

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031620\
 Data File : VL034911.D
 Acq On : 17 Mar 2020 4:32
 Operator : SY/AP
 Sample : L1924-08DL2 40X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 FD-01DL2

Quant Time: Mar 17 07:18:49 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 09 16:42:53 2020
 QLast Update : Mon Mar 09 16:42:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	810509	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	1768361	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	1714673	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	1402479	10.49	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.90%

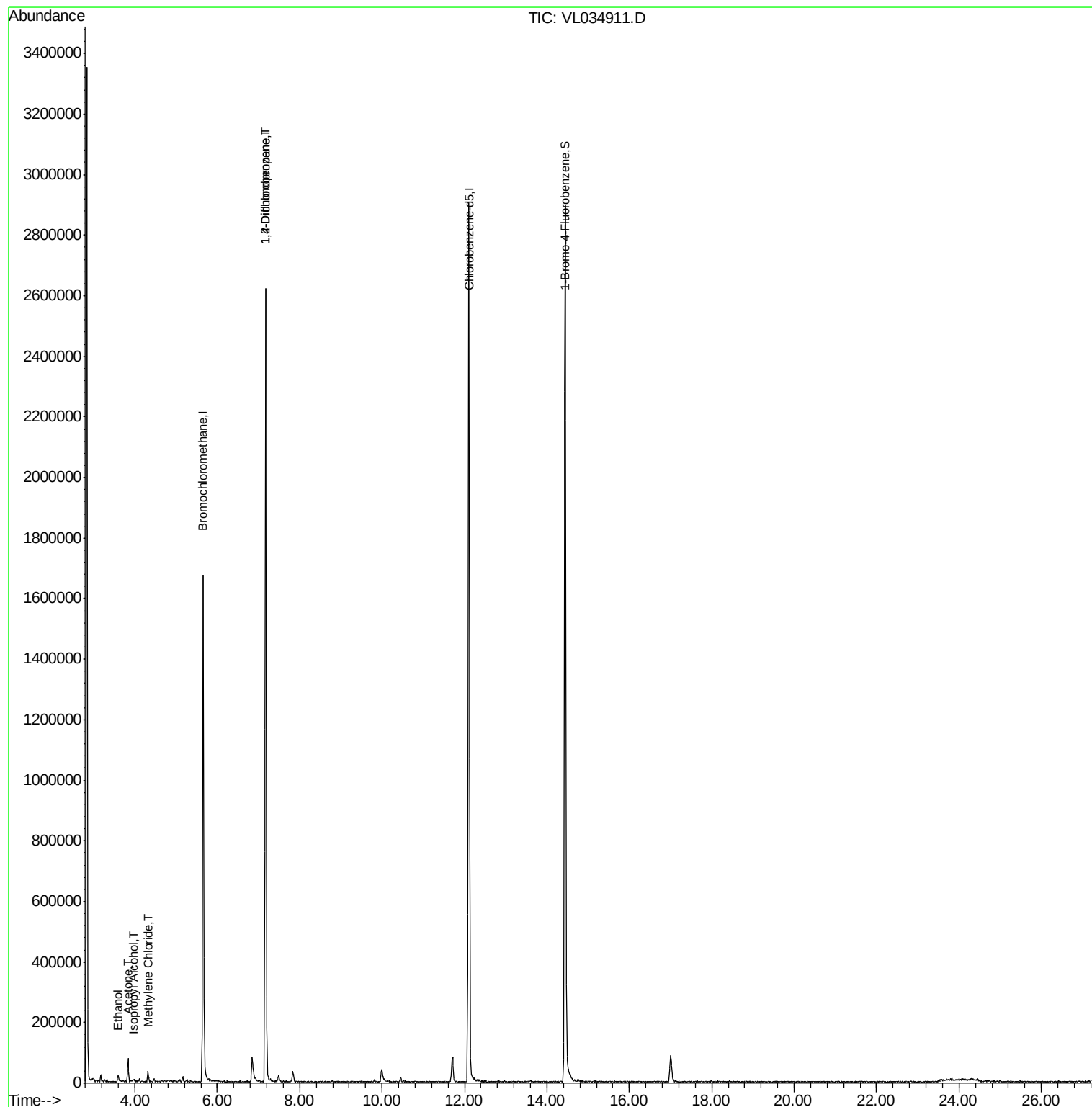
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
13) Ethanol	3.57	45	3477	0.265	ppbv #	35
15) Acetone	3.83	43	70665	0.673	ppbv	95
19) Isopropyl Alcohol	3.96	45	2441	0.037	ppbv #	87
20) Methylene Chloride	4.32	84	5584	0.168	ppbv #	64
39) 1,2-Dichloropropane	7.17	63	481229	7.706	ppbv #	23

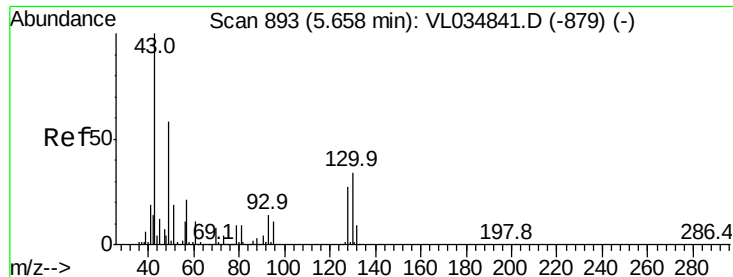
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 891

Delta R.T. -0.01 min

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Instrument :

MSVOA_L

ClientSampleId :

FD-01DL2

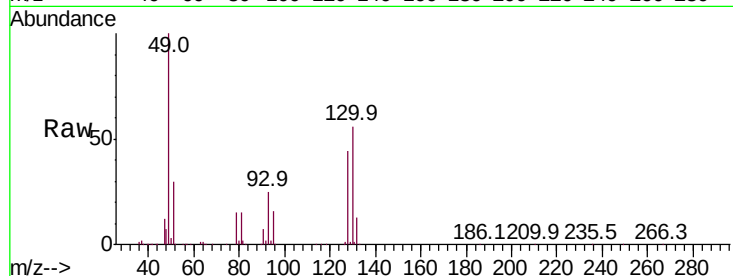
Tot Ion: 49 Resp: 810509

Ion Ratio Lower Upper

49 100

128 44.9 23.4 70.3

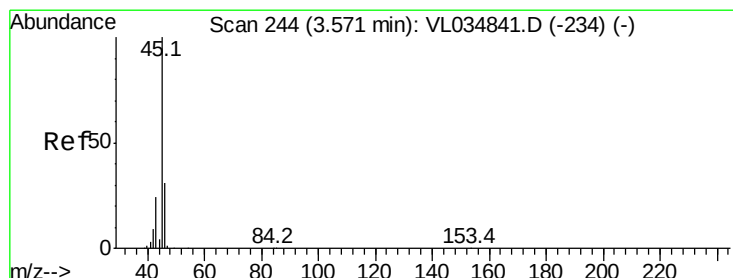
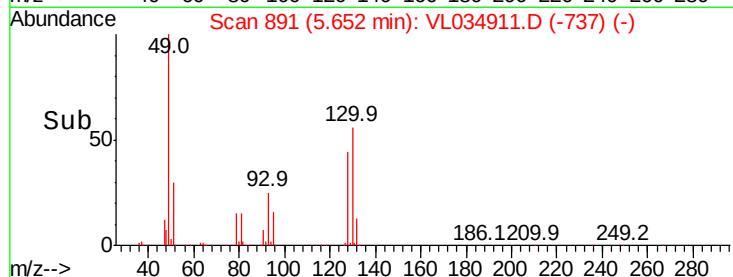
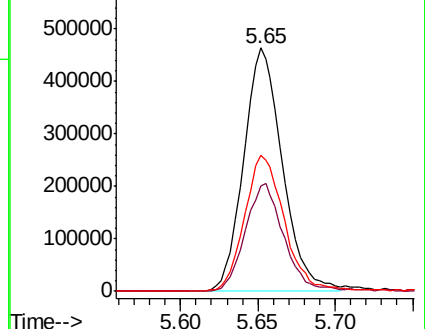
130 58.0 30.0 90.0



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



#13

Ethanol

Concen: 0.265 ppbv

RT: 3.57 min Scan# 245

Delta R.T. 0.00 min

Lab File: VL034911.D

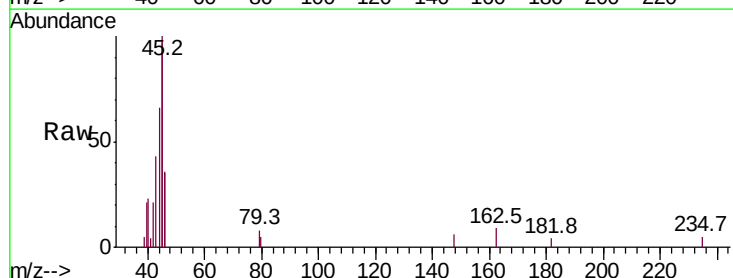
Acq: 17 Mar 2020 4:32

Tgt Ion: 45 Resp: 3477

Ion Ratio Lower Upper

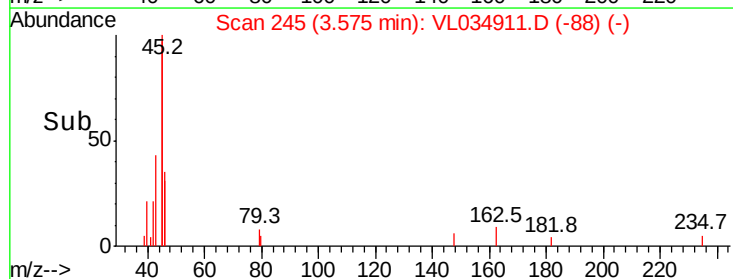
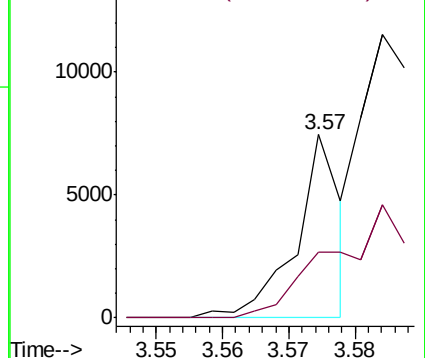
45 100

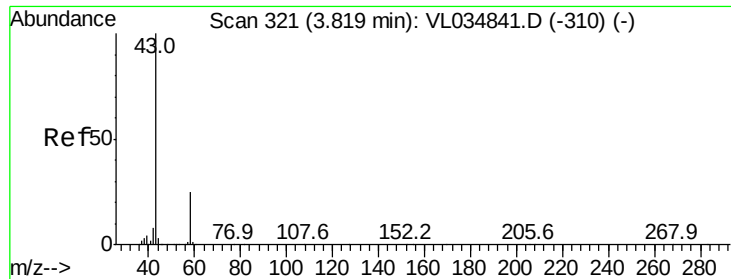
46 0.0 16.0 64.0#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 0.673 ppbv

RT: 3.83 min Scan# 325

Delta R.T. 0.01 min

Lab File: VL034911.D

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Instrument :

MSVOA_L

ClientSampleId :

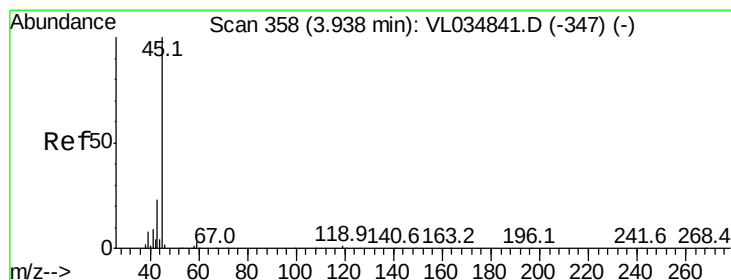
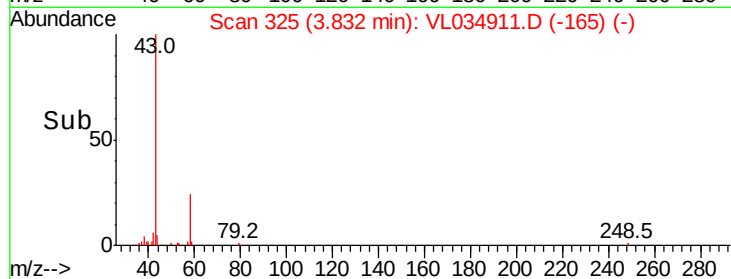
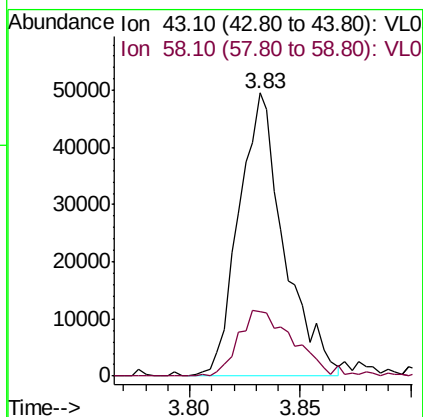
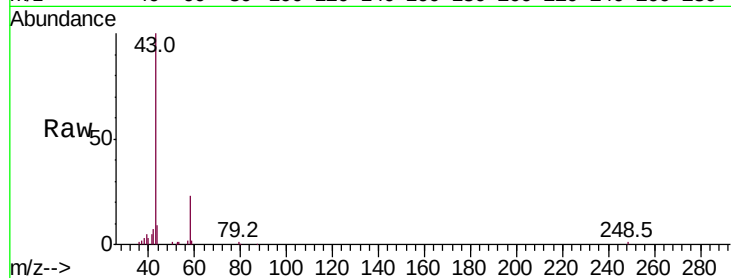
FD-01DL2

Tot Ion: 43 Resp: 70665

Ion Ratio Lower Upper

43 100

58 29.0 21.0 31.6



#19

Isopropyl Alcohol

Concen: 0.037 ppbv

RT: 3.96 min Scan# 366

Delta R.T. 0.03 min

Lab File: VL034911.D

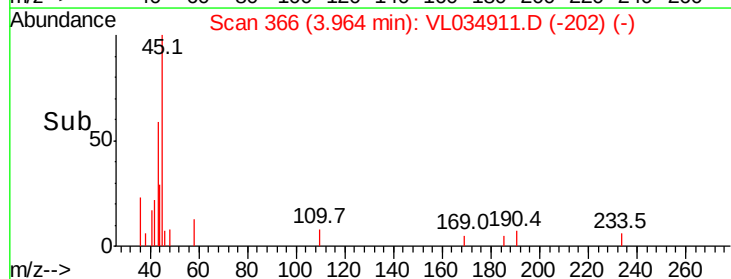
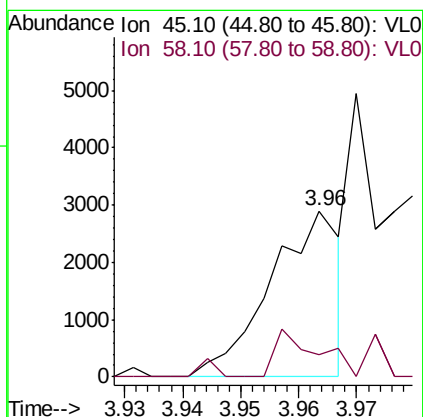
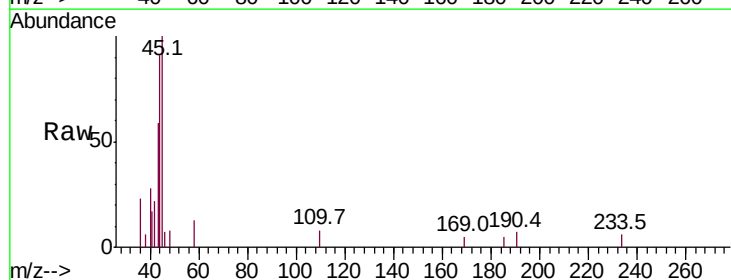
Acq: 17 Mar 2020 4:32

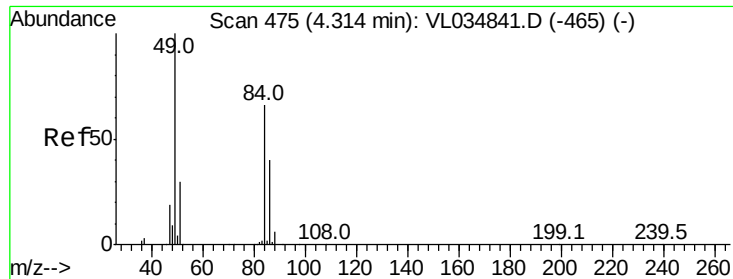
Tgt Ion: 45 Resp: 2441

Ion Ratio Lower Upper

45 100

58 30.5 30.5 45.7#

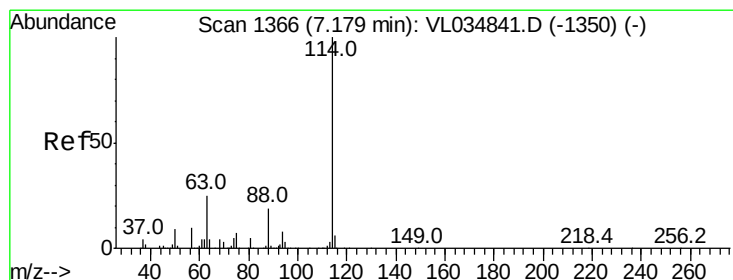
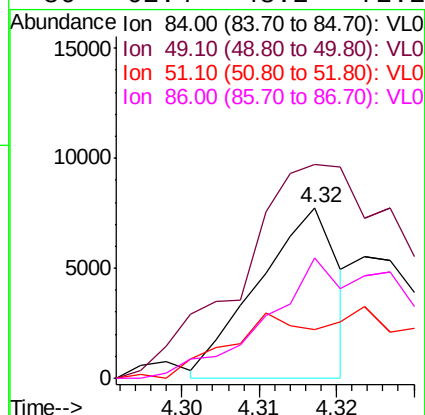
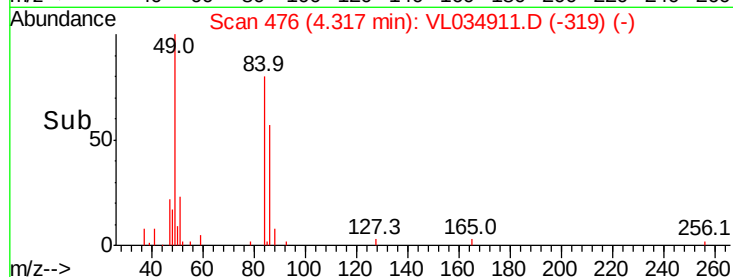
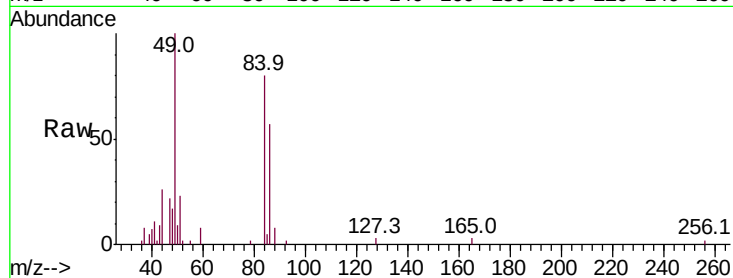




#20
Methylene Chloride
Concen: 0.168 ppbv
RT: 4.32 min Scan# 476
Delta R.T. 0.00 min
Lab File: VL034911.D
Acq: 17 Mar 2020 4:32

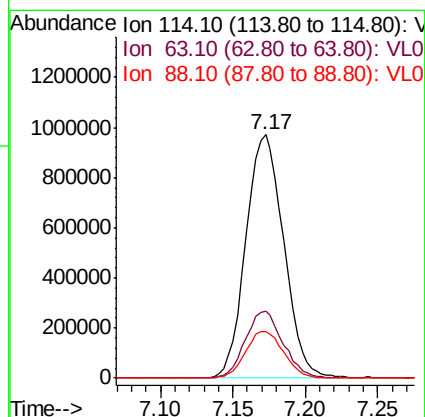
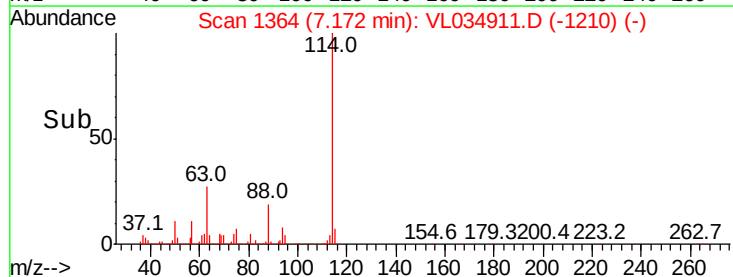
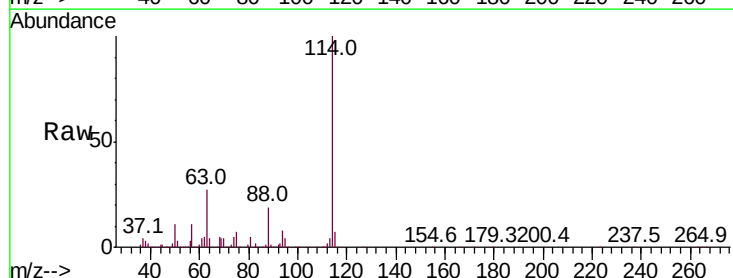
Instrument :
MSVOA_L
ClientSampleId :
FD-01DL2

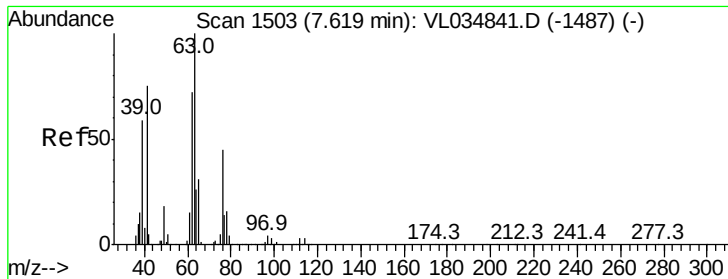
Tot Ion: 84 Resp: 5584
Ion Ratio Lower Upper
84 100
49 91.5 121.5 182.3#
51 18.5 36.6 55.0#
86 62.4 48.2 72.2



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1364
Delta R.T. -0.01 min
Lab File: VL034911.D
Acq: 17 Mar 2020 4:32

Tgt Ion:114 Resp: 1768361
Ion Ratio Lower Upper
114 100
63 27.5 20.6 31.0
88 19.5 15.0 22.6





#39

1,2-Dichloropropane

Concen: 7.706 ppbv

RT: 7.17 min Scan# 1364

Delta R.T. -0.45 min

Lab File: VL034911.D

Acq: 17 Mar 2020 4:32

Instrument :

MSVOA_L

ClientSampleId :

FD-01DL2

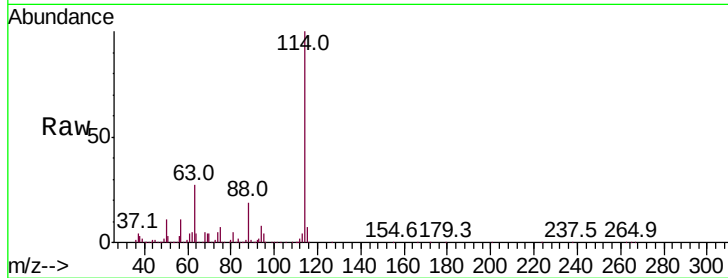
Tot Ion: 63 Resp: 481229

Ion Ratio Lower Upper

63 100

41 0.1 59.8 89.8#

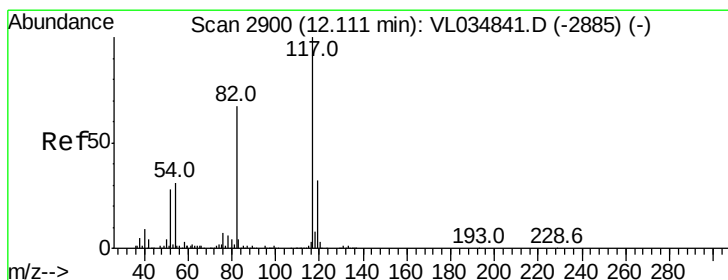
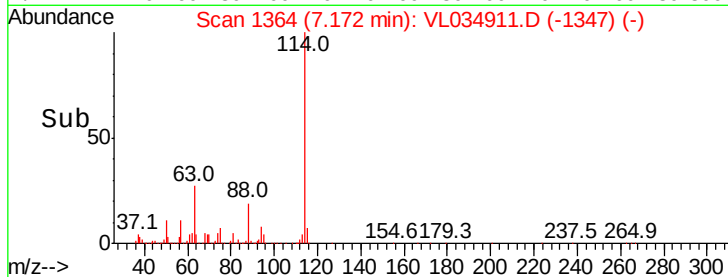
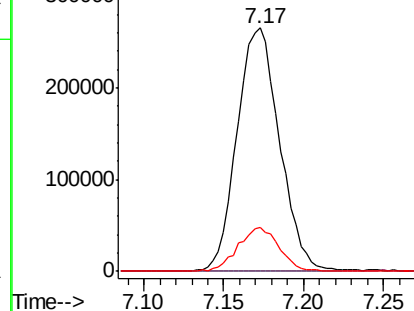
62 18.0 57.6 86.4#



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: 12.10 min Scan# 2898

Delta R.T. -0.01 min

Lab File: VL034911.D

Acq: 17 Mar 2020 4:32

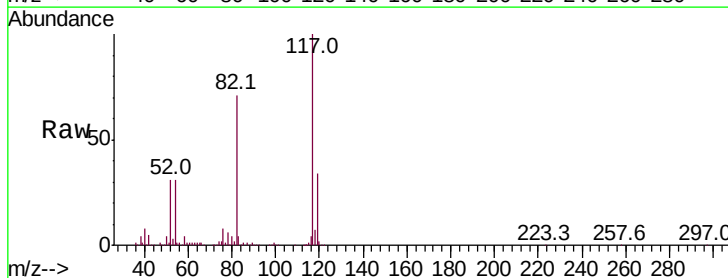
Tgt Ion: 117 Resp: 1714673

Ion Ratio Lower Upper

117 100

82 69.8 51.1 76.7

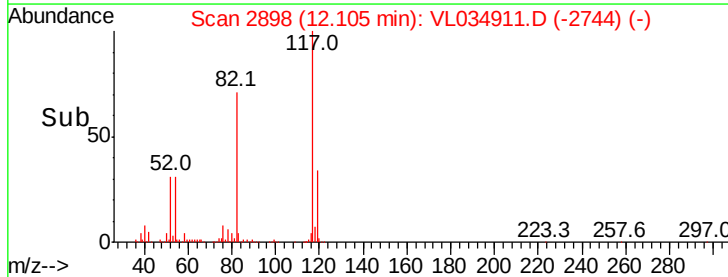
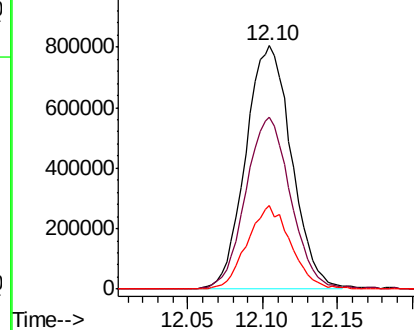
119 32.8 27.3 40.9

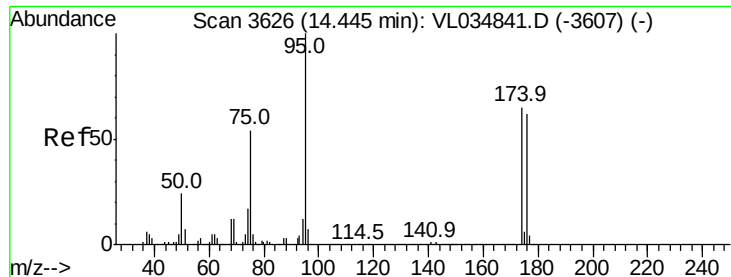


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 10.488 ppbv

RT: 14.44 min Scan# 3624

Delta R.T. -0.01 min

Lab File: VL034911.D

Acq: 17 Mar 2020 4:32

Instrument :

MSVOA_L

ClientSampleId :

FD-01DL2

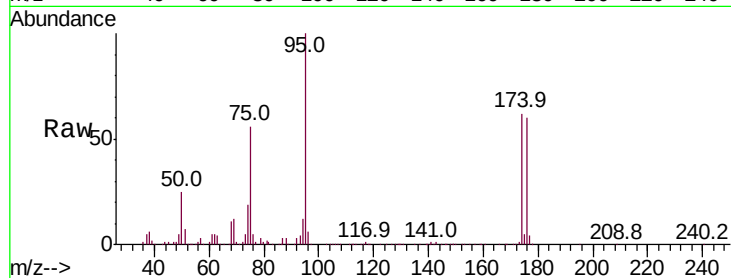
Tot Ion: 95 Resp: 1402479

Ion Ratio Lower Upper

95 100

174 63.2 55.2 82.8

175 4.5 4.3 6.5



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

