

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL100521\
 Data File : VL037772.D
 Acq On : 5 Oct 2021 14:00
 Operator : SY/AP
 Sample : M4012-02DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P22DL

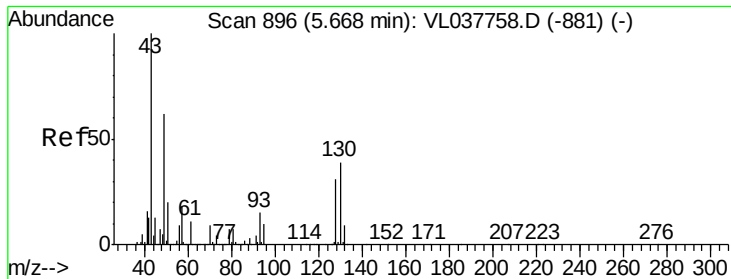
Quant Time: Oct 06 04:46:09 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL100421AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Oct 04 17:43:54 2021
 QLast Update : Mon Oct 04 17:43:54 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1372524	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	3975909	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.07	117	3413080	10.00	ppbv	-0.02

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.39	95	2391636	10.02	ppbv	-0.03	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.20%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Chloromethane	3.13	50	1970	0.020	ppbv #	51
9) Propene	3.02	41	23346	0.241	ppbv	98
13) Ethanol	3.59	45	4387532	552.892	ppbv	82
15) Acetone	3.84	43	1677789	13.617	ppbv	98
17) tert-Butyl alcohol	4.28	59	4612	0.036	ppbv #	71
19) Isopropyl Alcohol	3.96	45	903232	11.783	ppbv #	94
20) Methylene Chloride	4.33	84	34796	0.559	ppbv	91
25) Ethyl Acetate	5.66	43	16360	0.047	ppbv #	66
29) Chloroform	5.74	83	10345	0.043	ppbv	98
34) 2-Butanone	5.23	43	8670	0.054	ppbv #	10
39) 1,2-Dichloropropane	7.16	63	917117	7.180	ppbv #	29
53) Toluene	9.78	91	32044	0.085	ppbv #	42

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 890

Delta R.T. -0.02 min

Lab File: VL037772.D

Acq: 5 Oct 2021 14:00

Instrument :

MSVOA_L

ClientSampleId :

C0P22DL

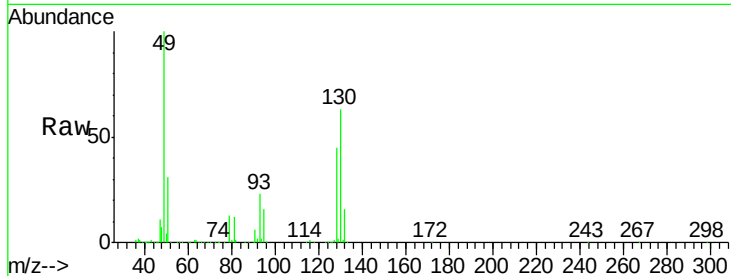
Tgt Ion: 49 Resp: 1372524

Ion Ratio Lower Upper

49 100

128 50.9 27.1 81.3

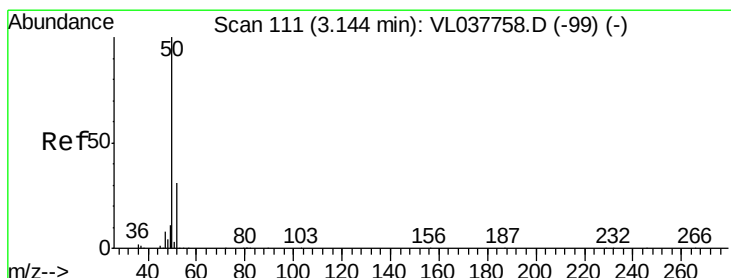
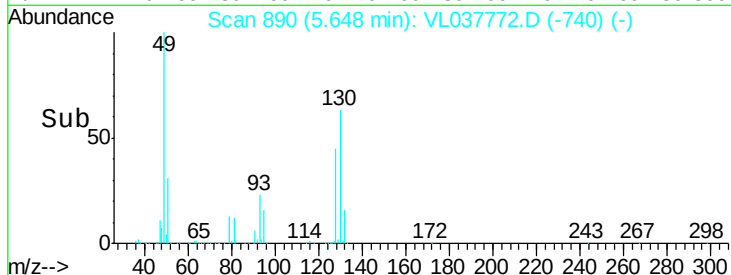
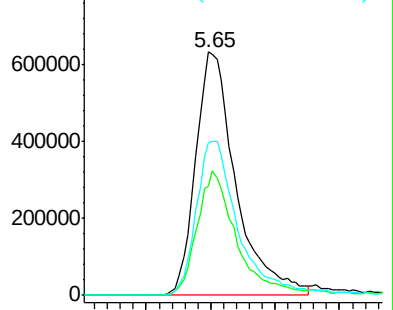
130 66.8 33.2 99.6



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#4

Chloromethane

Concen: 0.020 ppbv

RT: 3.13 min Scan# 108

Delta R.T. -0.01 min

Lab File: VL037772.D

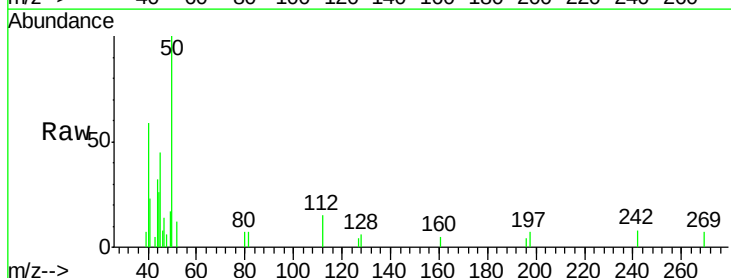
Acq: 5 Oct 2021 14:00

Tgt Ion: 50 Resp: 1970

Ion Ratio Lower Upper

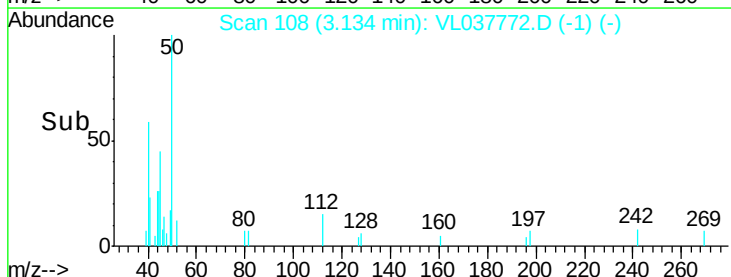
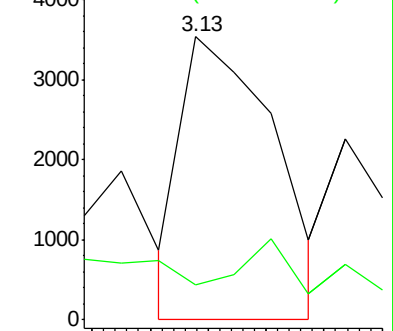
50 100

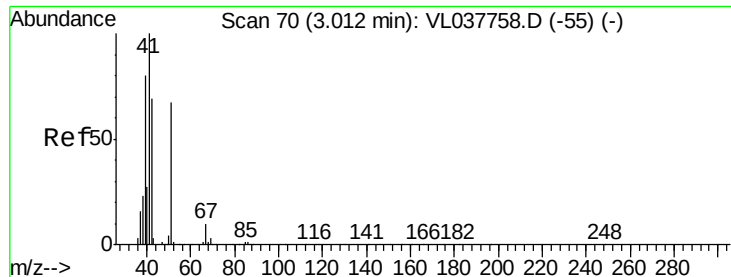
52 4.0 24.4 36.6#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.241 ppbv

RT: 3.02 min Scan# 72

Delta R.T. 0.01 min

Lab File: VL037772.D

Acq: 5 Oct 2021 14:00

Instrument :

MSVOA_L

ClientSampleId :

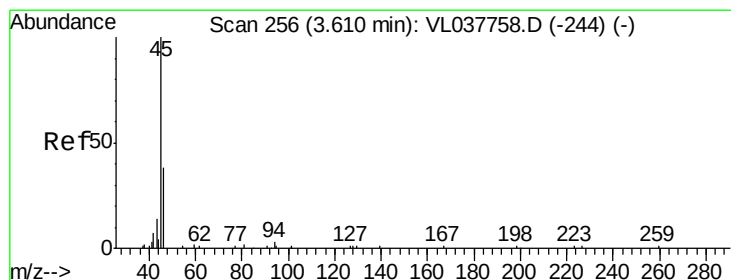
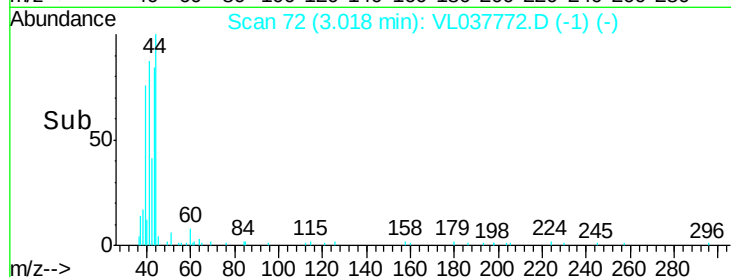
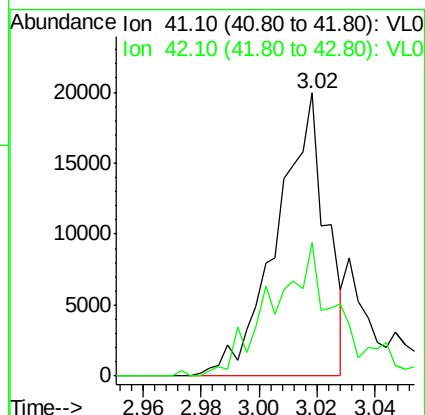
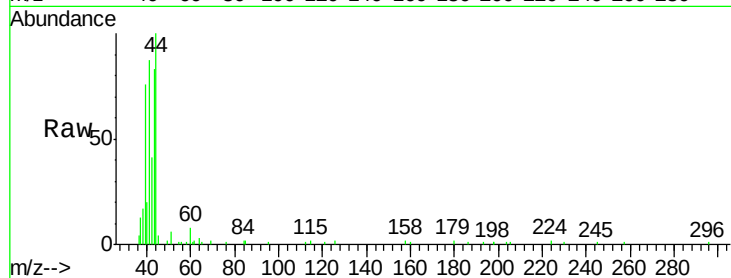
C0P22DL

Tgt Ion: 41 Resp: 23346

Ion Ratio Lower Upper

41 100

42 69.7 54.2 81.2



#13

Ethanol

Concen: 552.892 ppbv

RT: 3.59 min Scan# 250

Delta R.T. -0.02 min

Lab File: VL037772.D

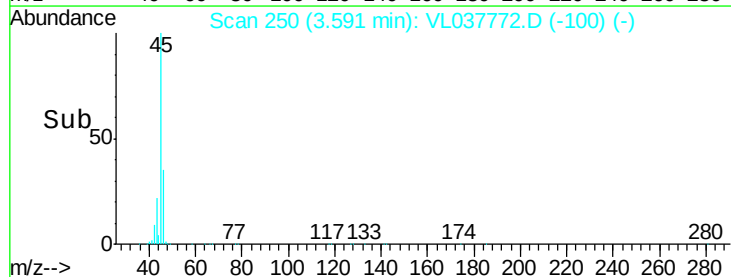
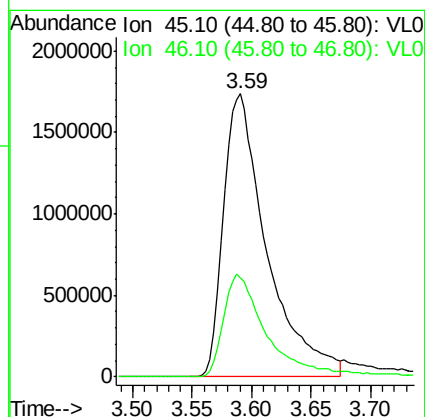
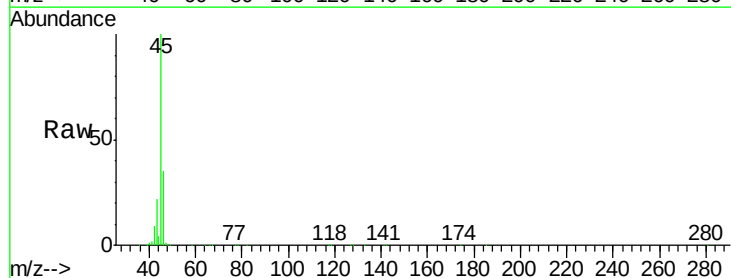
Acq: 5 Oct 2021 14:00

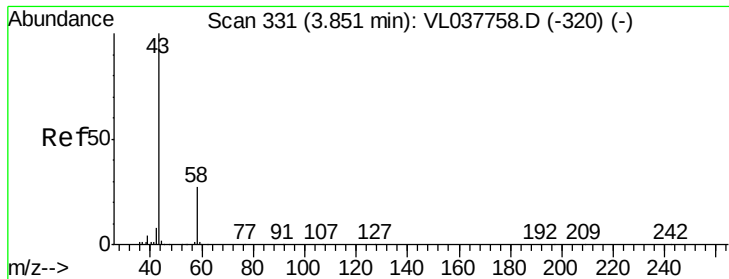
Tgt Ion: 45 Resp: 4387532

Ion Ratio Lower Upper

45 100

46 37.9 20.2 81.0





#15

Acetone

Concen: 13.617 ppbv

RT: 3.84 min Scan# 327

Delta R.T. -0.01 min

Lab File: VL037772.D

Acq: 5 Oct 2021 14:00

Instrument :

MSVOA_L

ClientSampleId :

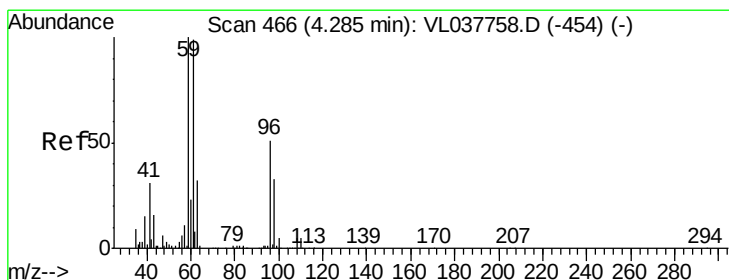
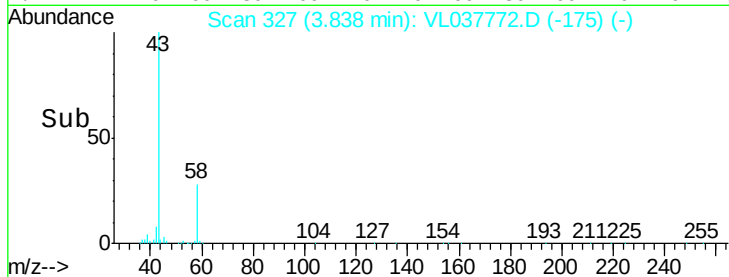
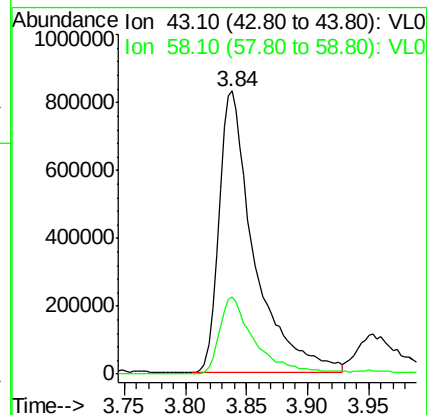
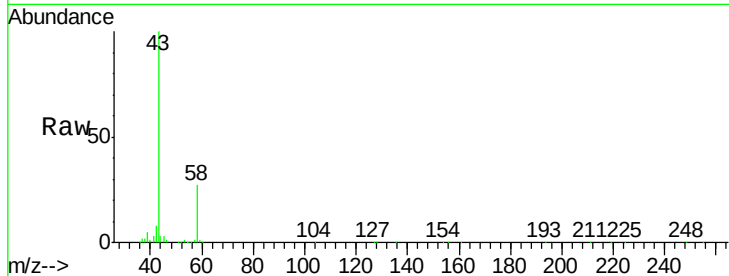
C0P22DL

Tgt Ion: 43 Resp: 1677789

Ion Ratio Lower Upper

43 100

58 27.7 23.0 34.6



#17

tert-Butyl alcohol

Concen: 0.036 ppbv

RT: 4.28 min Scan# 464

Delta R.T. -0.01 min

Lab File: VL037772.D

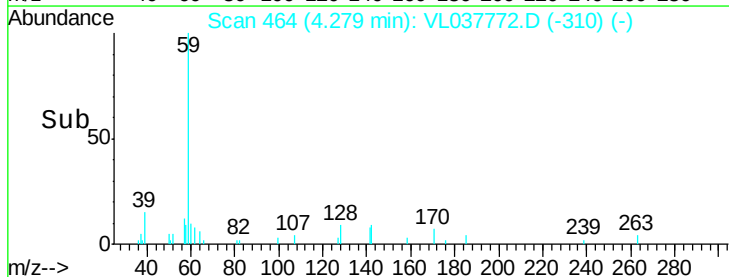
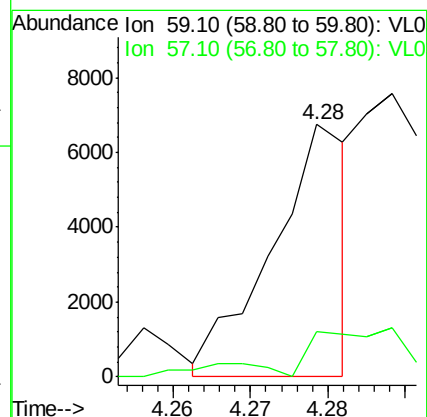
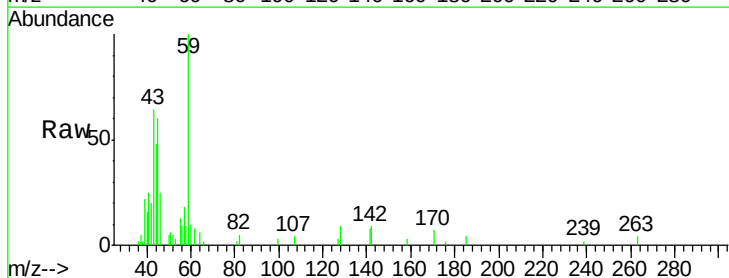
Acq: 5 Oct 2021 14:00

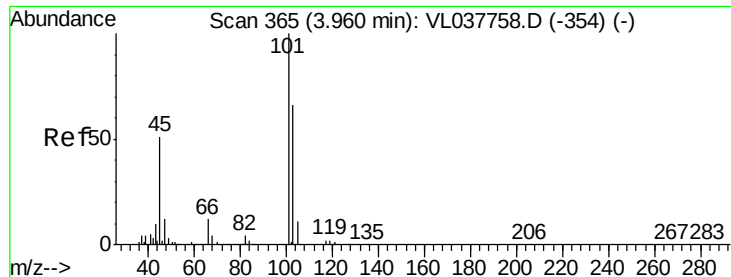
Tgt Ion: 59 Resp: 4612

Ion Ratio Lower Upper

59 100

57 0.0 8.6 13.0#





#19

Isopropyl Alcohol

Concen: 11.783 ppbv

RT: 3.96 min Scan# 364

Delta R.T. -0.00 min

Lab File: VL037772.D

Acq: 5 Oct 2021 14:00

Instrument :

MSVOA_L

ClientSampleId :

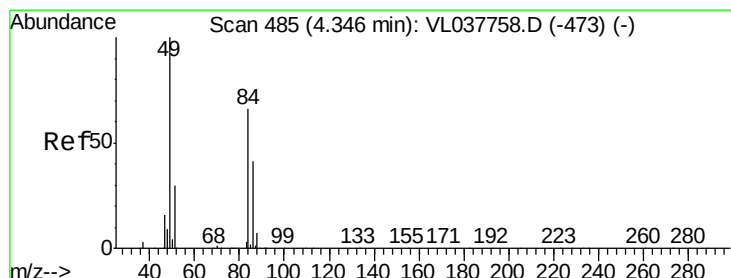
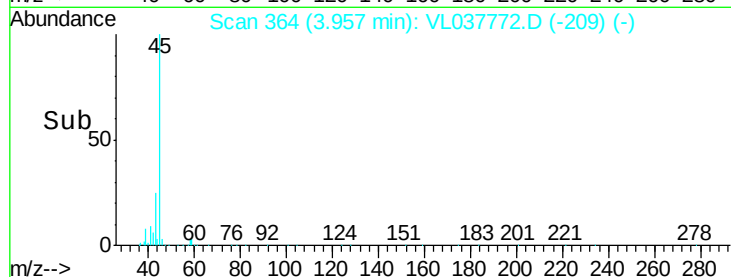
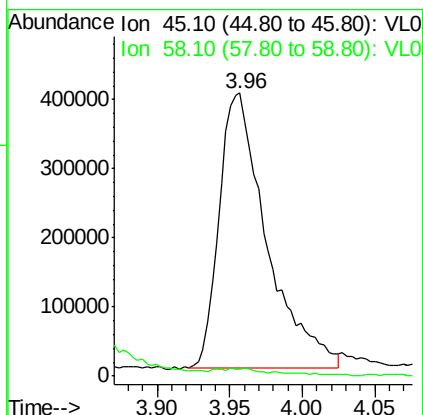
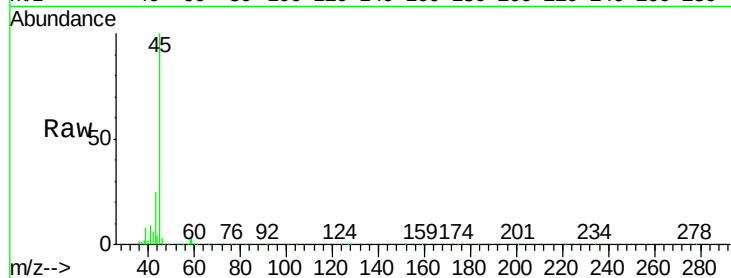
C0P22DL

Tgt Ion: 45 Resp: 903232

Ion Ratio Lower Upper

45 100

58 3.7 1.1 1.7#



#20

Methylene Chloride

Concen: 0.559 ppbv

RT: 4.33 min Scan# 481

Delta R.T. -0.01 min

Lab File: VL037772.D

Acq: 5 Oct 2021 14:00

Tgt Ion: 84 Resp: 34796

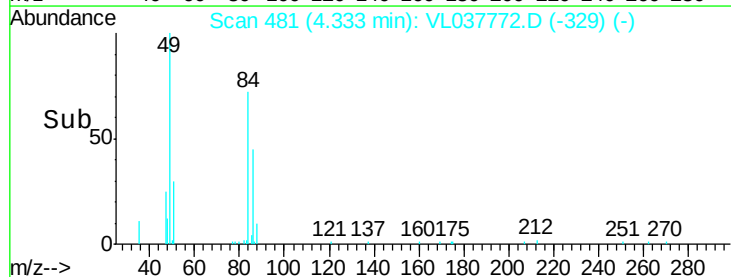
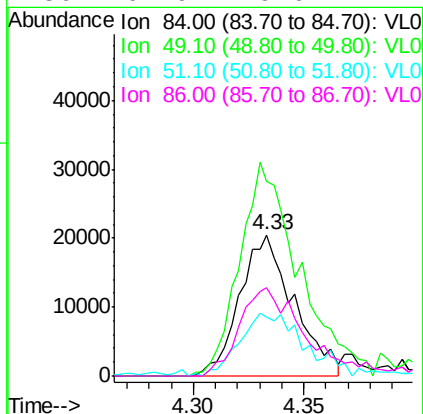
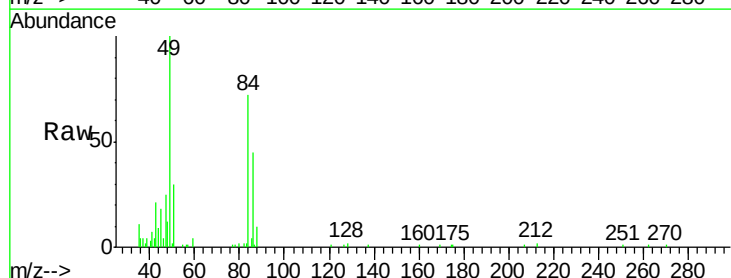
Ion Ratio Lower Upper

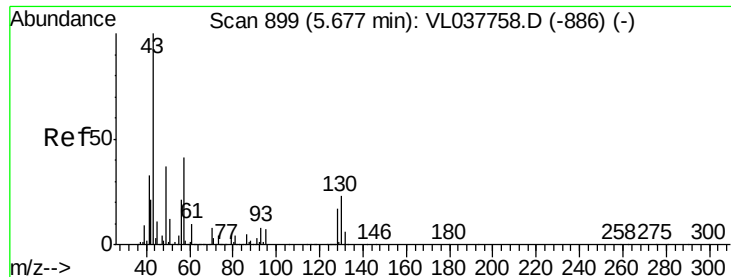
84 100

49 133.9 120.7 181.1

51 41.6 36.2 54.4

86 62.9 49.6 74.4





#25

Ethyl Acetate

Concen: 0.047 ppbv

RT: 5.66 min Scan# 895

Delta R.T. -0.01 min

Lab File: VL037772.D

Acq: 5 Oct 2021 14:00

Instrument :

MSVOA_L

ClientSampleId :

C0P22DL

Tgt Ion: 43 Resp: 16360

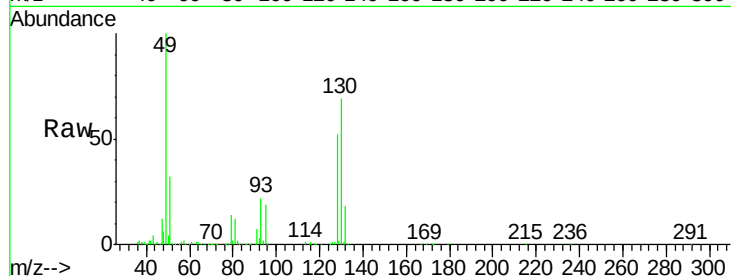
Ion Ratio Lower Upper

43 100

45 30.2 8.1 12.1#

61 17.2 7.5 11.3#

70 15.0 5.9 8.9#

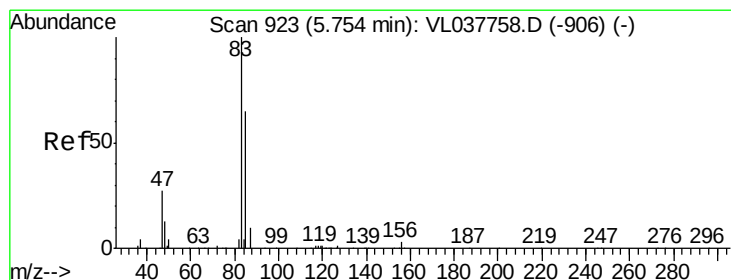
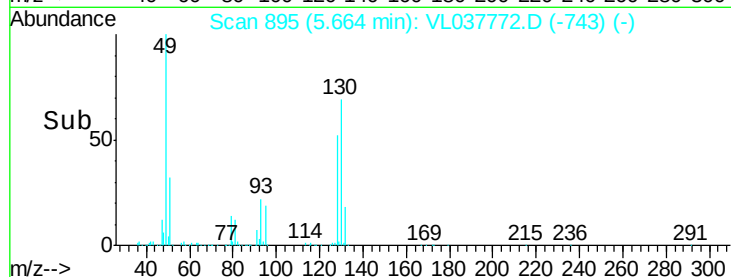
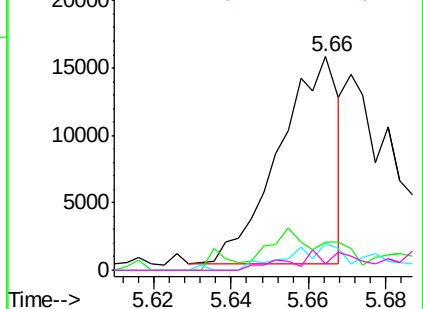


Abundance Ion 43.10 (42.80 to 43.80): VL0

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



#29

Chloroform

Concen: 0.043 ppbv

RT: 5.74 min Scan# 918

Delta R.T. -0.02 min

Lab File: VL037772.D

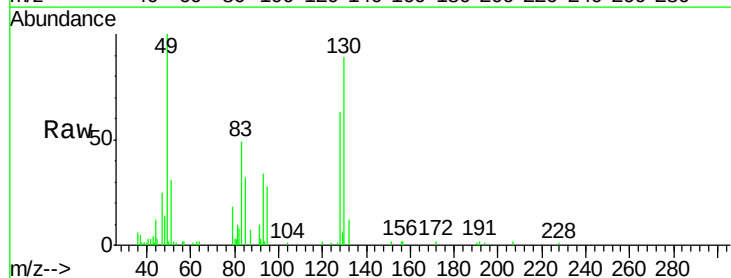
Acq: 5 Oct 2021 14:00

Tgt Ion: 83 Resp: 10345

Ion Ratio Lower Upper

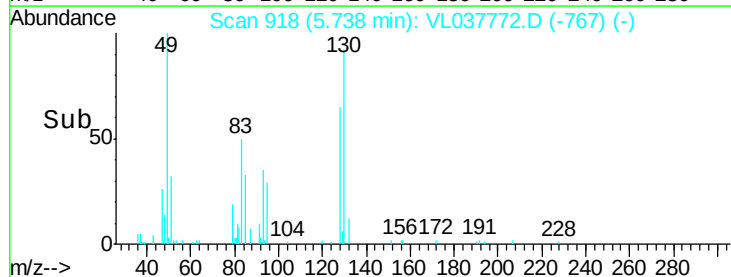
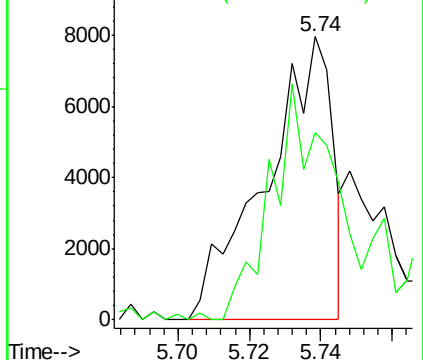
83 100

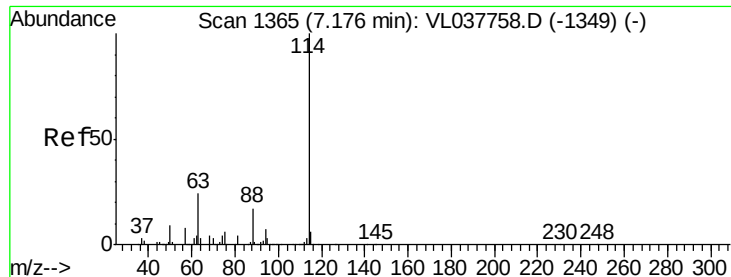
85 66.2 51.8 77.8



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

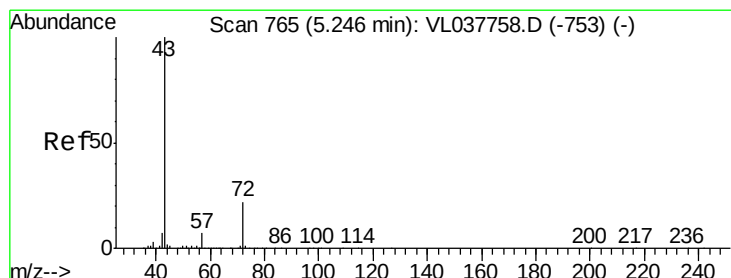
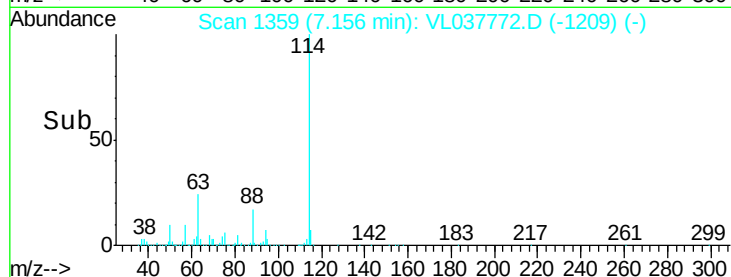
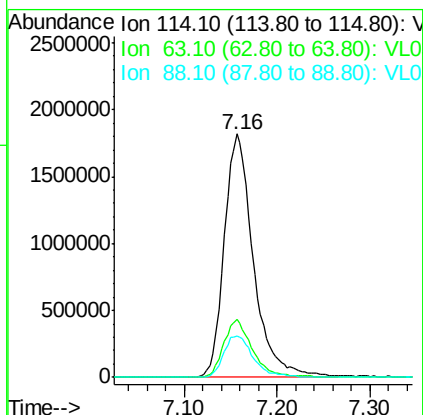
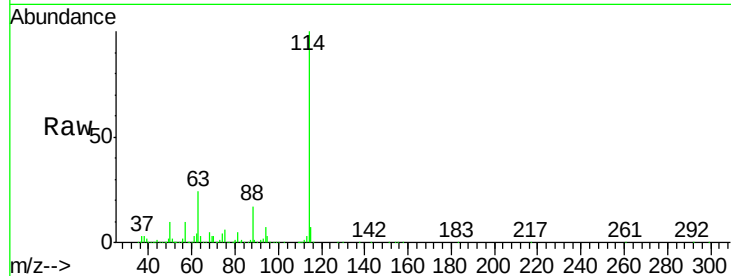




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16 min Scan# 1359
 Delta R.T. -0.02 min
 Lab File: VL037772.D
 Acq: 5 Oct 2021 14:00

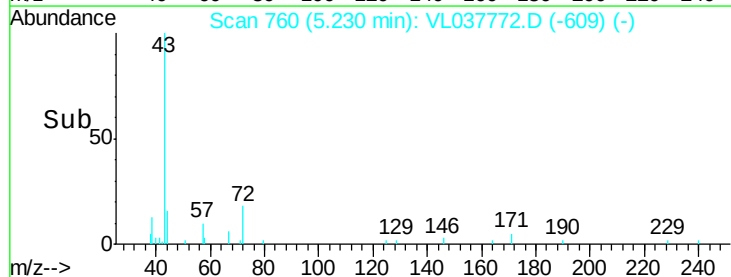
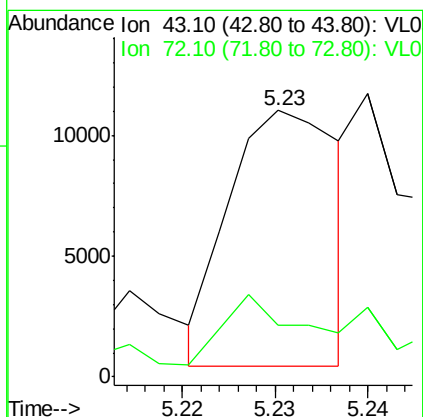
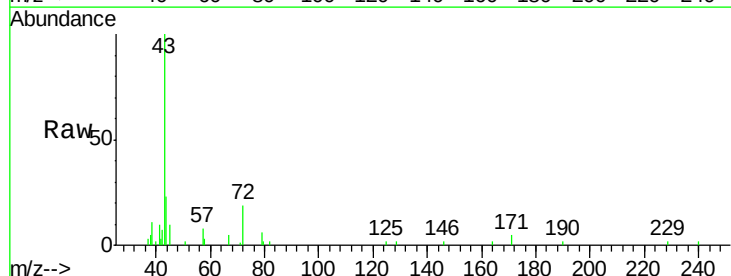
Instrument :
 MSVOA_L
 ClientSampleId :
 C0P22DL

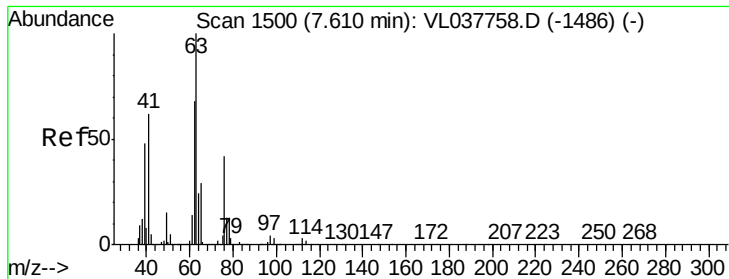
Tgt Ion: 114 Resp: 3975909
 Ion Ratio Lower Upper
 114 100
 63 23.8 19.4 29.2
 88 17.6 14.4 21.6



#34
 2-Butanone
 Concen: 0.054 ppbv
 RT: 5.23 min Scan# 760
 Delta R.T. -0.02 min
 Lab File: VL037772.D
 Acq: 5 Oct 2021 14:00

Tgt Ion: 43 Resp: 8670
 Ion Ratio Lower Upper
 43 100
 72 66.2 18.2 27.2#





#39

1,2-Dichloropropane

Concen: 7.180 ppbv

RT: 7.16 min Scan# 1359

Delta R.T. -0.45 min

Lab File: VL037772.D

Acq: 5 Oct 2021 14:00

Instrument :

MSVOA_L

ClientSampleId :

C0P22DL

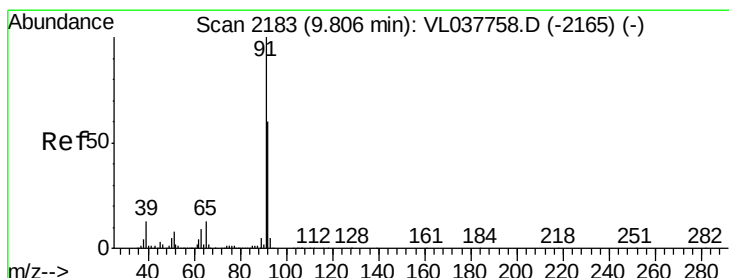
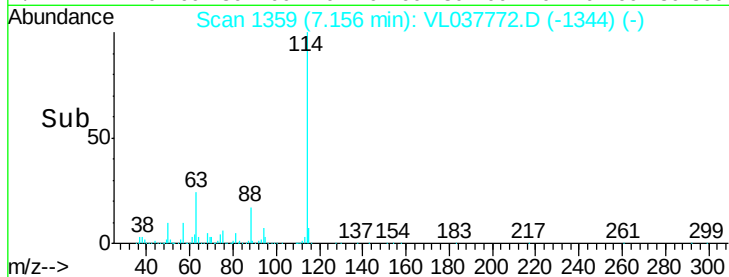
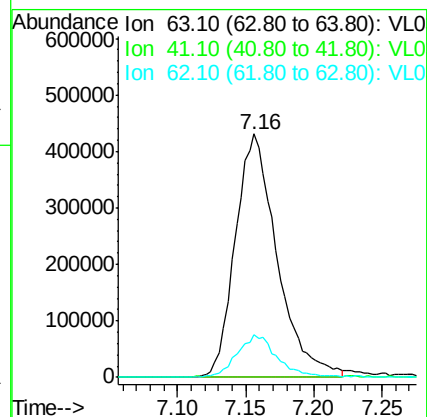
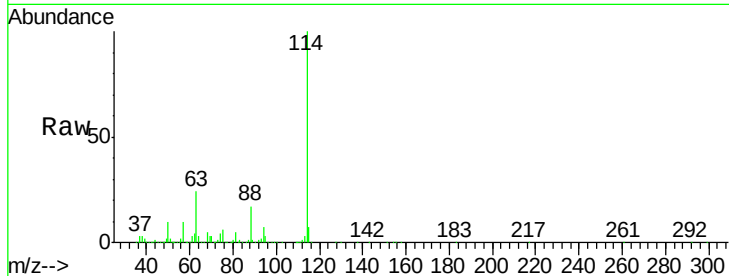
Tgt Ion: 63 Resp: 917117

Ion Ratio Lower Upper

63 100

41 0.0 49.8 74.6#

62 17.4 54.6 82.0#



#53

Toluene

Concen: 0.085 ppbv

RT: 9.78 min Scan# 2175

Delta R.T. -0.03 min

Lab File: VL037772.D

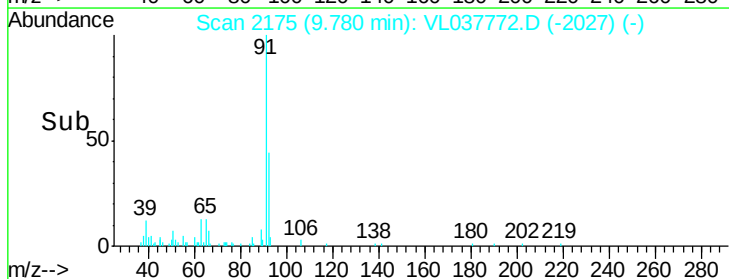
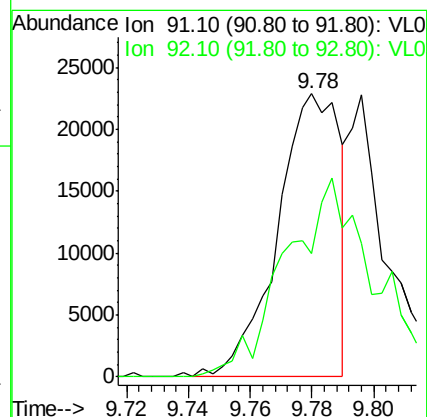
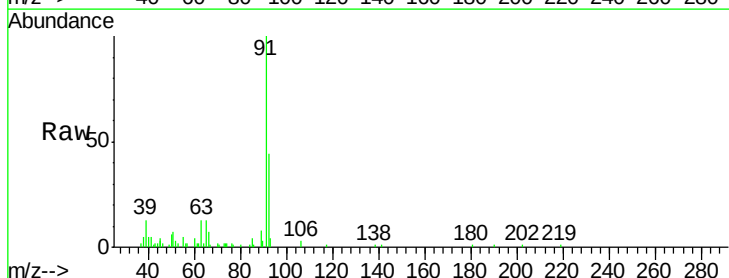
Acq: 5 Oct 2021 14:00

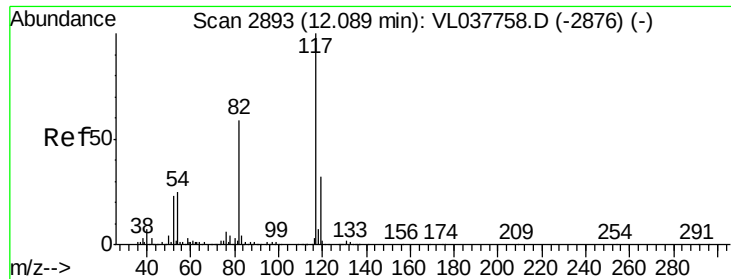
Tgt Ion: 91 Resp: 32044

Ion Ratio Lower Upper

91 100

92 104.5 48.4 72.6#

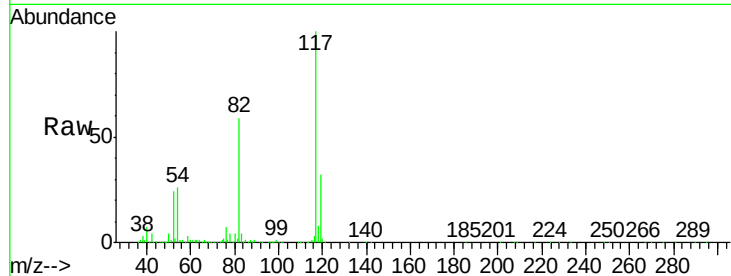




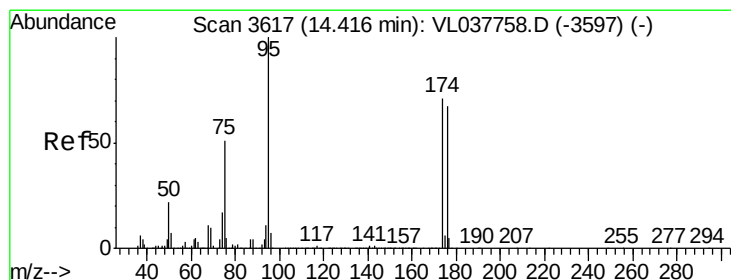
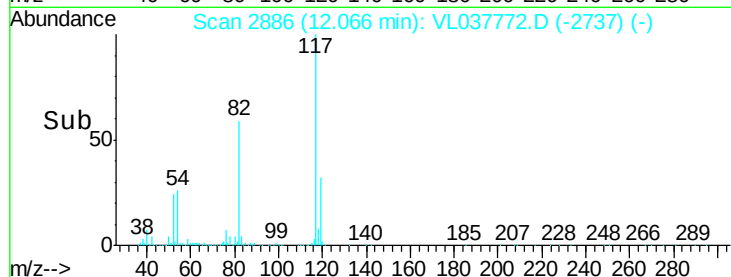
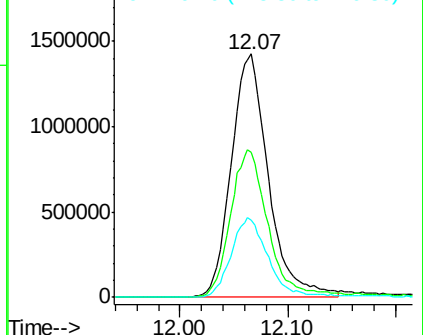
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.07 min Scan# 2886
Delta R.T. -0.02 min
Lab File: VL037772.D
Acq: 5 Oct 2021 14:00

Instrument :
MSVOA_L
ClientSampleId :
C0P22DL

Tgt Ion: 117 Resp: 3413080
Ion Ratio Lower Upper
117 100
82 63.6 52.2 78.2
119 33.5 26.0 39.0

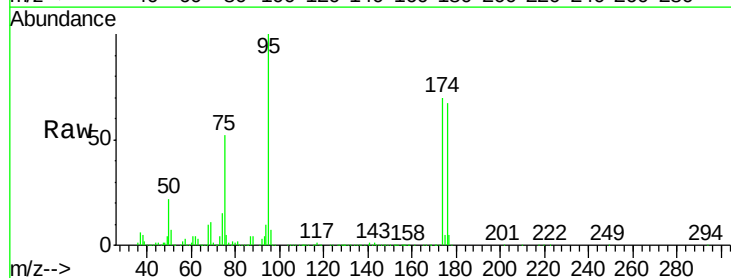


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): V
Ion 119.10 (118.80 to 119.80): V



#68
1-Bromo-4-Fluorobenzene
Concen: 10.020 ppbv
RT: 14.39 min Scan# 3609
Delta R.T. -0.03 min
Lab File: VL037772.D
Acq: 5 Oct 2021 14:00

Tgt Ion: 95 Resp: 2391636
Ion Ratio Lower Upper
95 100
174 73.9 57.8 86.6
175 5.6 4.7 7.1



Abundance Ion 95.10 (94.80 to 95.80): V
Ion 174.00 (173.70 to 174.70): V
Ion 175.00 (174.70 to 175.70): V

