

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101719\
 Data File : VL034322.D
 Acq On : 17 Oct 2019 18:40
 Operator : SY/AP
 Sample : K5111-15 0.03 PPB MDL
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-MDL-AIR-03-QT4-2019DL

Manual Integrations
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 10/22/2019 2:54:59 PM

Quant Time: Oct 18 05:18:35 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 18 05:18:35 2019
 QLast Update : Thu Oct 17 05:12:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	969306	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.21	114	1824034	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.15	117	1825450	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.49	95	1581499	10.23	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.23	62	2924m	0.046	ppbv	
32) 1,1,1-Trichloroethane	6.54	97	6243m	0.041	ppbv	
35) Carbon Tetrachloride	7.06	117	5405m	0.034	ppbv	
38) Trichloroethene	7.89	130	2647m	0.038	ppbv	
52) Tetrachloroethene	11.29	164	2765m	0.040	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.76	83	6606m	0.037	ppbv	

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

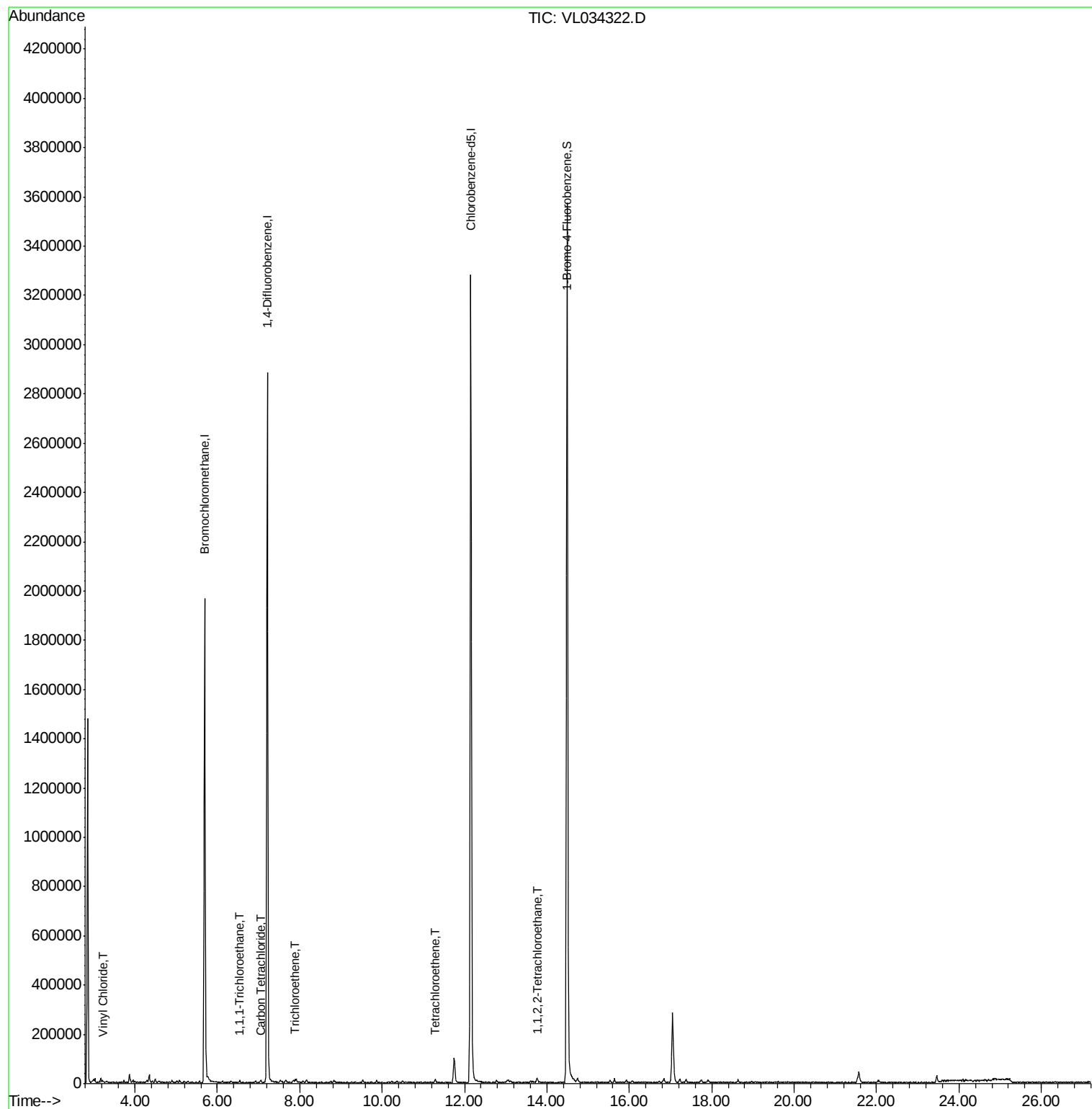
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL101719\
Data File : VL034322.D
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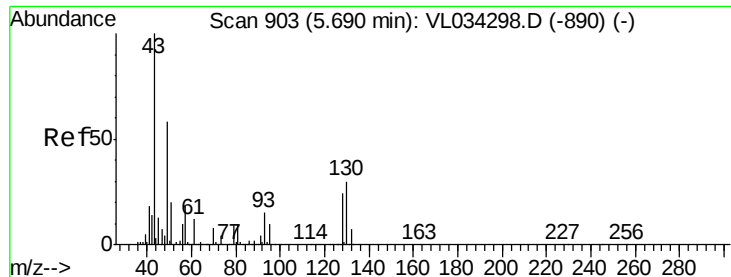
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QLast Update : Thu Oct 17 05:12:37 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 903

Delta R.T. -0.00 min

Lab File: VL034322.D

Acq: 17 Oct 2019 18:40

Instrument :

MSVOA_L

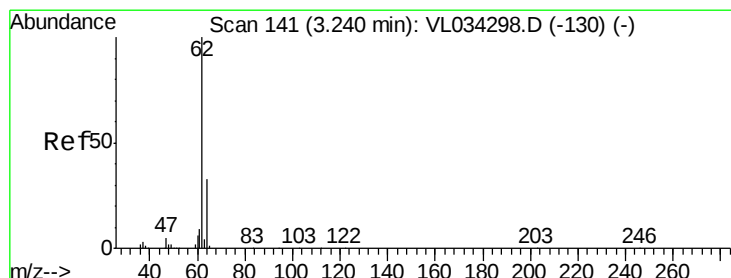
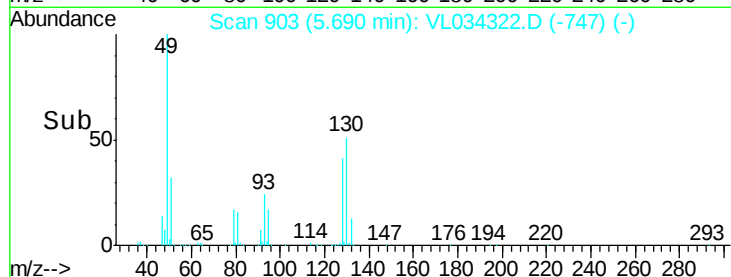
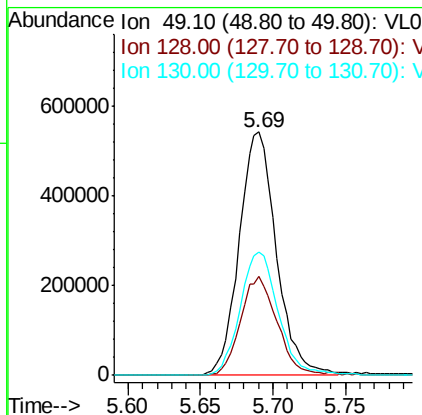
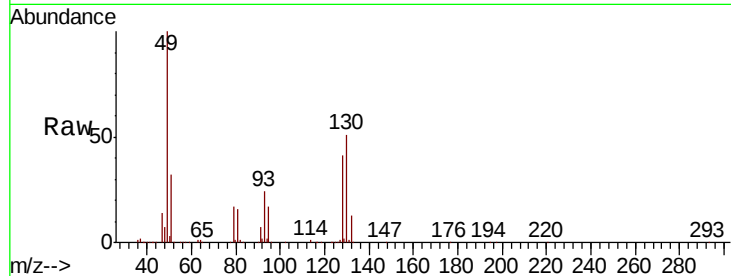
ClientSampleId :

MDL-MDL-AIR-03-QT4-2019DL

Tot Ion:	49	Resp:	969306
Ion Ratio	Lower	Upper	
49	100		
128	40.3	20.6	61.8
130	52.5	26.2	78.5

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#5

Vinyl Chloride

Concen: 0.046 ppbv m

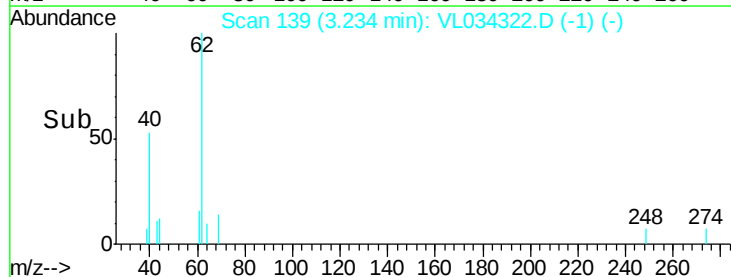
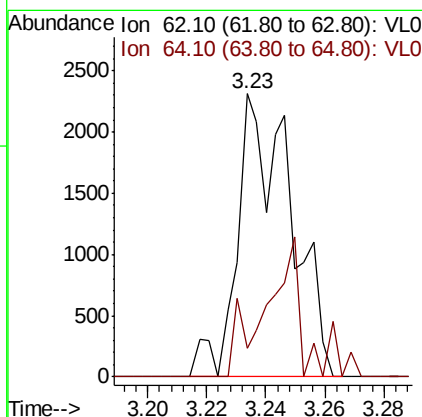
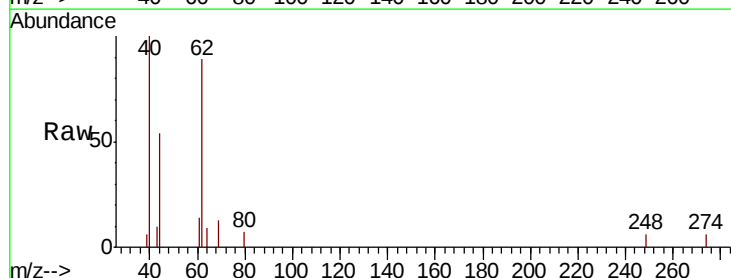
RT: 3.23 min Scan# 139

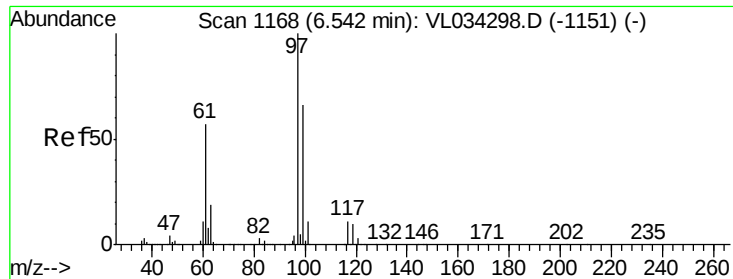
Delta R.T. -0.01 min

Lab File: VL034322.D

Acq: 17 Oct 2019 18:40

Tgt Ion:	62	Resp:	2924
Ion Ratio	Lower	Upper	
62	100		
64	10.1	26.0	39.0#





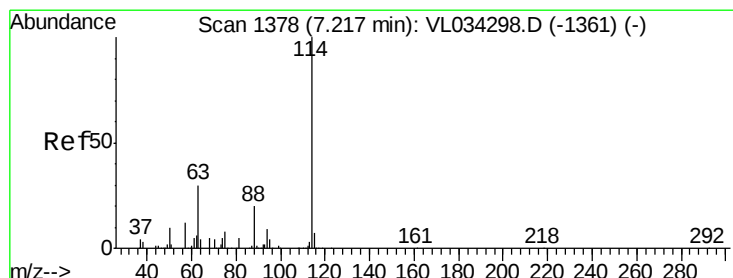
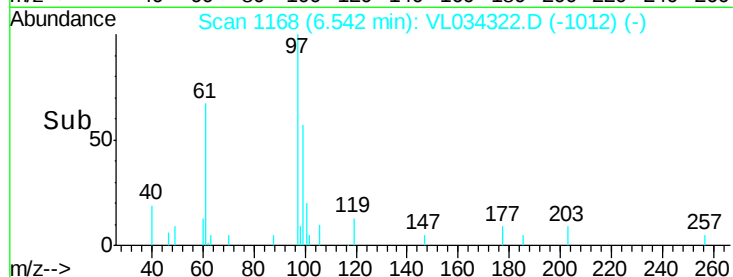
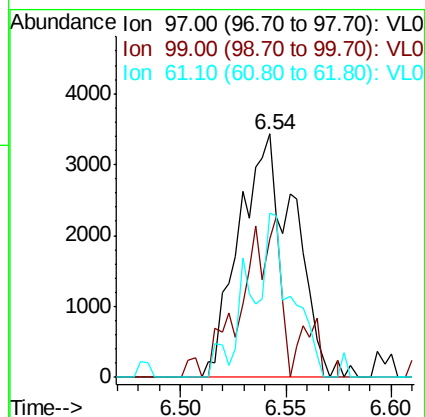
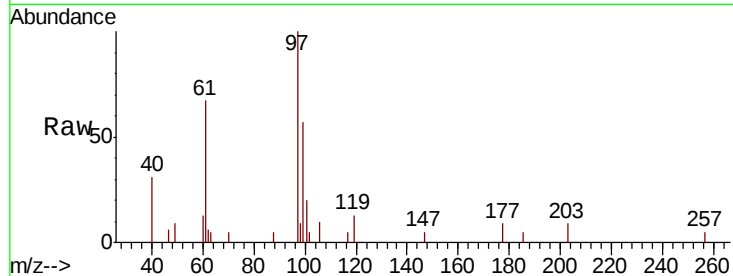
#32
 1,1,1-Trichloroethane
 Concen: 0.041 ppbv m
 RT: 6.54 min Scan# 1168
 Delta R.T. 0.00 min
 Lab File: VL034322.D
 Acq: 17 Oct 2019 18:40

Instrument :
 MSVOA_L
 ClientSampleId :
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Tot Ion	Ratio	Lower	Upper
97	100		
99	53.3	52.6	78.8
61	51.7	44.5	66.7

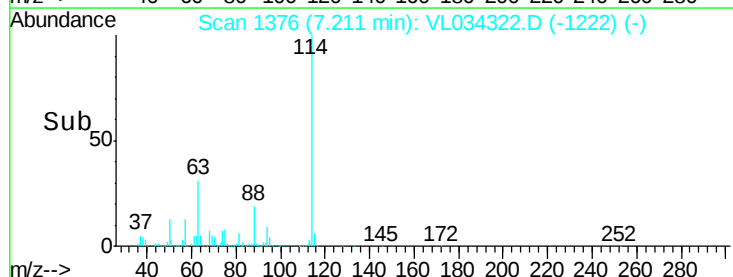
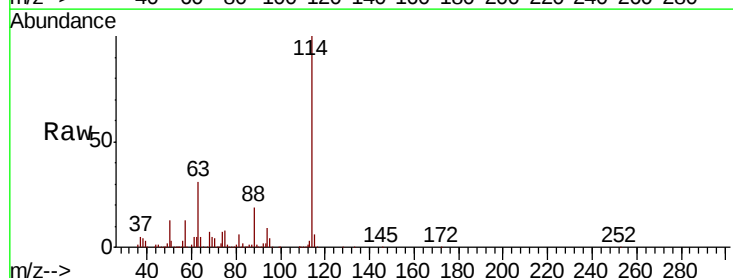
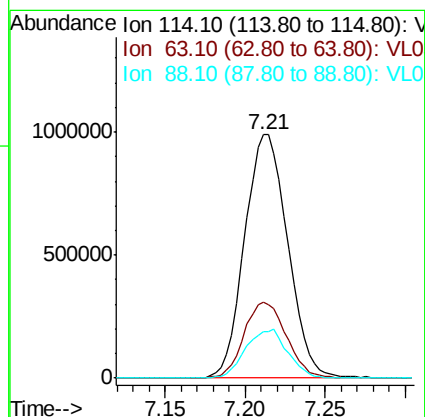
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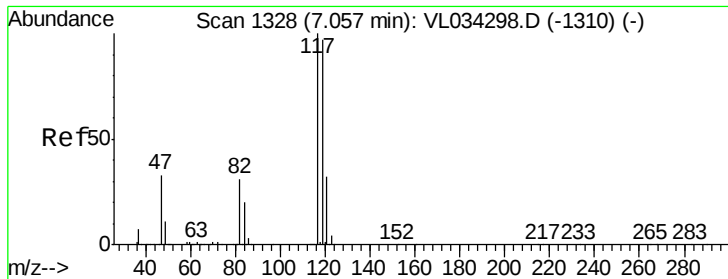
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#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.21 min Scan# 1376
 Delta R.T. -0.01 min
 Lab File: VL034322.D
 Acq: 17 Oct 2019 18:40

Tgt Ion	Ratio	Lower	Upper
114	100		
63	30.9	25.2	37.8
88	19.7	16.0	24.0





#35

Carbon Tetrachloride

Concen: 0.034 ppbv m

RT: 7.06 min Scan# 1329

Delta R.T. 0.00 min

Lab File: VL034322.D

Acq: 17 Oct 2019 18:40

Instrument :

MSVOA_L

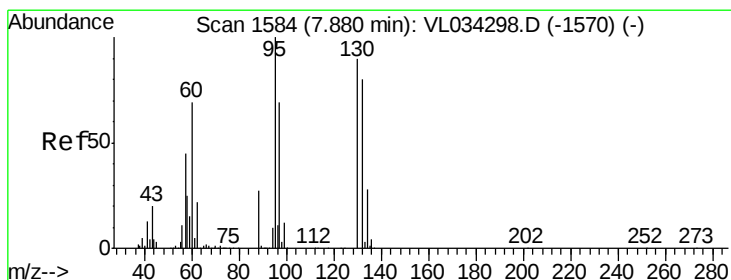
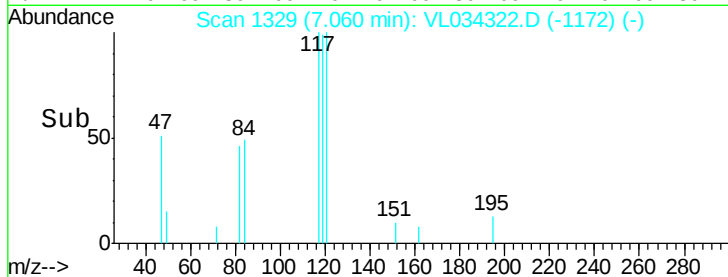
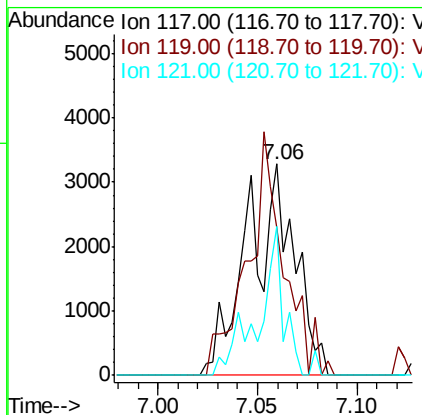
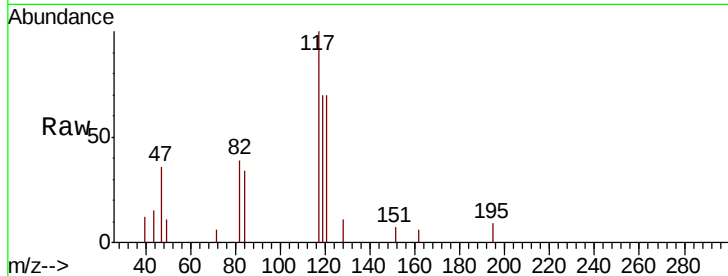
ClientSampleId :

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Tot Ion:	117	Resp:	5405
Ion Ratio	Lower	Upper	
117	100		
119	69.8	77.3	115.9#
121	70.5	25.5	38.3#

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#38

Trichloroethene

Concen: 0.038 ppbv m

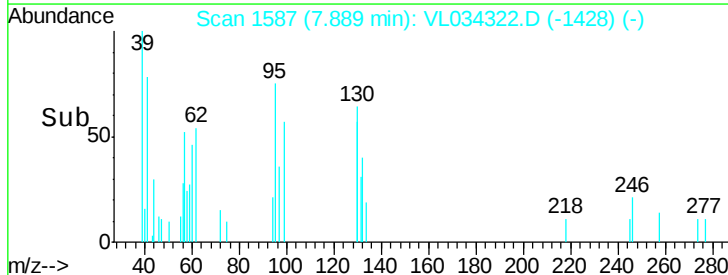
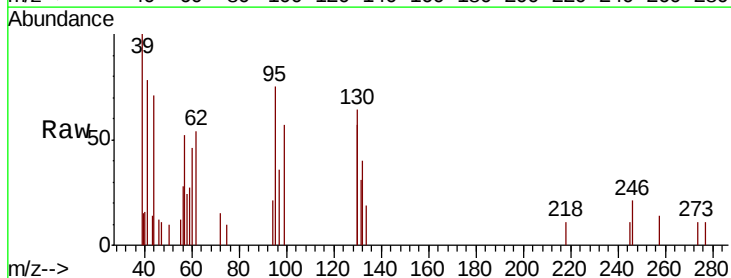
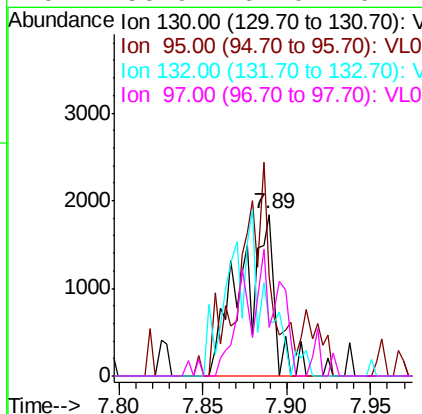
RT: 7.89 min Scan# 1587

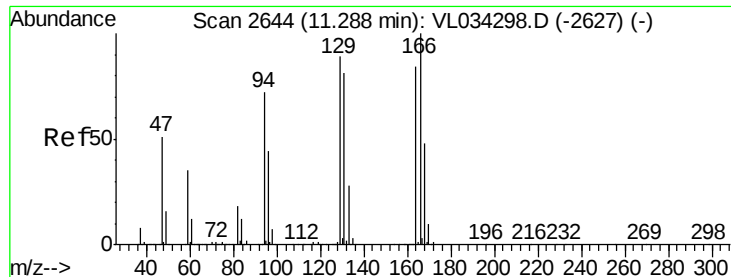
Delta R.T. 0.01 min

Lab File: VL034322.D

Acq: 17 Oct 2019 18:40

Tgt Ion:	130	Resp:	2647
Ion Ratio	Lower	Upper	
130	100		
95	117.1	88.6	132.8
132	62.7	71.2	106.8#
97	56.9	61.0	91.4#





#52

Tetrachloroethene

Concen: 0.040 ppbv m

RT: 11.29 min Scan# 2644

Delta R.T. -0.00 min

Lab File: VL034322.D

Acq: 17 Oct 2019 18:40

Instrument :

MSVOA_L

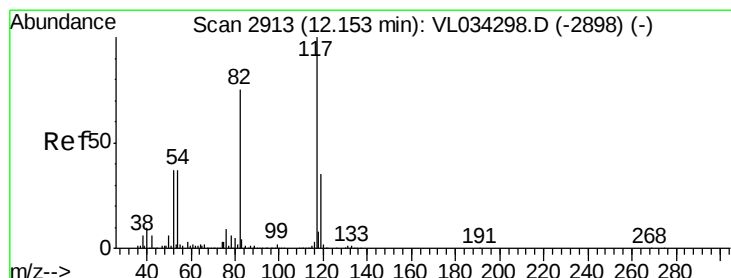
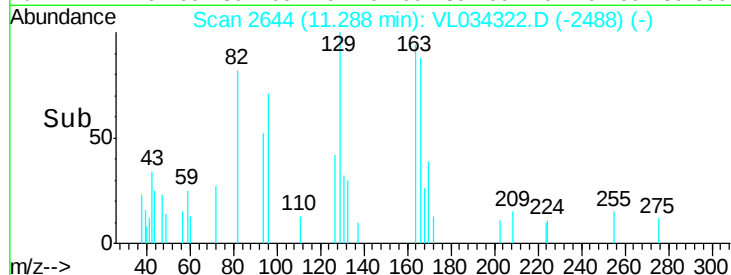
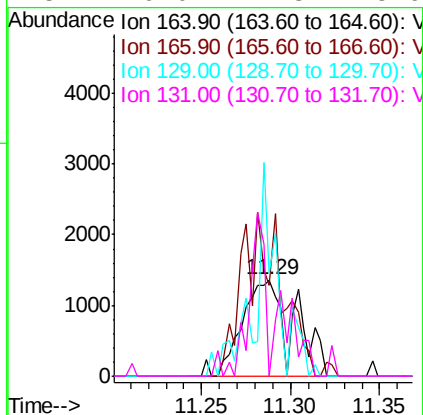
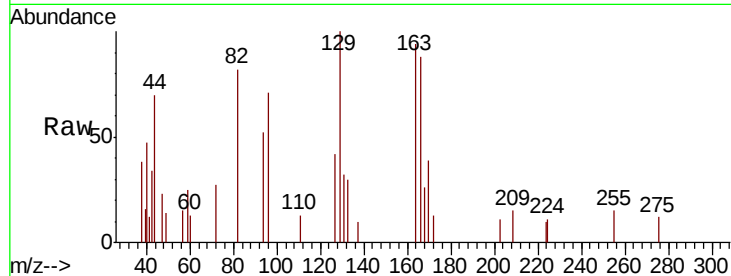
ClientSampleId :

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Tot Ion:	164	Resp:	2765
Ion	Ratio	Lower	Upper
164	100		
166	93.9	95.3	142.9#
129	106.9	84.5	126.7
131	0.0	77.3	115.9#

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

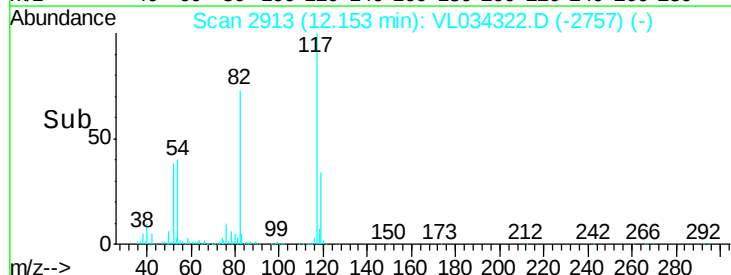
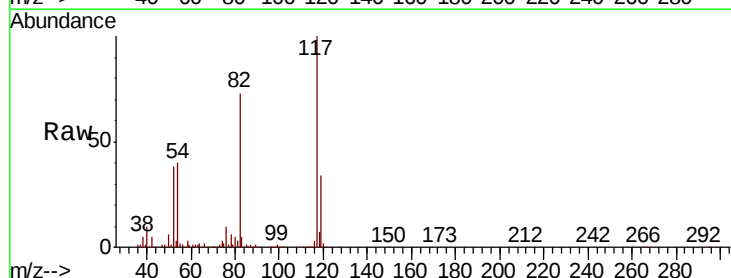
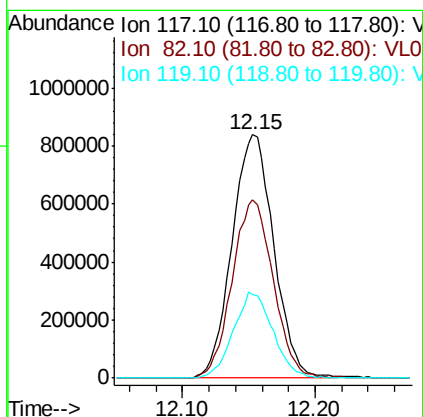
RT: 12.15 min Scan# 2913

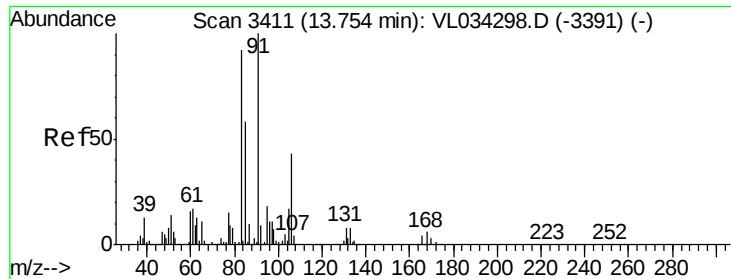
Delta R.T. -0.00 min

Lab File: VL034322.D

Acq: 17 Oct 2019 18:40

Tgt Ion:	117	Resp:	1825450
Ion	Ratio	Lower	Upper
117	100		
82	72.8	55.5	83.3
119	33.8	26.5	39.7





#63

1,1,2,2-Tetrachloroethane

Concen: 0.037 ppbv m

RT: 13.76 min Scan# 3412

Delta R.T. 0.00 min

Lab File: VL034322.D

Acq: 17 Oct 2019 18:40

Instrument :

MSVOA_L

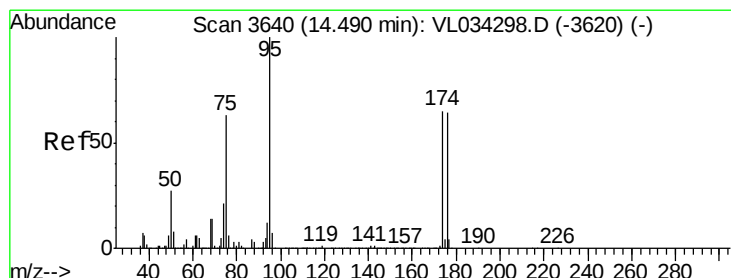
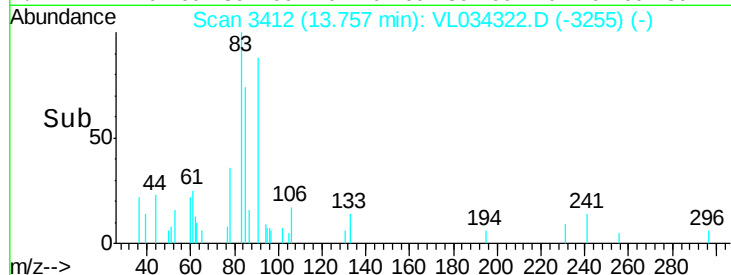
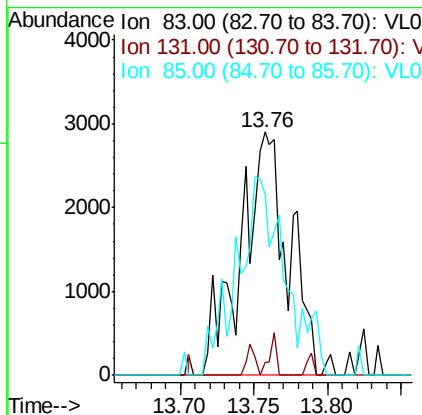
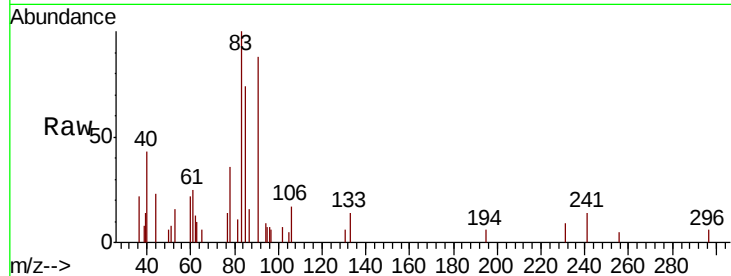
ClientSampleId :

MDL-MDL-AIR-03-QT4-2019DL

Tot Ion:	83	Resp:	6606
Ion Ratio	Lower	Upper	
83	100		
131	0.0	4.8	14.4#
85	0.0	32.5	97.4#

Manual Integrations
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#68

1-Bromo-4-Fluorobenzene

Concen: 10.229 ppbv

RT: 14.49 min Scan# 3640

Delta R.T. 0.00 min

Lab File: VL034322.D

Acq: 17 Oct 2019 18:40

Tgt Ion:	95	Resp:	1581499
Ion Ratio	Lower	Upper	
95	100		
174	64.9	52.6	78.8
175	4.5	3.8	5.6

