D
Acq: 08 Oct 2025 12:34

Tgt Ion:	117	Resp:	15659
Ion	Ratio	Lower	Upper
117	100		
82	51.2	41.0	61.4
119	33.8	25.6	38.4

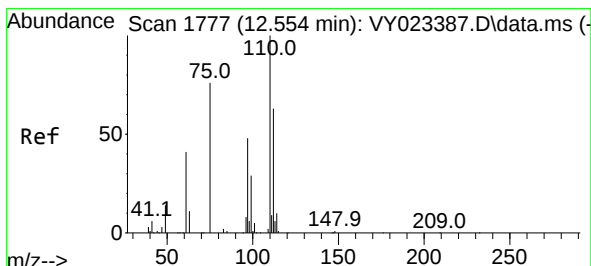
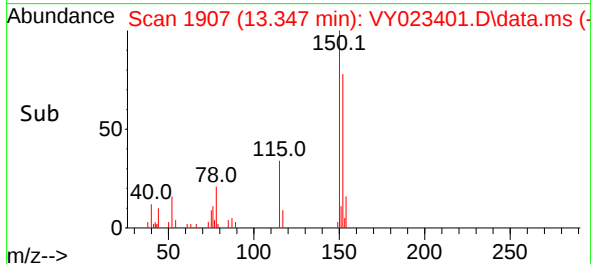
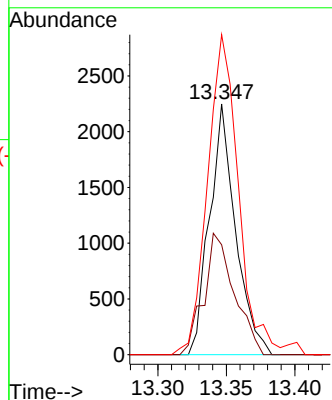
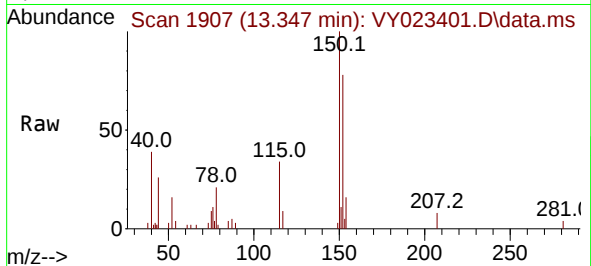




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.347 min Scan# 1907
 Delta R.T. 0.000 min
 Lab File: VY023401.D
 Acq: 08 Oct 2025 12:34

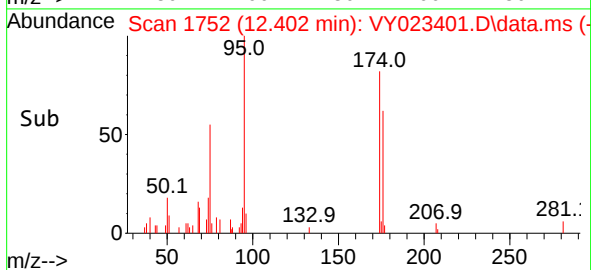
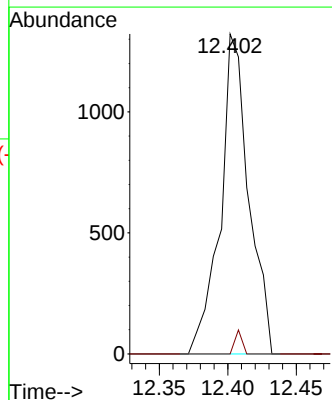
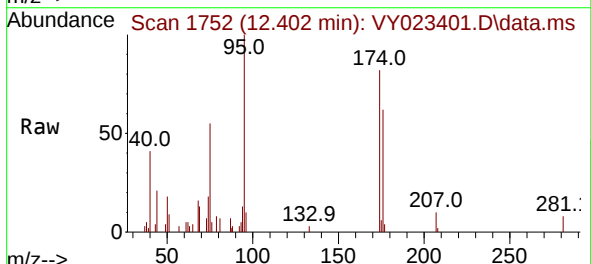
Instrument :
 MSVOA_Y
 ClientSampleId :

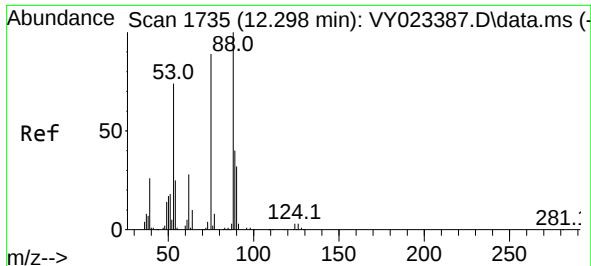
Tgt Ion:152 Resp: 2980
 Ion Ratio Lower Upper
 152 100
 115 56.5 27.1 81.2
 150 152.7 0.0 347.4



#76
 1,2,3-Trichloropropane
 Concen: 72.381 ug/l
 RT: 12.402 min Scan# 1752
 Delta R.T. -0.152 min
 Lab File: VY023401.D
 Acq: 08 Oct 2025 12:34

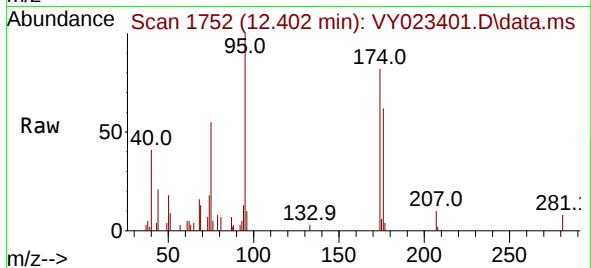
Tgt Ion: 75 Resp: 1903
 Ion Ratio Lower Upper
 75 100
 77 1.9 0.0 0.0#



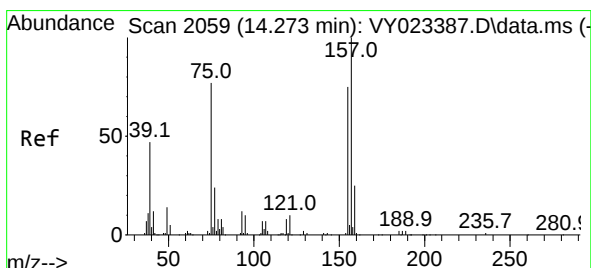
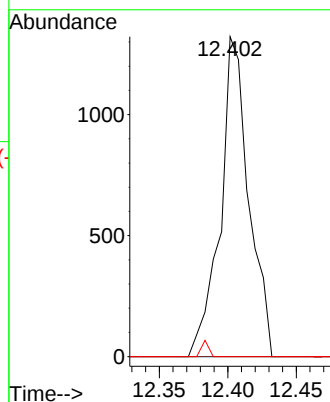
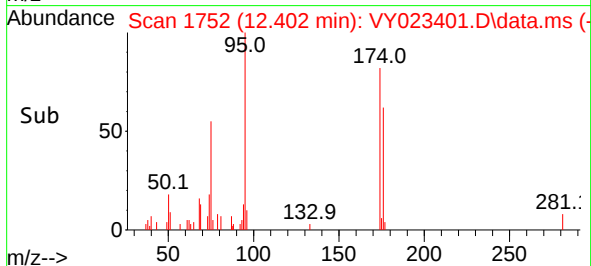


#81
 trans-1,4-Dichloro-2-butene
 Concen: 177.491 ug/l
 RT: 12.402 min Scan# 1
 Delta R.T. 0.104 min
 Lab File: VY023401.D
 Acq: 08 Oct 2025 12:34

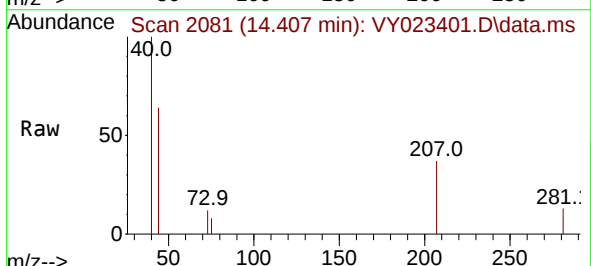
Instrument :
 MSVOA_Y
 ClientSampleId :



Tgt Ion: 75 Resp: 1903
 Ion Ratio Lower Upper
 75 100
 53 0.0 68.6 102.8#
 89 1.3 39.0 58.4#



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 7.210 ug/l
 RT: 14.407 min Scan# 2081
 Delta R.T. 0.134 min
 Lab File: VY023401.D
 Acq: 08 Oct 2025 12:34



Tgt Ion: 75 Resp: 38
 Ion Ratio Lower Upper
 75 100
 155 0.0 50.0 150.0#
 157 0.0 63.8 191.5#

