

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL071719\
 Data File : VL034041.D
 Acq On : 17 Jul 2019 21:12
 Operator : SY/AP
 Sample : K3804-01DL2 40X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jul 18 04:40:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL070219AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 02 19:31:31 2019
 QLast Update : Tue Jul 02 19:31:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.72	49	1003866	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.25	114	3977733	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.19	117	2912367	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.52	95	2276958	9.17	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	91.70%

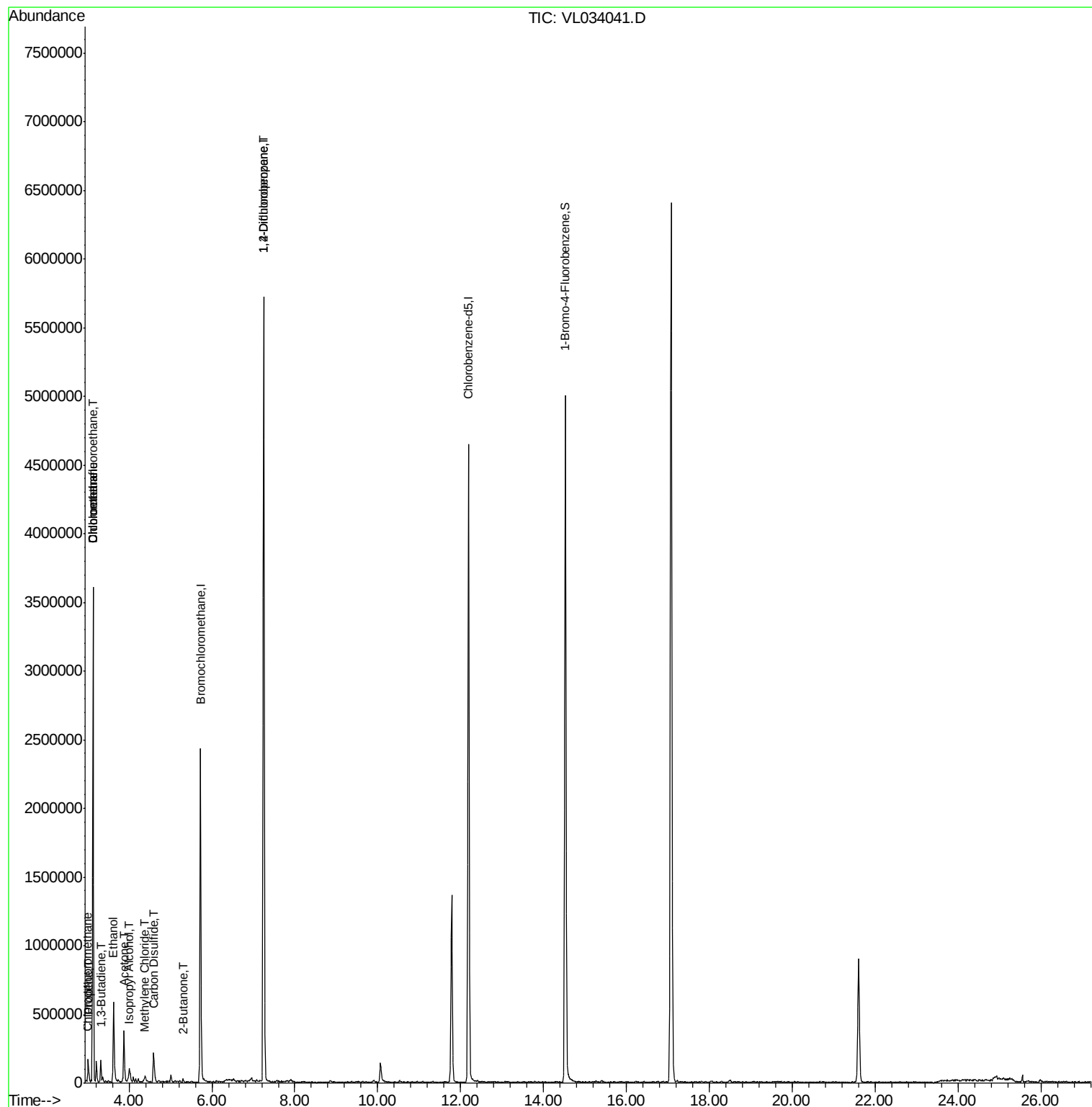
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.99	51	4093	0.033	ppbv #	68
4) Chloromethane	3.13	50	41445	0.581	ppbv #	40
7) Chloroethane	3.13	64	208586	7.281	ppbv	99
8) Dichlorotetrafluoroethane	3.13	85	309041	1.530	ppbv #	15
9) Propene	3.02	41	55284	1.212	ppbv	95
13) Ethanol	3.63	45	620958	43.832	ppbv	93
15) Acetone	3.88	43	345096	2.045	ppbv	96
16) 1,3-Butadiene	3.34	39	4495	0.075	ppbv #	1
19) Isopropyl Alcohol	4.01	45	106401	0.939	ppbv #	90
20) Methylene Chloride	4.37	84	7757	0.105	ppbv #	79
27) Carbon Disulfide	4.59	76	236146	1.315	ppbv	95
34) 2-Butanone	5.30	43	15576	0.074	ppbv #	50
39) 1,2-Dichloropropane	7.25	63	523179	4.520	ppbv #	24

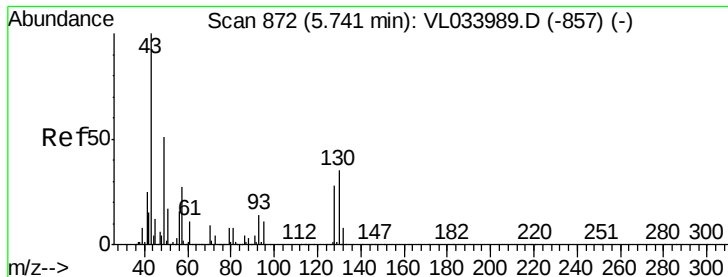
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Jul 02 19:31:31 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.72 min Scan# 866

Delta R.T. -0.02 min

Lab File: VL034041.D

Acq: 17 Jul 2019 21:12

Instrument :
MSVOA_L
ClientSampleId :

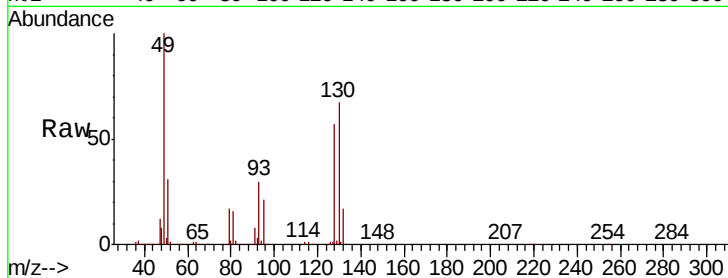
Tot Ion: 49 Resp: 1003866

Ion Ratio Lower Upper

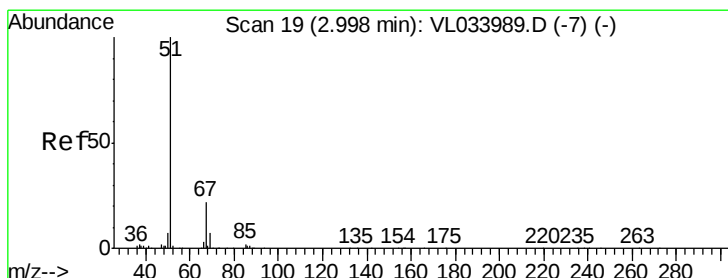
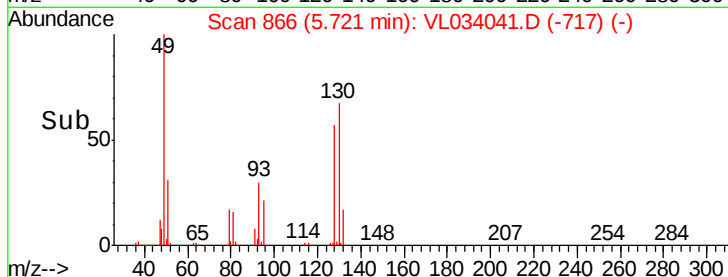
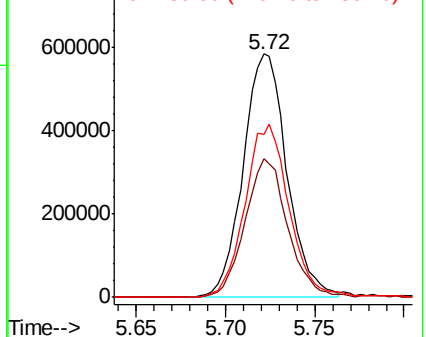
49 100

128 56.1 27.9 83.6

130 71.9 35.8 107.4



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



#3

Chlorodifluoromethane

Concen: 0.033 ppbv

RT: 2.99 min Scan# 17

Delta R.T. -0.01 min

Lab File: VL034041.D

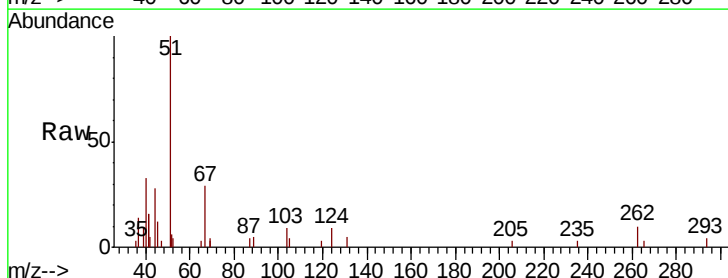
Acq: 17 Jul 2019 21:12

Tgt Ion: 51 Resp: 4093

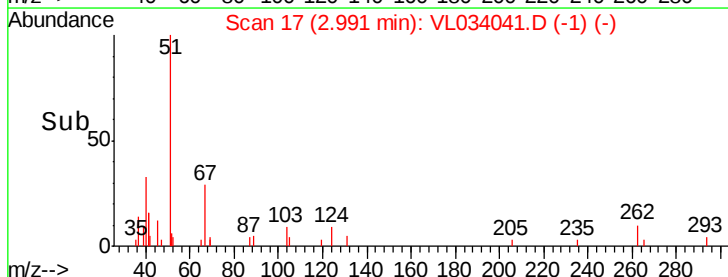
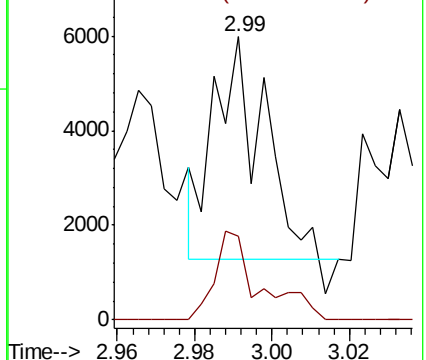
Ion Ratio Lower Upper

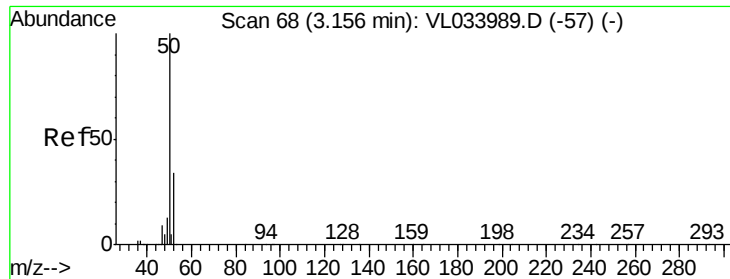
51 100

67 36.6 17.3 25.9#



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





#4

Chloromethane

Concen: 0.581 ppbv

RT: 3.13 min Scan# 61

Delta R.T. -0.02 min

Lab File: VL034041.D

Acq: 17 Jul 2019 21:12

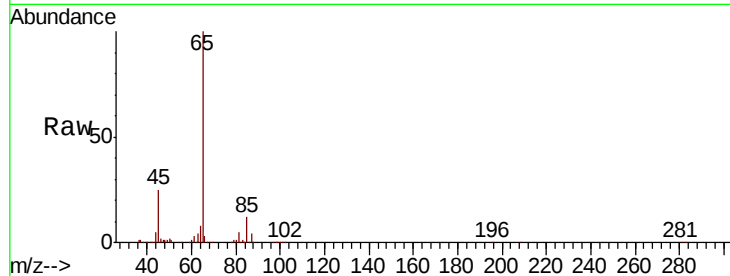
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 50 Resp: 41445

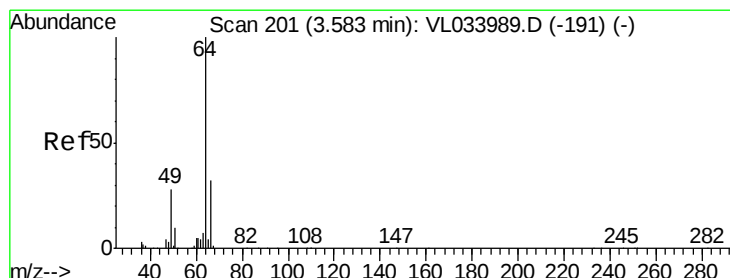
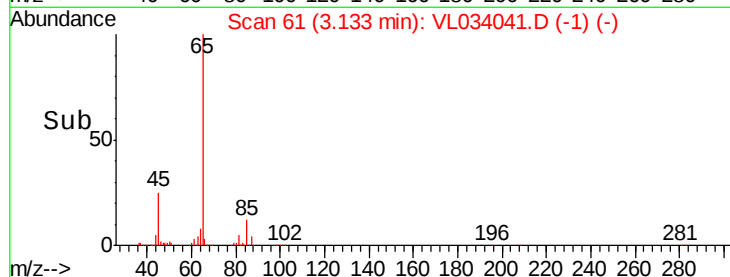
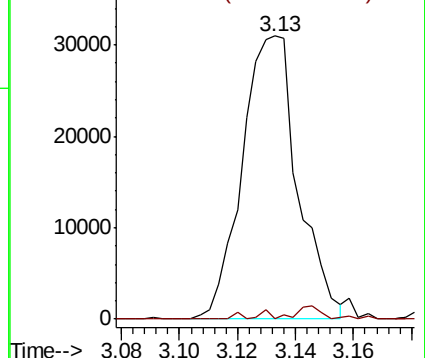
Ion Ratio Lower Upper

50 100

52 0.0 27.4 41.0#



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



#7

Chloroethane

Concen: 7.281 ppbv

RT: 3.13 min Scan# 60

Delta R.T. -0.45 min

Lab File: VL034041.D

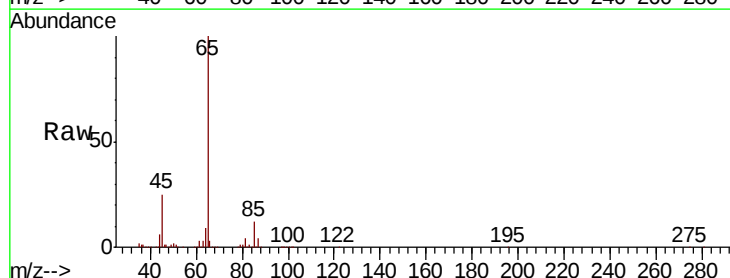
Acq: 17 Jul 2019 21:12

Tgt Ion: 64 Resp: 208586

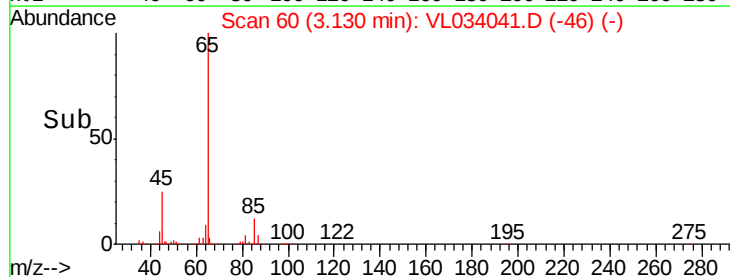
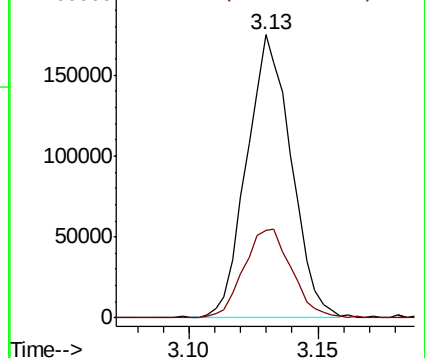
Ion Ratio Lower Upper

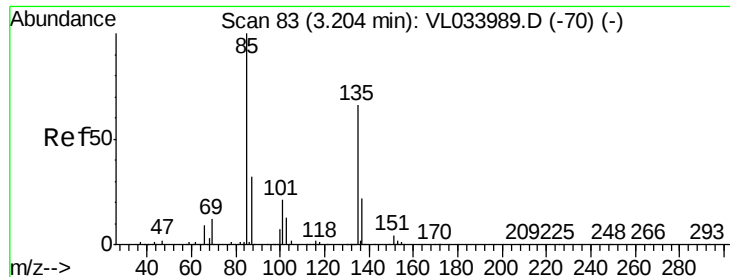
64 100

66 31.0 25.3 37.9



Abundance Ion 64.10 (63.80 to 64.80): VL0
Ion 66.10 (65.80 to 66.80): VL0





#8

Dichlorotetrafluoroethane

Concen: 1.530 ppbv

RT: 3.13 min Scan# 61

Delta R.T. -0.07 min

Lab File: VL034041.D

Acq: 17 Jul 2019 21:12

Instrument :

MSVOA_L

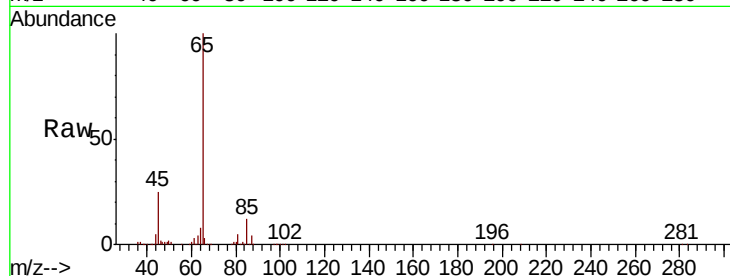
ClientSampleId :

Tot Ion: 85 Resp: 309041

Ion Ratio Lower Upper

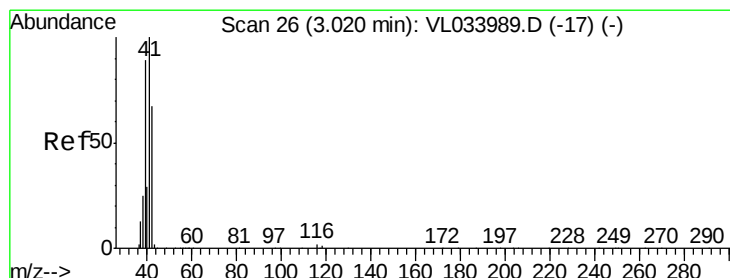
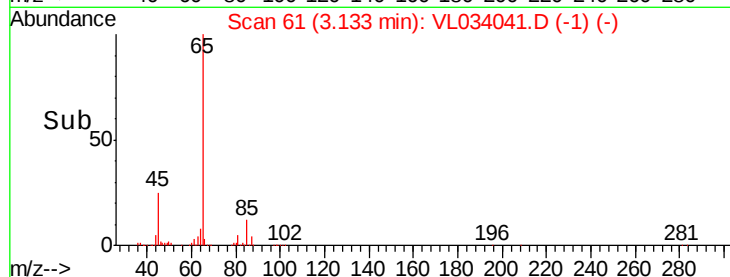
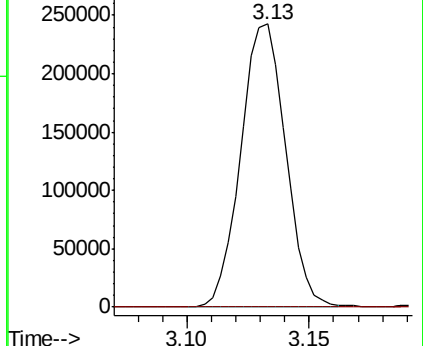
85 100

135 0.0 55.0 82.4#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V



#9

Propene

Concen: 1.212 ppbv

RT: 3.02 min Scan# 25

Delta R.T. -0.00 min

Lab File: VL034041.D

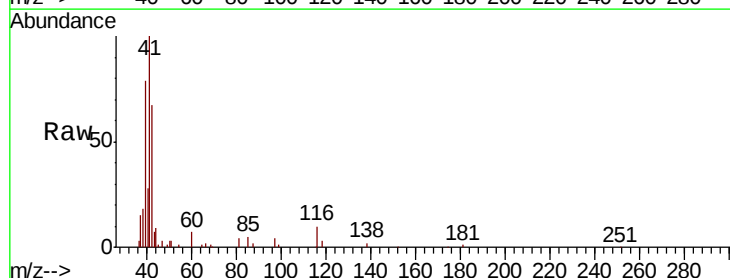
Acq: 17 Jul 2019 21:12

Tgt Ion: 41 Resp: 55284

Ion Ratio Lower Upper

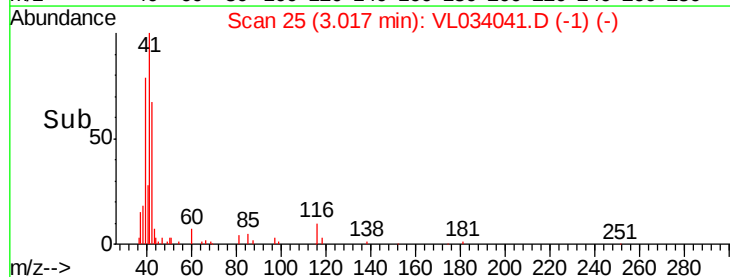
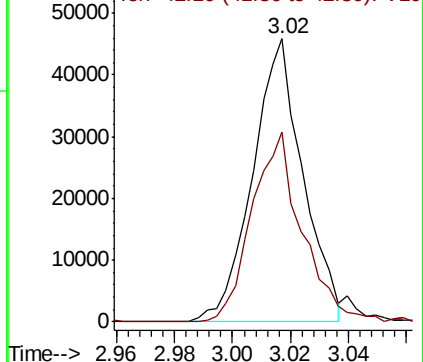
41 100

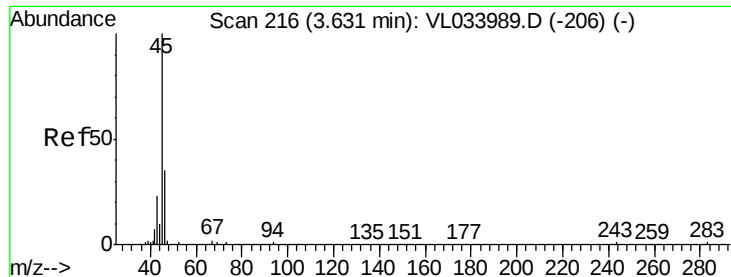
42 67.5 57.1 85.7



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

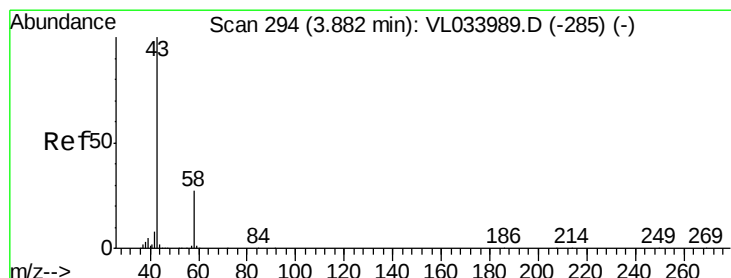
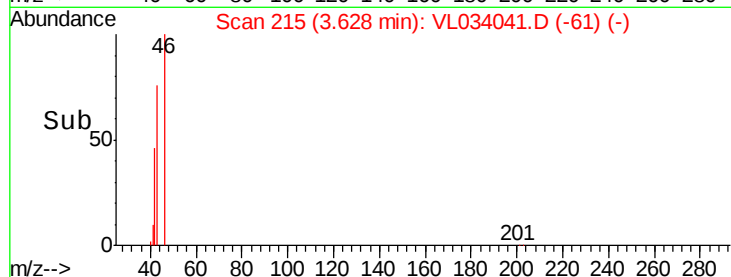
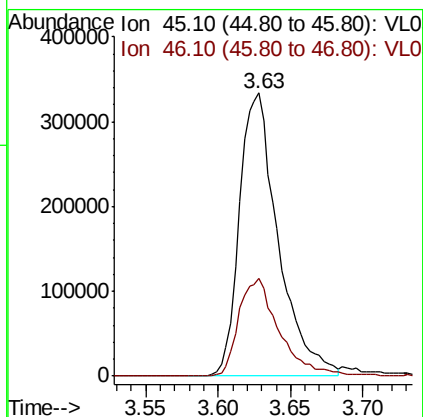
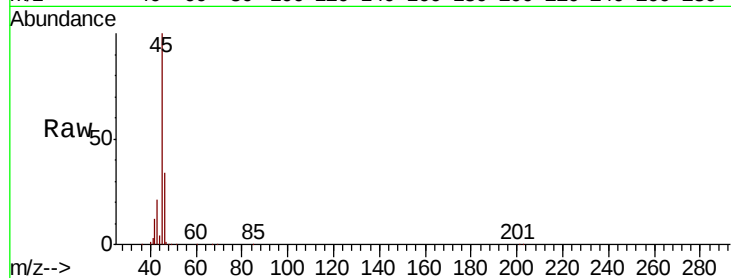




#13
Ethanol
Concen: 43.832 ppbv
RT: 3.63 min Scan# 215
Delta R.T. -0.00 min
Lab File: VL034041.D
Acq: 17 Jul 2019 21:12

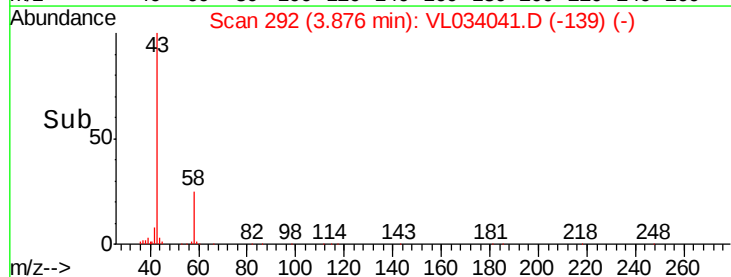
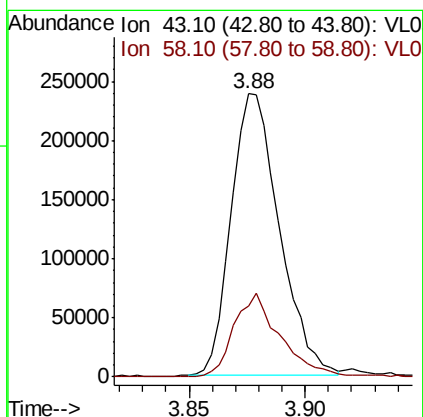
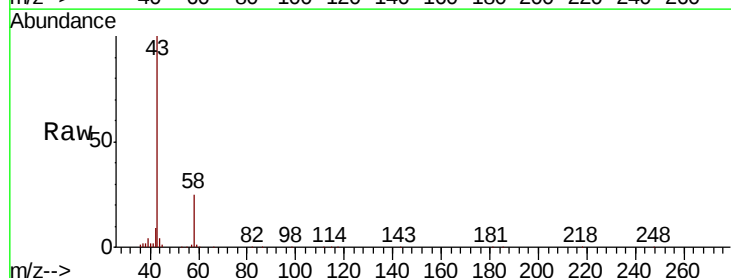
Instrument :
MSVOA_L
ClientSampleId :

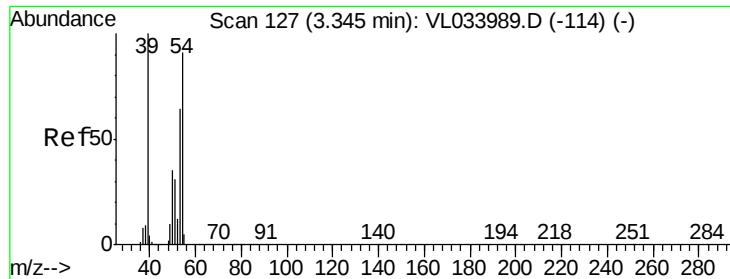
Tot Ion: 45 Resp: 620958
Ion Ratio Lower Upper
45 100
46 36.3 16.2 64.6



#15
Acetone
Concen: 2.045 ppbv
RT: 3.88 min Scan# 292
Delta R.T. -0.01 min
Lab File: VL034041.D
Acq: 17 Jul 2019 21:12

Tgt Ion: 43 Resp: 345096
Ion Ratio Lower Upper
43 100
58 28.9 21.4 32.0

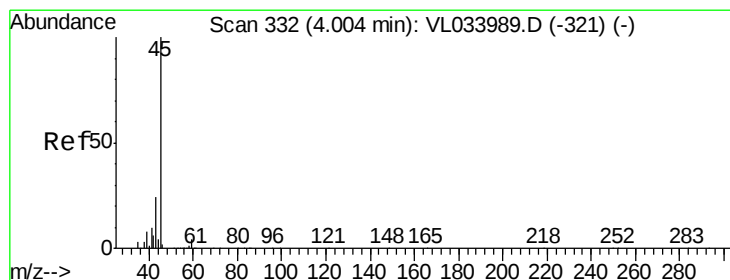
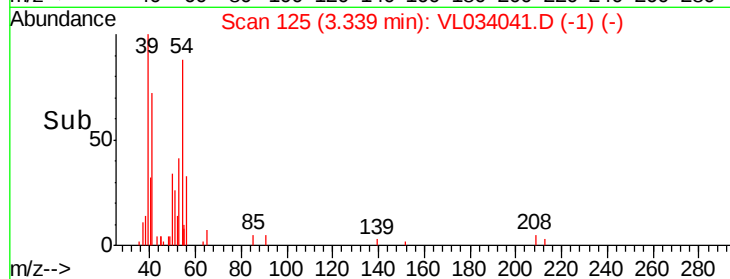
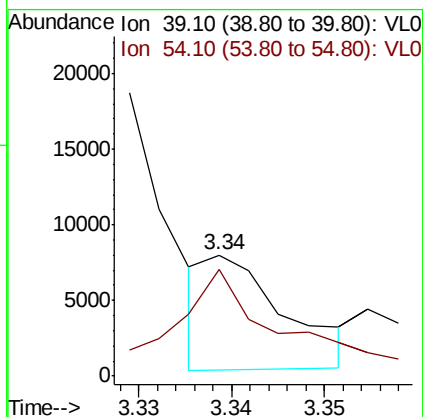
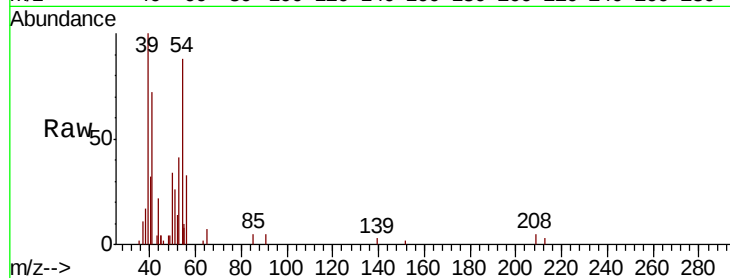




#16
 1,3-Butadiene
 Concen: 0.075 ppbv
 RT: 3.34 min Scan# 125
 Delta R.T. -0.01 min
 Lab File: VL034041.D
 Acq: 17 Jul 2019 21:12

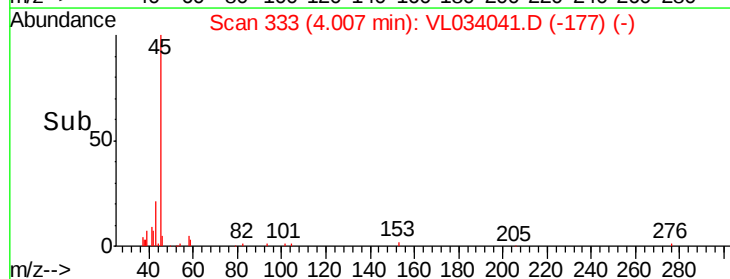
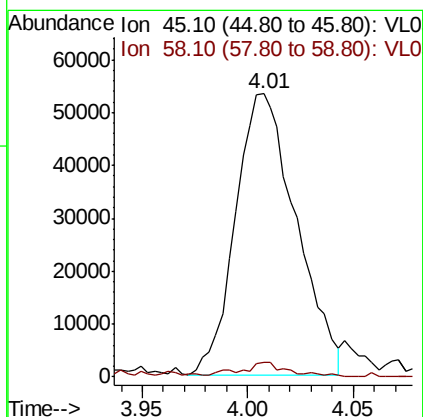
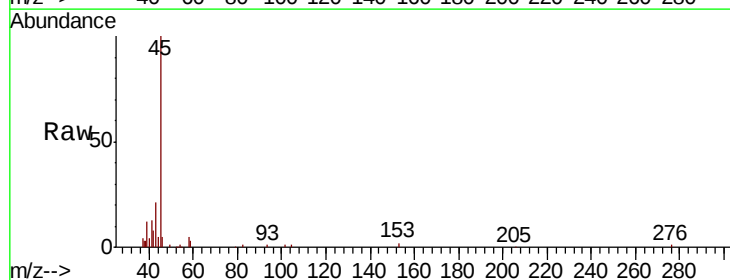
Instrument :
 MSVOA_L
 ClientSampleId :

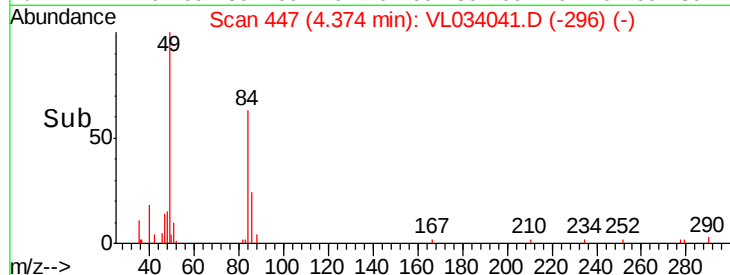
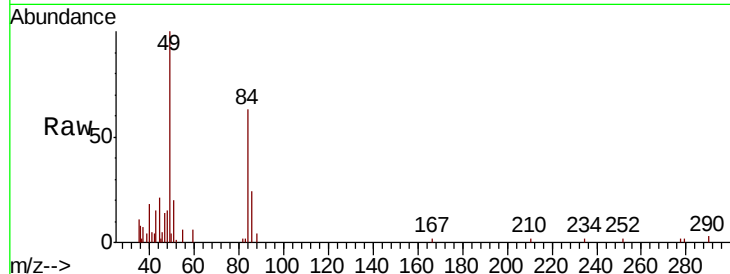
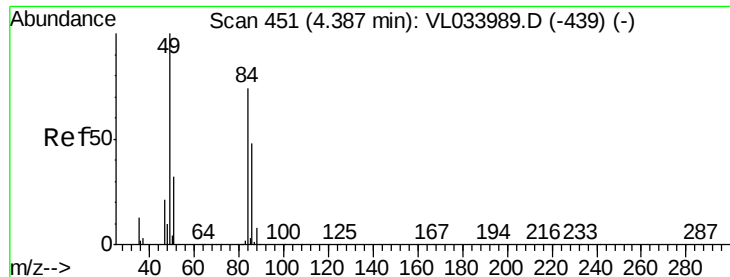
Tot Ion: 39 Resp: 4495
 Ion Ratio Lower Upper
 39 100
 54 194.3 71.4 107.2#



#19
 Isopropyl Alcohol
 Concen: 0.939 ppbv
 RT: 4.01 min Scan# 333
 Delta R.T. 0.00 min
 Lab File: VL034041.D
 Acq: 17 Jul 2019 21:12

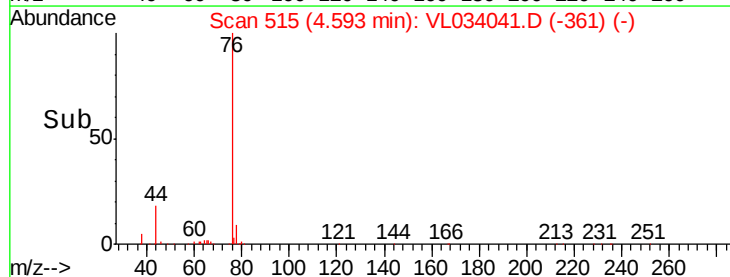
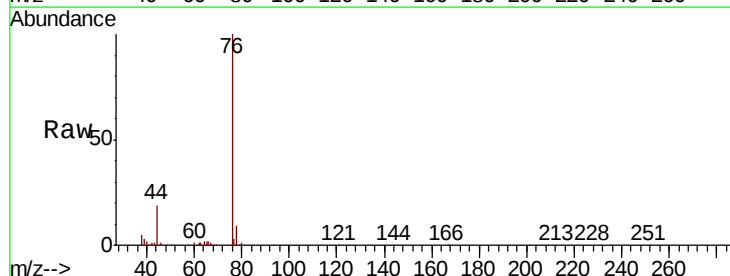
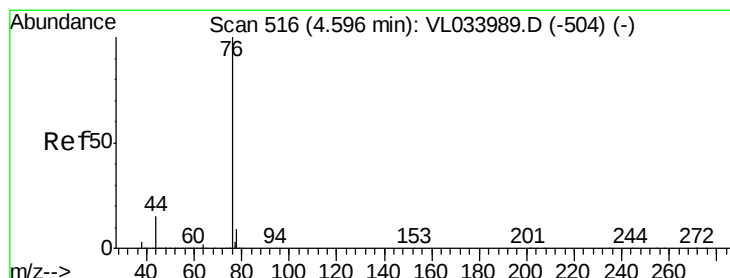
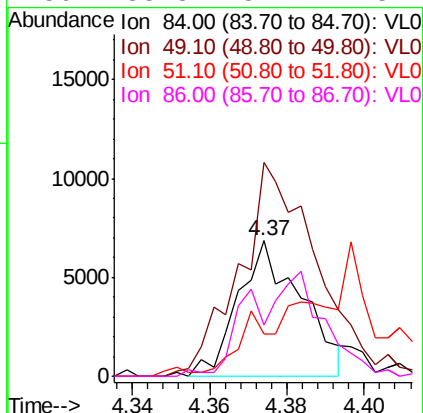
Tgt Ion: 45 Resp: 106401
 Ion Ratio Lower Upper
 45 100
 58 5.5 1.7 2.5#





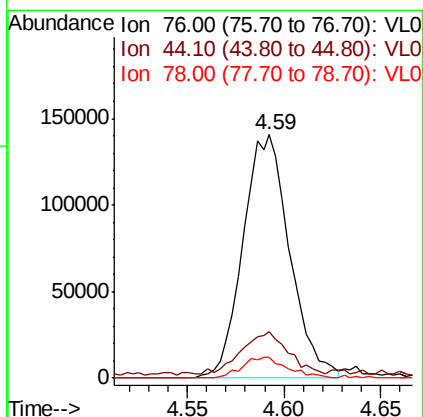
#20
Methvlene Chloride
Concen: 0.105 ppbv
RT: 4.37 min Scan# 447
Delta R.T. -0.01 min
Lab File: VL034041.D
Acq: 17 Jul 2019 21:12

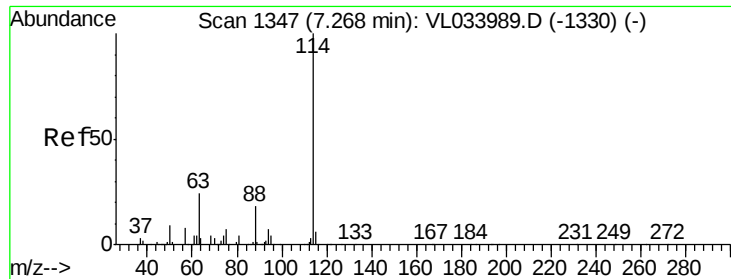
Tot Ion	84	Resp:	7757
Ion	Ratio	Lower	Upper
84	100		
49	148.3	107.6	161.4
51	27.8	35.0	52.6#
86	33.8	52.1	78.1#



#27
Carbon Disulfide
Concen: 1.315 ppbv
RT: 4.59 min Scan# 515
Delta R.T. -0.00 min
Lab File: VL034041.D
Acq: 17 Jul 2019 21:12

Tgt Ion	76	Resp:	236146
Ion	Ratio	Lower	Upper
76	100		
44	18.7	12.6	18.8
78	8.8	7.2	10.8

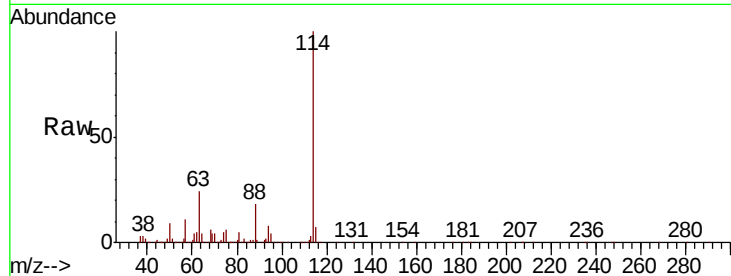




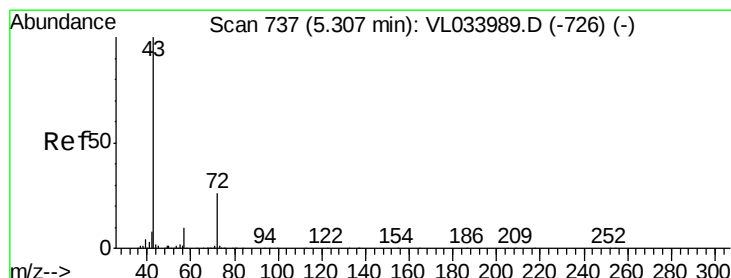
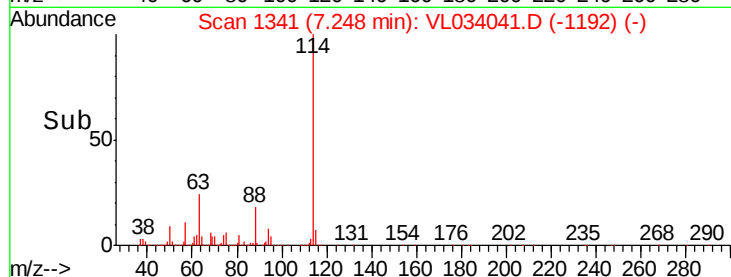
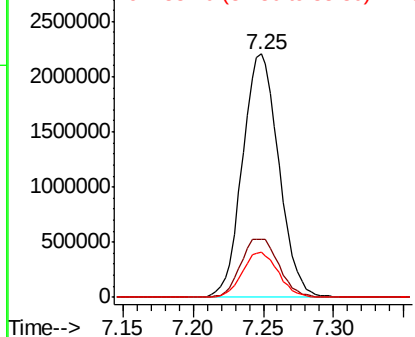
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.25 min Scan# 1341
 Delta R.T. -0.02 min
 Lab File: VL034041.D
 Acq: 17 Jul 2019 21:12

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:114 Resp: 3977733
 Ion Ratio Lower Upper
 114 100
 63 25.3 20.2 30.2
 88 18.3 14.1 21.1

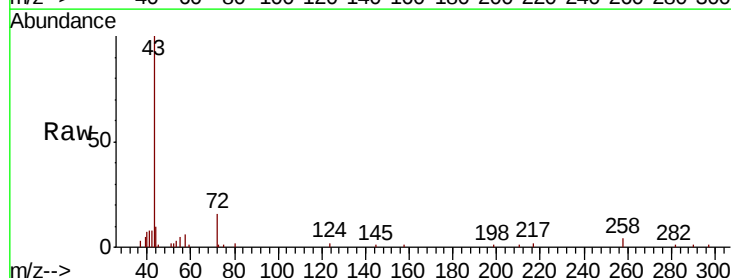


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

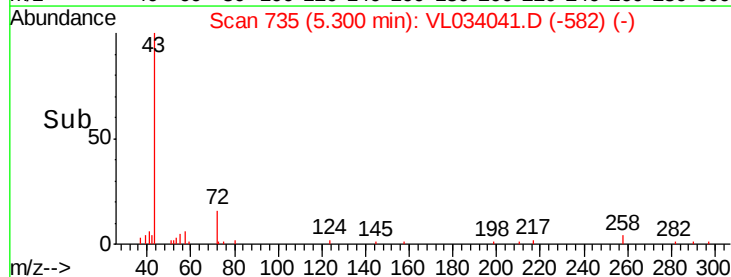
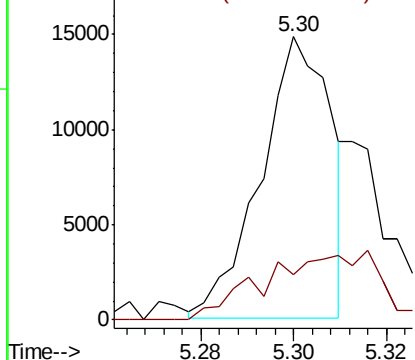


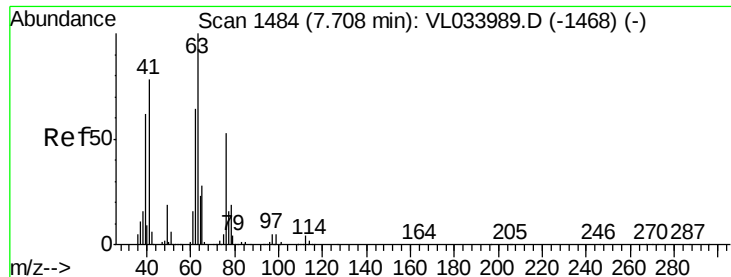
#34
 2-Butanone
 Concen: 0.074 ppbv
 RT: 5.30 min Scan# 735
 Delta R.T. -0.01 min
 Lab File: VL034041.D
 Acq: 17 Jul 2019 21:12

Tgt Ion: 43 Resp: 15576
 Ion Ratio Lower Upper
 43 100
 72 0.0 19.9 29.9#



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#39

1,2-Dichloropropane

Concen: 4.520 ppbv

RT: 7.25 min Scan# 1342

Delta R.T. -0.46 min

Lab File: VL034041.D

Acq: 17 Jul 2019 21:12

Instrument :

MSVOA_L

ClientSampleId :

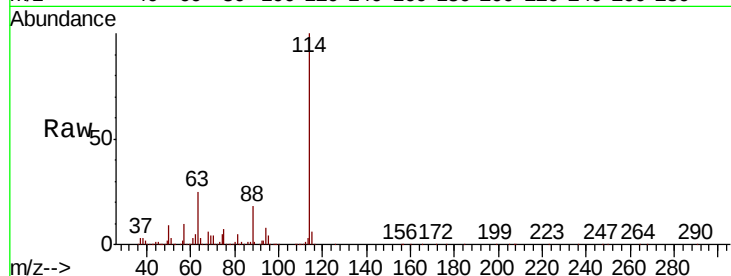
Tot Ion: 63 Resp: 523179

Ion Ratio Lower Upper

63 100

41 0.0 62.3 93.5#

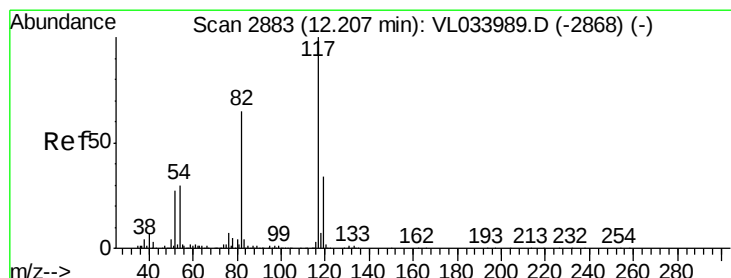
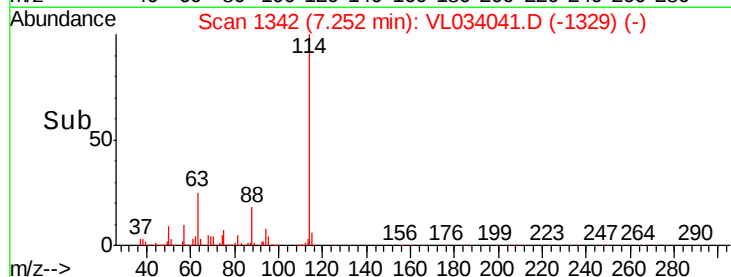
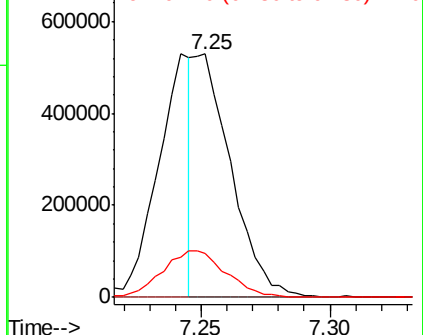
62 18.1 51.4 77.2#



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



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.19 min Scan# 2877

Delta R.T. -0.02 min

Lab File: VL034041.D

Acq: 17 Jul 2019 21:12

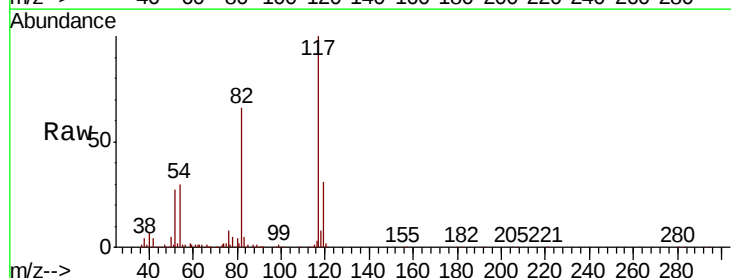
Tgt Ion: 117 Resp: 2912367

Ion Ratio Lower Upper

117 100

82 65.3 50.8 76.2

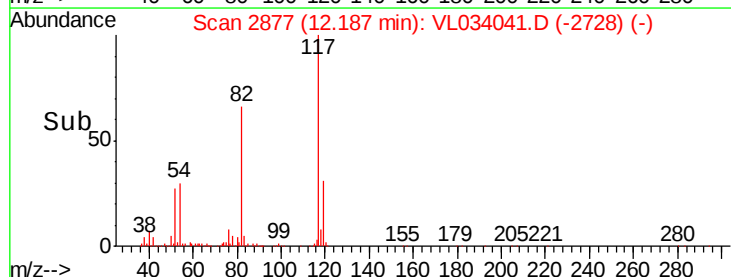
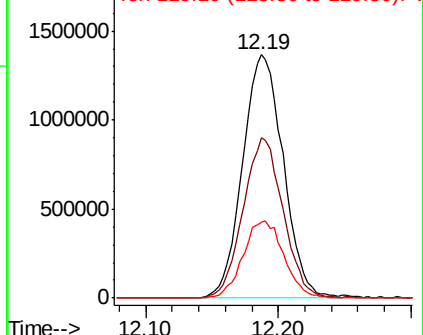
119 32.0 24.0 36.0

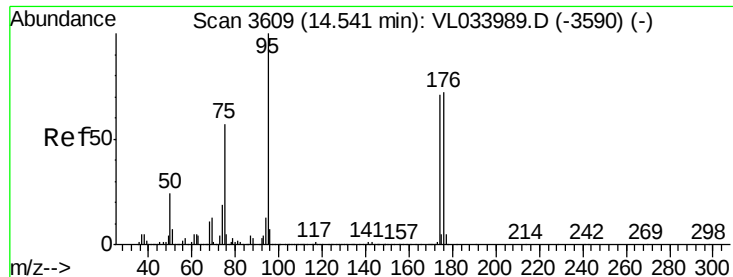


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 9.167 ppbv

RT: 14.52 min Scan# 3604

Delta R.T. -0.02 min

Lab File: VL034041.D

Acq: 17 Jul 2019 21:12

Instrument :

MSVOA_L

ClientSampleId :

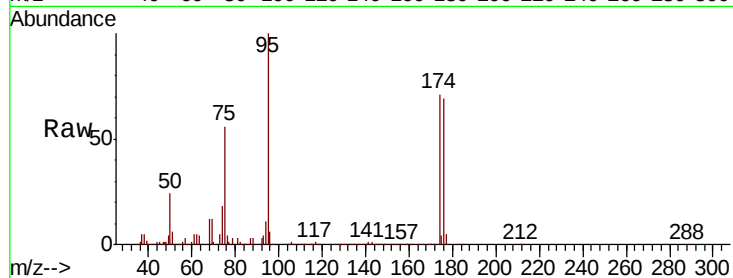
Tot Ion: 95 Resp: 2276958

Ion Ratio Lower Upper

95 100

174 72.0 60.5 90.7

175 5.1 4.0 6.0



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

