

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL071818\
 Data File : VL032263.D
 Acq On : 18 Jul 2018 11:55
 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
 7/20/2018 2:53:07 PM

Quant Time: Jul 18 12:52:55 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL071818AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jul 18 12:52:55 2018
 QLast Update : Wed Jul 18 09:58:24 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.84	49	1724157	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.37	114	3620249	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.33	117	3978432	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.67	95	3354558	10.89	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	108.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.34	62	10705	0.09	ppbv	93
32) 1,1,1-Trichloroethane	6.69	97	24419m	0.09	ppbv	
35) Carbon Tetrachloride	7.22	117	23664	0.10	ppbv #	88
38) Trichloroethene	8.05	130	11429m	0.09	ppbv	
52) Tetrachloroethene	11.46	164	12890m	0.10	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.93	83	41787m	0.11	ppbv	

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

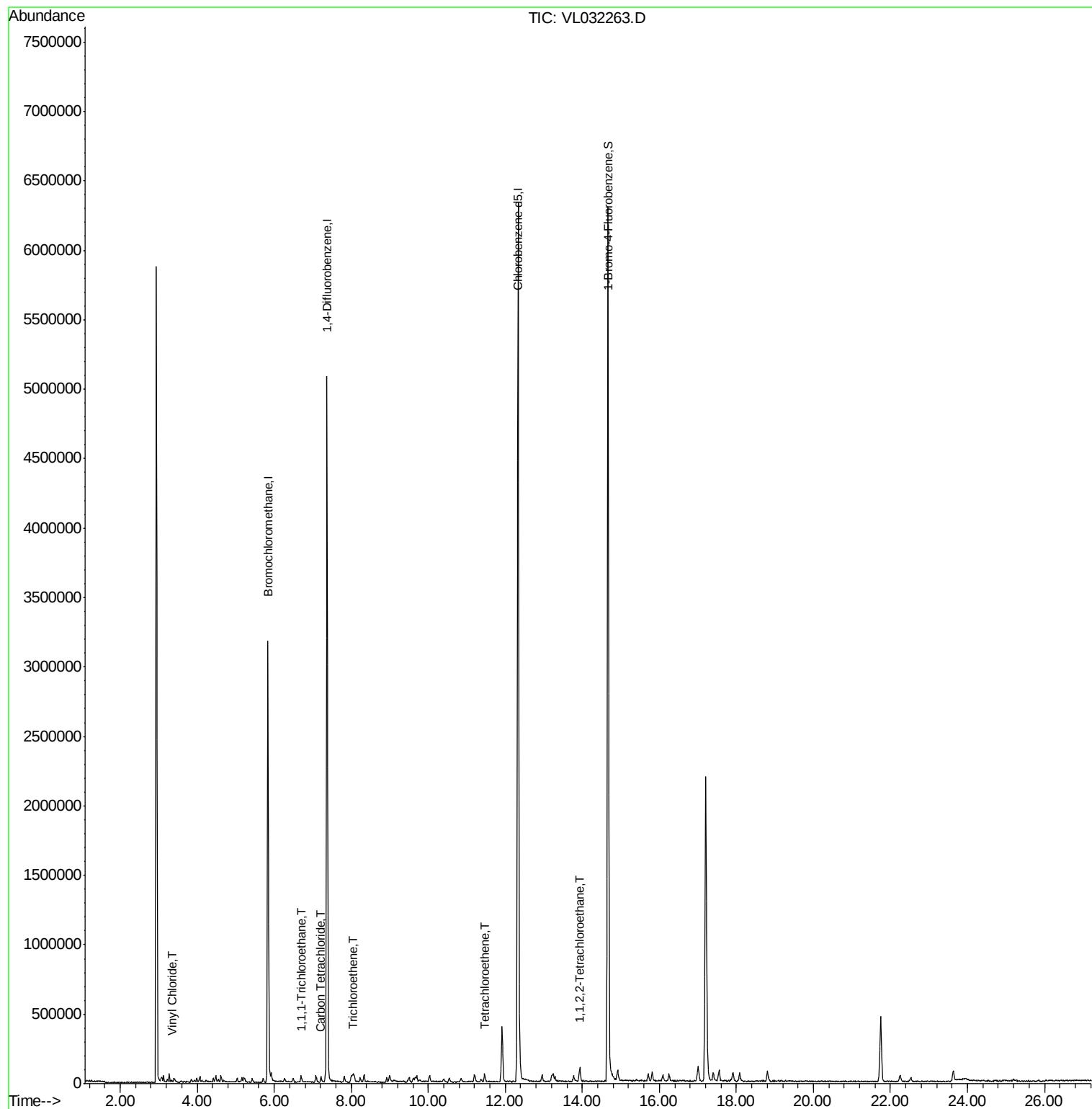
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL071818\
Data File : VL032263.D
Acq On : 18 Jul 2018 11:55
Operator : SY/AP
Sample : VSTDICC0.1
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

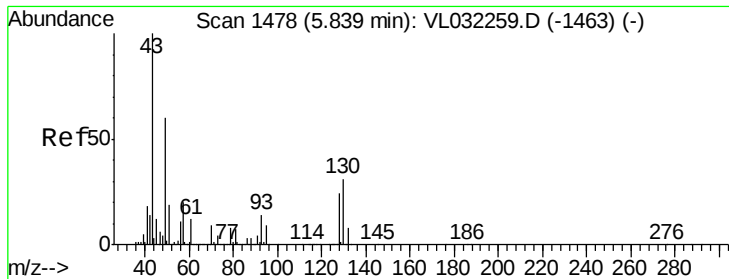
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

MMDadoda
7/20/2018 2:53:07 PM

Quant Time: Jul 18 12:52:55 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL071818AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jul
QLast Update : Wed Jul 18 09:58:24 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.84 min Scan# 1477

Delta R.T. -0.00 min

Lab File: VL032263.D

Acq: 18 Jul 2018 11:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tot Ion: 49 Resp: 1724157

Ion Ratio Lower Upper

49 100

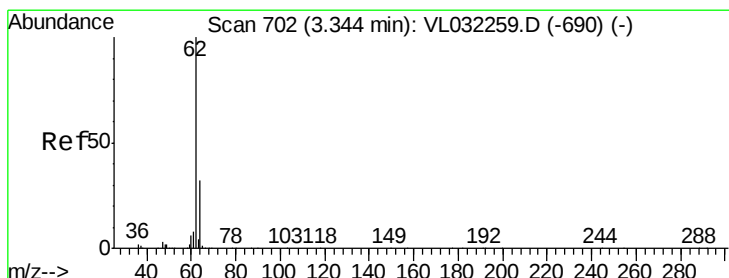
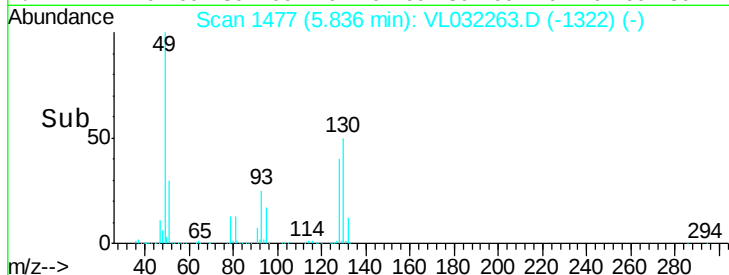
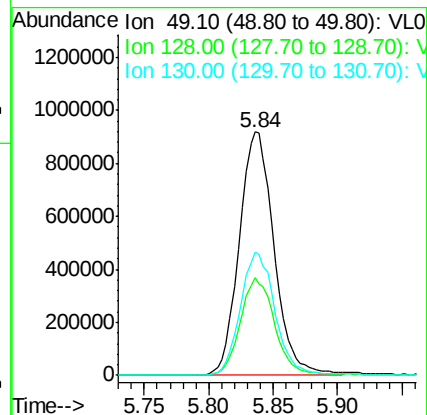
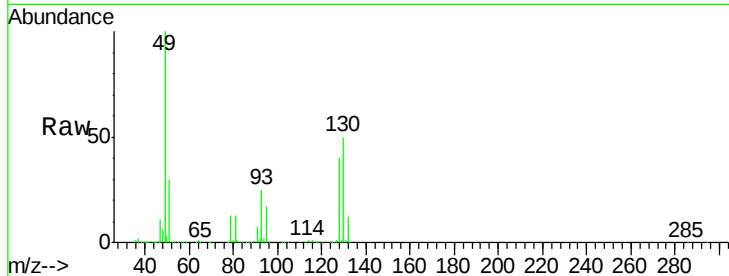
128 40.1 20.1 60.2

130 50.9 25.9 77.6

Manual Integrations
APPROVED

MMDadoda

7/20/2018 2:53:07 PM



#5

Vinyl Chloride

Concen: 0.09 ppbv

RT: 3.34 min Scan# 702

Delta R.T. 0.00 min

Lab File: VL032263.D

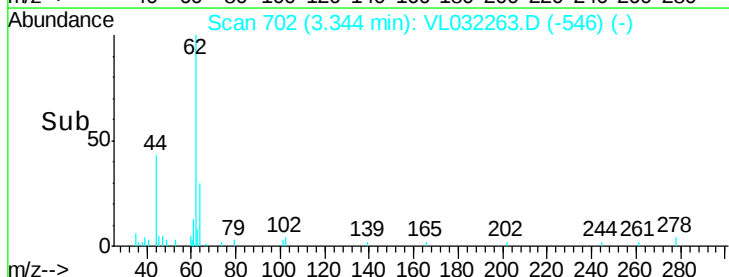
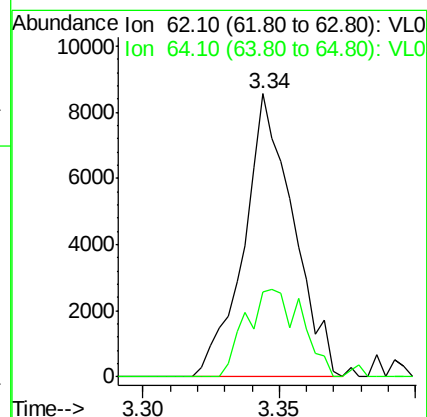
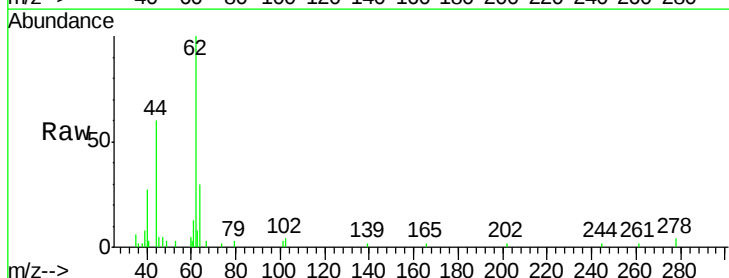
Acq: 18 Jul 2018 11:55

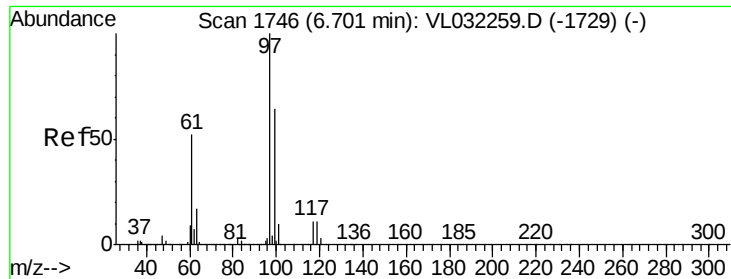
Tgt Ion: 62 Resp: 10705

Ion Ratio Lower Upper

62 100

64 27.8 25.3 37.9





#32

1,1,1-Trichloroethane

Concen: 0.09 ppbv m

RT: 6.69 min Scan# 1744

Delta R.T. -0.01 min

Lab File: VL032263.D

Acq: 18 Jul 2018 11:55

Instrument :

MSVOA_L

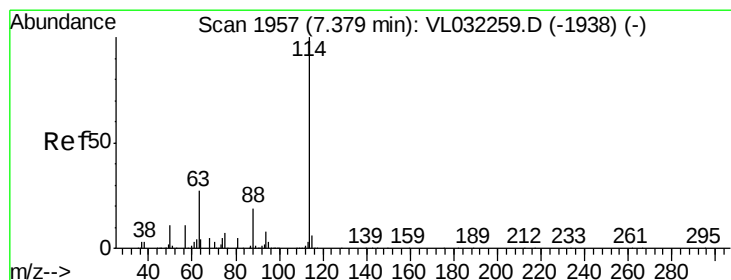
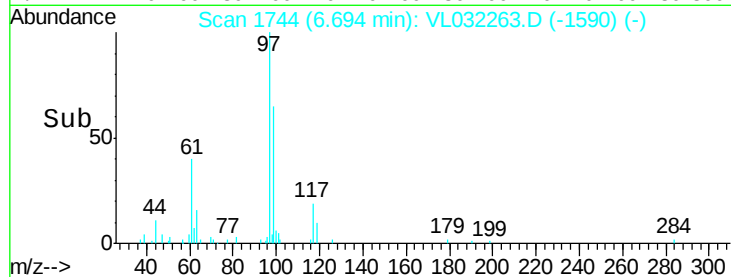
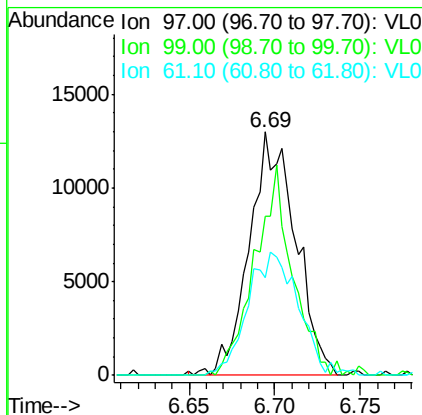
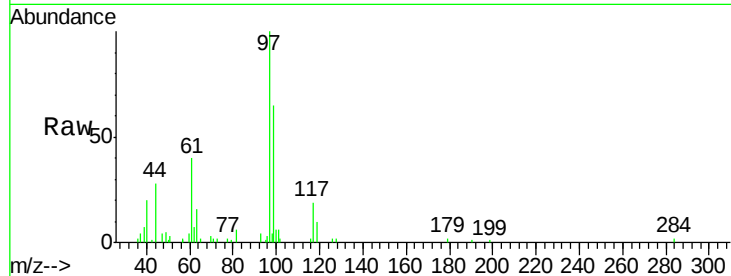
ClientSampleId :

VSTDIC0.1

Tot Ion:	97	Resp:	24419
Ion Ratio	Lower	Upper	
97	100		
99	0.0	51.0	76.6#
61	0.0	41.2	61.8#

Manual Integrations
APPROVED

MMDadoda
7/20/2018 2:53:07 PM



#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

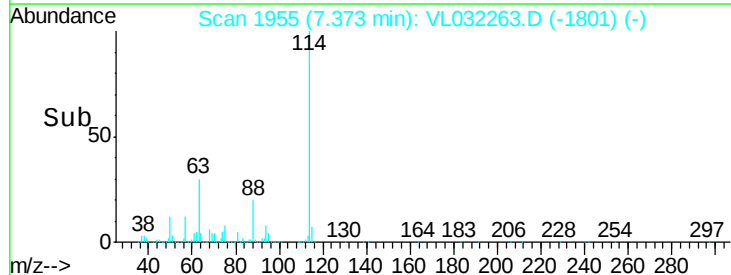
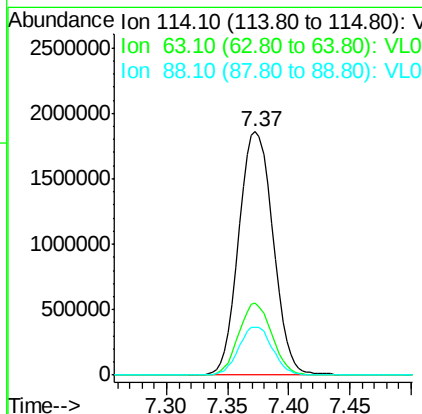
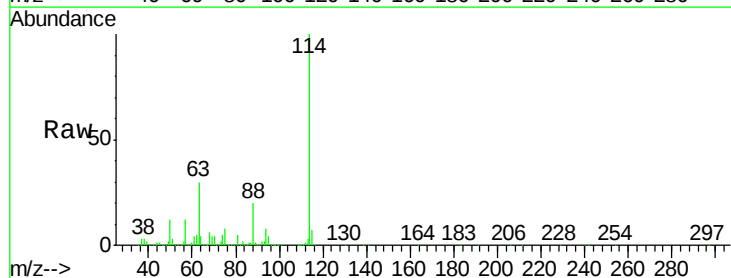
RT: 7.37 min Scan# 1955

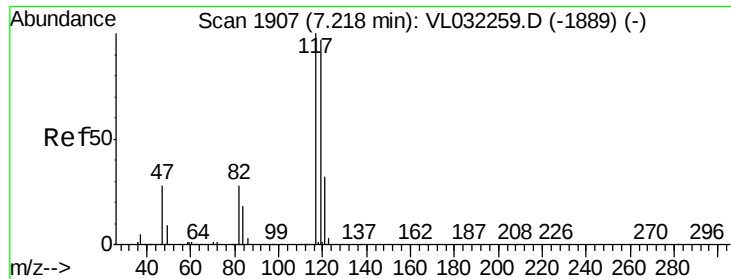
Delta R.T. -0.01 min

Lab File: VL032263.D

Acq: 18 Jul 2018 11:55

Tgt Ion:	114	Resp:	3620249
Ion Ratio	Lower	Upper	
114	100		
63	28.8	22.6	33.8
88	19.4	15.2	22.8





#35

Carbon Tetrachloride

Concen: 0.10 ppbv

RT: 7.22 min Scan# 1906

Delta R.T. -0.00 min

Lab File: VL032263.D

Acq: 18 Jul 2018 11:55

Instrument :

MSVOA_L

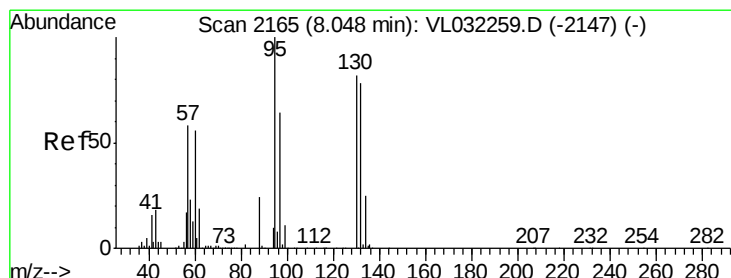
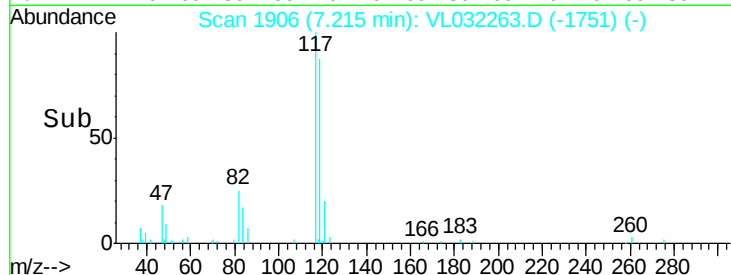
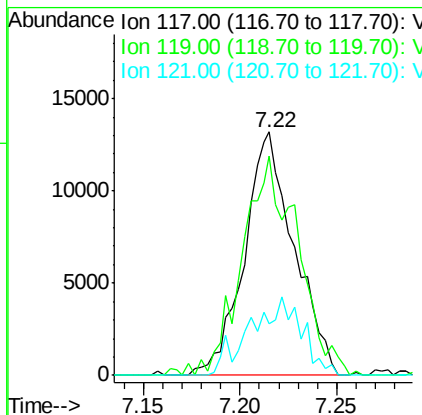
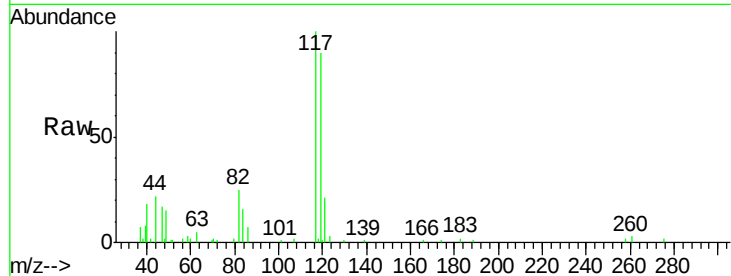
ClientSampleId :

VSTDIC0.1

Tot Ion:	117	Resp:	23664
Ion Ratio	Lower	Upper	
117	100		
119	86.8	77.4	116.0
121	21.0	25.4	38.2#

Manual Integrations
APPROVED

MMDadoda
7/20/2018 2:53:07 PM



#38

Trichloroethene

Concen: 0.09 ppbv m

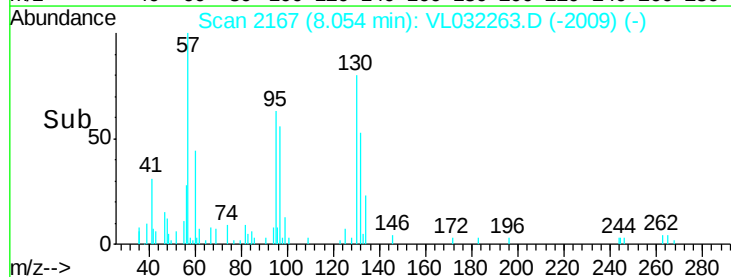
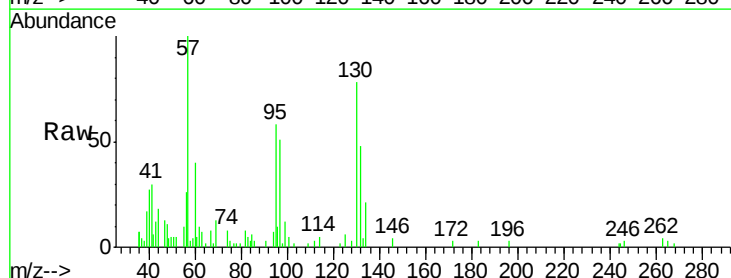
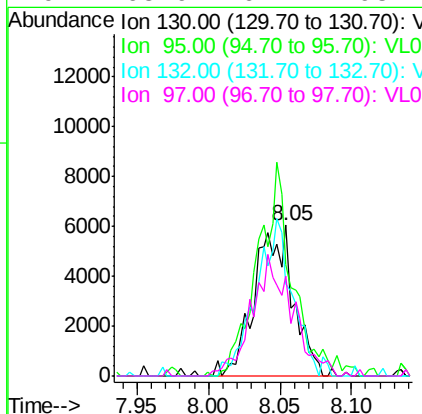
RT: 8.05 min Scan# 2167

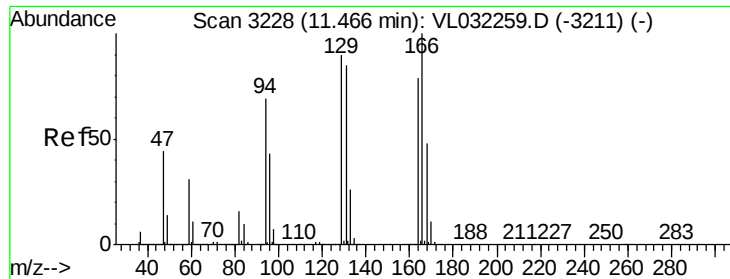
Delta R.T. 0.01 min

Lab File: VL032263.D

Acq: 18 Jul 2018 11:55

Tgt Ion:	130	Resp:	11429
Ion Ratio	Lower	Upper	
130	100		
95	73.9	97.1	145.7#
132	61.6	75.6	113.4#
97	65.9	62.1	93.1





#52

Tetrachloroethene

Concen: 0.10 ppbv m

RT: 11.46 min Scan# 3227

Delta R.T. -0.00 min

Lab File: VL032263.D

Acq: 18 Jul 2018 11:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tot Ion:164 Resp: 12890

Ion Ratio Lower Upper

164 100

166 101.9 101.7 152.5

129 112.2 91.5 137.3

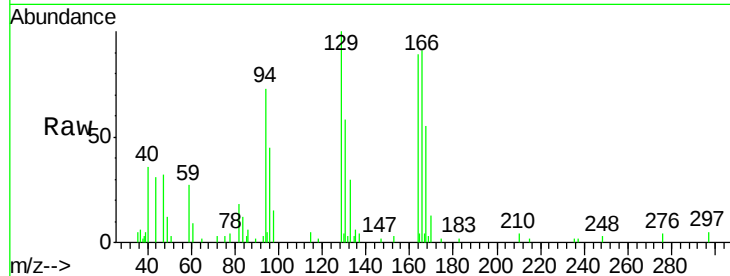
131 65.5 86.6 129.8#

Manual Integrations

APPROVED

MMDadoda

7/20/2018 2:53:07 PM



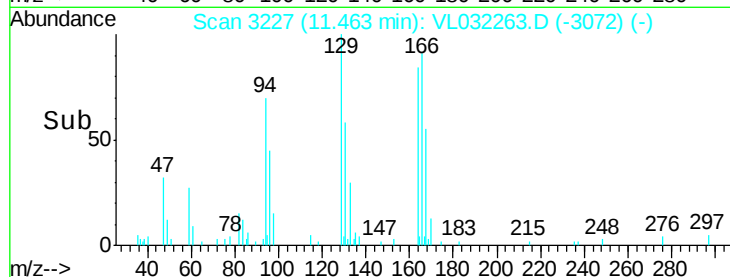
Abundance Ion 163.90 (163.60 to 164.60): V

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

Time-->



Abundance

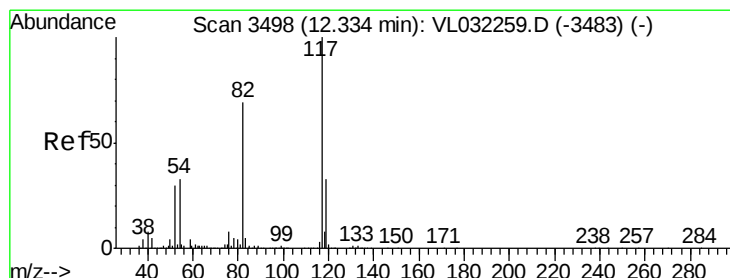
Ion 163.90 (163.60 to 164.60): V

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

Time-->



#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.33 min Scan# 3496

Delta R.T. -0.01 min

Lab File: VL032263.D

Acq: 18 Jul 2018 11:55

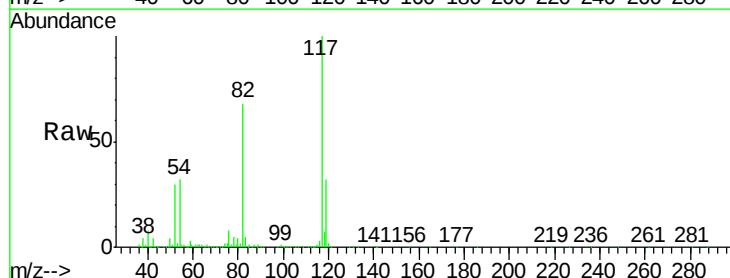
Tgt Ion:117 Resp: 3978432

Ion Ratio Lower Upper

117 100

82 69.9 53.9 80.9

119 32.7 25.5 38.3

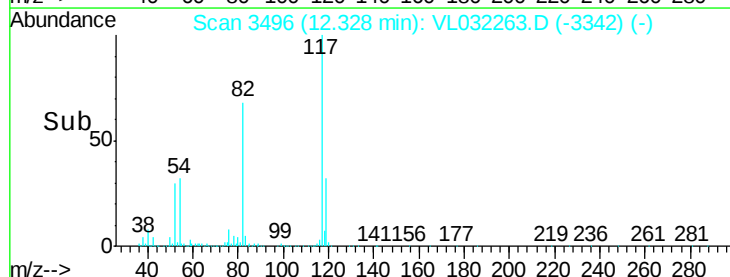


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V

Time-->



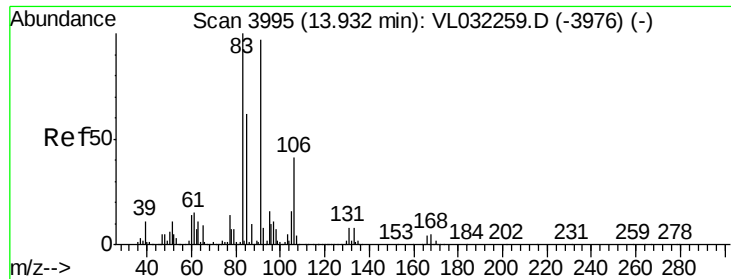
Abundance

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

Time-->



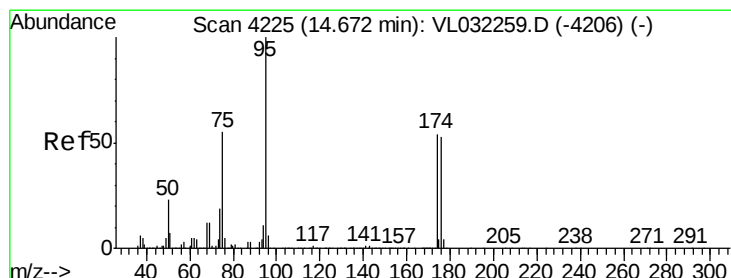
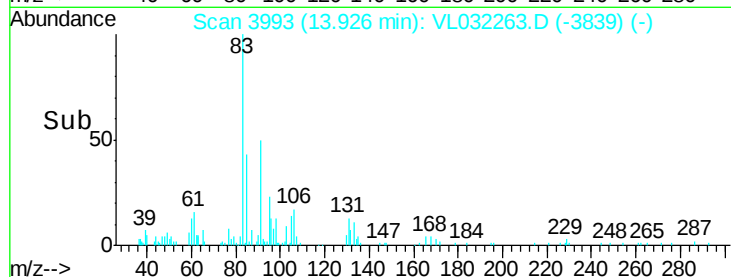
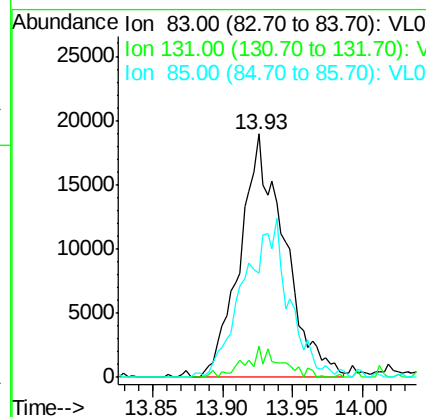
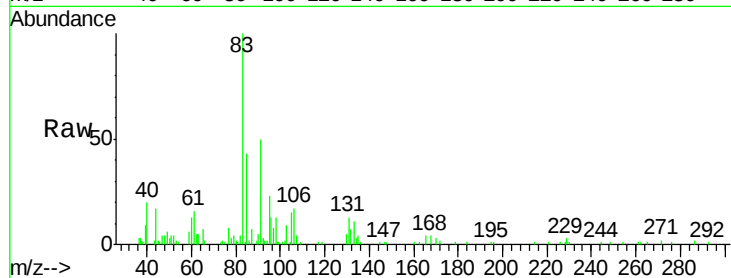
#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.11 ppbv m
 RT: 13.93 min Scan# 3993
 Delta R.T. -0.01 min
 Lab File: VL032263.D
 Acq: 18 Jul 2018 11:55

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

Tot Ion	Ratio	Lower	Upper
83	100		
131	9.9	4.2	12.6
85	0.0	32.2	96.6#

Manual Integrations
 APPROVED

MMDadoda
 7/20/2018 2:53:07 PM



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.89 ppbv
 RT: 14.67 min Scan# 4223
 Delta R.T. -0.01 min
 Lab File: VL032263.D
 Acq: 18 Jul 2018 11:55

Tgt Ion	Ratio	Lower	Upper
95	100		
174	55.8	44.3	66.5
175	3.9	3.3	4.9

