

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081720\
 Data File : VL035441.D
 Acq On : 18 Aug 2020 12:02
 Operator : SY/AP
 Sample : L3510-01DL 4X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 E053-1100DL

Quant Time: Aug 19 17:03:11 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug 17 19:28:30 2020
 QLast Update : Mon Aug 17 19:28:30 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1036787	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	4492449	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	4491988	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	3242701	10.31	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.10%

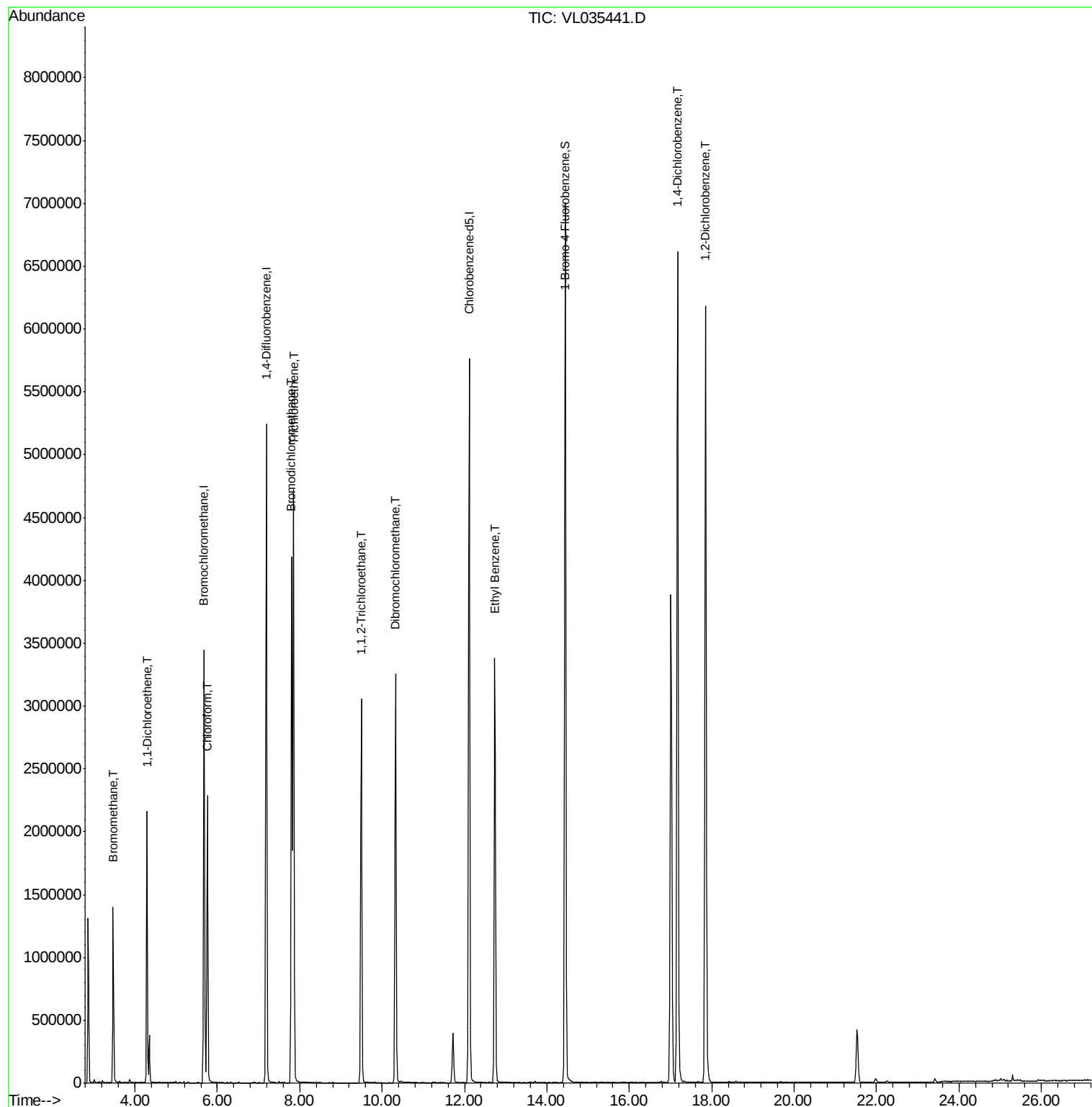
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
6) Bromomethane	3.47	94	745342	10.530	ppbv	99
18) 1,1-Dichloroethene	4.29	96	776486	7.827	ppbv #	59
29) Chloroform	5.76	83	1596782	6.065	ppbv	99
38) Trichloroethene	7.85	130	1763170	9.613	ppbv #	82
42) Bromodichloromethane	7.81	83	2857081	11.331	ppbv #	98
47) 1,1,2-Trichloroethane	9.49	97	1198538	7.384	ppbv	92
48) Dibromochloromethane	10.32	129	2165242	7.952	ppbv	99
58) Ethyl Benzene	12.74	91	3236945	5.969	ppbv #	89
76) 1,4-Dichlorobenzene	17.17	146	4344699	9.657	ppbv	91
77) 1,2-Dichlorobenzene	17.85	146	4153559	9.289	ppbv	91

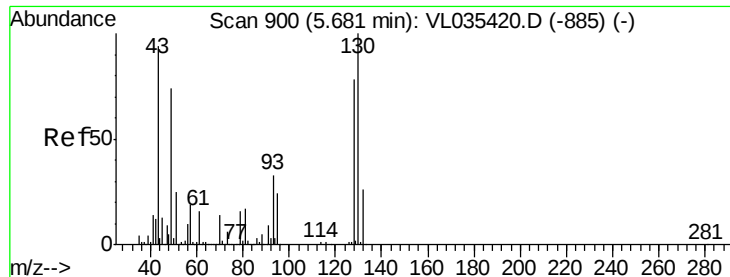
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Aug 19 17:03:11 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL081720AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug 17 19:28:30 2020
QLast Update : Mon Aug 17 19:28:30 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 898

Delta R.T. 0.00 min

Lab File: VL035441.D

Acq: 18 Aug 2020 12:02

Instrument :

MSVOA_L

ClientSampleId :

E053-1100DL

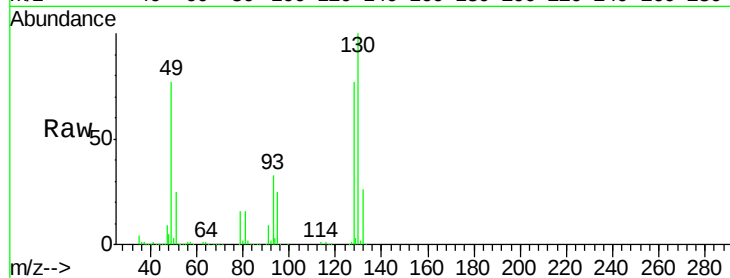
Tot Ion: 49 Resp: 1036787

Ion Ratio Lower Upper

49 100

128 100.2 20.9 62.7#

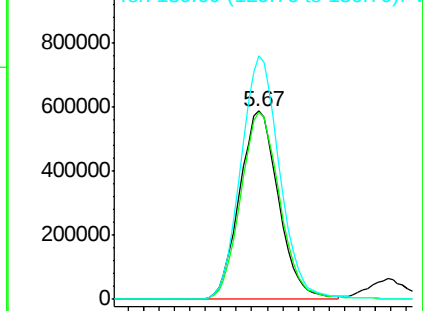
130 129.6 26.7 80.1#



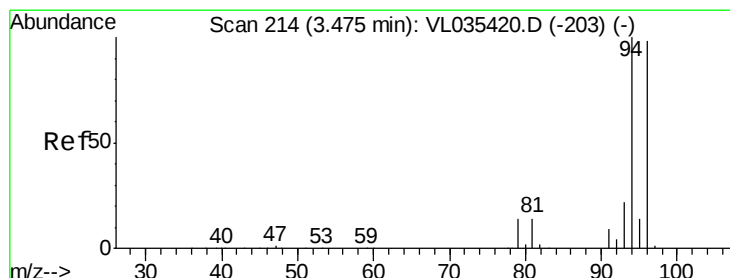
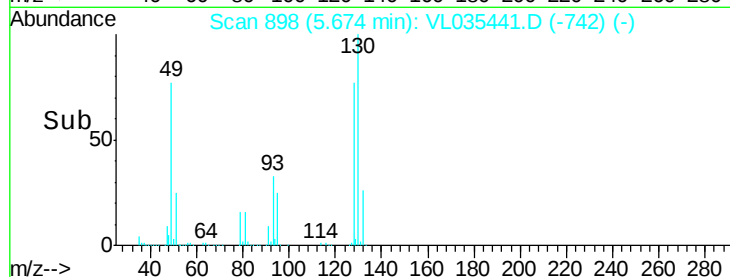
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



Time-->



#6

Bromomethane

Concen: 10.530 ppbv

RT: 3.47 min Scan# 213

Delta R.T. 0.00 min

Lab File: VL035441.D

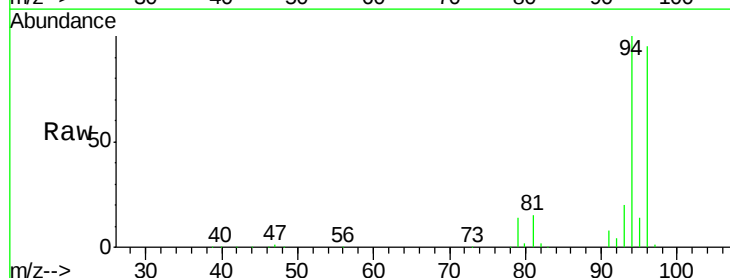
Acq: 18 Aug 2020 12:02

Tgt Ion: 94 Resp: 745342

Ion Ratio Lower Upper

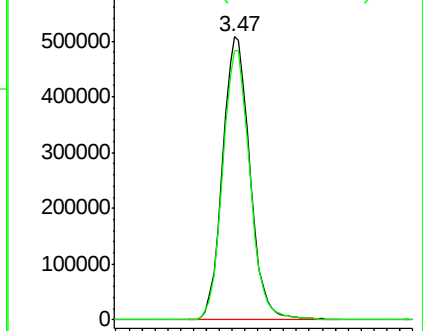
94 100

96 95.1 75.0 112.6

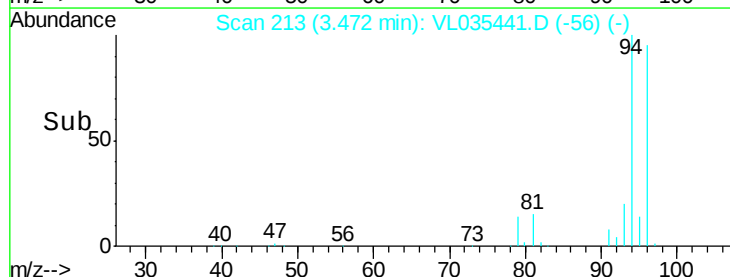


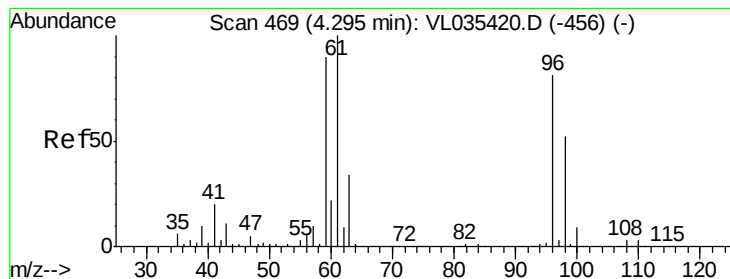
Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0



Time-->





#18

1,1-Dichloroethene

Concen: 7.827 ppbv

RT: 4.29 min Scan# 468

Delta R.T. 0.00 min

Lab File: VL035441.D

Acq: 18 Aug 2020 12:02

Instrument :

MSVOA_L

ClientSampleId :

E053-1100DL

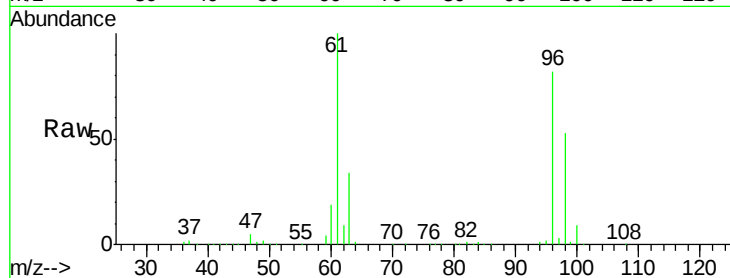
Tot Ion: 96 Resp: 776486

Ion Ratio Lower Upper

96 100

61 122.2 161.8 242.6#

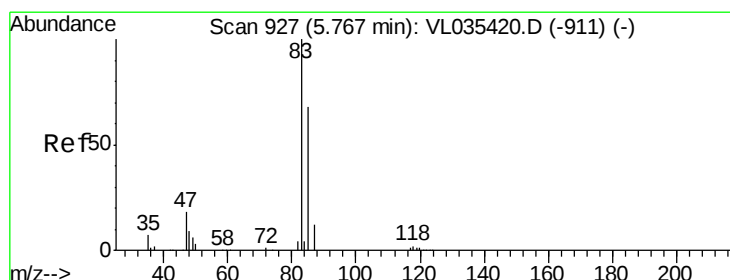
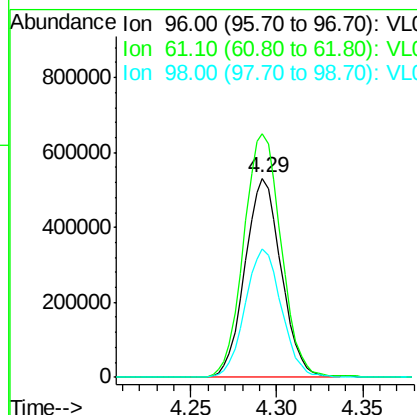
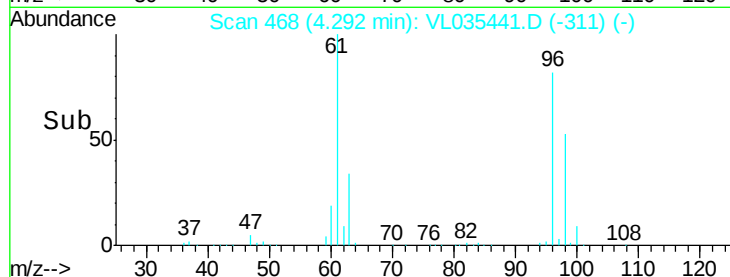
98 64.7 49.3 73.9



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: 6.065 ppbv

RT: 5.76 min Scan# 924

Delta R.T. -0.00 min

Lab File: VL035441.D

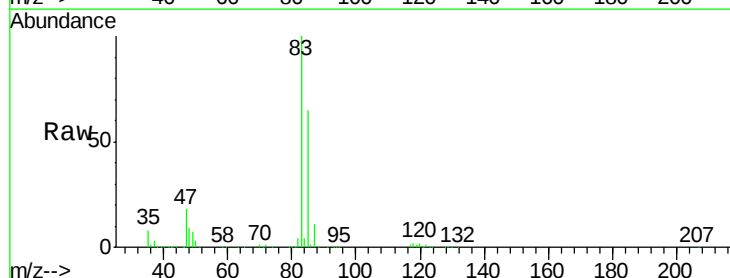
Acq: 18 Aug 2020 12:02

Tgt Ion: 83 Resp: 1596782

Ion Ratio Lower Upper

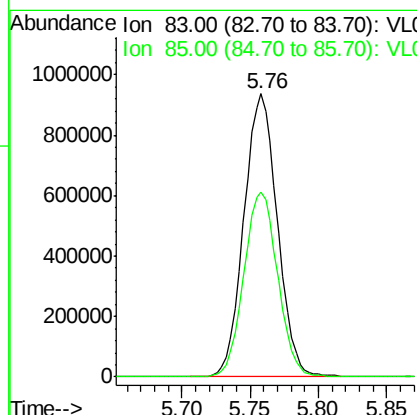
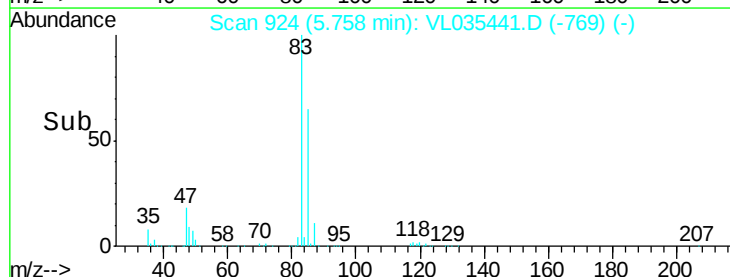
83 100

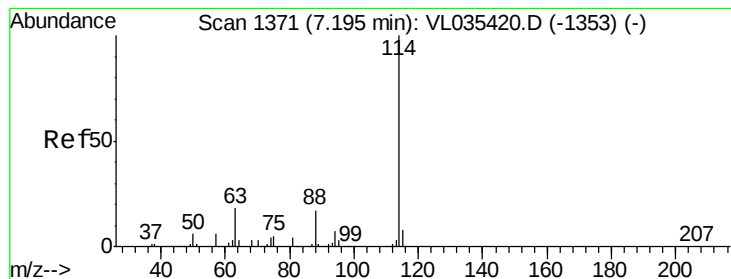
85 65.3 52.7 79.1



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.19 min Scan# 1369

Delta R.T. 0.00 min

Lab File: VL035441.D

Acq: 18 Aug 2020 12:02

Instrument :

MSVOA_L

ClientSampleId :

E053-1100DL

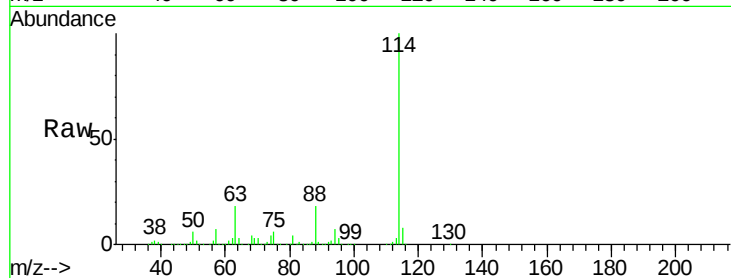
Tot Ion:114 Resp: 4492449

Ion Ratio Lower Upper

114 100

63 17.6 23.1 34.7#

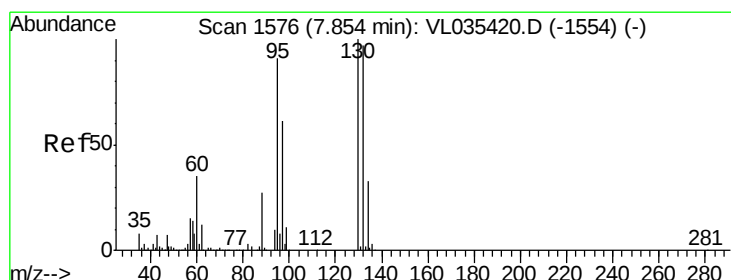
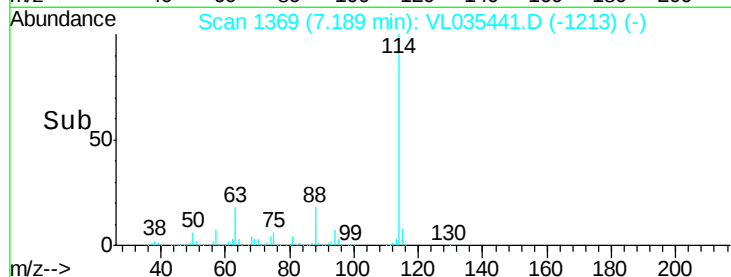
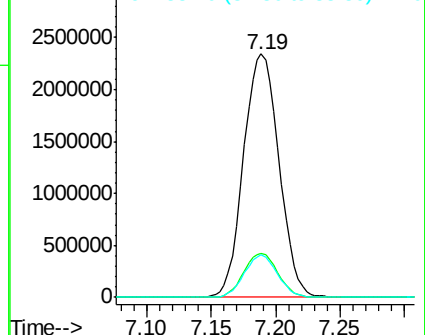
88 16.3 15.9 23.9



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: 9.613 ppbv

RT: 7.85 min Scan# 1574

Delta R.T. -0.00 min

Lab File: VL035441.D

Acq: 18 Aug 2020 12:02

Tgt Ion:130 Resp: 1763170

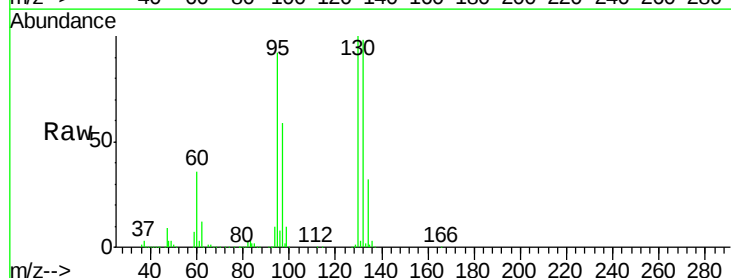
Ion Ratio Lower Upper

130 100

95 92.0 95.8 143.8#

132 98.0 74.3 111.5

97 59.4 62.6 94.0#

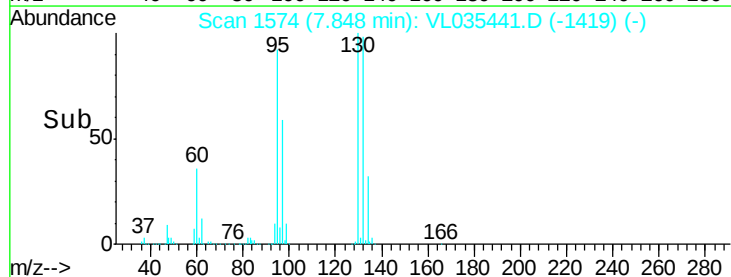
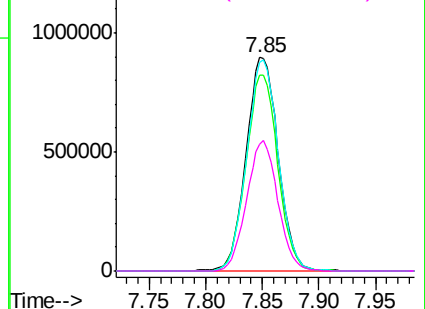


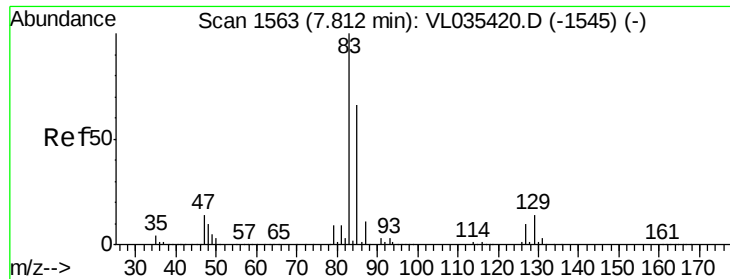
Abundance Ion 130.00 (129.70 to 130.70): V

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





#42

Bromodichloromethane

Concen: 11.331 ppbv

RT: 7.81 min Scan# 1561

Delta R.T. 0.00 min

Lab File: VL035441.D

Acq: 18 Aug 2020 12:02

Instrument :

MSVOA_L

ClientSampleId :

E053-1100DL

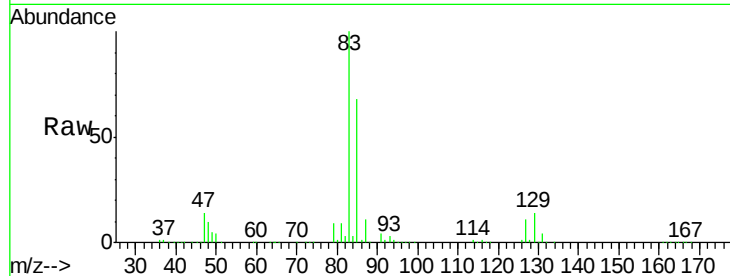
Tot Ion: 83 Resp: 2857081

Ion Ratio Lower Upper

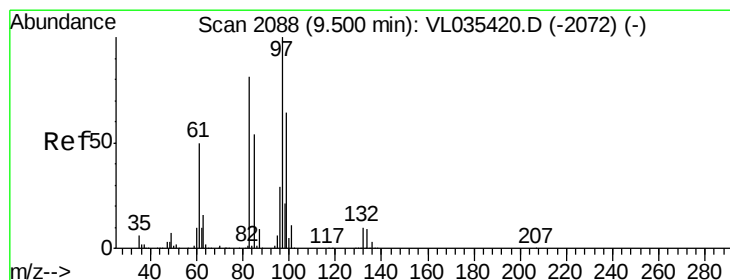
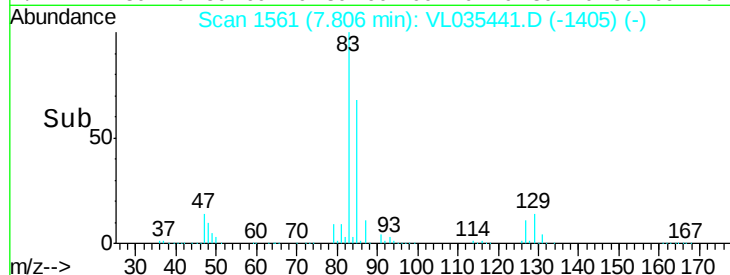
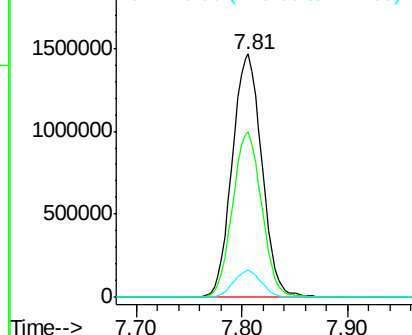
83 100

85 67.8 54.8 82.2

127 11.0 6.1 9.1#



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0
Ion 126.90 (126.60 to 127.60): V



#47

1,1,2-Trichloroethane

Concen: 7.384 ppbv

RT: 9.49 min Scan# 2086

Delta R.T. 0.00 min

Lab File: VL035441.D

Acq: 18 Aug 2020 12:02

Tgt Ion: 97 Resp: 1198538

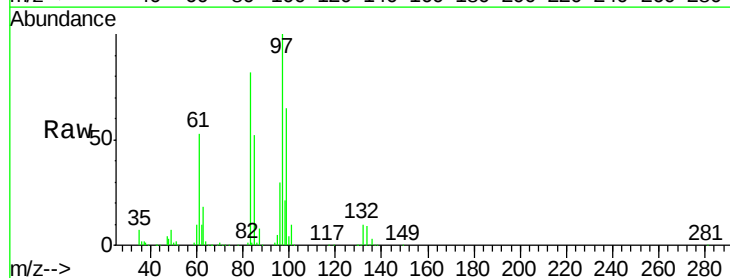
Ion Ratio Lower Upper

97 100

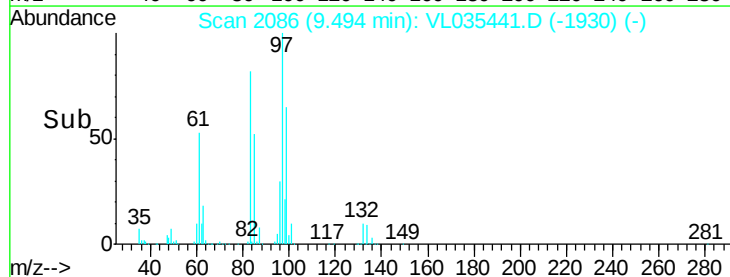
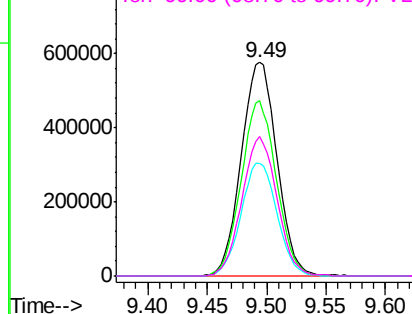
83 82.0 72.1 108.1

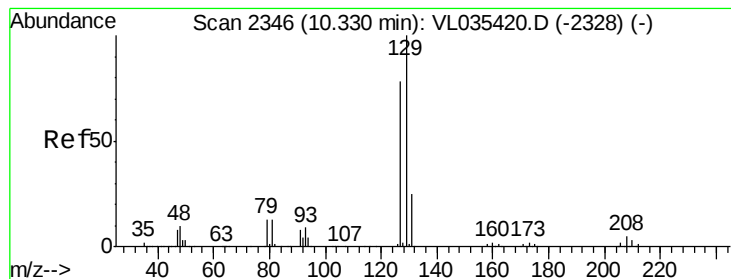
85 52.5 46.8 70.2

99 65.1 48.6 73.0



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0
Ion 99.00 (98.70 to 99.70): VL0





#48

Dibromochloromethane

Concen: 7.952 ppbv

RT: 10.32 min Scan# 2344

Delta R.T. 0.00 min

Lab File: VL035441.D

Acq: 18 Aug 2020 12:02

Instrument :

MSVOA_L

ClientSampleId :

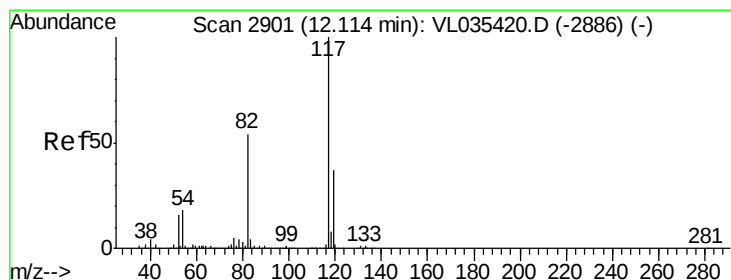
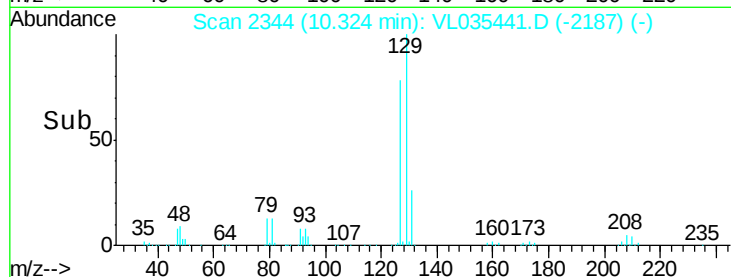
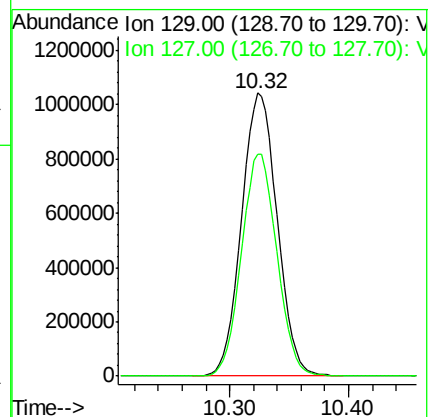
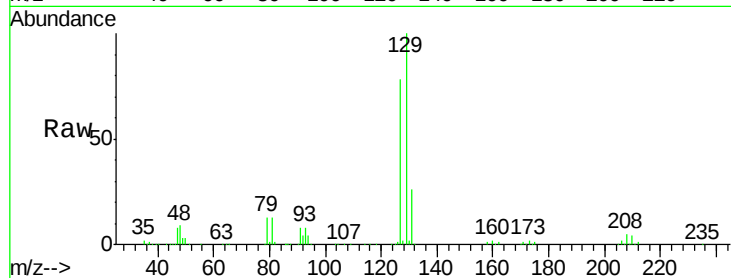
E053-1100DL

Tot Ion:129 Resp: 2165242

Ion Ratio Lower Upper

129 100

127 78.2 39.5 118.5



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2900

Delta R.T. 0.00 min

Lab File: VL035441.D

Acq: 18 Aug 2020 12:02

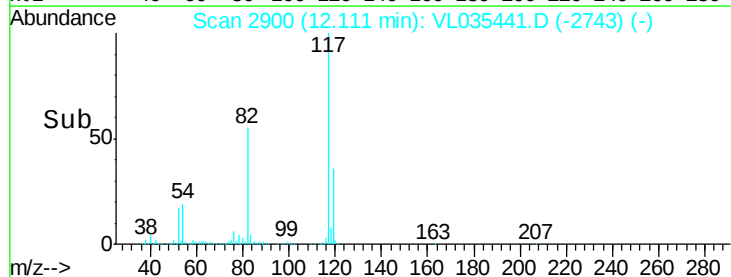
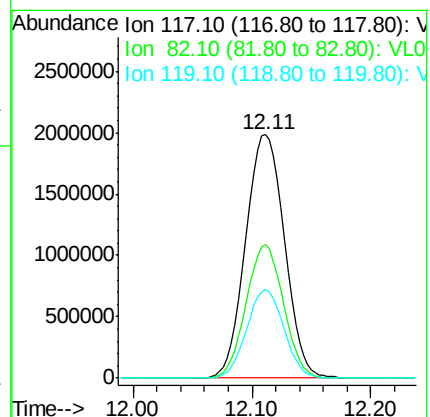
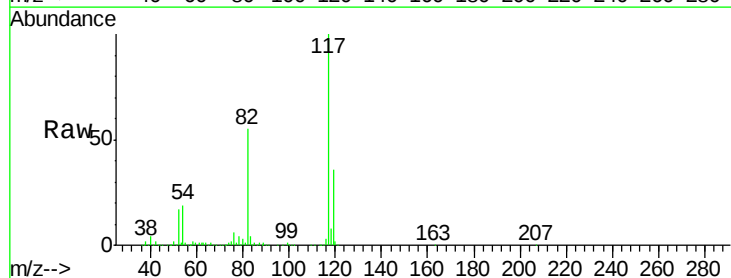
Tgt Ion:117 Resp: 4491988

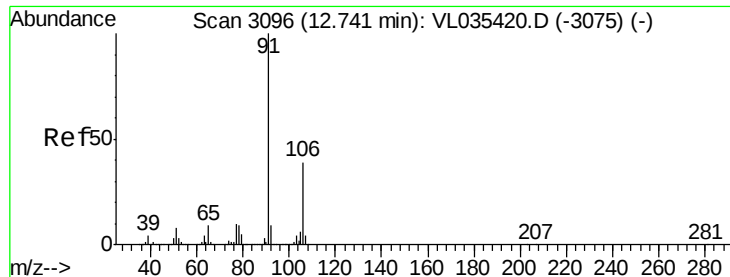
Ion Ratio Lower Upper

117 100

82 53.1 57.4 86.0#

119 34.8 28.4 42.6





#58

Ethyl Benzene

Concen: 5.969 ppbv

RT: 12.74 min Scan# 3095

Delta R.T. 0.01 min

Lab File: VL035441.D

Acq: 18 Aug 2020 12:02

Instrument :

MSVOA_L

ClientSampleId :

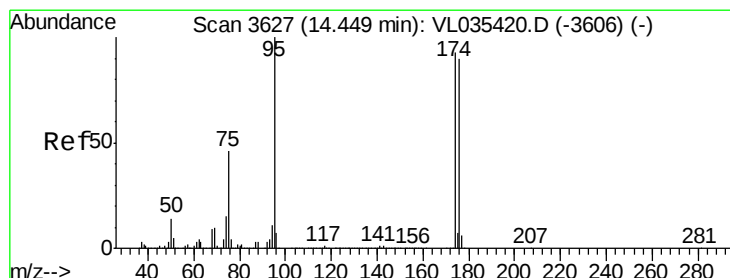
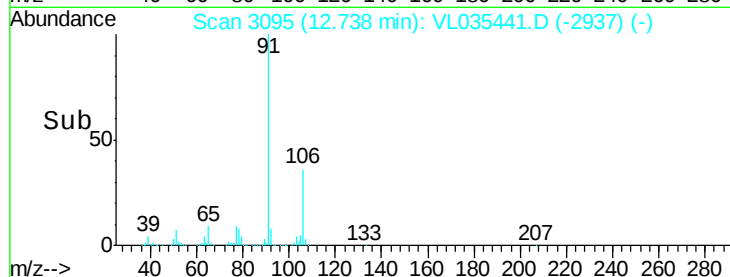
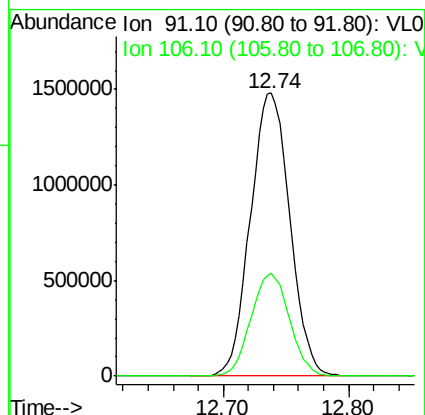
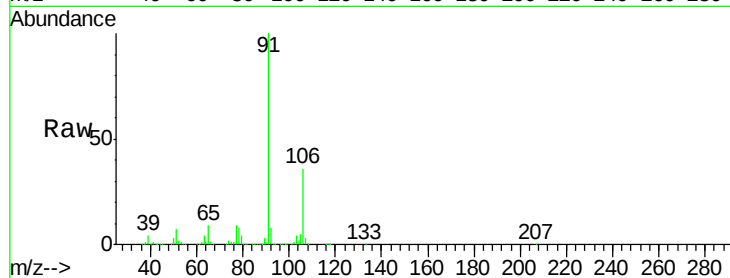
E053-1100DL

Tot Ion: 91 Resp: 3236945

Ion Ratio Lower Upper

91 100

106 36.2 24.1 36.1#



#68

1-Bromo-4-Fluorobenzene

Concen: 10.311 ppbv

RT: 14.44 min Scan# 3625

Delta R.T. 0.00 min

Lab File: VL035441.D

Acq: 18 Aug 2020 12:02

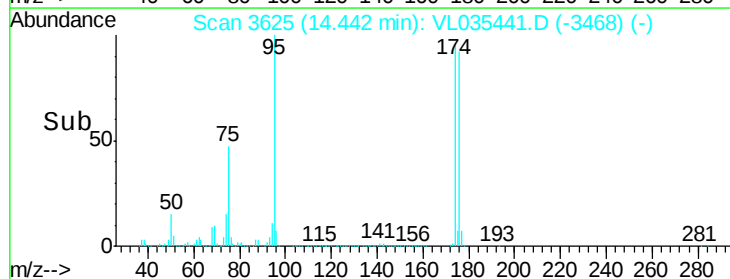
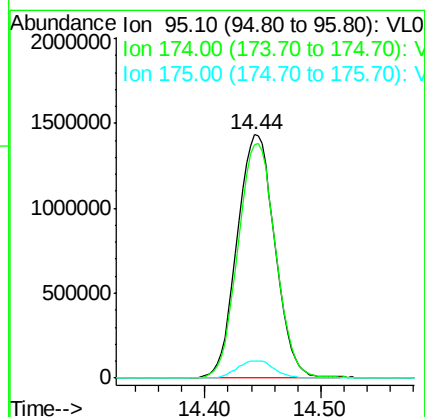
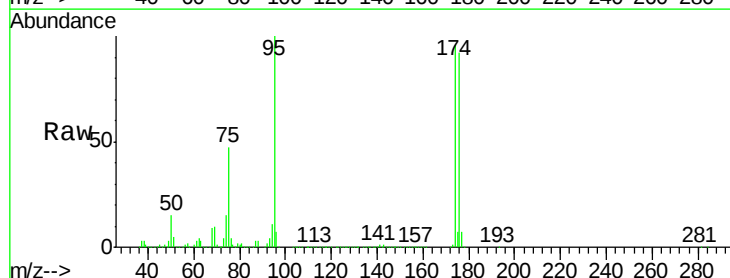
Tgt Ion: 95 Resp: 3242701

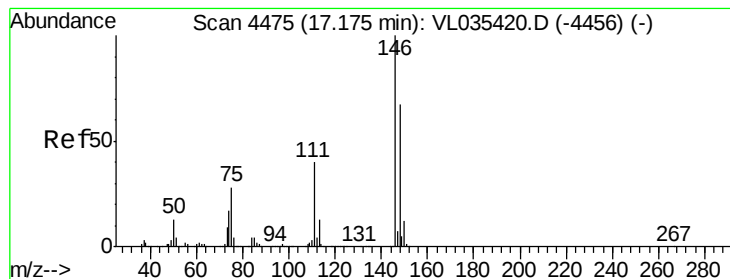
Ion Ratio Lower Upper

95 100

174 96.6 44.0 66.0#

175 7.0 3.2 4.8#





#76

1,4-Dichlorobenzene

Concen: 9.657 ppbv

RT: 17.17 min Scan# 4474

Delta R.T. 0.01 min

Lab File: VL035441.D

Acq: 18 Aug 2020 12:02

Instrument :

MSVOA_L

ClientSampleId :

E053-1100DL

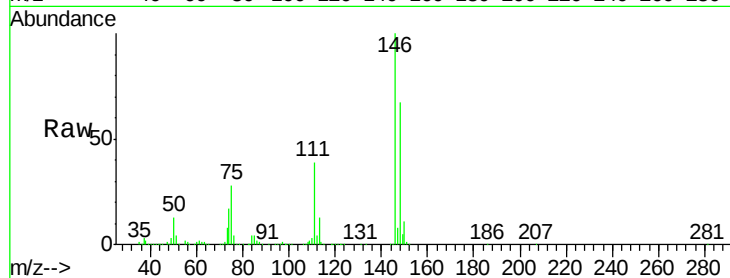
Tot Ion:146 Resp: 4344699

Ion Ratio Lower Upper

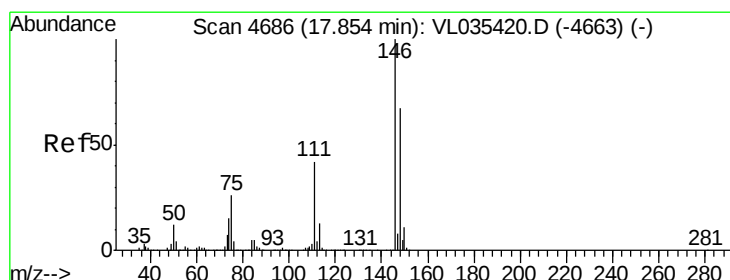
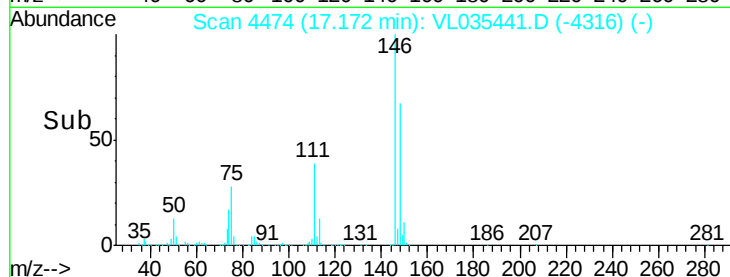
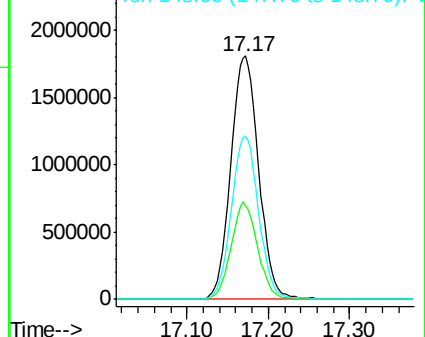
146 100

111 38.0 24.8 74.4

148 66.0 32.1 96.3



Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V



#77

1,2-Dichlorobenzene

Concen: 9.289 ppbv

RT: 17.85 min Scan# 4685

Delta R.T. 0.00 min

Lab File: VL035441.D

Acq: 18 Aug 2020 12:02

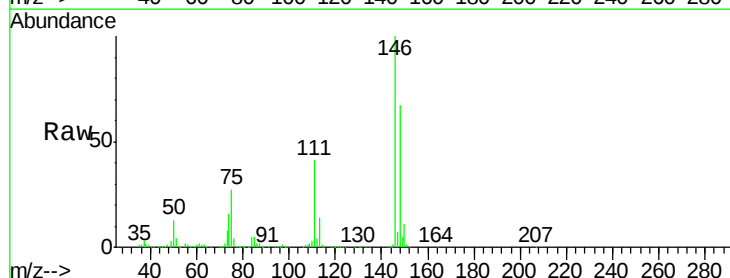
Tgt Ion:146 Resp: 4153559

Ion Ratio Lower Upper

146 100

111 40.4 26.3 78.9

148 66.0 32.0 96.0



Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V

