

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121118\
 Data File : VL032975.D
 Acq On : 12 Dec 2018 4:25
 Operator : SY/AP
 Sample : J6262-04DL2 800X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Dec 12 06:25:42 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Dec 07 09:35:17 2018
 QLast Update : Fri Dec 07 09:35:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1038424	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2627133	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	2453391	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	1807468	9.97	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.70%

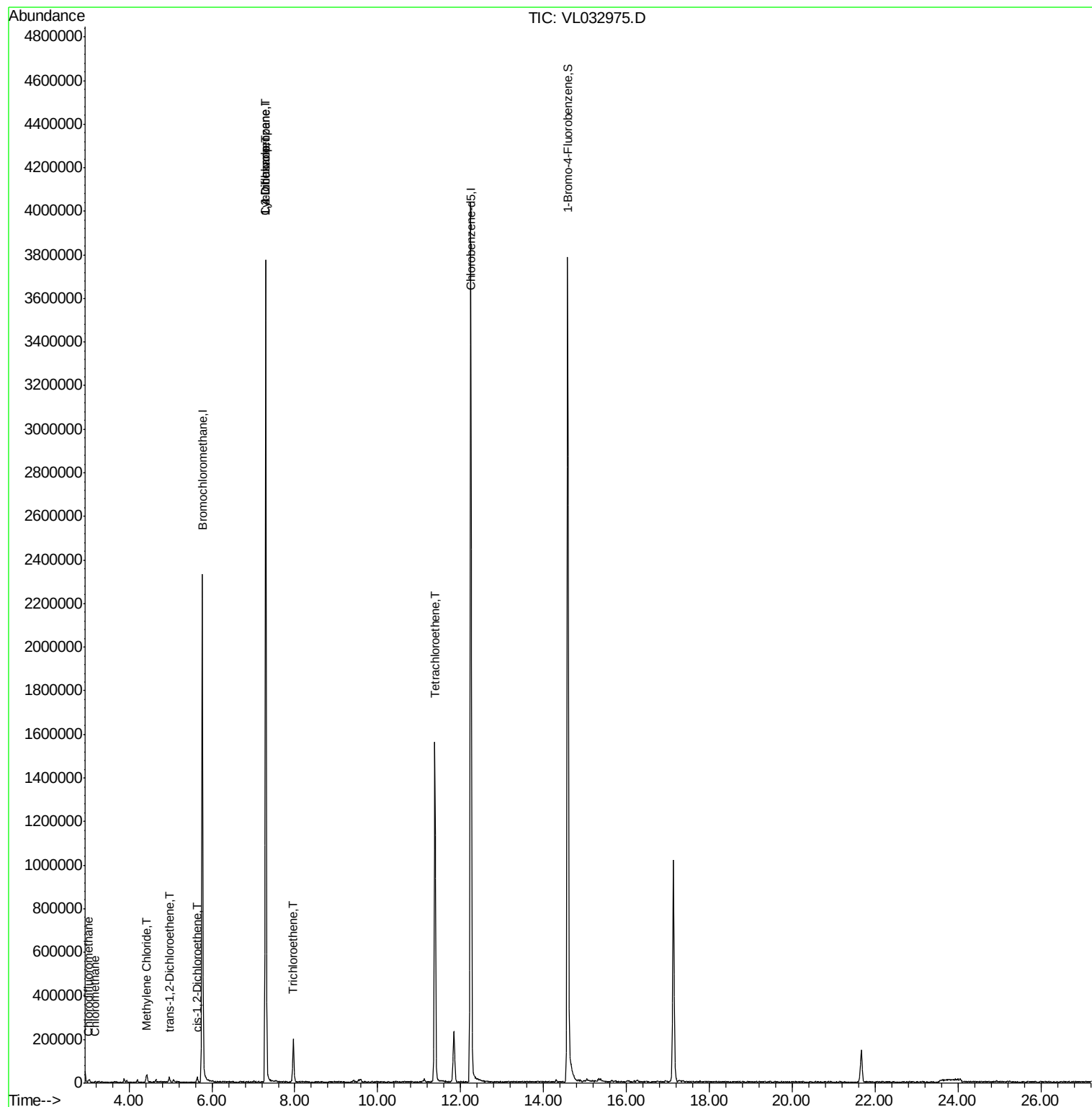
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	3.02	51	8062	0.103	ppbv	93
4) Chloromethane	3.18	50	6151	0.134	ppbv #	84
20) Methylene Chloride	4.41	84	4663	0.107	ppbv	93
22) trans-1,2-Dichloroethene	4.97	96	7055	0.130	ppbv	83
30) Cyclohexane	7.28	84	5804	0.072	ppbv #	1
31) cis-1,2-Dichloroethene	5.65	61	11485	0.129	ppbv #	87
38) Trichloroethene	7.96	130	57460	0.715	ppbv	94
39) 1,2-Dichloropropane	7.30	63	656289	8.956	ppbv #	21
52) Tetrachloroethene	11.38	164	355939	5.064	ppbv	95

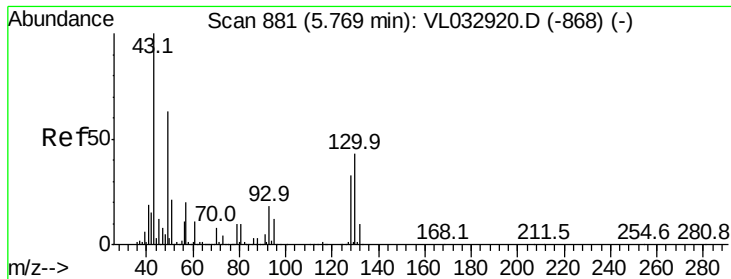
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL120718AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Dec 07 09:35:17 2018
QLast Update : Fri Dec 07 09:35:17 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 880

Delta R.T. -0.00 min

Lab File: VL032975.D

Acq: 12 Dec 2018 4:25

Instrument :
MSVOA_L
ClientSampleId :

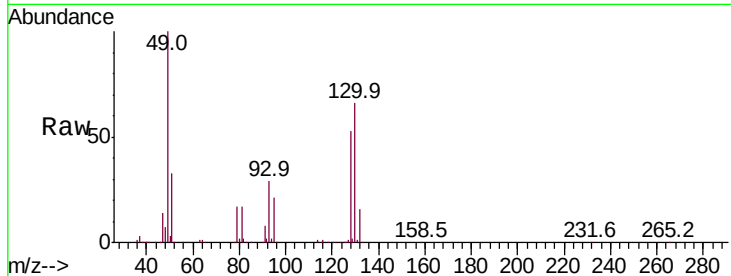
Tot Ion: 49 Resp: 1038424

Ion Ratio Lower Upper

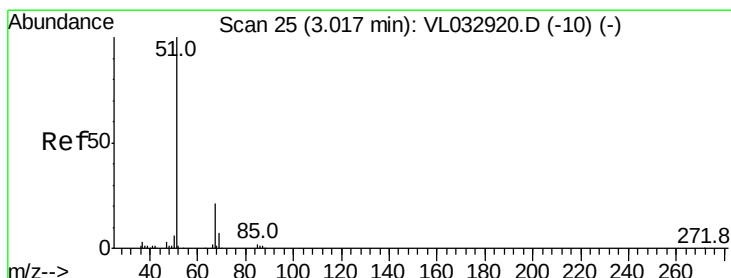
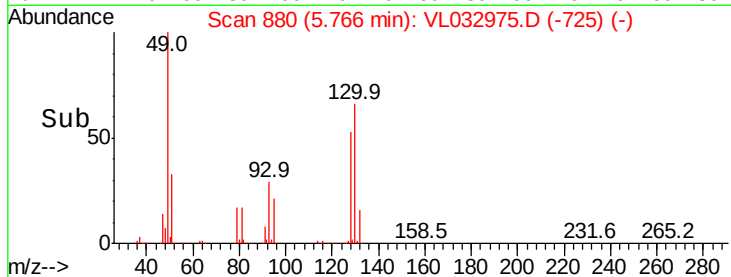
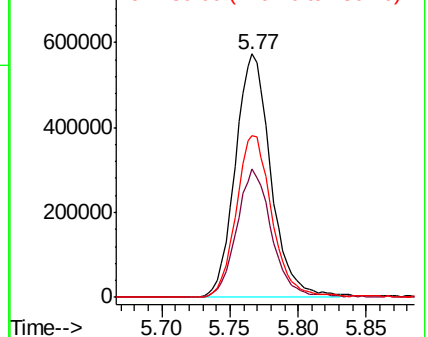
49 100

128 52.5 26.3 78.8

130 67.7 33.9 101.7



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: 0.103 ppbv

RT: 3.02 min Scan# 25

Delta R.T. 0.00 min

Lab File: VL032975.D

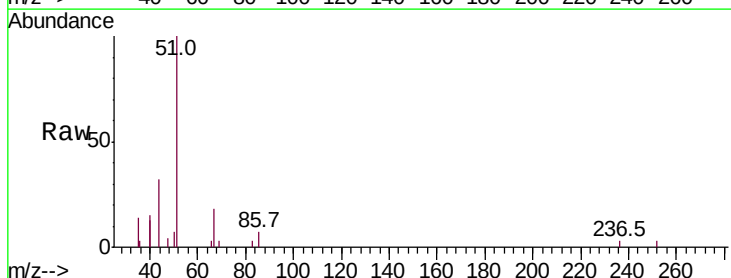
Acq: 12 Dec 2018 4:25

Tgt Ion: 51 Resp: 8062

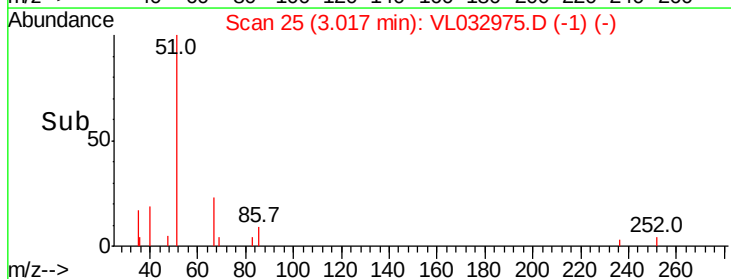
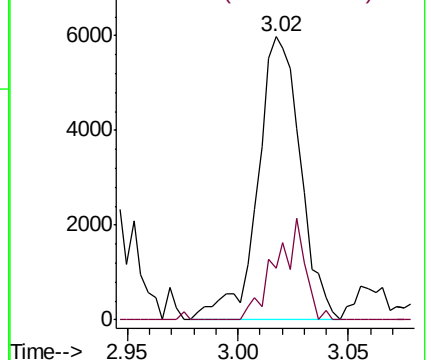
Ion Ratio Lower Upper

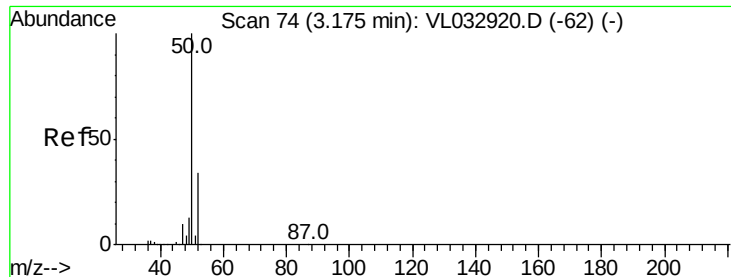
51 100

67 24.4 16.8 25.2



Abundance Ion 51.00 (50.70 to 51.70): VL0
Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.134 ppbv

RT: 3.18 min Scan# 76

Delta R.T. 0.01 min

Lab File: VL032975.D

Acq: 12 Dec 2018 4:25

Instrument :

MSVOA_L

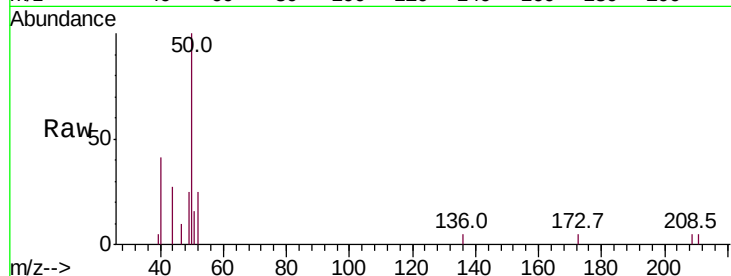
ClientSampleId :

Tot Ion: 50 Resp: 6151

Ion Ratio Lower Upper

50 100

52 25.1 27.3 40.9#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

3.18

4000

3000

2000

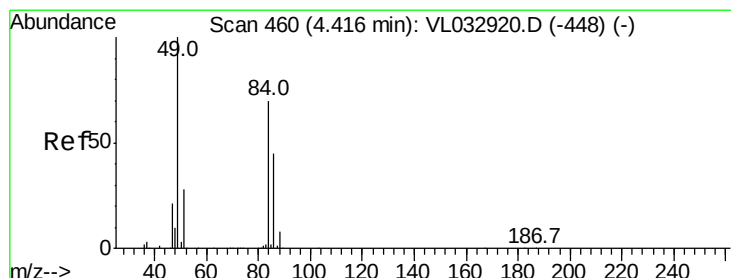
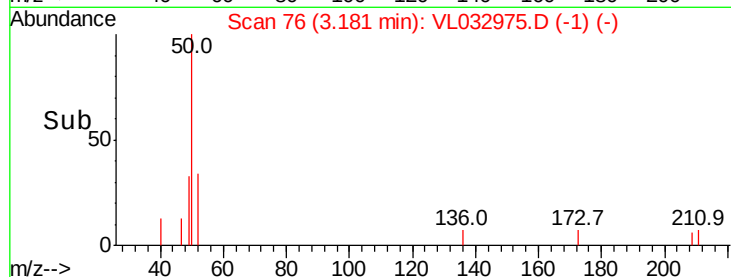
1000

0

Time-->

3.15

3.20



#20

Methylene Chloride

Concen: 0.107 ppbv

RT: 4.41 min Scan# 459

Delta R.T. -0.00 min

Lab File: VL032975.D

Acq: 12 Dec 2018 4:25

Tgt Ion: 84 Resp: 4663

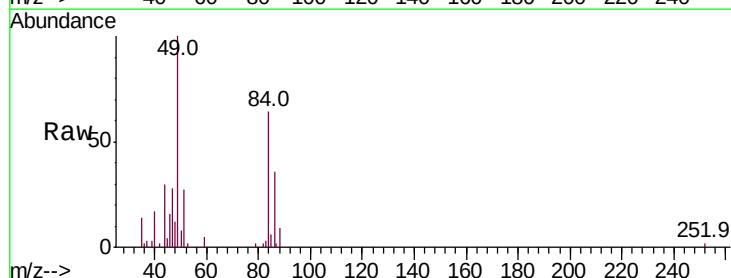
Ion Ratio Lower Upper

84 100

49 145.7 113.8 170.8

51 43.0 31.8 47.8

86 50.9 50.8 76.2



Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

12000

10000

8000

6000

4000

2000

0

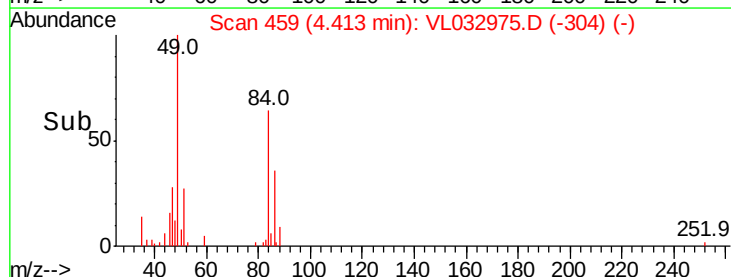
Time-->

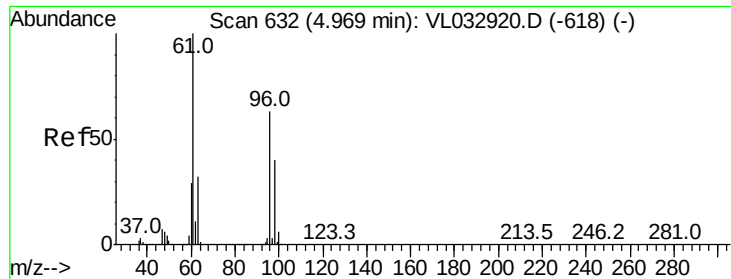
4.39

4.40

4.41

4.42





#22

trans-1,2-Dichloroethene

Concen: 0.130 ppbv

RT: 4.97 min Scan# 631

Delta R.T. -0.00 min

Lab File: VL032975.D

Acq: 12 Dec 2018 4:25

Instrument :

MSVOA_L

ClientSampleId :

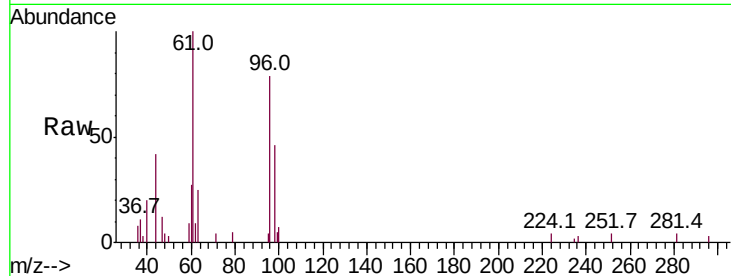
Tot Ion: 96 Resp: 7055

Ion Ratio Lower Upper

96 100

61 133.2 127.1 190.7

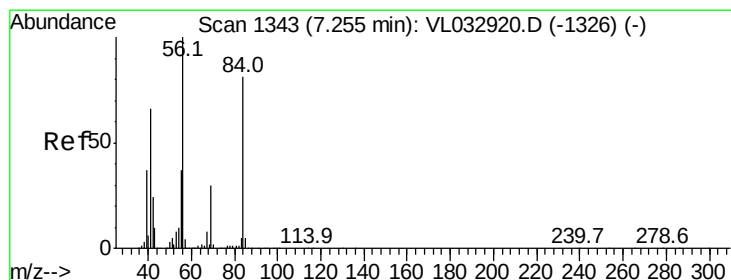
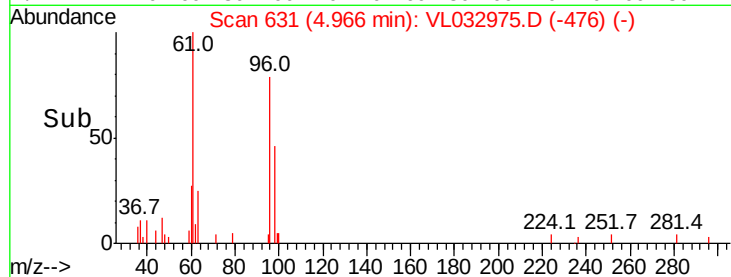
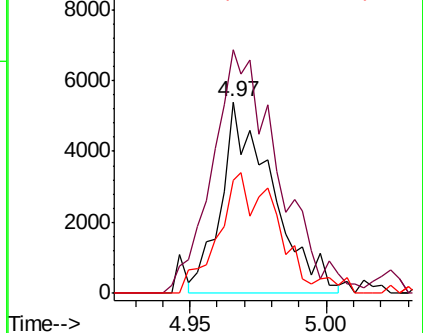
98 56.8 51.3 76.9



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



#30

Cyclohexane

Concen: 0.072 ppbv

RT: 7.28 min Scan# 1352

Delta R.T. 0.03 min

Lab File: VL032975.D

Acq: 12 Dec 2018 4:25

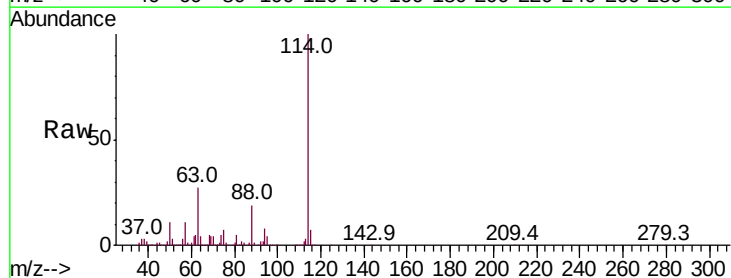
Tgt Ion: 84 Resp: 5804

Ion Ratio Lower Upper

84 100

56 0.0 102.5 153.7#

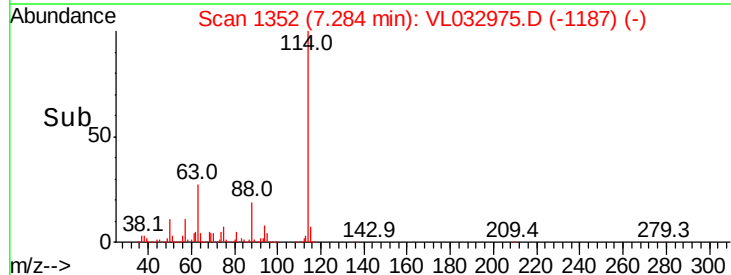
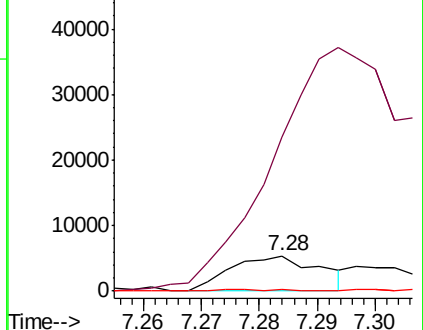
41 0.0 64.1 96.1#

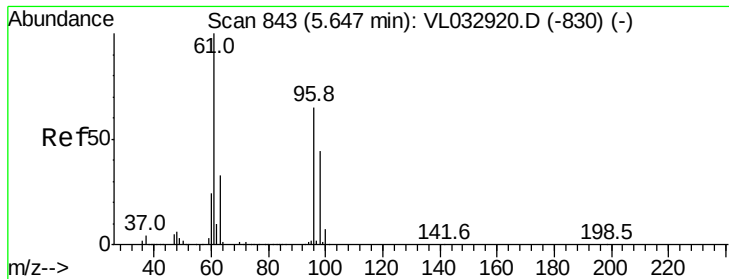


Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0





#31

cis-1,2-Dichloroethene

Concen: 0.129 ppbv

RT: 5.65 min Scan# 843

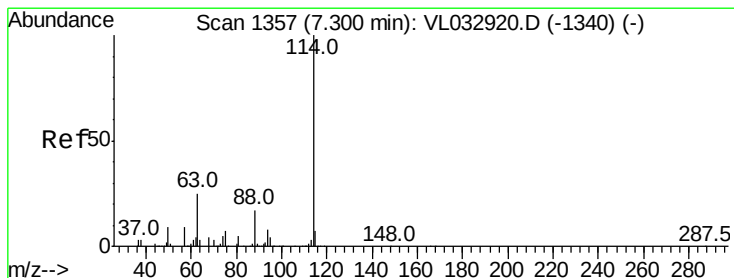
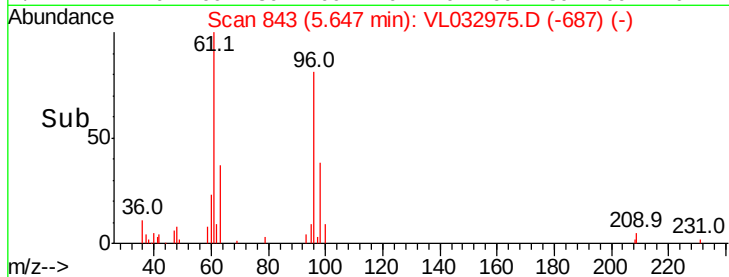
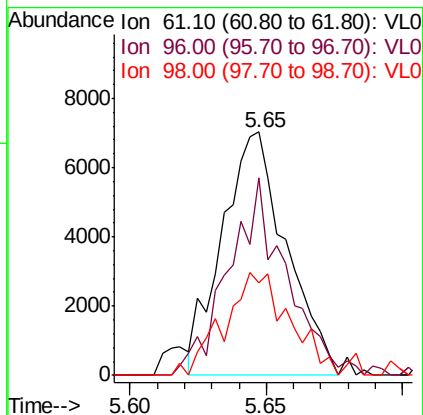
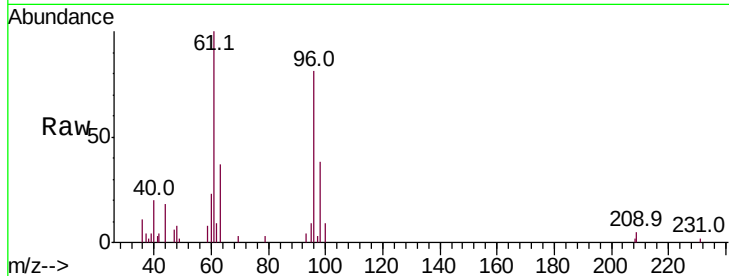
Delta R.T. 0.00 min

Lab File: VL032975.D

Acq: 12 Dec 2018 4:25

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:	61	Resp:	11485
Ion	Ratio	Lower	Upper
61	100		
96	78.0	51.9	77.9#
98	38.3	35.0	52.4



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

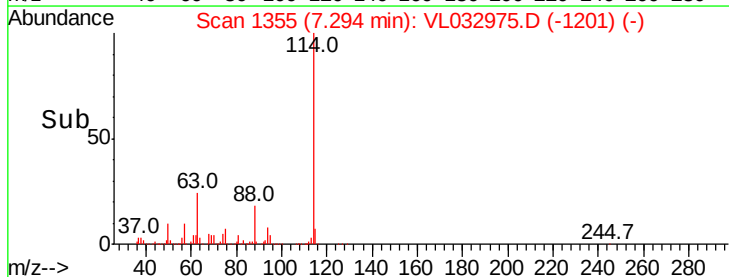
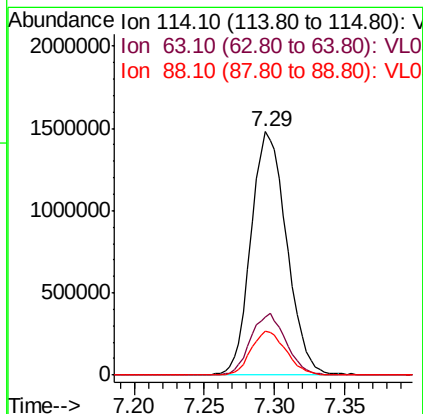
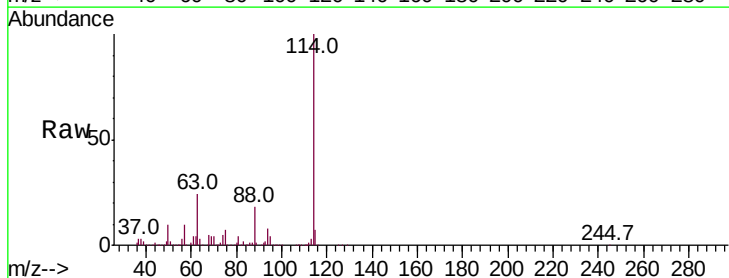
RT: 7.29 min Scan# 1355

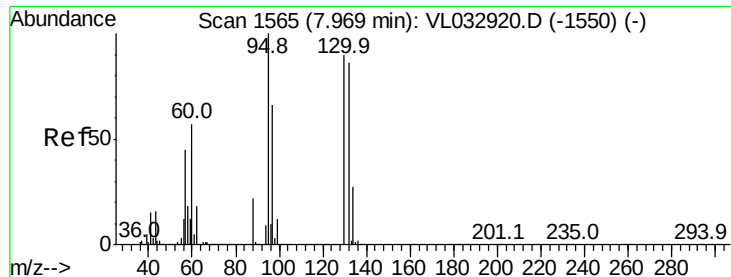
Delta R.T. -0.01 min

Lab File: VL032975.D

Acq: 12 Dec 2018 4:25

Tgt Ion:	114	Resp:	2627133
Ion	Ratio	Lower	Upper
114	100		
63	25.0	20.1	30.1
88	17.8	14.2	21.4





#38

Trichloroethene

Concen: 0.715 ppbv

RT: 7.96 min Scan# 1563

Delta R.T. -0.01 min

Lab File: VL032975.D

Acq: 12 Dec 2018 4:25

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:130 Resp: 57460

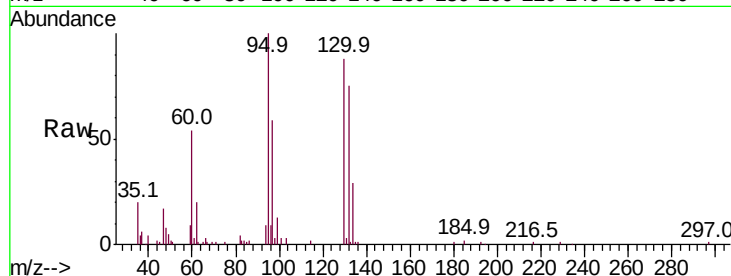
Ion Ratio Lower Upper

130 100

95 112.0 88.6 132.8

132 84.9 76.1 114.1

97 66.7 58.0 87.0

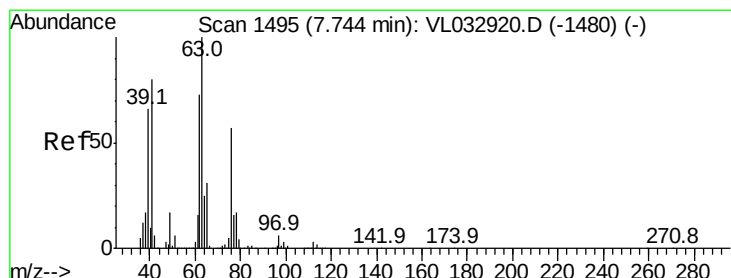
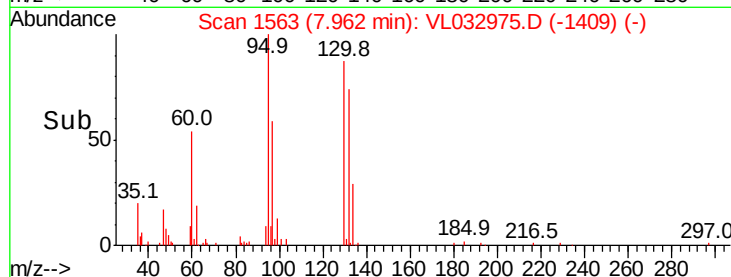
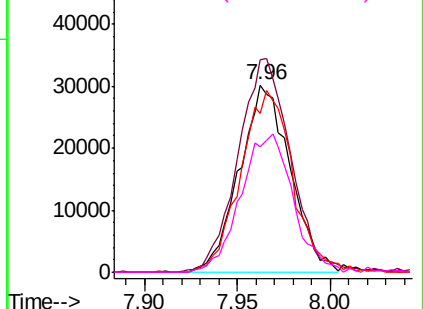


Abundance Ion 130.00 (129.70 to 130.70): V

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: 8.956 ppbv

RT: 7.30 min Scan# 1356

Delta R.T. -0.45 min

Lab File: VL032975.D

Acq: 12 Dec 2018 4:25

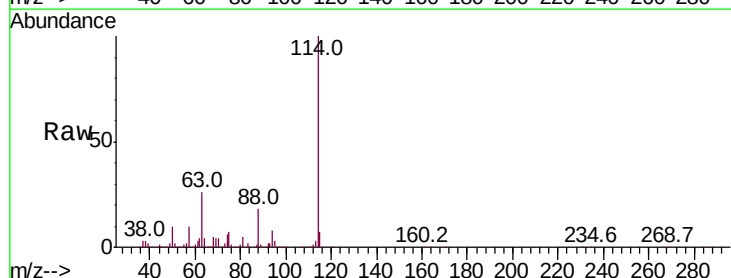
Tgt Ion: 63 Resp: 656289

Ion Ratio Lower Upper

63 100

41 0.1 63.9 95.9#

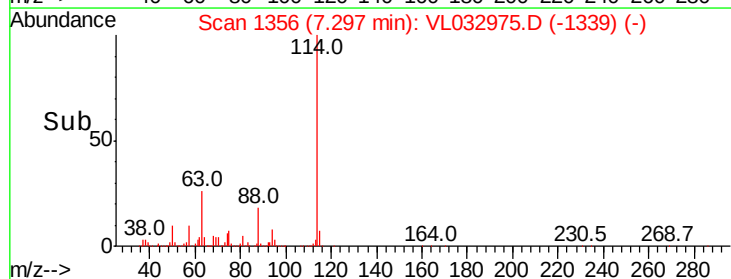
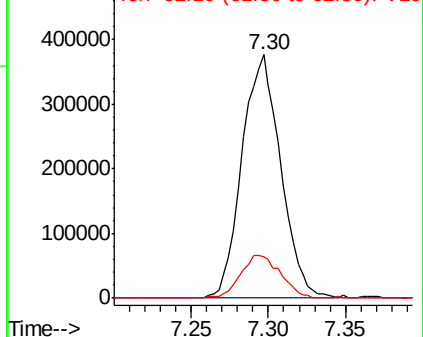
62 16.9 58.8 88.2#

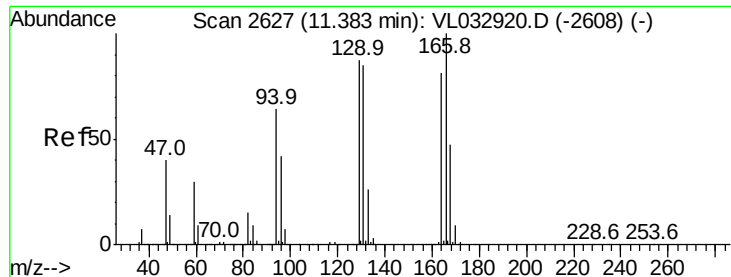


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#52

Tetrachloroethene

Concen: 5.064 ppbv

RT: 11.38 min Scan# 2625

Delta R.T. -0.01 min

Lab File: VL032975.D

Acq: 12 Dec 2018 4:25

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:164 Resp: 355939

Ion Ratio Lower Upper

164 100

166 115.2 98.8 148.2

129 109.1 85.5 128.3

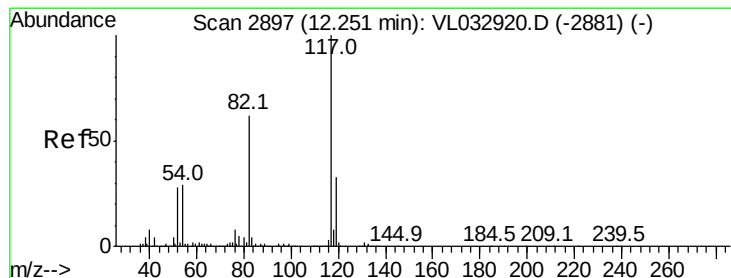
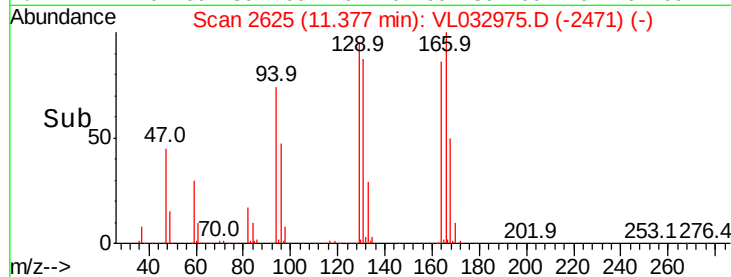
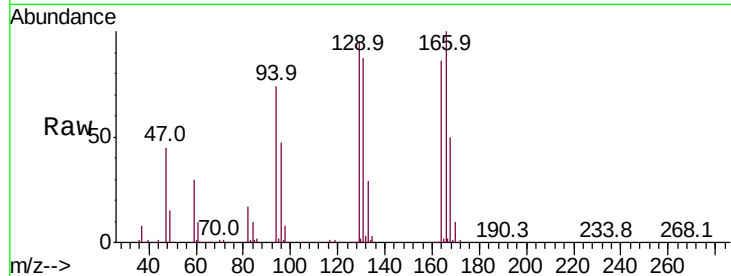
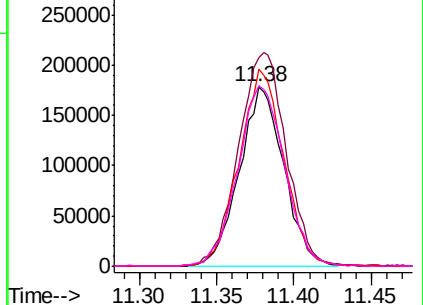
131 100.0 84.4 126.6

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: 12.25 min Scan# 2895

Delta R.T. -0.01 min

Lab File: VL032975.D

Acq: 12 Dec 2018 4:25

Tgt Ion:117 Resp: 2453391

Ion Ratio Lower Upper

117 100

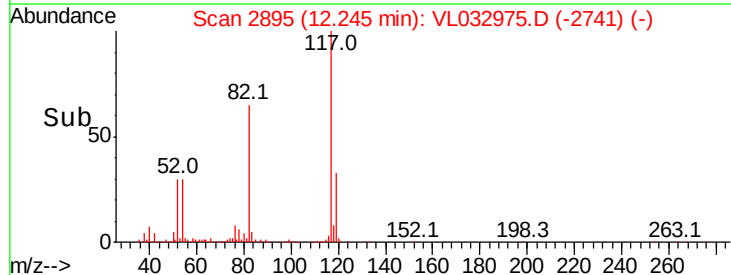
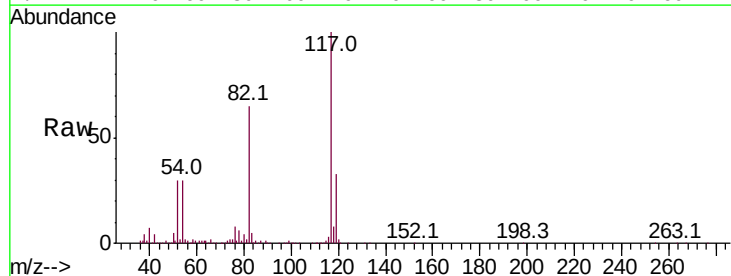
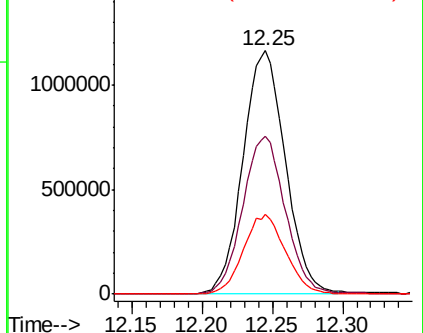
82 65.9 47.8 71.8

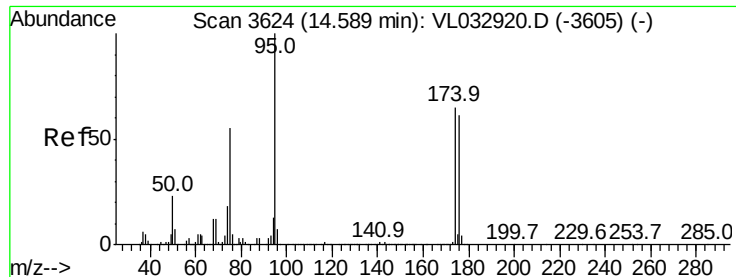
119 32.8 43.1 64.7#

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: 9.972 ppbv

RT: 14.58 min Scan# 3622

Delta R.T. -0.01 min

Lab File: VL032975.D

Acq: 12 Dec 2018 4:25

Instrument :

MSVOA_L

ClientSampleId :

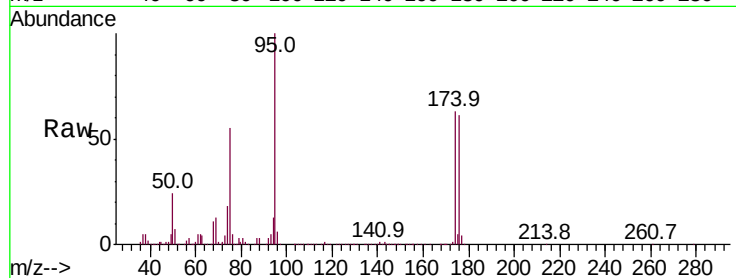
Tot Ion: 95 Resp: 1807468

Ion Ratio Lower Upper

95 100

174 65.1 51.4 77.0

175 4.7 3.8 5.6



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

