

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092524\
 Data File : VL041623.D
 Acq On : 25 Sep 2024 14:35
 Operator : SY/MD
 Sample : VIBLK
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Sep 26 01:19:43 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 17 09:12:21 2024
 Response via : Initial Calibration

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

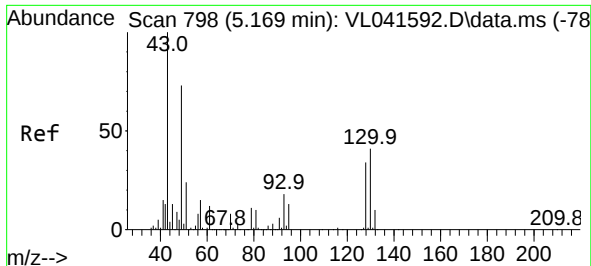
Internal Standards						
1) Bromochloromethane	5.169	49	1038284	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.635	114	2889408	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.455	117	2503378	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.764	95	1782355	9.672	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.700%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.700	85	5198	0.035	ppbv	96
3) Chlorodifluoromethane	2.652	51	5632	0.045	ppbv #	89
4) Chloromethane	2.787	50	2210	0.032	ppbv	89
9) Propene	2.665	41	6850	0.129	ppbv	86
12) 1,1,2-Trichlorotrifluo...	4.041	101	4136	0.036	ppbv #	75
13) Ethanol	3.230	45	248	0.062	ppbv #	37
15) Acetone	3.465	43	10327	0.079	ppbv #	48
18) 1,1-Dichloroethene	3.854	96	2228	0.046	ppbv #	75
20) Methylene Chloride	3.912	84	4682	0.096	ppbv #	92
21) Allyl Chloride	3.970	41	2931	0.039	ppbv #	53
31) cis-1,2-Dichloroethene	5.054	61	3196	0.034	ppbv #	85
39) 1,2-Dichloropropane	6.632	63	717217	8.786	ppbv #	24
56) 1,1,1,2-Tetrachloroethane	11.487	131	3054	0.031	ppbv #	40
78) Hexachloro-1,3-Butadiene	22.628	225	4373	0.031	ppbv #	12

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

Instrument :
MSVOA_L
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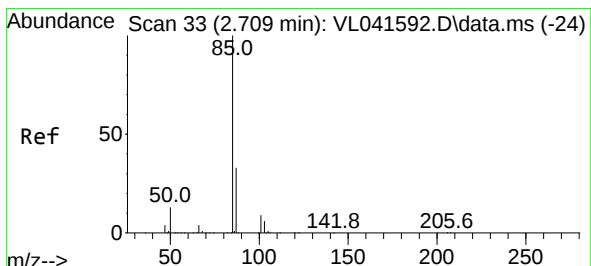
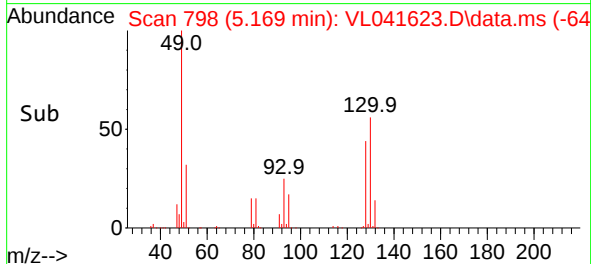
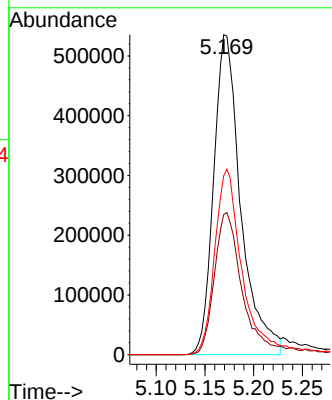
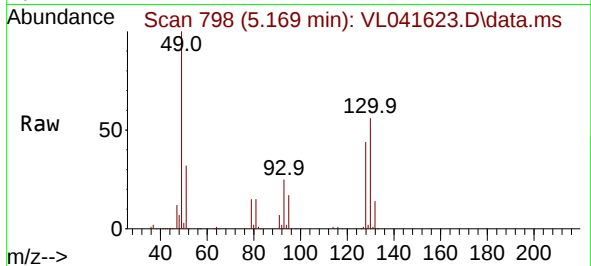




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.169 min Scan# 798
 Delta R.T. 0.000 min
 Lab File: VL041623.D
 Acq: 25 Sep 2024 14:35

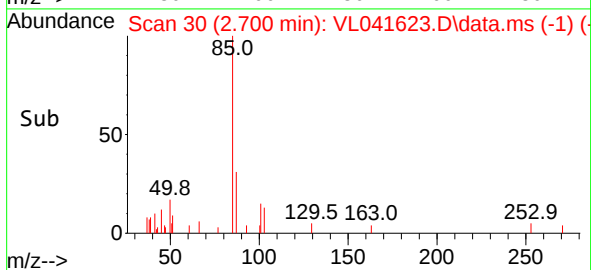
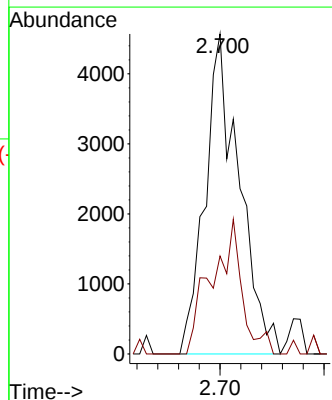
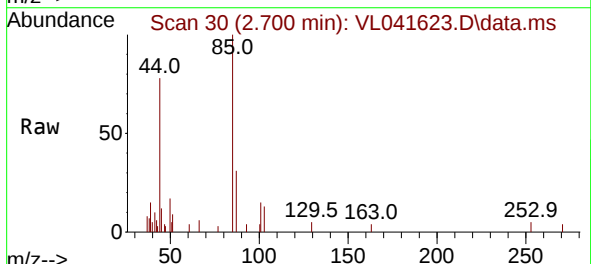
Instrument :
 MSVOA_L
 ClientSampleId :

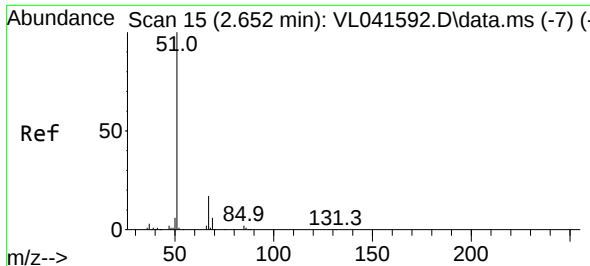
Tgt Ion: 49 Resp: 1038284
 Ion Ratio Lower Upper
 49 100
 128 48.0 23.8 71.5
 130 61.1 30.4 91.3



#2
 Dichlorodifluoromethane
 Concen: 0.035 ppbv
 RT: 2.700 min Scan# 30
 Delta R.T. -0.009 min
 Lab File: VL041623.D
 Acq: 25 Sep 2024 14:35

Tgt Ion: 85 Resp: 5198
 Ion Ratio Lower Upper
 85 100
 87 30.6 26.3 39.5

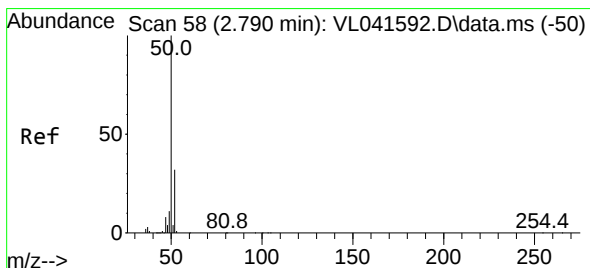
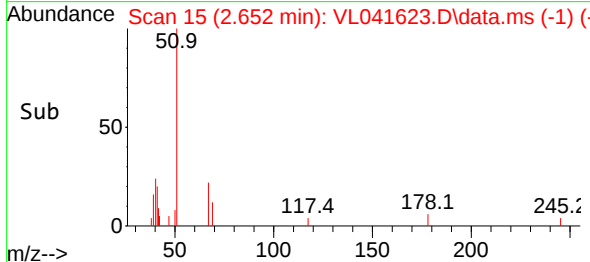
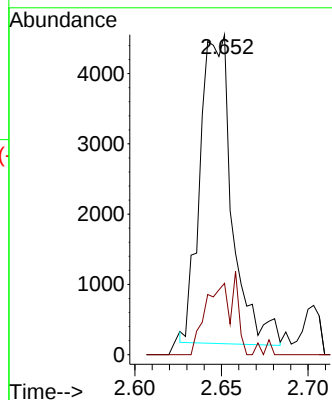
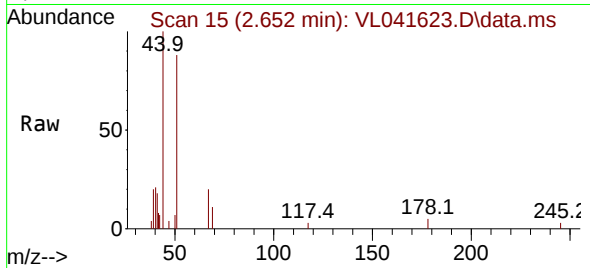




#3
Chlorodifluoromethane
Concen: 0.045 ppbv
RT: 2.652 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL041623.D
Acq: 25 Sep 2024 14:35

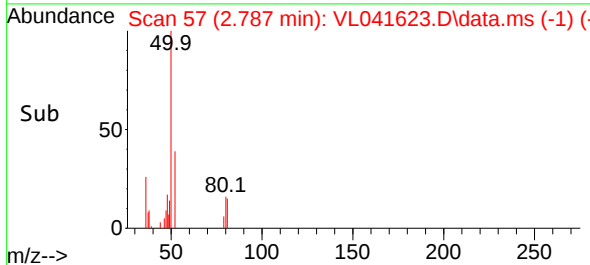
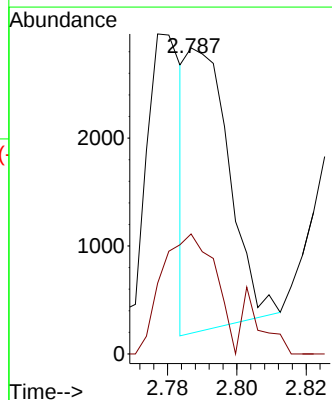
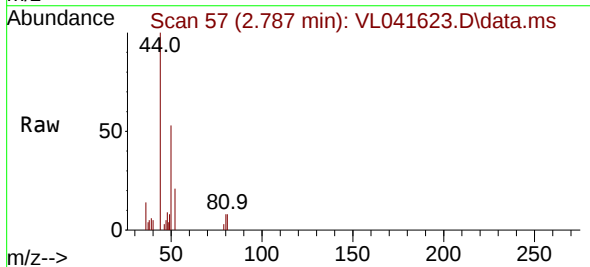
Instrument :
MSVOA_L
ClientSampleId :

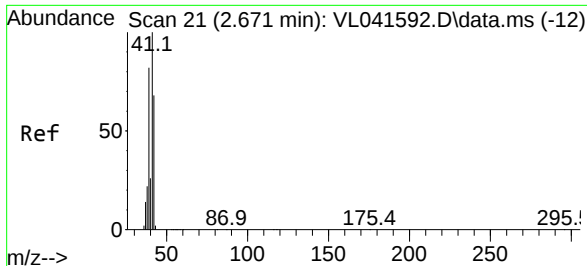
Tgt Ion: 51 Resp: 5632
Ion Ratio Lower Upper
51 100
67 22.2 14.1 21.1#



#4
Chloromethane
Concen: 0.032 ppbv
RT: 2.787 min Scan# 57
Delta R.T. -0.003 min
Lab File: VL041623.D
Acq: 25 Sep 2024 14:35

Tgt Ion: 50 Resp: 2210
Ion Ratio Lower Upper
50 100
52 37.9 25.4 38.2





#9

Propene

Concen: 0.129 ppbv

RT: 2.665 min Scan# 19

Delta R.T. -0.006 min

Lab File: VL041623.D

Acq: 25 Sep 2024 14:35

Instrument :

MSVOA_L

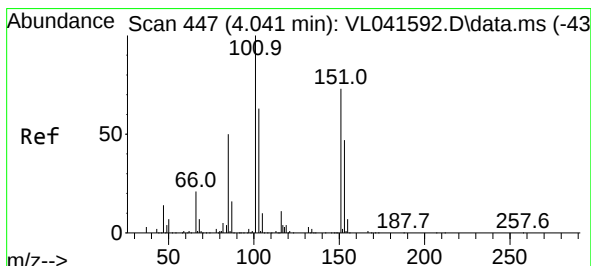
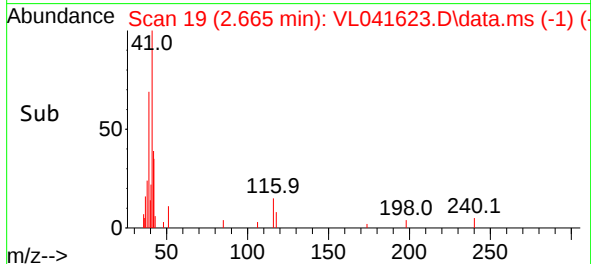
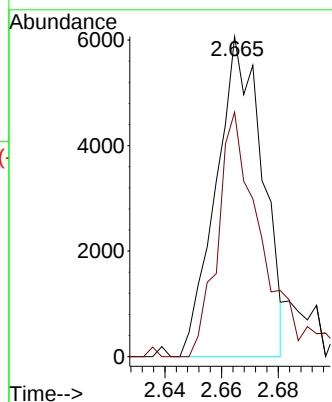
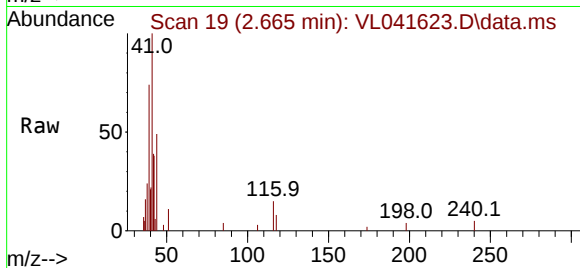
ClientSampleId :

Tgt Ion: 41 Resp: 6850

Ion Ratio Lower Upper

41 100

42 80.3 55.2 82.8



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.036 ppbv

RT: 4.041 min Scan# 447

Delta R.T. 0.000 min

Lab File: VL041623.D

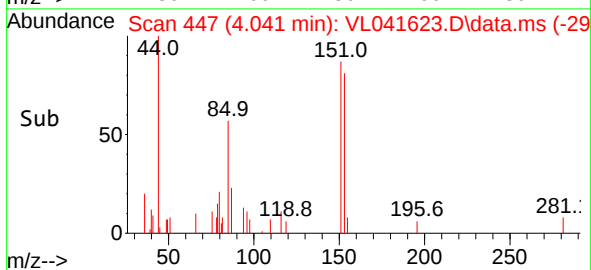
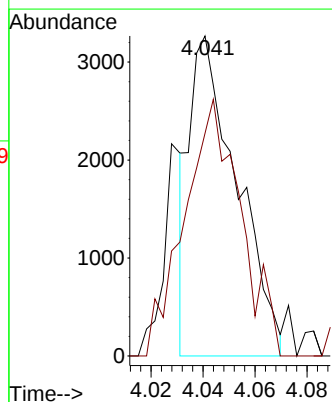
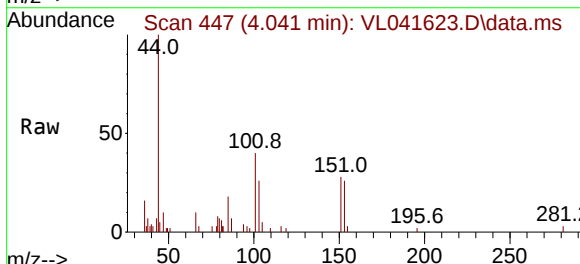
Acq: 25 Sep 2024 14:35

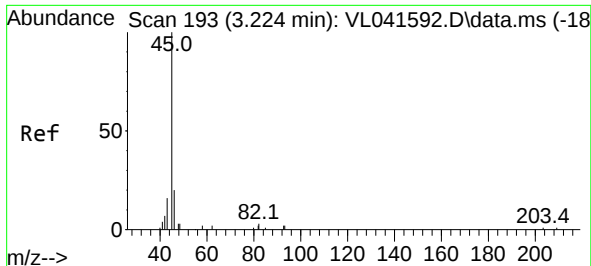
Tgt Ion: 101 Resp: 4136

Ion Ratio Lower Upper

101 100

151 95.1 59.4 89.2#

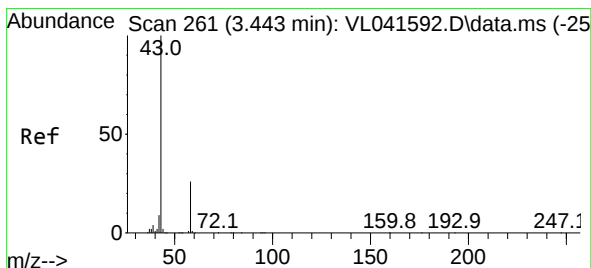
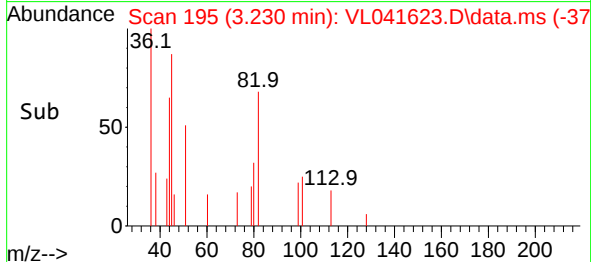
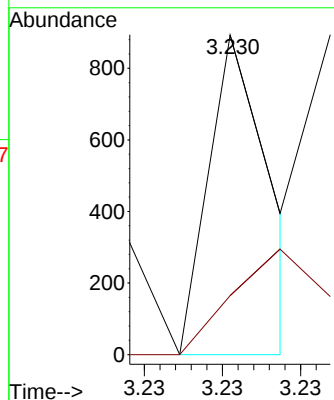
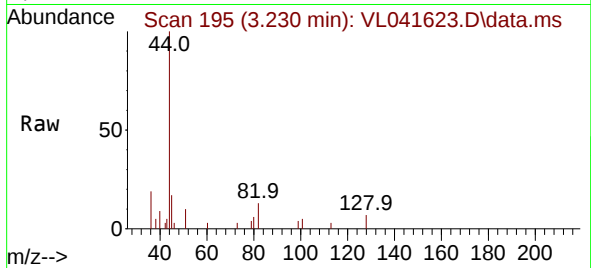




#13
Ethanol
Concen: 0.062 ppbv
RT: 3.230 min Scan# 193
Delta R.T. 0.007 min
Lab File: VL041623.D
Acq: 25 Sep 2024 14:35

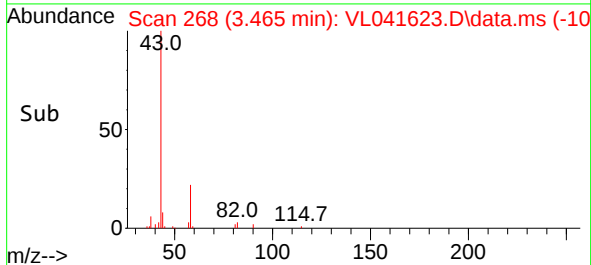
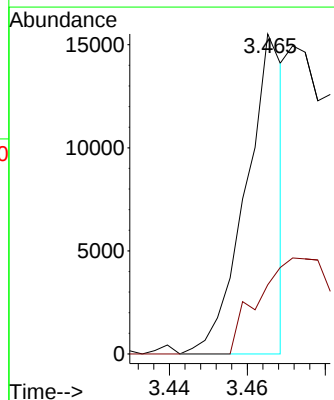
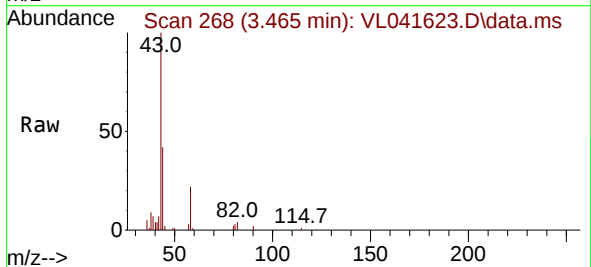
Instrument :
MSVOA_L
ClientSampleId :

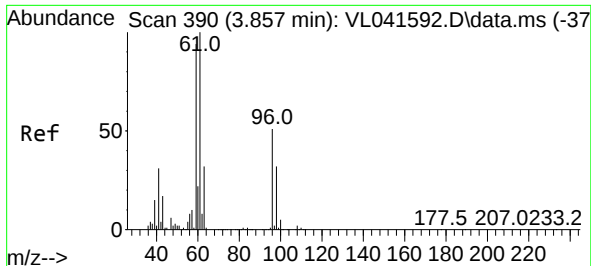
Tgt Ion: 45 Resp: 248
Ion Ratio Lower Upper
45 100
46 0.0 15.2 60.8#



#15
Acetone
Concen: 0.079 ppbv
RT: 3.465 min Scan# 268
Delta R.T. 0.023 min
Lab File: VL041623.D
Acq: 25 Sep 2024 14:35

Tgt Ion: 43 Resp: 10327
Ion Ratio Lower Upper
43 100
58 0.0 21.5 32.3#

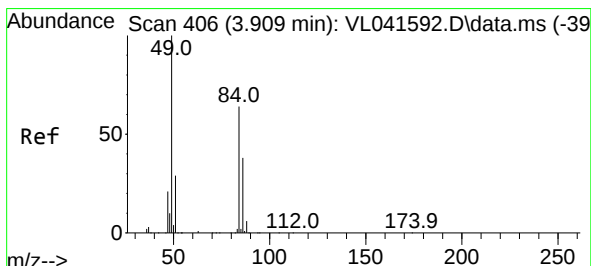
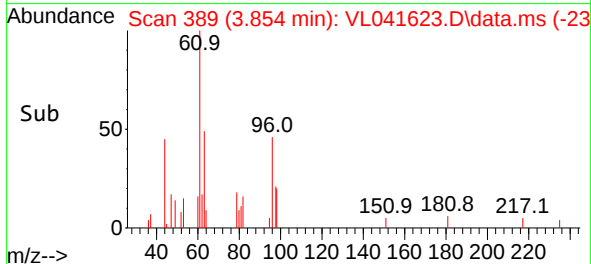
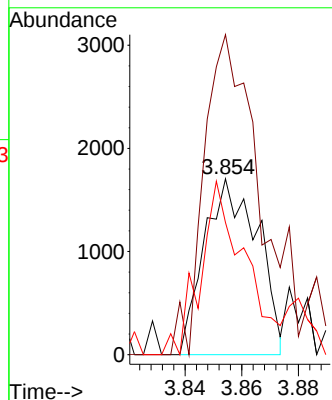
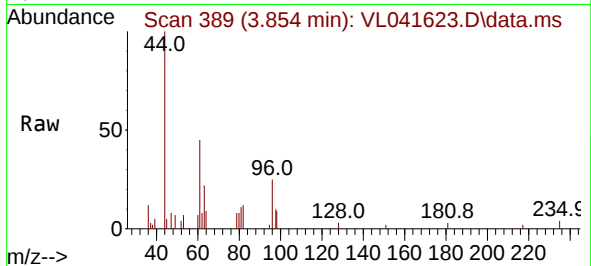




#18
1,1-Dichloroethene
Concen: 0.046 ppbv
RT: 3.854 min Scan# 31
Delta R.T. -0.003 min
Lab File: VL041623.D
Acq: 25 Sep 2024 14:35

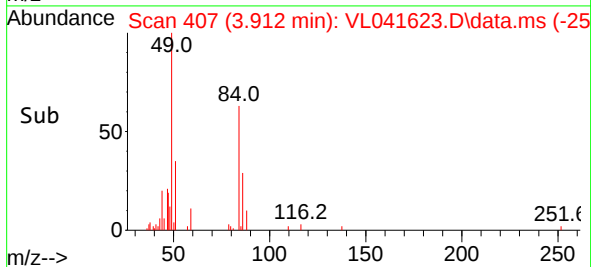
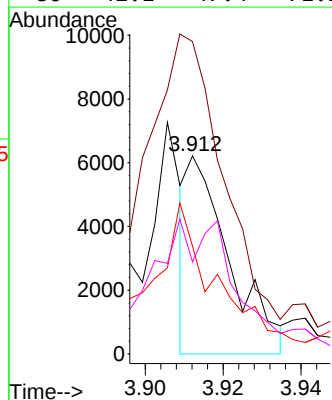
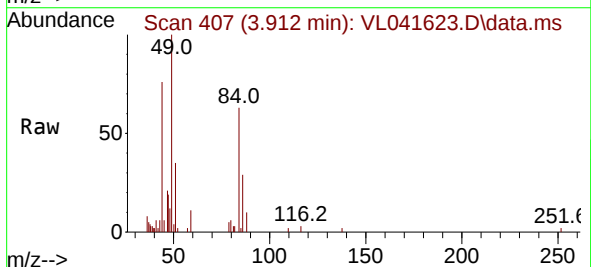
Instrument :
MSVOA_L
ClientSampleId :

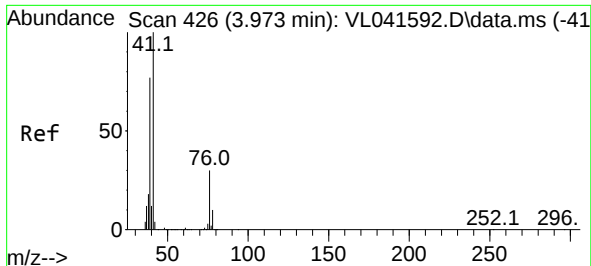
Tgt Ion: 96 Resp: 2228
Ion Ratio Lower Upper
96 100
61 152.0 155.6 233.4#
98 75.2 50.6 75.8



#20
Methylene Chloride
Concen: 0.096 ppbv
RT: 3.912 min Scan# 407
Delta R.T. 0.003 min
Lab File: VL041623.D
Acq: 25 Sep 2024 14:35

Tgt Ion: 84 Resp: 4682
Ion Ratio Lower Upper
84 100
49 157.8 124.3 186.5
51 50.6 36.3 54.5
86 42.1 47.4 71.2#





#21

Allyl Chloride

Concen: 0.039 ppbv

RT: 3.970 min Scan# 41

Delta R.T. -0.003 min

Lab File: VL041623.D

Acq: 25 Sep 2024 14:35

Instrument :

MSVOA_L

ClientSampleId :

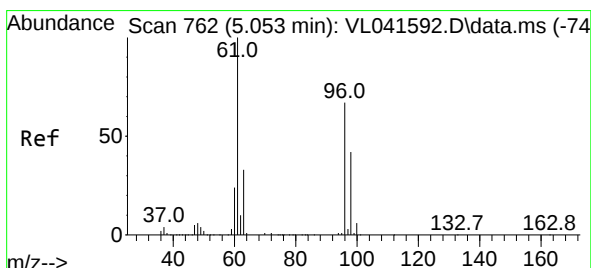
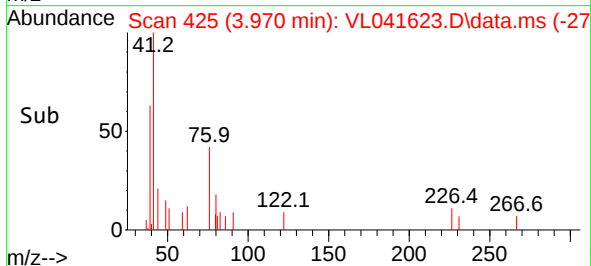
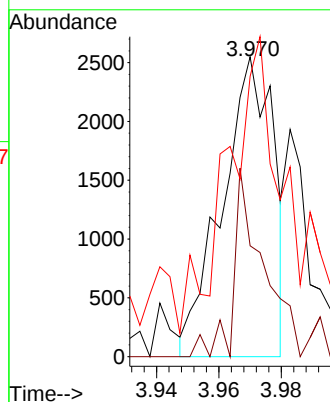
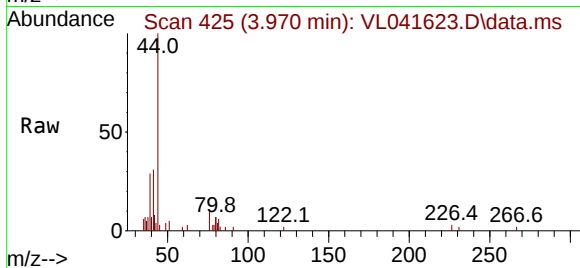
Tgt Ion: 41 Resp: 2931

Ion Ratio Lower Upper

41 100

76 39.2 23.8 35.6#

39 131.3 63.9 95.9#



#31

cis-1,2-Dichloroethene

Concen: 0.034 ppbv

RT: 5.054 min Scan# 762

Delta R.T. 0.000 min

Lab File: VL041623.D

Acq: 25 Sep 2024 14:35

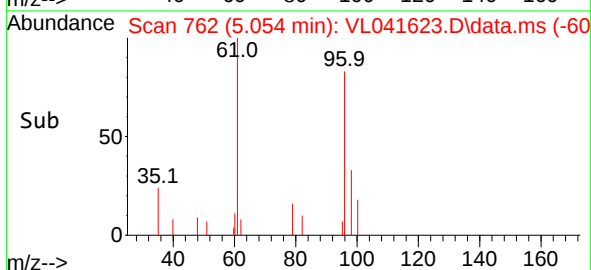
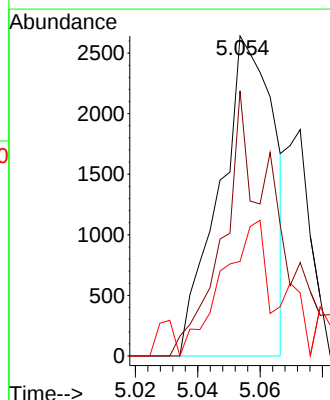
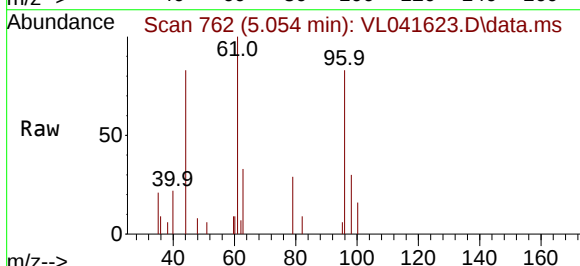
Tgt Ion: 61 Resp: 3196

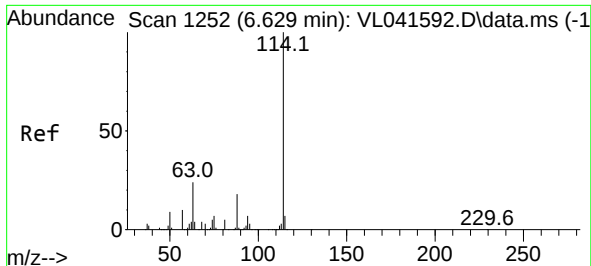
Ion Ratio Lower Upper

61 100

96 76.6 53.5 80.3

98 29.6 33.7 50.5#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.635 min Scan# 11

Delta R.T. 0.007 min

Lab File: VL041623.D

Acq: 25 Sep 2024 14:35

Instrument :

MSVOA_L

ClientSampleId :

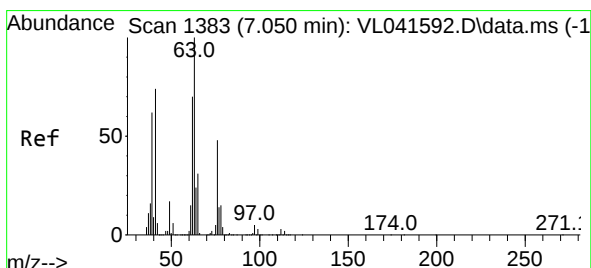
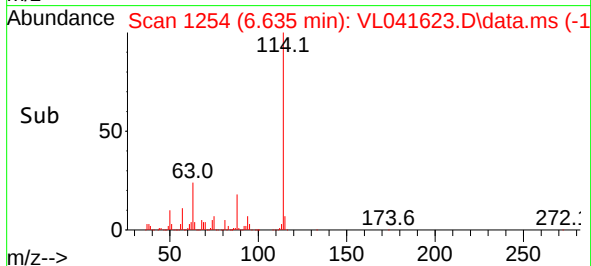
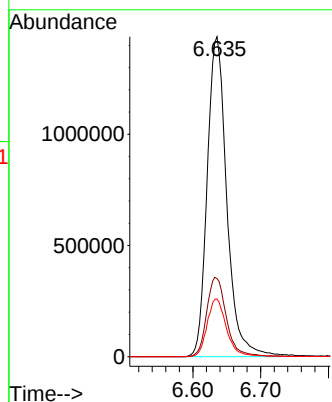
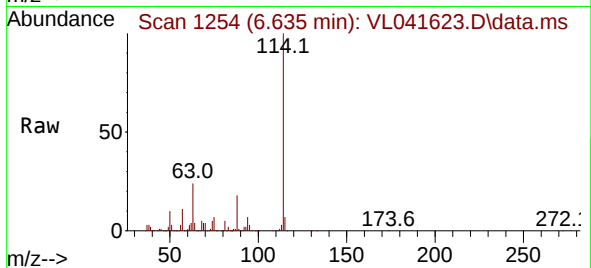
Tgt Ion:114 Resp: 2889408

Ion Ratio Lower Upper

114 100

63 25.2 20.2 30.2

88 18.0 14.2 21.4



#39

1,2-Dichloropropane

Concen: 8.786 ppbv

RT: 6.632 min Scan# 1253

Delta R.T. -0.418 min

Lab File: VL041623.D

Acq: 25 Sep 2024 14:35

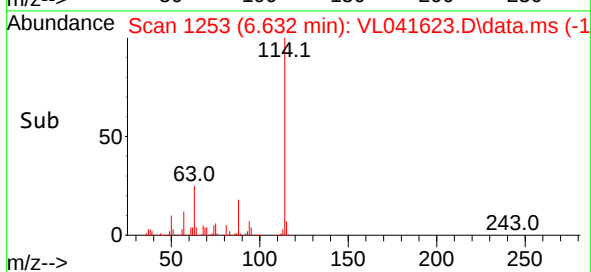
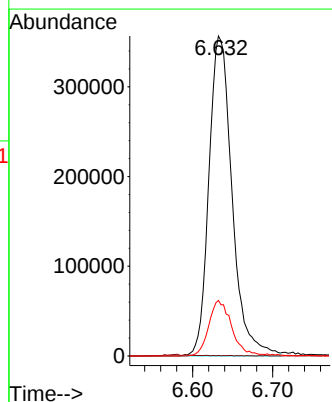
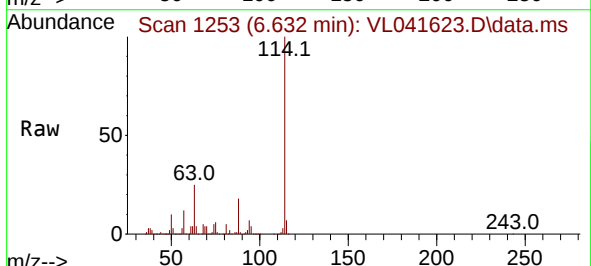
Tgt Ion: 63 Resp: 717217

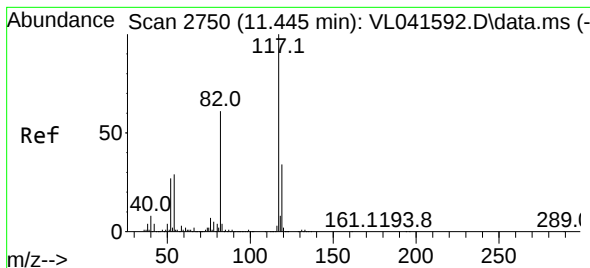
Ion Ratio Lower Upper

63 100

41 0.1 59.5 89.3#

62 17.4 56.2 84.2#





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.455 min Scan# 2750

Delta R.T. 0.010 min

Lab File: VL041623.D

Acq: 25 Sep 2024 14:35

Instrument :

MSVOA_L

ClientSampleId :

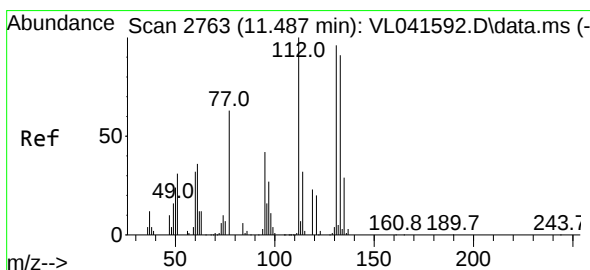
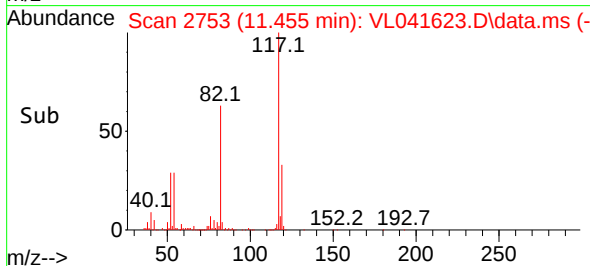
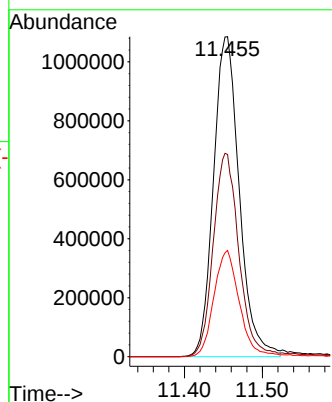
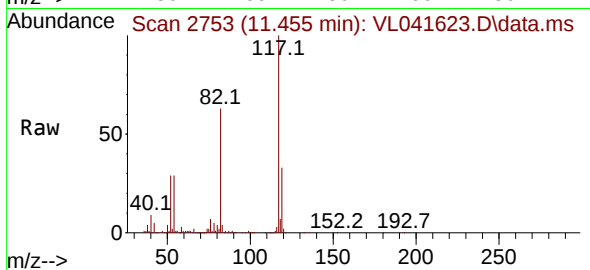
Tgt Ion:117 Resp: 2503378

Ion Ratio Lower Upper

117 100

82 64.3 49.4 74.2

119 33.1 24.4 36.6



#56

1,1,1,2-Tetrachloroethane

Concen: 0.031 ppbv

RT: 11.487 min Scan# 2763

Delta R.T. 0.000 min

Lab File: VL041623.D

Acq: 25 Sep 2024 14:35

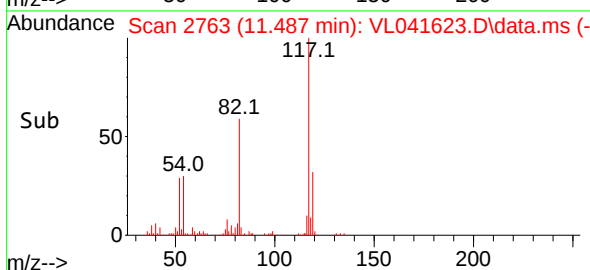
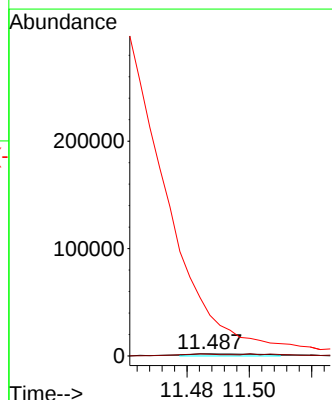
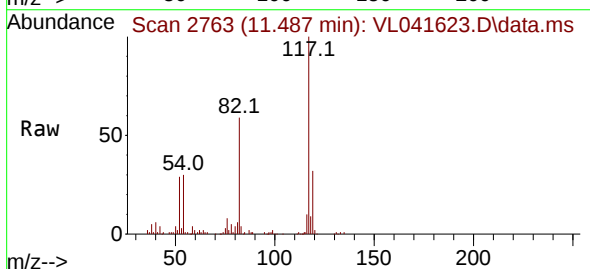
Tgt Ion:131 Resp: 3054

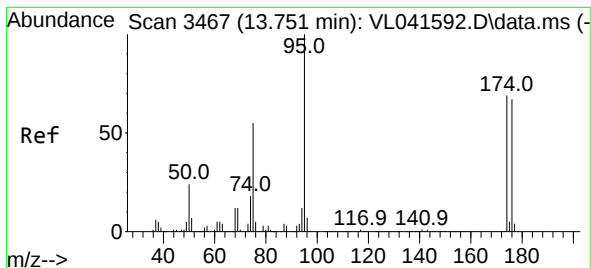
Ion Ratio Lower Upper

131 100

133 142.1 76.6 115.0#

119 0.0 48.5 72.7#

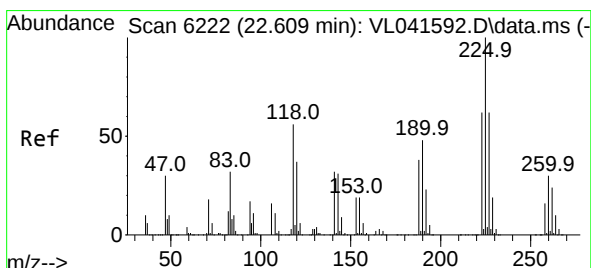
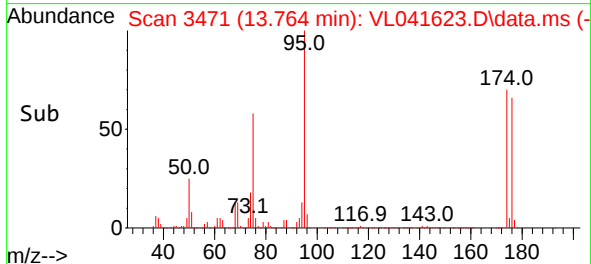
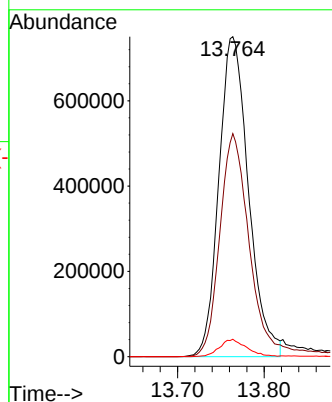
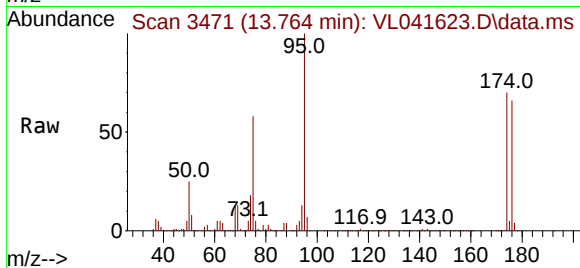




#68
1-Bromo-4-Fluorobenzene
Concen: 9.672 ppbv
RT: 13.764 min Scan# 3467
Delta R.T. 0.013 min
Lab File: VL041623.D
Acq: 25 Sep 2024 14:35

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 95 Resp: 1782355
Ion Ratio Lower Upper
95 100
174 72.9 55.8 83.8
175 5.3 4.1 6.1



#78
Hexachloro-1,3-Butadiene
Concen: 0.031 ppbv
RT: 22.628 min Scan# 6228
Delta R.T. 0.019 min
Lab File: VL041623.D
Acq: 25 Sep 2024 14:35

Tgt Ion: 225 Resp: 4373
Ion Ratio Lower Upper
225 100
223 0.0 50.6 75.8#
227 137.7 50.9 76.3#

