

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030320\
 Data File : VL034765.D
 Acq On : 3 Mar 2020 15:48
 Operator : SY/AP
 Sample : L1704-03DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-3-4DL

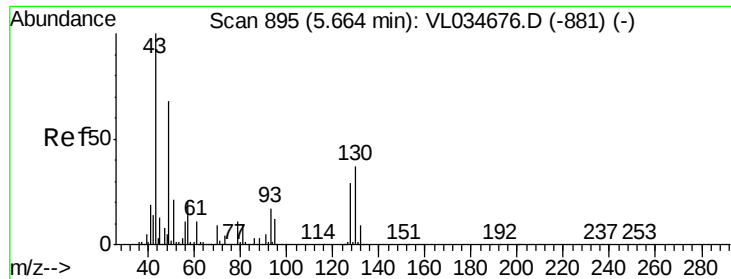
Quant Time: Mar 04 05:47:02 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL022620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Feb 28 01:15:02 2020
 QLast Update : Fri Feb 28 01:15:02 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1047913	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.20	114	2106096	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.14	117	2091686	10.00	ppbv	0.02

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.48	95	1784290	10.40	ppbv	0.03	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.00%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	9774	0.059	ppbv	99
3) Chlorodifluoromethane	2.94	51	23782	0.210	ppbv #	67
4) Chloromethane	3.12	50	4231	0.067	ppbv	100
9) Propene	3.18	41	34951	0.739	ppbv	100
13) Ethanol	3.61	45	39233	2.627	ppbv	99
15) Acetone	3.84	43	2164590	18.127	ppbv	99
16) 1,3-Butadiene	3.29	39	2727	0.049	ppbv #	49
19) Isopropyl Alcohol	3.99	45	4274	0.060	ppbv #	94
20) Methylene Chloride	4.34	84	22079	0.497	ppbv #	80
23) Vinyl Acetate	5.08	43	10212	0.063	ppbv #	77
30) Cyclohexane	7.20	84	5516	0.073	ppbv #	1
39) 1,2-Dichloropropane	7.20	63	630047	8.706	ppbv #	24

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 901

Delta R.T. 0.02 min

Lab File: VL034765.D

Acq: 3 Mar 2020 15:48

Instrument :

MSVOA_L

ClientSampleId :

IA-3-4DL

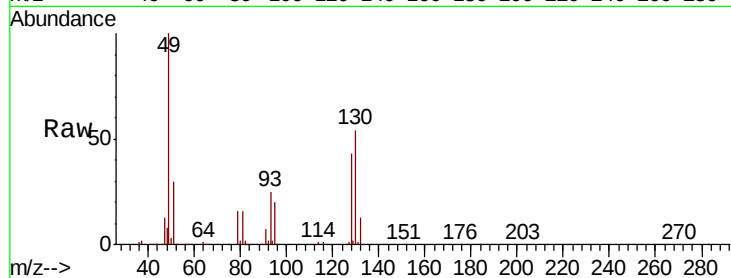
Tot Ion: 49 Resp: 1047913

Ion Ratio Lower Upper

49 100

128 44.5 21.6 65.0

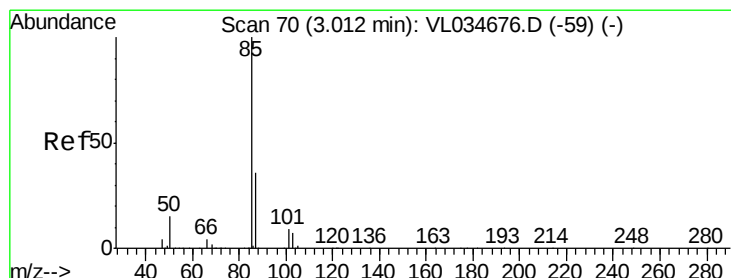
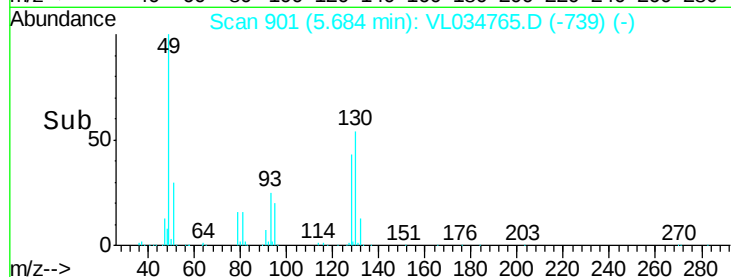
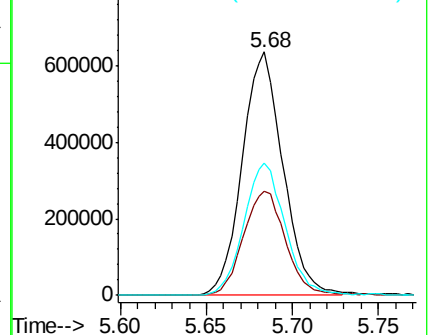
130 55.3 27.7 83.1



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



#2

Dichlorodifluoromethane

Concen: 0.059 ppbv

RT: 3.03 min Scan# 75

Delta R.T. 0.02 min

Lab File: VL034765.D

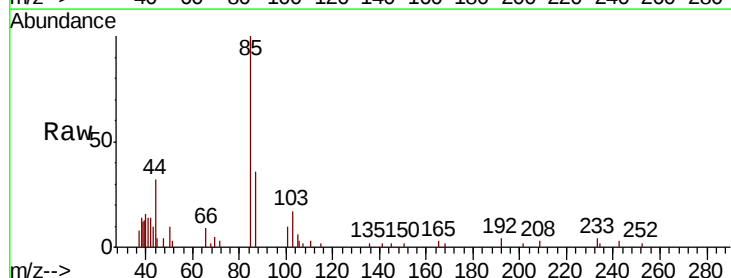
Acq: 3 Mar 2020 15:48

Tgt Ion: 85 Resp: 9774

Ion Ratio Lower Upper

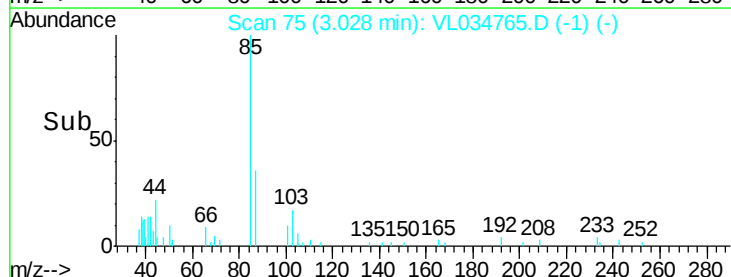
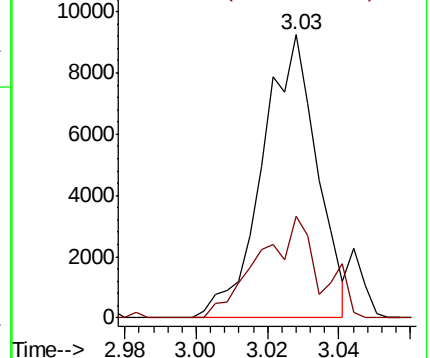
85 100

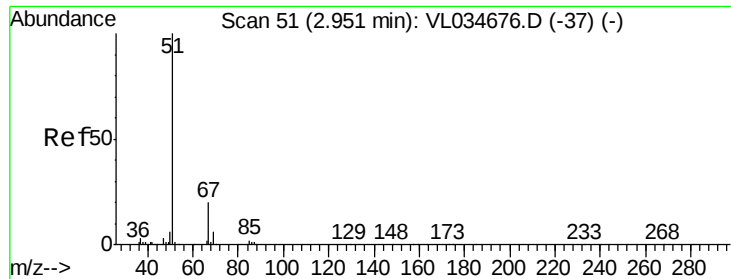
87 36.1 29.2 43.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.210 ppbv

RT: 2.94 min Scan# 48

Delta R.T. -0.01 min

Lab File: VL034765.D

Acq: 3 Mar 2020 15:48

Instrument :

MSVOA_L

ClientSampleId :

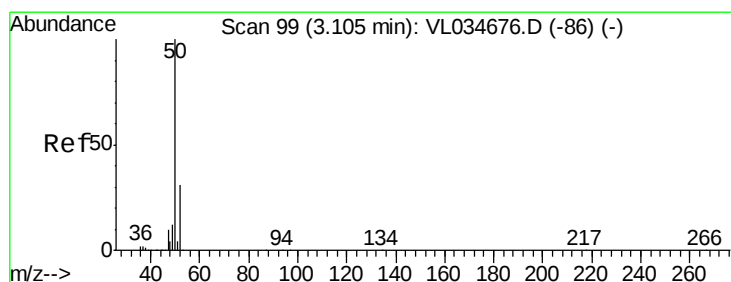
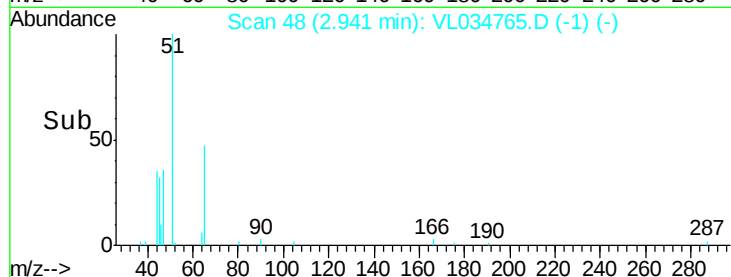
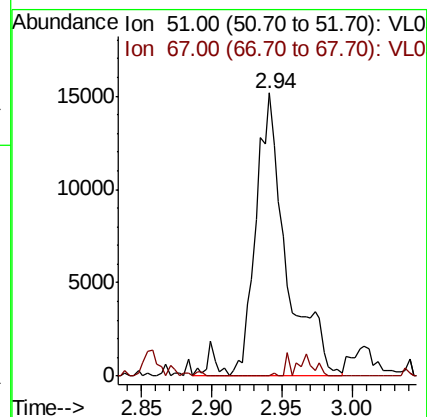
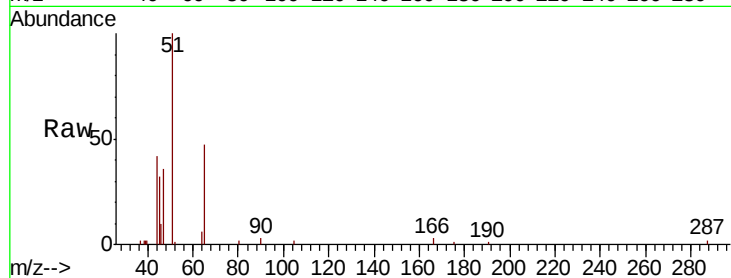
IA-3-4DL

Tot Ion: 51 Resp: 23782

Ion Ratio Lower Upper

51 100

67 4.6 15.5 23.3#



#4

Chloromethane

Concen: 0.067 ppbv

RT: 3.12 min Scan# 103

Delta R.T. 0.01 min

Lab File: VL034765.D

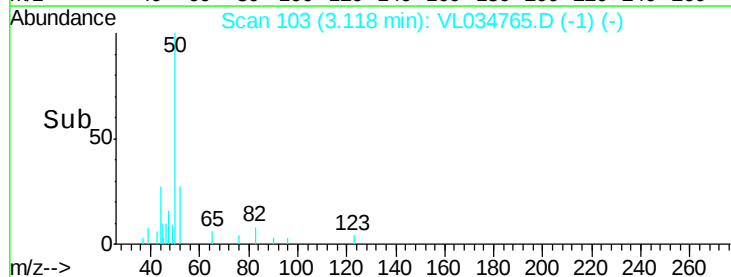
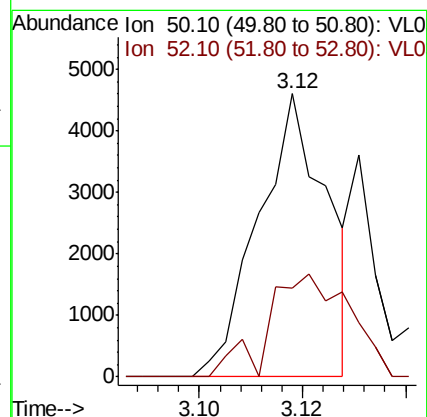
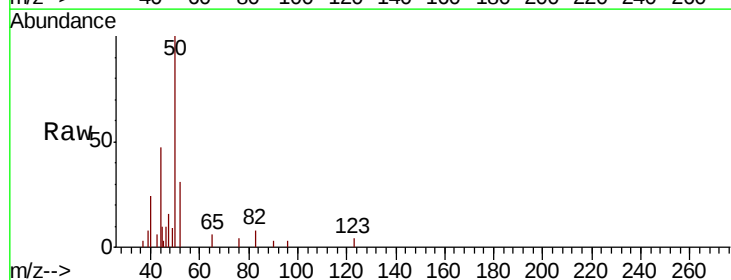
Acq: 3 Mar 2020 15:48

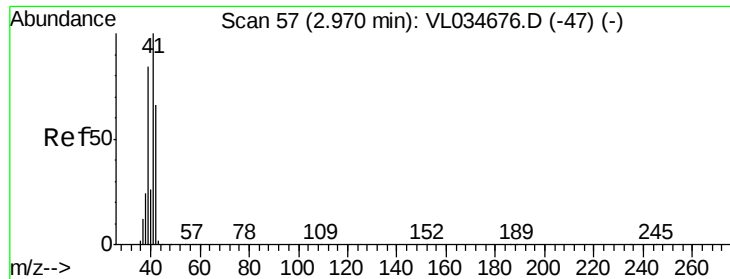
Tgt Ion: 50 Resp: 4231

Ion Ratio Lower Upper

50 100

52 31.3 25.0 37.4





#9

Propene

Concen: 0.739 ppbv

RT: 3.18 min Scan# 123

Delta R.T. 0.21 min

Lab File: VL034765.D

Acq: 3 Mar 2020 15:48

Instrument :

MSVOA_L

ClientSampleId :

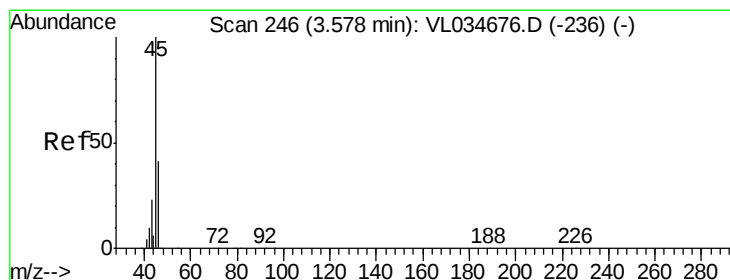
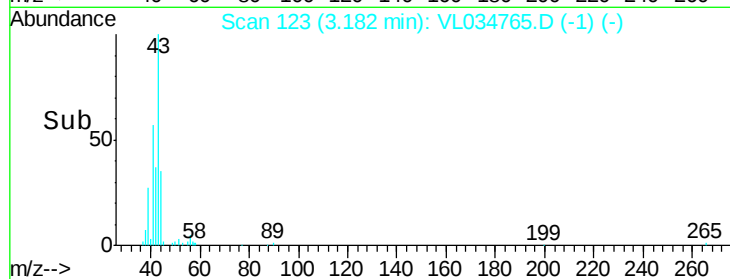
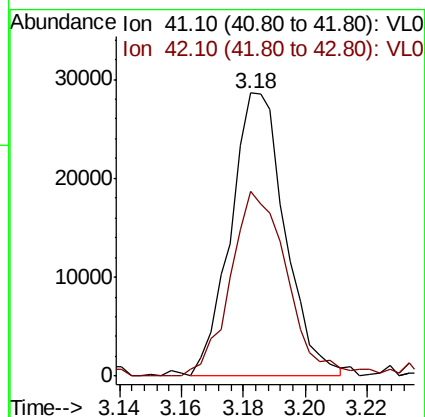
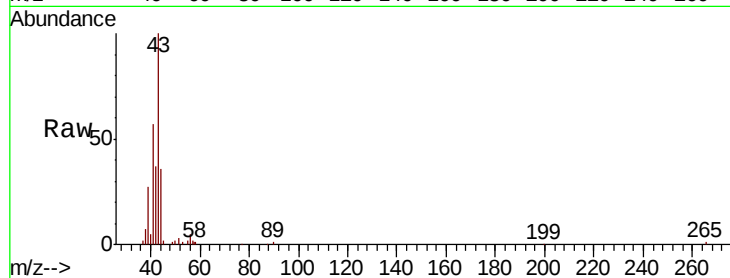
IA-3-4DL

Tot Ion: 41 Resp: 34951

Ion Ratio Lower Upper

41 100

42 68.3 54.9 82.3



#13

Ethanol

Concen: 2.627 ppbv

RT: 3.61 min Scan# 255

Delta R.T. 0.03 min

Lab File: VL034765.D

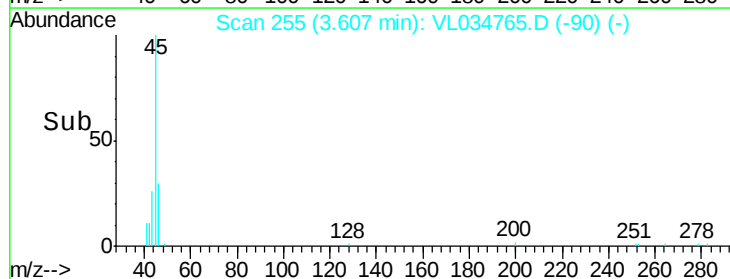
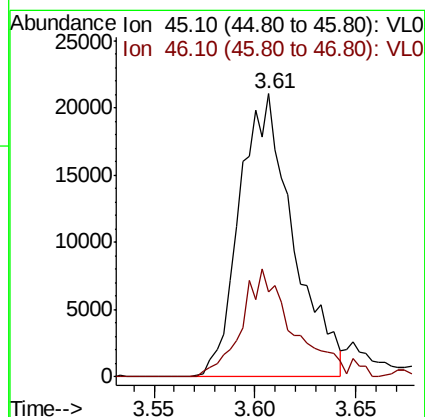
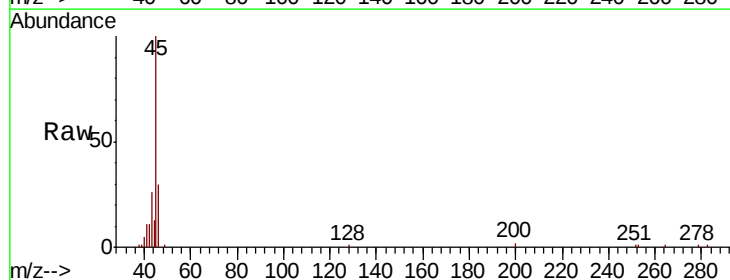
Acq: 3 Mar 2020 15:48

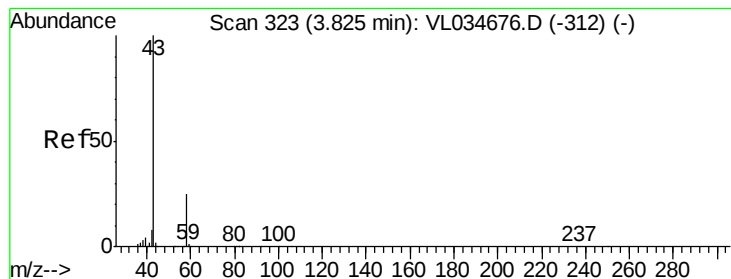
Tgt Ion: 45 Resp: 39233

Ion Ratio Lower Upper

45 100

46 37.6 15.4 61.4





#15

Acetone

Concen: 18.127 ppbv

RT: 3.84 min Scan# 327

Delta R.T. 0.01 min

Lab File: VL034765.D

Acq: 3 Mar 2020 15:48

Instrument :

MSVOA_L

ClientSampleId :

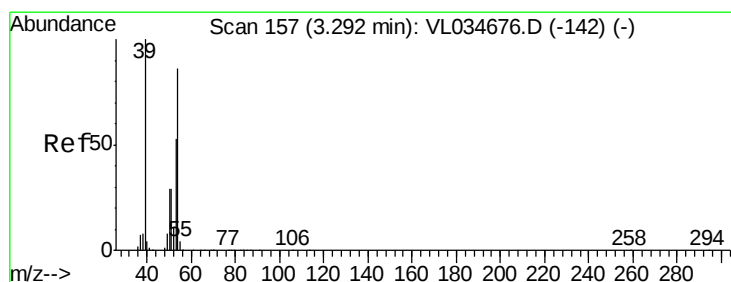
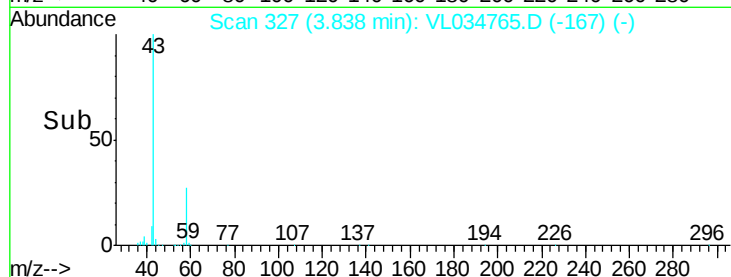
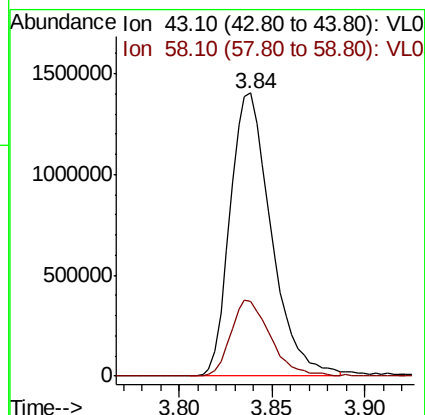
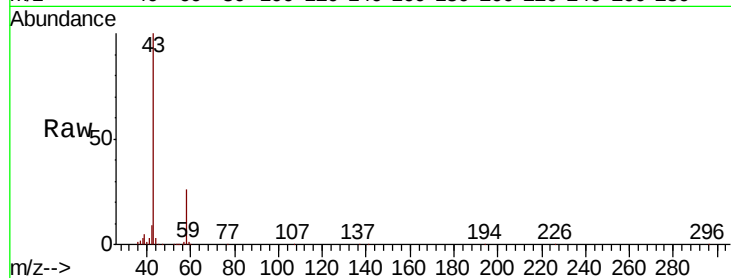
IA-3-4DL

Tot Ion: 43 Resp: 2164590

Ion Ratio Lower Upper

43 100

58 26.4 21.4 32.0



#16

1,3-Butadiene

Concen: 0.049 ppbv

RT: 3.29 min Scan# 157

Delta R.T. 0.00 min

Lab File: VL034765.D

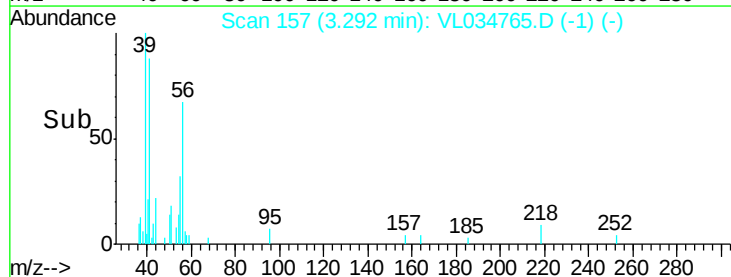
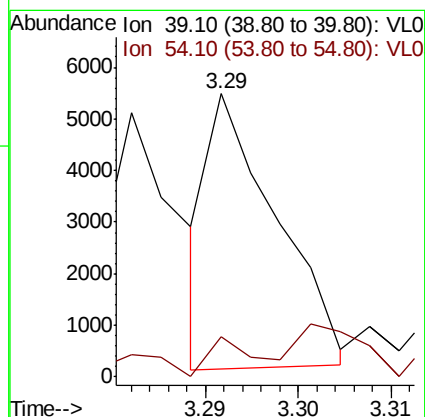
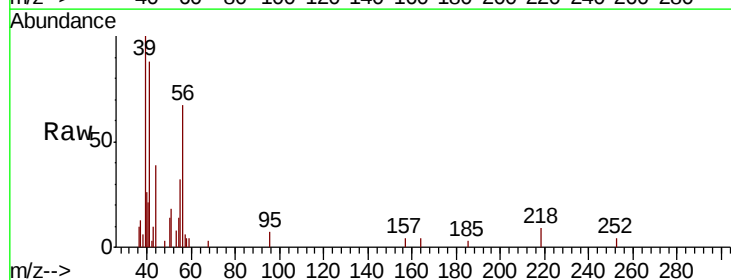
Acq: 3 Mar 2020 15:48

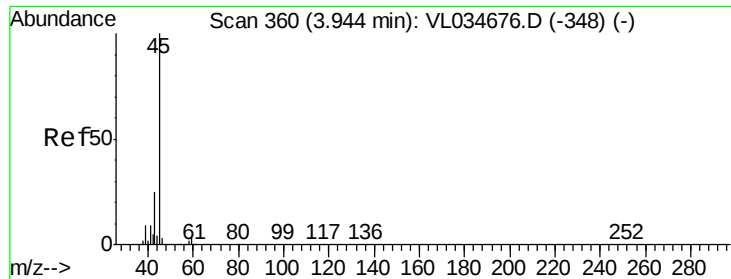
Tgt Ion: 39 Resp: 2727

Ion Ratio Lower Upper

39 100

54 37.9 67.0 100.6#





#19

Isopropyl Alcohol

Concen: 0.060 ppbv

RT: 3.99 min Scan# 375

Delta R.T. 0.05 min

Lab File: VL034765.D

Acq: 3 Mar 2020 15:48

Instrument :

MSVOA_L

ClientSampleId :

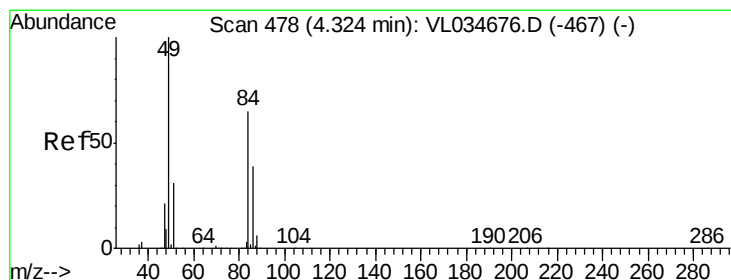
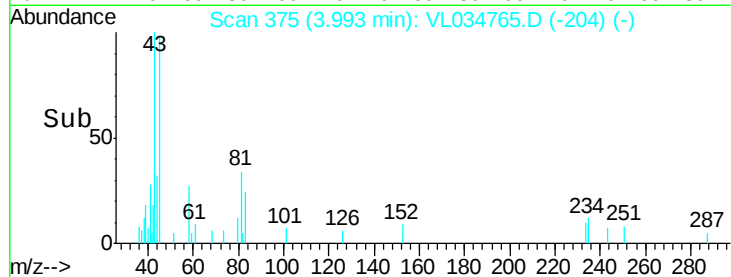
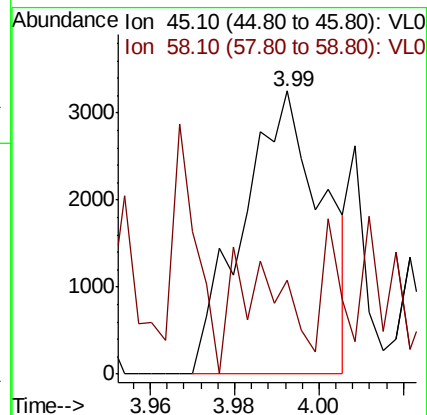
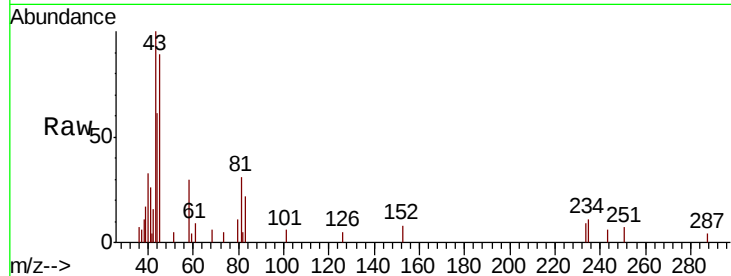
IA-3-4DL

Tot Ion: 45 Resp: 4274

Ion Ratio Lower Upper

45 100

58 0.0 1.8 2.6#



#20

Methylene Chloride

Concen: 0.497 ppbv

RT: 4.34 min Scan# 484

Delta R.T. 0.02 min

Lab File: VL034765.D

Acq: 3 Mar 2020 15:48

Tgt Ion: 84 Resp: 22079

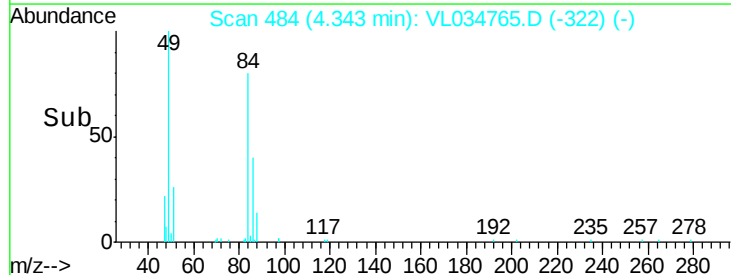
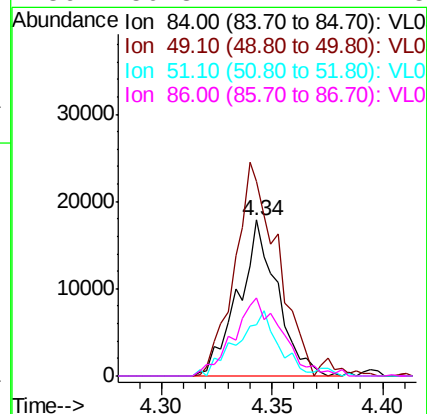
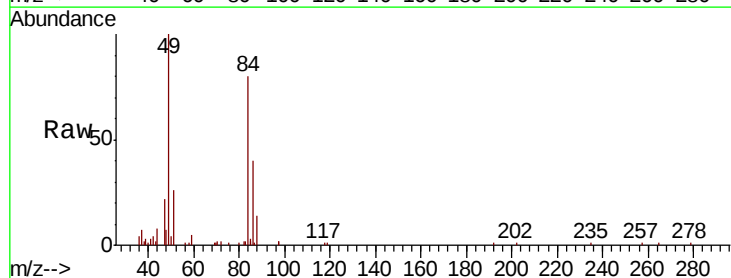
Ion Ratio Lower Upper

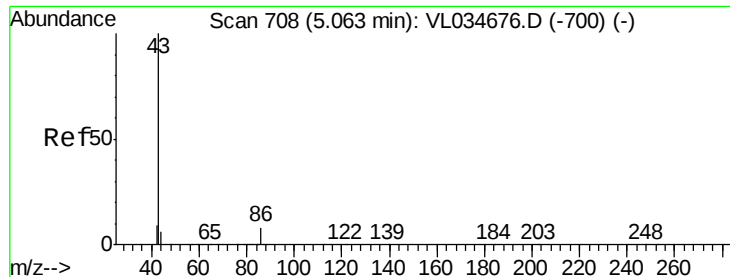
84 100

49 125.4 122.8 184.2

51 33.1 38.6 58.0#

86 50.3 47.7 71.5





#23

Vinyl Acetate

Concen: 0.063 ppbv

RT: 5.08 min Scan# 714

Delta R.T. 0.02 min

Lab File: VL034765.D

Acq: 3 Mar 2020 15:48

Instrument :

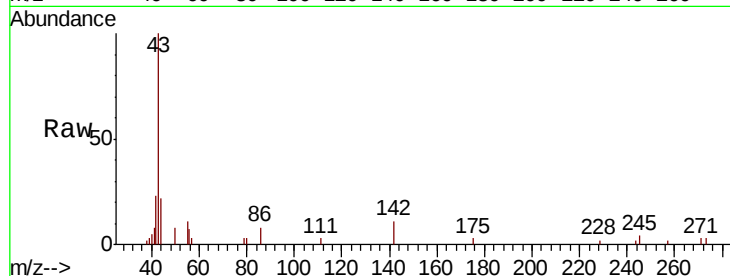
MSVOA_L

ClientSampled :

IA-3-4DL

Tot Ion: 43 Resp: 10212

Ion	Ratio	Lower	Upper
43	100		
86	8.9	6.0	9.0
42	25.2	8.0	12.0#
44	11.1	4.5	6.7#

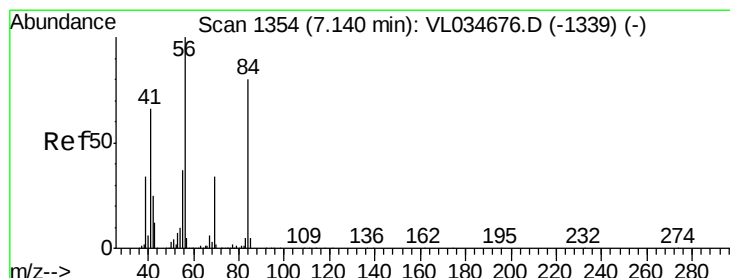
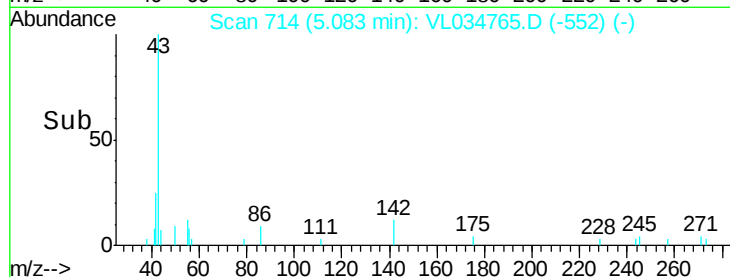
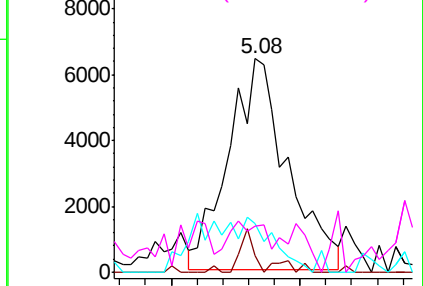


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#30

Cyclohexane

Concen: 0.073 ppbv

RT: 7.20 min Scan# 1371

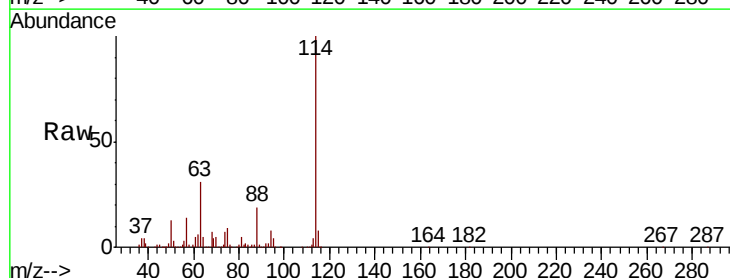
Delta R.T. 0.05 min

Lab File: VL034765.D

Acq: 3 Mar 2020 15:48

Tgt Ion: 84 Resp: 5516

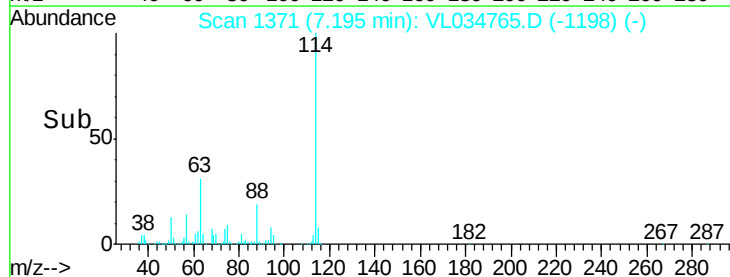
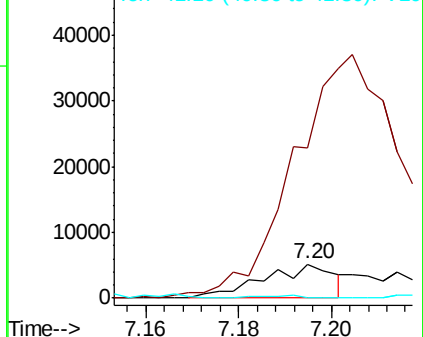
Ion	Ratio	Lower	Upper
84	100		
56	0.0	113.4	170.2#
41	15.4	68.2	102.4#

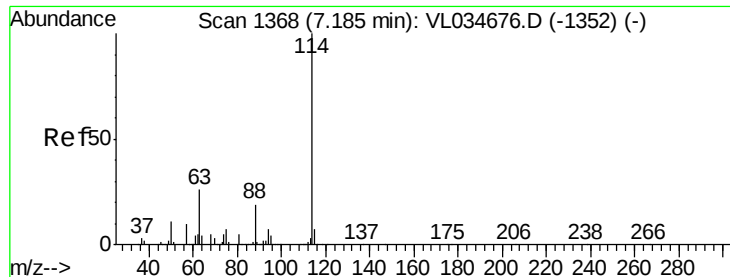


Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

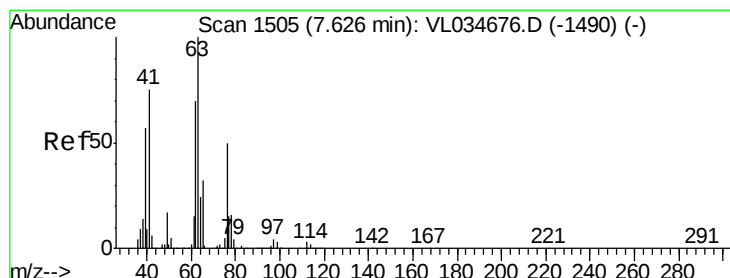
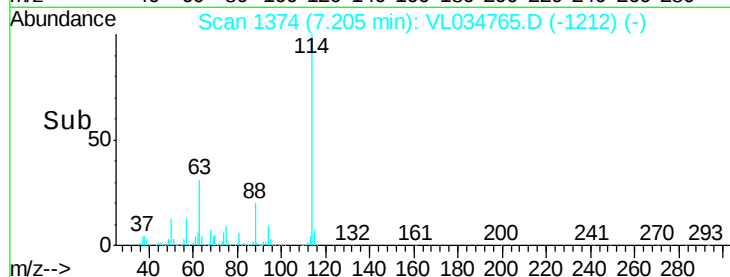
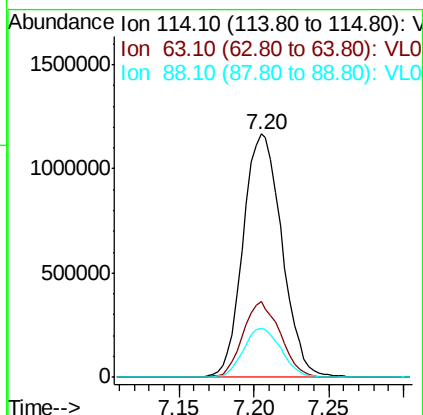
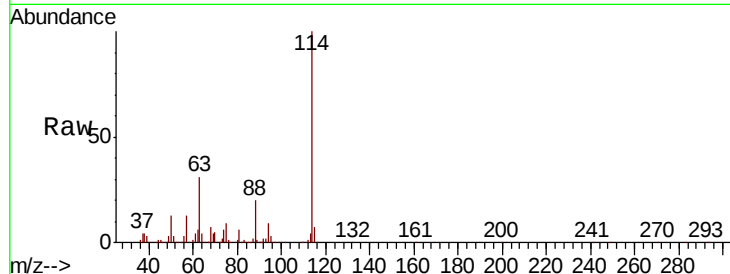




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.20 min Scan# 1374
 Delta R.T. 0.02 min
 Lab File: VL034765.D
 Acq: 3 Mar 2020 15:48

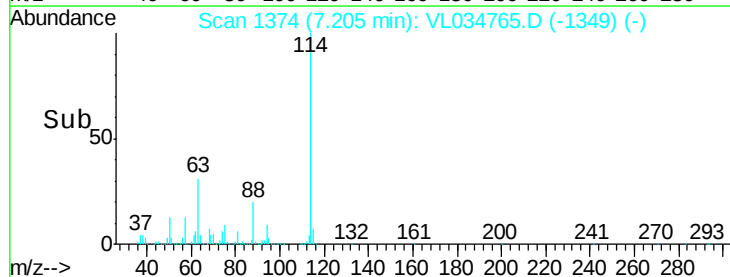
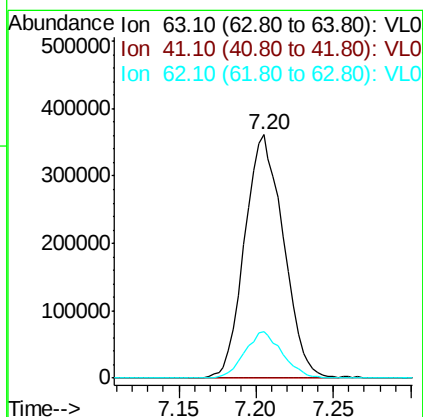
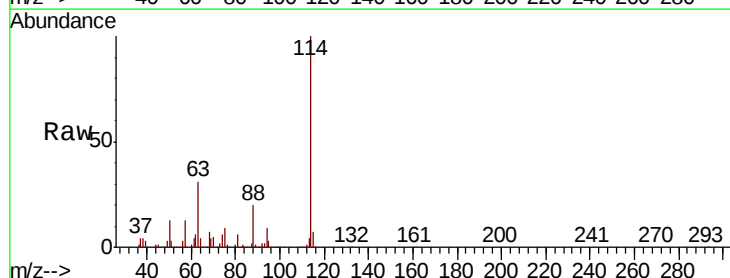
Instrument :
 MSVOA_L
 ClientSampled :
 IA-3-4DL

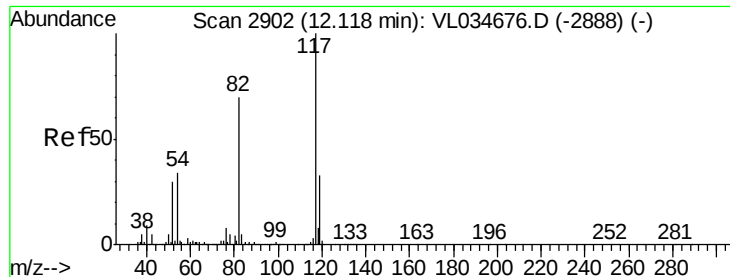
Tot Ion:114 Resp: 2106096
 Ion Ratio Lower Upper
 114 100
 63 30.2 22.9 34.3
 88 19.8 15.8 23.6



#39
 1,2-Dichloropropane
 Concen: 8.706 ppbv
 RT: 7.20 min Scan# 1374
 Delta R.T. -0.42 min
 Lab File: VL034765.D
 Acq: 3 Mar 2020 15:48

Tgt Ion: 63 Resp: 630047
 Ion Ratio Lower Upper
 63 100
 41 0.0 60.2 90.4#
 62 19.1 56.3 84.5#

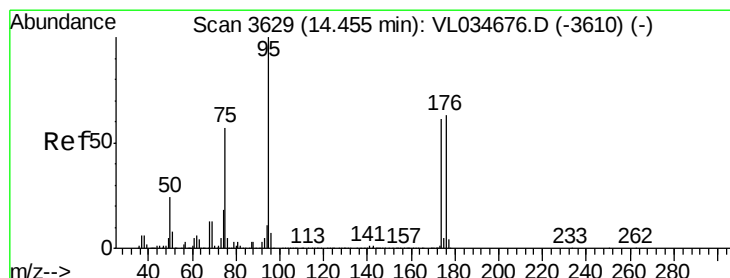
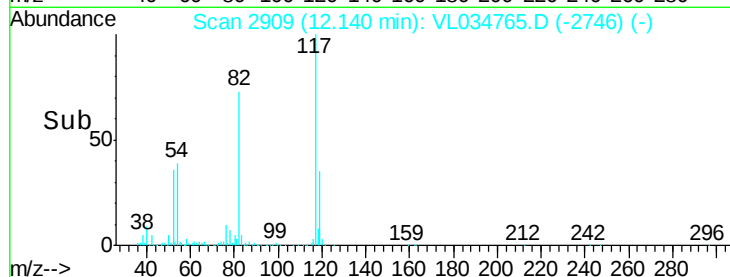
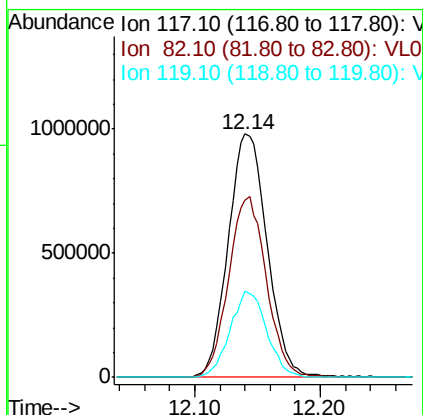
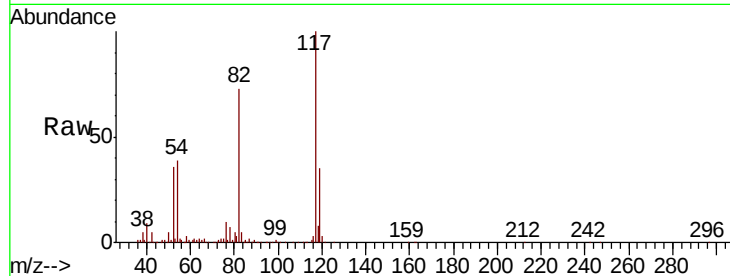




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.14 min Scan# 2909
Delta R.T. 0.02 min
Lab File: VL034765.D
Acq: 3 Mar 2020 15:48

Instrument :
MSVOA_L
ClientSampled :
IA-3-4DL

Tot Ion:117 Resp: 2091686
Ion Ratio Lower Upper
117 100
82 73.3 54.1 81.1
119 33.9 27.6 41.4



#68
1-Bromo-4-Fluorobenzene
Concen: 10.403 ppbv
RT: 14.48 min Scan# 3637
Delta R.T. 0.03 min
Lab File: VL034765.D
Acq: 3 Mar 2020 15:48

Tgt Ion: 95 Resp: 1784290
Ion Ratio Lower Upper
95 100
174 63.5 50.7 76.1
175 4.7 3.9 5.9

