

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010923\
 Data File : VX033670.D
 Acq On : 09 Jan 2023 17:58
 Operator : JC/MD
 Sample : 01059-02RE
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jan 10 00:48:36 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X010723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jan 07 06:16:21 2023
 Response via : Initial Calibration

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

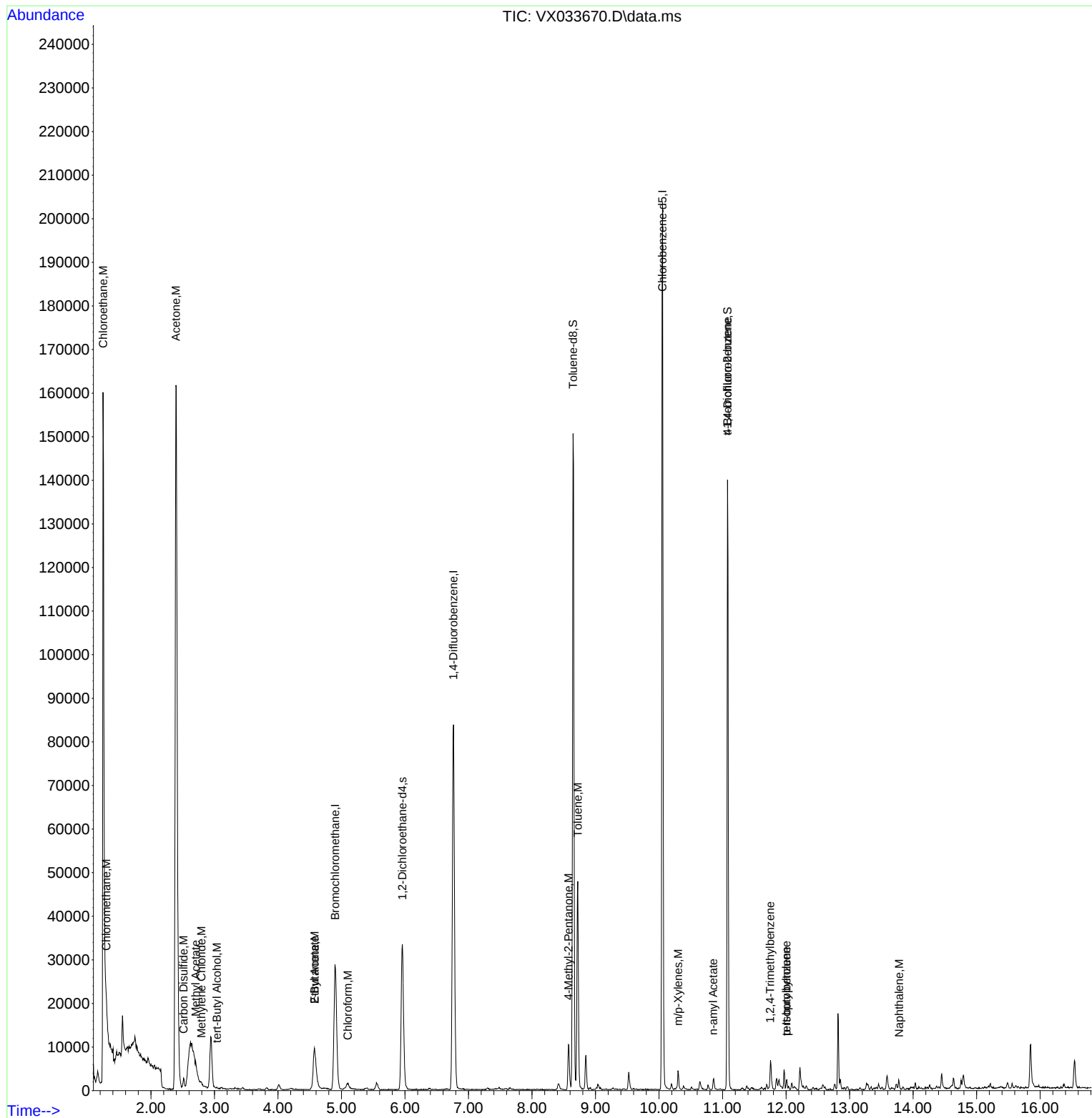
Internal Standards						
1) Bromochloromethane	4.897	128	12397	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	86201	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	93847	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	33079	32.954	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	109.833%
60) 4-Bromofluorobenzene	11.079	95	33579	19.852	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	66.167%
63) Toluene-d8	8.647	98	91851	30.582	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	101.933%
Target Compounds						
					Qvalue	
3) Chloromethane	1.294	50	1017	0.732	ug/l #	43
6) Chloroethane	1.246	64	164221	223.373	ug/l #	50
12) Methyl Acetate	2.703	43	2075	1.047	ug/l #	78
15) Acetone	2.392	58	68173	460.729	ug/l	88
16) Carbon Disulfide	2.514	76	2701	0.980	ug/l	99
18) Methylene Chloride	2.794	84	303	0.228	ug/l #	72
23) tert-Butyl Alcohol	3.038	59	202	0.782	ug/l #	100
25) Chloroform	5.099	83	1254	0.518	ug/l #	67
30) 2-Butanone	4.574	43	11246	11.557	ug/l #	92
43) Ethyl Acetate	4.574	43	11246	5.640	ug/l	94
47) n-amyl Acetate	10.854	43	607	0.228	ug/l #	35
58) 4-Methyl-2-Pentanone	8.574	43	7137	3.828	ug/l	98
62) Toluene	8.720	91	31521	5.336	ug/l	98
67) m/p-Xylenes	10.299	106	1111	0.427	ug/l	91
77) t-1,4-Dichloro-2-butene	11.079	75	18232	33.755	ug/l #	3
79) tert-butylbenzene	12.006	119	1308	0.232	ug/l	67
80) 1,2,4-Trimethylbenzene	11.750	105	1939	0.357	ug/l	92
82) p-Isopropyltoluene	12.006	119	1308	0.222	ug/l	92
91) Naphthalene	13.780	128	1546	0.249	ug/l #	77

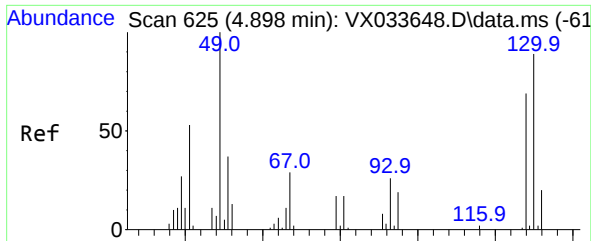
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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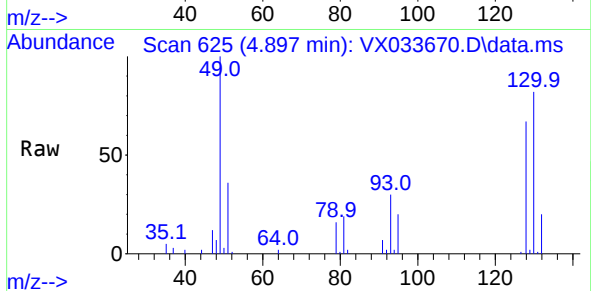
Quant Time: Jan 10 00:48:36 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X010723W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Jan 07 06:16:21 2023
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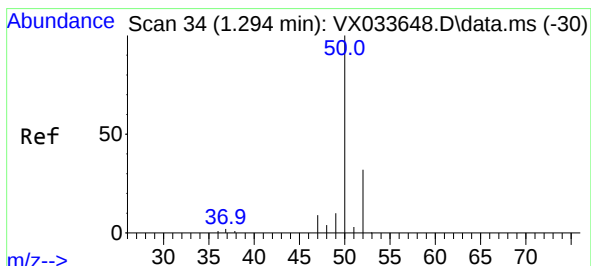
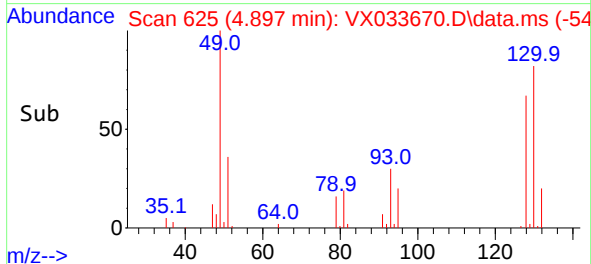
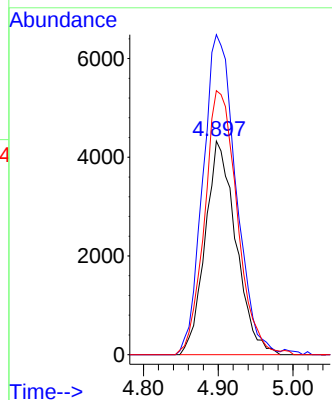


#1
 Bromochloromethane
 Concen: 30.000 ug/l
 RT: 4.897 min Scan# 61
 Delta R.T. -0.001 min
 Lab File: VX033670.D
 Acq: 09 Jan 2023 17:58

Instrument :
 MSVOA_X
 ClientSampleId :

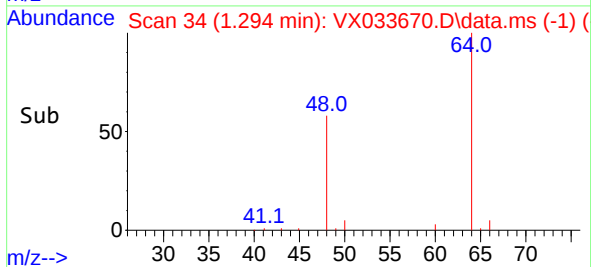
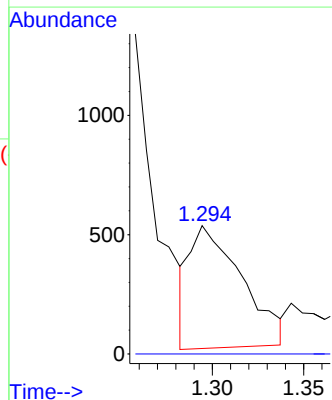
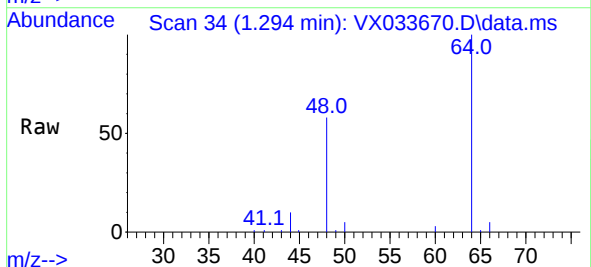


Tgt Ion:128 Resp: 12397
 Ion Ratio Lower Upper
 128 100
 49 160.7 0.0 398.5
 130 130.7 0.0 329.0

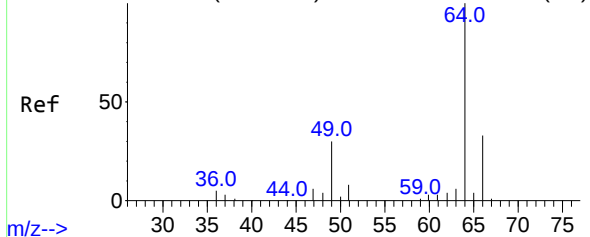


#3
 Chloromethane
 Concen: 0.732 ug/l
 RT: 1.294 min Scan# 34
 Delta R.T. -0.000 min
 Lab File: VX033670.D
 Acq: 09 Jan 2023 17:58

Tgt Ion: 50 Resp: 1017
 Ion Ratio Lower Upper
 50 100
 52 0.0 25.5 38.3#



Abundance Scan 99 (1.691 min): VX033648.D\data.ms (-95)

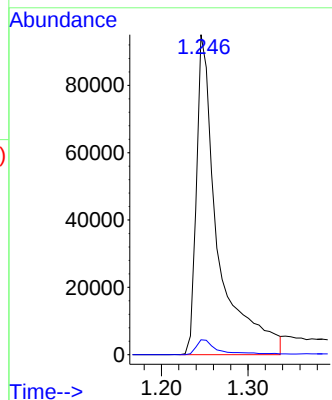
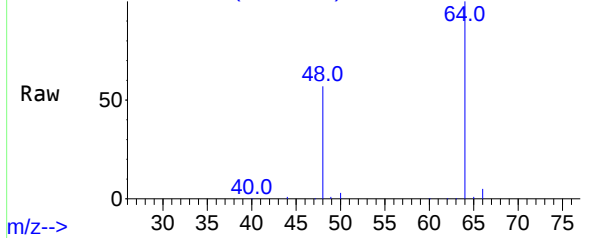


#6
Chloroethane
Concen: 223.373 ug/l
RT: 1.246 min Scan# 20
Delta R.T. -0.445 min
Lab File: VX033670.D
Acq: 09 Jan 2023 17:58

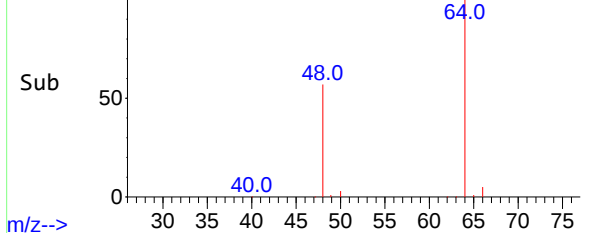
Instrument :
MSVOA_X
ClientSampleId :

Tgt Ion: 64 Resp: 164221
Ion Ratio Lower Upper
64 100
66 4.7 26.6 40.0#

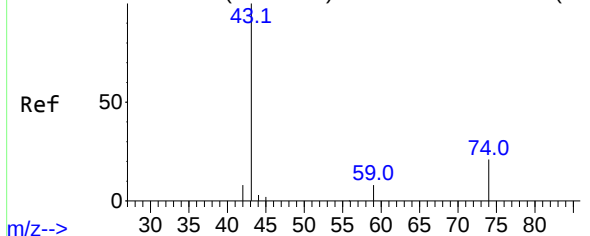
Abundance Scan 26 (1.246 min): VX033670.D\data.ms



Abundance Scan 26 (1.246 min): VX033670.D\data.ms (-17)



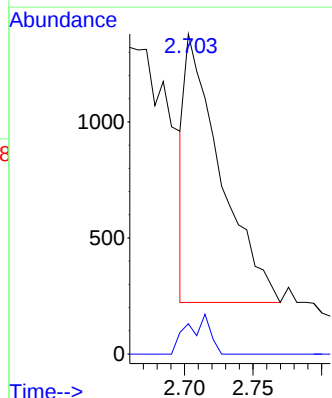
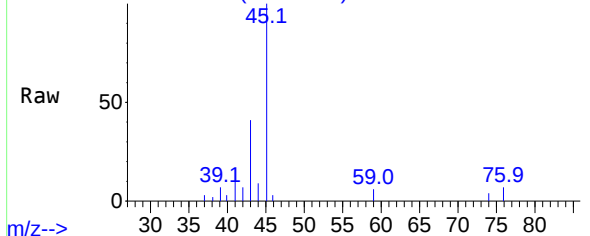
Abundance Scan 266 (2.709 min): VX033648.D\data.ms (-25)



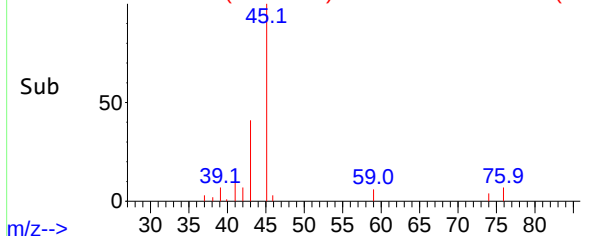
#12
Methyl Acetate
Concen: 1.047 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.006 min
Lab File: VX033670.D
Acq: 09 Jan 2023 17:58

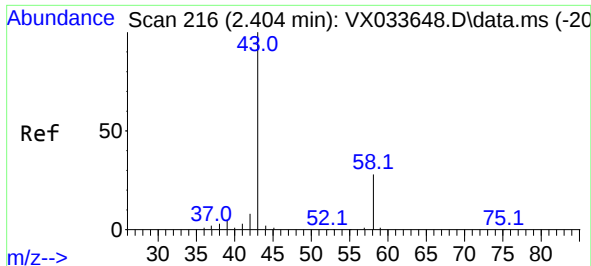
Tgt Ion: 43 Resp: 2075
Ion Ratio Lower Upper
43 100
74 10.7 17.0 25.6#

Abundance Scan 265 (2.703 min): VX033670.D\data.ms



Abundance Scan 265 (2.703 min): VX033670.D\data.ms (-18)

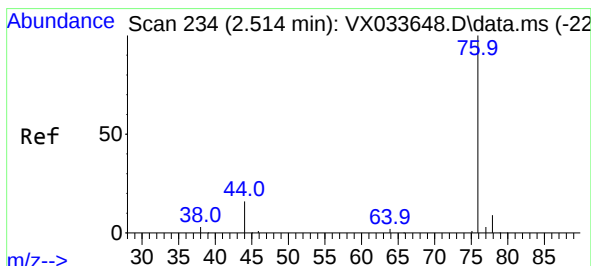
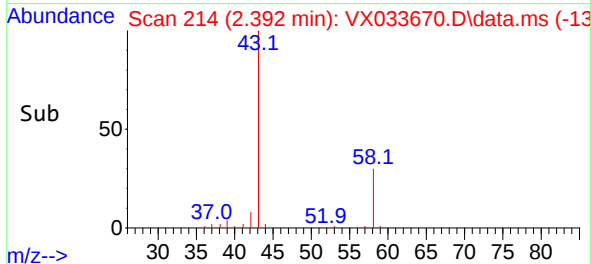
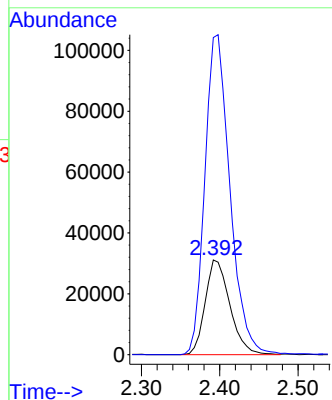
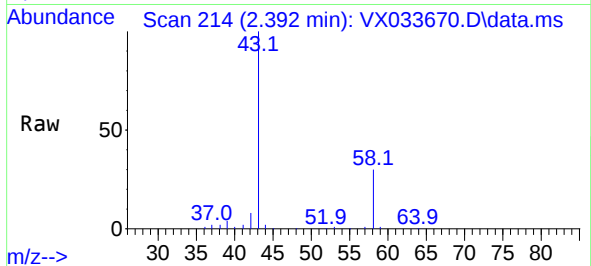




#15
Acetone
Concen: 460.729 ug/l
RT: 2.392 min Scan# 216
Delta R.T. -0.012 min
Lab File: VX033670.D
Acq: 09 Jan 2023 17:58

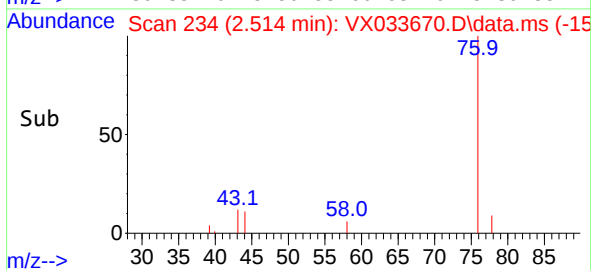
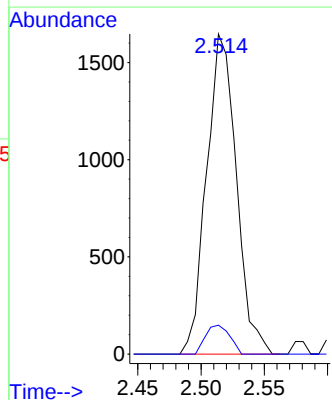
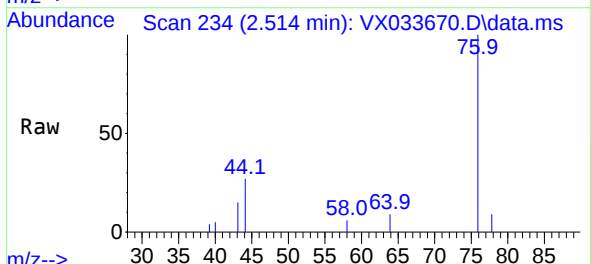
Instrument :
MSVOA_X
ClientSampleId :

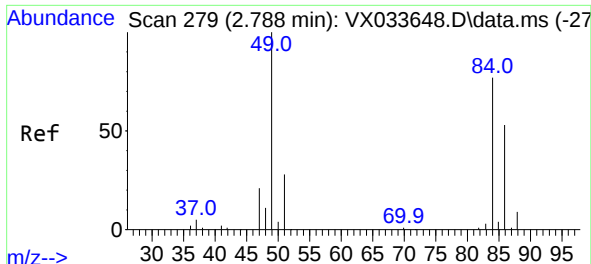
Tgt Ion: 58 Resp: 68173
Ion Ratio Lower Upper
58 100
43 334.7 288.3 432.5



#16
Carbon Disulfide
Concen: 0.980 ug/l
RT: 2.514 min Scan# 234
Delta R.T. -0.000 min
Lab File: VX033670.D
Acq: 09 Jan 2023 17:58

Tgt Ion: 76 Resp: 2701
Ion Ratio Lower Upper
76 100
78 9.0 7.0 10.4





#18

Methylene Chloride

Concen: 0.228 ug/l

RT: 2.794 min Scan# 21

Delta R.T. 0.006 min

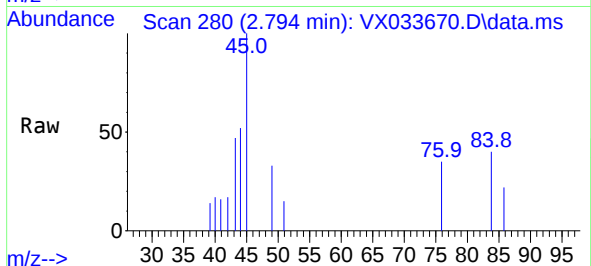
Lab File: VX033670.D

Acq: 09 Jan 2023 17:58

Instrument :

MSVOA_X

ClientSampleId :



Tgt Ion: 84 Resp: 303

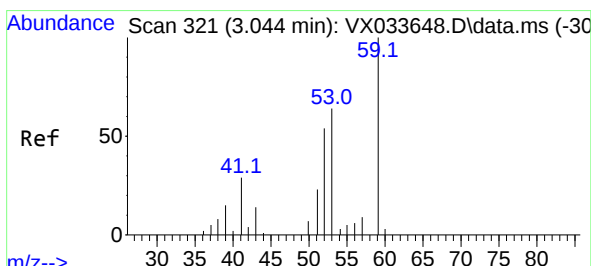
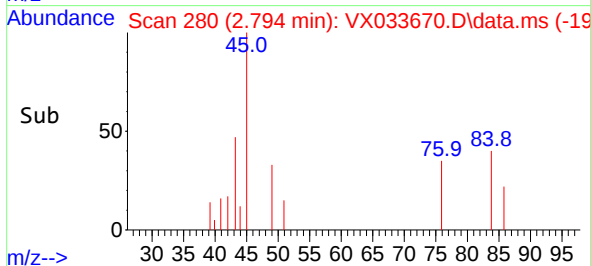
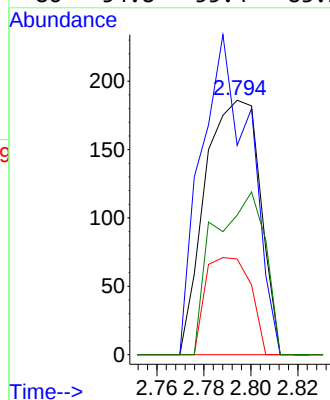
Ion Ratio Lower Upper

84 100

49 82.3 104.1 156.1#

51 37.6 29.2 43.8

86 54.8 55.4 83.2#



#23

tert-Butyl Alcohol

Concen: 0.782 ug/l

RT: 3.038 min Scan# 320

Delta R.T. -0.006 min

Lab File: VX033670.D

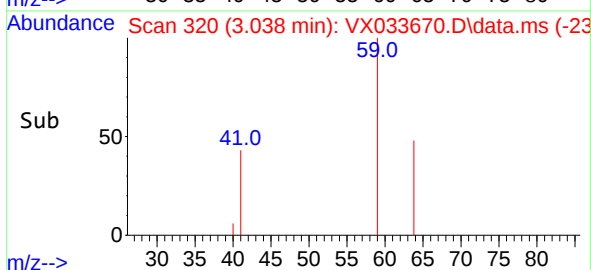
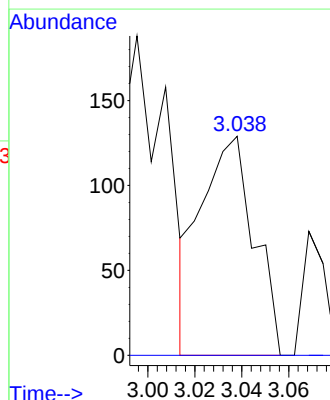
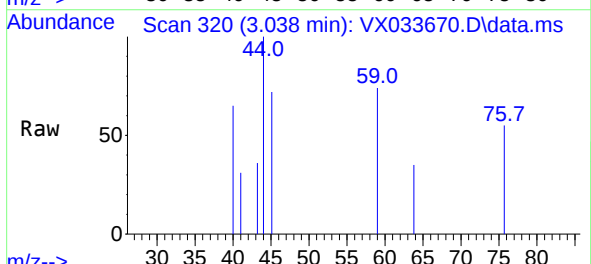
Acq: 09 Jan 2023 17:58

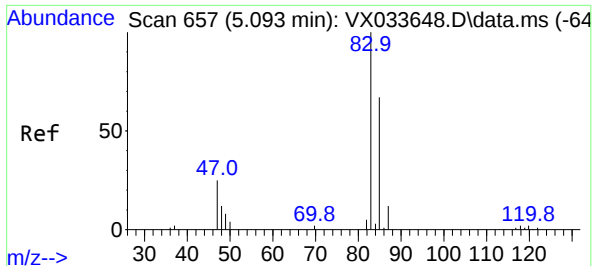
Tgt Ion: 59 Resp: 202

Ion Ratio Lower Upper

59 100

52 0.0 0.2 0.2#





#25

Chloroform

Concen: 0.518 ug/l

RT: 5.099 min Scan# 61

Delta R.T. 0.006 min

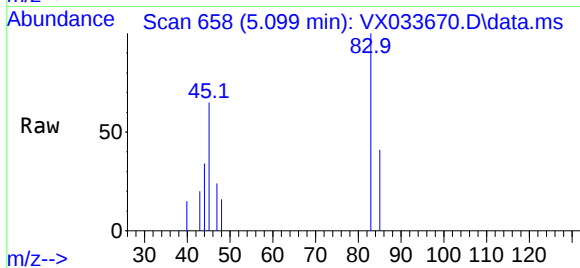
Lab File: VX033670.D

Acq: 09 Jan 2023 17:58

Instrument :

MSVOA_X

ClientSampleId :

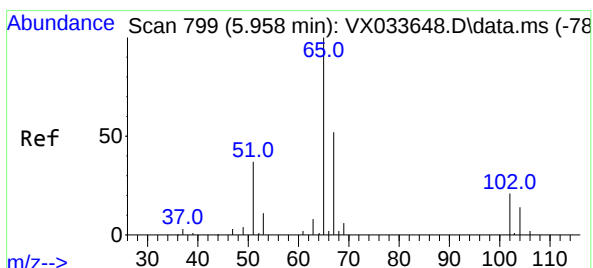
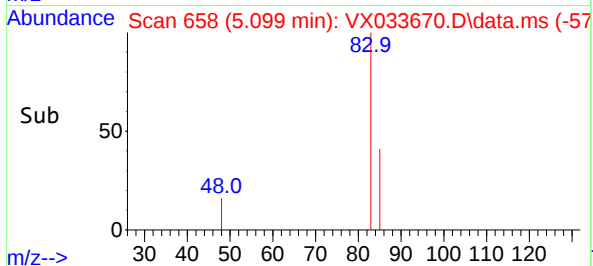
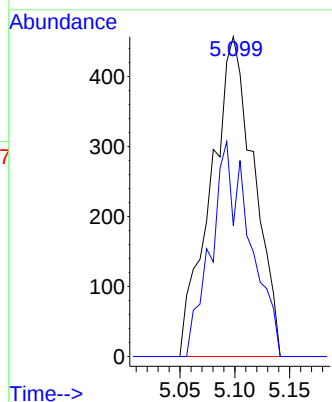


Tgt Ion: 83 Resp: 1254

Ion Ratio Lower Upper

83 100

85 40.9 53.9 80.9#



#27

1,2-Dichloroethane-d4

Concen: 32.954 ug/l

RT: 5.958 min Scan# 799

Delta R.T. -0.000 min

Lab File: VX033670.D

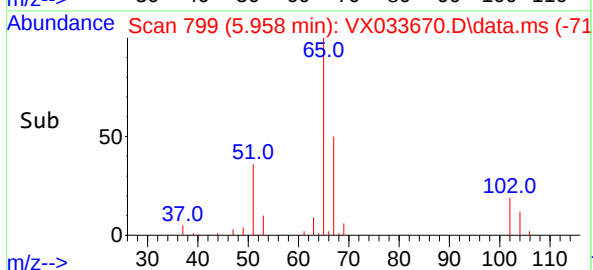
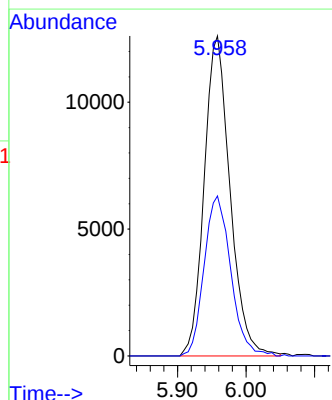
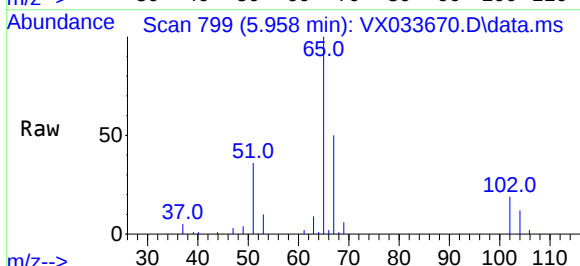
Acq: 09 Jan 2023 17:58

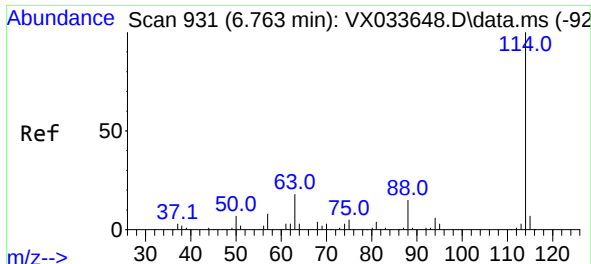
Tgt Ion: 65 Resp: 33079

Ion Ratio Lower Upper

65 100

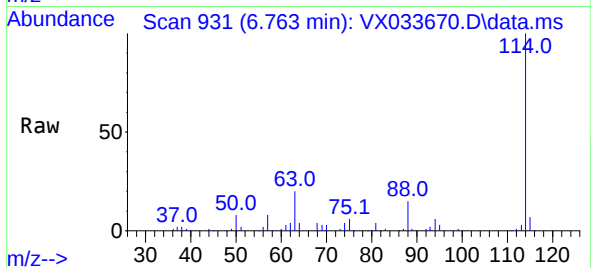
67 51.1 40.4 60.6



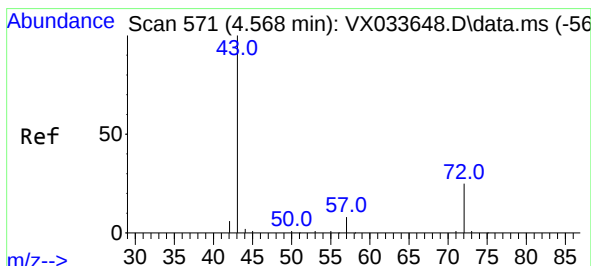
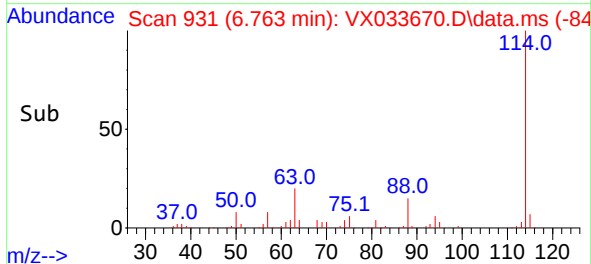
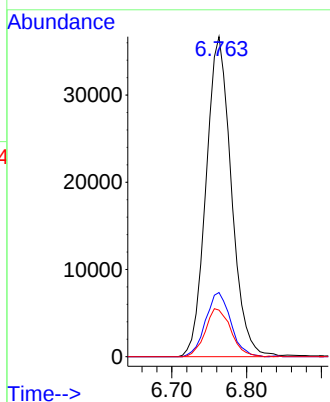


#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.763 min Scan# 91
Delta R.T. -0.000 min
Lab File: VX033670.D
Acq: 09 Jan 2023 17:58

Instrument :
MSVOA_X
ClientSampleId :

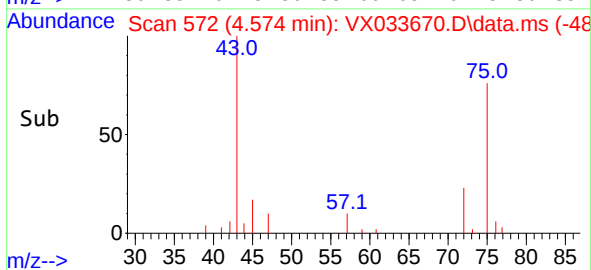
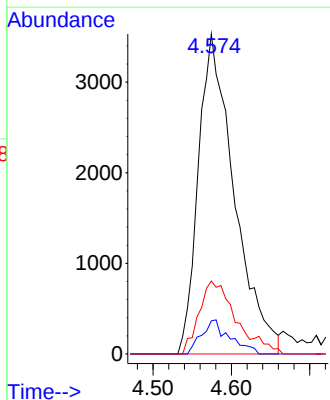
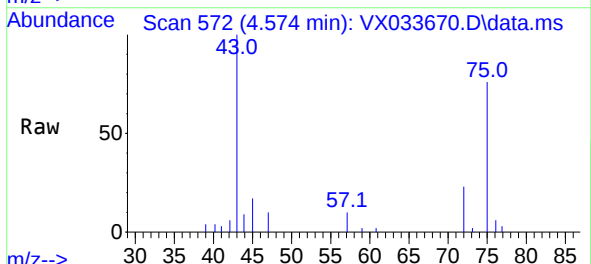


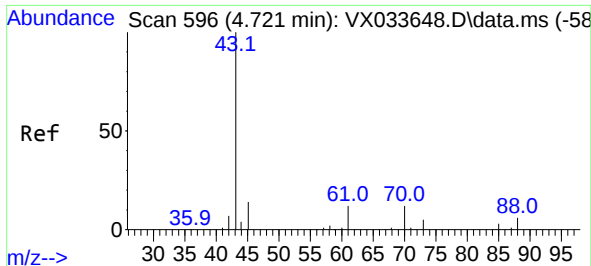
Tgt Ion:114 Resp: 86201
Ion Ratio Lower Upper
114 100
63 20.0 15.5 23.3
88 15.2 12.4 18.6



#30
2-Butanone
Concen: 11.557 ug/l
RT: 4.574 min Scan# 572
Delta R.T. 0.006 min
Lab File: VX033670.D
Acq: 09 Jan 2023 17:58

Tgt Ion: 43 Resp: 11246
Ion Ratio Lower Upper
43 100
57 8.3 3.4 5.2#
72 21.3 19.8 29.6

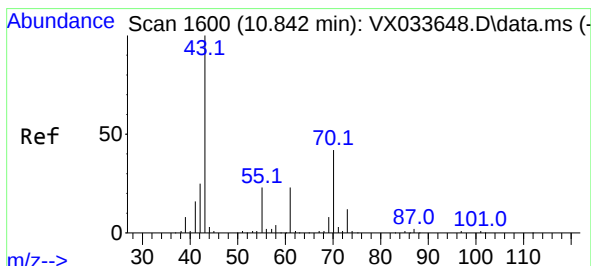
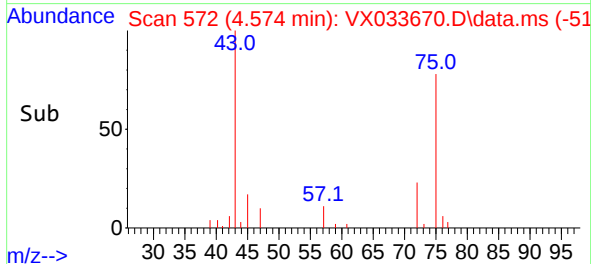
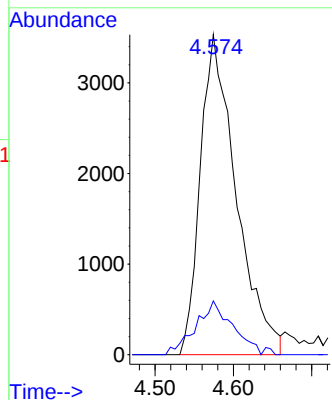
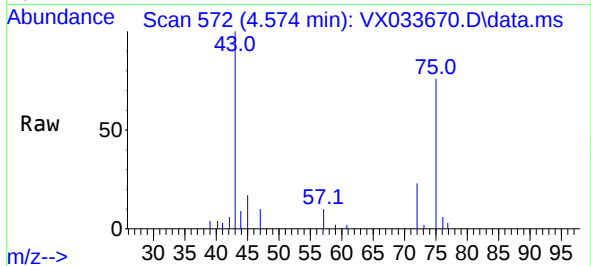




#43
Ethyl Acetate
Concen: 5.640 ug/l
RT: 4.574 min Scan# 51
Delta R.T. -0.146 min
Lab File: VX033670.D
Acq: 09 Jan 2023 17:58

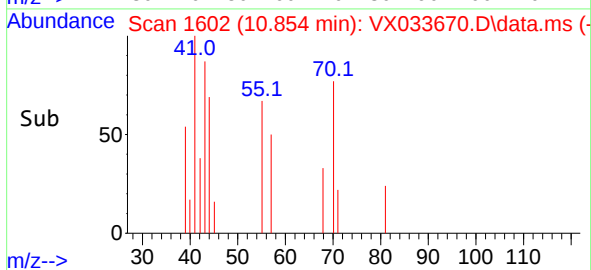
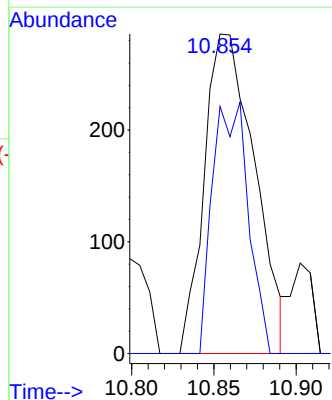
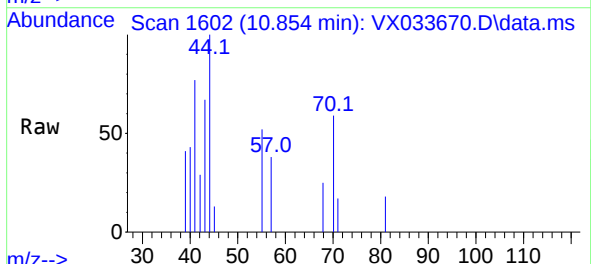
Instrument :
MSVOA_X
ClientSampleId :

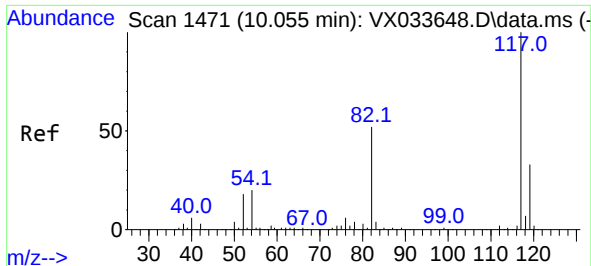
Tgt Ion: 43 Resp: 11246
Ion Ratio Lower Upper
43 100
45 11.4 11.2 16.8



#47
n-amyl Acetate
Concen: 0.228 ug/l
RT: 10.854 min Scan# 1602
Delta R.T. 0.012 min
Lab File: VX033670.D
Acq: 09 Jan 2023 17:58

Tgt Ion: 43 Resp: 607
Ion Ratio Lower Upper
43 100
55 56.0 19.3 28.9#





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. -0.000 min

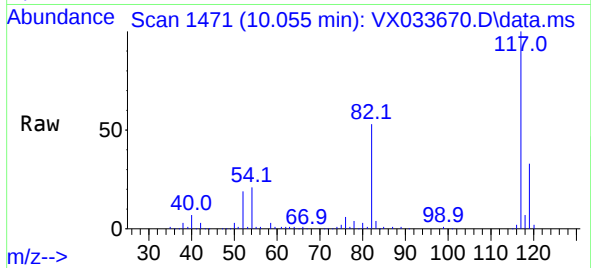
Lab File: VX033670.D

Acq: 09 Jan 2023 17:58

Instrument :

MSVOA_X

ClientSampleId :



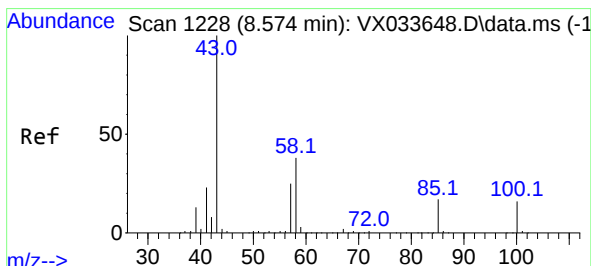
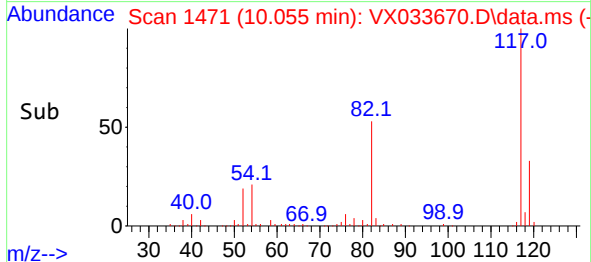
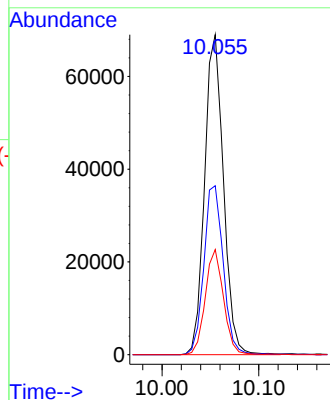
Tgt Ion:117 Resp: 93847

Ion Ratio Lower Upper

117 100

82 54.0 41.9 62.9

119 31.8 25.6 38.4



#58

4-Methyl-2-Pentanone

Concen: 3.828 ug/l

RT: 8.574 min Scan# 1228

Delta R.T. -0.000 min

Lab File: VX033670.D

Acq: 09 Jan 2023 17:58

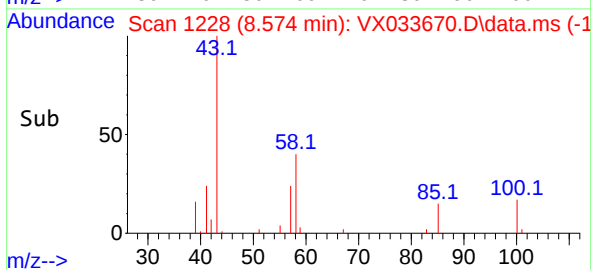
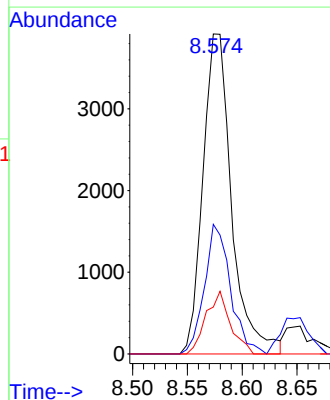
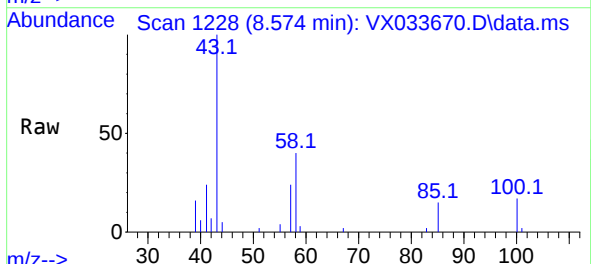
Tgt Ion: 43 Resp: 7137

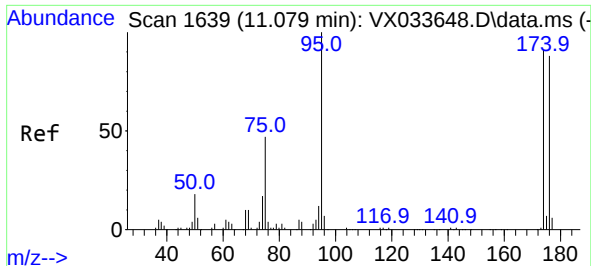
Ion Ratio Lower Upper

43 100

58 36.7 30.2 45.4

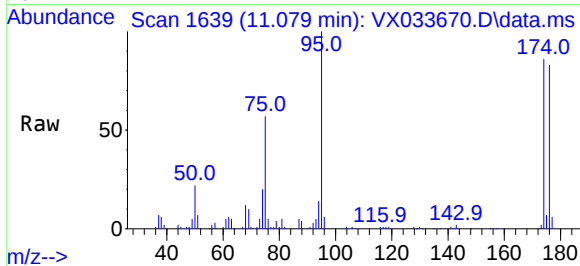
85 16.6 13.8 20.8





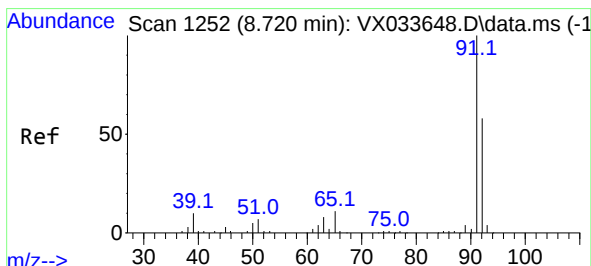
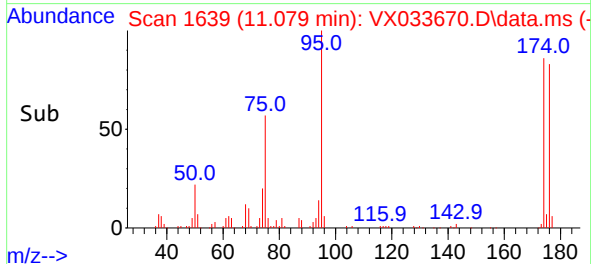
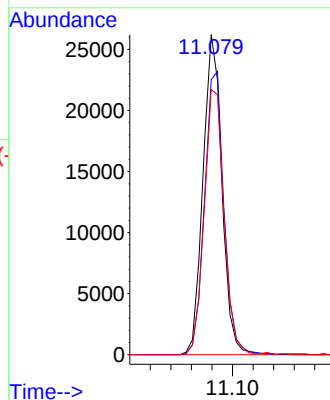
#60
 4-Bromofluorobenzene
 Concen: 19.852 ug/l
 RT: 11.079 min Scan# 1639
 Delta R.T. -0.000 min
 Lab File: VX033670.D
 Acq: 09 Jan 2023 17:58

Instrument :
 MSVOA_X
 ClientSampleId :



Tgt Ion: 95 Resp: 33579

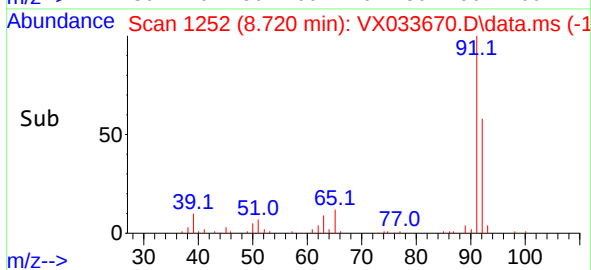
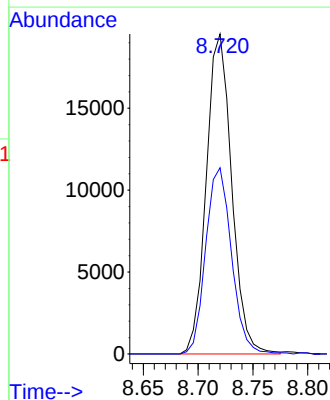
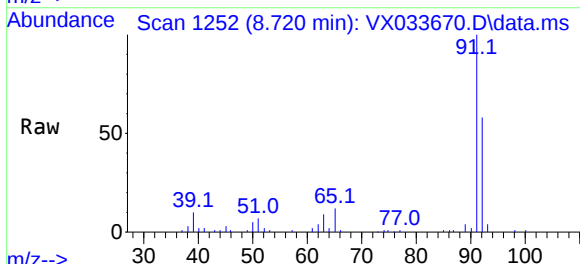
Ion	Ratio	Lower	Upper
95	100		
174	91.1	73.7	110.5
176	86.7	71.0	106.4

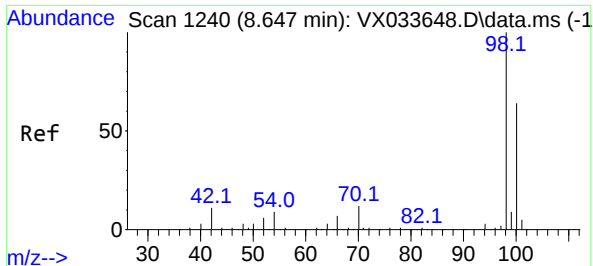


#62
 Toluene
 Concen: 5.336 ug/l
 RT: 8.720 min Scan# 1252
 Delta R.T. -0.000 min
 Lab File: VX033670.D
 Acq: 09 Jan 2023 17:58

Tgt Ion: 91 Resp: 31521

Ion	Ratio	Lower	Upper
91	100		
92	58.9	45.8	68.8

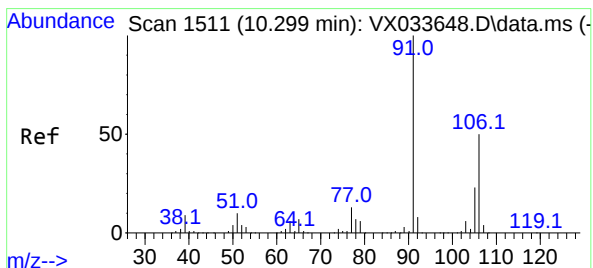
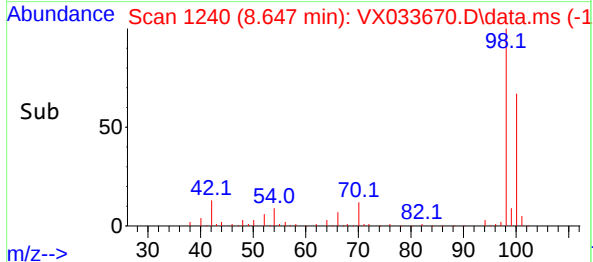
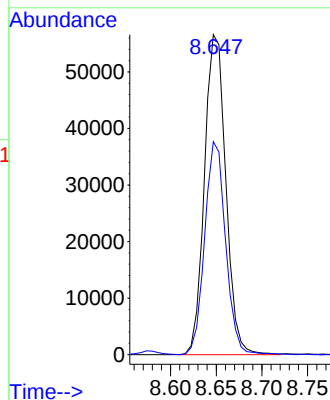
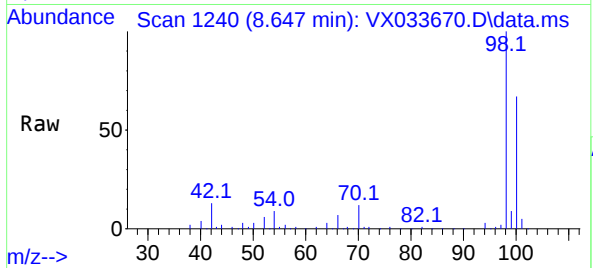




#63
Toluene-d8
Concen: 30.582 ug/l
RT: 8.647 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX033670.D
Acq: 09 Jan 2023 17:58

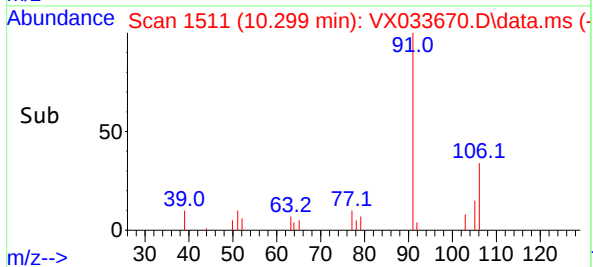
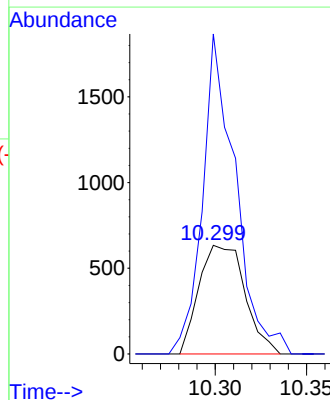
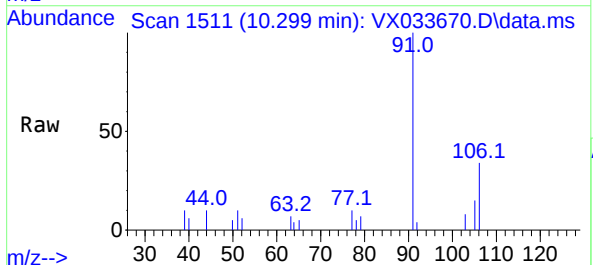
Instrument :
MSVOA_X
ClientSampleId :

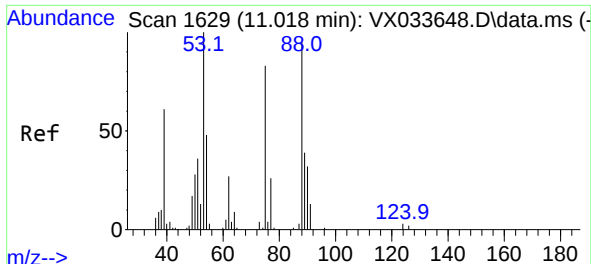
Tgt Ion: 98 Resp: 91851
Ion Ratio Lower Upper
98 100
100 65.2 53.1 79.7



#67
m/p-Xylenes
Concen: 0.427 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX033670.D
Acq: 09 Jan 2023 17:58

Tgt Ion: 106 Resp: 1111
Ion Ratio Lower Upper
106 100
91 209.5 157.3 235.9





#77

t-1,4-Dichloro-2-butene

Concen: 33.755 ug/l

RT: 11.079 min Scan# 1

Delta R.T. 0.061 min

Lab File: VX033670.D

Acq: 09 Jan 2023 17:58

Instrument :

MSVOA_X

ClientSampleId :

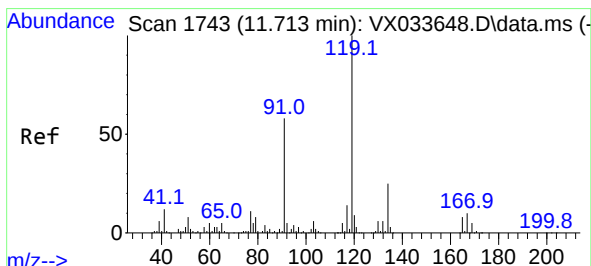
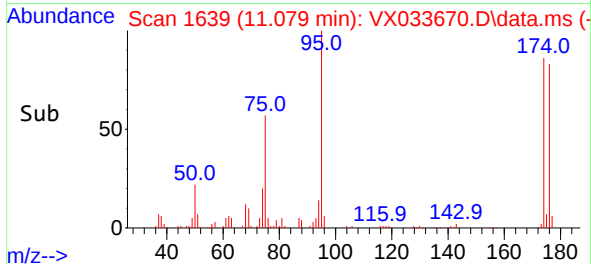
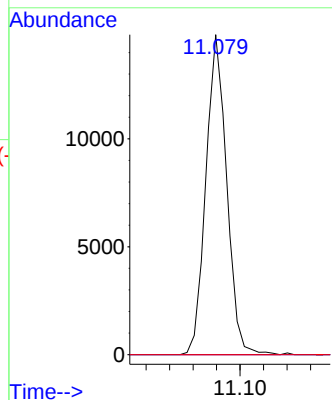
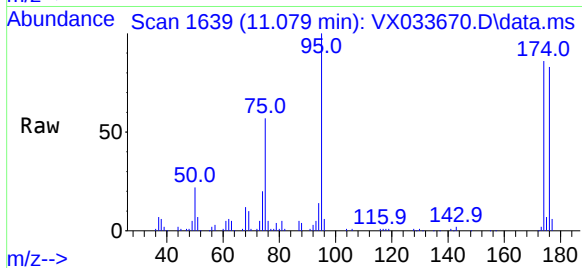
Tgt Ion: 75 Resp: 18232

Ion Ratio Lower Upper

75 100

53 0.0 60.2 180.6#

89 0.0 23.2 69.6#



#79

tert-butylbenzene

Concen: 0.232 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. 0.293 min

Lab File: VX033670.D

Acq: 09 Jan 2023 17:58

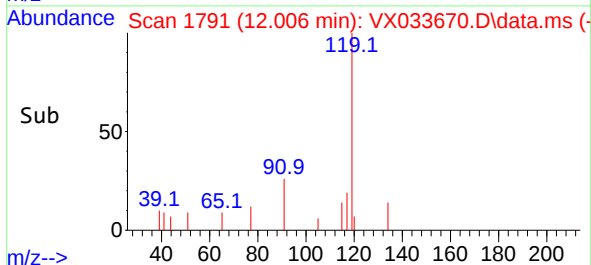
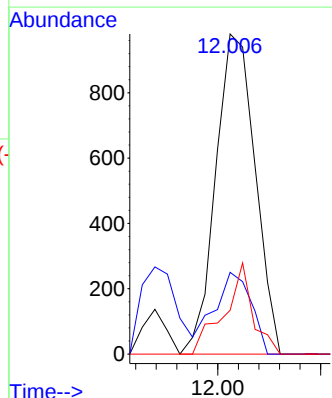
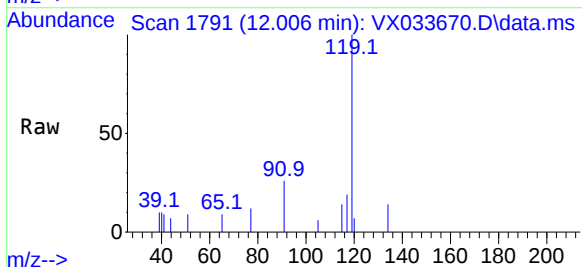
Tgt Ion: 119 Resp: 1308

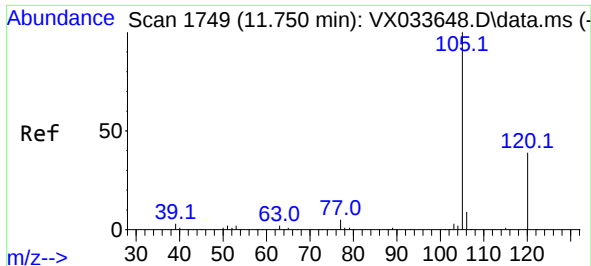
Ion Ratio Lower Upper

119 100

91 24.0 0.0 111.0

134 20.6 0.0 49.2

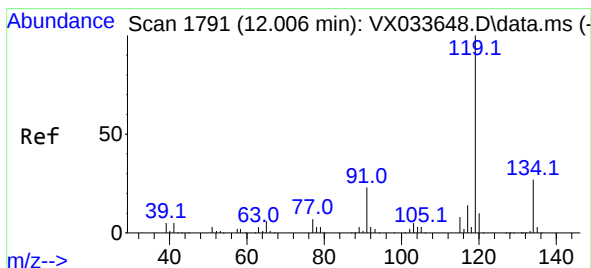
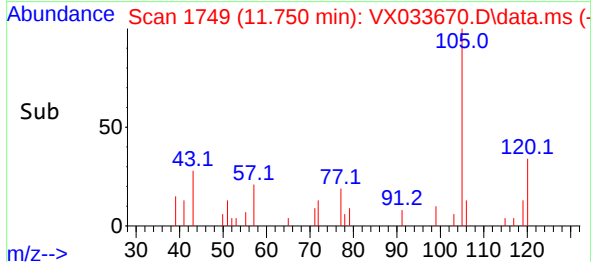
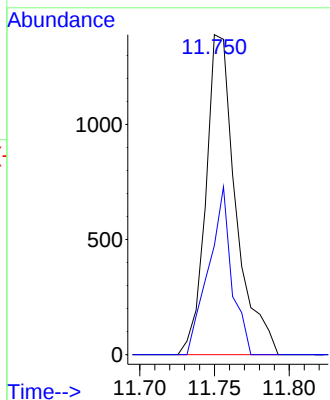
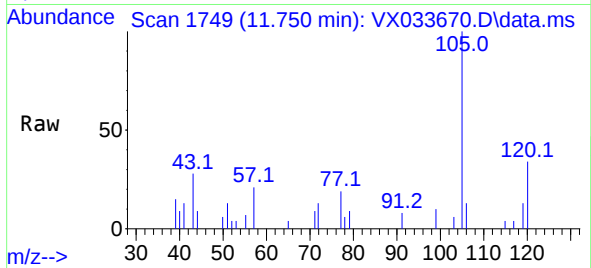




#80
1,2,4-Trimethylbenzene
Concen: 0.357 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX033670.D
Acq: 09 Jan 2023 17:58

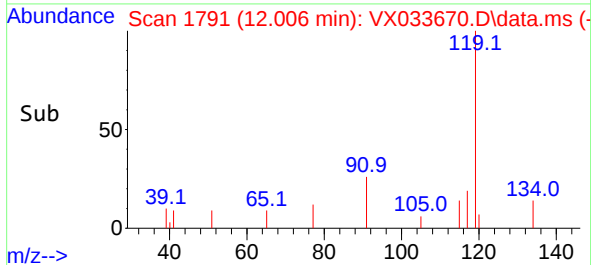
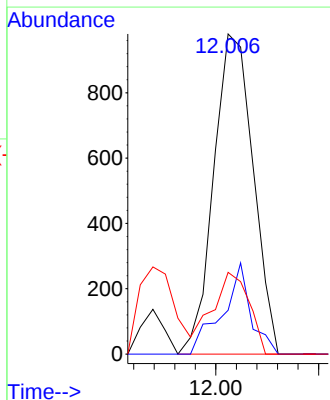
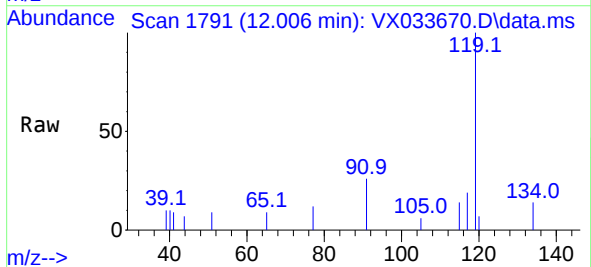
Instrument :
MSVOA_X
ClientSampleId :

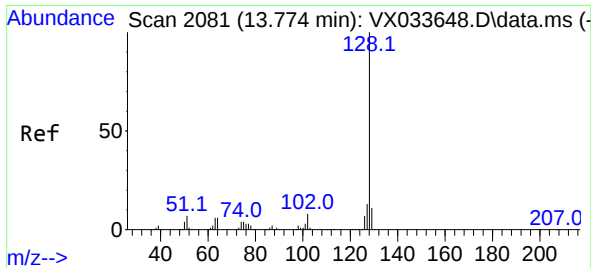
Tgt Ion:105 Resp: 1939
Ion Ratio Lower Upper
105 100
120 40.1 0.0 91.2



#82
p-Isopropyltoluene
Concen: 0.222 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX033670.D
Acq: 09 Jan 2023 17:58

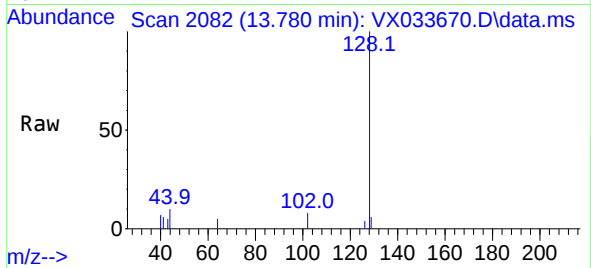
Tgt Ion:119 Resp: 1308
Ion Ratio Lower Upper
119 100
134 20.6 0.0 54.4
91 24.0 0.0 45.2





#91
Naphthalene
Concen: 0.249 ug/l
RT: 13.780 min Scan# 20
Delta R.T. 0.006 min
Lab File: VX033670.D
Acq: 09 Jan 2023 17:58

Instrument :
MSVOA_X
ClientSampleId :



Tgt Ion:128 Resp: 1546
Ion Ratio Lower Upper
128 100
127 3.0 10.4 15.6#
129 3.1 8.8 13.2#

