

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050522\
 Data File : VL038980.D
 Acq On : 5 May 2022 20:01
 Operator : SY/AP
 Sample : N2698-05DL 5X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1DL

Quant Time: May 06 07:29:54 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050522AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May 05 07:41:27 2022
 QLast Update : Thu May 05 07:41:27 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1210785	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3069732	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	2597333	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	1990944	9.68	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.80%

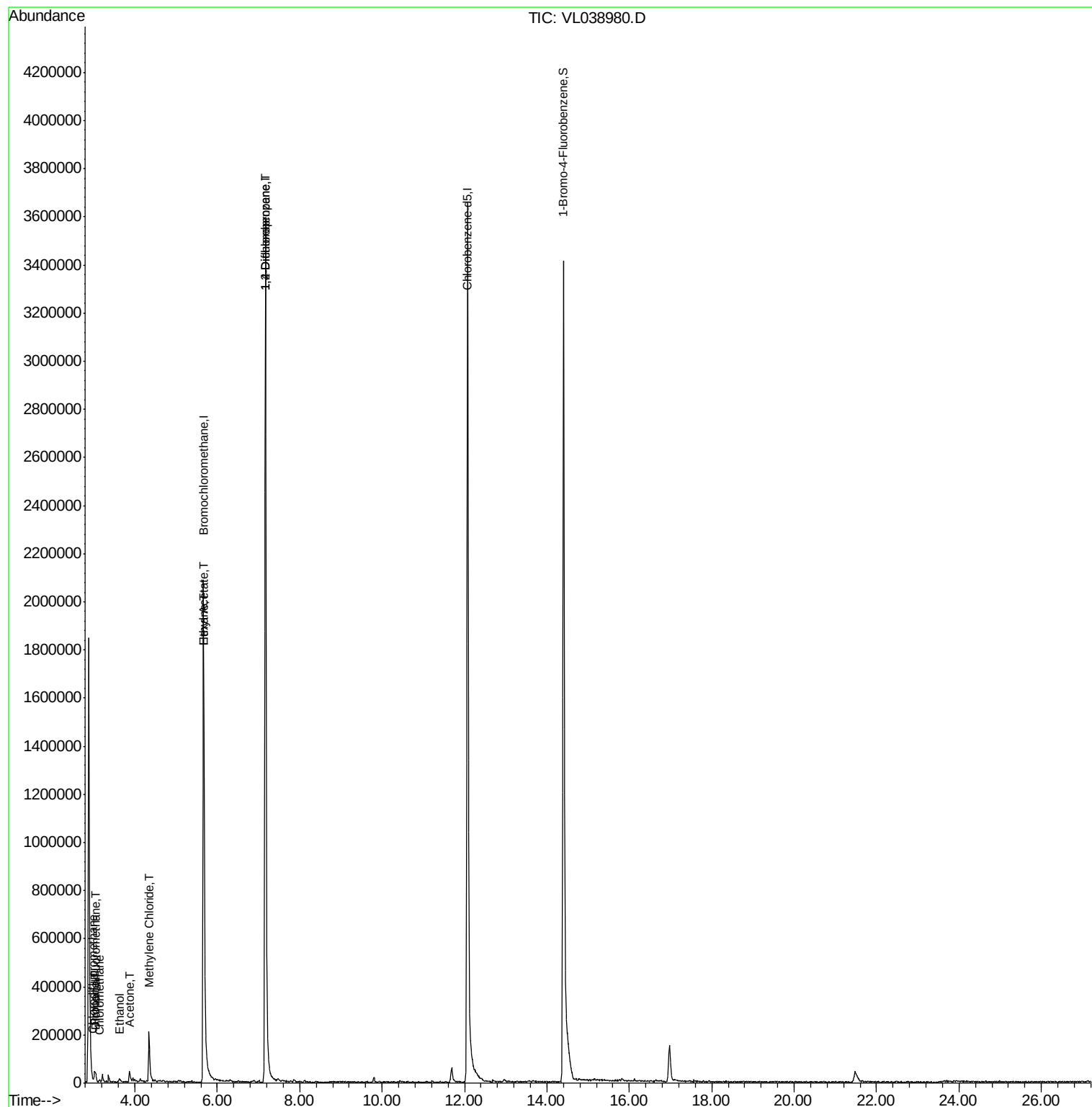
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	18010	0.095	ppbv	90
3) Chlorodifluoromethane	2.99	51	13613	0.091	ppbv #	81
4) Chloromethane	3.14	50	7576	0.101	ppbv	96
9) Propene	3.02	41	9031	0.138	ppbv	97
13) Ethanol	3.61	45	5974	1.166	ppbv #	31
15) Acetone	3.86	43	21650	0.190	ppbv #	48
20) Methylene Chloride	4.34	84	37722	0.876	ppbv	88
25) Ethyl Acetate	5.68	43	70336	0.257	ppbv #	77
26) Hexane	5.68	57	96554	0.795	ppbv #	40
39) 1,2-Dichloropropane	7.17	63	777885	7.610	ppbv #	26

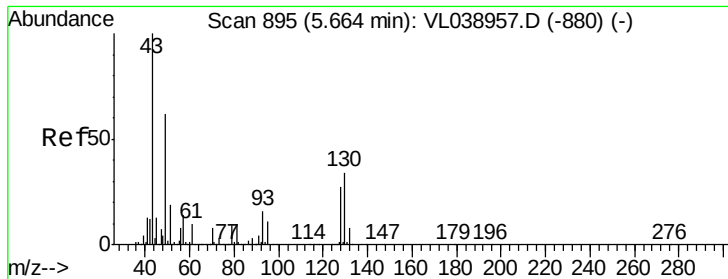
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument: MSVOA_L

Delta R.T. 0.00

Lab File: ClientSampleId: OA1DL

Acq: 5 May 2022 20:01

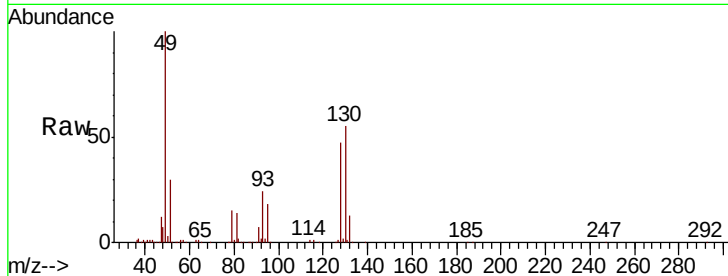
Tot Ion: 49 Resp: 1210785

Ion Ratio Lower Upper

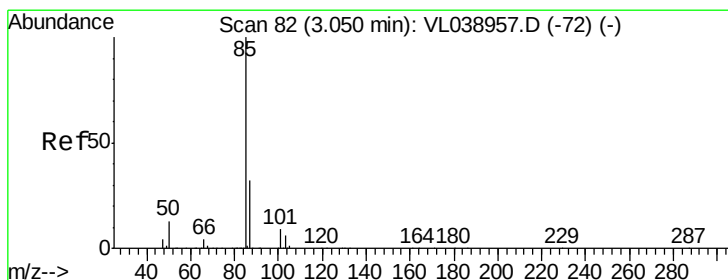
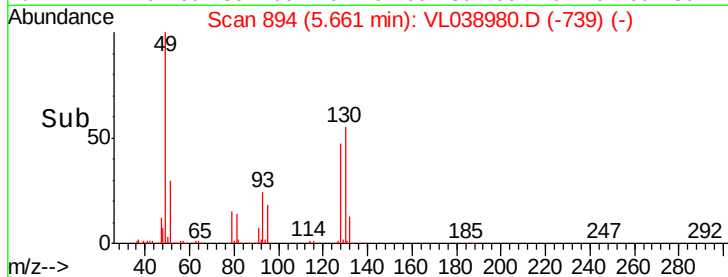
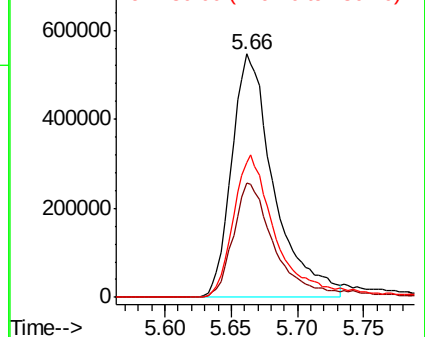
49 100

128 48.8 23.3 69.8

130 61.6 29.8 89.3



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: 0.095 ppbv

RT: 3.05 min Scan# 83

Delta R.T. 0.00 min

Lab File: VL038980.D

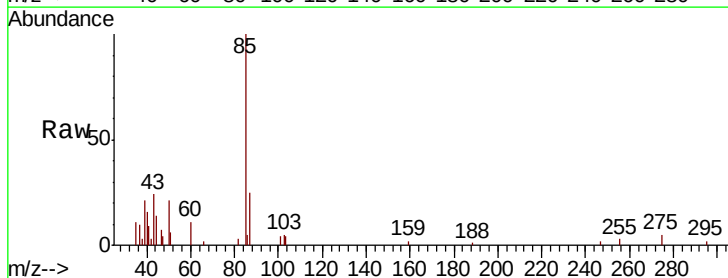
Acq: 5 May 2022 20:01

Tgt Ion: 85 Resp: 18010

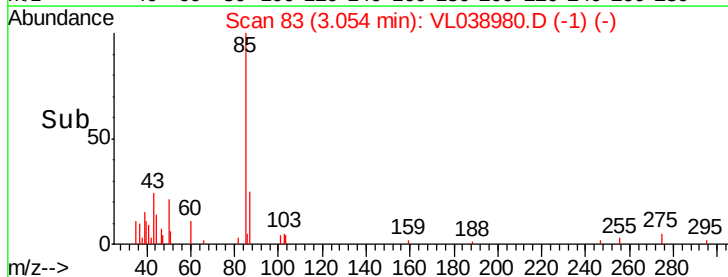
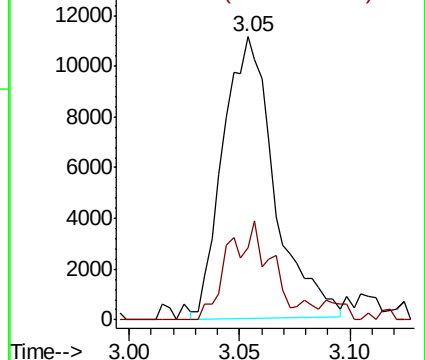
Ion Ratio Lower Upper

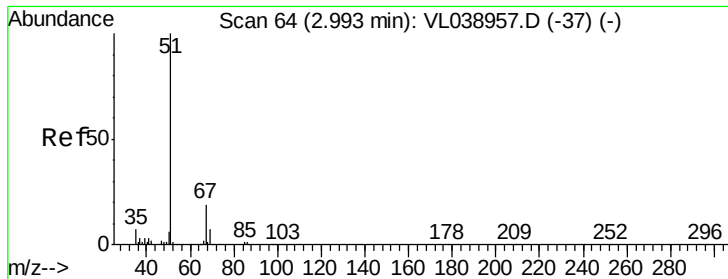
85 100

87 26.3 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: 0.091 ppbv

RT: 2.99 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

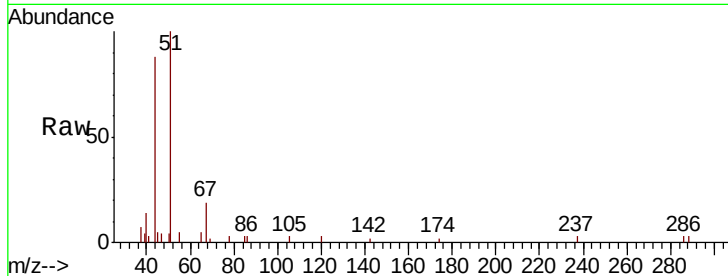
Acq: 5 May 2022 20:01

Tot Ion: 51 Resp: 13613

Ion Ratio Lower Upper

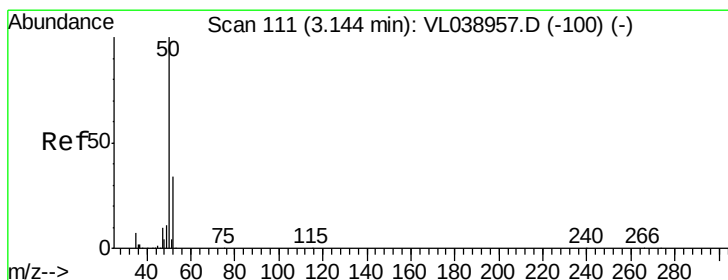
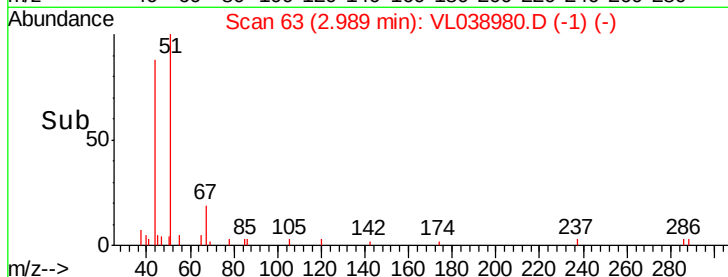
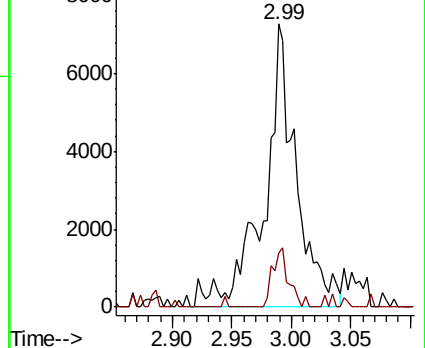
51 100

67 10.9 15.8 23.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.101 ppbv

RT: 3.14 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL038980.D

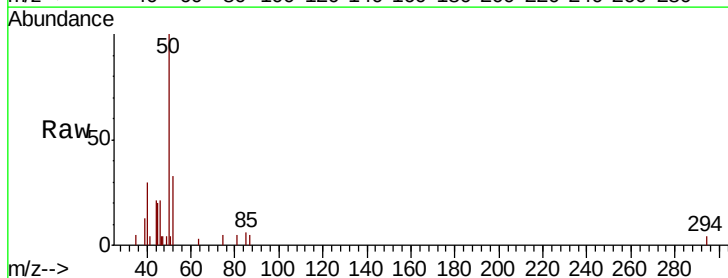
Acq: 5 May 2022 20:01

Tgt Ion: 50 Resp: 7576

Ion Ratio Lower Upper

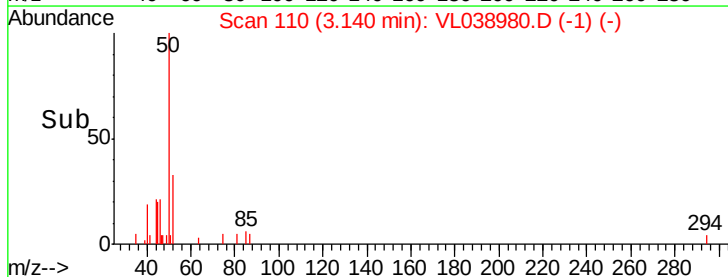
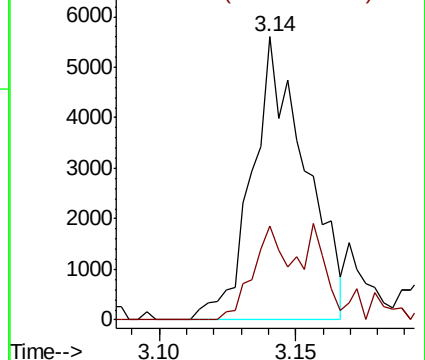
50 100

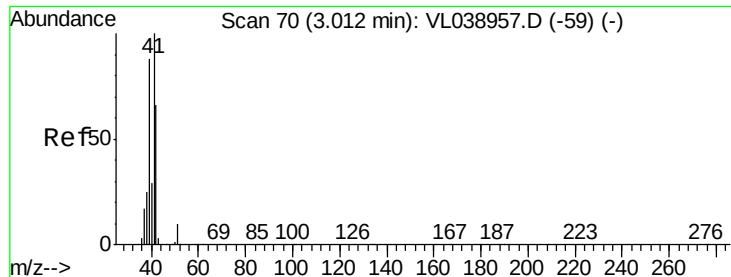
52 32.0 27.3 40.9



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.138 ppbv

RT: 3.02 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

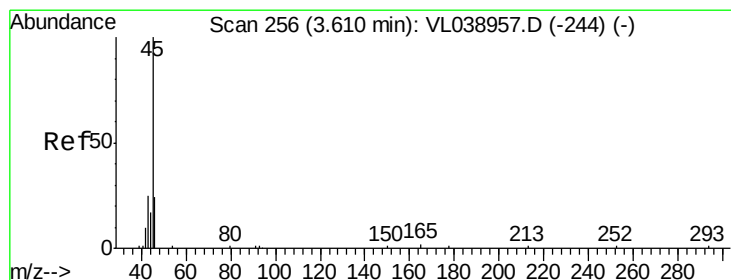
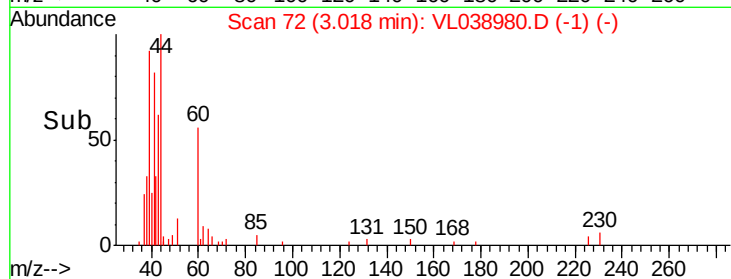
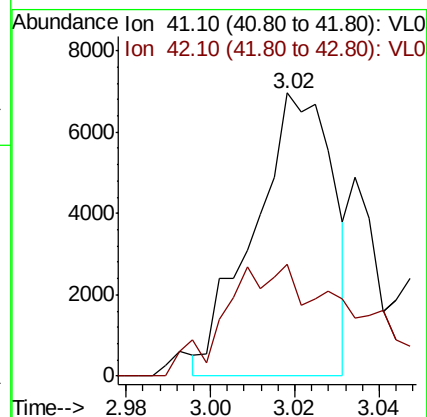
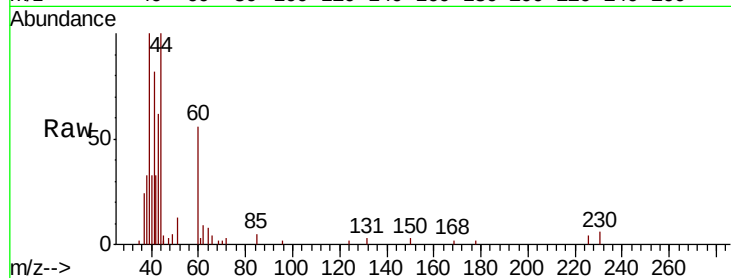
Acq: 5 May 2022 20:01

Tot Ion: 41 Resp: 9031

Ion Ratio Lower Upper

41 100

42 70.6 58.3 87.5



#13

Ethanol

Concen: 1.166 ppbv

RT: 3.61 min Scan# 257

Delta R.T. 0.00 min

Lab File: VL038980.D

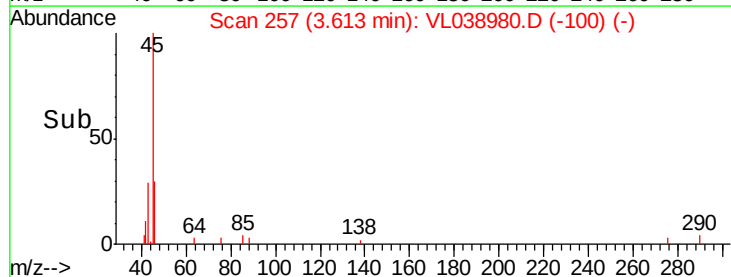
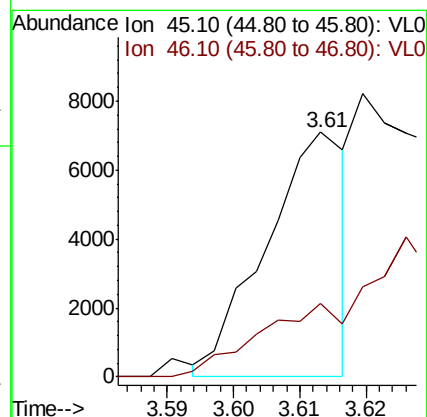
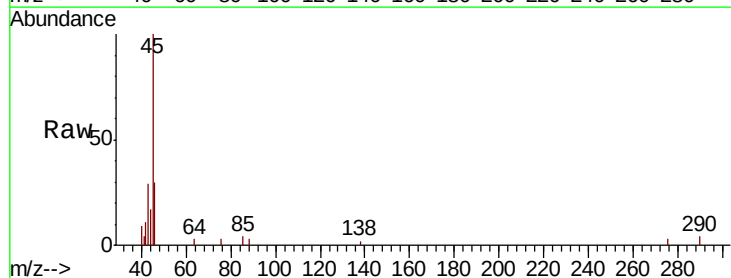
Acq: 5 May 2022 20:01

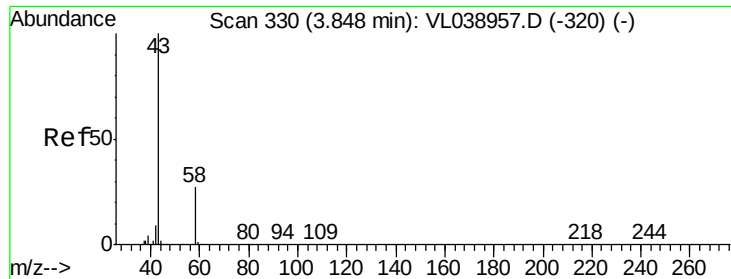
Tgt Ion: 45 Resp: 5974

Ion Ratio Lower Upper

45 100

46 0.0 18.0 72.2#





#15

Acetone

Concen: 0.190 ppbv

RT: 3.86 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

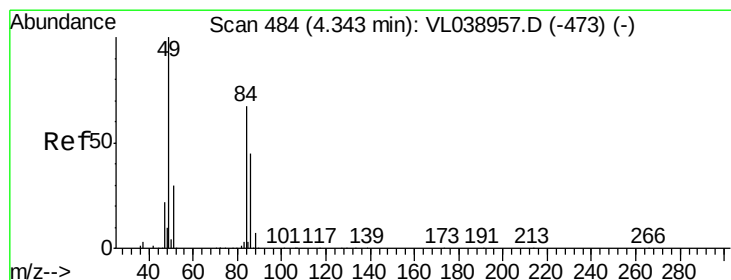
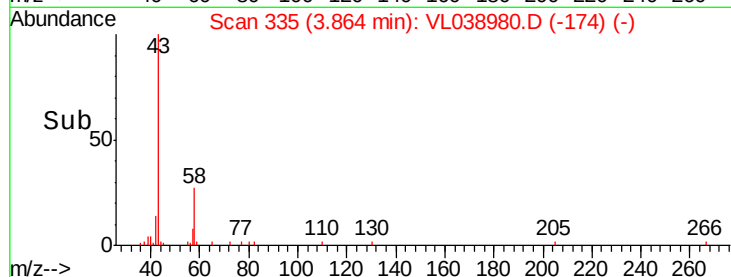
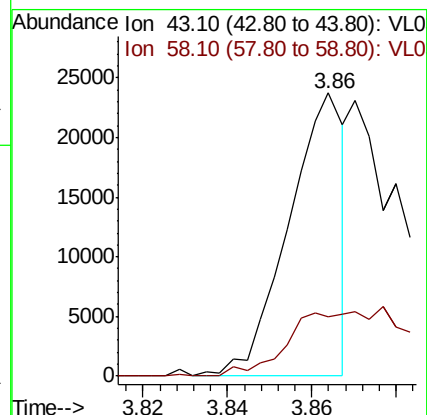
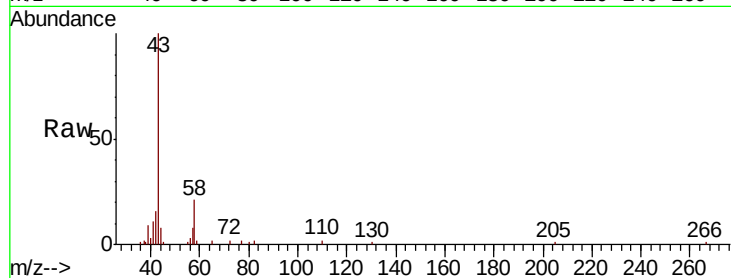
Acq: 5 May 2022 20:01

Tot Ion: 43 Resp: 21650

Ion Ratio Lower Upper

43 100

58 0.0 21.3 31.9#



#20

Methylene Chloride

Concen: 0.876 ppbv

RT: 4.34 min Scan# 483

Delta R.T. -0.00 min

Lab File: VL038980.D

Acq: 5 May 2022 20:01

Tgt Ion: 84 Resp: 37722

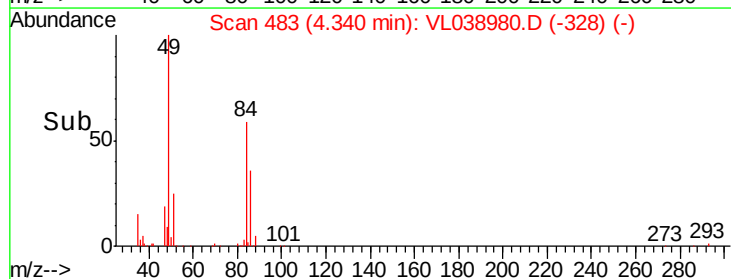
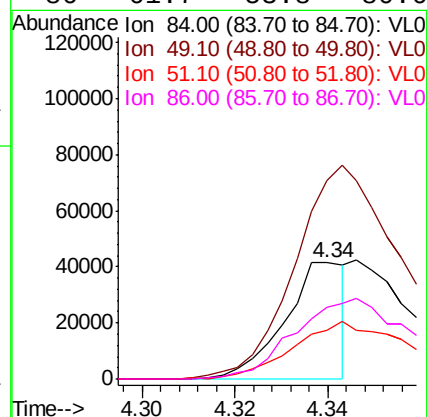
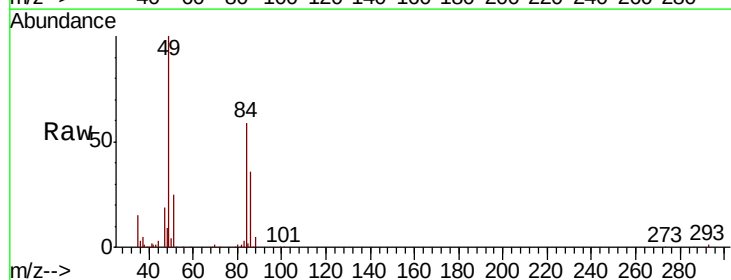
Ion Ratio Lower Upper

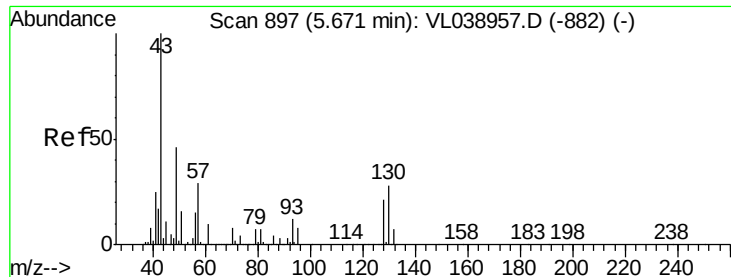
84 100

49 169.6 119.9 179.9

51 41.2 35.7 53.5

86 61.7 53.8 80.6





#25

Ethyl Acetate

Concen: 0.257 ppbv

RT: 5.68 Instrument:

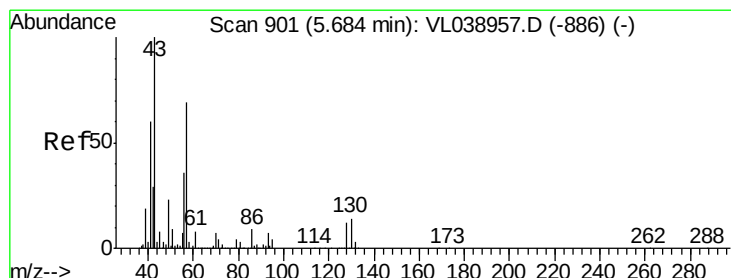
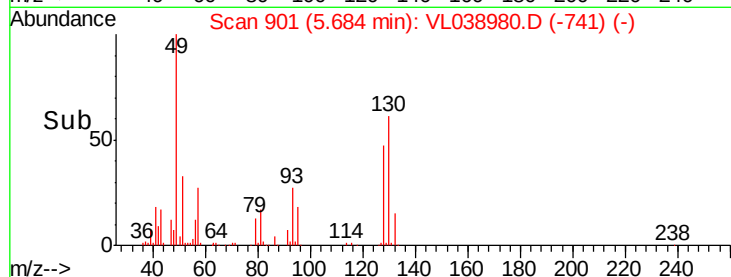
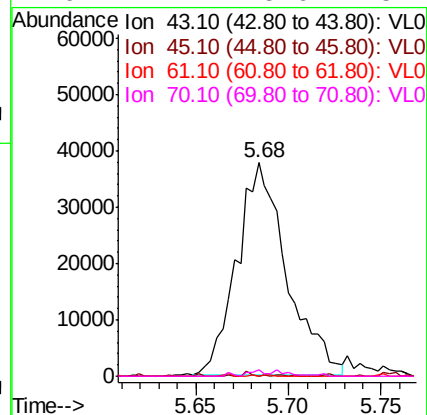
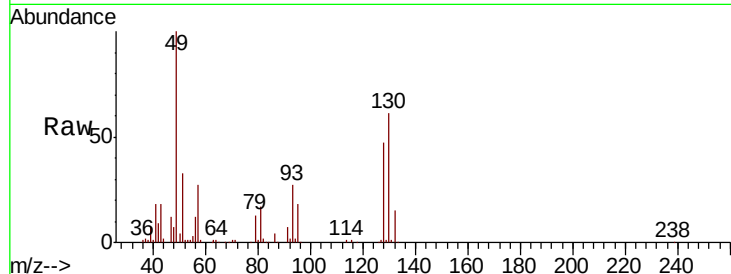
Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 5 May 2022 20:01

Tot Ion: 43 Resp: 70336

Ion	Ratio	Lower	Upper
43	100		
45	0.5	8.1	12.1#
61	0.4	7.8	11.6#
70	2.2	5.6	8.4#



#26

Hexane

Concen: 0.795 ppbv

RT: 5.68 min Scan# 901

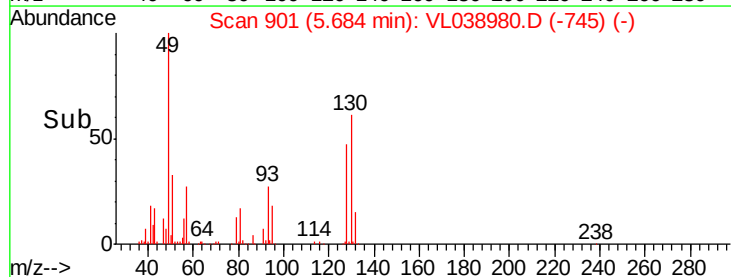
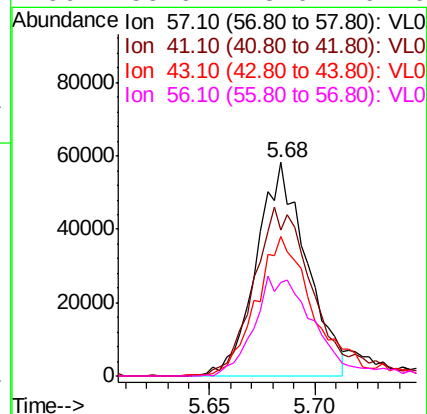
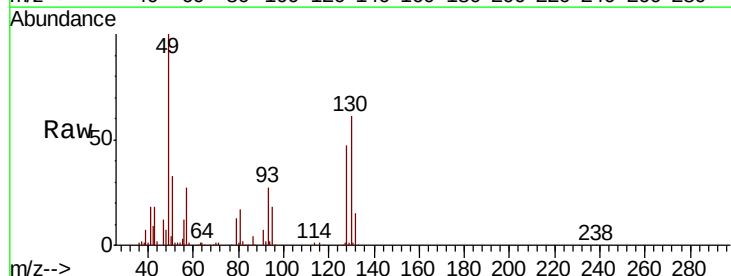
Delta R.T. 0.00 min

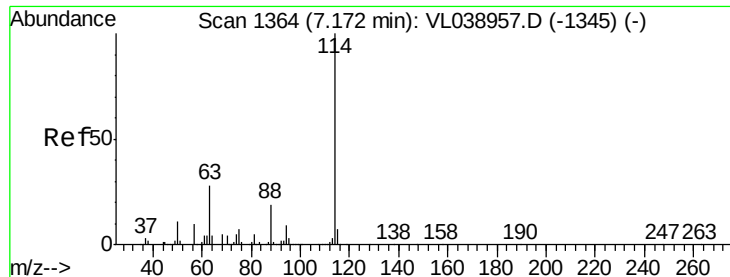
Lab File: VL038980.D

Acq: 5 May 2022 20:01

Tgt Ion: 57 Resp: 96554

Ion	Ratio	Lower	Upper
57	100		
41	97.1	75.2	112.8
43	77.8	190.8	286.2#
56	55.9	43.0	64.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 5 May 2022 20:01

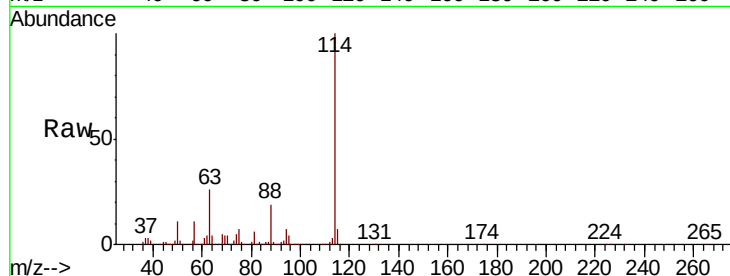
Tot Ion:114 Resp: 3069732

Ion Ratio Lower Upper

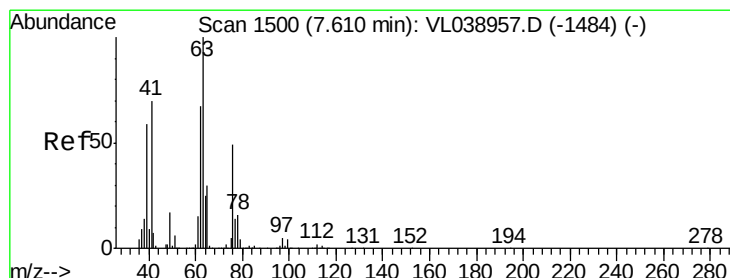
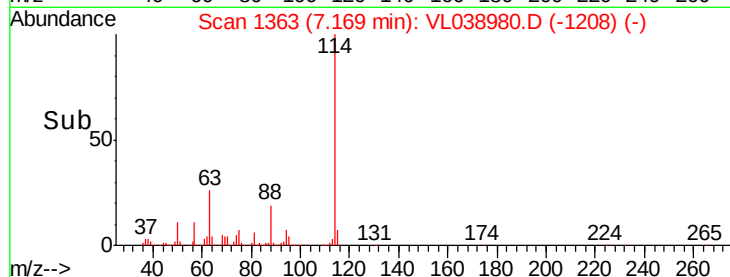
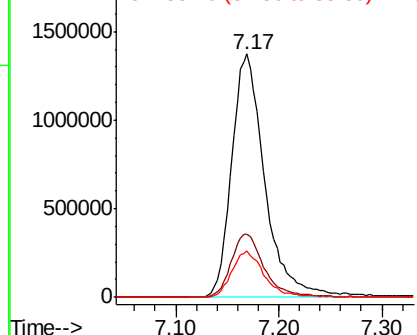
114 100

63 26.6 22.6 33.8

88 19.0 15.4 23.0



Abundance Ion 114.10 (113.80 to 114.80): VL0
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0



#39

1,2-Dichloropropane

Concen: 7.610 ppbv

RT: 7.17 min Scan# 1363

Delta R.T. -0.44 min

Lab File: VL038980.D

Acq: 5 May 2022 20:01

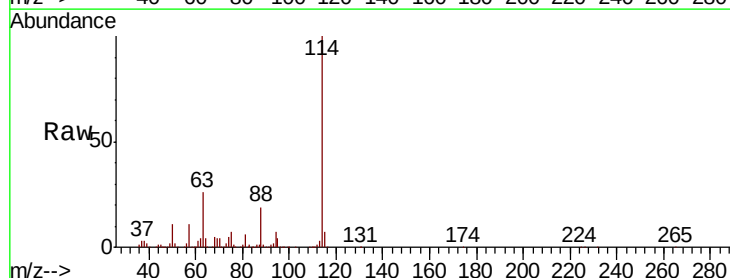
Tgt Ion: 63 Resp: 777885

Ion Ratio Lower Upper

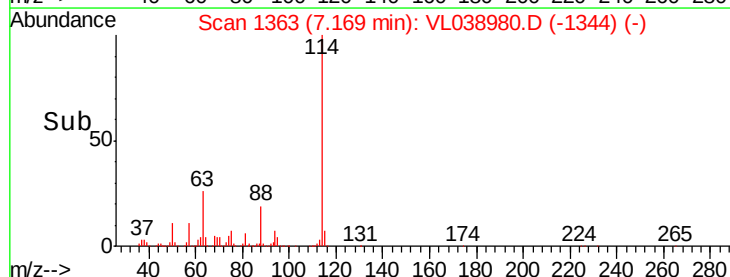
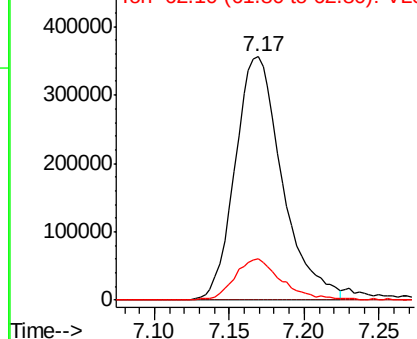
63 100

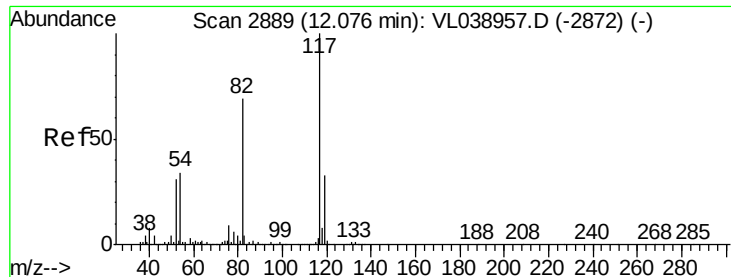
41 0.0 55.9 83.9#

62 17.1 53.8 80.6#



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

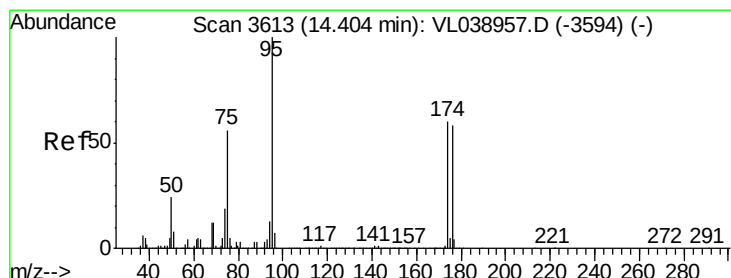
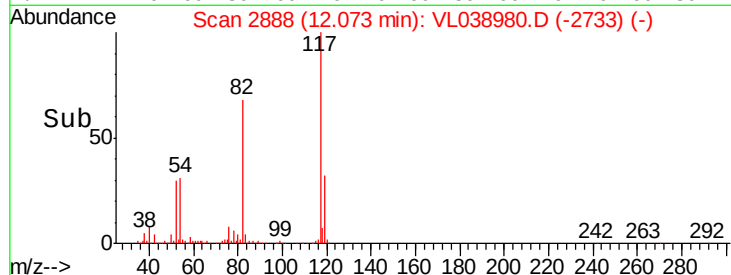
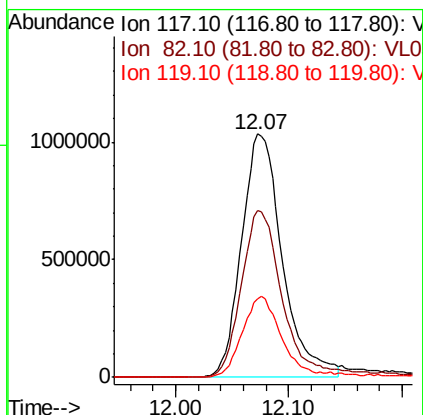
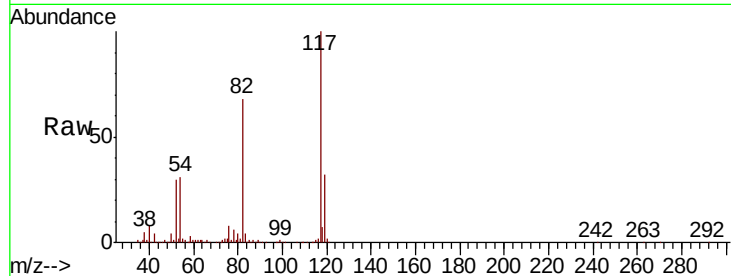




#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.07 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 5 May 2022 20:01

Tot Ion: 117 Resp: 2597333

Ion	Ratio	Lower	Upper
117	100		
82	72.8	57.0	85.6
119	33.9	27.2	40.8



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.679 ppbv
 RT: 14.40 min Scan# 3613
 Delta R.T.: 0.00 min
 Lab File: VL038980.D
 Acq: 5 May 2022 20:01

Tgt Ion: 95 Resp: 1990944

Ion	Ratio	Lower	Upper
95	100		
174	67.0	50.8	76.2
175	5.2	3.8	5.6

