

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121824\
 Data File : VL041804.D
 Acq On : 18 Dec 2024 21:03
 Operator : SY/MD
 Sample : P5294-03 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0AB8

Quant Time: Dec 19 07:59:36 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Dec 19 07:32:09 2024
 Response via : Initial Calibration

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

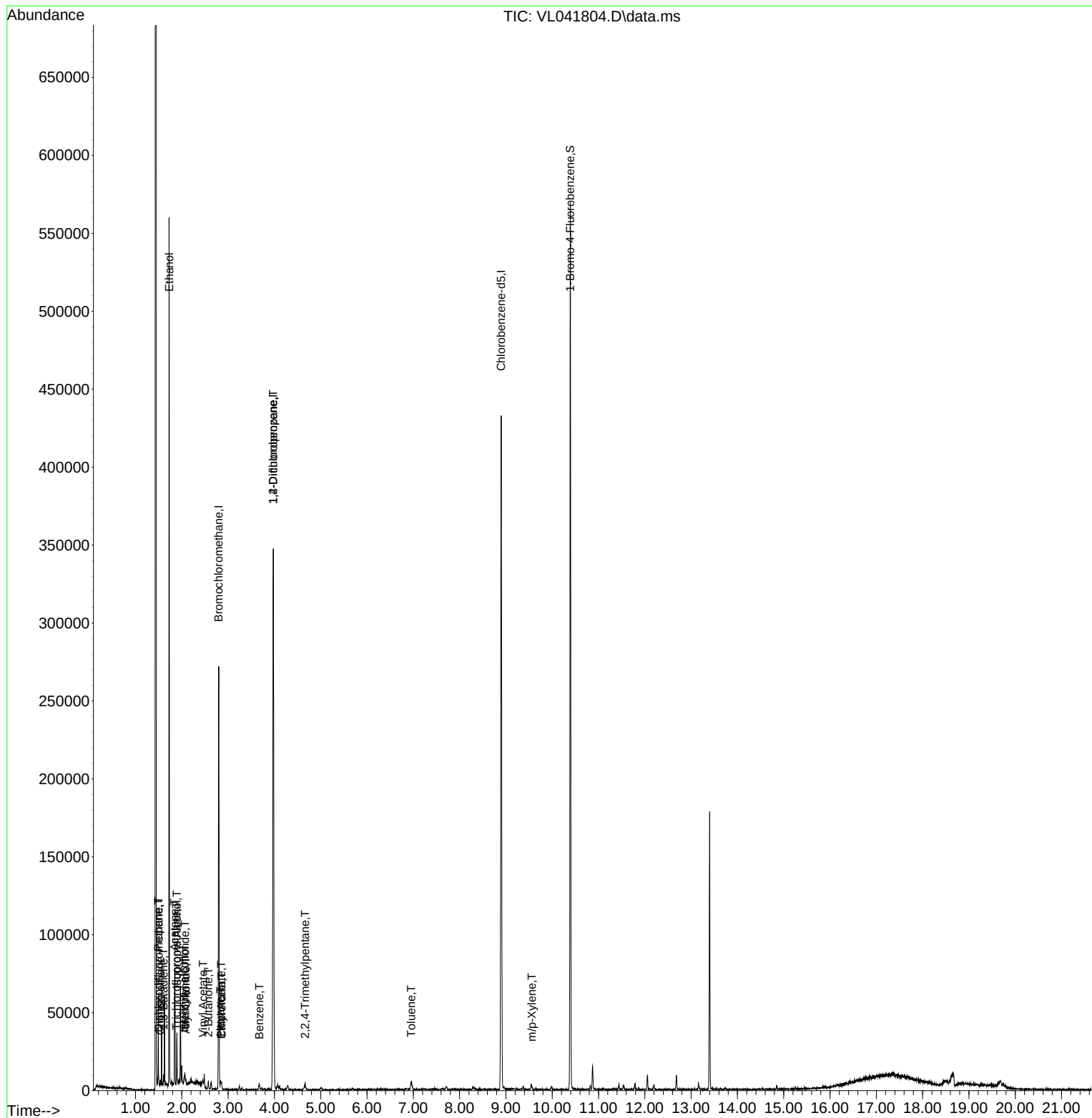
Internal Standards						
1) Bromochloromethane	2.797	49	74183	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	3.975	114	178760	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.898	117	153579	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	126475	9.882	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.800%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.502	85	1495	0.113	ppbv #	81
4) Chloromethane	1.538	50	1030	0.199	ppbv #	79
9) Propene	1.492	41	5061	0.965	ppbv	84
11) Trichlorofluoromethane	1.884	101	672	0.048	ppbv #	82
13) Ethanol	1.725	45	183984	423.747	ppbv	94
15) Acetone	1.842	43	29117	2.017	ppbv #	86
16) 1,3-Butadiene	1.606	39	1028	0.181	ppbv #	45
17) tert-Butyl alcohol	2.052	59	1126	0.079	ppbv #	71
19) Isopropyl Alcohol	1.894	45	12087	1.396	ppbv #	38
20) Methylene Chloride	2.068	84	993	0.241	ppbv #	71
21) Allyl Chloride	2.085	41	366	0.047	ppbv #	1
23) Vinyl Acetate	2.460	43	1612	0.241	ppbv #	20
25) Ethyl Acetate	2.852	43	1051	0.039	ppbv #	79
26) Hexane	2.836	57	973	0.095	ppbv #	1
29) Chloroform	2.861	83	1233	0.079	ppbv	84
34) 2-Butanone	2.570	43	3358	0.233	ppbv	100
36) Benzene	3.674	78	1431	0.077	ppbv #	81
39) 1,2-Dichloropropane	3.975	63	50246	7.513	ppbv #	17
44) 2,2,4-Trimethylpentane	4.664	57	1469	0.047	ppbv #	39
53) Toluene	6.956	91	1968	0.094	ppbv #	21
59) m/p-Xylene	9.558	91	717	0.032	ppbv #	100

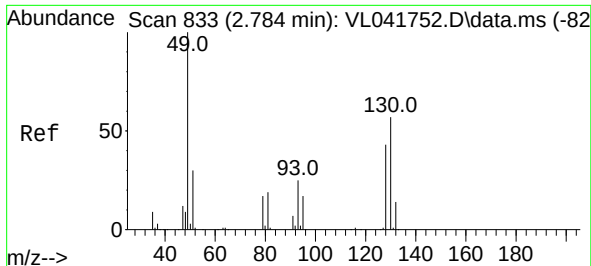
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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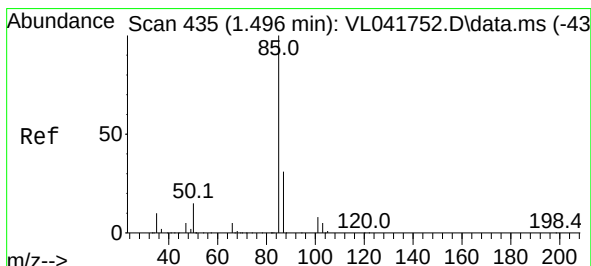
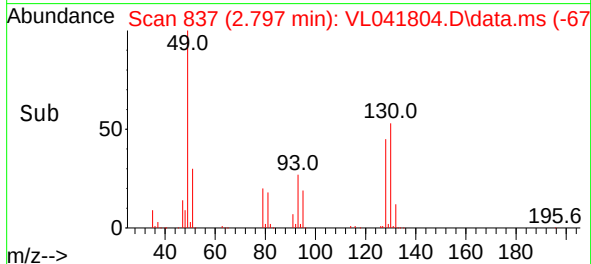
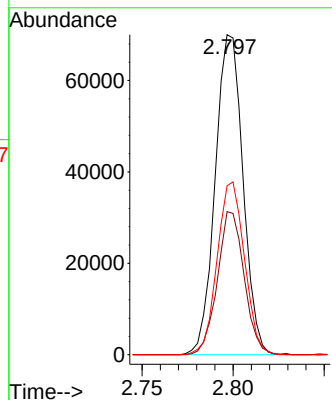
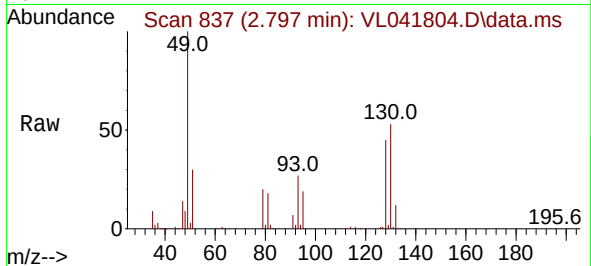




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 841
Delta R.T. 0.013 min
Lab File: VL041804.D
Acq: 18 Dec 2024 21:03

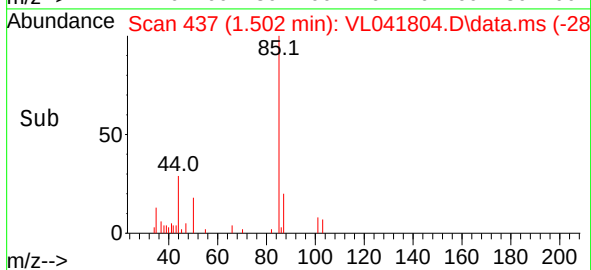
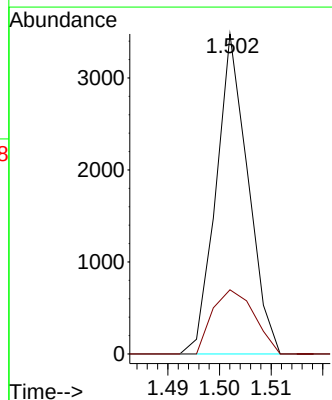
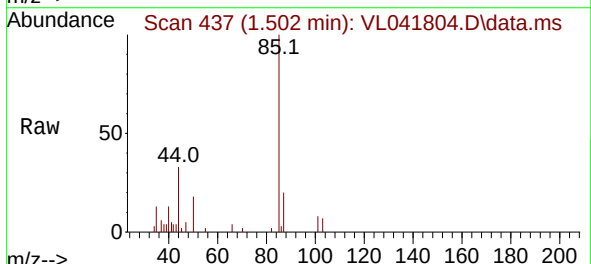
Instrument :
MSVOA_L
ClientSampleId :
C0AB8

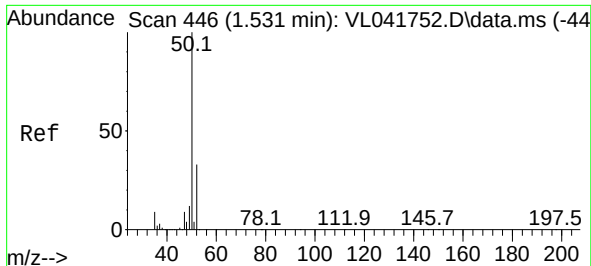
Tgt Ion: 49 Resp: 74183
Ion Ratio Lower Upper
49 100
128 43.1 21.6 64.6
130 53.0 28.3 85.0



#2
Dichlorodifluoromethane
Concen: 0.113 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.006 min
Lab File: VL041804.D
Acq: 18 Dec 2024 21:03

Tgt Ion: 85 Resp: 1495
Ion Ratio Lower Upper
85 100
87 20.0 24.5 36.7#

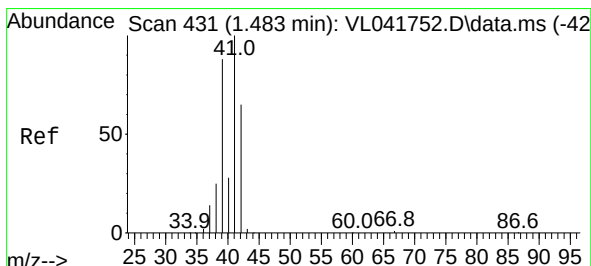
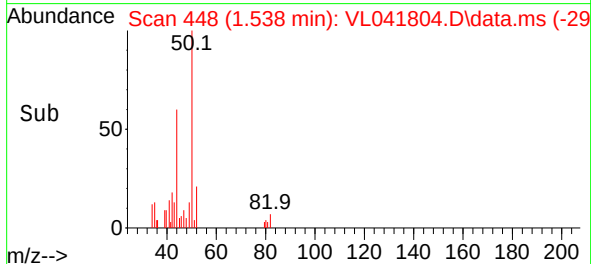
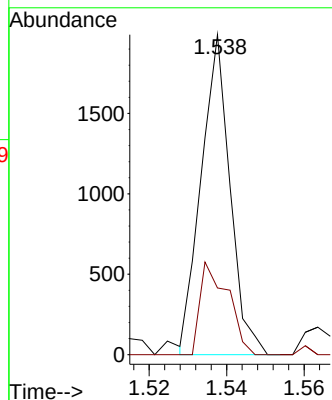
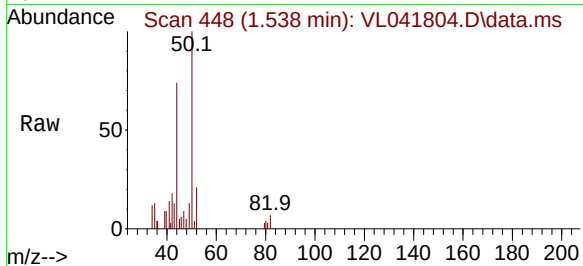




#4
Chloromethane
Concen: 0.199 ppbv
RT: 1.538 min Scan# 446
Delta R.T. 0.006 min
Lab File: VL041804.D
Acq: 18 Dec 2024 21:03

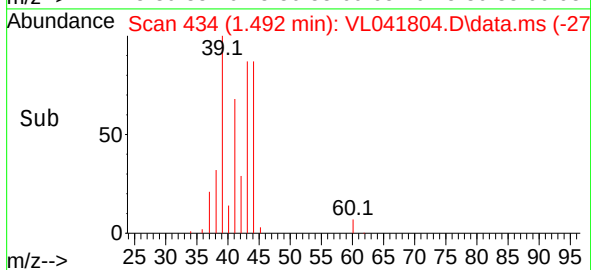
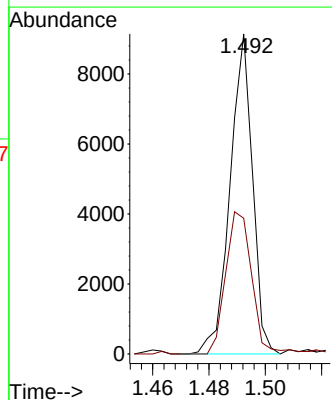
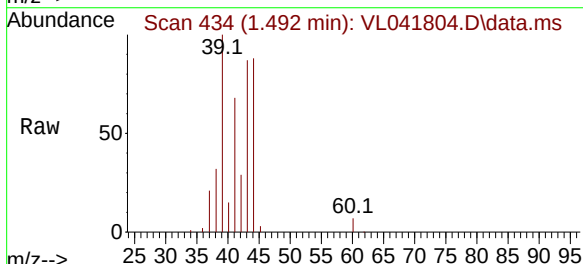
Instrument :
MSVOA_L
ClientSampleId :
C0AB8

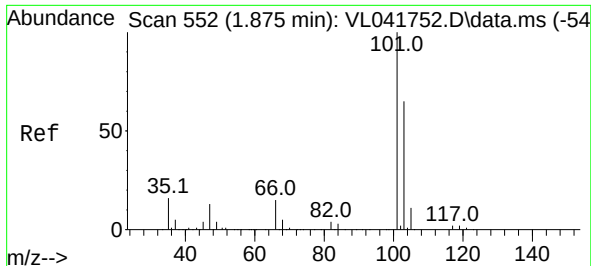
Tgt Ion: 50 Resp: 1030
Ion Ratio Lower Upper
50 100
52 20.9 26.2 39.2#



#9
Propene
Concen: 0.965 ppbv
RT: 1.492 min Scan# 434
Delta R.T. 0.009 min
Lab File: VL041804.D
Acq: 18 Dec 2024 21:03

Tgt Ion: 41 Resp: 5061
Ion Ratio Lower Upper
41 100
42 52.9 52.4 78.6





#11

Trichlorofluoromethane

Concen: 0.048 ppbv

RT: 1.884 min Scan# 506

Delta R.T. 0.009 min

Lab File: VL041804.D

Acq: 18 Dec 2024 21:03

Instrument :

MSVOA_L

ClientSampleId :

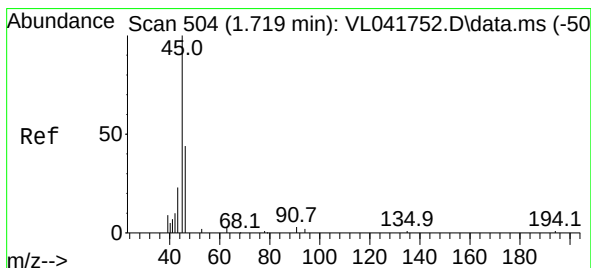
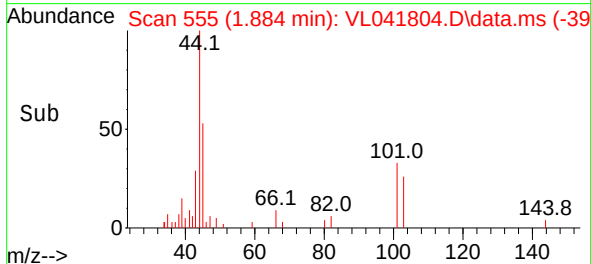
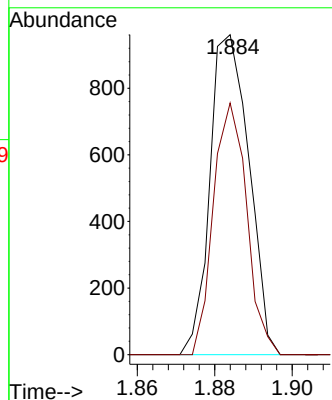
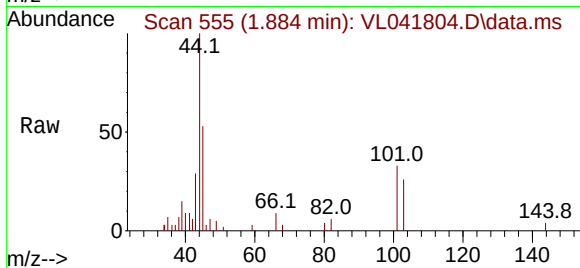
C0AB8

Tgt Ion:101 Resp: 672

Ion Ratio Lower Upper

101 100

103 78.7 51.8 77.8#



#13

Ethanol

Concen: 423.747 ppbv

RT: 1.725 min Scan# 506

Delta R.T. 0.006 min

Lab File: VL041804.D

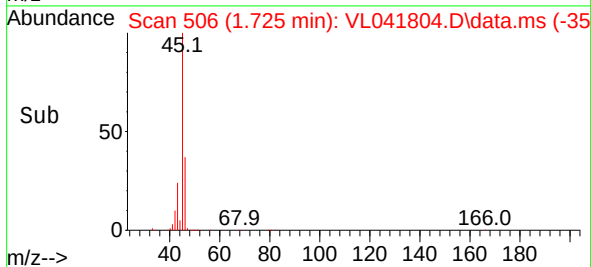
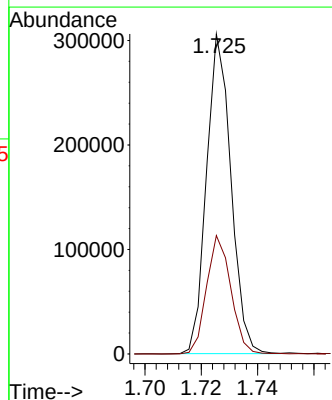
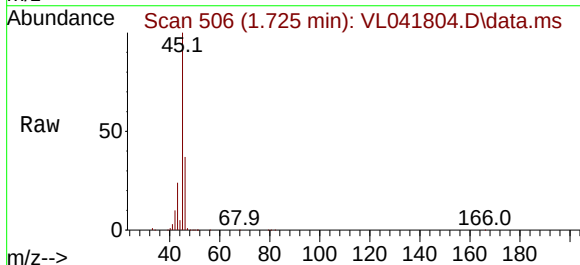
Acq: 18 Dec 2024 21:03

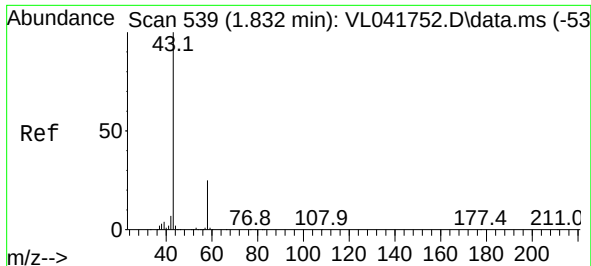
Tgt Ion: 45 Resp: 183984

Ion Ratio Lower Upper

45 100

46 37.1 16.4 65.8





#15

Acetone

Concen: 2.017 ppbv

RT: 1.842 min Scan# 54

Delta R.T. 0.009 min

Lab File: VL041804.D

Acq: 18 Dec 2024 21:03

Instrument :

MSVOA_L

ClientSampleId :

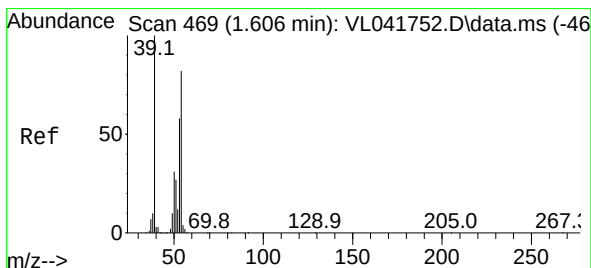
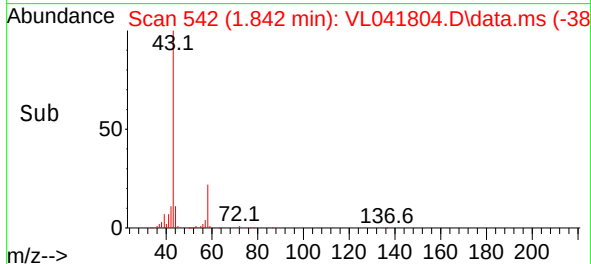
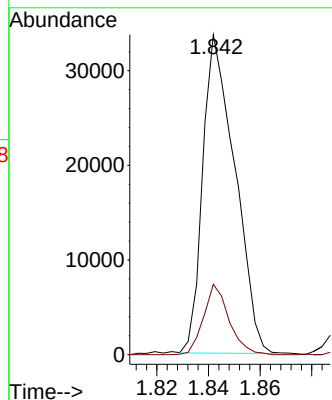
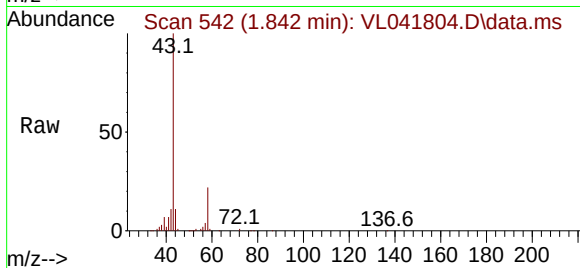
C0AB8

Tgt Ion: 43 Resp: 29117

Ion Ratio Lower Upper

43 100

58 17.5 19.7 29.5#



#16

1,3-Butadiene

Concen: 0.181 ppbv

RT: 1.606 min Scan# 469

Delta R.T. -0.000 min

Lab File: VL041804.D

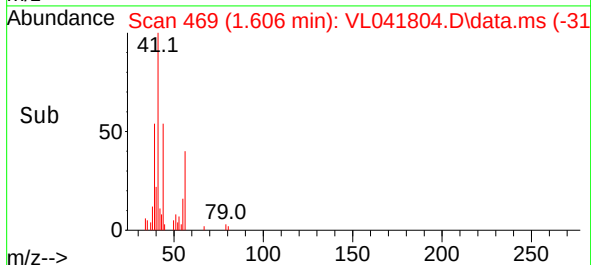
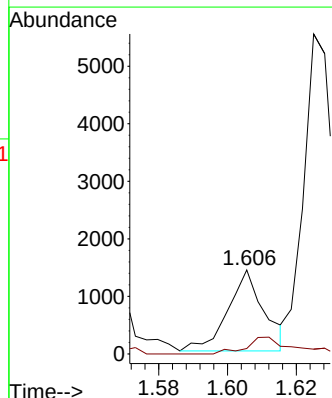
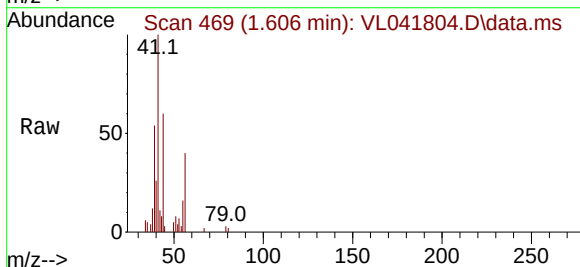
Acq: 18 Dec 2024 21:03

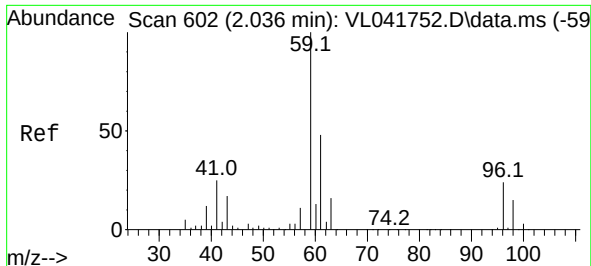
Tgt Ion: 39 Resp: 1028

Ion Ratio Lower Upper

39 100

54 26.5 58.4 87.6#





#17

tert-Butyl alcohol

Concen: 0.079 ppbv

RT: 2.052 min Scan# 602

Delta R.T. 0.016 min

Lab File: VL041804.D

Acq: 18 Dec 2024 21:03

Instrument :

MSVOA_1

ClientSampleId :

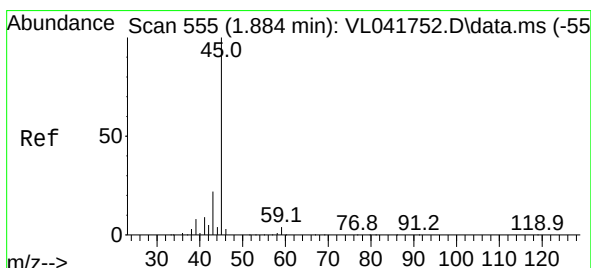
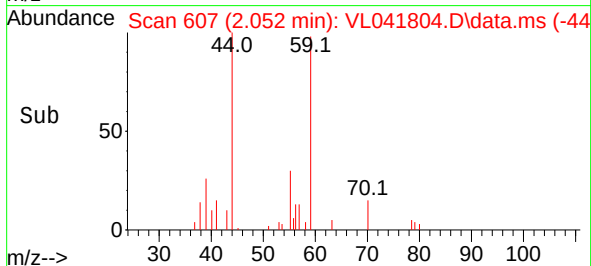
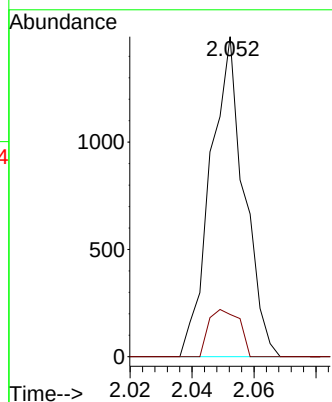
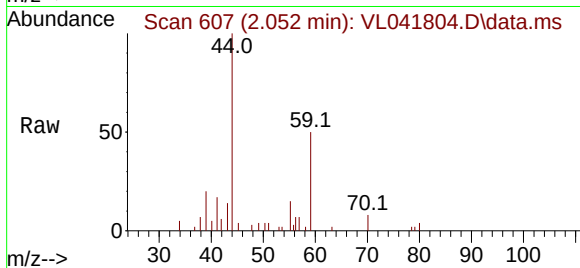
C0AB8

Tgt Ion: 59 Resp: 1126

Ion Ratio Lower Upper

59 100

57 0.0 8.6 13.0#



#19

Isopropyl Alcohol

Concen: 1.396 ppbv

RT: 1.894 min Scan# 558

Delta R.T. 0.009 min

Lab File: VL041804.D

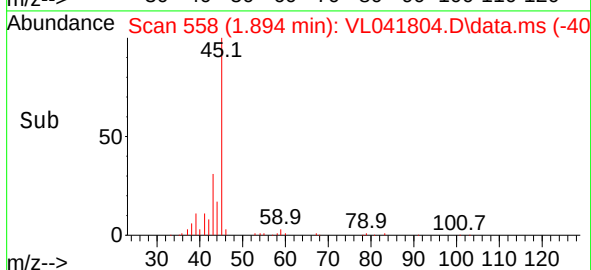
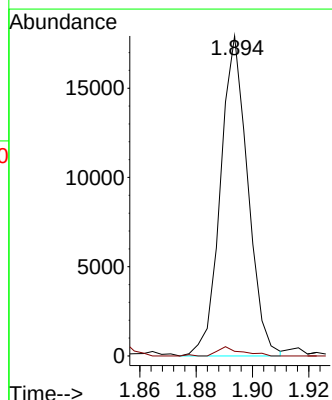
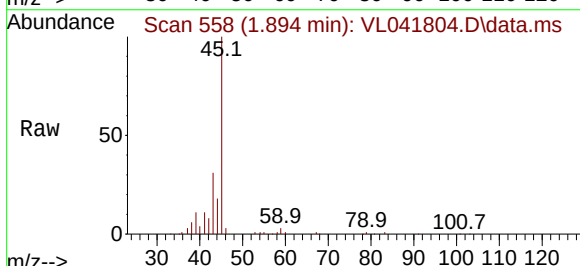
Acq: 18 Dec 2024 21:03

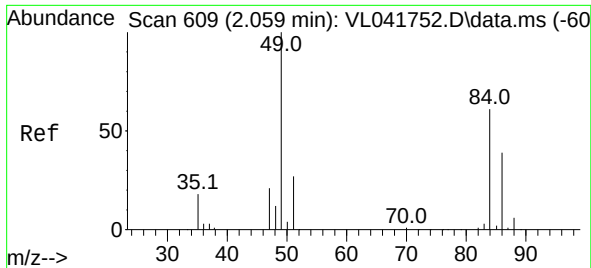
Tgt Ion: 45 Resp: 12087

Ion Ratio Lower Upper

45 100

58 2.6 33.3 49.9#





#20

Methylene Chloride

Concen: 0.241 ppbv

RT: 2.068 min Scan# 612

Delta R.T. 0.009 min

Lab File: VL041804.D

Acq: 18 Dec 2024 21:03

Instrument :

MSVOA_L

ClientSampleId :

C0AB8

Tgt Ion: 84 Resp: 993

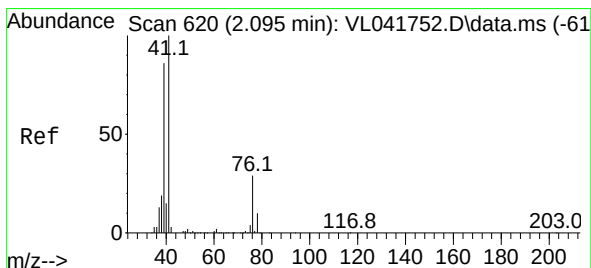
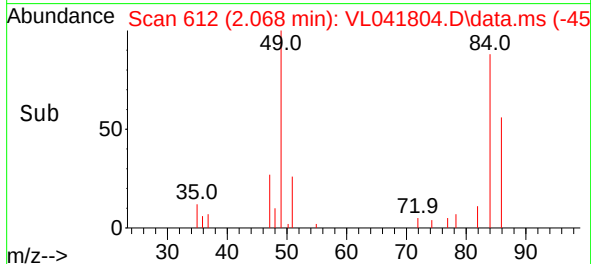
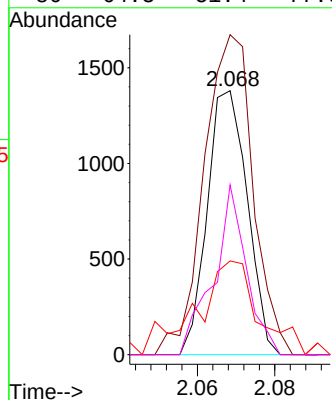
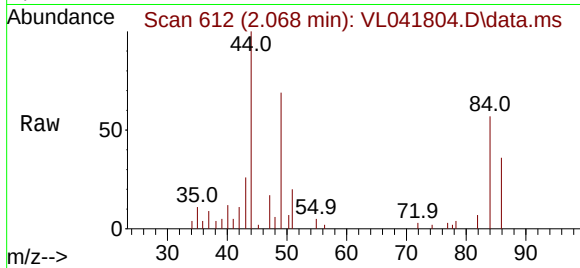
Ion Ratio Lower Upper

84 100

49 112.8 132.6 198.8#

51 27.1 37.6 56.4#

86 64.3 51.4 77.0



#21

Allyl Chloride

Concen: 0.047 ppbv

RT: 2.085 min Scan# 617

Delta R.T. -0.010 min

Lab File: VL041804.D

Acq: 18 Dec 2024 21:03

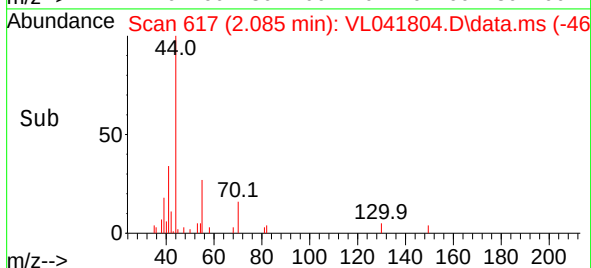
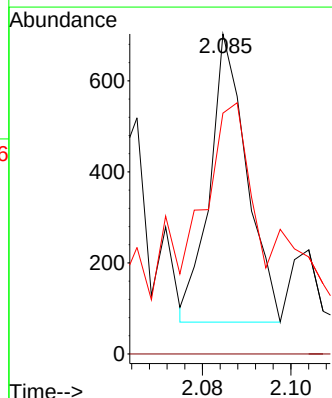
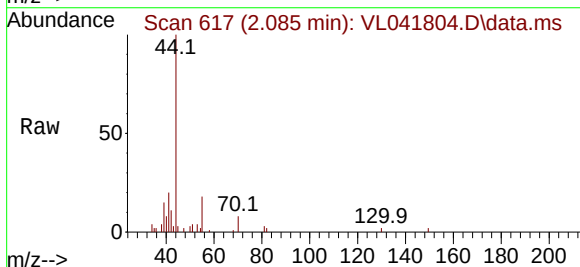
Tgt Ion: 41 Resp: 366

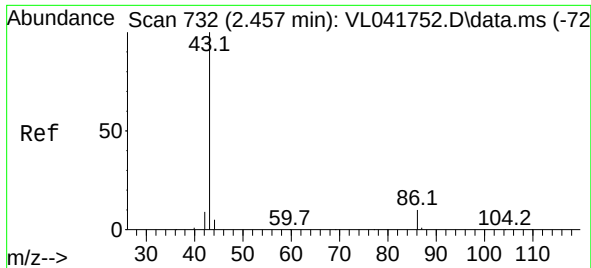
Ion Ratio Lower Upper

41 100

76 0.0 22.3 33.5#

39 202.7 69.2 103.8#

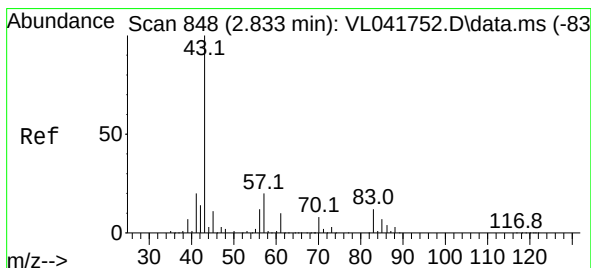
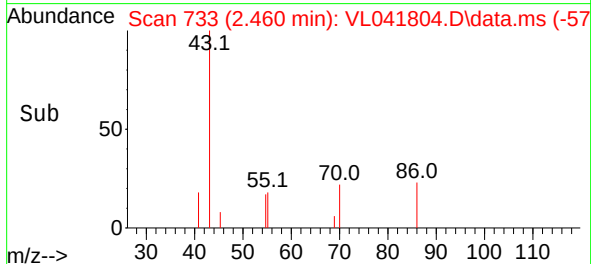
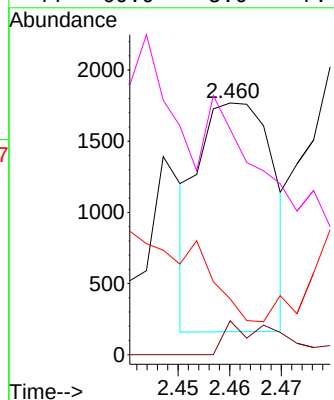
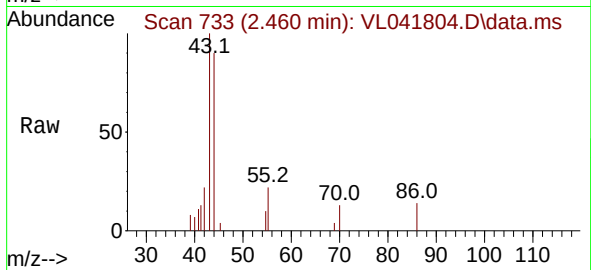




#23
 Vinyl Acetate
 Concen: 0.241 ppbv
 RT: 2.460 min Scan# 741
 Delta R.T. 0.003 min
 Lab File: VL041804.D
 Acq: 18 Dec 2024 21:03

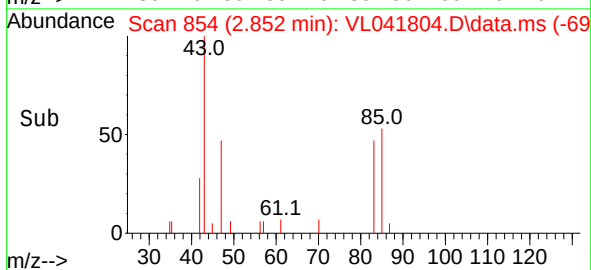
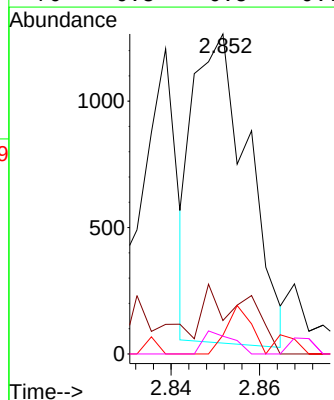
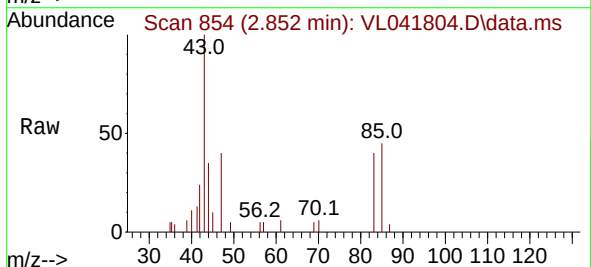
Instrument :
 MSVOA_1
 ClientSampleId :
 C0AB8

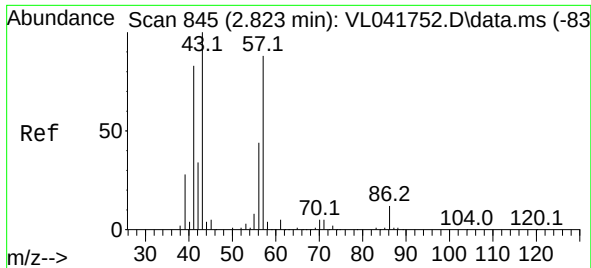
Tgt Ion: 43	Resp: 1612
Ion Ratio	Lower Upper
43 100	
86 38.1	6.6 10.0#
42 0.0	8.2 12.2#
44 60.9	5.0 7.4#



#25
 Ethyl Acetate
 Concen: 0.039 ppbv
 RT: 2.852 min Scan# 854
 Delta R.T. 0.019 min
 Lab File: VL041804.D
 Acq: 18 Dec 2024 21:03

Tgt	Ion: 43	Resp:	1051
Ion	Ratio	Lower	Upper
43	100		
45	28.8	8.1	12.1#
61	9.6	7.0	10.6
70	6.3	6.5	9.7#





#26

Hexane

Concen: 0.095 ppbv

RT: 2.836 min Scan# 84

Delta R.T. 0.013 min

Lab File: VL041804.D

Acq: 18 Dec 2024 21:03

Instrument :

MSVOA_L

ClientSampleId :

C0AB8

Tgt Ion: 57 Resp: 973

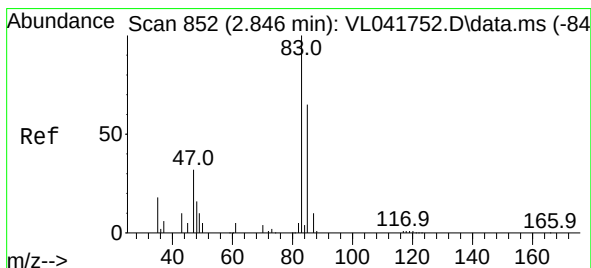
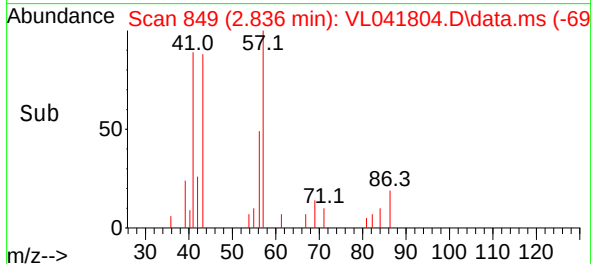
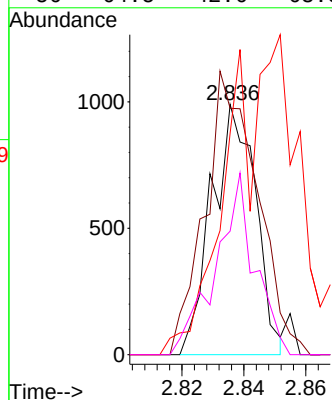
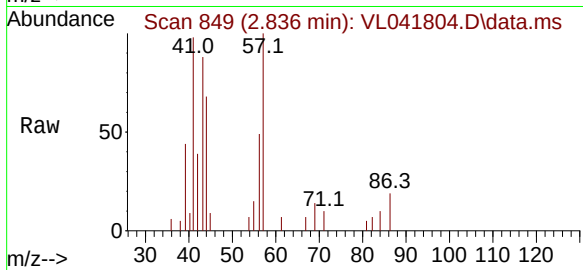
Ion Ratio Lower Upper

57 100

41 134.3 79.6 119.4#

43 0.0 211.0 316.6#

56 64.5 42.6 63.8#



#29

Chloroform

Concen: 0.079 ppbv

RT: 2.861 min Scan# 857

Delta R.T. 0.016 min

Lab File: VL041804.D

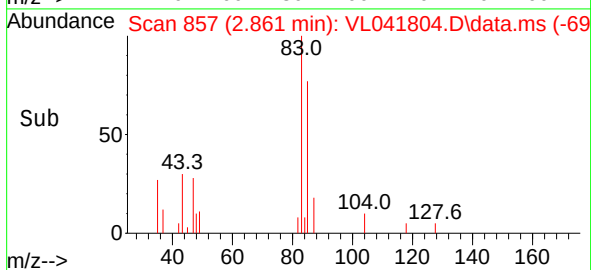
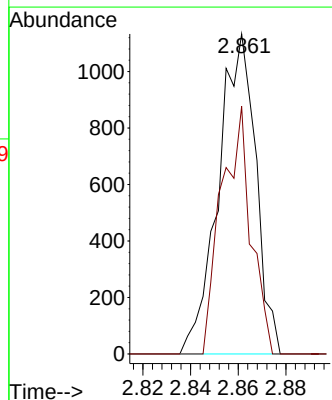
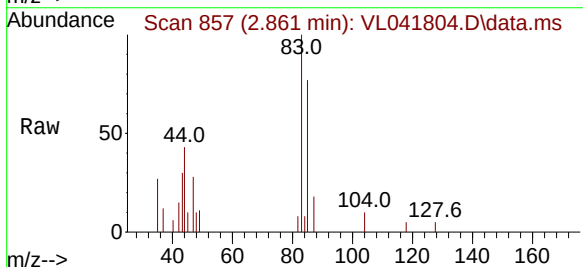
Acq: 18 Dec 2024 21:03

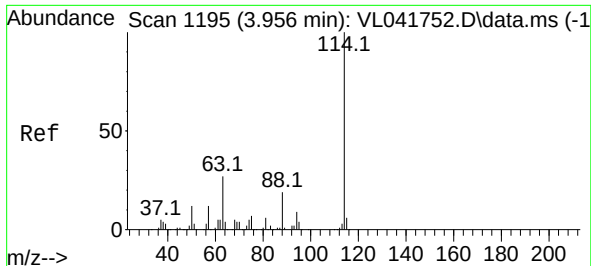
Tgt Ion: 83 Resp: 1233

Ion Ratio Lower Upper

83 100

85 77.4 51.8 77.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.975 min Scan# 1195

Delta R.T. 0.019 min

Lab File: VL041804.D

Acq: 18 Dec 2024 21:03

Instrument :

MSVOA_L

ClientSampleId :

C0AB8

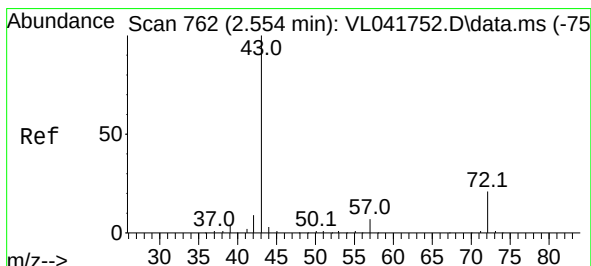
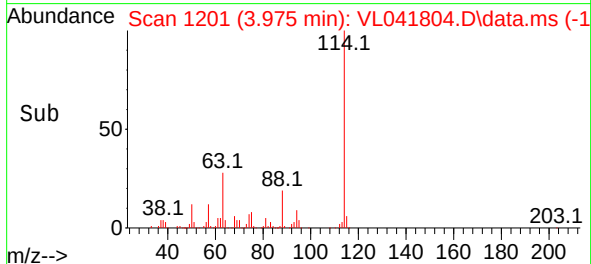
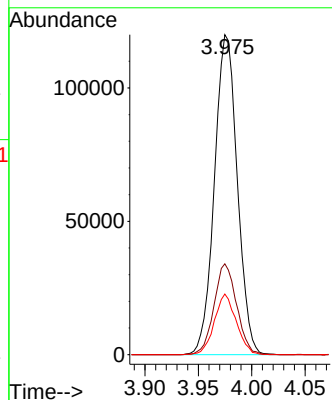
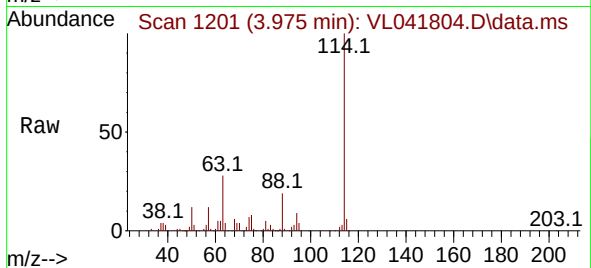
Tgt Ion:114 Resp: 178760

Ion Ratio Lower Upper

114 100

63 28.2 21.8 32.8

88 18.2 14.8 22.2



#34

2-Butanone

Concen: 0.233 ppbv

RT: 2.570 min Scan# 767

Delta R.T. 0.016 min

Lab File: VL041804.D

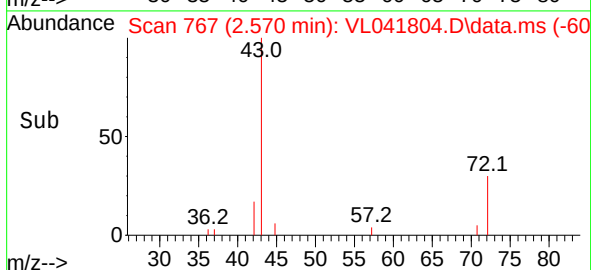
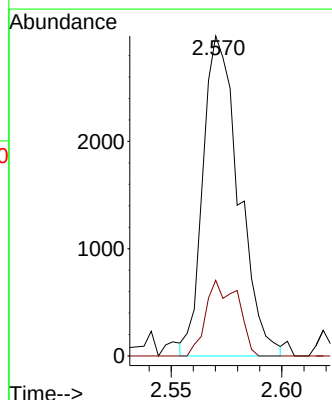
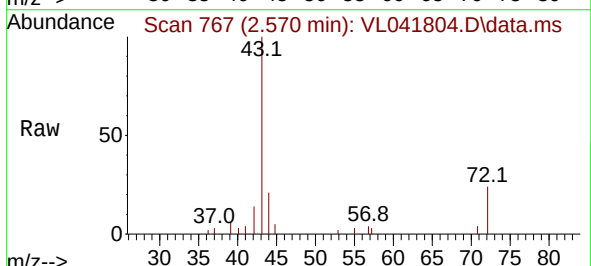
Acq: 18 Dec 2024 21:03

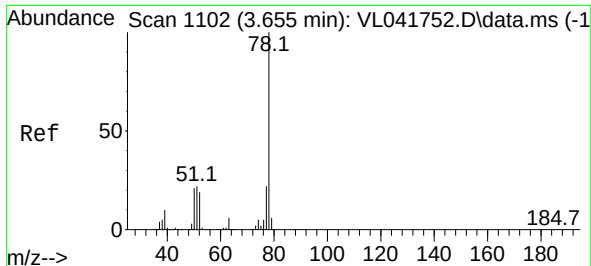
Tgt Ion: 43 Resp: 3358

Ion Ratio Lower Upper

43 100

72 21.1 16.8 25.2





#36

Benzene

Concen: 0.077 ppbv

RT: 3.674 min Scan# 1108

Delta R.T. 0.019 min

Lab File: VL041804.D

Acq: 18 Dec 2024 21:03

Instrument :

MSVOA_L

ClientSampleId :

C0AB8

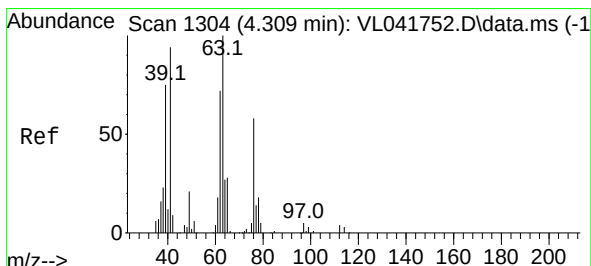
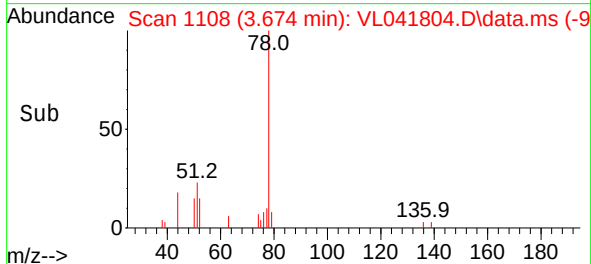
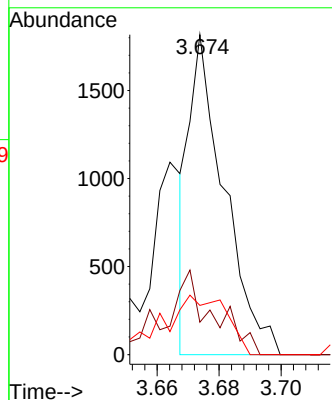
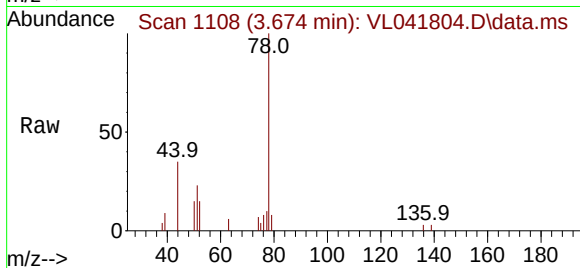
Tgt Ion: 78 Resp: 1431

Ion Ratio Lower Upper

78 100

77 10.1 17.8 26.6#

50 15.4 17.2 25.8#



#39

1,2-Dichloropropane

Concen: 7.513 ppbv

RT: 3.975 min Scan# 1201

Delta R.T. -0.334 min

Lab File: VL041804.D

Acq: 18 Dec 2024 21:03

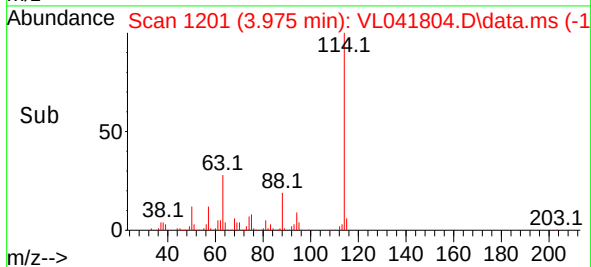
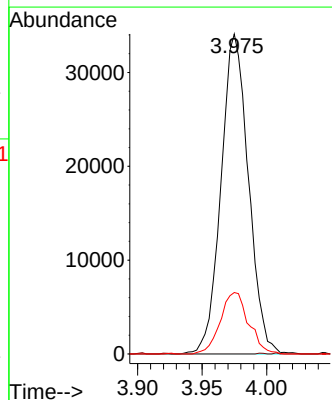
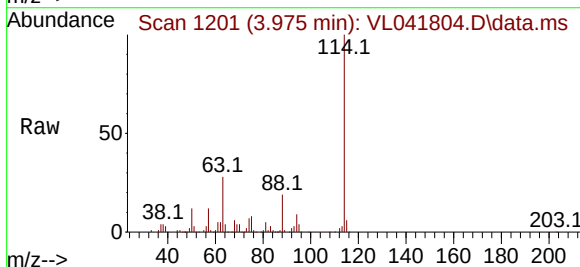
Tgt Ion: 63 Resp: 50246

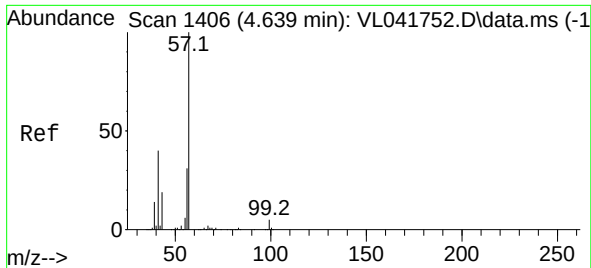
Ion Ratio Lower Upper

63 100

41 0.0 75.3 112.9#

62 19.2 57.3 85.9#





#44

2,2,4-Trimethylpentane

Concen: 0.047 ppbv

RT: 4.664 min Scan# 1406

Delta R.T. 0.026 min

Lab File: VL041804.D

Acq: 18 Dec 2024 21:03

Instrument :

MSVOA_L

ClientSampleId :

C0AB8

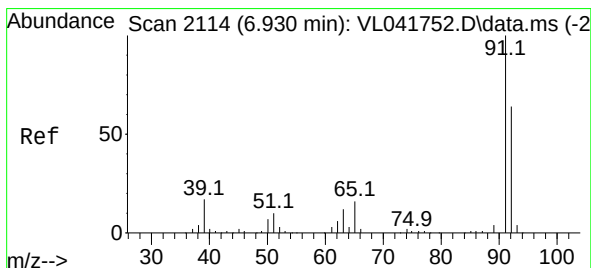
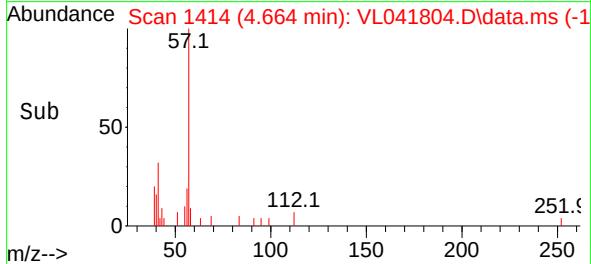
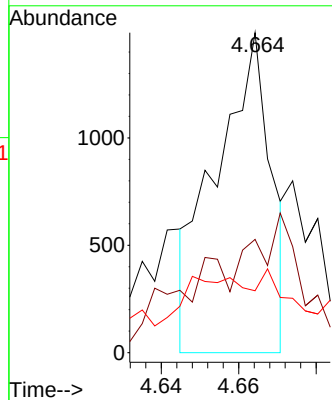
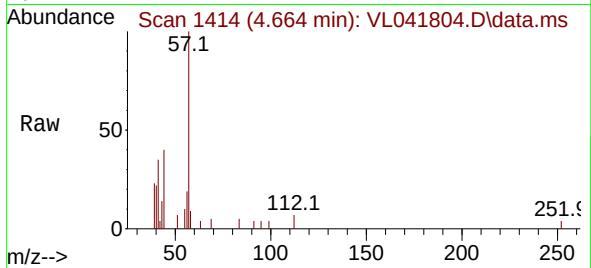
Tgt Ion: 57 Resp: 1469

Ion Ratio Lower Upper

57 100

41 0.0 30.7 46.1#

56 0.0 25.4 38.0#



#53

Toluene

Concen: 0.094 ppbv

RT: 6.956 min Scan# 2122

Delta R.T. 0.026 min

Lab File: VL041804.D

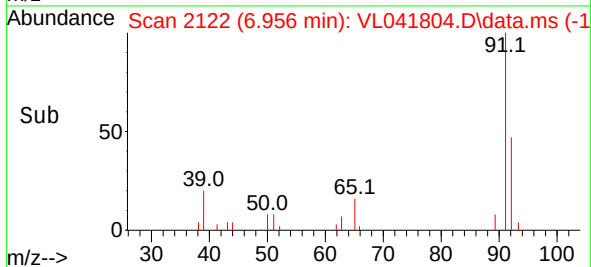
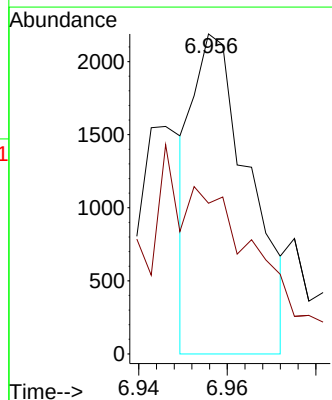
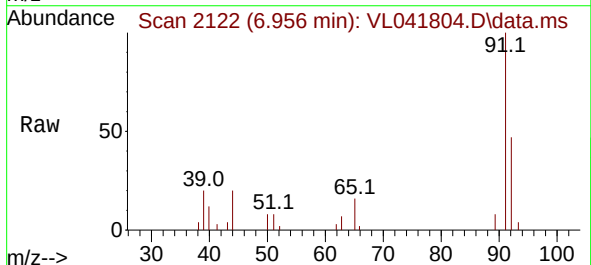
Acq: 18 Dec 2024 21:03

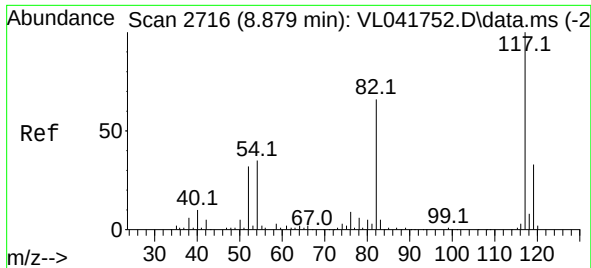
Tgt Ion: 91 Resp: 1968

Ion Ratio Lower Upper

91 100

92 0.0 47.9 71.9#

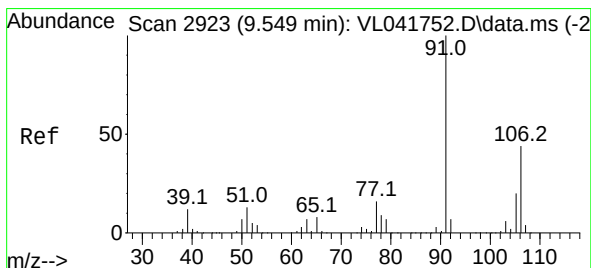
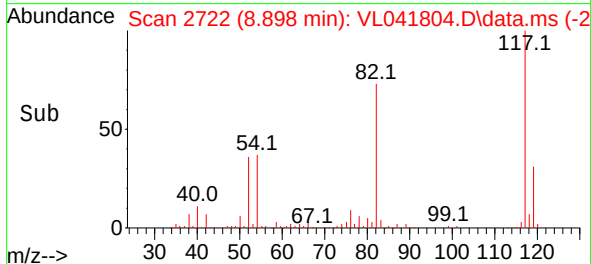
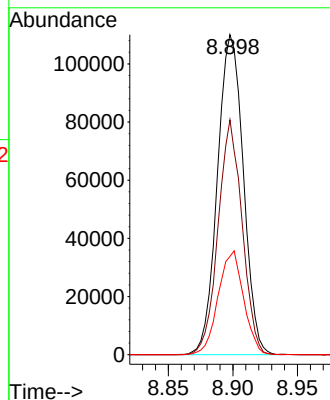
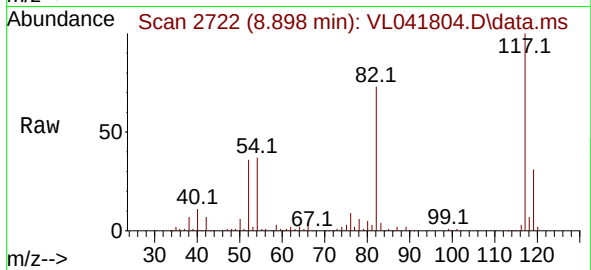




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.898 min Scan# 21
Delta R.T. 0.019 min
Lab File: VL041804.D
Acq: 18 Dec 2024 21:03

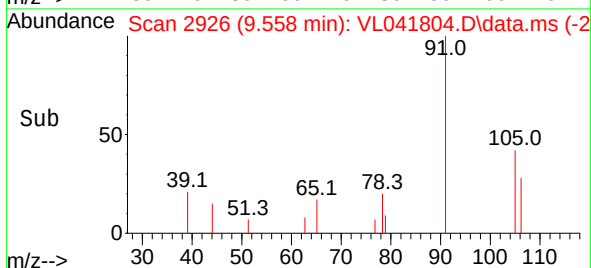
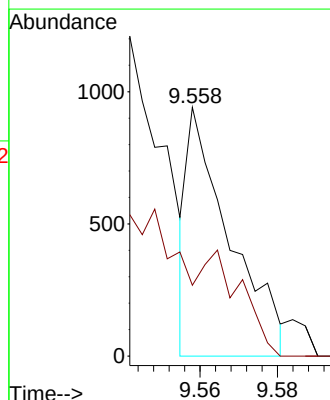
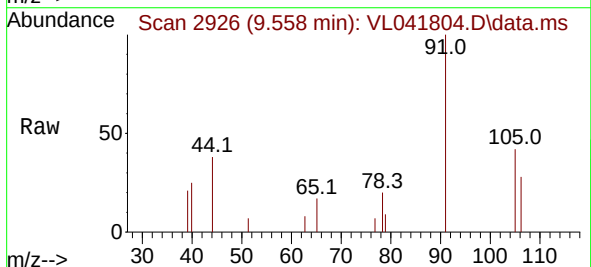
Instrument :
MSVOA_L
ClientSampleId :
C0AB8

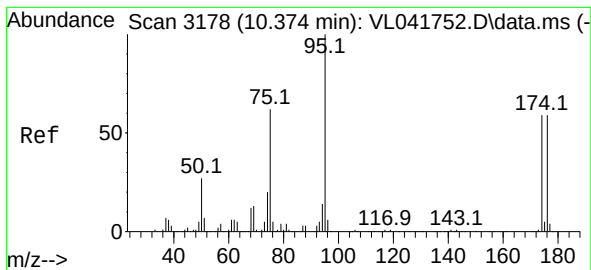
Tgt Ion:117 Resp: 153579
Ion Ratio Lower Upper
117 100
82 68.0 53.8 80.8
119 31.9 26.7 40.1



#59
m/p-Xylene
Concen: 0.032 ppbv
RT: 9.558 min Scan# 2926
Delta R.T. 0.009 min
Lab File: VL041804.D
Acq: 18 Dec 2024 21:03

Tgt Ion: 91 Resp: 717
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0





#68

1-Bromo-4-Fluorobenzene

Concen: 9.882 ppbv

RT: 10.390 min Scan# 31

Delta R.T. 0.016 min

Lab File: VL041804.D

Acq: 18 Dec 2024 21:03

Instrument :

MSVOA_L

ClientSampleId :

C0AB8

Tgt Ion: 95 Resp: 126475

Ion Ratio Lower Upper

95 100

174 58.9 47.6 71.4

175 4.4 3.7 5.5

