

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL071218\
 Data File : VL032232.D
 Acq On : 12 Jul 2018 20:48
 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

MMDadoda
 7/13/2018 5:22:14 PM

Quant Time: Jul 13 04:16:32 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL071218AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul 13 2018
 QLast Update : Fri Jul 13 03:36:40 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.84	49	1869850	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.37	114	3992770	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.33	117	4840720	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.67	95	3868111	10.41	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.35	62	14726	0.12	ppbv	100
32) 1,1,1-Trichloroethane	6.70	97	26395m	0.08	ppbv	
35) Carbon Tetrachloride	7.22	117	25122m	0.09	ppbv	
38) Trichloroethene	8.05	130	13123m	0.09	ppbv	
52) Tetrachloroethene	11.46	164	14437m	0.10	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.93	83	47815m	0.10	ppbv	

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

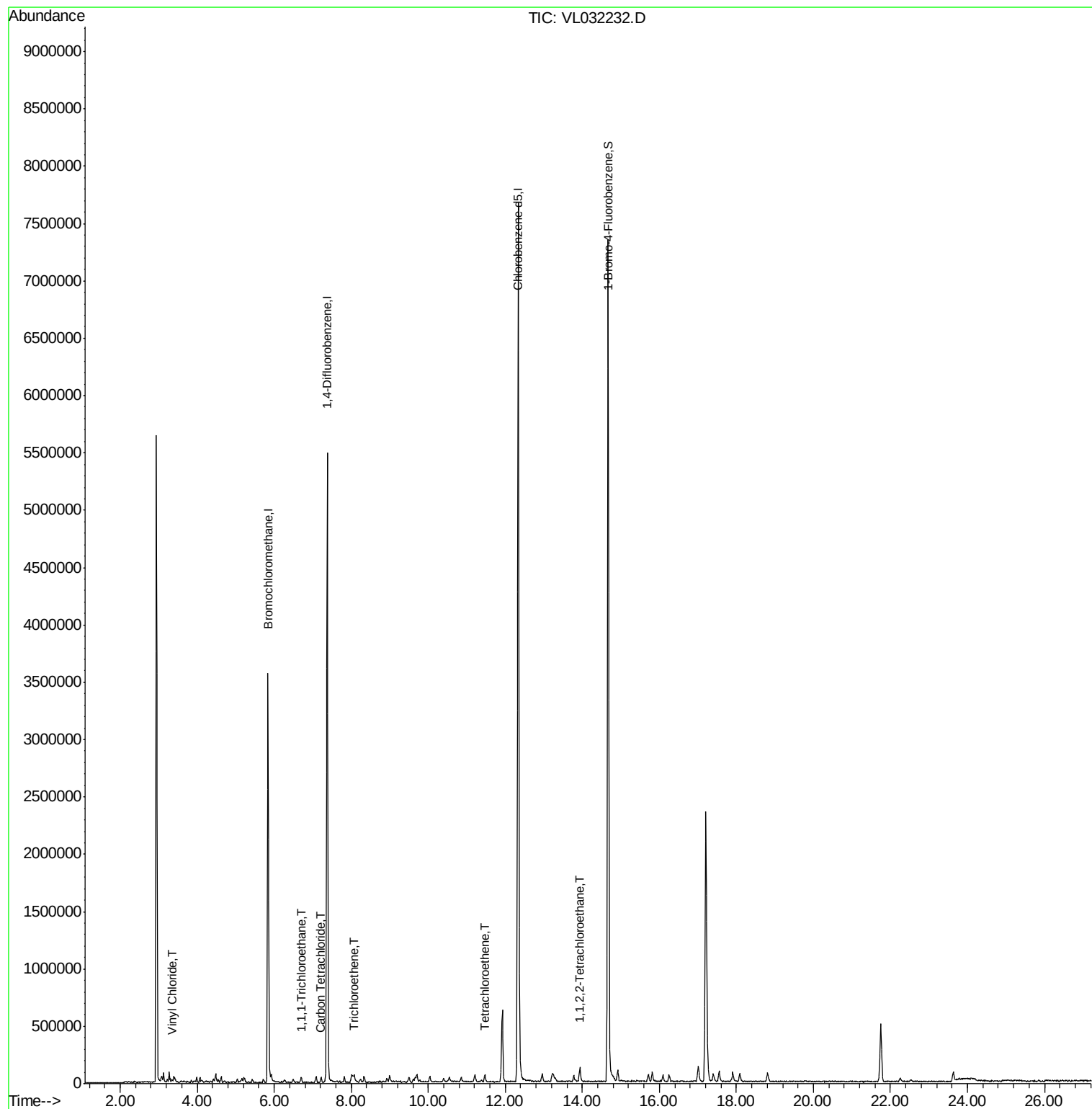
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL071218\
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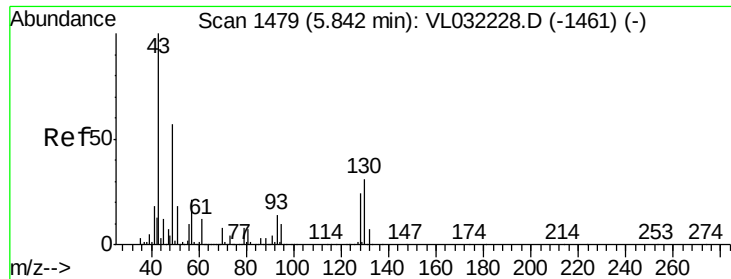
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

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Quant Time: Jul 13 04:16:32 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL071218AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul
QLast Update : Fri Jul 13 03:36:40 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.84 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VL032232.D

Acq: 12 Jul 2018 20:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tot Ion: 49 Resp: 1869850

Ion Ratio Lower Upper

49 100

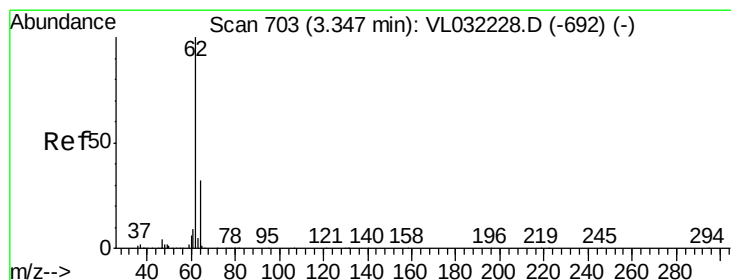
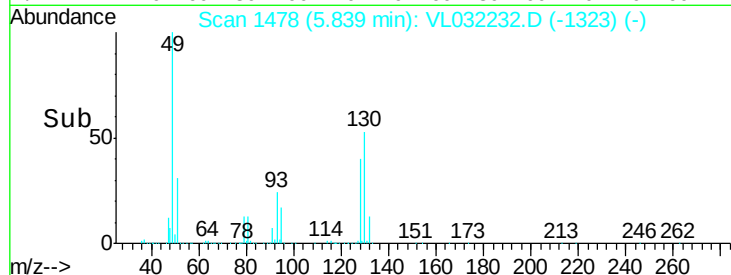
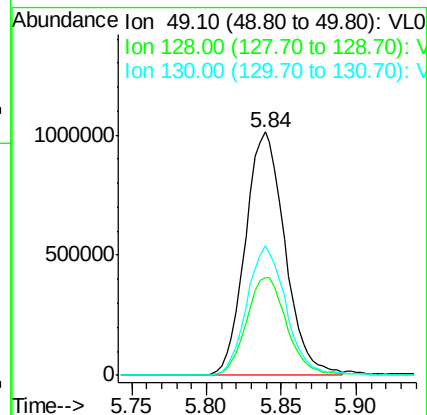
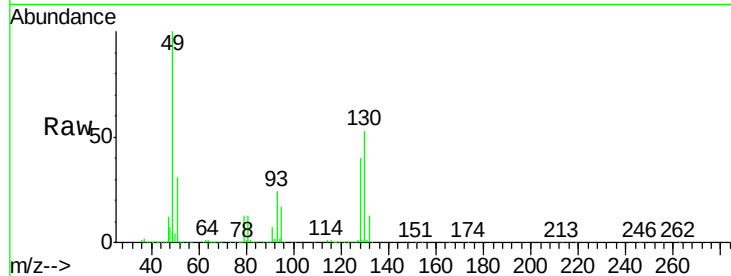
128 41.6 20.9 62.8

130 53.4 27.0 81.0

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#5

Vinyl Chloride

Concen: 0.12 ppbv

RT: 3.35 min Scan# 703

Delta R.T. 0.00 min

Lab File: VL032232.D

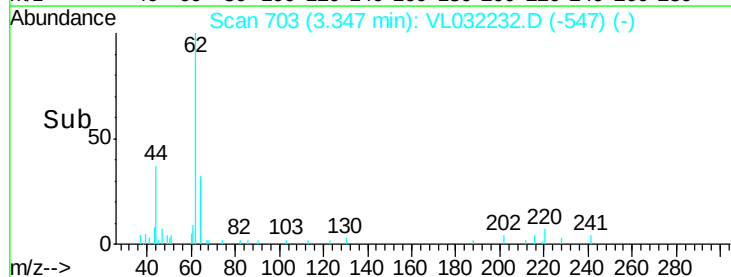
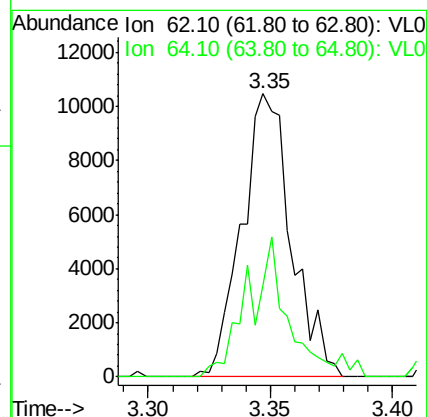
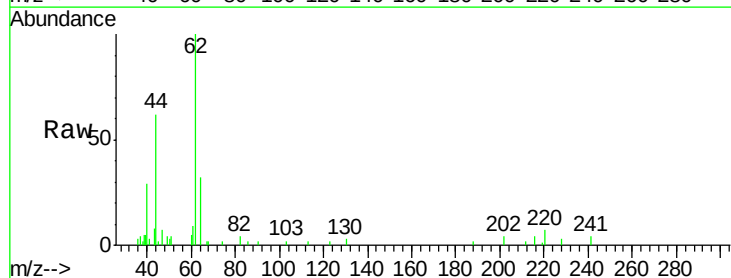
Acq: 12 Jul 2018 20:48

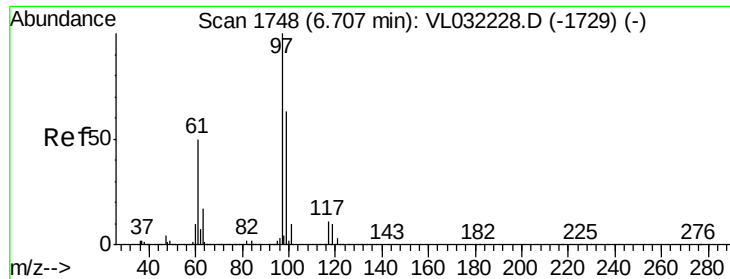
Tgt Ion: 62 Resp: 14726

Ion Ratio Lower Upper

62 100

64 32.3 25.8 38.6





#32

1,1,1-Trichloroethane

Concen: 0.08 ppbv m

RT: 6.70 min Scan# 1745

Delta R.T. -0.01 min

Lab File: VL032232.D

Acq: 12 Jul 2018 20:48

Instrument :

MSVOA_L

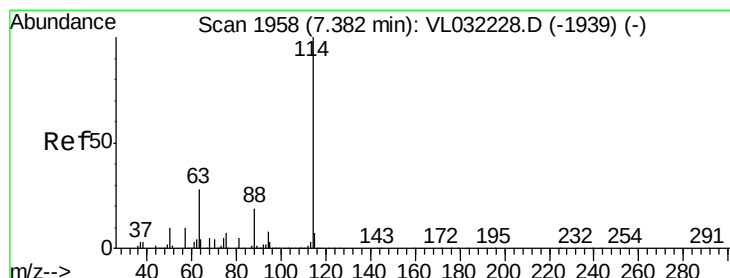
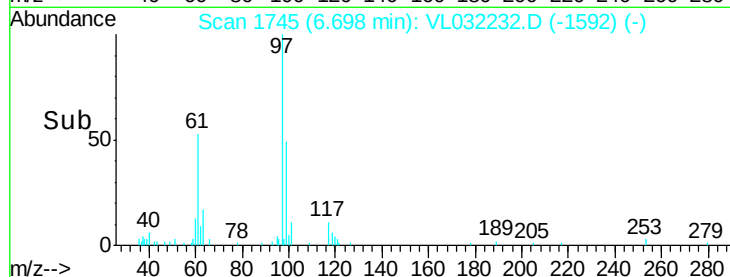
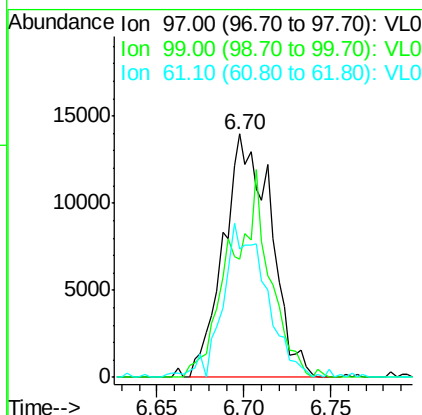
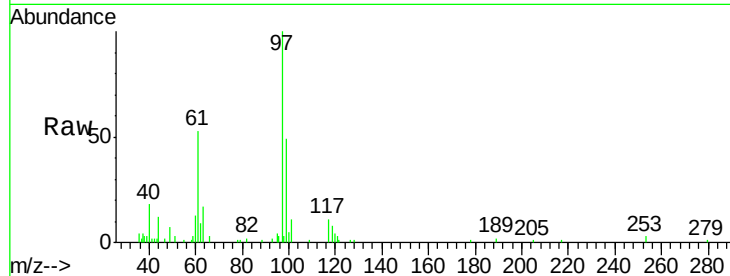
ClientSampleId :

VSTDIC0.1

Tot Ion:	97	Resp:	26395
Ion	Ratio	Lower	Upper
97	100		
99	70.9	51.2	76.8
61	0.0	41.3	61.9#

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#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

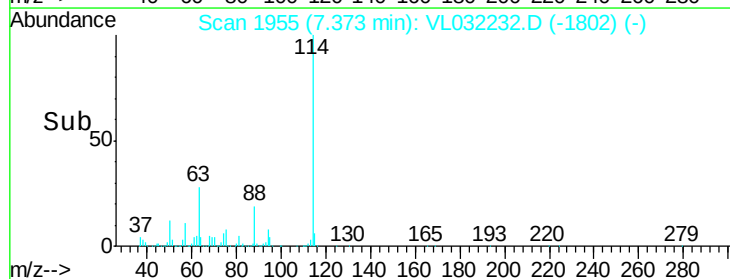
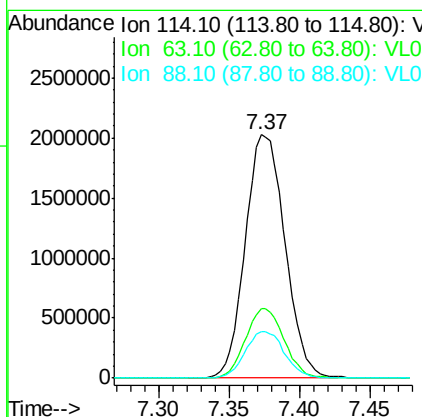
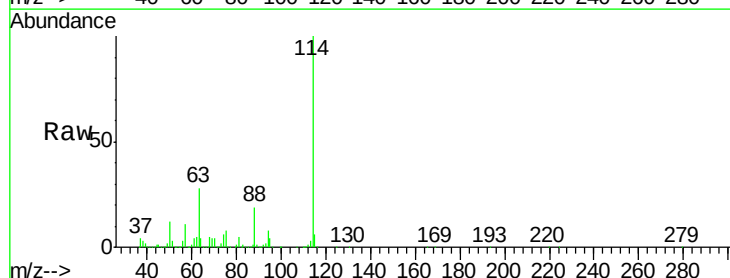
RT: 7.37 min Scan# 1955

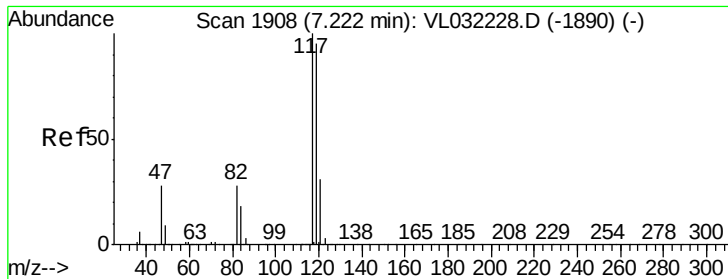
Delta R.T. -0.01 min

Lab File: VL032232.D

Acq: 12 Jul 2018 20:48

Tgt Ion:	114	Resp:	3992770
Ion	Ratio	Lower	Upper
114	100		
63	28.0	22.5	33.7
88	19.2	15.4	23.0





#35

Carbon Tetrachloride

Concen: 0.09 ppbv m

RT: 7.22 min Scan# 1907

Delta R.T. -0.00 min

Lab File: VL032232.D

Acq: 12 Jul 2018 20:48

Instrument :

MSVOA_L

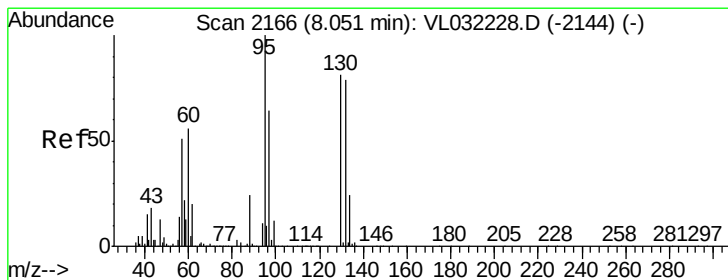
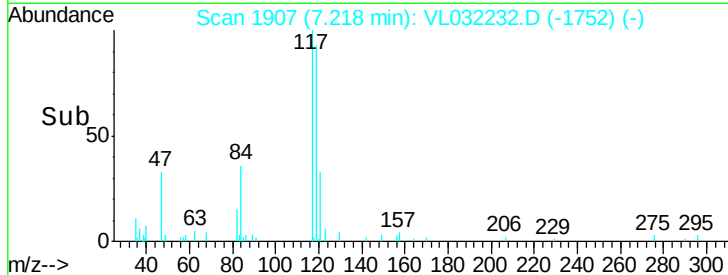
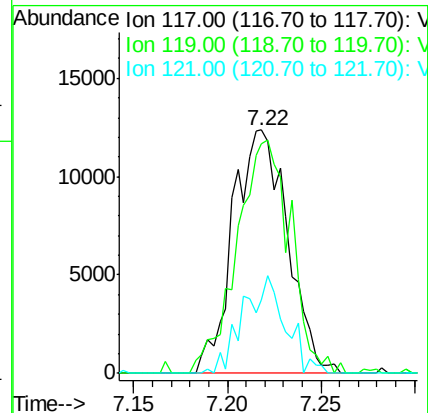
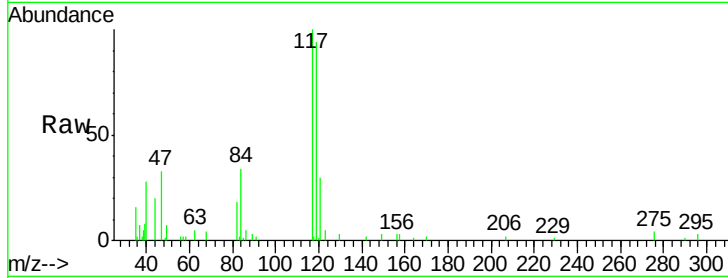
ClientSampleId :

VSTDIC0.1

Tot Ion:	117	Resp:	25122
Ion Ratio	Lower	Upper	
117	100		
119	94.2	75.7	113.5
121	30.1	24.6	37.0

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#38

Trichloroethene

Concen: 0.09 ppbv m

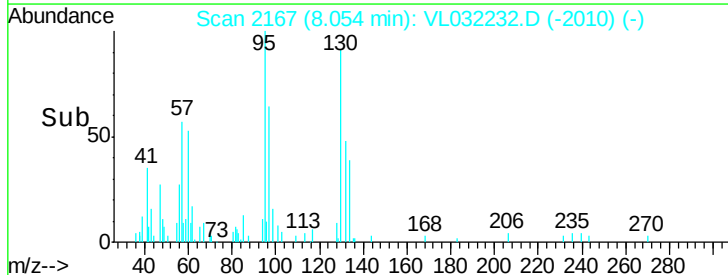
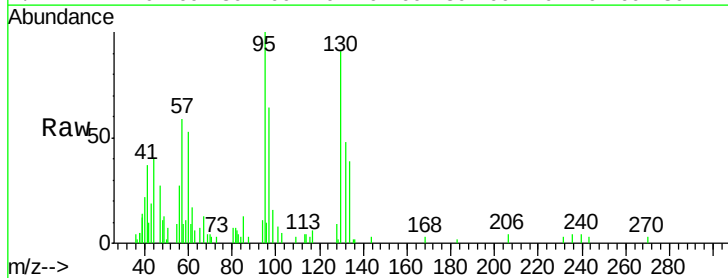
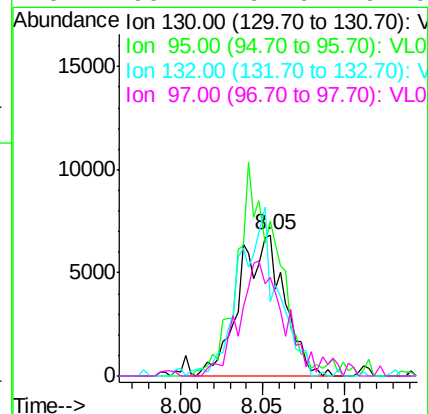
RT: 8.05 min Scan# 2167

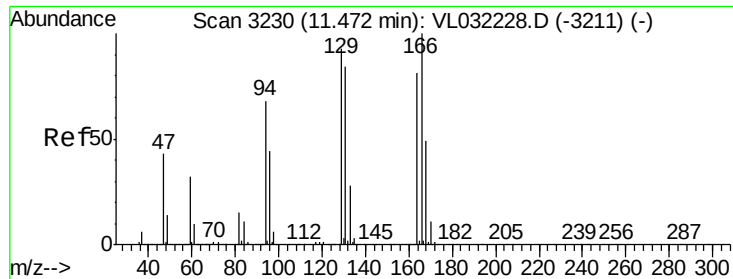
Delta R.T. 0.00 min

Lab File: VL032232.D

Acq: 12 Jul 2018 20:48

Tgt Ion:	130	Resp:	13123
Ion Ratio	Lower	Upper	
130	100		
95	109.7	98.3	147.5
132	53.0	78.1	117.1#
97	69.7	62.6	94.0





#52

Tetrachloroethene

Concen: 0.10 ppbv m

RT: 11.46 min Scan# 3226

Delta R.T. -0.01 min

Lab File: VL032232.D

Acq: 12 Jul 2018 20:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tot Ion:164 Resp: 14437

Ion Ratio Lower Upper

164 100

166 78.9 99.3 148.9#

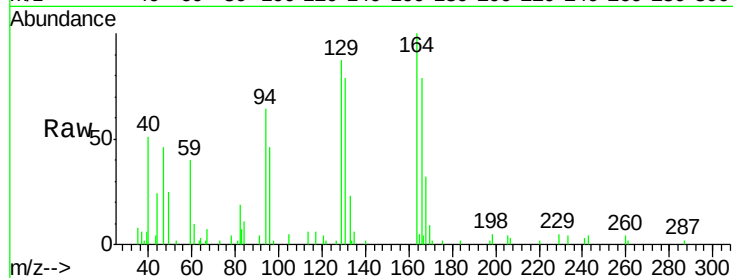
129 87.4 92.0 138.0#

131 79.1 83.8 125.8#

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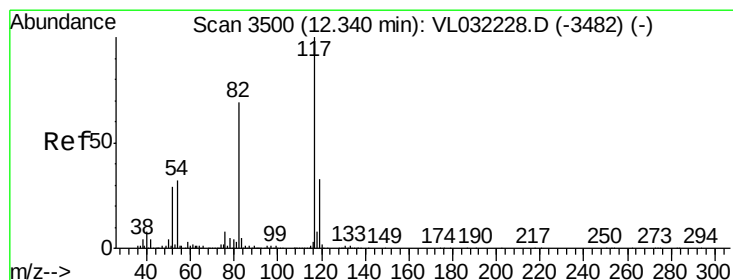
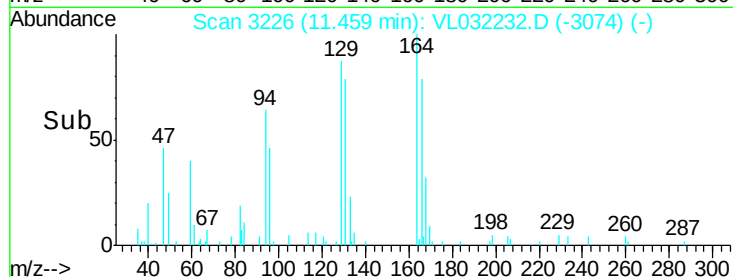
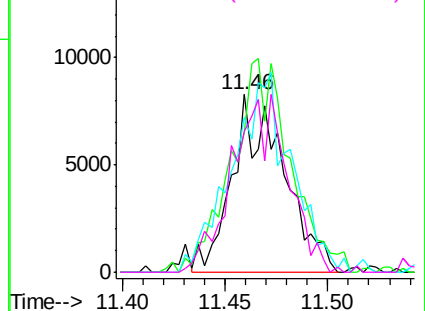


Abundance Ion 163.90 (163.60 to 164.60): V

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: 12.33 min Scan# 3498

Delta R.T. -0.01 min

Lab File: VL032232.D

Acq: 12 Jul 2018 20:48

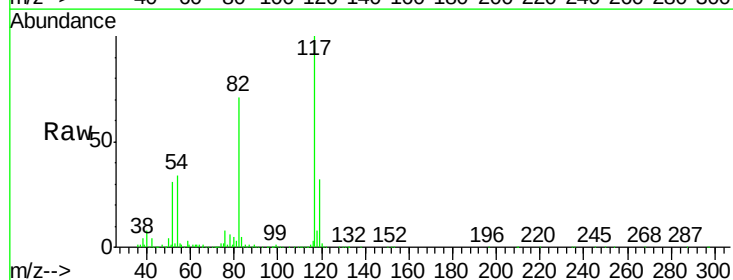
Tgt Ion:117 Resp: 4840720

Ion Ratio Lower Upper

117 100

82 70.8 53.2 79.8

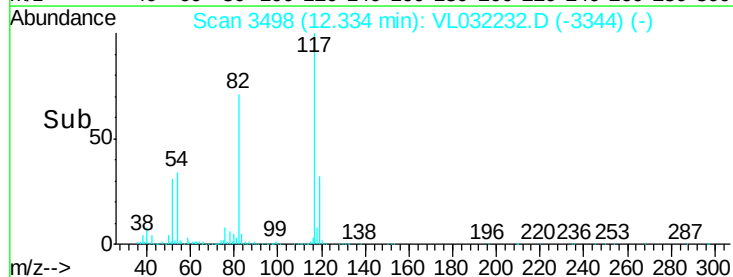
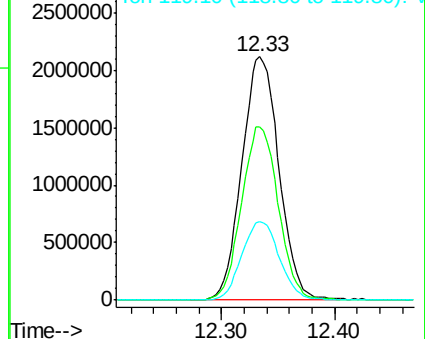
119 32.9 43.9 65.9#

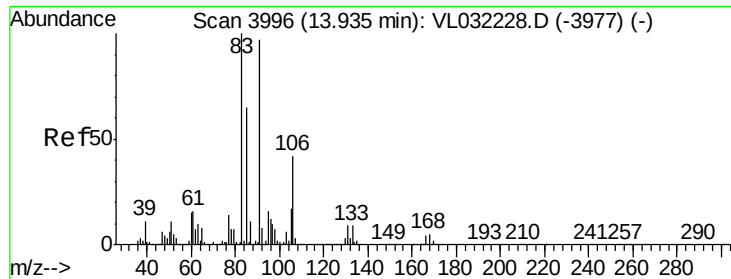


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V





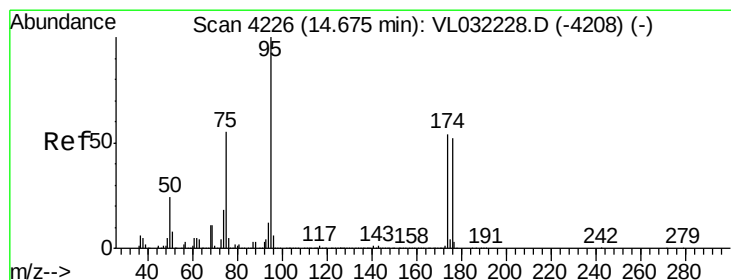
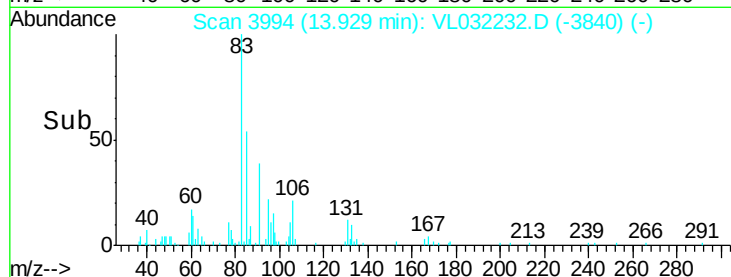
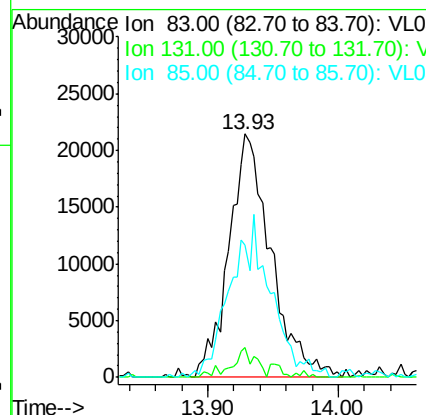
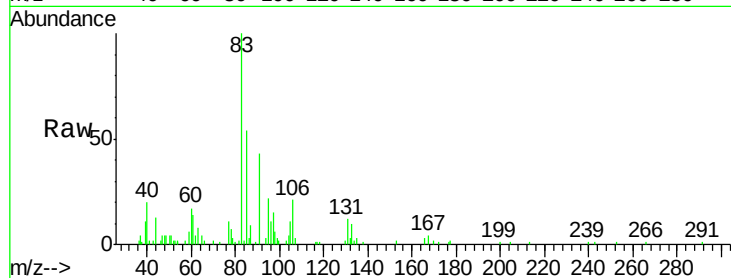
#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.10 ppbv m
 RT: 13.93 min Scan# 3994
 Delta R.T. -0.01 min
 Lab File: VL032232.D
 Acq: 12 Jul 2018 20:48

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

Tot Ion	83	Resp	47815
Ion Ratio	100	Lower	Upper
83	100		
131	8.7	4.3	12.8
85	64.5	32.5	97.5

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#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.41 ppbv
 RT: 14.67 min Scan# 4225
 Delta R.T. -0.00 min
 Lab File: VL032232.D
 Acq: 12 Jul 2018 20:48

Tgt Ion	95	Resp	3868111
Ion Ratio	100	Lower	Upper
95	100		
174	54.6	44.6	67.0
175	4.0	3.3	4.9

