

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072823\
 Data File : VX036703.D
 Acq On : 28 Jul 2023 13:40
 Operator : JC/MD
 Sample : 03790-02DL 10X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 002-35TH-AVE-(JUNE)DL

Quant Time: Jul 28 16:17:47 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X071423W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 14 04:32:22 2023
 Response via : Initial Calibration

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

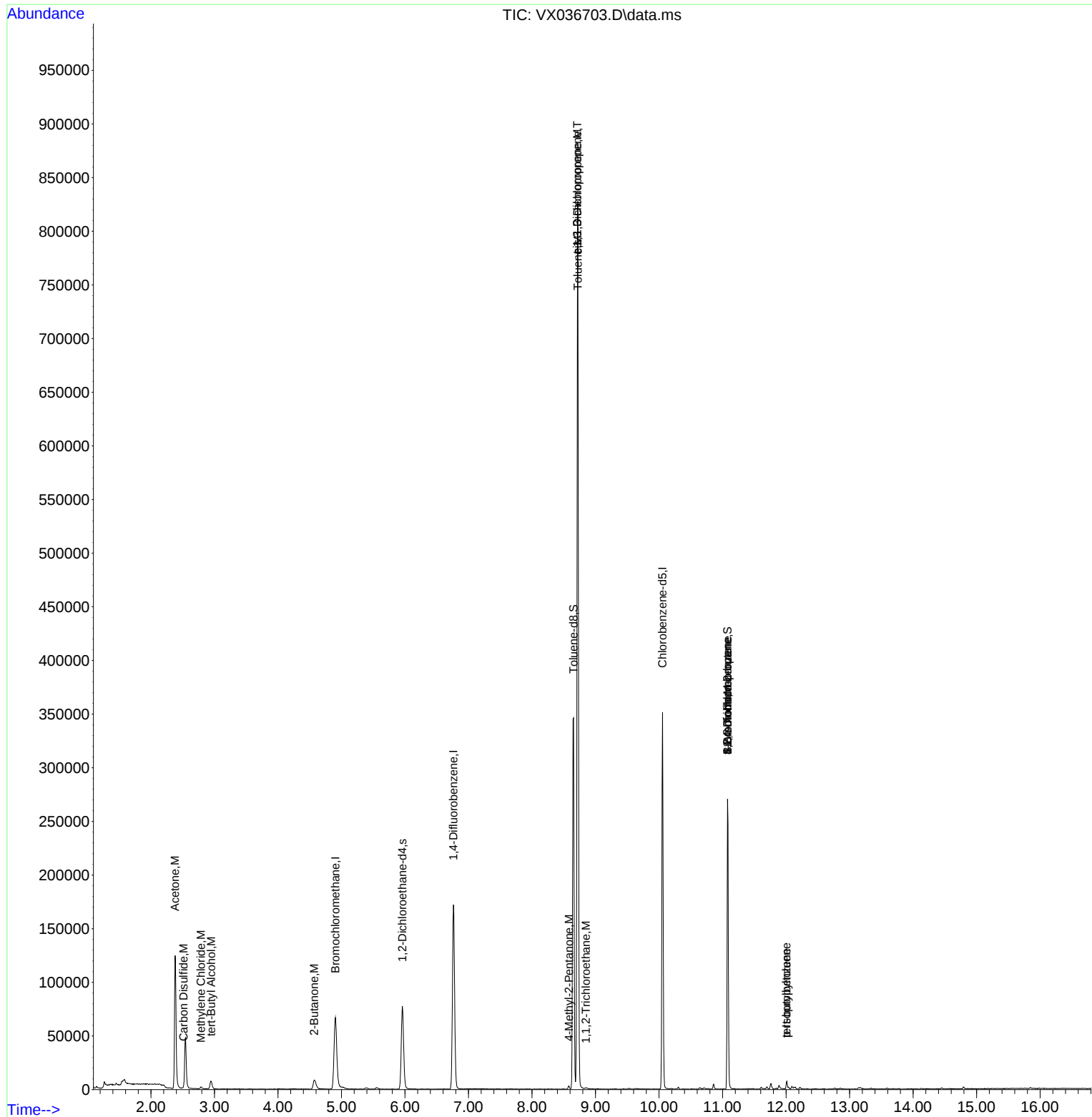
Internal Standards						
1) Bromochloromethane	4.904	128	29309	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	175446	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	152822	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	73202	30.093	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	100.300%
60) 4-Bromofluorobenzene	11.079	95	73262	29.554	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	98.500%
63) Toluene-d8	8.653	98	210688	29.960	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	99.867%
Target Compounds						
					Qvalue	
15) Acetone	2.380	58	42316	132.265	ug/l	93
16) Carbon Disulfide	2.514	76	956	0.230	ug/l	97
18) Methylene Chloride	2.788	84	934	0.452	ug/l #	85
23) tert-Butyl Alcohol	2.947	59	4663	8.886	ug/l #	1
30) 2-Butanone	4.568	43	8904	5.345	ug/l #	83
48) t-1,3-Dichloropropene	8.714	75	3537	1.110	ug/l #	1
49) cis-1,3-Dichloropropene	8.714	75	3537	1.027	ug/l #	1
50) 1,1,2-Trichloroethane	8.848	97	444	0.204	ug/l #	14
56) Bromoform	11.079	173	492	0.322	ug/l #	1
58) 4-Methyl-2-Pentanone	8.580	43	1960	0.620	ug/l	96
62) Toluene	8.720	91	527890	61.565	ug/l	97
72) 1,2,3-Trichloropropane	11.079	75	38399	12.643	ug/l	38
77) t-1,4-Dichloro-2-butene	11.079	75	38399	38.500	ug/l #	7
79) tert-butylbenzene	12.006	119	3094	0.422	ug/l	68
82) p-Isopropyltoluene	12.006	119	3094	0.403	ug/l	94

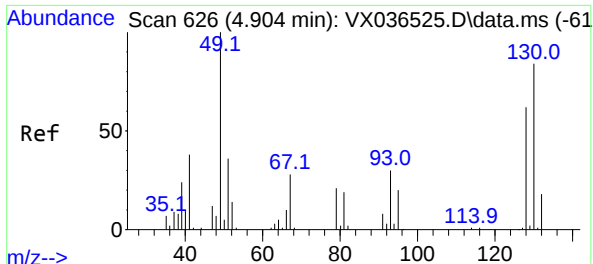
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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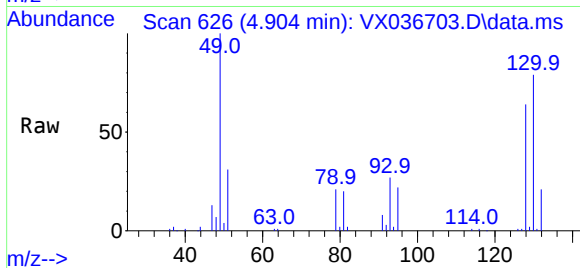
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X071423W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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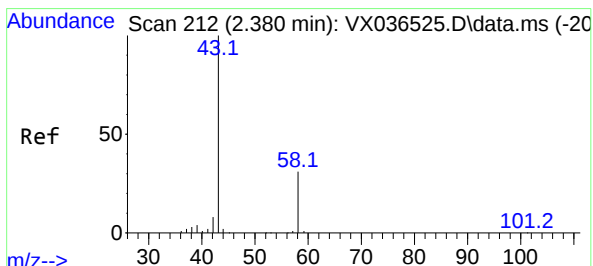
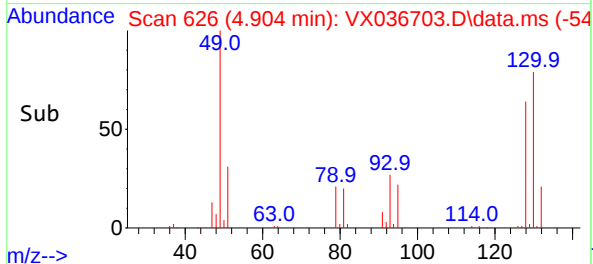
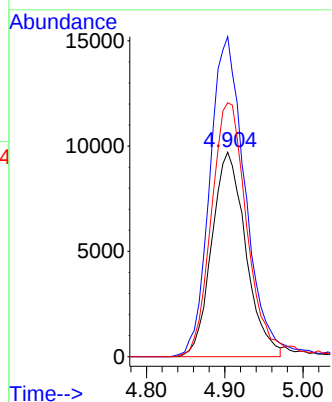


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.904 min Scan# 61
Delta R.T. -0.000 min
Lab File: VX036703.D
Acq: 28 Jul 2023 13:40

Instrument :
MSVOA_X
ClientSampleId :
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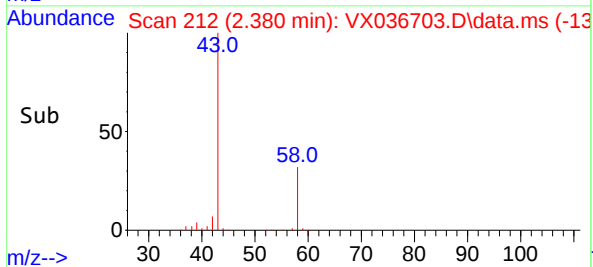
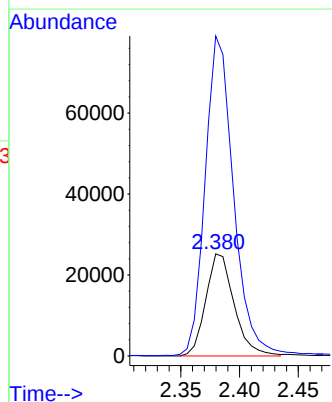
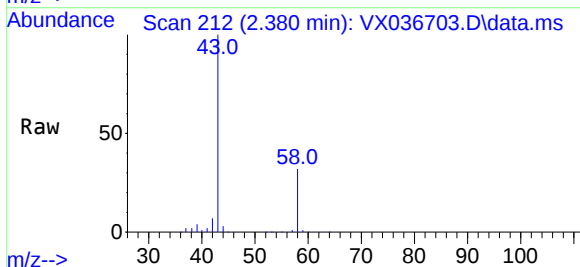


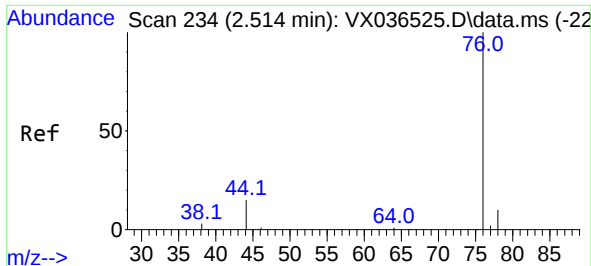
Tgt Ion:128 Resp: 29309
Ion Ratio Lower Upper
128 100
49 164.6 0.0 406.3
130 129.2 0.0 328.0



#15
Acetone
Concen: 132.265 ug/l
RT: 2.380 min Scan# 212
Delta R.T. 0.000 min
Lab File: VX036703.D
Acq: 28 Jul 2023 13:40

Tgt Ion: 58 Resp: 42316
Ion Ratio Lower Upper
58 100
43 311.8 261.0 391.4

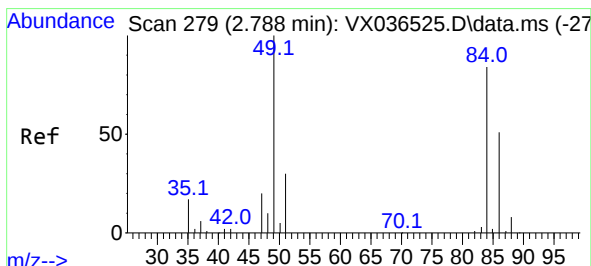
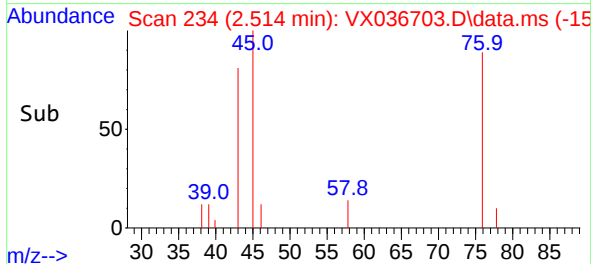
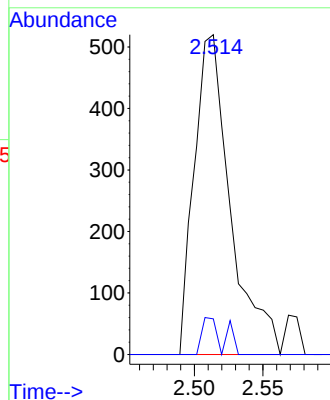
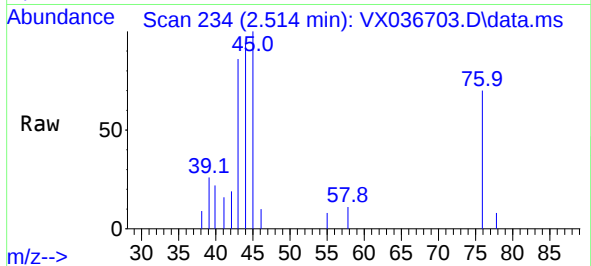




#16
Carbon Disulfide
Concen: 0.230 ug/l
RT: 2.514 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX036703.D
Acq: 28 Jul 2023 13:40

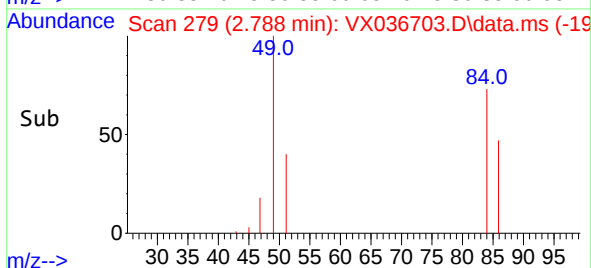
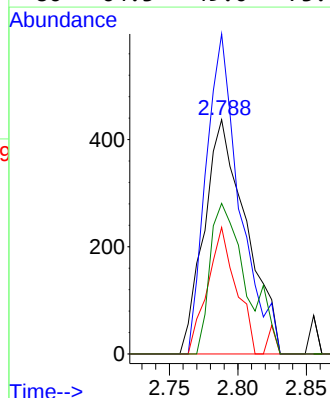
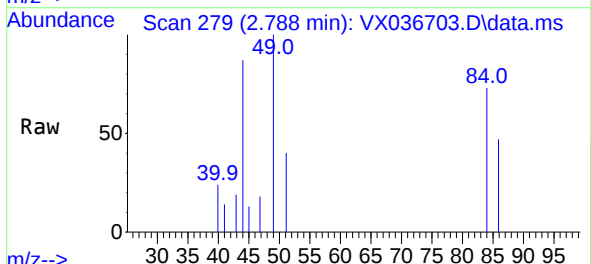
Instrument :
MSVOA_X
ClientSampleId :
002-35TH-AVE-(JUNE)DL

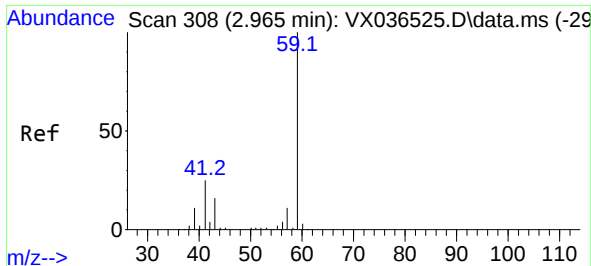
Tgt Ion: 76 Resp: 956
Ion Ratio Lower Upper
76 100
78 11.2 8.0 12.0



#18
Methylene Chloride
Concen: 0.452 ug/l
RT: 2.788 min Scan# 279
Delta R.T. 0.000 min
Lab File: VX036703.D
Acq: 28 Jul 2023 13:40

Tgt Ion: 84 Resp: 934
Ion Ratio Lower Upper
84 100
49 136.6 95.4 143.0
51 54.0 28.3 42.5#
86 64.3 49.0 73.6

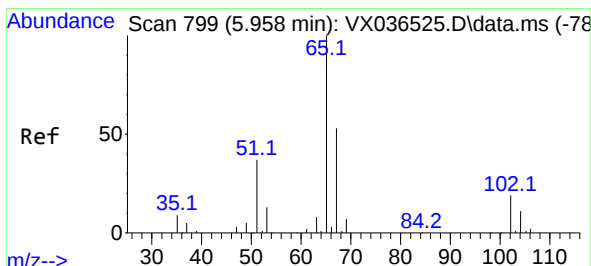
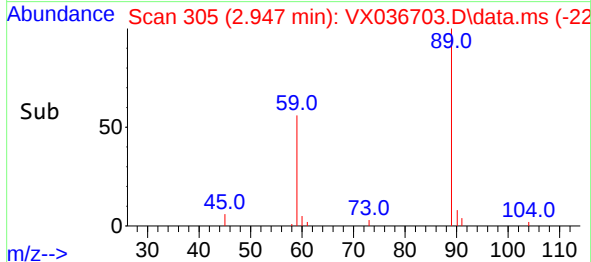
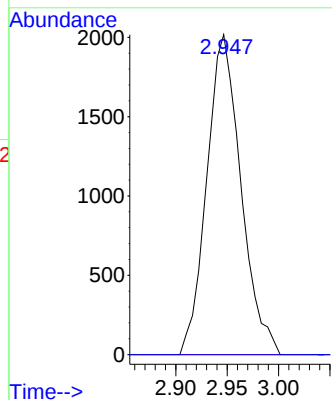
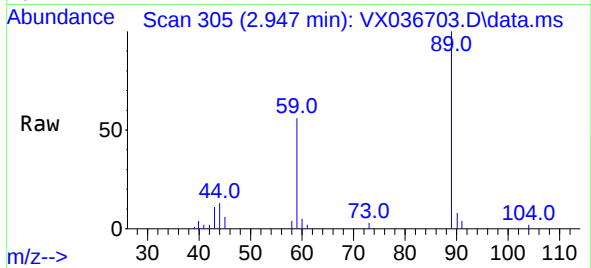




#23
tert-Butyl Alcohol
Concen: 8.886 ug/l
RT: 2.947 min Scan# 308
Delta R.T. -0.018 min
Lab File: VX036703.D
Acq: 28 Jul 2023 13:40

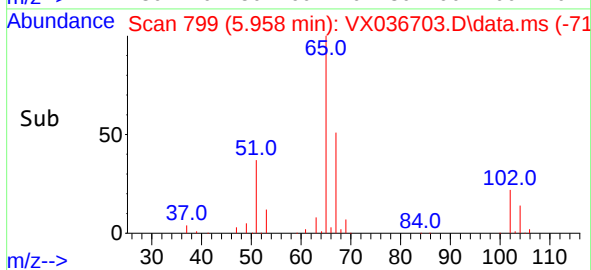
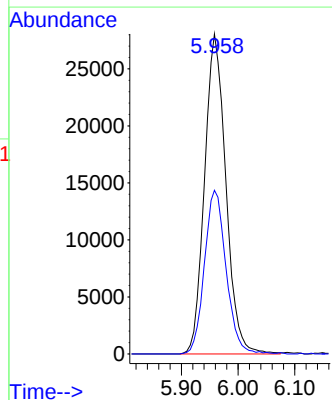
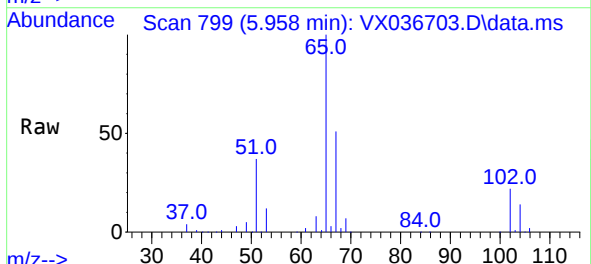
Instrument :
MSVOA_X
ClientSampleId :
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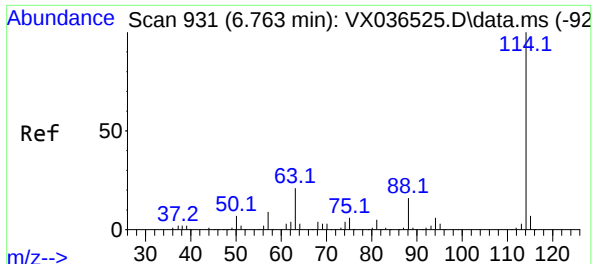
Tgt Ion: 59 Resp: 4663
Ion Ratio Lower Upper
59 100
52 0.0 142.6 213.8#



#27
1,2-Dichloroethane-d4
Concen: 30.093 ug/l
RT: 5.958 min Scan# 799
Delta R.T. 0.000 min
Lab File: VX036703.D
Acq: 28 Jul 2023 13:40

Tgt Ion: 65 Resp: 73202
Ion Ratio Lower Upper
65 100
67 51.7 42.1 63.1

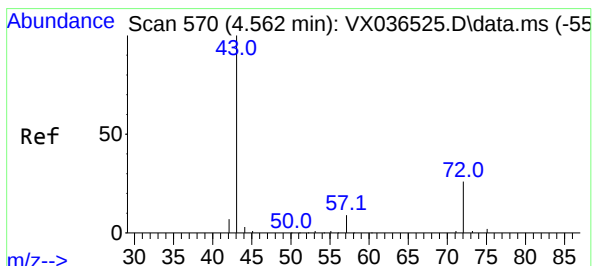
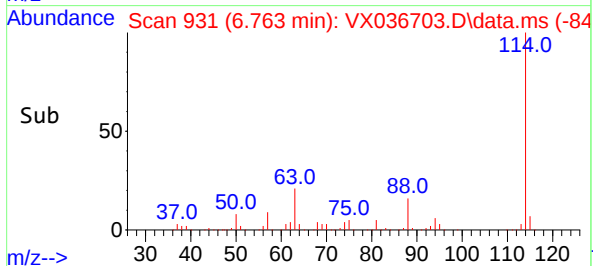
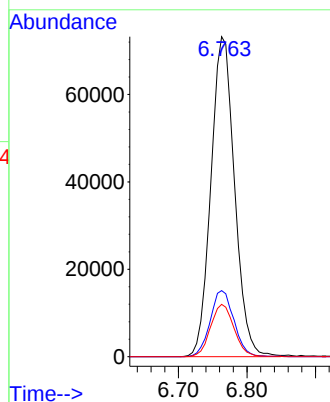
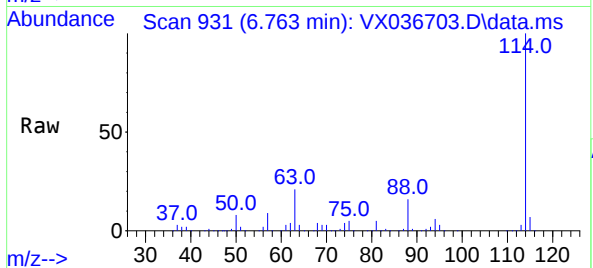




#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 6.763 min Scan# 91
 Delta R.T. 0.000 min
 Lab File: VX036703.D
 Acq: 28 Jul 2023 13:40

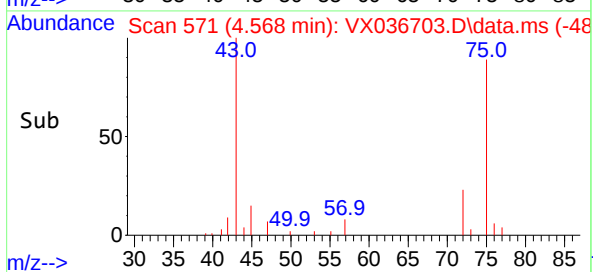
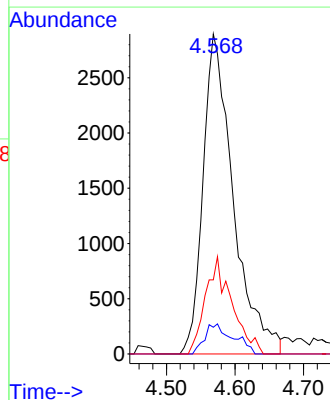
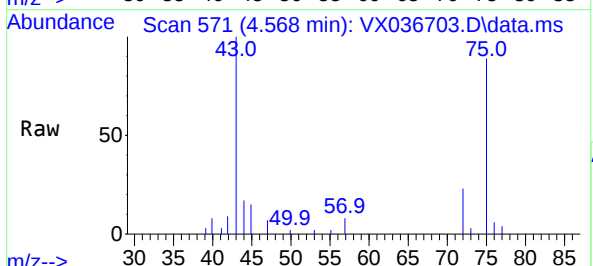
Instrument :
 MSVOA_X
 ClientSampleId :
 002-35TH-AVE-(JUNE)DL

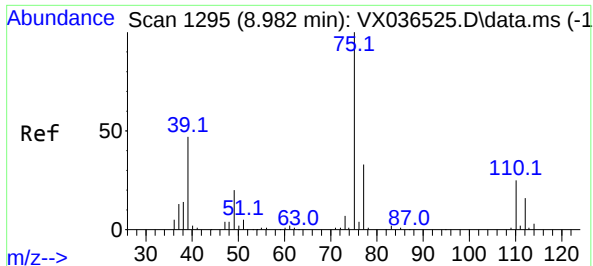
Tgt Ion:114 Resp: 175446
 Ion Ratio Lower Upper
 114 100
 63 20.8 16.6 24.8
 88 16.3 12.9 19.3



#30
 2-Butanone
 Concen: 5.345 ug/l
 RT: 4.568 min Scan# 571
 Delta R.T. 0.006 min
 Lab File: VX036703.D
 Acq: 28 Jul 2023 13:40

Tgt Ion: 43 Resp: 8904
 Ion Ratio Lower Upper
 43 100
 57 7.6 6.4 9.6
 72 15.9 21.6 32.4#





#48

t-1,3-Dichloropropene

Concen: 1.110 ug/l

RT: 8.714 min Scan# 11

Delta R.T. -0.268 min

Lab File: VX036703.D

Acq: 28 Jul 2023 13:40

Instrument :

MSVOA_X

ClientSampleId :

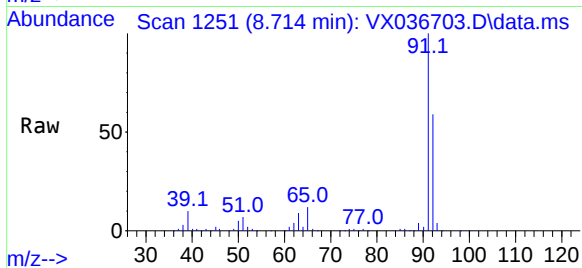
002-35TH-AVE-(JUNE)DL

Tgt Ion: 75 Resp: 3537

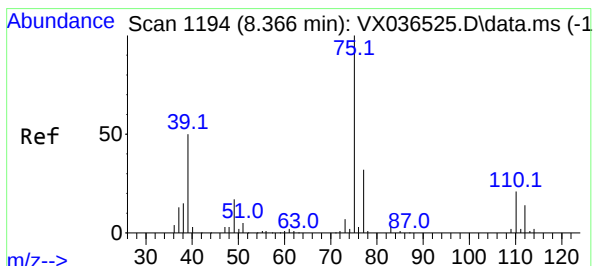
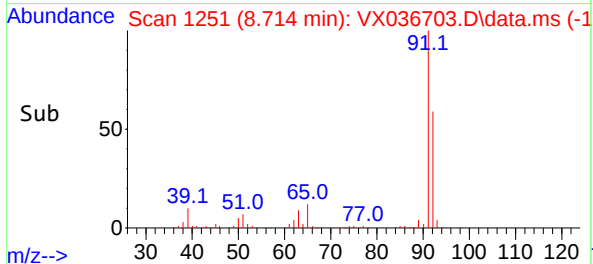
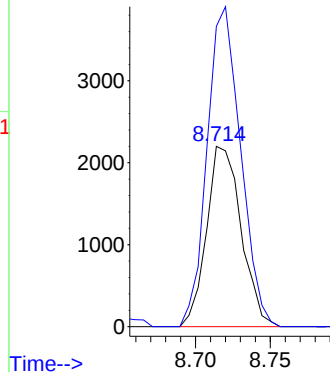
Ion Ratio Lower Upper

75 100

77 166.5 26.8 40.2#



Abundance



#49

cis-1,3-Dichloropropene

Concen: 1.027 ug/l

RT: 8.714 min Scan# 1251

Delta R.T. 0.348 min

Lab File: VX036703.D

Acq: 28 Jul 2023 13:40

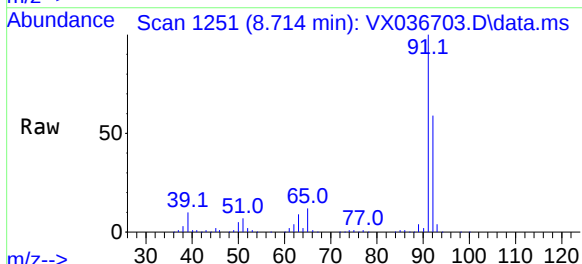
Tgt Ion: 75 Resp: 3537

Ion Ratio Lower Upper

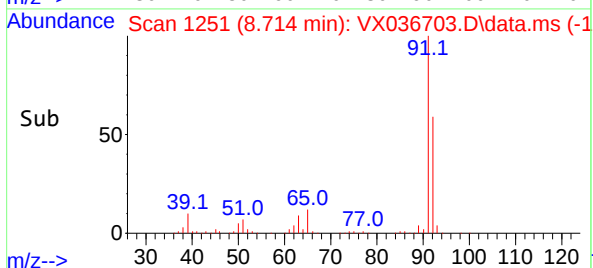
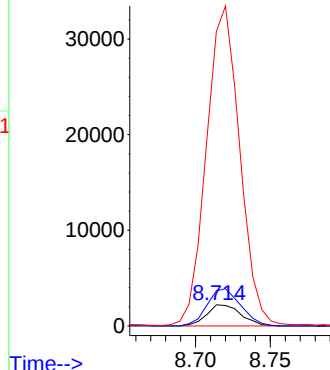
75 100

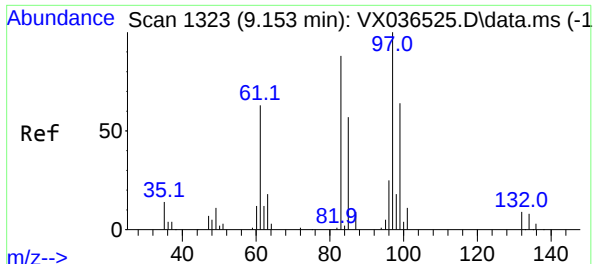
77 166.5 25.4 38.2#

39 1387.6 40.2 60.4#



Abundance

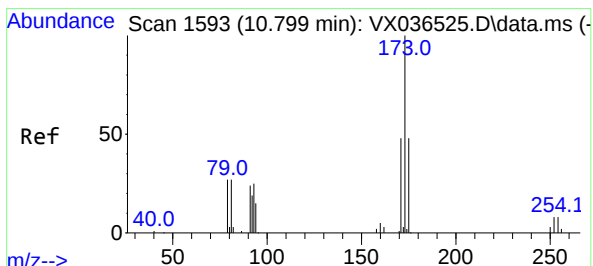
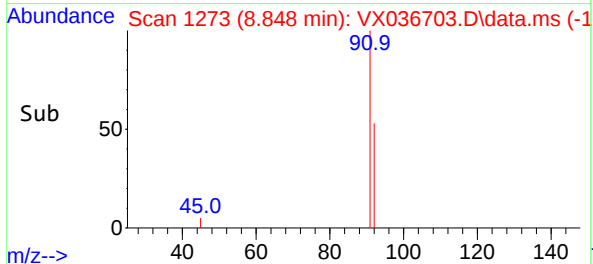
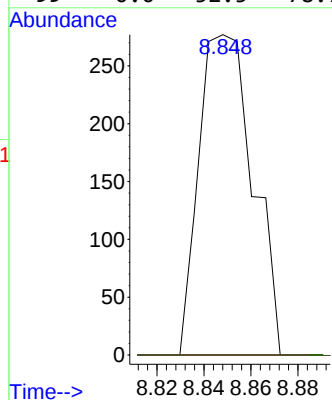
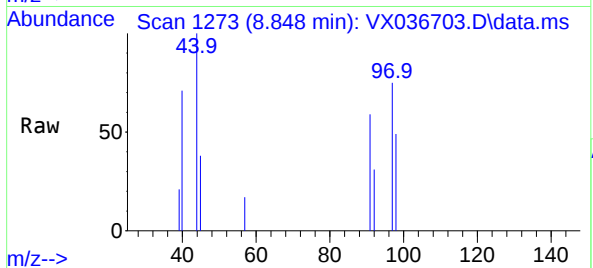




#50
1,1,2-Trichloroethane
Concen: 0.204 ug/l
RT: 8.848 min Scan# 11
Delta R.T. -0.305 min
Lab File: VX036703.D
Acq: 28 Jul 2023 13:40

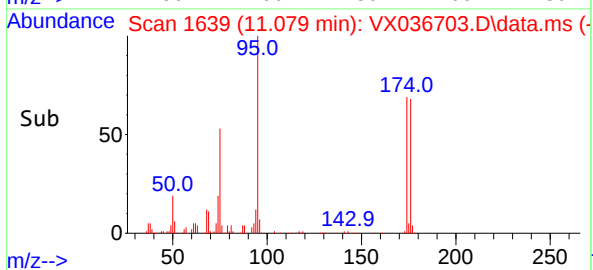
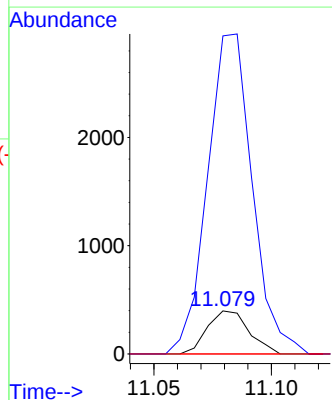
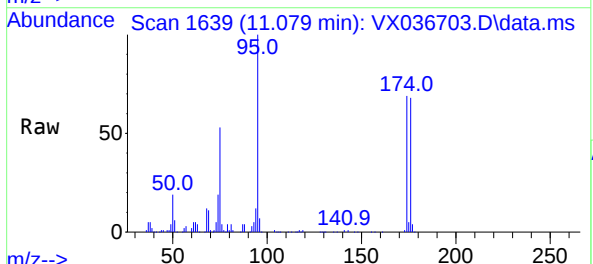
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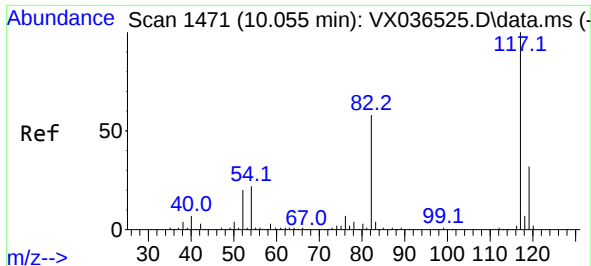
Tgt Ion: 97	Resp: 444
Ion Ratio	Lower Upper
97 100	
83 0.0	70.0 105.0#
85 0.0	46.1 69.1#
99 0.0	52.5 78.7#



#56
Bromoform
Concen: 0.322 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.280 min
Lab File: VX036703.D
Acq: 28 Jul 2023 13:40

Tgt Ion:173	Resp:	492	
Ion	Ratio	Lower	Upper
173	100		
175	797.6	38.1	57.1#
254	0.0	6.7	10.1#

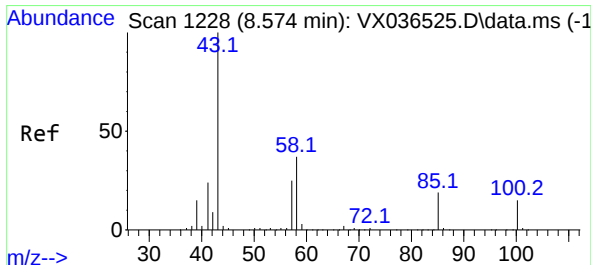
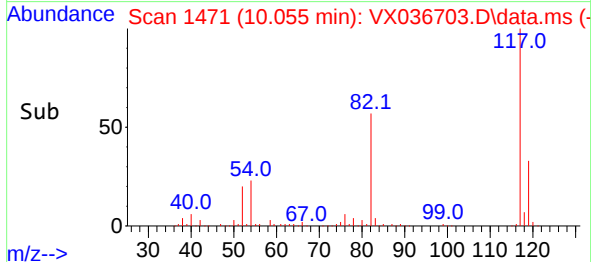
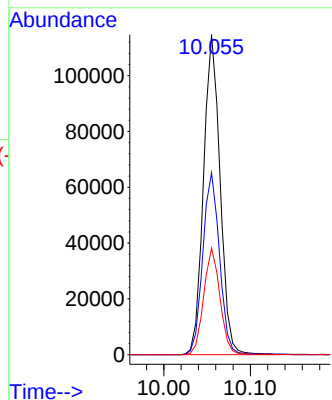
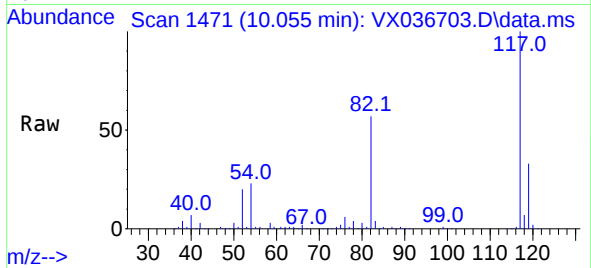




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX036703.D
Acq: 28 Jul 2023 13:40

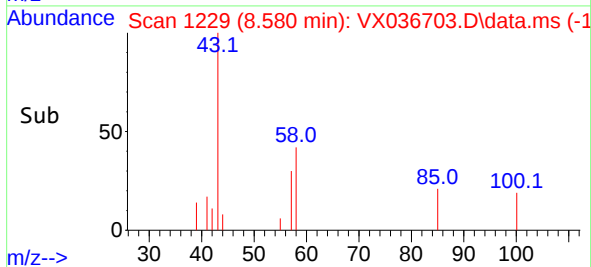
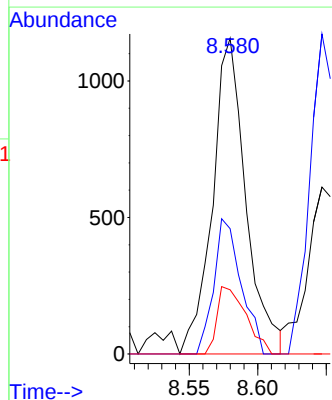
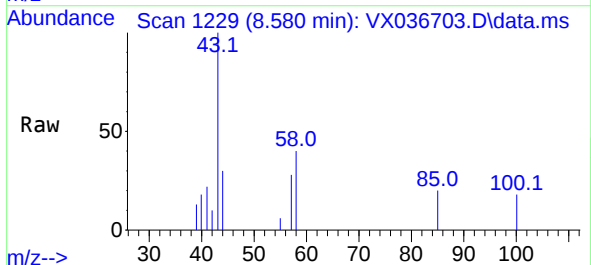
Instrument :
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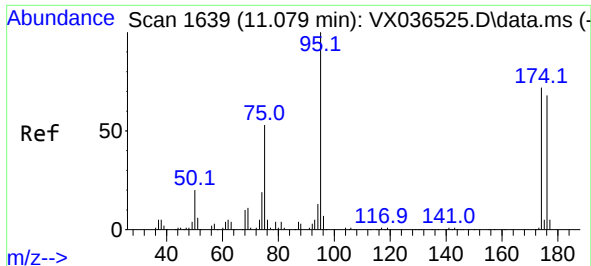
Tgt Ion:117 Resp: 152822
Ion Ratio Lower Upper
117 100
82 57.4 44.7 67.1
119 32.6 25.6 38.4



#58
4-Methyl-2-Pentanone
Concen: 0.620 ug/l
RT: 8.580 min Scan# 1229
Delta R.T. 0.006 min
Lab File: VX036703.D
Acq: 28 Jul 2023 13:40

Tgt Ion: 43 Resp: 1960
Ion Ratio Lower Upper
43 100
58 35.0 30.9 46.3
85 18.4 14.4 21.6

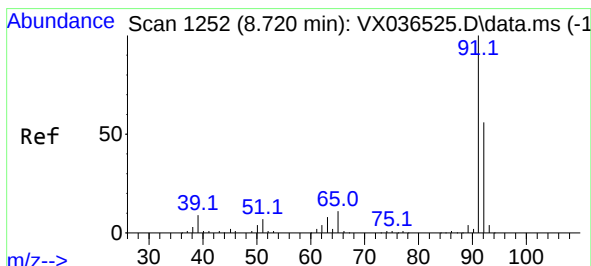
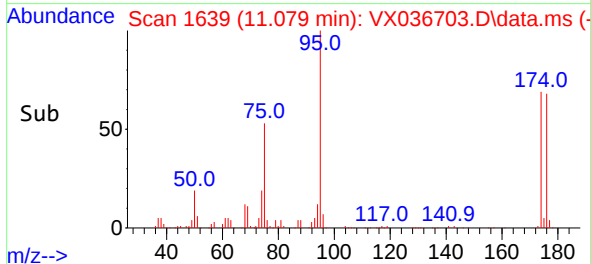
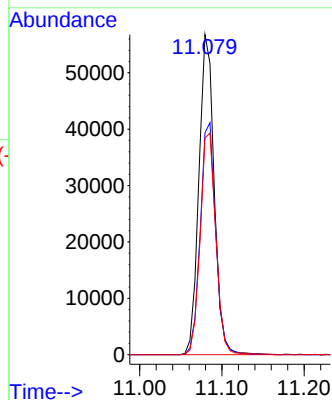
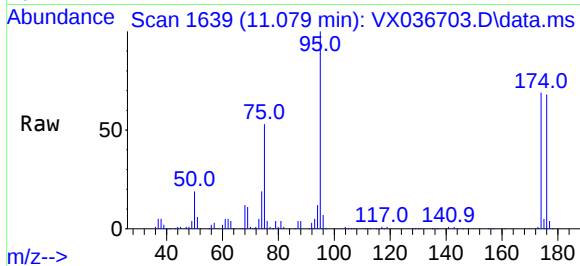




#60
4-Bromofluorobenzene
Concen: 29.554 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX036703.D
Acq: 28 Jul 2023 13:40

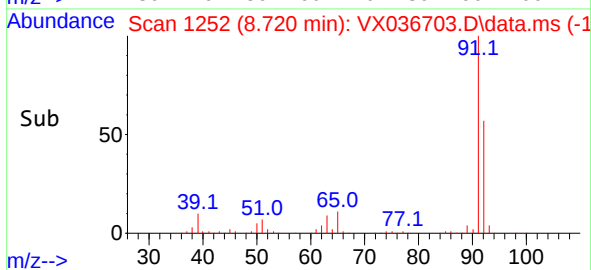
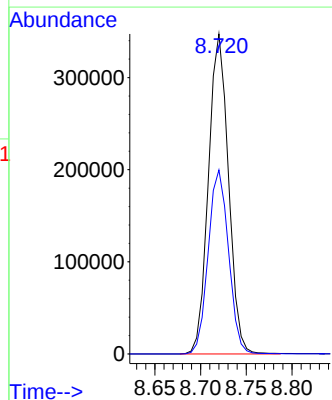
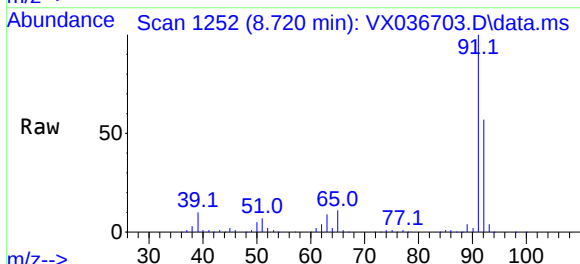
Instrument :
MSVOA_X
ClientSampleId :
002-35TH-AVE-(JUNE)DL

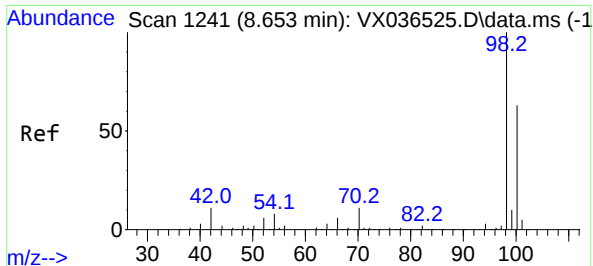
Tgt Ion: 95 Resp: 73262
Ion Ratio Lower Upper
95 100
174 73.0 60.5 90.7
176 70.9 58.2 87.4



#62
Toluene
Concen: 61.565 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX036703.D
Acq: 28 Jul 2023 13:40

Tgt Ion: 91 Resp: 527890
Ion Ratio Lower Upper
91 100
92 58.4 44.9 67.3

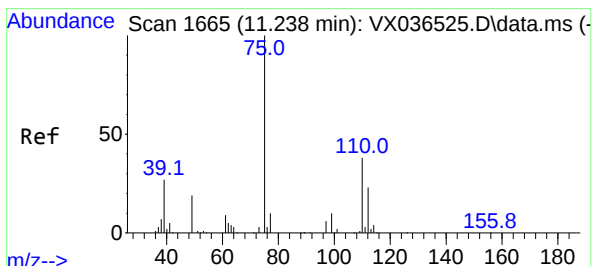
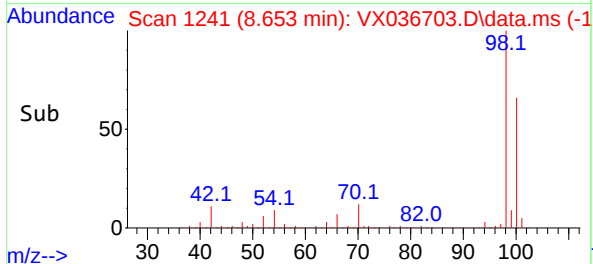
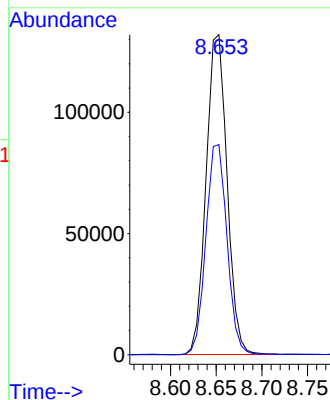
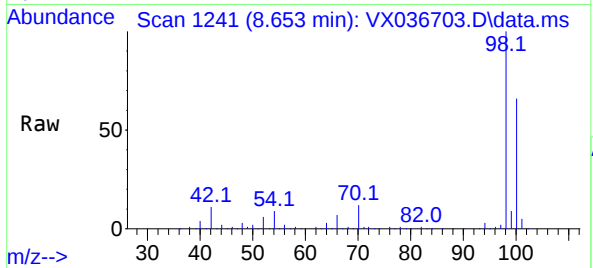




#63
Toluene-d8
Concen: 29.960 ug/l
RT: 8.653 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX036703.D
Acq: 28 Jul 2023 13:40

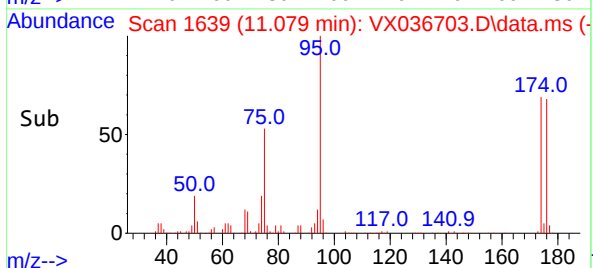
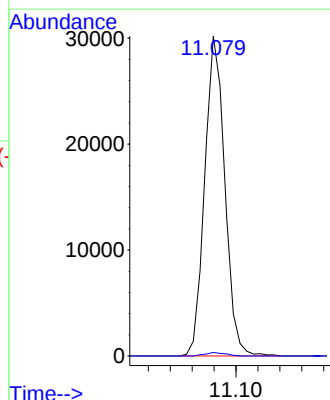
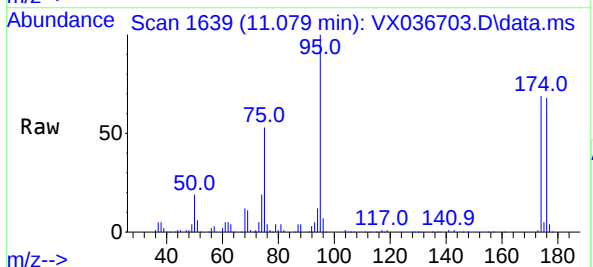
Instrument :
MSVOA_X
ClientSampleId :
002-35TH-AVE-(JUNE)DL

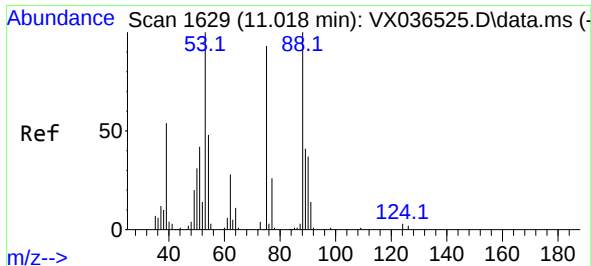
Tgt Ion: 98 Resp: 210688
Ion Ratio Lower Upper
98 100
100 66.0 51.6 77.4



#72
1,2,3-Trichloropropane
Concen: 12.643 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.159 min
Lab File: VX036703.D
Acq: 28 Jul 2023 13:40

Tgt Ion: 75 Resp: 38399
Ion Ratio Lower Upper
75 100
77 1.1 0.0 77.2

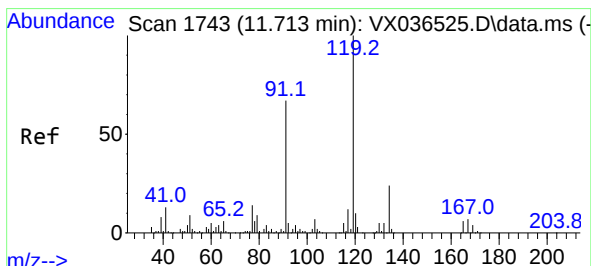
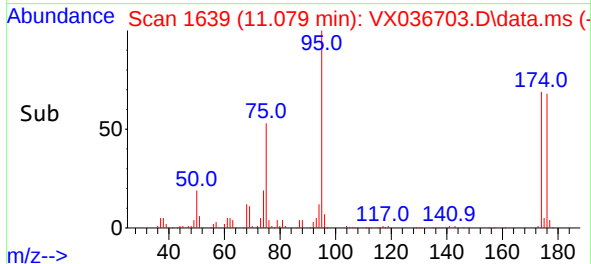
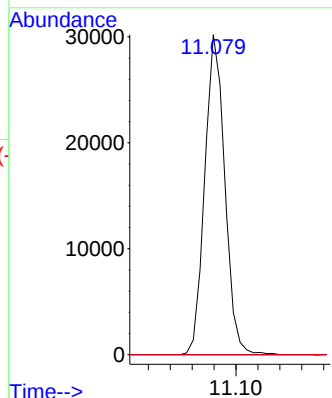
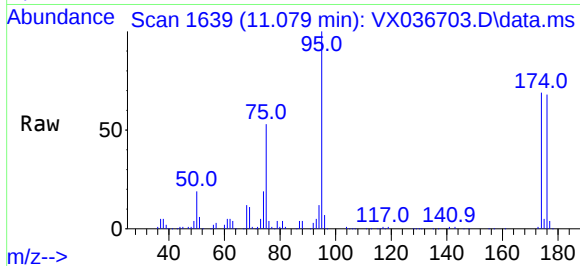




#77
t-1,4-Dichloro-2-butene
Concen: 38.500 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.061 min
Lab File: VX036703.D
Acq: 28 Jul 2023 13:40

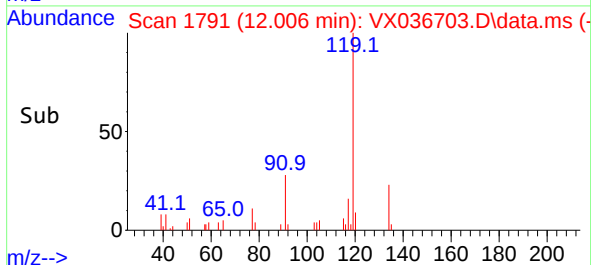
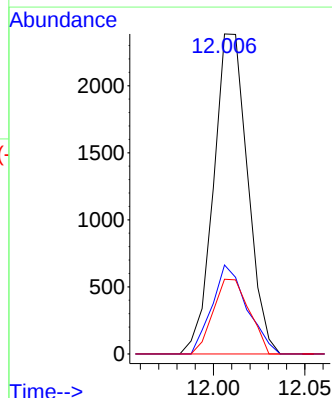
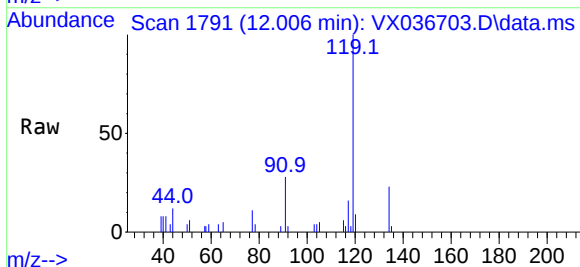
Instrument :
MSVOA_X
ClientSampleId :
002-35TH-AVE-(JUNE)DL

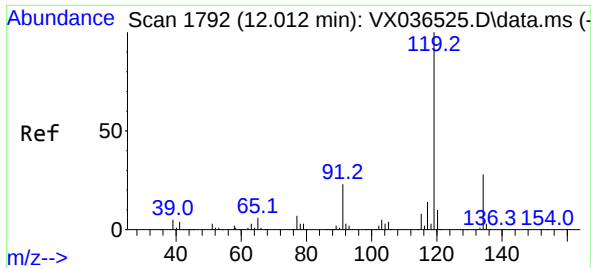
Tgt Ion: 75 Resp: 38399
Ion Ratio Lower Upper
75 100
53 0.0 53.9 161.7#
89 0.0 22.1 66.1#



#79
tert-butylbenzene
Concen: 0.422 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.293 min
Lab File: VX036703.D
Acq: 28 Jul 2023 13:40

Tgt Ion: 119 Resp: 3094
Ion Ratio Lower Upper
119 100
91 28.5 0.0 124.4
134 24.6 0.0 47.2





#82

p-Isopropyltoluene

Concen: 0.403 ug/l

RT: 12.006 min Scan# 11

Delta R.T. -0.006 min

Lab File: VX036703.D

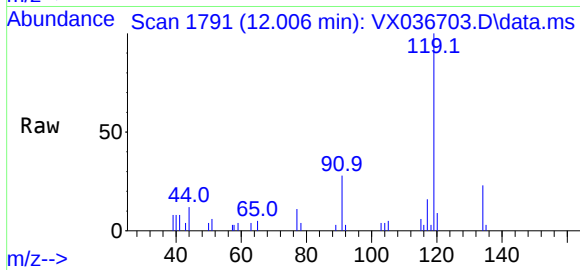
Acq: 28 Jul 2023 13:40

Instrument :

MSVOA_X

ClientSampleId :

002-35TH-AVE-(JUNE)DL



Tgt Ion:119 Resp: 3094

Ion Ratio Lower Upper

119 100

134 24.6 0.0 53.2

91 28.5 0.0 49.4

