

Data File : VL034606.D
Acq On : 6 Feb 2020 19:33
Operator : SY/AP
Sample : L1435-02
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-2

Quant Time: Feb 07 07:38:17 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL013020AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Jan 30 17:16:44 2020
QLast Update : Thu Jan 30 17:16:44 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	882579	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.21	114	1832342	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.15	117	1768902	10.00	ppbv	0.04

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.48 95 1568558 10.49 ppbv 0.03
Spiked Amount 10.000 Range 65 - 135 Recovery = 104.90%

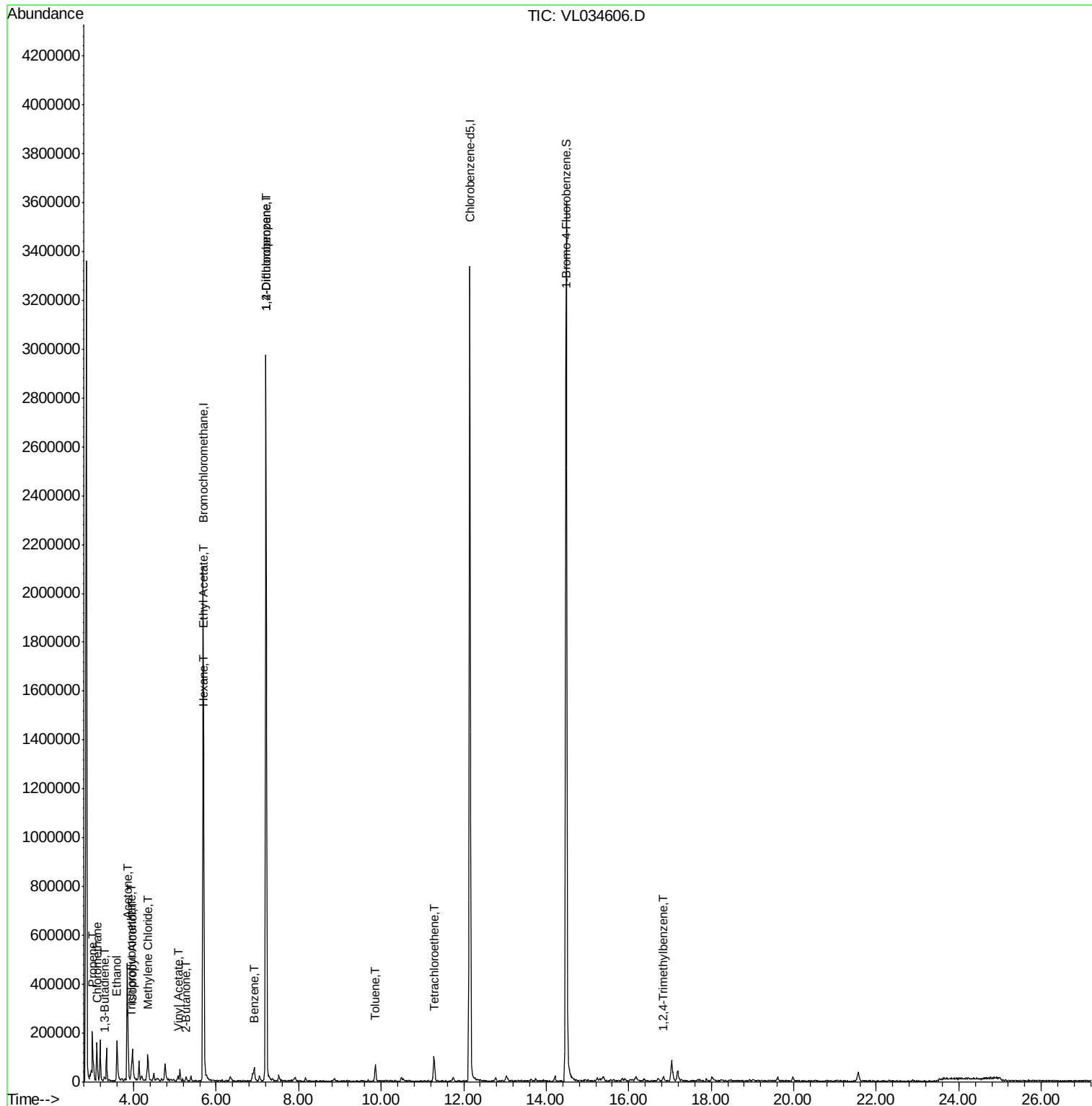
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Chloromethane	3.12	50	30187	0.463	ppbv	92
9) Propene	3.00	41	35997	0.867	ppbv #	70
11) Trichlorofluoromethane	3.94	101	42661	0.242	ppbv	94
13) Ethanol	3.59	45	166525	14.972	ppbv	99
15) Acetone	3.84	43	473735	3.652	ppbv	100
16) 1,3-Butadiene	3.29	39	5181	0.101	ppbv #	24
19) Isopropyl Alcohol	3.97	45	110219	1.456	ppbv #	93
20) Methylene Chloride	4.35	84	33825	0.685	ppbv	96
23) Vinyl Acetate	5.08	43	13085	0.088	ppbv #	92
25) Ethyl Acetate	5.70	43	22974	0.109	ppbv #	88
26) Hexane	5.71	57	15147	0.172	ppbv #	48
34) 2-Butanone	5.27	43	16048	0.121	ppbv	95
36) Benzene	6.92	78	23453	0.144	ppbv #	90
39) 1,2-Dichloropropane	7.21	63	544287	8.057	ppbv #	20
52) Tetrachloroethene	11.28	164	5047	0.077	ppbv #	38
53) Toluene	9.86	91	19947	0.111	ppbv #	11
74) 1,2,4-Trimethylbenzene	16.84	105	7873	0.032	ppbv #	63

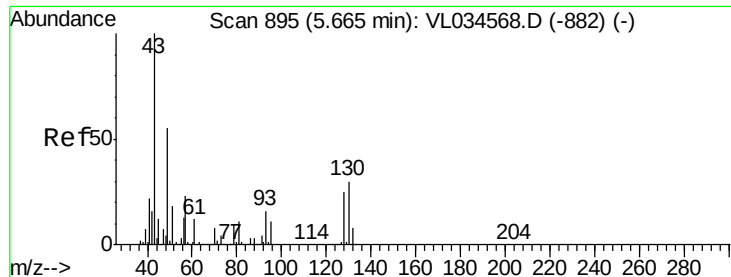
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 902

Delta R.T. 0.02 min

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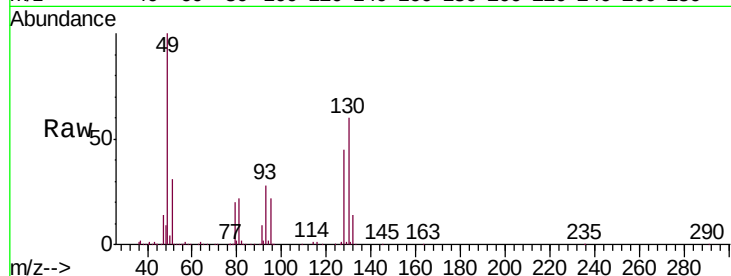
Tgt Ion: 49 Resp: 882579

Ion Ratio Lower Upper

49 100

128 46.8 22.7 68.1

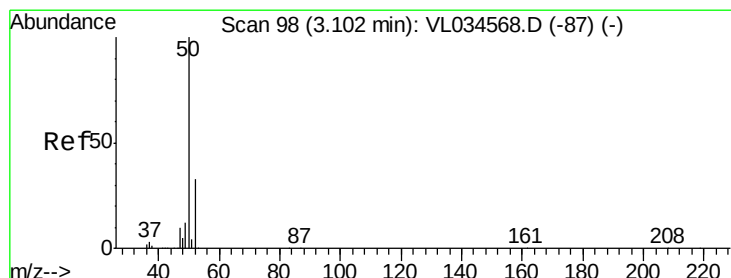
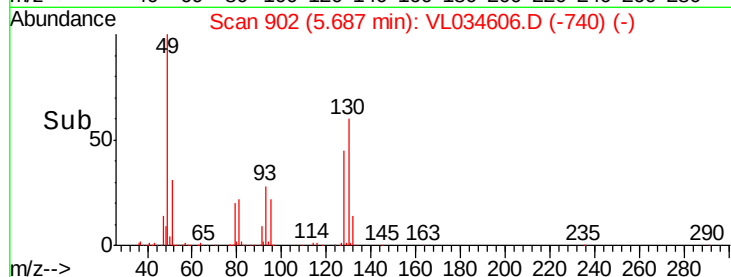
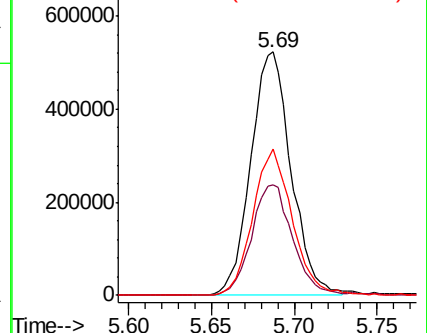
130 59.7 28.6 85.8



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



#4

Chloromethane

Concen: 0.463 ppbv

RT: 3.12 min Scan# 104

Delta R.T. 0.02 min

Lab File: VL034606.D

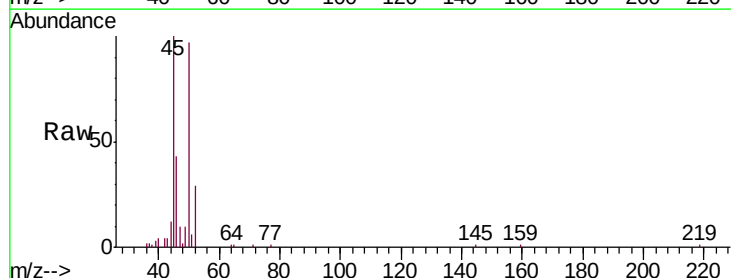
Acq: 6 Feb 2020 19:33

Tgt Ion: 50 Resp: 30187

Ion Ratio Lower Upper

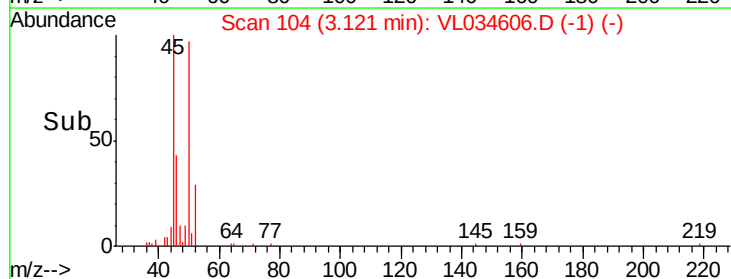
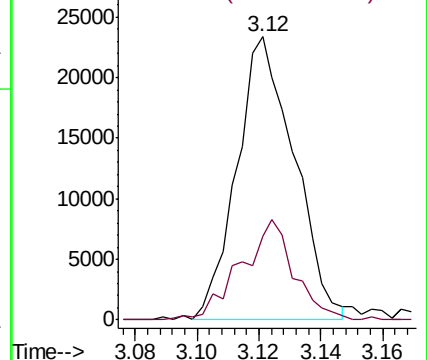
50 100

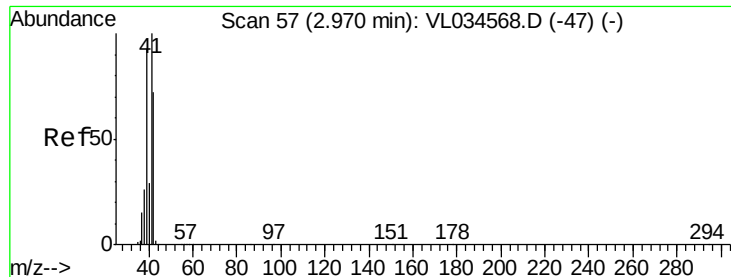
52 28.6 26.6 39.8



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.867 ppbv

RT: 3.00 min Scan# 66

Delta R.T. 0.03 min

Lab File: VL034606.D

Acq: 6 Feb 2020 19:33

Instrument :

MSVOA_L

ClientSampleId :

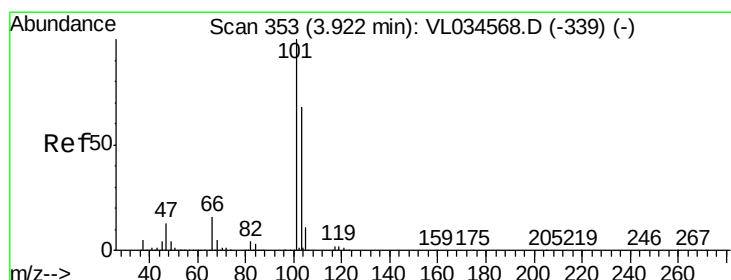
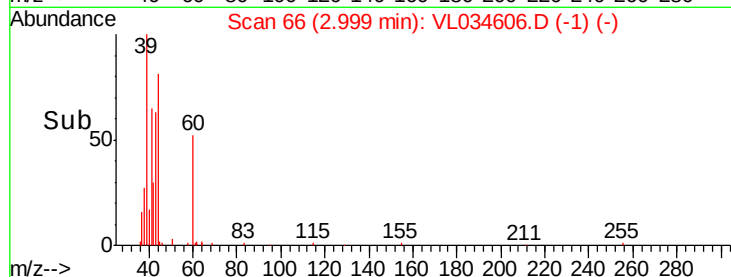
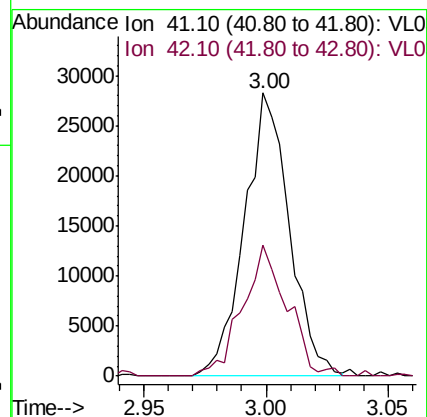
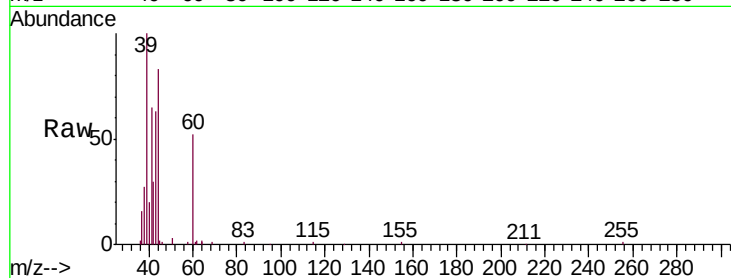
IA-2

Tgt Ion: 41 Resp: 35997

Ion Ratio Lower Upper

41 100

42 46.8 57.0 85.4#



#11

Trichlorofluoromethane

Concen: 0.242 ppbv

RT: 3.94 min Scan# 360

Delta R.T. 0.02 min

Lab File: VL034606.D

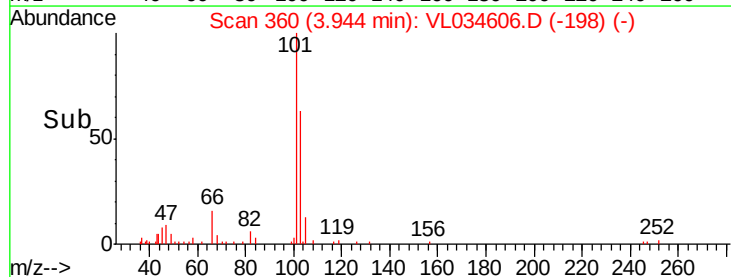
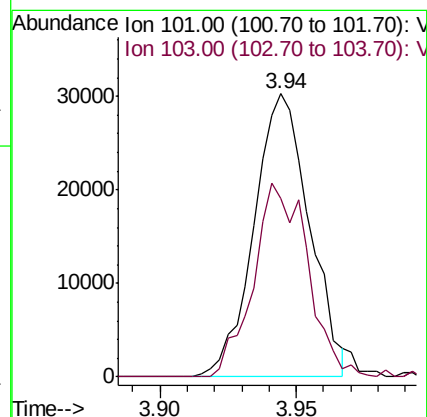
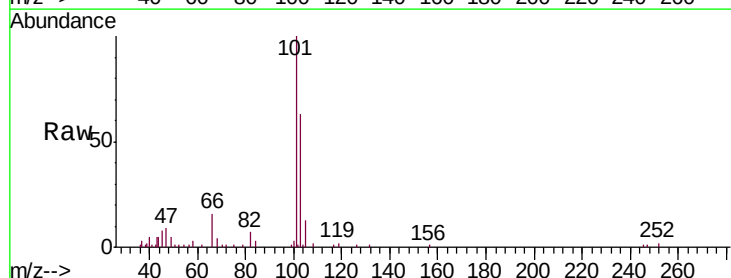
Acq: 6 Feb 2020 19:33

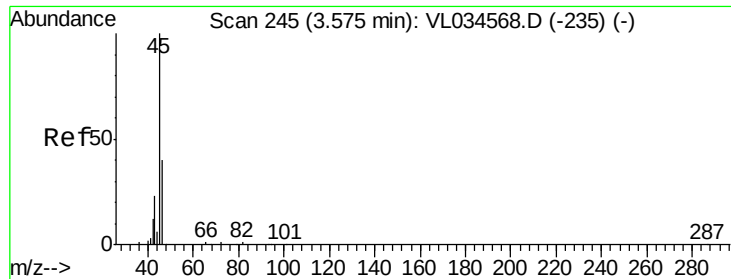
Tgt Ion: 101 Resp: 42661

Ion Ratio Lower Upper

101 100

103 63.2 54.4 81.6

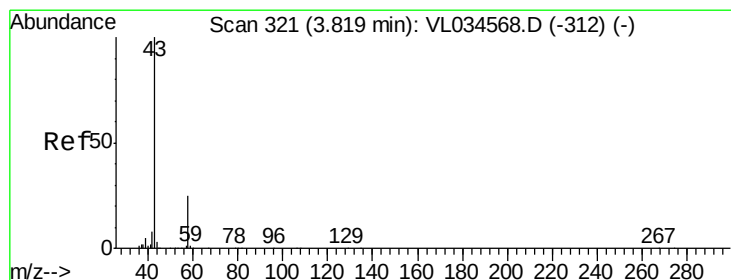
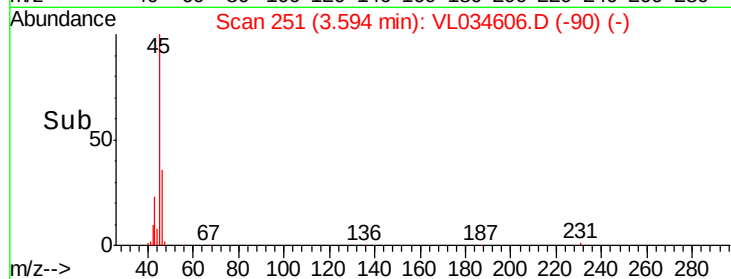
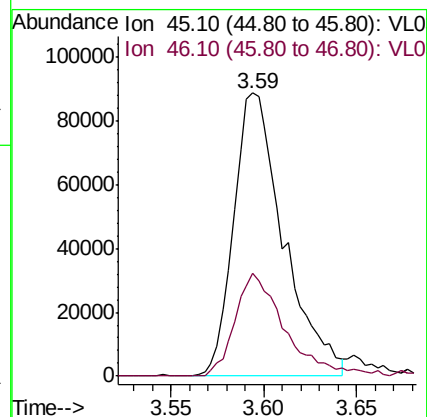
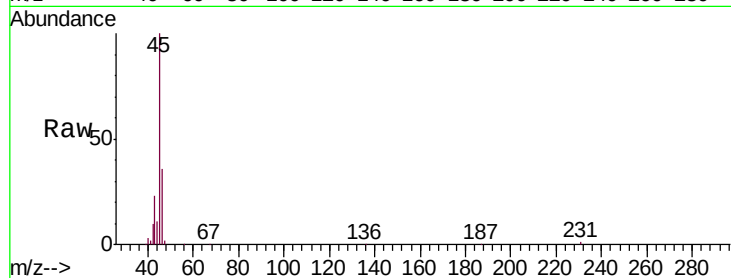




#13
Ethanol
Concen: 14.972 ppbv
RT: 3.59 min Scan# 251
Delta R.T. 0.02 min
Lab File: VL034606.D
Acq: 6 Feb 2020 19:33

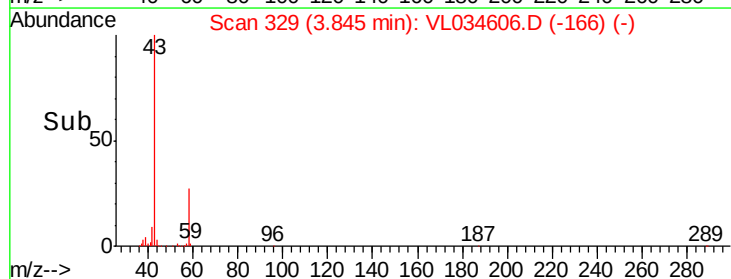
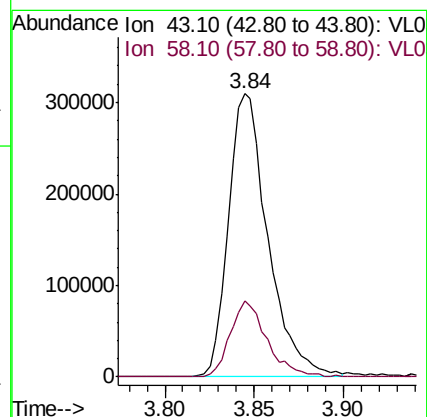
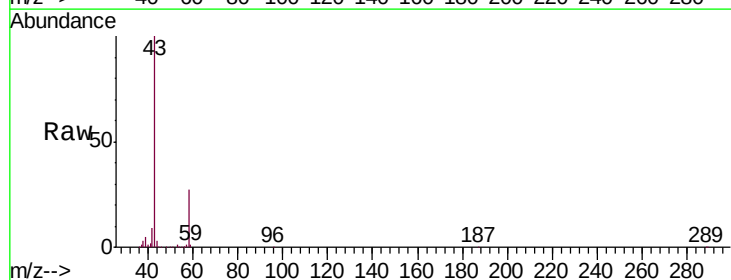
Instrument :
MSVOA_L
ClientSampleId :
IA-2

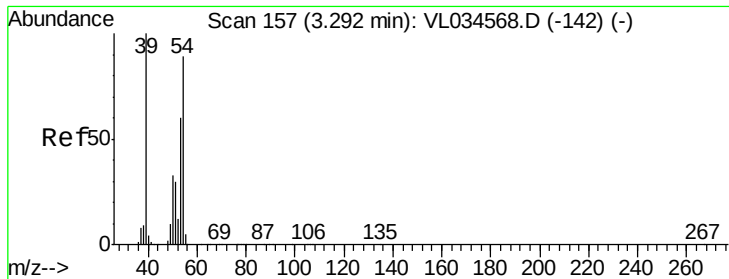
Tgt Ion: 45 Resp: 166525
Ion Ratio Lower Upper
45 100
46 36.2 14.8 59.2



#15
Acetone
Concen: 3.652 ppbv
RT: 3.84 min Scan# 329
Delta R.T. 0.03 min
Lab File: VL034606.D
Acq: 6 Feb 2020 19:33

Tgt Ion: 43 Resp: 473735
Ion Ratio Lower Upper
43 100
58 25.5 20.3 30.5

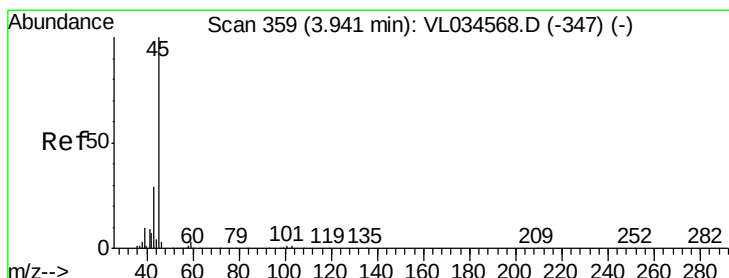
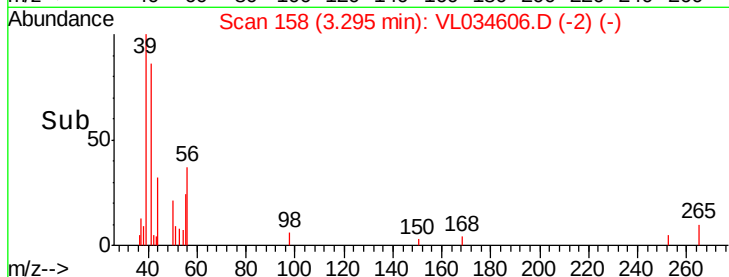
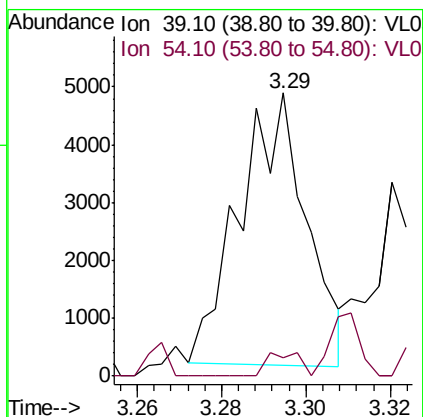
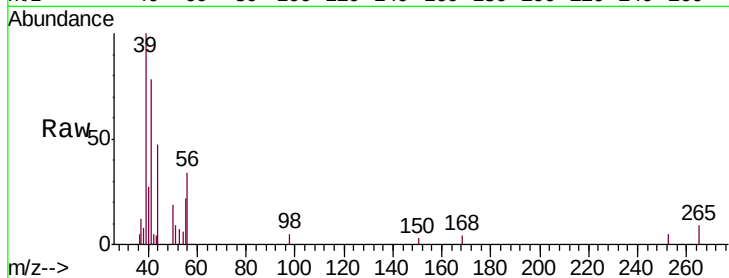




#16
 1,3-Butadiene
 Concen: 0.101 ppbv
 RT: 3.29 min Scan# 158
 Delta R.T. 0.00 min
 Lab File: VL034606.D
 Acq: 6 Feb 2020 19:33

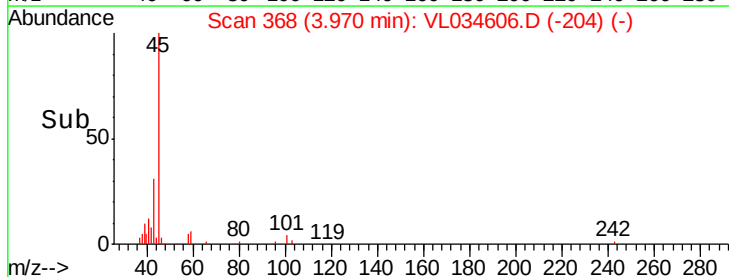
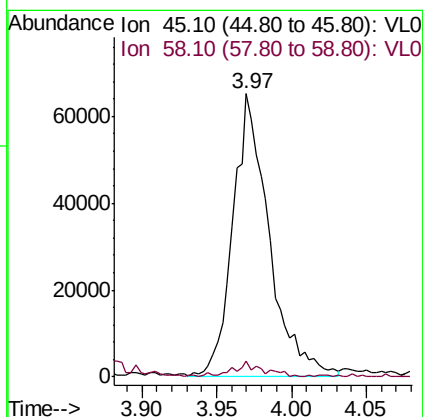
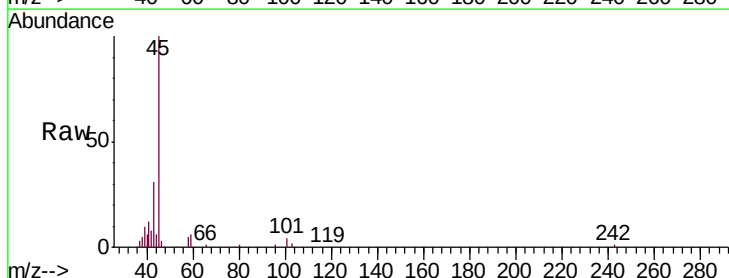
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2

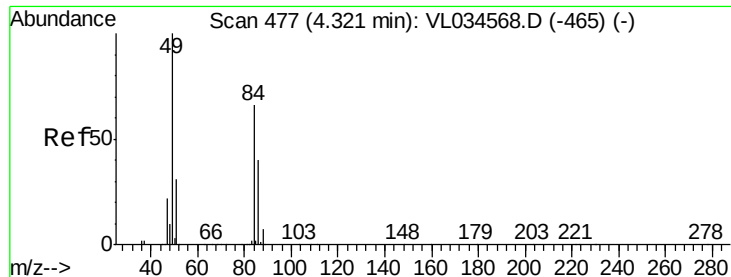
Tgt Ion: 39 Resp: 5181
 Ion Ratio Lower Upper
 39 100
 54 14.4 66.7 100.1#



#19
 Isopropyl Alcohol
 Concen: 1.456 ppbv
 RT: 3.97 min Scan# 368
 Delta R.T. 0.03 min
 Lab File: VL034606.D
 Acq: 6 Feb 2020 19:33

Tgt Ion: 45 Resp: 110219
 Ion Ratio Lower Upper
 45 100
 58 4.7 1.7 2.5#

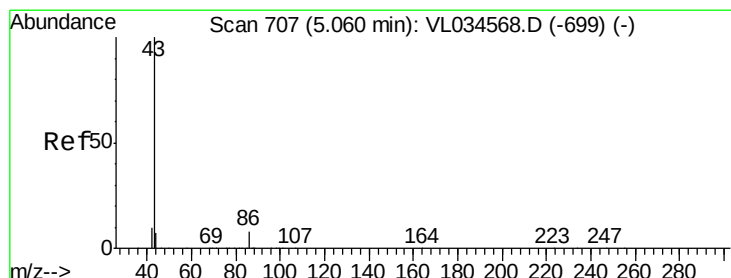
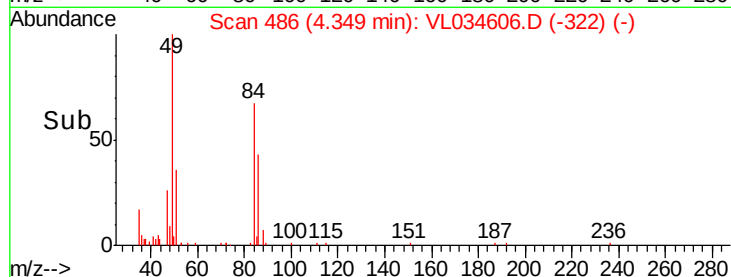
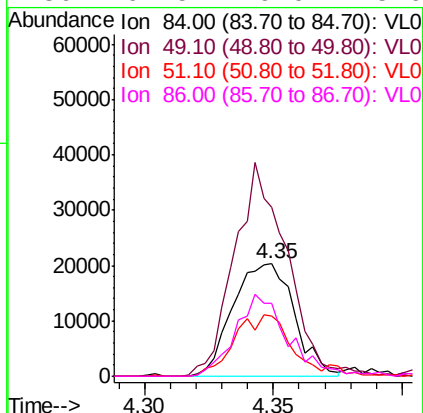
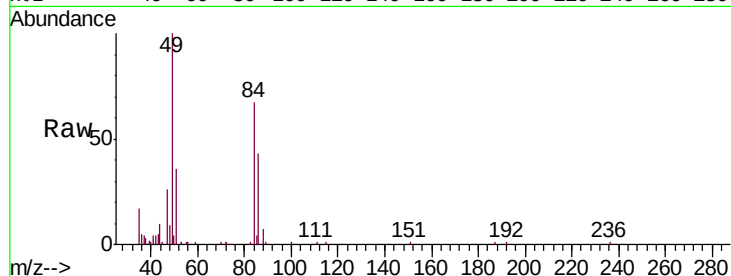




#20
Methylene Chloride
Concen: 0.685 ppbv
RT: 4.35 min Scan# 486
Delta R.T. 0.03 min
Lab File: VL034606.D
Acq: 6 Feb 2020 19:33

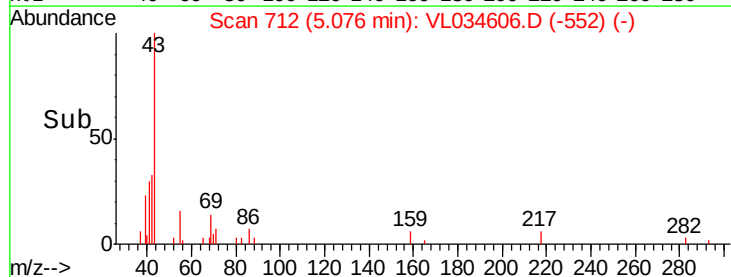
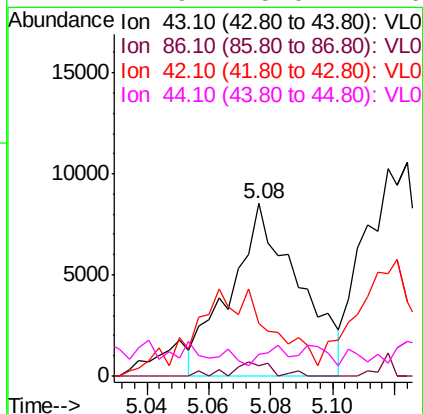
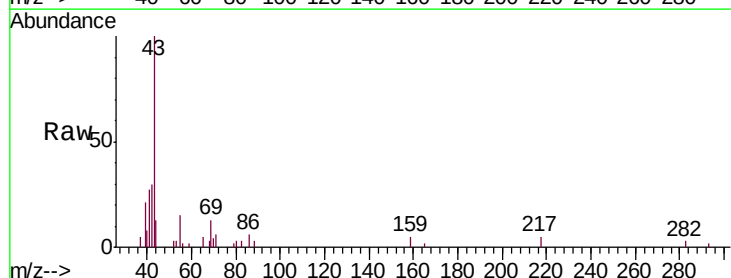
Instrument :
MSVOA_L
ClientSampled :
IA-2

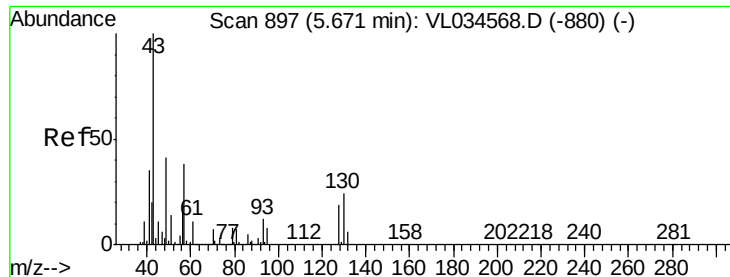
Tgt Ion:	84	Resp:	33825
Ion	Ratio	Lower	Upper
84	100		
49	148.8	122.4	183.6
51	53.8	38.6	57.8
86	64.5	49.0	73.6



#23
Vinyl Acetate
Concen: 0.088 ppbv
RT: 5.08 min Scan# 712
Delta R.T. 0.02 min
Lab File: VL034606.D
Acq: 6 Feb 2020 19:33

Tgt Ion:	43	Resp:	13085
Ion	Ratio	Lower	Upper
43	100		
86	7.3	5.9	8.9
42	17.1	8.8	13.2#
44	7.9	5.0	7.6#

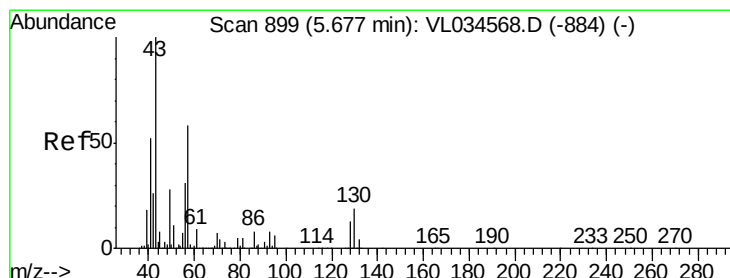
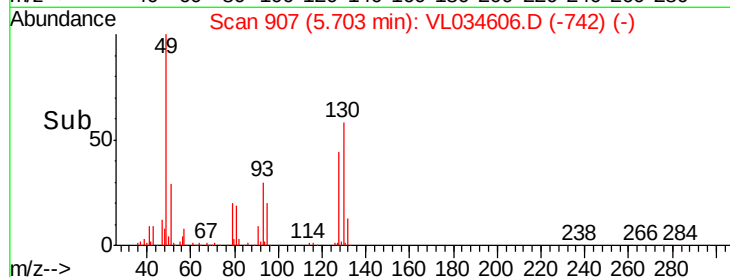
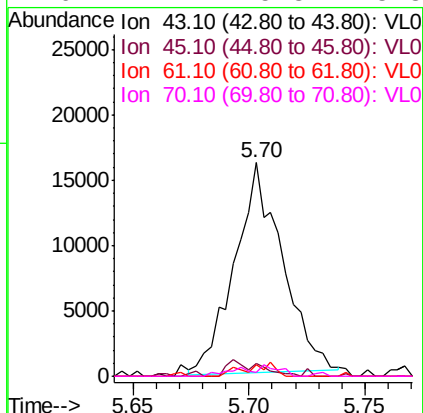
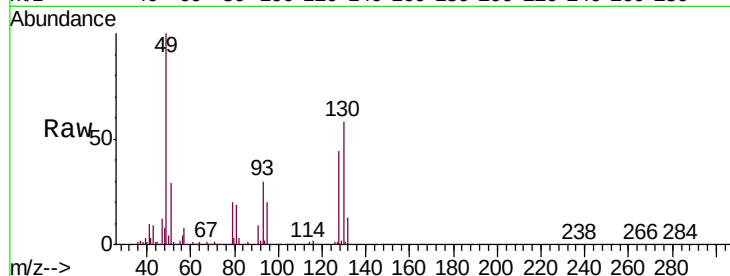




#25
Ethyl Acetate
Concen: 0.109 ppbv
RT: 5.70 min Scan# 907
Delta R.T. 0.03 min
Lab File: VL034606.D
Acq: 6 Feb 2020 19:33

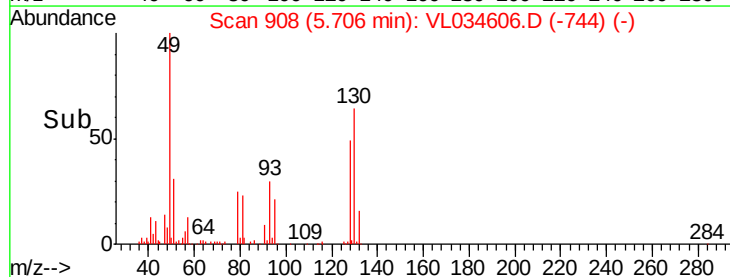
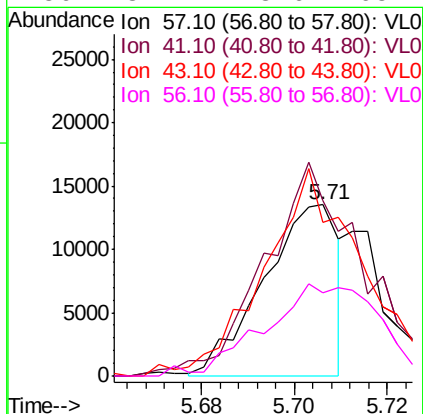
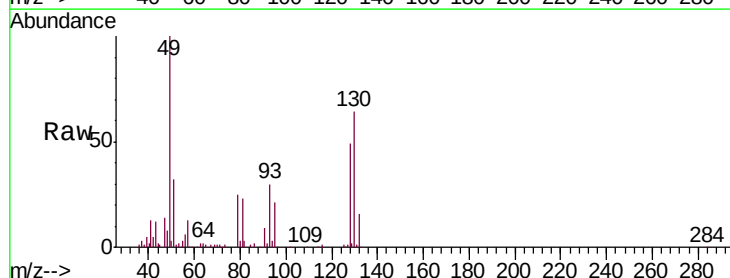
Instrument :
MSVOA_L
ClientSampleId :
IA-2

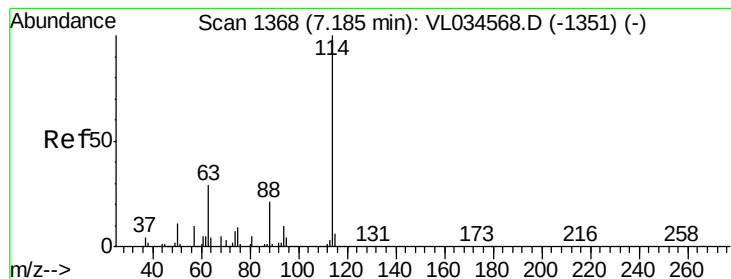
Tgt Ion:	43	Resp:	22974
Ion	Ratio	Lower	Upper
43	100		
45	6.5	8.5	12.7#
61	3.8	7.8	11.6#
70	4.7	5.8	8.8#



#26
Hexane
Concen: 0.172 ppbv
RT: 5.71 min Scan# 908
Delta R.T. 0.03 min
Lab File: VL034606.D
Acq: 6 Feb 2020 19:33

Tgt Ion:	57	Resp:	15147
Ion	Ratio	Lower	Upper
57	100		
41	168.7	76.2	114.2#
43	162.7	189.9	284.9#
56	84.7	43.6	65.4#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.21 min Scan# 1375

Delta R.T. 0.02 min

Lab File: VL034606.D

Acq: 6 Feb 2020 19:33

Instrument :

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ClientSampleID :

IA-2

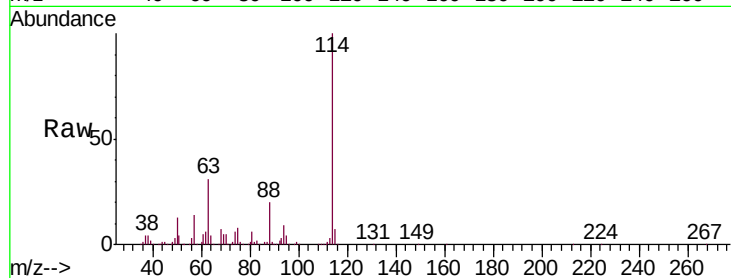
Tgt Ion:114 Resp: 1832342

Ion Ratio Lower Upper

114 100

63 30.3 24.1 36.1

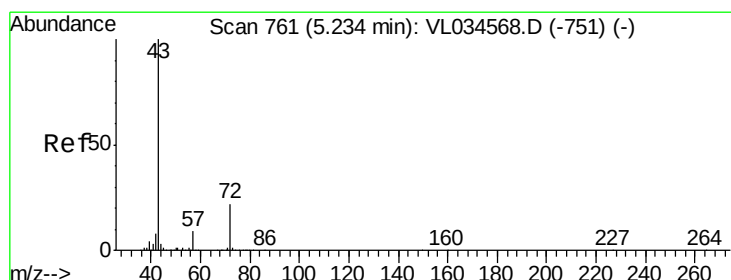
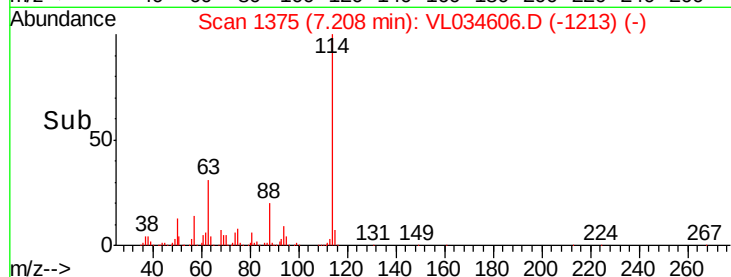
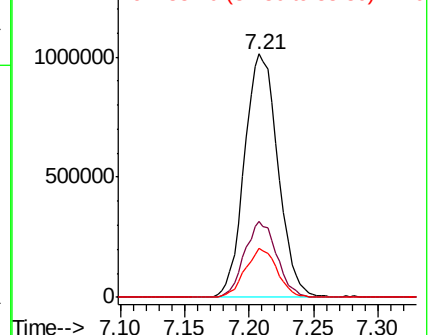
88 19.2 15.9 23.9



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



#34

2-Butanone

Concen: 0.121 ppbv

RT: 5.27 min Scan# 772

Delta R.T. 0.04 min

Lab File: VL034606.D

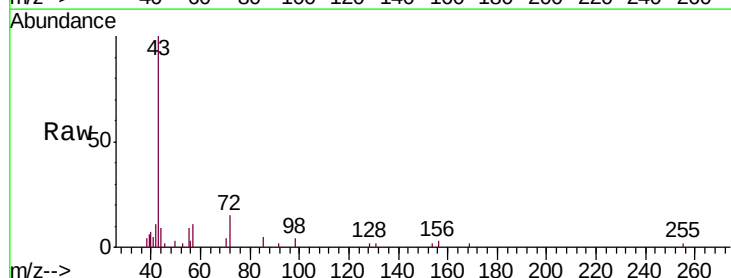
Acq: 6 Feb 2020 19:33

Tgt Ion: 43 Resp: 16048

Ion Ratio Lower Upper

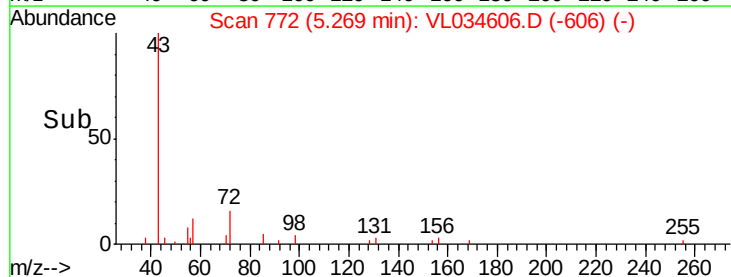
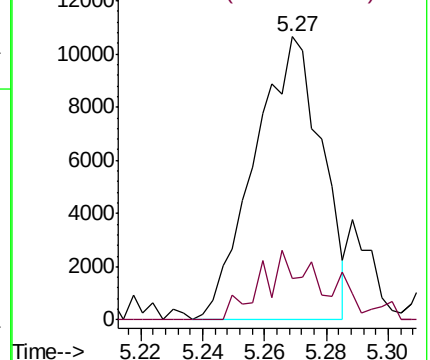
43 100

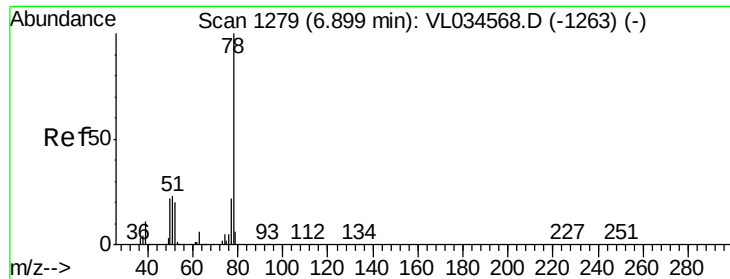
72 23.8 17.2 25.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#36

Benzene

Concen: 0.144 ppbv

RT: 6.92 min Scan# 1285

Delta R.T. 0.02 min

Lab File: VL034606.D

Acq: 6 Feb 2020 19:33

Instrument :

MSVOA_L

ClientSampleId :

IA-2

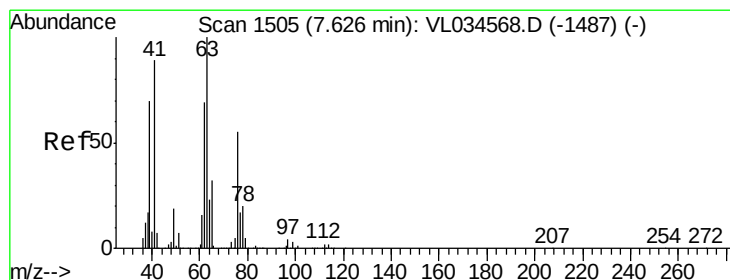
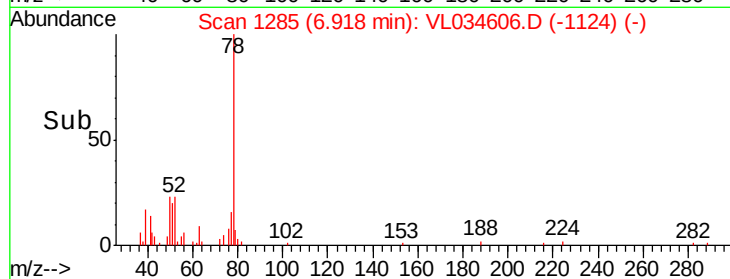
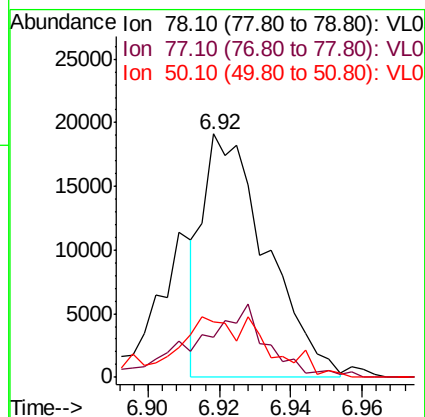
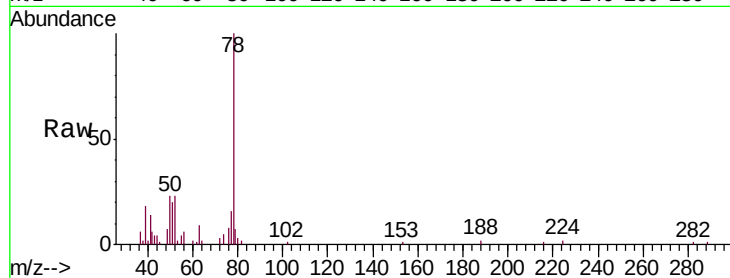
Tgt Ion: 78 Resp: 23453

Ion Ratio Lower Upper

78 100

77 13.3 17.3 25.9#

50 21.0 17.4 26.2



#39

1,2-Dichloropropane

Concen: 8.057 ppbv

RT: 7.21 min Scan# 1375

Delta R.T. -0.42 min

Lab File: VL034606.D

Acq: 6 Feb 2020 19:33

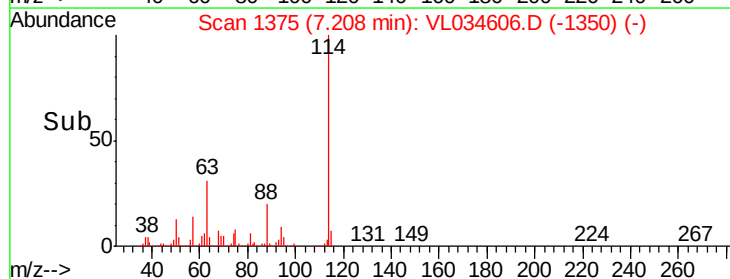
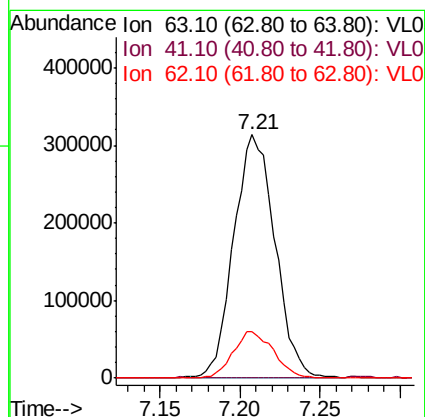
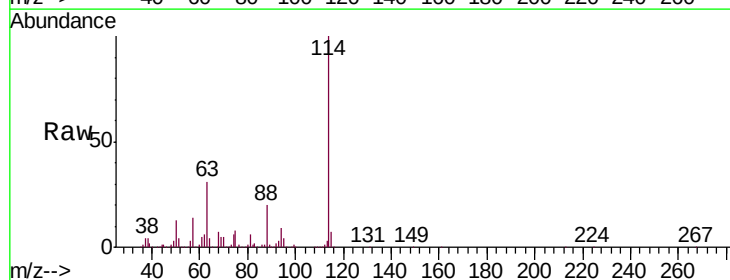
Tgt Ion: 63 Resp: 544287

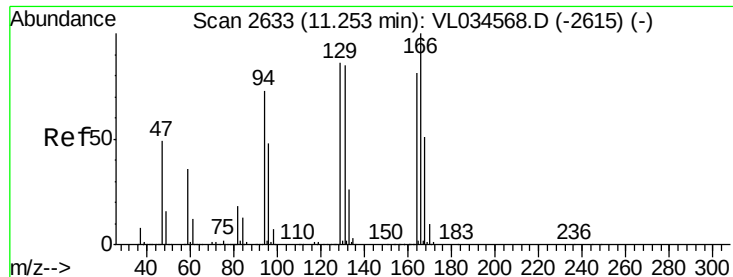
Ion Ratio Lower Upper

63 100

41 0.0 71.0 106.4#

62 19.1 55.4 83.0#





#52

Tetrachloroethene

Concen: 0.077 ppbv

RT: 11.28 min Scan# 2643

Delta R.T. 0.03 min

Lab File: VL034606.D

Acq: 6 Feb 2020 19:33

Instrument :

MSVOA_L

ClientSampleId :

IA-2

Tgt Ion:164 Resp: 5047

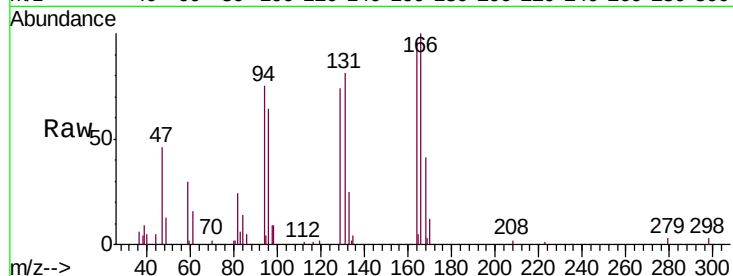
Ion Ratio Lower Upper

164 100

166 68.7 99.0 148.4#

129 57.4 85.3 127.9#

131 8.4 84.2 126.2#

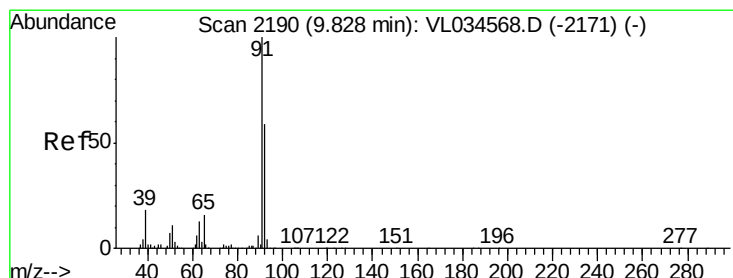
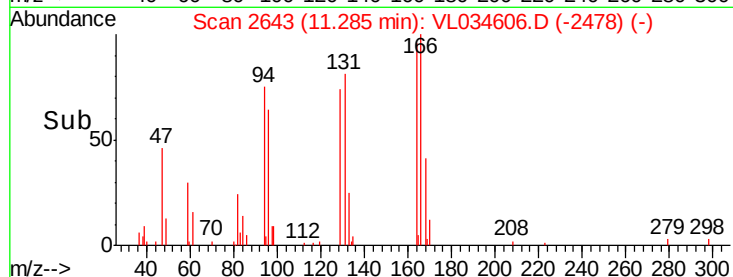
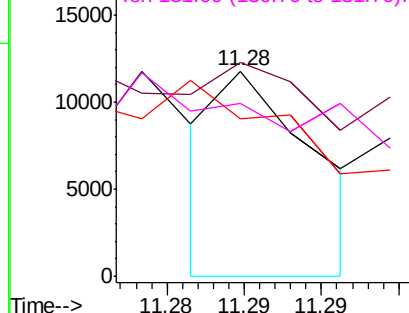


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 0.111 ppbv

RT: 9.86 min Scan# 2200

Delta R.T. 0.03 min

Lab File: VL034606.D

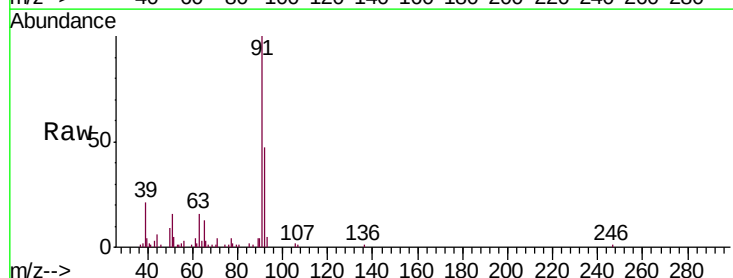
Acq: 6 Feb 2020 19:33

Tgt Ion: 91 Resp: 19947

Ion Ratio Lower Upper

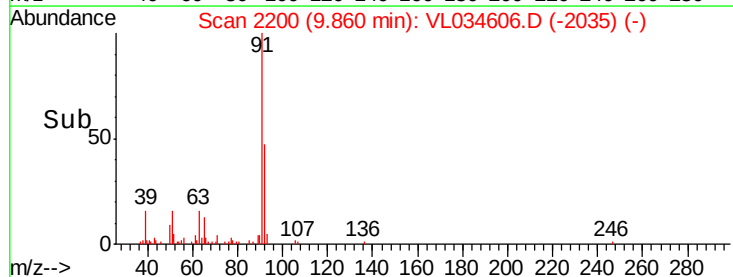
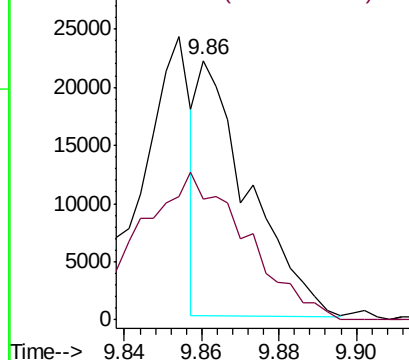
91 100

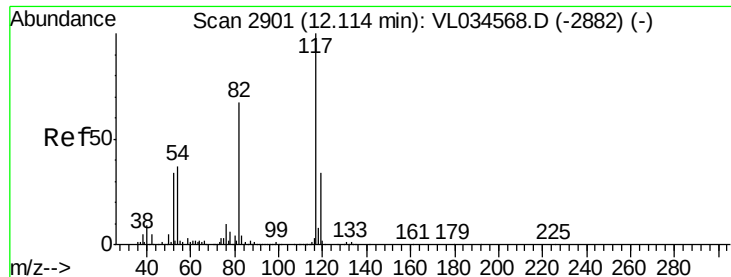
92 127.4 48.2 72.2#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

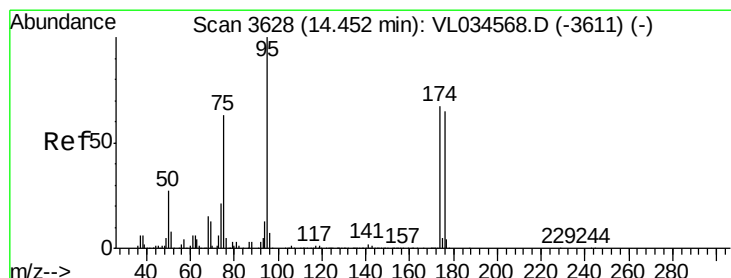
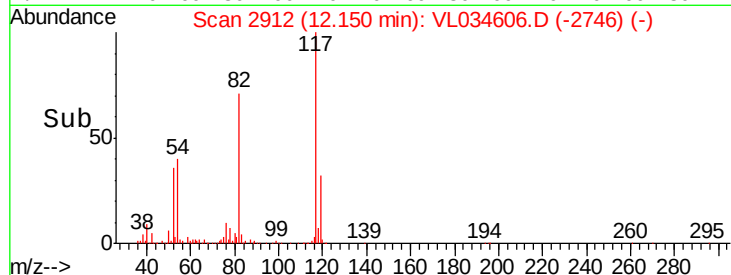
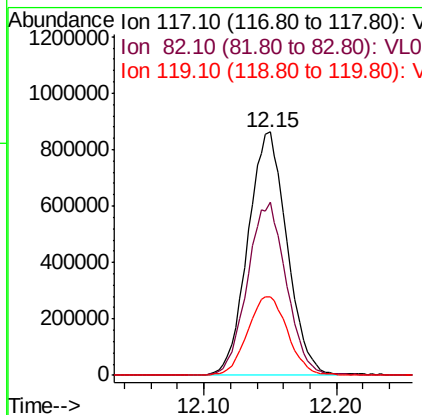
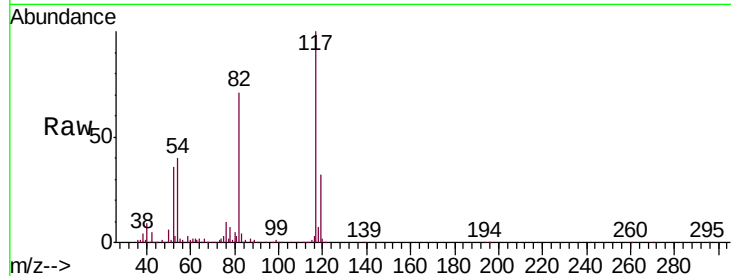




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.15 min Scan# 2912
Delta R.T. 0.04 min
Lab File: VL034606.D
Acq: 6 Feb 2020 19:33

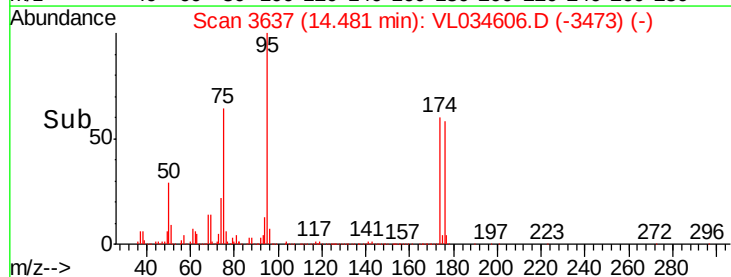
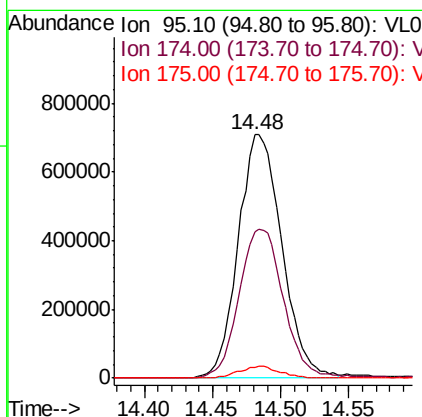
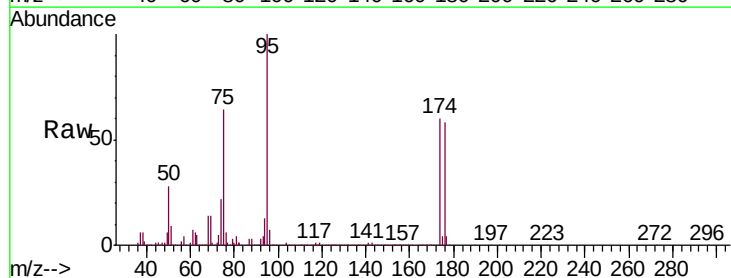
Instrument :
MSVOA_L
ClientSampleId :
IA-2

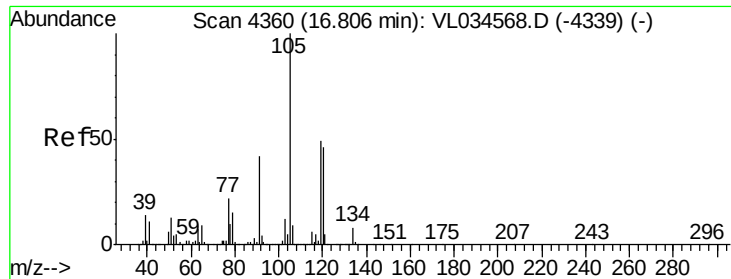
Tgt Ion: 117 Resp: 1768902
Ion Ratio Lower Upper
117 100
82 71.2 54.2 81.4
119 33.5 26.1 39.1



#68
1-Bromo-4-Fluorobenzene
Concen: 10.492 ppbv
RT: 14.48 min Scan# 3637
Delta R.T. 0.03 min
Lab File: VL034606.D
Acq: 6 Feb 2020 19:33

Tgt Ion: 95 Resp: 1568558
Ion Ratio Lower Upper
95 100
174 63.2 52.3 78.5
175 4.6 3.8 5.6





#74
 1,2,4-Trimethylbenzene
 Concen: 0.032 ppbv
 RT: 16.84 min Scan# 4370
 Delta R.T. 0.03 min
 Lab File: VL034606.D
 Acq: 6 Feb 2020 19:33

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2

Tgt Ion:	105	Resp:	7873
Ion	Ratio	Lower	Upper
105	100		
120	29.9	37.1	55.7#
91	4.6	34.3	51.5#
77	14.7	17.5	26.3#

