

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL102721\
 Data File : VL037924.D
 Acq On : 27 Oct 2021 20:15
 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 28 05:19:11 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	5.68	49	1292926	10.00	ppbv	0.01
33) 1,4-Difluorobenzene	7.19	114	3848111	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	3179937	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	2207383	9.93	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.30%

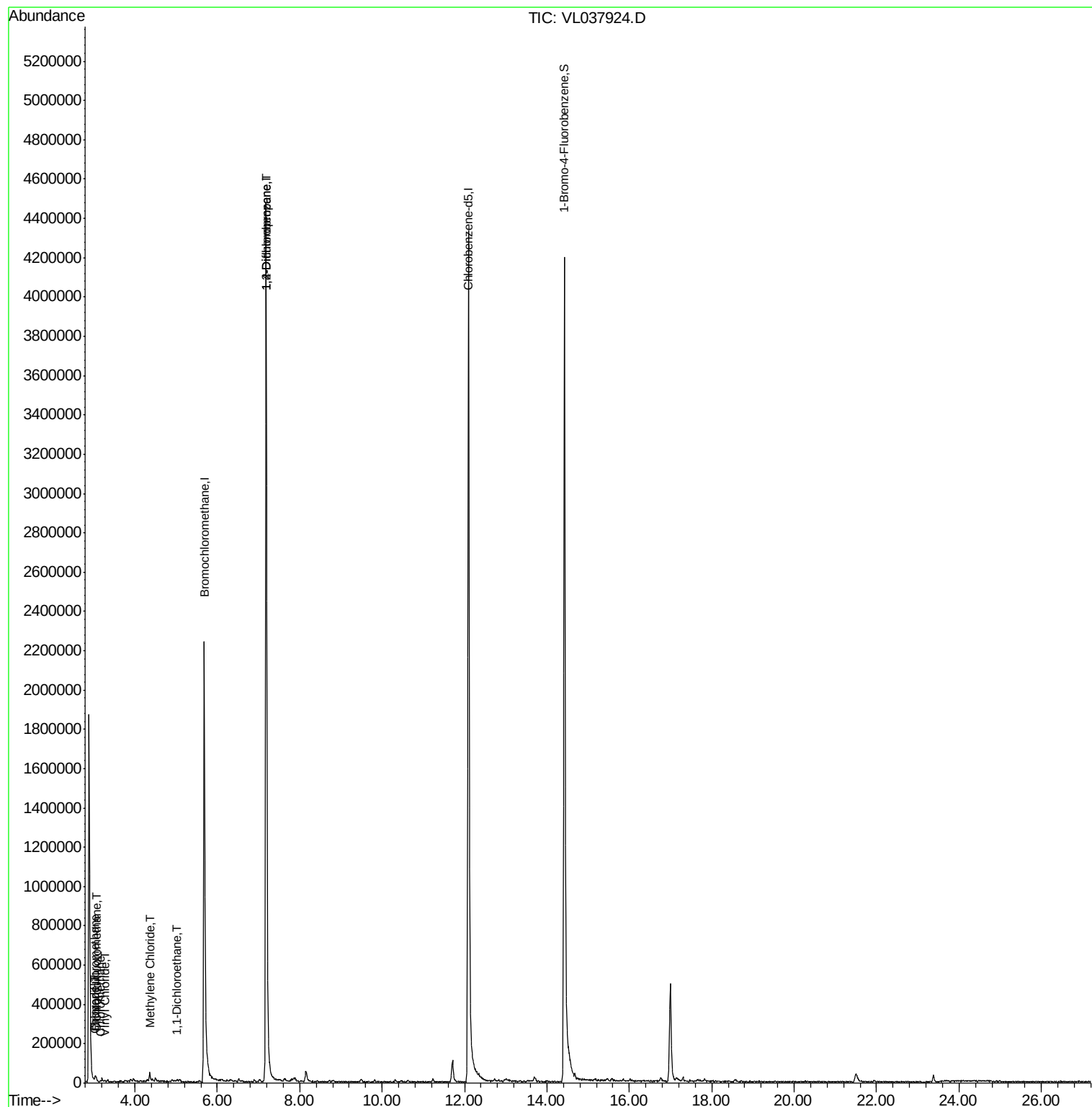
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	12036	0.058	ppbv	92
3) Chlorodifluoromethane	3.01	51	11207	0.045	ppbv	98
4) Chloromethane	3.15	50	3401	0.037	ppbv	97
5) Vinyl Chloride	3.27	62	3067	0.037	ppbv #	69
9) Propene	3.03	41	9287	0.102	ppbv #	68
20) Methylene Chloride	4.36	84	10671	0.182	ppbv	84
24) 1,1-Dichloroethane	5.02	63	4074	0.032	ppbv #	87
39) 1,2-Dichloropropane	7.19	63	913120	7.386	ppbv #	26

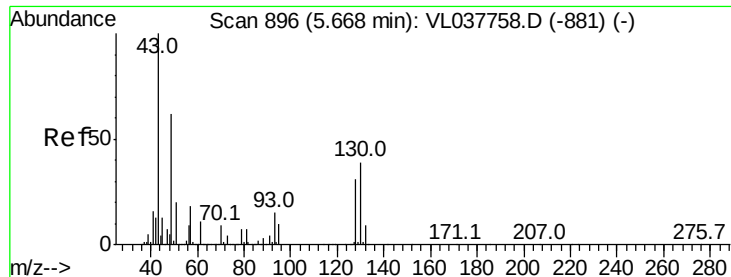
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL102721\
Data File : VL037924.D
Acq On : 27 Oct 2021 20:15
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 28 05:19:11 2021
Quant Method : Z:\V0ASRV\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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 27 Oct 2021 20:15

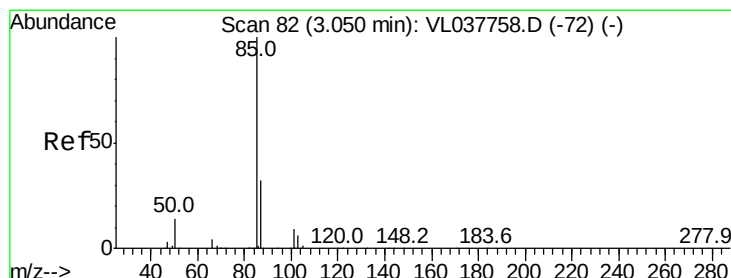
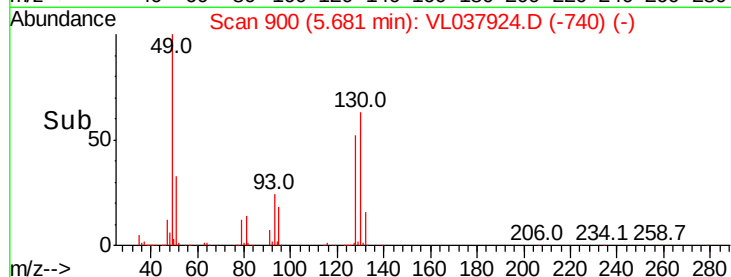
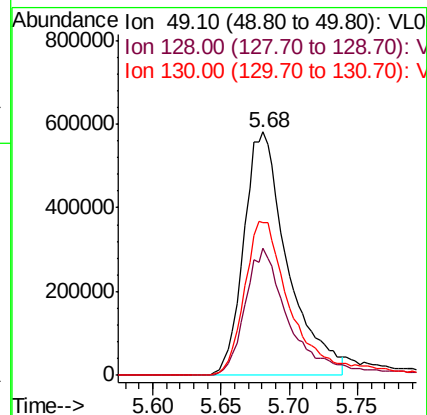
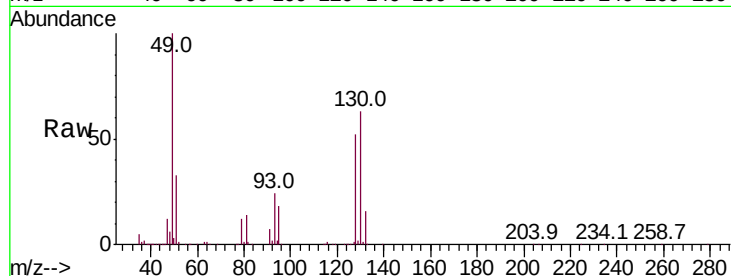
Tot Ion: 49 Resp: 1292926

Ion Ratio Lower Upper

49 100

128 54.6 27.1 81.3

130 69.3 33.2 99.6



#2

Dichlorodifluoromethane

Concen: 0.058 ppbv

RT: 3.06 min Scan# 85

Delta R.T. 0.01 min

Lab File: VL037924.D

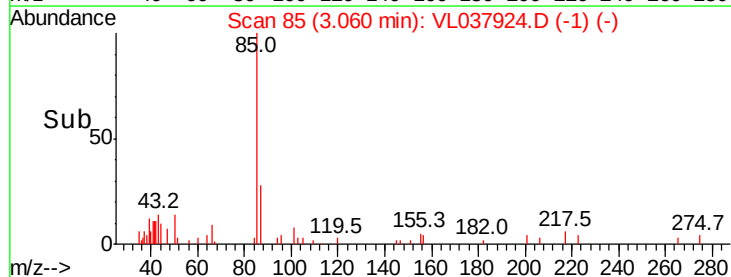
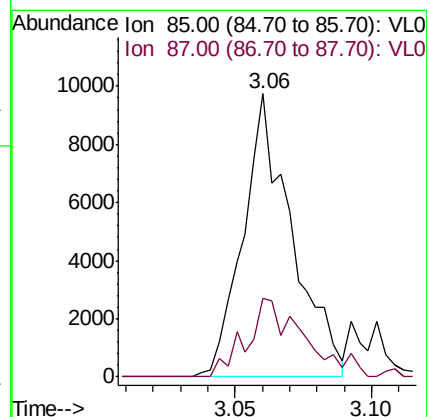
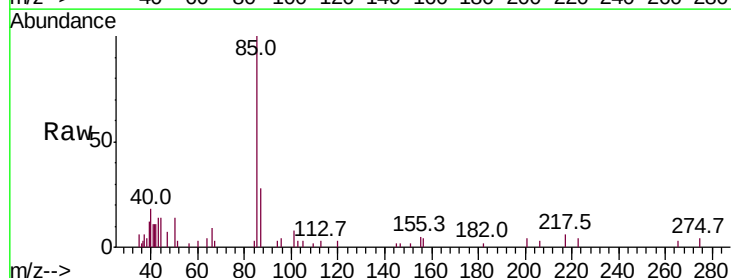
Acq: 27 Oct 2021 20:15

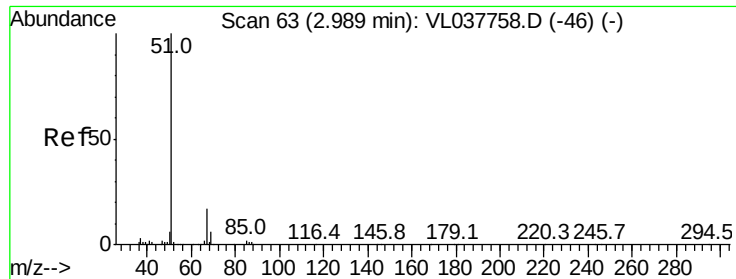
Tgt Ion: 85 Resp: 12036

Ion Ratio Lower Upper

85 100

87 27.7 25.7 38.5





#3

Chlorodifluoromethane

Concen: 0.045 ppbv

RT: 3.01 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

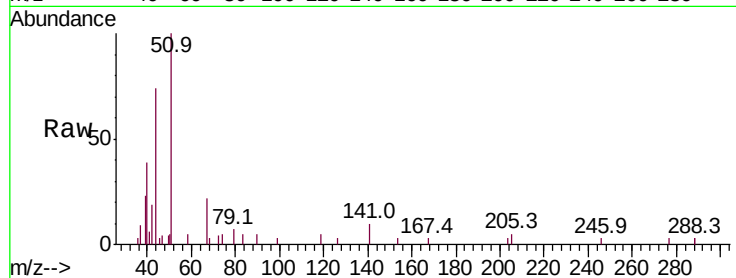
Acq: 27 Oct 2021 20:15 LOD-MDL-AIR-01-QT4-2021

Tot Ion: 51 Resp: 11207

Ion Ratio Lower Upper

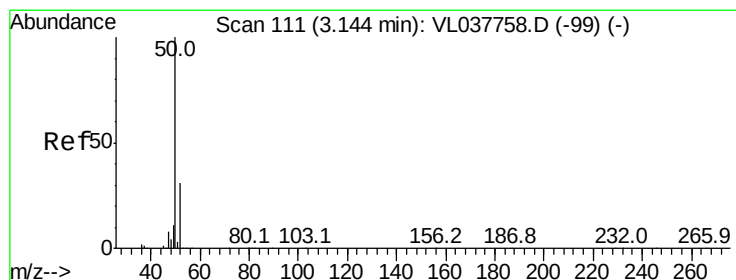
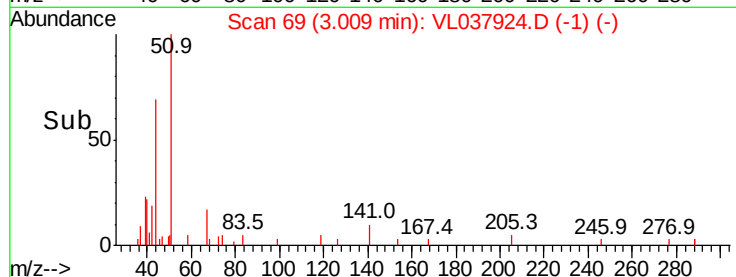
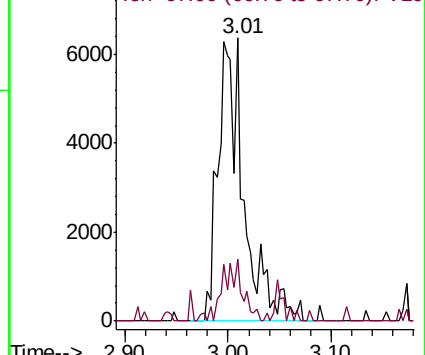
51 100

67 16.2 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: 0.037 ppbv

RT: 3.15 min Scan# 113

Delta R.T. 0.01 min

Lab File: VL037924.D

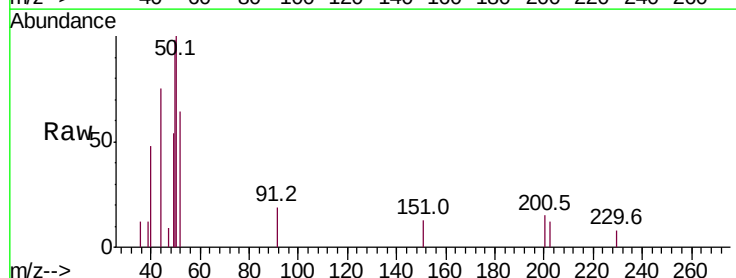
Acq: 27 Oct 2021 20:15

Tgt Ion: 50 Resp: 3401

Ion Ratio Lower Upper

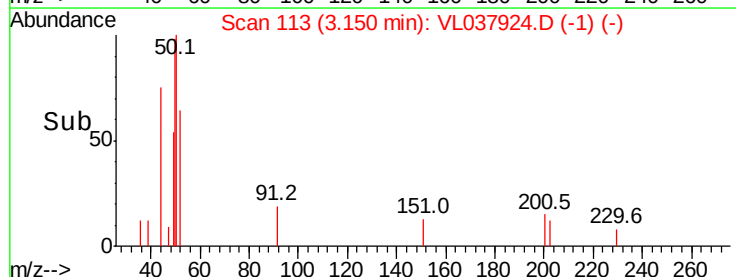
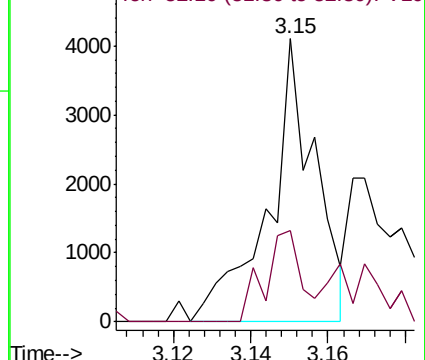
50 100

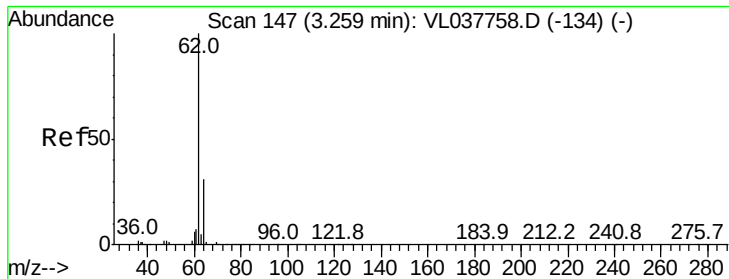
52 32.2 24.4 36.6



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.037 ppbv

RT: 3.27 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

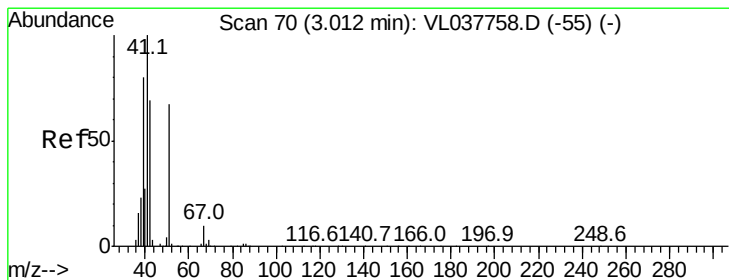
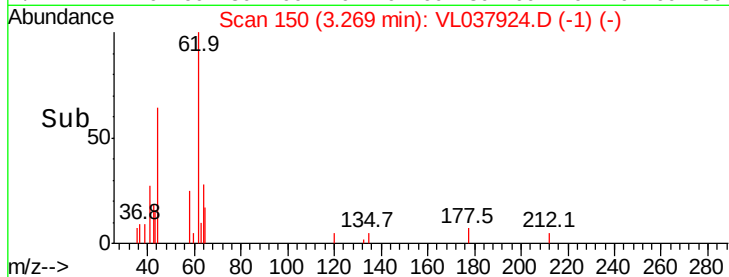
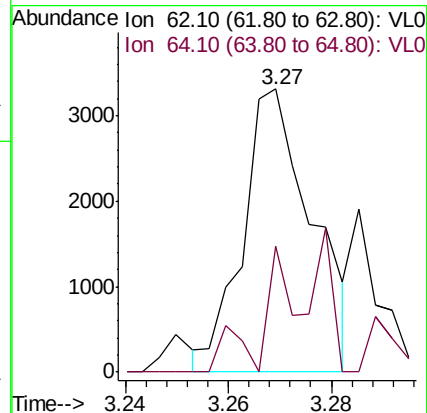
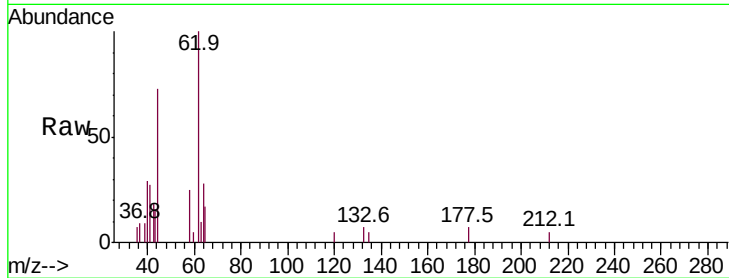
Acq: 27 Oct 2021 20:15 LOD-MDL-AIR-01-QT4-2021

Tot Ion: 62 Resp: 3067

Ion Ratio Lower Upper

62 100

64 48.1 24.9 37.3#



#9

Propene

Concen: 0.102 ppbv

RT: 3.03 min Scan# 77

Delta R.T. 0.02 min

Lab File: VL037924.D

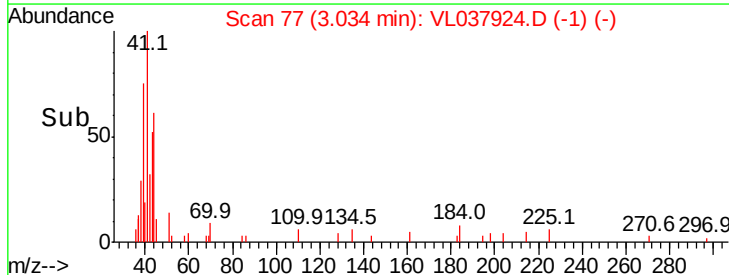
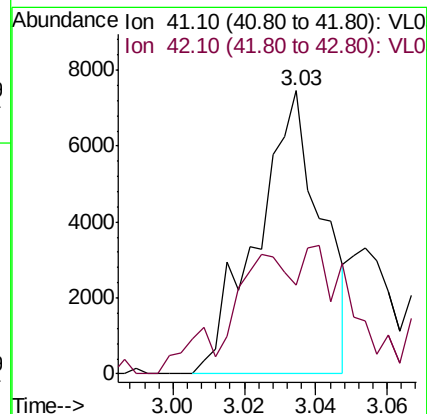
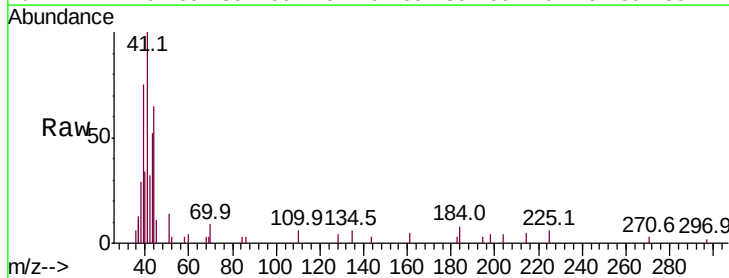
Acq: 27 Oct 2021 20:15

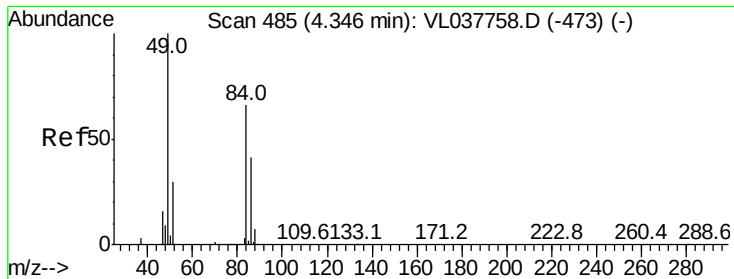
Tgt Ion: 41 Resp: 9287

Ion Ratio Lower Upper

41 100

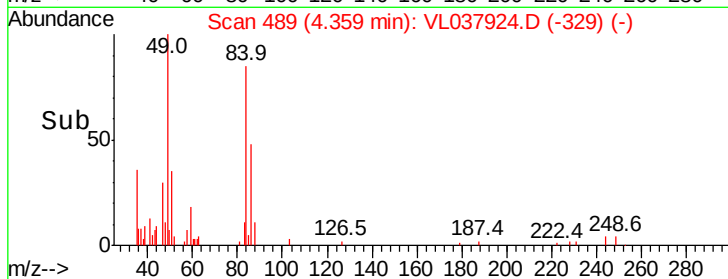
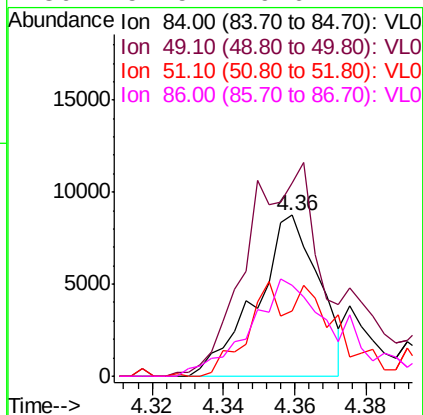
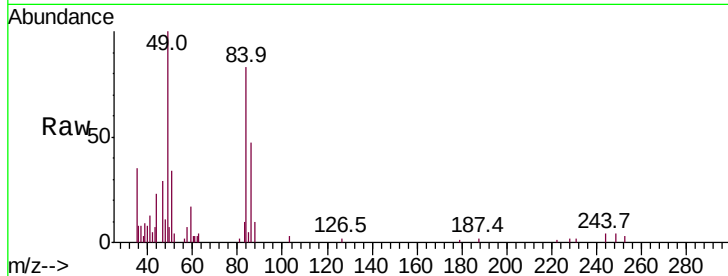
42 93.2 54.2 81.2#





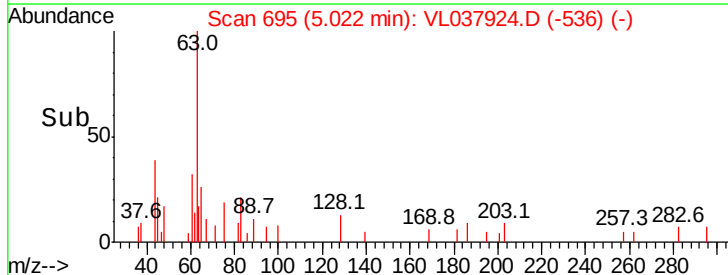
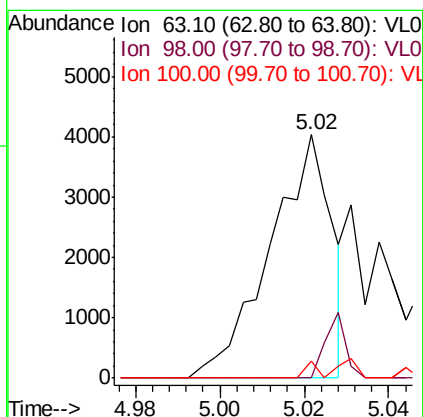
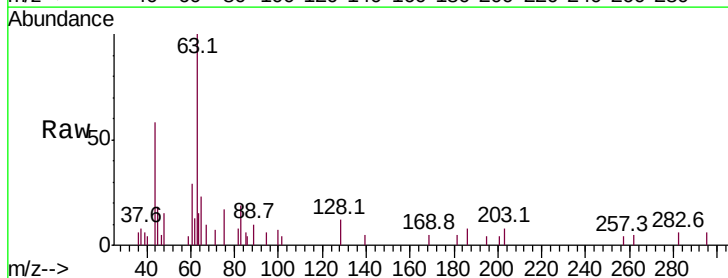
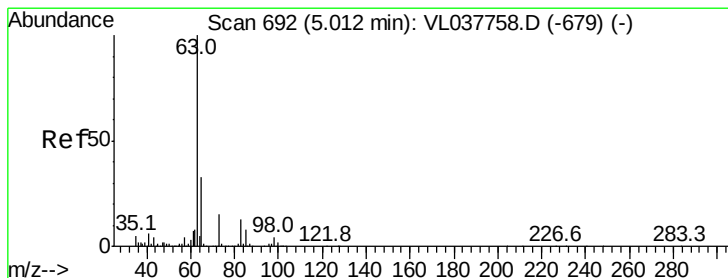
#20
Methylene Chloride
Concen: 0.182 ppbv
RT: 4.36
Delta R.T. MSVOA_1
Lab File: ClientSampleId :
Acq: 27 Oct 2021 20:15
LOD-MDL-AIR-01-QT4-2021

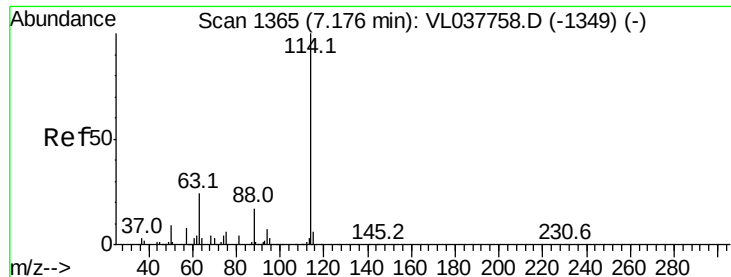
Tot Ion:	84	Resp:	10671
Ion	Ratio	Lower	Upper
84	100		
49	126.3	120.7	181.1
51	40.6	36.2	54.4
86	51.5	49.6	74.4



#24
1,1-Dichloroethane
Concen: 0.032 ppbv
RT: 5.02 min Scan# 695
Delta R.T. 0.01 min
Lab File: VL037924.D
Acq: 27 Oct 2021 20:15

Tgt Ion:	63	Resp:	4074
Ion	Ratio	Lower	Upper
63	100		
98	0.0	2.3	6.9#
100	5.9	1.1	3.1#

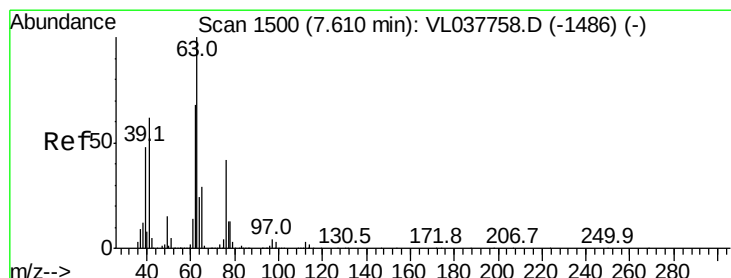
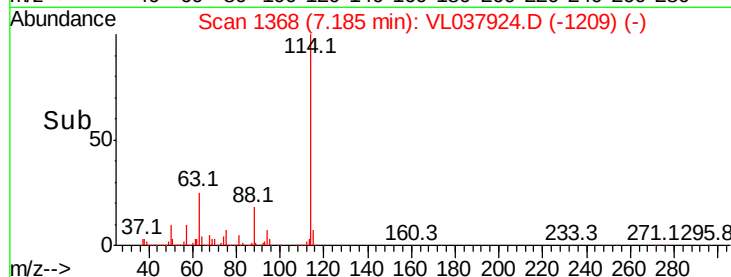
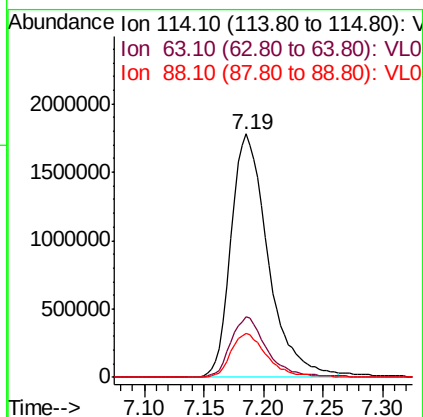
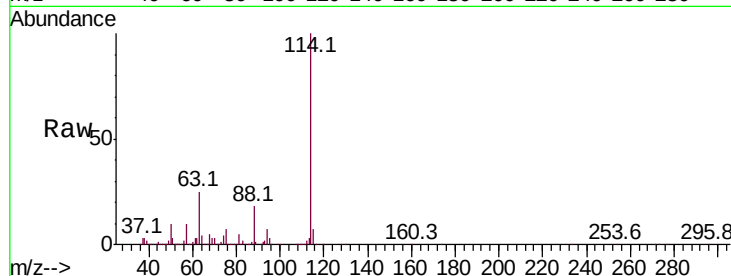




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 LOD-MDL-AIR-01-QT4-2021
 Acq: 27 Oct 2021 20:15

Tot Ion: 114 Resp: 3848111

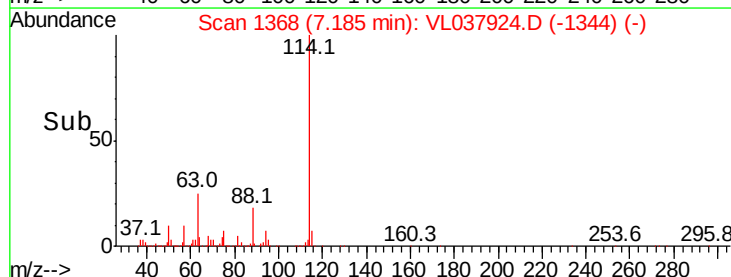
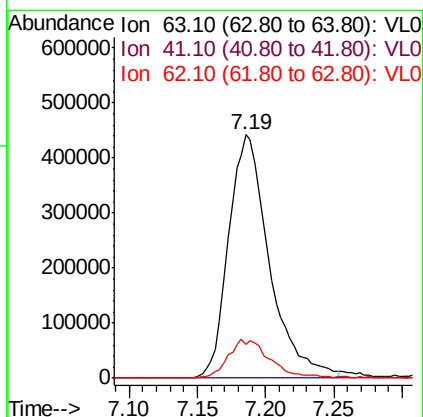
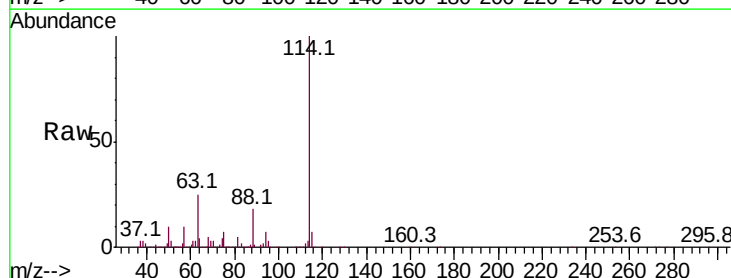
Ion	Ratio	Lower	Upper
114	100		
63	24.3	19.4	29.2
88	18.0	14.4	21.6

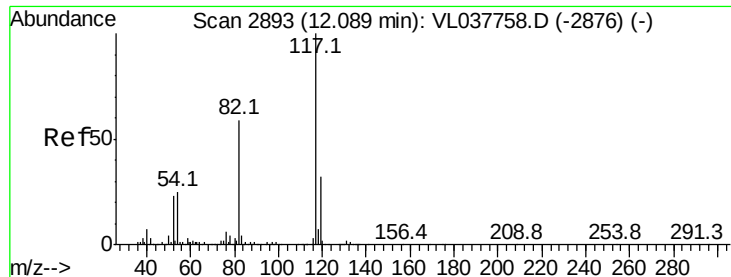


#39
 1,2-Dichloropropane
 Concen: 7.386 ppbv
 RT: 7.19 min Scan# 1368
 Delta R.T.: -0.42 min
 Lab File: VL037924.D
 Acq: 27 Oct 2021 20:15

Tgt Ion: 63 Resp: 913120

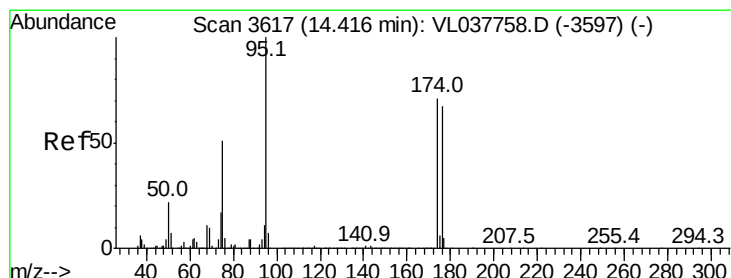
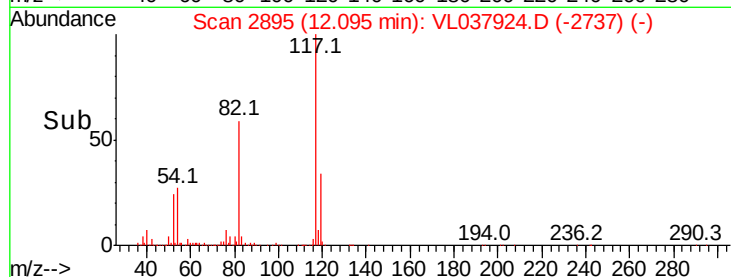
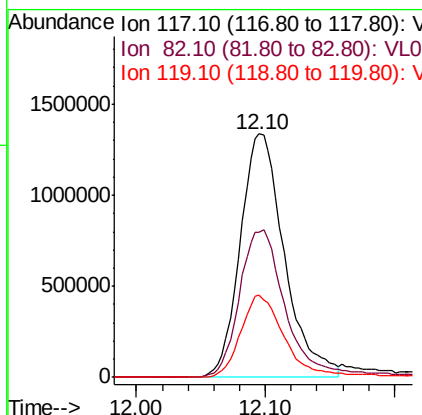
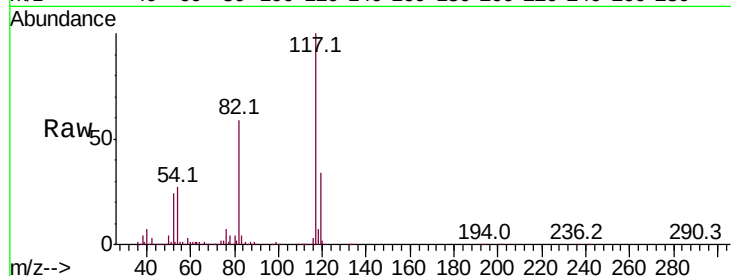
Ion	Ratio	Lower	Upper
63	100		
41	0.3	49.8	74.6#
62	13.5	54.6	82.0#





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 27 Oct 2021 20:15
LOD-MDL-AIR-01-QT4-2021

Tot Ion: 117 Resp: 3179937
Ion Ratio Lower Upper
117 100
82 65.8 52.2 78.2
119 35.2 26.0 39.0



#68
1-Bromo-4-Fluorobenzene
Concen: 9.926 ppbv
RT: 14.42 min Scan# 3619
Delta R.T.: 0.01 min
Lab File: VL037924.D
Acq: 27 Oct 2021 20:15

Tgt Ion: 95 Resp: 2207383
Ion Ratio Lower Upper
95 100
174 76.8 57.8 86.6
175 5.5 4.7 7.1

