

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX111122\
 Data File : VX032779.D
 Acq On : 11 Nov 2022 16:57
 Operator : JC/MD
 Sample : N5609-01 5X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Nov 14 05:14:33 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X111022W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 11 05:24:06 2022
 Response via : Initial Calibration

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

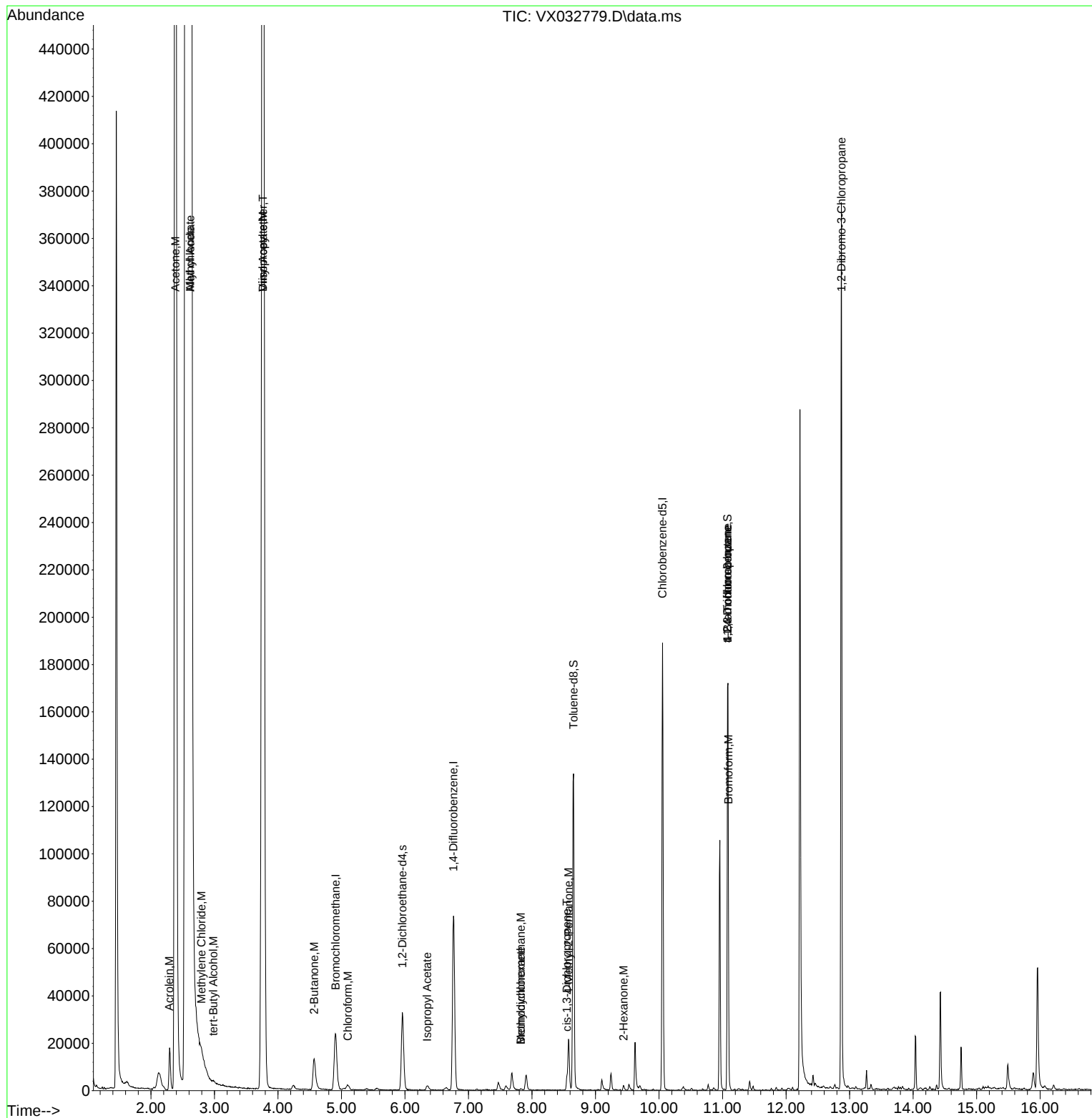
Internal Standards						
1) Bromochloromethane	4.909	128	10413	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	75383	30.000	ug/l	# 0.00
57) Chlorobenzene-d5	10.055	117	81315	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	32062	31.916	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	106.400%
60) 4-Bromofluorobenzene	11.079	95	44466	28.587	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	95.300%
63) Toluene-d8	8.653	98	80815	29.449	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	98.167%
Target Compounds						
					Qvalue	
12) Methyl Acetate	2.617	43	5290811	3525.871	ug/l	# 44
13) Acrolein	2.288	56	226	1.129	ug/l	# 1
15) Acetone	2.386	58	453329	3240.881	ug/l	82
17) Allyl chloride	2.617	41	2123685	1319.409	ug/l	# 64
18) Methylene Chloride	2.794	84	815	0.698	ug/l	91
20) Diisopropyl ether	3.763	45	881029	244.107	ug/l	# 69
23) tert-Butyl Alcohol	2.983	59	680	3.893	ug/l	# 100
25) Chloroform	5.098	83	2090	0.925	ug/l	86
30) 2-Butanone	4.568	43	18966	24.329	ug/l	# 91
38) Methylcyclohexane	7.824	83	393	0.210	ug/l	# 47
41) Bromodichloromethane	7.824	83	393	0.226	ug/l	# 73
42) Vinyl Acetate	3.763	43	470695	157.139	ug/l	# 68
44) Isopropyl Acetate	6.348	43	2109	0.803	ug/l	# 72
49) cis-1,3-Dichloropropene	8.549	75	1007	0.536	ug/l	# 61
56) Bromoform	11.091	173	428	0.439	ug/l	# 1
58) 4-Methyl-2-Pentanone	8.573	43	14847	9.327	ug/l	# 83
59) 2-Hexanone	9.439	43	1537	1.311	ug/l	# 80
72) 1,2,3-Trichloropropane	11.079	75	24553	15.413	ug/l	38
77) t-1,4-Dichloro-2-butene	11.079	75	24553	50.508	ug/l	# 8
88) 1,2-Dibromo-3-Chloropr...	12.871	75	8784	22.572	ug/l	# 1

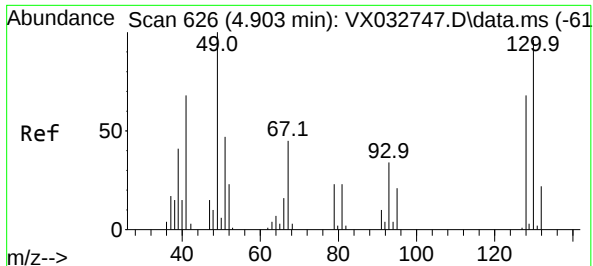
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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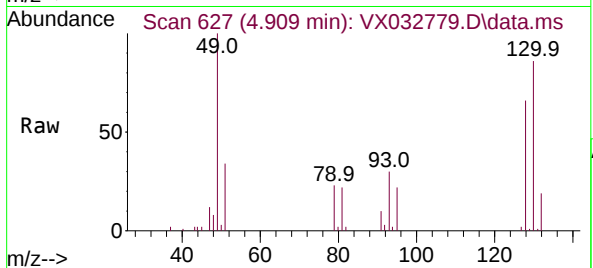
Quant Time: Nov 14 05:14:33 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X111022W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 11 05:24:06 2022
Response via : Initial Calibration



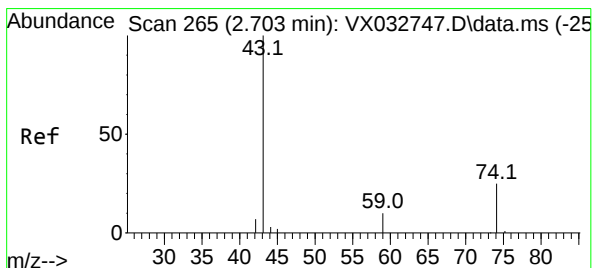
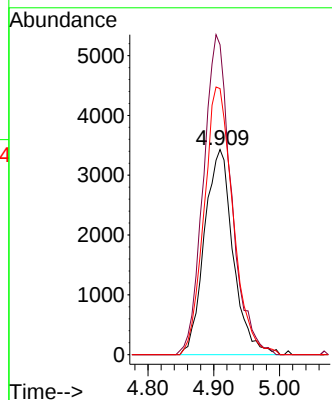
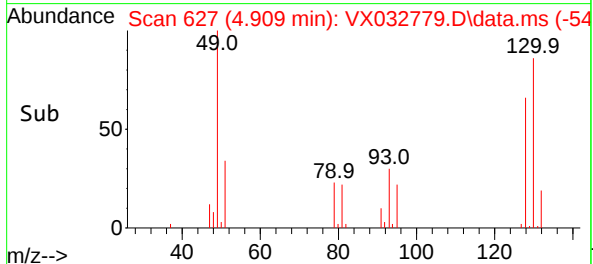


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.909 min Scan# 61
Delta R.T. 0.006 min
Lab File: VX032779.D
Acq: 11 Nov 2022 16:57

Instrument :
MSVOA_X
ClientSampleId :

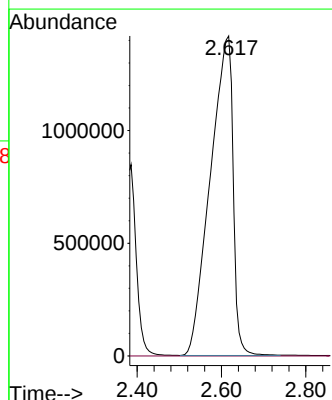
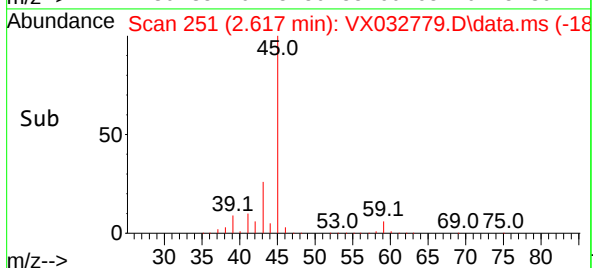
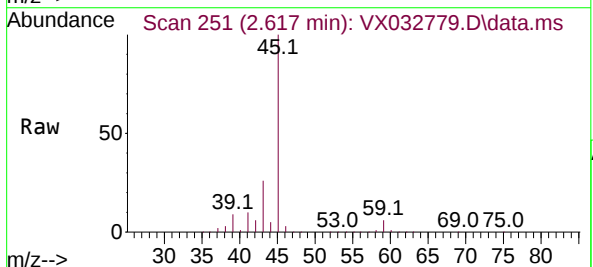


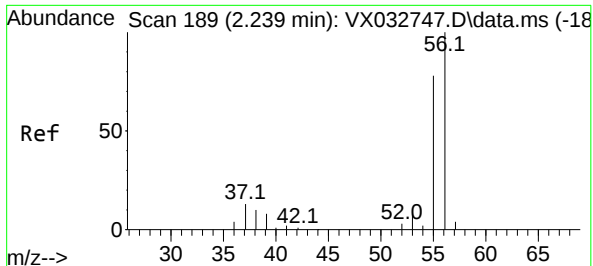
Tgt Ion:128 Resp: 10413
Ion Ratio Lower Upper
128 100
49 151.4 0.0 293.0
130 131.7 0.0 321.5



#12
Methyl Acetate
Concen: 3525.871 ug/l
RT: 2.617 min Scan# 251
Delta R.T. -0.085 min
Lab File: VX032779.D
Acq: 11 Nov 2022 16:57

Tgt Ion: 43 Resp: 5290811
Ion Ratio Lower Upper
43 100
74 0.0 24.8 37.2#





#13

Acrolein

Concen: 1.129 ug/l

RT: 2.288 min Scan# 197

Delta R.T. 0.049 min

Lab File: VX032779.D

Acq: 11 Nov 2022 16:57

Instrument :

MSVOA_X

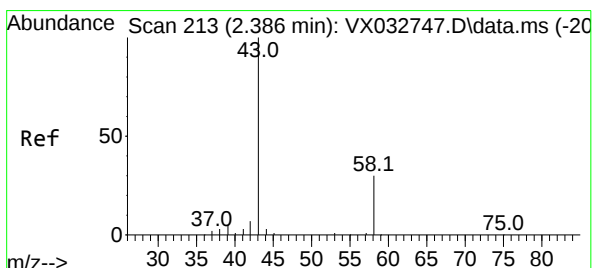
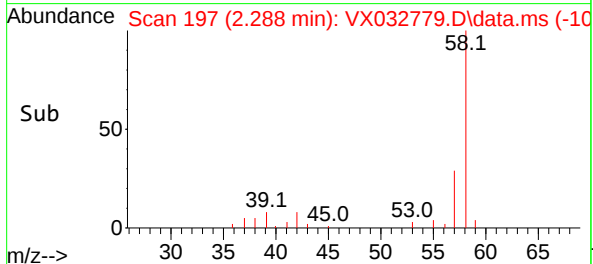
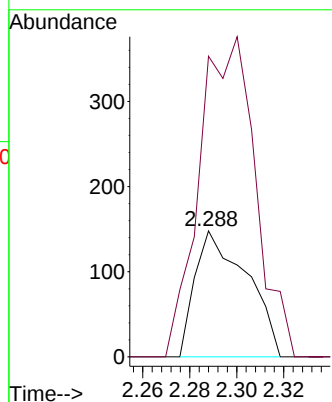
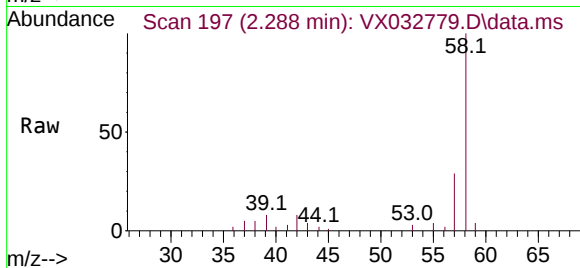
ClientSampleId :

Tgt Ion: 56 Resp: 226

Ion Ratio Lower Upper

56 100

55 275.2 58.4 87.6#



#15

Acetone

Concen: 3240.881 ug/l

RT: 2.386 min Scan# 213

Delta R.T. -0.000 min

Lab File: VX032779.D

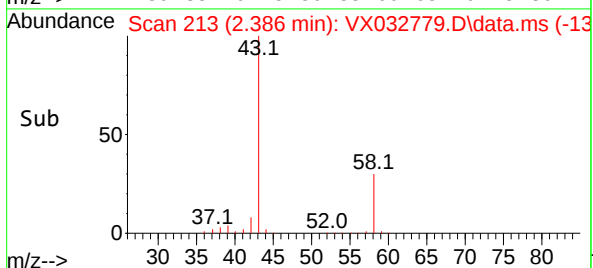
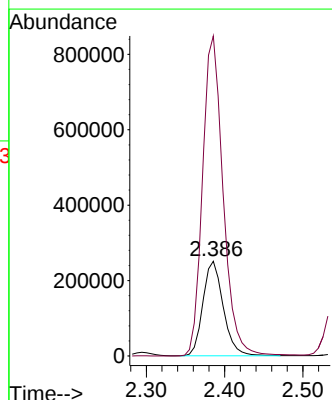
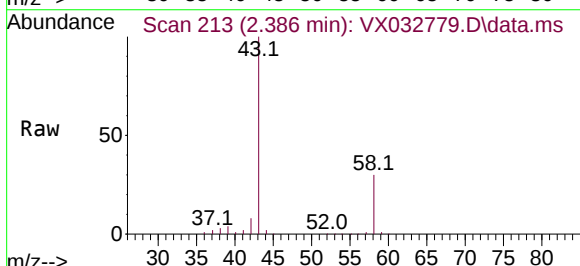
Acq: 11 Nov 2022 16:57

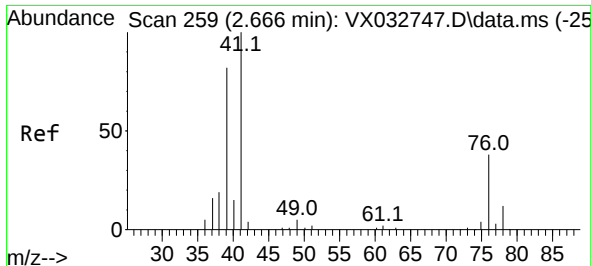
Tgt Ion: 58 Resp: 453329

Ion Ratio Lower Upper

58 100

43 337.9 242.6 364.0





#17

Allyl chloride

Concen: 1319.409 ug/l

RT: 2.617 min Scan# 21

Delta R.T. -0.049 min

Lab File: VX032779.D

Acq: 11 Nov 2022 16:57

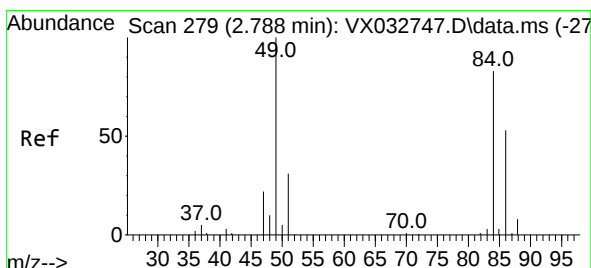
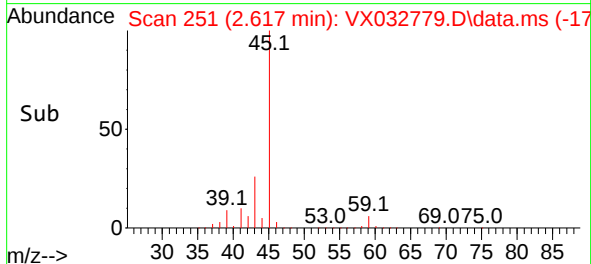
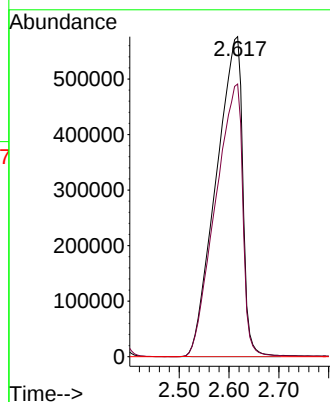
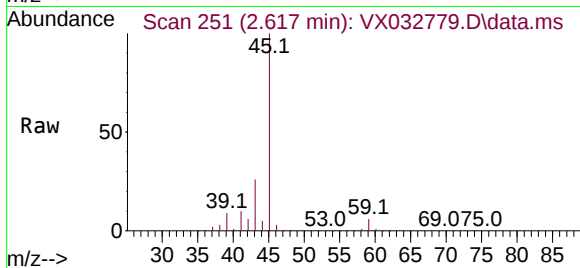
Instrument :

MSVOA_X

ClientSampleId :

Tgt Ion: 41 Resp: 2123685

Ion	Ratio	Lower	Upper
41	100		
39	85.2	37.0	111.0
76	0.0	23.8	71.5#



#18

Methylene Chloride

Concen: 0.698 ug/l

RT: 2.794 min Scan# 280

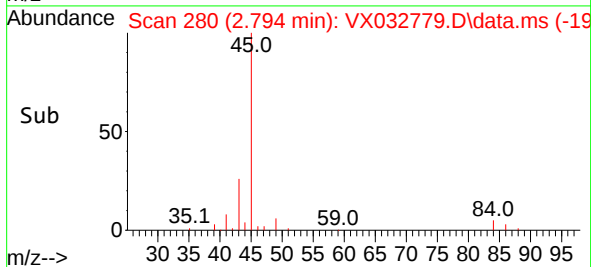
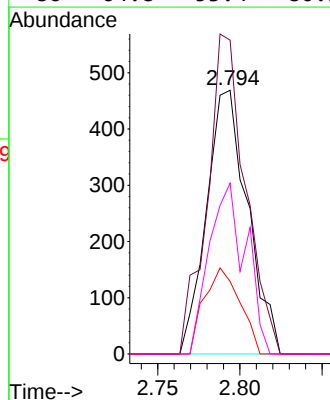
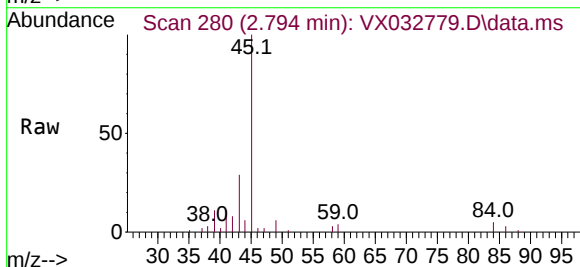
Delta R.T. 0.006 min

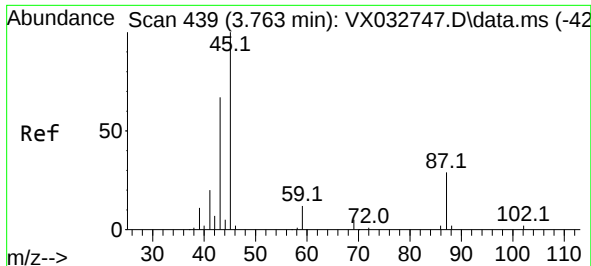
Lab File: VX032779.D

Acq: 11 Nov 2022 16:57

Tgt Ion: 84 Resp: 815

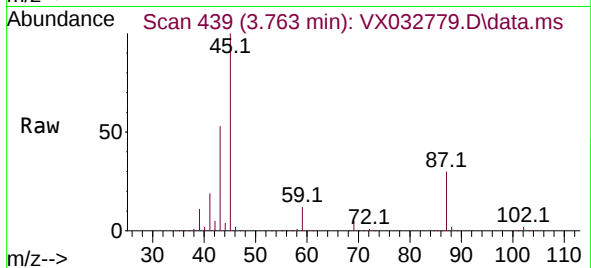
Ion	Ratio	Lower	Upper
84	100		
49	119.0	84.6	127.0
51	27.5	26.5	39.7
86	64.8	53.4	80.2



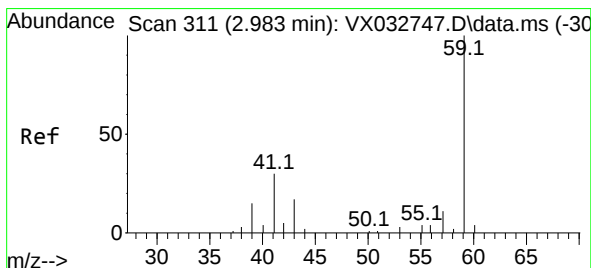
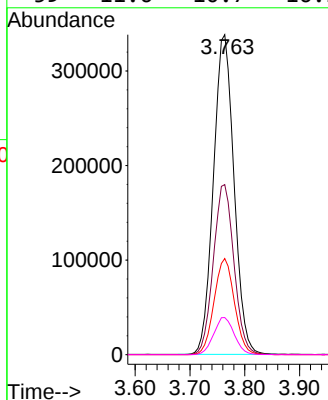
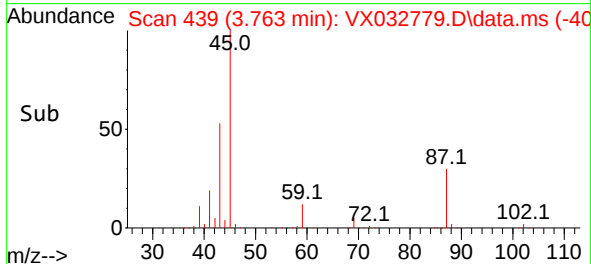


#20
Diisopropyl ether
Concen: 244.107 ug/l
RT: 3.763 min Scan# 41
Delta R.T. -0.000 min
Lab File: VX032779.D
Acq: 11 Nov 2022 16:57

Instrument :
MSVOA_X
ClientSampleId :

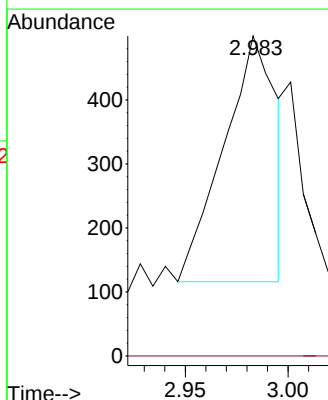
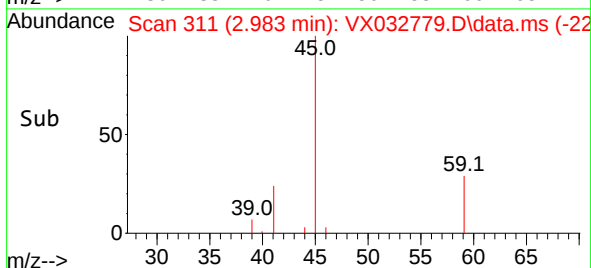
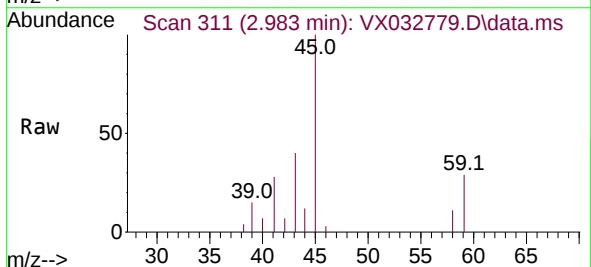


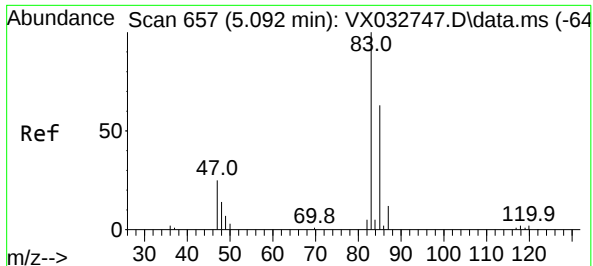
Tgt Ion:	45	43	87	59
Ratio	100	53.2	30.1	11.6
Lower		74.5	30.4	10.7
Upper		111.7#	45.6#	16.1



#23
tert-Butyl Alcohol
Concen: 3.893 ug/l
RT: 2.983 min Scan# 311
Delta R.T. -0.000 min
Lab File: VX032779.D
Acq: 11 Nov 2022 16:57

Tgt Ion:	59	52
Ratio	100	0.0
Lower		0.0
Upper		0.0

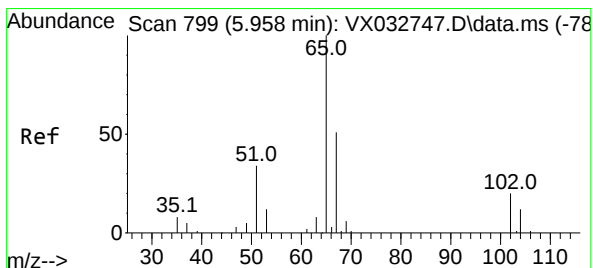
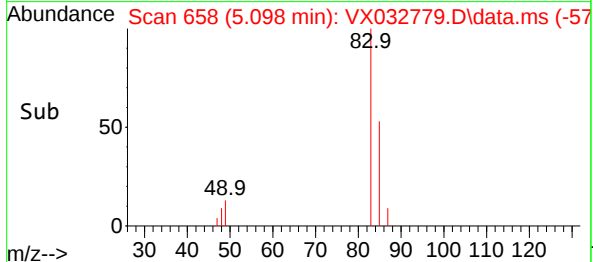
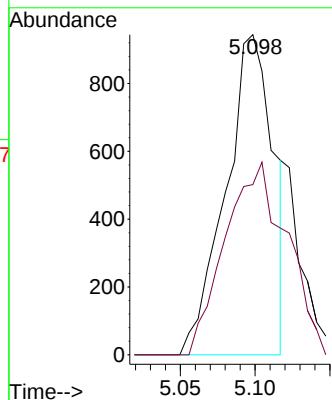
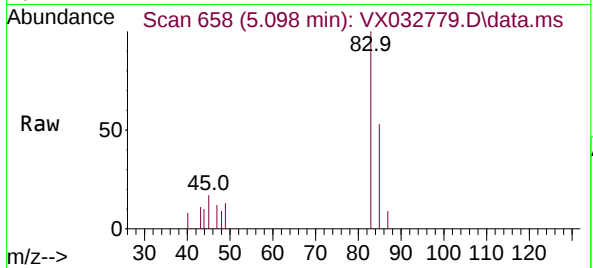




#25
Chloroform
Concen: 0.925 ug/l
RT: 5.098 min Scan# 61
Delta R.T. 0.006 min
Lab File: VX032779.D
Acq: 11 Nov 2022 16:57

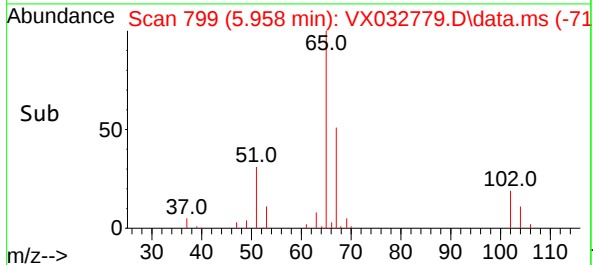
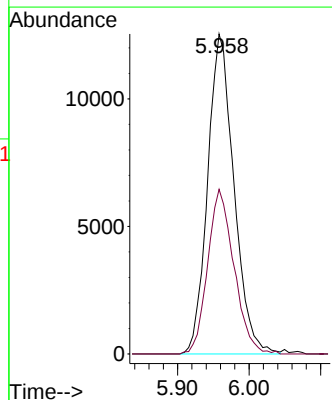
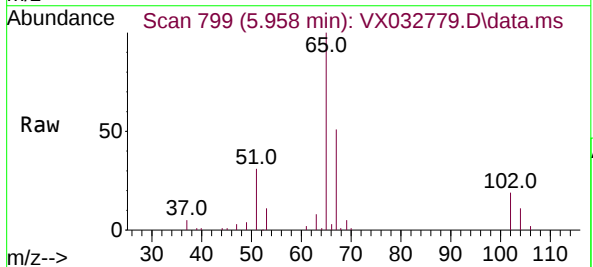
Instrument :
MSVOA_X
ClientSampleId :

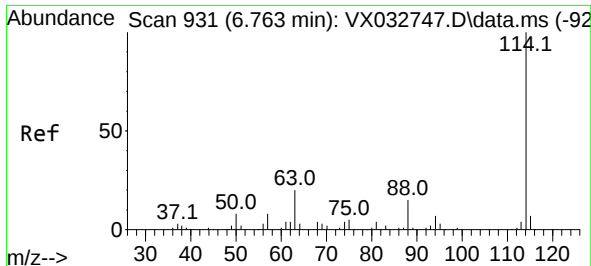
Tgt Ion: 83 Resp: 2090
Ion Ratio Lower Upper
83 100
85 53.2 51.4 77.0



#27
1,2-Dichloroethane-d4
Concen: 31.916 ug/l
RT: 5.958 min Scan# 799
Delta R.T. -0.000 min
Lab File: VX032779.D
Acq: 11 Nov 2022 16:57

Tgt Ion: 65 Resp: 32062
Ion Ratio Lower Upper
65 100
67 51.4 41.8 62.6





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.763 min Scan# 91

Delta R.T. -0.000 min

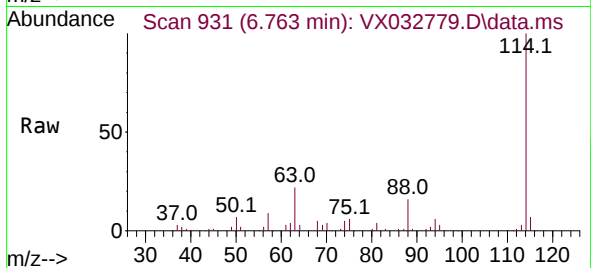
Lab File: VX032779.D

Acq: 11 Nov 2022 16:57

Instrument :

MSVOA_X

ClientSampleId :



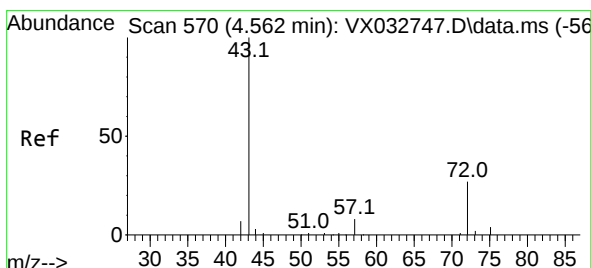
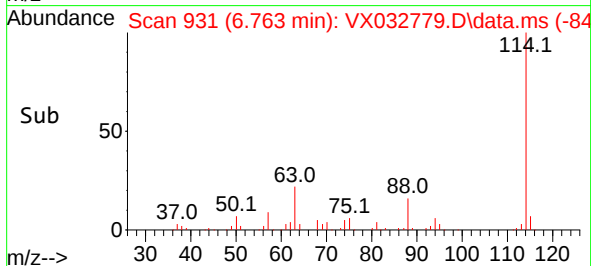
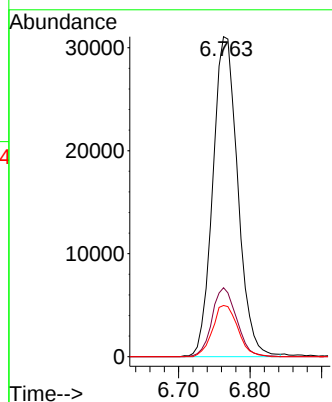
Tgt Ion:114 Resp: 75383

Ion Ratio Lower Upper

114 100

63 21.2 13.6 20.4#

88 16.2 11.8 17.6



#30

2-Butanone

Concen: 24.329 ug/l

RT: 4.568 min Scan# 571

Delta R.T. 0.006 min

Lab File: VX032779.D

Acq: 11 Nov 2022 16:57

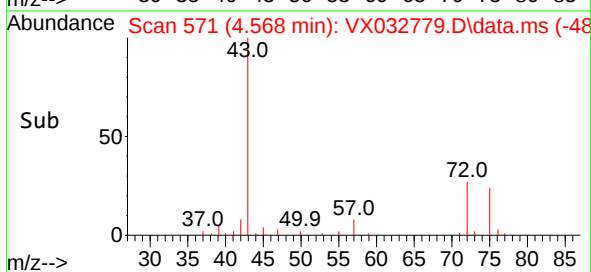
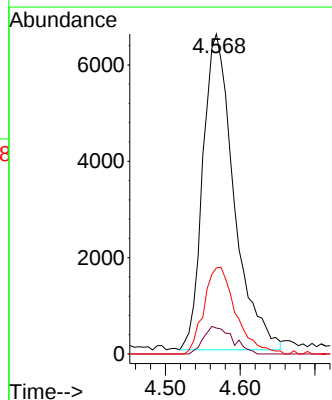
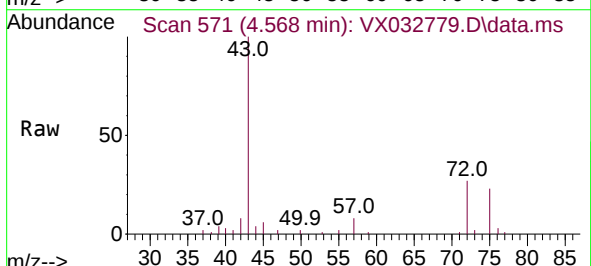
Tgt Ion: 43 Resp: 18966

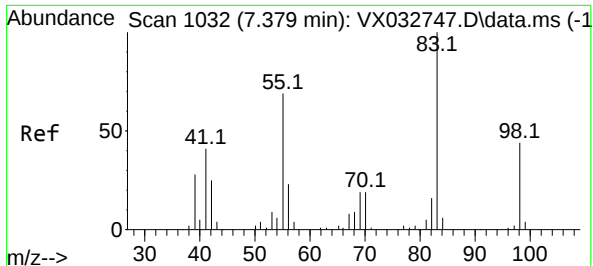
Ion Ratio Lower Upper

43 100

57 7.0 7.5 11.3#

72 28.0 26.6 39.8

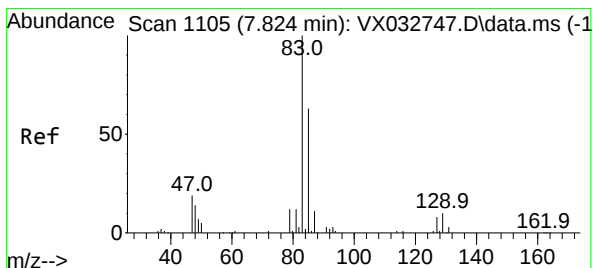
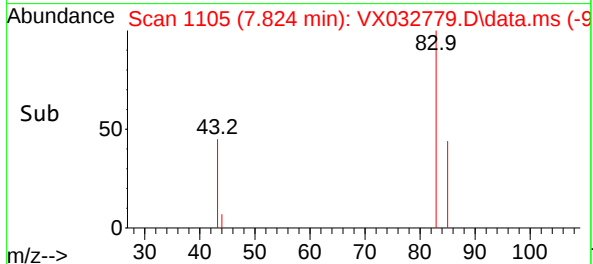
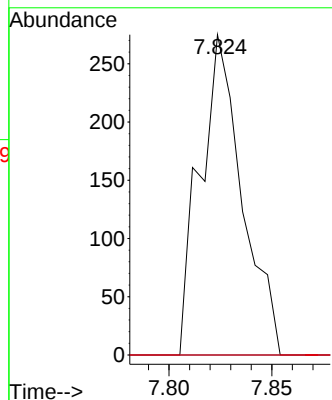
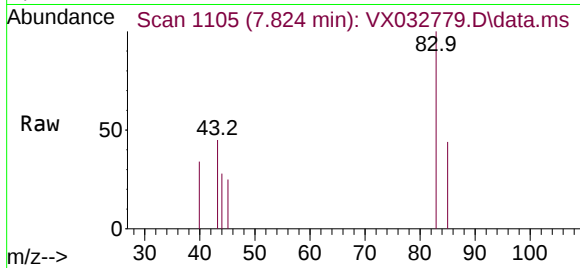




#38
Methylcyclohexane
Concen: 0.210 ug/l
RT: 7.824 min Scan# 1105
Delta R.T. 0.445 min
Lab File: VX032779.D
Acq: 11 Nov 2022 16:57

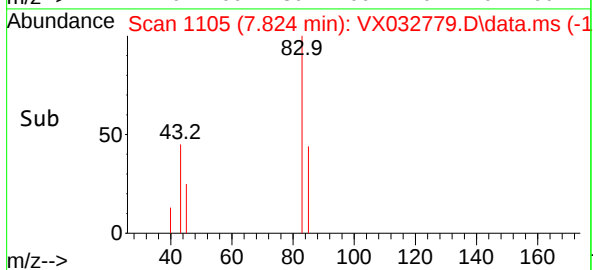
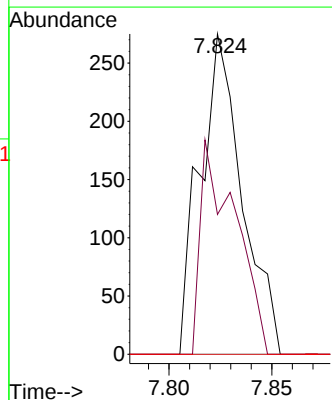
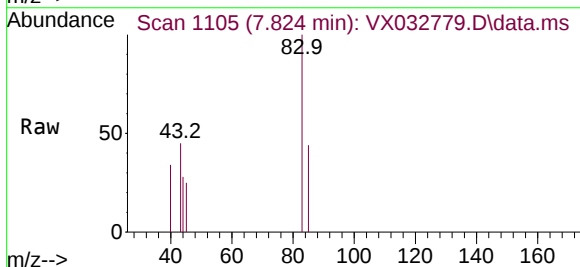
Instrument :
MSVOA_X
ClientSampleId :

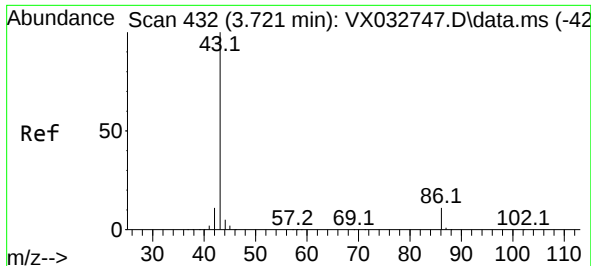
Tgt Ion: 83	Resp:	393
Ion	Ratio	Lower Upper
83	100	
55	36.4	31.6 94.7
98	0.0	26.9 80.6



#41
Bromodichloromethane
Concen: 0.226 ug/l
RT: 7.824 min Scan# 1105
Delta R.T. -0.000 min
Lab File: VX032779.D
Acq: 11 Nov 2022 16:57

Tgt Ion: 83	Resp:	393
Ion	Ratio	Lower Upper
83	100	
85	43.6	52.3 78.5
127	0.0	6.8 10.2

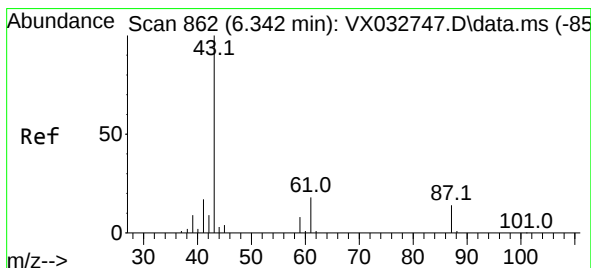
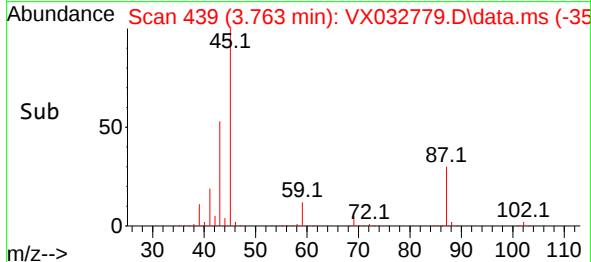
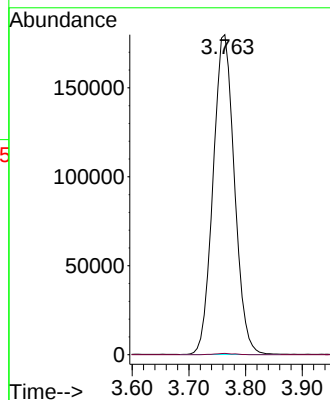
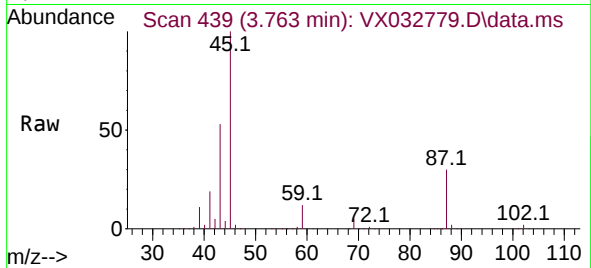




#42
 Vinyl Acetate
 Concen: 157.139 ug/l
 RT: 3.763 min Scan# 41
 Delta R.T. 0.043 min
 Lab File: VX032779.D
 Acq: 11 Nov 2022 16:57

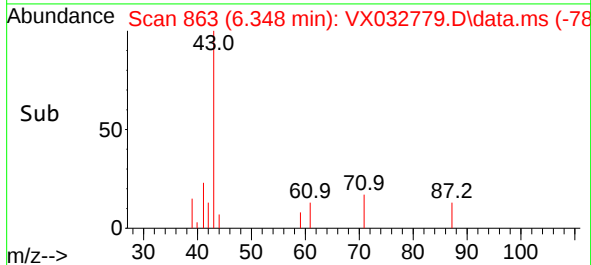
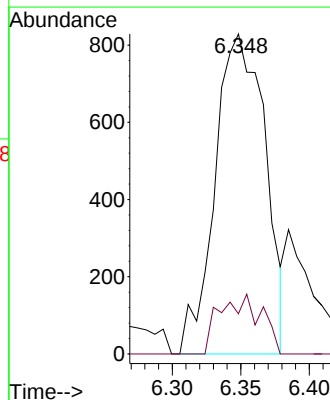
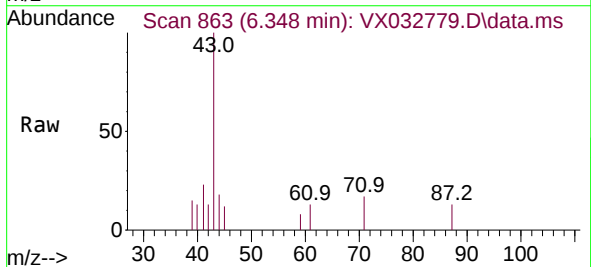
Instrument :
 MSVOA_X
 ClientSampleId :

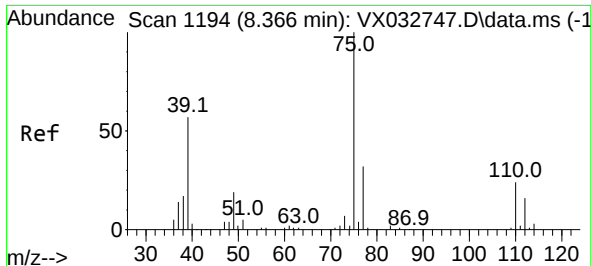
Tgt Ion: 43 Resp: 470695
 Ion Ratio Lower Upper
 43 100
 86 0.3 10.3 15.5#



#44
 Isopropyl Acetate
 Concen: 0.803 ug/l
 RT: 6.348 min Scan# 863
 Delta R.T. 0.006 min
 Lab File: VX032779.D
 Acq: 11 Nov 2022 16:57

Tgt Ion: 43 Resp: 2109
 Ion Ratio Lower Upper
 43 100
 61 8.1 17.2 25.8#





#49

cis-1,3-Dichloropropene

Concen: 0.536 ug/l

RT: 8.549 min Scan# 11

Delta R.T. 0.183 min

Lab File: VX032779.D

Acq: 11 Nov 2022 16:57

Instrument :

MSVOA_X

ClientSampleId :

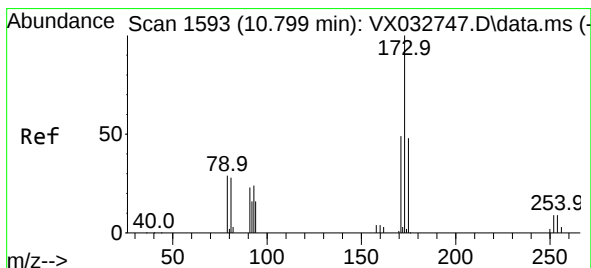
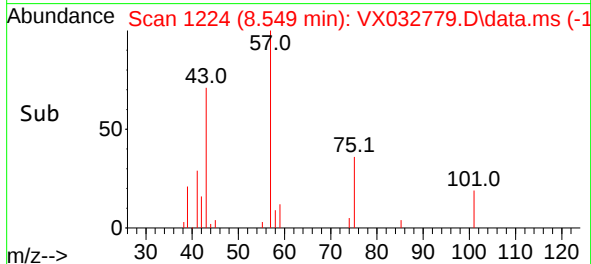
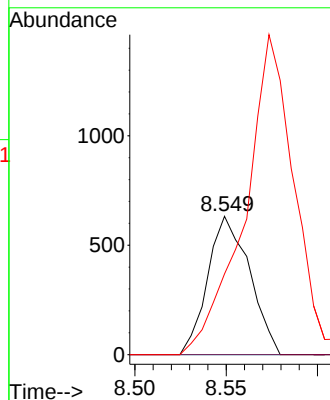
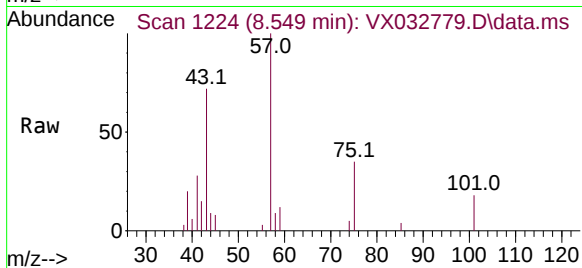
Tgt Ion: 75 Resp: 1007

Ion Ratio Lower Upper

75 100

77 0.0 25.7 38.5#

39 58.4 34.1 51.1#



#56

Bromoform

Concen: 0.439 ug/l

RT: 11.091 min Scan# 1641

Delta R.T. 0.292 min

Lab File: VX032779.D

Acq: 11 Nov 2022 16:57

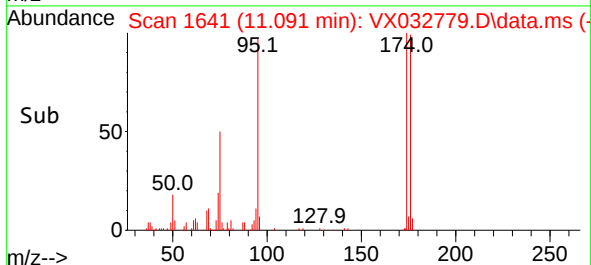
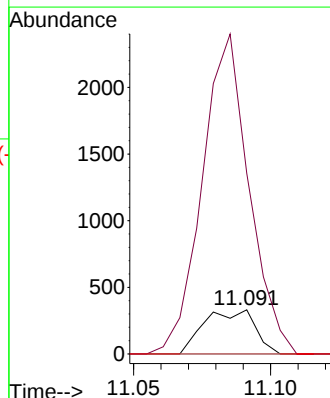
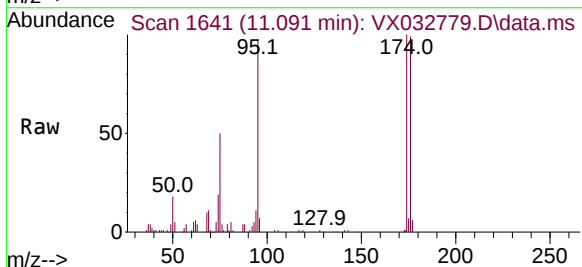
Tgt Ion:173 Resp: 428

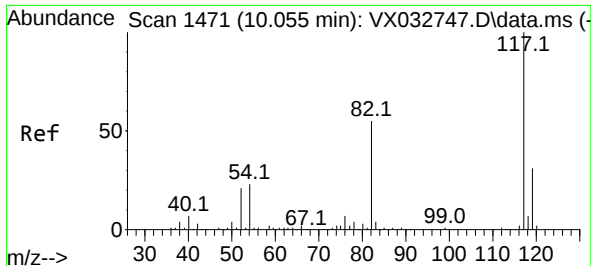
Ion Ratio Lower Upper

173 100

175 667.5 38.6 58.0#

254 0.0 6.8 10.2#





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. -0.000 min

Lab File: VX032779.D

Acq: 11 Nov 2022 16:57

Instrument :

MSVOA_X

ClientSampleId :

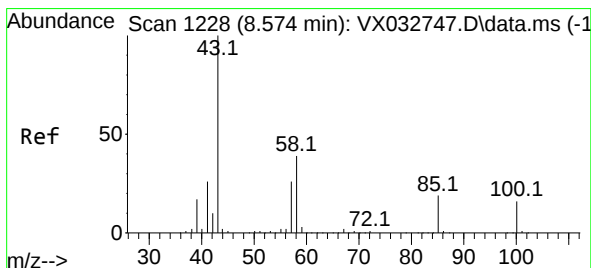
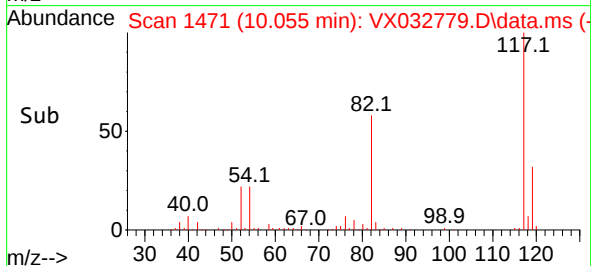
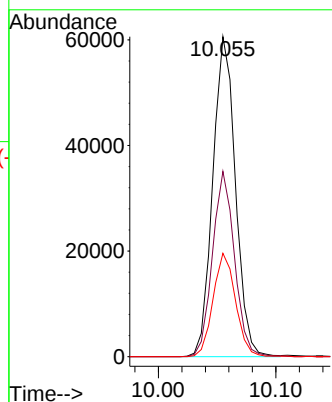
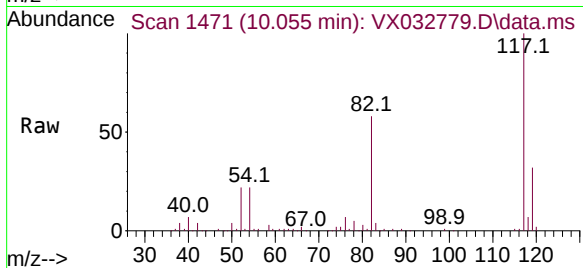
Tgt Ion:117 Resp: 81315

Ion Ratio Lower Upper

117 100

82 56.4 40.0 60.0

119 32.0 26.0 39.0



#58

4-Methyl-2-Pentanone

Concen: 9.327 ug/l

RT: 8.573 min Scan# 1228

Delta R.T. -0.000 min

Lab File: VX032779.D

Acq: 11 Nov 2022 16:57

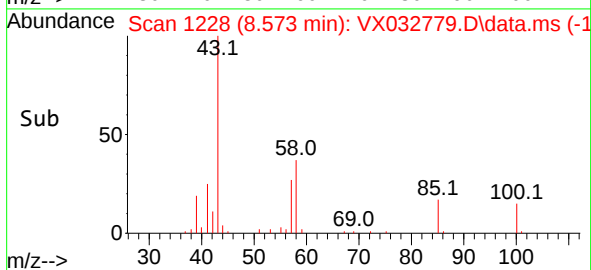
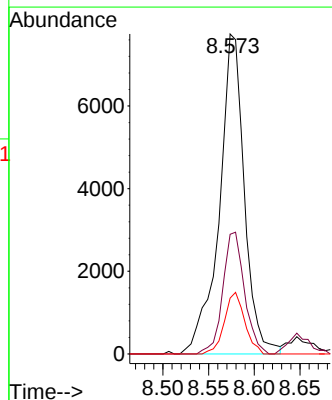
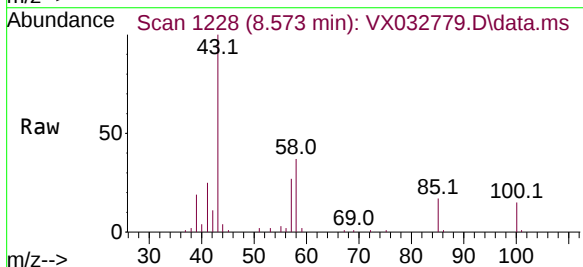
Tgt Ion: 43 Resp: 14847

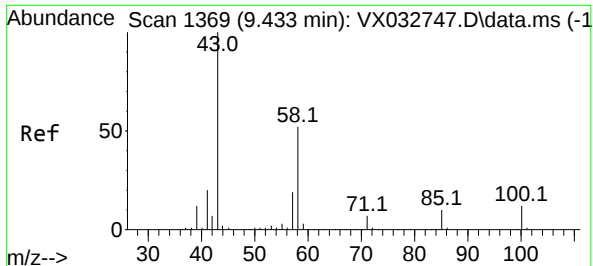
Ion Ratio Lower Upper

43 100

58 32.8 34.9 52.3#

85 15.6 19.4 29.2#





#59

2-Hexanone

Concen: 1.311 ug/l

RT: 9.439 min Scan# 1369

Delta R.T. 0.006 min

Lab File: VX032779.D

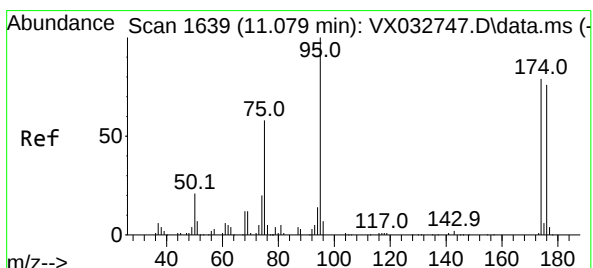
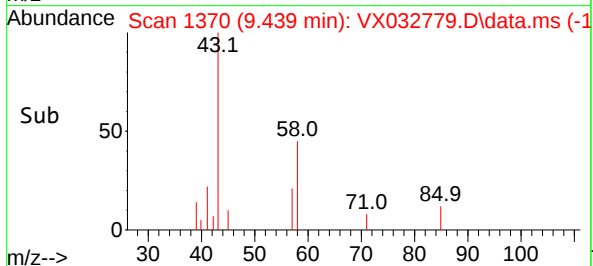
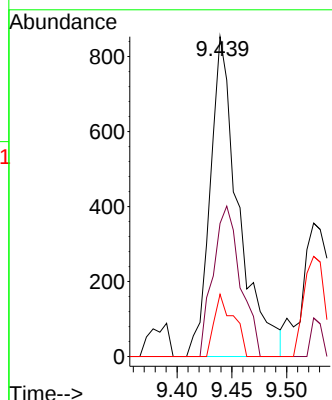
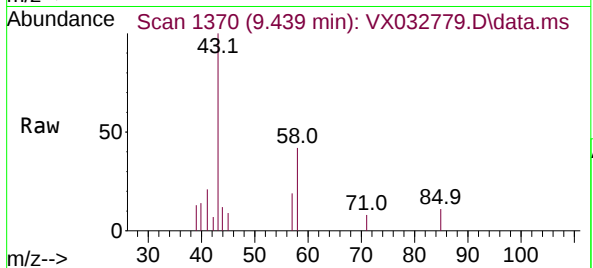
Acq: 11 Nov 2022 16:57

Instrument :

MSVOA_X

ClientSampleId :

Tgt Ion: 43	Resp: 1537
Ion Ratio	Lower Upper
43	100
58	45.3 49.0 73.6#
57	13.3 17.0 25.4#



#60

4-Bromofluorobenzene

Concen: 28.587 ug/l

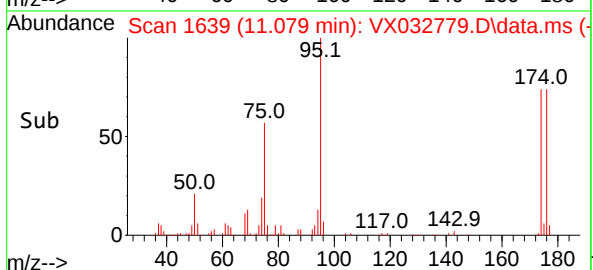
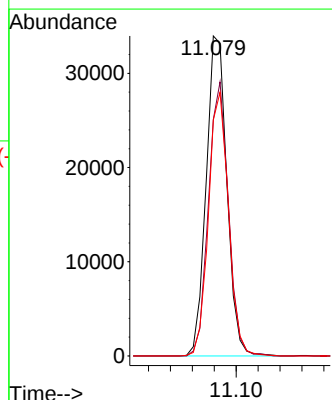
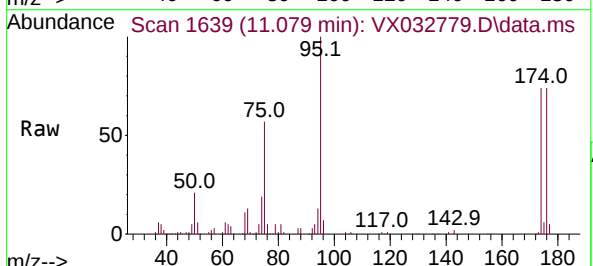
RT: 11.079 min Scan# 1639

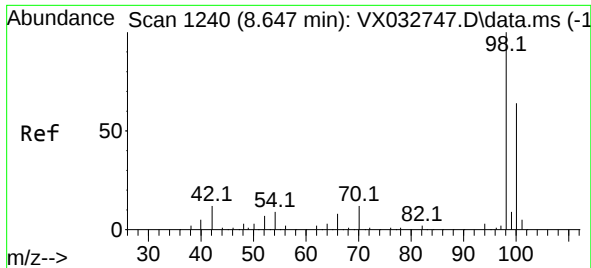
Delta R.T. -0.000 min

Lab File: VX032779.D

Acq: 11 Nov 2022 16:57

Tgt Ion: 95	Resp: 44466
Ion Ratio	Lower Upper
95	100
174	82.2 68.2 102.2
176	79.7 68.1 102.1

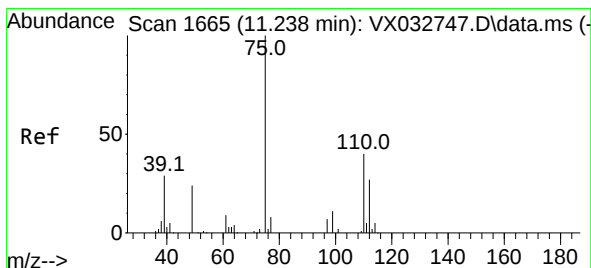
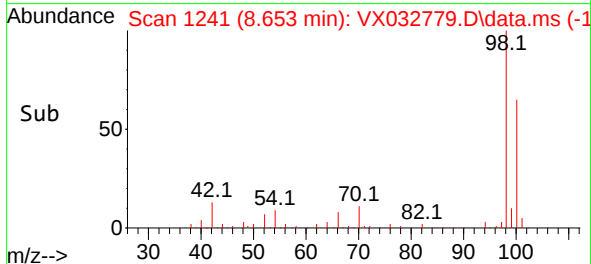
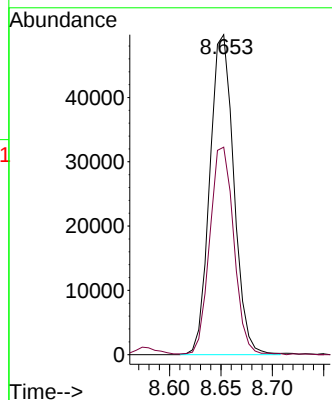
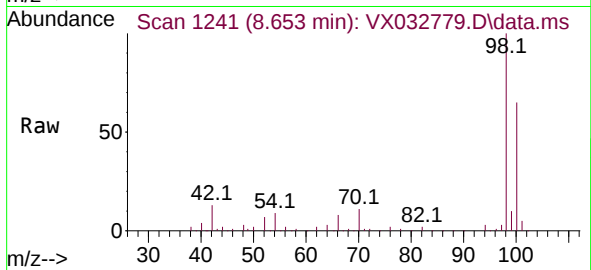




#63
Toluene-d8
Concen: 29.449 ug/l
RT: 8.653 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX032779.D
Acq: 11 Nov 2022 16:57

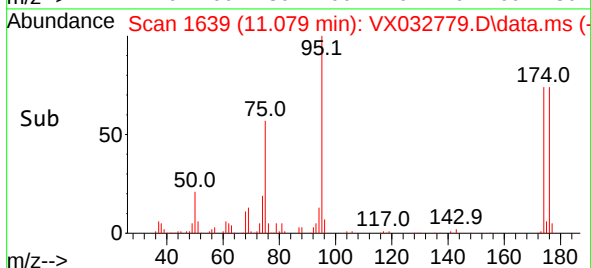
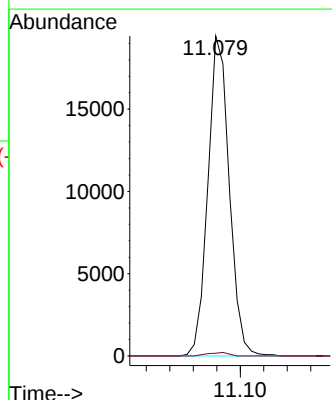
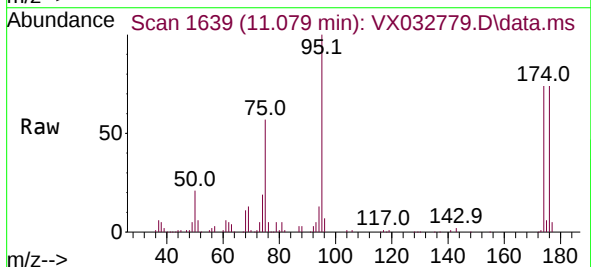
Instrument :
MSVOA_X
ClientSampleId :

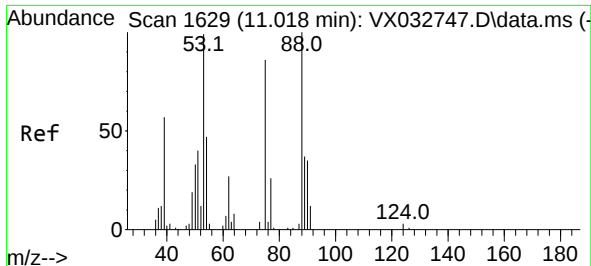
Tgt Ion: 98 Resp: 80815
Ion Ratio Lower Upper
98 100
100 65.0 53.8 80.8



#72
1,2,3-Trichloropropane
Concen: 15.413 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.159 min
Lab File: VX032779.D
Acq: 11 Nov 2022 16:57

Tgt Ion: 75 Resp: 24553
Ion Ratio Lower Upper
75 100
77 1.1 0.0 76.6

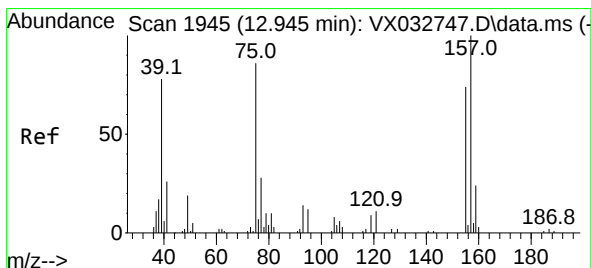
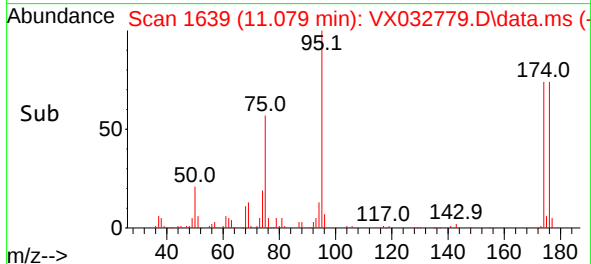
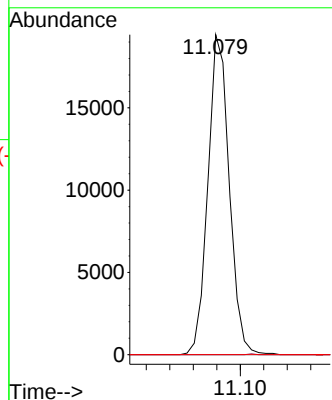
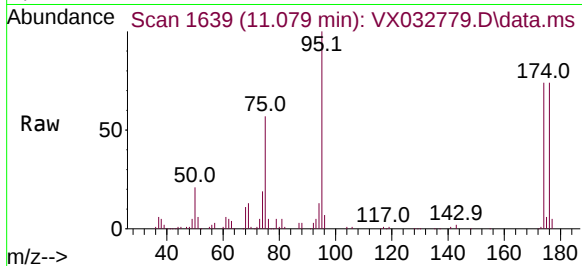




#77
t-1,4-Dichloro-2-butene
Concen: 50.508 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.061 min
Lab File: VX032779.D
Acq: 11 Nov 2022 16:57

Instrument :
MSVOA_X
ClientSampleId :

Tgt Ion: 75 Resp: 24553
Ion Ratio Lower Upper
75 100
53 0.0 51.8 155.4#
89 0.0 22.9 68.8#



#88
1,2-Dibromo-3-Chloropropane
Concen: 22.572 ug/l
RT: 12.871 min Scan# 1933
Delta R.T. -0.073 min
Lab File: VX032779.D
Acq: 11 Nov 2022 16:57

Tgt Ion: 75 Resp: 8784
Ion Ratio Lower Upper
75 100
155 0.0 85.0 127.6#
157 0.0 101.0 151.6#

