

Data File : VL035677.D
Acq On : 18 Sep 2020 8:50
Operator : SY/AP
Sample : VIBLK
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VIBLK

Quant Time: Sep 18 14:31:32 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL082720AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Sep 14 15:19:50 2020
QLast Update : Mon Sep 14 15:19:50 2020
Response via : Initial Calibration

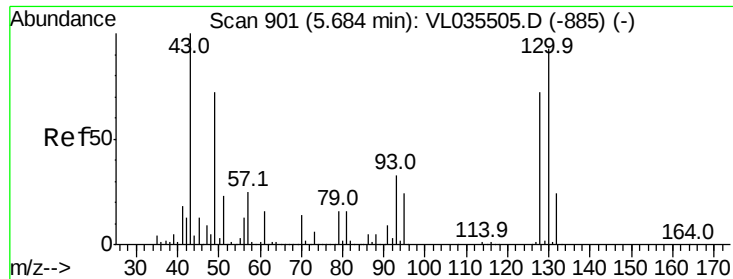
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1048182	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	4115065	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	4097796	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	2989216	10.27	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	2.98	51	4912	0.042	ppbv	92
4) Chloromethane	3.14	50	2738	0.044	ppbv #	81
5) Vinyl Chloride	3.26	62	2901	0.038	ppbv	98
8) Dichlorotetrafluoroethane	3.19	85	8145	0.037	ppbv	96
9) Propene	3.01	41	2830	0.063	ppbv #	19
11) Trichlorofluoromethane	3.95	101	9956	0.038	ppbv	93
14) Bromoethene	3.74	108	2751	0.032	ppbv #	95
15) Acetone	3.87	43	41129	0.356	ppbv #	69
18) 1,1-Dichloroethene	4.29	96	3939	0.045	ppbv #	78
19) Isopropyl Alcohol	4.00	45	3118	0.045	ppbv #	93
20) Methylene Chloride	4.34	84	19739	0.229	ppbv	95
22) trans-1,2-Dichloroethene	4.89	96	2937	0.031	ppbv	93
29) Chloroform	5.75	83	12018	0.051	ppbv #	80
31) cis-1,2-Dichloroethene	5.55	61	25313	0.213	ppbv #	89
32) 1,1,1-Trichloroethane	6.51	97	6931	0.030	ppbv #	92
38) Trichloroethene	7.84	130	132457	0.856	ppbv	96
39) 1,2-Dichloropropane	7.18	63	784056	8.713	ppbv #	32
42) Bromodichloromethane	7.80	83	6845	0.033	ppbv #	93
52) Tetrachloroethene	11.24	164	1166384	7.495	ppbv	98

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 897

Delta R.T. 0.01 min

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VIBLK

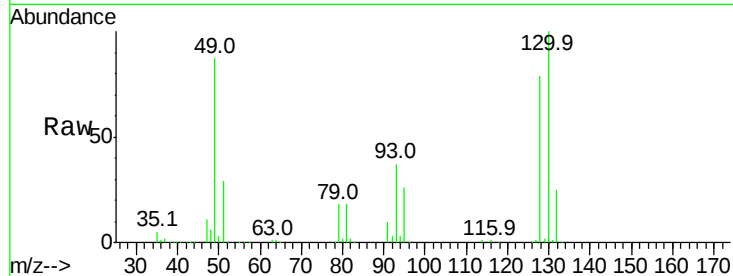
Tgt Ion: 49 Resp: 1048182

Ion Ratio Lower Upper

49 100

128 90.2 50.0 150.1

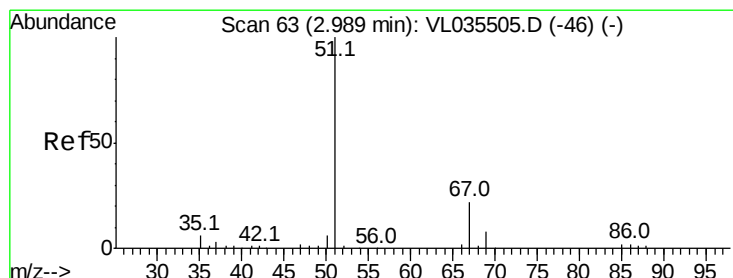
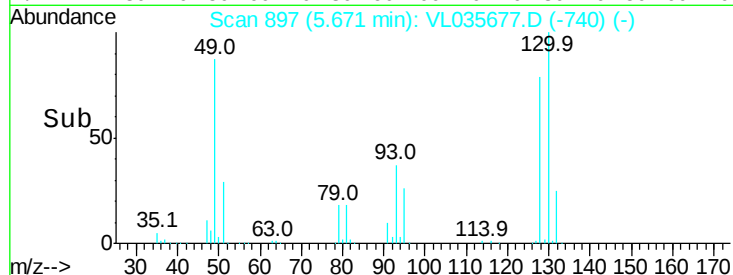
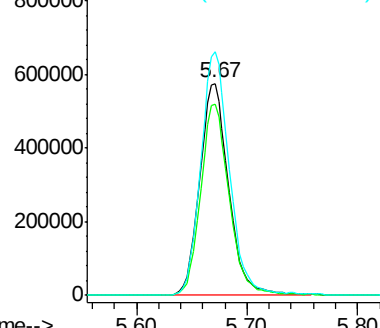
130 114.9 64.4 193.2



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



#3

Chlorodifluoromethane

Concen: 0.042 ppbv

RT: 2.98 min Scan# 61

Delta R.T. 0.01 min

Lab File: VL035677.D

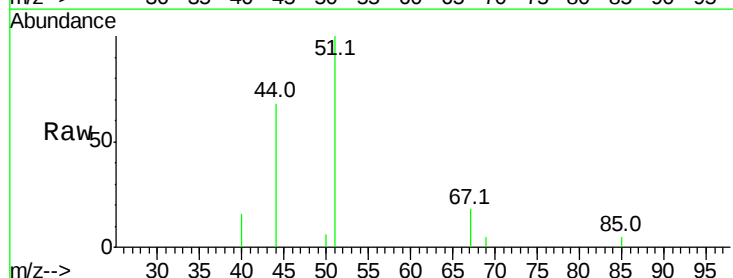
Acq: 18 Sep 2020 8:50

Tgt Ion: 51 Resp: 4912

Ion Ratio Lower Upper

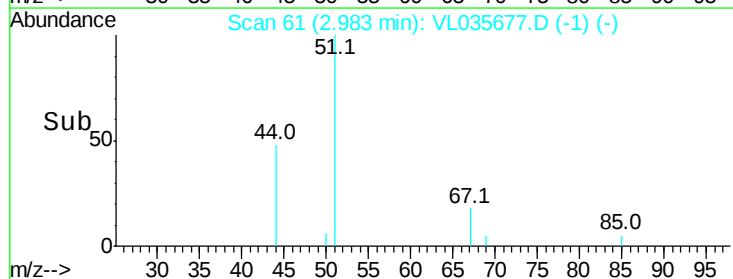
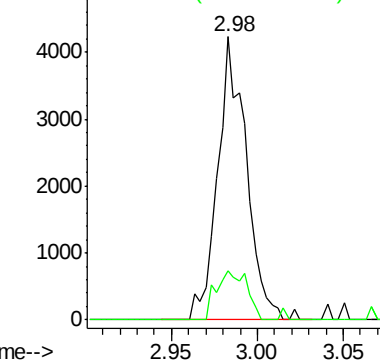
51 100

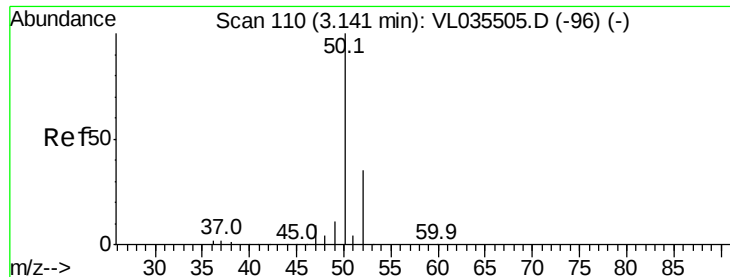
67 18.6 17.8 26.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.044 ppbv

RT: 3.14 min Scan# 110

Delta R.T. 0.01 min

Lab File: VL035677.D

Acq: 18 Sep 2020 8:50

Instrument :

MSVOA_L

ClientSampleId :

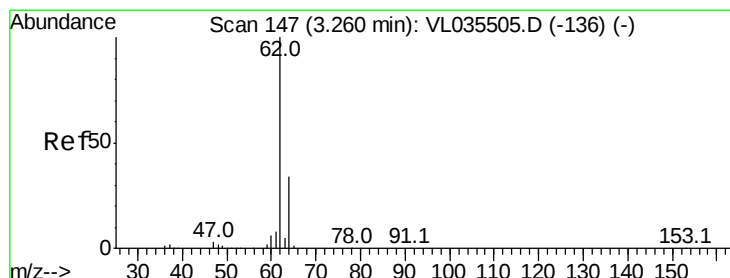
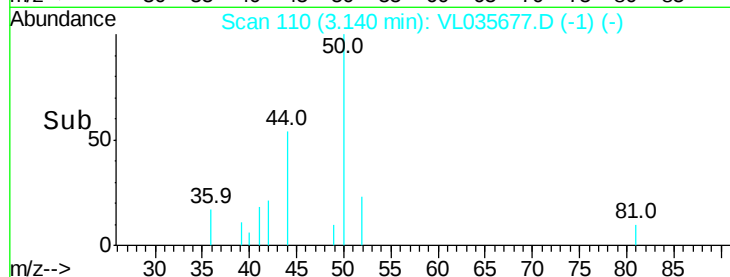
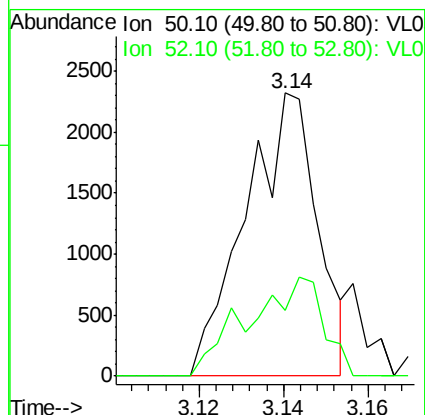
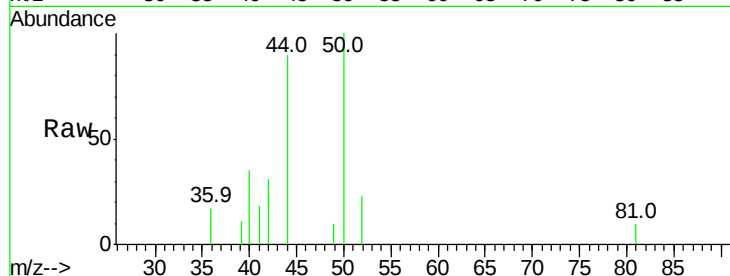
VIBLK

Tgt Ion: 50 Resp: 2738

Ion Ratio Lower Upper

50 100

52 23.4 27.7 41.5#



#5

Vinyl Chloride

Concen: 0.038 ppbv

RT: 3.26 min Scan# 146

Delta R.T. 0.01 min

Lab File: VL035677.D

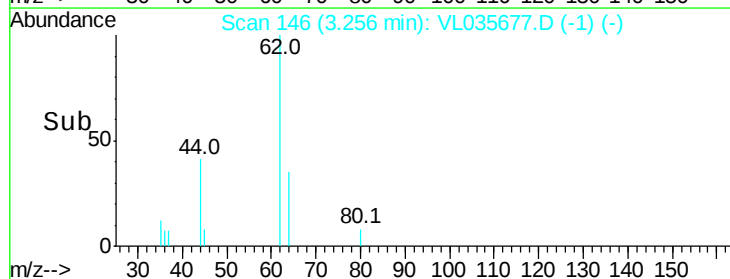
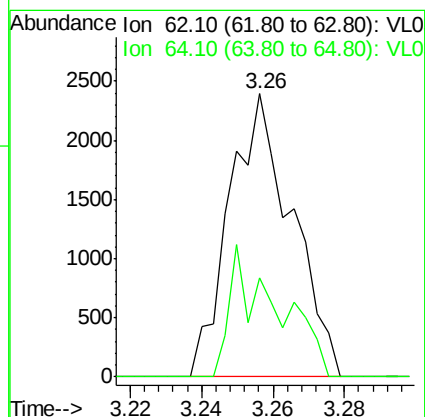
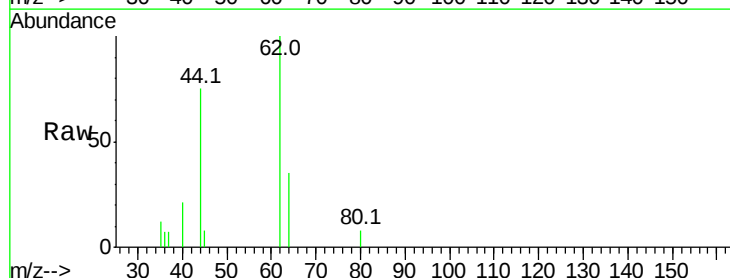
Acq: 18 Sep 2020 8:50

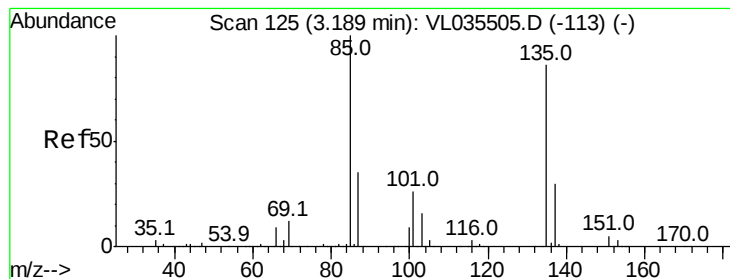
Tgt Ion: 62 Resp: 2901

Ion Ratio Lower Upper

62 100

64 35.2 27.4 41.2





#8

Dichlorotetrafluoroethane

Concen: 0.037 ppbv

RT: 3.19 min Scan# 124

Delta R.T. 0.01 min

Lab File: VL035677.D

Acq: 18 Sep 2020 8:50

Instrument :

MSVOA_L

ClientSampleId :

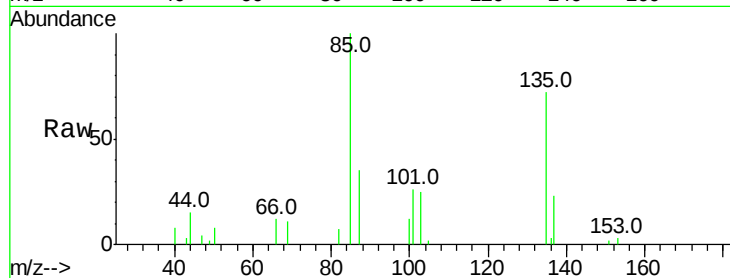
VIBLK

Tgt Ion: 85 Resp: 8145

Ion Ratio Lower Upper

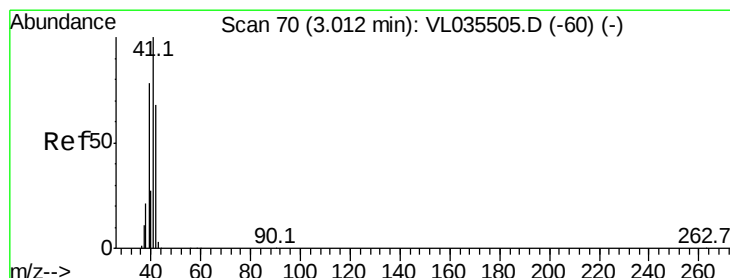
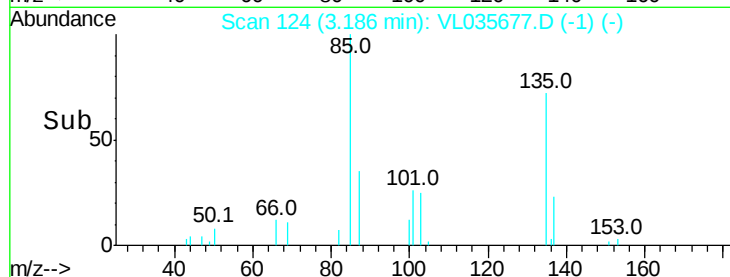
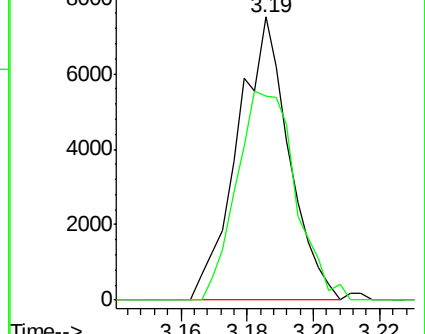
85 100

135 84.2 70.4 105.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V



#9

Propene

Concen: 0.063 ppbv

RT: 3.01 min Scan# 69

Delta R.T. 0.01 min

Lab File: VL035677.D

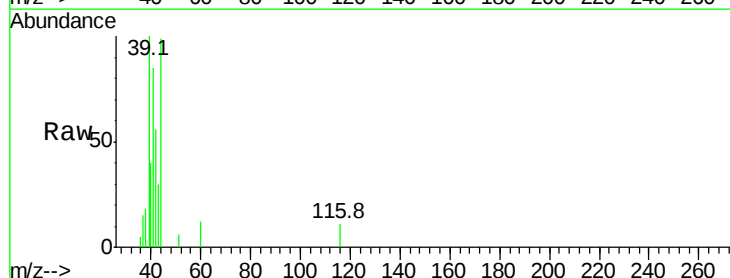
Acq: 18 Sep 2020 8:50

Tgt Ion: 41 Resp: 2830

Ion Ratio Lower Upper

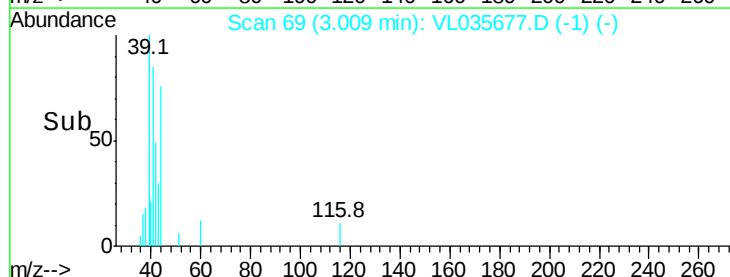
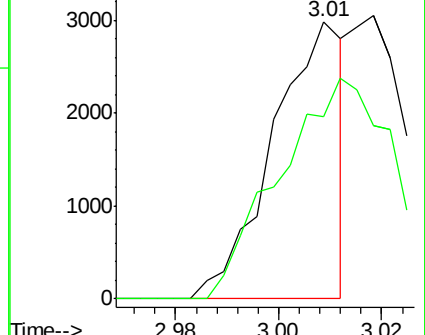
41 100

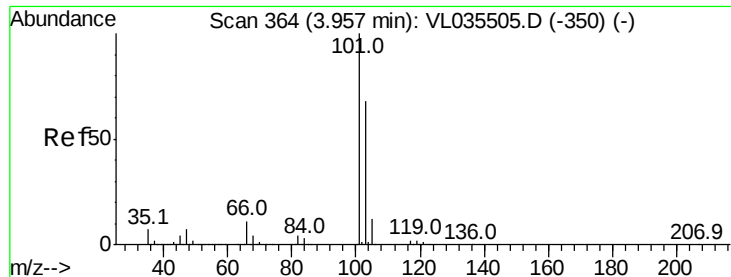
42 137.0 56.3 84.5#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

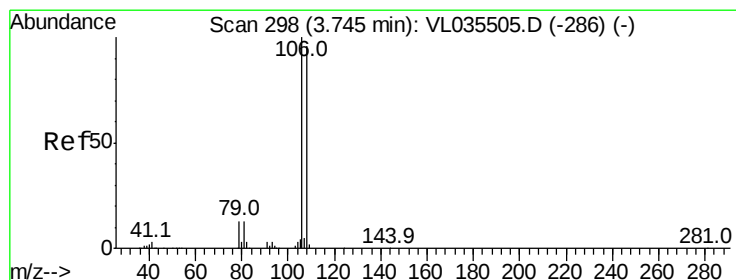
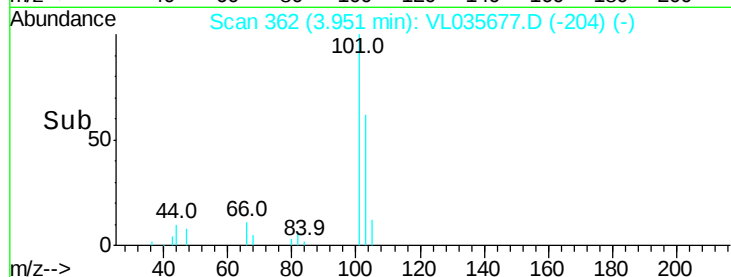
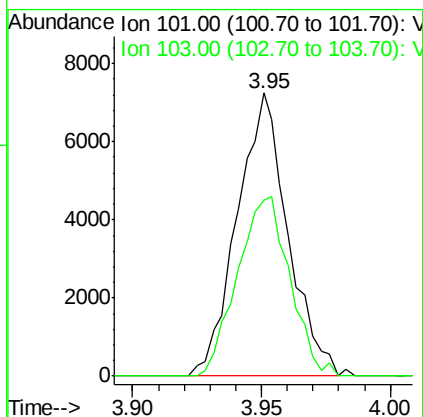
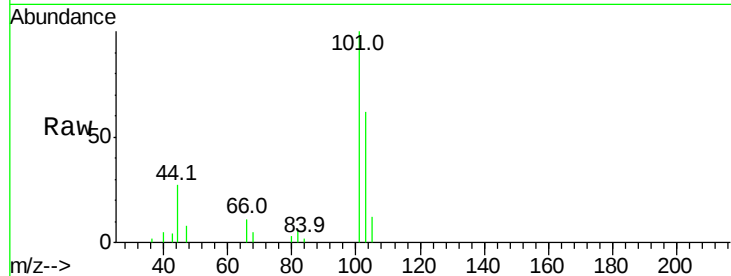




#11
 Trichlorofluoromethane
 Concen: 0.038 ppbv
 RT: 3.95 min Scan# 362
 Delta R.T. 0.01 min
 Lab File: VL035677.D
 Acq: 18 Sep 2020 8:50

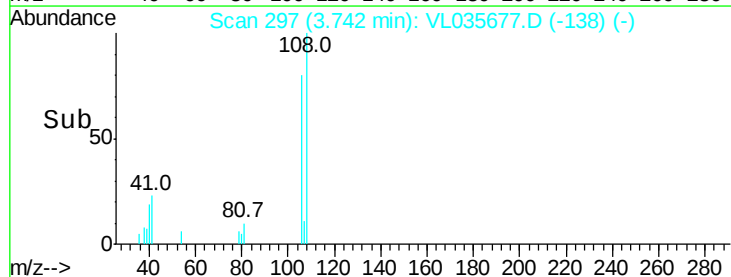
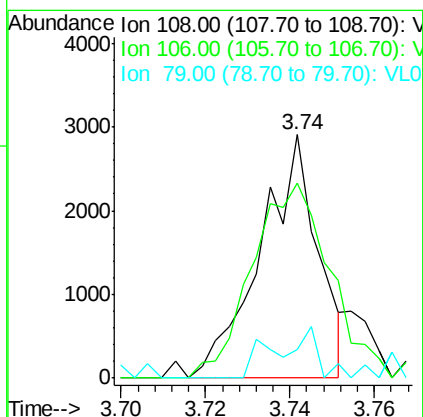
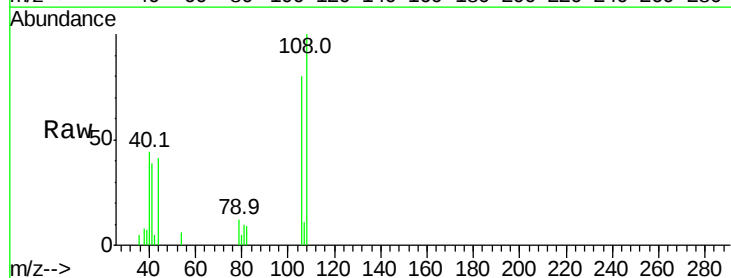
Instrument :
 MSVOA_L
 ClientSampleId :
 VIBLK

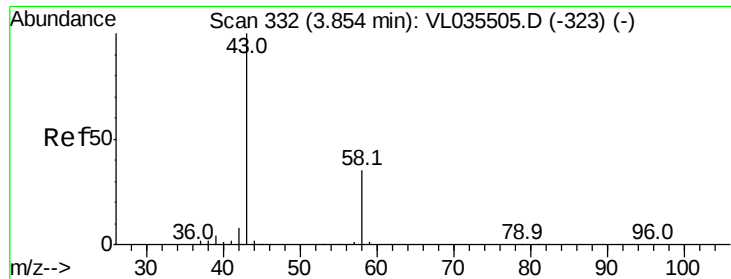
Tgt Ion:101 Resp: 9956
 Ion Ratio Lower Upper
 101 100
 103 62.2 54.5 81.7



#14
 Bromoethene
 Concen: 0.032 ppbv
 RT: 3.74 min Scan# 297
 Delta R.T. 0.01 min
 Lab File: VL035677.D
 Acq: 18 Sep 2020 8:50

Tgt Ion:108 Resp: 2751
 Ion Ratio Lower Upper
 108 100
 106 109.7 84.9 127.3
 79 18.6 10.8 16.2#





#15

Acetone

Concen: 0.356 ppbv

RT: 3.87 min Scan# 336

Delta R.T. 0.03 min

Lab File: VL035677.D

Acq: 18 Sep 2020 8:50

Instrument :

MSVOA_L

ClientSampleId :

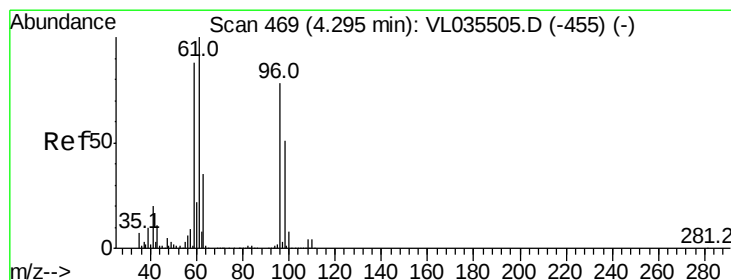
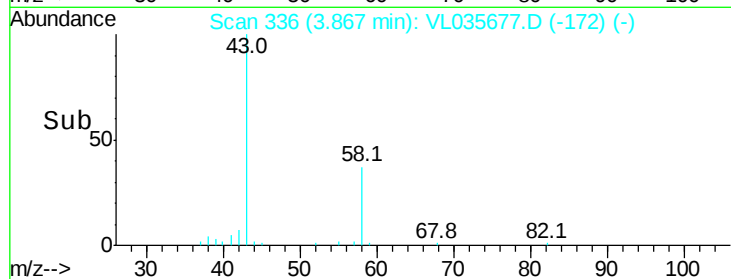
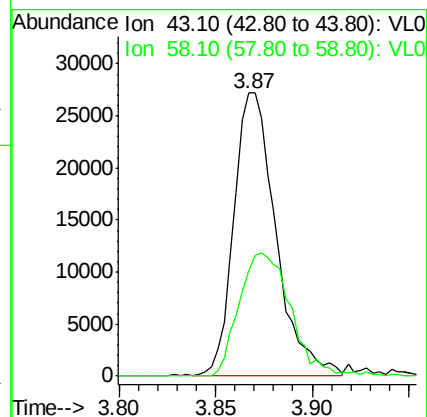
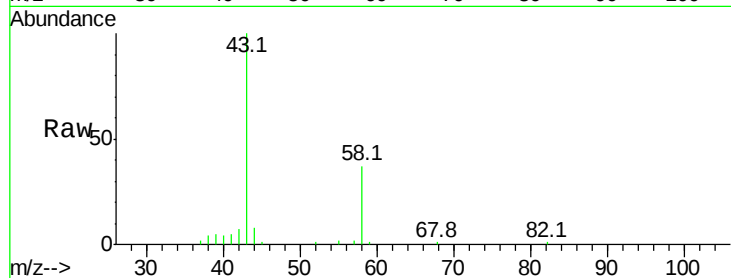
VIBLK

Tgt Ion: 43 Resp: 41129

Ion Ratio Lower Upper

43 100

58 53.4 28.4 42.6#



#18

1,1-Dichloroethene

Concen: 0.045 ppbv

RT: 4.29 min Scan# 468

Delta R.T. 0.01 min

Lab File: VL035677.D

Acq: 18 Sep 2020 8:50

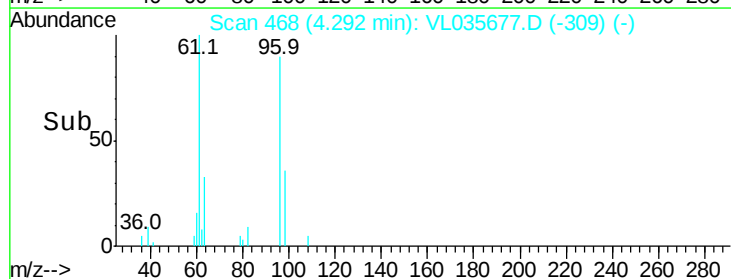
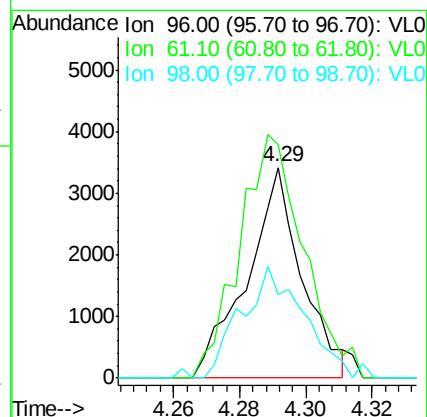
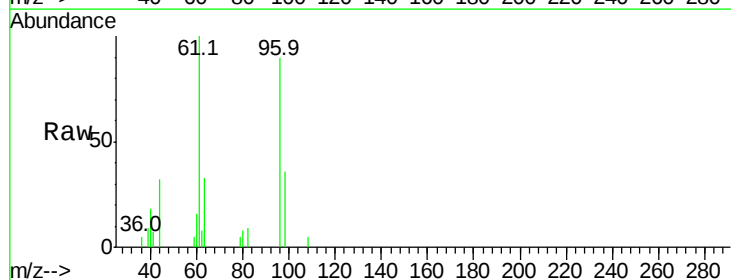
Tgt Ion: 96 Resp: 3939

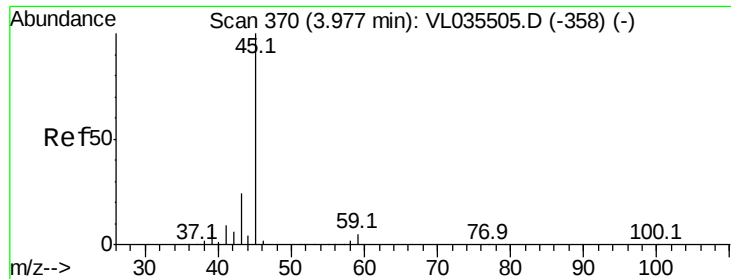
Ion Ratio Lower Upper

96 100

61 110.6 103.0 154.6

98 39.5 52.8 79.2#





#19

Isopropyl Alcohol

Concen: 0.045 ppbv

RT: 4.00 min Scan# 376

Delta R.T. 0.04 min

Lab File: VL035677.D

Acq: 18 Sep 2020 8:50

Instrument :

MSVOA_L

ClientSampleId :

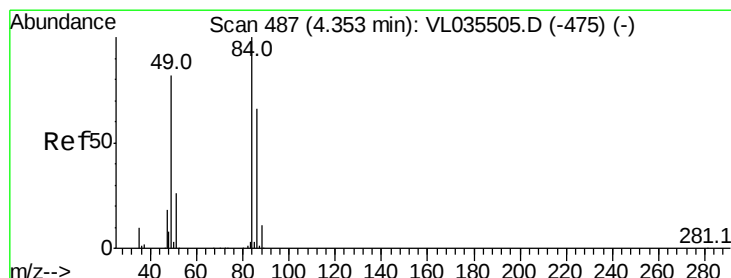
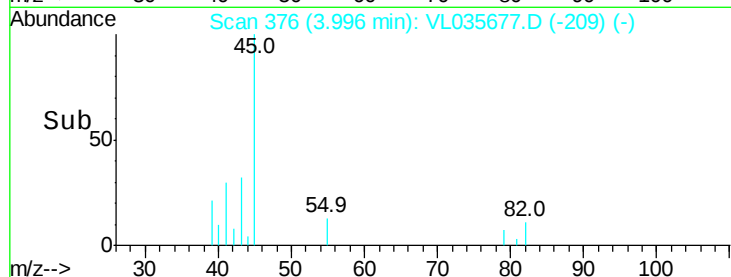
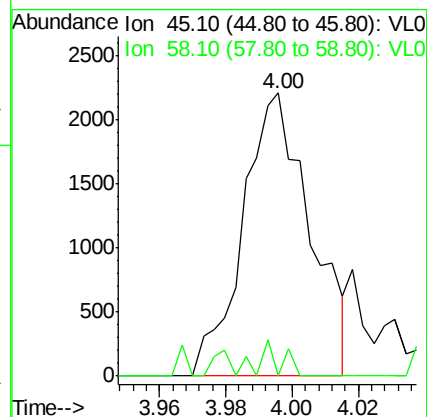
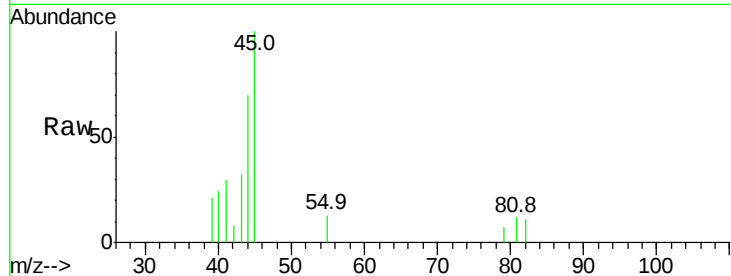
VIBLK

Tgt Ion: 45 Resp: 3118

Ion Ratio Lower Upper

45 100

58 0.0 2.0 3.0#



#20

Methylene Chloride

Concen: 0.229 ppbv

RT: 4.34 min Scan# 484

Delta R.T. 0.01 min

Lab File: VL035677.D

Acq: 18 Sep 2020 8:50

Tgt Ion: 84 Resp: 19739

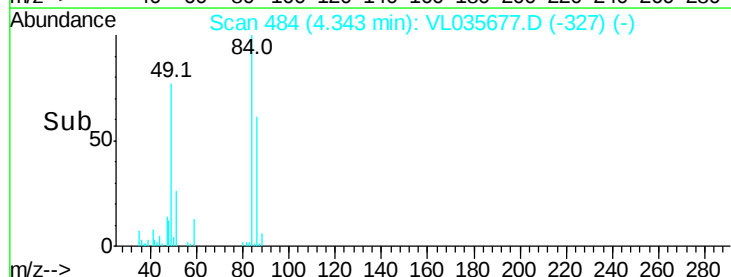
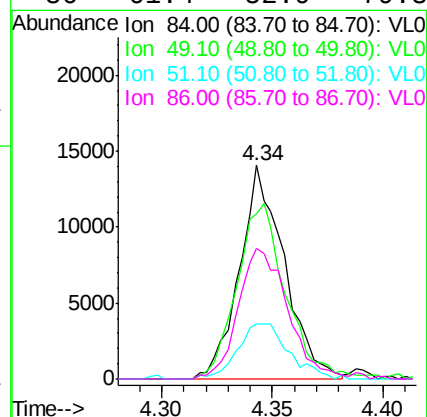
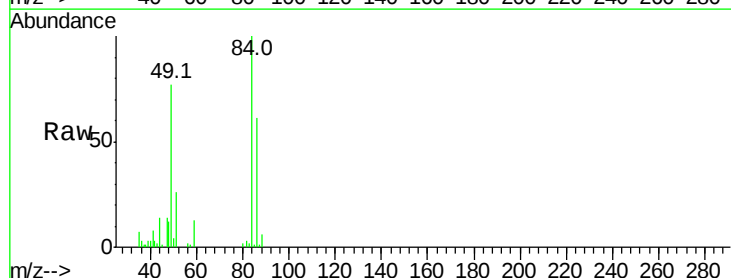
Ion Ratio Lower Upper

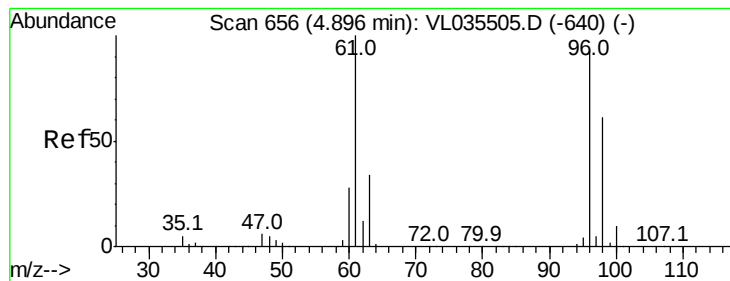
84 100

49 77.1 65.4 98.0

51 25.7 21.5 32.3

86 61.4 52.9 79.3





#22

trans-1,2-Dichloroethene

Concen: 0.031 ppbv

RT: 4.89 min Scan# 654

Delta R.T. 0.01 min

Lab File: VL035677.D

Acq: 18 Sep 2020 8:50

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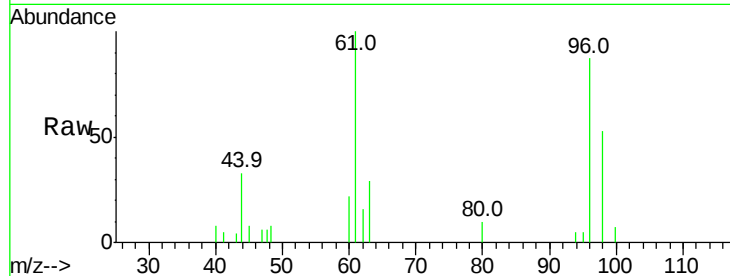
Tgt Ion: 96 Resp: 2937

Ion Ratio Lower Upper

96 100

61 114.8 86.0 129.0

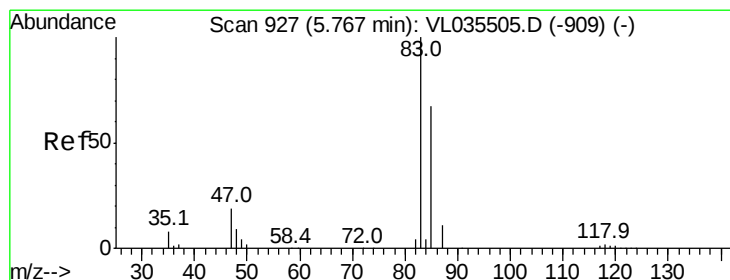
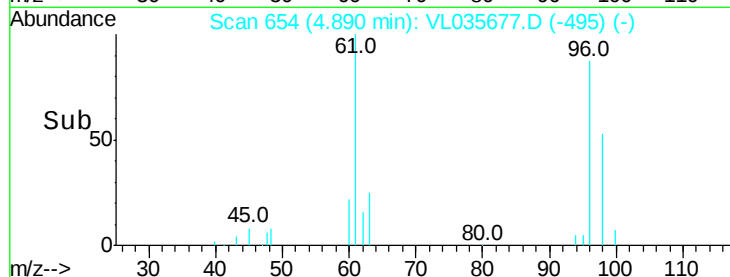
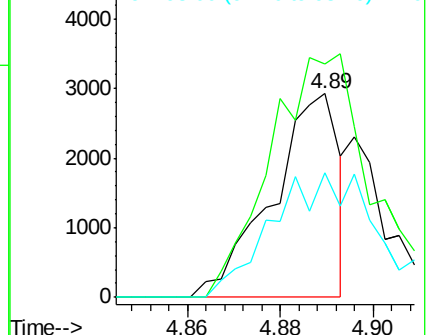
98 60.9 52.3 78.5



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



#29

Chloroform

Concen: 0.051 ppbv

RT: 5.75 min Scan# 922

Delta R.T. 0.00 min

Lab File: VL035677.D

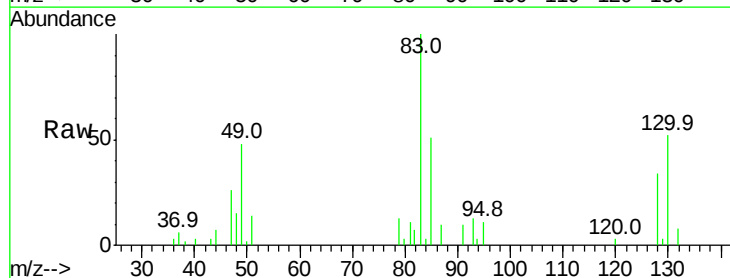
Acq: 18 Sep 2020 8:50

Tgt Ion: 83 Resp: 12018

Ion Ratio Lower Upper

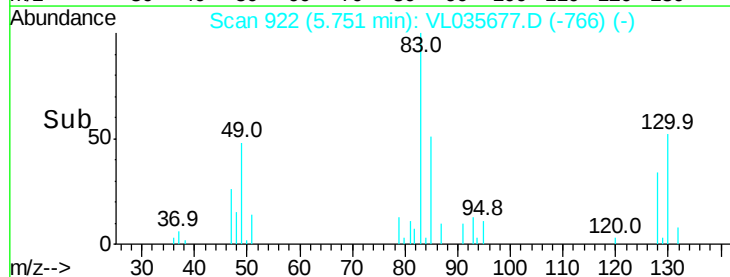
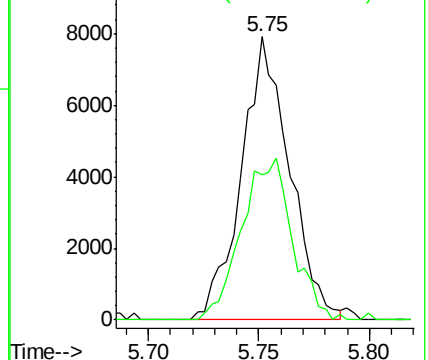
83 100

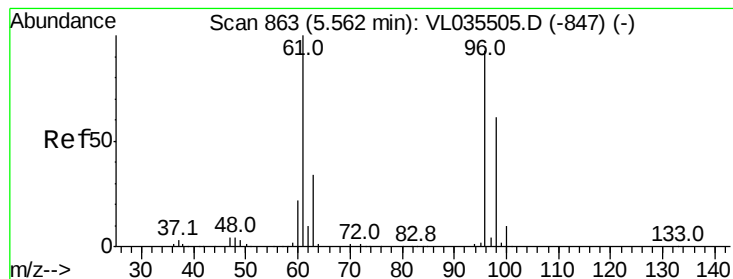
85 51.2 53.9 80.9#



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0





#31

cis-1,2-Dichloroethene

Concen: 0.213 ppbv

RT: 5.55 min Scan# 859

Delta R.T. 0.00 min

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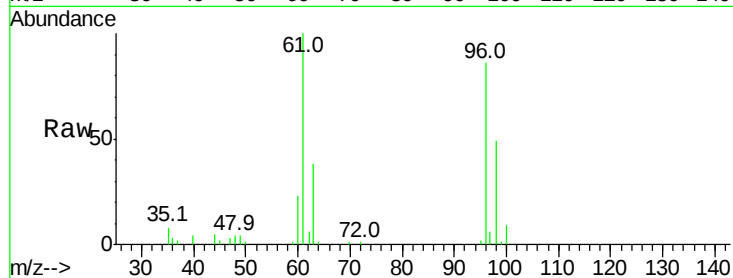
Tgt Ion: 61 Resp: 25313

Ion Ratio Lower Upper

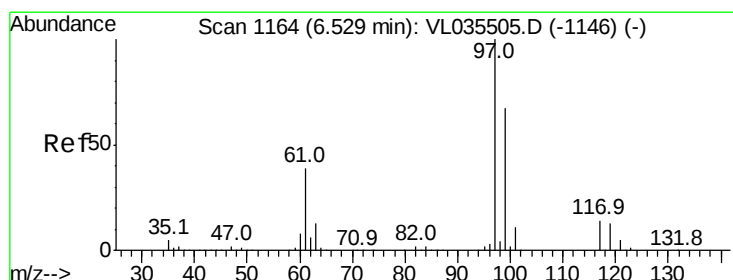
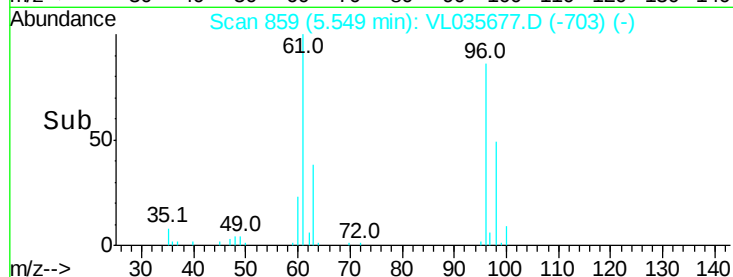
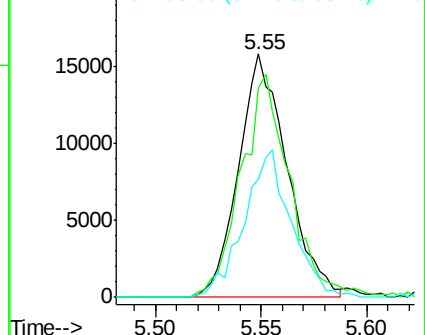
61 100

96 86.0 74.4 111.6

98 48.5 49.2 73.8#



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



#32

1,1,1-Trichloroethane

Concen: 0.030 ppbv

RT: 6.51 min Scan# 1158

Delta R.T. -0.00 min

Lab File: VL035677.D

Acq: 18 Sep 2020 8:50

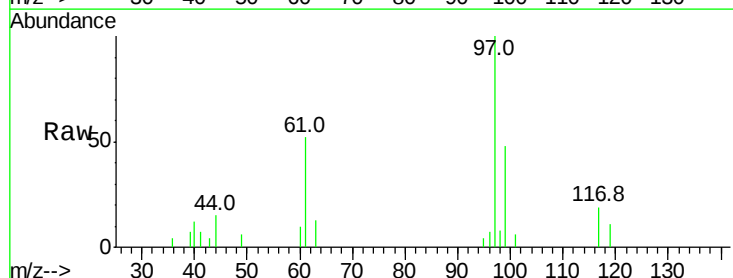
Tgt Ion: 97 Resp: 6931

Ion Ratio Lower Upper

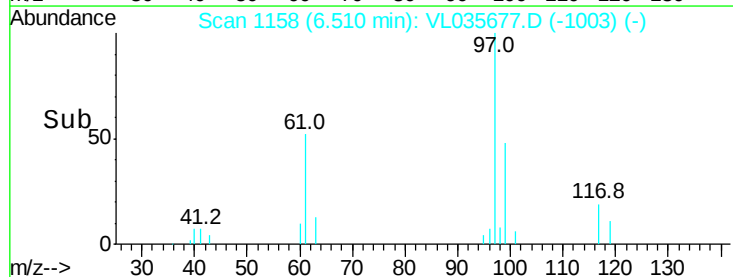
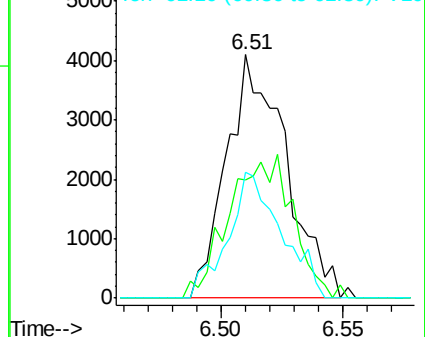
97 100

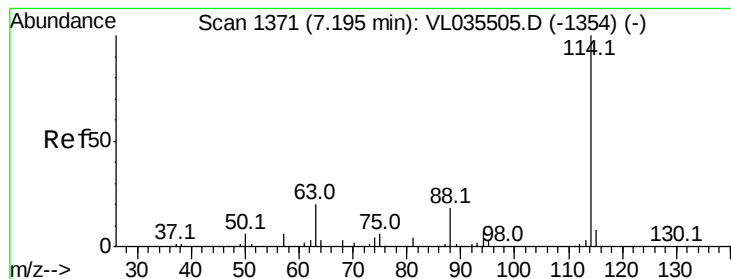
99 63.3 53.3 79.9

61 46.6 30.6 46.0#



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 min Scan# 1367

Delta R.T. 0.01 min

Lab File: VL035677.D

Acq: 18 Sep 2020 8:50

Instrument :

MSVOA_L

ClientSampled :

VIBLK

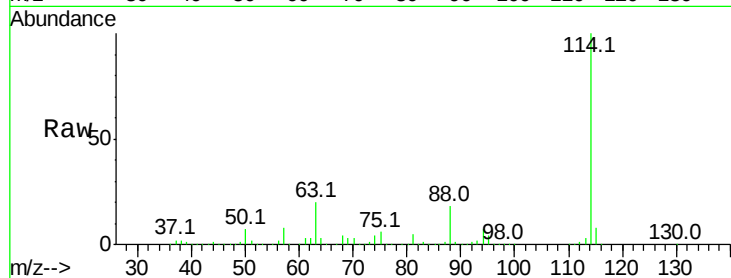
Tgt Ion:114 Resp: 4115065

Ion Ratio Lower Upper

114 100

63 19.1 14.7 22.1

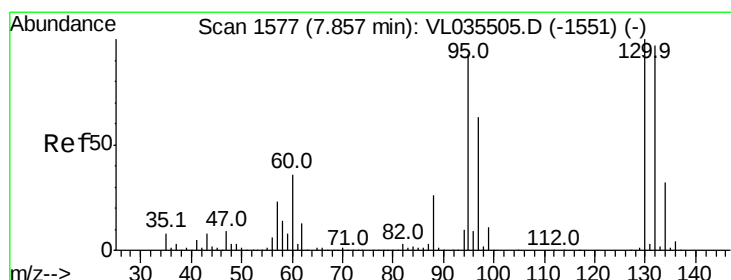
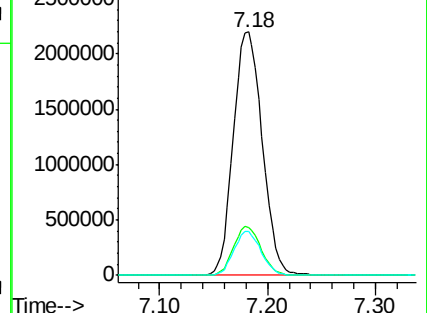
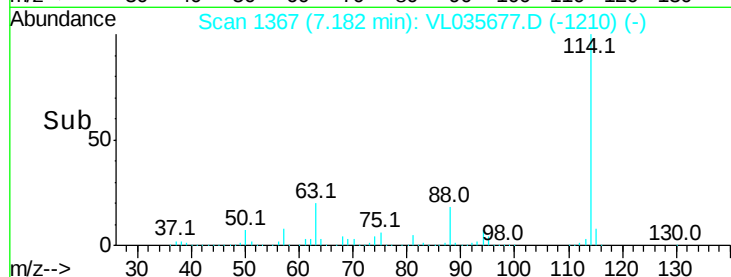
88 17.1 13.4 20.2



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



#38

Trichloroethene

Concen: 0.856 ppbv

RT: 7.84 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VL035677.D

Acq: 18 Sep 2020 8:50

Tgt Ion:130 Resp: 132457

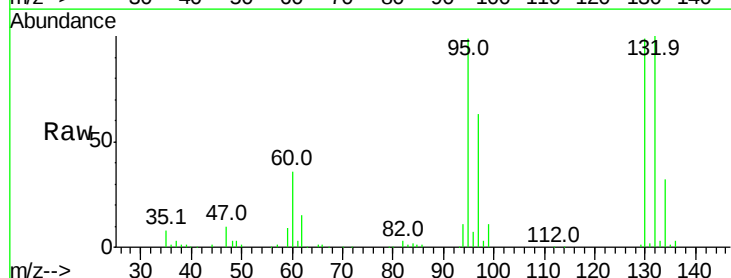
Ion Ratio Lower Upper

130 100

95 100.3 74.6 112.0

132 100.8 77.6 116.4

97 63.5 50.6 76.0

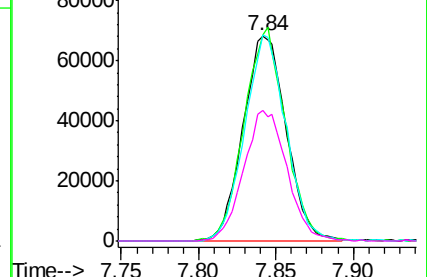
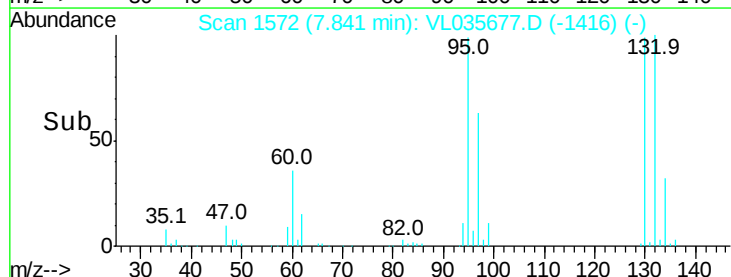


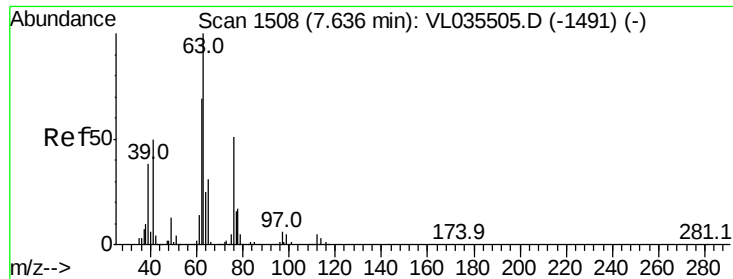
Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0





#39

1,2-Dichloropropane

Concen: 8.713 ppbv

RT: 7.18 min Scan# 1366

Delta R.T. -0.43 min

Lab File: VL035677.D

Acq: 18 Sep 2020 8:50

Instrument :

MSVOA_L

ClientSampleId :

VIBLK

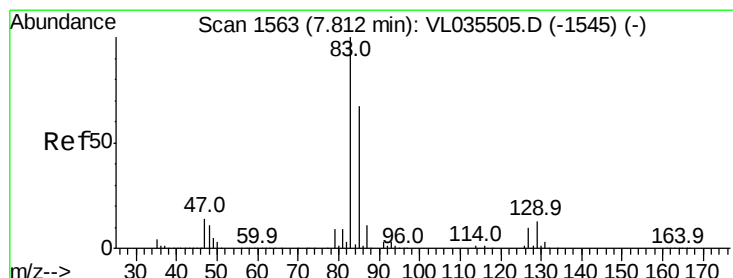
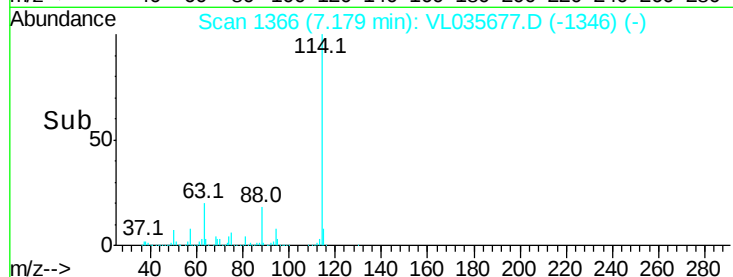
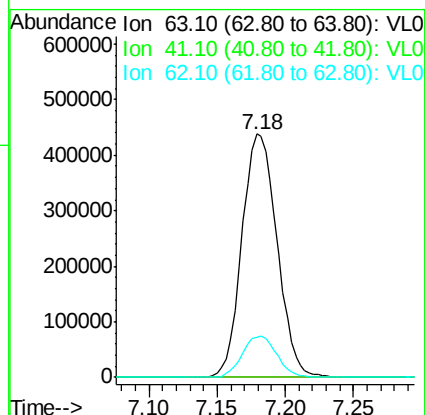
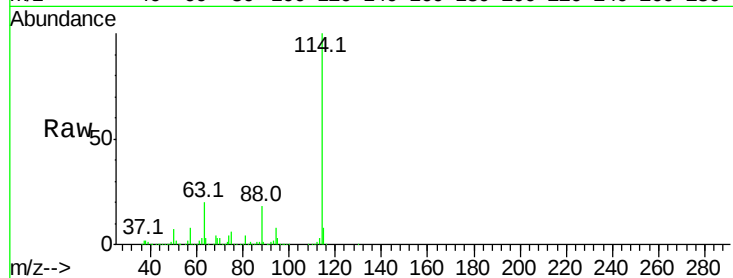
Tgt Ion: 63 Resp: 784056

Ion Ratio Lower Upper

63 100

41 0.1 40.0 60.0#

62 16.3 55.4 83.0#



#42

Bromodichloromethane

Concen: 0.033 ppbv

RT: 7.80 min Scan# 1559

Delta R.T. 0.00 min

Lab File: VL035677.D

Acq: 18 Sep 2020 8:50

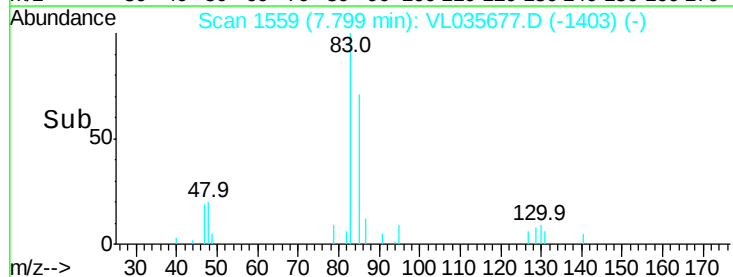
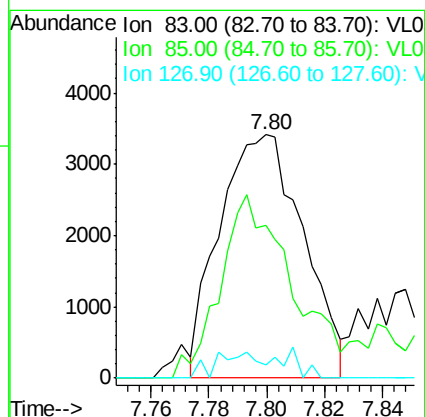
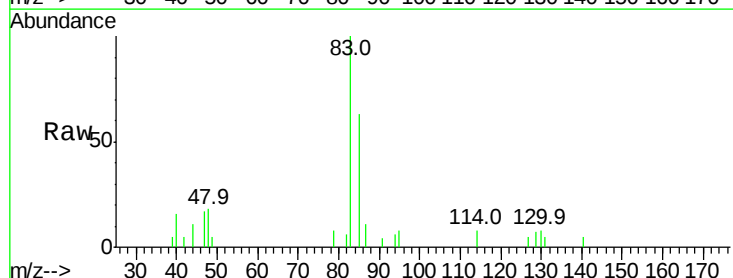
Tgt Ion: 83 Resp: 6845

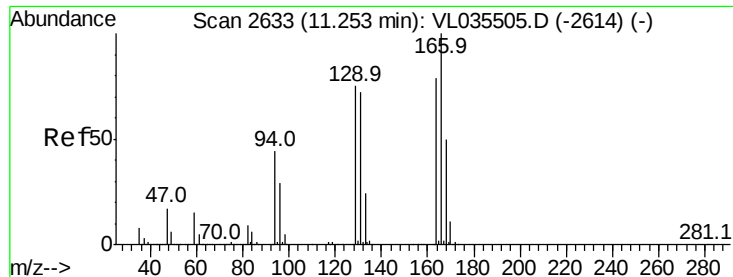
Ion Ratio Lower Upper

83 100

85 61.7 53.7 80.5

127 5.7 8.1 12.1#





#52

Tetrachloroethene

Concen: 7.495 ppbv

RT: 11.24 min Scan# 2630

Delta R.T. 0.01 min

Lab File: VL035677.D

Acq: 18 Sep 2020 8:50

Instrument :

MSVOA_L

ClientSampleId :

VIBLK

Tgt Ion:164 Resp: 1166384

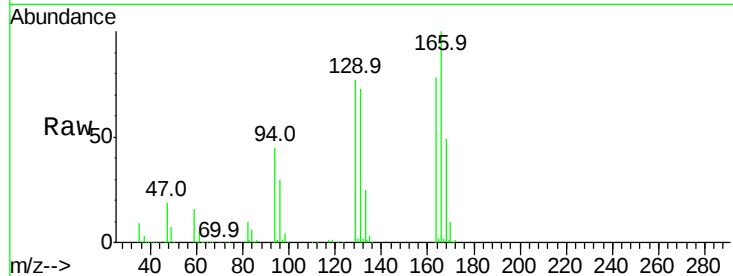
Ion Ratio Lower Upper

164 100

166 127.8 100.9 151.3

129 97.9 75.3 112.9

131 92.9 73.0 109.4

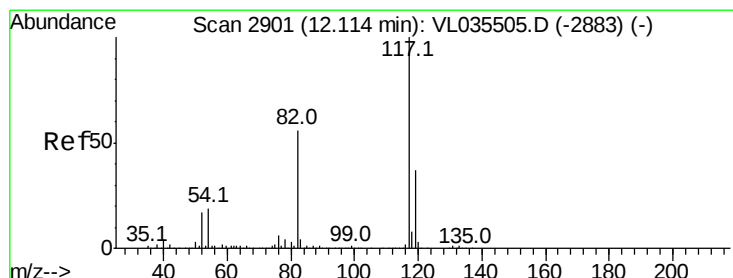
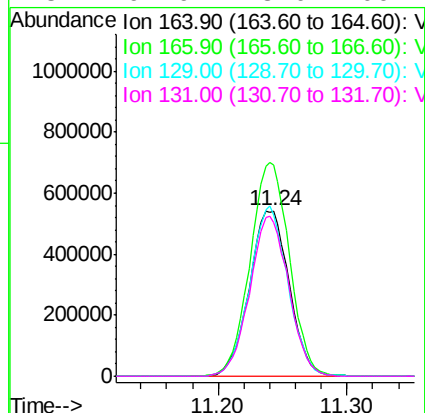
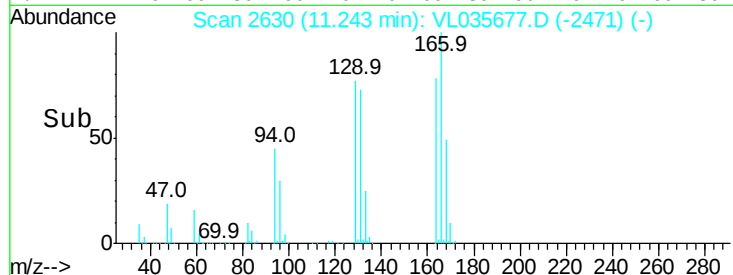


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2897

Delta R.T. 0.01 min

Lab File: VL035677.D

Acq: 18 Sep 2020 8:50

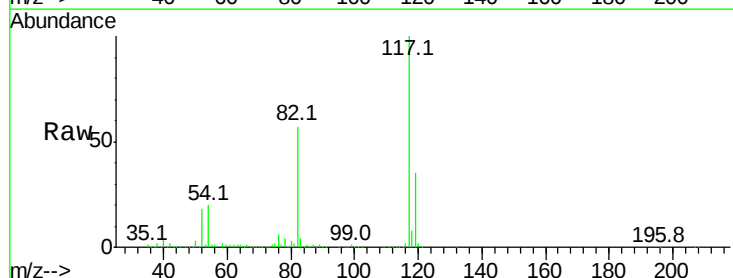
Tgt Ion:117 Resp: 4097796

Ion Ratio Lower Upper

117 100

82 56.8 41.6 62.4

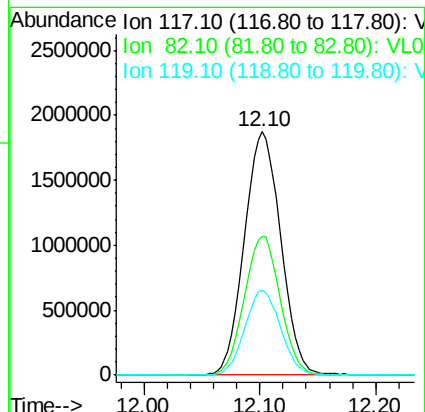
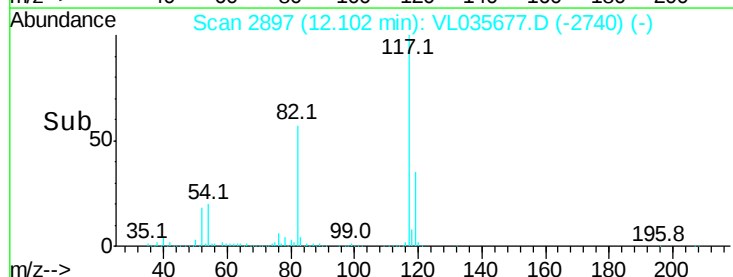
119 34.4 29.3 43.9

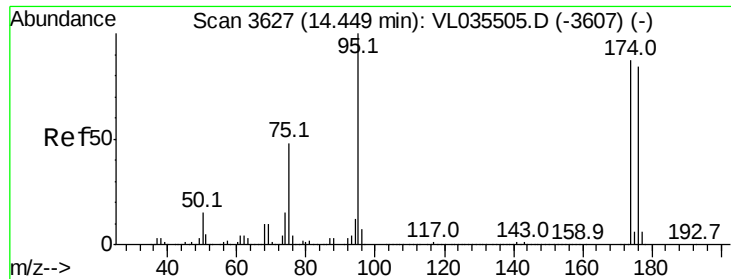


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 10.272 ppbv

RT: 14.44 min Scan# 3623

Delta R.T. 0.01 min

Lab File: VL035677.D

Acq: 18 Sep 2020 8:50

Instrument :

MSVOA_L

ClientSampleId :

VIBLK

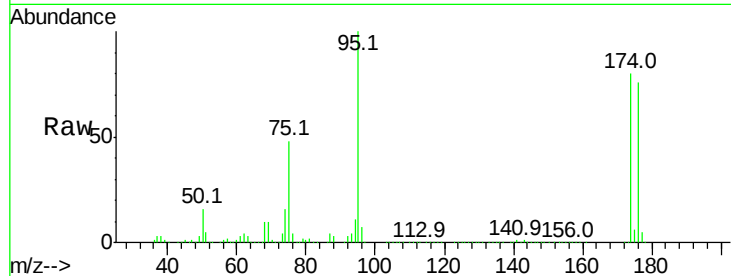
Tgt Ion: 95 Resp: 2989216

Ion Ratio Lower Upper

95 100

174 78.5 69.6 104.4

175 5.6 5.1 7.7



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

