

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL123019\
 Data File : VL034513.D
 Acq On : 30 Dec 2019 12:58
 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

apatel
 1/2/2020 10:48:49 AM

Quant Time: Dec 30 14:37:23 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL123019AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 30 2019
 QLast Update : Mon Dec 30 14:19:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1059157	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2108299	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.13	117	2047190	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.47	95	1748747	10.15	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.23	62	7357m	0.101	ppbv	
32) 1,1,1-Trichloroethane	6.52	97	17681m	0.100	ppbv	
35) Carbon Tetrachloride	7.03	117	19098m	0.105	ppbv	
38) Trichloroethene	7.86	130	6738m	0.078	ppbv	
52) Tetrachloroethene	11.26	164	6950m	0.076	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.73	83	19282m	0.094	ppbv	

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

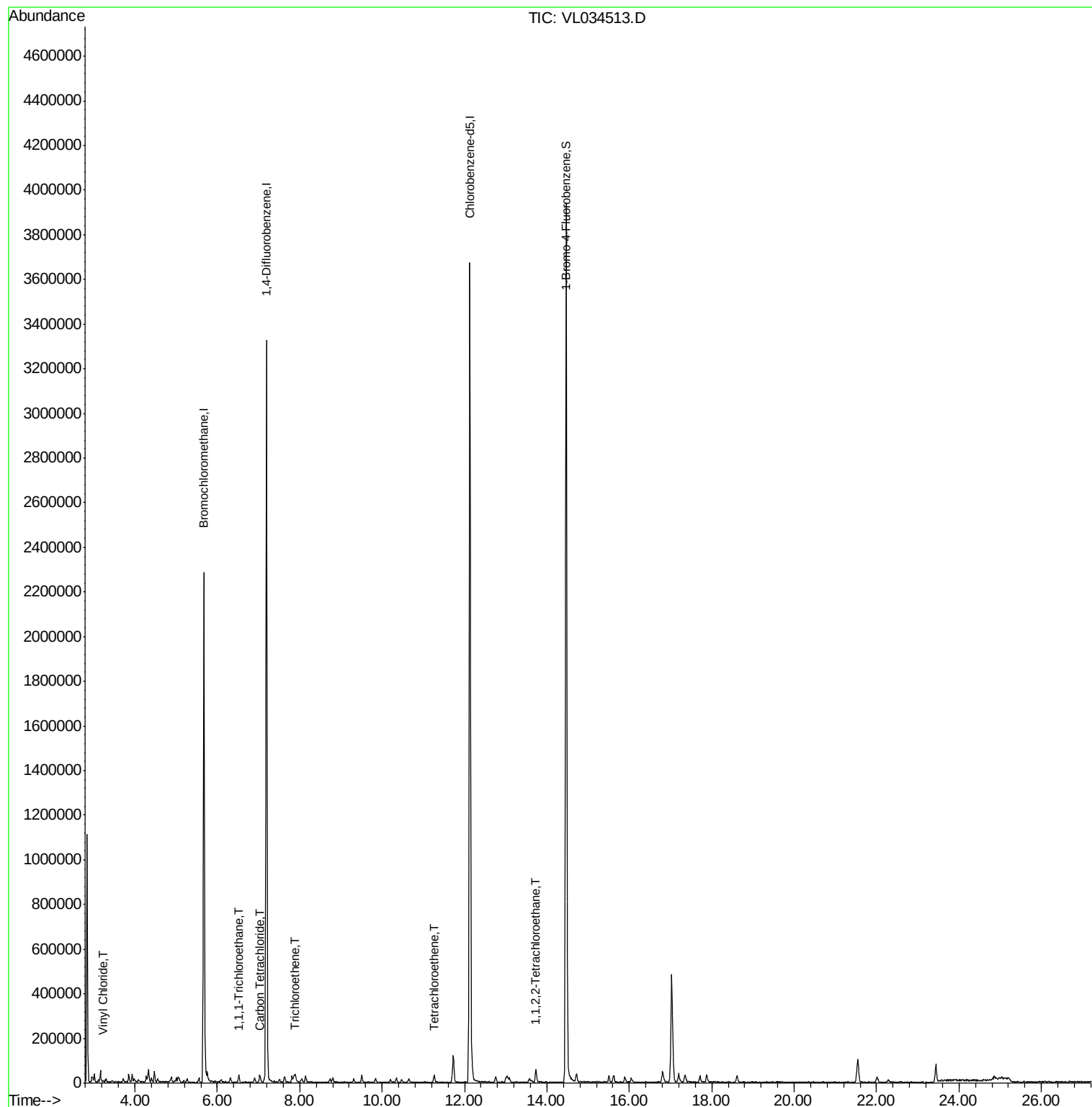
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL123019\
Data File : VL034513.D
Acq On : 30 Dec 2019 12:58
Operator : SY/AP
Sample : VSTDICC0.1
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

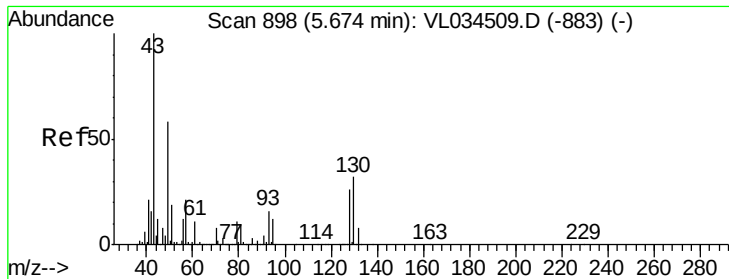
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

apatel
1/2/2020 10:48:49 AM

Quant Time: Dec 30 14:37:23 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL123019AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec
QLast Update : Mon Dec 30 14:19:57 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 896

Delta R.T. -0.01 min

Lab File: VL034513.D

Acq: 30 Dec 2019 12:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tot Ion: 49 Resp: 1059157

Ion Ratio Lower Upper

49 100

128 44.7 22.4 67.2

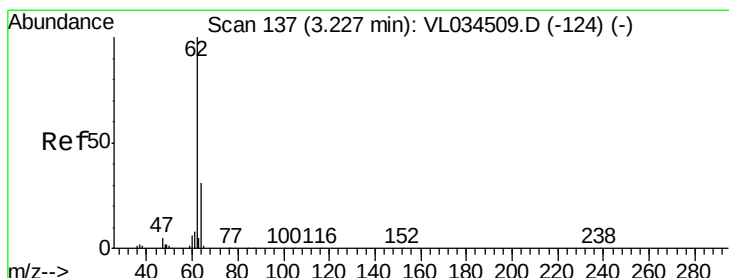
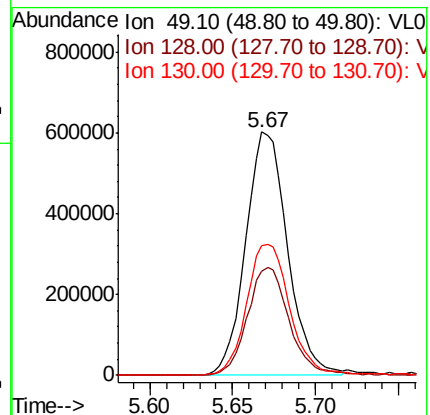
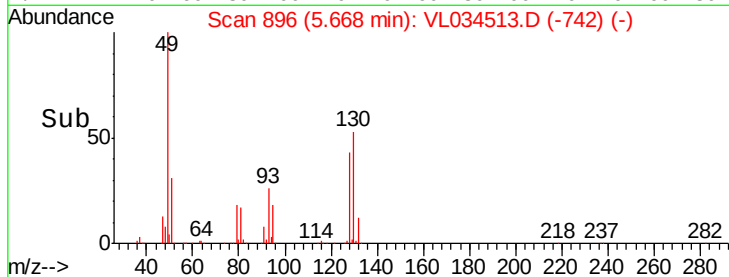
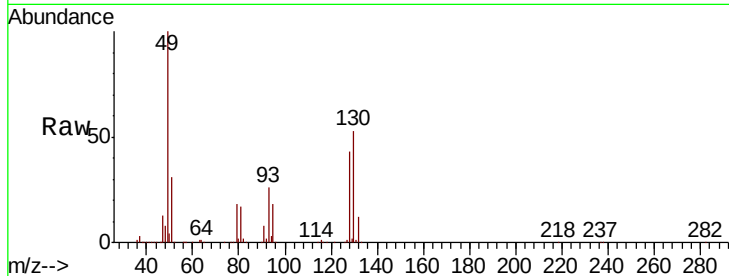
130 56.7 28.3 85.0

Manual Integrations

APPROVED

apatel

1/2/2020 10:48:49 AM



#5

Vinyl Chloride

Concen: 0.101 ppbv m

RT: 3.23 min Scan# 137

Delta R.T. 0.00 min

Lab File: VL034513.D

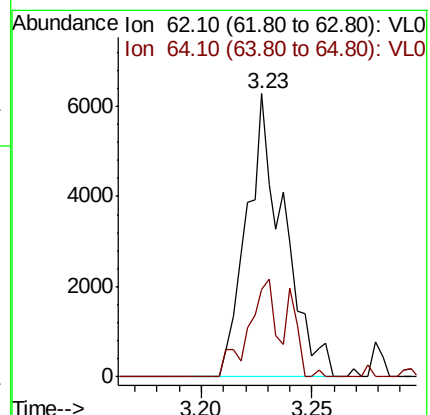
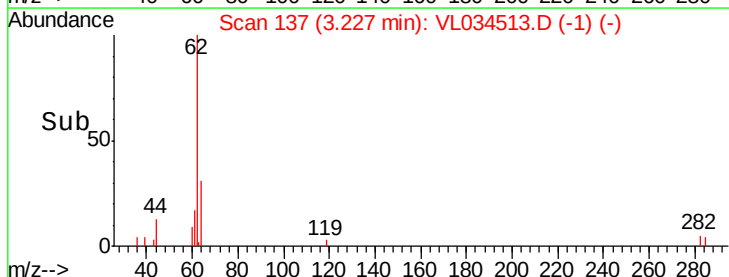
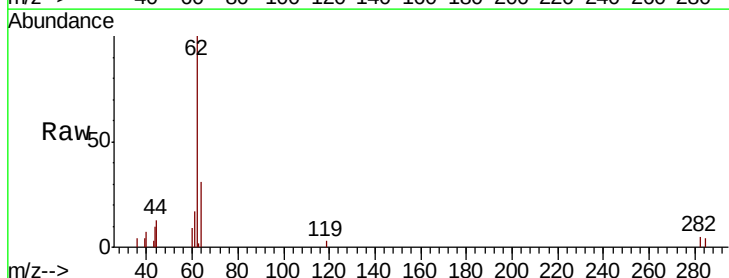
Acq: 30 Dec 2019 12:58

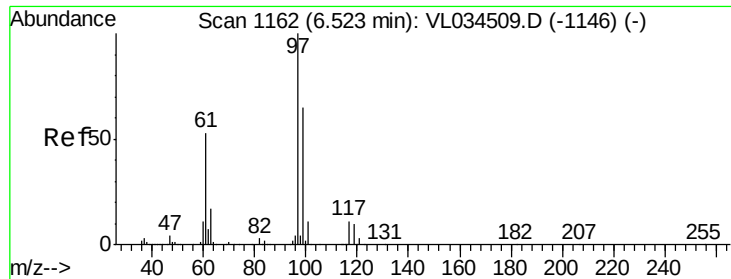
Tgt Ion: 62 Resp: 7357

Ion Ratio Lower Upper

62 100

64 31.1 24.9 37.3





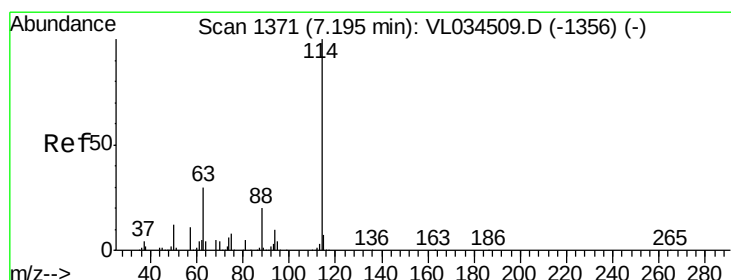
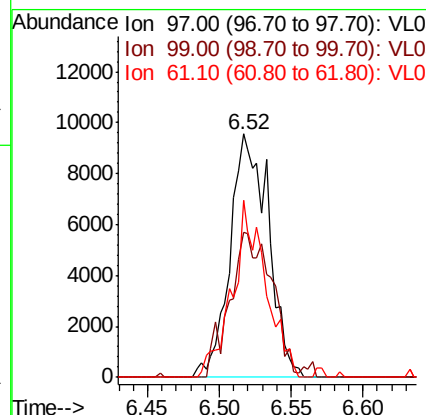
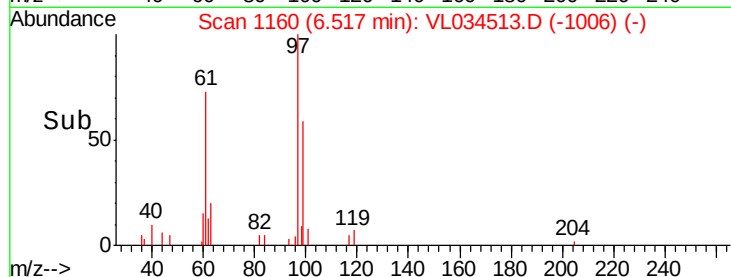
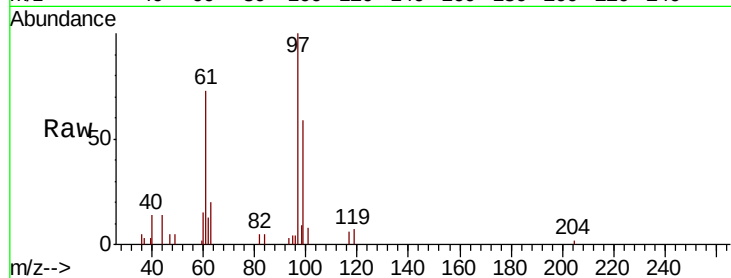
#32
 1,1,1-Trichloroethane
 Concen: 0.100 ppbv m
 RT: 6.52 min Scan# 1160
 Delta R.T. -0.01 min
 Lab File: VL034513.D
 Acq: 30 Dec 2019 12:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

Tot Ion	Ratio	Lower	Upper
97	100		
99	66.5	51.7	77.5
61	63.6	42.9	64.3

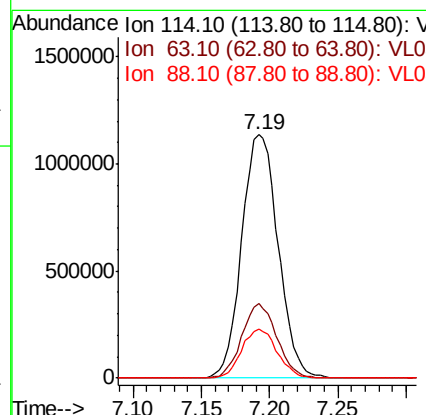
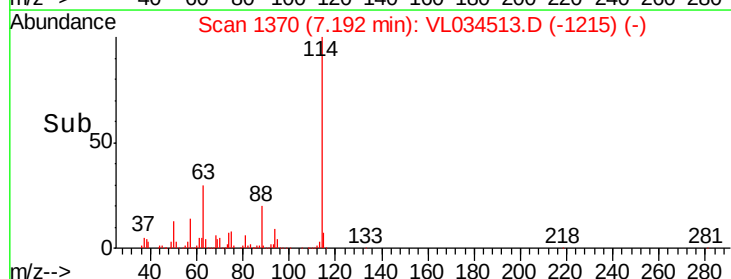
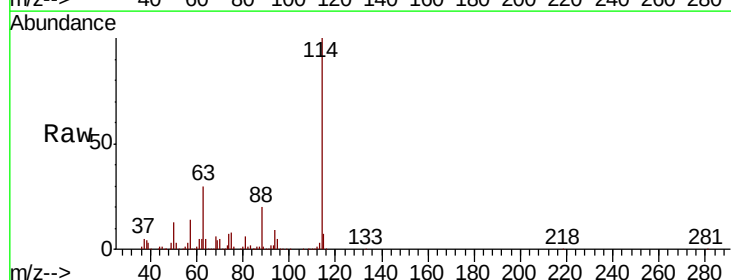
Manual Integrations
 APPROVED

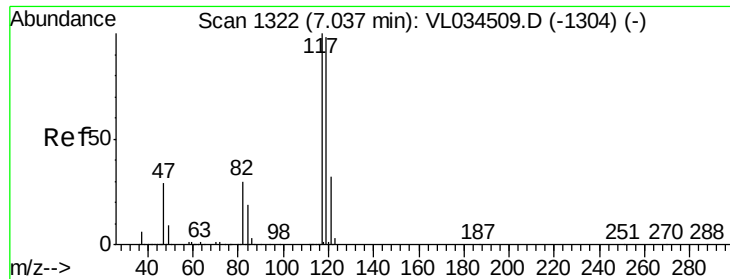
apatel
 1/2/2020 10:48:49 AM



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1370
 Delta R.T. -0.00 min
 Lab File: VL034513.D
 Acq: 30 Dec 2019 12:58

Tgt Ion	Ratio	Lower	Upper
114	100		
63	29.5	24.1	36.1
88	19.6	15.7	23.5





#35

Carbon Tetrachloride

Concen: 0.105 ppbv m

RT: 7.03 min Scan# 1319

Delta R.T. -0.01 min

Lab File: VL034513.D

Acq: 30 Dec 2019 12:58

Instrument :

MSVOA_L

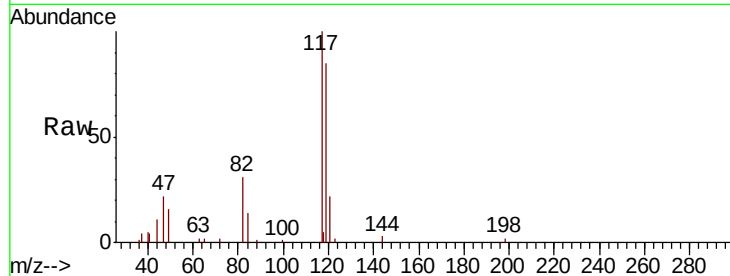
ClientSampleId :

VSTDIC0.1

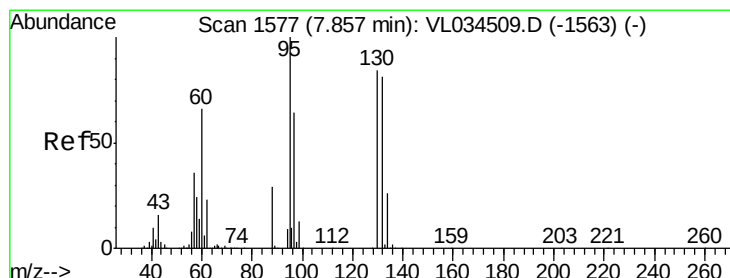
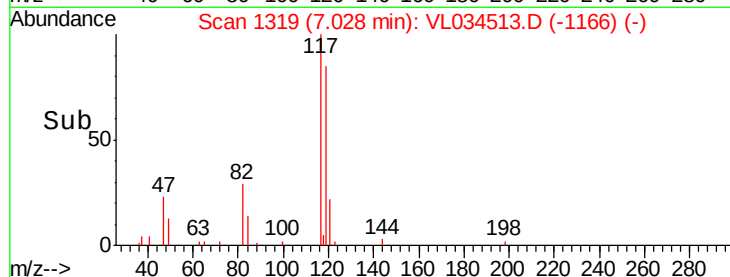
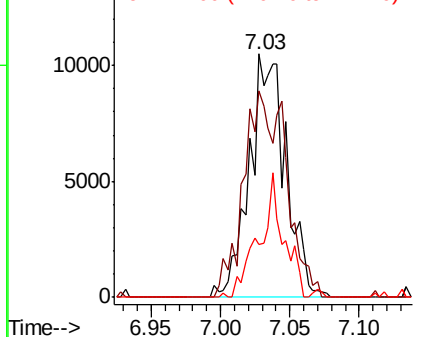
Tot Ion:	117	Resp:	19098
Ion Ratio	Lower	Upper	
117	100		
119	85.0	78.7	118.1
121	21.6	25.9	38.9#

Manual Integrations
APPROVED

apatel
1/2/2020 10:48:49 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: 0.078 ppbv m

RT: 7.86 min Scan# 1579

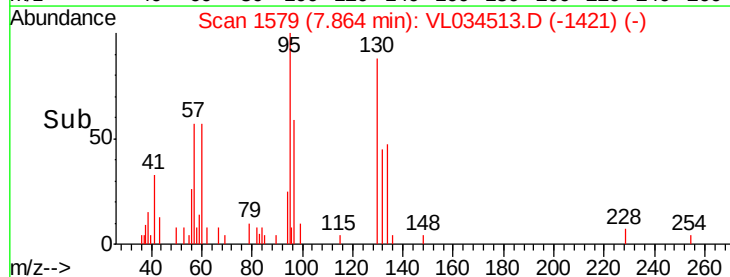
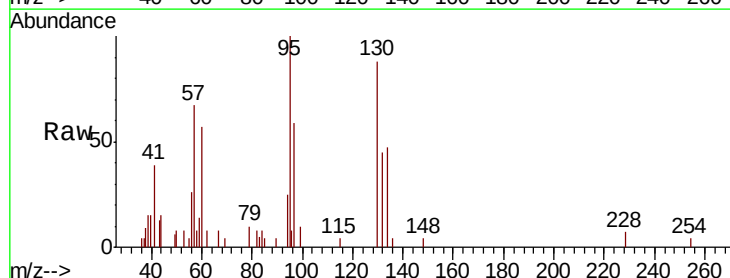
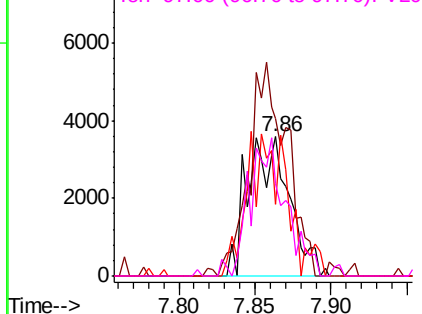
Delta R.T. 0.01 min

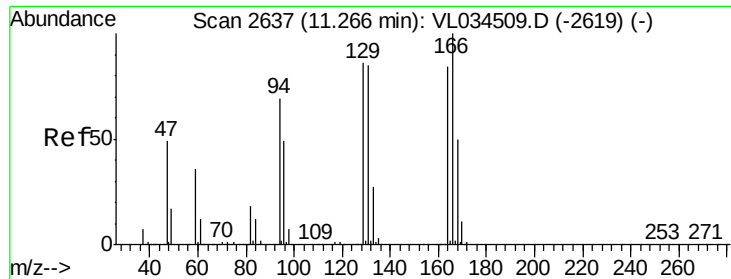
Lab File: VL034513.D

Acq: 30 Dec 2019 12:58

Tgt Ion:	130	Resp:	6738
Ion Ratio	Lower	Upper	
130	100		
95	113.5	94.2	141.2
132	51.1	76.1	114.1#
97	66.5	60.2	90.2

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: 0.076 ppbv m

RT: 11.26 min Scan# 2634

Delta R.T. -0.01 min

Lab File: VL034513.D

Acq: 30 Dec 2019 12:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tot Ion:164 Resp: 6950

Ion Ratio Lower Upper

164 100

166 69.2 95.7 143.5#

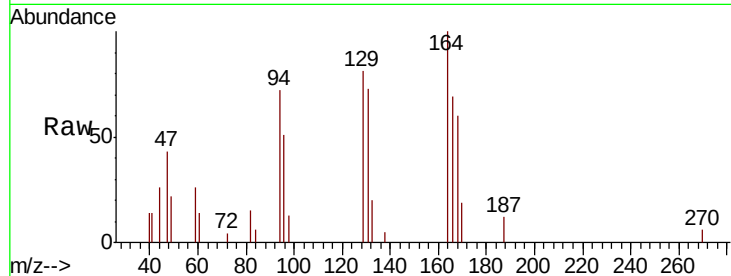
129 81.5 82.2 123.2#

131 73.0 81.3 121.9#

Manual Integrations
APPROVED

apatel

1/2/2020 10:48:49 AM

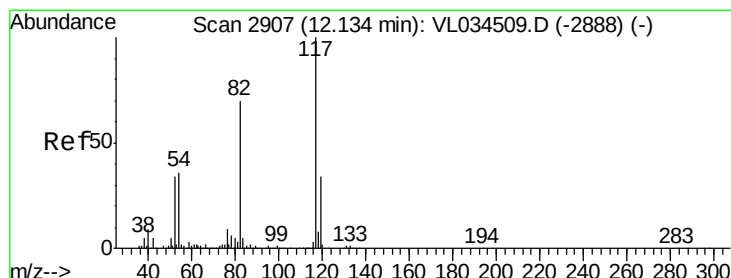
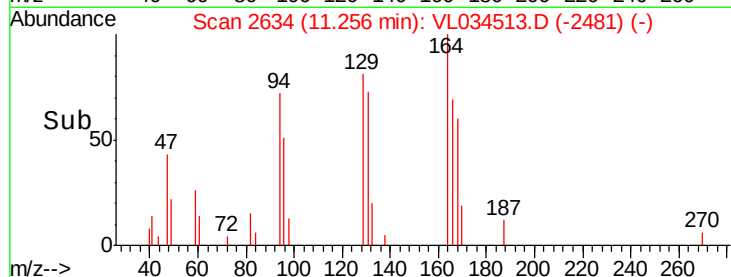
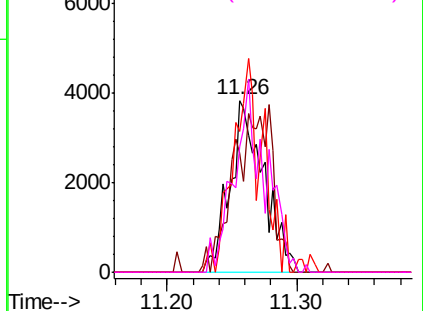


Abundance Ion 163.90 (163.60 to 164.60): V

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: 10.000 ppbv

RT: 12.13 min Scan# 2905

Delta R.T. -0.01 min

Lab File: VL034513.D

Acq: 30 Dec 2019 12:58

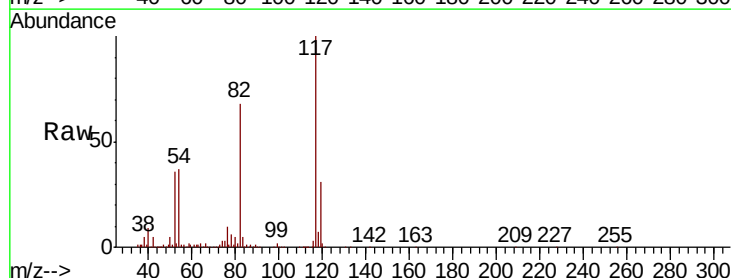
Tgt Ion:117 Resp: 2047190

Ion Ratio Lower Upper

117 100

82 72.1 56.2 84.4

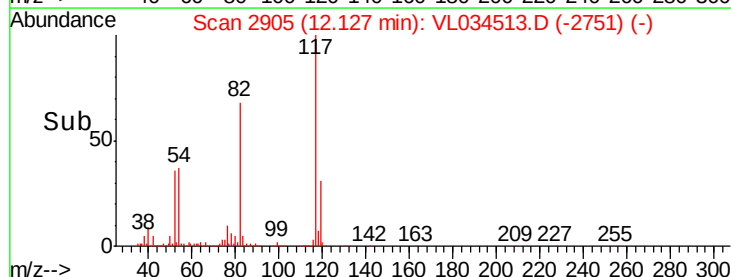
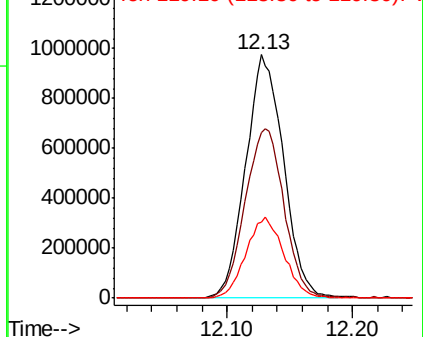
119 33.5 27.1 40.7

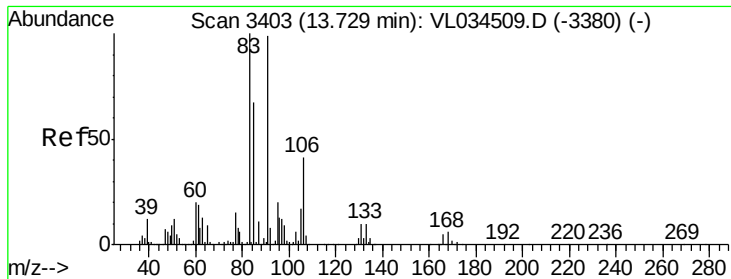


Abundance Ion 117.10 (116.80 to 117.80): V

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: 0.094 ppbv m

RT: 13.73 min Scan# 3403

Delta R.T. 0.00 min

Lab File: VL034513.D

Acq: 30 Dec 2019 12:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tot Ion: 83 Resp: 19282

Ion Ratio Lower Upper

83 100

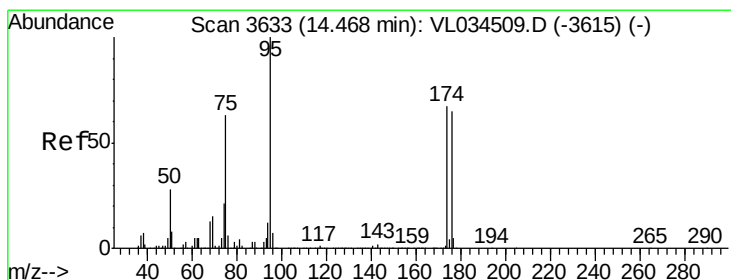
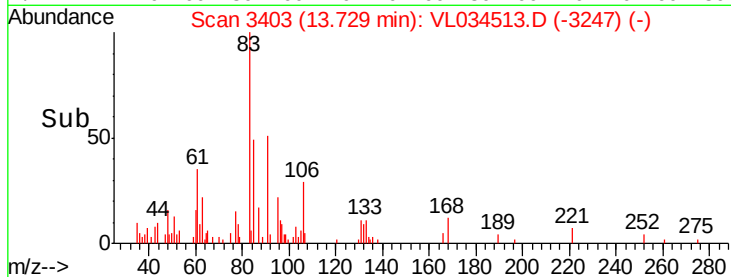
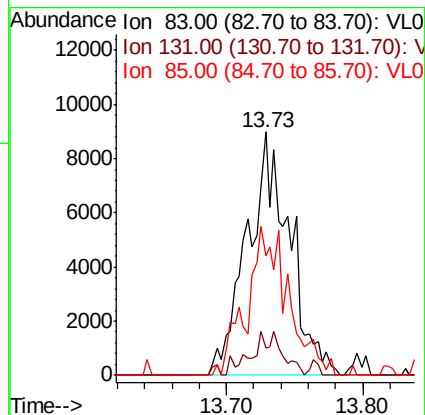
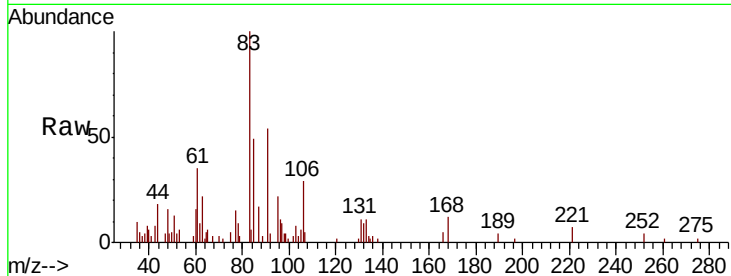
131 0.0 4.8 14.4#

85 0.0 32.5 97.4#

Manual Integrations
APPROVED

apatel

1/2/2020 10:48:49 AM



#68

1-Bromo-4-Fluorobenzene

Concen: 10.154 ppbv

RT: 14.47 min Scan# 3633

Delta R.T. 0.00 min

Lab File: VL034513.D

Acq: 30 Dec 2019 12:58

Tgt Ion: 95 Resp: 1748747

Ion Ratio Lower Upper

95 100

174 64.6 52.4 78.6

175 4.5 3.9 5.9

