

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL053118\
 Data File : VL032020.D
 Acq On : 31 May 2018 18:39
 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
 6/4/2018 10:54:57 AM

Quant Time: Jun 01 02:24:29 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL053118AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 01 02:24:29 2018
 QLast Update : Fri Jun 01 01:58:27 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.86	49	1309349	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.40	114	2575982	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.37	117	2471913	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.70	95	1930793	10.06	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.37	62	7745m	0.11	ppbv	
32) 1,1,1-Trichloroethane	6.74	97	20179m	0.09	ppbv	
35) Carbon Tetrachloride	7.25	117	22570m	0.11	ppbv	
38) Trichloroethene	8.08	130	7182m	0.08	ppbv	
52) Tetrachloroethene	11.50	164	7546m	0.08	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.96	83	22272m	0.10	ppbv	

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

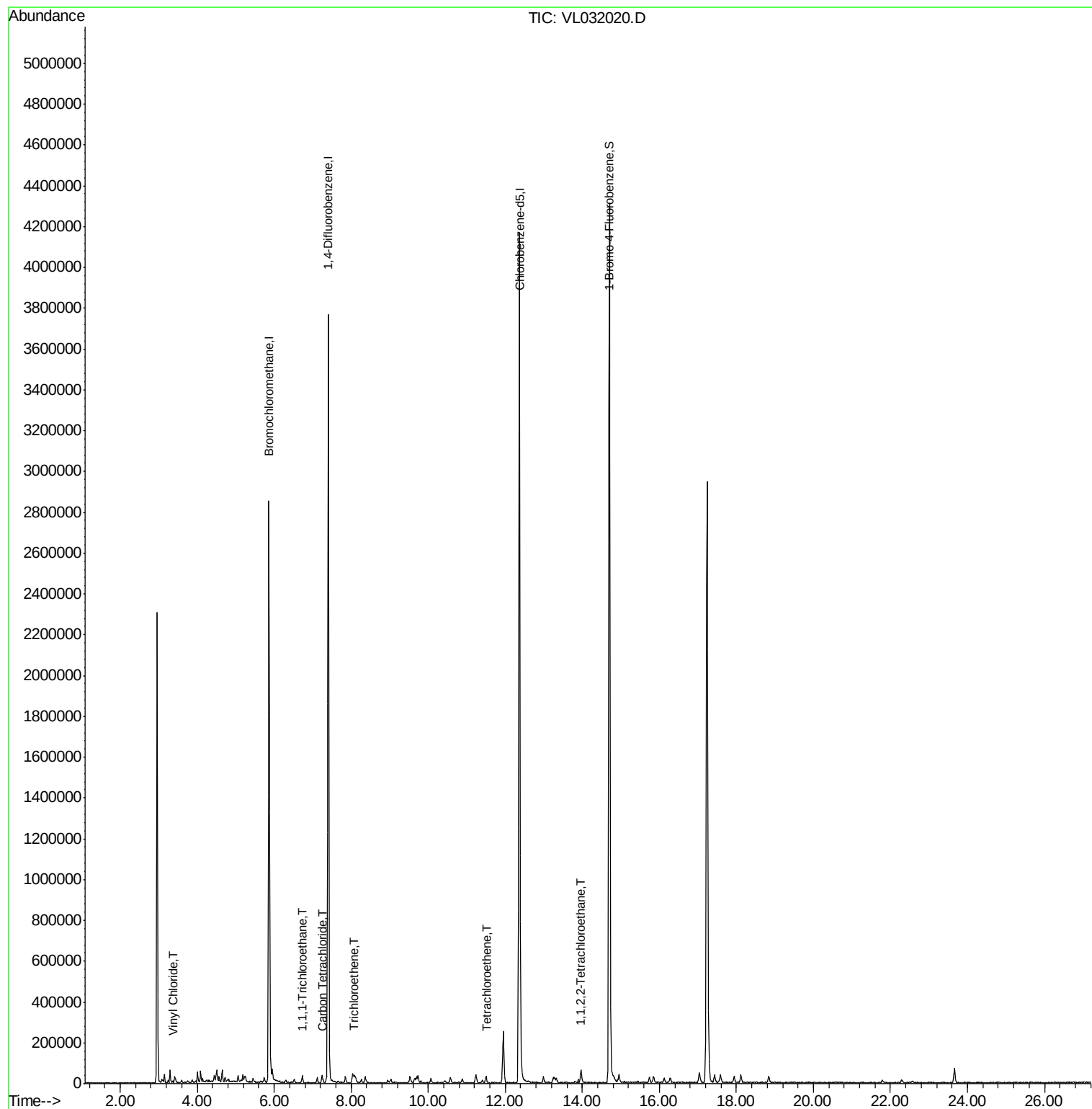
Data Path : W:\HPCHEM1\MSVOA L\DATA\VL053118\
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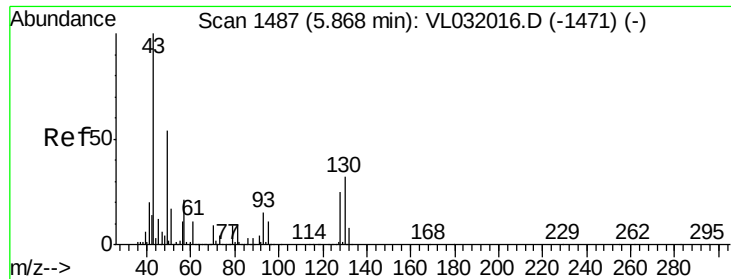
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

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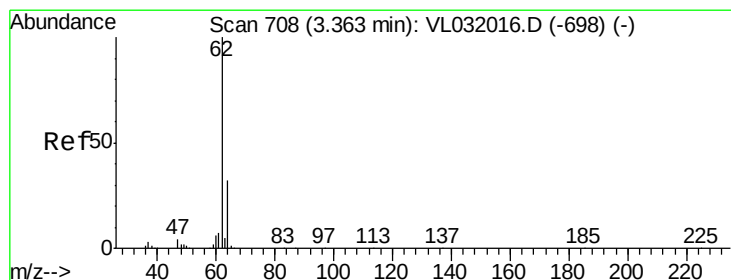
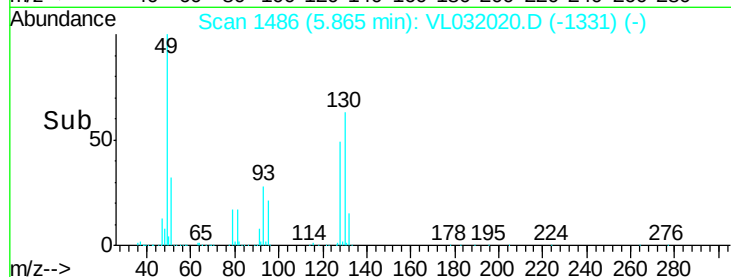
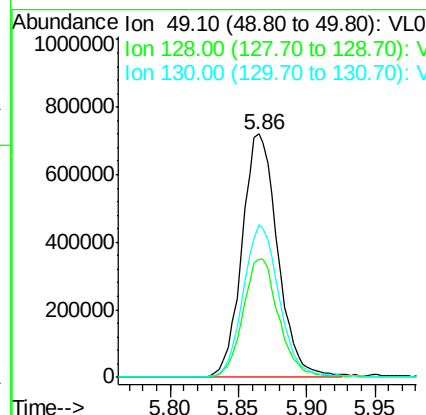
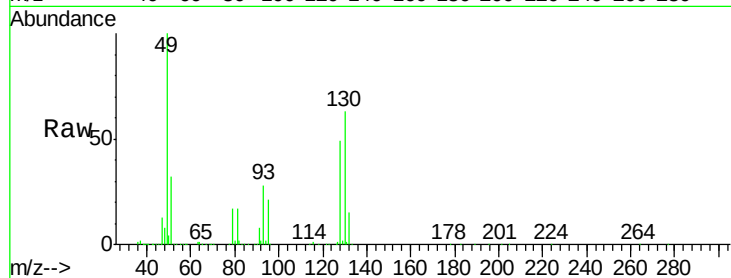
#1
 Bromochloromethane
 Concen: 10.00 ppbv
 RT: 5.86 min Scan# 1486
 Delta R.T. -0.00 min
 Lab File: VL032020.D
 Acq: 31 May 2018 18:39

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

Tot Ion	Ratio	Lower	Upper
49	100		
128	49.4	24.1	72.3
130	63.5	30.9	92.8

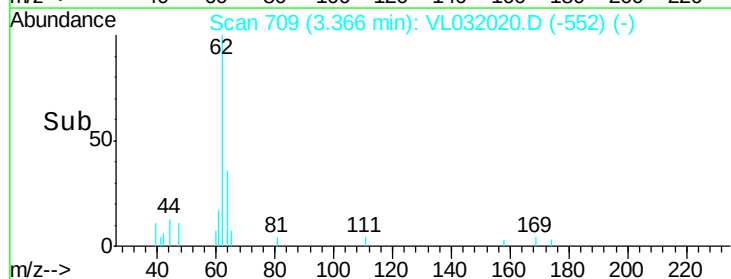
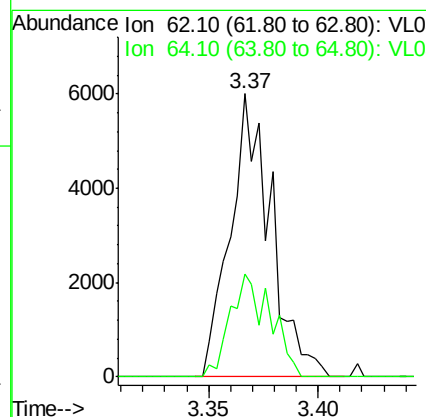
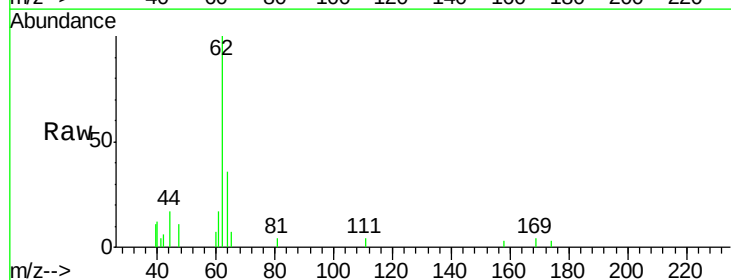
Manual Integrations
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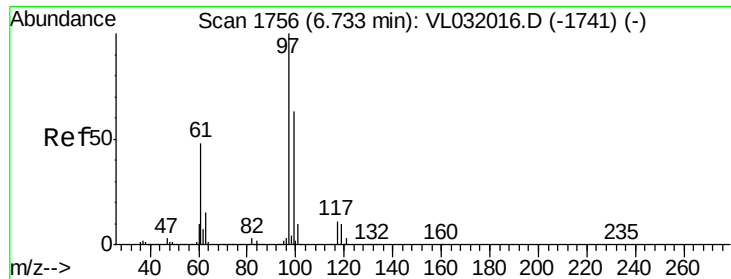
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#5
 Vinyl Chloride
 Concen: 0.11 ppbv m
 RT: 3.37 min Scan# 709
 Delta R.T. 0.00 min
 Lab File: VL032020.D
 Acq: 31 May 2018 18:39

Tgt Ion	Ratio	Lower	Upper
62	100		
64	36.2	25.2	37.8





#32

1,1,1-Trichloroethane

Concen: 0.09 ppbv m

RT: 6.74 min Scan# 1757

Delta R.T. 0.00 min

Lab File: VL032020.D

Acq: 31 May 2018 18:39

Instrument :

MSVOA_L

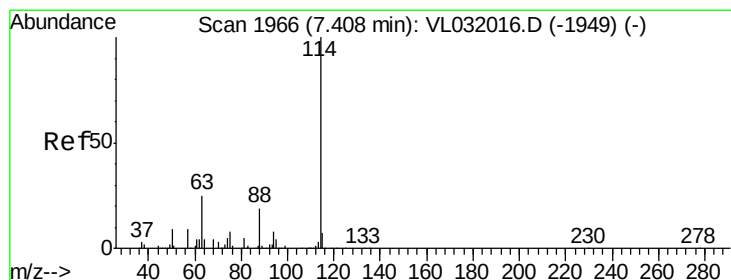
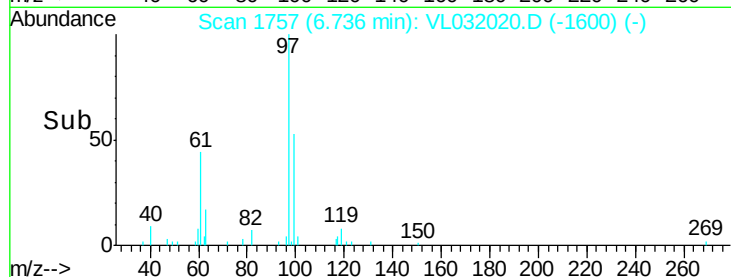
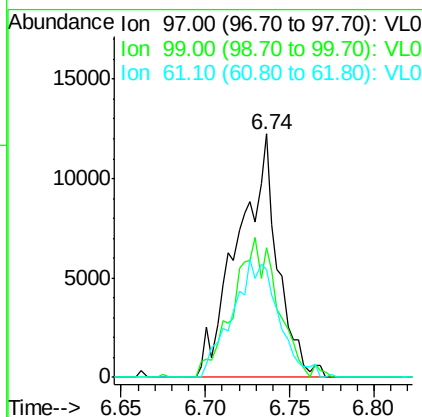
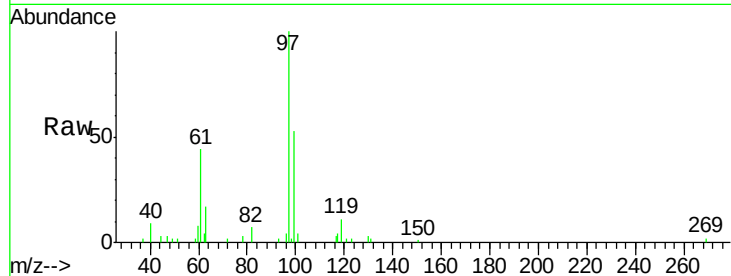
ClientSampleId :

VSTDIC0.1

Tot Ion:	97	Resp:	20179
Ion	Ratio	Lower	Upper
97	100		
99	64.2	51.5	77.3
61	55.6	39.4	59.2

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#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

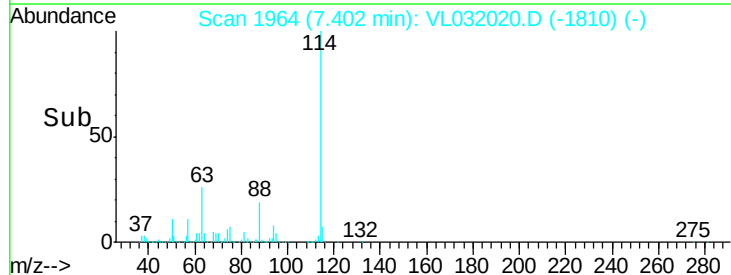
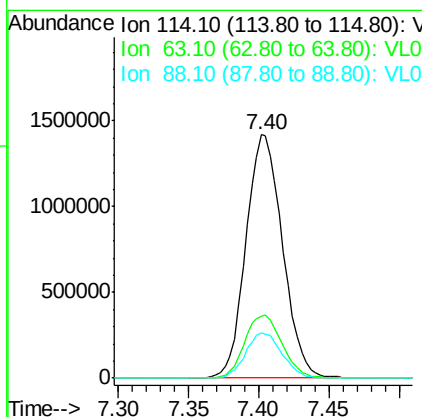
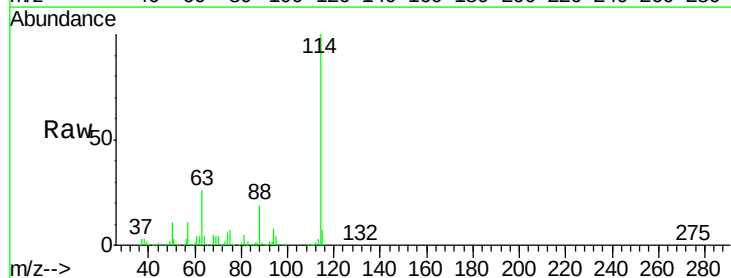
RT: 7.40 min Scan# 1964

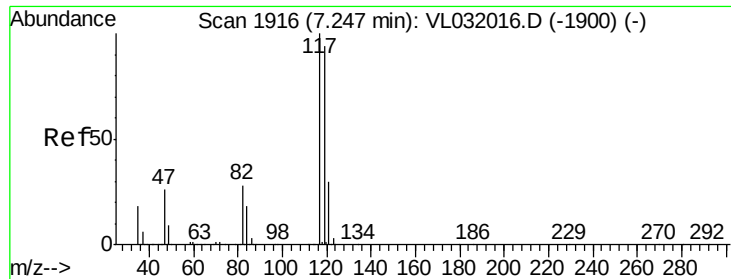
Delta R.T. -0.01 min

Lab File: VL032020.D

Acq: 31 May 2018 18:39

Tgt Ion:	114	Resp:	2575982
Ion	Ratio	Lower	Upper
114	100		
63	26.8	21.1	31.7
88	18.6	14.8	22.2





#35

Carbon Tetrachloride

Concen: 0.11 ppbv m

RT: 7.25 min Scan# 1916

Delta R.T. 0.00 min

Lab File: VL032020.D

Acq: 31 May 2018 18:39

Instrument :

MSVOA_L

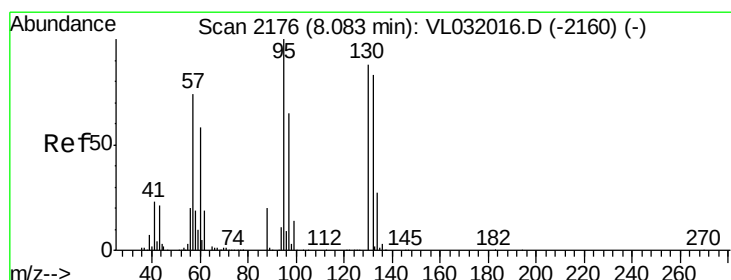
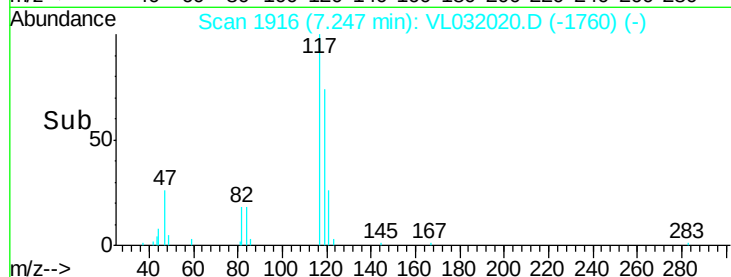
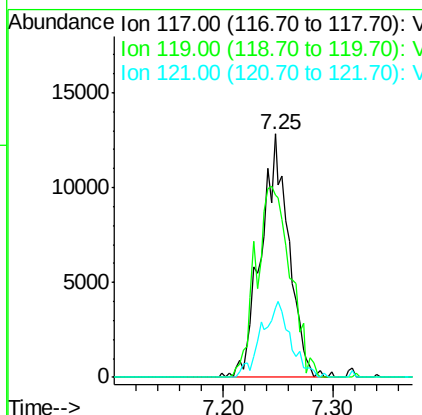
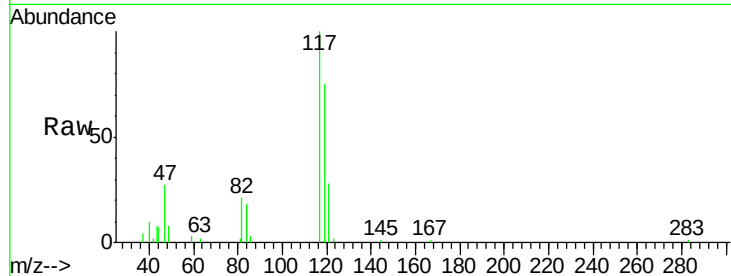
ClientSampleId :

VSTDIC0.1

Tot Ion:	117	Resp:	22570
Ion Ratio	Lower	Upper	
117	100		
119	74.7	75.3	112.9#
121	28.4	24.1	36.1

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#38

Trichloroethene

Concen: 0.08 ppbv m

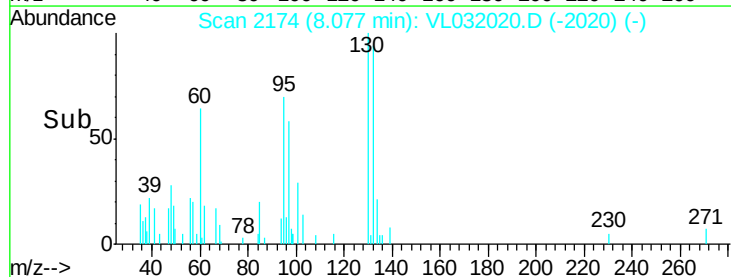
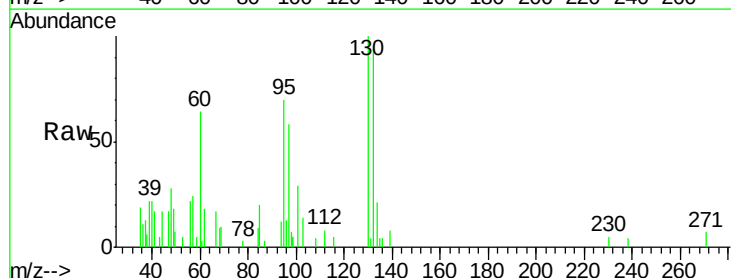
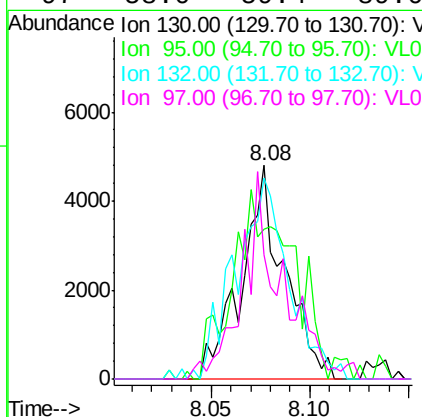
RT: 8.08 min Scan# 2174

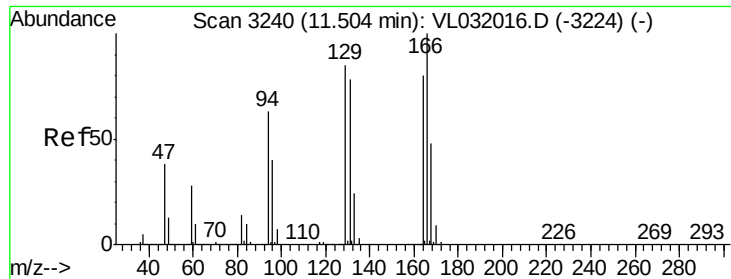
Delta R.T. -0.01 min

Lab File: VL032020.D

Acq: 31 May 2018 18:39

Tgt Ion:	130	Resp:	7182
Ion Ratio	Lower	Upper	
130	100		
95	70.1	90.7	136.1#
132	94.0	75.6	113.4
97	58.0	59.4	89.0#





#52

Tetrachloroethene

Concen: 0.08 ppbv m

RT: 11.50 min Scan# 3238

Delta R.T. -0.01 min

Lab File: VL032020.D

Acq: 31 May 2018 18:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tot Ion:164 Resp: 7546

Ion Ratio Lower Upper

164 100

166 152.3 100.2 150.2#

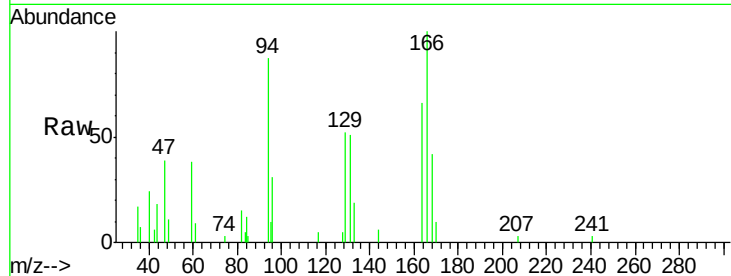
129 79.7 85.4 128.0#

131 77.1 78.0 117.0#

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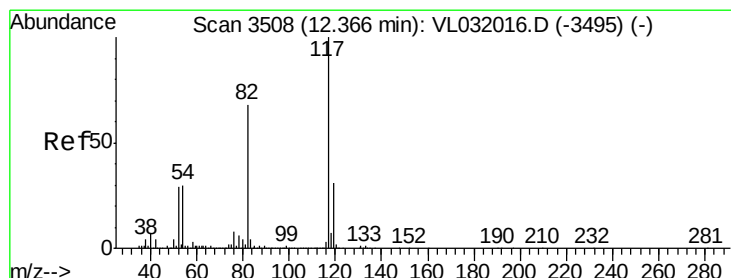
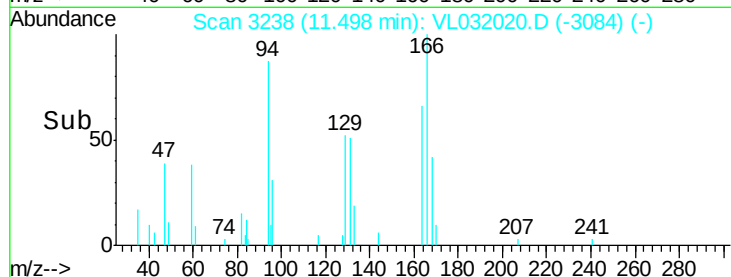
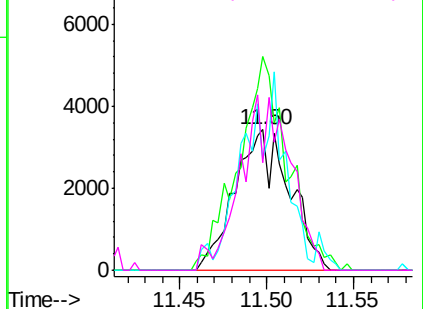


Abundance Ion 163.90 (163.60 to 164.60): V

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: 12.37 min Scan# 3508

Delta R.T. 0.00 min

Lab File: VL032020.D

Acq: 31 May 2018 18:39

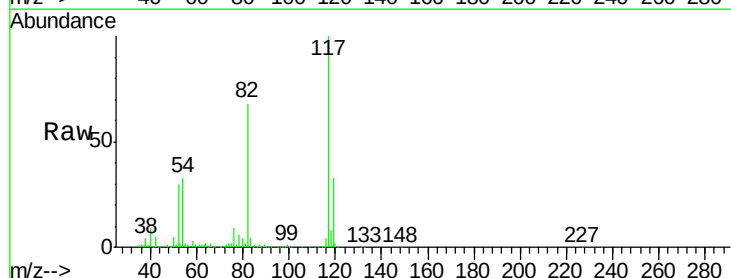
Tgt Ion:117 Resp: 2471913

Ion Ratio Lower Upper

117 100

82 68.9 52.7 79.1

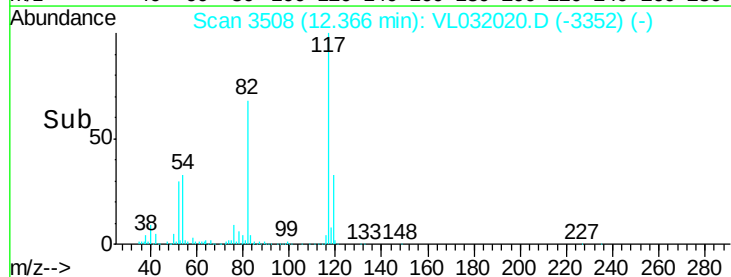
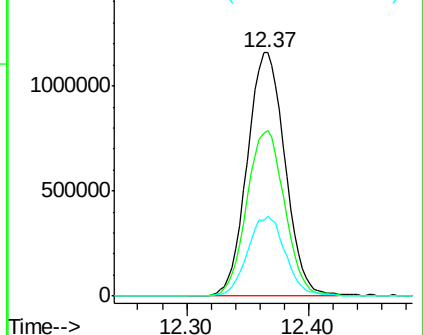
119 32.9 25.5 38.3

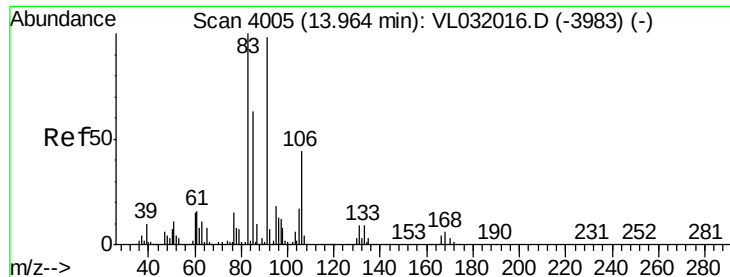


Abundance Ion 117.10 (116.80 to 117.80): V

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: 13.96 min Scan# 4004

Delta R.T. -0.00 min

Lab File: VL032020.D

Acq: 31 May 2018 18:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tot Ion: 83 Resp: 22272

Ion Ratio Lower Upper

83 100

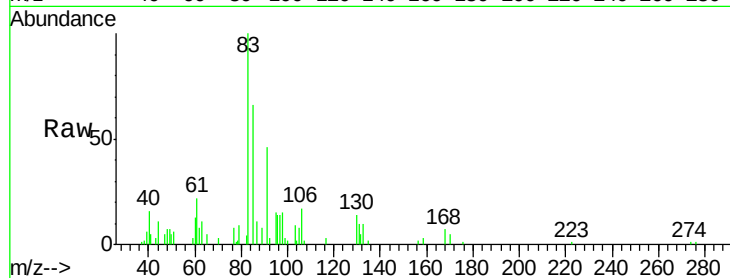
131 0.0 4.7 14.0#

85 66.3 32.2 96.6

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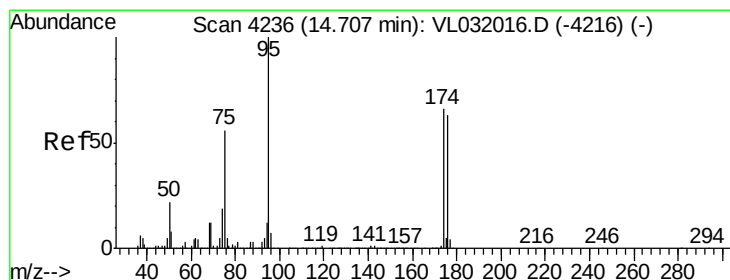
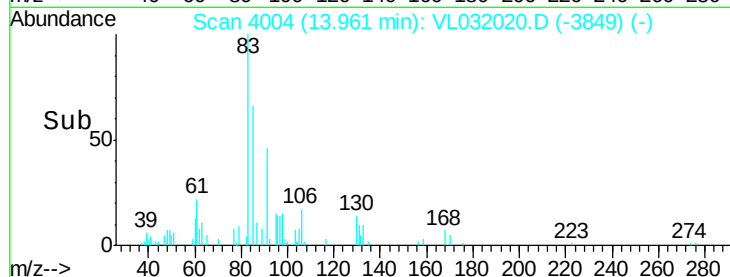
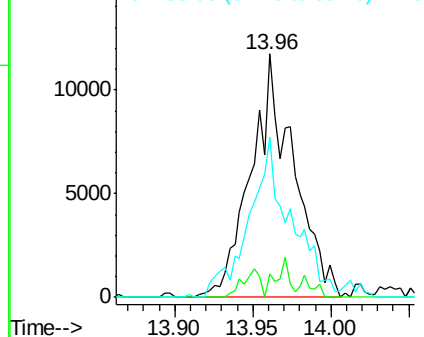
6/4/2018 10:54:57 AM



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VL0



#68

1-Bromo-4-Fluorobenzene

Concen: 10.06 ppbv

RT: 14.70 min Scan# 4234

Delta R.T. -0.01 min

Lab File: VL032020.D

Acq: 31 May 2018 18:39

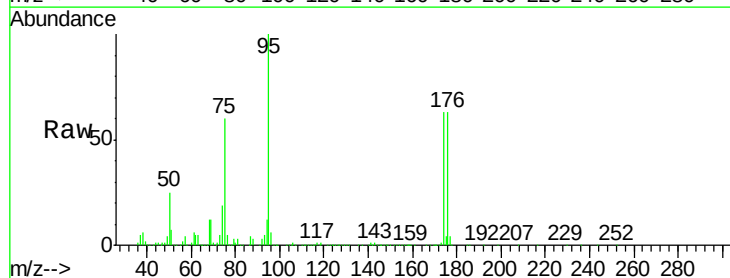
Tgt Ion: 95 Resp: 1930793

Ion Ratio Lower Upper

95 100

174 65.5 53.2 79.8

175 4.6 3.7 5.5



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

