

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060722\
 Data File : VL039224.D
 Acq On : 8 Jun 2022 00:54
 Operator : SY/AP
 Sample : N3214-13 0.03 LOD
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 08 05:03:18 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	574770	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	1395028	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	1126826	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	1029193	11.05	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	110.50%

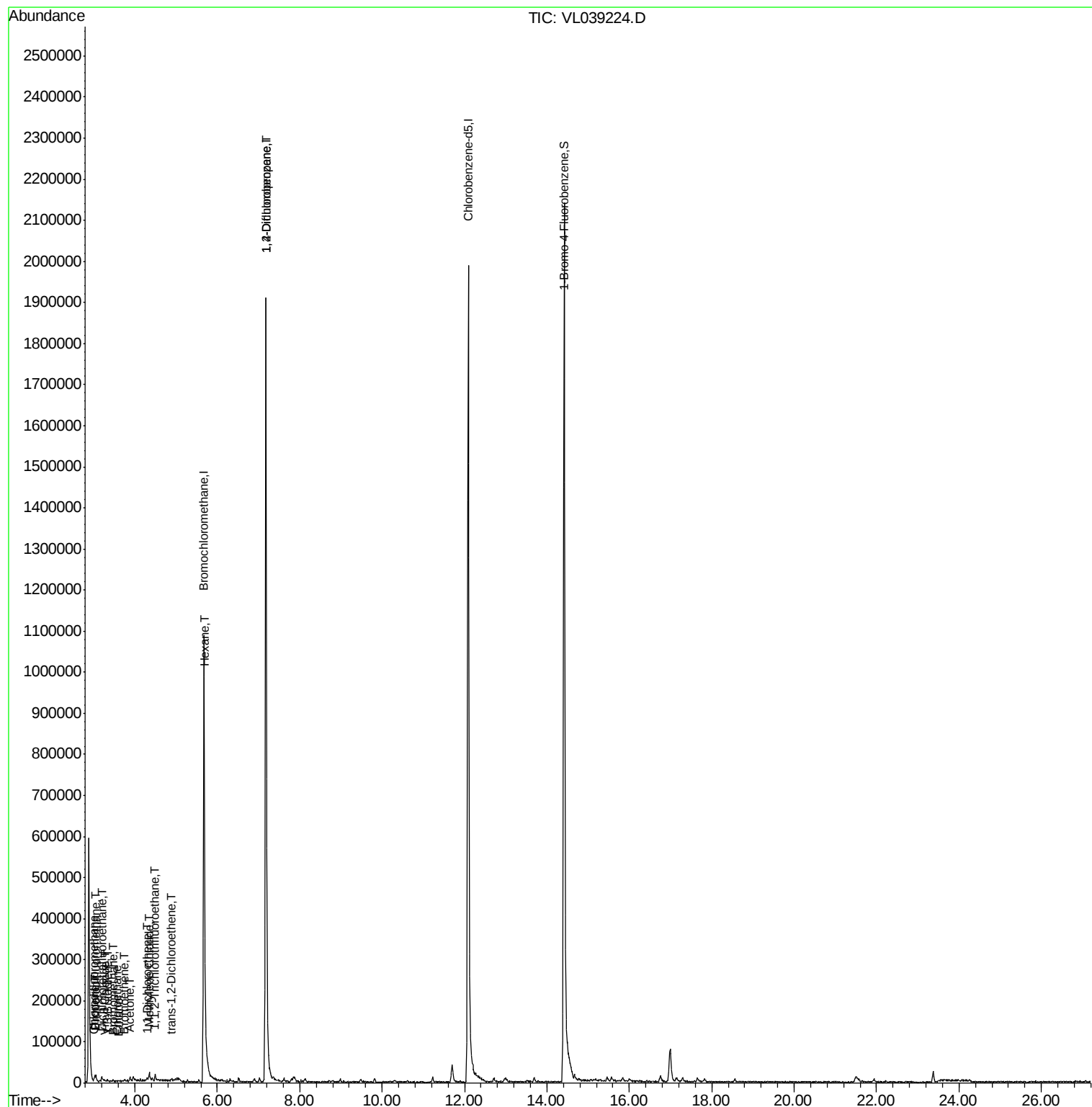
Target Compounds

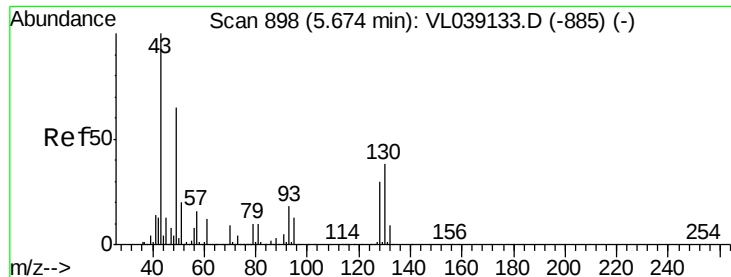
					Ovalue
2) Dichlorodifluoromethane	3.06	85	7005	0.069 ppbv #	87
3) Chlorodifluoromethane	2.99	51	4424	0.060 ppbv	100
5) Vinyl Chloride	3.27	62	1180	0.034 ppbv #	73
6) Bromomethane	3.47	94	642	0.037 ppbv #	40
7) Chloroethane	3.57	64	377	0.031 ppbv #	45
8) Dichlorotetrafluoroethane	3.19	85	4950	0.054 ppbv #	68
9) Propene	3.02	41	4244	0.133 ppbv #	71
12) 1,1,2-Trichlorotrifluoroet	4.50	101	1869	0.031 ppbv #	1
13) Ethanol	3.61	45	102	0.059 ppbv #	100
14) Bromoethene	3.75	108	882	0.032 ppbv #	1
15) Acetone	3.88	43	6101	0.102 ppbv #	47
16) 1,3-Butadiene	3.34	39	1424	0.044 ppbv #	62
18) 1,1-Dichloroethene	4.29	96	1707	0.063 ppbv #	57
20) Methylene Chloride	4.35	84	4408	0.175 ppbv #	66
22) trans-1,2-Dichloroethene	4.89	96	1232	0.047 ppbv #	34
26) Hexane	5.69	57	2158	0.036 ppbv #	20
39) 1,2-Dichloropropane	7.18	63	412037	9.146 ppbv #	25

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

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 898

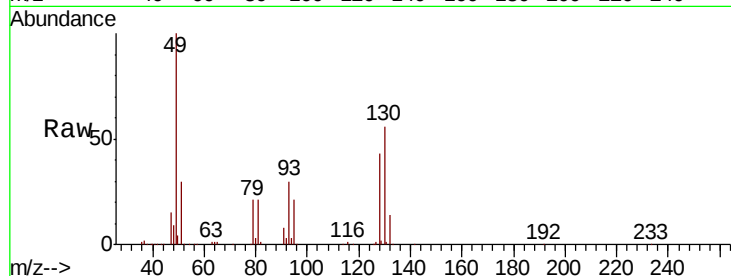
Delta R.T. -0.00 min

Lab File: VL039224.D

Acq: 8 Jun 2022 00:54

Tot Ion: 49 Resp: 574770

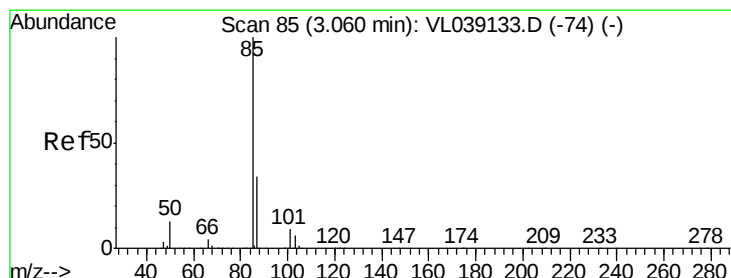
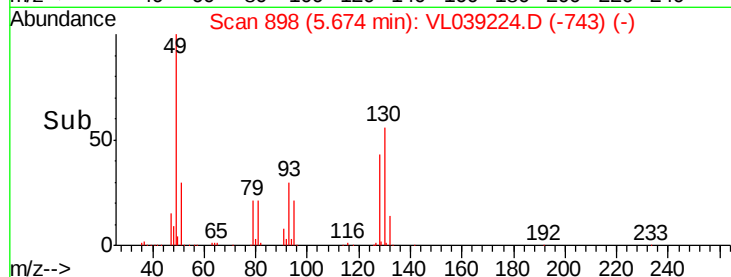
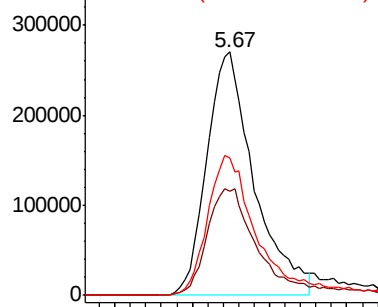
Ion	Ratio	Lower	Upper
49	100		
128	49.4	24.7	74.1
130	61.8	31.4	94.0



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



#2

Dichlorodifluoromethane

Concen: 0.069 ppbv

RT: 3.06 min Scan# 84

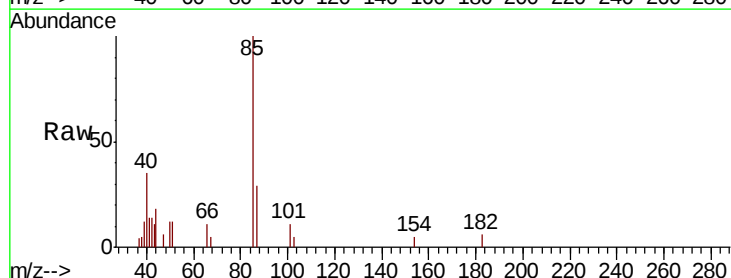
Delta R.T. -0.00 min

Lab File: VL039224.D

Acq: 8 Jun 2022 00:54

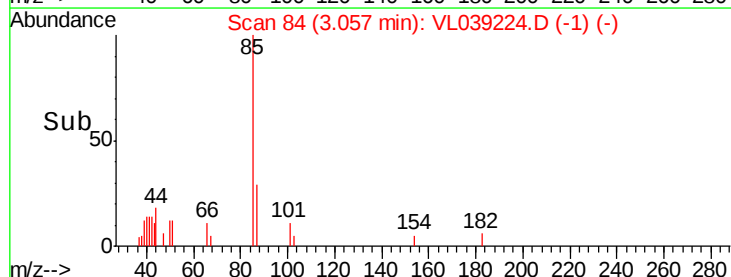
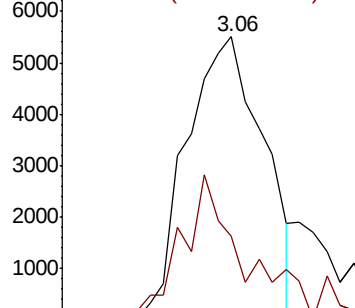
Tgt Ion: 85 Resp: 7005

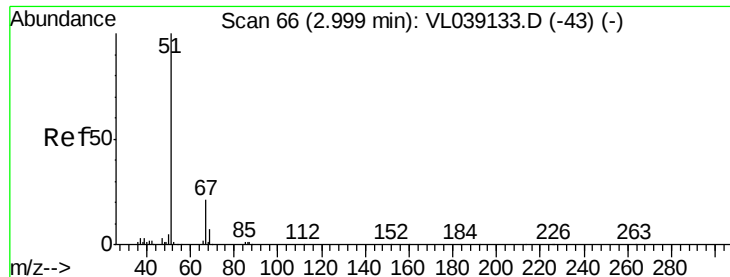
Ion	Ratio	Lower	Upper
85	100		
87	26.5	26.9	40.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.060 ppbv

RT: 2.99 min Scan# 64

Delta R.T. -0.01 min

Lab File: VL039224.D

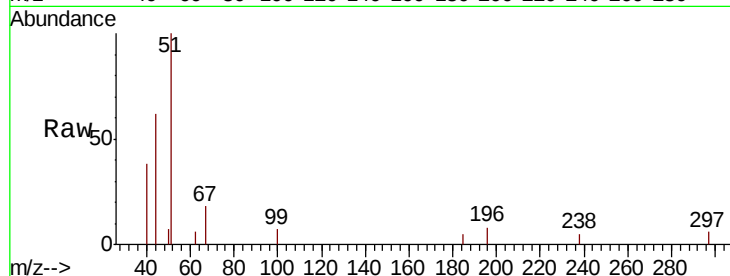
Acq: 8 Jun 2022 00:54

Tot Ion: 51 Resp: 4424

Ion Ratio Lower Upper

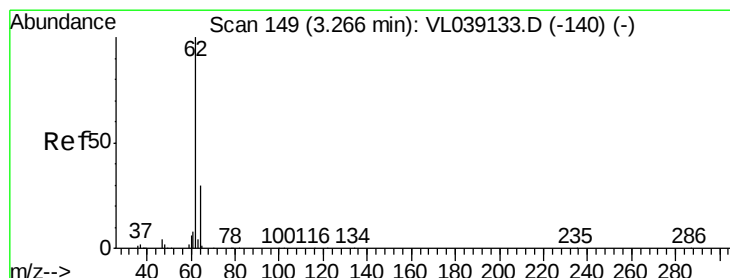
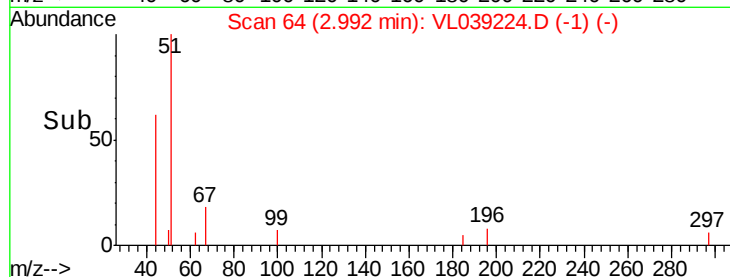
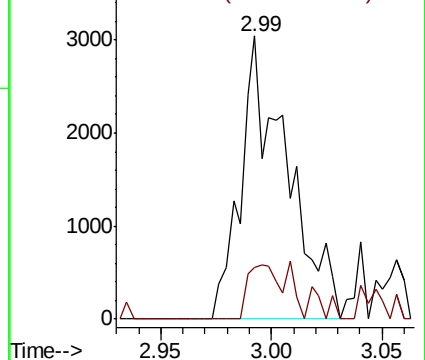
51 100

67 20.2 16.2 24.4



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#5

Vinyl Chloride

Concen: 0.034 ppbv

RT: 3.27 min Scan# 149

Delta R.T. -0.00 min

Lab File: VL039224.D

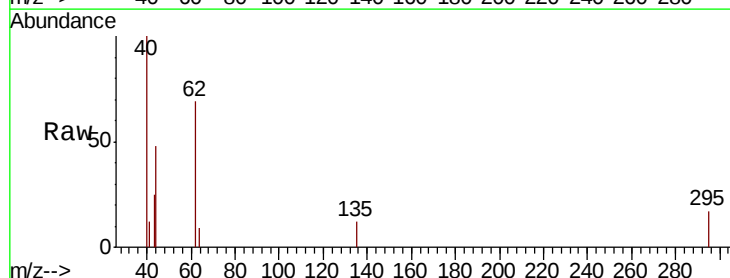
Acq: 8 Jun 2022 00:54

Tgt Ion: 62 Resp: 1180

Ion Ratio Lower Upper

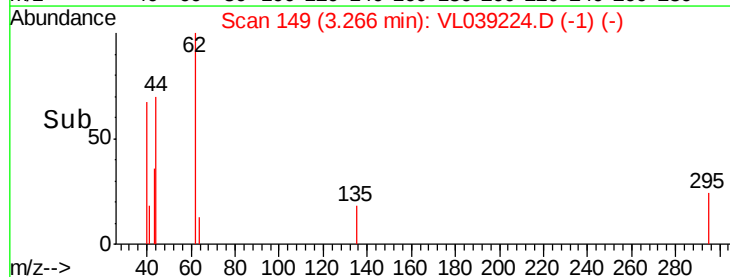
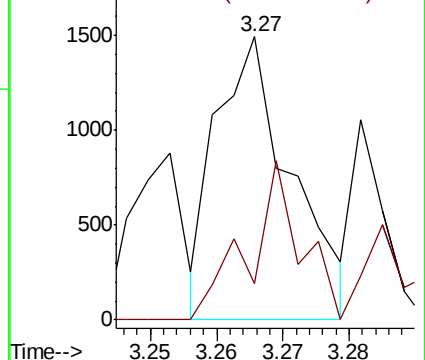
62 100

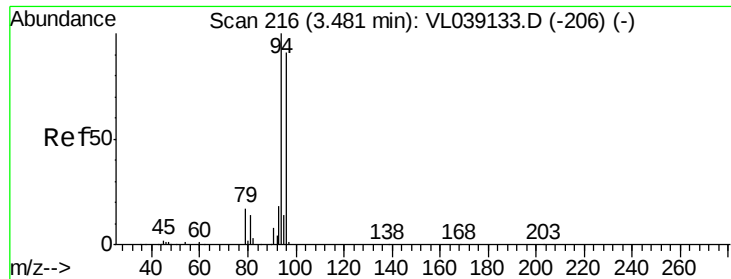
64 15.4 24.2 36.2#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0





#6

Bromomethane

Concen: 0.037 ppbv

RT: 3.47 min Scan# 214

Delta R.T. -0.01 min

Lab File: VL039224.D

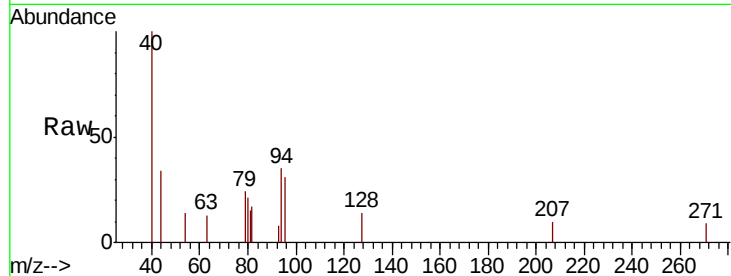
Acq: 8 Jun 2022 00:54

Tot Ion: 94 Resp: 642

Ion Ratio Lower Upper

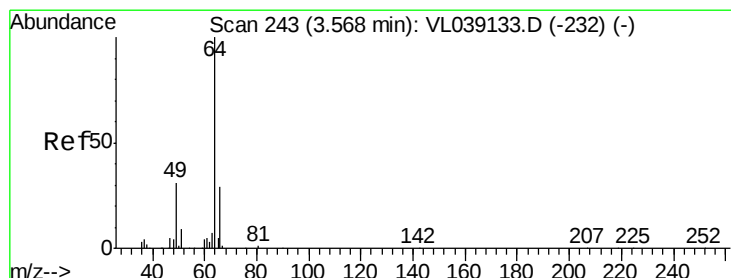
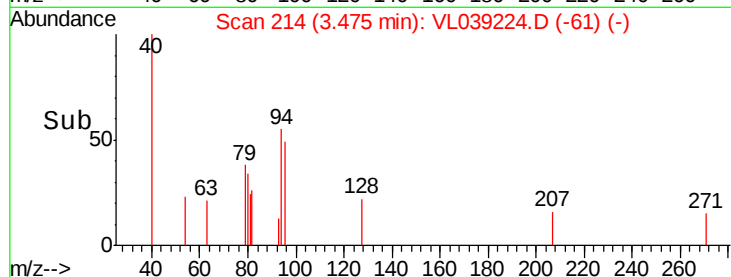
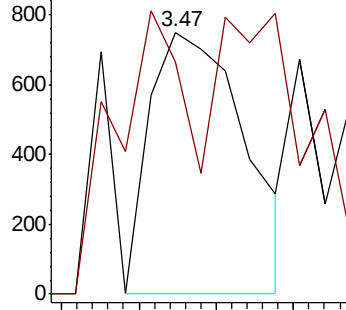
94 100

96 34.4 73.0 109.4#



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0



#7

Chloroethane

Concen: 0.031 ppbv

RT: 3.57 min Scan# 243

Delta R.T. -0.00 min

Lab File: VL039224.D

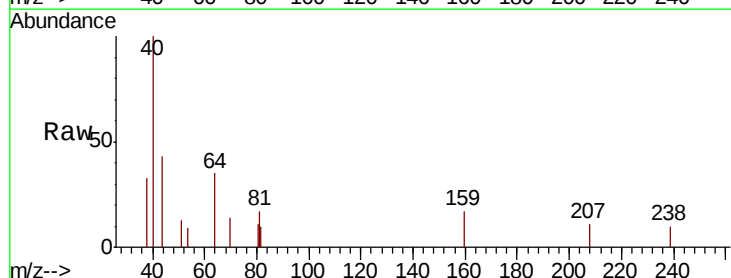
Acq: 8 Jun 2022 00:54

Tgt Ion: 64 Resp: 377

Ion Ratio Lower Upper

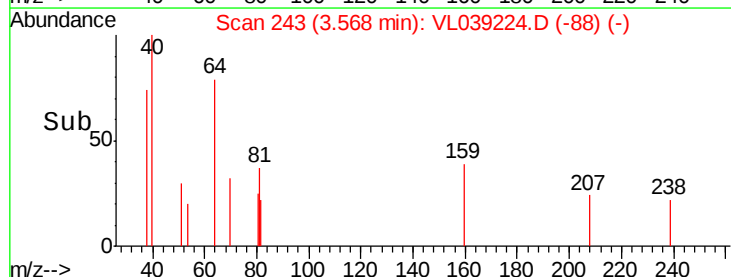
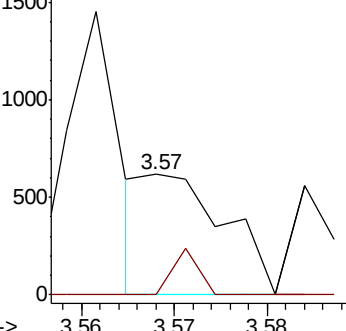
64 100

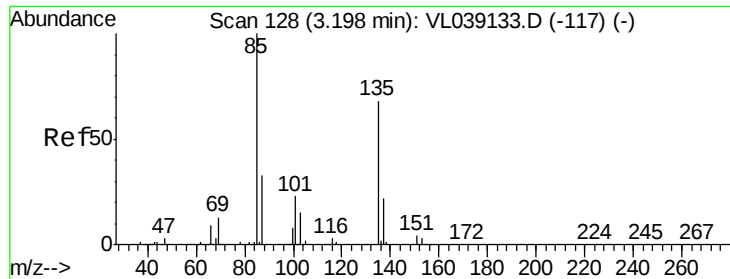
66 0.0 23.6 35.4#



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0





#8

Dichlorotetrafluoroethane

Concen: 0.054 ppbv

RT: 3.19 min Scan# 125

Delta R.T. -0.01 min

Lab File: VL039224.D

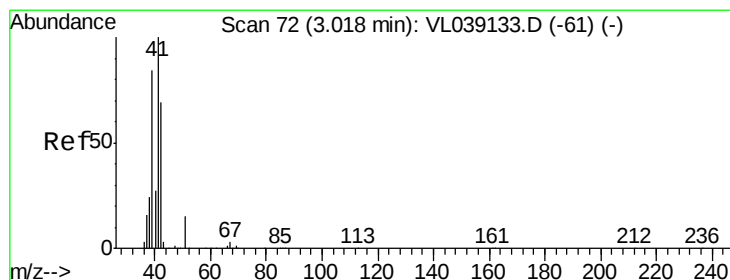
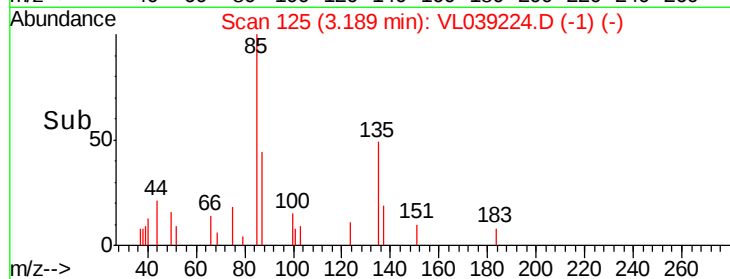
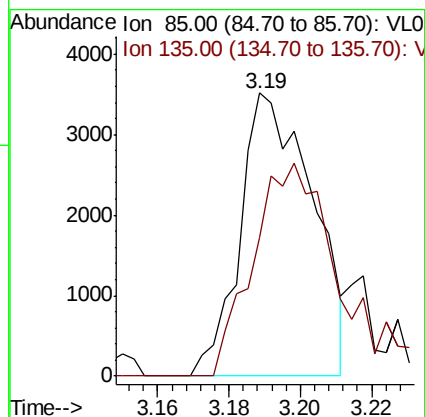
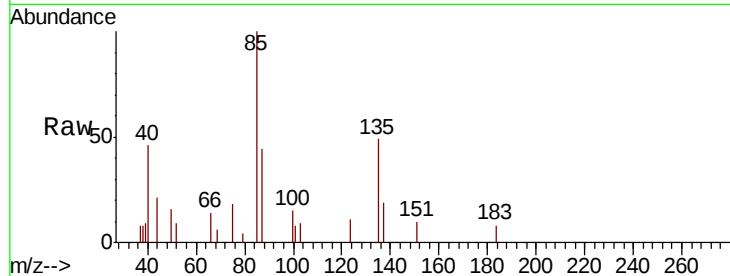
Acq: 8 Jun 2022 00:54

Tot Ion: 85 Resp: 4950

Ion Ratio Lower Upper

85 100

135 95.1 55.0 82.4#



#9

Propene

Concen: 0.133 ppbv

RT: 3.02 min Scan# 74

Delta R.T. 0.01 min

Lab File: VL039224.D

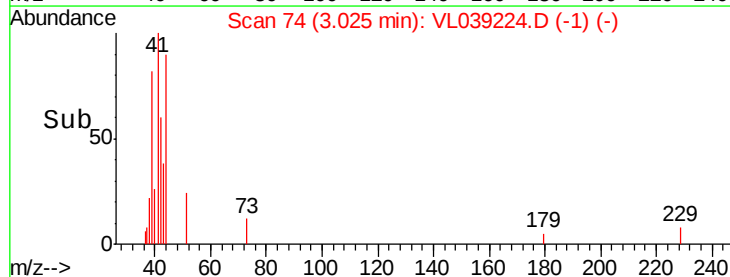
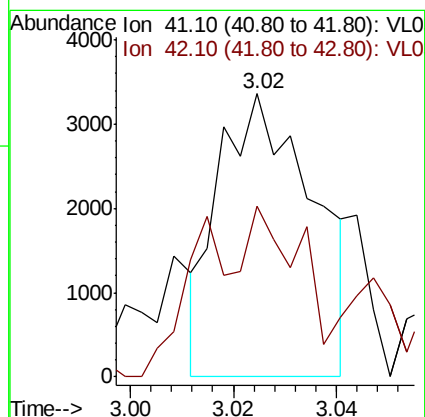
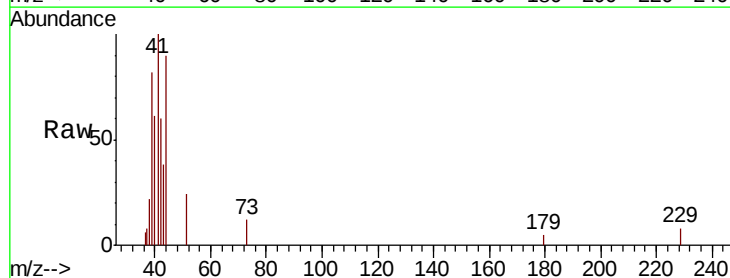
Acq: 8 Jun 2022 00:54

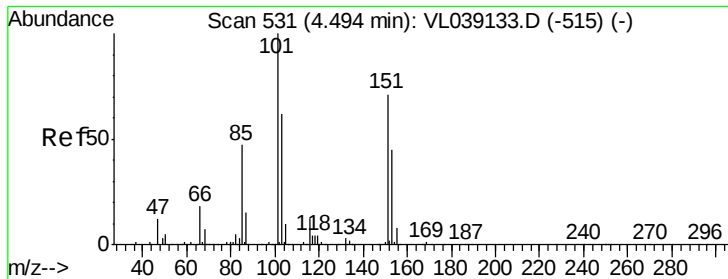
Tgt Ion: 41 Resp: 4244

Ion Ratio Lower Upper

41 100

42 92.7 55.4 83.2#





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.031 ppbv

RT: 4.50 min Scan# 532

Delta R.T. 0.00 min

Lab File: VL039224.D

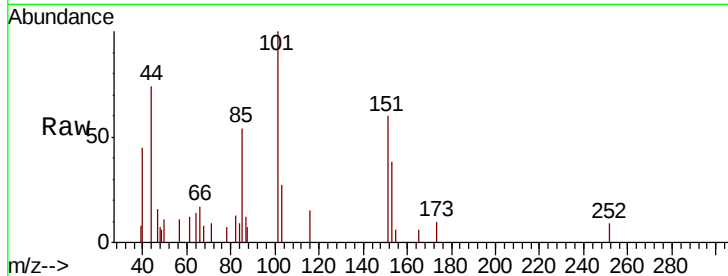
Acq: 8 Jun 2022 00:54

Tot Ion: 101 Resp: 1869

Ion Ratio Lower Upper

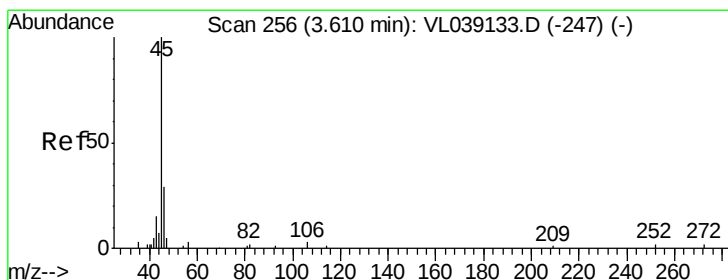
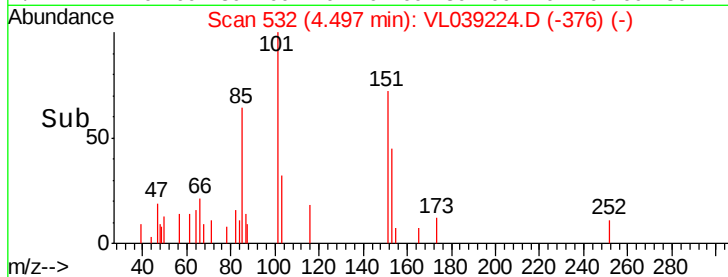
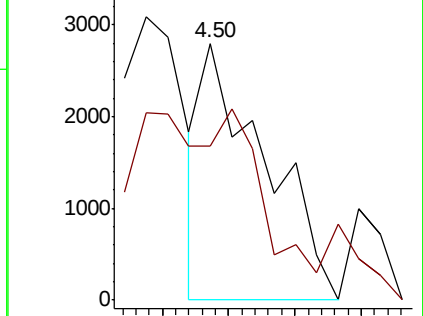
101 100

151 207.0 59.4 89.0#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 0.059 ppbv

RT: 3.61 min Scan# 255

Delta R.T. -0.00 min

Lab File: VL039224.D

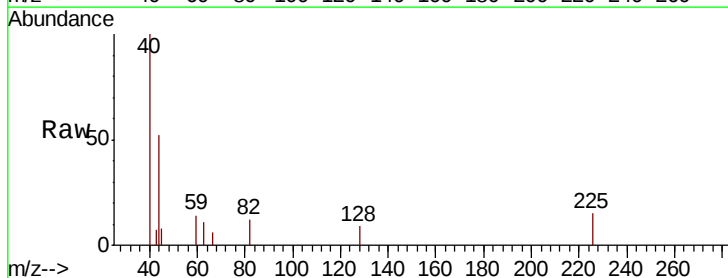
Acq: 8 Jun 2022 00:54

Tgt Ion: 45 Resp: 102

Ion Ratio Lower Upper

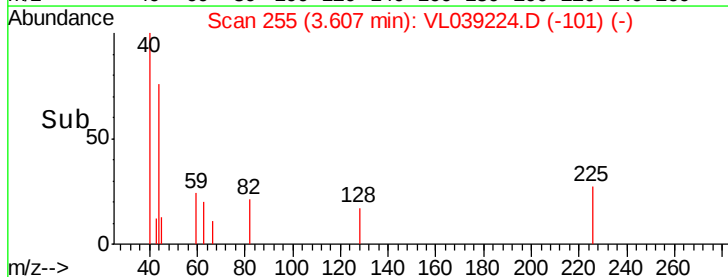
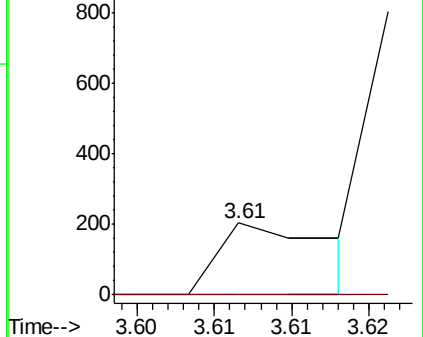
45 100

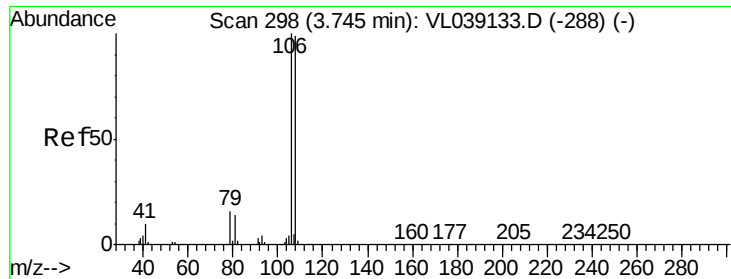
46 0.0 0.0 0.0



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#14

Bromoethene

Concen: 0.032 ppbv

RT: 3.75 min Scan# 299

Delta R.T. 0.00 min

Lab File: VL039224.D

Acq: 8 Jun 2022 00:54

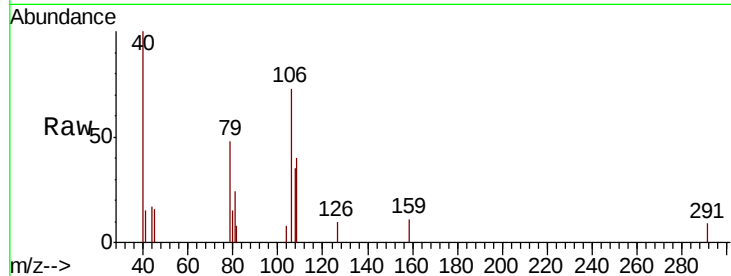
Tot Ion:108 Resp: 882

Ion Ratio Lower Upper

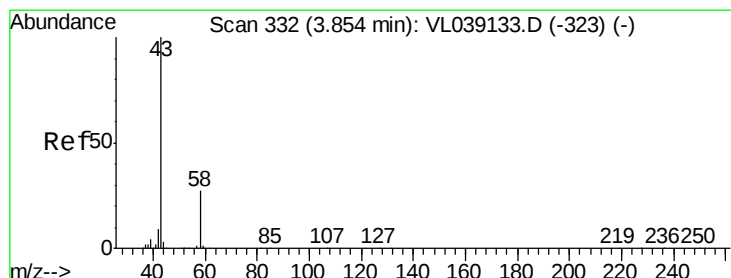
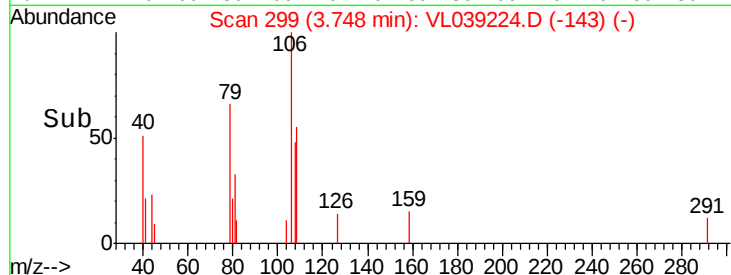
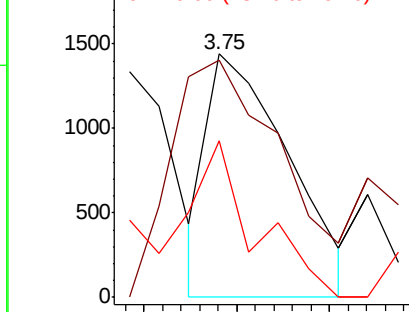
108 100

106 216.0 88.4 132.6#

79 141.6 13.4 20.2#



Abundance Ion 108.00 (107.70 to 108.70): V
Ion 106.00 (105.70 to 106.70): V
Ion 79.00 (78.70 to 79.70): V



#15

Acetone

Concen: 0.102 ppbv

RT: 3.88 min Scan# 340

Delta R.T. 0.03 min

Lab File: VL039224.D

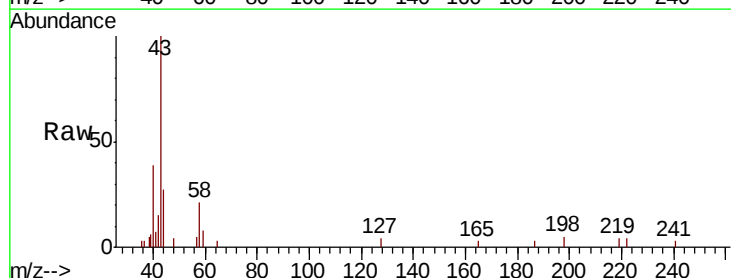
Acq: 8 Jun 2022 00:54

Tgt Ion: 43 Resp: 6101

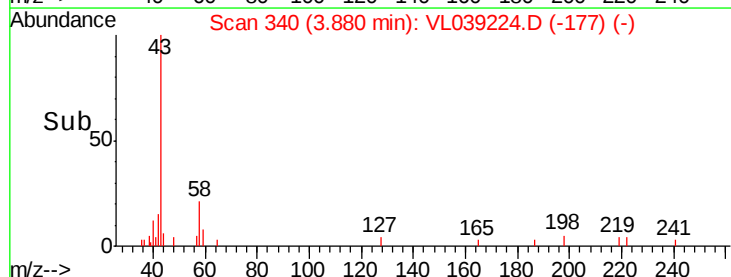
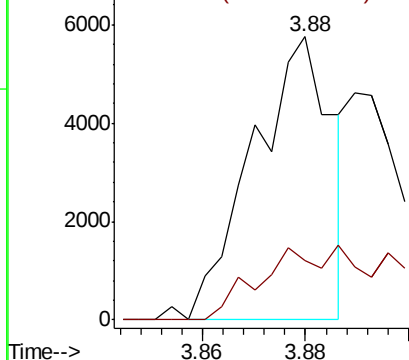
Ion Ratio Lower Upper

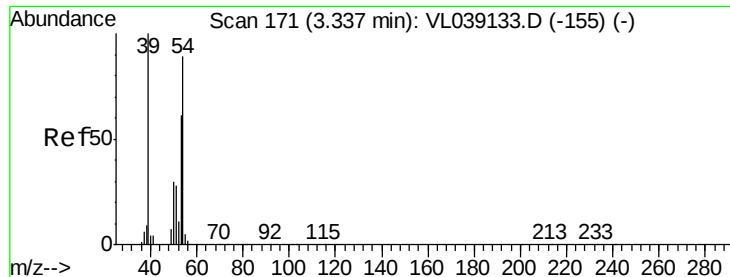
43 100

58 0.0 22.5 33.7#



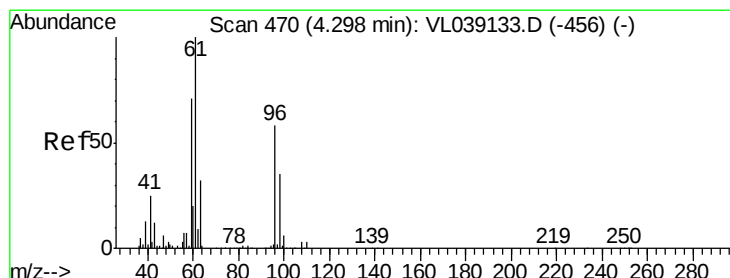
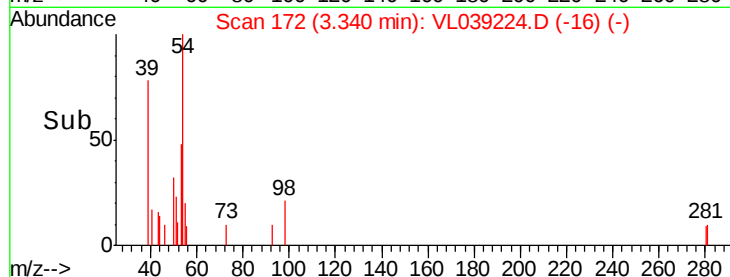
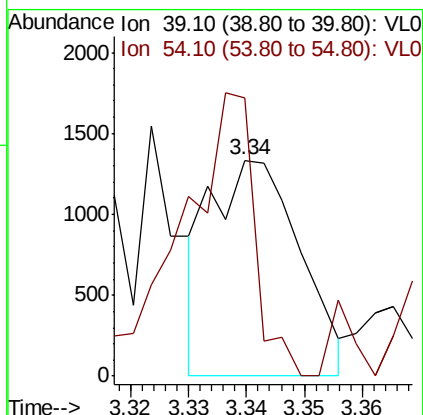
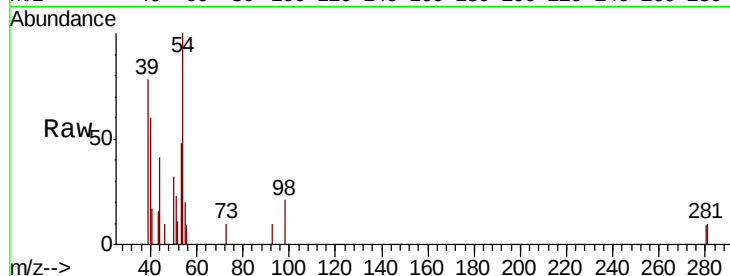
Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0





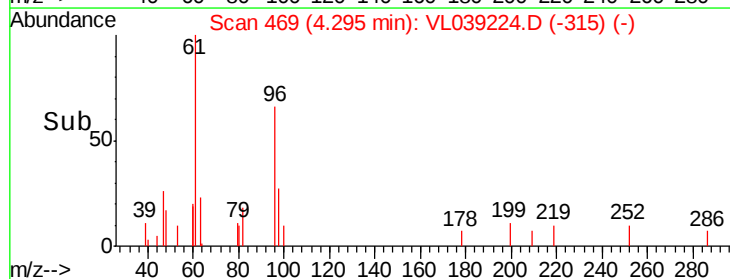
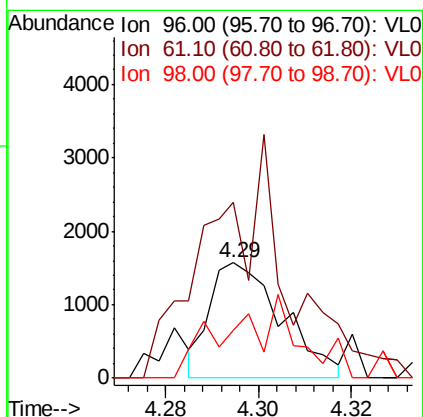
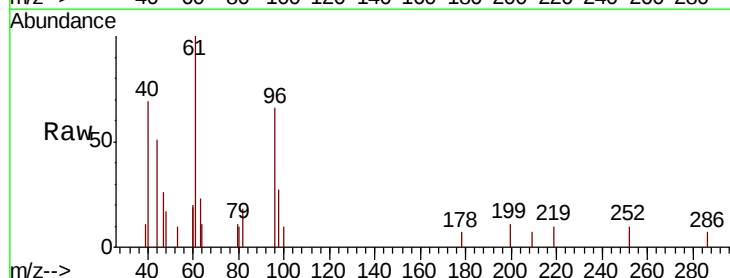
#16
1,3-Butadiene
Concen: 0.044 ppbv
RT: 3.34 min Scan# 172
Delta R.T. 0.00 min
Lab File: VL039224.D
Acq: 8 Jun 2022 00:54

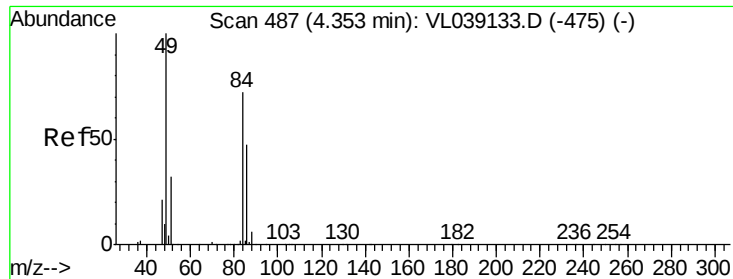
Tot Ion: 39 Resp: 1424
Ion Ratio Lower Upper
39 100
54 116.2 65.8 98.6#



#18
1,1-Dichloroethene
Concen: 0.063 ppbv
RT: 4.29 min Scan# 469
Delta R.T. -0.00 min
Lab File: VL039224.D
Acq: 8 Jun 2022 00:54

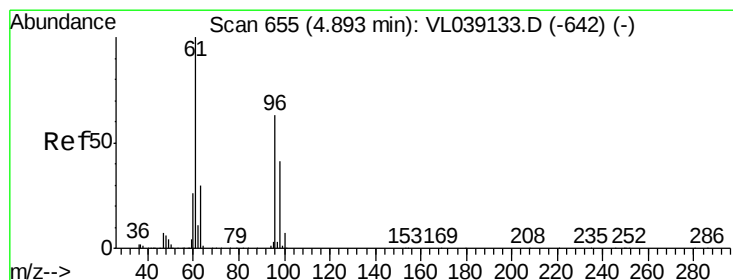
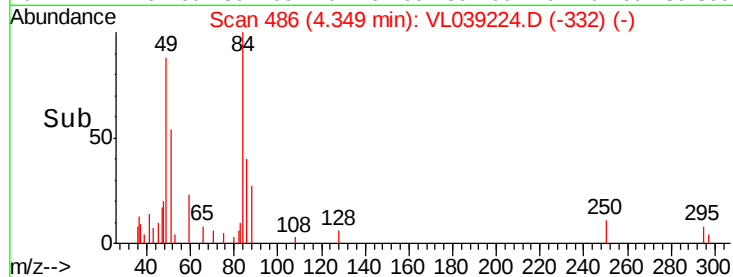
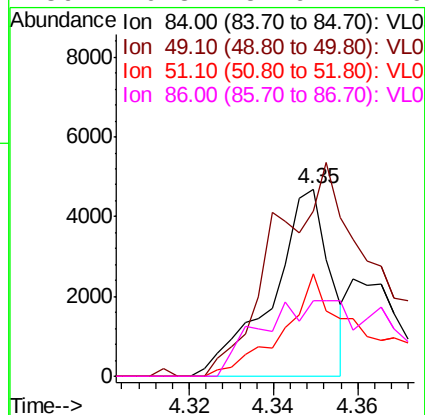
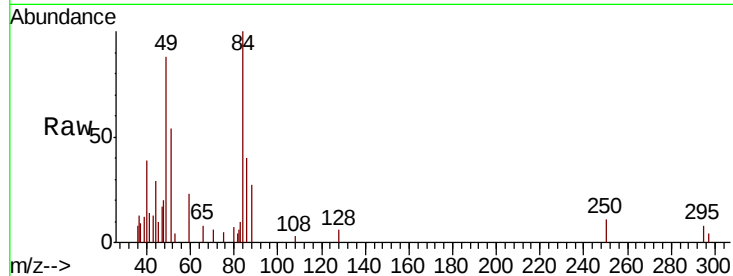
Tgt Ion: 96 Resp: 1707
Ion Ratio Lower Upper
96 100
61 118.8 138.4 207.6#
98 19.0 47.8 71.8#





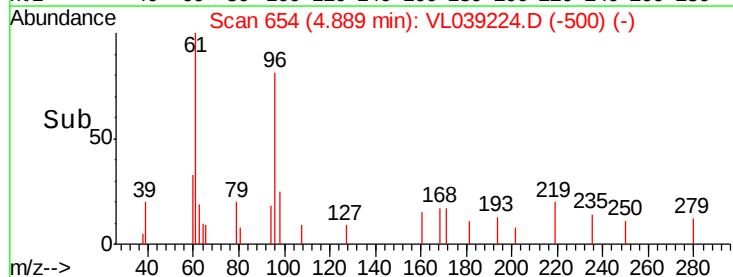
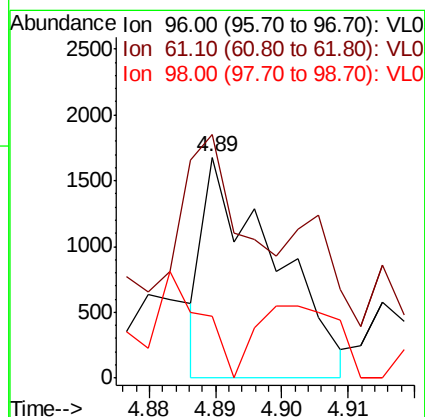
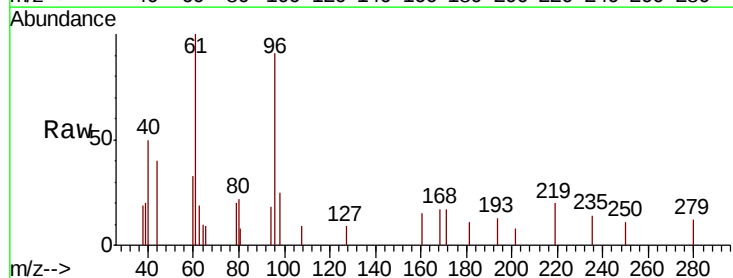
#20
Methvlene Chloride
Concen: 0.175 ppbv
RT: 4.35 min Scan# 486
Delta R.T. -0.00 min
Lab File: VL039224.D
Acq: 8 Jun 2022 00:54

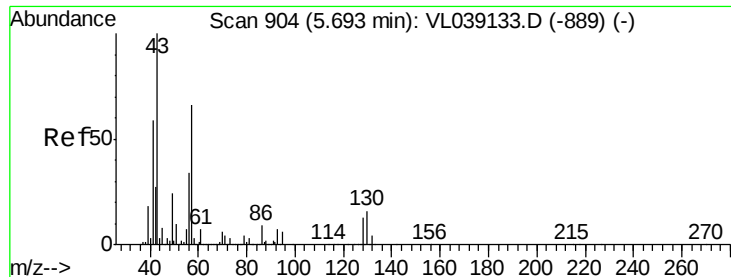
Tot Ion: 84 Resp: 4408
Ion Ratio Lower Upper
84 100
49 88.3 111.1 166.7#
51 54.5 35.3 52.9#
86 40.3 51.9 77.9#



#22
trans-1,2-Dichloroethene
Concen: 0.047 ppbv
RT: 4.89 min Scan# 654
Delta R.T. -0.00 min
Lab File: VL039224.D
Acq: 8 Jun 2022 00:54

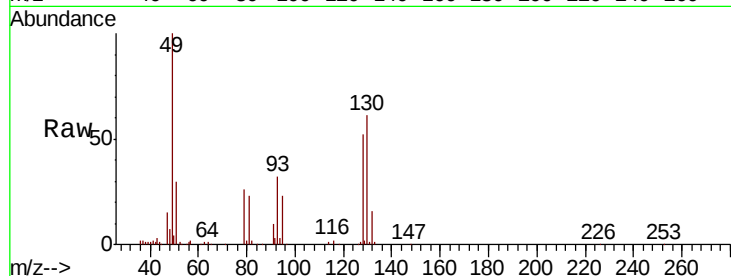
Tgt Ion: 96 Resp: 1232
Ion Ratio Lower Upper
96 100
61 80.3 126.6 190.0#
98 2.2 52.5 78.7#



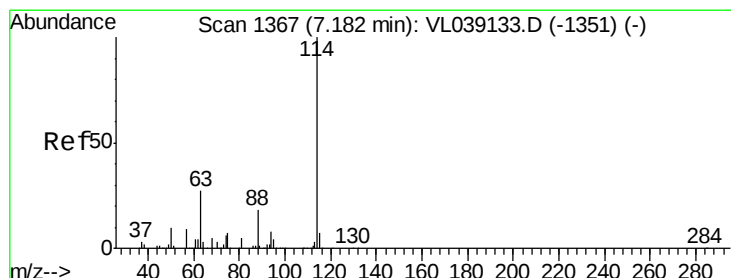
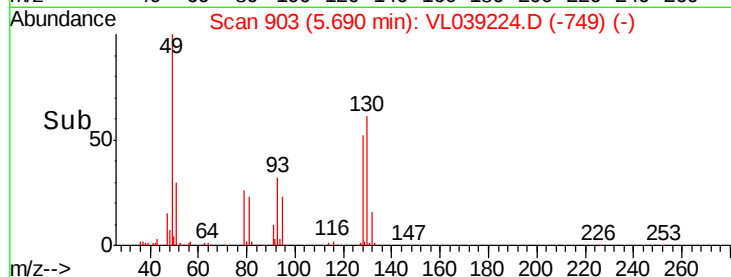
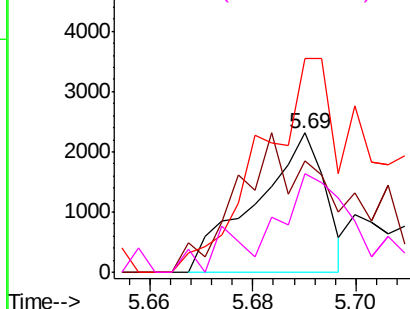


#26
Hexane
Concen: 0.036 ppbv
RT: 5.69 min Scan# 903
Delta R.T. -0.00 min
Lab File: VL039224.D
Acq: 8 Jun 2022 00:54

Tot Ion: 57 Resp: 2158
Ion Ratio Lower Upper
57 100
41 172.8 72.4 108.6#
43 365.2 187.0 280.6#
56 106.4 41.8 62.6#

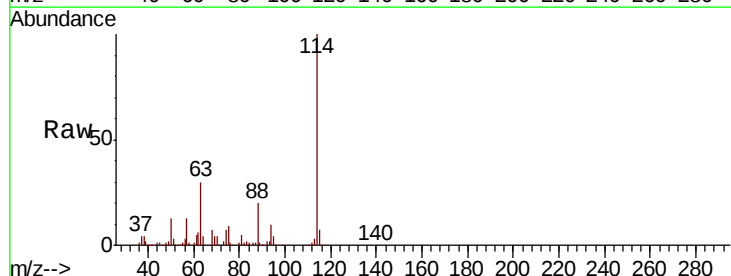


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

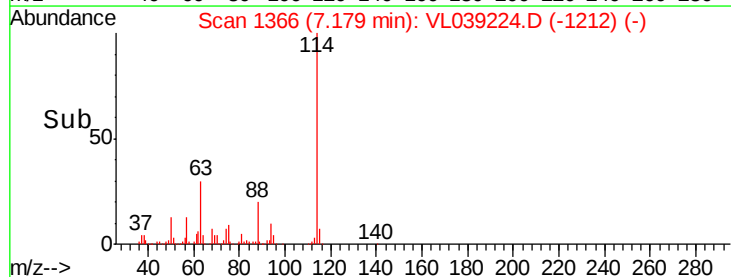
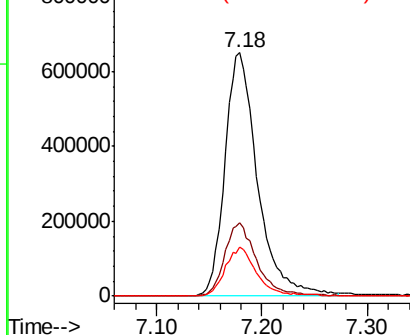


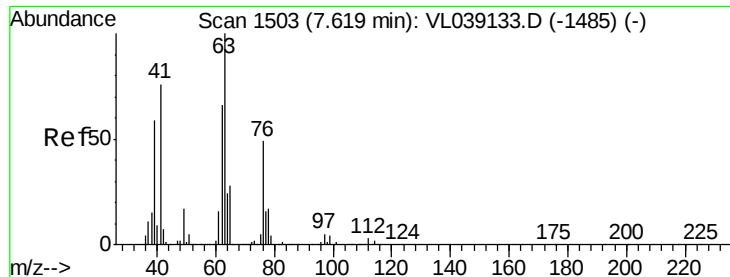
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1366
Delta R.T. -0.00 min
Lab File: VL039224.D
Acq: 8 Jun 2022 00:54

Tgt Ion:114 Resp: 1395028
Ion Ratio Lower Upper
114 100
63 30.0 21.7 32.5
88 19.7 14.8 22.2



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





#39

1,2-Dichloropropane

Concen: 9.146 ppbv

RT: 7.18 min Scan# 1366

Delta R.T. -0.44 min

Lab File: VL039224.D

Acq: 8 Jun 2022 00:54

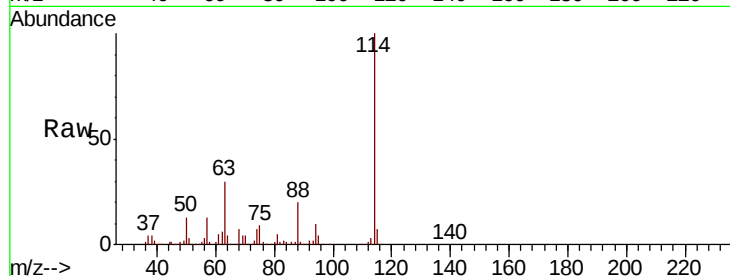
Tot Ion: 63 Resp: 412037

Ion Ratio Lower Upper

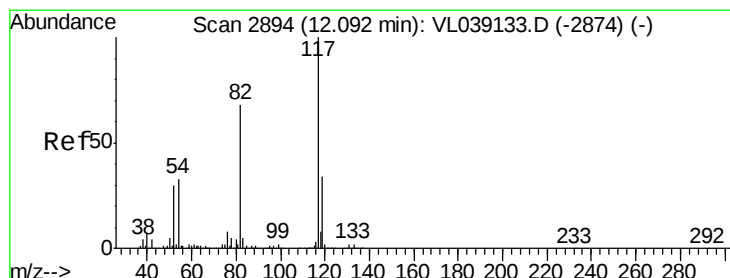
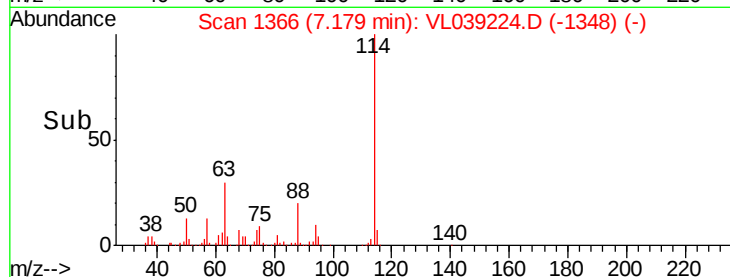
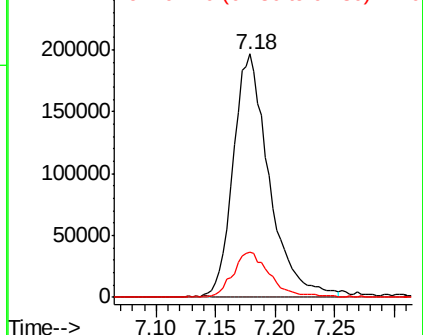
63 100

41 0.3 60.8 91.2#

62 18.6 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



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2892

Delta R.T. -0.01 min

Lab File: VL039224.D

Acq: 8 Jun 2022 00:54

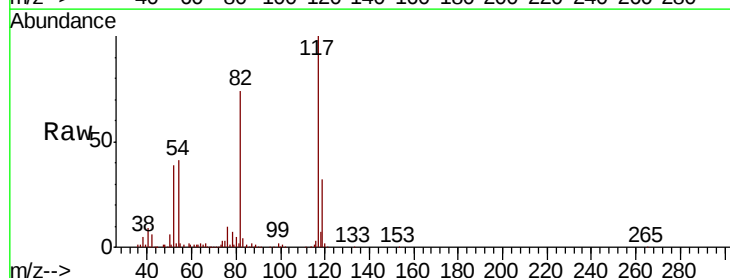
Tgt Ion: 117 Resp: 1126826

Ion Ratio Lower Upper

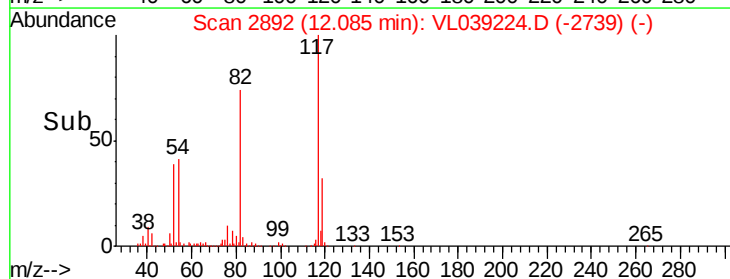
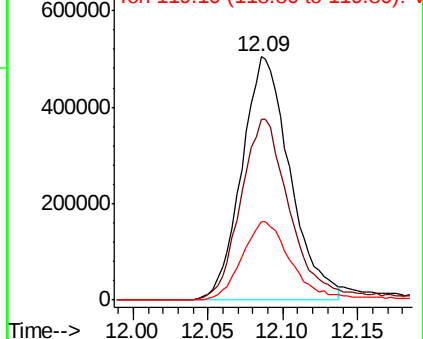
117 100

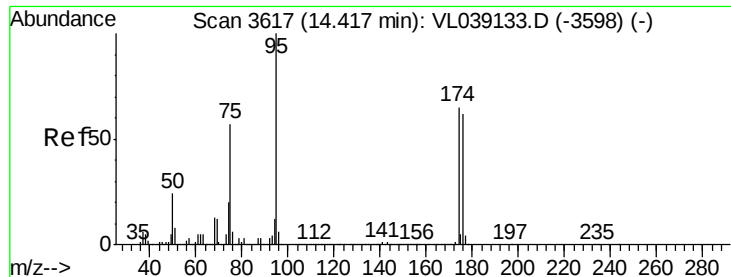
82 78.0 55.1 82.7

119 34.5 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: 11.048 ppbv

RT: 14.42 min Scan# 3617

Delta R.T. -0.00 min

Lab File: VL039224.D

Acq: 8 Jun 2022 00:54

Tot Ion: 95 Resp: 1029193

Ion Ratio Lower Upper

95 100

174 60.0 53.8 80.8

175 4.4 4.1 6.1

