

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL072920\
 Data File : VL035254.D
 Acq On : 29 Jul 2020 20:06
 Operator : SY/AP
 Sample : L3463-01DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jul 30 02:52:20 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	1172187	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2889111	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	2700306	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.46	95	2149621	9.96	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.60%

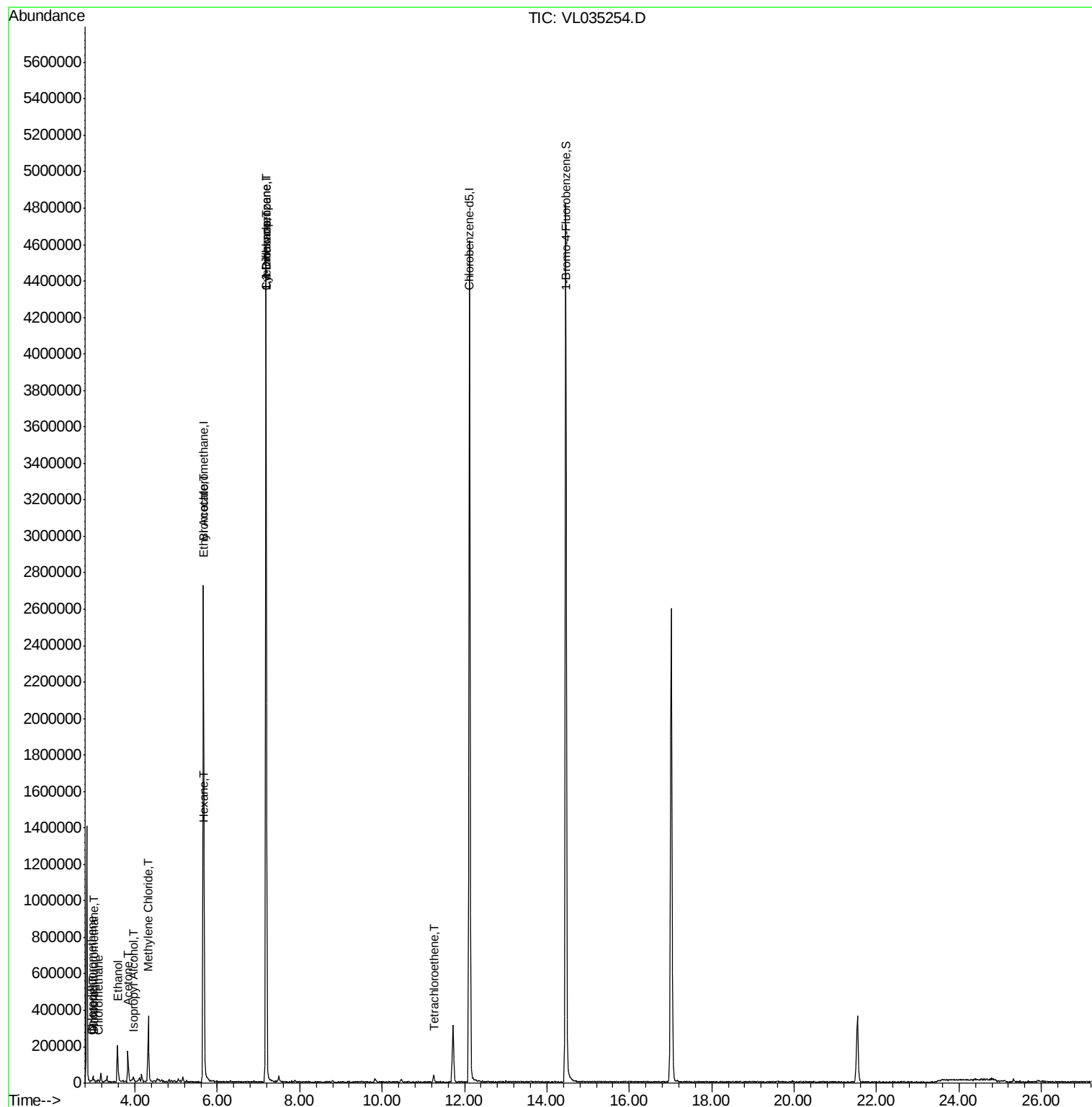
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	8792	0.063	ppbv	97
3) Chlorodifluoromethane	2.96	51	10048	0.077	ppbv #	88
4) Chloromethane	3.10	50	4104	0.056	ppbv #	72
9) Propene	2.97	41	2539	0.056	ppbv #	15
13) Ethanol	3.58	45	193111	10.490	ppbv	95
15) Acetone	3.83	43	152319	0.974	ppbv	90
19) Isopropyl Alcohol	3.95	45	17668	0.171	ppbv #	79
20) Methylene Chloride	4.32	84	121036	1.701	ppbv	92
25) Ethyl Acetate	5.67	43	10660	0.044	ppbv #	82
26) Hexane	5.69	57	8489	0.077	ppbv #	31
30) Cyclohexane	7.17	84	6497	0.083	ppbv #	1
39) 1,2-Dichloropropane	7.18	63	788512	9.843	ppbv #	23
52) Tetrachloroethene	11.25	164	3417	0.045	ppbv #	58

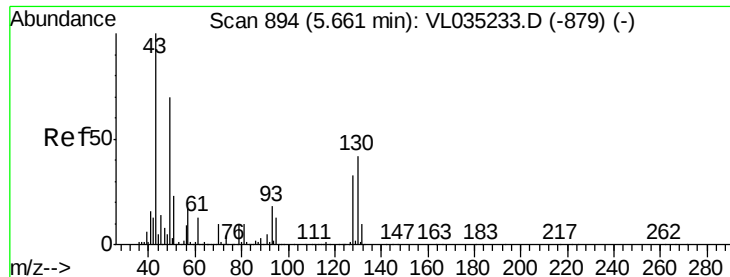
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Jul 29 07:14:29 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. 0.00 min

Lab File: VL035254.D

Acq: 29 Jul 2020 20:06

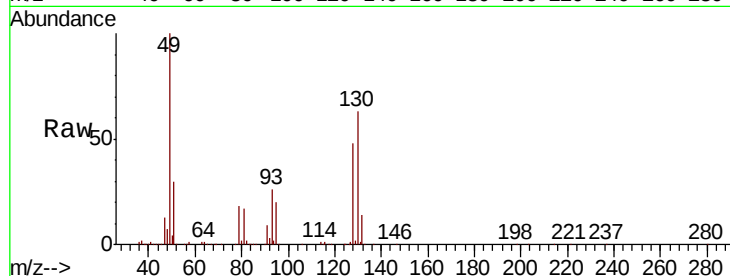
Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 49 Resp: 1172187

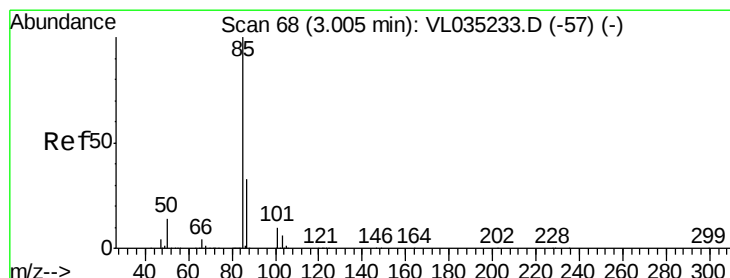
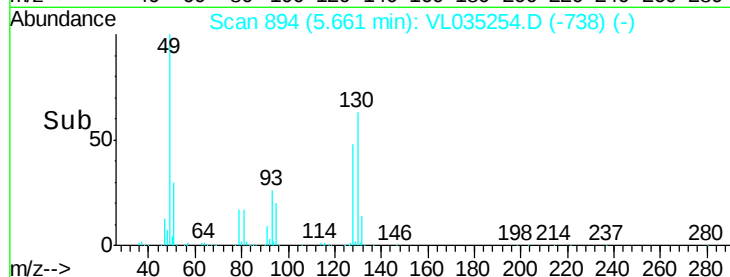
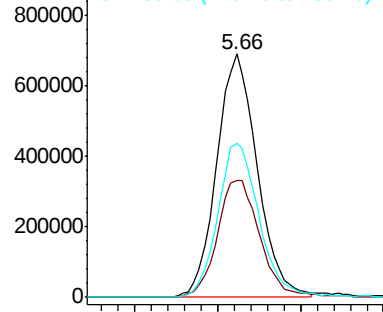
Ion	Ratio	Lower	Upper
49	100		
128	50.7	24.0	72.0
130	65.2	30.7	92.1



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



#2

Dichlorodifluoromethane

Concen: 0.063 ppbv

RT: 3.02 min Scan# 71

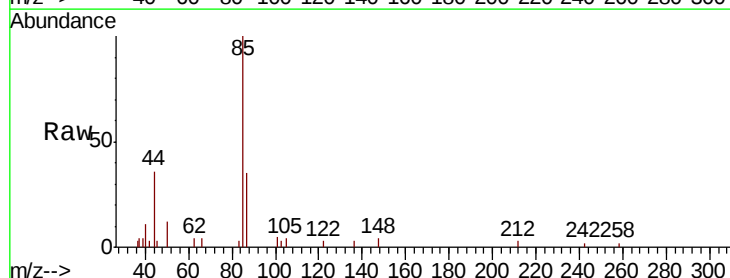
Delta R.T. 0.01 min

Lab File: VL035254.D

Acq: 29 Jul 2020 20:06

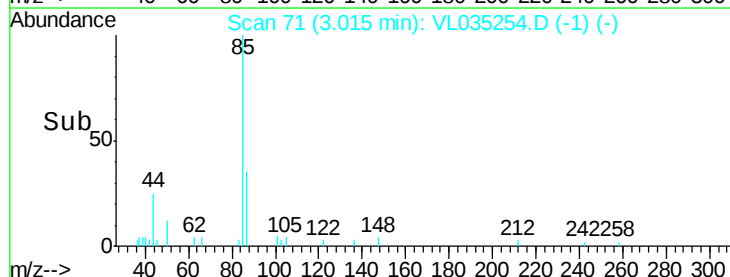
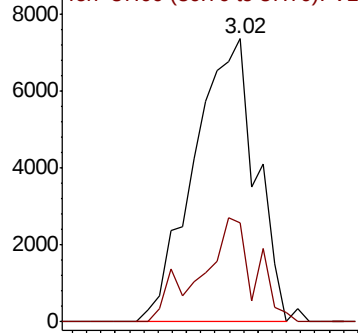
Tgt Ion: 85 Resp: 8792

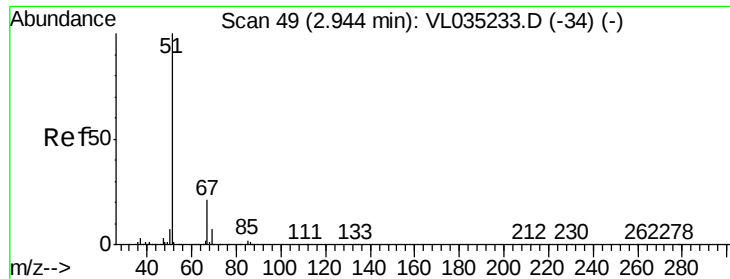
Ion	Ratio	Lower	Upper
85	100		
87	34.9	26.7	40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

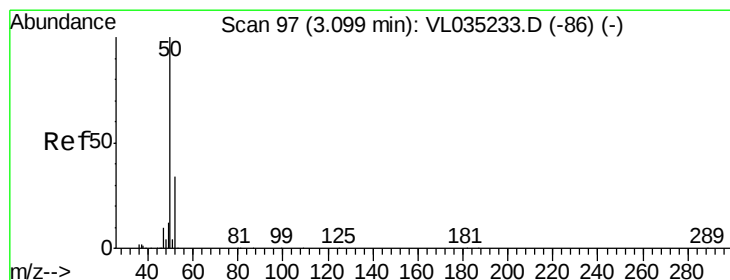
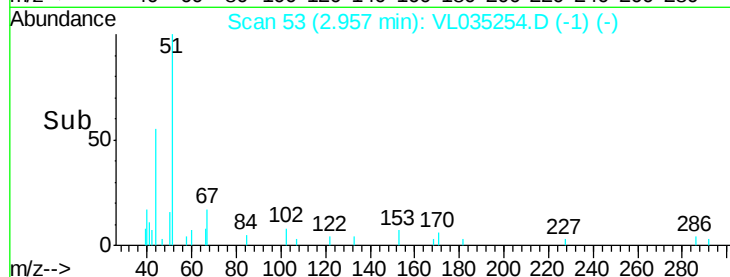
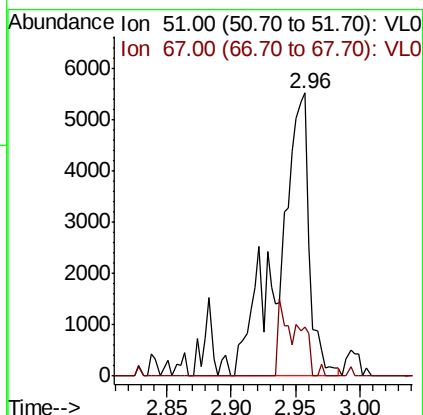
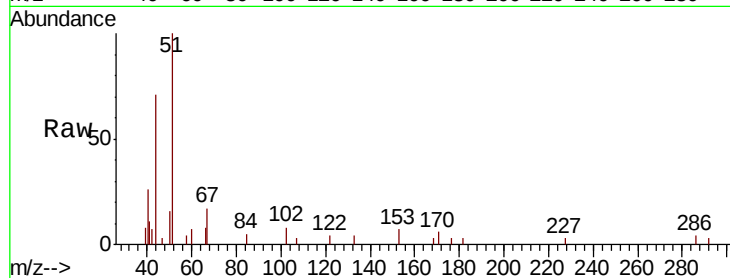




#3
 Chlorodifluoromethane
 Concen: 0.077 ppbv
 RT: 2.96 min Scan# 53
 Delta R.T. 0.01 min
 Lab File: VL035254.D
 Acq: 29 Jul 2020 20:06

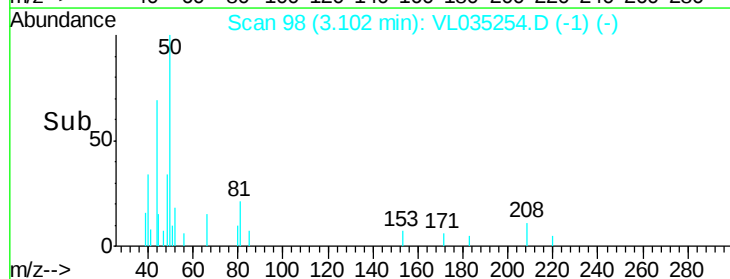
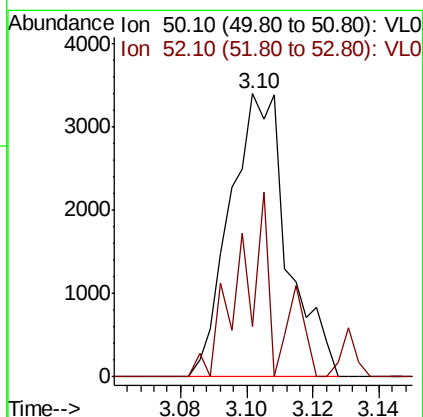
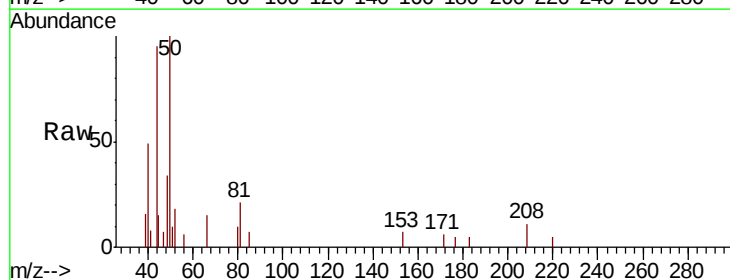
Instrument :
 MSVOA_L
 ClientSampleId :

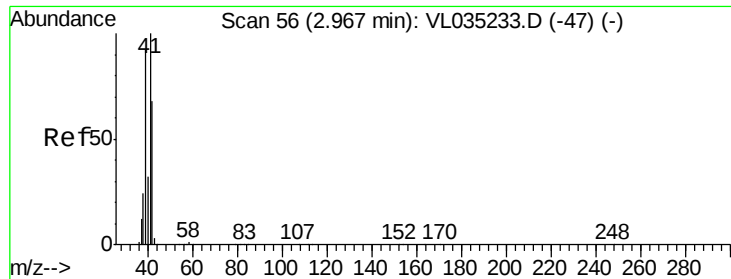
Tot Ion: 51 Resp: 10048
 Ion Ratio Lower Upper
 51 100
 67 15.4 16.6 25.0#



#4
 Chloromethane
 Concen: 0.056 ppbv
 RT: 3.10 min Scan# 98
 Delta R.T. 0.00 min
 Lab File: VL035254.D
 Acq: 29 Jul 2020 20:06

Tgt Ion: 50 Resp: 4104
 Ion Ratio Lower Upper
 50 100
 52 18.0 27.1 40.7#





#9

Propene

Concen: 0.056 ppbv

RT: 2.97 min Scan# 57

Delta R.T. 0.00 min

Lab File: VL035254.D

Acq: 29 Jul 2020 20:06

Instrument :

MSVOA_L

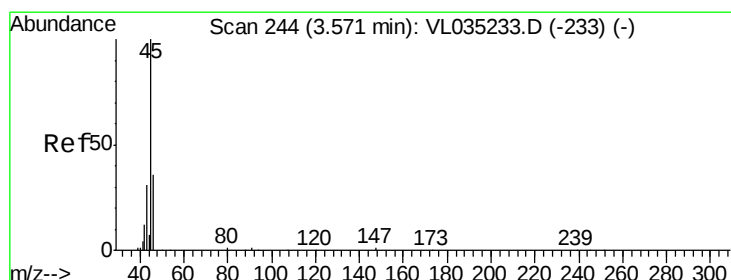
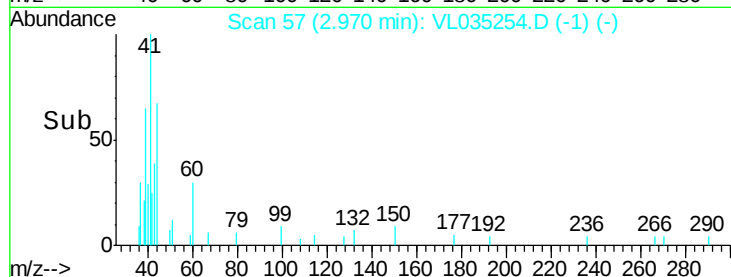
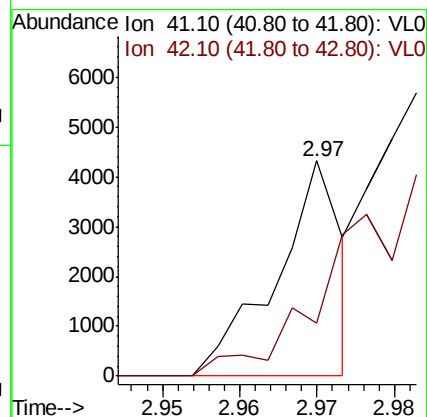
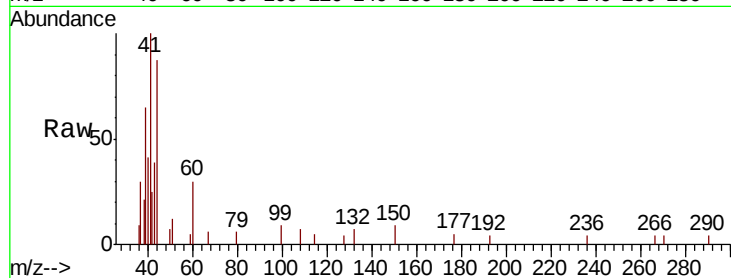
ClientSampleId :

Tot Ion: 41 Resp: 2539

Ion Ratio Lower Upper

41 100

42 0.0 55.0 82.6#



#13

Ethanol

Concen: 10.490 ppbv

RT: 3.58 min Scan# 246

Delta R.T. 0.01 min

Lab File: VL035254.D

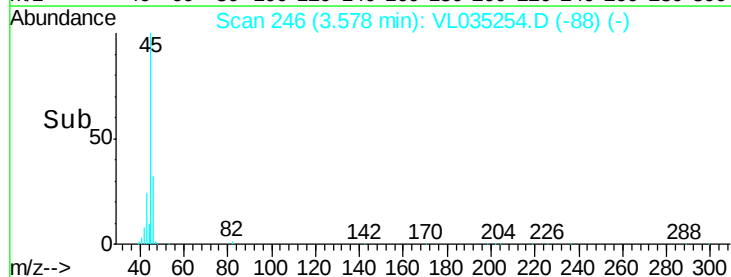
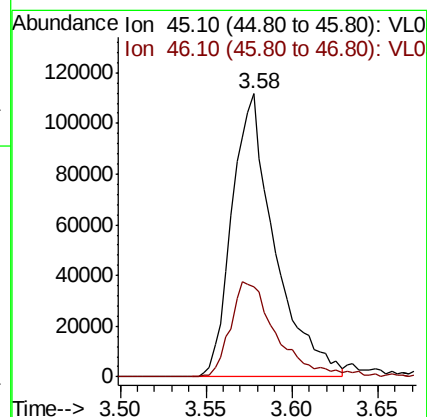
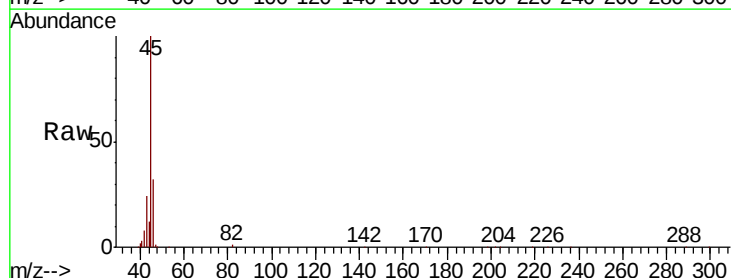
Acq: 29 Jul 2020 20:06

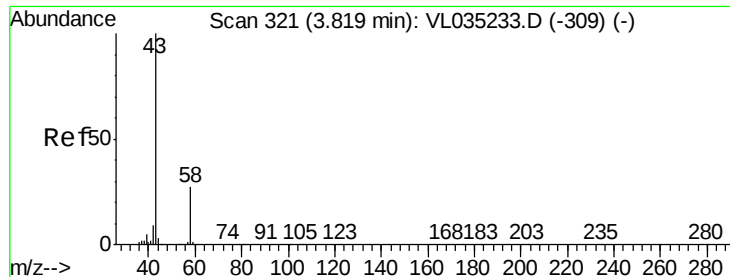
Tgt Ion: 45 Resp: 193111

Ion Ratio Lower Upper

45 100

46 36.8 15.8 63.4





#15

Acetone

Concen: 0.974 ppbv

RT: 3.83 min Scan# 324

Delta R.T. 0.01 min

Lab File: VL035254.D

Acq: 29 Jul 2020 20:06

Instrument :

MSVOA_L

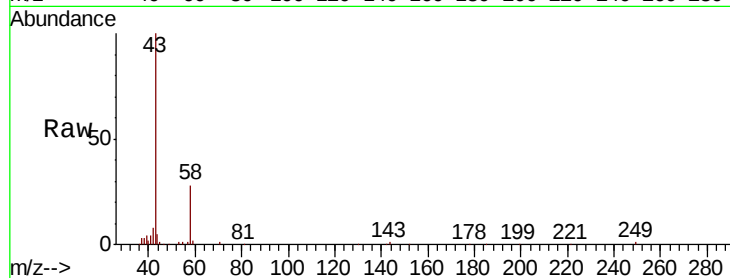
ClientSampleId :

Tot Ion: 43 Resp: 152319

Ion Ratio Lower Upper

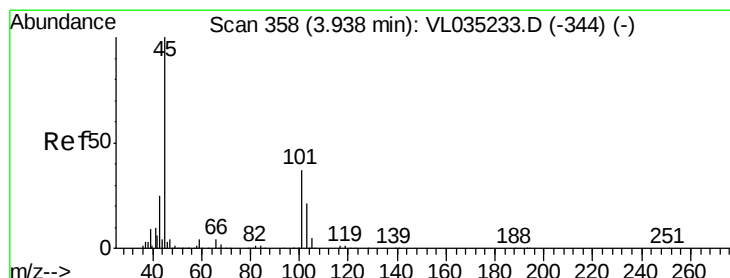
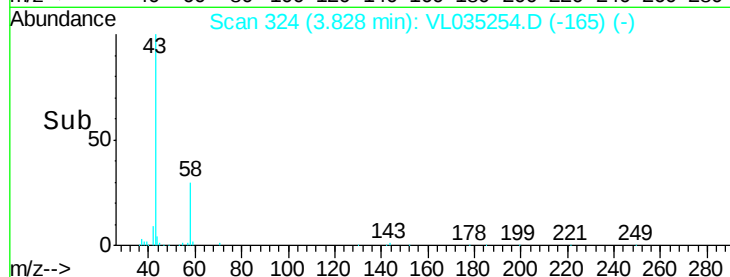
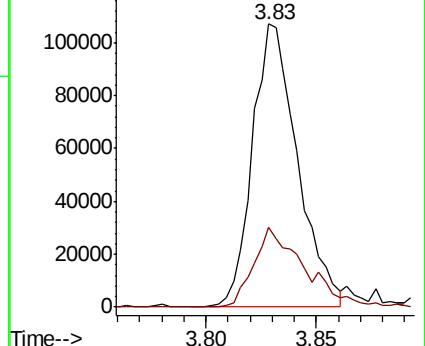
43 100

58 32.2 21.8 32.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#19

Isopropyl Alcohol

Concen: 0.171 ppbv

RT: 3.95 min Scan# 363

Delta R.T. 0.02 min

Lab File: VL035254.D

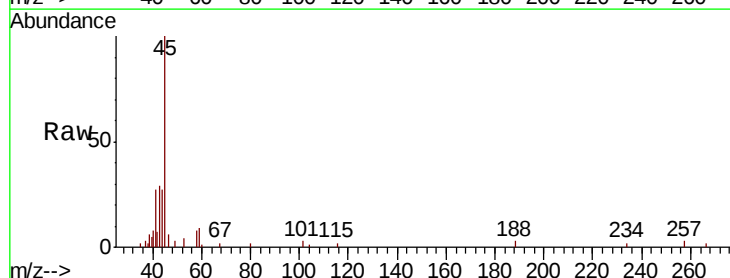
Acq: 29 Jul 2020 20:06

Tgt Ion: 45 Resp: 17668

Ion Ratio Lower Upper

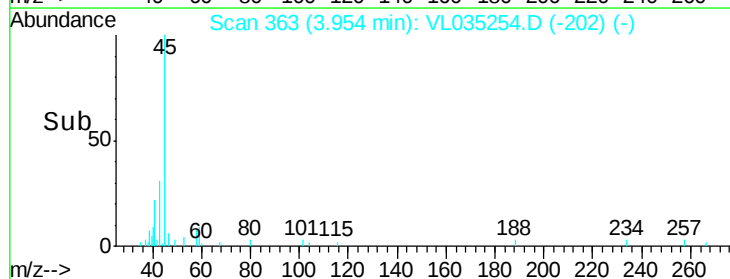
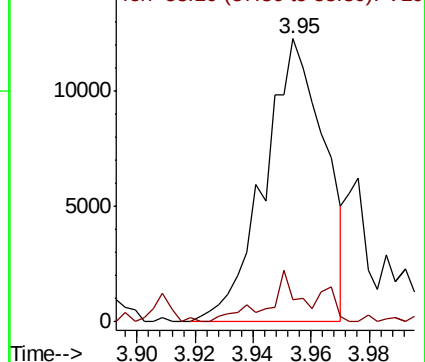
45 100

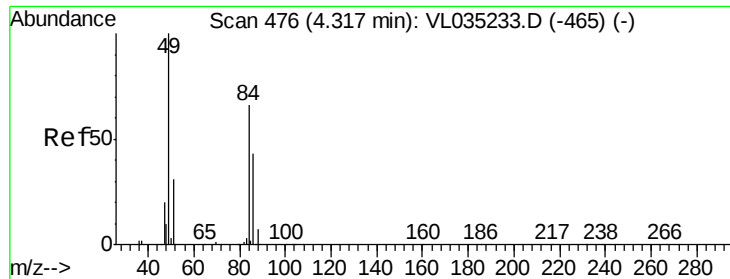
58 9.5 1.9 2.9#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

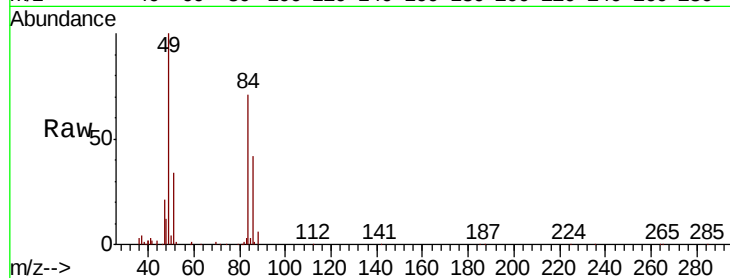




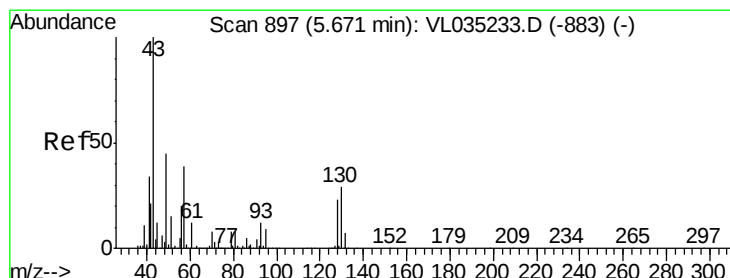
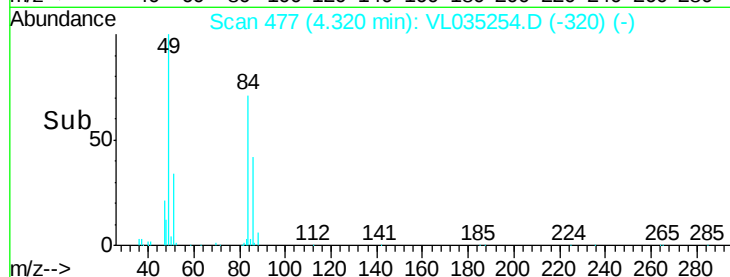
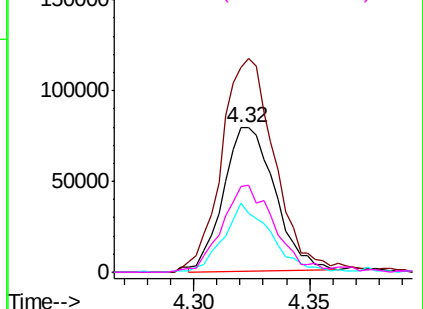
#20
Methylene Chloride
Concen: 1.701 ppbv
RT: 4.32 min Scan# 477
Delta R.T. 0.00 min
Lab File: VL035254.D
Acq: 29 Jul 2020 20:06

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:	84	Resp:	121036
Ion	Ratio	Lower	Upper
84	100		
49	138.4	121.0	181.4
51	48.0	37.7	56.5
86	59.0	52.2	78.4

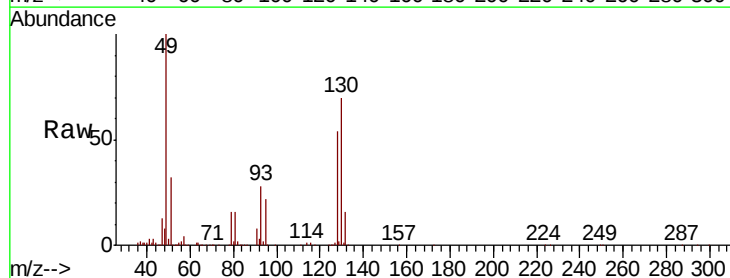


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

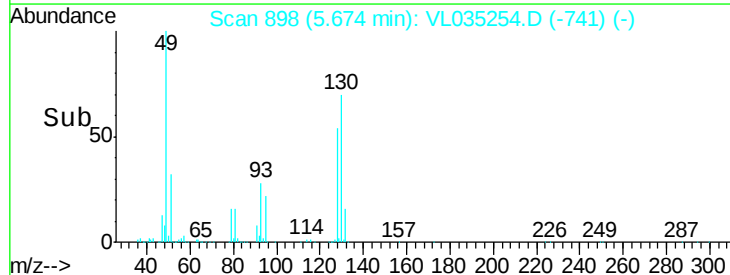
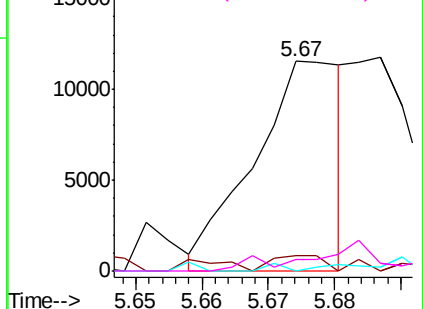


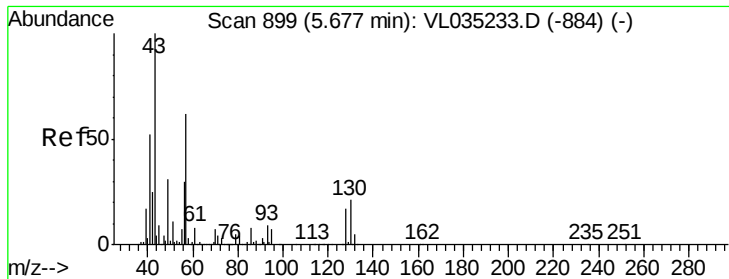
#25
Ethyl Acetate
Concen: 0.044 ppbv
RT: 5.67 min Scan# 898
Delta R.T. 0.00 min
Lab File: VL035254.D
Acq: 29 Jul 2020 20:06

Tgt Ion:	43	Resp:	10660
Ion	Ratio	Lower	Upper
43	100		
45	13.0	8.5	12.7#
61	0.0	8.1	12.1#
70	0.0	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

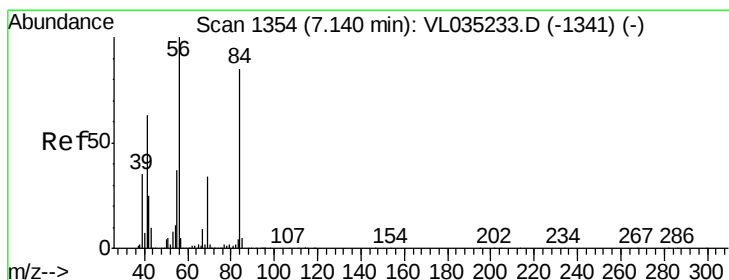
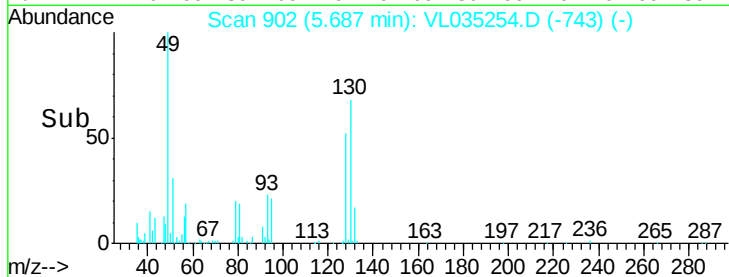
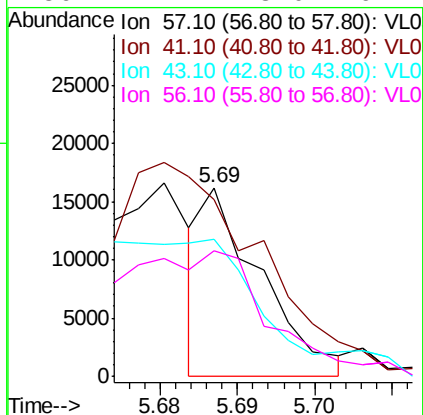
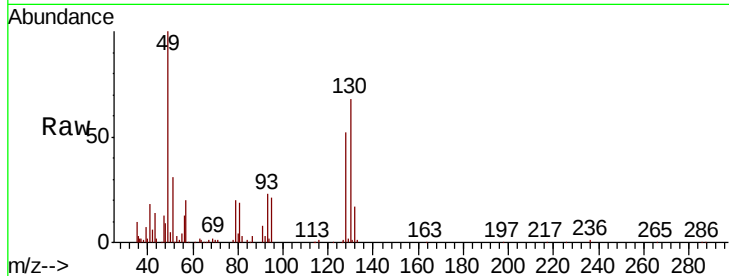




#26
Hexane
Concen: 0.077 ppbv
RT: 5.69 min Scan# 902
Delta R.T. 0.01 min
Lab File: VL035254.D
Acq: 29 Jul 2020 20:06

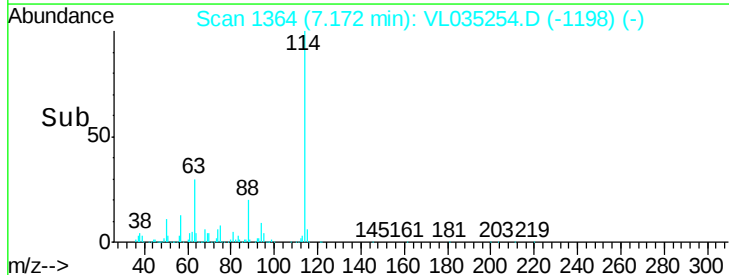
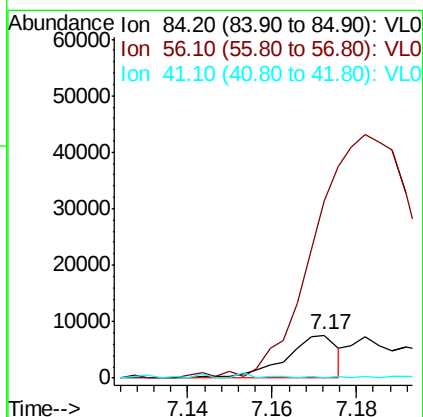
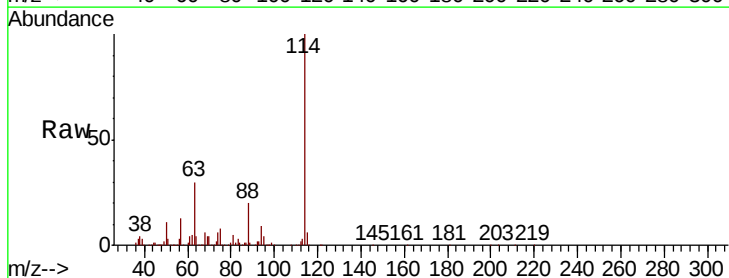
Instrument :
MSVOA_L
ClientSampled :

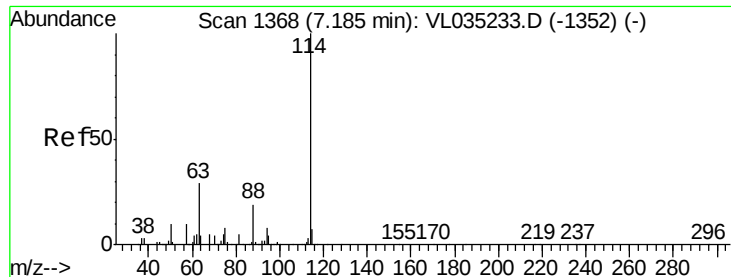
Tot Ion: 57 Resp: 8489
Ion Ratio Lower Upper
57 100
41 0.0 73.9 110.9#
43 255.6 177.6 266.4
56 211.2 43.0 64.4#



#30
Cyclohexane
Concen: 0.083 ppbv
RT: 7.17 min Scan# 1364
Delta R.T. 0.03 min
Lab File: VL035254.D
Acq: 29 Jul 2020 20:06

Tgt Ion: 84 Resp: 6497
Ion Ratio Lower Upper
84 100
56 0.0 104.2 156.2#
41 6.5 63.7 95.5#

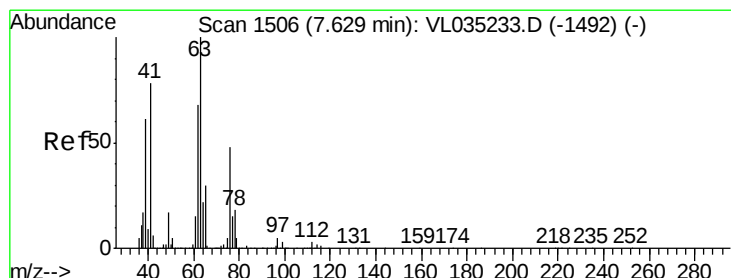
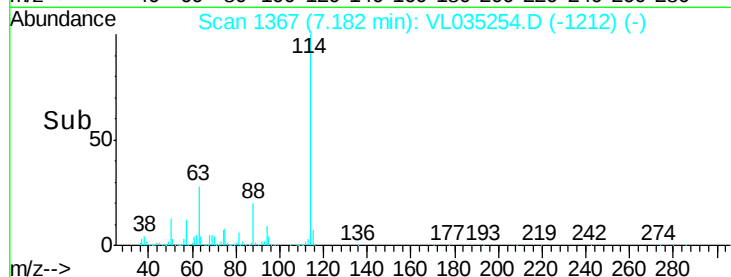
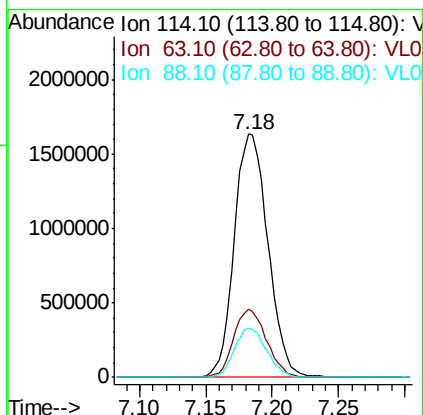
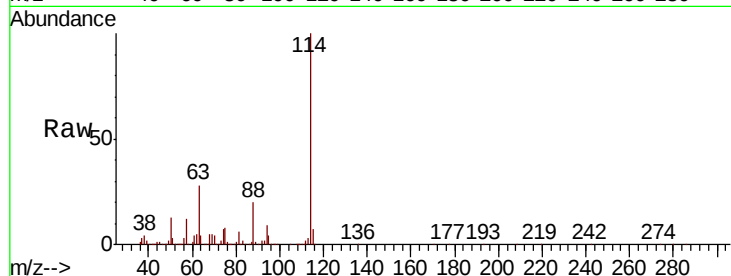




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1367
 Delta R.T. -0.00 min
 Lab File: VL035254.D
 Acq: 29 Jul 2020 20:06

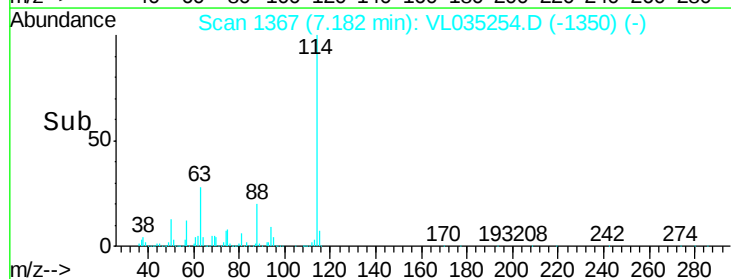
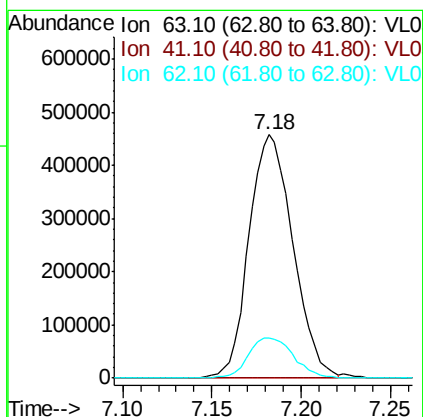
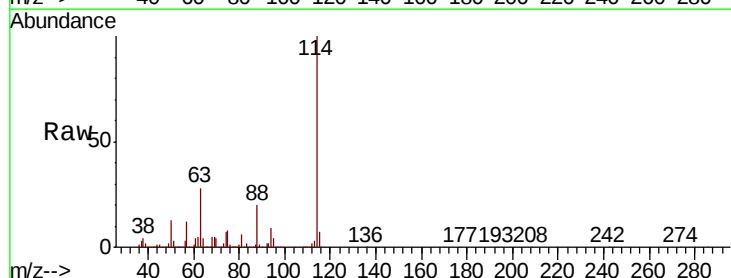
Instrument :
 MSVOA_L
 ClientSampleId :

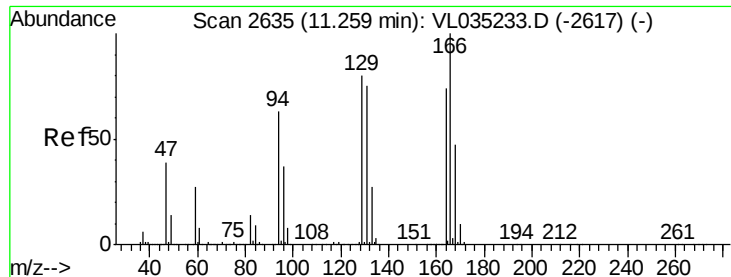
Tot Ion:114 Resp: 2889111
 Ion Ratio Lower Upper
 114 100
 63 27.5 22.2 33.2
 88 19.3 15.4 23.0



#39
 1,2-Dichloropropane
 Concen: 9.843 ppbv
 RT: 7.18 min Scan# 1367
 Delta R.T. -0.45 min
 Lab File: VL035254.D
 Acq: 29 Jul 2020 20:06

Tgt Ion: 63 Resp: 788512
 Ion Ratio Lower Upper
 63 100
 41 0.0 62.2 93.4#
 62 16.5 54.2 81.2#





#52

Tetrachloroethene

Concen: 0.045 ppbv

RT: 11.25 min Scan# 2631

Delta R.T. -0.01 min

Lab File: VL035254.D

Acq: 29 Jul 2020 20:06

Instrument :

MSVOA_L

ClientSampled :

Tot Ion:164 Resp: 3417

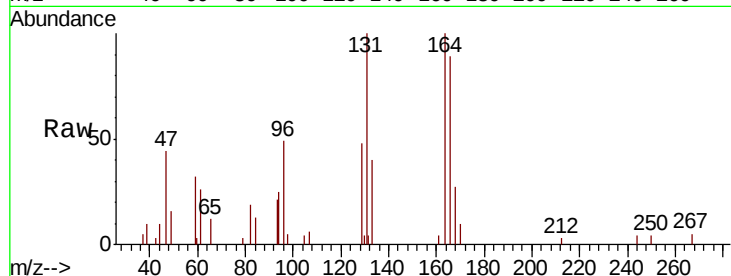
Ion Ratio Lower Upper

164 100

166 103.5 107.5 161.3#

129 7.5 86.0 129.0#

131 106.4 80.3 120.5

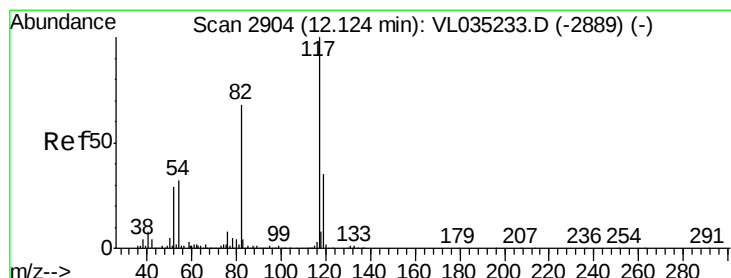
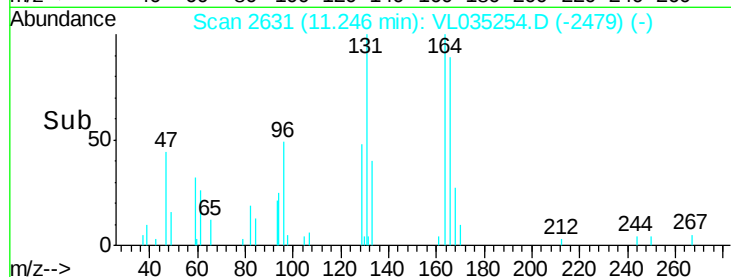
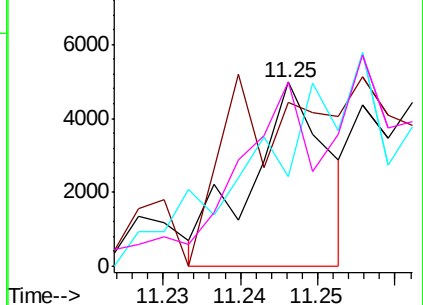


Abundance Ion 163.90 (163.60 to 164.60): V

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



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.12 min Scan# 2903

Delta R.T. -0.00 min

Lab File: VL035254.D

Acq: 29 Jul 2020 20:06

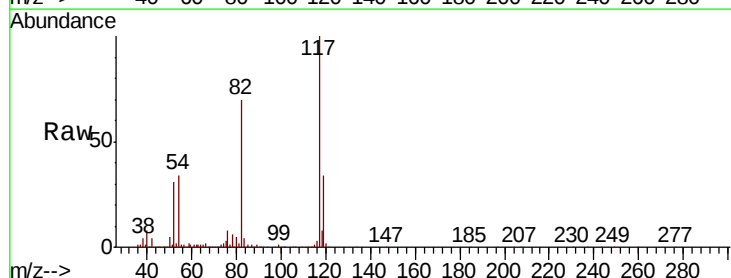
Tgt Ion:117 Resp: 2700306

Ion Ratio Lower Upper

117 100

82 69.4 52.4 78.6

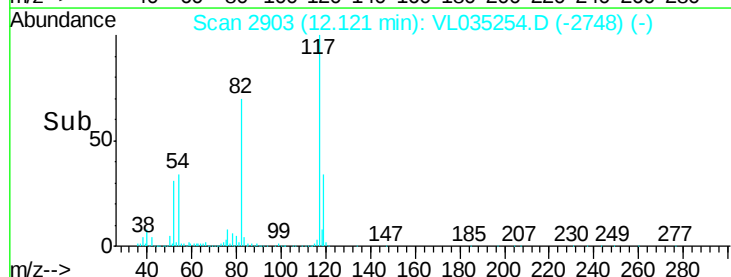
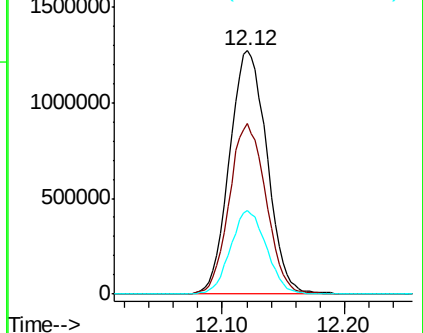
119 33.2 24.6 36.8

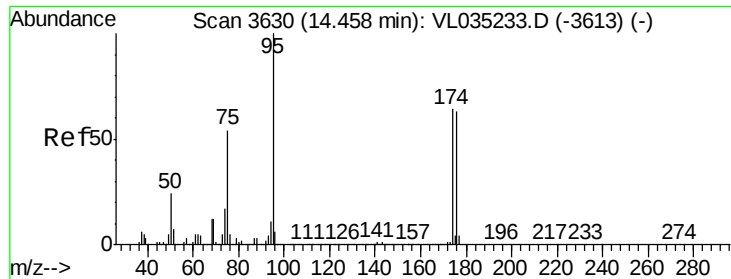


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 9.962 ppbv

RT: 14.46 min Scan# 3630

Delta R.T. 0.00 min

Lab File: VL035254.D

Acq: 29 Jul 2020 20:06

Instrument :

MSVOA_L

ClientSampleId :

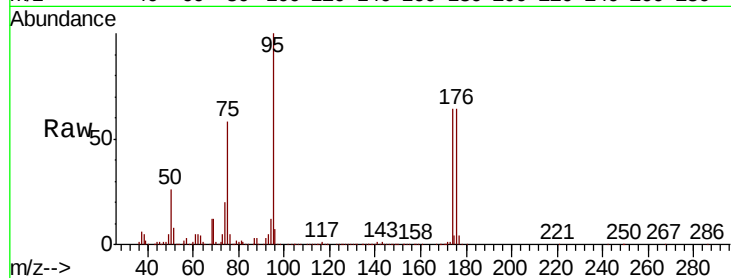
Tot Ion: 95 Resp: 2149621

Ion Ratio Lower Upper

95 100

174 66.3 52.7 79.1

175 4.7 3.9 5.9



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

