

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX013123\
 Data File : VX033964.D
 Acq On : 31 Jan 2023 12:22
 Operator : JC/MD
 Sample : 01329-07RE
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 COMP-7-BORING-2-14-21

Quant Time: Feb 01 02:08:32 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011123W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 11 14:48:42 2023
 Response via : Initial Calibration

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

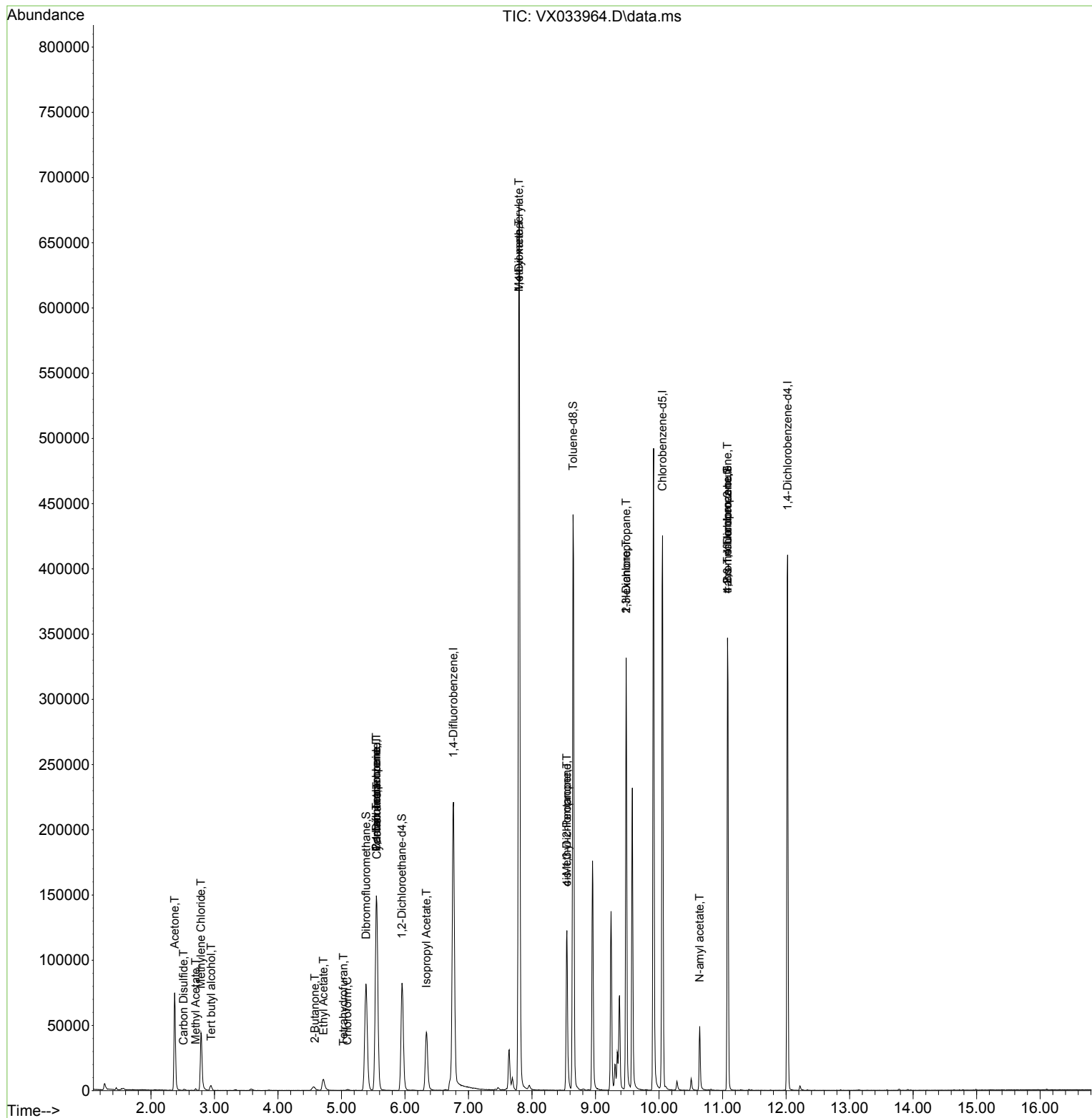
Internal Standards						
1) Pentafluorobenzene	5.549	168	163999	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	237245	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	207297	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	97032	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	77446	44.851	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	89.700%		
35) Dibromofluoromethane	5.385	113	71836	48.763	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	97.520%		
50) Toluene-d8	8.646	98	268564	50.035	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	100.060%		
62) 4-Bromofluorobenzene	11.079	95	91490	45.909	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	91.820%		
Target Compounds					Qvalue	
11) Tert butyl alcohol	2.946	59	2431	8.104	ug/l #	86
16) Acetone	2.373	43	78062	117.846	ug/l	90
17) Carbon Disulfide	2.513	76	262	1.897	ug/l #	76
18) Methyl Acetate	2.702	43	1487	0.617	ug/l	92
20) Methylene Chloride	2.788	84	22992	13.484	ug/l	92
25) 2-Butanone	4.580	43	2566	2.274	ug/l #	88
29) Tetrahydrofuran	5.031	42	149	0.210	ug/l #	34
30) Chloroform	5.092	83	1021	0.360	ug/l #	80
31) Cyclohexane	5.555	56	2269	0.893	ug/l #	1
36) 1,1-Dichloropropene	5.549	75	9692	4.508	ug/l #	48
37) Ethyl Acetate	4.714	43	15586	5.027	ug/l	96
38) Carbon Tetrachloride	5.549	117	13648	6.129	ug/l #	16
43) Isopropyl Acetate	6.336	43	63504	18.710	ug/l	98
48) Methyl methacrylate	7.793	41	58051	33.952	ug/l #	44
49) 1,4-Dioxane	7.793	88	63	1.666	ug/l #	1
51) 4-Methyl-2-Pentanone	8.549	43	44035	21.125	ug/l #	51
54) cis-1,3-Dichloropropene	8.549	75	21406	9.040	ug/l #	60
57) 1,3-Dichloropropane	9.482	76	2952	1.136	ug/l #	43
59) 2-Hexanone	9.482	43	39081	26.936	ug/l #	51
73) Isopropylbenzene	10.975	105	18	Below Cal	#	48
74) N-amyl acetate	10.640	43	13444	5.276	ug/l #	51
76) 1,2,3-Trichloropropane	11.079	75	41307	23.170	ug/l #	34
77) Bromobenzene	11.207	156	95	Below Cal	#	2
79) 2-Chlorotoluene	11.365	91	70	Below Cal	#	39
81) trans-1,4-Dichloro-2-b...	11.079	75	41307	72.008	ug/l #	8
82) 4-Chlorotoluene	11.469	91	185	Below Cal	#	43

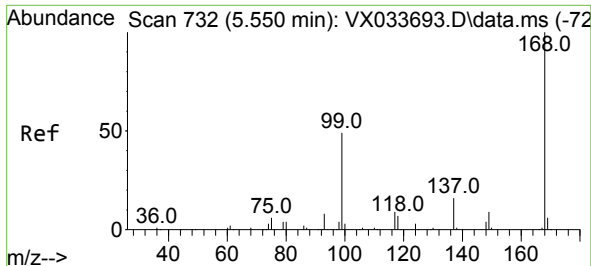
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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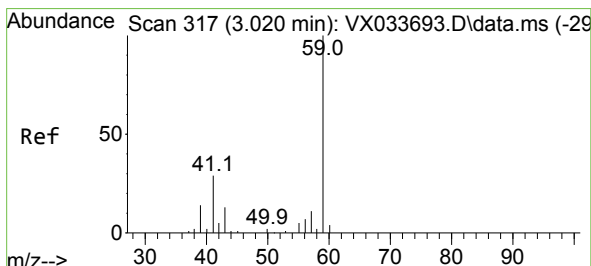
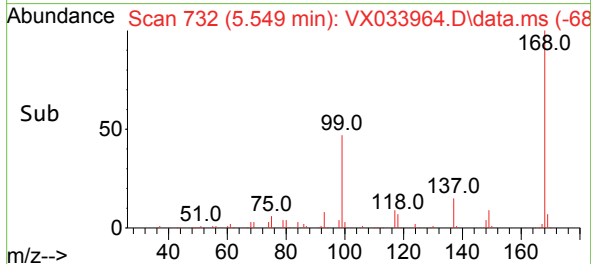
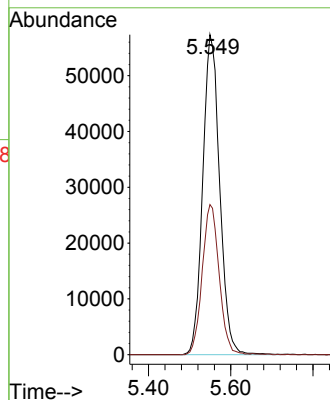
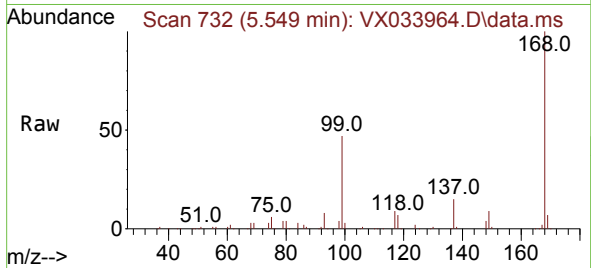




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.549 min Scan# 71
Delta R.T. -0.001 min
Lab File: VX033964.D
Acq: 31 Jan 2023 12:22

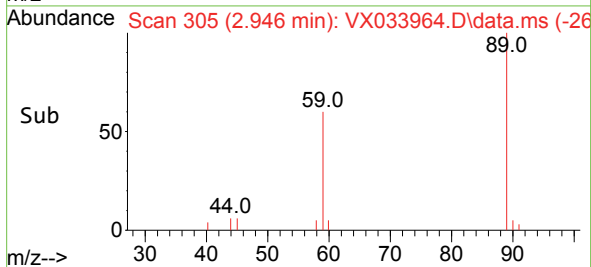
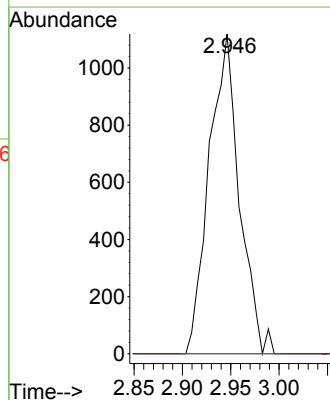
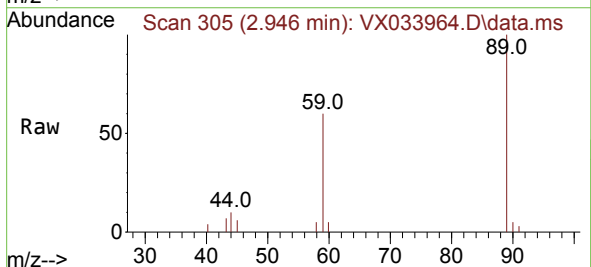
Instrument :
MSVOA_X
ClientSampleId :
COMP-7-BORING-2-14-21

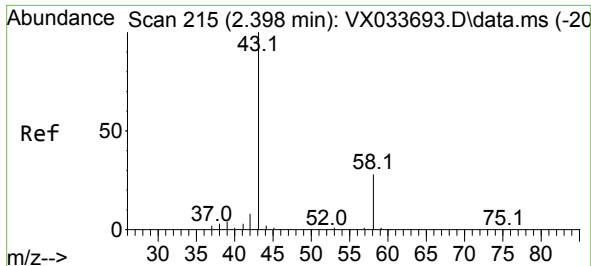
Tgt Ion:168 Resp: 163999
Ion Ratio Lower Upper
168 100
99 46.9 39.6 59.4



#11
Tert butyl alcohol
Concen: 8.104 ug/l
RT: 2.946 min Scan# 305
Delta R.T. -0.074 min
Lab File: VX033964.D
Acq: 31 Jan 2023 12:22

Tgt Ion: 59 Resp: 2431
Ion Ratio Lower Upper
59 100
57 0.0 3.7 5.5#

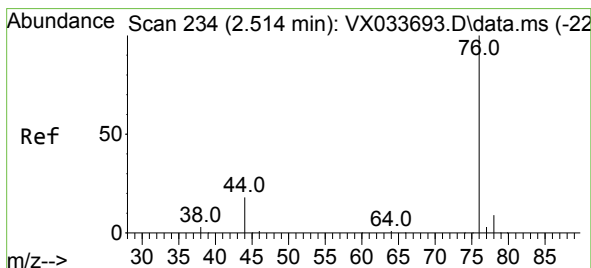
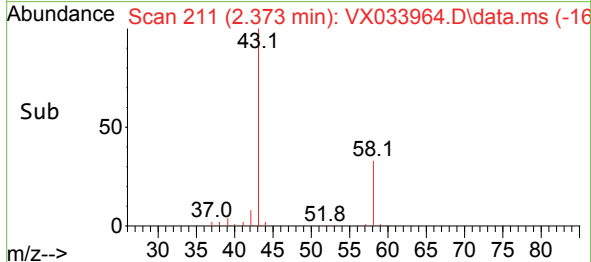
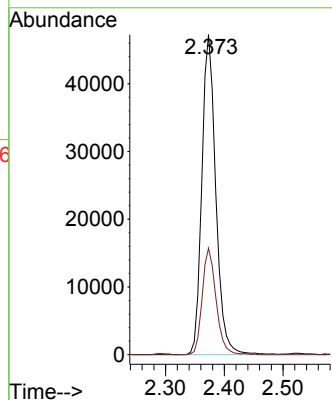
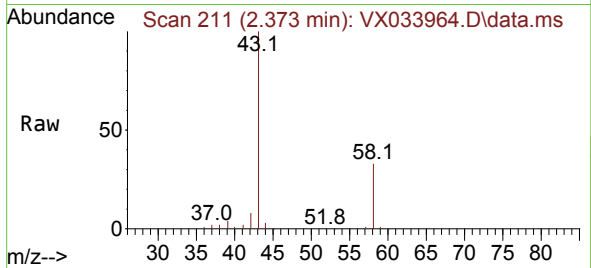




#16
Acetone
Concen: 117.846 ug/l
RT: 2.373 min Scan# 215
Delta R.T. -0.025 min
Lab File: VX033964.D
Acq: 31 Jan 2023 12:22

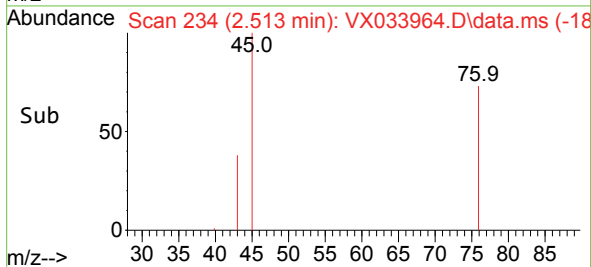
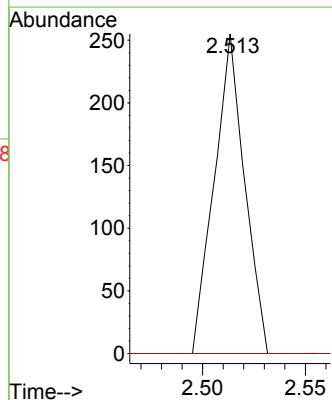
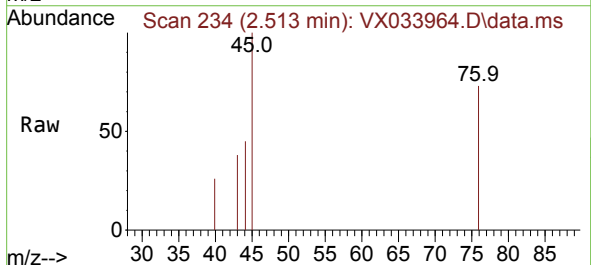
Instrument :
MSVOA_X
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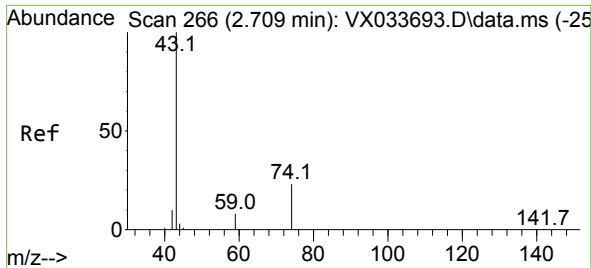
Tgt Ion: 43 Resp: 78062
Ion Ratio Lower Upper
43 100
58 33.3 22.6 33.8



#17
Carbon Disulfide
Concen: 1.897 ug/l
RT: 2.513 min Scan# 234
Delta R.T. -0.001 min
Lab File: VX033964.D
Acq: 31 Jan 2023 12:22

Tgt Ion: 76 Resp: 262
Ion Ratio Lower Upper
76 100
78 0.0 7.0 10.6#

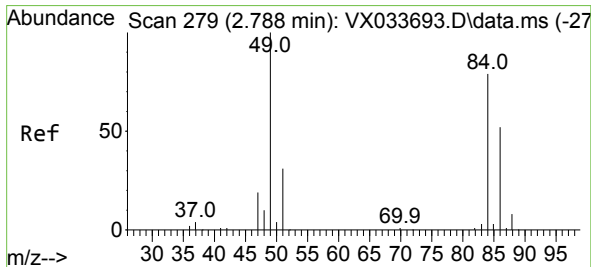
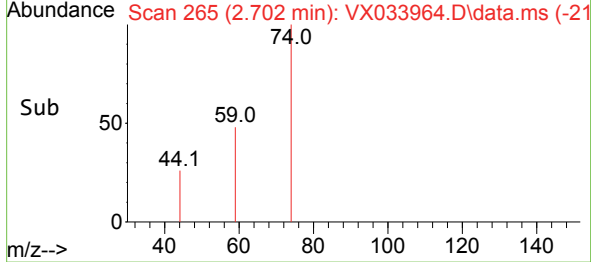
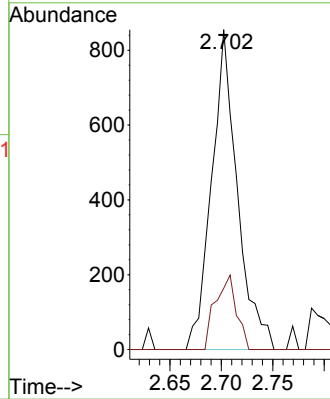
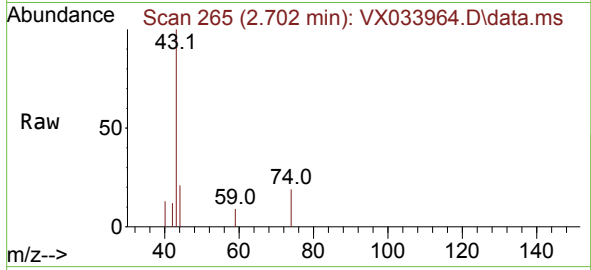




#18
Methyl Acetate
Concen: 0.617 ug/l
RT: 2.702 min Scan# 265
Delta R.T. -0.007 min
Lab File: VX033964.D
Acq: 31 Jan 2023 12:22

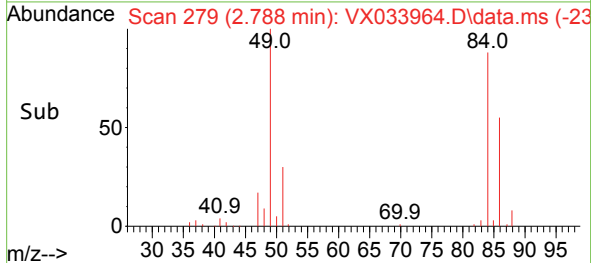
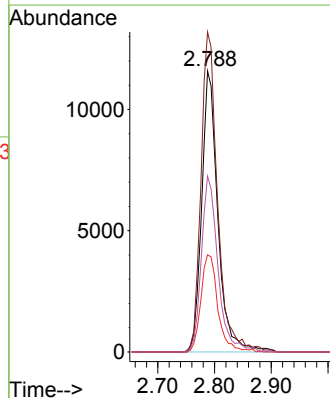
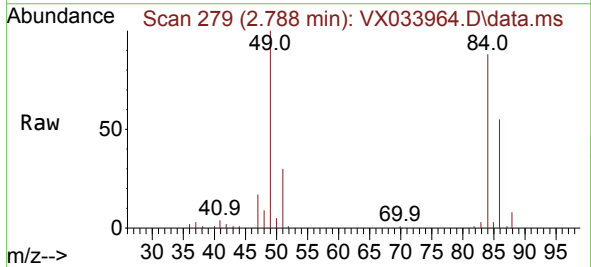
Instrument :
MSVOA_X
ClientSampleId :
COMP-7-BORING-2-14-21

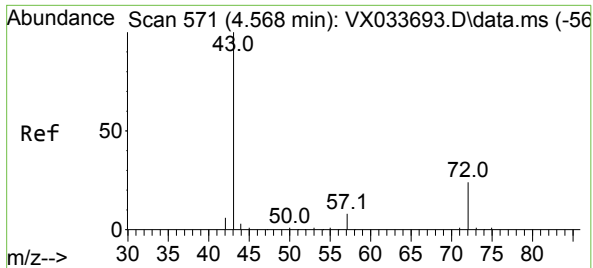
Tgt Ion: 43 Resp: 1487
Ion Ratio Lower Upper
43 100
74 19.0 18.2 27.4



#20
Methylene Chloride
Concen: 13.484 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX033964.D
Acq: 31 Jan 2023 12:22

Tgt Ion: 84 Resp: 22992
Ion Ratio Lower Upper
84 100
49 113.9 101.1 151.7
51 34.6 31.0 46.6
86 62.6 52.6 79.0

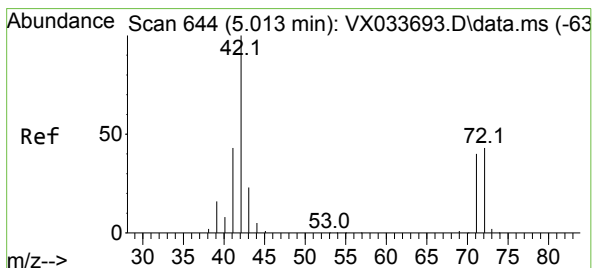
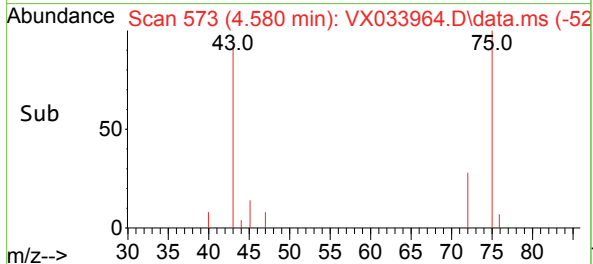
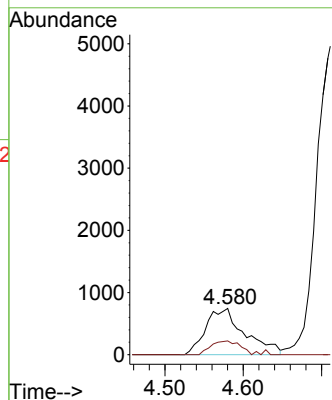
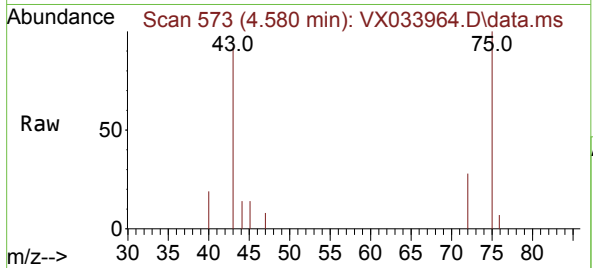




#25
2-Butanone
Concen: 2.274 ug/l
RT: 4.580 min Scan# 51
Delta R.T. 0.012 min
Lab File: VX033964.D
Acq: 31 Jan 2023 12:22

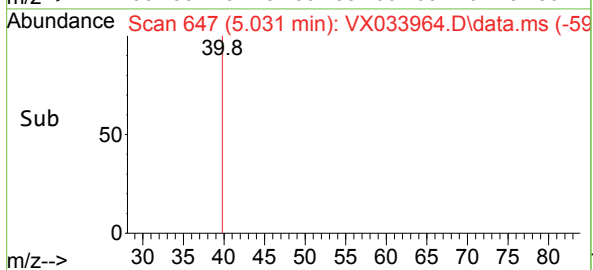
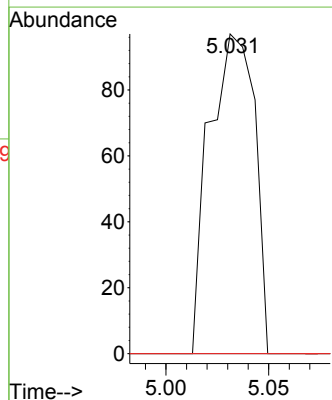
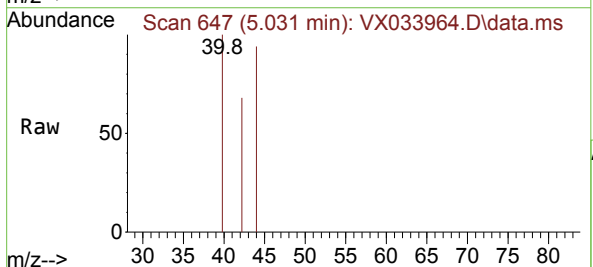
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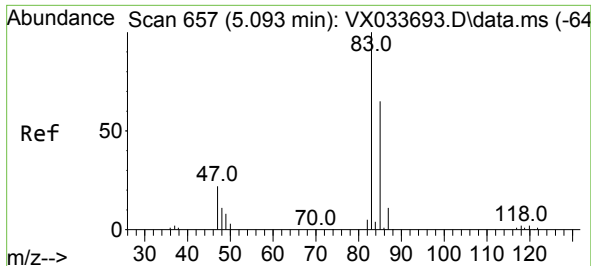
Tgt Ion: 43 Resp: 2566
Ion Ratio Lower Upper
43 100
72 30.0 19.4 29.2#



#29
Tetrahydrofuran
Concen: 0.210 ug/l
RT: 5.031 min Scan# 647
Delta R.T. 0.018 min
Lab File: VX033964.D
Acq: 31 Jan 2023 12:22

Tgt Ion: 42 Resp: 149
Ion Ratio Lower Upper
42 100
72 0.0 34.8 52.2#
71 0.0 32.2 48.2#





#30

Chloroform

Concen: 0.360 ug/l

RT: 5.092 min Scan# 61

Delta R.T. -0.001 min

Lab File: VX033964.D

Acq: 31 Jan 2023 12:22

Instrument :

MSVOA_X

ClientSampleId :

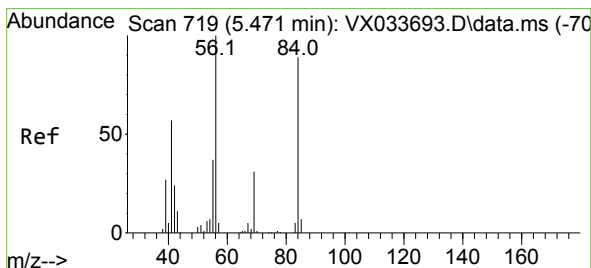
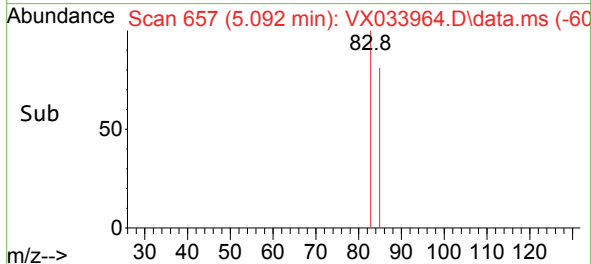
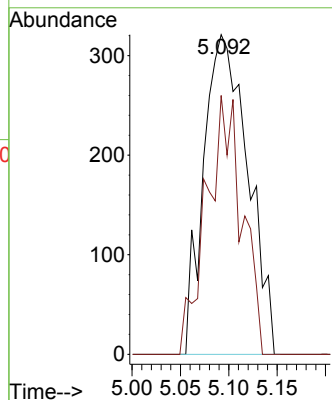
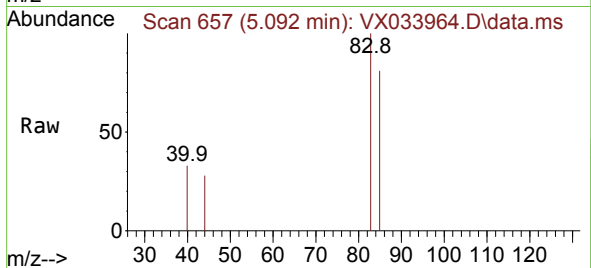
COMP-7-BORING-2-14-21

Tgt Ion: 83 Resp: 1021

Ion Ratio Lower Upper

83 100

85 81.0 52.1 78.1#



#31

Cyclohexane

Concen: 0.893 ug/l

RT: 5.555 min Scan# 733

Delta R.T. 0.085 min

Lab File: VX033964.D

Acq: 31 Jan 2023 12:22

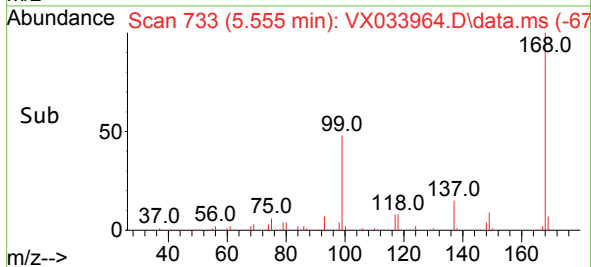
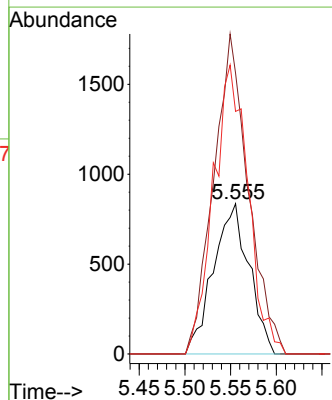
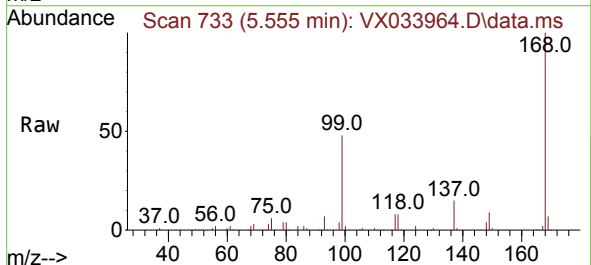
Tgt Ion: 56 Resp: 2269

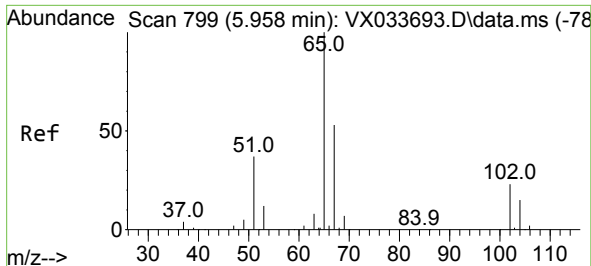
Ion Ratio Lower Upper

56 100

69 186.8 24.6 37.0#

84 161.4 71.0 106.6#

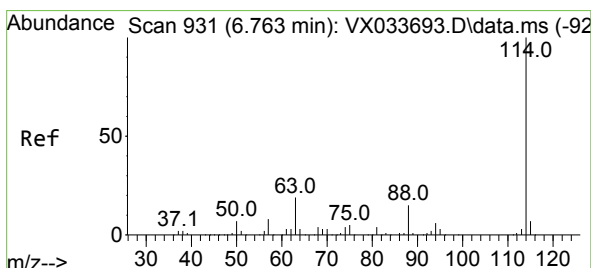
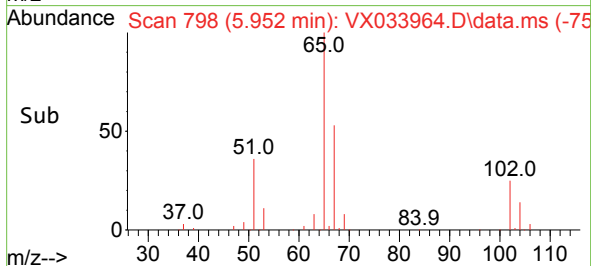
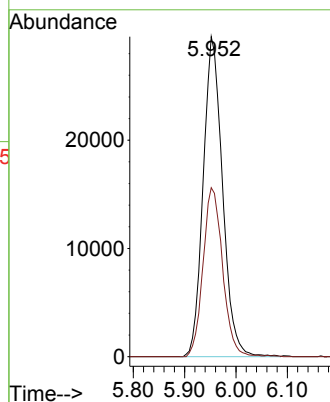
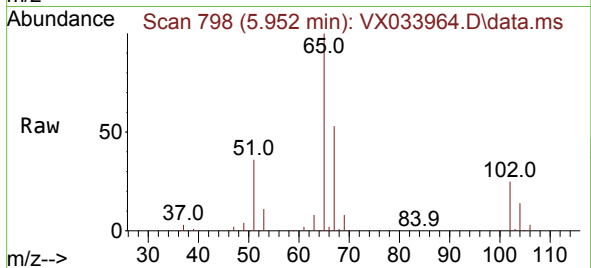




#33
1,2-Dichloroethane-d4
Concen: 44.851 ug/l
RT: 5.952 min Scan# 799
Delta R.T. -0.007 min
Lab File: VX033964.D
Acq: 31 Jan 2023 12:22

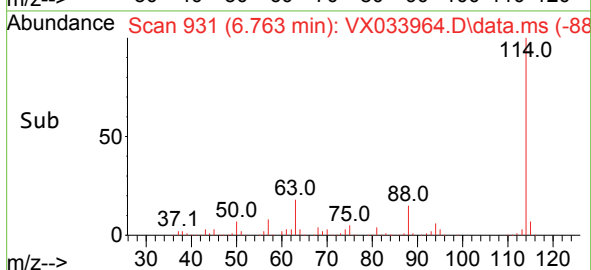
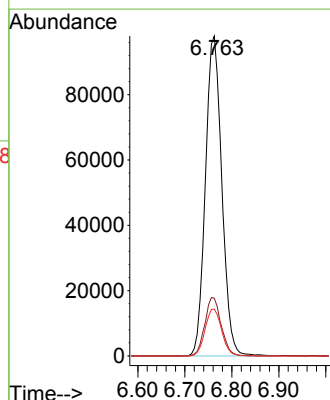
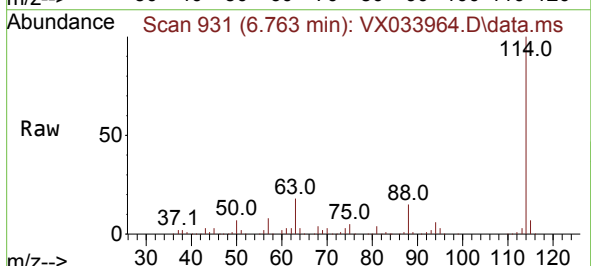
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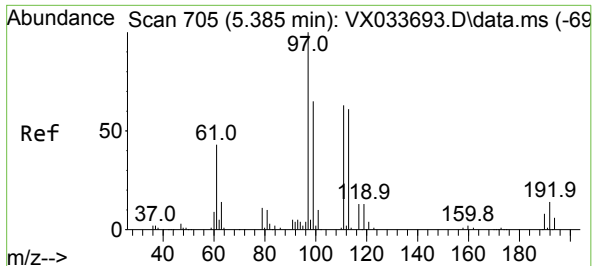
Tgt Ion: 65 Resp: 77446
Ion Ratio Lower Upper
65 100
67 53.3 0.0 104.8



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 931
Delta R.T. -0.000 min
Lab File: VX033964.D
Acq: 31 Jan 2023 12:22

Tgt Ion: 114 Resp: 237245
Ion Ratio Lower Upper
114 100
63 18.0 0.0 37.4
88 14.7 0.0 30.6

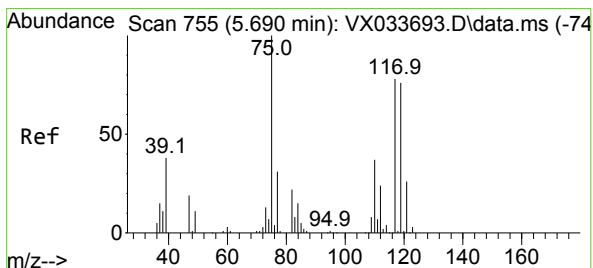
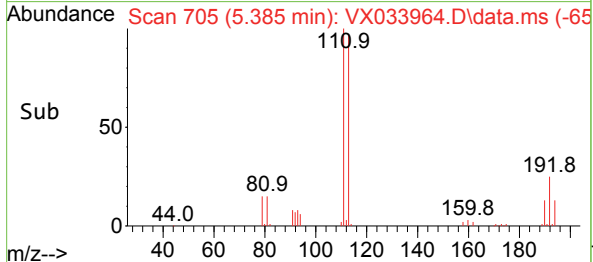
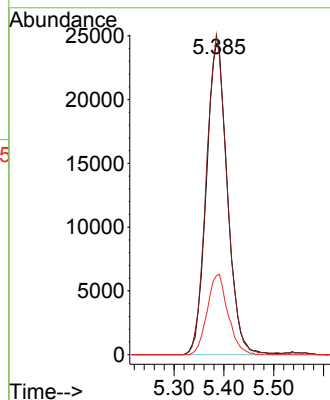
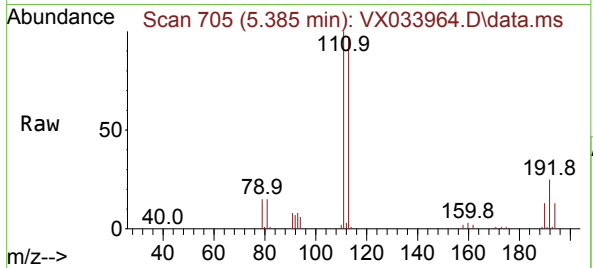




#35
Dibromofluoromethane
Concen: 48.763 ug/l
RT: 5.385 min Scan# 705
Delta R.T. -0.000 min
Lab File: VX033964.D
Acq: 31 Jan 2023 12:22

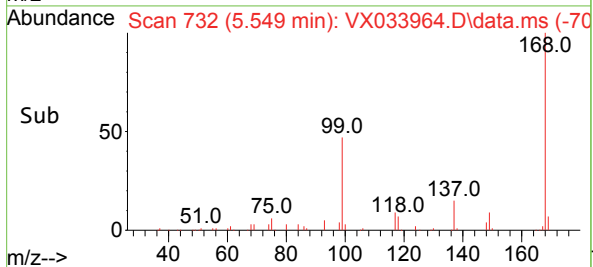
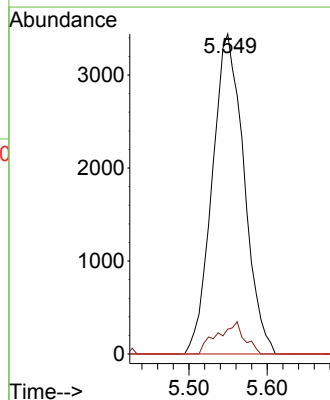
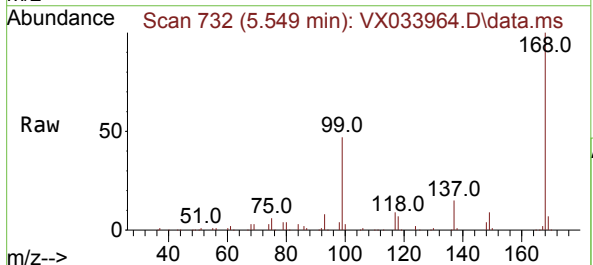
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ClientSampleId :
COMP-7-BORING-2-14-21

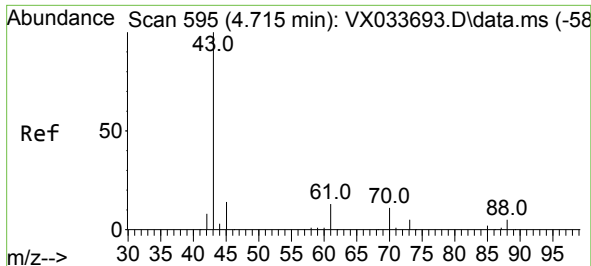
Tgt Ion:113 Resp: 71836
Ion Ratio Lower Upper
113 100
111 100.8 83.0 124.6
192 25.4 19.0 28.4



#36
1,1-Dichloropropene
Concen: 4.508 ug/l
RT: 5.549 min Scan# 732
Delta R.T. -0.141 min
Lab File: VX033964.D
Acq: 31 Jan 2023 12:22

Tgt Ion: 75 Resp: 9692
Ion Ratio Lower Upper
75 100
110 8.6 18.8 56.4#
77 0.0 25.1 37.7#





#37

Ethyl Acetate

Concen: 5.027 ug/l

RT: 4.714 min Scan# 51

Delta R.T. -0.001 min

Lab File: VX033964.D

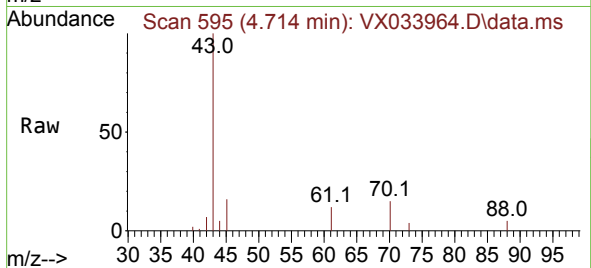
Acq: 31 Jan 2023 12:22

Instrument :

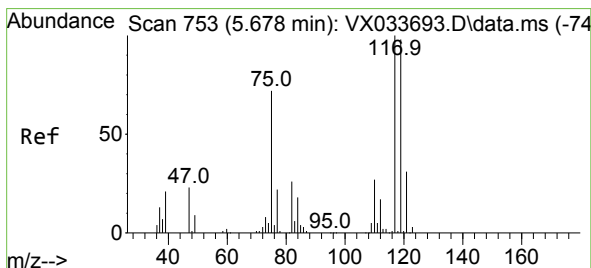
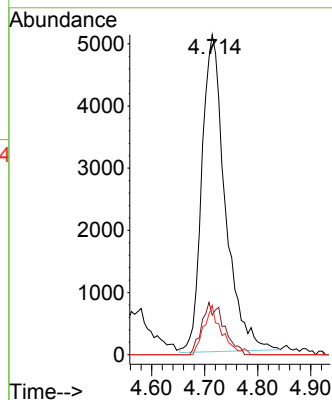
MSVOA_X

ClientSampleId :

COMP-7-BORING-2-14-21



Tgt Ion:	43	Resp:	15586
Ion	Ratio	Lower	Upper
43	100		
61	15.5	11.1	16.7
70	12.0	8.5	12.7



#38

Carbon Tetrachloride

Concen: 6.129 ug/l

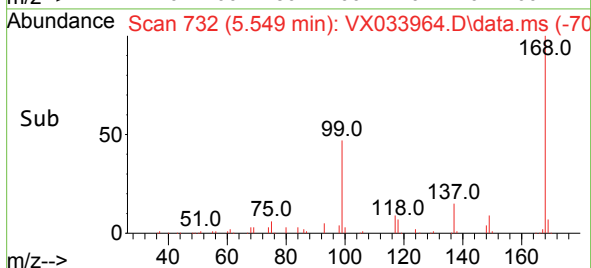
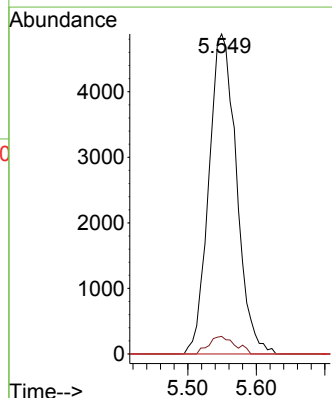
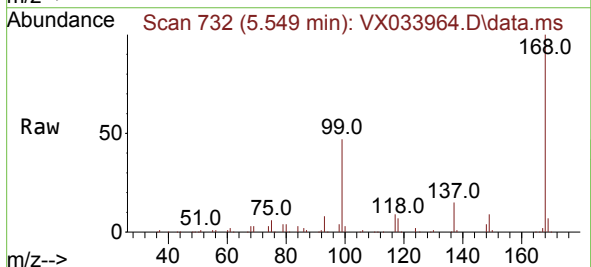
RT: 5.549 min Scan# 732

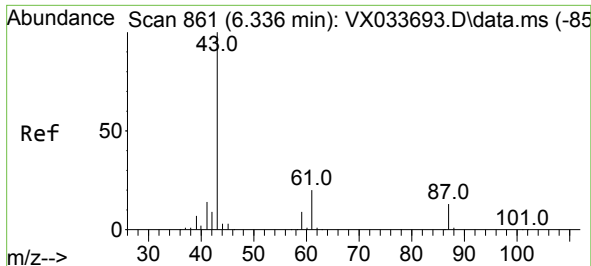
Delta R.T. -0.129 min

Lab File: VX033964.D

Acq: 31 Jan 2023 12:22

Tgt Ion:	117	Resp:	13648
Ion	Ratio	Lower	Upper
117	100		
119	5.5	78.0	117.0#
121	0.0	24.4	36.6#

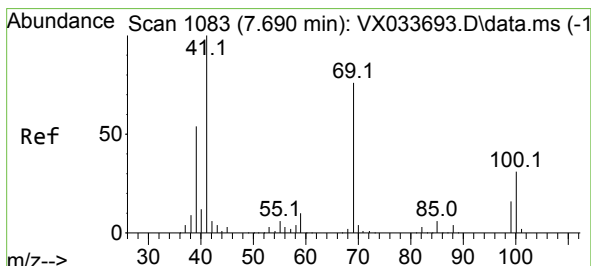
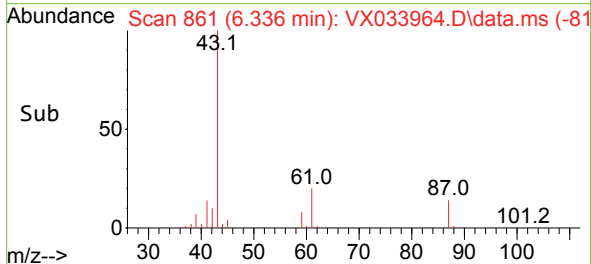
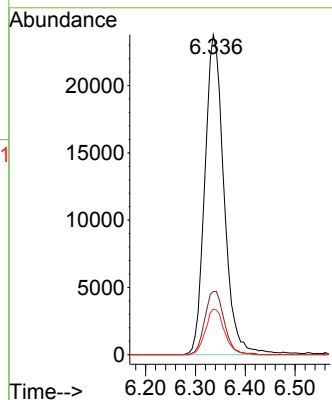
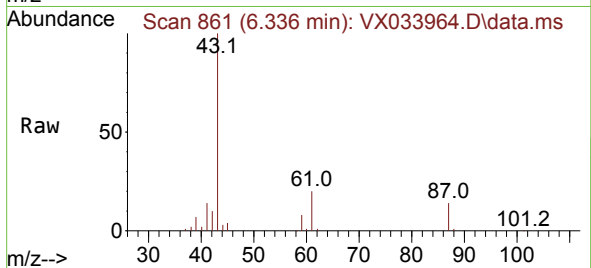




#43
Isopropyl Acetate
Concen: 18.710 ug/l
RT: 6.336 min Scan# 861
Delta R.T. -0.000 min
Lab File: VX033964.D
Acq: 31 Jan 2023 12:22

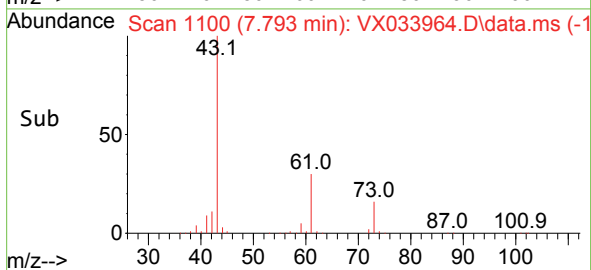
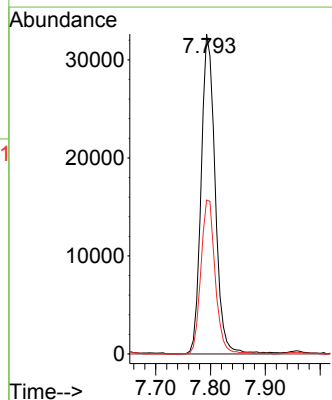
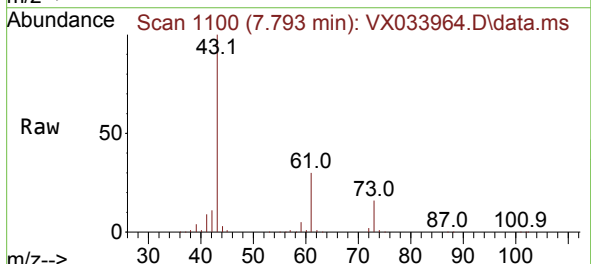
Instrument :
MSVOA_X
ClientSampleId :
COMP-7-BORING-2-14-21

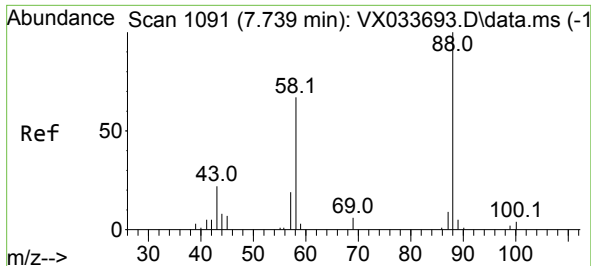
Tgt Ion: 43 Resp: 63504
Ion Ratio Lower Upper
43 100
61 20.1 15.7 23.5
87 14.1 10.6 15.8



#48
Methyl methacrylate
Concen: 33.952 ug/l
RT: 7.793 min Scan# 1100
Delta R.T. 0.103 min
Lab File: VX033964.D
Acq: 31 Jan 2023 12:22

Tgt Ion: 41 Resp: 58051
Ion Ratio Lower Upper
41 100
69 0.0 63.1 94.7#
39 49.2 43.2 64.8

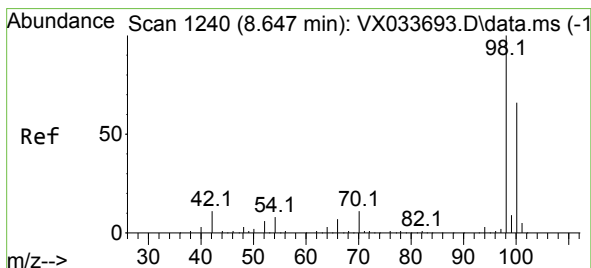
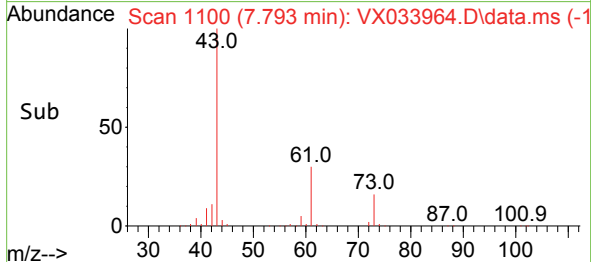
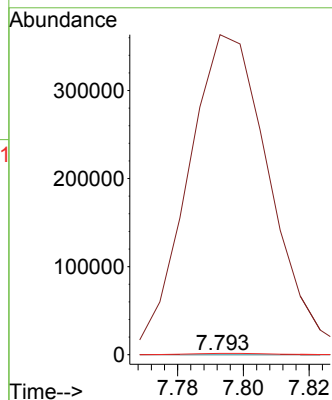
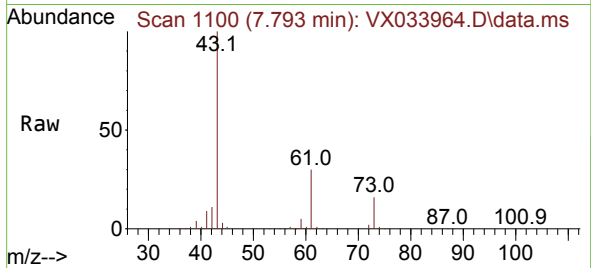




#49
1,4-Dioxane
Concen: 1.666 ug/l
RT: 7.793 min Scan# 1100
Delta R.T. 0.054 min
Lab File: VX033964.D
Acq: 31 Jan 2023 12:22

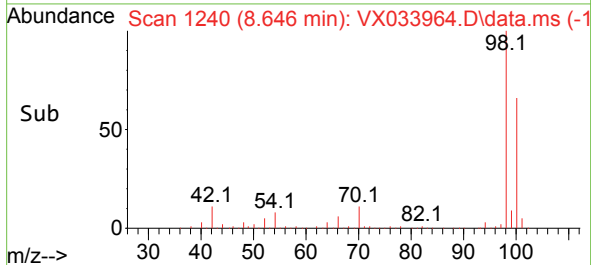
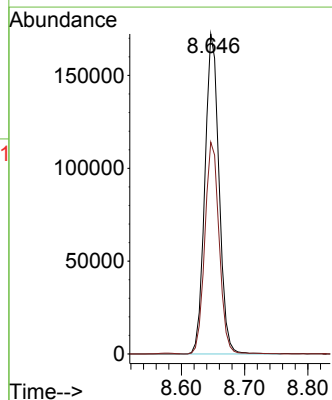
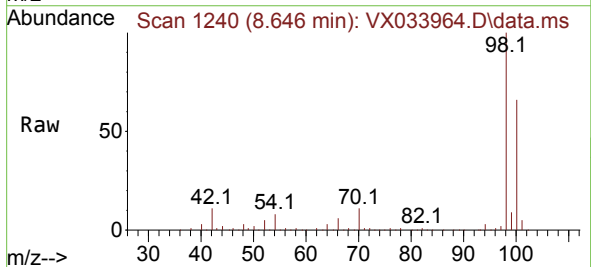
Instrument :
MSVOA_X
ClientSampleId :
COMP-7-BORING-2-14-21

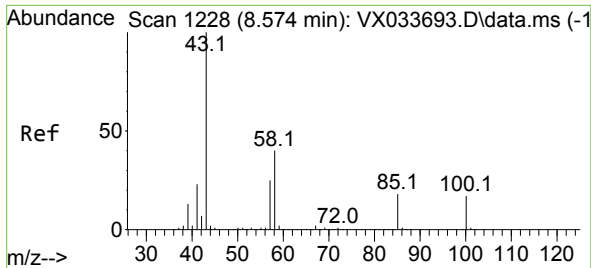
Tgt Ion: 88 Resp: 63
Ion Ratio Lower Upper
88 100
43 1023668.3 0.0 0.0#
58 4460.3 56.5 84.7#



#50
Toluene-d8
Concen: 50.035 ug/l
RT: 8.646 min Scan# 1240
Delta R.T. -0.001 min
Lab File: VX033964.D
Acq: 31 Jan 2023 12:22

Tgt Ion: 98 Resp: 268564
Ion Ratio Lower Upper
98 100
100 67.1 53.6 80.4

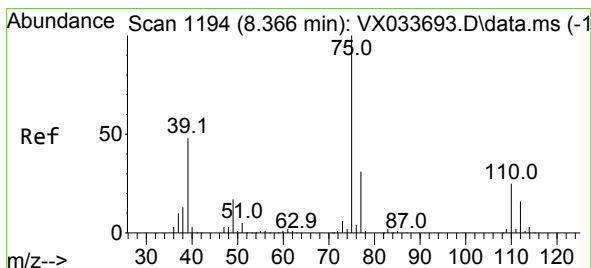
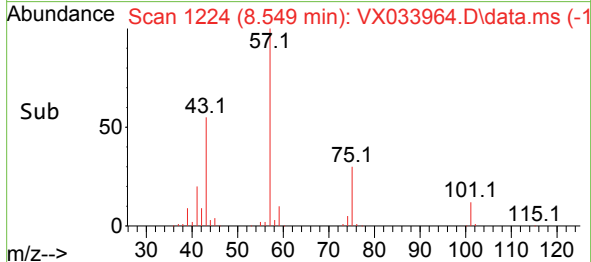
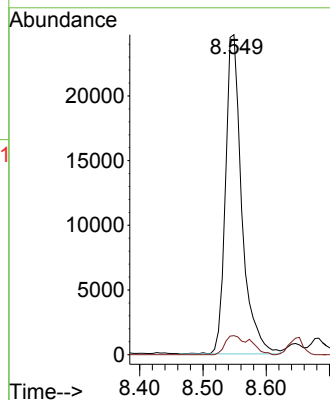
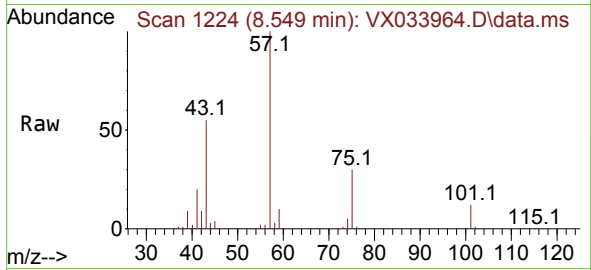




#51
4-Methyl-2-Pentanone
Concen: 21.125 ug/l
RT: 8.549 min Scan# 11
Delta R.T. -0.025 min
Lab File: VX033964.D
Acq: 31 Jan 2023 12:22

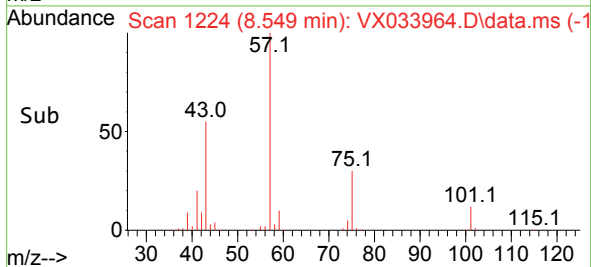
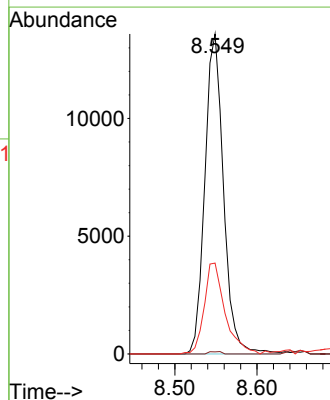
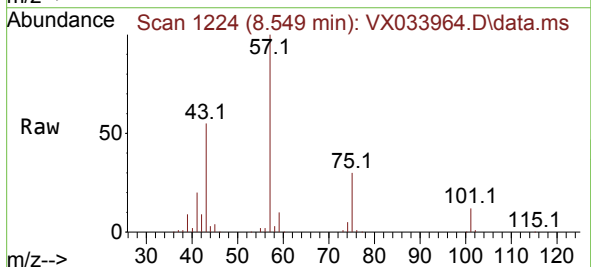
Instrument :
MSVOA_X
ClientSampleId :
COMP-7-BORING-2-14-21

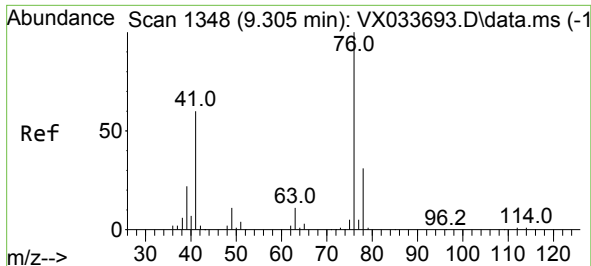
Tgt Ion: 43 Resp: 44035
Ion Ratio Lower Upper
43 100
58 9.3 31.2 46.8#



#54
cis-1,3-Dichloropropene
Concen: 9.040 ug/l
RT: 8.549 min Scan# 1224
Delta R.T. 0.182 min
Lab File: VX033964.D
Acq: 31 Jan 2023 12:22

Tgt Ion: 75 Resp: 21406
Ion Ratio Lower Upper
75 100
77 0.7 25.0 37.6#
39 28.4 38.6 58.0#





#57

1,3-Dichloropropane

Concen: 1.136 ug/l

RT: 9.482 min Scan# 1377

Delta R.T. 0.176 min

Lab File: VX033964.D

Acq: 31 Jan 2023 12:22

Instrument :

MSVOA_X

ClientSampleId :

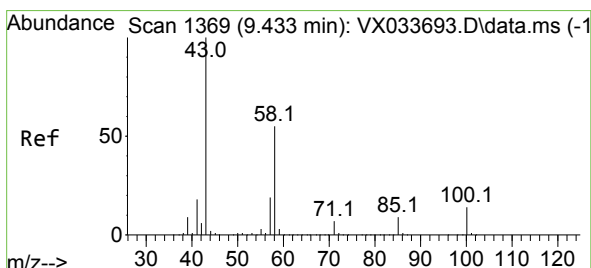
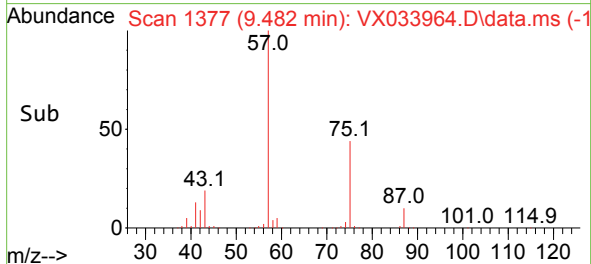
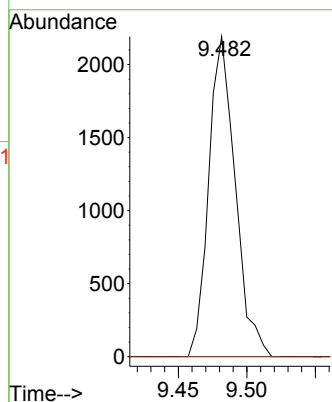
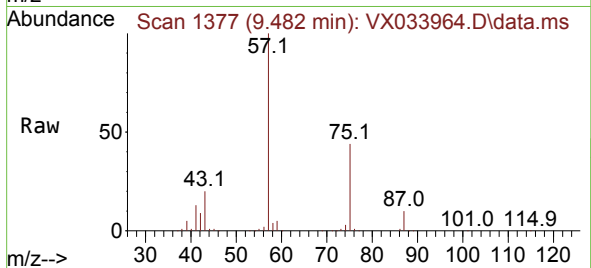
COMP-7-BORING-2-14-21

Tgt Ion: 76 Resp: 2952

Ion Ratio Lower Upper

76 100

78 0.0 25.6 38.4#



#59

2-Hexanone

Concen: 26.936 ug/l

RT: 9.482 min Scan# 1377

Delta R.T. 0.048 min

Lab File: VX033964.D

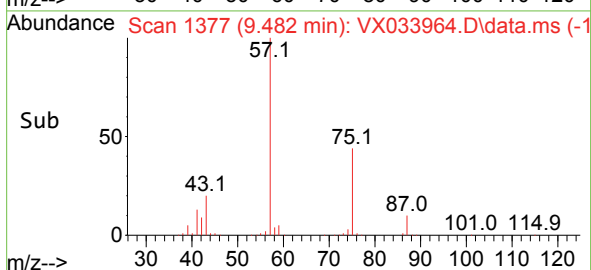
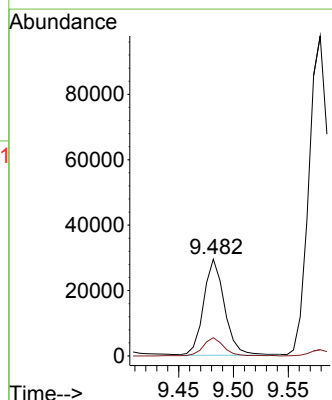
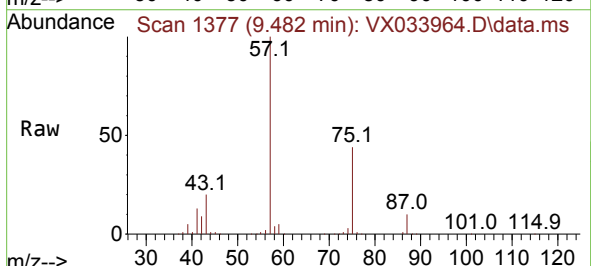
Acq: 31 Jan 2023 12:22

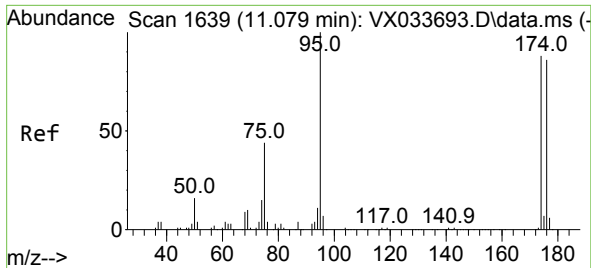
Tgt Ion: 43 Resp: 39081

Ion Ratio Lower Upper

43 100

58 19.2 27.4 82.0#

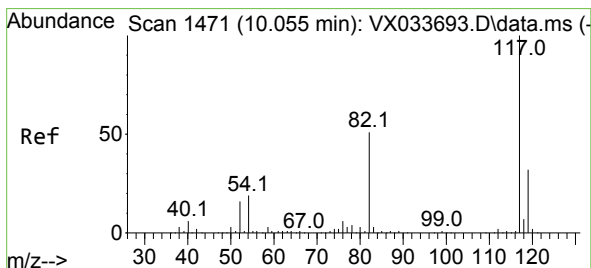
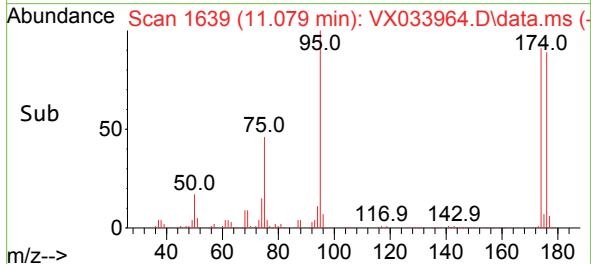
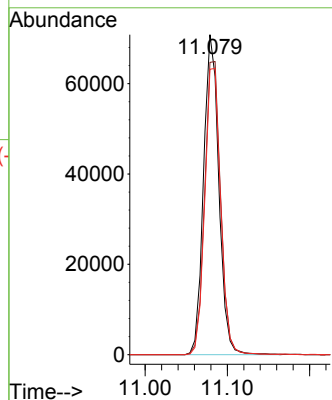
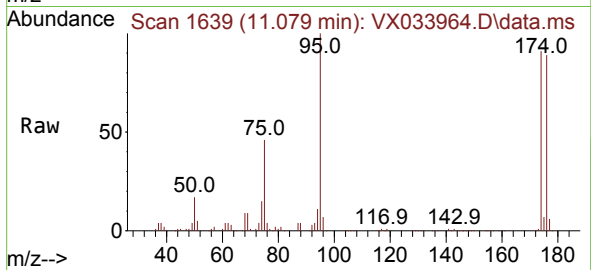




#62
4-Bromofluorobenzene
Concen: 45.909 ug/l
RT: 11.079 min Scan# 1
Delta R.T. -0.001 min
Lab File: VX033964.D
Acq: 31 Jan 2023 12:22

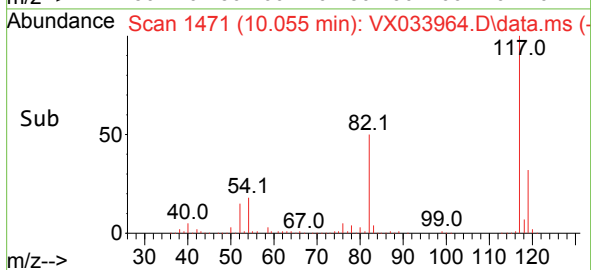
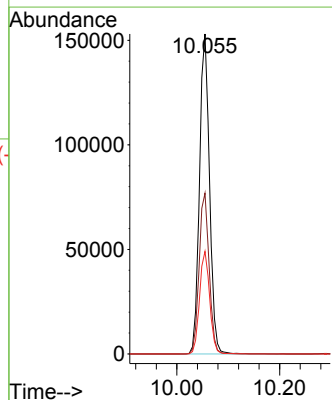
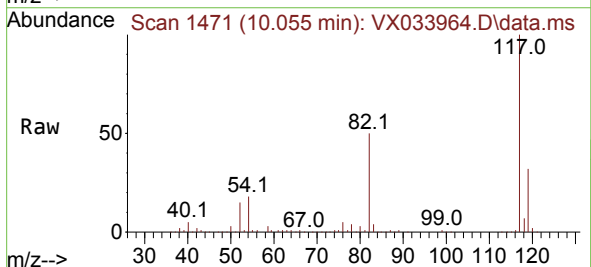
Instrument :
MSVOA_X
ClientSampleId :
COMP-7-BORING-2-14-21

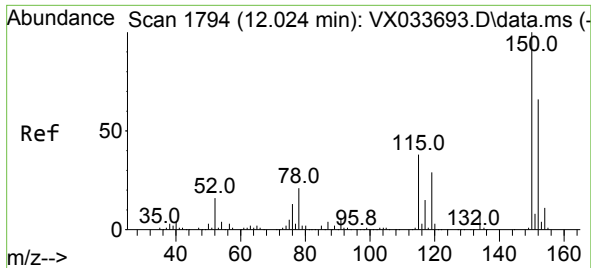
Tgt Ion: 95 Resp: 91490
Ion Ratio Lower Upper
95 100
174 95.9 0.0 184.4
176 92.9 0.0 178.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX033964.D
Acq: 31 Jan 2023 12:22

Tgt Ion: 117 Resp: 207297
Ion Ratio Lower Upper
117 100
82 50.2 40.6 60.8
119 32.1 25.6 38.4

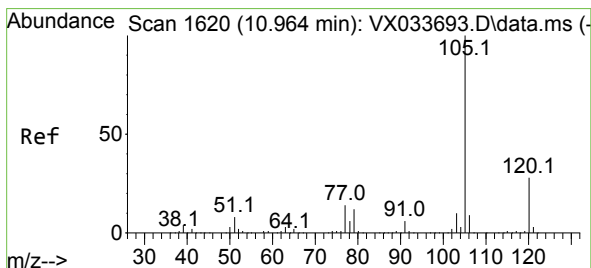
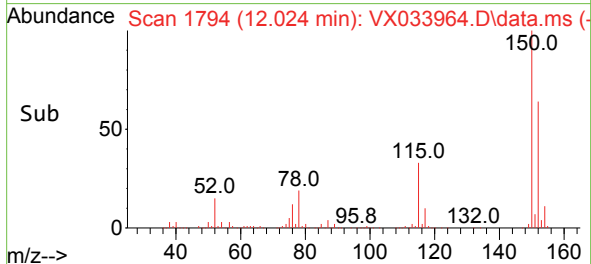
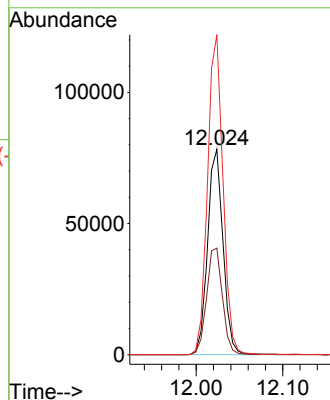
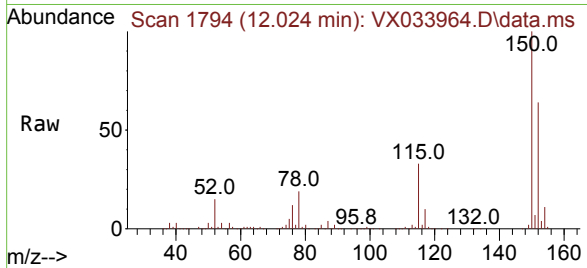




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 11
Delta R.T. -0.001 min
Lab File: VX033964.D
Acq: 31 Jan 2023 12:22

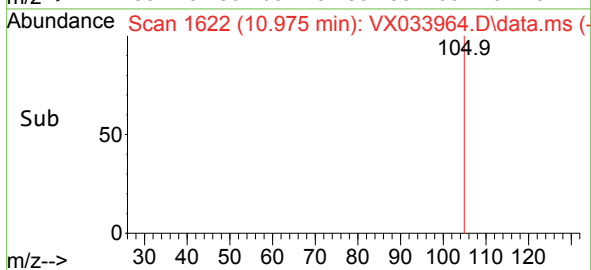
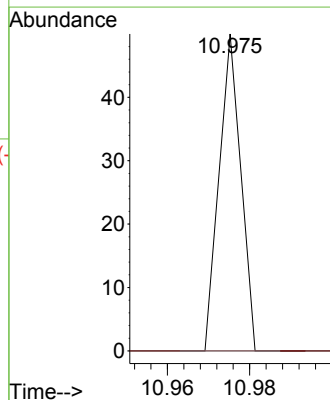
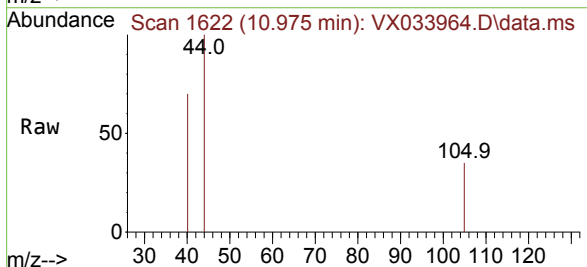
Instrument :
MSVOA_X
ClientSampleId :
COMP-7-BORING-2-14-21

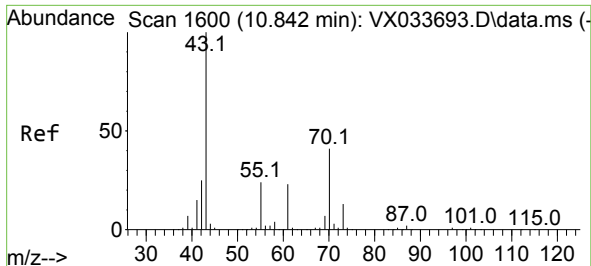
Tgt Ion:152 Resp: 97032
Ion Ratio Lower Upper
152 100
115 53.2 38.7 116.1
150 155.5 0.0 348.2



#73
Isopropylbenzene
Concen: Below Cal
RT: 10.975 min Scan# 1622
Delta R.T. 0.011 min
Lab File: VX033964.D
Acq: 31 Jan 2023 12:22

Tgt Ion:105 Resp: 18
Ion Ratio Lower Upper
105 100
120 0.0 13.6 40.8#

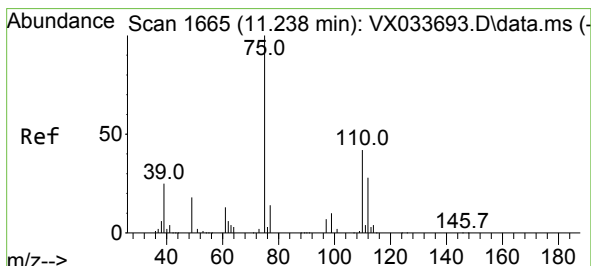
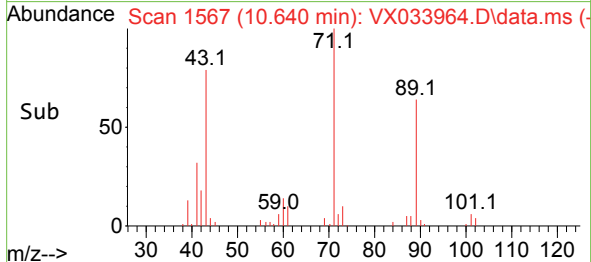
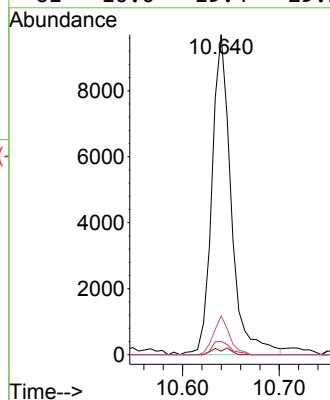
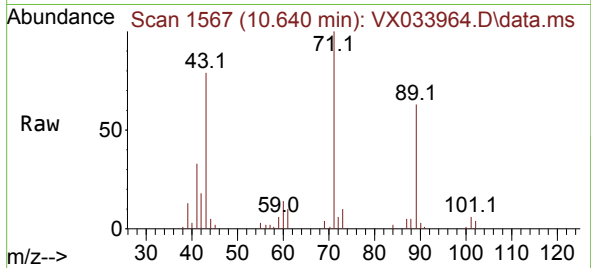




#74
N-amy1 acetate
Concen: 5.276 ug/l
RT: 10.640 min Scan# 1639
Delta R.T. -0.202 min
Lab File: VX033964.D
Acq: 31 Jan 2023 12:22

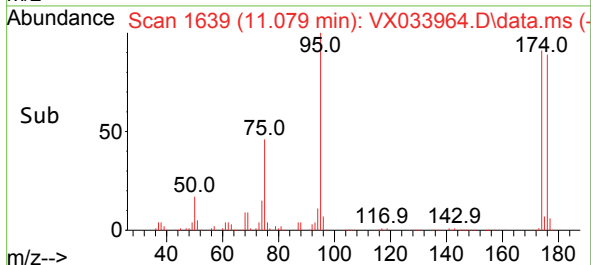
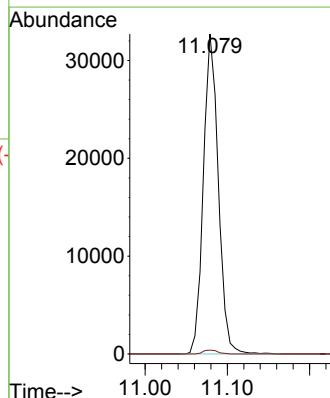
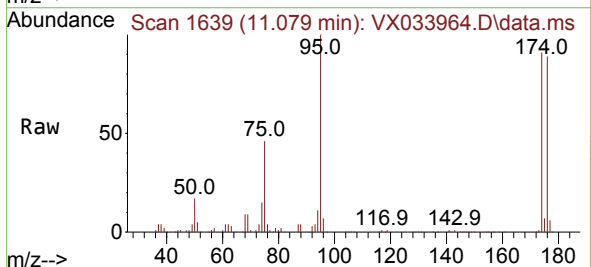
Instrument : MSVOA_X
ClientSampleId : COMP-7-BORING-2-14-21

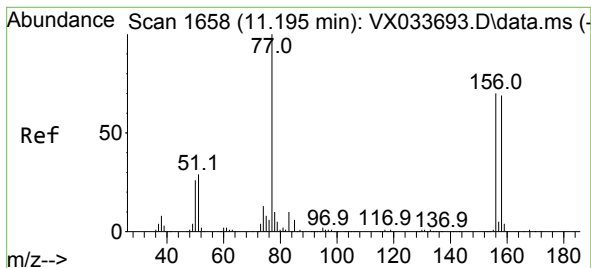
Tgt Ion: 43	Resp: 13444
Ion Ratio	Lower Upper
43	100
70	1.8 34.8 52.2#
55	4.0 19.4 29.0#
61	10.0 19.4 29.2#



#76
1,2,3-Trichloropropane
Concen: 23.170 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.159 min
Lab File: VX033964.D
Acq: 31 Jan 2023 12:22

Tgt Ion: 75	Resp: 41307
Ion Ratio	Lower Upper
75	100
77	1.2 21.8 65.4#





#77

Bromobenzene

Concen: Below Cal

RT: 11.207 min Scan# 1660

Delta R.T. 0.012 min

Lab File: VX033964.D

Acq: 31 Jan 2023 12:22

Instrument :

MSVOA_X

ClientSampleId :

COMP-7-BORING-2-14-21

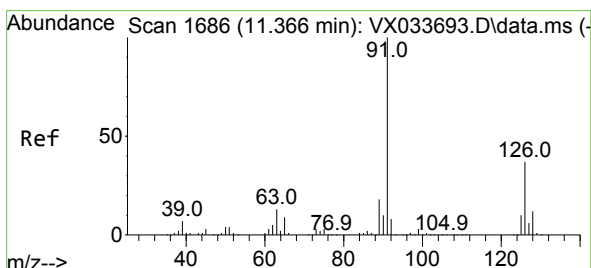
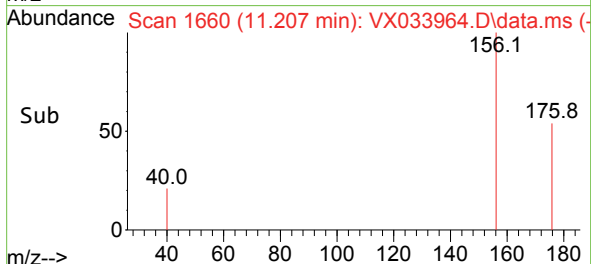
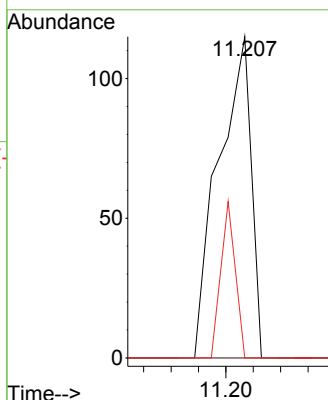
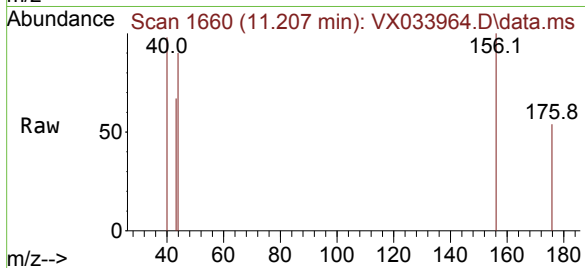
Tgt Ion:156 Resp: 95

Ion Ratio Lower Upper

156 100

77 0.0 68.1 204.3#

158 21.1 48.0 144.2#



#79

2-Chlorotoluene

Concen: Below Cal

RT: 11.365 min Scan# 1686

Delta R.T. -0.001 min

Lab File: VX033964.D

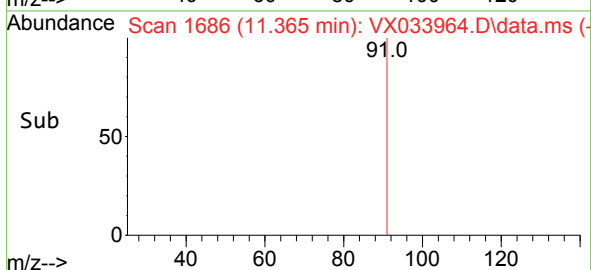
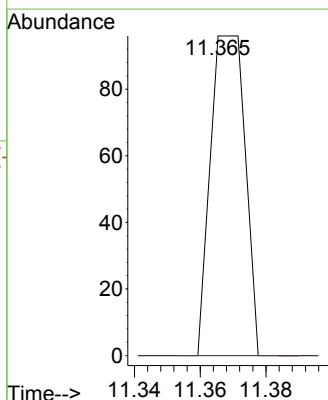
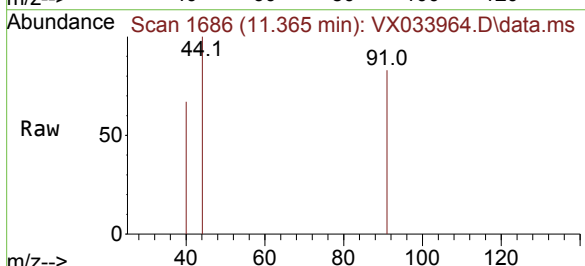
Acq: 31 Jan 2023 12:22

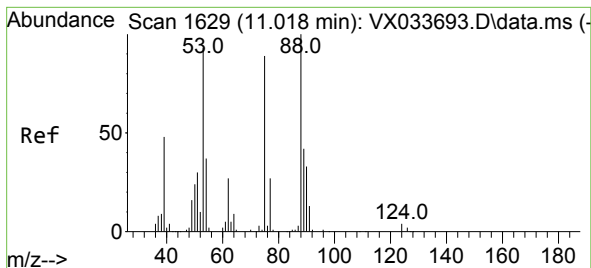
Tgt Ion: 91 Resp: 70

Ion Ratio Lower Upper

91 100

126 0.0 18.1 54.1#

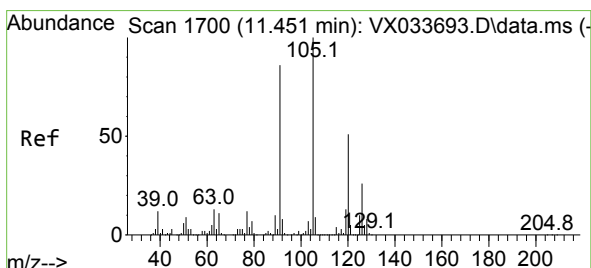
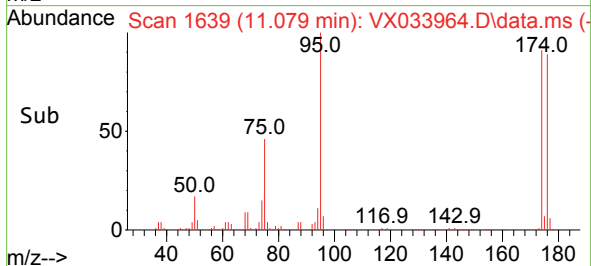
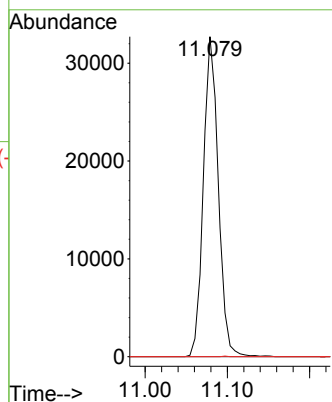
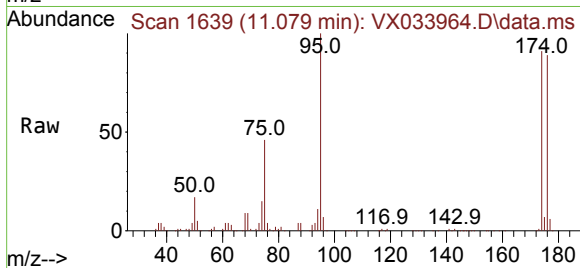




#81
trans-1,4-Dichloro-2-butene
Concen: 72.008 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.060 min
Lab File: VX033964.D
Acq: 31 Jan 2023 12:22

Instrument :
MSVOA_X
ClientSampleId :
COMP-7-BORING-2-14-21

Tgt Ion: 75 Resp: 41307
Ion Ratio Lower Upper
75 100
53 0.0 83.0 124.6#
89 0.1 37.7 56.5#



#82
4-Chlorotoluene
Concen: Below Cal
RT: 11.469 min Scan# 1703
Delta R.T. 0.018 min
Lab File: VX033964.D
Acq: 31 Jan 2023 12:22

Tgt Ion: 91 Resp: 185
Ion Ratio Lower Upper
91 100
126 0.0 15.8 47.4#

