

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL110520\
 Data File : VL035888.D
 Acq On : 6 Nov 2020 10:03
 Operator : SY/AP
 Sample : VL4618-03DL2 40X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2DL

Quant Time: Nov 06 23:44:23 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 04 02:40:06 2020
 QLast Update : Wed Nov 04 02:40:06 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	908633	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.15	114	3304397	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.06	117	3103526	10.00	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	2174296	9.86	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.60%

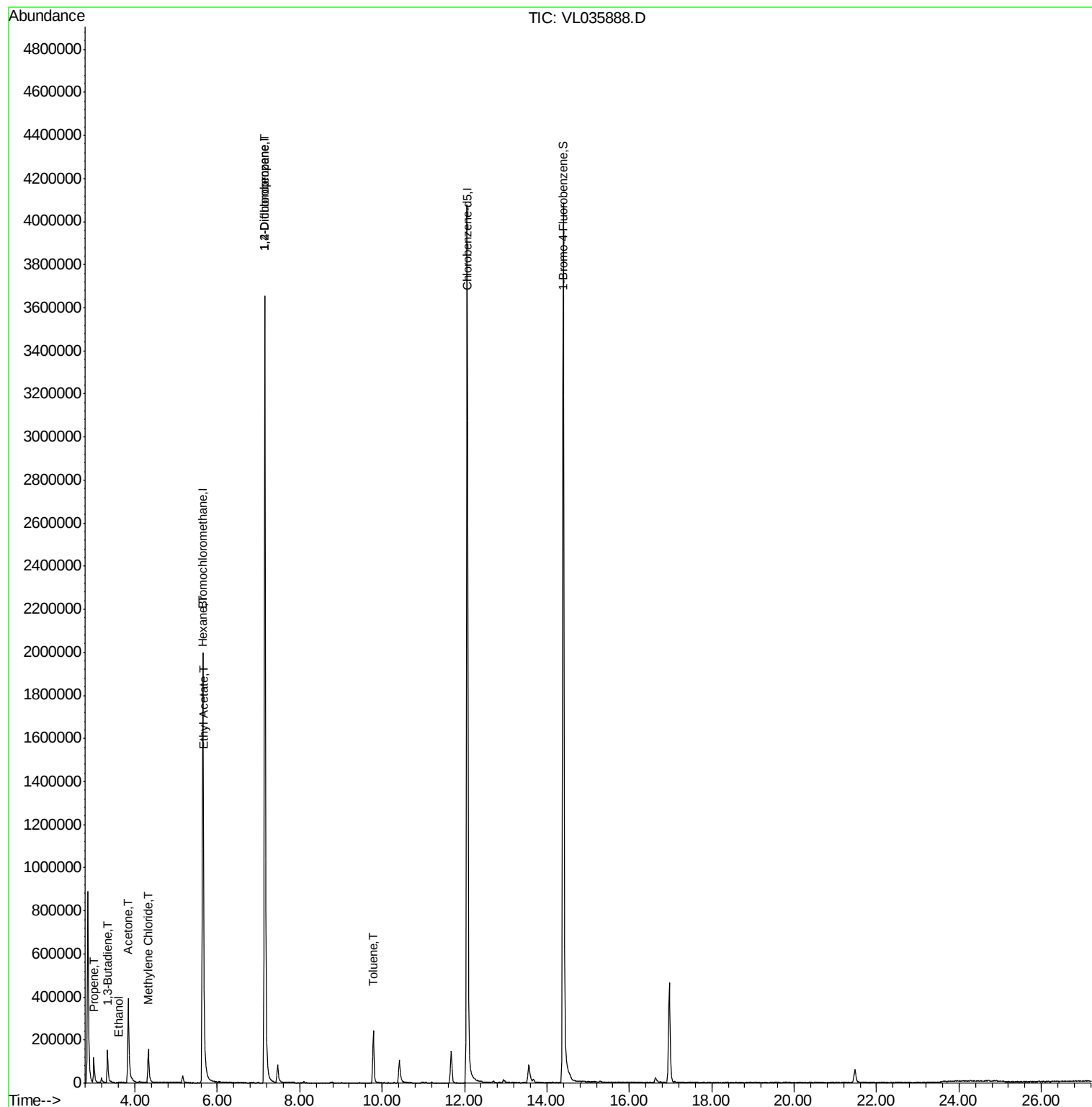
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.00	41	35214	0.884	ppbv #	76
13) Ethanol	3.60	45	988	0.114	ppbv #	35
15) Acetone	3.84	43	527916	5.435	ppbv	98
16) 1,3-Butadiene	3.34	39	24121	0.577	ppbv #	1
20) Methylene Chloride	4.32	84	83254	1.217	ppbv	99
25) Ethyl Acetate	5.67	43	12954	0.068	ppbv #	74
26) Hexane	5.66	57	12363	0.117	ppbv #	1
39) 1,2-Dichloropropane	7.15	63	647183	7.825	ppbv #	31
53) Toluene	9.78	91	220762	0.745	ppbv	98

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
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QLast Update : Wed Nov 04 02:40:06 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 889

Delta R.T. -0.02 min

Lab File: VL035888.D

Acq: 6 Nov 2020 10:03

Instrument :

MSVOA_L

ClientSampleId :

IA-2DL

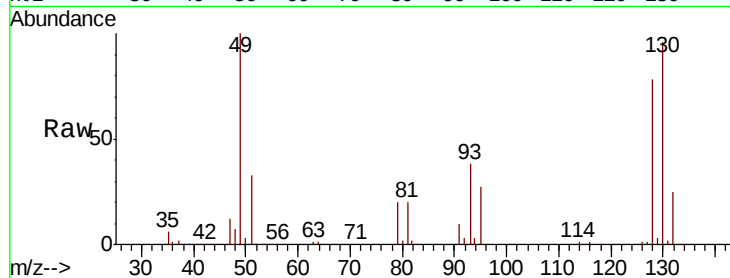
Tot Ion: 49 Resp: 908633

Ion Ratio Lower Upper

49 100

128 79.6 41.5 124.6

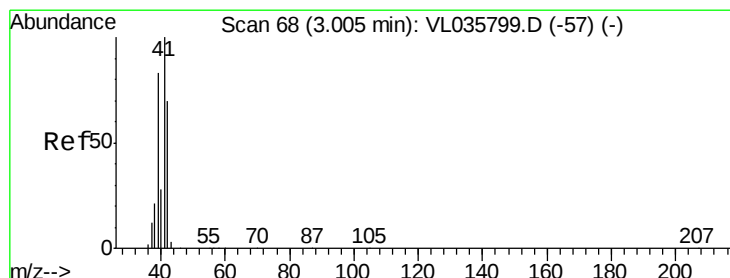
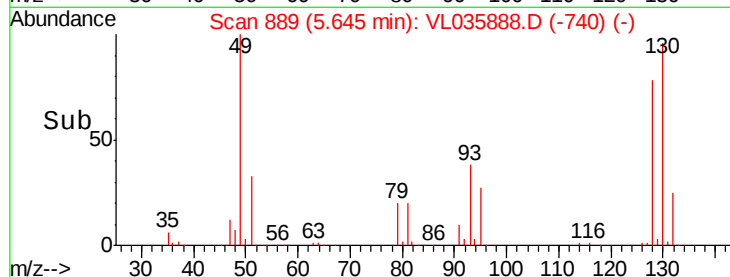
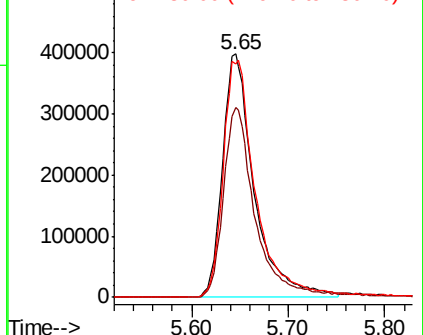
130 101.5 53.7 161.1



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



#9

Propene

Concen: 0.884 ppbv

RT: 3.00 min Scan# 67

Delta R.T. -0.00 min

Lab File: VL035888.D

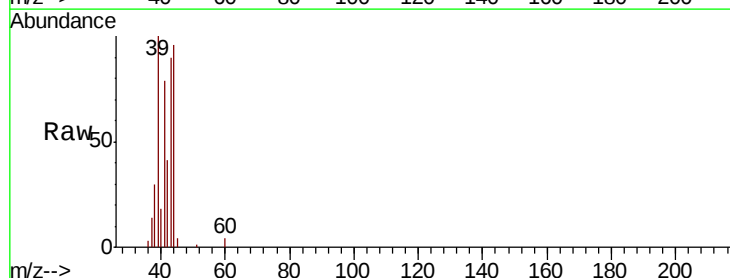
Acq: 6 Nov 2020 10:03

Tgt Ion: 41 Resp: 35214

Ion Ratio Lower Upper

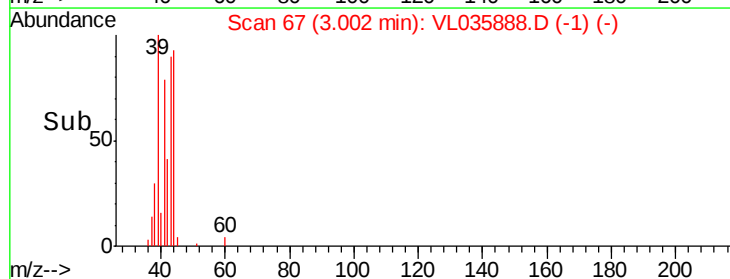
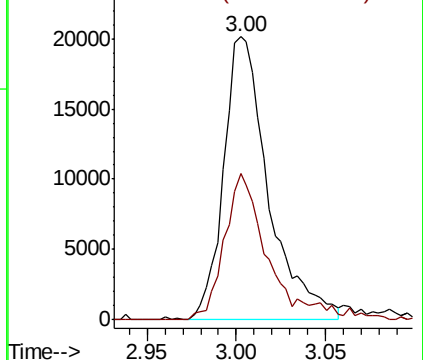
41 100

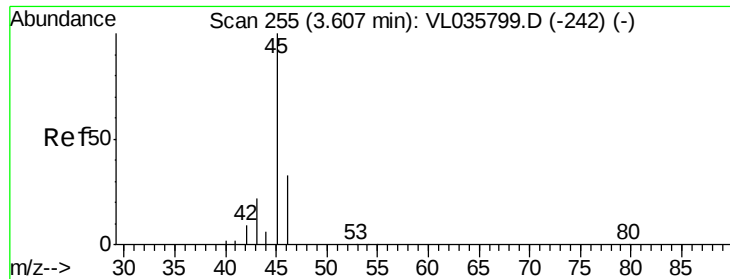
42 50.9 56.2 84.4#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#13

Ethanol

Concen: 0.114 ppbv

RT: 3.60 min Scan# 253

Delta R.T. -0.01 min

Lab File: VL035888.D

Acq: 6 Nov 2020 10:03

Instrument :

MSVOA_L

ClientSampleId :

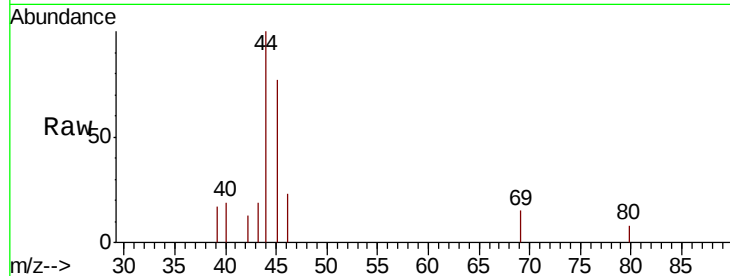
IA-2DL

Tot Ion: 45 Resp: 988

Ion Ratio Lower Upper

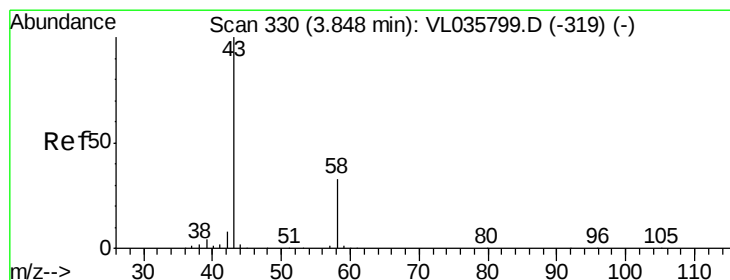
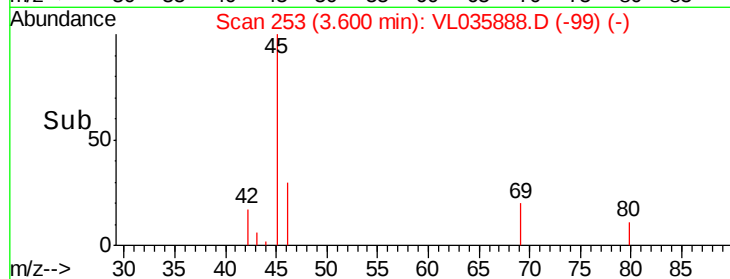
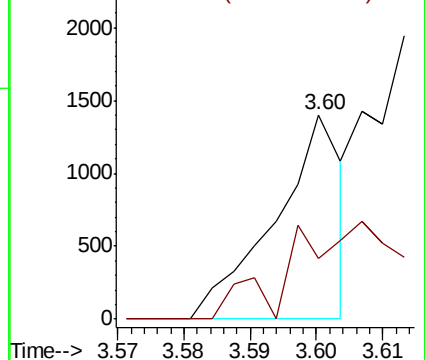
45 100

46 0.0 16.1 64.5#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#15

Acetone

Concen: 5.435 ppbv

RT: 3.84 min Scan# 326

Delta R.T. -0.01 min

Lab File: VL035888.D

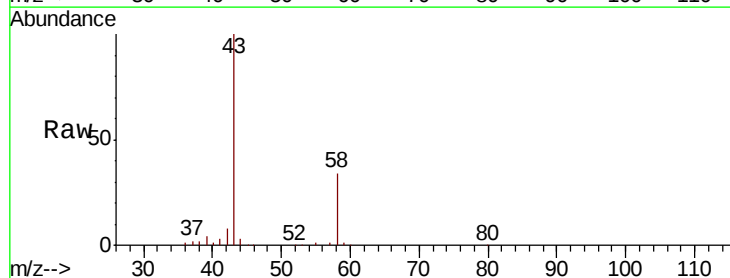
Acq: 6 Nov 2020 10:03

Tgt Ion: 43 Resp: 527916

Ion Ratio Lower Upper

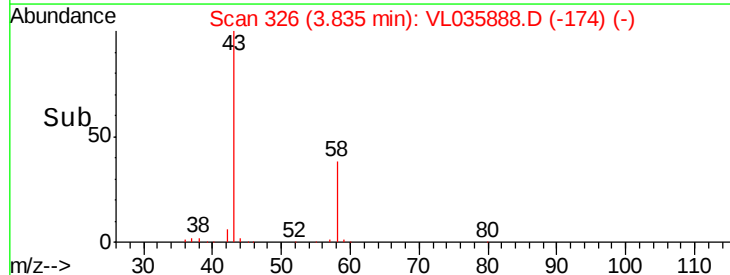
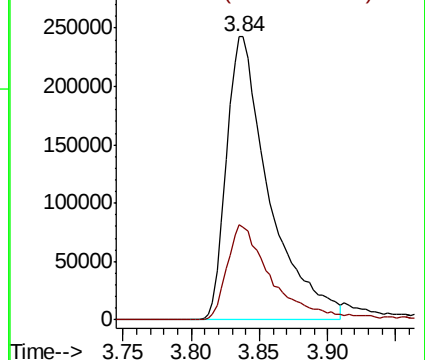
43 100

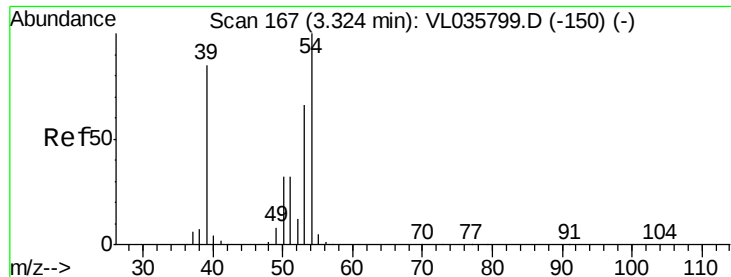
58 35.8 27.5 41.3



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

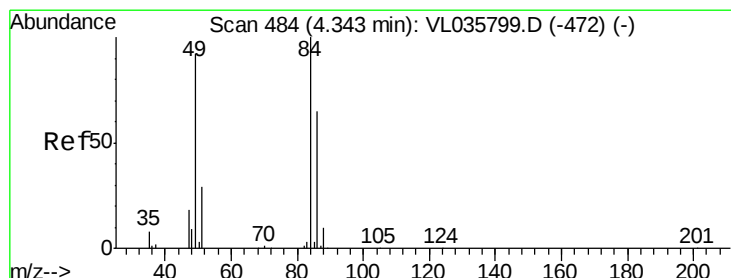
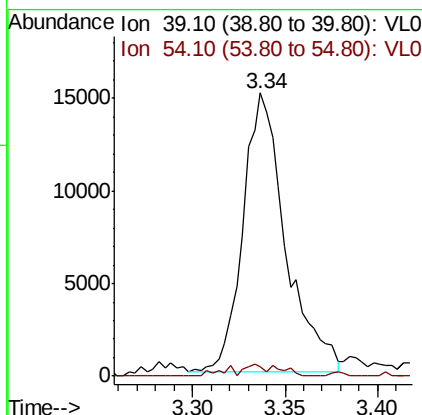
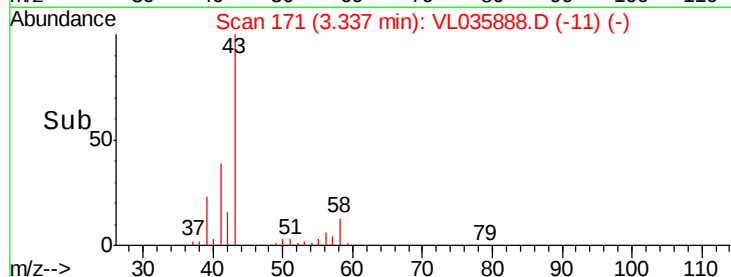
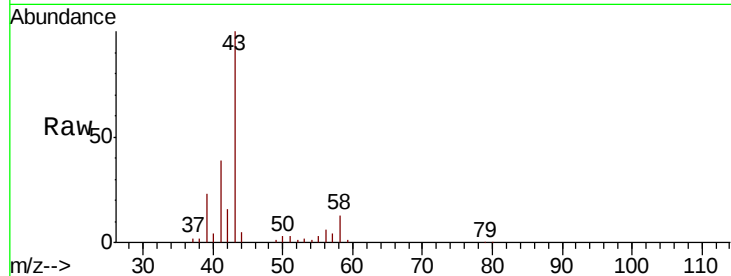




#16
 1,3-Butadiene
 Concen: 0.577 ppbv
 RT: 3.34 min Scan# 171
 Delta R.T. 0.01 min
 Lab File: VL035888.D
 Acq: 6 Nov 2020 10:03

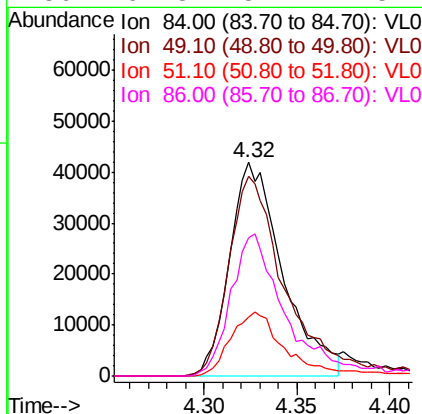
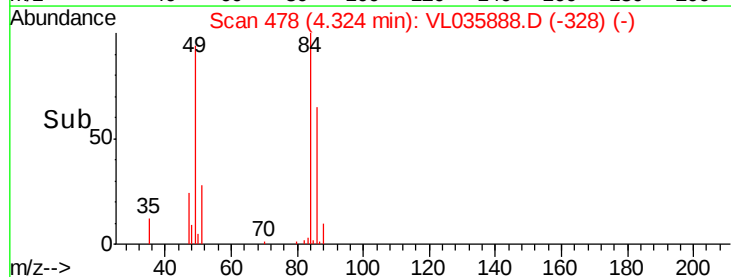
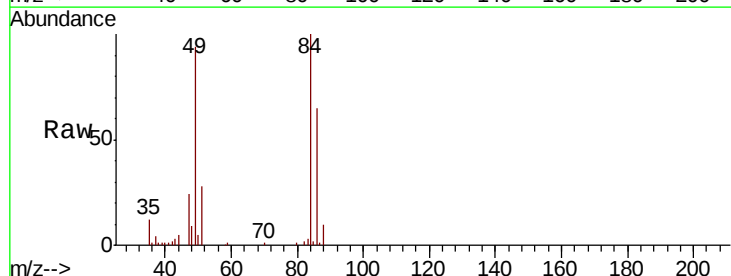
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2DL

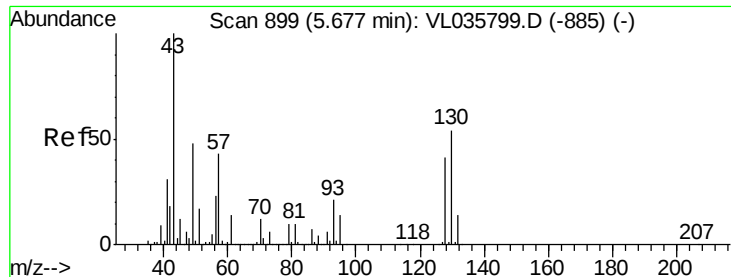
Tot Ion: 39 Resp: 24121
 Ion Ratio Lower Upper
 39 100
 54 4.6 87.1 130.7#



#20
 Methylene Chloride
 Concen: 1.217 ppbv
 RT: 4.32 min Scan# 478
 Delta R.T. -0.02 min
 Lab File: VL035888.D
 Acq: 6 Nov 2020 10:03

Tgt Ion: 84 Resp: 83254
 Ion Ratio Lower Upper
 84 100
 49 92.7 73.8 110.8
 51 27.8 23.0 34.4
 86 64.8 52.1 78.1

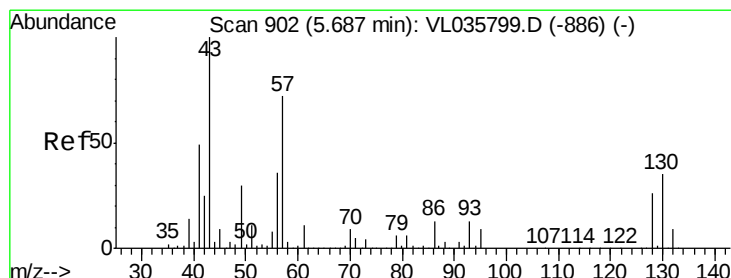
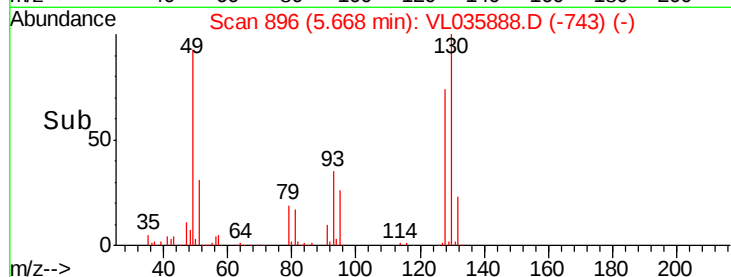
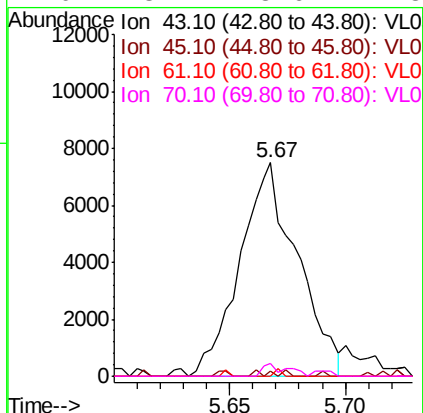
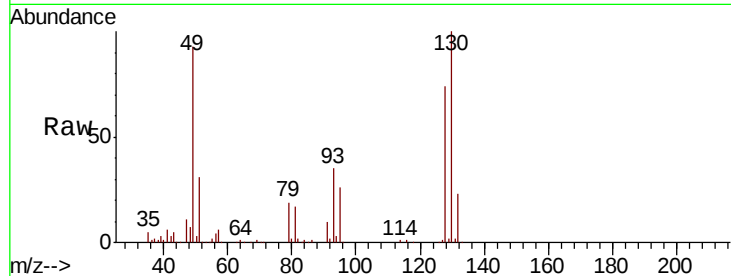




#25
Ethyl Acetate
Concen: 0.068 ppbv
RT: 5.67 min Scan# 896
Delta R.T. -0.01 min
Lab File: VL035888.D
Acq: 6 Nov 2020 10:03

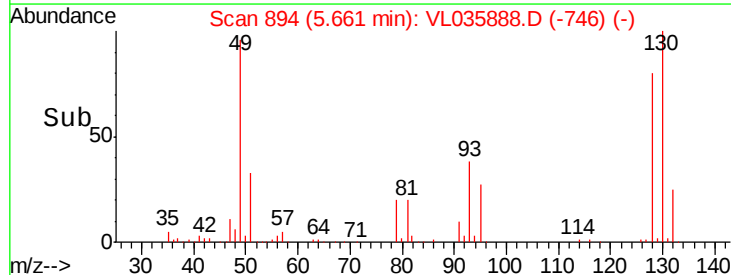
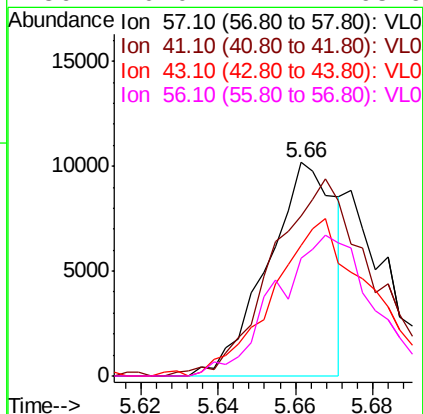
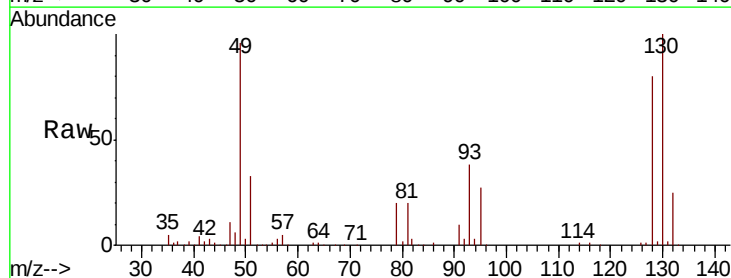
Instrument :
MSVOA_L
ClientSampleId :
IA-2DL

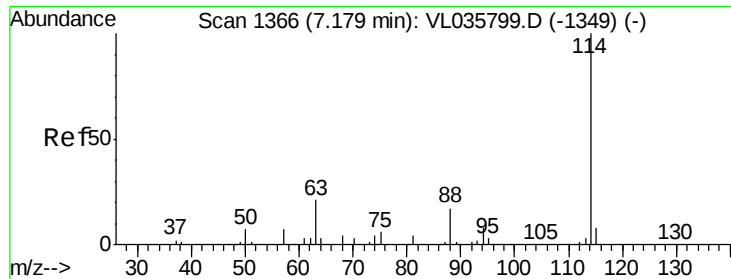
Tot Ion:	43	Resp:	12954
Ion	Ratio	Lower	Upper
43	100		
45	1.5	8.5	12.7#
61	0.3	10.7	16.1#
70	3.4	8.6	12.8#



#26
Hexane
Concen: 0.117 ppbv
RT: 5.66 min Scan# 894
Delta R.T. -0.03 min
Lab File: VL035888.D
Acq: 6 Nov 2020 10:03

Tgt Ion:	57	Resp:	12363
Ion	Ratio	Lower	Upper
57	100		
41	0.0	58.9	88.3#
43	0.0	150.2	225.2#
56	0.0	42.4	63.6#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.15 min Scan# 1357

Delta R.T. -0.03 min

Lab File: VL035888.D

Acq: 6 Nov 2020 10:03

Instrument :

MSVOA_L

ClientSampleId :

IA-2DL

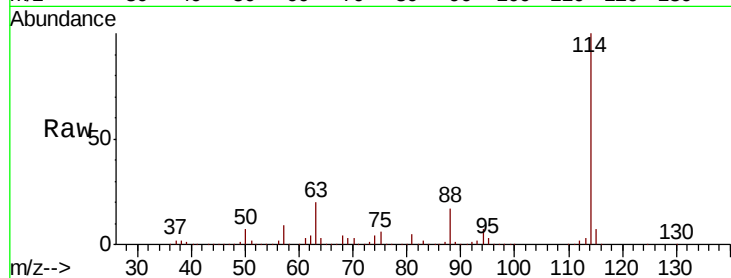
Tot Ion:114 Resp: 3304397

Ion Ratio Lower Upper

114 100

63 20.2 16.1 24.1

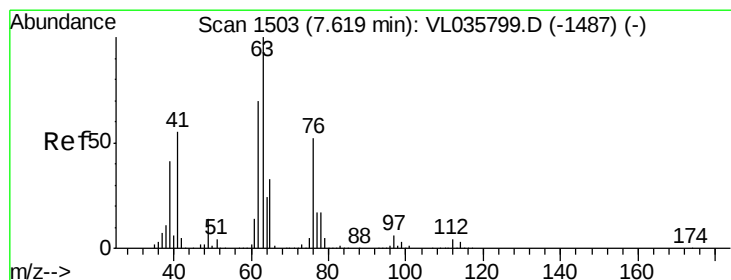
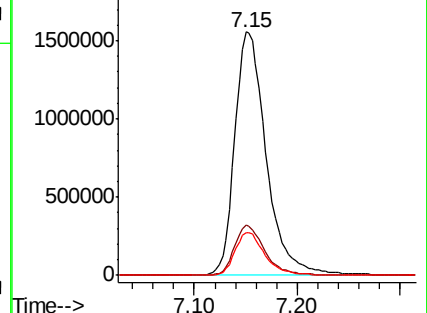
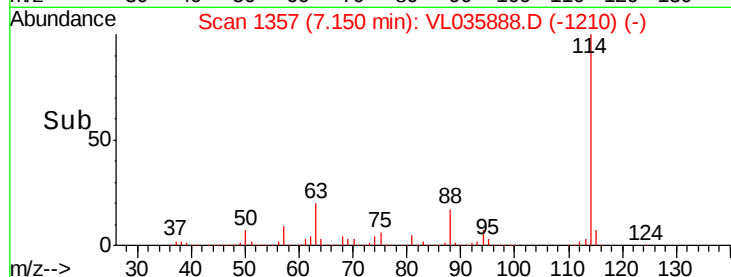
88 17.1 13.7 20.5



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



#39

1,2-Dichloropropane

Concen: 7.825 ppbv

RT: 7.15 min Scan# 1357

Delta R.T. -0.47 min

Lab File: VL035888.D

Acq: 6 Nov 2020 10:03

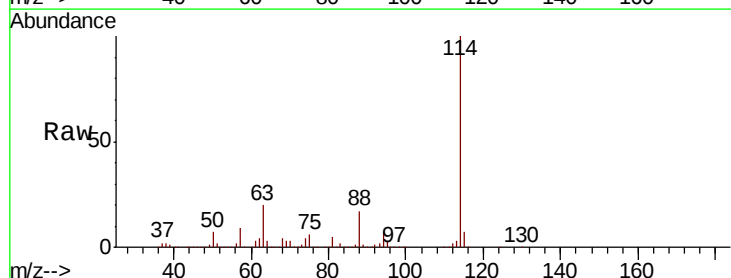
Tgt Ion: 63 Resp: 647183

Ion Ratio Lower Upper

63 100

41 0.1 43.8 65.6#

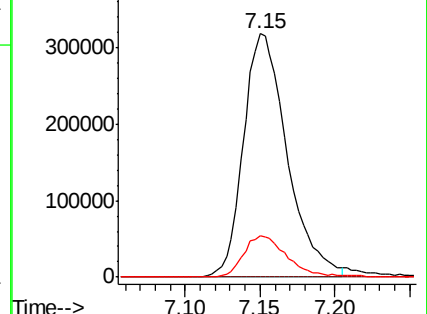
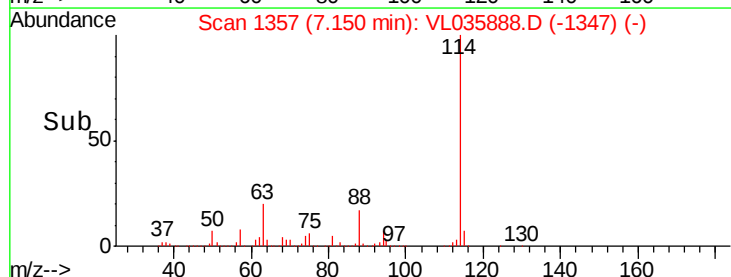
62 17.3 56.2 84.2#

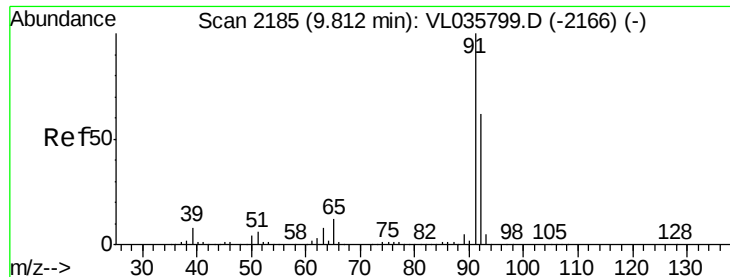


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#53

Toluene

Concen: 0.745 ppbv

RT: 9.78 min Scan# 2176

Delta R.T. -0.03 min

Lab File: VL035888.D

Acq: 6 Nov 2020 10:03

Instrument :

MSVOA_L

ClientSampleId :

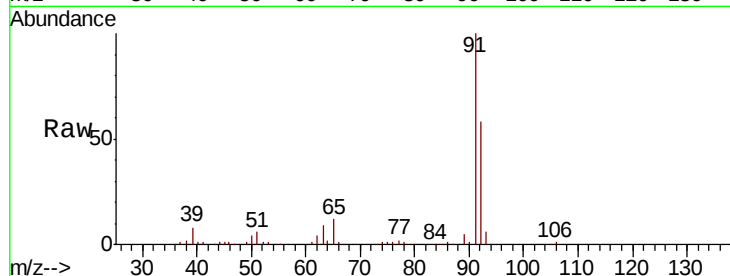
IA-2DL

Tot Ion: 91 Resp: 220762

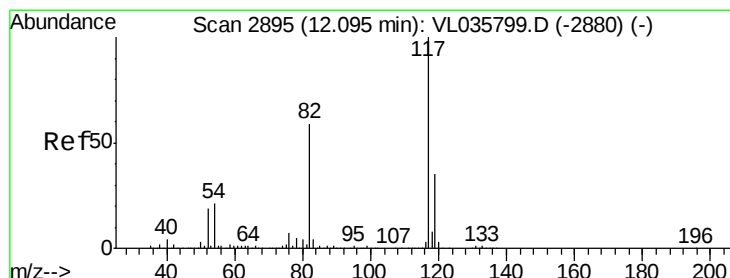
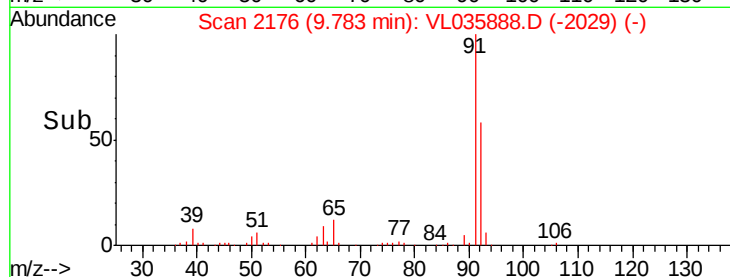
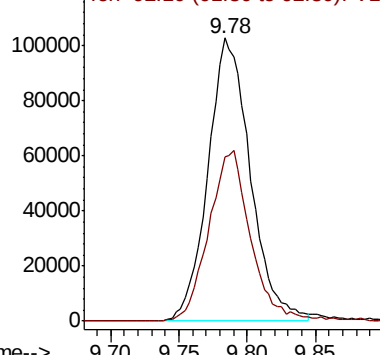
Ion Ratio Lower Upper

91 100

92 60.4 49.8 74.6



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: 12.06 min Scan# 2885

Delta R.T. -0.03 min

Lab File: VL035888.D

Acq: 6 Nov 2020 10:03

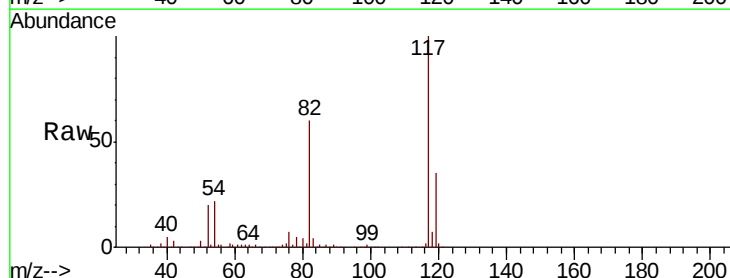
Tgt Ion: 117 Resp: 3103526

Ion Ratio Lower Upper

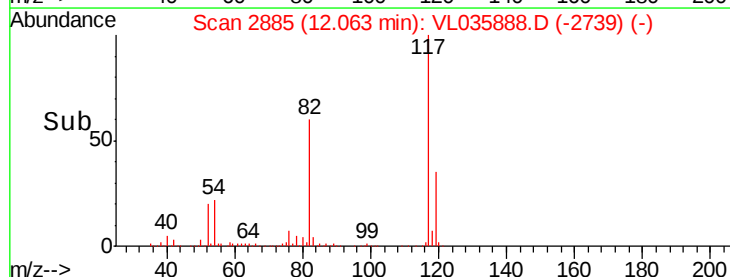
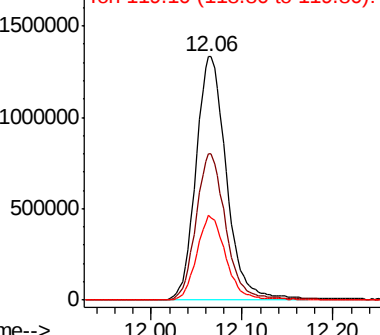
117 100

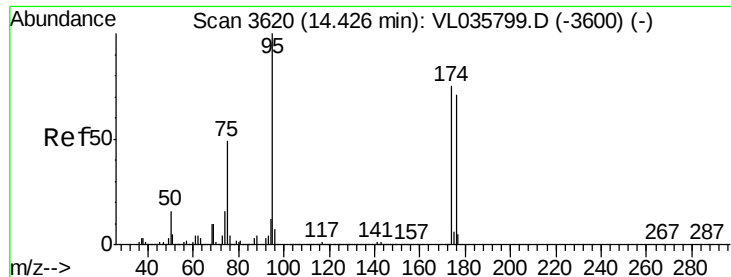
82 59.6 50.6 76.0

119 33.7 52.6 78.8#



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: 9.861 ppbv

RT: 14.39 min Scan# 3610

Delta R.T. -0.03 min

Lab File: VL035888.D

Acq: 6 Nov 2020 10:03

Instrument :

MSVOA_L

ClientSampleId :

IA-2DL

Tot Ion: 95 Resp: 2174296

Ion Ratio Lower Upper

95 100

174 76.3 59.8 89.6

175 5.3 4.3 6.5

