

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL123019\
 Data File : VL034514.D
 Acq On : 30 Dec 2019 13:35
 Operator : SY/AP
 Sample : VSTDICC0.03
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03

Manual Integrations
 APPROVED

apatel
 1/2/2020 10:48:53 AM

Quant Time: Dec 30 14:43:47 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	1044838	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	2060237	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.13	117	2026707	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.47	95	1698465	9.96	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.23	62	2955	0.041	ppbv	# 79
32) 1,1,1-Trichloroethane	6.52	97	6245m	0.036	ppbv	
35) Carbon Tetrachloride	7.03	117	6707m	0.038	ppbv	
38) Trichloroethene	7.87	130	2164m	0.026	ppbv	
52) Tetrachloroethene	11.27	164	2487m	0.028	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.73	83	7523m	0.037	ppbv	

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

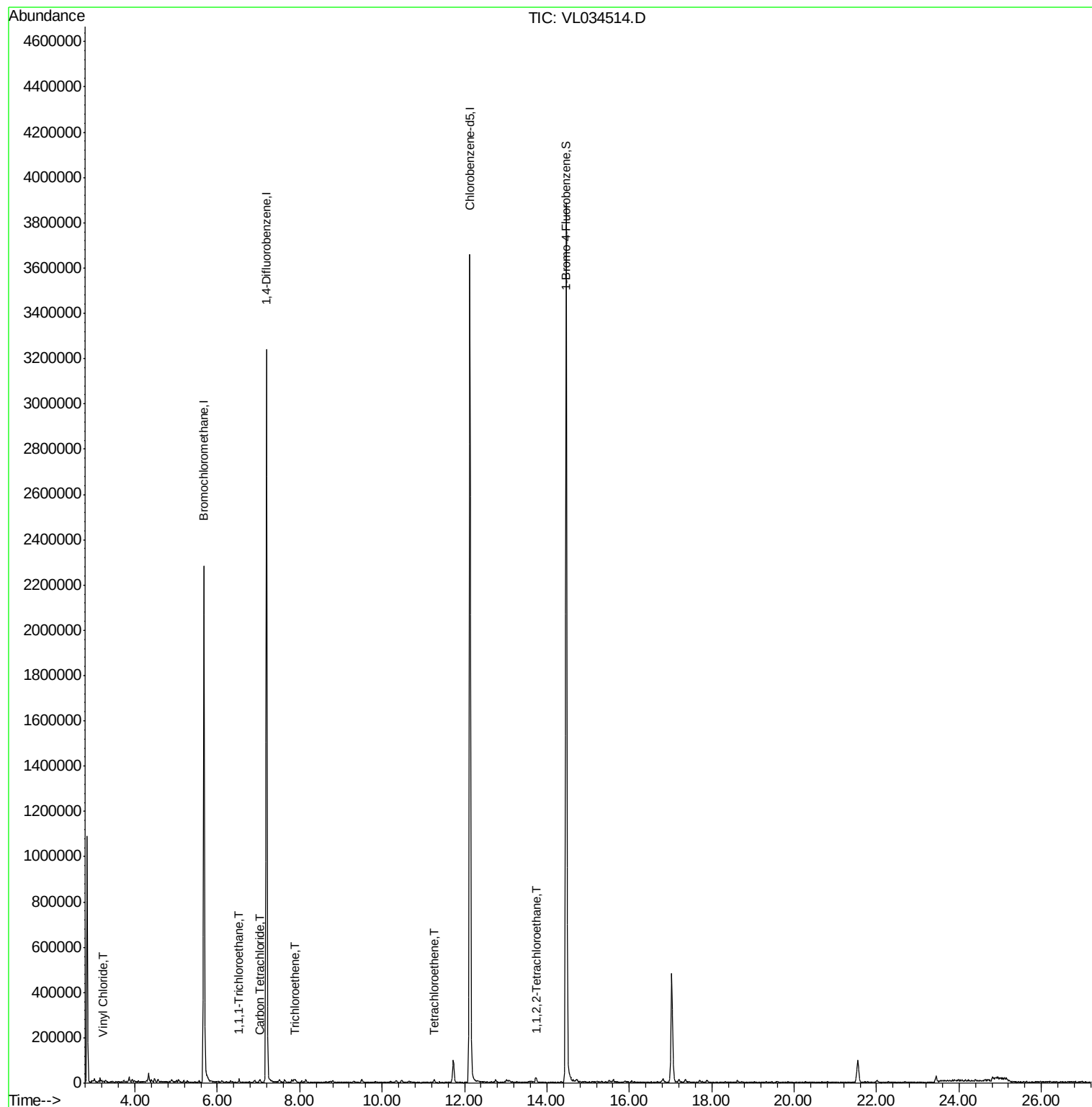
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL123019\
Data File : VL034514.D
Acq On : 30 Dec 2019 13:35
Operator : SY/AP
Sample : VSTDIC0.03
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

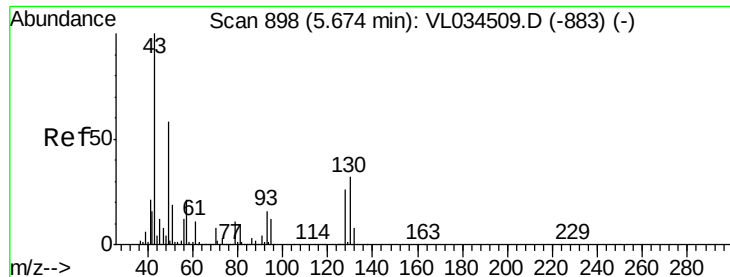
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

Manual Integrations
APPROVED

apatel
1/2/2020 10:48:53 AM

Quant Time: Dec 30 14:43:47 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# 897

Delta R.T. -0.00 min

Lab File: VL034514.D

Acq: 30 Dec 2019 13:35

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

Tot Ion: 49 Resp: 1044838

Ion Ratio Lower Upper

49 100

128 44.3 22.4 67.2

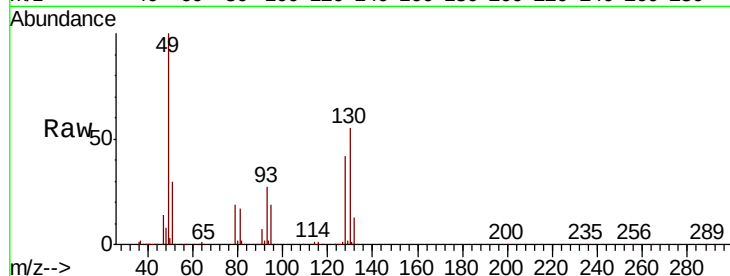
130 56.0 28.3 85.0

Manual Integrations

APPROVED

apatel

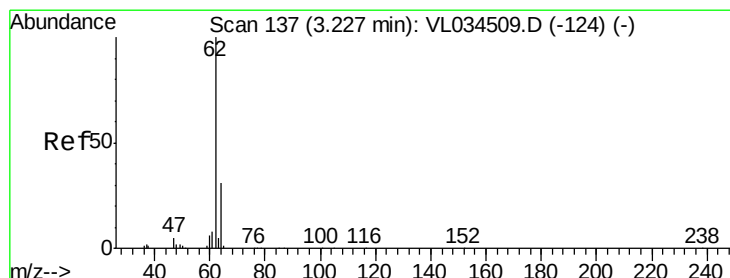
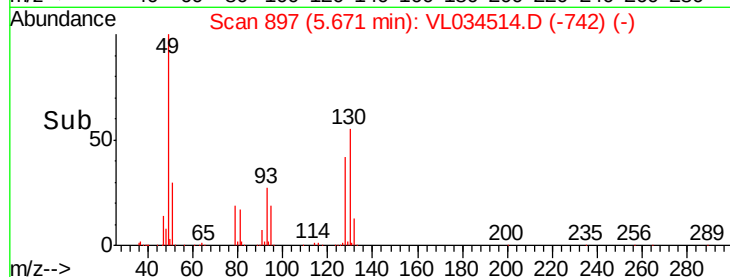
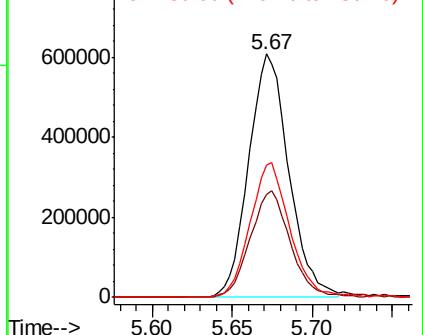
1/2/2020 10:48:53 AM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#5

Vinyl Chloride

Concen: 0.041 ppbv

RT: 3.23 min Scan# 139

Delta R.T. 0.01 min

Lab File: VL034514.D

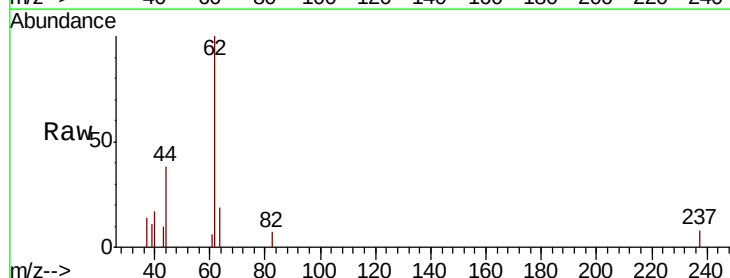
Acq: 30 Dec 2019 13:35

Tgt Ion: 62 Resp: 2955

Ion Ratio Lower Upper

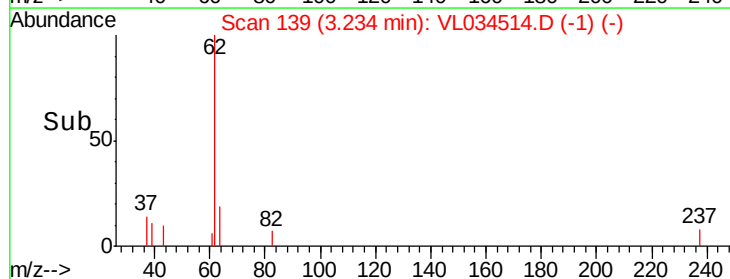
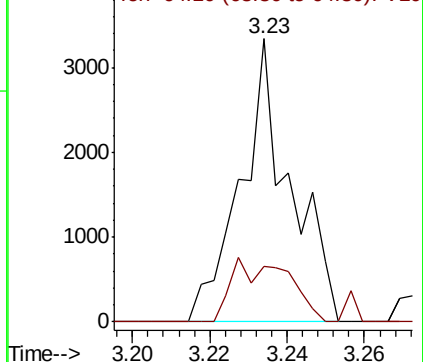
62 100

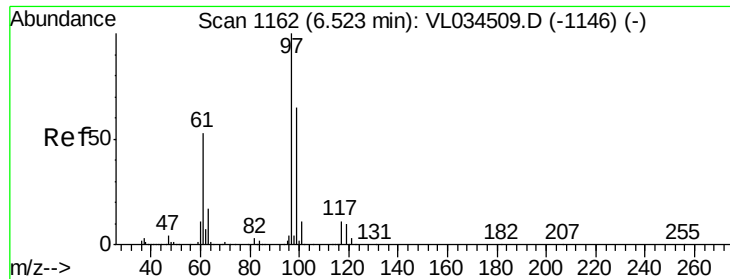
64 19.4 24.9 37.3#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0





#32

1,1,1-Trichloroethane

Concen: 0.036 ppbv m

RT: 6.52 min Scan# 1162

Delta R.T. 0.00 min

Lab File: VL034514.D

Acq: 30 Dec 2019 13:35

Instrument :

MSVOA_L

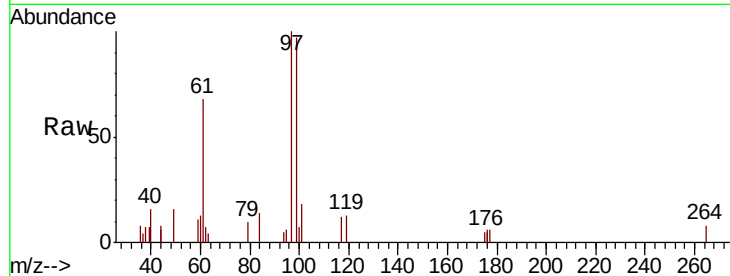
ClientSampleId :

VSTDIC0.03

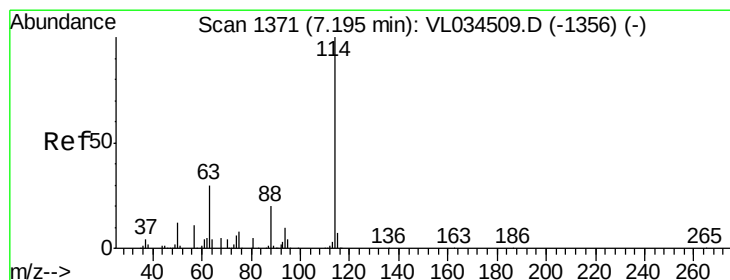
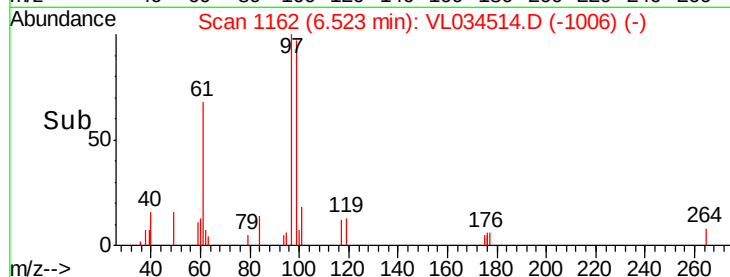
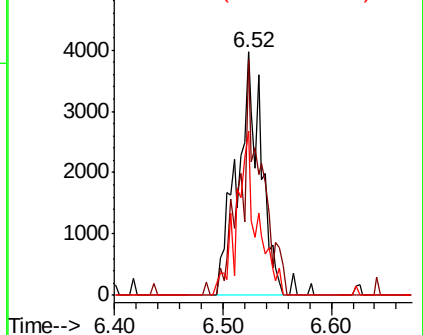
Tot Ion:	97	Resp:	6245
Ion	Ratio	Lower	Upper
97	100		
99	84.4	51.7	77.5#
61	55.9	42.9	64.3

Manual Integrations
APPROVED

apatel
1/2/2020 10:48:53 AM



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

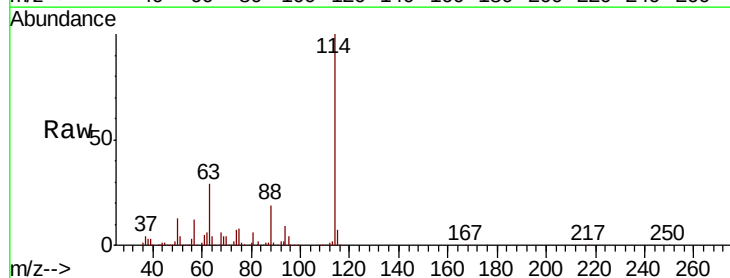
RT: 7.20 min Scan# 1371

Delta R.T. 0.00 min

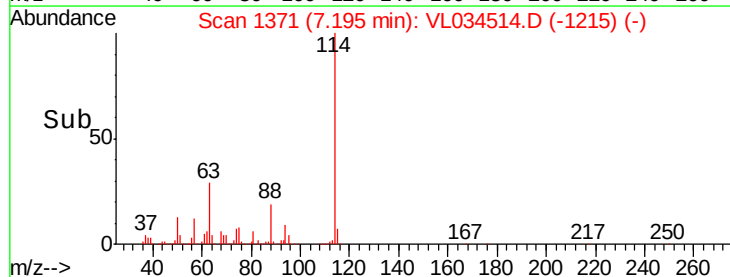
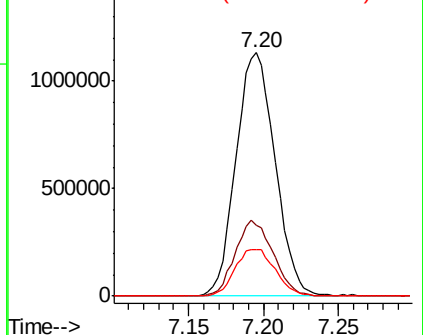
Lab File: VL034514.D

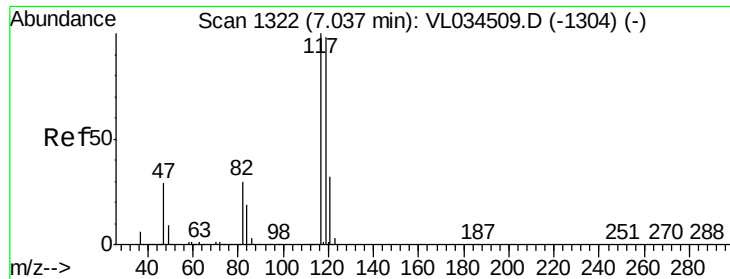
Acq: 30 Dec 2019 13:35

Tgt Ion:	114	Resp:	2060237
Ion	Ratio	Lower	Upper
114	100		
63	30.1	24.1	36.1
88	19.7	15.7	23.5



Abundance Ion 114.10 (113.80 to 114.80): V
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0





#35

Carbon Tetrachloride

Concen: 0.038 ppbv m

RT: 7.03 min Scan# 1319

Delta R.T. -0.01 min

Lab File: VL034514.D

Acq: 30 Dec 2019 13:35

Instrument :

MSVOA_L

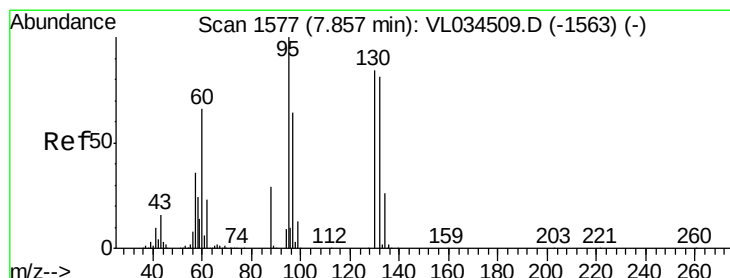
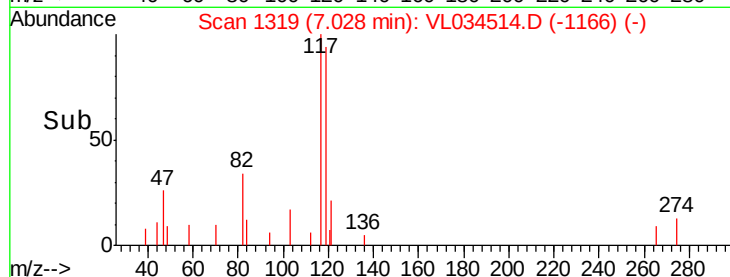
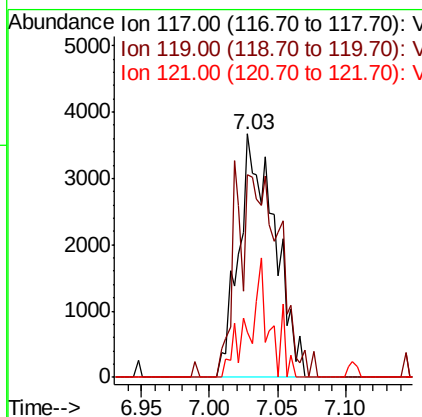
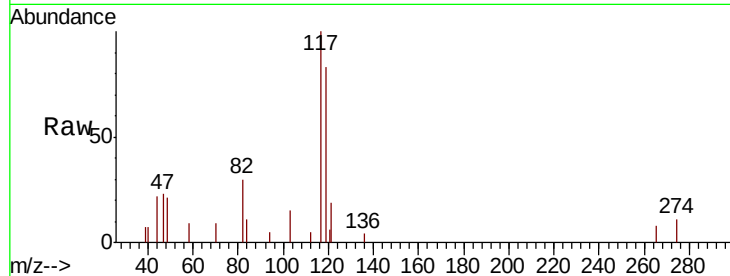
ClientSampleId :

VSTDIC0.03

Tot Ion:	117	Resp:	6707
Ion	Ratio	Lower	Upper
117	100		
119	83.3	78.7	118.1
121	18.7	25.9	38.9#

Manual Integrations
APPROVED

apatel
1/2/2020 10:48:53 AM



#38

Trichloroethene

Concen: 0.026 ppbv m

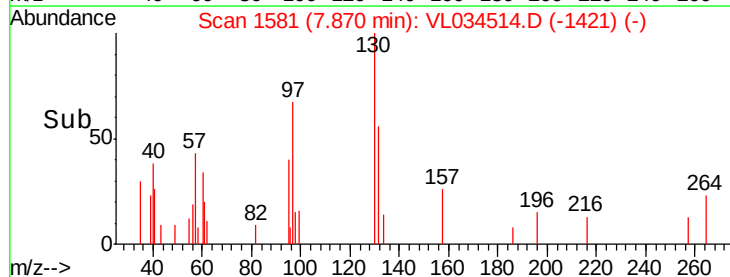
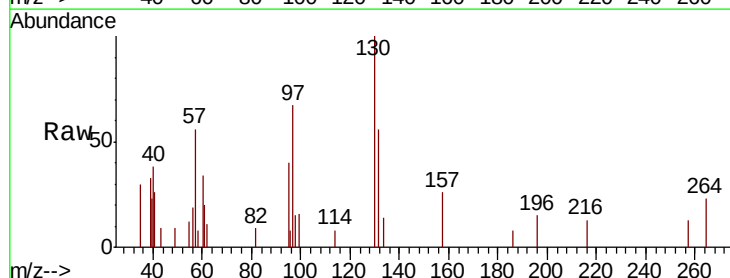
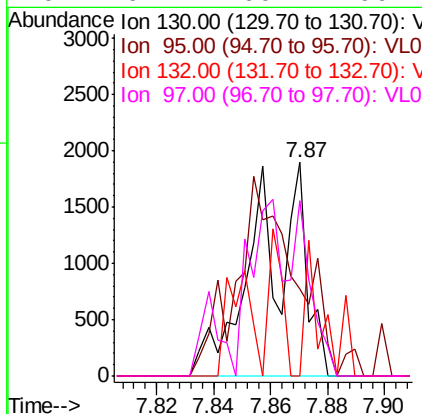
RT: 7.87 min Scan# 1581

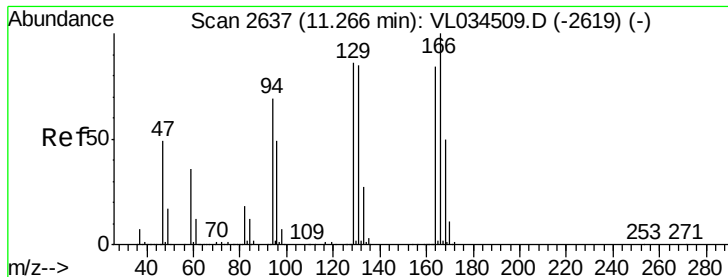
Delta R.T. 0.01 min

Lab File: VL034514.D

Acq: 30 Dec 2019 13:35

Tgt Ion:	130	Resp:	2164
Ion	Ratio	Lower	Upper
130	100		
95	40.5	94.2	141.2#
132	0.0	76.1	114.1#
97	67.4	60.2	90.2





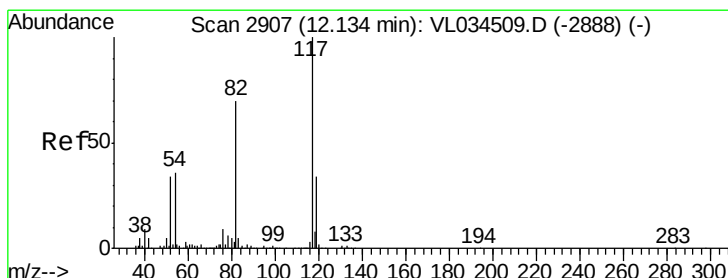
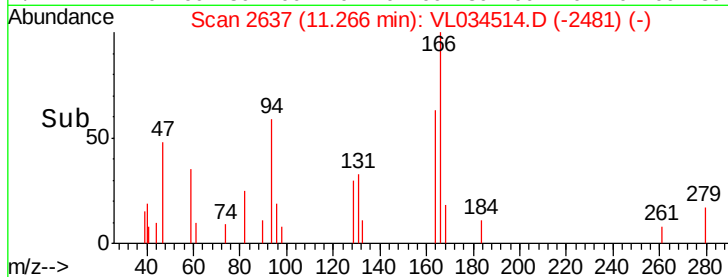
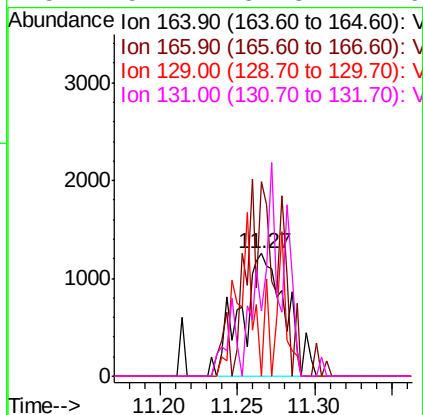
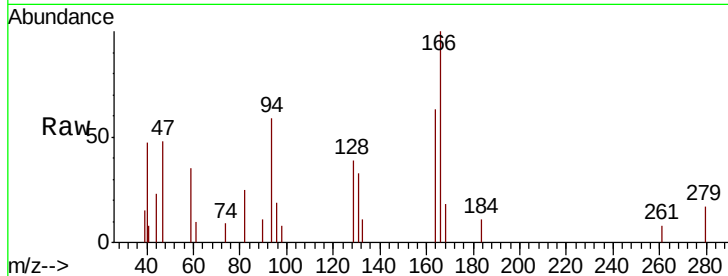
#52
Tetrachloroethene
Concen: 0.028 ppbv m
RT: 11.27 min Scan# 2637
Delta R.T. 0.00 min
Lab File: VL034514.D
Acq: 30 Dec 2019 13:35

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

Tot Ion	Ratio	Lower	Upper
164	100		
166	158.2	95.7	143.5#
129	0.0	82.2	123.2#
131	52.7	81.3	121.9#

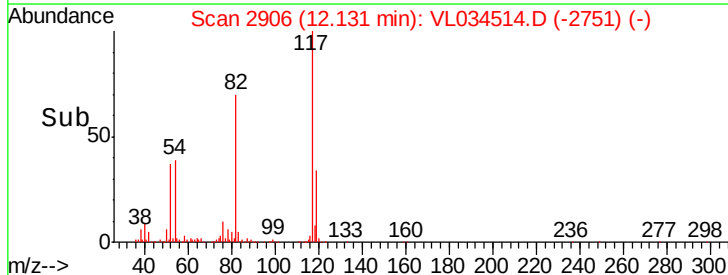
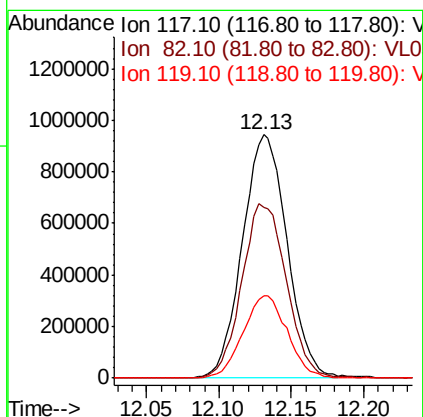
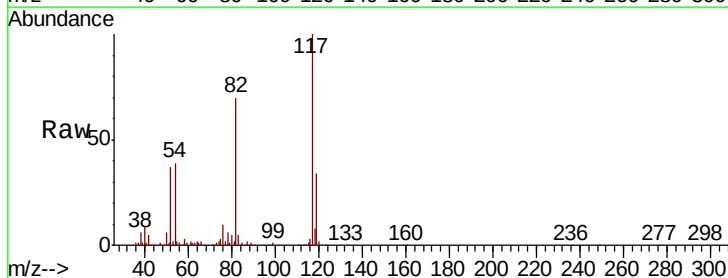
Manual Integrations
APPROVED

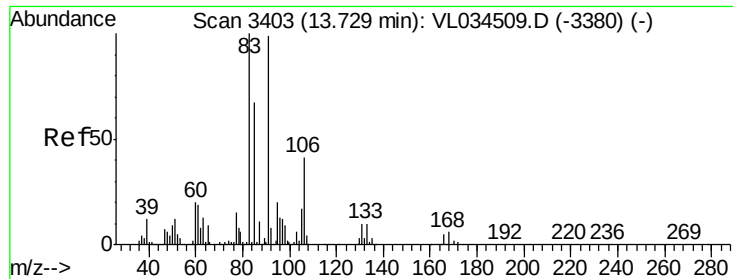
apatel
1/2/2020 10:48:53 AM



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.13 min Scan# 2906
Delta R.T. -0.00 min
Lab File: VL034514.D
Acq: 30 Dec 2019 13:35

Tgt Ion	Ratio	Lower	Upper
117	100		
82	71.7	56.2	84.4
119	33.7	27.1	40.7





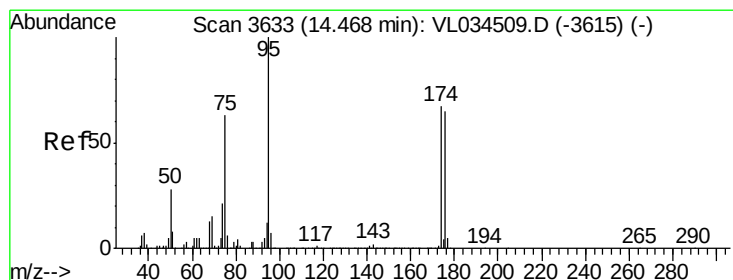
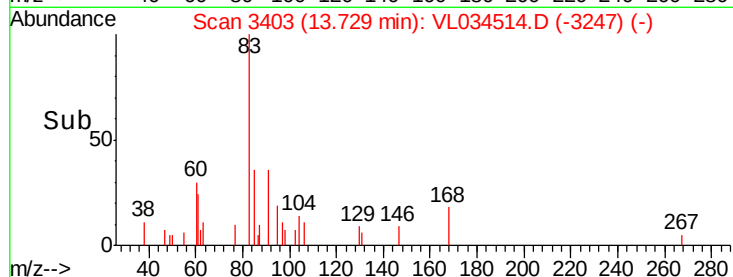
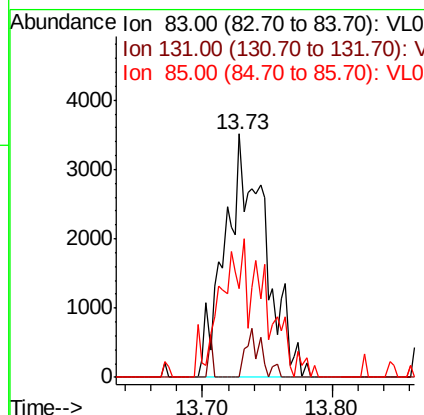
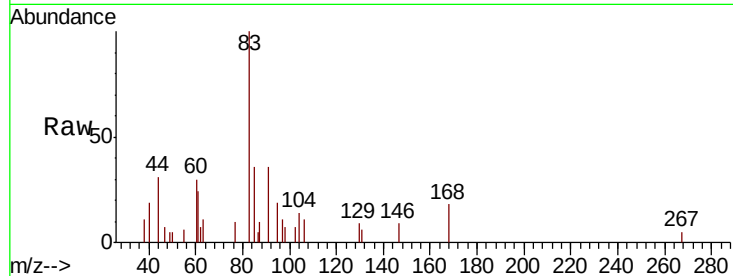
#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.037 ppbv m
 RT: 13.73 min Scan# 3403
 Delta R.T. 0.00 min
 Lab File: VL034514.D
 Acq: 30 Dec 2019 13:35

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

Tot Ion	Ratio	Lower	Upper
83	100		
131	0.0	4.8	14.4#
85	62.5	32.5	97.4

Manual Integrations
 APPROVED

apatel
 1/2/2020 10:48:53 AM



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.962 ppbv
 RT: 14.47 min Scan# 3633
 Delta R.T. 0.00 min
 Lab File: VL034514.D
 Acq: 30 Dec 2019 13:35

Tgt Ion	Ratio	Lower	Upper
95	100		
174	64.5	52.4	78.6
175	4.6	3.9	5.9

