

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL010816\
 Data File : VL026652.D
 Acq On : 8 Jan 2016 18:38
 Operator : SY/AP
 Sample : VSTDICC0.03
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03

Manual Integrations
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Quant Time: Jan 08 23:10:09 2016
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL010816AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jan 08 2016
 QLast Update : Fri Jan 08 22:06:23 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.63	49	748139	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	8.30	114	2274513	10.00	ppbv	-0.01
55) Chlorobenzene-d5	13.71	117	3044788	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	16.25	95	2512606	10.24	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.87	62	2527m	0.05	ppbv	
32) 1,1,1-Trichloroethane	7.57	97	8393	0.05	ppbv	87
35) Carbon Tetrachloride	8.13	117	7431	0.04	ppbv #	73
38) Trichloroethene	9.02	130	4578m	0.05	ppbv	
52) Tetrachloroethene	12.77	164	4689m	0.05	ppbv	
63) 1,1,2,2-Tetrachloroethane	15.45	83	15536	0.06	ppbv	89

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

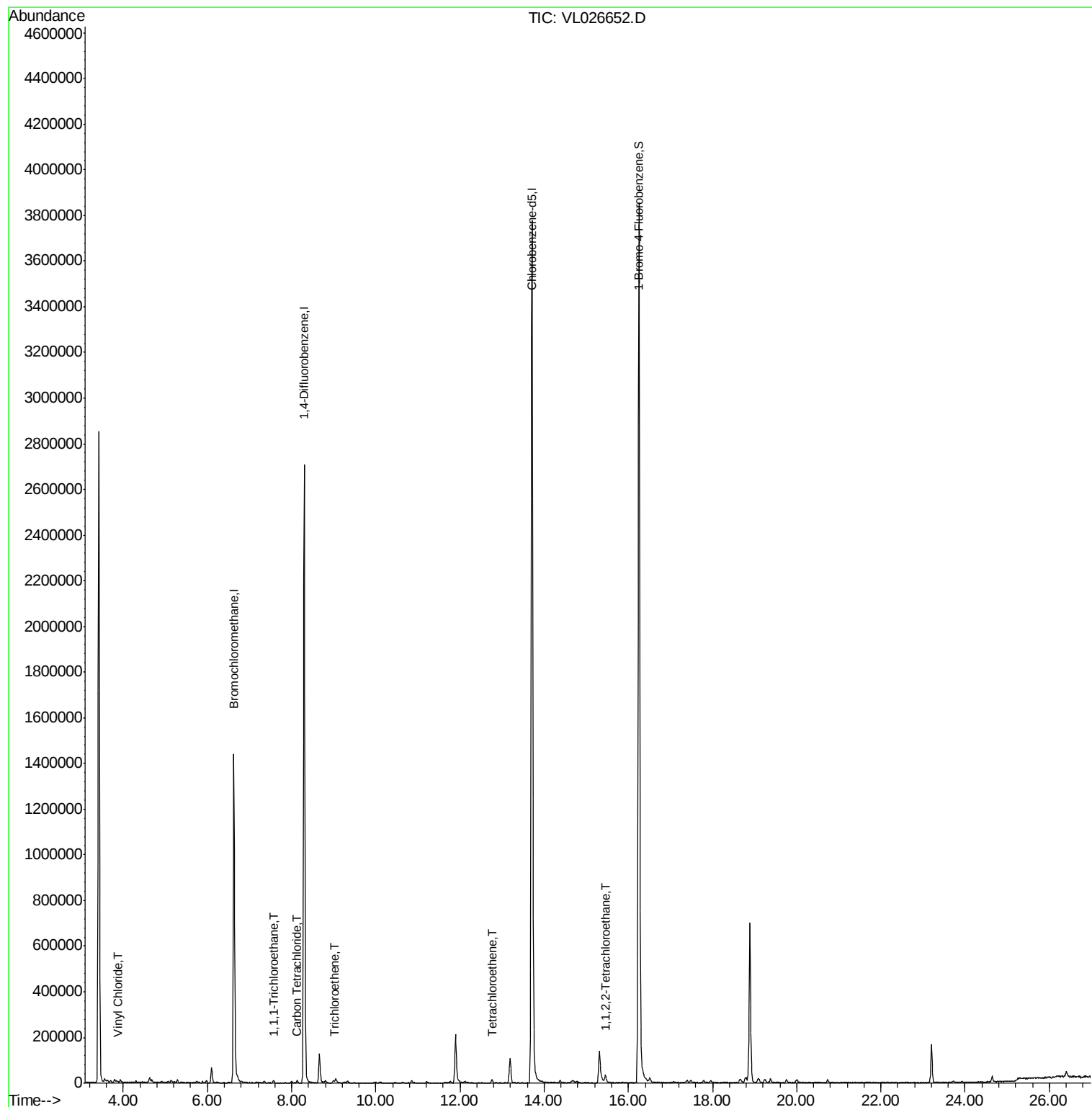
Data Path : W:\HPCHEM1\MSVOA L\DATA\VL010816\
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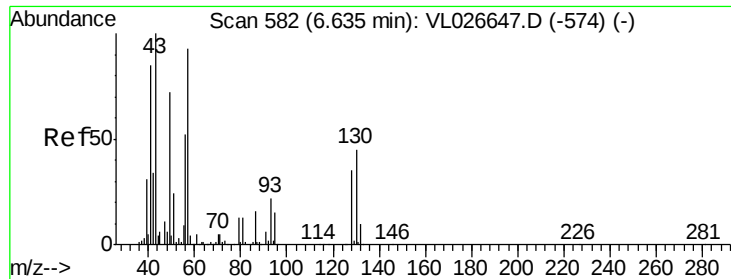
Instrument :
MSVOA_L
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VSTDICC0.03

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#1

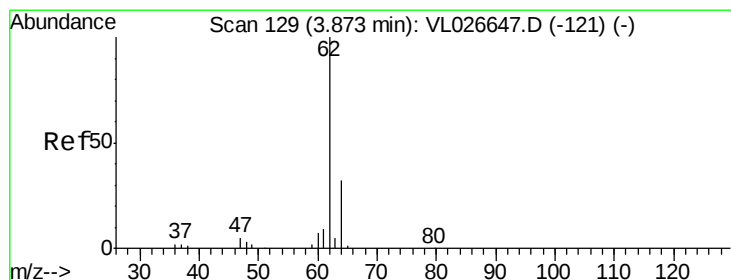
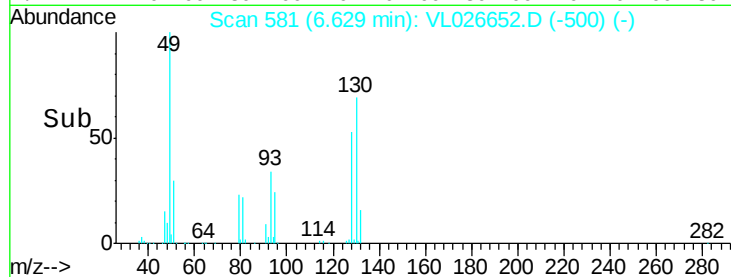
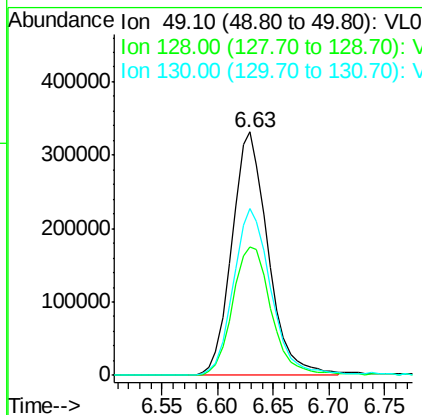
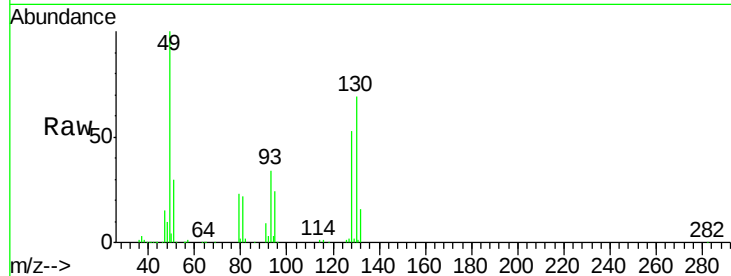
Bromochloromethane
 Concen: 10.00 ppbv
 RT: 6.63 min Scan# 581
 Delta R.T. -0.01 min
 Lab File: VL026652.D
 Acq: 8 Jan 2016 18:38

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

Tot Ion	49	128	130
Resp	748139	57.7	71.9
Lower	25.9	33.6	
Upper	77.7	100.8	

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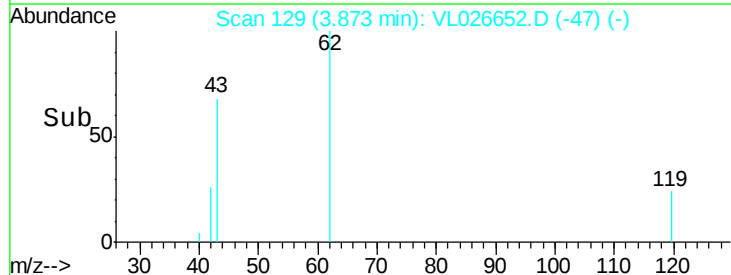
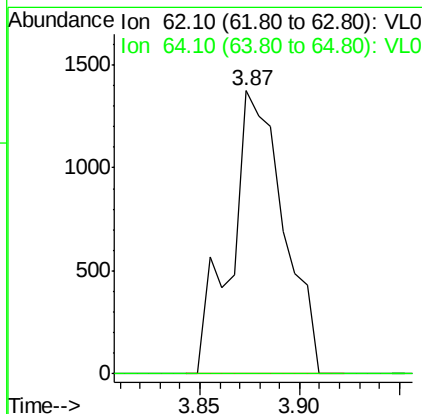
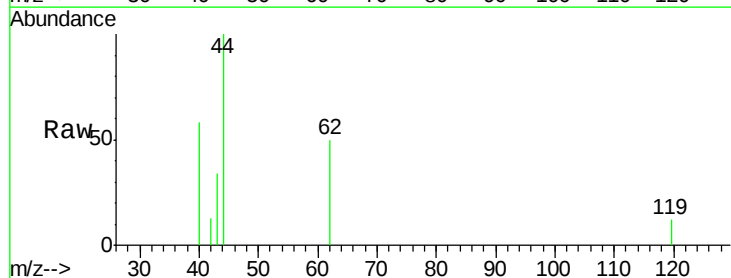
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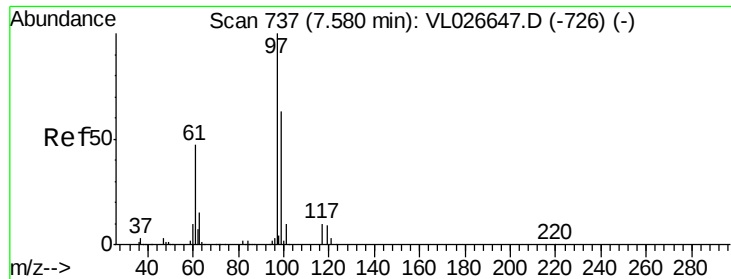


#5

Vinyl Chloride
 Concen: 0.05 ppbv m
 RT: 3.87 min Scan# 129
 Delta R.T. 0.00 min
 Lab File: VL026652.D
 Acq: 8 Jan 2016 18:38

Tgt Ion	62	64
Resp	2527	0.0
Ratio	100	0.0
Lower	25.6	
Upper	38.4	





#32

1,1,1-Trichloroethane

Concen: 0.05 ppbv

RT: 7.57 min Scan# 735

Delta R.T. -0.01 min

Lab File: VL026652.D

Acq: 8 Jan 2016 18:38

Instrument :

MSVOA_L

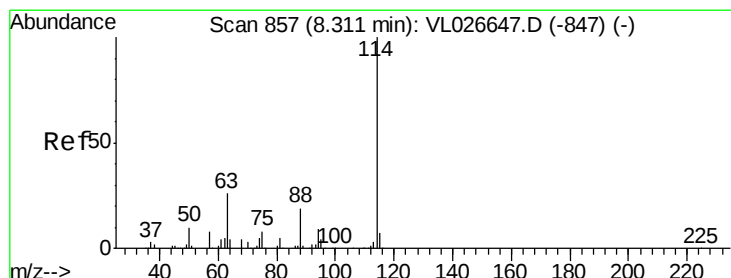
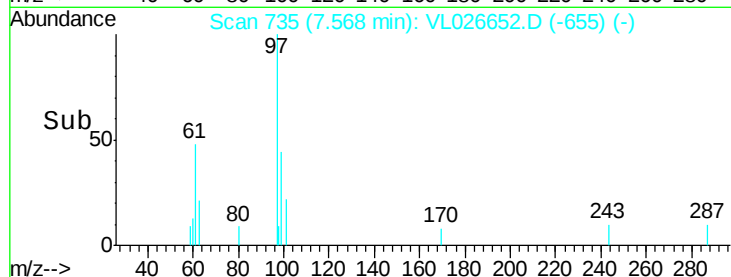
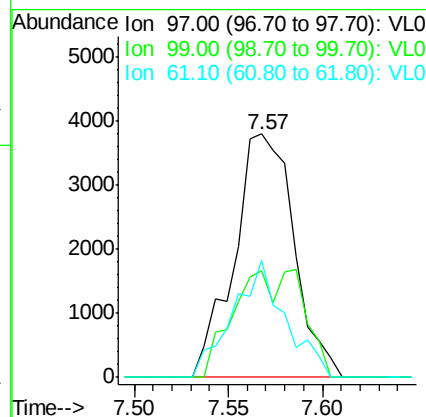
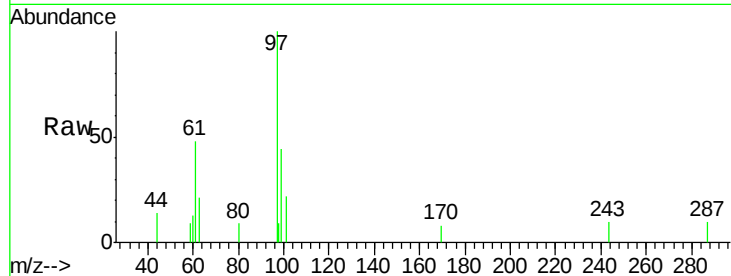
ClientSampleId :

VSTDIC0.03

Tot Ion:	97	Resp:	8393
Ion	Ratio	Lower	Upper
97	100		
99	51.4	50.8	76.2
61	41.7	38.6	58.0

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#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

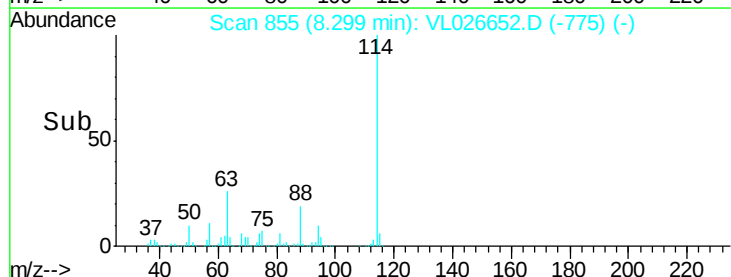
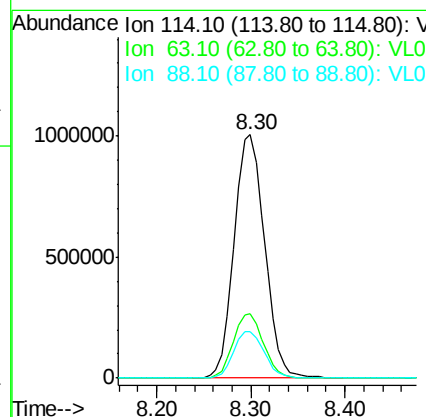
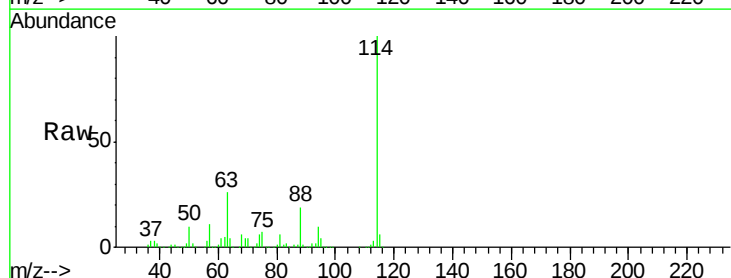
RT: 8.30 min Scan# 855

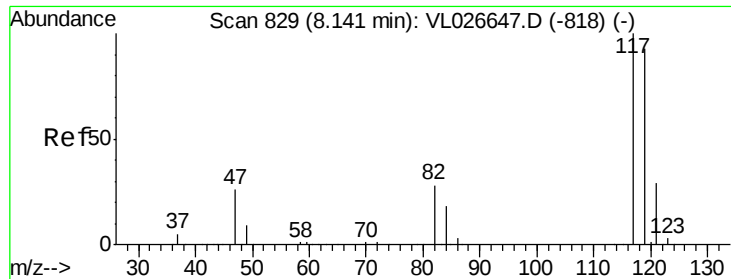
Delta R.T. -0.01 min

Lab File: VL026652.D

Acq: 8 Jan 2016 18:38

Tgt Ion:	114	Resp:	2274513
Ion	Ratio	Lower	Upper
114	100		
63	26.1	21.7	32.5
88	19.2	15.2	22.8





#35

Carbon Tetrachloride

Concen: 0.04 ppbv

RT: 8.13 min Scan# 828

Delta R.T. -0.01 min

Lab File: VL026652.D

Acq: 8 Jan 2016 18:38

Instrument :

MSVOA_L

ClientSampleId :

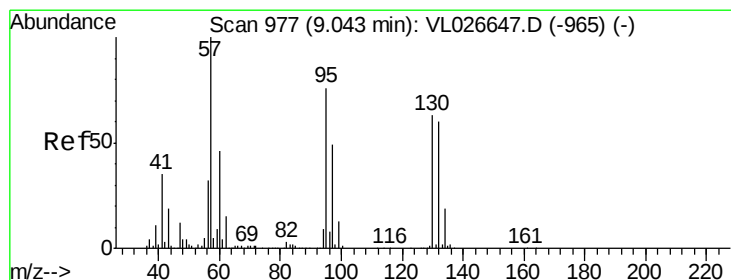
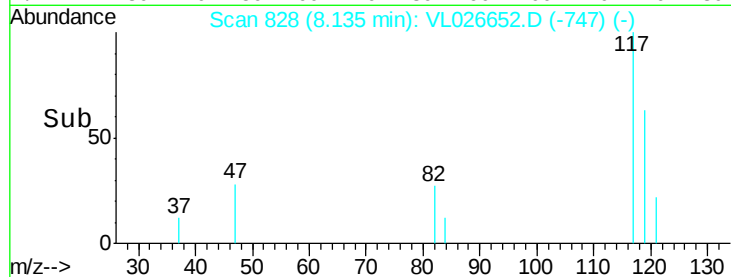
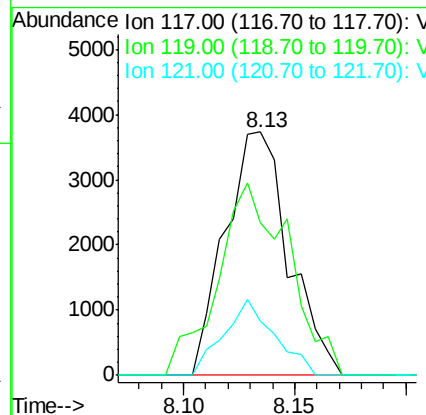
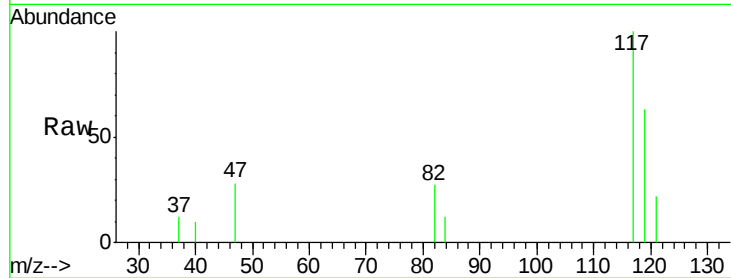
VSTDIC0.03

Tot Ion:117 Resp: 7431

Ion	Ratio	Lower	Upper
117	100		
119	62.8	74.7	112.1#
121	22.3	23.1	34.7#

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#38

Trichloroethene

Concen: 0.05 ppbv m

RT: 9.02 min Scan# 974

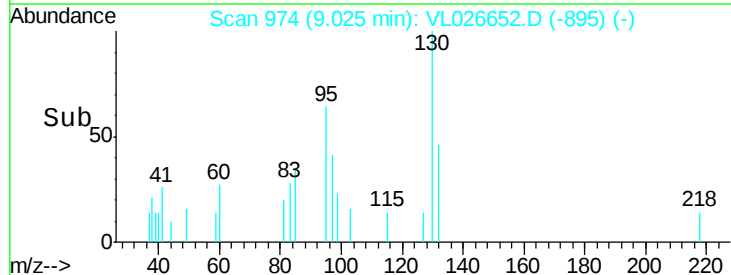
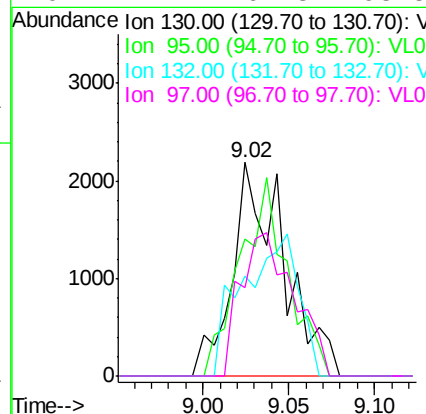
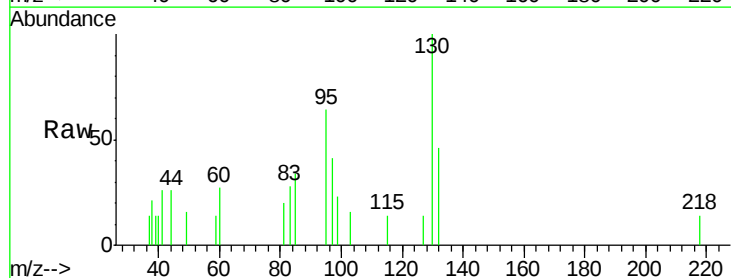
Delta R.T. -0.02 min

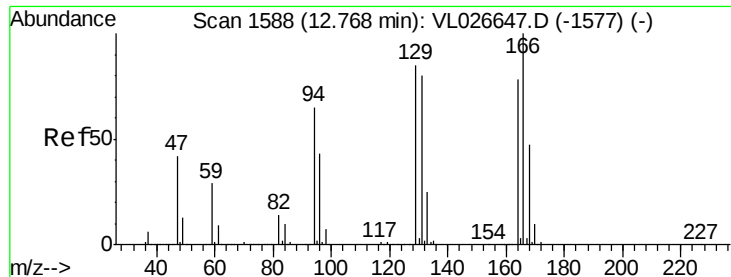
Lab File: VL026652.D

Acq: 8 Jan 2016 18:38

Tgt Ion:130 Resp: 4578

Ion	Ratio	Lower	Upper
130	100		
95	64.0	96.6	145.0#
132	46.5	76.2	114.4#
97	41.2	62.3	93.5#





#52

Tetrachloroethene

Concen: 0.05 ppbv m

RT: 12.77 min Scan# 1589

Delta R.T. 0.01 min

Lab File: VL026652.D

Acq: 8 Jan 2016 18:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

Tot Ion:164 Resp: 4689

Ion Ratio Lower Upper

164 100

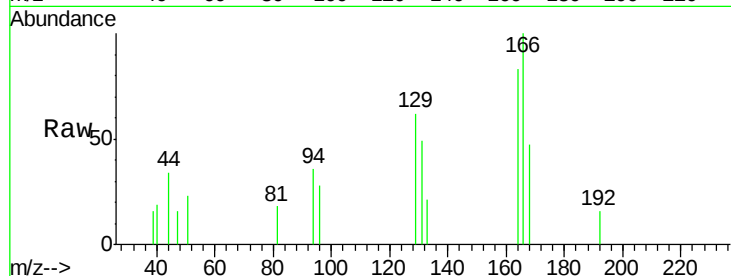
166 120.3 102.5 153.7

129 74.9 87.0 130.6#

131 59.4 82.5 123.7#

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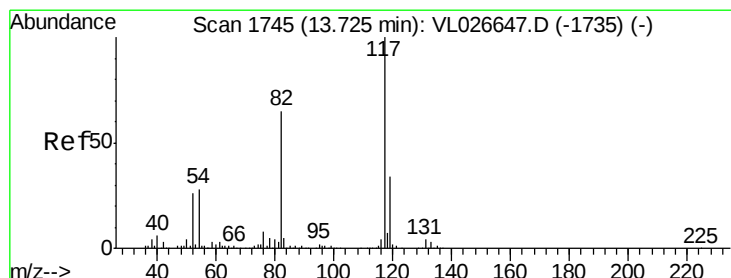
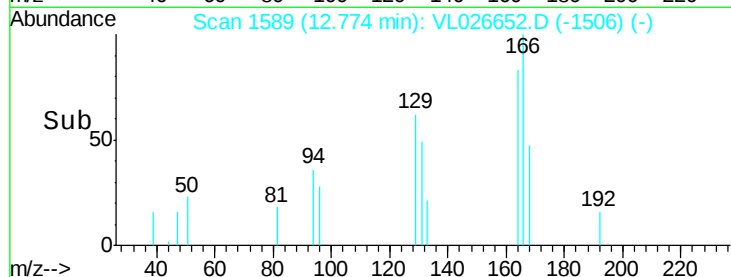
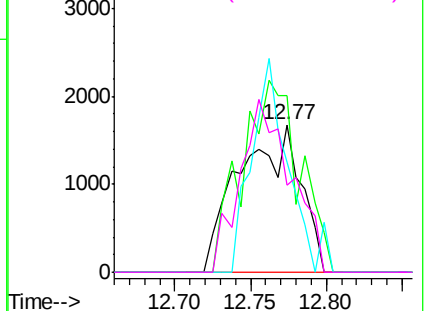


Abundance Ion 163.90 (163.60 to 164.60): V

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: 10.00 ppbv

RT: 13.71 min Scan# 1743

Delta R.T. -0.01 min

Lab File: VL026652.D

Acq: 8 Jan 2016 18:38

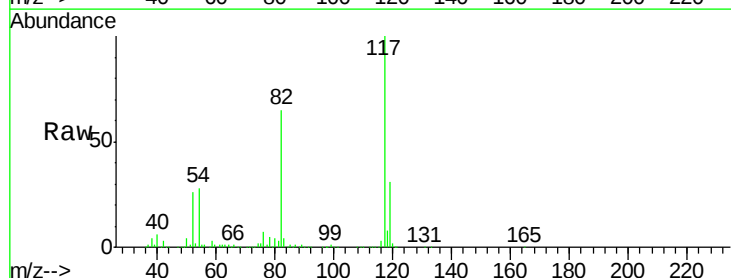
Tgt Ion:117 Resp: 3044788

Ion Ratio Lower Upper

117 100

82 66.3 52.4 78.6

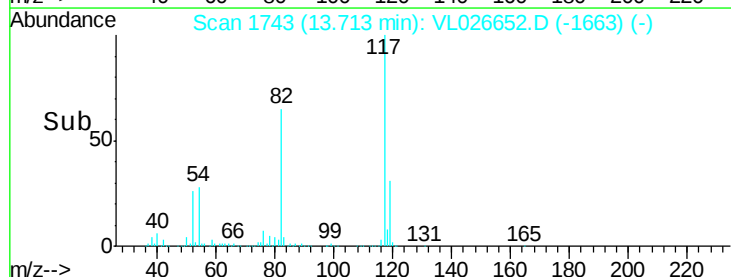
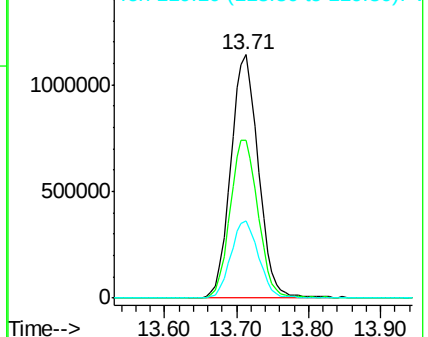
119 32.1 46.1 69.1#

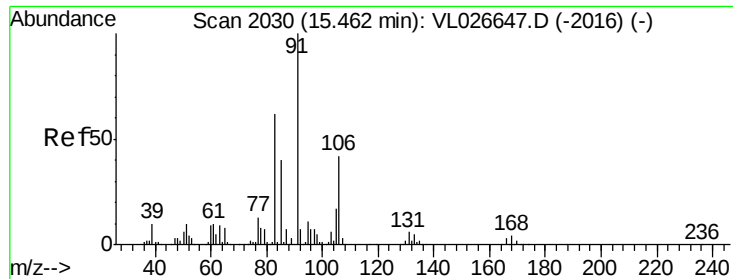


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V





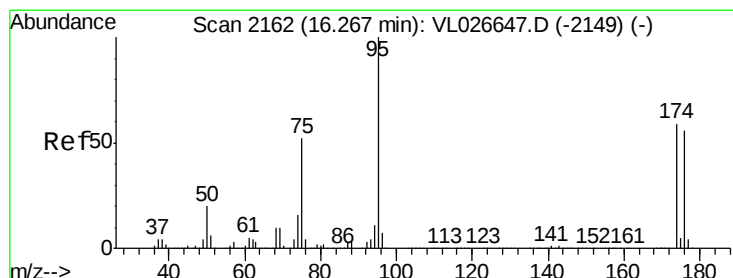
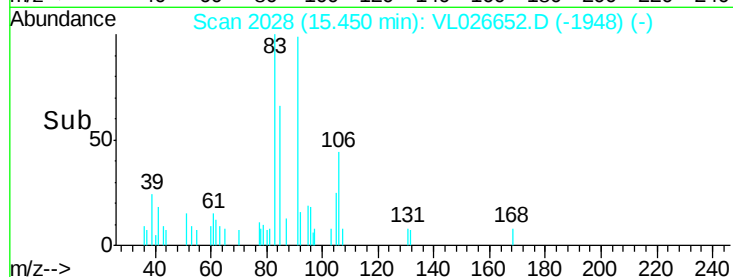
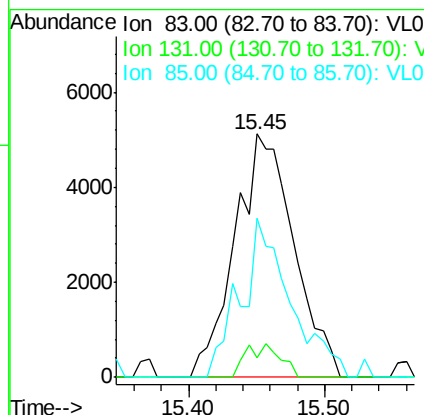
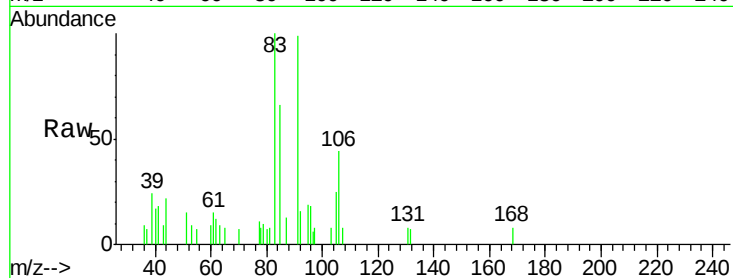
#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.06 ppbv
 RT: 15.45 min Scan# 2028
 Delta R.T. -0.01 min
 Lab File: VL026652.D
 Acq: 8 Jan 2016 18:38

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

Tot Ion	Ratio	Lower	Upper
83	100		
131	8.0	4.5	13.4
85	55.9	32.6	97.7

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#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.24 ppbv
 RT: 16.25 min Scan# 2159
 Delta R.T. -0.02 min
 Lab File: VL026652.D
 Acq: 8 Jan 2016 18:38

Tgt Ion	Ratio	Lower	Upper
95	100		
174	60.6	47.8	71.6
175	4.5	3.5	5.3

