

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121525\
 Data File : VY023975.D
 Acq On : 15 Dec 2025 14:37
 Operator : SY/MD
 Sample : Q3872-02
 Misc : 5.09g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 ARS20-0006

Quant Time: Dec 16 02:15:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121025S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 11 03:57:51 2025
 Response via : Initial Calibration

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

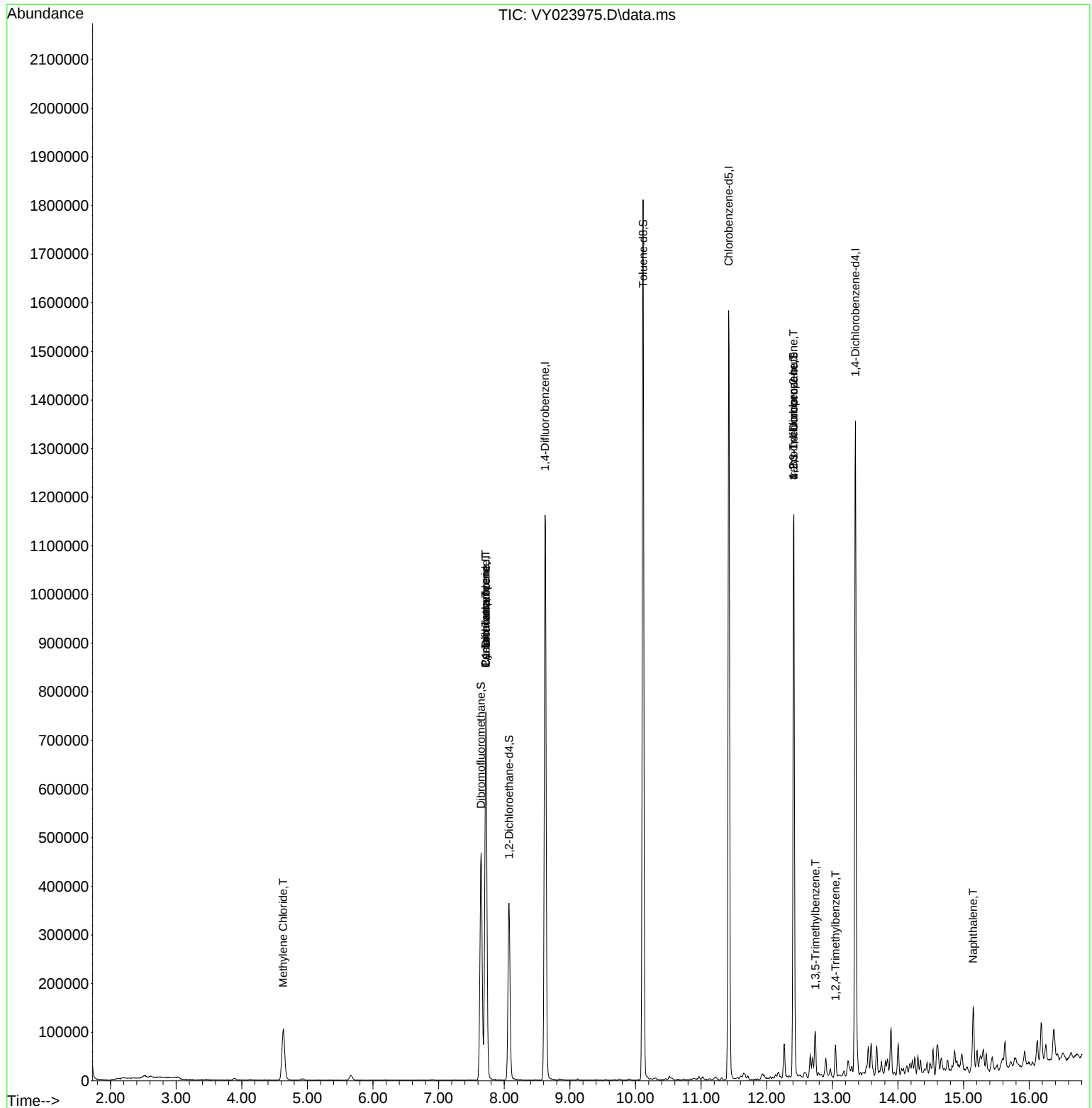
Internal Standards						
1) Pentafluorobenzene	7.719	168	629391	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.622	114	1066179	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	898459	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	366577	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.073	65	281186	50.530	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	101.060%
35) Dibromofluoromethane	7.646	113	334759	48.032	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	96.060%
50) Toluene-d8	10.115	98	1201376	46.299	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	92.600%
62) 4-Bromofluorobenzene	12.407	95	351479	40.560	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	81.120%
Target Compounds						
					Qvalue	
10) Methyl Iodide	4.037	142	408	Below Cal	#	56
16) Acetone	3.891	43	5663	Below Cal		92
20) Methylene Chloride	4.628	84	83599	12.770	ug/l	92
31) Cyclohexane	7.719	56	10033	1.051	ug/l #	1
36) 1,1-Dichloropropene	7.719	75	41703	4.395	ug/l #	48
38) Carbon Tetrachloride	7.719	117	56370	4.901	ug/l #	16
76) 1,2,3-Trichloropropane	12.407	75	171338	55.255	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.743	105	31135	1.457	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.407	75	171338	125.774	ug/l #	12
84) 1,2,4-Trimethylbenzene	13.048	105	34164	1.614	ug/l	99
95) Naphthalene	15.145	128	107163	10.543	ug/l	98

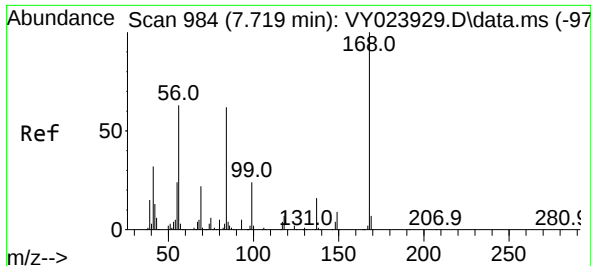
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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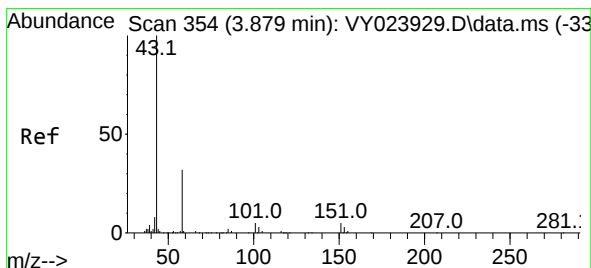
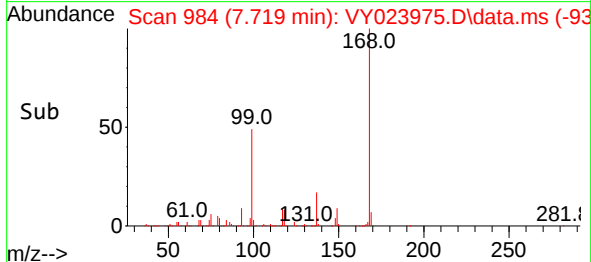
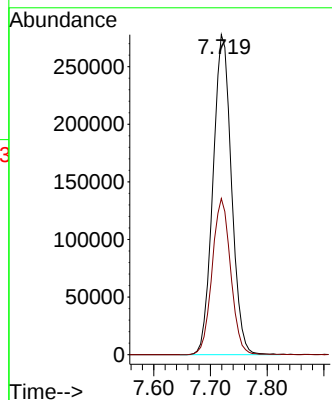
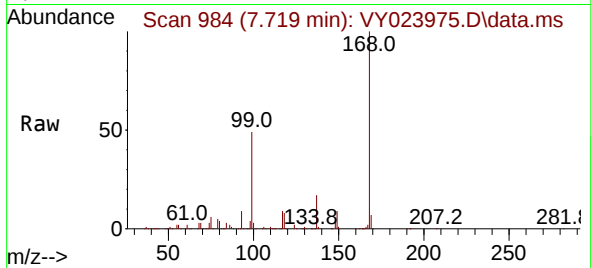




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.719 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY023975.D
Acq: 15 Dec 2025 14:37

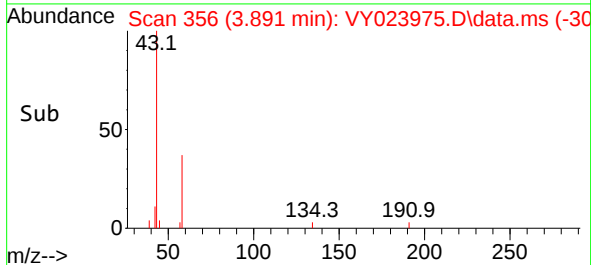
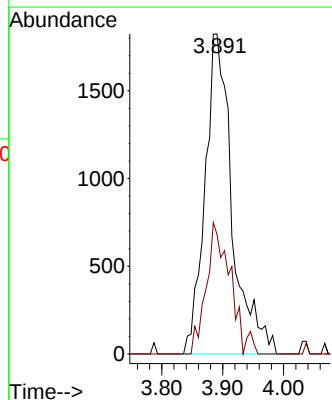
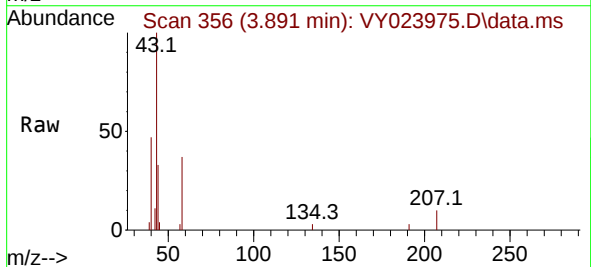
Instrument :
MSVOA_Y
ClientSampleId :
ARS20-0006

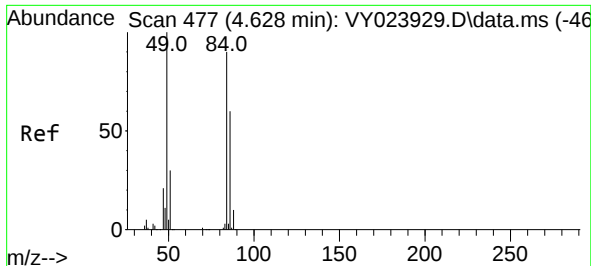
Tgt Ion:168 Resp: 629391
Ion Ratio Lower Upper
168 100
99 48.8 38.9 58.3



#16
Acetone
Concen: Below Cal
RT: 3.891 min Scan# 356
Delta R.T. 0.012 min
Lab File: VY023975.D
Acq: 15 Dec 2025 14:37

Tgt Ion: 43 Resp: 5663
Ion Ratio Lower Upper
43 100
58 37.3 26.4 39.6

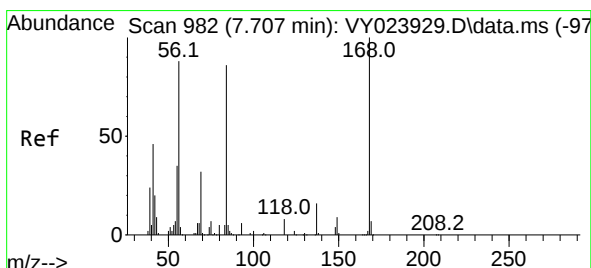
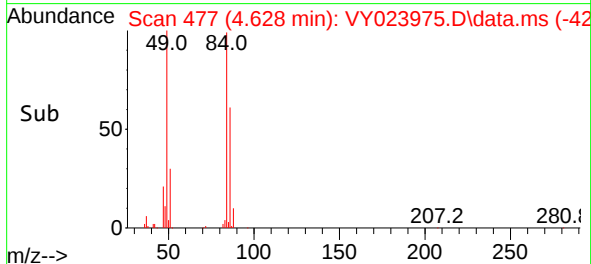
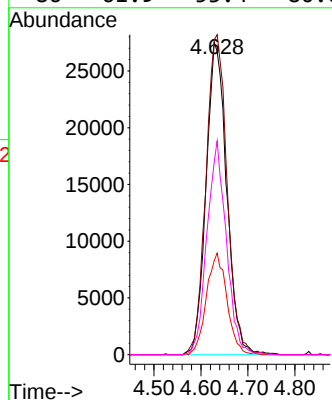
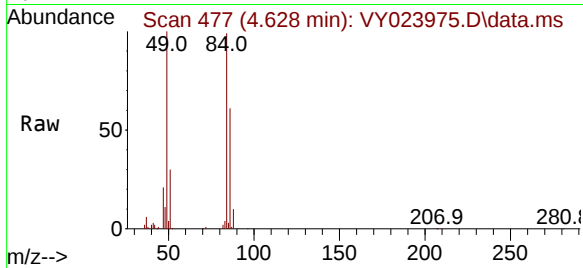




#20
Methylene Chloride
Concen: 12.770 ug/l
RT: 4.628 min Scan# 41
Delta R.T. -0.000 min
Lab File: VY023975.D
Acq: 15 Dec 2025 14:37

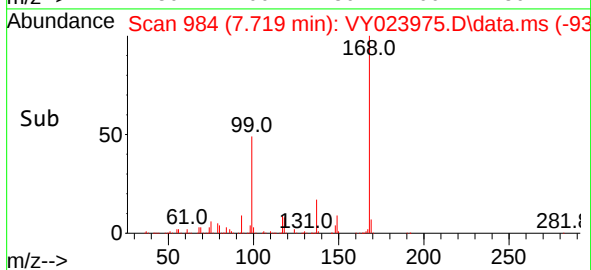
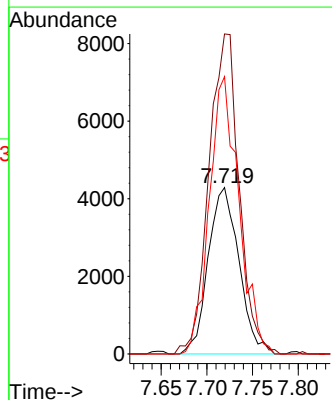
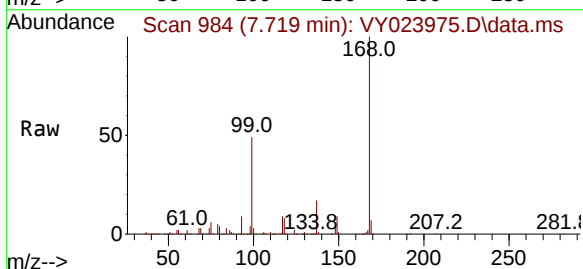
Instrument :
MSVOA_Y
ClientSampleId :
ARS20-0006

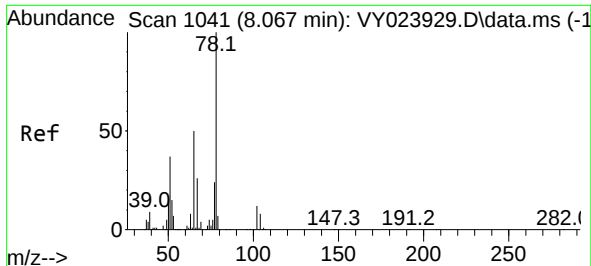
Tgt Ion:	84	Resp:	83599
Ion	Ratio	Lower	Upper
84	100		
49	100.9	89.1	133.7
51	30.2	26.6	39.8
86	61.9	53.4	80.0



#31
Cyclohexane
Concen: 1.051 ug/l
RT: 7.719 min Scan# 984
Delta R.T. 0.012 min
Lab File: VY023975.D
Acq: 15 Dec 2025 14:37

Tgt Ion:	56	Resp:	10033
Ion	Ratio	Lower	Upper
56	100		
69	192.3	29.1	43.7#
84	166.6	77.8	116.8#





#33

1,2-Dichloroethane-d4

Concen: 50.530 ug/l

RT: 8.073 min Scan# 1104

Delta R.T. 0.006 min

Lab File: VY023975.D

Acq: 15 Dec 2025 14:37

Instrument :

MSVOA_Y

ClientSampleId :

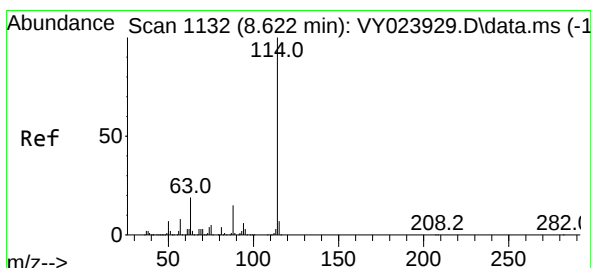
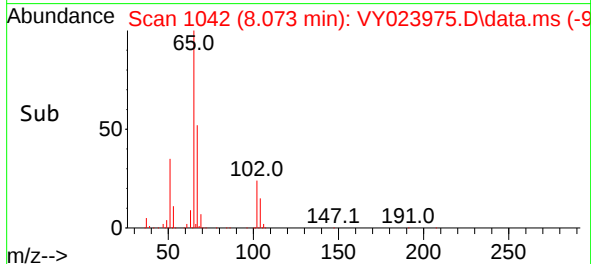
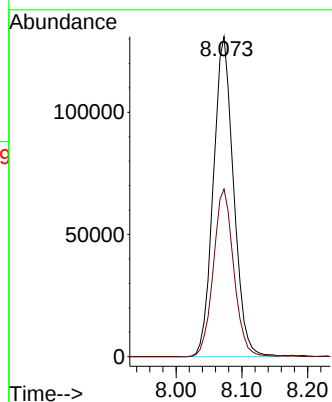
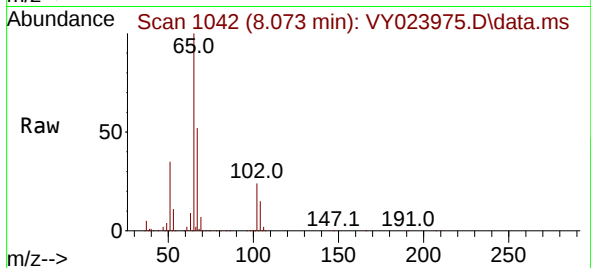
ARS20-0006

Tgt Ion: 65 Resp: 281186

Ion Ratio Lower Upper

65 100

67 52.8 0.0 106.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.622 min Scan# 1132

Delta R.T. -0.000 min

Lab File: VY023975.D

Acq: 15 Dec 2025 14:37

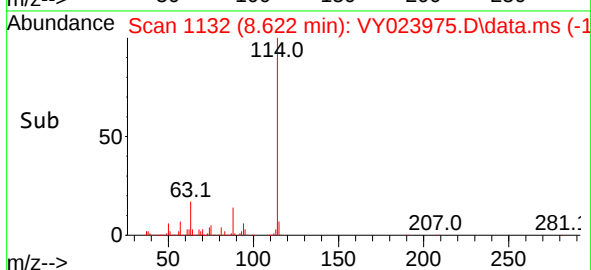
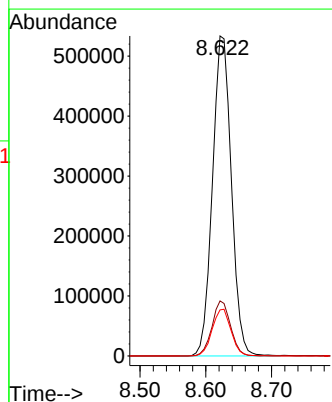
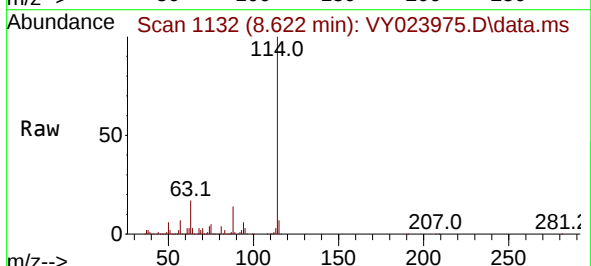
Tgt Ion: 114 Resp: 1066179

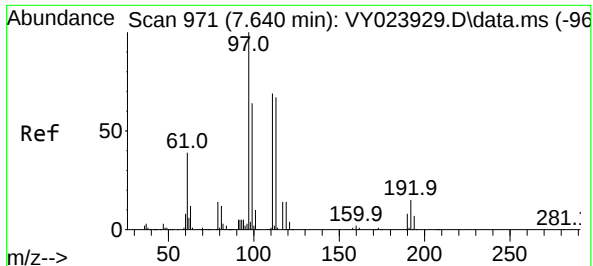
Ion Ratio Lower Upper

114 100

63 17.2 0.0 37.2

88 14.4 0.0 29.4

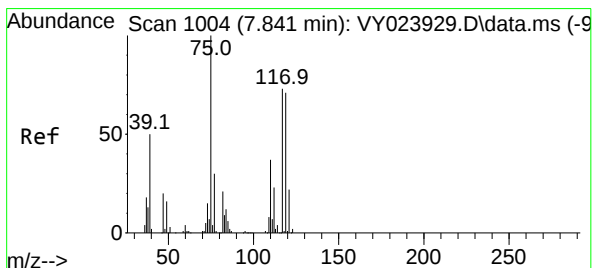
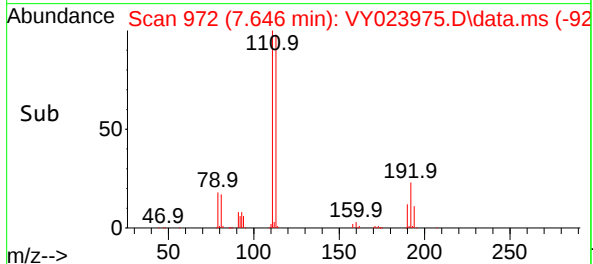
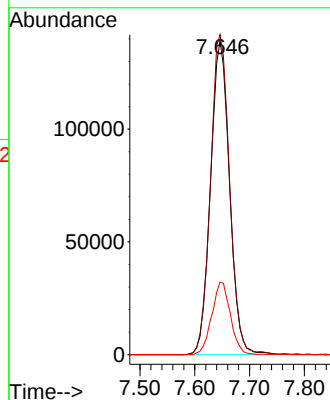
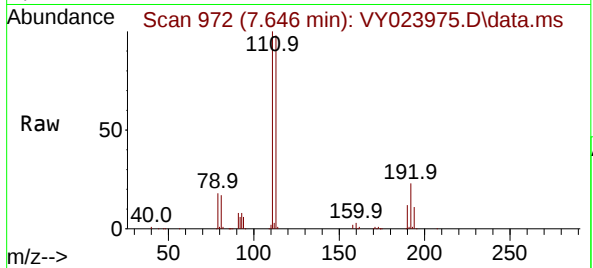




#35
Dibromofluoromethane
Concen: 48.032 ug/l
RT: 7.646 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023975.D
Acq: 15 Dec 2025 14:37

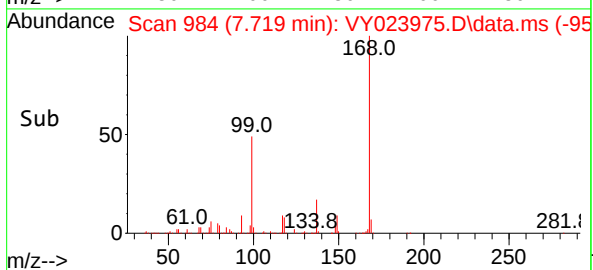
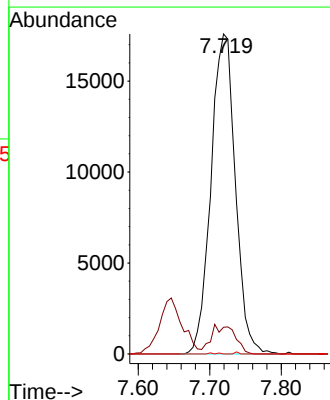
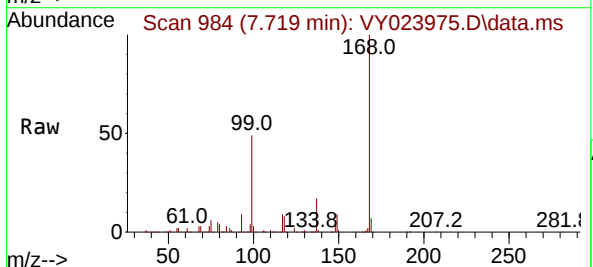
Instrument :
MSVOA_Y
ClientSampleId :
ARS20-0006

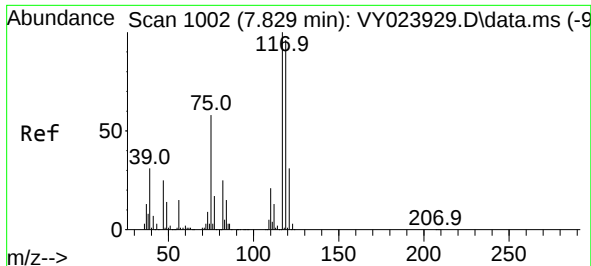
Tgt Ion:113 Resp: 334759
Ion Ratio Lower Upper
113 100
111 102.6 82.4 123.6
192 22.7 17.9 26.9



#36
1,1-Dichloropropene
Concen: 4.395 ug/l
RT: 7.719 min Scan# 984
Delta R.T. -0.122 min
Lab File: VY023975.D
Acq: 15 Dec 2025 14:37

Tgt Ion: 75 Resp: 41703
Ion Ratio Lower Upper
75 100
110 8.7 19.2 57.6#
77 0.1 24.4 36.6#

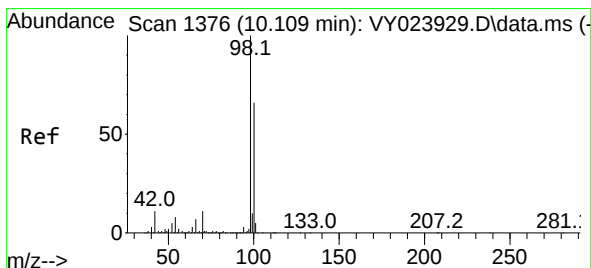
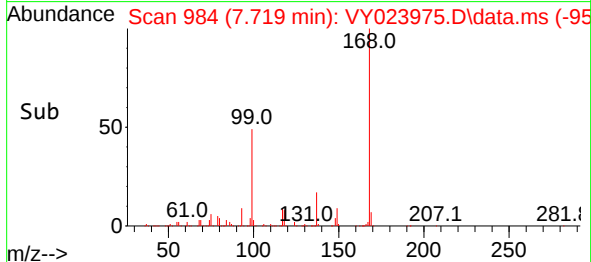
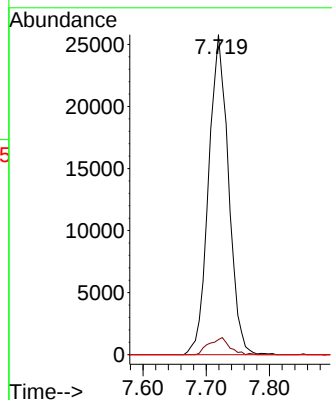
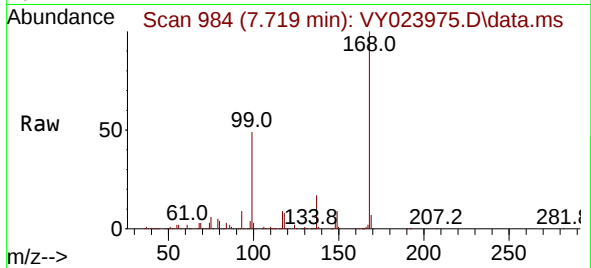




#38
Carbon Tetrachloride
Concen: 4.901 ug/l
RT: 7.719 min Scan# 91
Delta R.T. -0.110 min
Lab File: VY023975.D
Acq: 15 Dec 2025 14:37

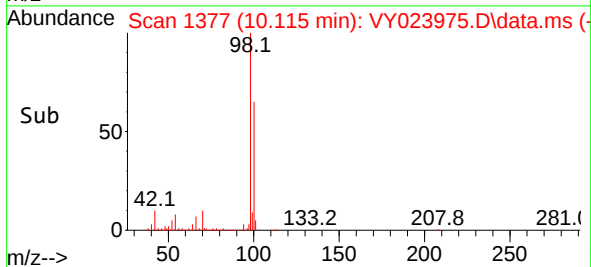
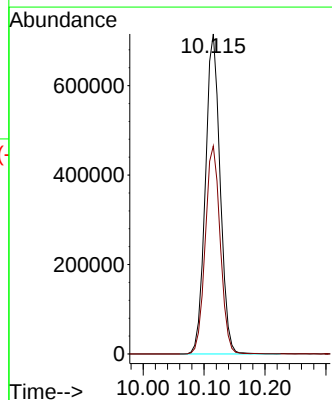
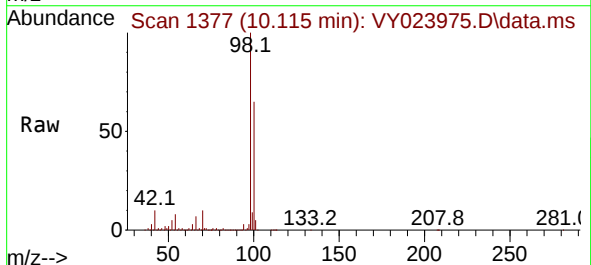
Instrument :
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ClientSampleId :
ARS20-0006

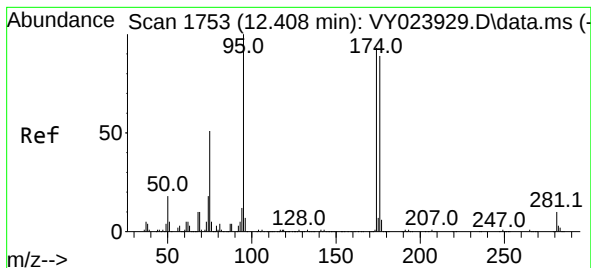
Tgt Ion:117 Resp: 56370
Ion Ratio Lower Upper
117 100
119 4.7 76.6 114.8#
121 0.0 24.8 37.2#



#50
Toluene-d8
Concen: 46.299 ug/l
RT: 10.115 min Scan# 1377
Delta R.T. 0.006 min
Lab File: VY023975.D
Acq: 15 Dec 2025 14:37

Tgt Ion: 98 Resp: 1201376
Ion Ratio Lower Upper
98 100
100 66.1 52.8 79.2

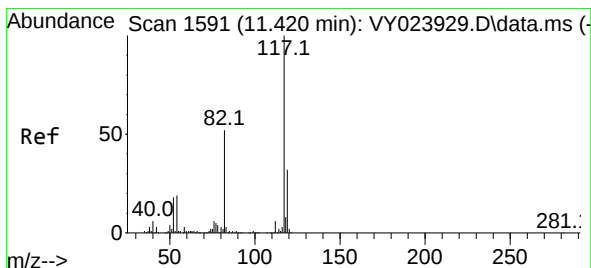
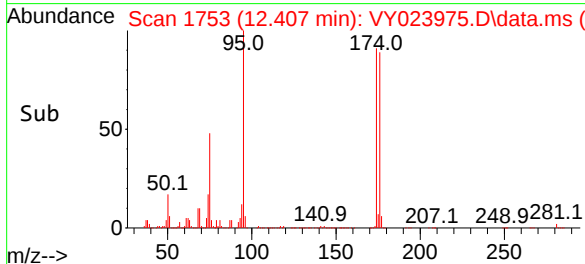
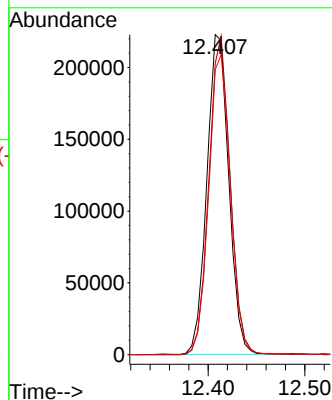
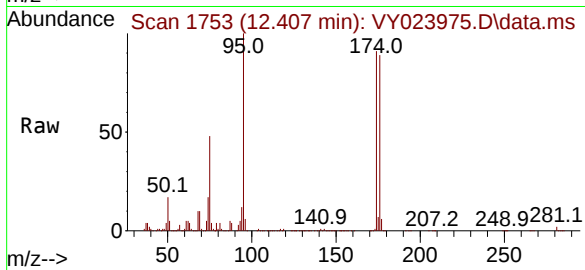




#62
4-Bromofluorobenzene
Concen: 40.560 ug/l
RT: 12.407 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY023975.D
Acq: 15 Dec 2025 14:37

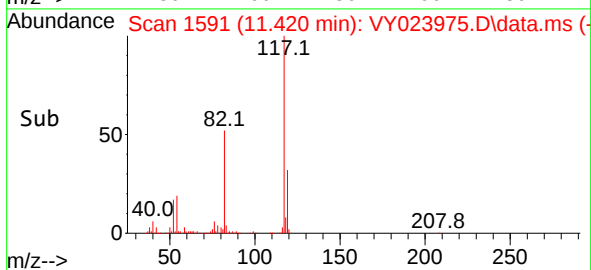
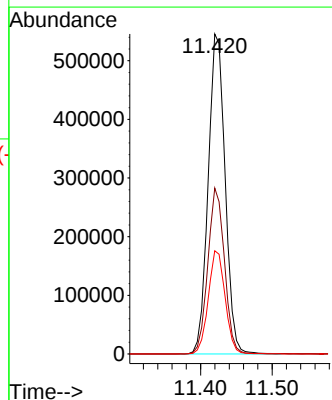
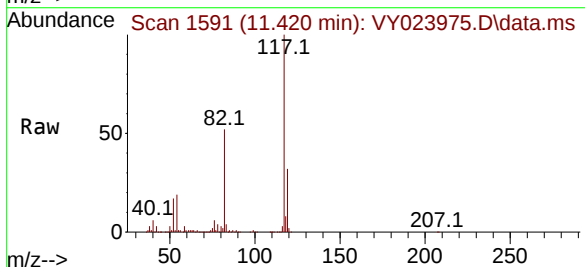
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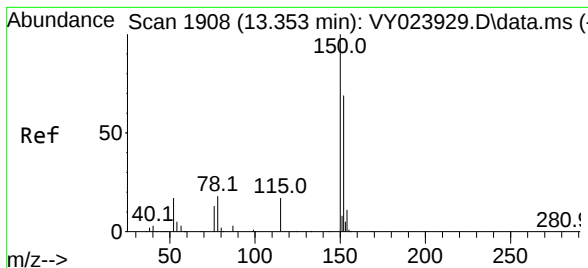
Tgt Ion: 95 Resp: 351479
Ion Ratio Lower Upper
95 100
174 96.9 0.0 187.4
176 93.4 0.0 179.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1591
Delta R.T. -0.000 min
Lab File: VY023975.D
Acq: 15 Dec 2025 14:37

Tgt Ion: 117 Resp: 898459
Ion Ratio Lower Upper
117 100
82 51.8 41.4 62.2
119 32.3 25.5 38.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.352 min Scan# 1908

Delta R.T. -0.000 min

Lab File: VY023975.D

Acq: 15 Dec 2025 14:37

Instrument :

MSVOA_Y

ClientSampleId :

ARS20-0006

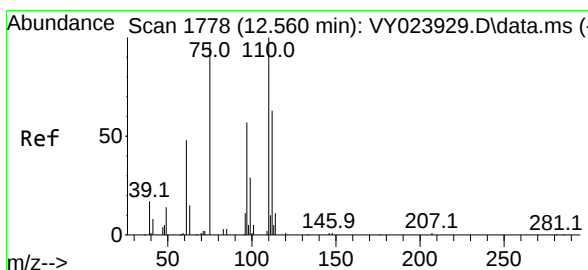
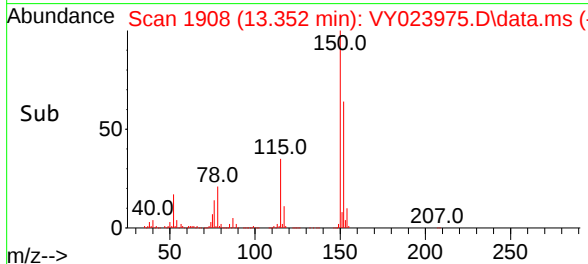
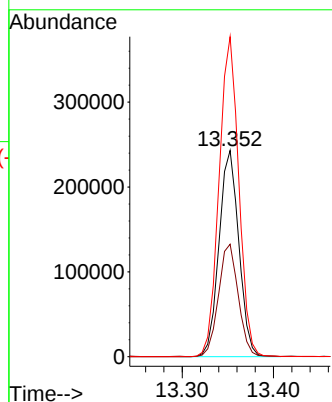
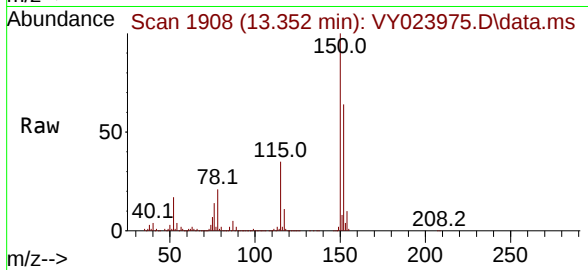
Tgt Ion:152 Resp: 366577

Ion Ratio Lower Upper

152 100

115 54.4 27.3 81.9

150 154.3 0.0 347.6



#76

1,2,3-Trichloropropane

Concen: 55.255 ug/l

RT: 12.407 min Scan# 1753

Delta R.T. -0.153 min

Lab File: VY023975.D

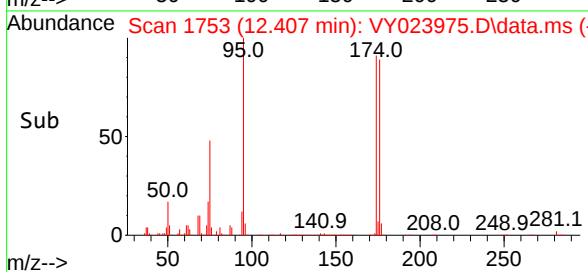
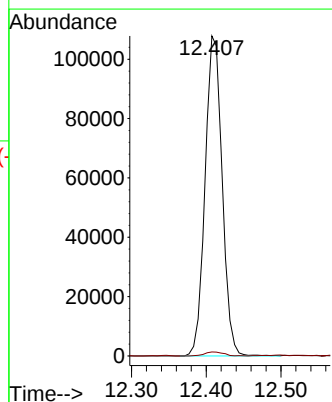
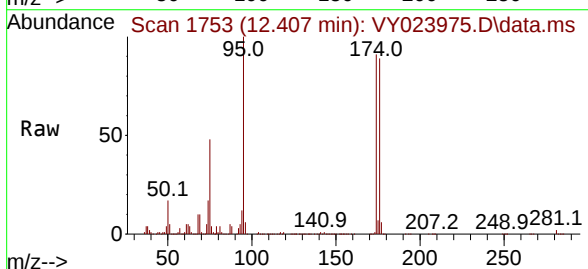
Acq: 15 Dec 2025 14:37

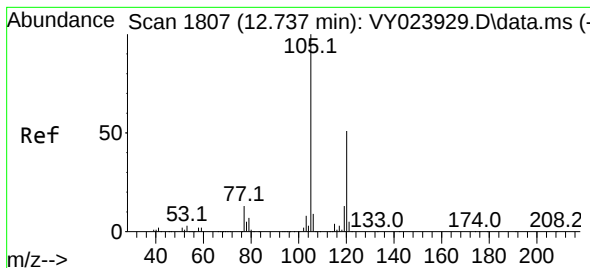
Tgt Ion: 75 Resp: 171338

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#





#80

1,3,5-Trimethylbenzene

Concen: 1.457 ug/l

RT: 12.743 min Scan# 1

Delta R.T. 0.006 min

Lab File: VY023975.D

Acq: 15 Dec 2025 14:37

Instrument :

MSVOA_Y

ClientSampleId :

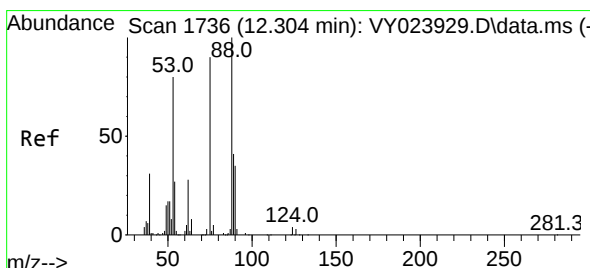
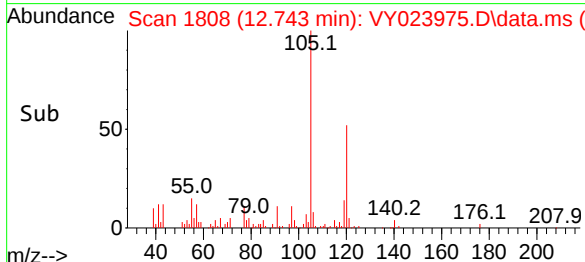
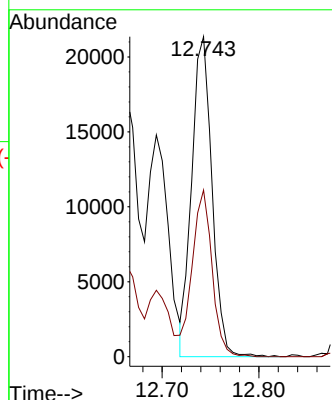
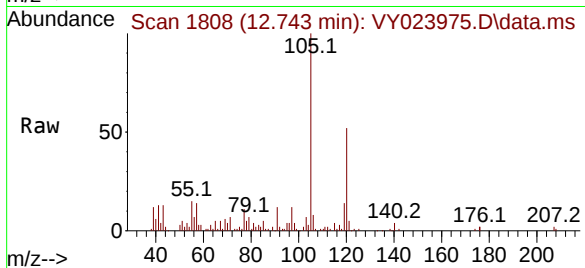
ARS20-0006

Tgt Ion:105 Resp: 31135

Ion Ratio Lower Upper

105 100

120 52.2 25.7 77.1



#81

trans-1,4-Dichloro-2-butene

Concen: 125.774 ug/l

RT: 12.407 min Scan# 1753

Delta R.T. 0.103 min

Lab File: VY023975.D

Acq: 15 Dec 2025 14:37

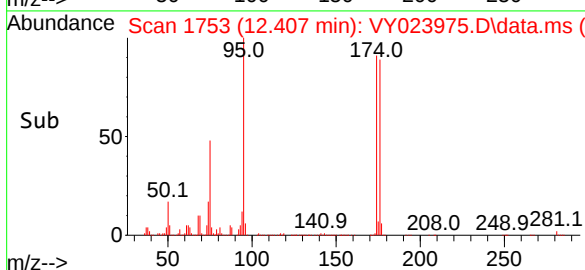
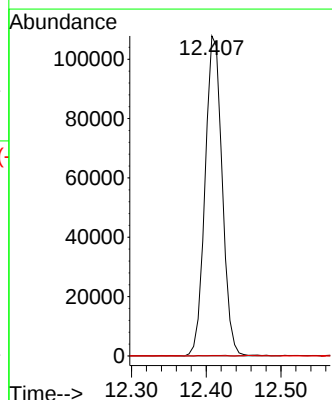
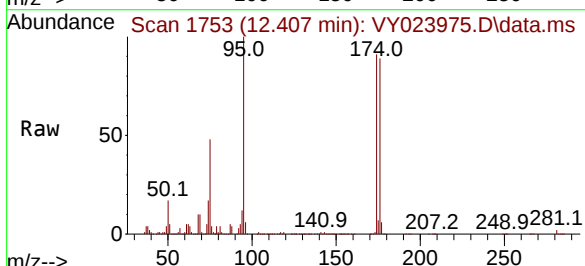
Tgt Ion: 75 Resp: 171338

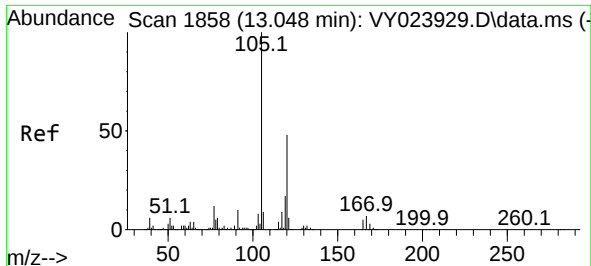
Ion Ratio Lower Upper

75 100

53 0.2 73.4 110.0#

89 0.0 38.9 58.3#

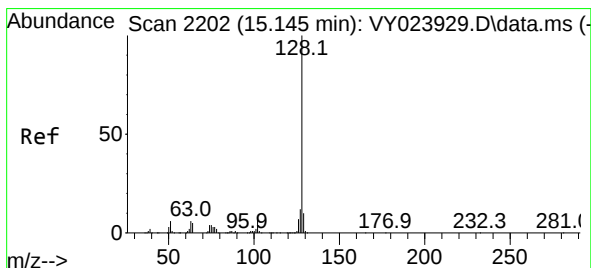
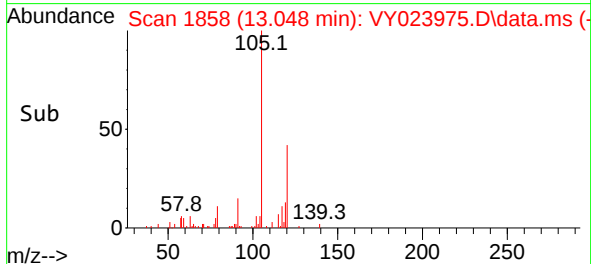
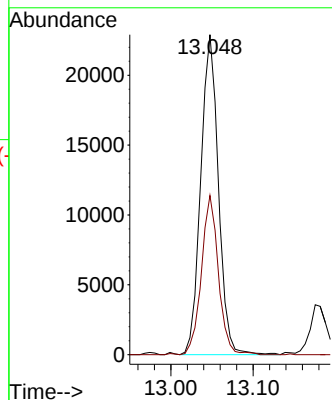
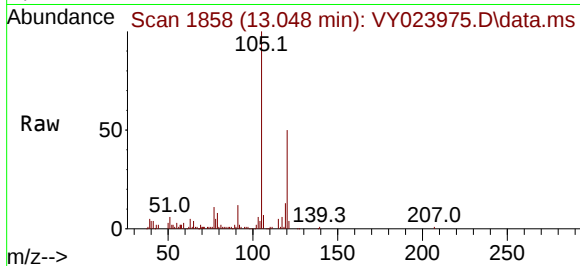




#84
1,2,4-Trimethylbenzene
Concen: 1.614 ug/l
RT: 13.048 min Scan# 1858
Delta R.T. -0.000 min
Lab File: VY023975.D
Acq: 15 Dec 2025 14:37

Instrument :
MSVOA_Y
ClientSampleId :
ARS20-0006

Tgt Ion:105 Resp: 34164
Ion Ratio Lower Upper
105 100
120 47.8 23.4 70.3



#95
Naphthalene
Concen: 10.543 ug/l
RT: 15.145 min Scan# 2202
Delta R.T. -0.000 min
Lab File: VY023975.D
Acq: 15 Dec 2025 14:37

Tgt Ion:128 Resp: 107163
Ion Ratio Lower Upper
128 100
127 13.1 10.2 15.2
129 11.9 8.6 12.8

