

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112124\
 Data File : VL041715.D
 Acq On : 21 Nov 2024 15:06
 Operator : SY/MD
 Sample : P4633-01DL2 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Nov 22 01:08:22 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL110724AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Nov 22 01:00:55 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.230	49	1063727	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.687	114	2922287	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.503	117	2654968	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.812	95	2071565	10.590	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.900%

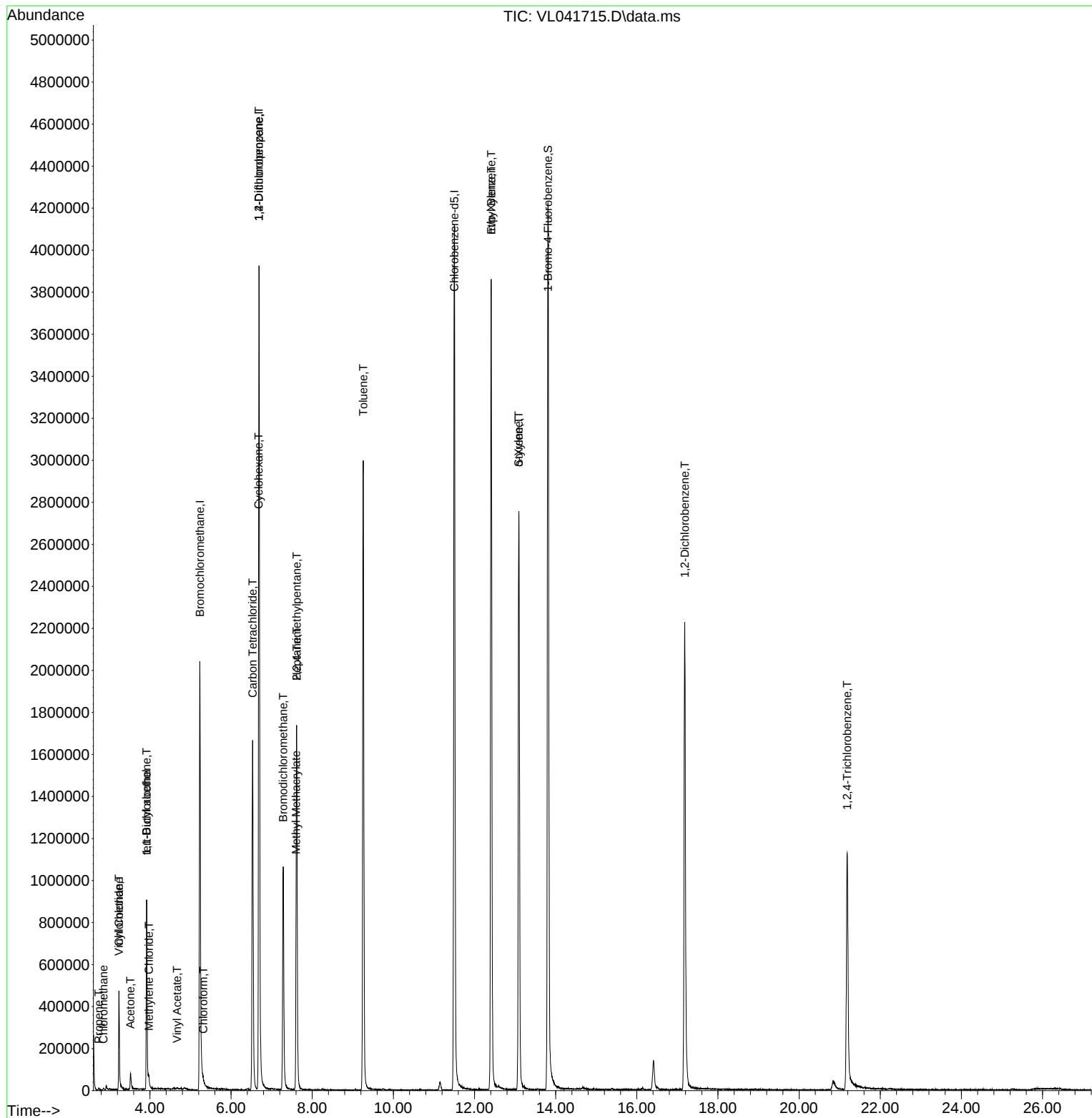
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Chloromethane	2.854	50	7310	0.100	ppbv #	81
5) Vinyl Chloride	3.234	62	5697	0.086	ppbv #	1
7) Chloroethane	3.237	64	289174	11.998	ppbv	100
9) Propene	2.738	41	3576	0.059	ppbv	88
10) Heptane	7.616	43	750273	5.544	ppbv	99
15) Acetone	3.520	43	85358	0.652	ppbv	91
17) tert-Butyl alcohol	3.918	59	18040	0.157	ppbv #	72
18) 1,1-Dichloroethene	3.918	96	244142	4.573	ppbv	96
20) Methylene Chloride	3.973	84	8783	0.182	ppbv	89
23) Vinyl Acetate	4.668	43	4465	0.077	ppbv #	82
29) Chloroform	5.314	83	5891	0.034	ppbv #	70
30) Cyclohexane	6.677	84	7038	0.079	ppbv #	1
35) Carbon Tetrachloride	6.532	117	1025832	6.653	ppbv	97
39) 1,2-Dichloropropane	6.687	63	730607	8.539	ppbv #	23
42) Bromodichloromethane	7.285	83	734738	4.328	ppbv	99
43) Methyl Methacrylate	7.600	69	10811	0.142	ppbv #	1
44) 2,2,4-Trimethylpentane	7.616	57	370349	1.010	ppbv #	1
53) Toluene	9.256	91	2347642	10.310	ppbv	100
58) Ethyl Benzene	12.410	91	2844916	9.774	ppbv #	69
59) m/p-Xylene	12.410	91	2844916	10.915	ppbv	96
60) o-Xylene	13.092	91	2141646	8.617	ppbv	100
61) Styrene	13.092	104	28930	0.282	ppbv #	1
77) 1,2-Dichlorobenzene	17.182	146	1217081	6.735	ppbv	100
81) 1,2,4-Trichlorobenzene	21.188	180	511649	4.475	ppbv	95

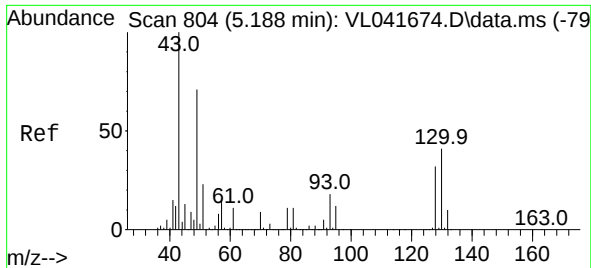
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri Nov 22 01:00:55 2024
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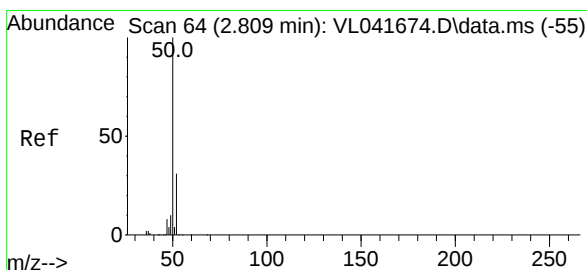
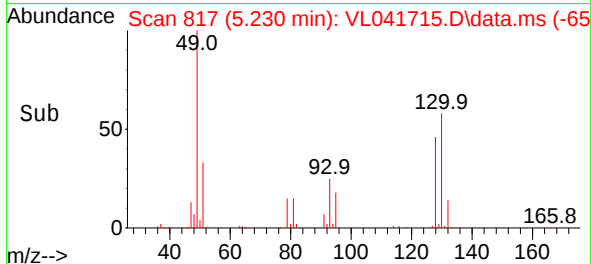
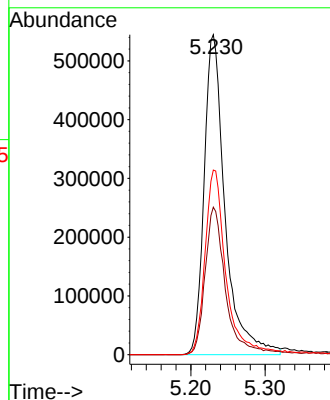
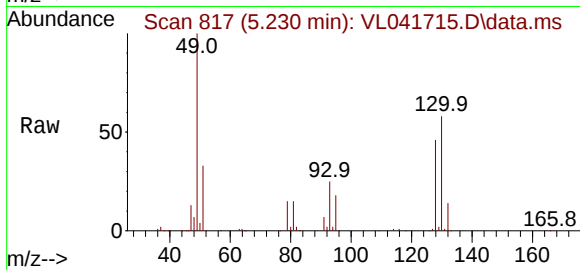




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.230 min Scan# 81
Delta R.T. 0.009 min
Lab File: VL041715.D
Acq: 21 Nov 2024 15:06

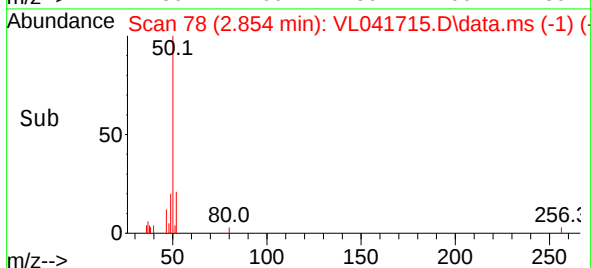
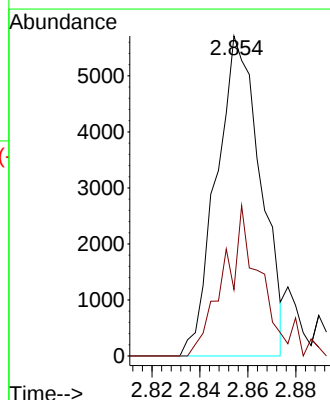
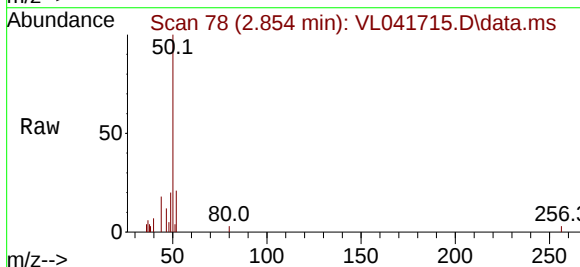
Instrument :
MSVOA_L
ClientSampleId :

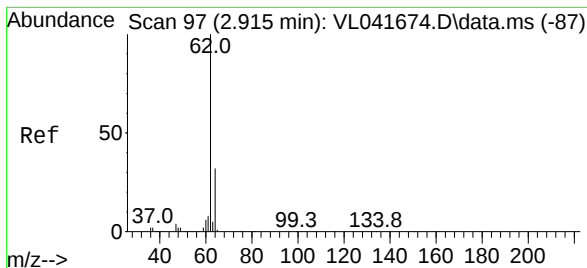
Tgt Ion: 49 Resp: 1063727
Ion Ratio Lower Upper
49 100
128 46.3 23.8 71.2
130 59.8 30.1 90.5



#4
Chloromethane
Concen: 0.100 ppbv
RT: 2.854 min Scan# 78
Delta R.T. 0.013 min
Lab File: VL041715.D
Acq: 21 Nov 2024 15:06

Tgt Ion: 50 Resp: 7310
Ion Ratio Lower Upper
50 100
52 20.8 24.9 37.3#

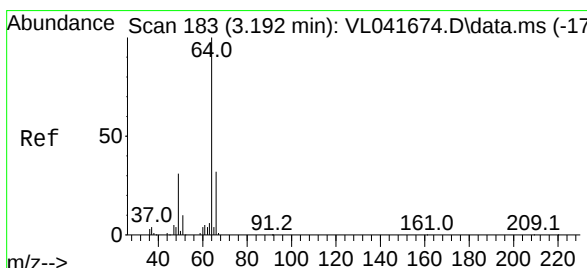
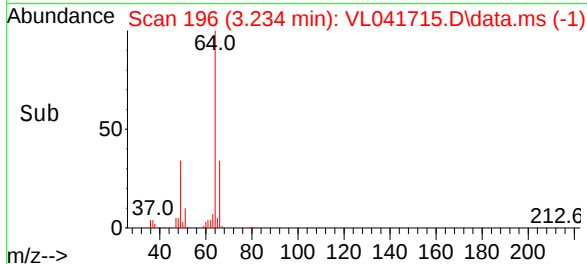
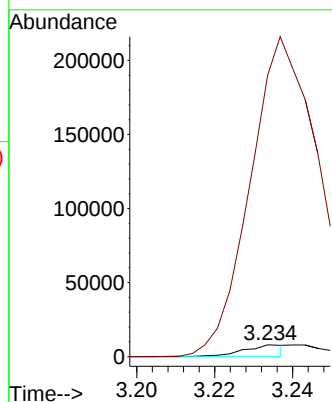
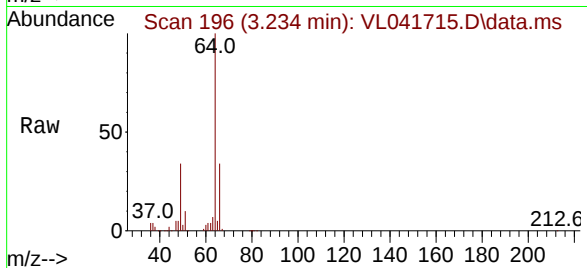




#5
Vinyl Chloride
Concen: 0.086 ppbv
RT: 3.234 min Scan# 196
Delta R.T. 0.286 min
Lab File: VL041715.D
Acq: 21 Nov 2024 15:06

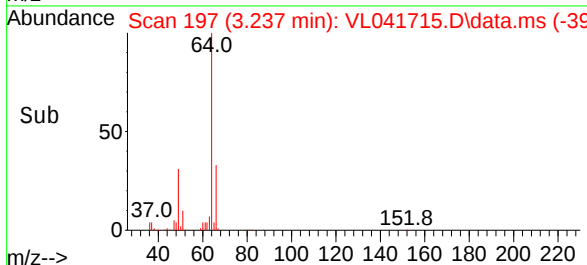
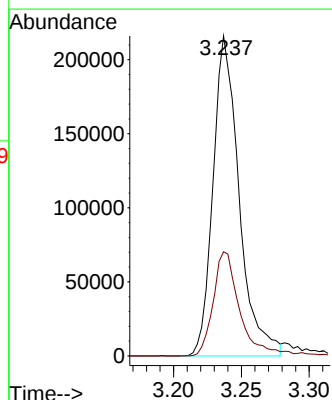
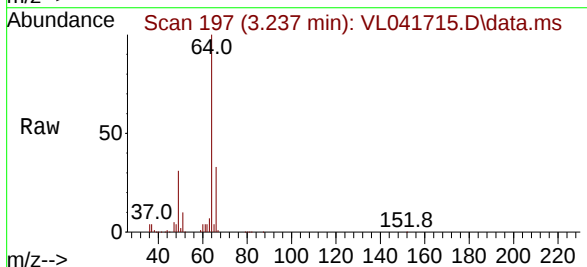
Instrument :
MSVOA_L
ClientSampleId :

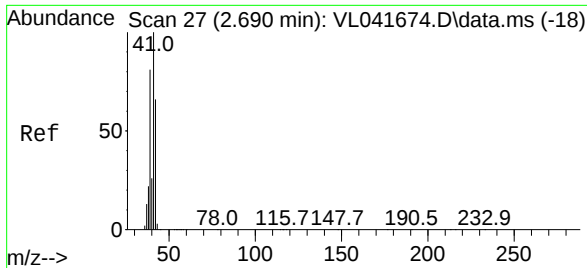
Tgt Ion: 62 Resp: 5697
Ion Ratio Lower Upper
62 100
64 2366.3 25.4 38.2#



#7
Chloroethane
Concen: 11.998 ppbv
RT: 3.237 min Scan# 197
Delta R.T. 0.010 min
Lab File: VL041715.D
Acq: 21 Nov 2024 15:06

Tgt Ion: 64 Resp: 289174
Ion Ratio Lower Upper
64 100
66 32.6 25.9 38.9





#9

Propene

Concen: 0.059 ppbv

RT: 2.738 min Scan# 41

Delta R.T. 0.016 min

Lab File: VL041715.D

Acq: 21 Nov 2024 15:06

Instrument :

MSVOA_L

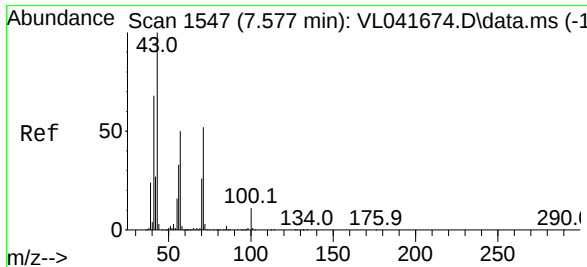
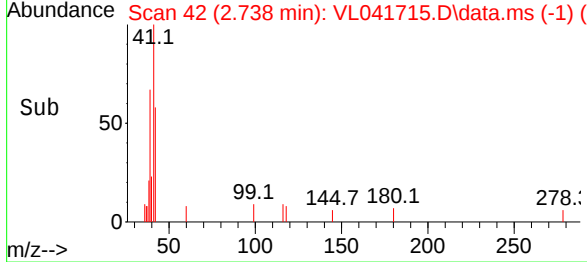
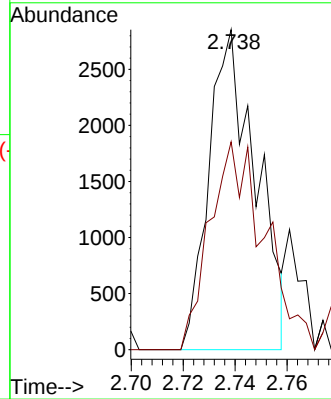
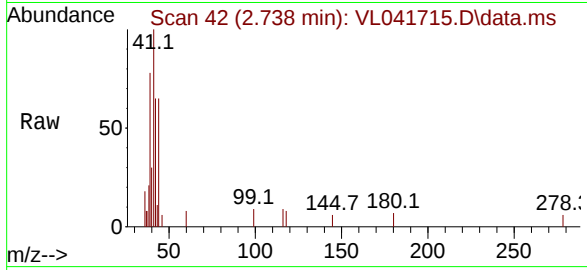
ClientSampleId :

Tgt Ion: 41 Resp: 3576

Ion Ratio Lower Upper

41 100

42 78.7 55.0 82.4



#10

Heptane

Concen: 5.544 ppbv

RT: 7.616 min Scan# 1559

Delta R.T. 0.006 min

Lab File: VL041715.D

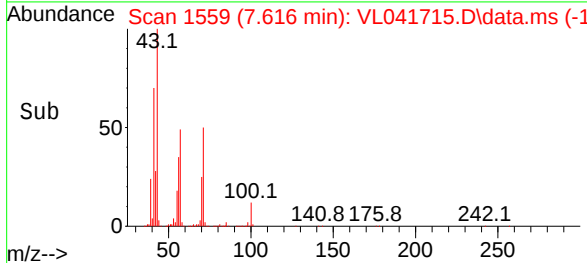
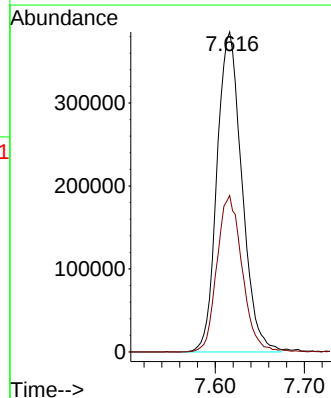
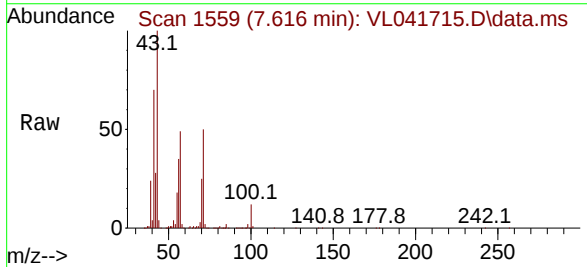
Acq: 21 Nov 2024 15:06

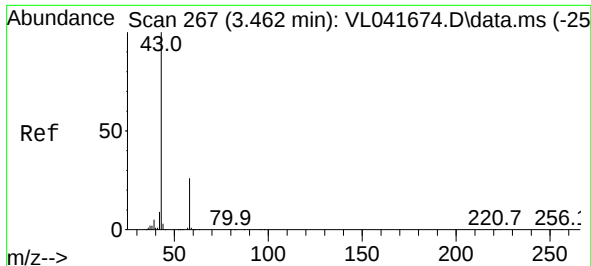
Tgt Ion: 43 Resp: 750273

Ion Ratio Lower Upper

43 100

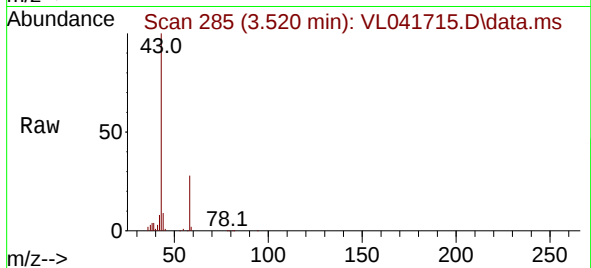
57 49.6 40.0 60.0



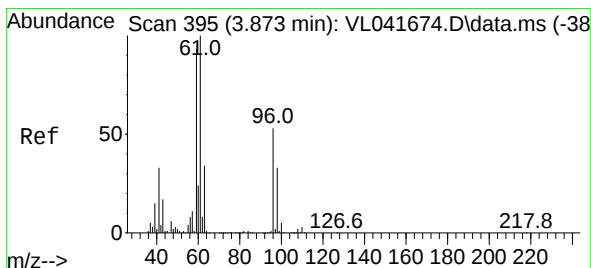
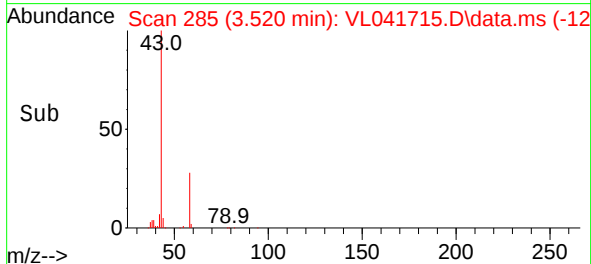
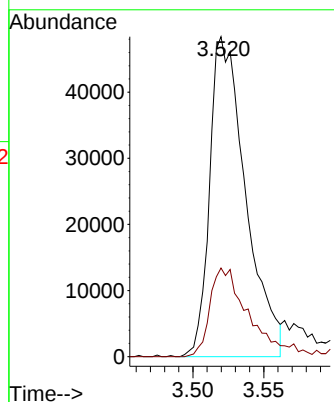


#15
Acetone
Concen: 0.652 ppbv
RT: 3.520 min Scan# 21
Delta R.T. 0.022 min
Lab File: VL041715.D
Acq: 21 Nov 2024 15:06

Instrument :
MSVOA_L
ClientSampleId :

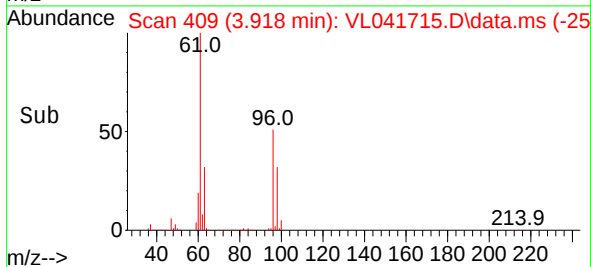
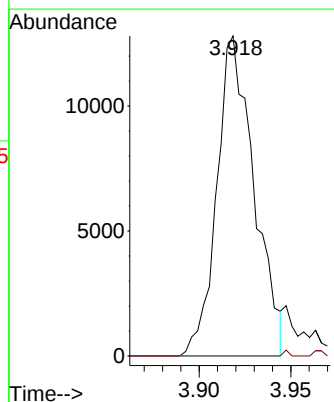
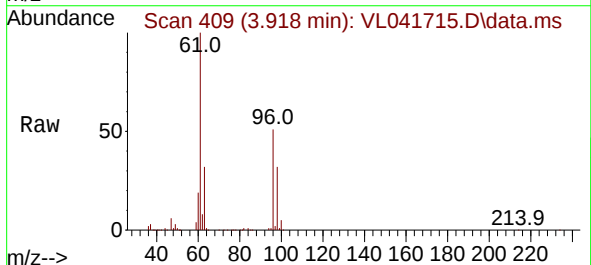


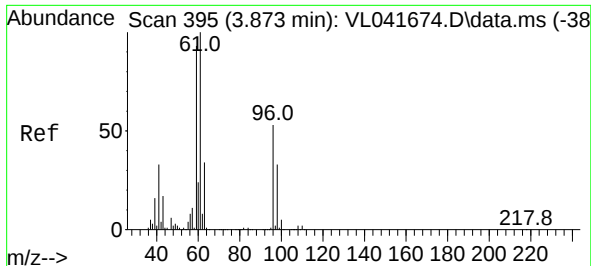
Tgt Ion: 43 Resp: 85358
Ion Ratio Lower Upper
43 100
58 31.5 21.4 32.0



#17
tert-Butyl alcohol
Concen: 0.157 ppbv
RT: 3.918 min Scan# 409
Delta R.T. 0.013 min
Lab File: VL041715.D
Acq: 21 Nov 2024 15:06

Tgt Ion: 59 Resp: 18040
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#





#18

1,1-Dichloroethene

Concen: 4.573 ppbv

RT: 3.918 min Scan# 409

Delta R.T. 0.010 min

Lab File: VL041715.D

Acq: 21 Nov 2024 15:06

Instrument :

MSVOA_L

ClientSampleId :

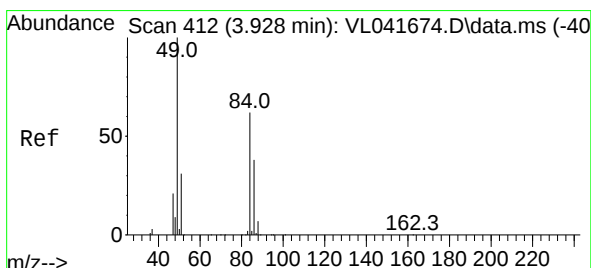
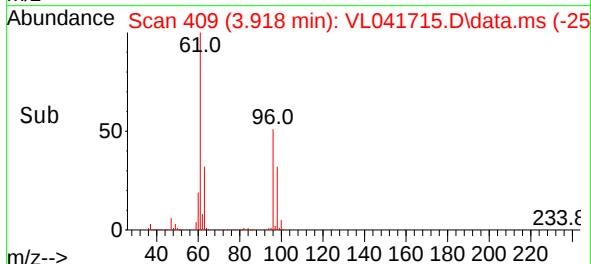
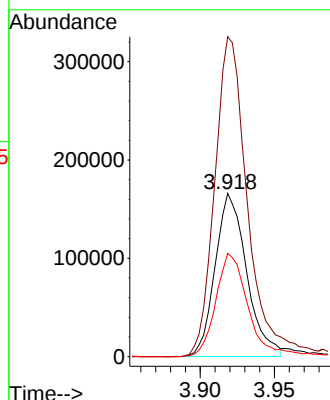
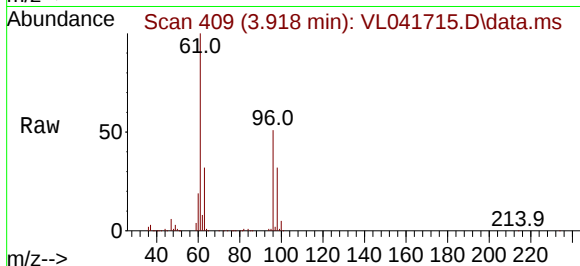
Tgt Ion: 96 Resp: 244142

Ion Ratio Lower Upper

96 100

61 196.1 150.7 226.1

98 63.3 49.4 74.2



#20

Methylene Chloride

Concen: 0.182 ppbv

RT: 3.973 min Scan# 426

Delta R.T. 0.013 min

Lab File: VL041715.D

Acq: 21 Nov 2024 15:06

Tgt Ion: 84 Resp: 8783

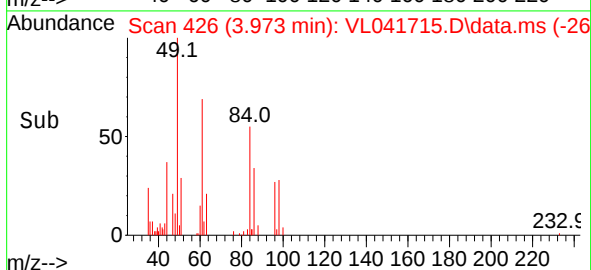
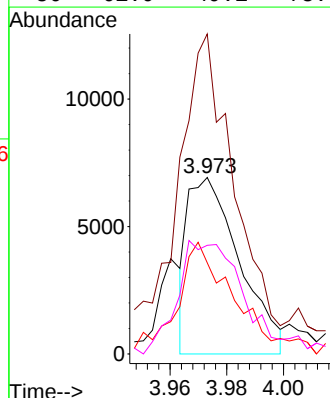
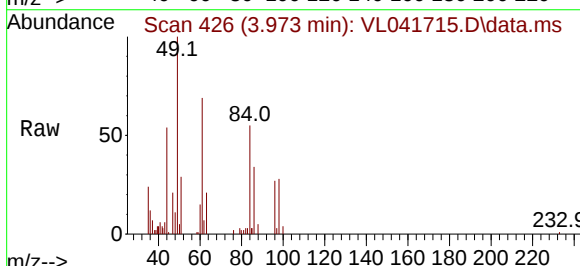
Ion Ratio Lower Upper

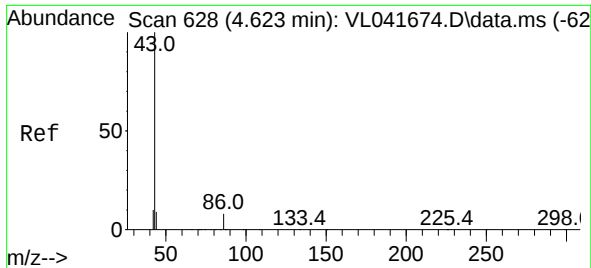
84 100

49 186.3 129.7 194.5

51 49.9 39.8 59.6

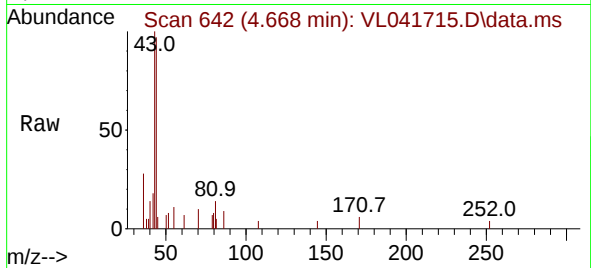
86 61.9 49.1 73.7



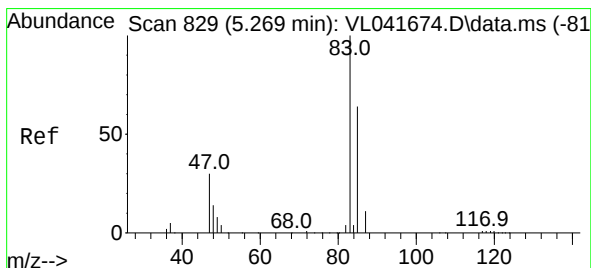
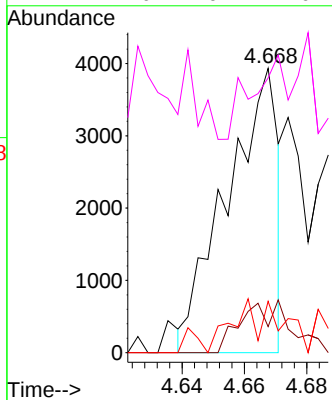
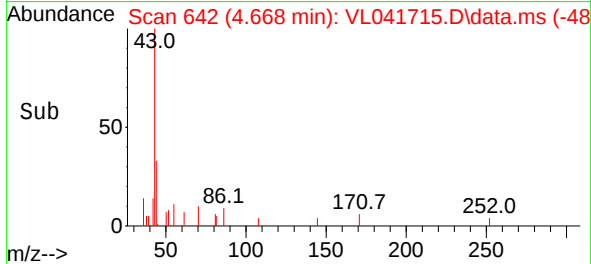


#23
Vinyl Acetate
Concen: 0.077 ppbv
RT: 4.668 min Scan# 642
Delta R.T. 0.013 min
Lab File: VL041715.D
Acq: 21 Nov 2024 15:06

Instrument :
MSVOA_L
ClientSampleId :

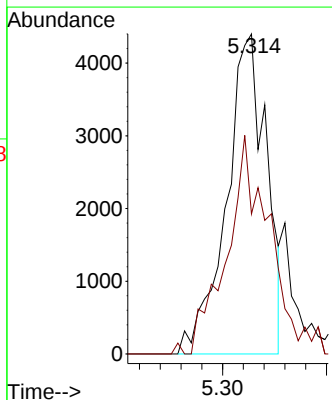
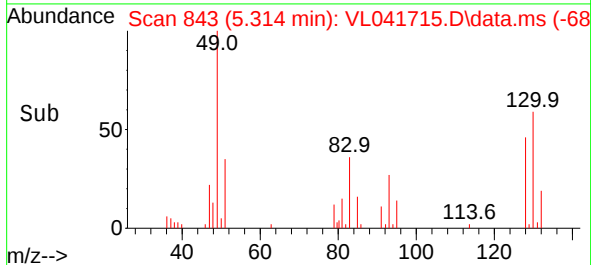
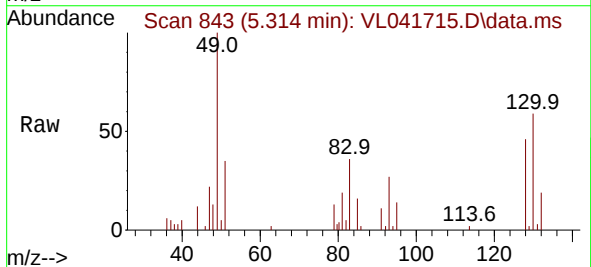


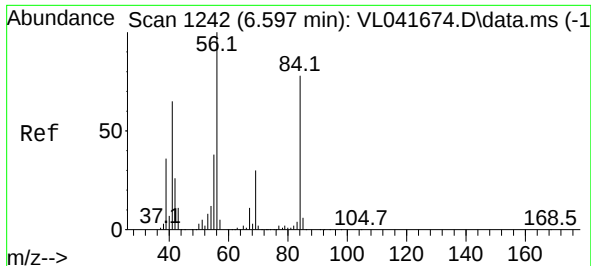
Tgt	Ion: 43	Resp:	4465
Ion	Ratio	Lower	Upper
43	100		
86	10.0	5.3	7.9#
42	19.7	8.5	12.7#
44	14.0	6.7	10.1#



#29
Chloroform
Concen: 0.034 ppbv
RT: 5.314 min Scan# 843
Delta R.T. 0.006 min
Lab File: VL041715.D
Acq: 21 Nov 2024 15:06

Tgt Ion: 83	Resp: 5891
Ion Ratio	Lower Upper
83 100	
85 40.4	51.1 76.7#





#30

Cyclohexane

Concen: 0.079 ppbv

RT: 6.677 min Scan# 11

Delta R.T. 0.045 min

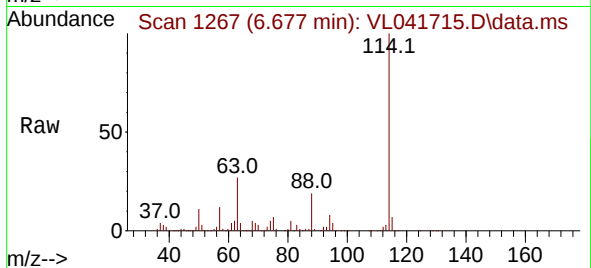
Lab File: VL041715.D

Acq: 21 Nov 2024 15:06

Instrument :

MSVOA_L

ClientSampleId :



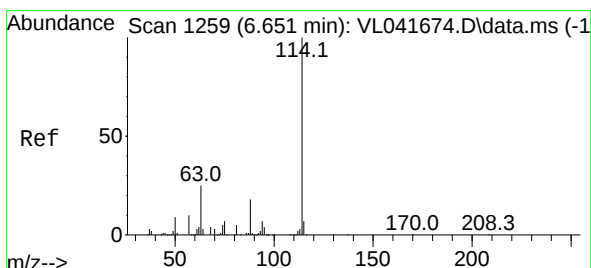
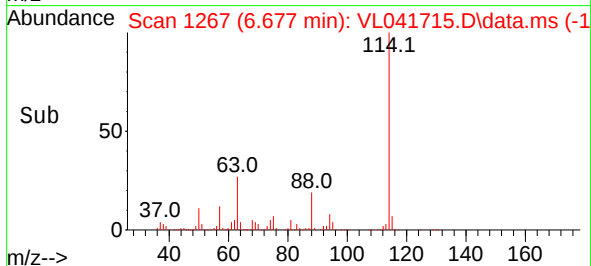
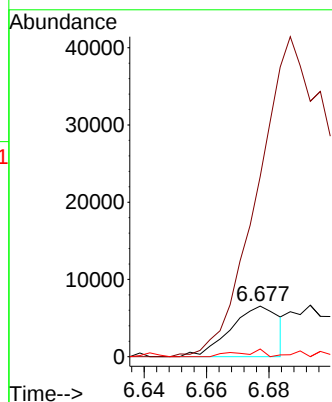
Tgt Ion: 84 Resp: 7038

Ion Ratio Lower Upper

84 100

56 1112.2 110.8 166.2#

41 13.0 70.0 105.0#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.687 min Scan# 1270

Delta R.T. 0.003 min

Lab File: VL041715.D

Acq: 21 Nov 2024 15:06

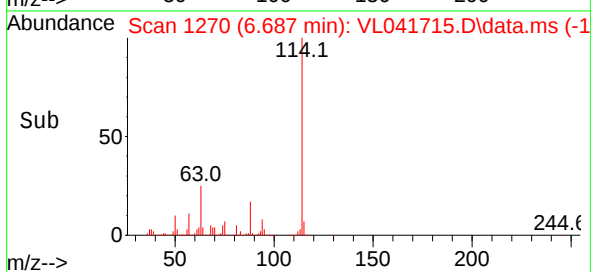
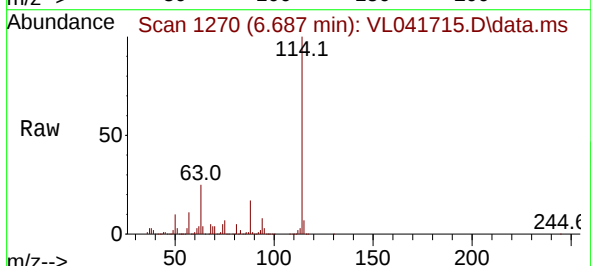
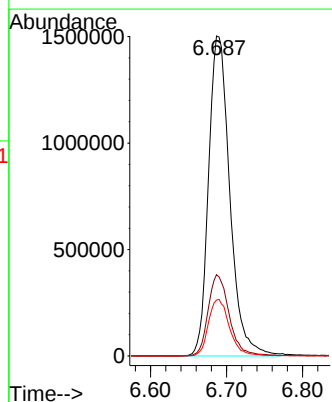
Tgt Ion: 114 Resp: 2922287

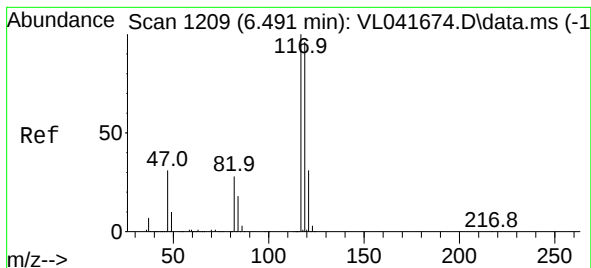
Ion Ratio Lower Upper

114 100

63 25.3 20.3 30.5

88 17.6 14.2 21.4





#35

Carbon Tetrachloride

Concen: 6.653 ppbv

RT: 6.532 min Scan# 117

Delta R.T. 0.006 min

Lab File: VL041715.D

Acq: 21 Nov 2024 15:06

Instrument :

MSVOA_L

ClientSampleId :

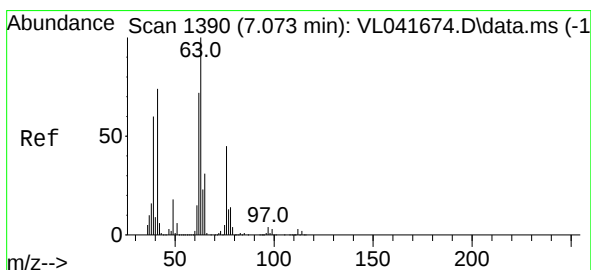
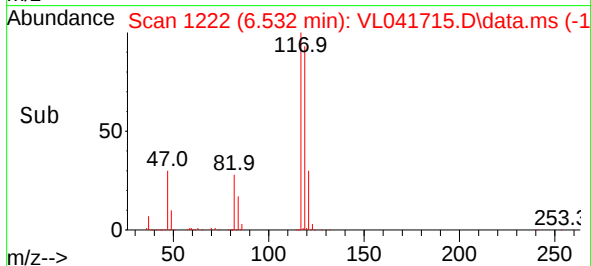
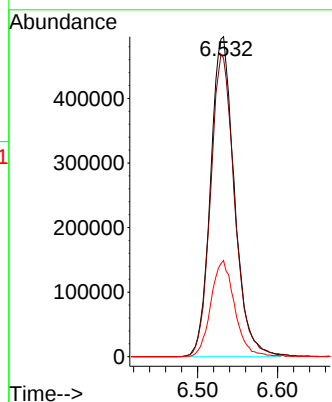
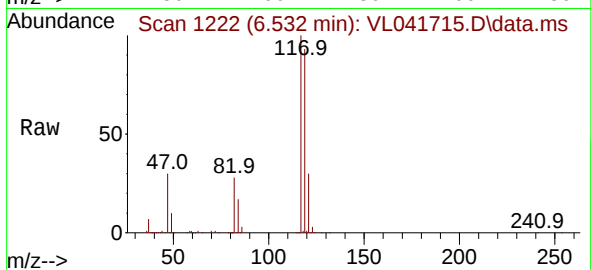
Tgt Ion:117 Resp: 1025832

Ion Ratio Lower Upper

117 100

119 93.2 77.2 115.8

121 30.1 25.0 37.4



#39

1,2-Dichloropropane

Concen: 8.539 ppbv

RT: 6.687 min Scan# 1270

Delta R.T. -0.421 min

Lab File: VL041715.D

Acq: 21 Nov 2024 15:06

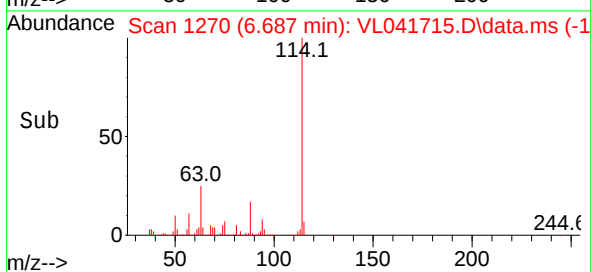
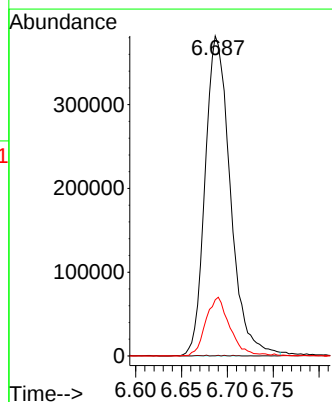
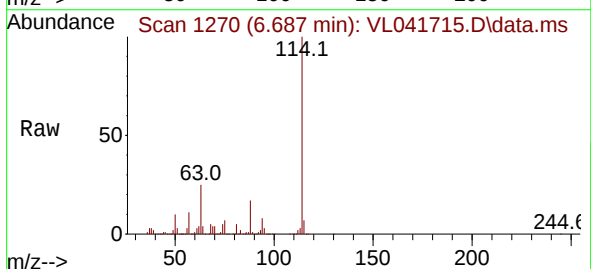
Tgt Ion: 63 Resp: 730607

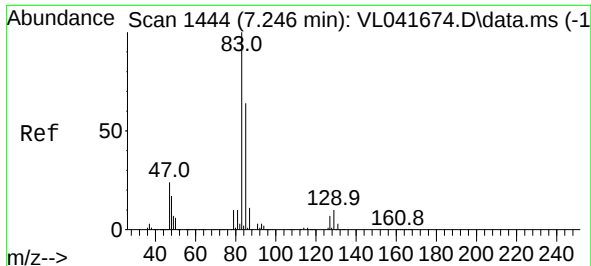
Ion Ratio Lower Upper

63 100

41 0.1 59.1 88.7#

62 17.6 57.7 86.5#





#42

Bromodichloromethane

Concen: 4.328 ppbv

RT: 7.285 min Scan# 1444

Delta R.T. 0.003 min

Lab File: VL041715.D

Acq: 21 Nov 2024 15:06

Instrument :

MSVOA_L

ClientSampleId :

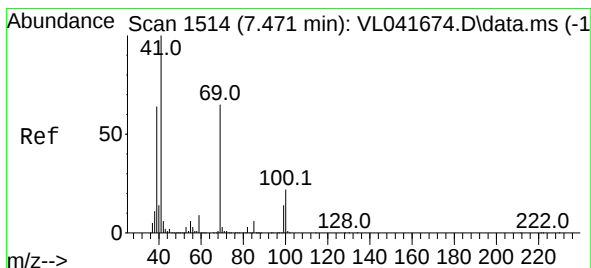
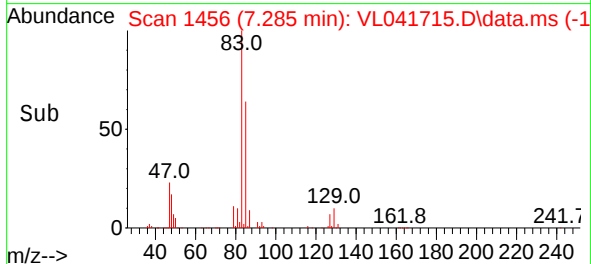
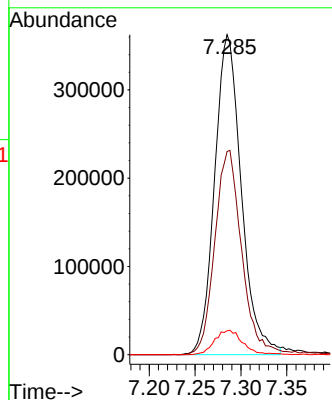
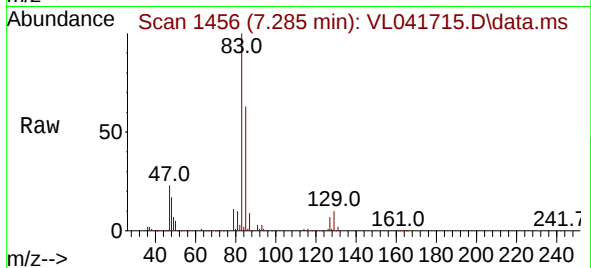
Tgt Ion: 83 Resp: 734738

Ion Ratio Lower Upper

83 100

85 63.5 51.2 76.8

127 7.5 6.0 9.0



#43

Methyl Methacrylate

Concen: 0.142 ppbv

RT: 7.600 min Scan# 1554

Delta R.T. 0.093 min

Lab File: VL041715.D

Acq: 21 Nov 2024 15:06

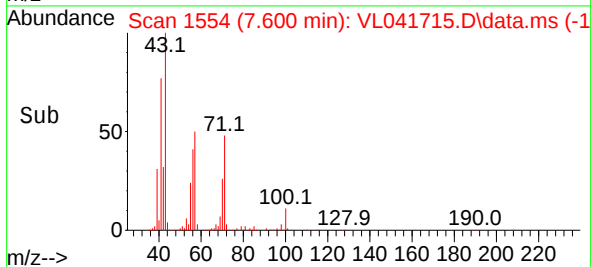
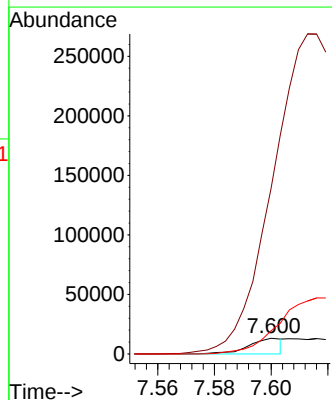
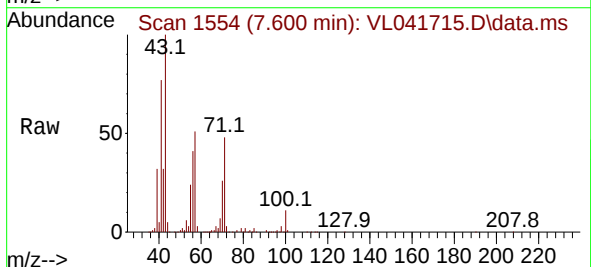
Tgt Ion: 69 Resp: 10811

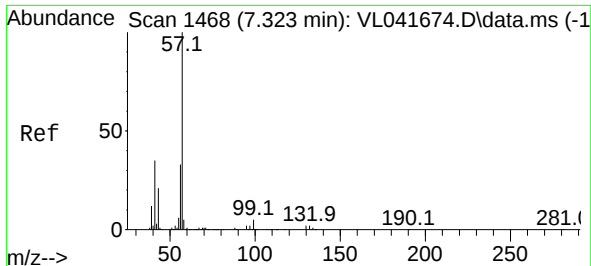
Ion Ratio Lower Upper

69 100

41 0.0 119.8 179.6#

100 0.0 27.3 40.9#





#44

2,2,4-Trimethylpentane

Concen: 1.010 ppbv

RT: 7.616 min Scan# 1

Delta R.T. 0.260 min

Lab File: VL041715.D

Acq: 21 Nov 2024 15:06

Instrument :

MSVOA_L

ClientSampleId :

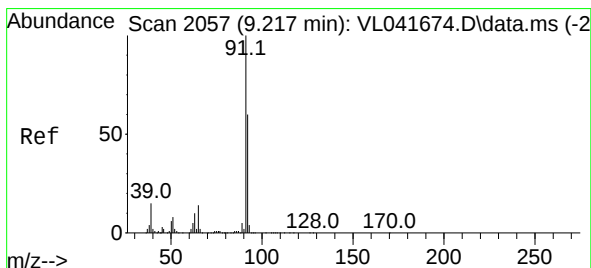
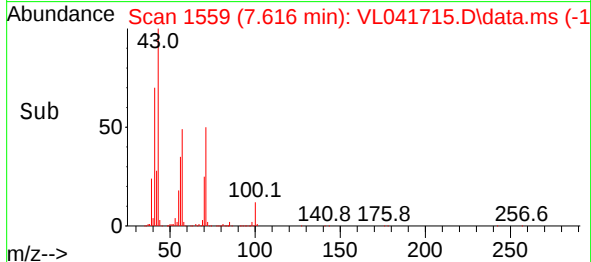
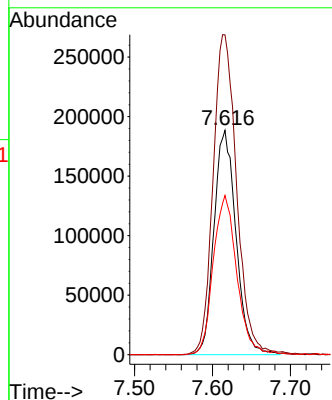
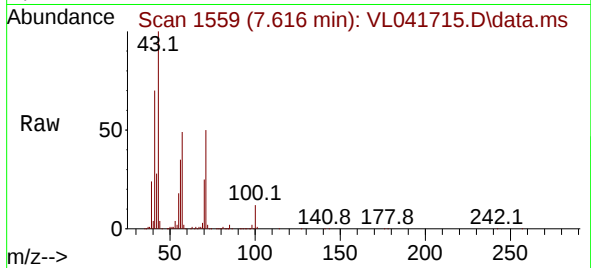
Tgt Ion: 57 Resp: 370349

Ion Ratio Lower Upper

57 100

41 153.3 27.0 40.6#

56 75.9 25.8 38.6#



#53

Toluene

Concen: 10.310 ppbv

RT: 9.256 min Scan# 2069

Delta R.T. 0.003 min

Lab File: VL041715.D

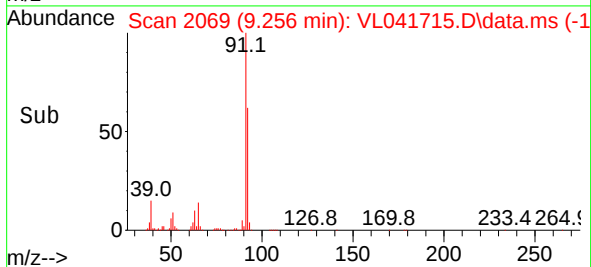
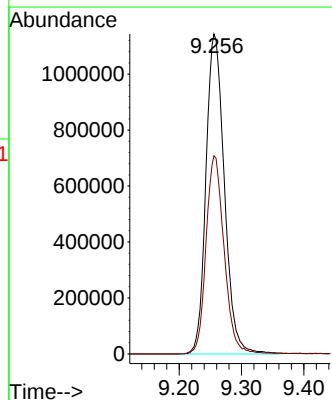
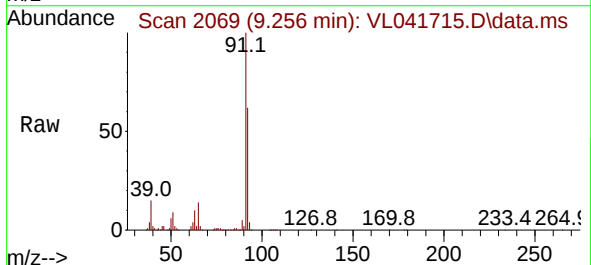
Acq: 21 Nov 2024 15:06

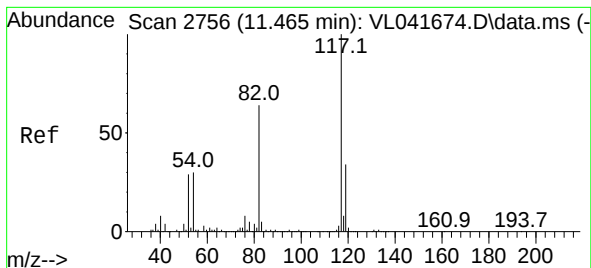
Tgt Ion: 91 Resp: 2347642

Ion Ratio Lower Upper

91 100

92 60.8 49.0 73.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.503 min Scan# 21

Delta R.T. 0.006 min

Lab File: VL041715.D

Acq: 21 Nov 2024 15:06

Instrument :

MSVOA_L

ClientSampleId :

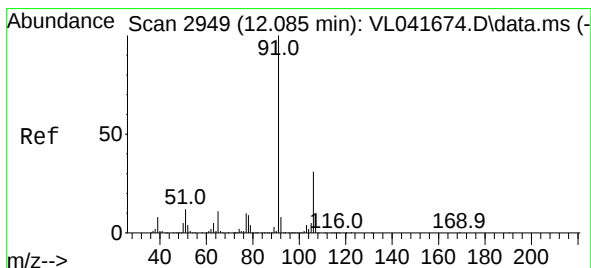
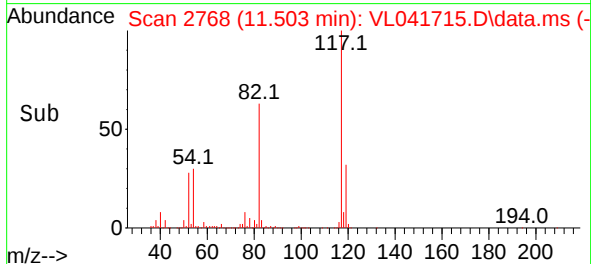
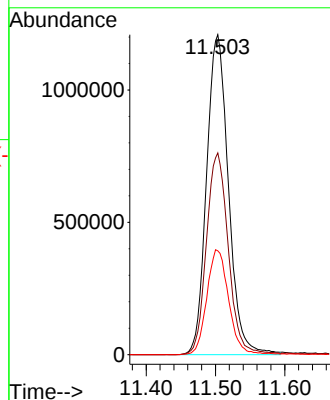
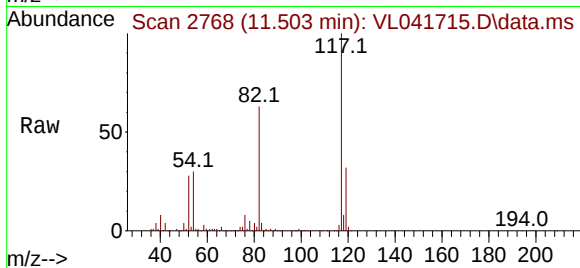
Tgt Ion:117 Resp: 2654968

Ion Ratio Lower Upper

117 100

82 63.9 49.8 74.8

119 33.0 24.2 36.4



#58

Ethyl Benzene

Concen: 9.774 ppbv

RT: 12.410 min Scan# 3050

Delta R.T. 0.289 min

Lab File: VL041715.D

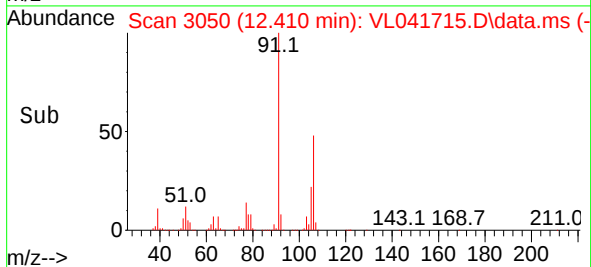
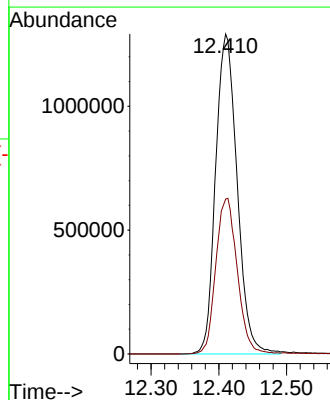
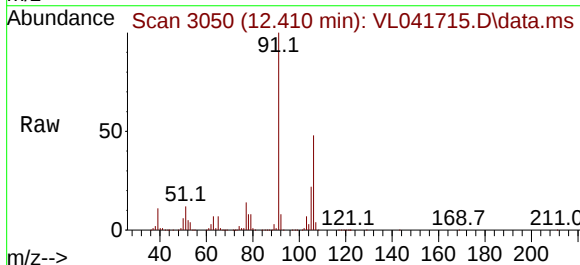
Acq: 21 Nov 2024 15:06

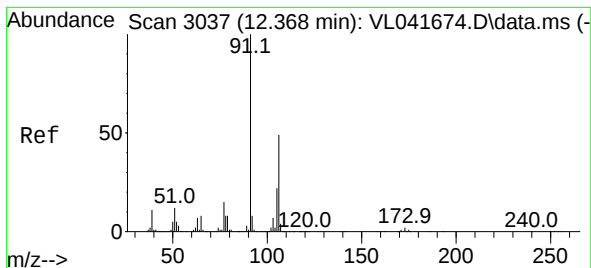
Tgt Ion: 91 Resp: 2844916

Ion Ratio Lower Upper

91 100

106 48.4 24.9 37.3#





#59

m/p-Xylene

Concen: 10.915 ppbv

RT: 12.410 min Scan# 3050

Delta R.T. 0.006 min

Lab File: VL041715.D

Acq: 21 Nov 2024 15:06

Instrument :

MSVOA_L

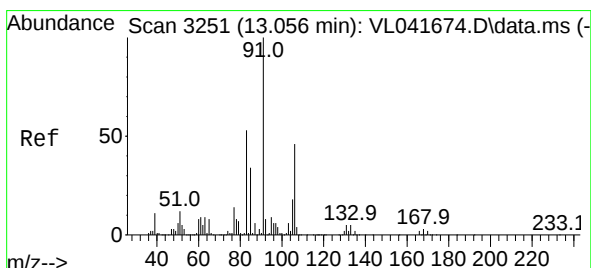
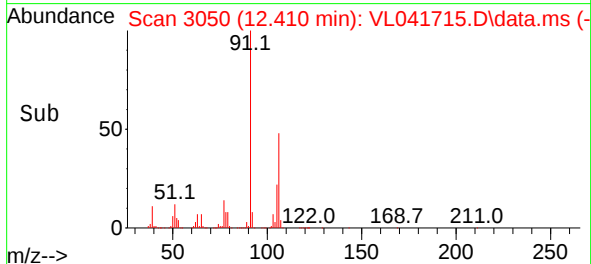
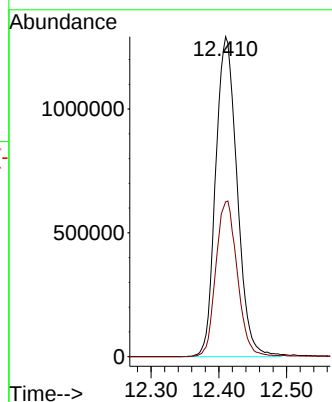
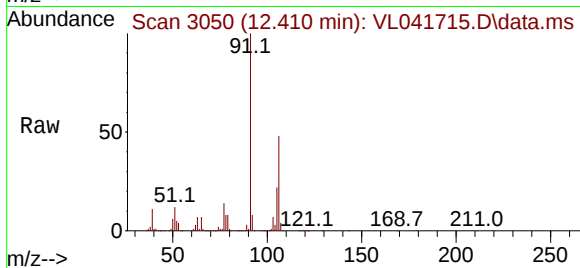
ClientSampleId :

Tgt Ion: 91 Resp: 2844916

Ion Ratio Lower Upper

91 100

106 48.9 36.9 55.3



#60

o-Xylene

Concen: 8.617 ppbv

RT: 13.092 min Scan# 3262

Delta R.T. 0.003 min

Lab File: VL041715.D

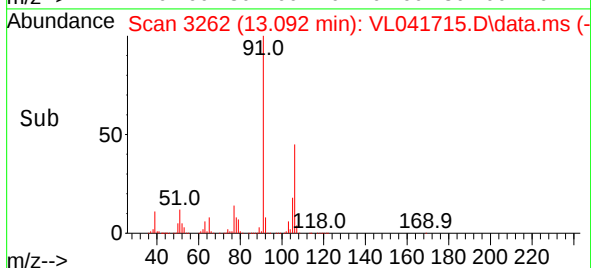
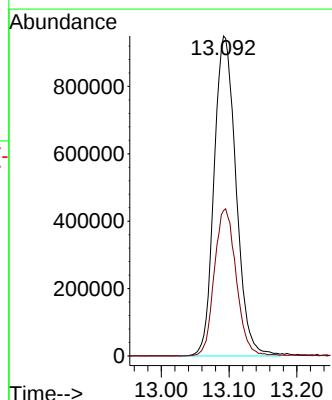
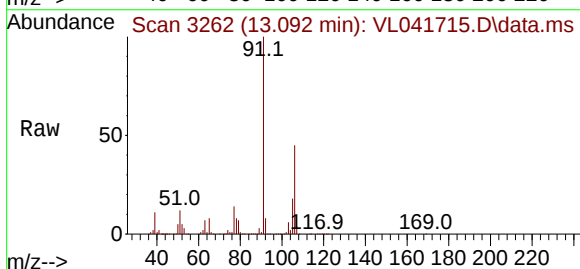
Acq: 21 Nov 2024 15:06

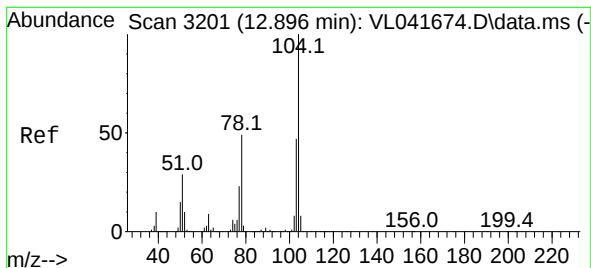
Tgt Ion: 91 Resp: 2141646

Ion Ratio Lower Upper

91 100

106 46.2 23.2 69.6





#61

Styrene

Concen: 0.282 ppbv

RT: 13.092 min Scan# 31

Delta R.T. 0.164 min MSVOA_L

Lab File: VL041715.D

Acq: 21 Nov 2024 15:06

Instrument :

ClientSampleId :

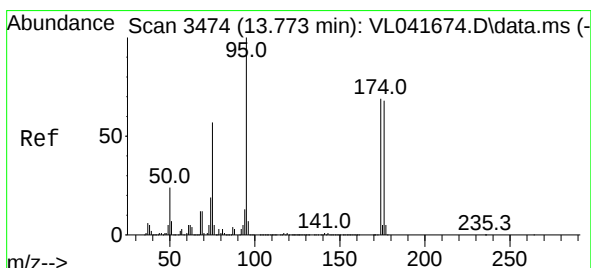
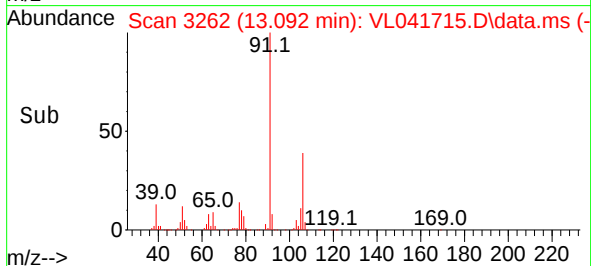
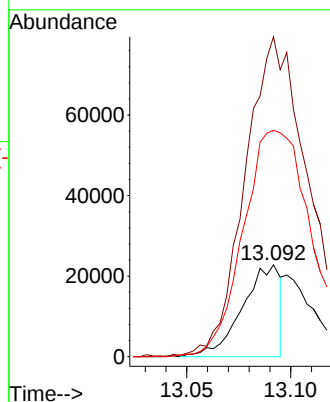
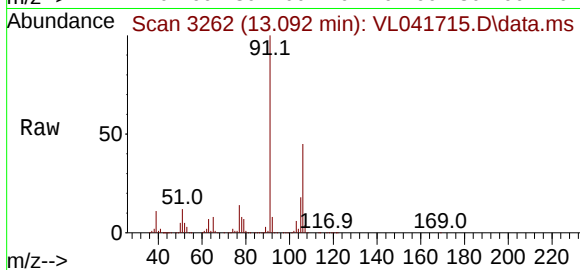
Tgt Ion:104 Resp: 28930

Ion Ratio Lower Upper

104 100

78 598.8 39.8 59.8#

103 456.8 37.4 56.0#



#68

1-Bromo-4-Fluorobenzene

Concen: 10.590 ppbv

RT: 13.812 min Scan# 3486

Delta R.T. 0.006 min

Lab File: VL041715.D

Acq: 21 Nov 2024 15:06

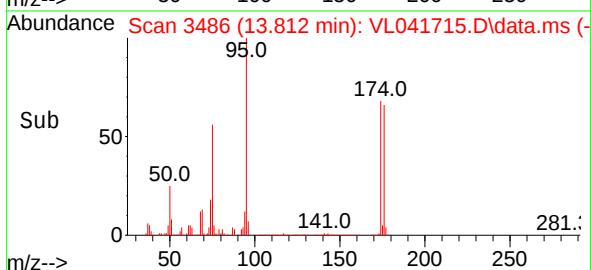
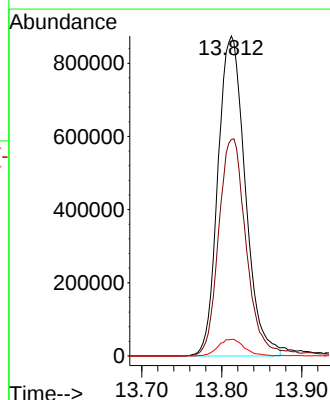
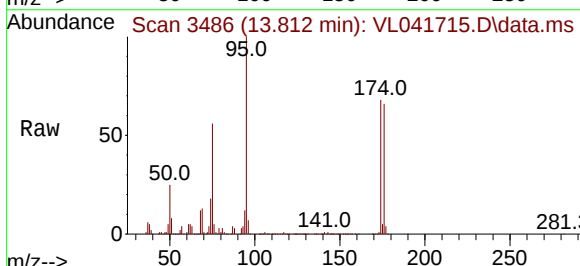
Tgt Ion: 95 Resp: 2071565

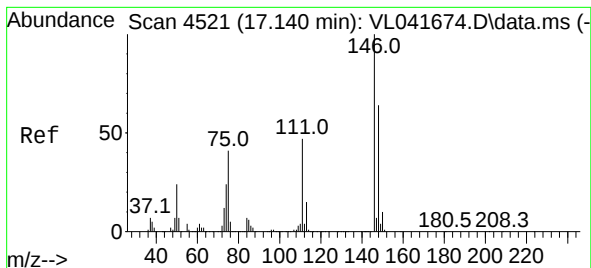
Ion Ratio Lower Upper

95 100

174 70.1 55.6 83.4

175 5.1 4.2 6.2





#77

1,2-Dichlorobenzene

Concen: 6.735 ppbv

RT: 17.182 min Scan# 4534

Delta R.T. 0.006 min

Lab File: VL041715.D

Acq: 21 Nov 2024 15:06

Instrument :

MSVOA_L

ClientSampleId :

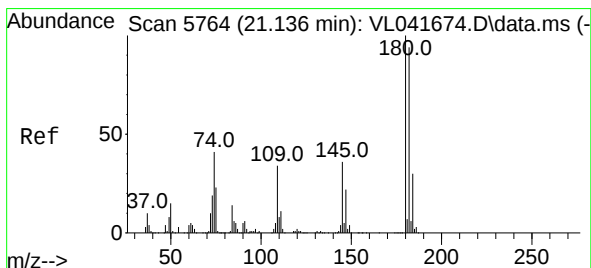
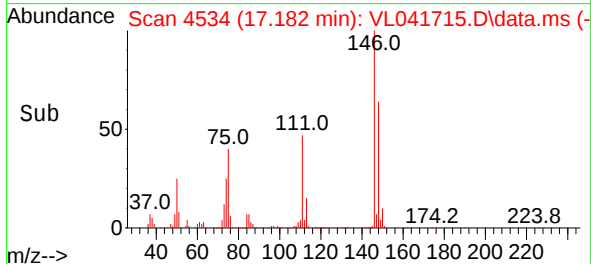
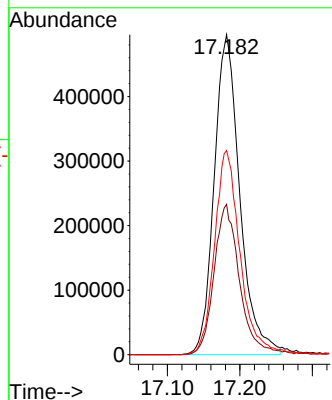
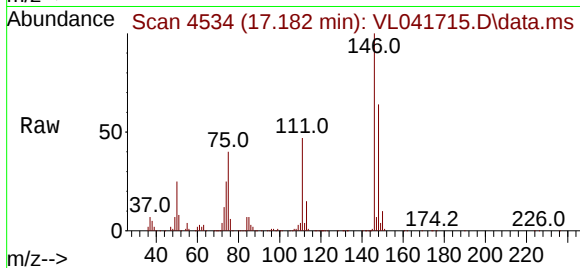
Tgt Ion:146 Resp: 1217081

Ion Ratio Lower Upper

146 100

111 47.3 23.4 70.3

148 64.3 32.1 96.5



#81

1,2,4-Trichlorobenzene

Concen: 4.475 ppbv

RT: 21.188 min Scan# 5780

Delta R.T. 0.013 min

Lab File: VL041715.D

Acq: 21 Nov 2024 15:06

Tgt Ion:180 Resp: 511649

Ion Ratio Lower Upper

180 100

182 104.1 78.2 117.2

184 31.8 25.0 37.4

