

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL061421\
 Data File : VL037149.D
 Acq On : 14 Jun 2021 14:52
 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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 6/15/2021 5:17:10 PM

Quant Time: Jun 14 16:30:10 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061421AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 18 2021
 QLast Update : Tue May 18 12:00:15 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1600864	10.00	ppbv	0.03
33) 1,4-Difluorobenzene	7.19	114	4723942	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.10	117	4170144	10.00	ppbv	0.04

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	2982990	9.52	ppbv	0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.27	62	8535m	0.078	ppbv	
32) 1,1,1-Trichloroethane	6.52	97	22318	0.073	ppbv #	81
35) Carbon Tetrachloride	7.03	117	24065m	0.077	ppbv	
38) Trichloroethene	7.85	130	15017m	0.086	ppbv	
52) Tetrachloroethene	11.24	164	14354m	0.089	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.69	83	27334m	0.079	ppbv	

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

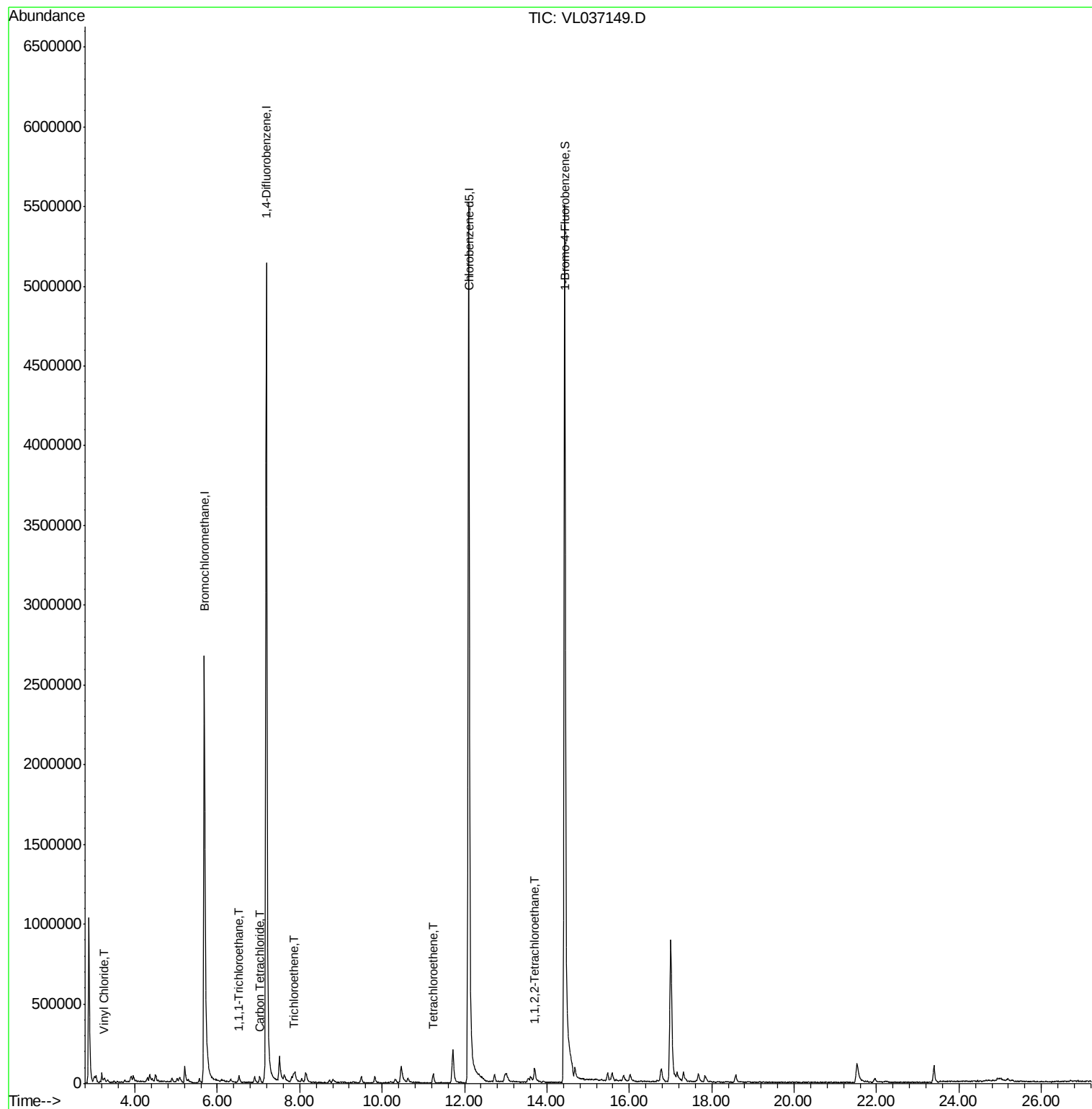
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL061421\
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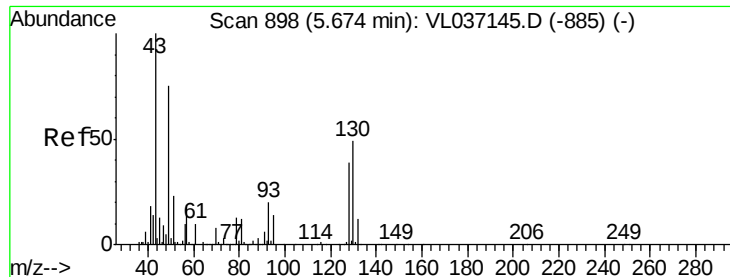
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QLast Update : Tue May 18 12:00:15 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 900

Delta R.T. 0.03 min

Lab File: VL037149.D

Acq: 14 Jun 2021 14:52

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tot Ion: 49 Resp: 1600864

Ion Ratio Lower Upper

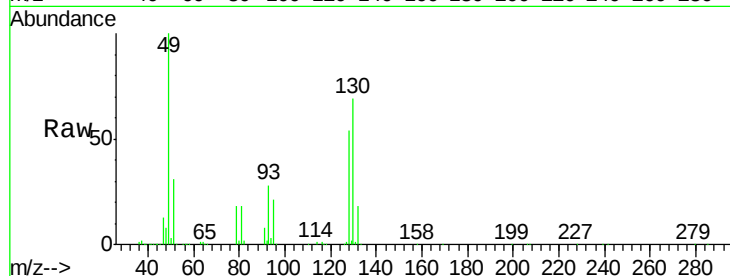
49 100

128 58.6 26.9 80.7

130 73.4 33.8 101.4

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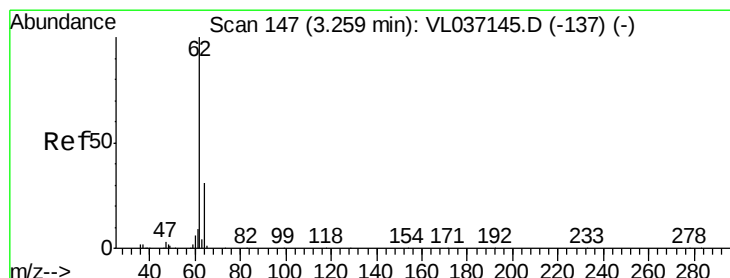
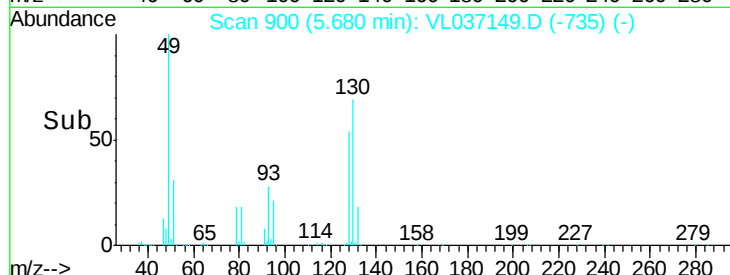
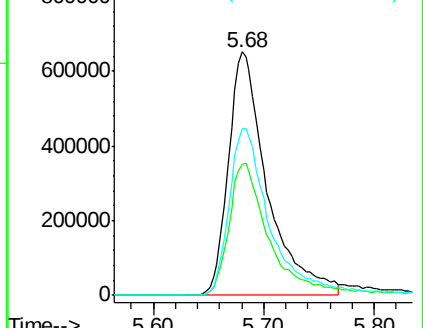
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#5

Vinyl Chloride

Concen: 0.078 ppbv m

RT: 3.27 min Scan# 150

Delta R.T. 0.03 min

Lab File: VL037149.D

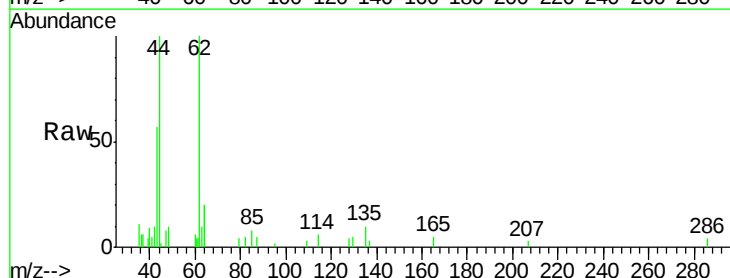
Acq: 14 Jun 2021 14:52

Tgt Ion: 62 Resp: 8535

Ion Ratio Lower Upper

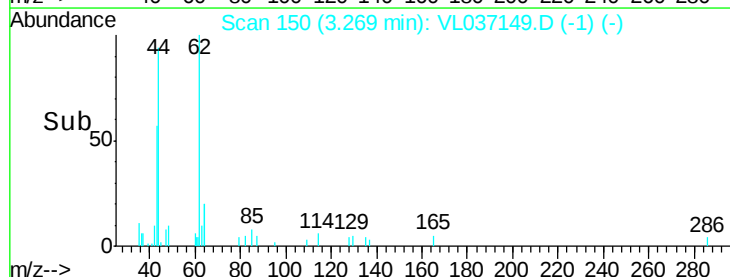
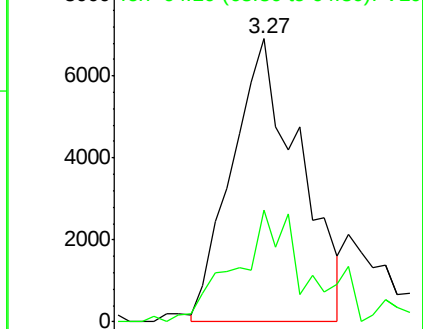
62 100

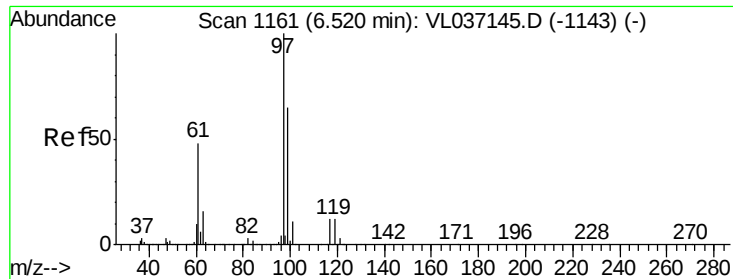
64 19.9 25.9 38.9#



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: 0.073 ppbv

RT: 6.52 min Scan# 1162

Delta R.T. 0.03 min

Lab File: VL037149.D

Acq: 14 Jun 2021 14:52

Instrument :

MSVOA_L

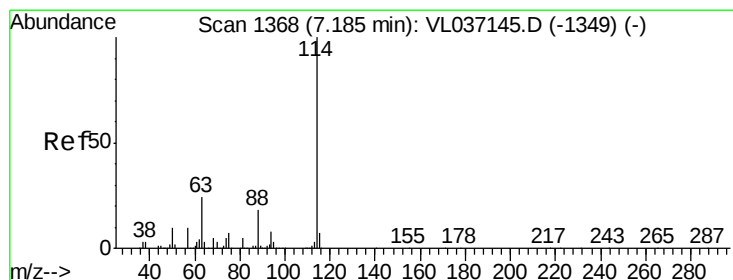
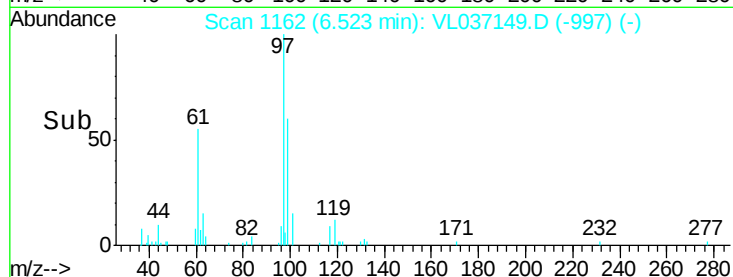
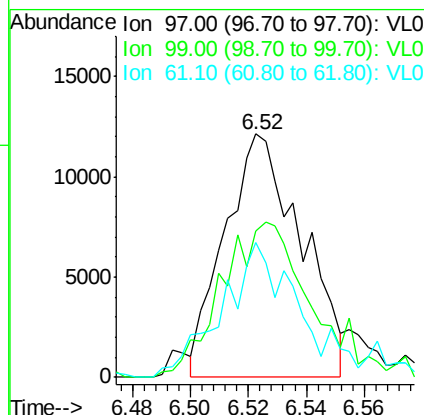
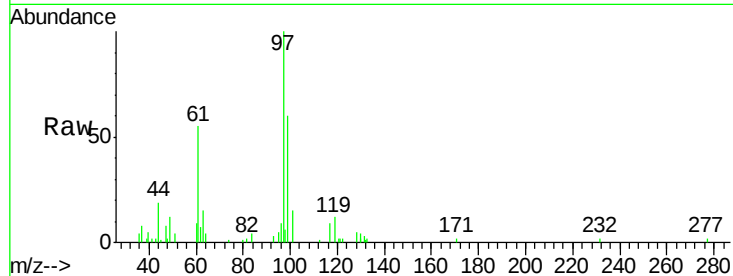
ClientSampleId :

VSTDIC0.1

Tot Ion:	97	Resp:	22318
Ion Ratio	Lower	Upper	
97	100		
99	77.0	51.9	77.9
61	62.4	37.6	56.4#

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

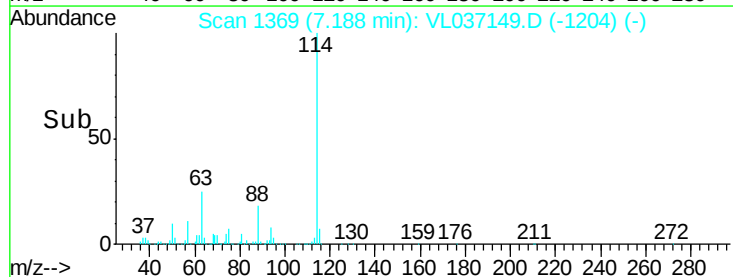
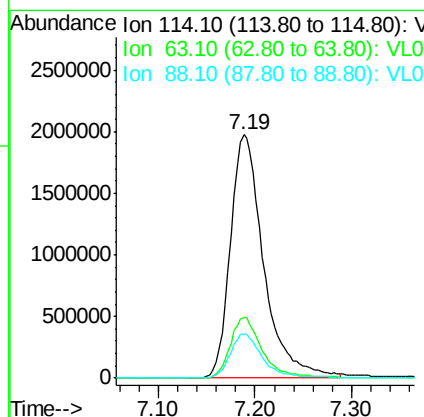
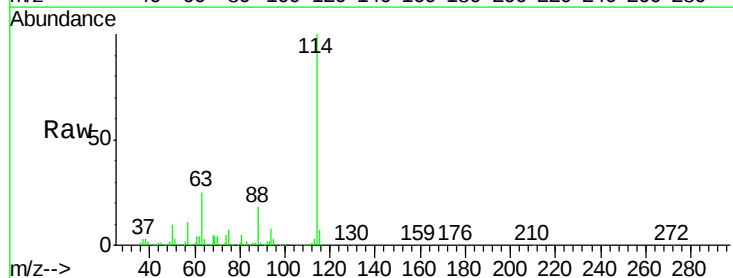
RT: 7.19 min Scan# 1369

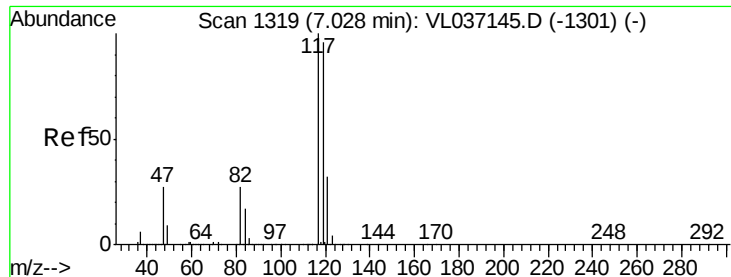
Delta R.T. 0.03 min

Lab File: VL037149.D

Acq: 14 Jun 2021 14:52

Tgt Ion:	114	Resp:	4723942
Ion Ratio	Lower	Upper	
114	100		
63	24.5	19.6	29.4
88	17.9	14.6	21.8





#35

Carbon Tetrachloride

Concen: 0.077 ppbv m

RT: 7.03 min Scan# 1320

Delta R.T. 0.03 min

Lab File: VL037149.D

Acq: 14 Jun 2021 14:52

Instrument :

MSVOA_L

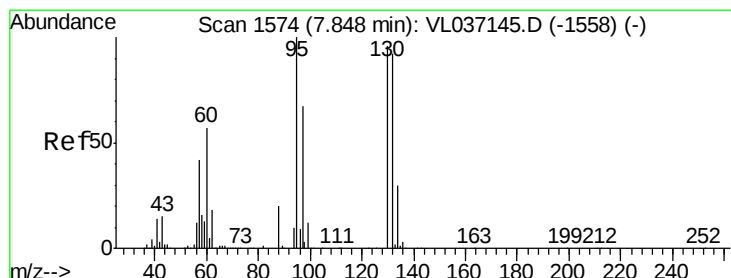
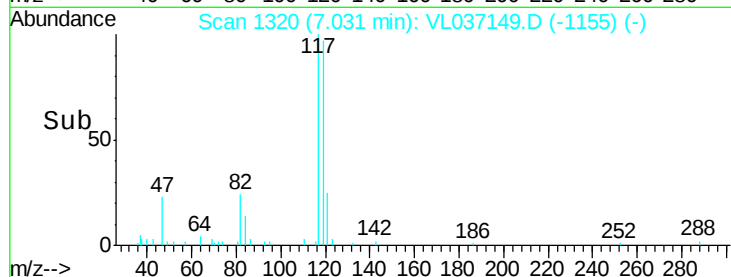
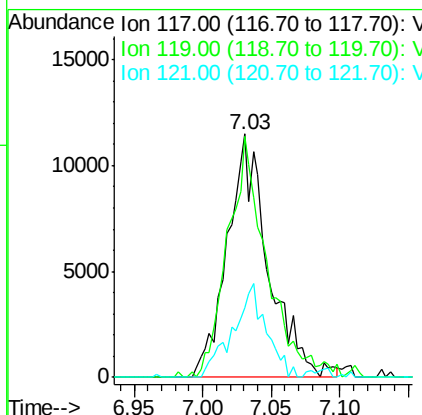
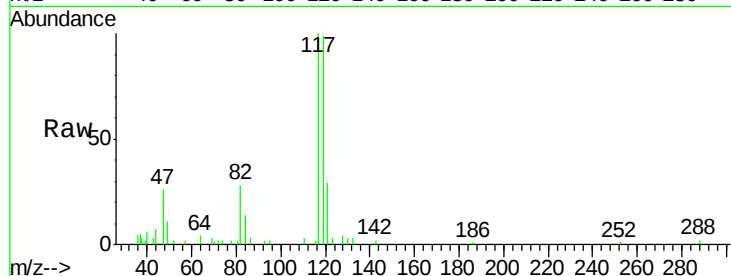
ClientSampleId :

VSTDIC0.1

Tot Ion:	117	Resp:	24065
Ion Ratio	Lower	Upper	
117	100		
119	99.2	76.6	114.8
121	28.7	25.8	38.6

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#38

Trichloroethene

Concen: 0.086 ppbv m

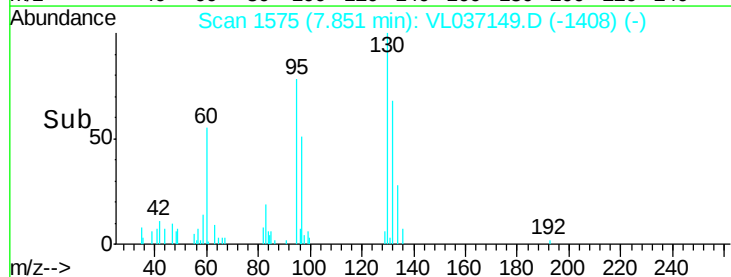
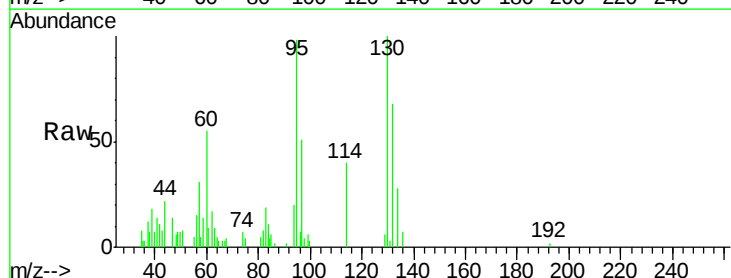
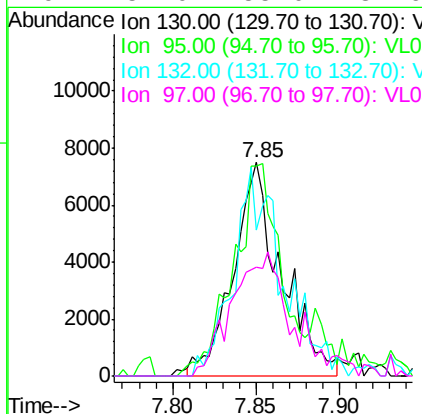
RT: 7.85 min Scan# 1575

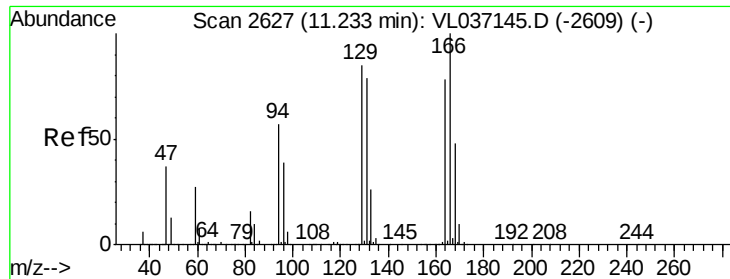
Delta R.T. 0.04 min

Lab File: VL037149.D

Acq: 14 Jun 2021 14:52

Tgt Ion:	130	Resp:	15017
Ion Ratio	Lower	Upper	
130	100		
95	98.3	86.9	130.3
132	68.3	78.4	117.6#
97	51.0	55.0	82.6#





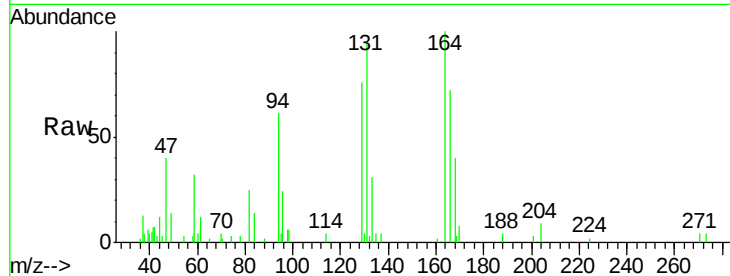
#52
Tetrachloroethene
Concen: 0.089 ppbv m
RT: 11.24 min Scan# 2630
Delta R.T. 0.04 min
Lab File: VL037149.D
Acq: 14 Jun 2021 14:52

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

Tot Ion	Ratio	Lower	Upper
164	100		
166	72.2	105.5	158.3#
129	76.1	81.8	122.8#
131	95.4	81.2	121.8

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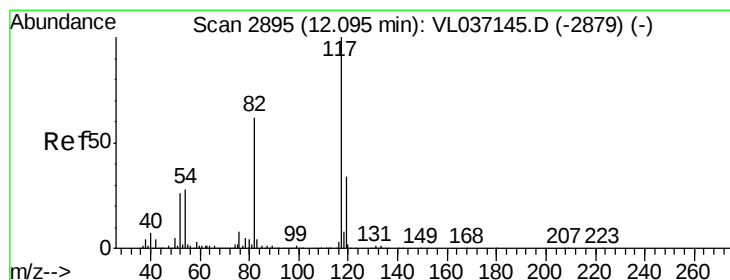
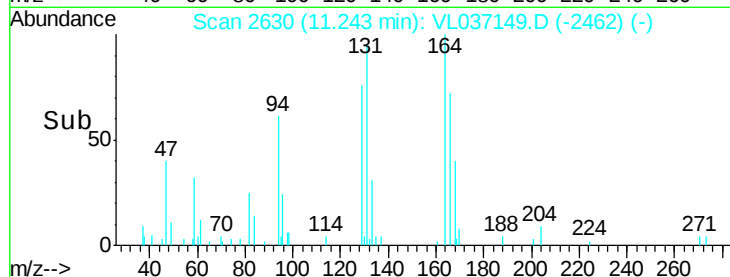
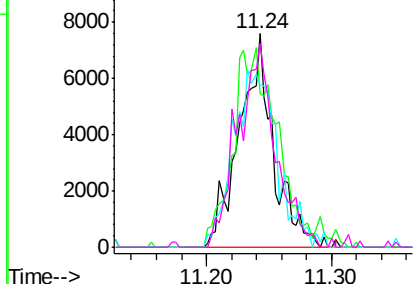
Abundance

Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

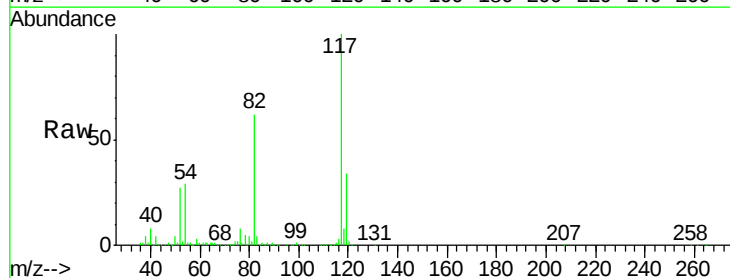
Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2897
Delta R.T. 0.04 min
Lab File: VL037149.D
Acq: 14 Jun 2021 14:52

Tgt Ion	Ratio	Lower	Upper
117	100		
82	63.8	52.6	79.0
119	34.8	46.6	70.0#

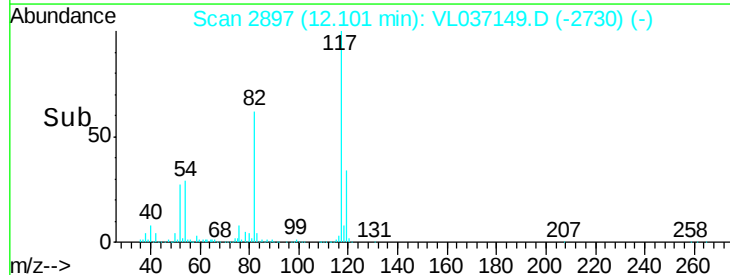
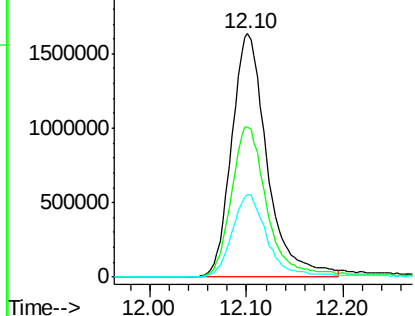


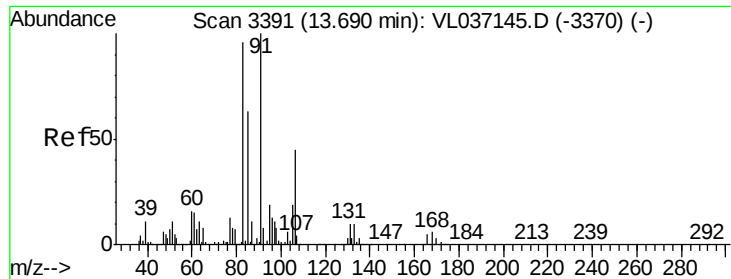
Abundance

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





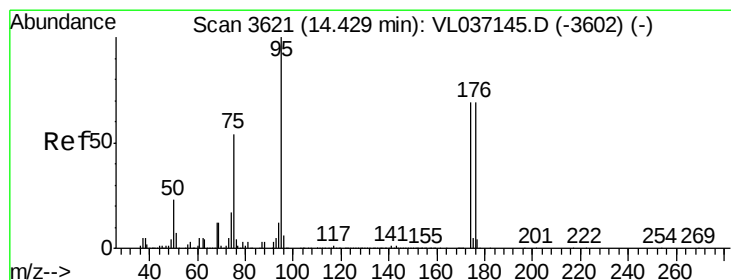
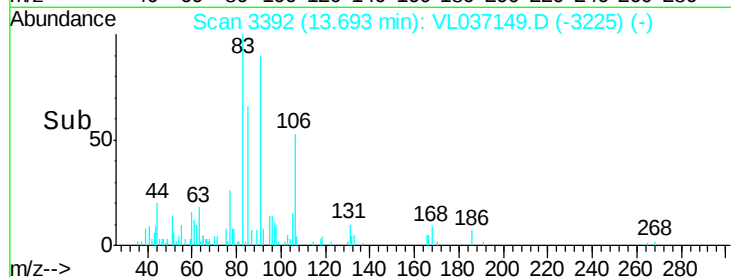
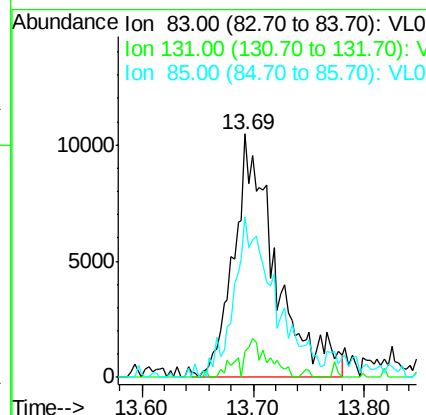
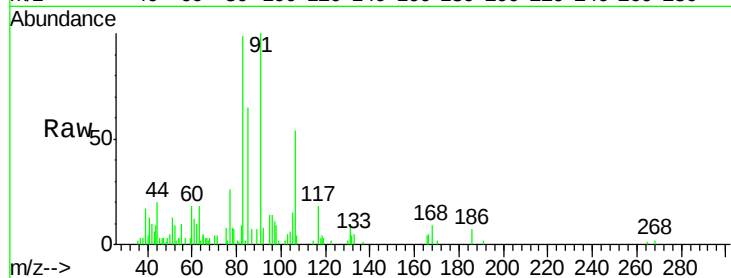
#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.079 ppbv m
 RT: 13.69 min Scan# 3392
 Delta R.T. 0.04 min
 Lab File: VL037149.D
 Acq: 14 Jun 2021 14:52

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

Tot Ion	Ratio	Lower	Upper
83	100		
131	11.3	5.0	15.0
85	72.0	32.9	98.6

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#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.522 ppbv
 RT: 14.43 min Scan# 3622
 Delta R.T. 0.04 min
 Lab File: VL037149.D
 Acq: 14 Jun 2021 14:52

Tgt Ion	Ratio	Lower	Upper
95	100		
174	77.5	58.4	87.6
175	5.6	4.4	6.6

