

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032825\
 Data File : VY021707.D
 Acq On : 28 Mar 2025 21:06
 Operator : SY/MD
 Sample : Q1657-01
 Misc : 5.05g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 72-11998

Quant Time: Mar 28 23:50:38 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 28 02:30:29 2025
 Response via : Initial Calibration

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

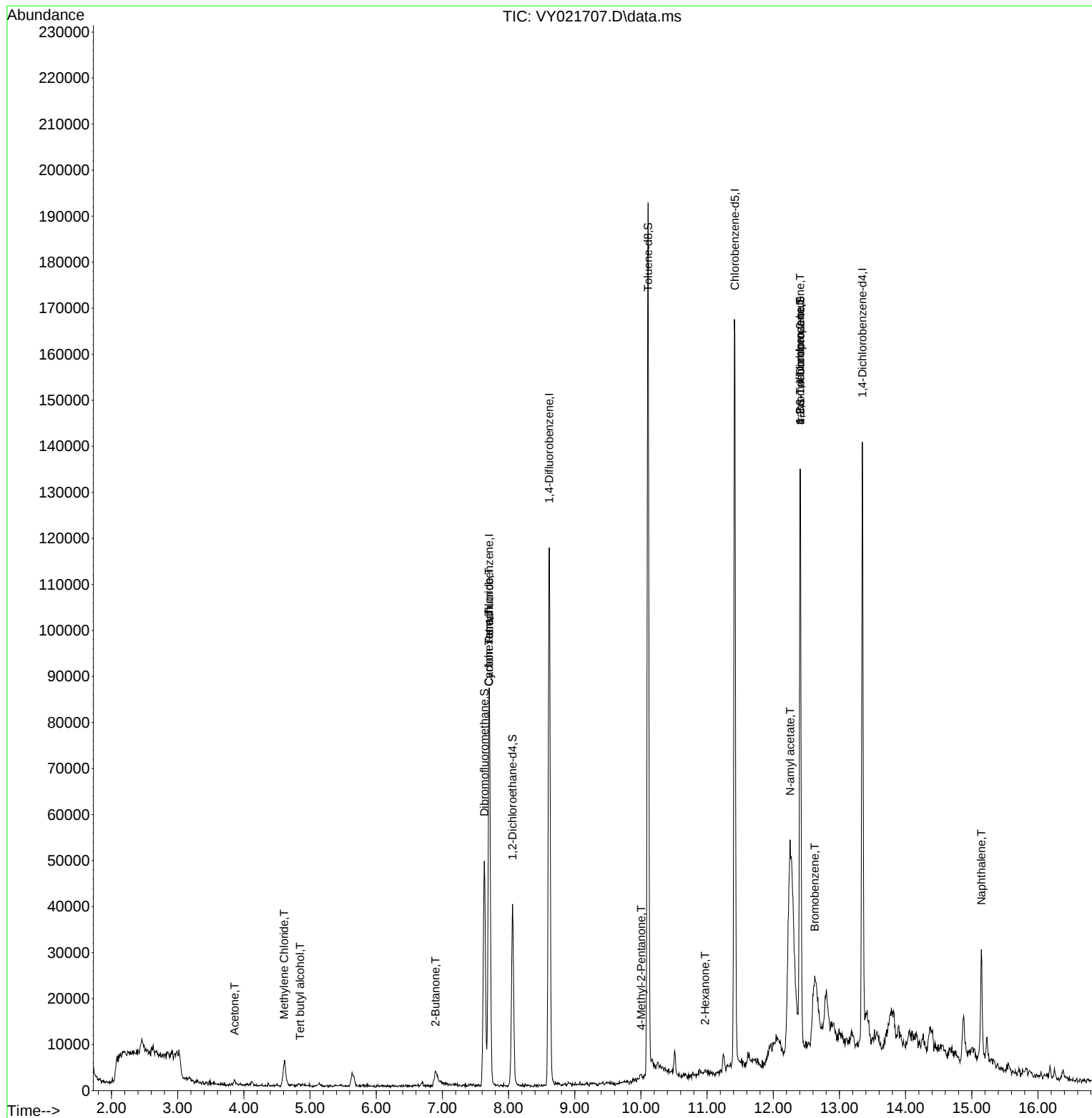
Internal Standards						
1) Pentafluorobenzene	7.707	168	64473	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	98526	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	85509	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	31489	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	30072	43.049	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	86.100%
35) Dibromofluoromethane	7.634	113	32801	51.322	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	102.640%
50) Toluene-d8	10.109	98	122411	50.346	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	100.700%
62) 4-Bromofluorobenzene	12.407	95	37155	45.178	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	90.360%
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.848	59	339	7.472	ug/l #	70
16) Acetone	3.860	43	1732	12.115	ug/l #	86
20) Methylene Chloride	4.610	84	3423	1.111	ug/l #	84
25) 2-Butanone	6.896	43	322	1.577	ug/l #	48
31) Cyclohexane	7.701	56	1737	1.409	ug/l #	56
38) Carbon Tetrachloride	7.701	117	6898	6.187	ug/l #	15
51) 4-Methyl-2-Pentanone	10.005	43	777	1.715	ug/l #	52
59) 2-Hexanone	10.969	43	311	1.031	ug/l	64
74) N-amyl acetate	12.255	43	36812	67.066	ug/l #	58
76) 1,2,3-Trichloropropane	12.407	75	19742	63.248	ug/l #	100
77) Bromobenzene	12.627	156	14333	25.524	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.407	75	19742	145.734	ug/l #	12
95) Naphthalene	15.145	128	18354	21.201	ug/l	99

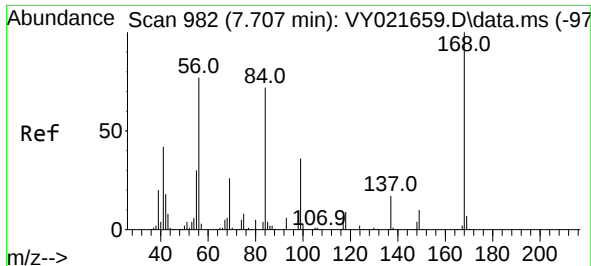
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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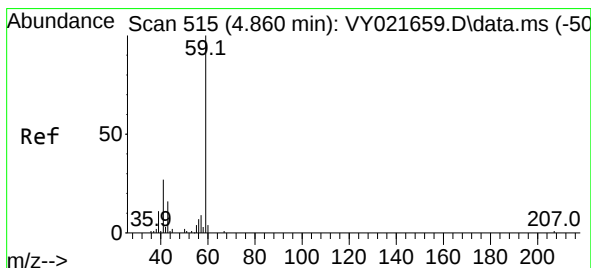
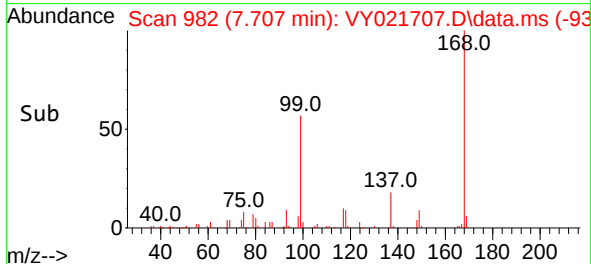
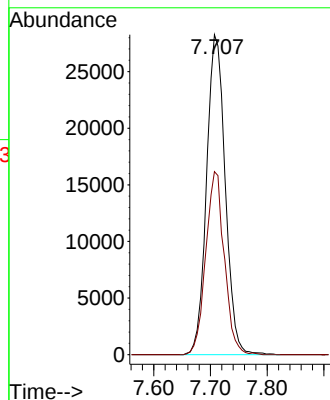
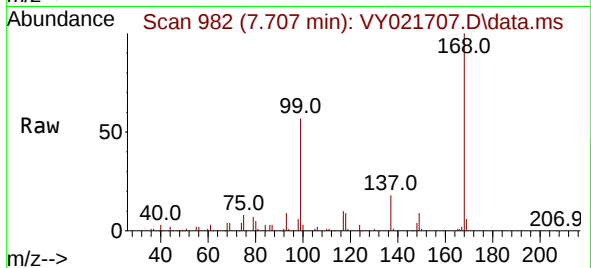




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY021707.D
Acq: 28 Mar 2025 21:06

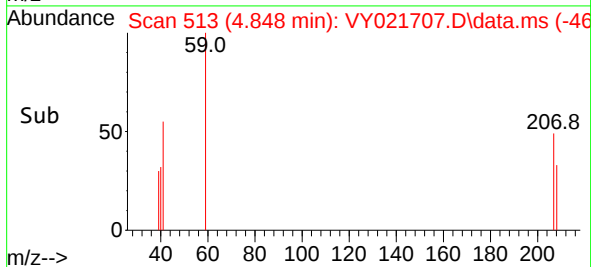
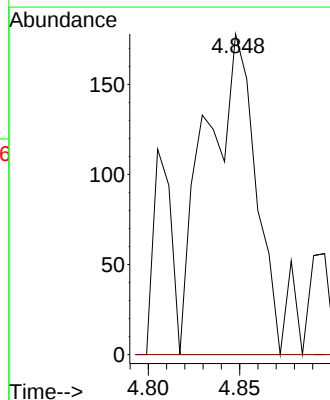
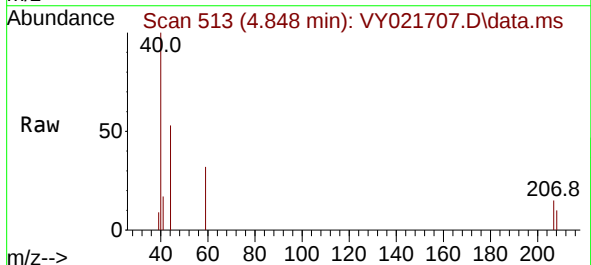
Instrument :
MSVOA_Y
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72-11998

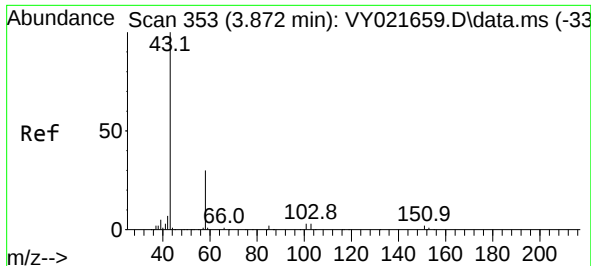
Tgt Ion:168 Resp: 64473
Ion Ratio Lower Upper
168 100
99 57.2 46.7 70.1



#11
Tert butyl alcohol
Concen: 7.472 ug/l
RT: 4.848 min Scan# 513
Delta R.T. -0.012 min
Lab File: VY021707.D
Acq: 28 Mar 2025 21:06

Tgt Ion: 59 Resp: 339
Ion Ratio Lower Upper
59 100
57 0.0 9.2 13.8#

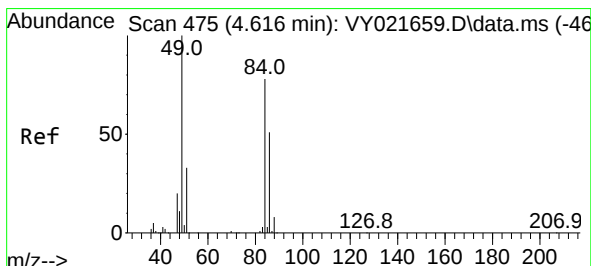
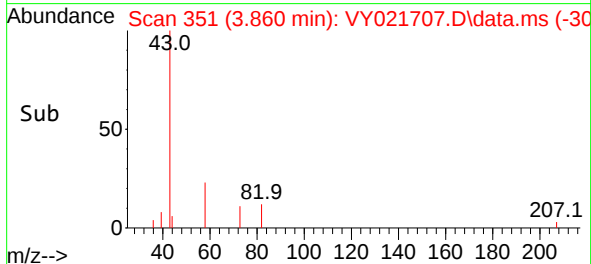
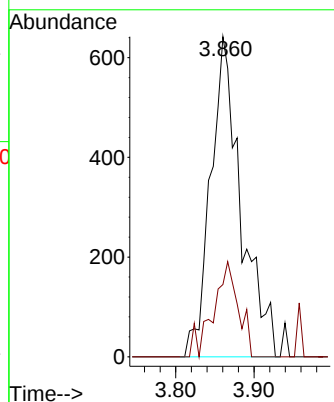
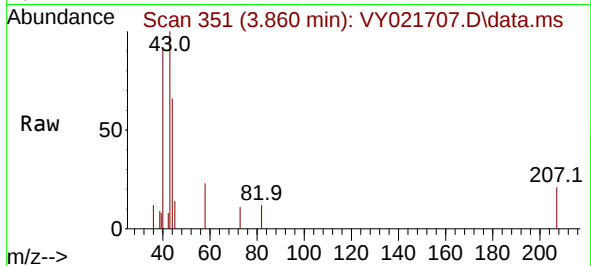




#16
Acetone
Concen: 12.115 ug/l
RT: 3.860 min Scan# 311
Delta R.T. -0.012 min
Lab File: VY021707.D
Acq: 28 Mar 2025 21:06

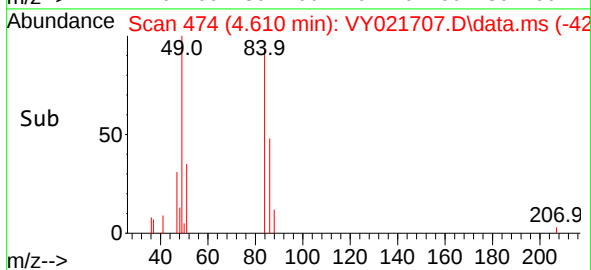
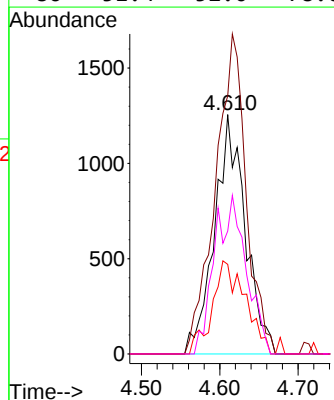
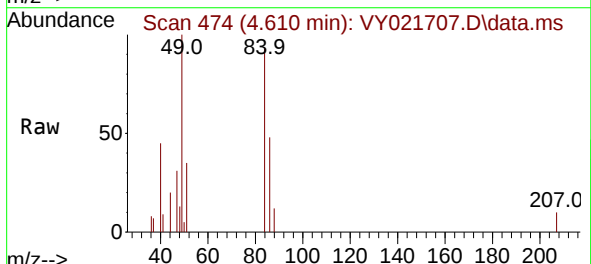
Instrument :
MSVOA_Y
ClientSampleId :
72-11998

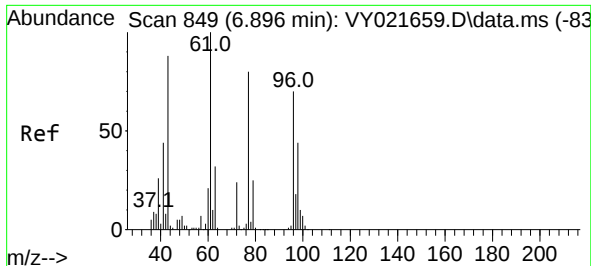
Tgt Ion: 43 Resp: 1732
Ion Ratio Lower Upper
43 100
58 22.6 24.2 36.4#



#20
Methylene Chloride
Concen: 1.111 ug/l
RT: 4.610 min Scan# 474
Delta R.T. -0.006 min
Lab File: VY021707.D
Acq: 28 Mar 2025 21:06

Tgt Ion: 84 Resp: 3423
Ion Ratio Lower Upper
84 100
49 107.8 102.8 154.2
51 37.4 33.5 50.3
86 51.4 52.0 78.0#

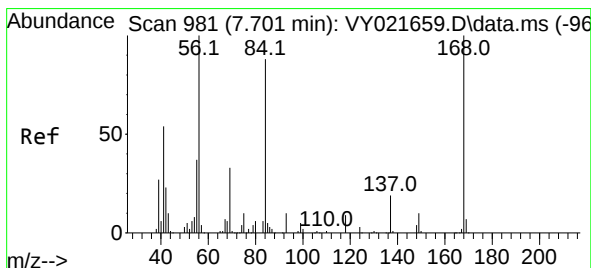
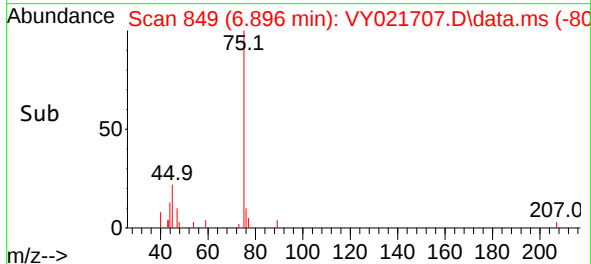
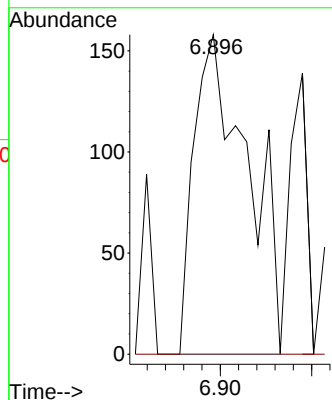
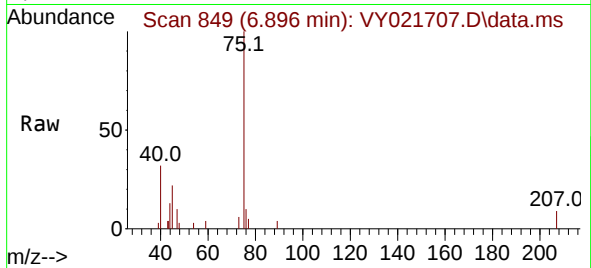




#25
2-Butanone
Concen: 1.577 ug/l
RT: 6.896 min Scan# 849
Delta R.T. -0.000 min
Lab File: VY021707.D
Acq: 28 Mar 2025 21:06

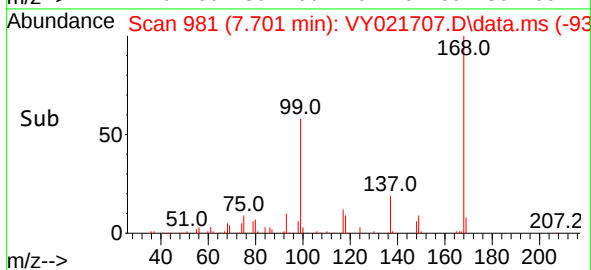
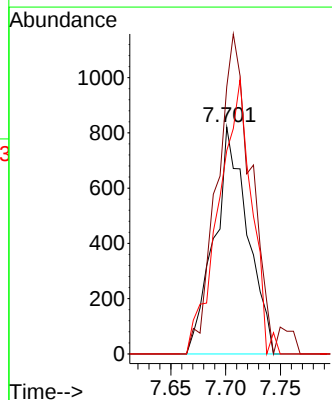
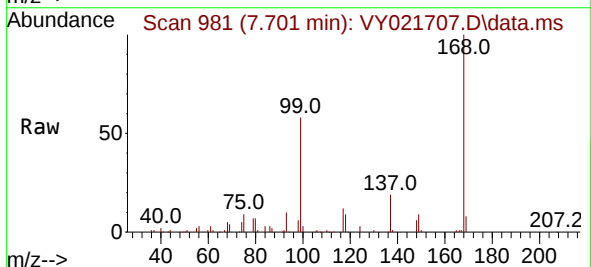
Instrument :
MSVOA_Y
ClientSampleId :
72-11998

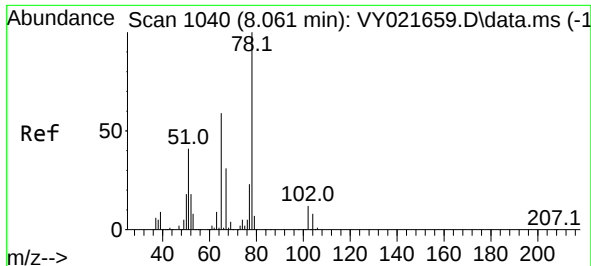
Tgt Ion: 43 Resp: 322
Ion Ratio Lower Upper
43 100
72 0.0 21.4 32.2#



#31
Cyclohexane
Concen: 1.409 ug/l
RT: 7.701 min Scan# 981
Delta R.T. -0.000 min
Lab File: VY021707.D
Acq: 28 Mar 2025 21:06

Tgt Ion: 56 Resp: 1737
Ion Ratio Lower Upper
56 100
69 117.8 26.6 40.0#
84 89.6 69.0 103.4





#33

1,2-Dichloroethane-d4

Concen: 43.049 ug/l

RT: 8.061 min Scan# 1104

Delta R.T. -0.000 min

Lab File: VY021707.D

Acq: 28 Mar 2025 21:06

Instrument :

MSVOA_Y

ClientSampleId :

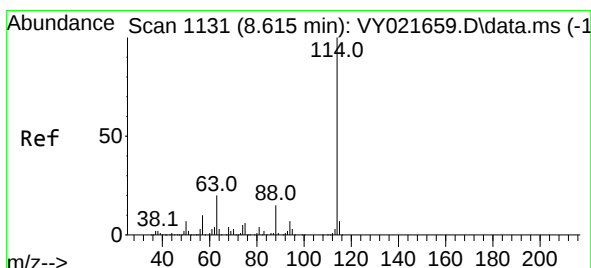
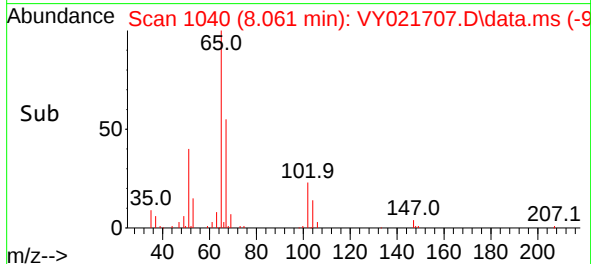
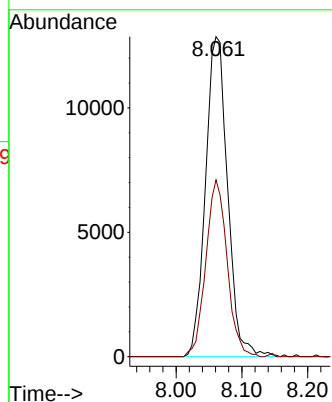
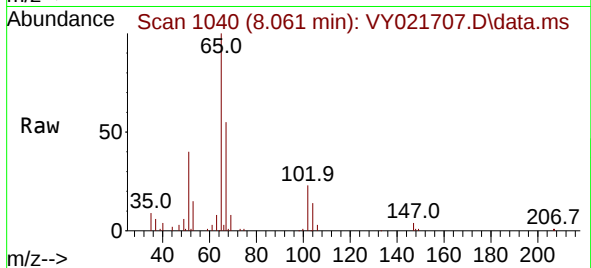
72-11998

Tgt Ion: 65 Resp: 30072

Ion Ratio Lower Upper

65 100

67 53.2 0.0 104.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.615 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VY021707.D

Acq: 28 Mar 2025 21:06

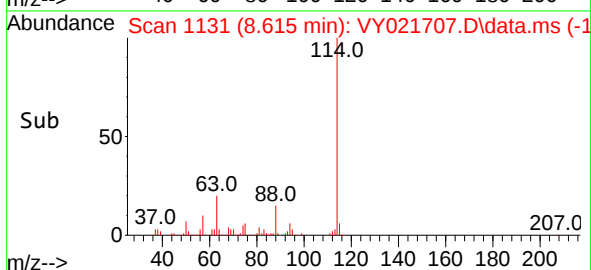
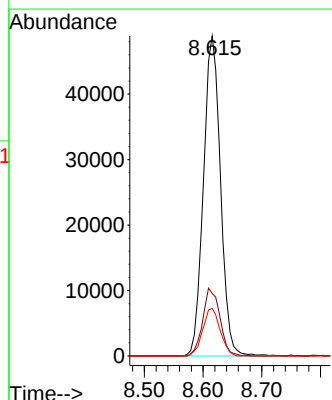
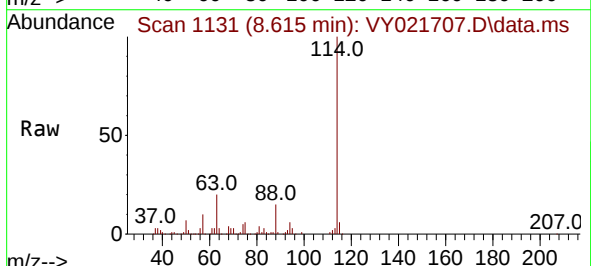
Tgt Ion: 114 Resp: 98526

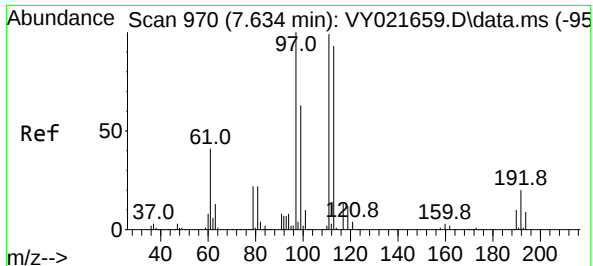
Ion Ratio Lower Upper

114 100

63 19.6 0.0 40.2

88 14.9 0.0 29.8

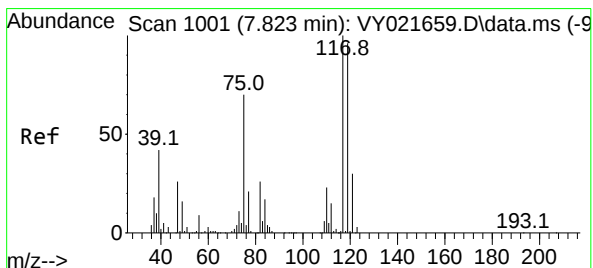
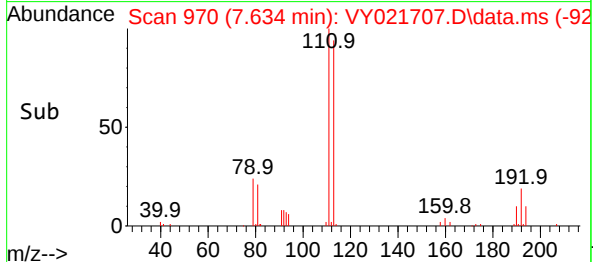
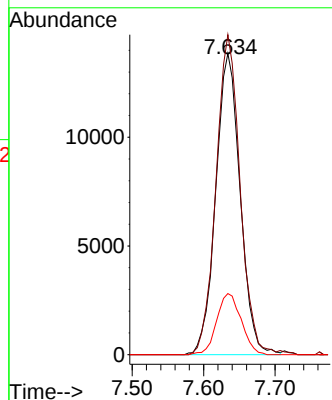
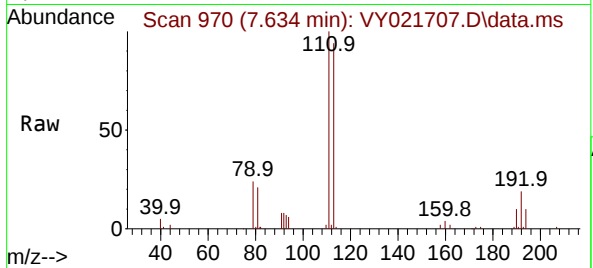




#35
Dibromofluoromethane
Concen: 51.322 ug/l
RT: 7.634 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY021707.D
Acq: 28 Mar 2025 21:06

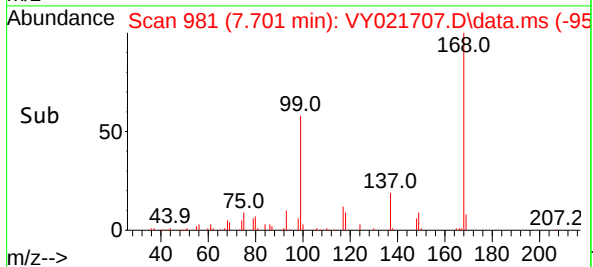
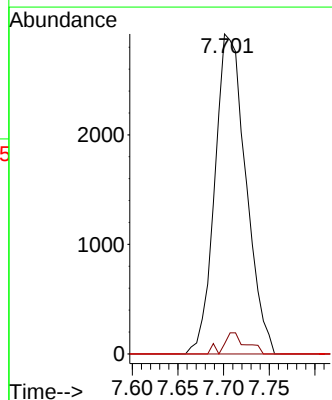
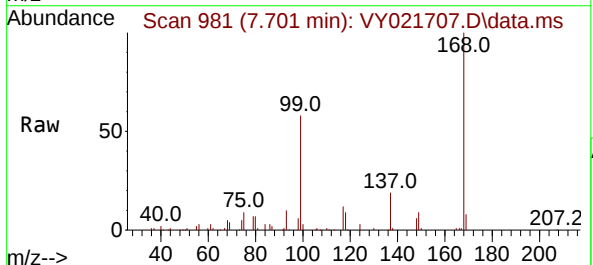
Instrument :
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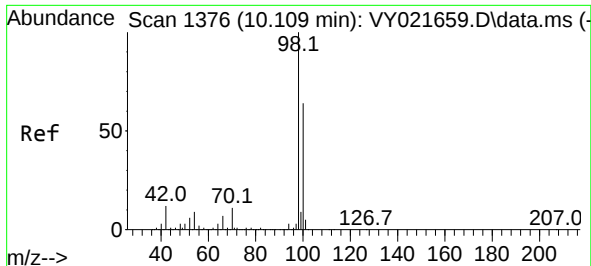
Tgt Ion:113 Resp: 32801
Ion Ratio Lower Upper
113 100
111 105.1 82.6 123.8
192 20.4 16.2 24.4



#38
Carbon Tetrachloride
Concen: 6.187 ug/l
RT: 7.701 min Scan# 981
Delta R.T. -0.122 min
Lab File: VY021707.D
Acq: 28 Mar 2025 21:06

Tgt Ion:117 Resp: 6898
Ion Ratio Lower Upper
117 100
119 3.1 76.2 114.4#
121 0.0 24.2 36.4#

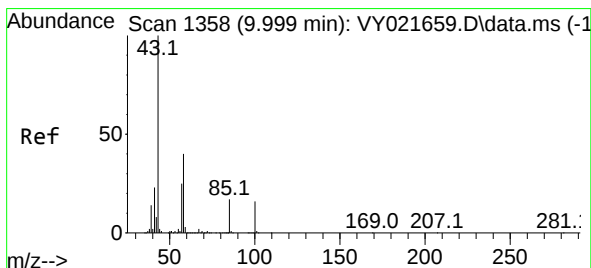
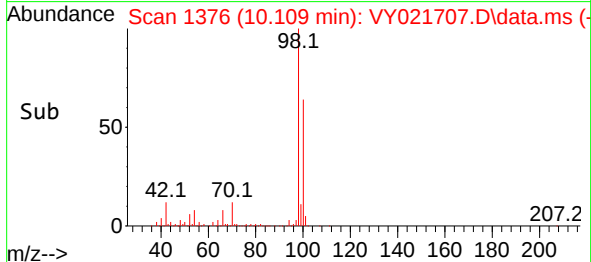
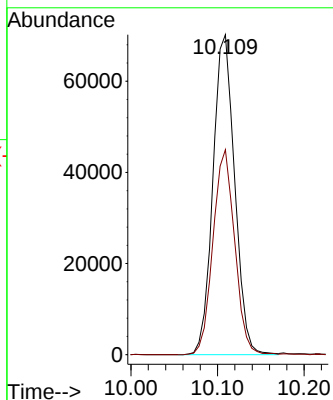
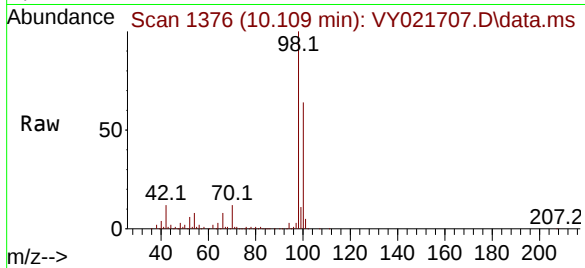




#50
Toluene-d8
Concen: 50.346 ug/l
RT: 10.109 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY021707.D
Acq: 28 Mar 2025 21:06

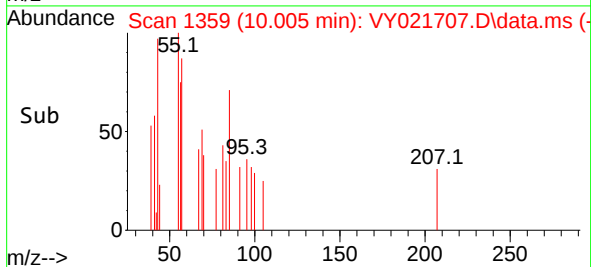
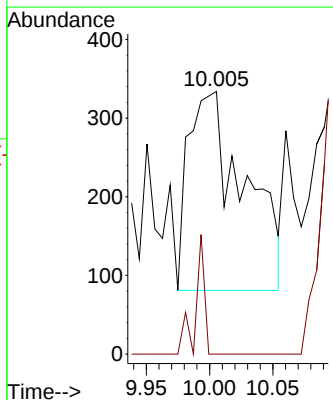
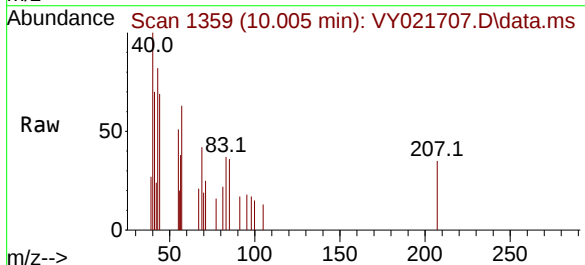
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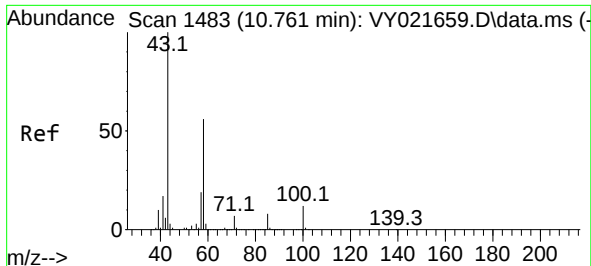
Tgt Ion: 98 Resp: 122411
Ion Ratio Lower Upper
98 100
100 64.2 52.1 78.1



#51
4-Methyl-2-Pentanone
Concen: 1.715 ug/l
RT: 10.005 min Scan# 1359
Delta R.T. 0.006 min
Lab File: VY021707.D
Acq: 28 Mar 2025 21:06

Tgt Ion: 43 Resp: 777
Ion Ratio Lower Upper
43 100
58 9.7 31.5 47.3#

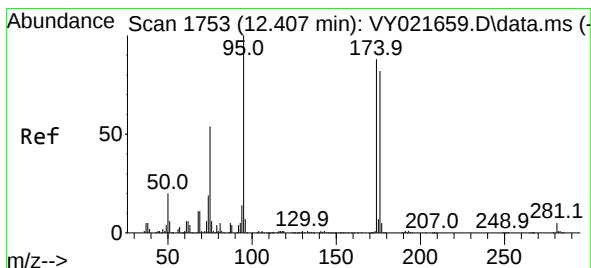
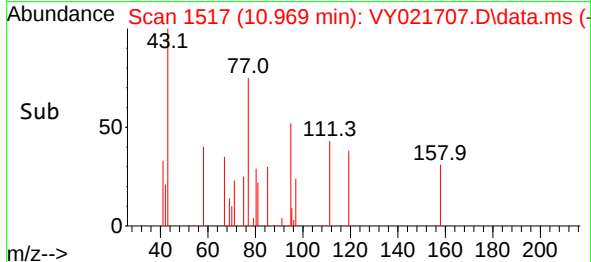
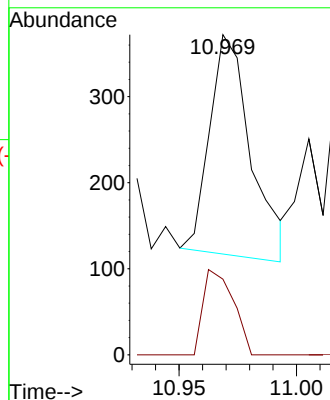
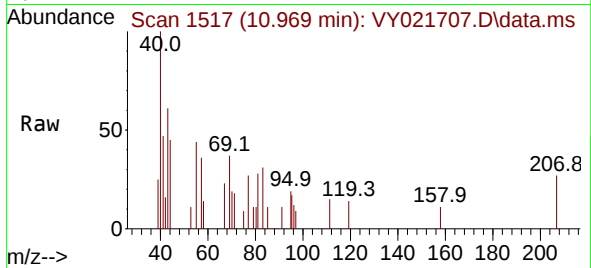




#59
2-Hexanone
Concen: 1.031 ug/l
RT: 10.969 min Scan# 11
Delta R.T. 0.207 min
Lab File: VY021707.D
Acq: 28 Mar 2025 21:06

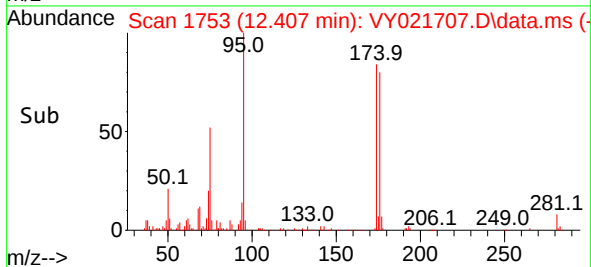
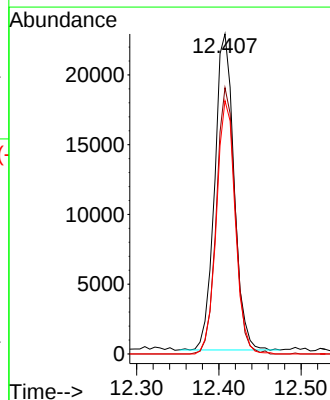
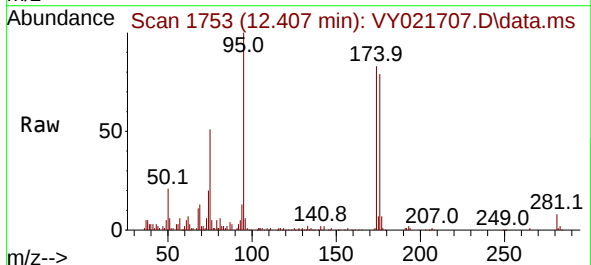
Instrument :
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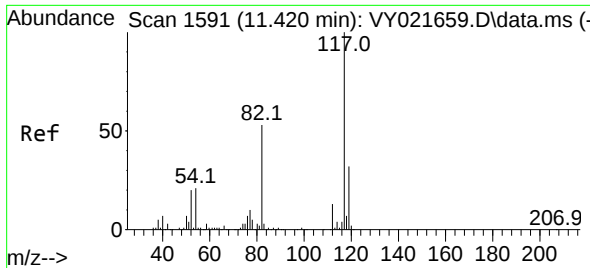
Tgt Ion: 43 Resp: 311
Ion Ratio Lower Upper
43 100
58 28.3 27.2 81.5



#62
4-Bromofluorobenzene
Concen: 45.178 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. -0.000 min
Lab File: VY021707.D
Acq: 28 Mar 2025 21:06

Tgt Ion: 95 Resp: 37155
Ion Ratio Lower Upper
95 100
174 81.7 0.0 170.8
176 77.8 0.0 162.0

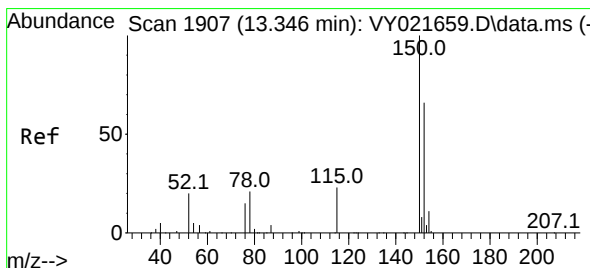
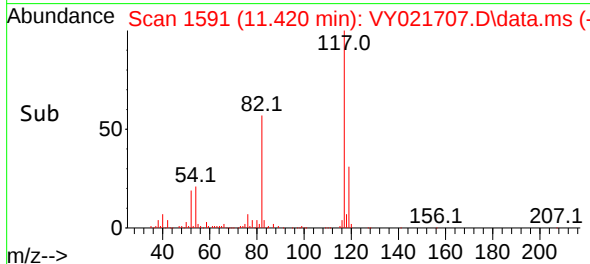
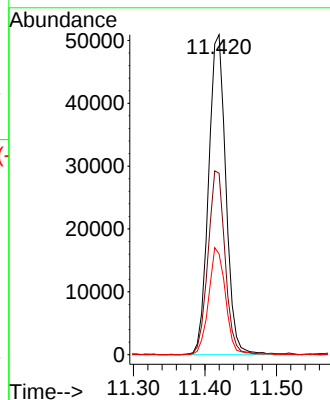
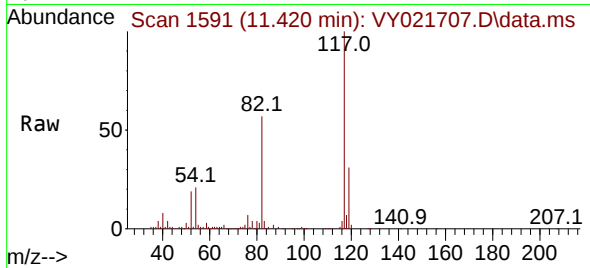




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1170
Delta R.T. -0.000 min
Lab File: VY021707.D
Acq: 28 Mar 2025 21:06

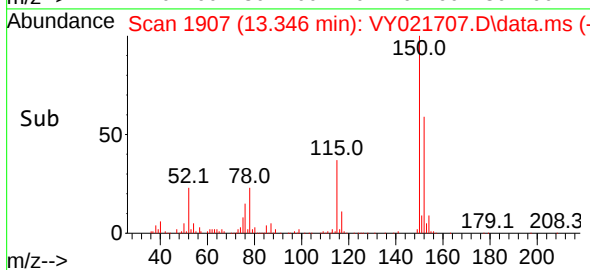
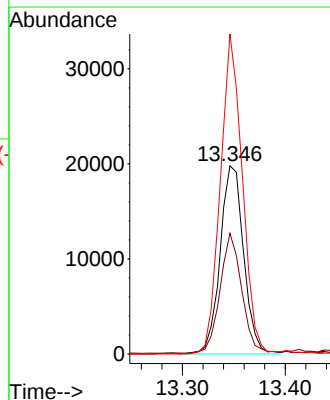
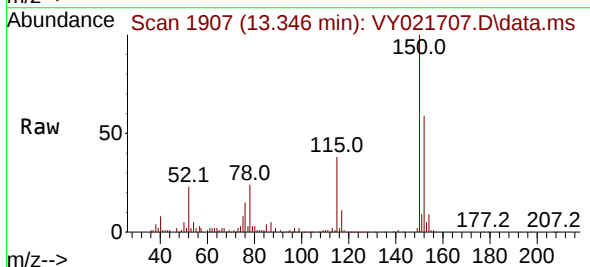
Instrument :
MSVOA_Y
ClientSampleId :
72-11998

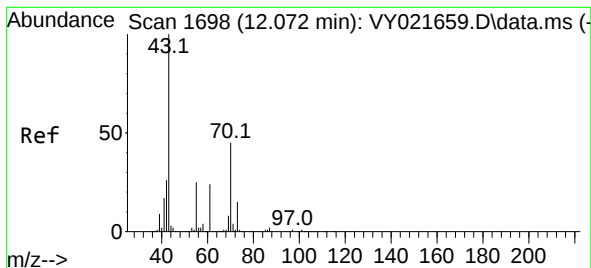
Tgt Ion:	117	Resp:	85509
Ion Ratio	Lower	Upper	
117	100		
82	56.7	42.8	64.2
119	31.5	25.7	38.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY021707.D
Acq: 28 Mar 2025 21:06

Tgt Ion:	152	Resp:	31489
Ion Ratio	Lower	Upper	
152	100		
115	58.8	28.8	86.5
150	158.2	0.0	348.4





#74

N-amy1 acetate

Concen: 67.066 ug/l

RT: 12.255 min Scan# 1

Delta R.T. 0.183 min

Lab File: VY021707.D

Acq: 28 Mar 2025 21:06

Instrument :

MSVOA_Y

ClientSampleId :

72-11998

Tgt Ion: 43 Resp: 36812

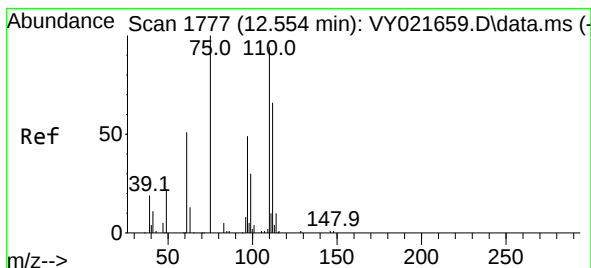
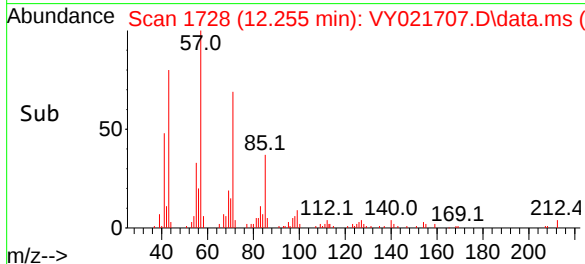
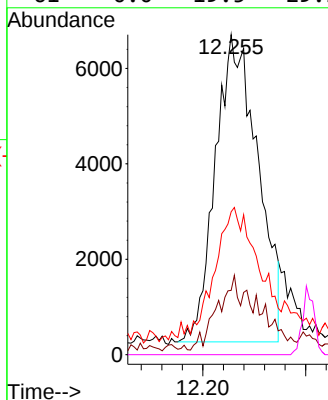
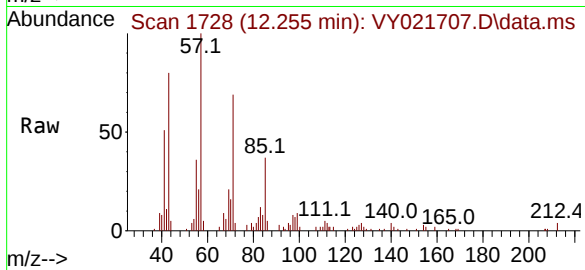
Ion Ratio Lower Upper

43 100

70 12.3 34.7 52.1#

55 40.2 21.2 31.8#

61 0.0 19.5 29.3#



#76

1,2,3-Trichloropropane

Concen: 63.248 ug/l

RT: 12.407 min Scan# 1753

Delta R.T. -0.146 min

Lab File: VY021707.D

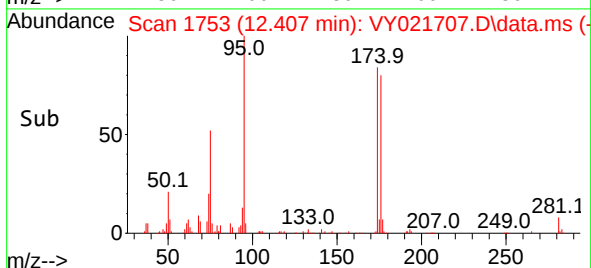
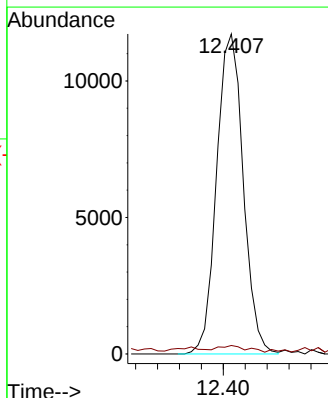
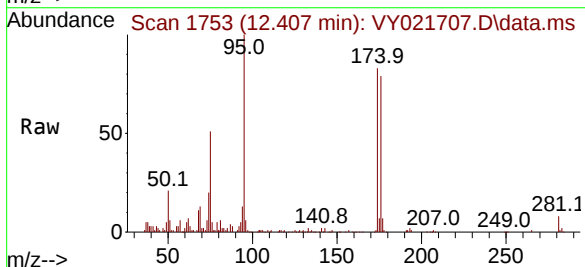
Acq: 28 Mar 2025 21:06

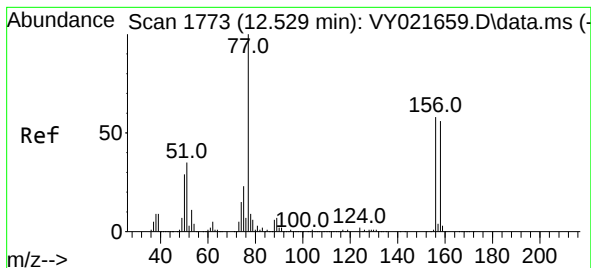
Tgt Ion: 75 Resp: 19742

Ion Ratio Lower Upper

75 100

77 2.1 0.0 0.0#





#77

Bromobenzene

Concen: 25.524 ug/l

RT: 12.627 min Scan# 1753

Delta R.T. 0.097 min

Lab File: VY021707.D

Acq: 28 Mar 2025 21:06

Instrument :

MSVOA_Y

ClientSampleId :

72-11998

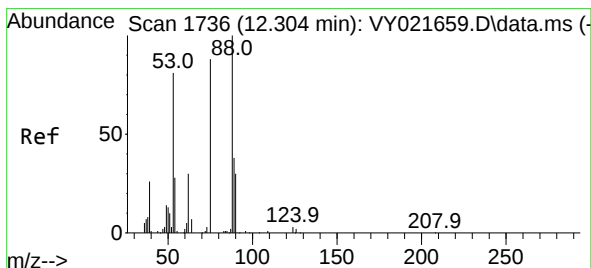
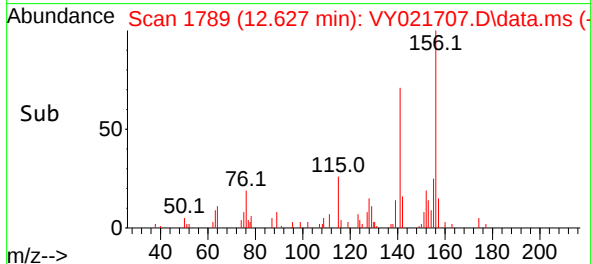
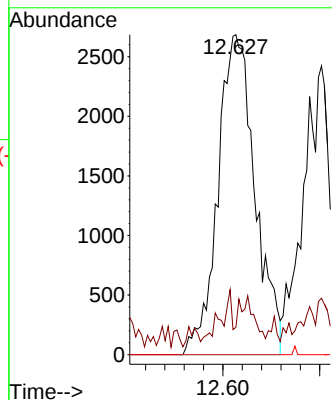
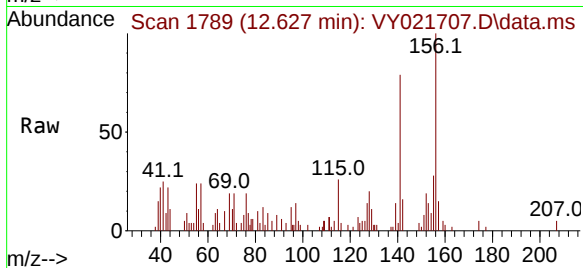
Tgt Ion:156 Resp: 14333

Ion Ratio Lower Upper

156 100

77 1.4 92.8 278.3#

158 0.0 48.5 145.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 145.734 ug/l

RT: 12.407 min Scan# 1753

Delta R.T. 0.104 min

Lab File: VY021707.D

Acq: 28 Mar 2025 21:06

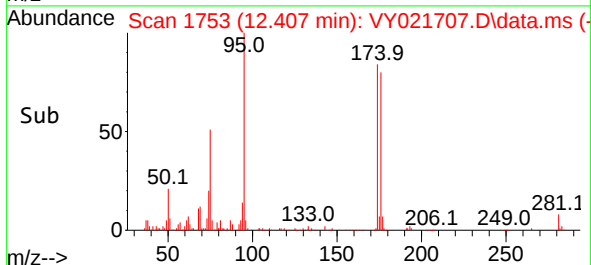
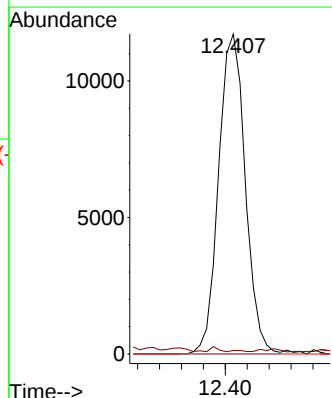
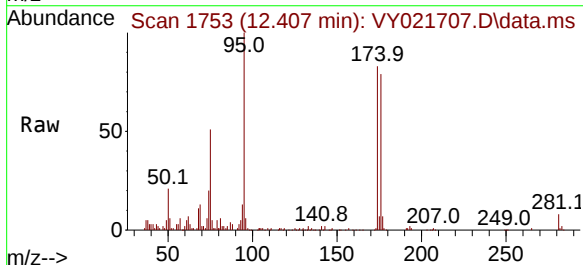
Tgt Ion: 75 Resp: 19742

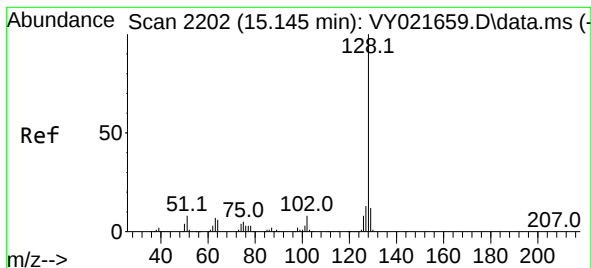
Ion Ratio Lower Upper

75 100

53 0.5 76.1 114.1#

89 0.0 36.2 54.4#





#95

Naphthalene

Concen: 21.201 ug/l

RT: 15.145 min Scan# 21

Delta R.T. -0.000 min

Lab File: VY021707.D

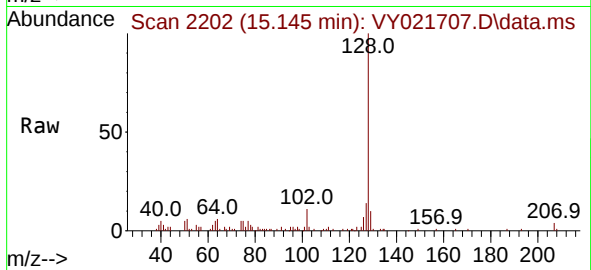
Acq: 28 Mar 2025 21:06

Instrument :

MSVOA_Y

ClientSampleId :

72-11998



Tgt Ion:128 Resp: 18354

Ion Ratio Lower Upper

128 100

127 14.1 10.8 16.2

129 11.0 8.8 13.2

