

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111919\
 Data File : VL034378.D
 Acq On : 19 Nov 2019 12:23
 Operator : SY/AP
 Sample : VSTDIC0.1
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

Manual Integrations
 APPROVED

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 11/20/2019 3:53:26 PM

Quant Time: Nov 19 14:06:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111919AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Nov 19 14:06:51 2019
 QLast Update : Tue Nov 19 12:55:12 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1033067	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.20	114	2038912	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.14	117	2020237	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.47	95	1727160	10.09	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.23	62	7929	0.116	ppbv	97
32) 1,1,1-Trichloroethane	6.53	97	18954m	0.116	ppbv	
35) Carbon Tetrachloride	7.04	117	17779m	0.100	ppbv	
38) Trichloroethene	7.87	130	8865m	0.113	ppbv	
52) Tetrachloroethene	11.27	164	10812m	0.141	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.74	83	24216m	0.124	ppbv	

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

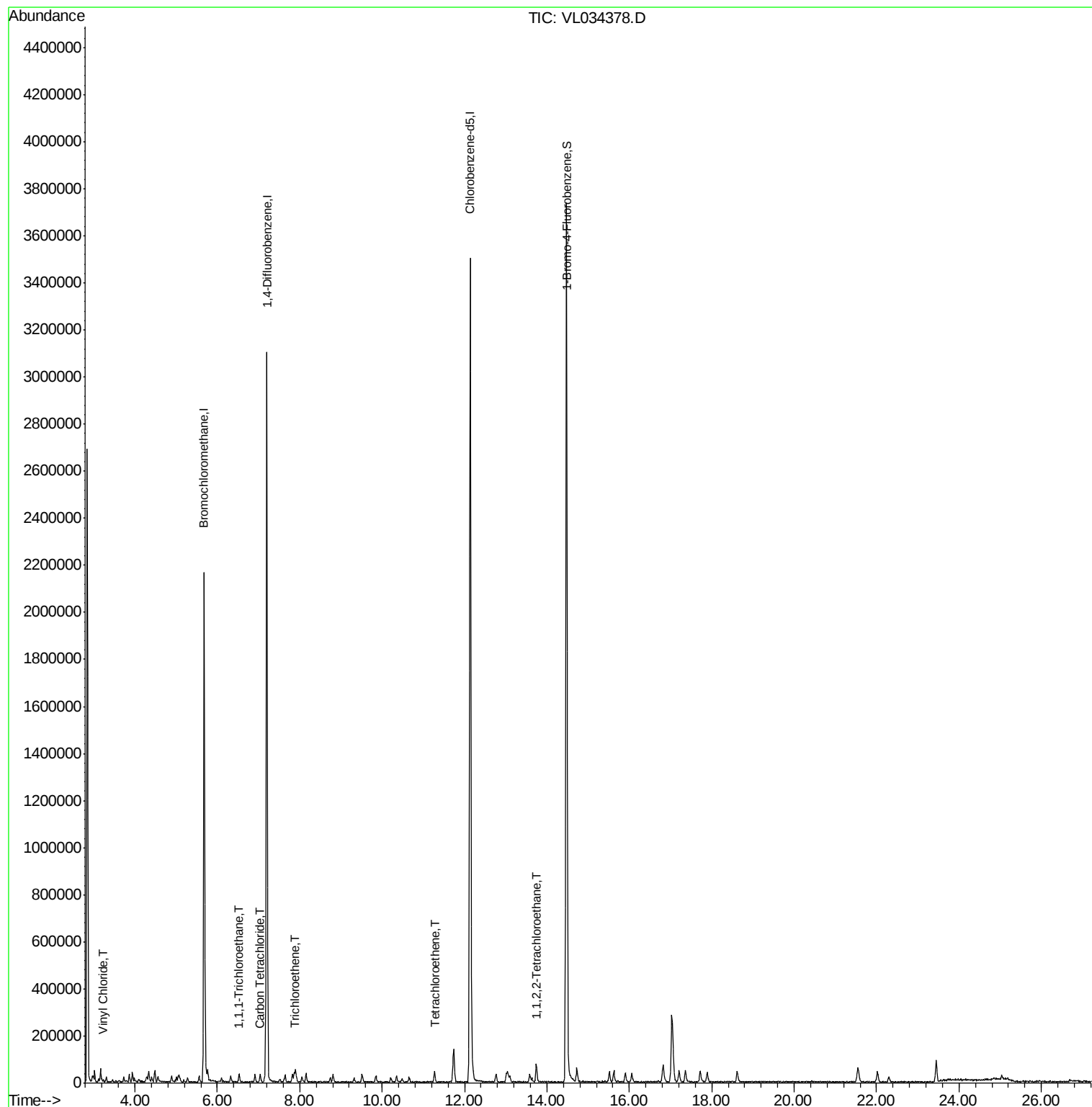
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL111919\
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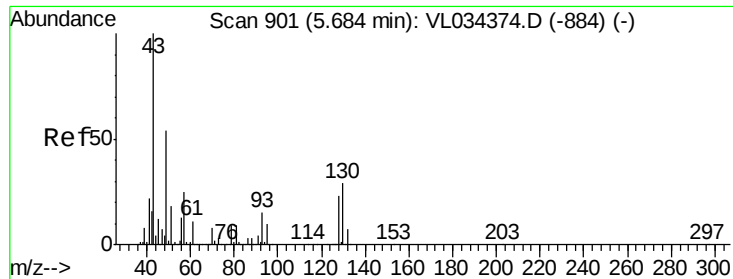
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

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Quant Time: Nov 19 14:06:51 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL111919AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Nov
QLast Update : Tue Nov 19 12:55:12 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 899

Delta R.T. -0.01 min

Lab File: VL034378.D

Acq: 19 Nov 2019 12:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tot Ion: 49 Resp: 1033067

Ion Ratio Lower Upper

49 100

128 42.3 20.6 61.8

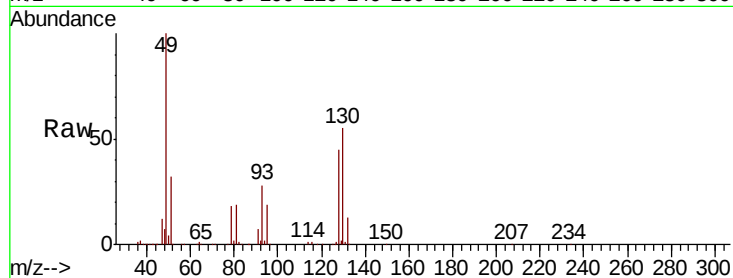
130 54.4 26.2 78.5

Manual Integrations

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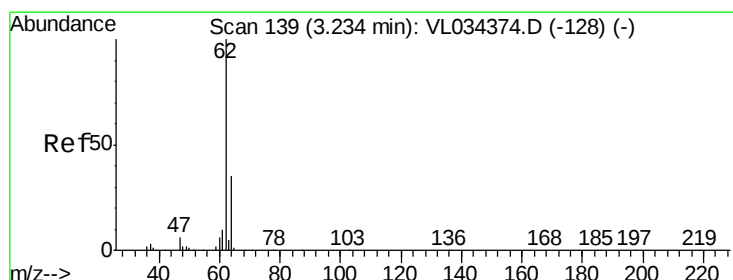
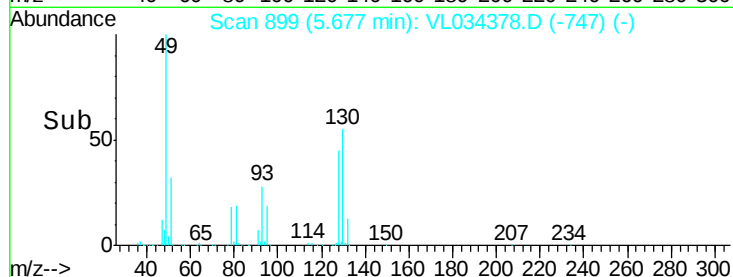
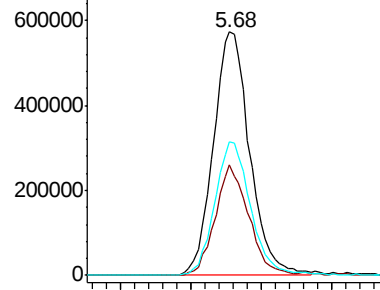
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#5

Vinyl Chloride

Concen: 0.116 ppbv

RT: 3.23 min Scan# 139

Delta R.T. -0.01 min

Lab File: VL034378.D

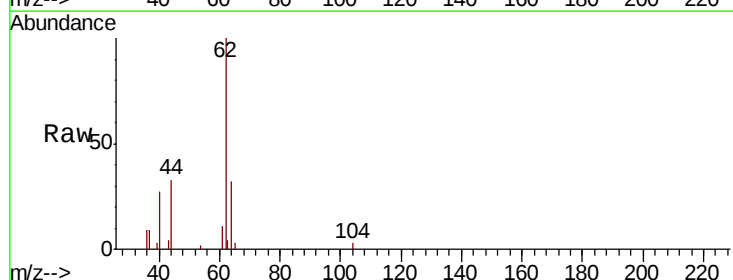
Acq: 19 Nov 2019 12:23

Tgt Ion: 62 Resp: 7929

Ion Ratio Lower Upper

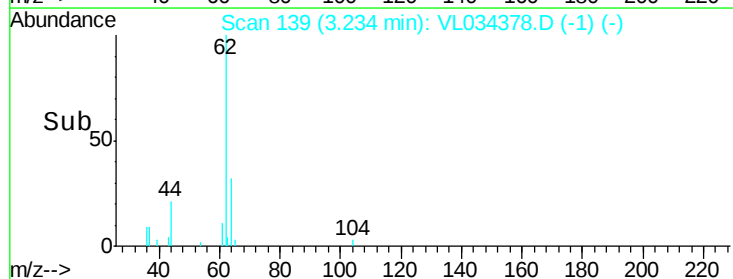
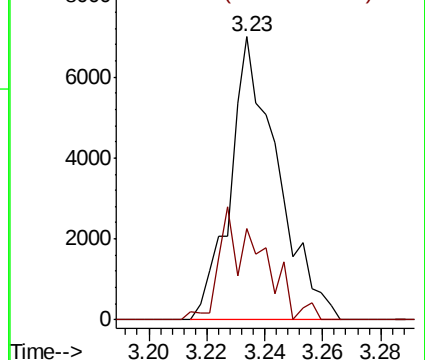
62 100

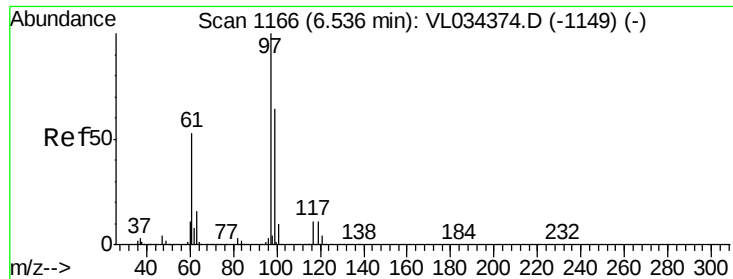
64 30.9 26.0 39.0



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: 0.116 ppbv m

RT: 6.53 min Scan# 1164

Delta R.T. -0.01 min

Lab File: VL034378.D

Acq: 19 Nov 2019 12:23

Instrument :

MSVOA_L

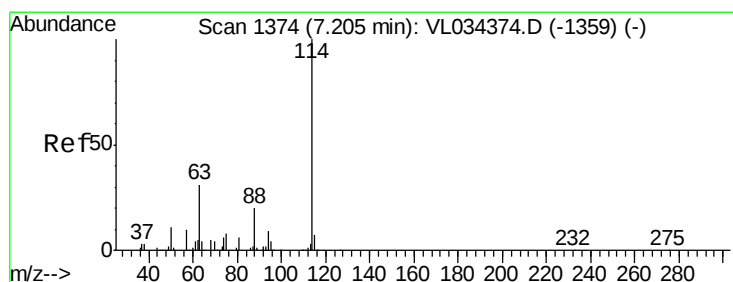
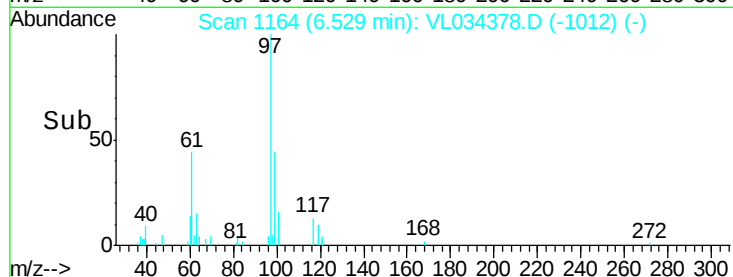
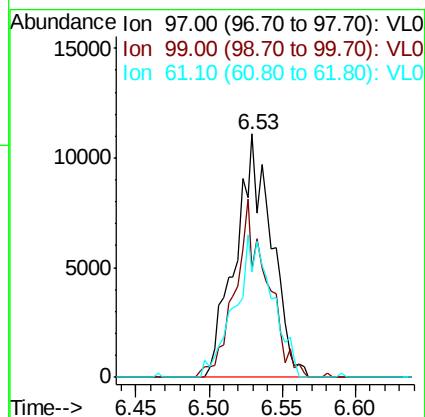
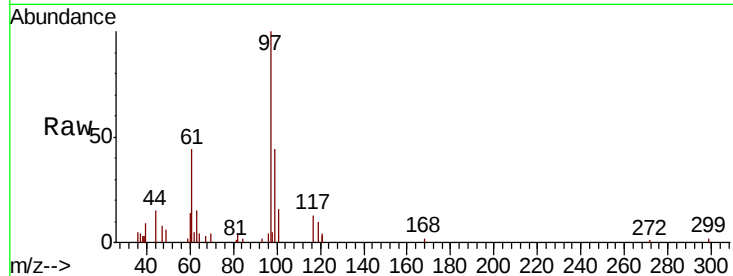
ClientSampleId :

VSTDIC0.1

Tot Ion:	97	Resp:	18954
Ion	Ratio	Lower	Upper
97	100		
99	64.8	52.6	78.8
61	60.5	44.5	66.7

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

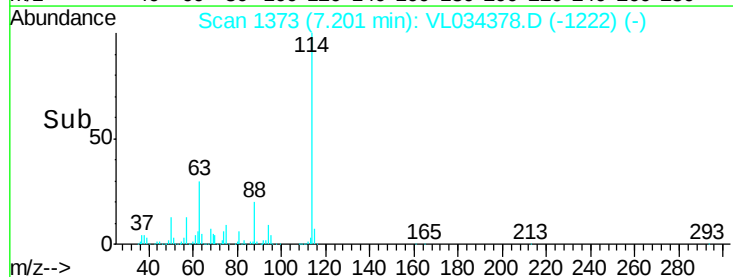
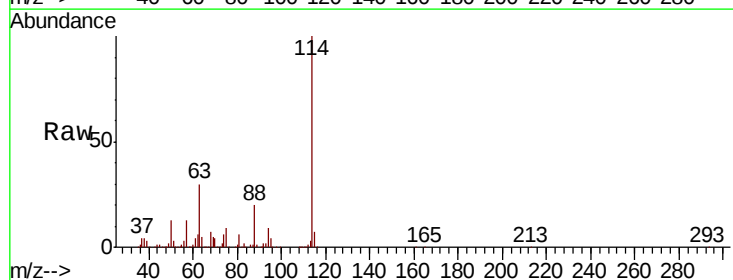
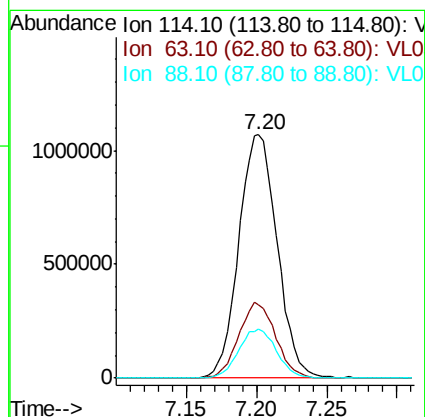
RT: 7.20 min Scan# 1373

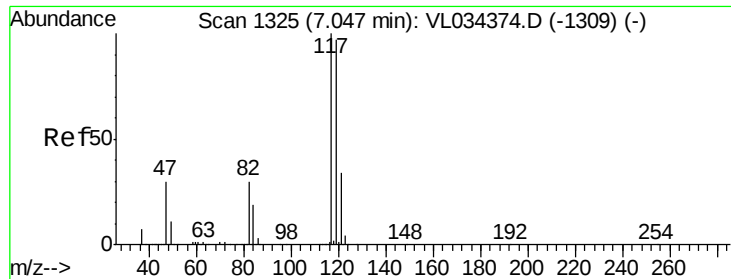
Delta R.T. -0.02 min

Lab File: VL034378.D

Acq: 19 Nov 2019 12:23

Tgt Ion:	114	Resp:	2038912
Ion	Ratio	Lower	Upper
114	100		
63	30.1	25.2	37.8
88	20.1	16.0	24.0





#35

Carbon Tetrachloride

Concen: 0.100 ppbv m

RT: 7.04 min Scan# 1322

Delta R.T. -0.02 min

Lab File: VL034378.D

Acq: 19 Nov 2019 12:23

Instrument :

MSVOA_L

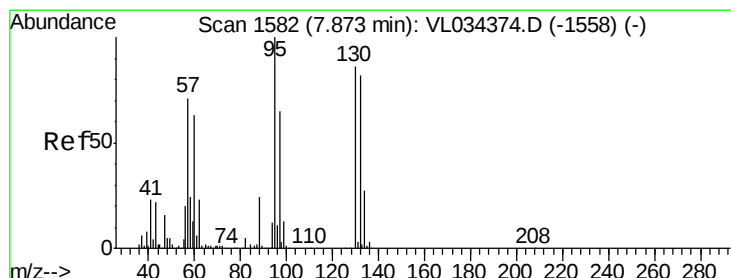
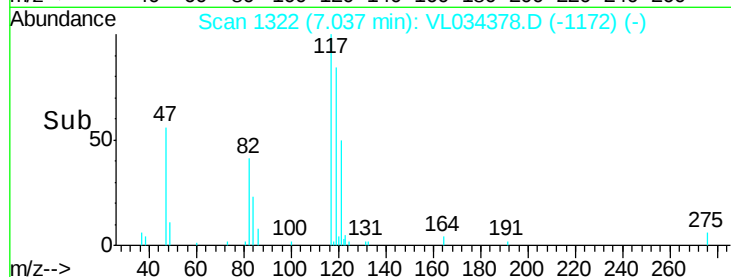
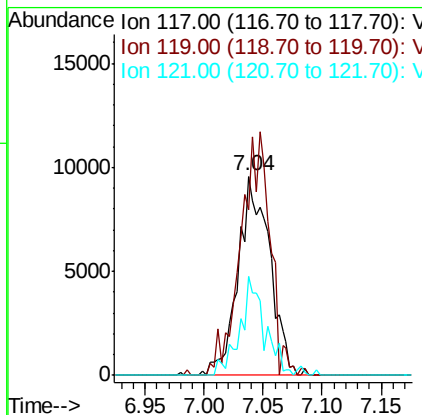
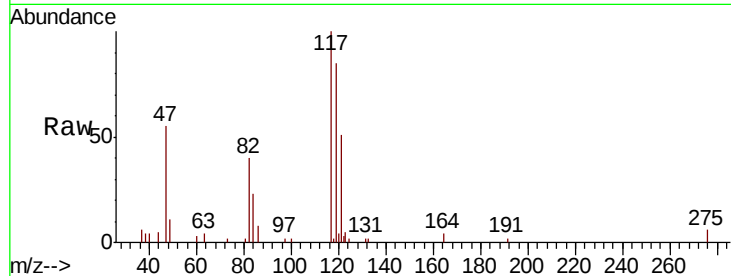
ClientSampleId :

VSTDIC0.1

Tot Ion	Ratio	Lower	Upper
117	100		
119	85.1	77.3	115.9
121	50.8	25.5	38.3#

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#38

Trichloroethene

Concen: 0.113 ppbv m

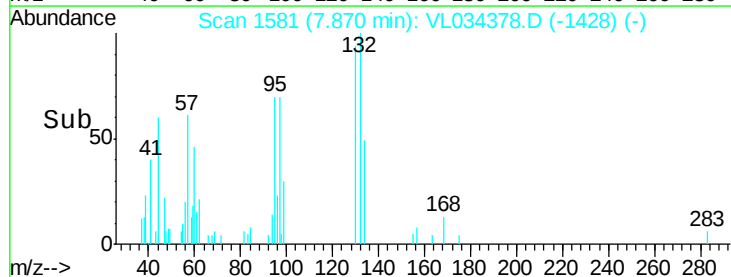
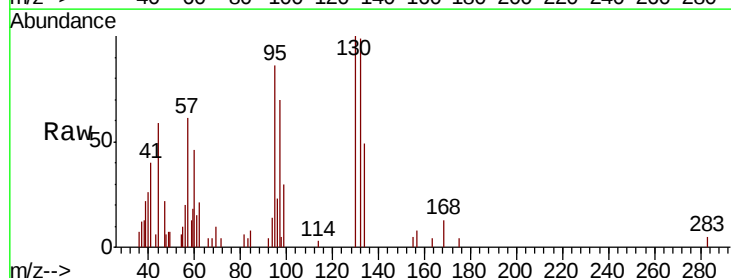
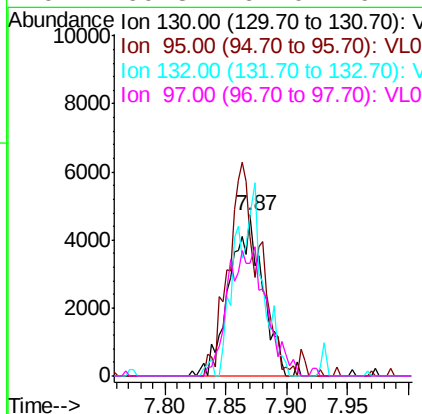
RT: 7.87 min Scan# 1581

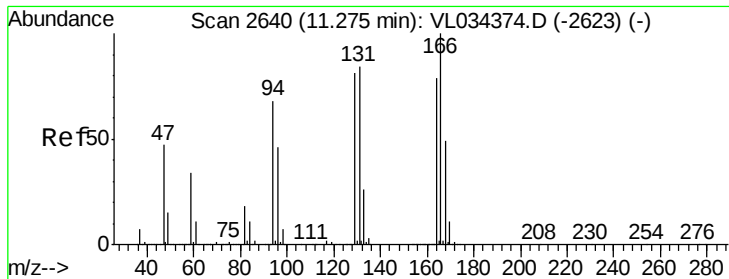
Delta R.T. -0.01 min

Lab File: VL034378.D

Acq: 19 Nov 2019 12:23

Tgt Ion	Ratio	Lower	Upper
130	100		
95	86.3	88.6	132.8#
132	99.4	71.2	106.8
97	69.8	61.0	91.4





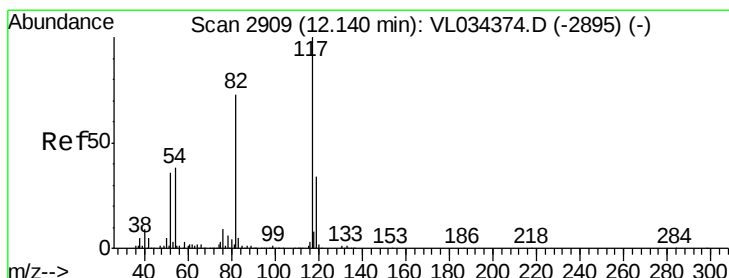
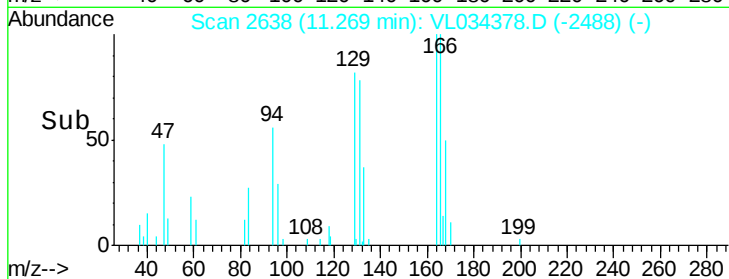
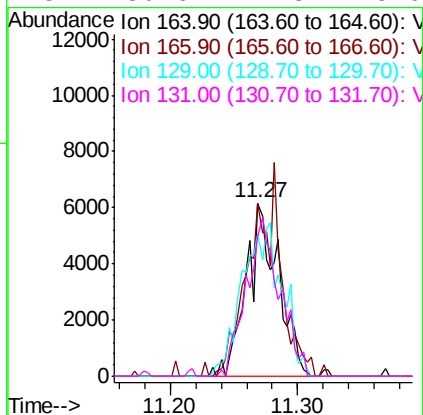
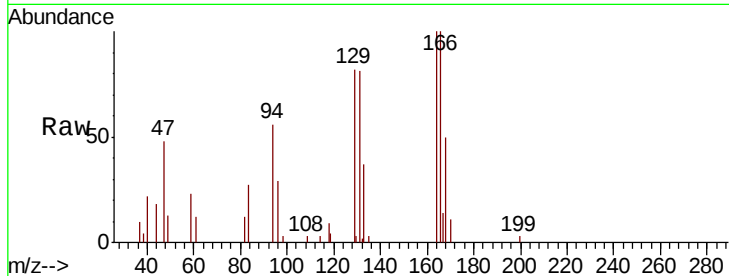
#52
Tetrachloroethene
Concen: 0.141 ppbv m
RT: 11.27 min Scan# 2638
Delta R.T. -0.02 min
Lab File: VL034378.D
Acq: 19 Nov 2019 12:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

Tot Ion	Ratio	Lower	Upper
164	100		
166	99.9	95.3	142.9
129	81.9	84.5	126.7
131	80.6	77.3	115.9

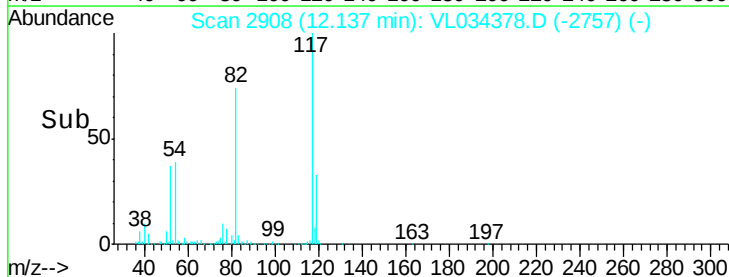
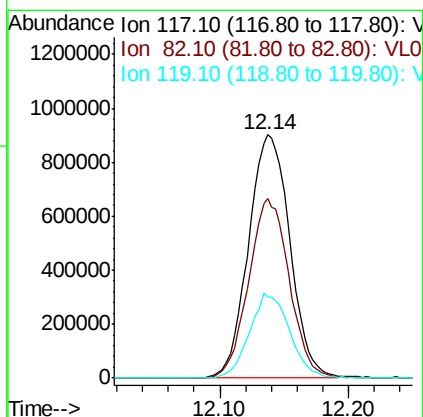
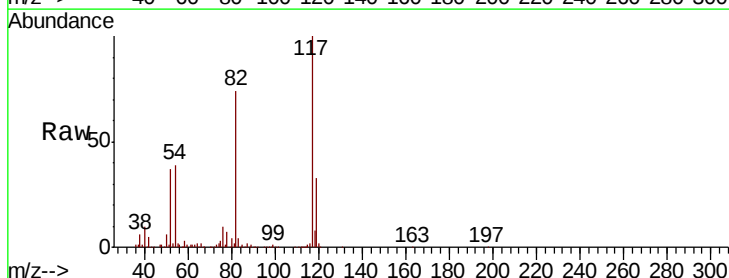
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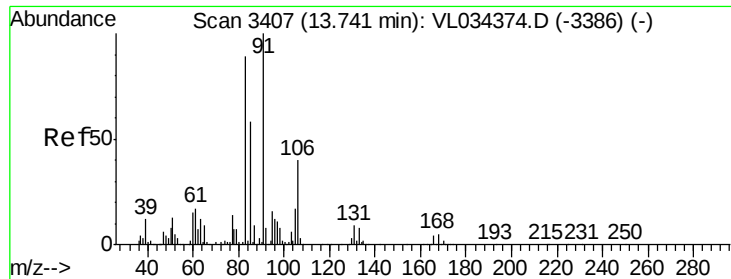
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#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.14 min Scan# 2908
Delta R.T. -0.02 min
Lab File: VL034378.D
Acq: 19 Nov 2019 12:23

Tgt Ion	Ratio	Lower	Upper
117	100		
82	72.4	55.5	83.3
119	33.8	26.5	39.7





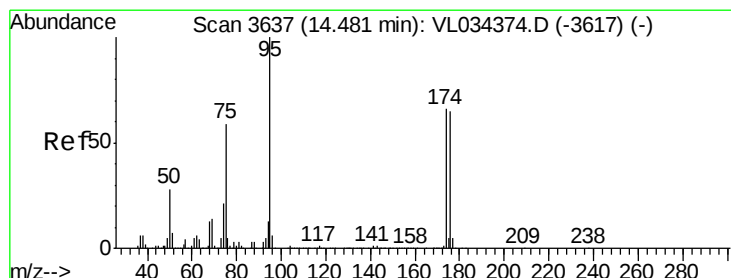
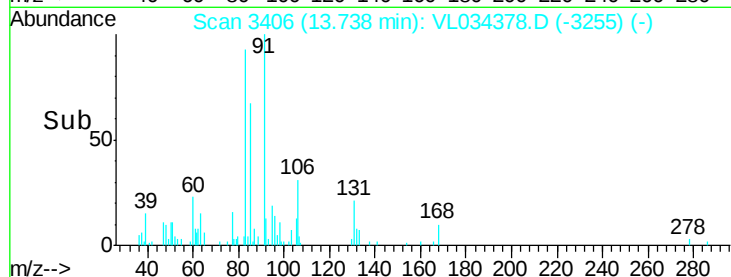
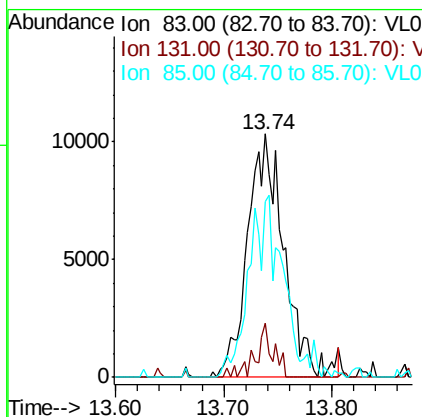
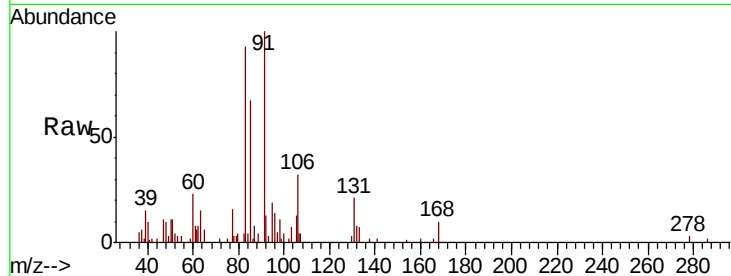
#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.124 ppbv m
 RT: 13.74 min Scan# 3406
 Delta R.T. -0.02 min
 Lab File: VL034378.D
 Acq: 19 Nov 2019 12:23

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

Tot Ion	Ratio	Lower	Upper
83	100		
131	10.4	4.8	14.4
85	70.2	32.5	97.4

Manual Integrations
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#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.094 ppbv
 RT: 14.47 min Scan# 3635
 Delta R.T. -0.02 min
 Lab File: VL034378.D
 Acq: 19 Nov 2019 12:23

Tgt Ion	Ratio	Lower	Upper
95	100		
174	66.1	52.6	78.8
175	4.7	3.8	5.6

