

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL080519\
 Data File : VL034090.D
 Acq On : 5 Aug 2019 15:16
 Operator : SY/AP
 Sample : VSTDICC0.1
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.1

Manual Integrations
 APPROVED

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 8/8/2019 12:41:25 PM

Quant Time: Aug 05 16:04:18 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL080519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug 05 2019
 QLast Update : Mon Aug 05 13:52:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.71	49	1204758	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.24	114	2397955	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.18	117	2451170	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.52	95	2060136	9.51	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.26	62	8355m	0.103	ppbv	
32) 1,1,1-Trichloroethane	6.56	97	19197m	0.079	ppbv	
35) Carbon Tetrachloride	7.08	117	17736	0.092	ppbv	95
38) Trichloroethene	7.91	130	11128m	0.144	ppbv	
52) Tetrachloroethene	11.33	164	11117m	0.167	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.77	83	24608m	0.108	ppbv	

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

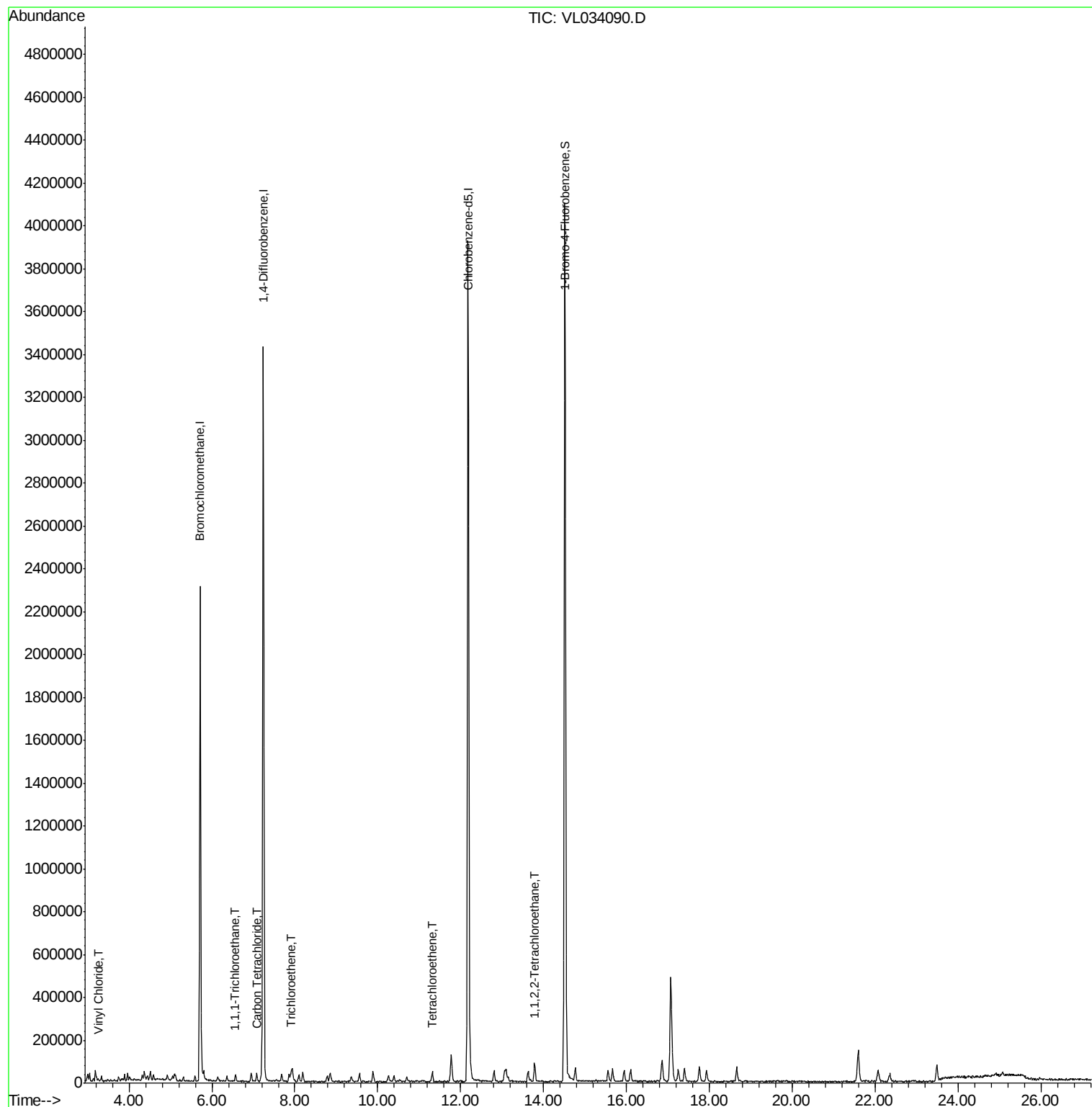
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL080519\
Data File : VL034090.D
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Operator : SY/AP
Sample : VSTDIC0.1
Misc : 400ml/MSVOA L
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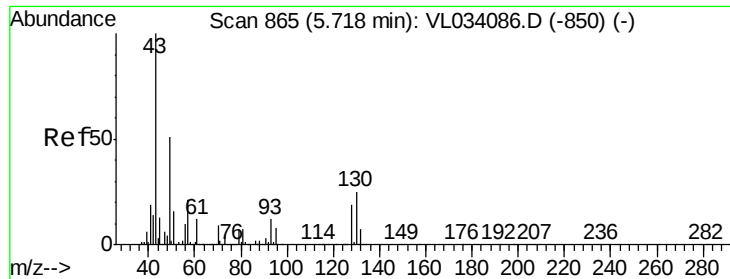
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL080519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug
QLast Update : Mon Aug 05 13:52:58 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.71 min Scan# 864

Delta R.T. -0.00 min

Lab File: VL034090.D

Acq: 5 Aug 2019 15:16

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tot Ion: 49 Resp: 1204758

Ion Ratio Lower Upper

49 100

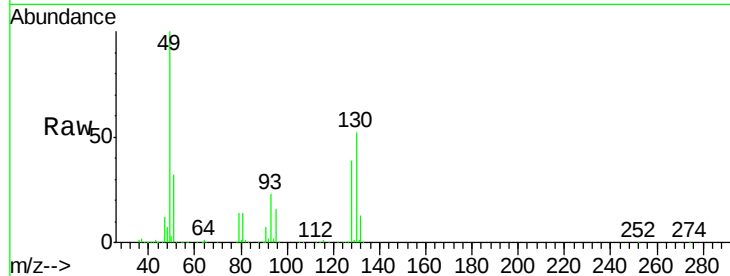
128 39.7 19.5 58.5

130 51.2 25.4 76.0

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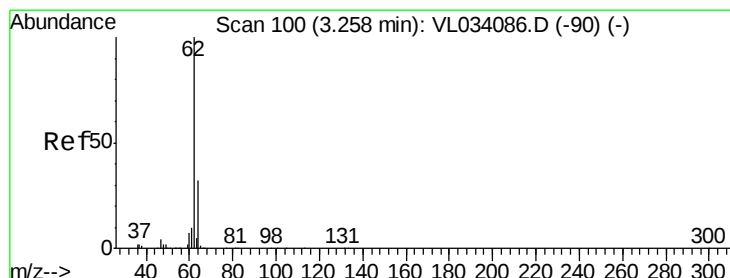
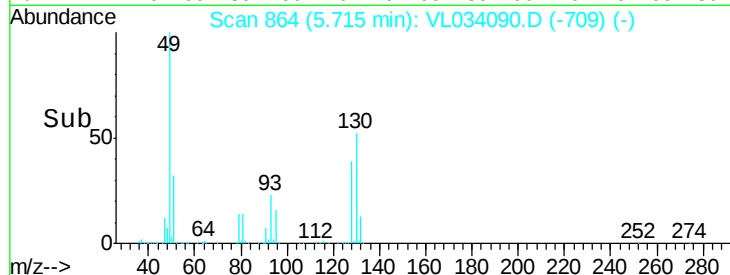
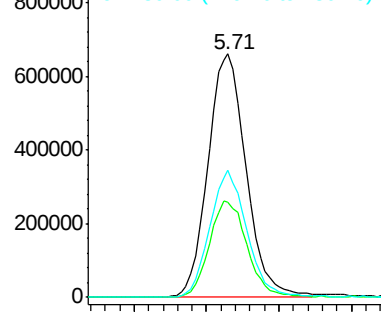
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#5

Vinyl Chloride

Concen: 0.103 ppbv m

RT: 3.26 min Scan# 102

Delta R.T. 0.01 min

Lab File: VL034090.D

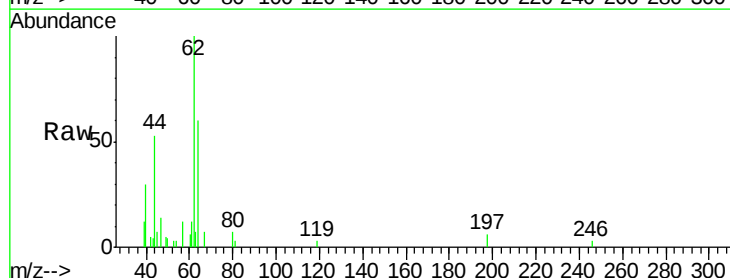
Acq: 5 Aug 2019 15:16

Tgt Ion: 62 Resp: 8355

Ion Ratio Lower Upper

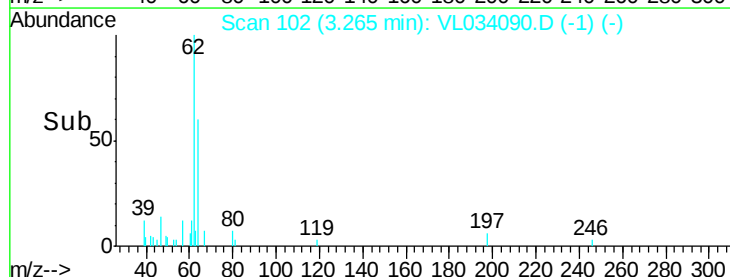
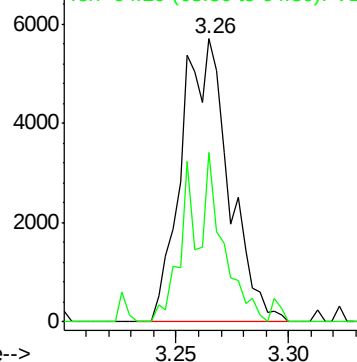
62 100

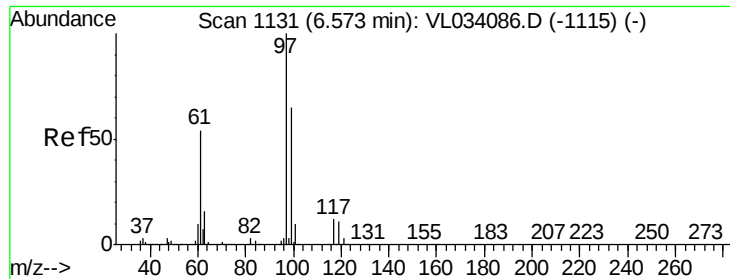
64 59.8 25.8 38.6#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0





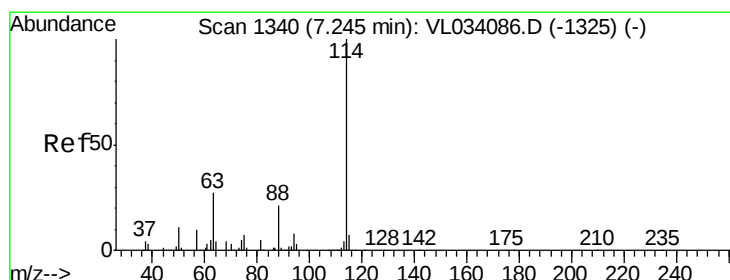
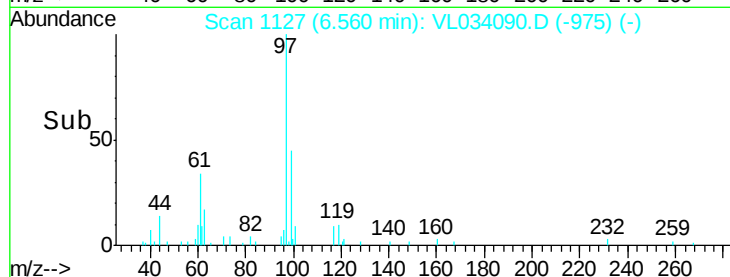
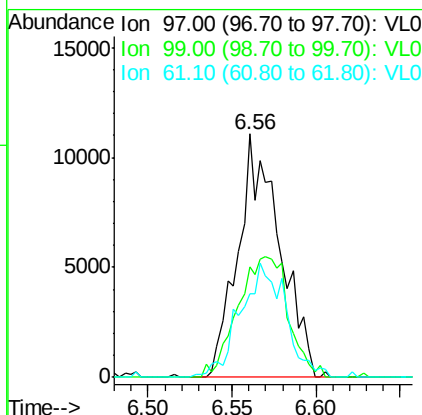
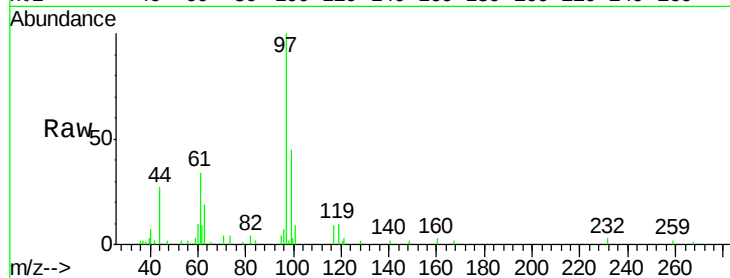
#32
 1,1,1-Trichloroethane
 Concen: 0.079 ppbv m
 RT: 6.56 min Scan# 1127
 Delta R.T. -0.01 min
 Lab File: VL034090.D
 Acq: 5 Aug 2019 15:16

Instrument :
 MSVOA_L
 ClientSampled :
 VSTDIC0.1

Tot Ion	Ratio	Resp	Lower	Upper
97	100	19197		
99	59.6		52.2	78.4
61	50.7		42.0	63.0

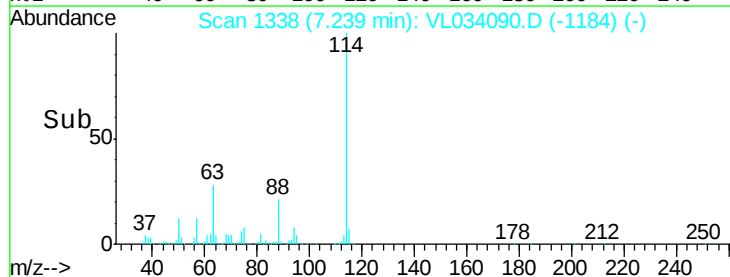
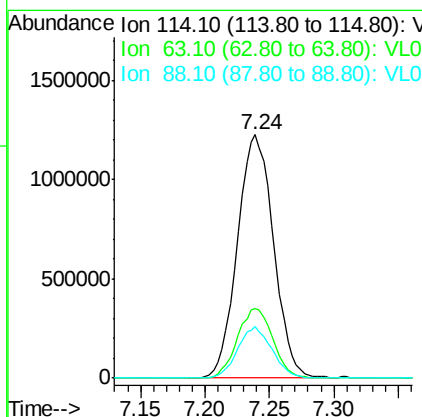
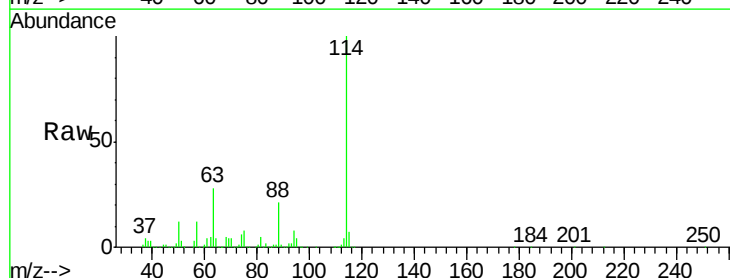
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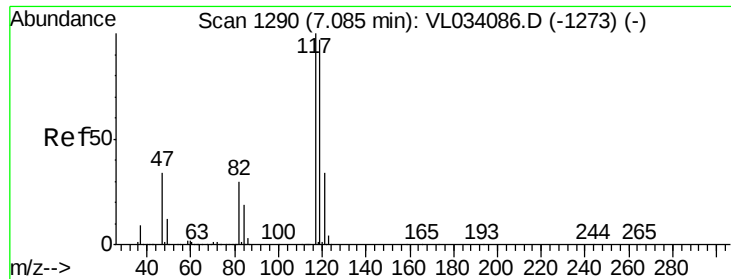
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#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.24 min Scan# 1338
 Delta R.T. -0.01 min
 Lab File: VL034090.D
 Acq: 5 Aug 2019 15:16

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	2397955		
63	28.3		22.5	33.7
88	20.1		15.7	23.5





#35

Carbon Tetrachloride

Concen: 0.092 ppbv

RT: 7.08 min Scan# 1289

Delta R.T. -0.00 min

Lab File: VL034090.D

Acq: 5 Aug 2019 15:16

Instrument :

MSVOA_L

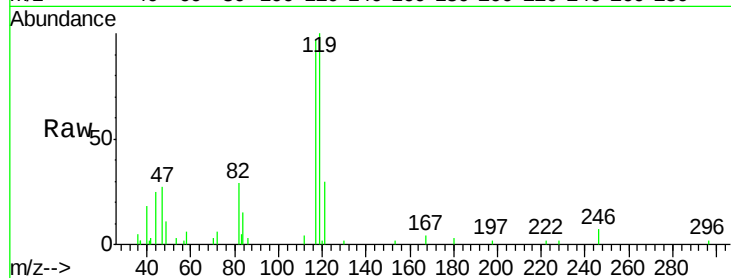
ClientSampleId :

VSTDIC0.1

Tot Ion:117	Resp:	17736
Ion Ratio	Lower	Upper
117	100	
119	101.0	77.8 116.6
121	29.6	27.4 41.2

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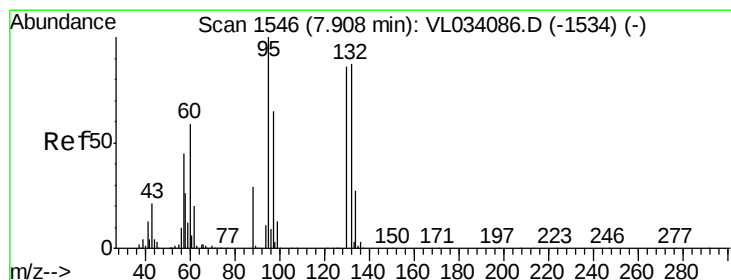
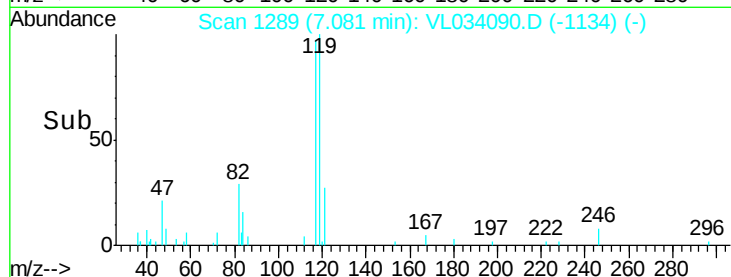
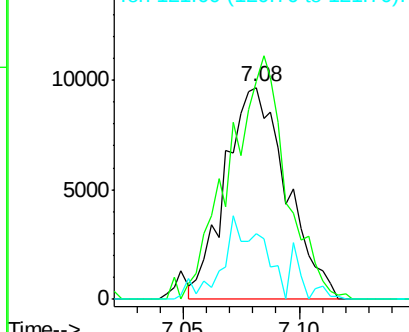


Abundance

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: 0.144 ppbv m

RT: 7.91 min Scan# 1546

Delta R.T. 0.00 min

Lab File: VL034090.D

Acq: 5 Aug 2019 15:16

Tgt Ion:130	Resp:	11128
Ion Ratio	Lower	Upper
130	100	
95	85.6	92.1 138.1#
132	58.3	79.7 119.5#
97	61.8	60.2 90.4

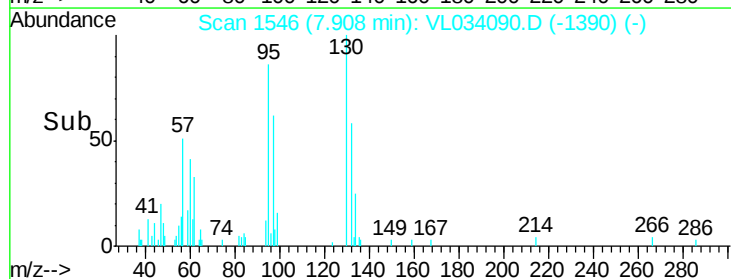
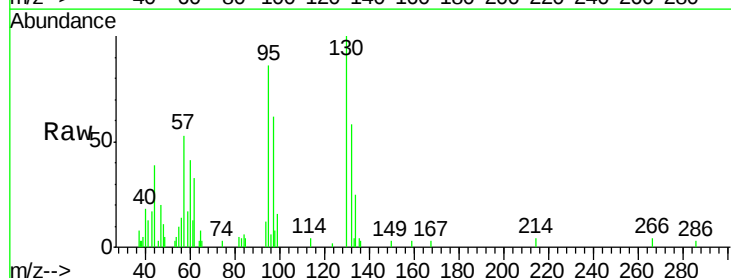
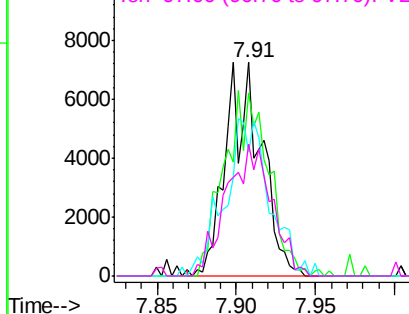
Abundance

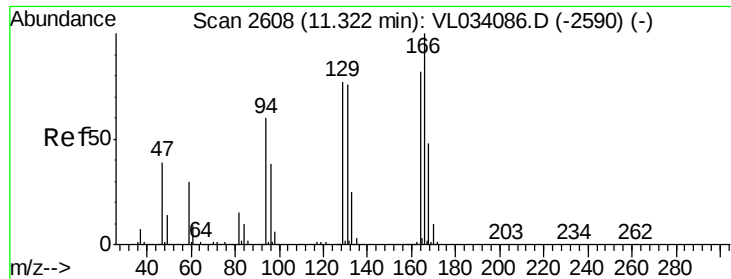
Ion 130.00 (129.70 to 130.70): V

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: 0.167 ppbv m

RT: 11.33 min Scan# 2610

Delta R.T. 0.01 min

Lab File: VL034090.D

Acq: 5 Aug 2019 15:16

Instrument :

MSVOA_L

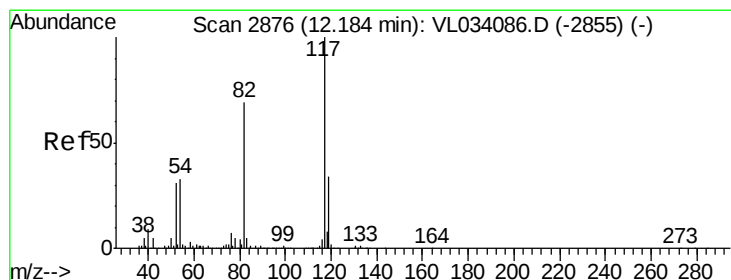
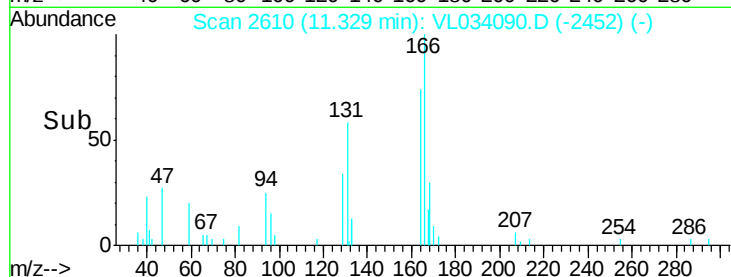
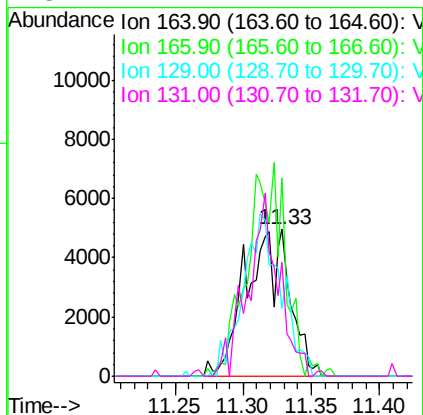
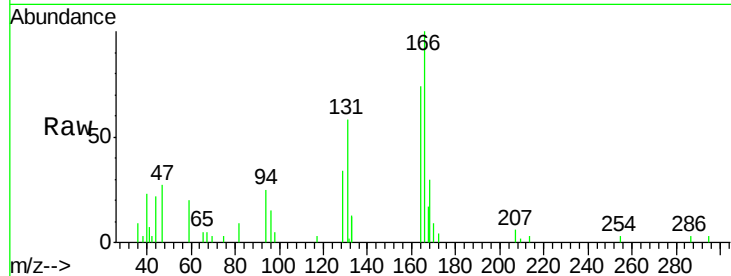
ClientSampleId :

VSTDIC0.1

Tot Ion:	164	Resp:	11117
Ion	Ratio	Lower	Upper
164	100		
166	134.6	96.8	145.2
129	45.8	74.9	112.3#
131	77.7	74.2	111.2

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

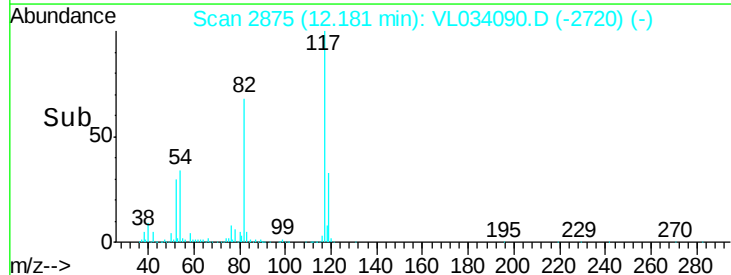
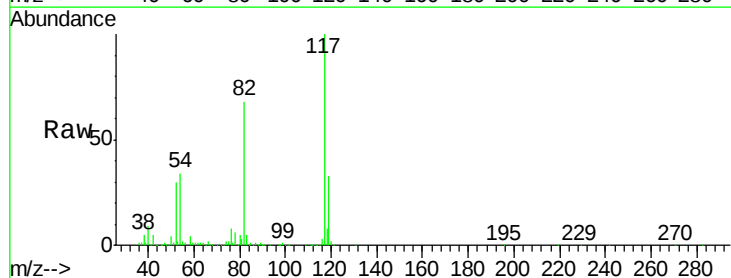
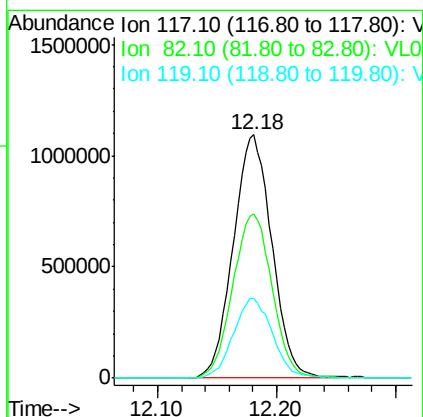
RT: 12.18 min Scan# 2875

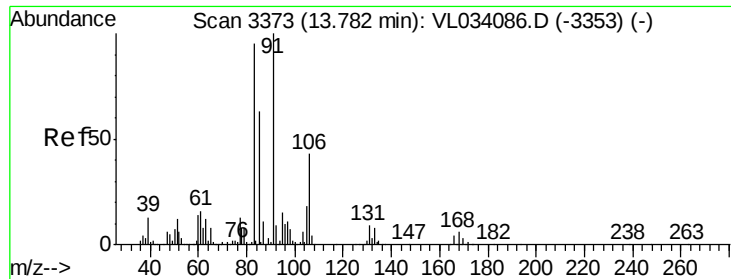
Delta R.T. -0.00 min

Lab File: VL034090.D

Acq: 5 Aug 2019 15:16

Tgt Ion:	117	Resp:	2451170
Ion	Ratio	Lower	Upper
117	100		
82	69.1	52.2	78.4
119	33.4	44.8	67.2#





#63

1,1,2,2-Tetrachloroethane

Concen: 0.108 ppbv

RT: 13.77 min Scan# 3370

Delta R.T. -0.01 min

Lab File: VL034090.D

Acq: 5 Aug 2019 15:16

Instrument :

MSVOA_L

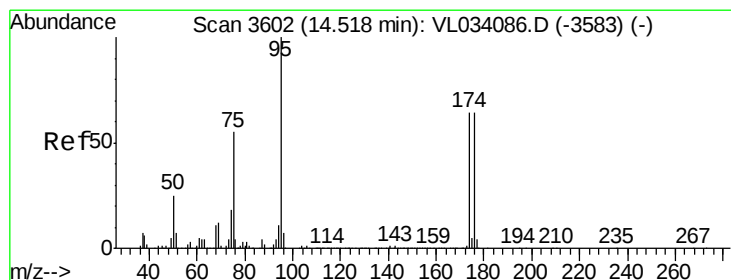
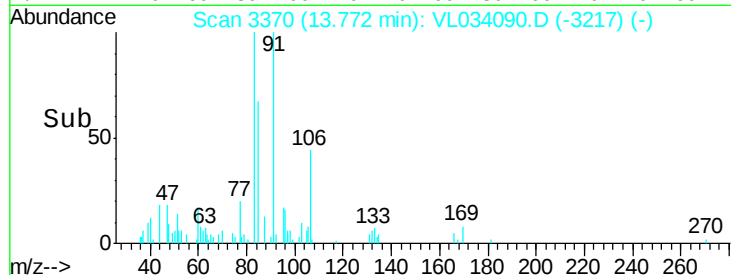
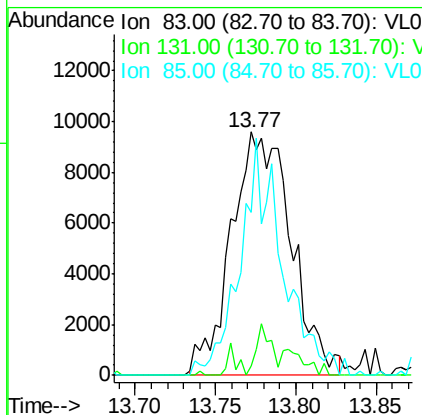
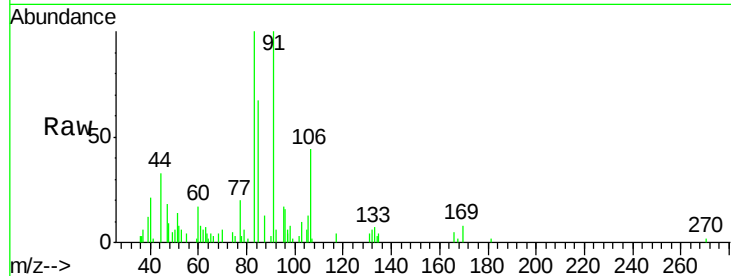
ClientSampleId :

VSTDIC0.1

Tot Ion:	83	Resp:	24608
Ion Ratio	Lower	Upper	
83	100		
131	11.4	4.6	13.8
85	68.4	32.6	97.8

Manual Integrations
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#68

1-Bromo-4-Fluorobenzene

Concen: 9.512 ppbv

RT: 14.52 min Scan# 3602

Delta R.T. 0.00 min

Lab File: VL034090.D

Acq: 5 Aug 2019 15:16

Tgt Ion:	95	Resp:	2060136
Ion Ratio	Lower	Upper	
95	100		
174	65.0	53.0	79.6
175	5.0	4.2	6.2

