

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL112519\
 Data File : VL034408.D
 Acq On : 25 Nov 2019 16:21
 Operator : SY/AP
 Sample : K5971-02DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Nov 26 00:43:54 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	5.68	49	949410	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	1906326	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.14	117	1845094	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.47	95	1562136	10.06	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.60%

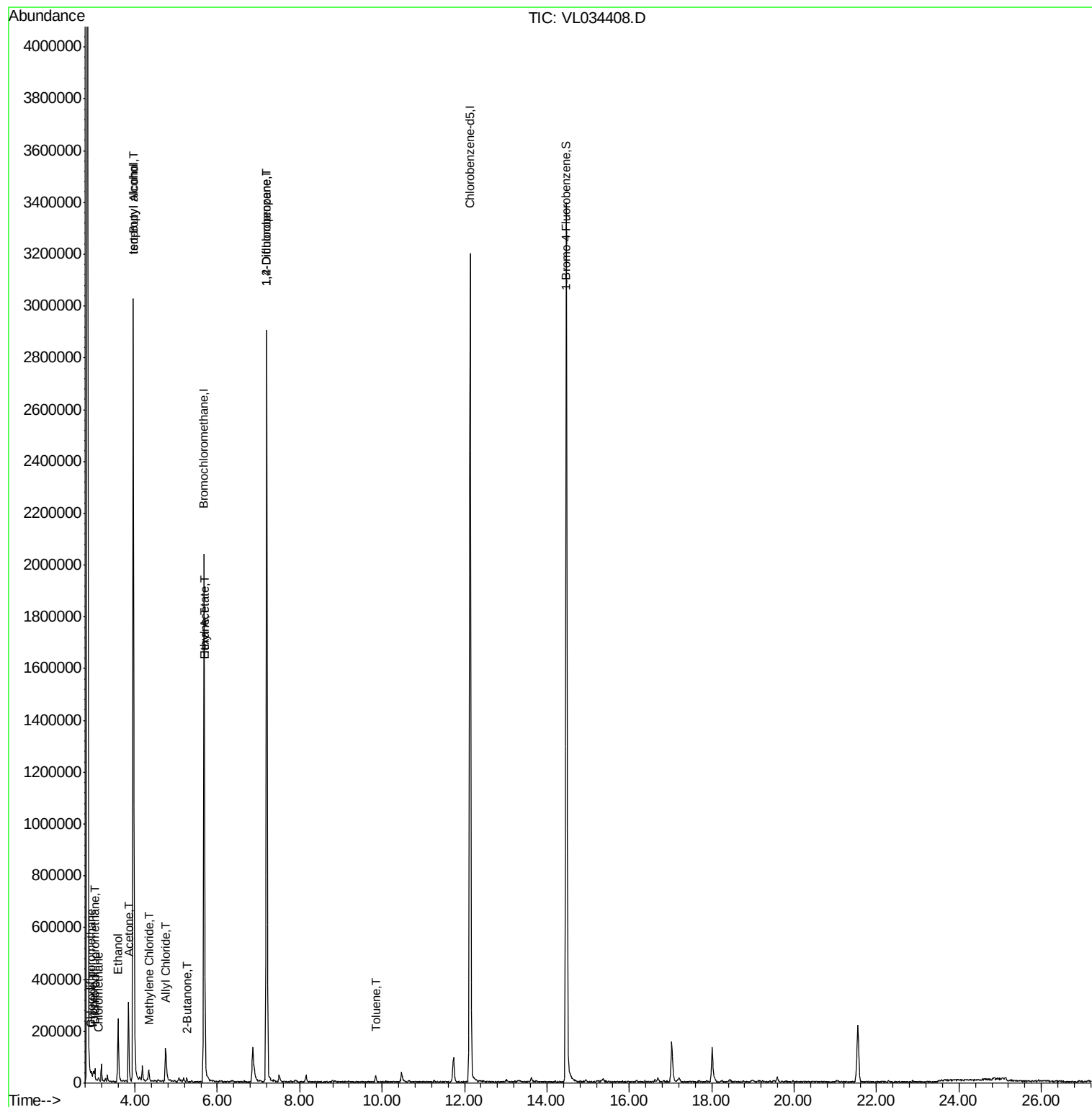
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	22552	0.131	ppbv	94
3) Chlorodifluoromethane	2.95	51	12928	0.109	ppbv #	72
4) Chloromethane	3.11	50	4569	0.065	ppbv	91
9) Propene	2.98	41	2838	0.054	ppbv #	9
13) Ethanol	3.59	45	233861	15.963	ppbv	97
15) Acetone	3.84	43	281674	2.072	ppbv	99
17) tert-Butyl alcohol	3.95	59	124900	1.093	ppbv #	94
19) Isopropyl Alcohol	3.96	45	3313992	38.030	ppbv #	99
20) Methylene Chloride	4.34	84	13842	0.287	ppbv #	80
21) Allyl Chloride	4.74	41	16829	0.207	ppbv #	17
25) Ethyl Acetate	5.70	43	18032	0.074	ppbv #	64
26) Hexane	5.70	57	17292	0.166	ppbv #	85
34) 2-Butanone	5.25	43	15244	0.097	ppbv	98
39) 1,2-Dichloropropane	7.20	63	566221	7.713	ppbv #	23
53) Toluene	9.85	91	8544	0.039	ppbv #	54

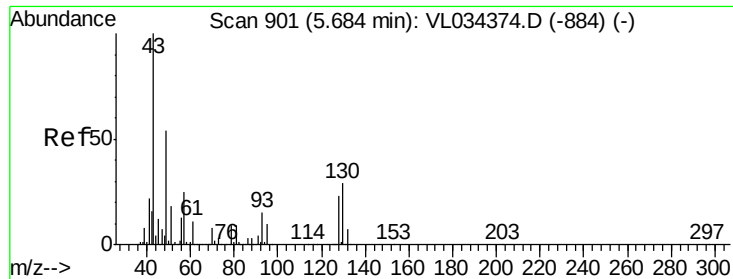
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Nov 26 00:43:54 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
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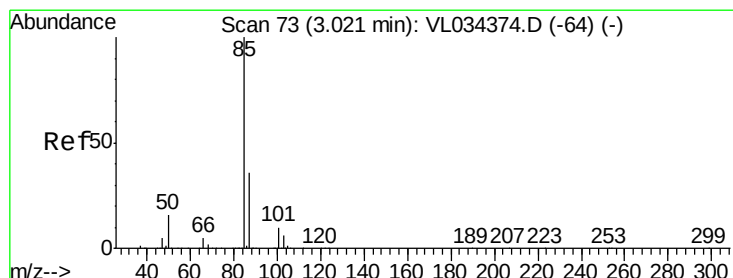
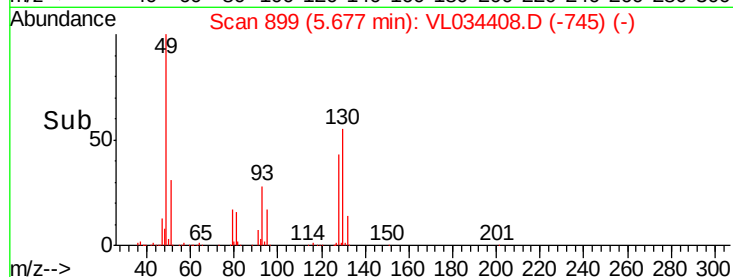
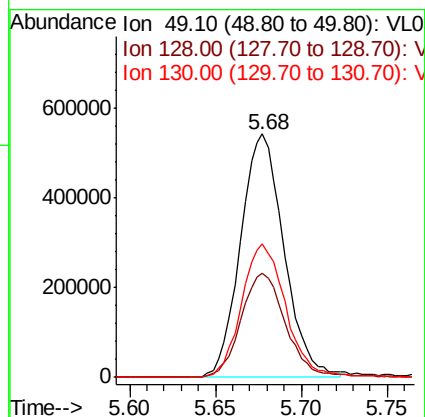
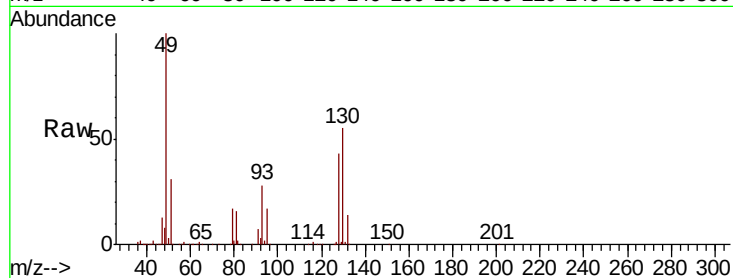




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.68 min Scan# 899
 Delta R.T. -0.01 min
 Lab File: VL034408.D
 Acq: 25 Nov 2019 16:21

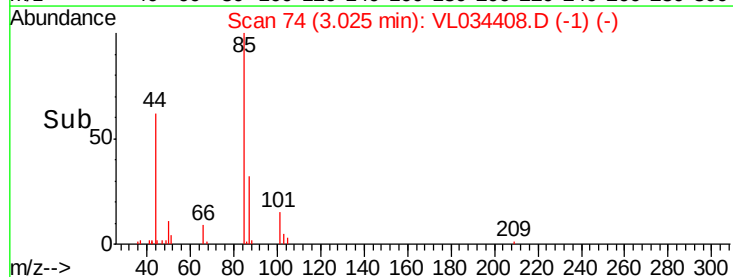
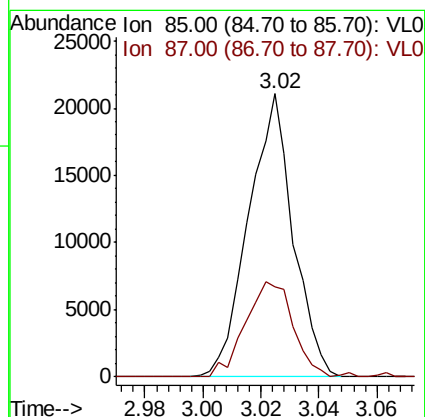
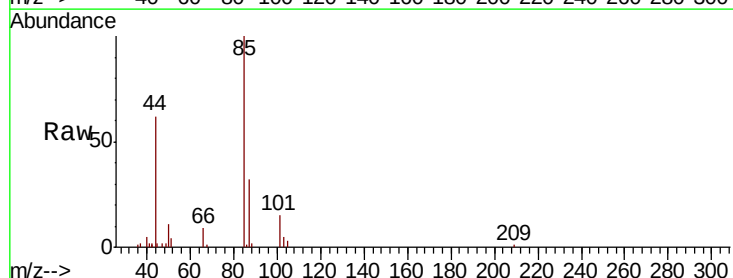
Instrument :
 MSVOA_L
 ClientSampleId :

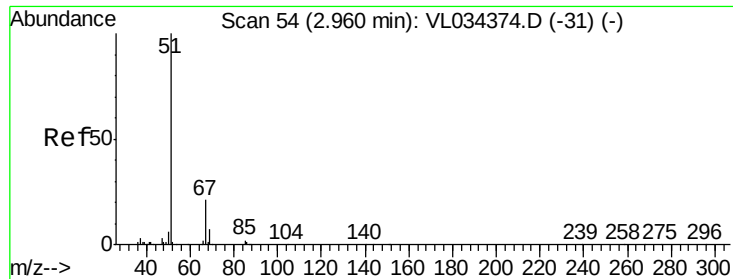
Tot Ion: 49 Resp: 949410
 Ion Ratio Lower Upper
 49 100
 128 44.1 21.8 65.3
 130 55.8 28.0 84.0



#2
 Dichlorodifluoromethane
 Concen: 0.131 ppbv
 RT: 3.02 min Scan# 74
 Delta R.T. 0.00 min
 Lab File: VL034408.D
 Acq: 25 Nov 2019 16:21

Tgt Ion: 85 Resp: 22552
 Ion Ratio Lower Upper
 85 100
 87 31.8 28.5 42.7





#3

Chlorodifluoromethane

Concen: 0.109 ppbv

RT: 2.95 min Scan# 51

Delta R.T. -0.01 min

Lab File: VL034408.D

Acq: 25 Nov 2019 16:21

Instrument :

MSVOA_L

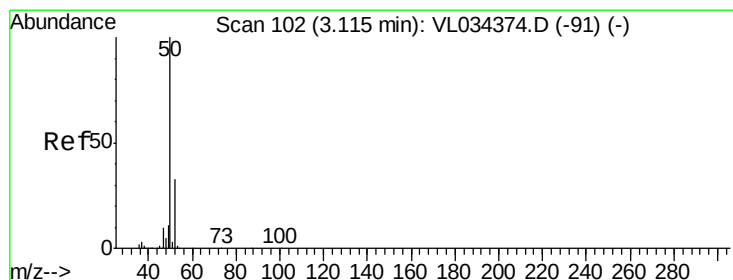
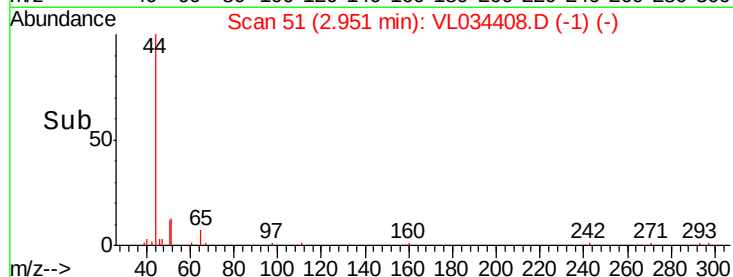
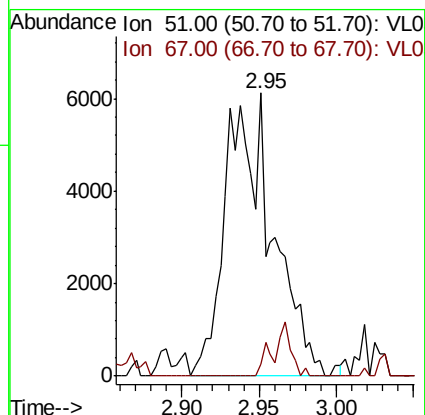
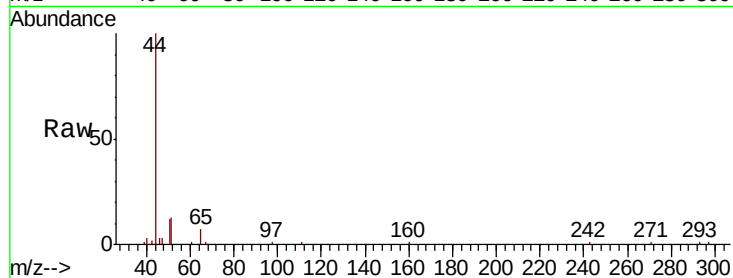
ClientSampleId :

Tot Ion: 51 Resp: 12928

Ion Ratio Lower Upper

51 100

67 7.2 16.2 24.2#



#4

Chloromethane

Concen: 0.065 ppbv

RT: 3.11 min Scan# 101

Delta R.T. -0.00 min

Lab File: VL034408.D

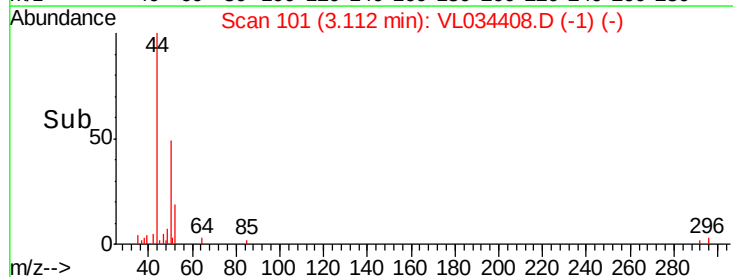
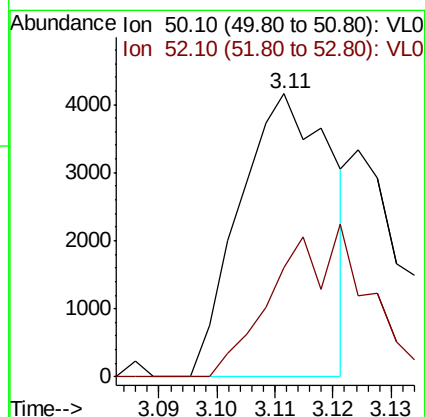
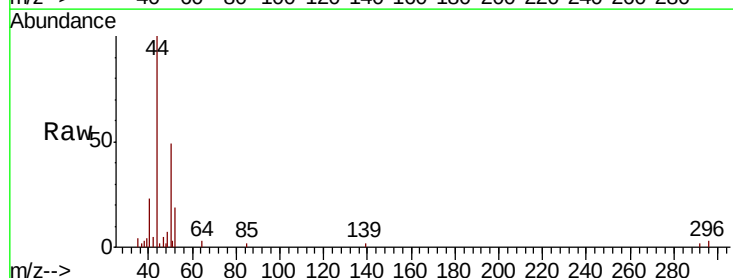
Acq: 25 Nov 2019 16:21

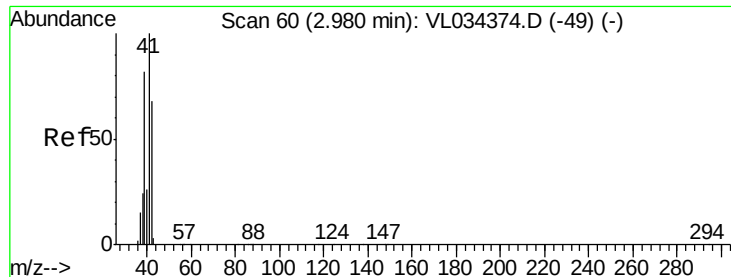
Tgt Ion: 50 Resp: 4569

Ion Ratio Lower Upper

50 100

52 38.5 26.8 40.2

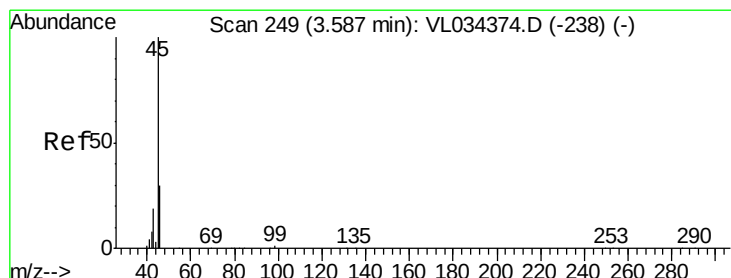
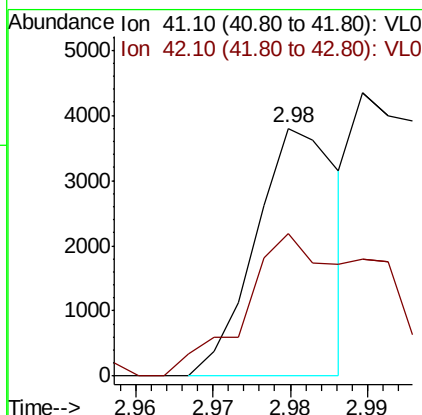
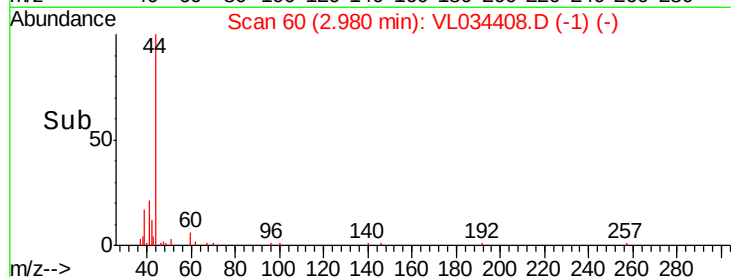
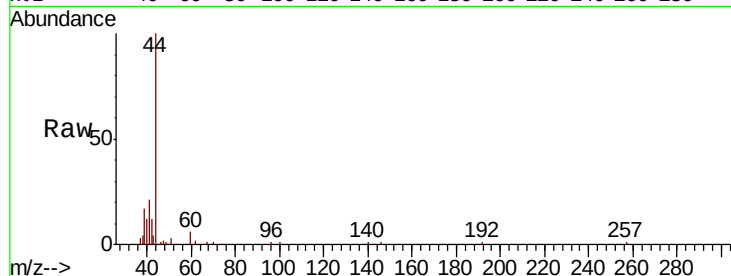




#9
 Propene
 Concen: 0.054 ppbv
 RT: 2.98 min Scan# 60
 Delta R.T. 0.00 min
 Lab File: VL034408.D
 Acq: 25 Nov 2019 16:21

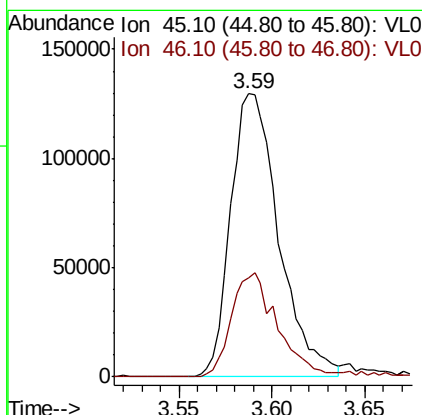
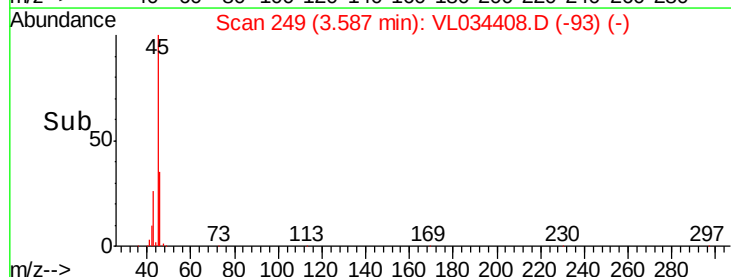
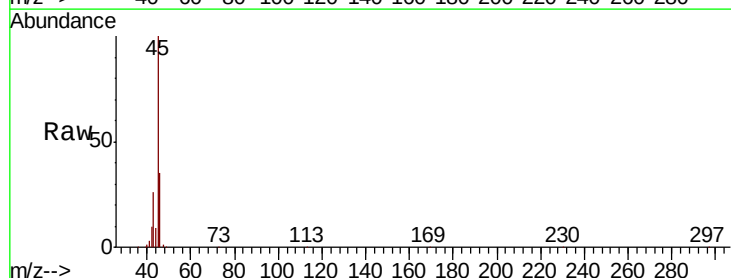
Instrument :
 MSVOA_L
 ClientSampleId :

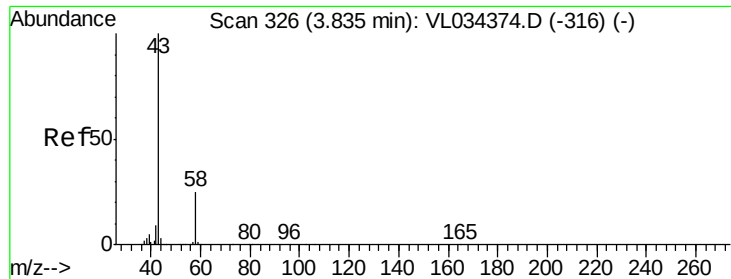
Tot Ion: 41 Resp: 2838
 Ion Ratio Lower Upper
 41 100
 42 142.1 54.6 82.0#



#13
 Ethanol
 Concen: 15.963 ppbv
 RT: 3.59 min Scan# 249
 Delta R.T. 0.00 min
 Lab File: VL034408.D
 Acq: 25 Nov 2019 16:21

Tgt Ion: 45 Resp: 233861
 Ion Ratio Lower Upper
 45 100
 46 36.3 13.8 55.4





#15

Acetone

Concen: 2.072 ppbv

RT: 3.84 min Scan# 328

Delta R.T. 0.01 min

Lab File: VL034408.D

Acq: 25 Nov 2019 16:21

Instrument :

MSVOA_L

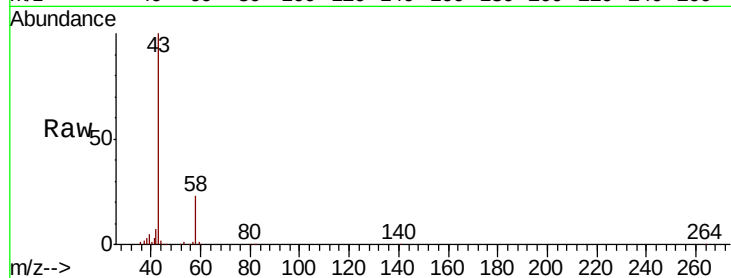
ClientSampleId :

Tot Ion: 43 Resp: 281674

Ion Ratio Lower Upper

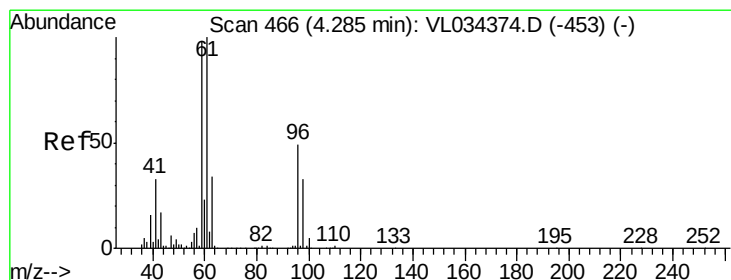
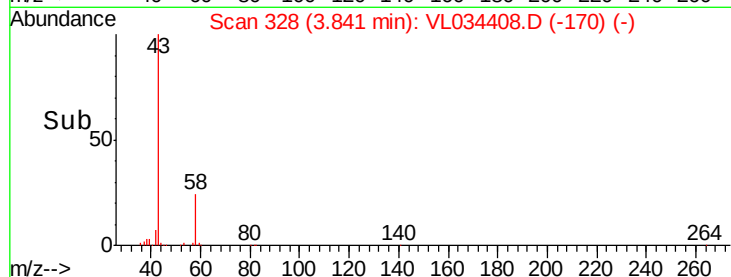
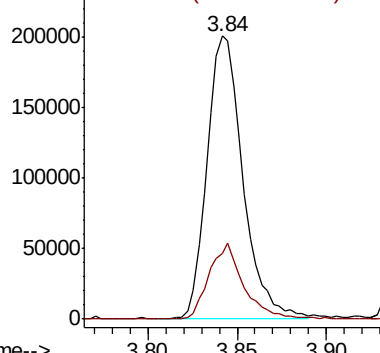
43 100

58 25.9 20.2 30.4



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#17

tert-Butyl alcohol

Concen: 1.093 ppbv

RT: 3.95 min Scan# 363

Delta R.T. -0.33 min

Lab File: VL034408.D

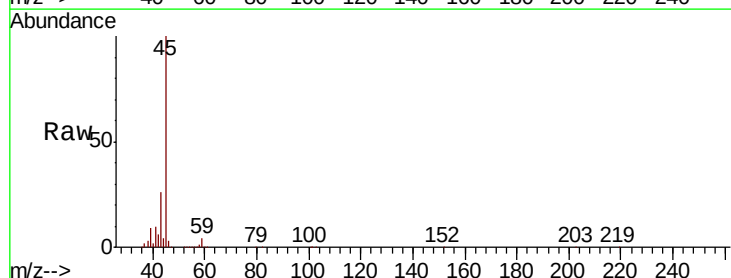
Acq: 25 Nov 2019 16:21

Tgt Ion: 59 Resp: 124900

Ion Ratio Lower Upper

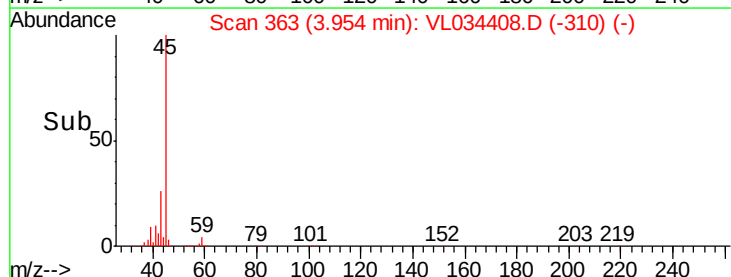
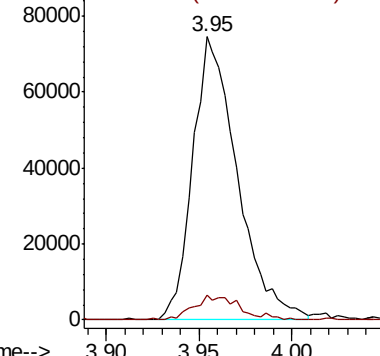
59 100

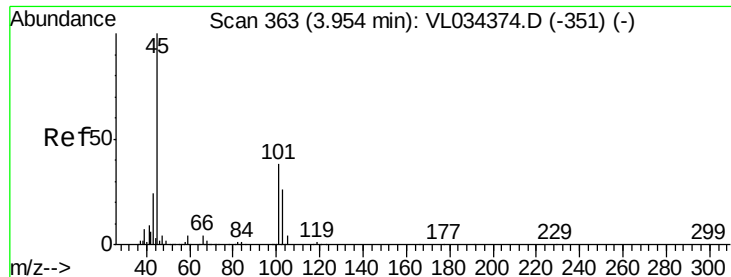
57 8.7 8.8 13.2#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



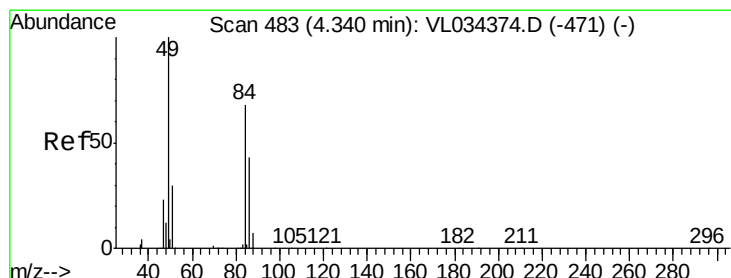
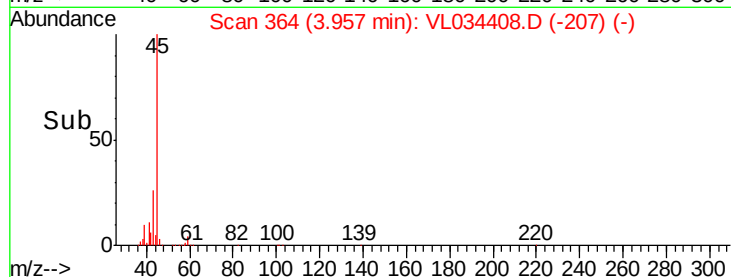
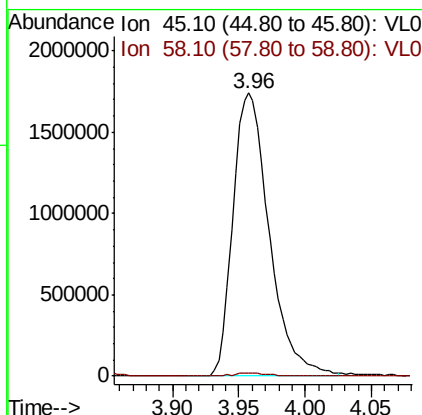
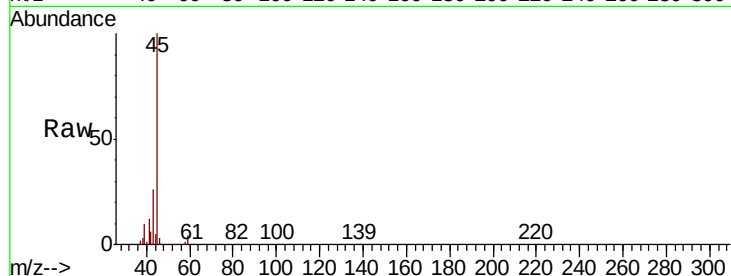


#19

Isopropyl Alcohol
 Concen: 38.030 ppbv
 RT: 3.96 min Scan# 364
 Delta R.T. 0.00 min
 Lab File: VL034408.D
 Acq: 25 Nov 2019 16:21

Instrument :
 MSVOA_L
 ClientSampleId :

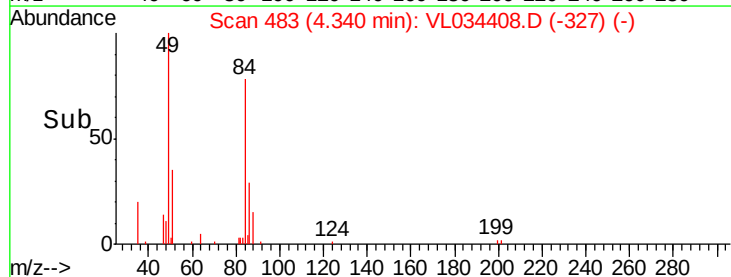
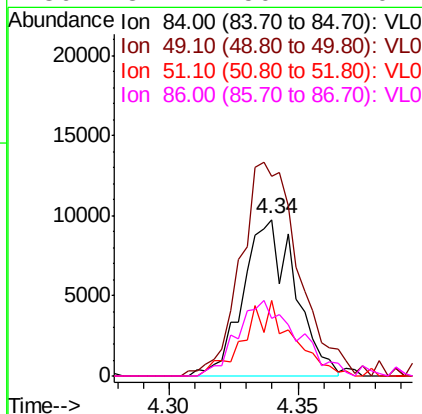
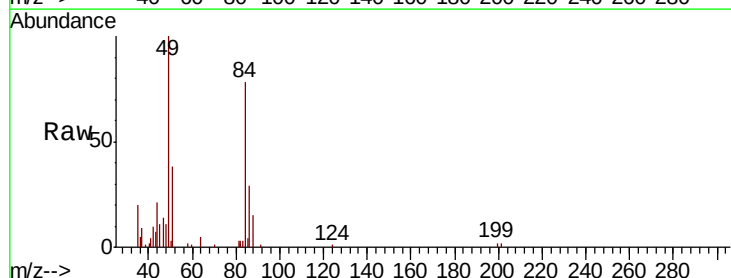
Tot Ion: 45 Resp: 3313992
 Ion Ratio Lower Upper
 45 100
 58 1.1 1.3 1.9#

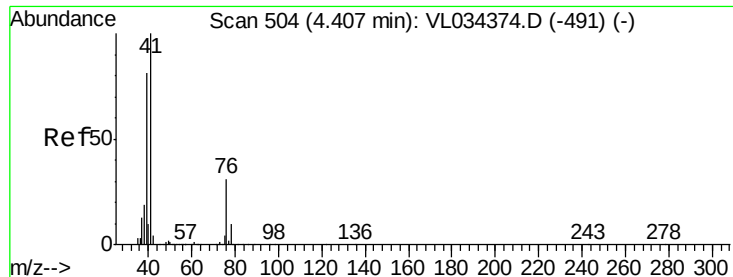


#20

Methylene Chloride
 Concen: 0.287 ppbv
 RT: 4.34 min Scan# 483
 Delta R.T. 0.00 min
 Lab File: VL034408.D
 Acq: 25 Nov 2019 16:21

Tgt Ion: 84 Resp: 13842
 Ion Ratio Lower Upper
 84 100
 49 124.2 116.8 175.2
 51 48.3 35.6 53.4
 86 37.1 50.7 76.1#

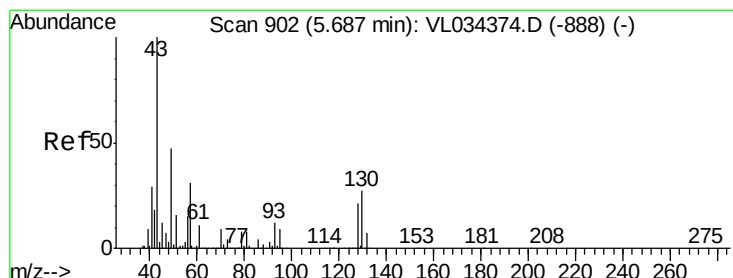
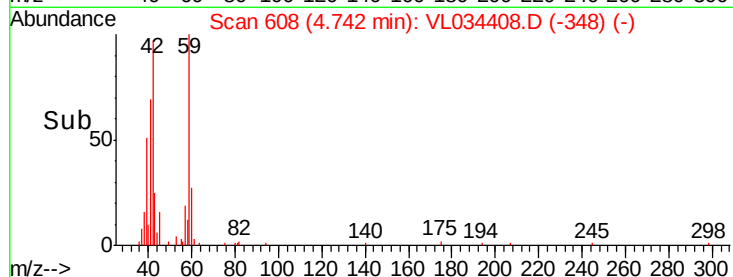
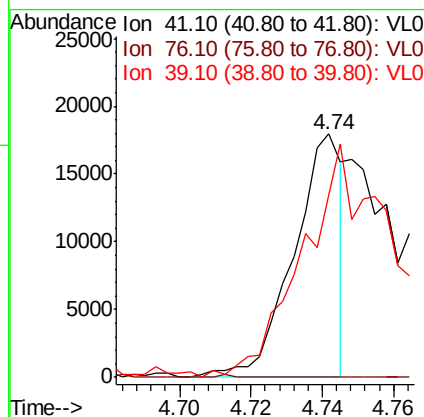
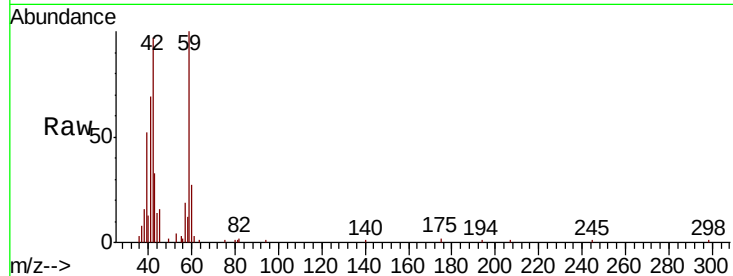




#21
Allvl Chloride
Concen: 0.207 ppbv
RT: 4.74 min Scan# 608
Delta R.T. 0.33 min
Lab File: VL034408.D
Acq: 25 Nov 2019 16:21

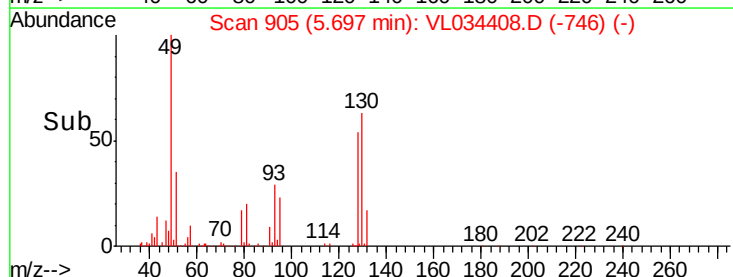
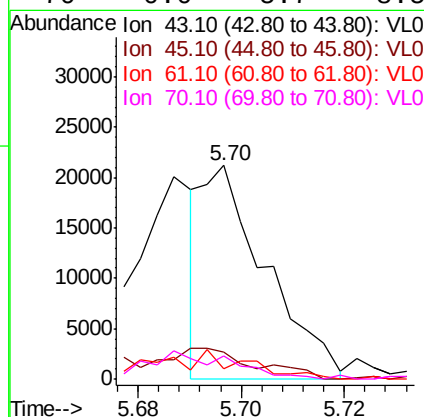
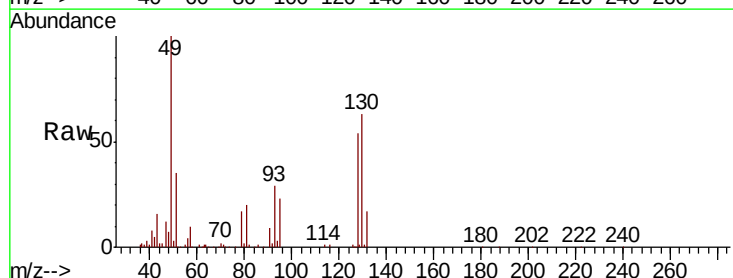
Instrument :
MSVOA_L
ClientSampled :

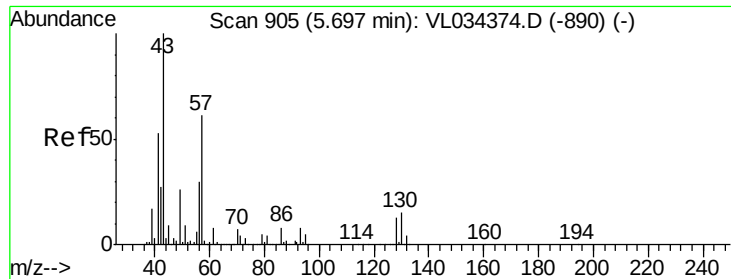
Tot Ion: 41 Resp: 16829
Ion Ratio Lower Upper
41 100
76 0.2 24.2 36.2#
39 0.0 66.9 100.3#



#25
Ethyl Acetate
Concen: 0.074 ppbv
RT: 5.70 min Scan# 905
Delta R.T. 0.01 min
Lab File: VL034408.D
Acq: 25 Nov 2019 16:21

Tgt Ion: 43 Resp: 18032
Ion Ratio Lower Upper
43 100
45 28.8 8.2 12.4#
61 21.0 7.5 11.3#
70 0.0 5.7 8.5#

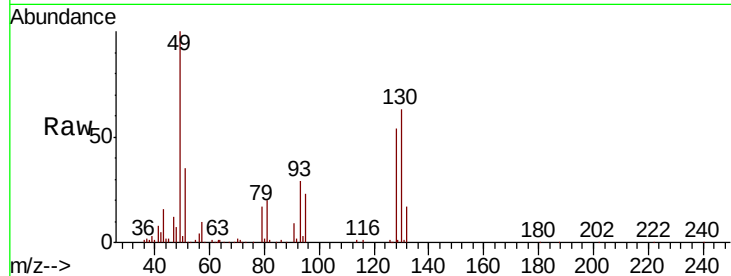




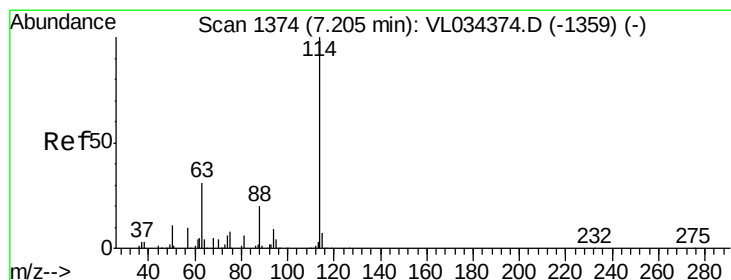
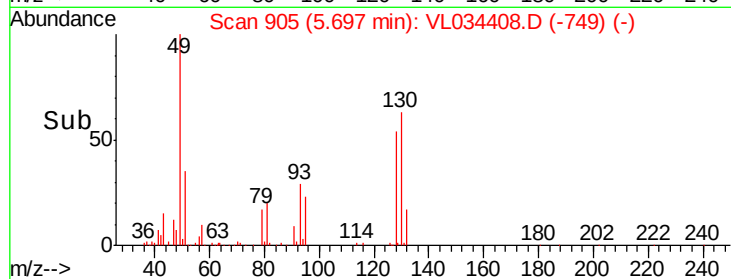
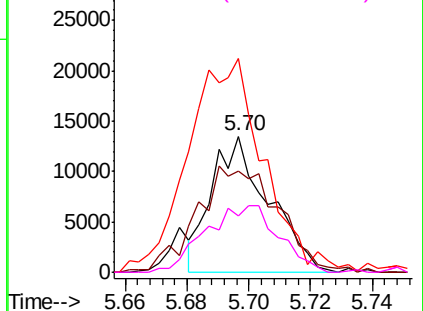
#26
Hexane
Concen: 0.166 ppbv
RT: 5.70 min Scan# 905
Delta R.T. 0.00 min
Lab File: VL034408.D
Acq: 25 Nov 2019 16:21

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 57 Resp: 17292
Ion Ratio Lower Upper
57 100
41 111.3 75.0 112.4
43 212.2 186.6 279.8
56 64.2 41.5 62.3#

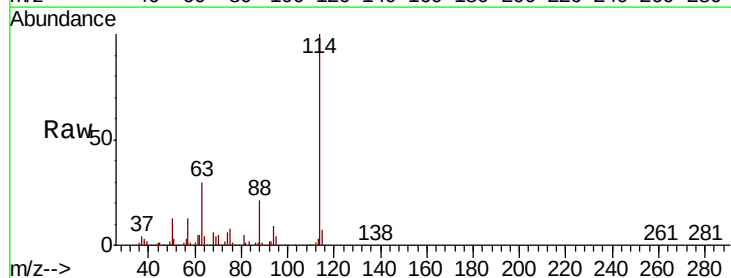


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

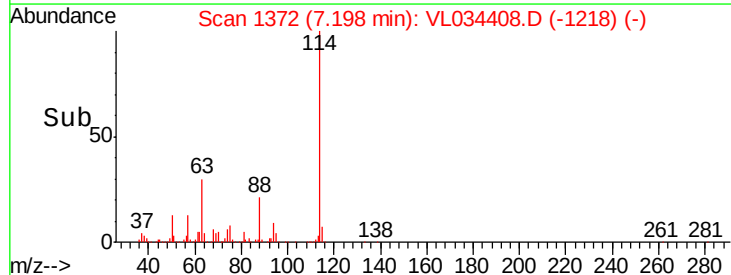
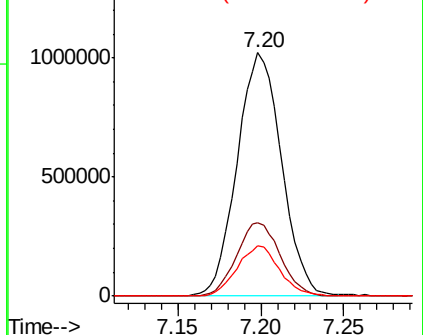


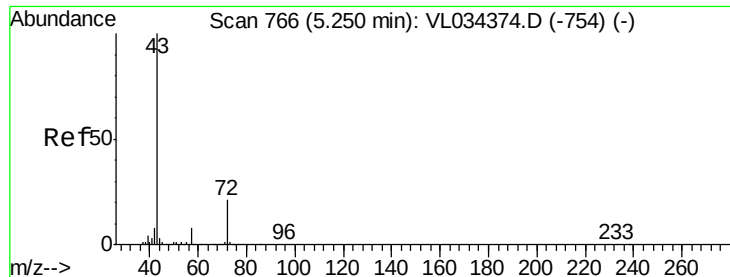
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.20 min Scan# 1372
Delta R.T. -0.01 min
Lab File: VL034408.D
Acq: 25 Nov 2019 16:21

Tgt Ion:114 Resp: 1906326
Ion Ratio Lower Upper
114 100
63 29.9 24.2 36.4
88 19.7 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: 0.097 ppbv

RT: 5.25 min Scan# 767

Delta R.T. 0.00 min

Lab File: VL034408.D

Acq: 25 Nov 2019 16:21

Instrument :

MSVOA_L

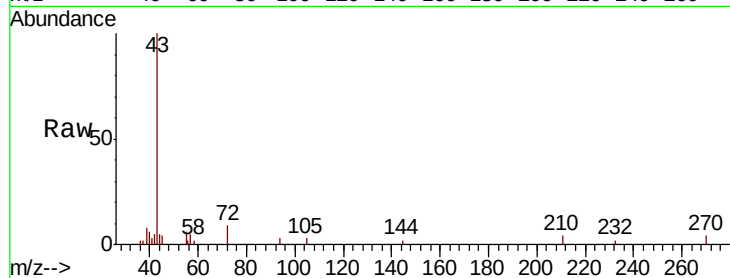
ClientSampleId :

Tot Ion: 43 Resp: 15244

Ion Ratio Lower Upper

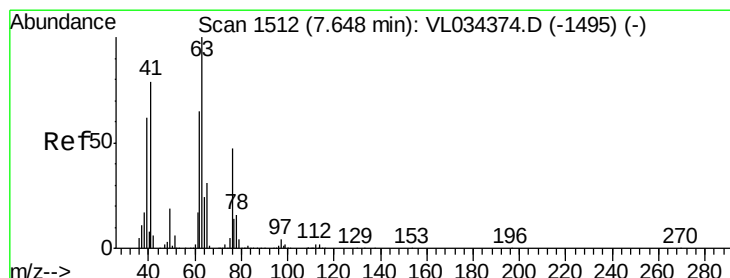
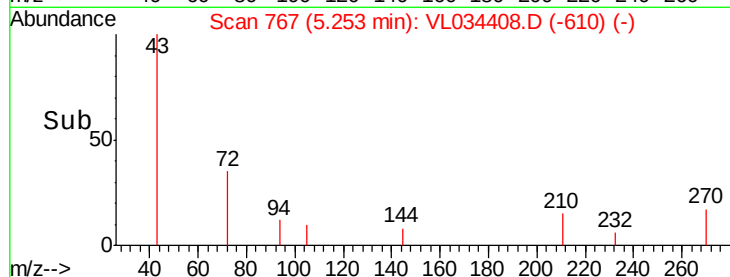
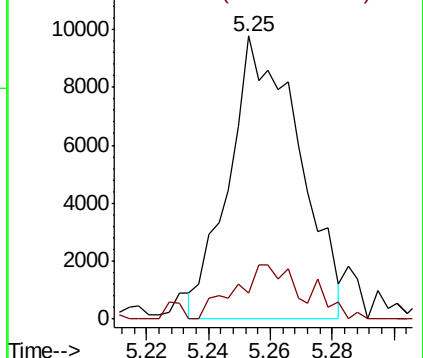
43 100

72 20.6 17.0 25.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0



#39

1,2-Dichloropropane

Concen: 7.713 ppbv

RT: 7.20 min Scan# 1372

Delta R.T. -0.45 min

Lab File: VL034408.D

Acq: 25 Nov 2019 16:21

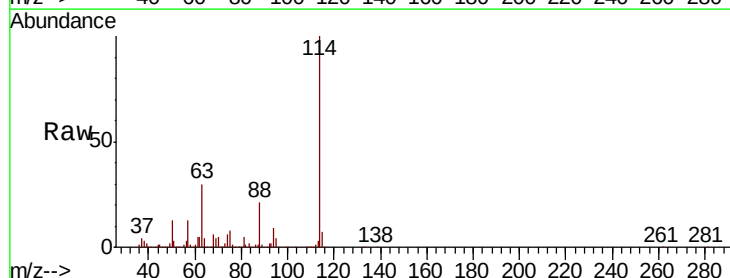
Tgt Ion: 63 Resp: 566221

Ion Ratio Lower Upper

63 100

41 0.0 63.1 94.7#

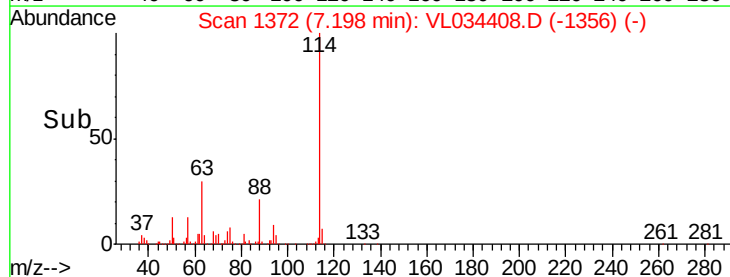
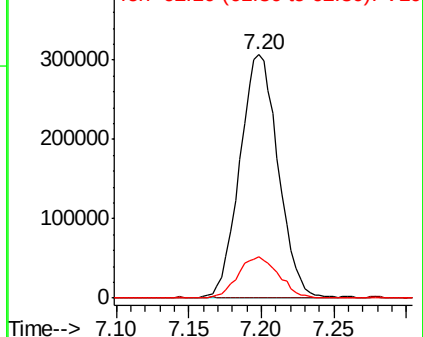
62 17.2 52.3 78.5#

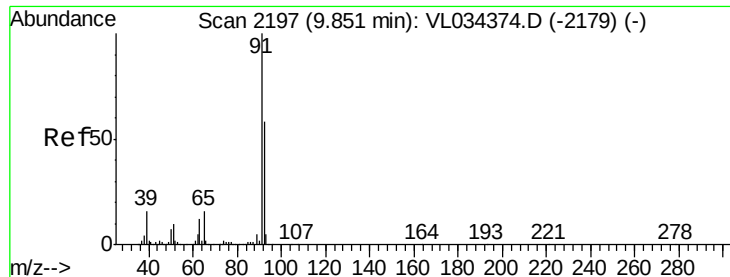


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#53

Toluene

Concen: 0.039 ppbv

RT: 9.85 min Scan# 2196

Delta R.T. -0.00 min

Lab File: VL034408.D

Acq: 25 Nov 2019 16:21

Instrument :

MSVOA_L

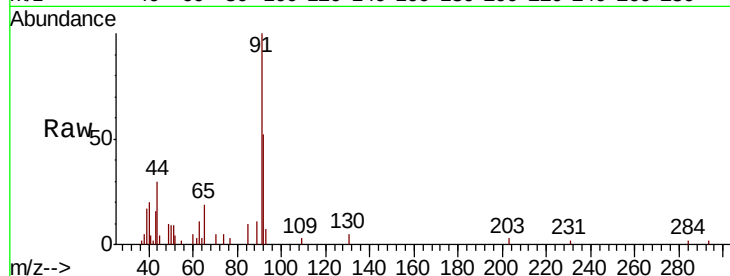
ClientSampleId :

Tot Ion: 91 Resp: 8544

Ion Ratio Lower Upper

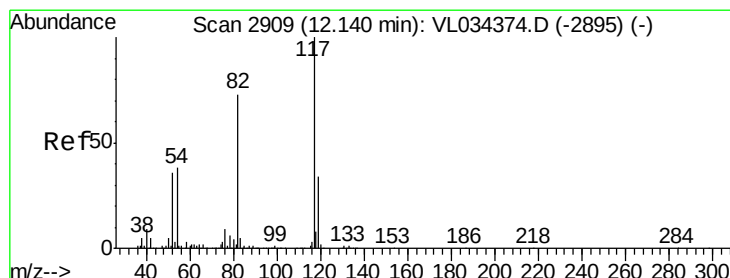
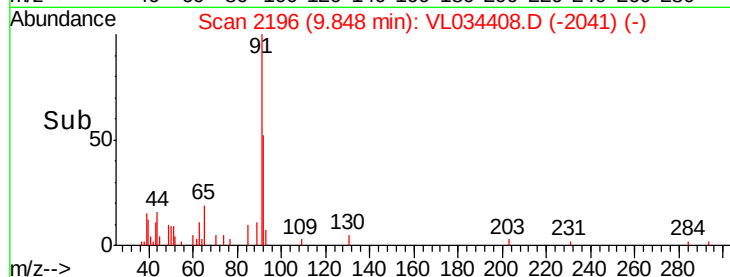
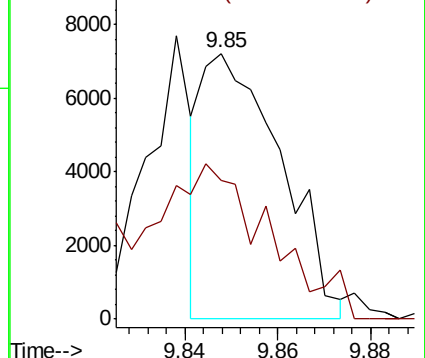
91 100

92 94.9 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: 12.14 min Scan# 2908

Delta R.T. -0.00 min

Lab File: VL034408.D

Acq: 25 Nov 2019 16:21

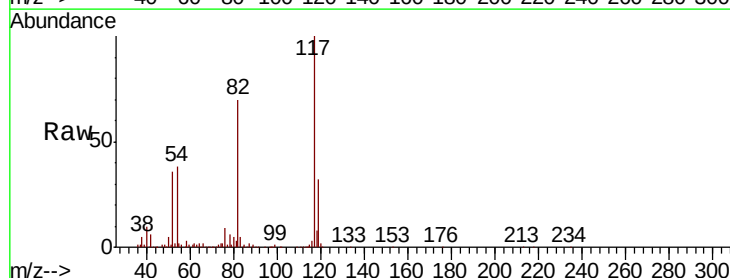
Tgt Ion: 117 Resp: 1845094

Ion Ratio Lower Upper

117 100

82 71.6 57.5 86.3

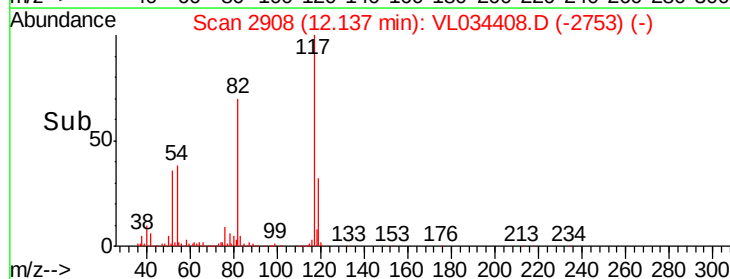
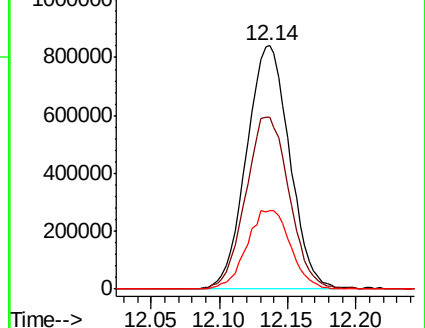
119 33.1 25.4 38.2

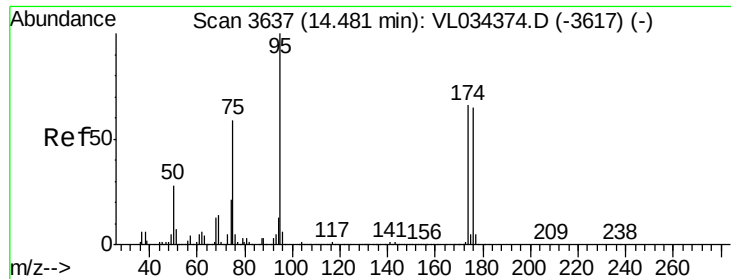


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 10.064 ppbv

RT: 14.47 min Scan# 3633

Delta R.T. -0.01 min

Lab File: VL034408.D

Acq: 25 Nov 2019 16:21

Instrument :

MSVOA_L

ClientSampleId :

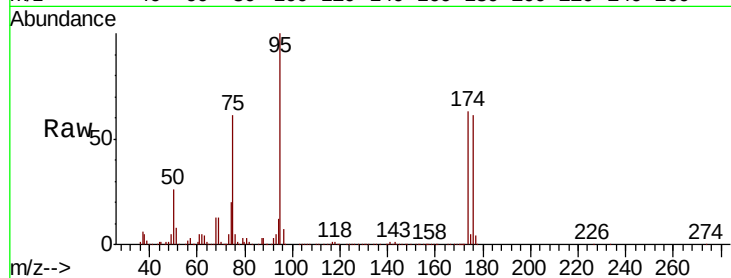
Tot Ion: 95 Resp: 1562136

Ion Ratio Lower Upper

95 100

174 67.1 52.2 78.2

175 4.7 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

