

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030920\
 Data File : VL034845.D
 Acq On : 9 Mar 2020 14:51
 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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 3/11/2020 3:26:04 PM

Quant Time: Mar 09 15:51:44 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 09 15:51:44 2020
 QLast Update : Mon Mar 09 15:34:13 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	926325	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2124523	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2066848	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	1649494	9.57	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.23	62	5921m	0.099	ppbv	
32) 1,1,1-Trichloroethane	6.50	97	14597m	0.105	ppbv	
35) Carbon Tetrachloride	7.02	117	12805m	0.080	ppbv	
38) Trichloroethene	7.84	130	8668m	0.123	ppbv	
52) Tetrachloroethene	11.24	164	7970m	0.119	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.70	83	15803m	0.090	ppbv	

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

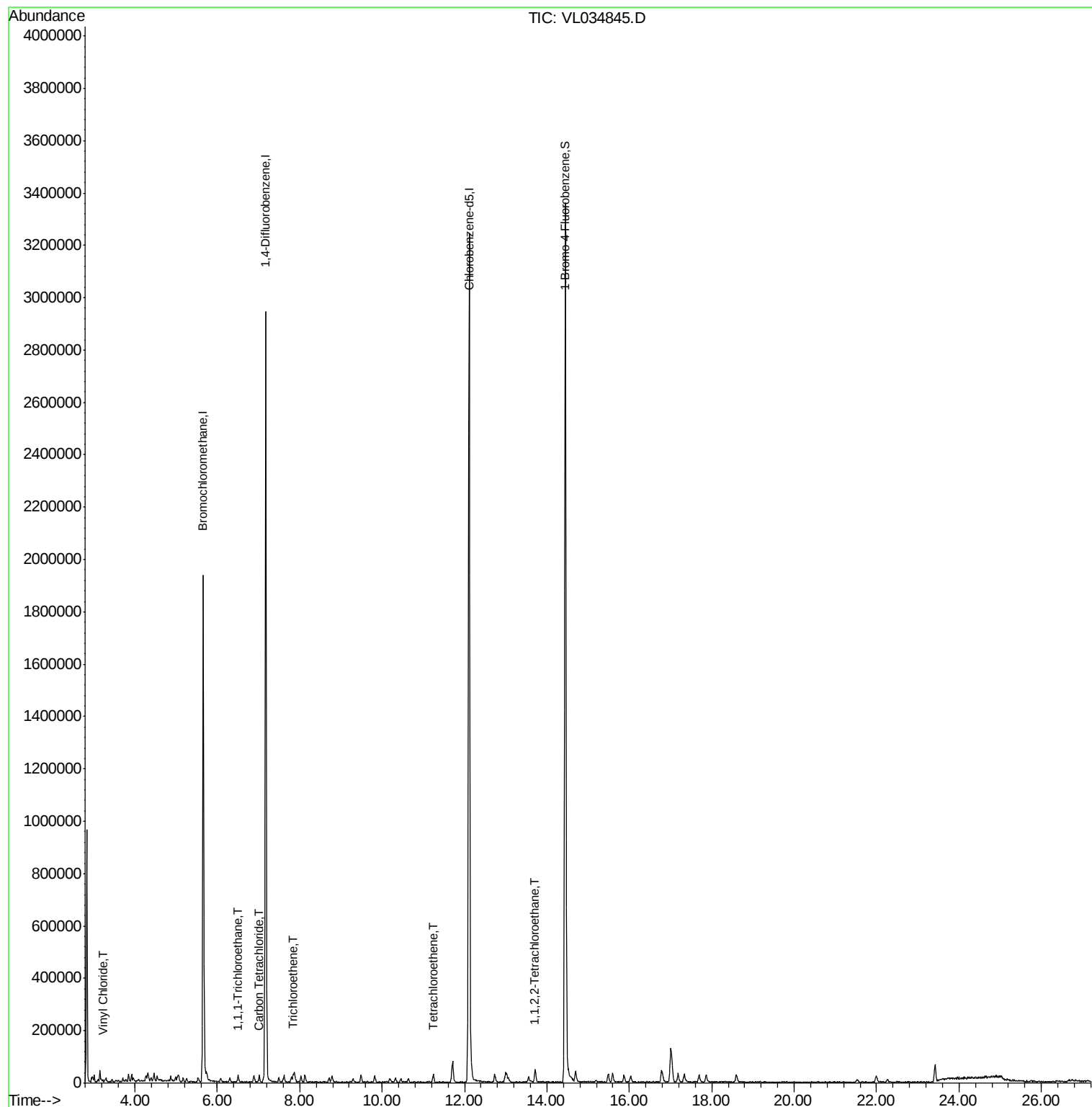
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL030920\
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Operator : SY/AP
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Misc : 400ml/MSVOA L
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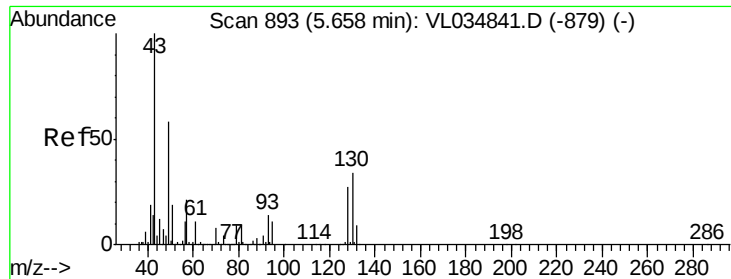
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

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Quant Time: Mar 09 15:51:44 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL030920AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar
QLast Update : Mon Mar 09 15:34:13 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 892

Delta R.T. -0.00 min

Lab File: VL034845.D

Acq: 9 Mar 2020 14:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tot Ion: 49 Resp: 926325

Ion Ratio Lower Upper

49 100

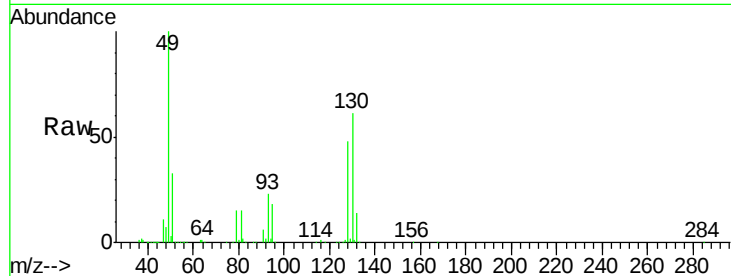
128 47.2 23.4 70.3

130 61.6 30.0 90.0

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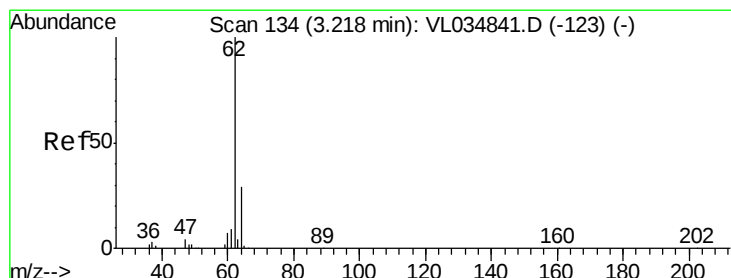
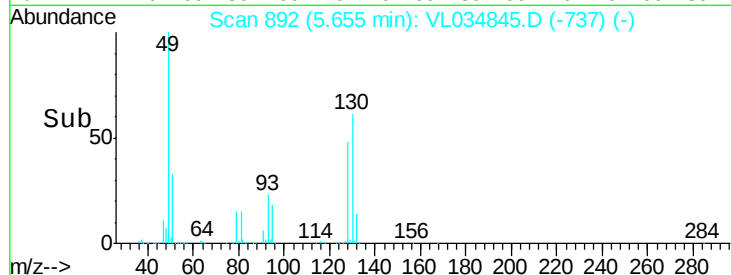
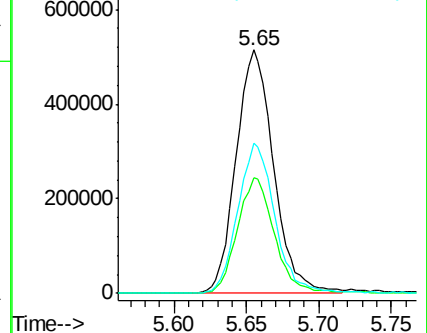
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#5

Vinyl Chloride

Concen: 0.099 ppbv m

RT: 3.23 min Scan# 137

Delta R.T. 0.01 min

Lab File: VL034845.D

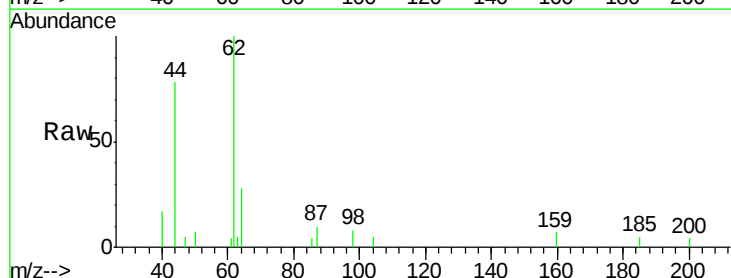
Acq: 9 Mar 2020 14:51

Tgt Ion: 62 Resp: 5921

Ion Ratio Lower Upper

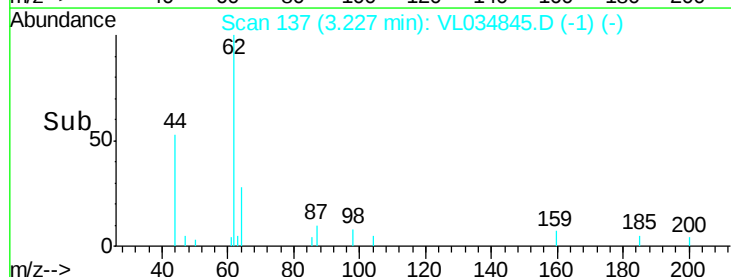
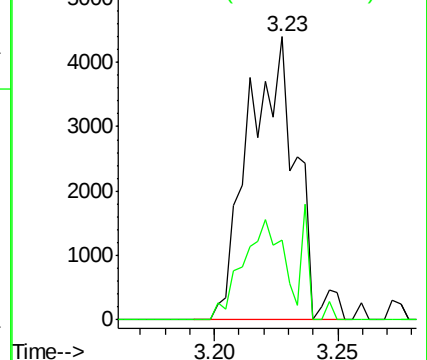
62 100

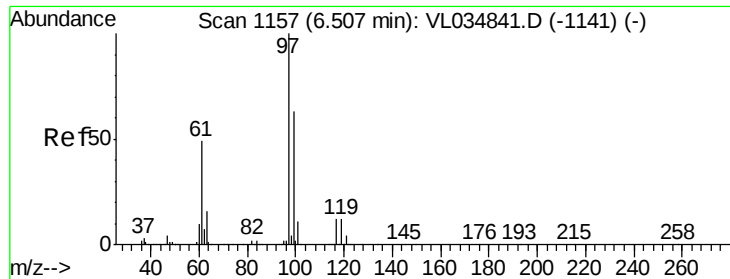
64 28.0 23.0 34.4



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: 0.105 ppbv m

RT: 6.50 min Scan# 1154

Delta R.T. -0.01 min

Lab File: VL034845.D

Acq: 9 Mar 2020 14:51

Instrument :

MSVOA_L

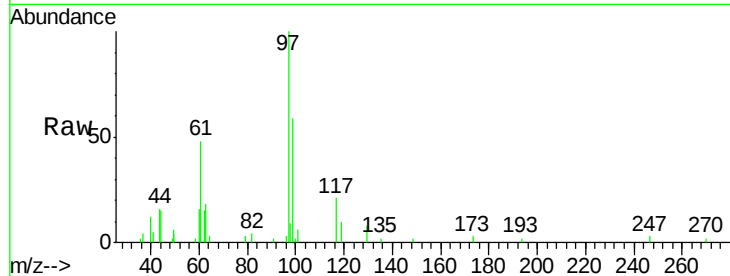
ClientSampleId :

VSTDIC0.1

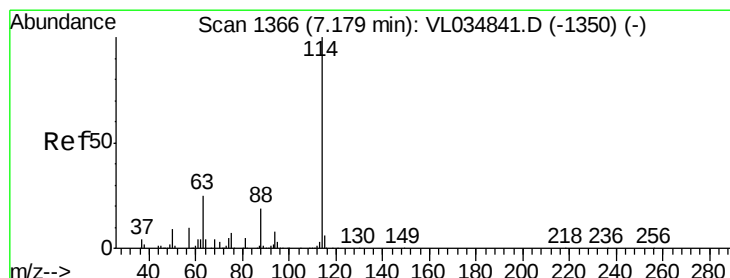
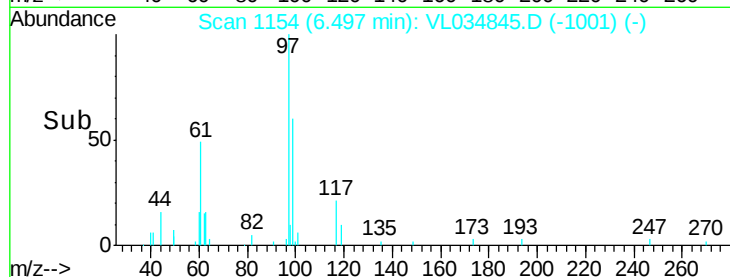
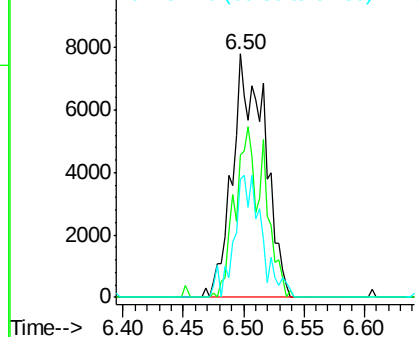
Tot Ion:	97	Resp:	14597
Ion Ratio	Lower	Upper	
97	100		
99	62.6	51.1	76.7
61	43.3	39.7	59.5

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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

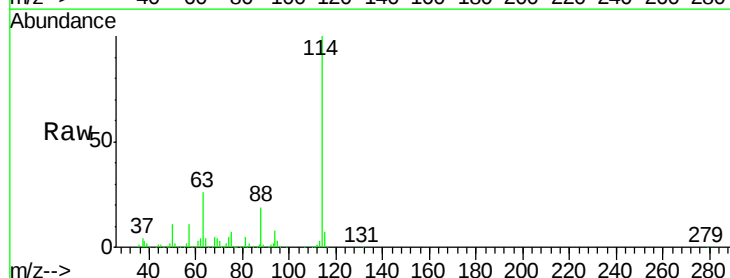
RT: 7.18 min Scan# 1365

Delta R.T. -0.00 min

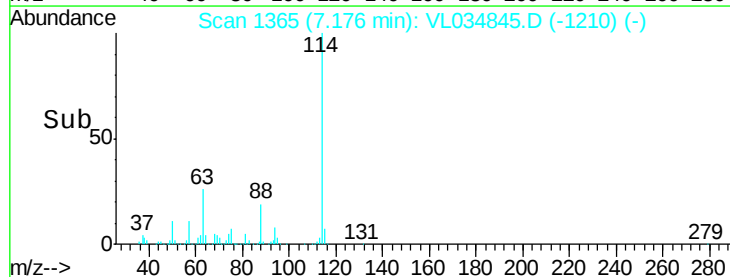
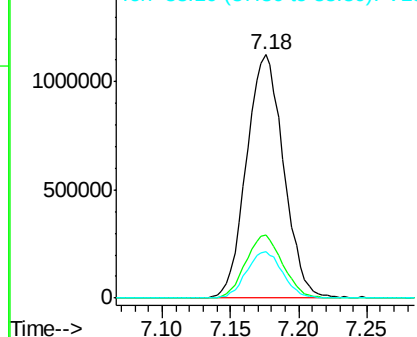
Lab File: VL034845.D

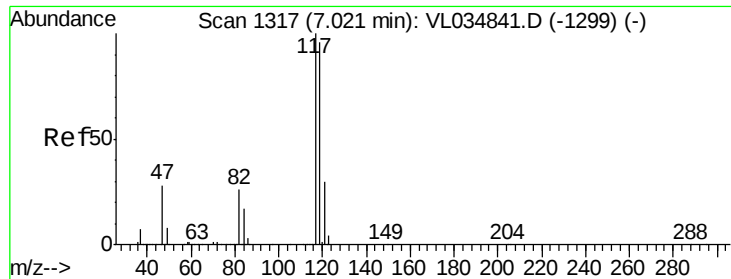
Acq: 9 Mar 2020 14:51

Tgt Ion:	114	Resp:	2124523
Ion Ratio	Lower	Upper	
114	100		
63	26.1	20.6	31.0
88	18.6	15.0	22.6



Abundance Ion 114.10 (113.80 to 114.80): V
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0





#35

Carbon Tetrachloride

Concen: 0.080 ppbv m

RT: 7.02 min Scan# 1316

Delta R.T. -0.00 min

Lab File: VL034845.D

Acq: 9 Mar 2020 14:51

Instrument :

MSVOA_L

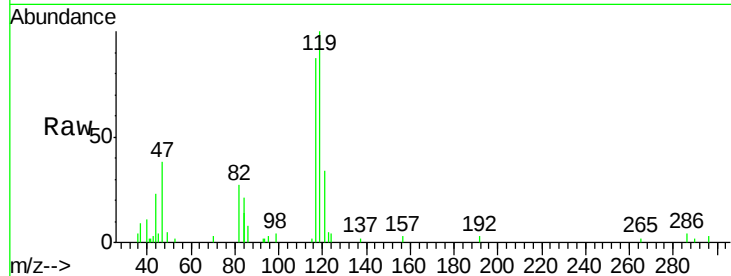
ClientSampleId :

VSTDIC0.1

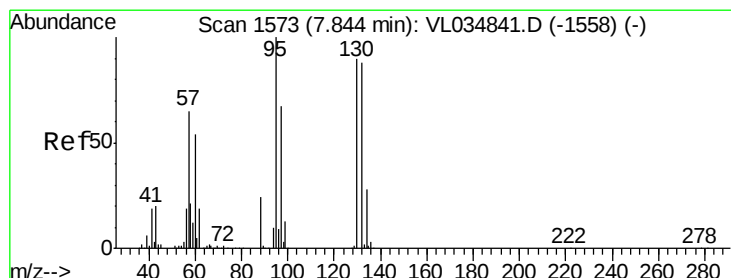
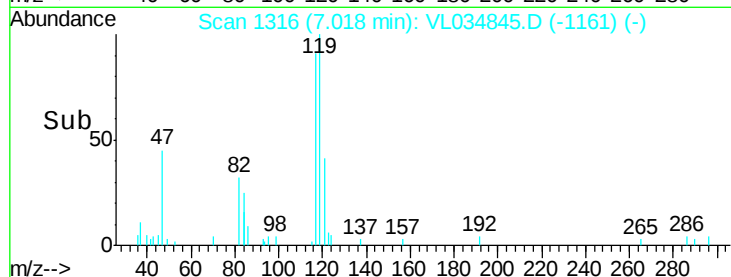
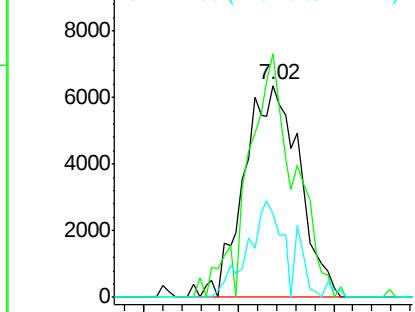
Tot Ion:	117	Resp:	12805
Ion Ratio	Lower	Upper	
117	100		
119	114.9	77.0	115.4
121	39.5	24.0	36.0#

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Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V



#38

Trichloroethene

Concen: 0.123 ppbv m

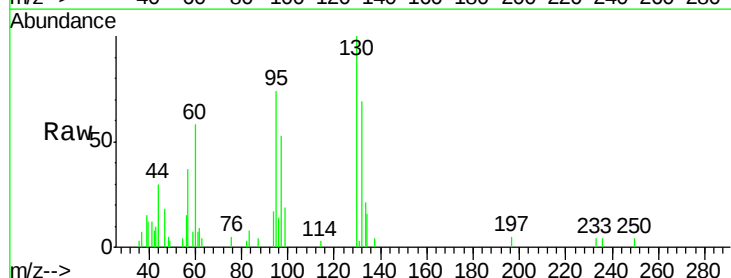
RT: 7.84 min Scan# 1572

Delta R.T. -0.00 min

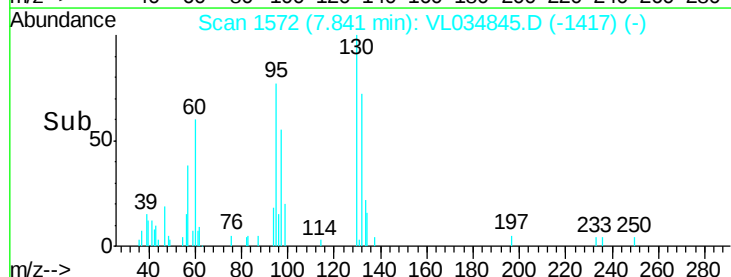
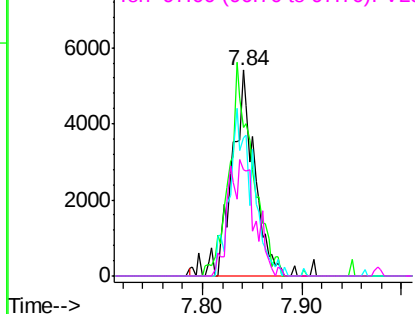
Lab File: VL034845.D

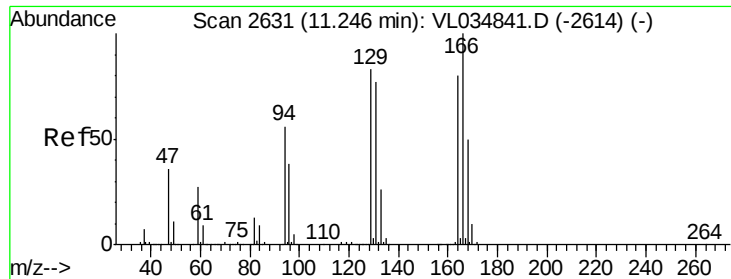
Acq: 9 Mar 2020 14:51

Tgt Ion:	130	Resp:	8668
Ion Ratio	Lower	Upper	
130	100		
95	74.0	88.5	132.7#
132	69.1	78.0	117.0#
97	53.4	59.3	88.9#



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: 0.119 ppbv m

RT: 11.24 min Scan# 2630

Delta R.T. -0.00 min

Lab File: VL034845.D

Acq: 9 Mar 2020 14:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tot Ion:164 Resp: 7970

Ion Ratio Lower Upper

164 100

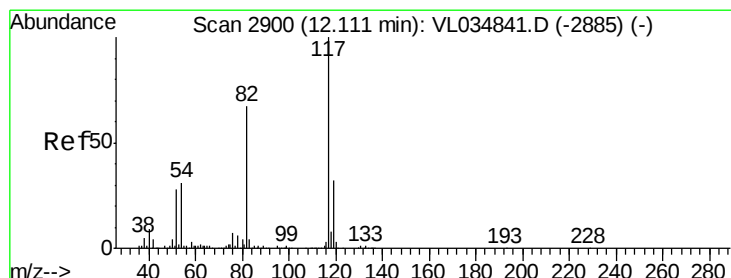
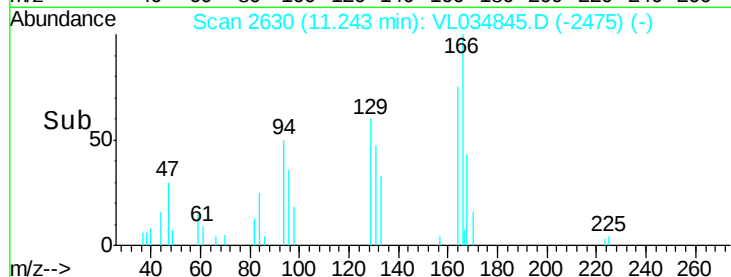
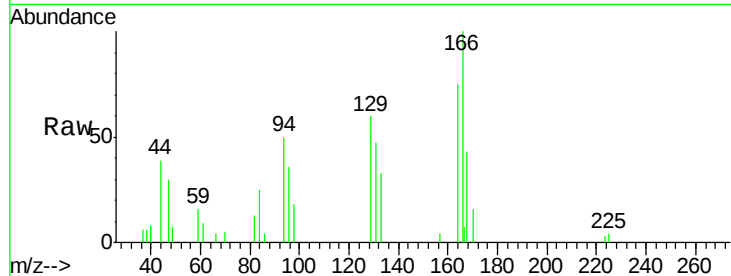
166 133.1 100.0 150.0

129 79.4 83.1 124.7#

131 62.4 77.2 115.8#

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2900

Delta R.T. 0.00 min

Lab File: VL034845.D

Acq: 9 Mar 2020 14:51

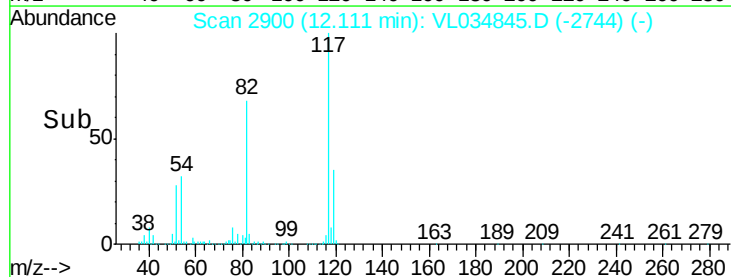
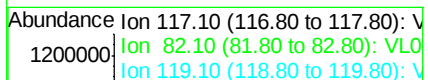
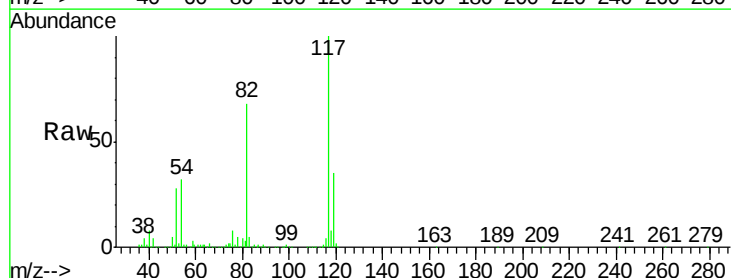
Tgt Ion:117 Resp: 2066848

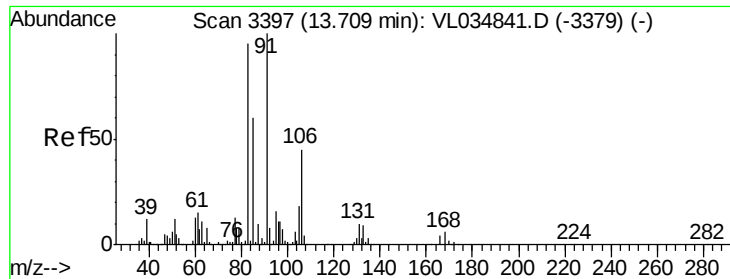
Ion Ratio Lower Upper

117 100

82 66.0 51.1 76.7

119 33.1 27.3 40.9





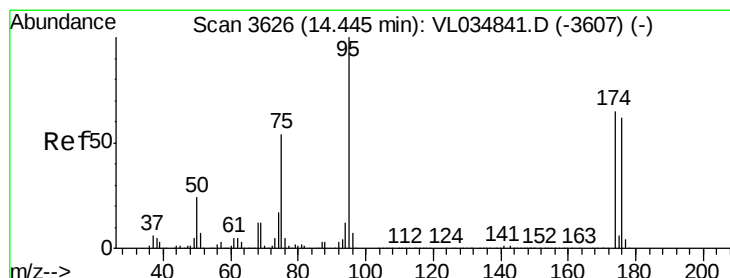
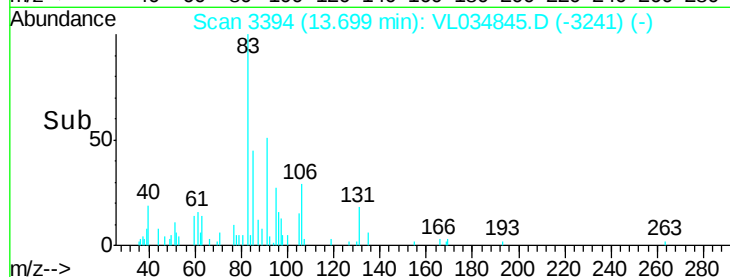
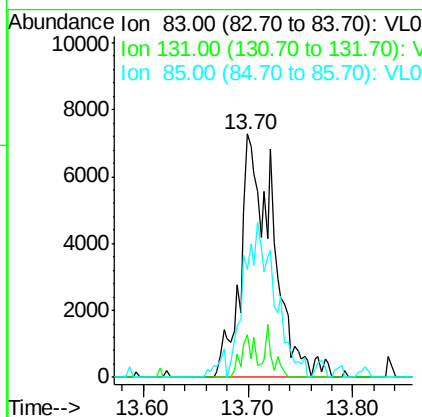
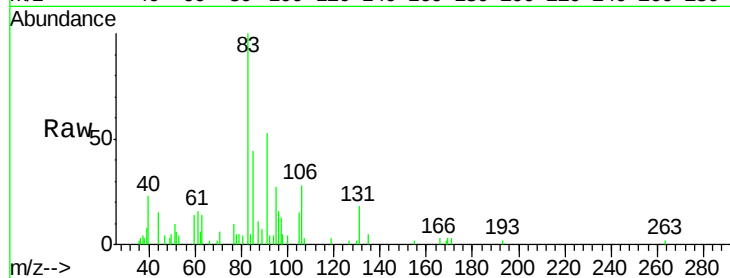
#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.090 ppbv m
 RT: 13.70 min Scan# 3394
 Delta R.T. -0.01 min
 Lab File: VL034845.D
 Acq: 9 Mar 2020 14:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

Tot Ion	Ratio	Lower	Upper
83	100		
131	5.5	5.0	14.9
85	63.0	32.4	97.2

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#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.571 ppbv
 RT: 14.45 min Scan# 3626
 Delta R.T. 0.00 min
 Lab File: VL034845.D
 Acq: 9 Mar 2020 14:51

Tgt Ion	Ratio	Lower	Upper
95	100		
174	69.4	55.2	82.8
175	5.2	4.3	6.5

