

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040521\
 Data File : VL036684.D
 Acq On : 5 Apr 2021 22:33
 Operator : SY/AP
 Sample : M1945-01DL2 40X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Apr 06 02:01:27 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 25 09:42:40 2021
 QLast Update : Thu Mar 25 09:42:40 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1349778	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3302681	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2912298	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	2302645	9.92	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.20%

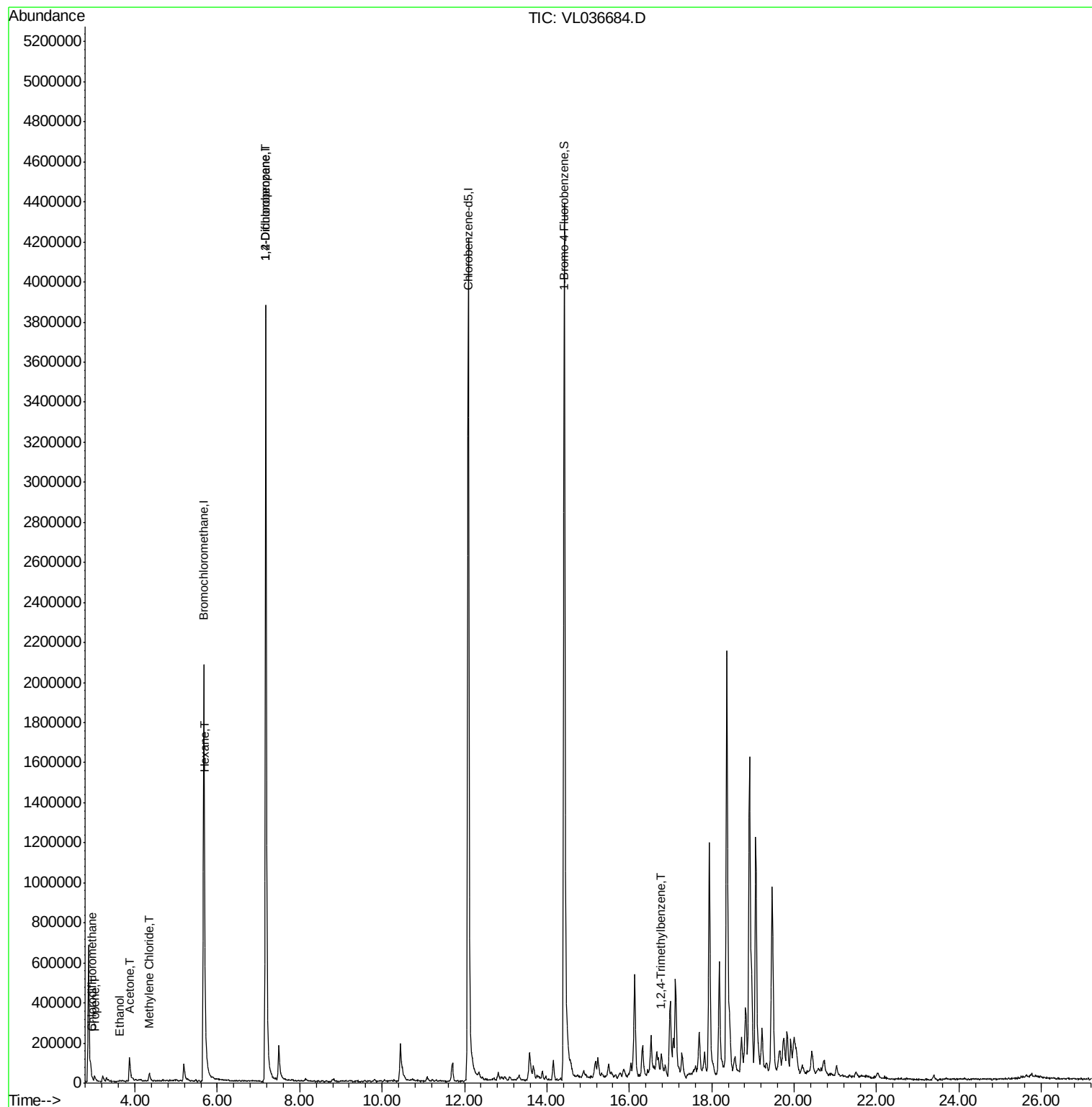
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.96	51	8002	0.032	ppbv #	65
9) Propene	3.02	41	7722	0.096	ppbv	92
13) Ethanol	3.61	45	375	0.039	ppbv #	34
15) Acetone	3.87	43	132844	1.000	ppbv #	62
20) Methylene Chloride	4.35	84	9002	0.145	ppbv	85
26) Hexane	5.69	57	8876	0.061	ppbv #	24
39) 1,2-Dichloropropane	7.18	63	846297	6.849	ppbv #	23
74) 1,2,4-Trimethylbenzene	16.77	105	20472	0.052	ppbv #	71

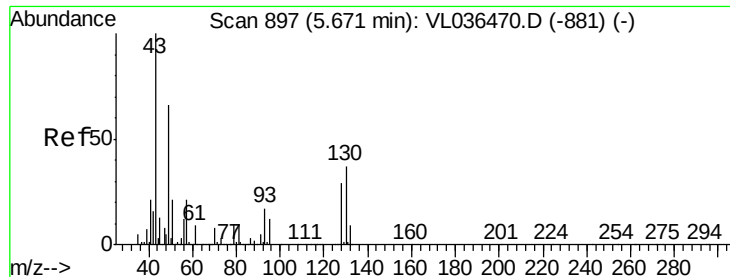
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 896

Delta R.T. -0.00 min

Lab File: VL036684.D

Acq: 5 Apr 2021 22:33

Instrument :

MSVOA_L

ClientSampleId :

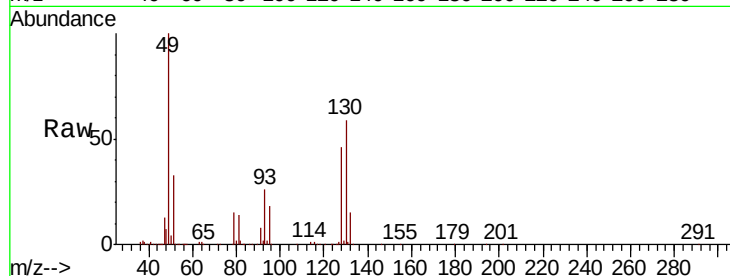
Tot Ion: 49 Resp: 1349778

Ion Ratio Lower Upper

49 100

128 47.1 23.5 70.6

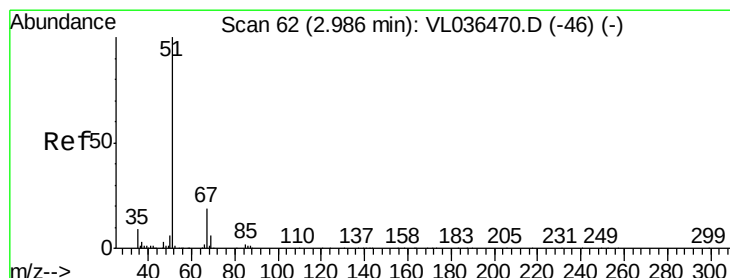
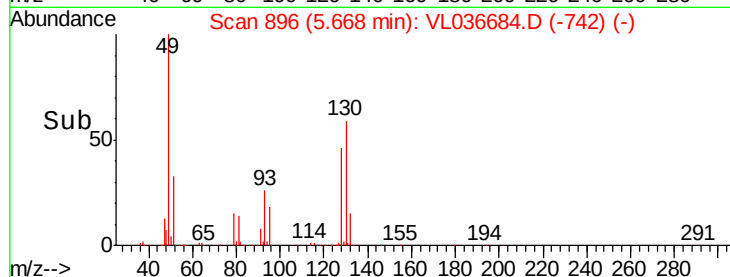
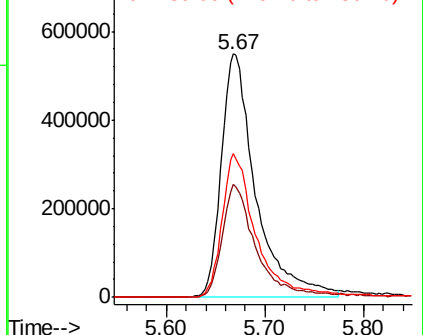
130 59.4 29.1 87.4



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#3

Chlorodifluoromethane

Concen: 0.032 ppbv

RT: 2.96 min Scan# 55

Delta R.T. -0.02 min

Lab File: VL036684.D

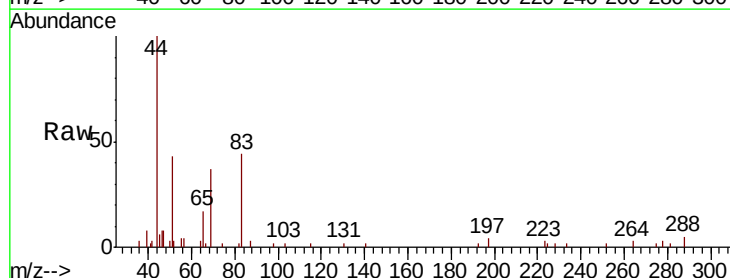
Acq: 5 Apr 2021 22:33

Tgt Ion: 51 Resp: 8002

Ion Ratio Lower Upper

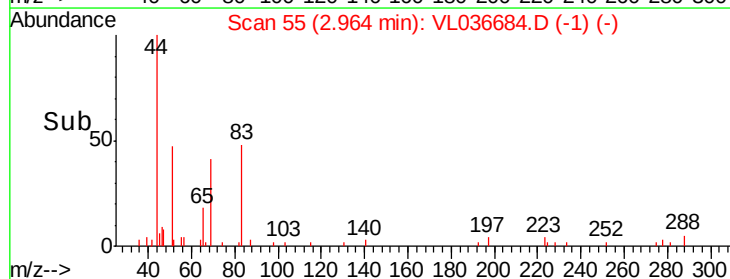
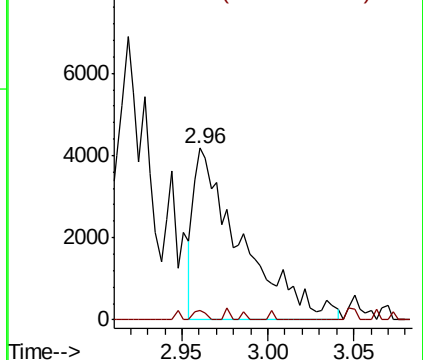
51 100

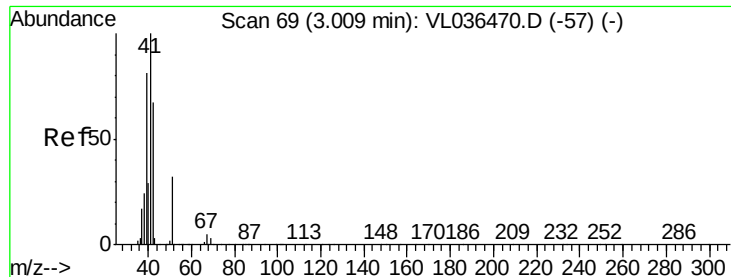
67 2.6 14.7 22.1#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 0.096 ppbv

RT: 3.02 min Scan# 73

Delta R.T. 0.01 min

Lab File: VL036684.D

Acq: 5 Apr 2021 22:33

Instrument :

MSVOA_L

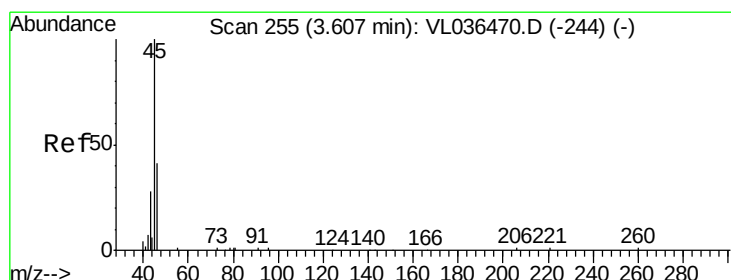
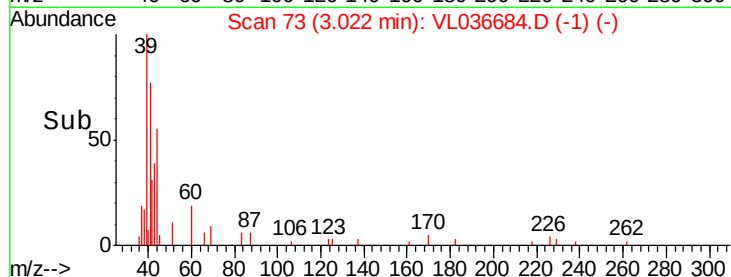
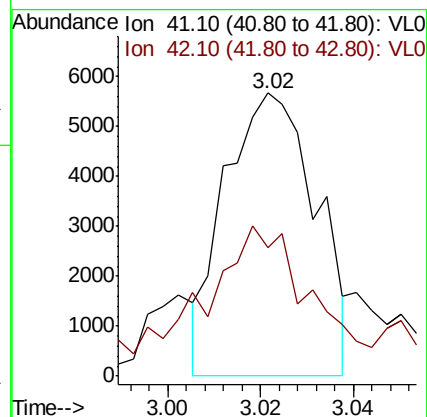
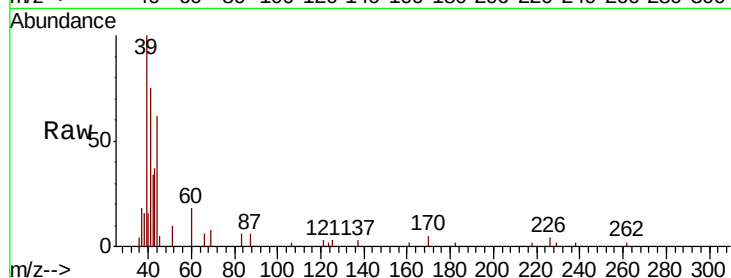
ClientSampleId :

Tot Ion: 41 Resp: 7722

Ion Ratio Lower Upper

41 100

42 78.2 57.0 85.4



#13

Ethanol

Concen: 0.039 ppbv

RT: 3.61 min Scan# 256

Delta R.T. 0.00 min

Lab File: VL036684.D

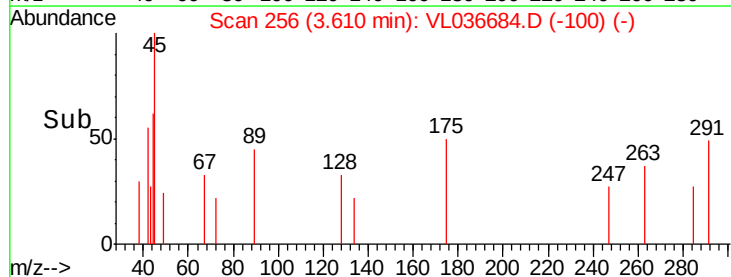
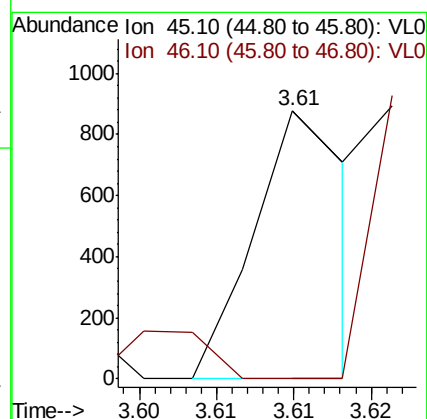
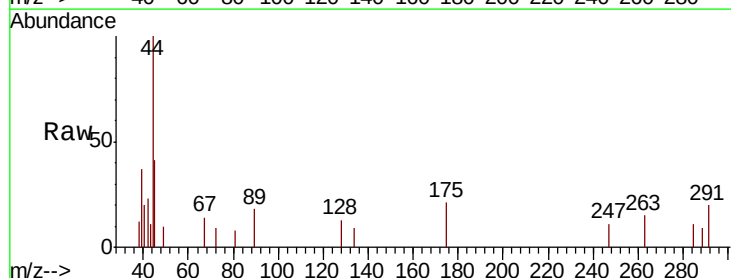
Acq: 5 Apr 2021 22:33

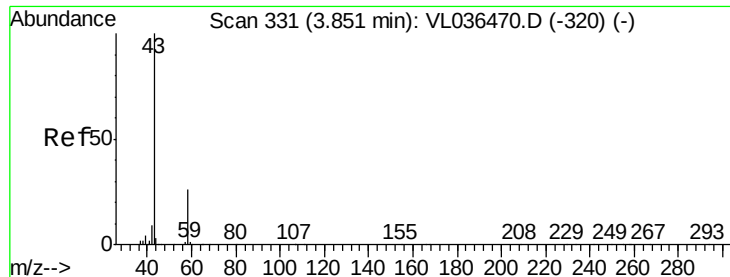
Tgt Ion: 45 Resp: 375

Ion Ratio Lower Upper

45 100

46 0.0 16.6 66.2#





#15

Acetone

Concen: 1.000 ppbv

RT: 3.87 min Scan# 337

Delta R.T. 0.02 min

Lab File: VL036684.D

Acq: 5 Apr 2021 22:33

Instrument :

MSVOA_L

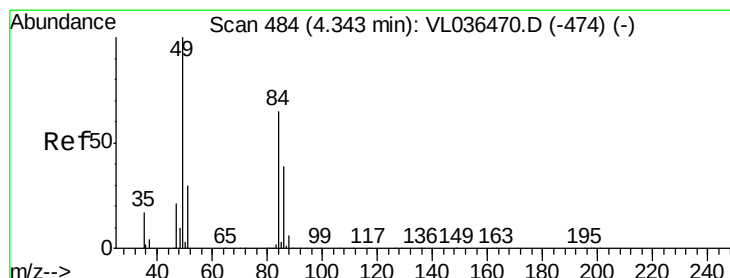
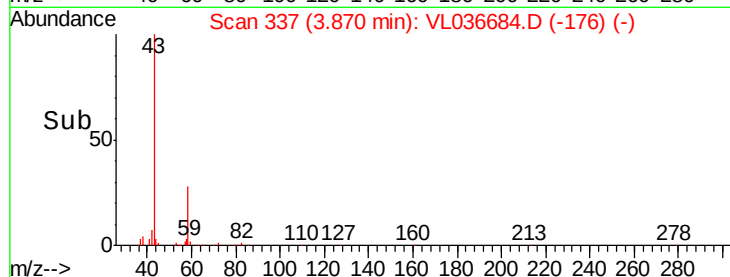
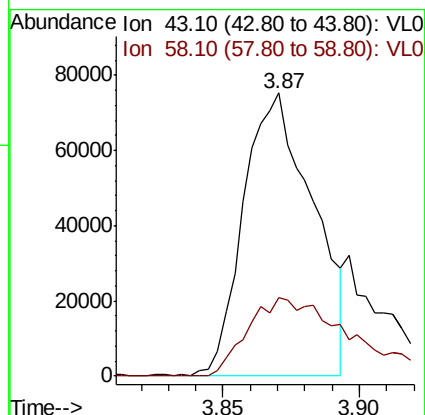
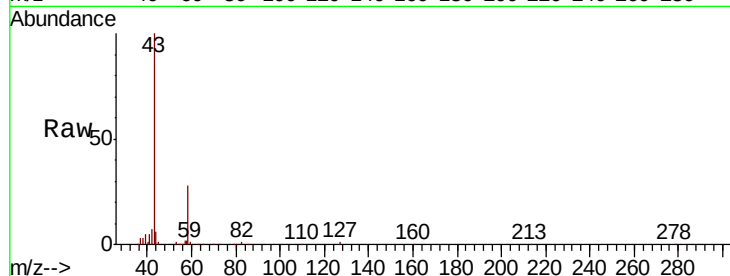
ClientSampleId :

Tot Ion: 43 Resp: 132844

Ion Ratio Lower Upper

43 100

58 45.9 21.2 31.8#



#20

Methylene Chloride

Concen: 0.145 ppbv

RT: 4.35 min Scan# 485

Delta R.T. 0.00 min

Lab File: VL036684.D

Acq: 5 Apr 2021 22:33

Tgt Ion: 84 Resp: 9002

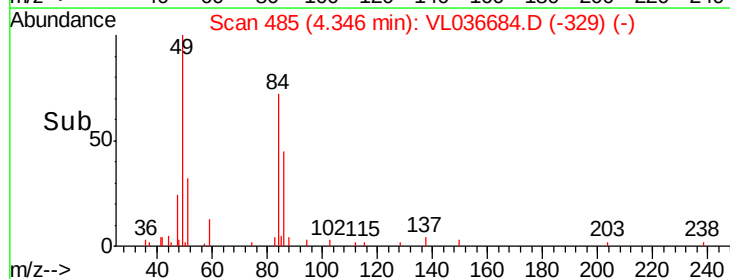
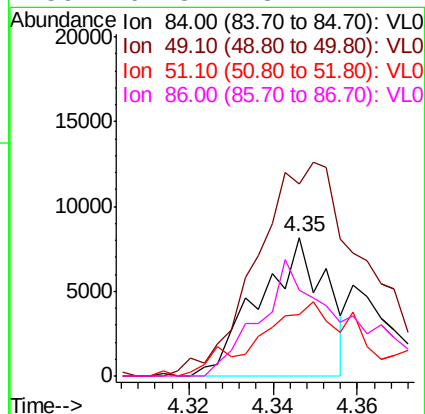
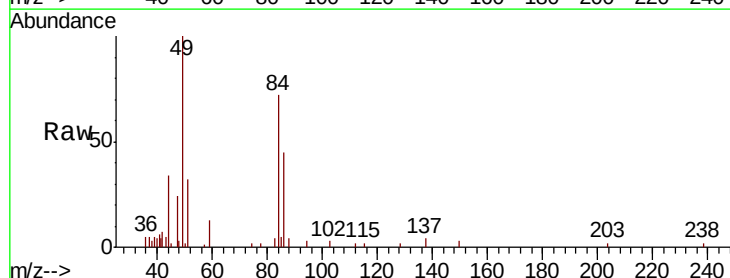
Ion Ratio Lower Upper

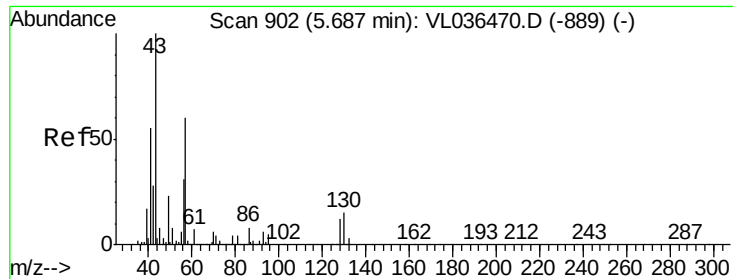
84 100

49 125.4 122.9 184.3

51 41.7 36.9 55.3

86 62.3 48.2 72.4





#26

Hexane

Concen: 0.061 ppbv

RT: 5.69 min Scan# 904

Delta R.T. 0.01 min

Lab File: VL036684.D

Acq: 5 Apr 2021 22:33

Instrument :

MSVOA_L

ClientSampled :

Tot Ion: 57 Resp: 8876

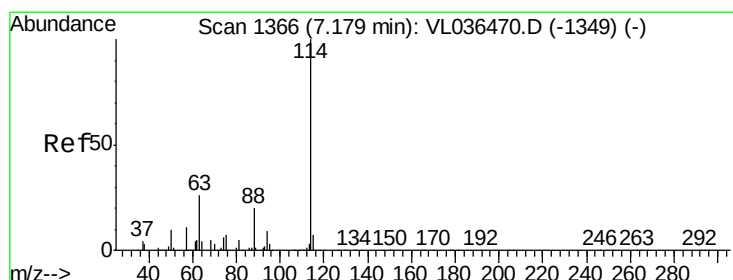
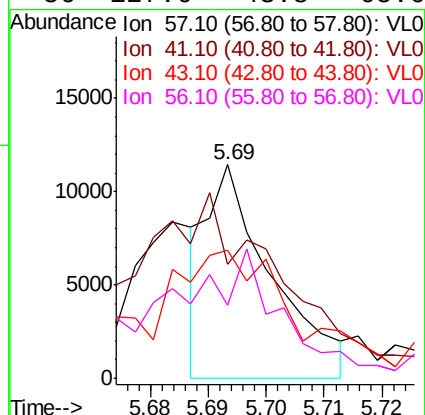
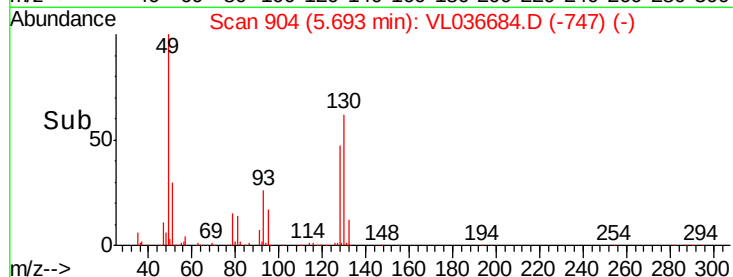
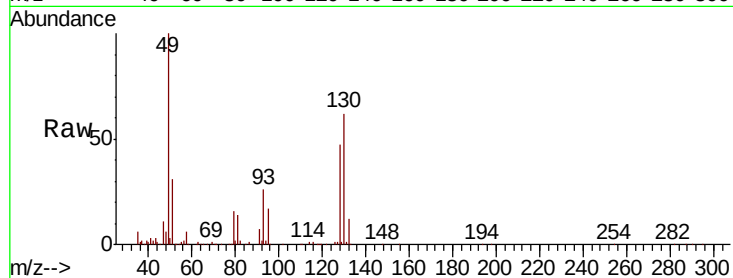
Ion Ratio Lower Upper

57 100

41 240.1 77.2 115.8#

43 156.7 173.8 260.6#

56 127.6 43.8 65.6#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 min Scan# 1365

Delta R.T. -0.00 min

Lab File: VL036684.D

Acq: 5 Apr 2021 22:33

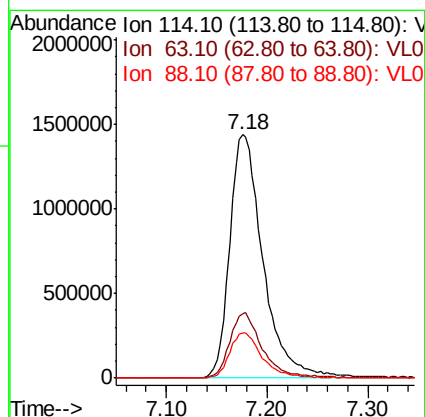
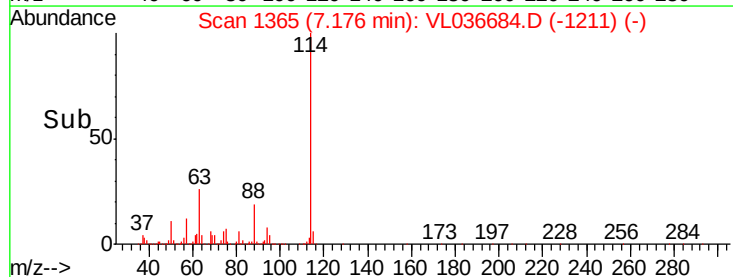
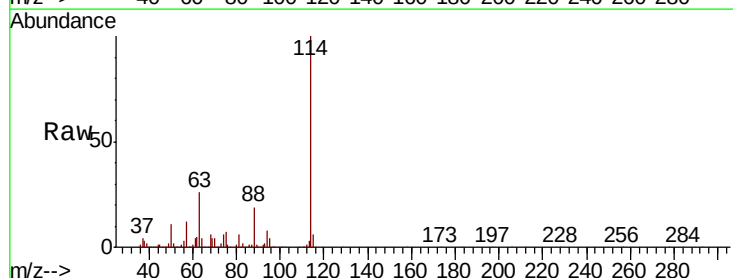
Tgt Ion: 114 Resp: 3302681

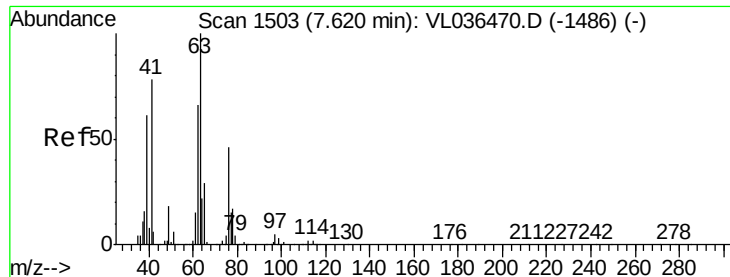
Ion Ratio Lower Upper

114 100

63 26.5 22.4 33.6

88 18.7 15.4 23.0

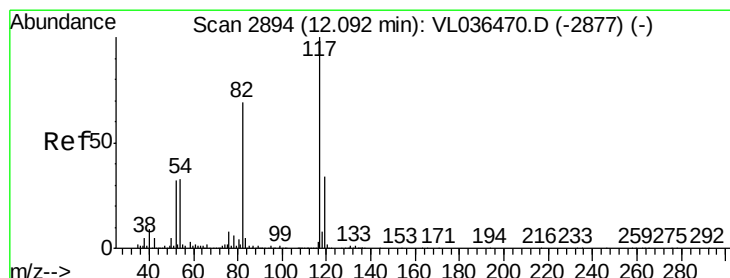
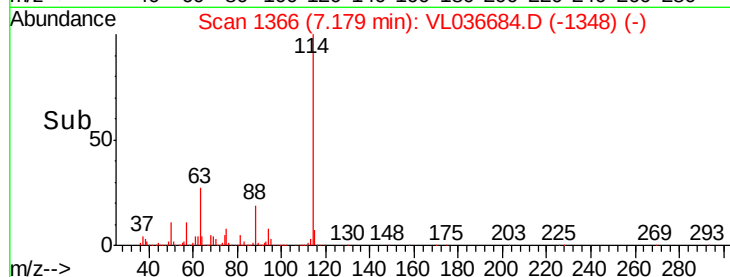
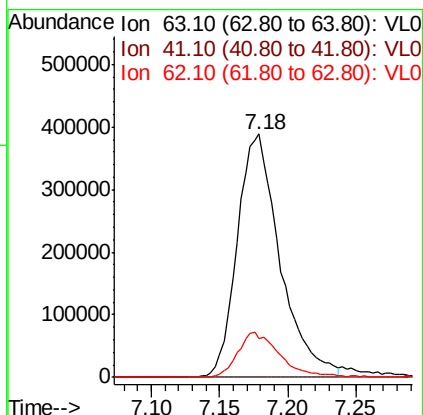
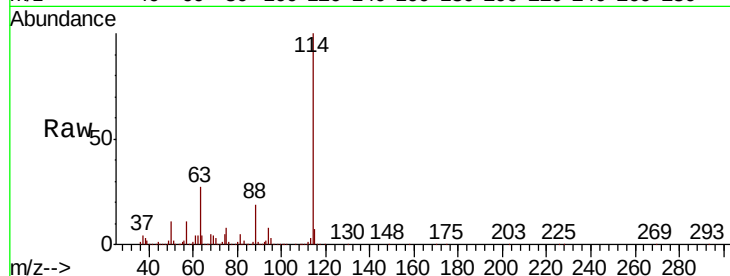




#39
 1,2-Dichloropropane
 Concen: 6.849 ppbv
 RT: 7.18 min Scan# 1366
 Delta R.T. -0.44 min
 Lab File: VL036684.D
 Acq: 5 Apr 2021 22:33

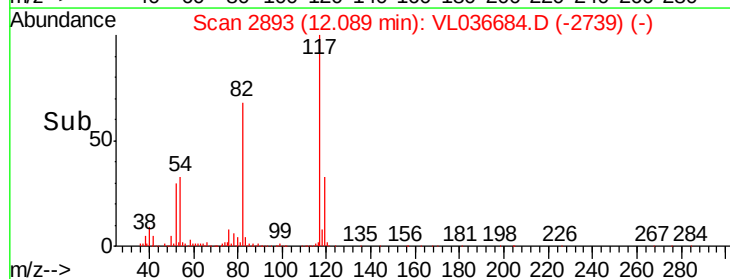
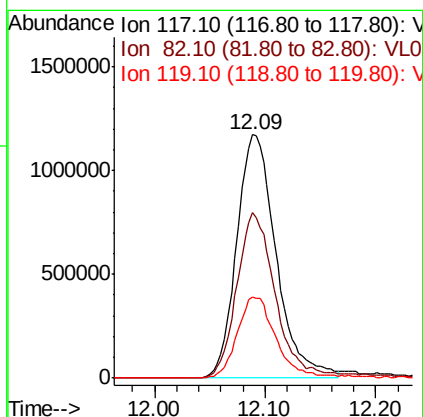
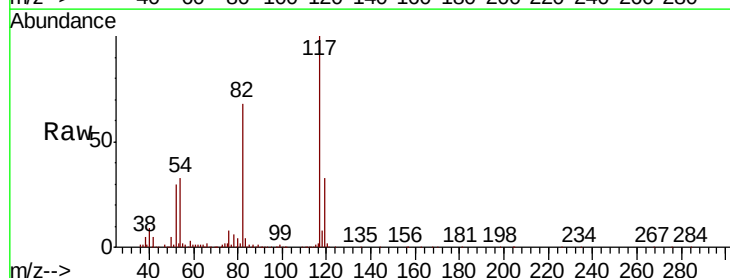
Instrument :
 MSVOA_L
 ClientSampleId :

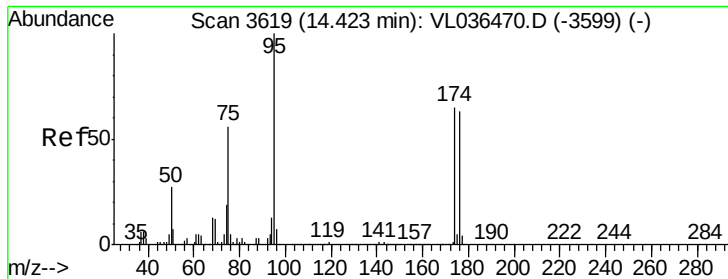
Tot Ion	Ratio	Lower	Upper
63	100		
41	0.2	62.4	93.6#
62	16.0	52.8	79.2#



#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.09 min Scan# 2893
 Delta R.T. -0.00 min
 Lab File: VL036684.D
 Acq: 5 Apr 2021 22:33

Tgt Ion	Ratio	Lower	Upper
117	100		
82	68.4	57.4	86.0
119	33.3	47.4	71.0#





#68

1-Bromo-4-Fluorobenzene

Concen: 9.920 ppbv

RT: 14.42 min Scan# 3619

Delta R.T. -0.00 min

Lab File: VL036684.D

Acq: 5 Apr 2021 22:33

Instrument :

MSVOA_L

ClientSampleId :

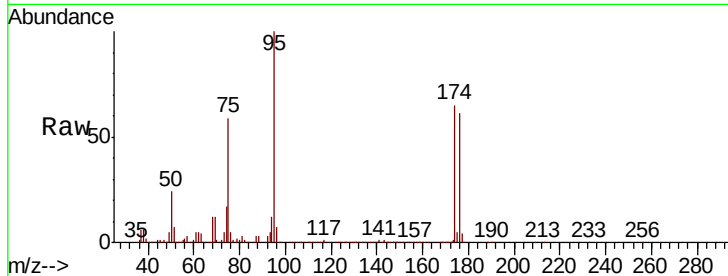
Tot Ion: 95 Resp: 2302645

Ion Ratio Lower Upper

95 100

174 66.7 51.0 76.6

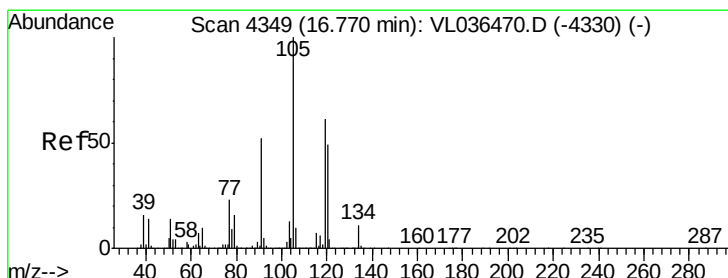
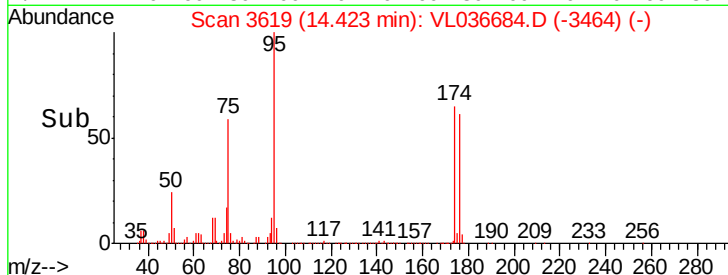
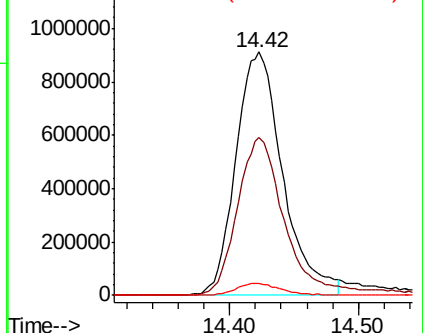
175 4.9 3.9 5.9



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V



#74

1,2,4-Trimethylbenzene

Concen: 0.052 ppbv

RT: 16.77 min Scan# 4348

Delta R.T. -0.00 min

Lab File: VL036684.D

Acq: 5 Apr 2021 22:33

Tgt Ion:105 Resp: 20472

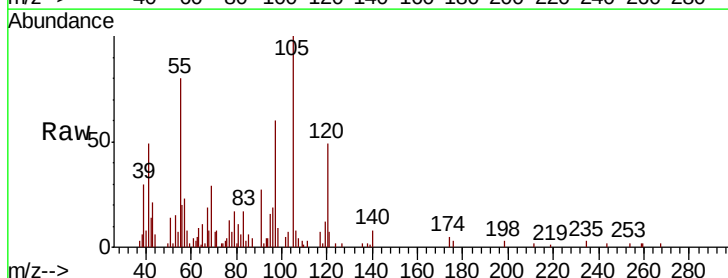
Ion Ratio Lower Upper

105 100

120 40.5 39.2 58.8

91 24.2 42.6 64.0#

77 5.8 18.6 28.0#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

