

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060722\
 Data File : VL039223.D
 Acq On : 8 Jun 2022 00:14
 Operator : SY/AP
 Sample : N3214-13 0.03 LOD
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 08 05:03:08 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	598936	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	1488286	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	1230286	10.00	ppbv	0.00

System Monitoring Compounds

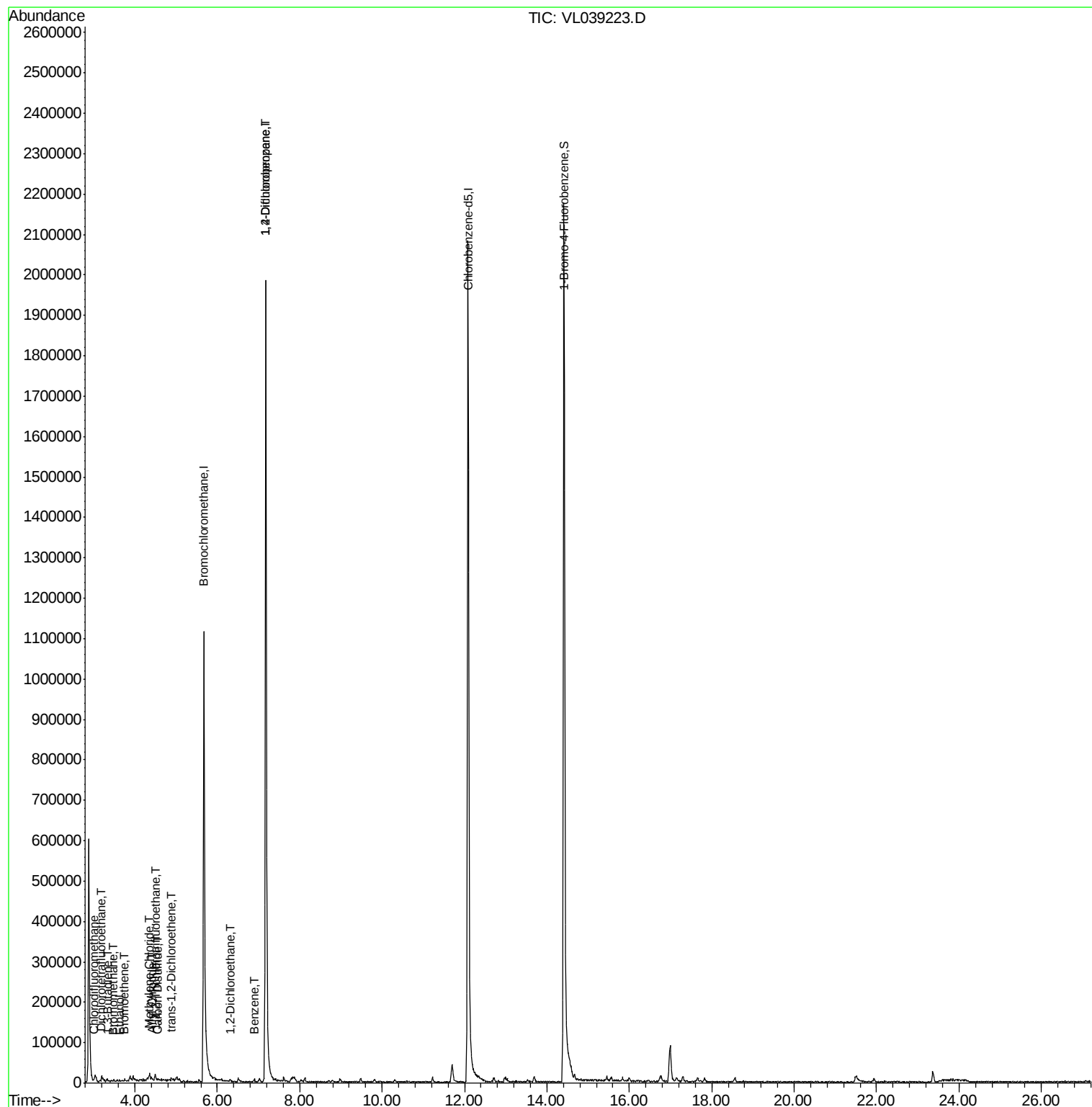
68) 1-Bromo-4-Fluorobenzene	14.41	95	1050913	10.33	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.30%

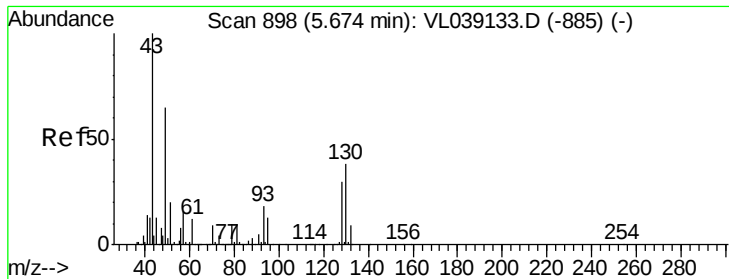
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.99	51	4983	0.065	ppbv #	89
6) Bromomethane	3.47	94	730	0.041	ppbv #	25
8) Dichlorotetrafluoroethane	3.20	85	6711	0.070	ppbv	92
12) 1,1,2-Trichlorotrifluoroet	4.49	101	2468	0.039	ppbv #	15
13) Ethanol	3.61	45	155	0.086	ppbv #	100
14) Bromoethene	3.75	108	1238	0.044	ppbv #	4
16) 1,3-Butadiene	3.33	39	1828	0.055	ppbv #	69
20) Methylene Chloride	4.36	84	2204	0.084	ppbv #	27
21) Allyl Chloride	4.42	41	1314	0.031	ppbv #	1
22) trans-1,2-Dichloroethene	4.89	96	1241	0.046	ppbv #	51
27) Carbon Disulfide	4.56	76	2124	0.033	ppbv #	61
36) Benzene	6.90	78	4490	0.037	ppbv #	85
37) 1,2-Dichloroethane	6.30	62	3611	0.045	ppbv #	84
39) 1,2-Dichloropropane	7.18	63	413705	8.608	ppbv #	25

(#) = 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: VL039223.D

Acq: 8 Jun 2022 00:14

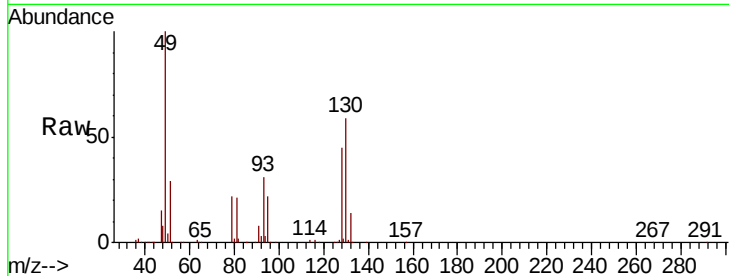
Tot Ion: 49 Resp: 598936

Ion Ratio Lower Upper

49 100

128 51.3 24.7 74.1

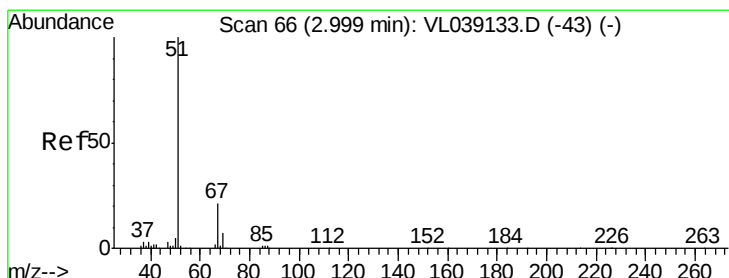
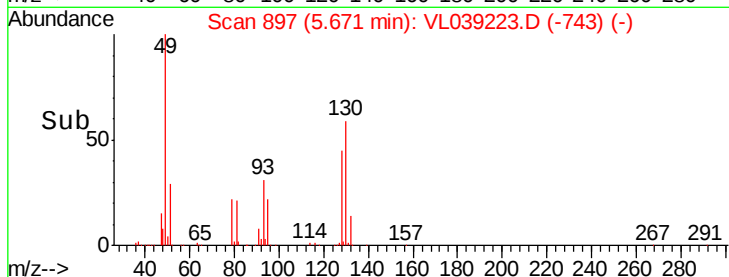
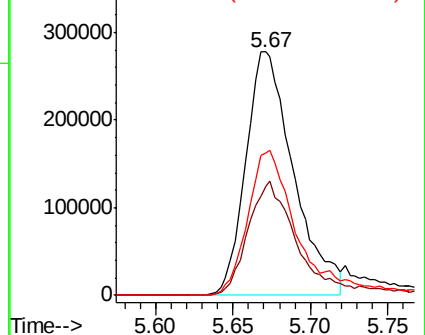
130 66.3 31.4 94.0



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



#3

Chlorodifluoromethane

Concen: 0.065 ppbv

RT: 2.99 min Scan# 64

Delta R.T. -0.01 min

Lab File: VL039223.D

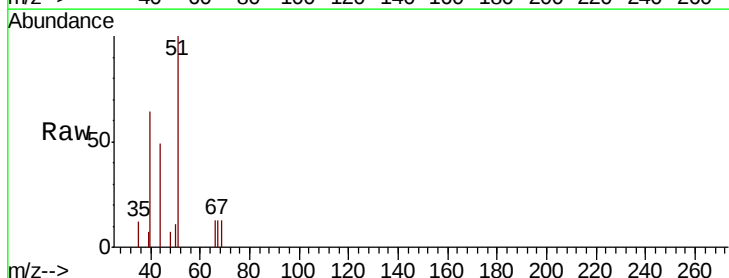
Acq: 8 Jun 2022 00:14

Tgt Ion: 51 Resp: 4983

Ion Ratio Lower Upper

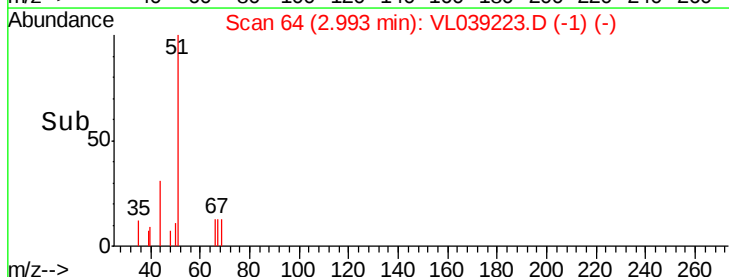
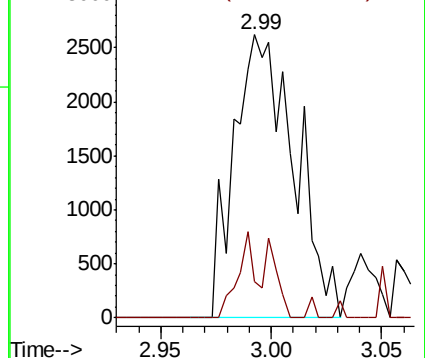
51 100

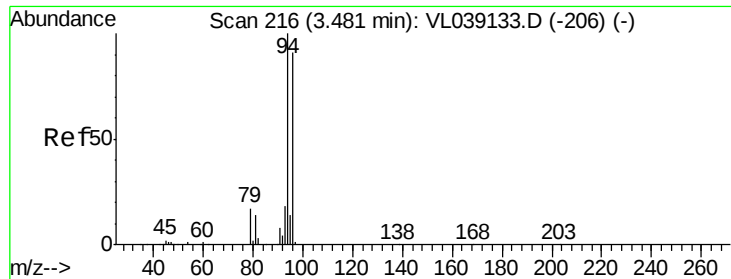
67 15.2 16.2 24.4#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#6

Bromomethane

Concen: 0.041 ppbv

RT: 3.47 min Scan# 214

Delta R.T. -0.01 min

Lab File: VL039223.D

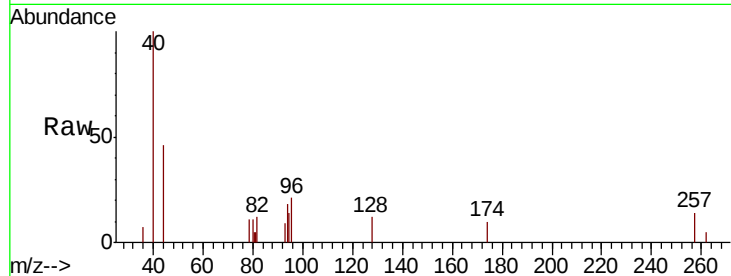
Acq: 8 Jun 2022 00:14

Tot Ion: 94 Resp: 730

Ion Ratio Lower Upper

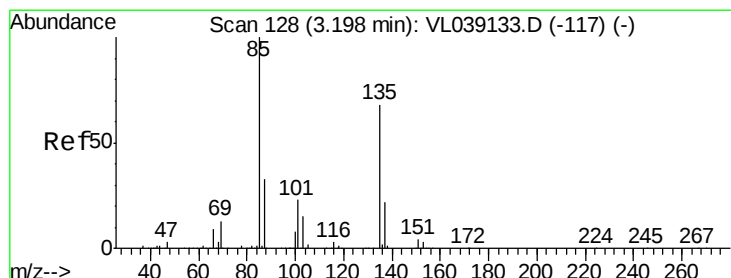
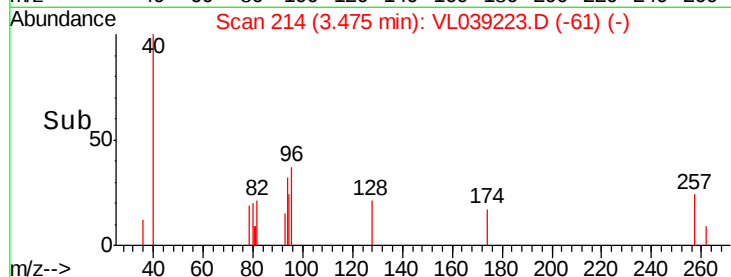
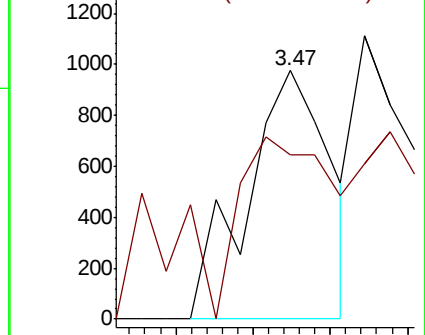
94 100

96 20.1 73.0 109.4#



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.070 ppbv

RT: 3.20 min Scan# 127

Delta R.T. -0.00 min

Lab File: VL039223.D

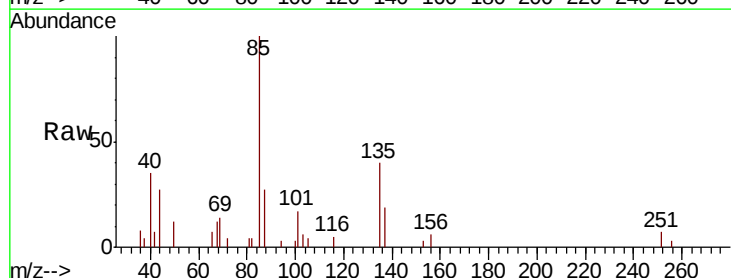
Acq: 8 Jun 2022 00:14

Tgt Ion: 85 Resp: 6711

Ion Ratio Lower Upper

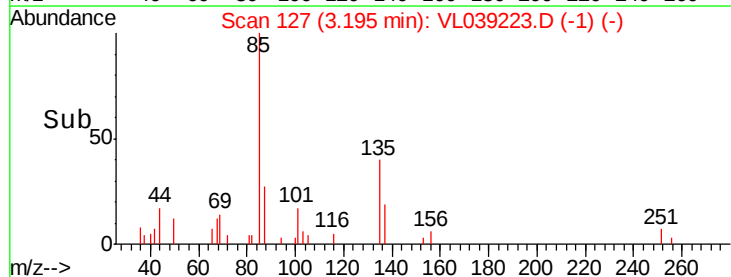
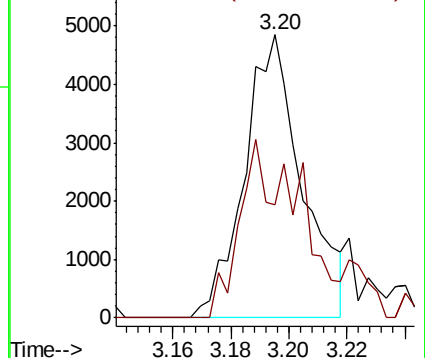
85 100

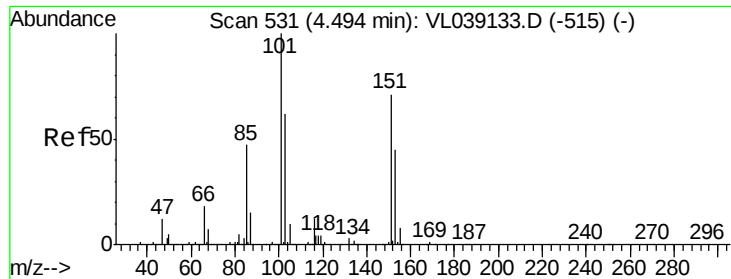
135 74.9 55.0 82.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.039 ppbv

RT: 4.49 min Scan# 531

Delta R.T. -0.00 min

Lab File: VL039223.D

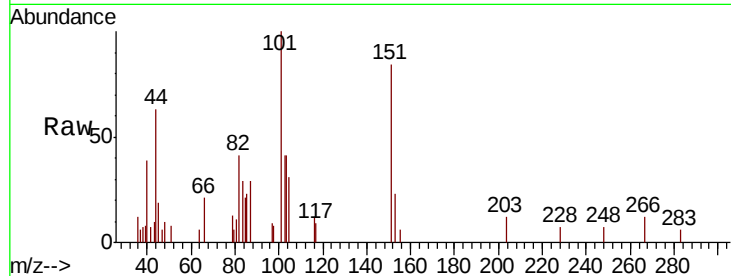
Acq: 8 Jun 2022 00:14

Tot Ion:101 Resp: 2468

Ion Ratio Lower Upper

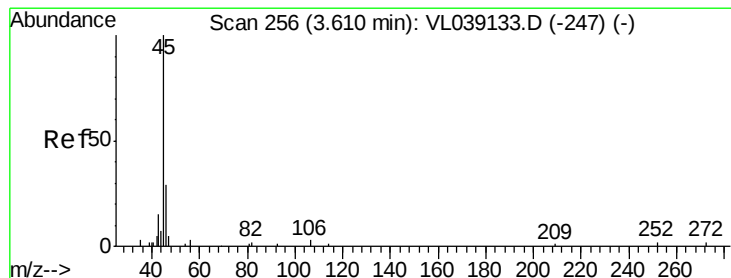
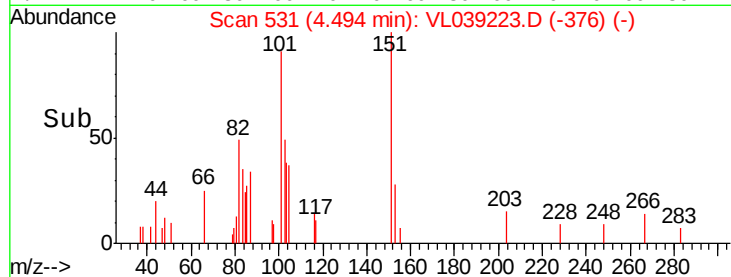
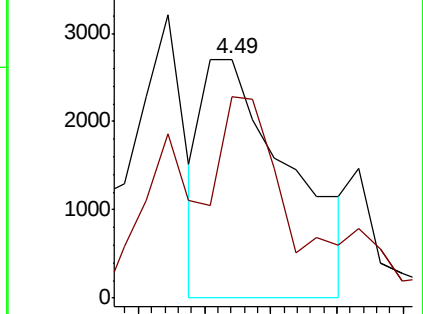
101 100

151 146.4 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: 0.086 ppbv

RT: 3.61 min Scan# 257

Delta R.T. 0.00 min

Lab File: VL039223.D

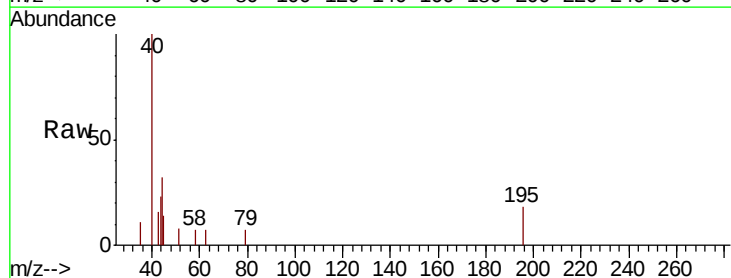
Acq: 8 Jun 2022 00:14

Tgt Ion: 45 Resp: 155

Ion Ratio Lower Upper

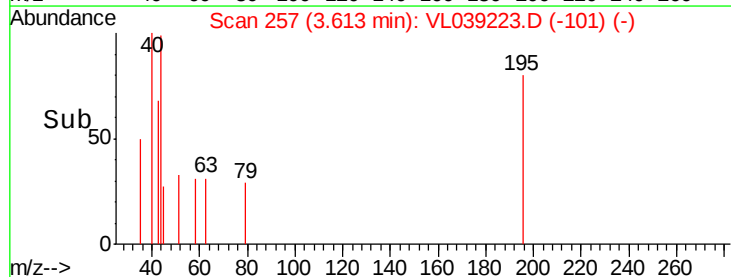
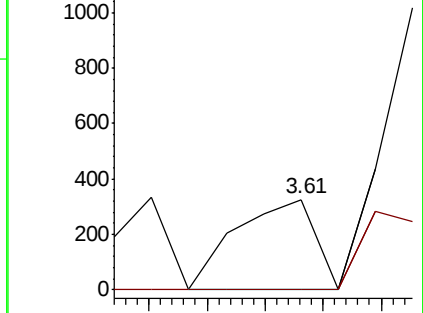
45 100

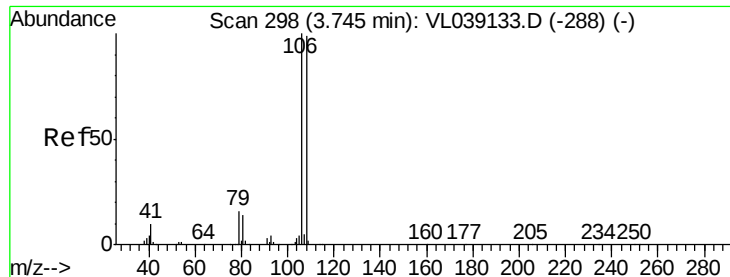
46 0.0 0.0 0.0



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#14

Bromoethene

Concen: 0.044 ppbv

RT: 3.75 min Scan# 299

Delta R.T. 0.00 min

Lab File: VL039223.D

Acq: 8 Jun 2022 00:14

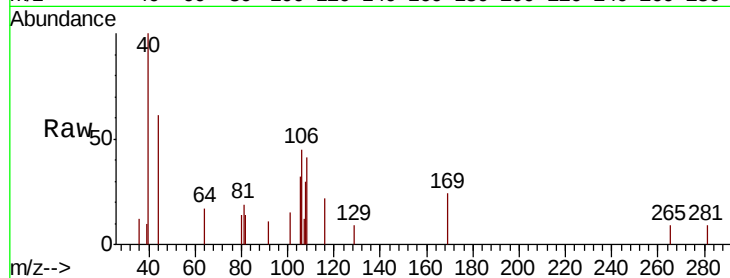
Tot Ion: 108 Resp: 1238

Ion Ratio Lower Upper

108 100

106 0.0 88.4 132.6#

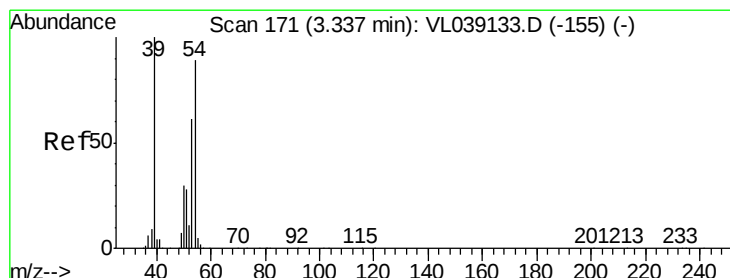
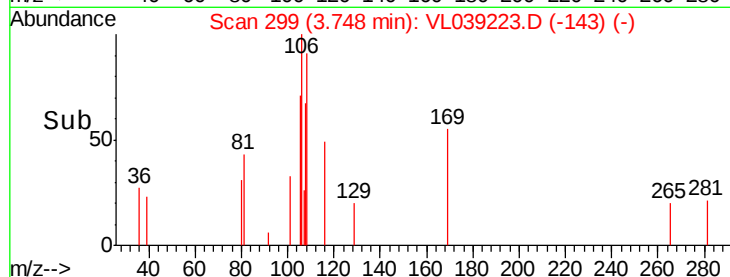
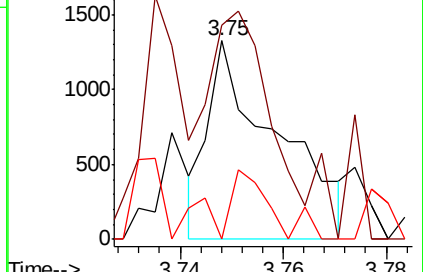
79 0.0 13.4 20.2#



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



#16

1,3-Butadiene

Concen: 0.055 ppbv

RT: 3.33 min Scan# 170

Delta R.T. -0.00 min

Lab File: VL039223.D

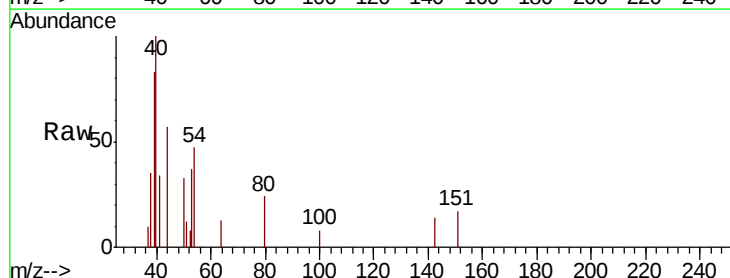
Acq: 8 Jun 2022 00:14

Tgt Ion: 39 Resp: 1828

Ion Ratio Lower Upper

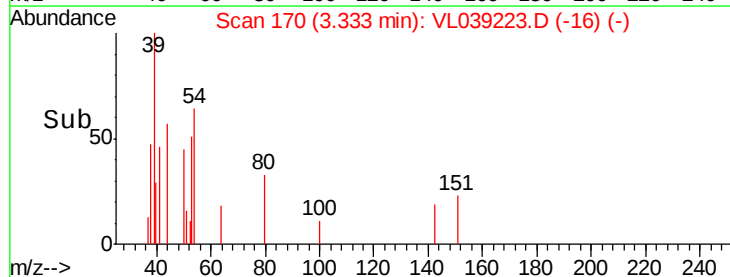
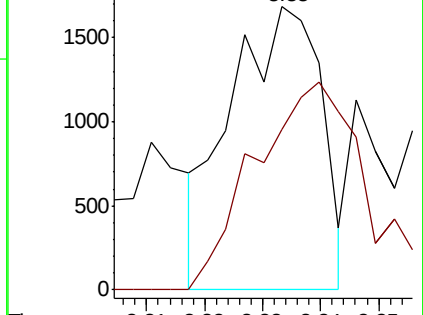
39 100

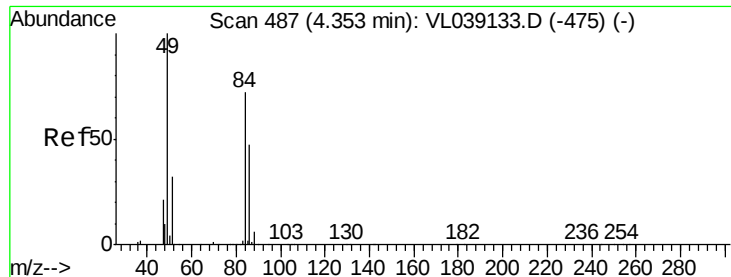
54 109.8 65.8 98.6#



Abundance Ion 39.10 (38.80 to 39.80): V

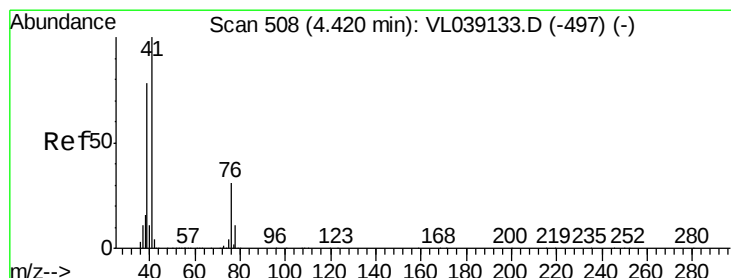
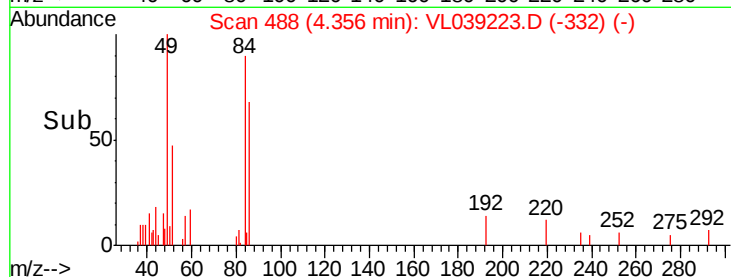
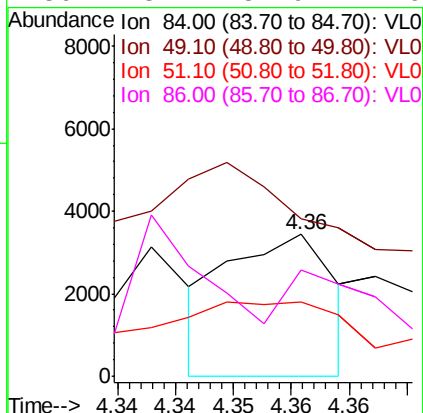
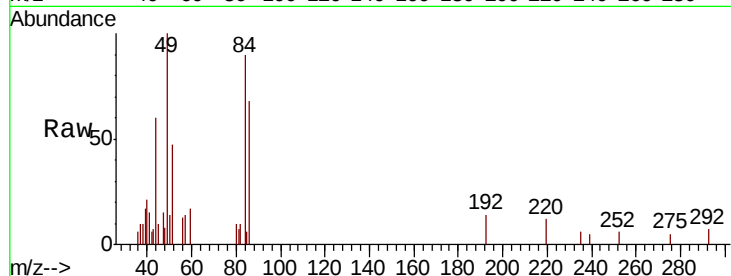
Ion 54.10 (53.80 to 54.80): V





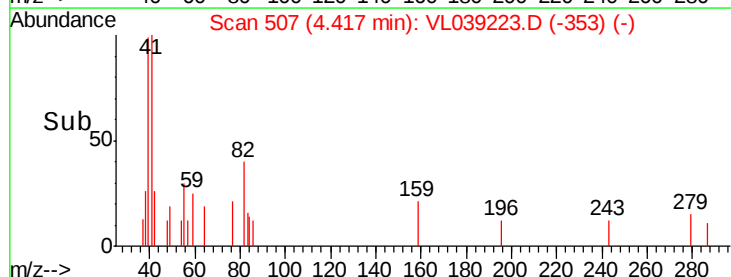
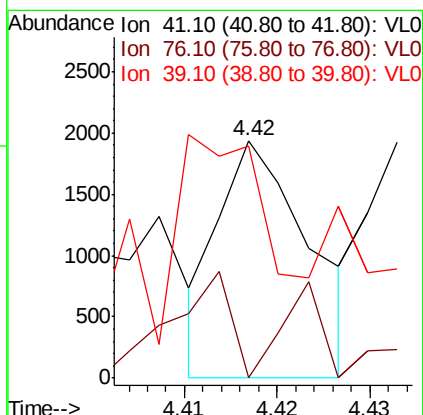
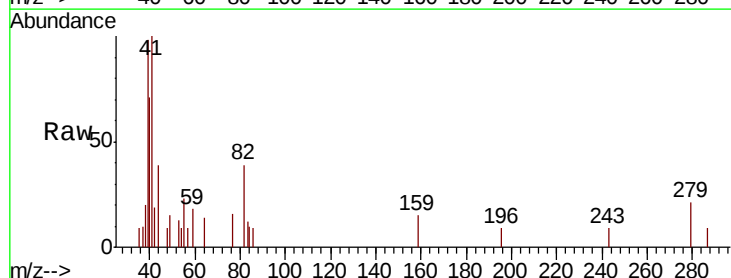
#20
Methylene Chloride
Concen: 0.084 ppbv
RT: 4.36 min Scan# 488
Delta R.T. 0.00 min
Lab File: VL039223.D
Acq: 8 Jun 2022 00:14

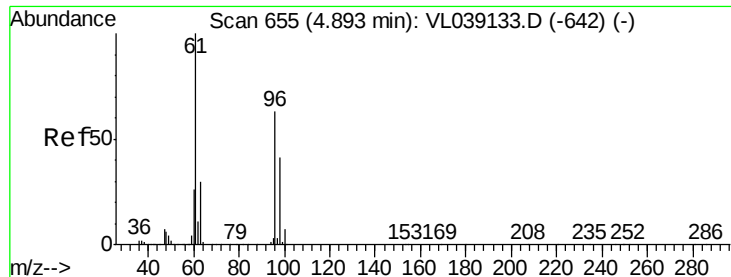
Tot Ion:	84	Resp:	2204
Ion	Ratio	Lower	Upper
84	100		
49	16.5	111.1	166.7#
51	30.5	35.3	52.9#
86	28.1	51.9	77.9#



#21
Allyl Chloride
Concen: 0.031 ppbv
RT: 4.42 min Scan# 507
Delta R.T. -0.00 min
Lab File: VL039223.D
Acq: 8 Jun 2022 00:14

Tgt Ion:	41	Resp:	1314
Ion	Ratio	Lower	Upper
41	100		
76	71.8	24.2	36.2#
39	230.7	62.2	93.2#





#22

trans-1,2-Dichloroethene

Concen: 0.046 ppbv

RT: 4.89 min Scan# 653

Delta R.T. -0.01 min

Lab File: VL039223.D

Acq: 8 Jun 2022 00:14

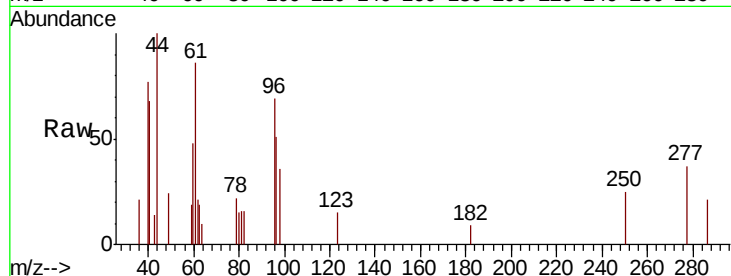
Tot Ion: 96 Resp: 1241

Ion Ratio Lower Upper

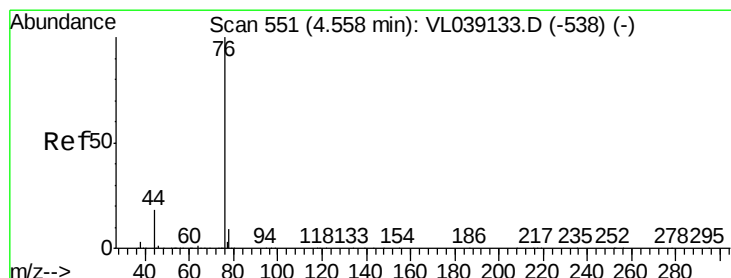
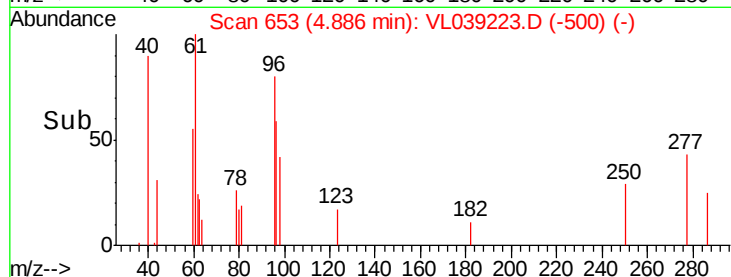
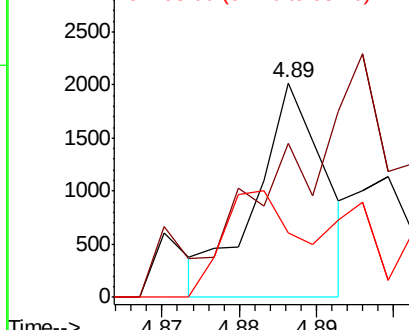
96 100

61 87.4 126.6 190.0#

98 36.8 52.5 78.7#



Abundance Ion 96.00 (95.70 to 96.70): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 98.00 (97.70 to 98.70): VL0



#27

Carbon Disulfide

Concen: 0.033 ppbv

RT: 4.56 min Scan# 552

Delta R.T. 0.00 min

Lab File: VL039223.D

Acq: 8 Jun 2022 00:14

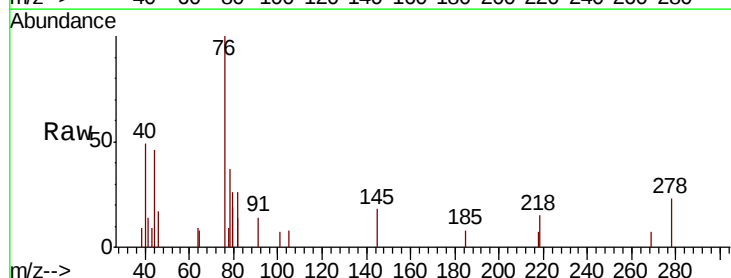
Tgt Ion: 76 Resp: 2124

Ion Ratio Lower Upper

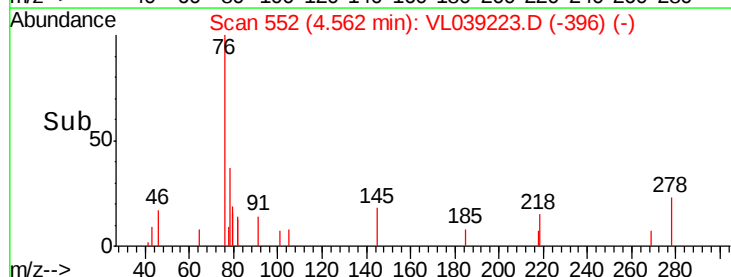
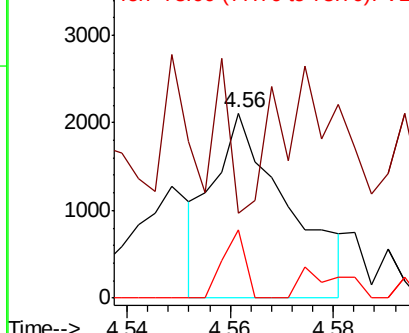
76 100

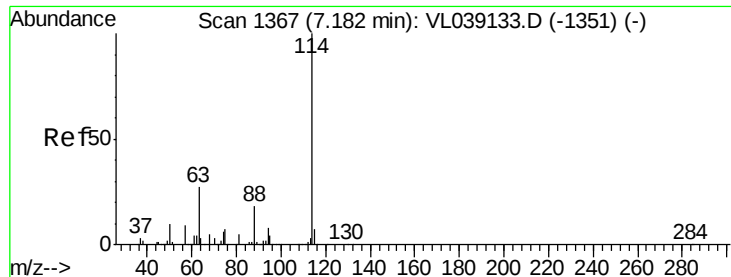
44 0.0 14.4 21.6#

78 22.3 7.7 11.5#



Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 min Scan# 1365

Delta R.T. -0.01 min

Lab File: VL039223.D

Acq: 8 Jun 2022 00:14

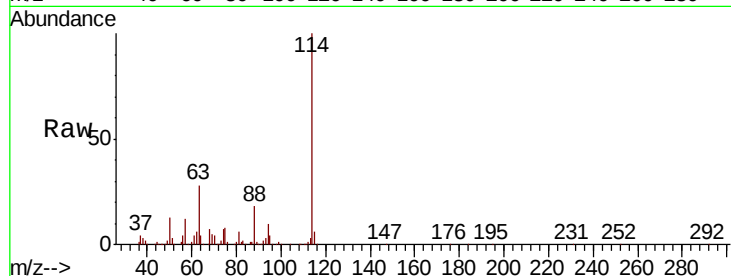
Tot Ion:114 Resp: 1488286

Ion Ratio Lower Upper

114 100

63 28.7 21.7 32.5

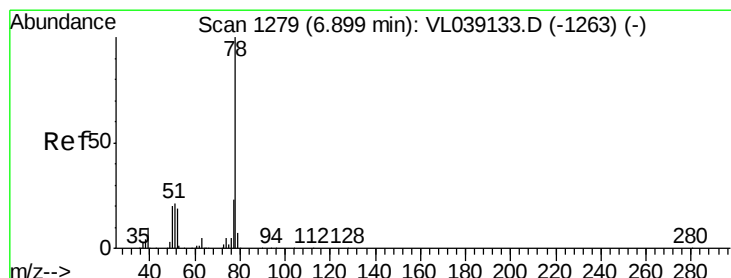
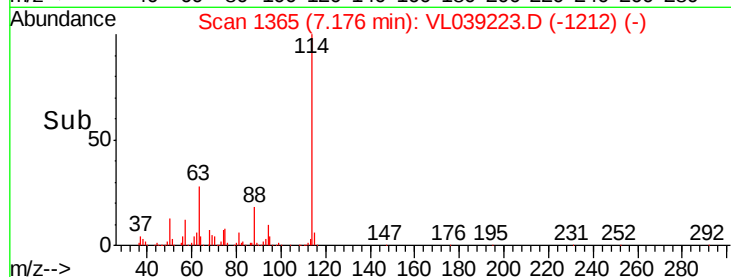
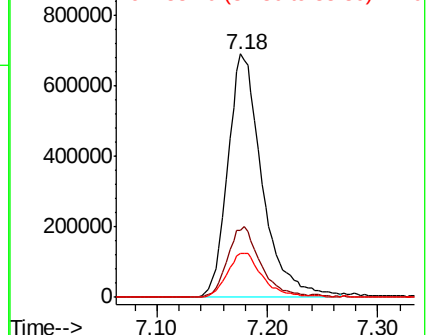
88 19.2 14.8 22.2



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



#36

Benzene

Concen: 0.037 ppbv

RT: 6.90 min Scan# 1278

Delta R.T. -0.00 min

Lab File: VL039223.D

Acq: 8 Jun 2022 00:14

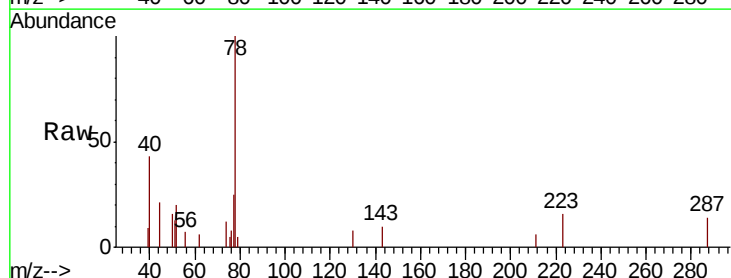
Tgt Ion: 78 Resp: 4490

Ion Ratio Lower Upper

78 100

77 29.4 18.6 27.8#

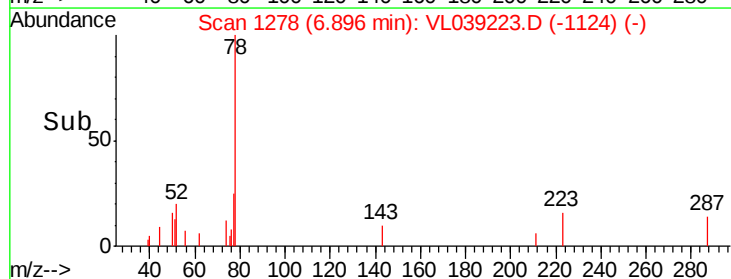
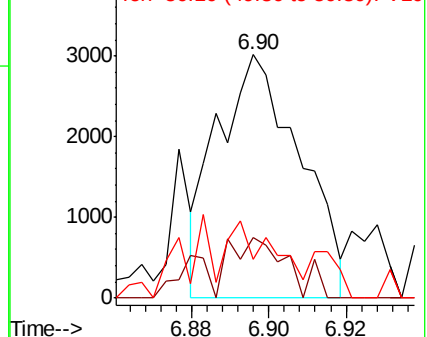
50 11.9 15.8 23.8#

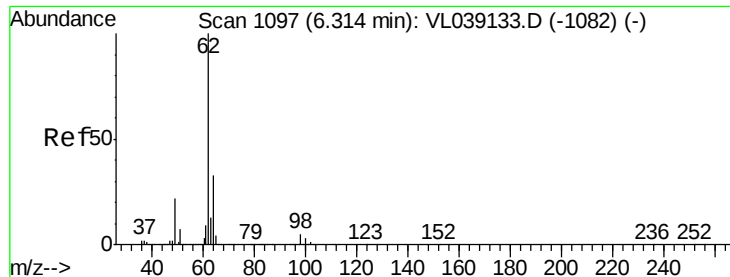


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

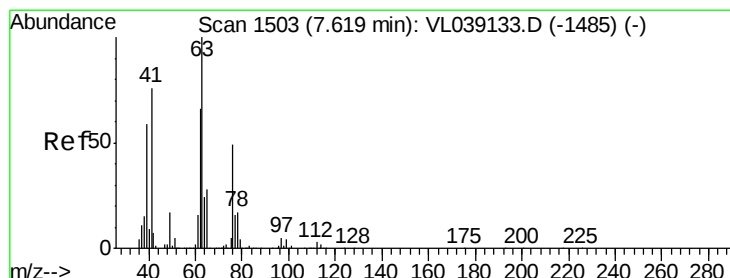
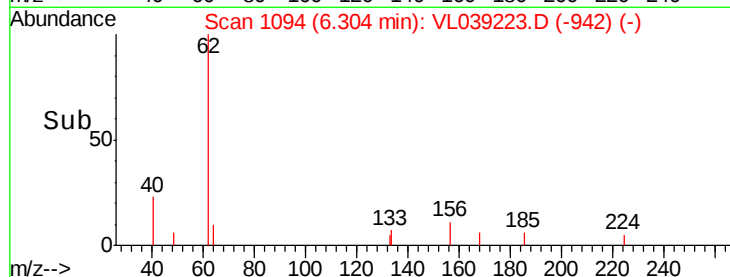
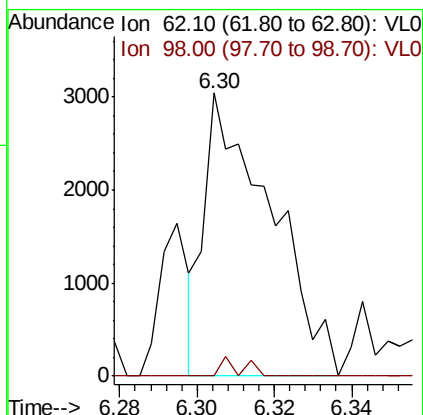
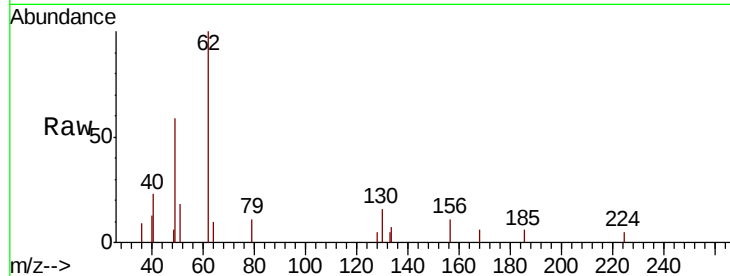
Ion 50.10 (49.80 to 50.80): VL0





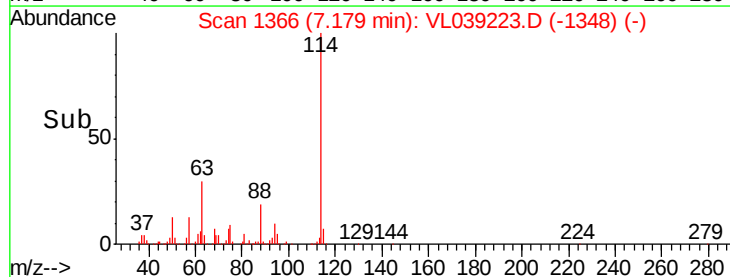
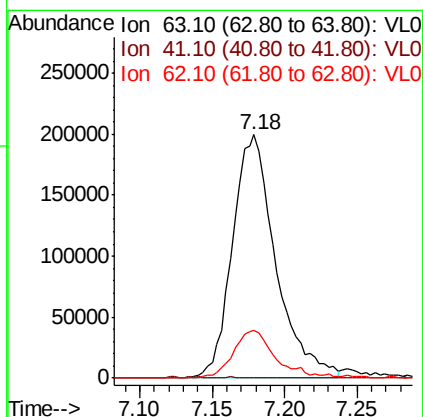
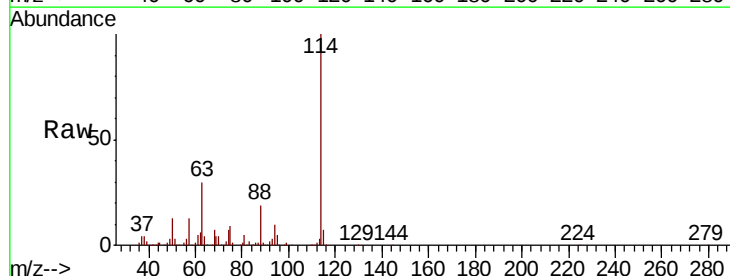
#37
 1,2-Dichloroethane
 Concen: 0.045 ppbv
 RT: 6.30 min Scan# 1094
 Delta R.T. -0.01 min
 Lab File: VL039223.D
 Acq: 8 Jun 2022 00:14

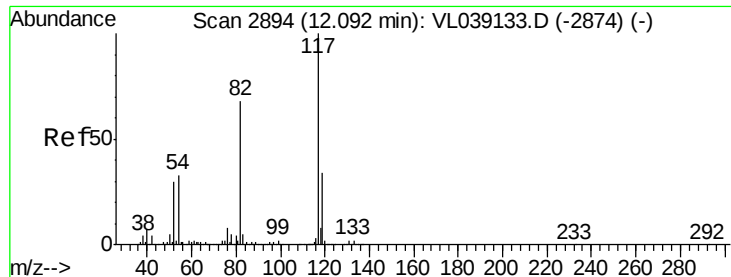
Tot Ion: 62 Resp: 3611
 Ion Ratio Lower Upper
 62 100
 98 0.0 4.3 6.5#



#39
 1,2-Dichloropropane
 Concen: 8.608 ppbv
 RT: 7.18 min Scan# 1366
 Delta R.T. -0.44 min
 Lab File: VL039223.D
 Acq: 8 Jun 2022 00:14

Tgt Ion: 63 Resp: 413705
 Ion Ratio Lower Upper
 63 100
 41 0.2 60.8 91.2#
 62 19.3 52.9 79.3#





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2892

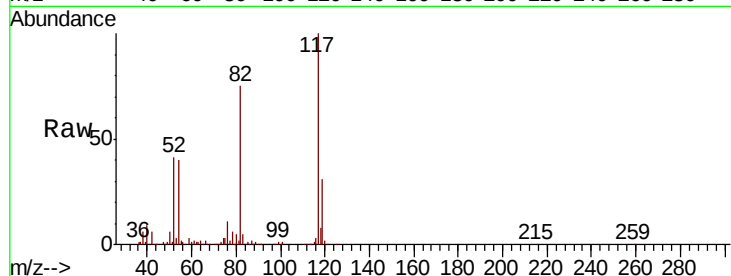
Delta R.T. -0.01 min

Lab File: VL039223.D

Acq: 8 Jun 2022 00:14

Tot Ion:117 Resp: 1230286

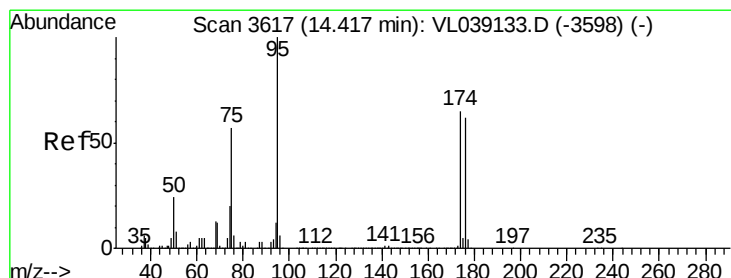
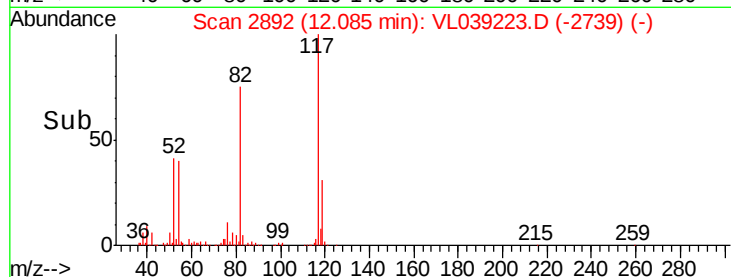
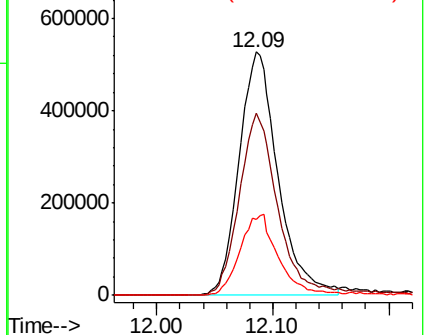
Ion	Ratio	Lower	Upper
117	100		
82	77.0	55.1	82.7
119	33.2	24.7	37.1



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: 10.332 ppbv

RT: 14.41 min Scan# 3616

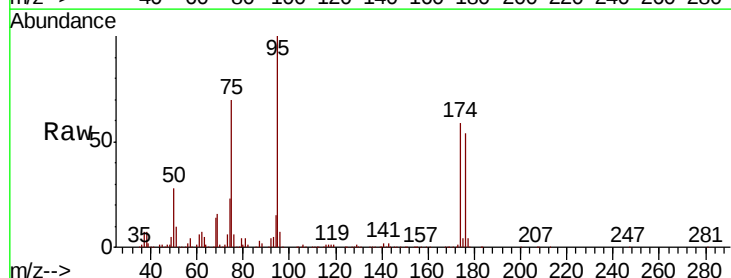
Delta R.T. -0.00 min

Lab File: VL039223.D

Acq: 8 Jun 2022 00:14

Tgt Ion: 95 Resp: 1050913

Ion	Ratio	Lower	Upper
95	100		
174	59.7	53.8	80.8
175	4.3	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

