

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100925\
 Data File : VY023412.D
 Acq On : 09 Oct 2025 11:00
 Operator : SY/MD
 Sample : Q3315-03
 Misc : 5.10g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 72-11989

Quant Time: Oct 10 04:23:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 08 05:12:50 2025
 Response via : Initial Calibration

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

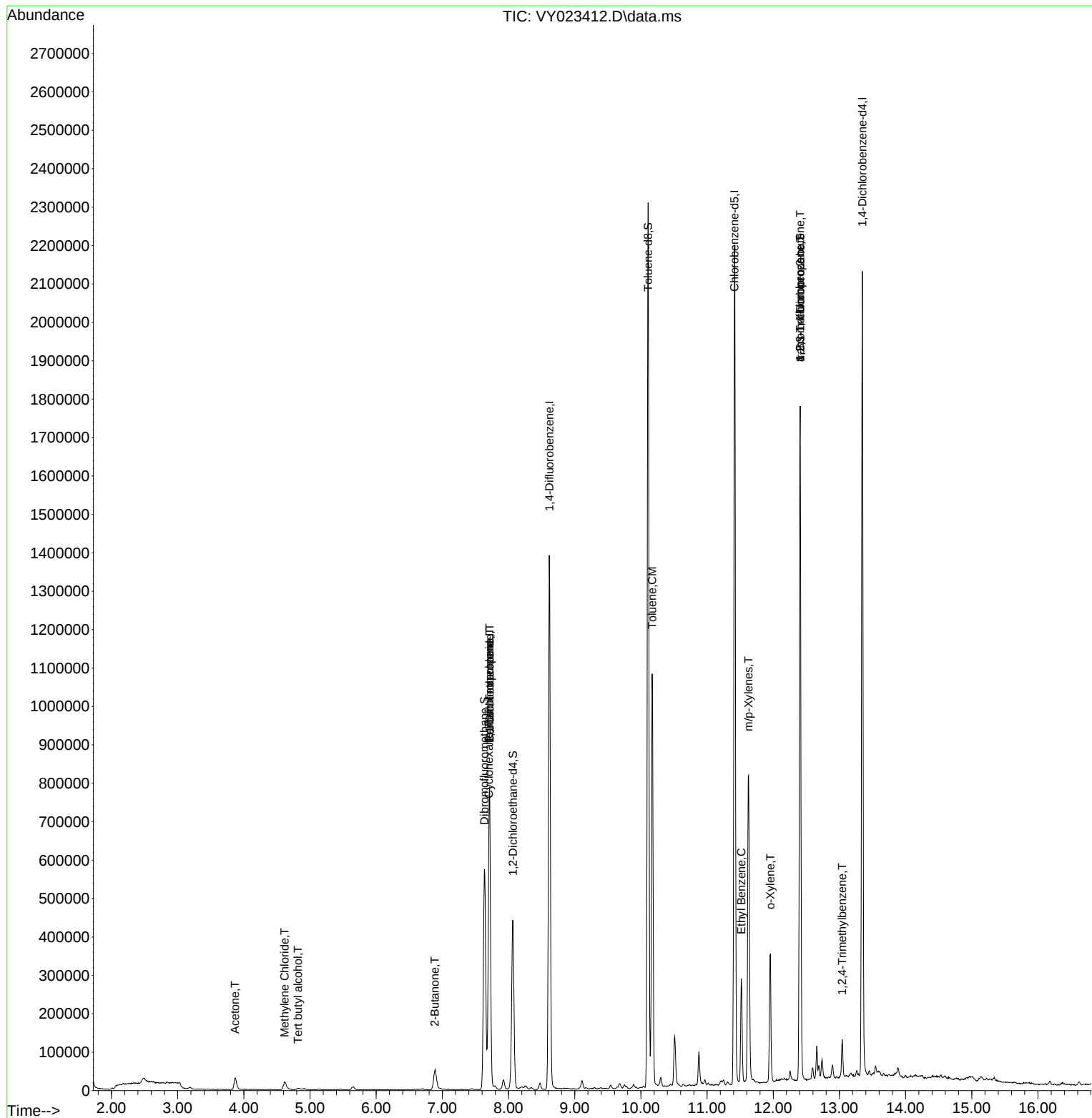
Internal Standards						
1) Pentafluorobenzene	7.713	168	659026	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	1267941	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	1251859	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	555934	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	342186	62.093	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 124.180%	
35) Dibromofluoromethane	7.634	113	417925	53.643	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 107.280%	
50) Toluene-d8	10.109	98	1523411	52.506	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 105.020%	
62) 4-Bromofluorobenzene	12.408	95	517495	54.024	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 108.040%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.818	59	4035	9.842	ug/l #	72
16) Acetone	3.867	43	53499	40.778	ug/l	96
20) Methylene Chloride	4.616	84	15505	2.186	ug/l	96
25) 2-Butanone	6.884	43	2976	1.858	ug/l #	78
31) Cyclohexane	7.701	56	16339	1.782	ug/l #	46
36) 1,1-Dichloropropene	7.713	75	41584	4.032	ug/l #	49
38) Carbon Tetrachloride	7.713	117	58737	4.696	ug/l #	16
52) Toluene	10.170	92	466354	21.989	ug/l	100
67) Ethyl Benzene	11.518	91	187697	4.259	ug/l	98
68) m/p-Xylenes	11.627	106	267829	15.151	ug/l	99
69) o-Xylene	11.957	106	93211	5.622	ug/l	99
76) 1,2,3-Trichloropropane	12.408	75	253852	51.756	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.408	75	253852	126.915	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.042	105	52495	1.777	ug/l	98

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100925\
Data File : VY023412.D
Acq On : 09 Oct 2025 11:00
Operator : SY/MD
Sample : Q3315-03
Misc : 5.10g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
72-11989

Quant Time: Oct 10 04:23:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 2025
Response via : Initial Calibration

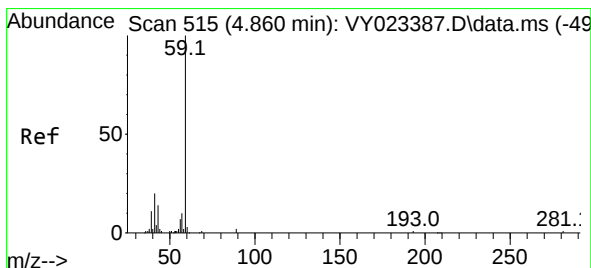
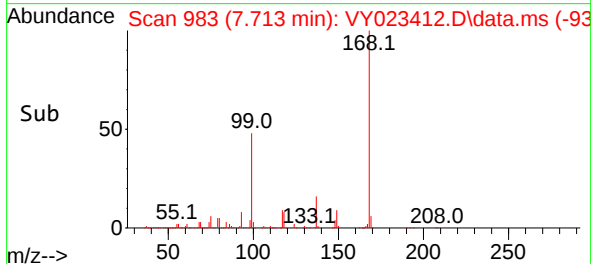
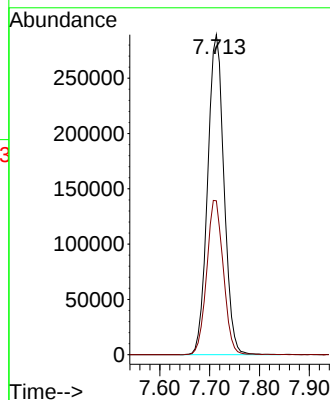
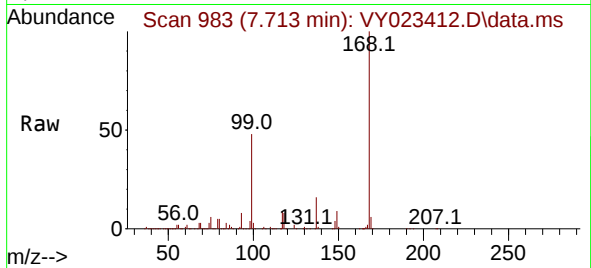




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023412.D
Acq: 09 Oct 2025 11:00

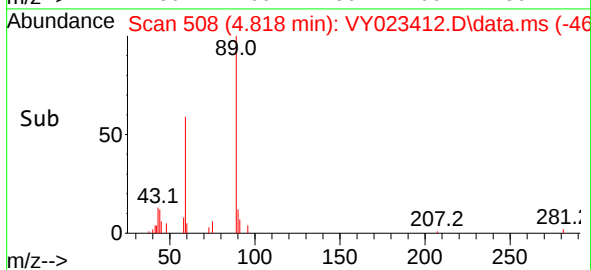
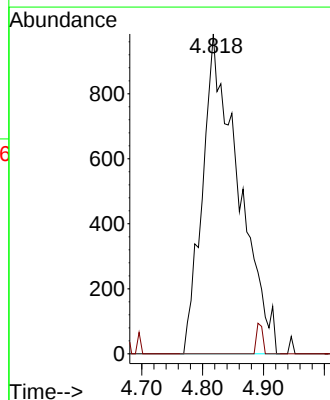
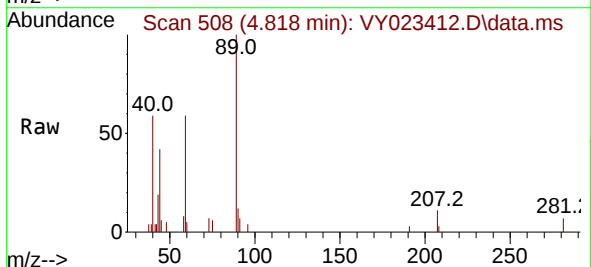
Instrument :
MSVOA_Y
ClientSampleId :
72-11989

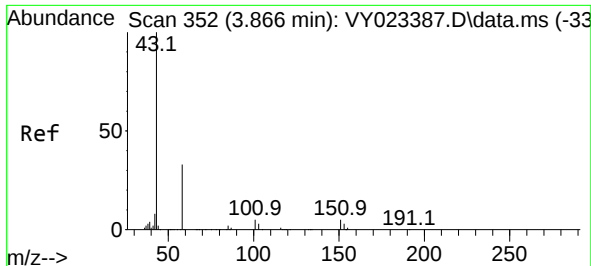
Tgt Ion:168 Resp: 659026
Ion Ratio Lower Upper
168 100
99 48.1 39.7 59.5



#11
Tert butyl alcohol
Concen: 9.842 ug/l
RT: 4.818 min Scan# 508
Delta R.T. -0.043 min
Lab File: VY023412.D
Acq: 09 Oct 2025 11:00

Tgt Ion: 59 Resp: 4035
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

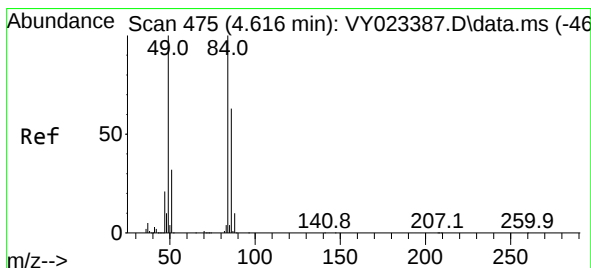
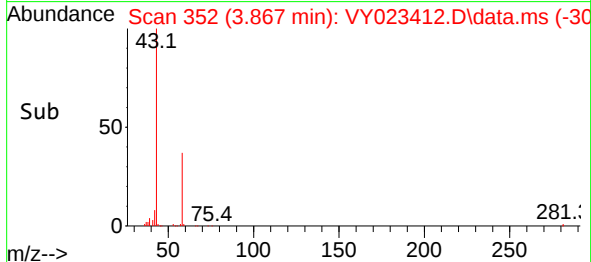
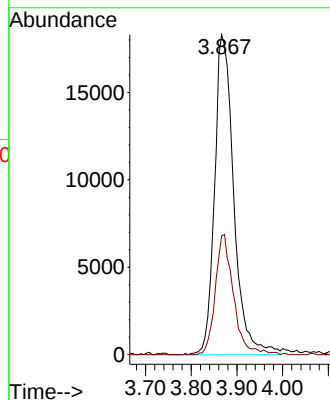
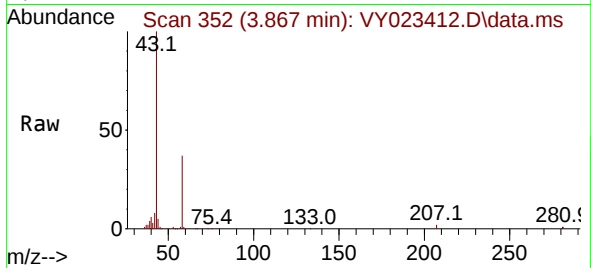




#16
Acetone
Concen: 40.778 ug/l
RT: 3.867 min Scan# 31
Delta R.T. 0.000 min
Lab File: VY023412.D
Acq: 09 Oct 2025 11:00

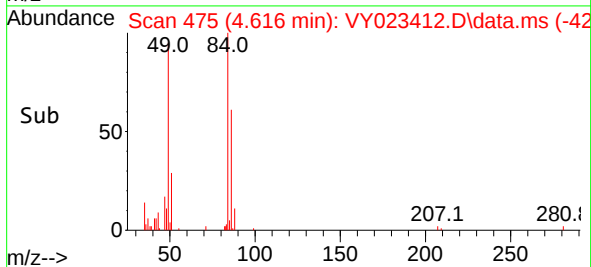
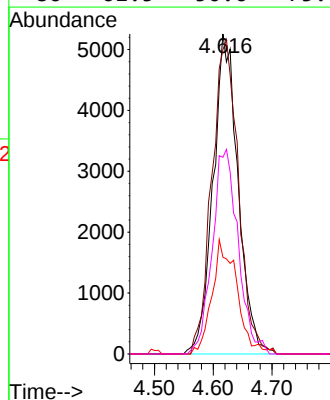
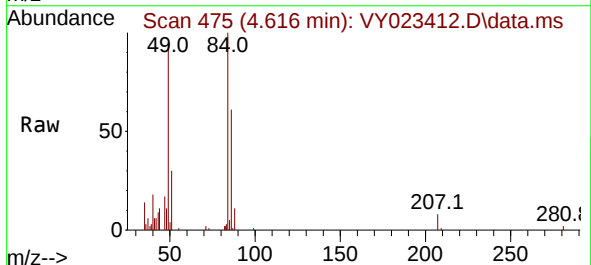
Instrument :
MSVOA_Y
ClientSampleId :
72-11989

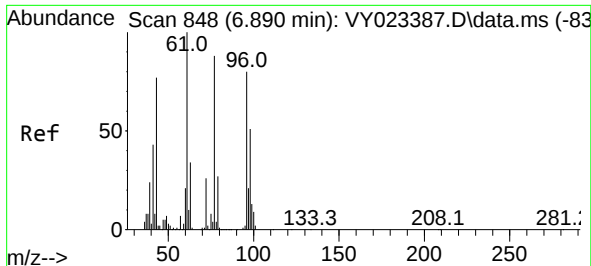
Tgt Ion: 43 Resp: 53499
Ion Ratio Lower Upper
43 100
58 37.1 27.7 41.5



#20
Methylene Chloride
Concen: 2.186 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.000 min
Lab File: VY023412.D
Acq: 09 Oct 2025 11:00

Tgt Ion: 84 Resp: 15505
Ion Ratio Lower Upper
84 100
49 95.1 80.2 120.4
51 30.2 25.9 38.9
86 61.5 50.6 75.8

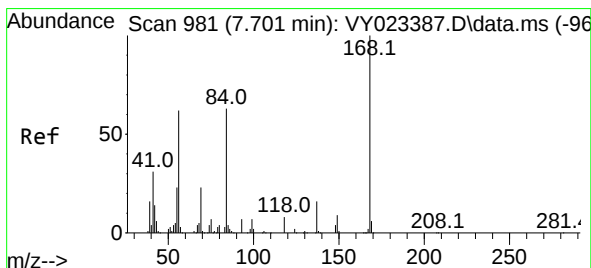
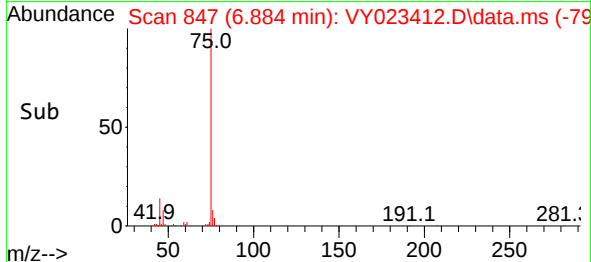
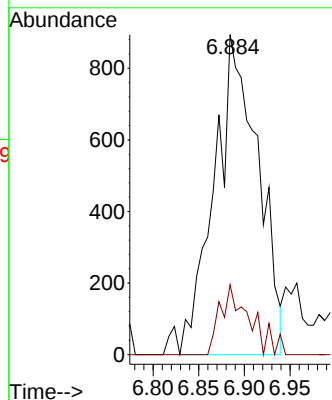
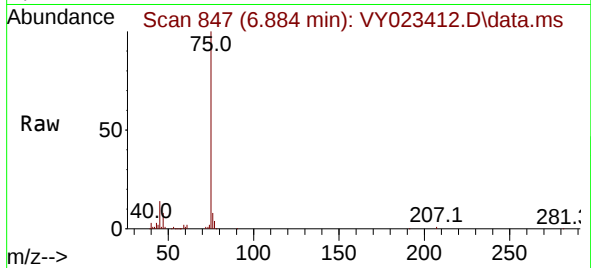




#25
2-Butanone
Concen: 1.858 ug/l
RT: 6.884 min Scan# 848
Delta R.T. -0.006 min
Lab File: VY023412.D
Acq: 09 Oct 2025 11:00

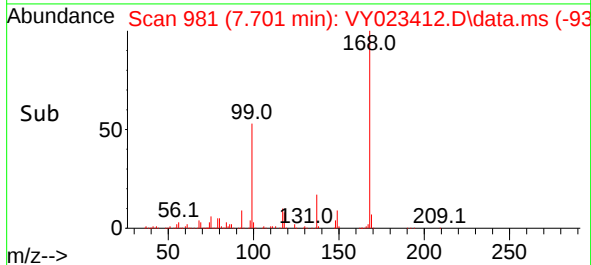
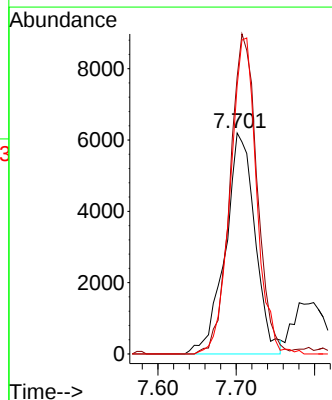
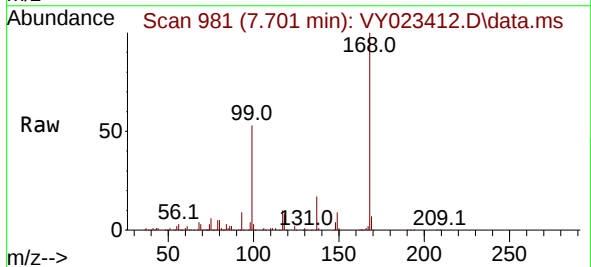
Instrument :
MSVOA_Y
ClientSampleId :
72-11989

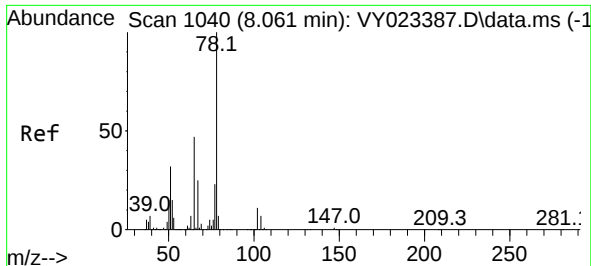
Tgt Ion: 43 Resp: 2976
Ion Ratio Lower Upper
43 100
72 21.8 27.4 41.2#



#31
Cyclohexane
Concen: 1.782 ug/l
RT: 7.701 min Scan# 981
Delta R.T. 0.000 min
Lab File: VY023412.D
Acq: 09 Oct 2025 11:00

Tgt Ion: 56 Resp: 16339
Ion Ratio Lower Upper
56 100
69 125.3 30.0 45.0#
84 121.4 81.2 121.8





#33

1,2-Dichloroethane-d4

Concen: 62.093 ug/l

RT: 8.067 min Scan# 1040

Delta R.T. 0.006 min

Lab File: VY023412.D

Acq: 09 Oct 2025 11:00

Instrument :

MSVOA_Y

ClientSampleId :

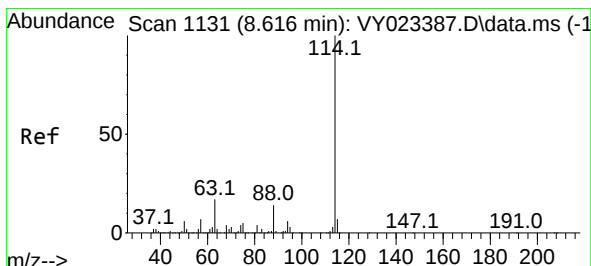
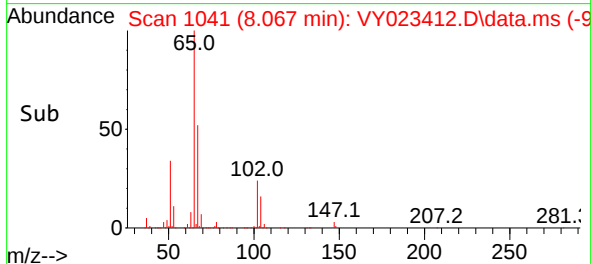
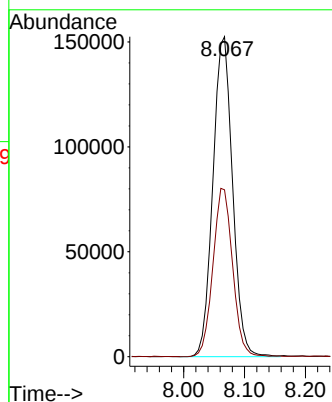
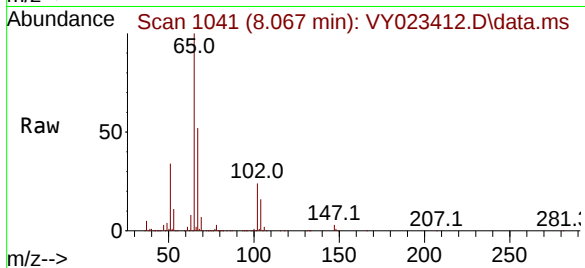
72-11989

Tgt Ion: 65 Resp: 342186

Ion Ratio Lower Upper

65 100

67 52.7 0.0 105.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VY023412.D

Acq: 09 Oct 2025 11:00

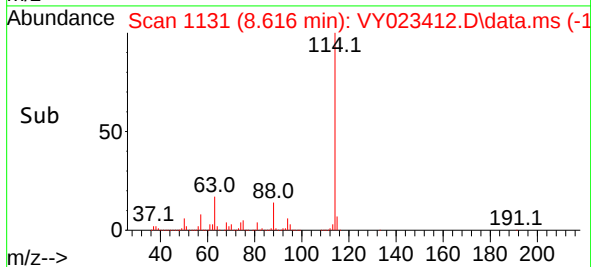
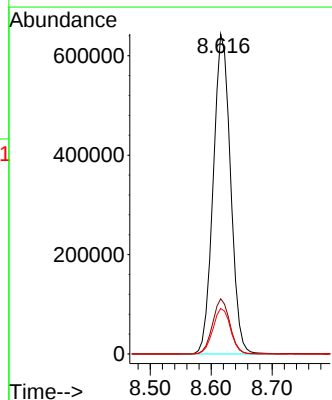
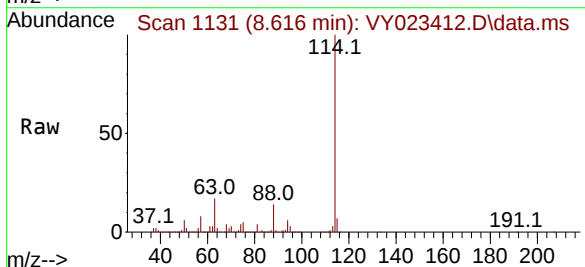
Tgt Ion: 114 Resp: 1267941

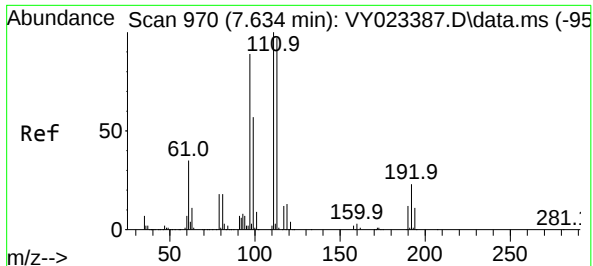
Ion Ratio Lower Upper

114 100

63 17.3 0.0 34.2

88 14.2 0.0 28.4

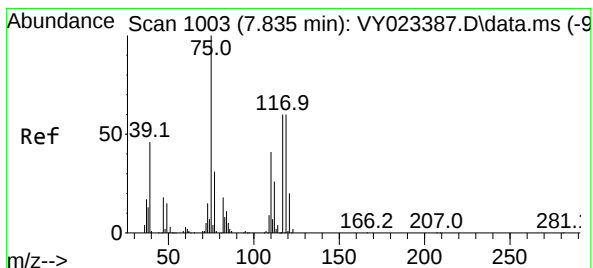
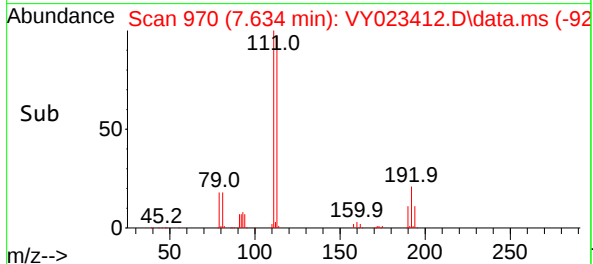
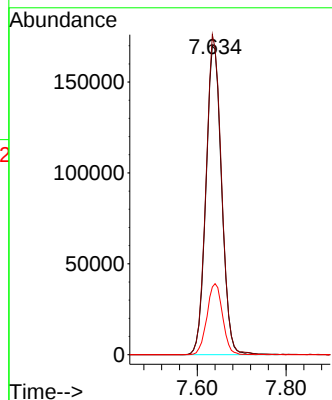
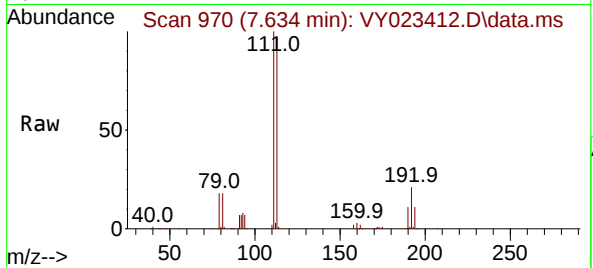




#35
Dibromofluoromethane
Concen: 53.643 ug/l
RT: 7.634 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY023412.D
Acq: 09 Oct 2025 11:00

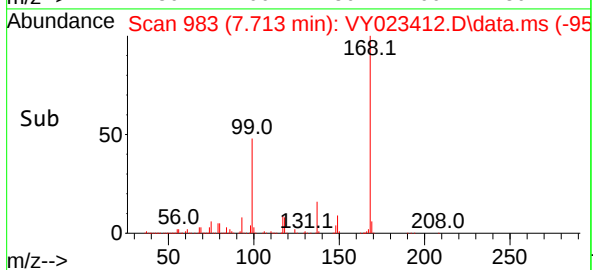
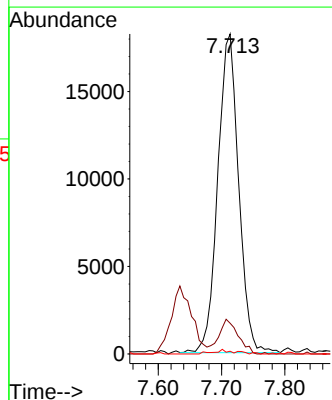
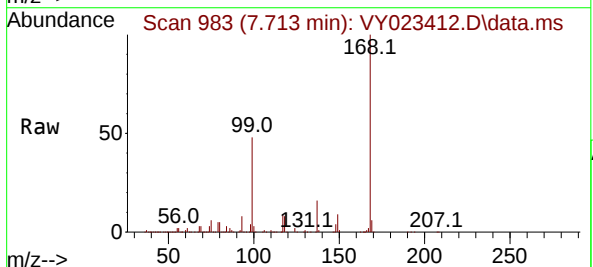
Instrument :
MSVOA_Y
ClientSampleId :
72-11989

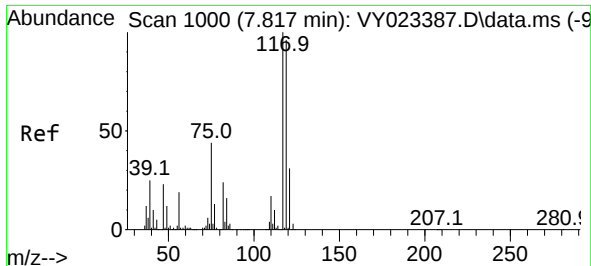
Tgt Ion:113 Resp: 417925
Ion Ratio Lower Upper
113 100
111 102.1 81.8 122.6
192 22.9 18.0 27.0



#36
1,1-Dichloropropene
Concen: 4.032 ug/l
RT: 7.713 min Scan# 983
Delta R.T. -0.122 min
Lab File: VY023412.D
Acq: 09 Oct 2025 11:00

Tgt Ion: 75 Resp: 41584
Ion Ratio Lower Upper
75 100
110 10.1 19.9 59.7#
77 0.7 25.0 37.6#

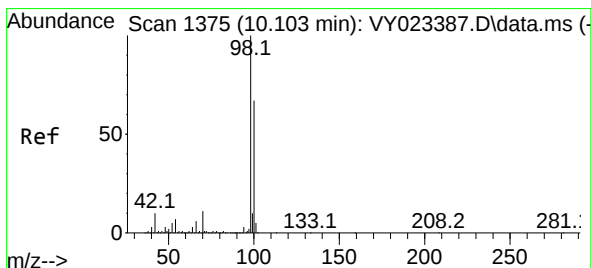
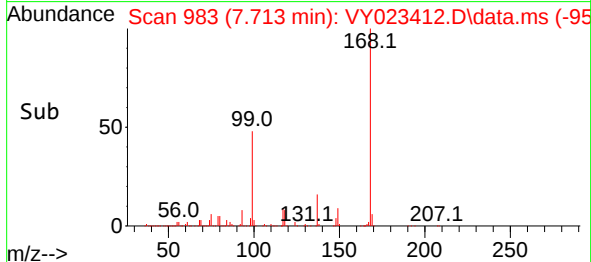
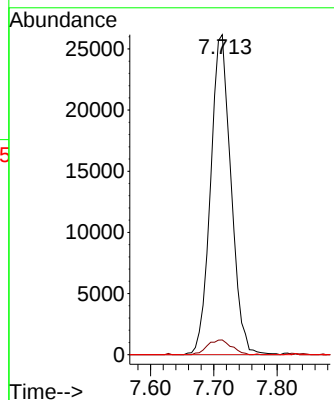
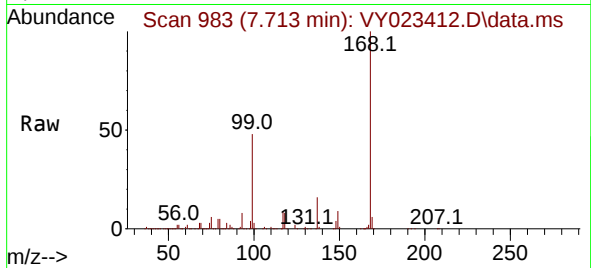




#38
Carbon Tetrachloride
Concen: 4.696 ug/l
RT: 7.713 min Scan# 91
Delta R.T. -0.104 min
Lab File: VY023412.D
Acq: 09 Oct 2025 11:00

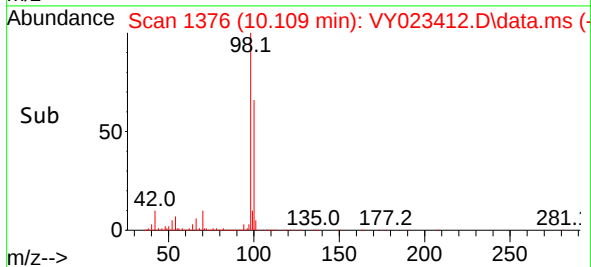
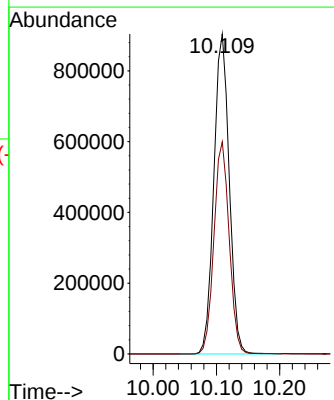
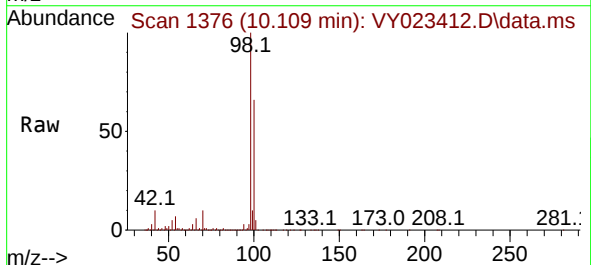
Instrument :
MSVOA_Y
ClientSampleId :
72-11989

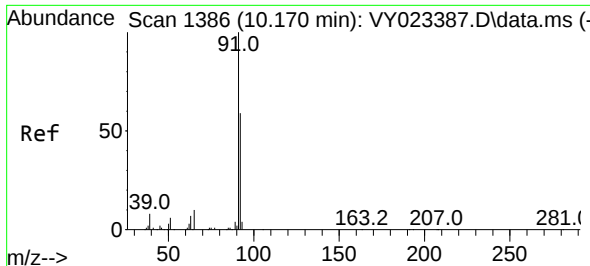
Tgt Ion:117 Resp: 58737
Ion Ratio Lower Upper
117 100
119 4.6 76.8 115.2#
121 0.0 24.5 36.7#



#50
Toluene-d8
Concen: 52.506 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY023412.D
Acq: 09 Oct 2025 11:00

Tgt Ion: 98 Resp: 1523411
Ion Ratio Lower Upper
98 100
100 65.7 53.0 79.4

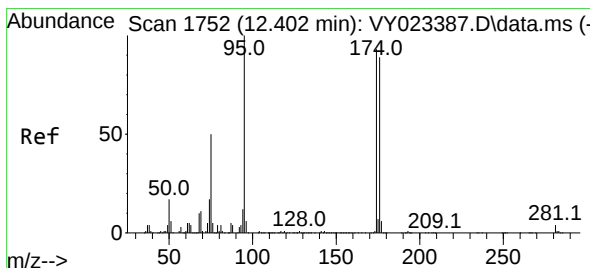
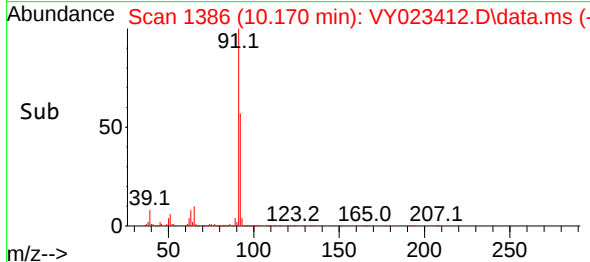
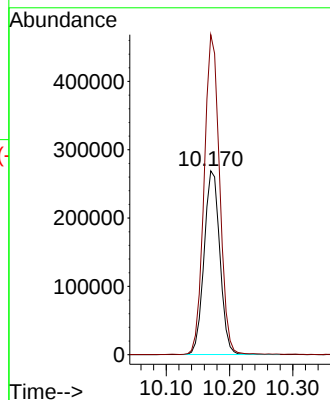
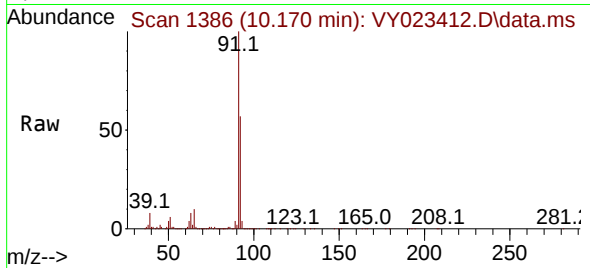




#52
Toluene
Concen: 21.989 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY023412.D
Acq: 09 Oct 2025 11:00

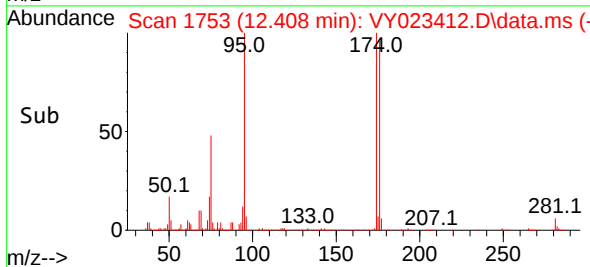
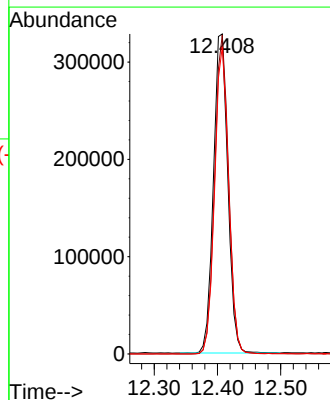
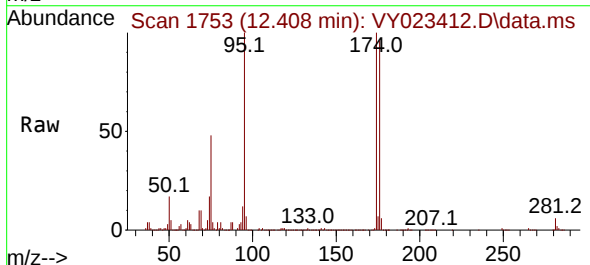
Instrument :
MSVOA_Y
ClientSampleId :
72-11989

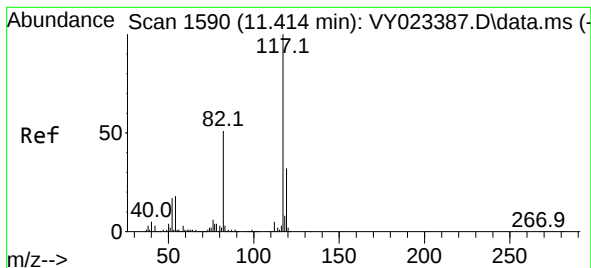
Tgt Ion: 92 Resp: 466354
Ion Ratio Lower Upper
92 100
91 171.1 136.4 204.6



#62
4-Bromofluorobenzene
Concen: 54.024 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY023412.D
Acq: 09 Oct 2025 11:00

Tgt Ion: 95 Resp: 517495
Ion Ratio Lower Upper
95 100
174 97.4 0.0 192.8
176 93.8 0.0 187.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY023412.D

Acq: 09 Oct 2025 11:00

Instrument :

MSVOA_Y

ClientSampleId :

72-11989

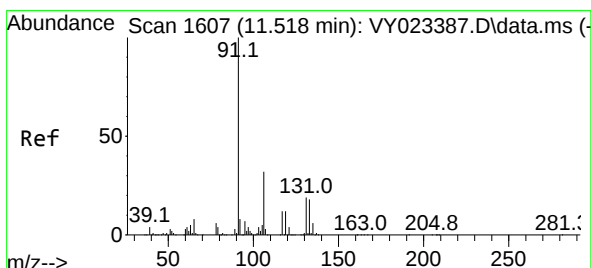
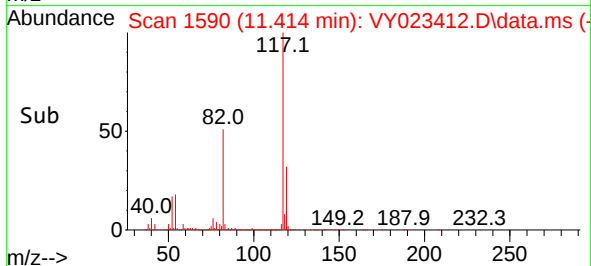
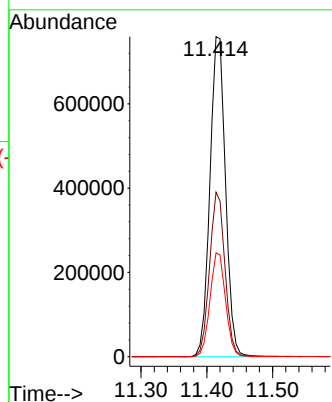
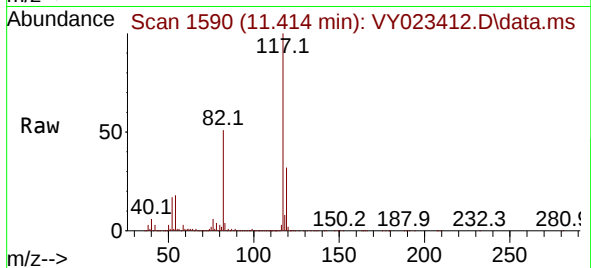
Tgt Ion:117 Resp: 1251859

Ion Ratio Lower Upper

117 100

82 51.4 41.0 61.4

119 32.4 25.6 38.4



#67

Ethyl Benzene

Concen: 4.259 ug/l

RT: 11.518 min Scan# 1607

Delta R.T. 0.000 min

Lab File: VY023412.D

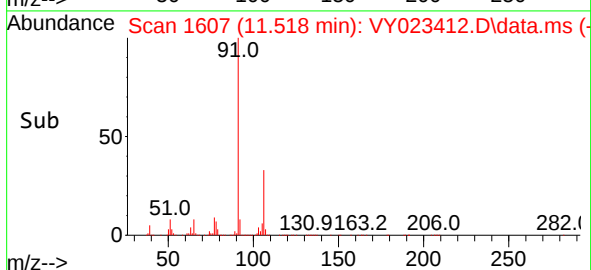
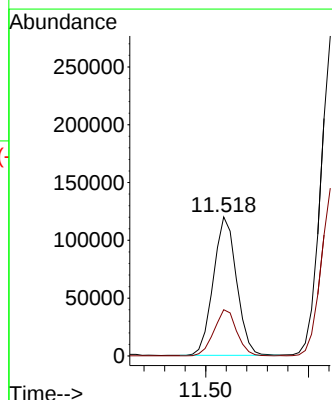
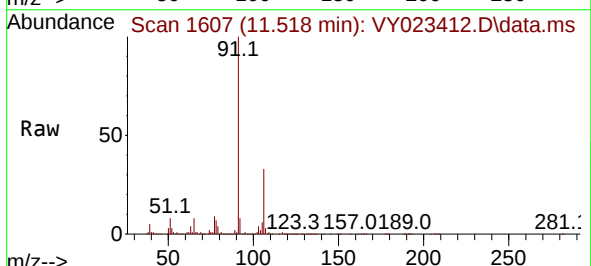
Acq: 09 Oct 2025 11:00

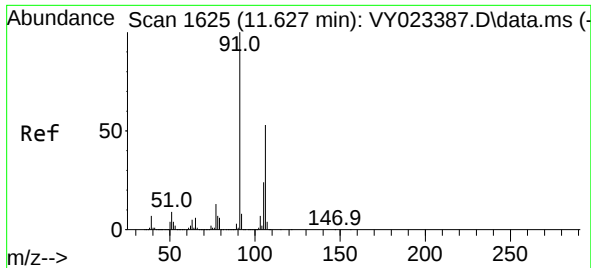
Tgt Ion: 91 Resp: 187697

Ion Ratio Lower Upper

91 100

106 33.3 25.8 38.8

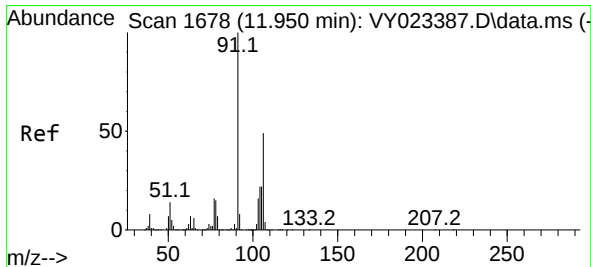
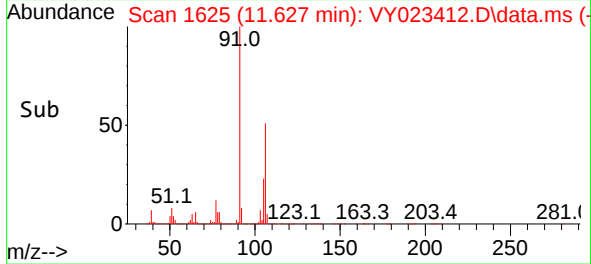
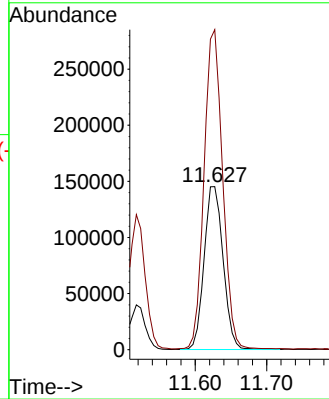
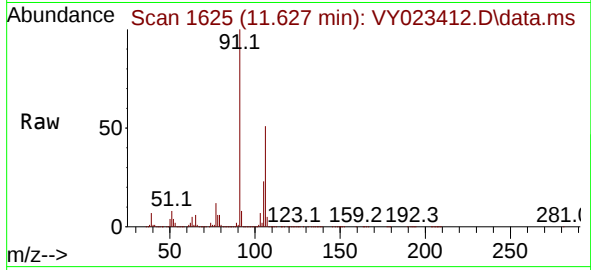




#68
m/p-Xylenes
Concen: 15.151 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY023412.D
Acq: 09 Oct 2025 11:00

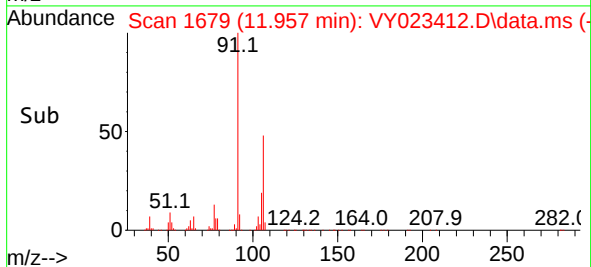
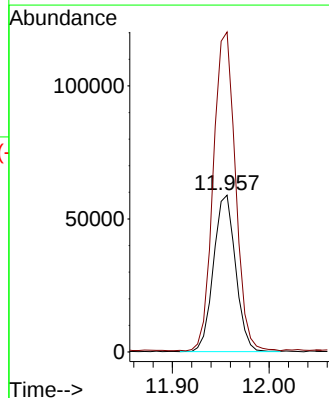
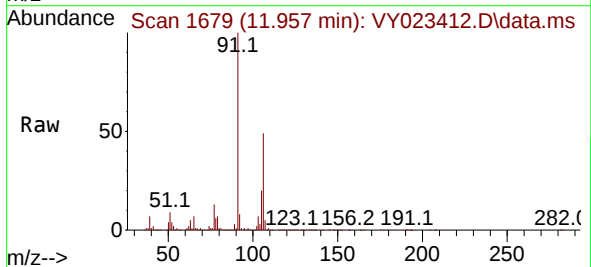
Instrument :
MSVOA_Y
ClientSampleId :
72-11989

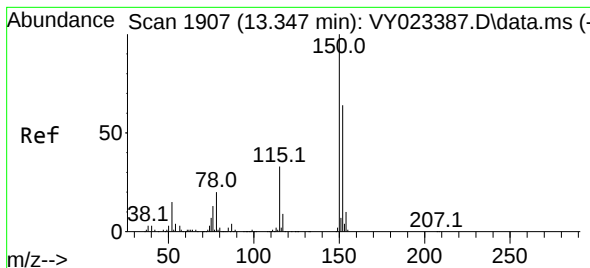
Tgt Ion:106 Resp: 267829
Ion Ratio Lower Upper
106 100
91 191.7 152.6 229.0



#69
o-Xylene
Concen: 5.622 ug/l
RT: 11.957 min Scan# 1679
Delta R.T. 0.006 min
Lab File: VY023412.D
Acq: 09 Oct 2025 11:00

Tgt Ion:106 Resp: 93211
Ion Ratio Lower Upper
106 100
91 203.8 101.4 304.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.347 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VY023412.D

Acq: 09 Oct 2025 11:00

Instrument :

MSVOA_Y

ClientSampleId :

72-11989

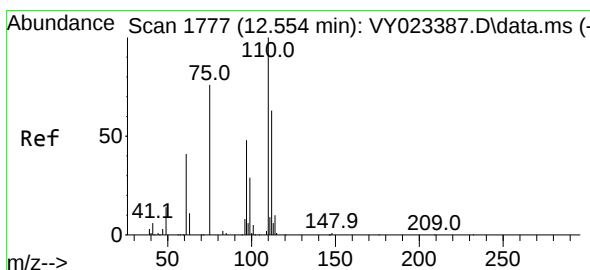
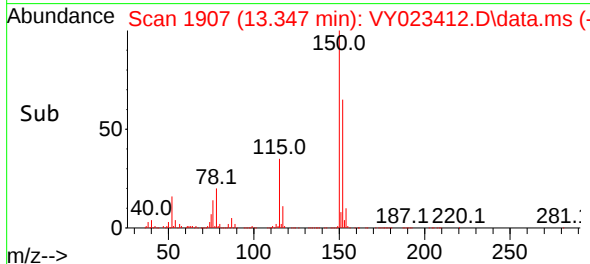
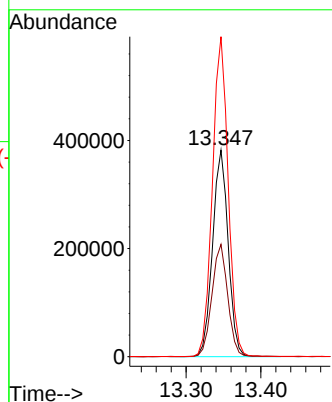
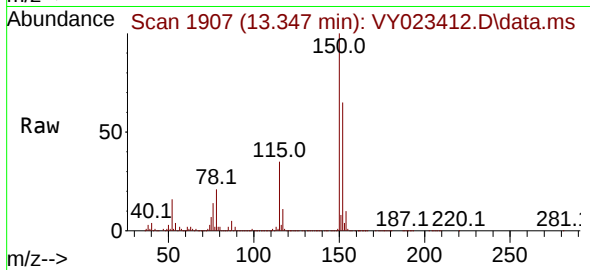
Tgt Ion:152 Resp: 555934

Ion Ratio Lower Upper

152 100

115 54.8 27.1 81.2

150 155.8 0.0 347.4



#76

1,2,3-Trichloropropane

Concen: 51.756 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. -0.146 min

Lab File: VY023412.D

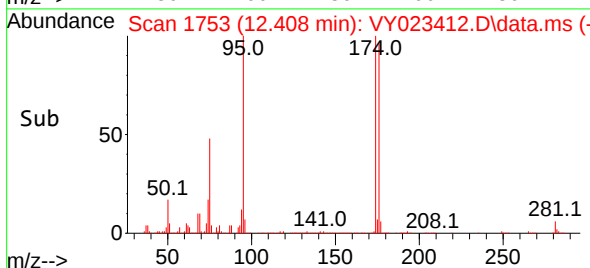
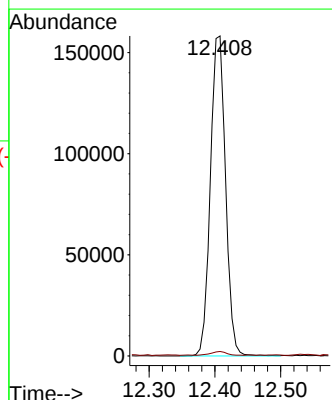
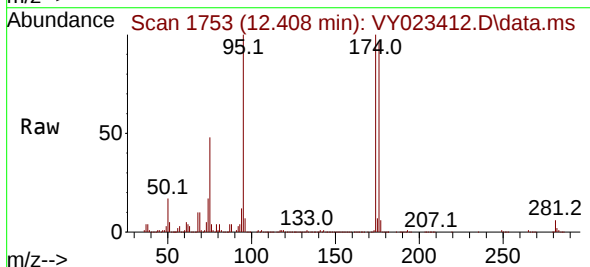
Acq: 09 Oct 2025 11:00

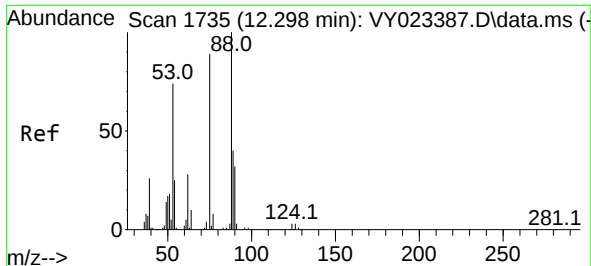
Tgt Ion: 75 Resp: 253852

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#

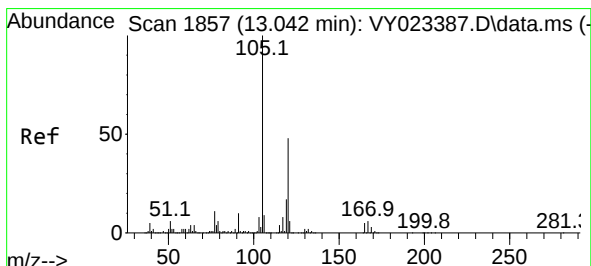
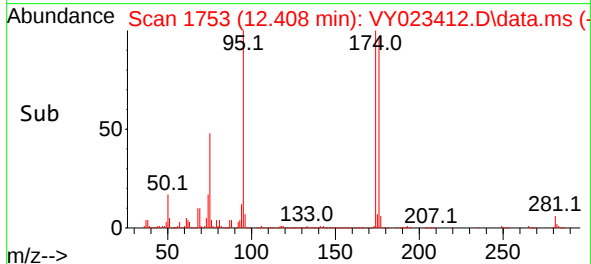
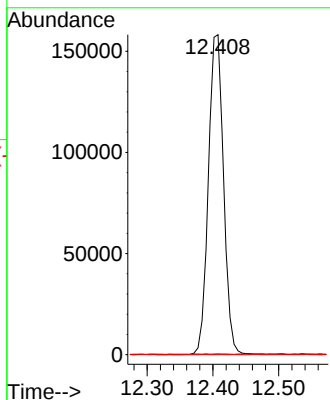
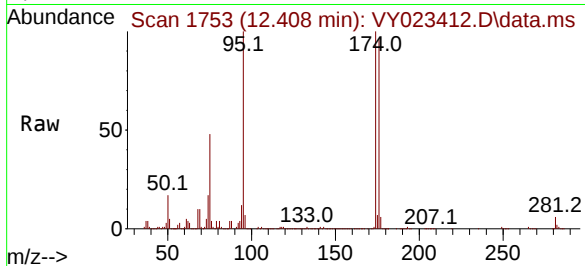




#81
trans-1,4-Dichloro-2-butene
Concen: 126.915 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.110 min
Lab File: VY023412.D
Acq: 09 Oct 2025 11:00

Instrument :
MSVOA_Y
ClientSampleId :
72-11989

Tgt Ion: 75 Resp: 253852
Ion Ratio Lower Upper
75 100
53 0.1 68.6 102.8#
89 0.0 39.0 58.4#



#84
1,2,4-Trimethylbenzene
Concen: 1.777 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY023412.D
Acq: 09 Oct 2025 11:00

Tgt Ion: 105 Resp: 52495
Ion Ratio Lower Upper
105 100
120 49.1 23.8 71.2

