

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060722\
 Data File : VL039214.D
 Acq On : 7 Jun 2022 18:14
 Operator : SY/AP
 Sample : N3199-03DL 4X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 08 05:00:07 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL053122AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jun 01 01:22:18 2022

QLast Update : Wed Jun 01 01:22:18 2022

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	757864	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	1819338	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	1532253	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	1323111	10.44	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.40%

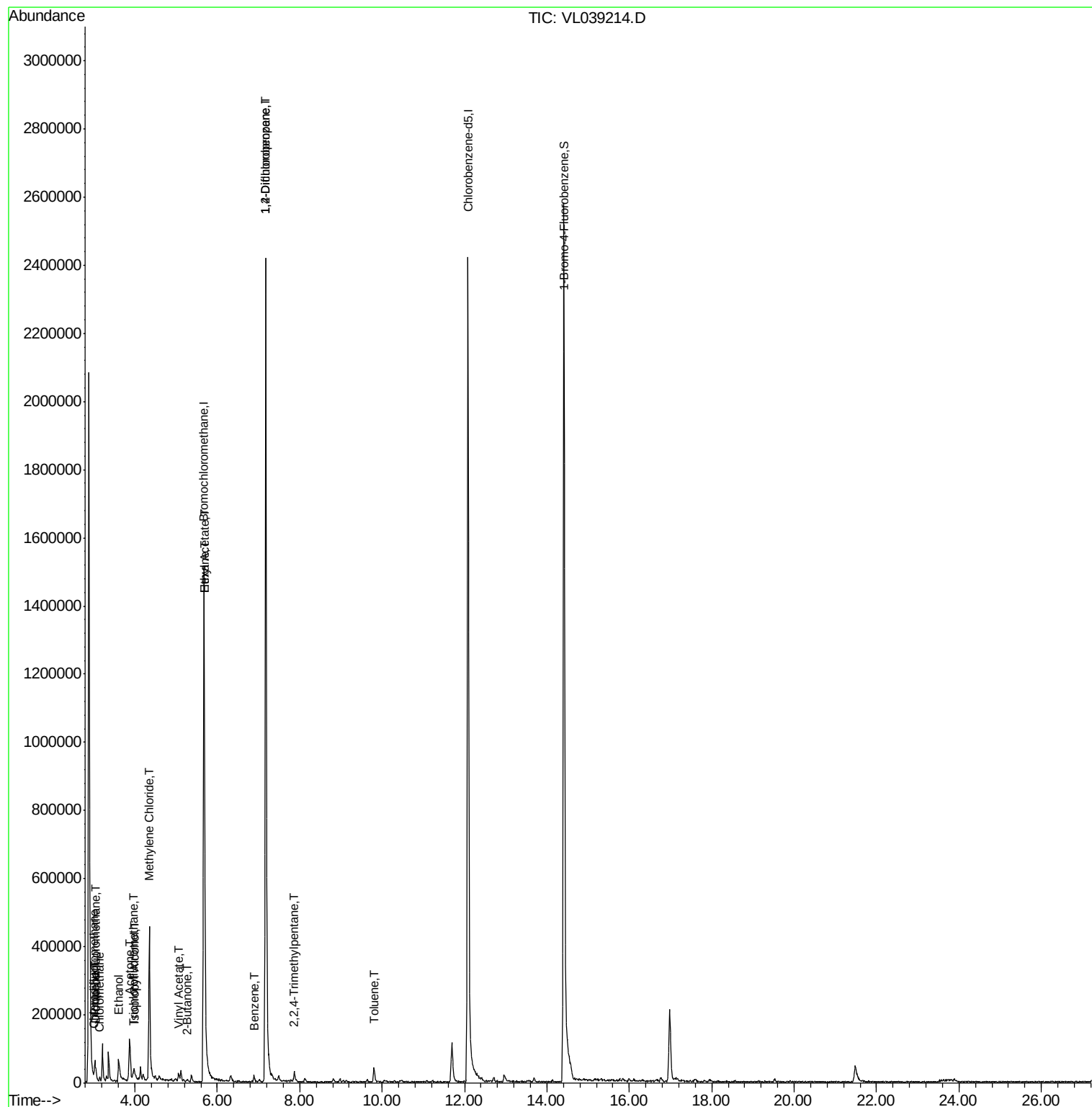
Target Compounds

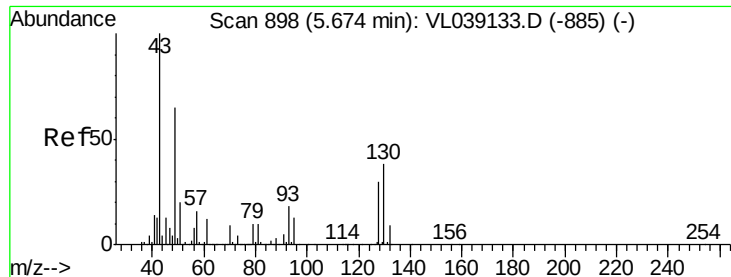
					Ovalue
2) Dichlorodifluoromethane	3.06	85	19564	0.147 ppbv	98
3) Chlorodifluoromethane	3.00	51	22241	0.231 ppbv #	87
4) Chloromethane	3.15	50	5414	0.109 ppbv #	65
9) Propene	3.02	41	7147	0.170 ppbv #	1
11) Trichlorofluoromethane	3.95	101	7495	0.062 ppbv	84
13) Ethanol	3.61	45	38511	16.795 ppbv #	100
15) Acetone	3.86	43	72738	0.921 ppbv #	47
19) Isopropyl Alcohol	3.98	45	26348	0.712 ppbv #	85
20) Methylene Chloride	4.35	84	200816	6.036 ppbv	95
23) Vinyl Acetate	5.07	43	2265	0.035 ppbv #	27
25) Ethyl Acetate	5.69	43	104434	0.587 ppbv #	77
26) Hexane	5.69	57	159802	2.044 ppbv #	38
34) 2-Butanone	5.26	43	3866	0.039 ppbv #	38
36) Benzene	6.90	78	5889	0.040 ppbv #	93
39) 1,2-Dichloropropane	7.18	63	517246	8.804 ppbv #	23
44) 2,2,4-Trimethylpentane	7.87	57	12897	0.050 ppbv #	21
53) Toluene	9.80	91	9309	0.055 ppbv #	21

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

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QLast Update : Wed Jun 01 01:22:18 2022
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 897

Delta R.T. -0.00 min

Lab File: VL039214.D

Acq: 7 Jun 2022 18:14

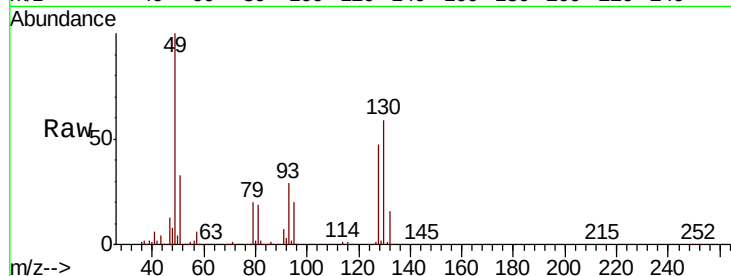
Tot Ion: 49 Resp: 757864

Ion Ratio Lower Upper

49 100

128 48.8 24.7 74.1

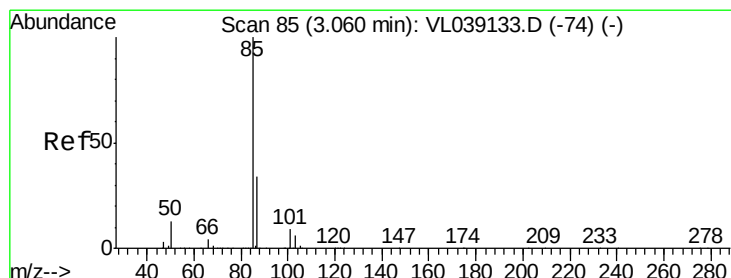
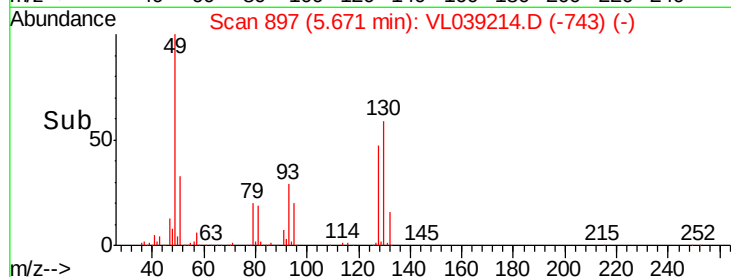
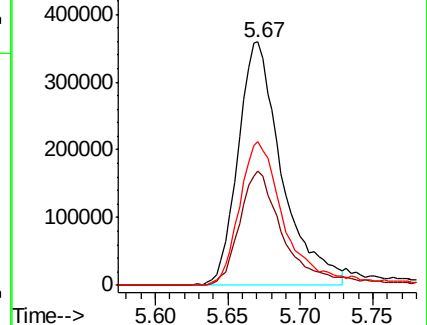
130 63.5 31.4 94.0



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



#2

Dichlorodifluoromethane

Concen: 0.147 ppbv

RT: 3.06 min Scan# 84

Delta R.T. -0.00 min

Lab File: VL039214.D

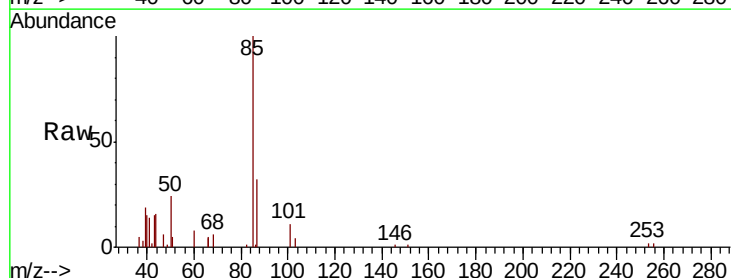
Acq: 7 Jun 2022 18:14

Tgt Ion: 85 Resp: 19564

Ion Ratio Lower Upper

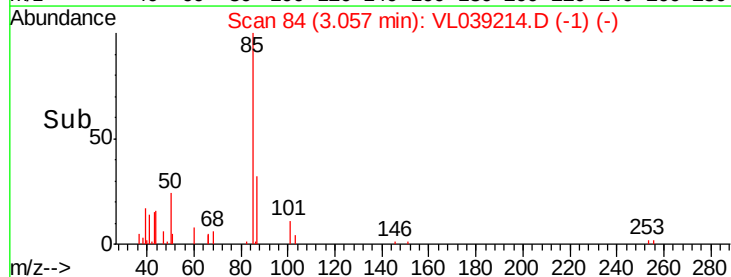
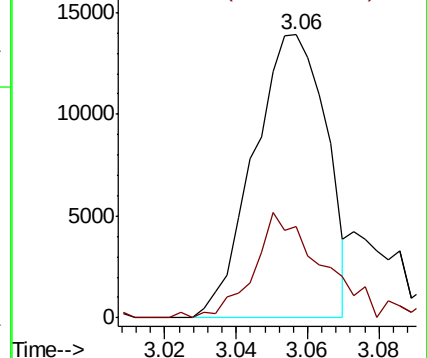
85 100

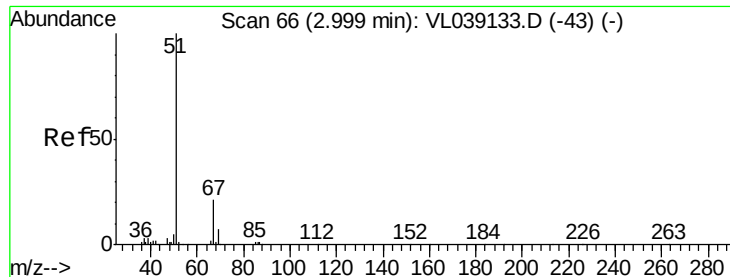
87 32.5 26.9 40.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.231 ppbv

RT: 3.00 min Scan# 65

Delta R.T. -0.00 min

Lab File: VL039214.D

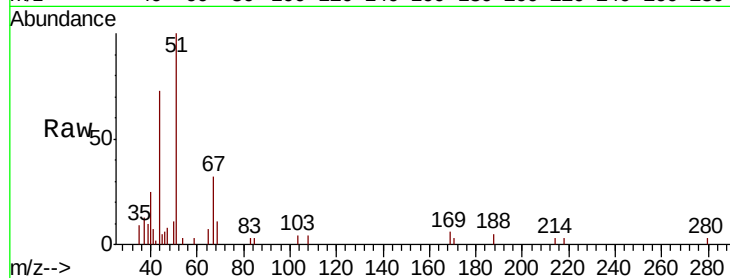
Acq: 7 Jun 2022 18:14

Tot Ion: 51 Resp: 22241

Ion Ratio Lower Upper

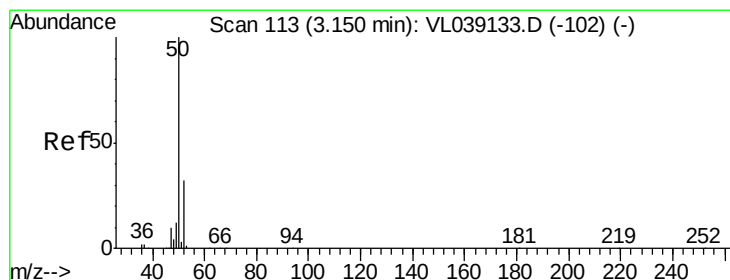
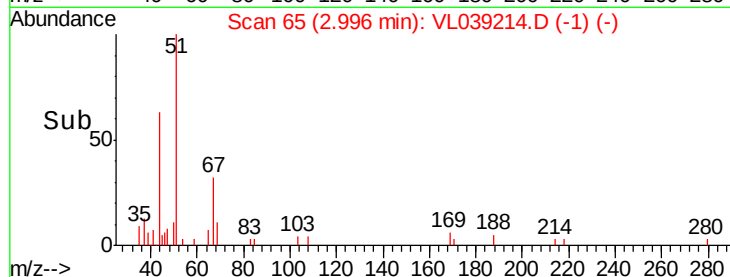
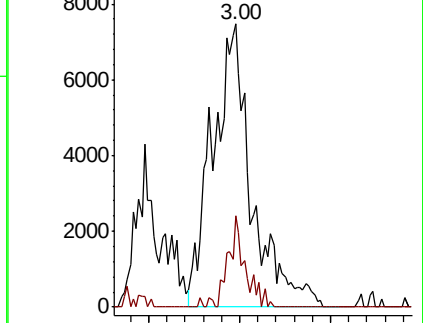
51 100

67 14.1 16.2 24.4#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.109 ppbv

RT: 3.15 min Scan# 112

Delta R.T. -0.00 min

Lab File: VL039214.D

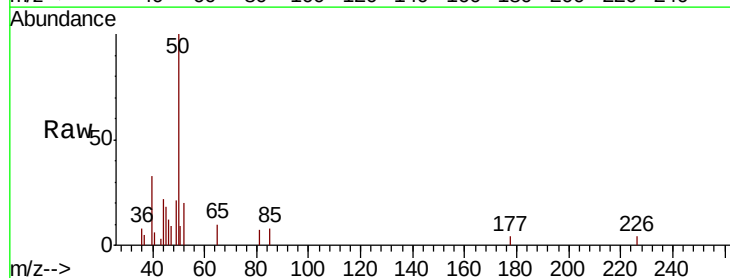
Acq: 7 Jun 2022 18:14

Tgt Ion: 50 Resp: 5414

Ion Ratio Lower Upper

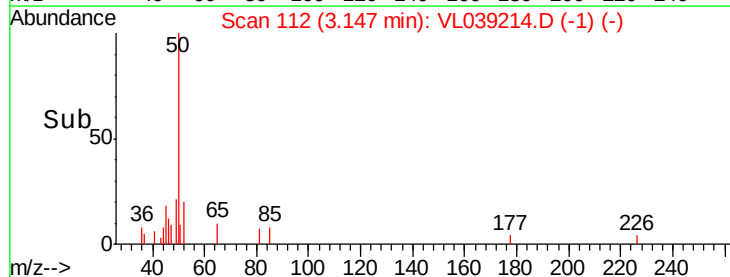
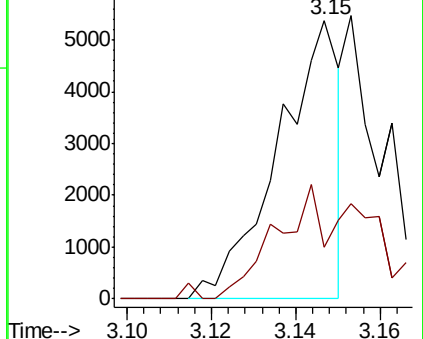
50 100

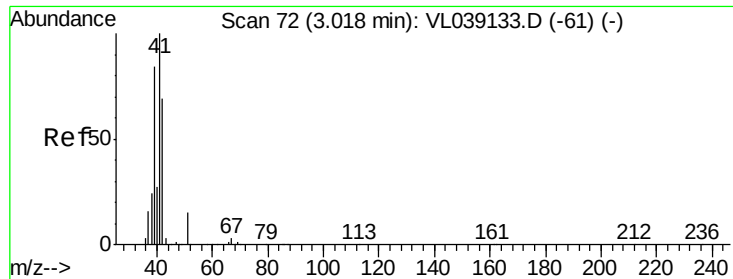
52 13.0 25.9 38.9#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.170 ppbv

RT: 3.02 min Scan# 72

Delta R.T. -0.00 min

Lab File: VL039214.D

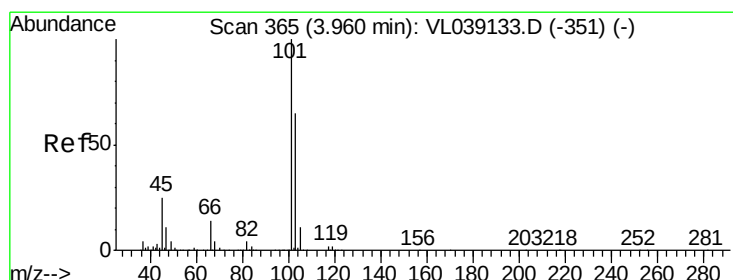
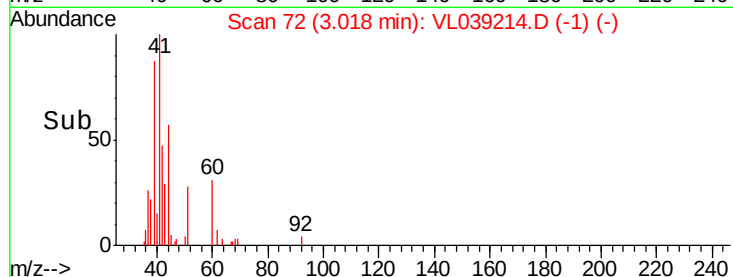
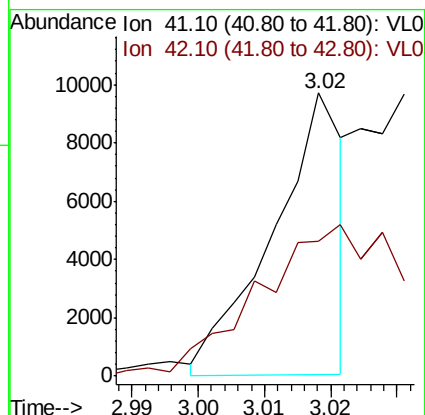
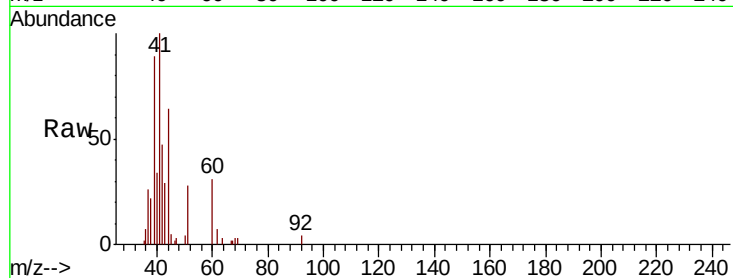
Acq: 7 Jun 2022 18:14

Tot Ion: 41 Resp: 7147

Ion Ratio Lower Upper

41 100

42 151.4 55.4 83.2#



#11

Trichlorofluoromethane

Concen: 0.062 ppbv

RT: 3.95 min Scan# 363

Delta R.T. -0.01 min

Lab File: VL039214.D

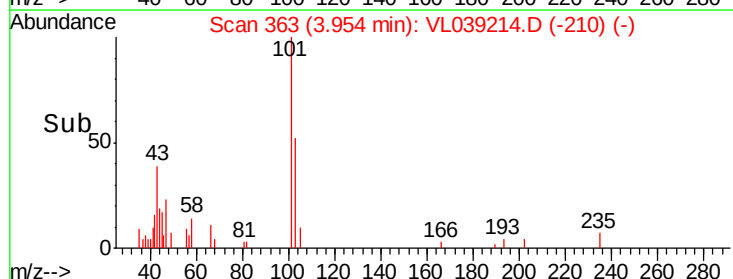
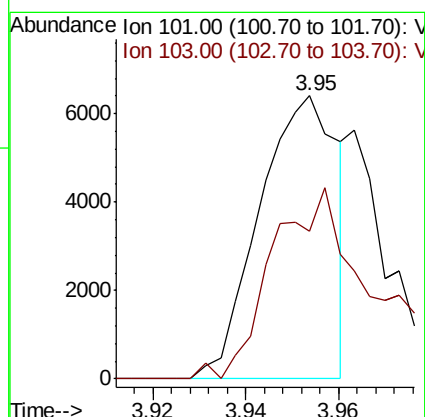
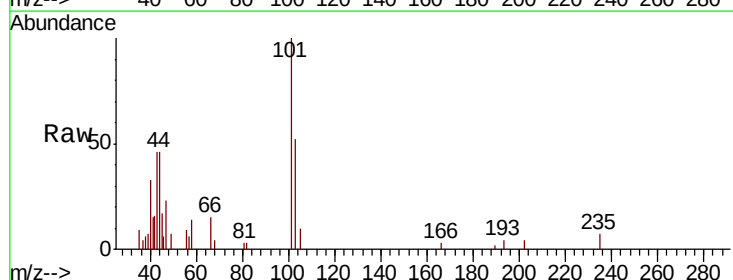
Acq: 7 Jun 2022 18:14

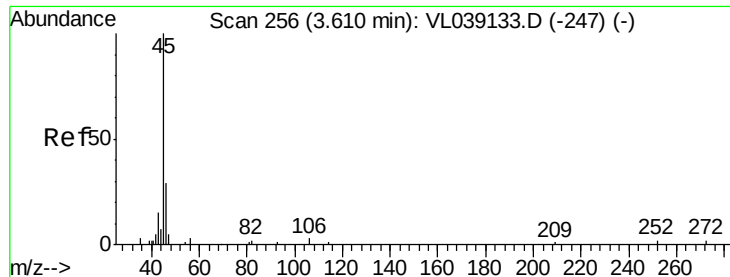
Tgt Ion: 101 Resp: 7495

Ion Ratio Lower Upper

101 100

103 52.2 51.7 77.5





#13

Ethanol

Concen: 16.795 ppbv

RT: 3.61 min Scan# 255

Delta R.T. -0.00 min

Lab File: VL039214.D

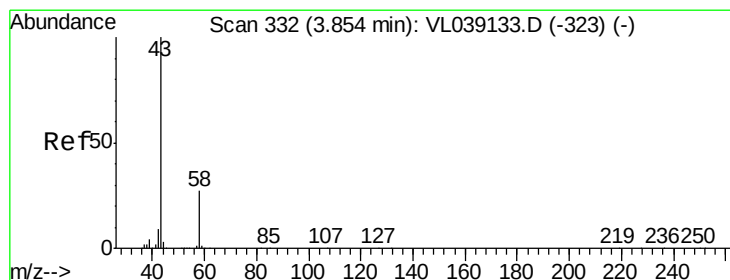
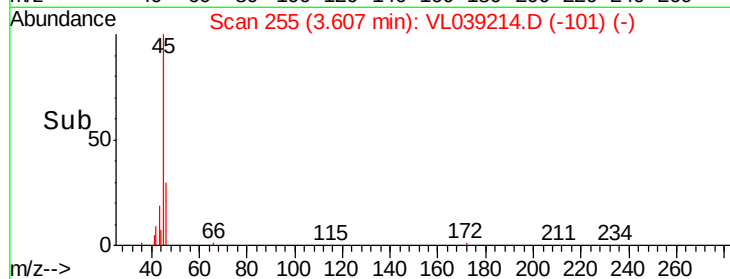
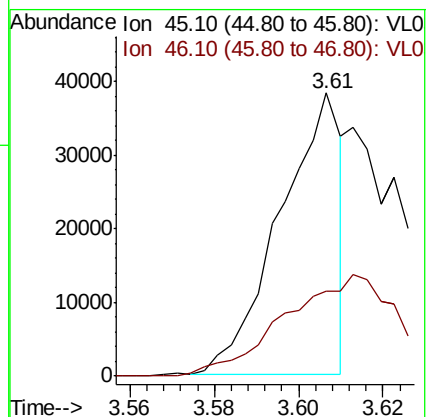
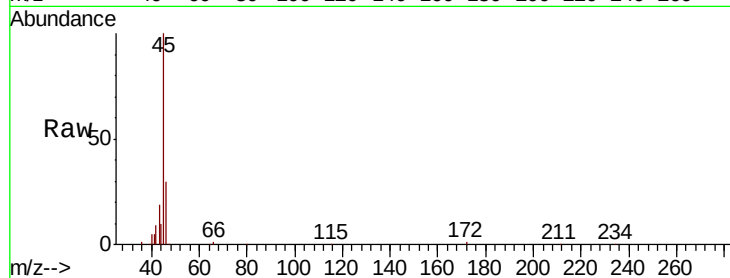
Acq: 7 Jun 2022 18:14

Tot Ion: 45 Resp: 38511

Ion Ratio Lower Upper

45 100

46 0.0 0.0 0.0



#15

Acetone

Concen: 0.921 ppbv

RT: 3.86 min Scan# 334

Delta R.T. 0.01 min

Lab File: VL039214.D

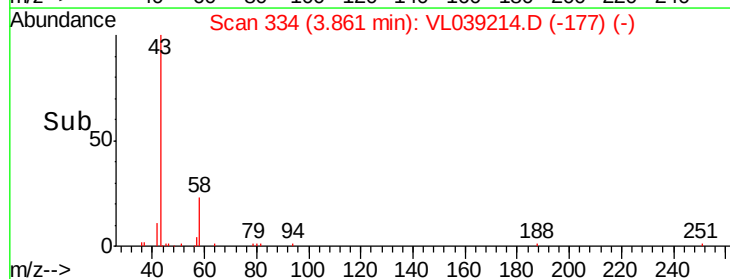
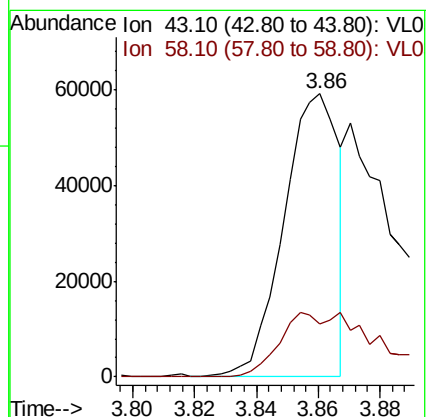
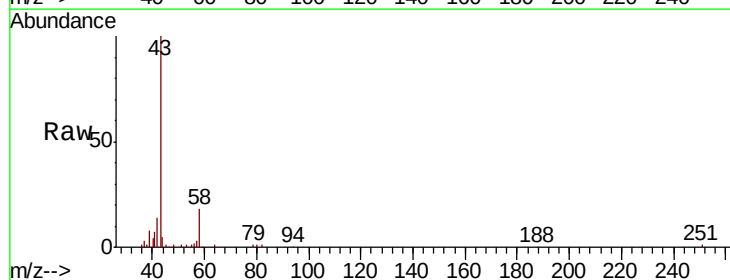
Acq: 7 Jun 2022 18:14

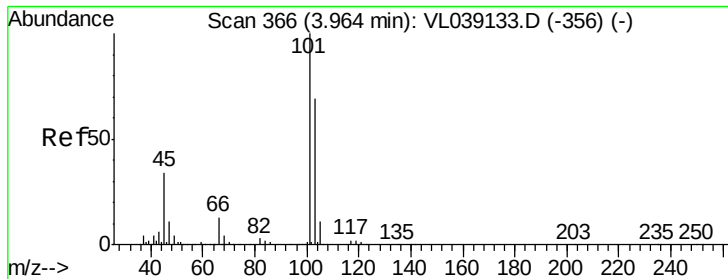
Tgt Ion: 43 Resp: 72738

Ion Ratio Lower Upper

43 100

58 0.0 22.5 33.7#





#19

Isopropyl Alcohol

Concen: 0.712 ppbv

RT: 3.98 min Scan# 371

Delta R.T. 0.02 min

Lab File: VL039214.D

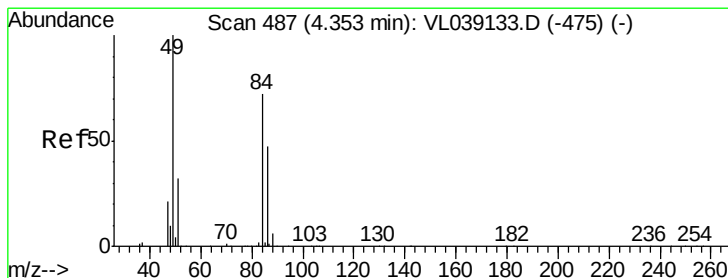
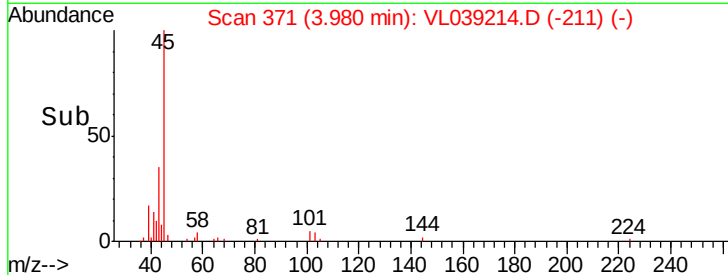
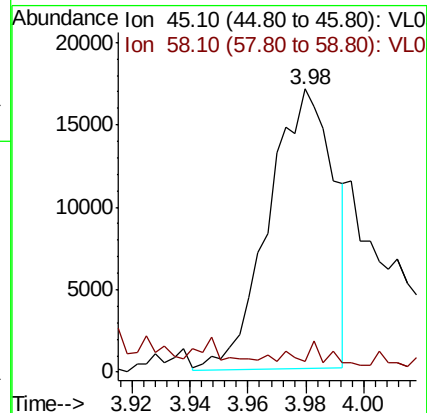
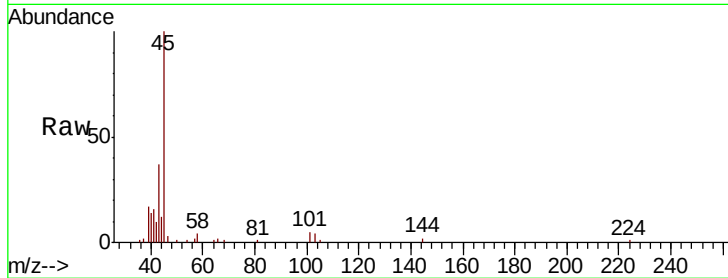
Acq: 7 Jun 2022 18:14

Tot Ion: 45 Resp: 26348

Ion Ratio Lower Upper

45 100

58 7.6 1.8 2.8#



#20

Methylene Chloride

Concen: 6.036 ppbv

RT: 4.35 min Scan# 486

Delta R.T. -0.00 min

Lab File: VL039214.D

Acq: 7 Jun 2022 18:14

Tgt Ion: 84 Resp: 200816

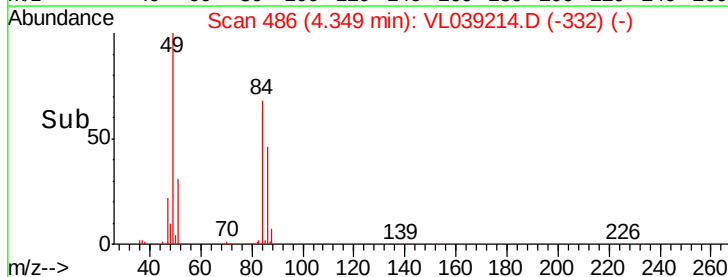
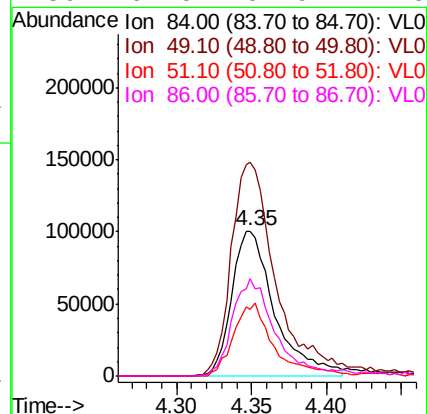
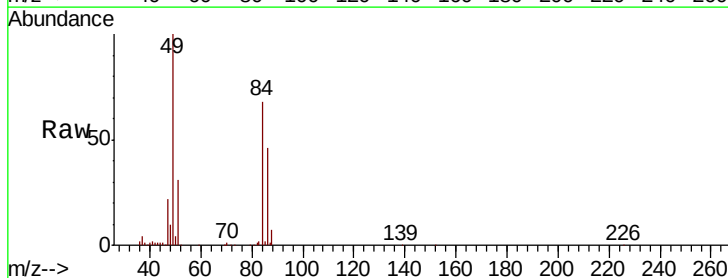
Ion Ratio Lower Upper

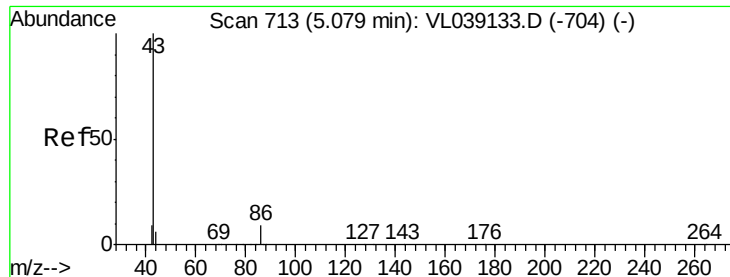
84 100

49 147.3 111.1 166.7

51 45.8 35.3 52.9

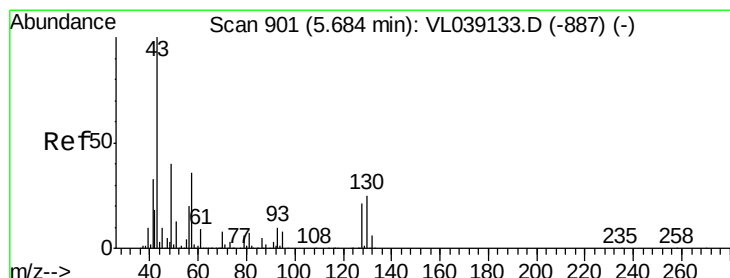
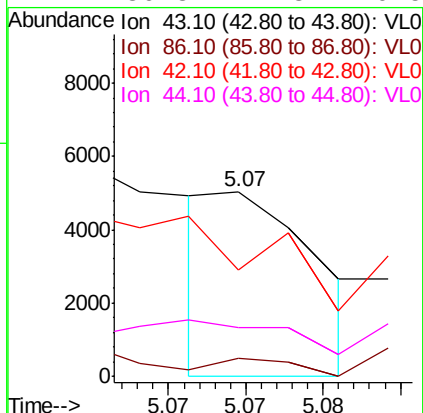
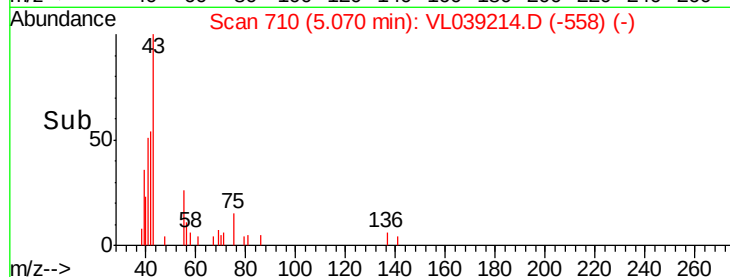
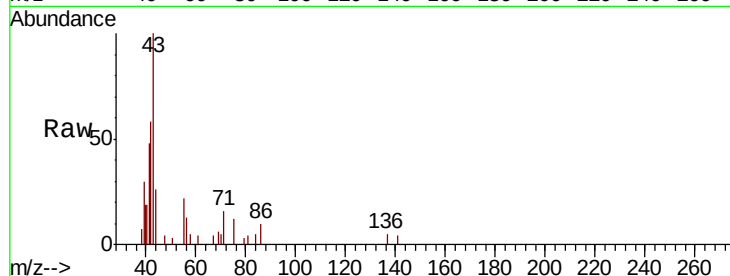
86 67.0 51.9 77.9





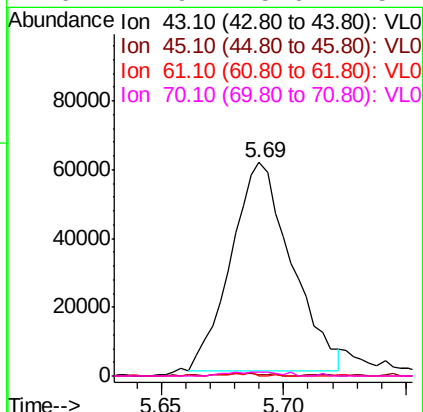
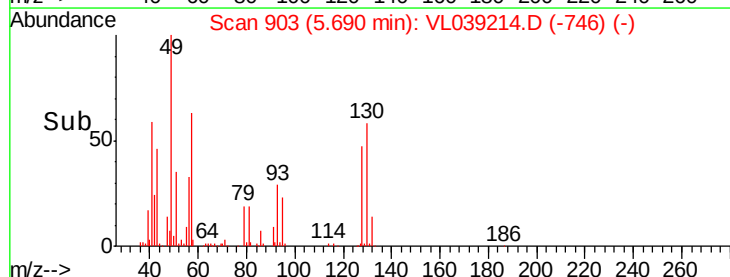
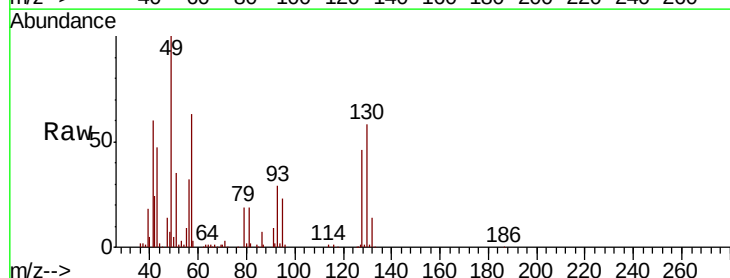
#23
 Vinyl Acetate
 Concen: 0.035 ppbv
 RT: 5.07 min Scan# 710
 Delta R.T. -0.01 min
 Lab File: VL039214.D
 Acq: 7 Jun 2022 18:14

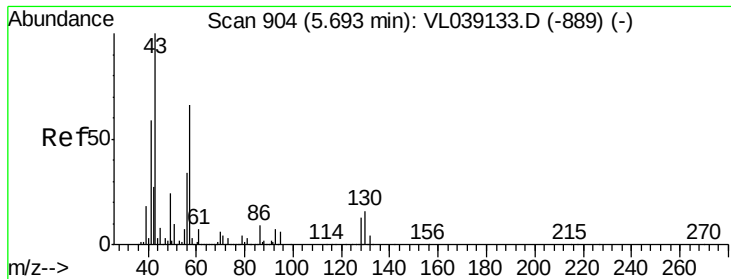
Tot Ion:	43	Resp:	2265
Ion	Ratio	Lower	Upper
43	100		
86	20.2	6.0	9.0#
42	47.0	8.2	12.4#
44	30.3	4.3	6.5#



#25
 Ethyl Acetate
 Concen: 0.587 ppbv
 RT: 5.69 min Scan# 903
 Delta R.T. 0.01 min
 Lab File: VL039214.D
 Acq: 7 Jun 2022 18:14

Tgt Ion:	43	Resp:	104434
Ion	Ratio	Lower	Upper
43	100		
45	1.0	8.2	12.2#
61	0.7	8.4	12.6#
70	1.9	5.6	8.4#





#26

Hexane

Concen: 2.044 ppbv

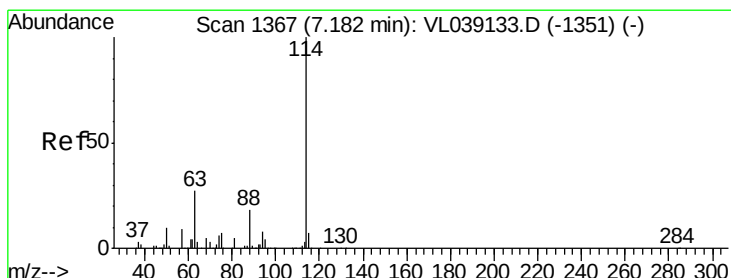
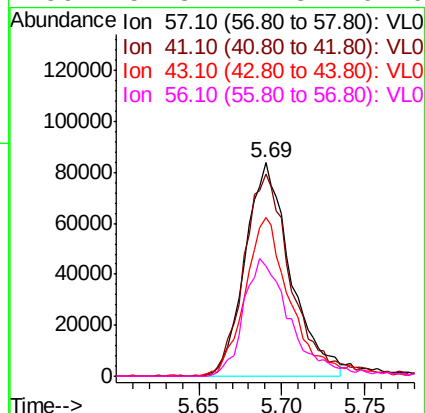
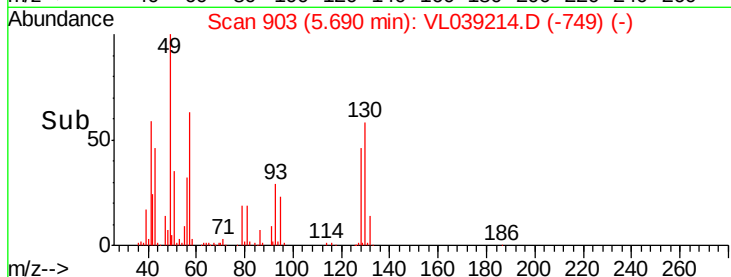
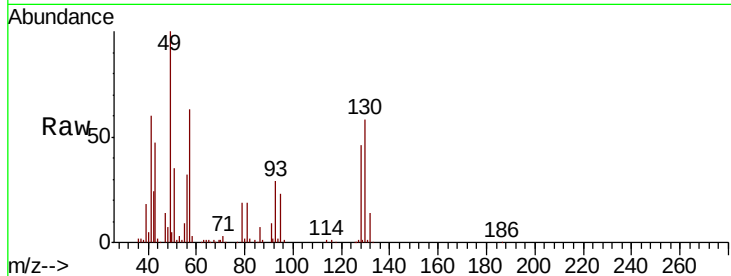
RT: 5.69 min Scan# 903

Delta R.T. -0.00 min

Lab File: VL039214.D

Acq: 7 Jun 2022 18:14

Tot Ion:	57	Resp:	159802
Ion	Ratio	Lower	Upper
57	100		
41	102.0	72.4	108.6
43	76.5	187.0	280.6#
56	57.3	41.8	62.6



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

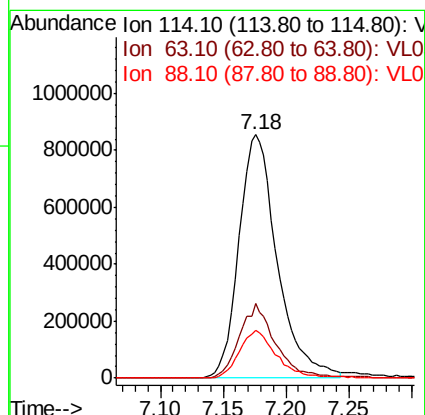
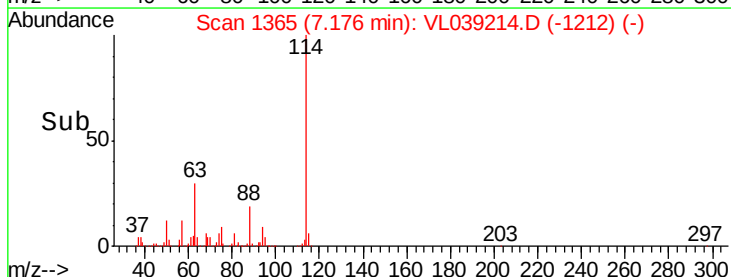
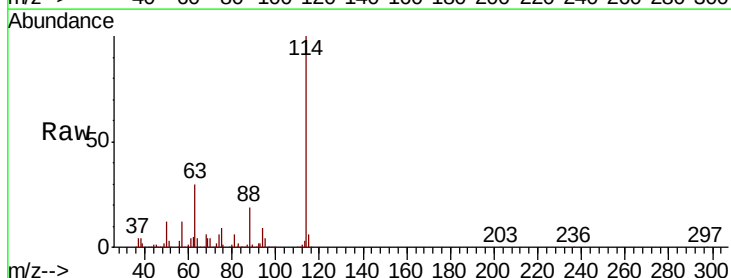
RT: 7.18 min Scan# 1365

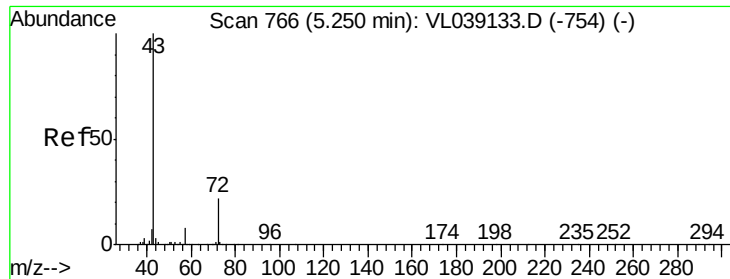
Delta R.T. -0.01 min

Lab File: VL039214.D

Acq: 7 Jun 2022 18:14

Tgt Ion:	114	Resp:	1819338
Ion	Ratio	Lower	Upper
114	100		
63	29.3	21.7	32.5
88	19.4	14.8	22.2





#34

2-Butanone

Concen: 0.039 ppbv

RT: 5.26 min Scan# 769

Delta R.T. 0.01 min

Lab File: VL039214.D

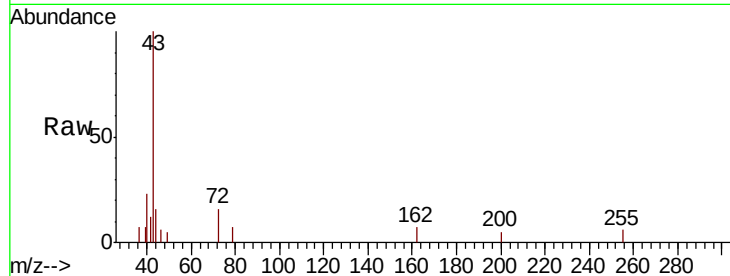
Acq: 7 Jun 2022 18:14

Tot Ion: 43 Resp: 3866

Ion Ratio Lower Upper

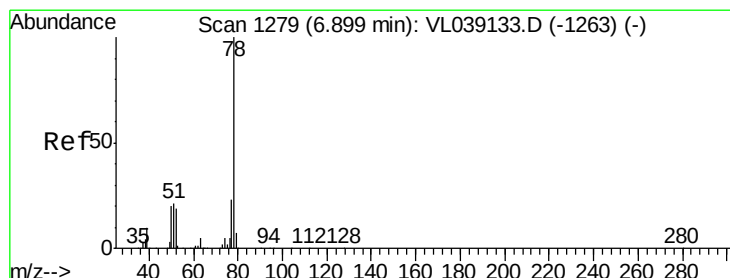
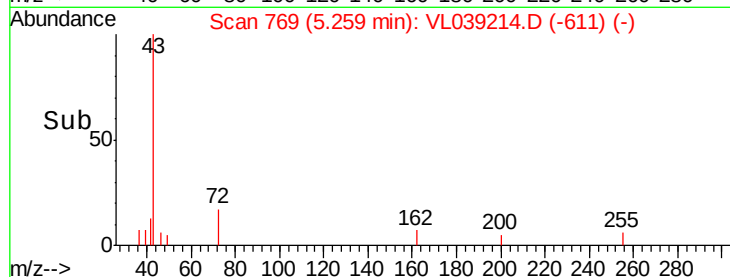
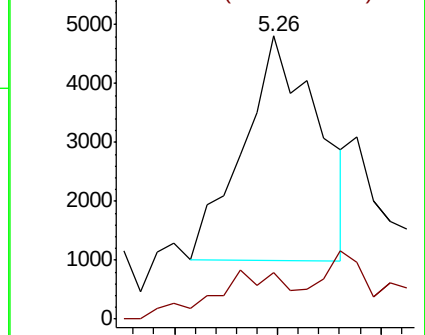
43 100

72 52.7 18.2 27.2#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0



#36

Benzene

Concen: 0.040 ppbv

RT: 6.90 min Scan# 1279

Delta R.T. -0.00 min

Lab File: VL039214.D

Acq: 7 Jun 2022 18:14

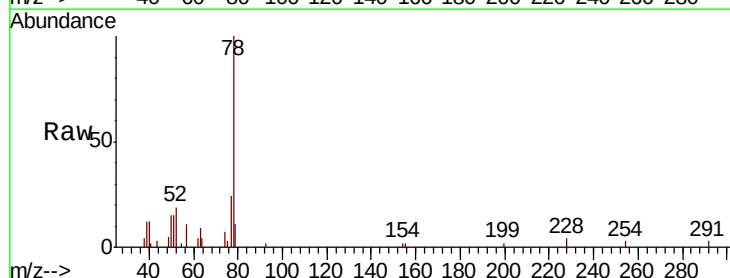
Tgt Ion: 78 Resp: 5889

Ion Ratio Lower Upper

78 100

77 24.8 18.6 27.8

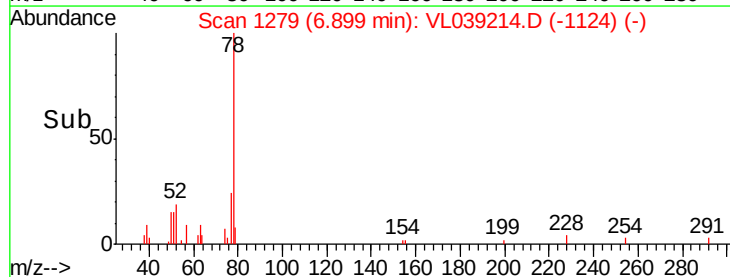
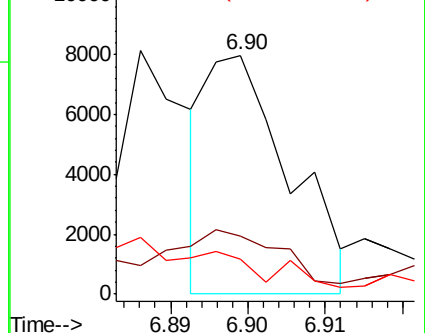
50 14.8 15.8 23.8#

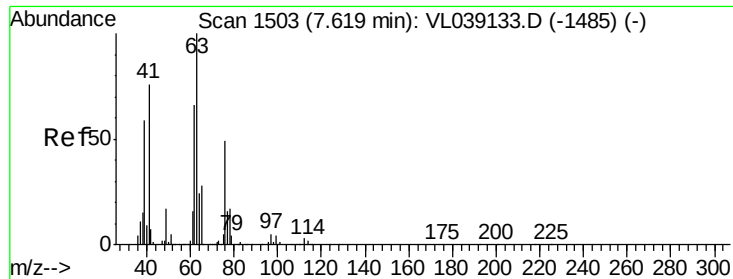


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#39

1,2-Dichloropropane

Concen: 8.804 ppbv

RT: 7.18 min Scan# 1365

Delta R.T. -0.44 min

Lab File: VL039214.D

Acq: 7 Jun 2022 18:14

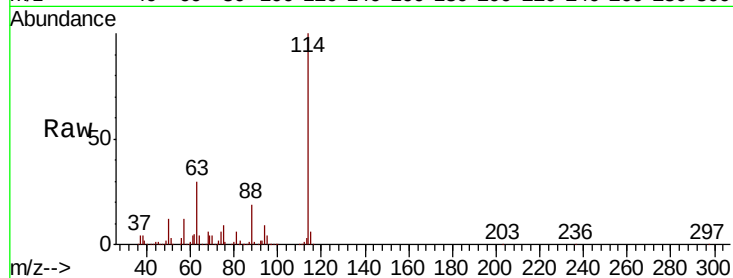
Tot Ion: 63 Resp: 517246

Ion Ratio Lower Upper

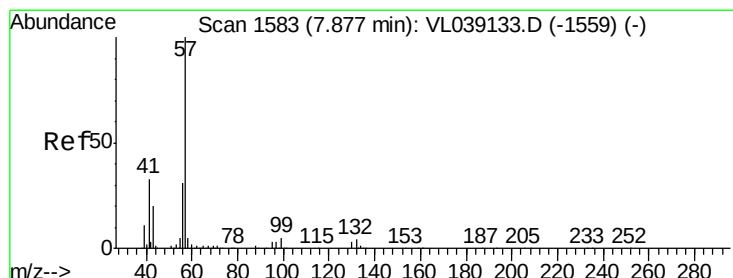
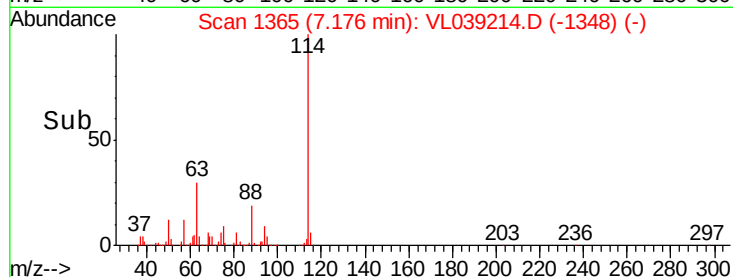
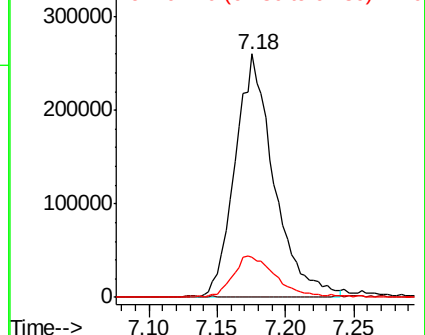
63 100

41 0.0 60.8 91.2#

62 16.2 52.9 79.3#



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



#44

2,2,4-Trimethylpentane

Concen: 0.050 ppbv

RT: 7.87 min Scan# 1581

Delta R.T. -0.01 min

Lab File: VL039214.D

Acq: 7 Jun 2022 18:14

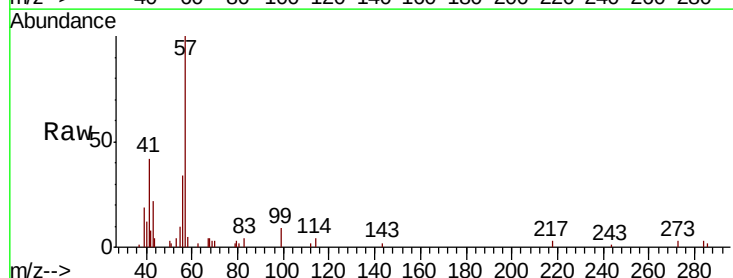
Tgt Ion: 57 Resp: 12897

Ion Ratio Lower Upper

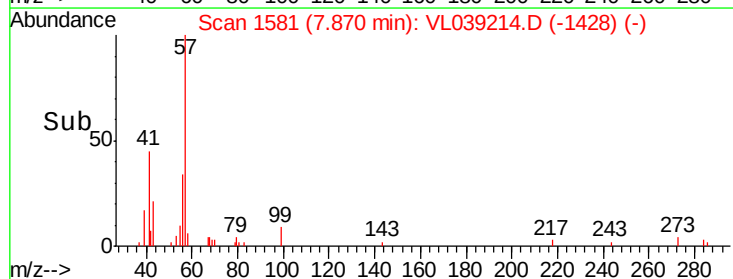
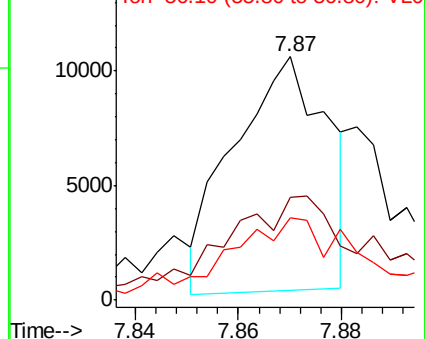
57 100

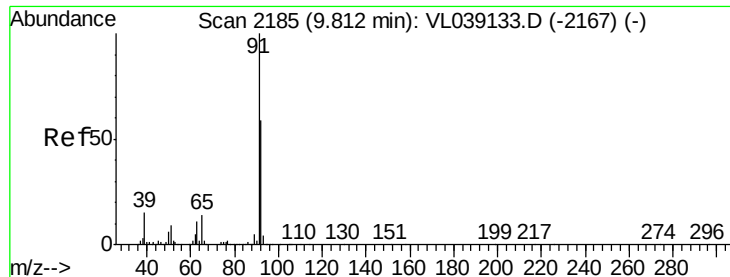
41 84.7 26.2 39.4#

56 66.6 24.7 37.1#



Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 56.10 (55.80 to 56.80): VL0





#53

Toluene

Concen: 0.055 ppbv

RT: 9.80 min Scan# 2182

Delta R.T. -0.01 min

Lab File: VL039214.D

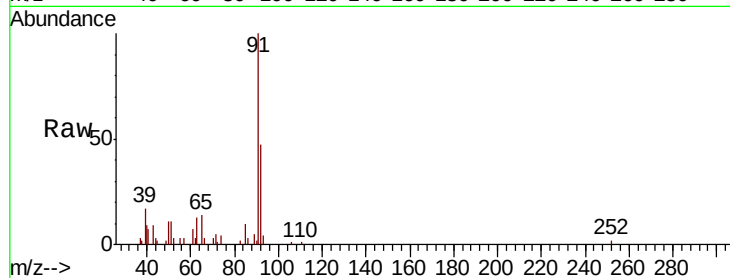
Acq: 7 Jun 2022 18:14

Tot Ion: 91 Resp: 9309

Ion Ratio Lower Upper

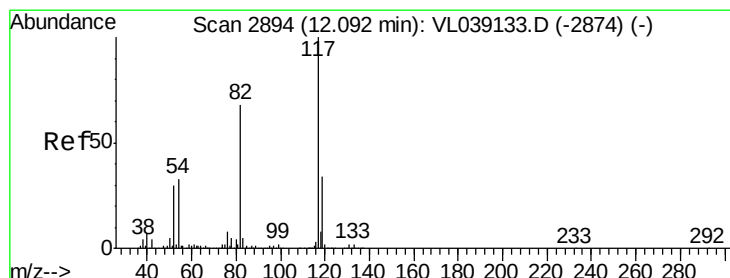
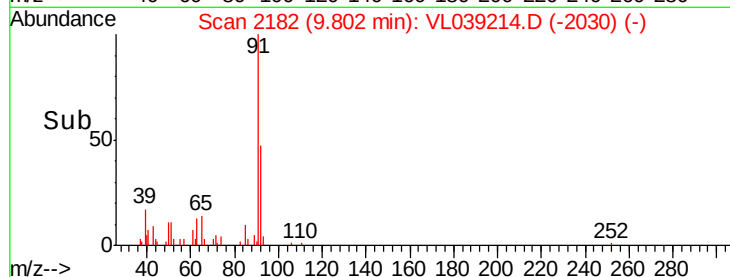
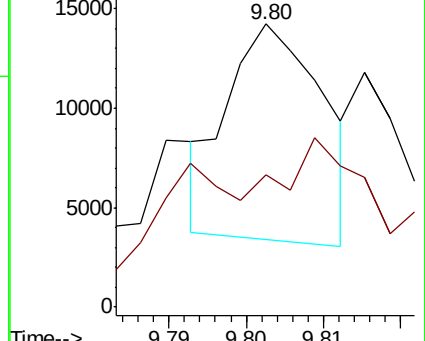
91 100

92 0.0 48.1 72.1#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2891

Delta R.T. -0.01 min

Lab File: VL039214.D

Acq: 7 Jun 2022 18:14

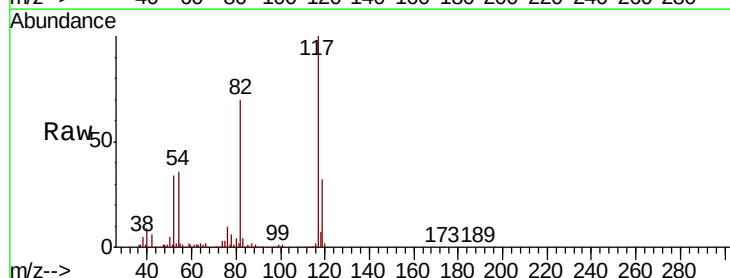
Tgt Ion: 117 Resp: 1532253

Ion Ratio Lower Upper

117 100

82 75.3 55.1 82.7

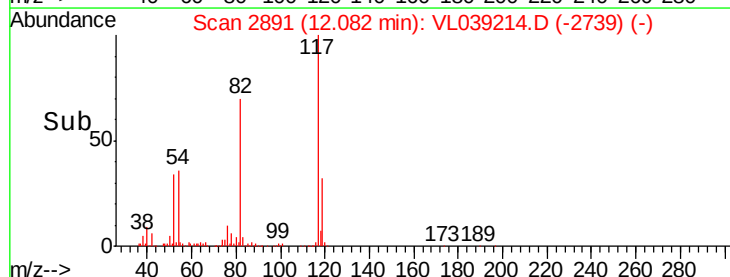
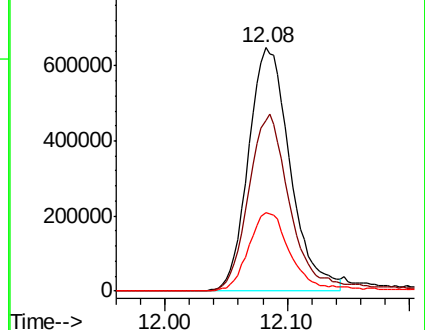
119 33.6 24.7 37.1

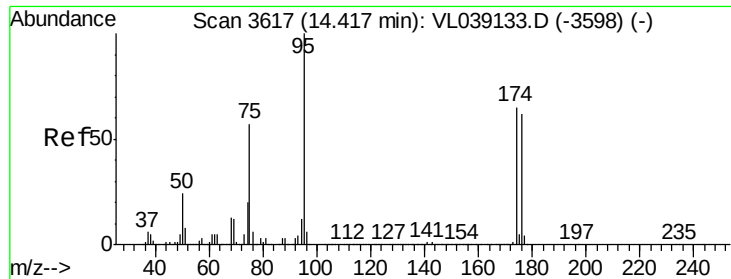


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

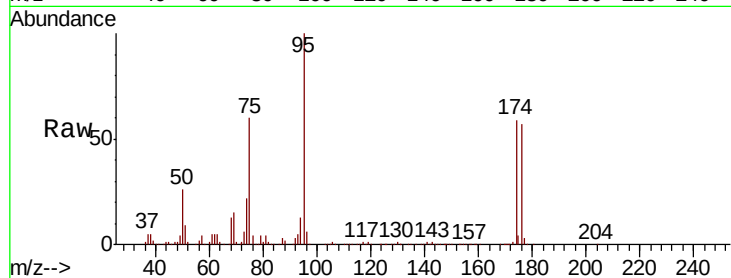
Ion 119.10 (118.80 to 119.80): V





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.445 ppbv
 RT: 14.41 min Scan# 3616
 Delta R.T. -0.00 min
 Lab File: VL039214.D
 Acq: 7 Jun 2022 18:14

Tot Ion: 95 Resp: 1323111
 Ion Ratio Lower Upper
 95 100
 174 62.1 53.8 80.8
 175 4.6 4.1 6.1



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

