

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092823\
 Data File : VX037952.D
 Acq On : 28 Sep 2023 15:46
 Operator : JC/MD
 Sample : 04661-03
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Sep 29 04:31:04 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X092723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Sep 28 06:08:32 2023
 Response via : Initial Calibration

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

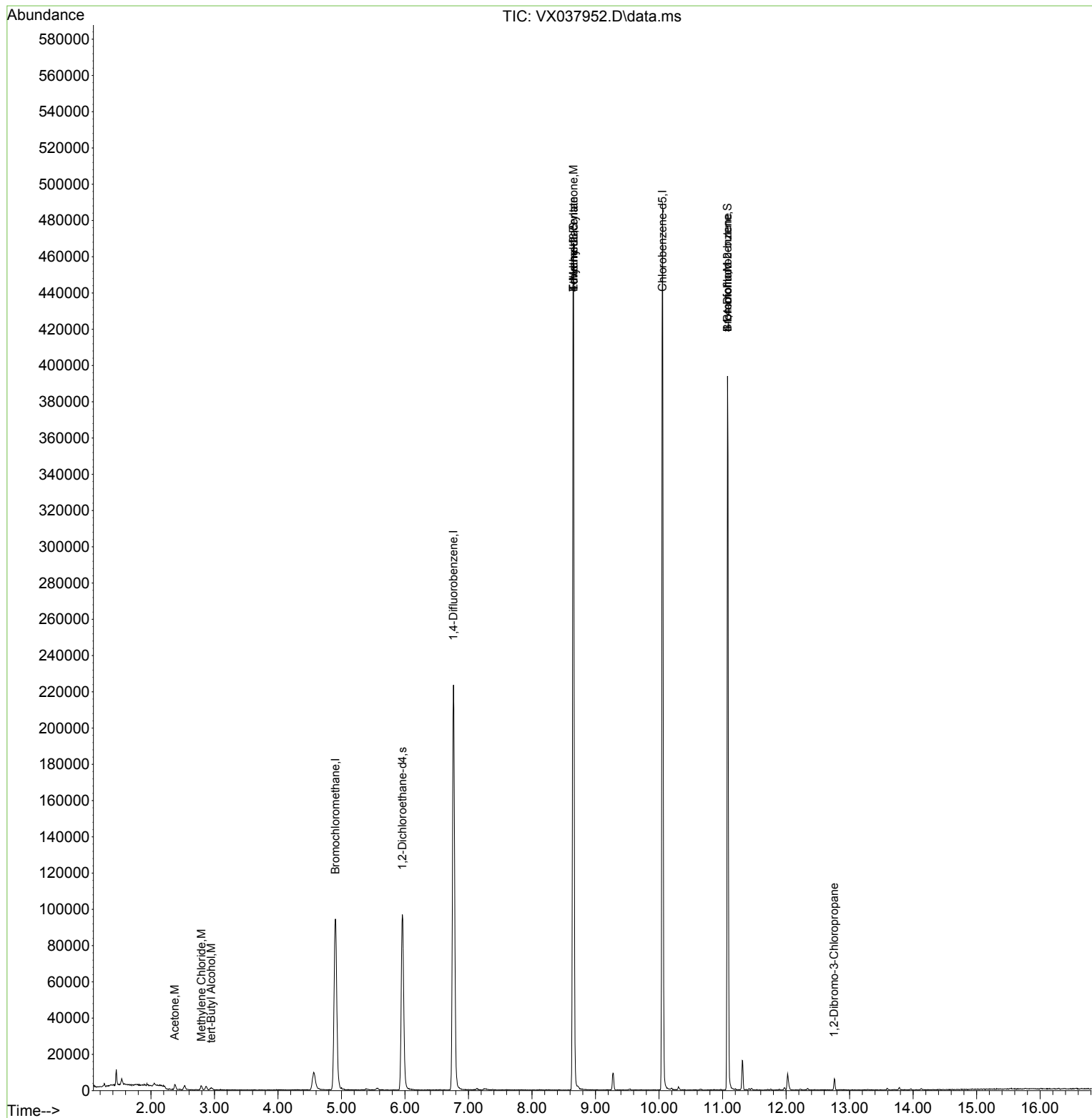
Internal Standards						
1) Bromochloromethane	4.904	128	42709	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	237049	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	225650	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	94089	30.562	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.867%			
60) 4-Bromofluorobenzene	11.079	95	103140	28.039	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 93.467%			
63) Toluene-d8	8.653	98	291872	29.963	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.867%			
Target Compounds						
					Qvalue	
15) Acetone	2.374	58	881	2.454	ug/l	71
18) Methylene Chloride	2.794	84	1203	0.454	ug/l #	84
23) tert-Butyl Alcohol	2.947	59	887	1.713	ug/l #	1
51) Ethyl methacrylate	8.653	69	921	0.226	ug/l	91
56) Bromoform	11.079	173	858	0.401	ug/l #	1
58) 4-Methyl-2-Pentanone	8.653	43	1211	0.367	ug/l #	1
77) t-1,4-Dichloro-2-butene	11.079	75	52450	43.757	ug/l #	7
88) 1,2-Dibromo-3-Chloropr...	12.756	75	214	0.249	ug/l #	14

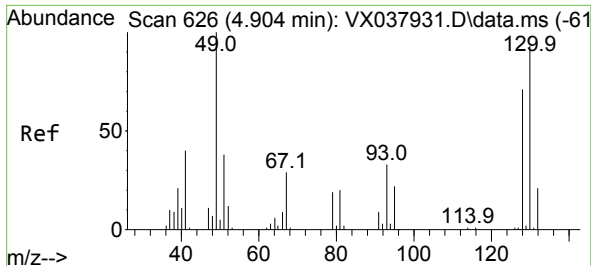
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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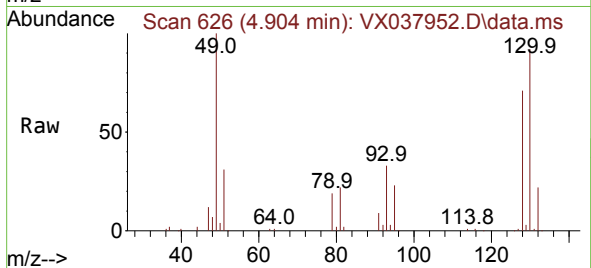
Quant Time: Sep 29 04:31:04 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X092723W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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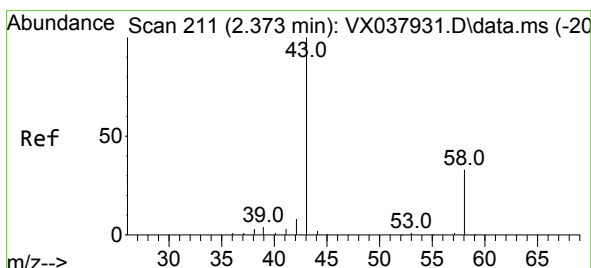
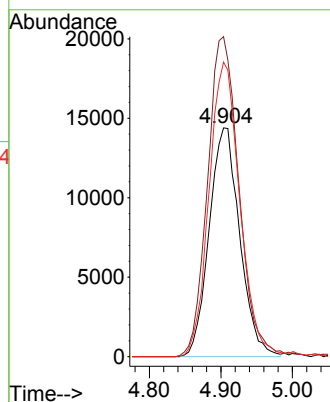
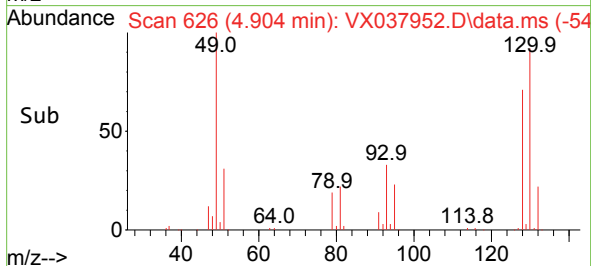


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.904 min Scan# 61
Delta R.T. -0.000 min
Lab File: VX037952.D
Acq: 28 Sep 2023 15:46

Instrument :
MSVOA_X
ClientSampleId :

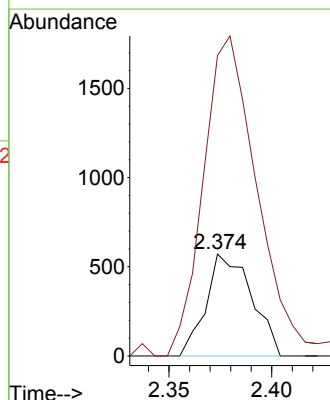
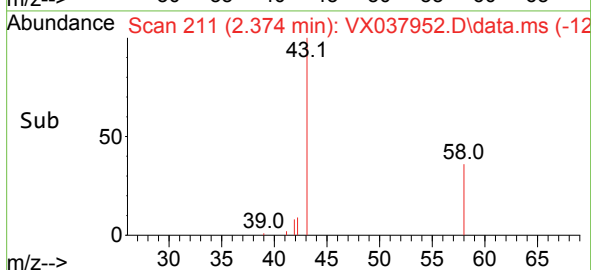
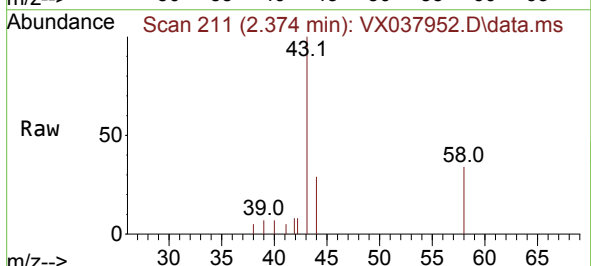


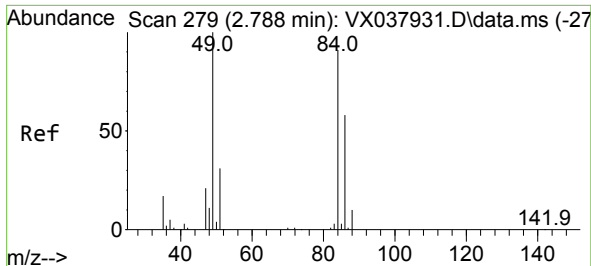
Tgt Ion:128 Resp: 42709
Ion Ratio Lower Upper
128 100
49 143.3 0.0 406.3
130 129.9 0.0 328.0



#15
Acetone
Concen: 2.454 ug/l
RT: 2.374 min Scan# 211
Delta R.T. 0.000 min
Lab File: VX037952.D
Acq: 28 Sep 2023 15:46

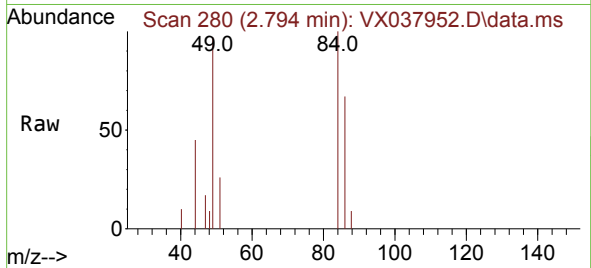
Tgt Ion: 58 Resp: 881
Ion Ratio Lower Upper
58 100
43 265.7 261.0 391.4



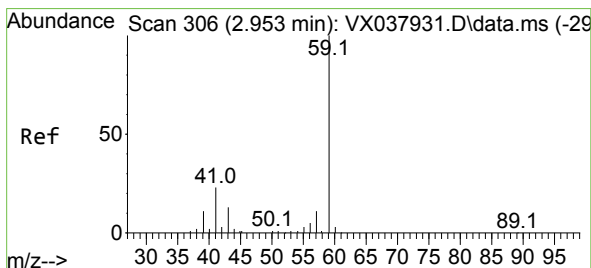
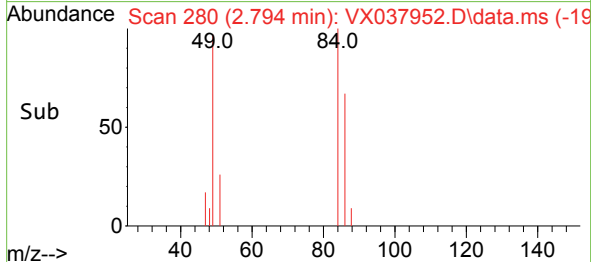
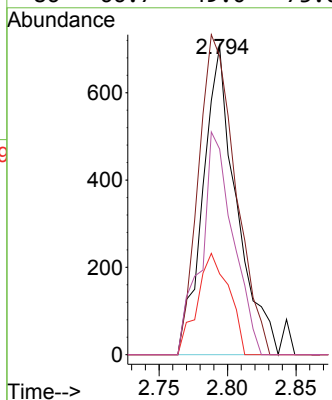


#18
Methylene Chloride
Concen: 0.454 ug/l
RT: 2.794 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX037952.D
Acq: 28 Sep 2023 15:46

Instrument :
MSVOA_X
ClientSampleId :

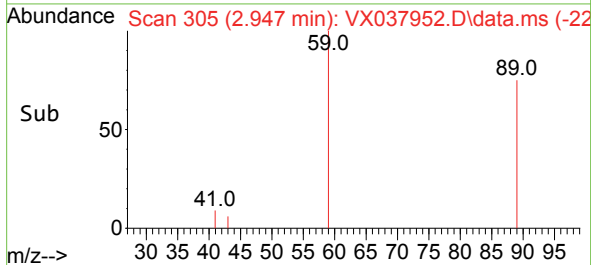
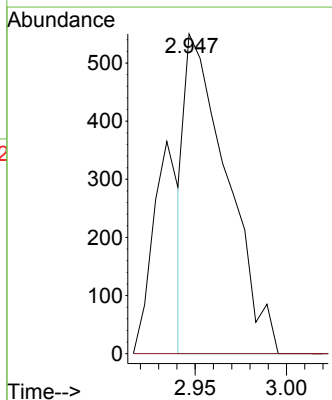
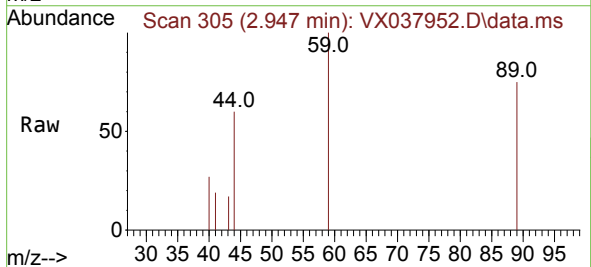


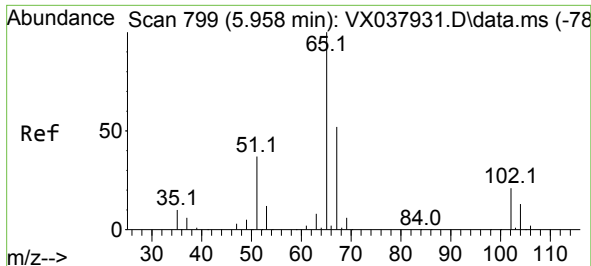
Tgt Ion	Ratio	Lower	Upper
84	100		
49	96.9	95.4	143.0
51	26.2	28.3	42.5#
86	66.7	49.0	73.6



#23
tert-Butyl Alcohol
Concen: 1.713 ug/l
RT: 2.947 min Scan# 305
Delta R.T. -0.006 min
Lab File: VX037952.D
Acq: 28 Sep 2023 15:46

Tgt Ion	Ratio	Lower	Upper
59	100		
52	0.0	142.6	213.8#





#27

1,2-Dichloroethane-d4

Concen: 30.562 ug/l

RT: 5.958 min Scan# 799

Delta R.T. 0.000 min

Lab File: VX037952.D

Acq: 28 Sep 2023 15:46

Instrument :

MSVOA_X

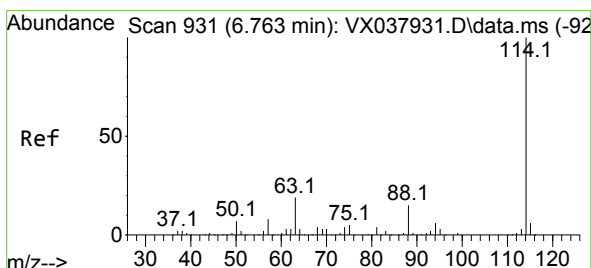
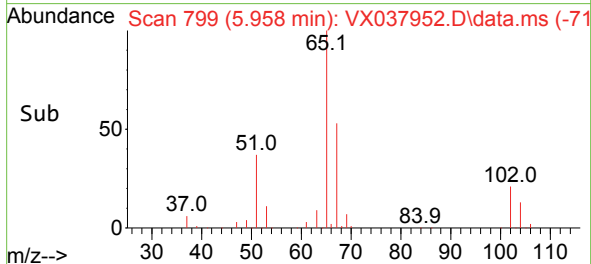
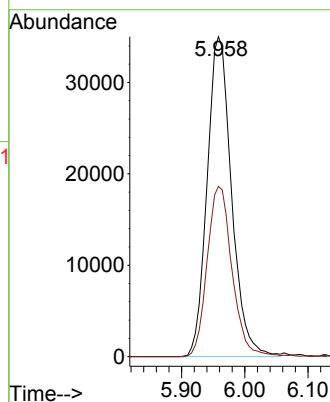
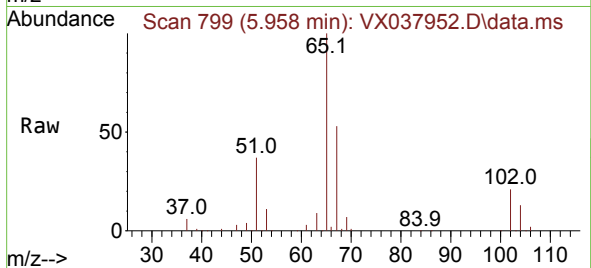
ClientSampleId :

Tgt Ion: 65 Resp: 94089

Ion Ratio Lower Upper

65 100

67 54.0 42.1 63.1



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. 0.000 min

Lab File: VX037952.D

Acq: 28 Sep 2023 15:46

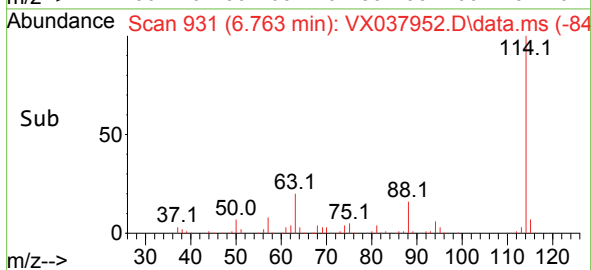
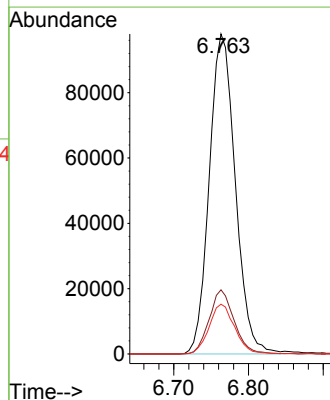
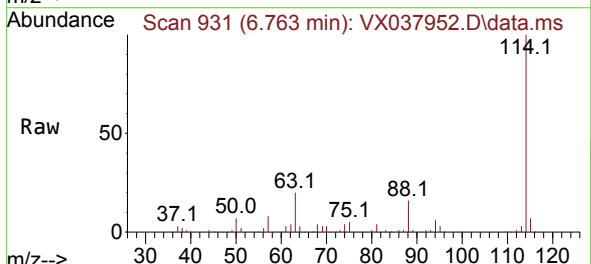
Tgt Ion: 114 Resp: 237049

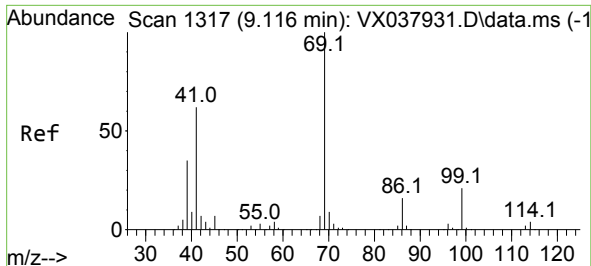
Ion Ratio Lower Upper

114 100

63 19.2 16.6 24.8

88 15.3 12.9 19.3

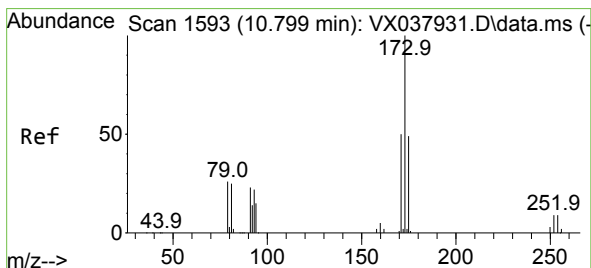
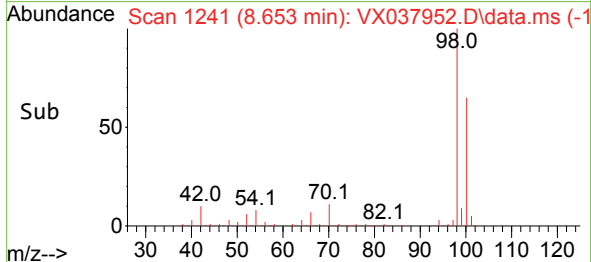
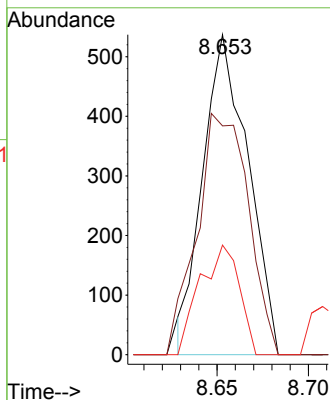
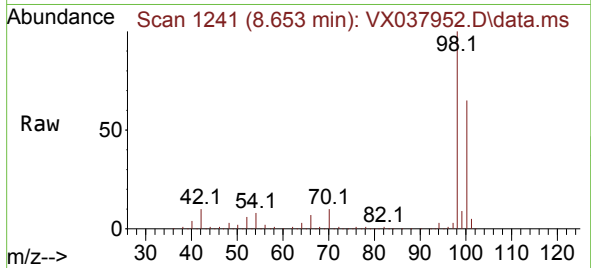




#51
Ethyl methacrylate
Concen: 0.226 ug/l
RT: 8.653 min Scan# 11
Delta R.T. -0.463 min
Lab File: VX037952.D
Acq: 28 Sep 2023 15:46

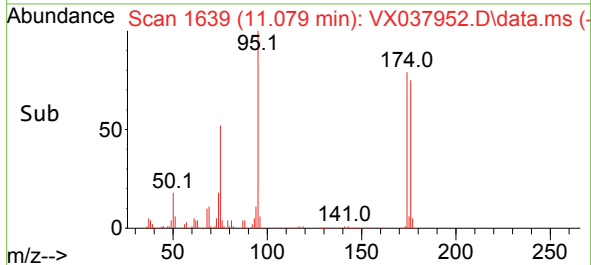
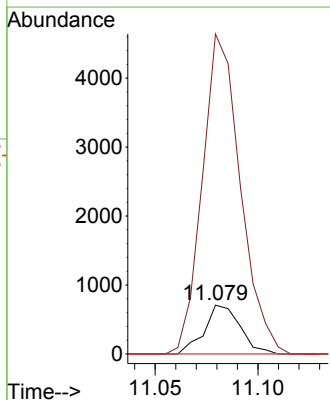
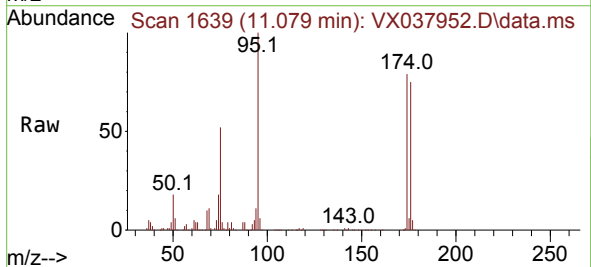
Instrument :
MSVOA_X
ClientSampleId :

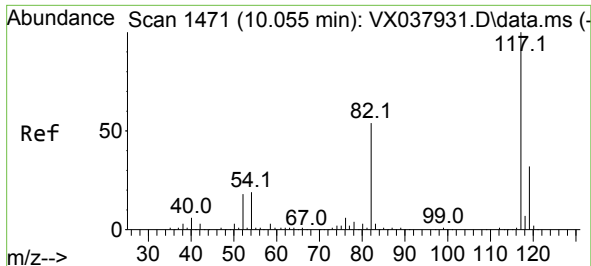
Tgt Ion: 69 Resp: 921
Ion Ratio Lower Upper
69 100
41 71.5 32.0 96.0
39 34.3 19.4 58.4



#56
Bromoform
Concen: 0.401 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.281 min
Lab File: VX037952.D
Acq: 28 Sep 2023 15:46

Tgt Ion: 173 Resp: 858
Ion Ratio Lower Upper
173 100
175 697.7 38.1 57.1#
254 0.0 6.7 10.1#





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

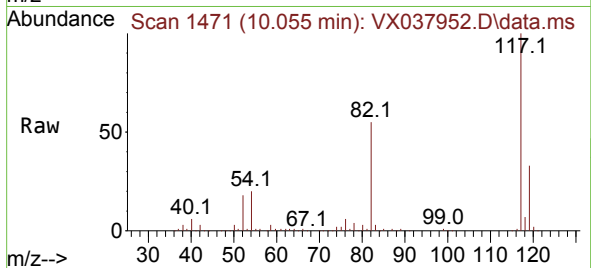
Lab File: VX037952.D

Acq: 28 Sep 2023 15:46

Instrument :

MSVOA_X

ClientSampleId :



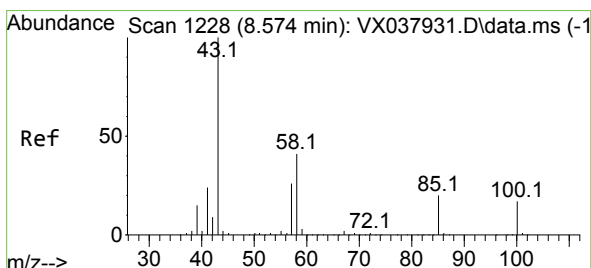
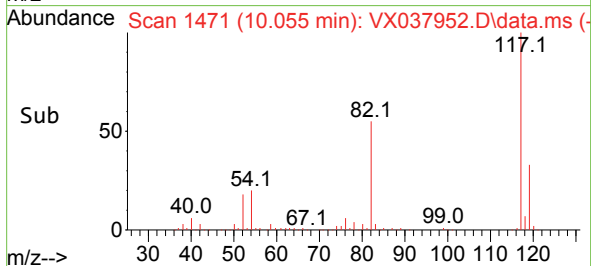
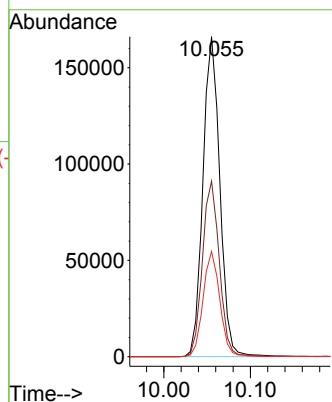
Tgt Ion:117 Resp: 225650

Ion Ratio Lower Upper

117 100

82 54.7 44.7 67.1

119 32.6 25.6 38.4



#58

4-Methyl-2-Pentanone

Concen: 0.367 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. 0.079 min

Lab File: VX037952.D

Acq: 28 Sep 2023 15:46

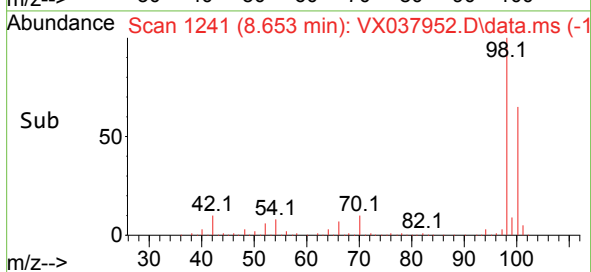
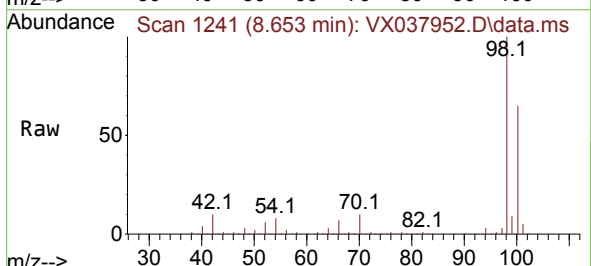
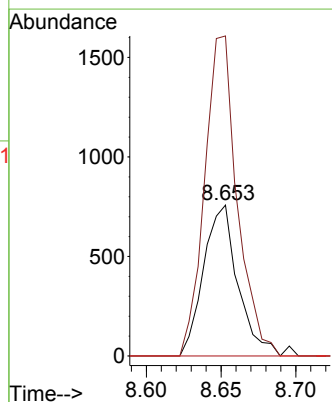
Tgt Ion: 43 Resp: 1211

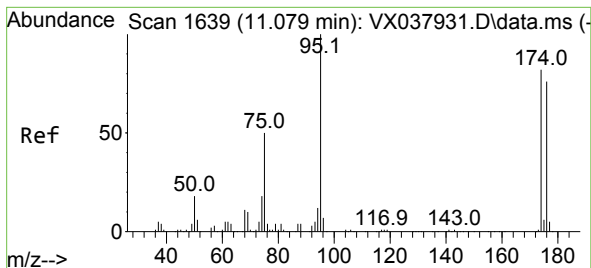
Ion Ratio Lower Upper

43 100

58 202.1 30.9 46.3#

85 0.0 14.4 21.6#

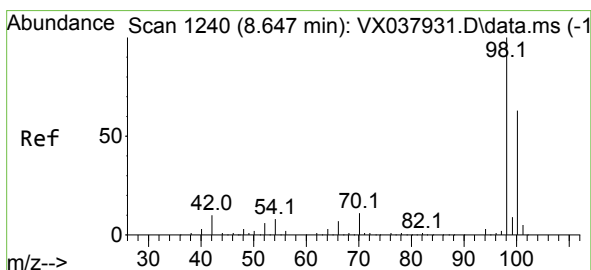
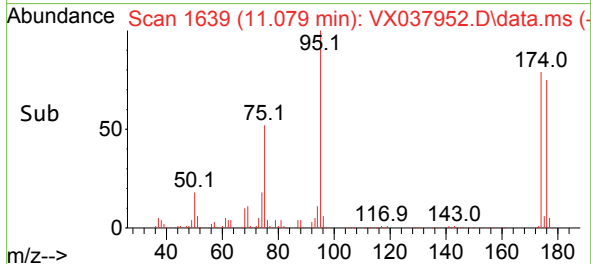
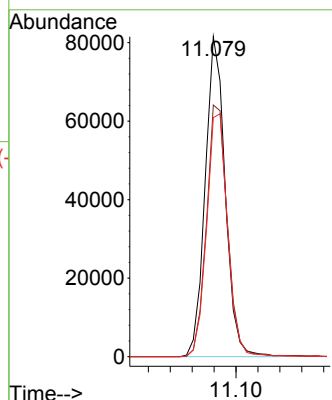
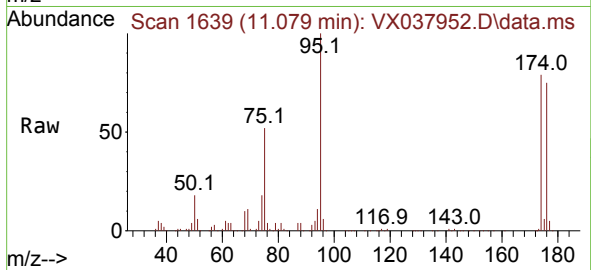




#60
4-Bromofluorobenzene
Concen: 28.039 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX037952.D
Acq: 28 Sep 2023 15:46

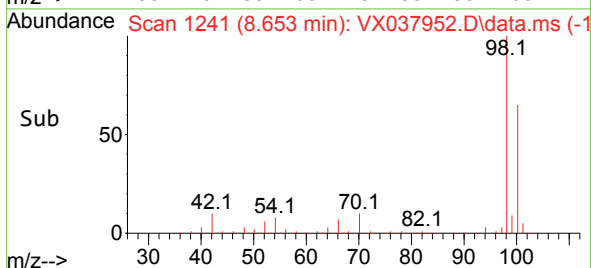
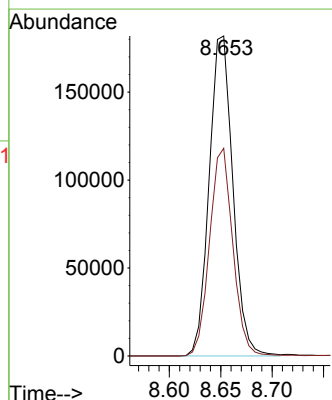
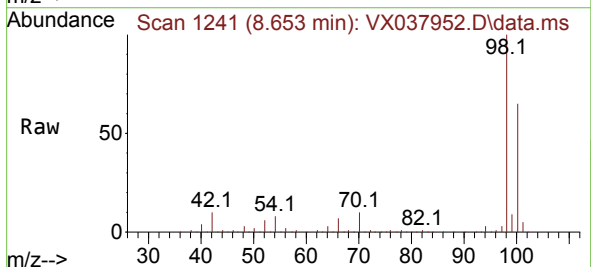
Instrument :
MSVOA_X
ClientSampleId :

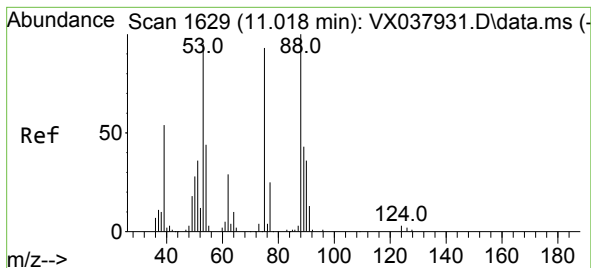
Tgt Ion: 95 Resp: 103140
Ion Ratio Lower Upper
95 100
174 82.7 60.5 90.7
176 79.6 58.2 87.4



#63
Toluene-d8
Concen: 29.963 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. 0.006 min
Lab File: VX037952.D
Acq: 28 Sep 2023 15:46

Tgt Ion: 98 Resp: 291872
Ion Ratio Lower Upper
98 100
100 63.5 51.6 77.4

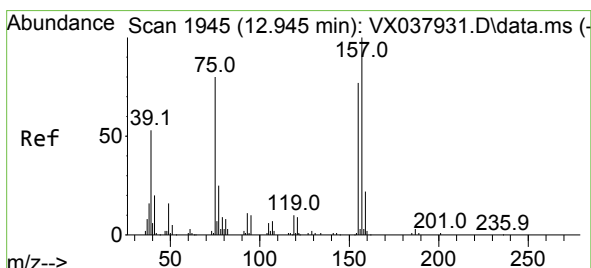
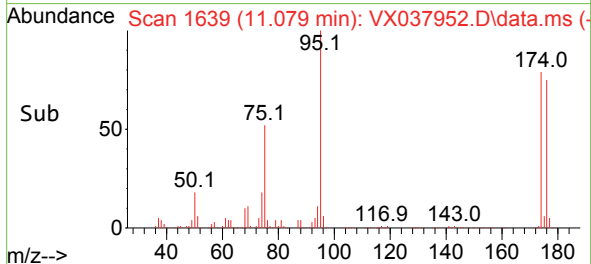
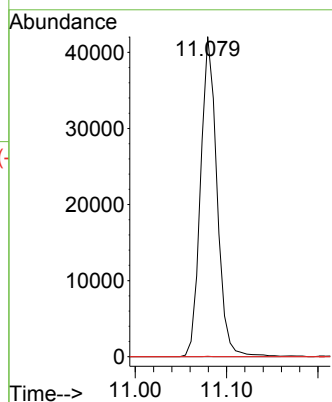
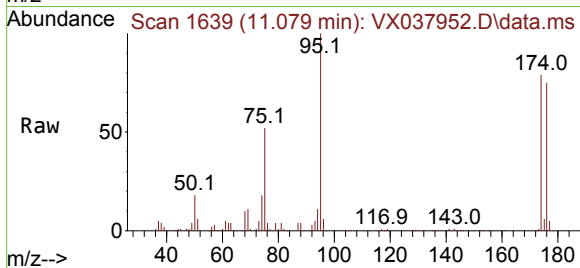




#77
 t-1,4-Dichloro-2-butene
 Concen: 43.757 ug/l
 RT: 11.079 min Scan# 1
 Delta R.T. 0.061 min
 Lab File: VX037952.D
 Acq: 28 Sep 2023 15:46

Instrument :
 MSVOA_X
 ClientSampleId :

Tgt Ion: 75 Resp: 52450
 Ion Ratio Lower Upper
 75 100
 53 0.0 53.9 161.7#
 89 0.2 22.1 66.1#



#88
 1,2-Dibromo-3-Chloropropane
 Concen: 0.249 ug/l
 RT: 12.756 min Scan# 1914
 Delta R.T. -0.189 min
 Lab File: VX037952.D
 Acq: 28 Sep 2023 15:46

Tgt Ion: 75 Resp: 214
 Ion Ratio Lower Upper
 75 100
 155 20.6 62.7 94.1#
 157 0.0 81.5 122.3#

