

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111021\
 Data File : VL038019.D
 Acq On : 11 Nov 2021 8:54
 Operator : SY/AP
 Sample : OC111021 CAN 10060
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Nov 12 05:52:54 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110121AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Nov 02 05:54:07 2021
 QLast Update : Tue Nov 02 05:54:07 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1228164	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.15	114	3774740	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.06	117	3256962	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.38	95	2301674	9.72	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.20%

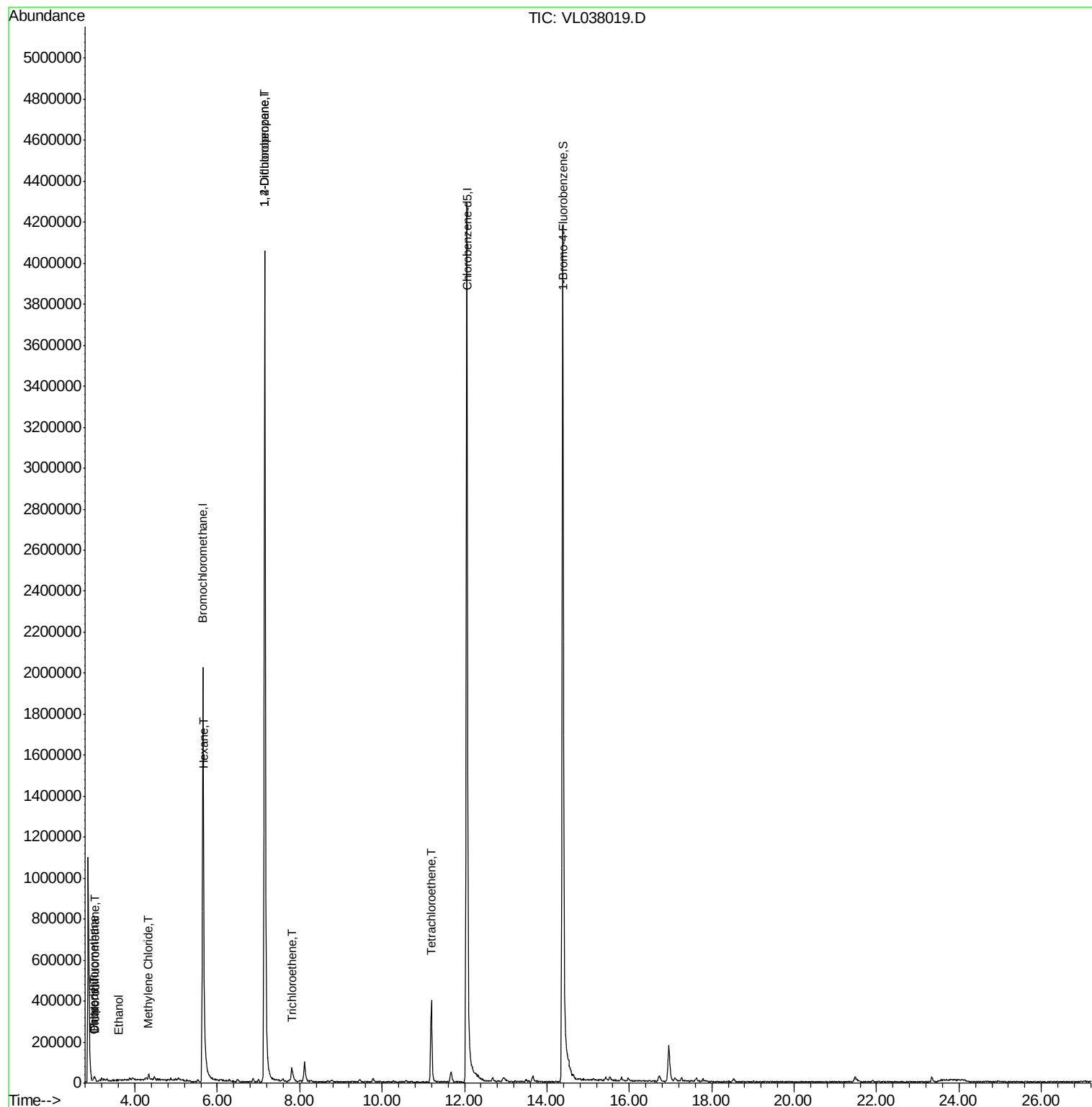
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	8125	0.047	ppbv #	67
3) Chlorodifluoromethane	2.99	51	10262	0.045	ppbv	93
9) Propene	3.01	41	7415	0.090	ppbv	96
13) Ethanol	3.61	45	546	0.066	ppbv #	32
20) Methylene Chloride	4.33	84	2597	0.047	ppbv #	42
26) Hexane	5.67	57	5919	0.041	ppbv #	80
38) Trichloroethene	7.80	130	5063	0.040	ppbv	82
39) 1,2-Dichloropropane	7.15	63	872340	7.542	ppbv #	28
52) Tetrachloroethene	11.19	164	110634	0.949	ppbv	86

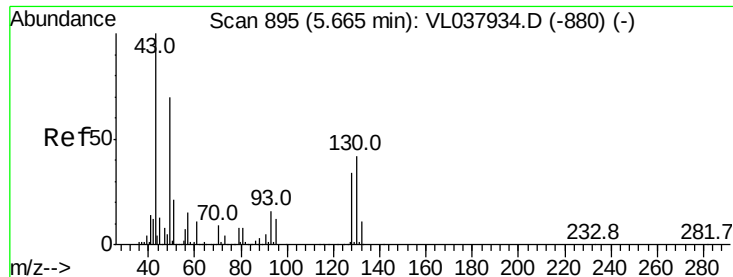
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Misc : 400mL/MSVOA L
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Instrument :
MSVOA_L
ClientSampleId :

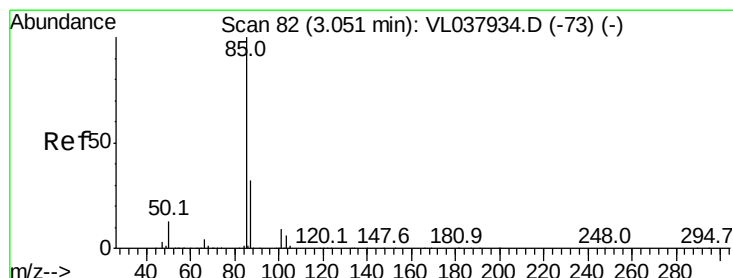
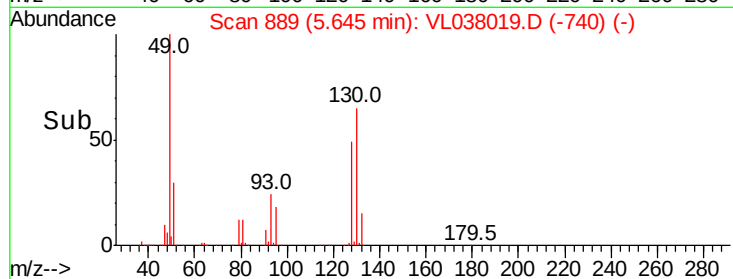
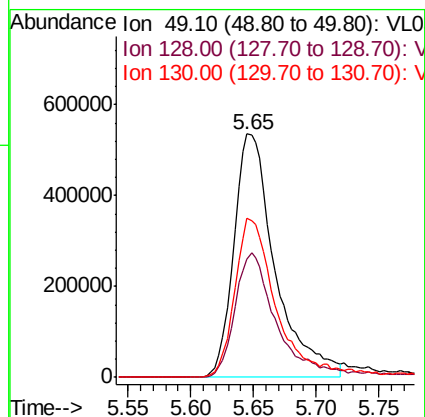
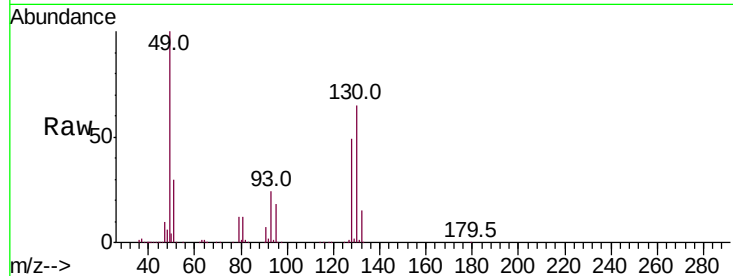
Quant Time: Nov 12 05:52:54 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL110121AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Nov 02 05:54:07 2021
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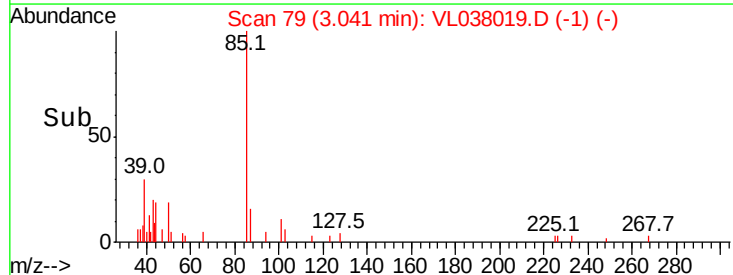
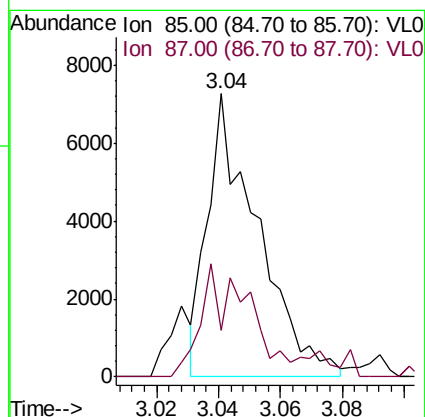
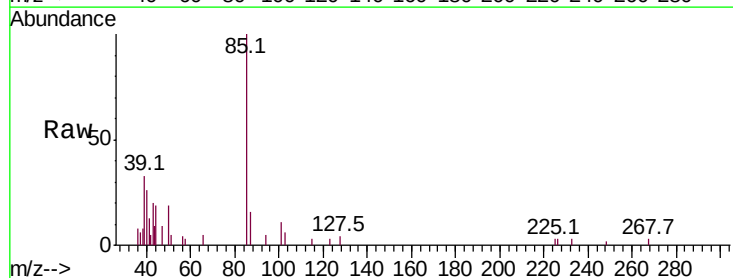
#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.65
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 11 Nov 2021 8:54

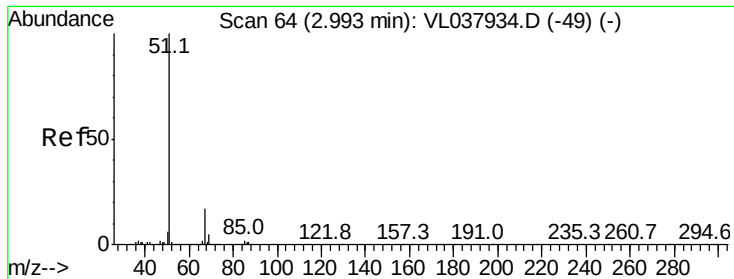
Tot Ion: 49 Resp: 1228164
 Ion Ratio Lower Upper
 49 100
 128 53.8 27.0 81.0
 130 69.7 33.4 100.2



#2
 Dichlorodifluoromethane
 Concen: 0.047 ppbv
 RT: 3.04 min Scan# 79
 Delta R.T. -0.01 min
 Lab File: VL038019.D
 Acq: 11 Nov 2021 8:54

Tgt Ion: 85 Resp: 8125
 Ion Ratio Lower Upper
 85 100
 87 13.1 25.3 37.9#





#3

Chlorodifluoromethane

Concen: 0.045 ppbv

RT: 2.99 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

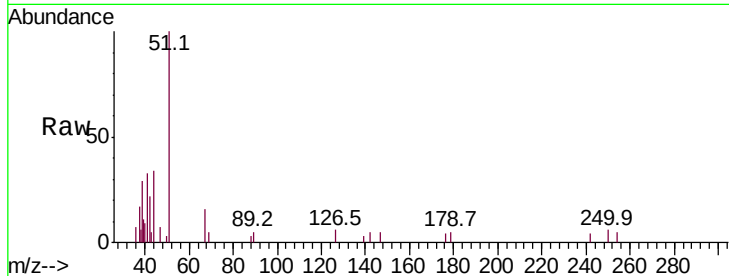
Acq: 11 Nov 2021 8:54

Tot Ion: 51 Resp: 10262

Ion Ratio Lower Upper

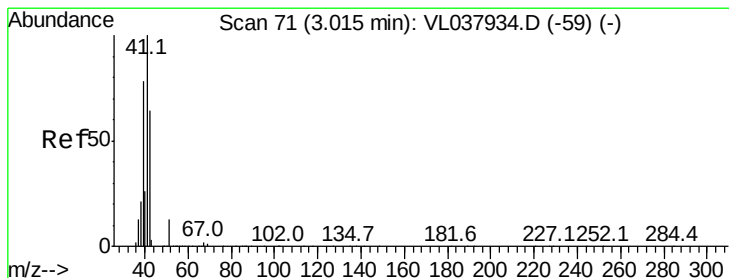
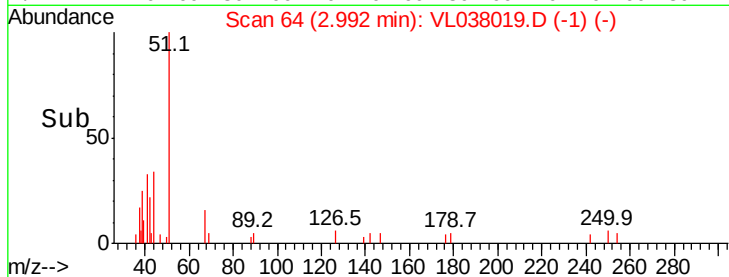
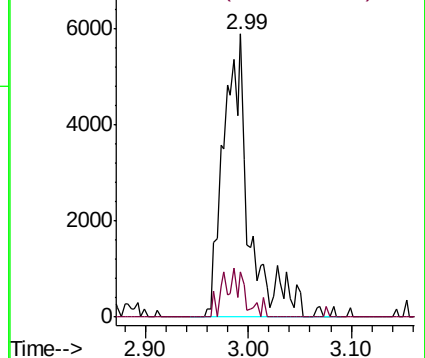
51 100

67 13.8 13.4 20.0



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#9

Propene

Concen: 0.090 ppbv

RT: 3.01 min Scan# 70

Delta R.T. -0.00 min

Lab File: VL038019.D

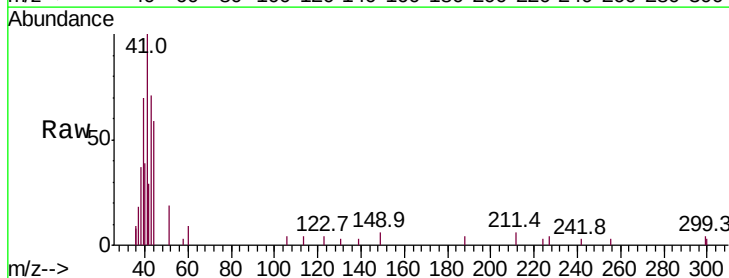
Acq: 11 Nov 2021 8:54

Tgt Ion: 41 Resp: 7415

Ion Ratio Lower Upper

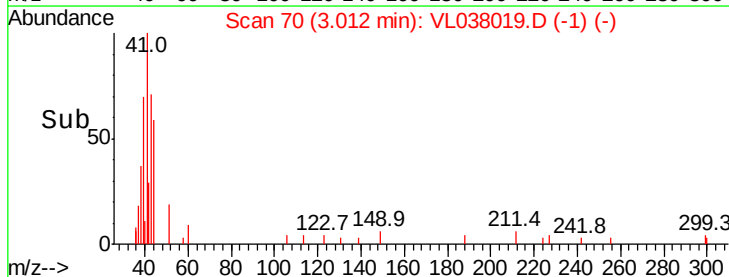
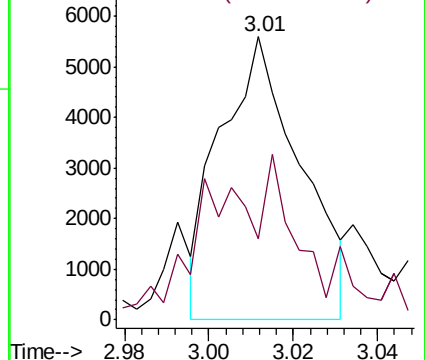
41 100

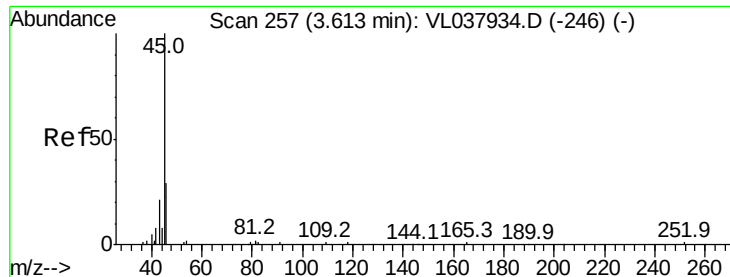
42 75.1 57.6 86.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

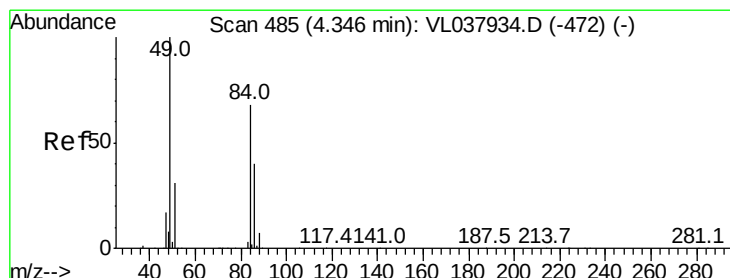
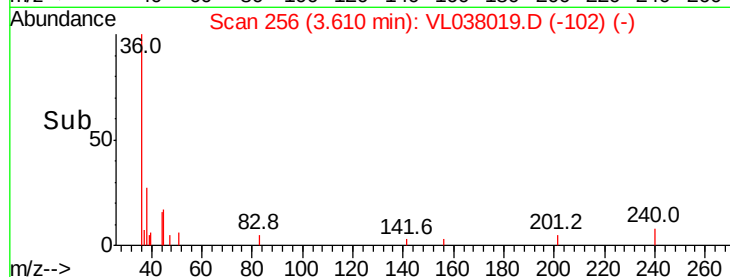
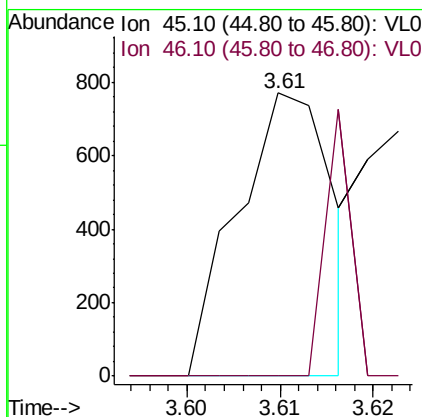
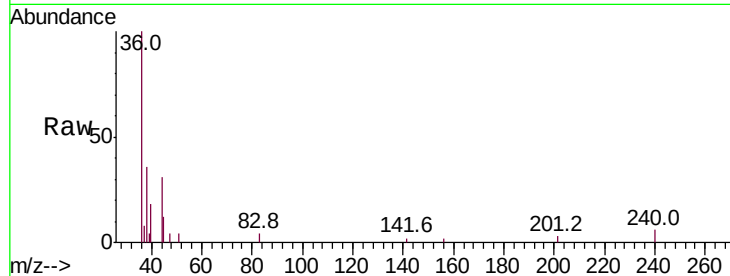
Ion 42.10 (41.80 to 42.80): VL0





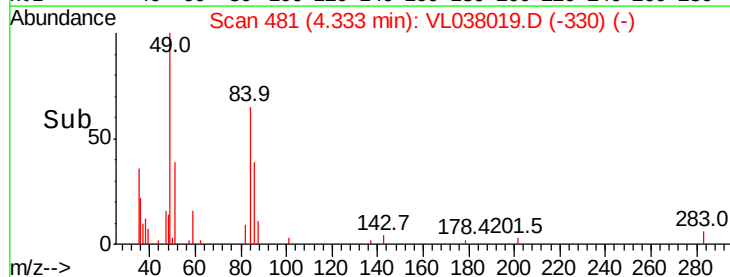
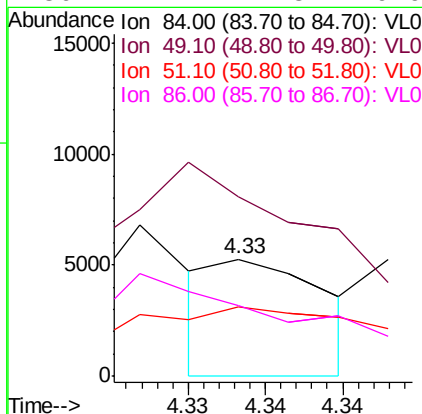
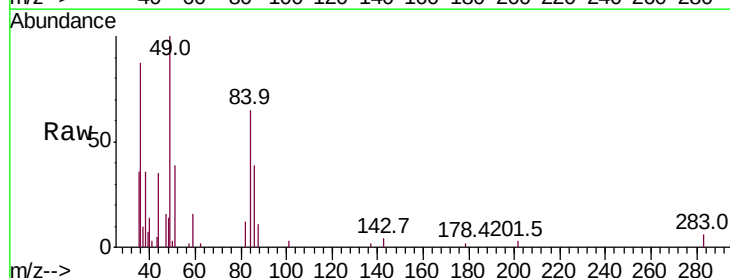
#13
 Ethanol
 Concen: 0.066 ppbv
 RT: 3.61 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId:
 Acq: 11 Nov 2021 8:54

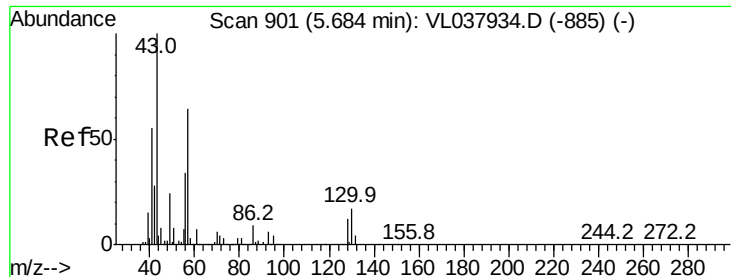
Tot Ion	45	46	Ratio	100	0.0	Resp	546	Lower	Upper
45	100								
46		0.0			17.4		69.8#		



#20
 Methylene Chloride
 Concen: 0.047 ppbv
 RT: 4.33 min Scan# 481
 Delta R.T. -0.01 min
 Lab File: VL038019.D
 Acq: 11 Nov 2021 8:54

Tgt Ion	84	49	51	86	Ratio	100	49.9	34.0	27.7	Resp	2597	Lower	Upper
84	100												
49		49.9				117.5	176.3#						
51			34.0			35.9	53.9#						
86				27.7		47.3	70.9#						





#26

Hexane

Concen: 0.041 ppbv

RT: 5.67 Instrument:

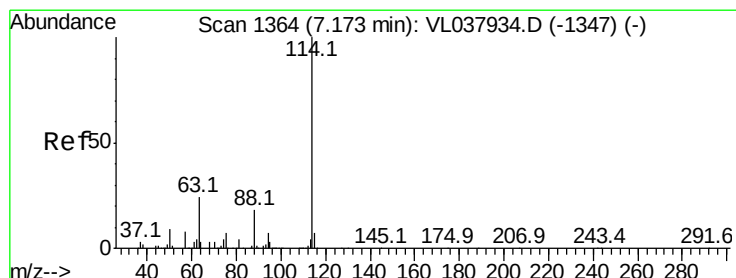
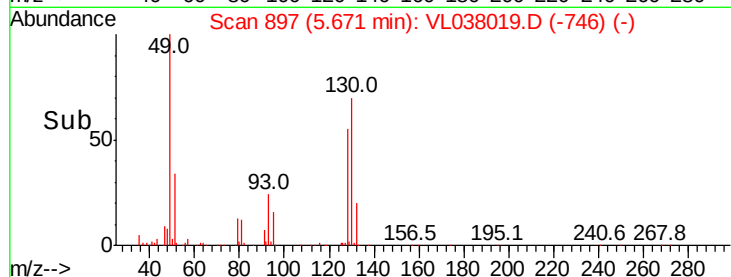
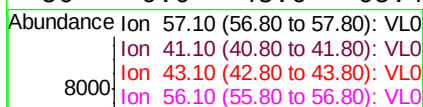
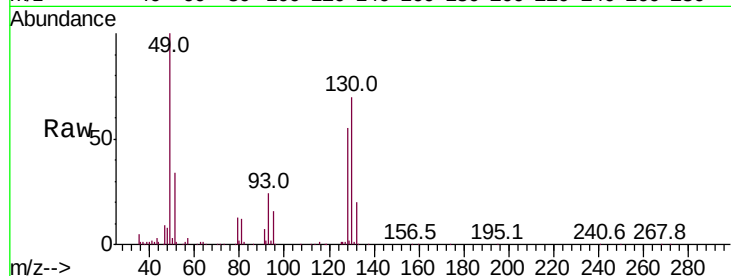
Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 11 Nov 2021 8:54

Tot Ion: 57 Resp: 5919

Ion	Ratio	Lower	Upper
57	100		
41	115.6	71.0	106.6#
43	220.0	173.0	259.6
56	0.0	43.6	65.4#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.15 min Scan# 1357

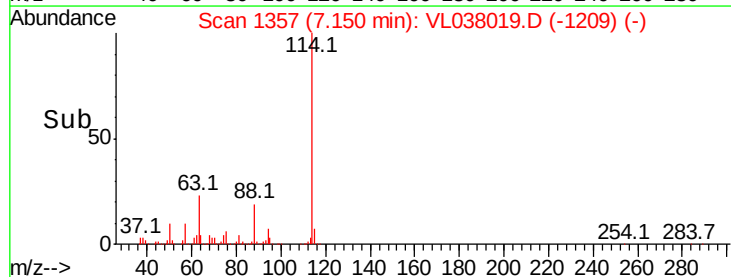
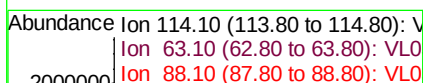
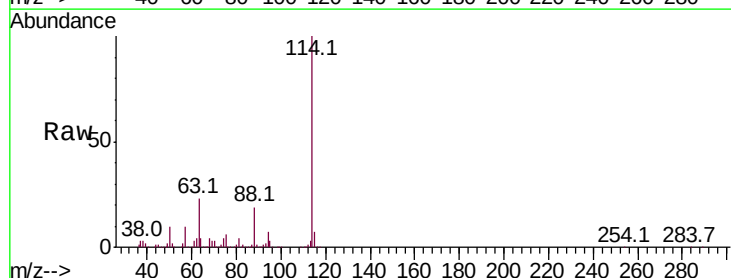
Delta R.T. -0.02 min

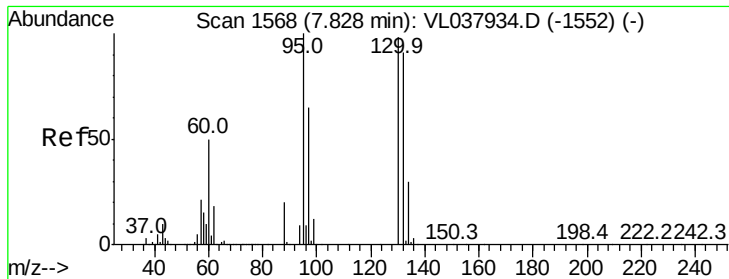
Lab File: VL038019.D

Acq: 11 Nov 2021 8:54

Tgt Ion: 114 Resp: 3774740

Ion	Ratio	Lower	Upper
114	100		
63	23.6	19.4	29.0
88	17.7	14.2	21.4





#38

Trichloroethene

Concen: 0.040 ppbv

RT: 7.80 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 11 Nov 2021 8:54

Tot Ion:130 Resp: 5063

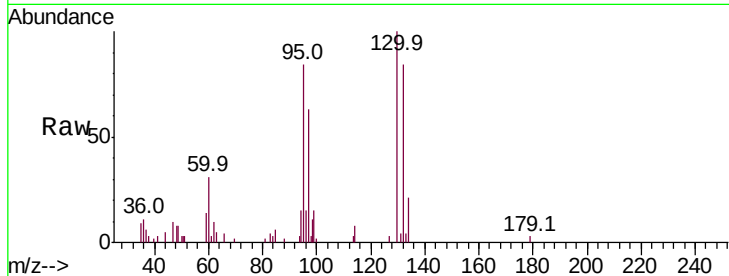
Ion Ratio Lower Upper

130 100

95 82.1 81.8 122.8

132 74.3 74.2 111.2

97 55.7 53.4 80.2

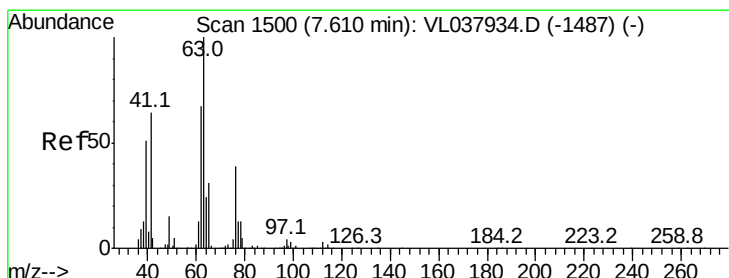
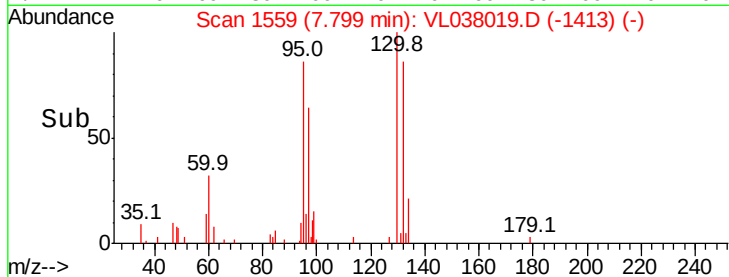
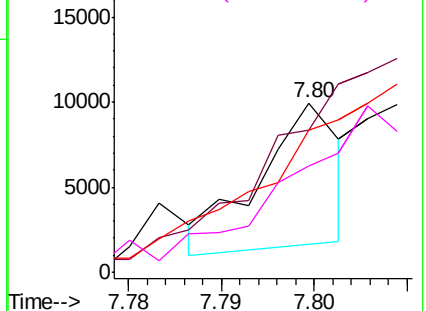


Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



#39

1,2-Dichloropropane

Concen: 7.542 ppbv

RT: 7.15 min Scan# 1356

Delta R.T. -0.46 min

Lab File: VL038019.D

Acq: 11 Nov 2021 8:54

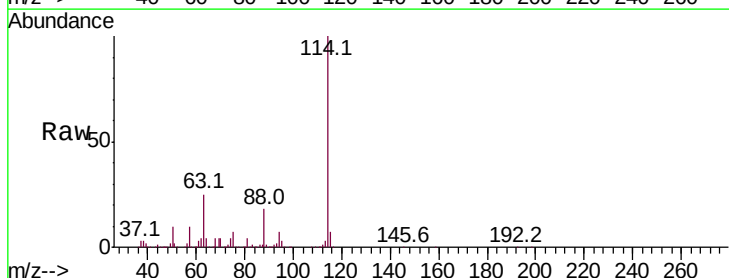
Tgt Ion: 63 Resp: 872340

Ion Ratio Lower Upper

63 100

41 0.1 51.6 77.4#

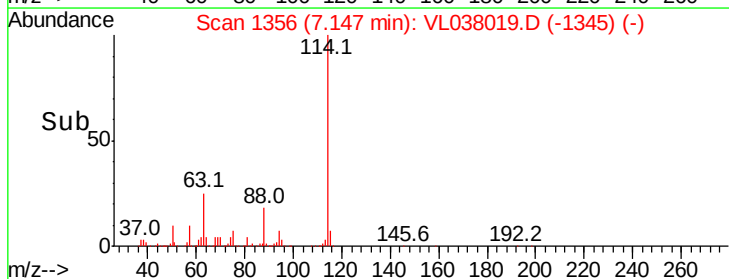
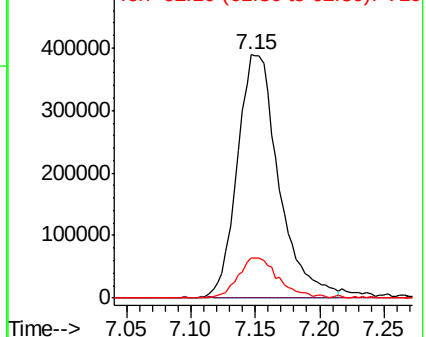
62 16.4 53.5 80.3#

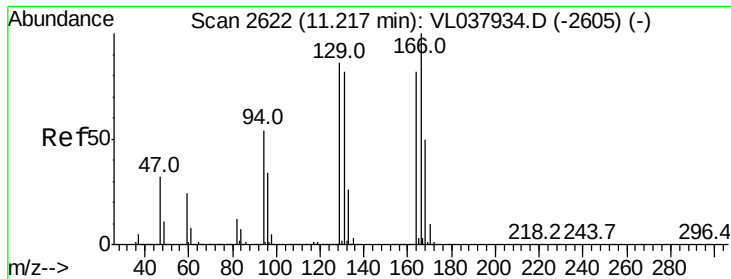


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#52

Tetrachloroethene

Concen: 0.949 ppbv

RT: 11.19

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 11 Nov 2021 8:54

Tot Ion:164 Resp: 110634

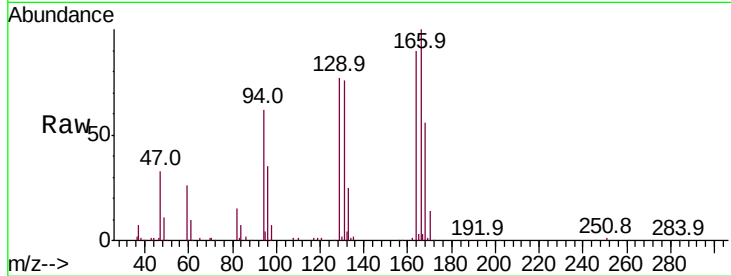
Ion Ratio Lower Upper

164 100

166 111.5 97.6 146.4

129 86.1 84.2 126.2

131 85.3 79.6 119.4

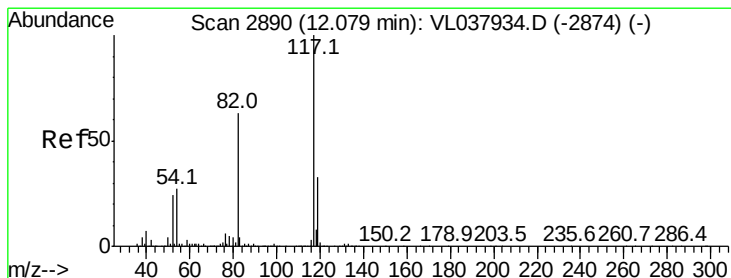
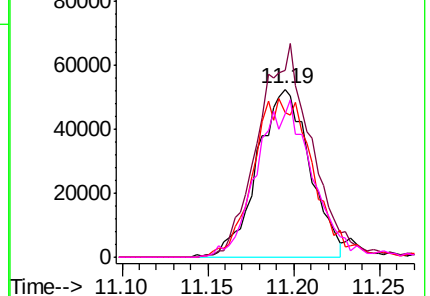
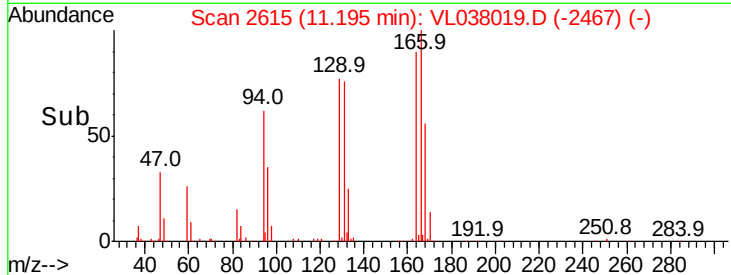


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.06 min Scan# 2883

Delta R.T. -0.02 min

Lab File: VL038019.D

Acq: 11 Nov 2021 8:54

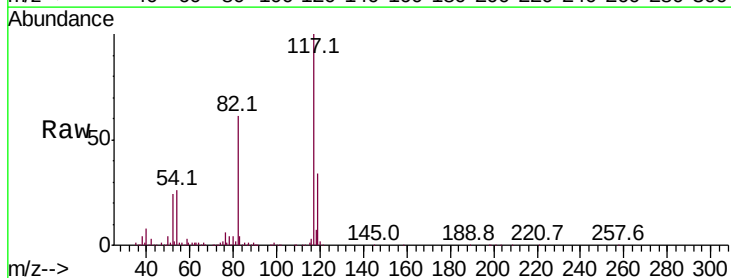
Tgt Ion:117 Resp: 3256962

Ion Ratio Lower Upper

117 100

82 64.8 51.0 76.6

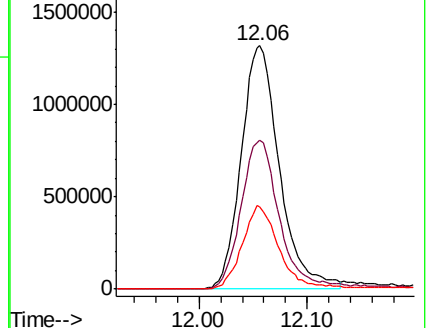
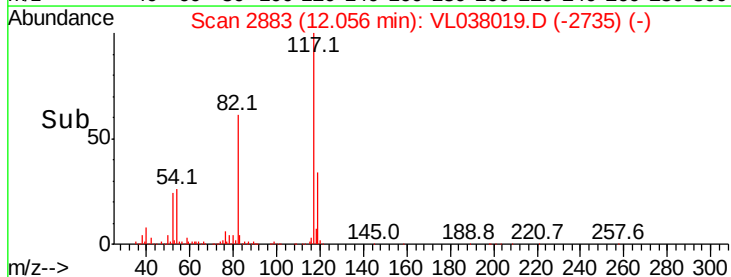
119 34.2 26.9 40.3

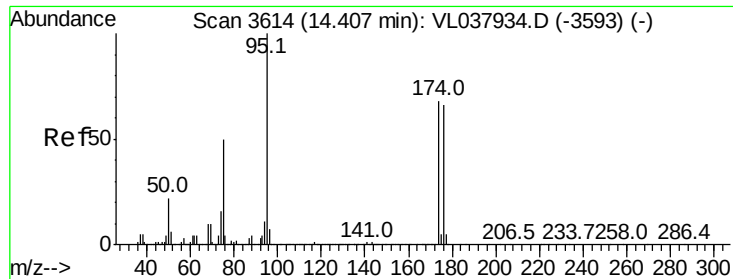


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 9.722 ppbv

RT: 14.38

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 11 Nov 2021 8:34

Tot Ion: 95 Resp: 2301674

Ion Ratio Lower Upper

95 100

174 75.4 58.3 87.5

175 5.6 4.6 6.8

