

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011625\
 Data File : VX044670.D
 Acq On : 16 Jan 2025 13:55
 Operator :
 Sample : Q1083-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jan 17 01:31:29 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)

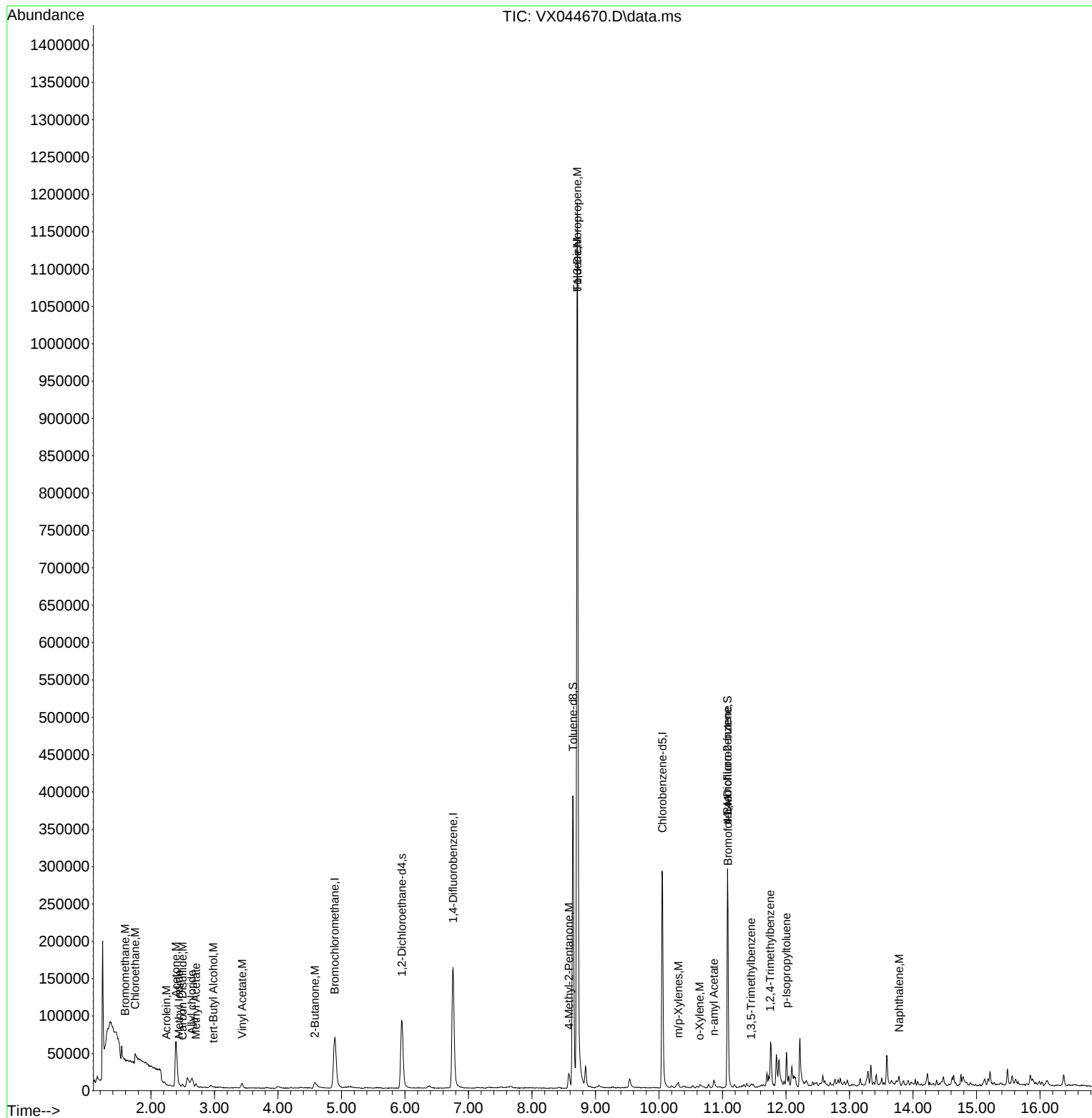
Internal Standards						
1) Bromochloromethane	4.891	128	31297	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	176011	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	149063	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	90648	30.002	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	100.000%
60) 4-Bromofluorobenzene	11.079	95	85127	29.402	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	98.000%
63) Toluene-d8	8.647	98	254016	31.331	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	104.433%
Target Compounds						
						Qvalue
5) Bromomethane	1.593	94	168	0.243	ug/l	# 14
6) Chloroethane	1.752	64	16857	37.121	ug/l	# 56
11) Methyl Iodide	2.441	142	758	0.237	ug/l	83
12) Methyl Acetate	2.709	43	5396	1.599	ug/l	95
13) Acrolein	2.240	56	512	1.372	ug/l	93
15) Acetone	2.392	58	23021	69.762	ug/l	94
16) Carbon Disulfide	2.496	76	4143	0.645	ug/l	# 93
17) Allyl chloride	2.642	41	1653	0.397	ug/l	# 75
23) tert-Butyl Alcohol	2.983	59	320	0.538	ug/l	# 100
30) 2-Butanone	4.581	43	18054	10.735	ug/l	# 78
42) Vinyl Acetate	3.434	43	2447	0.366	ug/l	95
47) n-amyl Acetate	10.866	43	2195	0.441	ug/l	# 26
48) t-1,3-Dichloropropene	8.714	75	5560	1.409	ug/l	# 1
56) Bromoform	11.085	173	473	0.256	ug/l	# 1
58) 4-Methyl-2-Pentanone	8.580	43	15540	4.946	ug/l	98
62) Toluene	8.714	91	816783	83.215	ug/l	99
67) m/p-Xylenes	10.305	106	1787	0.454	ug/l	98
68) o-Xylene	10.640	106	1016	0.257	ug/l	79
76) 1,3,5-Trimethylbenzene	11.451	105	1923	0.238	ug/l	92
77) t-1,4-Dichloro-2-butene	11.079	75	42995	32.346	ug/l	# 13
80) 1,2,4-Trimethylbenzene	11.750	105	8397	1.032	ug/l	87
82) p-Isopropyltoluene	12.006	119	19096	2.344	ug/l	99
91) Naphthalene	13.780	128	6938	0.727	ug/l	98

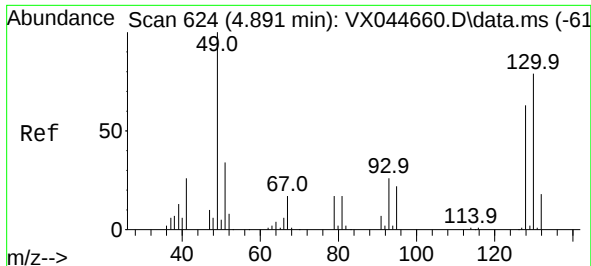
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011625\
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MSVOA_X
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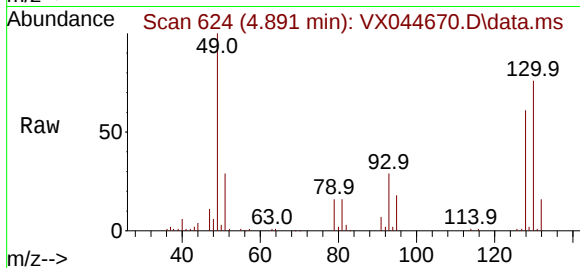
Quant Time: Jan 17 01:31:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X011625W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Jan 17 01:21:41 2025
Response via : Initial Calibration



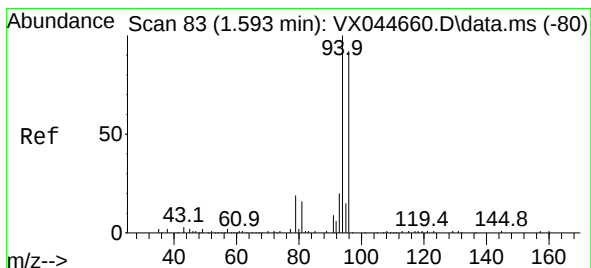
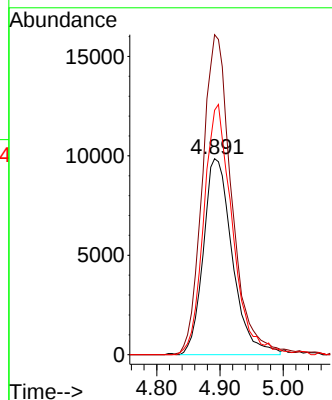
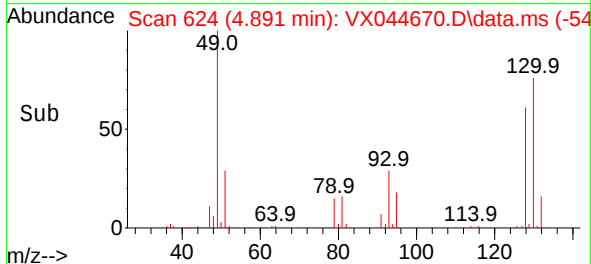


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.891 min Scan# 61
Delta R.T. 0.000 min
Lab File: VX044670.D
Acq: 16 Jan 2025 13:55

Instrument :
MSVOA_X
ClientSampleId :

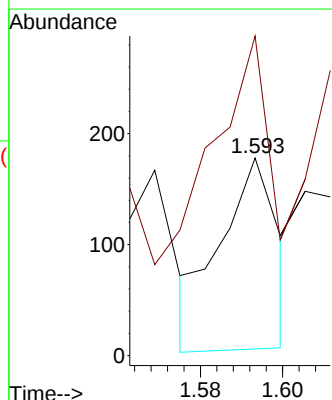
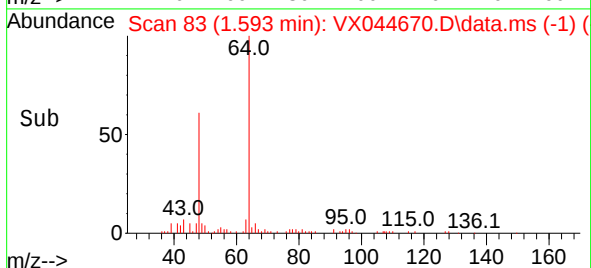
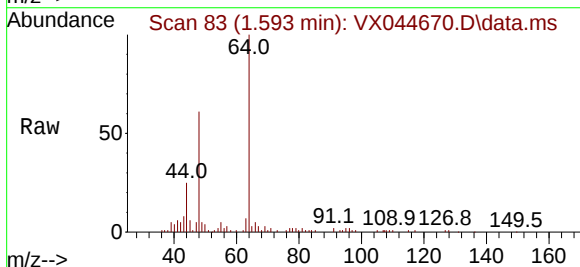


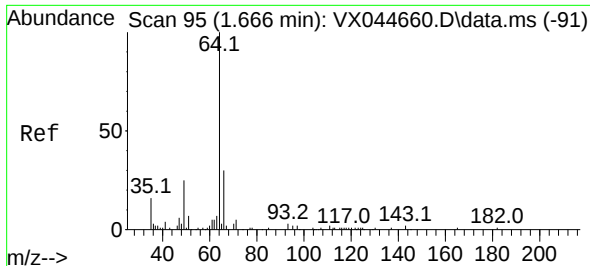
Tgt Ion:128 Resp: 31297
Ion Ratio Lower Upper
128 100
49 165.6 0.0 411.5
130 124.4 0.0 324.3



#5
Bromomethane
Concen: 0.243 ug/l
RT: 1.593 min Scan# 83
Delta R.T. 0.000 min
Lab File: VX044670.D
Acq: 16 Jan 2025 13:55

Tgt Ion: 94 Resp: 168
Ion Ratio Lower Upper
94 100
96 173.6 73.3 109.9#

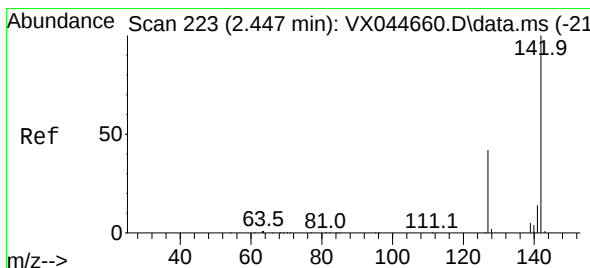
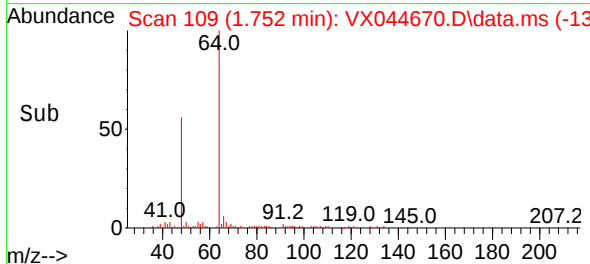
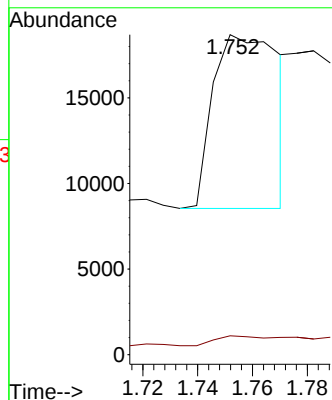
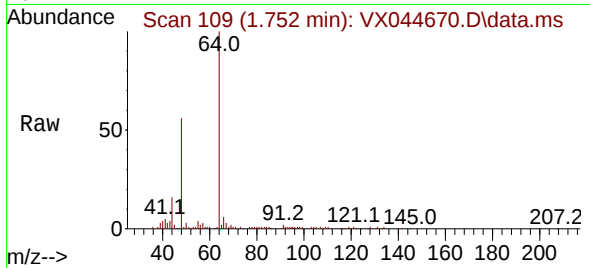




#6
Chloroethane
Concen: 37.121 ug/l
RT: 1.752 min Scan# 109
Delta R.T. 0.086 min
Lab File: VX044670.D
Acq: 16 Jan 2025 13:55

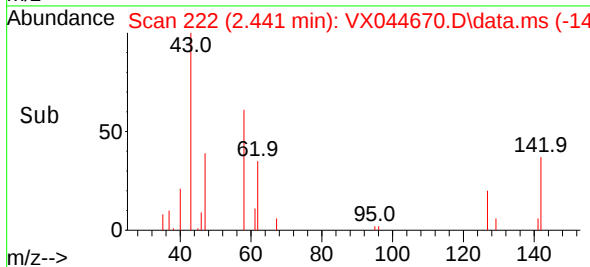
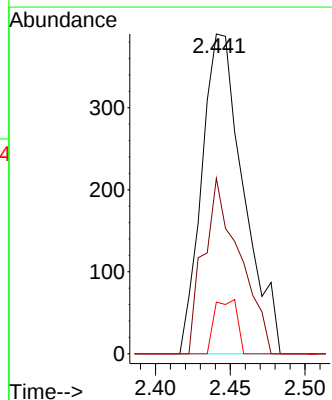
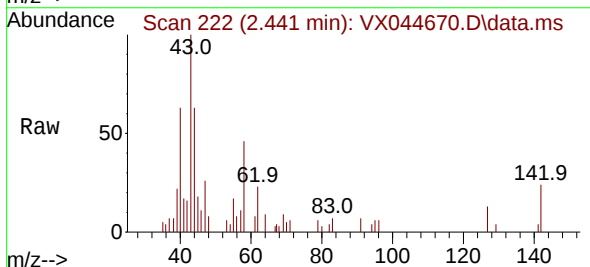
Instrument :
MSVOA_X
ClientSampleId :

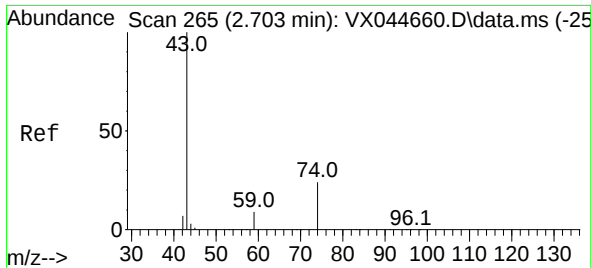
Tgt Ion: 64 Resp: 16857
Ion Ratio Lower Upper
64 100
66 5.7 23.8 35.6#



#11
Methyl Iodide
Concen: 0.237 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.006 min
Lab File: VX044670.D
Acq: 16 Jan 2025 13:55

Tgt Ion: 142 Resp: 758
Ion Ratio Lower Upper
142 100
127 54.9 20.8 62.4
141 16.2 7.0 20.9





#12

Methyl Acetate

Concen: 1.599 ug/l

RT: 2.709 min Scan# 2

Delta R.T. 0.006 min

Lab File: VX044670.D

Acq: 16 Jan 2025 13:55

Instrument :

MSVOA_X

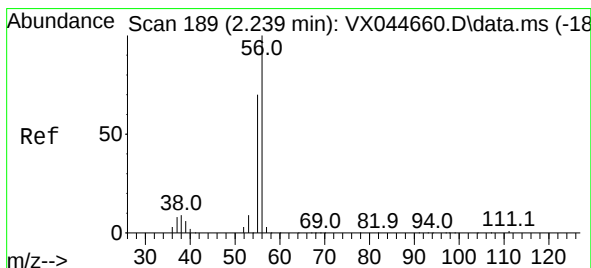
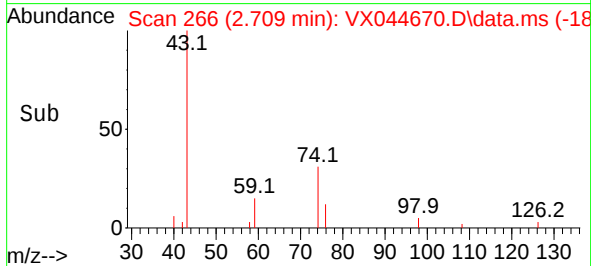
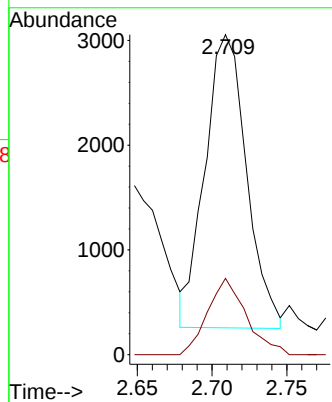
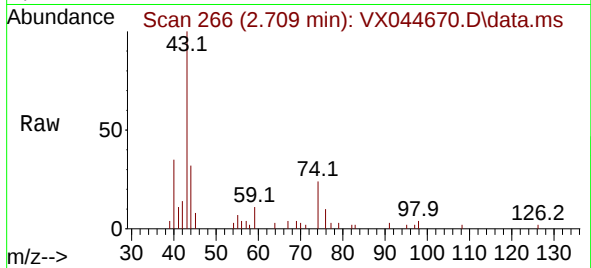
ClientSampleId :

Tgt Ion: 43 Resp: 5396

Ion Ratio Lower Upper

43 100

74 26.8 19.4 29.2



#13

Acrolein

Concen: 1.372 ug/l

RT: 2.240 min Scan# 189

Delta R.T. 0.000 min

Lab File: VX044670.D

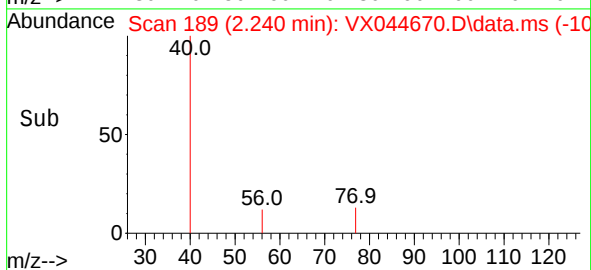
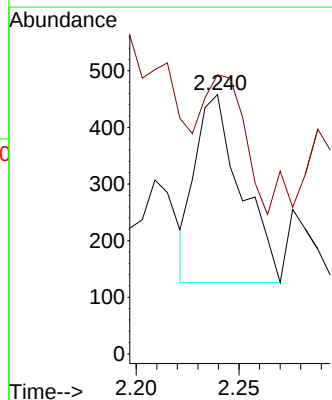
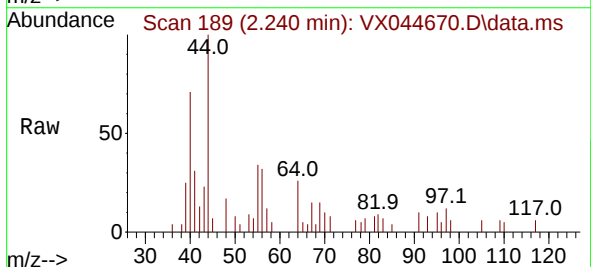
Acq: 16 Jan 2025 13:55

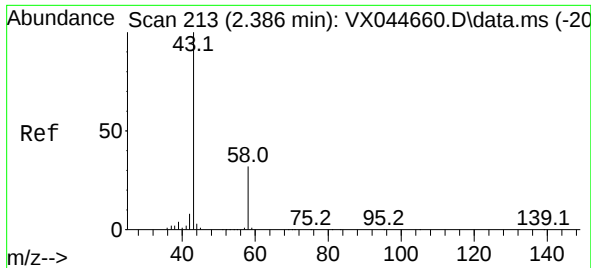
Tgt Ion: 56 Resp: 512

Ion Ratio Lower Upper

56 100

55 65.8 57.5 86.3

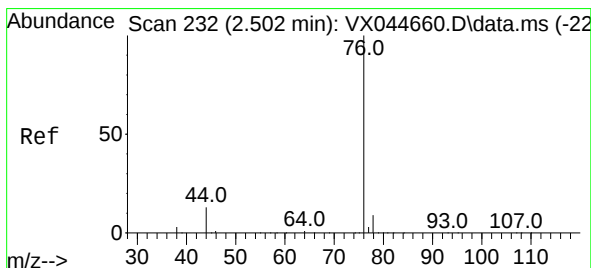
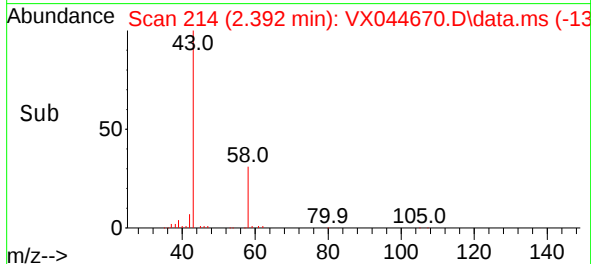
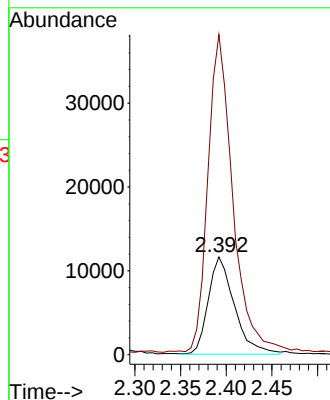
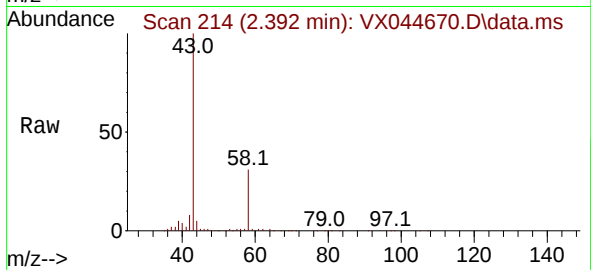




#15
Acetone
Concen: 69.762 ug/l
RT: 2.392 min Scan# 213
Delta R.T. 0.006 min
Lab File: VX044670.D
Acq: 16 Jan 2025 13:55

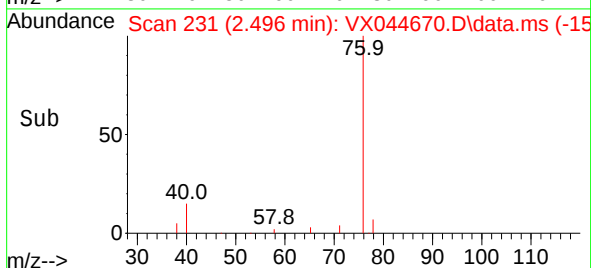
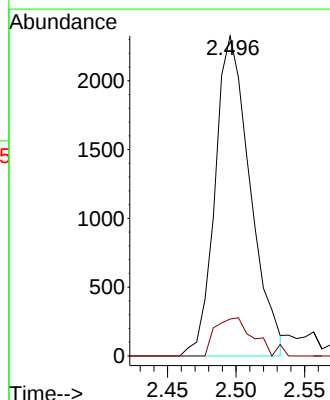
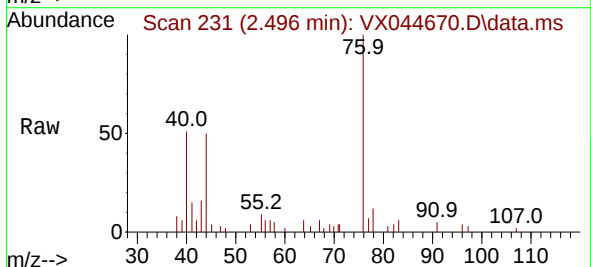
Instrument :
MSVOA_X
ClientSampleId :

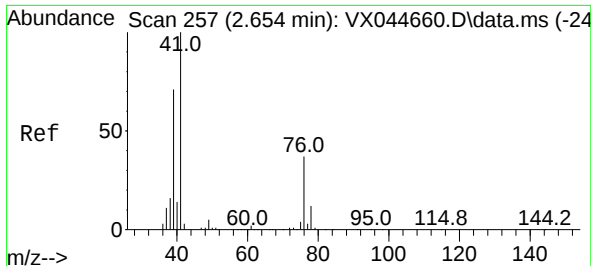
Tgt Ion: 58 Resp: 23021
Ion Ratio Lower Upper
58 100
43 326.4 251.0 376.4



#16
Carbon Disulfide
Concen: 0.645 ug/l
RT: 2.496 min Scan# 231
Delta R.T. -0.006 min
Lab File: VX044670.D
Acq: 16 Jan 2025 13:55

Tgt Ion: 76 Resp: 4143
Ion Ratio Lower Upper
76 100
78 11.5 7.3 10.9#





#17

Allyl chloride

Concen: 0.397 ug/l

RT: 2.642 min Scan# 21

Delta R.T. -0.012 min

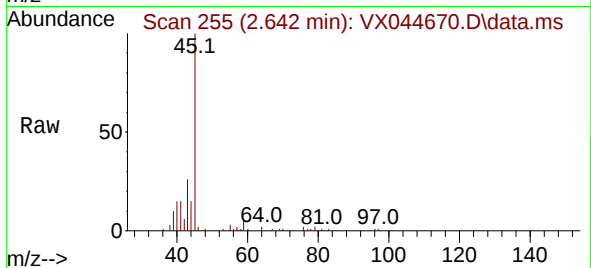
Lab File: VX044670.D

Acq: 16 Jan 2025 13:55

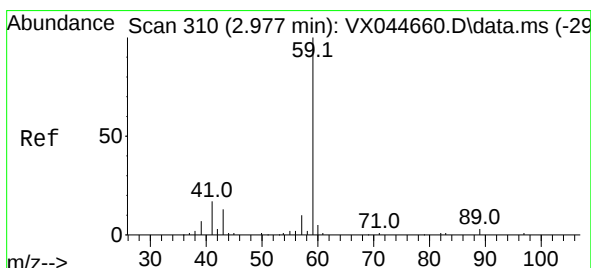
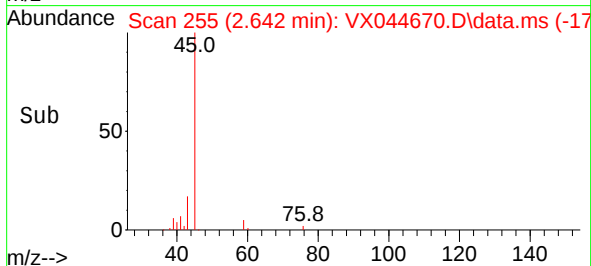
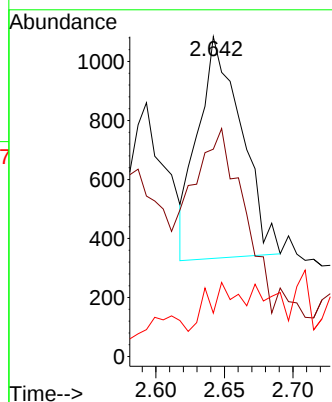
Instrument :

MSVOA_X

ClientSampleId :



Tgt Ion:	41	Resp:	1653
Ion	Ratio	Lower	Upper
41	100		
39	64.0	35.6	106.8
76	3.4	18.9	56.5#



#23

tert-Butyl Alcohol

Concen: 0.538 ug/l

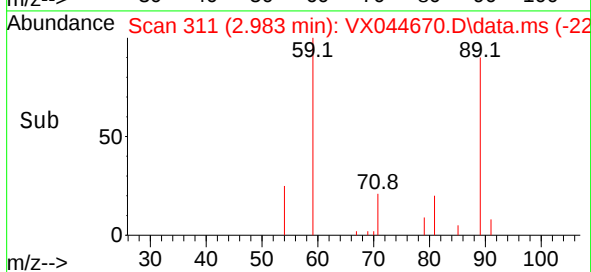
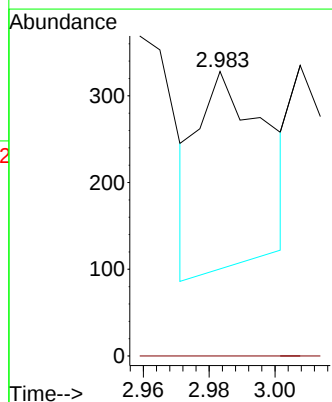
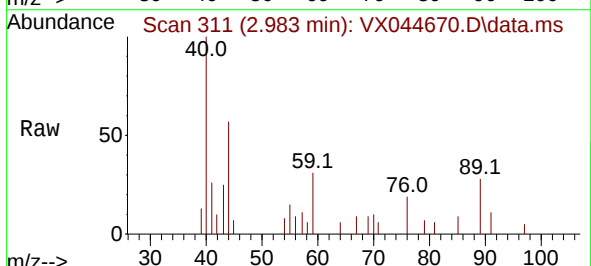
RT: 2.983 min Scan# 311

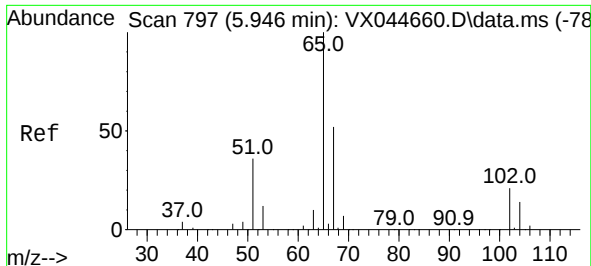
Delta R.T. 0.006 min

Lab File: VX044670.D

Acq: 16 Jan 2025 13:55

Tgt Ion:	59	Resp:	320
Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.1	0.1#

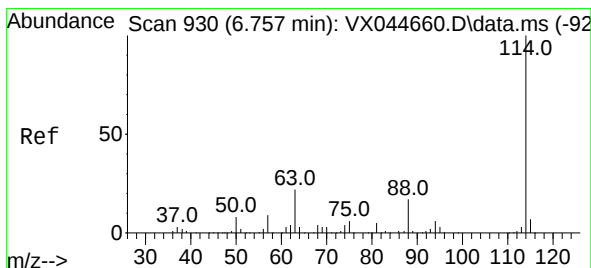
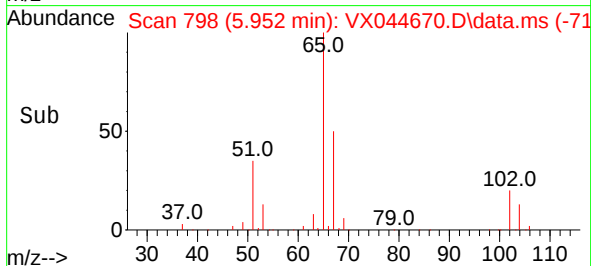
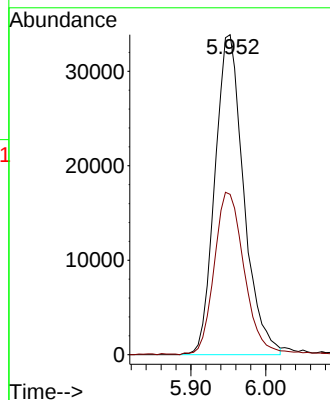
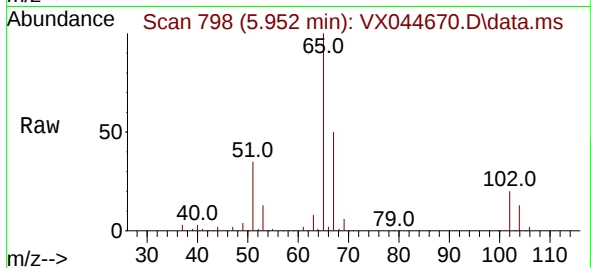




#27
1,2-Dichloroethane-d4
Concen: 30.002 ug/l
RT: 5.952 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX044670.D
Acq: 16 Jan 2025 13:55

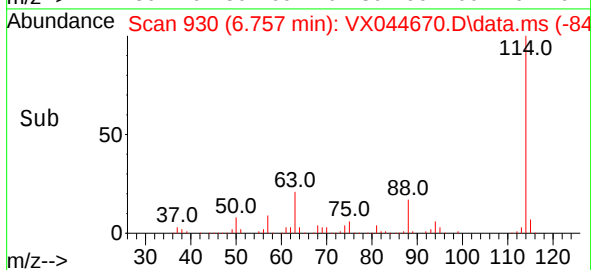
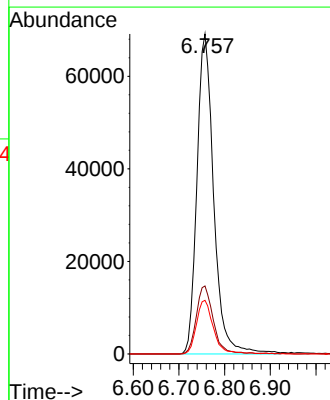
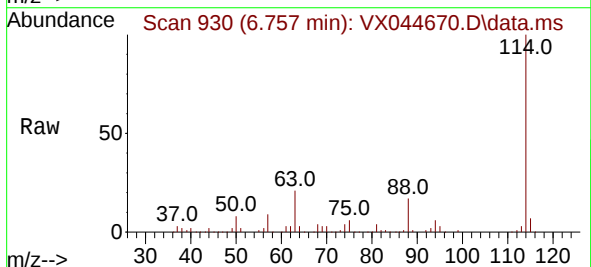
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ClientSampleId :

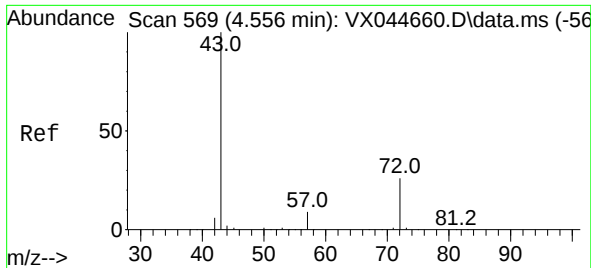
Tgt Ion: 65 Resp: 90648
Ion Ratio Lower Upper
65 100
67 53.0 41.4 62.2



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX044670.D
Acq: 16 Jan 2025 13:55

Tgt Ion: 114 Resp: 176011
Ion Ratio Lower Upper
114 100
63 21.2 16.6 24.8
88 16.7 13.4 20.2

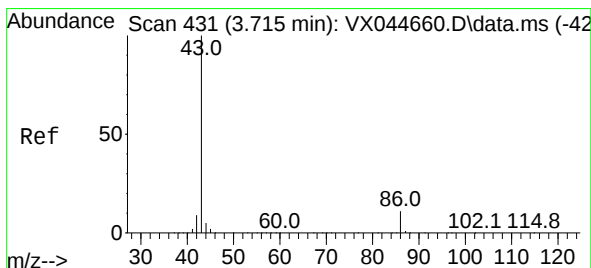
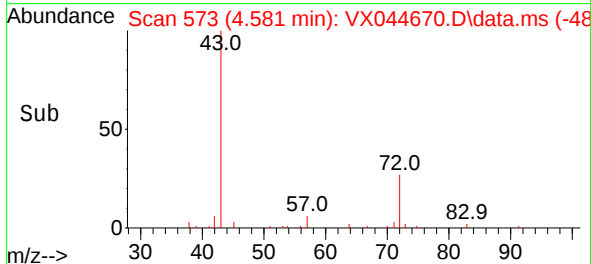
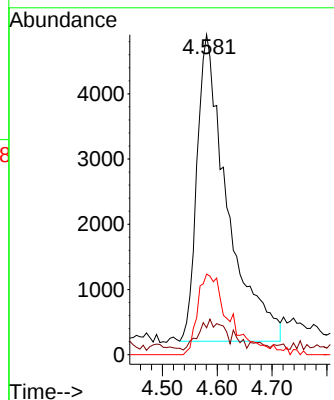
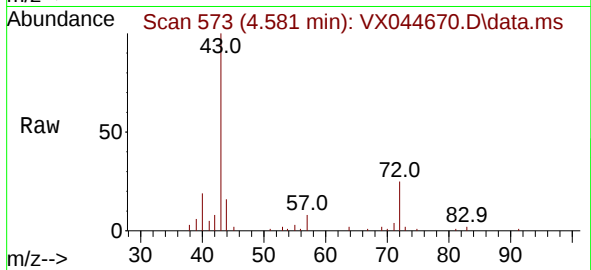




#30
2-Butanone
Concen: 10.735 ug/l
RT: 4.581 min Scan# 51
Delta R.T. 0.025 min
Lab File: VX044670.D
Acq: 16 Jan 2025 13:55

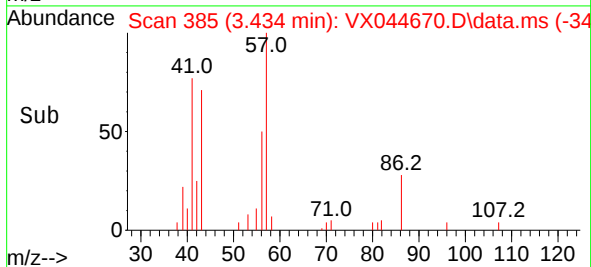
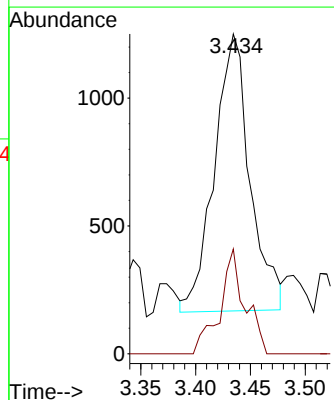
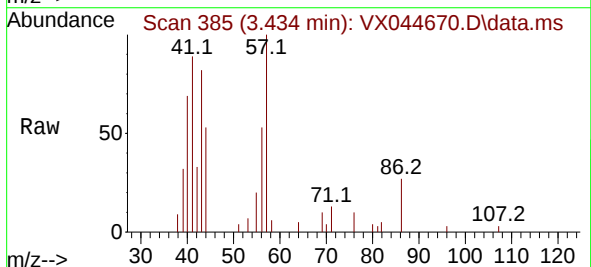
Instrument :
MSVOA_X
ClientSampleId :

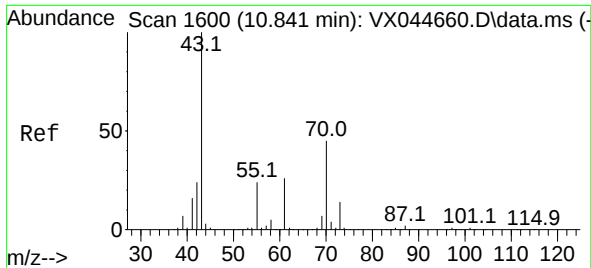
Tgt Ion: 43 Resp: 18054
Ion Ratio Lower Upper
43 100
57 4.9 6.4 9.6#
72 13.8 21.5 32.3#



#42
Vinyl Acetate
Concen: 0.366 ug/l
RT: 3.434 min Scan# 385
Delta R.T. -0.280 min
Lab File: VX044670.D
Acq: 16 Jan 2025 13:55

Tgt Ion: 43 Resp: 2447
Ion Ratio Lower Upper
43 100
86 11.9 8.0 12.0





#47

n-amyl Acetate

Concen: 0.441 ug/l

RT: 10.866 min Scan# 1

Delta R.T. 0.025 min

Lab File: VX044670.D

Acq: 16 Jan 2025 13:55

Instrument :

MSVOA_X

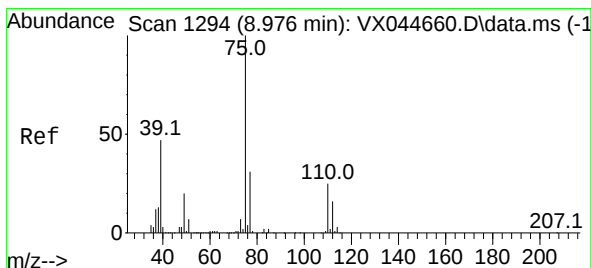
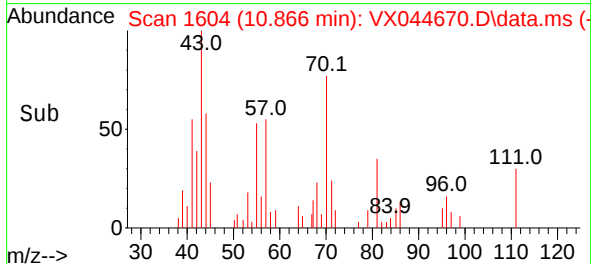
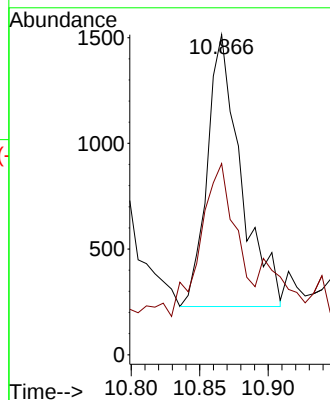
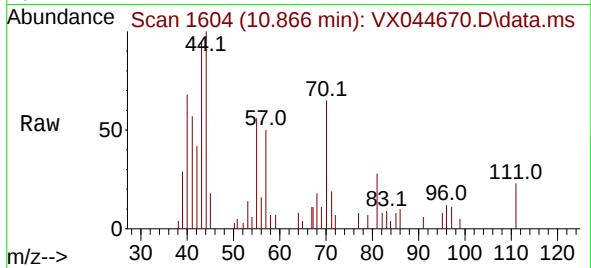
ClientSampleId :

Tgt Ion: 43 Resp: 2195

Ion Ratio Lower Upper

43 100

55 59.6 18.9 28.3#



#48

t-1,3-Dichloropropene

Concen: 1.409 ug/l

RT: 8.714 min Scan# 1251

Delta R.T. -0.262 min

Lab File: VX044670.D

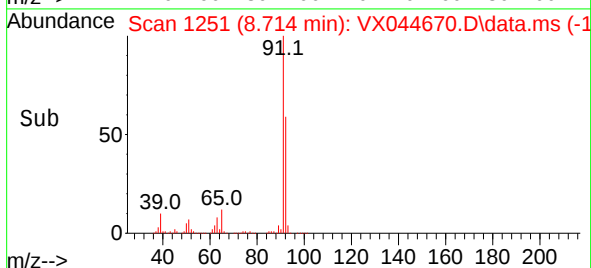
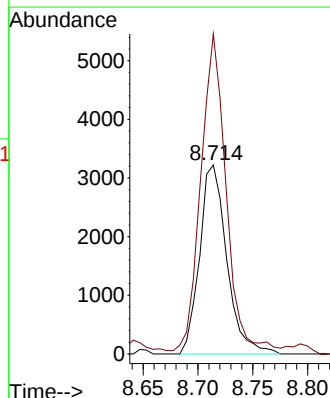
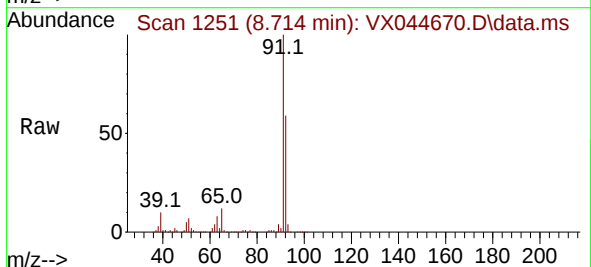
Acq: 16 Jan 2025 13:55

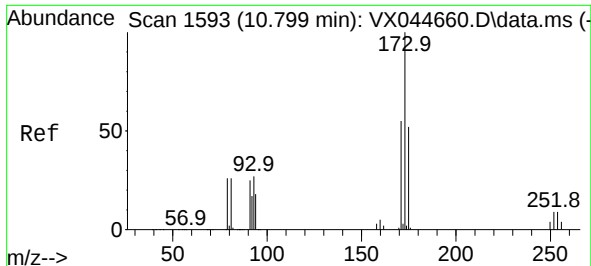
Tgt Ion: 75 Resp: 5560

Ion Ratio Lower Upper

75 100

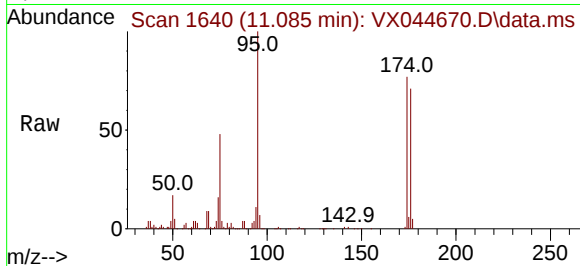
77 166.3 24.8 37.2#



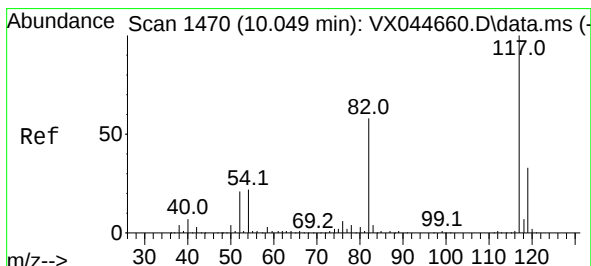
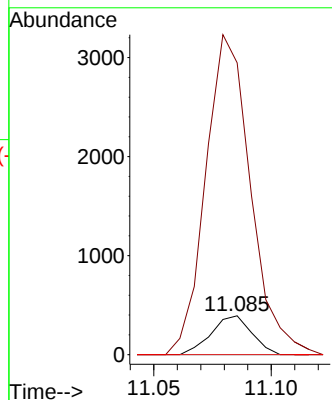
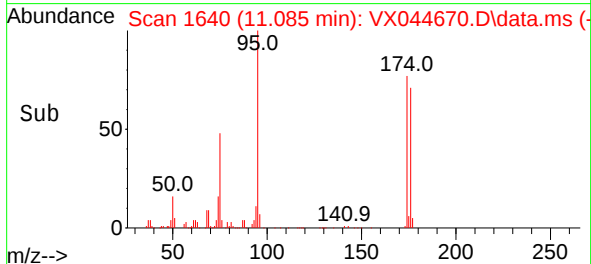


#56
Bromoform
Concen: 0.256 ug/l
RT: 11.085 min Scan# 1
Delta R.T. 0.287 min
Lab File: VX044670.D
Acq: 16 Jan 2025 13:55

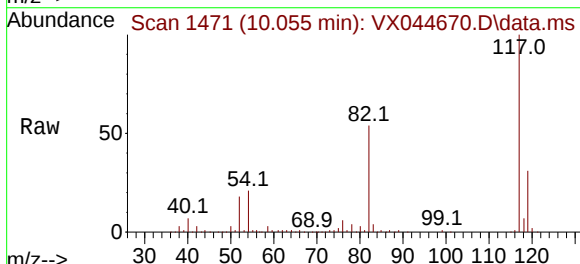
Instrument :
MSVOA_X
ClientSampleId :



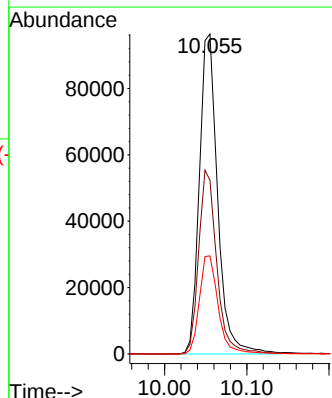
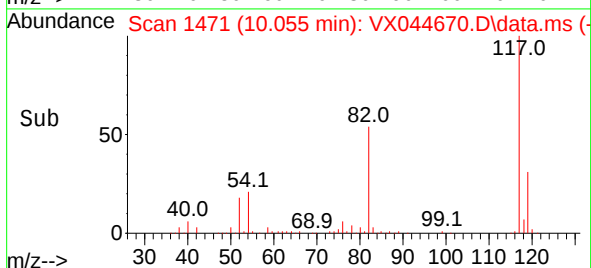
Tgt Ion:173 Resp: 473
Ion Ratio Lower Upper
173 100
175 910.6 39.0 58.6#
254 0.0 6.5 9.7#

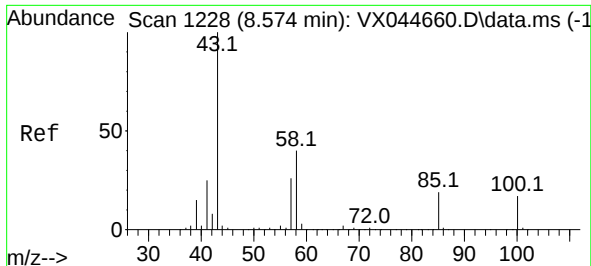


#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.006 min
Lab File: VX044670.D
Acq: 16 Jan 2025 13:55



Tgt Ion:117 Resp: 149063
Ion Ratio Lower Upper
117 100
82 57.1 45.8 68.6
119 31.5 25.8 38.6

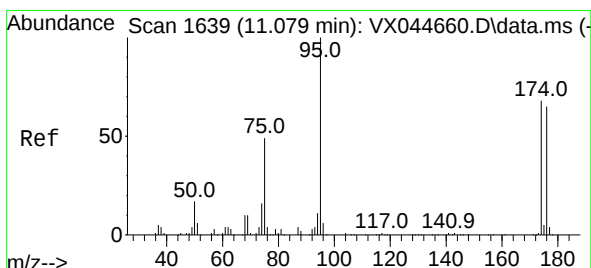
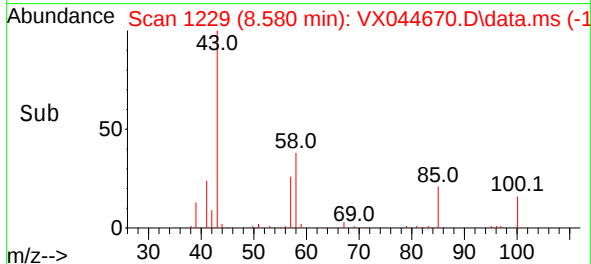
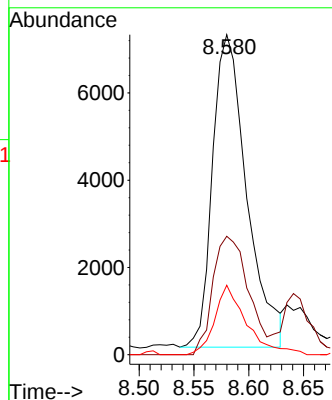
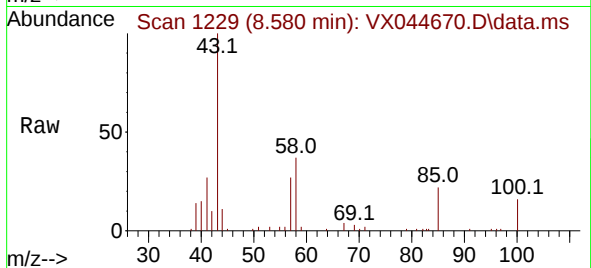




#58
4-Methyl-2-Pentanone
Concen: 4.946 ug/l
RT: 8.580 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX044670.D
Acq: 16 Jan 2025 13:55

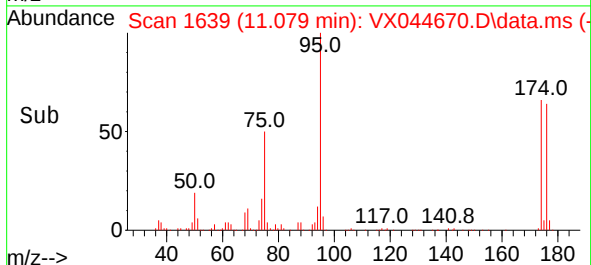
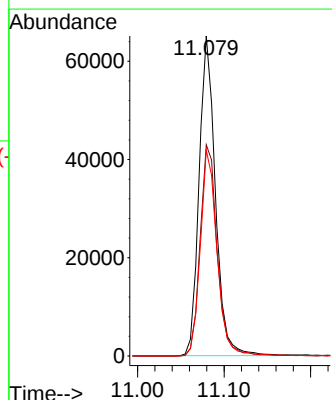
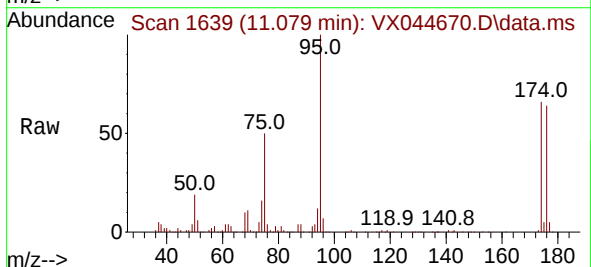
Instrument :
MSVOA_X
ClientSampleId :

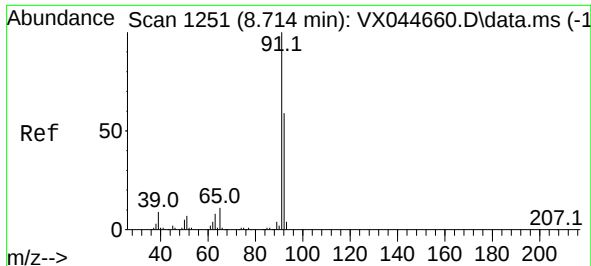
Tgt Ion: 43 Resp: 15540
Ion Ratio Lower Upper
43 100
58 39.3 31.7 47.5
85 20.7 15.0 22.6



#60
4-Bromofluorobenzene
Concen: 29.402 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044670.D
Acq: 16 Jan 2025 13:55

Tgt Ion: 95 Resp: 85127
Ion Ratio Lower Upper
95 100
174 68.9 54.6 81.8
176 65.7 52.8 79.2

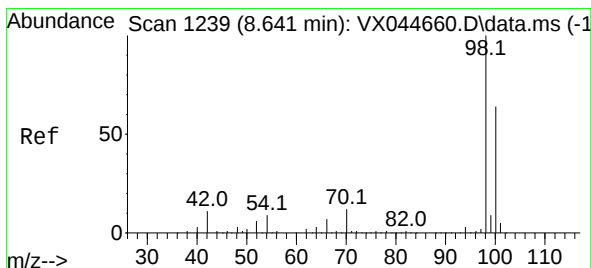
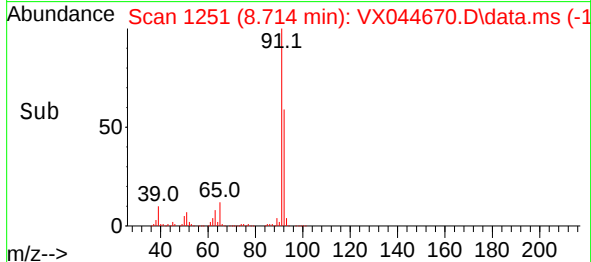
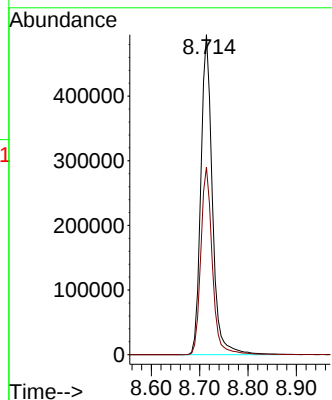
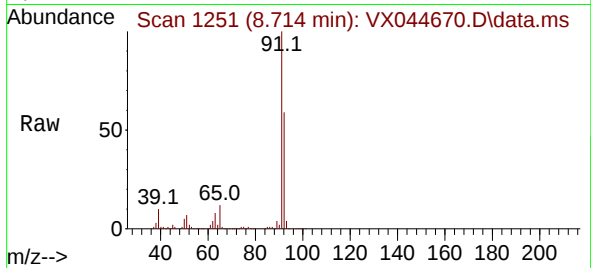




#62
Toluene
Concen: 83.215 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044670.D
Acq: 16 Jan 2025 13:55

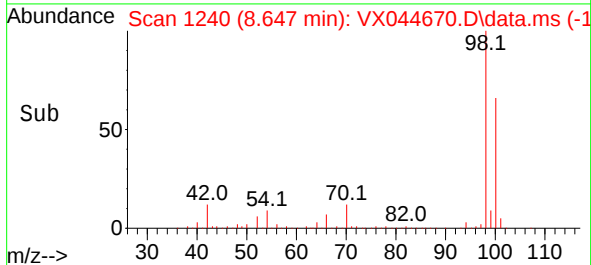
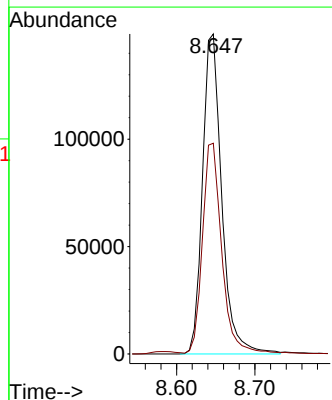
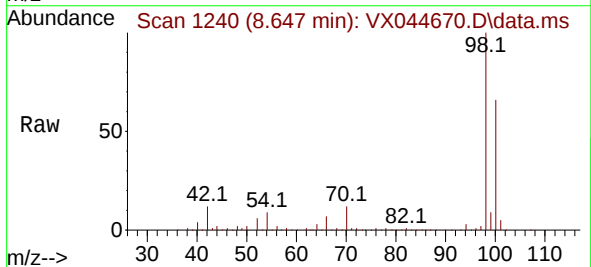
Instrument :
MSVOA_X
ClientSampleId :

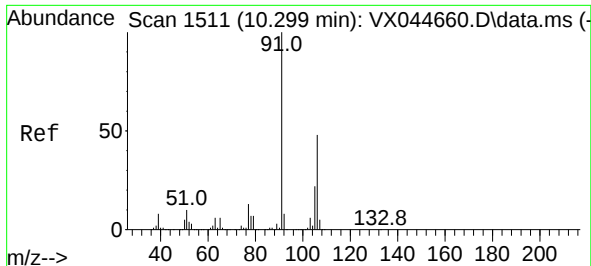
Tgt Ion: 91 Resp: 816783
Ion Ratio Lower Upper
91 100
92 58.7 47.3 70.9



#63
Toluene-d8
Concen: 31.331 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.006 min
Lab File: VX044670.D
Acq: 16 Jan 2025 13:55

Tgt Ion: 98 Resp: 254016
Ion Ratio Lower Upper
98 100
100 65.9 53.6 80.4

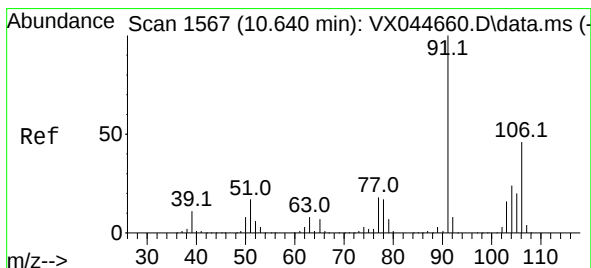
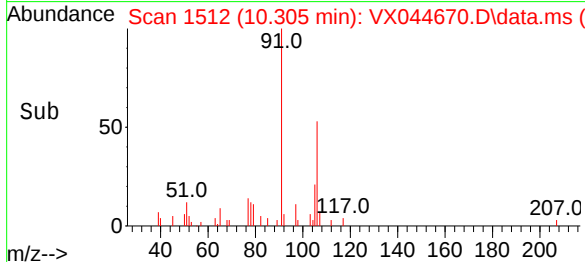
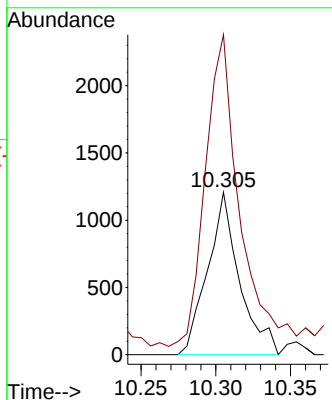
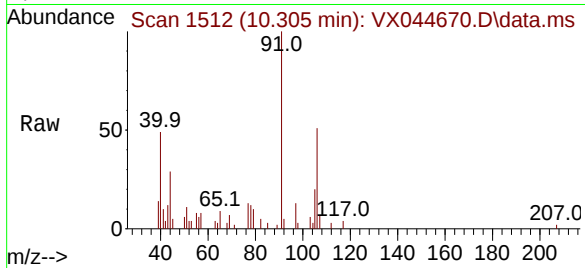




#67
m/p-Xylenes
Concen: 0.454 ug/l
RT: 10.305 min Scan# 1512
Delta R.T. 0.006 min
Lab File: VX044670.D
Acq: 16 Jan 2025 13:55

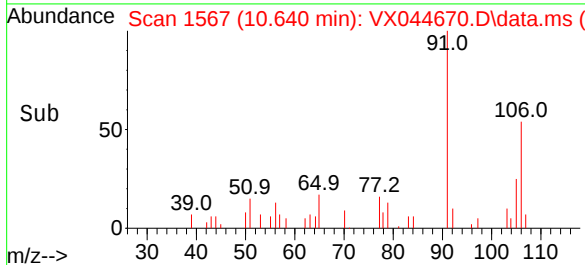
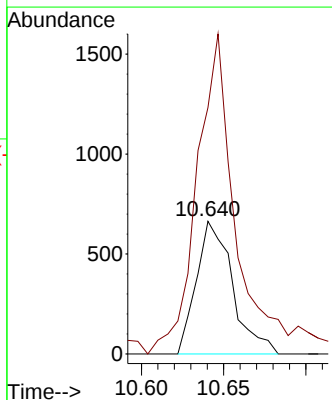
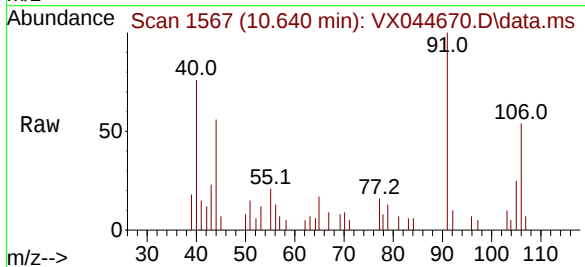
Instrument :
MSVOA_X
ClientSampleId :

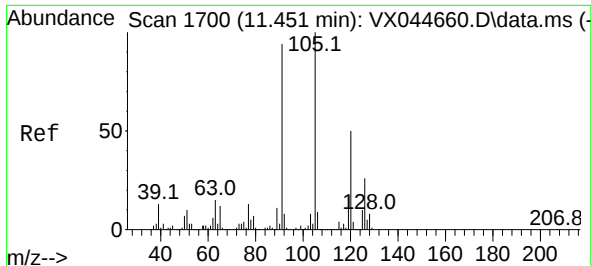
Tgt Ion:106 Resp: 1787
Ion Ratio Lower Upper
106 100
91 204.8 166.8 250.2



#68
o-Xylene
Concen: 0.257 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX044670.D
Acq: 16 Jan 2025 13:55

Tgt Ion:106 Resp: 1016
Ion Ratio Lower Upper
106 100
91 252.6 109.7 329.1

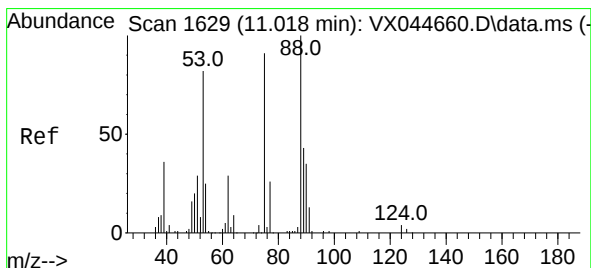
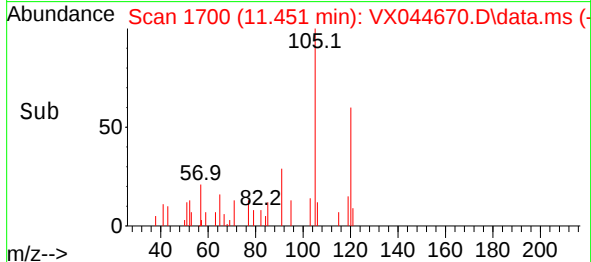
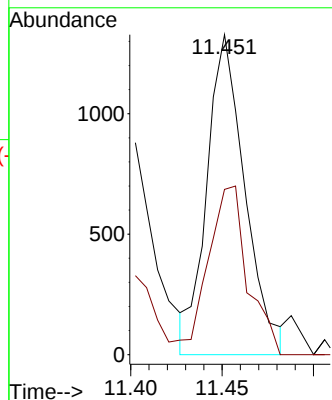
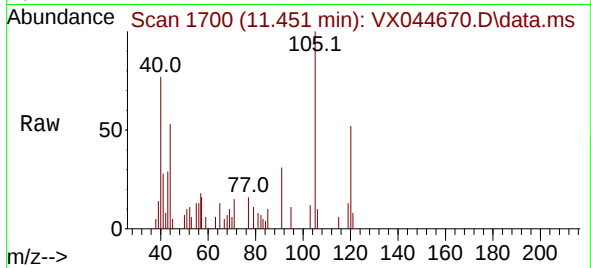




#76
1,3,5-Trimethylbenzene
Concen: 0.238 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044670.D
Acq: 16 Jan 2025 13:55

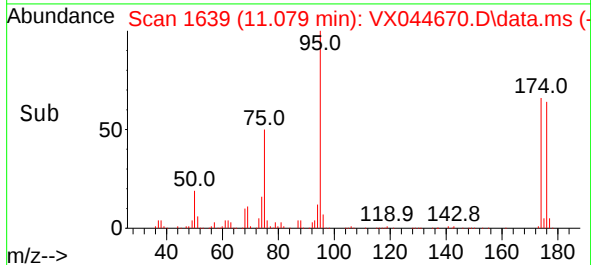
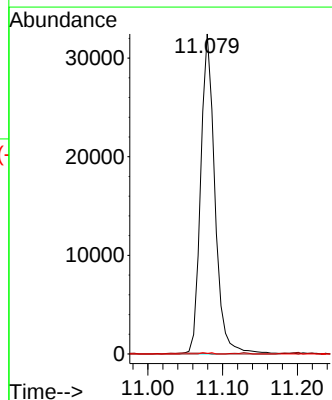
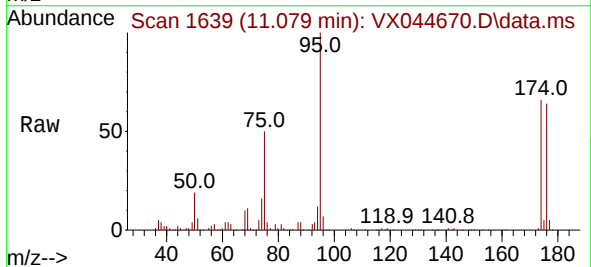
Instrument :
MSVOA_X
ClientSampleId :

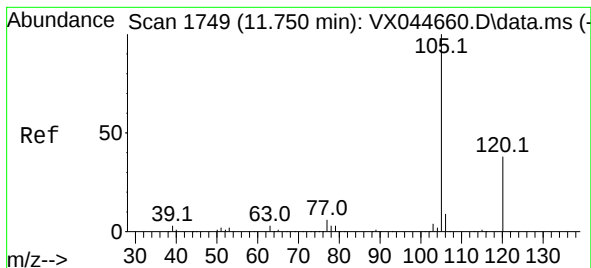
Tgt Ion:105 Resp: 1923
Ion Ratio Lower Upper
105 100
120 54.1 0.0 96.8



#77
t-1,4-Dichloro-2-butene
Concen: 32.346 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX044670.D
Acq: 16 Jan 2025 13:55

Tgt Ion: 75 Resp: 42995
Ion Ratio Lower Upper
75 100
53 0.0 45.3 135.9#
89 0.2 23.8 71.2#





#80

1,2,4-Trimethylbenzene

Concen: 1.032 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. 0.000 min

Lab File: VX044670.D

Acq: 16 Jan 2025 13:55

Instrument :

MSVOA_X

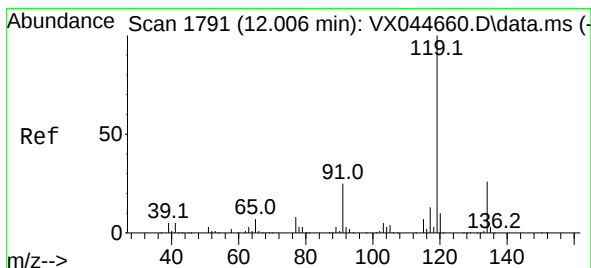
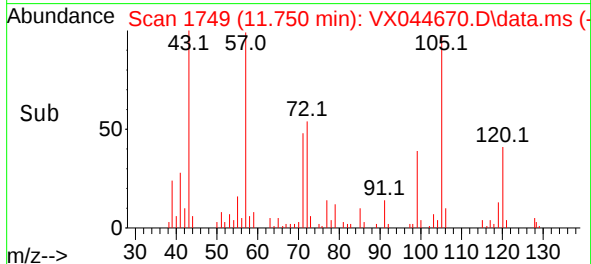
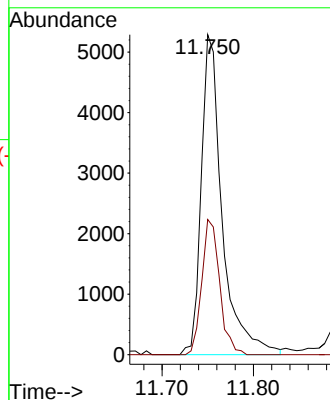
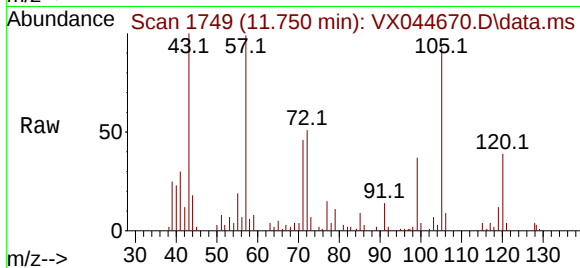
ClientSampleId :

Tgt Ion:105 Resp: 8397

Ion Ratio Lower Upper

105 100

120 36.1 0.0 88.4



#82

p-Isopropyltoluene

Concen: 2.344 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. 0.000 min

Lab File: VX044670.D

Acq: 16 Jan 2025 13:55

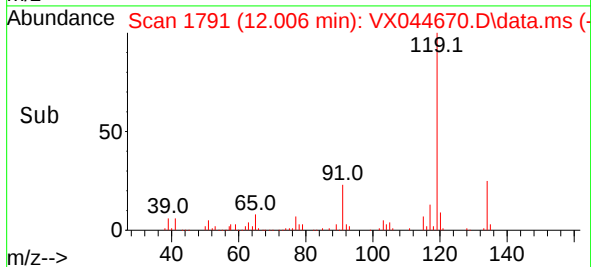
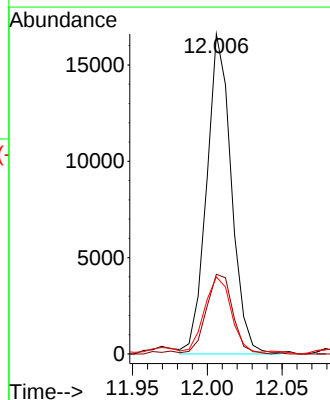
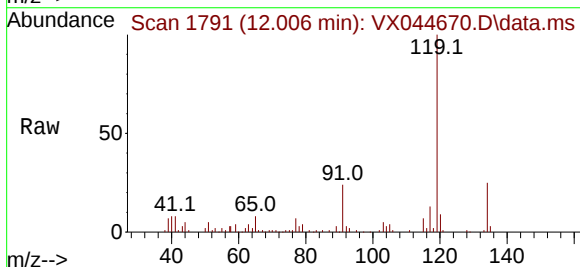
Tgt Ion:119 Resp: 19096

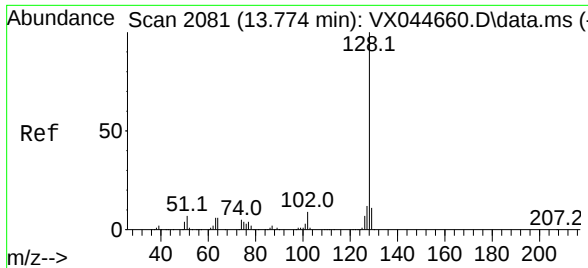
Ion Ratio Lower Upper

119 100

134 26.5 0.0 52.2

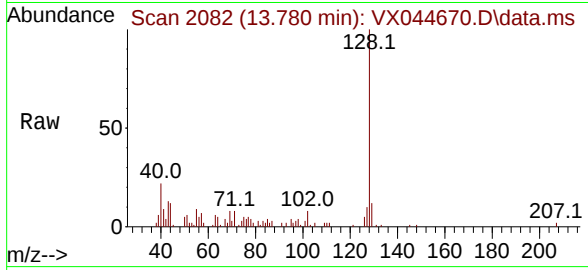
91 25.5 0.0 50.2





#91
 Naphthalene
 Concen: 0.727 ug/l
 RT: 13.780 min Scan# 20
 Delta R.T. 0.006 min
 Lab File: VX044670.D
 Acq: 16 Jan 2025 13:55

Instrument :
 MSVOA_X
 ClientSampleId :



Tgt Ion:	128	Resp:	6938
Ion Ratio	Lower	Upper	
128	100		
127	12.3	10.2	15.4
129	12.3	9.0	13.6

