

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL101821\
 Data File : VL037861.D
 Acq On : 18 Oct 2021 20:38
 Operator : SY/AP
 Sample : M4068-13 0.03 LOD
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT4-2021

Quant Time: Oct 19 08:34:58 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	5.67	49	1196794	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3587095	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	3041054	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	2158619	10.15	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.50%

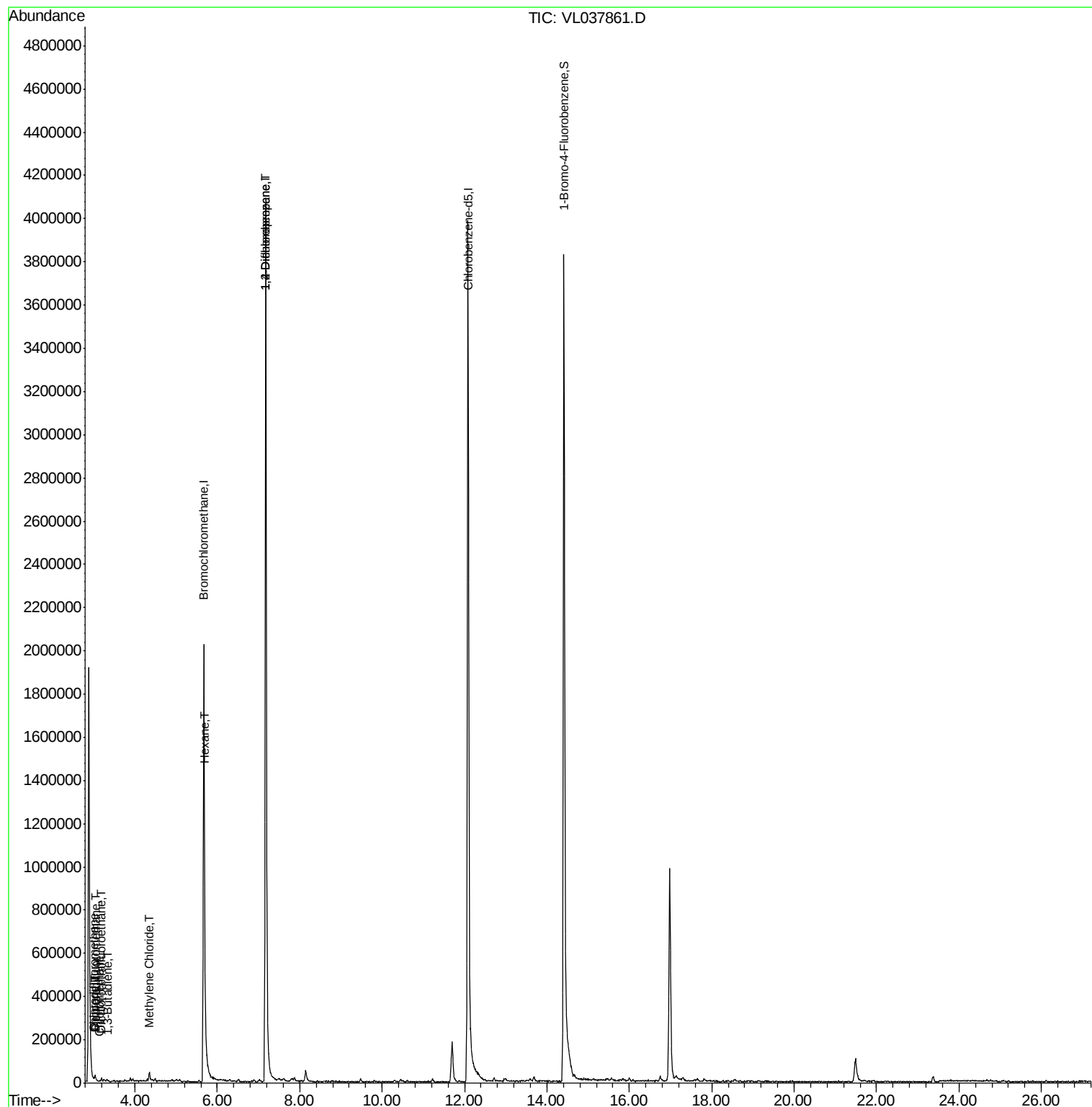
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.05	85	5260	0.028	ppbv	89
3) Chlorodifluoromethane	3.00	51	9750	0.042	ppbv #	86
4) Chloromethane	3.15	50	2096	0.025	ppbv #	74
8) Dichlorotetrafluoroethane	3.20	85	4509	0.024	ppbv #	40
9) Propene	3.02	41	5076	0.060	ppbv #	16
16) 1,3-Butadiene	3.33	39	1863	0.024	ppbv #	69
20) Methylene Chloride	4.34	84	2650	0.049	ppbv	91
26) Hexane	5.69	57	3432	0.023	ppbv #	1
39) 1,2-Dichloropropane	7.18	63	816020	7.081	ppbv #	28

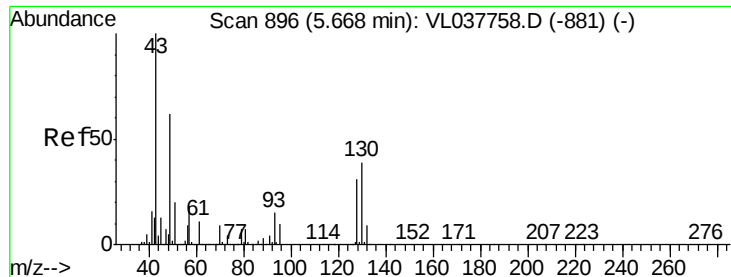
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL101821\
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 18 Oct 2021 20:38

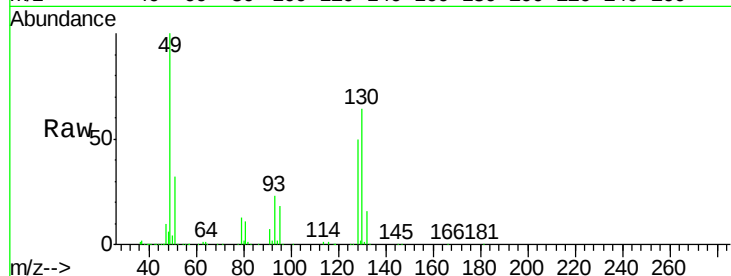
Tgt Ion: 49 Resp: 1196794

Ion Ratio Lower Upper

49 100

128 55.3 27.1 81.3

130 69.1 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

5.67

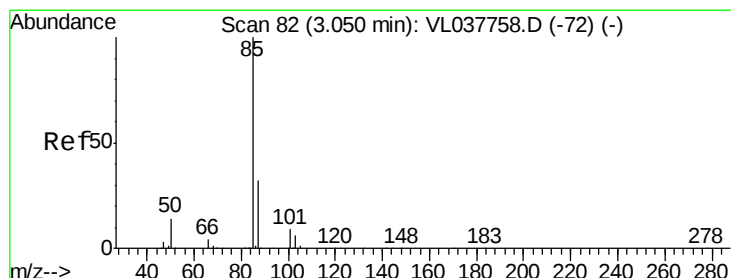
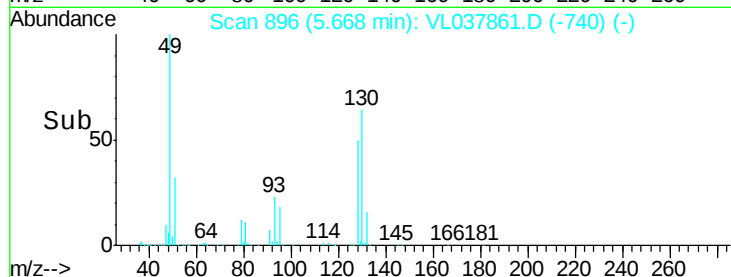
400000

200000

0

5.60 5.65 5.70 5.75

Time-->



#2

Dichlorodifluoromethane

Concen: 0.028 ppbv

RT: 3.05 min Scan# 82

Delta R.T. 0.00 min

Lab File: VL037861.D

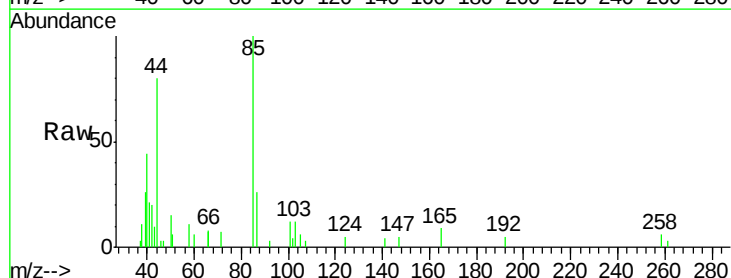
Acq: 18 Oct 2021 20:38

Tgt Ion: 85 Resp: 5260

Ion Ratio Lower Upper

85 100

87 25.7 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.05

6000

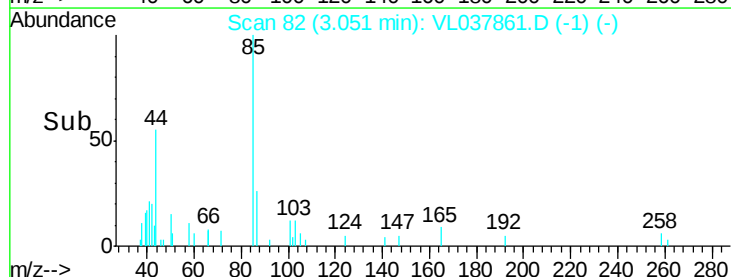
4000

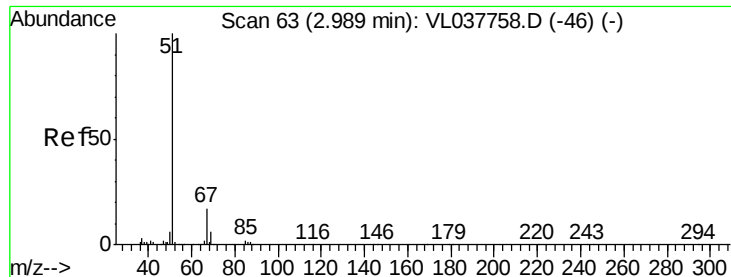
2000

0

3.02 3.04 3.06

Time-->





#3

Chlorodifluoromethane

Concen: 0.042 ppbv

RT: 3.00 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

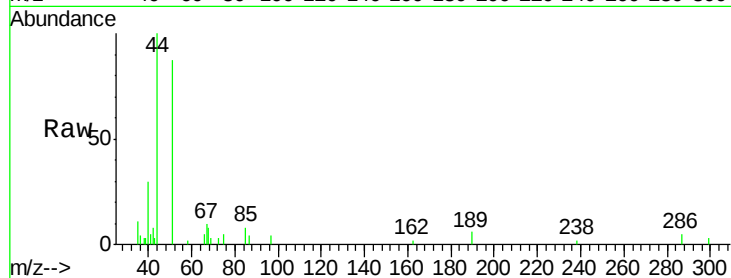
Acq: 18 Oct 2021 20:38 LOD-MDL-AIR-01-QT4-2021

Tgt Ion: 51 Resp: 9750

Ion Ratio Lower Upper

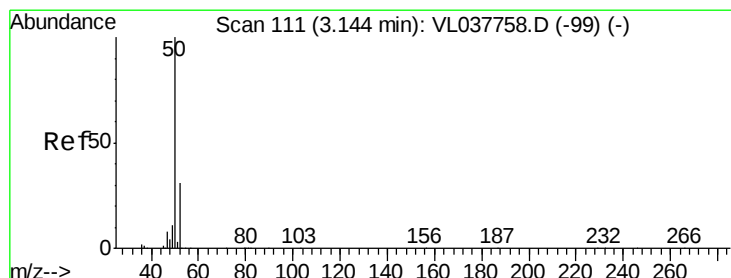
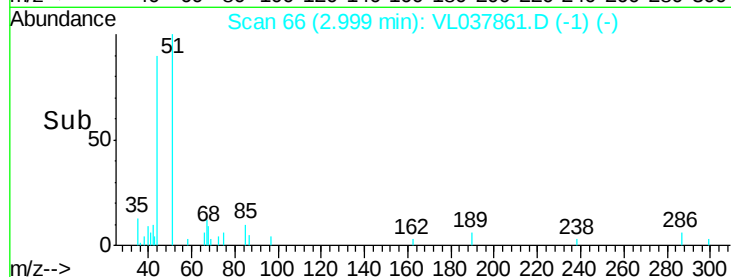
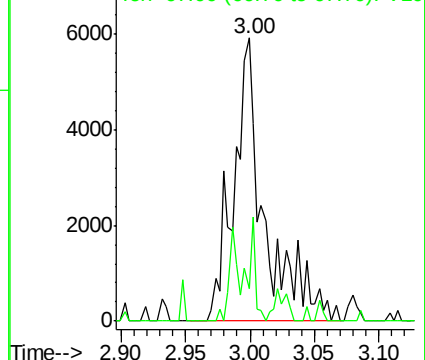
51 100

67 23.0 13.5 20.3#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.025 ppbv

RT: 3.15 min Scan# 112

Delta R.T. 0.00 min

Lab File: VL037861.D

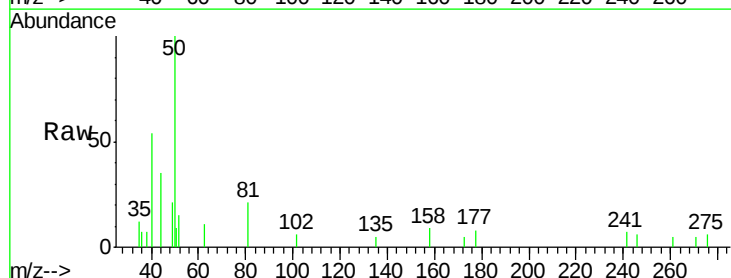
Acq: 18 Oct 2021 20:38

Tgt Ion: 50 Resp: 2096

Ion Ratio Lower Upper

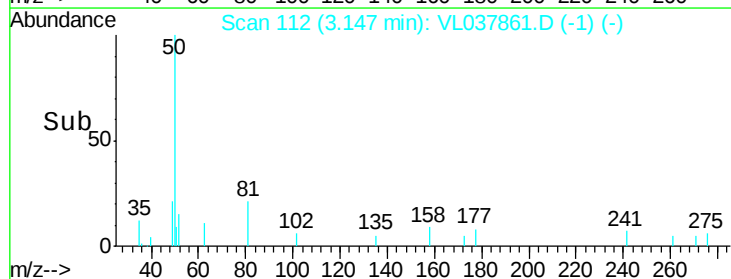
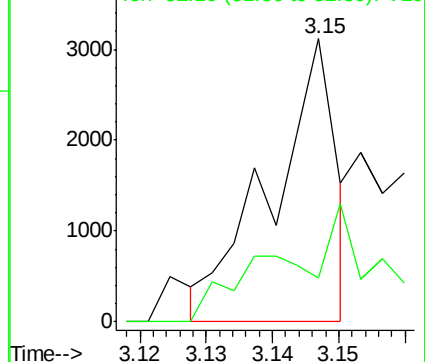
50 100

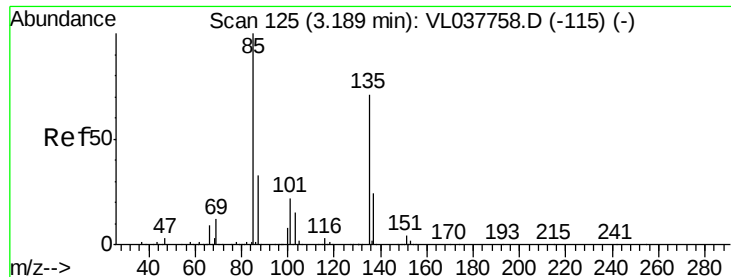
52 16.0 24.4 36.6#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#8

Dichlorotetrafluoroethane

Concen: 0.024 ppbv

RT: 3.20 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

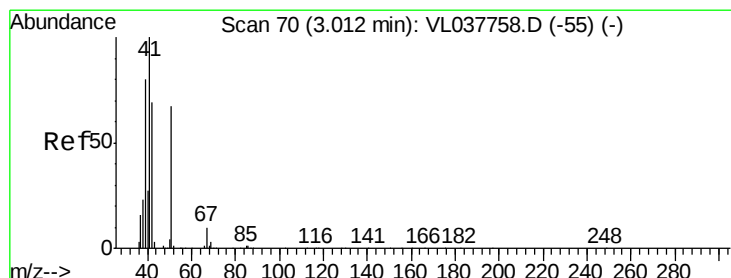
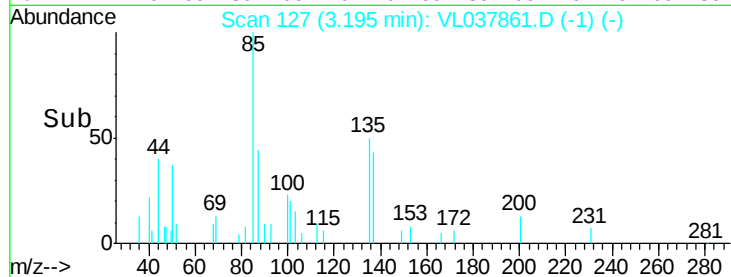
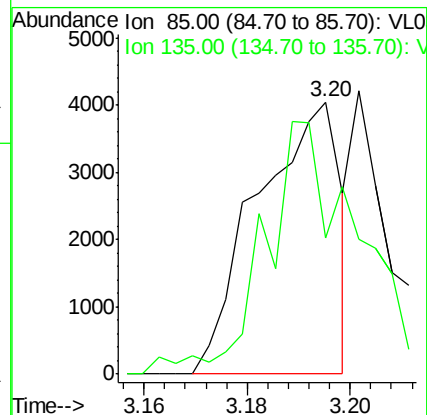
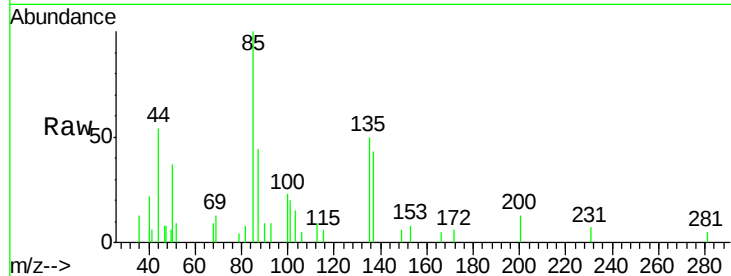
Acq: 18 Oct 2021 20:35 LOD-MDL-AIR-01-QT4-2021

Tgt Ion: 85 Resp: 4509

Ion Ratio Lower Upper

85 100

135 125.5 59.5 89.3#



#9

Propene

Concen: 0.060 ppbv

RT: 3.02 min Scan# 72

Delta R.T. 0.01 min

Lab File: VL037861.D

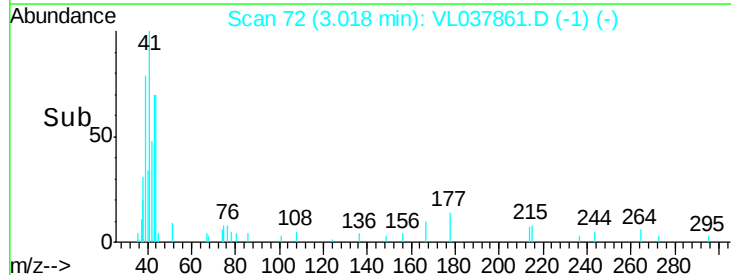
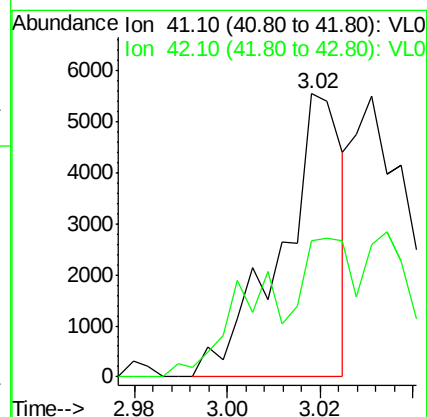
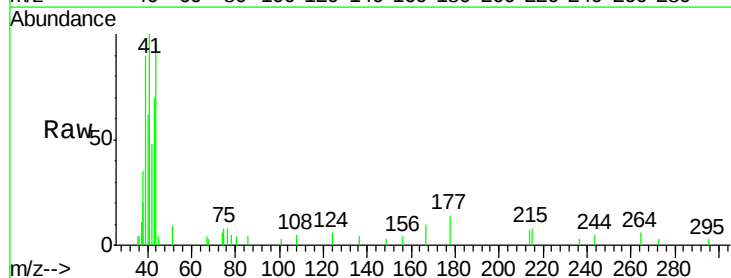
Acq: 18 Oct 2021 20:38

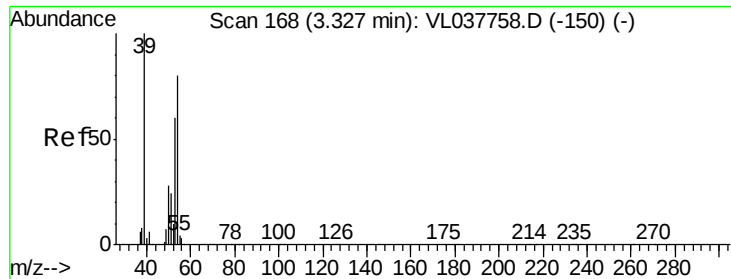
Tgt Ion: 41 Resp: 5076

Ion Ratio Lower Upper

41 100

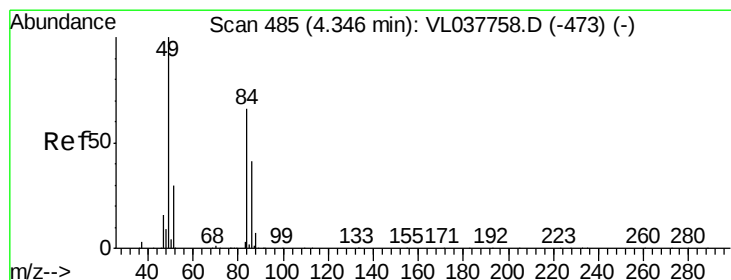
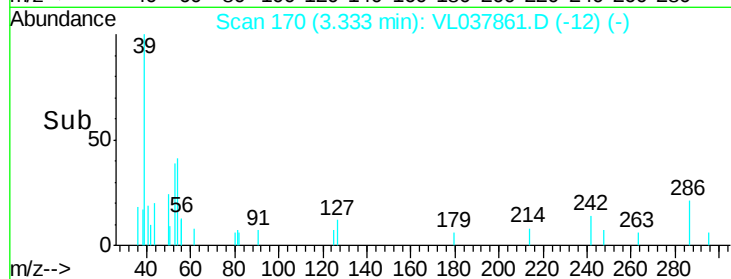
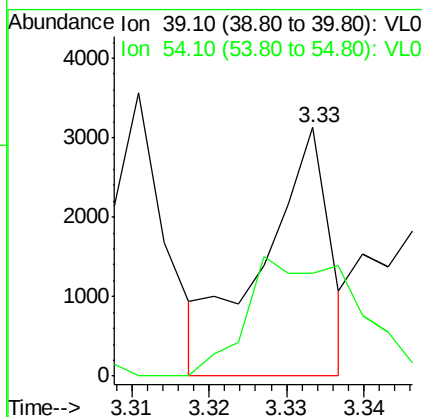
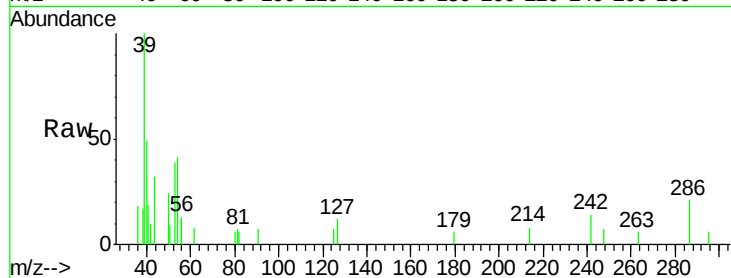
42 0.0 54.2 81.2#





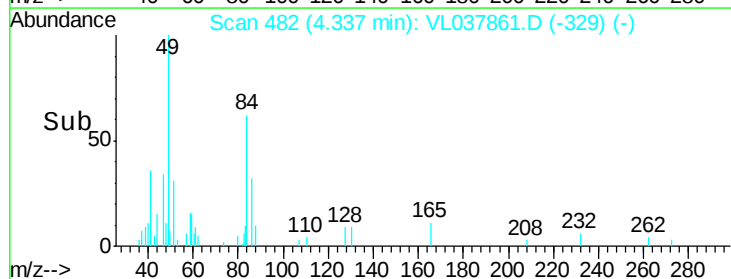
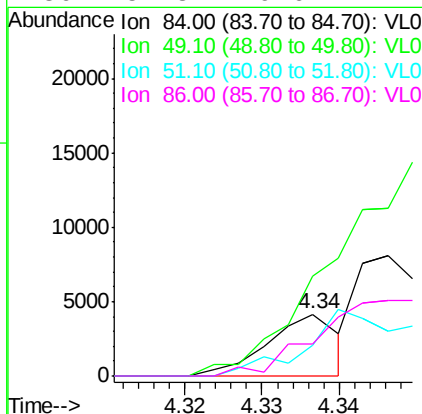
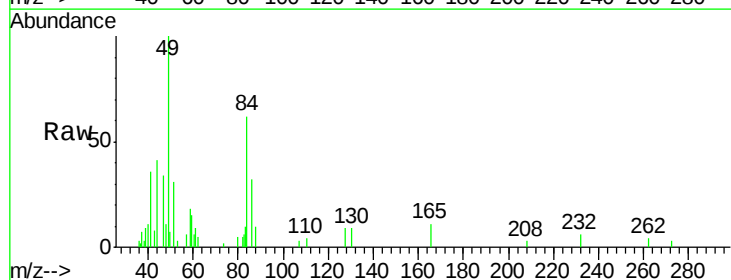
#16
 1,3-Butadiene
 Concen: 0.024 ppbv
 RT: 3.33 Instrument : MSVOA_1
 Delta R.T. :
 Lab File: ClientSampleId :
 Acq: 18 Oct 2021 20:38 LOD-MDL-AIR-01-QT4-2021

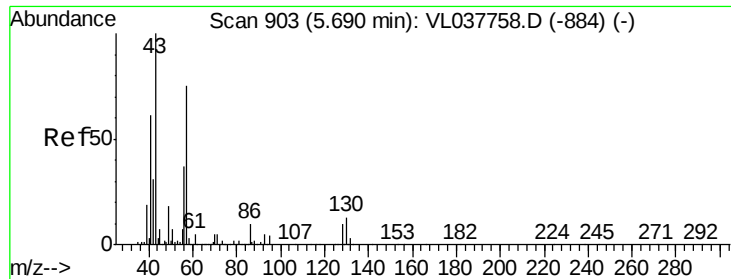
Tgt Ion: 39 Resp: 1863
 Ion Ratio Lower Upper
 39 100
 54 103.7 61.7 92.5#



#20
 Methylene Chloride
 Concen: 0.049 ppbv
 RT: 4.34 min Scan# 482
 Delta R.T. -0.01 min
 Lab File: VL037861.D
 Acq: 18 Oct 2021 20:38

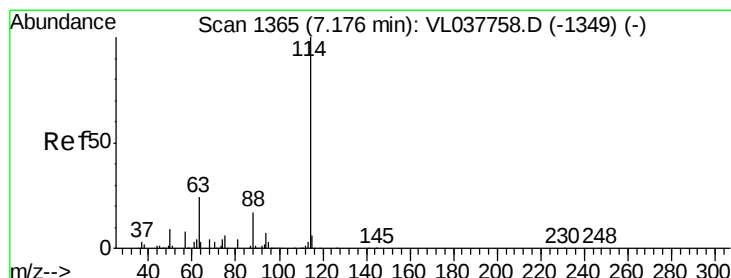
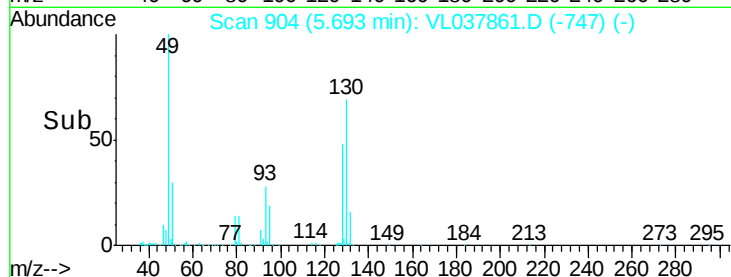
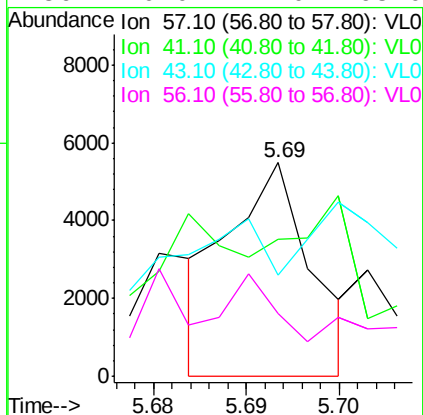
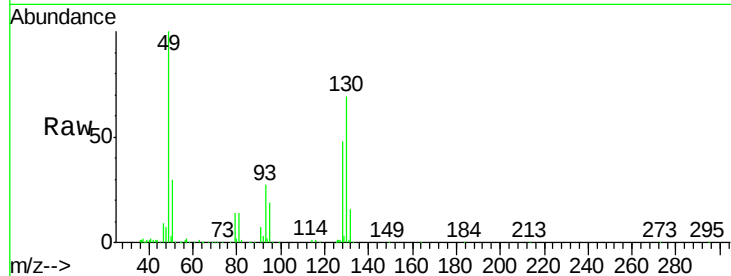
Tgt Ion: 84 Resp: 2650
 Ion Ratio Lower Upper
 84 100
 49 162.0 120.7 181.1
 51 50.3 36.2 54.4
 86 52.3 49.6 74.4





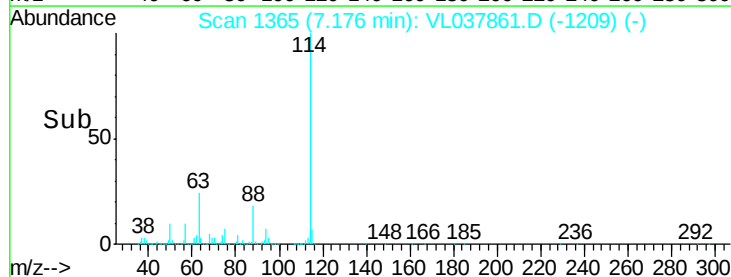
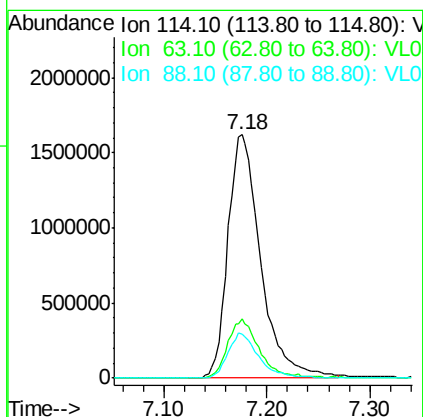
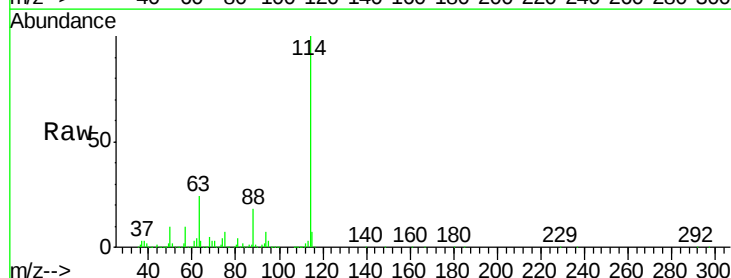
#26
Hexane
Concen: 0.023 ppbv
RT: 5.69
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 18 Oct 2021 20:38
LOD-MDL-AIR-01-QT4-2021

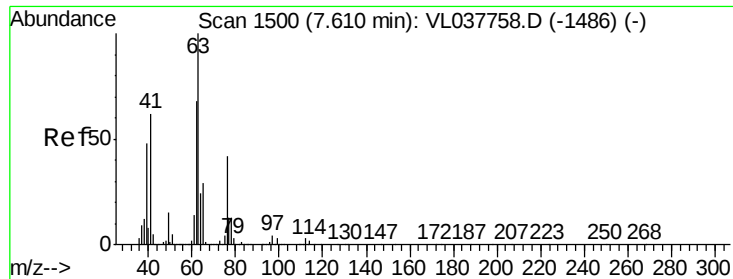
Tgt Ion:	57	Resp:	3432
Ion	Ratio	Lower	Upper
57	100		
41	0.0	69.6	104.4#
43	0.0	171.4	257.0#
56	0.0	42.0	63.0#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1365
Delta R.T. 0.00 min
Lab File: VL037861.D
Acq: 18 Oct 2021 20:38

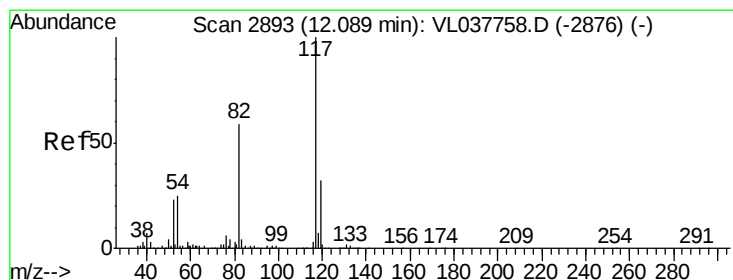
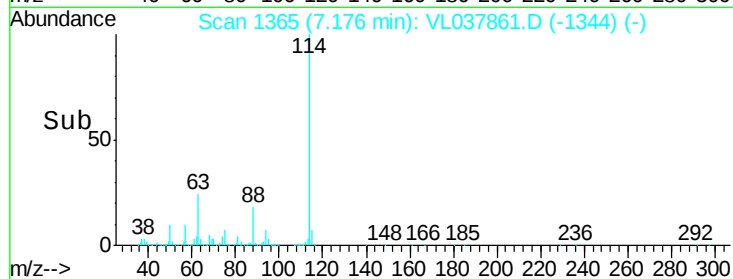
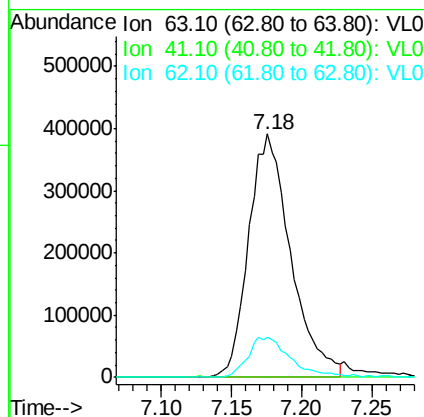
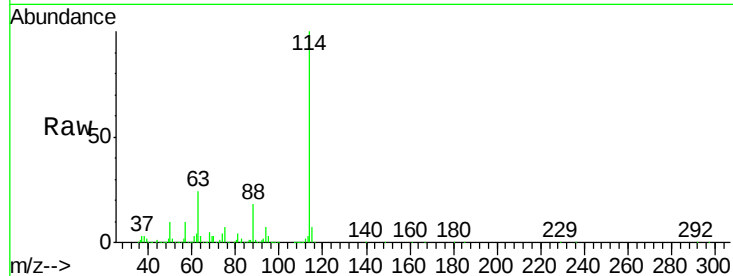
Tgt Ion:	114	Resp:	3587095
Ion	Ratio	Lower	Upper
114	100		
63	23.7	19.4	29.2
88	17.7	14.4	21.6





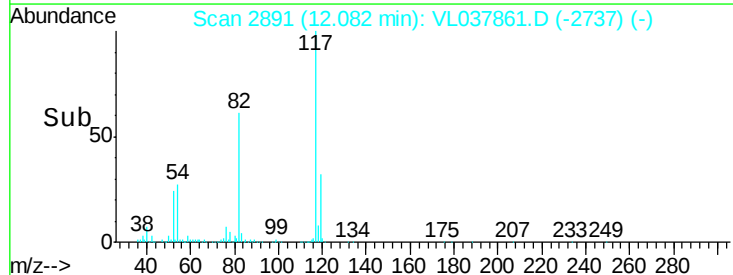
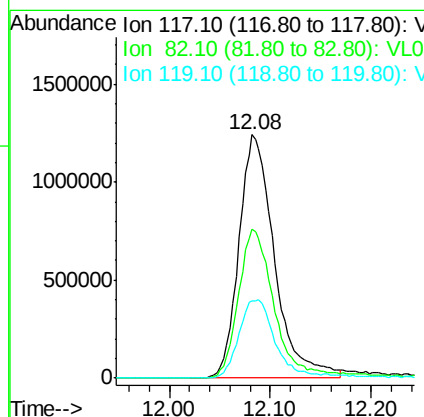
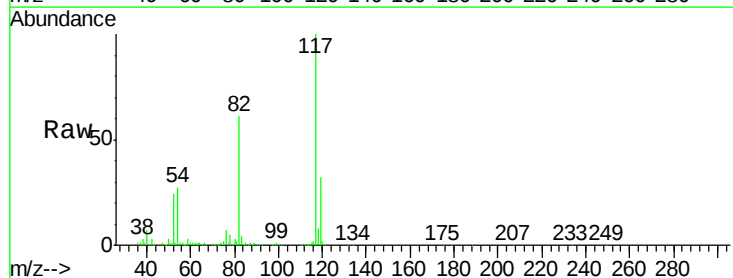
#39
 1,2-Dichloropropane
 Concen: 7.081 ppbv
 RT: 7.18
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId:
 LOD-MDL-AIR-01-QT4-2021
 Acq: 18 Oct 2021 20:38

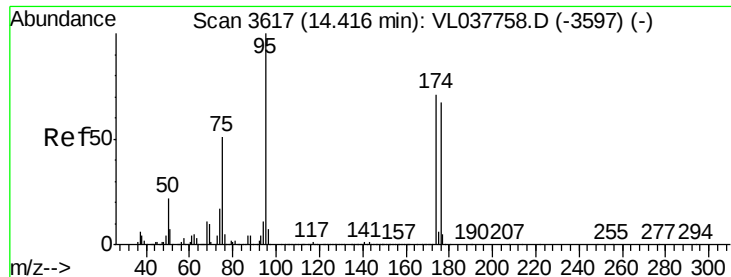
Tgt Ion	Ratio	Lower	Upper
63	100		
41	0.3	49.8	74.6#
62	16.5	54.6	82.0#



#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.08 min Scan# 2891
 Delta R.T. -0.01 min
 Lab File: VL037861.D
 Acq: 18 Oct 2021 20:38

Tgt Ion	Ratio	Lower	Upper
117	100		
82	63.5	52.2	78.2
119	34.1	26.0	39.0





#68

1-Bromo-4-Fluorobenzene

Concen: 10.150 ppbv

RT: 14.41

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 18 Oct 2021 20:36

Tgt Ion: 95 Resp: 2158619

Ion Ratio Lower Upper

95 100

174 73.3 57.8 86.6

175 5.1 4.7 7.1

