

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101619\
 Data File : VL034313.D
 Acq On : 17 Oct 2019 1:19
 Operator : SY/AP
 Sample : K5111-13 0.03 PPB LOD
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Oct 17 05:26:32 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 17 05:12:37 2019
 QLast Update : Thu Oct 17 05:12:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.70	49	1015078	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.23	114	1911074	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.17	117	1923692	10.00	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.51	95	1671889	10.26	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.60%

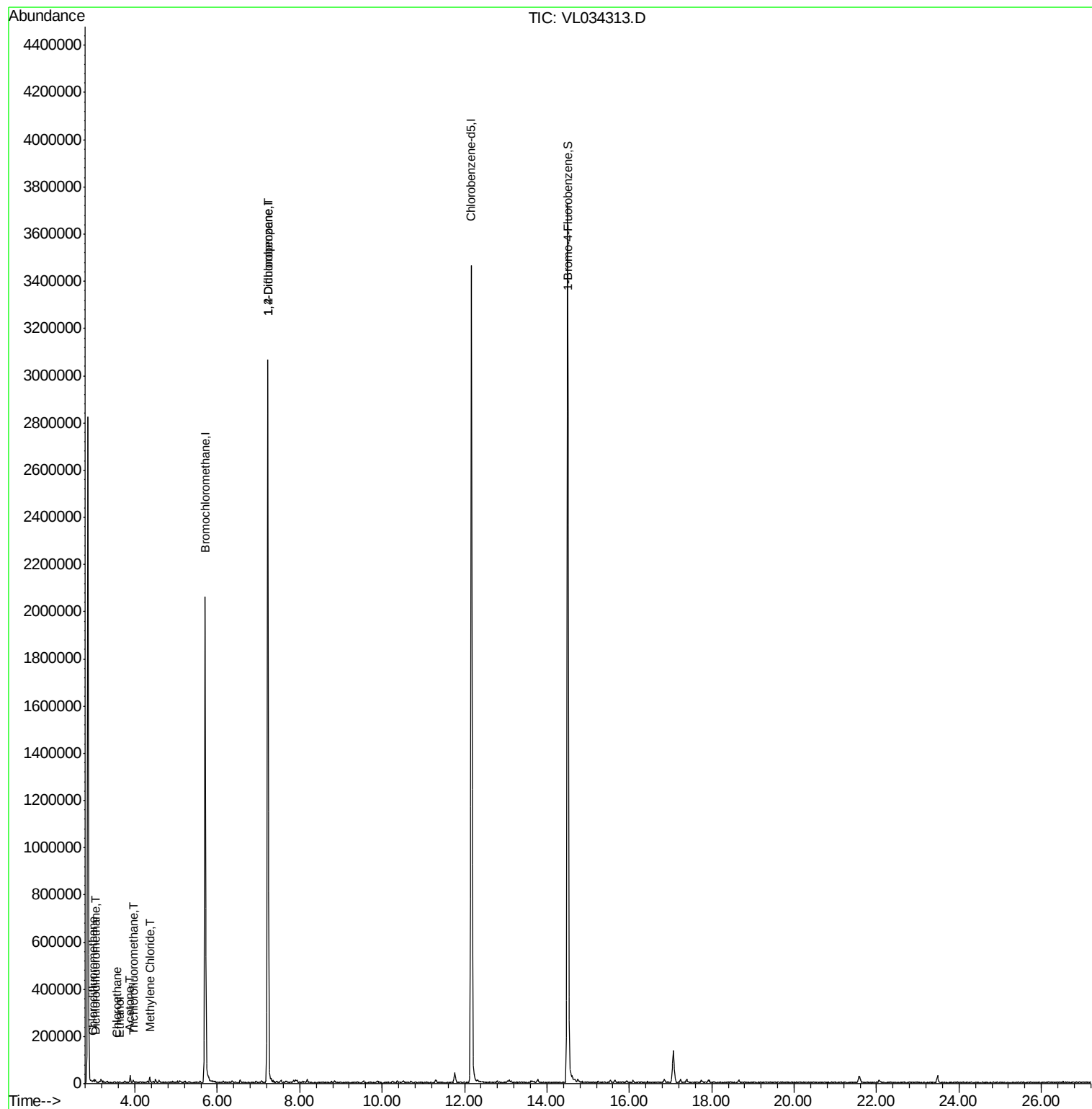
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.04	85	6196	0.035	ppbv 98
3) Chlorodifluoromethane	2.98	51	4258	0.036	ppbv 94
7) Chloroethane	3.56	64	769	0.033	ppbv # 43
11) Trichlorofluoromethane	3.96	101	5939	0.036	ppbv # 57
13) Ethanol	3.63	45	1751	0.148	ppbv # 36
15) Acetone	3.88	43	27474	0.189	ppbv 96
20) Methylene Chloride	4.36	84	3932	0.075	ppbv # 79
39) 1,2-Dichloropropane	7.22	63	591940	7.497	ppbv # 24

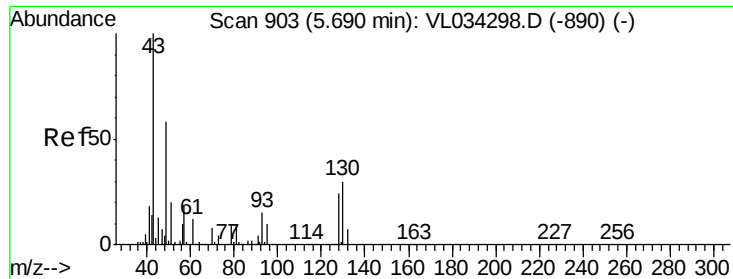
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.70 min Scan# 906

Delta R.T. 0.01 min

Lab File: VL034313.D

Acq: 17 Oct 2019 1:19

Instrument :
MSVOA_L
ClientSampled :

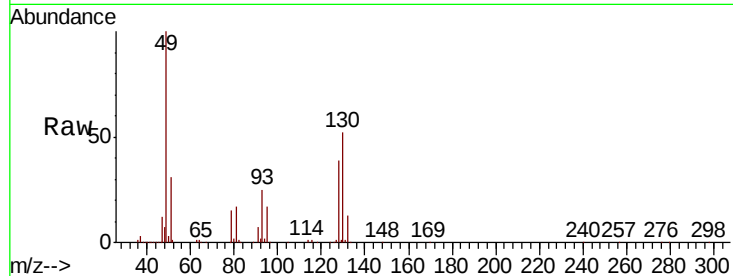
Tot Ion: 49 Resp: 1015078

Ion Ratio Lower Upper

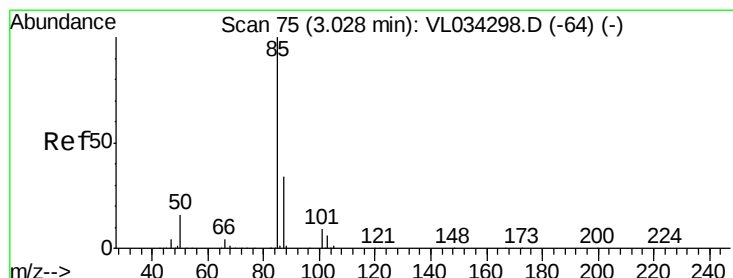
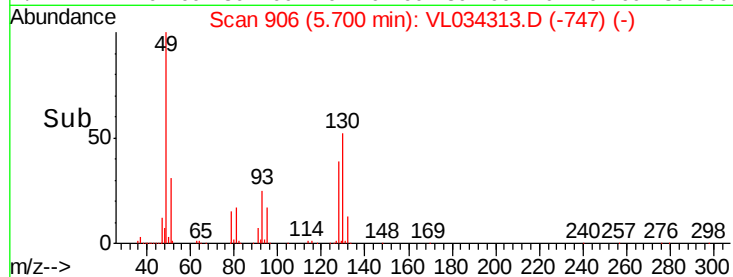
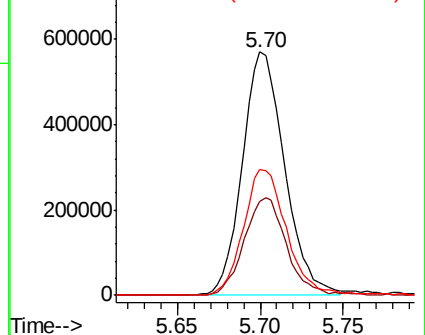
49 100

128 40.8 20.6 61.8

130 53.6 26.2 78.5



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: 0.035 ppbv

RT: 3.04 min Scan# 78

Delta R.T. 0.01 min

Lab File: VL034313.D

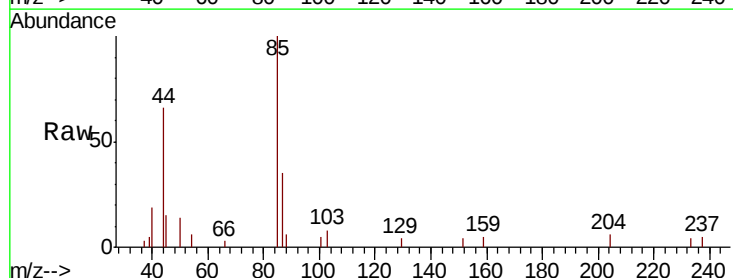
Acq: 17 Oct 2019 1:19

Tgt Ion: 85 Resp: 6196

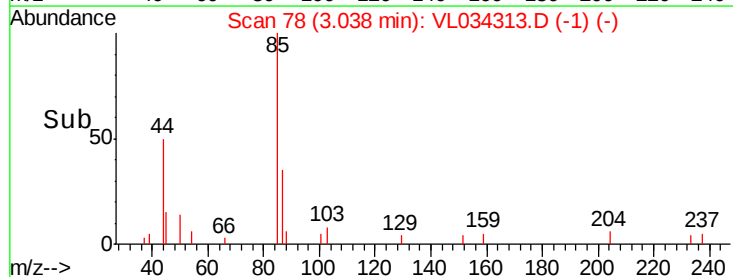
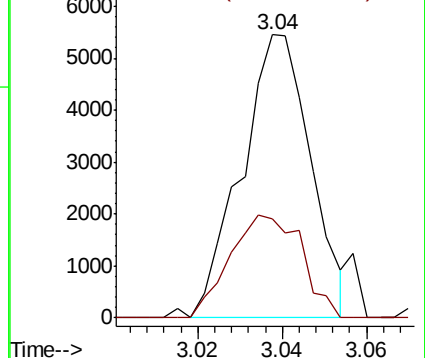
Ion Ratio Lower Upper

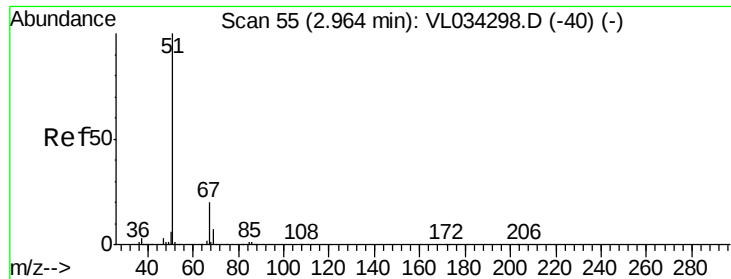
85 100

87 35.2 27.0 40.6



Abundance Ion 85.00 (84.70 to 85.70): VL0
Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.036 ppbv

RT: 2.98 min Scan# 60

Delta R.T. 0.02 min

Lab File: VL034313.D

Acq: 17 Oct 2019 1:19

Instrument :

MSVOA_L

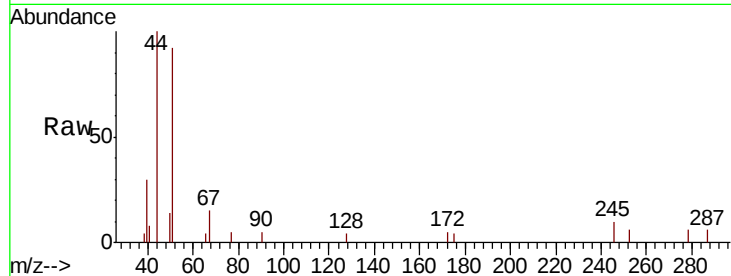
ClientSampleId :

Tot Ion: 51 Resp: 4258

Ion Ratio Lower Upper

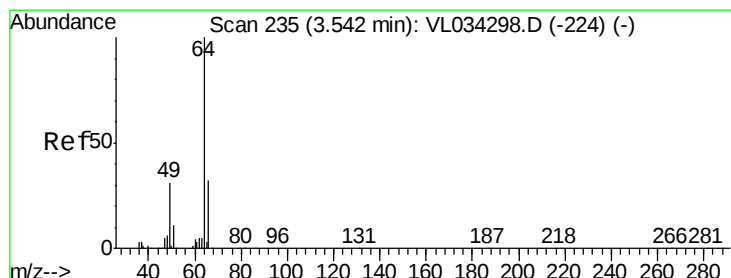
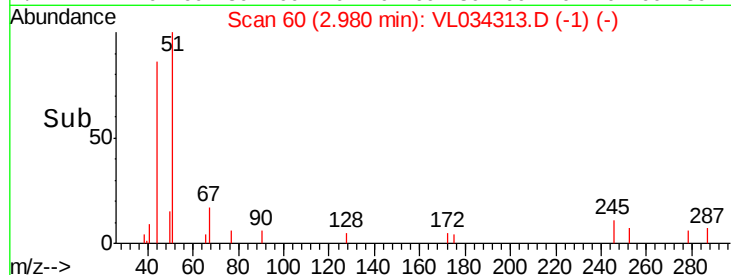
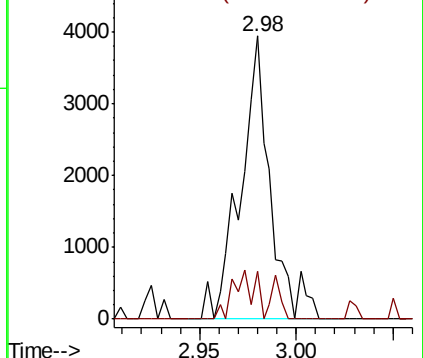
51 100

67 16.9 15.8 23.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#7

Chloroethane

Concen: 0.033 ppbv

RT: 3.56 min Scan# 240

Delta R.T. 0.02 min

Lab File: VL034313.D

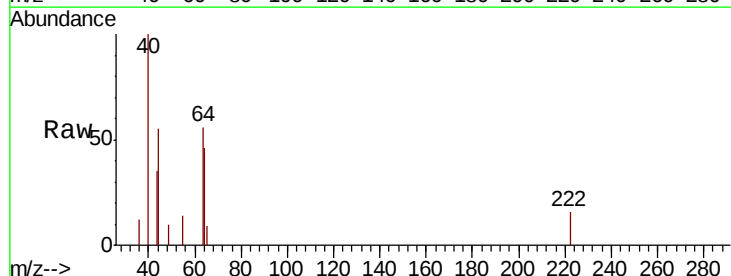
Acq: 17 Oct 2019 1:19

Tgt Ion: 64 Resp: 769

Ion Ratio Lower Upper

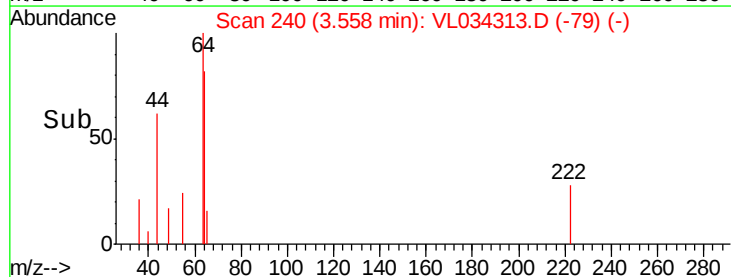
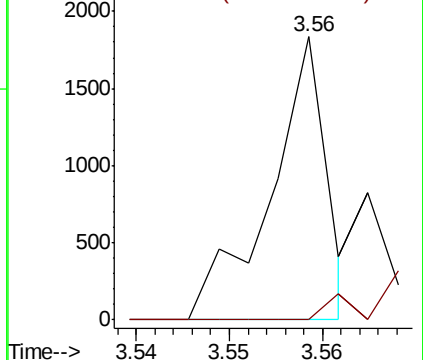
64 100

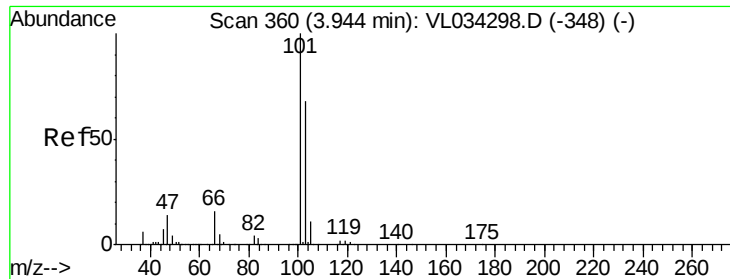
66 0.0 25.4 38.0#



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

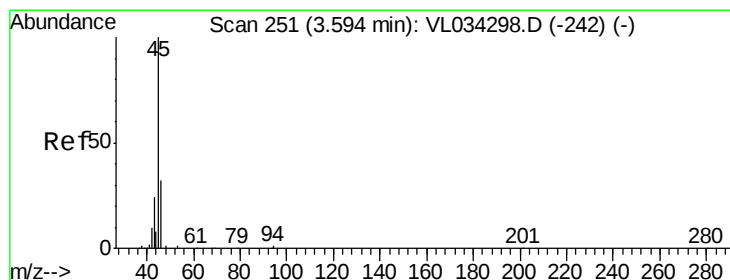
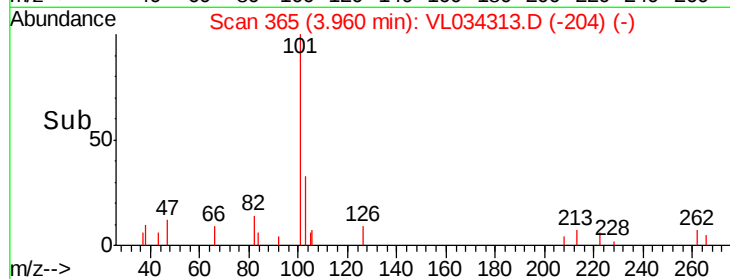
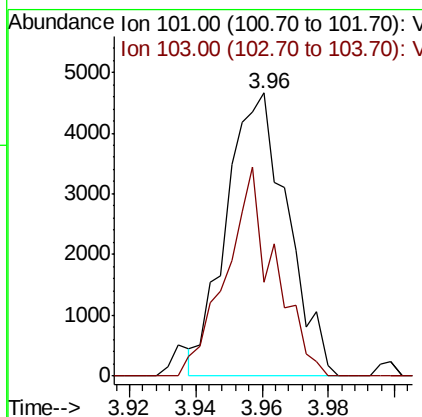
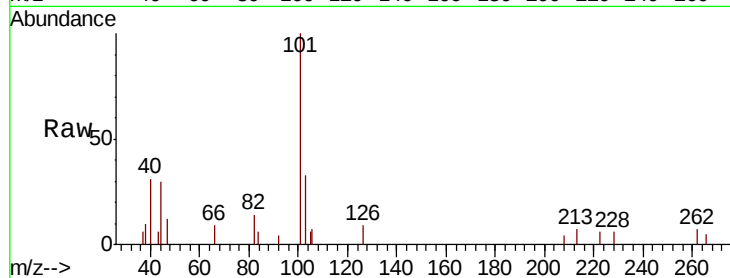




#11
 Trichlorofluoromethane
 Concen: 0.036 ppbv
 RT: 3.96 min Scan# 365
 Delta R.T. 0.02 min
 Lab File: VL034313.D
 Acq: 17 Oct 2019 1:19

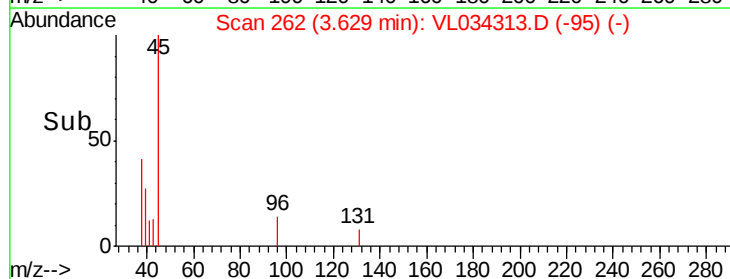
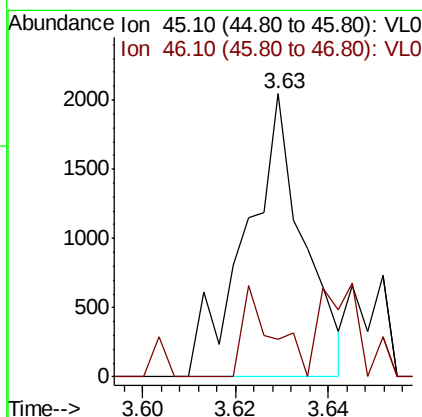
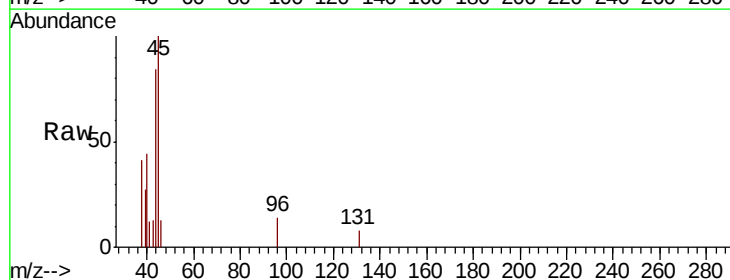
Instrument :
 MSVOA_L
 ClientSampled :

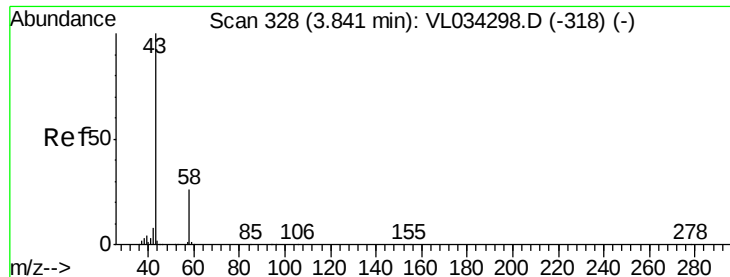
Tot Ion:101 Resp: 5939
 Ion Ratio Lower Upper
 101 100
 103 33.0 54.5 81.7#



#13
 Ethanol
 Concen: 0.148 ppbv
 RT: 3.63 min Scan# 262
 Delta R.T. 0.04 min
 Lab File: VL034313.D
 Acq: 17 Oct 2019 1:19

Tgt Ion: 45 Resp: 1751
 Ion Ratio Lower Upper
 45 100
 46 0.0 15.8 63.2#





#15

Acetone

Concen: 0.189 ppbv

RT: 3.88 min Scan# 341

Delta R.T. 0.04 min

Lab File: VL034313.D

Acq: 17 Oct 2019 1:19

Instrument :

MSVOA_L

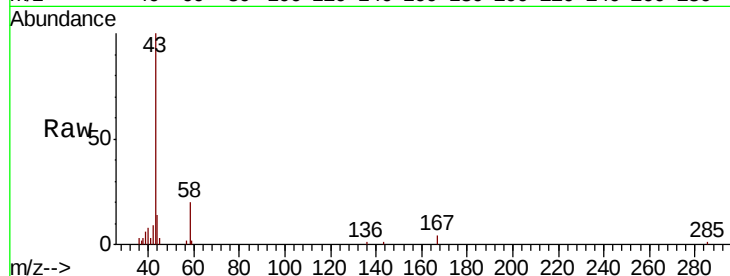
ClientSampleId :

Tot Ion: 43 Resp: 27474

Ion Ratio Lower Upper

43 100

58 27.7 20.4 30.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.88

20000

15000

10000

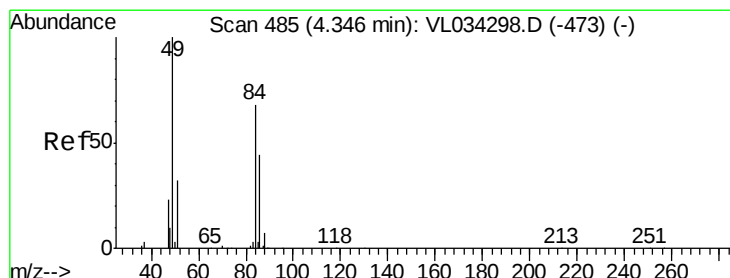
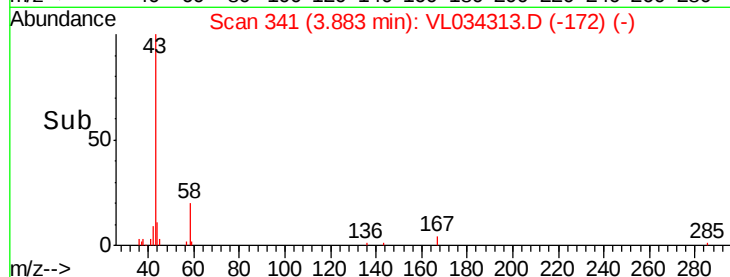
5000

0

Time-->

3.85

3.90



#20

Methylene Chloride

Concen: 0.075 ppbv

RT: 4.36 min Scan# 489

Delta R.T. 0.01 min

Lab File: VL034313.D

Acq: 17 Oct 2019 1:19

Tgt Ion: 84 Resp: 3932

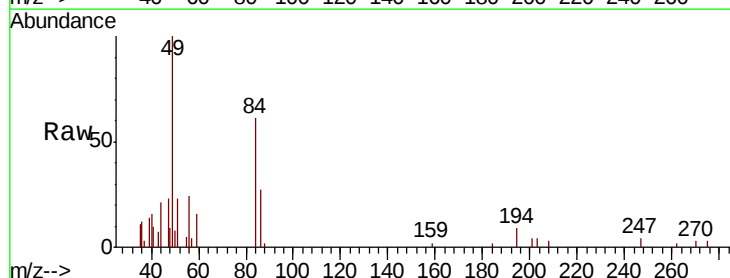
Ion Ratio Lower Upper

84 100

49 164.2 118.5 177.7

51 20.9 38.8 58.2#

86 45.1 51.7 77.5#



Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

10000

8000

6000

4000

2000

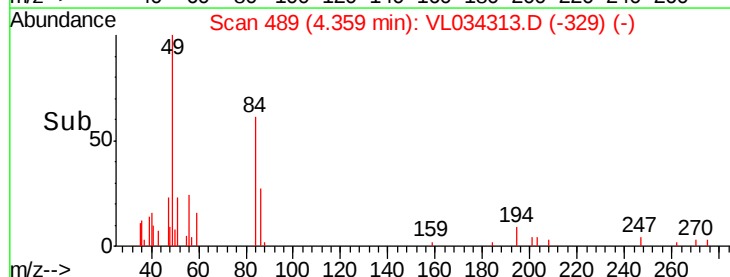
0

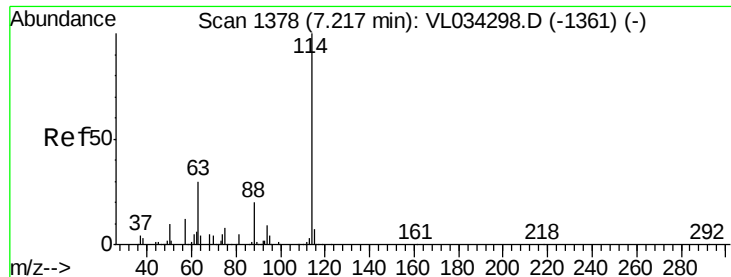
Time-->

4.32

4.34

4.36

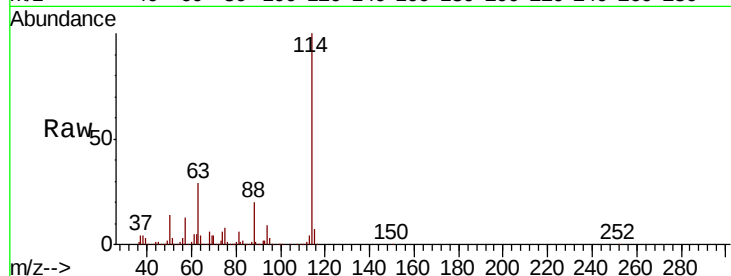




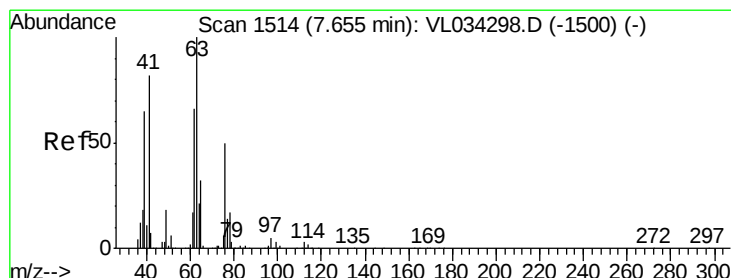
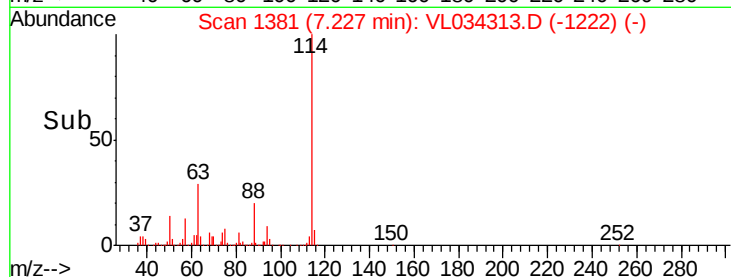
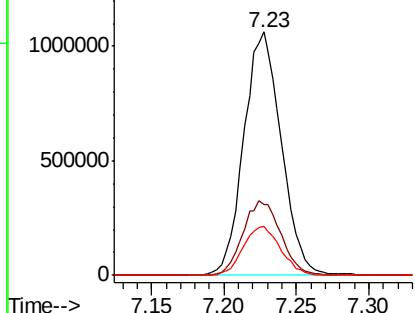
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.23 min Scan# 1381
 Delta R.T. 0.01 min
 Lab File: VL034313.D
 Acq: 17 Oct 2019 1:19

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:114 Resp: 1911074
 Ion Ratio Lower Upper
 114 100
 63 31.1 25.2 37.8
 88 20.2 16.0 24.0

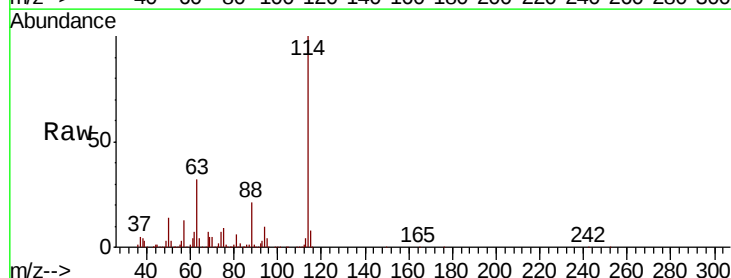


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

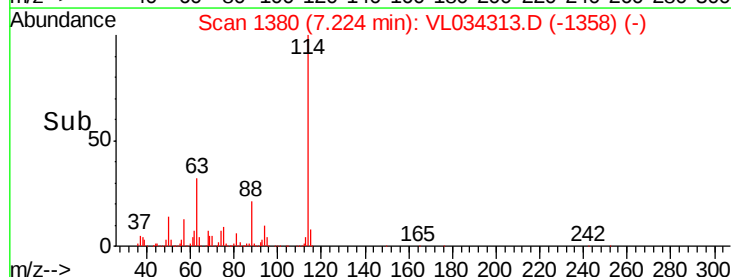
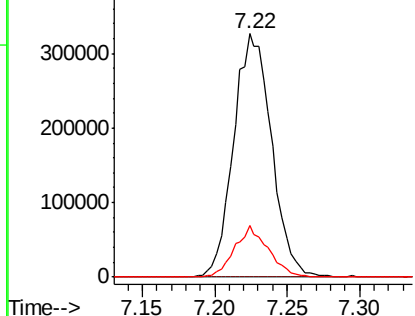


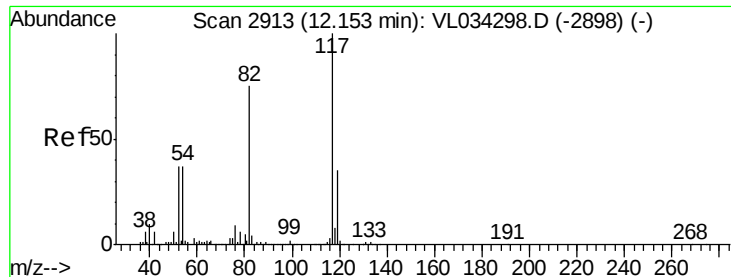
#39
 1,2-Dichloropropane
 Concen: 7.497 ppbv
 RT: 7.22 min Scan# 1380
 Delta R.T. -0.43 min
 Lab File: VL034313.D
 Acq: 17 Oct 2019 1:19

Tgt Ion: 63 Resp: 591940
 Ion Ratio Lower Upper
 63 100
 41 0.0 65.6 98.4#
 62 20.9 53.0 79.6#



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

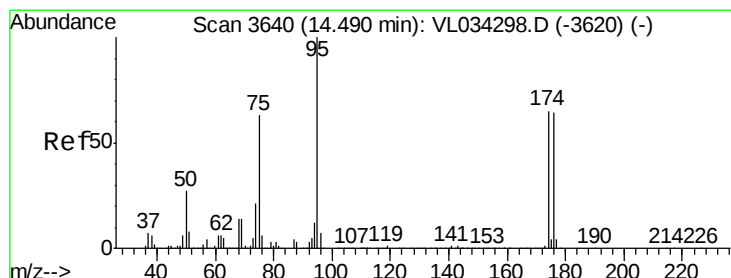
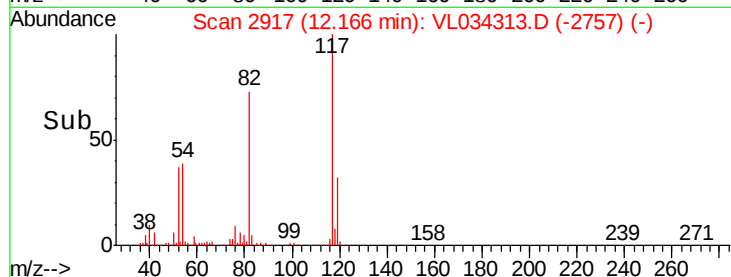
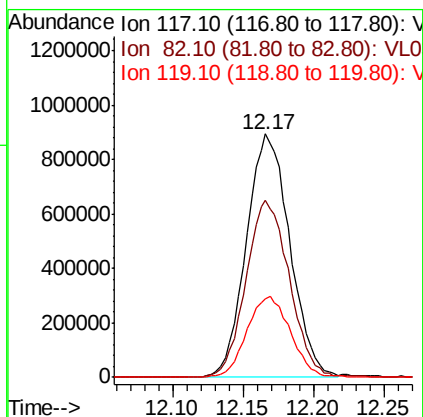
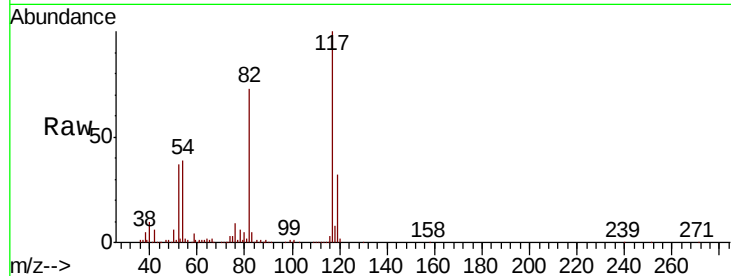




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.17 min Scan# 2917
Delta R.T. 0.01 min
Lab File: VL034313.D
Acq: 17 Oct 2019 1:19

Instrument :
MSVOA_L
ClientSampled :

Tot Ion:117 Resp: 1923692
Ion Ratio Lower Upper
117 100
82 73.2 55.5 83.3
119 33.5 26.5 39.7



#68
1-Bromo-4-Fluorobenzene
Concen: 10.262 ppbv
RT: 14.51 min Scan# 3645
Delta R.T. 0.02 min
Lab File: VL034313.D
Acq: 17 Oct 2019 1:19

Tgt Ion: 95 Resp: 1671889
Ion Ratio Lower Upper
95 100
174 64.5 52.6 78.8
175 4.5 3.8 5.6

