

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080824\
 Data File : VX042945.D
 Acq On : 08 Aug 2024 11:32
 Operator : JC/MD
 Sample : P3505-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Aug 08 14:51:45 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X080624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 07 04:53:59 2024
 Response via : Initial Calibration

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

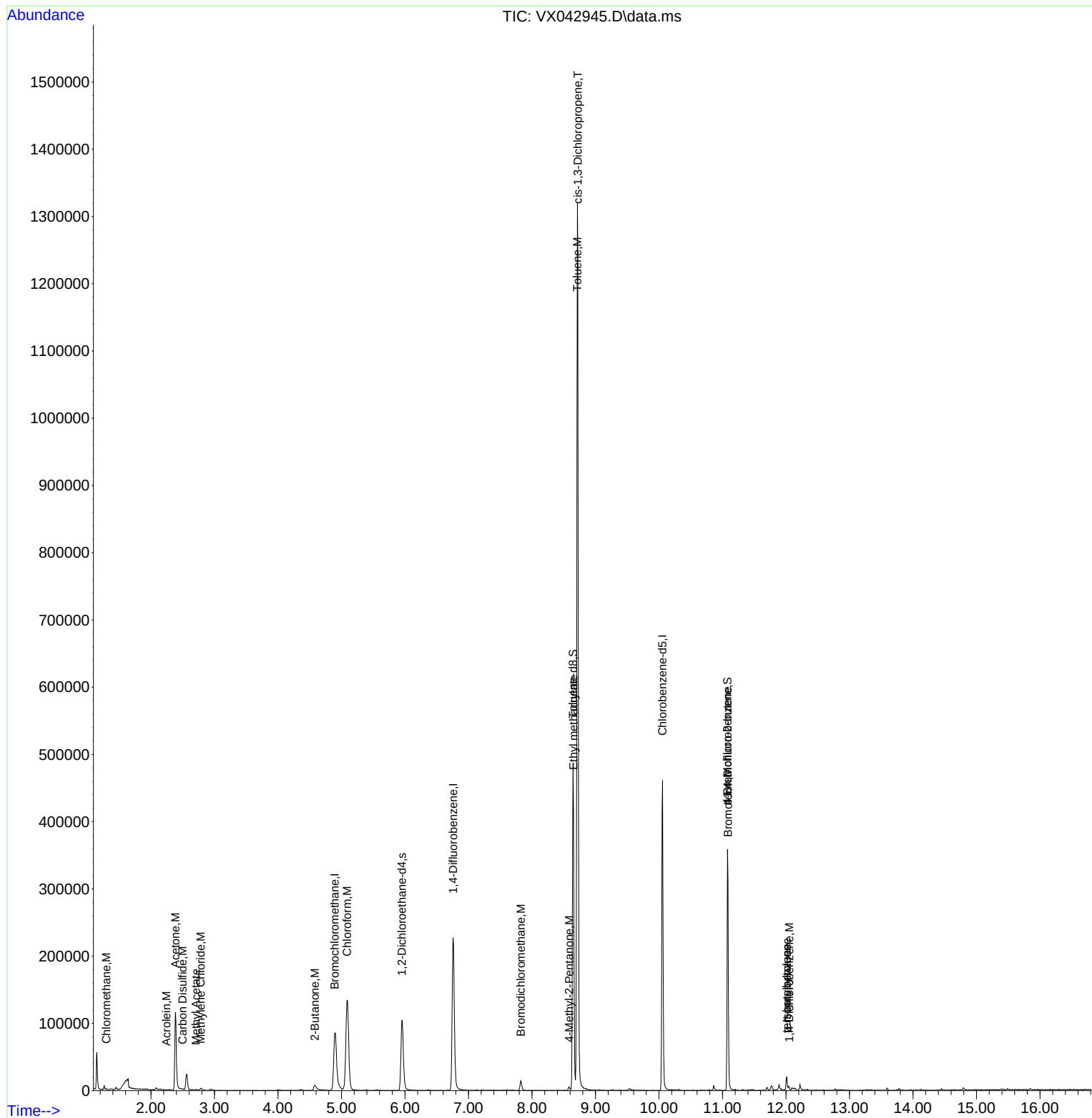
Internal Standards						
1) Bromochloromethane	4.891	128	42291	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	240439	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	217465	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	107533	27.536	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	91.800%
60) 4-Bromofluorobenzene	11.079	95	97218	27.402	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	91.333%
63) Toluene-d8	8.647	98	293296	29.858	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	99.533%
Target Compounds						
					Qvalue	
3) Chloromethane	1.295	50	1378	0.604	ug/l	93
12) Methyl Acetate	2.709	43	1572	0.284	ug/l #	90
13) Acrolein	2.240	56	240	1.500	ug/l #	35
15) Acetone	2.386	58	41228	75.617	ug/l	94
16) Carbon Disulfide	2.496	76	1426	0.271	ug/l #	75
18) Methylene Chloride	2.782	84	1695	0.577	ug/l #	86
25) Chloroform	5.087	83	170886	31.046	ug/l	97
30) 2-Butanone	4.581	43	15141	6.636	ug/l #	77
41) Bromodichloromethane	7.824	83	9635	2.545	ug/l #	96
49) cis-1,3-Dichloropropene	8.720	75	6115	1.556	ug/l #	1
51) Ethyl methacrylate	8.653	69	987	0.232	ug/l	90
56) Bromoform	11.085	173	943	0.434	ug/l #	1
58) 4-Methyl-2-Pentanone	8.586	43	3662	0.894	ug/l	96
62) Toluene	8.714	91	898112	84.321	ug/l	100
77) t-1,4-Dichloro-2-butene	11.079	75	48312	39.718	ug/l #	11
79) tert-butylbenzene	12.012	119	9011	0.892	ug/l	63
82) p-Isopropyltoluene	12.012	119	9011	0.869	ug/l	97
84) 1,4-Dichlorobenzene	12.049	146	1314	0.241	ug/l #	80

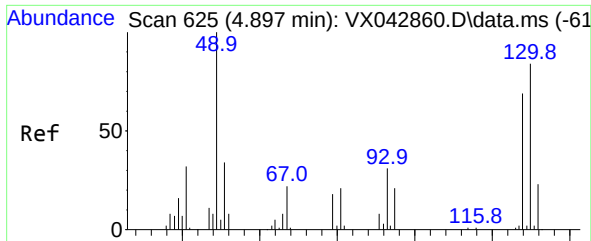
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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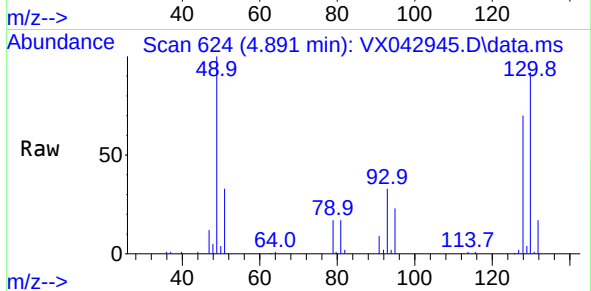
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X080624W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Aug 07 04:53:59 2024
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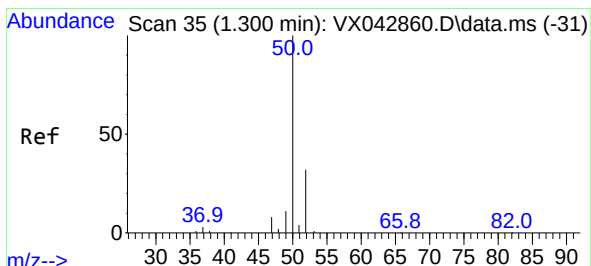
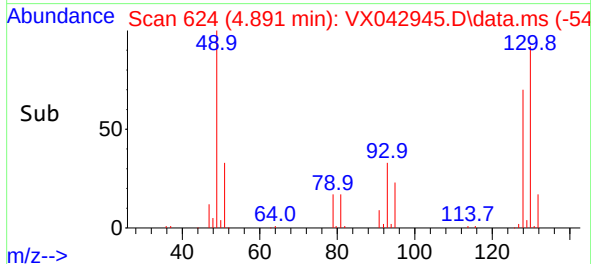
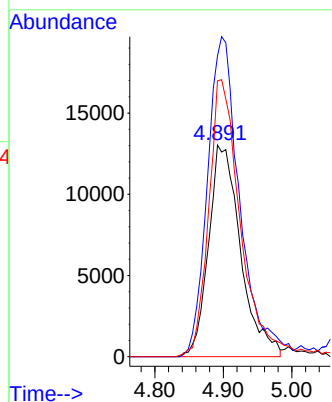


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.891 min Scan# 61
Delta R.T. -0.006 min
Lab File: VX042945.D
Acq: 08 Aug 2024 11:32

Instrument :
MSVOA_X
ClientSampleId :

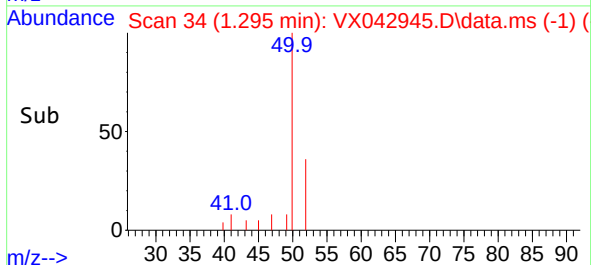
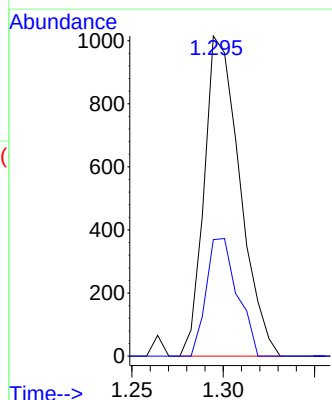
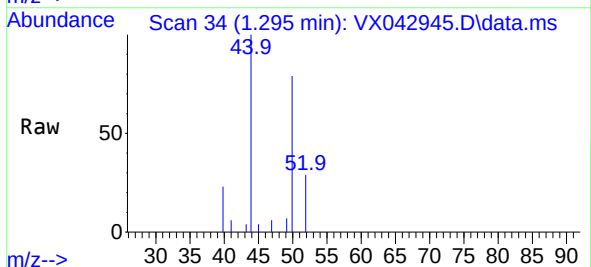


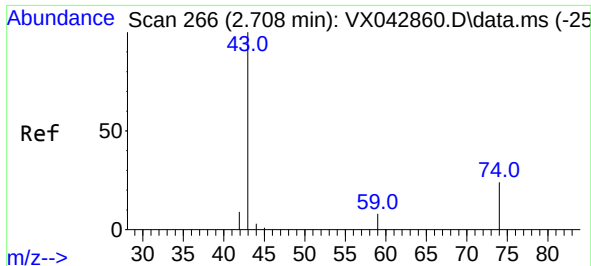
Tgt Ion:128 Resp: 42291
Ion Ratio Lower Upper
128 100
49 153.2 0.0 400.5
130 129.2 0.0 333.0



#3
Chloromethane
Concen: 0.604 ug/l
RT: 1.295 min Scan# 34
Delta R.T. -0.006 min
Lab File: VX042945.D
Acq: 08 Aug 2024 11:32

Tgt Ion: 50 Resp: 1378
Ion Ratio Lower Upper
50 100
52 36.4 26.0 39.0

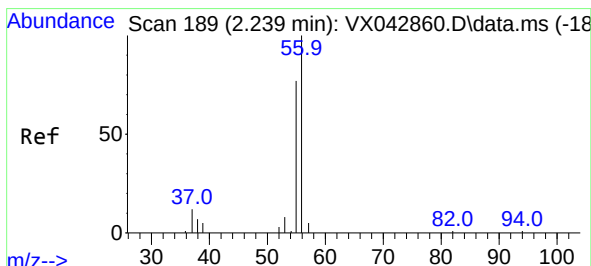
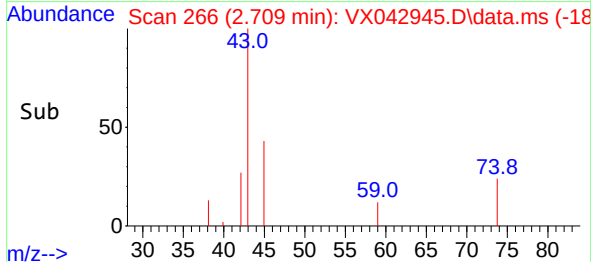
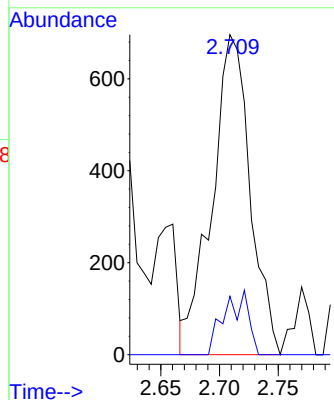
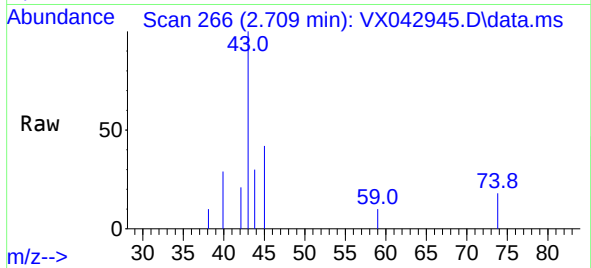




#12
Methyl Acetate
Concen: 0.284 ug/l
RT: 2.709 min Scan# 21
Delta R.T. 0.001 min
Lab File: VX042945.D
Acq: 08 Aug 2024 11:32

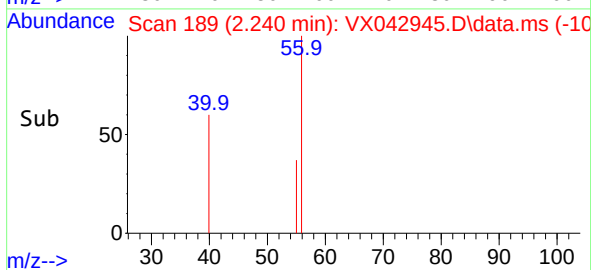
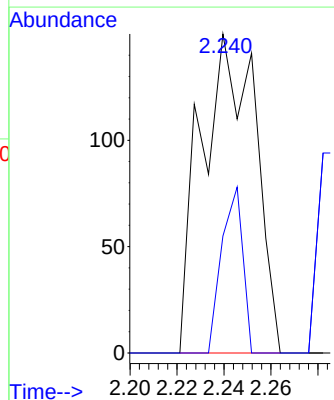
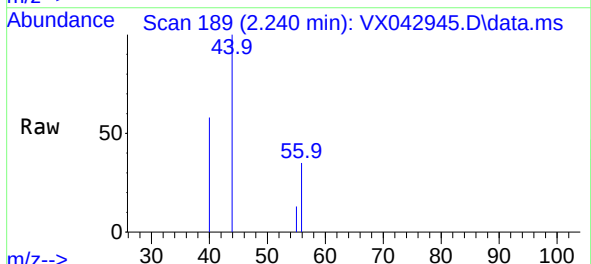
Instrument :
MSVOA_X
ClientSampleId :

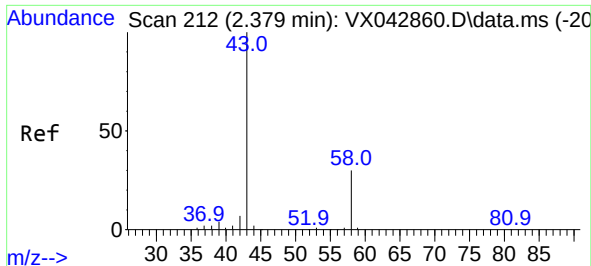
Tgt Ion: 43 Resp: 1572
Ion Ratio Lower Upper
43 100
74 19.3 19.4 29.2#



#13
Acrolein
Concen: 1.500 ug/l
RT: 2.240 min Scan# 189
Delta R.T. 0.001 min
Lab File: VX042945.D
Acq: 08 Aug 2024 11:32

Tgt Ion: 56 Resp: 240
Ion Ratio Lower Upper
56 100
55 20.4 60.6 90.8#

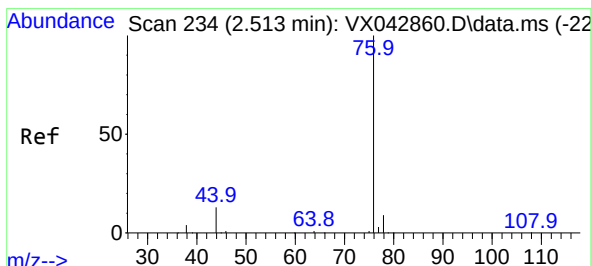
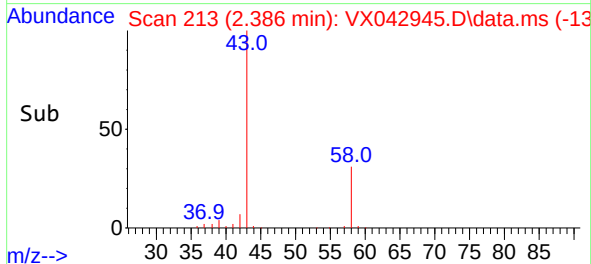
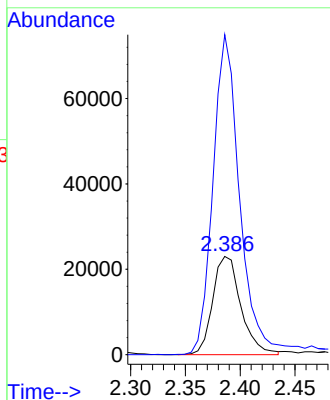
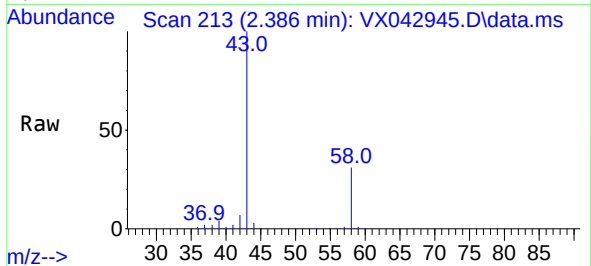




#15
Acetone
Concen: 75.617 ug/l
RT: 2.386 min Scan# 212
Delta R.T. 0.007 min
Lab File: VX042945.D
Acq: 08 Aug 2024 11:32

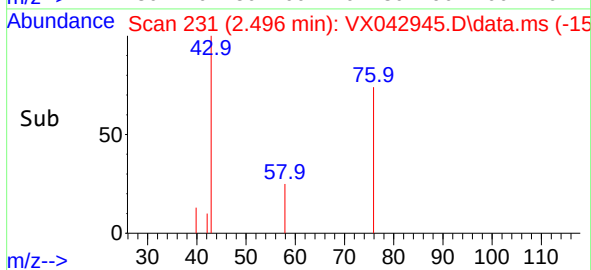
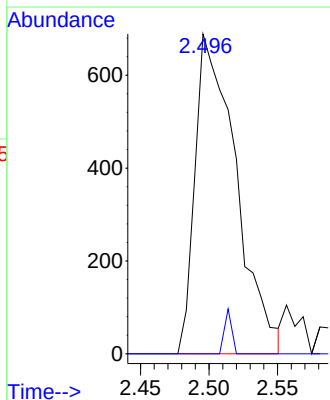
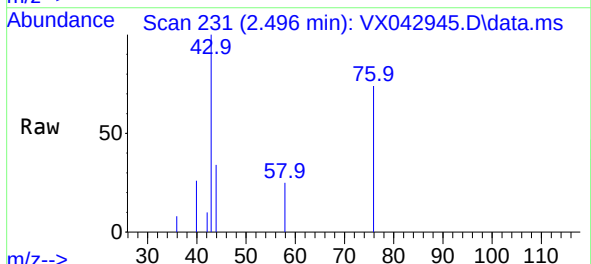
Instrument :
MSVOA_X
ClientSampleId :

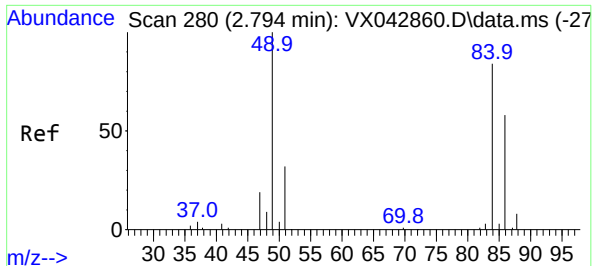
Tgt Ion: 58 Resp: 41228
Ion Ratio Lower Upper
58 100
43 325.1 269.9 404.9



#16
Carbon Disulfide
Concen: 0.271 ug/l
RT: 2.496 min Scan# 231
Delta R.T. -0.018 min
Lab File: VX042945.D
Acq: 08 Aug 2024 11:32

Tgt Ion: 76 Resp: 1426
Ion Ratio Lower Upper
76 100
78 0.0 7.1 10.7#

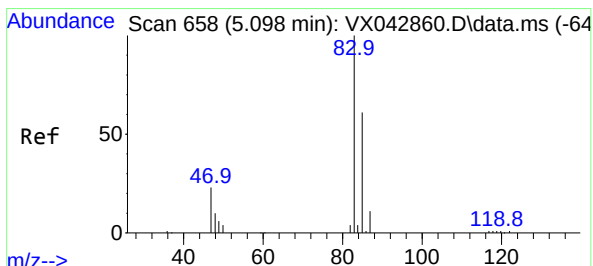
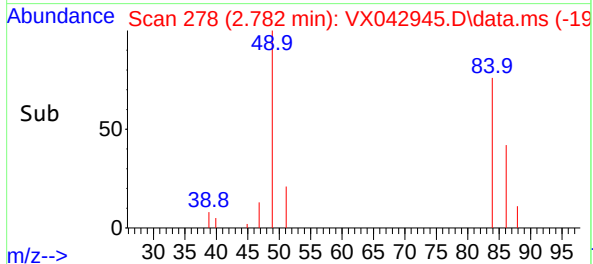
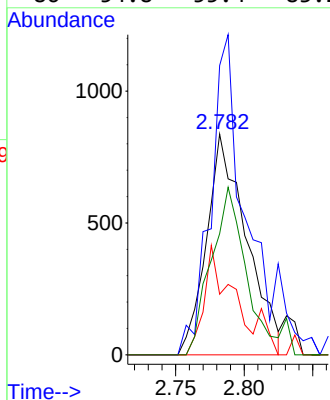
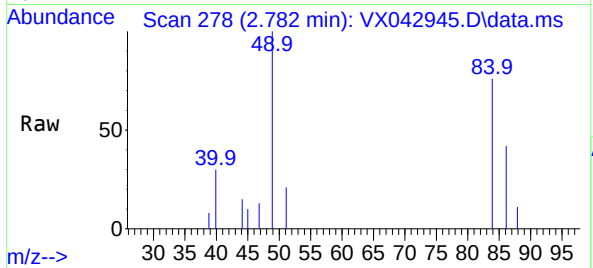




#18
Methylene Chloride
Concen: 0.577 ug/l
RT: 2.782 min Scan# 21
Delta R.T. -0.012 min
Lab File: VX042945.D
Acq: 08 Aug 2024 11:32

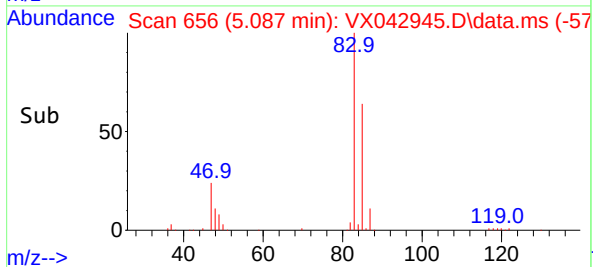
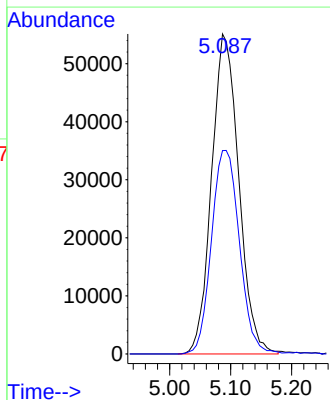
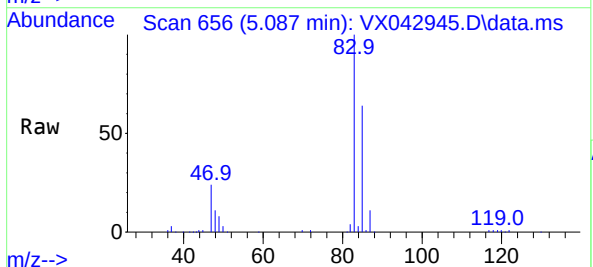
Instrument :
MSVOA_X
ClientSampleId :

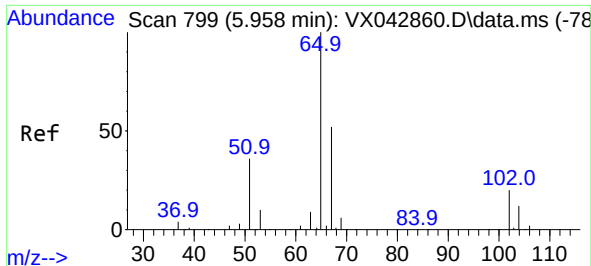
Tgt Ion: 84 Resp: 1695
Ion Ratio Lower Upper
84 100
49 131.1 95.0 142.6
51 27.5 30.1 45.1#
86 54.8 55.4 83.2#



#25
Chloroform
Concen: 31.046 ug/l
RT: 5.087 min Scan# 656
Delta R.T. -0.012 min
Lab File: VX042945.D
Acq: 08 Aug 2024 11:32

Tgt Ion: 83 Resp: 170886
Ion Ratio Lower Upper
83 100
85 63.6 49.2 73.8

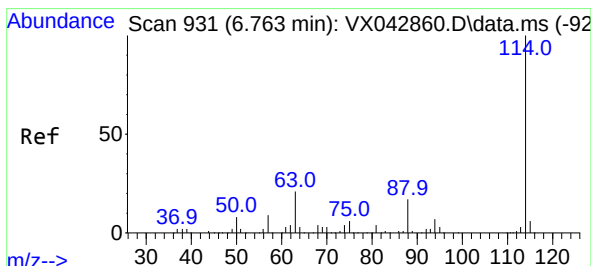
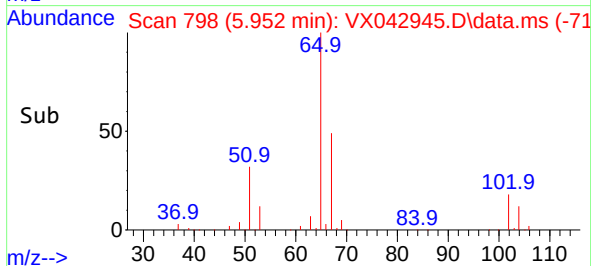
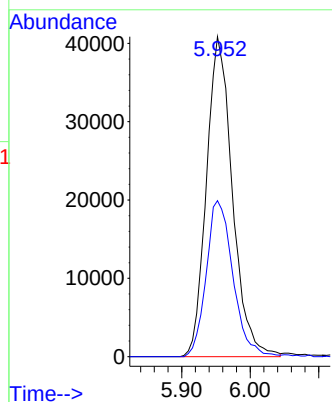
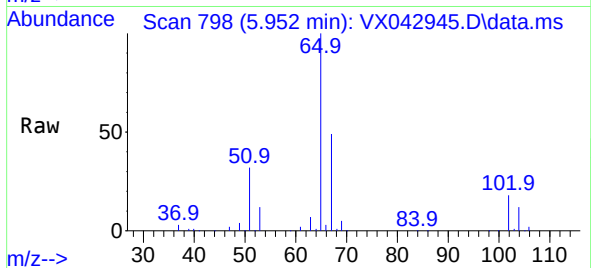




#27
1,2-Dichloroethane-d4
Concen: 27.536 ug/l
RT: 5.952 min Scan# 799
Delta R.T. -0.006 min
Lab File: VX042945.D
Acq: 08 Aug 2024 11:32

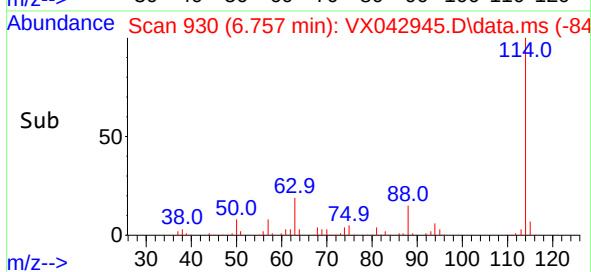
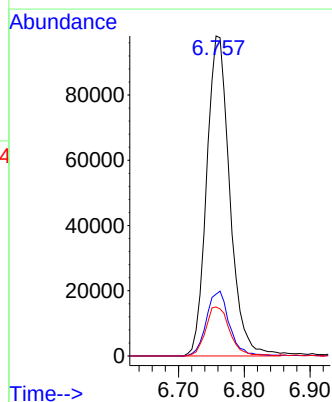
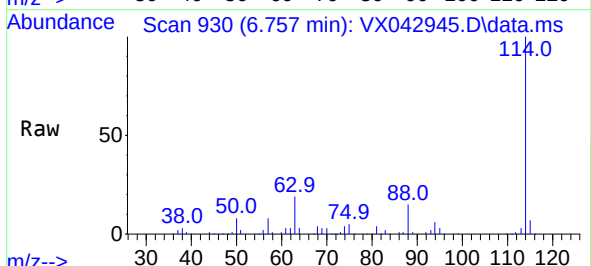
Instrument :
MSVOA_X
ClientSampleId :

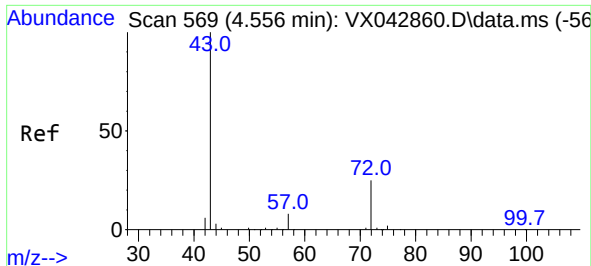
Tgt Ion: 65 Resp: 107533
Ion Ratio Lower Upper
65 100
67 50.1 40.6 60.8



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.006 min
Lab File: VX042945.D
Acq: 08 Aug 2024 11:32

Tgt Ion: 114 Resp: 240439
Ion Ratio Lower Upper
114 100
63 20.0 16.0 24.0
88 15.7 12.5 18.7

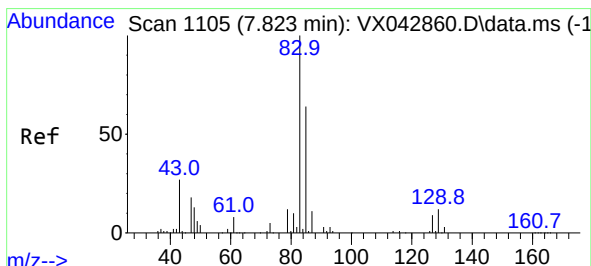
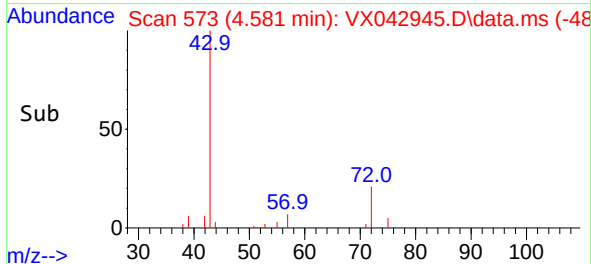
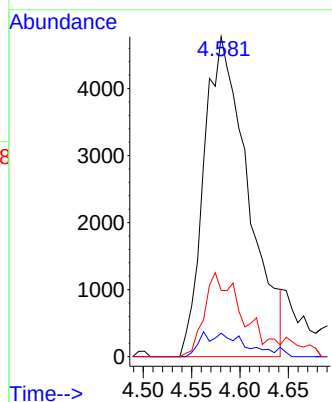
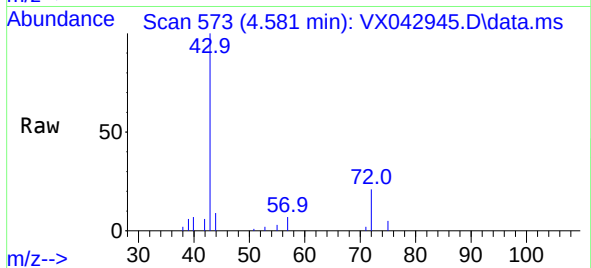




#30
2-Butanone
Concen: 6.636 ug/l
RT: 4.581 min Scan# 51
Delta R.T. 0.025 min
Lab File: VX042945.D
Acq: 08 Aug 2024 11:32

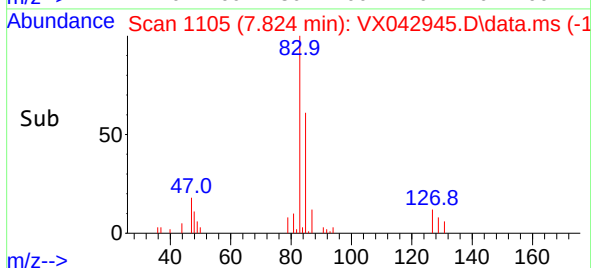
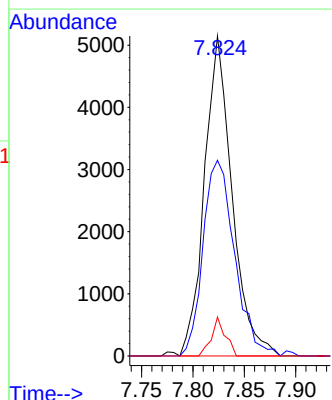
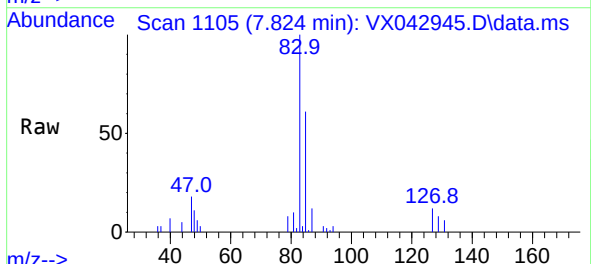
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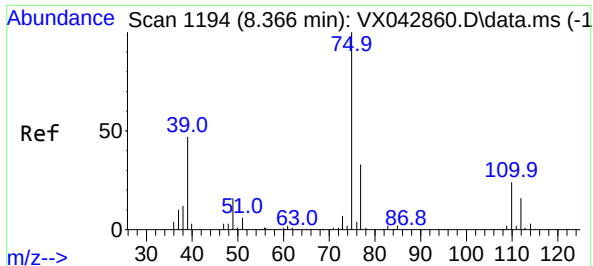
Tgt Ion: 43 Resp: 15141
Ion Ratio Lower Upper
43 100
57 2.8 6.6 10.0#
72 13.0 21.0 31.4#



#41
Bromodichloromethane
Concen: 2.545 ug/l
RT: 7.824 min Scan# 1105
Delta R.T. 0.000 min
Lab File: VX042945.D
Acq: 08 Aug 2024 11:32

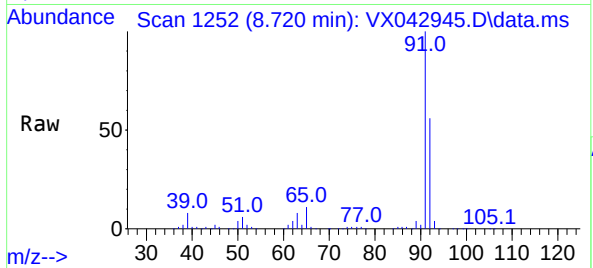
Tgt Ion: 83 Resp: 9635
Ion Ratio Lower Upper
83 100
85 61.1 50.8 76.2
127 12.1 6.9 10.3#



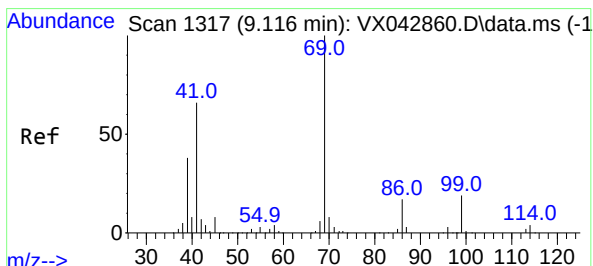
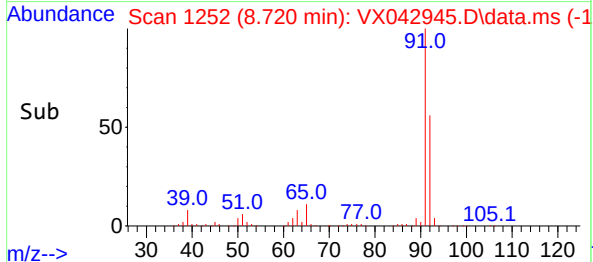
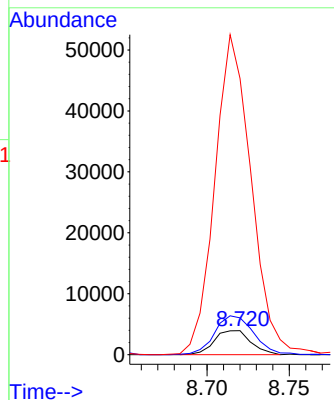


#49
cis-1,3-Dichloropropene
Concen: 1.556 ug/l
RT: 8.720 min Scan# 1194
Delta R.T. 0.354 min
Lab File: VX042945.D
Acq: 08 Aug 2024 11:32

Instrument :
MSVOA_X
ClientSampleId :

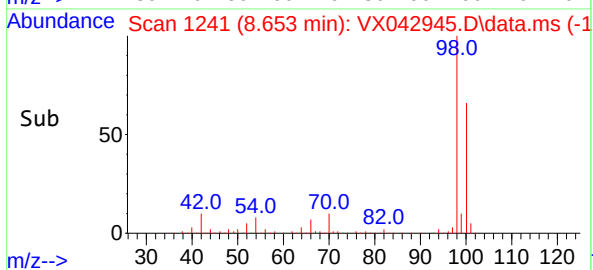
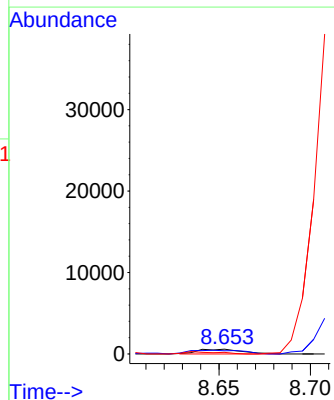
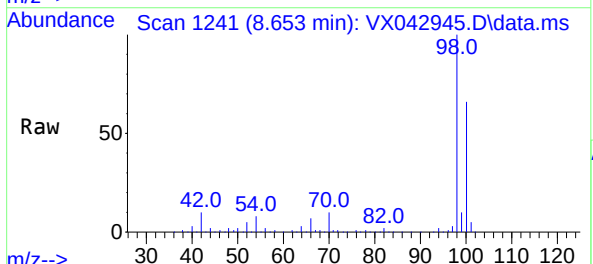


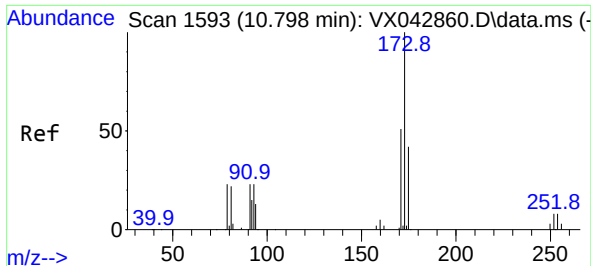
Tgt Ion: 75 Resp: 6115
Ion Ratio Lower Upper
75 100
77 151.5 26.8 40.2#
39 1149.7 37.5 56.3#



#51
Ethyl methacrylate
Concen: 0.232 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. -0.463 min
Lab File: VX042945.D
Acq: 08 Aug 2024 11:32

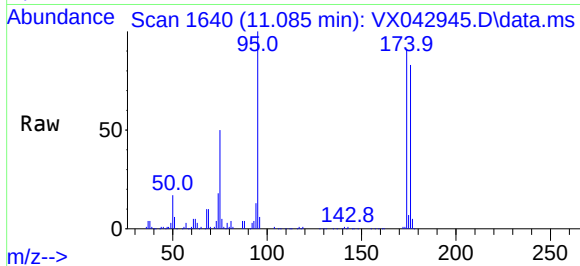
Tgt Ion: 69 Resp: 987
Ion Ratio Lower Upper
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41 66.3 33.1 99.2
39 20.9 18.8 56.3



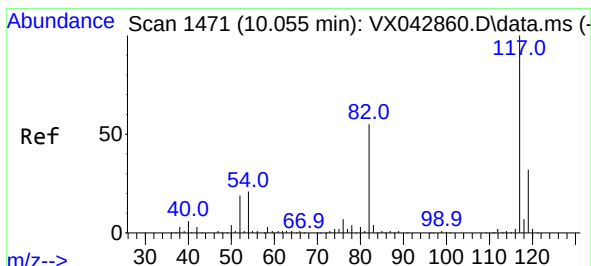
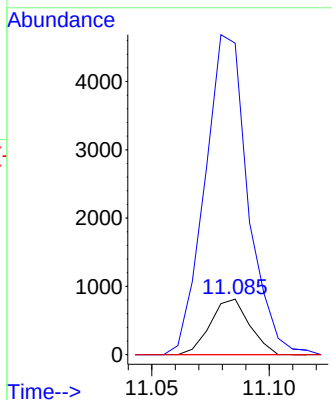
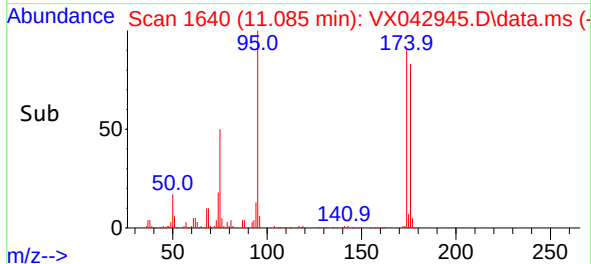


#56
Bromoform
Concen: 0.434 ug/l
RT: 11.085 min Scan# 11
Delta R.T. 0.287 min
Lab File: VX042945.D
Acq: 08 Aug 2024 11:32

Instrument :
MSVOA_X
ClientSampleId :

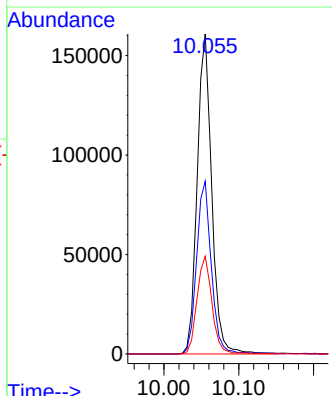
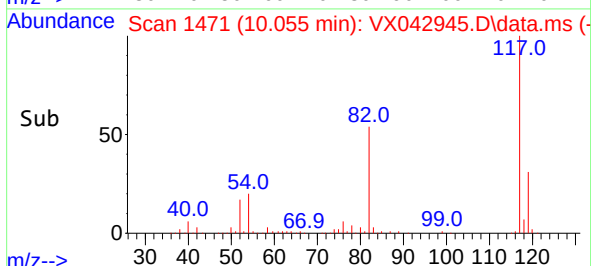
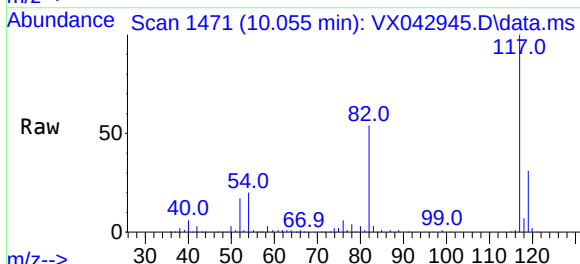


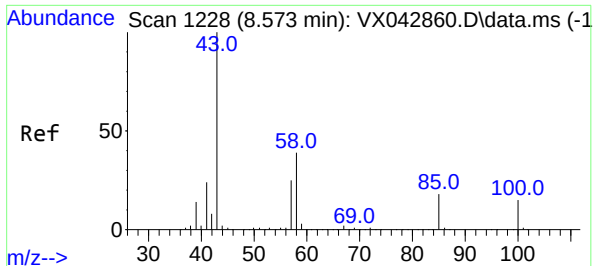
Tgt Ion:173 Resp: 943
Ion Ratio Lower Upper
173 100
175 636.7 37.1 55.7#
254 0.0 6.6 10.0#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.001 min
Lab File: VX042945.D
Acq: 08 Aug 2024 11:32

Tgt Ion:117 Resp: 217465
Ion Ratio Lower Upper
117 100
82 54.2 44.9 67.3
119 31.1 25.4 38.2





#58

4-Methyl-2-Pentanone

Concen: 0.894 ug/l

RT: 8.586 min Scan# 11

Delta R.T. 0.013 min

Lab File: VX042945.D

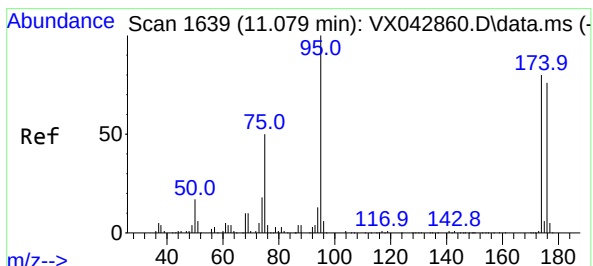
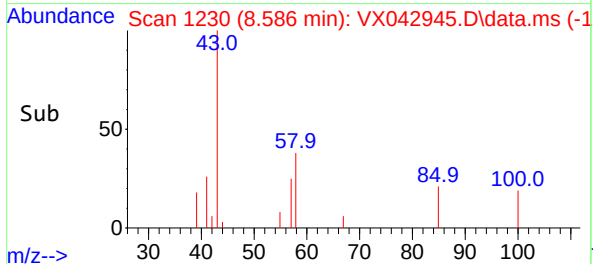
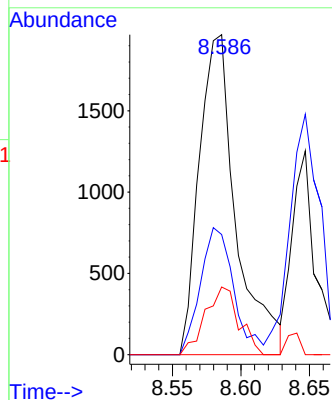
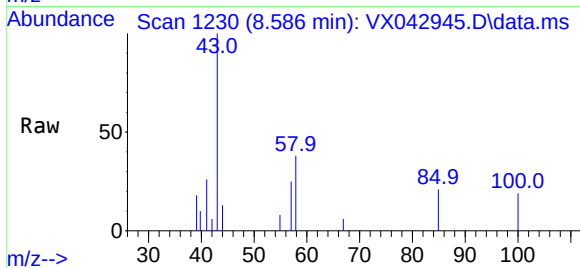
Acq: 08 Aug 2024 11:32

Instrument :

MSVOA_X

ClientSampleId :

Tgt Ion:	43	Resp:	3662
Ion	Ratio	Lower	Upper
43	100		
58	36.2	31.4	47.0
85	19.4	14.6	21.8



#60

4-Bromofluorobenzene

Concen: 27.402 ug/l

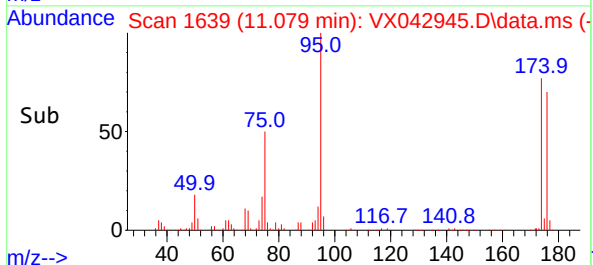
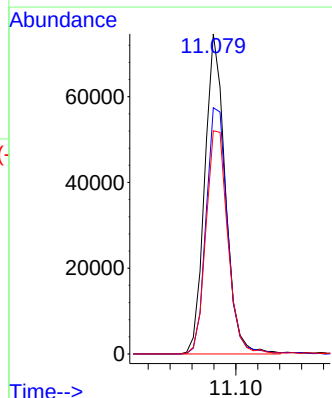
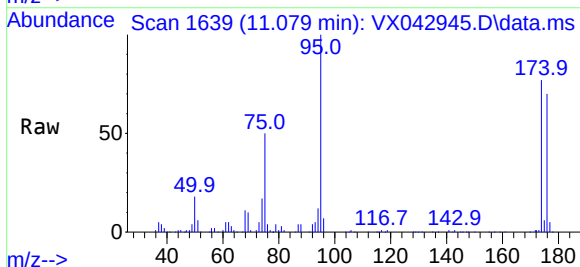
RT: 11.079 min Scan# 1639

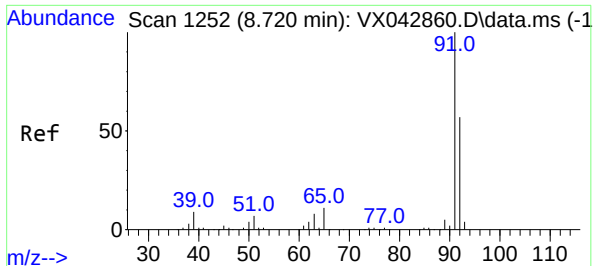
Delta R.T. 0.000 min

Lab File: VX042945.D

Acq: 08 Aug 2024 11:32

Tgt Ion:	95	Resp:	97218
Ion	Ratio	Lower	Upper
95	100		
174	80.0	65.0	97.6
176	74.3	63.4	95.0

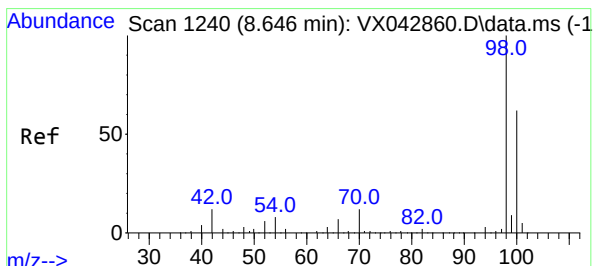
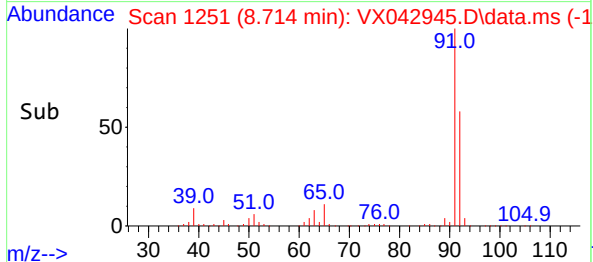
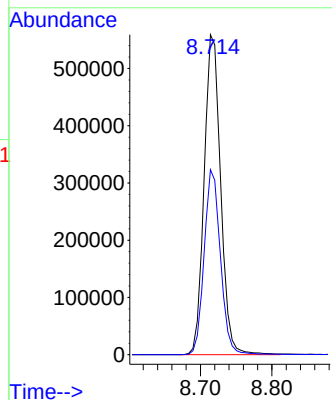
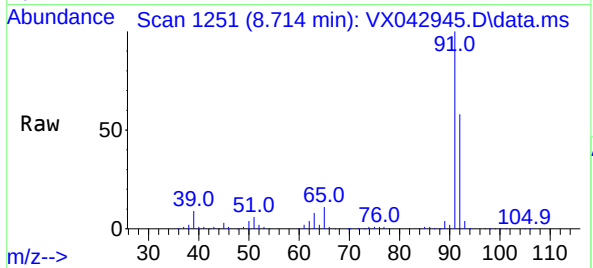




#62
Toluene
Concen: 84.321 ug/l
RT: 8.714 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX042945.D
Acq: 08 Aug 2024 11:32

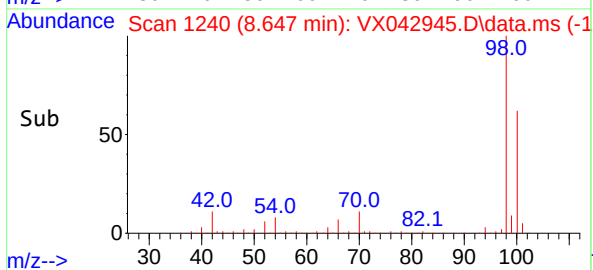
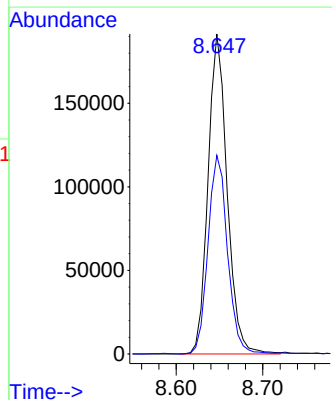
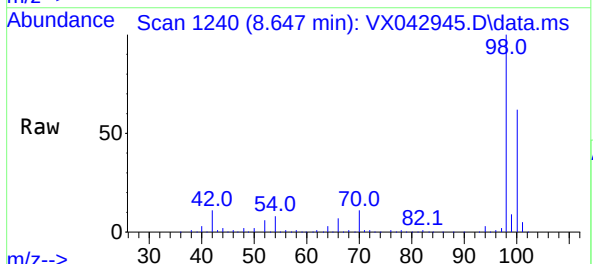
Instrument :
MSVOA_X
ClientSampleId :

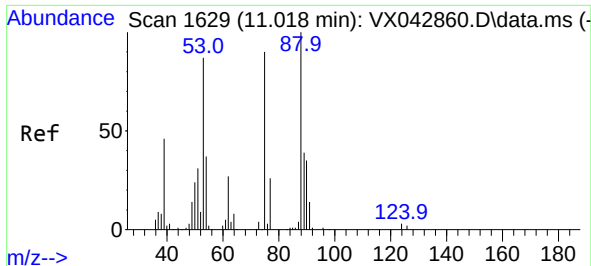
Tgt Ion: 91 Resp: 898112
Ion Ratio Lower Upper
91 100
92 56.9 45.7 68.5



#63
Toluene-d8
Concen: 29.858 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.001 min
Lab File: VX042945.D
Acq: 08 Aug 2024 11:32

Tgt Ion: 98 Resp: 293296
Ion Ratio Lower Upper
98 100
100 63.1 50.9 76.3

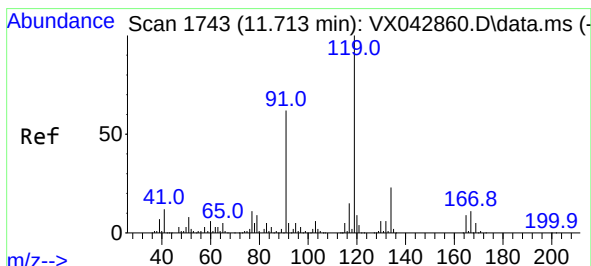
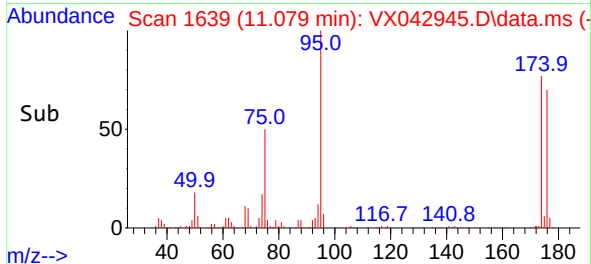
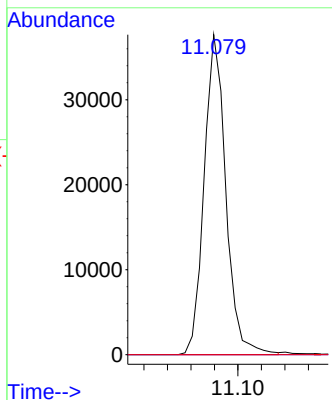
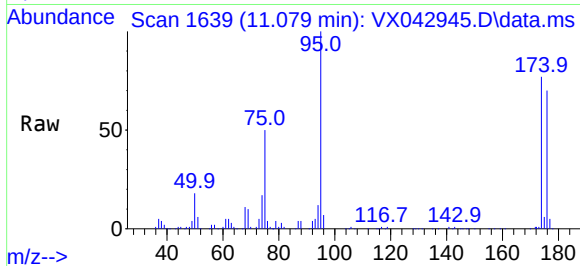




#77
t-1,4-Dichloro-2-butene
Concen: 39.718 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.061 min
Lab File: VX042945.D
Acq: 08 Aug 2024 11:32

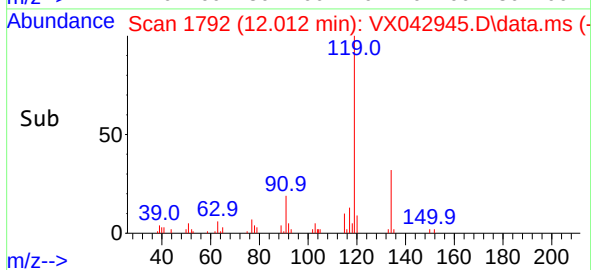
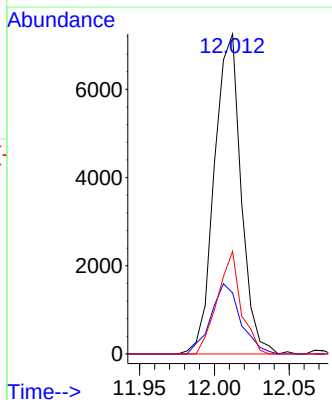
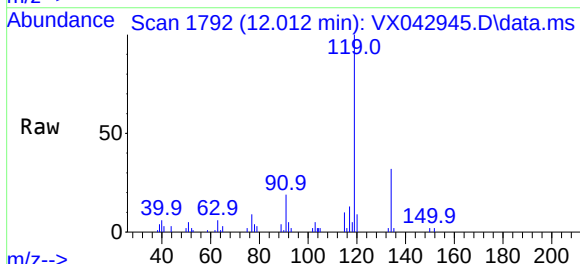
Instrument :
MSVOA_X
ClientSampleId :

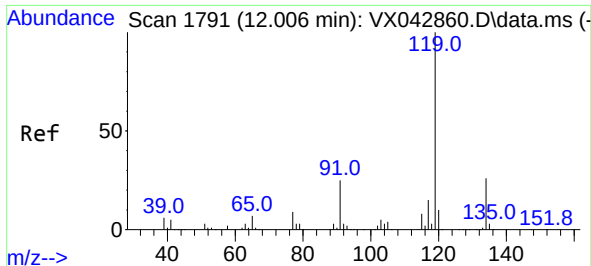
Tgt Ion: 75 Resp: 48312
Ion Ratio Lower Upper
75 100
53 0.0 48.5 145.5#
89 0.0 21.9 65.5#



#79
tert-butylbenzene
Concen: 0.892 ug/l
RT: 12.012 min Scan# 1792
Delta R.T. 0.299 min
Lab File: VX042945.D
Acq: 08 Aug 2024 11:32

Tgt Ion: 119 Resp: 9011
Ion Ratio Lower Upper
119 100
91 24.4 0.0 118.6
134 28.4 0.0 44.4

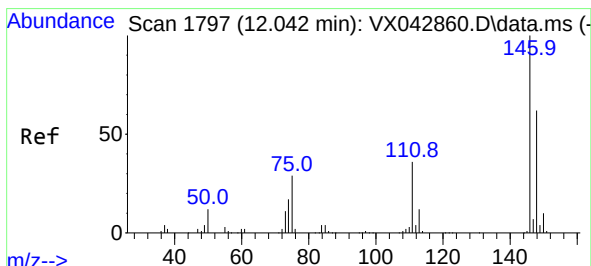
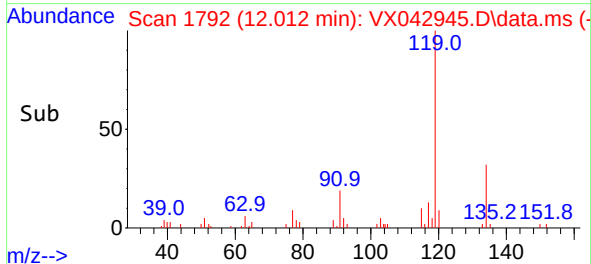
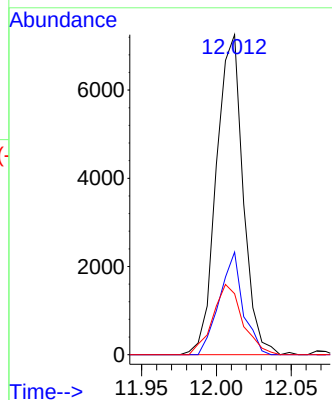
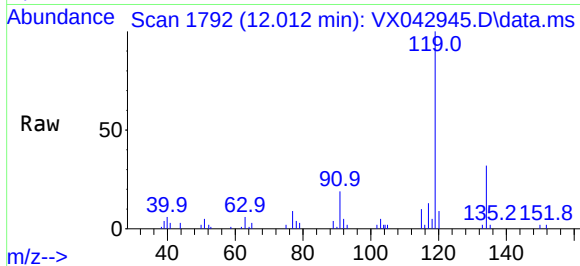




#82
p-Isopropyltoluene
Concen: 0.869 ug/l
RT: 12.012 min Scan# 1791
Delta R.T. 0.007 min
Lab File: VX042945.D
Acq: 08 Aug 2024 11:32

Instrument :
MSVOA_X
ClientSampleId :

Tgt Ion:119 Resp: 9011
Ion Ratio Lower Upper
119 100
134 28.4 0.0 51.8
91 24.4 0.0 48.4



#84
1,4-Dichlorobenzene
Concen: 0.241 ug/l
RT: 12.049 min Scan# 1798
Delta R.T. 0.007 min
Lab File: VX042945.D
Acq: 08 Aug 2024 11:32

Tgt Ion:146 Resp: 1314
Ion Ratio Lower Upper
146 100
111 11.7 19.4 58.4#
148 66.8 31.4 94.2

