

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL012218\
 Data File : VL031419.D
 Acq On : 22 Jan 2018 16:01
 Operator : SY/AP
 Sample : VSTDIC0.1
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

Manual Integrations
 APPROVED

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 1/24/2018 5:10:13 PM

Quant Time: Jan 22 17:06:21 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL012218AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 22 2018
 QLast Update : Mon Jan 22 16:42:46 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.90	49	1291305	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.44	114	2988289	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.41	117	2971223	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.75	95	2414266	10.29	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.40	62	7317	0.08	ppbv	# 81
32) 1,1,1-Trichloroethane	6.76	97	21921m	0.08	ppbv	
35) Carbon Tetrachloride	7.29	117	23604m	0.08	ppbv	
38) Trichloroethene	8.12	130	9948m	0.08	ppbv	
52) Tetrachloroethene	11.54	164	10309m	0.08	ppbv	
63) 1,1,2,2-Tetrachloroethane	14.00	83	24694m	0.08	ppbv	

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

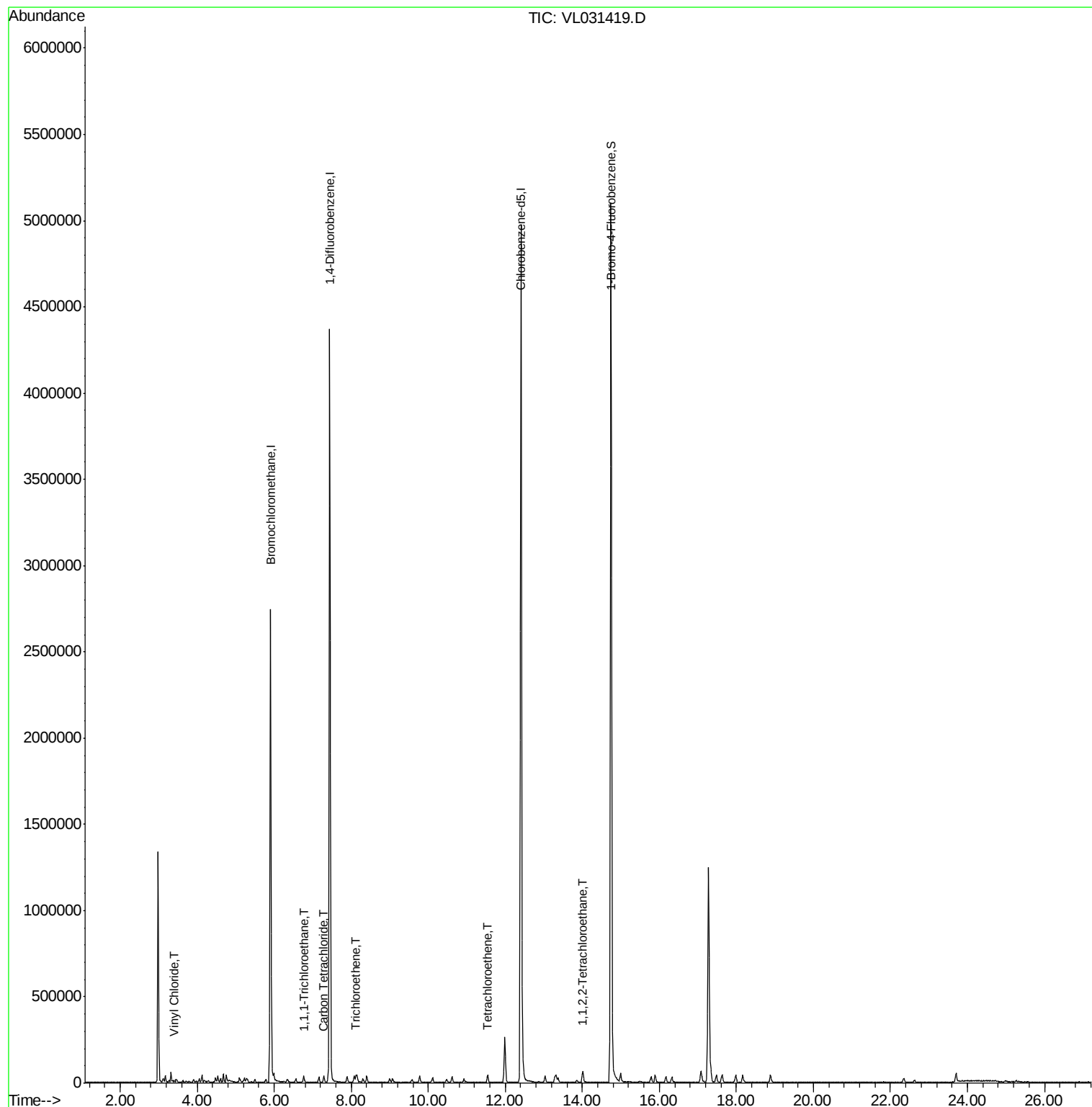
Data Path : W:\HPCHEM1\MSVOA L\DATA\VL012218\
Data File : VL031419.D
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Operator : SY/AP
Sample : VSTDIC0.1
Misc : 400ml/MSVOA L
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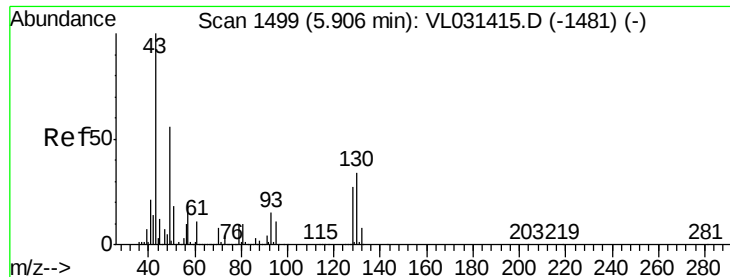
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

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Quant Time: Jan 22 17:06:21 2018
Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL012218AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan
QLast Update : Mon Jan 22 16:42:46 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.90 min Scan# 1498

Delta R.T. -0.01 min

Lab File: VL031419.D

Acq: 22 Jan 2018 16:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tot Ion: 49 Resp: 1291305

Ion Ratio Lower Upper

49 100

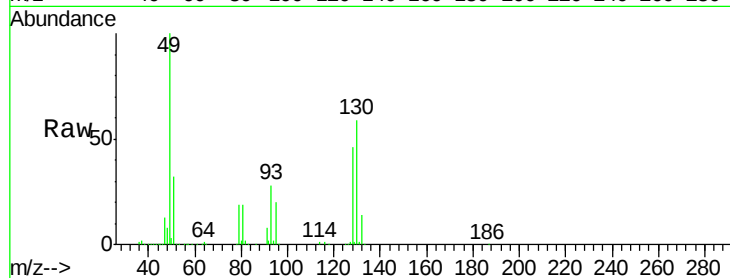
128 46.4 23.5 70.6

130 59.4 29.9 89.7

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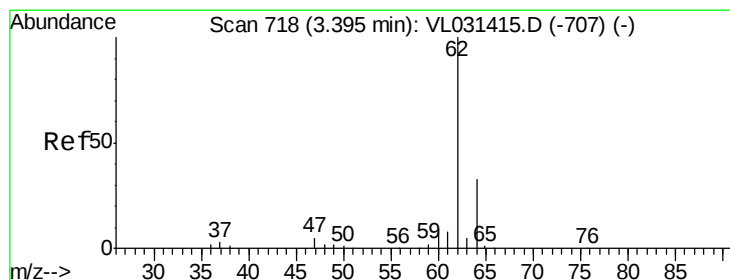
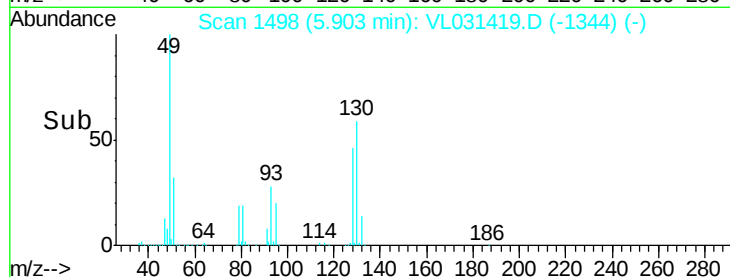
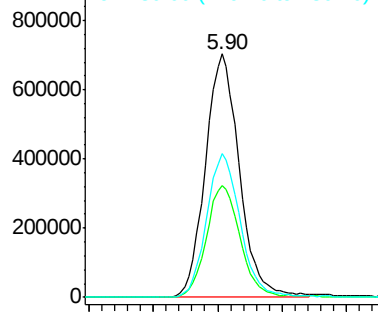
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#5

Vinyl Chloride

Concen: 0.08 ppbv

RT: 3.40 min Scan# 718

Delta R.T. -0.00 min

Lab File: VL031419.D

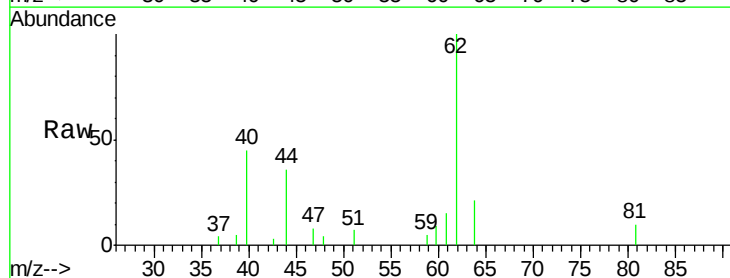
Acq: 22 Jan 2018 16:01

Tgt Ion: 62 Resp: 7317

Ion Ratio Lower Upper

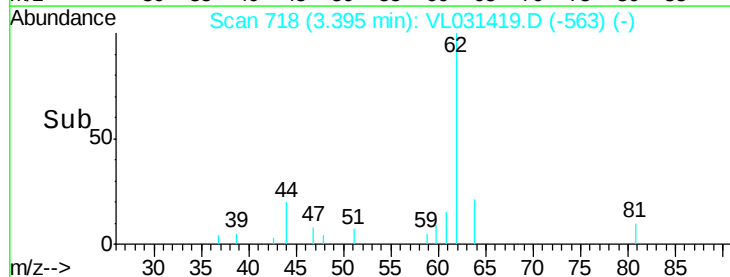
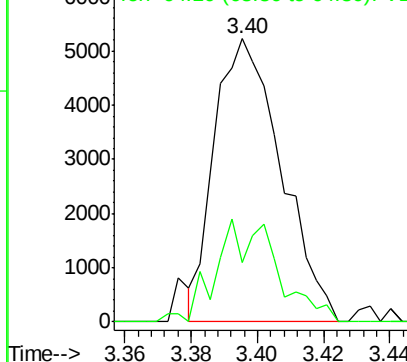
62 100

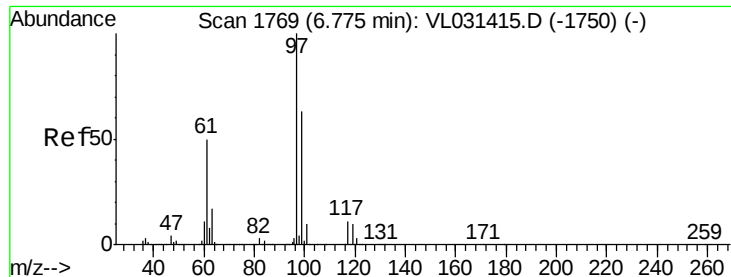
64 20.9 25.4 38.0#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0





#32

1,1,1-Trichloroethane

Concen: 0.08 ppbv m

RT: 6.76 min Scan# 1766

Delta R.T. -0.01 min

Lab File: VL031419.D

Acq: 22 Jan 2018 16:01

Instrument :

MSVOA_L

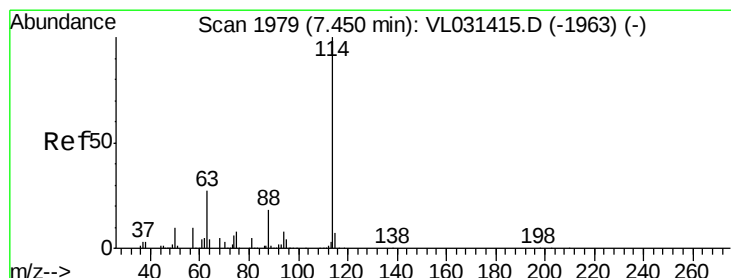
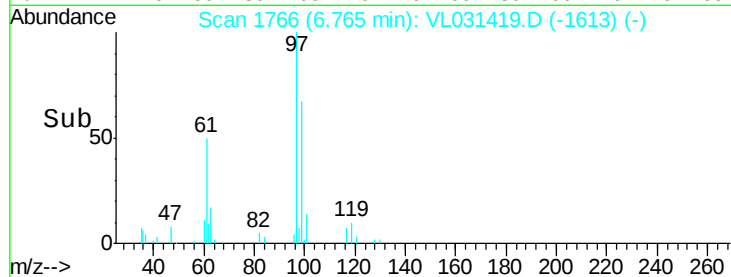
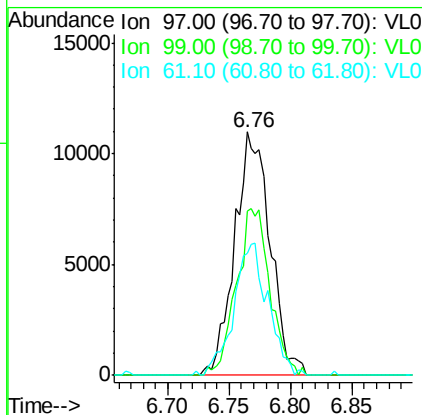
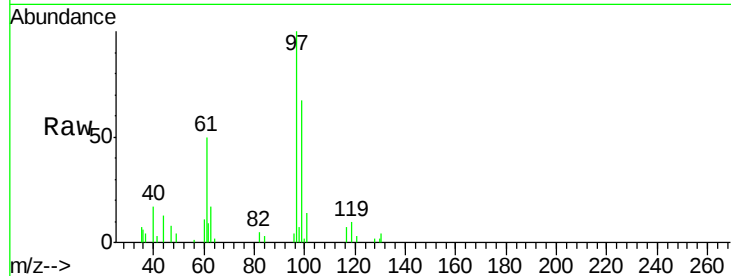
ClientSampled :

VSTDIC0.1

Tot Ion:	97	Resp:	21921
Ion	Ratio	Lower	Upper
97	100		
99	0.0	51.9	77.9#
61	0.0	40.6	61.0#

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#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

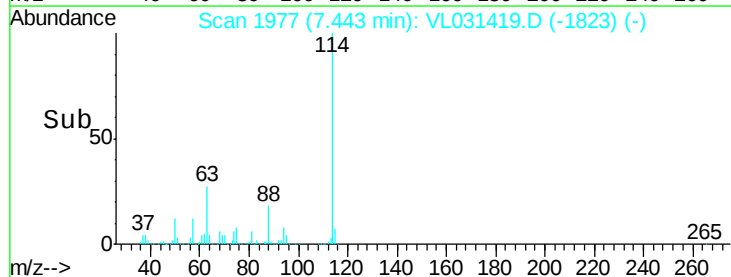
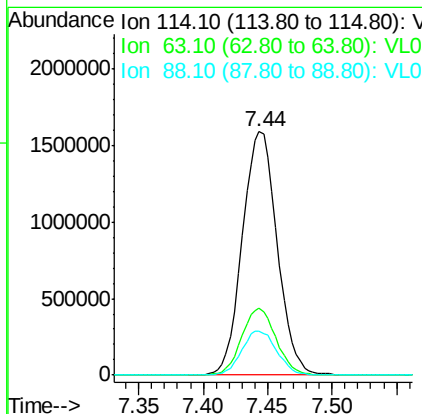
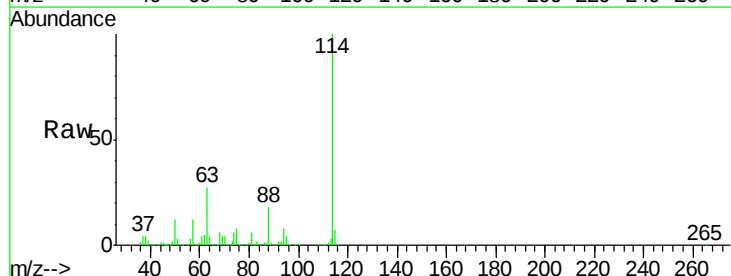
RT: 7.44 min Scan# 1977

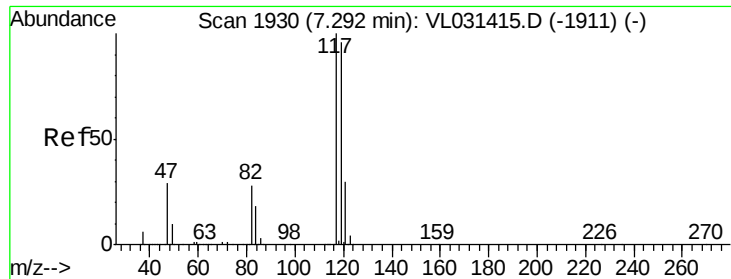
Delta R.T. -0.01 min

Lab File: VL031419.D

Acq: 22 Jan 2018 16:01

Tgt Ion:	114	Resp:	2988289
Ion	Ratio	Lower	Upper
114	100		
63	27.5	22.5	33.7
88	18.4	14.6	22.0





#35

Carbon Tetrachloride

Concen: 0.08 ppbv m

RT: 7.29 min Scan# 1929

Delta R.T. -0.00 min

Lab File: VL031419.D

Acq: 22 Jan 2018 16:01

Instrument :

MSVOA_L

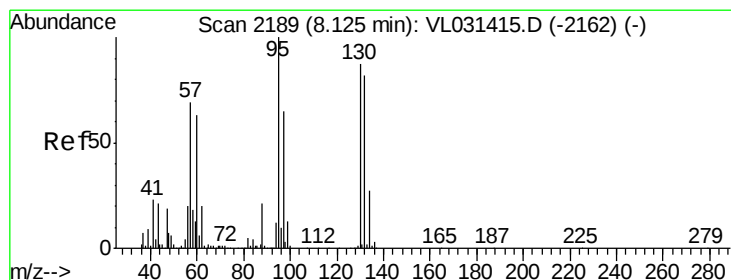
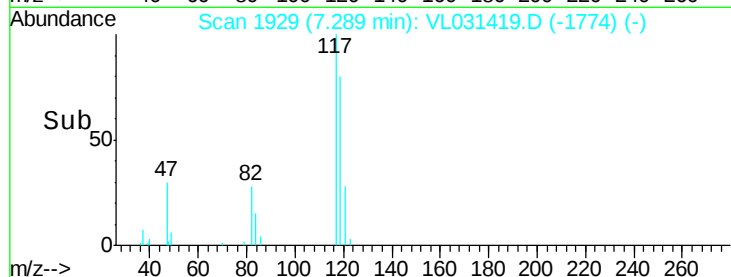
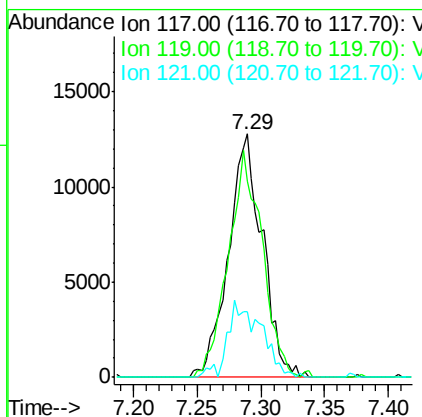
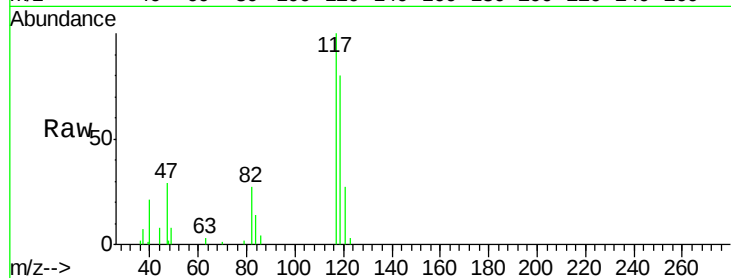
ClientSampleId :

VSTDIC0.1

Tot Ion:	117	Resp:	23604
Ion	Ratio	Lower	Upper
117	100		
119	80.4	74.2	111.4
121	27.1	24.2	36.4

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#38

Trichloroethene

Concen: 0.08 ppbv m

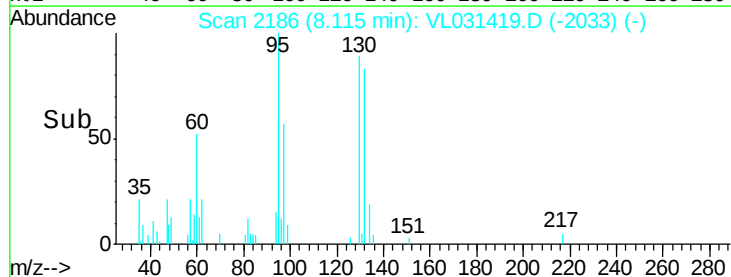
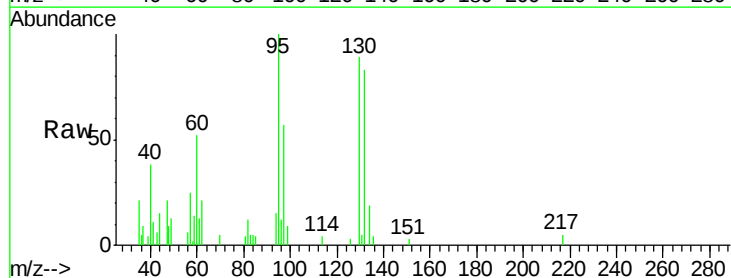
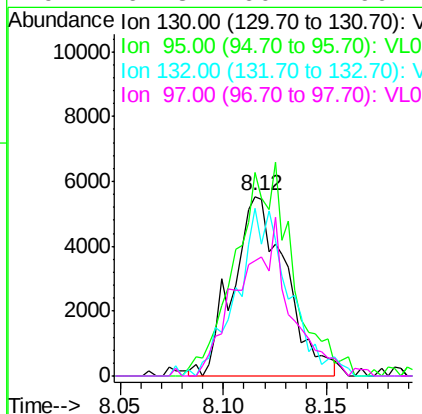
RT: 8.12 min Scan# 2186

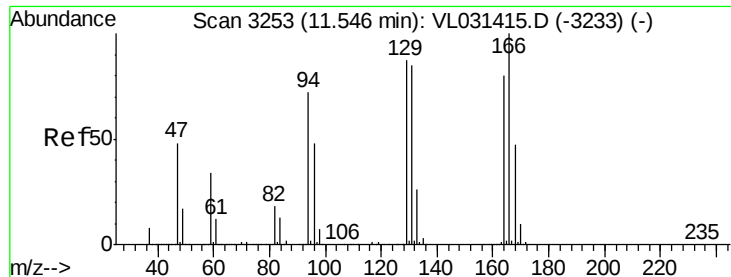
Delta R.T. -0.01 min

Lab File: VL031419.D

Acq: 22 Jan 2018 16:01

Tgt Ion:	130	Resp:	9948
Ion	Ratio	Lower	Upper
130	100		
95	113.0	92.9	139.3
132	93.5	74.9	112.3
97	64.3	60.2	90.4





#52

Tetrachloroethene

Concen: 0.08 ppbv m

RT: 11.54 min Scan# 3251

Delta R.T. -0.01 min

Lab File: VL031419.D

Acq: 22 Jan 2018 16:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tot Ion:164 Resp: 10309

Ion Ratio Lower Upper

164 100

166 81.0 100.2 150.2#

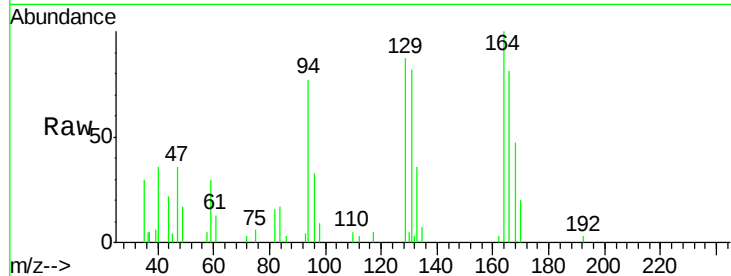
129 86.6 91.4 137.0#

131 82.5 87.4 131.0#

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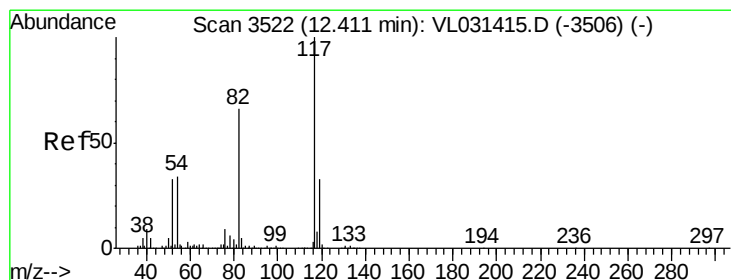
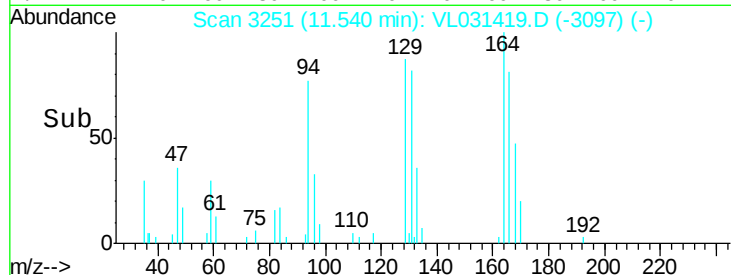
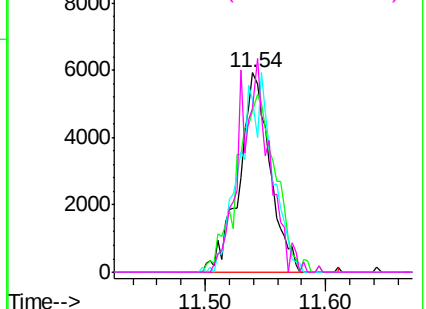


Abundance Ion 163.90 (163.60 to 164.60): V

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: 10.00 ppbv

RT: 12.41 min Scan# 3521

Delta R.T. -0.01 min

Lab File: VL031419.D

Acq: 22 Jan 2018 16:01

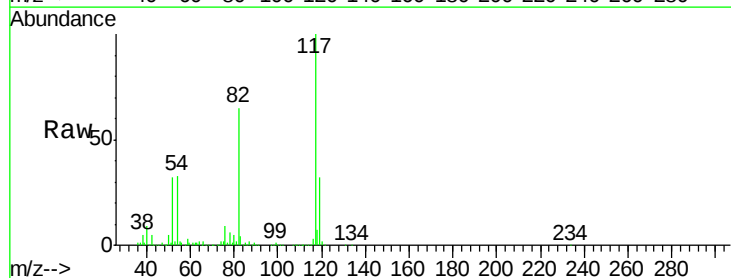
Tgt Ion:117 Resp: 2971223

Ion Ratio Lower Upper

117 100

82 67.2 51.8 77.6

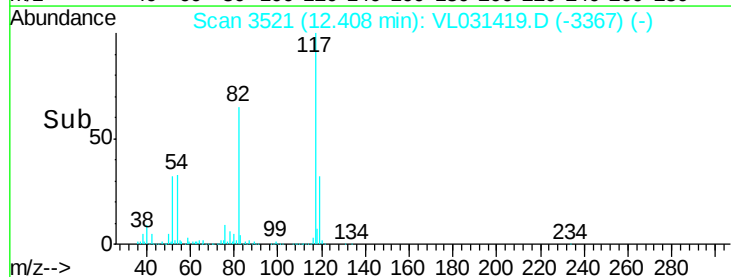
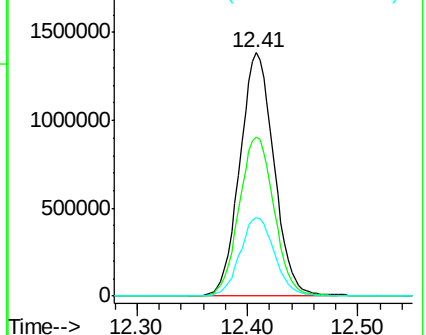
119 32.8 24.2 36.2

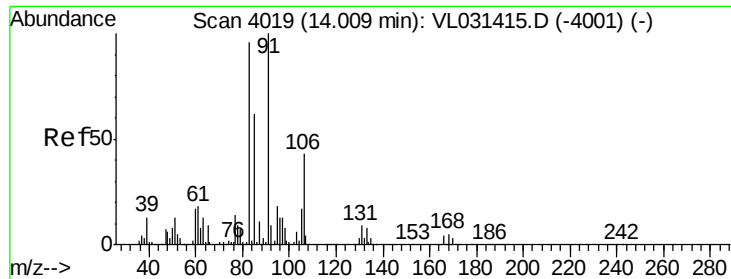


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V





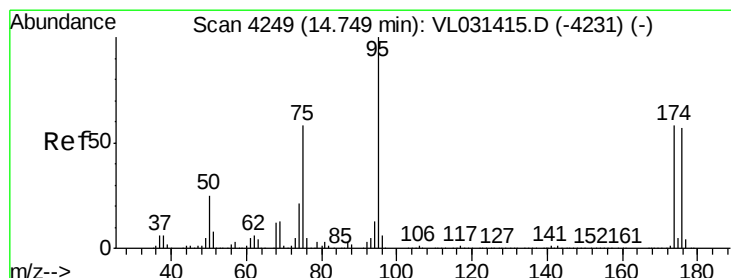
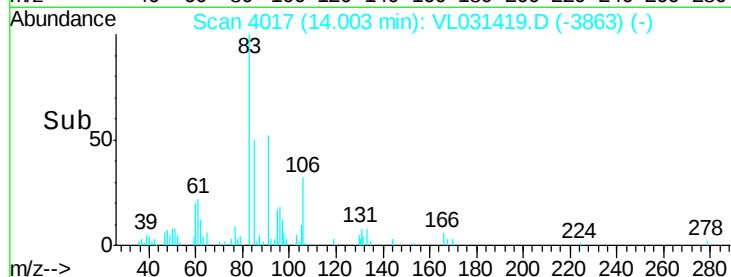
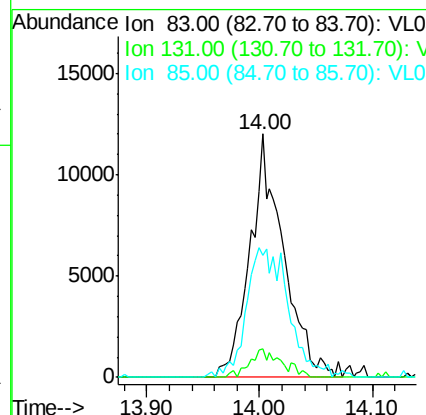
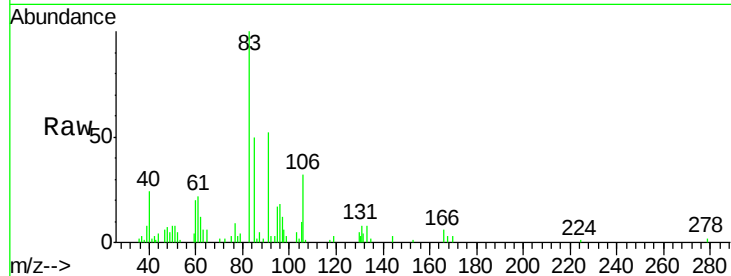
#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.08 ppbv m
 RT: 14.00 min Scan# 4017
 Delta R.T. -0.01 min
 Lab File: VL031419.D
 Acq: 22 Jan 2018 16:01

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

Tot Ion	83	Resp	24694
Ion Ratio	100	Lower	Upper
83	100		
131	11.1	4.8	14.3
85	67.1	32.4	97.0

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#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.29 ppbv
 RT: 14.75 min Scan# 4248
 Delta R.T. -0.00 min
 Lab File: VL031419.D
 Acq: 22 Jan 2018 16:01

Tgt Ion	95	Resp	2414266
Ion Ratio	100	Lower	Upper
95	100		
174	61.2	48.2	72.4
175	4.5	3.6	5.4

