

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL102915\
 Data File : VL026265.D
 Acq On : 29 Oct 2015 12:35
 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

Mmdadoda
 10/30/2015 12:06:37 PM

Quant Time: Oct 29 14:27:15 2015
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL102915AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 29 14:27:15 2015
 QLast Update : Thu Oct 29 13:56:09 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.68	49	572206	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	8.36	114	1583146	10.00	ppbv	-0.01
55) Chlorobenzene-d5	13.79	117	1825050	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	16.33	95	1417390	10.22	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.92	62	1896	0.02	ppbv	# 65
32) 1,1,1-Trichloroethane	7.63	97	5588	0.02	ppbv	98
35) Carbon Tetrachloride	8.20	117	4979	0.02	ppbv	98
38) Trichloroethene	9.10	130	3994	0.02	ppbv	# 82
52) Tetrachloroethene	12.83	164	4089	0.02	ppbv	# 87
63) 1,1,2,2-Tetrachloroethane	15.54	83	8725m	0.02	ppbv	

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

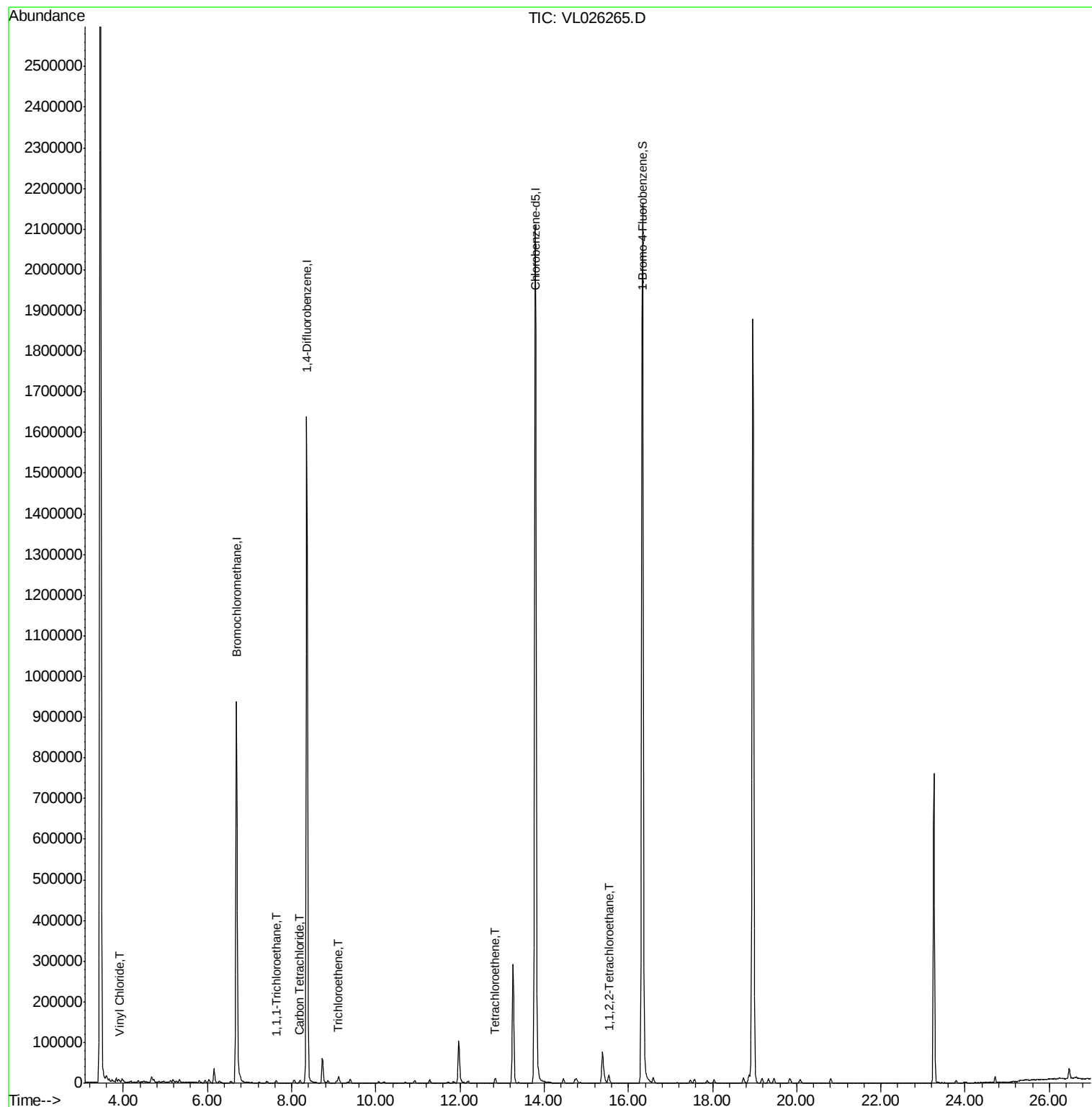
Data Path : W:\HPCHEM1\MSVOA L\DATA\VL102915\
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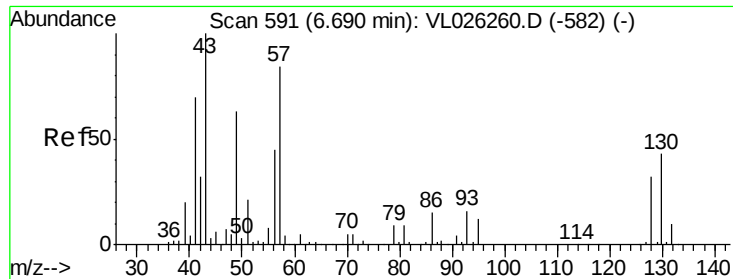
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

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#1

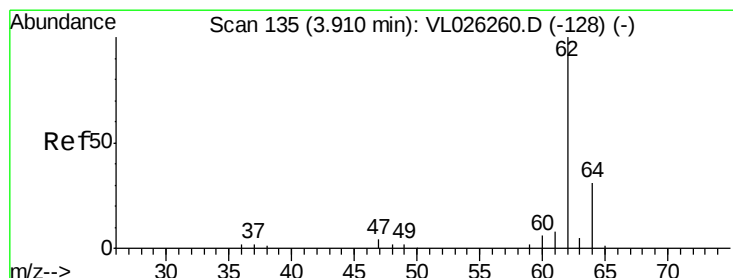
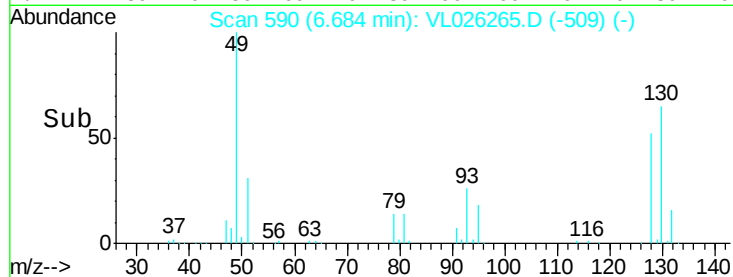
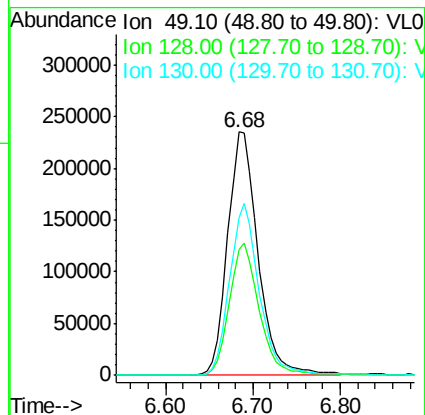
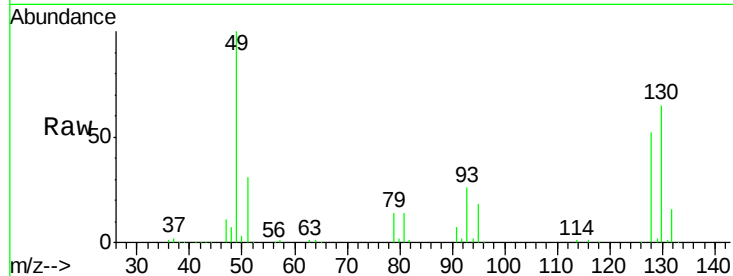
Bromochloromethane
 Concen: 10.00 ppbv
 RT: 6.68 min Scan# 590
 Delta R.T. -0.01 min
 Lab File: VL026265.D
 Acq: 29 Oct 2015 12:35

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

Tot Ion: 49 Resp: 572206
 Ion Ratio Lower Upper
 49 100
 128 53.9 26.7 80.1
 130 69.4 34.4 103.2

Manual Integrations
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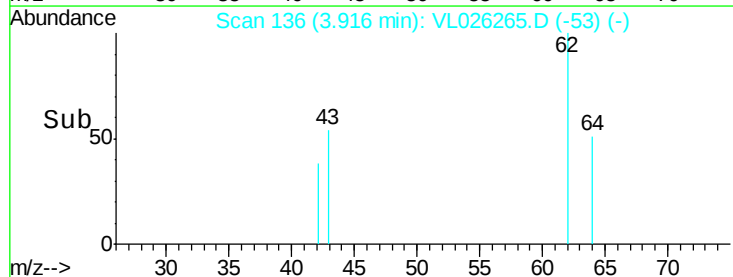
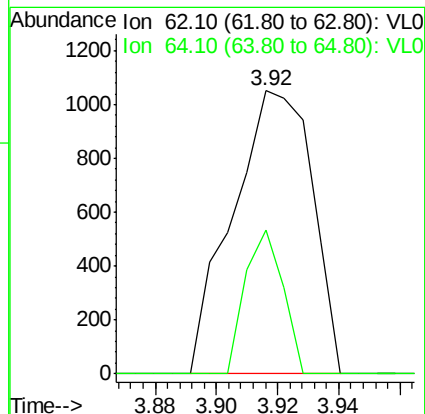
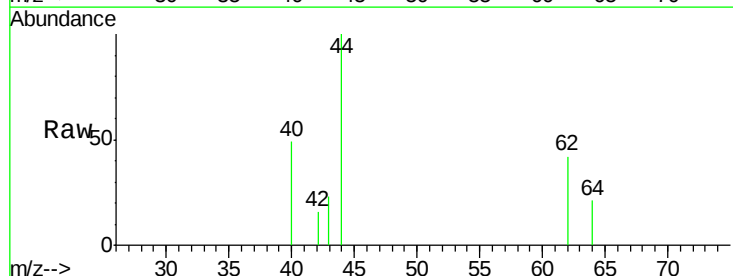
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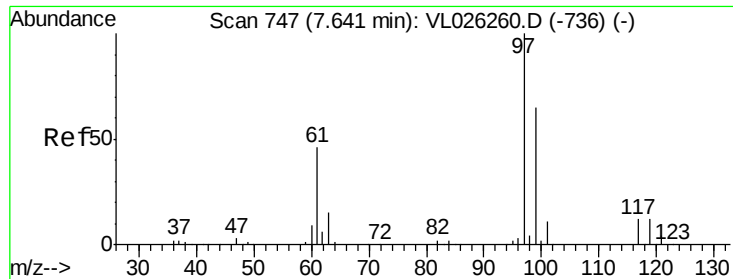


#5

Vinyl Chloride
 Concen: 0.02 ppbv
 RT: 3.92 min Scan# 136
 Delta R.T. 0.01 min
 Lab File: VL026265.D
 Acq: 29 Oct 2015 12:35

Tgt Ion: 62 Resp: 1896
 Ion Ratio Lower Upper
 62 100
 64 50.6 24.9 37.3#





#32

1,1,1-Trichloroethane

Concen: 0.02 ppbv

RT: 7.63 min Scan# 745

Delta R.T. -0.01 min

Lab File: VL026265.D

Acq: 29 Oct 2015 12:35

Instrument :

MSVOA_L

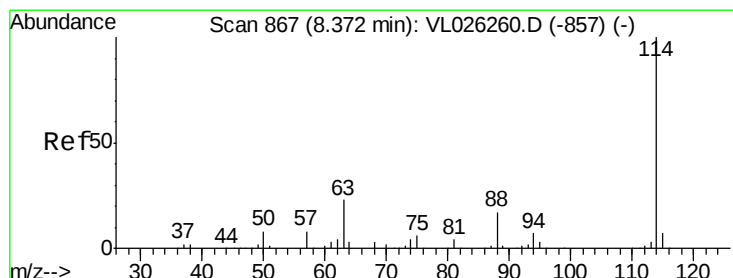
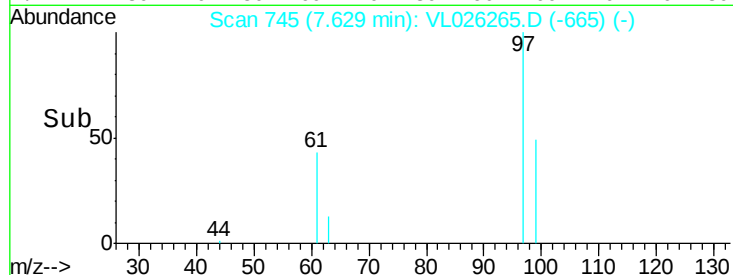
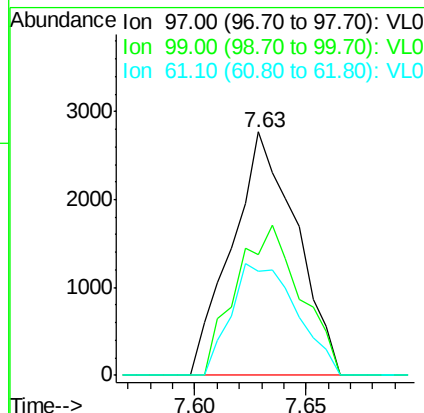
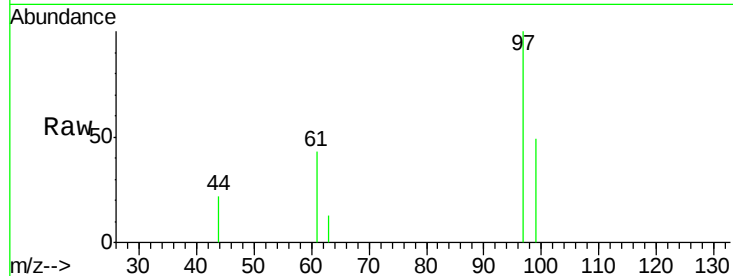
ClientSampleId :

VSTDIC0.03

Tot Ion:	97	Resp:	5588
Ion	Ratio	Lower	Upper
97	100		
99	61.6	51.0	76.6
61	46.6	37.1	55.7

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#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

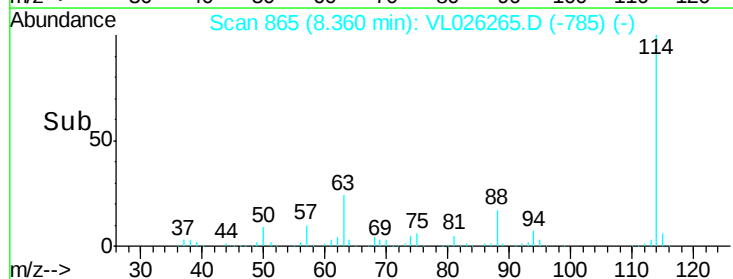
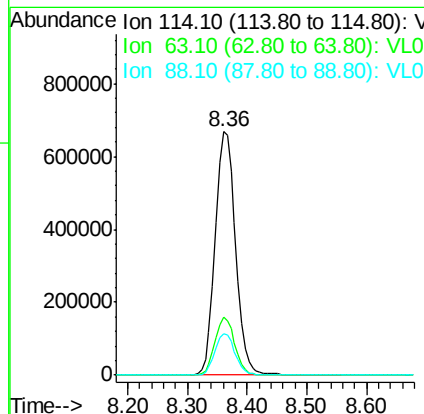
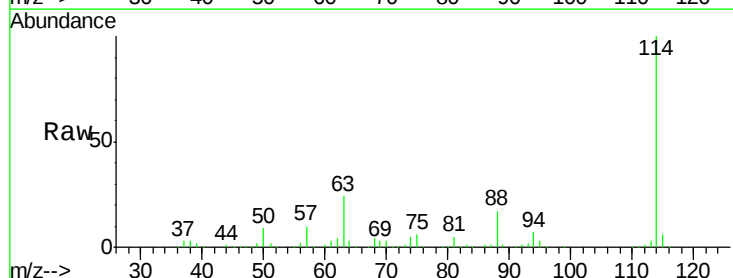
RT: 8.36 min Scan# 865

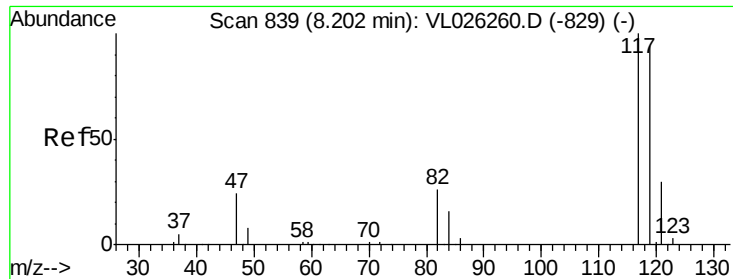
Delta R.T. -0.01 min

Lab File: VL026265.D

Acq: 29 Oct 2015 12:35

Tgt Ion:	114	Resp:	1583146
Ion	Ratio	Lower	Upper
114	100		
63	23.2	18.6	28.0
88	16.9	13.4	20.2





#35

Carbon Tetrachloride

Concen: 0.02 ppbv

RT: 8.20 min Scan# 838

Delta R.T. -0.01 min

Lab File: VL026265.D

Acq: 29 Oct 2015 12:35

Instrument :

MSVOA_L

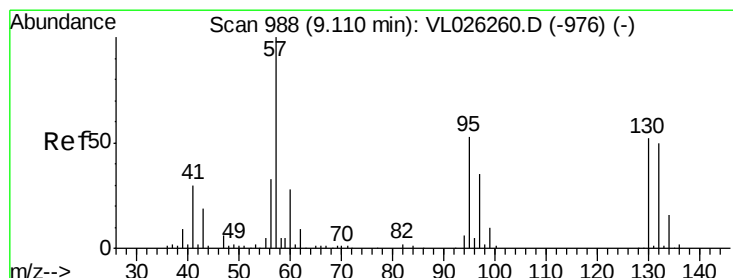
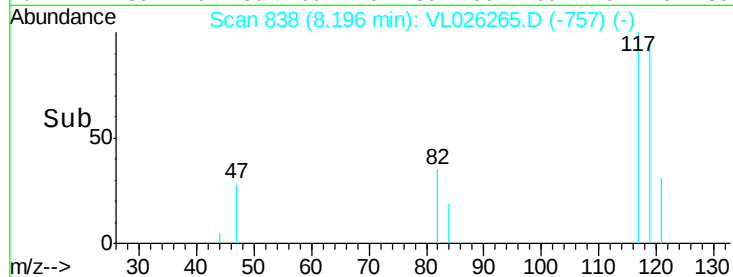
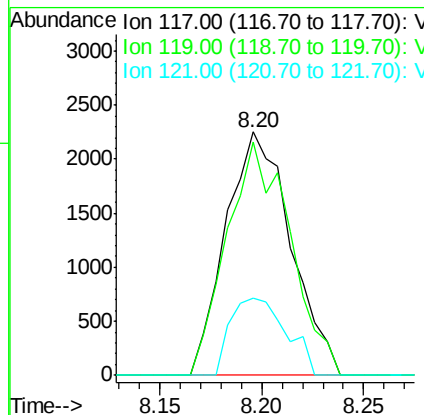
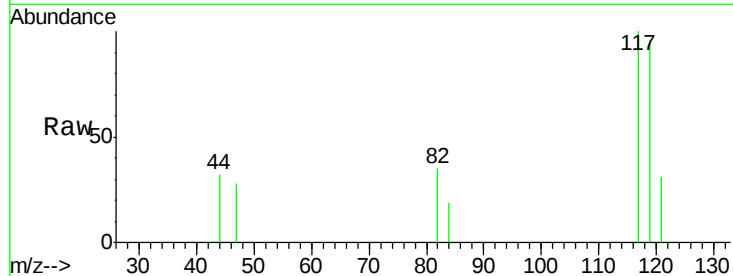
ClientSampleId :

VSTDIC0.03

Tot Ion:	117	Resp:	4979
Ion	Ratio	Lower	Upper
117	100		
119	95.8	75.2	112.8
121	31.5	24.2	36.2

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#38

Trichloroethene

Concen: 0.02 ppbv

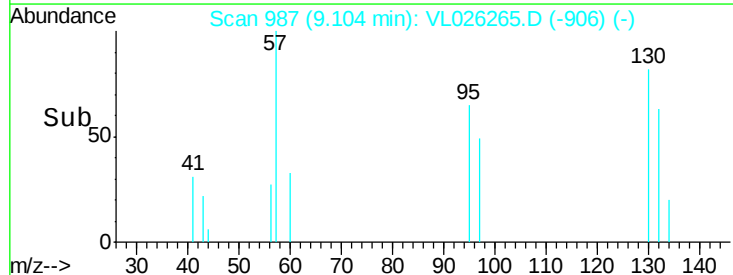
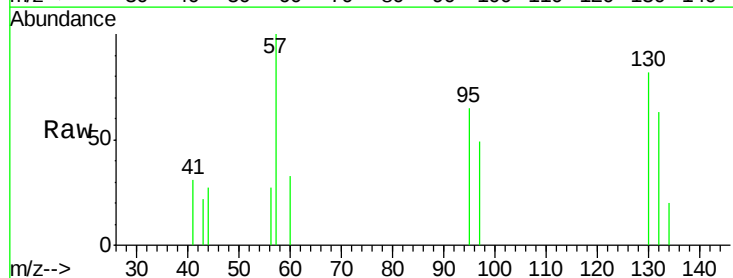
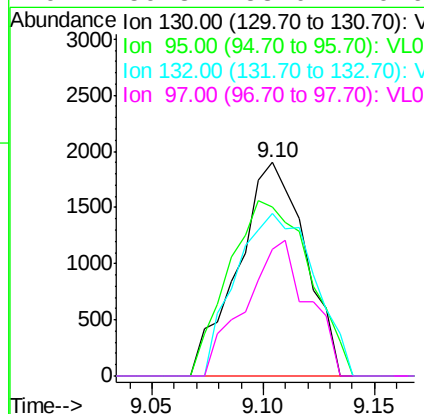
RT: 9.10 min Scan# 987

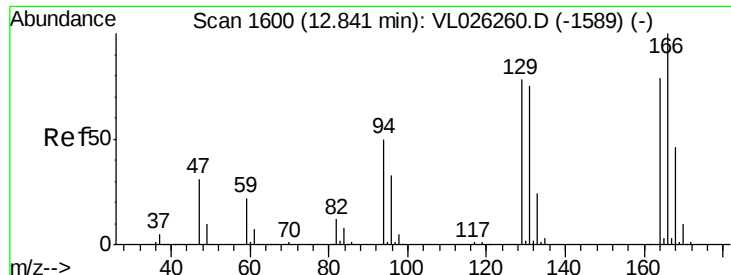
Delta R.T. -0.01 min

Lab File: VL026265.D

Acq: 29 Oct 2015 12:35

Tgt Ion:	130	Resp:	3994
Ion	Ratio	Lower	Upper
130	100		
95	79.0	80.8	121.2#
132	76.2	76.2	114.2
97	59.3	53.0	79.6





#52

Tetrachloroethene

Concen: 0.02 ppbv

RT: 12.83 min Scan# 1599

Delta R.T. -0.01 min

Lab File: VL026265.D

Acq: 29 Oct 2015 12:35

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

Tot Ion:164 Resp: 4089

Ion Ratio Lower Upper

164 100

166 128.1 101.4 152.0

129 77.8 78.8 118.2#

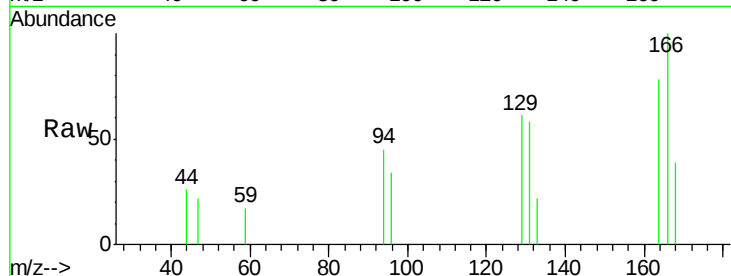
131 73.9 75.6 113.4#

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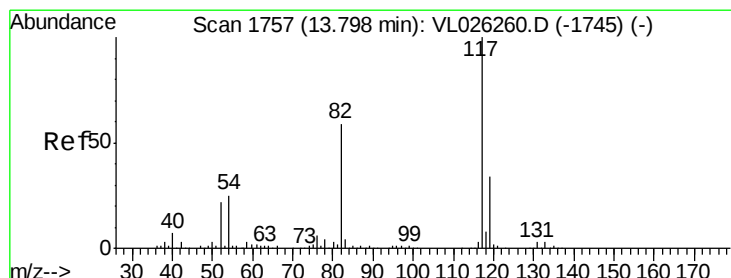
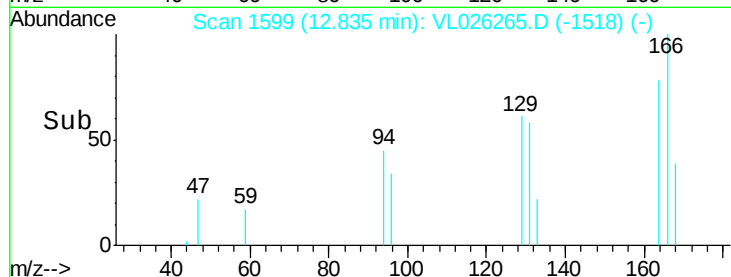
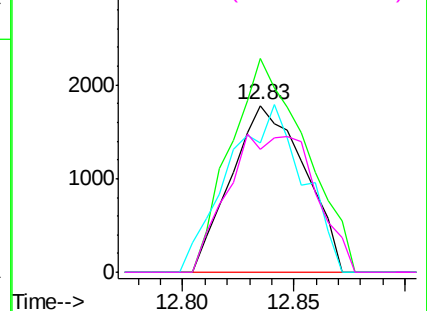


Abundance Ion 163.90 (163.60 to 164.60): V

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: 13.79 min Scan# 1755

Delta R.T. -0.01 min

Lab File: VL026265.D

Acq: 29 Oct 2015 12:35

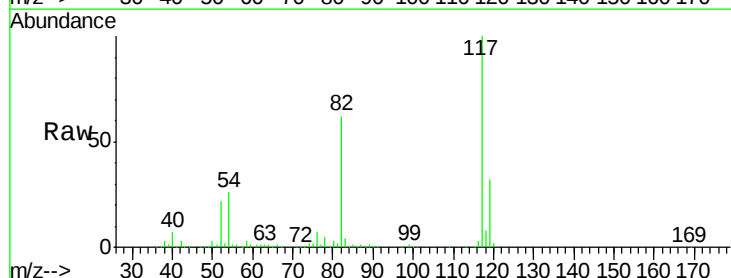
Tgt Ion:117 Resp: 1825050

Ion Ratio Lower Upper

117 100

82 0.0 48.2 72.4#

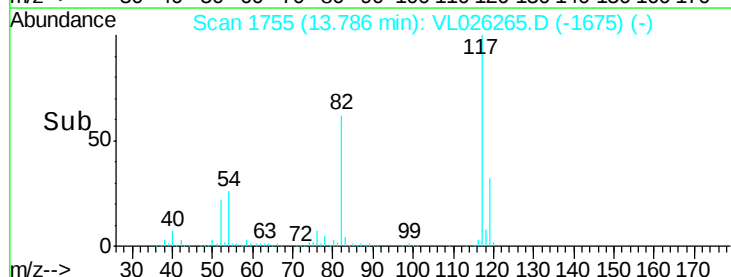
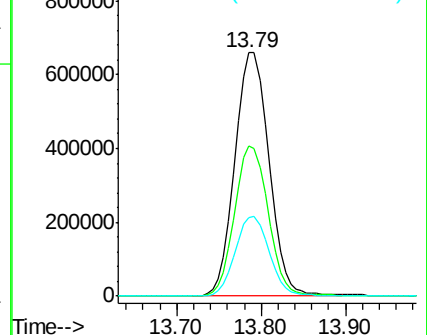
119 33.1 46.2 69.2#

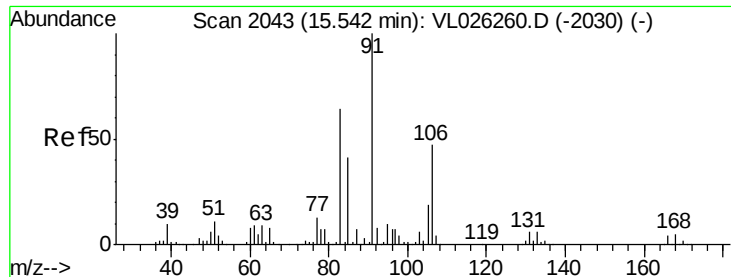


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V





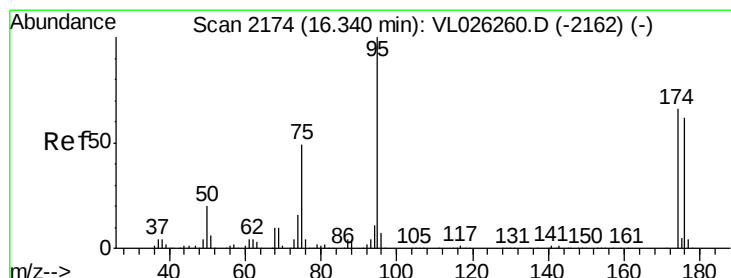
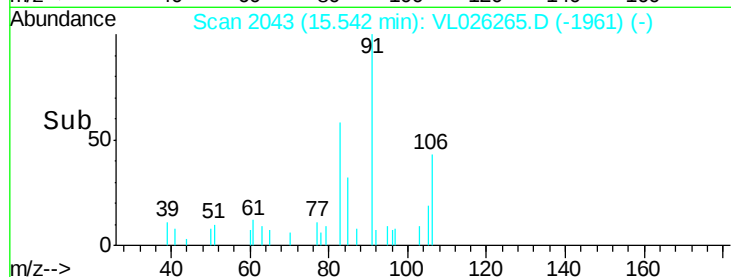
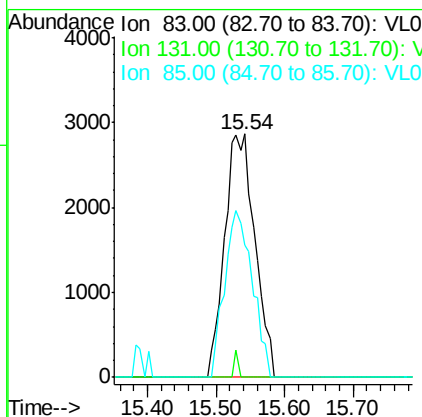
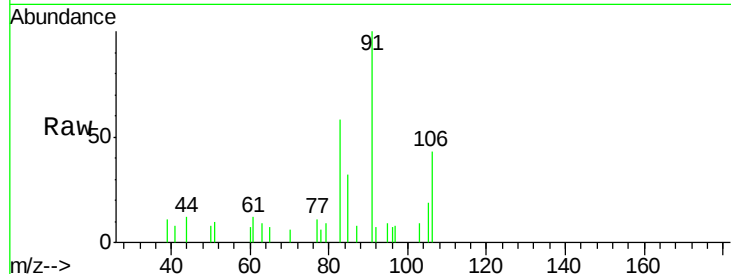
#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.02 ppbv m
 RT: 15.54 min Scan# 2043
 Delta R.T. 0.00 min
 Lab File: VL026265.D
 Acq: 29 Oct 2015 12:35

Instrument :
 MSVOA_L
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 VSTDIC0.03

Tot Ion	83	Resp	725
Ion Ratio	100	Lower	Upper
131	0.0	4.6	13.8#
85	62.5	32.4	97.2

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#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.22 ppbv
 RT: 16.33 min Scan# 2173
 Delta R.T. -0.01 min
 Lab File: VL026265.D
 Acq: 29 Oct 2015 12:35

Tgt Ion	95	Resp	1417390
Ion Ratio	100	Lower	Upper
174	65.7	52.9	79.3
175	4.8	3.8	5.8

