

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051821\
 Data File : VL036955.D
 Acq On : 18 May 2021 5:06
 Operator : SY/AP
 Sample : VSTDIC0.03
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

Manual Integrations
 APPROVED

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 5/20/2021 5:54:23 PM

Quant Time: May 18 07:27:53 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 18 2021
 QLast Update : Tue May 18 07:06:50 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1350309	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.15	114	3949199	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.06	117	3559200	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	2593128	9.34	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.24	62	3261	0.035	ppbv #	71
32) 1,1,1-Trichloroethane	6.48	97	8851	0.034	ppbv #	84
35) Carbon Tetrachloride	7.00	117	9807m	0.032	ppbv	
38) Trichloroethene	7.82	130	5994m	0.046	ppbv	
52) Tetrachloroethene	11.19	164	3247	0.028	ppbv #	64
63) 1,1,2,2-Tetrachloroethane	13.66	83	13375m	0.037	ppbv	

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

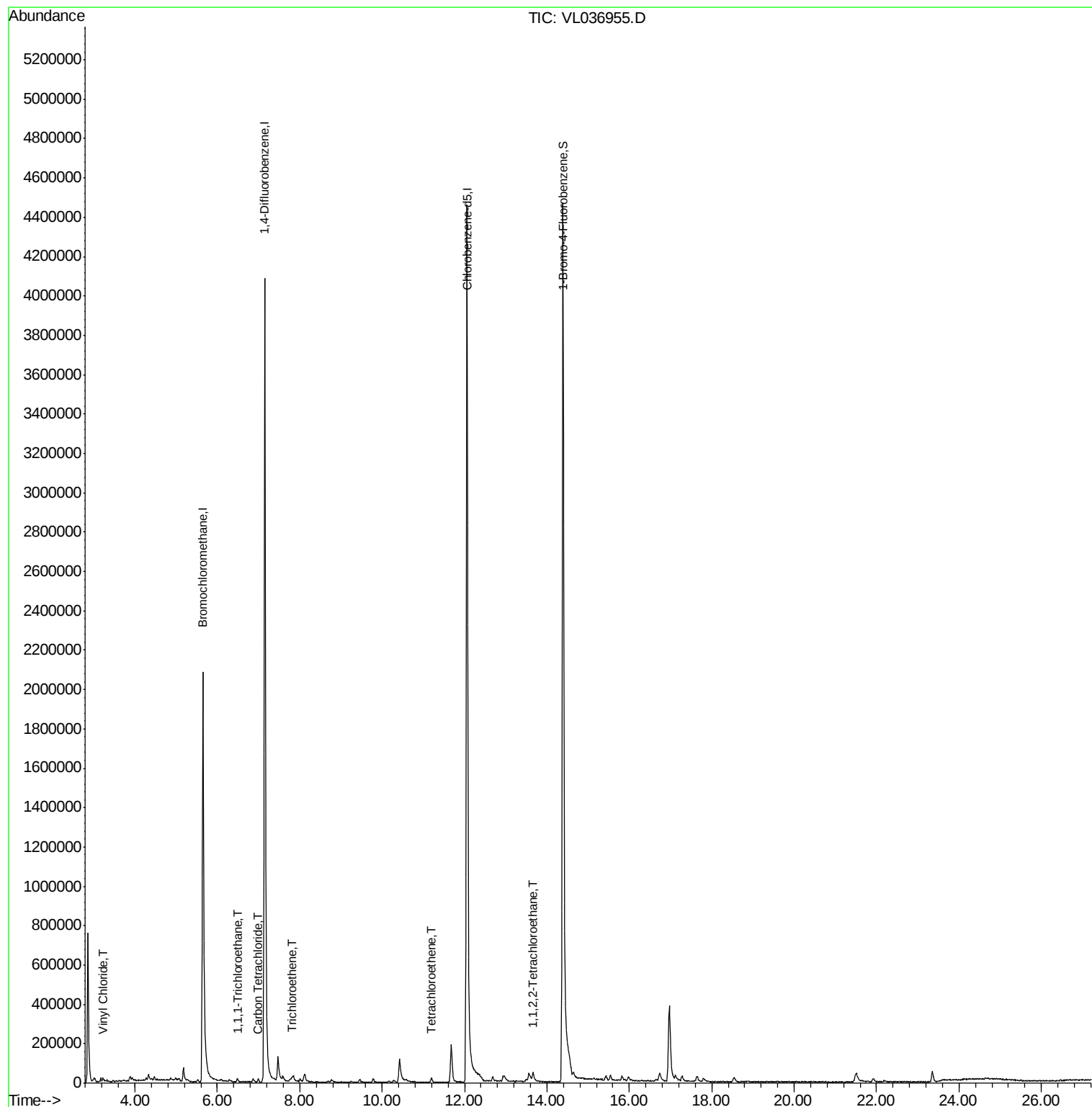
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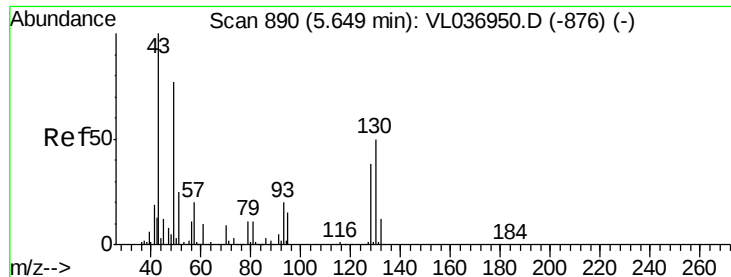
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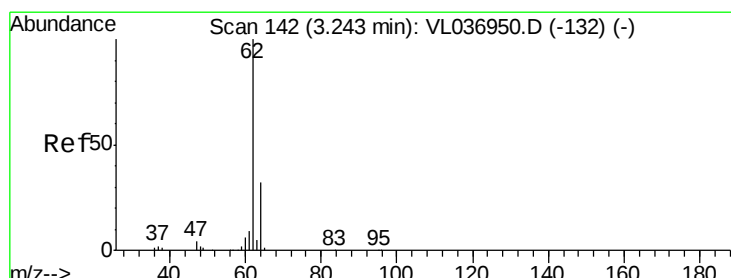
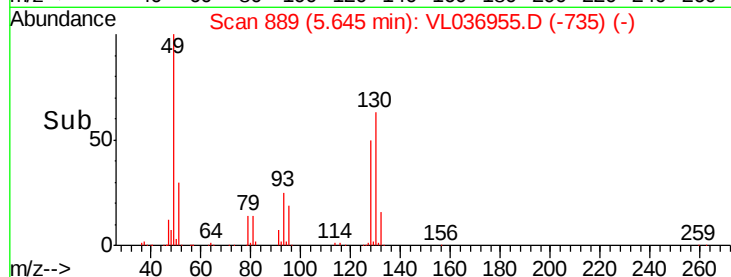
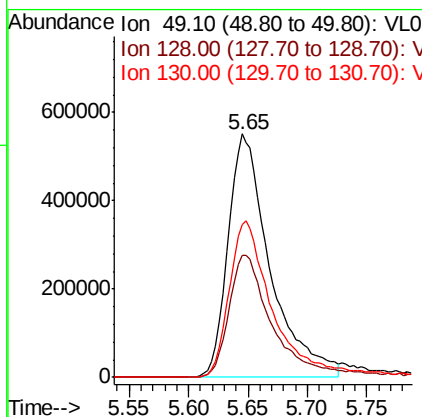
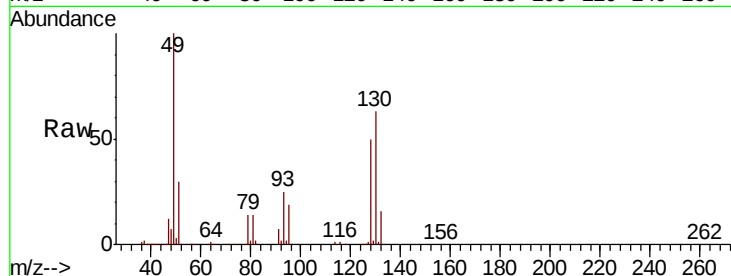
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.65 min Scan# 889
Delta R.T. -0.00 min
Lab File: VL036955.D
Acq: 18 May 2021 5:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

Tot Ion: 49 Resp: 1350309
Ion Ratio Lower Upper
49 100
128 54.6 26.9 80.7
130 69.7 33.8 101.4

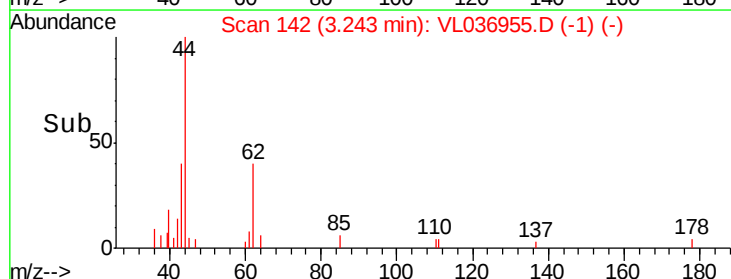
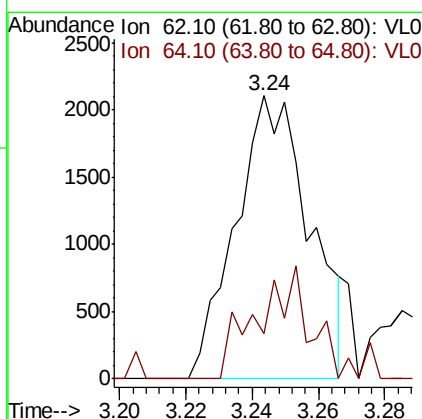
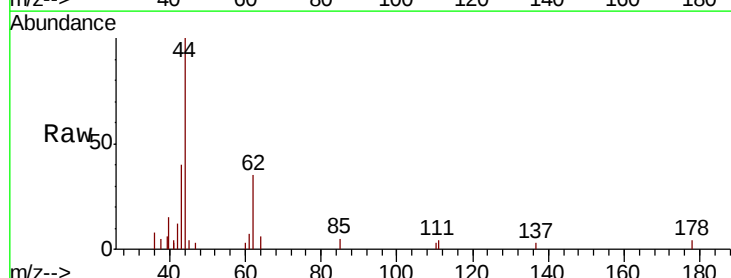
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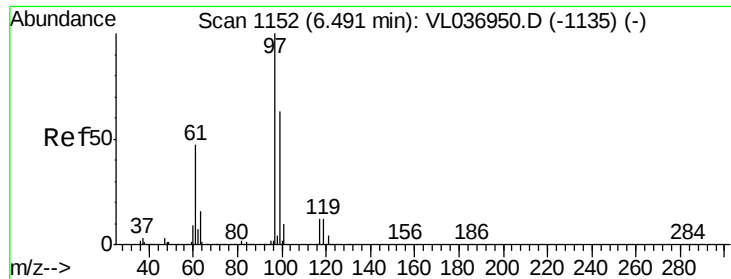
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#5
Vinyl Chloride
Concen: 0.035 ppbv
RT: 3.24 min Scan# 142
Delta R.T. -0.00 min
Lab File: VL036955.D
Acq: 18 May 2021 5:06

Tgt Ion: 62 Resp: 3261
Ion Ratio Lower Upper
62 100
64 16.1 25.9 38.9#





#32

1,1,1-Trichloroethane

Concen: 0.034 ppbv

RT: 6.48 min Scan# 1150

Delta R.T. -0.01 min

Lab File: VL036955.D

Acq: 18 May 2021 5:06

Instrument :

MSVOA_L

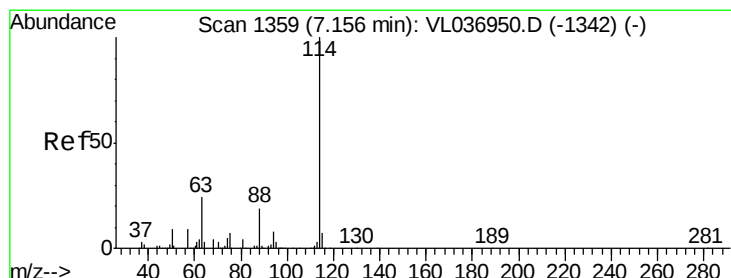
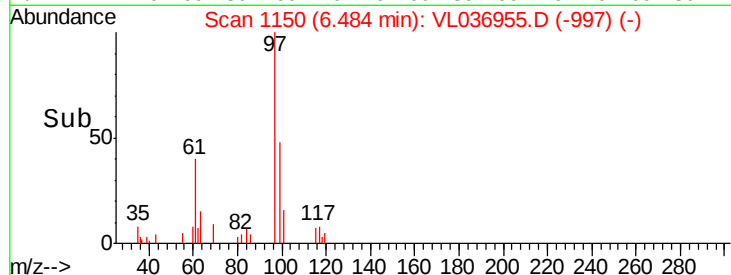
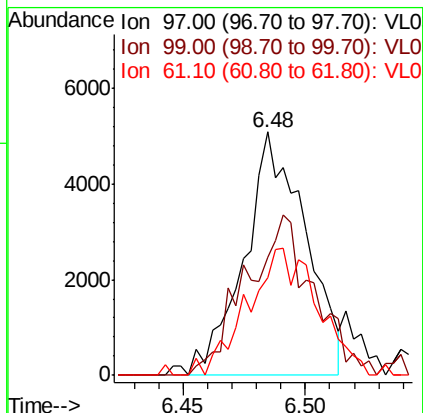
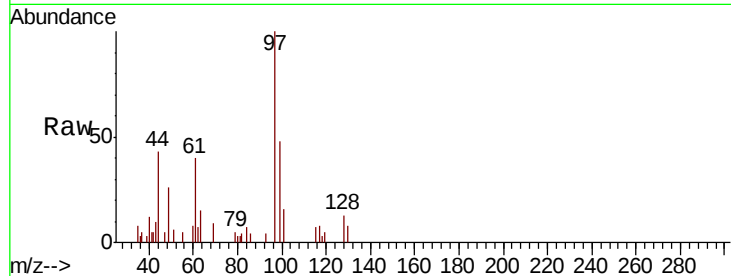
ClientSampleId :

VSTDIC0.03

Tot Ion:	97	Resp:	8851
Ion	Ratio	Lower	Upper
97	100		
99	75.4	51.9	77.9
61	60.9	37.6	56.4#

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

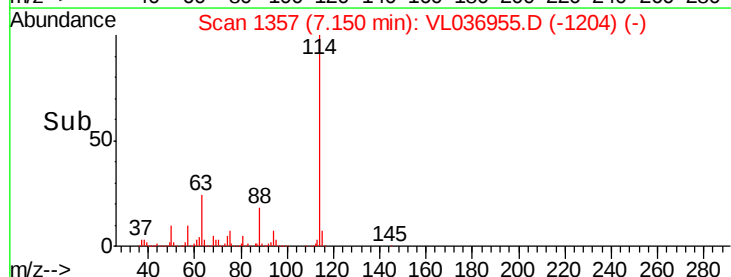
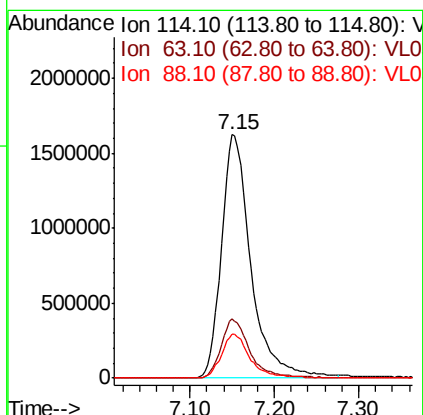
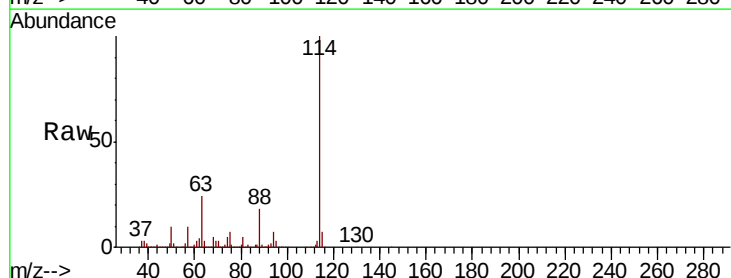
RT: 7.15 min Scan# 1357

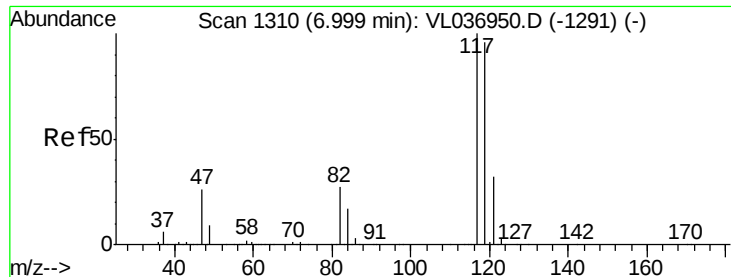
Delta R.T. -0.01 min

Lab File: VL036955.D

Acq: 18 May 2021 5:06

Tgt Ion:	114	Resp:	3949199
Ion	Ratio	Lower	Upper
114	100		
63	23.8	19.6	29.4
88	17.8	14.6	21.8





#35

Carbon Tetrachloride

Concen: 0.032 ppbv m

RT: 7.00 min Scan# 1309

Delta R.T. -0.00 min

Lab File: VL036955.D

Acq: 18 May 2021 5:06

Instrument :

MSVOA_L

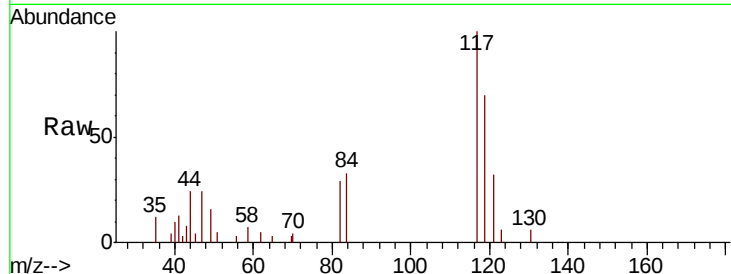
ClientSampleId :

VSTDIC0.03

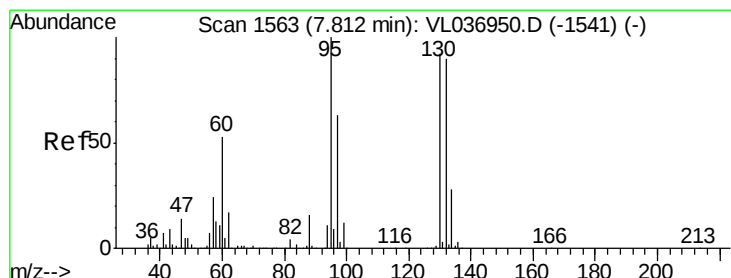
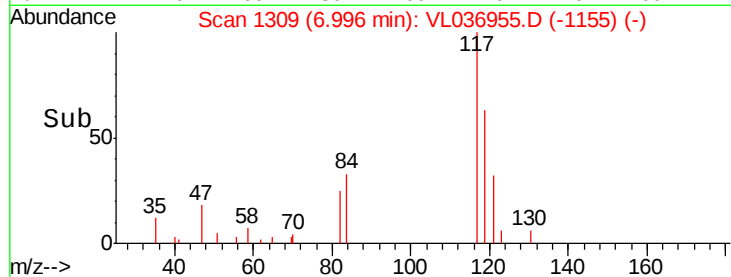
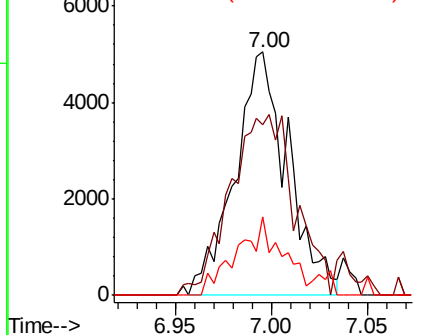
Tot Ion:	117	Resp:	9807
Ion Ratio	Lower	Upper	
117	100		
119	70.1	76.6	114.8#
121	32.1	25.8	38.6

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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: 0.046 ppbv m

RT: 7.82 min Scan# 1564

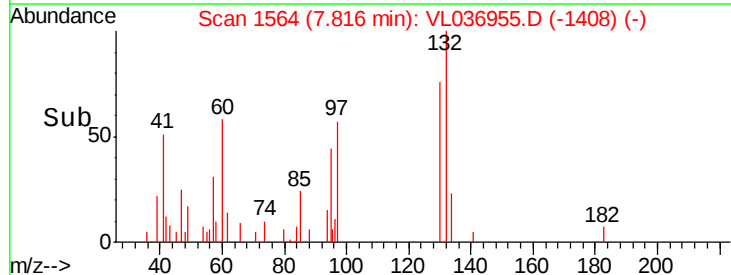
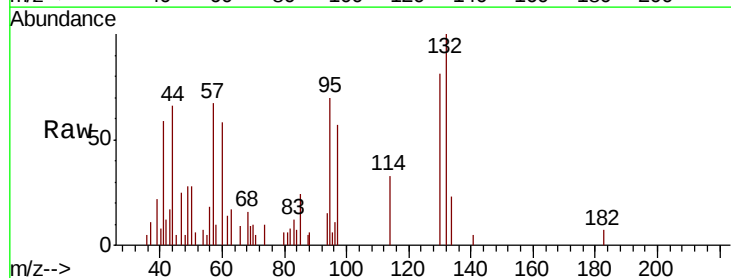
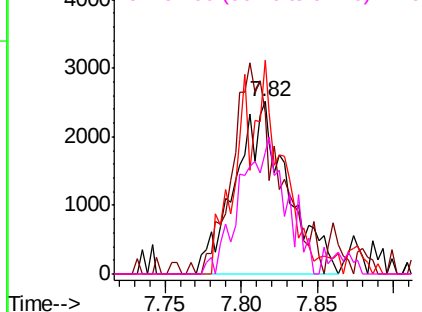
Delta R.T. 0.00 min

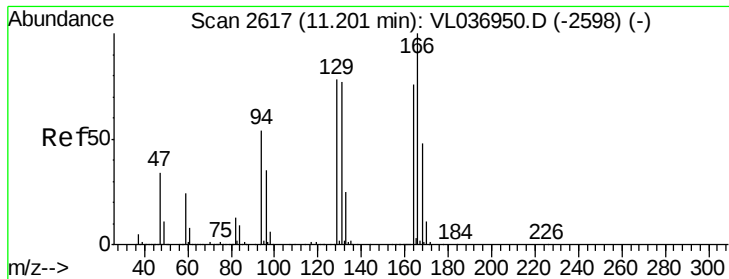
Lab File: VL036955.D

Acq: 18 May 2021 5:06

Tgt Ion:	130	Resp:	5994
Ion Ratio	Lower	Upper	
130	100		
95	86.0	86.9	130.3#
132	123.6	78.4	117.6#
97	70.7	55.0	82.6

Abundance Ion 130.00 (129.70 to 130.70): V
Ion 95.00 (94.70 to 95.70): VL0
Ion 132.00 (131.70 to 132.70): V
Ion 97.00 (96.70 to 97.70): VL0





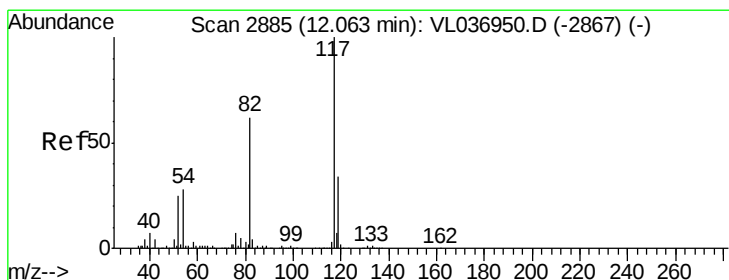
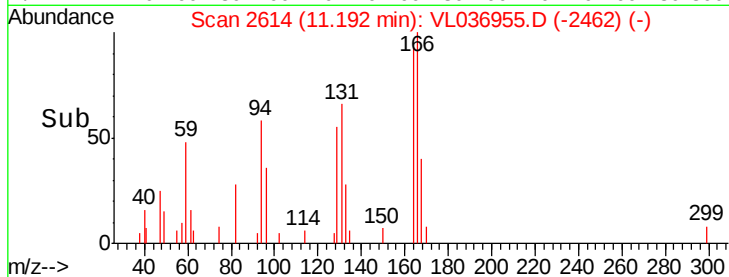
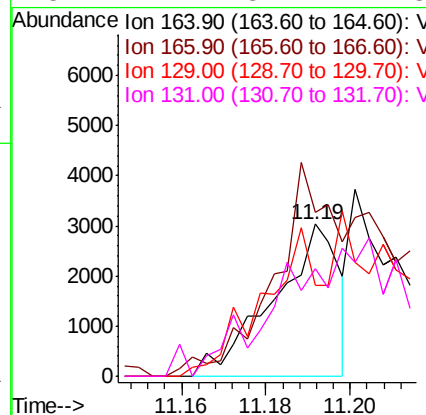
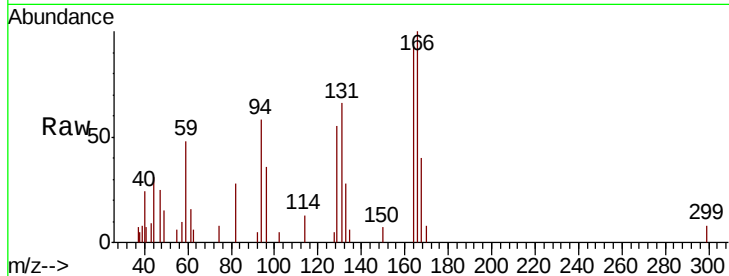
#52
Tetrachloroethene
Concen: 0.028 ppbv
RT: 11.19 min Scan# 2614
Delta R.T. -0.01 min
Lab File: VL036955.D
Acq: 18 May 2021 5:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

Tot Ion	Ratio	Lower	Upper
164	100		
166	95.2	105.5	158.3#
129	53.6	81.8	122.8#
131	71.2	81.2	121.8#

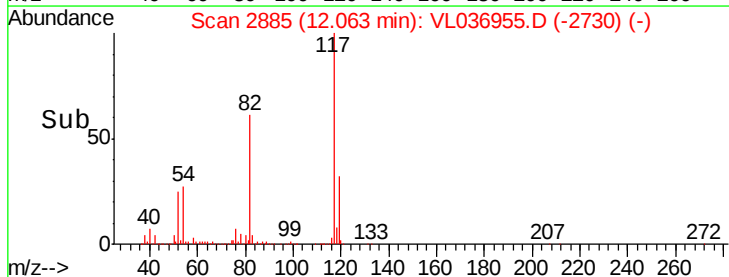
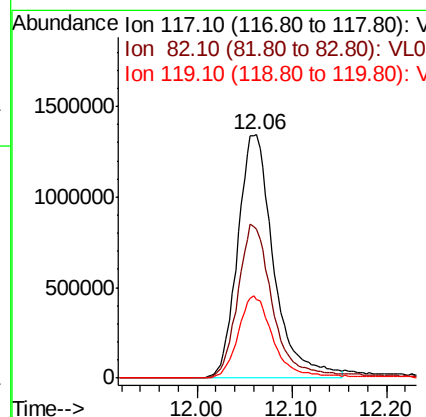
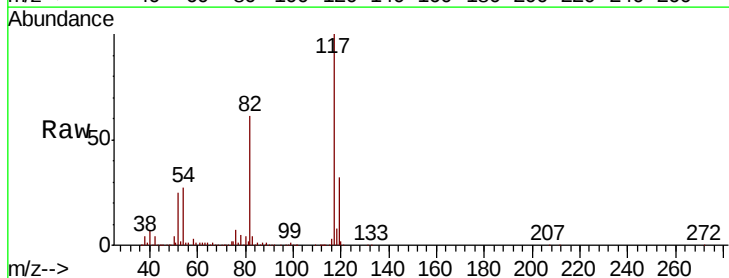
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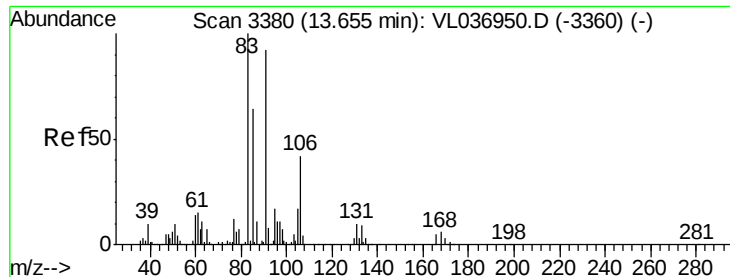
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#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.06 min Scan# 2885
Delta R.T. -0.00 min
Lab File: VL036955.D
Acq: 18 May 2021 5:06

Tgt Ion	Ratio	Lower	Upper
117	100		
82	63.8	52.6	79.0
119	33.6	46.6	70.0#





#63

1,1,2,2-Tetrachloroethane

Concen: 0.037 ppbv m

RT: 13.66 min Scan# 3383

Delta R.T. 0.01 min

Lab File: VL036955.D

Acq: 18 May 2021 5:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

Tot Ion: 83 Resp: 13375
Ion Ratio Lower Upper

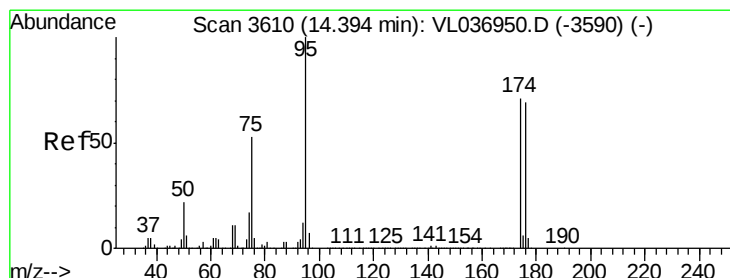
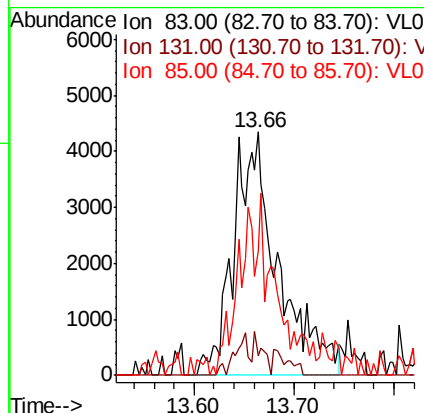
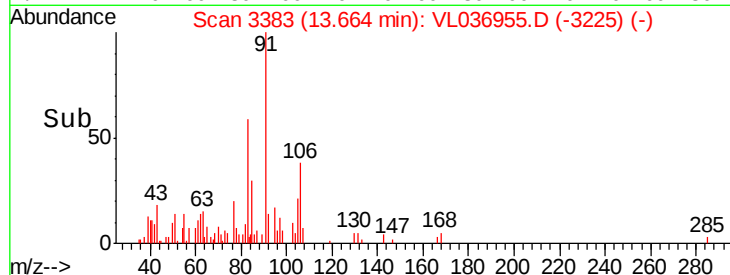
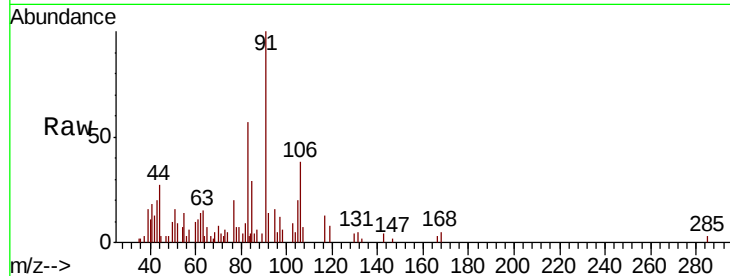
83 100

131 0.0 5.0 15.0#

85 0.0 32.9 98.6#

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#68

1-Bromo-4-Fluorobenzene

Concen: 9.343 ppbv

RT: 14.39 min Scan# 3609

Delta R.T. -0.00 min

Lab File: VL036955.D

Acq: 18 May 2021 5:06

Tgt Ion: 95 Resp: 2593128
Ion Ratio Lower Upper

95 100

174 78.9 58.4 87.6

175 5.9 4.4 6.6

