

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL021419\
 Data File : VL033218.D
 Acq On : 15 Feb 2019 4:09
 Operator : SY/AP
 Sample : K1483-10DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 21 01:44:33 2019

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL020519AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 20 06:00:52 2019

QLast Update : Wed Feb 20 06:00:52 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	869834	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	1980814	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1966890	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1613250	10.52	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.20%

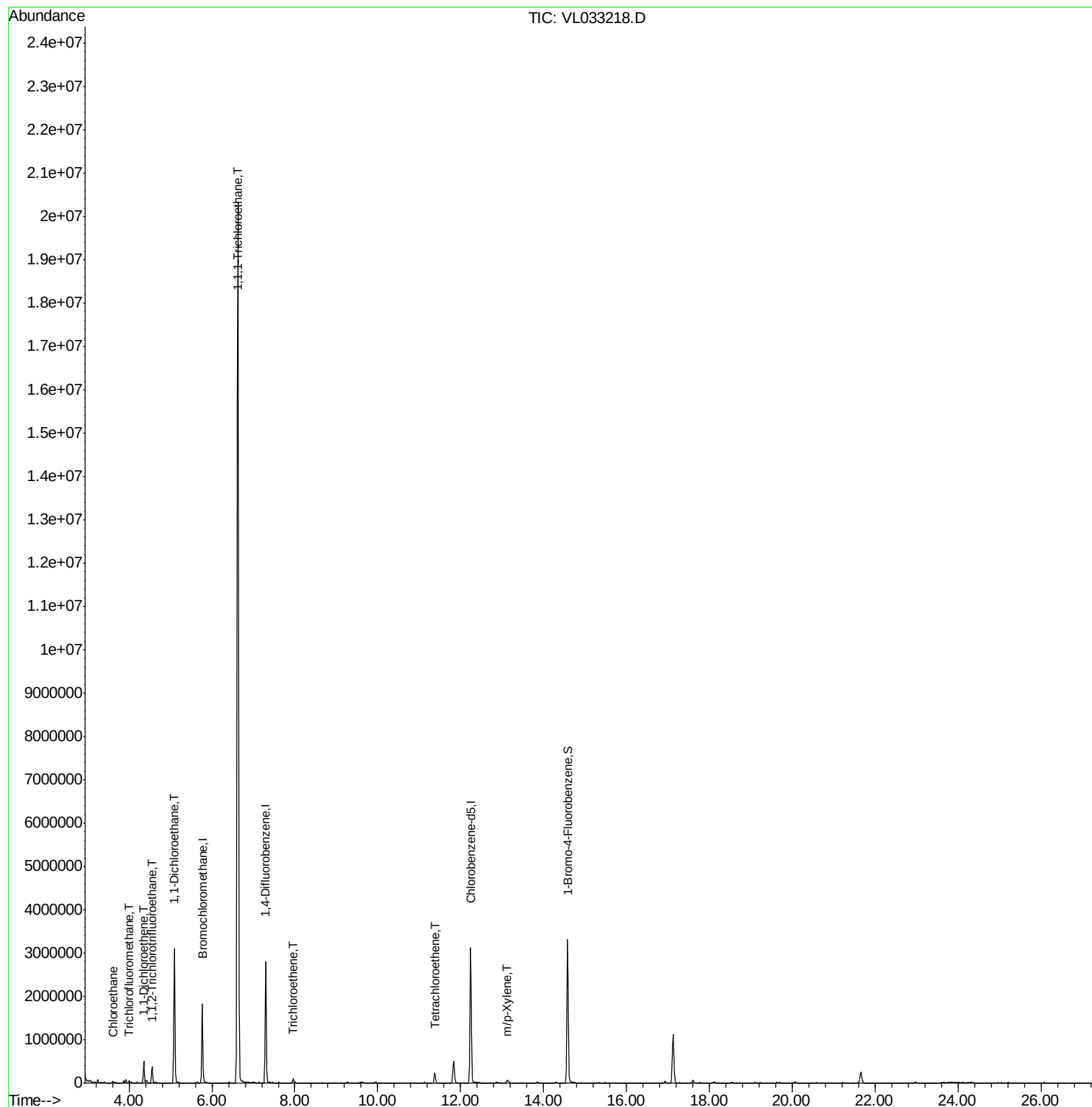
Target Compounds

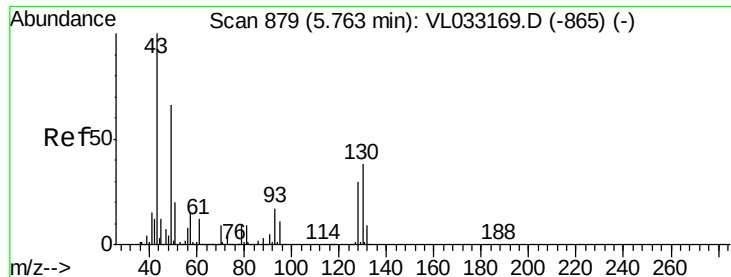
	R.T.	QIon	Response	Conc	Units	Ovalue
7) Chloroethane	3.60	64	13393	0.709	ppbv	90
11) Trichlorofluoromethane	4.01	101	30469	0.226	ppbv	89
12) 1,1,2-Trichlorotrifluoroet	4.55	101	131053	1.405	ppbv	99
18) 1,1-Dichloroethene	4.35	96	147594	3.534	ppbv	96
24) 1,1-Dichloroethane	5.09	63	2678121	22.293	ppbv	100
32) 1,1,1-Trichloroethane	6.62	97	14544766	83.330	ppbv	93
38) Trichloroethene	7.97	130	23957m	0.279	ppbv	
52) Tetrachloroethene	11.38	164	53477m	0.693	ppbv	
59) m/p-Xylene	13.13	91	65225m	0.243	ppbv	

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

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 880

Delta R.T. 0.00 min

Lab File: VL033218.D

Acq: 15 Feb 2019 4:09

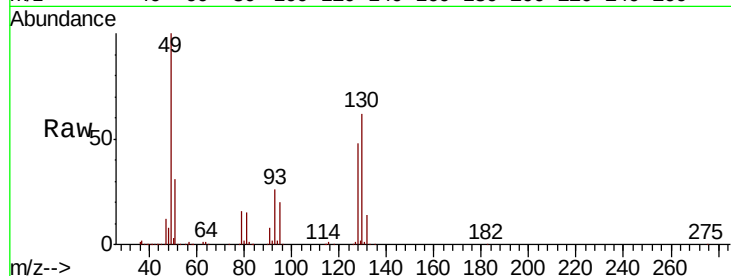
Tot Ion: 49 Resp: 869834

Ion Ratio Lower Upper

49 100

128 45.8 23.6 71.0

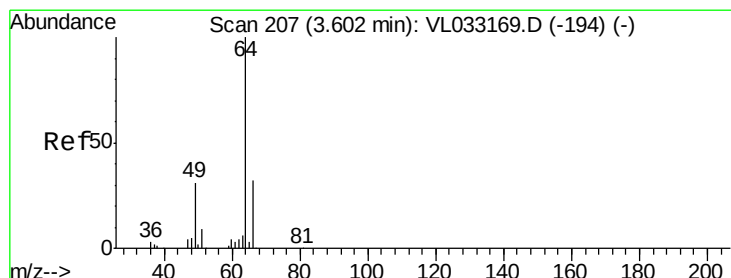
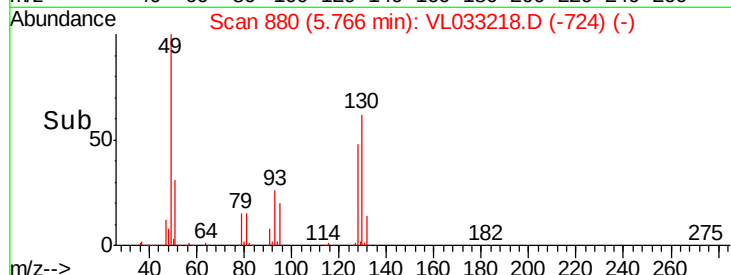
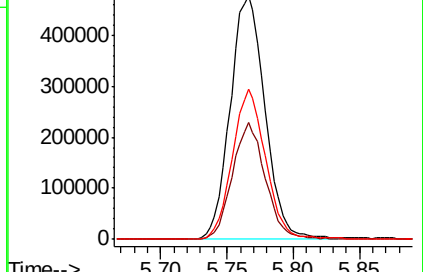
130 59.6 30.3 91.0



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



#7

Chloroethane

Concen: 0.709 ppbv

RT: 3.60 min Scan# 206

Delta R.T. -0.00 min

Lab File: VL033218.D

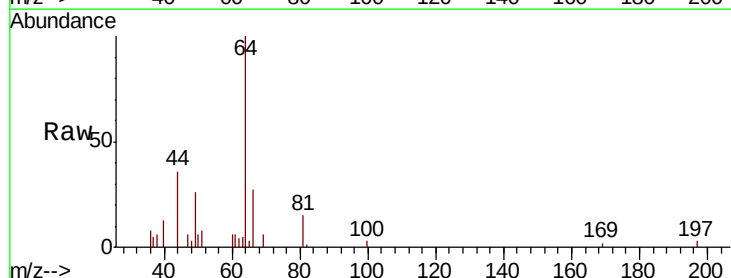
Acq: 15 Feb 2019 4:09

Tgt Ion: 64 Resp: 13393

Ion Ratio Lower Upper

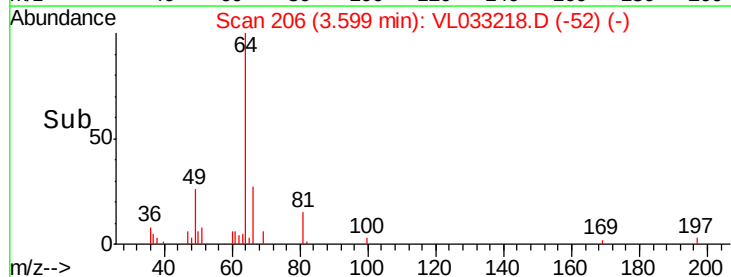
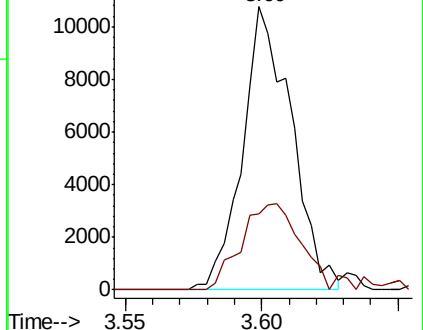
64 100

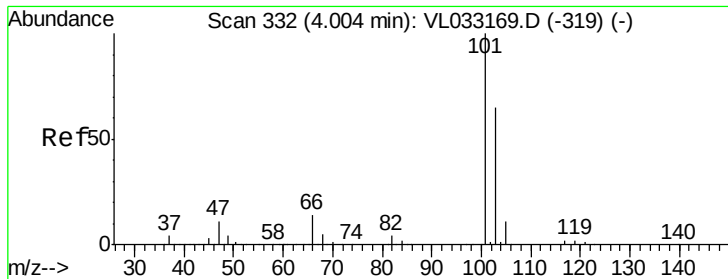
66 26.7 26.0 39.0



Abundance Ion 64.10 (63.80 to 64.80): VL0

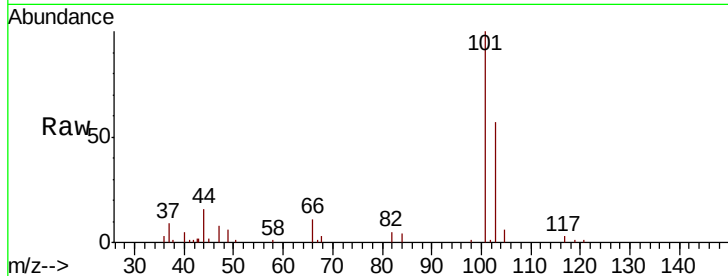
Ion 66.10 (65.80 to 66.80): VL0



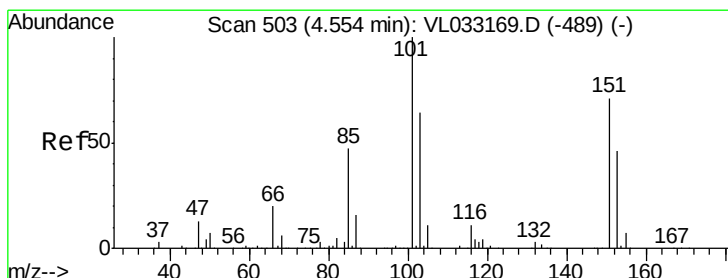
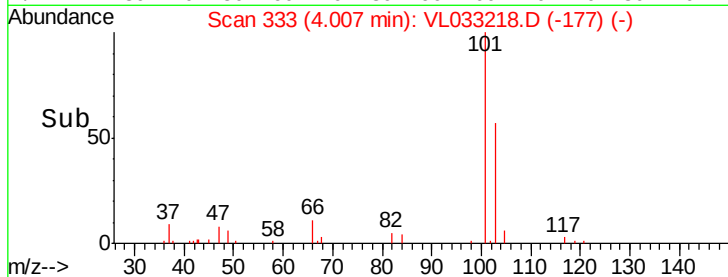
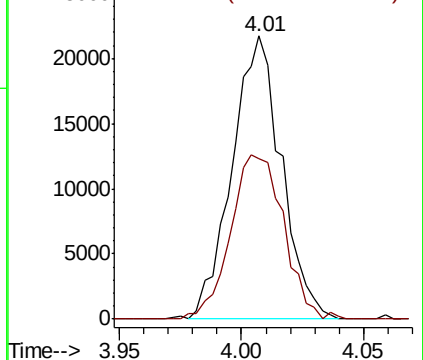


#11
 Trichlorofluoromethane
 Concen: 0.226 ppbv
 RT: 4.01 min Scan# 333
 Delta R.T. 0.00 min
 Lab File: VL033218.D
 Acq: 15 Feb 2019 4:09

Tot Ion:101 Resp: 30469
 Ion Ratio Lower Upper
 101 100
 103 55.8 51.7 77.5

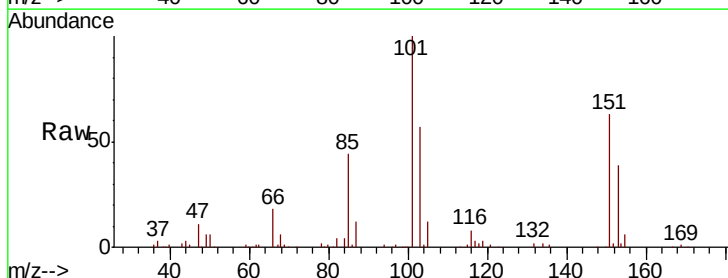


Abundance Ion 101.00 (100.70 to 101.70): V
 Ion 103.00 (102.70 to 103.70): V

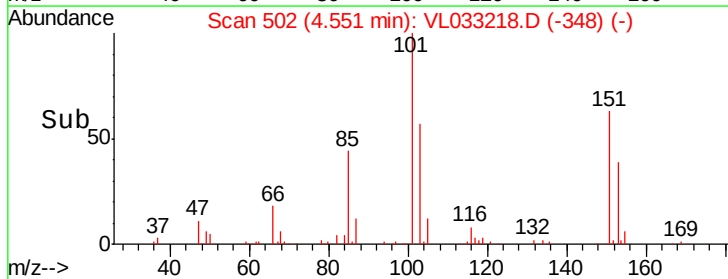
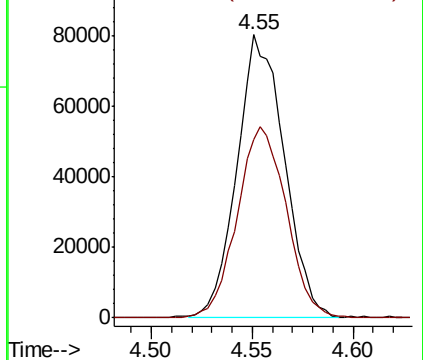


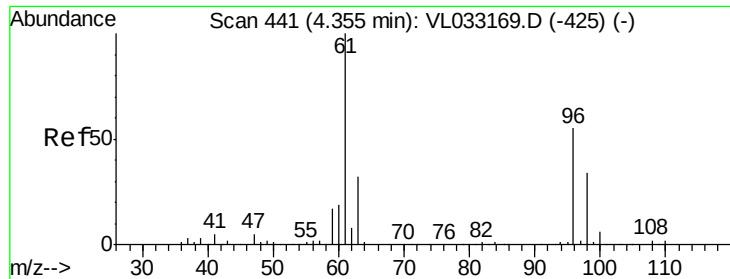
#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 1.405 ppbv
 RT: 4.55 min Scan# 502
 Delta R.T. -0.00 min
 Lab File: VL033218.D
 Acq: 15 Feb 2019 4:09

Tgt Ion:101 Resp: 131053
 Ion Ratio Lower Upper
 101 100
 151 70.7 57.4 86.0



Abundance Ion 101.00 (100.70 to 101.70): V
 Ion 151.00 (150.70 to 151.70): V





#18

1,1-Dichloroethene

Concen: 3.534 ppbv

RT: 4.35 min Scan# 441

Delta R.T. -0.00 min

Lab File: VL033218.D

Acq: 15 Feb 2019 4:09

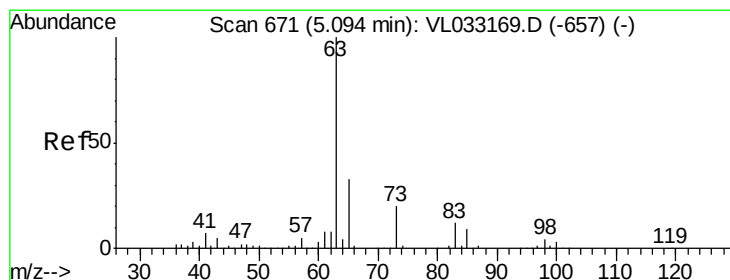
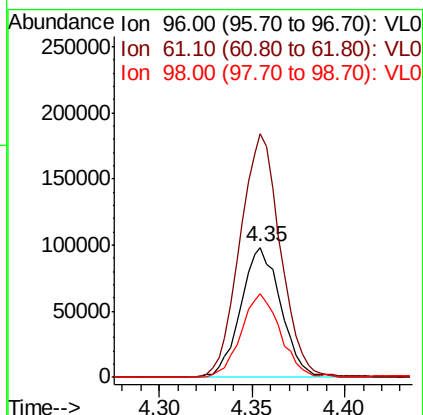
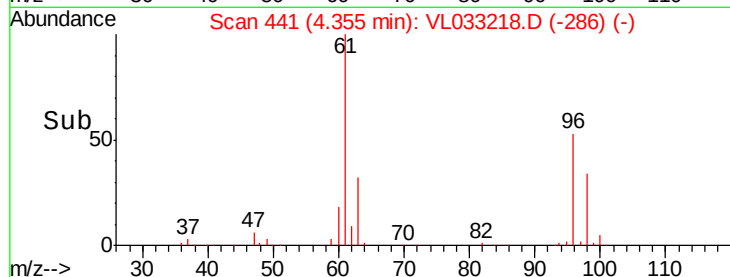
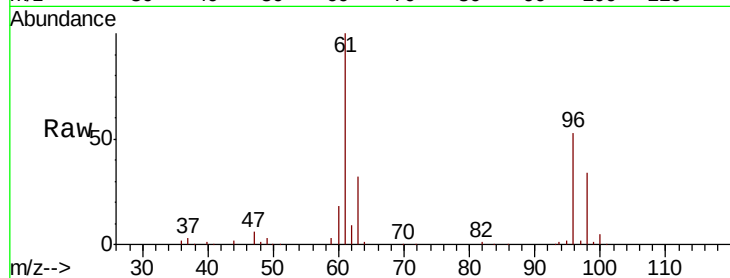
Tot Ion: 96 Resp: 147594

Ion Ratio Lower Upper

96 100

61 187.3 145.0 217.6

98 64.1 50.0 75.0



#24

1,1-Dichloroethane

Concen: 22.293 ppbv

RT: 5.09 min Scan# 671

Delta R.T. -0.00 min

Lab File: VL033218.D

Acq: 15 Feb 2019 4:09

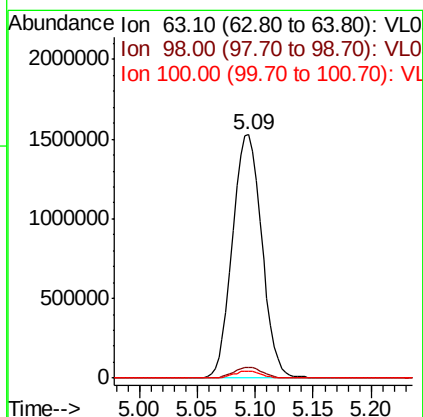
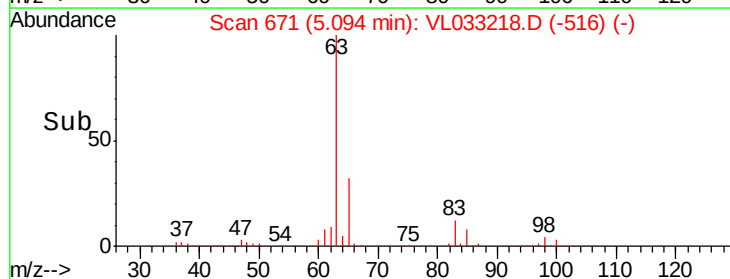
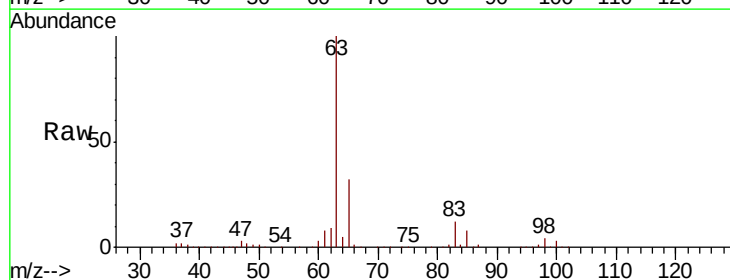
Tgt Ion: 63 Resp: 2678121

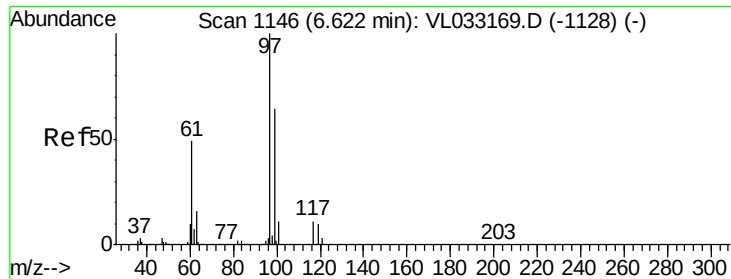
Ion Ratio Lower Upper

63 100

98 4.3 2.1 6.5

100 2.8 1.4 4.2





#32

1,1,1-Trichloroethane

Concen: 83.330 ppbv

RT: 6.62 min Scan# 1147

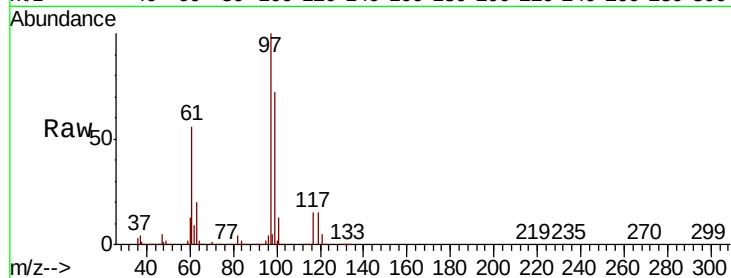
Delta R.T. 0.00 min

Lab File: VL033218.D

Acq: 15 Feb 2019 4:09

Tot Ion: 97 Resp: 14544766

Ion	Ratio	Lower	Upper
97	100		
99	69.4	51.4	77.2
61	53.0	38.8	58.2

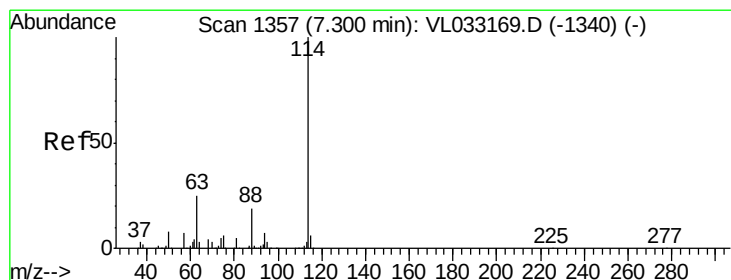
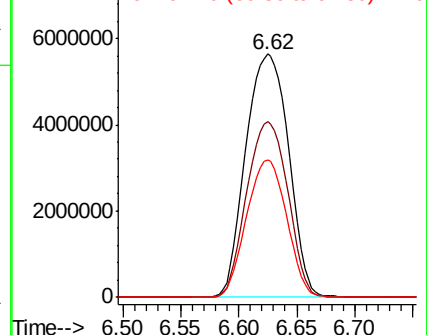
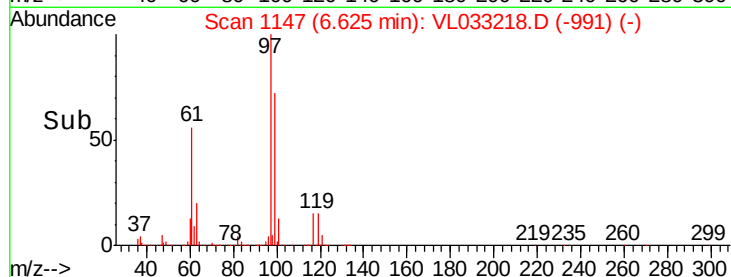


Abundance

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: 7.30 min Scan# 1356

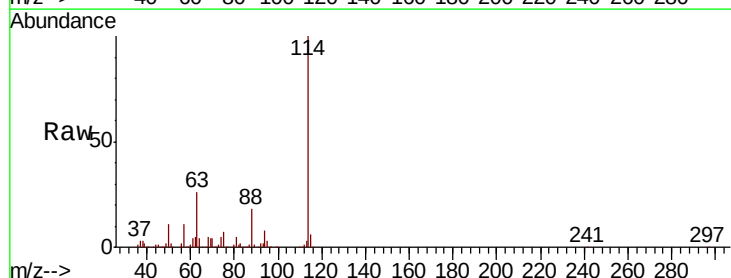
Delta R.T. -0.00 min

Lab File: VL033218.D

Acq: 15 Feb 2019 4:09

Tgt Ion: 114 Resp: 1980814

Ion	Ratio	Lower	Upper
114	100		
63	26.8	20.8	31.2
88	18.5	14.6	22.0

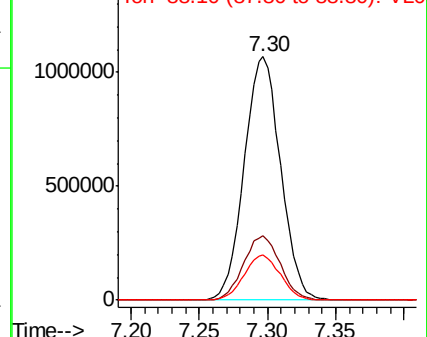
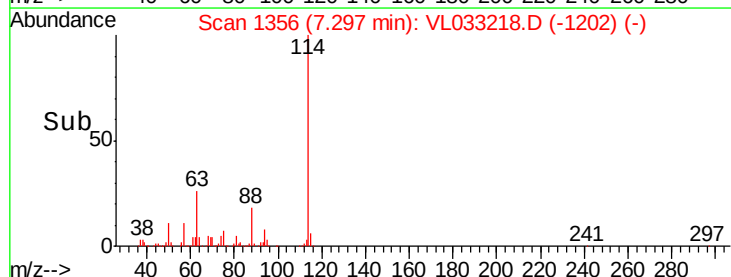


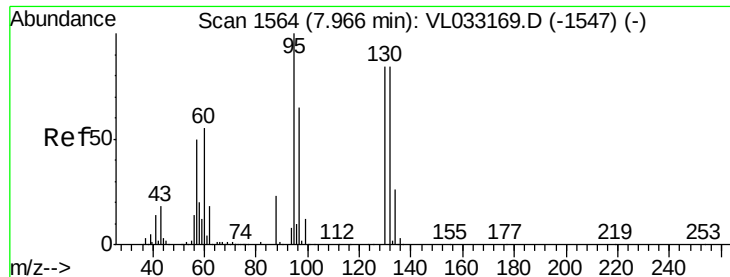
Abundance

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





#38

Trichloroethene

Concen: 0.279 ppbv m

RT: 7.97 min Scan# 1564

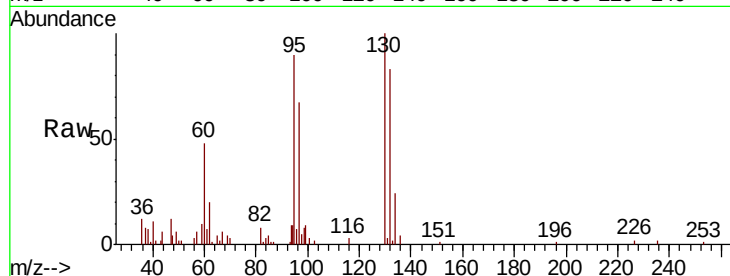
Delta R.T. -0.00 min

Lab File: VL033218.D

Acq: 15 Feb 2019 4:09

Tot Ion:130 Resp: 23957

Ion	Ratio	Lower	Upper
130	100		
95	89.7	95.5	143.3#
132	82.5	80.0	120.0
97	67.3	62.2	93.2



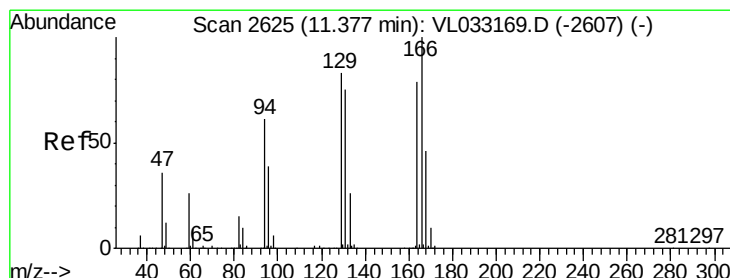
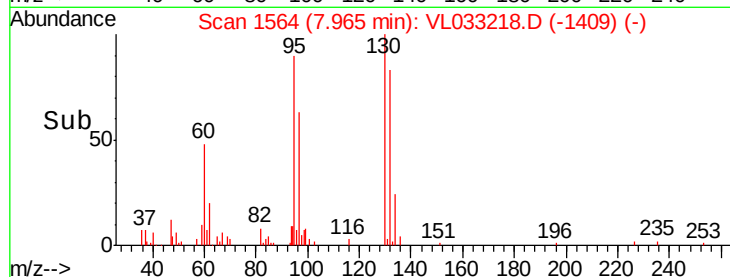
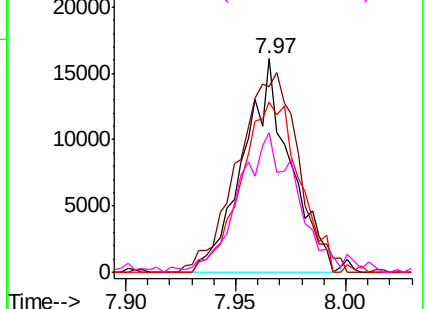
Abundance

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



#52

Tetrachloroethene

Concen: 0.693 ppbv m

RT: 11.38 min Scan# 2625

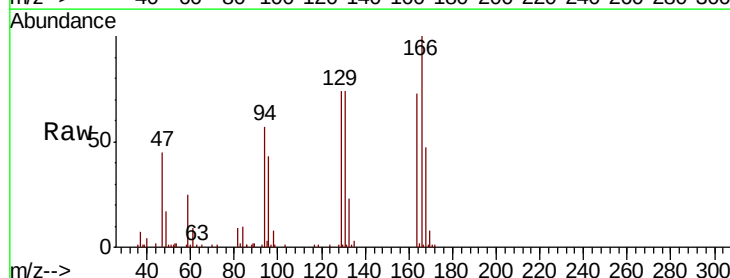
Delta R.T. -0.00 min

Lab File: VL033218.D

Acq: 15 Feb 2019 4:09

Tgt Ion:164 Resp: 53477

Ion	Ratio	Lower	Upper
164	100		
166	136.2	100.9	151.3
129	100.2	83.9	125.9
131	100.6	76.2	114.2



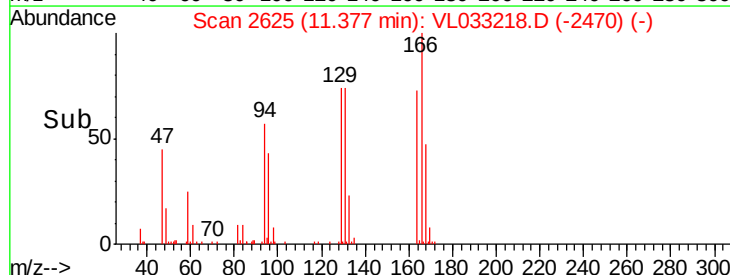
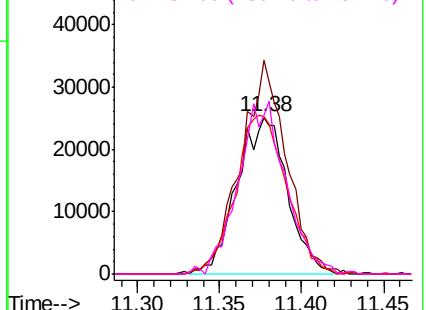
Abundance

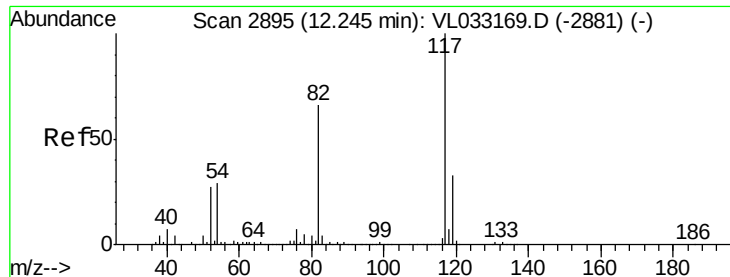
Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

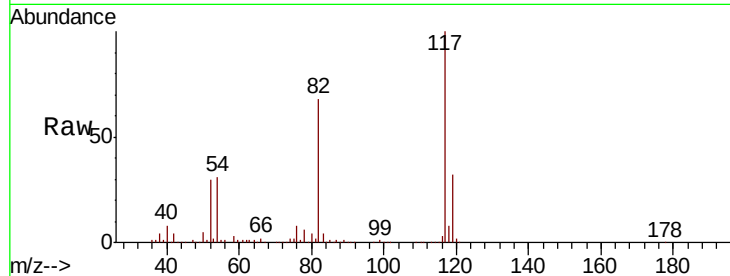
Ion 131.00 (130.70 to 131.70): V



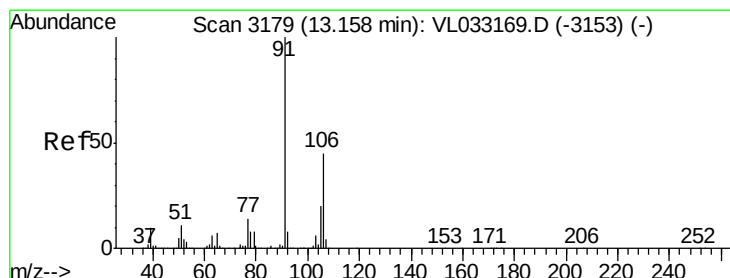
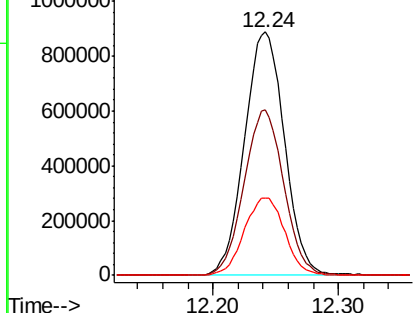
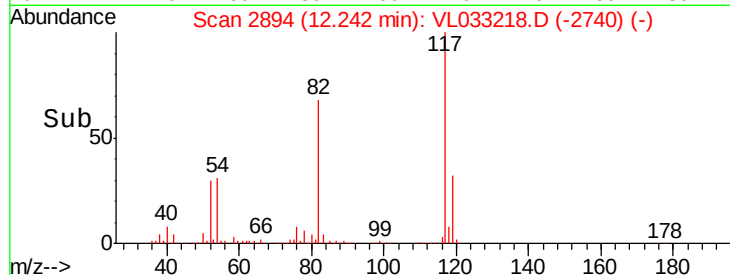


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2894
Delta R.T. -0.00 min
Lab File: VL033218.D
Acq: 15 Feb 2019 4:09

Tot Ion:117 Resp: 1966890
Ion Ratio Lower Upper
117 100
82 68.0 53.8 80.8
119 32.3 46.9 70.3#

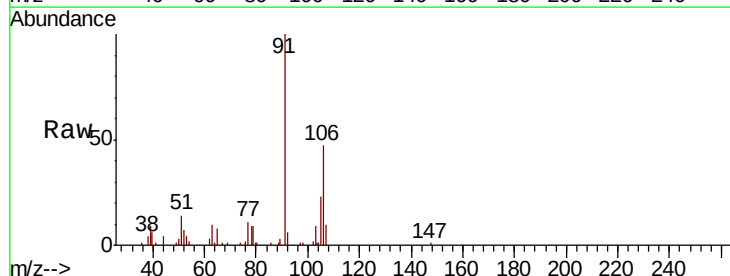


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

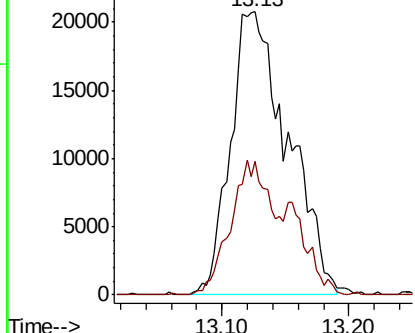
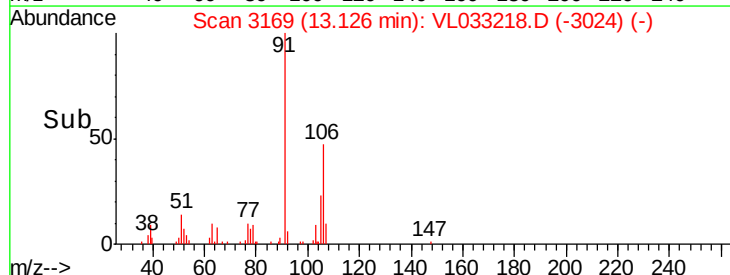


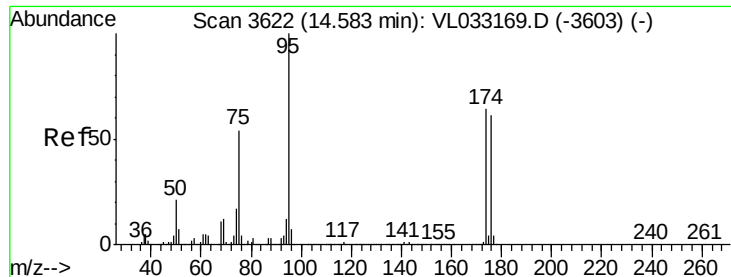
#59
m/p-Xylene
Concen: 0.243 ppbv m
RT: 13.13 min Scan# 3169
Delta R.T. -0.03 min
Lab File: VL033218.D
Acq: 15 Feb 2019 4:09

Tgt Ion: 91 Resp: 65225
Ion Ratio Lower Upper
91 100
106 0.0 36.6 55.0#



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: 10.525 ppbv

RT: 14.58 min Scan# 3620

Delta R.T. -0.01 min

Lab File: VL033218.D

Acq: 15 Feb 2019 4:09

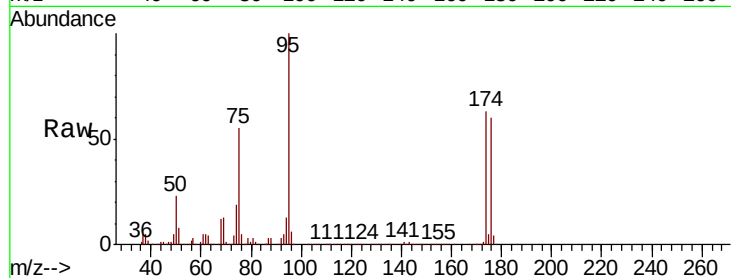
Tot Ion: 95 Resp: 1613250

Ion Ratio Lower Upper

95 100

174 63.4 51.1 76.7

175 4.6 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

