

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120225\
 Data File : VY023855.D
 Acq On : 02 Dec 2025 12:55
 Operator : SY/MD
 Sample : Q3741-04RE
 Misc : 5.07g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Dec 03 01:02:48 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y112625S.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 27 01:14:36 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.720	168	25955	50.000	ug/l	0.01
34) 1,4-Difluorobenzene	8.622	114	35095	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	25851	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	4746	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	13289	52.575	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	105.160%
35) Dibromofluoromethane	7.646	113	8793	42.295	ug/l	0.01
Spiked Amount	50.000	Range	54 - 147	Recovery	=	84.580%
50) Toluene-d8	10.109	98	40585	49.148	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	98.300%
62) 4-Bromofluorobenzene	12.408	95	6724	24.747	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	49.500%

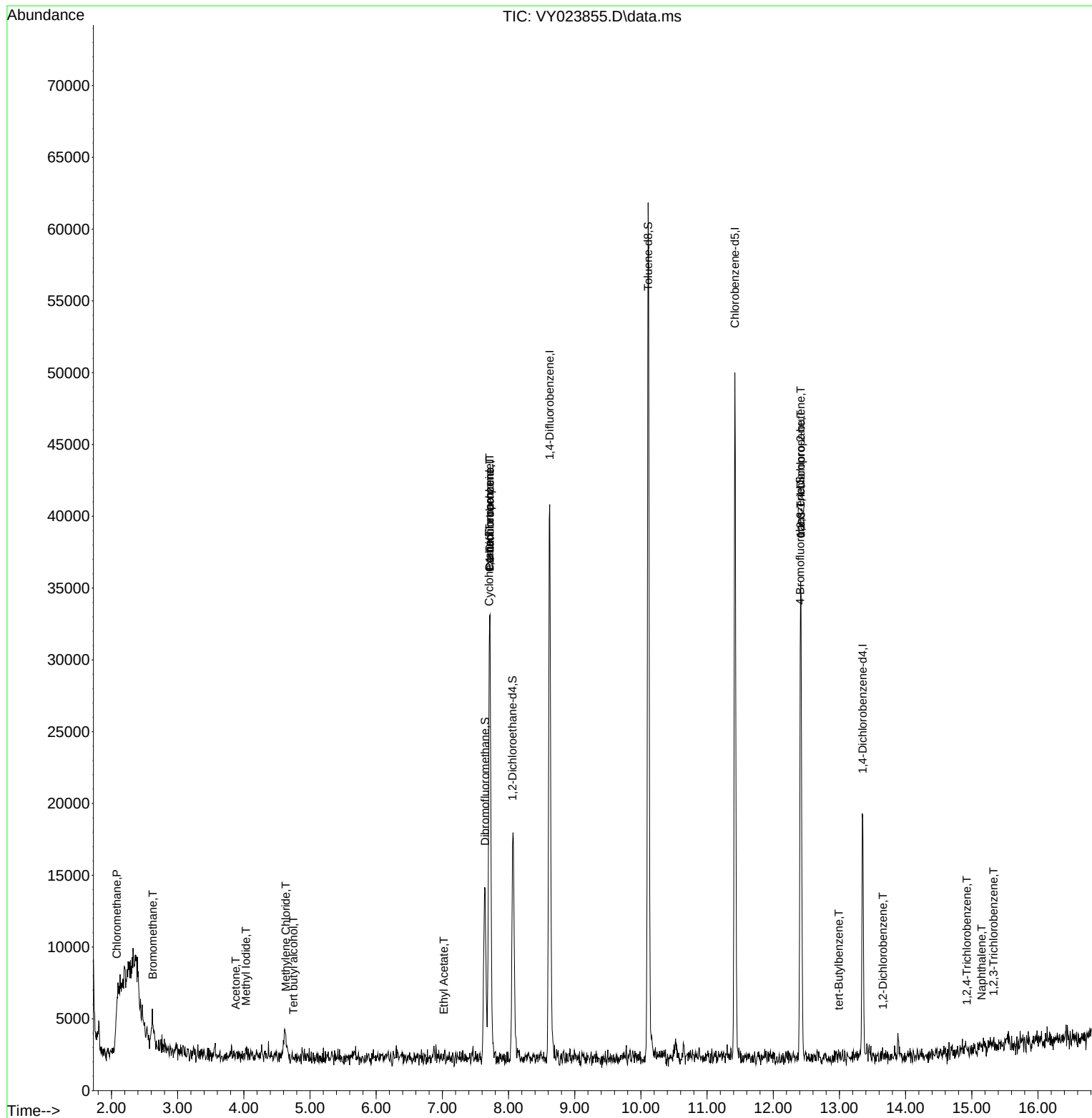
Target Compounds						Qvalue
3) Chloromethane	2.080	50	472	1.577	ug/l	94
5) Bromomethane	2.623	94	984	4.309	ug/l	86
10) Methyl Iodide	4.031	142	741	2.647	ug/l #	98
11) Tert butyl alcohol	4.751	59	27	1.301	ug/l #	73
16) Acetone	3.879	43	395	5.424	ug/l #	43
20) Methylene Chloride	4.635	84	1315	4.271	ug/l #	82
31) Cyclohexane	7.707	56	536	1.103	ug/l #	39
36) 1,1-Dichloropropene	7.713	75	1911	5.995	ug/l #	41
37) Ethyl Acetate	7.025	43	165	1.100	ug/l #	69
38) Carbon Tetrachloride	7.713	117	2490	7.117	ug/l #	12
76) 1,2,3-Trichloropropane	12.414	75	4161	100.819	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.414	75	4161	213.101	ug/l #	14
83) tert-Butylbenzene	12.993	119	290	1.174	ug/l #	27
91) 1,2-Dichlorobenzene	13.658	146	152	1.095	ug/l #	24
93) 1,2,4-Trichlorobenzene	14.926	180	157	1.896	ug/l #	28
95) Naphthalene	15.151	128	335	2.399	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.328	180	238	3.375	ug/l #	39

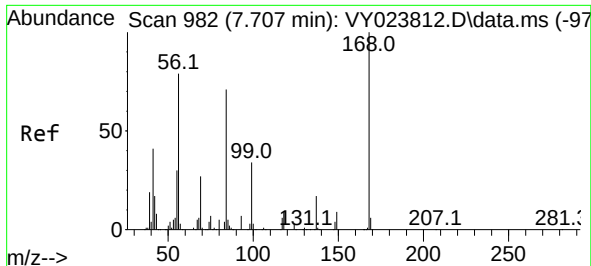
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120225\
Data File : VY023855.D
Acq On : 02 Dec 2025 12:55
Operator : SY/MD
Sample : Q3741-04RE
Misc : 5.07g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :

Quant Time: Dec 03 01:02:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y112625S.M
Quant Title : SW846 8260
QLast Update : Thu Nov 27 01:14:36 2025
Response via : Initial Calibration

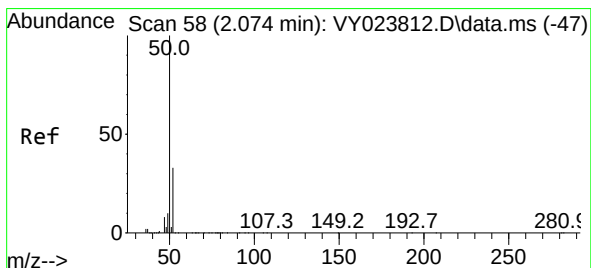
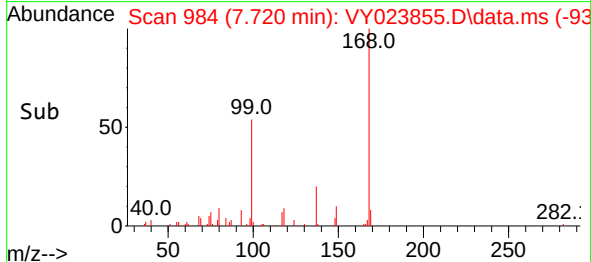
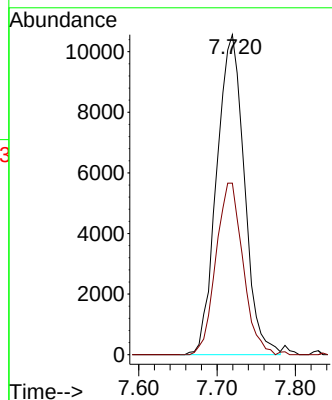
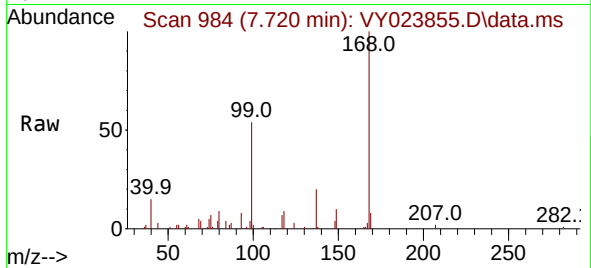




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.720 min Scan# 91
Delta R.T. 0.013 min
Lab File: VY023855.D
Acq: 02 Dec 2025 12:55

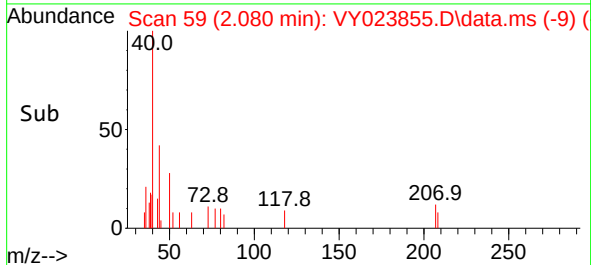
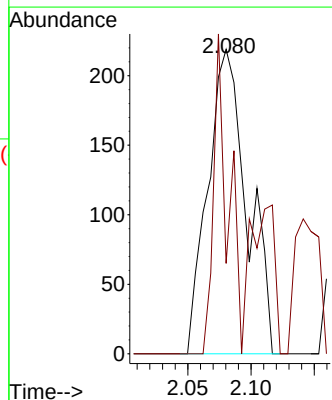
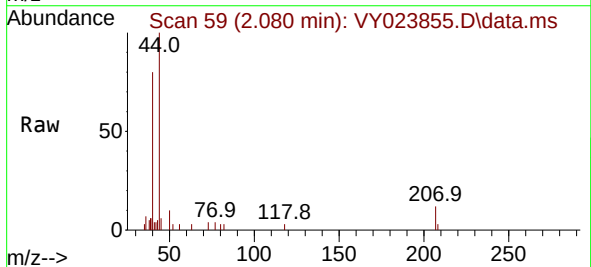
Instrument :
MSVOA_Y
ClientSampleId :

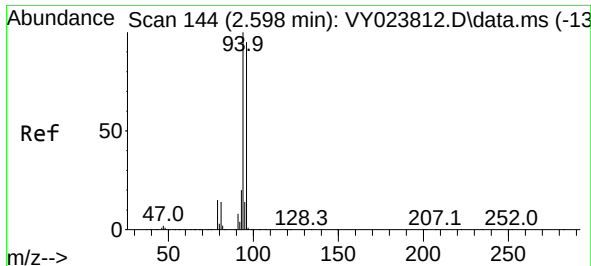
Tgt Ion:168 Resp: 25955
Ion Ratio Lower Upper
168 100
99 53.6 44.0 66.0



#3
Chloromethane
Concen: 1.577 ug/l
RT: 2.080 min Scan# 59
Delta R.T. 0.006 min
Lab File: VY023855.D
Acq: 02 Dec 2025 12:55

Tgt Ion: 50 Resp: 472
Ion Ratio Lower Upper
50 100
52 29.7 26.6 39.8

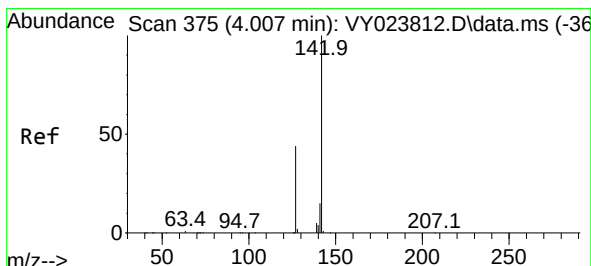
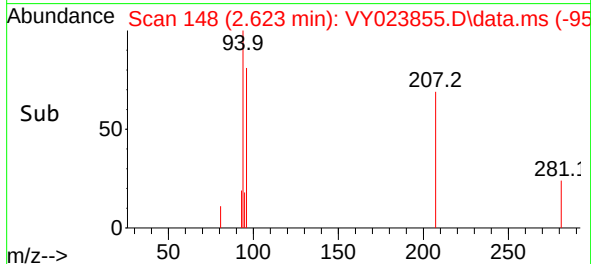
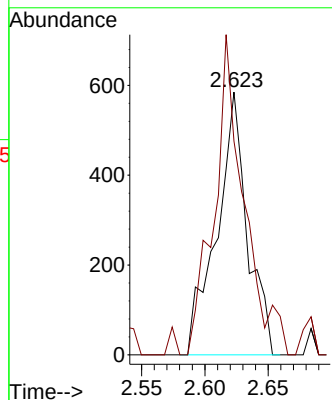
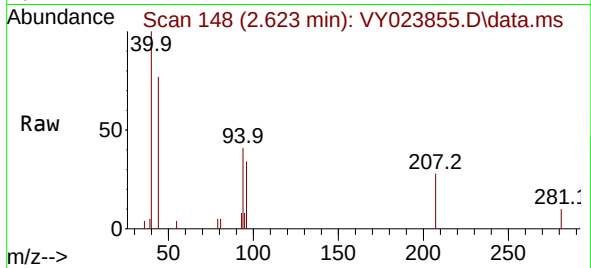




#5
Bromomethane
Concen: 4.309 ug/l
RT: 2.623 min Scan# 144
Delta R.T. 0.025 min
Lab File: VY023855.D
Acq: 02 Dec 2025 12:55

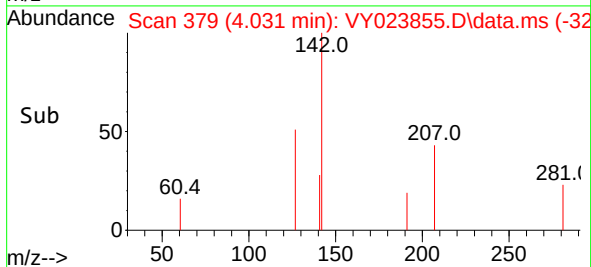
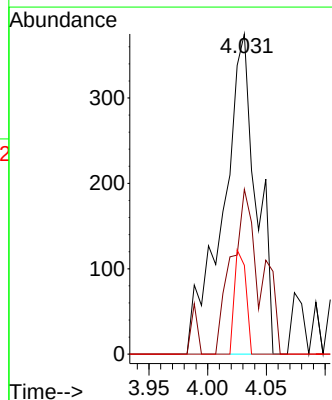
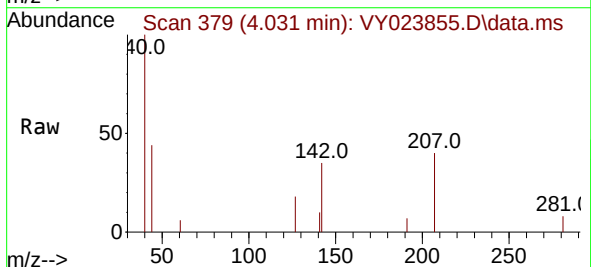
Instrument :
MSVOA_Y
ClientSampleId :

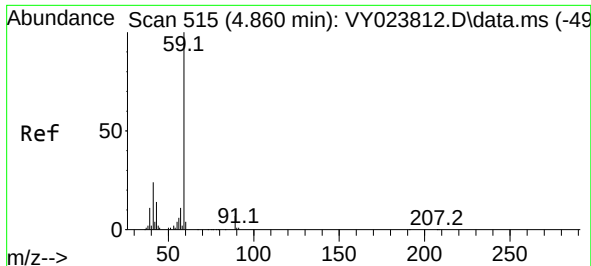
Tgt Ion: 94 Resp: 984
Ion Ratio Lower Upper
94 100
96 81.4 76.1 114.1



#10
Methyl Iodide
Concen: 2.647 ug/l
RT: 4.031 min Scan# 379
Delta R.T. 0.025 min
Lab File: VY023855.D
Acq: 02 Dec 2025 12:55

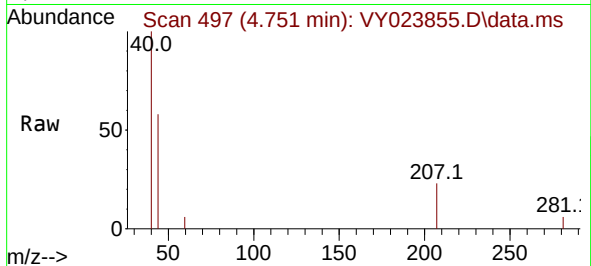
Tgt Ion:142 Resp: 741
Ion Ratio Lower Upper
142 100
127 44.8 36.2 54.2
141 11.2 11.4 17.0#



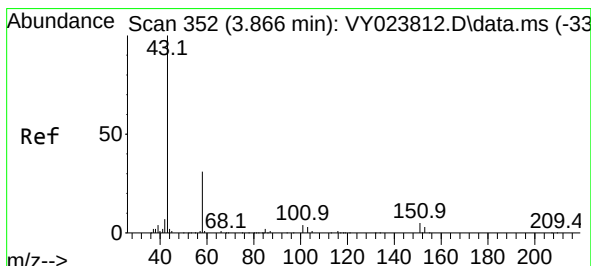
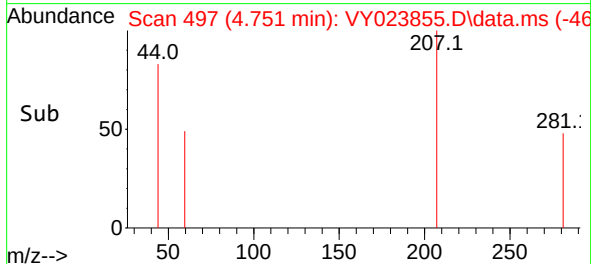
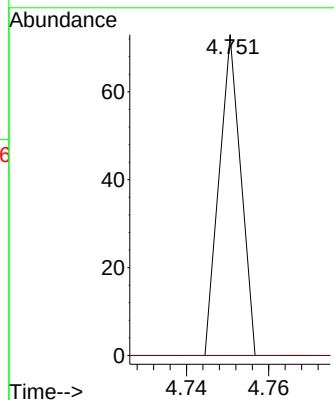


#11
Tert butyl alcohol
Concen: 1.301 ug/l
RT: 4.751 min Scan# 497
Delta R.T. -0.110 min
Lab File: VY023855.D
Acq: 02 Dec 2025 12:55

Instrument :
MSVOA_Y
ClientSampleId :

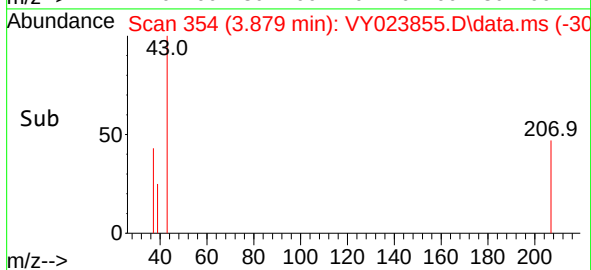
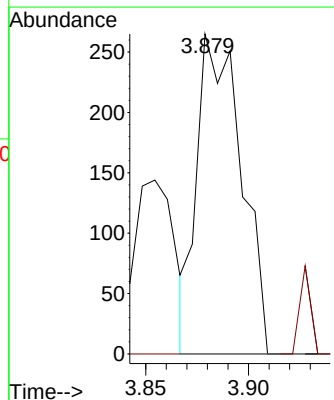
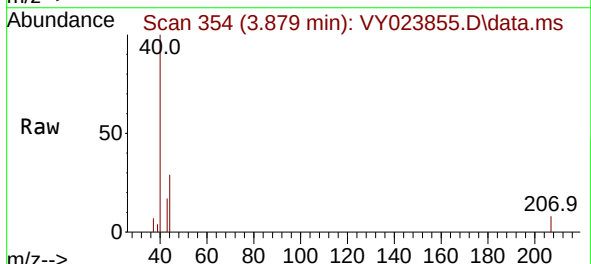


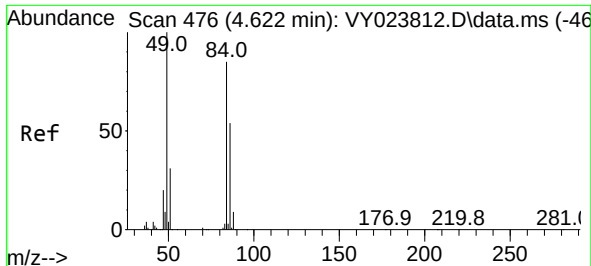
Tgt Ion: 59 Resp: 27
Ion Ratio Lower Upper
59 100
57 0.0 8.0 12.0#



#16
Acetone
Concen: 5.424 ug/l
RT: 3.879 min Scan# 354
Delta R.T. 0.012 min
Lab File: VY023855.D
Acq: 02 Dec 2025 12:55

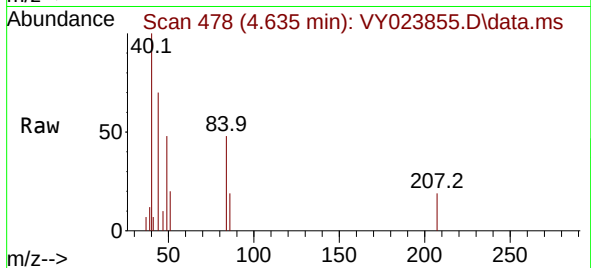
Tgt Ion: 43 Resp: 395
Ion Ratio Lower Upper
43 100
58 0.0 25.4 38.2#





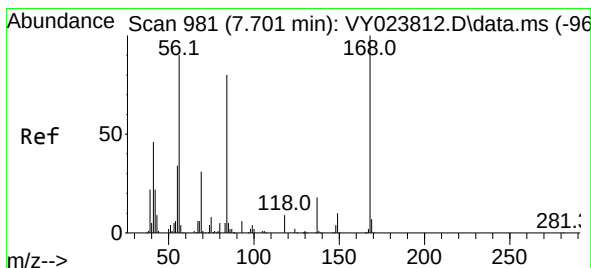
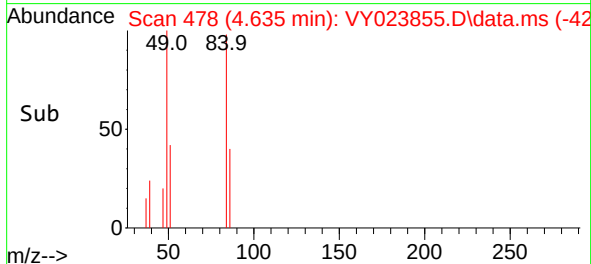
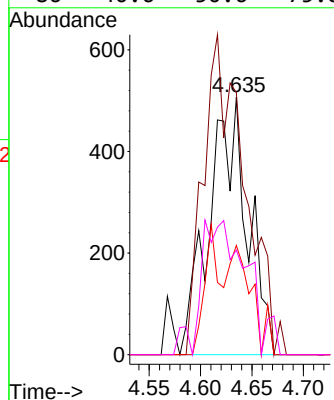
#20
Methylene Chloride
Concen: 4.271 ug/l
RT: 4.635 min Scan# 41
Delta R.T. 0.012 min
Lab File: VY023855.D
Acq: 02 Dec 2025 12:55

Instrument :
MSVOA_Y
ClientSampleId :



Tgt Ion: 84 Resp: 1315

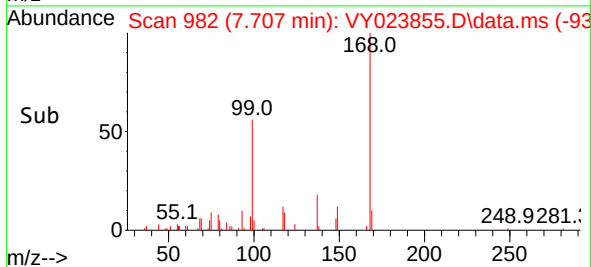
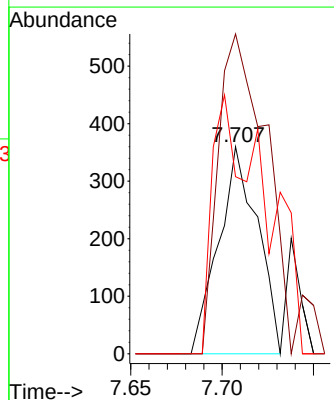
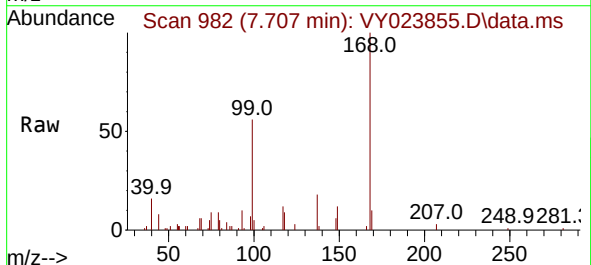
Ion	Ratio	Lower	Upper
84	100		
49	101.8	94.0	141.0
51	42.4	29.2	43.8
86	40.6	50.6	75.8

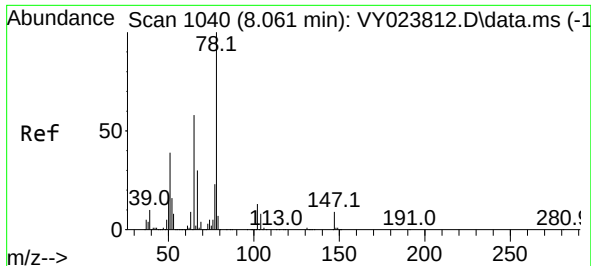


#31
Cyclohexane
Concen: 1.103 ug/l
RT: 7.707 min Scan# 982
Delta R.T. 0.006 min
Lab File: VY023855.D
Acq: 02 Dec 2025 12:55

Tgt Ion: 56 Resp: 536

Ion	Ratio	Lower	Upper
56	100		
69	154.4	27.8	41.6
84	85.6	71.8	107.8





#33

1,2-Dichloroethane-d4

Concen: 52.575 ug/l

RT: 8.061 min Scan# 110

Delta R.T. 0.000 min

Lab File: VY023855.D

Acq: 02 Dec 2025 12:55

Instrument :

MSVOA_Y

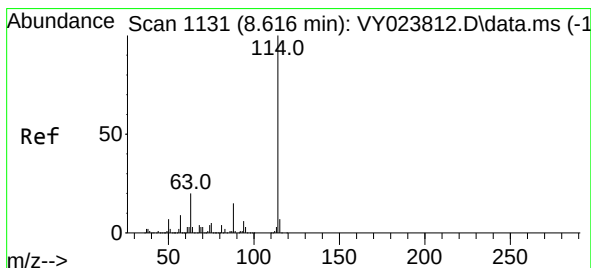
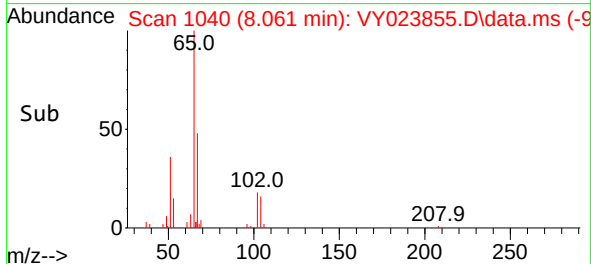
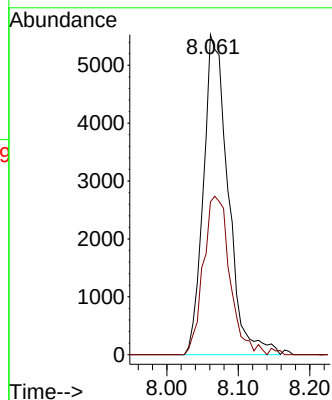
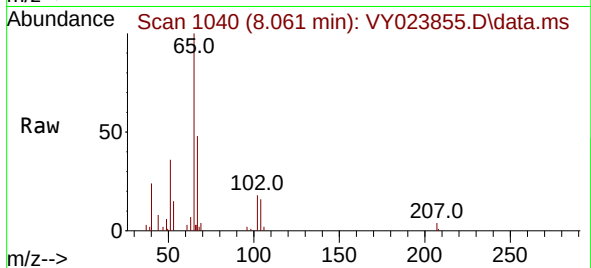
ClientSampleId :

Tgt Ion: 65 Resp: 13289

Ion Ratio Lower Upper

65 100

67 52.9 0.0 107.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.622 min Scan# 1132

Delta R.T. 0.006 min

Lab File: VY023855.D

Acq: 02 Dec 2025 12:55

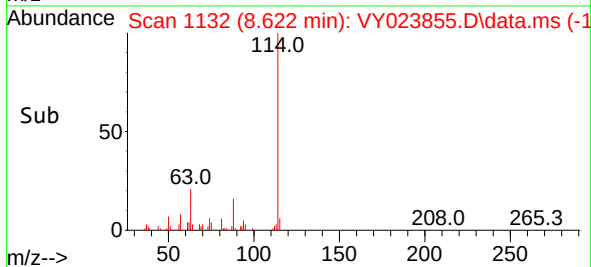
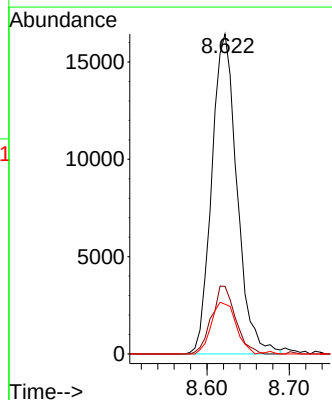
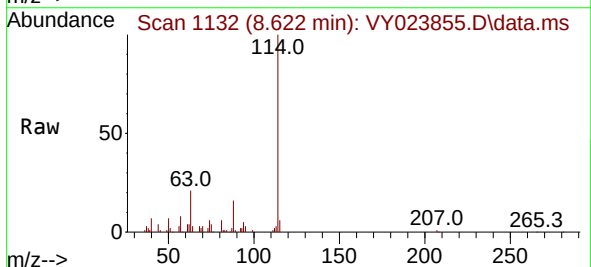
Tgt Ion: 114 Resp: 35095

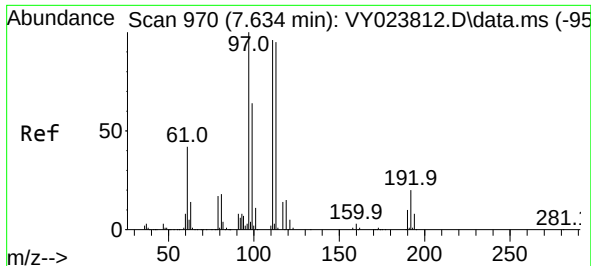
Ion Ratio Lower Upper

114 100

63 21.2 0.0 39.4

88 15.5 0.0 30.8

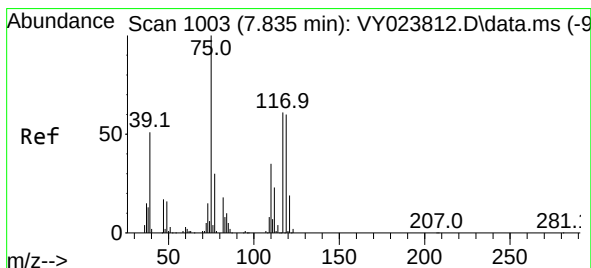
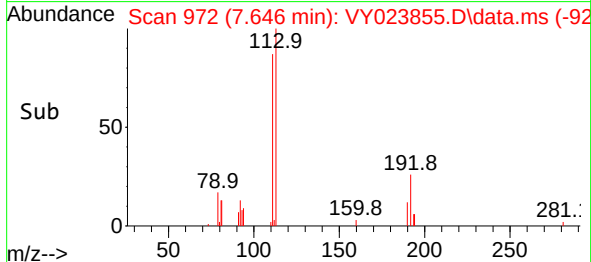
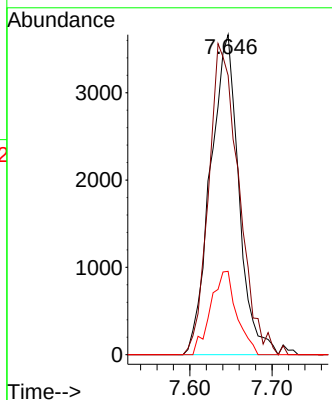
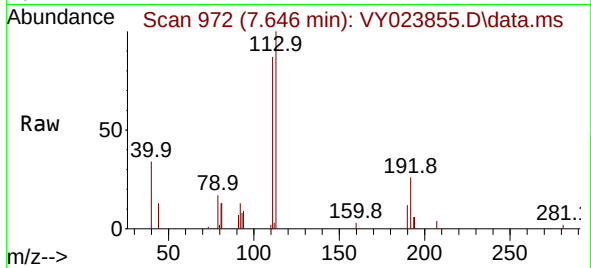




#35
Dibromofluoromethane
Concen: 42.295 ug/l
RT: 7.646 min Scan# 91
Delta R.T. 0.012 min
Lab File: VY023855.D
Acq: 02 Dec 2025 12:55

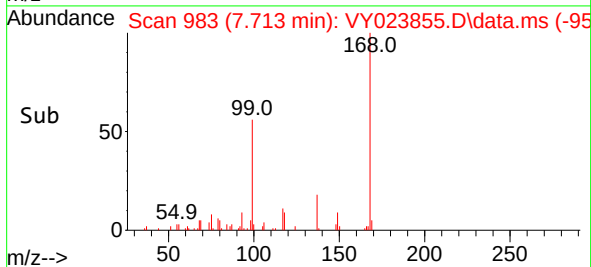
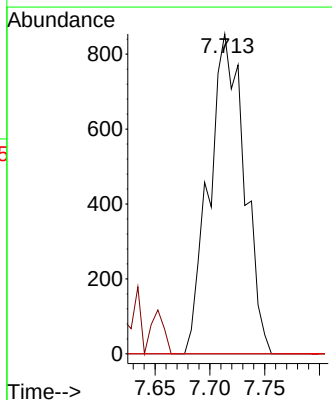
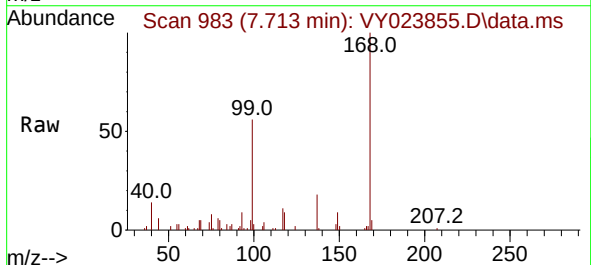
Instrument :
MSVOA_Y
ClientSampleId :

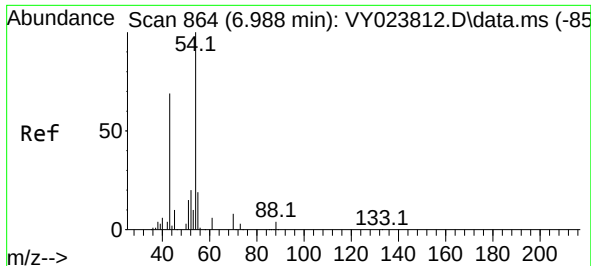
Tgt Ion:113 Resp: 8793
Ion Ratio Lower Upper
113 100
111 103.1 81.4 122.0
192 23.9 15.8 23.8#



#36
1,1-Dichloropropene
Concen: 5.995 ug/l
RT: 7.713 min Scan# 983
Delta R.T. -0.122 min
Lab File: VY023855.D
Acq: 02 Dec 2025 12:55

Tgt Ion: 75 Resp: 1911
Ion Ratio Lower Upper
75 100
110 0.0 17.6 52.8#
77 0.0 24.9 37.3#





#37

Ethyl Acetate

Concen: 1.100 ug/l

RT: 7.025 min Scan# 81

Delta R.T. 0.037 min

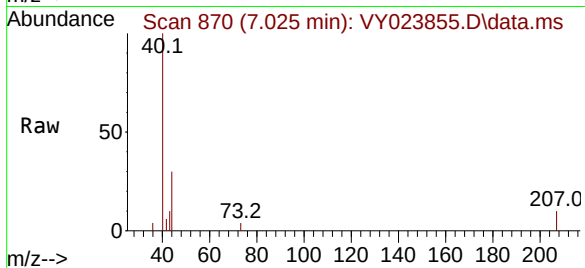
Lab File: VY023855.D

Acq: 02 Dec 2025 12:55

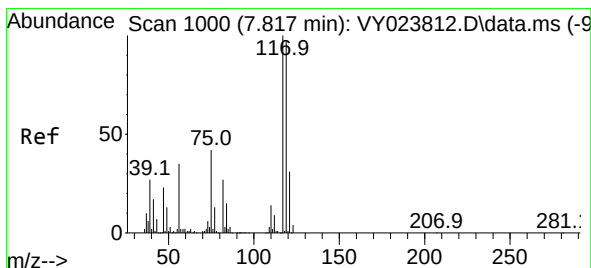
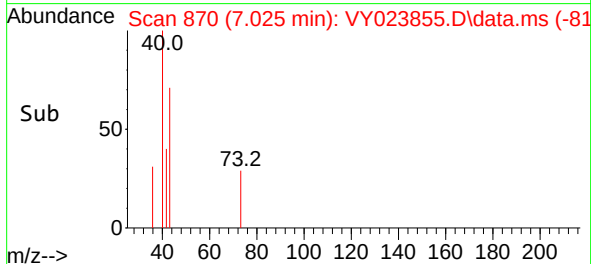
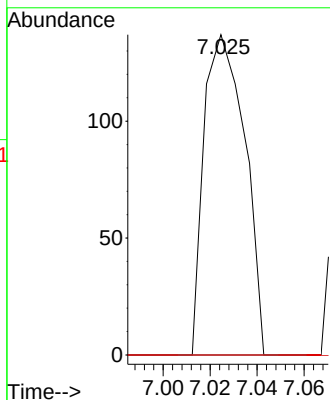
Instrument :

MSVOA_Y

ClientSampleId :



Tgt Ion:	43	Resp:	165
Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.0	16.6#
70	0.0	8.1	12.1#



#38

Carbon Tetrachloride

Concen: 7.117 ug/l

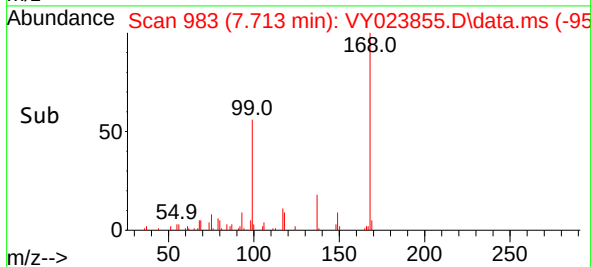
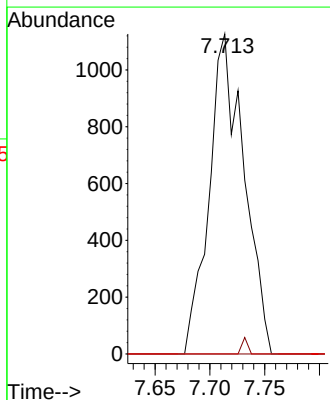
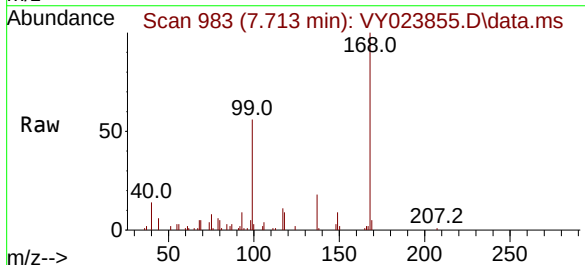
RT: 7.713 min Scan# 983

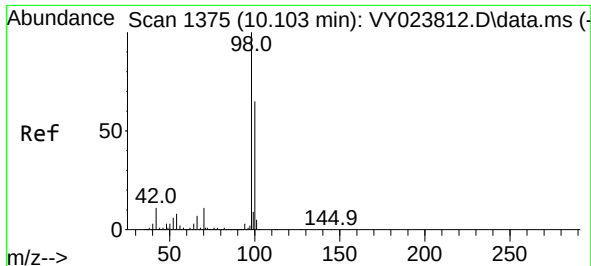
Delta R.T. -0.103 min

Lab File: VY023855.D

Acq: 02 Dec 2025 12:55

Tgt Ion:	117	Resp:	2490
Ion	Ratio	Lower	Upper
117	100		
119	0.0	77.3	115.9#
121	0.0	25.0	37.6#

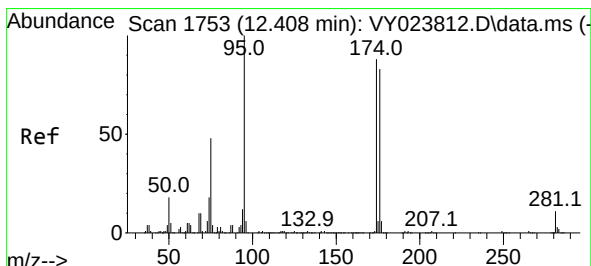
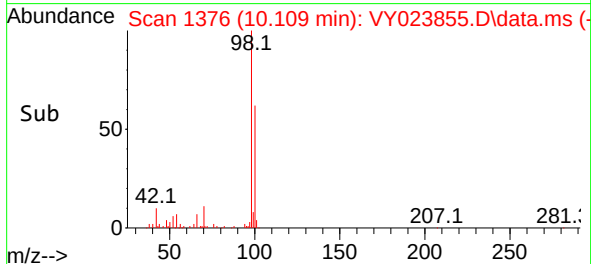
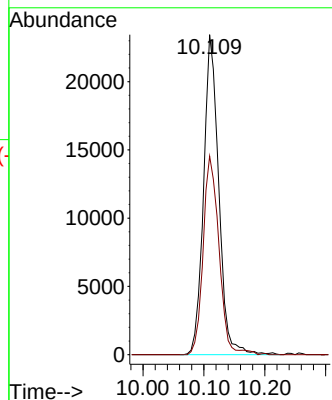
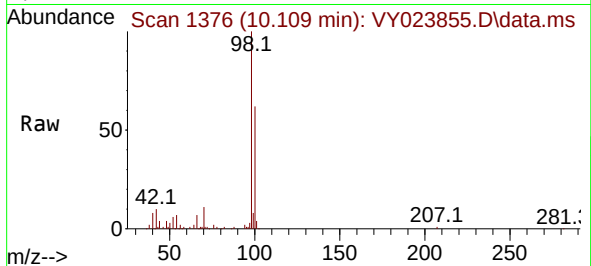




#50
Toluene-d8
Concen: 49.148 ug/l
RT: 10.109 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY023855.D
Acq: 02 Dec 2025 12:55

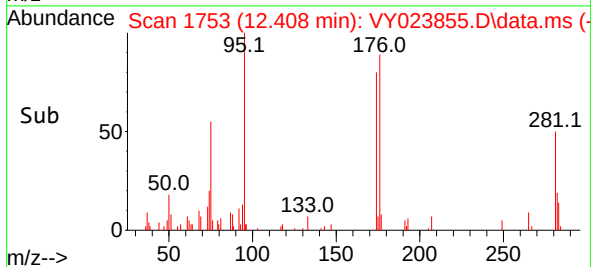
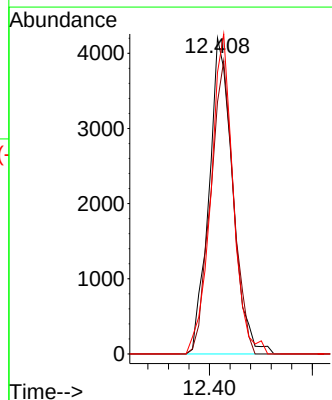
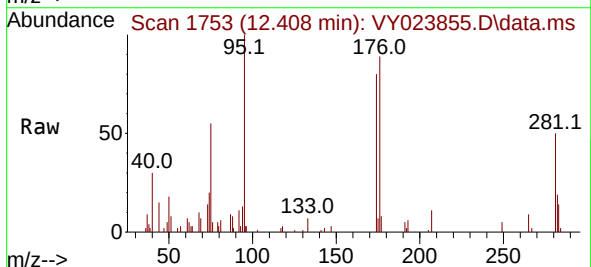
Instrument :
MSVOA_Y
ClientSampleId :

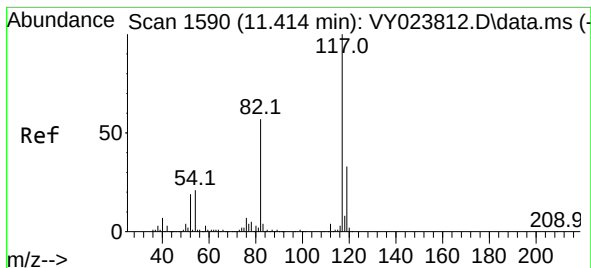
Tgt Ion: 98 Resp: 40585
Ion Ratio Lower Upper
98 100
100 64.9 51.9 77.9



#62
4-Bromofluorobenzene
Concen: 24.747 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY023855.D
Acq: 02 Dec 2025 12:55

Tgt Ion: 95 Resp: 6724
Ion Ratio Lower Upper
95 100
174 90.5 0.0 168.6
176 95.2 0.0 164.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY023855.D

Acq: 02 Dec 2025 12:55

Instrument :

MSVOA_Y

ClientSampleId :

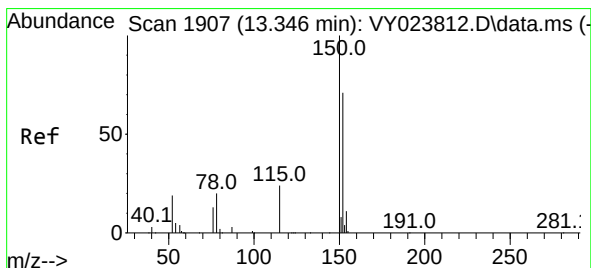
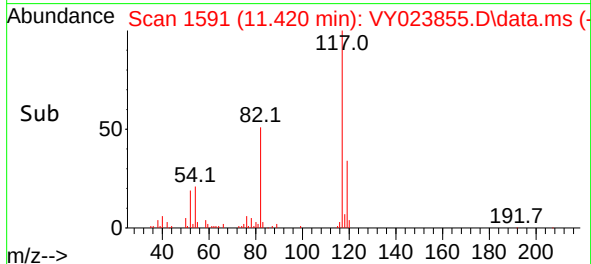
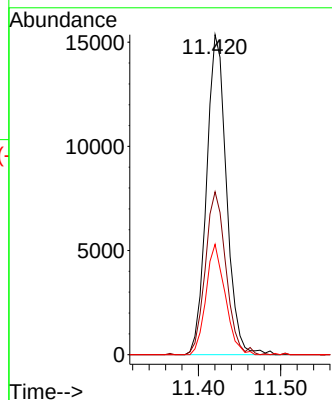
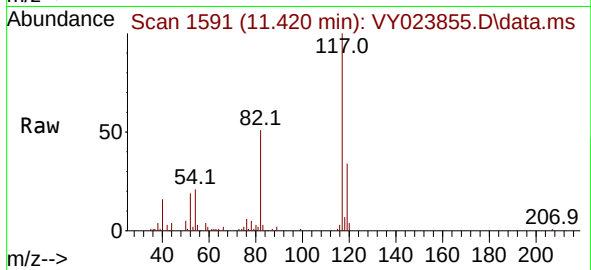
Tgt Ion:117 Resp: 25851

Ion Ratio Lower Upper

117 100

82 50.9 45.4 68.0

119 34.5 26.0 39.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.353 min Scan# 1908

Delta R.T. 0.006 min

Lab File: VY023855.D

Acq: 02 Dec 2025 12:55

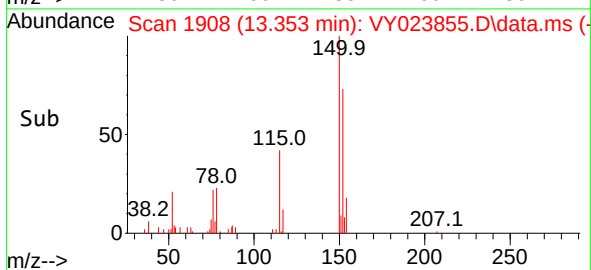
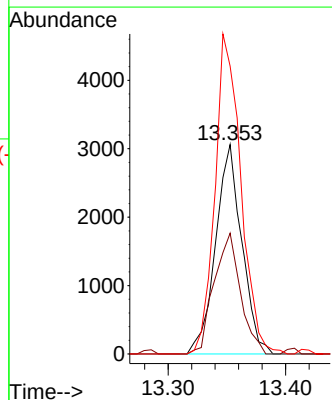
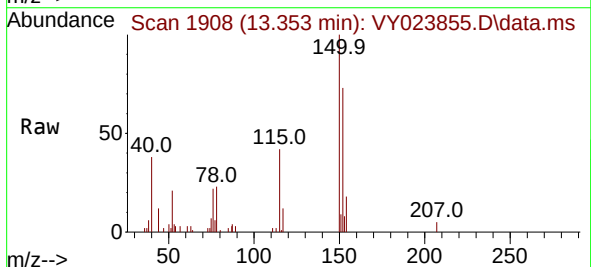
Tgt Ion:152 Resp: 4746

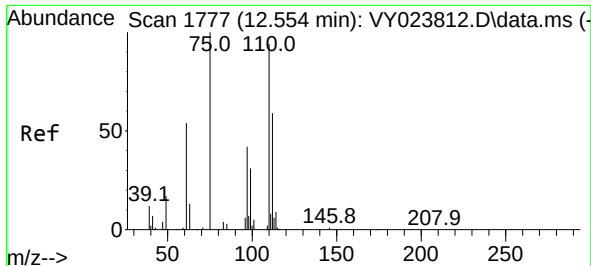
Ion Ratio Lower Upper

152 100

115 58.2 28.7 86.3

150 150.8 0.0 345.6

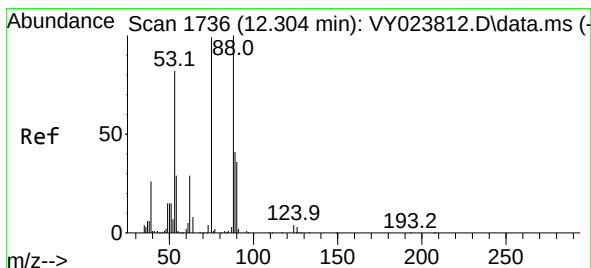
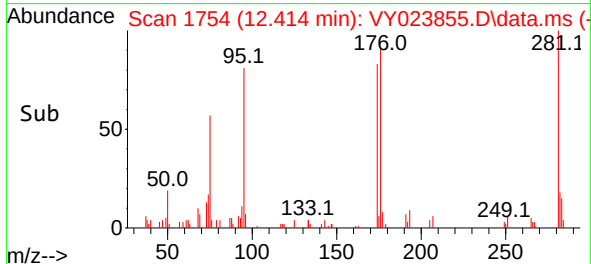
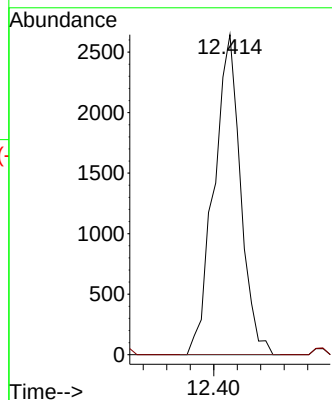
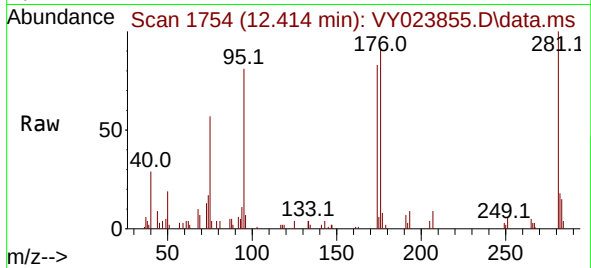




#76
1,2,3-Trichloropropane
Concen: 100.819 ug/l
RT: 12.414 min Scan# 1754
Delta R.T. -0.140 min
Lab File: VY023855.D
Acq: 02 Dec 2025 12:55

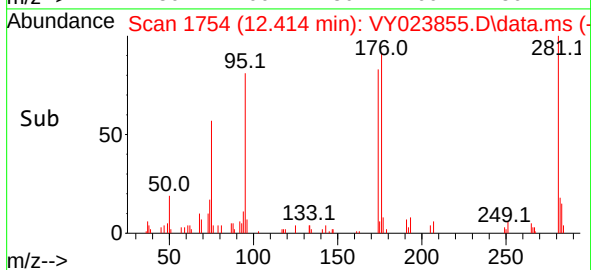
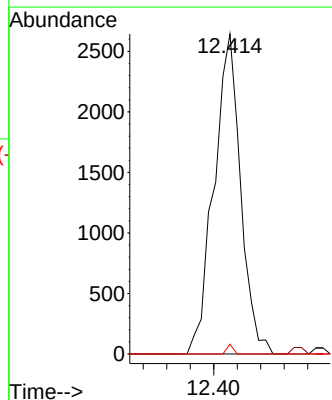
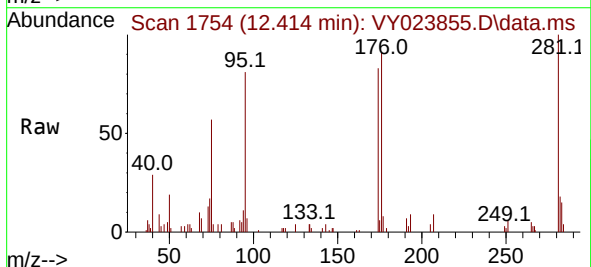
Instrument :
MSVOA_Y
ClientSampleId :

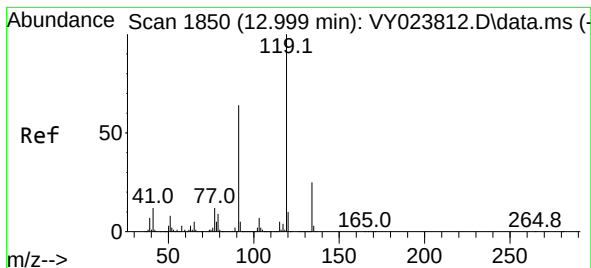
Tgt Ion: 75 Resp: 4161
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0



#81
trans-1,4-Dichloro-2-butene
Concen: 213.101 ug/l
RT: 12.414 min Scan# 1754
Delta R.T. 0.110 min
Lab File: VY023855.D
Acq: 02 Dec 2025 12:55

Tgt Ion: 75 Resp: 4161
Ion Ratio Lower Upper
75 100
53 0.0 71.3 106.9#
89 0.7 37.0 55.4#

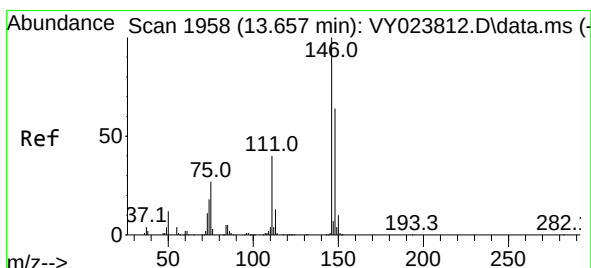
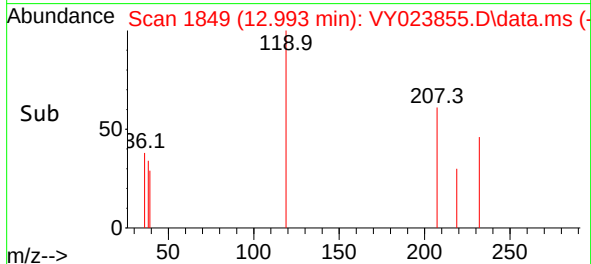
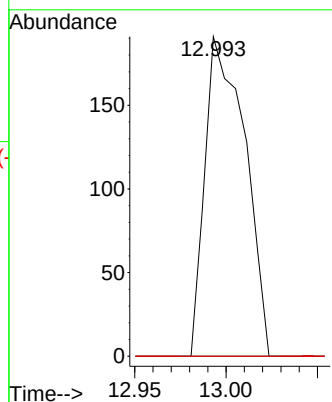
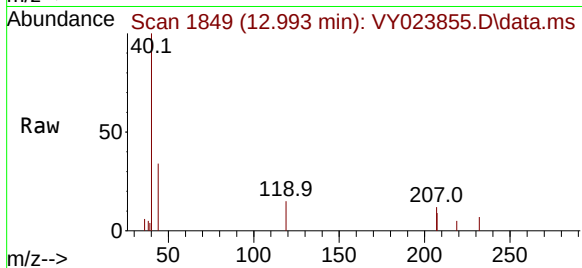




#83
tert-Butylbenzene
Concen: 1.174 ug/l
RT: 12.993 min Scan# 119
Delta R.T. -0.006 min
Lab File: VY023855.D
Acq: 02 Dec 2025 12:55

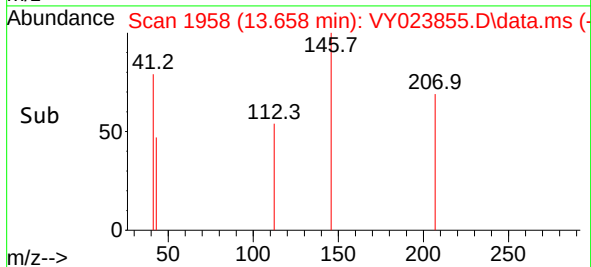
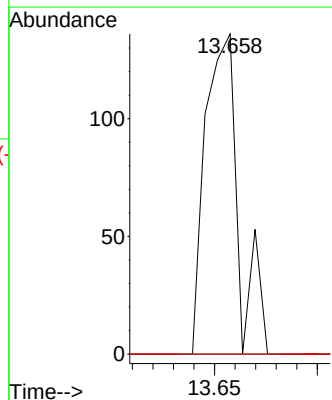
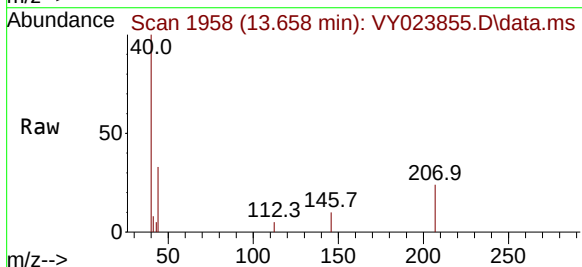
Instrument :
MSVOA_Y
ClientSampleId :

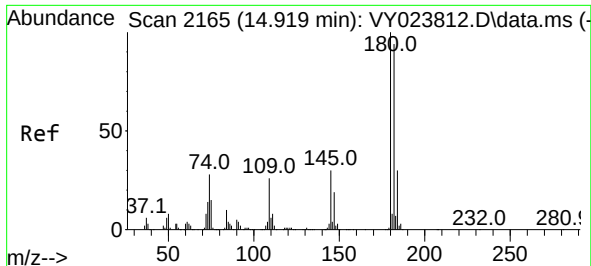
Tgt Ion:119 Resp: 290
Ion Ratio Lower Upper
119 100
91 0.0 32.0 96.0#
134 0.0 12.8 38.4#



#91
1,2-Dichlorobenzene
Concen: 1.095 ug/l
RT: 13.658 min Scan# 1958
Delta R.T. 0.000 min
Lab File: VY023855.D
Acq: 02 Dec 2025 12:55

Tgt Ion:146 Resp: 152
Ion Ratio Lower Upper
146 100
111 0.0 20.5 61.5#
148 0.0 32.1 96.5#

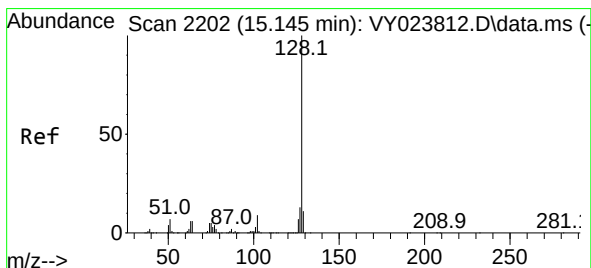
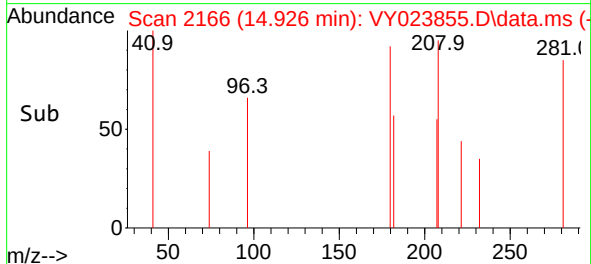
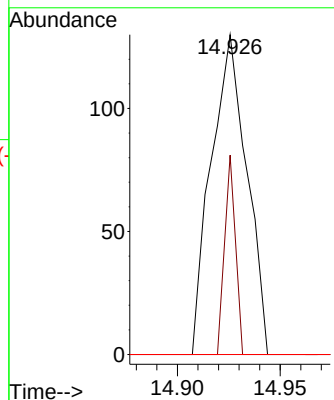
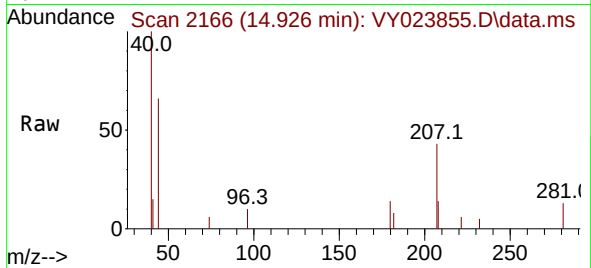




#93
 1,2,4-Trichlorobenzene
 Concen: 1.896 ug/l
 RT: 14.926 min Scan# 2166
 Delta R.T. 0.006 min
 Lab File: VY023855.D
 Acq: 02 Dec 2025 12:55

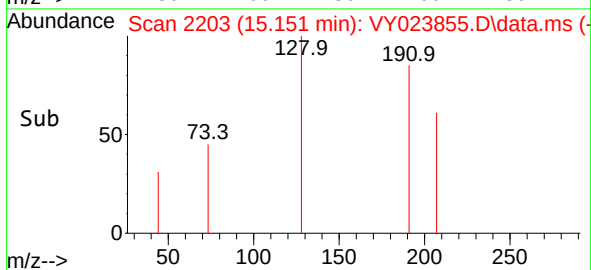
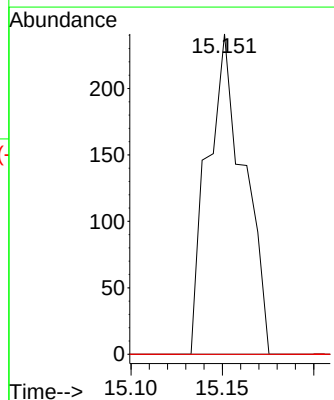
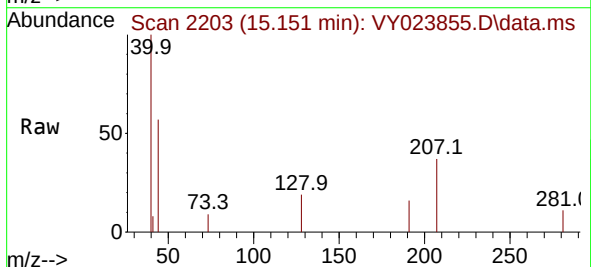
Instrument :
 MSVOA_Y
 ClientSampleId :

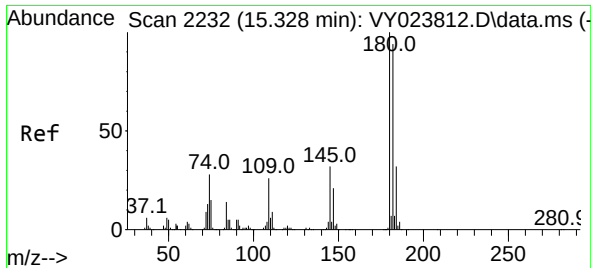
Tgt Ion:180 Resp: 157
 Ion Ratio Lower Upper
 180 100
 182 19.1 47.2 141.6#
 145 0.0 15.4 46.2#



#95
 Naphthalene
 Concen: 2.399 ug/l
 RT: 15.151 min Scan# 2203
 Delta R.T. 0.006 min
 Lab File: VY023855.D
 Acq: 02 Dec 2025 12:55

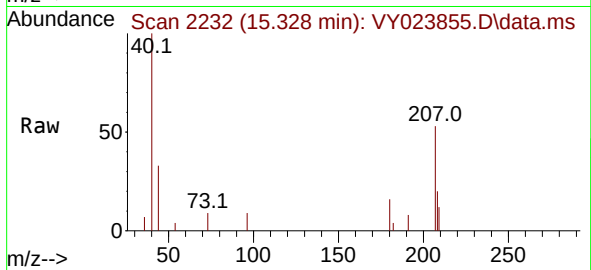
Tgt Ion:128 Resp: 335
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.2 15.2#
 129 0.0 8.8 13.2#





#96
 1,2,3-Trichlorobenzene
 Concen: 3.375 ug/l
 RT: 15.328 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VY023855.D
 Acq: 02 Dec 2025 12:55

Instrument :
 MSVOA_Y
 ClientSampleId :



Tgt Ion:180 Resp: 238
 Ion Ratio Lower Upper
 180 100
 182 36.1 48.0 144.2#
 145 0.0 16.5 49.5#

