

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL072920\
 Data File : VL035256.D
 Acq On : 29 Jul 2020 21:28
 Operator : SY/AP
 Sample : L3463-02DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jul 30 02:52:58 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL072920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jul 29 07:14:29 2020
 QLast Update : Wed Jul 29 07:14:29 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1272519	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3003711	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	2770320	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.46	95	2224809	10.05	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.50%

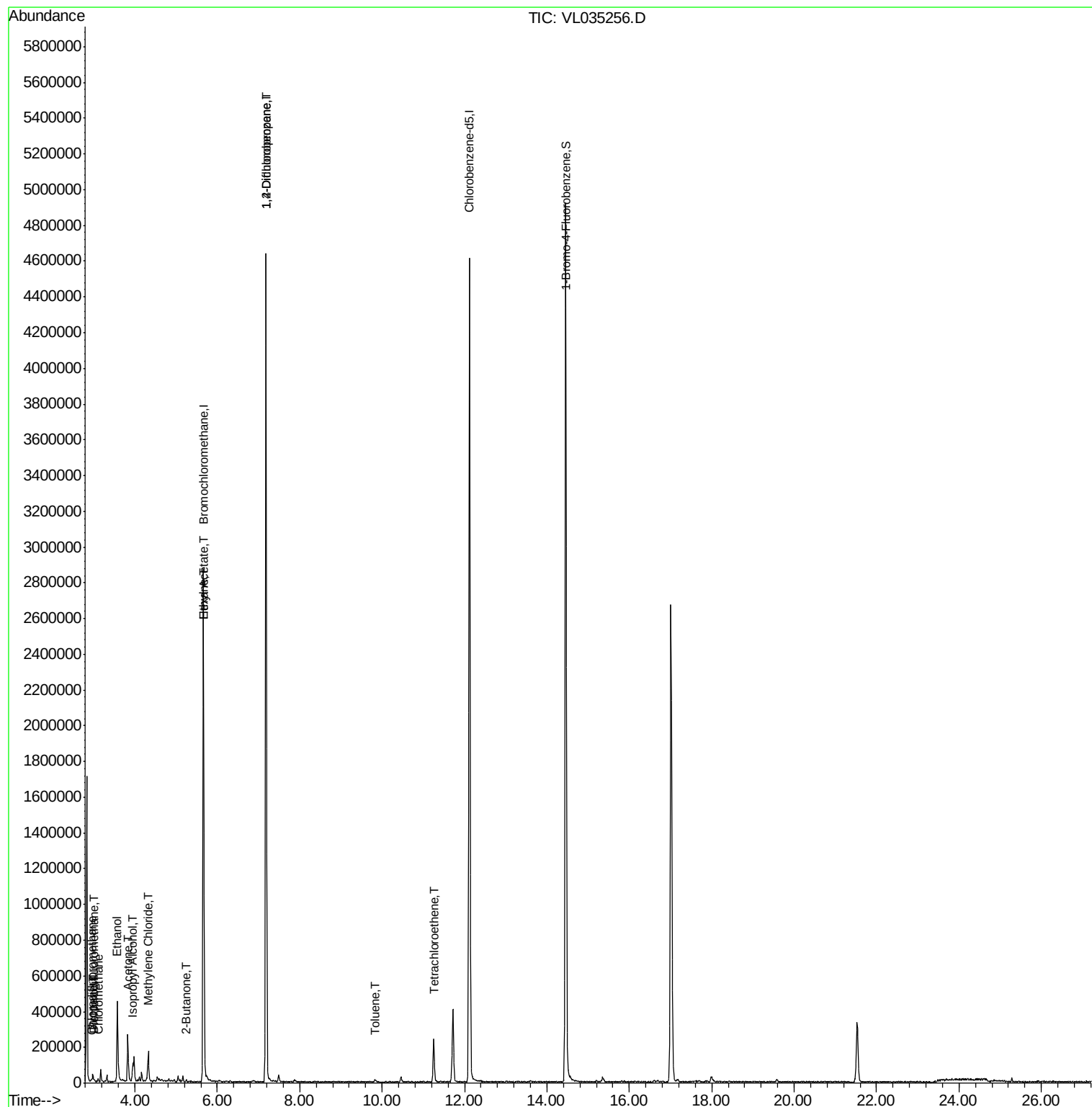
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.01	85	8902	0.059 ppbv	94
3) Chlorodifluoromethane	2.94	51	11866	0.084 ppbv	98
4) Chloromethane	3.11	50	10454	0.132 ppbv #	83
9) Propene	2.99	41	11283	0.230 ppbv #	77
13) Ethanol	3.57	45	262254	13.123 ppbv #	54
15) Acetone	3.83	43	231990	1.367 ppbv	94
19) Isopropyl Alcohol	3.95	45	121399	1.084 ppbv #	93
20) Methylene Chloride	4.33	84	55185	0.714 ppbv	86
25) Ethyl Acetate	5.68	43	18346	0.069 ppbv #	92
26) Hexane	5.68	57	9553	0.080 ppbv #	61
34) 2-Butanone	5.25	43	14579	0.095 ppbv	99
39) 1,2-Dichloropropane	7.18	63	824524	9.900 ppbv #	24
52) Tetrachloroethene	11.26	164	26209	0.329 ppbv	94
53) Toluene	9.83	91	8062	0.036 ppbv	94

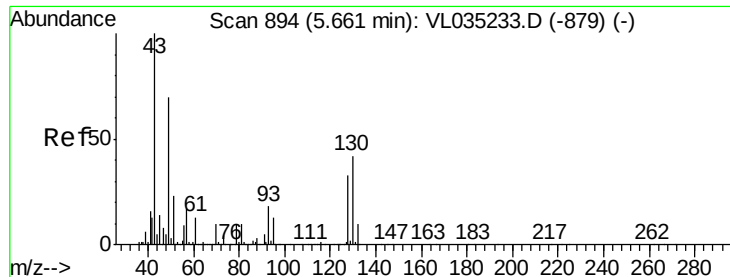
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. 0.00 min

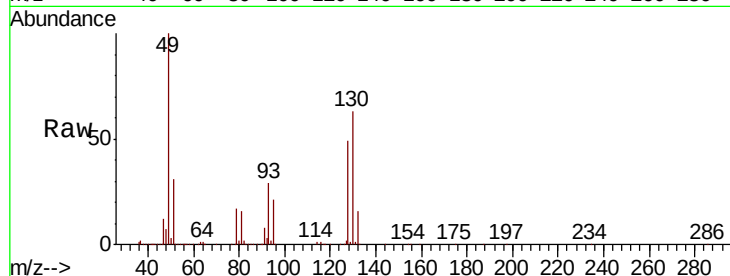
Lab File: VL035256.D

Acq: 29 Jul 2020 21:28

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 49 Resp: 1272519

Ion	Ratio	Lower	Upper
49	100		
128	49.0	24.0	72.0
130	62.5	30.7	92.1



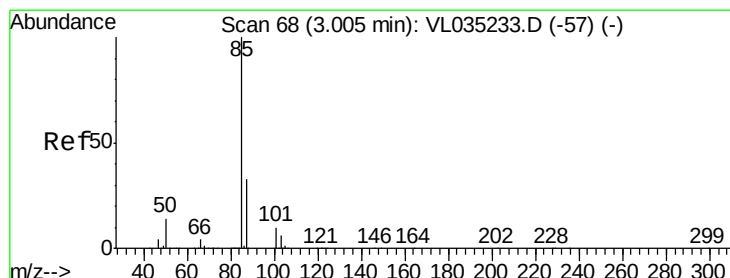
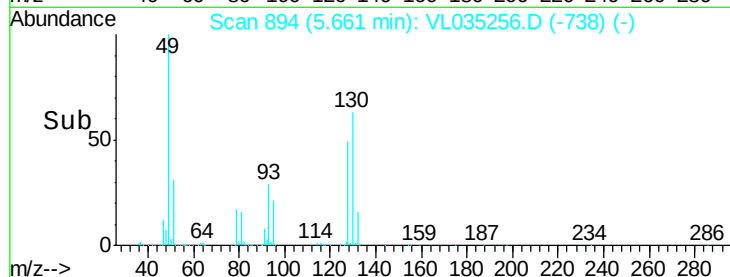
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V

5.66

Time-->



#2

Dichlorodifluoromethane

Concen: 0.059 ppbv

RT: 3.01 min Scan# 69

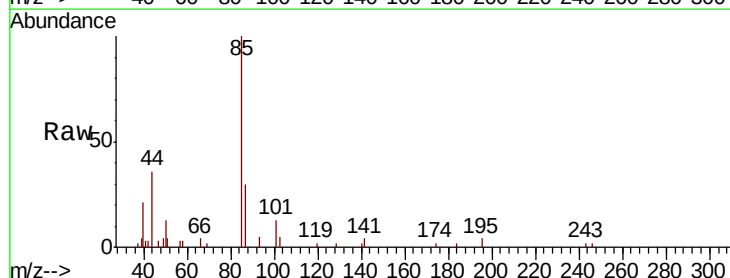
Delta R.T. 0.00 min

Lab File: VL035256.D

Acq: 29 Jul 2020 21:28

Tgt Ion: 85 Resp: 8902

Ion	Ratio	Lower	Upper
85	100		
87	30.2	26.7	40.1

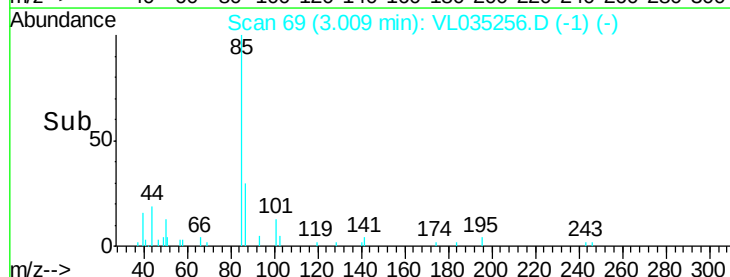


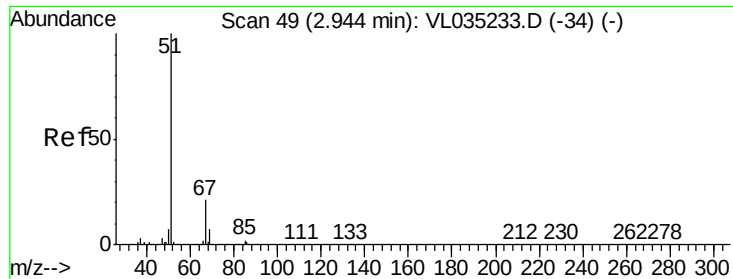
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.01

Time-->





#3

Chlorodifluoromethane

Concen: 0.084 ppbv

RT: 2.94 min Scan# 49

Delta R.T. 0.00 min

Lab File: VL035256.D

Acq: 29 Jul 2020 21:28

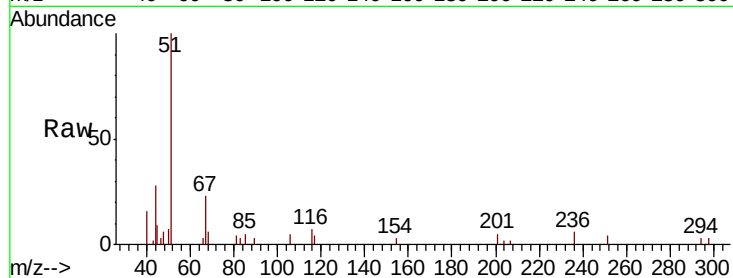
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 51 Resp: 11866

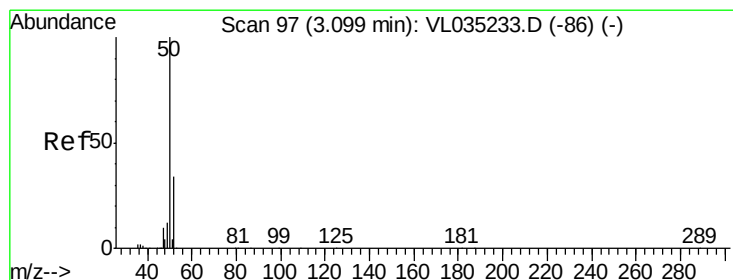
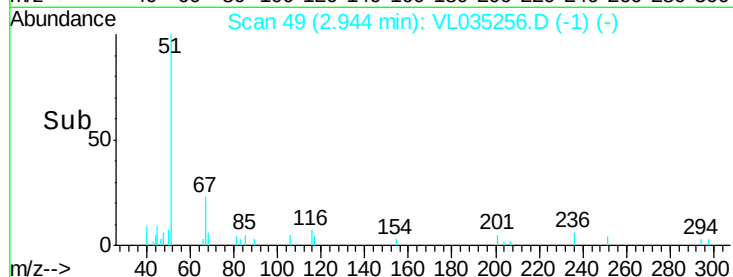
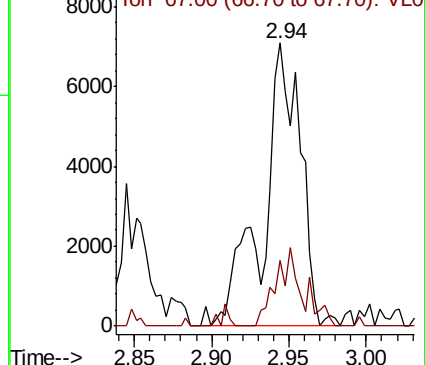
Ion Ratio Lower Upper

51 100

67 20.0 16.6 25.0



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



#4

Chloromethane

Concen: 0.132 ppbv

RT: 3.11 min Scan# 100

Delta R.T. 0.01 min

Lab File: VL035256.D

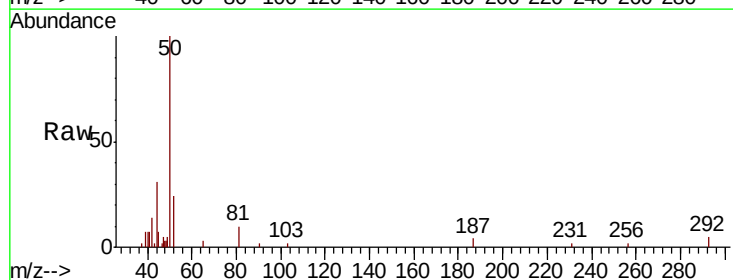
Acq: 29 Jul 2020 21:28

Tgt Ion: 50 Resp: 10454

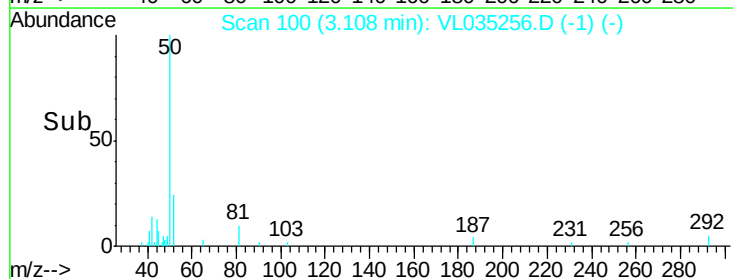
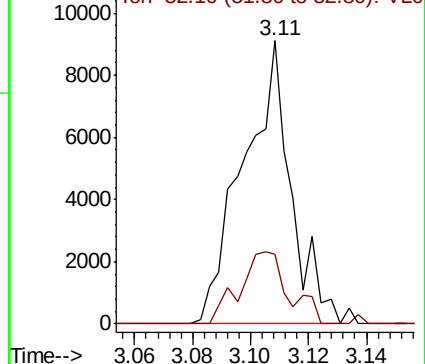
Ion Ratio Lower Upper

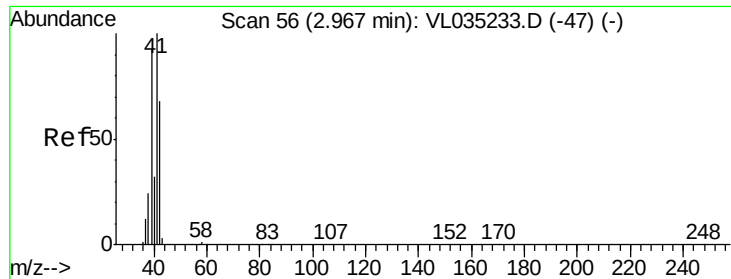
50 100

52 24.4 27.1 40.7#



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





#9

Propene

Concen: 0.230 ppbv

RT: 2.99 min Scan# 62

Delta R.T. 0.02 min

Lab File: VL035256.D

Acq: 29 Jul 2020 21:28

Instrument :

MSVOA_L

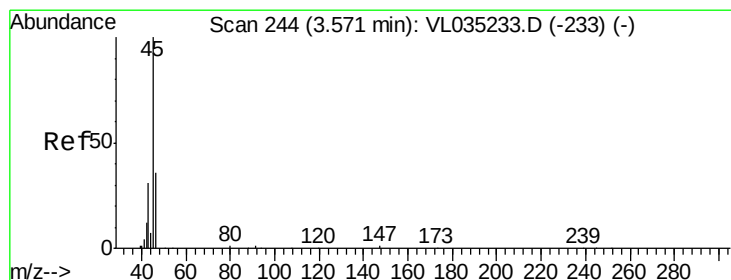
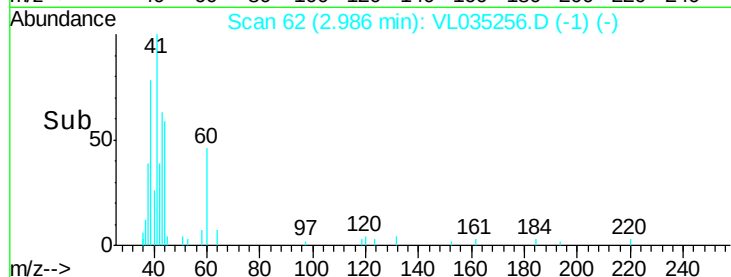
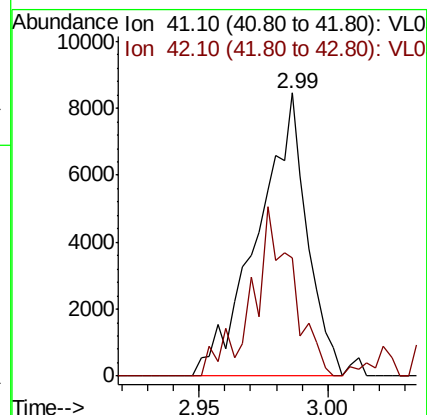
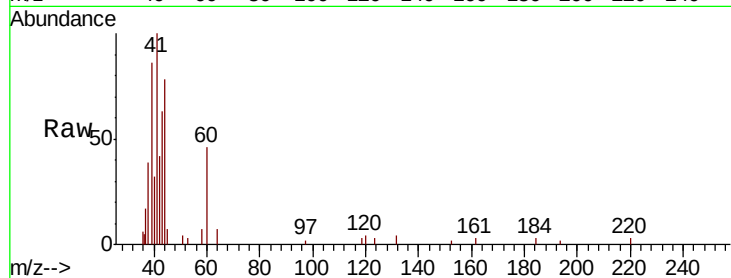
ClientSampleId :

Tot Ion: 41 Resp: 11283

Ion Ratio Lower Upper

41 100

42 50.1 55.0 82.6#



#13

Ethanol

Concen: 13.123 ppbv

RT: 3.57 min Scan# 243

Delta R.T. -0.00 min

Lab File: VL035256.D

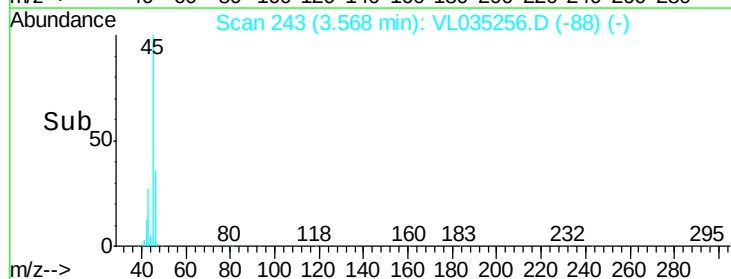
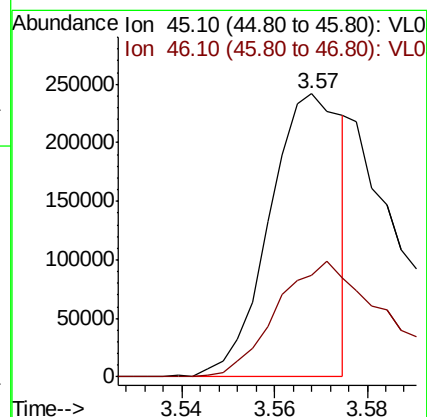
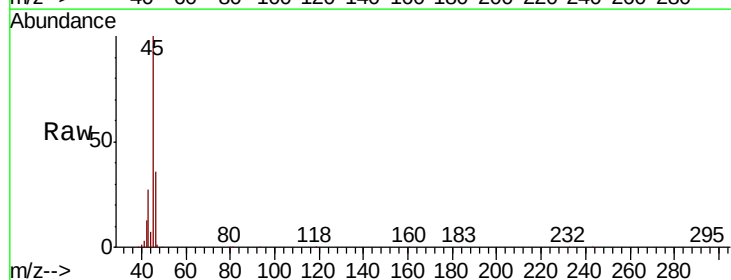
Acq: 29 Jul 2020 21:28

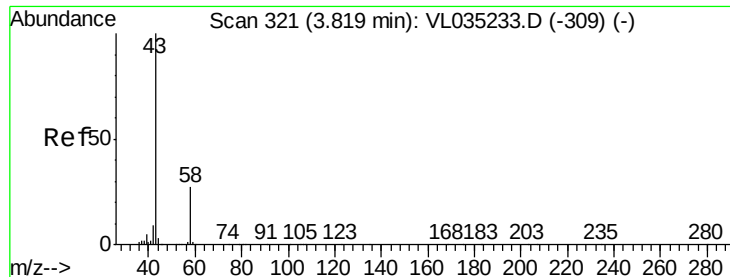
Tgt Ion: 45 Resp: 262254

Ion Ratio Lower Upper

45 100

46 68.2 15.8 63.4#





#15

Acetone

Concen: 1.367 ppbv

RT: 3.83 min Scan# 323

Delta R.T. 0.01 min

Lab File: VL035256.D

Acq: 29 Jul 2020 21:28

Instrument :

MSVOA_L

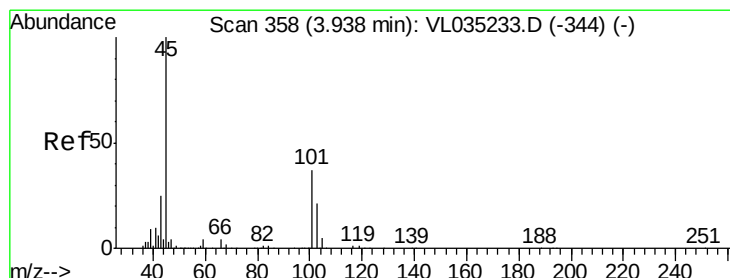
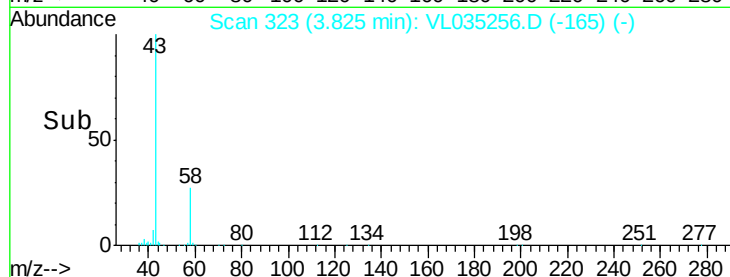
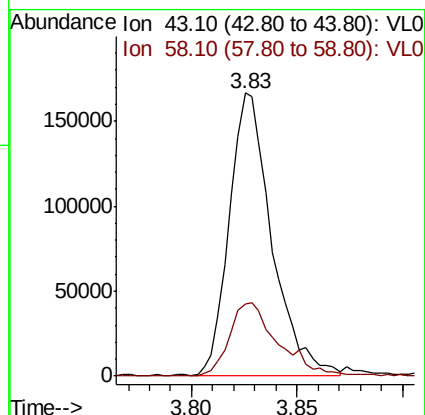
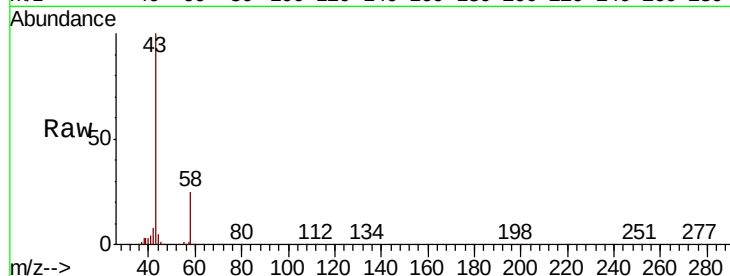
ClientSampleId :

Tot Ion: 43 Resp: 231990

Ion Ratio Lower Upper

43 100

58 30.3 21.8 32.6



#19

Isopropyl Alcohol

Concen: 1.084 ppbv

RT: 3.95 min Scan# 361

Delta R.T. 0.01 min

Lab File: VL035256.D

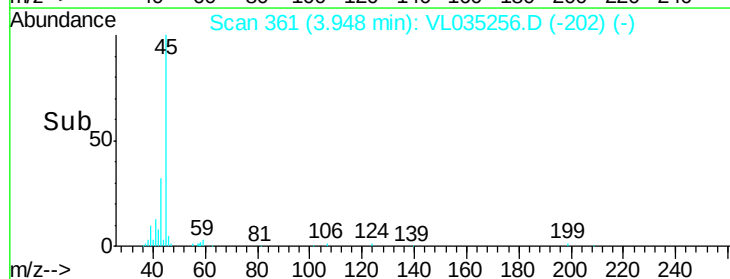
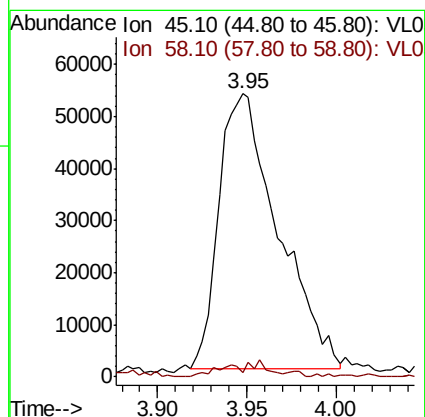
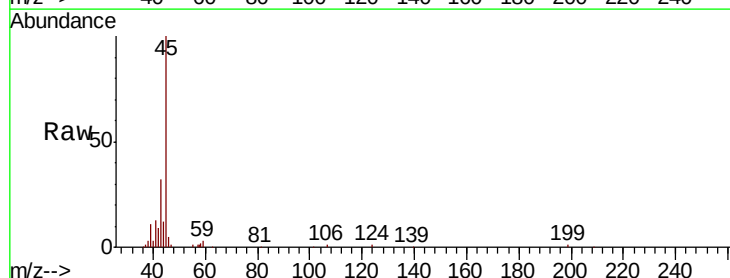
Acq: 29 Jul 2020 21:28

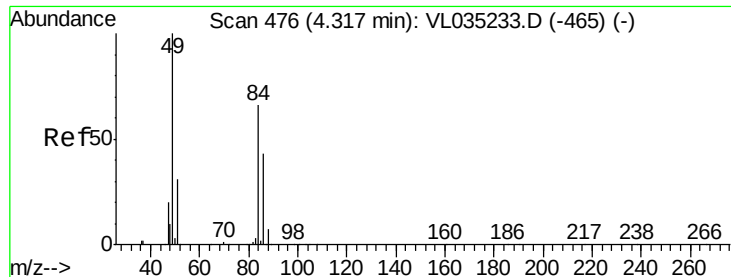
Tgt Ion: 45 Resp: 121399

Ion Ratio Lower Upper

45 100

58 4.8 1.9 2.9#

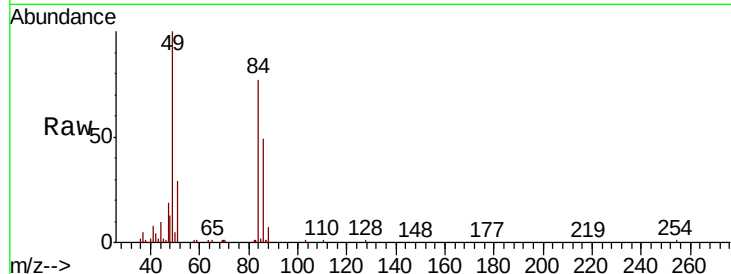




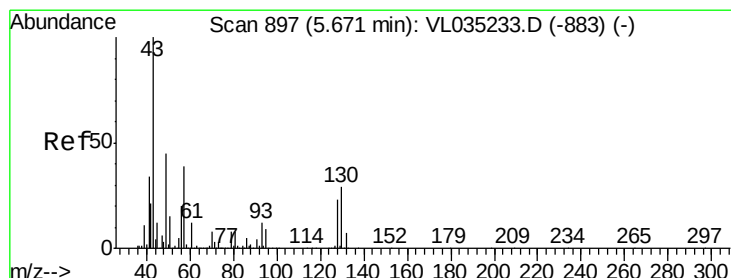
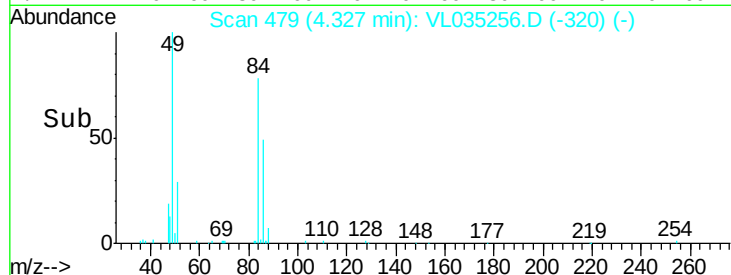
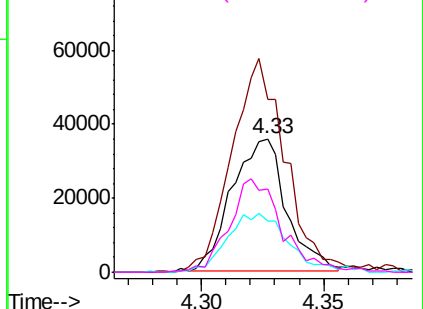
#20
Methvlene Chloride
Concen: 0.714 ppbv
RT: 4.33 min Scan# 479
Delta R.T. 0.01 min
Lab File: VL035256.D
Acq: 29 Jul 2020 21:28

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 84 Resp: 55185
Ion Ratio Lower Upper
84 100
49 126.7 121.0 181.4
51 37.8 37.7 56.5
86 62.7 52.2 78.4

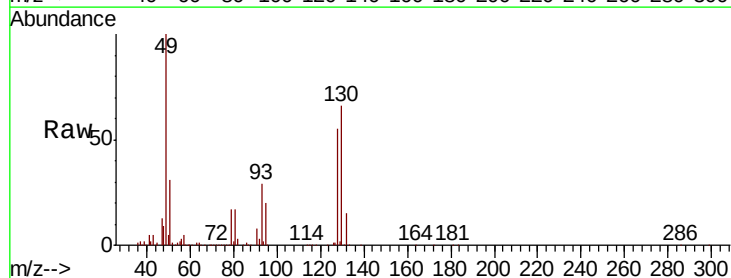


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

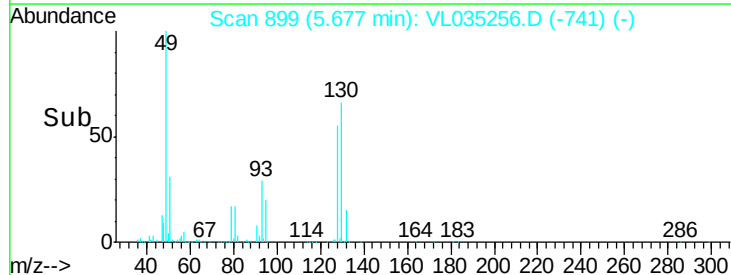
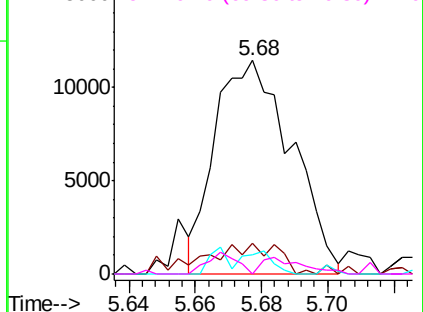


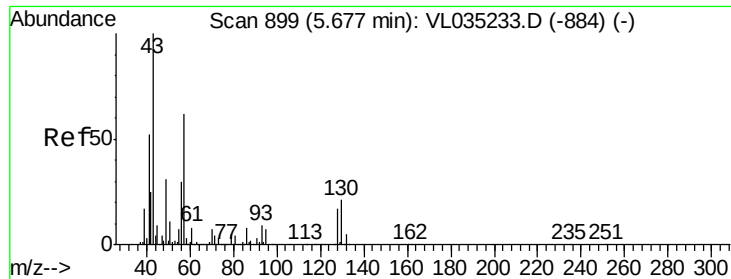
#25
Ethyl Acetate
Concen: 0.069 ppbv
RT: 5.68 min Scan# 899
Delta R.T. 0.01 min
Lab File: VL035256.D
Acq: 29 Jul 2020 21:28

Tgt Ion: 43 Resp: 18346
Ion Ratio Lower Upper
43 100
45 15.7 8.5 12.7#
61 7.6 8.1 12.1#
70 8.9 6.2 9.4



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0

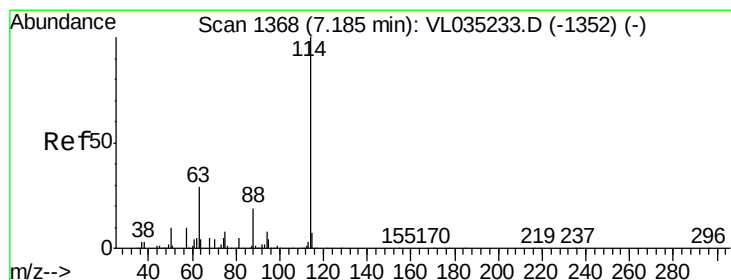
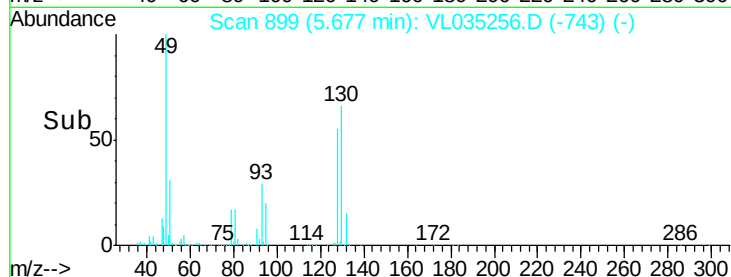
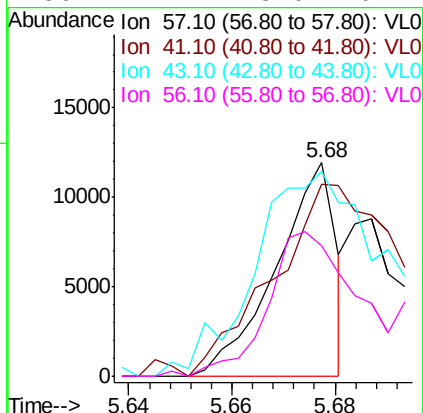
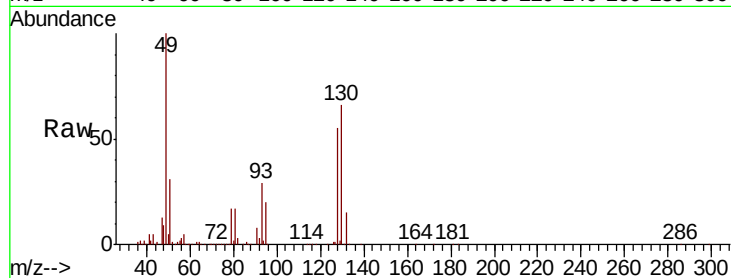




#26
Hexane
Concen: 0.080 ppbv
RT: 5.68 min Scan# 899
Delta R.T. 0.00 min
Lab File: VL035256.D
Acq: 29 Jul 2020 21:28

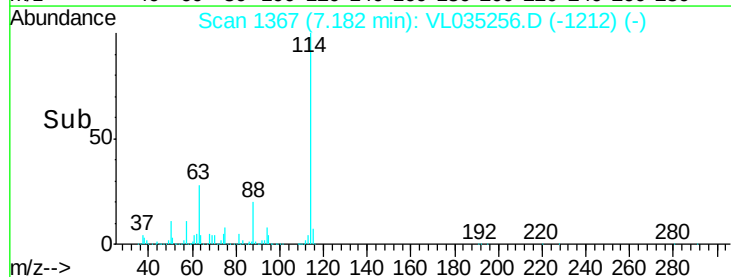
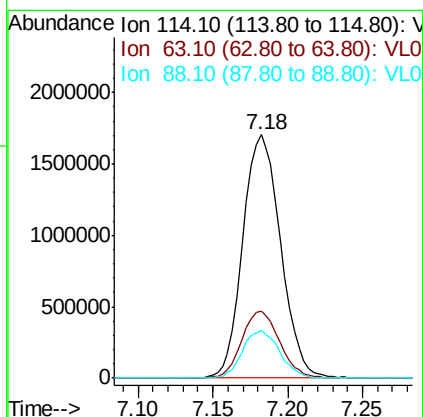
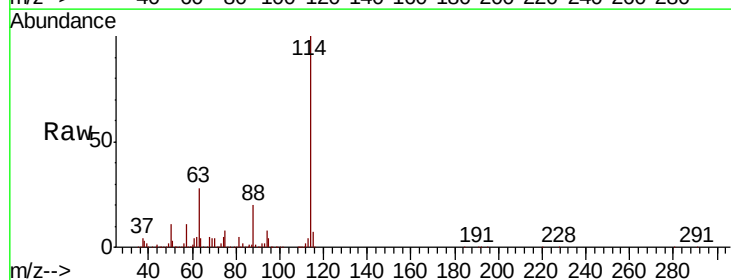
Instrument :
MSVOA_L
ClientSampleId :

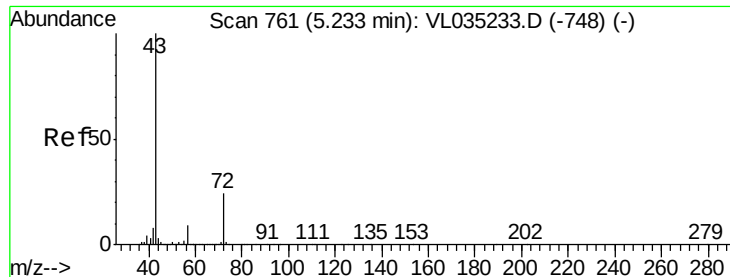
Tot Ion: 57 Resp: 9553
Ion Ratio Lower Upper
57 100
41 188.2 73.9 110.9#
43 221.2 177.6 266.4
56 122.1 43.0 64.4#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1367
Delta R.T. -0.00 min
Lab File: VL035256.D
Acq: 29 Jul 2020 21:28

Tgt Ion: 114 Resp: 3003711
Ion Ratio Lower Upper
114 100
63 27.6 22.2 33.2
88 19.3 15.4 23.0

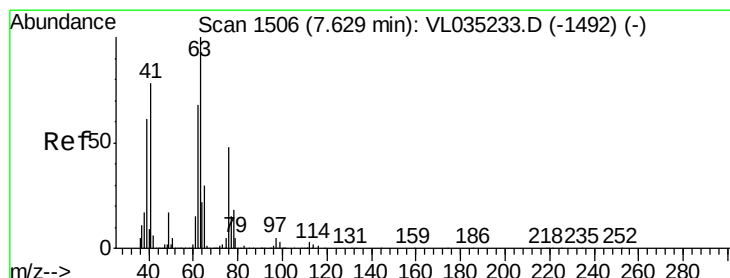
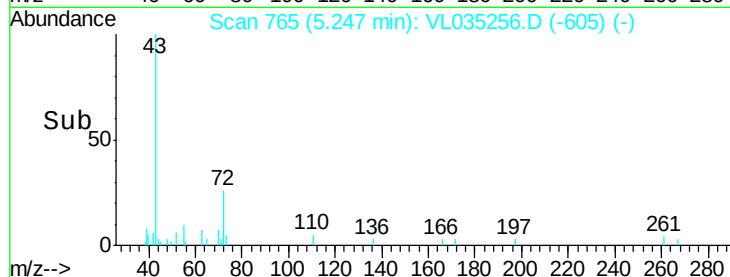
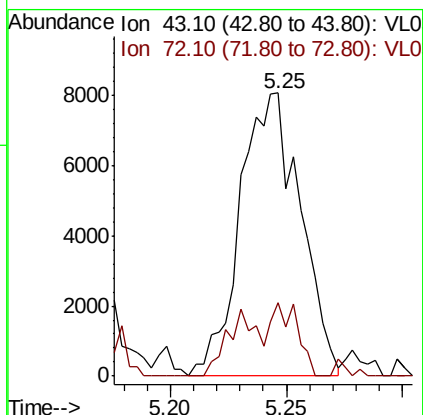
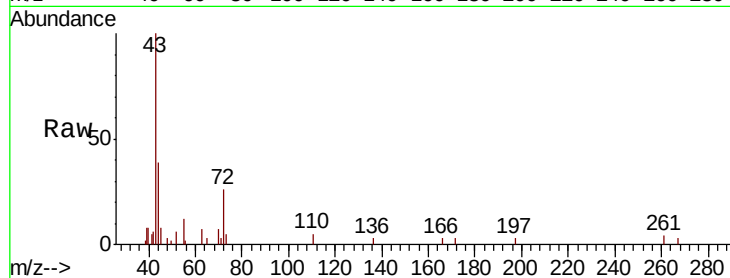




#34
2-Butanone
Concen: 0.095 ppbv
RT: 5.25 min Scan# 765
Delta R.T. 0.01 min
Lab File: VL035256.D
Acq: 29 Jul 2020 21:28

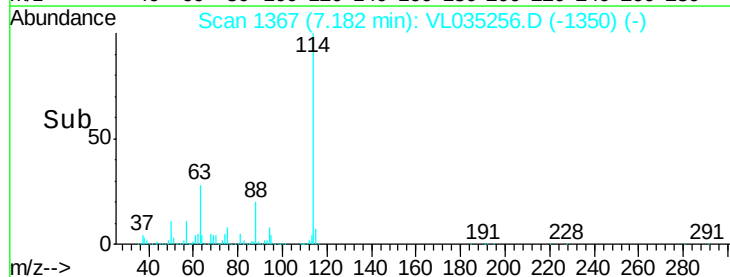
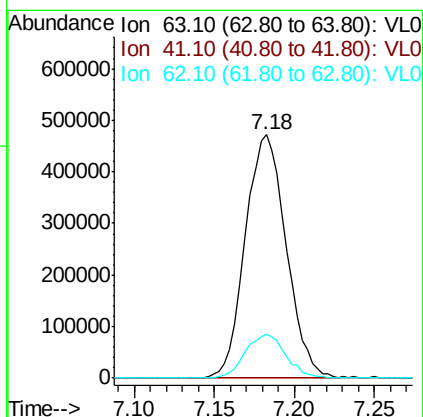
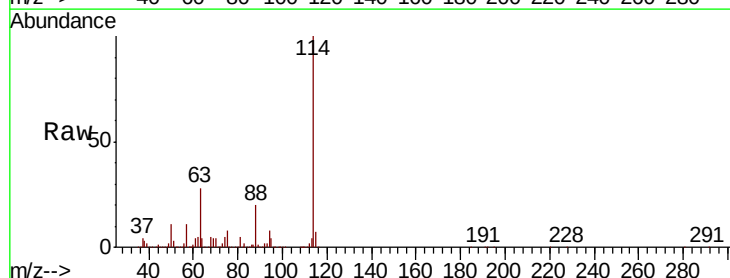
Instrument :
MSVOA_L
ClientSampleId :

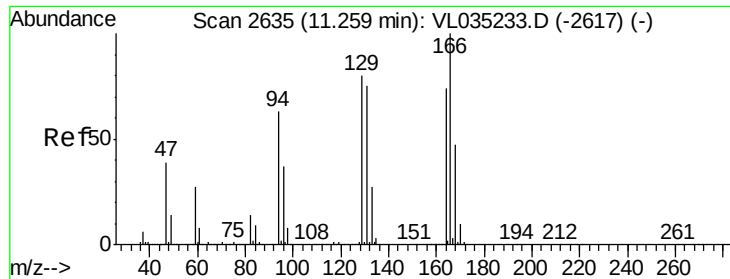
Tot Ion: 43 Resp: 14579
Ion Ratio Lower Upper
43 100
72 24.4 19.2 28.8



#39
1,2-Dichloropropane
Concen: 9.900 ppbv
RT: 7.18 min Scan# 1367
Delta R.T. -0.45 min
Lab File: VL035256.D
Acq: 29 Jul 2020 21:28

Tgt Ion: 63 Resp: 824524
Ion Ratio Lower Upper
63 100
41 0.1 62.2 93.4#
62 18.1 54.2 81.2#





#52

Tetrachloroethene

Concen: 0.329 ppbv

RT: 11.26 min Scan# 2635

Delta R.T. 0.00 min

Lab File: VL035256.D

Acq: 29 Jul 2020 21:28

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:164 Resp: 26209

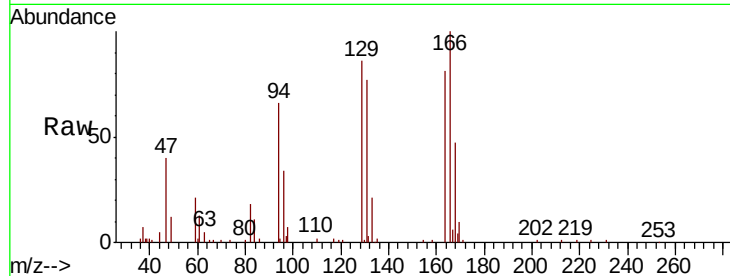
Ion Ratio Lower Upper

164 100

166 121.3 107.5 161.3

129 105.7 86.0 129.0

131 96.9 80.3 120.5

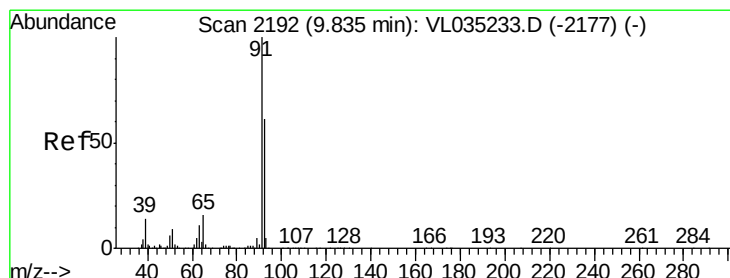
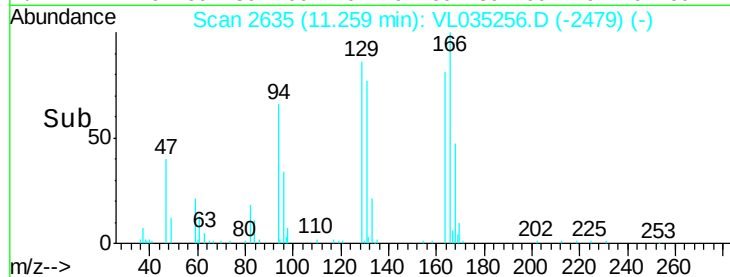
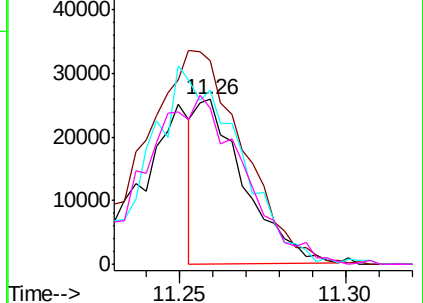


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 0.036 ppbv

RT: 9.83 min Scan# 2190

Delta R.T. -0.01 min

Lab File: VL035256.D

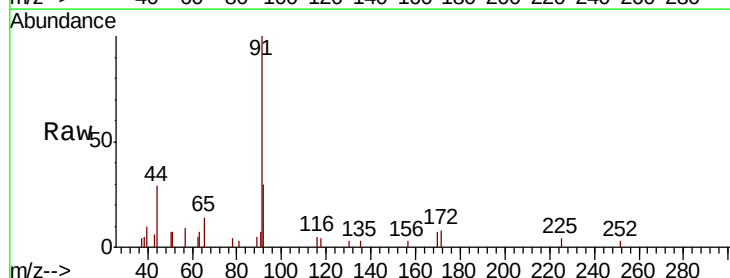
Acq: 29 Jul 2020 21:28

Tgt Ion: 91 Resp: 8062

Ion Ratio Lower Upper

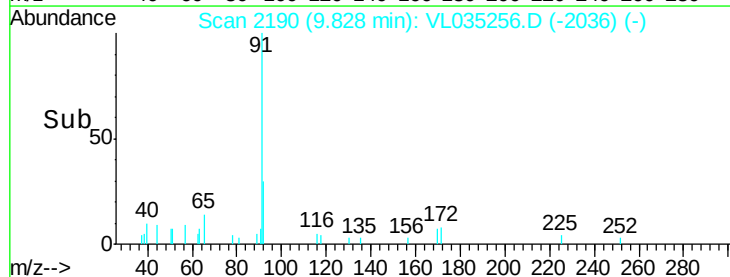
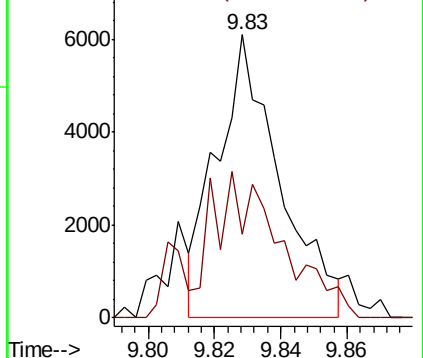
91 100

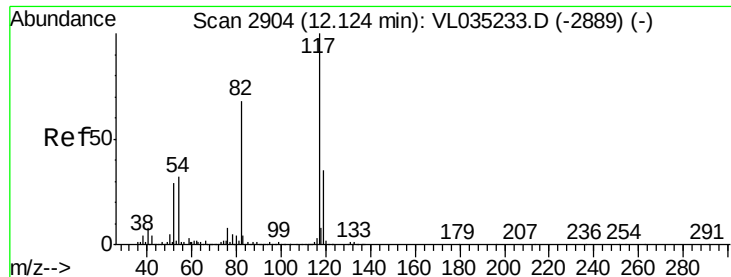
92 64.9 48.5 72.7



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

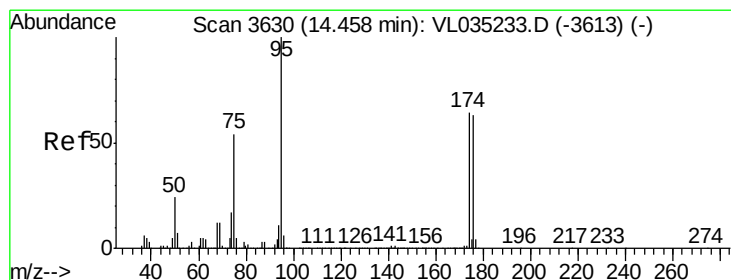
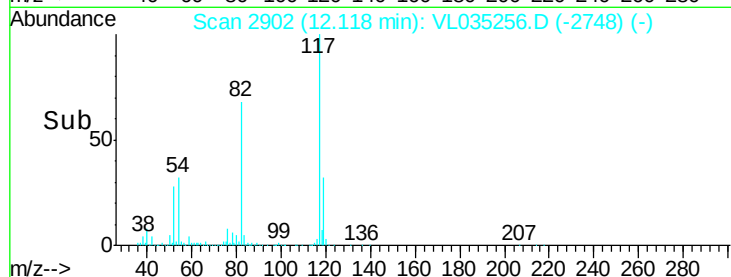
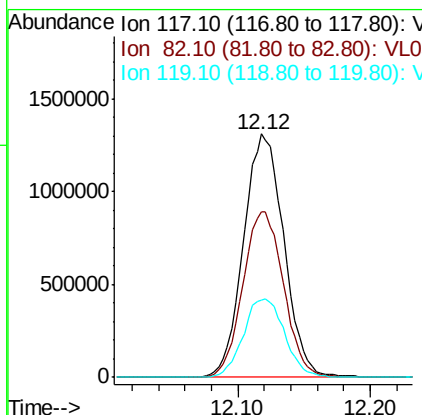
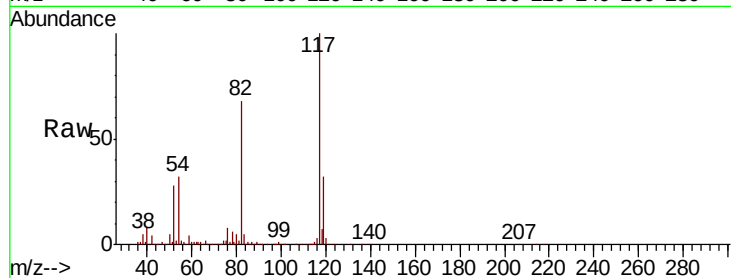




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.12 min Scan# 2902
Delta R.T. -0.01 min
Lab File: VL035256.D
Acq: 29 Jul 2020 21:28

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:117 Resp: 2770320
Ion Ratio Lower Upper
117 100
82 69.0 52.4 78.6
119 33.1 24.6 36.8



#68
1-Bromo-4-Fluorobenzene
Concen: 10.050 ppbv
RT: 14.46 min Scan# 3629
Delta R.T. -0.00 min
Lab File: VL035256.D
Acq: 29 Jul 2020 21:28

Tgt Ion: 95 Resp: 2224809
Ion Ratio Lower Upper
95 100
174 65.1 52.7 79.1
175 4.8 3.9 5.9

