

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL072721\
 Data File : VL037283.D
 Acq On : 27 Jul 2021 5:09
 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

MMDadoda
 8/2/2021 9:03:43 AM

Quant Time: Jul 27 07:08:26 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL072721AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 27 2021
 QLast Update : Tue Jul 27 06:38:44 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1271417	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3719239	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	3309133	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	2456523	9.80	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.26	62	9767	0.108	ppbv	90
32) 1,1,1-Trichloroethane	6.52	97	25700	0.098	ppbv	95
35) Carbon Tetrachloride	7.02	117	24929m	0.099	ppbv	
38) Trichloroethene	7.83	130	14810m	0.103	ppbv	
52) Tetrachloroethene	11.23	164	13520m	0.096	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.69	83	27852m	0.112	ppbv	

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

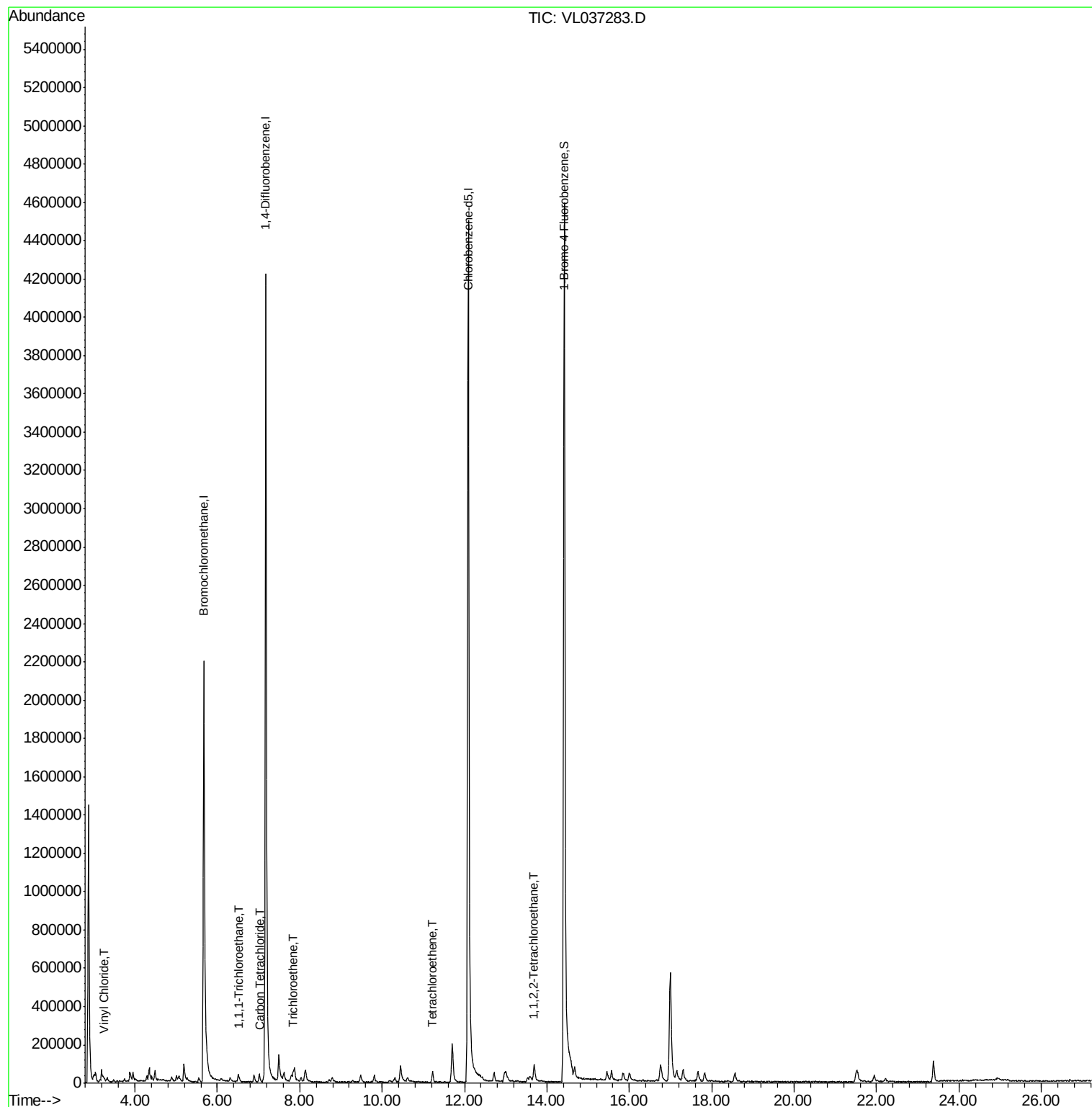
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL072721\
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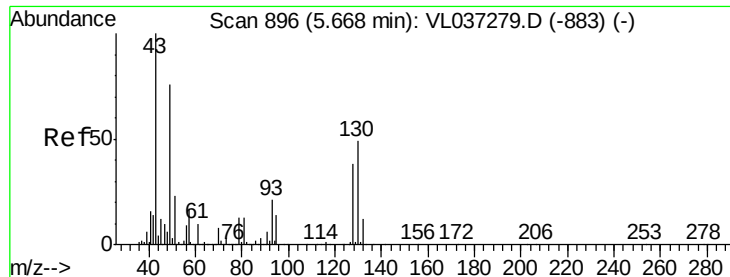
Instrument :
MSVOA_L
ClientSampleId :
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QLast Update : Tue Jul 27 06:38:44 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 897

Delta R.T. 0.00 min

Lab File: VL037283.D

Acq: 27 Jul 2021 5:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tot Ion: 49 Resp: 1271417

Ion Ratio Lower Upper

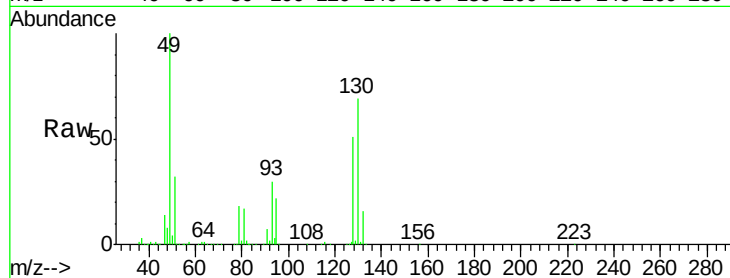
49 100

128 56.7 28.4 85.2

130 72.9 34.8 104.5

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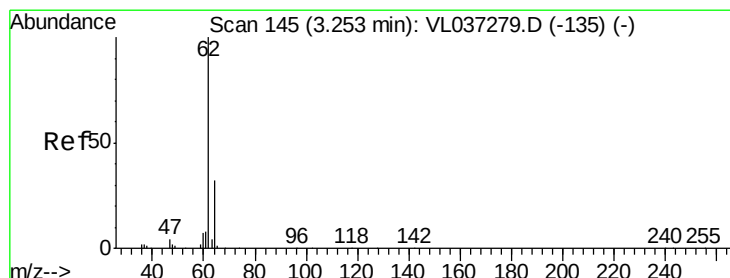
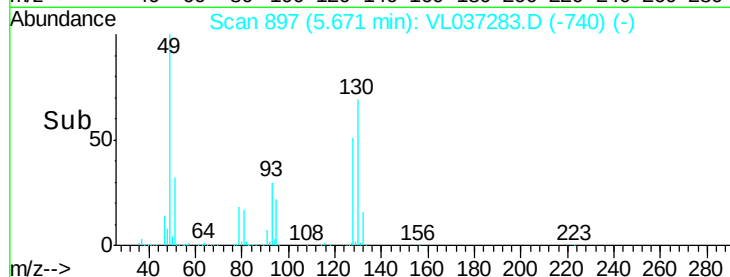
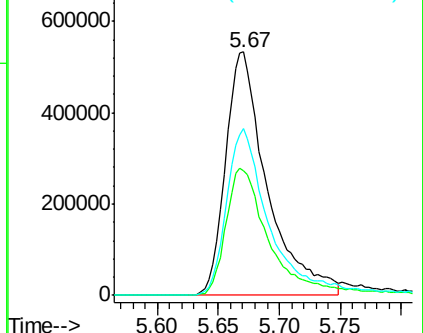
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#5

Vinyl Chloride

Concen: 0.108 ppbv

RT: 3.26 min Scan# 147

Delta R.T. 0.01 min

Lab File: VL037283.D

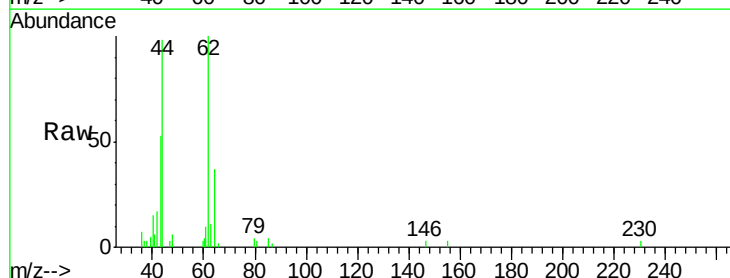
Acq: 27 Jul 2021 5:09

Tgt Ion: 62 Resp: 9767

Ion Ratio Lower Upper

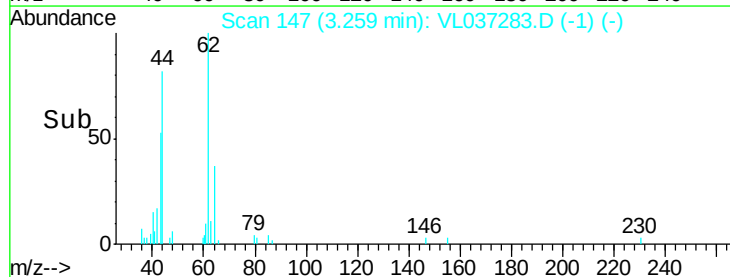
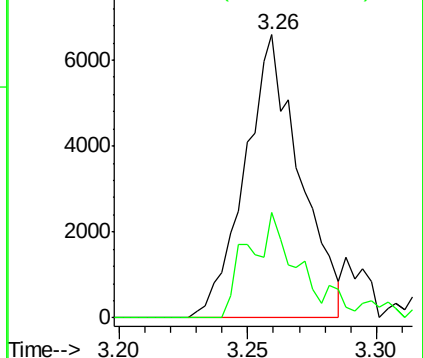
62 100

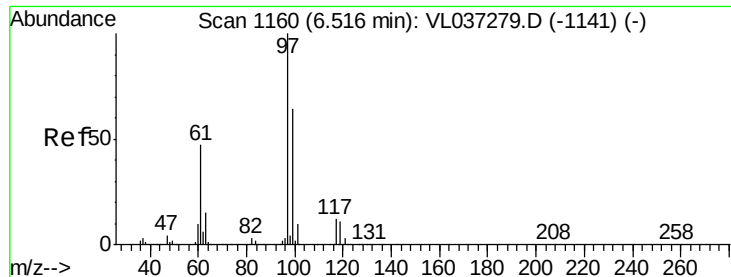
64 37.5 25.5 38.3



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: 0.098 ppbv

RT: 6.52 min Scan# 1160

Delta R.T. 0.00 min

Lab File: VL037283.D

Acq: 27 Jul 2021 5:09

Instrument :

MSVOA_L

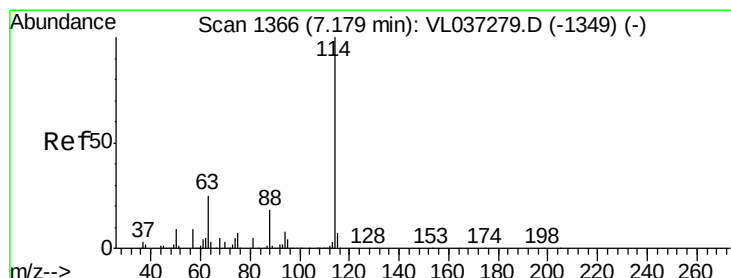
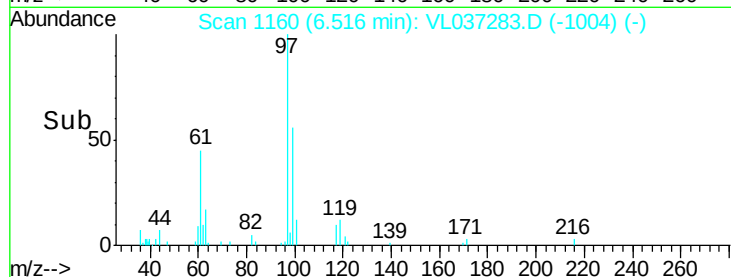
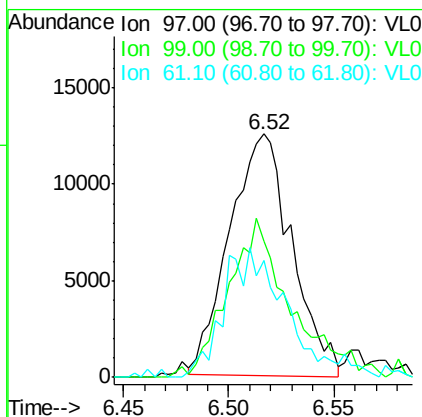
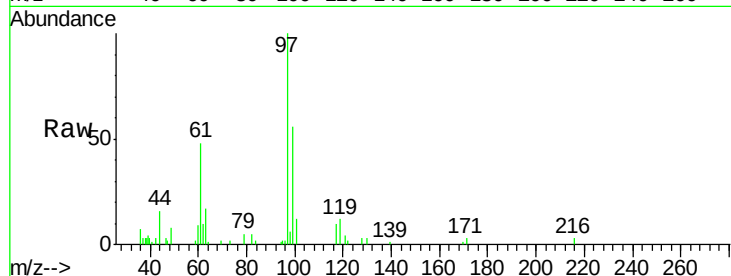
ClientSampleId :

VSTDIC0.1

Tot Ion:	97	Resp:	25700
Ion	Ratio	Lower	Upper
97	100		
99	66.6	52.2	78.2
61	55.0	39.1	58.7

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

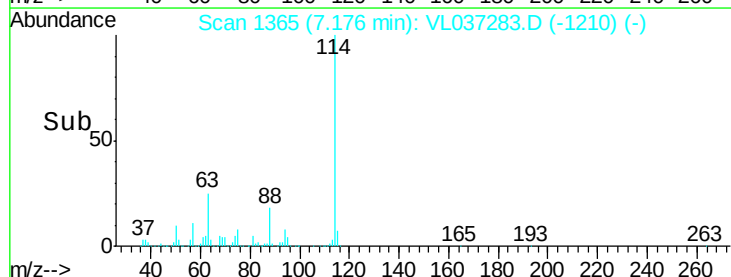
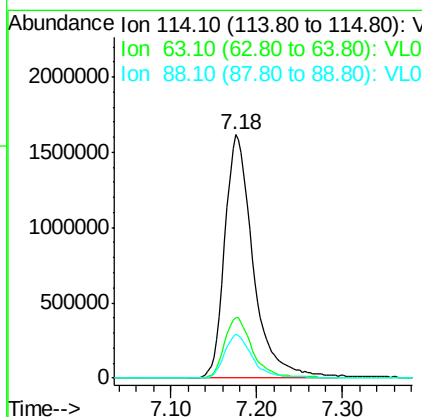
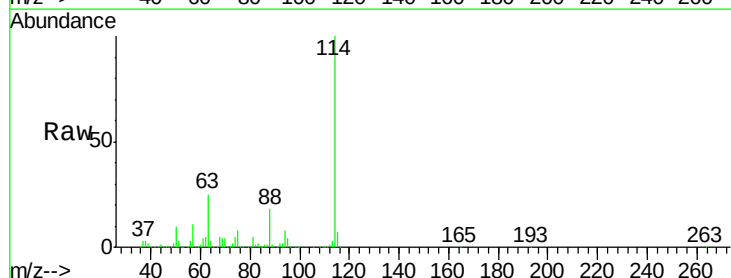
RT: 7.18 min Scan# 1365

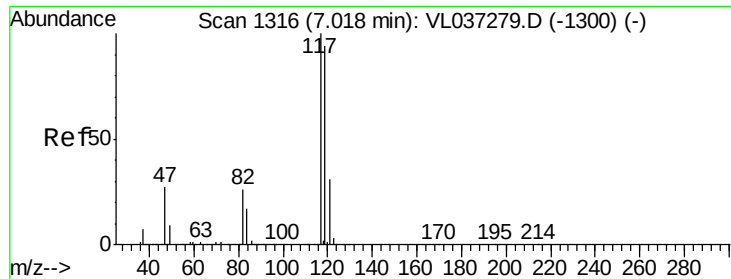
Delta R.T. -0.00 min

Lab File: VL037283.D

Acq: 27 Jul 2021 5:09

Tgt Ion:	114	Resp:	3719239
Ion	Ratio	Lower	Upper
114	100		
63	24.8	20.2	30.2
88	17.8	14.2	21.4





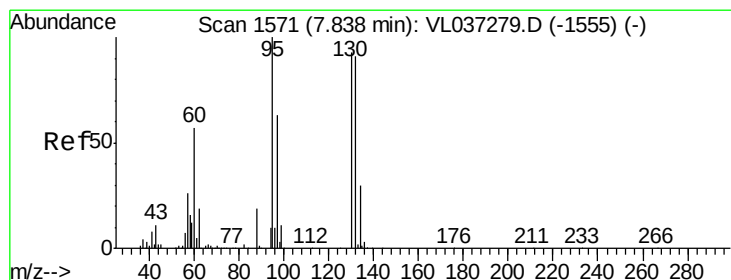
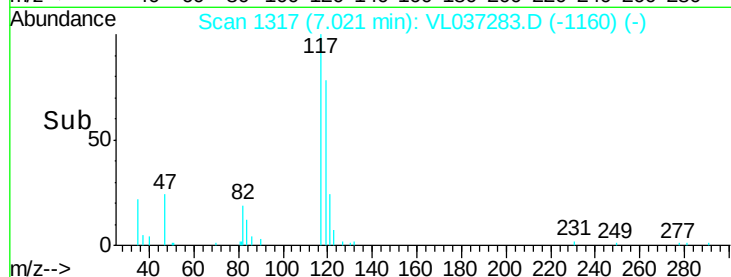
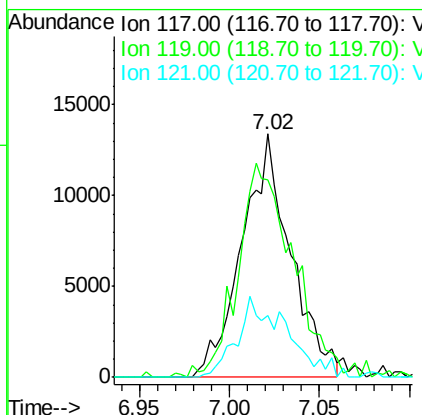
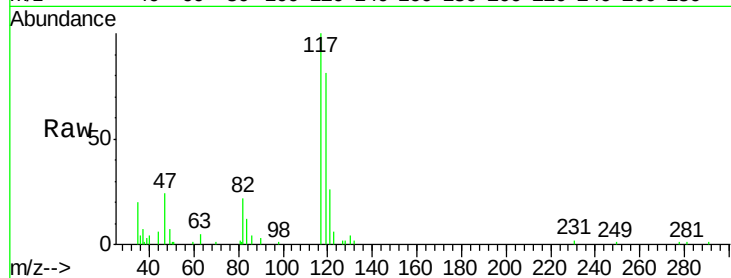
#35
Carbon Tetrachloride
Concen: 0.099 ppbv m
RT: 7.02 min Scan# 1317
Delta R.T. 0.00 min
Lab File: VL037283.D
Acq: 27 Jul 2021 5:09

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCO.1

Tot Ion	Ratio	Lower	Upper
117	100		
119	81.2	75.4	113.0
121	25.7	24.8	37.2

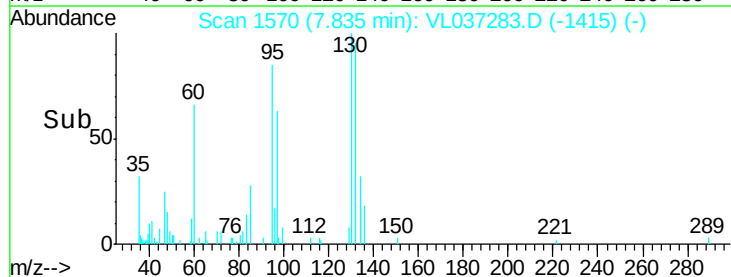
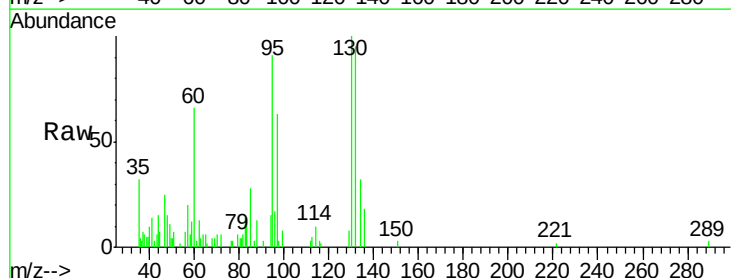
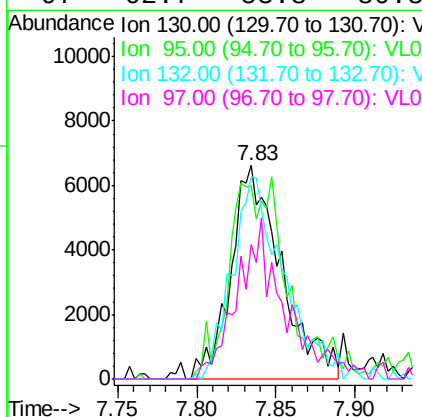
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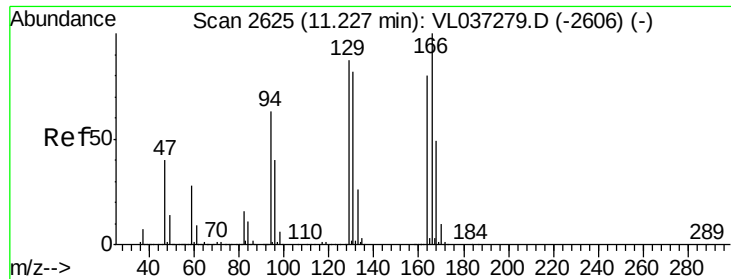
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#38
Trichloroethene
Concen: 0.103 ppbv m
RT: 7.83 min Scan# 1570
Delta R.T. -0.00 min
Lab File: VL037283.D
Acq: 27 Jul 2021 5:09

Tgt Ion	Ratio	Lower	Upper
130	100		
95	90.5	86.2	129.2
132	94.6	78.0	117.0
97	62.7	53.8	80.8





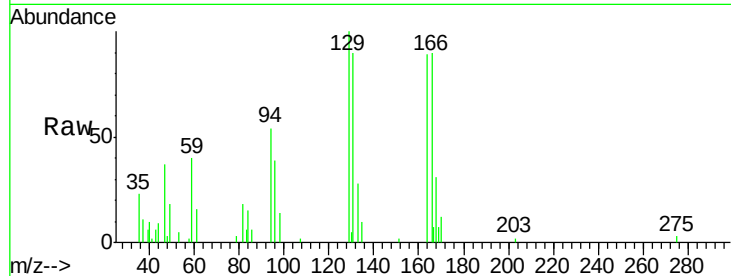
#52
Tetrachloroethene
Concen: 0.096 ppbv m
RT: 11.23 min Scan# 2626
Delta R.T. 0.00 min
Lab File: VL037283.D
Acq: 27 Jul 2021 5:09

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

Tot Ion	Ratio	Lower	Upper
164	100		
166	101.2	100.6	151.0
129	112.3	87.8	131.6
131	100.8	82.6	123.8

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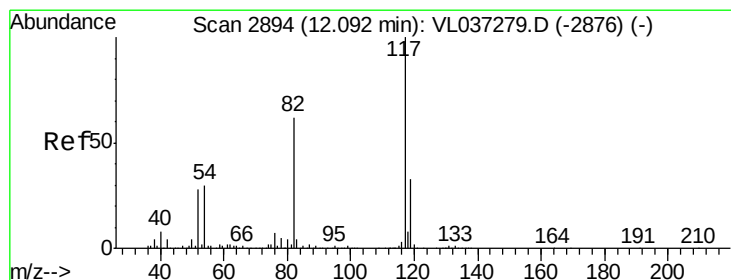
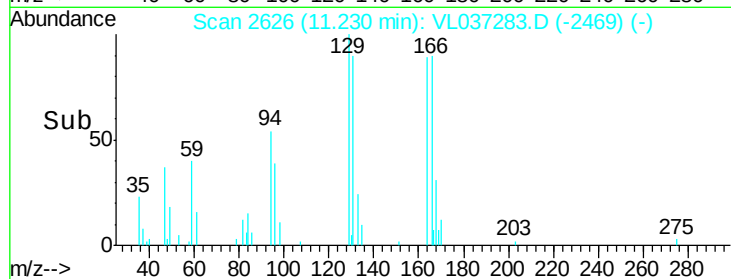
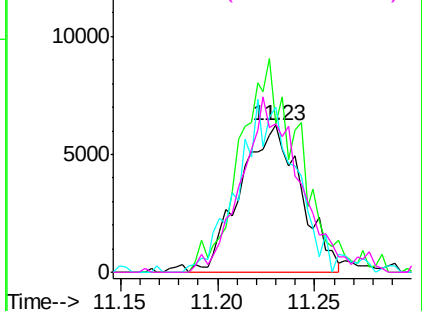


Abundance Ion 163.90 (163.60 to 164.60): V

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



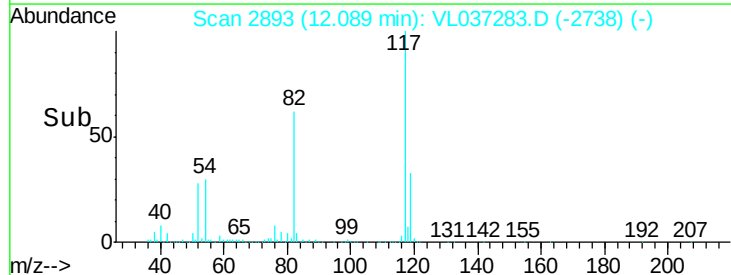
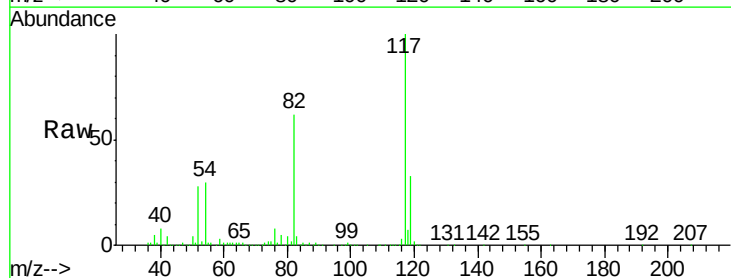
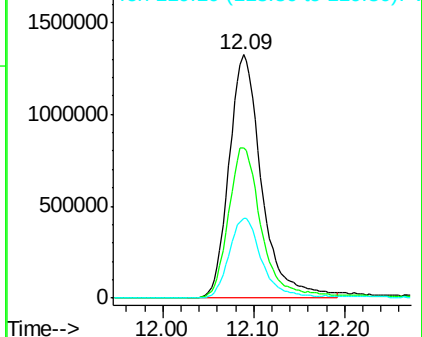
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2893
Delta R.T. -0.00 min
Lab File: VL037283.D
Acq: 27 Jul 2021 5:09

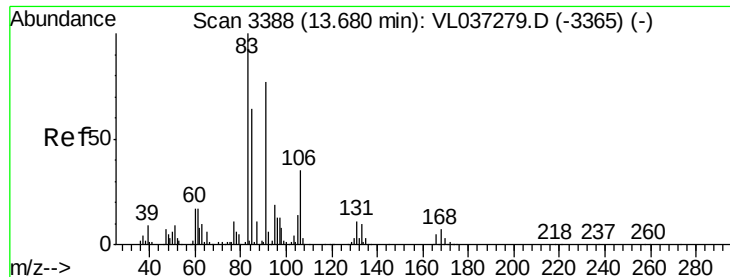
Tgt Ion	Ratio	Lower	Upper
117	100		
82	64.6	52.3	78.5
119	33.7	26.5	39.7

Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





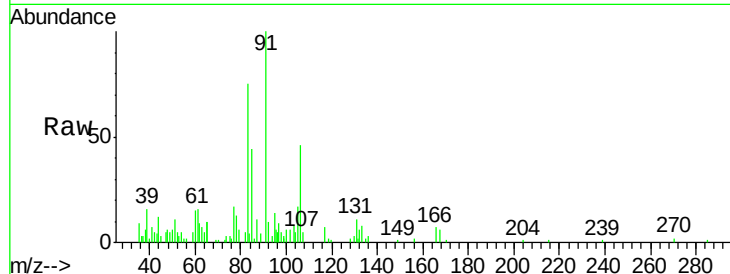
#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.112 ppbv m
 RT: 13.69 min Scan# 3390
 Delta R.T. 0.01 min
 Lab File: VL037283.D
 Acq: 27 Jul 2021 5:09

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

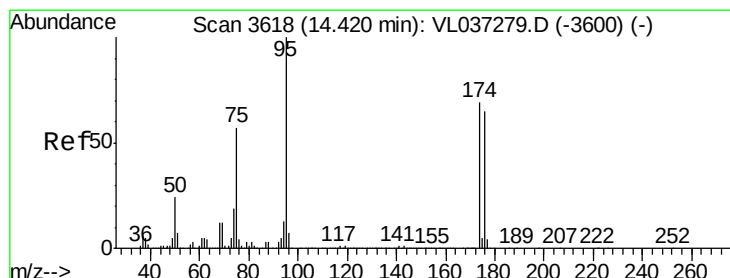
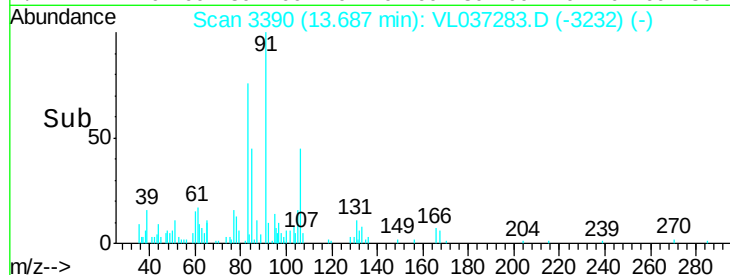
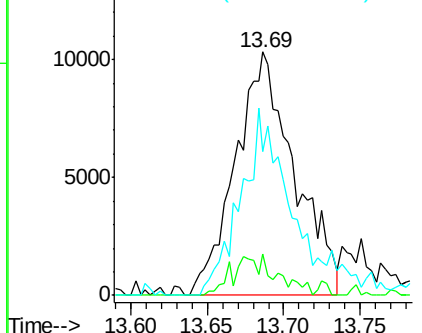
Tot Ion	Ratio	Lower	Upper
83	100		
131	0.0	5.4	16.2#
85	0.0	33.4	100.2#

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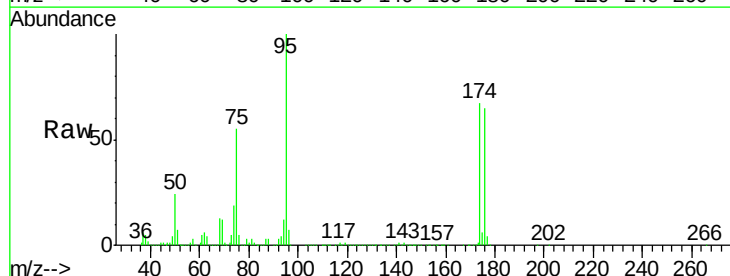


Abundance Ion 83.00 (82.70 to 83.70): VL0
 Ion 131.00 (130.70 to 131.70): V
 Ion 85.00 (84.70 to 85.70): VL0



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.802 ppbv
 RT: 14.42 min Scan# 3618
 Delta R.T. 0.00 min
 Lab File: VL037283.D
 Acq: 27 Jul 2021 5:09

Tgt Ion	Ratio	Lower	Upper
95	100		
174	73.8	56.3	84.5
175	5.4	4.3	6.5



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

