

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060221\
 Data File : VL037113.D
 Acq On : 2 Jun 2021 22:53
 Operator : SY/AP
 Sample : M2548-13DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

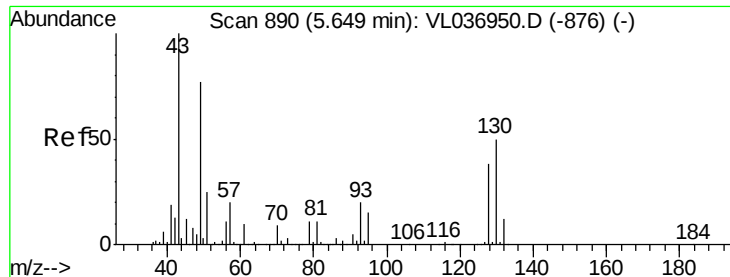
Quant Time: Jun 03 03:23:25 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 18 12:00:15 2021
 QLast Update : Tue May 18 12:00:15 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1358072	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	4020512	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	3608405	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	2664752	9.83	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	14526	0.063	ppbv	100
3) Chlorodifluoromethane	2.97	51	11624	0.047	ppbv	99
4) Chloromethane	3.13	50	2831	0.033	ppbv	99
9) Propene	3.01	41	6995	0.079	ppbv #	41
11) Trichlorofluoromethane	3.94	101	7998	0.038	ppbv #	55
13) Ethanol	3.61	45	25717	2.163	ppbv #	35
15) Acetone	3.84	43	283664	2.039	ppbv #	82
16) 1,3-Butadiene	3.29	39	4680	0.054	ppbv #	27
20) Methylene Chloride	4.33	84	265417	3.560	ppbv	99
26) Hexane	5.68	57	12708	0.074	ppbv #	30
39) 1,2-Dichloropropane	7.16	63	961018	7.204	ppbv #	26

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 892

Delta R.T. 0.01 min

Lab File: VL037113.D

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Instrument :
MSVOA_L
ClientSampleId :

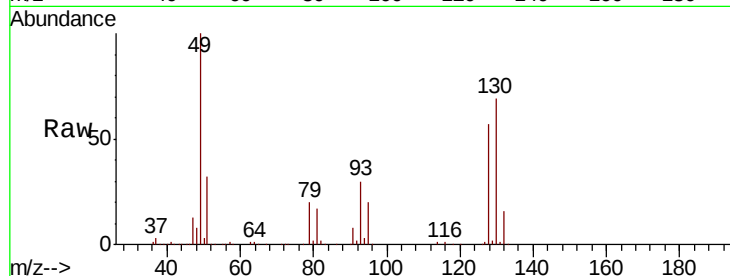
Tot Ion: 49 Resp: 1358072

Ion Ratio Lower Upper

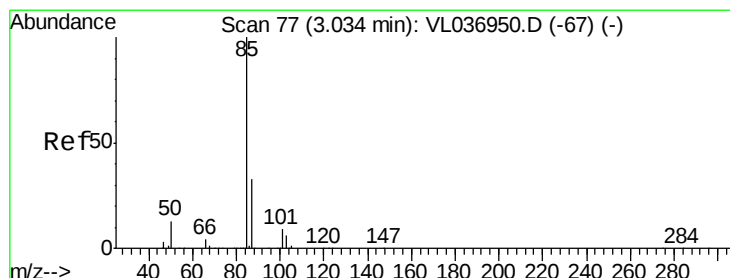
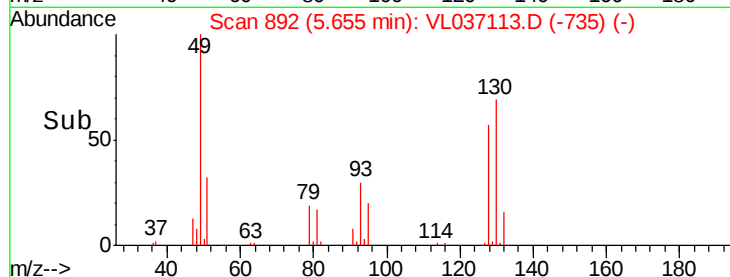
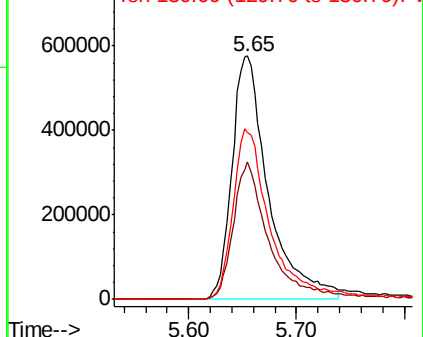
49 100

128 57.8 26.9 80.7

130 73.9 33.8 101.4



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: 3.04 min Scan# 79

Delta R.T. 0.01 min

Lab File: VL037113.D

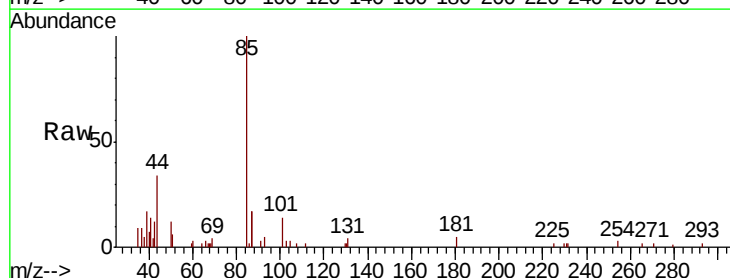
Acq: 2 Jun 2021 22:53

Tgt Ion: 85 Resp: 14526

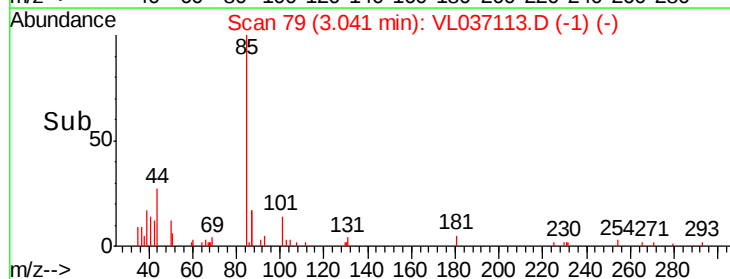
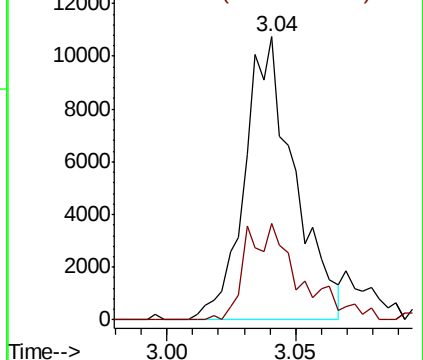
Ion Ratio Lower Upper

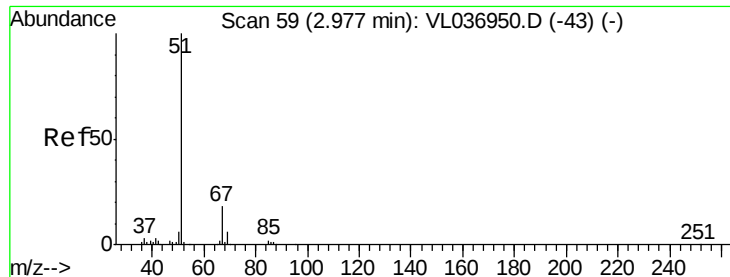
85 100

87 33.4 26.6 39.8



Abundance Ion 85.00 (84.70 to 85.70): VL0
Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.047 ppbv

RT: 2.97 min Scan# 58

Delta R.T. -0.00 min

Lab File: VL037113.D

Acq: 2 Jun 2021 22:53

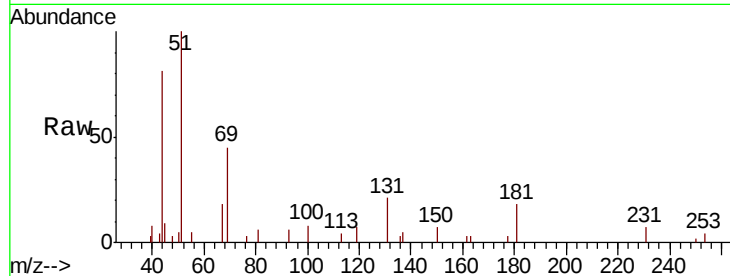
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 51 Resp: 11624

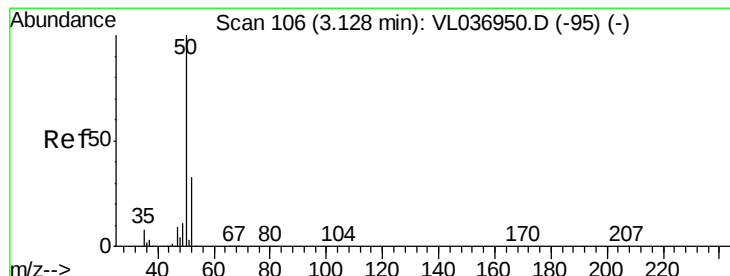
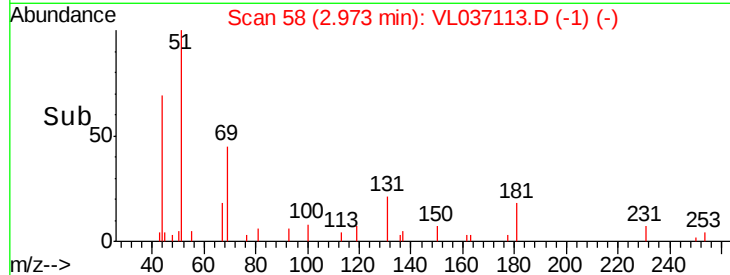
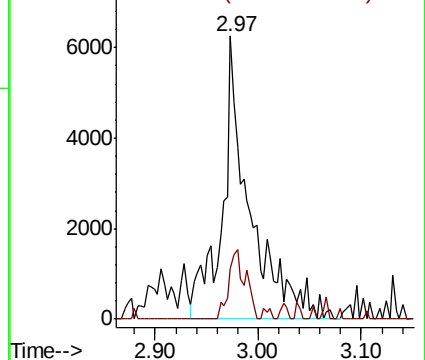
Ion Ratio Lower Upper

51 100

67 18.5 14.6 21.8



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



#4

Chloromethane

Concen: 0.033 ppbv

RT: 3.13 min Scan# 107

Delta R.T. 0.00 min

Lab File: VL037113.D

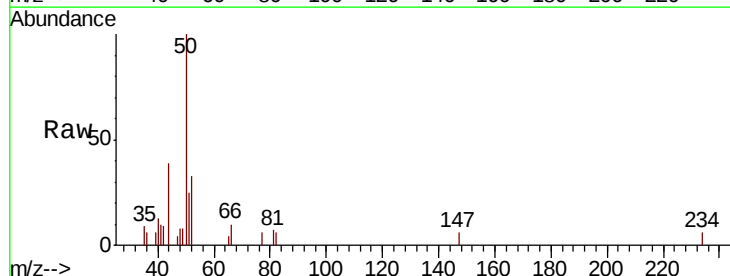
Acq: 2 Jun 2021 22:53

Tgt Ion: 50 Resp: 2831

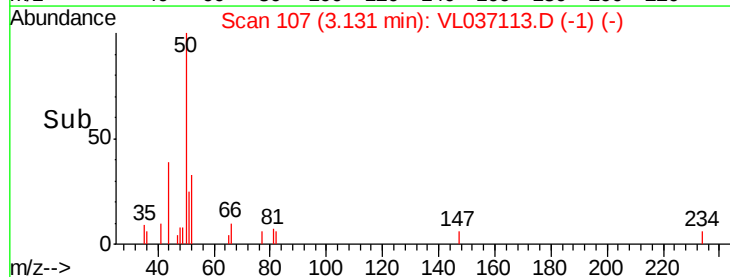
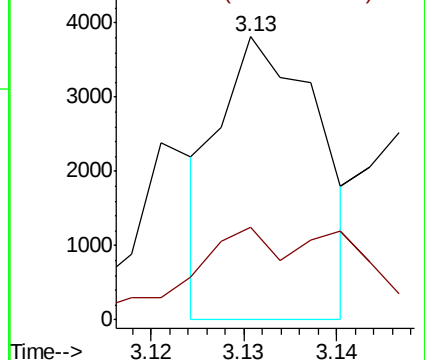
Ion Ratio Lower Upper

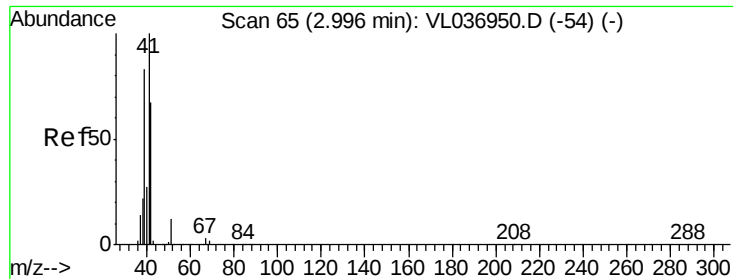
50 100

52 33.3 26.1 39.1



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





#9

Propene

Concen: 0.079 ppbv

RT: 3.01 min Scan# 69

Delta R.T. 0.01 min

Lab File: VL037113.D

Acq: 2 Jun 2021 22:53

Instrument :

MSVOA_L

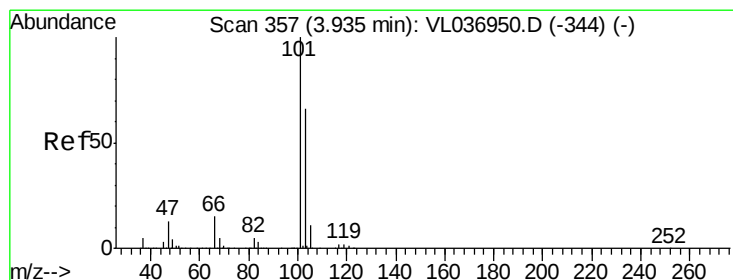
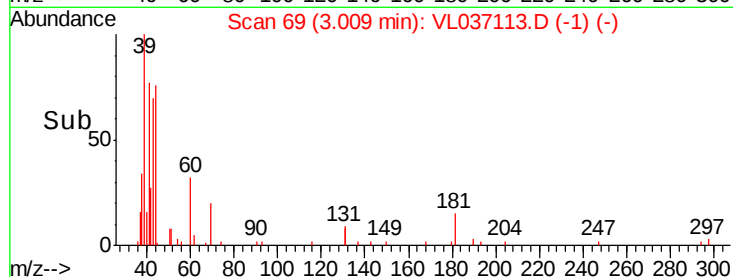
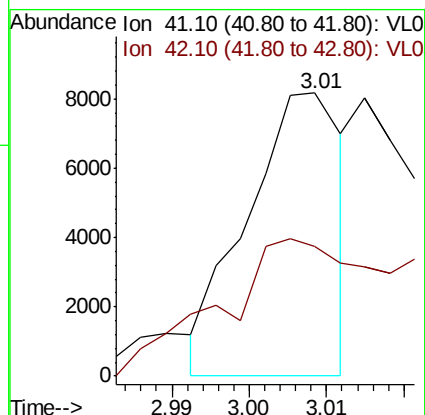
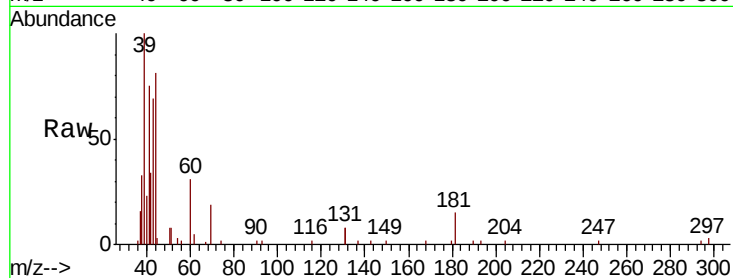
ClientSampled :

Tot Ion: 41 Resp: 6995

Ion Ratio Lower Upper

41 100

42 115.2 53.9 80.9#



#11

Trichlorofluoromethane

Concen: 0.038 ppbv

RT: 3.94 min Scan# 359

Delta R.T. 0.01 min

Lab File: VL037113.D

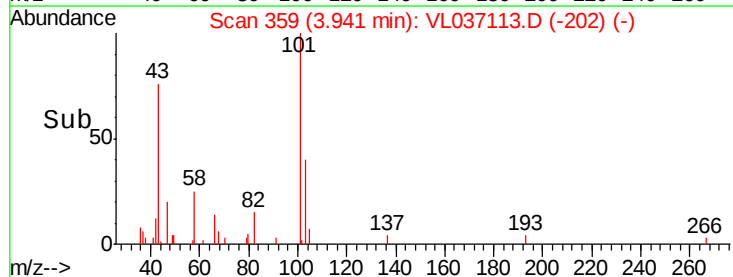
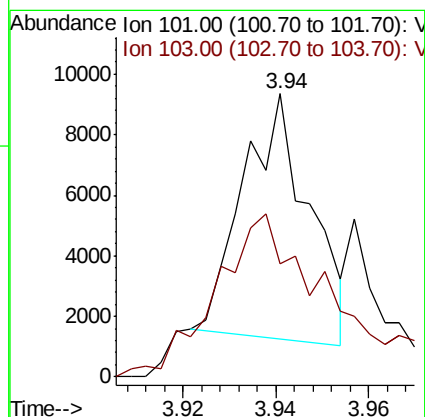
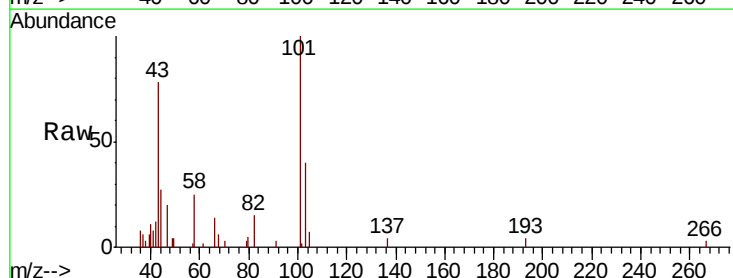
Acq: 2 Jun 2021 22:53

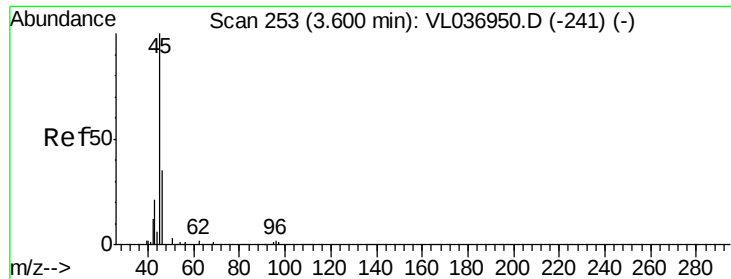
Tgt Ion: 101 Resp: 7998

Ion Ratio Lower Upper

101 100

103 29.9 52.6 79.0#

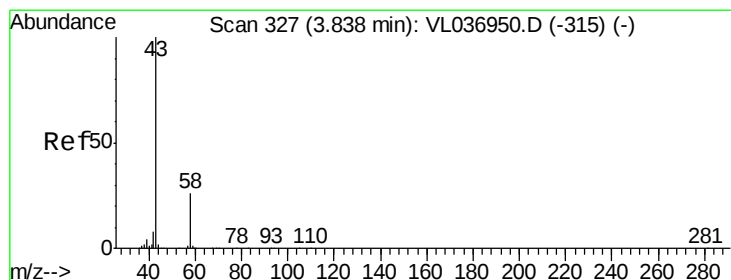
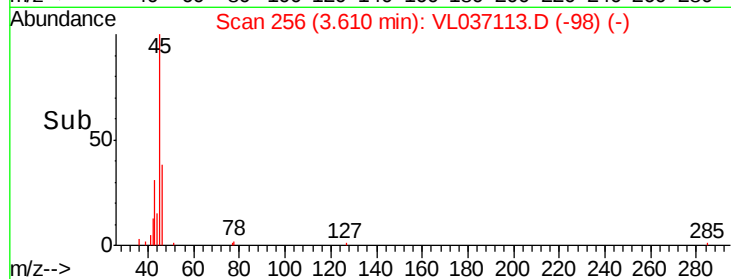
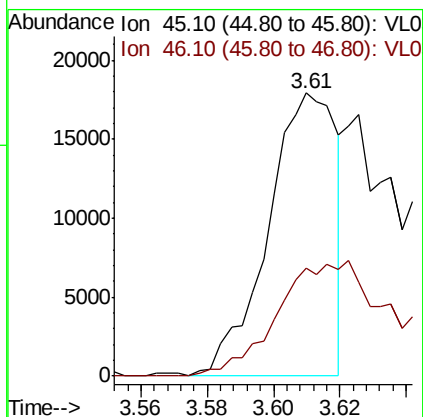
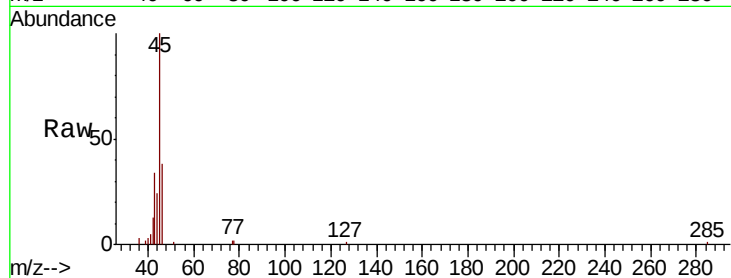




#13
Ethanol
Concen: 2.163 ppbv
RT: 3.61 min Scan# 256
Delta R.T. 0.01 min
Lab File: VL037113.D
Acq: 2 Jun 2021 22:53

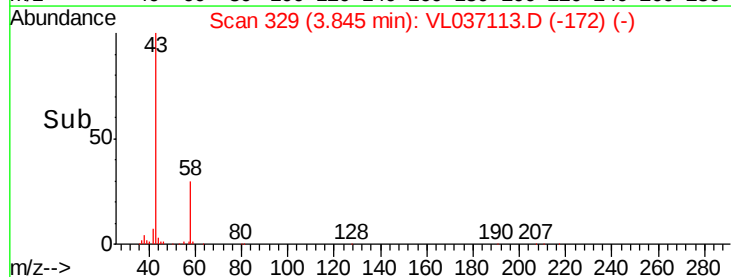
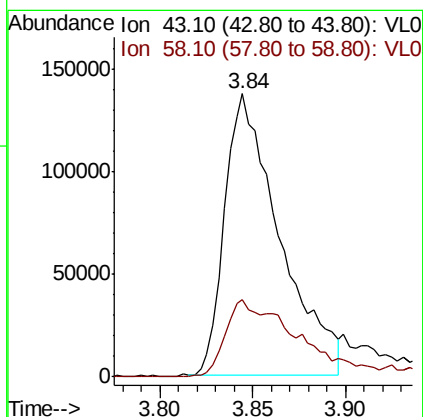
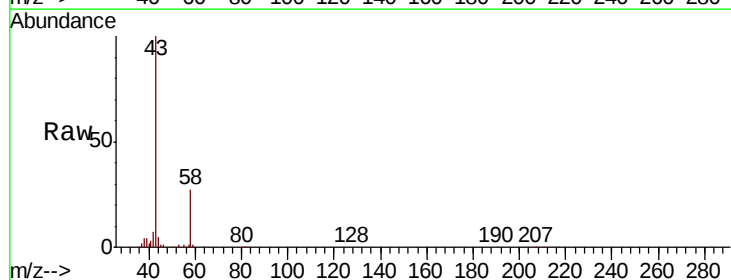
Instrument :
MSVOA_L
ClientSampleId :

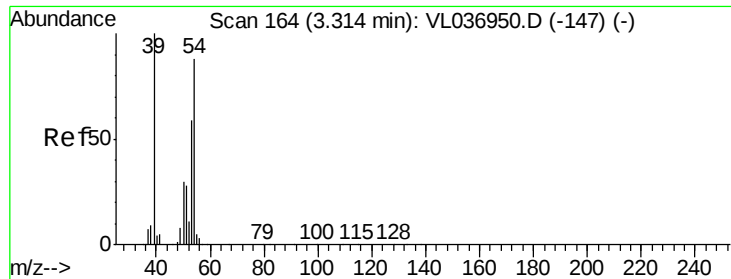
Tot Ion: 45 Resp: 25717
Ion Ratio Lower Upper
45 100
46 0.0 16.3 65.3#



#15
Acetone
Concen: 2.039 ppbv
RT: 3.84 min Scan# 329
Delta R.T. 0.01 min
Lab File: VL037113.D
Acq: 2 Jun 2021 22:53

Tgt Ion: 43 Resp: 283664
Ion Ratio Lower Upper
43 100
58 39.8 24.0 36.0#

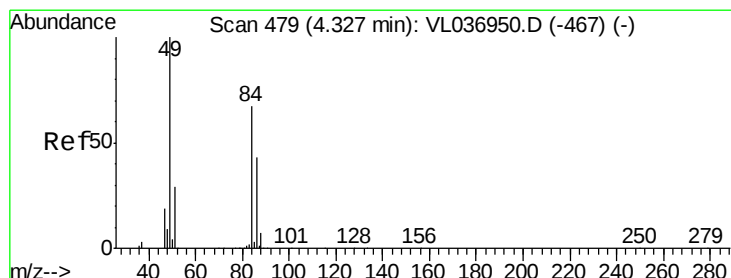
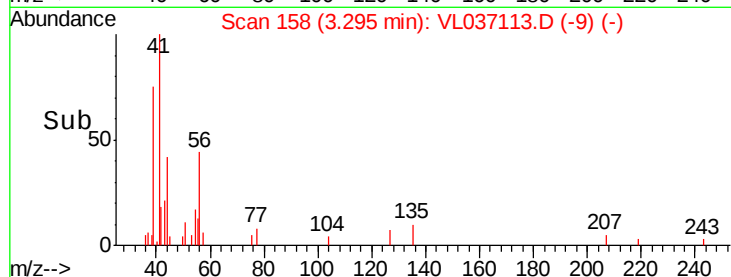
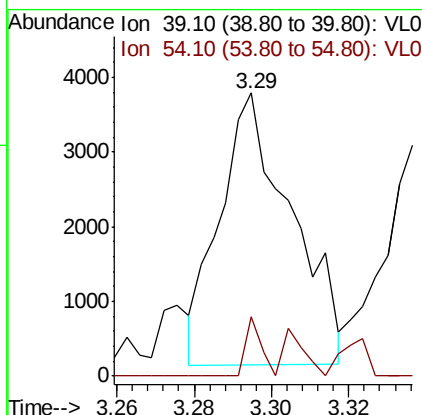
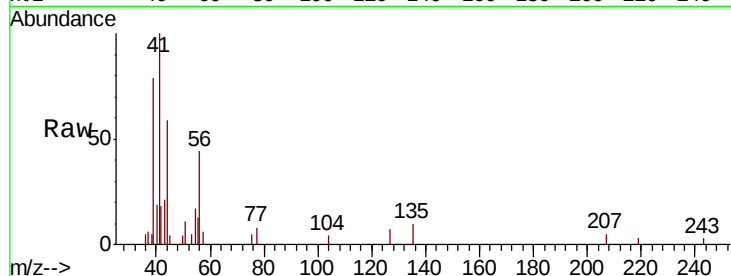




#16
1,3-Butadiene
Concen: 0.054 ppbv
RT: 3.29 min Scan# 158
Delta R.T. -0.02 min
Lab File: VL037113.D
Acq: 2 Jun 2021 22:53

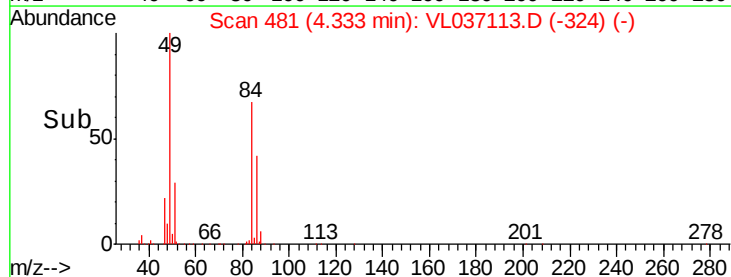
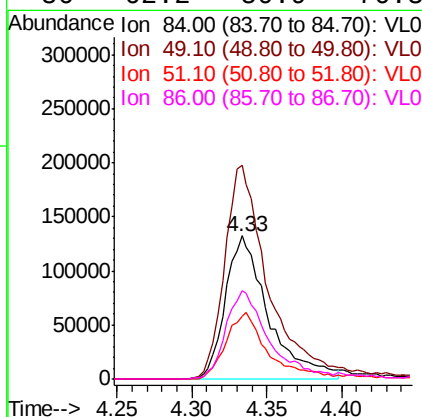
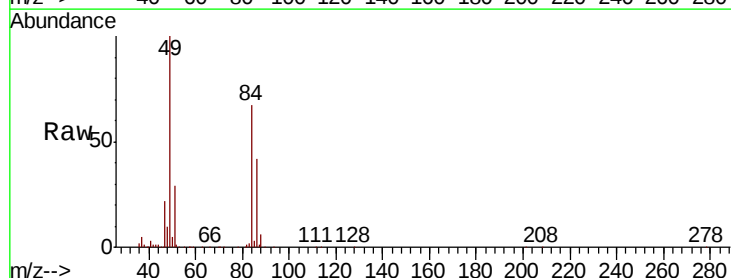
Instrument :
MSVOA_L
ClientSampleId :

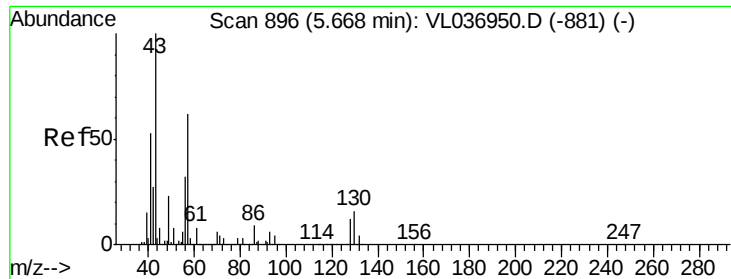
Tot Ion: 39 Resp: 4680
Ion Ratio Lower Upper
39 100
54 14.6 63.2 94.8#



#20
Methylene Chloride
Concen: 3.560 ppbv
RT: 4.33 min Scan# 481
Delta R.T. 0.01 min
Lab File: VL037113.D
Acq: 2 Jun 2021 22:53

Tgt Ion: 84 Resp: 265417
Ion Ratio Lower Upper
84 100
49 149.0 119.8 179.6
51 43.7 35.1 52.7
86 62.2 50.9 76.3

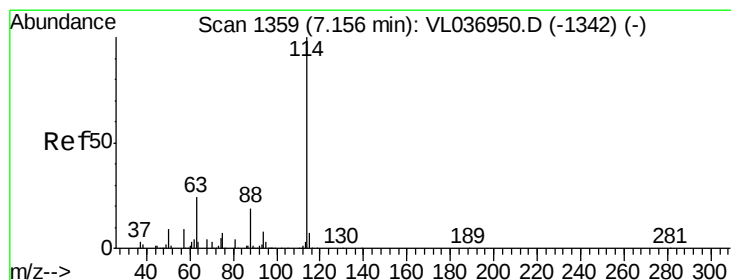
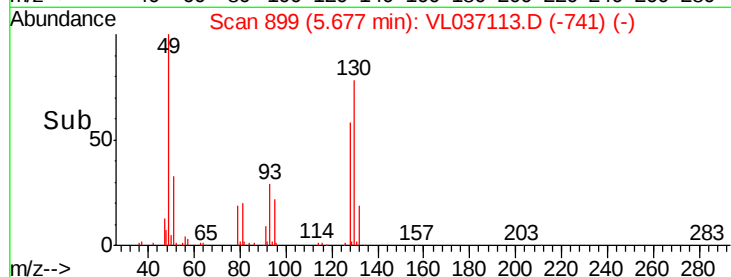
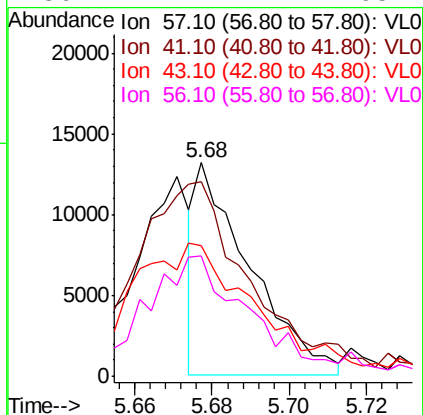
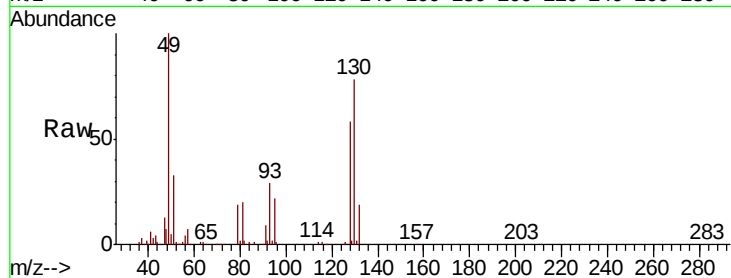




#26
Hexane
Concen: 0.074 ppbv
RT: 5.68 min Scan# 899
Delta R.T. 0.01 min
Lab File: VL037113.D
Acq: 2 Jun 2021 22:53

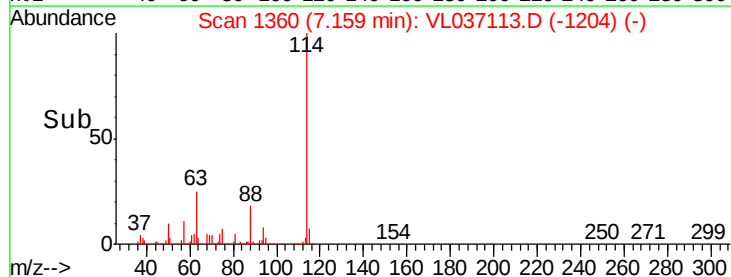
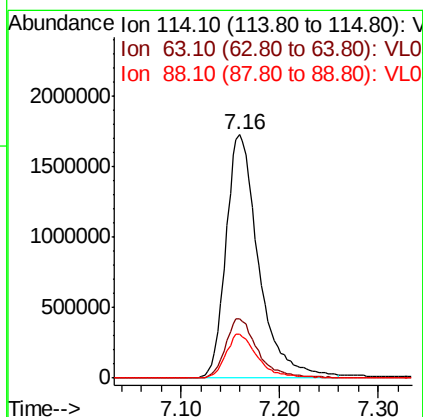
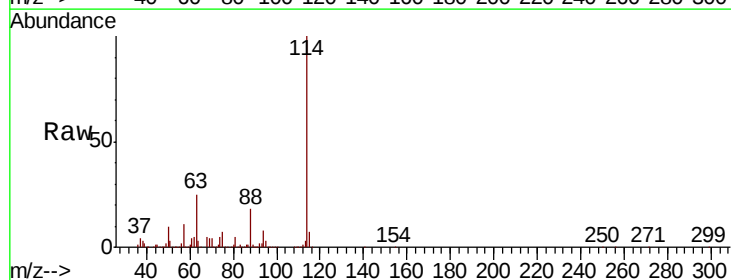
Instrument :
MSVOA_L
ClientSampleId :

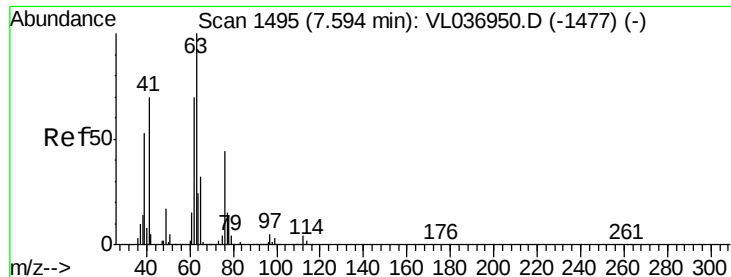
Tot Ion: 57 Resp: 12708
Ion Ratio Lower Upper
57 100
41 216.9 70.5 105.7#
43 154.3 165.8 248.8#
56 122.4 42.2 63.4#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.16 min Scan# 1360
Delta R.T. 0.00 min
Lab File: VL037113.D
Acq: 2 Jun 2021 22:53

Tgt Ion:114 Resp: 4020512
Ion Ratio Lower Upper
114 100
63 24.5 19.6 29.4
88 17.8 14.6 21.8

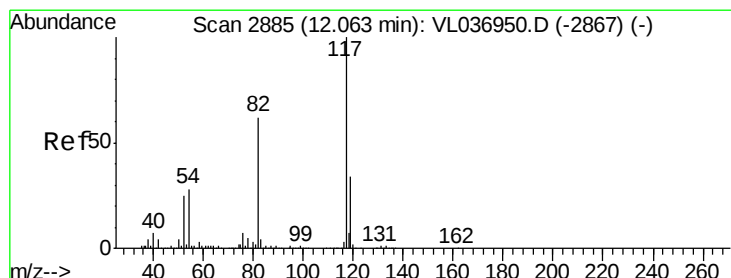
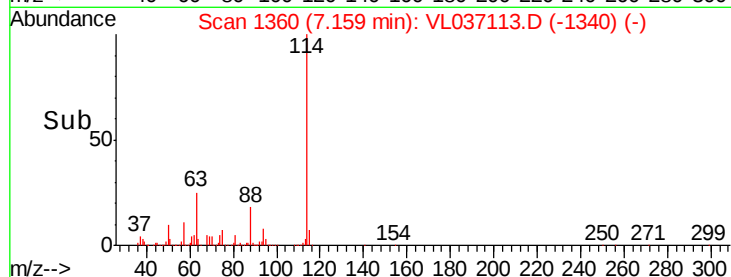
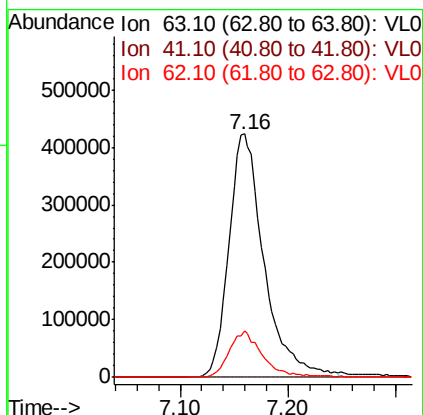
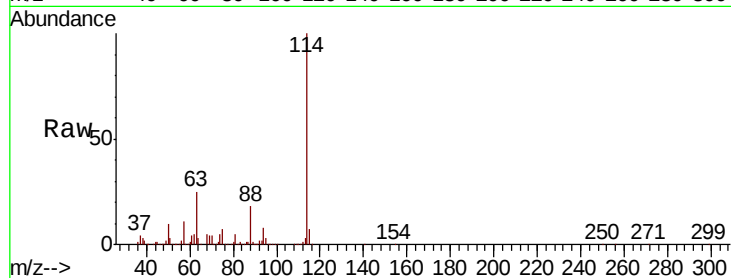




#39
 1,2-Dichloropropane
 Concen: 7.204 ppbv
 RT: 7.16 min Scan# 1360
 Delta R.T. -0.43 min
 Lab File: VL037113.D
 Acq: 2 Jun 2021 22:53

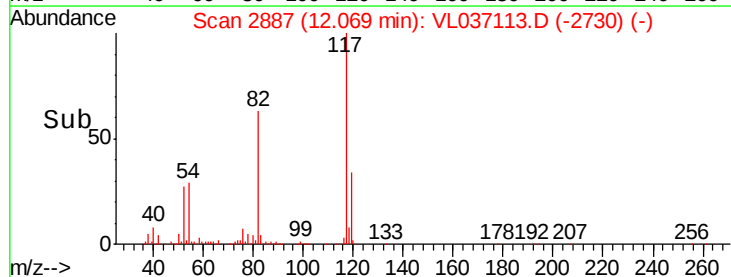
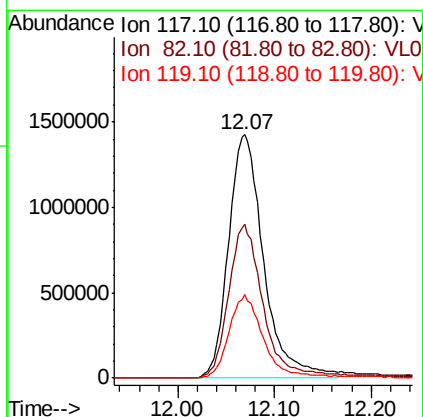
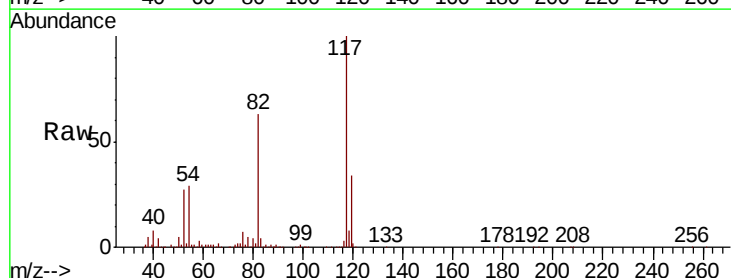
Instrument :
 MSVOA_L
 ClientSampleId :

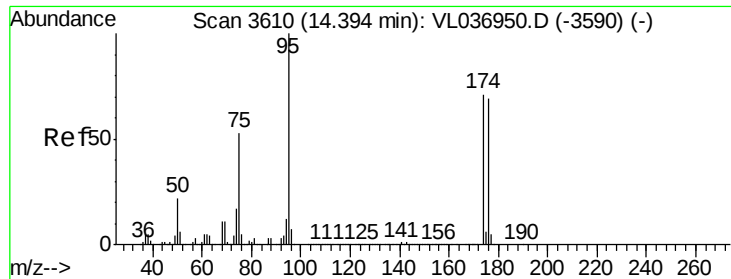
Tot Ion	Ratio	Lower	Upper
63	100		
41	0.0	55.7	83.5#
62	19.0	56.2	84.4#



#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.07 min Scan# 2887
 Delta R.T. 0.01 min
 Lab File: VL037113.D
 Acq: 2 Jun 2021 22:53

Tgt Ion	Ratio	Lower	Upper
117	100		
82	64.7	52.6	79.0
119	34.1	46.6	70.0#





#68

1-Bromo-4-Fluorobenzene

Concen: 9.830 ppbv

RT: 14.40 min Scan# 3612

Delta R.T. 0.01 min

Lab File: VL037113.D

Acq: 2 Jun 2021 22:53

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 95 Resp: 2664752

Ion Ratio Lower Upper

95 100

174 74.0 58.4 87.6

175 5.4 4.4 6.6

