

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041923\
 Data File : VL040389.D
 Acq On : 19 Apr 2023 21:06
 Operator : SY/MD
 Sample : 02368-05 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VP-1A

Quant Time: Apr 20 05:14:31 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041323AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Apr 13 14:37:02 2023
 Response via : Initial Calibration

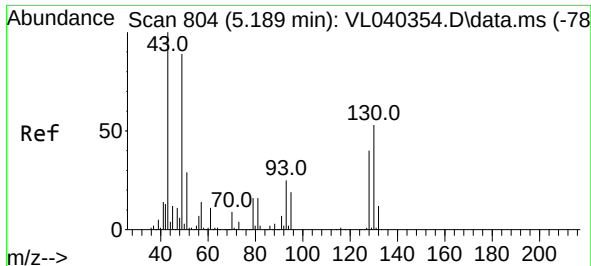
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.179	49	1005850	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	6.642	114	2729808	10.000	ppbv	-0.01
55) Chlorobenzene-d5	11.458	117	2437759	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.770	95	1929875	9.573	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.700%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.710	85	11238	0.062	ppbv	88
3) Chlorodifluoromethane	2.661	51	3977	0.030	ppbv	92
9) Propene	2.687	41	9467	0.182	ppbv	84
13) Ethanol	3.237	45	52733	12.165	ppbv	96
15) Acetone	3.459	43	331758	2.329	ppbv	92
19) Isopropyl Alcohol	3.578	45	13022	0.200	ppbv #	90
20) Methylene Chloride	3.915	84	15448	0.272	ppbv	98
23) Vinyl Acetate	4.603	43	2855	0.079	ppbv #	75
26) Hexane	5.205	57	6406	0.063	ppbv #	48
29) Chloroform	5.259	83	7672	0.043	ppbv	97
34) 2-Butanone	4.787	43	28611	0.194	ppbv #	85
39) 1,2-Dichloropropane	6.642	63	673238	7.682	ppbv #	24
41) Tetrahydrofuran	5.568	42	2484	0.031	ppbv #	34
52) Tetrachloroethene	10.600	164	2506	0.036	ppbv #	40

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

Quant Time: Apr 20 05:14:31 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041323AIR.M
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QLast Update : Thu Apr 13 14:37:02 2023
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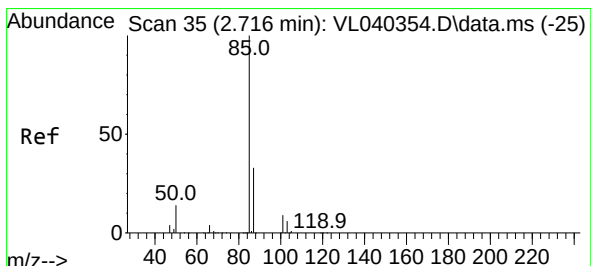
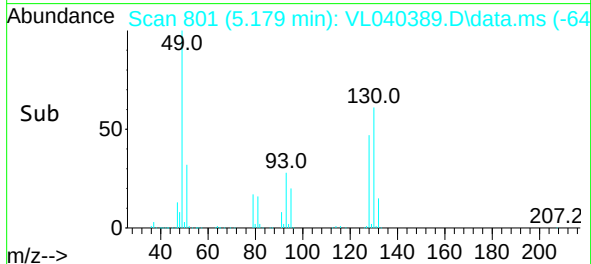
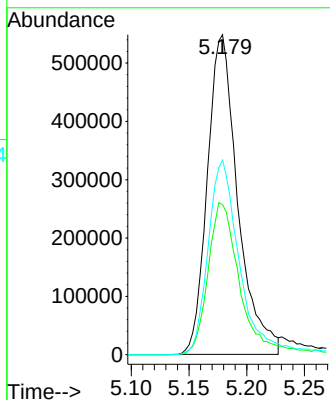
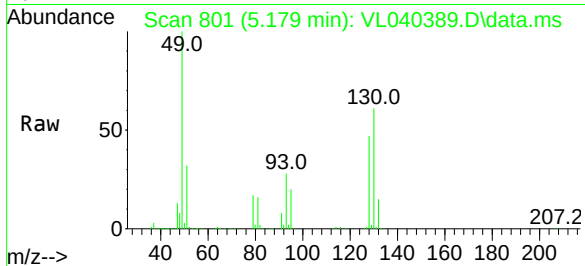




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.179 min Scan# 80
Delta R.T. -0.010 min
Lab File: VL040389.D
Acq: 19 Apr 2023 21:06

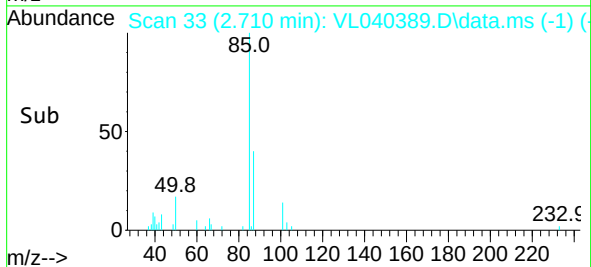
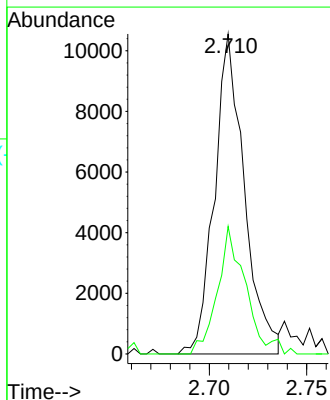
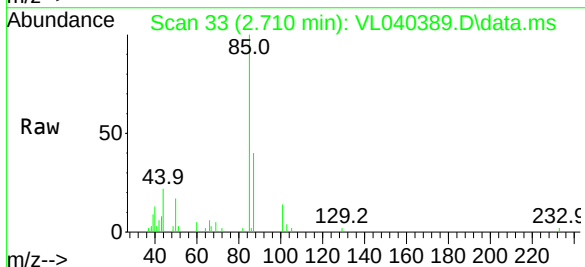
Instrument :
MSVOA_L
ClientSampleId :
VP-1A

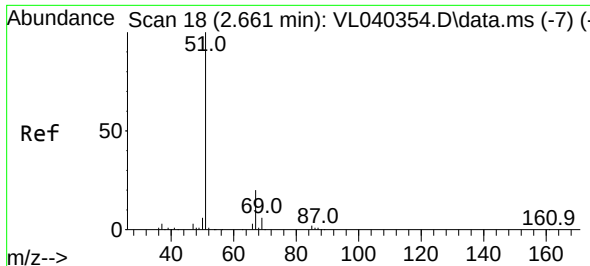
Tgt Ion: 49 Resp: 1005850
Ion Ratio Lower Upper
49 100
128 51.7 23.7 71.1
130 64.9 29.9 89.8



#2
Dichlorodifluoromethane
Concen: 0.062 ppbv
RT: 2.710 min Scan# 33
Delta R.T. -0.006 min
Lab File: VL040389.D
Acq: 19 Apr 2023 21:06

Tgt Ion: 85 Resp: 11238
Ion Ratio Lower Upper
85 100
87 39.8 26.6 40.0

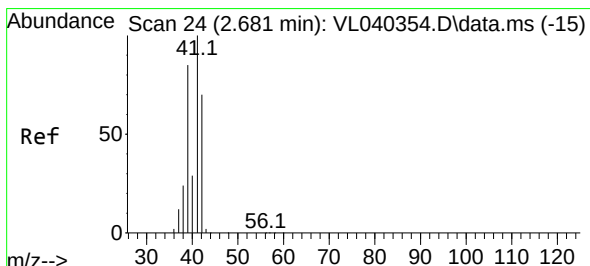
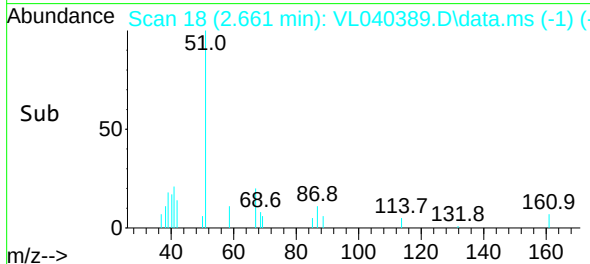
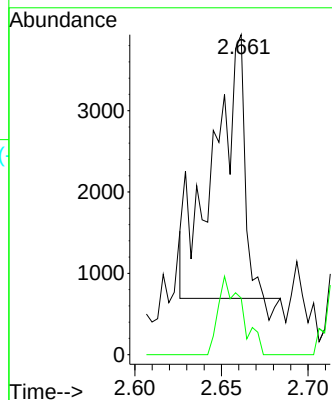
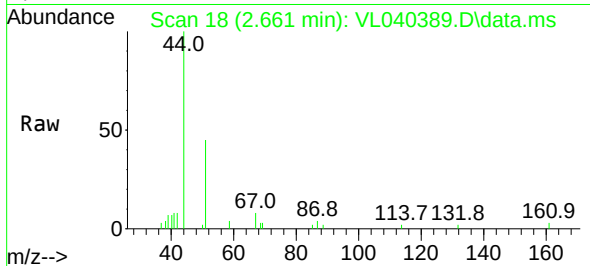




#3
Chlorodifluoromethane
Concen: 0.030 ppbv
RT: 2.661 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL040389.D
Acq: 19 Apr 2023 21:06

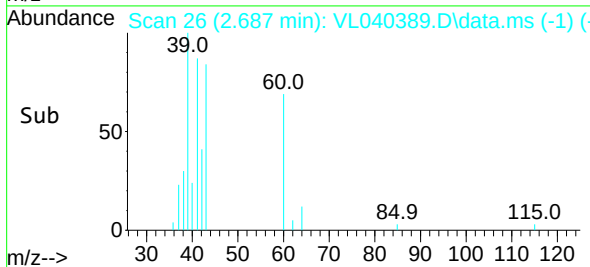
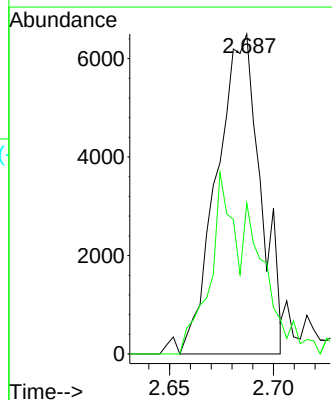
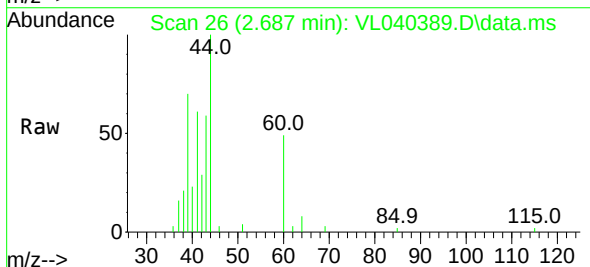
Instrument :
MSVOA_L
ClientSampleId :
VP-1A

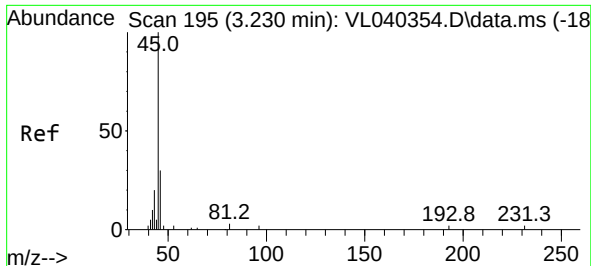
Tgt Ion: 51 Resp: 3977
Ion Ratio Lower Upper
51 100
67 23.1 15.5 23.3



#9
Propene
Concen: 0.182 ppbv
RT: 2.687 min Scan# 26
Delta R.T. 0.006 min
Lab File: VL040389.D
Acq: 19 Apr 2023 21:06

Tgt Ion: 41 Resp: 9467
Ion Ratio Lower Upper
41 100
42 57.7 56.5 84.7

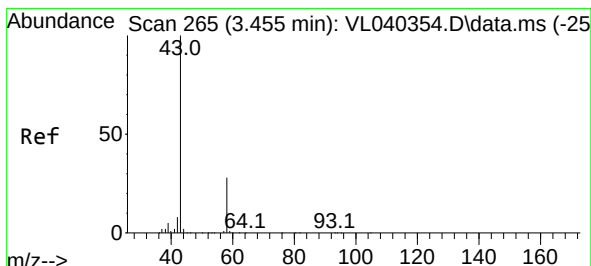
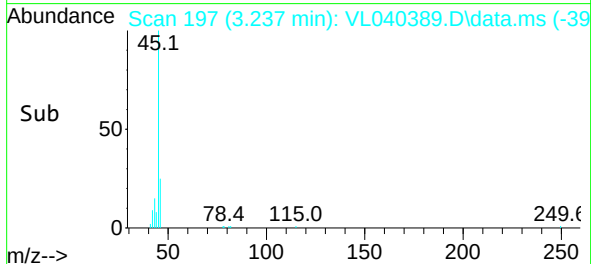
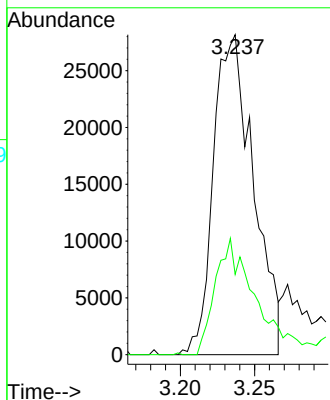
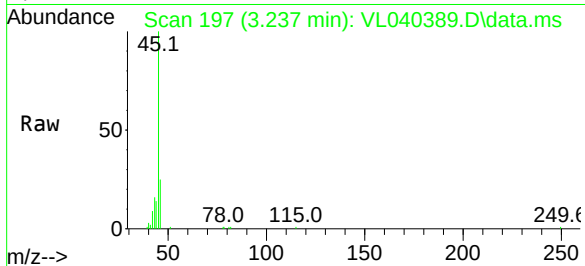




#13
 Ethanol
 Concen: 12.165 ppbv
 RT: 3.237 min Scan# 19
 Delta R.T. 0.007 min
 Lab File: VL040389.D
 Acq: 19 Apr 2023 21:06

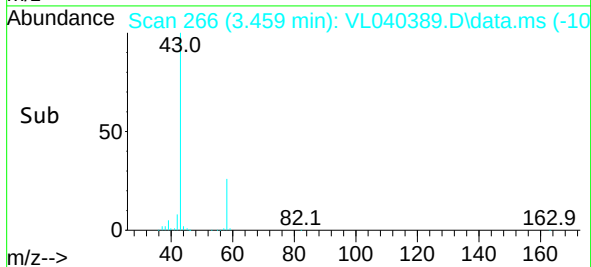
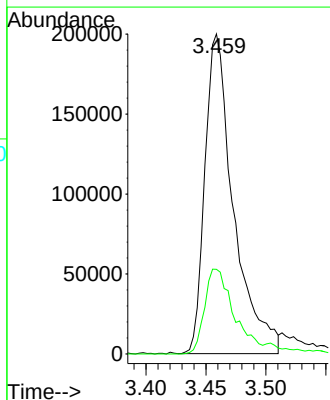
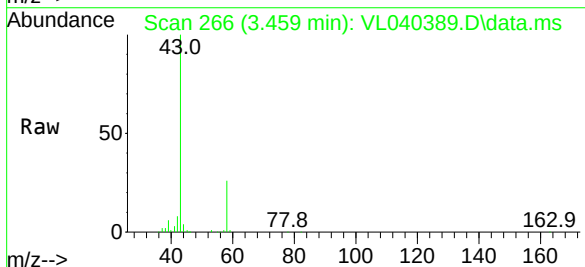
Instrument :
 MSVOA_L
 ClientSampleId :
 VP-1A

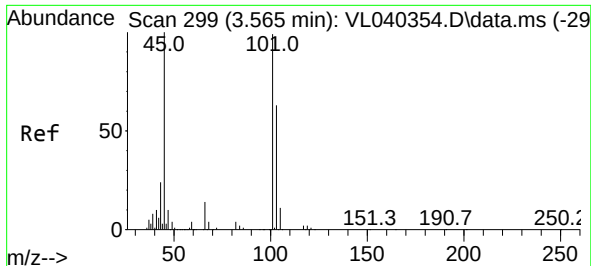
Tgt Ion: 45 Resp: 52733
 Ion Ratio Lower Upper
 45 100
 46 41.0 15.3 61.3



#15
 Acetone
 Concen: 2.329 ppbv
 RT: 3.459 min Scan# 266
 Delta R.T. 0.004 min
 Lab File: VL040389.D
 Acq: 19 Apr 2023 21:06

Tgt Ion: 43 Resp: 331758
 Ion Ratio Lower Upper
 43 100
 58 31.7 22.2 33.2





#19

Isopropyl Alcohol

Concen: 0.200 ppbv

RT: 3.578 min Scan# 30

Delta R.T. 0.013 min

Lab File: VL040389.D

Acq: 19 Apr 2023 21:06

Instrument :

MSVOA_L

ClientSampleId :

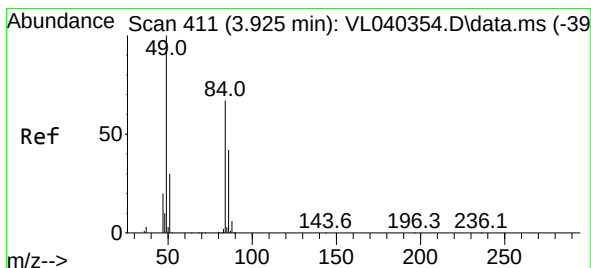
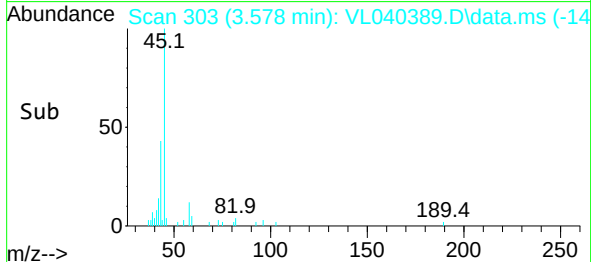
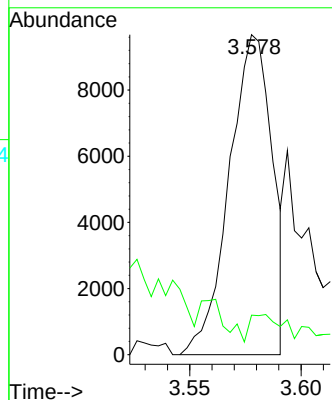
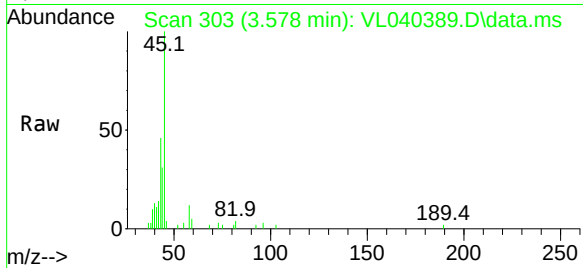
VP-1A

Tgt Ion: 45 Resp: 13022

Ion Ratio Lower Upper

45 100

58 0.0 2.6 4.0#



#20

Methylene Chloride

Concen: 0.272 ppbv

RT: 3.915 min Scan# 408

Delta R.T. -0.010 min

Lab File: VL040389.D

Acq: 19 Apr 2023 21:06

Tgt Ion: 84 Resp: 15448

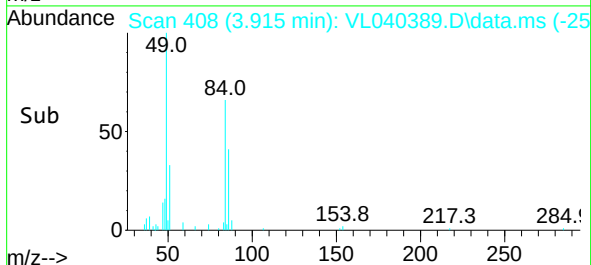
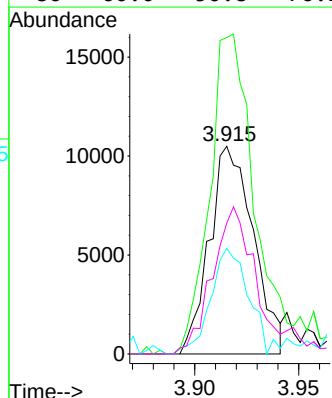
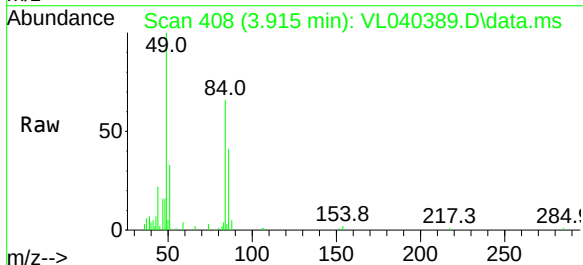
Ion Ratio Lower Upper

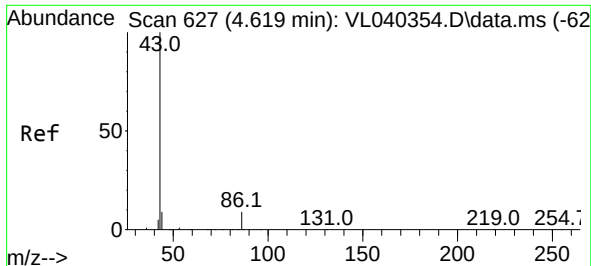
84 100

49 150.0 120.1 180.1

51 48.2 36.3 54.5

86 60.0 50.8 76.2

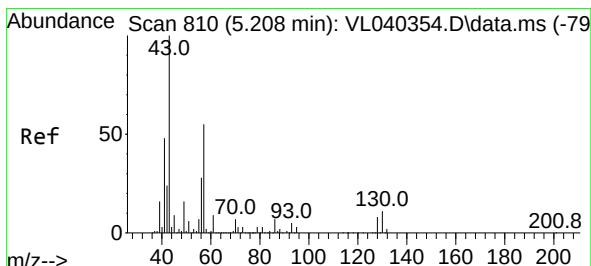
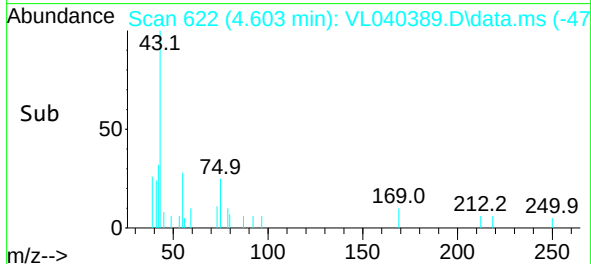
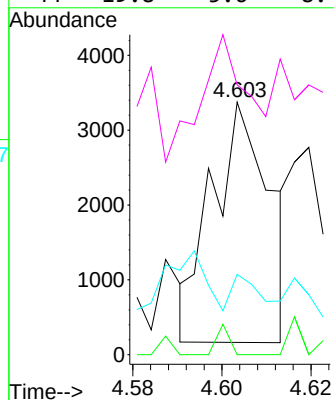
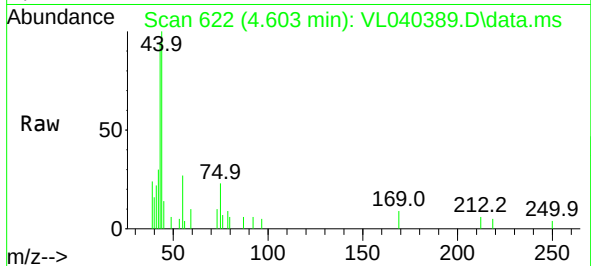




#23
 Vinyl Acetate
 Concen: 0.079 ppbv
 RT: 4.603 min Scan# 61
 Delta R.T. -0.016 min
 Lab File: VL040389.D
 Acq: 19 Apr 2023 21:06

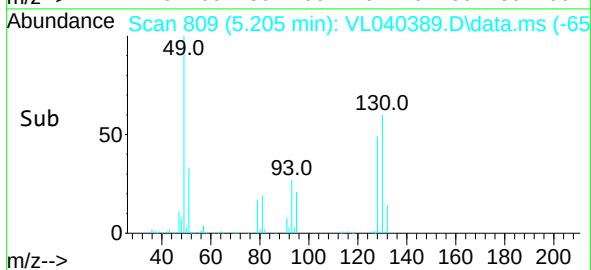
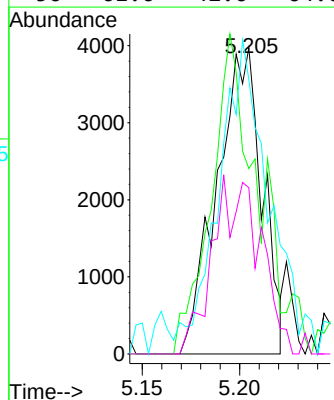
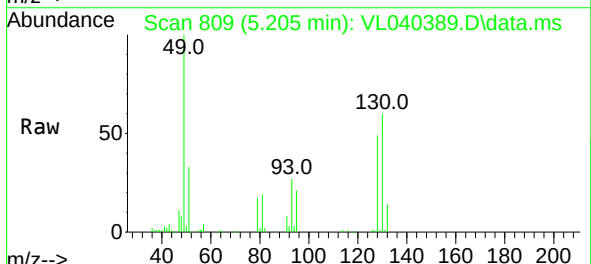
Instrument :
 MSVOA_L
 ClientSampleId :
 VP-1A

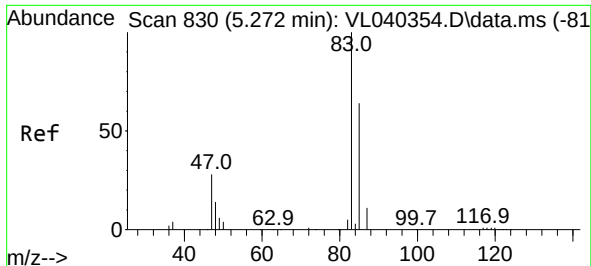
Tgt Ion:	43	Resp:	2855
Ion	Ratio	Lower	Upper
43	100		
86	0.0	6.0	9.0#
42	14.7	6.4	9.6#
44	19.8	5.6	8.4#



#26
 Hexane
 Concen: 0.063 ppbv
 RT: 5.205 min Scan# 809
 Delta R.T. -0.003 min
 Lab File: VL040389.D
 Acq: 19 Apr 2023 21:06

Tgt Ion:	57	Resp:	6406
Ion	Ratio	Lower	Upper
57	100		
41	113.4	74.8	112.2#
43	117.5	192.7	289.1#
56	61.6	42.6	64.0





#29

Chloroform

Concen: 0.043 ppbv

RT: 5.259 min Scan# 81

Delta R.T. -0.013 min

Lab File: VL040389.D

Acq: 19 Apr 2023 21:06

Instrument :

MSVOA_L

ClientSampleId :

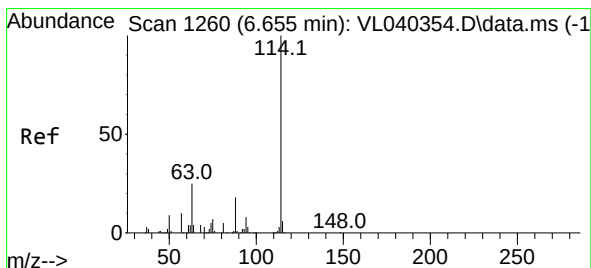
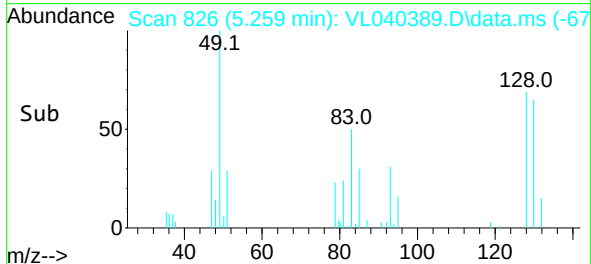
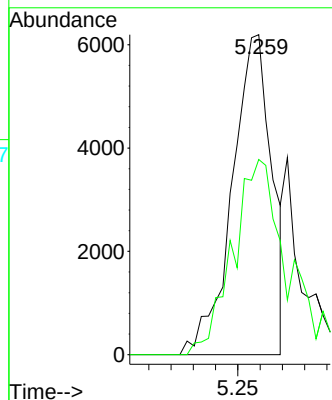
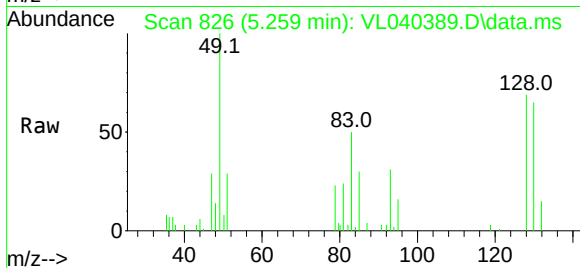
VP-1A

Tgt Ion: 83 Resp: 7672

Ion Ratio Lower Upper

83 100

85 61.0 51.0 76.4



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.642 min Scan# 1256

Delta R.T. -0.013 min

Lab File: VL040389.D

Acq: 19 Apr 2023 21:06

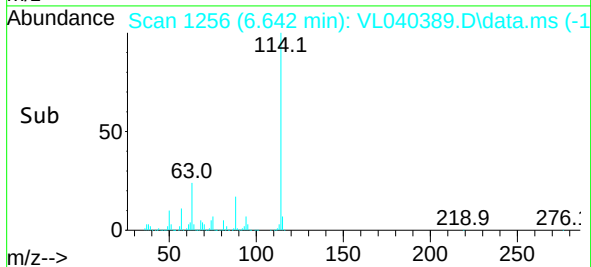
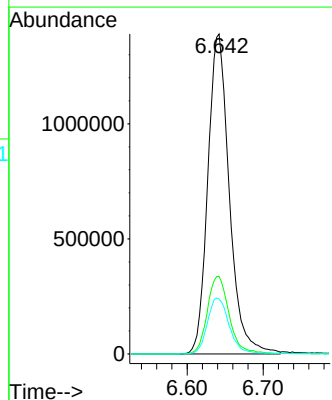
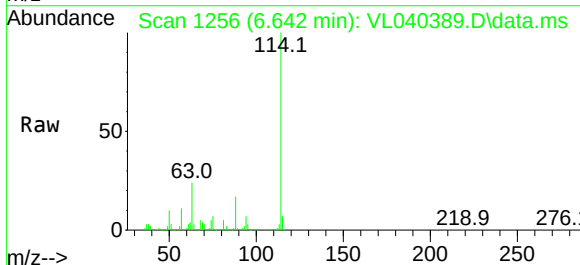
Tgt Ion: 114 Resp: 2729808

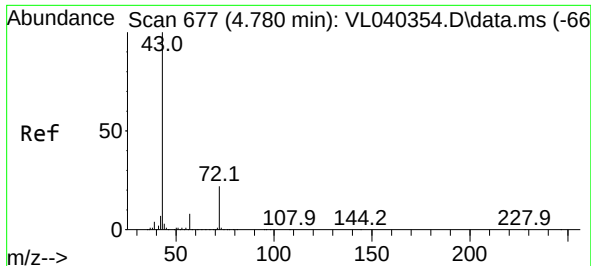
Ion Ratio Lower Upper

114 100

63 24.9 21.4 32.0

88 17.9 14.6 22.0

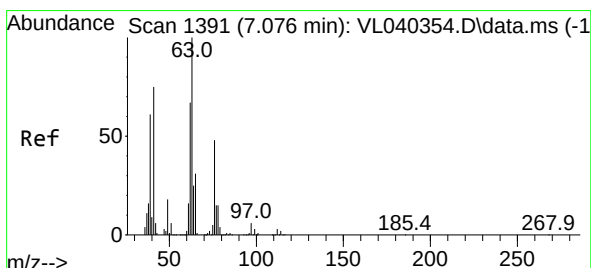
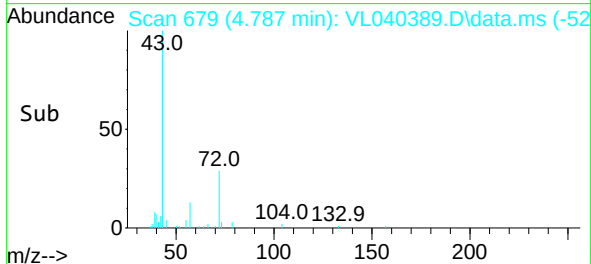
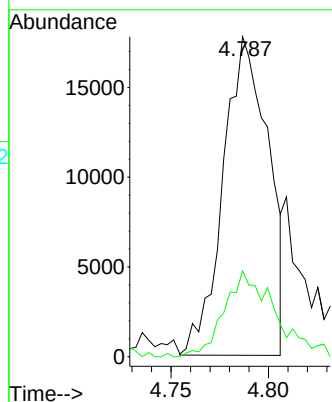
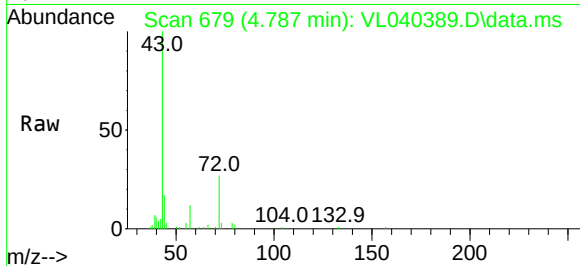




#34
2-Butanone
Concen: 0.194 ppbv
RT: 4.787 min Scan# 61
Delta R.T. 0.007 min
Lab File: VL040389.D
Acq: 19 Apr 2023 21:06

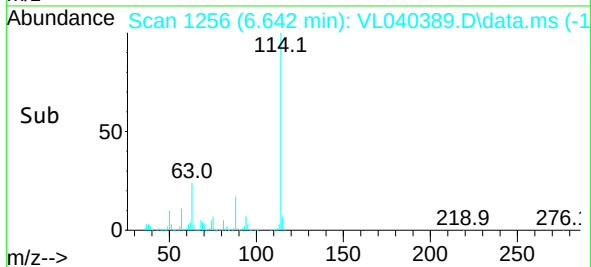
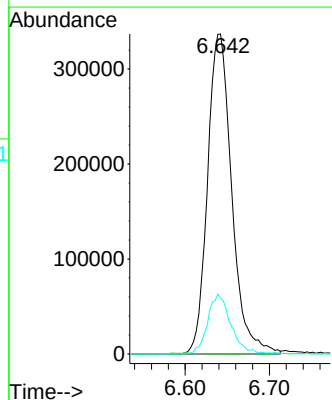
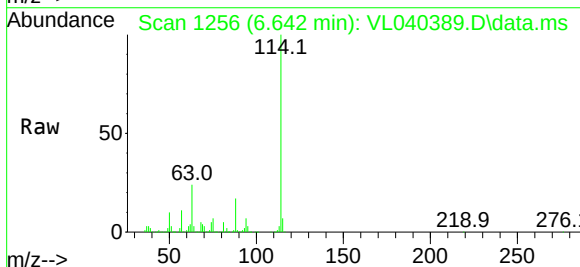
Instrument :
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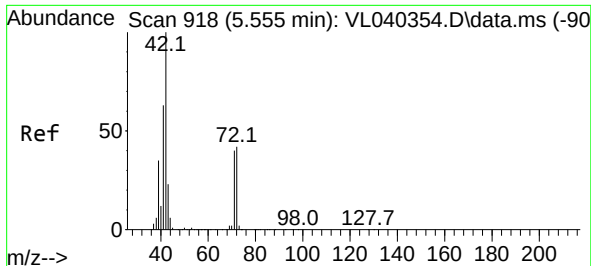
Tgt Ion: 43 Resp: 28611
Ion Ratio Lower Upper
43 100
72 30.0 18.4 27.6#



#39
1,2-Dichloropropane
Concen: 7.682 ppbv
RT: 6.642 min Scan# 1256
Delta R.T. -0.434 min
Lab File: VL040389.D
Acq: 19 Apr 2023 21:06

Tgt Ion: 63 Resp: 673238
Ion Ratio Lower Upper
63 100
41 0.0 59.6 89.4#
62 17.4 53.9 80.9#





#41

Tetrahydrofuran

Concen: 0.031 ppbv

RT: 5.568 min Scan# 91

Delta R.T. 0.013 min

Lab File: VL040389.D

Acq: 19 Apr 2023 21:06

Instrument :

MSVOA_L

ClientSampleId :

VP-1A

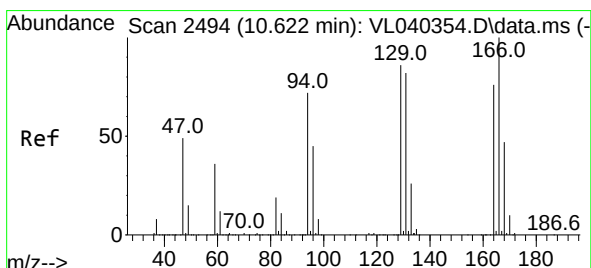
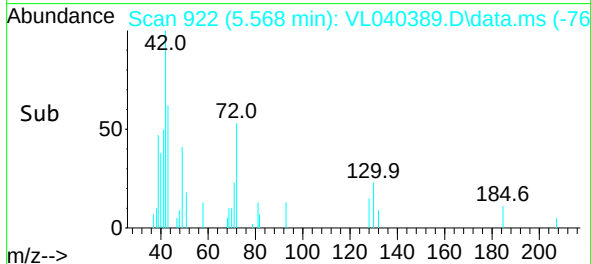
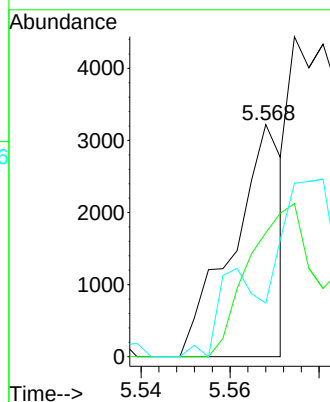
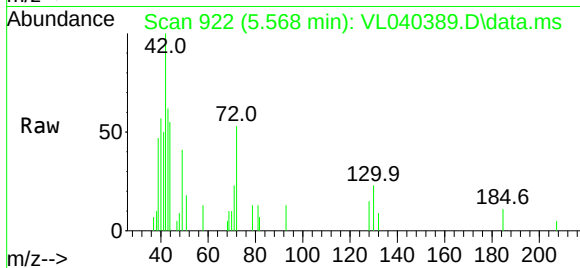
Tgt Ion: 42 Resp: 2484

Ion Ratio Lower Upper

42 100

72 0.0 33.7 50.5#

71 0.0 32.2 48.2#



#52

Tetrachloroethene

Concen: 0.036 ppbv

RT: 10.600 min Scan# 2487

Delta R.T. -0.022 min

Lab File: VL040389.D

Acq: 19 Apr 2023 21:06

Tgt Ion: 164 Resp: 2506

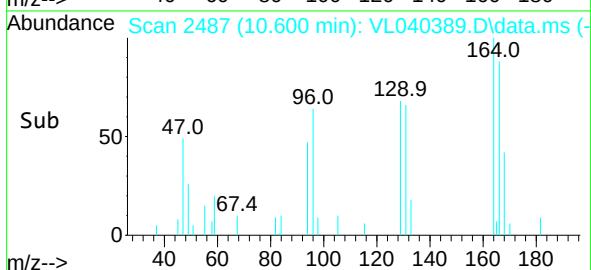
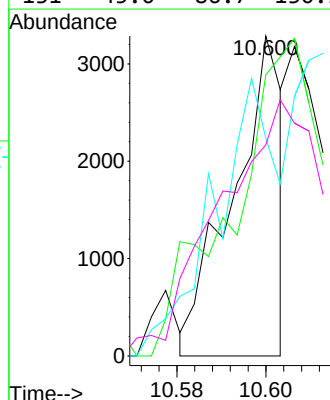
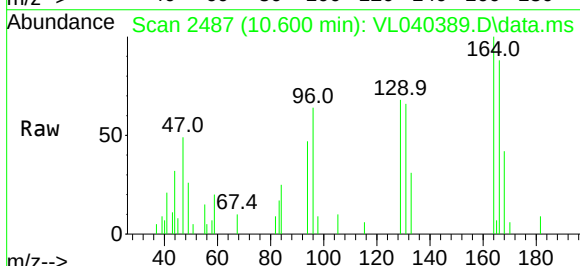
Ion Ratio Lower Upper

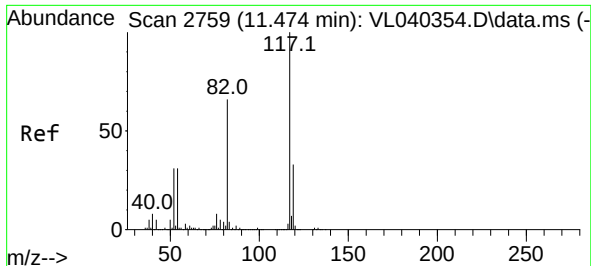
164 100

166 56.3 105.2 157.8#

129 53.3 90.3 135.5#

131 45.0 86.7 130.1#

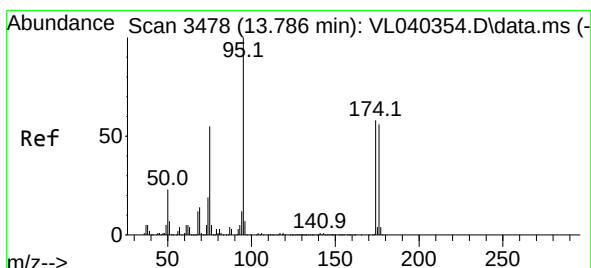
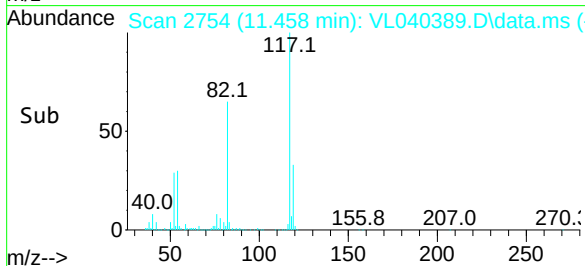
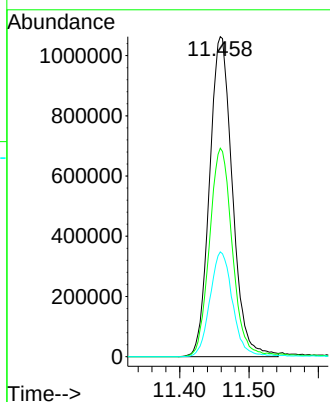
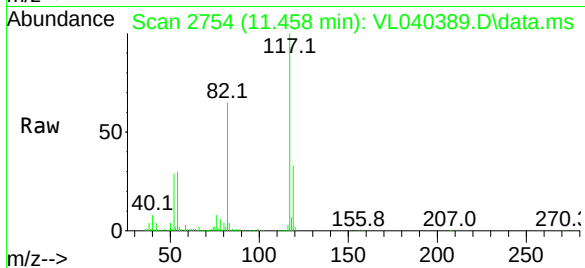




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.458 min Scan# 21
Delta R.T. -0.016 min
Lab File: VL040389.D
Acq: 19 Apr 2023 21:06

Instrument :
MSVOA_L
ClientSampleId :
VP-1A

Tgt Ion:117 Resp: 2437759
Ion Ratio Lower Upper
117 100
82 66.6 52.5 78.7
119 32.7 24.3 36.5



#68
1-Bromo-4-Fluorobenzene
Concen: 9.573 ppbv
RT: 13.770 min Scan# 3473
Delta R.T. -0.016 min
Lab File: VL040389.D
Acq: 19 Apr 2023 21:06

Tgt Ion: 95 Resp: 1929875
Ion Ratio Lower Upper
95 100
174 60.2 47.2 70.8
175 4.4 3.5 5.3

