

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090523\
 Data File : VL040659.D
 Acq On : 5 Sep 2023 23:06
 Operator : SY/MD
 Sample : 04281-04
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Sep 06 02:08:33 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081523AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Aug 16 05:43:50 2023
 Response via : Initial Calibration

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

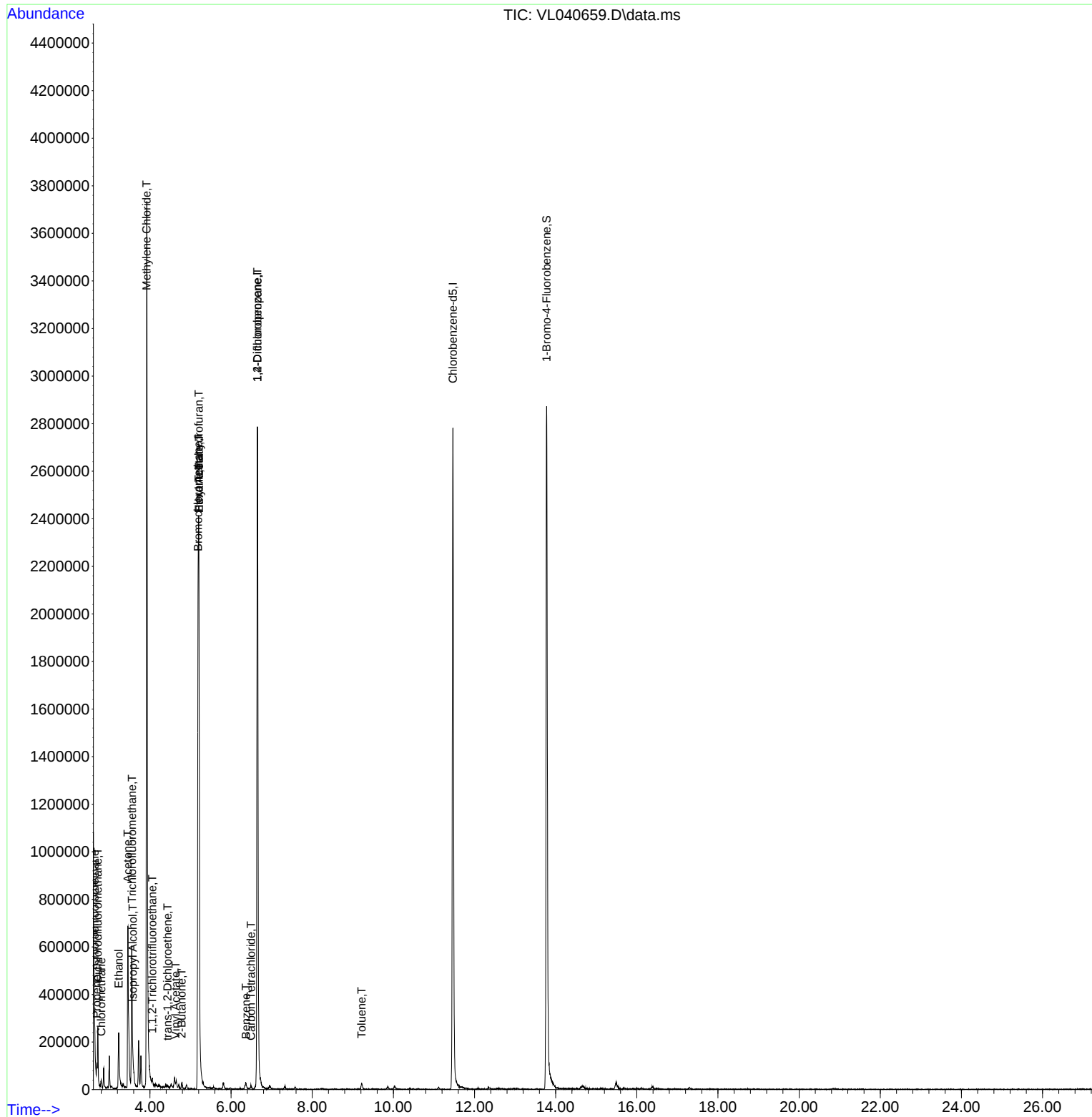
Internal Standards								
1) Bromochloromethane			5.185	49	752639	10.000	ppbv	0.00
33) 1,4-Difluorobenzene			6.648	114	1940678	10.000	ppbv	-0.01
55) Chlorobenzene-d5			11.468	117	1650708	10.000	ppbv	-0.01
System Monitoring Compounds								
68) 1-Bromo-4-Fluorobenzene			13.777	95	1348768	10.274	ppbv	-0.02
Spiked Amount		10.000	Range	65 - 135	Recovery	= 102.700%		
Target Compounds								
								Qvalue
2) Dichlorodifluoromethane			2.716	85	160046	0.987	ppbv	99
3) Chlorodifluoromethane			2.635	51	91161	0.738	ppbv #	74
4) Chloromethane			2.803	50	21105	0.438	ppbv	90
9) Propene			2.690	41	17040	0.445	ppbv #	80
11) Trichlorofluoromethane			3.555	101	381683	2.916	ppbv	98
12) 1,1,2-Trichlorotrifluo...			4.060	101	3474	0.036	ppbv #	1
13) Ethanol			3.230	45	245077	22.934	ppbv	97
15) Acetone			3.455	43	698586	7.588	ppbv	99
19) Isopropyl Alcohol			3.574	45	112960	1.935	ppbv #	1
20) Methylene Chloride			3.922	84	1329298	29.548	ppbv	95
22) trans-1,2-Dichloroethene			4.433	96	1727	0.040	ppbv	89
23) Vinyl Acetate			4.632	43	5633	0.054	ppbv #	1
25) Ethyl Acetate			5.208	43	504589	2.919	ppbv #	77
26) Hexane			5.208	57	701290	8.383	ppbv #	40
34) 2-Butanone			4.783	43	27047	0.276	ppbv	91
35) Carbon Tetrachloride			6.487	117	5312	0.044	ppbv #	52
36) Benzene			6.368	78	6739	0.044	ppbv #	85
39) 1,2-Dichloropropane			6.648	63	499034	8.496	ppbv #	26
41) Tetrahydrofuran			5.205	42	277733	5.021	ppbv #	46
53) Toluene			9.217	91	17220	0.105	ppbv	99

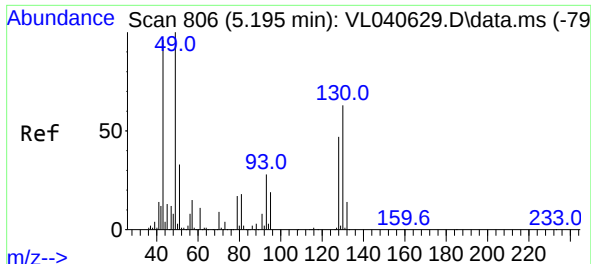
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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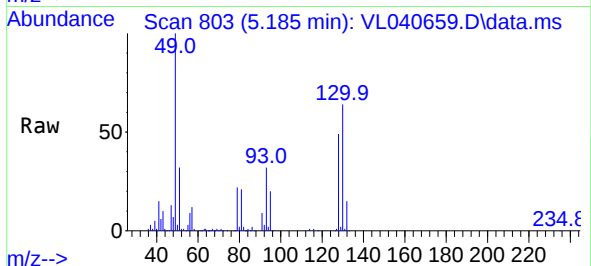
Quant Time: Sep 06 02:08:33 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081523AIR.M
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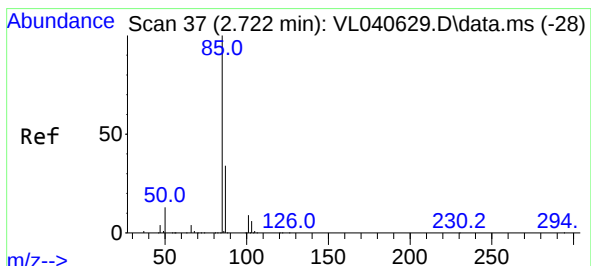
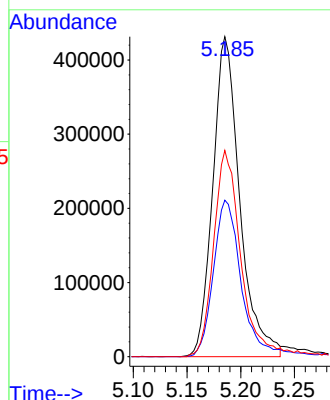
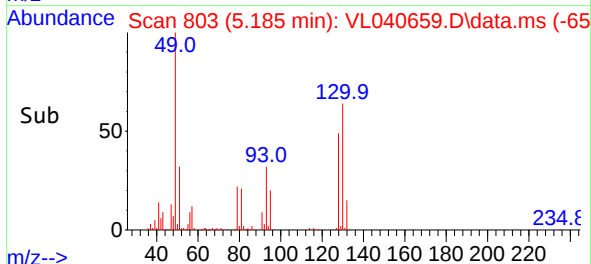


#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.185 min Scan# 80
Delta R.T. -0.010 min
Lab File: VL040659.D
Acq: 5 Sep 2023 23:06

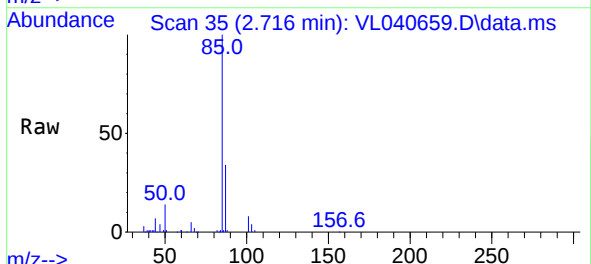
Instrument :
MSVOA_L
ClientSampleId :



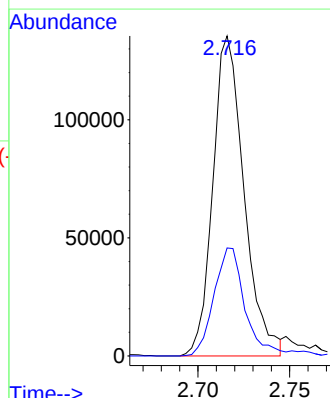
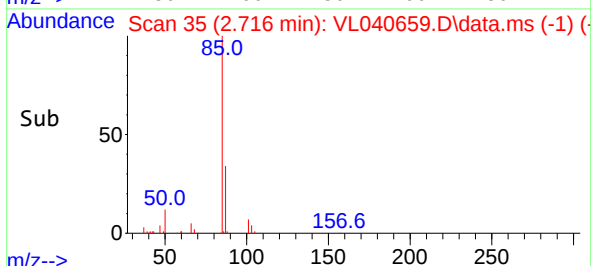
Tgt Ion: 49 Resp: 752639
Ion Ratio Lower Upper
49 100
128 52.3 24.9 74.7
130 66.9 32.2 96.6

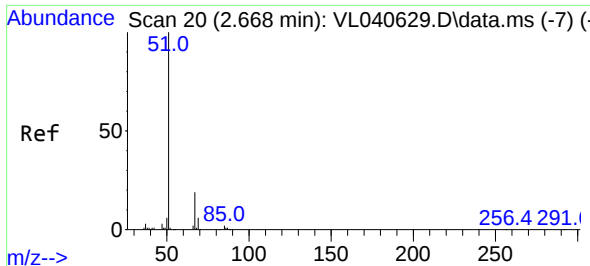


#2
Dichlorodifluoromethane
Concen: 0.987 ppbv
RT: 2.716 min Scan# 35
Delta R.T. -0.007 min
Lab File: VL040659.D
Acq: 5 Sep 2023 23:06



Tgt Ion: 85 Resp: 160046
Ion Ratio Lower Upper
85 100
87 33.8 27.5 41.3

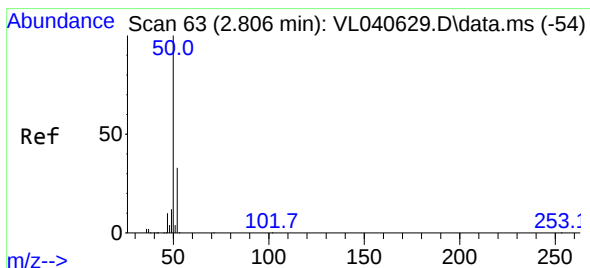
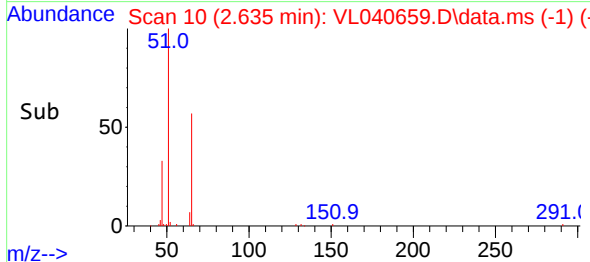
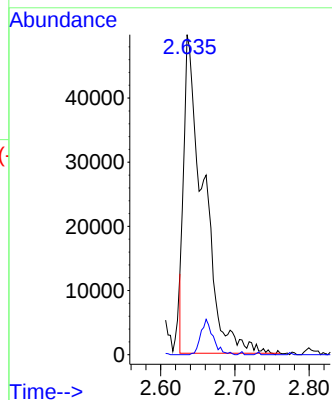
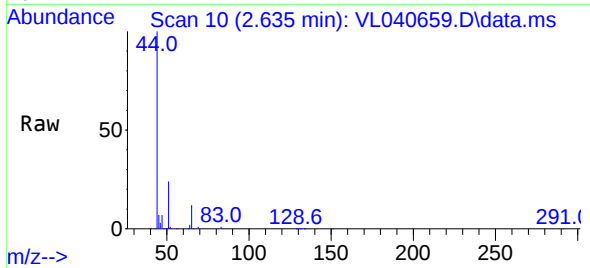




#3
Chlorodifluoromethane
Concen: 0.738 ppbv
RT: 2.635 min Scan# 10
Delta R.T. -0.032 min
Lab File: VL040659.D
Acq: 5 Sep 2023 23:06

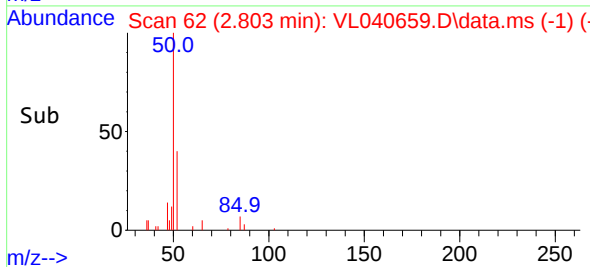
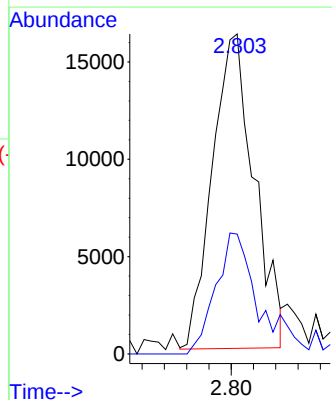
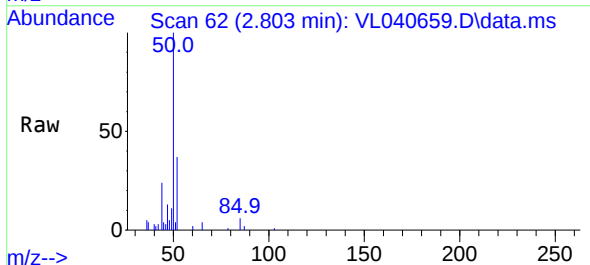
Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 51 Resp: 91161
Ion Ratio Lower Upper
51 100
67 7.2 15.0 22.6#

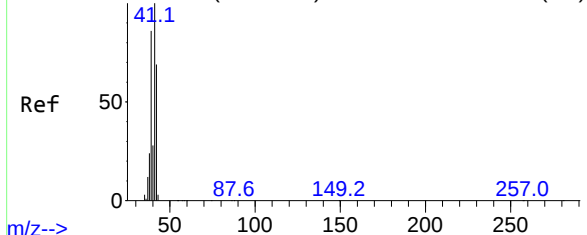


#4
Chloromethane
Concen: 0.438 ppbv
RT: 2.803 min Scan# 62
Delta R.T. -0.003 min
Lab File: VL040659.D
Acq: 5 Sep 2023 23:06

Tgt Ion: 50 Resp: 21105
Ion Ratio Lower Upper
50 100
52 38.2 26.2 39.2



Abundance Scan 26 (2.687 min): VL040629.D\data.ms (-17)



#9

Propene

Concen: 0.445 ppbv

RT: 2.690 min Scan# 21

Delta R.T. 0.003 min

Lab File: VL040659.D

Acq: 5 Sep 2023 23:06

Instrument :

MSVOA_L

ClientSampleId :

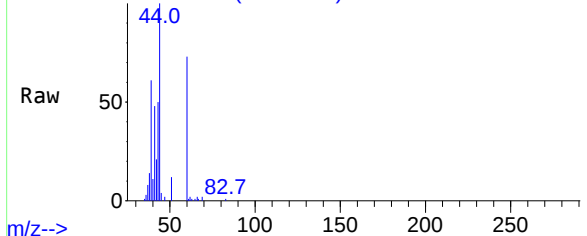
Tgt Ion: 41 Resp: 17040

Ion Ratio Lower Upper

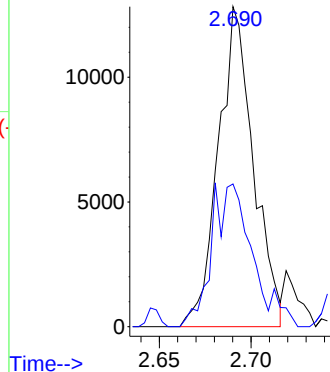
41 100

42 53.8 56.5 84.7#

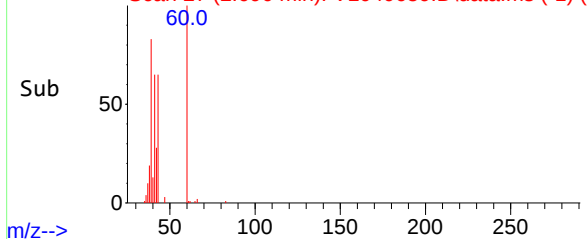
Abundance Scan 27 (2.690 min): VL040659.D\data.ms



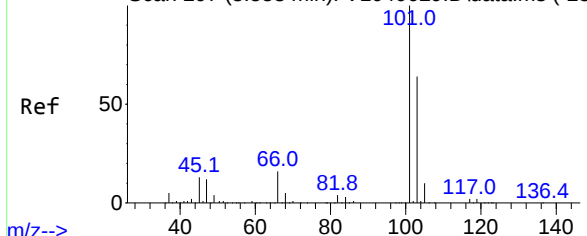
Abundance



Abundance Scan 27 (2.690 min): VL040659.D\data.ms (-1) (-



Abundance Scan 297 (3.558 min): VL040629.D\data.ms (-28



#11

Trichlorofluoromethane

Concen: 2.916 ppbv

RT: 3.555 min Scan# 296

Delta R.T. -0.003 min

Lab File: VL040659.D

Acq: 5 Sep 2023 23:06

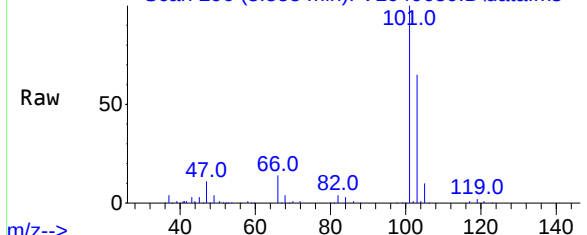
Tgt Ion:101 Resp: 381683

Ion Ratio Lower Upper

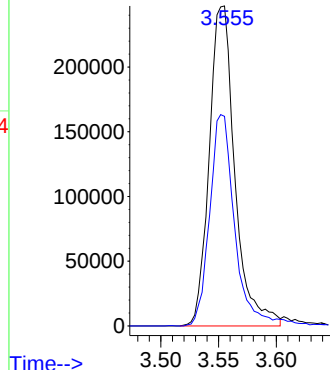
101 100

103 65.5 51.1 76.7

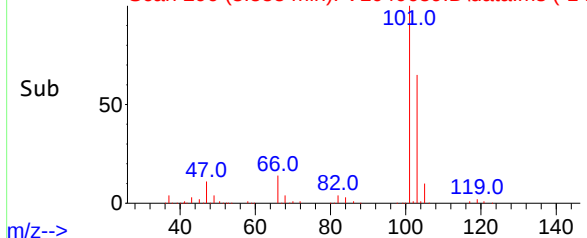
Abundance Scan 296 (3.555 min): VL040659.D\data.ms

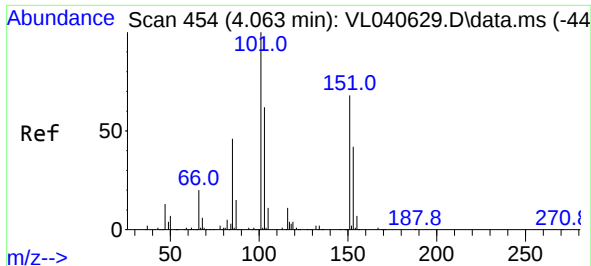


Abundance



Abundance Scan 296 (3.555 min): VL040659.D\data.ms (-14





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.036 ppbv

RT: 4.060 min Scan# 41

Delta R.T. -0.003 min

Lab File: VL040659.D

Acq: 5 Sep 2023 23:06

Instrument :

MSVOA_L

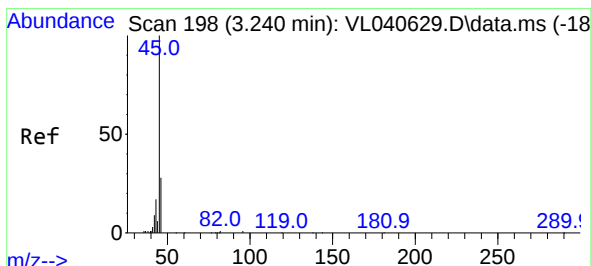
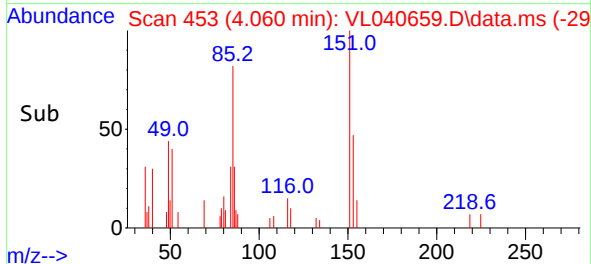
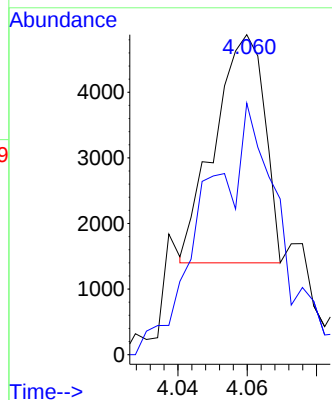
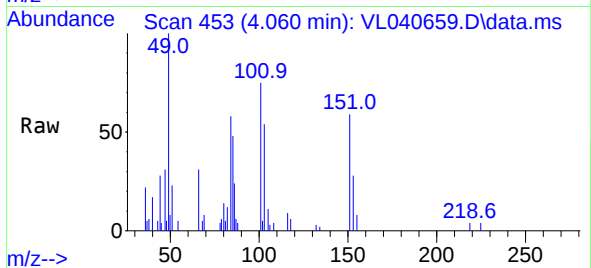
ClientSampleId :

Tgt Ion:101 Resp: 3474

Ion Ratio Lower Upper

101 100

151 167.0 56.2 84.2#



#13

Ethanol

Concen: 22.934 ppbv

RT: 3.230 min Scan# 195

Delta R.T. -0.010 min

Lab File: VL040659.D

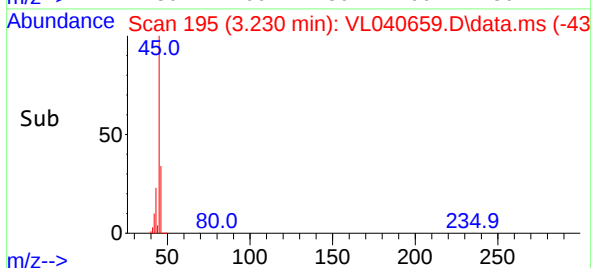
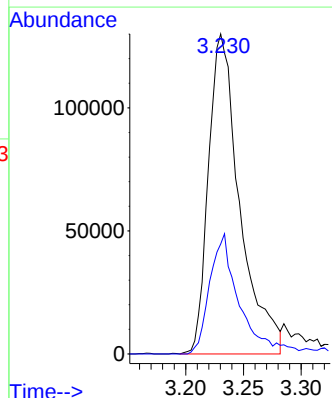
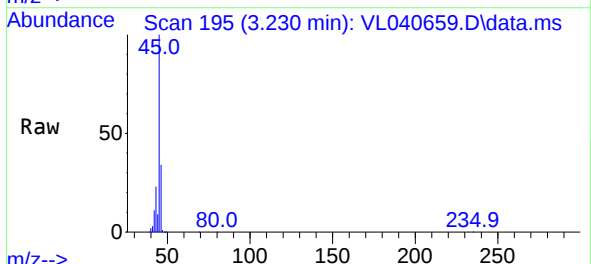
Acq: 5 Sep 2023 23:06

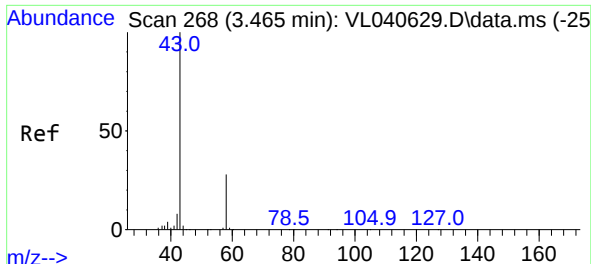
Tgt Ion: 45 Resp: 245077

Ion Ratio Lower Upper

45 100

46 37.1 14.2 56.6

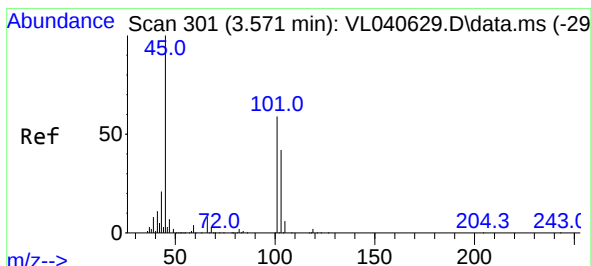
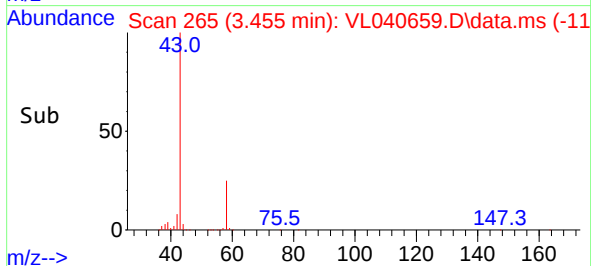
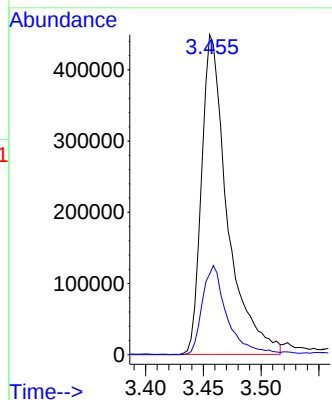
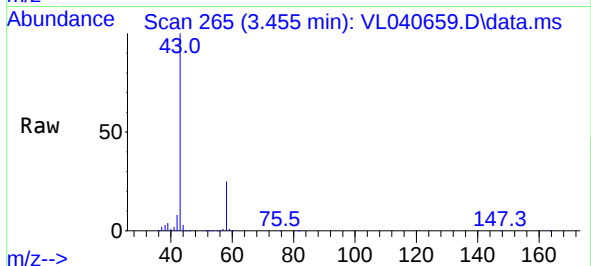




#15
Acetone
Concen: 7.588 ppbv
RT: 3.455 min Scan# 20
Delta R.T. -0.010 min
Lab File: VL040659.D
Acq: 5 Sep 2023 23:06

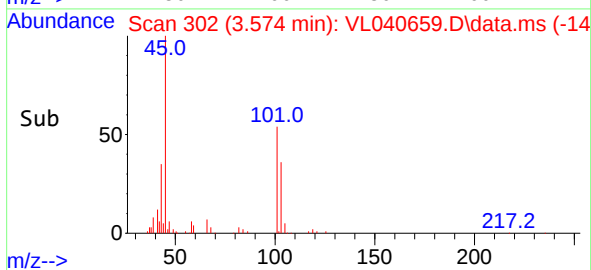
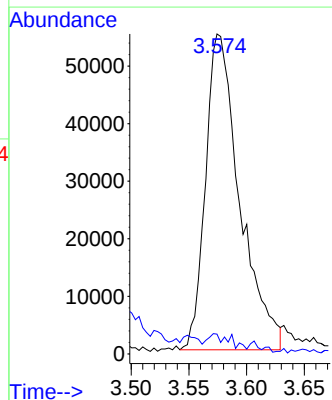
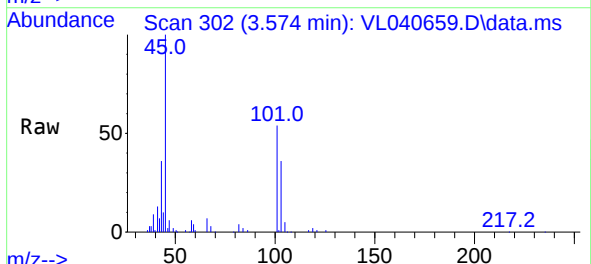
Instrument :
MSVOA_L
ClientSampleId :

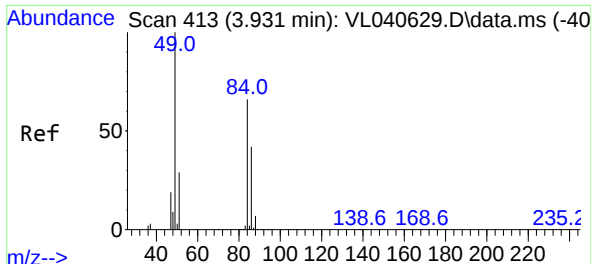
Tgt Ion: 43 Resp: 698586
Ion Ratio Lower Upper
43 100
58 27.3 22.4 33.6



#19
Isopropyl Alcohol
Concen: 1.935 ppbv
RT: 3.574 min Scan# 302
Delta R.T. 0.003 min
Lab File: VL040659.D
Acq: 5 Sep 2023 23:06

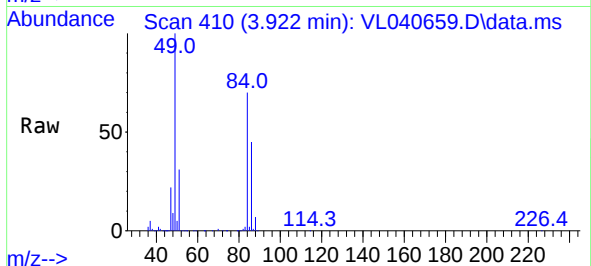
Tgt Ion: 45 Resp: 112960
Ion Ratio Lower Upper
45 100
58 168.8 1.9 2.9#





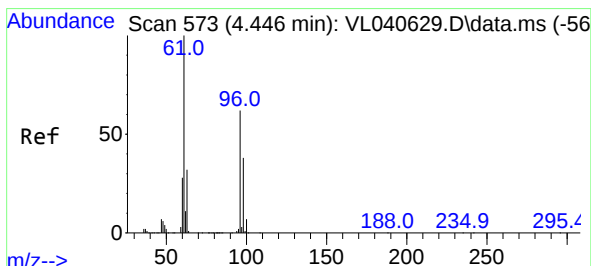
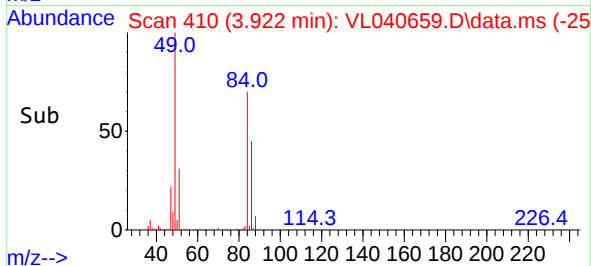
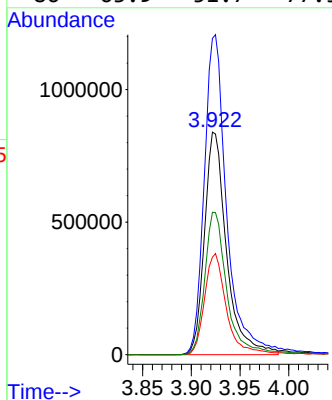
#20
Methylene Chloride
Concen: 29.548 ppbv
RT: 3.922 min Scan# 413
Delta R.T. -0.010 min
Lab File: VL040659.D
Acq: 5 Sep 2023 23:06

Instrument :
MSVOA_L
ClientSampleId :



Tgt Ion: 84 Resp: 1329298

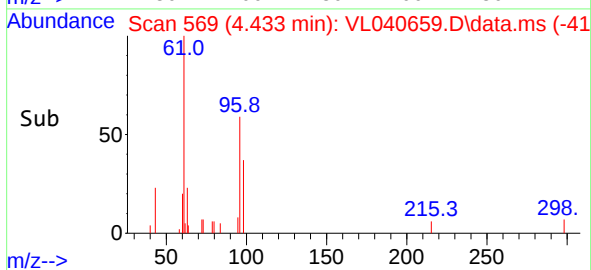
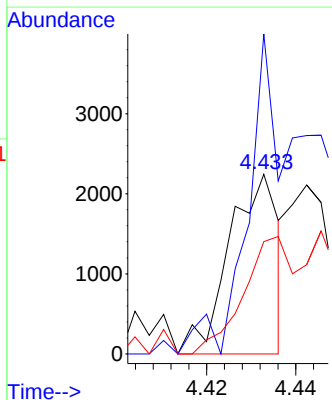
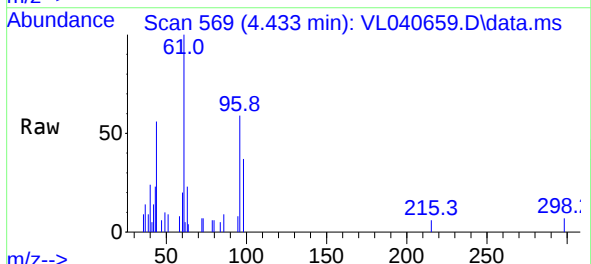
Ion	Ratio	Lower	Upper
84	100		
49	142.1	122.1	183.1
51	43.7	35.4	53.2
86	63.9	51.7	77.5

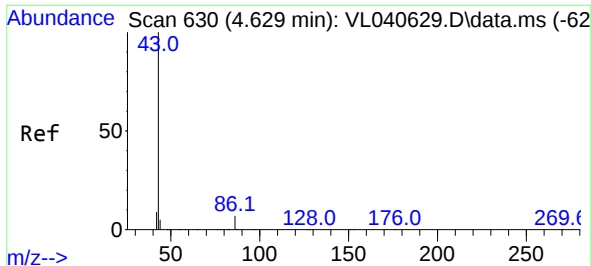


#22
trans-1,2-Dichloroethene
Concen: 0.040 ppbv
RT: 4.433 min Scan# 569
Delta R.T. -0.013 min
Lab File: VL040659.D
Acq: 5 Sep 2023 23:06

Tgt Ion: 96 Resp: 1727

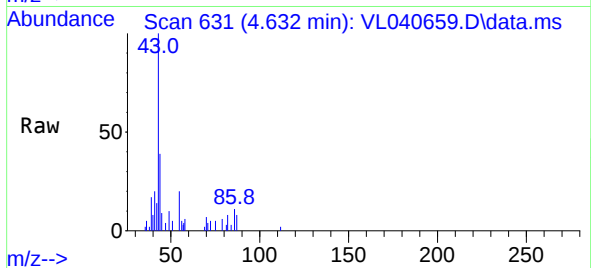
Ion	Ratio	Lower	Upper
96	100		
61	178.0	128.1	192.1
98	62.5	48.1	72.1





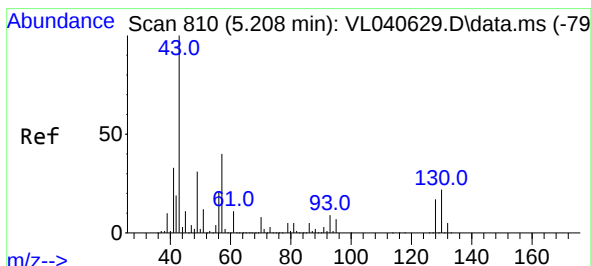
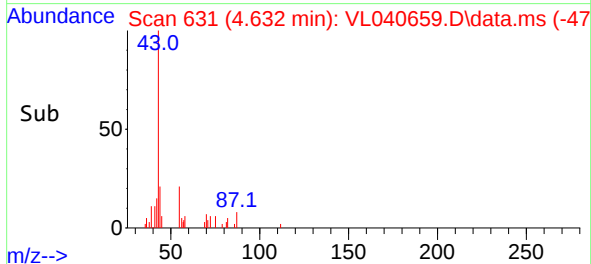
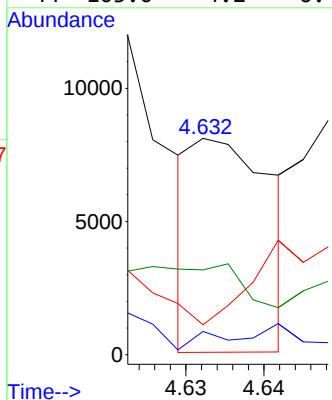
#23
 Vinyl Acetate
 Concen: 0.054 ppbv
 RT: 4.632 min Scan# 61
 Delta R.T. 0.003 min
 Lab File: VL040659.D
 Acq: 5 Sep 2023 23:06

Instrument :
 MSVOA_L
 ClientSampleId :



Tgt Ion: 43 Resp: 5633

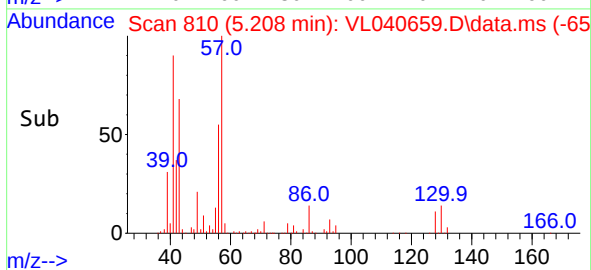
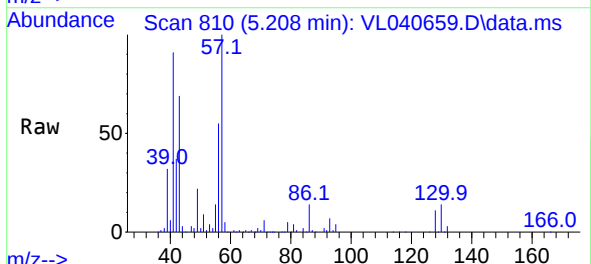
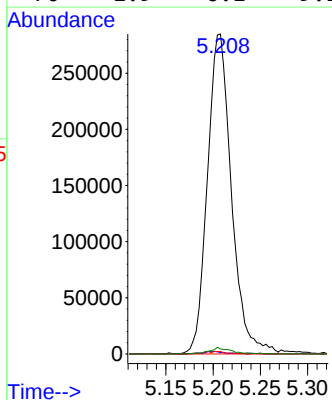
Ion	Ratio	Lower	Upper
43	100		
86	50.0	5.0	7.6#
42	0.0	7.8	11.8#
44	103.0	4.2	6.4#

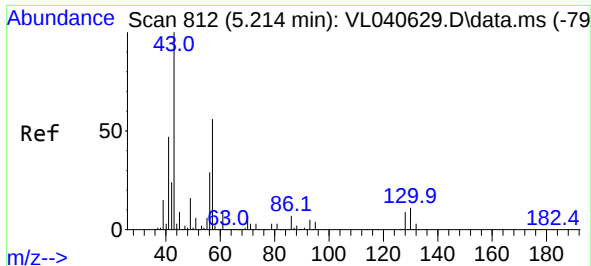


#25
 Ethyl Acetate
 Concen: 2.919 ppbv
 RT: 5.208 min Scan# 810
 Delta R.T. -0.000 min
 Lab File: VL040659.D
 Acq: 5 Sep 2023 23:06

Tgt Ion: 43 Resp: 504589

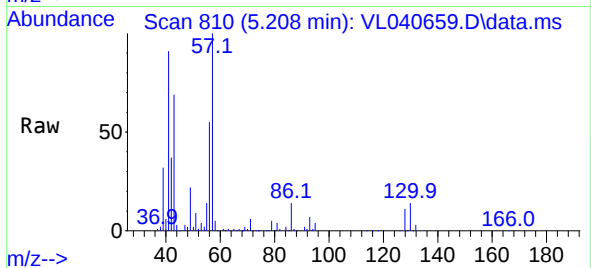
Ion	Ratio	Lower	Upper
43	100		
45	0.8	8.2	12.4#
61	0.7	8.3	12.5#
70	1.9	6.1	9.1#



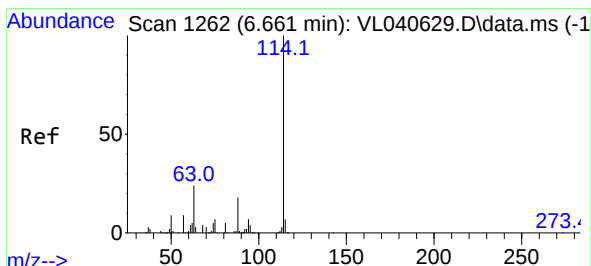
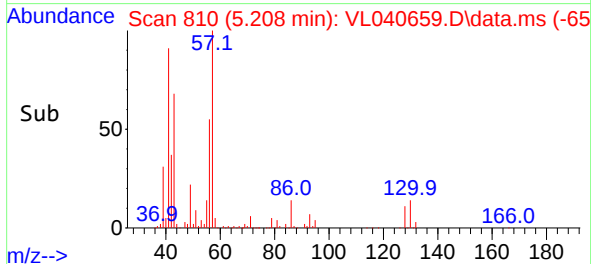
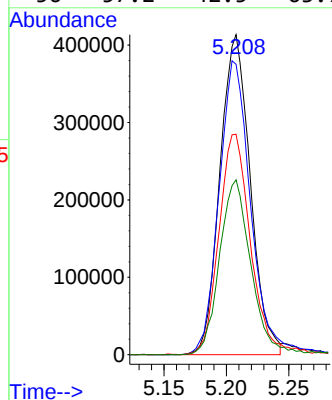


#26
Hexane
Concen: 8.383 ppbv
RT: 5.208 min Scan# 812
Delta R.T. -0.007 min
Lab File: VL040659.D
Acq: 5 Sep 2023 23:06

Instrument :
MSVOA_L
ClientSampleId :

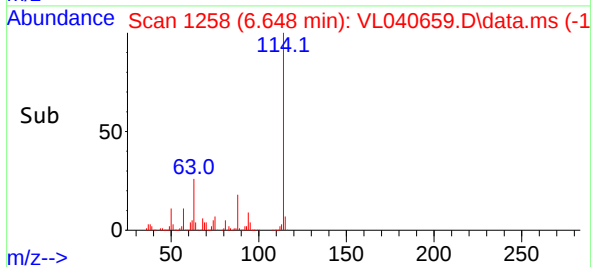
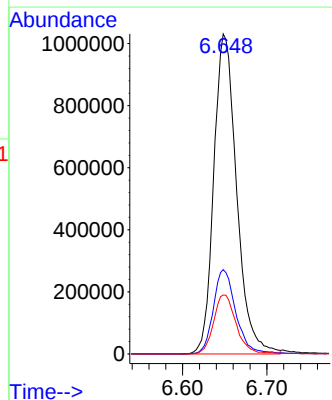
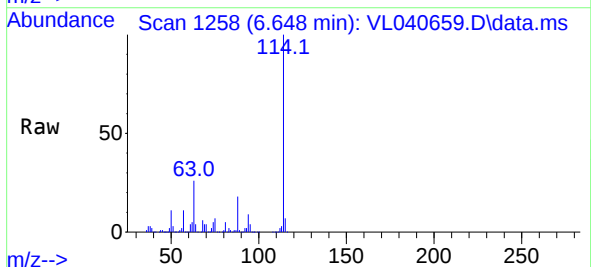


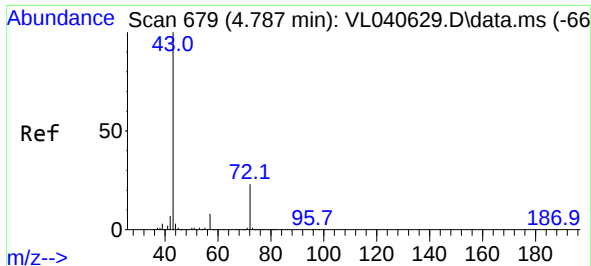
Tgt Ion: 57 Resp: 701290
Ion Ratio Lower Upper
57 100
41 97.4 69.3 103.9
43 72.7 177.9 266.9#
56 57.2 42.5 63.7



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.648 min Scan# 1258
Delta R.T. -0.013 min
Lab File: VL040659.D
Acq: 5 Sep 2023 23:06

Tgt Ion: 114 Resp: 1940678
Ion Ratio Lower Upper
114 100
63 26.2 20.2 30.2
88 18.4 14.1 21.1

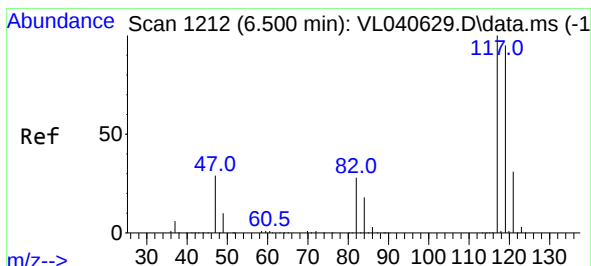
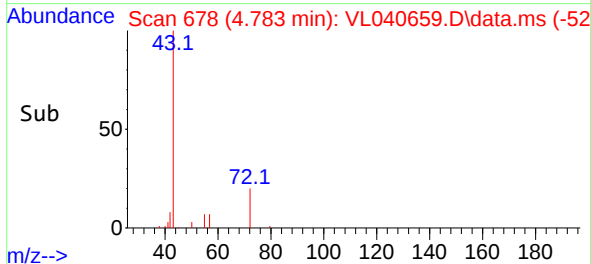
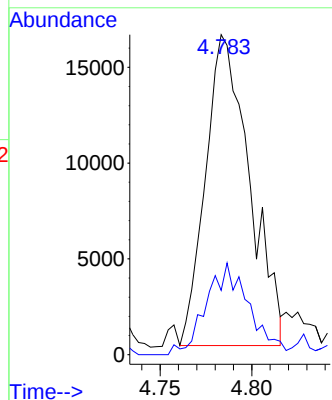
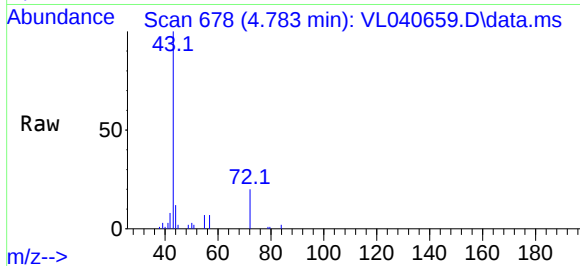




#34
2-Butanone
Concen: 0.276 ppbv
RT: 4.783 min Scan# 61
Delta R.T. -0.003 min
Lab File: VL040659.D
Acq: 5 Sep 2023 23:06

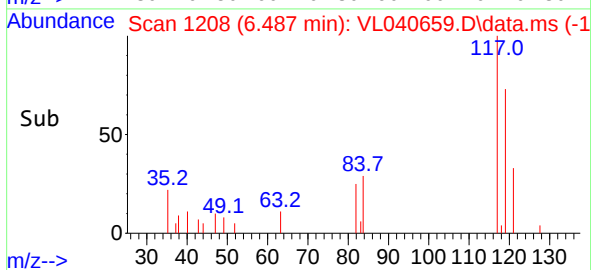
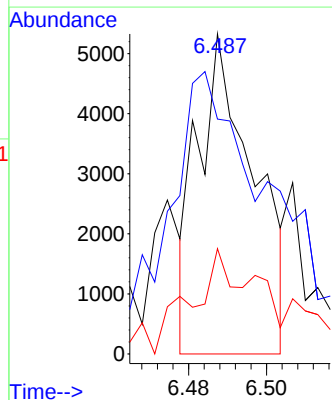
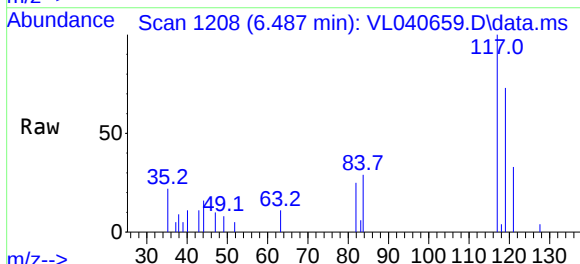
Instrument :
MSVOA_L
ClientSampleId :

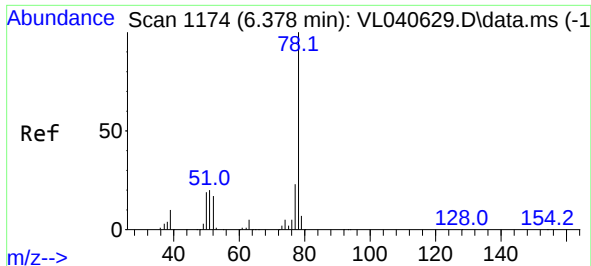
Tgt Ion: 43 Resp: 27047
Ion Ratio Lower Upper
43 100
72 28.4 19.2 28.8



#35
Carbon Tetrachloride
Concen: 0.044 ppbv
RT: 6.487 min Scan# 1208
Delta R.T. -0.013 min
Lab File: VL040659.D
Acq: 5 Sep 2023 23:06

Tgt Ion: 117 Resp: 5312
Ion Ratio Lower Upper
117 100
119 37.3 75.6 113.4#
121 38.6 24.9 37.3#

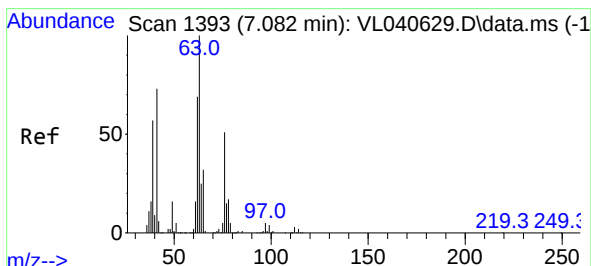
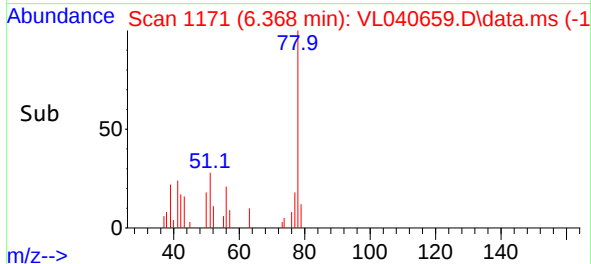
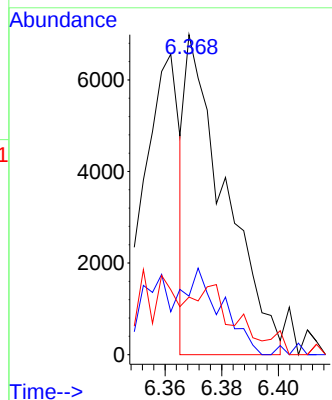
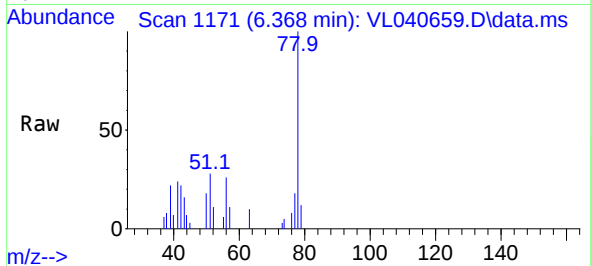




#36
Benzene
Concen: 0.044 ppbv
RT: 6.368 min Scan# 1174
Delta R.T. -0.010 min
Lab File: VL040659.D
Acq: 5 Sep 2023 23:06

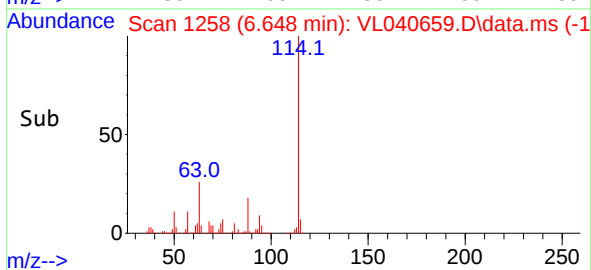
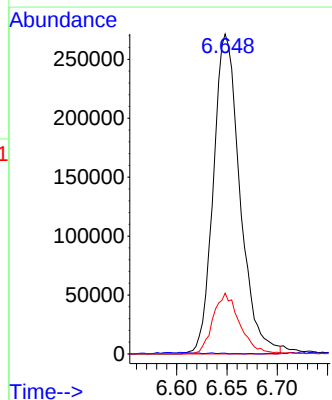
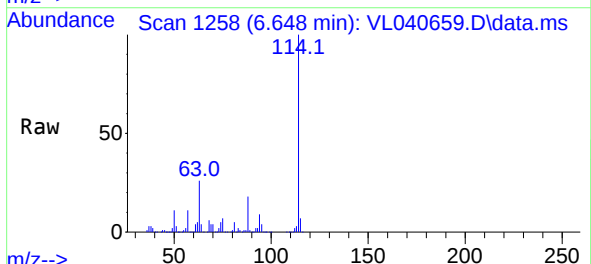
Instrument :
MSVOA_L
ClientSampleId :

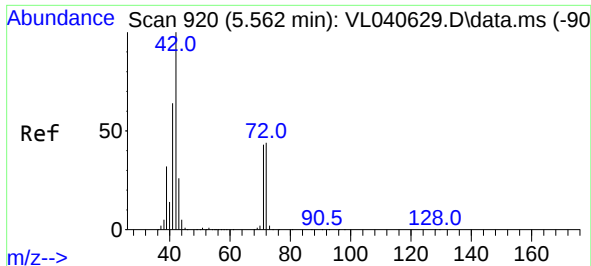
Tgt Ion: 78 Resp: 6739
Ion Ratio Lower Upper
78 100
77 16.2 18.2 27.2#
50 11.0 15.0 22.6#



#39
1,2-Dichloropropane
Concen: 8.496 ppbv
RT: 6.648 min Scan# 1258
Delta R.T. -0.434 min
Lab File: VL040659.D
Acq: 5 Sep 2023 23:06

Tgt Ion: 63 Resp: 499034
Ion Ratio Lower Upper
63 100
41 0.0 58.2 87.2#
62 19.0 55.0 82.4#





#41

Tetrahydrofuran

Concen: 5.021 ppbv

RT: 5.205 min Scan# 80

Delta R.T. -0.357 min

Lab File: VL040659.D

Acq: 5 Sep 2023 23:06

Instrument :

MSVOA_L

ClientSampleId :

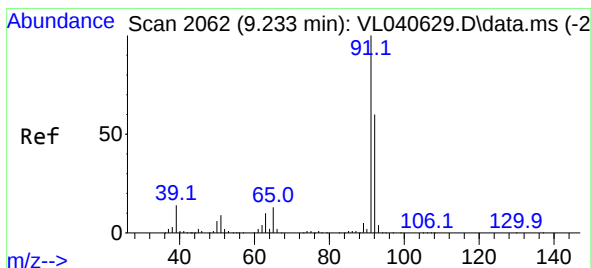
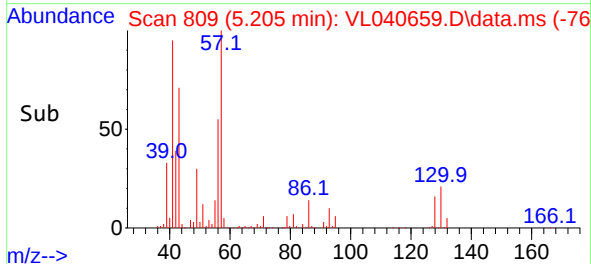
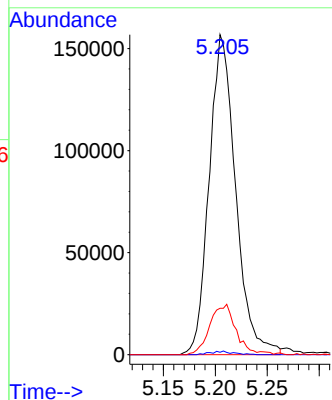
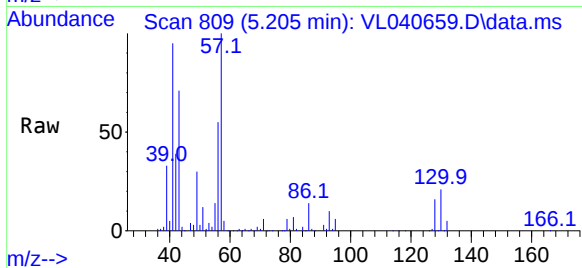
Tgt Ion: 42 Resp: 277733

Ion Ratio Lower Upper

42 100

72 0.9 34.2 51.4#

71 15.7 33.4 50.0#



#53

Toluene

Concen: 0.105 ppbv

RT: 9.217 min Scan# 2057

Delta R.T. -0.016 min

Lab File: VL040659.D

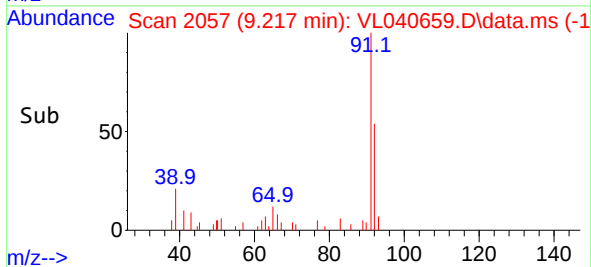
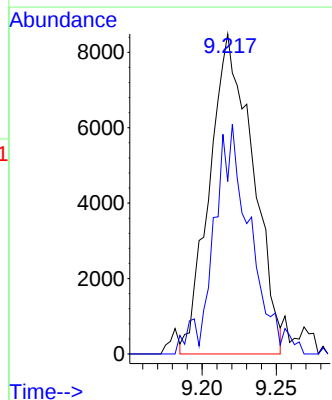
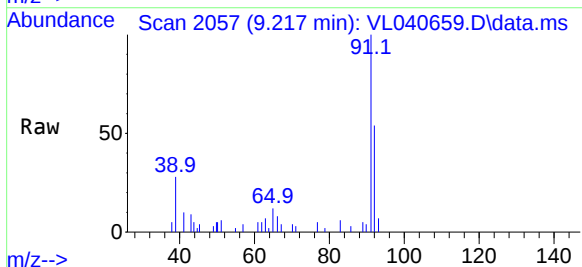
Acq: 5 Sep 2023 23:06

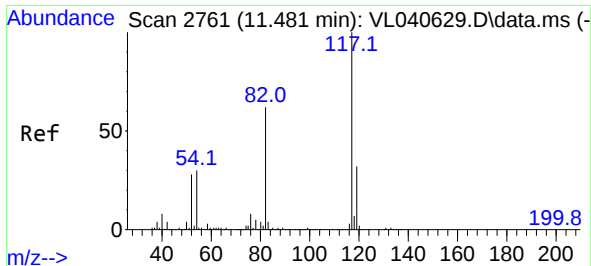
Tgt Ion: 91 Resp: 17220

Ion Ratio Lower Upper

91 100

92 60.8 48.0 72.0

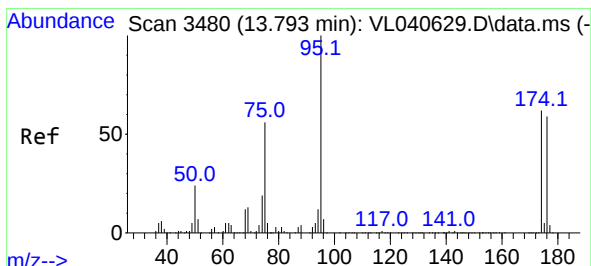
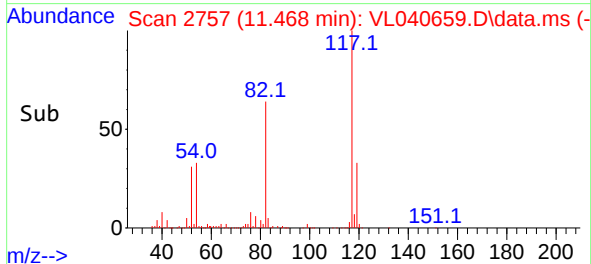
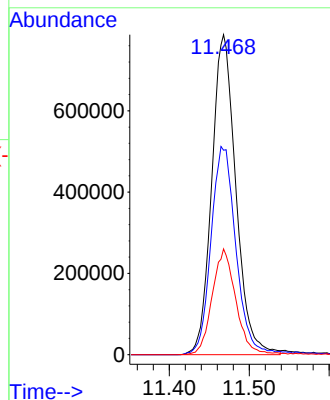
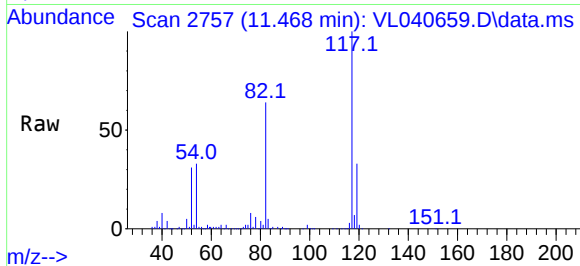




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.468 min Scan# 21
Delta R.T. -0.013 min
Lab File: VL040659.D
Acq: 5 Sep 2023 23:06

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion:117 Resp: 1650708
Ion Ratio Lower Upper
117 100
82 68.4 49.5 74.3
119 32.3 24.5 36.7



#68
1-Bromo-4-Fluorobenzene
Concen: 10.274 ppbv
RT: 13.777 min Scan# 3475
Delta R.T. -0.016 min
Lab File: VL040659.D
Acq: 5 Sep 2023 23:06

Tgt Ion: 95 Resp: 1348768
Ion Ratio Lower Upper
95 100
174 63.3 49.1 73.7
175 4.4 3.7 5.5

