

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL072920\
 Data File : VL035258.D
 Acq On : 29 Jul 2020 22:50
 Operator : SY/AP
 Sample : L3463-03DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jul 30 02:53:36 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL072920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed 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	1224033	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3006305	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	2776611	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.46	95	2246673	10.13	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.30%

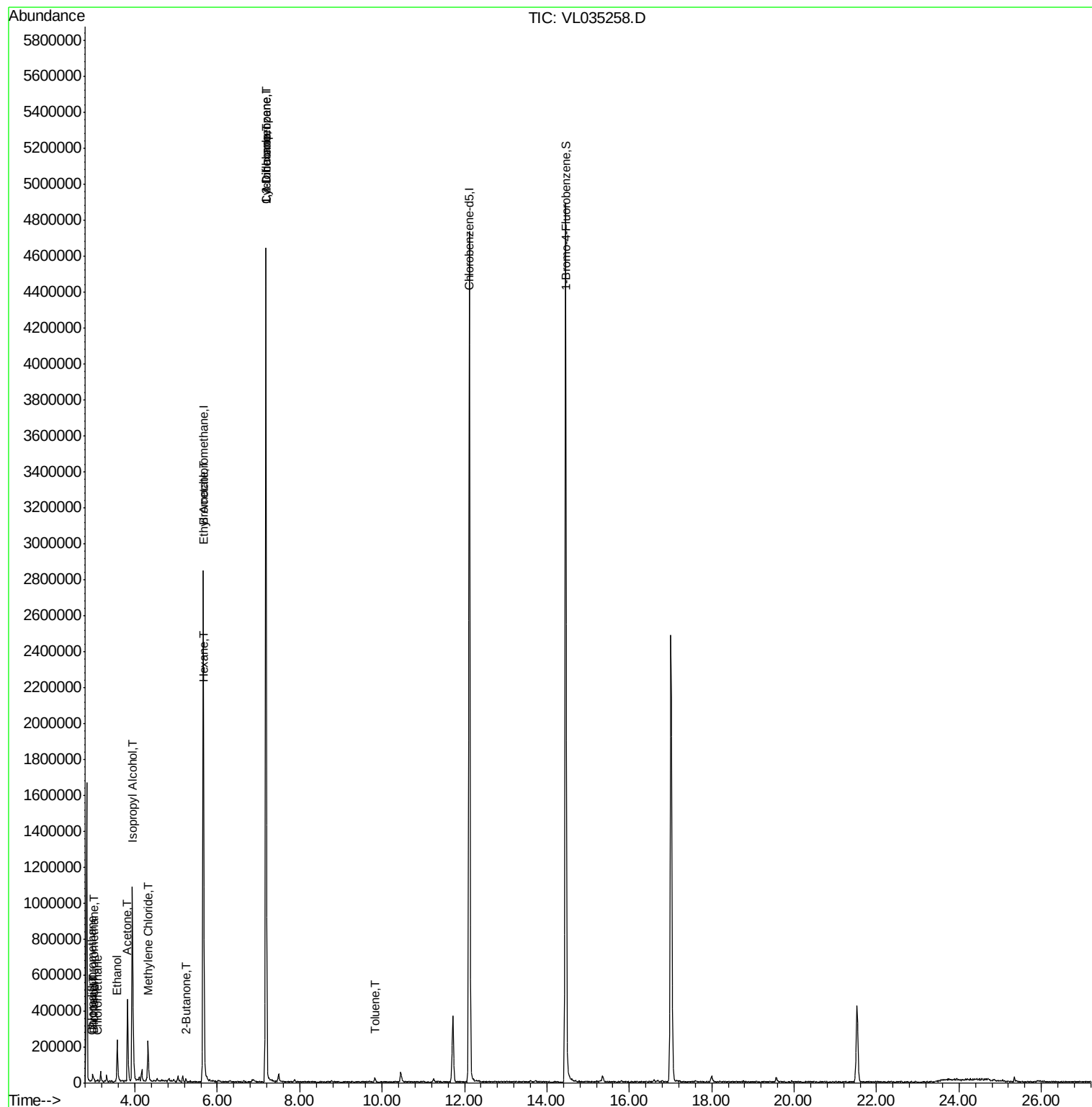
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.01	85	10500	0.072 ppbv	98
3) Chlorodifluoromethane	2.95	51	9234	0.068 ppbv	91
4) Chloromethane	3.10	50	2545	0.033 ppbv #	48
9) Propene	2.97	41	2867	0.061 ppbv #	1
13) Ethanol	3.56	45	218942	11.390 ppbv	95
15) Acetone	3.82	43	421014	2.579 ppbv	97
19) Isopropyl Alcohol	3.93	45	1110704	10.315 ppbv	100
20) Methylene Chloride	4.32	84	72749	0.979 ppbv	97
25) Ethyl Acetate	5.67	43	9878	0.039 ppbv #	73
26) Hexane	5.68	57	19946	0.173 ppbv #	49
30) Cyclohexane	7.17	84	6823	0.083 ppbv #	5
34) 2-Butanone	5.23	43	6388	0.042 ppbv #	27
39) 1,2-Dichloropropane	7.18	63	808942	9.704 ppbv #	23
53) Toluene	9.83	91	7056	0.032 ppbv #	24

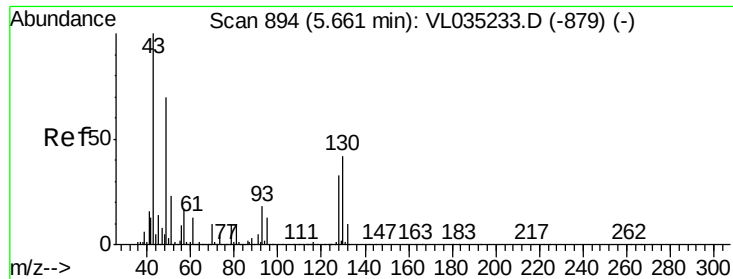
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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

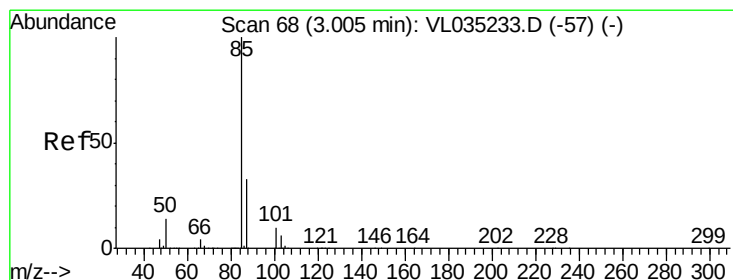
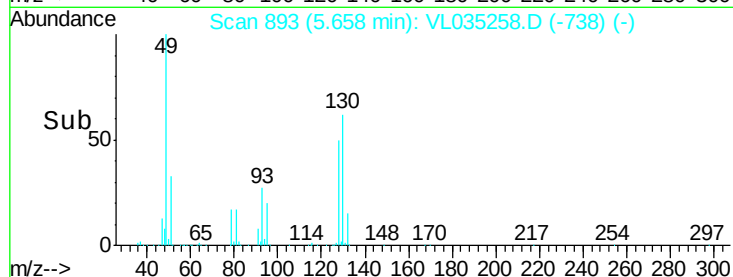
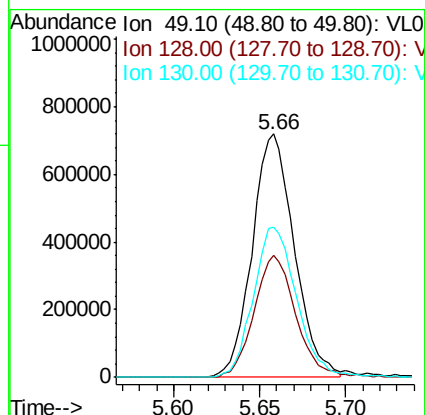
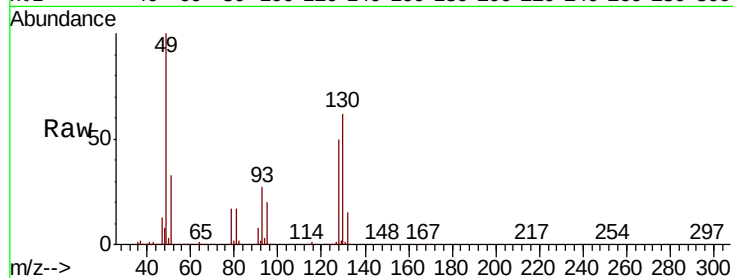




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.66 min Scan# 893
Delta R.T. -0.00 min
Lab File: VL035258.D
Acq: 29 Jul 2020 22:50

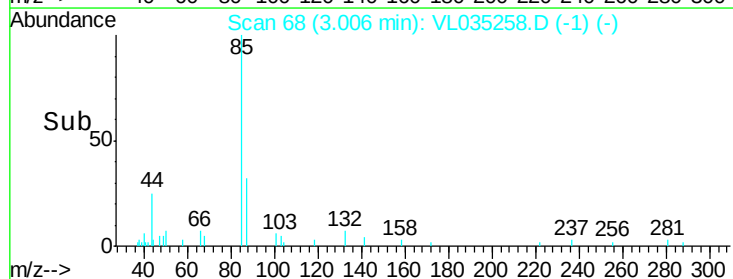
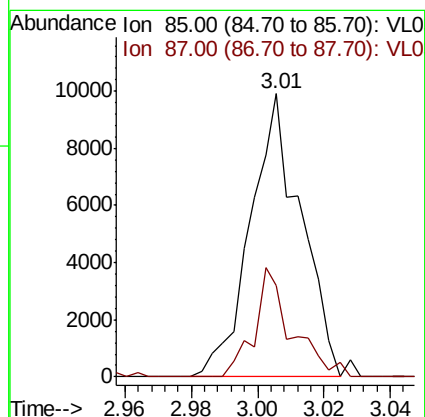
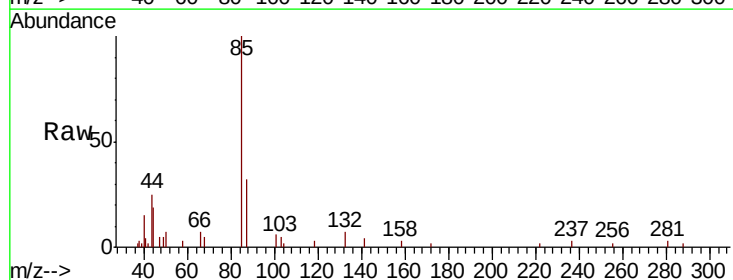
Instrument :
MSVOA_L
ClientSampleId :

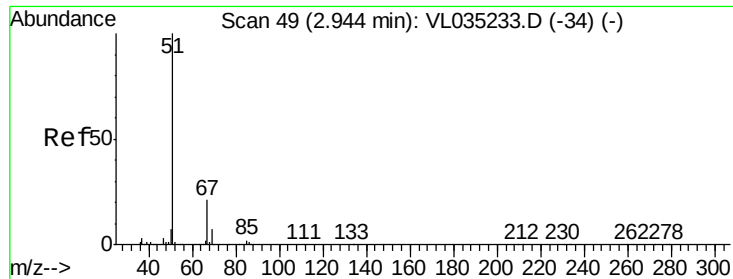
Tot Ion: 49 Resp: 1224033
Ion Ratio Lower Upper
49 100
128 50.2 24.0 72.0
130 64.1 30.7 92.1



#2
Dichlorodifluoromethane
Concen: 0.072 ppbv
RT: 3.01 min Scan# 68
Delta R.T. 0.00 min
Lab File: VL035258.D
Acq: 29 Jul 2020 22:50

Tgt Ion: 85 Resp: 10500
Ion Ratio Lower Upper
85 100
87 32.1 26.7 40.1

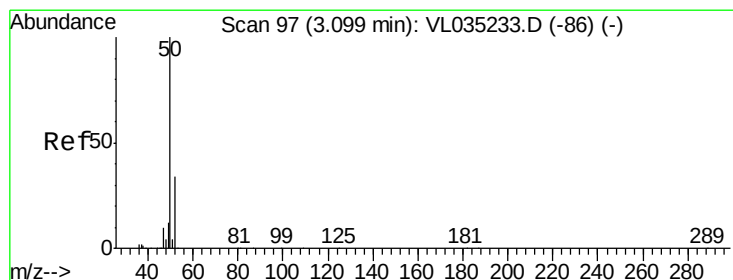
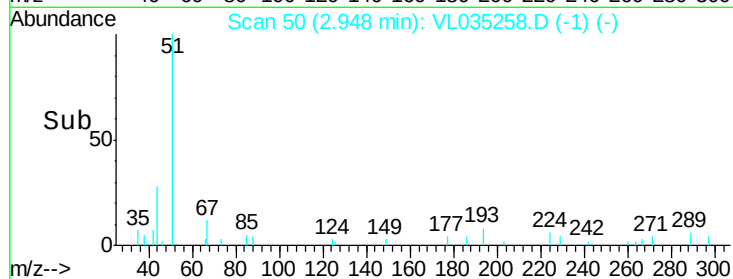
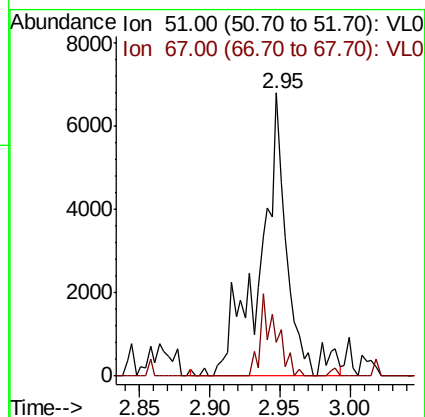
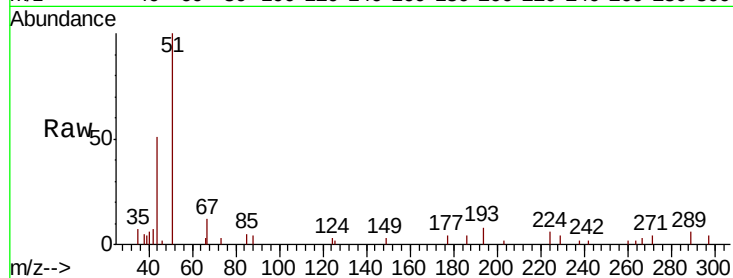




#3
Chlorodifluoromethane
Concen: 0.068 ppbv
RT: 2.95 min Scan# 50
Delta R.T. 0.00 min
Lab File: VL035258.D
Acq: 29 Jul 2020 22:50

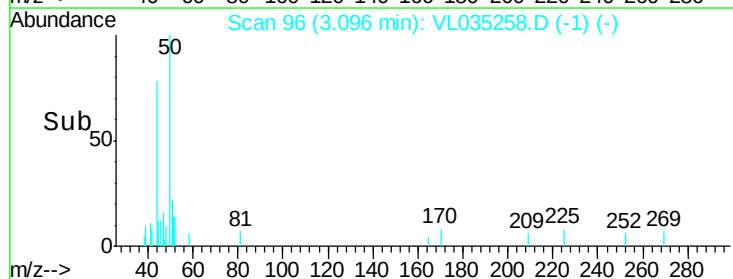
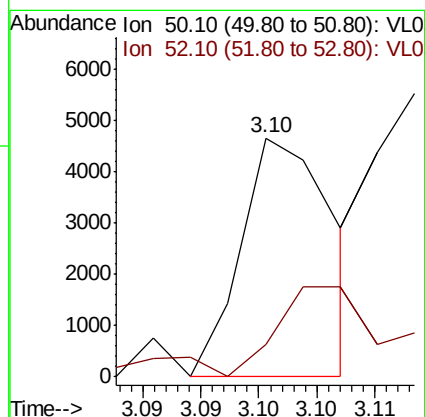
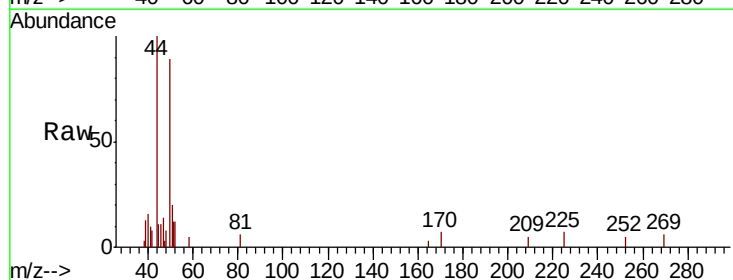
Instrument :
MSVOA_L
ClientSampleId :

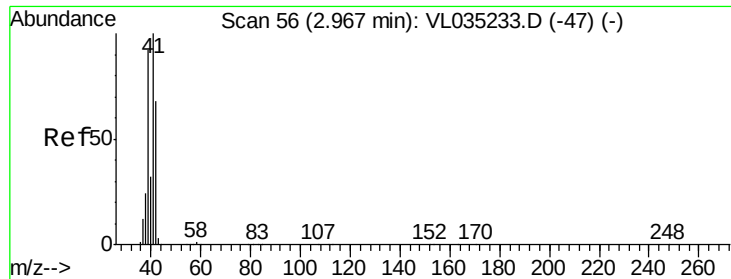
Tot Ion: 51 Resp: 9234
Ion Ratio Lower Upper
51 100
67 16.8 16.6 25.0



#4
Chloromethane
Concen: 0.033 ppbv
RT: 3.10 min Scan# 96
Delta R.T. -0.00 min
Lab File: VL035258.D
Acq: 29 Jul 2020 22:50

Tgt Ion: 50 Resp: 2545
Ion Ratio Lower Upper
50 100
52 4.3 27.1 40.7#





#9

Propene

Concen: 0.061 ppbv

RT: 2.97 min Scan# 57

Delta R.T. 0.00 min

Lab File: VL035258.D

Acq: 29 Jul 2020 22:50

Instrument :

MSVOA_L

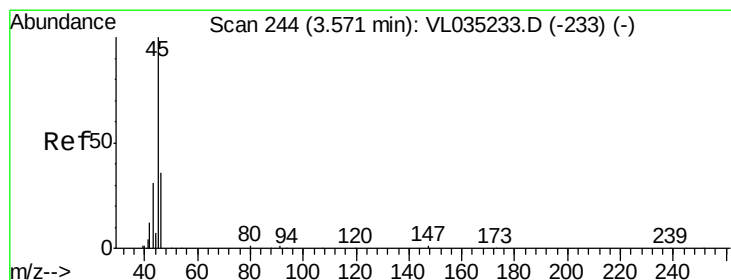
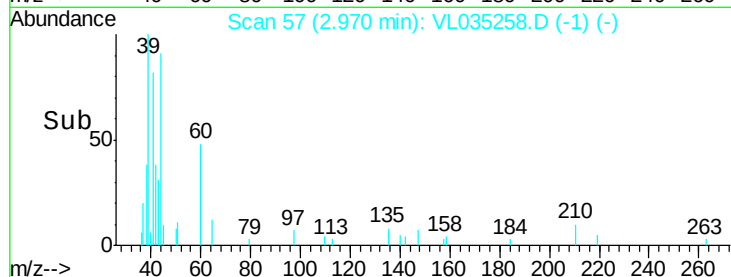
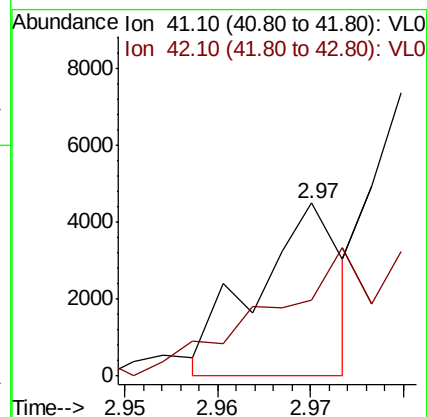
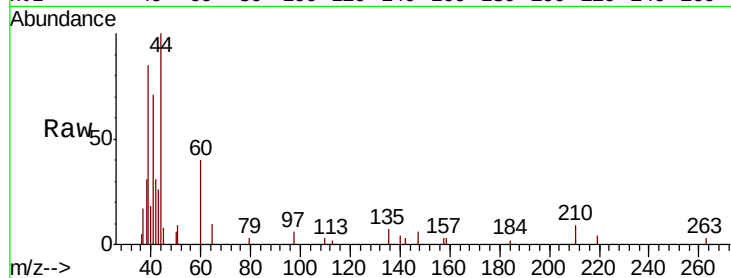
ClientSampled :

Tot Ion: 41 Resp: 2867

Ion Ratio Lower Upper

41 100

42 169.8 55.0 82.6#



#13

Ethanol

Concen: 11.390 ppbv

RT: 3.56 min Scan# 242

Delta R.T. -0.01 min

Lab File: VL035258.D

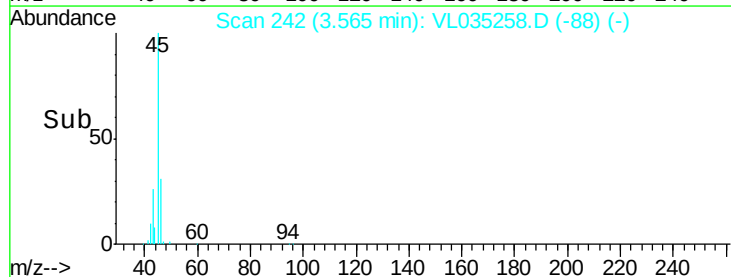
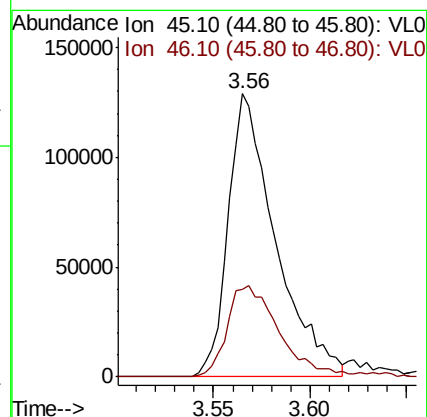
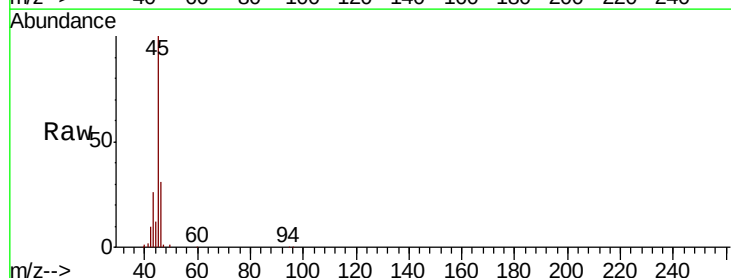
Acq: 29 Jul 2020 22:50

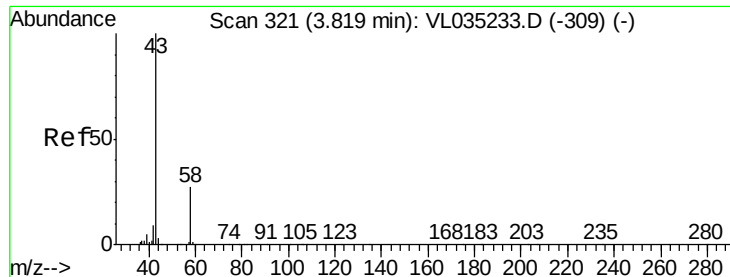
Tgt Ion: 45 Resp: 218942

Ion Ratio Lower Upper

45 100

46 36.5 15.8 63.4

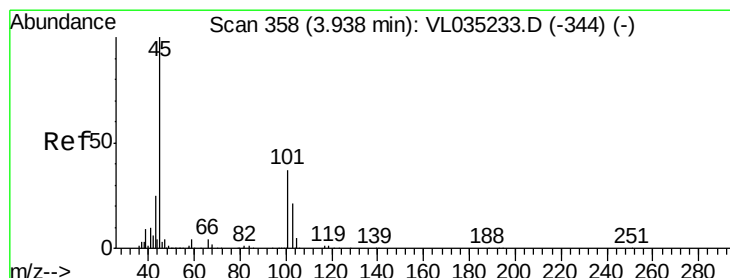
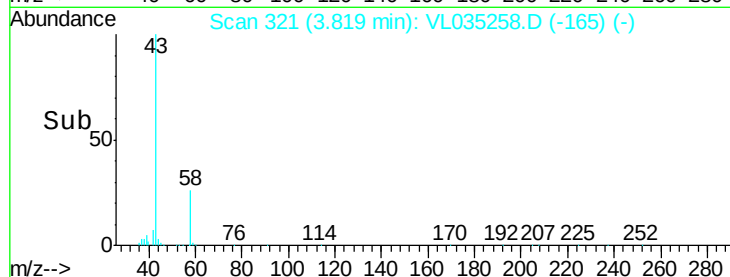
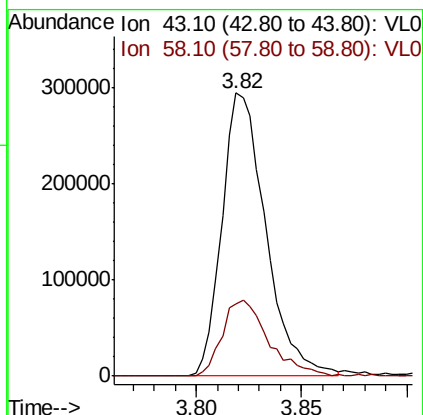
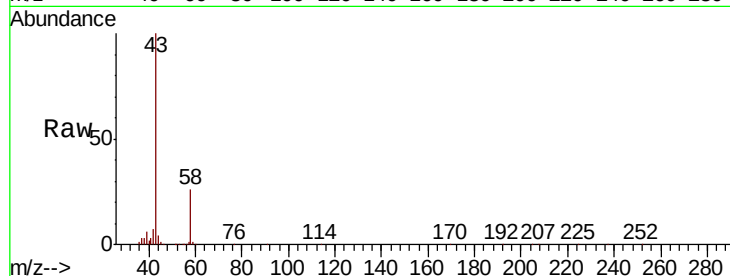




#15
Acetone
Concen: 2.579 ppbv
RT: 3.82 min Scan# 321
Delta R.T. 0.00 min
Lab File: VL035258.D
Acq: 29 Jul 2020 22:50

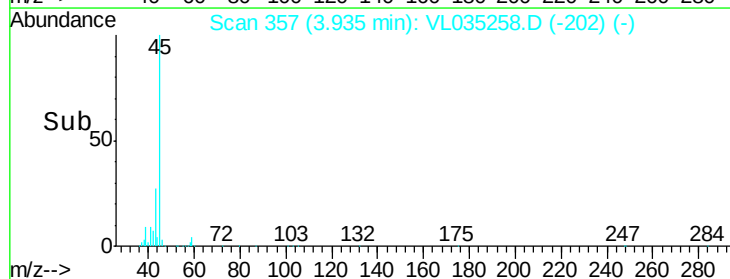
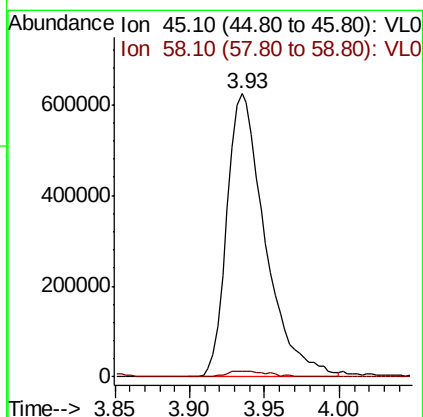
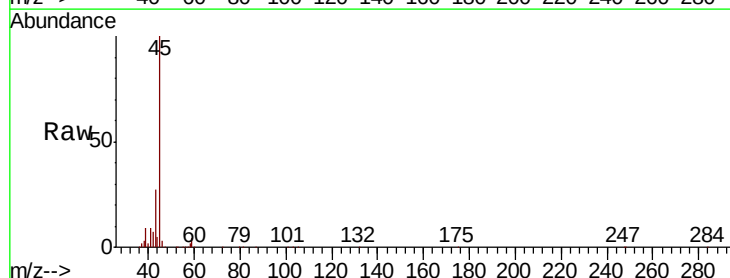
Instrument :
MSVOA_L
ClientSampleId :

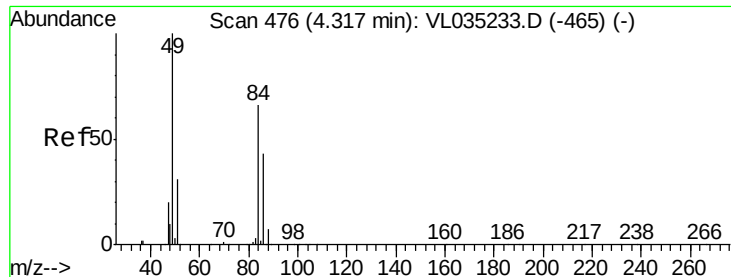
Tot Ion: 43 Resp: 421014
Ion Ratio Lower Upper
43 100
58 28.9 21.8 32.6



#19
Isopropyl Alcohol
Concen: 10.315 ppbv
RT: 3.93 min Scan# 357
Delta R.T. -0.00 min
Lab File: VL035258.D
Acq: 29 Jul 2020 22:50

Tgt Ion: 45 Resp: 1110704
Ion Ratio Lower Upper
45 100
58 2.5 1.9 2.9

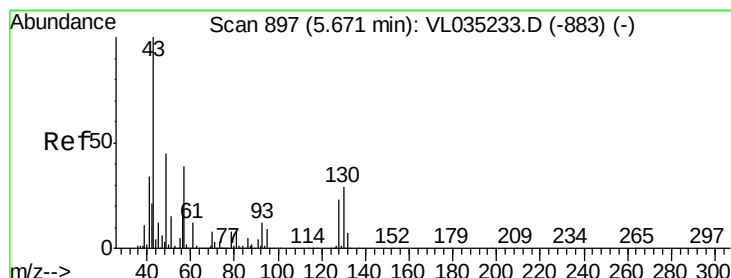
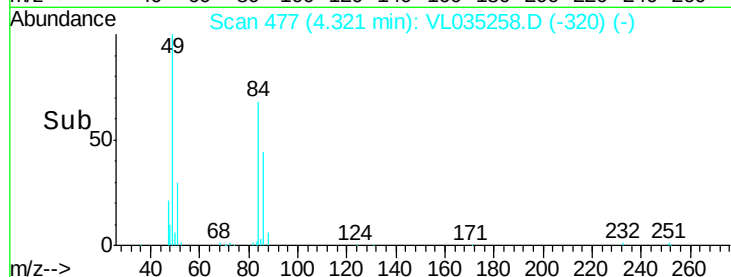
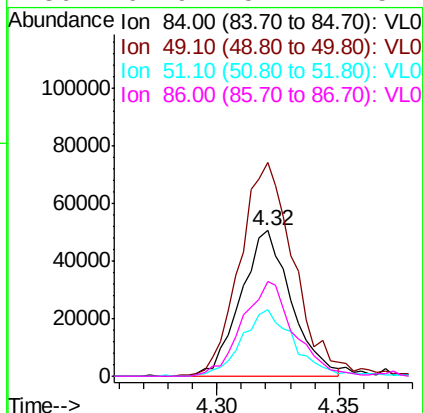
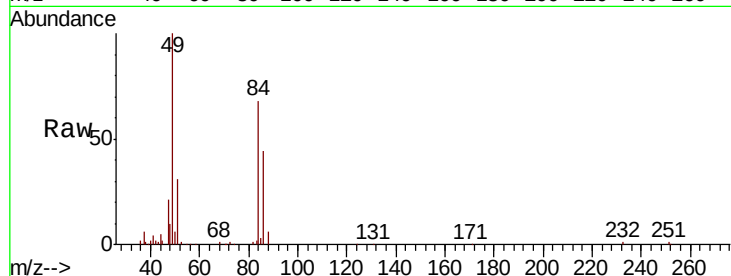




#20
Methylene Chloride
Concen: 0.979 ppbv
RT: 4.32 min Scan# 477
Delta R.T. 0.00 min
Lab File: VL035258.D
Acq: 29 Jul 2020 22:50

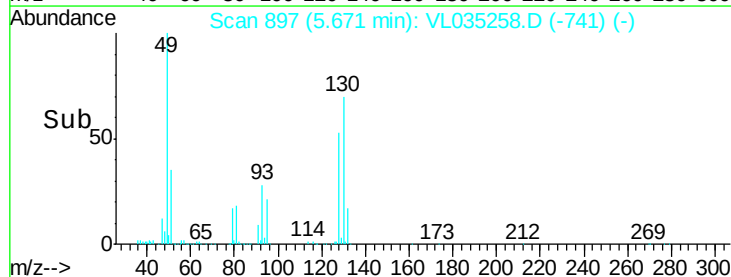
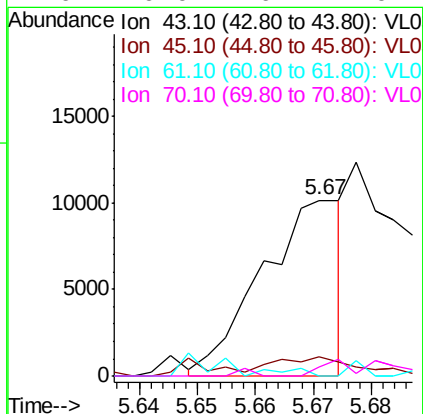
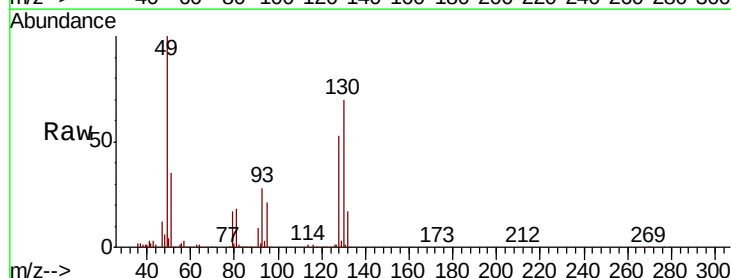
Instrument :
MSVOA_L
ClientSampled :

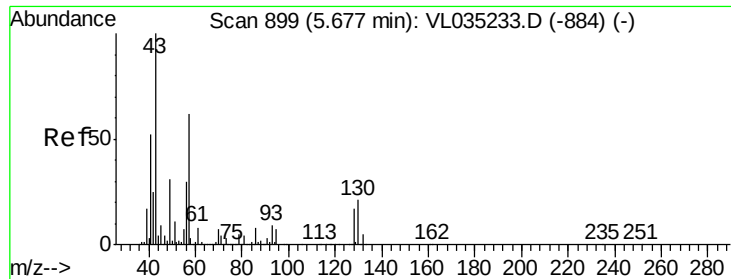
Tot Ion: 84 Resp: 72749
Ion Ratio Lower Upper
84 100
49 146.0 121.0 181.4
51 45.4 37.7 56.5
86 64.9 52.2 78.4



#25
Ethyl Acetate
Concen: 0.039 ppbv
RT: 5.67 min Scan# 897
Delta R.T. 0.00 min
Lab File: VL035258.D
Acq: 29 Jul 2020 22:50

Tgt Ion: 43 Resp: 9878
Ion Ratio Lower Upper
43 100
45 21.6 8.5 12.7#
61 0.0 8.1 12.1#
70 0.0 6.2 9.4#

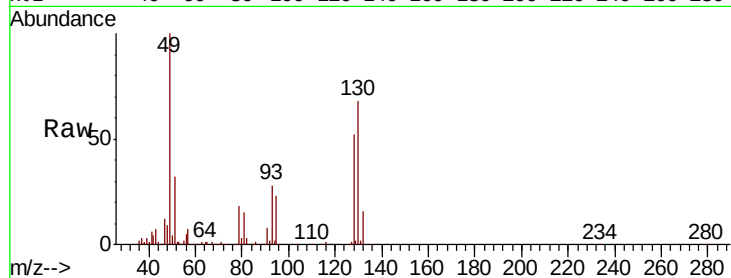




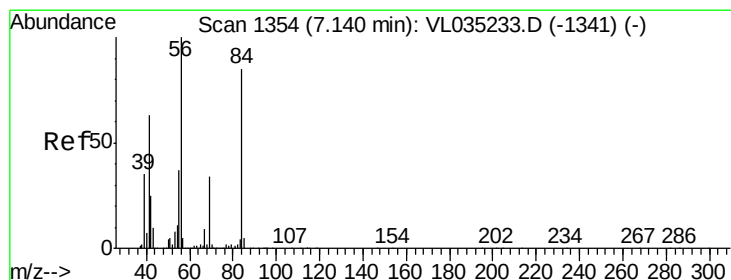
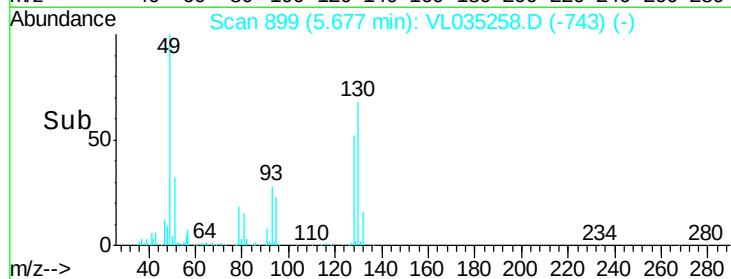
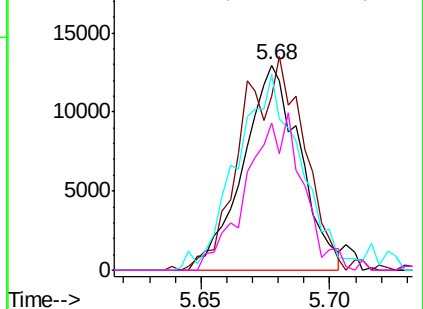
#26
Hexane
Concen: 0.173 ppbv
RT: 5.68 min Scan# 899
Delta R.T. 0.00 min
Lab File: VL035258.D
Acq: 29 Jul 2020 22:50

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 57 Resp: 19946
Ion Ratio Lower Upper
57 100
41 114.7 73.9 110.9#
43 112.3 177.6 266.4#
56 75.3 43.0 64.4#

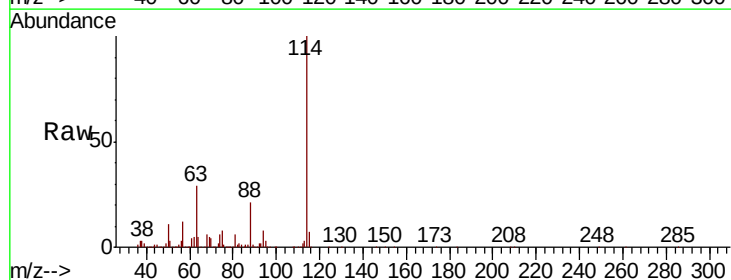


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

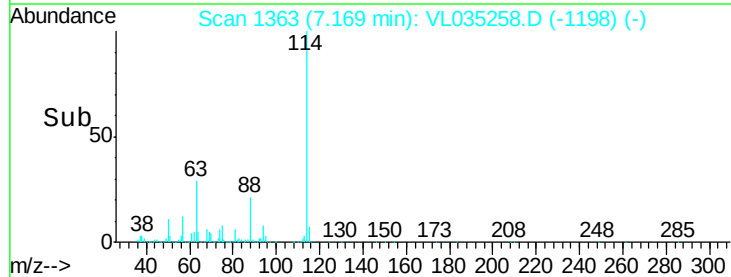
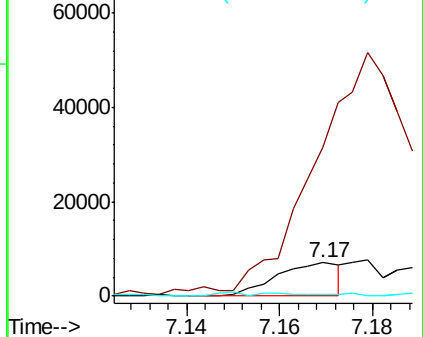


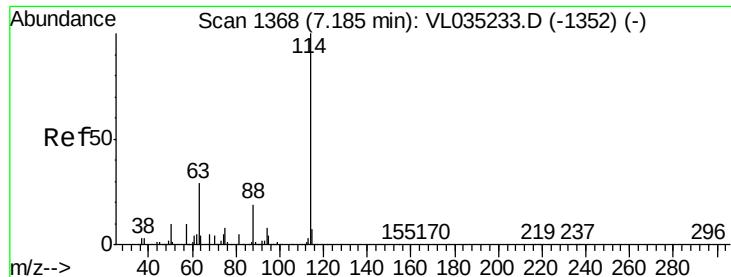
#30
Cyclohexane
Concen: 0.083 ppbv
RT: 7.17 min Scan# 1363
Delta R.T. 0.03 min
Lab File: VL035258.D
Acq: 29 Jul 2020 22:50

Tgt Ion: 84 Resp: 6823
Ion Ratio Lower Upper
84 100
56 0.0 104.2 156.2#
41 20.1 63.7 95.5#



Abundance Ion 84.20 (83.90 to 84.90): VL0
Ion 56.10 (55.80 to 56.80): VL0
Ion 41.10 (40.80 to 41.80): VL0

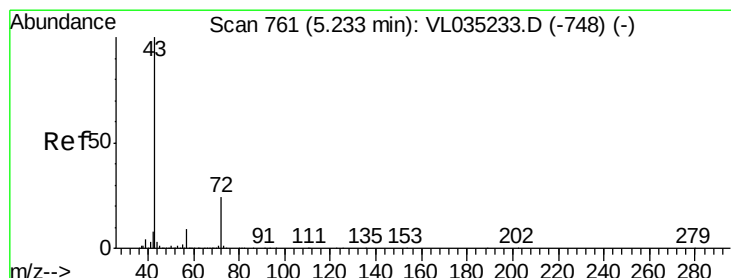
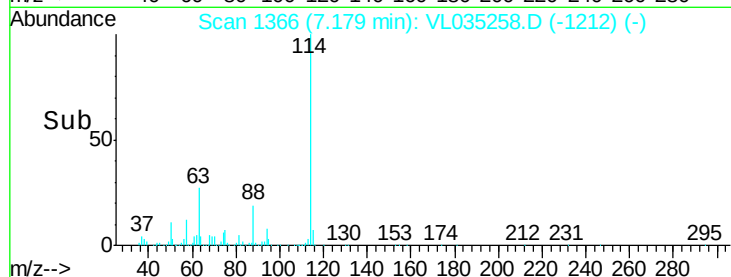
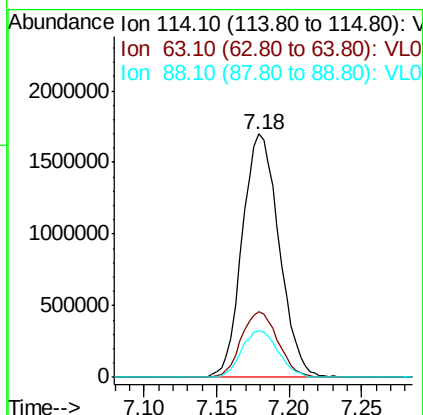
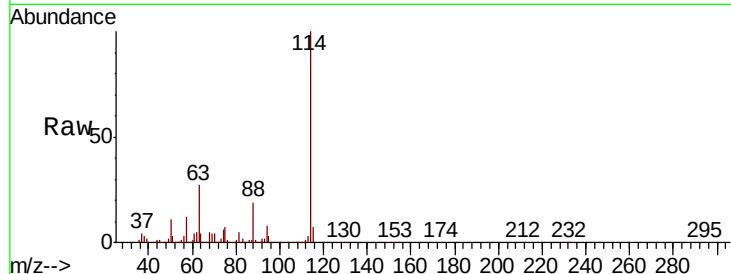




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1366
 Delta R.T. -0.01 min
 Lab File: VL035258.D
 Acq: 29 Jul 2020 22:50

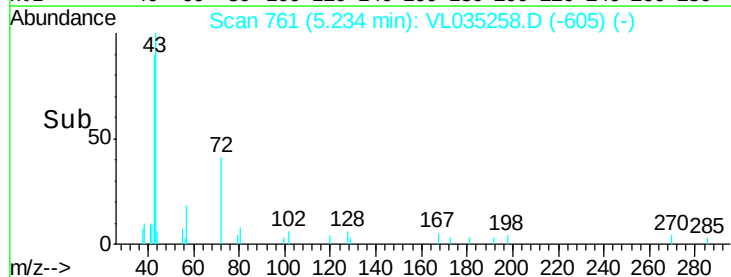
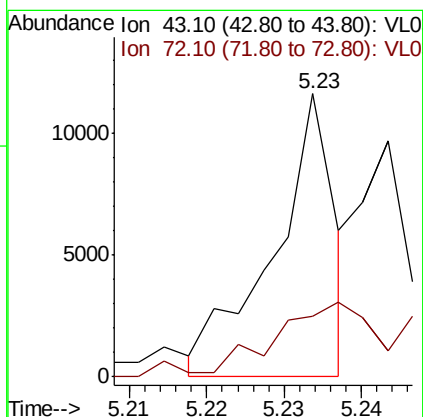
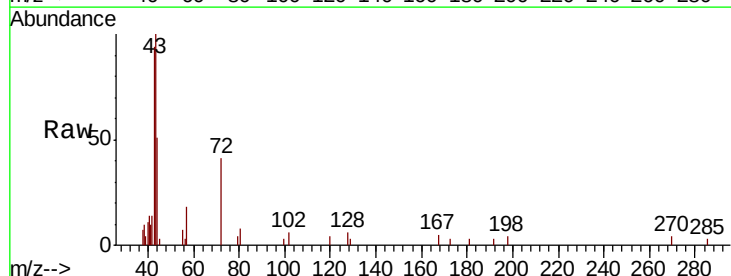
Instrument :
 MSVOA_L
 ClientSampleId :

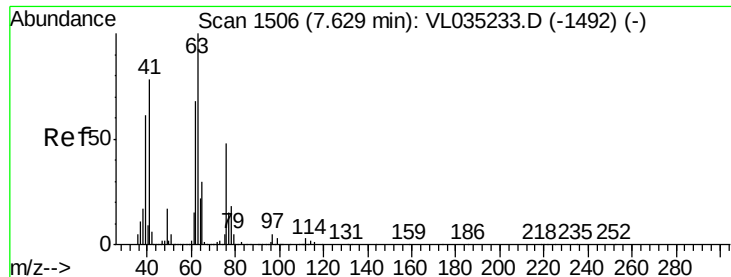
Tot Ion:114 Resp: 3006305
 Ion Ratio Lower Upper
 114 100
 63 27.0 22.2 33.2
 88 19.2 15.4 23.0



#34
 2-Butanone
 Concen: 0.042 ppbv
 RT: 5.23 min Scan# 761
 Delta R.T. 0.00 min
 Lab File: VL035258.D
 Acq: 29 Jul 2020 22:50

Tgt Ion: 43 Resp: 6388
 Ion Ratio Lower Upper
 43 100
 72 60.2 19.2 28.8#





#39

1,2-Dichloropropane

Concen: 9.704 ppbv

RT: 7.18 min Scan# 1366

Delta R.T. -0.45 min

Lab File: VL035258.D

Acq: 29 Jul 2020 22:50

Instrument :

MSVOA_L

ClientSampleId :

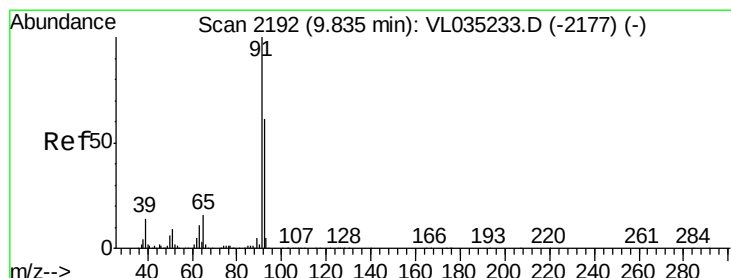
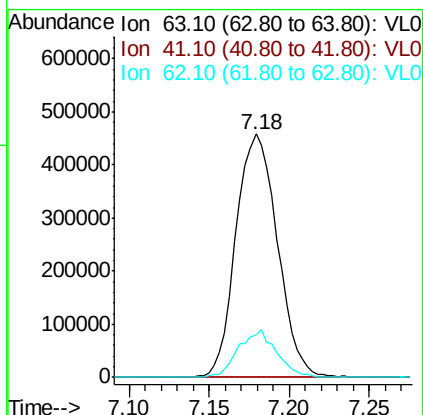
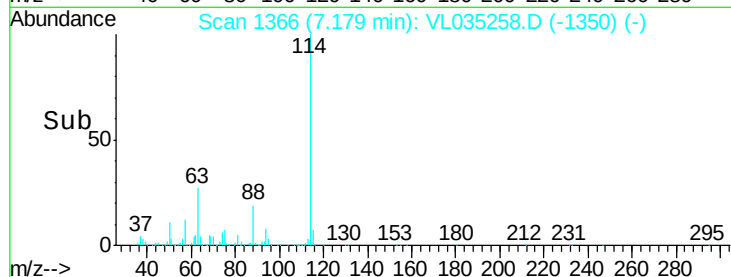
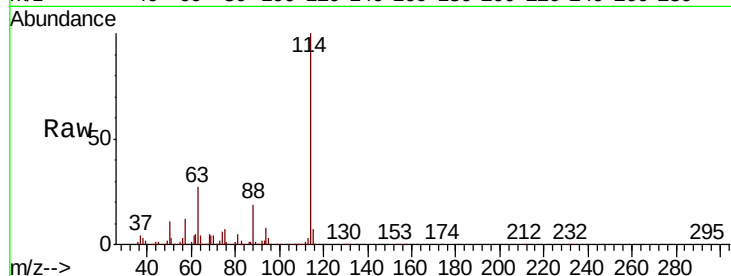
Tot Ion: 63 Resp: 808942

Ion Ratio Lower Upper

63 100

41 0.0 62.2 93.4#

62 17.3 54.2 81.2#



#53

Toluene

Concen: 0.032 ppbv

RT: 9.83 min Scan# 2189

Delta R.T. -0.01 min

Lab File: VL035258.D

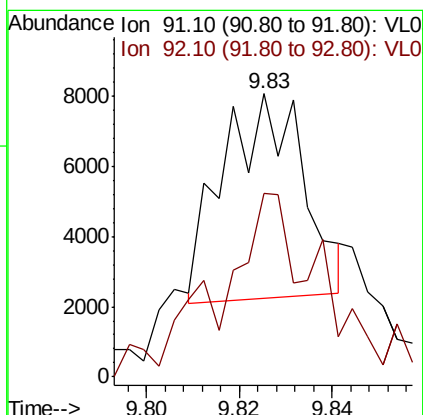
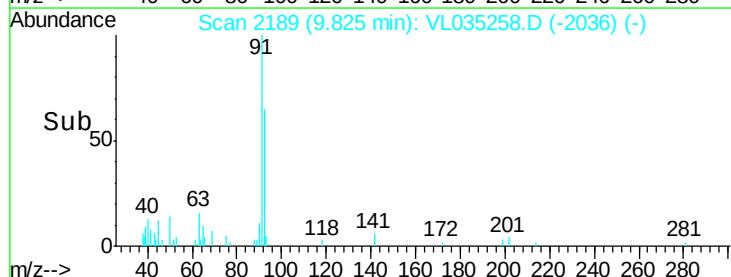
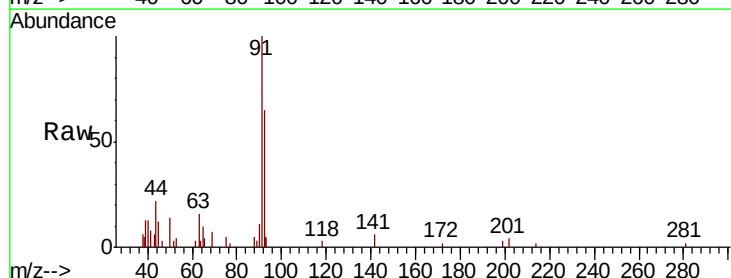
Acq: 29 Jul 2020 22:50

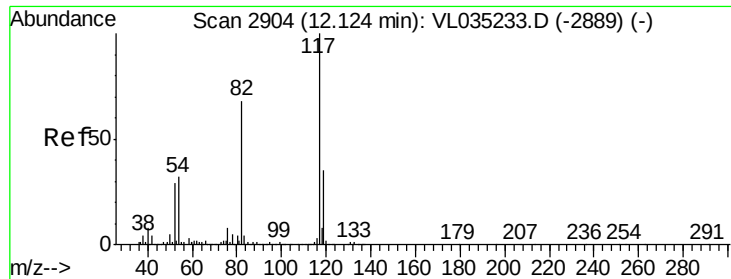
Tgt Ion: 91 Resp: 7056

Ion Ratio Lower Upper

91 100

92 118.7 48.5 72.7#

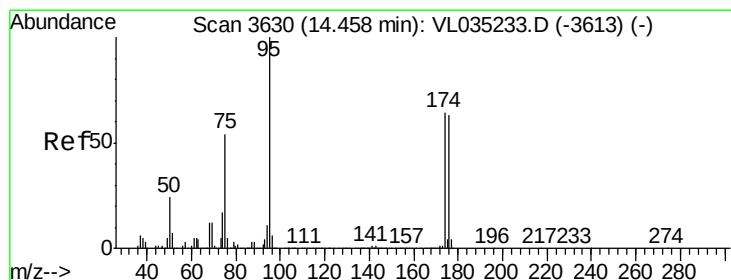
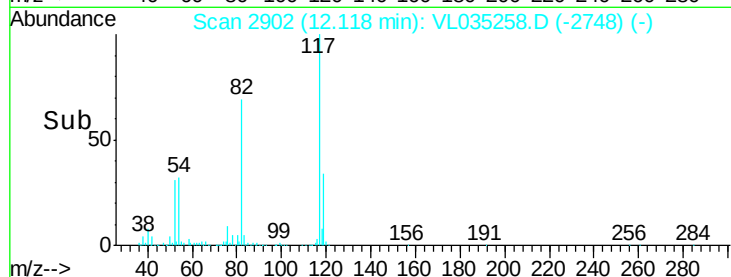
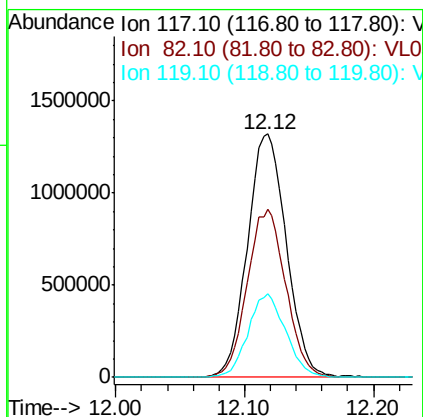
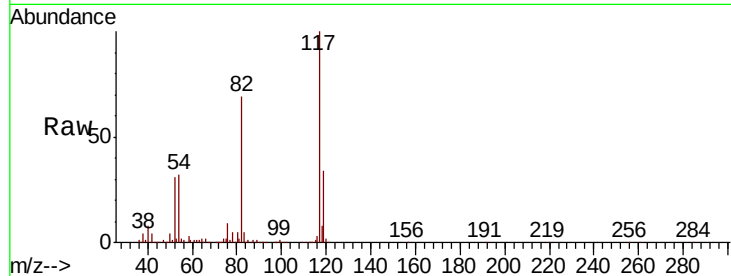




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.12 min Scan# 2902
Delta R.T. -0.01 min
Lab File: VL035258.D
Acq: 29 Jul 2020 22:50

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:117 Resp: 2776611
Ion Ratio Lower Upper
117 100
82 68.5 52.4 78.6
119 33.3 24.6 36.8



#68
1-Bromo-4-Fluorobenzene
Concen: 10.126 ppbv
RT: 14.46 min Scan# 3630
Delta R.T. 0.00 min
Lab File: VL035258.D
Acq: 29 Jul 2020 22:50

Tgt Ion: 95 Resp: 2246673
Ion Ratio Lower Upper
95 100
174 65.0 52.7 79.1
175 4.7 3.9 5.9

