

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL112519\
 Data File : VL034418.D
 Acq On : 25 Nov 2019 22:56
 Operator : SY/AP
 Sample : K5971-06DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Nov 26 00:46:03 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	841246	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	1681752	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.13	117	1646269	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.47	95	1397850	10.09	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.90%

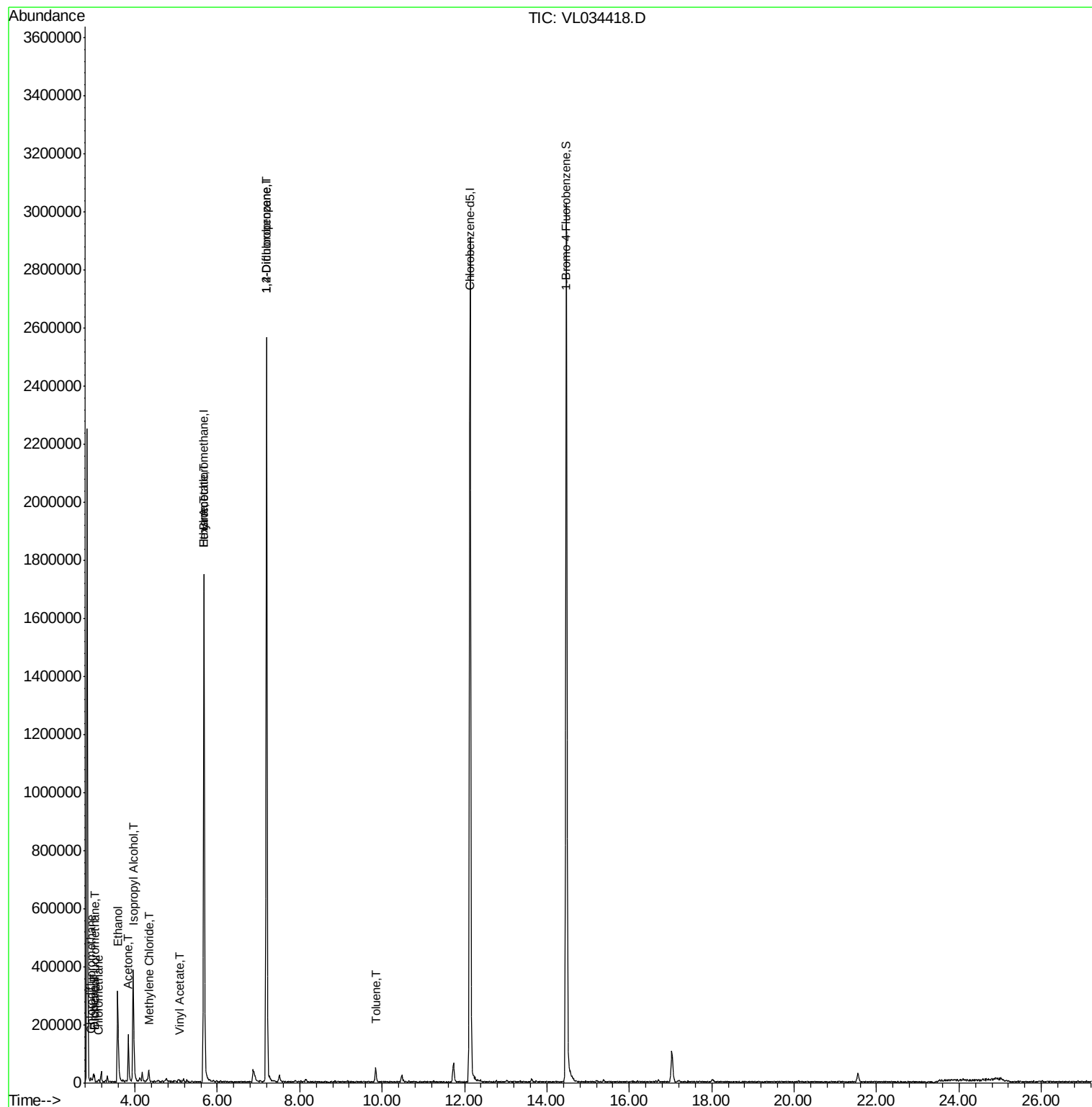
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	11427	0.075	ppbv #	86
3) Chlorodifluoromethane	2.93	51	8464	0.081	ppbv #	75
4) Chloromethane	3.11	50	2450	0.040	ppbv #	81
9) Propene	2.99	41	6236	0.134	ppbv	97
13) Ethanol	3.58	45	317584	24.466	ppbv	94
15) Acetone	3.84	43	148310	1.231	ppbv	97
19) Isopropyl Alcohol	3.95	45	429289	5.560	ppbv #	98
20) Methylene Chloride	4.33	84	11690	0.274	ppbv #	79
23) Vinyl Acetate	5.07	43	5597	0.036	ppbv #	76
25) Ethyl Acetate	5.69	43	9904	0.046	ppbv #	81
26) Hexane	5.69	57	6522	0.071	ppbv #	58
39) 1,2-Dichloropropane	7.19	63	496690	7.669	ppbv #	24
53) Toluene	9.84	91	17299	0.091	ppbv #	34

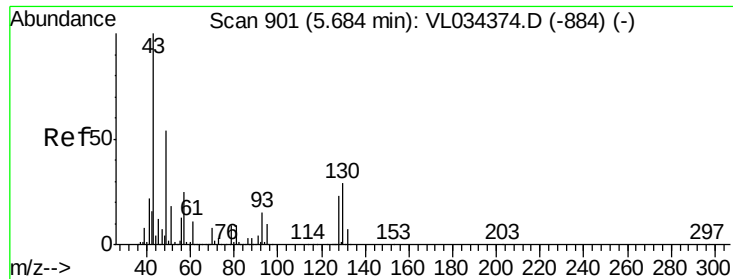
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VL034418.D

Acq: 25 Nov 2019 22:56

Instrument :
MSVOA_L
ClientSampleId :

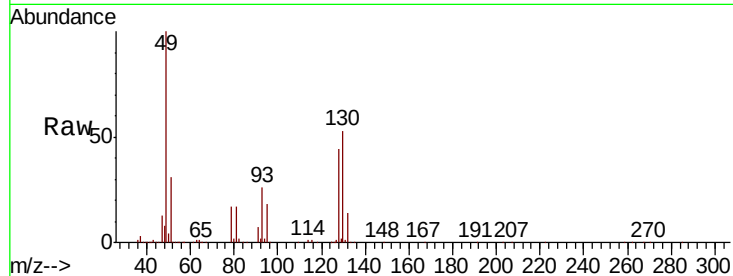
Tot Ion: 49 Resp: 841246

Ion Ratio Lower Upper

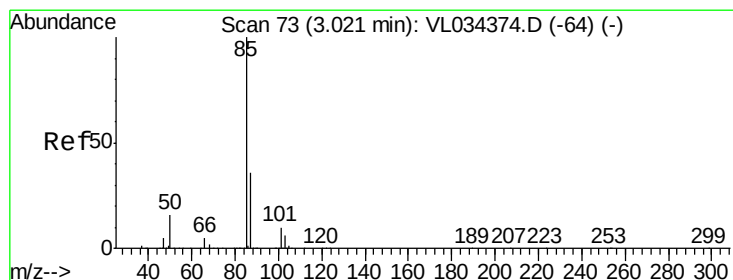
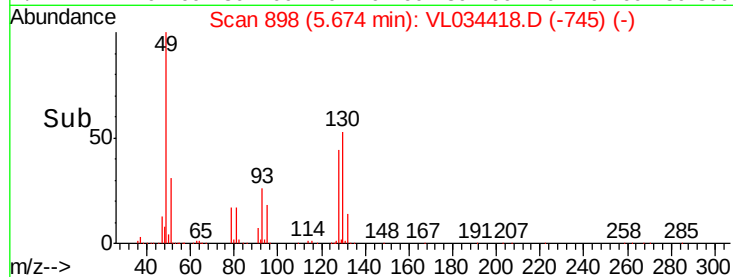
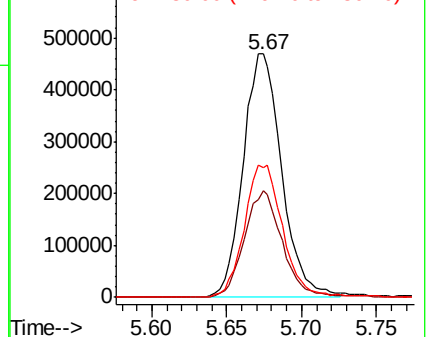
49 100

128 43.4 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: 0.075 ppbv

RT: 3.02 min Scan# 71

Delta R.T. -0.01 min

Lab File: VL034418.D

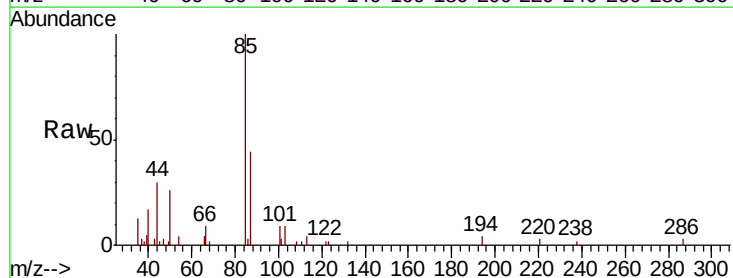
Acq: 25 Nov 2019 22:56

Tgt Ion: 85 Resp: 11427

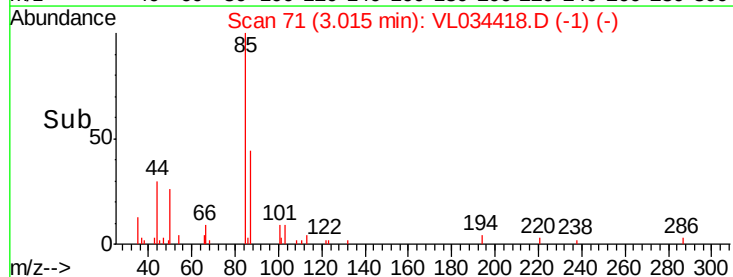
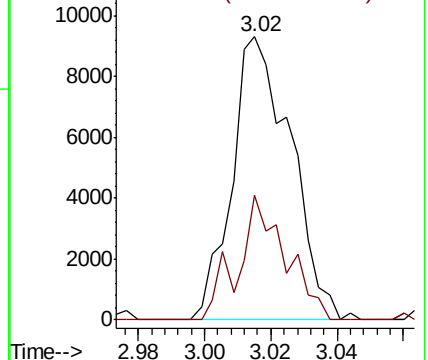
Ion Ratio Lower Upper

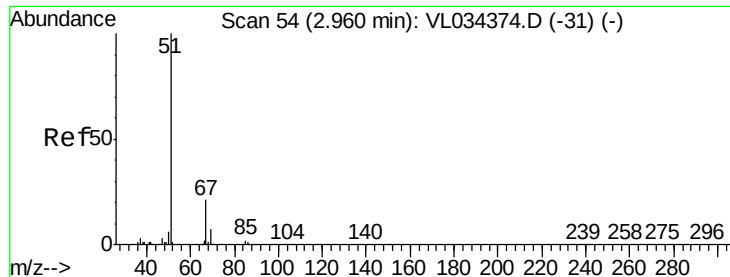
85 100

87 44.1 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: 0.081 ppbv

RT: 2.93 min Scan# 45

Delta R.T. -0.03 min

Lab File: VL034418.D

Acq: 25 Nov 2019 22:56

Instrument :

MSVOA_L

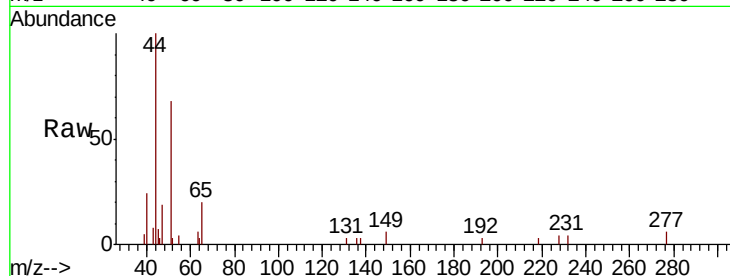
ClientSampleId :

Tot Ion: 51 Resp: 8464

Ion Ratio Lower Upper

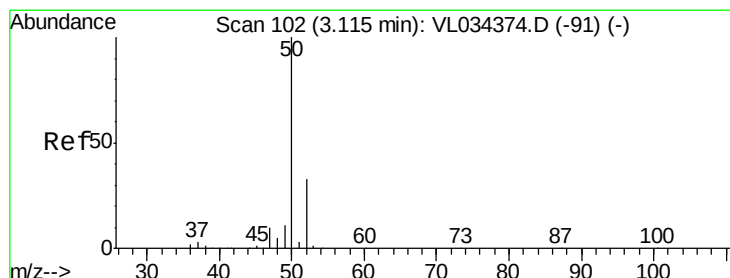
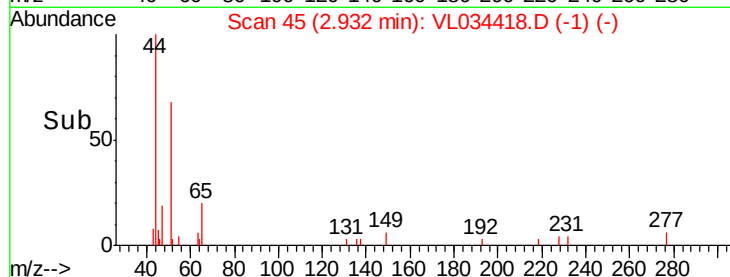
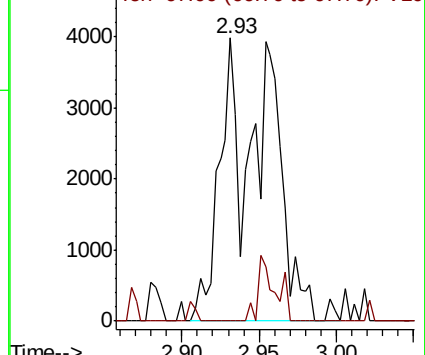
51 100

67 8.5 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: 0.040 ppbv

RT: 3.11 min Scan# 101

Delta R.T. -0.00 min

Lab File: VL034418.D

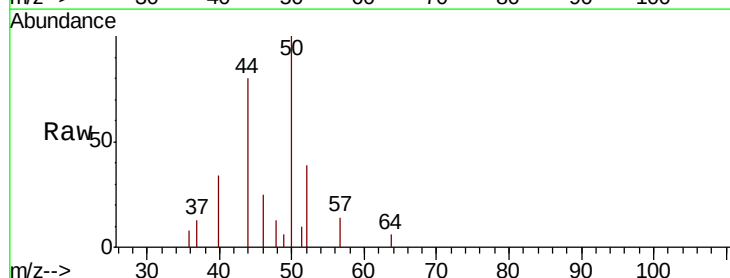
Acq: 25 Nov 2019 22:56

Tgt Ion: 50 Resp: 2450

Ion Ratio Lower Upper

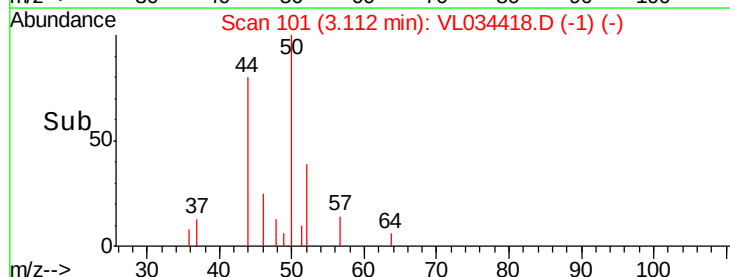
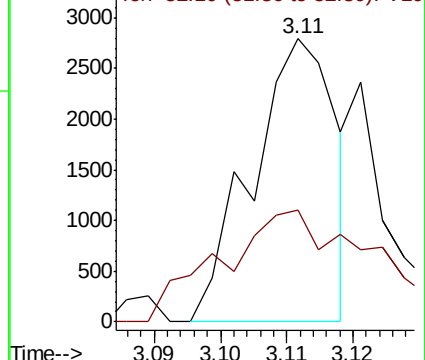
50 100

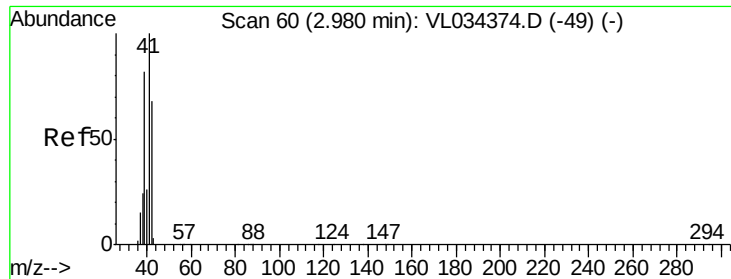
52 22.9 26.8 40.2#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.134 ppbv

RT: 2.99 min Scan# 63

Delta R.T. 0.01 min

Lab File: VL034418.D

Acq: 25 Nov 2019 22:56

Instrument :

MSVOA_L

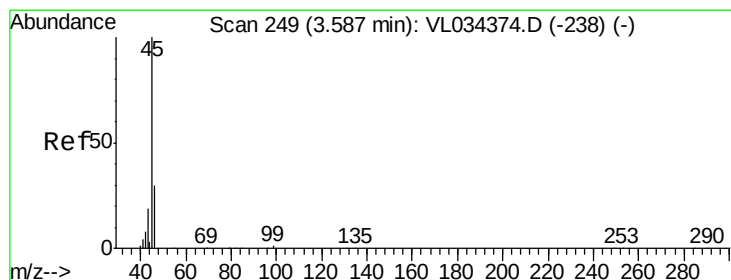
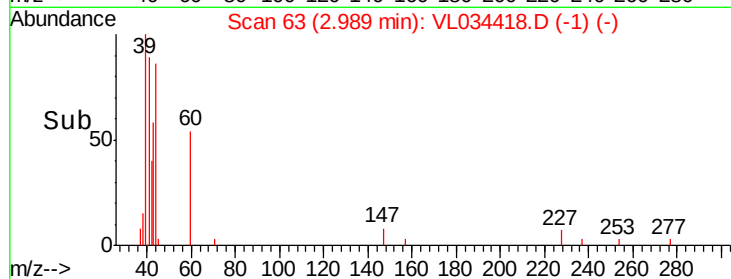
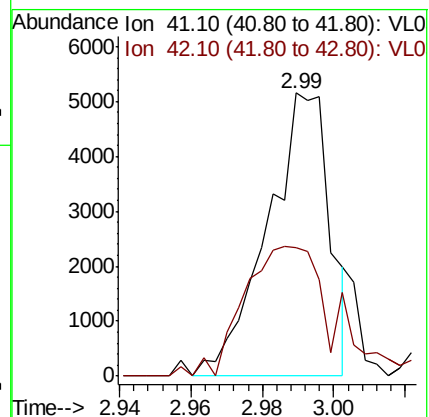
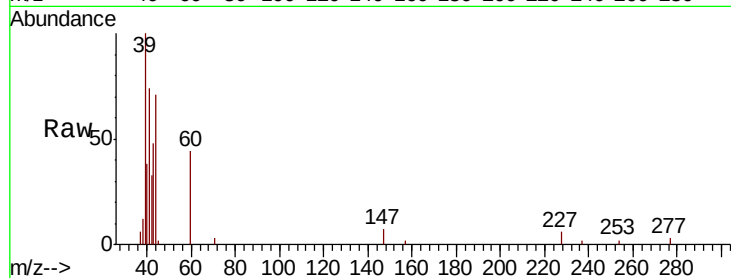
ClientSampled :

Tot Ion: 41 Resp: 6236

Ion Ratio Lower Upper

41 100

42 66.2 54.6 82.0



#13

Ethanol

Concen: 24.466 ppbv

RT: 3.58 min Scan# 247

Delta R.T. -0.01 min

Lab File: VL034418.D

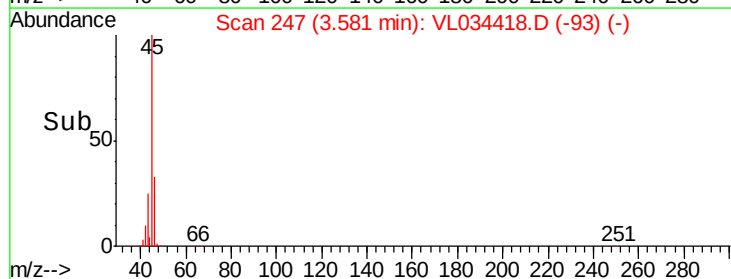
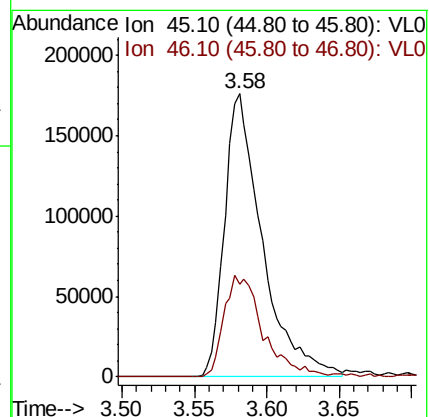
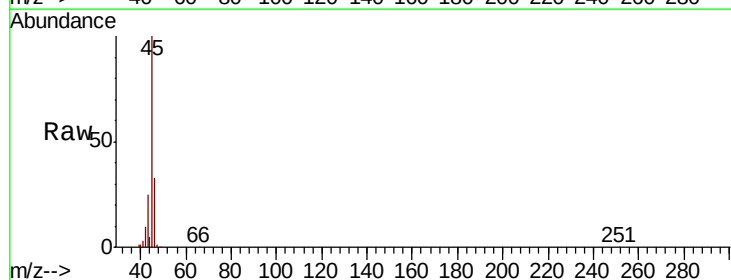
Acq: 25 Nov 2019 22:56

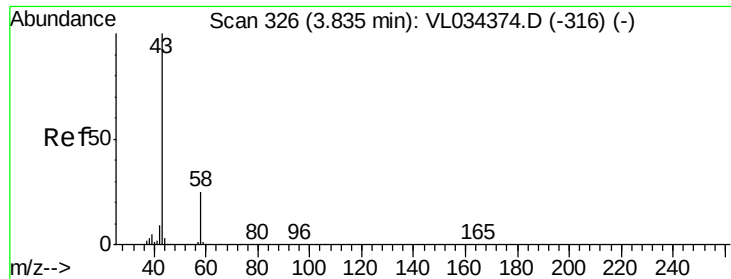
Tgt Ion: 45 Resp: 317584

Ion Ratio Lower Upper

45 100

46 37.8 13.8 55.4





#15

Acetone

Concen: 1.231 ppbv

RT: 3.84 min Scan# 327

Delta R.T. 0.00 min

Lab File: VL034418.D

Acq: 25 Nov 2019 22:56

Instrument :

MSVOA_L

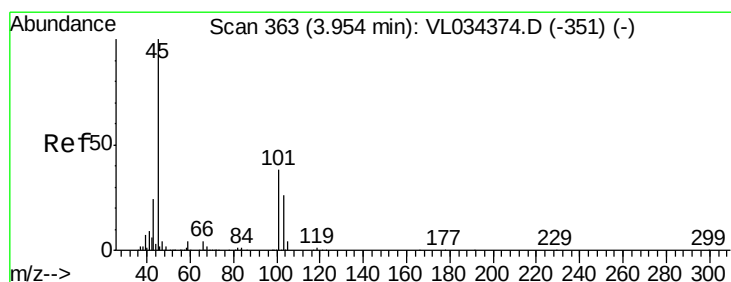
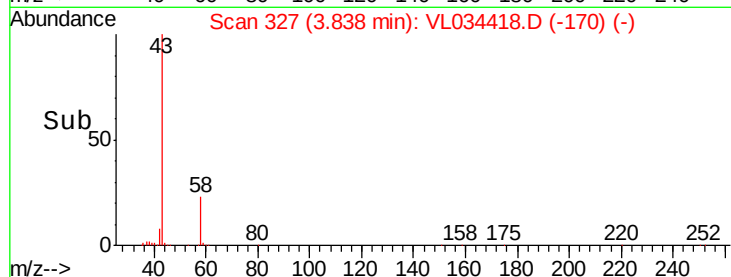
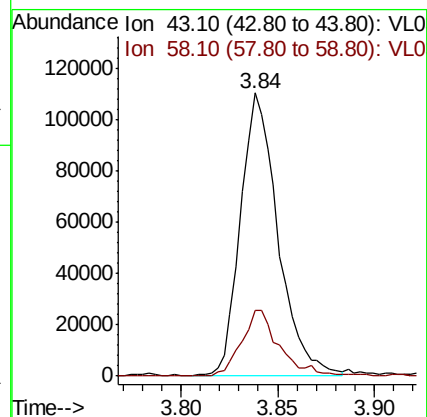
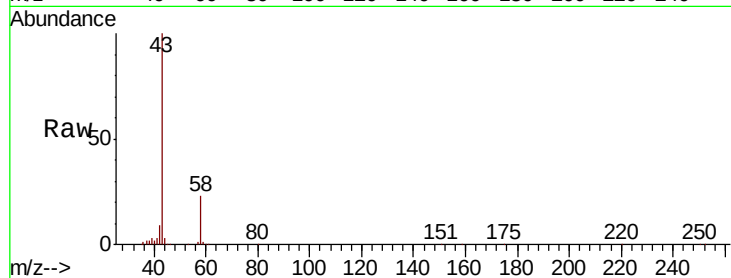
ClientSampleId :

Tot Ion: 43 Resp: 148310

Ion Ratio Lower Upper

43 100

58 23.8 20.2 30.4



#19

Isopropyl Alcohol

Concen: 5.560 ppbv

RT: 3.95 min Scan# 363

Delta R.T. 0.00 min

Lab File: VL034418.D

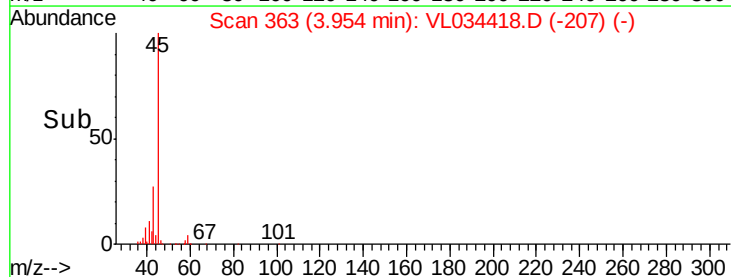
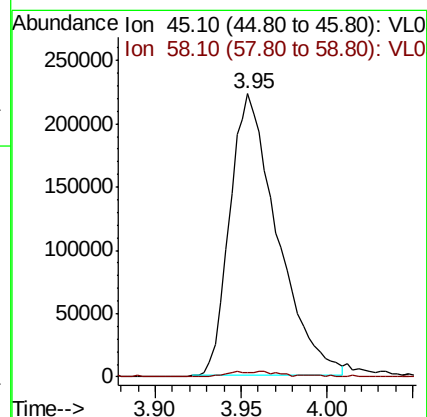
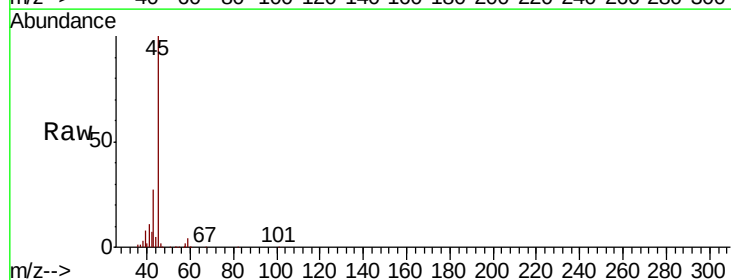
Acq: 25 Nov 2019 22:56

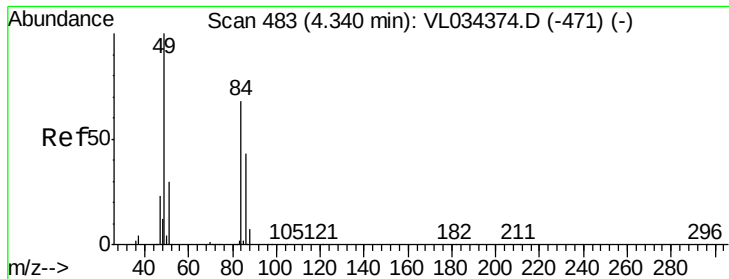
Tgt Ion: 45 Resp: 429289

Ion Ratio Lower Upper

45 100

58 2.5 1.3 1.9#





#20

Methylene Chloride

Concen: 0.274 ppbv

RT: 4.33 min Scan# 481

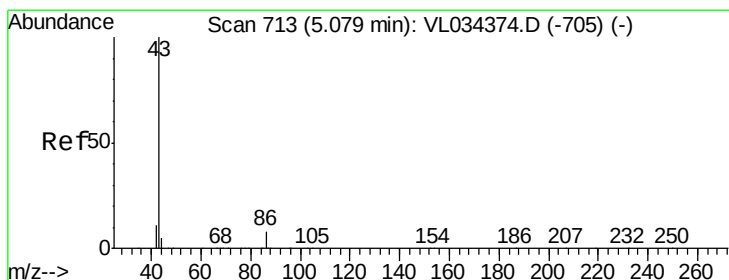
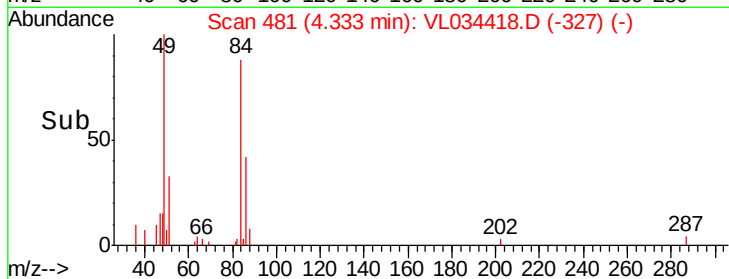
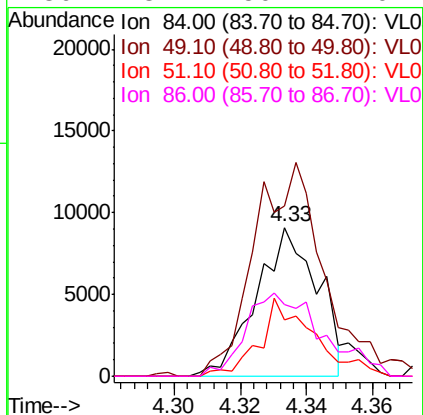
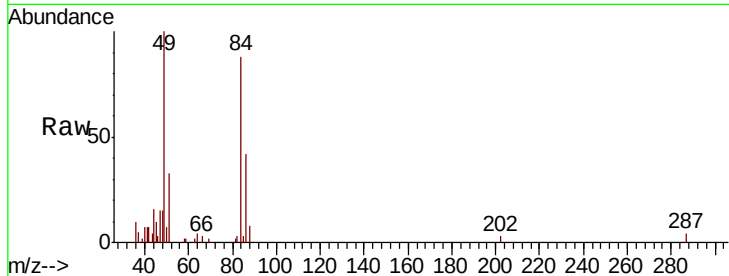
Delta R.T. -0.01 min

Lab File: VL034418.D

Acq: 25 Nov 2019 22:56

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:	84	Resp:	11690
Ion	Ratio	Lower	Upper
84	100		
49	114.0	116.8	175.2#
51	38.1	35.6	53.4
86	48.2	50.7	76.1#



#23

Vinyl Acetate

Concen: 0.036 ppbv

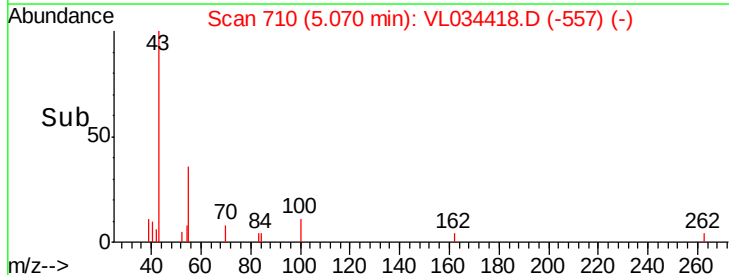
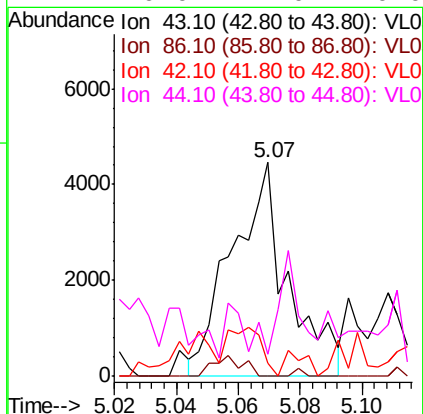
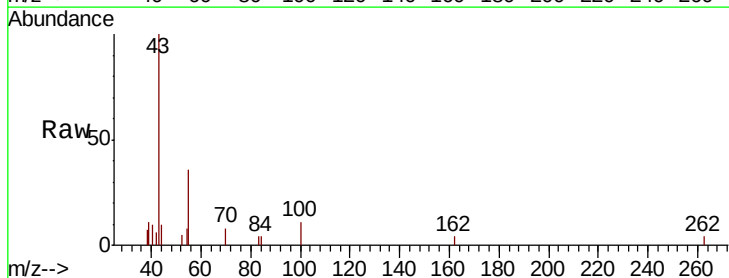
RT: 5.07 min Scan# 710

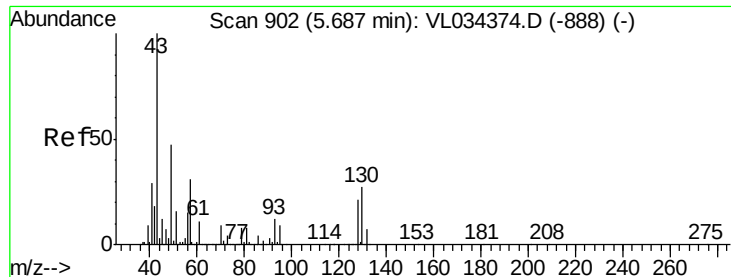
Delta R.T. -0.01 min

Lab File: VL034418.D

Acq: 25 Nov 2019 22:56

Tgt Ion:	43	Resp:	5597
Ion	Ratio	Lower	Upper
43	100		
86	0.0	5.8	8.6#
42	0.0	8.9	13.3#
44	0.0	4.0	6.0#





#25

Ethyl Acetate

Concen: 0.046 ppbv

RT: 5.69 min Scan# 902

Delta R.T. 0.00 min

Lab File: VL034418.D

Acq: 25 Nov 2019 22:56

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 9904

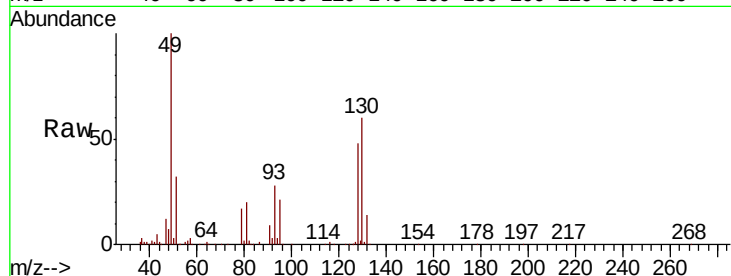
Ion Ratio Lower Upper

43 100

45 15.1 8.2 12.4#

61 0.0 7.5 11.3#

70 0.0 5.7 8.5#



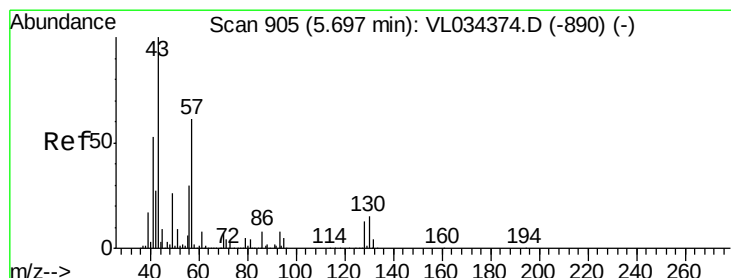
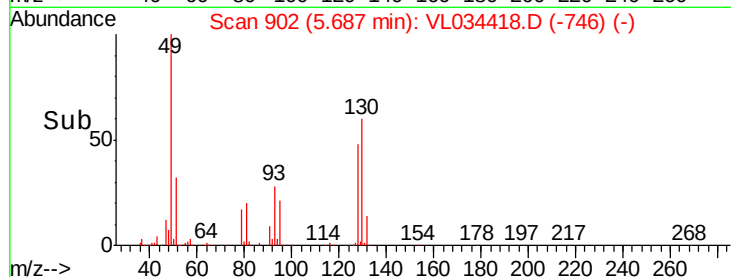
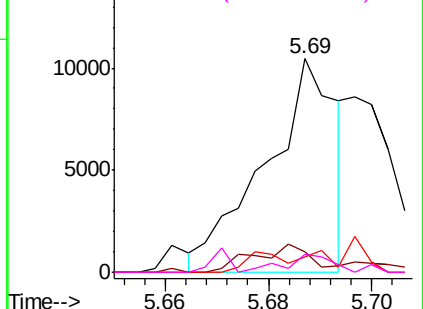
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 0.071 ppbv

RT: 5.69 min Scan# 902

Delta R.T. -0.01 min

Lab File: VL034418.D

Acq: 25 Nov 2019 22:56

Tgt Ion: 57 Resp: 6522

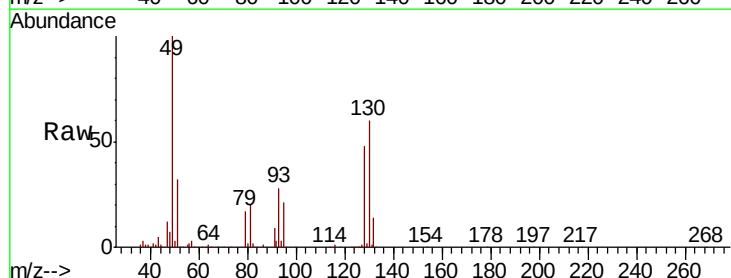
Ion Ratio Lower Upper

57 100

41 179.4 75.0 112.4#

43 260.8 186.6 279.8

56 100.6 41.5 62.3#



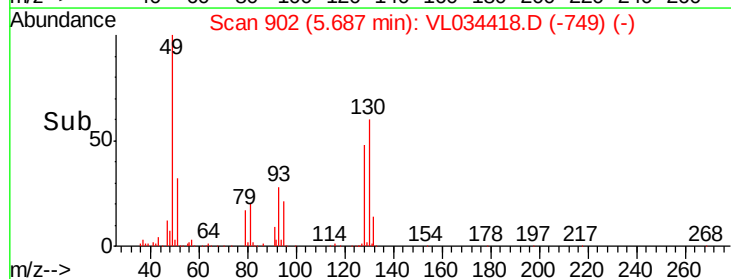
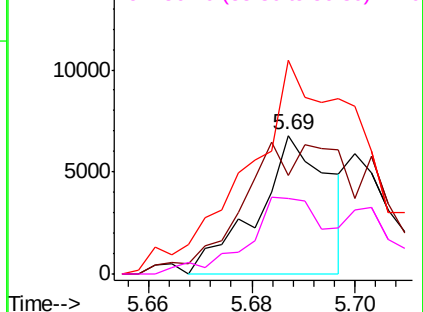
Abundance

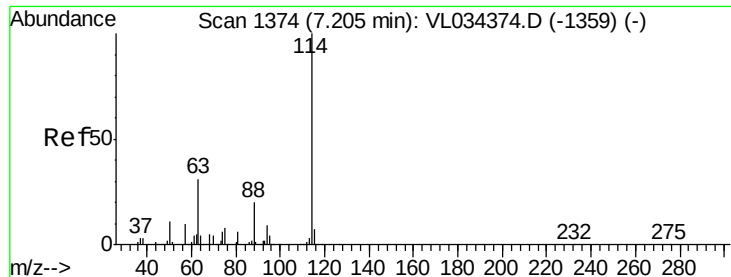
Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0

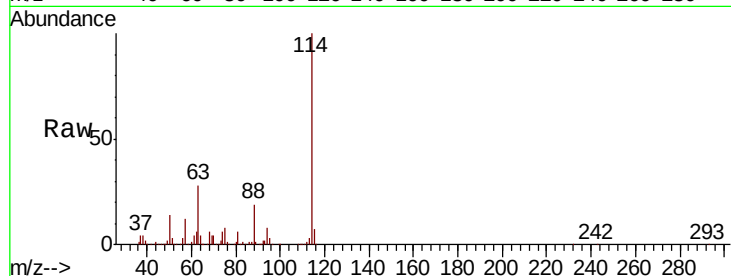




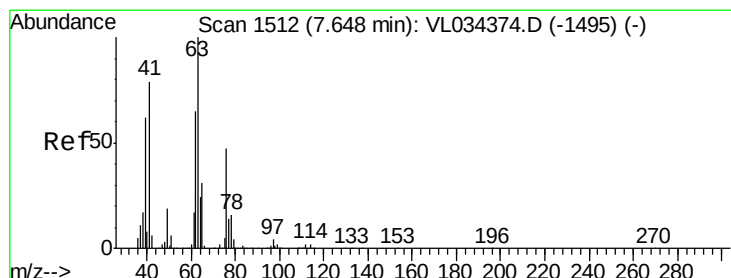
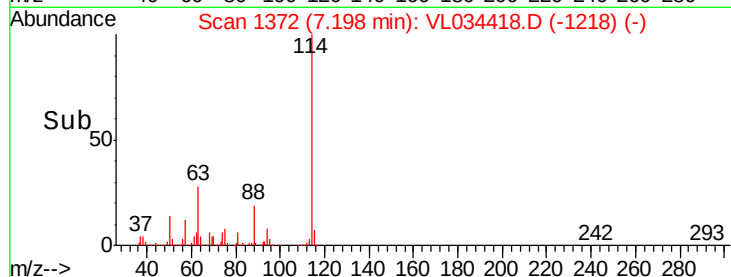
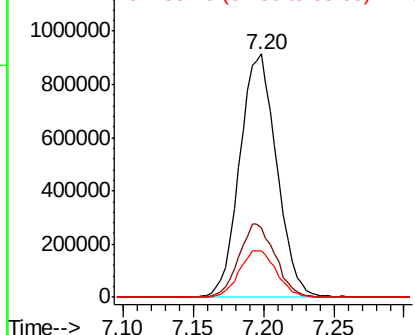
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.20 min Scan# 1372
 Delta R.T. -0.01 min
 Lab File: VL034418.D
 Acq: 25 Nov 2019 22:56

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:114 Resp: 1681752
 Ion Ratio Lower Upper
 114 100
 63 29.7 24.2 36.4
 88 19.4 15.9 23.9

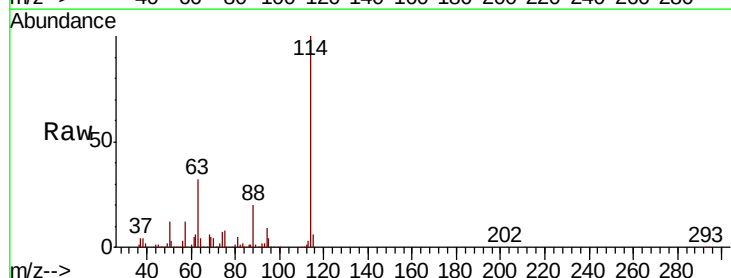


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

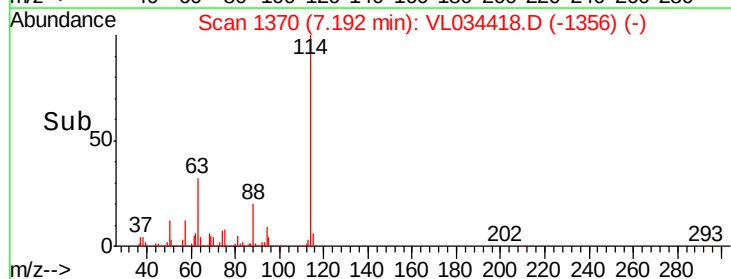
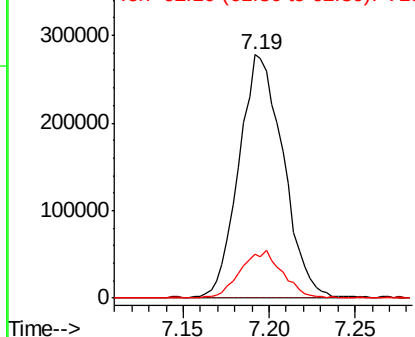


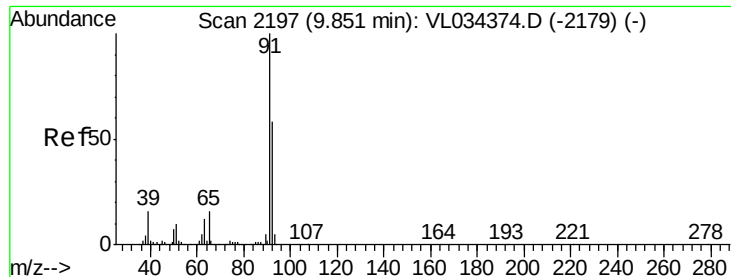
#39
 1,2-Dichloropropane
 Concen: 7.669 ppbv
 RT: 7.19 min Scan# 1370
 Delta R.T. -0.46 min
 Lab File: VL034418.D
 Acq: 25 Nov 2019 22:56

Tgt Ion: 63 Resp: 496690
 Ion Ratio Lower Upper
 63 100
 41 0.0 63.1 94.7#
 62 18.1 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: 0.091 ppbv

RT: 9.84 min Scan# 2195

Delta R.T. -0.01 min

Lab File: VL034418.D

Acq: 25 Nov 2019 22:56

Instrument :

MSVOA_L

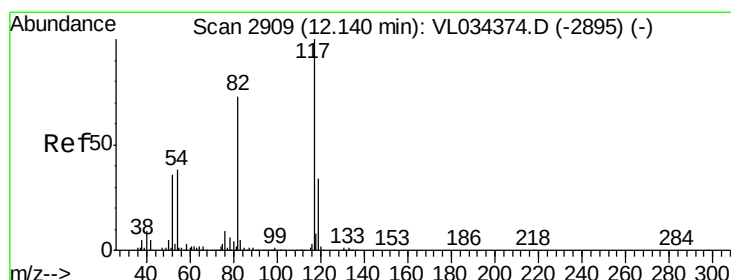
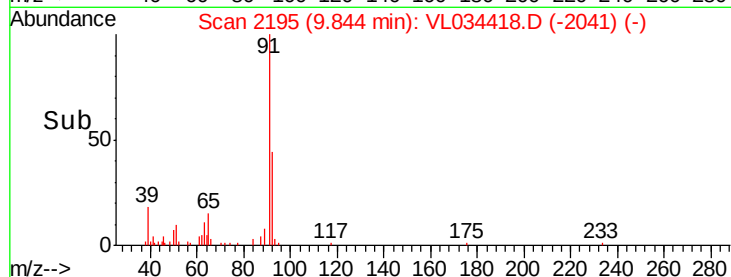
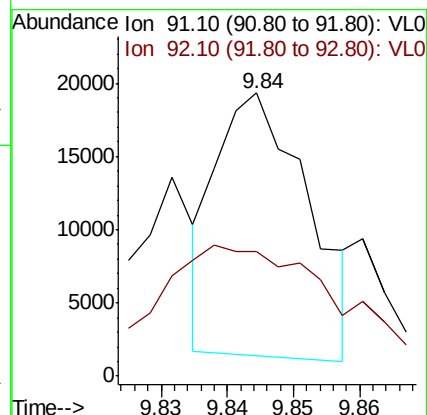
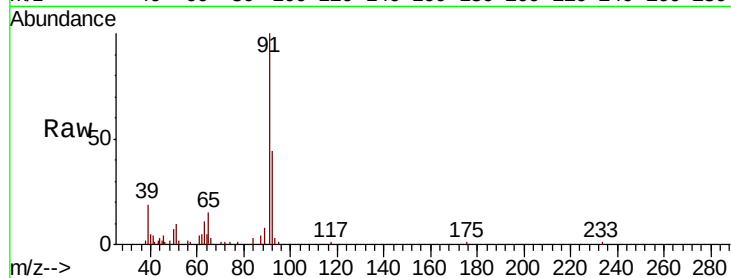
ClientSampled :

Tot Ion: 91 Resp: 17299

Ion Ratio Lower Upper

91 100

92 109.7 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: VL034418.D

Acq: 25 Nov 2019 22:56

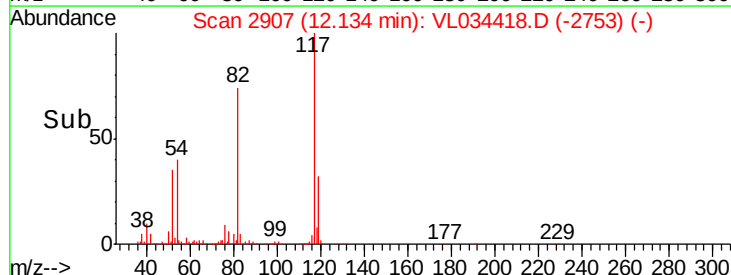
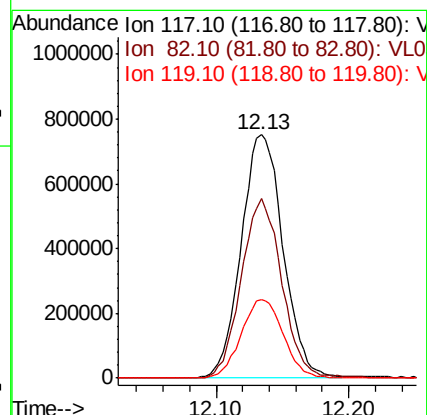
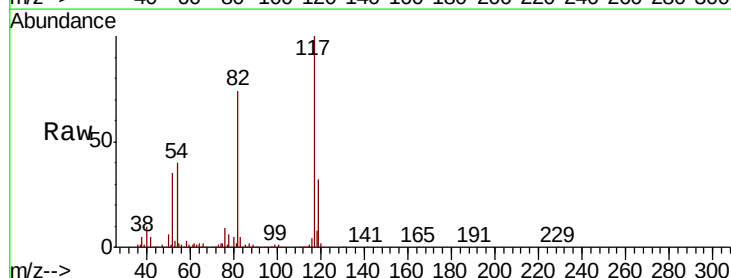
Tgt Ion: 117 Resp: 1646269

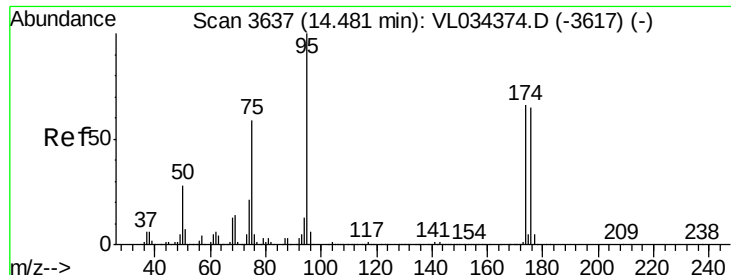
Ion Ratio Lower Upper

117 100

82 72.3 57.5 86.3

119 32.7 25.4 38.2





#68

1-Bromo-4-Fluorobenzene

Concen: 10.093 ppbv

RT: 14.47 min Scan# 3635

Delta R.T. -0.01 min

Lab File: VL034418.D

Acq: 25 Nov 2019 22:56

Instrument :

MSVOA_L

ClientSampleId :

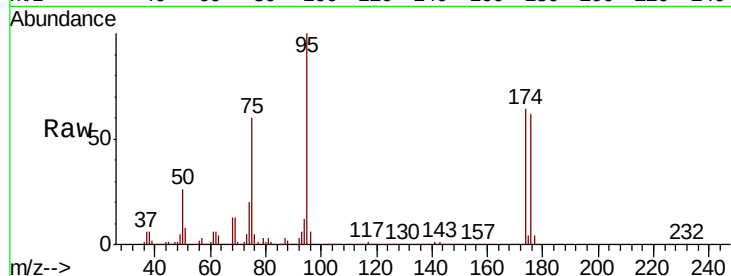
Tot Ion: 95 Resp: 1397850

Ion Ratio Lower Upper

95 100

174 66.0 52.2 78.2

175 4.6 3.8 5.8



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

