

Data File : VL037439.D
Acq On : 13 Aug 2021 8:10
Operator : SY/AP
Sample : M3239-02DL 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA1REDL

Quant Time: Aug 13 08:44:23 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL081221AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Aug 12 15:26:13 2021
QLast Update : Thu Aug 12 15:26:13 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1045033	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3093809	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	2633570	10.00	ppbv	0.00

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.41 95 1972614 10.44 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 104.40%

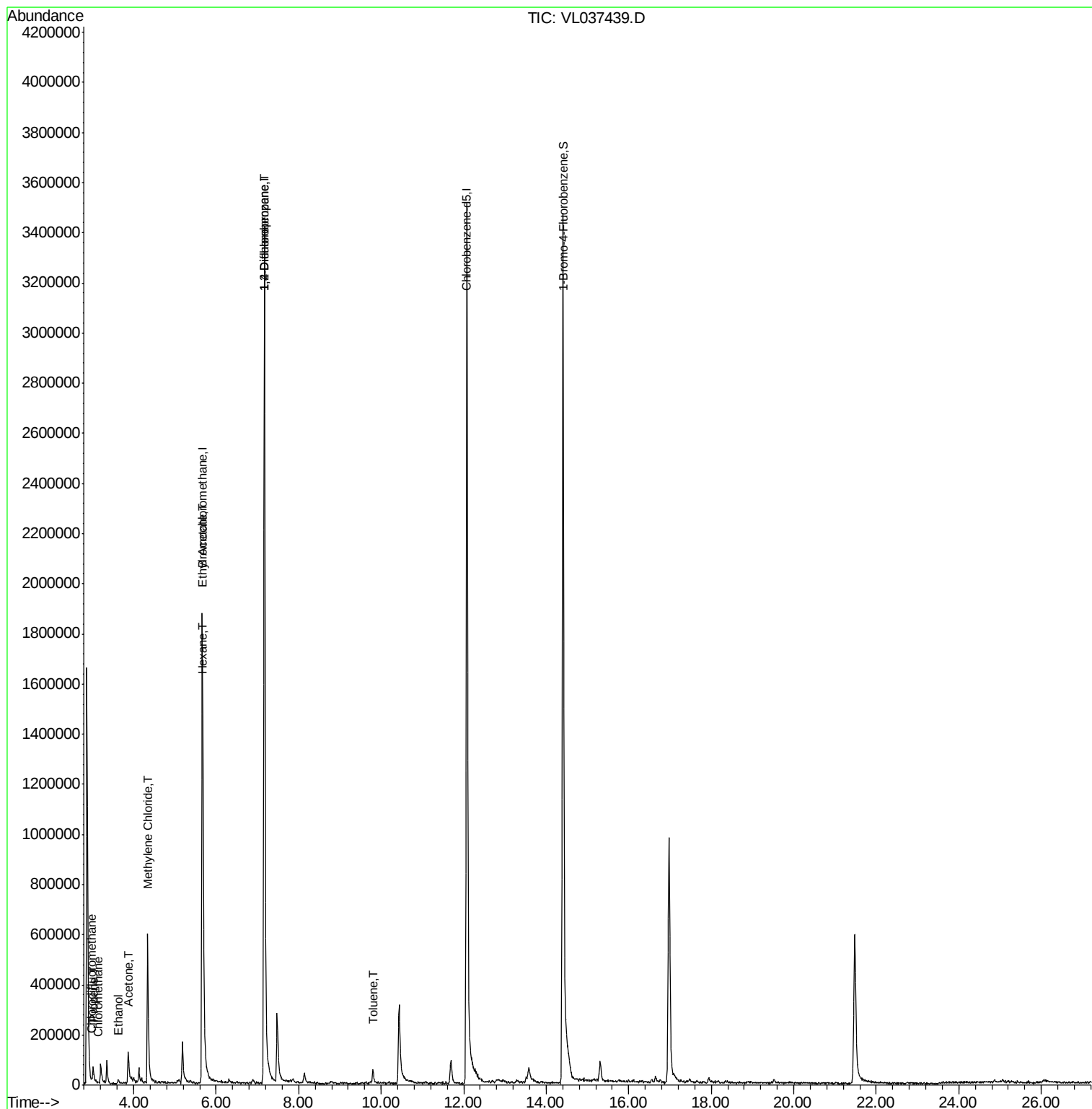
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	2.99	51	20703	0.101	ppbv	99
4) Chloromethane	3.14	50	2556	0.035	ppbv #	42
9) Propene	3.01	41	8503	0.123	ppbv #	16
13) Ethanol	3.63	45	6454	0.878	ppbv #	31
15) Acetone	3.87	43	73522	0.663	ppbv #	44
20) Methylene Chloride	4.34	84	244232	4.168	ppbv	98
25) Ethyl Acetate	5.68	43	63232	0.239	ppbv #	76
26) Hexane	5.69	57	221755	1.627	ppbv #	45
39) 1,2-Dichloropropane	7.17	63	725017	7.296	ppbv #	26
53) Toluene	9.80	91	21891	0.074	ppbv #	33

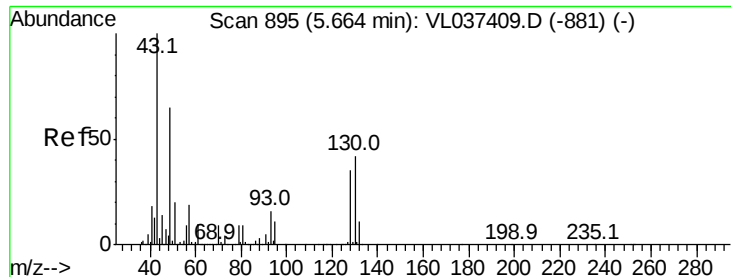
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.00 min

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MSVOA_L

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IA1REDL

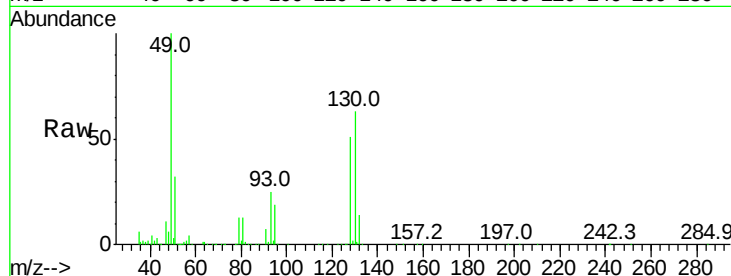
Tgt Ion: 49 Resp: 1045033

Ion Ratio Lower Upper

49 100

128 56.0 27.9 83.6

130 69.9 34.6 103.8



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

5.66

600000

500000

400000

300000

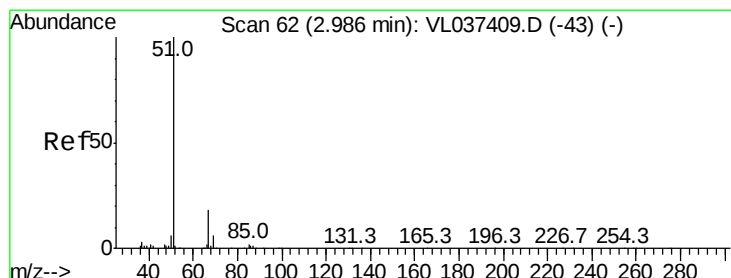
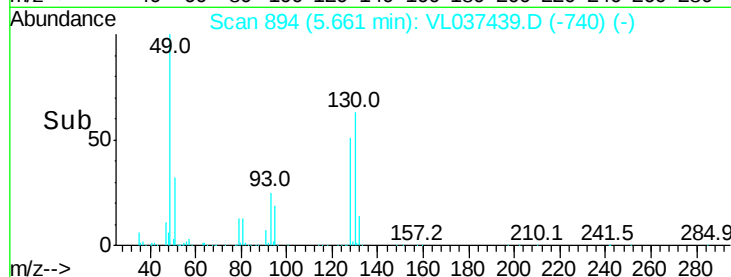
200000

100000

0

5.60 5.65 5.70 5.75

Time-->



#3

Chlorodifluoromethane

Concen: 0.101 ppbv

RT: 2.99 min Scan# 62

Delta R.T. -0.00 min

Lab File: VL037439.D

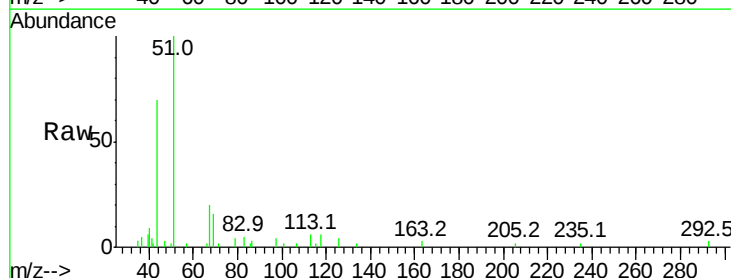
Acq: 13 Aug 2021 8:10

Tgt Ion: 51 Resp: 20703

Ion Ratio Lower Upper

51 100

67 17.9 14.7 22.1



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

2.99

10000

8000

6000

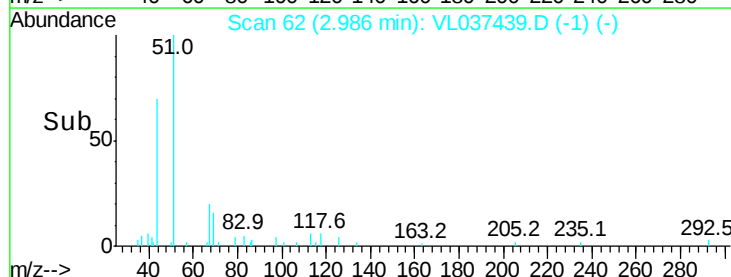
4000

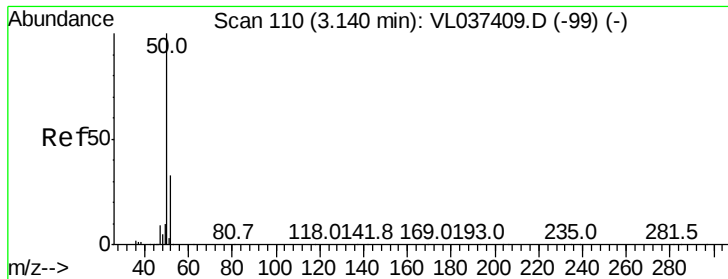
2000

0

2.90 3.00 3.10

Time-->





#4

Chloromethane

Concen: 0.035 ppbv

RT: 3.14 min Scan# 109

Delta R.T. -0.00 min

Lab File: VL037439.D

Acq: 13 Aug 2021 8:10

Instrument :

MSVOA_L

ClientSampleId :

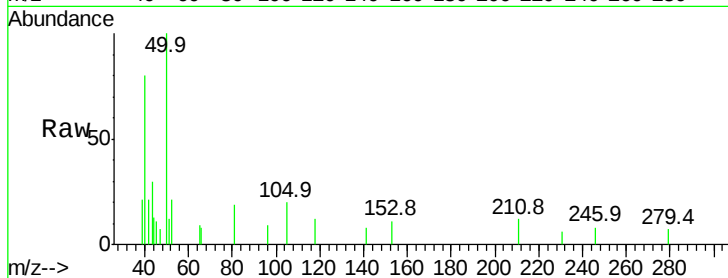
IA1REDL

Tgt Ion: 50 Resp: 2556

Ion Ratio Lower Upper

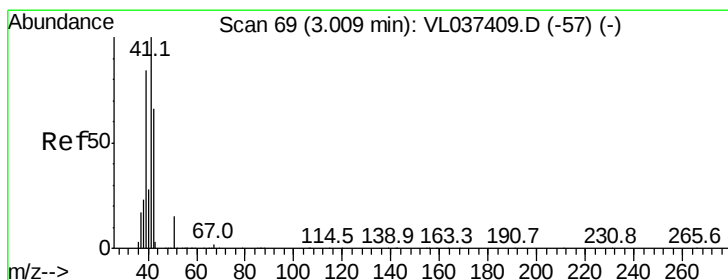
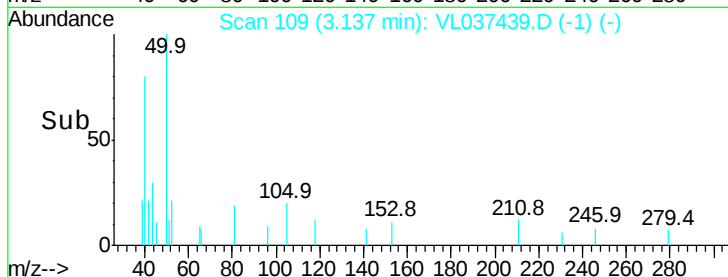
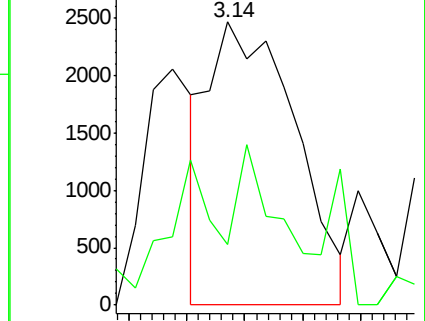
50 100

52 0.0 26.2 39.4#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#9

Propene

Concen: 0.123 ppbv

RT: 3.01 min Scan# 69

Delta R.T. -0.00 min

Lab File: VL037439.D

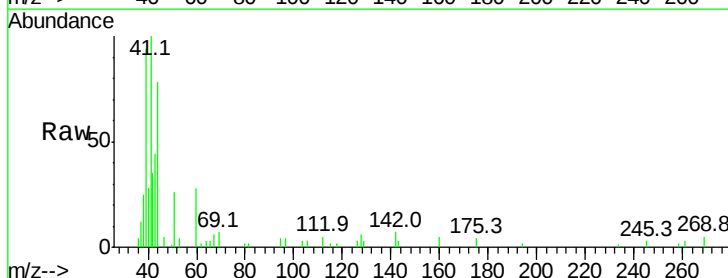
Acq: 13 Aug 2021 8:10

Tgt Ion: 41 Resp: 8503

Ion Ratio Lower Upper

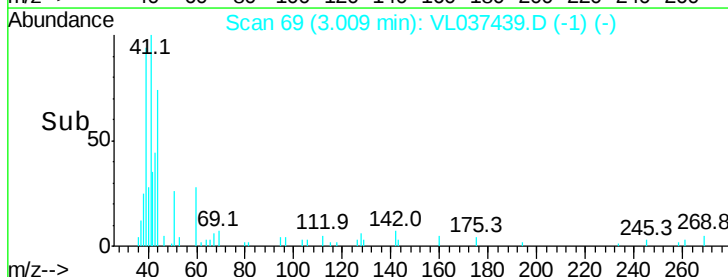
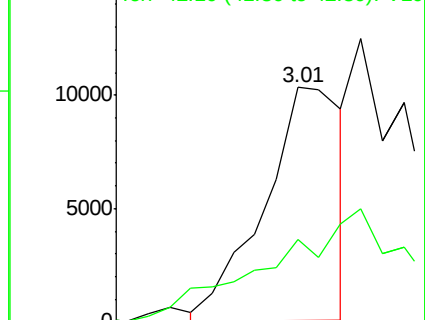
41 100

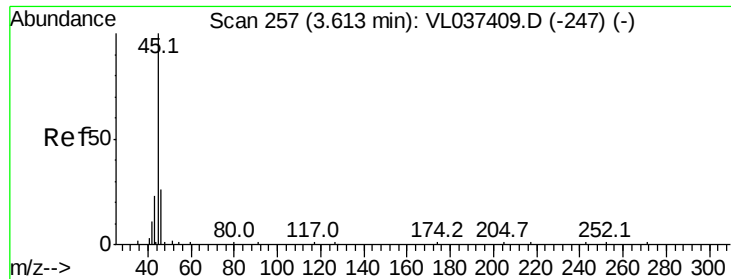
42 0.0 53.8 80.8#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

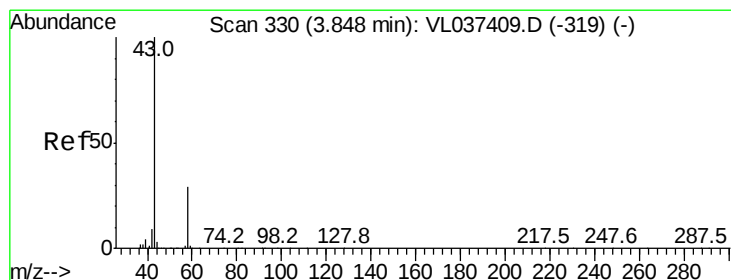
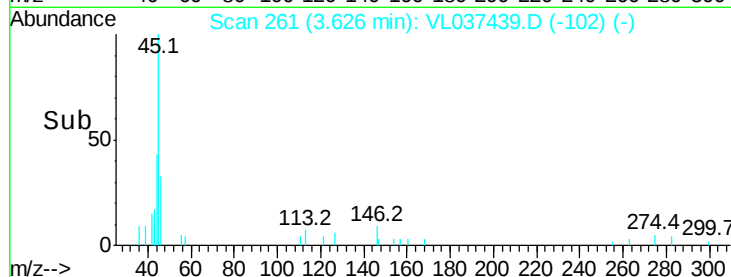
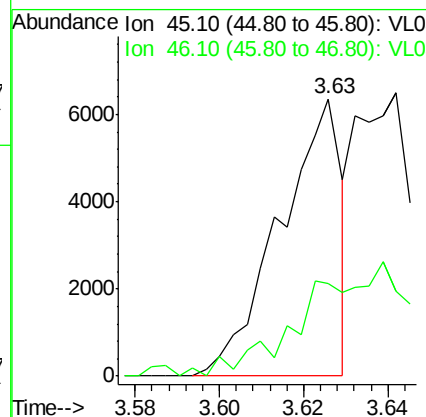
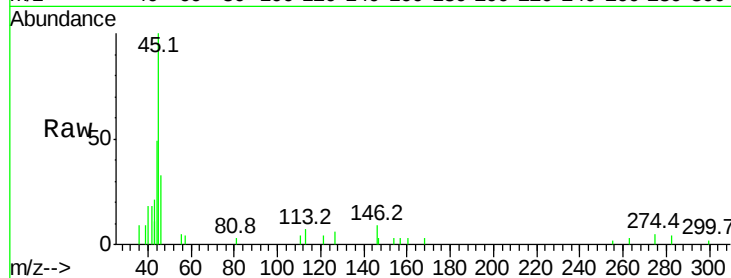




#13
Ethanol
Concen: 0.878 ppbv
RT: 3.63 min Scan# 261
Delta R.T. 0.01 min
Lab File: VL037439.D
Acq: 13 Aug 2021 8:10

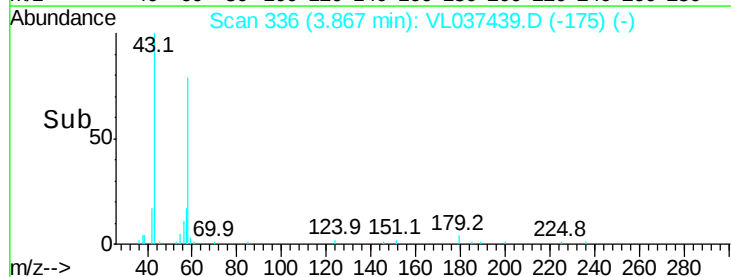
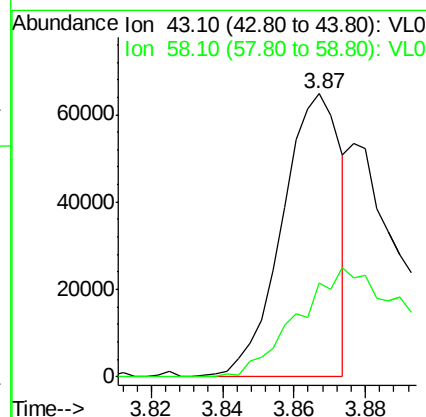
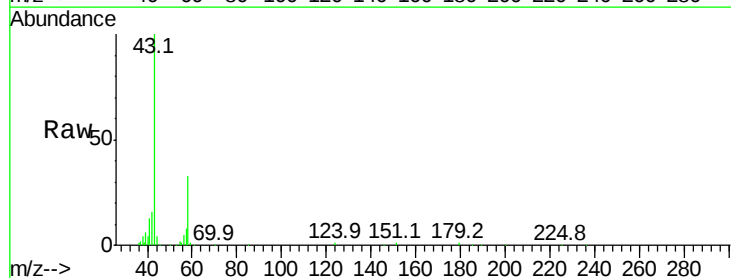
Instrument :
MSVOA_L
ClientSampleId :
IA1REDL

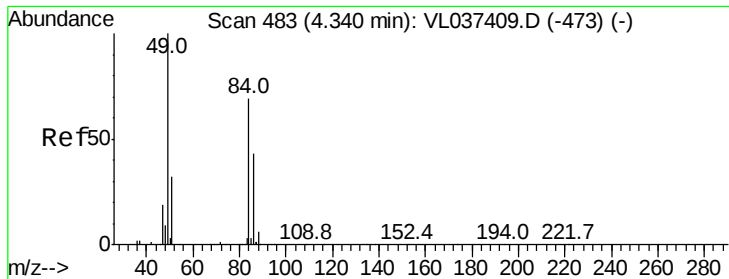
Tgt Ion: 45 Resp: 6454
Ion Ratio Lower Upper
45 100
46 0.0 18.0 72.2#



#15
Acetone
Concen: 0.663 ppbv
RT: 3.87 min Scan# 336
Delta R.T. 0.02 min
Lab File: VL037439.D
Acq: 13 Aug 2021 8:10

Tgt Ion: 43 Resp: 73522
Ion Ratio Lower Upper
43 100
58 0.0 24.4 36.6#

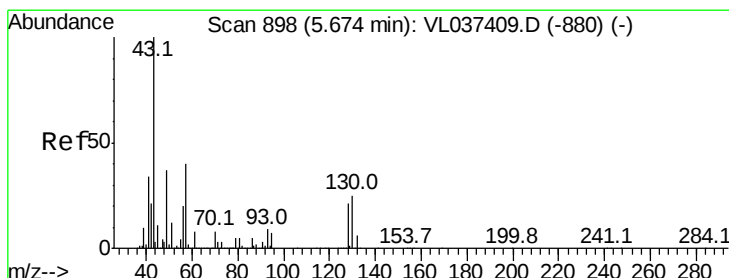
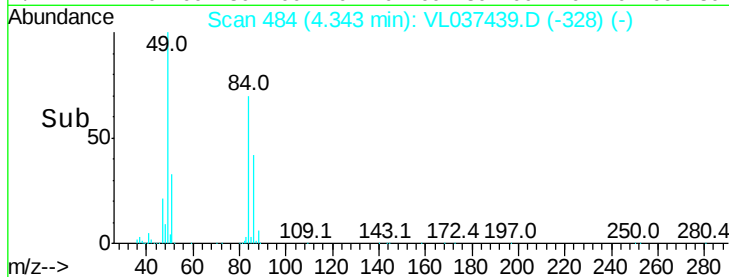
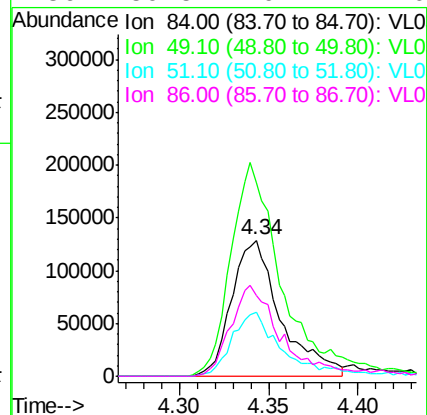
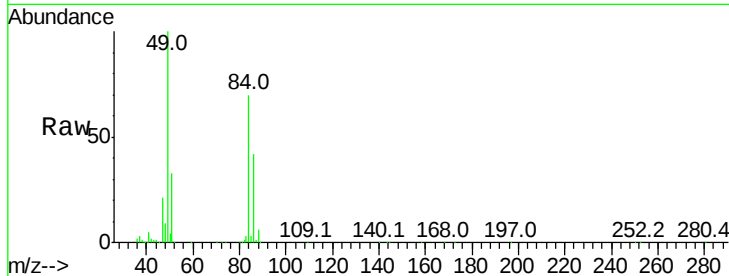




#20
Methylene Chloride
Concen: 4.168 ppbv
RT: 4.34 min Scan# 484
Delta R.T. 0.00 min
Lab File: VL037439.D
Acq: 13 Aug 2021 8:10

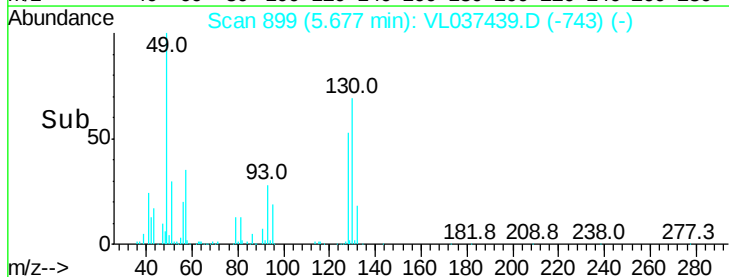
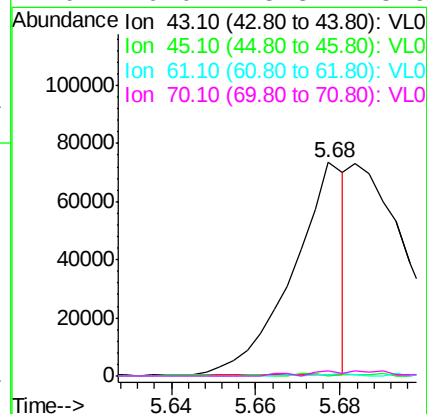
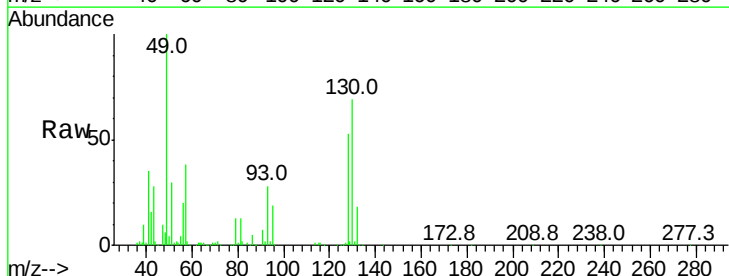
Instrument :
MSVOA_L
ClientSampleId :
IA1REDL

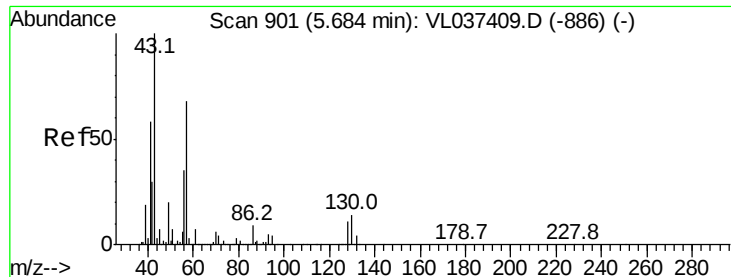
Tgt Ion:	84	Resp:	244232
Ion	Ratio	Lower	Upper
84	100		
49	141.5	116.0	174.0
51	46.5	37.1	55.7
86	59.5	49.4	74.0



#25
Ethyl Acetate
Concen: 0.239 ppbv
RT: 5.68 min Scan# 899
Delta R.T. 0.00 min
Lab File: VL037439.D
Acq: 13 Aug 2021 8:10

Tgt Ion:	43	Resp:	63232
Ion	Ratio	Lower	Upper
43	100		
45	0.5	7.9	11.9#
61	0.0	7.7	11.5#
70	0.0	5.8	8.6#

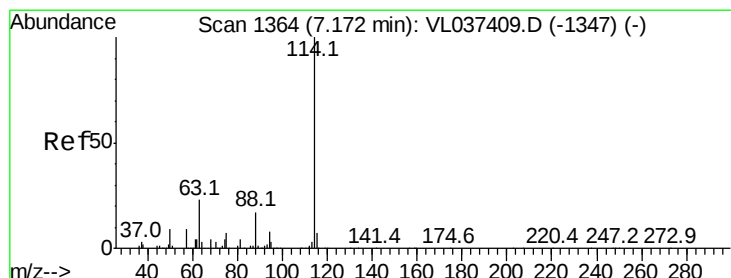
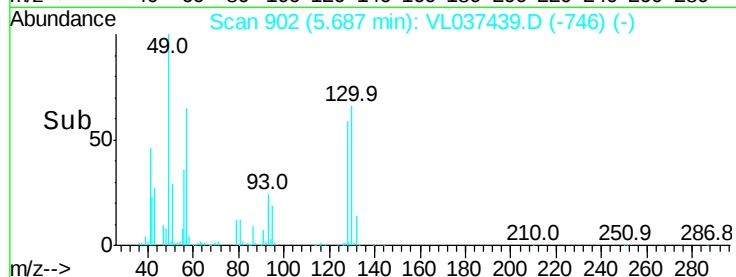
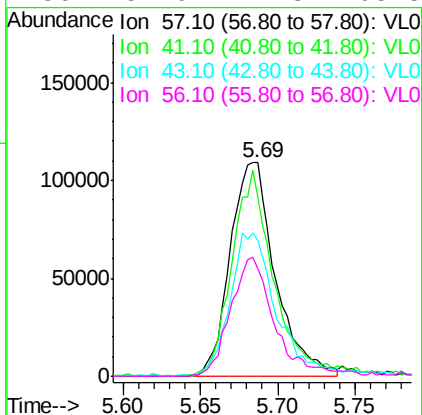
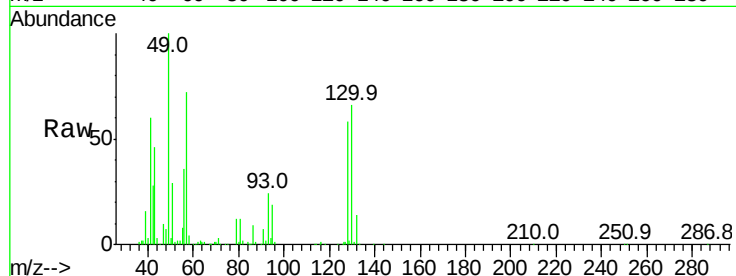




#26
Hexane
Concen: 1.627 ppbv
RT: 5.69 min Scan# 902
Delta R.T. 0.00 min
Lab File: VL037439.D
Acq: 13 Aug 2021 8:10

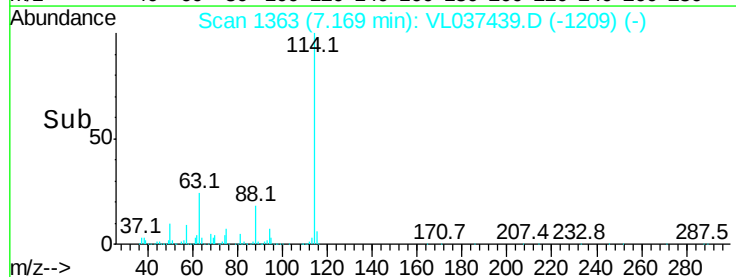
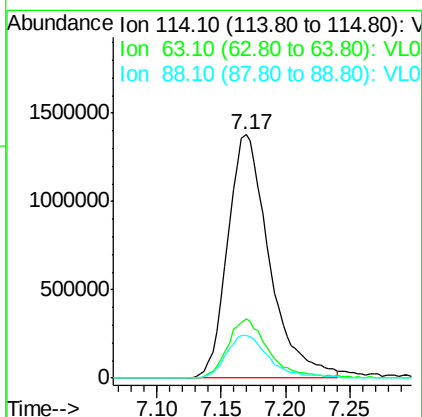
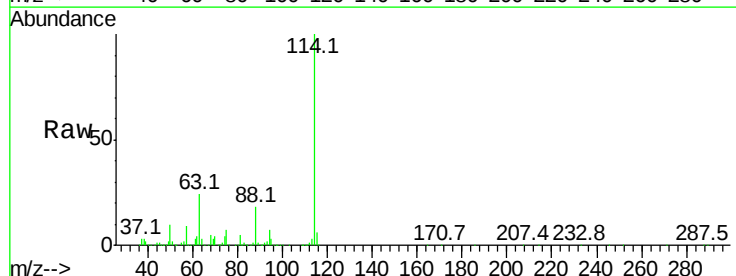
Instrument :
MSVOA_L
ClientSampleId :
IA1REDL

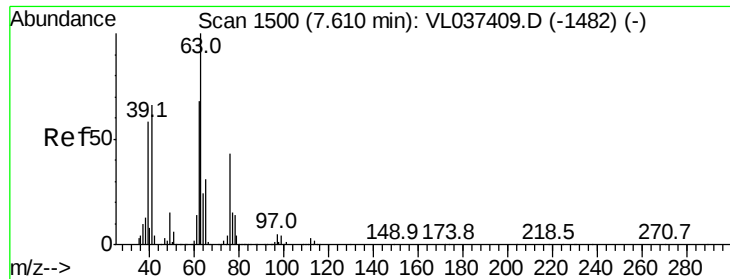
Tgt Ion: 57 Resp: 221755
Ion Ratio Lower Upper
57 100
41 92.8 72.5 108.7
43 70.2 169.3 253.9#
56 54.6 42.3 63.5



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1363
Delta R.T. -0.00 min
Lab File: VL037439.D
Acq: 13 Aug 2021 8:10

Tgt Ion: 114 Resp: 3093809
Ion Ratio Lower Upper
114 100
63 24.5 19.4 29.2
88 18.2 14.2 21.4





#39

1,2-Dichloropropane

Concen: 7.296 ppbv

RT: 7.17 min Scan# 1363

Delta R.T. -0.44 min

Lab File: VL037439.D

Acq: 13 Aug 2021 8:10

Instrument :

MSVOA_L

ClientSampleId :

IA1REDL

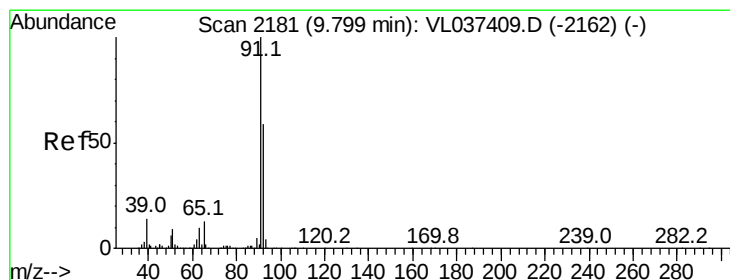
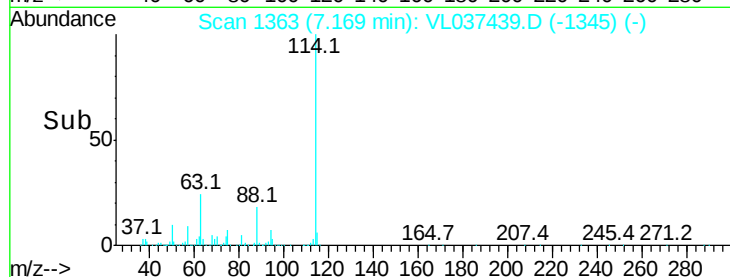
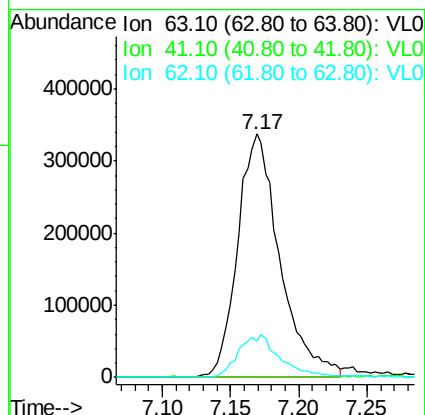
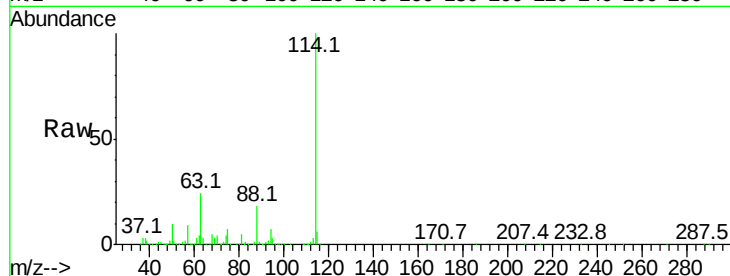
Tgt Ion: 63 Resp: 725017

Ion Ratio Lower Upper

63 100

41 0.0 53.0 79.6#

62 14.9 54.5 81.7#



#53

Toluene

Concen: 0.074 ppbv

RT: 9.80 min Scan# 2181

Delta R.T. -0.00 min

Lab File: VL037439.D

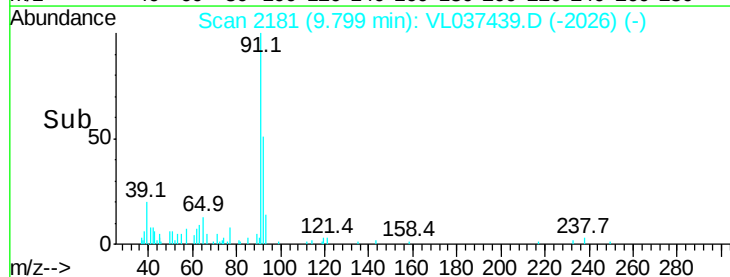
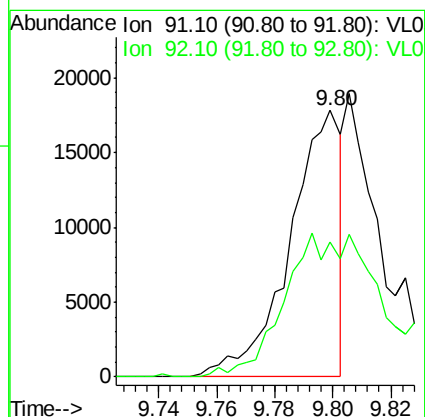
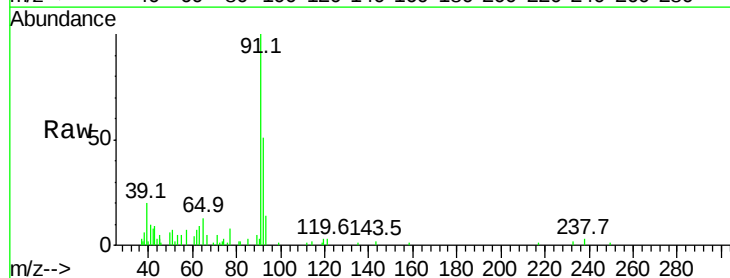
Acq: 13 Aug 2021 8:10

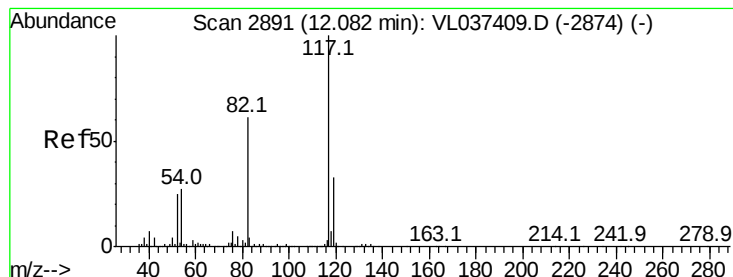
Tgt Ion: 91 Resp: 21891

Ion Ratio Lower Upper

91 100

92 112.6 49.0 73.6#





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2889

Delta R.T. -0.01 min

Lab File: VL037439.D

Acq: 13 Aug 2021 8:10

Instrument :

MSVOA_L

ClientSampleId :

IA1REDL

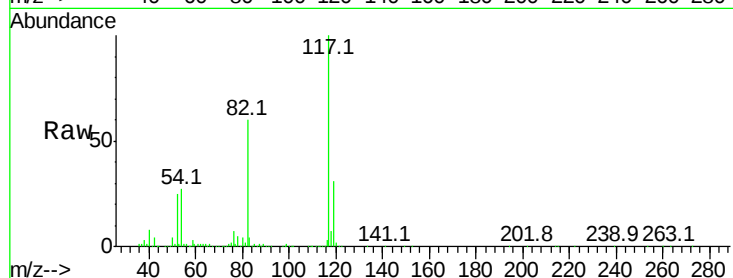
Tgt Ion:117 Resp: 2633570

Ion Ratio Lower Upper

117 100

82 67.3 53.1 79.7

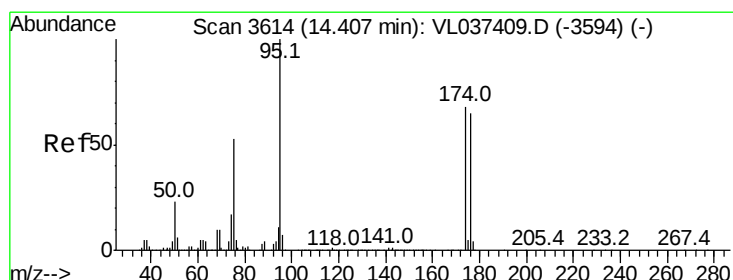
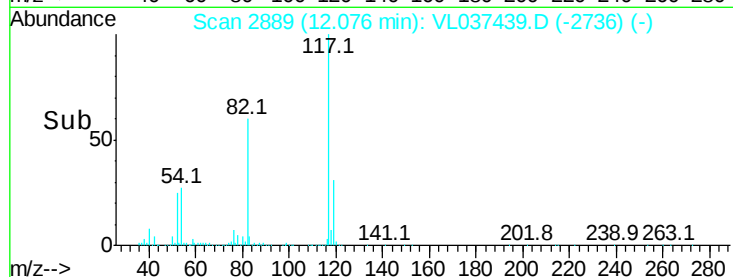
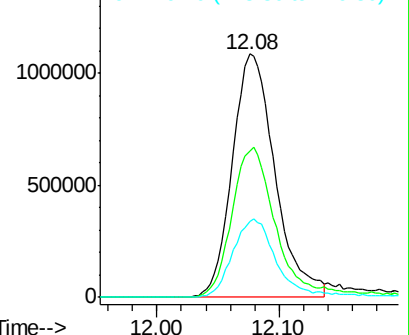
119 34.6 28.0 42.0



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.442 ppbv

RT: 14.41 min Scan# 3614

Delta R.T. -0.00 min

Lab File: VL037439.D

Acq: 13 Aug 2021 8:10

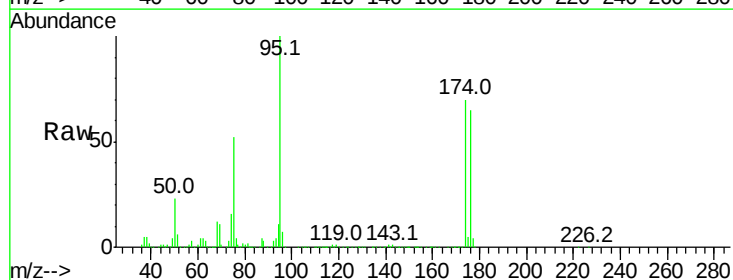
Tgt Ion: 95 Resp: 1972614

Ion Ratio Lower Upper

95 100

174 74.9 59.6 89.4

175 5.5 4.3 6.5



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

