

Data Path : Z:\voasrv\HPCHEM1\MSVOA L\Data\VL060719\
 Data File : VL033879.D
 Acq On : 7 Jun 2019 5:13
 Operator : SY/AP
 Sample : VSTDICC0.03
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03

Manual Integrations
 APPROVED

MMDadoda
 6/11/2019 9:18:36 AM

Quant Time: Jun 07 06:35:06 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL060719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 07 06:35:06 2019
 QLast Update : Fri Jun 07 05:42:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.75	49	887343	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	2034711	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.22	117	2184398	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.56	95	1794473	10.15	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.29	62	1588m	0.027	ppbv	
32) 1,1,1-Trichloroethane	6.61	97	3806m	0.022	ppbv	
35) Carbon Tetrachloride	7.12	117	4173m	0.026	ppbv	
38) Trichloroethene	7.94	130	1295m	0.019	ppbv	
52) Tetrachloroethene	11.36	164	1115m	0.017	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.83	83	4792m	0.026	ppbv	

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

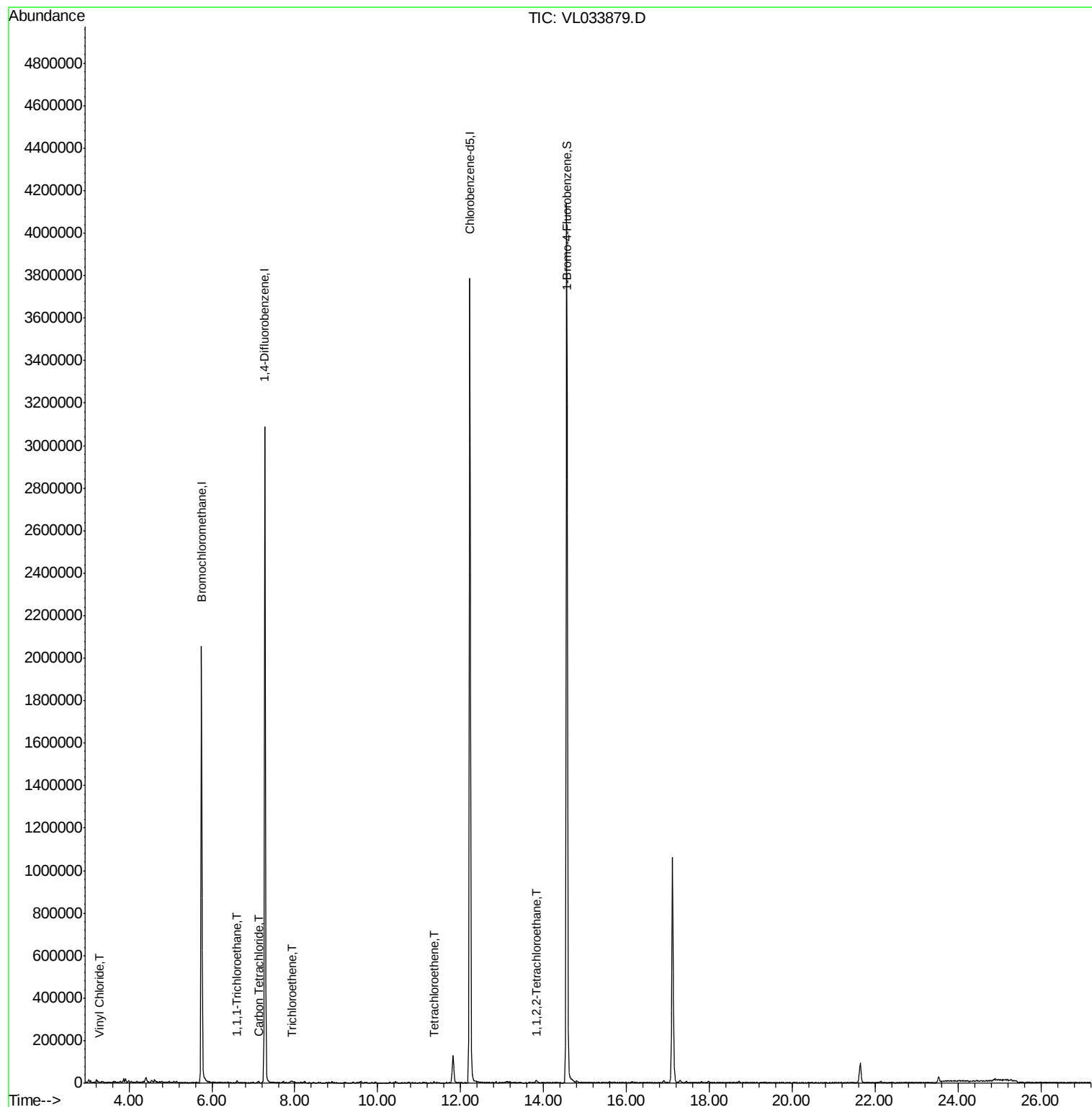
Data Path : Z:\voasrv\HPCHEM1\MSVOA L\Data\VL060719\
Data File : VL033879.D
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Operator : SY/AP
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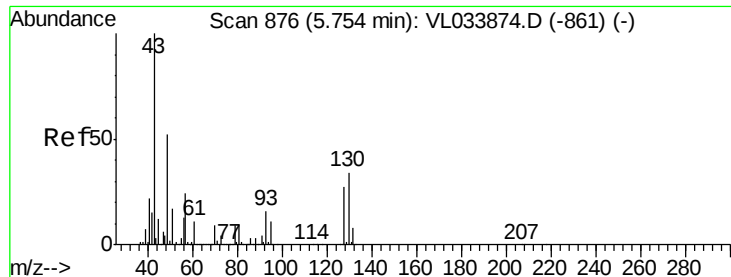
Instrument :
MSVOA_L
ClientSampleId :
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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL060719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun
QLast Update : Fri Jun 07 05:42:58 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.75 min Scan# 874

Delta R.T. -0.01 min

Lab File: VL033879.D

Acq: 7 Jun 2019 5:13

Instrument :

MSVOA_L

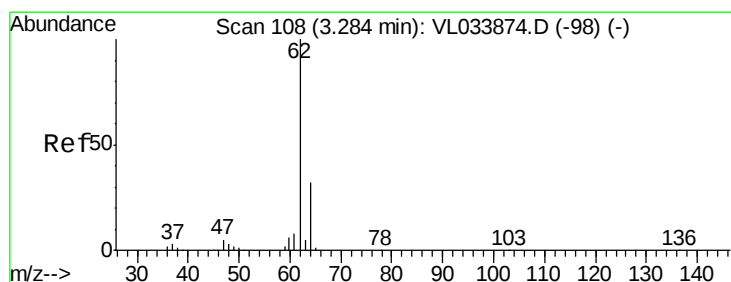
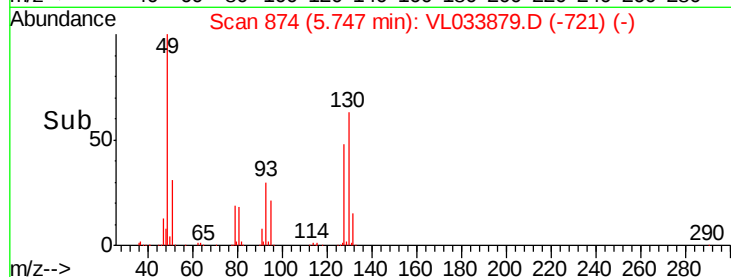
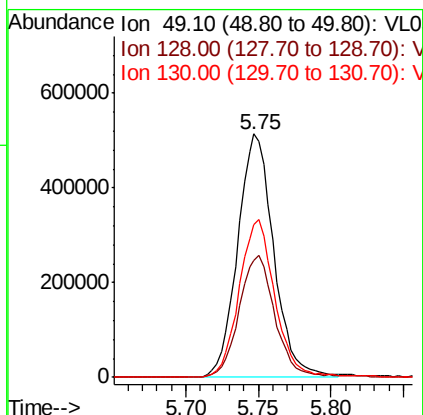
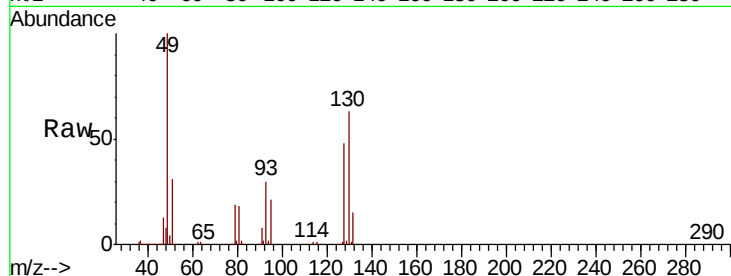
ClientSampleId :

VSTDIC0.03

Tot Ion:	49	Resp:	887343
Ion	Ratio	Lower	Upper
49	100		
128	50.3	25.5	76.5
130	64.7	32.5	97.4

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#5

Vinyl Chloride

Concen: 0.027 ppbv m

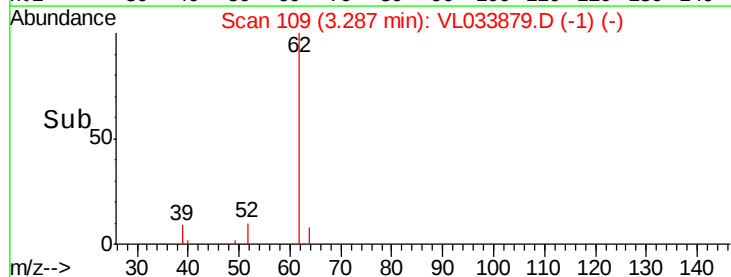
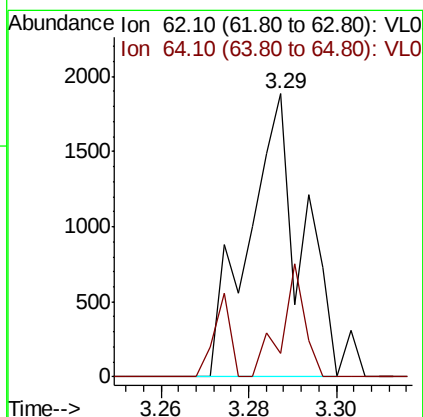
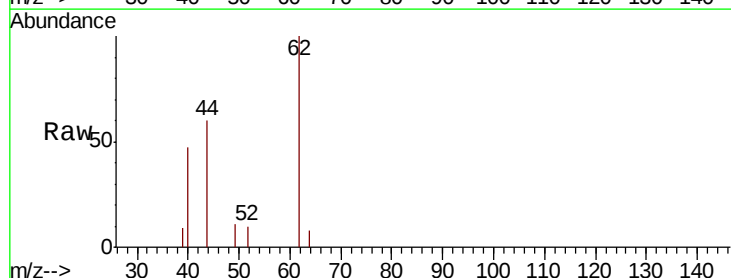
RT: 3.29 min Scan# 109

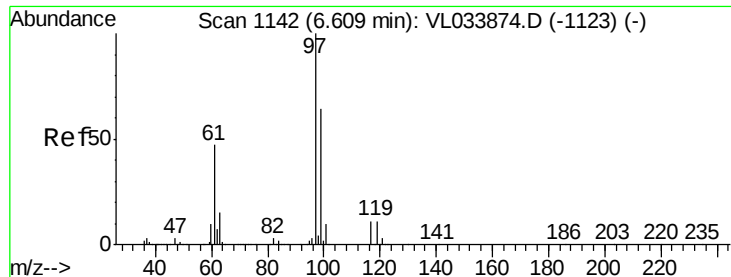
Delta R.T. 0.00 min

Lab File: VL033879.D

Acq: 7 Jun 2019 5:13

Tgt Ion:	62	Resp:	1588
Ion	Ratio	Lower	Upper
62	100		
64	8.4	25.2	37.8#





#32

1,1,1-Trichloroethane

Concen: 0.022 ppbv m

RT: 6.61 min Scan# 1141

Delta R.T. -0.00 min

Lab File: VL033879.D

Acq: 7 Jun 2019 5:13

Instrument :

MSVOA_L

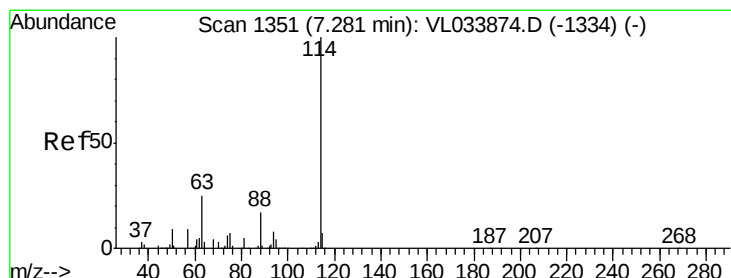
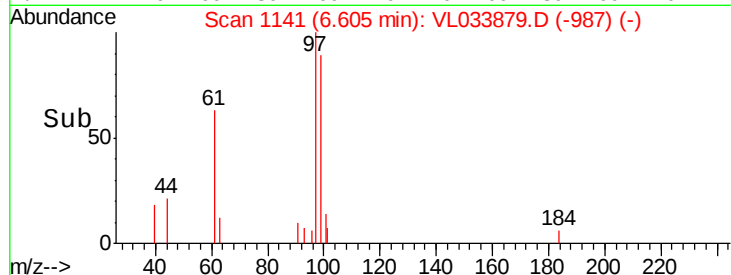
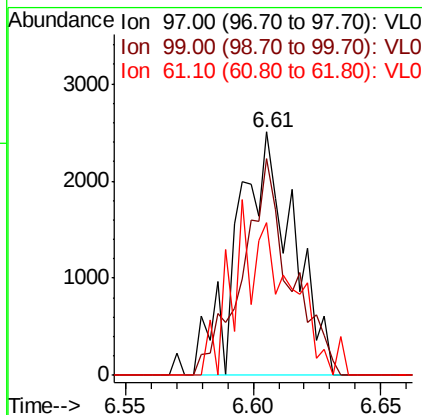
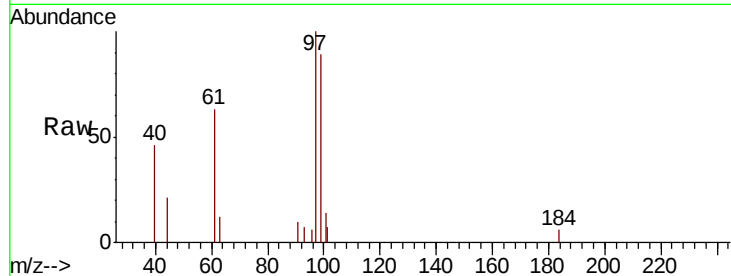
ClientSampleId :

VSTDIC0.03

Tot Ion:	97	Resp:	3806
Ion	Ratio	Lower	Upper
97	100		
99	76.3	51.7	77.5
61	0.0	37.7	56.5#

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

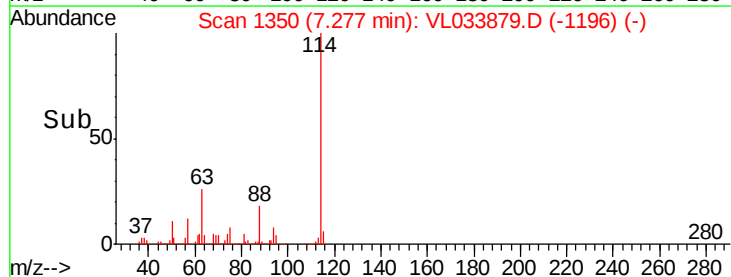
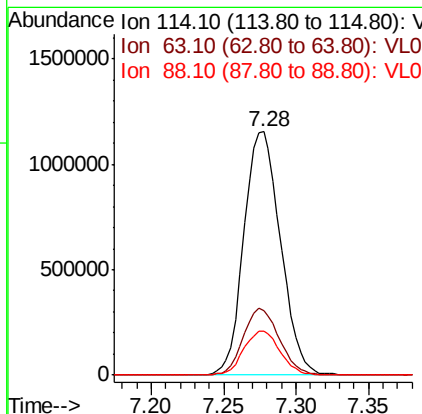
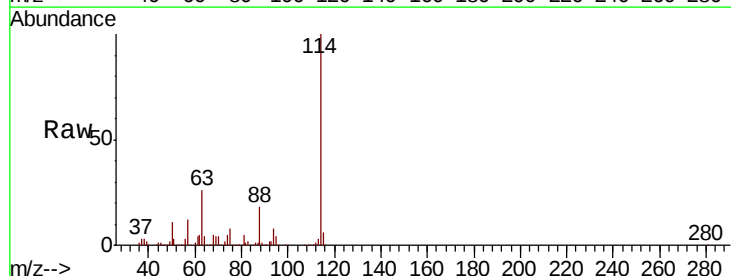
RT: 7.28 min Scan# 1350

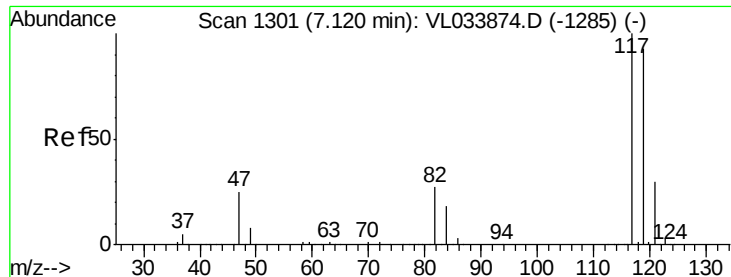
Delta R.T. -0.00 min

Lab File: VL033879.D

Acq: 7 Jun 2019 5:13

Tgt Ion:	114	Resp:	2034711
Ion	Ratio	Lower	Upper
114	100		
63	27.0	21.1	31.7
88	18.1	14.2	21.4





#35

Carbon Tetrachloride

Concen: 0.026 ppbv m

RT: 7.12 min Scan# 1300

Delta R.T. -0.00 min

Lab File: VL033879.D

Acq: 7 Jun 2019 5:13

Instrument :

MSVOA_L

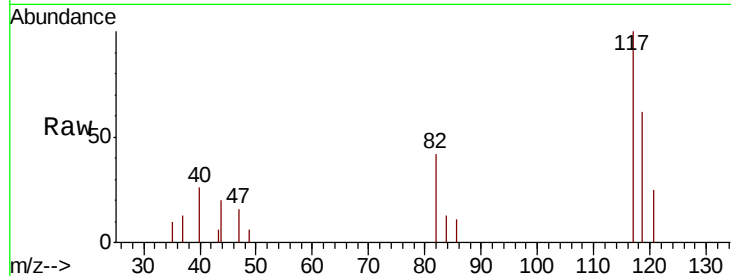
ClientSampleId :

VSTDIC0.03

Tot Ion	Ratio	Lower	Upper
117	100		
119	62.1	74.6	111.8#
121	25.0	24.0	36.0

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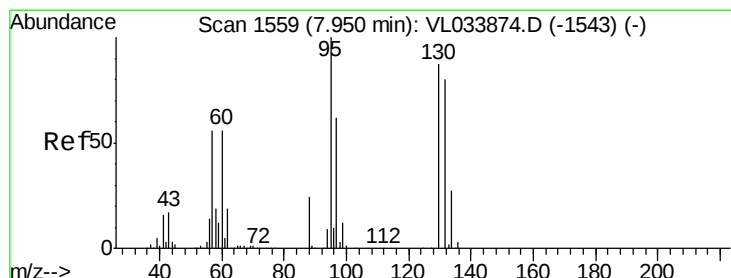
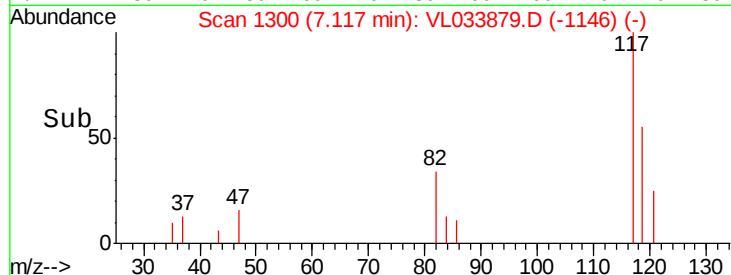
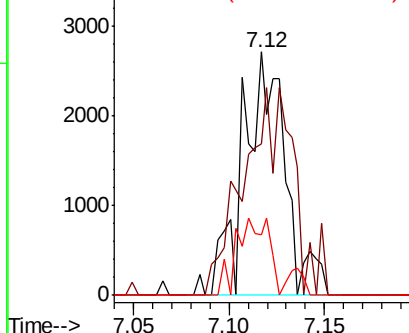


Abundance

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: 0.019 ppbv m

RT: 7.94 min Scan# 1556

Delta R.T. -0.01 min

Lab File: VL033879.D

Acq: 7 Jun 2019 5:13

Tgt Ion	Ratio	Lower	Upper
130	100		
95	66.9	92.0	138.0#
132	63.3	73.8	110.8#
97	46.7	57.2	85.8#

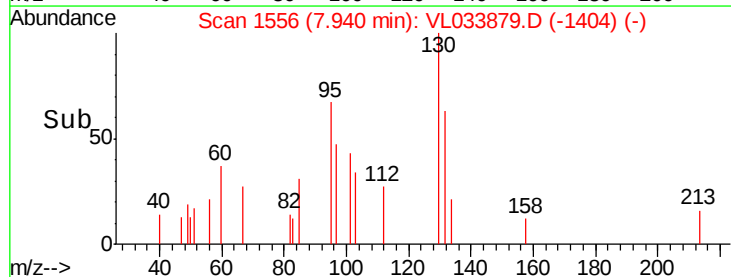
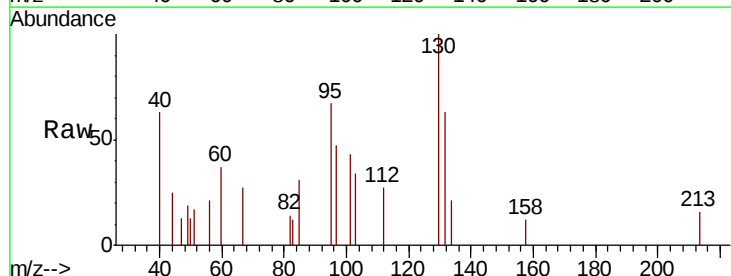
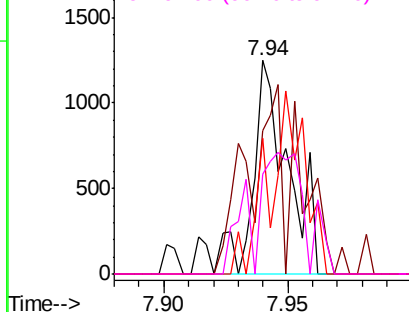
Abundance

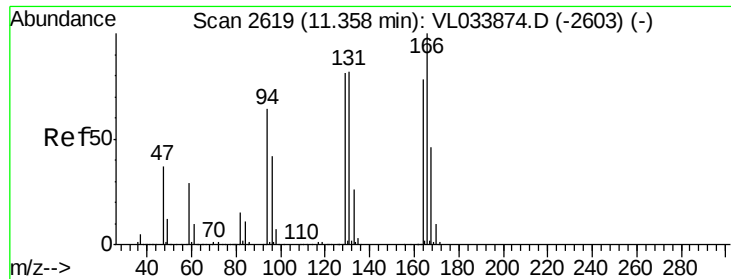
Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): V

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): V





#52

Tetrachloroethene

Concen: 0.017 ppbv m

RT: 11.36 min Scan# 2619

Delta R.T. -0.00 min

Lab File: VL033879.D

Acq: 7 Jun 2019 5:13

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

Tot Ion:164 Resp: 1115

Ion Ratio Lower Upper

164 100

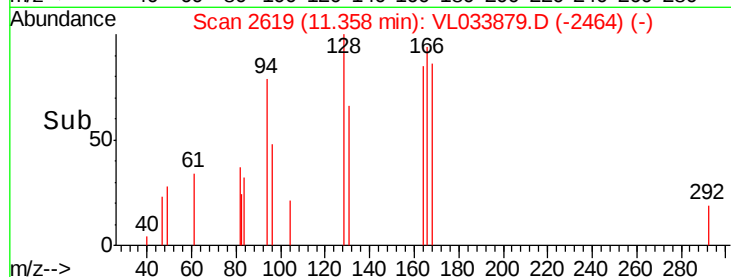
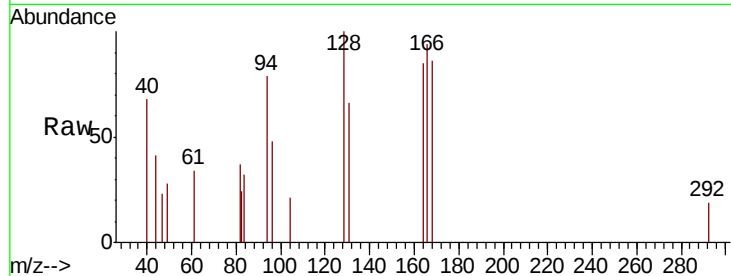
166 110.6 103.1 154.7

129 0.0 83.9 125.9#

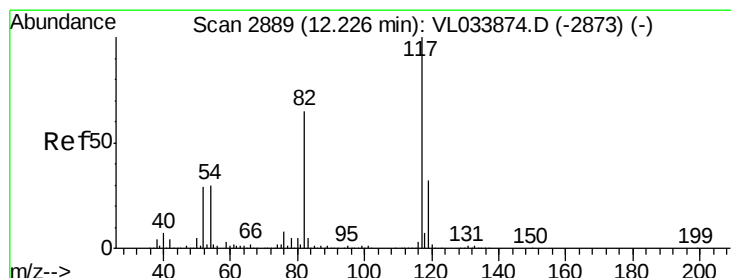
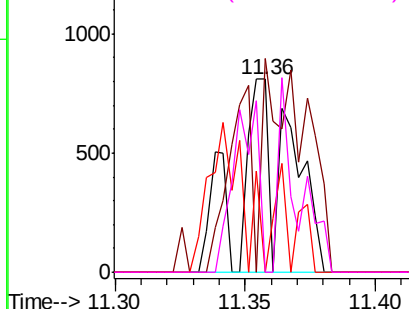
131 0.0 85.1 127.7#

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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: 10.000 ppbv

RT: 12.22 min Scan# 2888

Delta R.T. -0.00 min

Lab File: VL033879.D

Acq: 7 Jun 2019 5:13

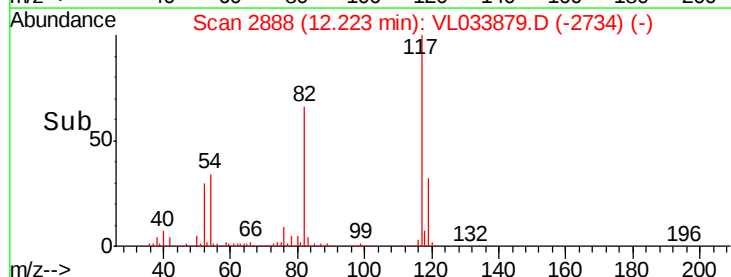
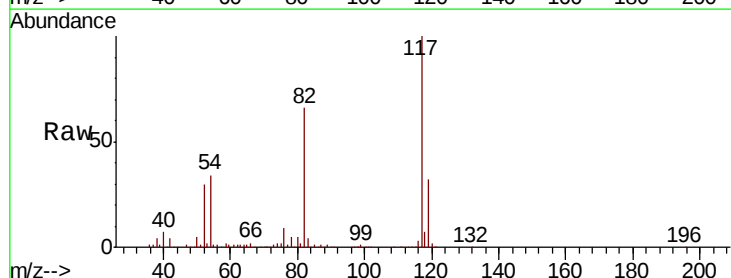
Tgt Ion:117 Resp: 2184398

Ion Ratio Lower Upper

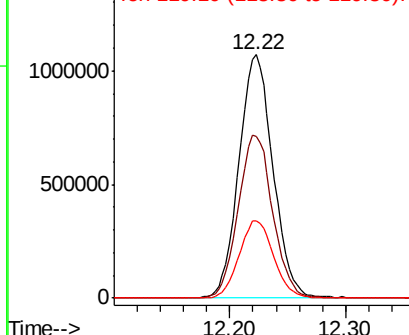
117 100

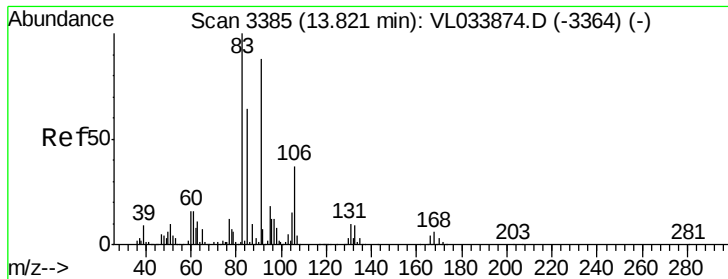
82 68.0 50.2 75.2

119 32.4 24.8 37.2



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: 0.026 ppbv m

RT: 13.83 min Scan# 3388

Delta R.T. 0.01 min

Lab File: VL033879.D

Acq: 7 Jun 2019 5:13

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

Tot Ion: 83 Resp: 4792

Ion Ratio Lower Upper

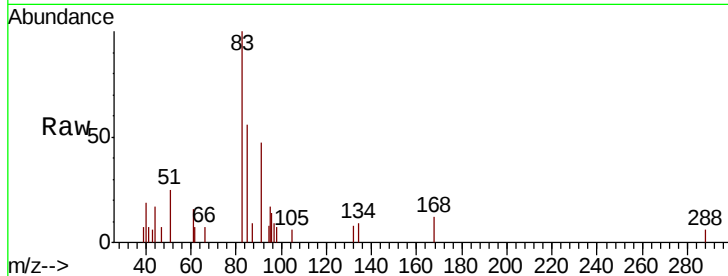
83 100

131 0.0 4.8 14.4#

85 0.0 32.1 96.3#

Manual Integrations
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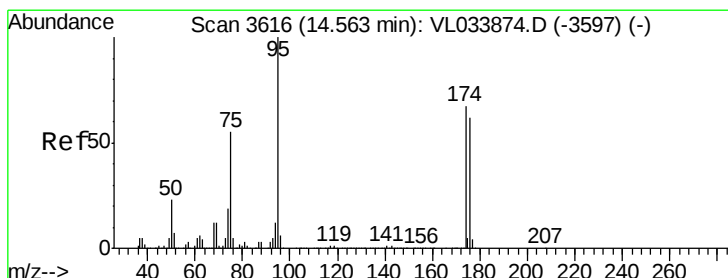
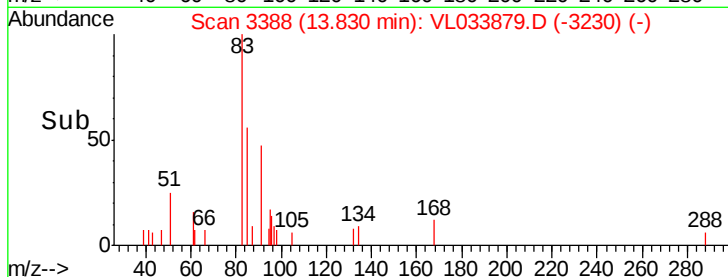
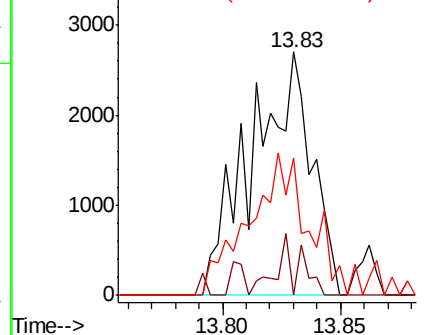
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Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VL0



#68

1-Bromo-4-Fluorobenzene

Concen: 10.154 ppbv

RT: 14.56 min Scan# 3615

Delta R.T. -0.00 min

Lab File: VL033879.D

Acq: 7 Jun 2019 5:13

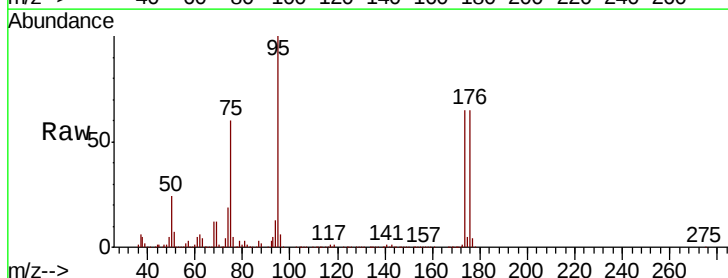
Tgt Ion: 95 Resp: 1794473

Ion Ratio Lower Upper

95 100

174 66.1 54.0 81.0

175 4.9 3.8 5.8



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

