

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL112519\
 Data File : VL034414.D
 Acq On : 25 Nov 2019 20:18
 Operator : SY/AP
 Sample : K5971-07DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Nov 26 00:45:14 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111919AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Nov 19 14:15:35 2019
 QLast Update : Tue Nov 19 14:15:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	904462	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	1776739	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.13	117	1737958	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.47	95	1468007	10.04	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.40%

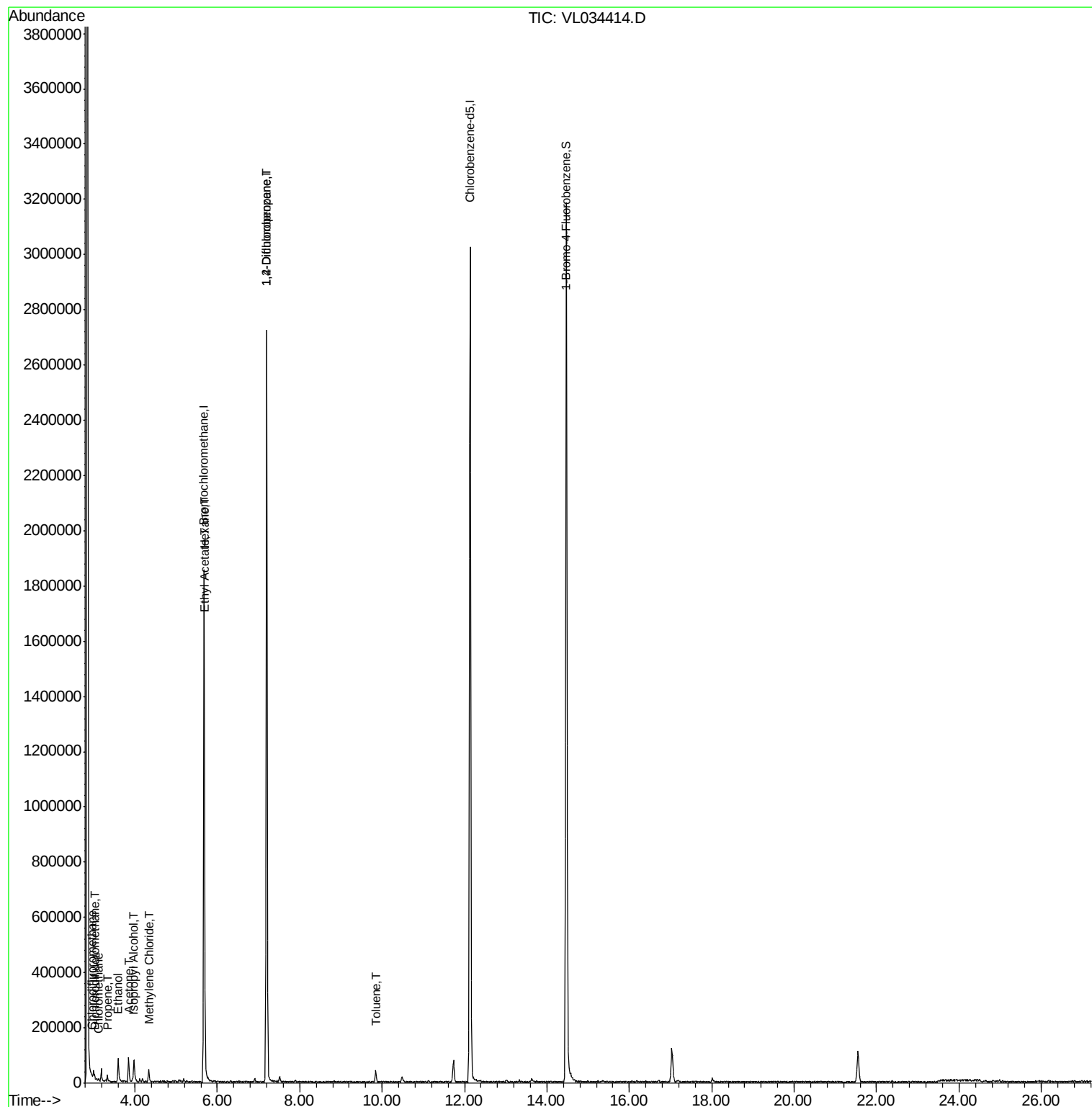
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	9647	0.059	ppbv	92
3) Chlorodifluoromethane	2.96	51	7122	0.063	ppbv #	90
4) Chloromethane	3.11	50	2244	0.034	ppbv	89
9) Propene	3.33	41	4883	0.097	ppbv	90
13) Ethanol	3.59	45	83639	5.993	ppbv	99
15) Acetone	3.84	43	79647	0.615	ppbv	99
19) Isopropyl Alcohol	3.97	45	44529	0.536	ppbv #	87
20) Methylene Chloride	4.34	84	13127	0.286	ppbv #	82
25) Ethyl Acetate	5.69	43	10690	0.046	ppbv #	79
26) Hexane	5.69	57	4167	0.042	ppbv #	17
39) 1,2-Dichloropropane	7.20	63	526434	7.694	ppbv #	23
53) Toluene	9.85	91	24776	0.123	ppbv	92

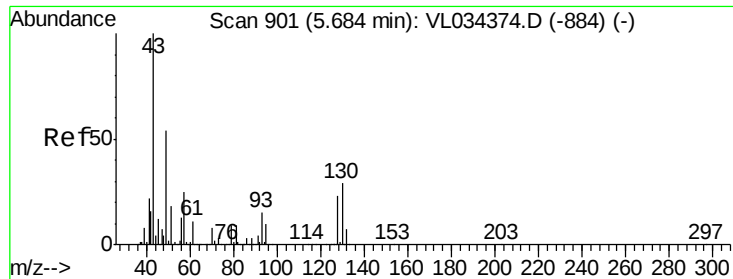
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Nov 19 14:15:35 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 898

Delta R.T. -0.01 min

Lab File: VL034414.D

Acq: 25 Nov 2019 20:18

Instrument :

MSVOA_L

ClientSampleId :

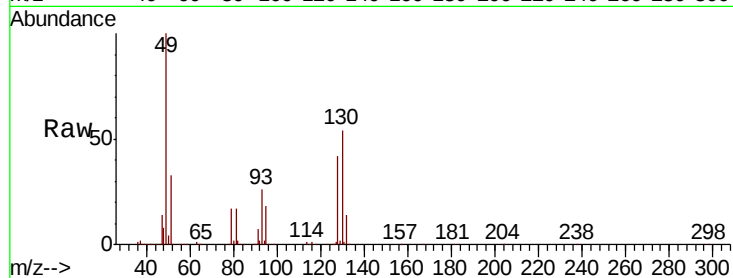
Tot Ion: 49 Resp: 904462

Ion Ratio Lower Upper

49 100

128 42.4 21.8 65.3

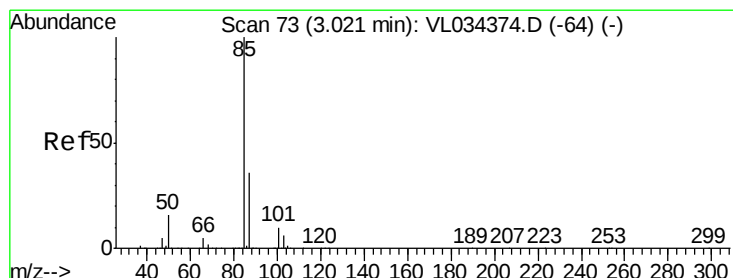
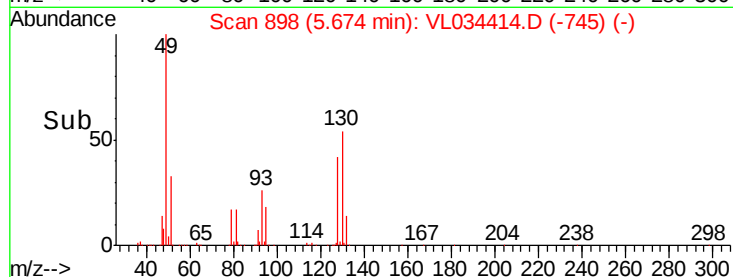
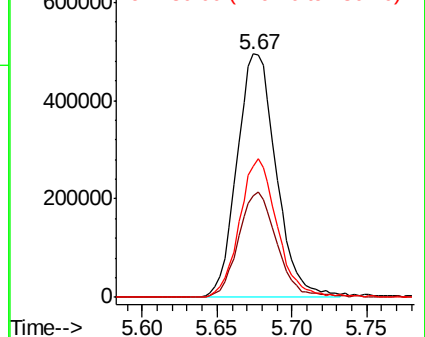
130 55.0 28.0 84.0



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: 3.02 min Scan# 73

Delta R.T. 0.00 min

Lab File: VL034414.D

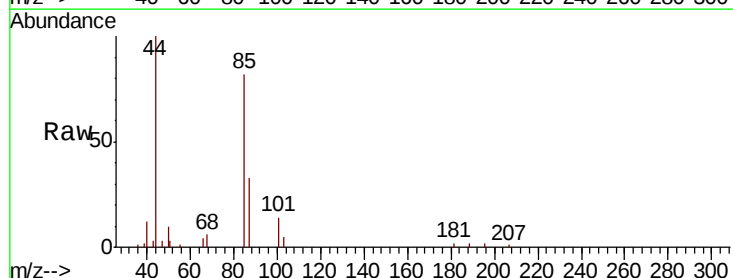
Acq: 25 Nov 2019 20:18

Tgt Ion: 85 Resp: 9647

Ion Ratio Lower Upper

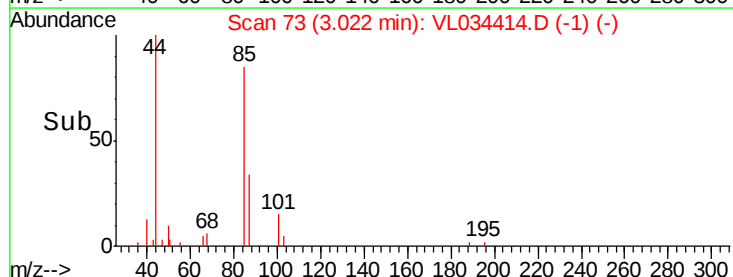
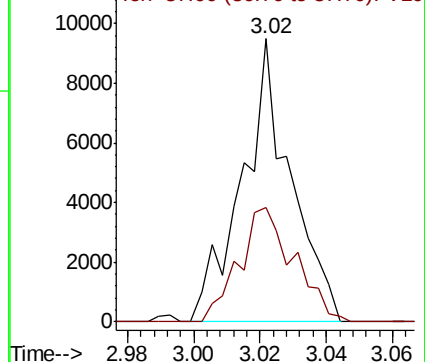
85 100

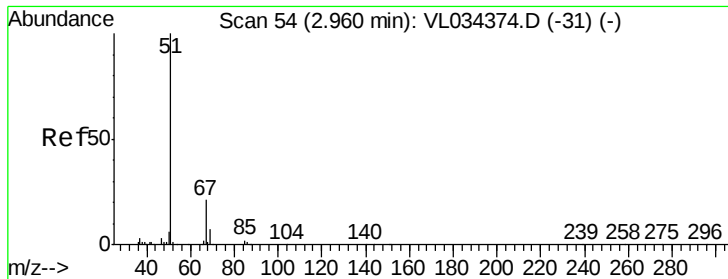
87 40.2 28.5 42.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.063 ppbv

RT: 2.96 min Scan# 54

Delta R.T. 0.00 min

Lab File: VL034414.D

Acq: 25 Nov 2019 20:18

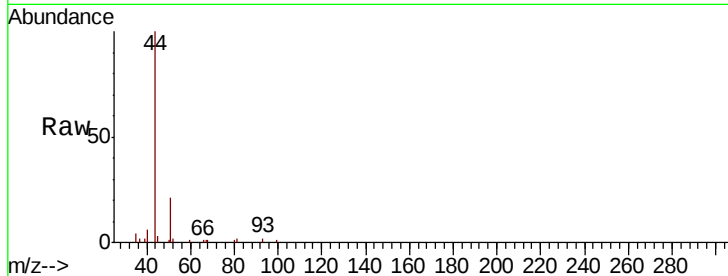
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 51 Resp: 7122

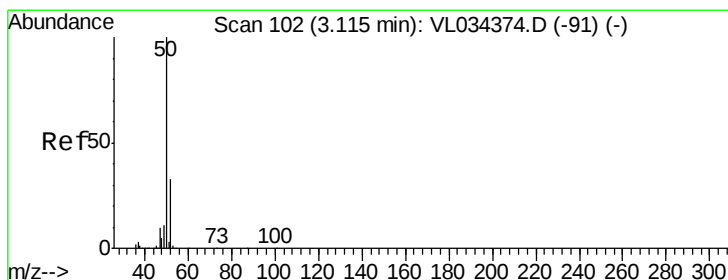
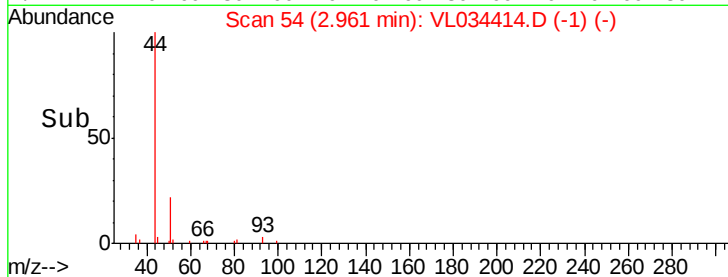
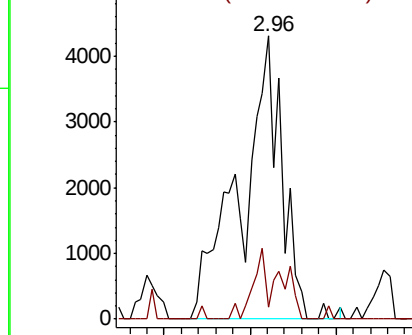
Ion Ratio Lower Upper

51 100

67 15.7 16.2 24.2#



Abundance Ion 51.00 (50.70 to 51.70): VL0
Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.034 ppbv

RT: 3.11 min Scan# 102

Delta R.T. 0.00 min

Lab File: VL034414.D

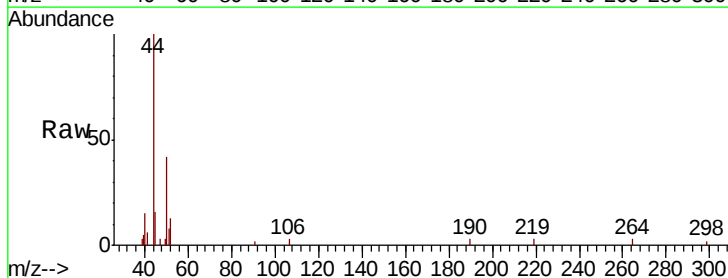
Acq: 25 Nov 2019 20:18

Tgt Ion: 50 Resp: 2244

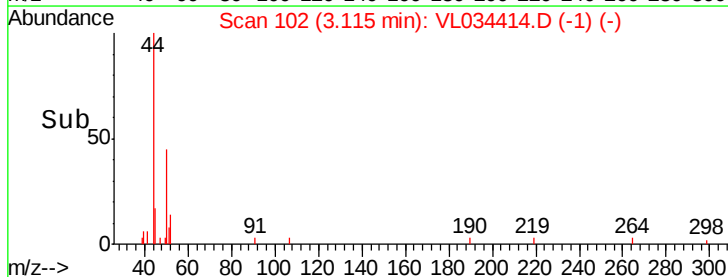
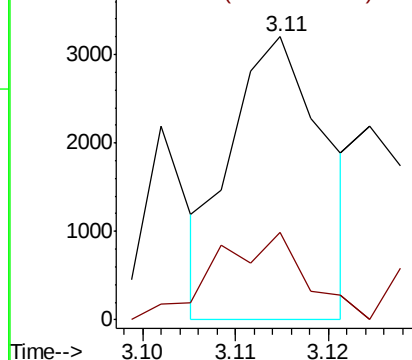
Ion Ratio Lower Upper

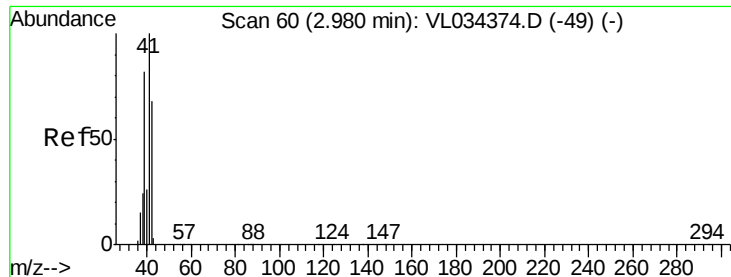
50 100

52 40.0 26.8 40.2



Abundance Ion 50.10 (49.80 to 50.80): VL0
Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.097 ppbv

RT: 3.33 min Scan# 170

Delta R.T. 0.35 min

Lab File: VL034414.D

Acq: 25 Nov 2019 20:18

Instrument :

MSVOA_L

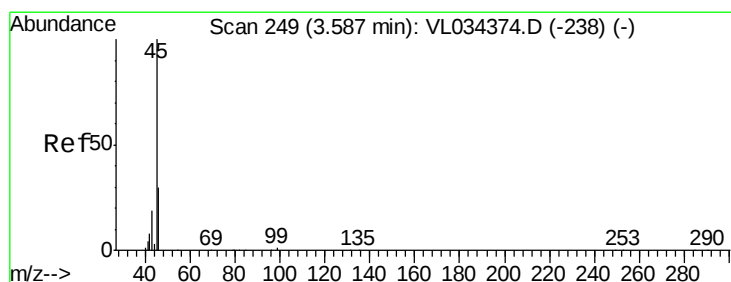
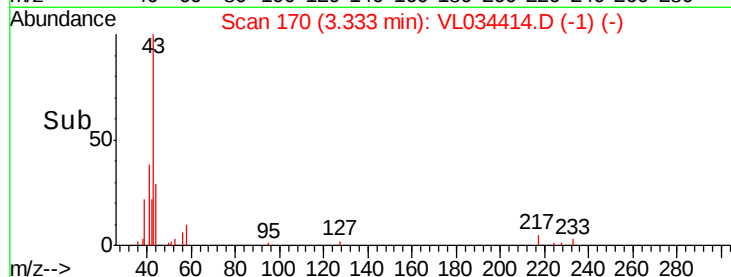
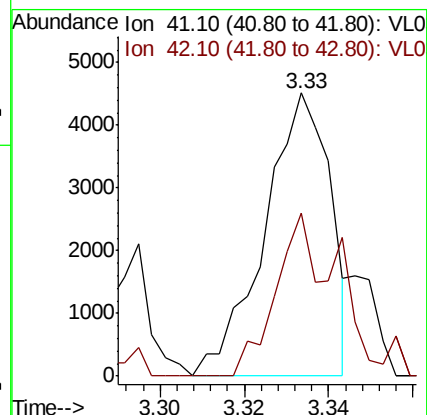
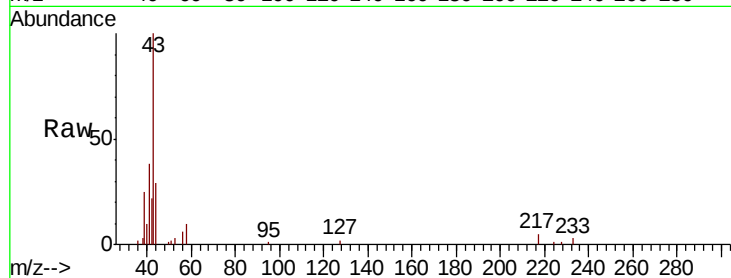
ClientSampleId :

Tot Ion: 41 Resp: 4883

Ion Ratio Lower Upper

41 100

42 60.2 54.6 82.0



#13

Ethanol

Concen: 5.993 ppbv

RT: 3.59 min Scan# 250

Delta R.T. 0.00 min

Lab File: VL034414.D

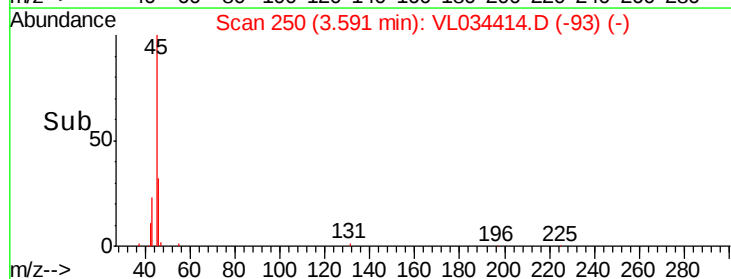
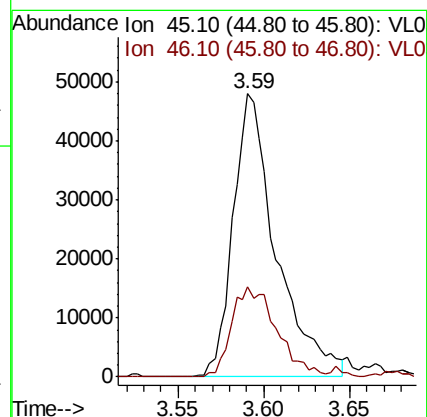
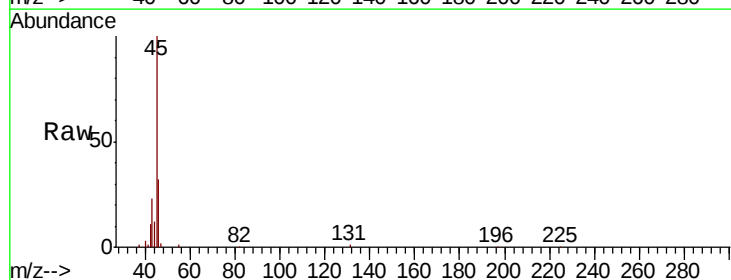
Acq: 25 Nov 2019 20:18

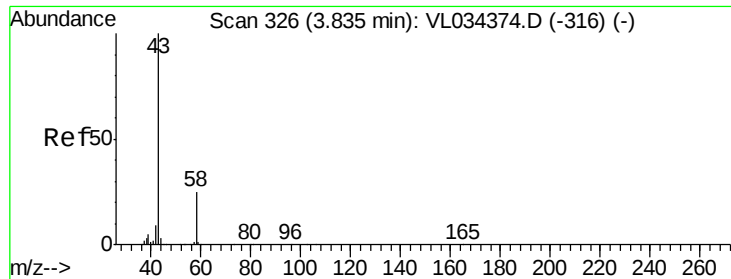
Tgt Ion: 45 Resp: 83639

Ion Ratio Lower Upper

45 100

46 34.3 13.8 55.4





#15

Acetone

Concen: 0.615 ppbv

RT: 3.84 min Scan# 329

Delta R.T. 0.01 min

Lab File: VL034414.D

Acq: 25 Nov 2019 20:18

Instrument :

MSVOA_L

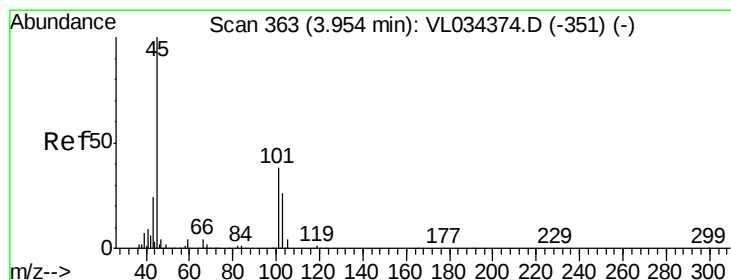
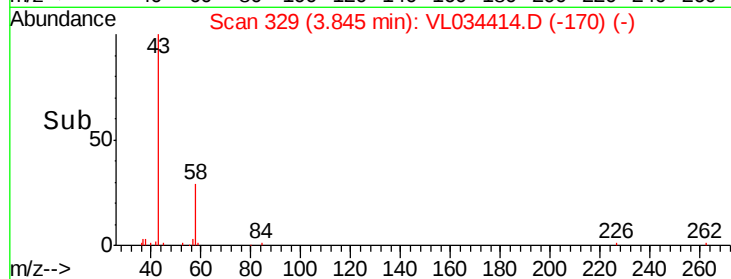
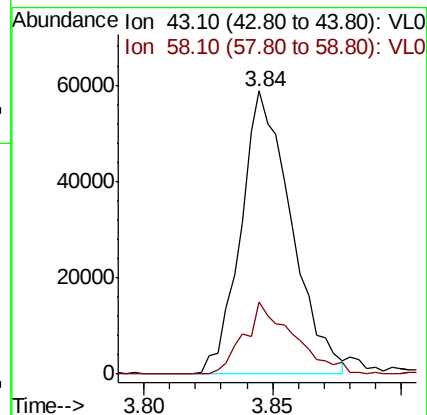
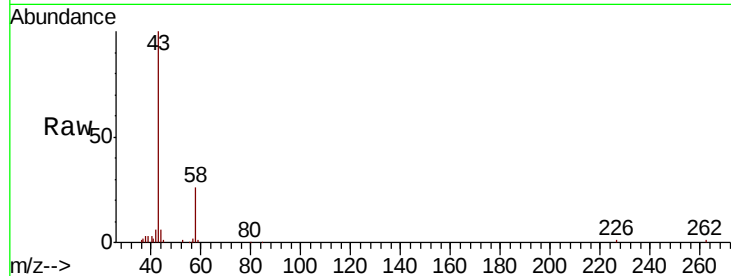
ClientSampleId :

Tot Ion: 43 Resp: 79647

Ion Ratio Lower Upper

43 100

58 25.8 20.2 30.4



#19

Isopropyl Alcohol

Concen: 0.536 ppbv

RT: 3.97 min Scan# 367

Delta R.T. 0.01 min

Lab File: VL034414.D

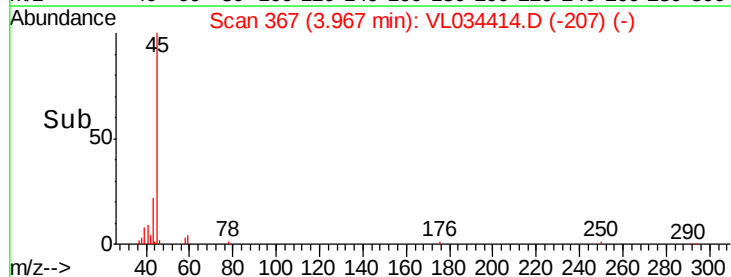
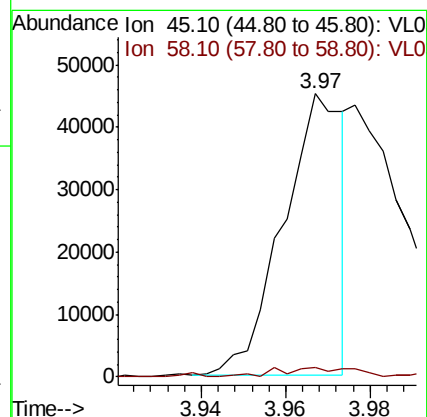
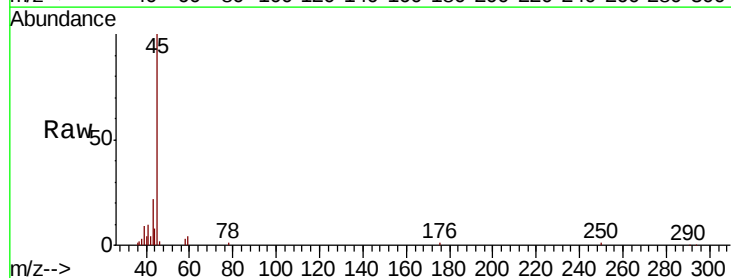
Acq: 25 Nov 2019 20:18

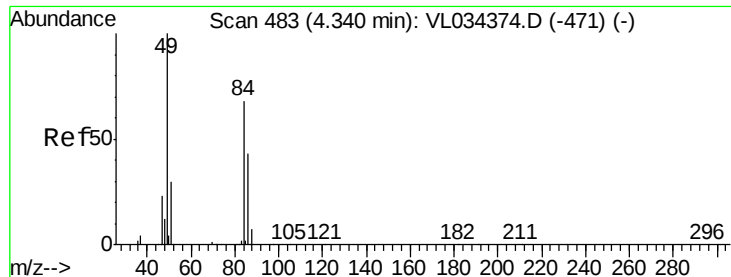
Tgt Ion: 45 Resp: 44529

Ion Ratio Lower Upper

45 100

58 6.3 1.3 1.9#

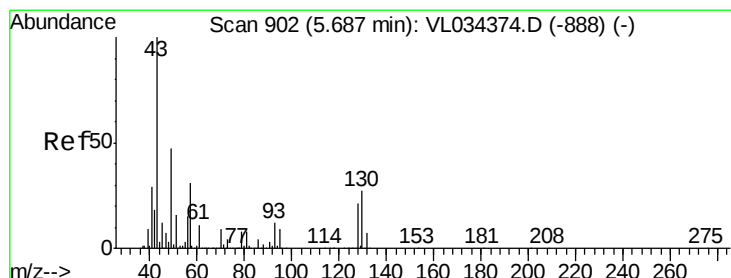
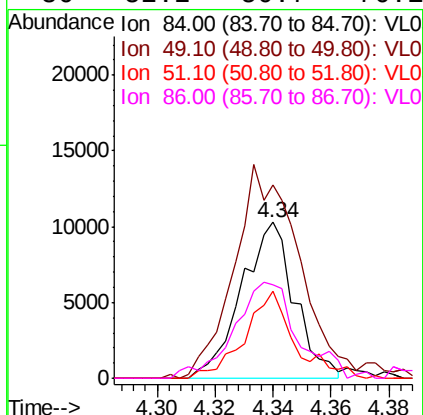
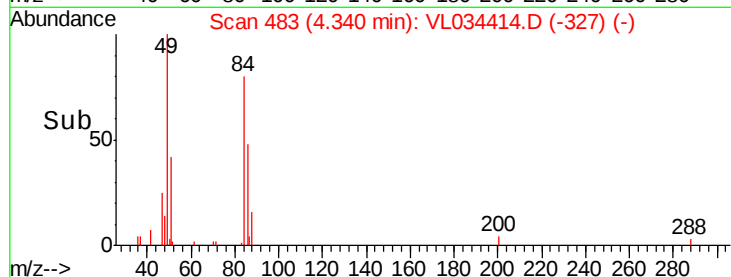
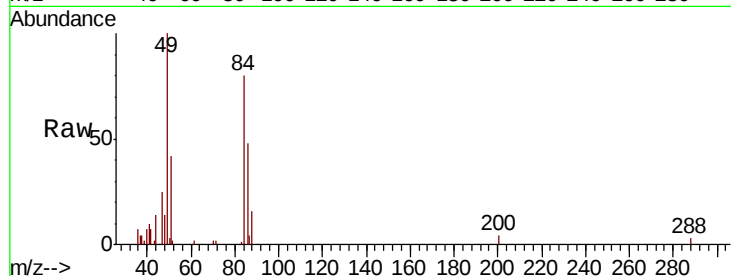




#20
Methvlene Chloride
Concen: 0.286 ppbv
RT: 4.34 min Scan# 483
Delta R.T. 0.00 min
Lab File: VL034414.D
Acq: 25 Nov 2019 20:18

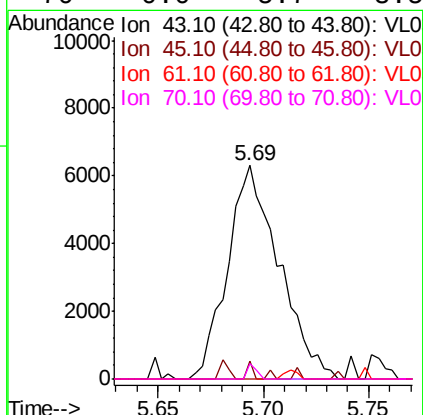
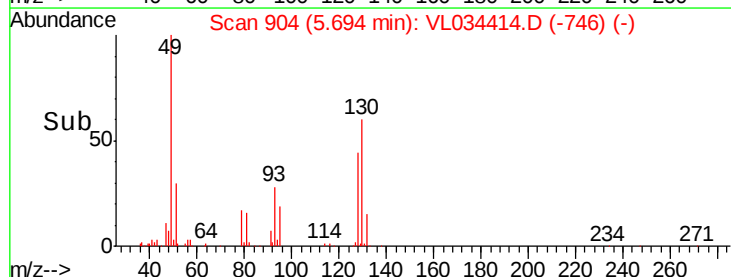
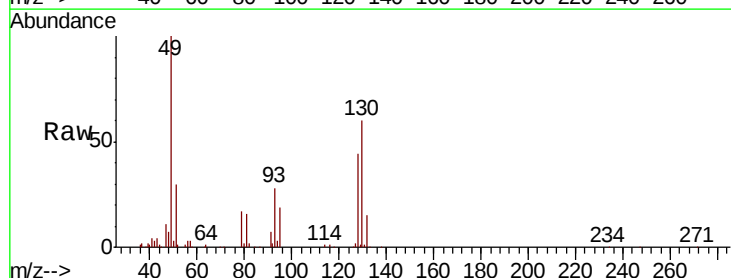
Instrument :
MSVOA_L
ClientSampleId :

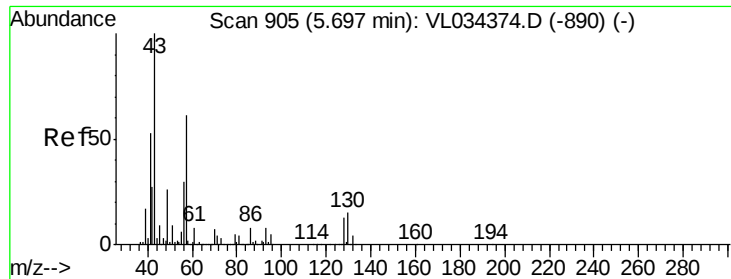
Tot Ion: 84 Resp: 13127
Ion Ratio Lower Upper
84 100
49 122.3 116.8 175.2
51 55.8 35.6 53.4#
86 52.2 50.7 76.1



#25
Ethyl Acetate
Concen: 0.046 ppbv
RT: 5.69 min Scan# 904
Delta R.T. 0.01 min
Lab File: VL034414.D
Acq: 25 Nov 2019 20:18

Tgt Ion: 43 Resp: 10690
Ion Ratio Lower Upper
43 100
45 2.5 8.2 12.4#
61 1.1 7.5 11.3#
70 0.0 5.7 8.5#

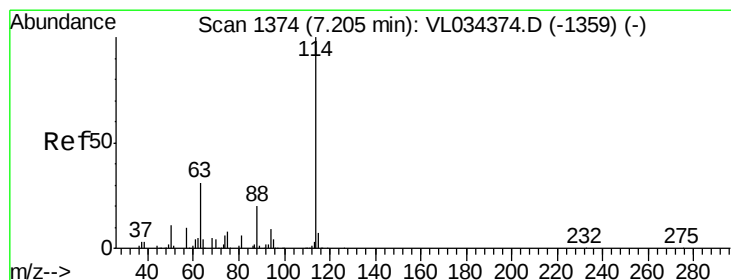
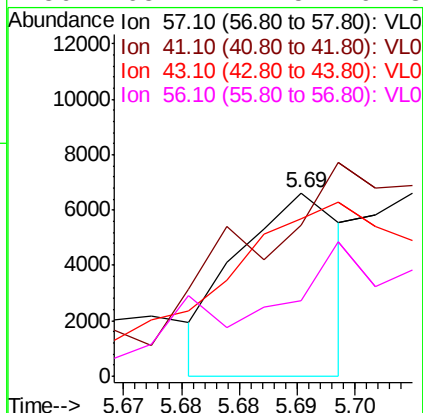
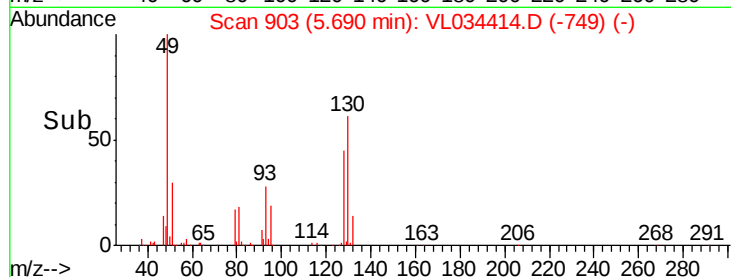
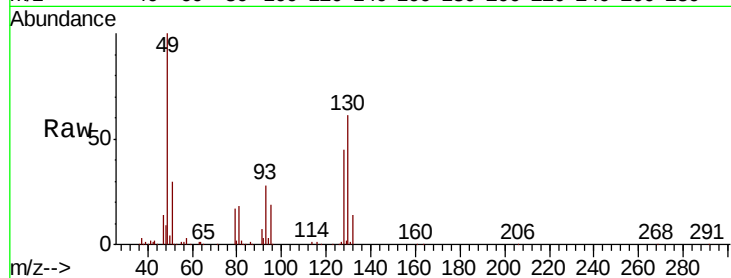




#26
Hexane
Concen: 0.042 ppbv
RT: 5.69 min Scan# 903
Delta R.T. -0.01 min
Lab File: VL034414.D
Acq: 25 Nov 2019 20:18

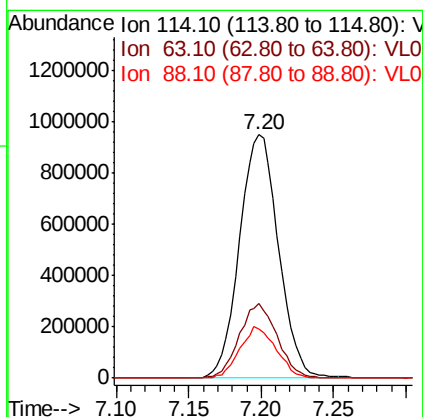
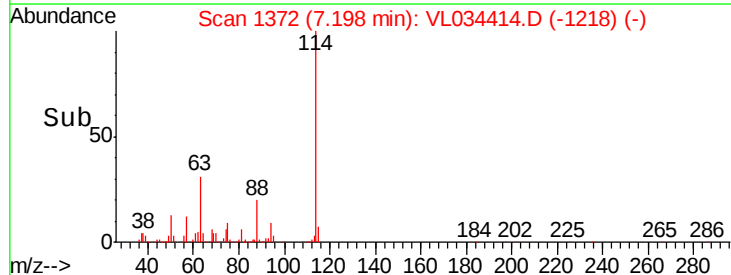
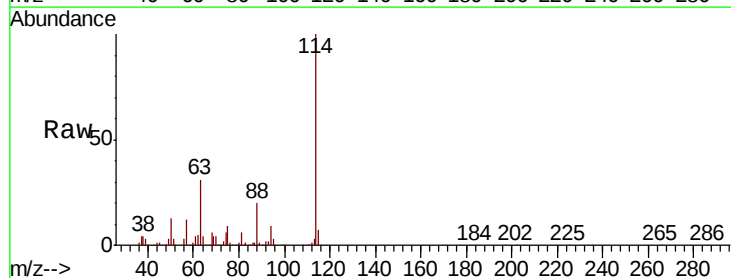
Instrument :
MSVOA_L
ClientSampled :

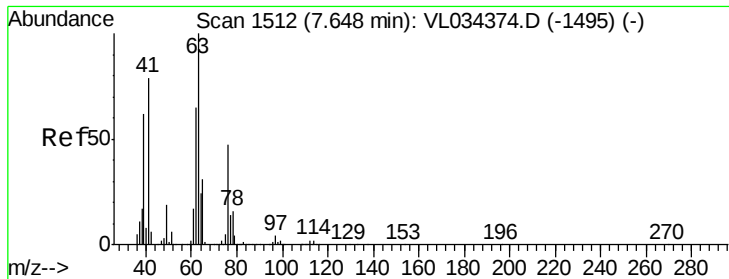
Tot Ion: 57 Resp: 4167
Ion Ratio Lower Upper
57 100
41 291.0 75.0 112.4#
43 260.6 186.6 279.8
56 165.1 41.5 62.3#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.20 min Scan# 1372
Delta R.T. -0.01 min
Lab File: VL034414.D
Acq: 25 Nov 2019 20:18

Tgt Ion: 114 Resp: 1776739
Ion Ratio Lower Upper
114 100
63 29.8 24.2 36.4
88 19.9 15.9 23.9

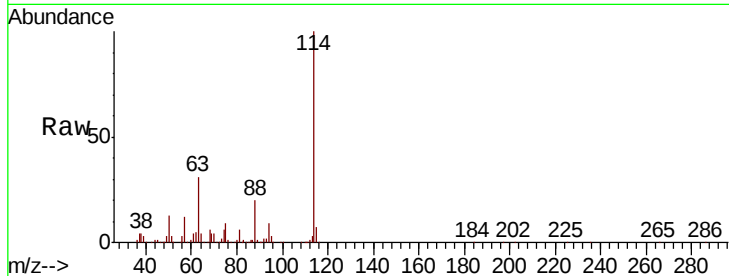




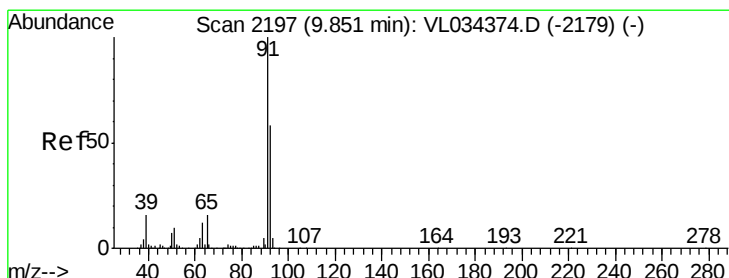
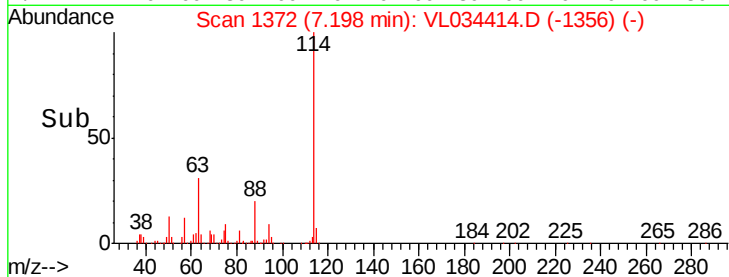
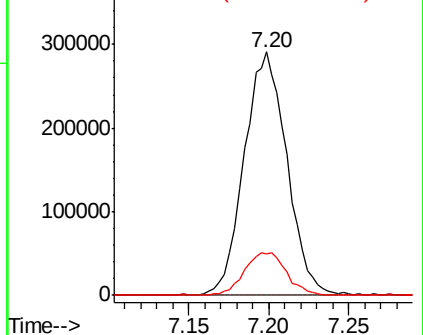
#39
 1,2-Dichloropropane
 Concen: 7.694 ppbv
 RT: 7.20 min Scan# 1372
 Delta R.T. -0.45 min
 Lab File: VL034414.D
 Acq: 25 Nov 2019 20:18

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
63	100		
41	0.0	63.1	94.7#
62	16.8	52.3	78.5#

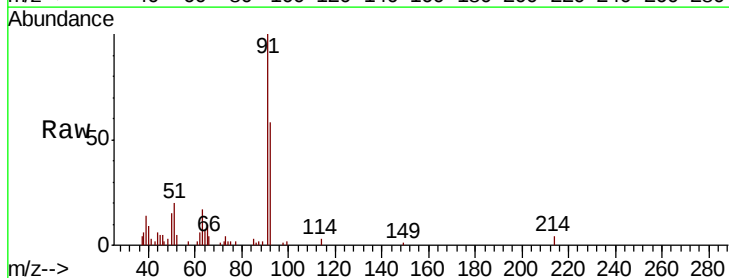


Abundance Ion 63.10 (62.80 to 63.80): VL0
 Ion 41.10 (40.80 to 41.80): VL0
 Ion 62.10 (61.80 to 62.80): VL0

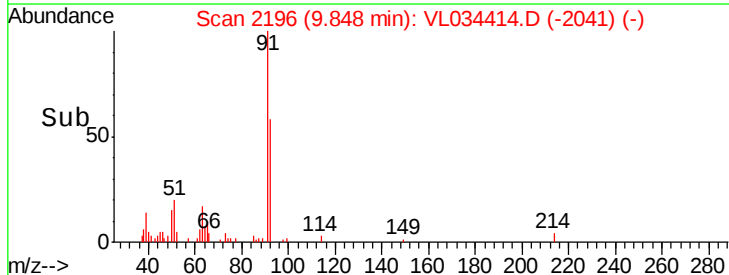
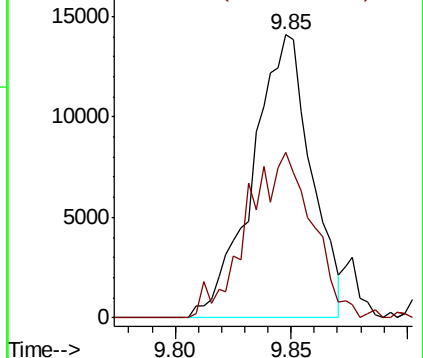


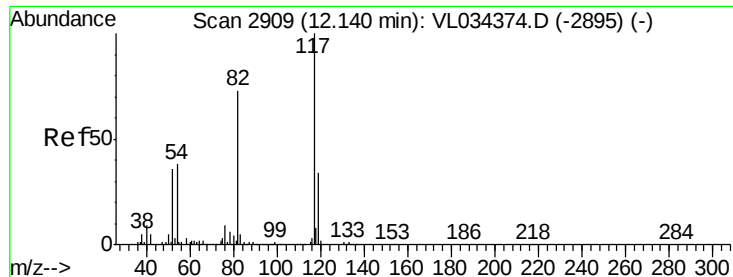
#53
 Toluene
 Concen: 0.123 ppbv
 RT: 9.85 min Scan# 2196
 Delta R.T. -0.00 min
 Lab File: VL034414.D
 Acq: 25 Nov 2019 20:18

Tgt Ion	Ratio	Lower	Upper
91	100		
92	66.2	47.9	71.9



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

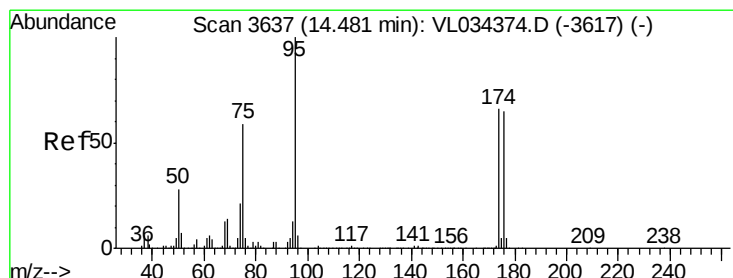
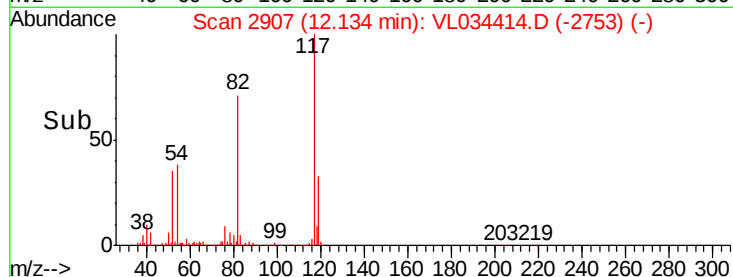
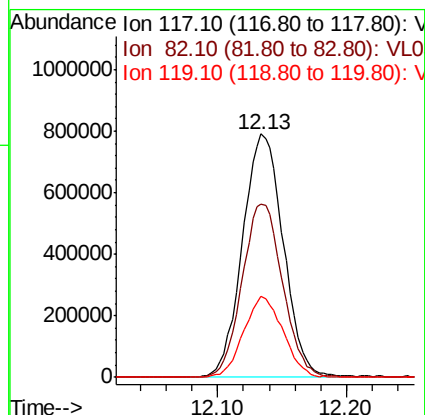
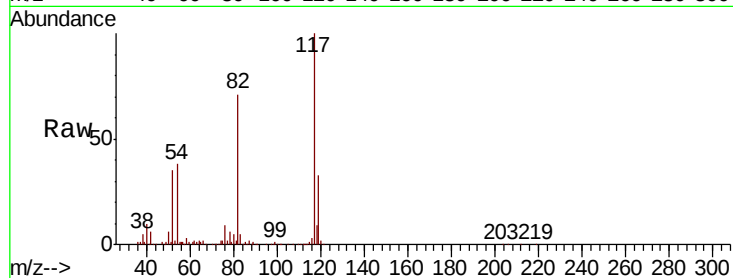




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.13 min Scan# 2907
Delta R.T. -0.01 min
Lab File: VL034414.D
Acq: 25 Nov 2019 20:18

Instrument :
MSVOA_L
ClientSampled :

Tot Ion:117 Resp: 1737958
Ion Ratio Lower Upper
117 100
82 71.3 57.5 86.3
119 32.3 25.4 38.2



#68
1-Bromo-4-Fluorobenzene
Concen: 10.040 ppbv
RT: 14.47 min Scan# 3635
Delta R.T. -0.01 min
Lab File: VL034414.D
Acq: 25 Nov 2019 20:18

Tgt Ion: 95 Resp: 1468007
Ion Ratio Lower Upper
95 100
174 65.8 52.2 78.2
175 4.8 3.8 5.8

