

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032222\
 Data File : VL038709.D
 Acq On : 23 Mar 2022 8:35
 Operator : SY/AP
 Sample : VIBLK
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VIBLK

Quant Time: Mar 24 02:52:57 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032122AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 21 17:09:26 2022
 QLast Update : Mon Mar 21 17:09:26 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	709679	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.15	114	1917244	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.06	117	1608879	10.00	ppbv	-0.02

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.38	95	1186389	9.62	ppbv	-0.02	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.20%	

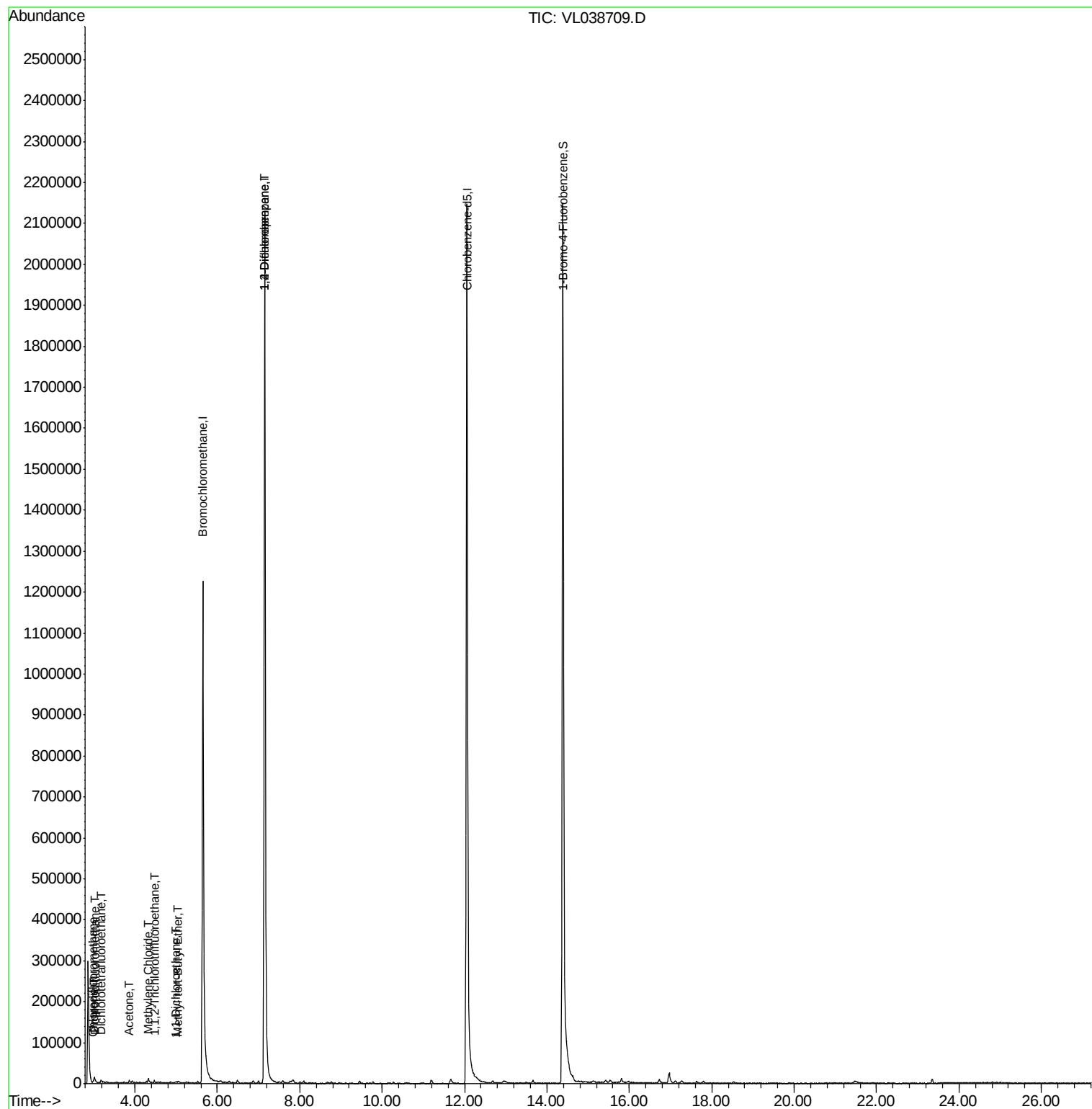
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	3296	0.035	ppbv	99
3) Chlorodifluoromethane	2.98	51	3562	0.048	ppbv	99
8) Dichlorotetrafluoroethane	3.18	85	3368	0.035	ppbv #	83
9) Propene	3.00	41	1993	0.055	ppbv #	1
12) 1,1,2-Trichlorotrifluoroet	4.47	101	2328	0.036	ppbv #	74
15) Acetone	3.86	43	4246	0.069	ppbv #	28
20) Methylene Chloride	4.33	84	2206	0.086	ppbv #	93
24) 1,1-Dichloroethane	4.99	63	2071	0.035	ppbv #	87
28) Methyl tert-Butyl Ether	5.04	73	1591	0.031	ppbv #	87
39) 1,2-Dichloropropane	7.15	63	454475	7.857	ppbv #	29

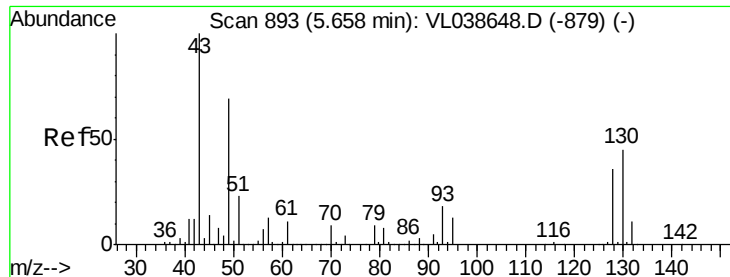
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032122AIR.M
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QLast Update : Mon Mar 21 17:09:26 2022
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 23 Mar 2022 8:35

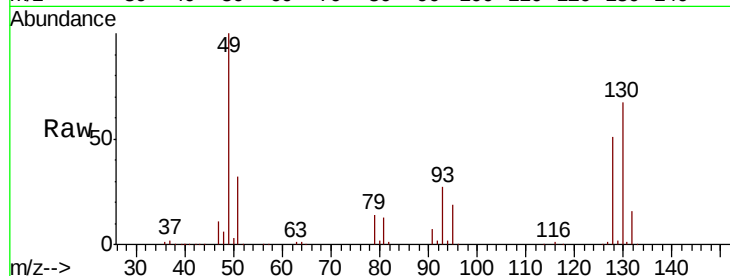
Tot Ion: 49 Resp: 709679

Ion Ratio Lower Upper

49 100

128 56.4 26.2 78.6

130 71.5 33.7 101.1



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V

400000

300000

200000

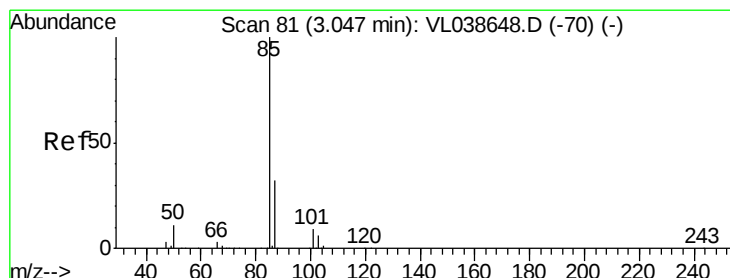
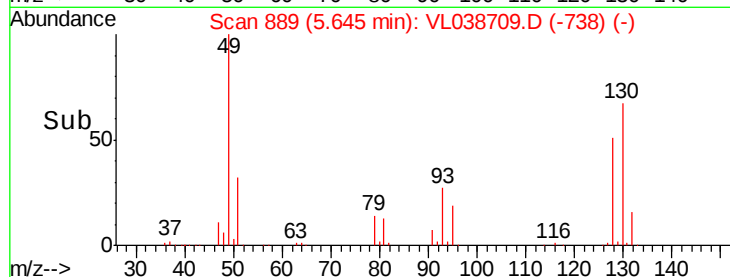
100000

0

5.65

5.55 5.60 5.65 5.70 5.75

Time-->



#2

Dichlorodifluoromethane

Concen: 0.035 ppbv

RT: 3.04 min Scan# 78

Delta R.T. -0.01 min

Lab File: VL038709.D

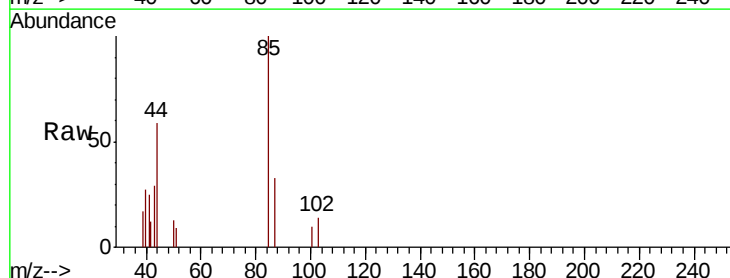
Acq: 23 Mar 2022 8:35

Tgt Ion: 85 Resp: 3296

Ion Ratio Lower Upper

85 100

87 33.2 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

2500

2000

1500

1000

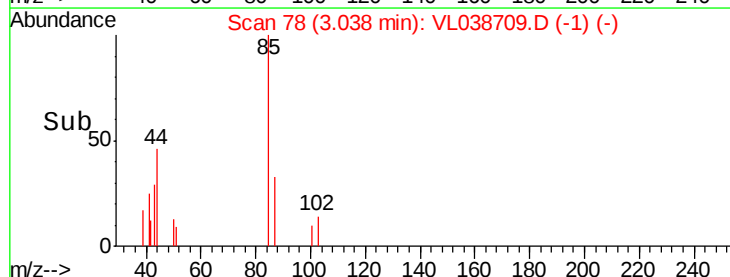
500

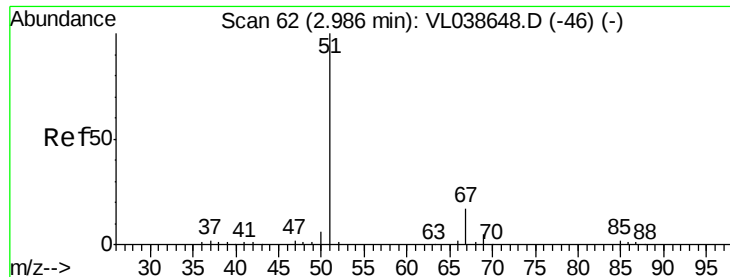
0

3.04

3.00 3.02 3.04 3.06 3.08

Time-->





#3

Chlorodifluoromethane

Concen: 0.048 ppbv

RT: 2.98 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

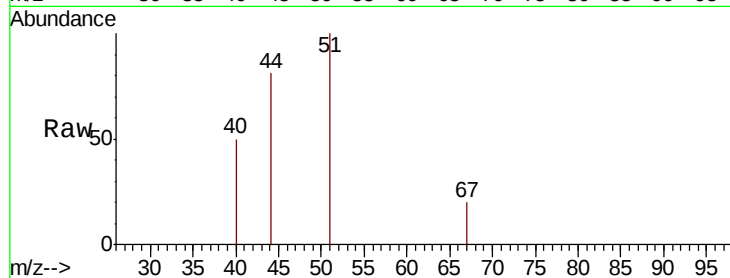
Acq: 23 Mar 2022 8:35

Tot Ion: 51 Resp: 3562

Ion Ratio Lower Upper

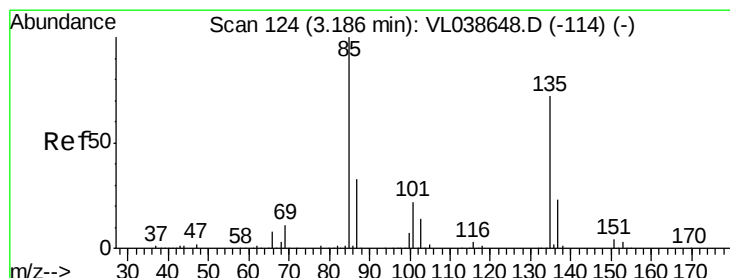
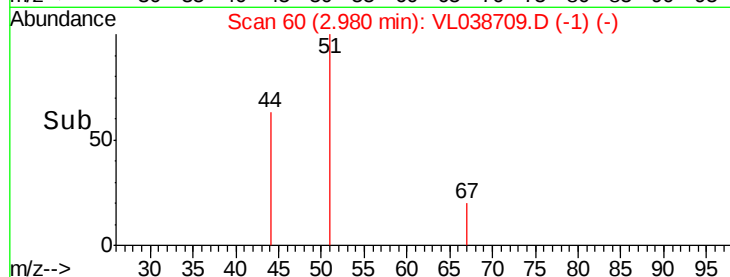
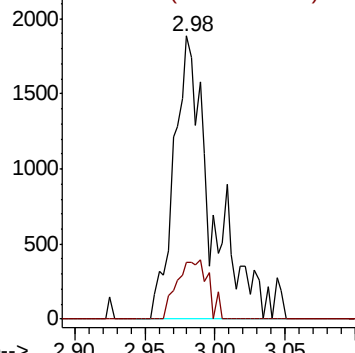
51 100

67 17.1 14.1 21.1



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.035 ppbv

RT: 3.18 min Scan# 122

Delta R.T. -0.01 min

Lab File: VL038709.D

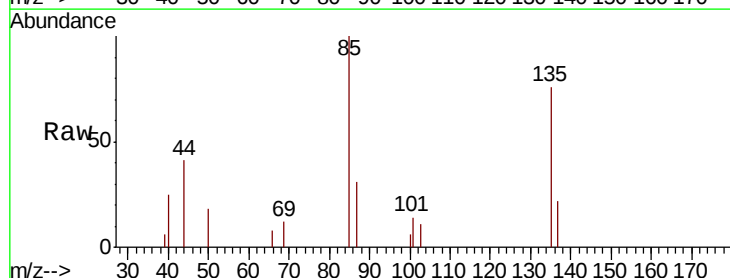
Acq: 23 Mar 2022 8:35

Tgt Ion: 85 Resp: 3368

Ion Ratio Lower Upper

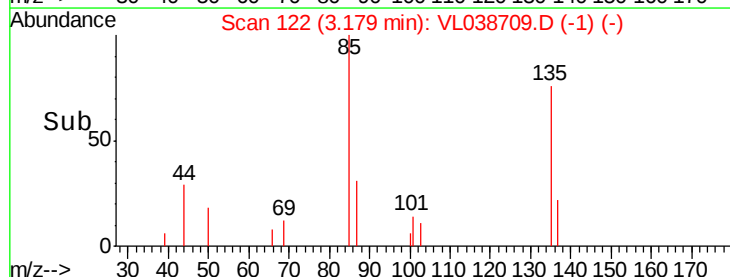
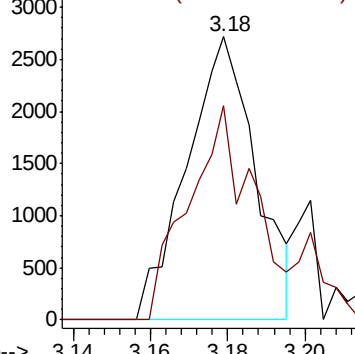
85 100

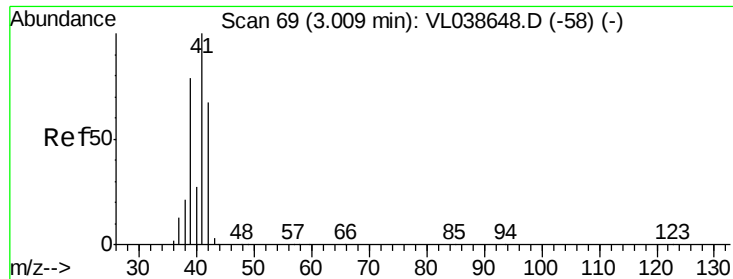
135 86.7 57.8 86.6#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 0.055 ppbv

RT: 3.00 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

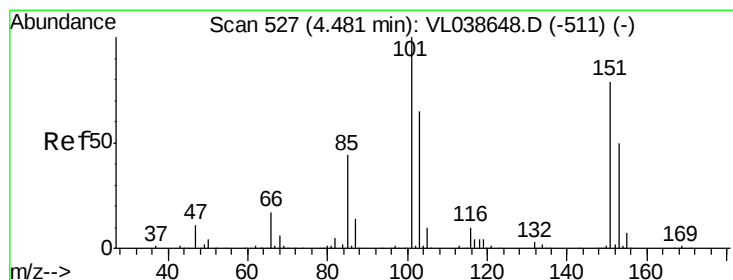
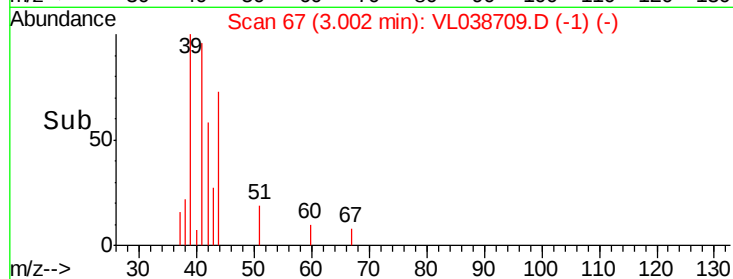
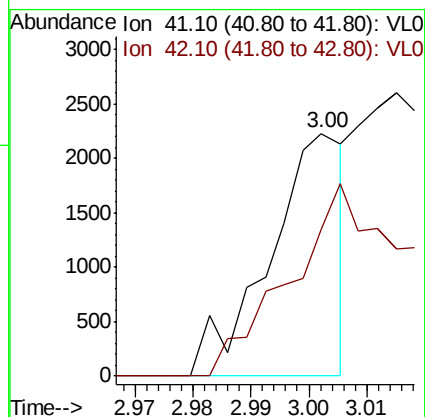
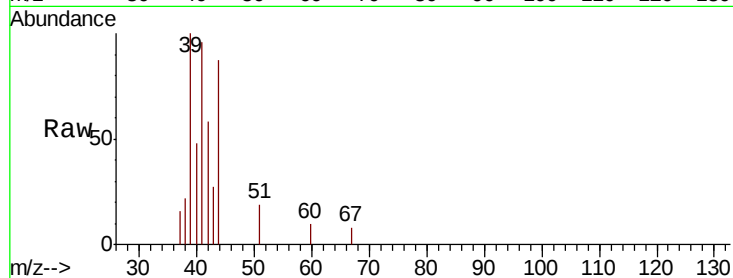
Acq: 23 Mar 2022 8:35

Tot Ion: 41 Resp: 1993

Ion Ratio Lower Upper

41 100

42 154.4 56.2 84.4#



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.036 ppbv

RT: 4.47 min Scan# 523

Delta R.T. -0.01 min

Lab File: VL038709.D

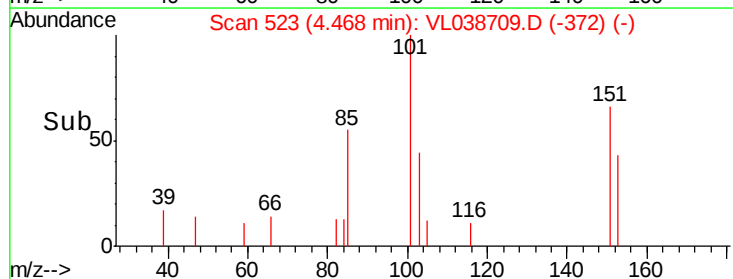
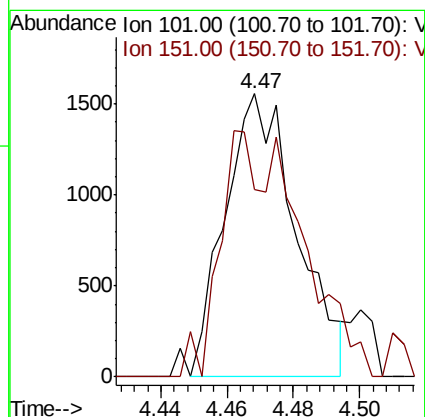
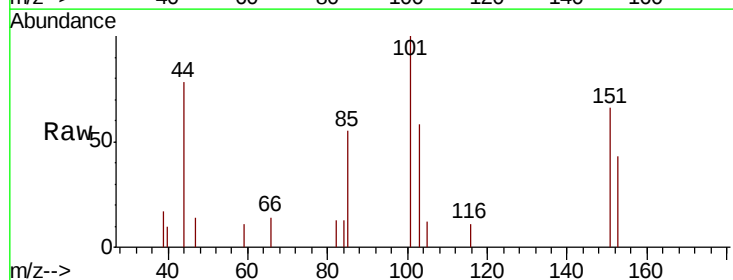
Acq: 23 Mar 2022 8:35

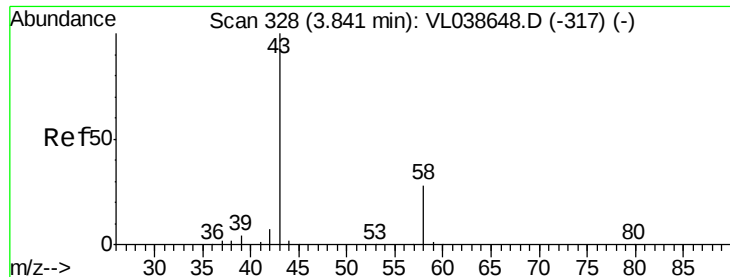
Tgt Ion:101 Resp: 2328

Ion Ratio Lower Upper

101 100

151 100.9 62.9 94.3#





#15

Acetone

Concen: 0.069 ppbv

RT: 3.86 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

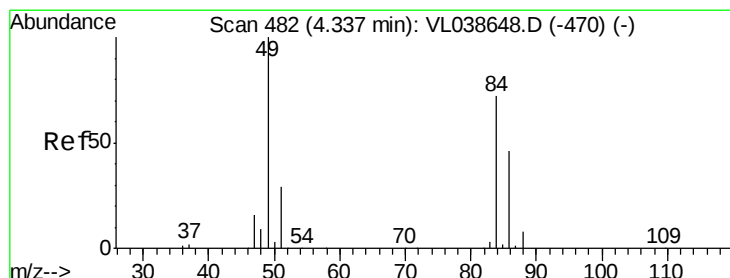
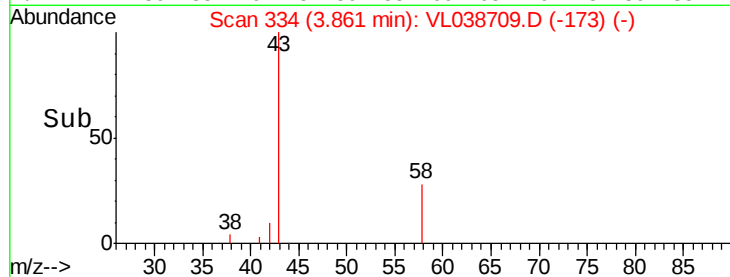
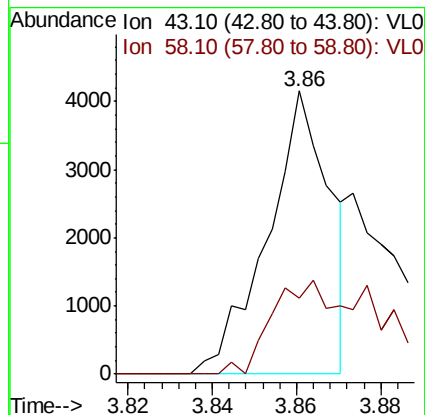
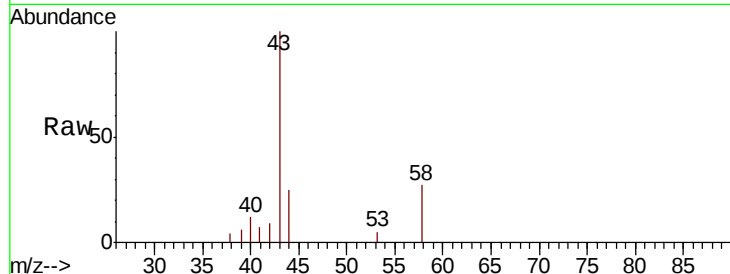
Acq: 23 Mar 2022 8:35

Tot Ion: 43 Resp: 4246

Ion Ratio Lower Upper

43 100

58 67.5 23.3 34.9#



#20

Methylene Chloride

Concen: 0.086 ppbv

RT: 4.33 min Scan# 481

Delta R.T. -0.00 min

Lab File: VL038709.D

Acq: 23 Mar 2022 8:35

Tgt Ion: 84 Resp: 2206

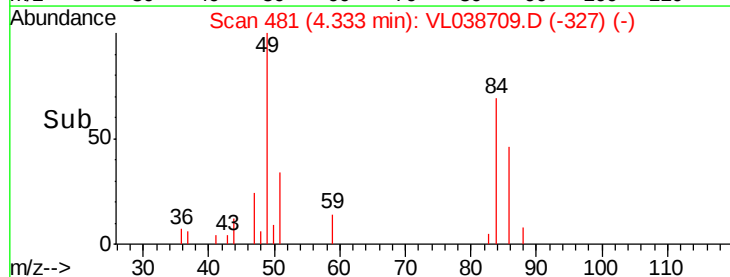
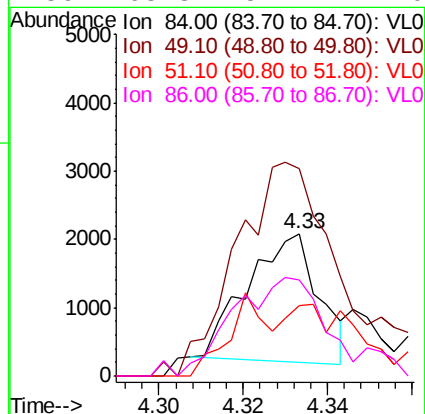
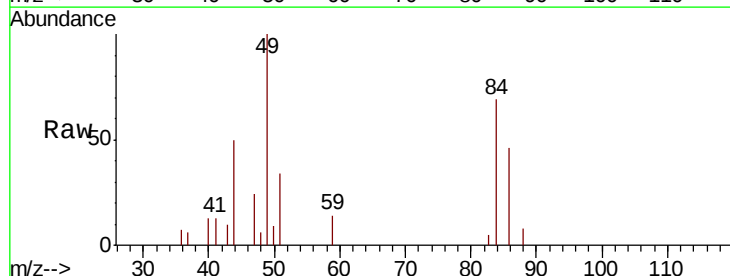
Ion Ratio Lower Upper

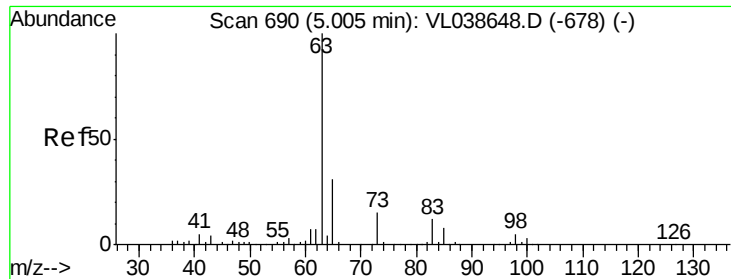
84 100

49 140.4 111.2 166.8

51 57.7 32.8 49.2#

86 68.3 51.4 77.0





#24

1,1-Dichloroethane

Concen: 0.035 ppbv

RT: 4.99 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: VIBLK

Acq: 23 Mar 2022 8:35

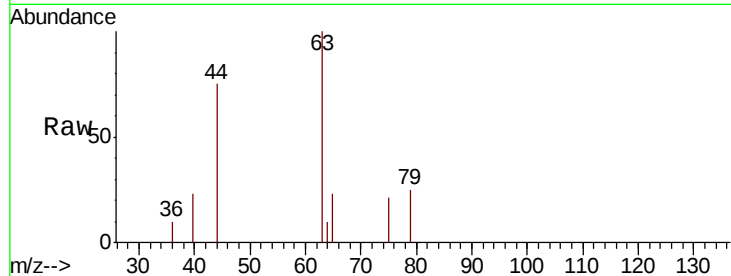
Tot Ion: 63 Resp: 2071

Ion Ratio Lower Upper

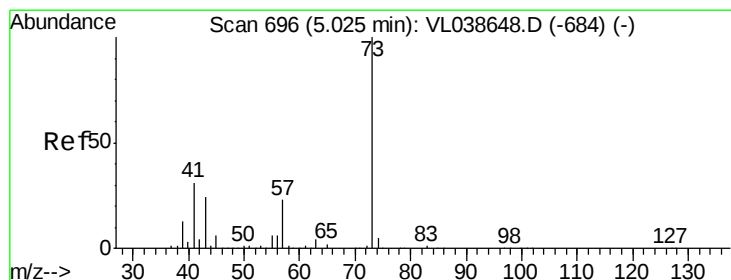
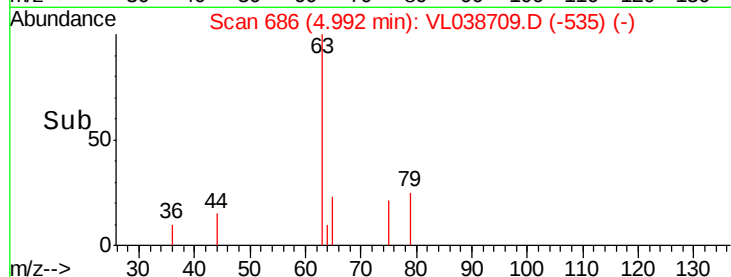
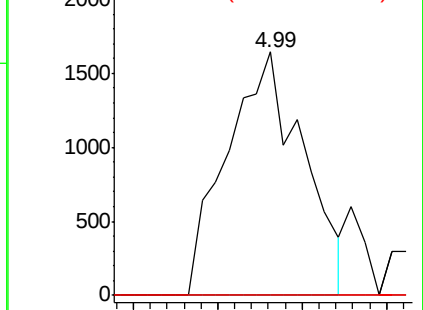
63 100

98 0.0 2.5 7.5#

100 0.0 1.4 4.2#



Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 98.00 (97.70 to 98.70): VL0
Ion 100.00 (99.70 to 100.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 0.031 ppbv

RT: 5.04 min Scan# 700

Delta R.T. 0.01 min

Lab File: VL038709.D

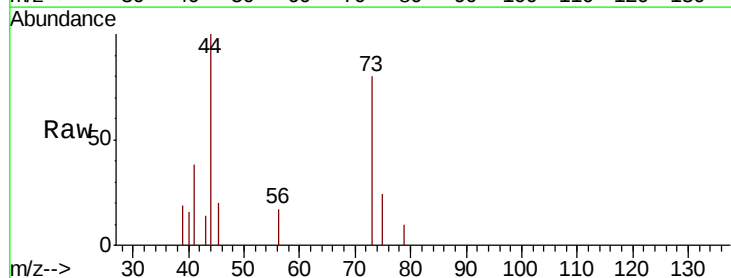
Acq: 23 Mar 2022 8:35

Tgt Ion: 73 Resp: 1591

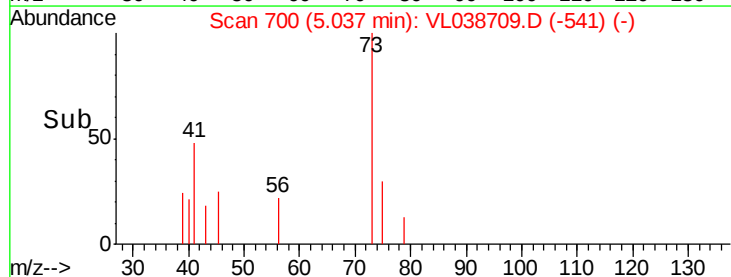
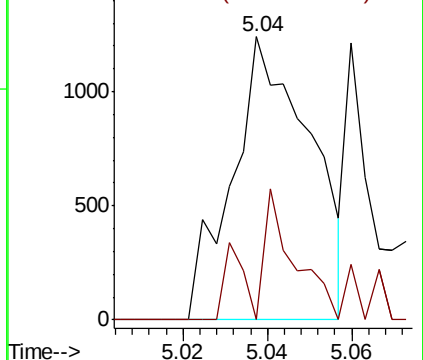
Ion Ratio Lower Upper

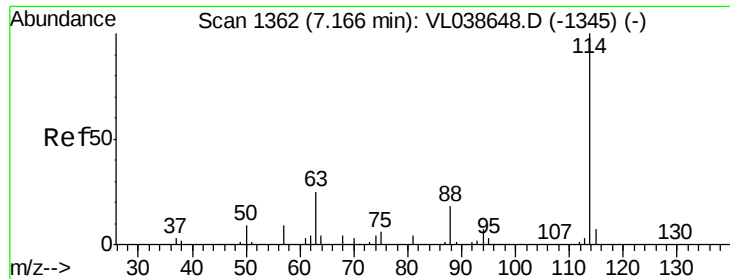
73 100

57 30.2 19.2 28.8#



Abundance Ion 73.10 (72.80 to 73.80): VL0
Ion 57.10 (56.80 to 57.80): VL0

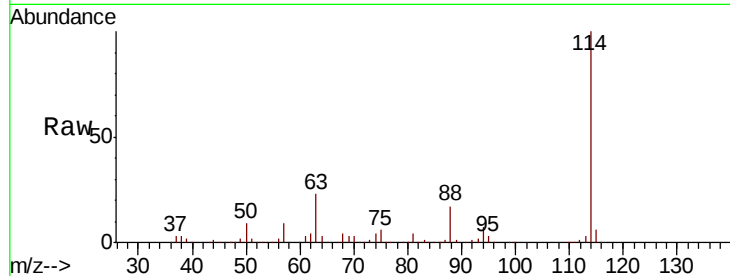




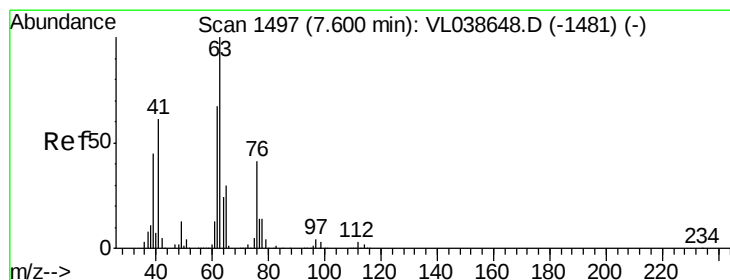
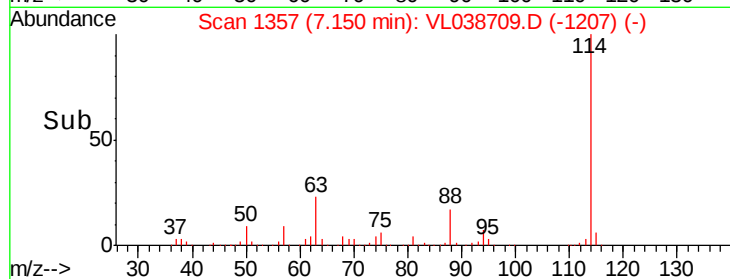
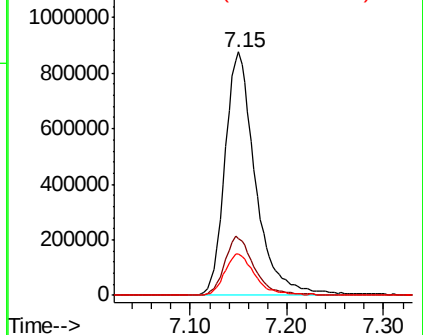
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.15 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 23 Mar 2022 8:35

Tot Ion: 114 Resp: 1917244

Ion	Ratio	Lower	Upper
114	100		
63	24.0	19.4	29.0
88	17.3	13.9	20.9



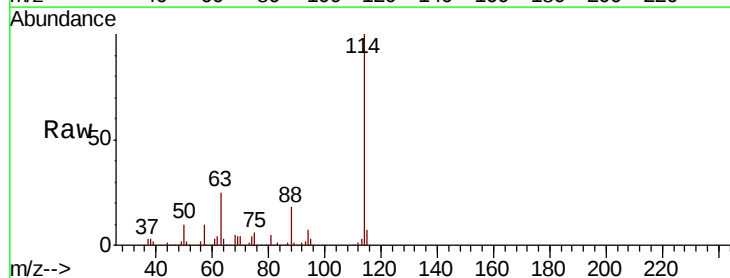
Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0



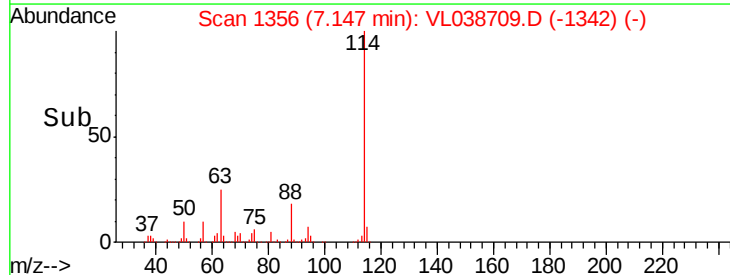
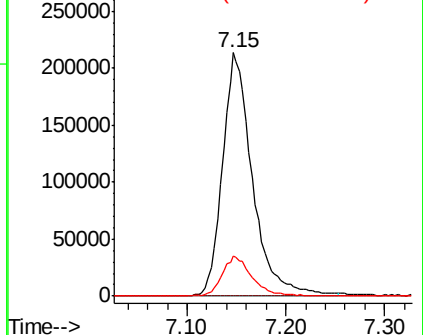
#39
 1,2-Dichloropropane
 Concen: 7.857 ppbv
 RT: 7.15 min Scan# 1356
 Delta R.T. -0.45 min
 Lab File: VL038709.D
 Acq: 23 Mar 2022 8:35

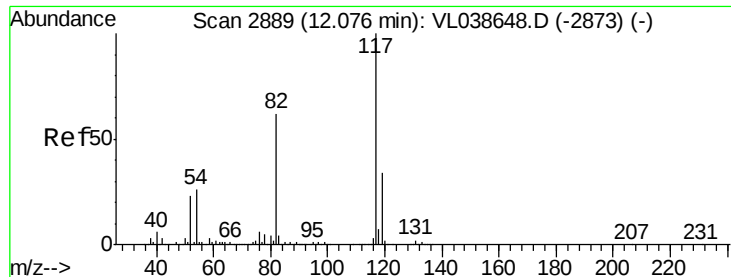
Tgt Ion: 63 Resp: 454475

Ion	Ratio	Lower	Upper
63	100		
41	0.0	49.0	73.6#
62	16.3	53.9	80.9#



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

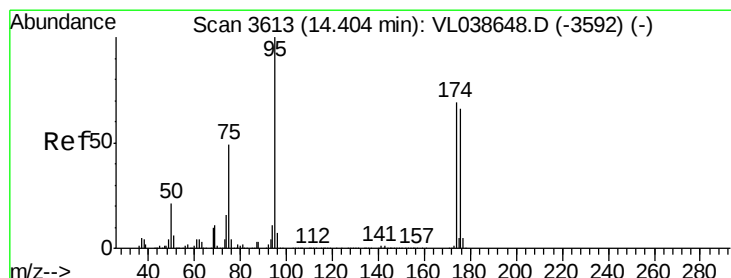
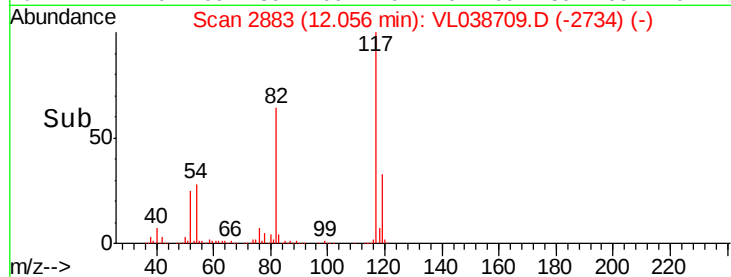
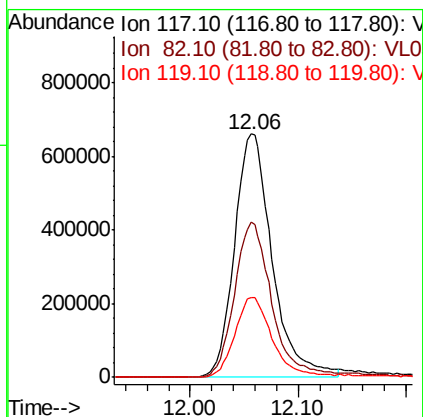
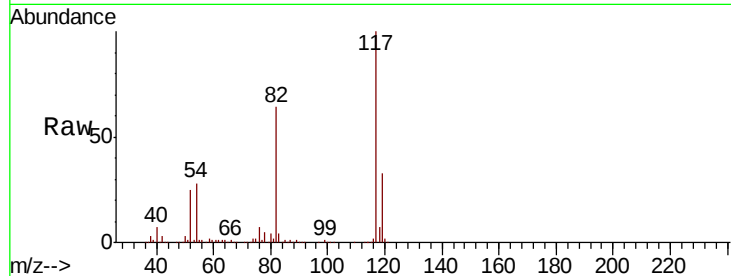




#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.06 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 VIBLK
 Acq: 23 Mar 2022 8:35

Tot Ion: 117 Resp: 1608879

Ion	Ratio	Lower	Upper
117	100		
82	66.4	51.6	77.4
119	33.9	26.9	40.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.618 ppbv
 RT: 14.38 min Scan# 3607
 Delta R.T.: -0.02 min
 Lab File: VL038709.D
 Acq: 23 Mar 2022 8:35

Tgt Ion: 95 Resp: 1186389

Ion	Ratio	Lower	Upper
95	100		
174	74.2	56.1	84.1
175	5.3	4.2	6.2

