

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY092525\
 Data File : VY023379.D
 Acq On : 25 Sep 2025 17:16
 Operator : SY/MD
 Sample : Q3209-01
 Misc : 5.38g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Sep 26 04:27:24 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090825S.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 10 01:44:33 2025
 Response via : Initial Calibration

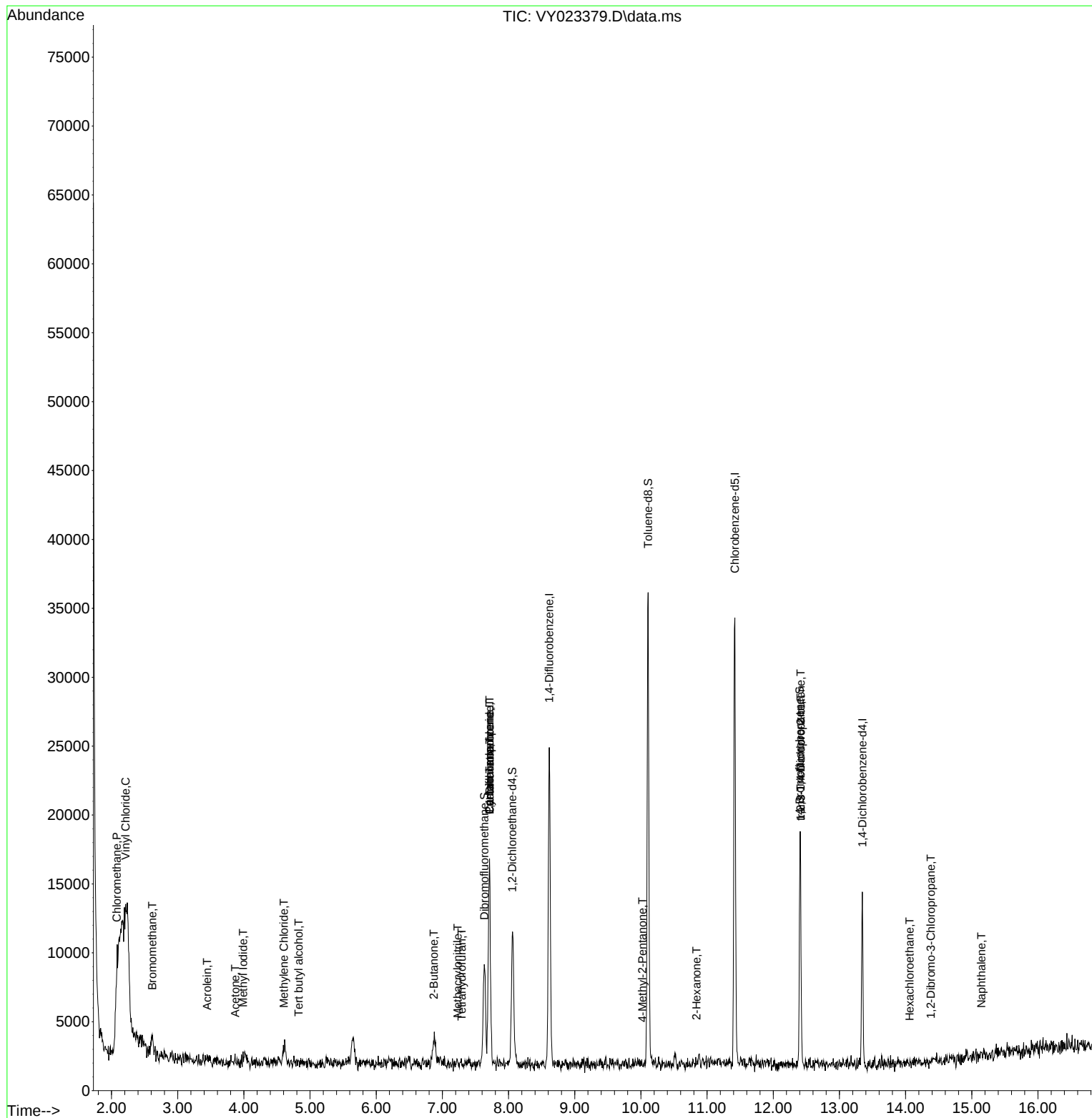
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	12436	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	22116	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	19133	50.000	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	13.346	152	3189	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.054	65	7785	71.241	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	142.480%
35) Dibromofluoromethane	7.634	113	5819	43.044	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	86.080%
50) Toluene-d8	10.109	98	24431	47.859	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	95.720%
62) 4-Bromofluorobenzene	12.401	95	5140	31.996	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	64.000%
Target Compounds						
					Qvalue	
3) Chloromethane	2.080	50	519	3.635	ug/l	90
4) Vinyl Chloride	2.214	62	344	1.913	ug/l #	43
5) Bromomethane	2.616	94	726	4.944	ug/l	83
10) Methyl Iodide	3.988	142	218	1.531	ug/l #	51
11) Tert butyl alcohol	4.829	59	28	4.434	ug/l #	71
13) Acrolein	3.446	56	23	2.155	ug/l #	15
16) Acetone	3.872	43	313	12.575	ug/l #	41
20) Methylene Chloride	4.604	84	1064	7.990	ug/l #	55
25) 2-Butanone	6.872	43	93	3.036	ug/l #	45
29) Tetrahydrofuran	7.292	42	48	2.642	ug/l #	29
31) Cyclohexane	7.713	56	228	1.192	ug/l #	48
36) 1,1-Dichloropropene	7.713	75	884	4.591	ug/l #	41
38) Carbon Tetrachloride	7.713	117	1208	5.452	ug/l #	13
41) Methacrylonitrile	7.231	41	46	1.160	ug/l #	21
51) 4-Methyl-2-Pentanone	10.024	43	88	1.155	ug/l #	34
59) 2-Hexanone	10.841	43	103	1.955	ug/l #	21
76) 1,2,3-Trichloropropane	12.413	75	2527	78.248	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.413	75	2527	213.391	ug/l #	14
90) Hexachloroethane	14.059	117	55	1.305	ug/l #	11
92) 1,2-Dibromo-3-Chloropr...	14.383	75	28	4.950	ug/l #	1
95) Naphthalene	15.145	128	146	1.645	ug/l #	84

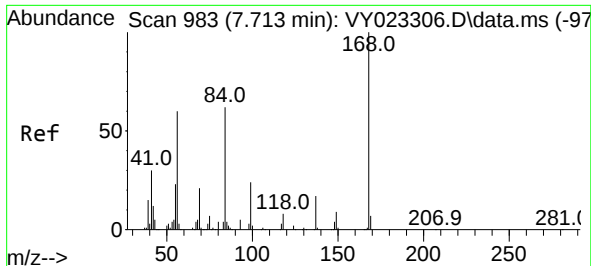
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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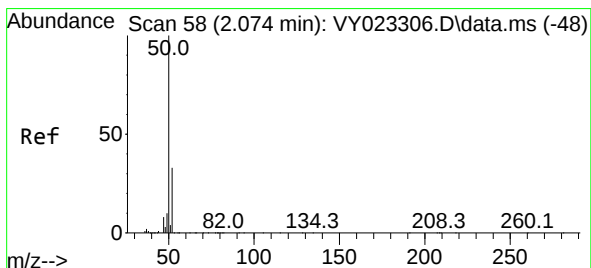
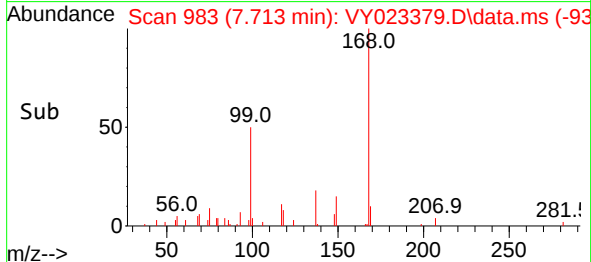
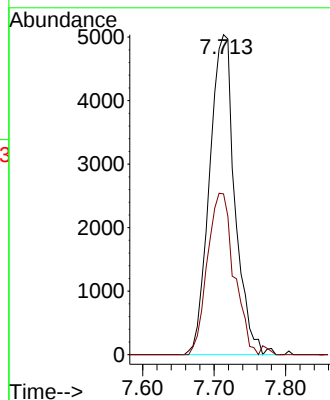
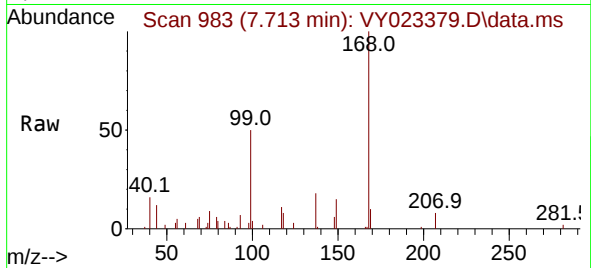




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 99
Delta R.T. 0.006 min
Lab File: VY023379.D
Acq: 25 Sep 2025 17:16

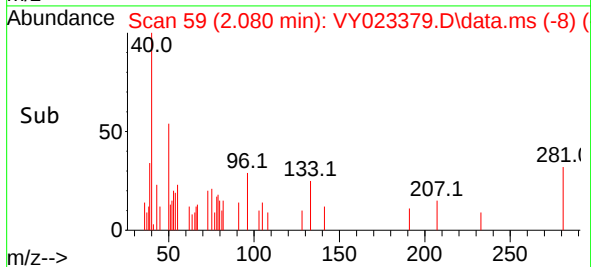
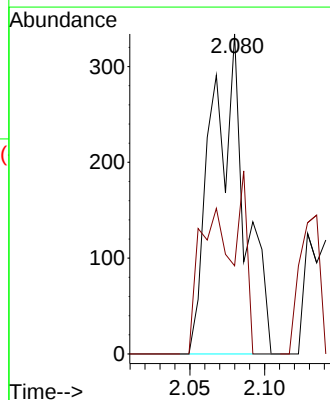
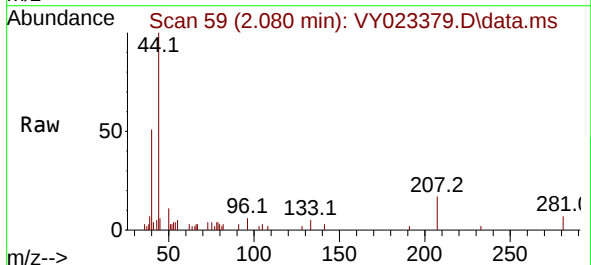
Instrument :
MSVOA_Y
ClientSampleId :

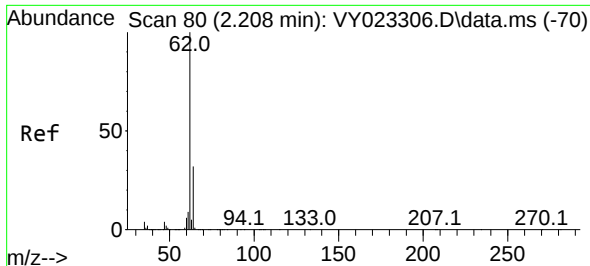
Tgt Ion:168 Resp: 12436
Ion Ratio Lower Upper
168 100
99 50.3 42.8 64.2



#3
Chloromethane
Concen: 3.635 ug/l
RT: 2.080 min Scan# 59
Delta R.T. 0.012 min
Lab File: VY023379.D
Acq: 25 Sep 2025 17:16

Tgt Ion: 50 Resp: 519
Ion Ratio Lower Upper
50 100
52 27.5 26.7 40.1

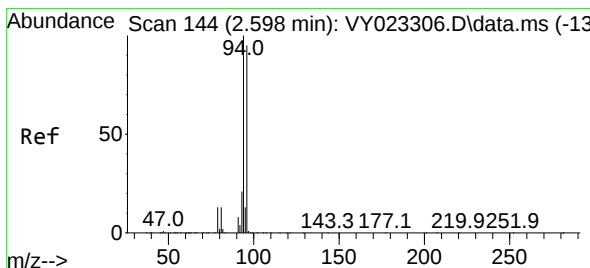
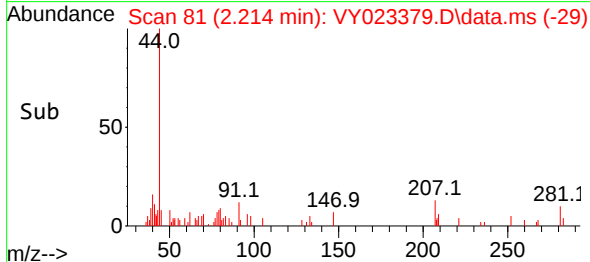
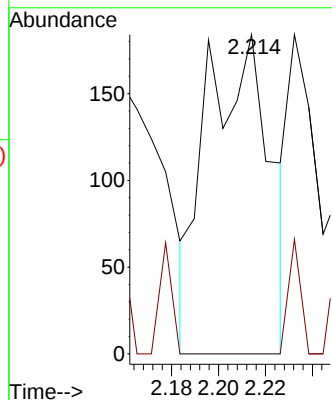
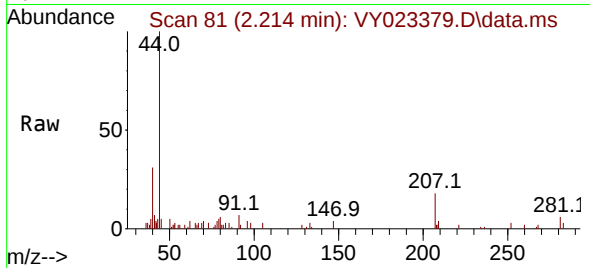




#4
 Vinyl Chloride
 Concen: 1.913 ug/l
 RT: 2.214 min Scan# 81
 Delta R.T. 0.018 min
 Lab File: VY023379.D
 Acq: 25 Sep 2025 17:16

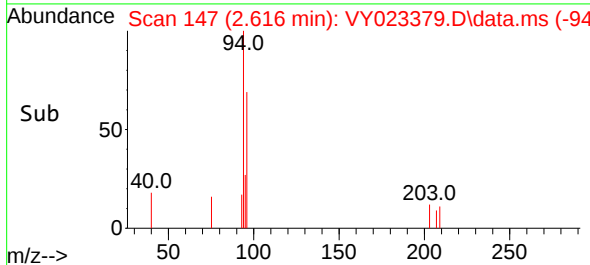
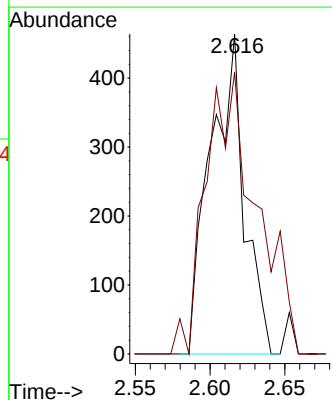
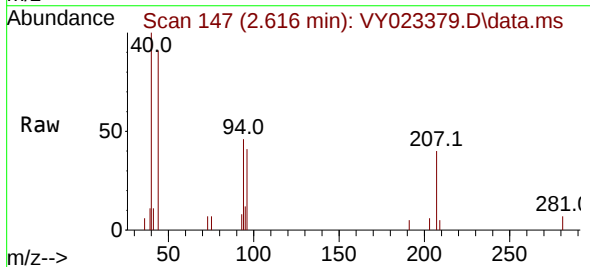
Instrument :
 MSVOA_Y
 ClientSampleId :

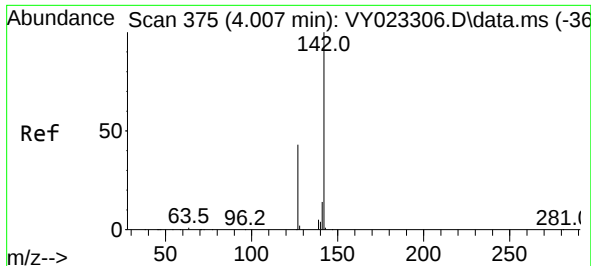
Tgt Ion: 62 Resp: 344
 Ion Ratio Lower Upper
 62 100
 64 0.0 25.4 38.0#



#5
 Bromomethane
 Concen: 4.944 ug/l
 RT: 2.616 min Scan# 147
 Delta R.T. 0.024 min
 Lab File: VY023379.D
 Acq: 25 Sep 2025 17:16

Tgt Ion: 94 Resp: 726
 Ion Ratio Lower Upper
 94 100
 96 77.2 74.6 112.0





#10

Methyl Iodide

Concen: 1.531 ug/l

RT: 3.988 min Scan# 31

Delta R.T. -0.006 min

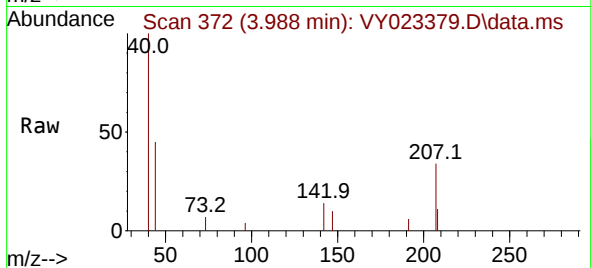
Lab File: VY023379.D

Acq: 25 Sep 2025 17:16

Instrument :

MSVOA_Y

ClientSampleId :



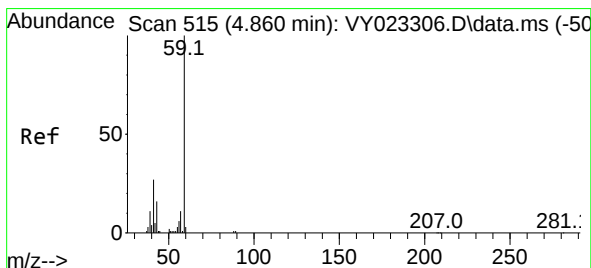
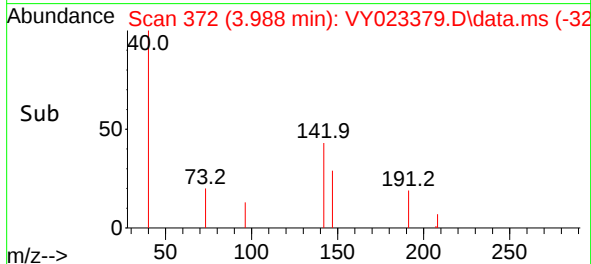
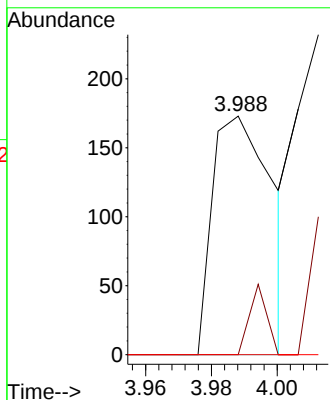
Tgt Ion:142 Resp: 218

Ion Ratio Lower Upper

142 100

127 8.7 34.9 52.3#

141 0.0 11.3 16.9#



#11

Tert butyl alcohol

Concen: 4.434 ug/l

RT: 4.829 min Scan# 510

Delta R.T. -0.031 min

Lab File: VY023379.D

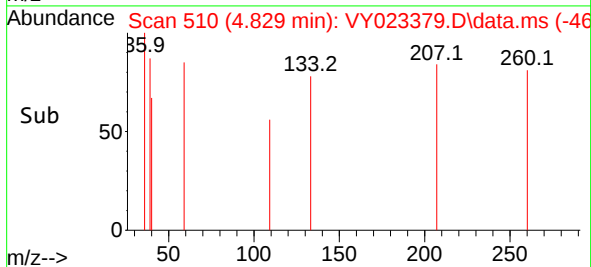
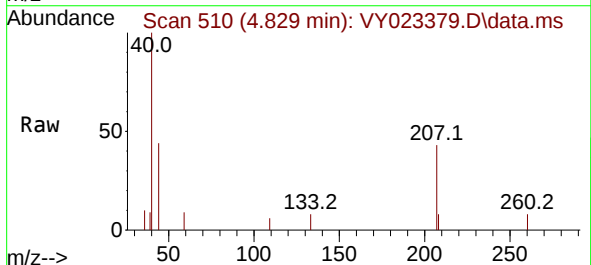
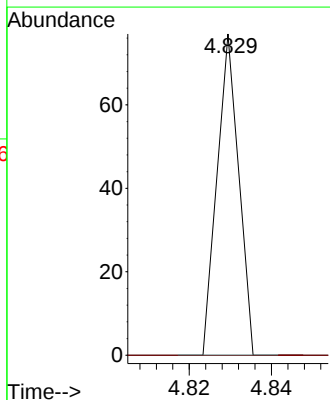
Acq: 25 Sep 2025 17:16

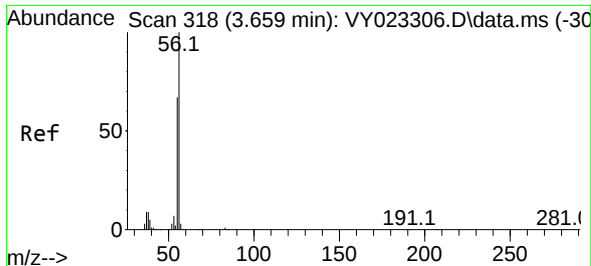
Tgt Ion: 59 Resp: 28

Ion Ratio Lower Upper

59 100

57 0.0 8.6 13.0#

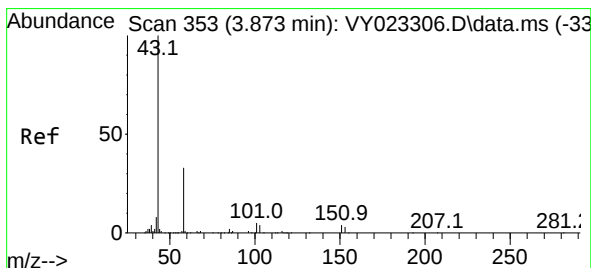
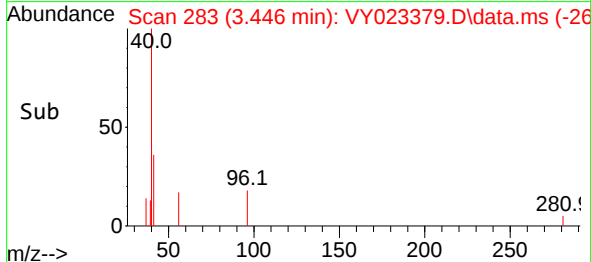
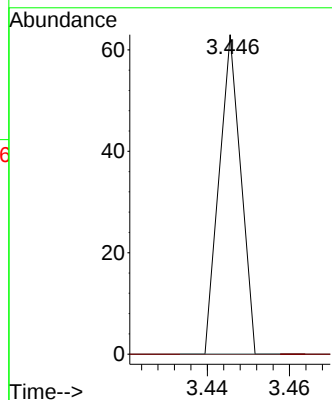
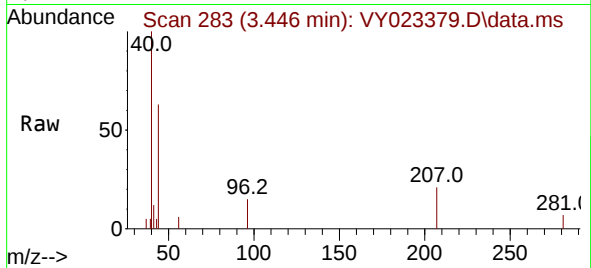




#13
Acrolein
Concen: 2.155 ug/l
RT: 3.446 min Scan# 21
Delta R.T. -0.201 min
Lab File: VY023379.D
Acq: 25 Sep 2025 17:16

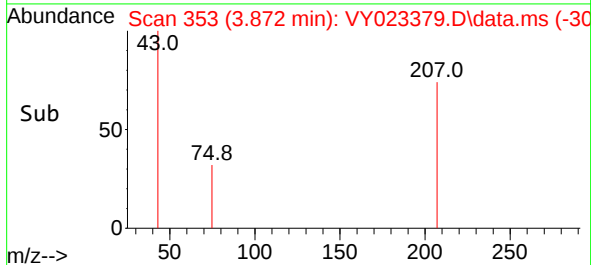
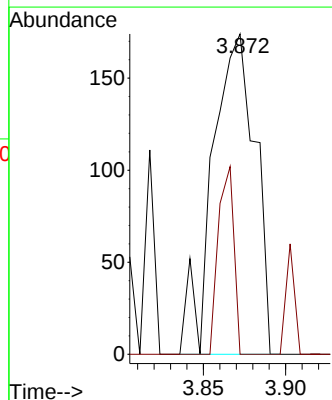
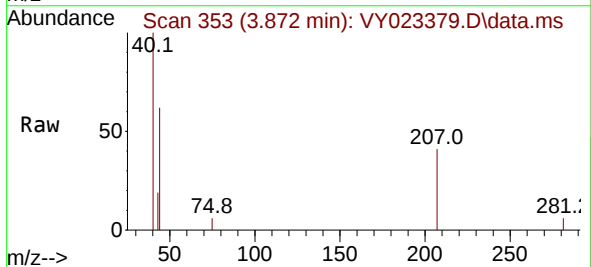
Instrument :
MSVOA_Y
ClientSampleId :

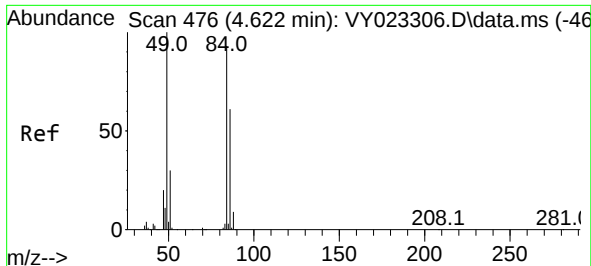
Tgt Ion: 56 Resp: 23
Ion Ratio Lower Upper
56 100
55 0.0 55.2 82.8#



#16
Acetone
Concen: 12.575 ug/l
RT: 3.872 min Scan# 353
Delta R.T. 0.012 min
Lab File: VY023379.D
Acq: 25 Sep 2025 17:16

Tgt Ion: 43 Resp: 313
Ion Ratio Lower Upper
43 100
58 0.0 27.1 40.7#

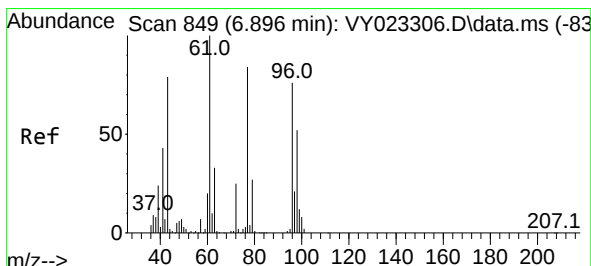
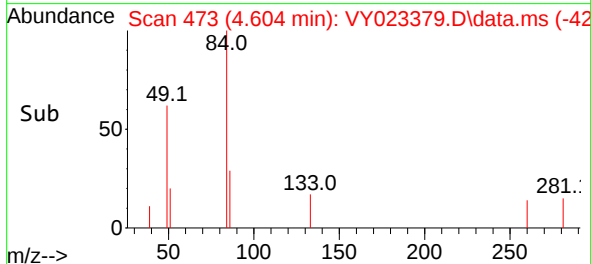
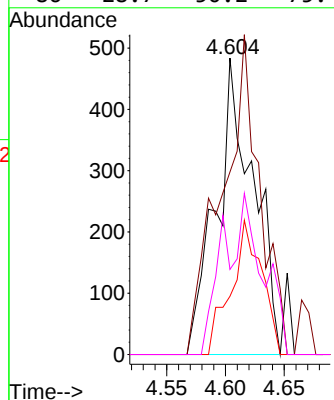
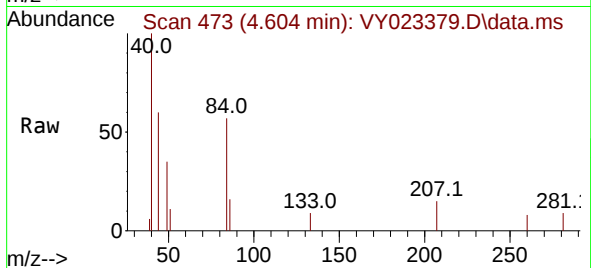




#20
Methylene Chloride
Concen: 7.990 ug/l
RT: 4.604 min Scan# 41
Delta R.T. -0.000 min
Lab File: VY023379.D
Acq: 25 Sep 2025 17:16

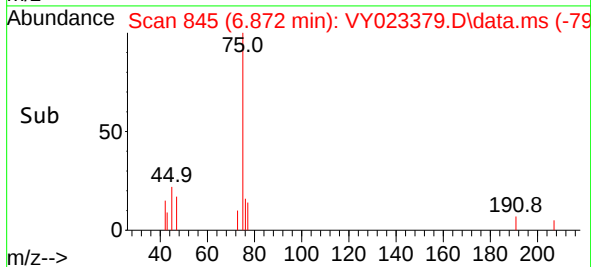
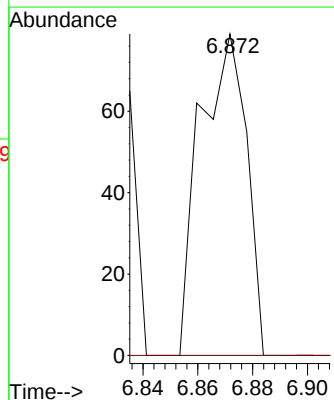
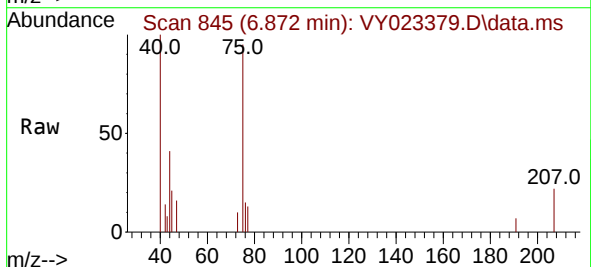
Instrument :
MSVOA_Y
ClientSampleId :

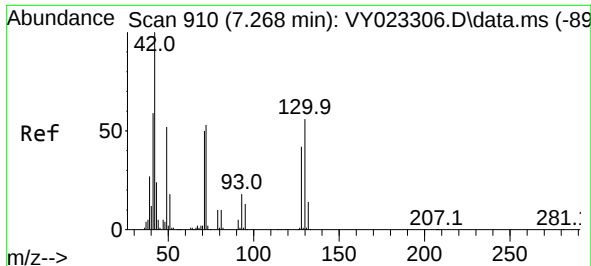
Tgt Ion:	84	Resp:	1064
Ion	Ratio	Lower	Upper
84	100		
49	61.6	93.0	139.6#
51	19.6	29.0	43.4#
86	28.7	50.2	75.4#



#25
2-Butanone
Concen: 3.036 ug/l
RT: 6.872 min Scan# 845
Delta R.T. -0.012 min
Lab File: VY023379.D
Acq: 25 Sep 2025 17:16

Tgt Ion:	43	Resp:	93
Ion	Ratio	Lower	Upper
43	100		
72	0.0	23.5	35.3#





#29

Tetrahydrofuran

Concen: 2.642 ug/l

RT: 7.292 min Scan# 914

Delta R.T. 0.036 min

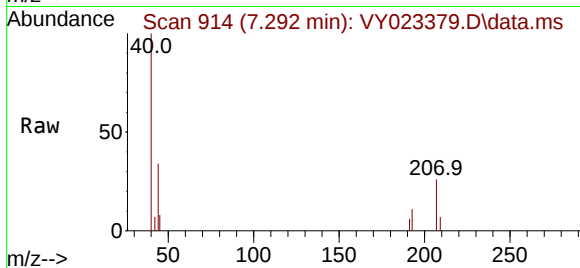
Lab File: VY023379.D

Acq: 25 Sep 2025 17:16

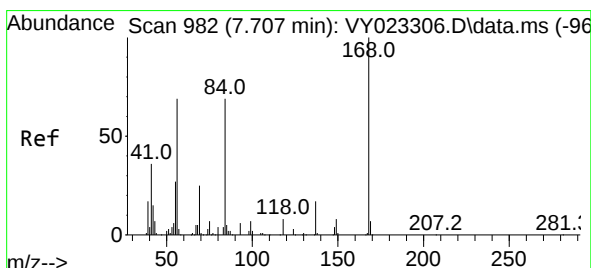
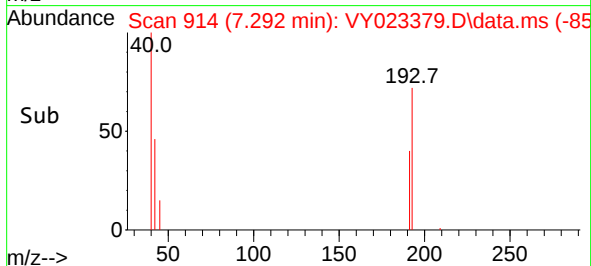
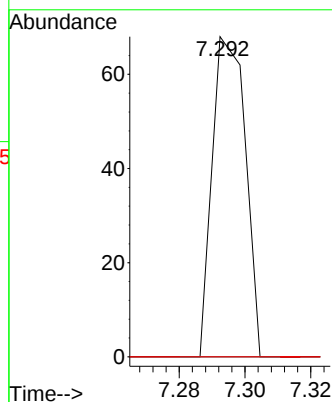
Instrument :

MSVOA_Y

ClientSampleId :



Tgt Ion:	42	Resp:	48
Ion	Ratio	Lower	Upper
42	100		
72	0.0	39.4	59.2#
71	0.0	36.5	54.7#



#31

Cyclohexane

Concen: 1.192 ug/l

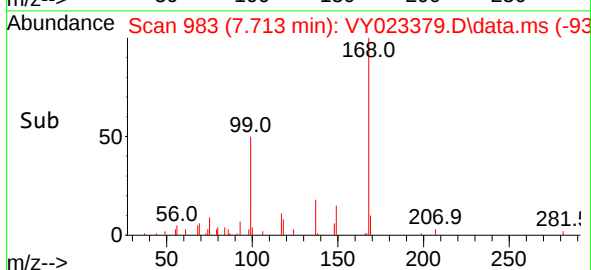
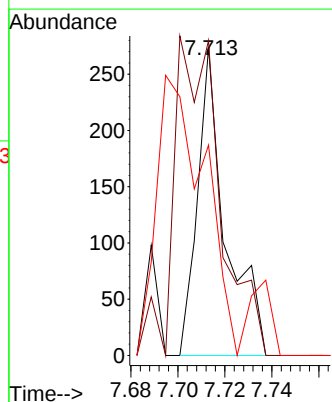
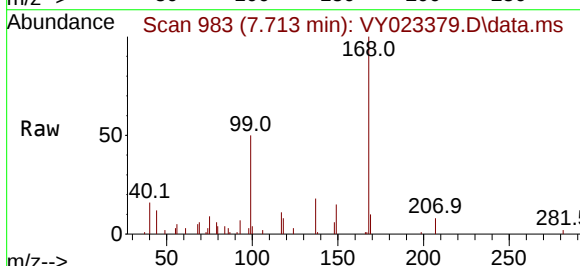
RT: 7.713 min Scan# 983

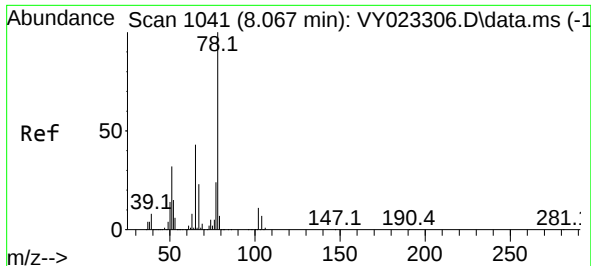
Delta R.T. 0.018 min

Lab File: VY023379.D

Acq: 25 Sep 2025 17:16

Tgt Ion:	56	Resp:	228
Ion	Ratio	Lower	Upper
56	100		
69	102.2	28.2	42.2#
84	68.2	76.6	114.8#





#33

1,2-Dichloroethane-d4

Concen: 71.241 ug/l

RT: 8.054 min Scan# 11039

Delta R.T. -0.000 min

Lab File: VY023379.D

Acq: 25 Sep 2025 17:16

Instrument :

MSVOA_Y

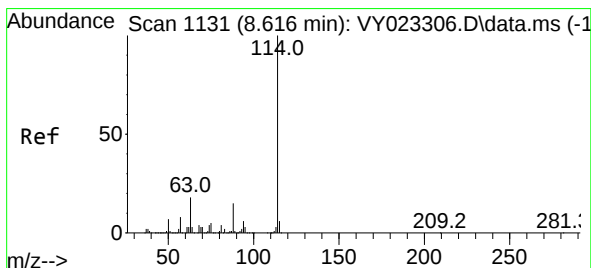
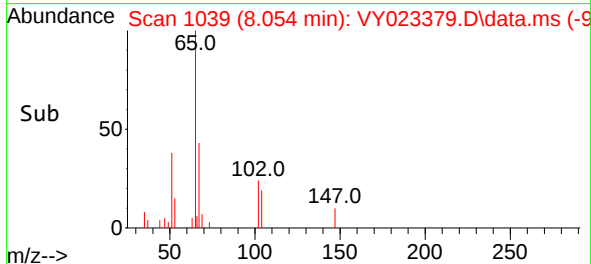
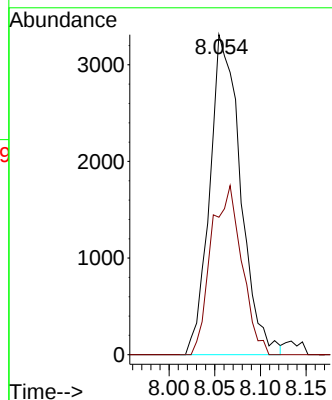
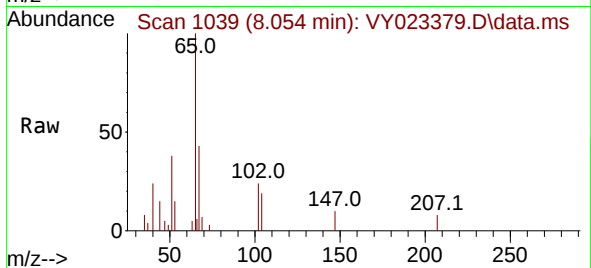
ClientSampleId :

Tgt Ion: 65 Resp: 7785

Ion Ratio Lower Upper

65 100

67 52.6 0.0 106.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.615 min Scan# 1131

Delta R.T. 0.006 min

Lab File: VY023379.D

Acq: 25 Sep 2025 17:16

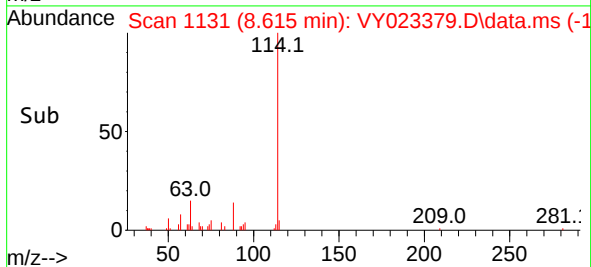
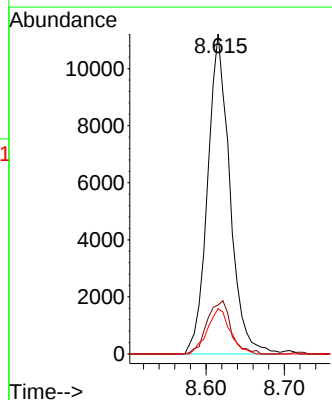
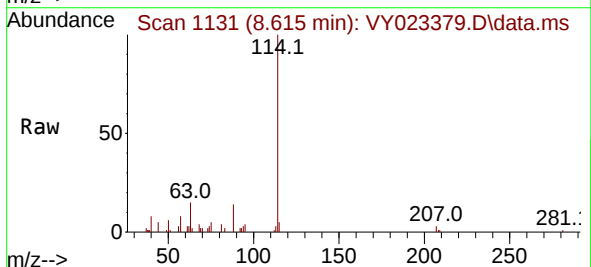
Tgt Ion: 114 Resp: 22116

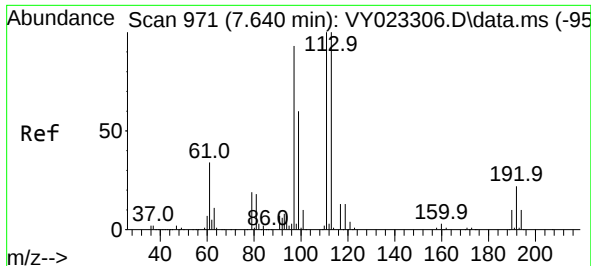
Ion Ratio Lower Upper

114 100

63 15.3 0.0 38.4

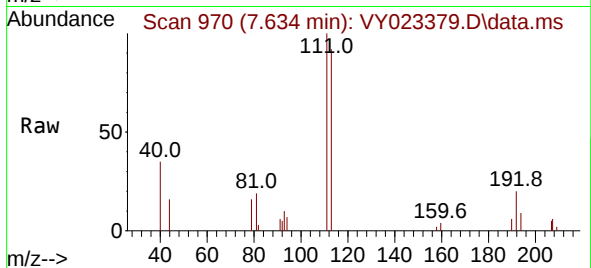
88 14.2 0.0 30.0



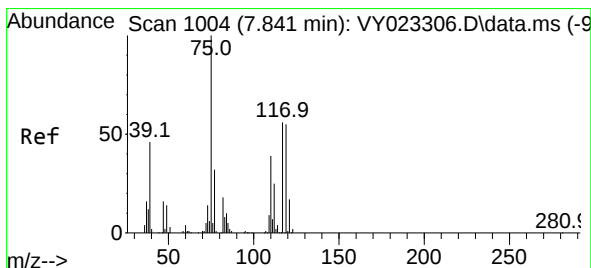
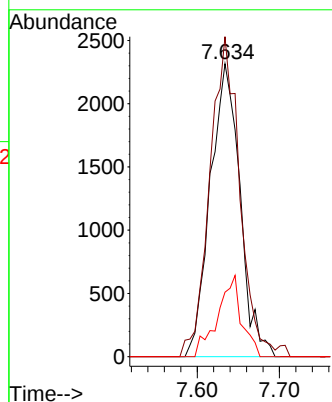
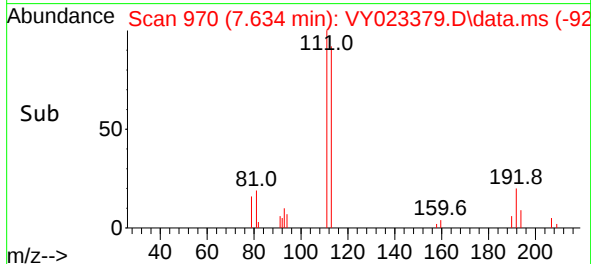


#35
Dibromofluoromethane
Concen: 43.044 ug/l
RT: 7.634 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023379.D
Acq: 25 Sep 2025 17:16

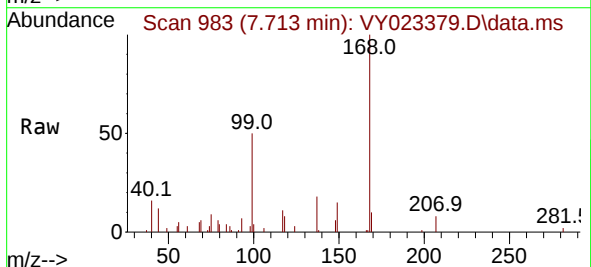
Instrument :
MSVOA_Y
ClientSampleId :



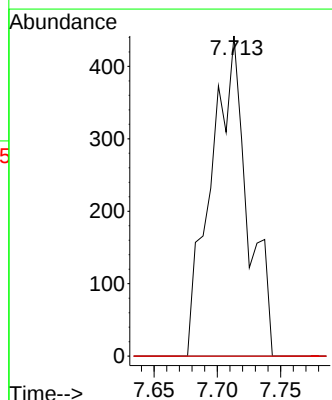
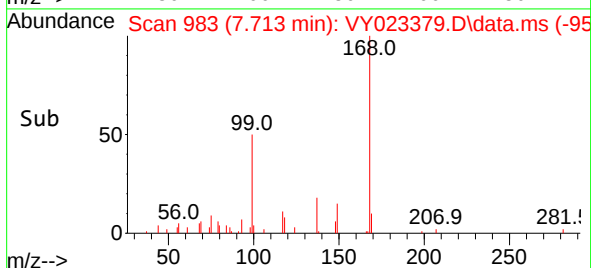
Tgt Ion:113 Resp: 5819
Ion Ratio Lower Upper
113 100
111 110.5 81.1 121.7
192 22.3 16.2 24.4

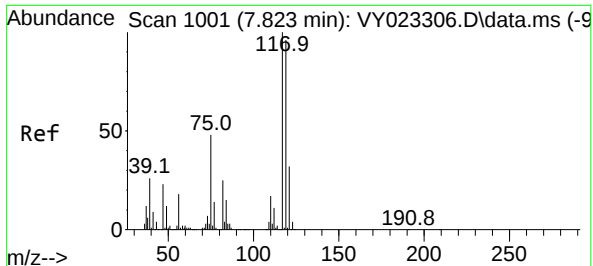


#36
1,1-Dichloropropene
Concen: 4.591 ug/l
RT: 7.713 min Scan# 983
Delta R.T. -0.116 min
Lab File: VY023379.D
Acq: 25 Sep 2025 17:16



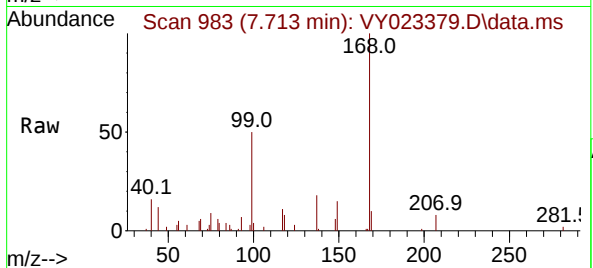
Tgt Ion: 75 Resp: 884
Ion Ratio Lower Upper
75 100
110 0.0 18.1 54.4#
77 0.0 24.6 37.0#



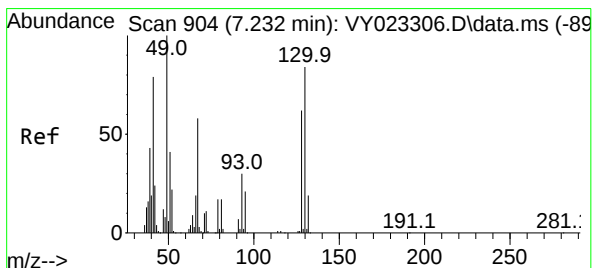
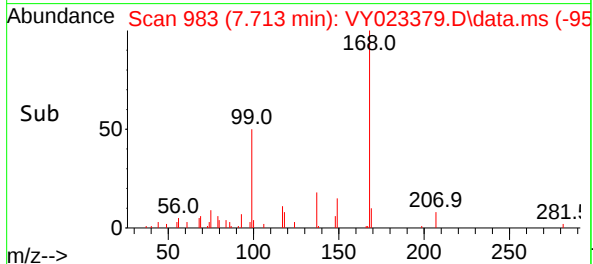
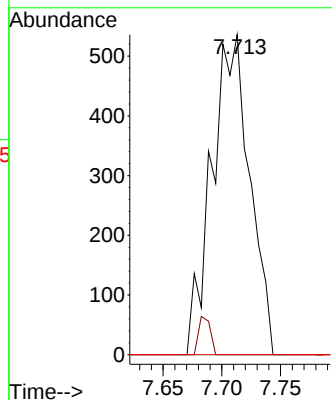


#38
Carbon Tetrachloride
Concen: 5.452 ug/l
RT: 7.713 min Scan# 983
Delta R.T. -0.104 min
Lab File: VY023379.D
Acq: 25 Sep 2025 17:16

Instrument :
MSVOA_Y
ClientSampleId :

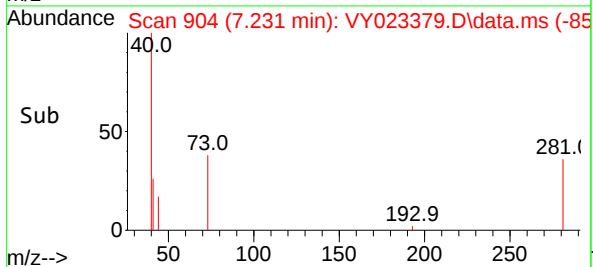
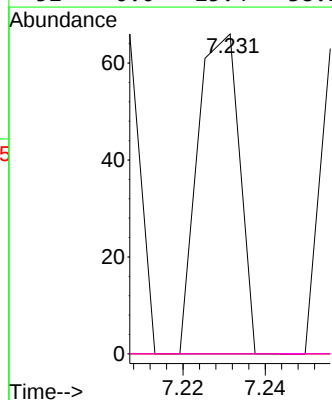
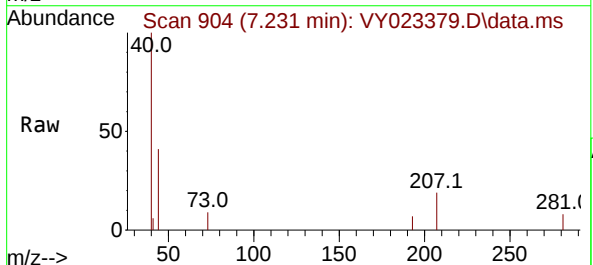


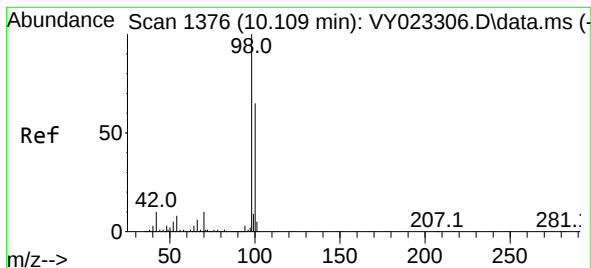
Tgt Ion: 117 Resp: 1208
Ion Ratio Lower Upper
117 100
119 0.0 75.6 113.4#
121 0.0 25.8 38.8#



#41
Methacrylonitrile
Concen: 1.160 ug/l
RT: 7.231 min Scan# 904
Delta R.T. 0.012 min
Lab File: VY023379.D
Acq: 25 Sep 2025 17:16

Tgt Ion: 41 Resp: 46
Ion Ratio Lower Upper
41 100
39 0.0 43.4 65.2#
67 0.0 63.6 95.4#
52 0.0 25.4 38.2#





#50

Toluene-d8

Concen: 47.859 ug/l

RT: 10.109 min Scan# 1376

Delta R.T. 0.006 min

Lab File: VY023379.D

Acq: 25 Sep 2025 17:16

Instrument :

MSVOA_Y

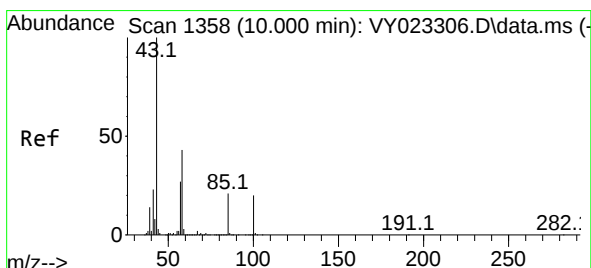
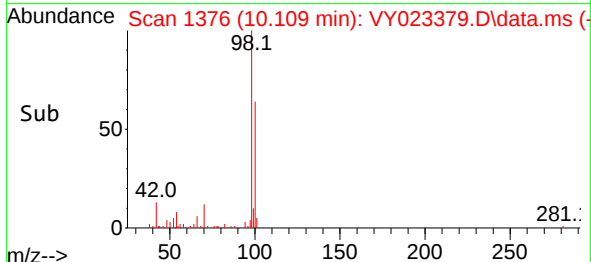
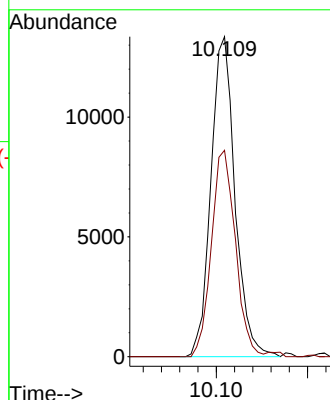
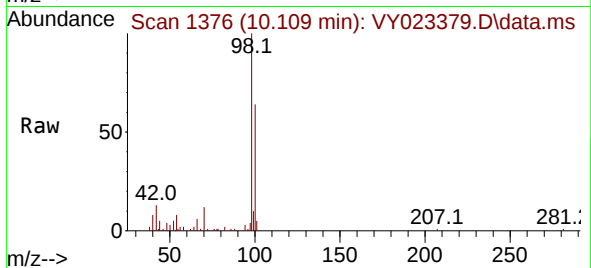
ClientSampleId :

Tgt Ion: 98 Resp: 24431

Ion Ratio Lower Upper

98 100

100 64.3 52.3 78.5



#51

4-Methyl-2-Pentanone

Concen: 1.155 ug/l

RT: 10.024 min Scan# 1362

Delta R.T. 0.030 min

Lab File: VY023379.D

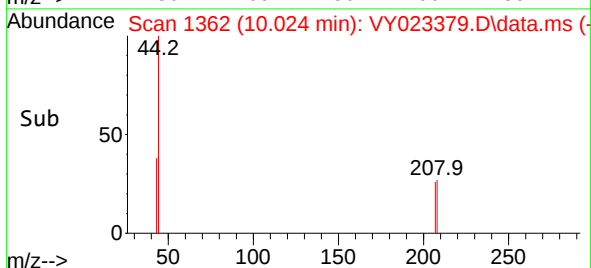
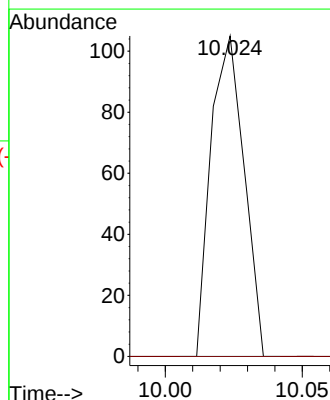
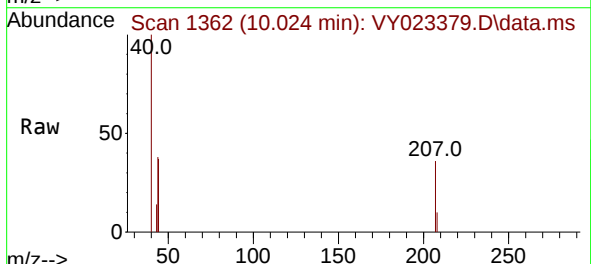
Acq: 25 Sep 2025 17:16

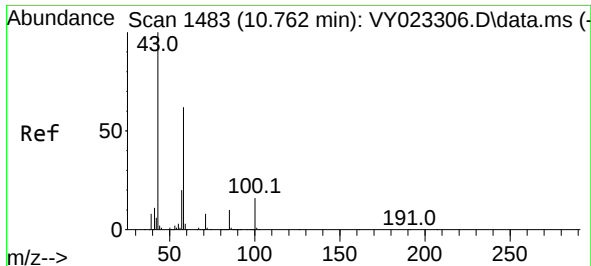
Tgt Ion: 43 Resp: 88

Ion Ratio Lower Upper

43 100

58 0.0 33.5 50.3#

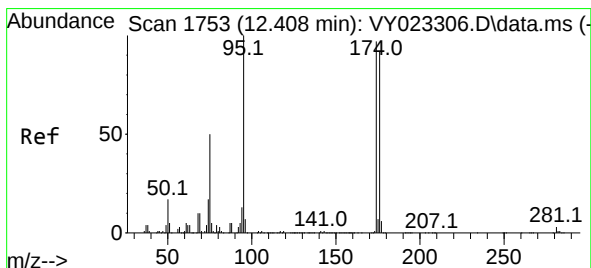
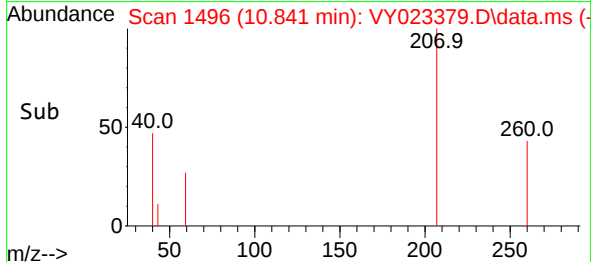
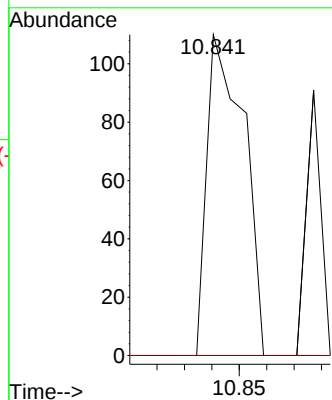
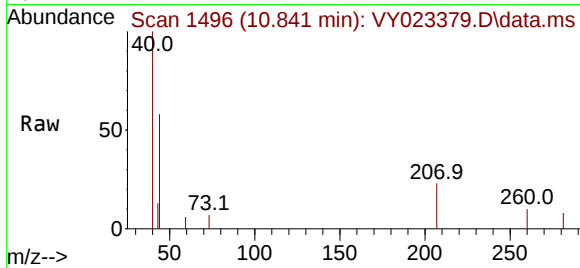




#59
2-Hexanone
Concen: 1.955 ug/l
RT: 10.841 min Scan# 1483
Delta R.T. 0.085 min
Lab File: VY023379.D
Acq: 25 Sep 2025 17:16

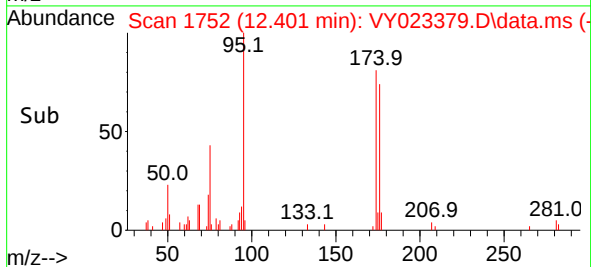
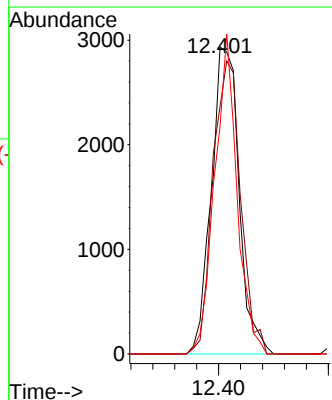
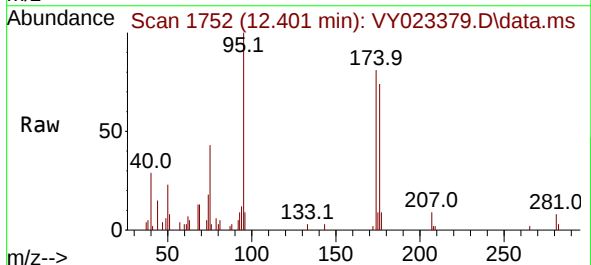
Instrument :
MSVOA_Y
ClientSampleId :

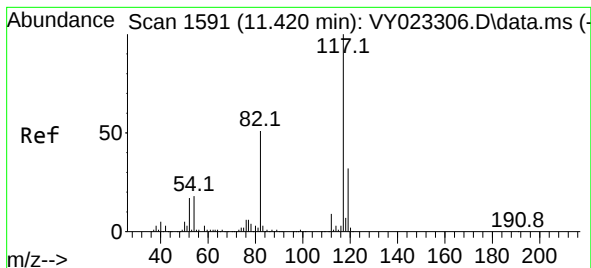
Tgt Ion: 43 Resp: 103
Ion Ratio Lower Upper
43 100
58 0.0 29.5 88.5#



#62
4-Bromofluorobenzene
Concen: 31.996 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY023379.D
Acq: 25 Sep 2025 17:16

Tgt Ion: 95 Resp: 5140
Ion Ratio Lower Upper
95 100
174 96.1 0.0 171.6
176 84.5 0.0 167.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 11

Delta R.T. 0.012 min

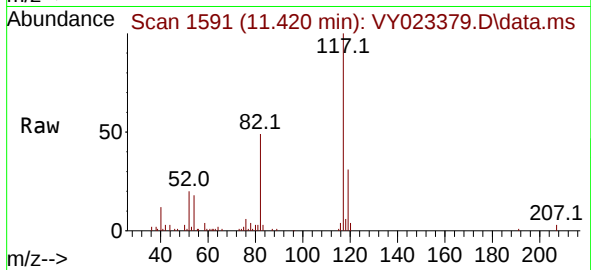
Lab File: VY023379.D

Acq: 25 Sep 2025 17:16

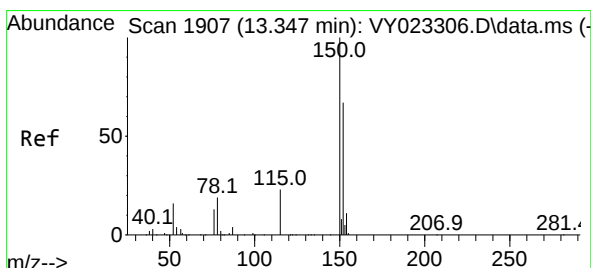
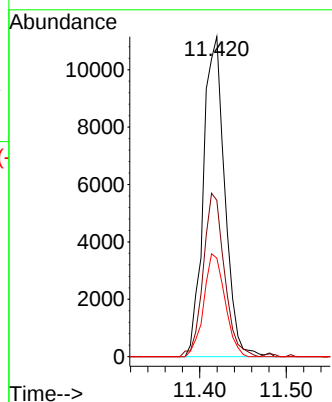
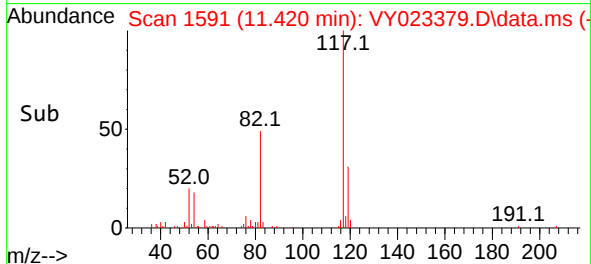
Instrument :

MSVOA_Y

ClientSampleId :



Tgt Ion:	117	Resp:	19133
Ion Ratio	Lower	Upper	
117	100		
82	48.8	43.4	65.0
119	30.8	25.6	38.4



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

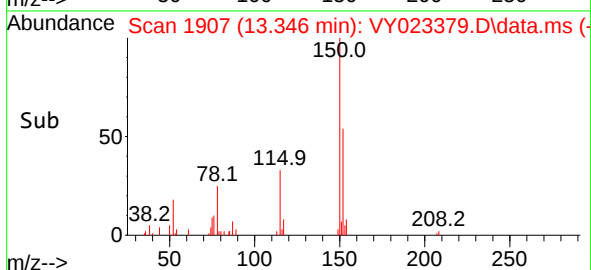
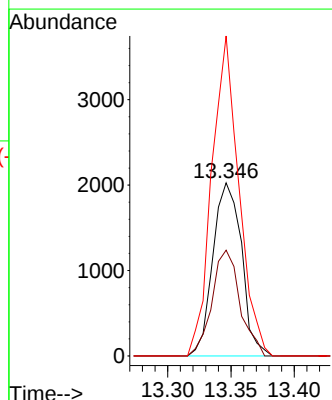
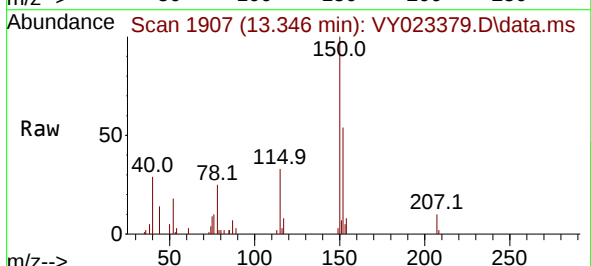
RT: 13.346 min Scan# 1907

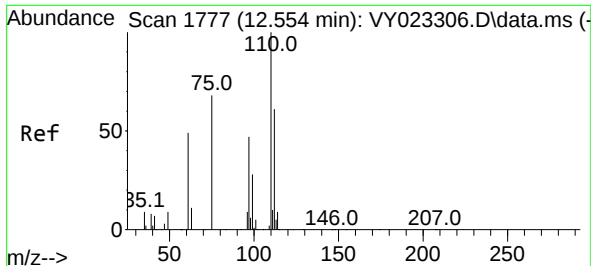
Delta R.T. 0.006 min

Lab File: VY023379.D

Acq: 25 Sep 2025 17:16

Tgt Ion:	152	Resp:	3189
Ion Ratio	Lower	Upper	
152	100		
115	59.9	28.2	84.6
150	174.9	0.0	348.0

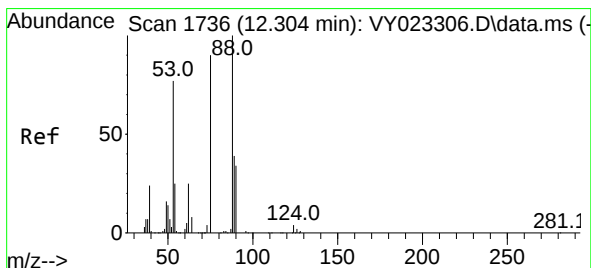
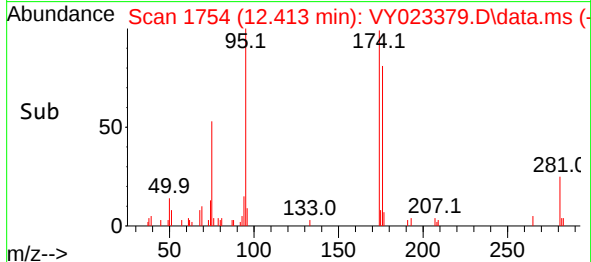
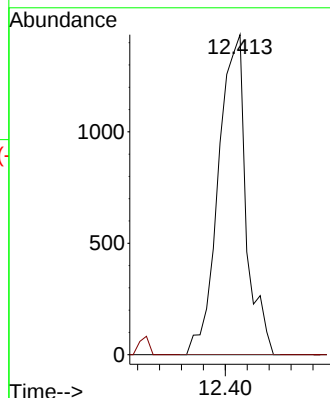
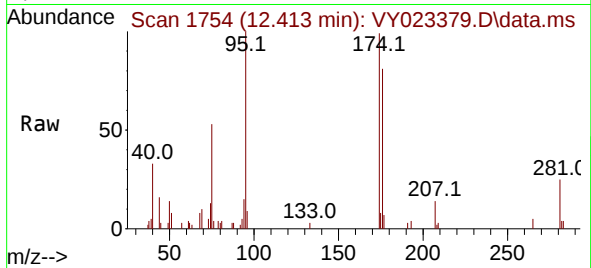




#76
1,2,3-Trichloropropane
Concen: 78.248 ug/l
RT: 12.413 min Scan# 1754
Delta R.T. -0.134 min
Lab File: VY023379.D
Acq: 25 Sep 2025 17:16

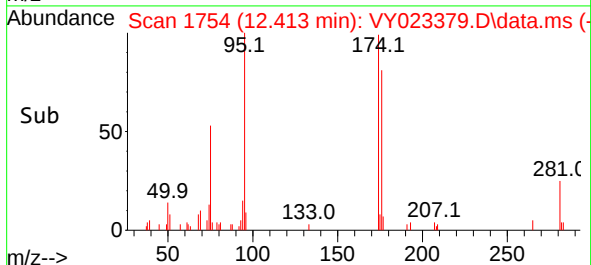
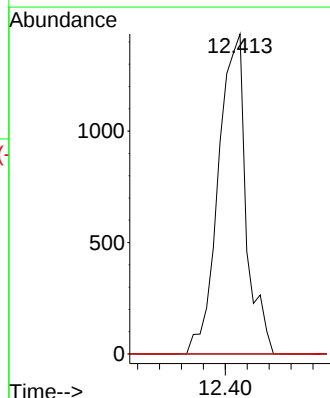
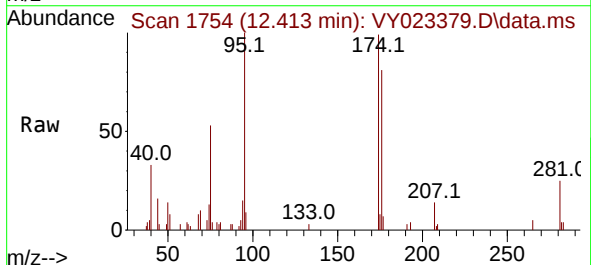
Instrument :
MSVOA_Y
ClientSampleId :

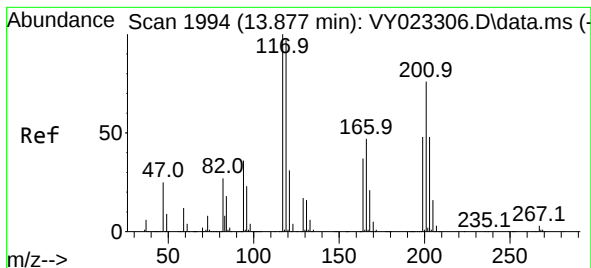
Tgt Ion: 75 Resp: 2527
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0



#81
trans-1,4-Dichloro-2-butene
Concen: 213.391 ug/l
RT: 12.413 min Scan# 1754
Delta R.T. 0.116 min
Lab File: VY023379.D
Acq: 25 Sep 2025 17:16

Tgt Ion: 75 Resp: 2527
Ion Ratio Lower Upper
75 100
53 0.0 70.8 106.2#
89 0.0 38.1 57.1#





#90

Hexachloroethane

Concen: 1.305 ug/l

RT: 14.059 min Scan# 2077

Delta R.T. 0.189 min

Lab File: VY023379.D

Acq: 25 Sep 2025 17:16

Instrument :

MSVOA_Y

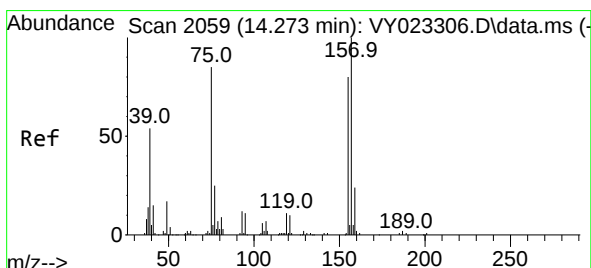
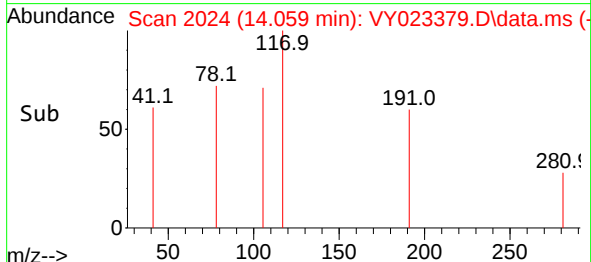
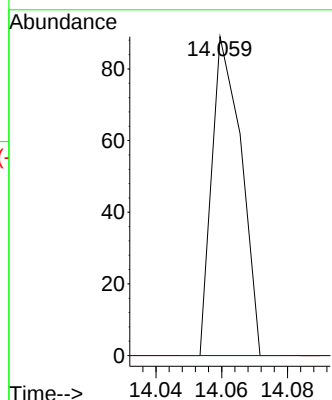
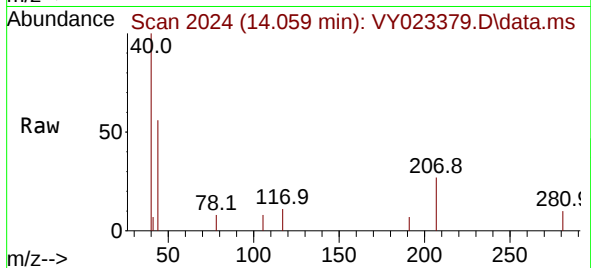
ClientSampleId :

Tgt Ion:117 Resp: 55

Ion Ratio Lower Upper

117 100

201 0.0 38.4 115.1#



#92

1,2-Dibromo-3-Chloropropane

Concen: 4.950 ug/l

RT: 14.383 min Scan# 2077

Delta R.T. 0.116 min

Lab File: VY023379.D

Acq: 25 Sep 2025 17:16

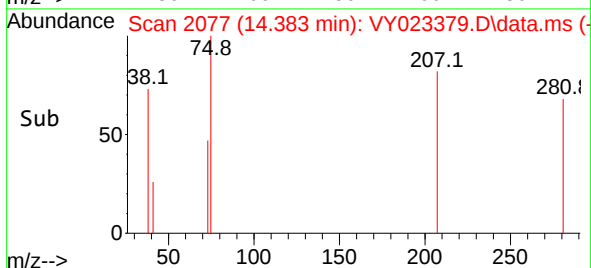
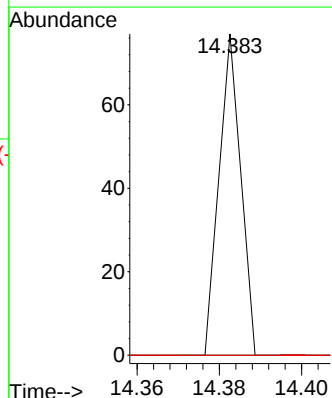
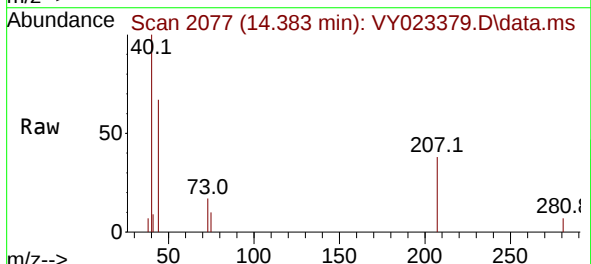
Tgt Ion: 75 Resp: 28

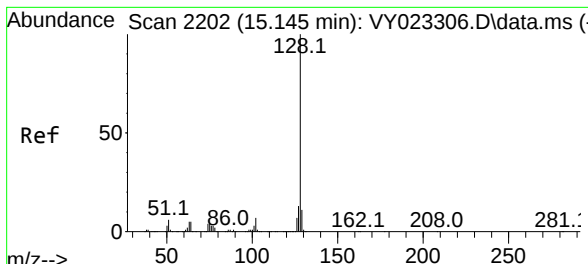
Ion Ratio Lower Upper

75 100

155 0.0 43.9 131.6#

157 0.0 57.2 171.6#





#95
 Naphthalene
 Concen: 1.645 ug/l
 RT: 15.145 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VY023379.D
 Acq: 25 Sep 2025 17:16

Instrument :
 MSVOA_Y
 ClientSampleId :

Tgt Ion:	128	Resp:	146
Ion	Ratio	Lower	Upper
128	100		
127	15.1	10.4	15.6
129	0.0	9.0	13.4#

