

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY012925\
 Data File : VY020969.D
 Acq On : 29 Jan 2025 17:05
 Operator : SY/MD
 Sample : Q1220-01RE
 Misc : 5.03g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

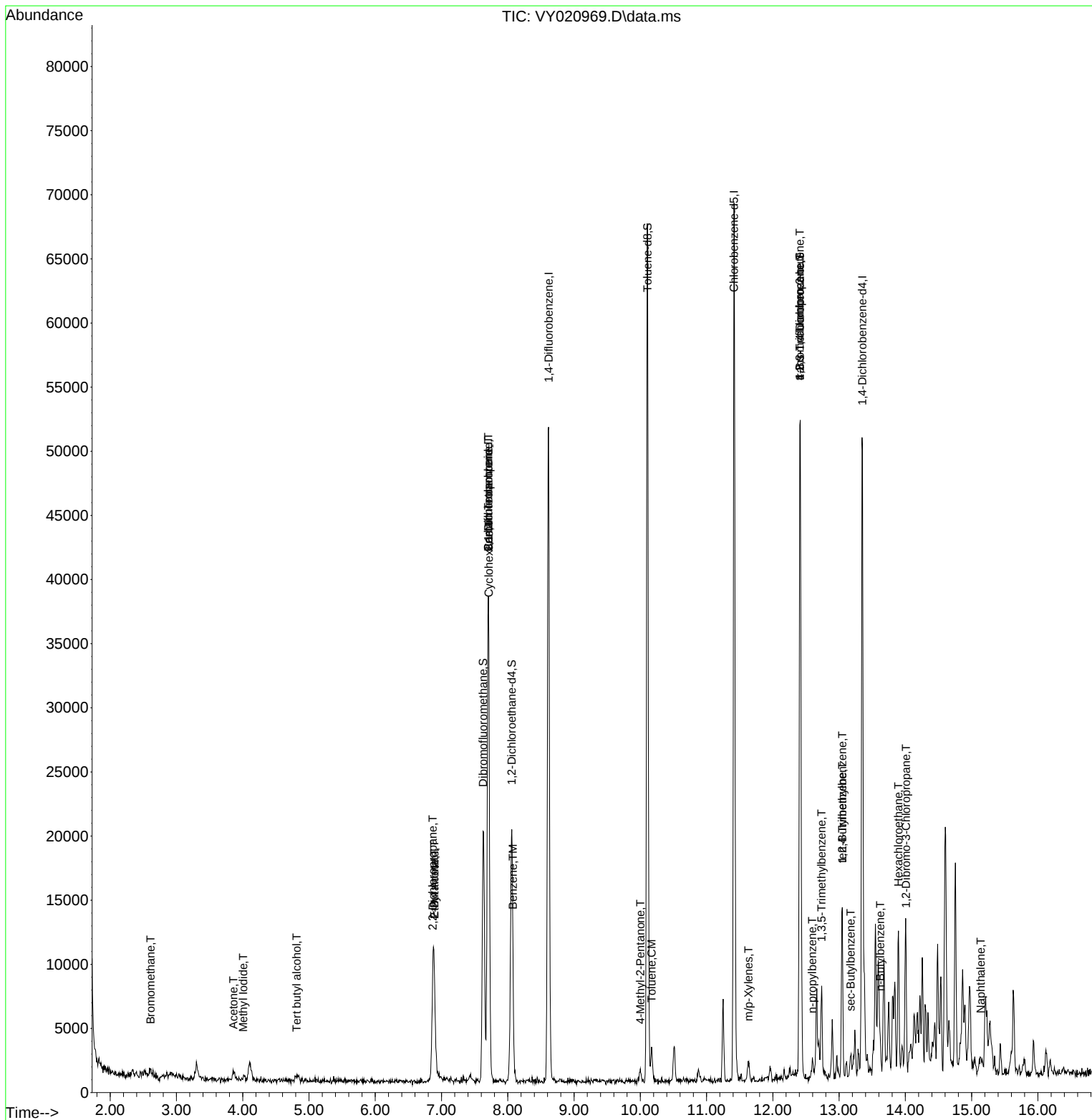
Quant Time: Jan 30 00:36:52 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y012425S.M
 Quant Title : SW846 8260
 QLast Update : Sat Jan 25 01:12:18 2025
 Response via : Initial Calibration

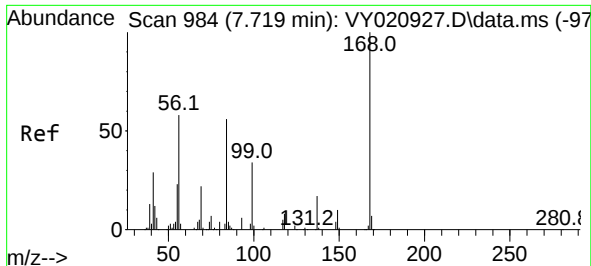
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	7.707	168	32237	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	8.616	114	47221	50.000	ug/l	-0.01
63) Chlorobenzene-d5	11.414	117	39049	50.000	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	13.352	152	13186	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	15422	60.001	ug/l	-0.01
Spiked Amount	50.000	Range	50 - 163	Recovery	= 120.000%	
35) Dibromofluoromethane	7.628	113	14249	52.562	ug/l	-0.02
Spiked Amount	50.000	Range	54 - 147	Recovery	= 105.120%	
50) Toluene-d8	10.109	98	46972	44.671	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 89.340%	
62) 4-Bromofluorobenzene	12.408	95	12810	36.606	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	= 73.220%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.610	94	255	1.905	ug/l	82
10) Methyl Iodide	4.007	142	671	2.032	ug/l #	57
11) Tert butyl alcohol	4.811	59	741	37.346	ug/l #	74
16) Acetone	3.860	43	1193	34.258	ug/l	98
25) 2-Butanone	6.890	43	589	9.985	ug/l #	42
26) 2,2-Dichloropropane	6.866	77	886	1.932	ug/l #	52
31) Cyclohexane	7.713	56	594	1.298	ug/l #	27
36) 1,1-Dichloropropene	7.707	75	2301	6.079	ug/l #	49
37) Ethyl Acetate	6.890	43	589	4.011	ug/l #	6
38) Carbon Tetrachloride	7.707	117	3092	6.774	ug/l #	17
40) Benzene	8.079	78	1218	1.097	ug/l #	69
51) 4-Methyl-2-Pentanone	9.999	43	651	4.637	ug/l #	83
52) Toluene	10.170	92	1186	1.661	ug/l	90
68) m/p-Xylenes	11.633	106	636	1.247	ug/l	93
76) 1,2,3-Trichloropropane	12.408	75	6730	72.187	ug/l #	100
78) n-propylbenzene	12.597	91	1430	1.352	ug/l	86
80) 1,3,5-Trimethylbenzene	12.737	105	1804	2.472	ug/l	97
81) trans-1,4-Dichloro-2-b...	12.408	75	6730	139.465	ug/l #	15
83) tert-Butylbenzene	13.048	119	1033	1.535	ug/l #	59
84) 1,2,4-Trimethylbenzene	13.048	105	7395	10.294	ug/l	96
85) sec-Butylbenzene	13.176	105	1355	1.412	ug/l	99
89) n-Butylbenzene	13.621	91	1212	1.695	ug/l #	75
90) Hexachloroethane	13.895	117	626	3.887	ug/l #	7
92) 1,2-Dibromo-3-Chloropr...	14.011	75	52	2.450	ug/l #	1
95) Naphthalene	15.139	128	987	2.897	ug/l #	86

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

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Response via : Initial Calibration

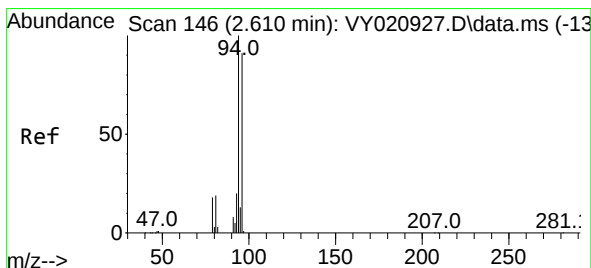
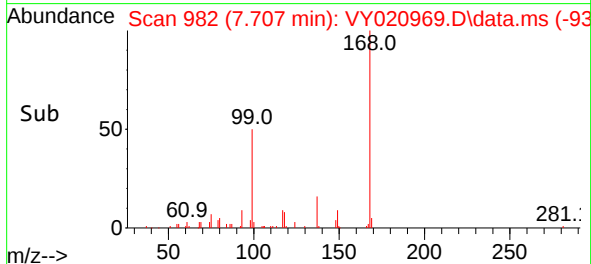
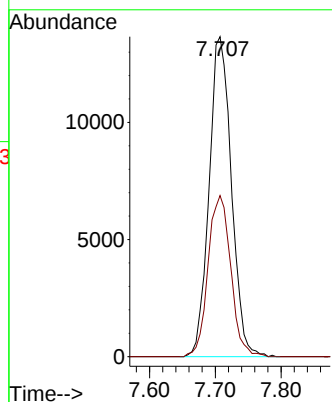
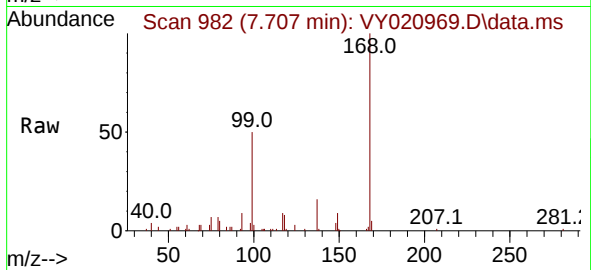




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.012 min
Lab File: VY020969.D
Acq: 29 Jan 2025 17:05

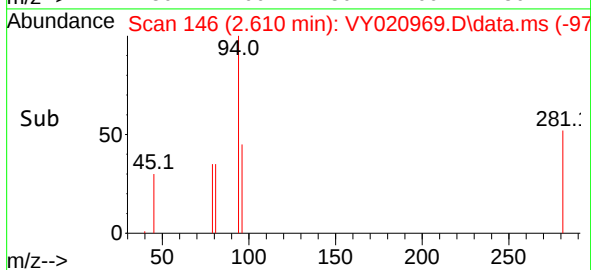
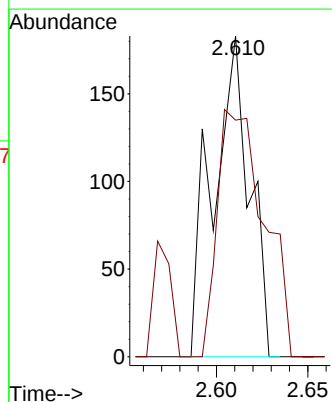
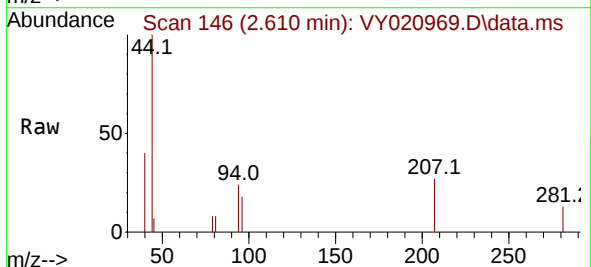
Instrument :
MSVOA_Y
ClientSampleId :

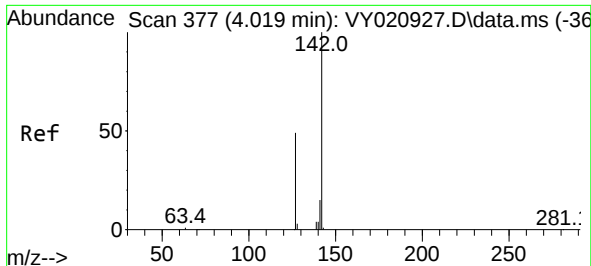
Tgt Ion:168 Resp: 32237
Ion Ratio Lower Upper
168 100
99 50.3 43.0 64.6



#5
Bromomethane
Concen: 1.905 ug/l
RT: 2.610 min Scan# 146
Delta R.T. 0.000 min
Lab File: VY020969.D
Acq: 29 Jan 2025 17:05

Tgt Ion: 94 Resp: 255
Ion Ratio Lower Upper
94 100
96 73.8 72.6 109.0

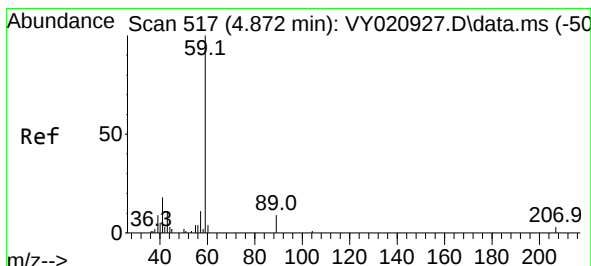
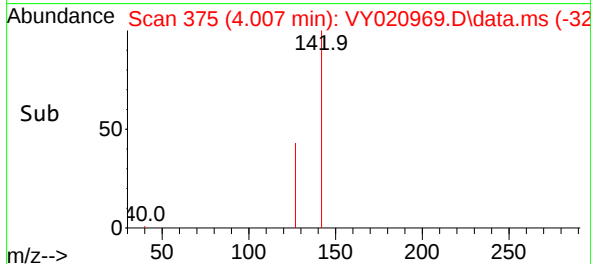
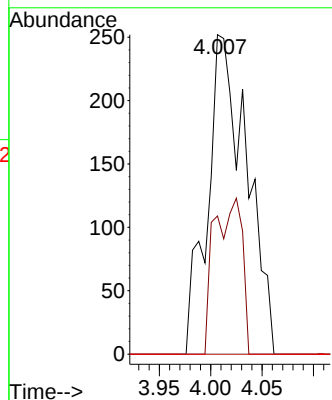
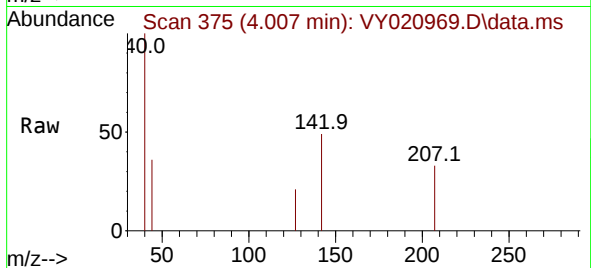




#10
Methyl Iodide
Concen: 2.032 ug/l
RT: 4.007 min Scan# 31
Delta R.T. -0.012 min
Lab File: VY020969.D
Acq: 29 Jan 2025 17:05

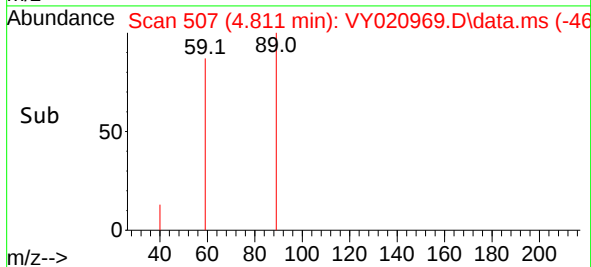
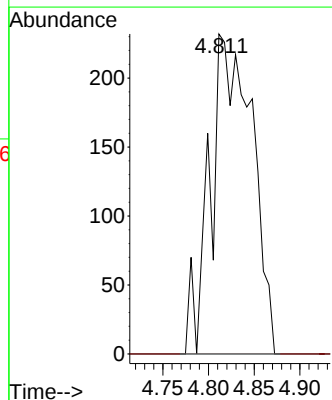
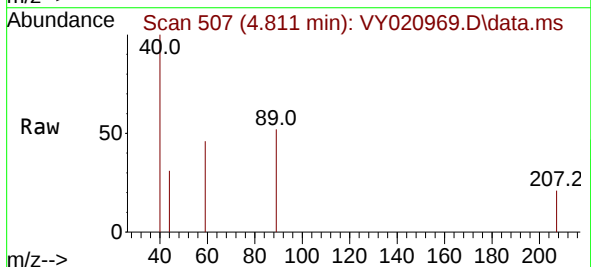
Instrument :
MSVOA_Y
ClientSampleId :

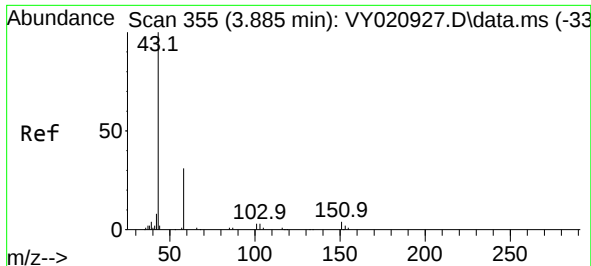
Tgt Ion:142 Resp: 671
Ion Ratio Lower Upper
142 100
127 16.5 37.3 55.9#
141 0.0 11.4 17.2#



#11
Tert butyl alcohol
Concen: 37.346 ug/l
RT: 4.811 min Scan# 507
Delta R.T. -0.061 min
Lab File: VY020969.D
Acq: 29 Jan 2025 17:05

Tgt Ion: 59 Resp: 741
Ion Ratio Lower Upper
59 100
57 0.0 7.7 11.5#

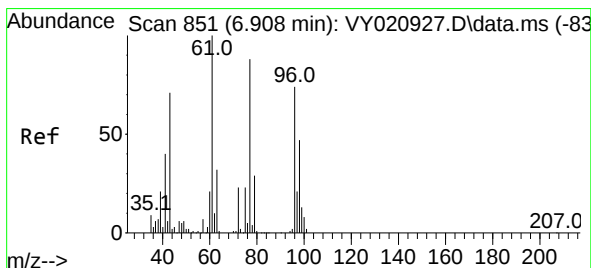
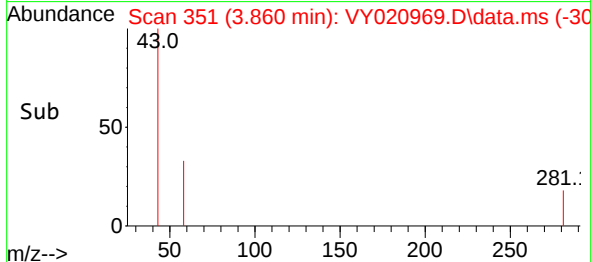
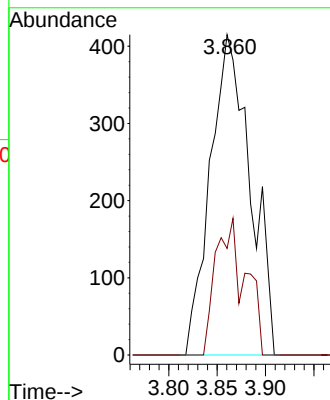
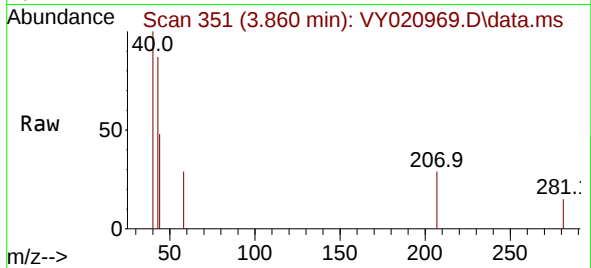




#16
Acetone
Concen: 34.258 ug/l
RT: 3.860 min Scan# 311
Delta R.T. -0.024 min
Lab File: VY020969.D
Acq: 29 Jan 2025 17:05

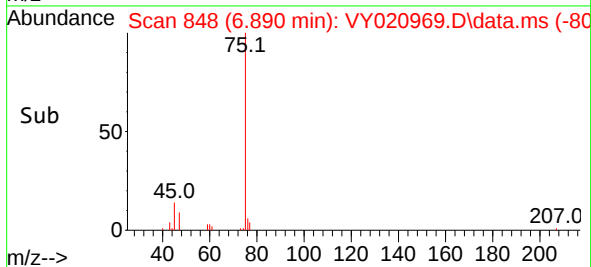
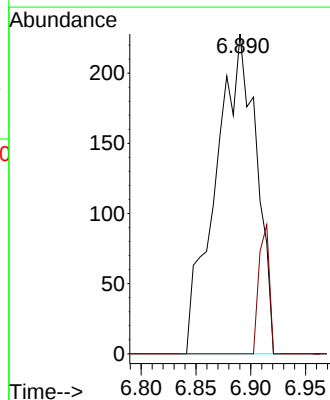
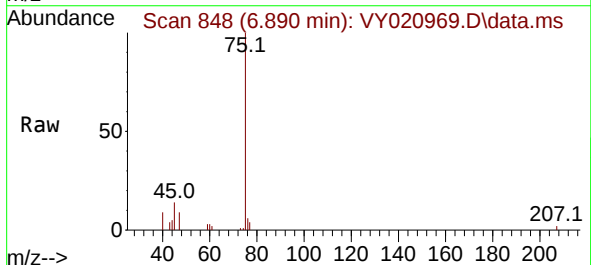
Instrument :
MSVOA_Y
ClientSampleId :

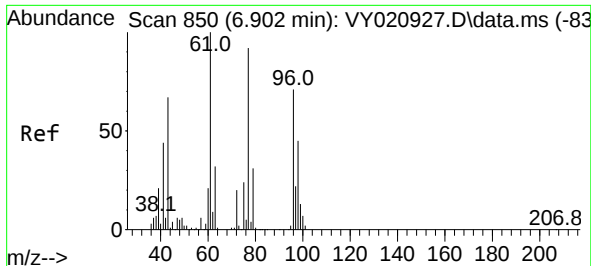
Tgt Ion: 43 Resp: 1193
Ion Ratio Lower Upper
43 100
58 33.3 25.6 38.4



#25
2-Butanone
Concen: 9.985 ug/l
RT: 6.890 min Scan# 848
Delta R.T. -0.018 min
Lab File: VY020969.D
Acq: 29 Jan 2025 17:05

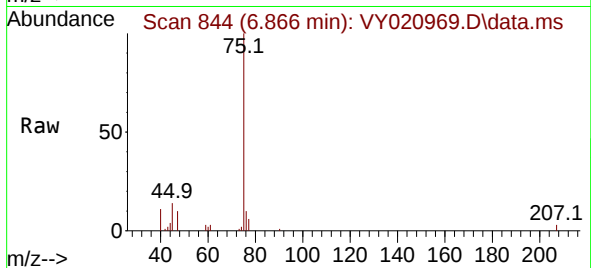
Tgt Ion: 43 Resp: 589
Ion Ratio Lower Upper
43 100
72 0.0 25.8 38.8#



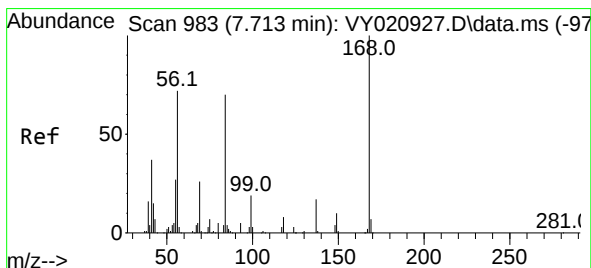
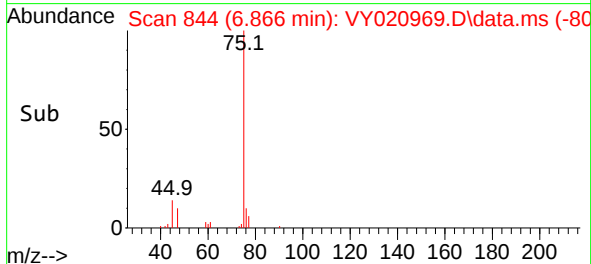
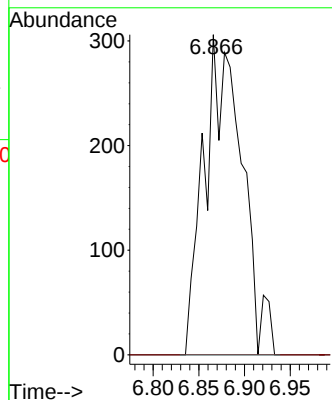


#26
2,2-Dichloropropane
Concen: 1.932 ug/l
RT: 6.866 min Scan# 844
Delta R.T. -0.036 min
Lab File: VY020969.D
Acq: 29 Jan 2025 17:05

Instrument :
MSVOA_Y
ClientSampleId :

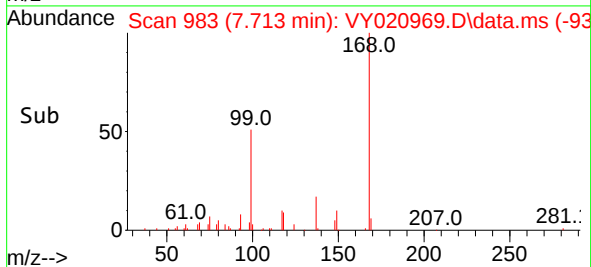
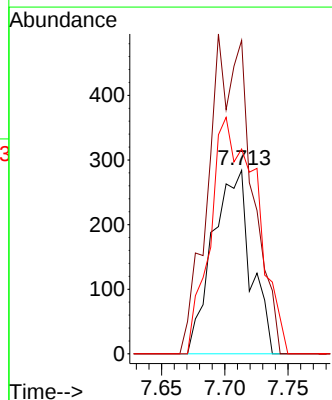
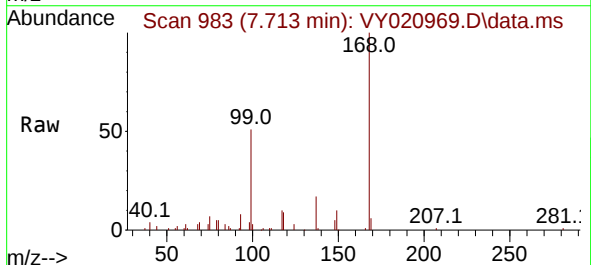


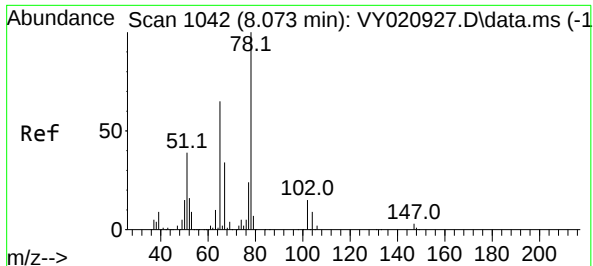
Tgt Ion: 77 Resp: 886
Ion Ratio Lower Upper
77 100
97 0.0 11.7 35.1#



#31
Cyclohexane
Concen: 1.298 ug/l
RT: 7.713 min Scan# 983
Delta R.T. 0.000 min
Lab File: VY020969.D
Acq: 29 Jan 2025 17:05

Tgt Ion: 56 Resp: 594
Ion Ratio Lower Upper
56 100
69 170.8 28.7 43.1#
84 111.6 77.4 116.0





#33

1,2-Dichloroethane-d4

Concen: 60.001 ug/l

RT: 8.061 min Scan# 110

Delta R.T. -0.012 min

Lab File: VY020969.D

Acq: 29 Jan 2025 17:05

Instrument :

MSVOA_Y

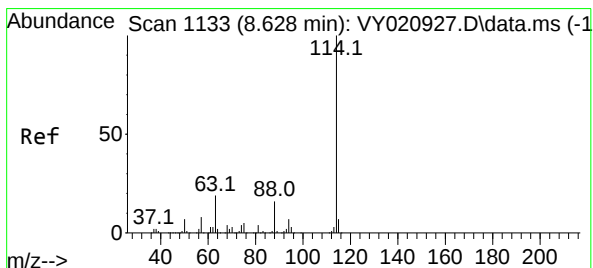
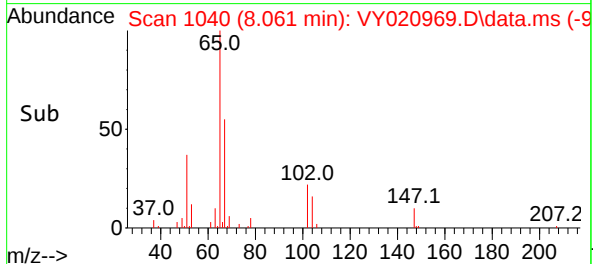
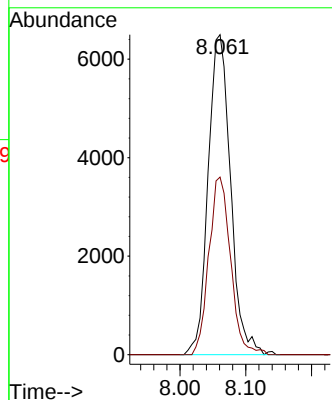
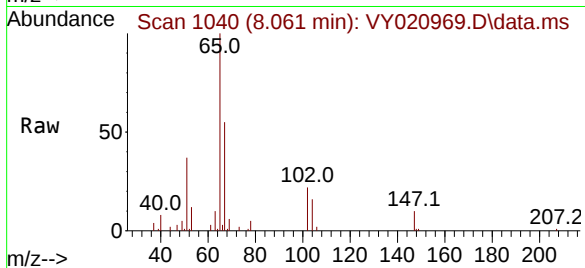
ClientSampleId :

Tgt Ion: 65 Resp: 15422

Ion Ratio Lower Upper

65 100

67 53.7 0.0 105.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. -0.012 min

Lab File: VY020969.D

Acq: 29 Jan 2025 17:05

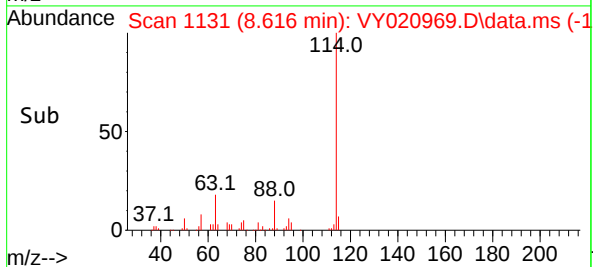
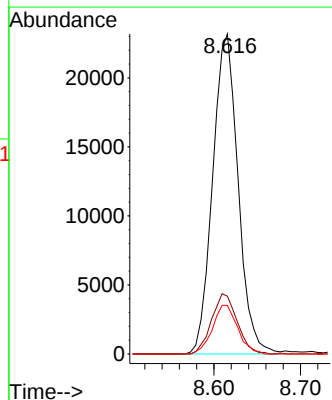
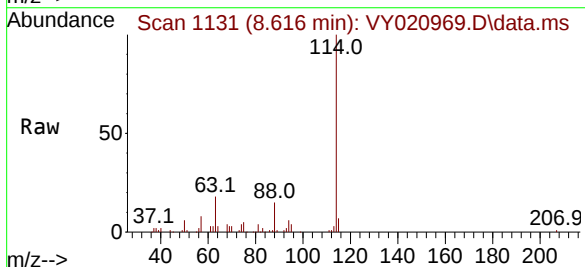
Tgt Ion: 114 Resp: 47221

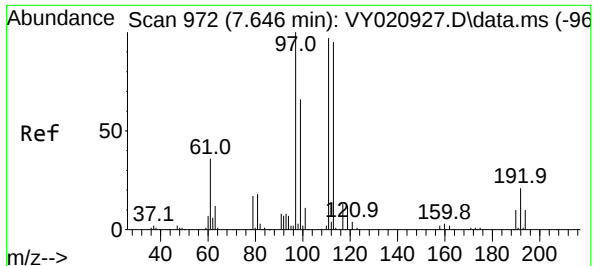
Ion Ratio Lower Upper

114 100

63 18.1 0.0 38.4

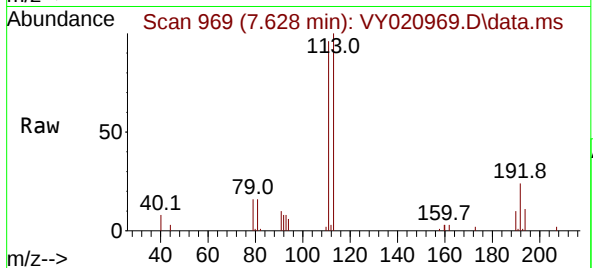
88 15.2 0.0 31.6



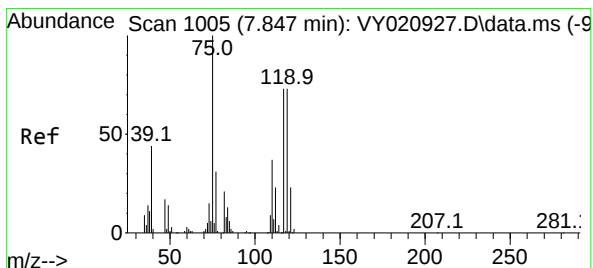
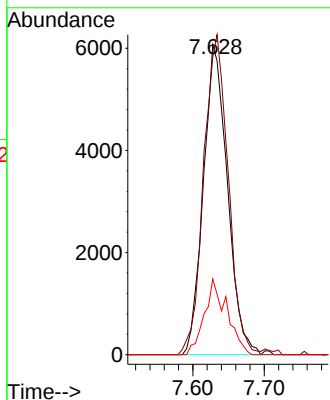
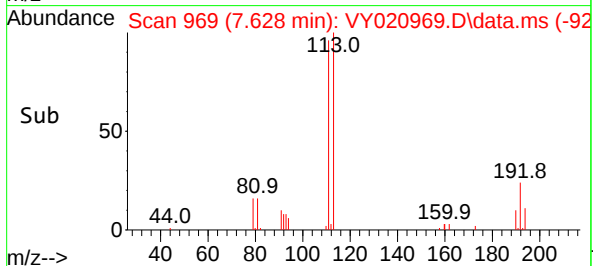


#35
Dibromofluoromethane
Concen: 52.562 ug/l
RT: 7.628 min Scan# 911
Delta R.T. -0.018 min
Lab File: VY020969.D
Acq: 29 Jan 2025 17:05

Instrument :
MSVOA_Y
ClientSampleId :

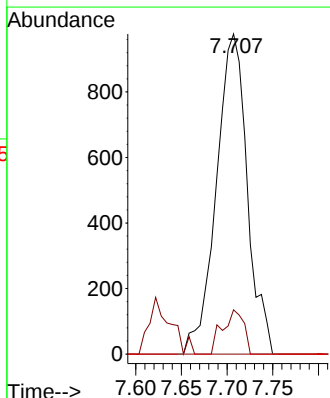
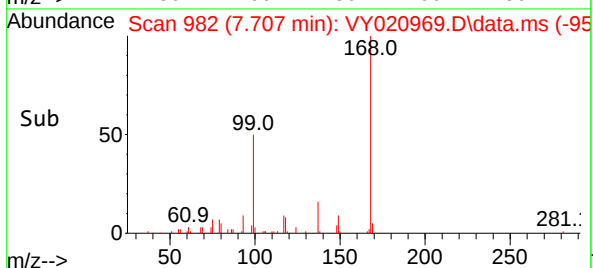
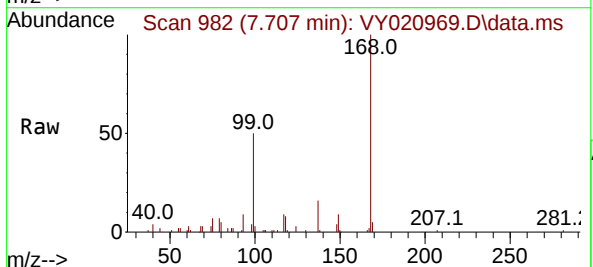


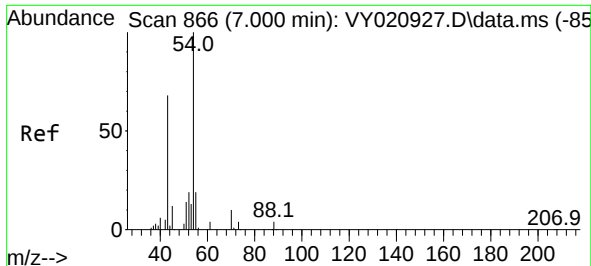
Tgt Ion:113 Resp: 14249
Ion Ratio Lower Upper
113 100
111 105.1 82.3 123.5
192 22.9 17.4 26.2



#36
1,1-Dichloropropene
Concen: 6.079 ug/l
RT: 7.707 min Scan# 982
Delta R.T. -0.140 min
Lab File: VY020969.D
Acq: 29 Jan 2025 17:05

Tgt Ion: 75 Resp: 2301
Ion Ratio Lower Upper
75 100
110 9.4 18.5 55.5#
77 0.0 25.0 37.4#





#37

Ethyl Acetate

Concen: 4.011 ug/l

RT: 6.890 min Scan# 84

Delta R.T. -0.110 min

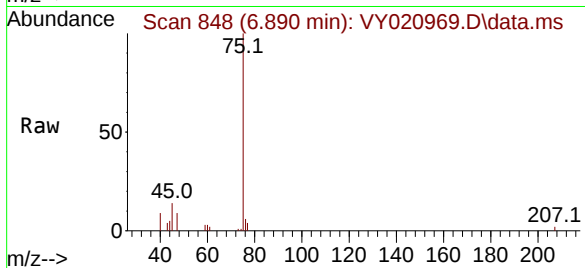
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Acq: 29 Jan 2025 17:05

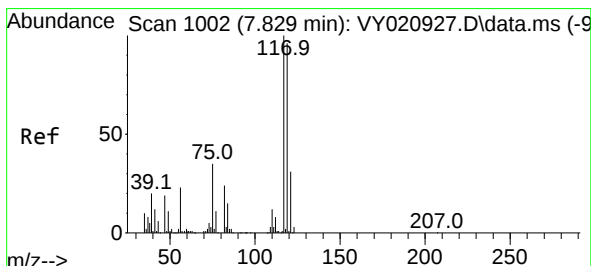
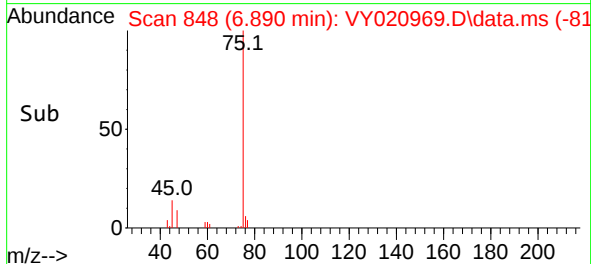
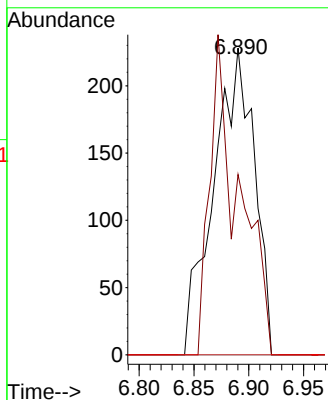
Instrument :

MSVOA_Y

ClientSampleId :



Tgt Ion:	43	Resp:	589
Ion	Ratio	Lower	Upper
43	100		
61	74.9	12.1	18.1#
70	0.0	9.5	14.3#



#38

Carbon Tetrachloride

Concen: 6.774 ug/l

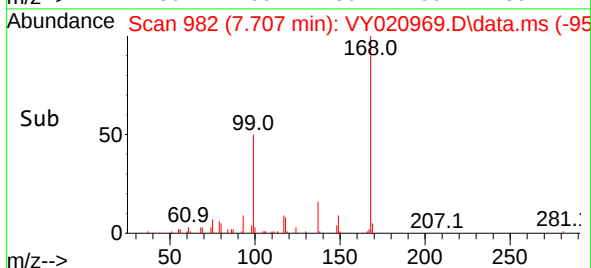
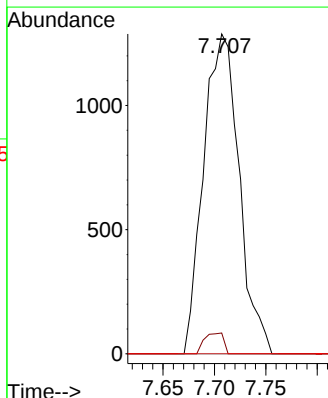
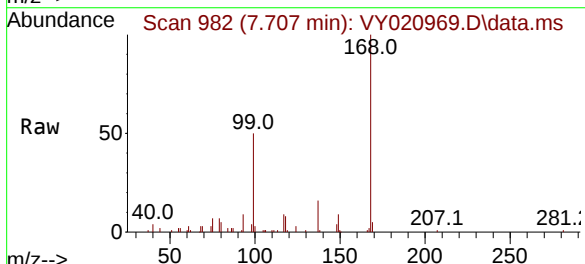
RT: 7.707 min Scan# 982

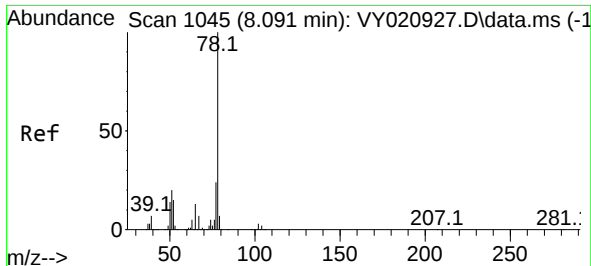
Delta R.T. -0.122 min

Lab File: VY020969.D

Acq: 29 Jan 2025 17:05

Tgt Ion:	117	Resp:	3092
Ion	Ratio	Lower	Upper
117	100		
119	6.5	76.5	114.7#
121	0.0	25.0	37.4#

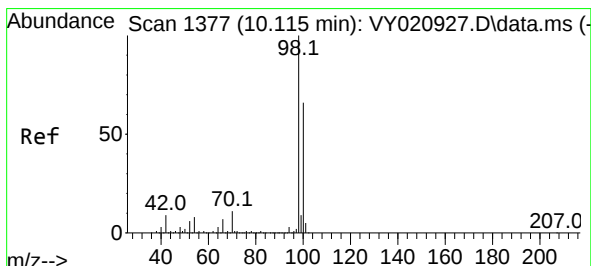
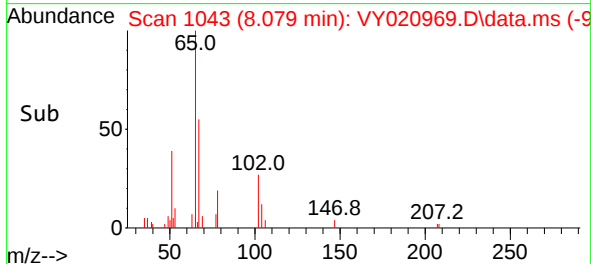
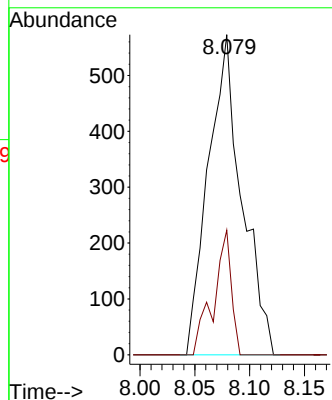
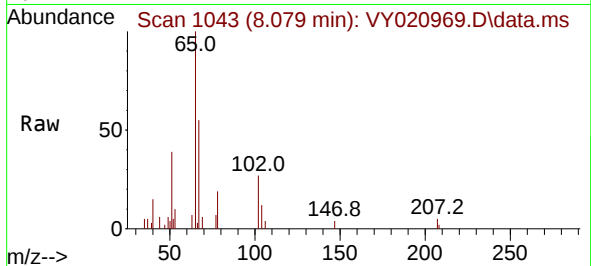




#40
Benzene
Concen: 1.097 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. -0.012 min
Lab File: VY020969.D
Acq: 29 Jan 2025 17:05

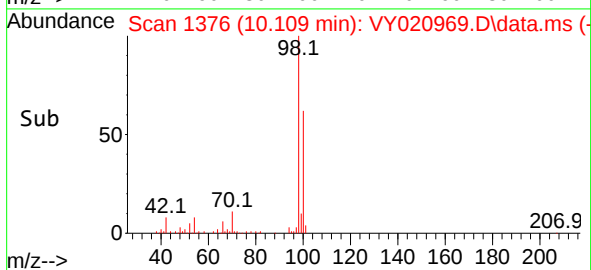
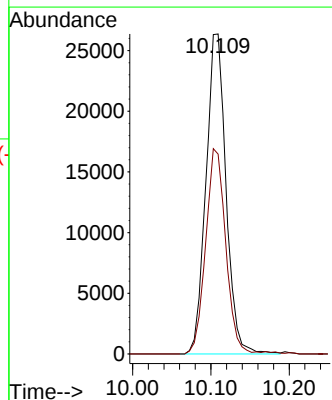
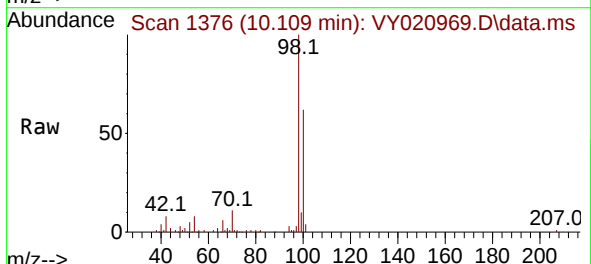
Instrument :
MSVOA_Y
ClientSampleId :

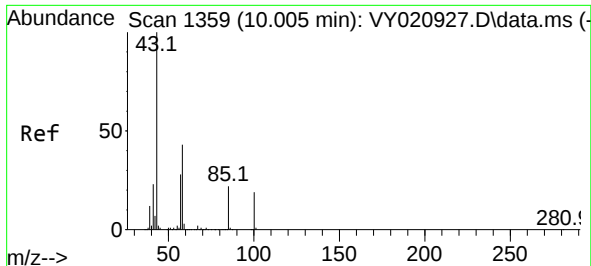
Tgt Ion: 78 Resp: 1218
Ion Ratio Lower Upper
78 100
77 38.9 19.0 28.6#



#50
Toluene-d8
Concen: 44.671 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. -0.006 min
Lab File: VY020969.D
Acq: 29 Jan 2025 17:05

Tgt Ion: 98 Resp: 46972
Ion Ratio Lower Upper
98 100
100 64.1 52.3 78.5

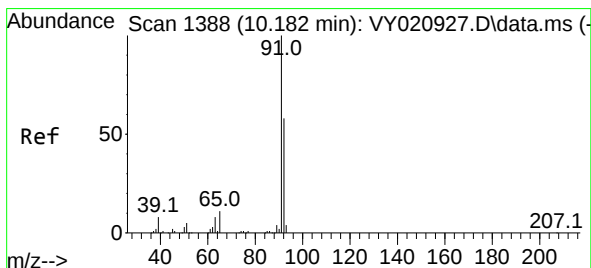
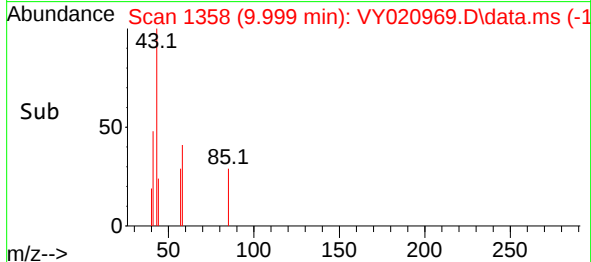
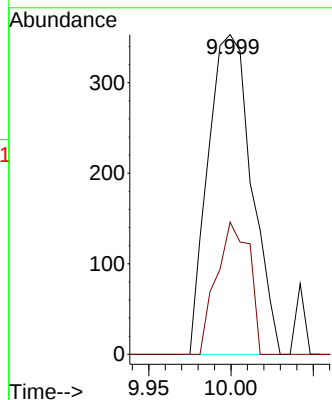
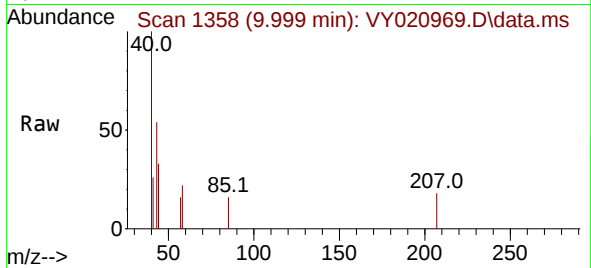




#51
4-Methyl-2-Pentanone
Concen: 4.637 ug/l
RT: 9.999 min Scan# 1358
Delta R.T. -0.006 min
Lab File: VY020969.D
Acq: 29 Jan 2025 17:05

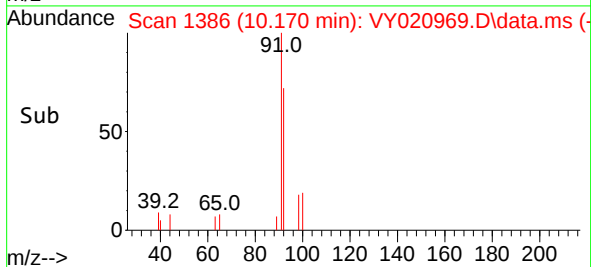
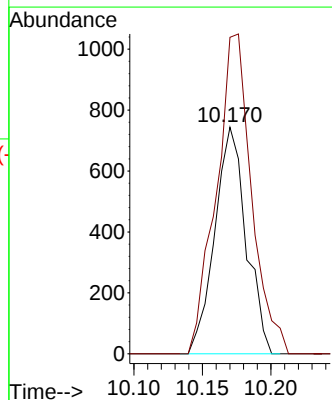
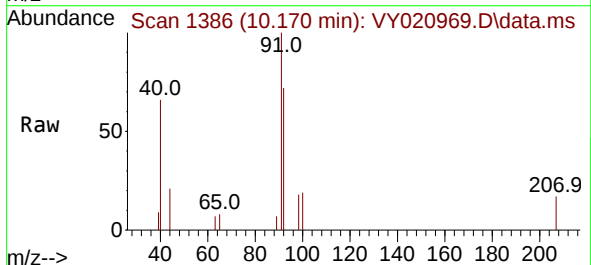
Instrument :
MSVOA_Y
ClientSampleId :

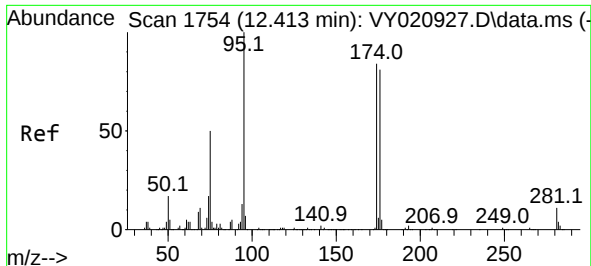
Tgt Ion: 43 Resp: 651
Ion Ratio Lower Upper
43 100
58 31.2 33.7 50.5#



#52
Toluene
Concen: 1.661 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.012 min
Lab File: VY020969.D
Acq: 29 Jan 2025 17:05

Tgt Ion: 92 Resp: 1186
Ion Ratio Lower Upper
92 100
91 158.4 137.3 205.9

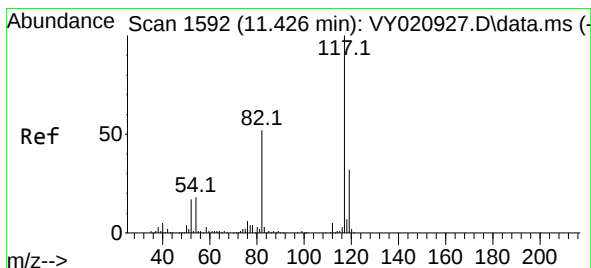
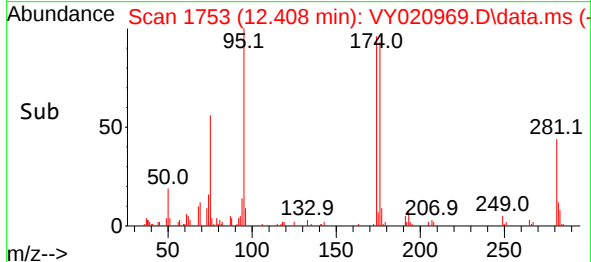
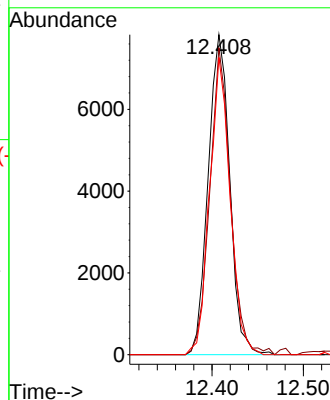
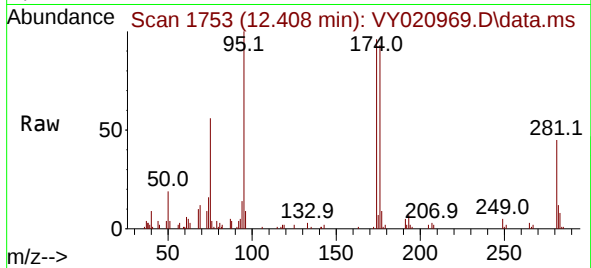




#62
4-Bromofluorobenzene
Concen: 36.606 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.006 min
Lab File: VY020969.D
Acq: 29 Jan 2025 17:05

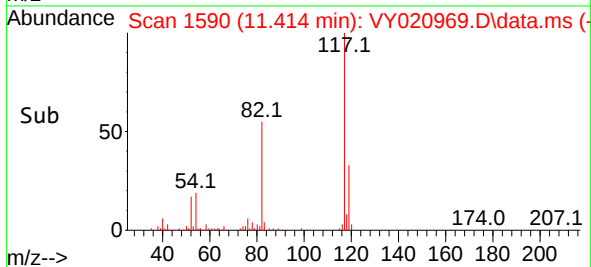
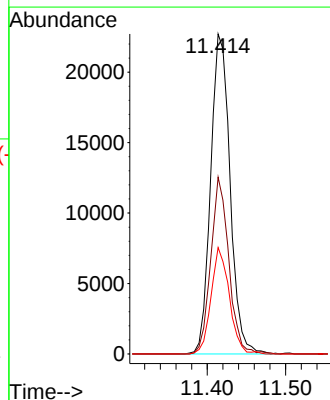
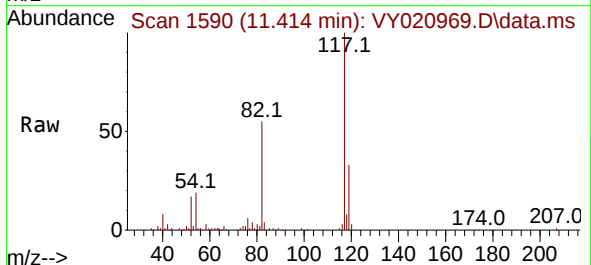
Instrument :
MSVOA_Y
ClientSampleId :

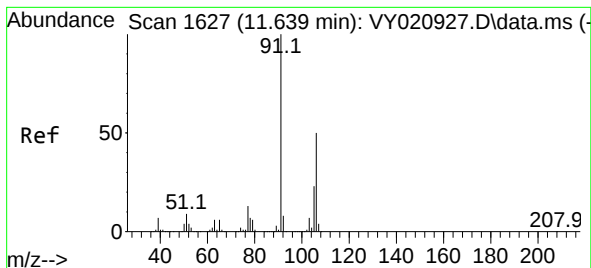
Tgt Ion: 95 Resp: 12810
Ion Ratio Lower Upper
95 100
174 91.8 0.0 177.4
176 88.5 0.0 172.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.012 min
Lab File: VY020969.D
Acq: 29 Jan 2025 17:05

Tgt Ion: 117 Resp: 39049
Ion Ratio Lower Upper
117 100
82 55.2 41.8 62.8
119 33.2 26.0 39.0





#68

m/p-Xylenes

Concen: 1.247 ug/l

RT: 11.633 min Scan# 1

Delta R.T. -0.006 min

Lab File: VY020969.D

Acq: 29 Jan 2025 17:05

Instrument :

MSVOA_Y

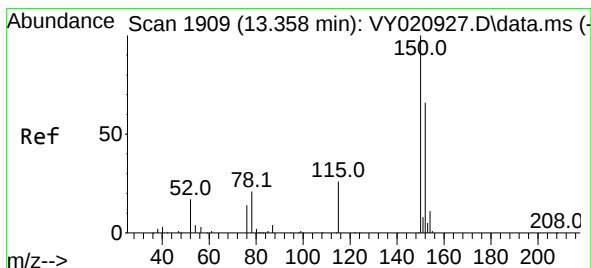
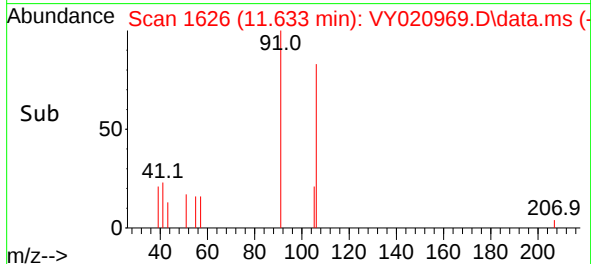
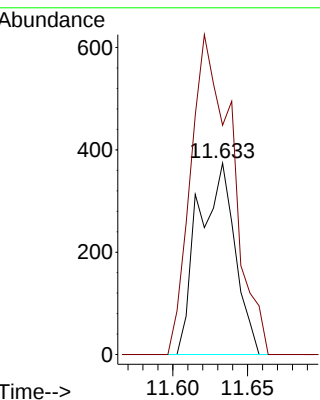
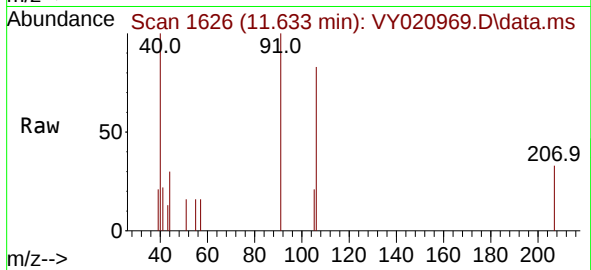
ClientSampleId :

Tgt Ion:106 Resp: 636

Ion Ratio Lower Upper

106 100

91 189.5 159.5 239.3



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.352 min Scan# 1908

Delta R.T. -0.006 min

Lab File: VY020969.D

Acq: 29 Jan 2025 17:05

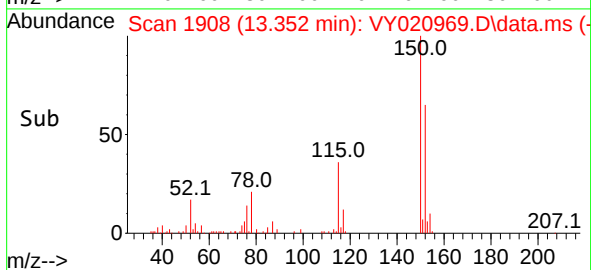
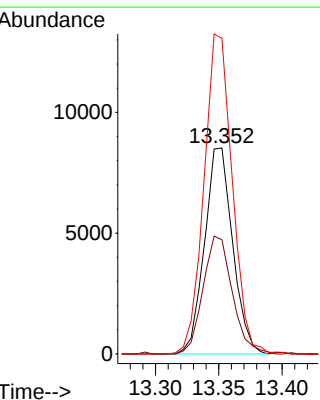
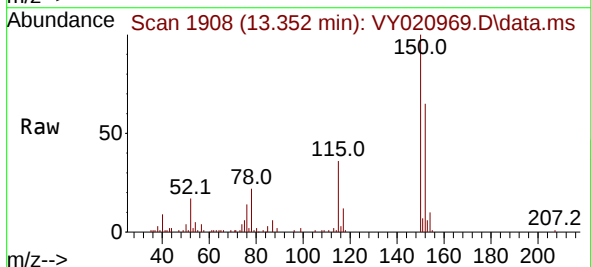
Tgt Ion:152 Resp: 13186

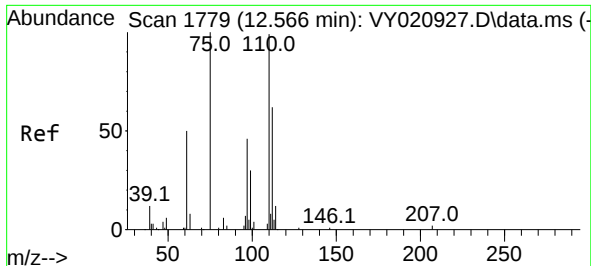
Ion Ratio Lower Upper

152 100

115 59.3 29.0 87.0

150 156.1 0.0 347.6

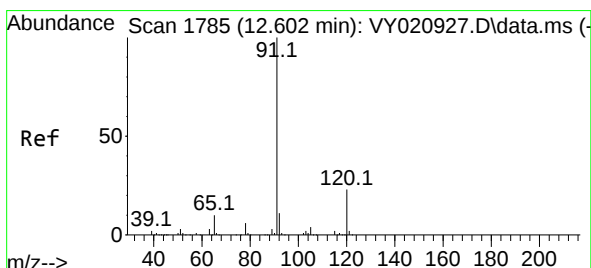
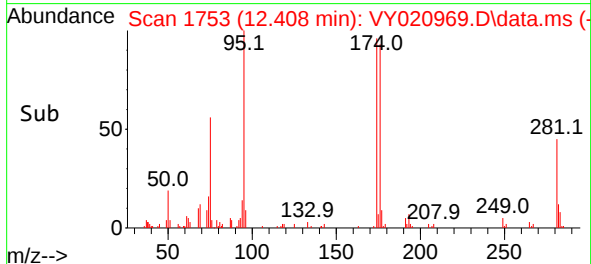
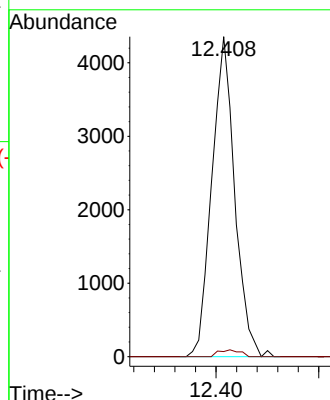
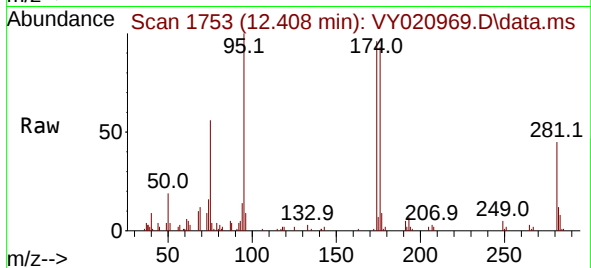




#76
1,2,3-Trichloropropane
Concen: 72.187 ug/l
RT: 12.408 min Scan# 1779
Delta R.T. -0.158 min
Lab File: VY020969.D
Acq: 29 Jan 2025 17:05

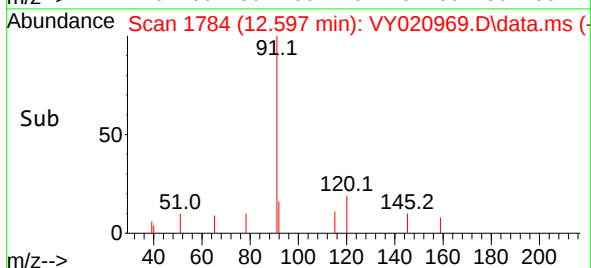
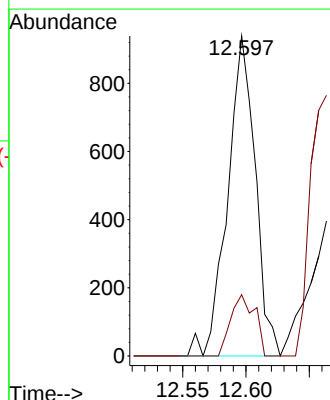
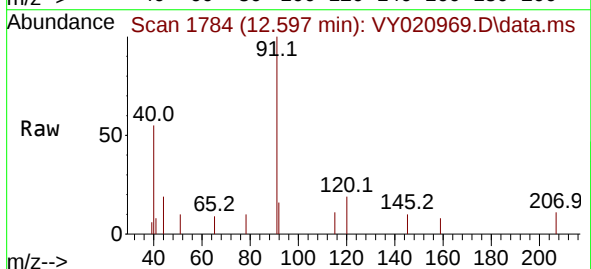
Instrument :
MSVOA_Y
ClientSampleId :

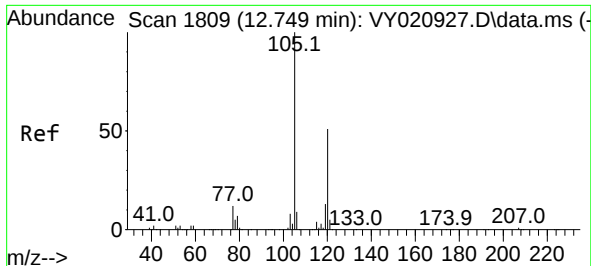
Tgt Ion: 75 Resp: 6730
Ion Ratio Lower Upper
75 100
77 2.0 0.0 0.0#



#78
n-propylbenzene
Concen: 1.352 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. -0.006 min
Lab File: VY020969.D
Acq: 29 Jan 2025 17:05

Tgt Ion: 91 Resp: 1430
Ion Ratio Lower Upper
91 100
120 16.7 11.8 35.4

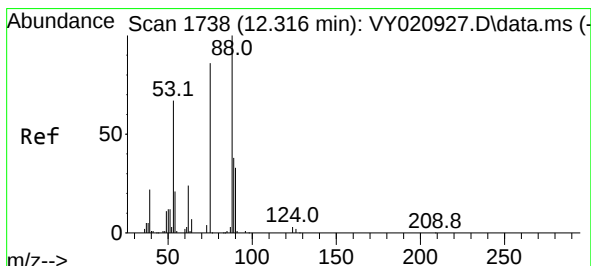
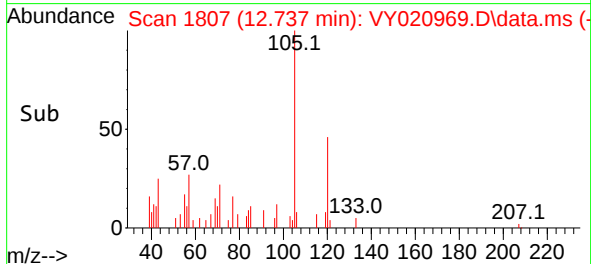
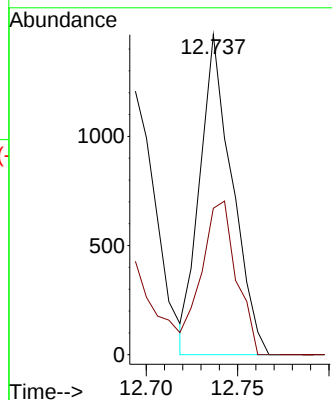
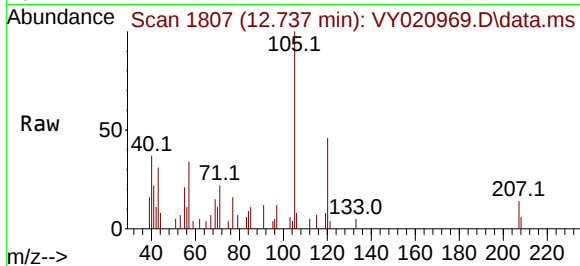




#80
 1,3,5-Trimethylbenzene
 Concen: 2.472 ug/l
 RT: 12.737 min Scan# 11
 Delta R.T. -0.012 min
 Lab File: VY020969.D
 Acq: 29 Jan 2025 17:05

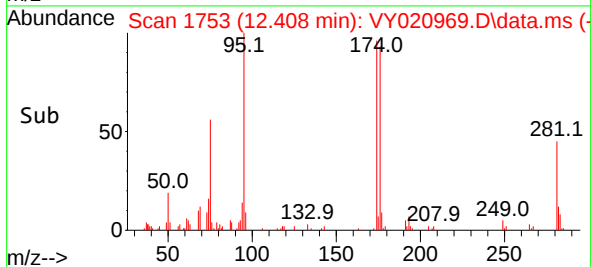
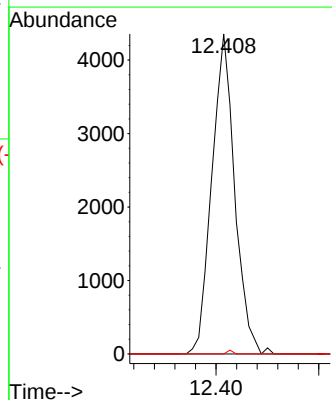
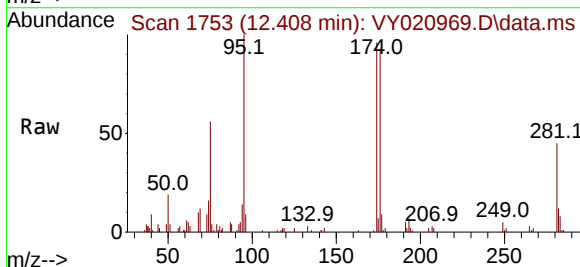
Instrument :
 MSVOA_Y
 ClientSampleId :

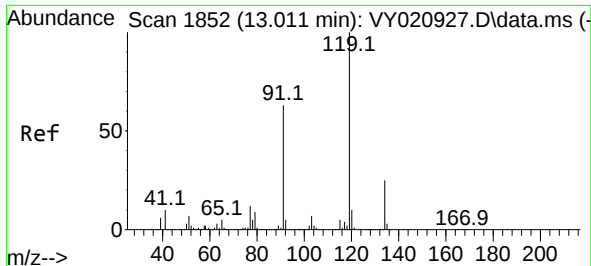
Tgt Ion:105 Resp: 1804
 Ion Ratio Lower Upper
 105 100
 120 51.8 24.9 74.6



#81
 trans-1,4-Dichloro-2-butene
 Concen: 139.465 ug/l
 RT: 12.408 min Scan# 1753
 Delta R.T. 0.092 min
 Lab File: VY020969.D
 Acq: 29 Jan 2025 17:05

Tgt Ion: 75 Resp: 6730
 Ion Ratio Lower Upper
 75 100
 53 0.0 67.7 101.5#
 89 0.3 38.4 57.6#

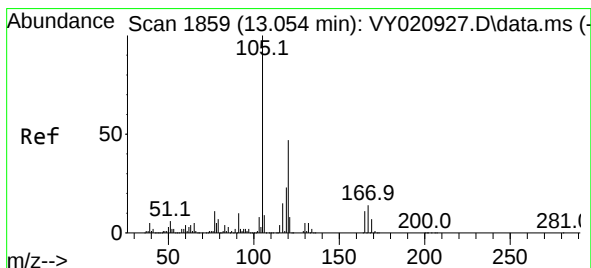
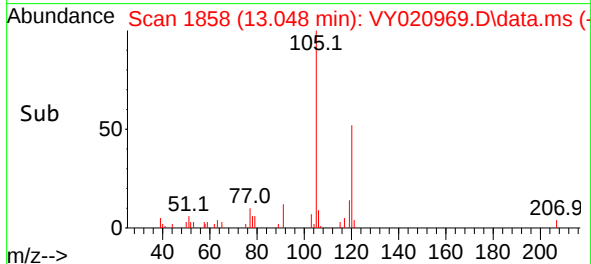
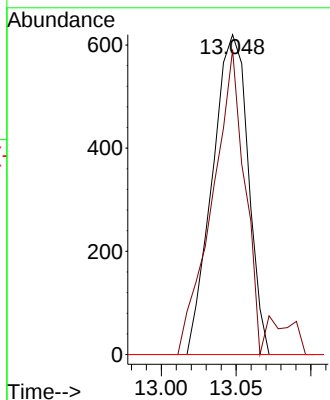
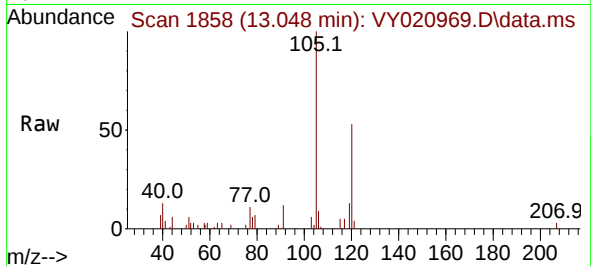




#83
tert-Butylbenzene
Concen: 1.535 ug/l
RT: 13.048 min Scan# 1858
Delta R.T. 0.037 min
Lab File: VY020969.D
Acq: 29 Jan 2025 17:05

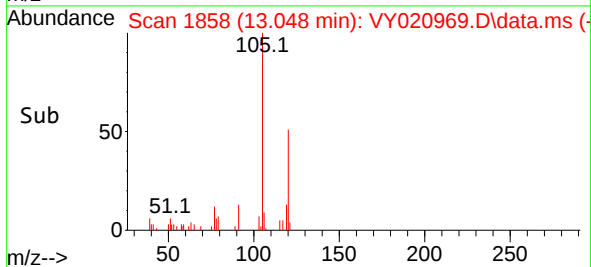
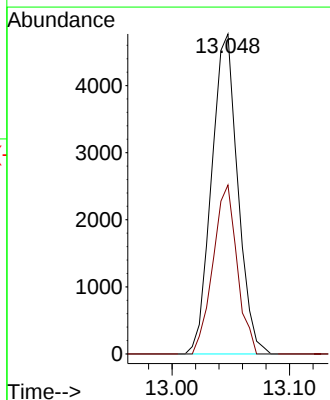
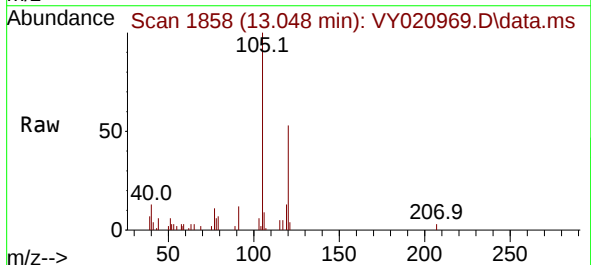
Instrument :
MSVOA_Y
ClientSampleId :

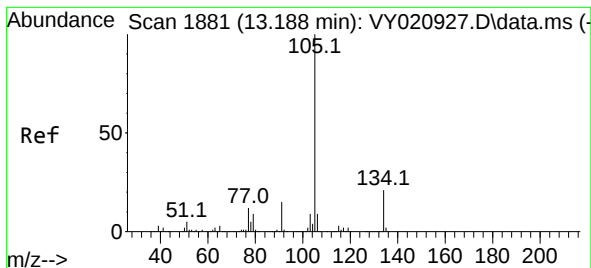
Tgt Ion:119 Resp: 1033
Ion Ratio Lower Upper
119 100
91 90.2 30.9 92.8
134 0.0 13.1 39.3#



#84
1,2,4-Trimethylbenzene
Concen: 10.294 ug/l
RT: 13.048 min Scan# 1858
Delta R.T. -0.006 min
Lab File: VY020969.D
Acq: 29 Jan 2025 17:05

Tgt Ion:105 Resp: 7395
Ion Ratio Lower Upper
105 100
120 48.5 22.9 68.7





#85

sec-Butylbenzene

Concen: 1.412 ug/l

RT: 13.176 min Scan# 1881

Delta R.T. -0.012 min

Lab File: VY020969.D

Acq: 29 Jan 2025 17:05

Instrument :

MSVOA_Y

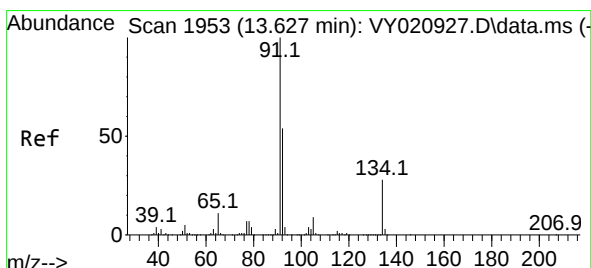
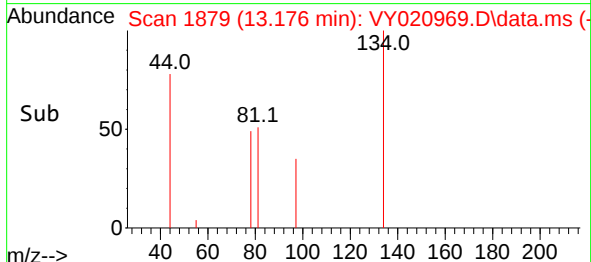
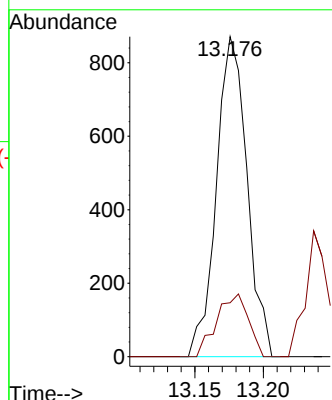
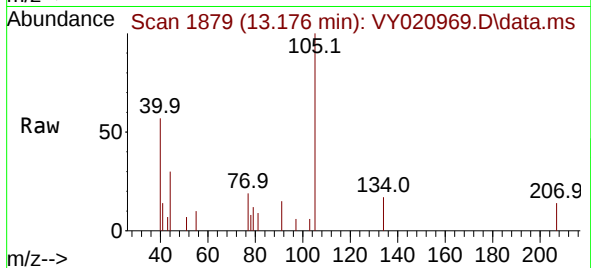
ClientSampleId :

Tgt Ion:105 Resp: 1355

Ion Ratio Lower Upper

105 100

134 20.2 10.4 31.4



#89

n-Butylbenzene

Concen: 1.695 ug/l

RT: 13.621 min Scan# 1952

Delta R.T. -0.006 min

Lab File: VY020969.D

Acq: 29 Jan 2025 17:05

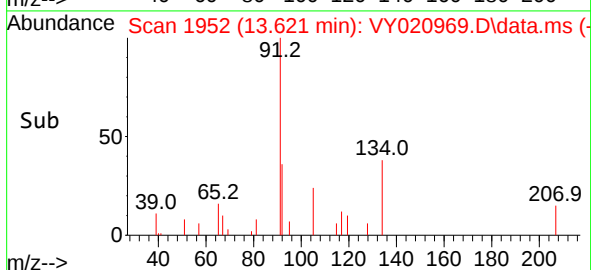
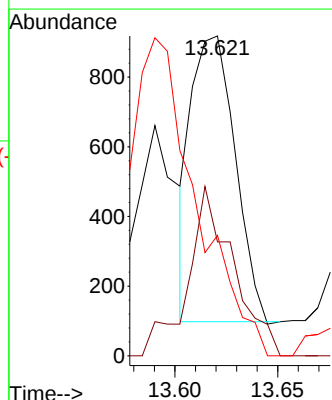
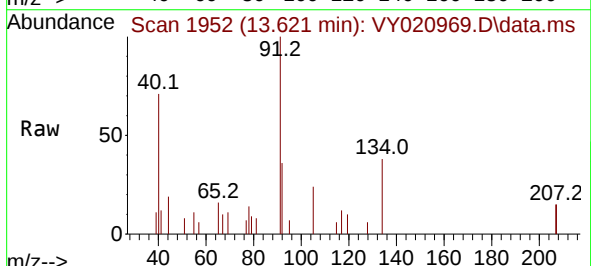
Tgt Ion: 91 Resp: 1212

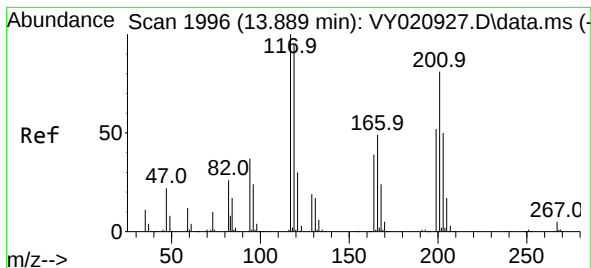
Ion Ratio Lower Upper

91 100

92 61.6 26.8 80.3

134 0.0 13.8 41.4#





#90

Hexachloroethane

Concen: 3.887 ug/l

RT: 13.895 min Scan# 1996

Delta R.T. 0.006 min

Lab File: VY020969.D

Acq: 29 Jan 2025 17:05

Instrument :

MSVOA_Y

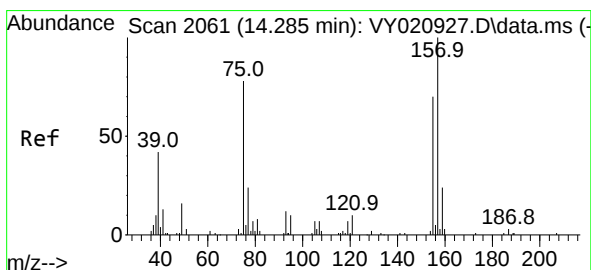
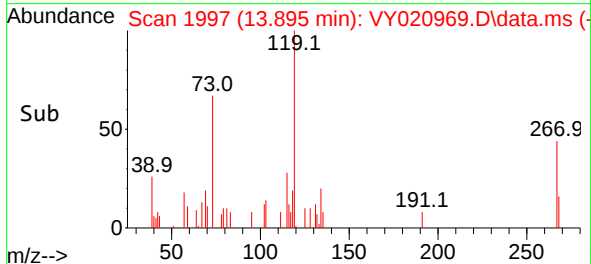
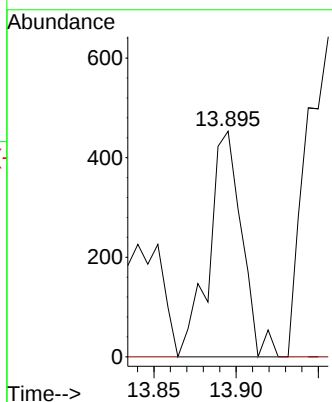
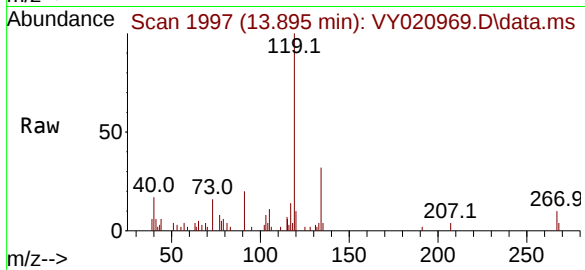
ClientSampleId :

Tgt Ion:117 Resp: 626

Ion Ratio Lower Upper

117 100

201 0.0 42.7 128.1#



#92

1,2-Dibromo-3-Chloropropane

Concen: 2.450 ug/l

RT: 14.011 min Scan# 2016

Delta R.T. -0.274 min

Lab File: VY020969.D

Acq: 29 Jan 2025 17:05

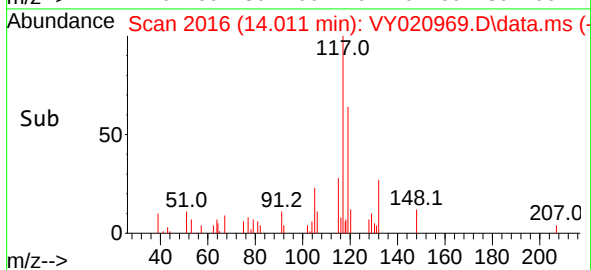
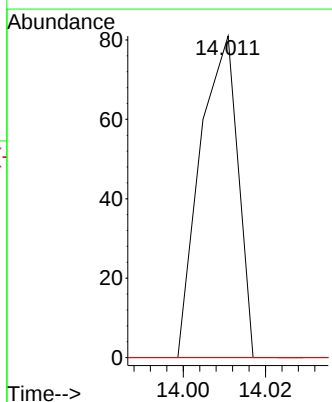
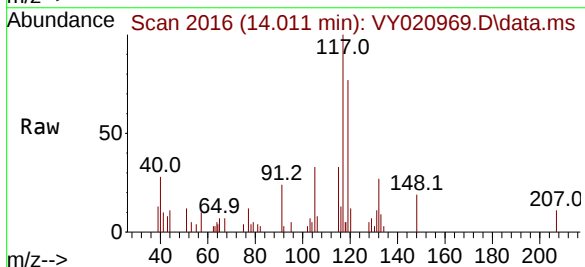
Tgt Ion: 75 Resp: 52

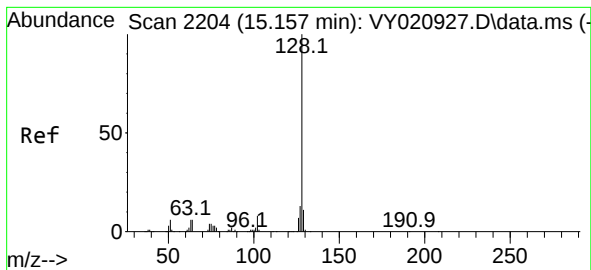
Ion Ratio Lower Upper

75 100

155 0.0 46.6 139.7#

157 0.0 60.1 180.3#





#95

Naphthalene

Concen: 2.897 ug/l

RT: 15.139 min Scan# 21

Delta R.T. -0.018 min

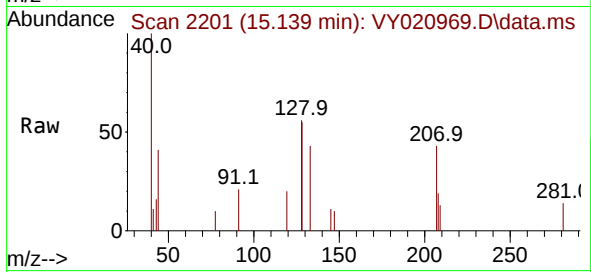
Lab File: VY020969.D

Acq: 29 Jan 2025 17:05

Instrument :

MSVOA_Y

ClientSampleId :



Tgt Ion:128 Resp: 987

Ion Ratio Lower Upper

128 100

127 4.3 10.3 15.5#

129 9.0 8.8 13.2

