

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL100721\
 Data File : VL037813.D
 Acq On : 8 Oct 2021 2:17
 Operator : SY/AP
 Sample : M4079-02DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P46DL

Quant Time: Oct 08 10:08:52 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	1448145	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.16	114	4003806	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.07	117	3542616	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	2393090	9.66	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.60%

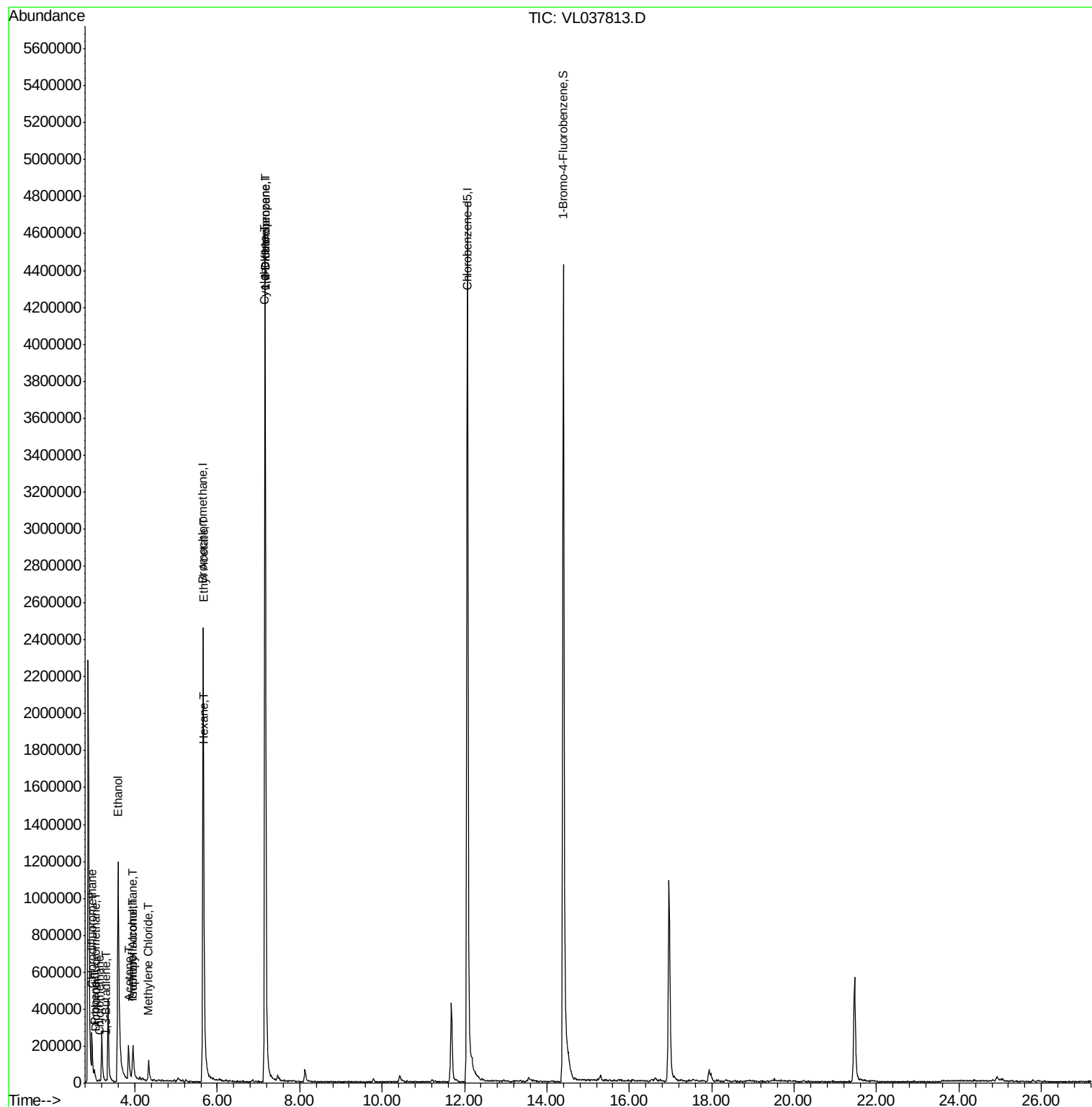
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.04	85	9910	0.043	ppbv	90
3) Chlorodifluoromethane	2.95	51	201302	0.723	ppbv #	63
4) Chloromethane	3.13	50	3905	0.038	ppbv	90
9) Propene	3.01	41	13394	0.131	ppbv	95
11) Trichlorofluoromethane	3.94	101	82604	0.400	ppbv	98
13) Ethanol	3.59	45	1842902	220.105	ppbv	81
15) Acetone	3.84	43	226151	1.740	ppbv	95
16) 1,3-Butadiene	3.30	39	2164	0.023	ppbv #	19
19) Isopropyl Alcohol	3.95	45	131955	1.632	ppbv #	87
20) Methylene Chloride	4.34	84	39714	0.605	ppbv #	80
25) Ethyl Acetate	5.67	43	15634	0.043	ppbv #	91
26) Hexane	5.68	57	20593	0.115	ppbv #	54
30) Cyclohexane	7.14	84	4516	0.030	ppbv #	1
39) 1,2-Dichloropropane	7.16	63	945590	7.351	ppbv #	28

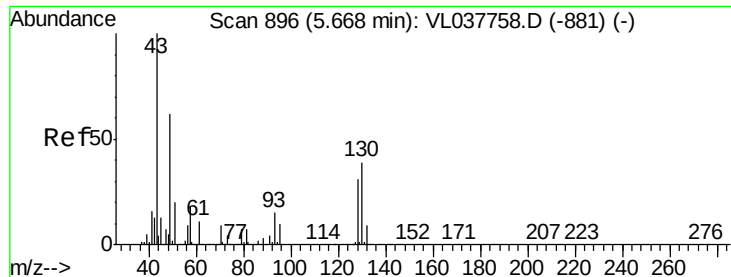
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Oct 04 17:43:54 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 892

Delta R.T. -0.01 min

Lab File: VL037813.D

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Instrument :

MSVOA_L

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C0P46DL

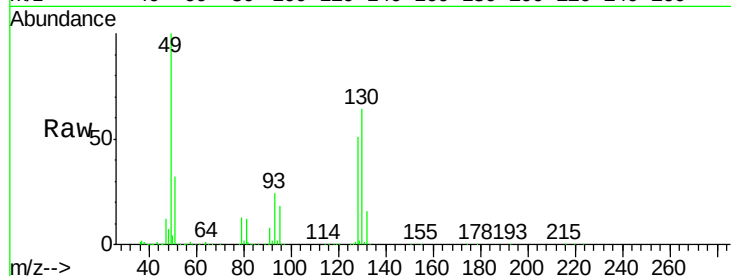
Tgt Ion: 49 Resp: 1448145

Ion Ratio Lower Upper

49 100

128 51.3 27.1 81.3

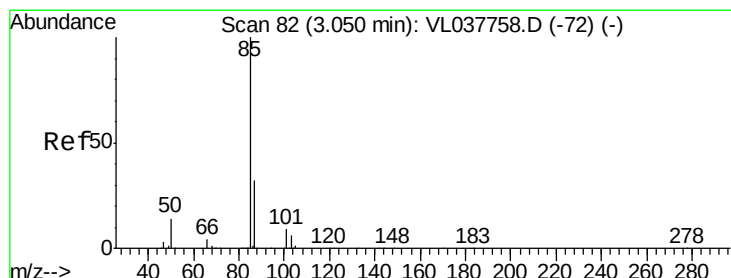
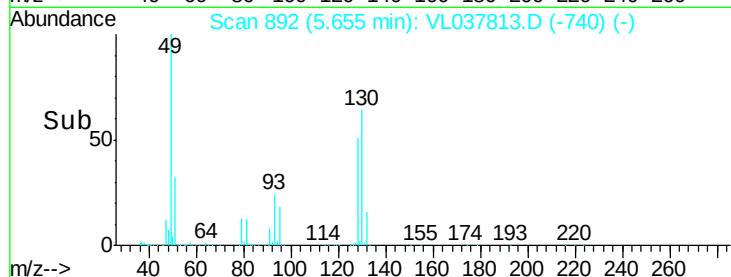
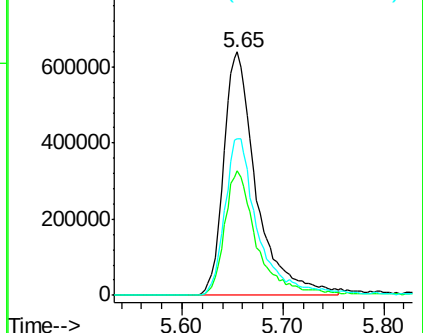
130 66.7 33.2 99.6



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



#2

Dichlorodifluoromethane

Concen: 0.043 ppbv

RT: 3.04 min Scan# 80

Delta R.T. -0.01 min

Lab File: VL037813.D

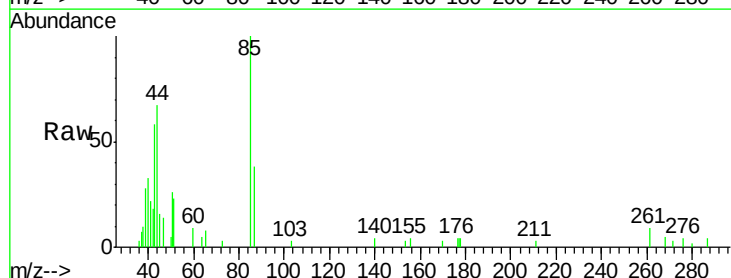
Acq: 8 Oct 2021 2:17

Tgt Ion: 85 Resp: 9910

Ion Ratio Lower Upper

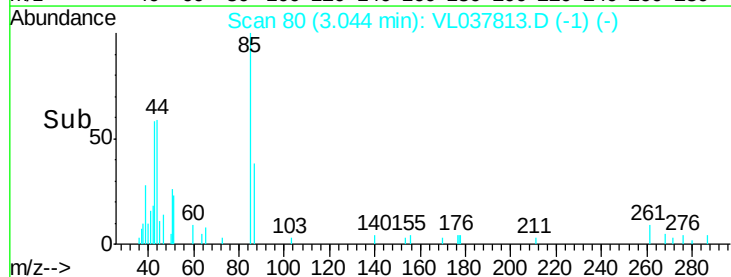
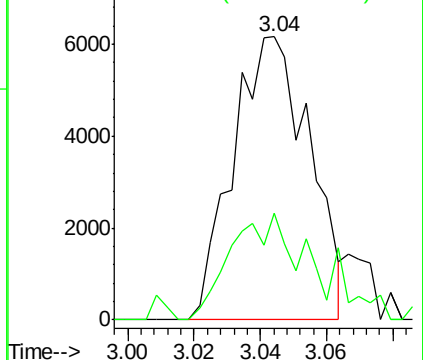
85 100

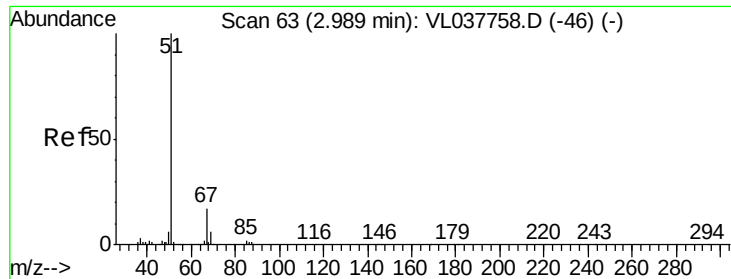
87 37.7 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.723 ppbv

RT: 2.95 min Scan# 52

Delta R.T. -0.04 min

Lab File: VL037813.D

Acq: 8 Oct 2021 2:17

Instrument :

MSVOA_L

ClientSampleId :

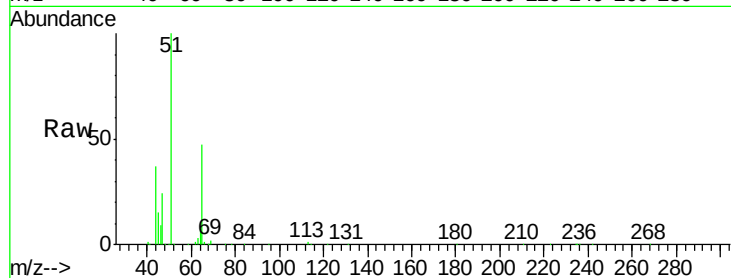
C0P46DL

Tgt Ion: 51 Resp: 201302

Ion Ratio Lower Upper

51 100

67 0.7 13.5 20.3#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

2.95

120000

100000

80000

60000

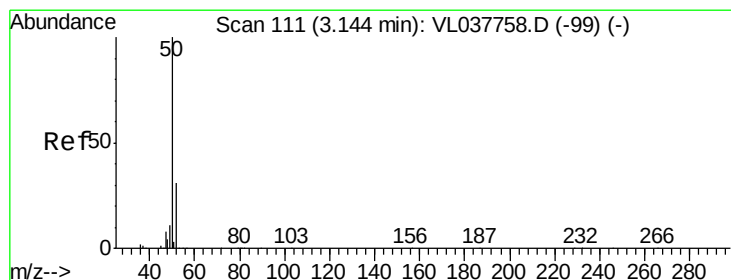
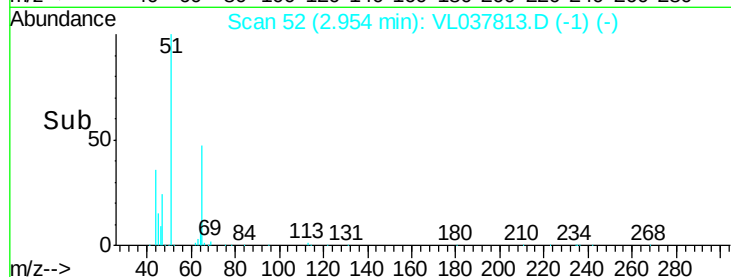
40000

20000

0

Time-->

2.80 2.90 3.00 3.10 3.20



#4

Chloromethane

Concen: 0.038 ppbv

RT: 3.13 min Scan# 108

Delta R.T. -0.01 min

Lab File: VL037813.D

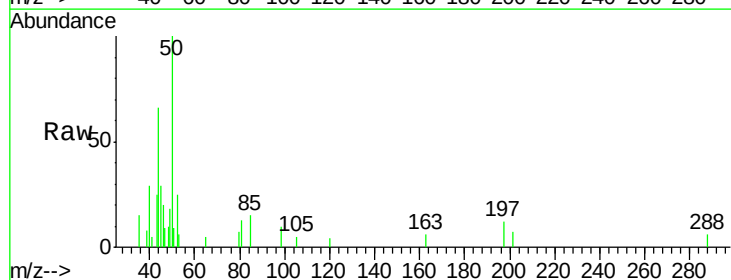
Acq: 8 Oct 2021 2:17

Tgt Ion: 50 Resp: 3905

Ion Ratio Lower Upper

50 100

52 25.1 24.4 36.6



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

5000

4000

3000

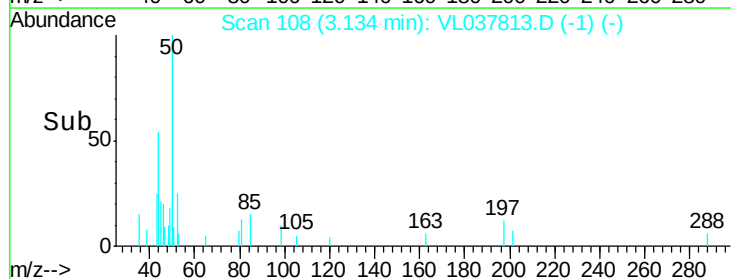
2000

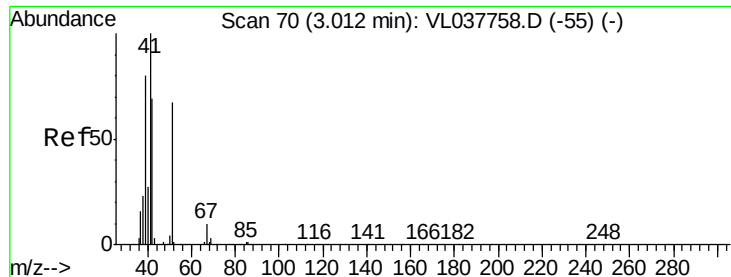
1000

0

Time-->

3.12 3.14





#9

Propene

Concen: 0.131 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.00 min

Lab File: VL037813.D

Acq: 8 Oct 2021 2:17

Instrument :

MSVOA_L

ClientSampleId :

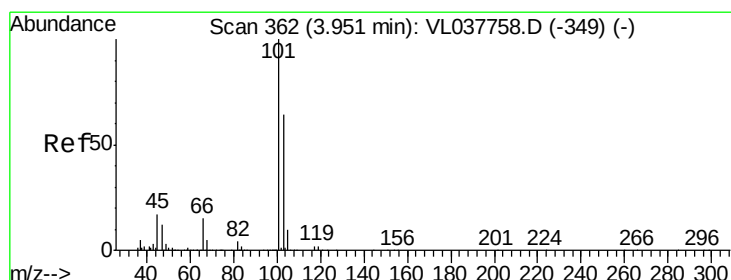
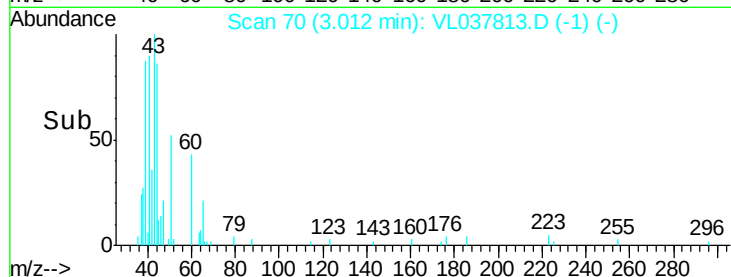
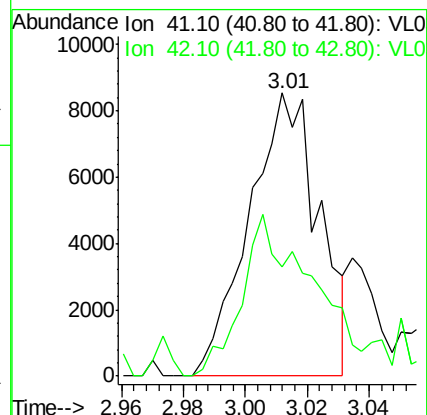
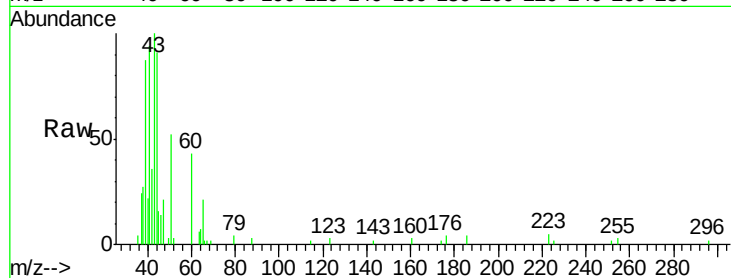
C0P46DL

Tgt Ion: 41 Resp: 13394

Ion Ratio Lower Upper

41 100

42 71.9 54.2 81.2



#11

Trichlorofluoromethane

Concen: 0.400 ppbv

RT: 3.94 min Scan# 359

Delta R.T. -0.01 min

Lab File: VL037813.D

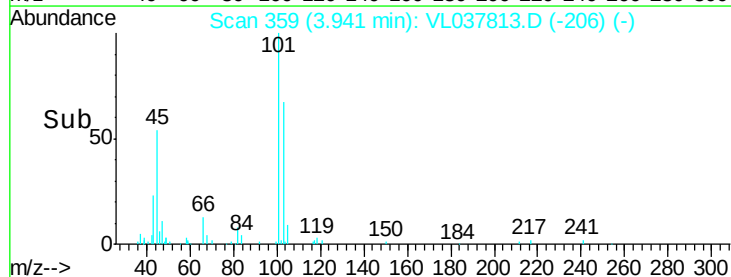
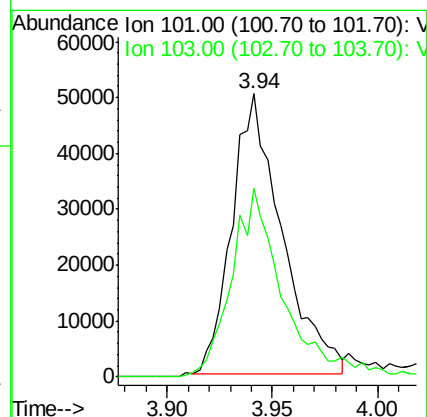
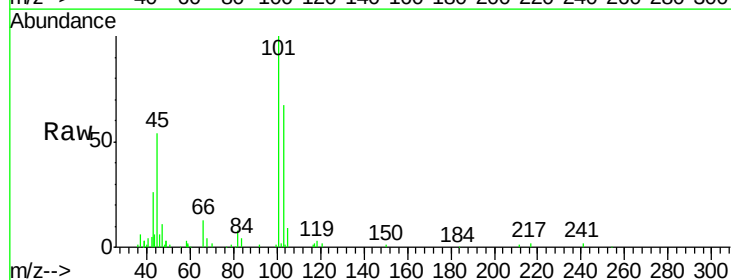
Acq: 8 Oct 2021 2:17

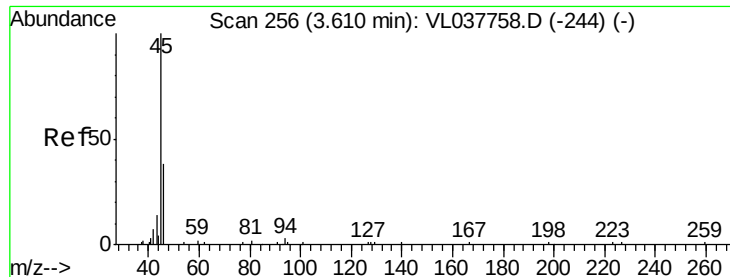
Tgt Ion: 101 Resp: 82604

Ion Ratio Lower Upper

101 100

103 65.9 51.5 77.3





#13

Ethanol

Concen: 220.105 ppbv

RT: 3.59 min Scan# 249

Delta R.T. -0.02 min

Lab File: VL037813.D

Acq: 8 Oct 2021 2:17

Instrument :

MSVOA_L

ClientSampleId :

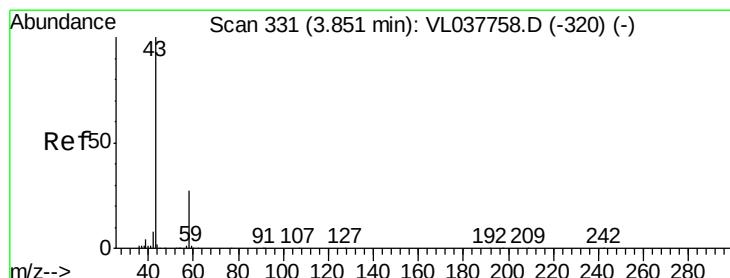
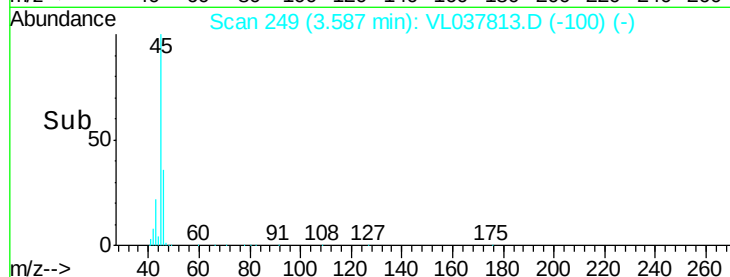
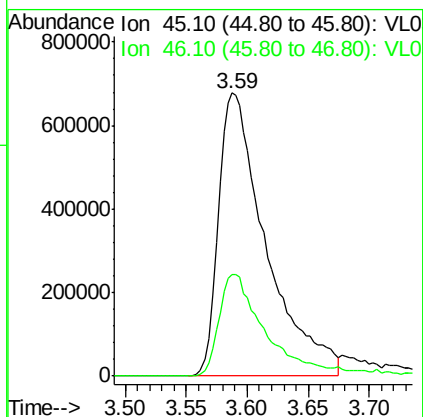
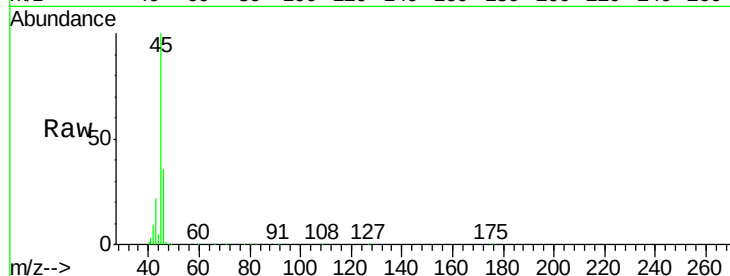
C0P46DL

Tgt Ion: 45 Resp: 1842902

Ion Ratio Lower Upper

45 100

46 37.5 20.2 81.0



#15

Acetone

Concen: 1.740 ppbv

RT: 3.84 min Scan# 329

Delta R.T. -0.01 min

Lab File: VL037813.D

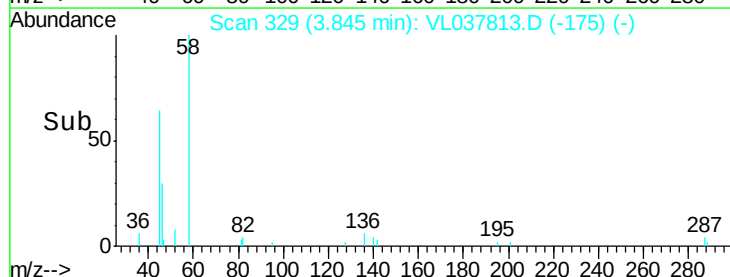
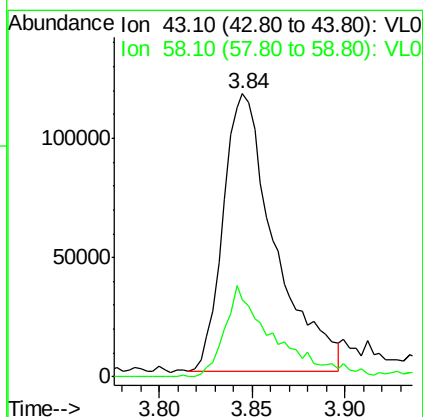
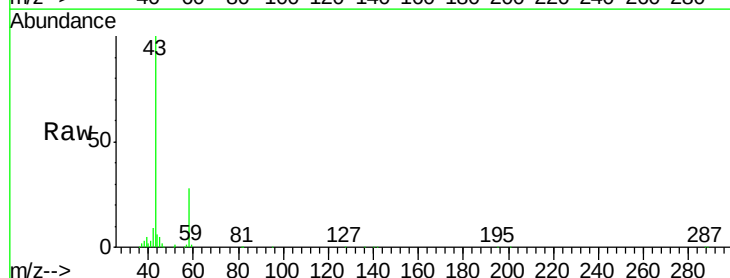
Acq: 8 Oct 2021 2:17

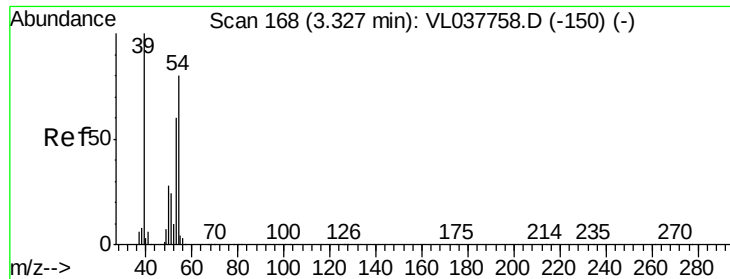
Tgt Ion: 43 Resp: 226151

Ion Ratio Lower Upper

43 100

58 31.6 23.0 34.6

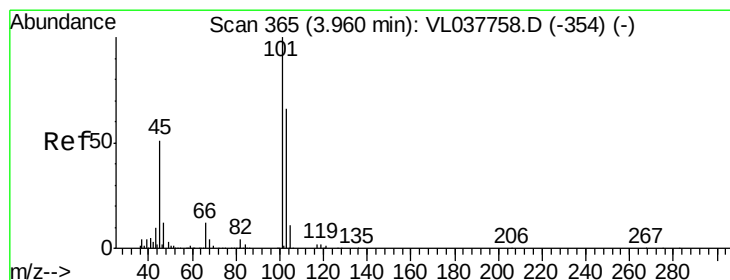
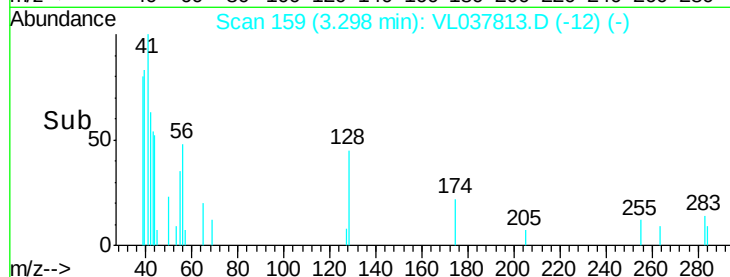
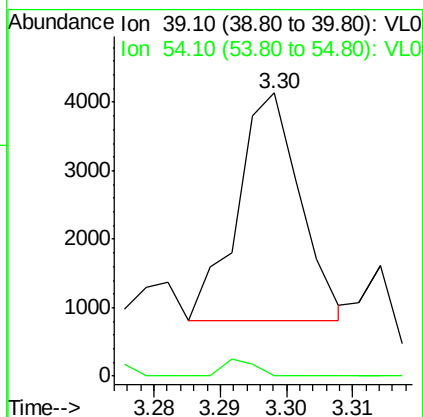
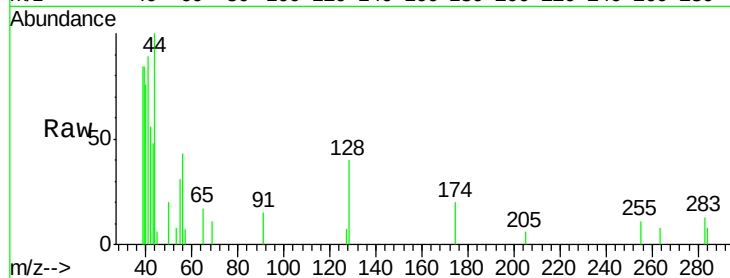




#16
 1,3-Butadiene
 Concen: 0.023 ppbv
 RT: 3.30 min Scan# 159
 Delta R.T. -0.03 min
 Lab File: VL037813.D
 Acq: 8 Oct 2021 2:17

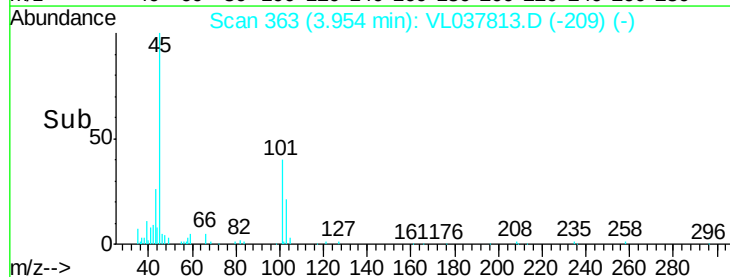
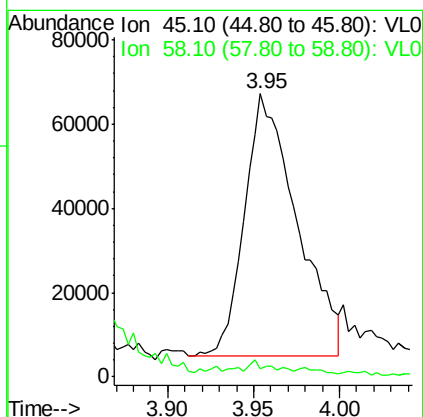
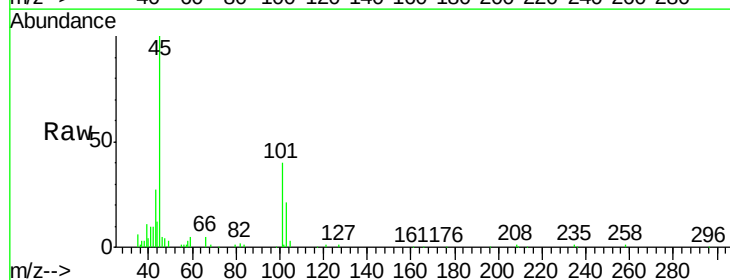
Instrument :
 MSVOA_L
 ClientSampleId :
 C0P46DL

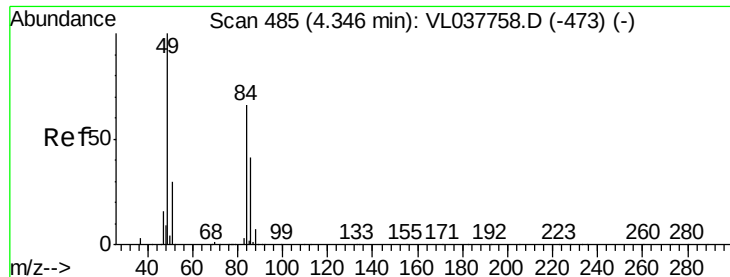
Tgt Ion: 39 Resp: 2164
 Ion Ratio Lower Upper
 39 100
 54 7.3 61.7 92.5#



#19
 Isopropyl Alcohol
 Concen: 1.632 ppbv
 RT: 3.95 min Scan# 363
 Delta R.T. -0.01 min
 Lab File: VL037813.D
 Acq: 8 Oct 2021 2:17

Tgt Ion: 45 Resp: 131955
 Ion Ratio Lower Upper
 45 100
 58 6.6 1.1 1.7#

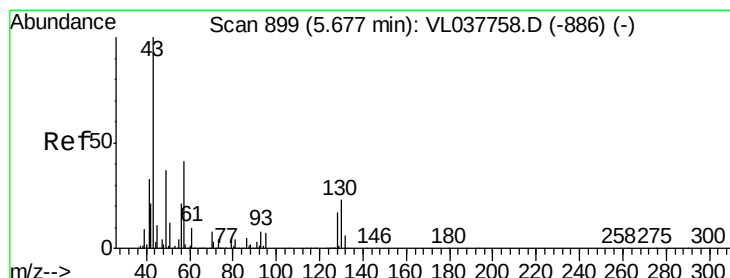
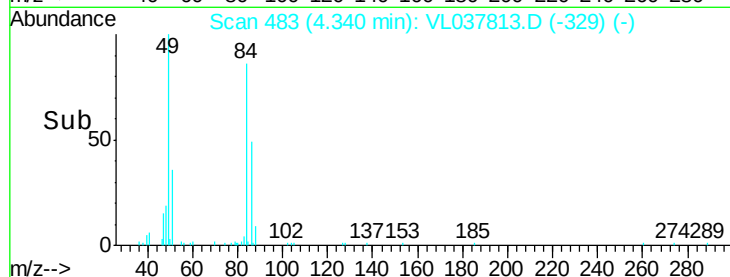
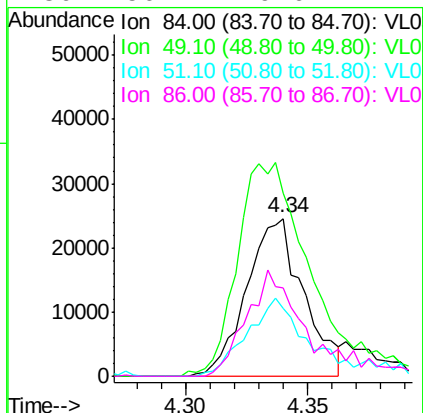
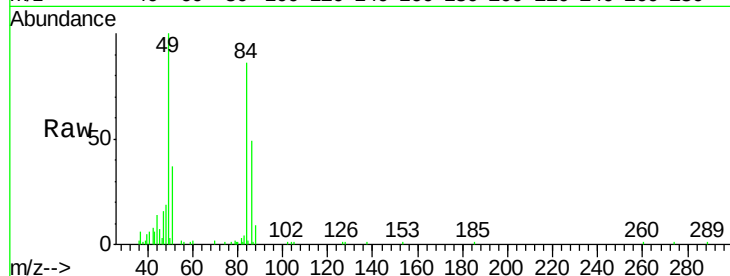




#20
Methylene Chloride
Concen: 0.605 ppbv
RT: 4.34 min Scan# 483
Delta R.T. -0.01 min
Lab File: VL037813.D
Acq: 8 Oct 2021 2:17

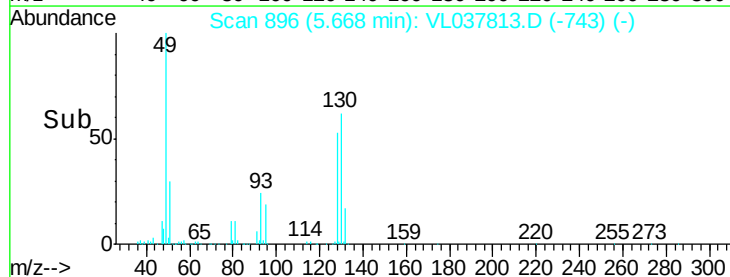
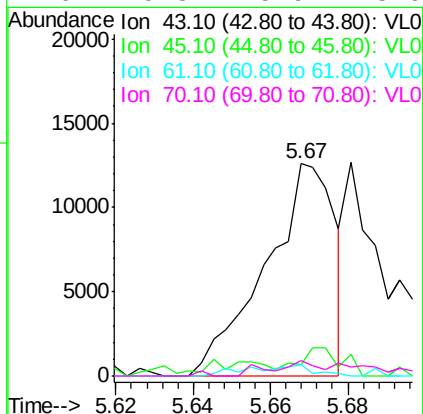
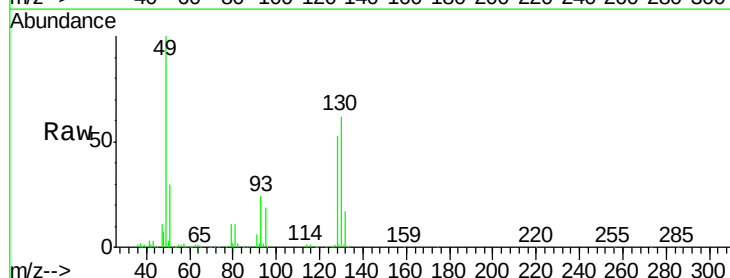
Instrument :
MSVOA_L
ClientSampleId :
C0P46DL

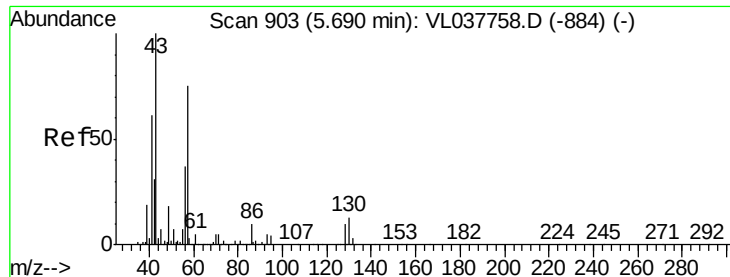
Tgt Ion:	84	Resp:	39714
Ion	Ratio	Lower	Upper
84	100		
49	112.6	120.7	181.1#
51	42.8	36.2	54.4
86	56.4	49.6	74.4



#25
Ethyl Acetate
Concen: 0.043 ppbv
RT: 5.67 min Scan# 896
Delta R.T. -0.01 min
Lab File: VL037813.D
Acq: 8 Oct 2021 2:17

Tgt Ion:	43	Resp:	15634
Ion	Ratio	Lower	Upper
43	100		
45	14.2	8.1	12.1#
61	6.1	7.5	11.3#
70	9.3	5.9	8.9#

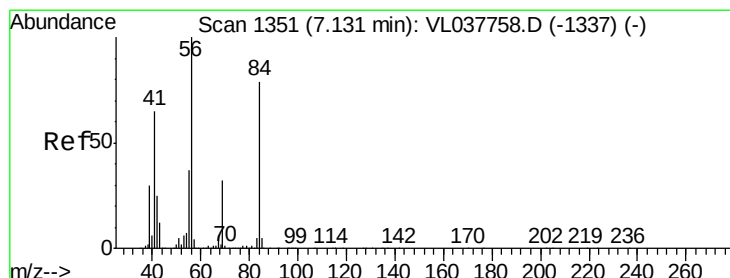
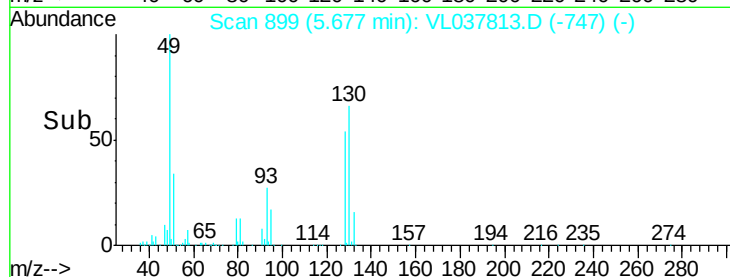
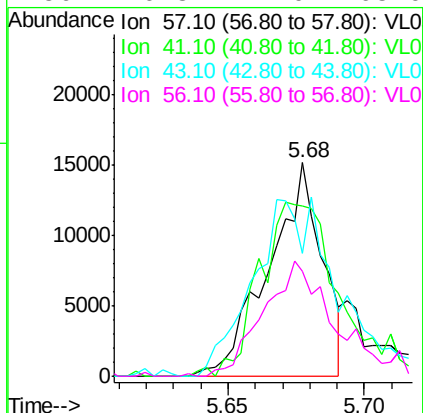
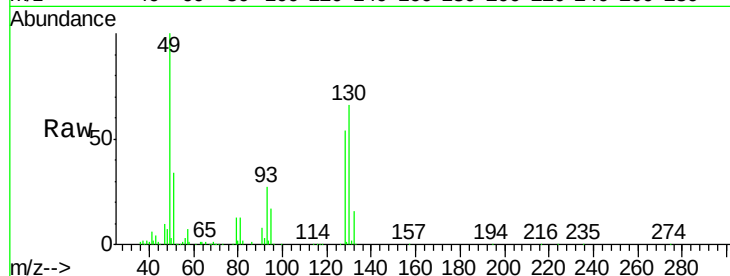




#26
Hexane
Concen: 0.115 ppbv
RT: 5.68 min Scan# 899
Delta R.T. -0.01 min
Lab File: VL037813.D
Acq: 8 Oct 2021 2:17

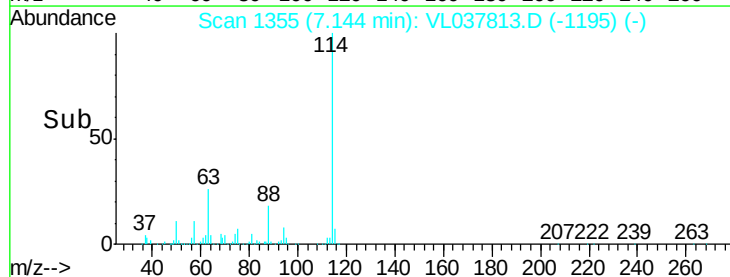
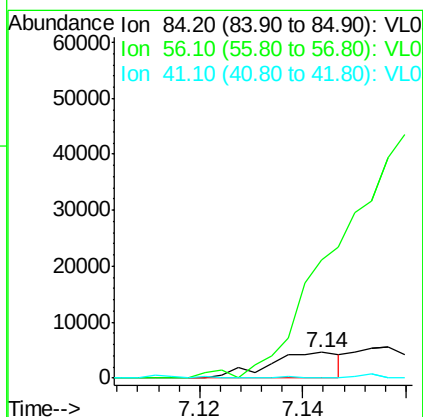
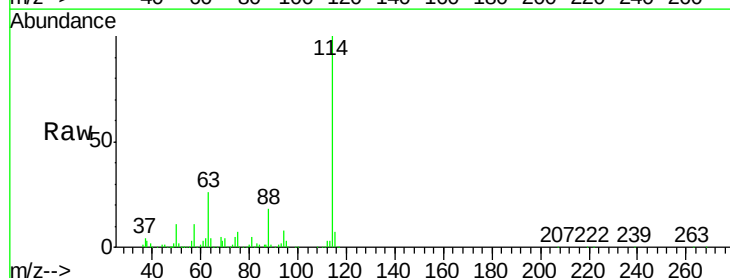
Instrument :
MSVOA_L
ClientSampleId :
C0P46DL

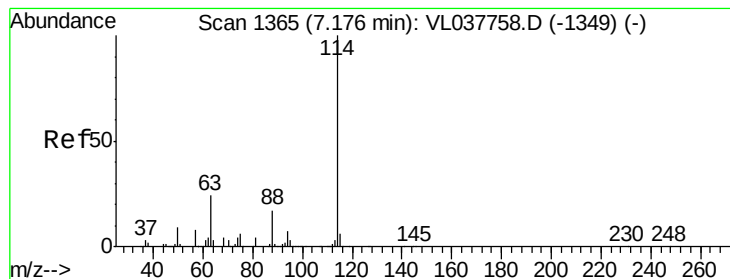
Tgt Ion: 57 Resp: 20593
Ion Ratio Lower Upper
57 100
41 124.0 69.6 104.4#
43 133.7 171.4 257.0#
56 76.8 42.0 63.0#



#30
Cyclohexane
Concen: 0.030 ppbv
RT: 7.14 min Scan# 1355
Delta R.T. 0.01 min
Lab File: VL037813.D
Acq: 8 Oct 2021 2:17

Tgt Ion: 84 Resp: 4516
Ion Ratio Lower Upper
84 100
56 0.0 113.0 169.4#
41 12.6 69.1 103.7#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16 min Scan# 1360

Delta R.T. -0.02 min

Lab File: VL037813.D

Acq: 8 Oct 2021 2:17

Instrument :

MSVOA_L

ClientSampleId :

C0P46DL

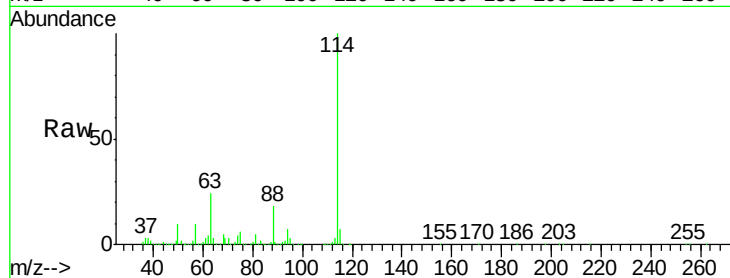
Tgt Ion:114 Resp: 4003806

Ion Ratio Lower Upper

114 100

63 24.7 19.4 29.2

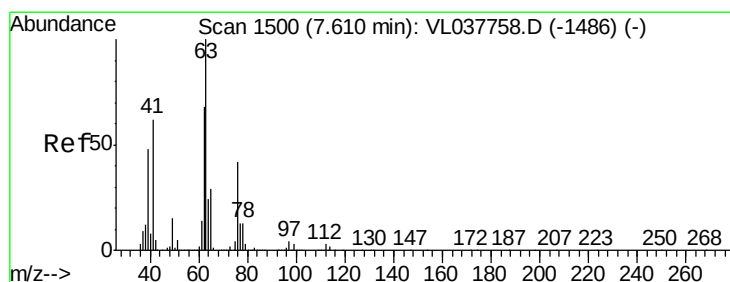
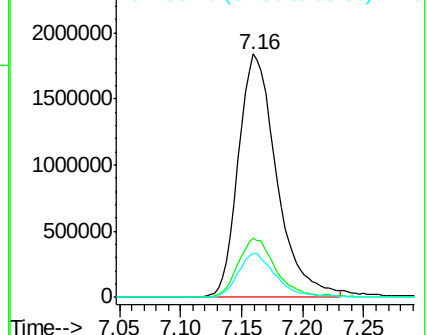
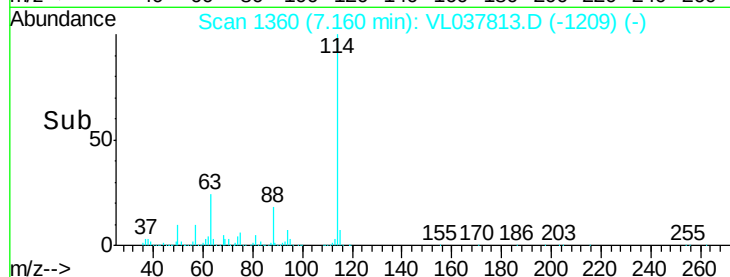
88 18.1 14.4 21.6



Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#39

1,2-Dichloropropane

Concen: 7.351 ppbv

RT: 7.16 min Scan# 1360

Delta R.T. -0.45 min

Lab File: VL037813.D

Acq: 8 Oct 2021 2:17

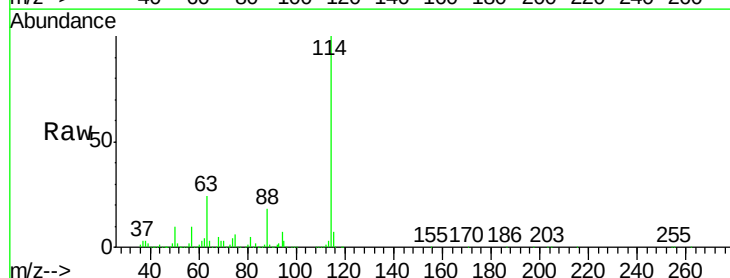
Tgt Ion: 63 Resp: 945590

Ion Ratio Lower Upper

63 100

41 0.0 49.8 74.6#

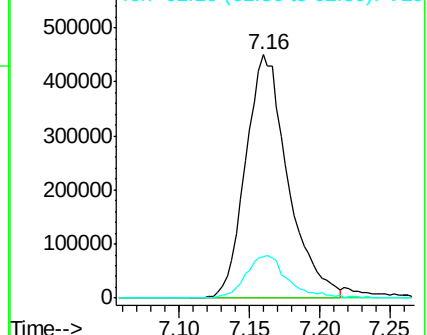
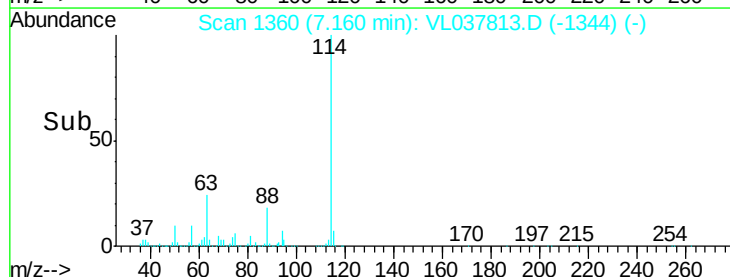
62 16.9 54.6 82.0#

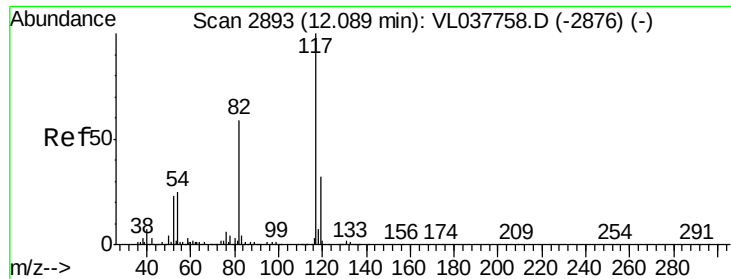


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0

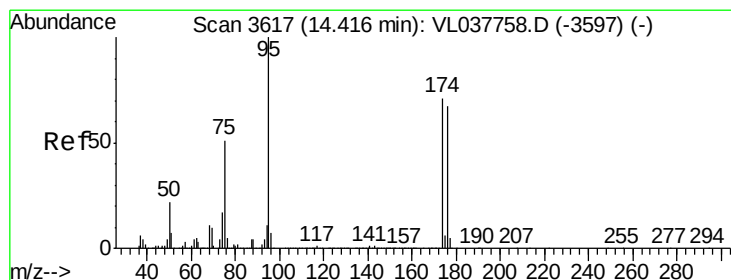
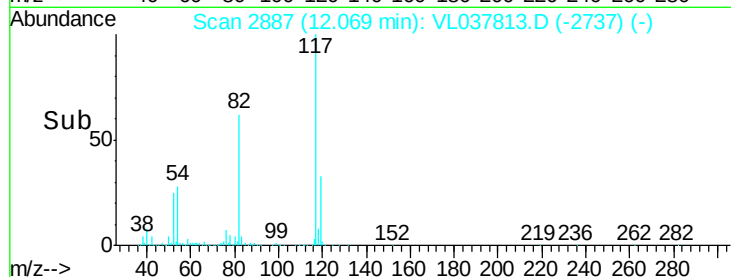
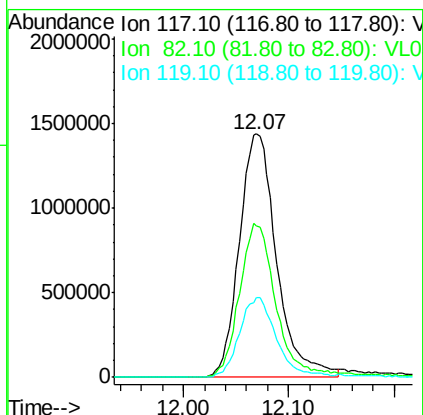
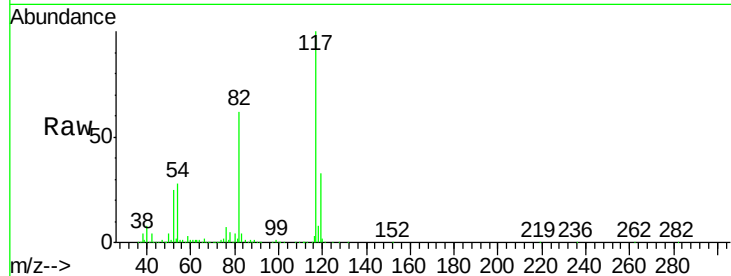




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.07 min Scan# 2887
Delta R.T. -0.02 min
Lab File: VL037813.D
Acq: 8 Oct 2021 2:17

Instrument :
MSVOA_L
ClientSampleId :
C0P46DL

Tgt Ion: 117 Resp: 3542616
Ion Ratio Lower Upper
117 100
82 64.4 52.2 78.2
119 33.6 26.0 39.0



#68
1-Bromo-4-Fluorobenzene
Concen: 9.660 ppbv
RT: 14.40 min Scan# 3612
Delta R.T. -0.02 min
Lab File: VL037813.D
Acq: 8 Oct 2021 2:17

Tgt Ion: 95 Resp: 2393090
Ion Ratio Lower Upper
95 100
174 76.6 57.8 86.6
175 5.8 4.7 7.1

