

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL070518\
 Data File : VL032222.D
 Acq On : 6 Jul 2018 3:08
 Operator : SY/AP
 Sample : J3762-15 0.03 PPB LOD
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT3-2018

Manual Integrations
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 7/9/2018 10:47:54 AM

Quant Time: Jul 06 11:38:13 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL062918AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 2
 QLast Update : Fri Jun 29 22:27:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.84	49	1635462	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.38	114	4005172	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.34	117	3907399	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.67	95	2989796	10.01	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.34	62	3593m	0.03	ppbv	
32) 1,1,1-Trichloroethane	6.71	97	9599m	0.03	ppbv	
35) Carbon Tetrachloride	7.22	117	9413m	0.03	ppbv	
38) Trichloroethene	8.05	130	5430m	0.04	ppbv	
52) Tetrachloroethene	11.46	164	5395m	0.04	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.94	83	14729m	0.04	ppbv	

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

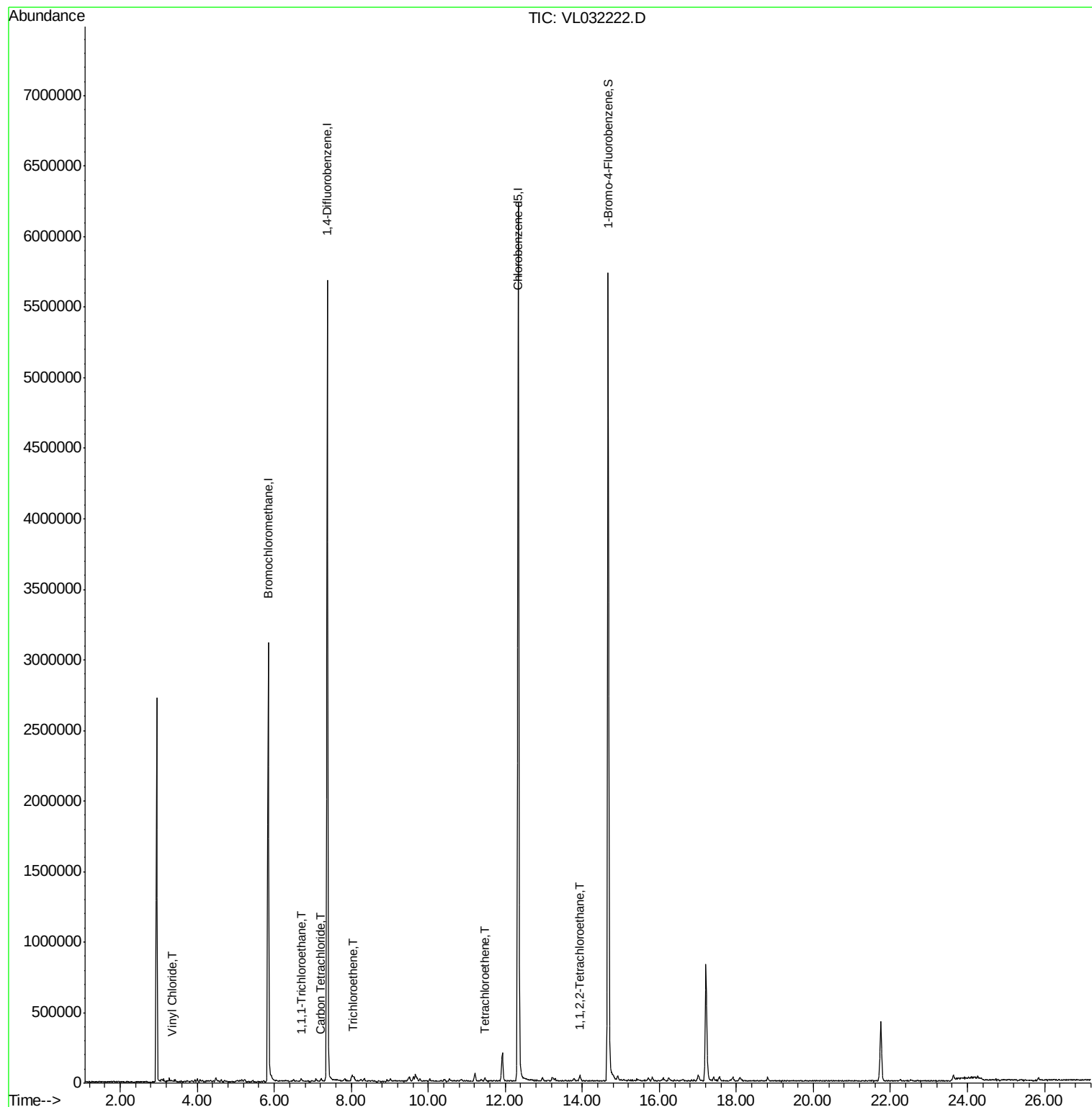
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL070518\
Data File : VL032222.D
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Operator : SY/AP
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Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

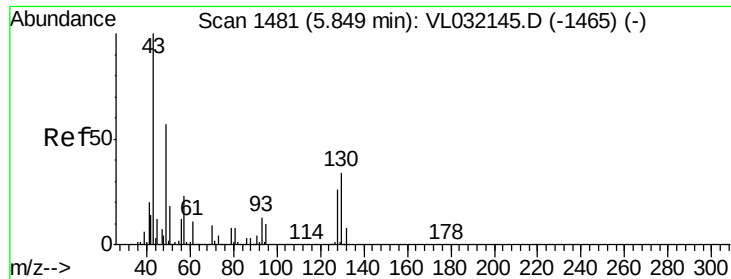
Instrument :
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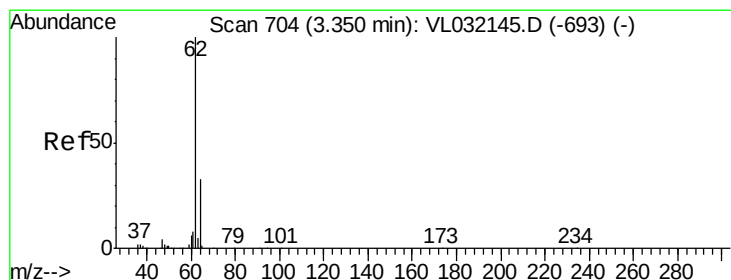
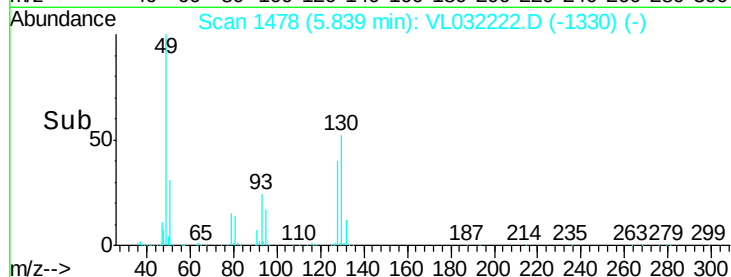
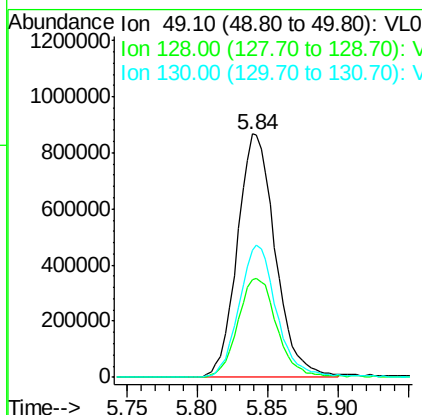
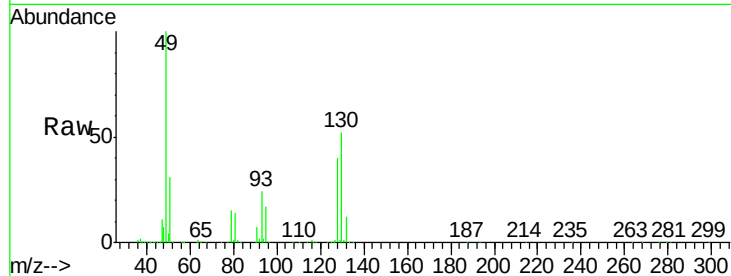
#1
 Bromochloromethane
 Concen: 10.00 ppbv
 RT: 5.84 min Scan# 1478
 Delta R.T. -0.02 min
 Lab File: VL032222.D
 Acq: 6 Jul 2018 3:08

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT3-2018

Tot Ion: 49 Resp: 1635462
 Ion Ratio Lower Upper
 49 100
 128 42.6 23.4 70.0
 130 54.5 30.3 90.9

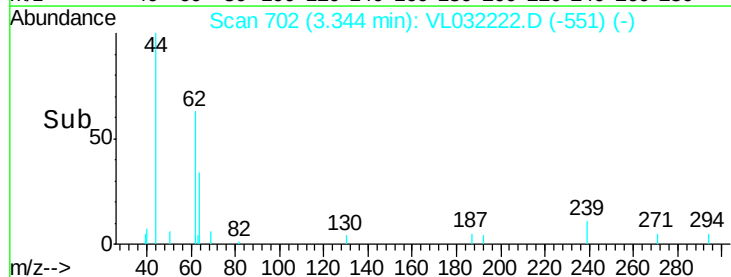
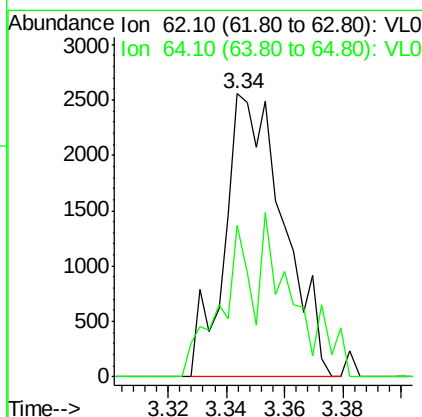
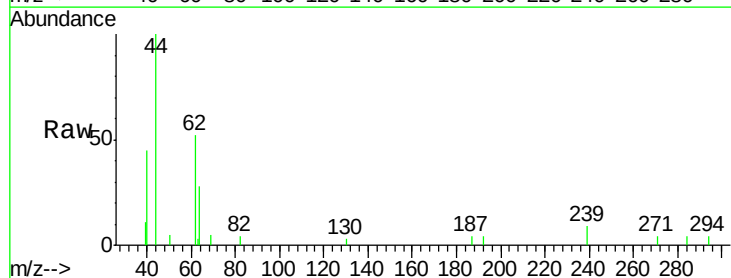
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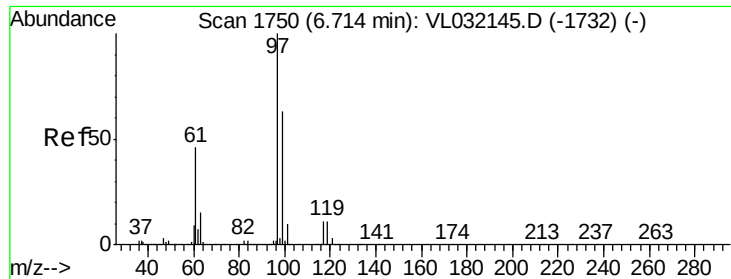
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#5
 Vinyl Chloride
 Concen: 0.03 ppbv m
 RT: 3.34 min Scan# 702
 Delta R.T. -0.01 min
 Lab File: VL032222.D
 Acq: 6 Jul 2018 3:08

Tgt Ion: 62 Resp: 3593
 Ion Ratio Lower Upper
 62 100
 64 53.8 26.1 39.1#





#32

1,1,1-Trichloroethane

Concen: 0.03 ppbv m

RT: 6.71 min Scan# 1749

Delta R.T. -0.01 min

Lab File: VL032222.D

Acq: 6 Jul 2018 3:08

Instrument :

MSVOA_L

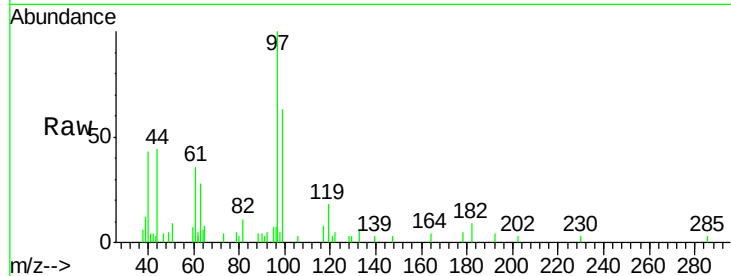
ClientSampleId :

MDL-AIR-03-QT3-2018

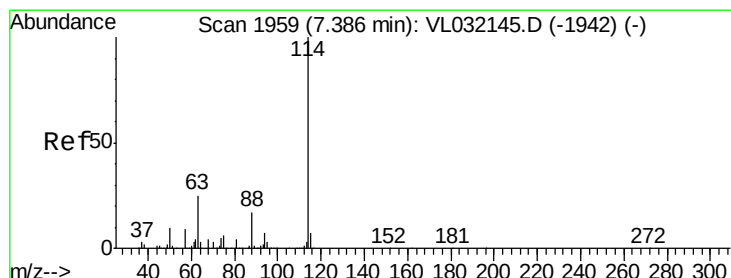
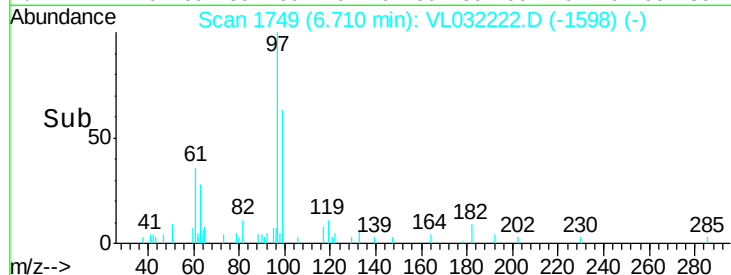
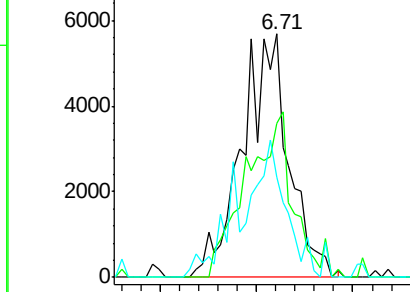
Tot Ion:	97	Resp:	9599
Ion Ratio	Lower	Upper	
97	100		
99	0.0	51.3	76.9#
61	0.0	38.4	57.6#

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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: 10.00 ppbv

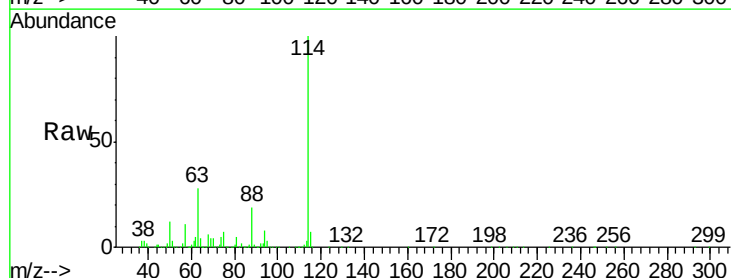
RT: 7.38 min Scan# 1957

Delta R.T. -0.02 min

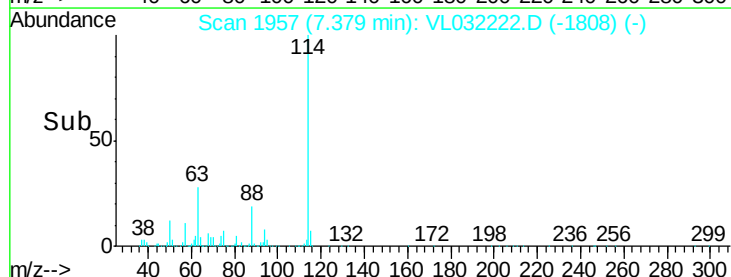
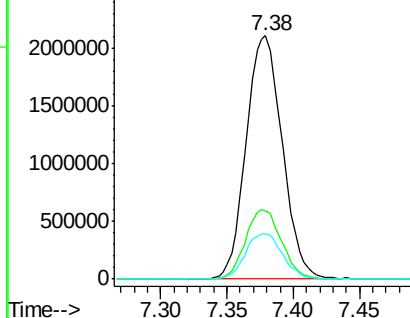
Lab File: VL032222.D

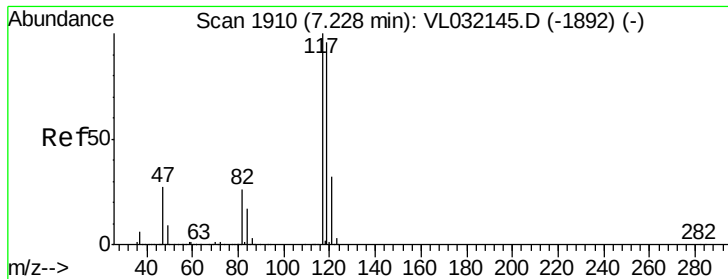
Acq: 6 Jul 2018 3:08

Tgt Ion:	114	Resp:	4005172
Ion Ratio	Lower	Upper	
114	100		
63	28.7	19.1	28.7#
88	19.2	13.9	20.9



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: 0.03 ppbv m

RT: 7.22 min Scan# 1908

Delta R.T. -0.02 min

Lab File: VL032222.D

Acq: 6 Jul 2018 3:08

Instrument :

MSVOA_L

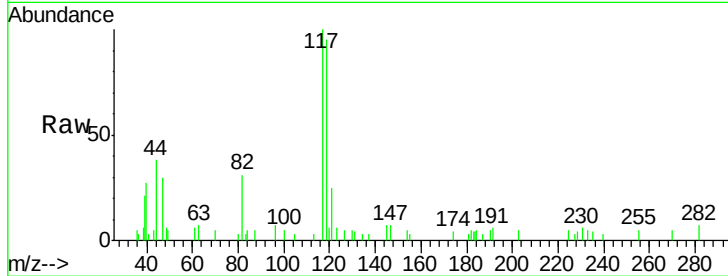
ClientSampleId :

MDL-AIR-03-QT3-2018

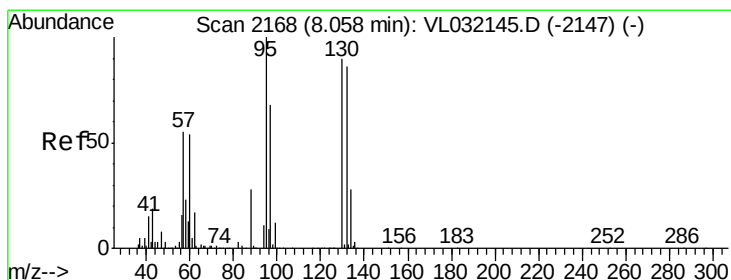
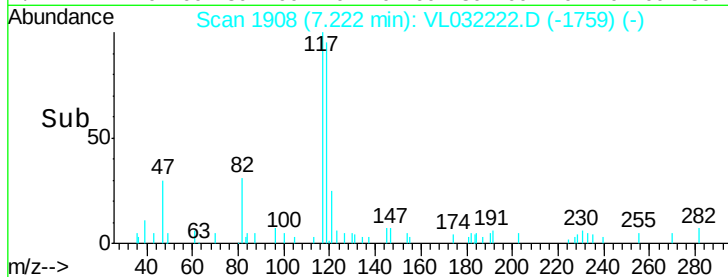
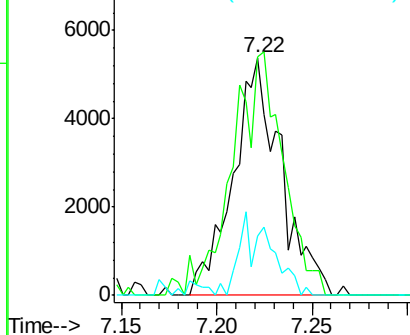
Tot Ion:	117	Resp:	9413
Ion Ratio	Lower	Upper	
117	100		
119	94.5	74.8	112.2
121	25.2	24.0	36.0

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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: 0.04 ppbv m

RT: 8.05 min Scan# 2167

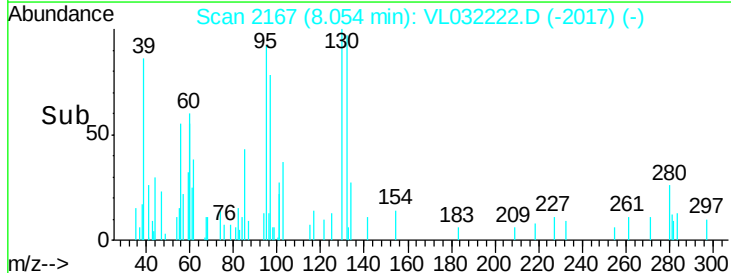
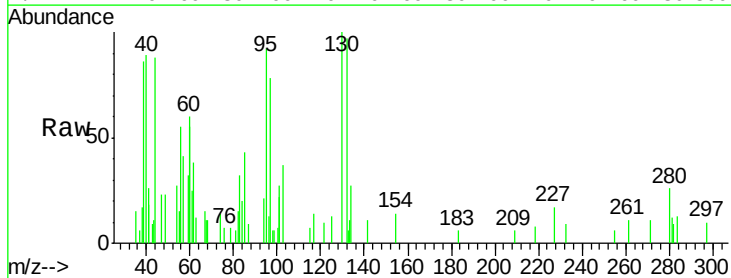
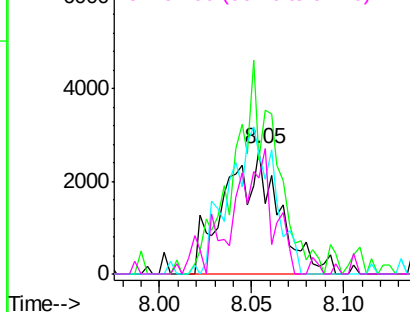
Delta R.T. -0.02 min

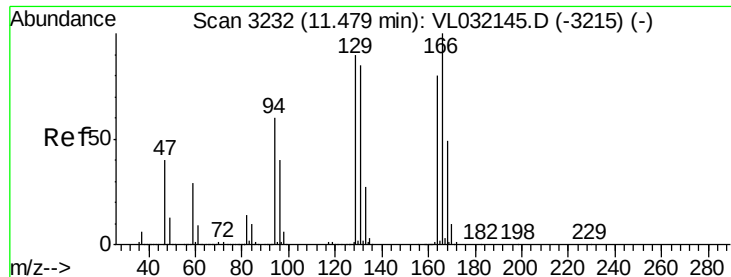
Lab File: VL032222.D

Acq: 6 Jul 2018 3:08

Tgt Ion:	130	Resp:	5430
Ion Ratio	Lower	Upper	
130	100		
95	91.6	88.1	132.1
132	96.8	74.6	112.0
97	77.7	58.6	88.0

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





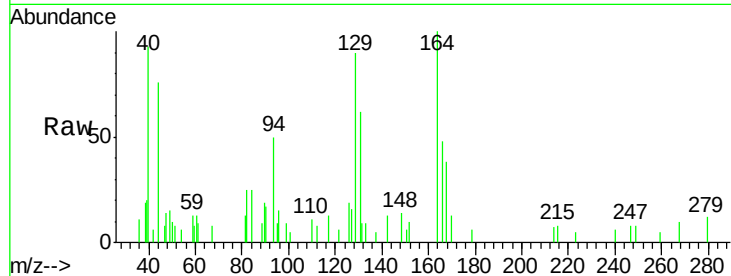
#52
Tetrachloroethene
Concen: 0.04 ppbv m
RT: 11.46 min Scan# 3226
Delta R.T. -0.03 min
Lab File: VL032222.D
Acq: 6 Jul 2018 3:08

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT3-2018

Tot Ion	Ratio	Lower	Upper
164	100		
166	47.9	100.6	151.0#
129	90.1	84.0	126.0
131	62.0	82.7	124.1#

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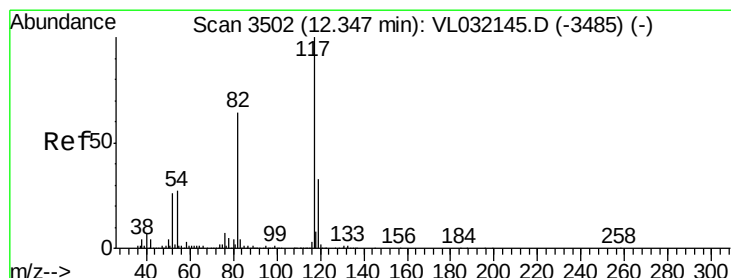
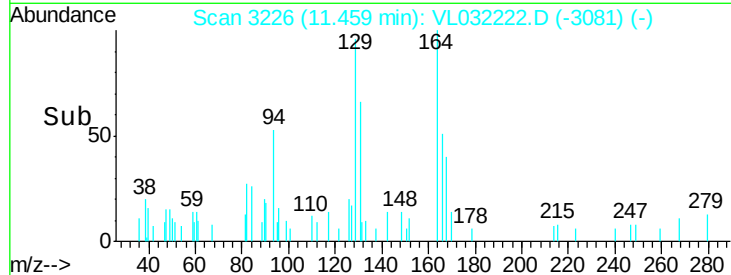
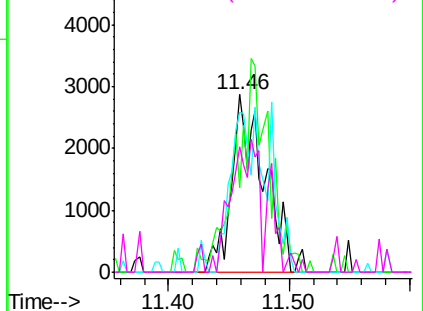
Abundance

Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

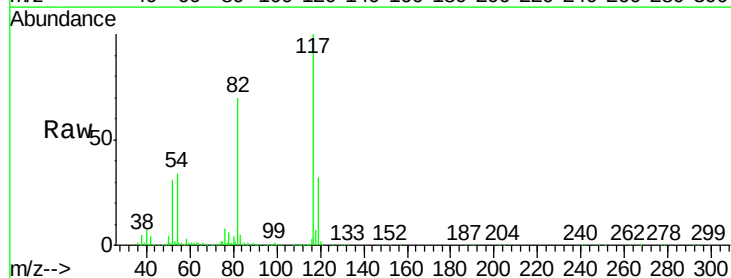
Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.34 min Scan# 3499
Delta R.T. -0.02 min
Lab File: VL032222.D
Acq: 6 Jul 2018 3:08

Tgt Ion	Ratio	Lower	Upper
117	100		
82	70.9	47.8	71.8
119	32.8	43.3	64.9#

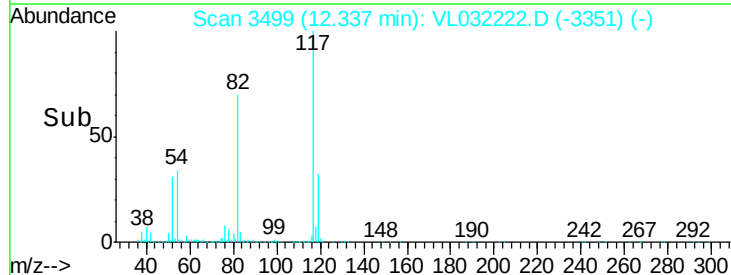
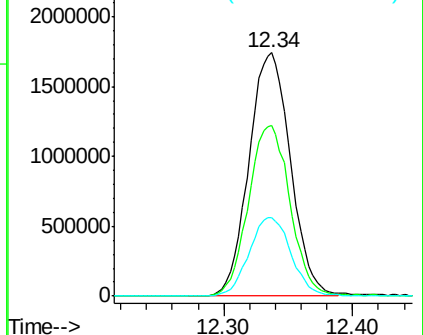


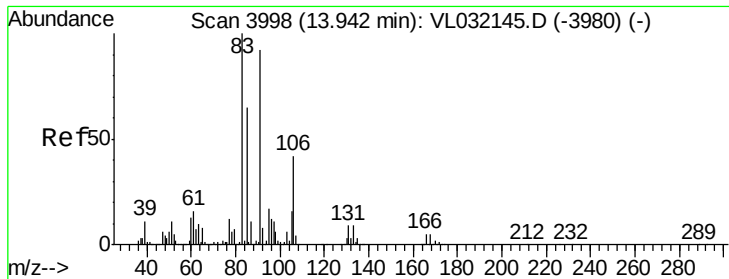
Abundance

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: 0.04 ppbv m

RT: 13.94 min Scan# 3996

Delta R.T. -0.02 min

Lab File: VL032222.D

Acq: 6 Jul 2018 3:08

Instrument :

MSVOA_L

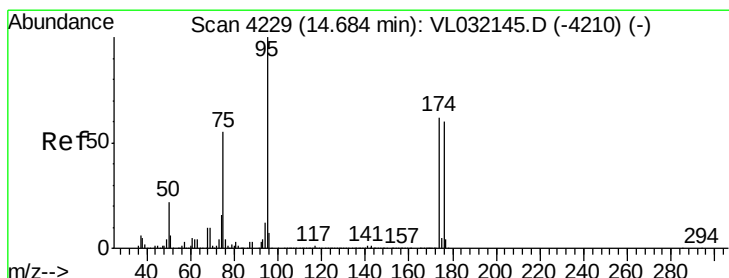
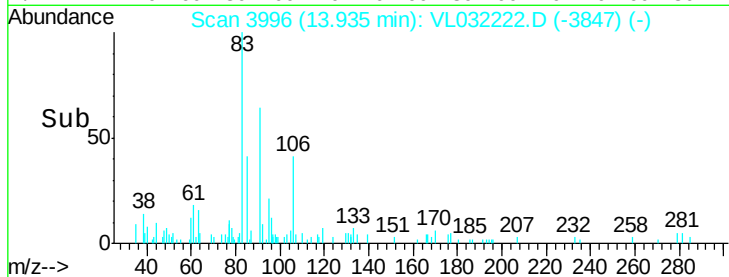
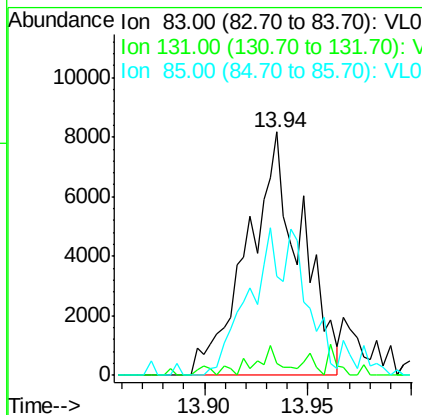
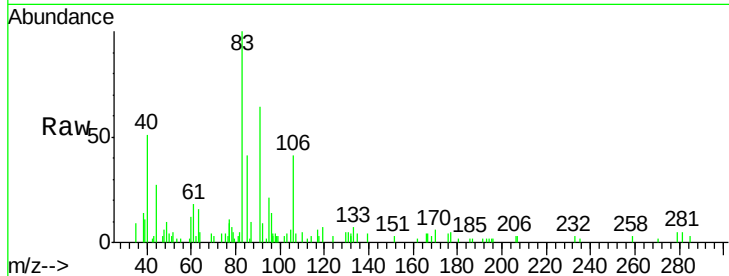
ClientSampleId :

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Tot Ion:	83	Resp:	14729
Ion Ratio	Lower	Upper	
83	100		
131	6.6	4.6	13.8
85	66.4	32.4	97.2

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#68

1-Bromo-4-Fluorobenzene

Concen: 10.01 ppbv

RT: 14.67 min Scan# 4225

Delta R.T. -0.03 min

Lab File: VL032222.D

Acq: 6 Jul 2018 3:08

Tgt Ion:	95	Resp:	2989796
Ion Ratio	Lower	Upper	
95	100		
174	54.7	52.1	78.1
175	3.9	4.0	6.0#

