

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010923\
 Data File : VX033669.D
 Acq On : 09 Jan 2023 17:35
 Operator : JC/MD
 Sample : 01059-01RE
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jan 10 00:48:22 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)

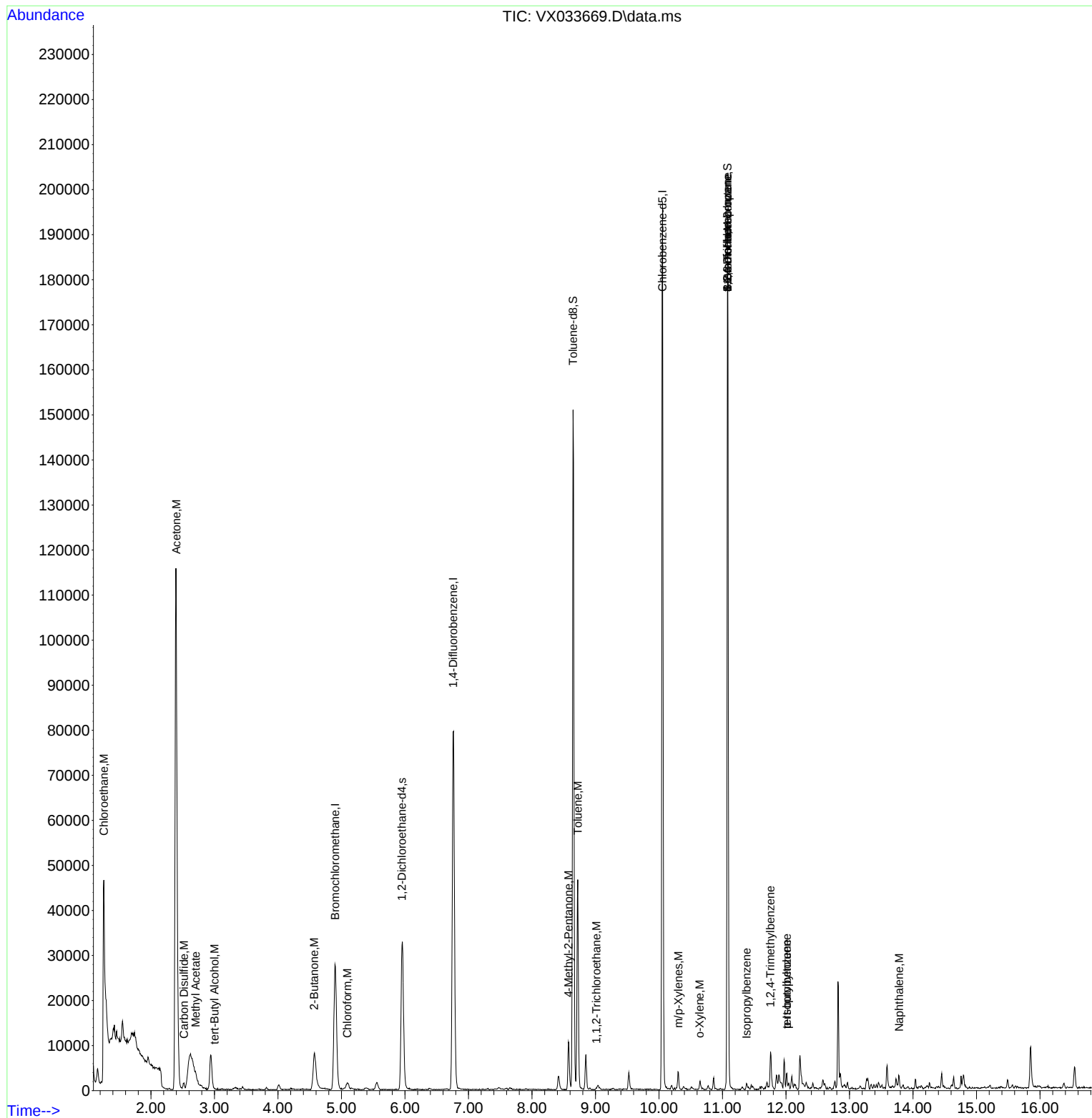
Internal Standards						
1) Bromochloromethane	4.898	128	12062	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	84890	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	91824	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	33080	33.870	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	112.900%#
60) 4-Bromofluorobenzene	11.079	95	49211	29.735	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	99.133%
63) Toluene-d8	8.647	98	89892	30.589	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	101.967%
Target Compounds						
						Qvalue
6) Chloroethane	1.258	64	77699	108.621	ug/l #	50
12) Methyl Acetate	2.703	43	1408	0.730	ug/l #	84
15) Acetone	2.398	58	44398	308.386	ug/l	97
16) Carbon Disulfide	2.520	76	1921	0.716	ug/l	99
23) tert-Butyl Alcohol	3.002	59	172	0.685	ug/l #	100
25) Chloroform	5.093	83	712	0.302	ug/l #	79
30) 2-Butanone	4.568	43	11228	11.717	ug/l #	57
50) 1,1,2-Trichloroethane	9.013	97	345	0.248	ug/l #	17
56) Bromoform	11.079	173	257	0.221	ug/l #	1
58) 4-Methyl-2-Pentanone	8.574	43	7113	3.900	ug/l	97
62) Toluene	8.720	91	30033	5.196	ug/l	99
67) m/p-Xylenes	10.305	106	981	0.386	ug/l	77
68) o-Xylene	10.640	106	546	0.218	ug/l	79
70) Isopropylbenzene	11.378	105	1383	0.214	ug/l	97
72) 1,2,3-Trichloropropane	11.079	75	24658	13.959	ug/l	40
77) t-1,4-Dichloro-2-butene	11.079	75	24658	46.657	ug/l #	3
79) tert-butylbenzene	12.012	119	1707	0.310	ug/l	67
80) 1,2,4-Trimethylbenzene	11.756	105	2401	0.452	ug/l	91
82) p-Isopropyltoluene	12.012	119	1707	0.297	ug/l	98
91) Naphthalene	13.780	128	1979	0.325	ug/l	97

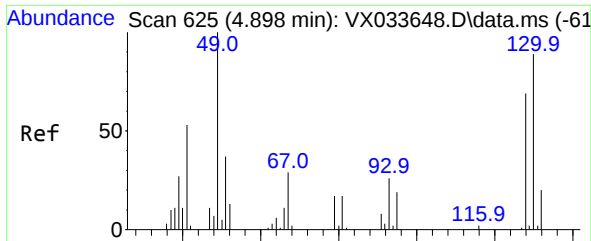
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010923\
Data File : VX033669.D
Acq On : 09 Jan 2023 17:35
Operator : JC/MD
Sample : 01059-01RE
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :

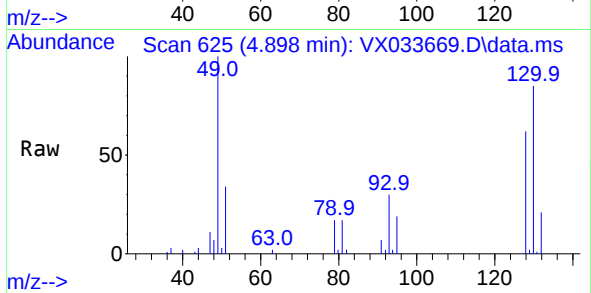
Quant Time: Jan 10 00:48:22 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X010723W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Jan 07 06:16:21 2023
Response via : Initial Calibration



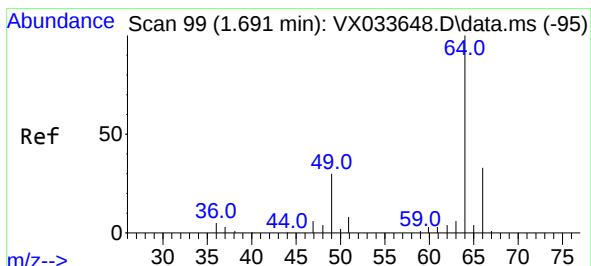
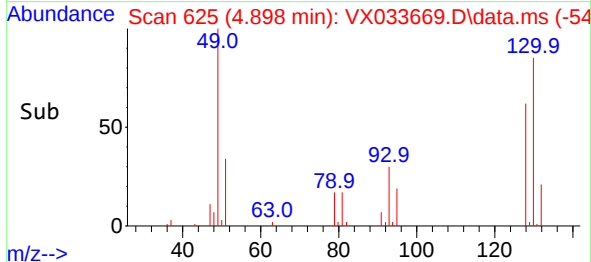
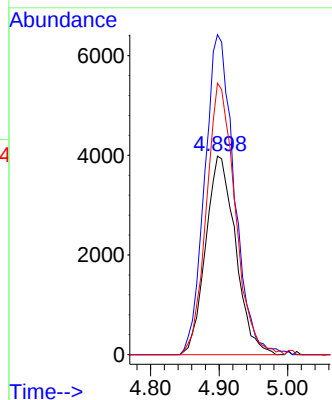


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.898 min Scan# 61
Delta R.T. -0.000 min
Lab File: VX033669.D
Acq: 09 Jan 2023 17:35

Instrument :
MSVOA_X
ClientSampleId :

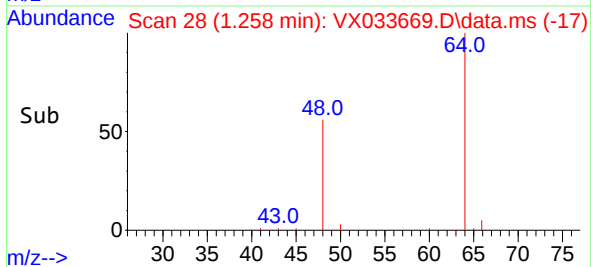
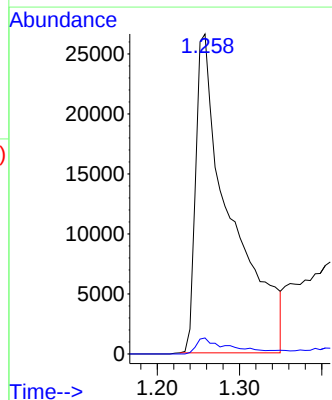
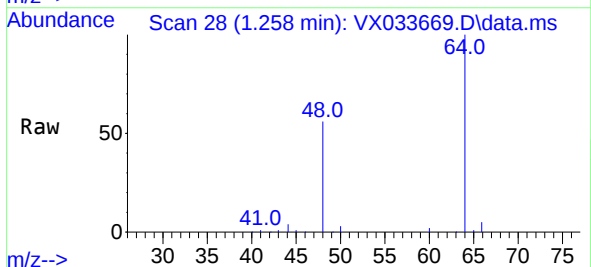


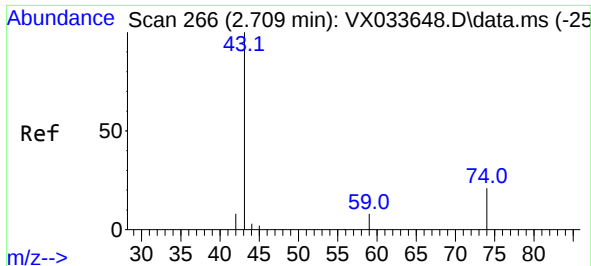
Tgt Ion:128 Resp: 12062
Ion Ratio Lower Upper
128 100
49 158.7 0.0 398.5
130 132.1 0.0 329.0



#6
Chloroethane
Concen: 108.621 ug/l
RT: 1.258 min Scan# 28
Delta R.T. -0.433 min
Lab File: VX033669.D
Acq: 09 Jan 2023 17:35

Tgt Ion: 64 Resp: 77699
Ion Ratio Lower Upper
64 100
66 5.0 26.6 40.0#

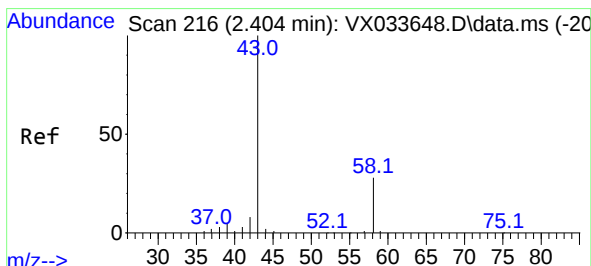
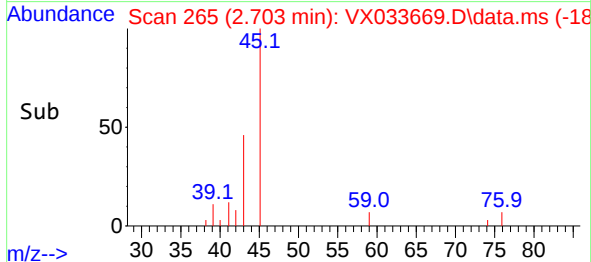
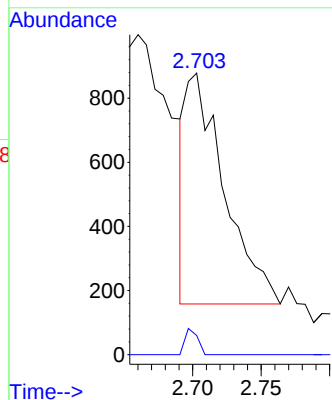
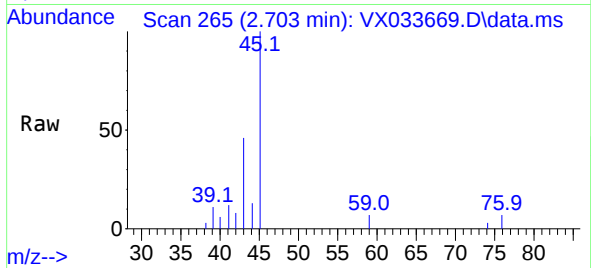




#12
Methyl Acetate
Concen: 0.730 ug/l
RT: 2.703 min Scan# 215
Delta R.T. -0.006 min
Lab File: VX033669.D
Acq: 09 Jan 2023 17:35

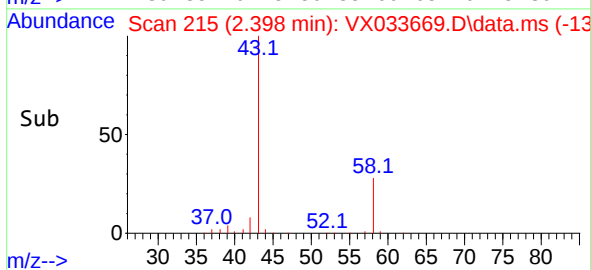
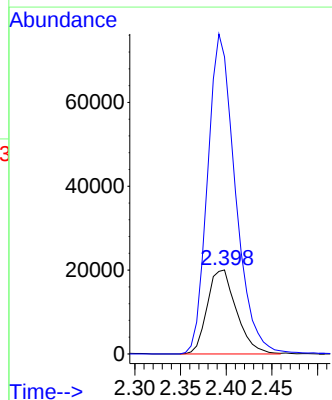
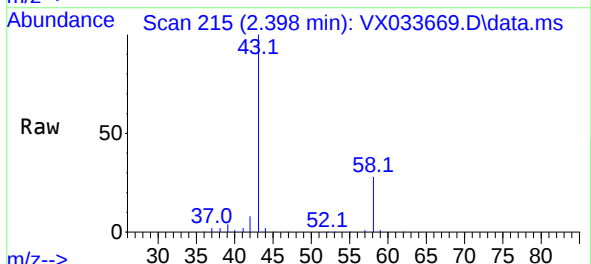
Instrument :
MSVOA_X
ClientSampleId :

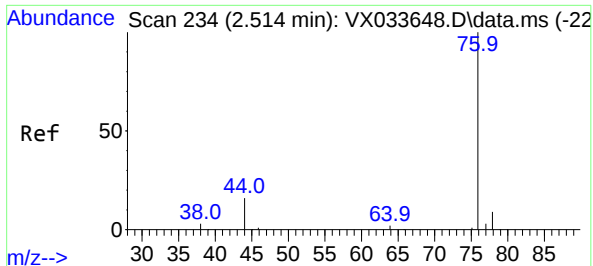
Tgt Ion: 43 Resp: 1408
Ion Ratio Lower Upper
43 100
74 13.9 17.0 25.6#



#15
Acetone
Concen: 308.386 ug/l
RT: 2.398 min Scan# 215
Delta R.T. -0.006 min
Lab File: VX033669.D
Acq: 09 Jan 2023 17:35

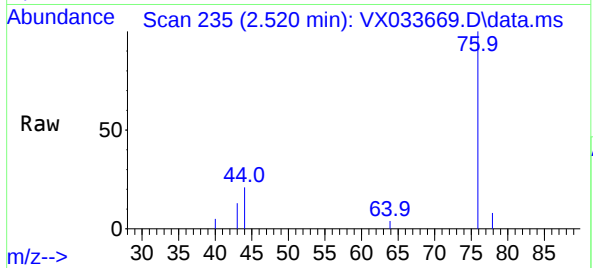
Tgt Ion: 58 Resp: 44398
Ion Ratio Lower Upper
58 100
43 353.6 288.3 432.5



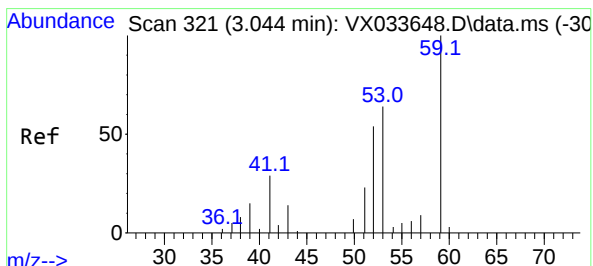
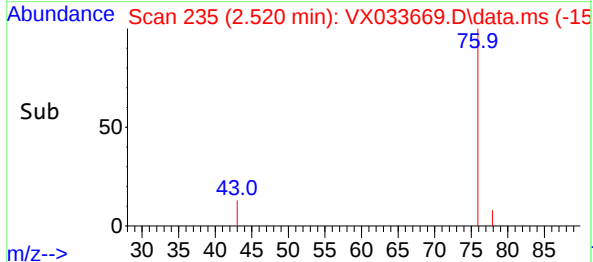
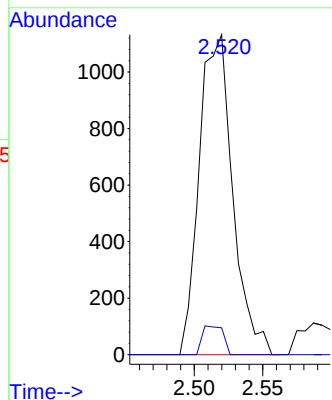


#16
Carbon Disulfide
Concen: 0.716 ug/l
RT: 2.520 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX033669.D
Acq: 09 Jan 2023 17:35

Instrument :
MSVOA_X
ClientSampleId :

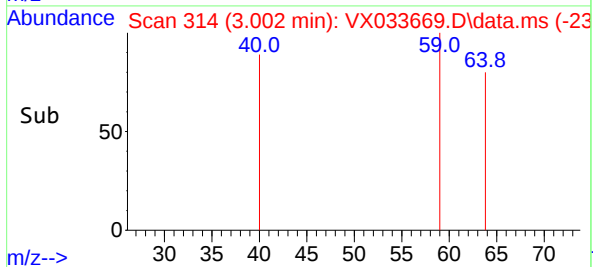
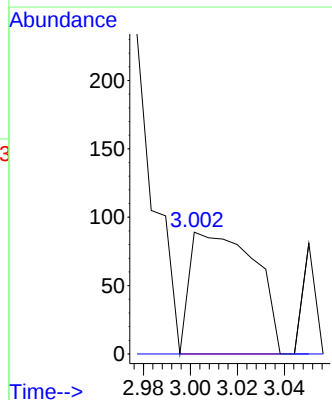
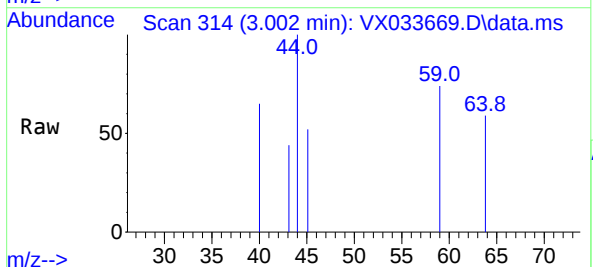


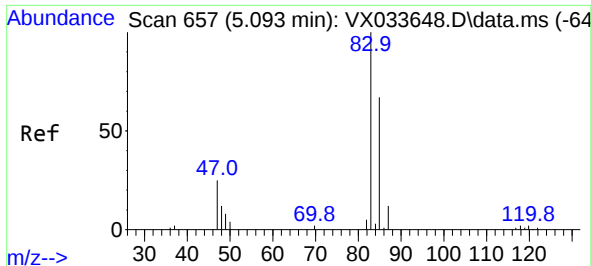
Tgt Ion: 76 Resp: 1921
Ion Ratio Lower Upper
76 100
78 8.4 7.0 10.4



#23
tert-Butyl Alcohol
Concen: 0.685 ug/l
RT: 3.002 min Scan# 314
Delta R.T. -0.043 min
Lab File: VX033669.D
Acq: 09 Jan 2023 17:35

Tgt Ion: 59 Resp: 172
Ion Ratio Lower Upper
59 100
52 0.0 0.2 0.2#





#25

Chloroform

Concen: 0.302 ug/l

RT: 5.093 min Scan# 61

Delta R.T. 0.000 min

Lab File: VX033669.D

Acq: 09 Jan 2023 17:35

Instrument :

MSVOA_X

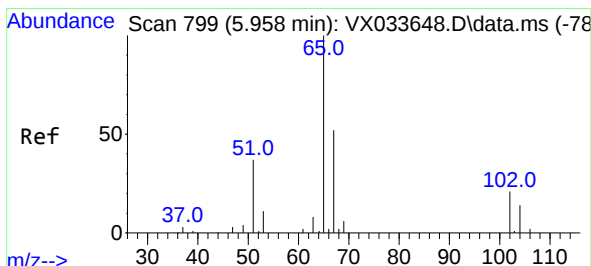
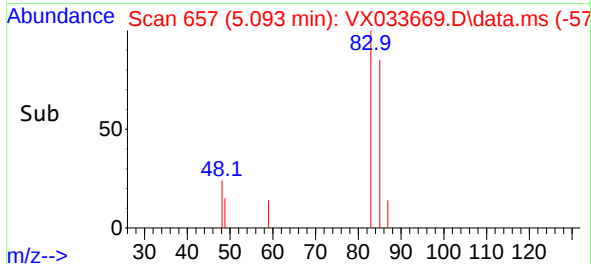
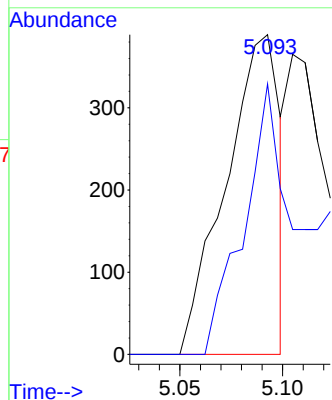
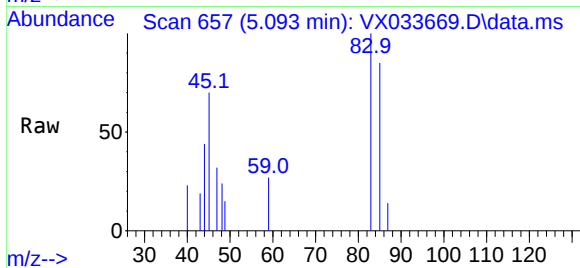
ClientSampleId :

Tgt Ion: 83 Resp: 712

Ion Ratio Lower Upper

83 100

85 84.6 53.9 80.9#



#27

1,2-Dichloroethane-d4

Concen: 33.870 ug/l

RT: 5.952 min Scan# 798

Delta R.T. -0.006 min

Lab File: VX033669.D

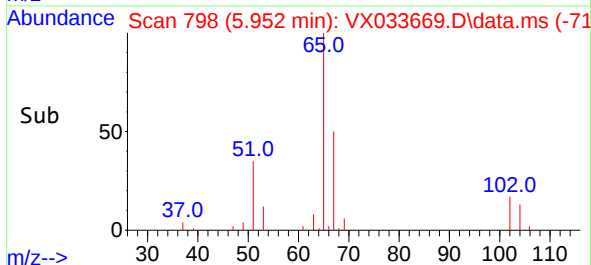
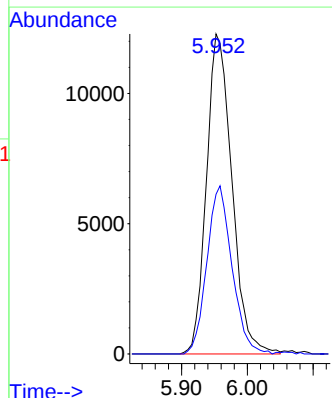
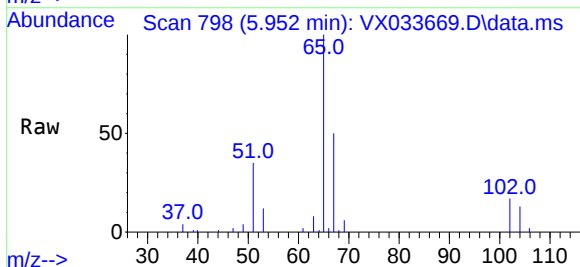
Acq: 09 Jan 2023 17:35

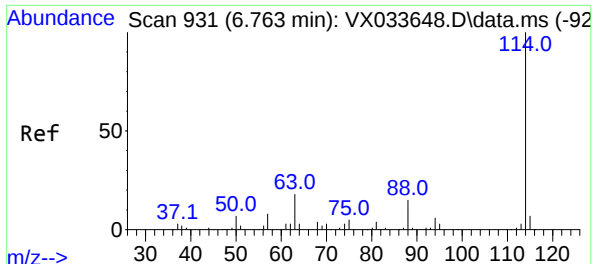
Tgt Ion: 65 Resp: 33080

Ion Ratio Lower Upper

65 100

67 51.7 40.4 60.6

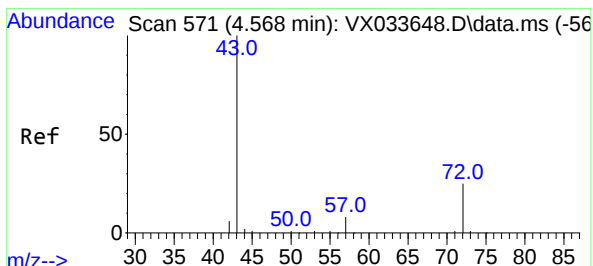
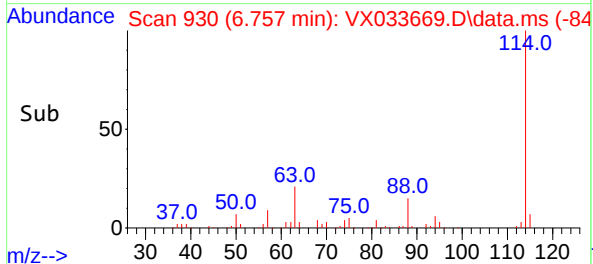
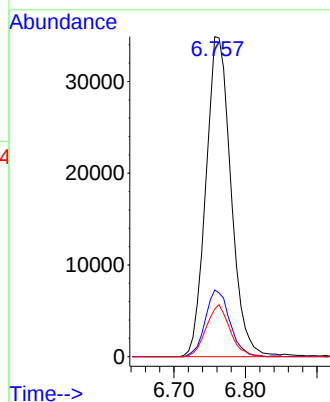
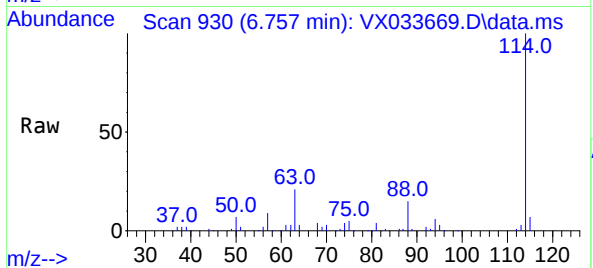




#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.757 min Scan# 91
Delta R.T. -0.006 min
Lab File: VX033669.D
Acq: 09 Jan 2023 17:35

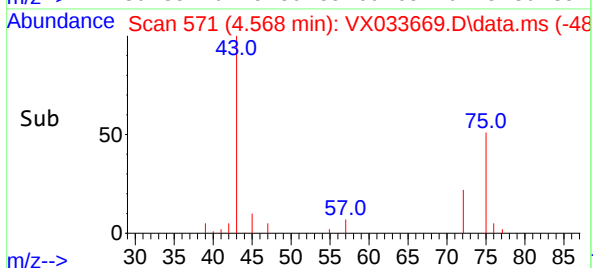
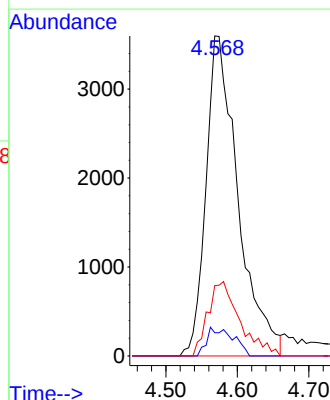
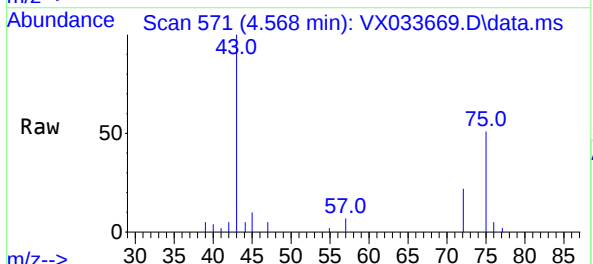
Instrument :
MSVOA_X
ClientSampleId :

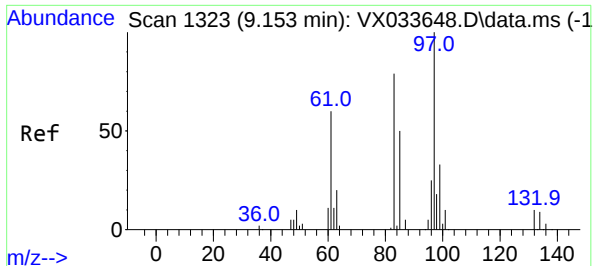
Tgt Ion:114 Resp: 84890
Ion Ratio Lower Upper
114 100
63 20.4 15.5 23.3
88 15.3 12.4 18.6



#30
2-Butanone
Concen: 11.717 ug/l
RT: 4.568 min Scan# 571
Delta R.T. 0.000 min
Lab File: VX033669.D
Acq: 09 Jan 2023 17:35

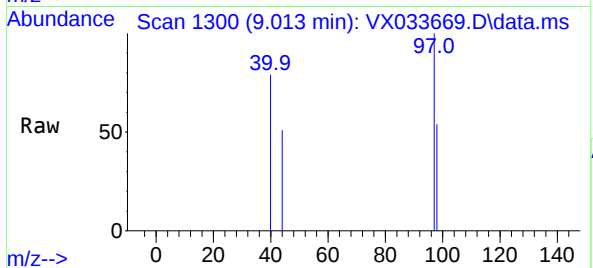
Tgt Ion: 43 Resp: 11228
Ion Ratio Lower Upper
43 100
57 2.6 3.4 5.2#
72 0.0 19.8 29.6#





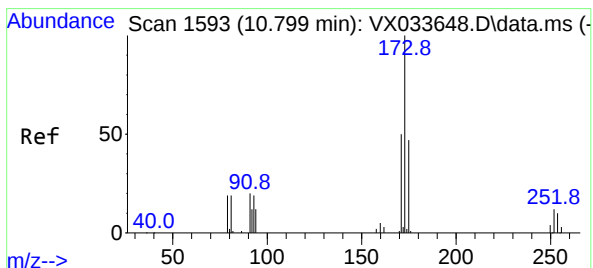
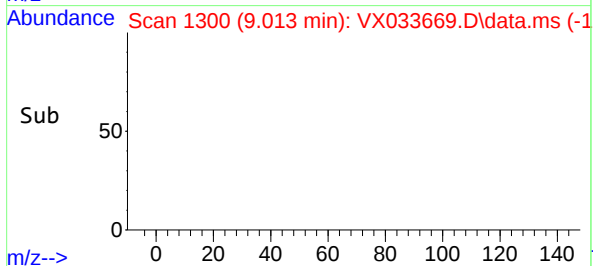
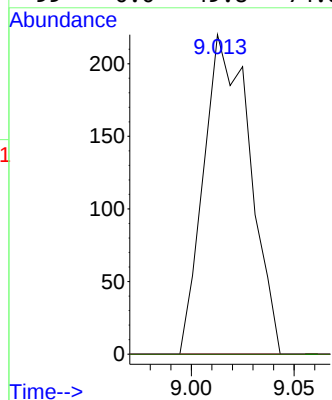
#50
1,1,2-Trichloroethane
Concen: 0.248 ug/l
RT: 9.013 min Scan# 11
Delta R.T. -0.140 min
Lab File: VX033669.D
Acq: 09 Jan 2023 17:35

Instrument :
MSVOA_X
ClientSampleId :



Tgt Ion: 97 Resp: 345

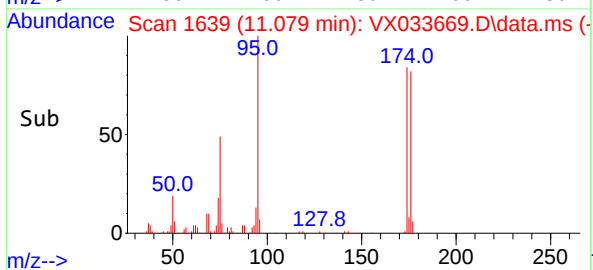
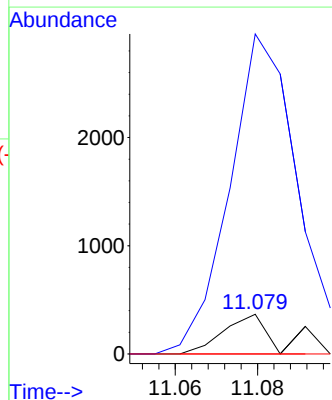
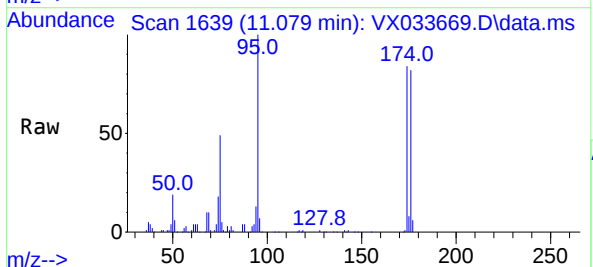
Ion	Ratio	Lower	Upper
97	100		
83	0.0	63.0	94.4#
85	0.0	42.8	64.2#
99	0.0	49.8	74.8#

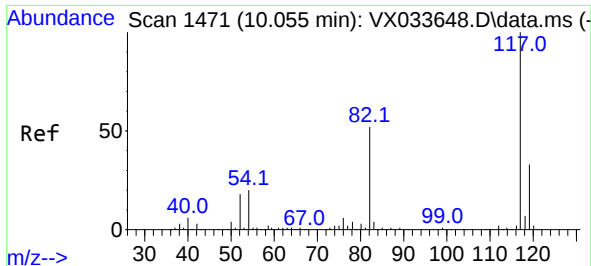


#56
Bromoform
Concen: 0.221 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.281 min
Lab File: VX033669.D
Acq: 09 Jan 2023 17:35

Tgt Ion: 173 Resp: 257

Ion	Ratio	Lower	Upper
173	100		
175	1335.8	38.2	57.4#
254	0.0	8.6	13.0#





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VX033669.D

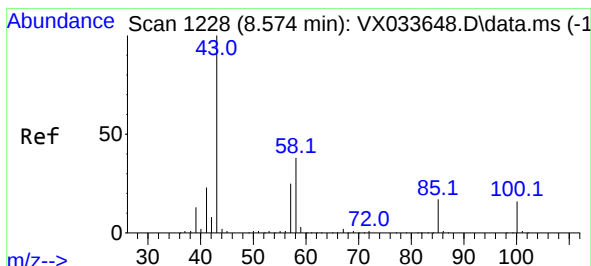
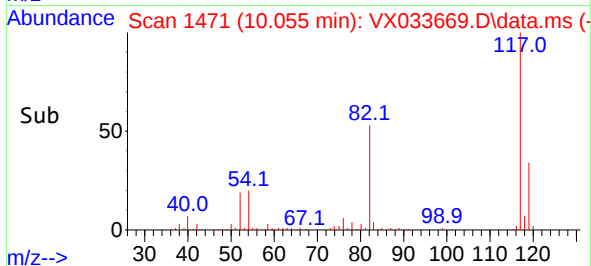
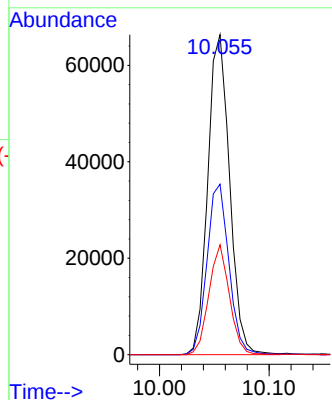
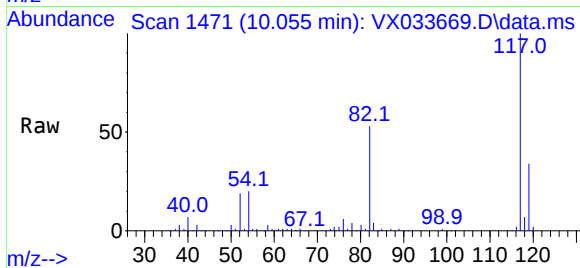
Acq: 09 Jan 2023 17:35

Instrument :

MSVOA_X

ClientSampleId :

Tgt Ion:117	Resp:	91824
Ion	Ratio	Lower Upper
117	100	
82	53.8	41.9 62.9
119	32.5	25.6 38.4



#58

4-Methyl-2-Pentanone

Concen: 3.900 ug/l

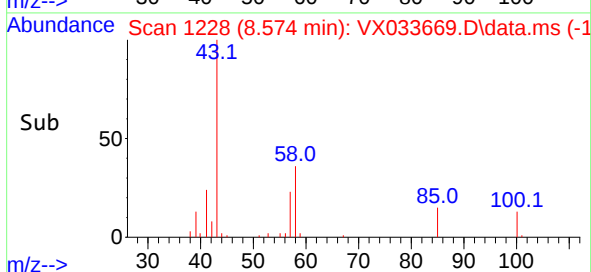
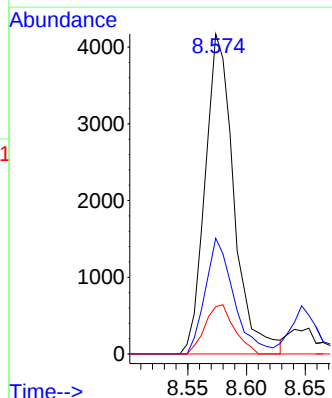
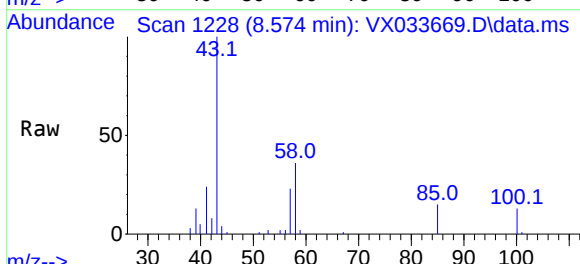
RT: 8.574 min Scan# 1228

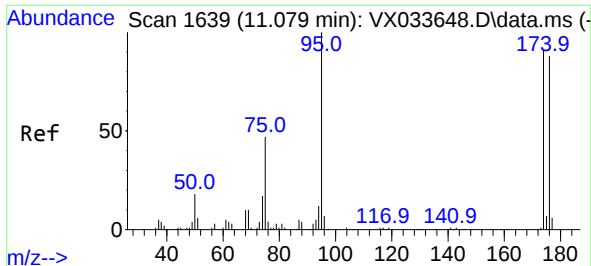
Delta R.T. 0.000 min

Lab File: VX033669.D

Acq: 09 Jan 2023 17:35

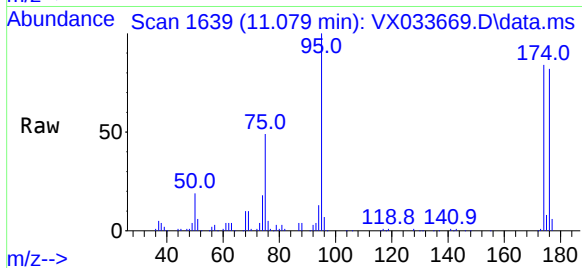
Tgt Ion: 43	Resp:	7113
Ion	Ratio	Lower Upper
43	100	
58	35.9	30.2 45.4
85	15.6	13.8 20.8



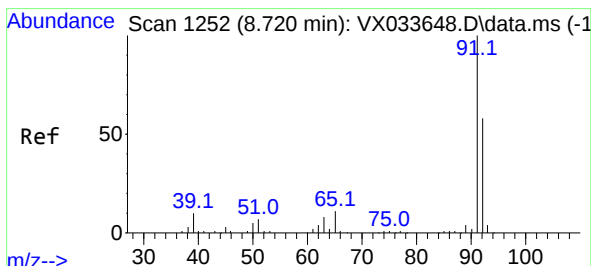
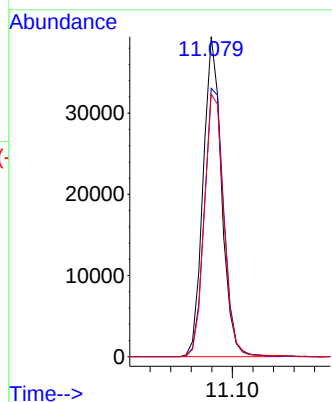


#60
4-Bromofluorobenzene
Concen: 29.735 ug/l
RT: 11.079 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX033669.D
Acq: 09 Jan 2023 17:35

Instrument :
MSVOA_X
ClientSampleId :

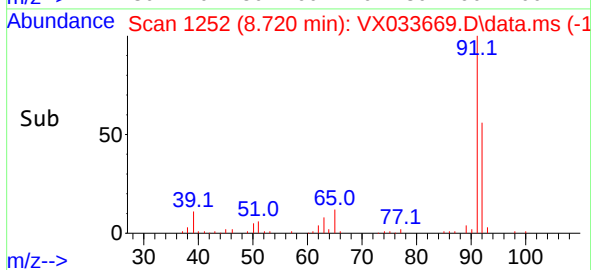
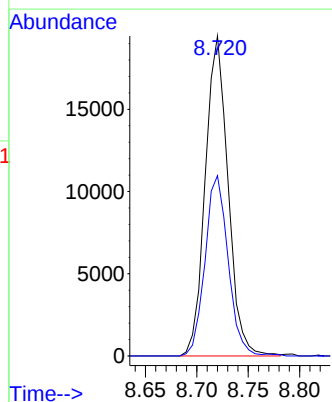
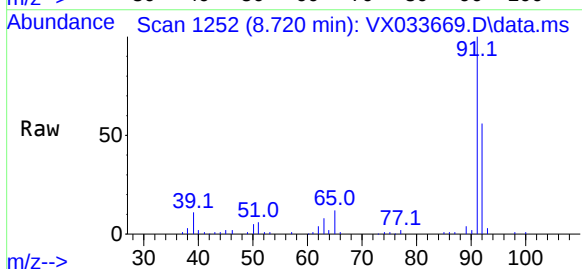


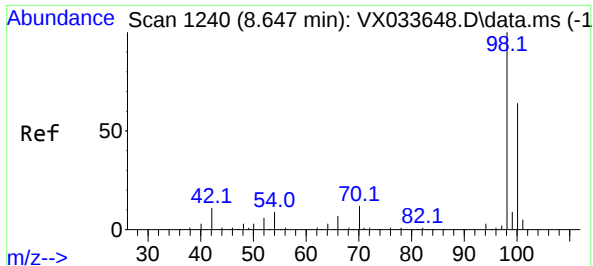
Tgt Ion: 95 Resp: 49211
Ion Ratio Lower Upper
95 100
174 89.3 73.7 110.5
176 86.9 71.0 106.4



#62
Toluene
Concen: 5.196 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX033669.D
Acq: 09 Jan 2023 17:35

Tgt Ion: 91 Resp: 30033
Ion Ratio Lower Upper
91 100
92 56.8 45.8 68.8





#63

Toluene-d8

Concen: 30.589 ug/l

RT: 8.647 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX033669.D

Acq: 09 Jan 2023 17:35

Instrument :

MSVOA_X

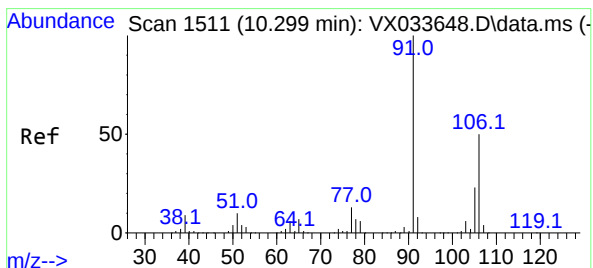
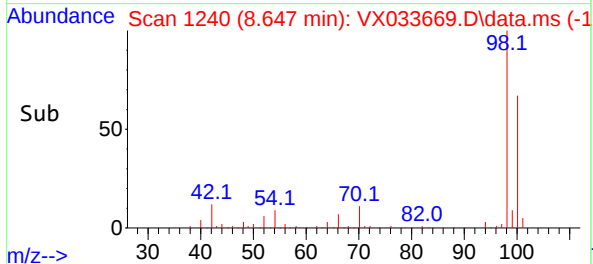
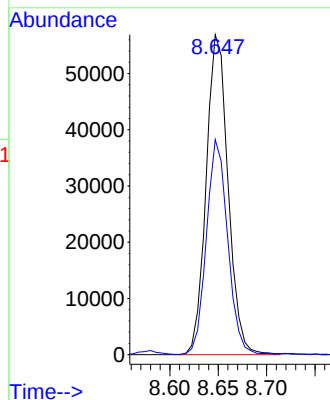
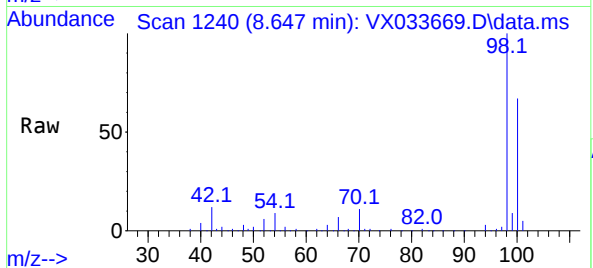
ClientSampleId :

Tgt Ion: 98 Resp: 89892

Ion Ratio Lower Upper

98 100

100 65.1 53.1 79.7



#67

m/p-Xylenes

Concen: 0.386 ug/l

RT: 10.305 min Scan# 1512

Delta R.T. 0.006 min

Lab File: VX033669.D

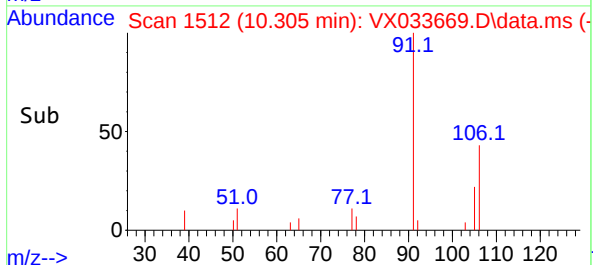
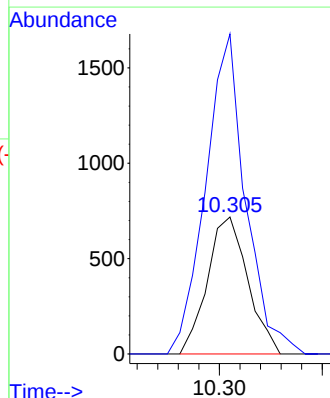
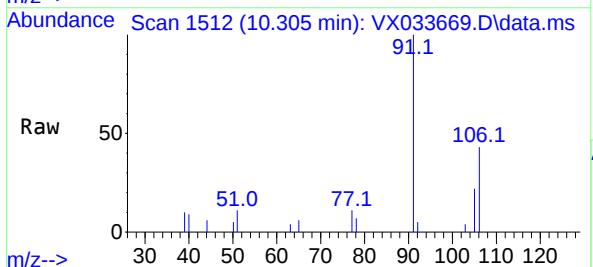
Acq: 09 Jan 2023 17:35

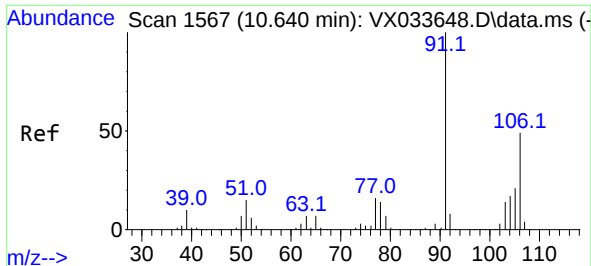
Tgt Ion:106 Resp: 981

Ion Ratio Lower Upper

106 100

91 231.1 157.3 235.9

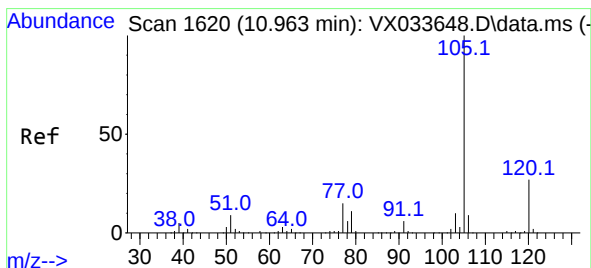
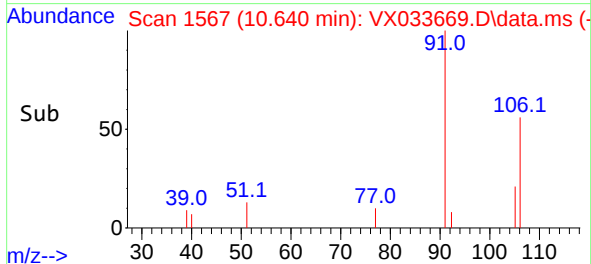
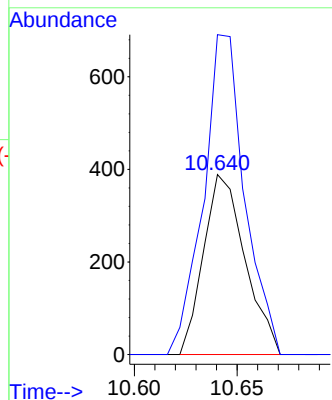
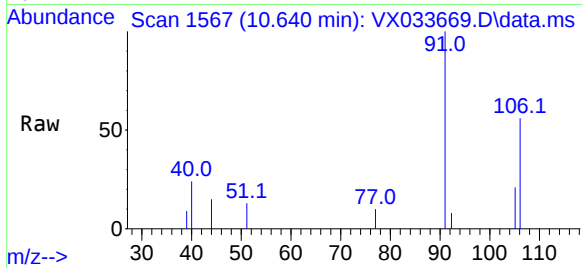




#68
o-Xylene
Concen: 0.218 ug/l
RT: 10.640 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX033669.D
Acq: 09 Jan 2023 17:35

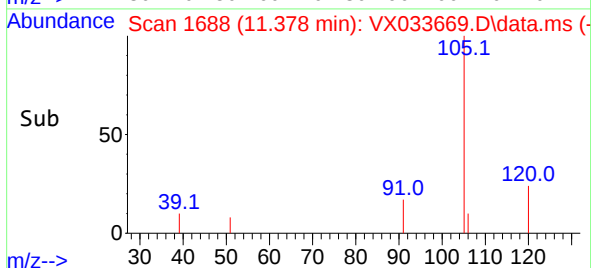
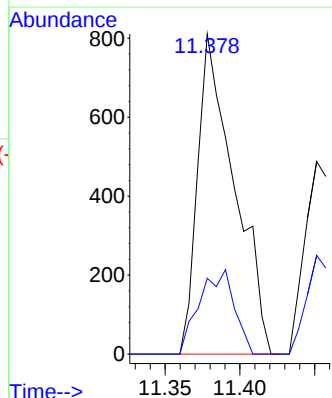
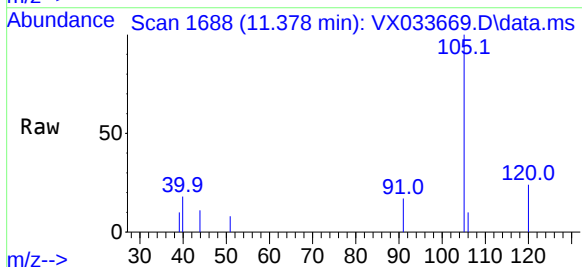
Instrument :
MSVOA_X
ClientSampleId :

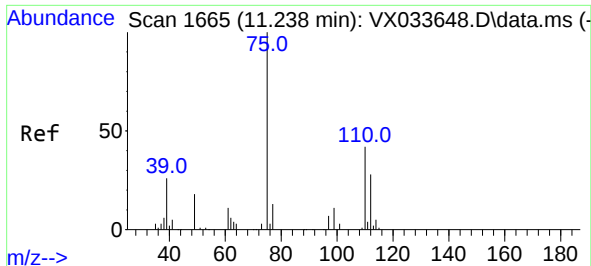
Tgt Ion:106 Resp: 546
Ion Ratio Lower Upper
106 100
91 177.1 104.6 313.8



#70
Isopropylbenzene
Concen: 0.214 ug/l
RT: 11.378 min Scan# 1688
Delta R.T. 0.415 min
Lab File: VX033669.D
Acq: 09 Jan 2023 17:35

Tgt Ion:105 Resp: 1383
Ion Ratio Lower Upper
105 100
120 25.0 18.7 34.7

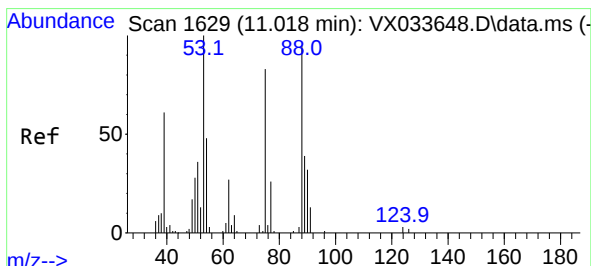
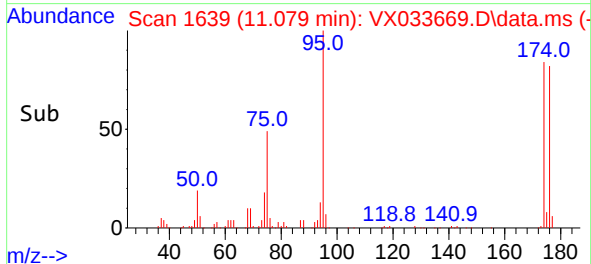
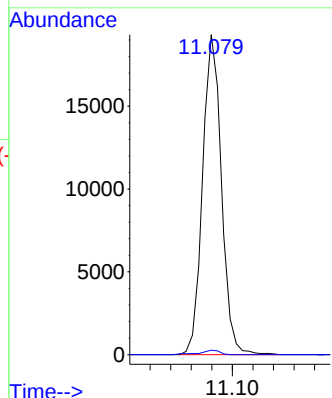
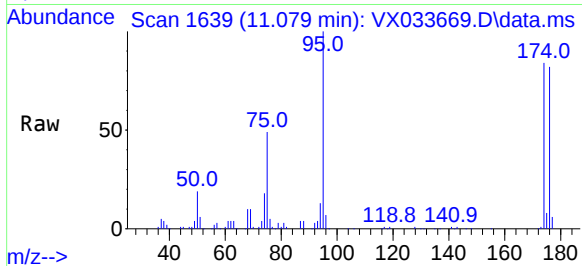




#72
1,2,3-Trichloropropane
Concen: 13.959 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.158 min
Lab File: VX033669.D
Acq: 09 Jan 2023 17:35

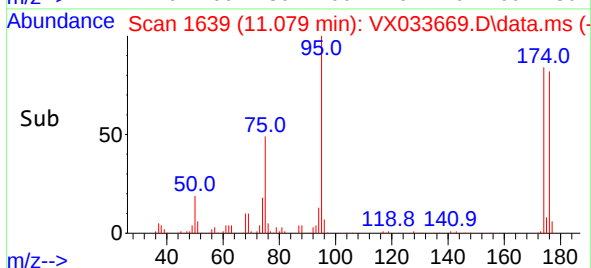
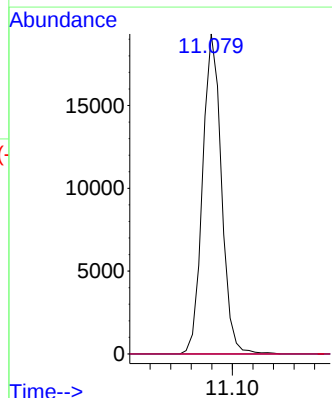
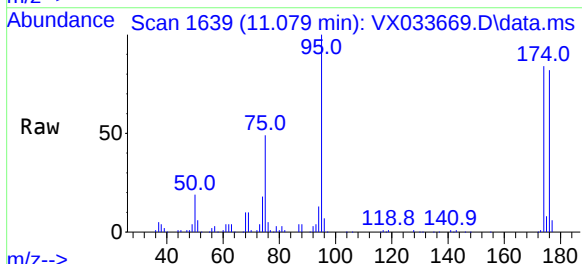
Instrument :
MSVOA_X
ClientSampleId :

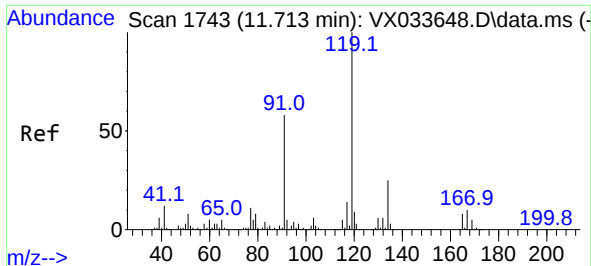
Tgt Ion: 75 Resp: 24658
Ion Ratio Lower Upper
75 100
77 1.2 0.0 74.6



#77
t-1,4-Dichloro-2-butene
Concen: 46.657 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX033669.D
Acq: 09 Jan 2023 17:35

Tgt Ion: 75 Resp: 24658
Ion Ratio Lower Upper
75 100
53 0.0 60.2 180.6#
89 0.0 23.2 69.6#





#79

tert-butylbenzene

Concen: 0.310 ug/l

RT: 12.012 min Scan# 11

Delta R.T. 0.299 min

Lab File: VX033669.D

Acq: 09 Jan 2023 17:35

Instrument :

MSVOA_X

ClientSampleId :

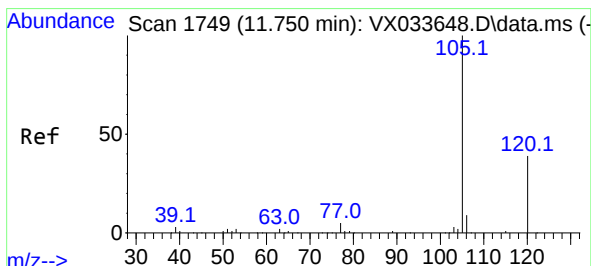
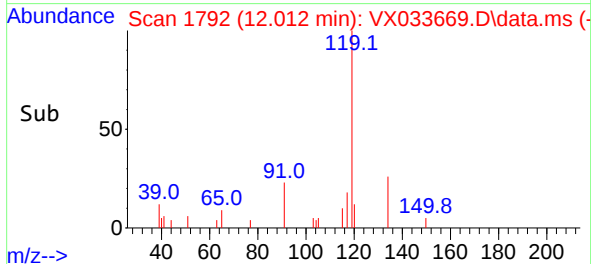
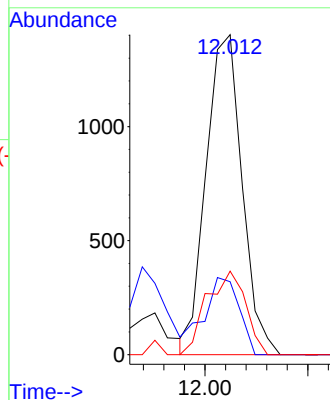
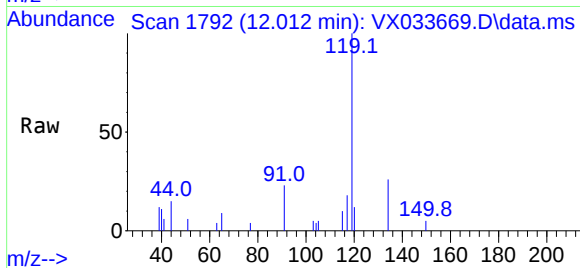
Tgt Ion:119 Resp: 1707

Ion Ratio Lower Upper

119 100

91 23.7 0.0 111.0

134 28.2 0.0 49.2



#80

1,2,4-Trimethylbenzene

Concen: 0.452 ug/l

RT: 11.756 min Scan# 1750

Delta R.T. 0.006 min

Lab File: VX033669.D

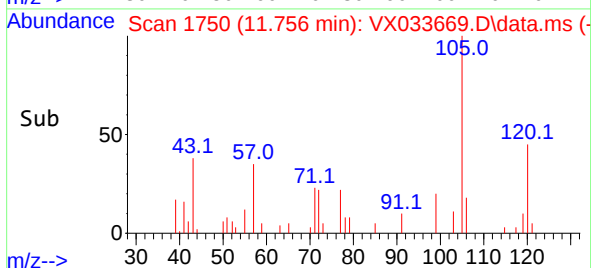
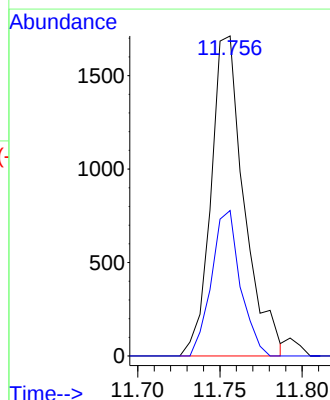
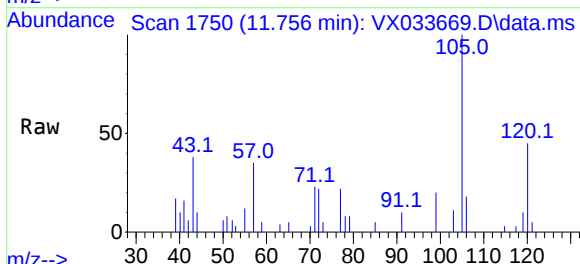
Acq: 09 Jan 2023 17:35

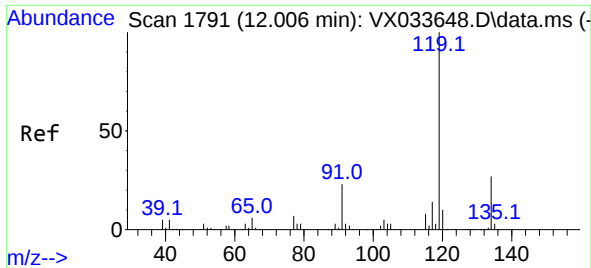
Tgt Ion:105 Resp: 2401

Ion Ratio Lower Upper

105 100

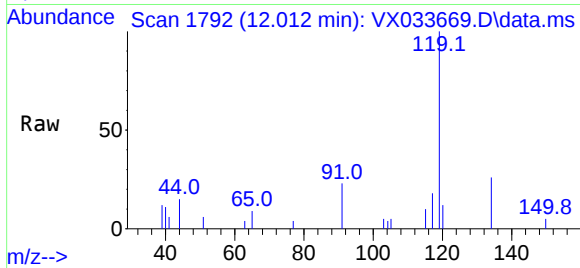
120 39.7 0.0 91.2



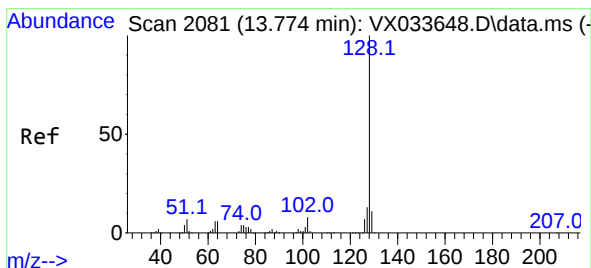
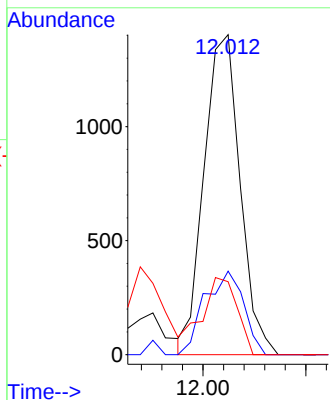
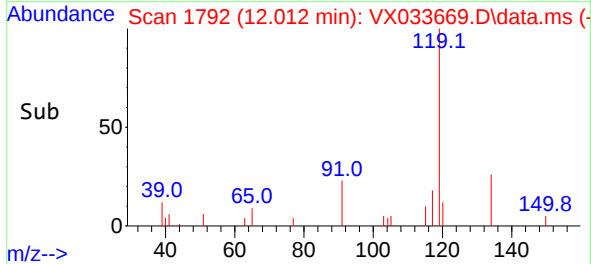


#82
p-Isopropyltoluene
Concen: 0.297 ug/l
RT: 12.012 min Scan# 1792
Delta R.T. 0.006 min
Lab File: VX033669.D
Acq: 09 Jan 2023 17:35

Instrument :
MSVOA_X
ClientSampleId :



Tgt Ion:119 Resp: 1707
Ion Ratio Lower Upper
119 100
134 28.2 0.0 54.4
91 23.7 0.0 45.2



#91
Naphthalene
Concen: 0.325 ug/l
RT: 13.780 min Scan# 2082
Delta R.T. 0.006 min
Lab File: VX033669.D
Acq: 09 Jan 2023 17:35

Tgt Ion:128 Resp: 1979
Ion Ratio Lower Upper
128 100
127 15.2 10.4 15.6
129 10.6 8.8 13.2

