

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081720\
 Data File : VL035431.D
 Acq On : 18 Aug 2020 00:26
 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 18 06:53:49 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	5.68	49	1095142	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	4775236	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	4757201	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	3456736	10.38	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.80%

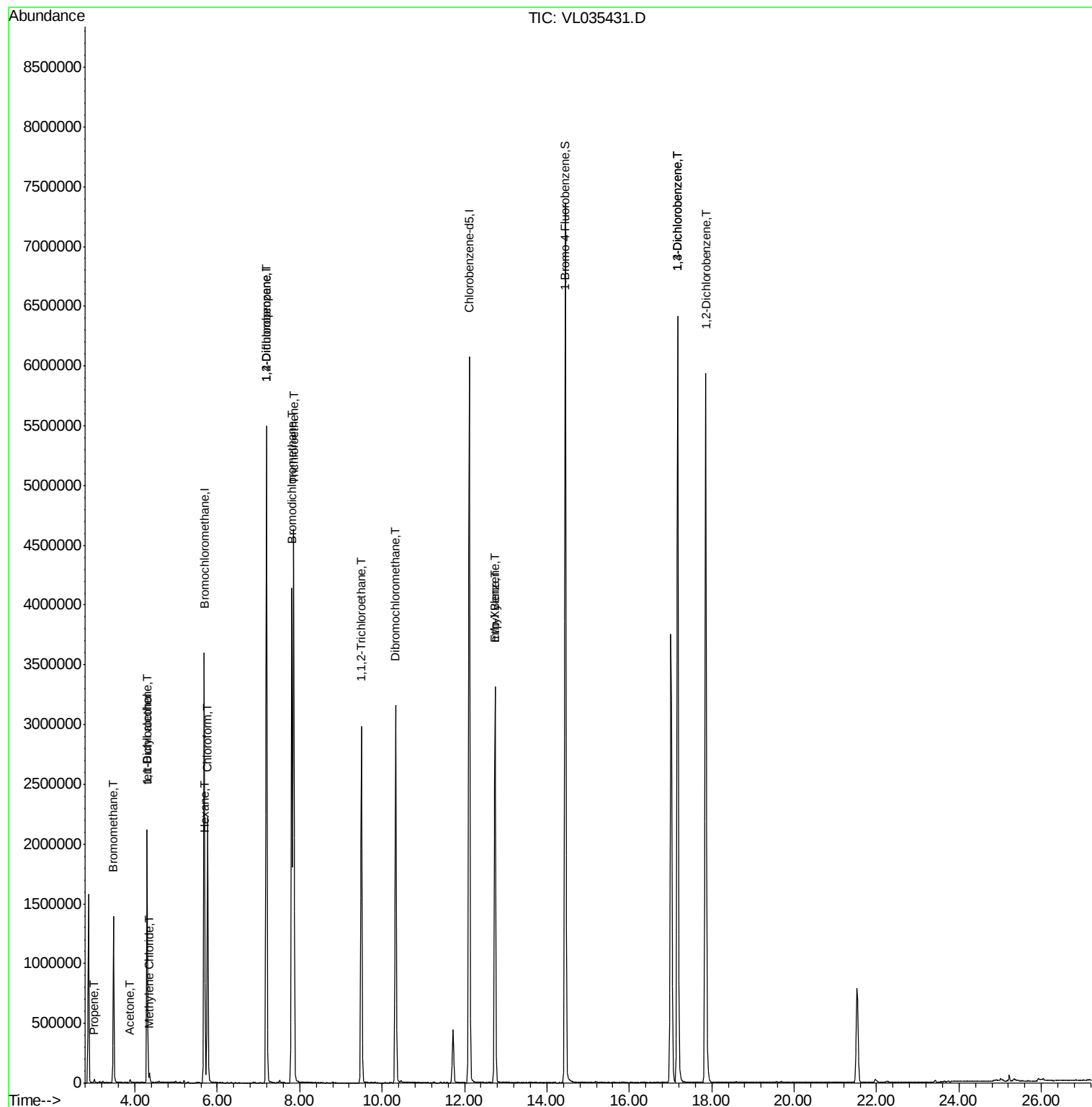
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
6) Bromomethane	3.48	94	725051	9.697	ppbv	99
9) Propene	3.02	41	3766	0.068	ppbv	97
15) Acetone	3.88	43	19272	0.153	ppbv #	45
17) tert-Butyl alcohol	4.30	59	36885	0.226	ppbv #	71
18) 1,1-Dichloroethene	4.30	96	760500	7.257	ppbv #	59
20) Methylene Chloride	4.35	84	30966	0.304	ppbv #	63
26) Hexane	5.70	57	9698	0.070	ppbv #	40
29) Chloroform	5.76	83	1553877	5.587	ppbv	100
38) Trichloroethene	7.85	130	1747174	8.962	ppbv #	83
39) 1,2-Dichloropropane	7.19	63	840070	7.273	ppbv #	23
42) Bromodichloromethane	7.81	83	2820736	10.524	ppbv #	98
47) 1,1,2-Trichloroethane	9.49	97	1174649	6.808	ppbv	94
48) Dibromochloromethane	10.33	129	2134133	7.374	ppbv	99
58) Ethyl Benzene	12.74	91	3198945	5.570	ppbv	91
59) m/p-Xylene	12.74	91	3198945	6.590	ppbv	88
75) 1,3-Dichlorobenzene	17.18	146	4231892	8.753	ppbv	90
76) 1,4-Dichlorobenzene	17.18	146	4231892	8.882	ppbv	91
77) 1,2-Dichlorobenzene	17.85	146	4040321	8.532	ppbv	91

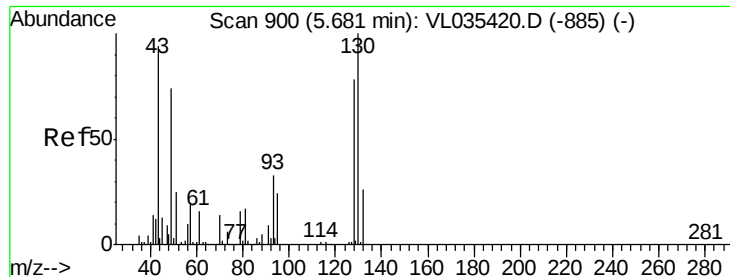
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 5.68 min Scan# 900

Delta R.T. 0.01 min

Lab File: VL035431.D

Acq: 18 Aug 2020 00:26

Instrument :

MSVOA_L

ClientSampleId :

E053-1100DL

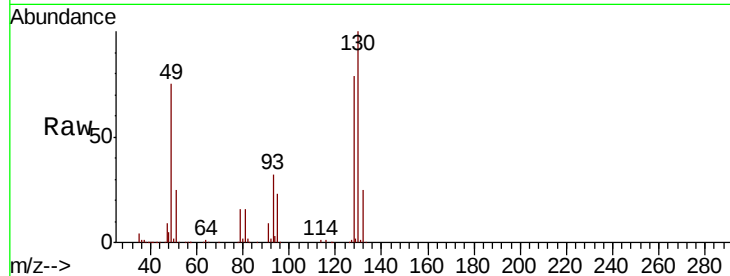
Tot Ion: 49 Resp: 1095142

Ion Ratio Lower Upper

49 100

128 102.3 20.9 62.7#

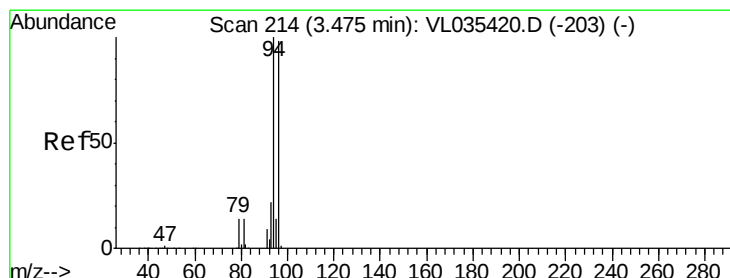
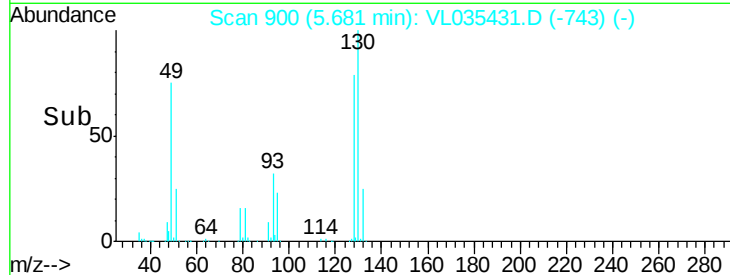
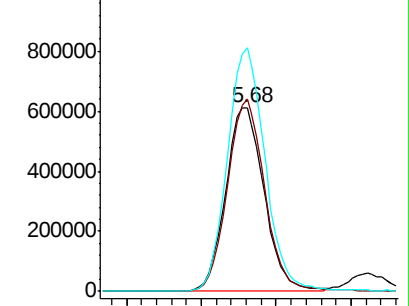
130 131.1 26.7 80.1#



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



#6

Bromomethane

Concen: 9.697 ppbv

RT: 3.48 min Scan# 215

Delta R.T. 0.01 min

Lab File: VL035431.D

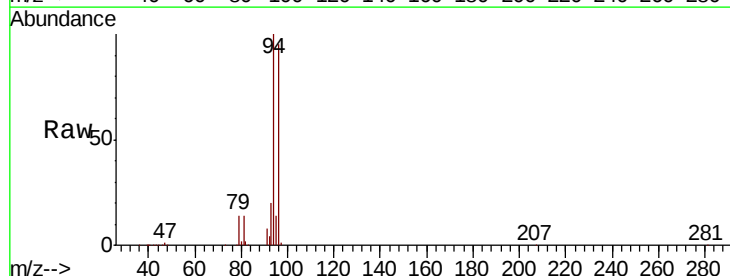
Acq: 18 Aug 2020 00:26

Tgt Ion: 94 Resp: 725051

Ion Ratio Lower Upper

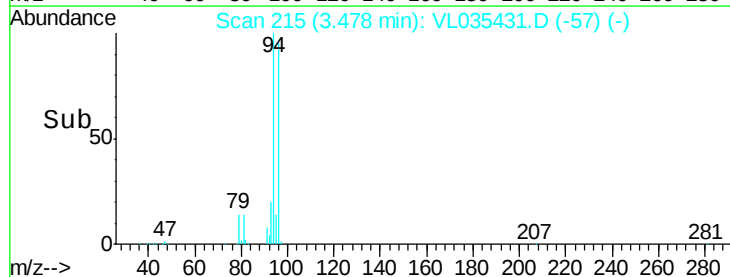
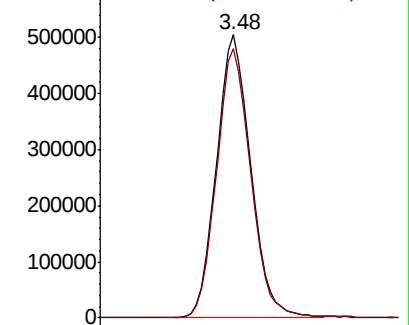
94 100

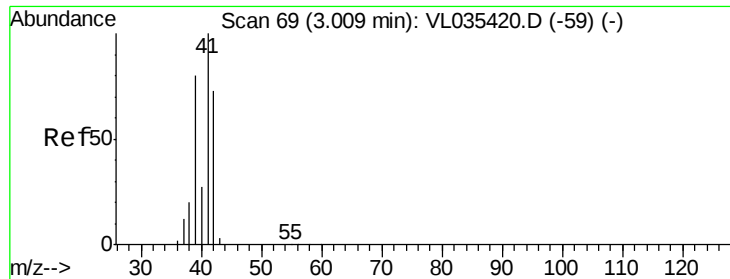
96 94.9 75.0 112.6



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#9

Propene

Concen: 0.068 ppbv

RT: 3.02 min Scan# 72

Delta R.T. 0.01 min

Lab File: VL035431.D

Acq: 18 Aug 2020 00:26

Instrument :

MSVOA_L

ClientSampleId :

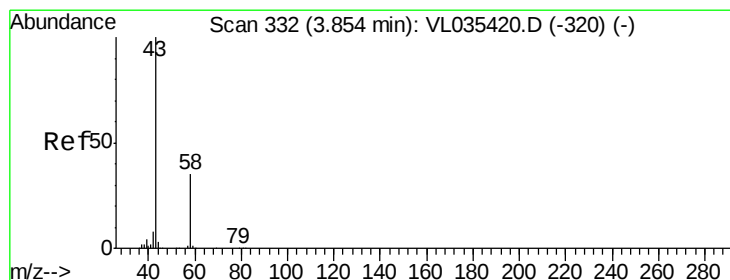
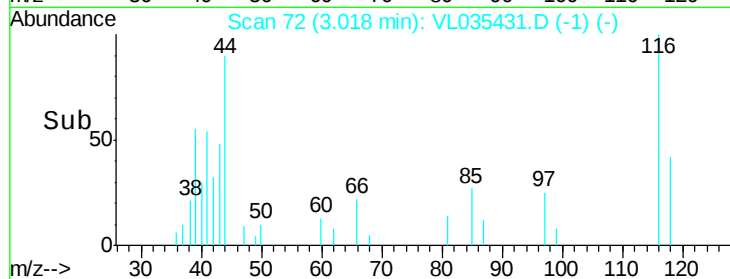
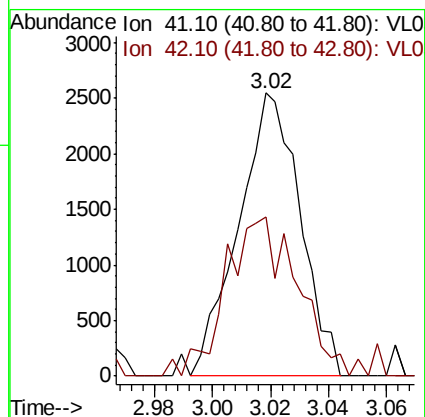
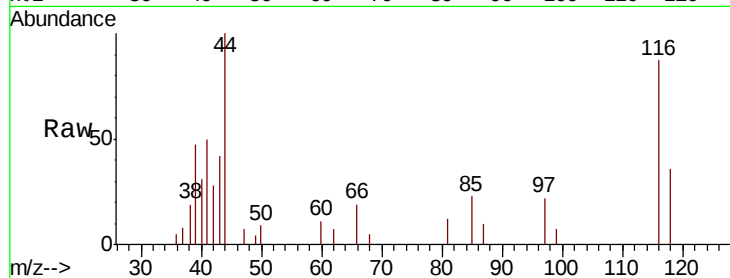
E053-1100DL

Tot Ion: 41 Resp: 3766

Ion Ratio Lower Upper

41 100

42 67.2 55.5 83.3



#15

Acetone

Concen: 0.153 ppbv

RT: 3.88 min Scan# 340

Delta R.T. 0.03 min

Lab File: VL035431.D

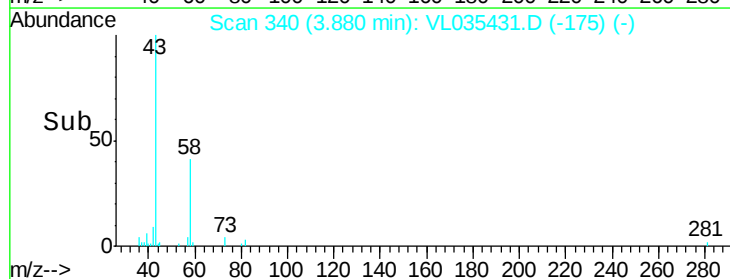
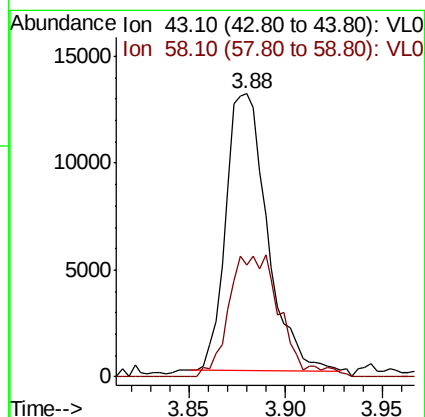
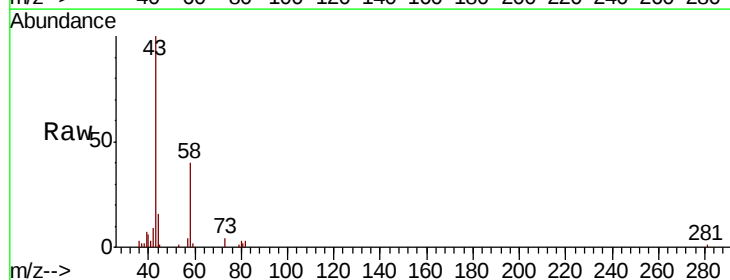
Acq: 18 Aug 2020 00:26

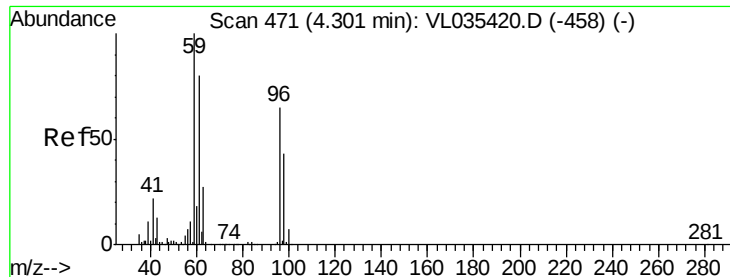
Tgt Ion: 43 Resp: 19272

Ion Ratio Lower Upper

43 100

58 54.4 21.0 31.6#





#17

tert-Butyl alcohol

Concen: 0.226 ppbv

RT: 4.30 min Scan# 470

Delta R.T. 0.00 min

Lab File: VL035431.D

Acq: 18 Aug 2020 00:26

Instrument :

MSVOA_L

ClientSampleID :

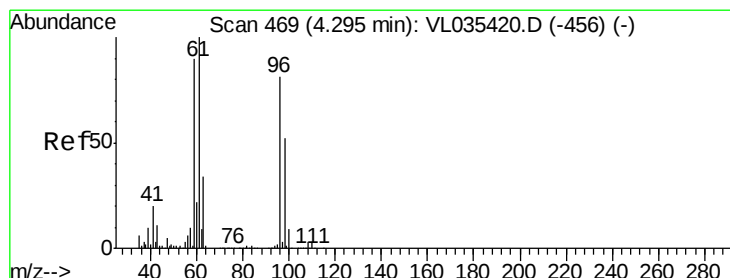
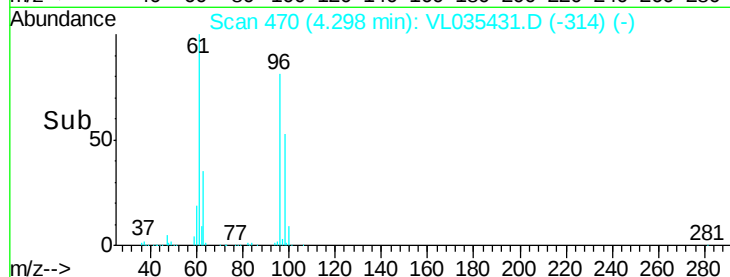
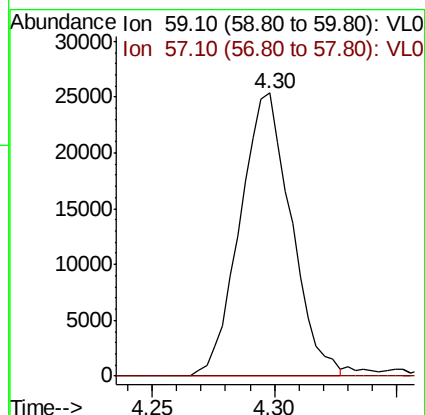
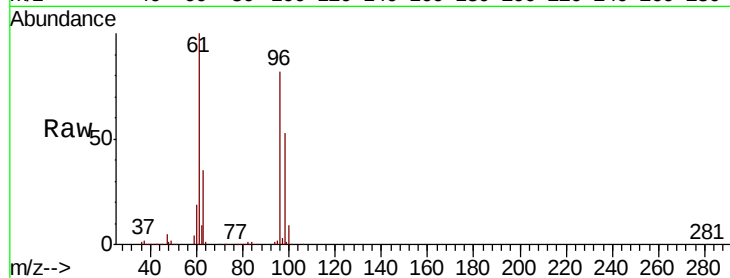
E053-1100DL

Tot Ion: 59 Resp: 36885

Ion Ratio Lower Upper

59 100

57 0.0 8.9 13.3#



#18

1,1-Dichloroethene

Concen: 7.257 ppbv

RT: 4.30 min Scan# 470

Delta R.T. 0.01 min

Lab File: VL035431.D

Acq: 18 Aug 2020 00:26

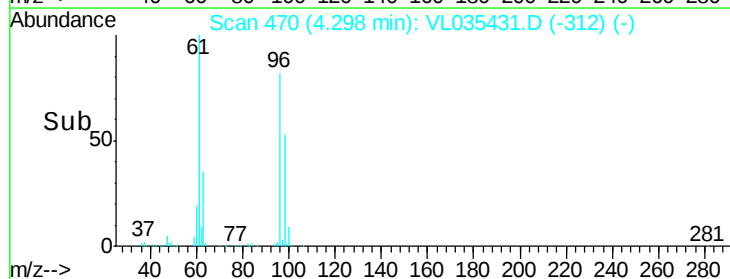
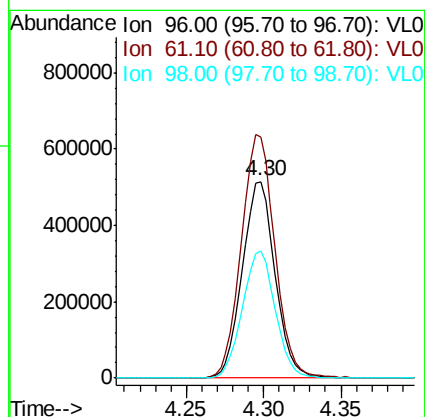
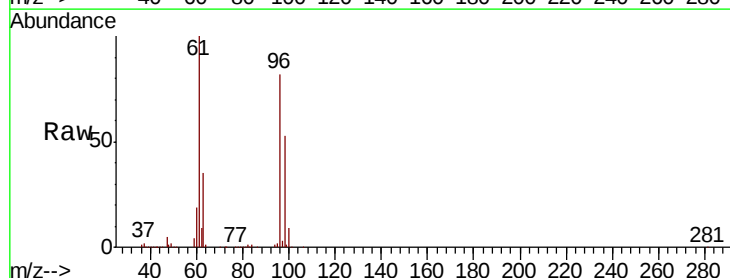
Tgt Ion: 96 Resp: 760500

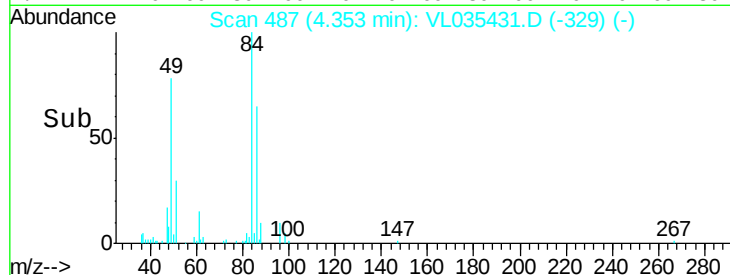
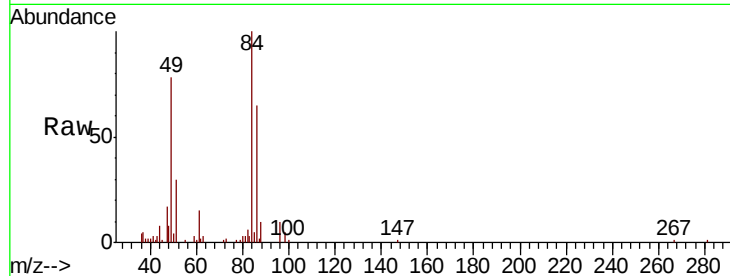
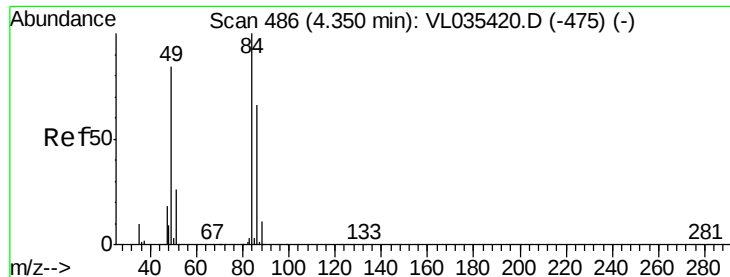
Ion Ratio Lower Upper

96 100

61 122.7 161.8 242.6#

98 64.6 49.3 73.9

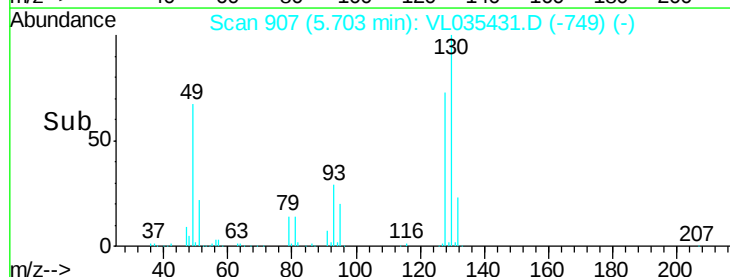
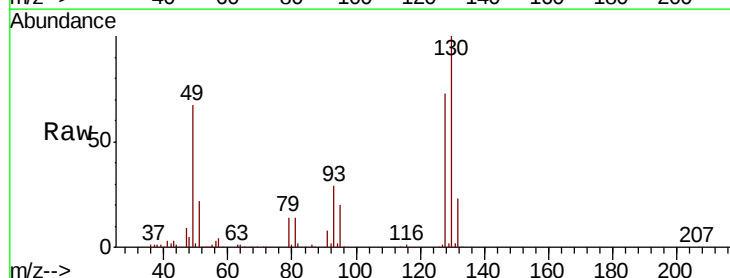
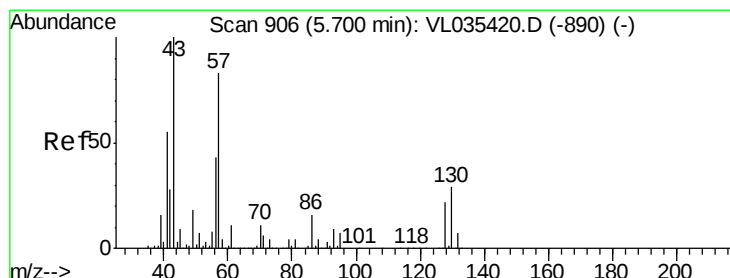
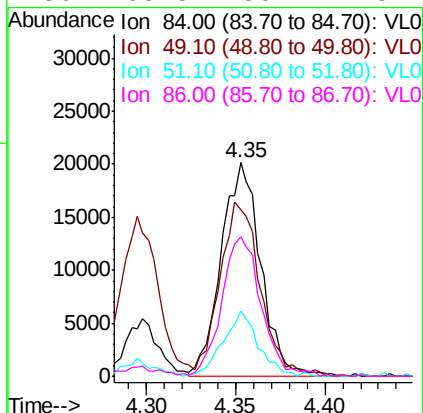




#20
Methvlene Chloride
Concen: 0.304 ppbv
RT: 4.35 min Scan# 487
Delta R.T. 0.01 min
Lab File: VL035431.D
Acq: 18 Aug 2020 00:26

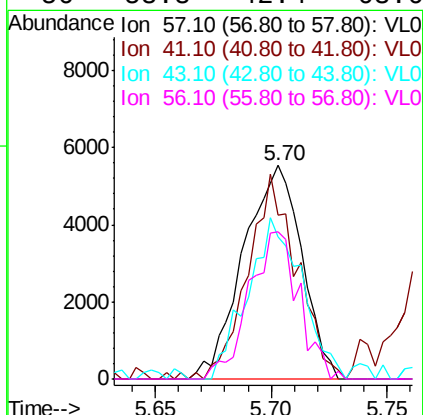
Instrument :
MSVOA_L
ClientSampleId :
E053-1100DL

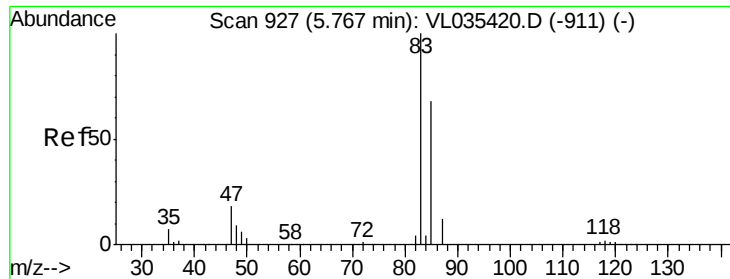
Tot Ion:	84	Resp:	30966
Ion	Ratio	Lower	Upper
84	100		
49	77.3	118.6	177.8#
51	30.3	36.4	54.6#
86	65.5	50.2	75.4



#26
Hexane
Concen: 0.070 ppbv
RT: 5.70 min Scan# 907
Delta R.T. 0.01 min
Lab File: VL035431.D
Acq: 18 Aug 2020 00:26

Tgt Ion:	57	Resp:	9698
Ion	Ratio	Lower	Upper
57	100		
41	81.2	75.5	113.3
43	77.5	181.7	272.5#
56	58.8	42.4	63.6

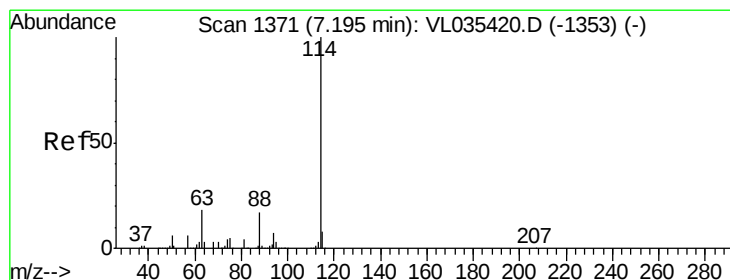
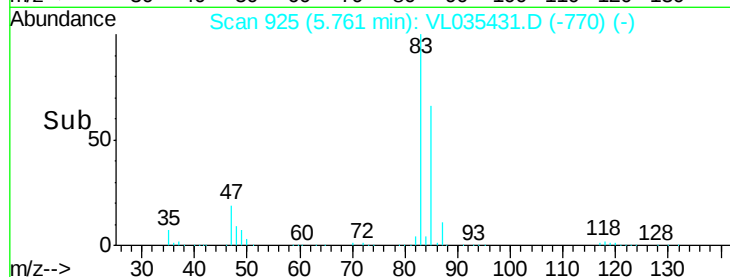
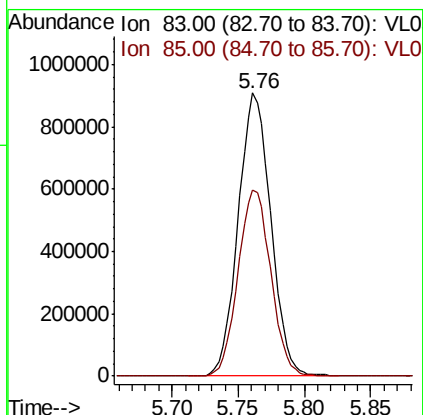
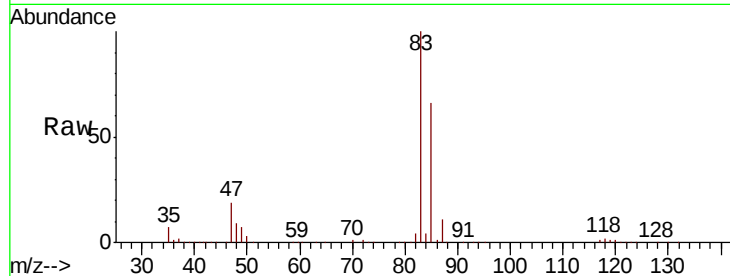




#29
Chloroform
Concen: 5.587 ppbv
RT: 5.76 min Scan# 925
Delta R.T. -0.00 min
Lab File: VL035431.D
Acq: 18 Aug 2020 00:26

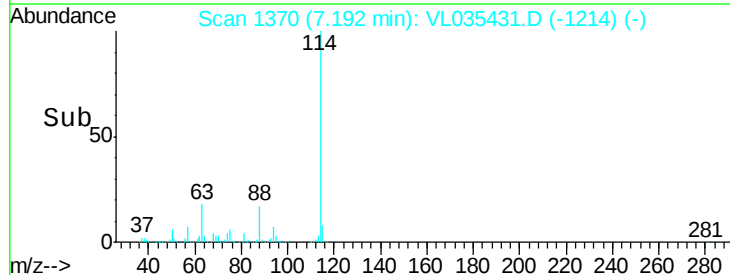
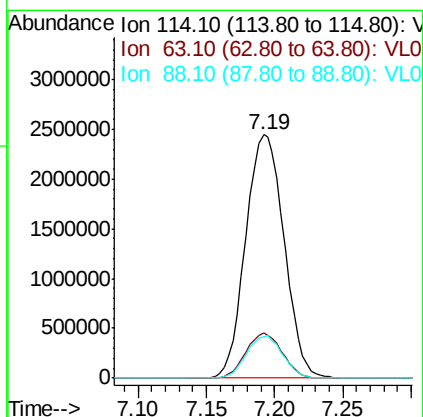
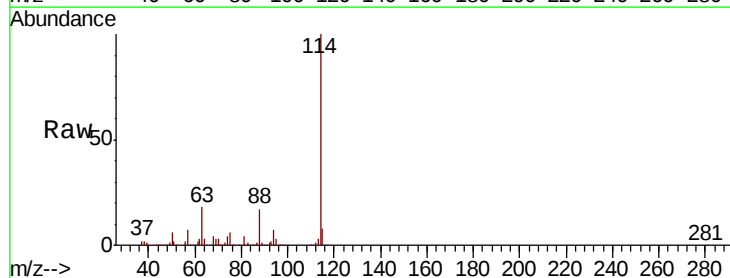
Instrument :
MSVOA_L
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E053-1100DL

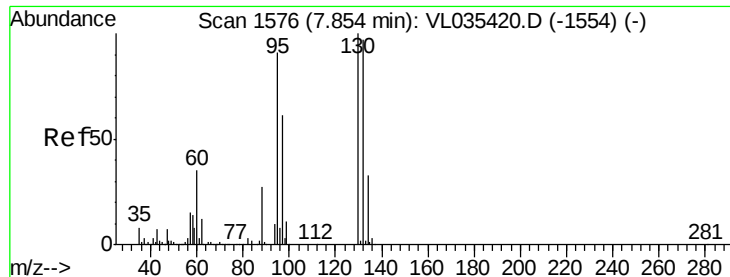
Tot Ion: 83 Resp: 1553877
Ion Ratio Lower Upper
83 100
85 65.8 52.7 79.1



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1370
Delta R.T. 0.00 min
Lab File: VL035431.D
Acq: 18 Aug 2020 00:26

Tgt Ion: 114 Resp: 4775236
Ion Ratio Lower Upper
114 100
63 17.7 23.1 34.7#
88 16.5 15.9 23.9





#38

Trichloroethene

Concen: 8.962 ppbv

RT: 7.85 min Scan# 1576

Delta R.T. 0.00 min

Lab File: VL035431.D

Acq: 18 Aug 2020 00:26

Instrument :

MSVOA_L

ClientSampleId :

E053-1100DL

Tot Ion:130 Resp: 1747174

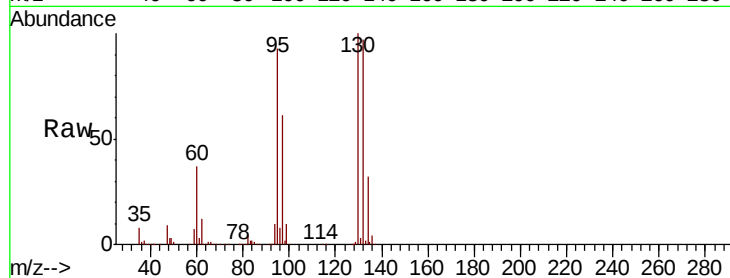
Ion Ratio Lower Upper

130 100

95 92.6 95.8 143.8#

132 97.1 74.3 111.5

97 60.8 62.6 94.0#

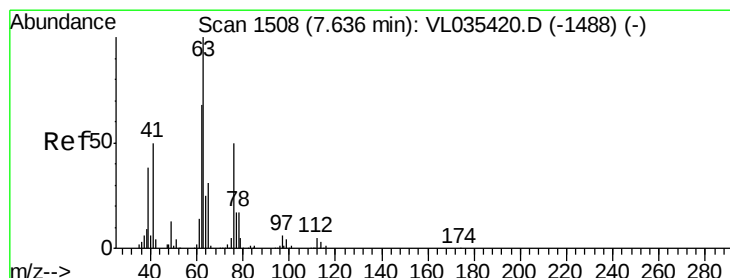
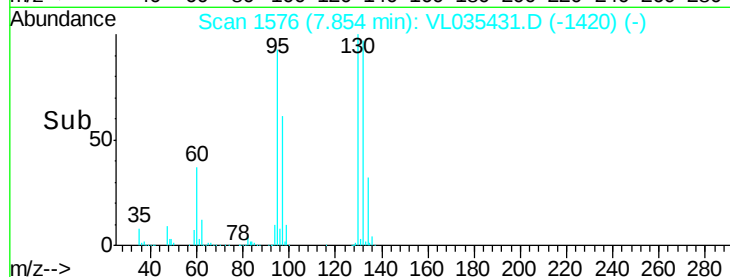
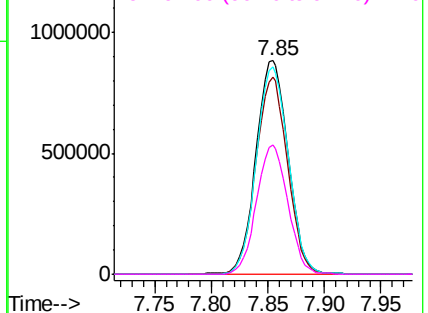


Abundance Ion 130.00 (129.70 to 130.70): V

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



#39

1,2-Dichloropropane

Concen: 7.273 ppbv

RT: 7.19 min Scan# 1370

Delta R.T. -0.43 min

Lab File: VL035431.D

Acq: 18 Aug 2020 00:26

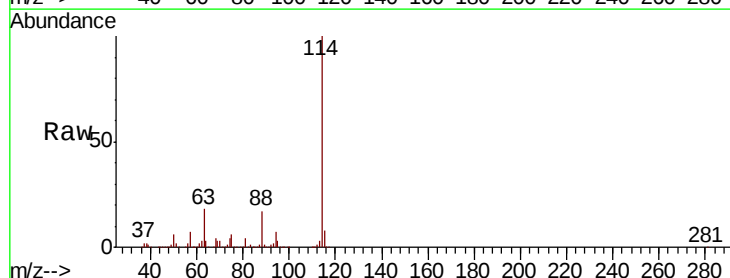
Tgt Ion: 63 Resp: 840070

Ion Ratio Lower Upper

63 100

41 0.0 61.1 91.7#

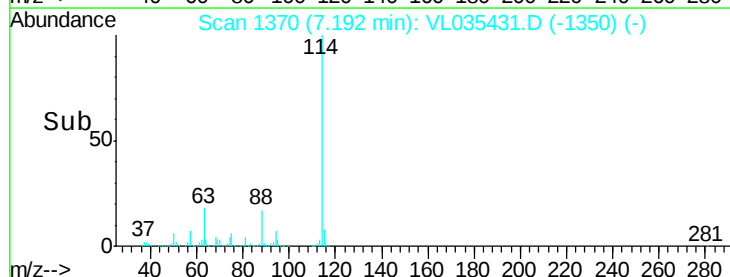
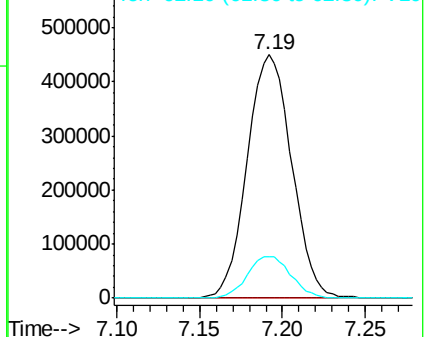
62 16.8 55.3 82.9#

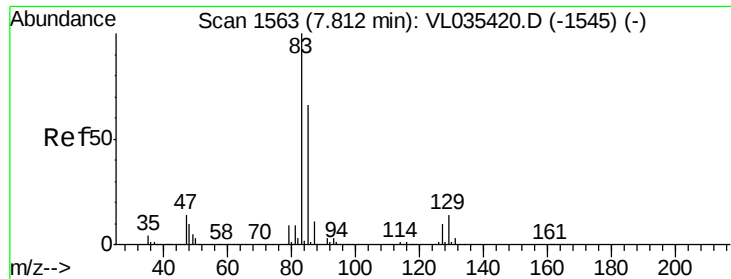


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#42

Bromodichloromethane

Concen: 10.524 ppbv

RT: 7.81 min Scan# 1562

Delta R.T. 0.00 min

Lab File: VL035431.D

Acq: 18 Aug 2020 00:26

Instrument :

MSVOA_L

ClientSampleId :

E053-1100DL

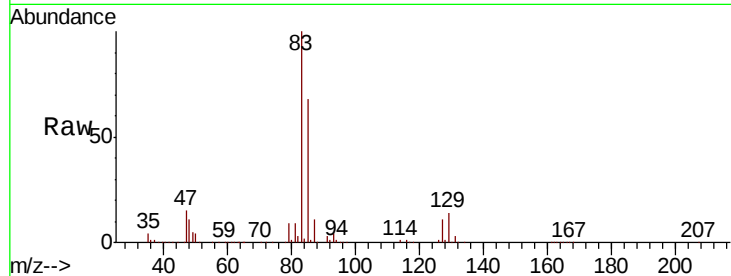
Tot Ion: 83 Resp: 2820736

Ion Ratio Lower Upper

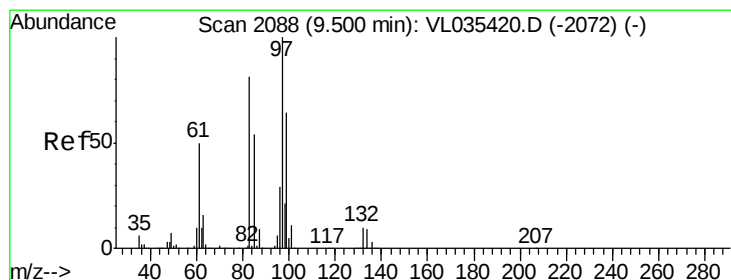
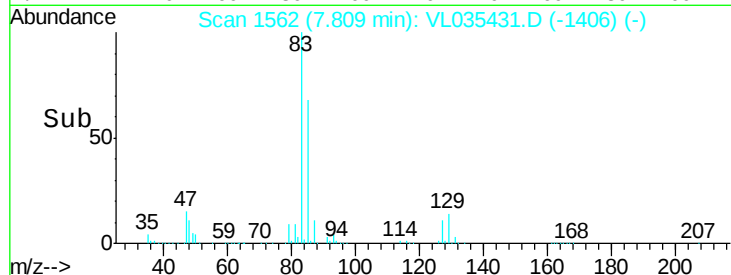
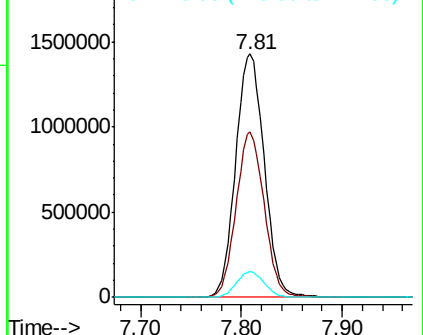
83 100

85 67.9 54.8 82.2

127 10.9 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: 6.808 ppbv

RT: 9.49 min Scan# 2086

Delta R.T. -0.00 min

Lab File: VL035431.D

Acq: 18 Aug 2020 00:26

Tgt Ion: 97 Resp: 1174649

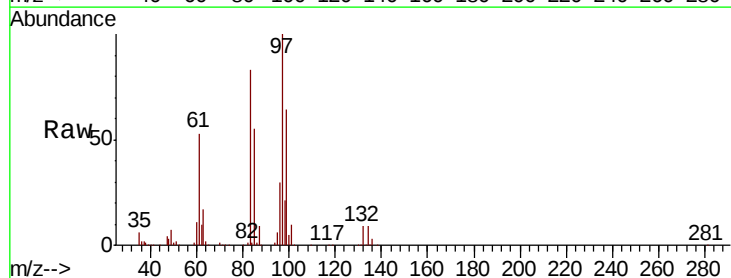
Ion Ratio Lower Upper

97 100

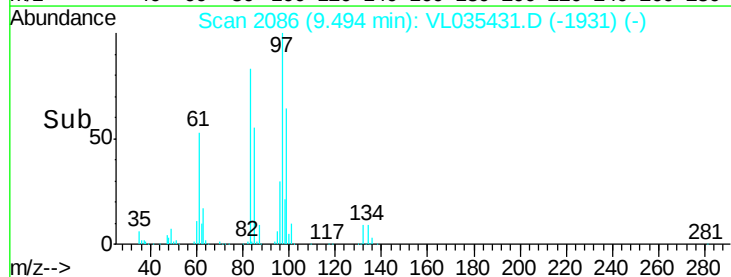
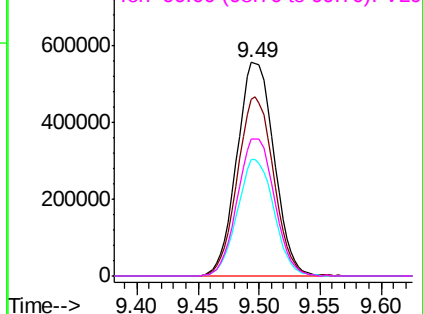
83 82.7 72.1 108.1

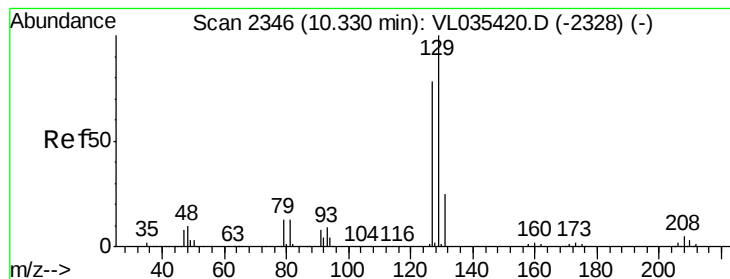
85 54.7 46.8 70.2

99 64.0 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: 7.374 ppbv

RT: 10.33 min Scan# 2345

Delta R.T. 0.01 min

Lab File: VL035431.D

Acq: 18 Aug 2020 00:26

Instrument :

MSVOA_L

ClientSampleId :

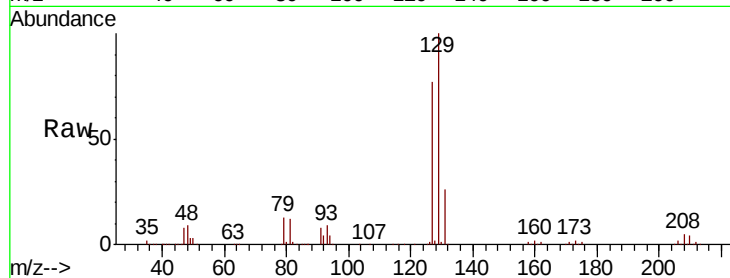
E053-1100DL

Tot Ion:129 Resp: 2134133

Ion Ratio Lower Upper

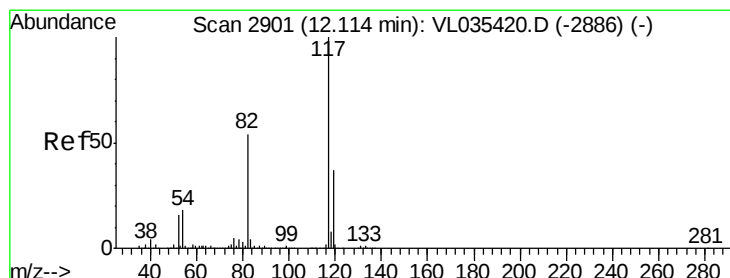
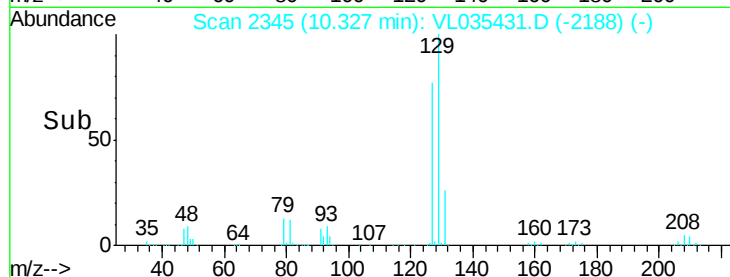
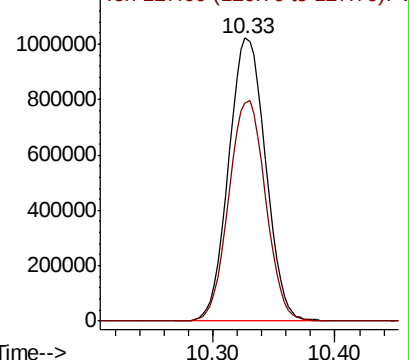
129 100

127 77.9 39.5 118.5



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2901

Delta R.T. 0.01 min

Lab File: VL035431.D

Acq: 18 Aug 2020 00:26

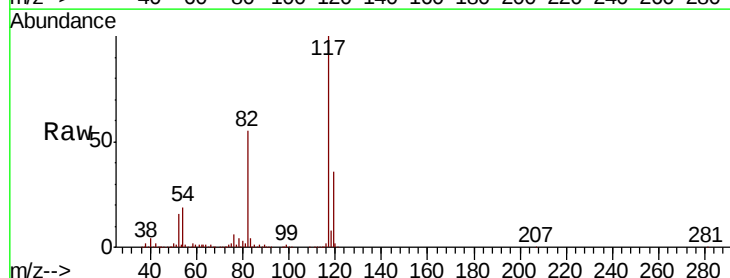
Tgt Ion:117 Resp: 4757201

Ion Ratio Lower Upper

117 100

82 53.3 57.4 86.0#

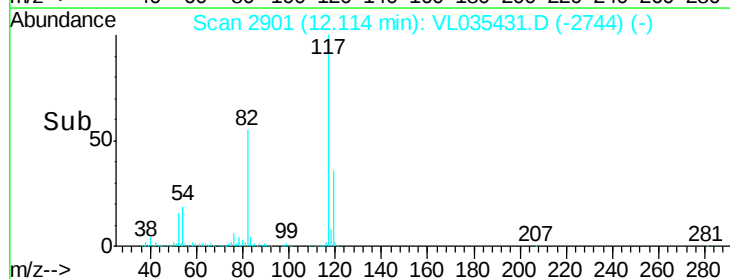
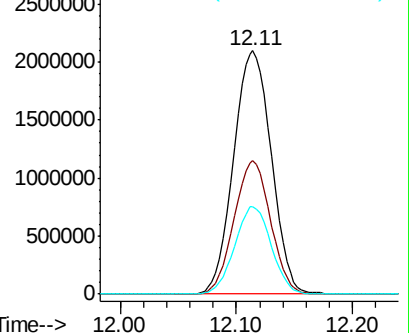
119 35.0 28.4 42.6

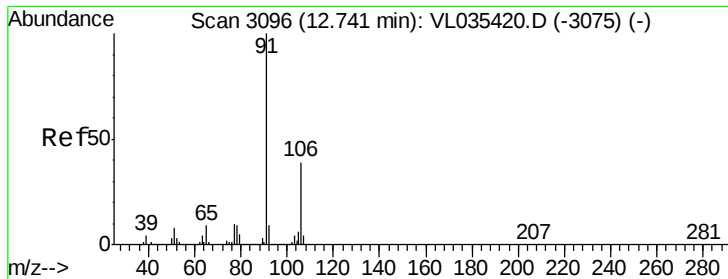


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#58

Ethyl Benzene

Concen: 5.570 ppbv

RT: 12.74 min Scan# 3095

Delta R.T. 0.01 min

Lab File: VL035431.D

Acq: 18 Aug 2020 00:26

Instrument :

MSVOA_L

ClientSampleId :

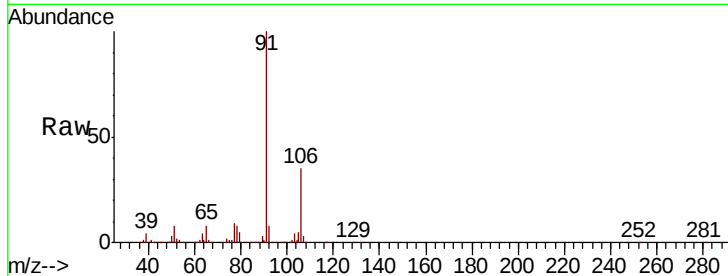
E053-1100DL

Tot Ion: 91 Resp: 3198945

Ion Ratio Lower Upper

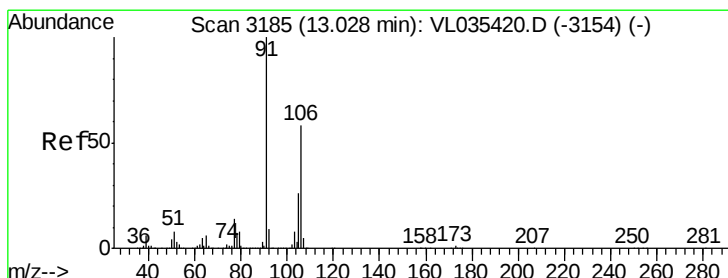
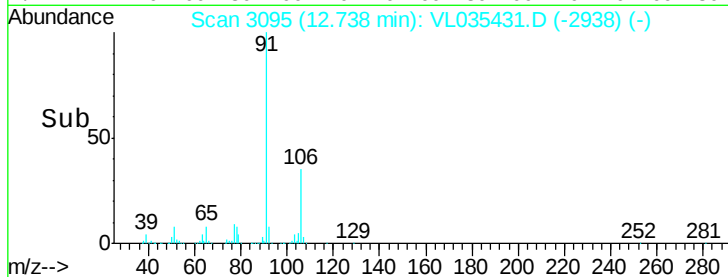
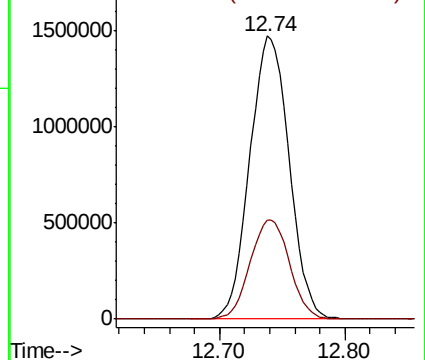
91 100

106 35.1 24.1 36.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 6.590 ppbv

RT: 12.74 min Scan# 3095

Delta R.T. -0.28 min

Lab File: VL035431.D

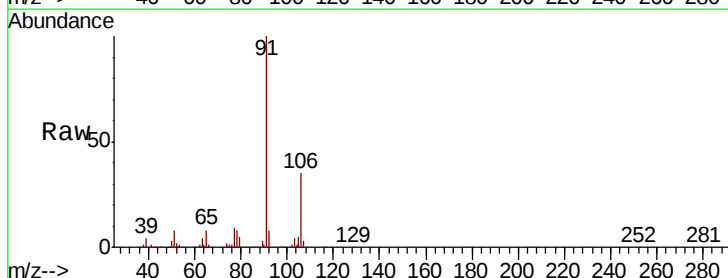
Acq: 18 Aug 2020 00:26

Tgt Ion: 91 Resp: 3198945

Ion Ratio Lower Upper

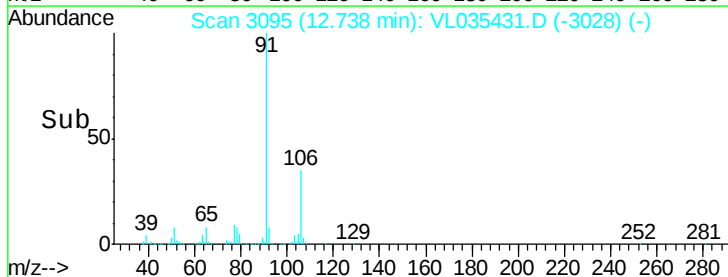
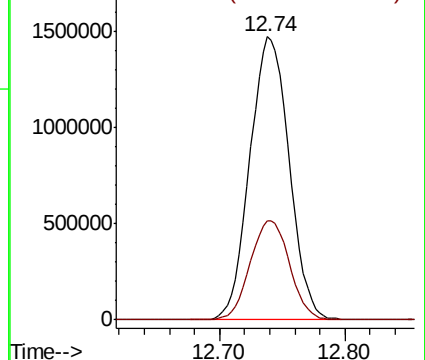
91 100

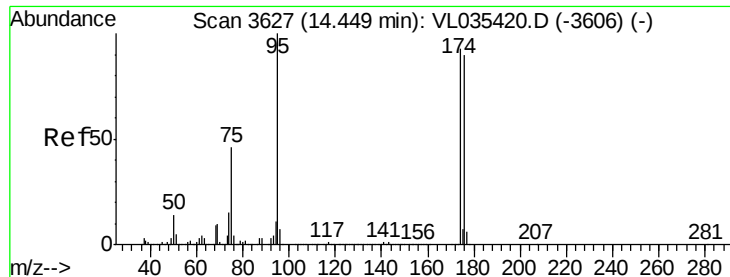
106 35.2 34.0 51.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 10.379 ppbv

RT: 14.45 min Scan# 3627

Delta R.T. 0.01 min

Lab File: VL035431.D

Acq: 18 Aug 2020 00:26

Instrument :

MSVOA_L

ClientSampleId :

E053-1100DL

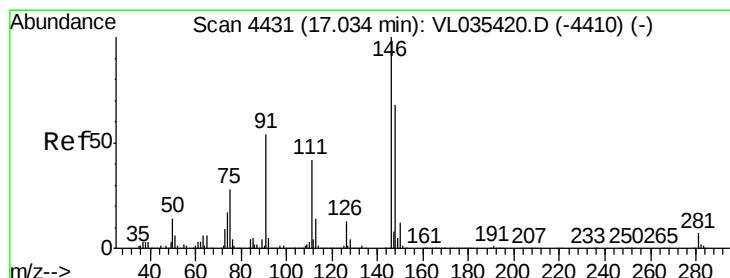
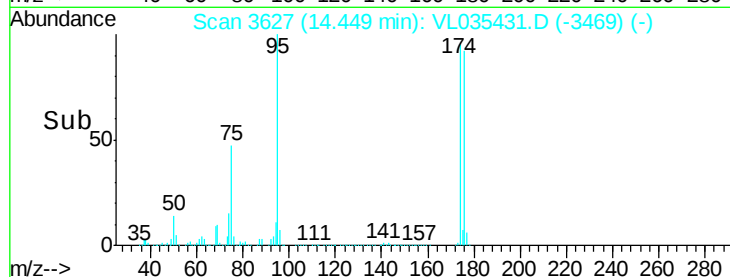
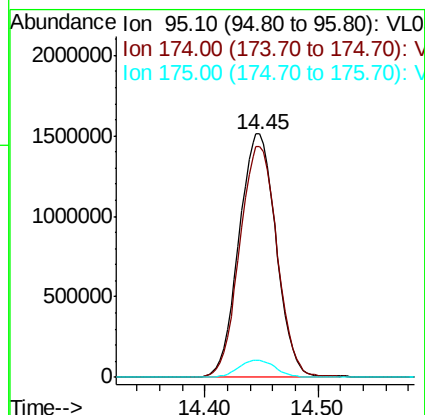
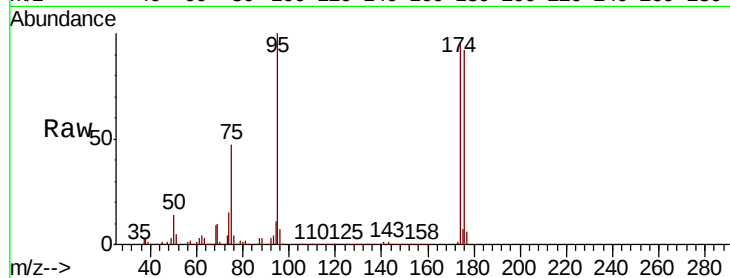
Tot Ion: 95 Resp: 3456736

Ion Ratio Lower Upper

95 100

174 96.2 44.0 66.0#

175 7.0 3.2 4.8#



#75

1,3-Dichlorobenzene

Concen: 8.753 ppbv

RT: 17.18 min Scan# 4475

Delta R.T. 0.15 min

Lab File: VL035431.D

Acq: 18 Aug 2020 00:26

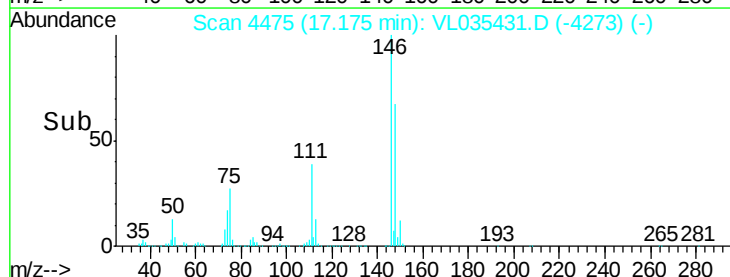
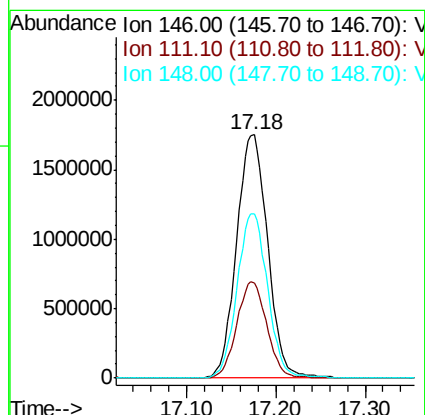
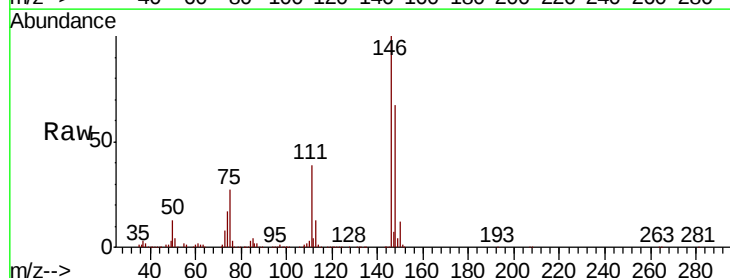
Tgt Ion: 146 Resp: 4231892

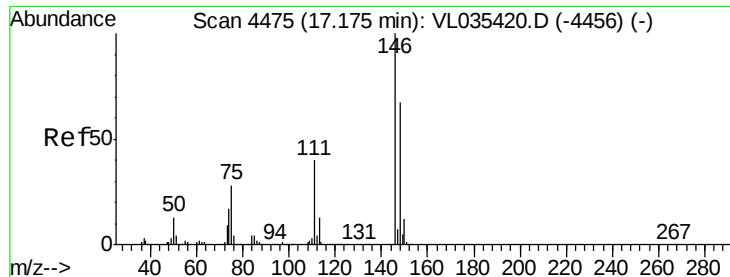
Ion Ratio Lower Upper

146 100

111 38.3 25.6 76.8

148 66.6 32.3 96.9

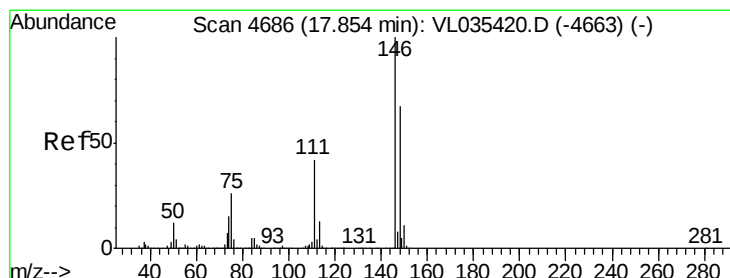
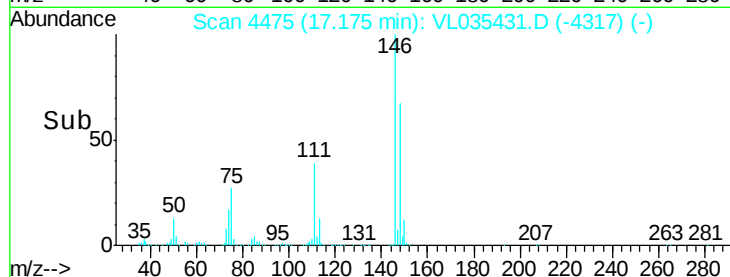
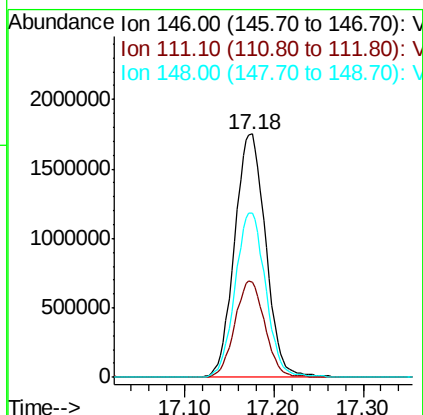
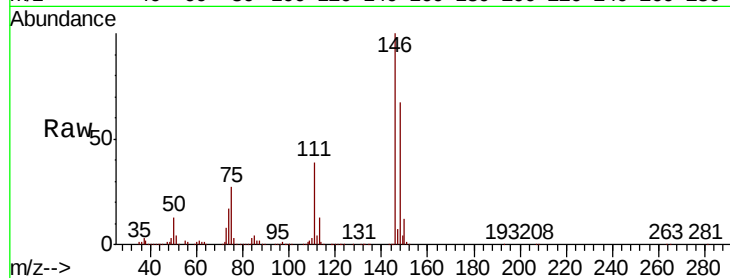




#76
 1,4-Dichlorobenzene
 Concen: 8.882 ppbv
 RT: 17.18 min Scan# 4475
 Delta R.T. 0.01 min
 Lab File: VL035431.D
 Acq: 18 Aug 2020 00:26

Instrument :
 MSVOA_L
 ClientSampleId :
 E053-1100DL

Tot Ion:146 Resp: 4231892
 Ion Ratio Lower Upper
 146 100
 111 38.3 24.8 74.4
 148 66.5 32.1 96.3



#77
 1,2-Dichlorobenzene
 Concen: 8.532 ppbv
 RT: 17.85 min Scan# 4686
 Delta R.T. 0.01 min
 Lab File: VL035431.D
 Acq: 18 Aug 2020 00:26

Tgt Ion:146 Resp: 4040321
 Ion Ratio Lower Upper
 146 100
 111 40.6 26.3 78.9
 148 66.2 32.0 96.0

