

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL120919\
 Data File : VL034487.D
 Acq On : 10 Dec 2019 6:06
 Operator : SY/AP
 Sample : K6181-04DL 10X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 1A-4DL

Quant Time: Dec 10 07:15:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL111919AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Tue 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	913070	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	1769716	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.13	117	1776614	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.47	95	1522796	10.19	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.90%

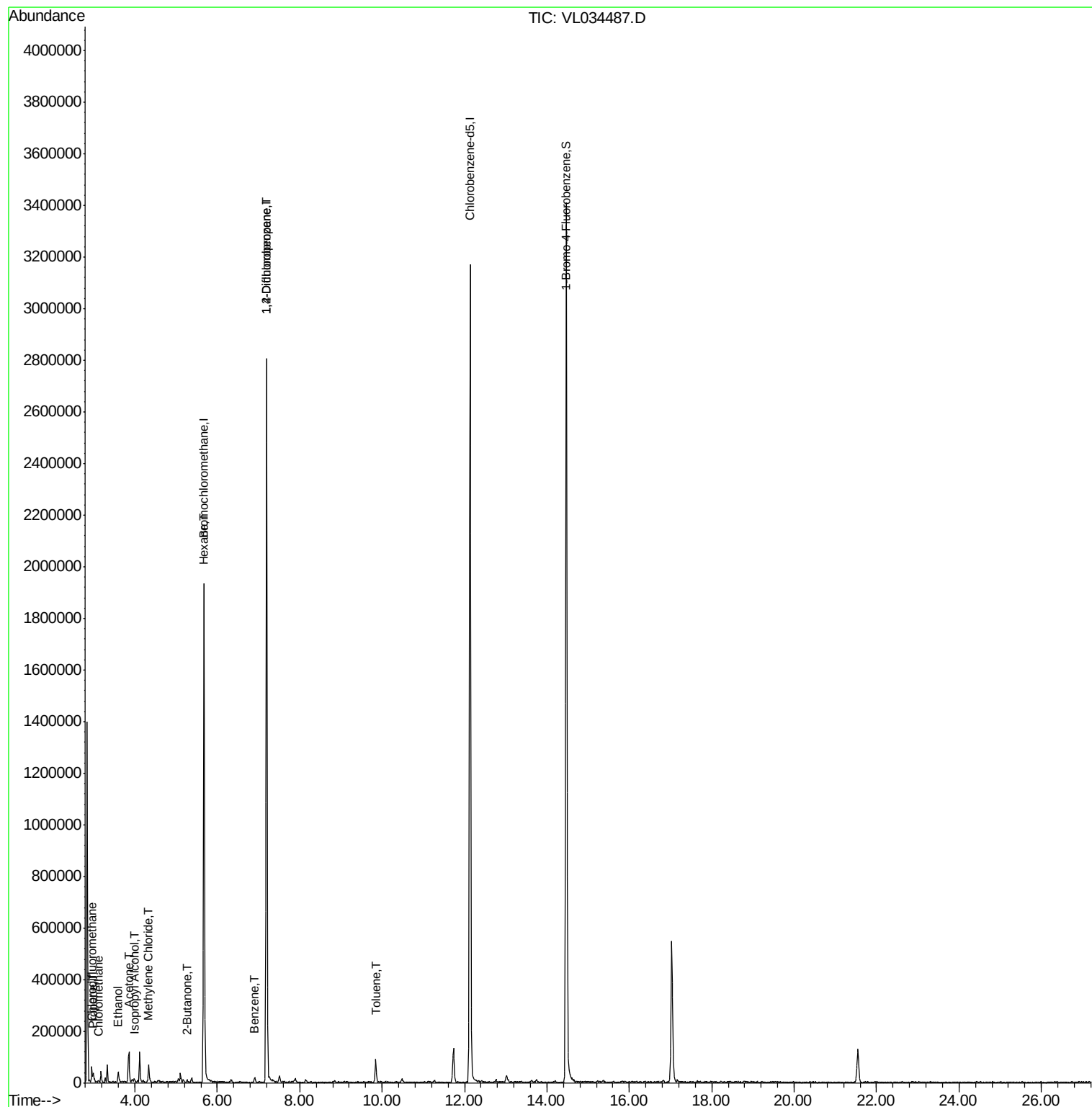
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	2.96	51	46677	0.410	ppbv	100
4) Chloromethane	3.11	50	2998	0.045	ppbv #	65
9) Propene	2.99	41	8766	0.173	ppbv	90
13) Ethanol	3.59	45	37825	2.685	ppbv	86
15) Acetone	3.84	43	100127	0.766	ppbv	94
19) Isopropyl Alcohol	3.98	45	2545	0.030	ppbv #	1
20) Methylene Chloride	4.34	84	19210	0.414	ppbv	94
26) Hexane	5.69	57	7069	0.071	ppbv #	45
34) 2-Butanone	5.26	43	5450	0.037	ppbv #	55
36) Benzene	6.91	78	11551	0.065	ppbv #	79
39) 1,2-Dichloropropane	7.19	63	535577	7.858	ppbv #	25
53) Toluene	9.84	91	54182	0.270	ppbv	95

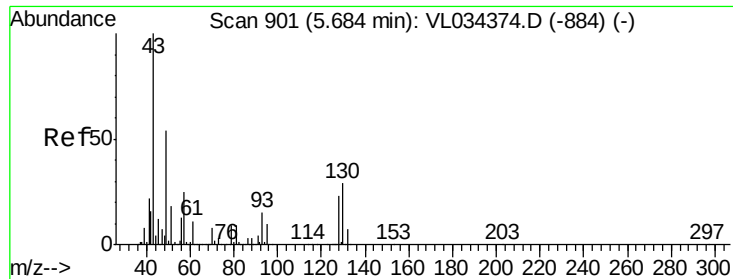
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_L
ClientSampleId :
1A-4DL

Quant Time: Dec 10 07:15:47 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL111919AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Nov 19 14:15:35 2019
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: VL034487.D

Acq: 10 Dec 2019 6:06

Instrument :

MSVOA_L

ClientSampleId :

1A-4DL

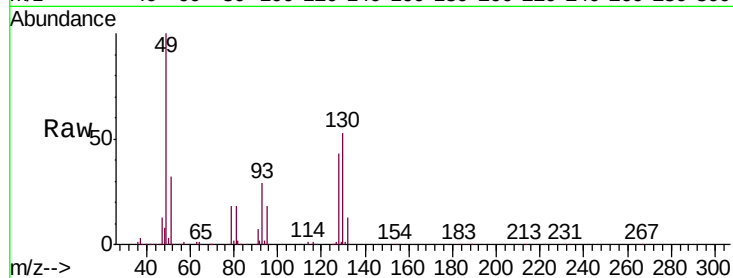
Tgt Ion: 49 Resp: 913070

Ion Ratio Lower Upper

49 100

128 42.2 21.8 65.3

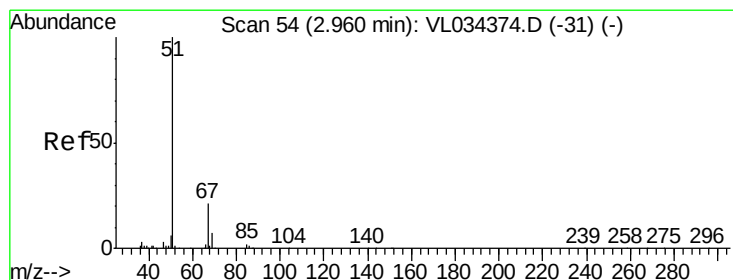
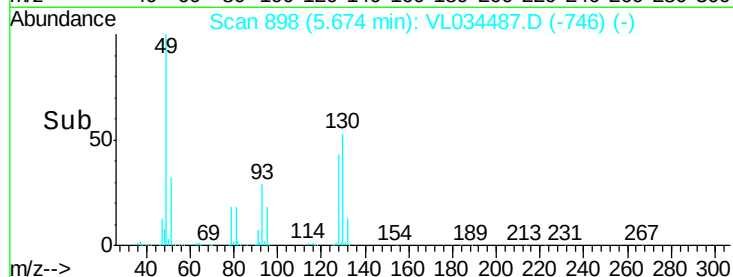
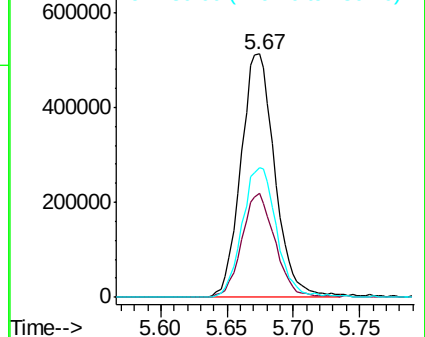
130 54.5 28.0 84.0



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: 0.410 ppbv

RT: 2.96 min Scan# 53

Delta R.T. -0.00 min

Lab File: VL034487.D

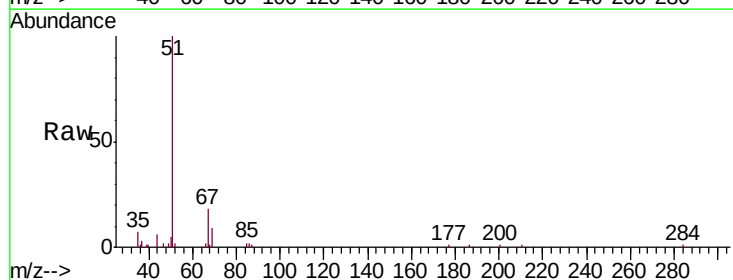
Acq: 10 Dec 2019 6:06

Tgt Ion: 51 Resp: 46677

Ion Ratio Lower Upper

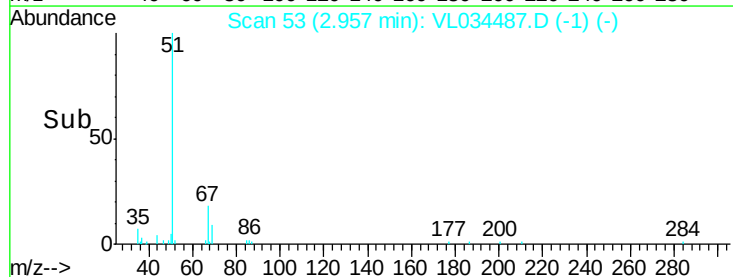
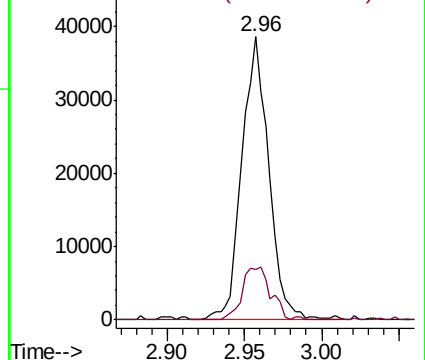
51 100

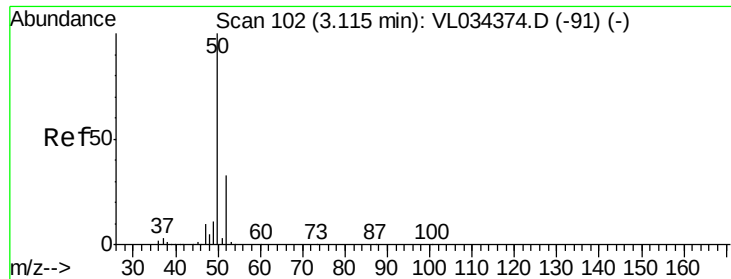
67 20.0 16.2 24.2



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.045 ppbv

RT: 3.11 min Scan# 99

Delta R.T. -0.01 min

Lab File: VL034487.D

Acq: 10 Dec 2019 6:06

Instrument :

MSVOA_L

ClientSampleId :

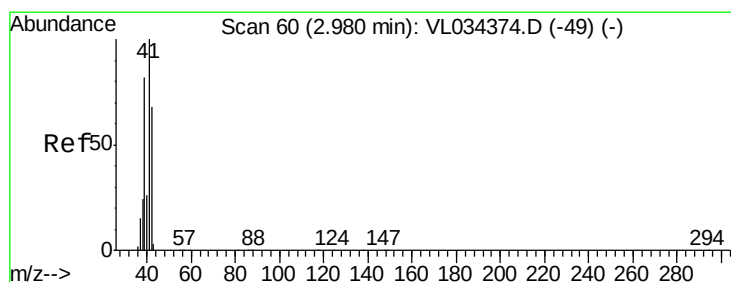
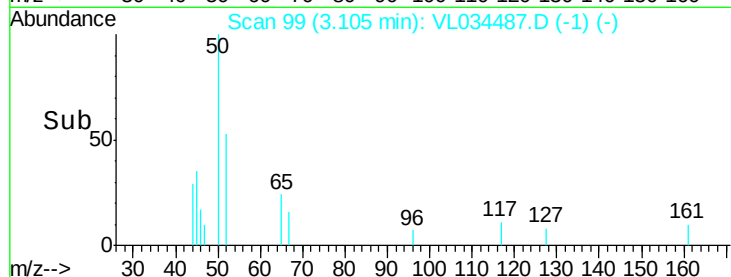
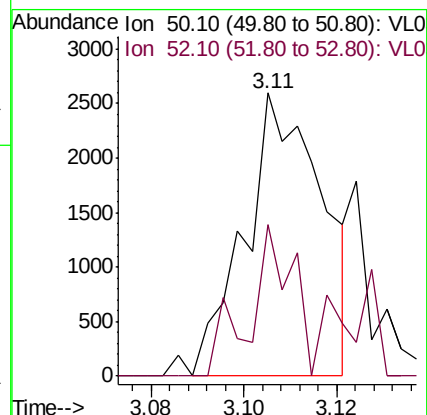
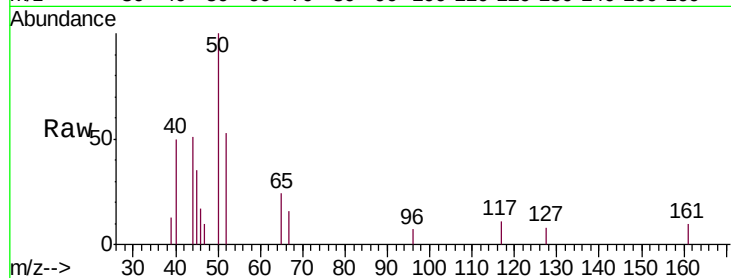
1A-4DL

Tgt Ion: 50 Resp: 2998

Ion Ratio Lower Upper

50 100

52 53.3 26.8 40.2#



#9

Propene

Concen: 0.173 ppbv

RT: 2.99 min Scan# 62

Delta R.T. 0.01 min

Lab File: VL034487.D

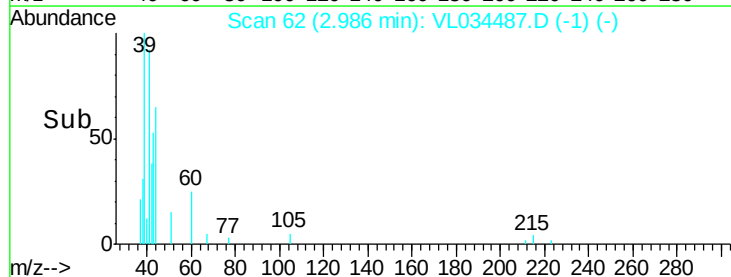
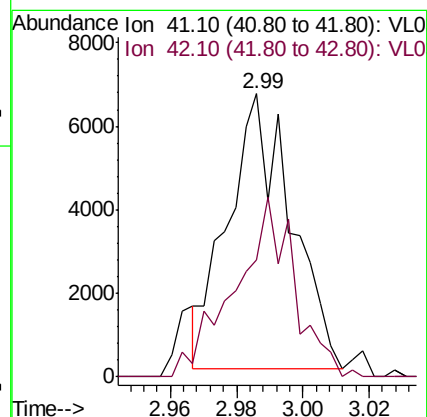
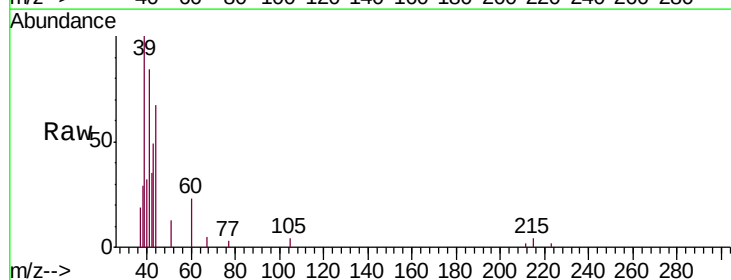
Acq: 10 Dec 2019 6:06

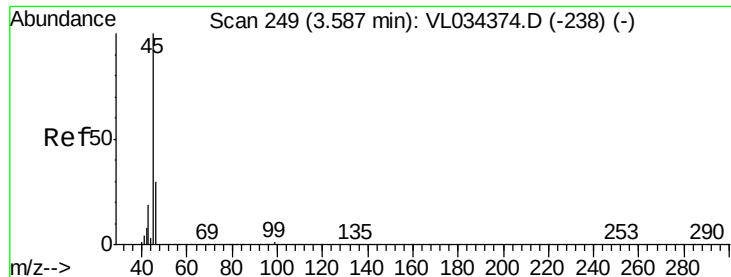
Tgt Ion: 41 Resp: 8766

Ion Ratio Lower Upper

41 100

42 60.5 54.6 82.0

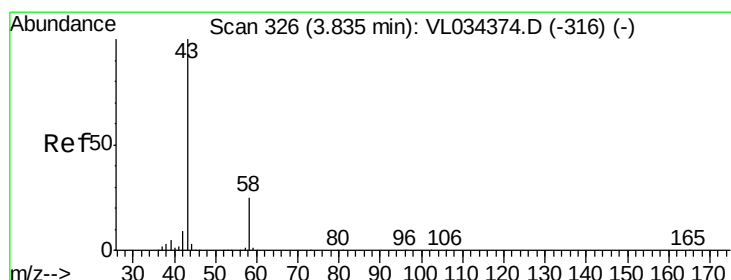
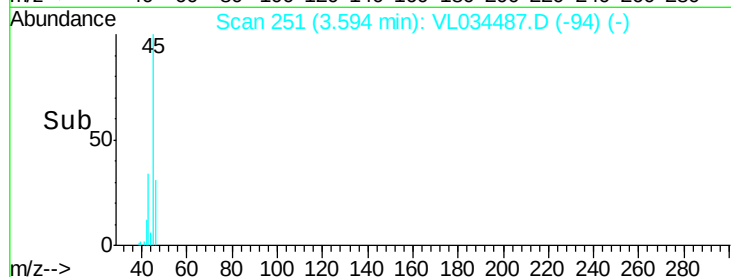
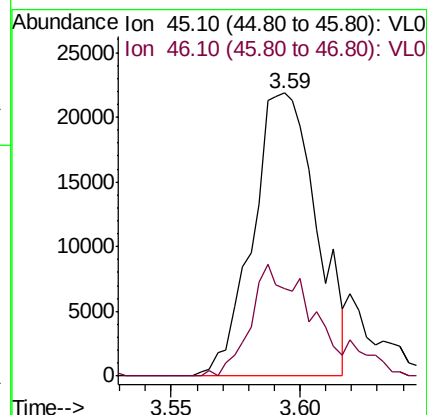
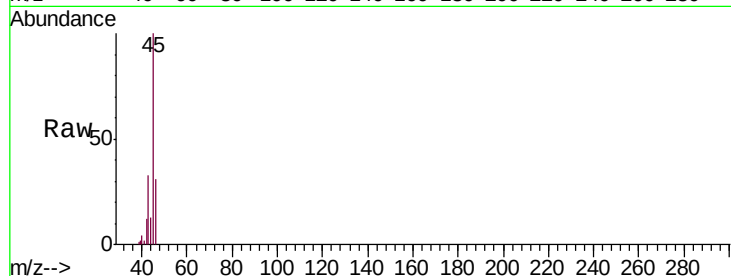




#13
Ethanol
Concen: 2.685 ppbv
RT: 3.59 min Scan# 251
Delta R.T. 0.01 min
Lab File: VL034487.D
Acq: 10 Dec 2019 6:06

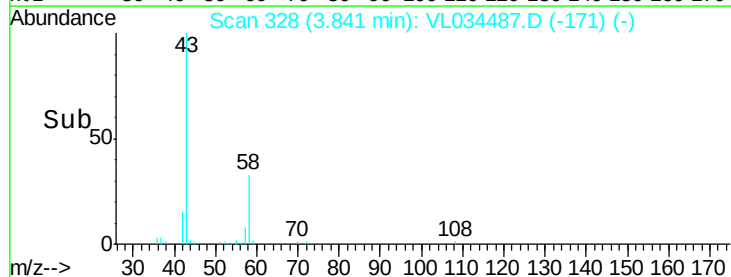
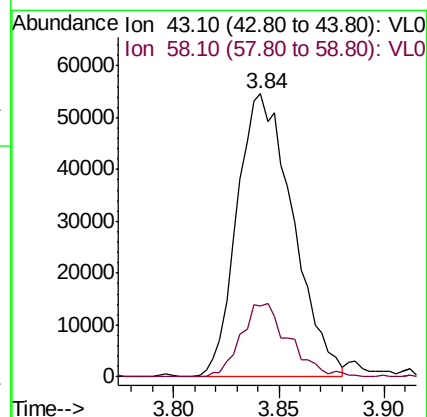
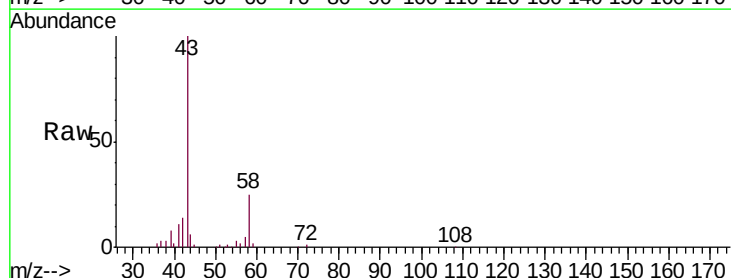
Instrument :
MSVOA_L
ClientSampleId :
1A-4DL

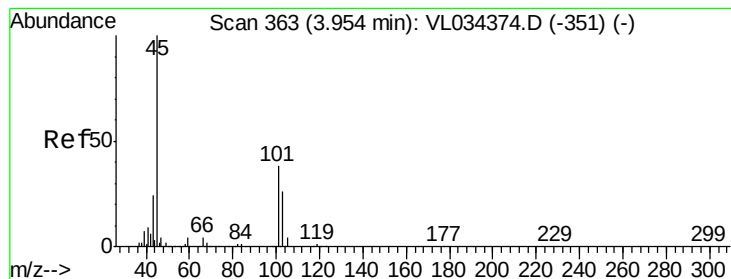
Tgt Ion: 45 Resp: 37825
Ion Ratio Lower Upper
45 100
46 42.5 13.8 55.4



#15
Acetone
Concen: 0.766 ppbv
RT: 3.84 min Scan# 328
Delta R.T. 0.01 min
Lab File: VL034487.D
Acq: 10 Dec 2019 6:06

Tgt Ion: 43 Resp: 100127
Ion Ratio Lower Upper
43 100
58 22.4 20.2 30.4





#19

Isopropyl Alcohol

Concen: 0.030 ppbv

RT: 3.98 min Scan# 370

Delta R.T. 0.02 min

Lab File: VL034487.D

Acq: 10 Dec 2019 6:06

Instrument :

MSVOA_L

ClientSampleId :

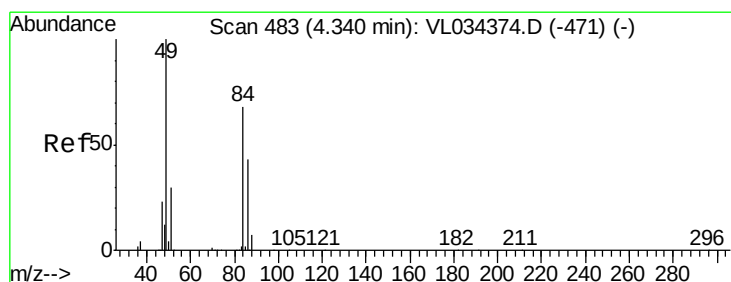
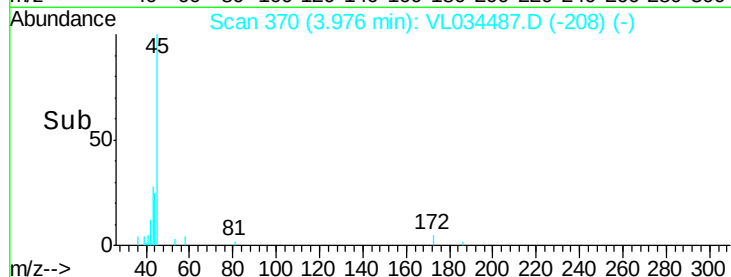
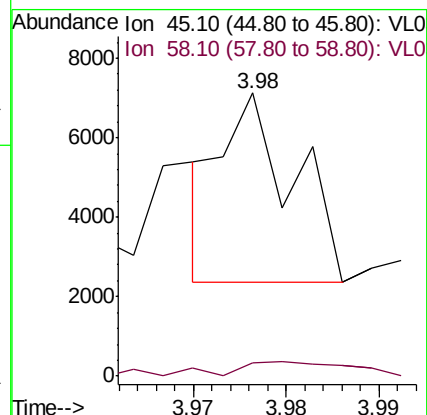
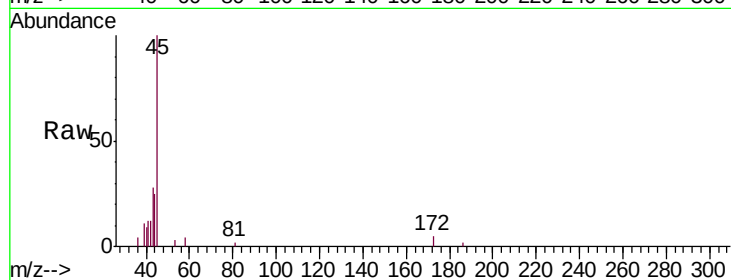
1A-4DL

Tgt Ion: 45 Resp: 2545

Ion Ratio Lower Upper

45 100

58 877.1 1.3 1.9#



#20

Methylene Chloride

Concen: 0.414 ppbv

RT: 4.34 min Scan# 482

Delta R.T. -0.00 min

Lab File: VL034487.D

Acq: 10 Dec 2019 6:06

Tgt Ion: 84 Resp: 19210

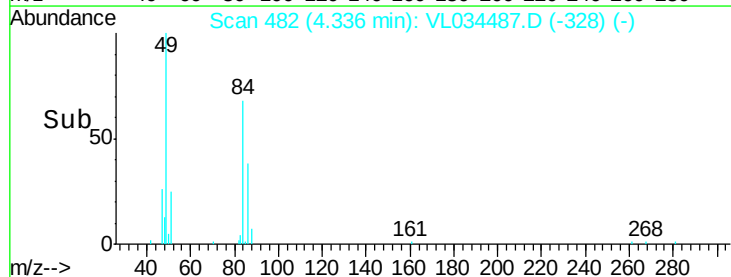
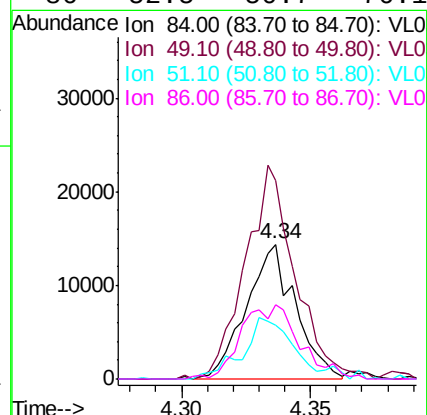
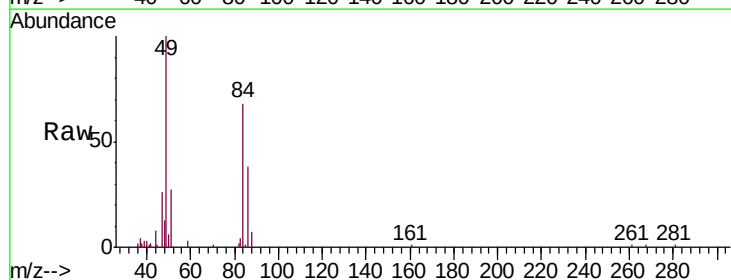
Ion Ratio Lower Upper

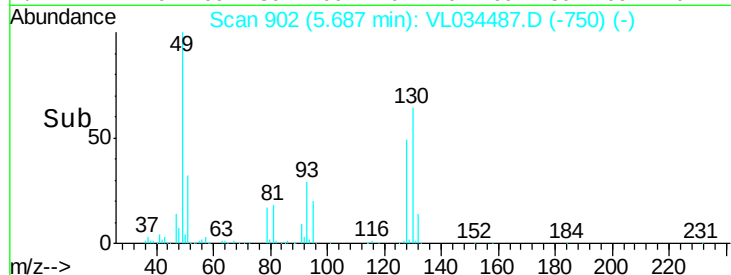
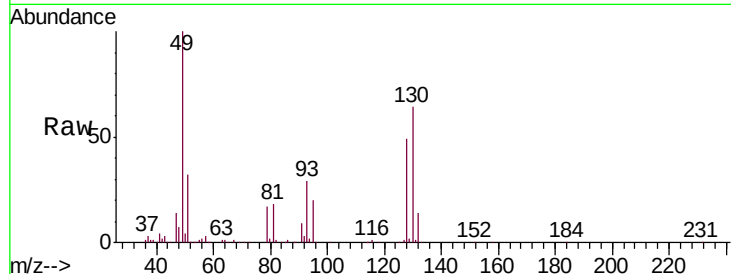
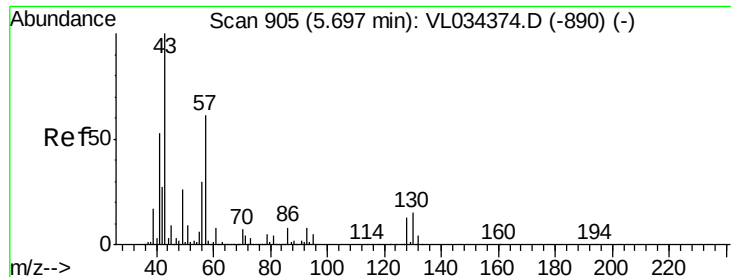
84 100

49 144.4 116.8 175.2

51 39.6 35.6 53.4

86 52.5 50.7 76.1





#26

Hexane

Concen: 0.071 ppbv

RT: 5.69 min Scan# 902

Delta R.T. -0.01 min

Lab File: VL034487.D

Acq: 10 Dec 2019 6:06

Instrument :

MSVOA_L

ClientSampleId :

1A-4DL

Tgt Ion: 57 Resp: 7069

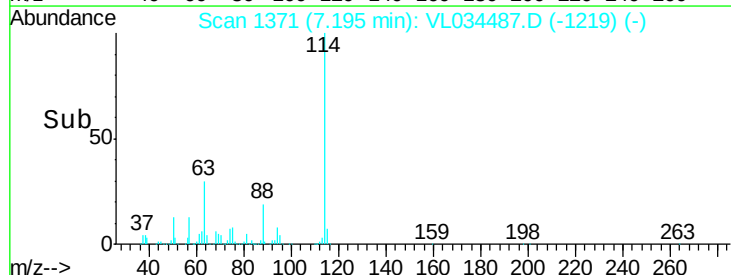
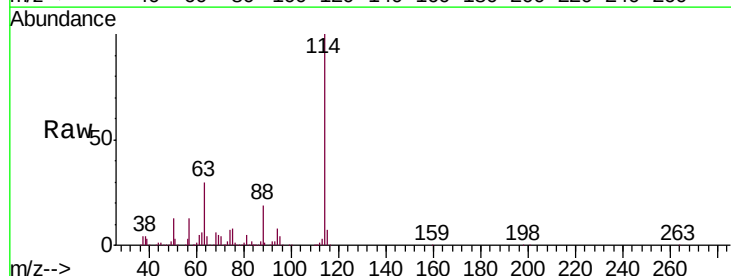
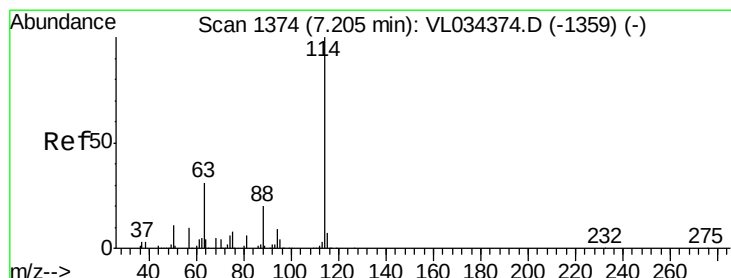
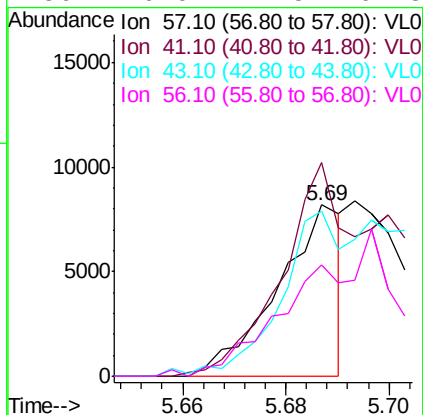
Ion Ratio Lower Upper

57 100

41 223.9 75.0 112.4#

43 203.2 186.6 279.8

56 0.0 41.5 62.3#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.19 min Scan# 1371

Delta R.T. -0.01 min

Lab File: VL034487.D

Acq: 10 Dec 2019 6:06

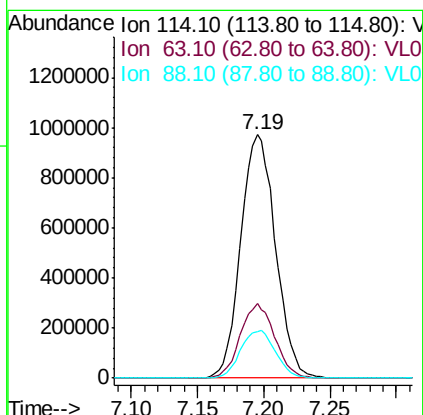
Tgt Ion: 114 Resp: 1769716

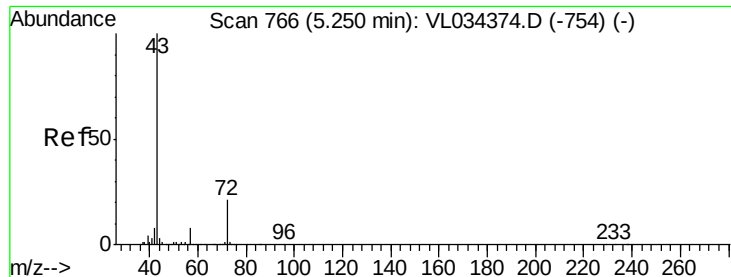
Ion Ratio Lower Upper

114 100

63 30.3 24.2 36.4

88 19.7 15.9 23.9

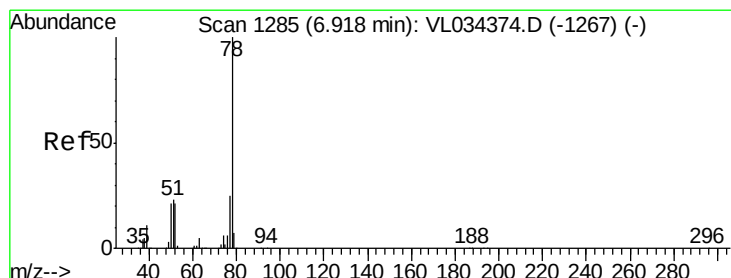
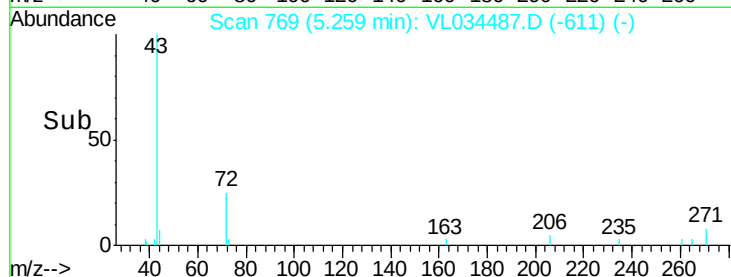
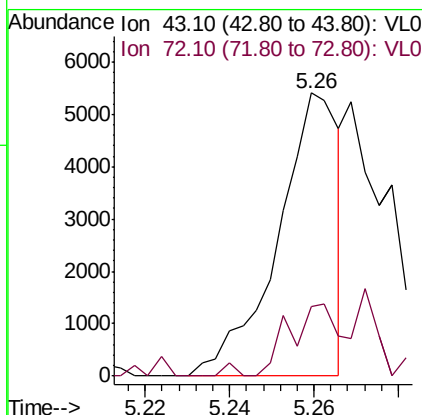
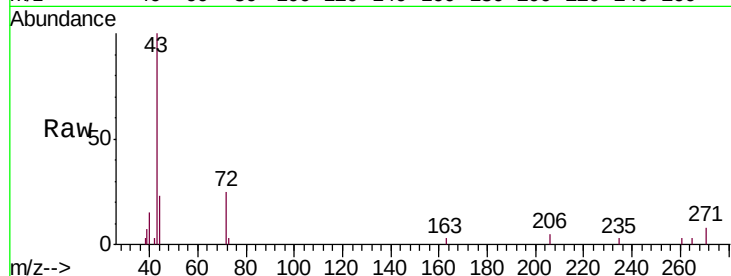




#34
 2-Butanone
 Concen: 0.037 ppbv
 RT: 5.26 min Scan# 769
 Delta R.T. 0.01 min
 Lab File: VL034487.D
 Acq: 10 Dec 2019 6:06

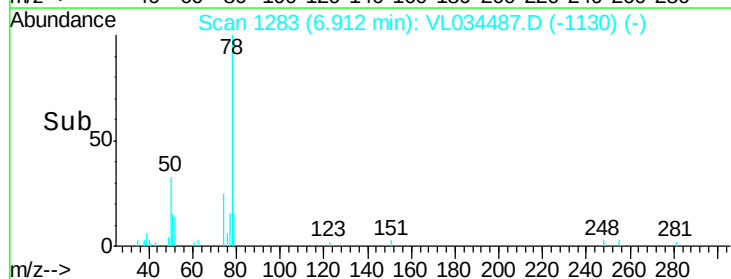
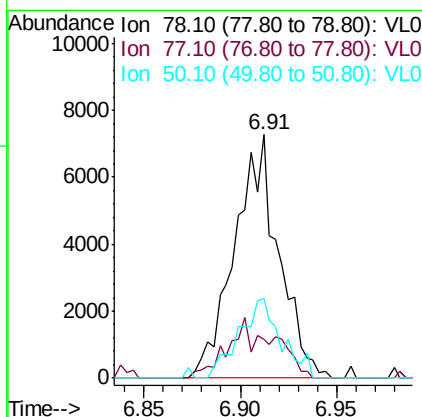
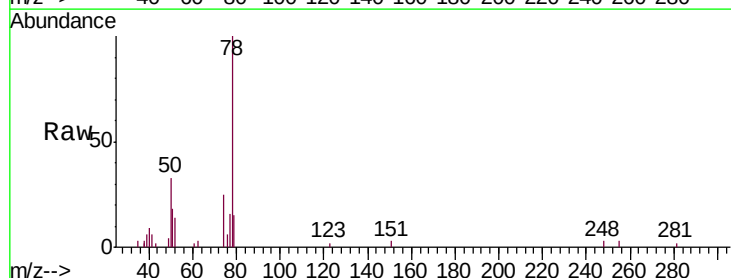
Instrument :
 MSVOA_L
 ClientSampleId :
 1A-4DL

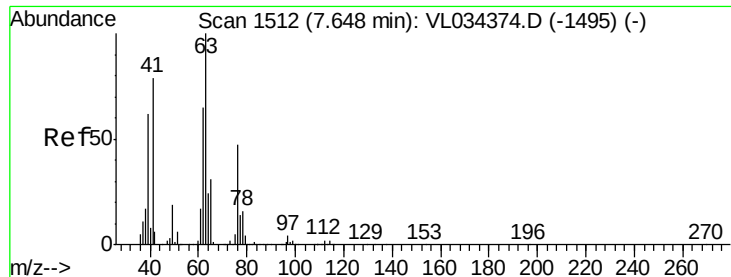
Tgt Ion: 43 Resp: 5450
 Ion Ratio Lower Upper
 43 100
 72 0.0 17.0 25.6#



#36
 Benzene
 Concen: 0.065 ppbv
 RT: 6.91 min Scan# 1283
 Delta R.T. -0.01 min
 Lab File: VL034487.D
 Acq: 10 Dec 2019 6:06

Tgt Ion: 78 Resp: 11551
 Ion Ratio Lower Upper
 78 100
 77 16.1 20.2 30.4#
 50 32.6 17.1 25.7#

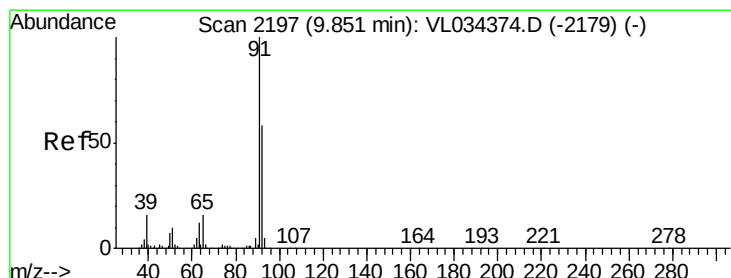
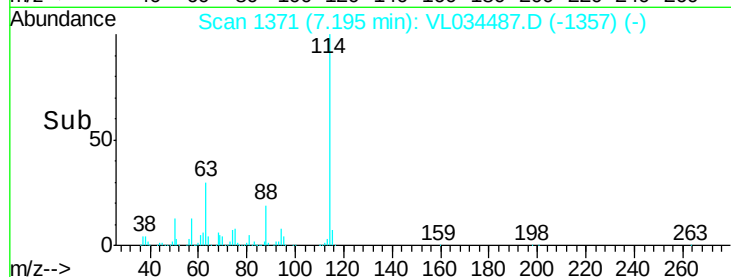
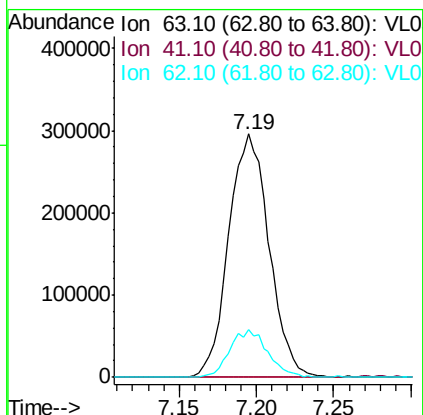
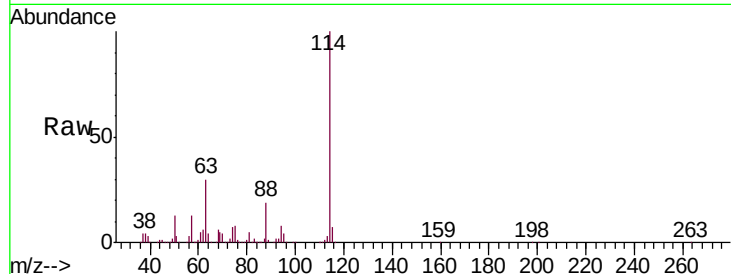




#39
 1,2-Dichloropropane
 Concen: 7.858 ppbv
 RT: 7.19 min Scan# 1371
 Delta R.T. -0.45 min
 Lab File: VL034487.D
 Acq: 10 Dec 2019 6:06

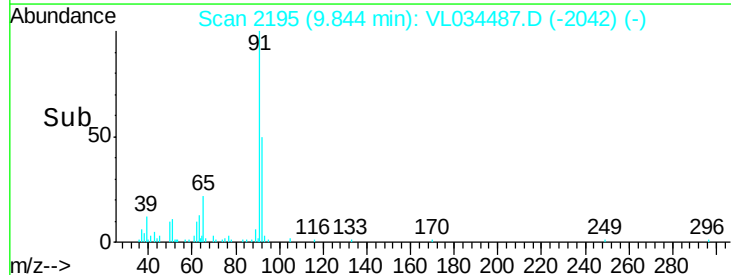
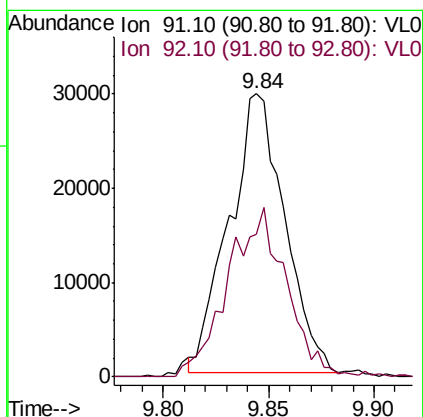
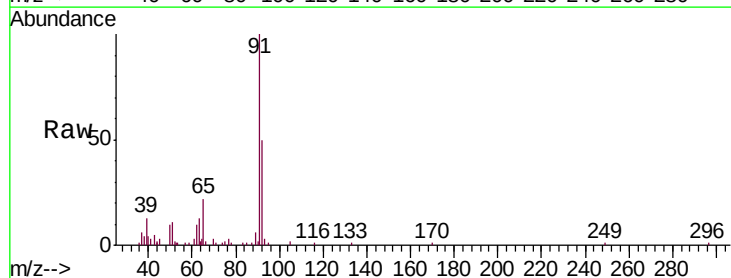
Instrument :
 MSVOA_L
 ClientSampleId :
 1A-4DL

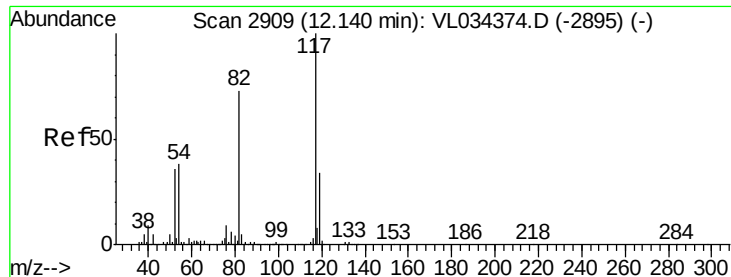
Tgt Ion: 63 Resp: 535577
 Ion Ratio Lower Upper
 63 100
 41 0.0 63.1 94.7#
 62 19.7 52.3 78.5#



#53
 Toluene
 Concen: 0.270 ppbv
 RT: 9.84 min Scan# 2195
 Delta R.T. -0.01 min
 Lab File: VL034487.D
 Acq: 10 Dec 2019 6:06

Tgt Ion: 91 Resp: 54182
 Ion Ratio Lower Upper
 91 100
 92 64.0 47.9 71.9

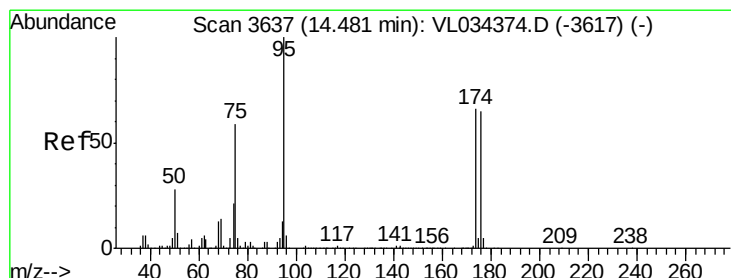
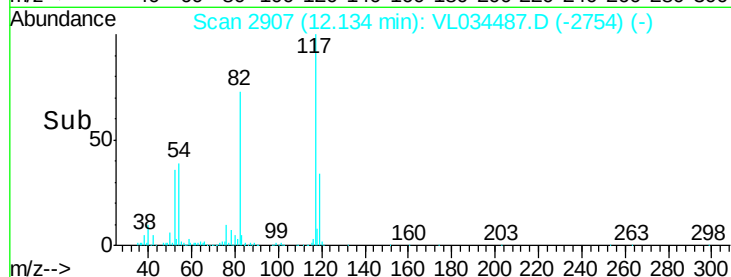
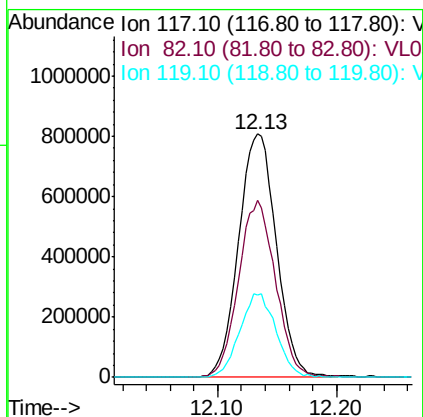
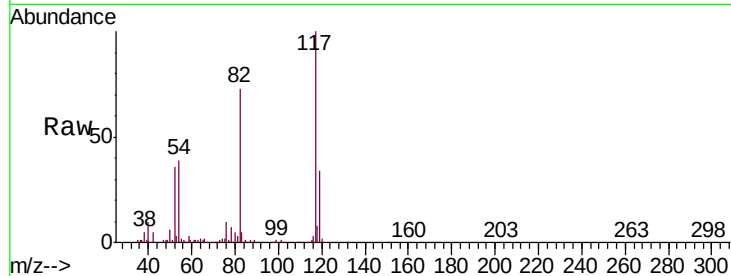




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.13 min Scan# 2907
Delta R.T. -0.01 min
Lab File: VL034487.D
Acq: 10 Dec 2019 6:06

Instrument :
MSVOA_L
ClientSampleId :
1A-4DL

Tgt Ion: 117 Resp: 1776614
Ion Ratio Lower Upper
117 100
82 71.2 57.5 86.3
119 33.3 25.4 38.2



#68
1-Bromo-4-Fluorobenzene
Concen: 10.188 ppbv
RT: 14.47 min Scan# 3634
Delta R.T. -0.01 min
Lab File: VL034487.D
Acq: 10 Dec 2019 6:06

Tgt Ion: 95 Resp: 1522796
Ion Ratio Lower Upper
95 100
174 64.9 52.2 78.2
175 4.5 3.8 5.8

