

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030320\
 Data File : VL034761.D
 Acq On : 3 Mar 2020 13:08
 Operator : SY/AP
 Sample : L1704-02DL2 40X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-4-4DL2

Quant Time: Mar 04 05:46:15 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	1092473	10.00	ppbv	0.01
33) 1,4-Difluorobenzene	7.19	114	2233244	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.14	117	2251185	10.00	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.47	95	1872140	10.14	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.40%

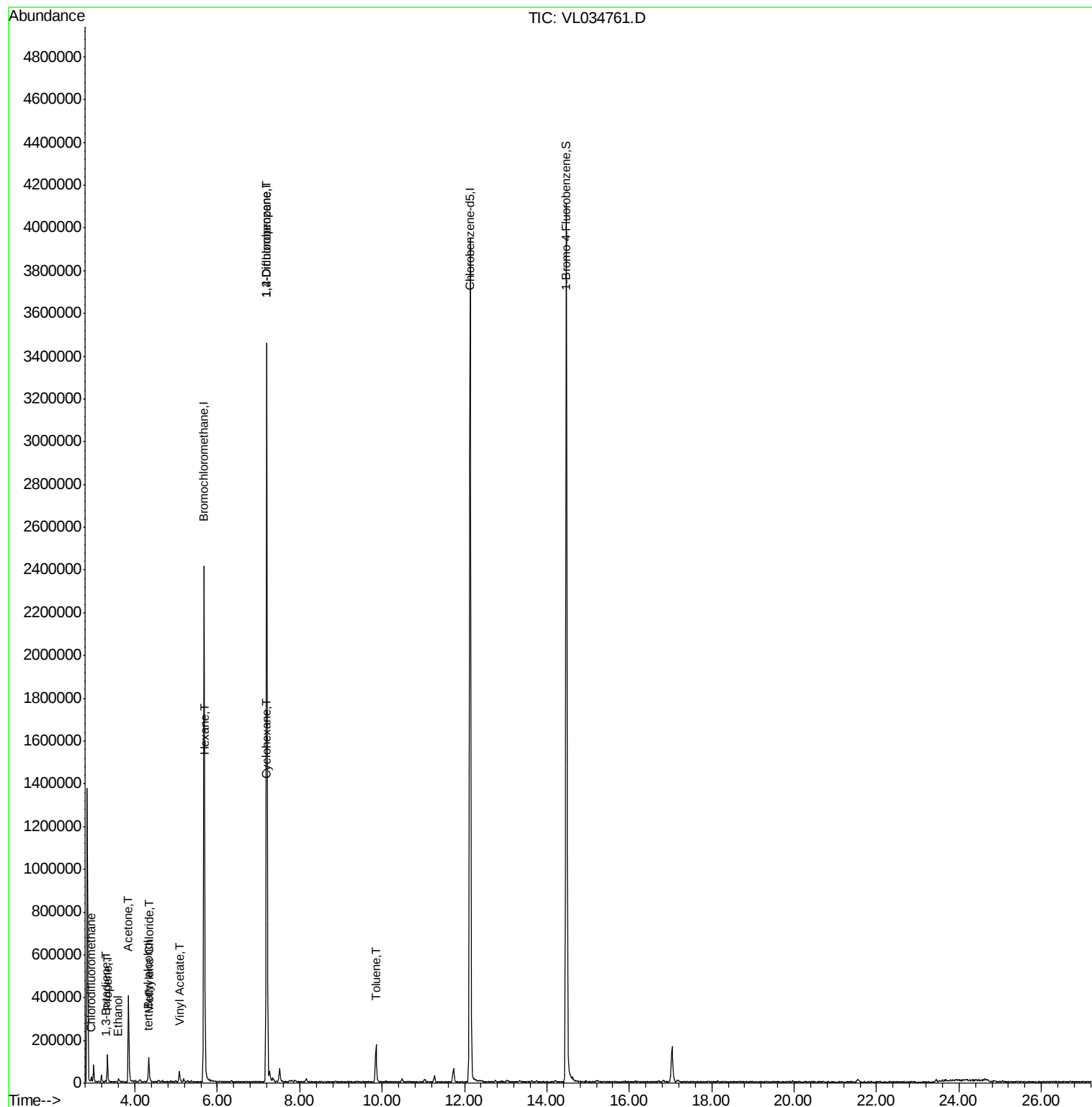
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.93	51	11908	0.101	ppbv #	64
9) Propene	3.34	41	16377	0.332	ppbv	97
13) Ethanol	3.58	45	385	0.025	ppbv #	37
15) Acetone	3.84	43	408039	3.278	ppbv	98
16) 1,3-Butadiene	3.29	39	1855	0.032	ppbv #	7
17) tert-Butyl alcohol	4.31	59	2870	0.030	ppbv #	71
20) Methylene Chloride	4.34	84	32065	0.693	ppbv	94
23) Vinyl Acetate	5.08	43	60810	0.359	ppbv	98
26) Hexane	5.70	57	2054	0.020	ppbv #	1
30) Cyclohexane	7.17	84	1614	0.021	ppbv #	1
39) 1,2-Dichloropropane	7.20	63	655285	8.539	ppbv #	23
53) Toluene	9.85	91	119752	0.584	ppbv	98

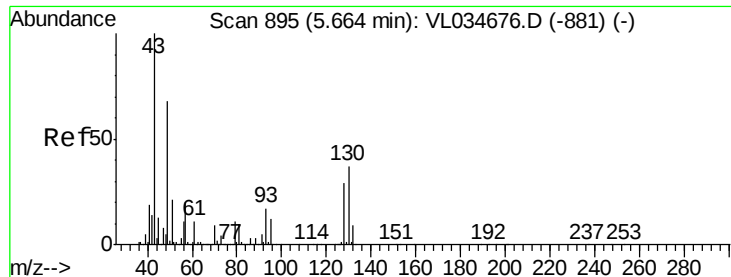
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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IA-4-4DL2

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL022620AIR.M
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QLast Update : Fri Feb 28 01:15:02 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 899

Delta R.T. 0.01 min

Lab File: VL034761.D

Acq: 3 Mar 2020 13:08

Instrument :

MSVOA_L

ClientSampleId :

IA-4-4DL2

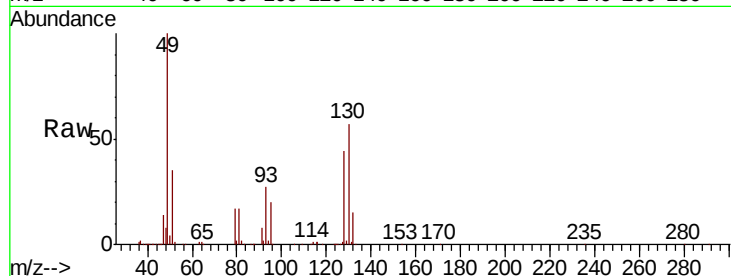
Tot Ion: 49 Resp: 1092473

Ion Ratio Lower Upper

49 100

128 44.4 21.6 65.0

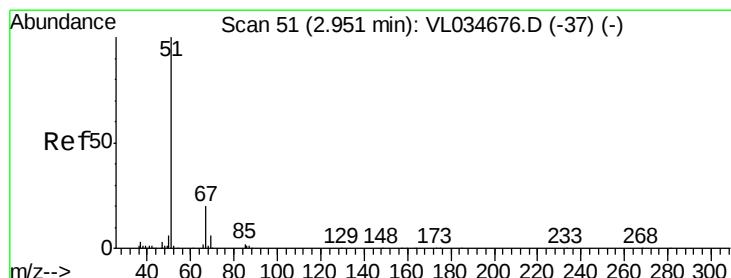
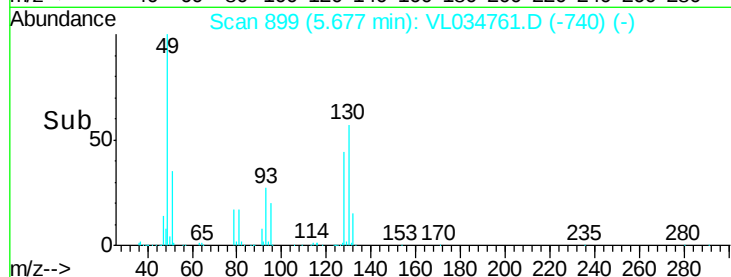
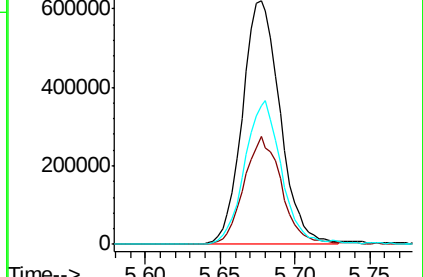
130 57.9 27.7 83.1



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#3

Chlorodifluoromethane

Concen: 0.101 ppbv

RT: 2.93 min Scan# 46

Delta R.T. -0.02 min

Lab File: VL034761.D

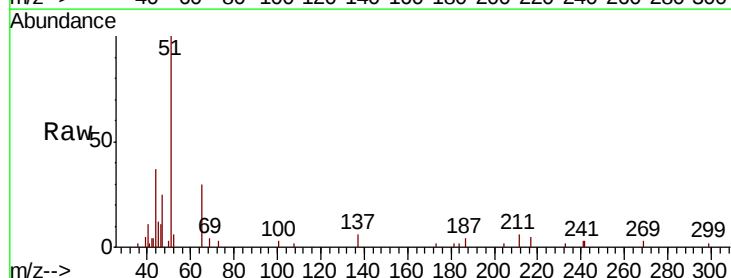
Acq: 3 Mar 2020 13:08

Tgt Ion: 51 Resp: 11908

Ion Ratio Lower Upper

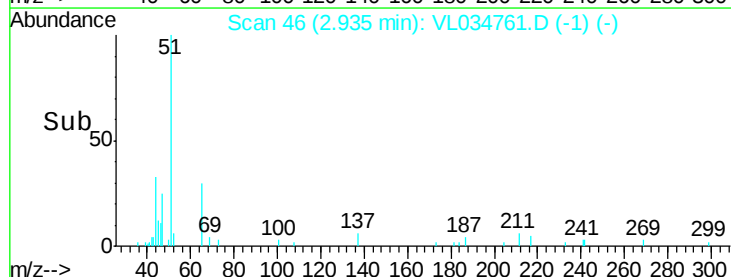
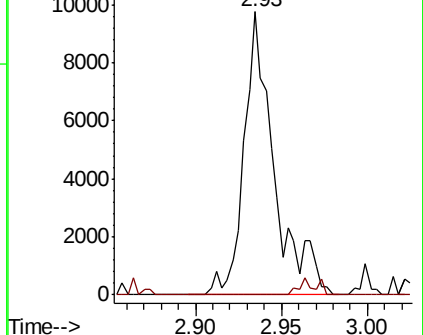
51 100

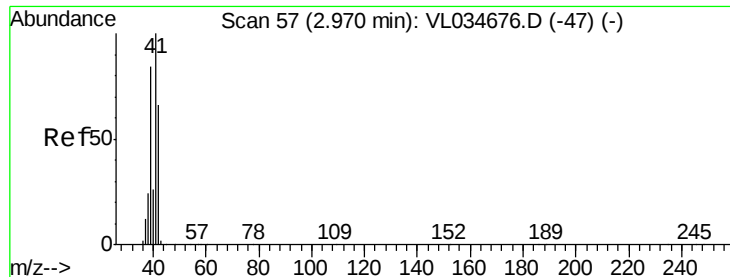
67 3.2 15.5 23.3#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 0.332 ppbv

RT: 3.34 min Scan# 171

Delta R.T. 0.37 min

Lab File: VL034761.D

Acq: 3 Mar 2020 13:08

Instrument :

MSVOA_L

ClientSampleId :

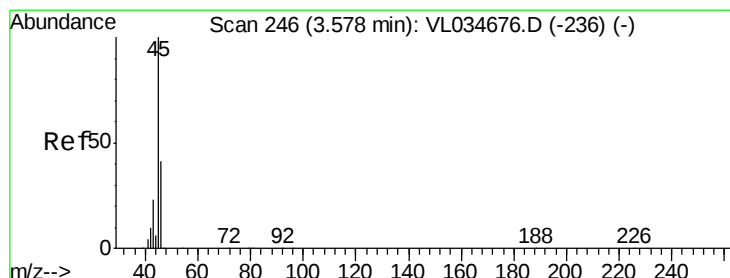
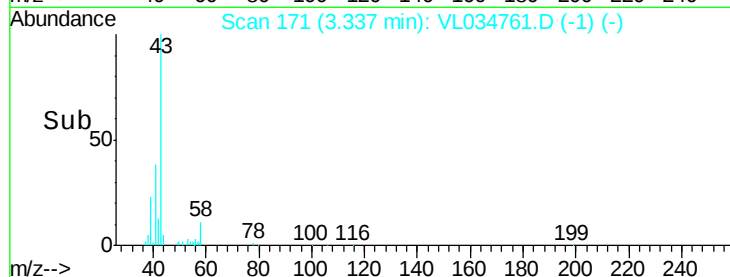
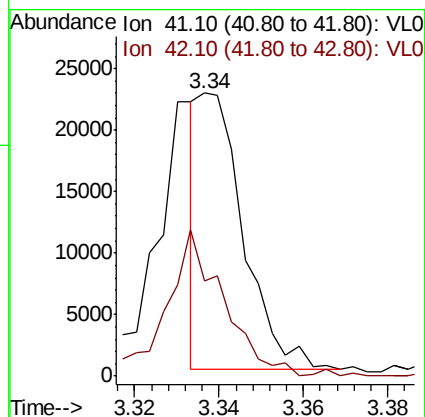
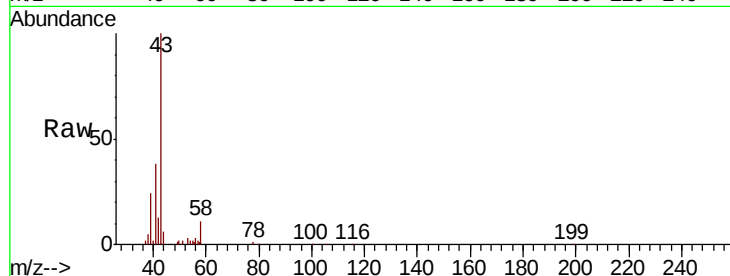
IA-4-4DL2

Tot Ion: 41 Resp: 16377

Ion Ratio Lower Upper

41 100

42 71.3 54.9 82.3



#13

Ethanol

Concen: 0.025 ppbv

RT: 3.58 min Scan# 247

Delta R.T. 0.00 min

Lab File: VL034761.D

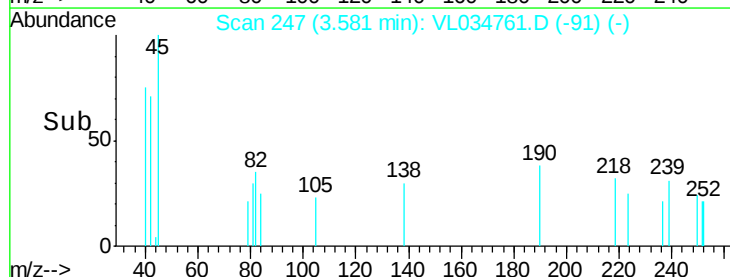
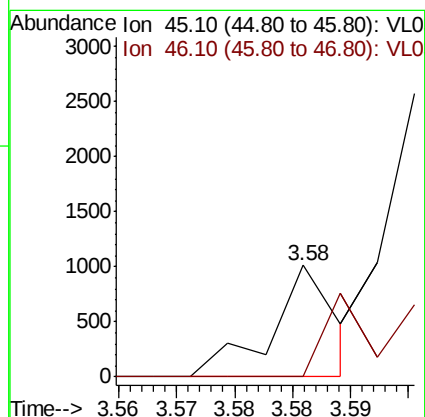
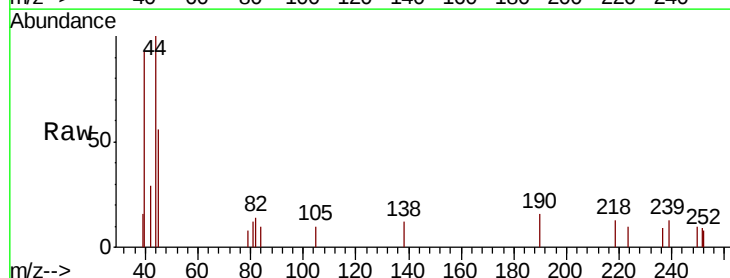
Acq: 3 Mar 2020 13:08

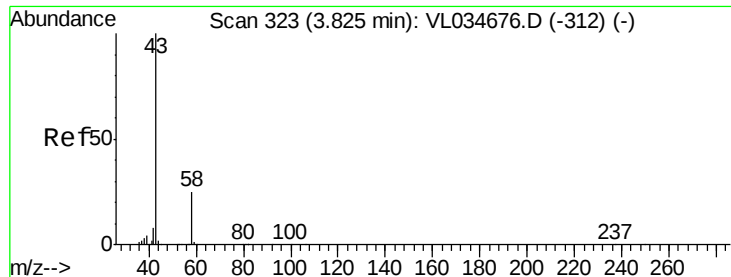
Tgt Ion: 45 Resp: 385

Ion Ratio Lower Upper

45 100

46 0.0 15.4 61.4#





#15

Acetone

Concen: 3.278 ppbv

RT: 3.84 min Scan# 328

Delta R.T. 0.02 min

Lab File: VL034761.D

Acq: 3 Mar 2020 13:08

Instrument :

MSVOA_L

ClientSampleId :

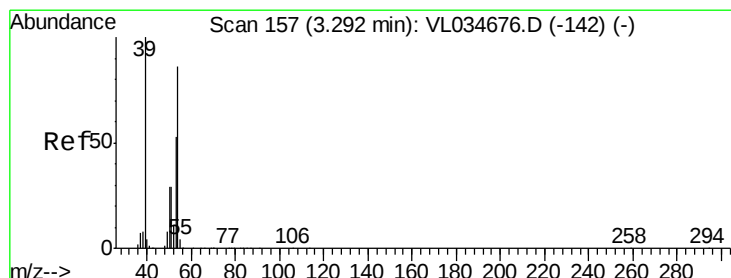
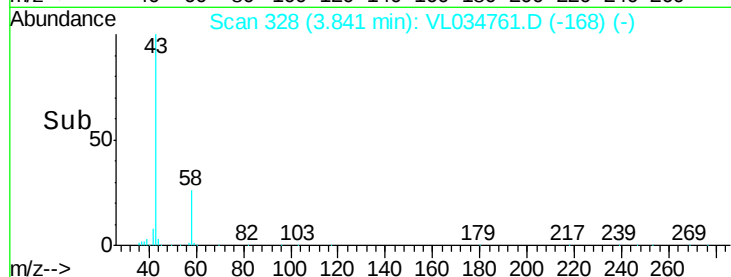
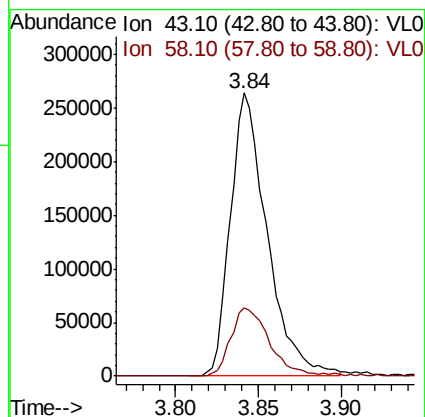
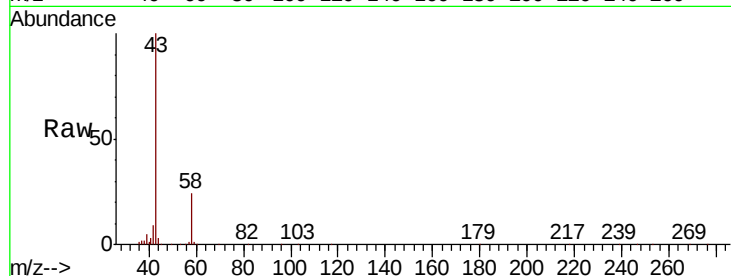
IA-4-4DL2

Tot Ion: 43 Resp: 408039

Ion Ratio Lower Upper

43 100

58 25.4 21.4 32.0



#16

1,3-Butadiene

Concen: 0.032 ppbv

RT: 3.29 min Scan# 155

Delta R.T. -0.01 min

Lab File: VL034761.D

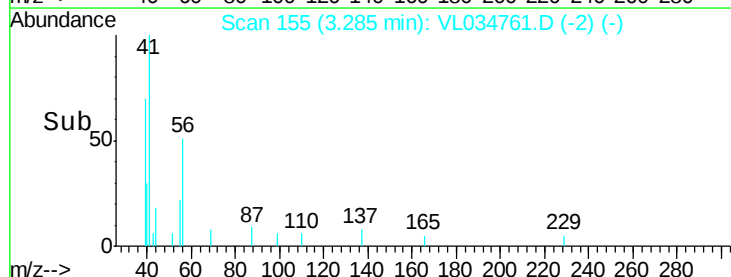
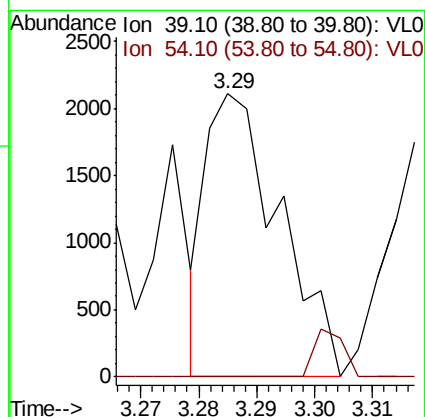
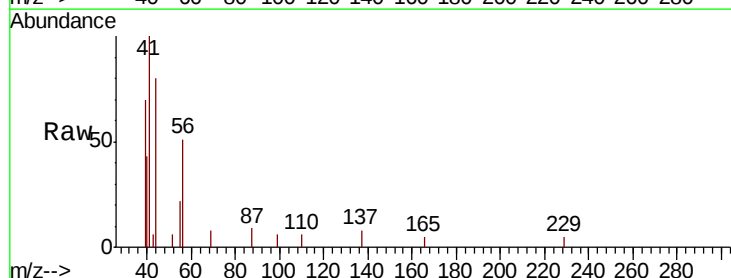
Acq: 3 Mar 2020 13:08

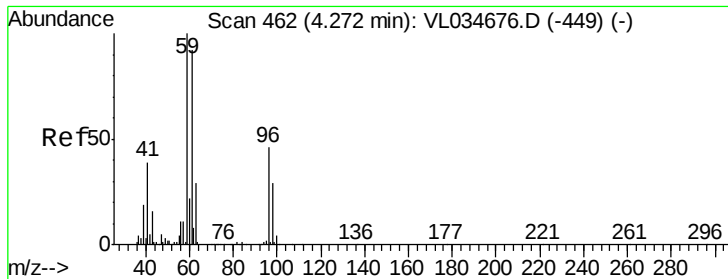
Tgt Ion: 39 Resp: 1855

Ion Ratio Lower Upper

39 100

54 0.0 67.0 100.6#



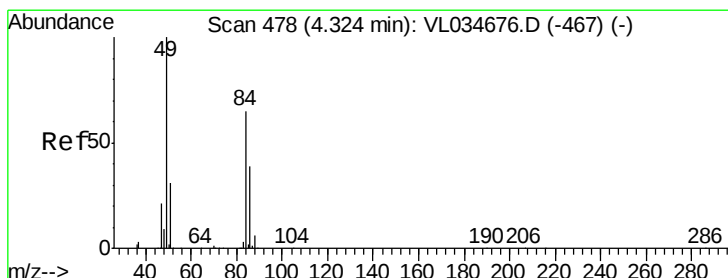
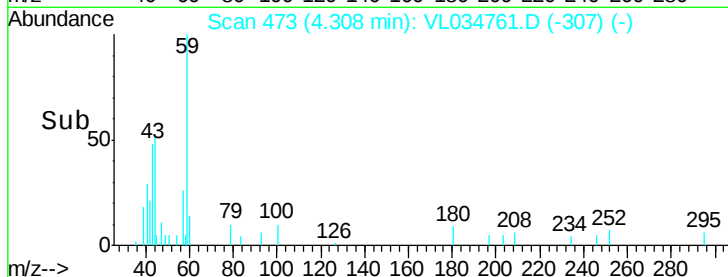
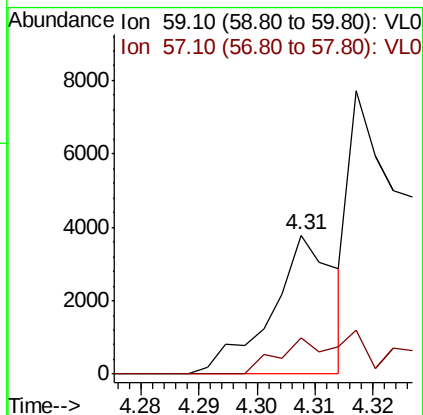
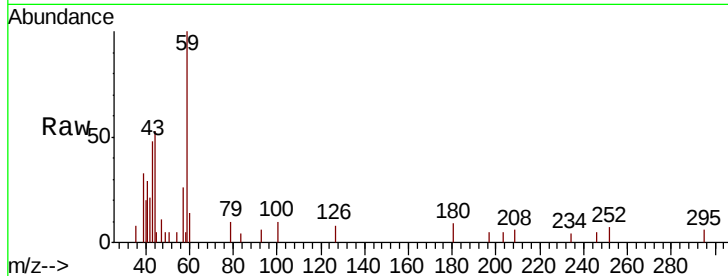


#17

tert-Butyl alcohol
Concen: 0.030 ppbv
RT: 4.31 min Scan# 473
Delta R.T. 0.04 min
Lab File: VL034761.D
Acq: 3 Mar 2020 13:08

Instrument :
MSVOA_L
ClientSampleId :
IA-4-4DL2

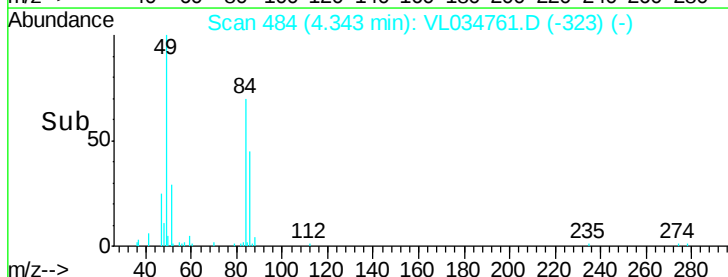
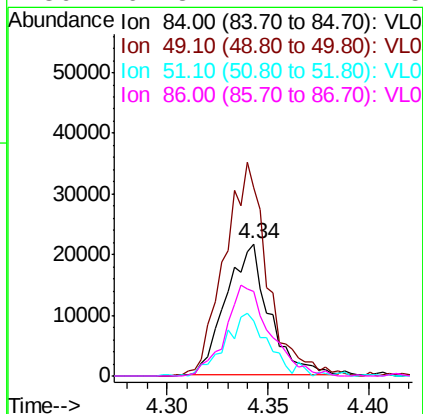
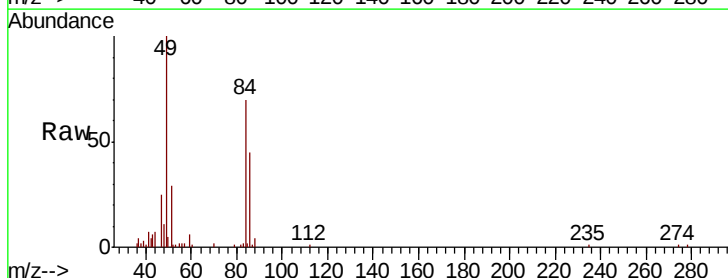
Tot Ion: 59 Resp: 2870
Ion Ratio Lower Upper
59 100
57 0.0 8.8 13.2#

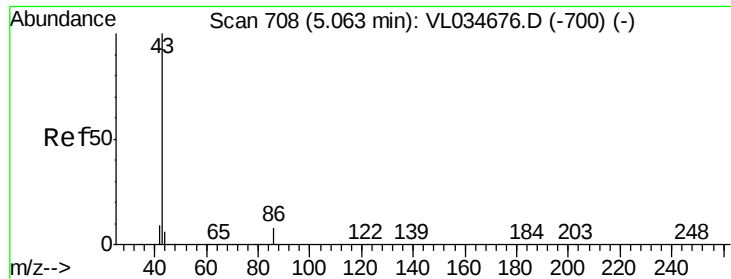


#20

Methylene Chloride
Concen: 0.693 ppbv
RT: 4.34 min Scan# 484
Delta R.T. 0.02 min
Lab File: VL034761.D
Acq: 3 Mar 2020 13:08

Tgt Ion: 84 Resp: 32065
Ion Ratio Lower Upper
84 100
49 146.5 122.8 184.2
51 42.1 38.6 58.0
86 64.3 47.7 71.5

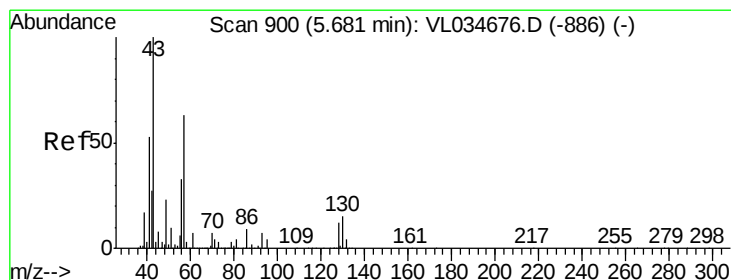
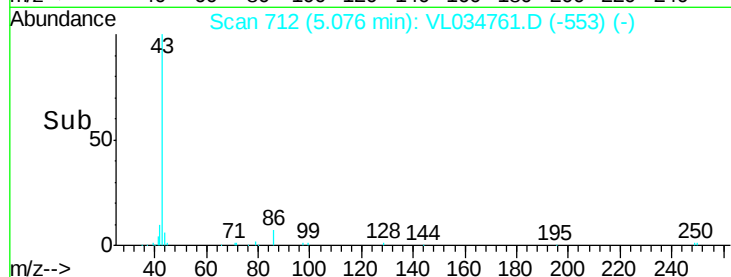
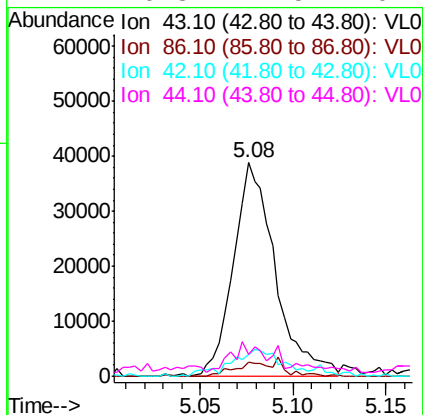
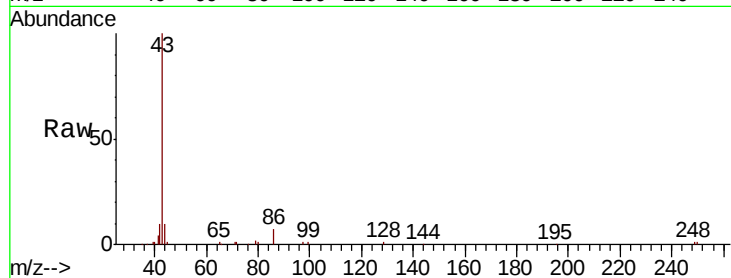




#23
 Vinyl Acetate
 Concen: 0.359 ppbv
 RT: 5.08 min Scan# 712
 Delta R.T. 0.01 min
 Lab File: VL034761.D
 Acq: 3 Mar 2020 13:08

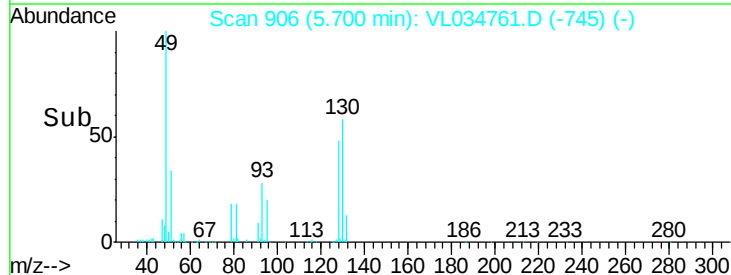
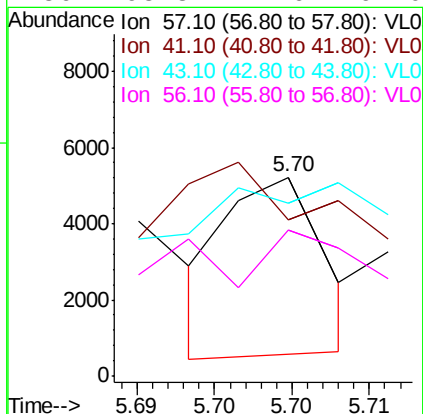
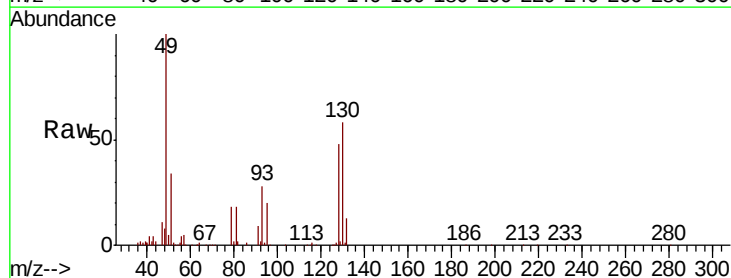
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-4-4DL2

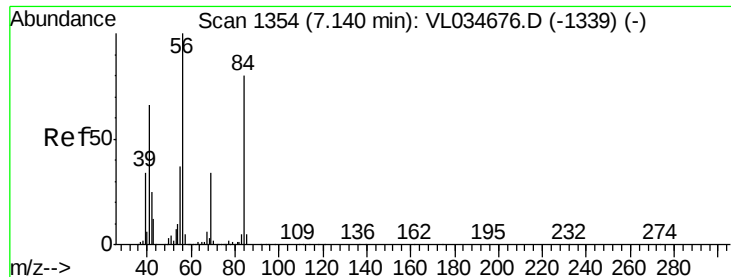
Tot Ion:	43	Resp:	60810
Ion	Ratio	Lower	Upper
43	100		
86	6.5	6.0	9.0
42	10.5	8.0	12.0
44	6.3	4.5	6.7



#26
 Hexane
 Concen: 0.020 ppbv
 RT: 5.70 min Scan# 906
 Delta R.T. 0.02 min
 Lab File: VL034761.D
 Acq: 3 Mar 2020 13:08

Tgt Ion:	57	Resp:	2054
Ion	Ratio	Lower	Upper
57	100		
41	443.1	70.3	105.5#
43	460.3	177.0	265.4#
56	295.8	42.6	64.0#

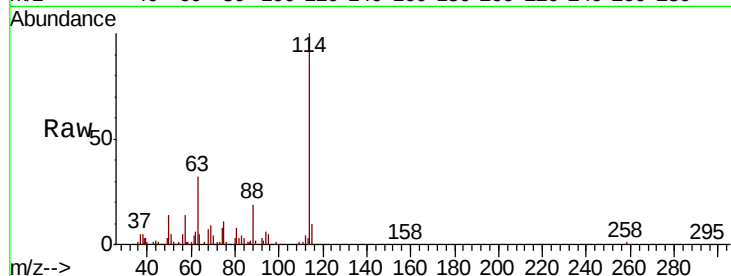




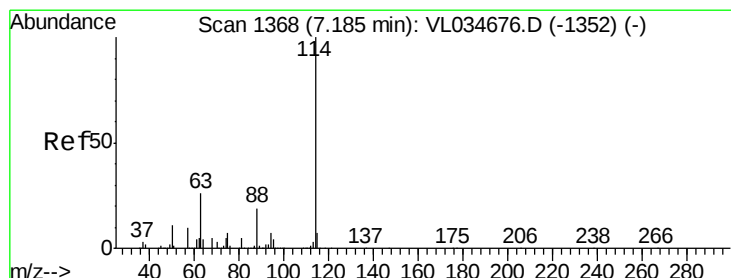
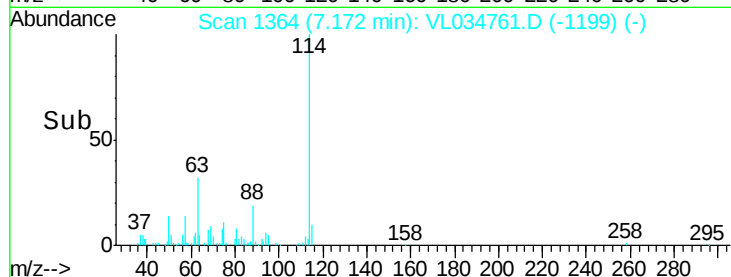
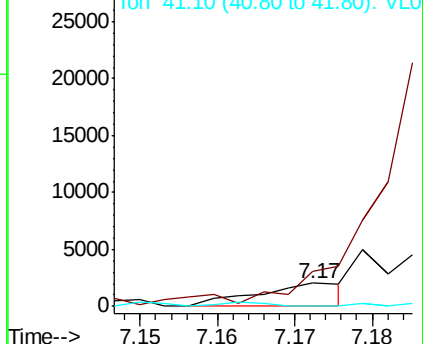
#30
Cyclohexane
Concen: 0.021 ppbv
RT: 7.17 min Scan# 1364
Delta R.T. 0.03 min
Lab File: VL034761.D
Acq: 3 Mar 2020 13:08

Instrument :
MSVOA_L
ClientSampleId :
IA-4-DL2

Tot Ion: 84 Resp: 1614
Ion Ratio Lower Upper
84 100
56 0.0 113.4 170.2#
41 0.0 68.2 102.4#

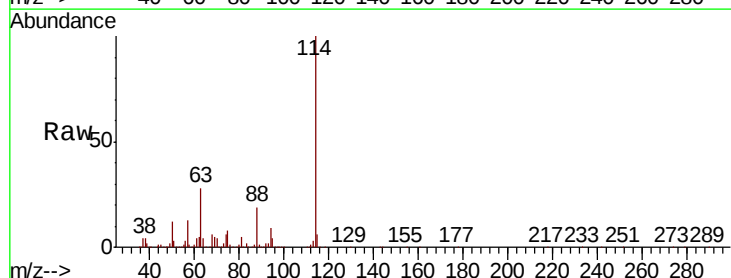


Abundance Ion 84.20 (83.90 to 84.90): VL0
Ion 56.10 (55.80 to 56.80): VL0
Ion 41.10 (40.80 to 41.80): VL0

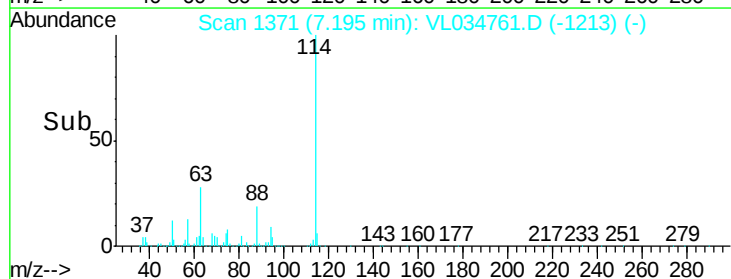
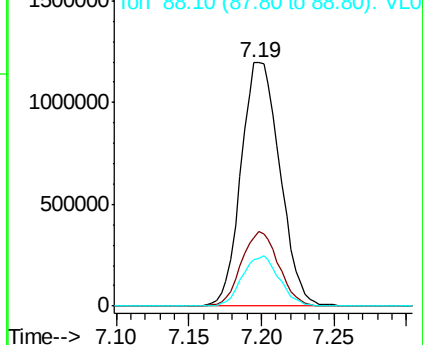


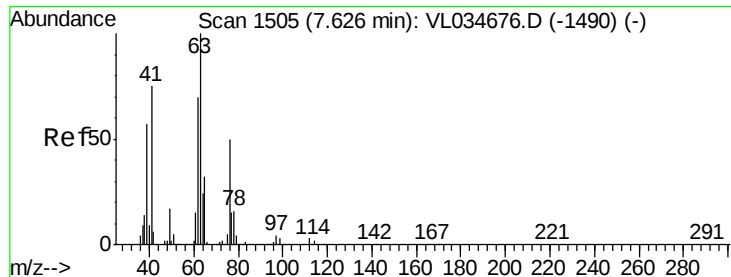
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1371
Delta R.T. 0.01 min
Lab File: VL034761.D
Acq: 3 Mar 2020 13:08

Tgt Ion: 114 Resp: 2233244
Ion Ratio Lower Upper
114 100
63 29.4 22.9 34.3
88 19.7 15.8 23.6



Abundance Ion 114.10 (113.80 to 114.80): V
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0





#39

1,2-Dichloropropane

Concen: 8.539 ppbv

RT: 7.20 min Scan# 1372

Delta R.T. -0.43 min

Lab File: VL034761.D

Acq: 3 Mar 2020 13:08

Instrument :

MSVOA_L

ClientSampleId :

IA-4-4DL2

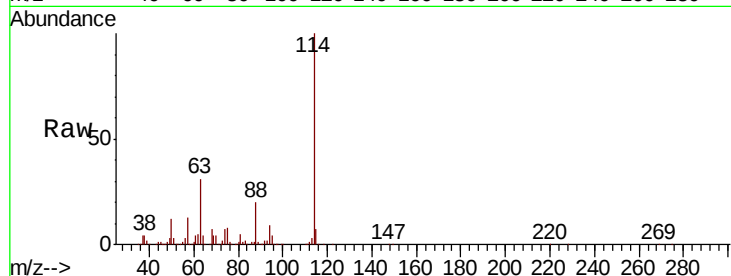
Tot Ion: 63 Resp: 655285

Ion Ratio Lower Upper

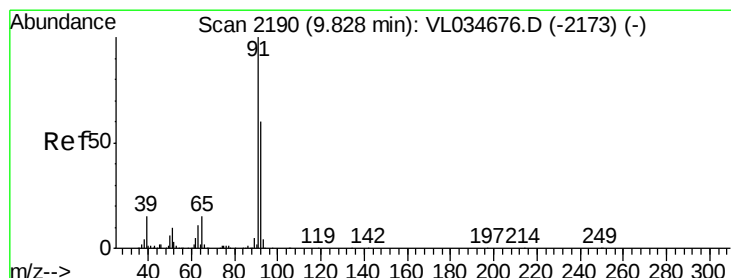
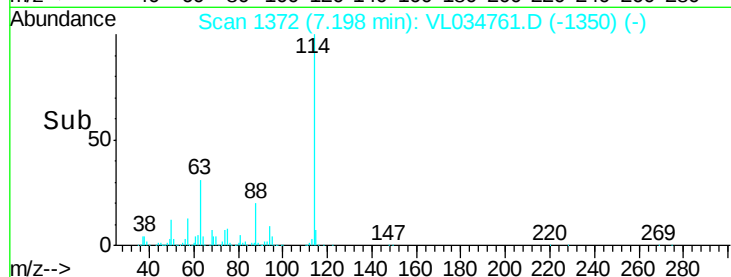
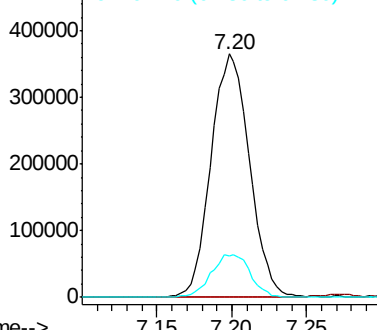
63 100

41 0.0 60.2 90.4#

62 17.2 56.3 84.5#



Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 62.10 (61.80 to 62.80): VL0



#53

Toluene

Concen: 0.584 ppbv

RT: 9.85 min Scan# 2197

Delta R.T. 0.02 min

Lab File: VL034761.D

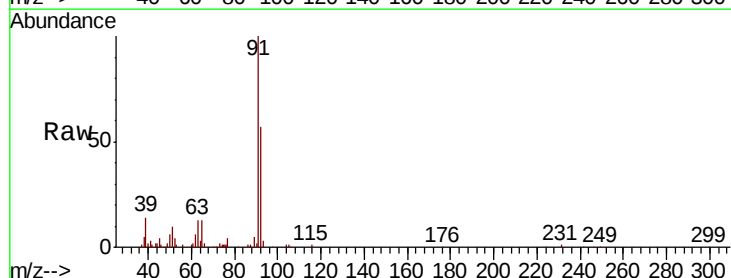
Acq: 3 Mar 2020 13:08

Tgt Ion: 91 Resp: 119752

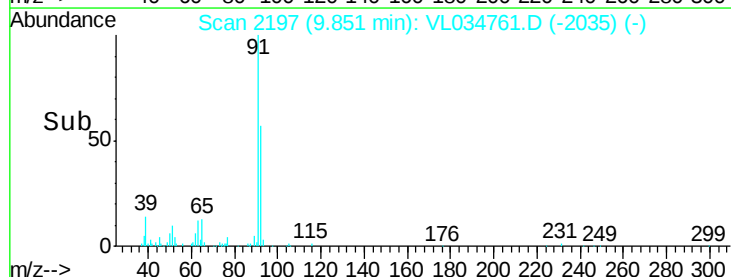
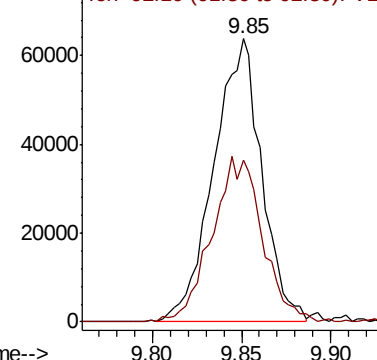
Ion Ratio Lower Upper

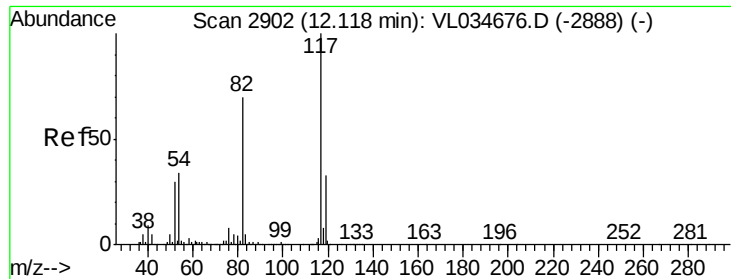
91 100

92 61.9 48.5 72.7



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 92.10 (91.80 to 92.80): VL0

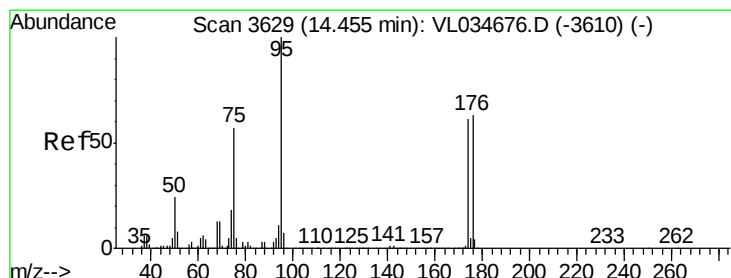
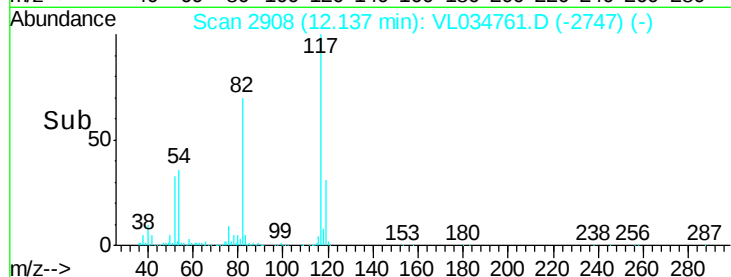
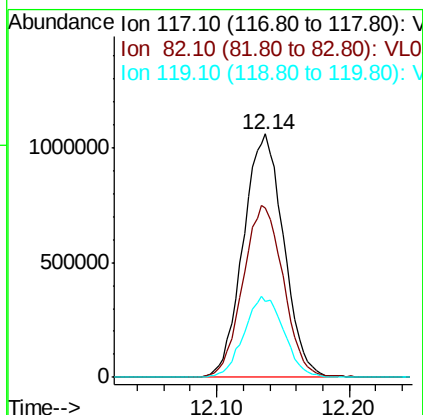
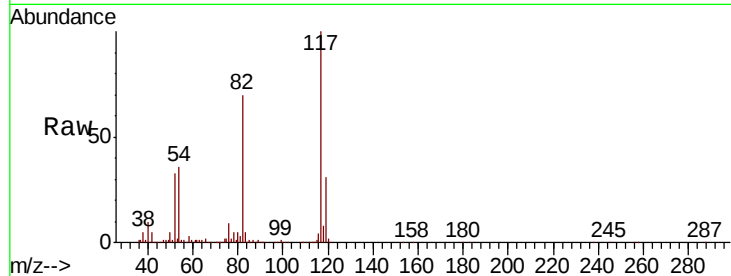




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.14 min Scan# 2908
Delta R.T. 0.02 min
Lab File: VL034761.D
Acq: 3 Mar 2020 13:08

Instrument :
MSVOA_L
ClientSampleId :
IA-4-4DL2

Tot Ion:117 Resp: 2251185
Ion Ratio Lower Upper
117 100
82 71.0 54.1 81.1
119 33.0 27.6 41.4



#68
1-Bromo-4-Fluorobenzene
Concen: 10.142 ppbv
RT: 14.47 min Scan# 3634
Delta R.T. 0.02 min
Lab File: VL034761.D
Acq: 3 Mar 2020 13:08

Tgt Ion: 95 Resp: 1872140
Ion Ratio Lower Upper
95 100
174 63.7 50.7 76.1
175 4.7 3.9 5.9

