

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL070715\
 Data File : VL025608.D
 Acq On : 7 Jul 2015 13:12
 Operator : SY/MD
 Sample : VSTDIC0.1
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

Manual Integrations
 APPROVED

sam
 7/8/2015 11:05:56 AM

Quant Time: Jul 07 14:56:38 2015
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL070715AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Tue Jul 07 2015
 QLast Update : Tue Jul 07 13:08:42 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.65	49	601818	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	8.32	114	1590337	10.00	ppbv	0.00
55) Chlorobenzene-d5	13.74	117	2057813	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	16.29	95	1745744	10.27	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.89	62	4515	0.11	ppbv	91
32) 1,1,1-Trichloroethane	7.59	97	16045	0.11	ppbv	100
35) Carbon Tetrachloride	8.16	117	16805	0.12	ppbv #	84
38) Trichloroethene	9.07	130	6192	0.09	ppbv #	88
52) Tetrachloroethene	12.79	164	6718m	0.09	ppbv	
63) 1,1,2,2-Tetrachloroethane	15.47	83	20900	0.10	ppbv	99

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

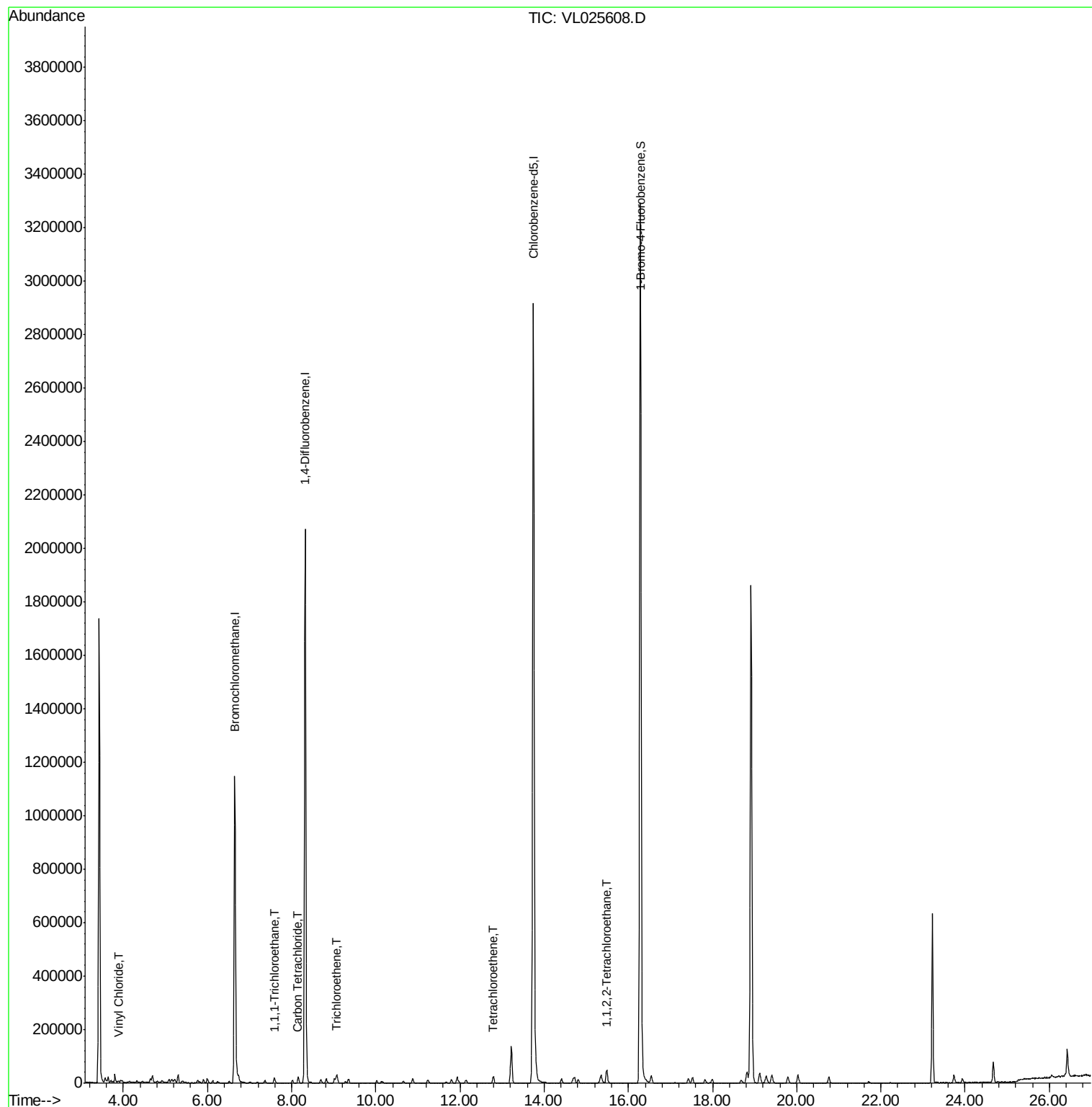
Data Path : W:\HPCHEM1\MSVOA L\DATA\VL070715\
Data File : VL025608.D
Acq On : 7 Jul 2015 13:12
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

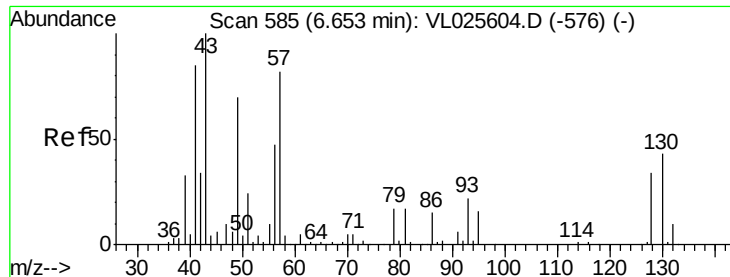
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

sam
7/8/2015 11:05:56 AM

Quant Time: Jul 07 14:56:38 2015
Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL070715AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Jul
QLast Update : Tue Jul 07 13:08:42 2015
Response via : Initial Calibration





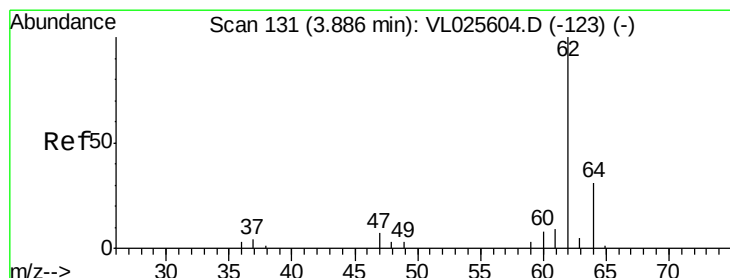
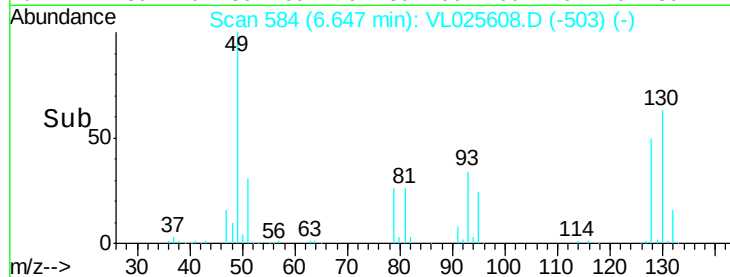
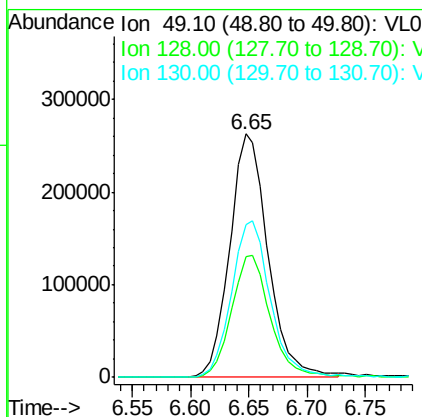
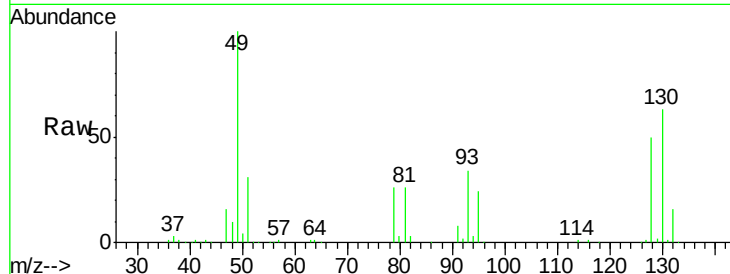
#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 6.65 min Scan# 584
Delta R.T. -0.01 min
Lab File: VL025608.D
Acq: 7 Jul 2015 13:12

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

Tot Ion	Ratio	Lower	Upper
49	100		
128	51.4	25.4	76.0
130	66.4	31.9	95.9

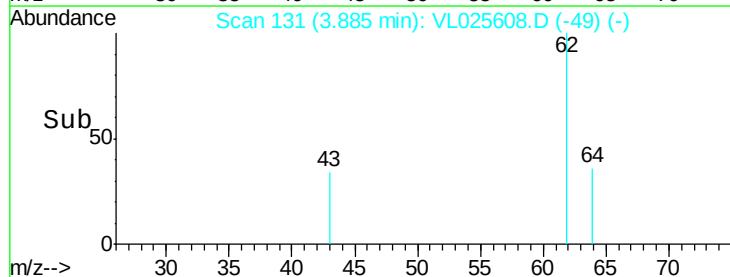
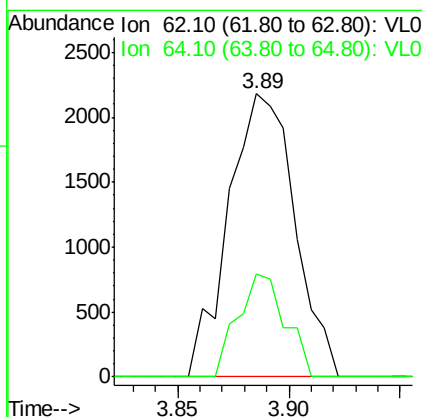
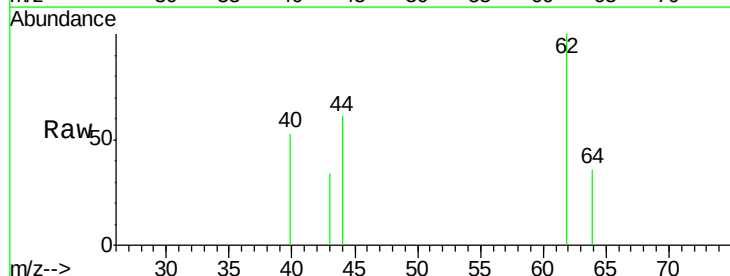
Manual Integrations
APPROVED

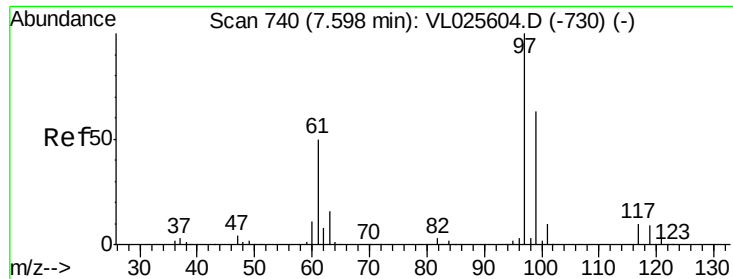
sam
7/8/2015 11:05:56 AM



#5
Vinyl Chloride
Concen: 0.11 ppbv
RT: 3.89 min Scan# 131
Delta R.T. -0.00 min
Lab File: VL025608.D
Acq: 7 Jul 2015 13:12

Tgt Ion	Ratio	Lower	Upper
62	100		
64	36.3	25.0	37.6





#32

1,1,1-Trichloroethane

Concen: 0.11 ppbv

RT: 7.59 min Scan# 739

Delta R.T. -0.01 min

Lab File: VL025608.D

Acq: 7 Jul 2015 13:12

Instrument :

MSVOA_L

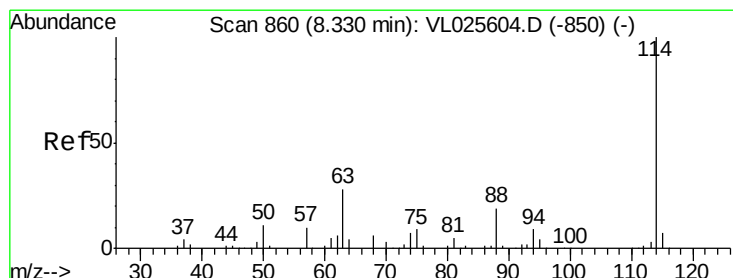
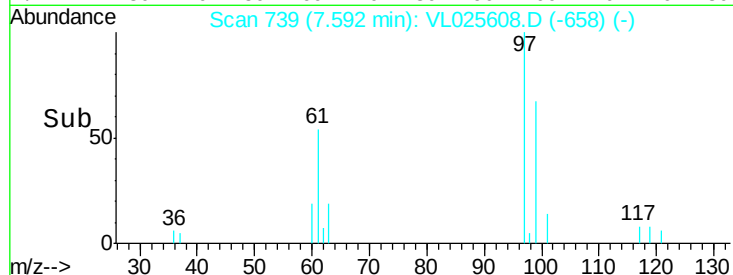
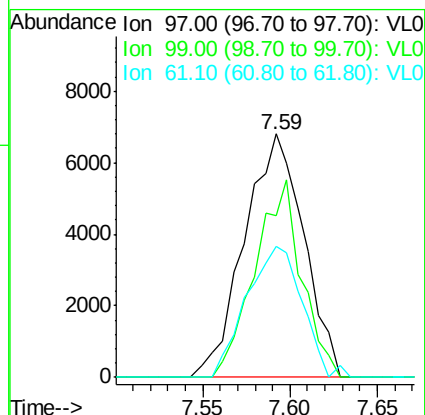
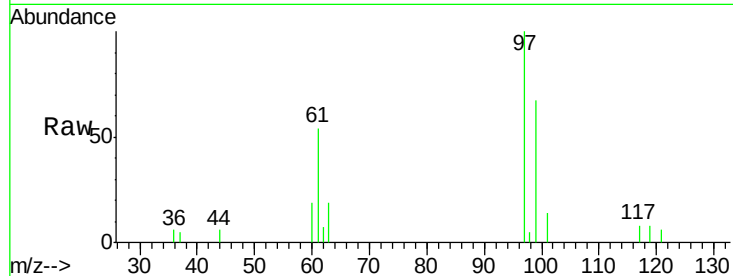
ClientSampleId :

VSTDIC0.1

Tot Ion:	97	Resp:	16045
Ion	Ratio	Lower	Upper
97	100		
99	64.0	51.2	76.8
61	50.5	40.4	60.6

Manual Integrations
APPROVED

sam
7/8/2015 11:05:56 AM



#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

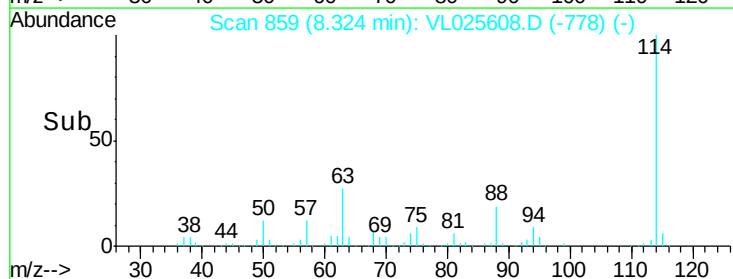
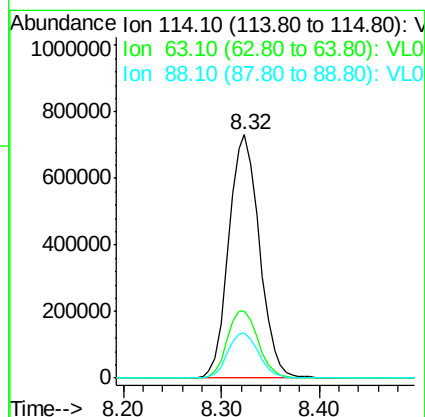
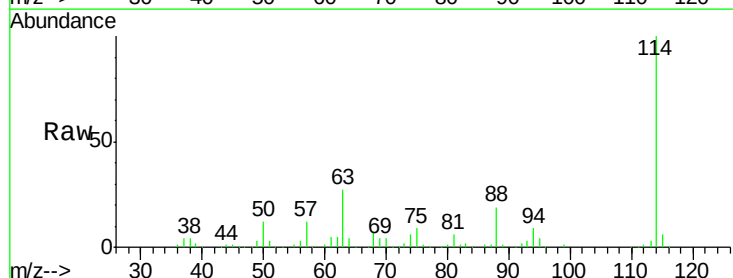
RT: 8.32 min Scan# 859

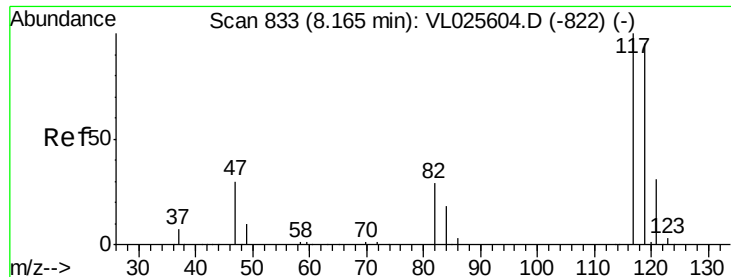
Delta R.T. -0.01 min

Lab File: VL025608.D

Acq: 7 Jul 2015 13:12

Tgt Ion:	114	Resp:	1590337
Ion	Ratio	Lower	Upper
114	100		
63	28.0	22.4	33.6
88	18.8	15.0	22.4





#35

Carbon Tetrachloride

Concen: 0.12 ppbv

RT: 8.16 min Scan# 832

Delta R.T. -0.01 min

Lab File: VL025608.D

Acq: 7 Jul 2015 13:12

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tot Ion:117 Resp: 16805

Ion Ratio Lower Upper

117 100

119 83.0 75.9 113.9

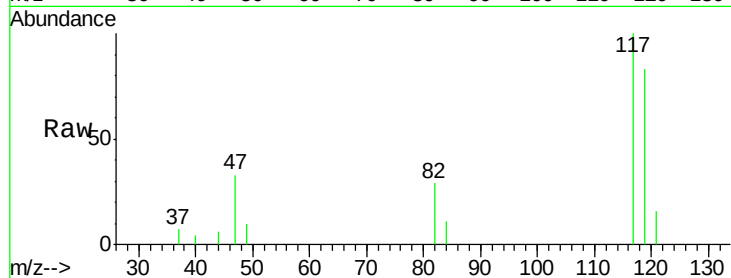
121 16.3 24.4 36.6#

Manual Integrations

APPROVED

sam

7/8/2015 11:05:56 AM

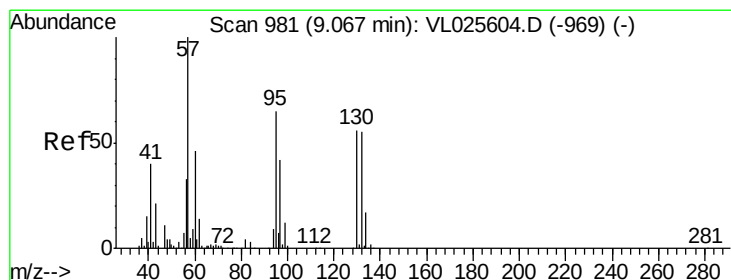
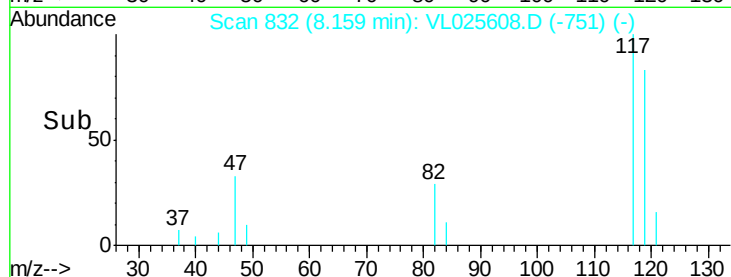
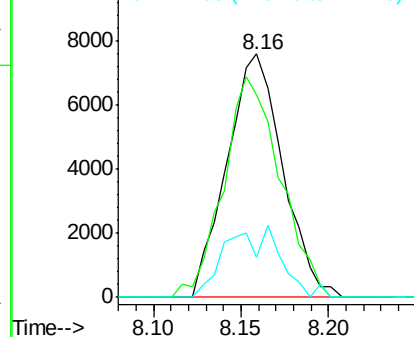


Abundance

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: 0.09 ppbv

RT: 9.07 min Scan# 981

Delta R.T. -0.00 min

Lab File: VL025608.D

Acq: 7 Jul 2015 13:12

Tgt Ion:130 Resp: 6192

Ion Ratio Lower Upper

130 100

95 113.2 94.2 141.4

132 81.3 78.6 118.0

97 60.4 60.6 90.8#

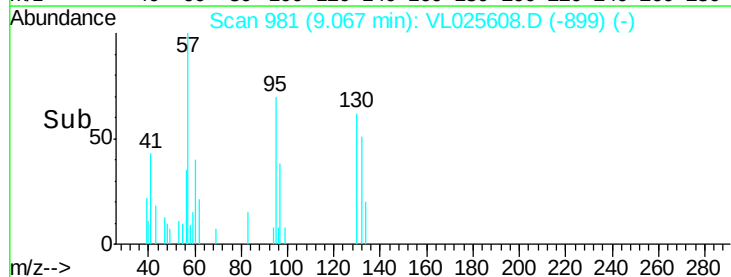
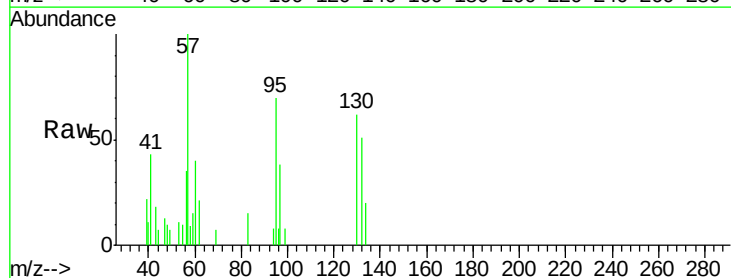
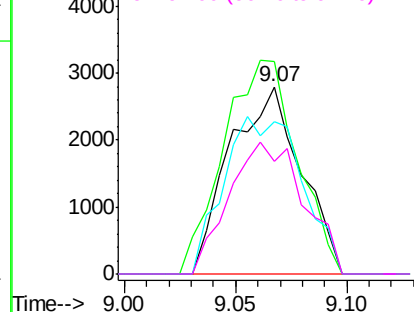
Abundance

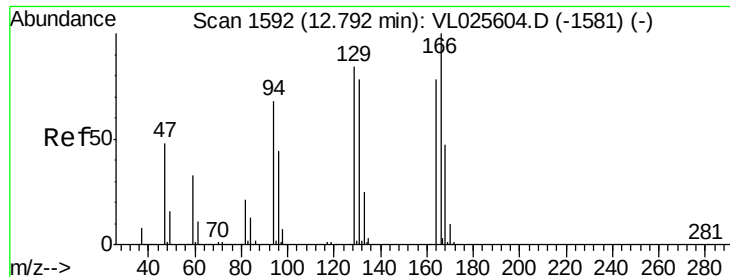
Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): V

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): V





#52

Tetrachloroethene

Concen: 0.09 ppbv m

RT: 12.79 min Scan# 1591

Delta R.T. -0.01 min

Lab File: VL025608.D

Acq: 7 Jul 2015 13:12

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tot Ion:164 Resp: 6718

Ion Ratio Lower Upper

164 100

166 122.3 102.3 153.5

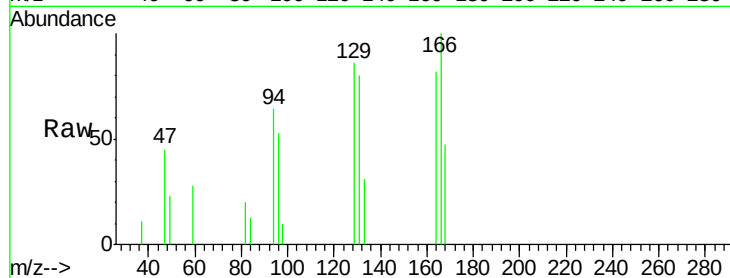
129 104.7 86.2 129.4

131 97.3 80.3 120.5

Manual Integrations
APPROVED

sam

7/8/2015 11:05:56 AM

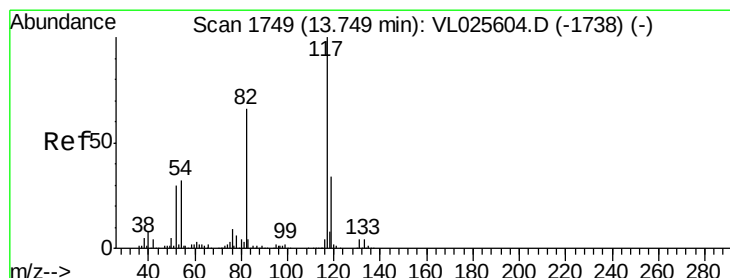
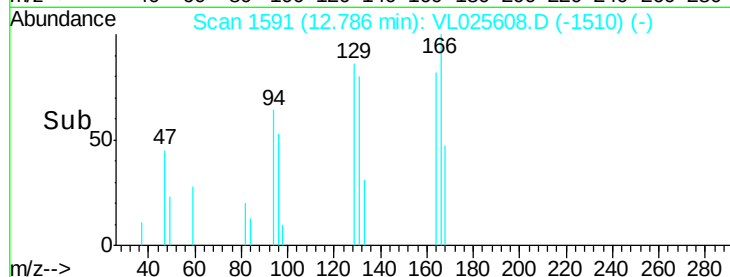
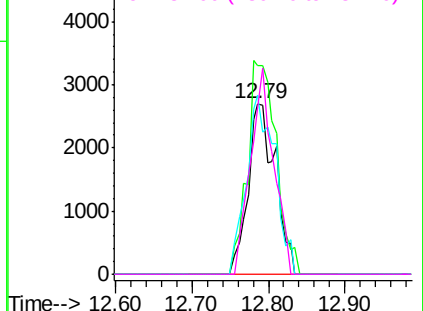


Abundance Ion 163.90 (163.60 to 164.60): V

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: 13.74 min Scan# 1748

Delta R.T. -0.01 min

Lab File: VL025608.D

Acq: 7 Jul 2015 13:12

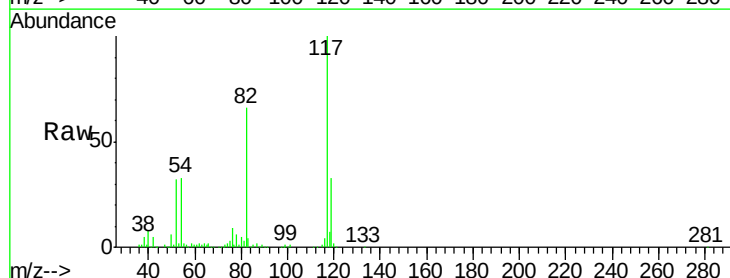
Tgt Ion:117 Resp: 2057813

Ion Ratio Lower Upper

117 100

82 66.3 50.5 75.7

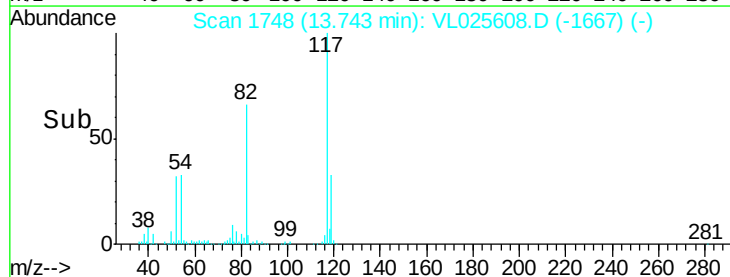
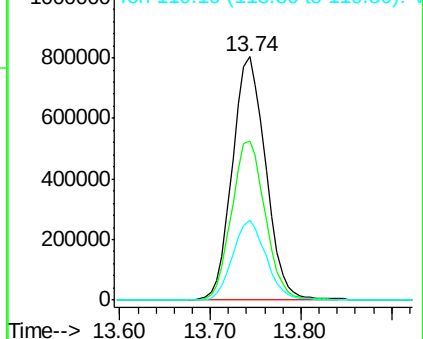
119 33.0 45.1 67.7#

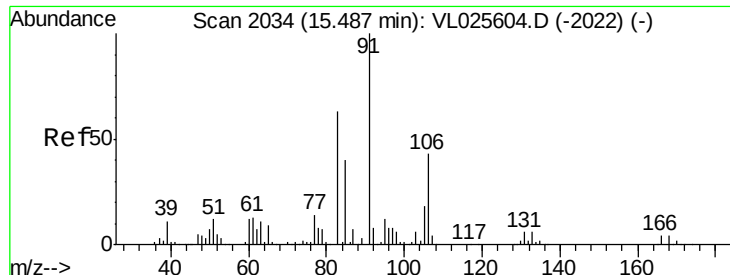


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





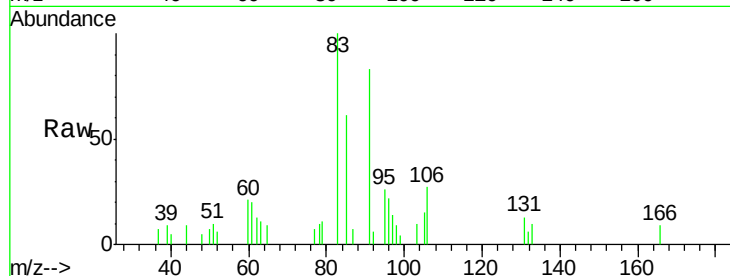
#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.10 ppbv
 RT: 15.47 min Scan# 2032
 Delta R.T. -0.01 min
 Lab File: VL025608.D
 Acq: 7 Jul 2015 13:12

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

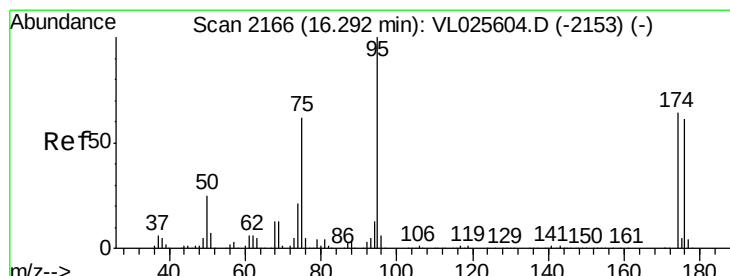
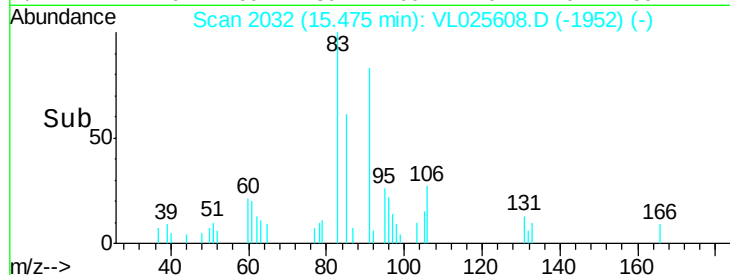
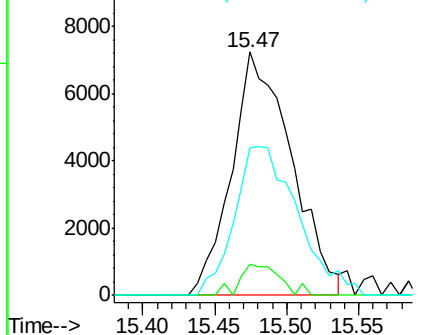
Tot Ion	Ratio	Resp	Lower	Upper
83	100	20900		
131	8.5		4.8	14.4
85	64.6		32.4	97.2

Manual Integrations
 APPROVED

sam
 7/8/2015 11:05:56 AM

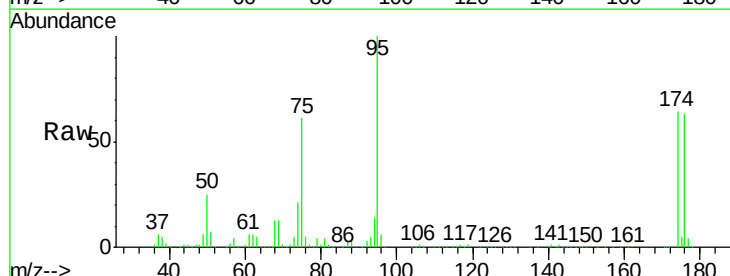


Abundance Ion 83.00 (82.70 to 83.70): VL0
 Ion 131.00 (130.70 to 131.70): V
 Ion 85.00 (84.70 to 85.70): VL0



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.27 ppbv
 RT: 16.29 min Scan# 2165
 Delta R.T. -0.01 min
 Lab File: VL025608.D
 Acq: 7 Jul 2015 13:12

Tgt Ion	Ratio	Resp	Lower	Upper
95	100	1745744		
174	65.5		52.0	78.0
175	4.8		3.9	5.9



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

