

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL070819\
 Data File : VL034013.D
 Acq On : 8 Jul 2019 16:03
 Operator : SY/AP
 Sample : K3591-15 0.03 PPB
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-MDL-AIR-03-QT3-2019

Manual Integrations
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 7/10/2019 8:50:06 AM

Quant Time: Jul 09 04:47:19 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL070219AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 09 16:17:34 2019
 QLast Update : Tue Jul 02 19:31:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.73	49	916234	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.25	114	2544758	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.19	117	2501598	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.53	95	1998327	9.37	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.27	62	3838m	0.052	ppbv	
32) 1,1,1-Trichloroethane	6.59	97	8606m	0.047	ppbv	
35) Carbon Tetrachloride	7.08	117	8846m	0.044	ppbv	
38) Trichloroethene	7.92	130	2835m	0.032	ppbv	
52) Tetrachloroethene	11.32	164	2957m	0.035	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.79	83	7953m	0.038	ppbv	

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

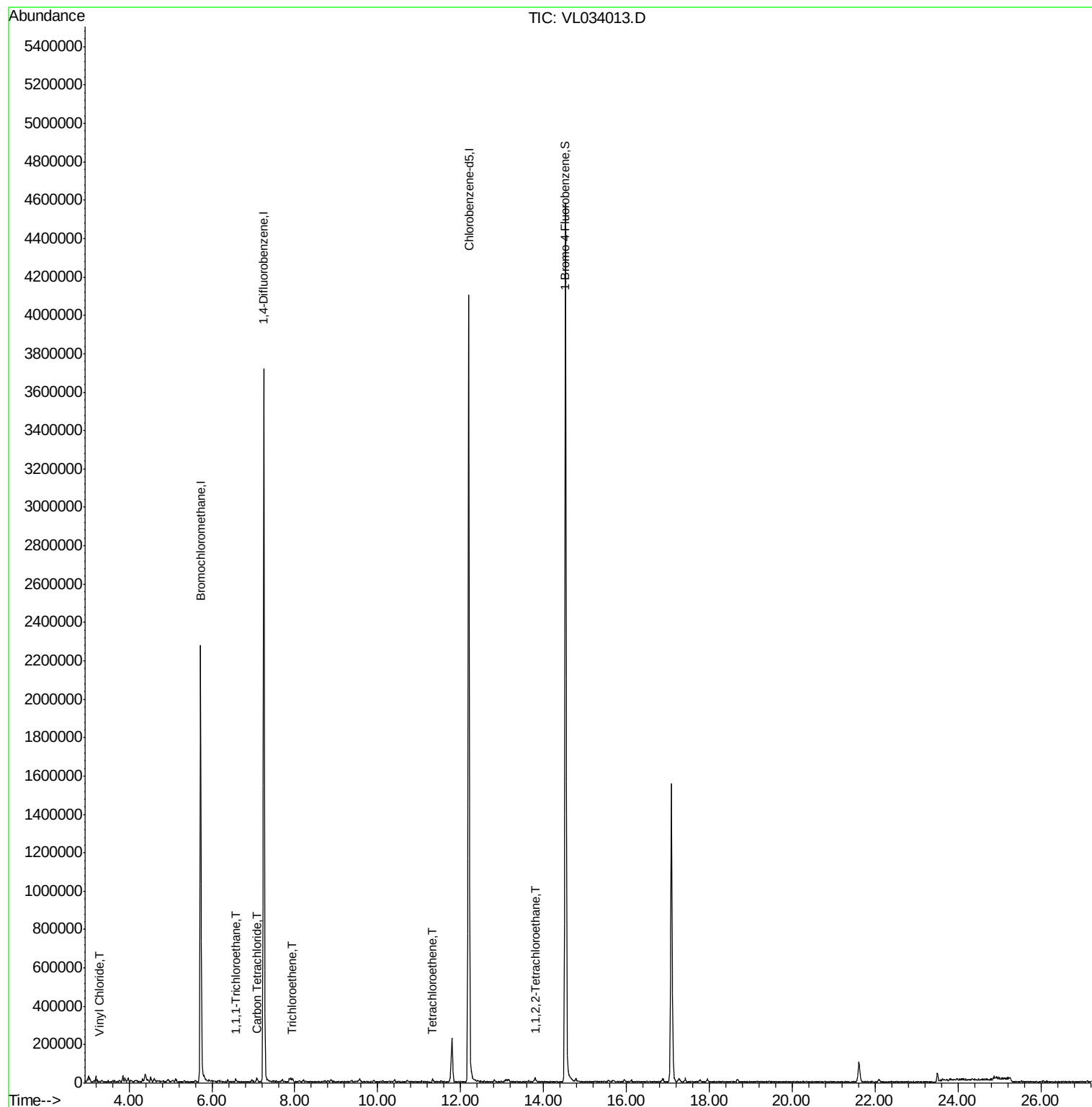
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL070819\
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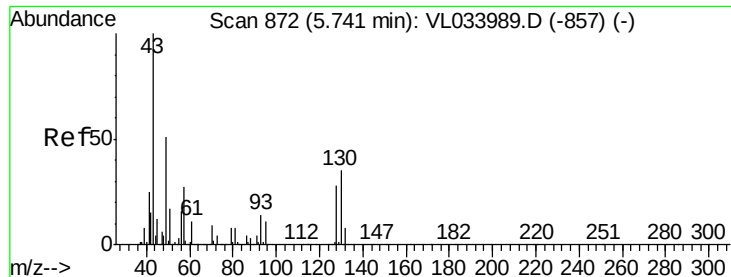
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QLast Update : Tue Jul 02 19:31:31 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.73 min Scan# 868

Delta R.T. -0.01 min

Lab File: VL034013.D

Acq: 8 Jul 2019 16:03

Instrument :

MSVOA_L

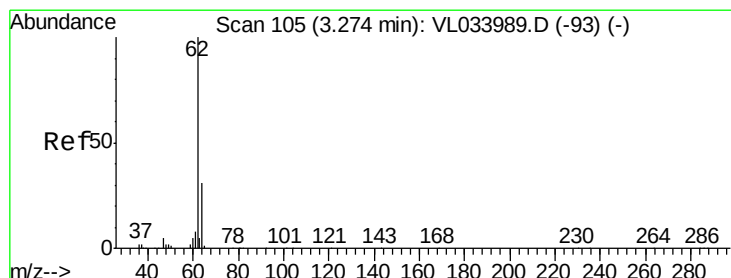
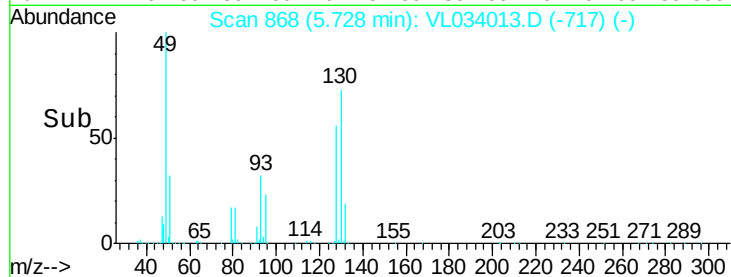
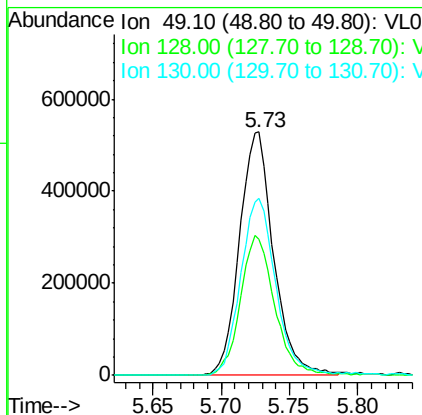
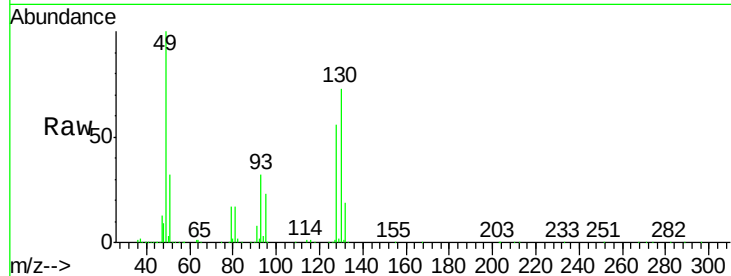
ClientSampleId :

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Tot Ion:	49	Resp:	916234
Ion	Ratio	Lower	Upper
49	100		
128	57.9	27.9	83.6
130	75.7	35.8	107.4

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#5

Vinyl Chloride

Concen: 0.052 ppbv m

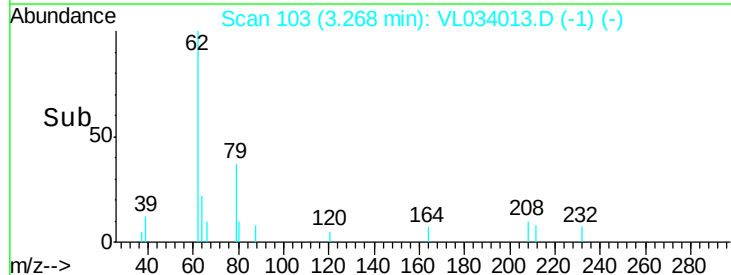
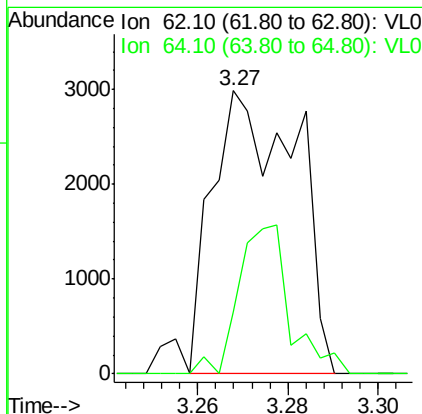
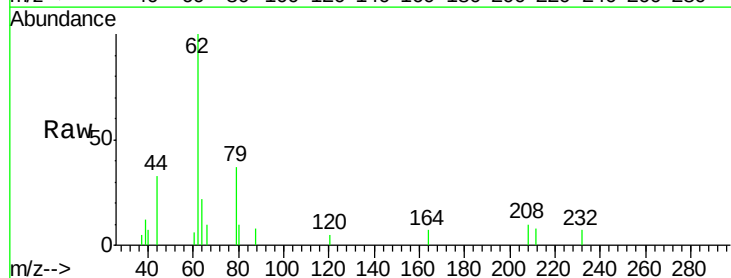
RT: 3.27 min Scan# 103

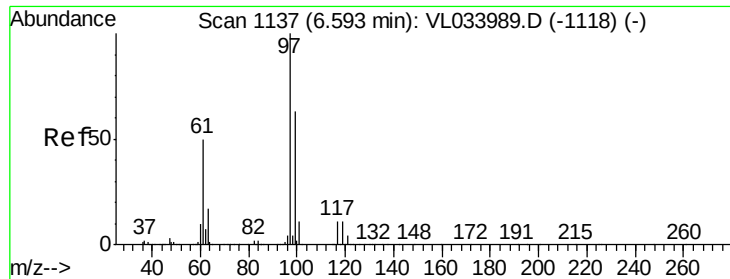
Delta R.T. -0.01 min

Lab File: VL034013.D

Acq: 8 Jul 2019 16:03

Tgt Ion:	62	Resp:	3838
Ion	Ratio	Lower	Upper
62	100		
64	21.7	24.4	36.6#





#32

1,1,1-Trichloroethane

Concen: 0.047 ppbv m

RT: 6.59 min Scan# 1135

Delta R.T. -0.01 min

Lab File: VL034013.D

Acq: 8 Jul 2019 16:03

Instrument :

MSVOA_L

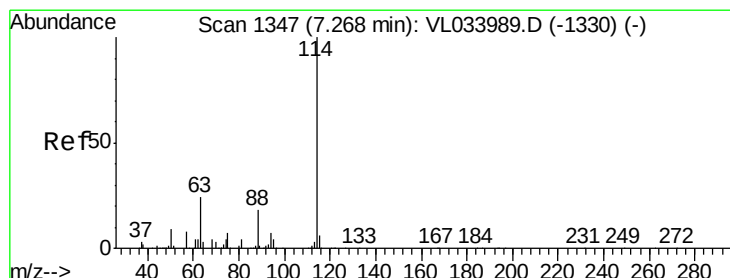
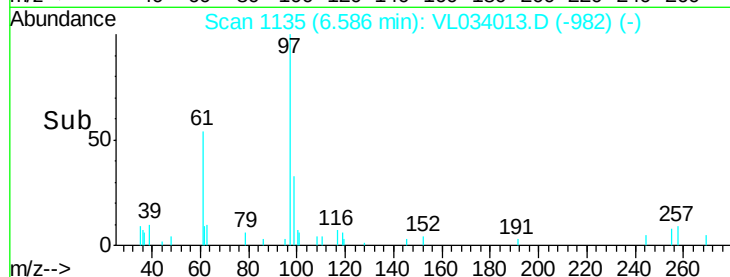
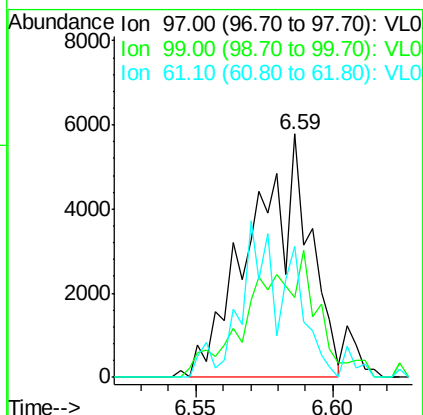
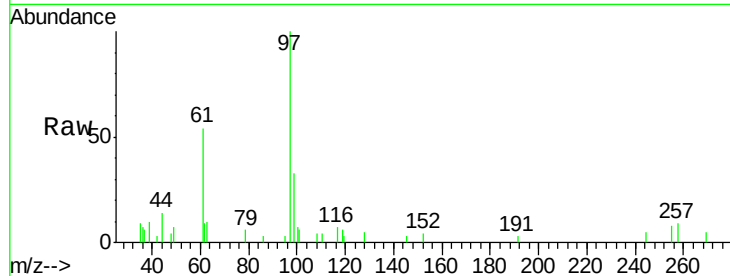
ClientSampleId :

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Tot Ion:	97	Resp:	8606
Ion	Ratio	Lower	Upper
97	100		
99	0.0	51.9	77.9#
61	0.0	39.8	59.8#

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

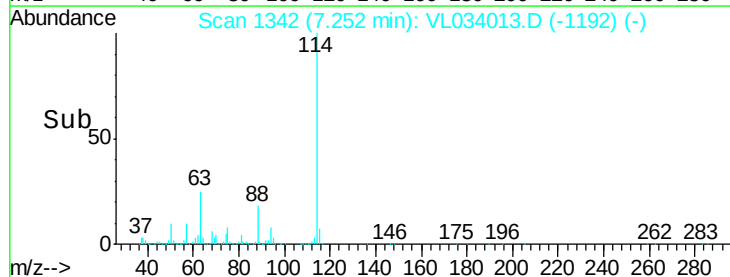
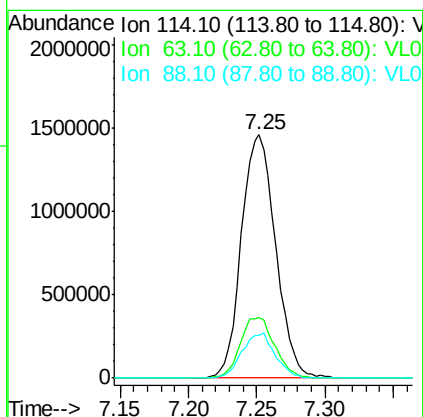
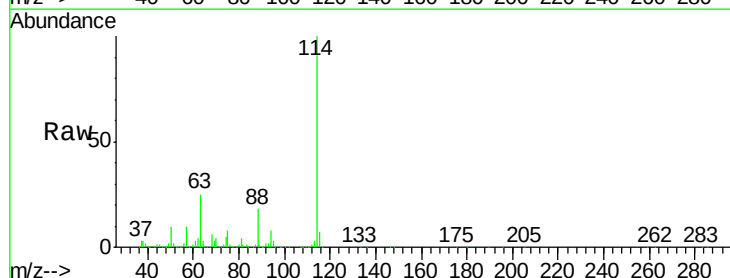
RT: 7.25 min Scan# 1342

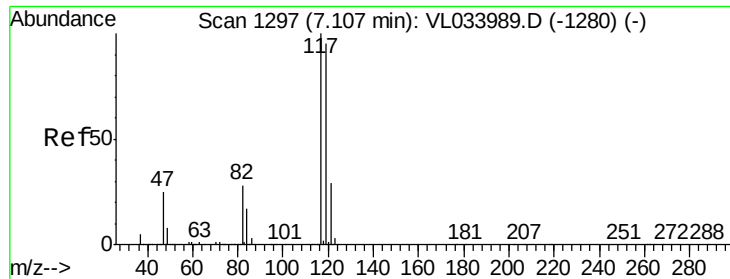
Delta R.T. -0.02 min

Lab File: VL034013.D

Acq: 8 Jul 2019 16:03

Tgt Ion:	114	Resp:	2544758
Ion	Ratio	Lower	Upper
114	100		
63	25.3	20.2	30.2
88	18.0	14.1	21.1





#35

Carbon Tetrachloride

Concen: 0.044 ppbv m

RT: 7.08 min Scan# 1289

Delta R.T. -0.03 min

Lab File: VL034013.D

Acq: 8 Jul 2019 16:03

Instrument :

MSVOA_L

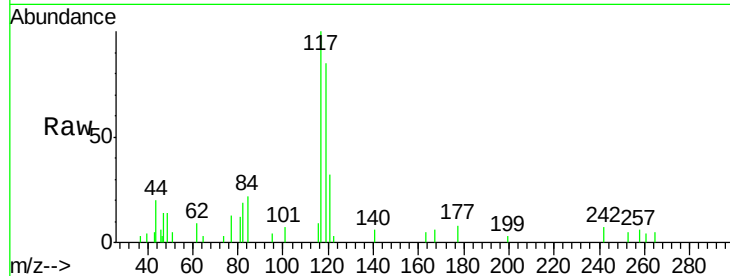
ClientSampleId :

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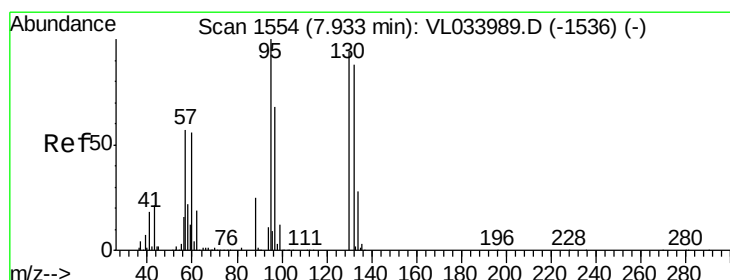
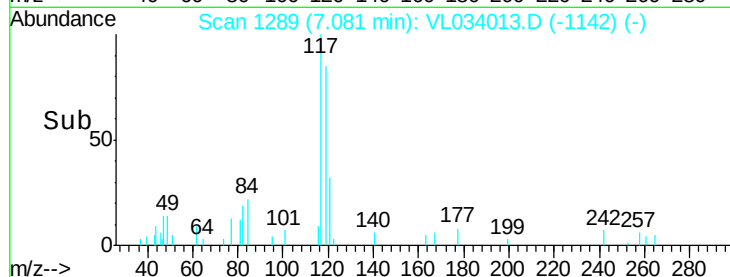
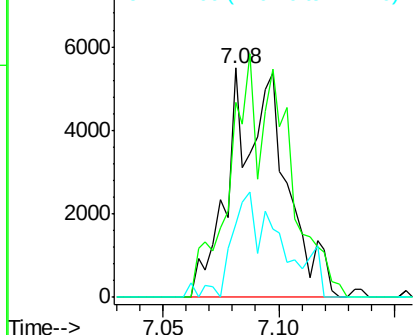
Tot Ion:	117	Resp:	8846
Ion Ratio	Lower	Upper	
117	100		
119	85.0	75.8	113.6
121	31.8	23.4	35.2

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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: 0.032 ppbv m

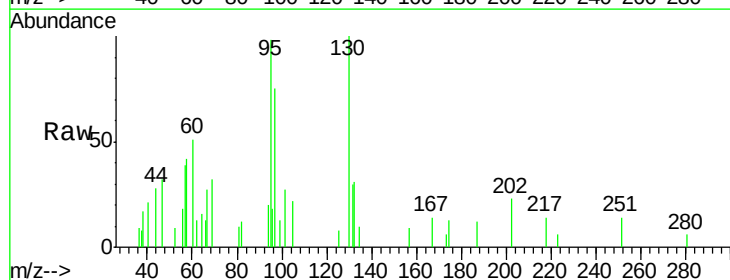
RT: 7.92 min Scan# 1551

Delta R.T. -0.01 min

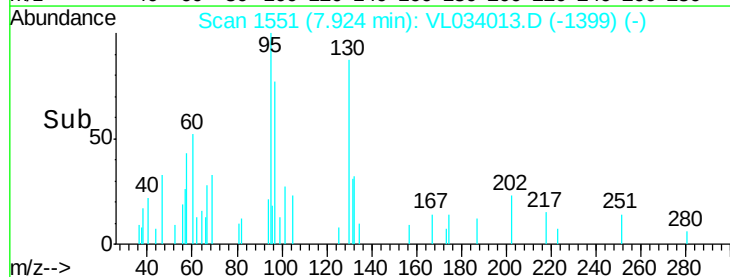
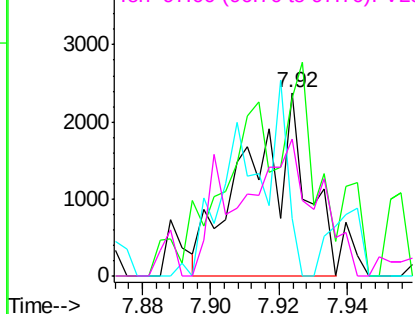
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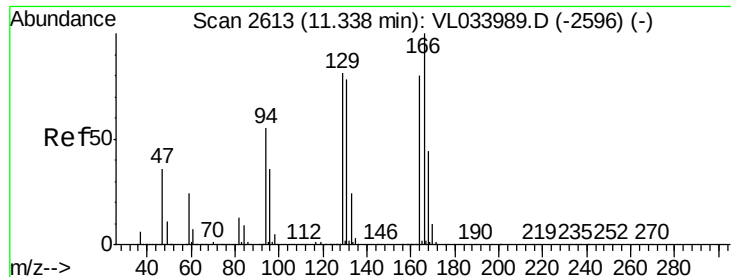
Acq: 8 Jul 2019 16:03

Tgt Ion:	130	Resp:	2835
Ion Ratio	Lower	Upper	
130	100		
95	97.5	85.5	128.3
132	31.5	75.1	112.7#
97	74.9	58.1	87.1



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





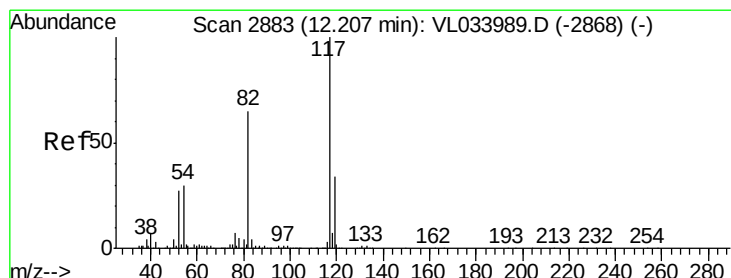
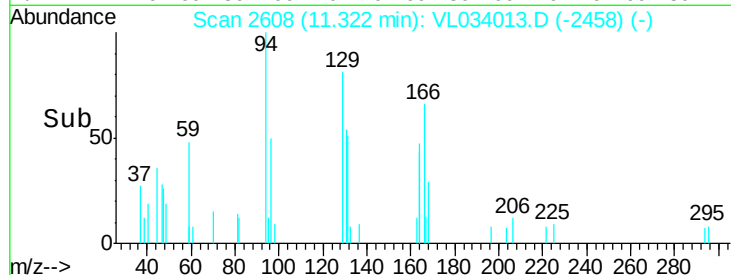
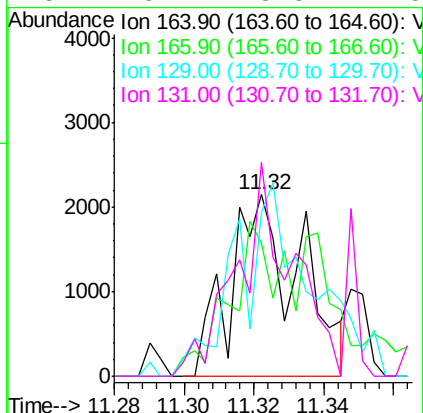
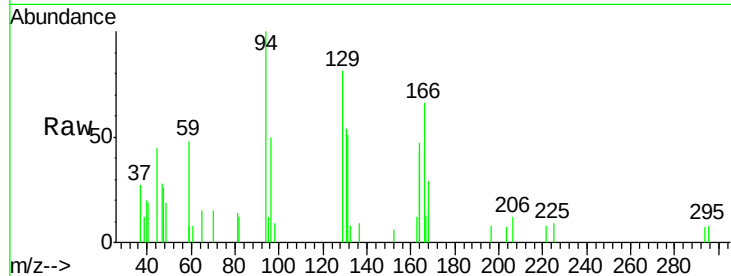
#52
Tetrachloroethene
Concen: 0.035 ppbv m
RT: 11.32 min Scan# 2608
Delta R.T. -0.02 min
Lab File: VL034013.D
Acq: 8 Jul 2019 16:03

Instrument :
MSVOA_L
ClientSampleId :
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Tot Ion	Ratio	Lower	Upper
164	100		
166	138.8	100.2	150.2
129	171.4	81.0	121.6
131	115.1	78.3	117.5

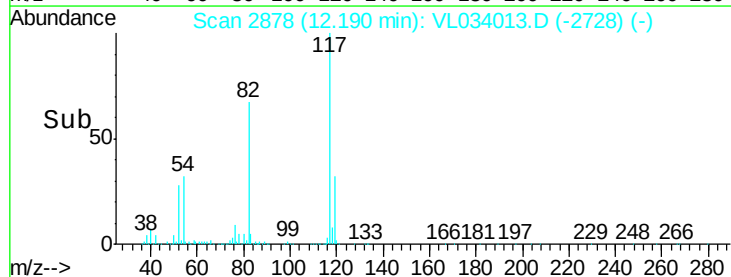
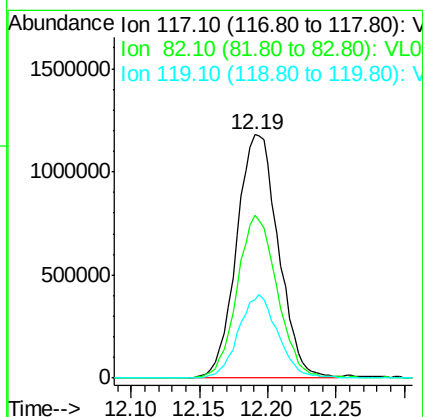
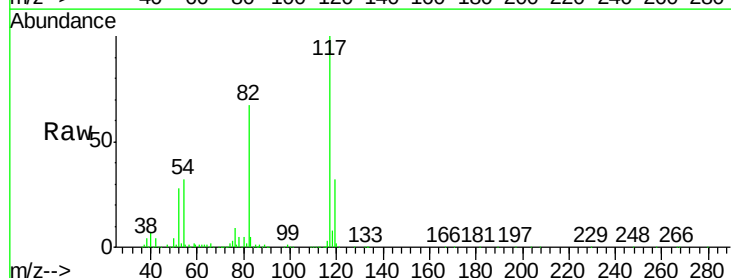
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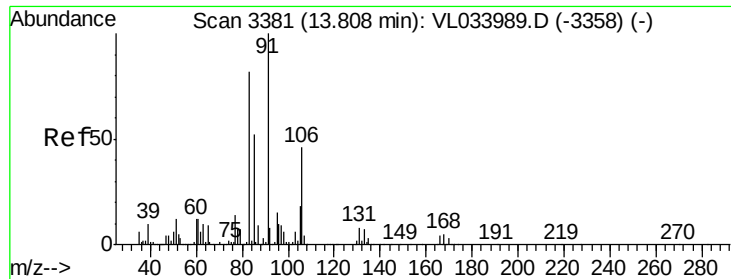
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#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.19 min Scan# 2878
Delta R.T. -0.02 min
Lab File: VL034013.D
Acq: 8 Jul 2019 16:03

Tgt Ion	Ratio	Lower	Upper
117	100		
82	65.1	50.8	76.2
119	32.6	24.0	36.0





#63

1,1,2,2-Tetrachloroethane

Concen: 0.038 ppbv m

RT: 13.79 min Scan# 3376

Delta R.T. -0.02 min

Lab File: VL034013.D

Acq: 8 Jul 2019 16:03

Instrument :

MSVOA_L

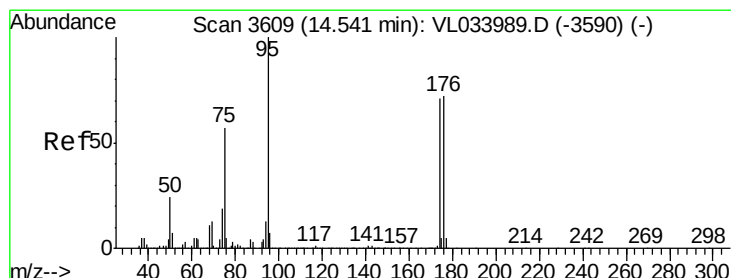
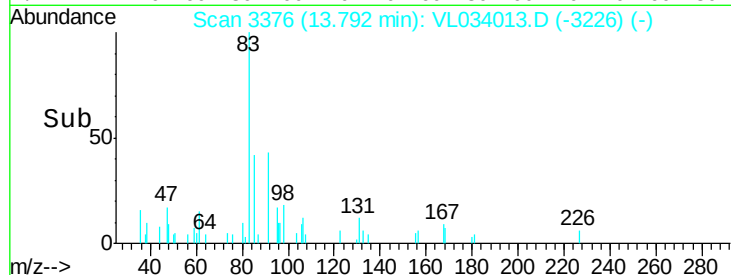
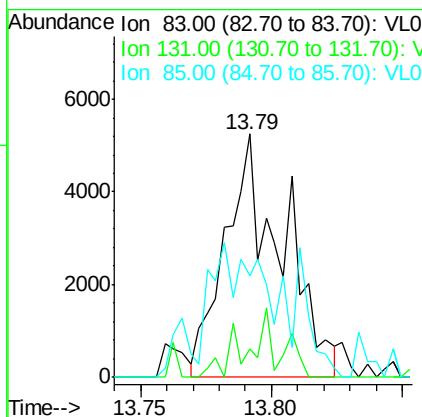
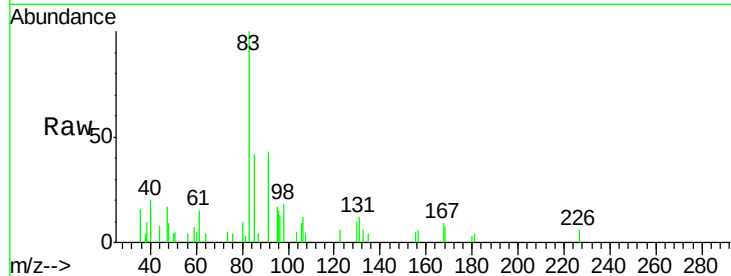
ClientSampleId :

MDL-MDL-AIR-03-QT3-2019

Tot Ion:	83	Resp:	7953
Ion Ratio	Lower	Upper	
83	100		
131	0.0	5.0	14.9#
85	80.8	32.8	98.3

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#68

1-Bromo-4-Fluorobenzene

Concen: 9.366 ppbv

RT: 14.53 min Scan# 3605

Delta R.T. -0.01 min

Lab File: VL034013.D

Acq: 8 Jul 2019 16:03

Tgt Ion:	95	Resp:	1998327
Ion Ratio	Lower	Upper	
95	100		
174	73.2	60.5	90.7
175	5.2	4.0	6.0

