

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL070219\
 Data File : VL034002.D
 Acq On : 3 Jul 2019 2:33
 Operator : SY/AP
 Sample : K3591-14 L00 0.03
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT3-2019

Manual Integrations
 APPROVED

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 7/3/2019 11:03:40 PM

Quant Time: Jul 03 05:30:10 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL070219AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 03 05:30:10 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	941155	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.26	114	2599767	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.20	117	2560559	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.54	95	2090427	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	3.28	62	4227m	0.056	ppbv	
32) 1,1,1-Trichloroethane	6.59	97	8351m	0.044	ppbv	
35) Carbon Tetrachloride	7.10	117	9148m	0.044	ppbv	
38) Trichloroethene	7.92	130	3222m	0.036	ppbv	
52) Tetrachloroethene	11.33	164	3781m	0.043	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.81	83	9252m	0.043	ppbv	

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

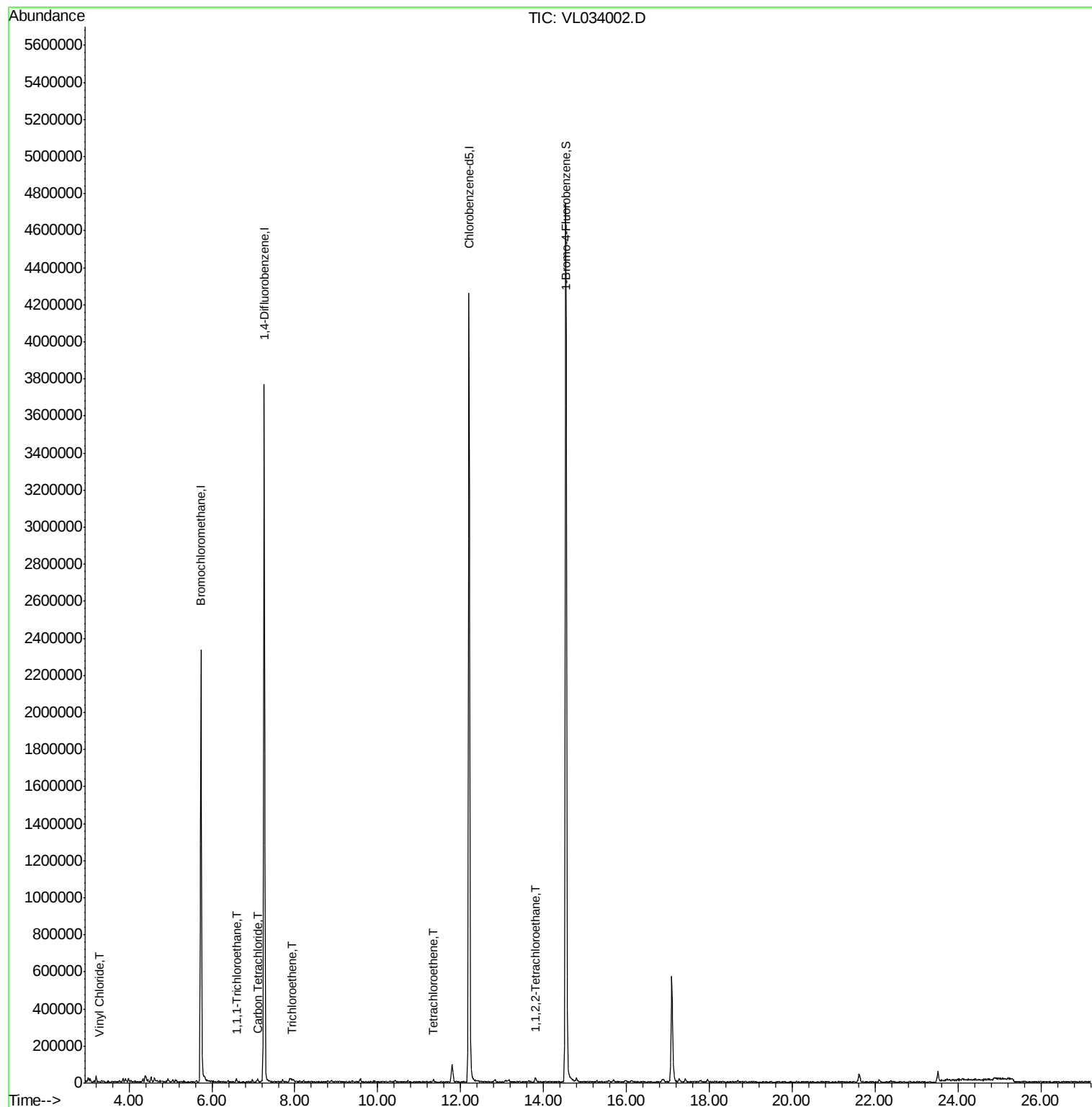
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL070219\
Data File : VL034002.D
Acq On : 3 Jul 2019 2:33
Operator : SY/AP
Sample : K3591-14 L00 0.03
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

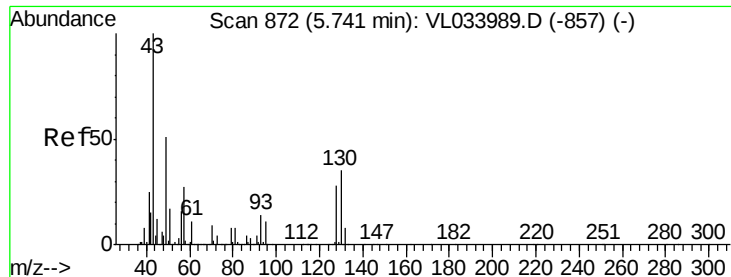
Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT3-2019

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.73 min Scan# 870

Delta R.T. -0.01 min

Lab File: VL034002.D

Acq: 3 Jul 2019 2:33

Instrument :

MSVOA_L

ClientSampleId :

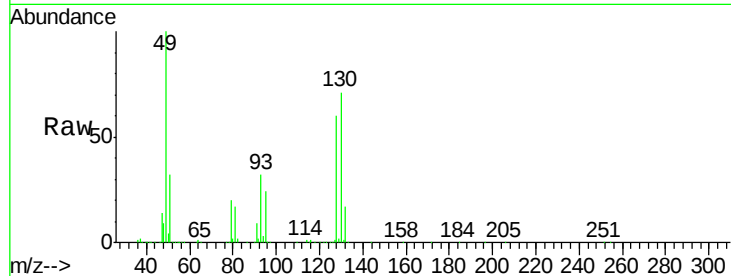
LOQ-AIR-02-QT3-2019

Tot Ion: 49 Resp: 941155
Ion Ratio Lower Upper

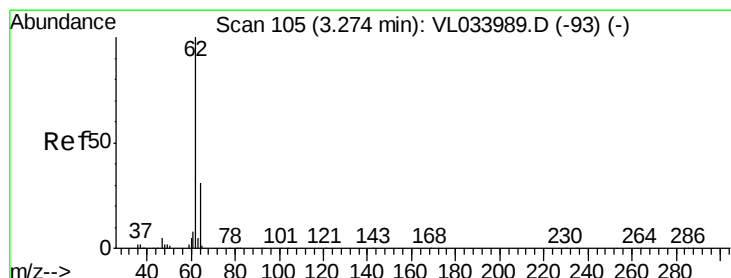
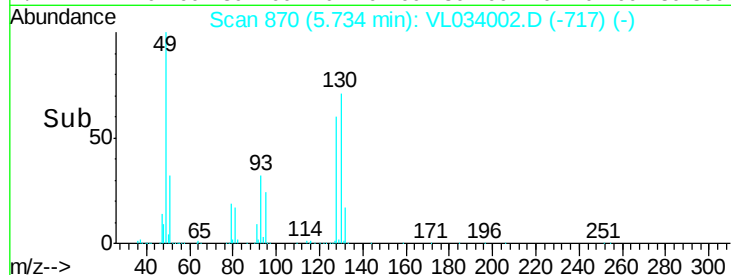
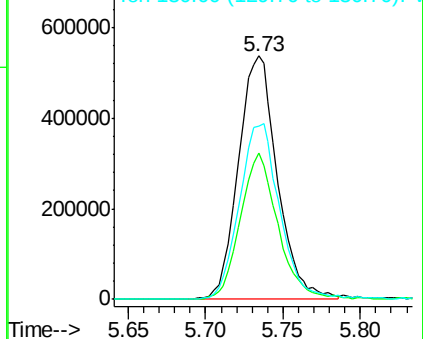
49	100		
128	58.5	27.9	83.6
130	75.7	35.8	107.4

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Abundance Ion 49.10 (48.80 to 49.80): VL0
Ion 128.00 (127.70 to 128.70): V
Ion 130.00 (129.70 to 130.70): V



#5

Vinyl Chloride

Concen: 0.056 ppbv m

RT: 3.28 min Scan# 107

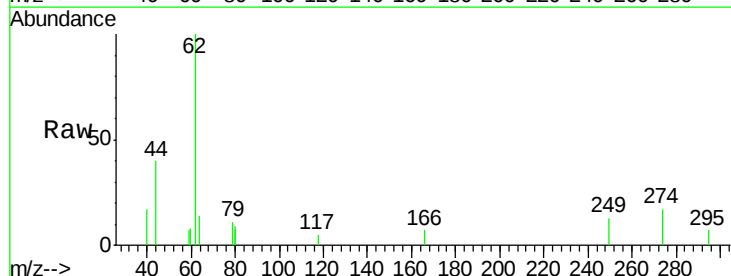
Delta R.T. 0.01 min

Lab File: VL034002.D

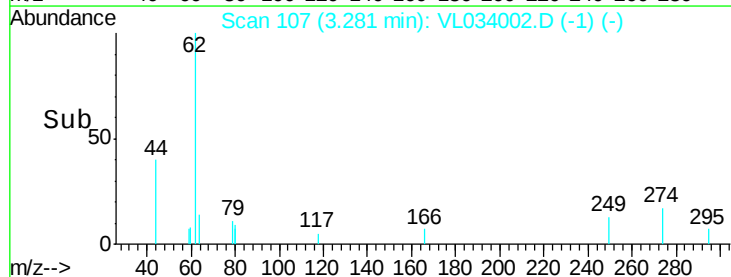
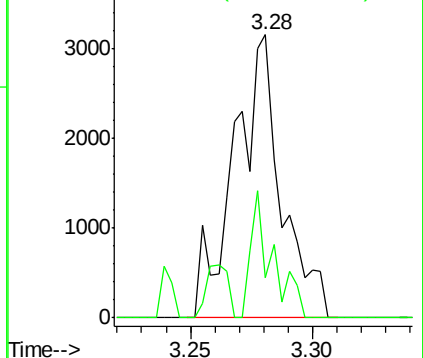
Acq: 3 Jul 2019 2:33

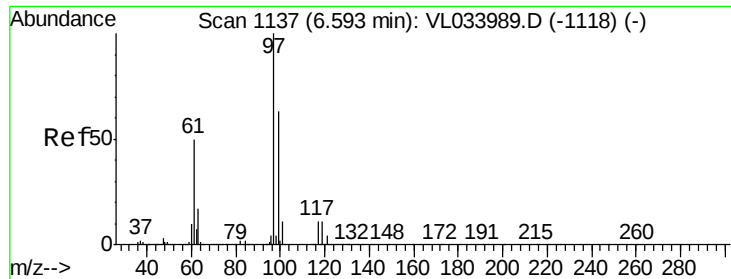
Tgt Ion: 62 Resp: 4227
Ion Ratio Lower Upper

62	100		
64	14.3	24.4	36.6



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: 0.044 ppbv m

RT: 6.59 min Scan# 1136

Delta R.T. -0.00 min

Lab File: VL034002.D

Acq: 3 Jul 2019 2:33

Instrument :

MSVOA_L

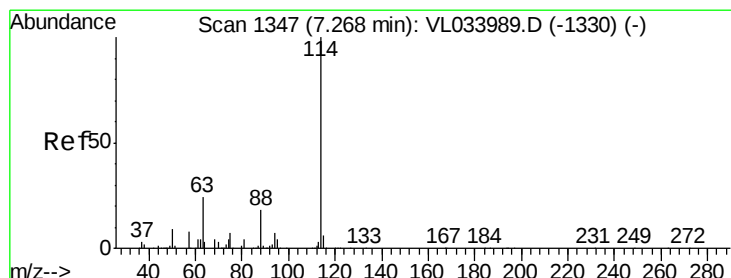
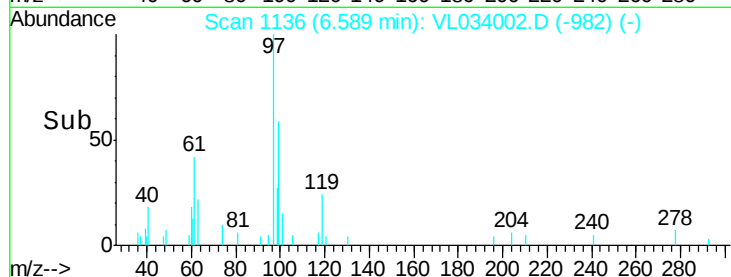
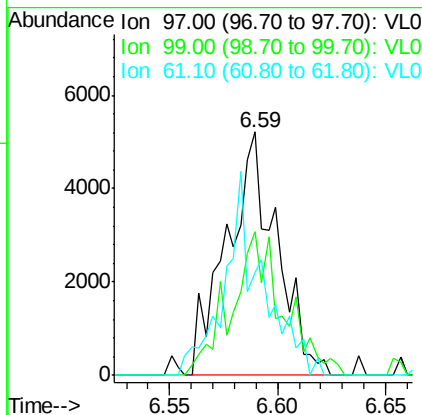
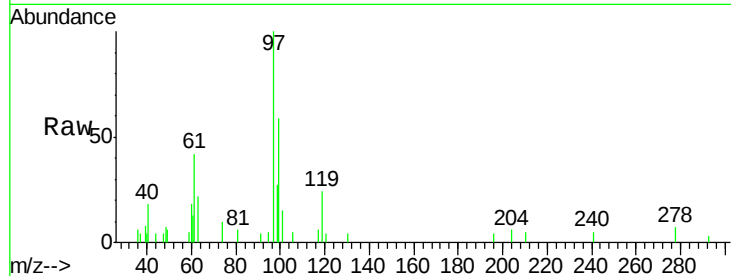
ClientSampleId :

LOQ-AIR-02-QT3-2019

Tot Ion:	97	Resp:	8351
Ion Ratio	Lower	Upper	
97	100		
99	60.9	51.9	77.9
61	62.7	39.8	59.8#

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

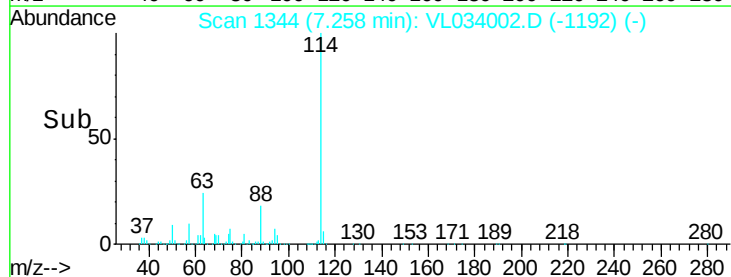
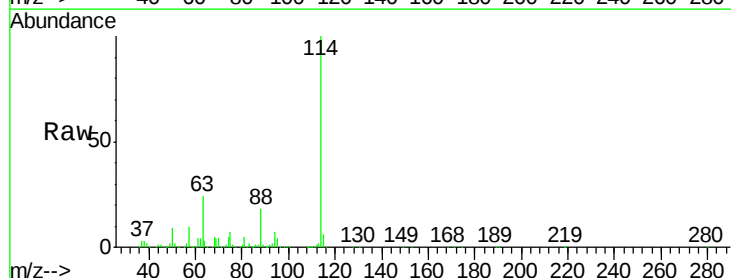
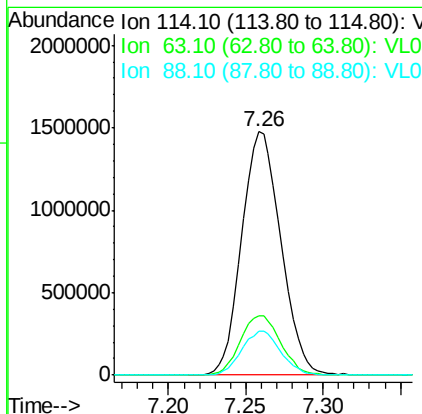
RT: 7.26 min Scan# 1344

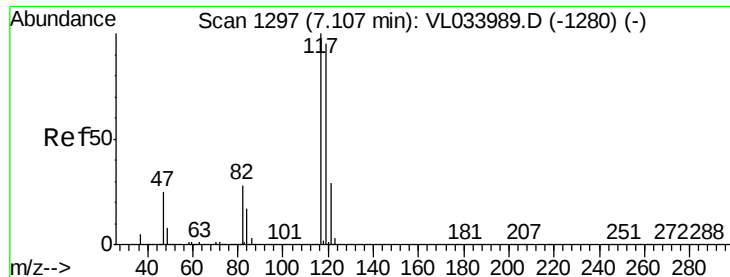
Delta R.T. -0.01 min

Lab File: VL034002.D

Acq: 3 Jul 2019 2:33

Tgt Ion:	114	Resp:	2599767
Ion Ratio	Lower	Upper	
114	100		
63	25.3	20.2	30.2
88	18.1	14.1	21.1





#35

Carbon Tetrachloride

Concen: 0.044 ppbv m

RT: 7.10 min Scan# 1295

Delta R.T. -0.01 min

Lab File: VL034002.D

Acq: 3 Jul 2019 2:33

Instrument :

MSVOA_L

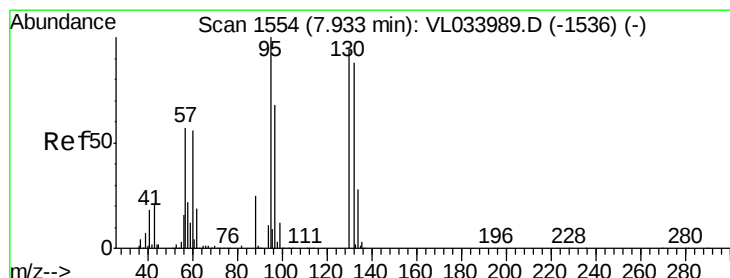
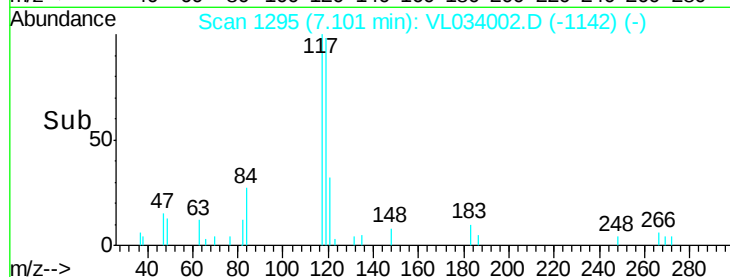
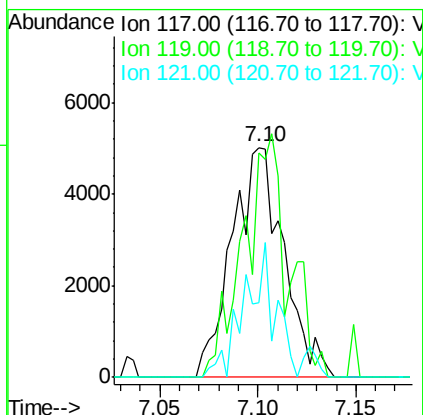
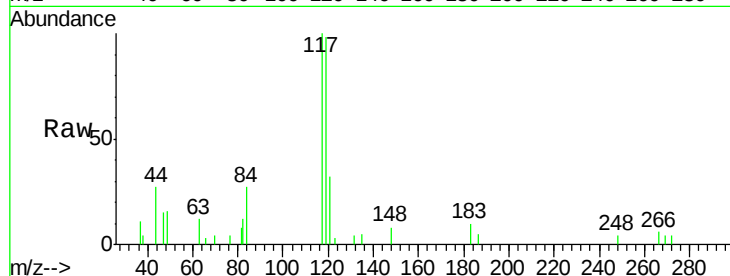
ClientSampleId :

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Tot Ion:	117	Resp:	9148
Ion Ratio	Lower	Upper	
117	100		
119	97.7	75.8	113.6
121	32.4	23.4	35.2

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#38

Trichloroethene

Concen: 0.036 ppbv m

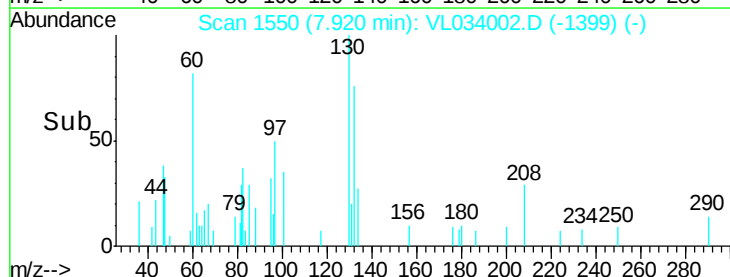
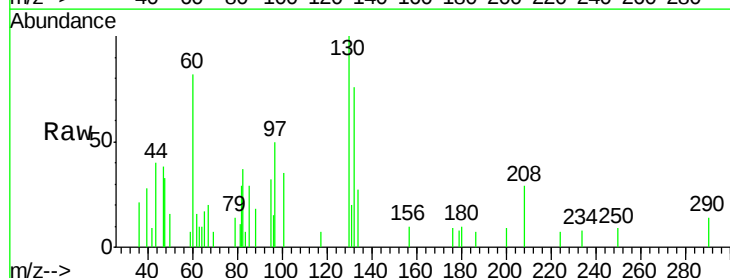
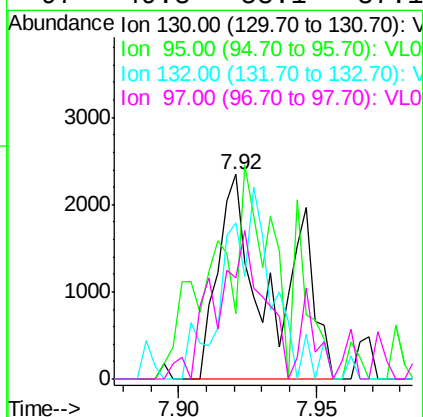
RT: 7.92 min Scan# 1550

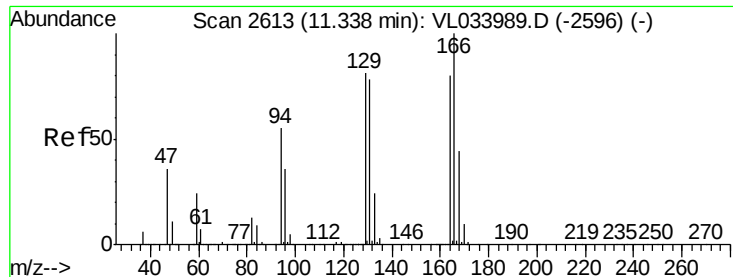
Delta R.T. -0.01 min

Lab File: VL034002.D

Acq: 3 Jul 2019 2:33

Tgt Ion:	130	Resp:	3222
Ion Ratio	Lower	Upper	
130	100		
95	32.1	85.5	128.3#
132	76.1	75.1	112.7
97	49.8	58.1	87.1#





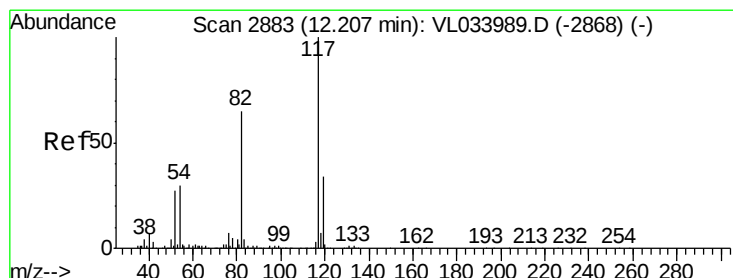
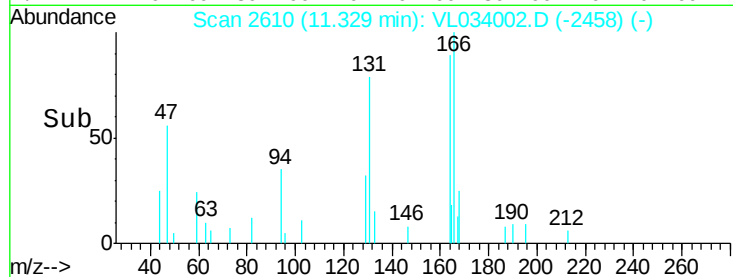
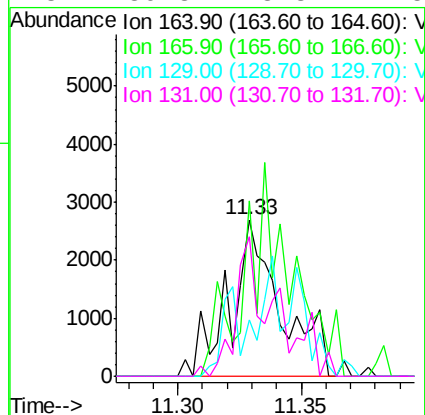
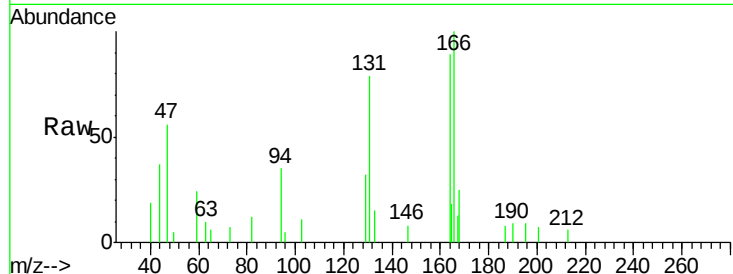
#52
Tetrachloroethene
Concen: 0.043 ppbv m
RT: 11.33 min Scan# 2610
Delta R.T. -0.01 min
Lab File: VL034002.D
Acq: 3 Jul 2019 2:33

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT3-2019

Tot Ion	Ratio	Lower	Upper
164	100		
166	112.3	100.2	150.2
129	35.7	81.0	121.6
131	89.3	78.3	117.5

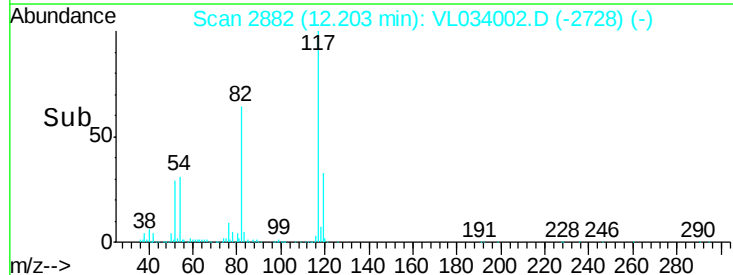
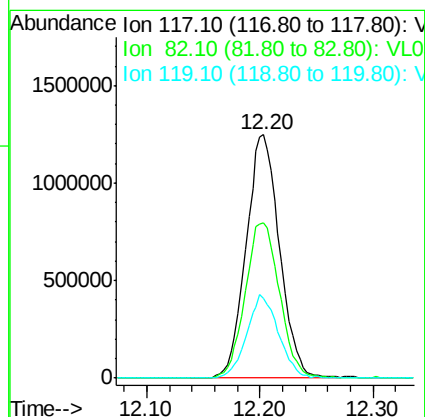
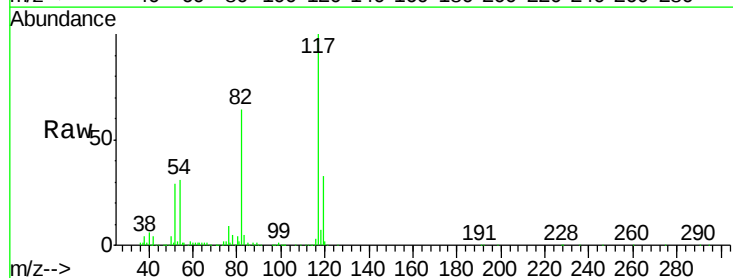
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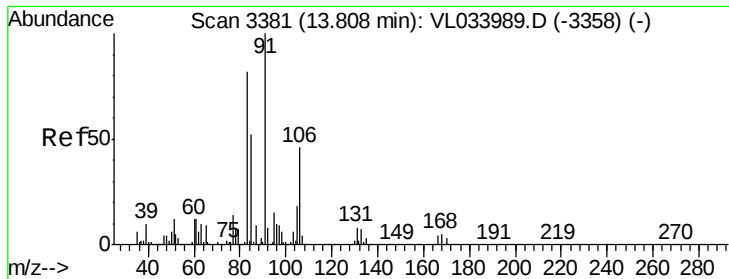
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#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.20 min Scan# 2882
Delta R.T. -0.00 min
Lab File: VL034002.D
Acq: 3 Jul 2019 2:33

Tgt Ion	Ratio	Lower	Upper
117	100		
82	66.0	50.8	76.2
119	32.8	24.0	36.0





#63

1,1,2,2-Tetrachloroethane

Concen: 0.043 ppbv m

RT: 13.81 min Scan# 3381

Delta R.T. -0.00 min

Lab File: VL034002.D

Acq: 3 Jul 2019 2:33

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT3-2019

Tot Ion: 83 Resp: 9252
Ion Ratio Lower Upper

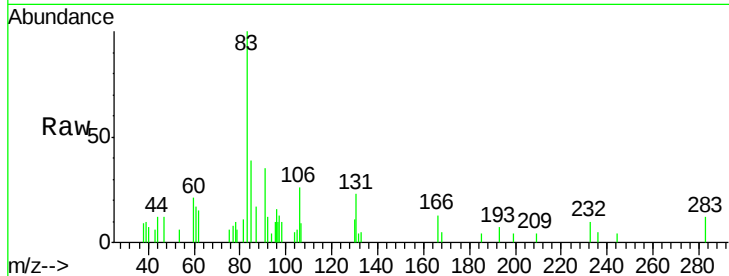
83 100

131 17.3 5.0 14.9#

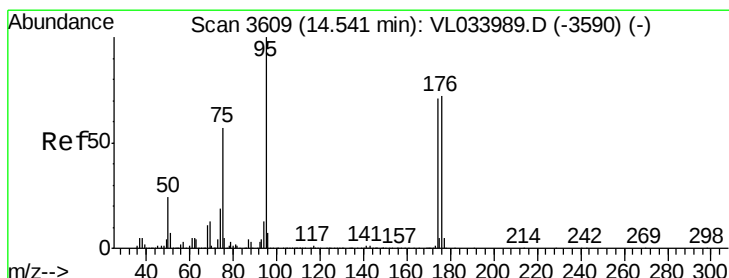
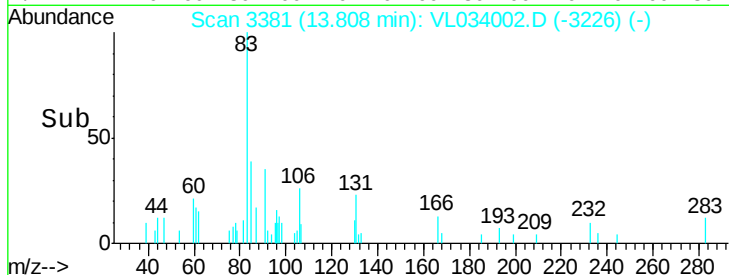
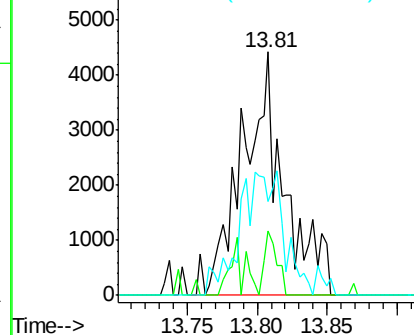
85 0.0 32.8 98.3#

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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: 9.572 ppbv

RT: 14.54 min Scan# 3608

Delta R.T. -0.00 min

Lab File: VL034002.D

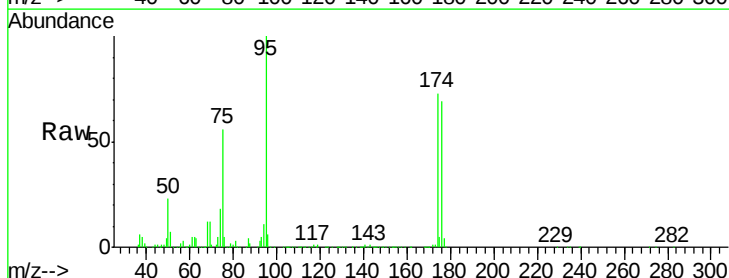
Acq: 3 Jul 2019 2:33

Tgt Ion: 95 Resp: 2090427
Ion Ratio Lower Upper

95 100

174 73.9 60.5 90.7

175 5.1 4.0 6.0



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

