

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012325\
 Data File : VX044703.D
 Acq On : 23 Jan 2025 10:54
 Operator : JC/MD
 Sample : Q1145-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jan 24 03:15:24 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X011625W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jan 17 01:21:41 2025
 Response via : Initial Calibration

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

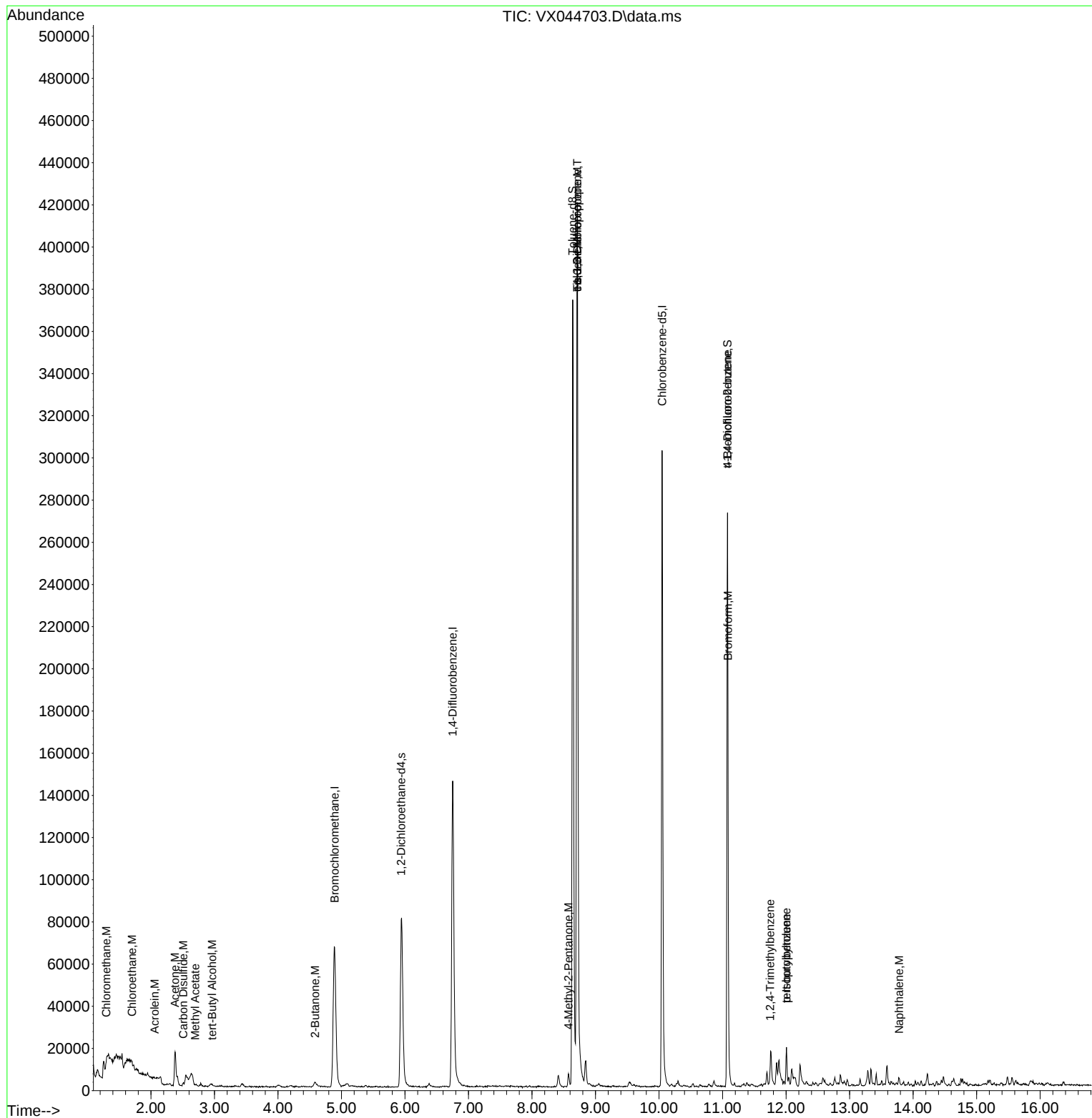
Internal Standards						
1) Bromochloromethane	4.891	128	28687	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.751	114	160245	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	140501	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.940	65	74886	27.040	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	90.133%#
60) 4-Bromofluorobenzene	11.079	95	80502	29.499	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	98.333%
63) Toluene-d8	8.641	98	235478	30.814	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	102.700%
Target Compounds						
					Qvalue	
3) Chloromethane	1.294	50	666	0.248	ug/l	90
6) Chloroethane	1.703	64	1918	4.608	ug/l #	61
12) Methyl Acetate	2.697	43	788	0.255	ug/l	94
13) Acrolein	2.056	56	108	0.316	ug/l	85
15) Acetone	2.380	58	6157	20.356	ug/l	98
16) Carbon Disulfide	2.508	76	1959	0.333	ug/l	99
23) tert-Butyl Alcohol	2.965	59	330	0.605	ug/l #	100
30) 2-Butanone	4.587	43	2881	1.882	ug/l #	92
48) t-1,3-Dichloropropene	8.714	75	1817	0.506	ug/l #	1
49) cis-1,3-Dichloropropene	8.714	75	1817	0.472	ug/l #	1
56) Bromoform	11.085	173	378	0.225	ug/l #	1
58) 4-Methyl-2-Pentanone	8.574	43	4551	1.537	ug/l #	87
62) Toluene	8.714	91	297500	32.157	ug/l	97
77) t-1,4-Dichloro-2-butene	11.079	75	39434	31.474	ug/l #	13
79) tert-butylbenzene	12.006	119	7853	1.005	ug/l	66
80) 1,2,4-Trimethylbenzene	11.750	105	2572	0.335	ug/l	96
82) p-Isopropyltoluene	12.006	119	7853	1.023	ug/l	98
91) Naphthalene	13.780	128	2828	0.314	ug/l	97

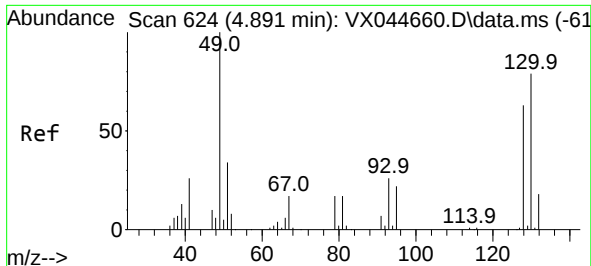
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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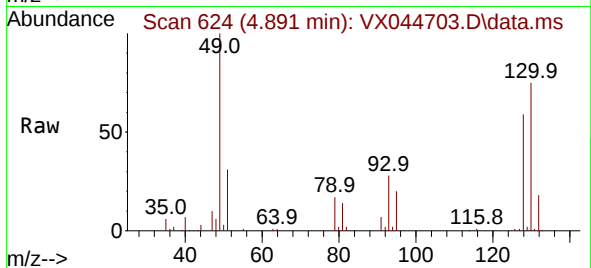
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X011625W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Jan 17 01:21:41 2025
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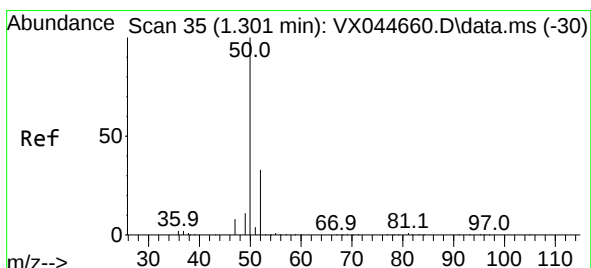
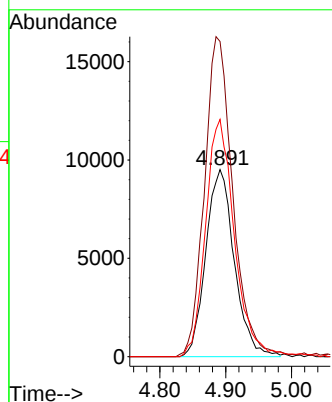
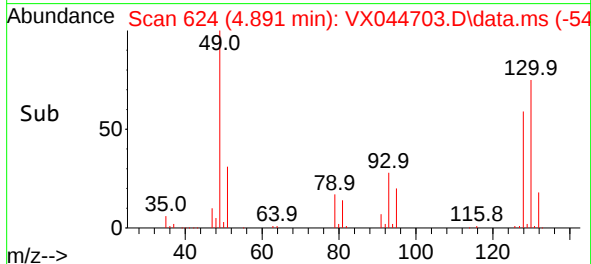


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.891 min Scan# 61
Delta R.T. 0.000 min
Lab File: VX044703.D
Acq: 23 Jan 2025 10:54

Instrument :
MSVOA_X
ClientSampleId :

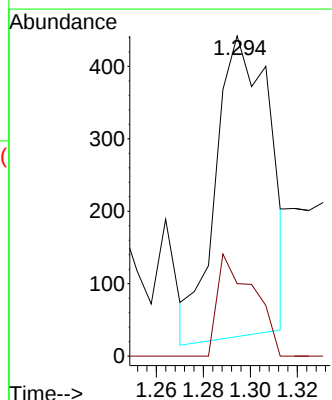
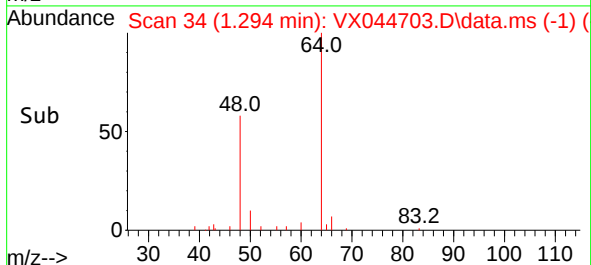
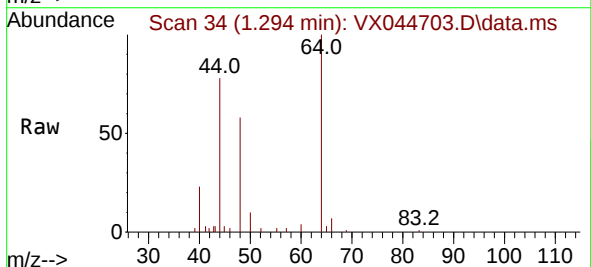


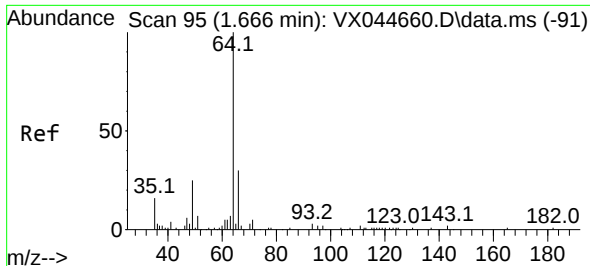
Tgt Ion:128 Resp: 28687
Ion Ratio Lower Upper
128 100
49 170.0 0.0 411.5
130 126.7 0.0 324.3



#3
Chloromethane
Concen: 0.248 ug/l
RT: 1.294 min Scan# 34
Delta R.T. -0.006 min
Lab File: VX044703.D
Acq: 23 Jan 2025 10:54

Tgt Ion: 50 Resp: 666
Ion Ratio Lower Upper
50 100
52 27.2 26.5 39.7

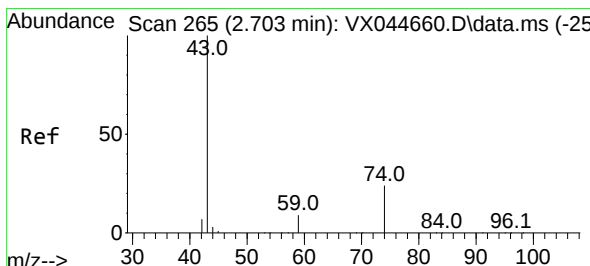
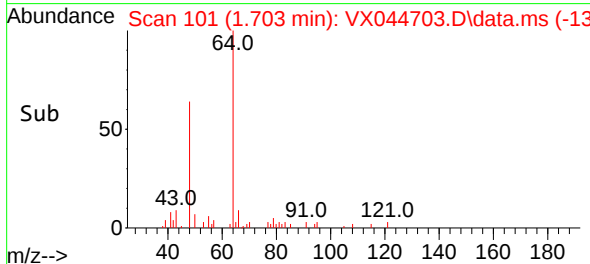
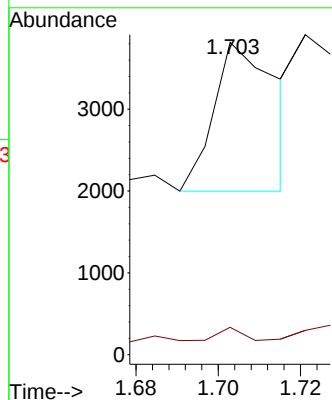
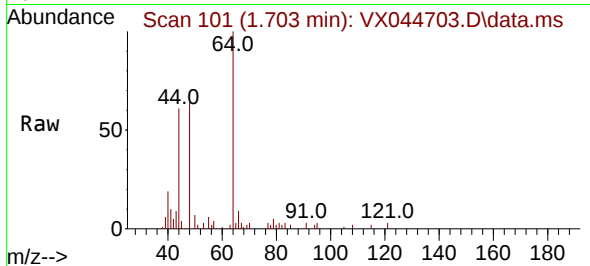




#6
Chloroethane
Concen: 4.608 ug/l
RT: 1.703 min Scan# 101
Delta R.T. 0.037 min
Lab File: VX044703.D
Acq: 23 Jan 2025 10:54

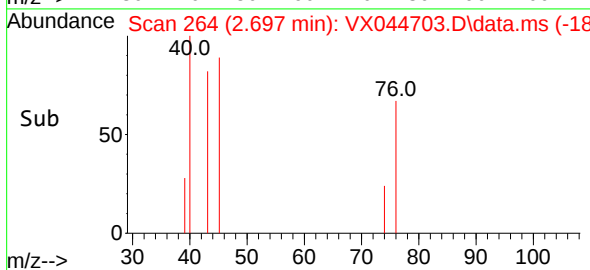
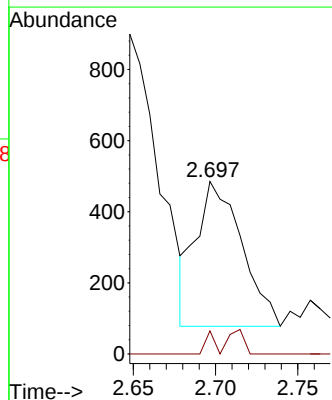
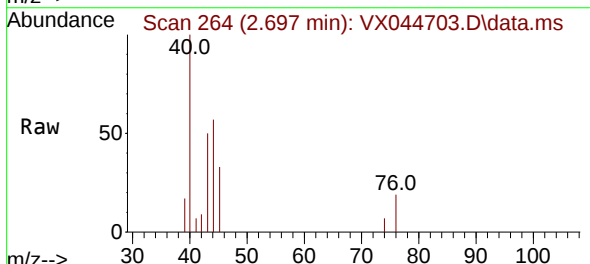
Instrument :
MSVOA_X
ClientSampleId :

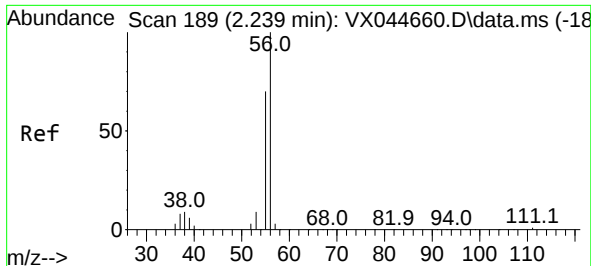
Tgt Ion: 64 Resp: 1918
Ion Ratio Lower Upper
64 100
66 8.9 23.8 35.6#



#12
Methyl Acetate
Concen: 0.255 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX044703.D
Acq: 23 Jan 2025 10:54

Tgt Ion: 43 Resp: 788
Ion Ratio Lower Upper
43 100
74 21.1 19.4 29.2

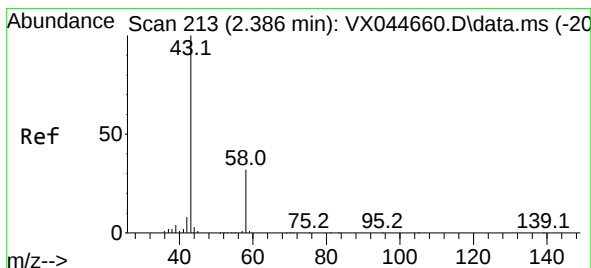
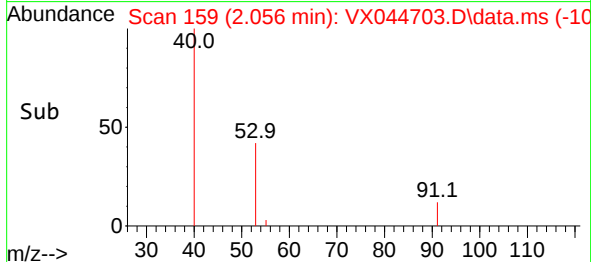
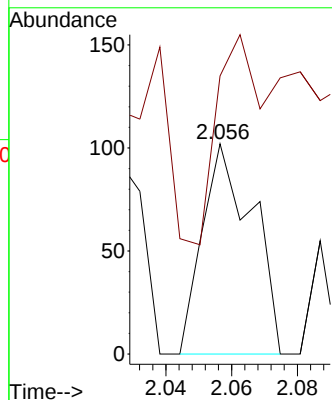
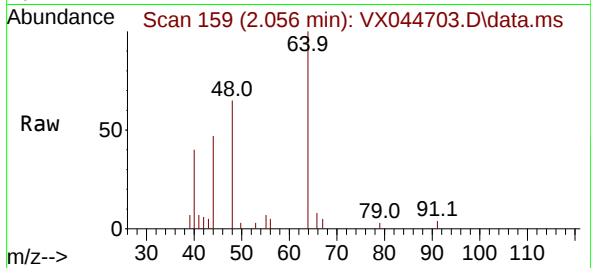




#13
Acrolein
Concen: 0.316 ug/l
RT: 2.056 min Scan# 11
Delta R.T. -0.183 min
Lab File: VX044703.D
Acq: 23 Jan 2025 10:54

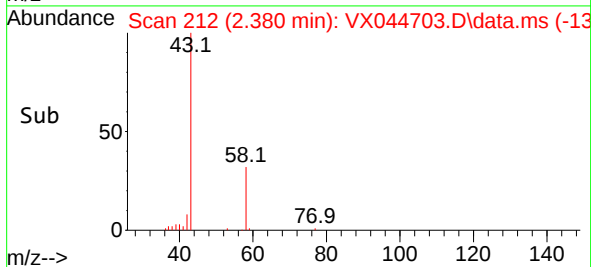
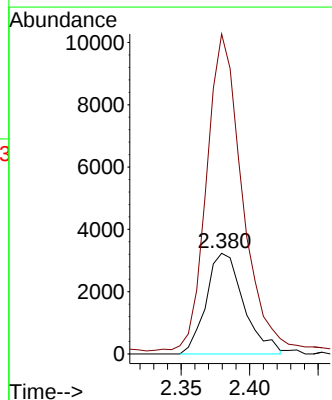
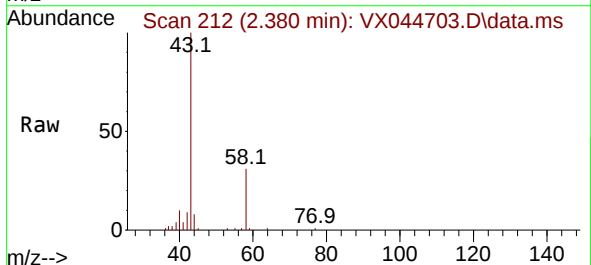
Instrument :
MSVOA_X
ClientSampleId :

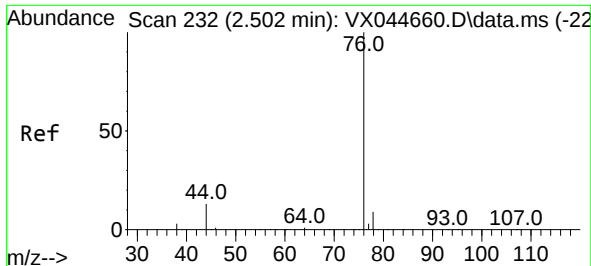
Tgt Ion: 56 Resp: 108
Ion Ratio Lower Upper
56 100
55 84.3 57.5 86.3



#15
Acetone
Concen: 20.356 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX044703.D
Acq: 23 Jan 2025 10:54

Tgt Ion: 58 Resp: 6157
Ion Ratio Lower Upper
58 100
43 309.7 251.0 376.4

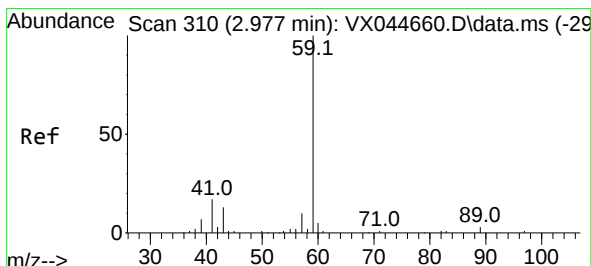
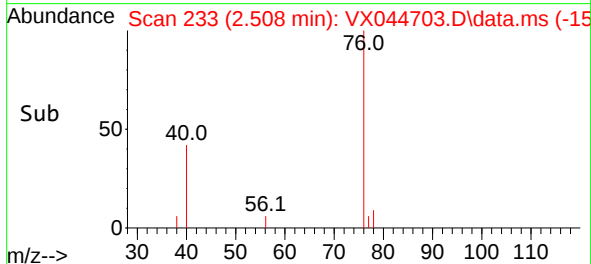
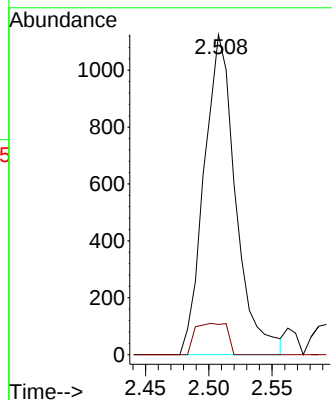
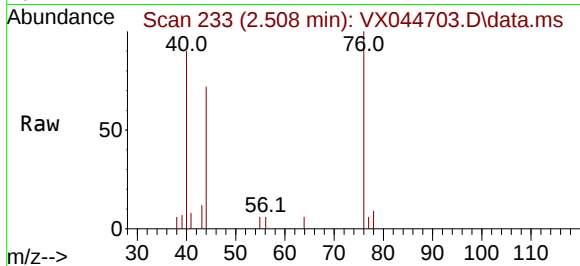




#16
Carbon Disulfide
Concen: 0.333 ug/l
RT: 2.508 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX044703.D
Acq: 23 Jan 2025 10:54

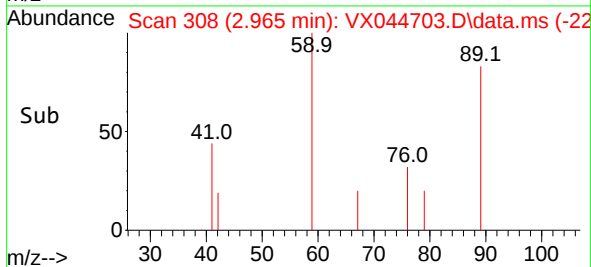
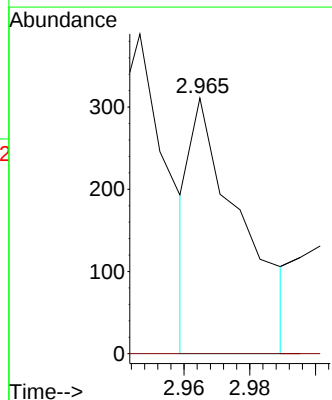
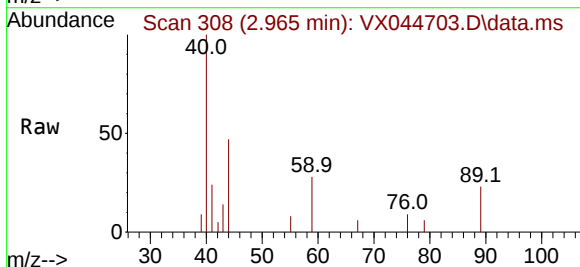
Instrument :
MSVOA_X
ClientSampleId :

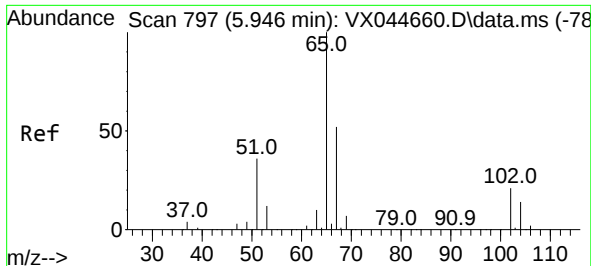
Tgt Ion: 76 Resp: 1959
Ion Ratio Lower Upper
76 100
78 9.4 7.3 10.9



#23
tert-Butyl Alcohol
Concen: 0.605 ug/l
RT: 2.965 min Scan# 308
Delta R.T. -0.012 min
Lab File: VX044703.D
Acq: 23 Jan 2025 10:54

Tgt Ion: 59 Resp: 330
Ion Ratio Lower Upper
59 100
52 0.0 0.1 0.1#





#27

1,2-Dichloroethane-d4

Concen: 27.040 ug/l

RT: 5.940 min Scan# 797

Delta R.T. -0.006 min

Lab File: VX044703.D

Acq: 23 Jan 2025 10:54

Instrument :

MSVOA_X

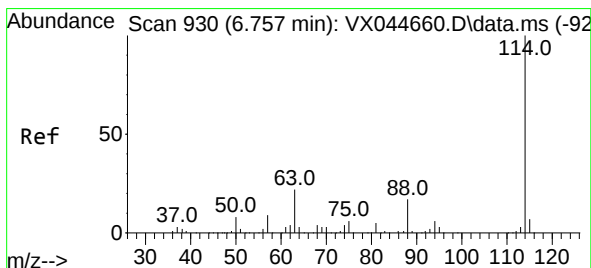
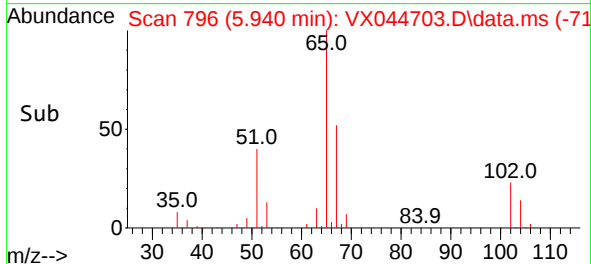
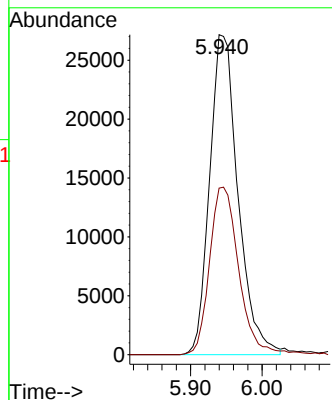
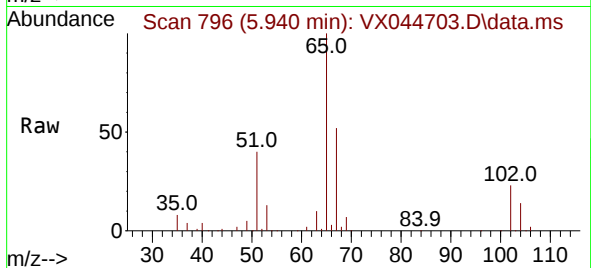
ClientSampleId :

Tgt Ion: 65 Resp: 74886

Ion Ratio Lower Upper

65 100

67 53.3 41.4 62.2



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.751 min Scan# 929

Delta R.T. -0.006 min

Lab File: VX044703.D

Acq: 23 Jan 2025 10:54

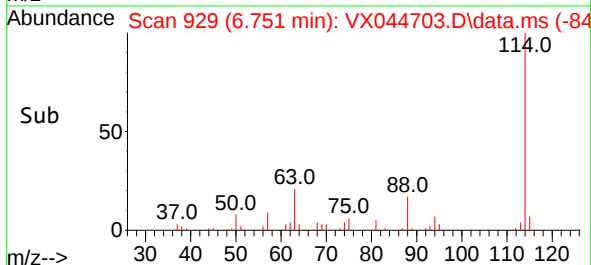
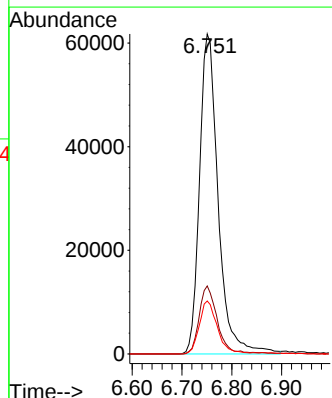
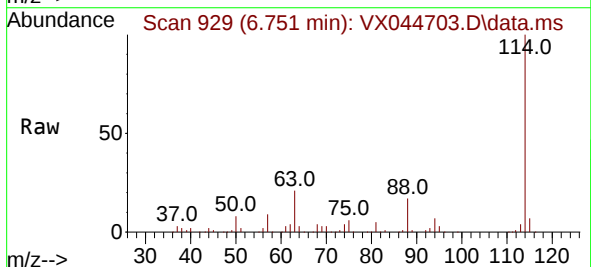
Tgt Ion: 114 Resp: 160245

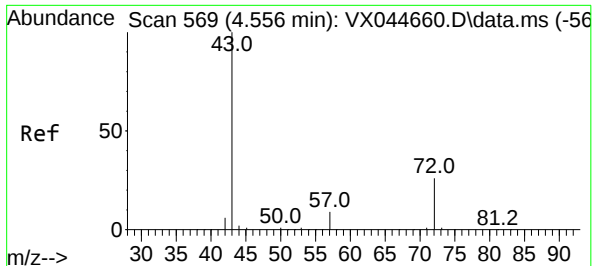
Ion Ratio Lower Upper

114 100

63 20.1 16.6 24.8

88 16.0 13.4 20.2





#30

2-Butanone

Concen: 1.882 ug/l

RT: 4.587 min Scan# 51

Delta R.T. 0.030 min

Lab File: VX044703.D

Acq: 23 Jan 2025 10:54

Instrument :

MSVOA_X

ClientSampleId :

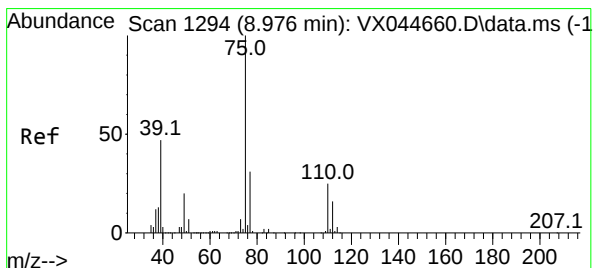
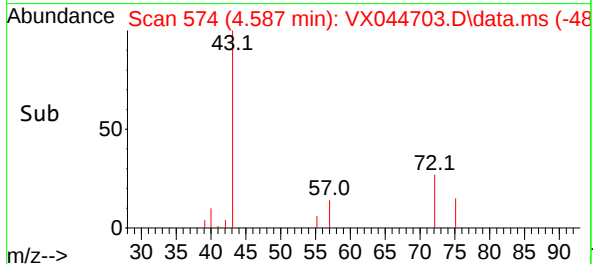
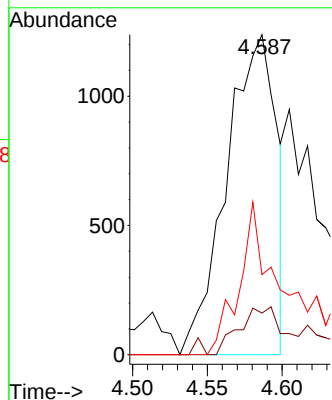
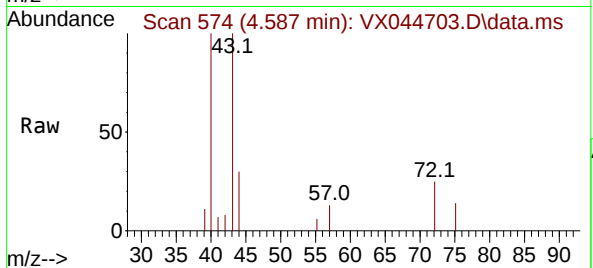
Tgt Ion: 43 Resp: 2881

Ion Ratio Lower Upper

43 100

57 6.0 6.4 9.6#

72 31.3 21.5 32.3



#48

t-1,3-Dichloropropene

Concen: 0.506 ug/l

RT: 8.714 min Scan# 1251

Delta R.T. -0.262 min

Lab File: VX044703.D

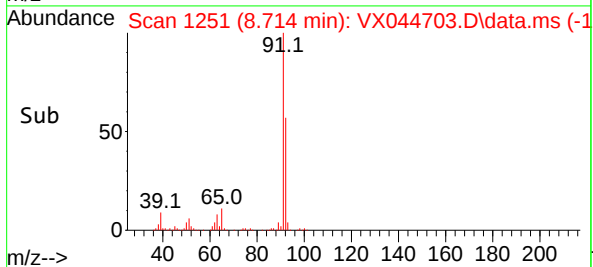
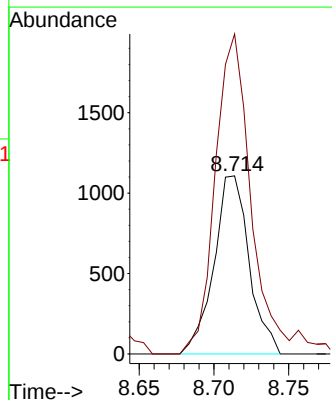
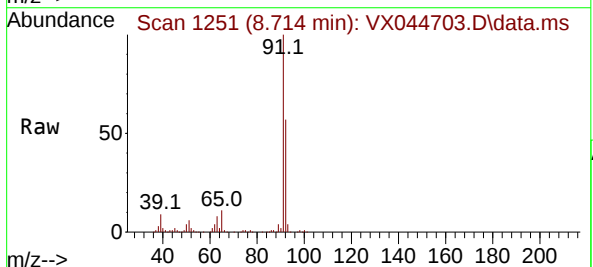
Acq: 23 Jan 2025 10:54

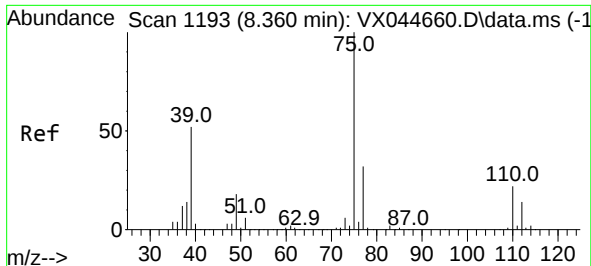
Tgt Ion: 75 Resp: 1817

Ion Ratio Lower Upper

75 100

77 179.8 24.8 37.2#





#49

cis-1,3-Dichloropropene

Concen: 0.472 ug/l

RT: 8.714 min Scan# 1

Delta R.T. 0.354 min MSVOA_X

Lab File: VX044703.D

Acq: 23 Jan 2025 10:54

Instrument :

MSVOA_X

ClientSampleId :

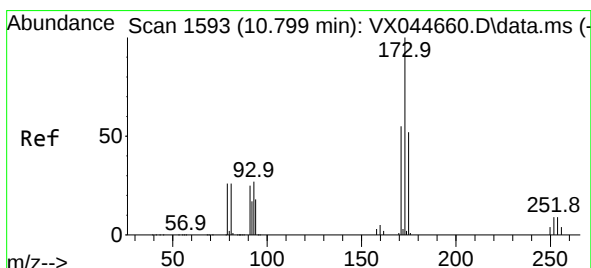
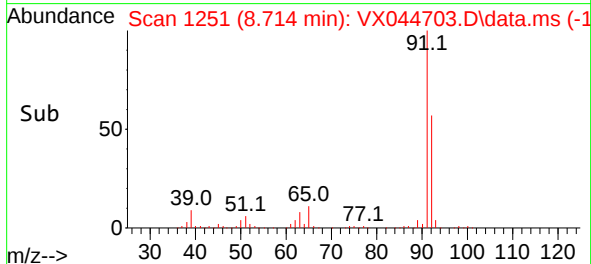
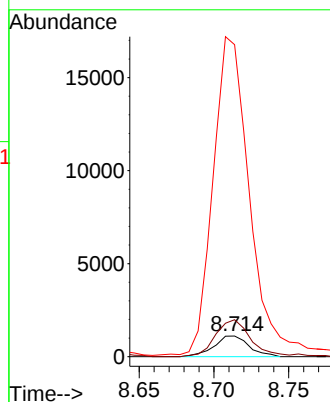
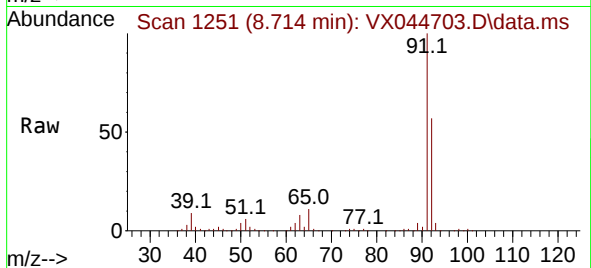
Tgt Ion: 75 Resp: 1817

Ion Ratio Lower Upper

75 100

77 179.8 25.4 38.0#

39 1504.7 41.4 62.0#



#56

Bromoform

Concen: 0.225 ug/l

RT: 11.085 min Scan# 1640

Delta R.T. 0.287 min

Lab File: VX044703.D

Acq: 23 Jan 2025 10:54

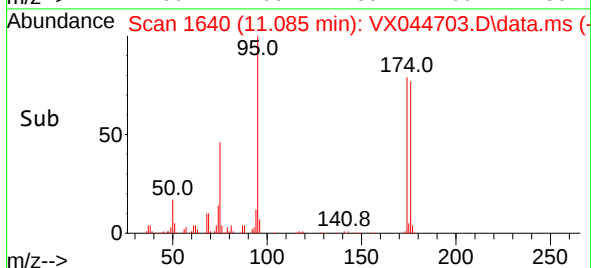
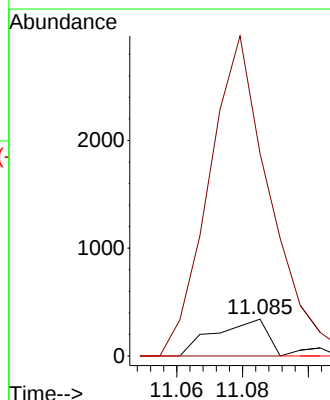
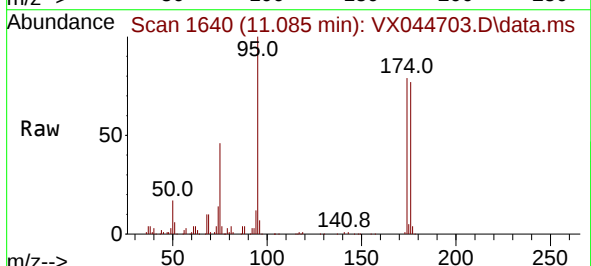
Tgt Ion: 173 Resp: 378

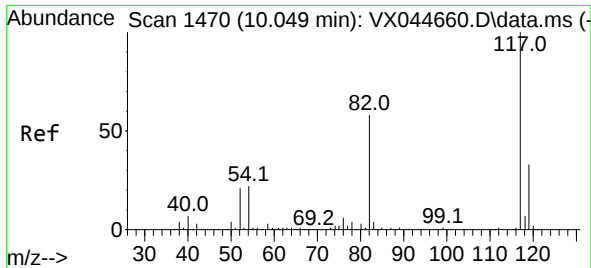
Ion Ratio Lower Upper

173 100

175 1011.9 39.0 58.6#

254 0.0 6.5 9.7#





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.049 min Scan# 1470

Delta R.T. -0.000 min

Lab File: VX044703.D

Acq: 23 Jan 2025 10:54

Instrument :

MSVOA_X

ClientSampleId :

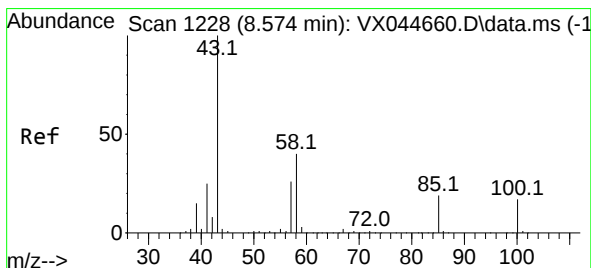
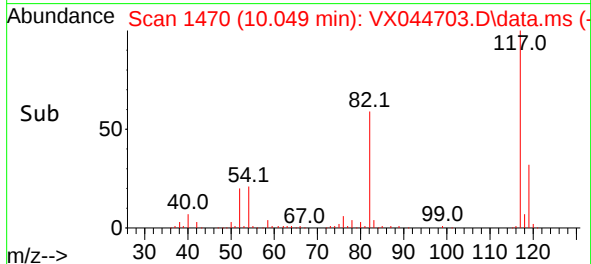
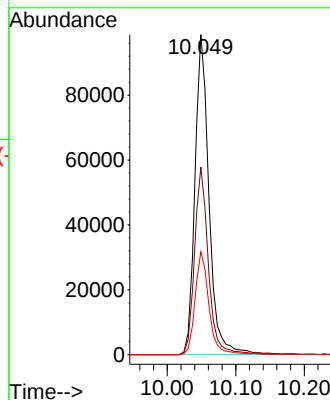
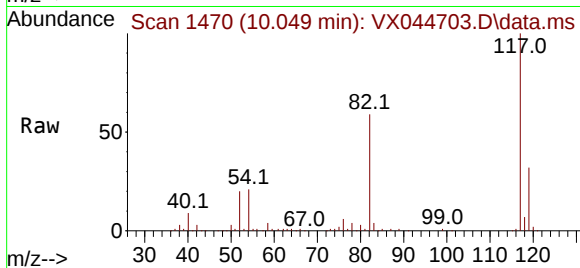
Tgt Ion:117 Resp: 140501

Ion Ratio Lower Upper

117 100

82 57.8 45.8 68.6

119 31.4 25.8 38.6



#58

4-Methyl-2-Pentanone

Concen: 1.537 ug/l

RT: 8.574 min Scan# 1228

Delta R.T. -0.000 min

Lab File: VX044703.D

Acq: 23 Jan 2025 10:54

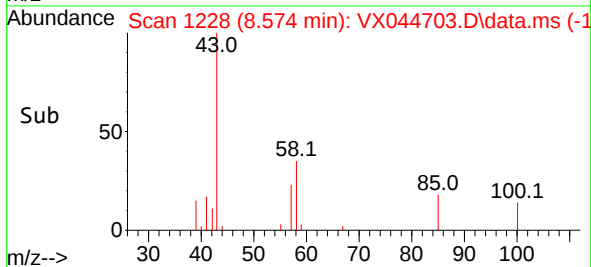
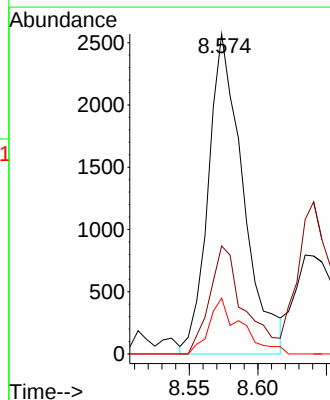
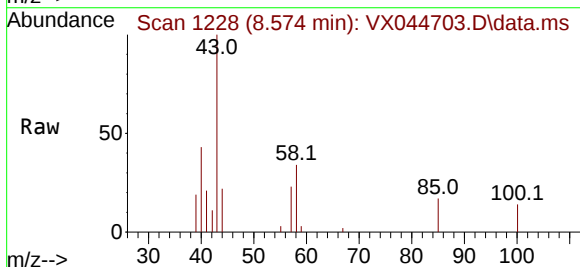
Tgt Ion: 43 Resp: 4551

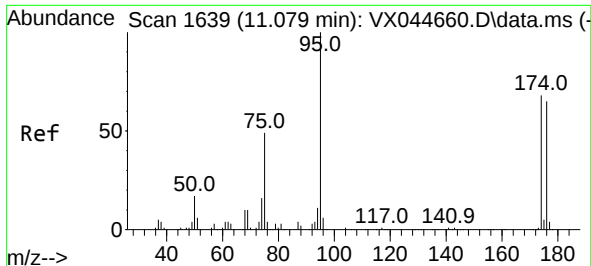
Ion Ratio Lower Upper

43 100

58 33.4 31.7 47.5

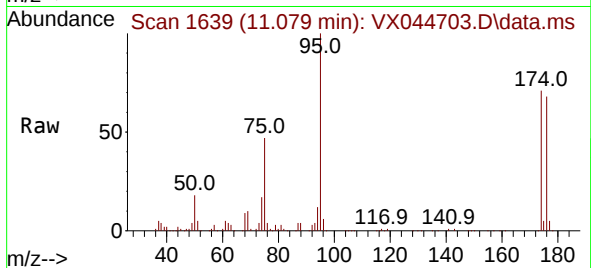
85 9.8 15.0 22.6#



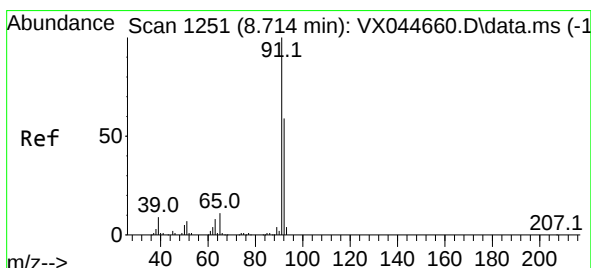
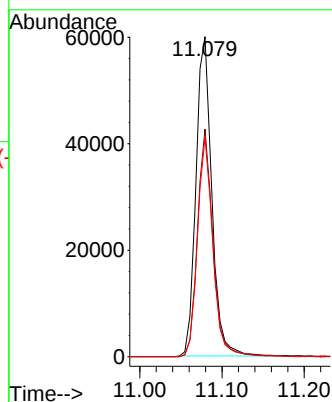
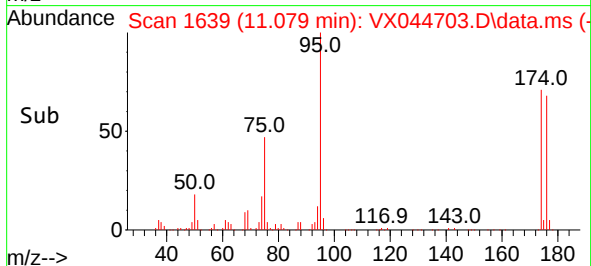


#60
4-Bromofluorobenzene
Concen: 29.499 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044703.D
Acq: 23 Jan 2025 10:54

Instrument :
MSVOA_X
ClientSampleId :

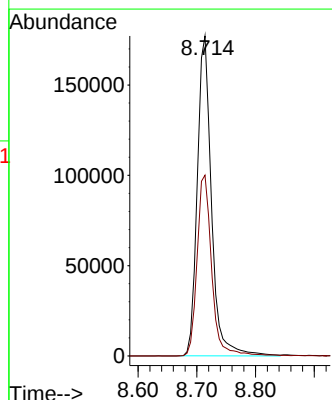
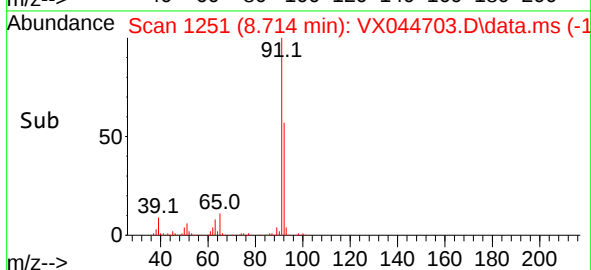
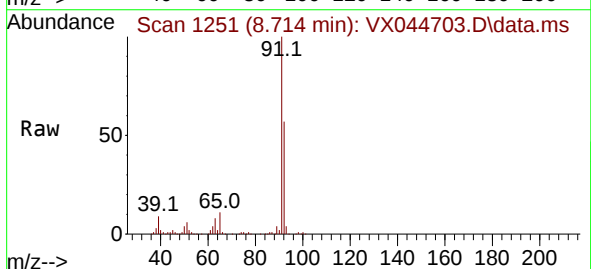


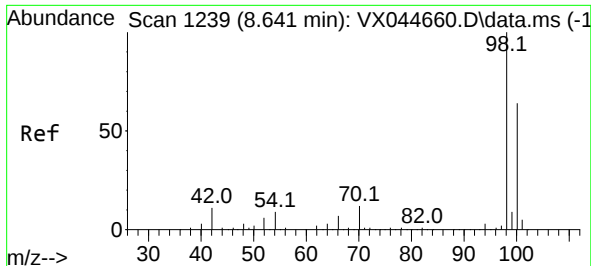
Tgt Ion: 95 Resp: 80502
Ion Ratio Lower Upper
95 100
174 69.5 54.6 81.8
176 66.5 52.8 79.2



#62
Toluene
Concen: 32.157 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX044703.D
Acq: 23 Jan 2025 10:54

Tgt Ion: 91 Resp: 297500
Ion Ratio Lower Upper
91 100
92 57.0 47.3 70.9

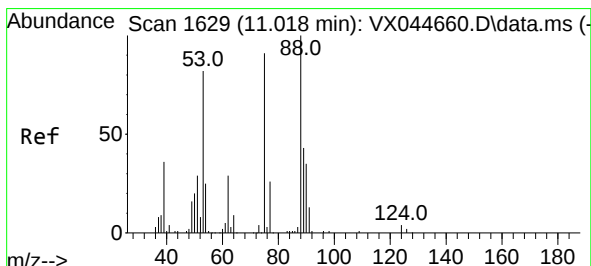
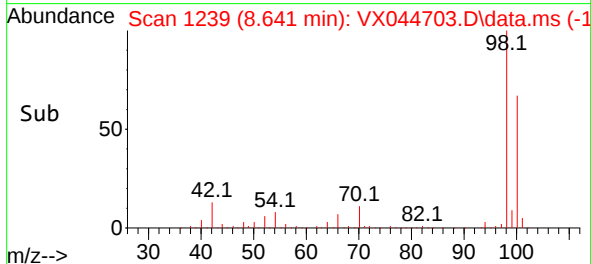
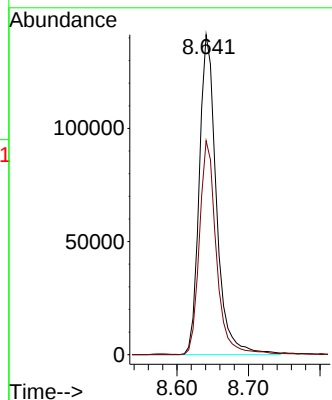
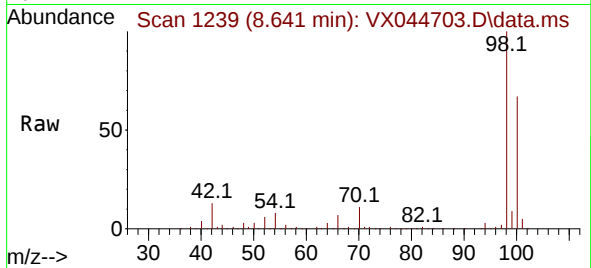




#63
Toluene-d8
Concen: 30.814 ug/l
RT: 8.641 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX044703.D
Acq: 23 Jan 2025 10:54

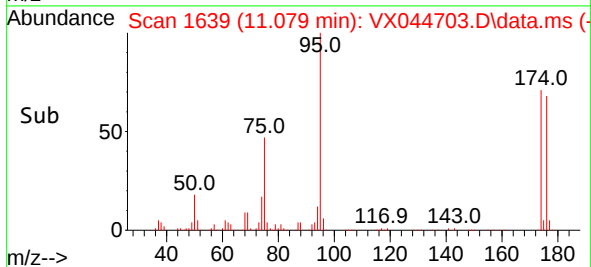
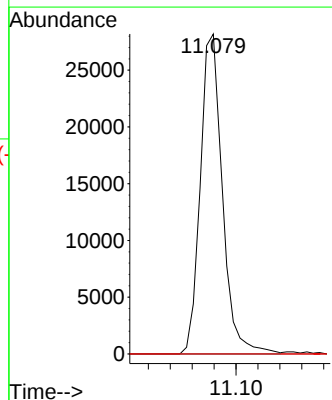
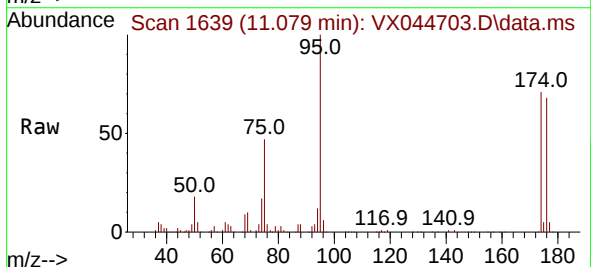
Instrument :
MSVOA_X
ClientSampleId :

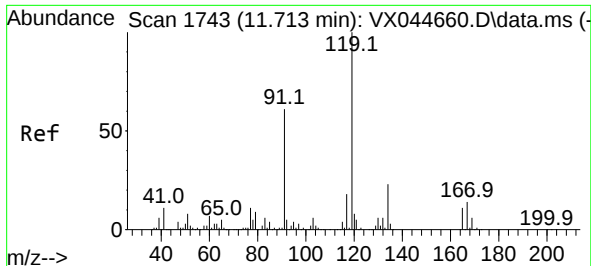
Tgt Ion: 98 Resp: 235478
Ion Ratio Lower Upper
98 100
100 66.1 53.6 80.4



#77
t-1,4-Dichloro-2-butene
Concen: 31.474 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX044703.D
Acq: 23 Jan 2025 10:54

Tgt Ion: 75 Resp: 39434
Ion Ratio Lower Upper
75 100
53 0.0 45.3 135.9#
89 0.0 23.8 71.2#

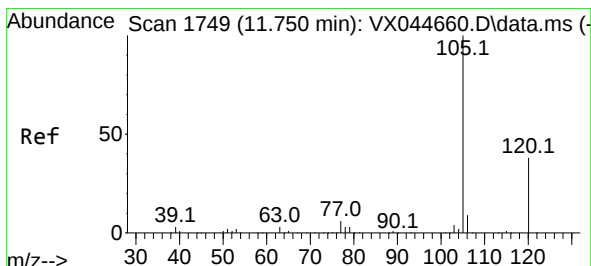
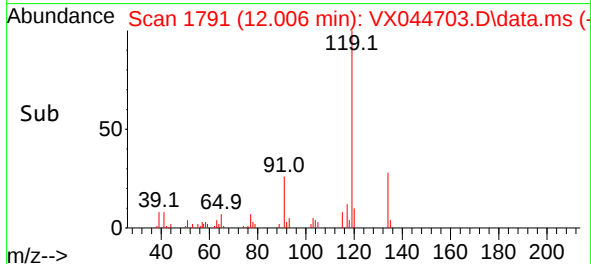
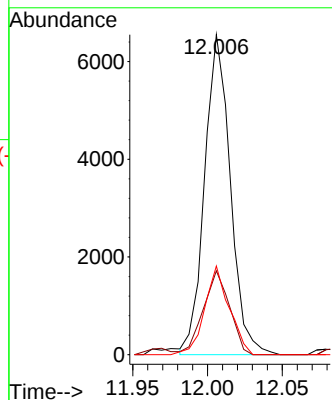
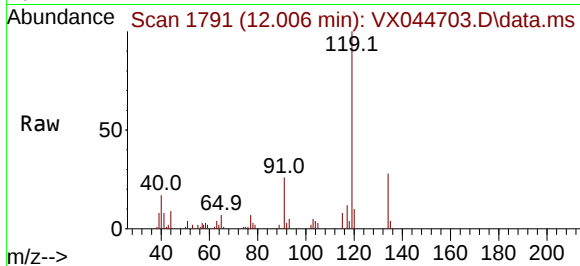




#79
tert-butylbenzene
Concen: 1.005 ug/l
RT: 12.006 min Scan# 11
Delta R.T. 0.293 min
Lab File: VX044703.D
Acq: 23 Jan 2025 10:54

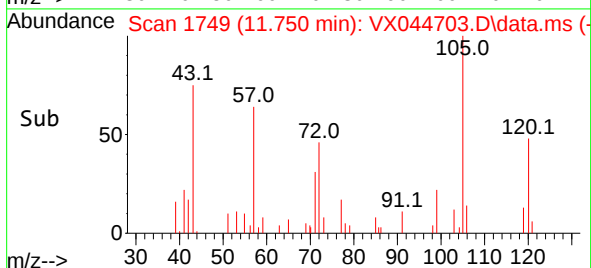
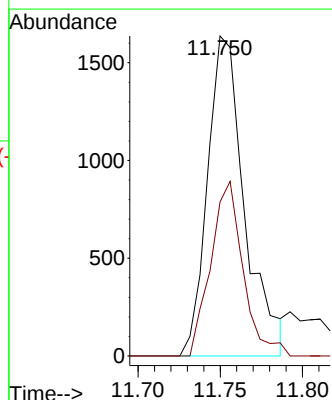
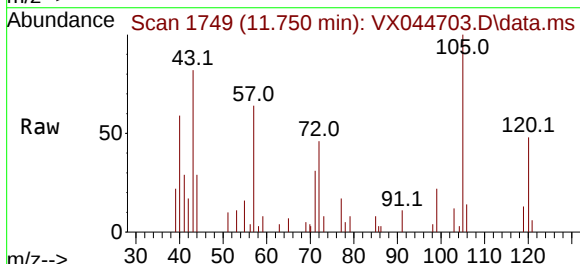
Instrument :
MSVOA_X
ClientSampleId :

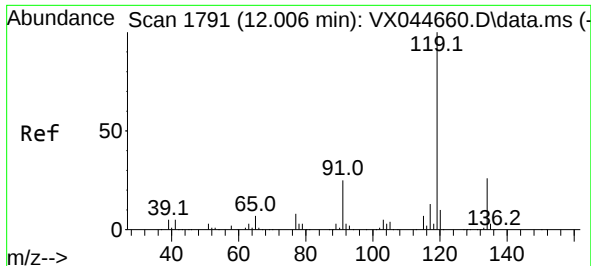
Tgt Ion:119 Resp: 7853
Ion Ratio Lower Upper
119 100
91 26.8 0.0 119.0
134 26.3 0.0 44.8



#80
1,2,4-Trimethylbenzene
Concen: 0.335 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX044703.D
Acq: 23 Jan 2025 10:54

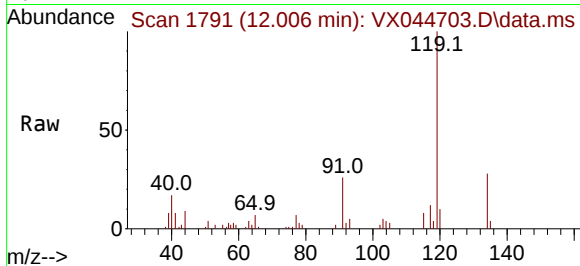
Tgt Ion:105 Resp: 2572
Ion Ratio Lower Upper
105 100
120 46.5 0.0 88.4



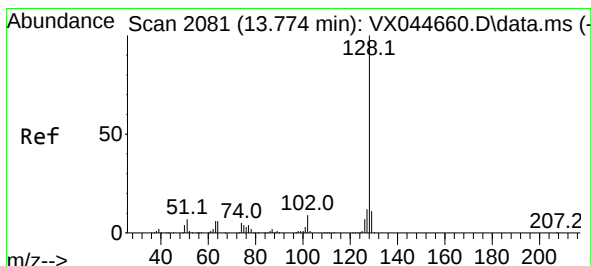
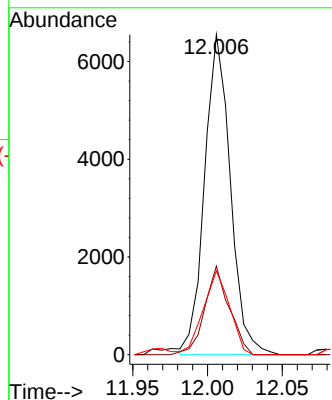
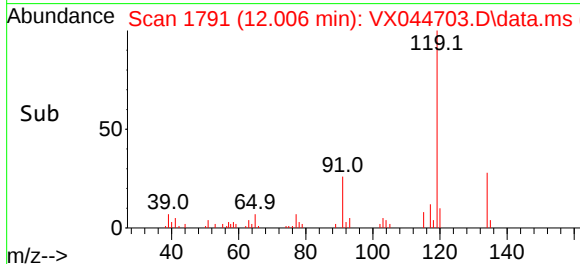


#82
p-Isopropyltoluene
Concen: 1.023 ug/l
RT: 12.006 min Scan# 119
Delta R.T. -0.000 min
Lab File: VX044703.D
Acq: 23 Jan 2025 10:54

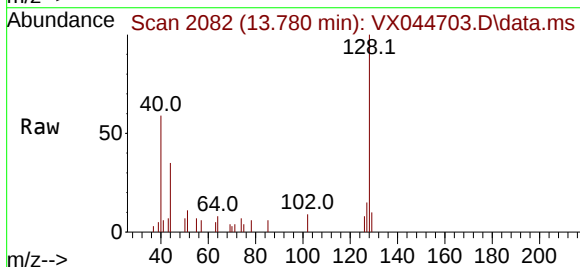
Instrument :
MSVOA_X
ClientSampleId :



Tgt Ion:	119	Resp:	7853
Ion	Ratio	Lower	Upper
119	100		
134	26.3	0.0	52.2
91	26.8	0.0	50.2



#91
Naphthalene
Concen: 0.314 ug/l
RT: 13.780 min Scan# 2082
Delta R.T. 0.006 min
Lab File: VX044703.D
Acq: 23 Jan 2025 10:54



Tgt Ion:	128	Resp:	2828
Ion	Ratio	Lower	Upper
128	100		
127	12.2	10.2	15.4
129	12.8	9.0	13.6

