

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL100318\
 Data File : VL032594.D
 Acq On : 4 Oct 2018 9:32
 Operator : SY/AP
 Sample : OC092418 CAN 10288
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 QC092418 CAN 10288

Manual Integrations
 APPROVED

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 10/4/2018 7:07:10 PM

Quant Time: Oct 04 10:09:32 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Oct 0
 QLast Update : Mon Oct 01 06:49:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.78	49	1118403	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.31	114	2563353	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.27	117	2722152	10.00	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.60	95	1955962	9.53	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	3.03	51	1040750	11.190	ppbv	94
5) Vinyl Chloride	3.31	62	8692	0.159	ppbv #	74
8) Dichlorotetrafluoroethane	3.23	85	21471	0.190	ppbv	89
11) Trichlorofluoromethane	4.02	101	14910	0.121	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.57	101	10976	0.109	ppbv	97
15) Acetone	3.93	43	104612	1.066	ppbv	98
29) Chloroform	5.87	83	21125	0.128	ppbv #	78
32) 1,1,1-Trichloroethane	6.64	97	18415m	0.105	ppbv	
34) 2-Butanone	5.37	43	15245m	0.100	ppbv	
35) Carbon Tetrachloride	7.16	117	20686m	0.116	ppbv	
36) Benzene	7.03	78	14145m	0.068	ppbv	
37) 1,2-Dichloroethane	6.43	62	12181m	0.098	ppbv	

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

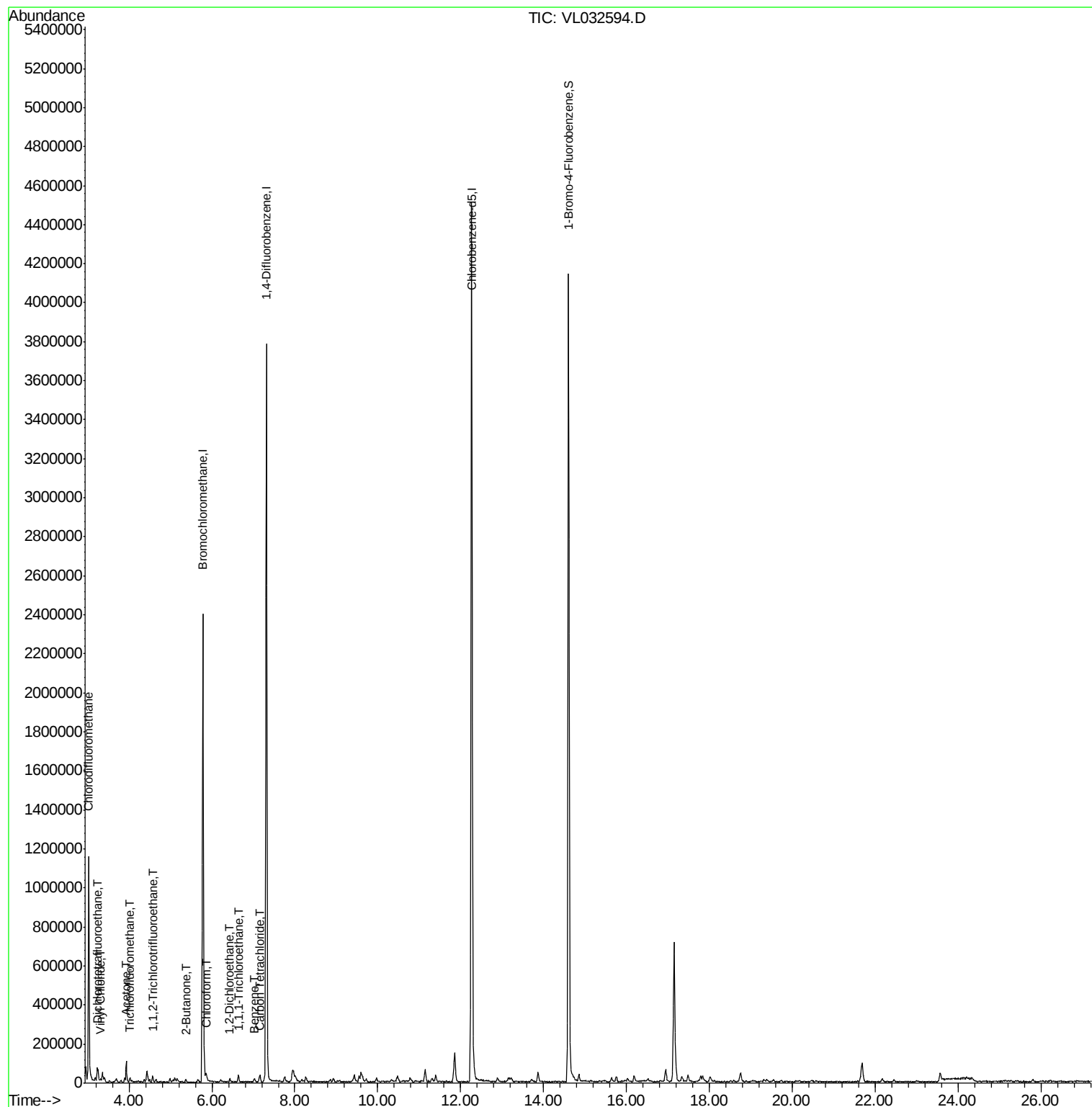
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL100318\
Data File : VL032594.D
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Operator : SY/AP
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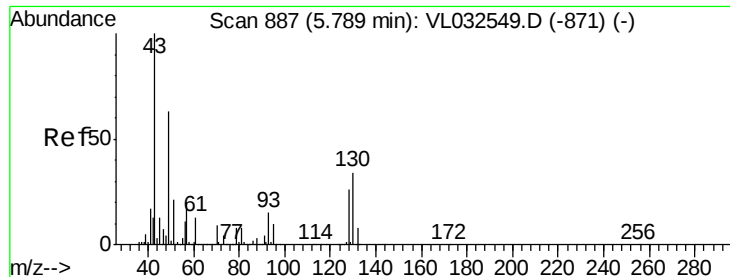
Instrument :
MSVOA_L
ClientSampleId :
QC092418 CAN 10288

Manual Integrations
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10/4/2018 7:07:10 PM

Quant Time: Oct 04 10:09:32 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL092418AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Oct
QLast Update : Mon Oct 01 06:49:26 2018
Response via : Initial Calibration





#1

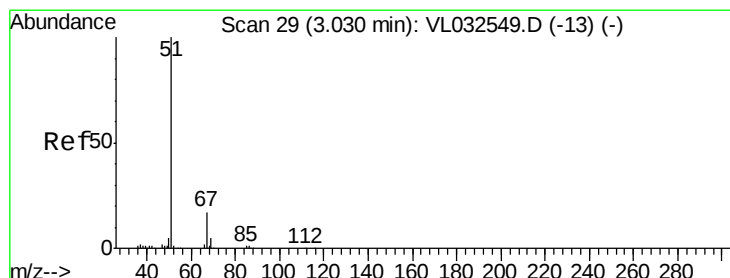
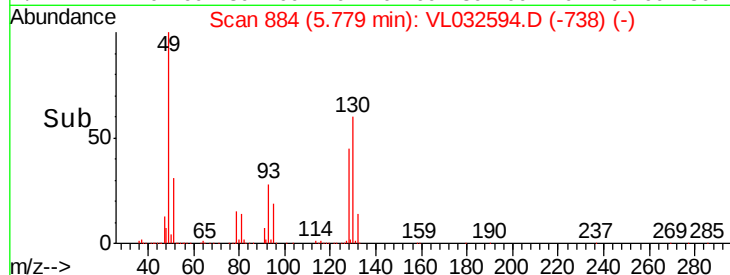
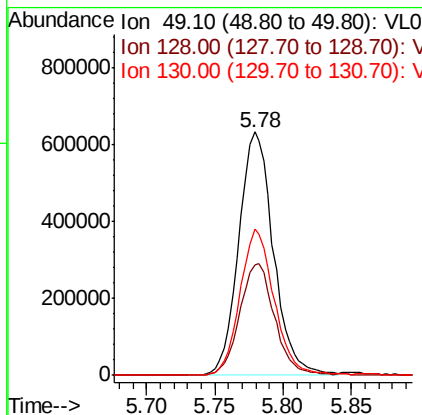
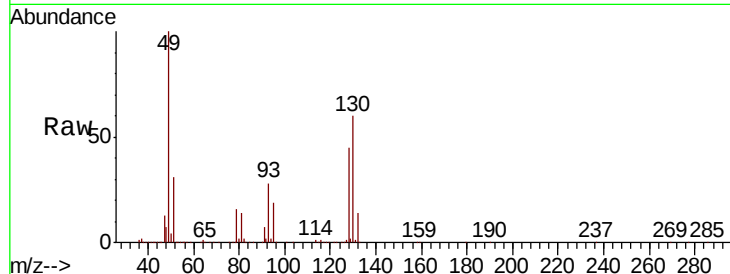
Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.78 min Scan# 884
 Delta R.T. -0.03 min
 Lab File: VL032594.D
 Acq: 4 Oct 2018 9:32

Instrument :
 MSVOA_L
 ClientSampleId :
 QC092418 CAN 10288

Tot Ion: 49 Resp: 1118403
 Ion Ratio Lower Upper
 49 100
 128 46.7 20.7 62.1
 130 59.8 26.6 79.7

Manual Integrations
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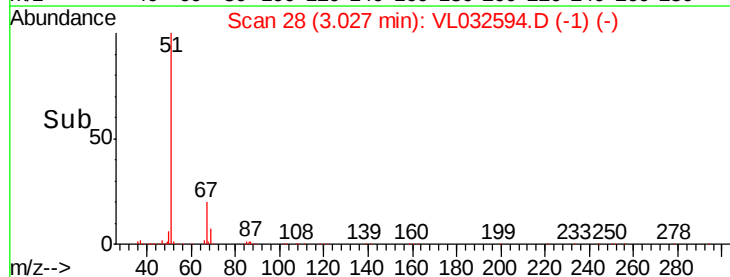
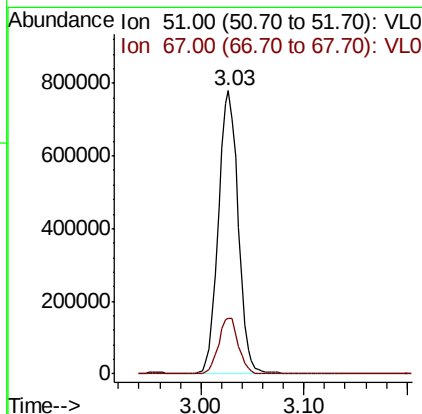
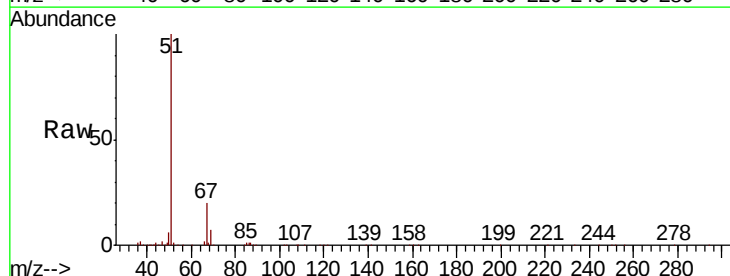
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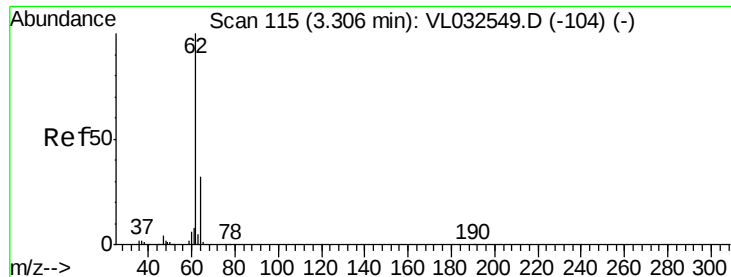


#3

Chlorodifluoromethane
 Concen: 11.190 ppbv
 RT: 3.03 min Scan# 28
 Delta R.T. -0.02 min
 Lab File: VL032594.D
 Acq: 4 Oct 2018 9:32

Tgt Ion: 51 Resp: 1040750
 Ion Ratio Lower Upper
 51 100
 67 19.7 13.8 20.8





#5

Vinyl Chloride

Concen: 0.159 ppbv

RT: 3.31 min Scan# 115

Delta R.T. -0.02 min

Lab File: VL032594.D

Acq: 4 Oct 2018 9:32

Instrument :

MSVOA_L

ClientSampleId :

QC092418 CAN 10288

Tot Ion: 62 Resp: 8692

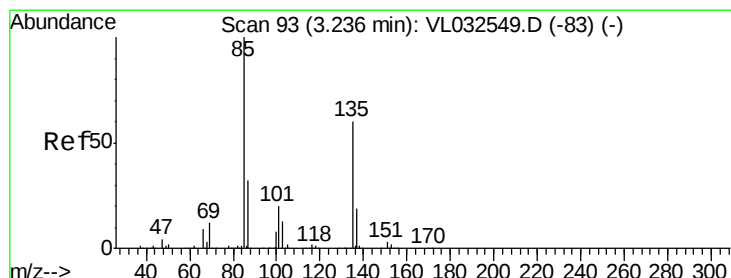
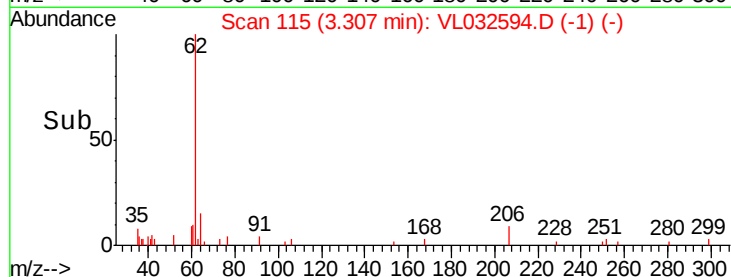
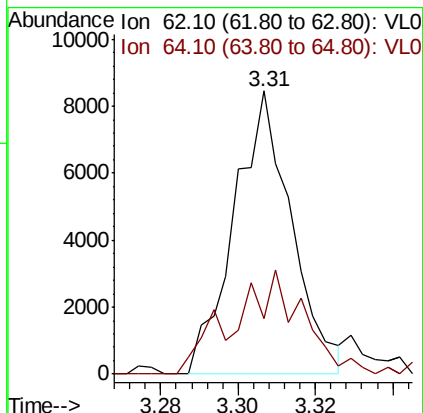
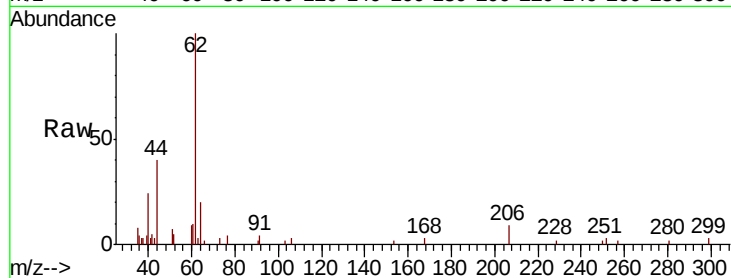
Ion Ratio Lower Upper

62 100

64 16.7 25.0 37.6#

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#8

Dichlorotetrafluoroethane

Concen: 0.190 ppbv

RT: 3.23 min Scan# 92

Delta R.T. -0.02 min

Lab File: VL032594.D

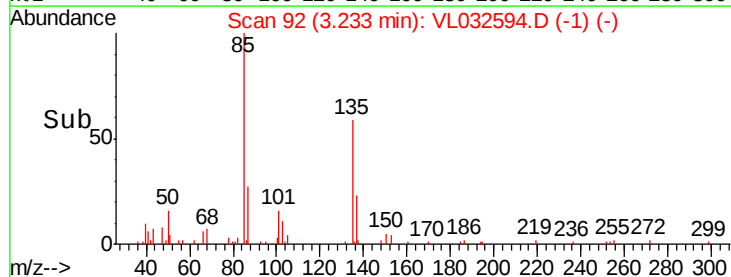
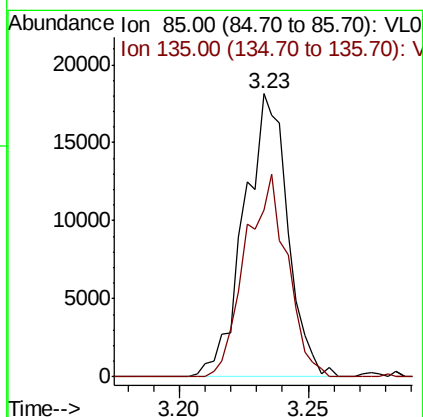
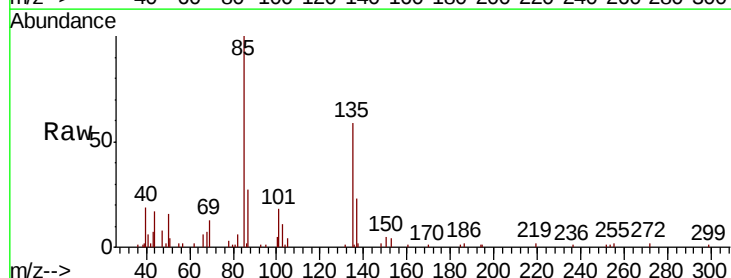
Acq: 4 Oct 2018 9:32

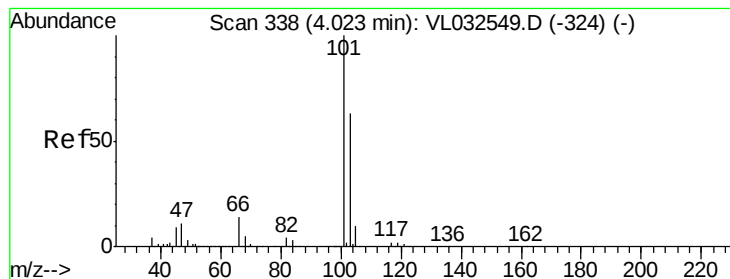
Tgt Ion: 85 Resp: 21471

Ion Ratio Lower Upper

85 100

135 68.9 48.6 72.8





#11

Trichlorofluoromethane

Concen: 0.121 ppbv

RT: 4.02 min Scan# 337

Delta R.T. -0.02 min

Lab File: VL032594.D

Acq: 4 Oct 2018 9:32

Instrument :

MSVOA_L

ClientSampleId :

QC092418 CAN 10288

Tot Ion:101 Resp: 14910

Ion Ratio Lower Upper

101 100

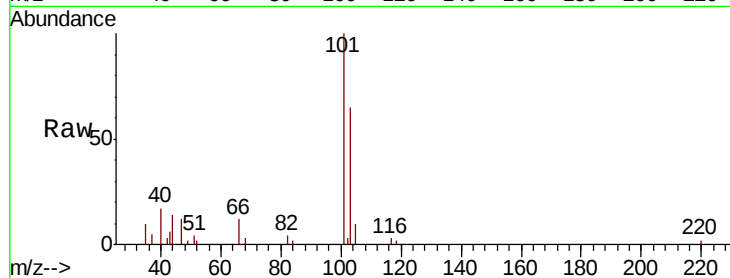
103 65.1 52.8 79.2

Manual Integrations

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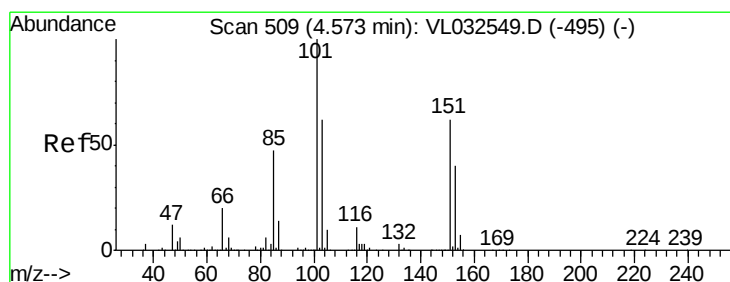
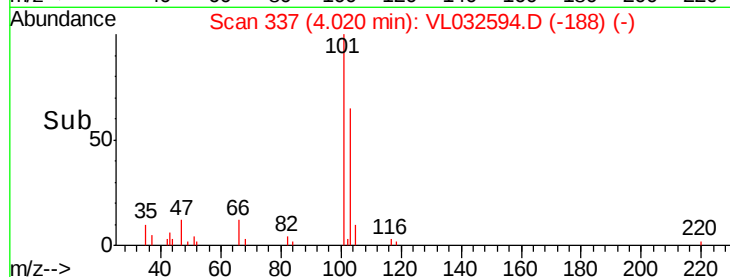
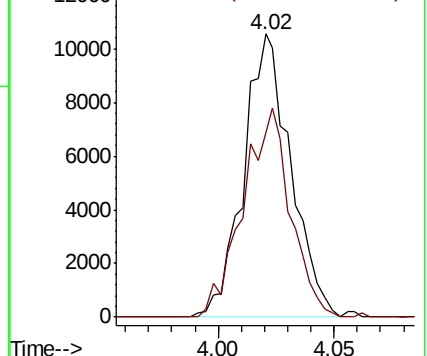
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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.109 ppbv

RT: 4.57 min Scan# 509

Delta R.T. -0.02 min

Lab File: VL032594.D

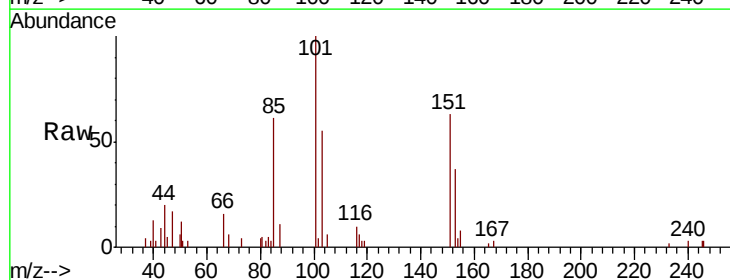
Acq: 4 Oct 2018 9:32

Tgt Ion:101 Resp: 10976

Ion Ratio Lower Upper

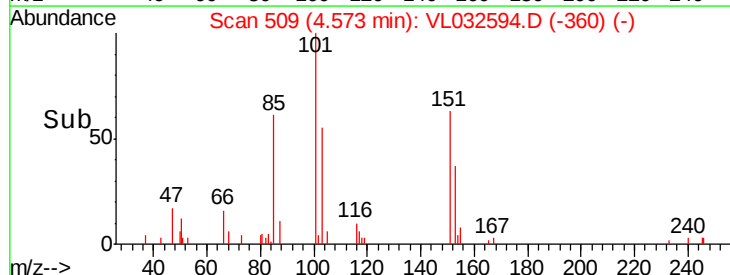
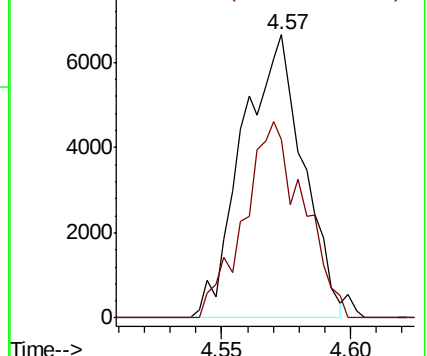
101 100

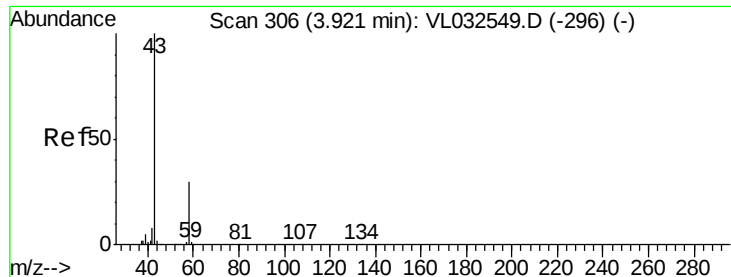
151 68.0 52.6 78.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#15

Acetone

Concen: 1.066 ppbv

RT: 3.93 min Scan# 309

Delta R.T. -0.01 min

Lab File: VL032594.D

Acq: 4 Oct 2018 9:32

Instrument :

MSVOA_L

ClientSampleId :

QC092418 CAN 10288

Tot Ion: 43 Resp: 104612

Ion Ratio Lower Upper

43 100

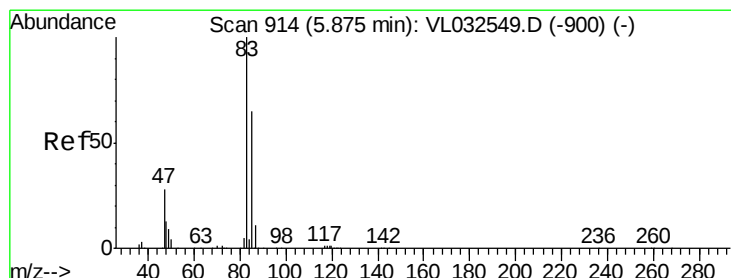
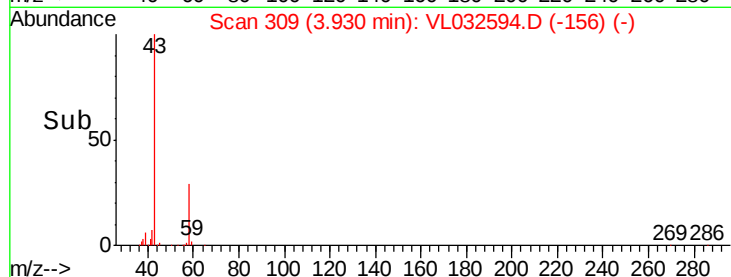
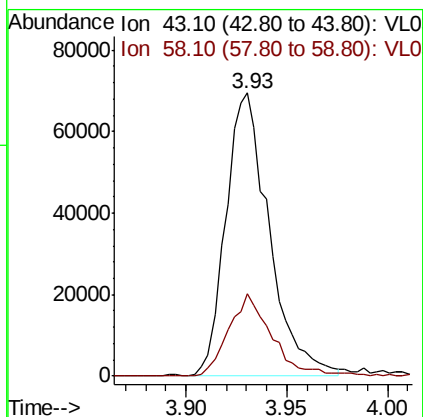
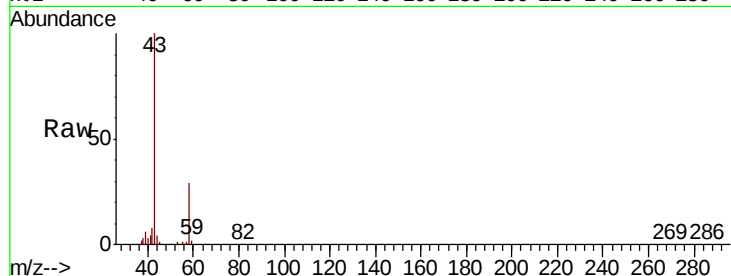
58 29.3 22.6 33.8

Manual Integrations

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#29

Chloroform

Concen: 0.128 ppbv

RT: 5.87 min Scan# 911

Delta R.T. -0.03 min

Lab File: VL032594.D

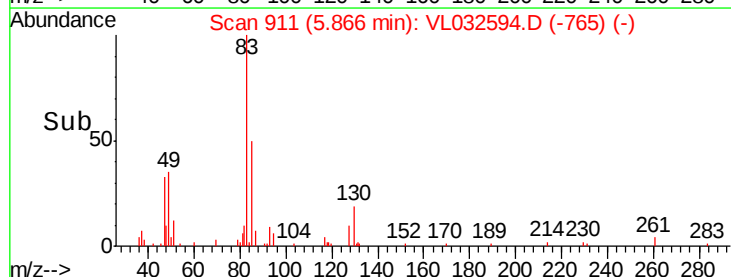
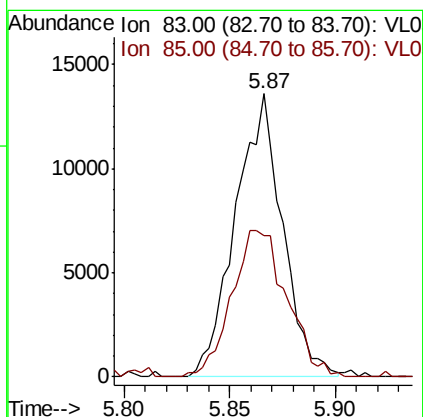
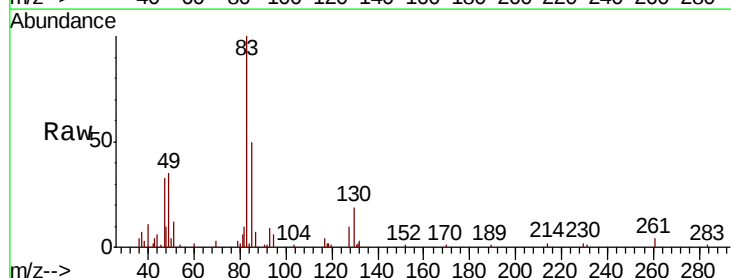
Acq: 4 Oct 2018 9:32

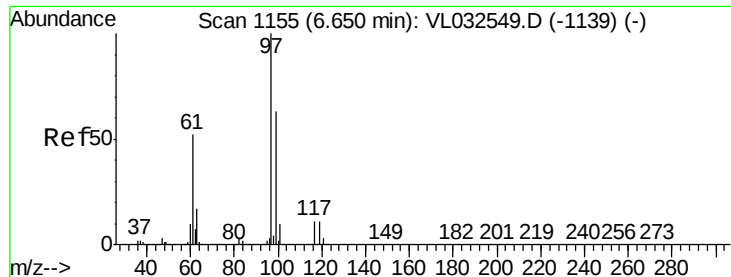
Tgt Ion: 83 Resp: 21125

Ion Ratio Lower Upper

83 100

85 48.3 52.5 78.7#





#32

1,1,1-Trichloroethane

Concen: 0.105 ppbv m

RT: 6.64 min Scan# 1151

Delta R.T. -0.03 min

Lab File: VL032594.D

Acq: 4 Oct 2018 9:32

Instrument :

MSVOA_L

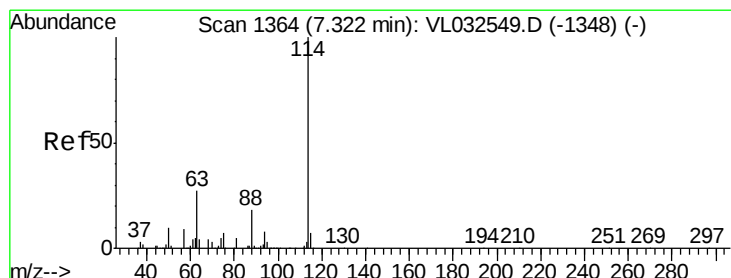
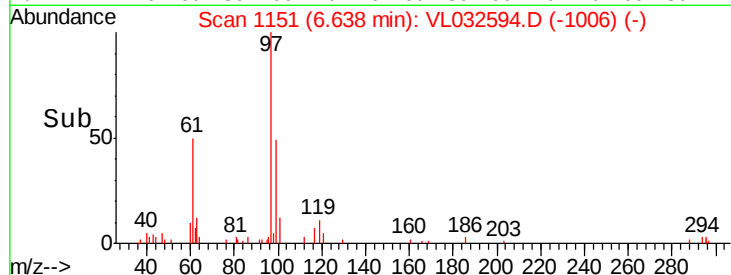
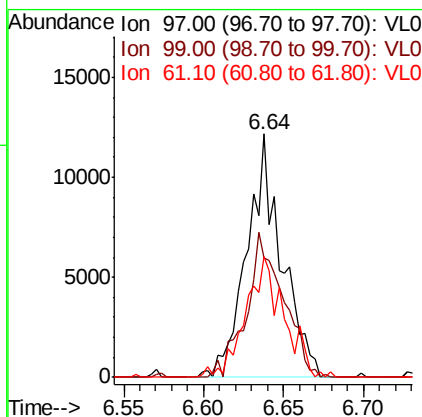
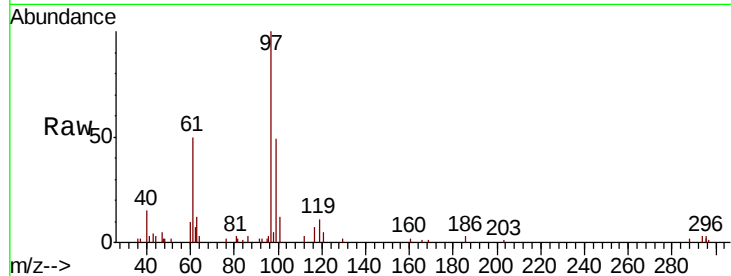
ClientSampleId :

QC092418 CAN 10288

Tot Ion:	97	Resp:	18415
Ion Ratio	Lower	Upper	
97	100		
99	63.2	52.1	78.1
61	54.7	42.5	63.7

Manual Integrations
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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

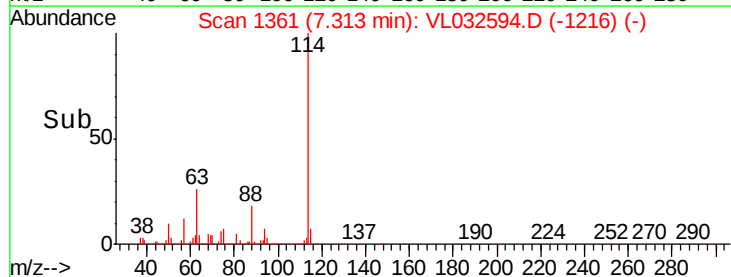
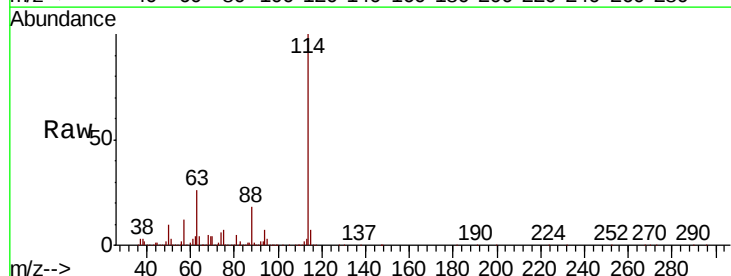
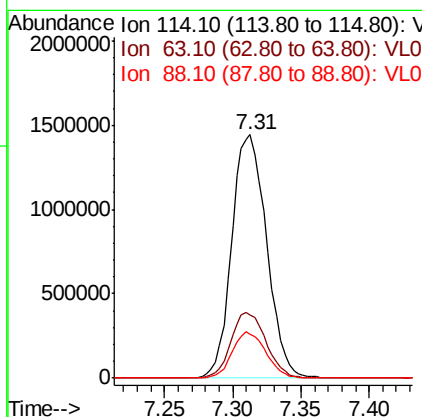
RT: 7.31 min Scan# 1361

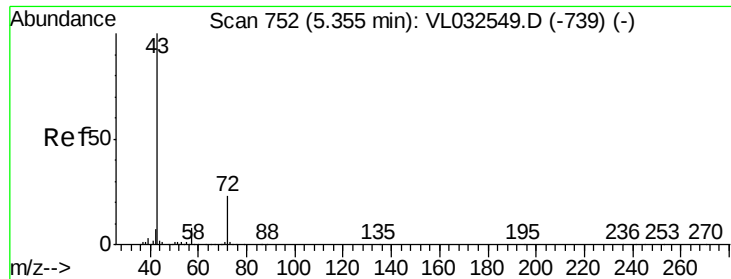
Delta R.T. -0.03 min

Lab File: VL032594.D

Acq: 4 Oct 2018 9:32

Tgt Ion:	114	Resp:	2563353
Ion Ratio	Lower	Upper	
114	100		
63	27.1	22.2	33.4
88	18.7	15.0	22.4





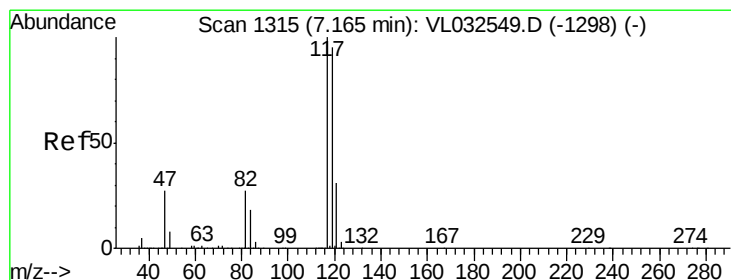
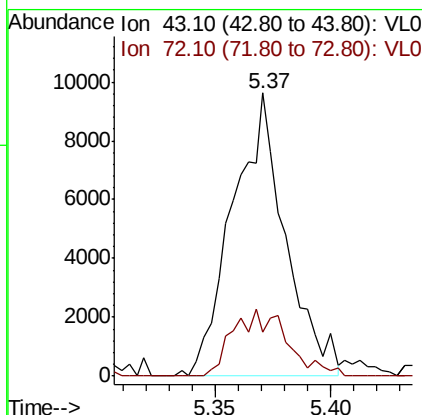
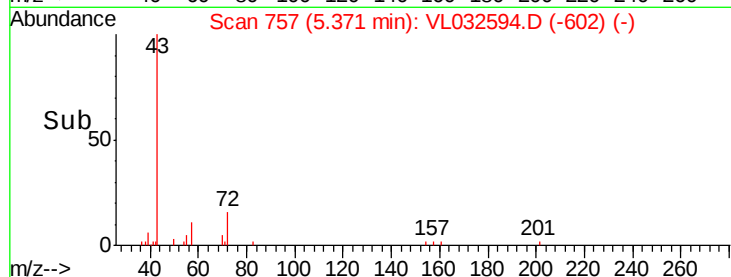
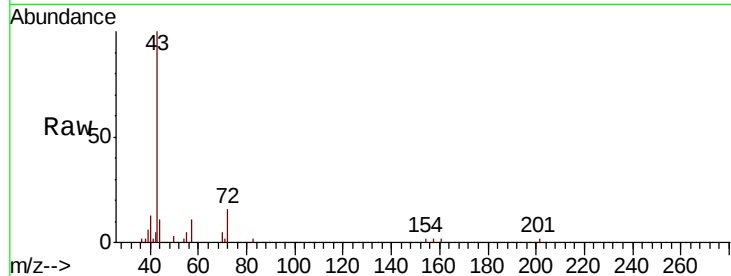
#34
2-Butanone
Concen: 0.100 ppbv m
RT: 5.37 min Scan# 757
Delta R.T. -0.00 min
Lab File: VL032594.D
Acq: 4 Oct 2018 9:32

Instrument :
MSVOA_L
ClientSampleId :
QC092418 CAN 10288

Tot Ion: 43 Resp: 15245
Ion Ratio Lower Upper
43 100
72 0.0 17.8 26.6#

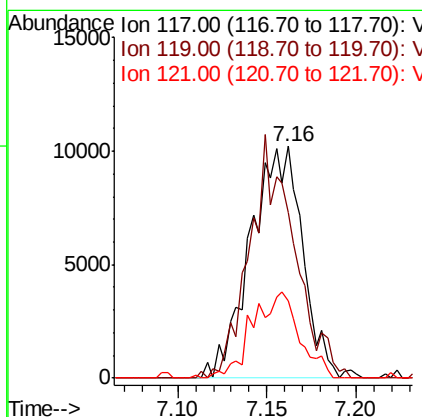
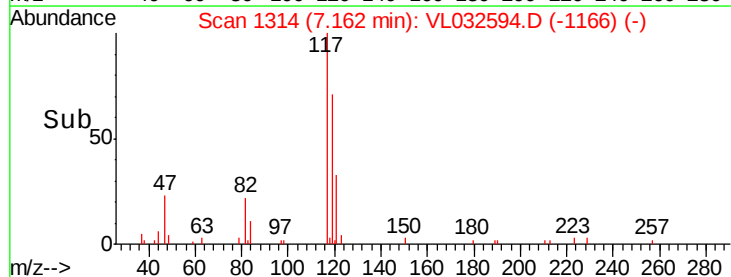
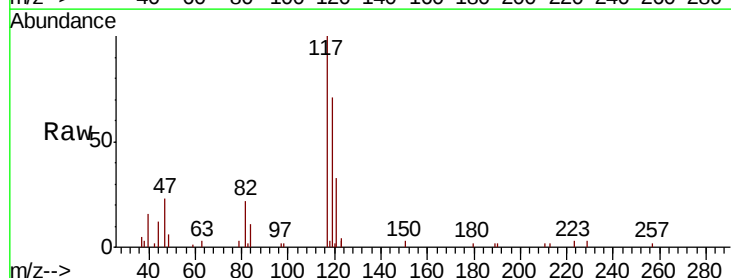
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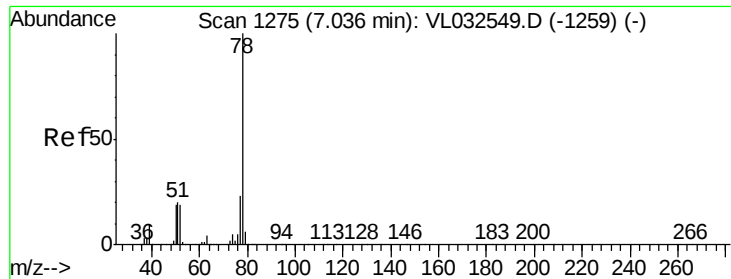
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#35
Carbon Tetrachloride
Concen: 0.116 ppbv m
RT: 7.16 min Scan# 1314
Delta R.T. -0.02 min
Lab File: VL032594.D
Acq: 4 Oct 2018 9:32

Tgt Ion: 117 Resp: 20686
Ion Ratio Lower Upper
117 100
119 71.2 76.6 115.0#
121 33.2 24.6 36.8





#36

Benzene

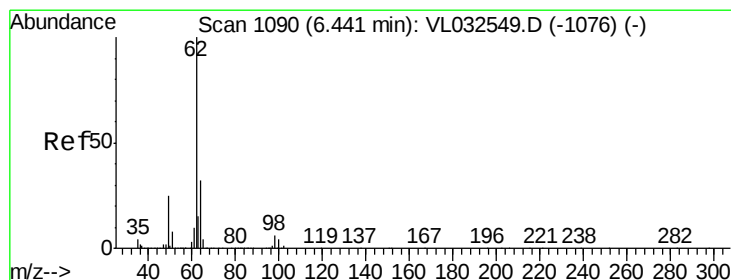
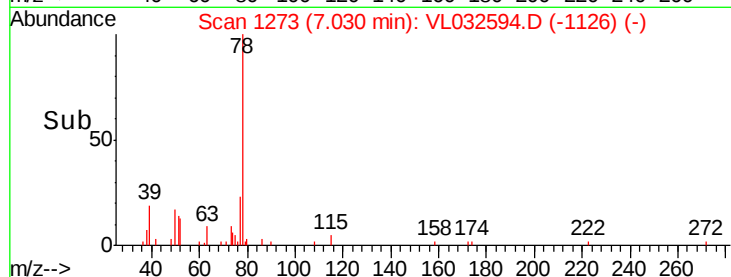
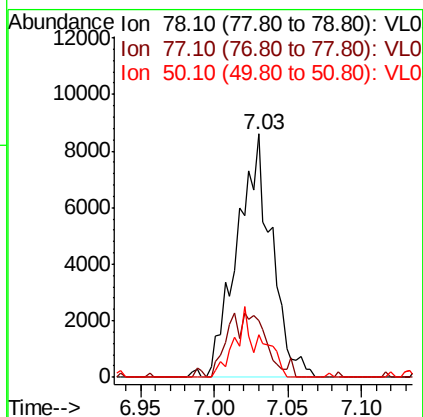
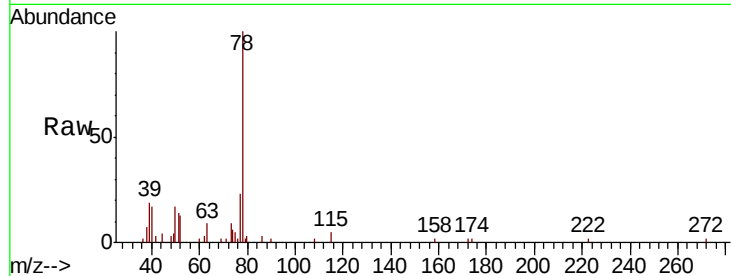
Concen: 0.068 ppbv m
RT: 7.03 min Scan# 1273
Delta R.T. -0.03 min
Lab File: VL032594.D
Acq: 4 Oct 2018 9:32

Instrument :
MSVOA_L
ClientSampleId :
QC092418 CAN 10288

Tot Ion	Ratio	Lower	Upper
78	100		
77	23.1	18.4	27.6
50	17.3	14.4	21.6

Manual Integrations
APPROVED

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10/4/2018 7:07:10 PM

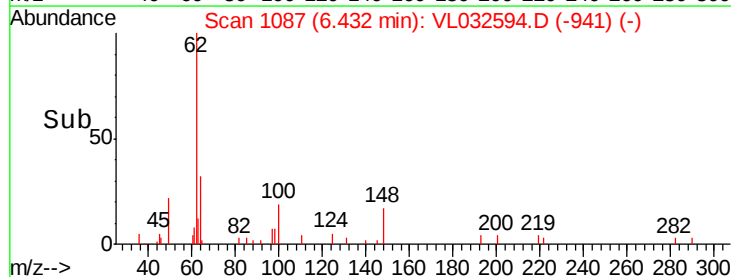
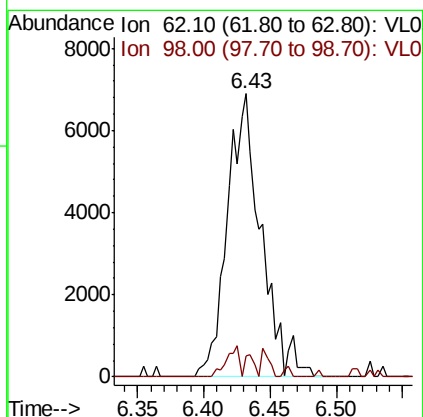
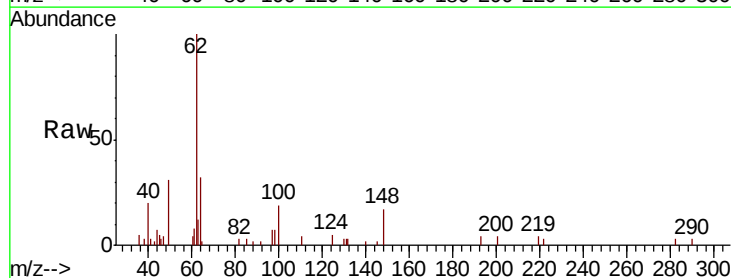


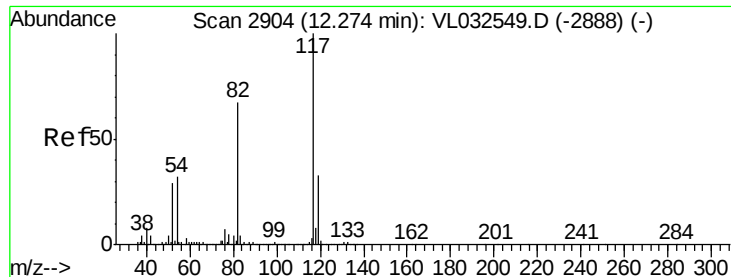
#37

1,2-Dichloroethane

Concen: 0.098 ppbv m
RT: 6.43 min Scan# 1087
Delta R.T. -0.03 min
Lab File: VL032594.D
Acq: 4 Oct 2018 9:32

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.1	5.0	7.6#





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.27 min Scan# 2902

Delta R.T. -0.03 min

Lab File: VL032594.D

Acq: 4 Oct 2018 9:32

Instrument :

MSVOA_L

ClientSampleId :

QC092418 CAN 10288

Tot Ion:117 Resp: 2722152

Ion Ratio Lower Upper

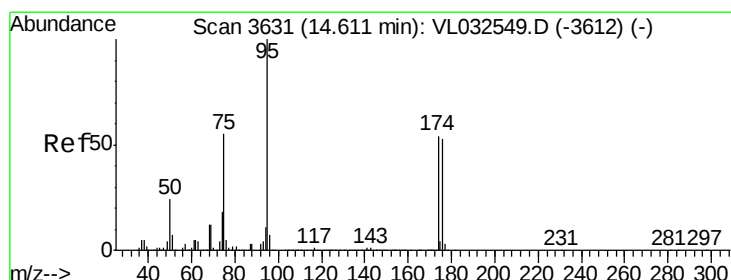
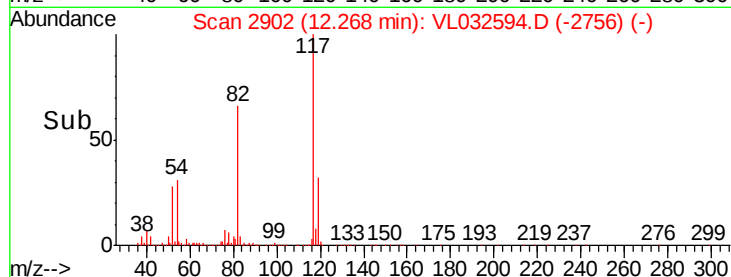
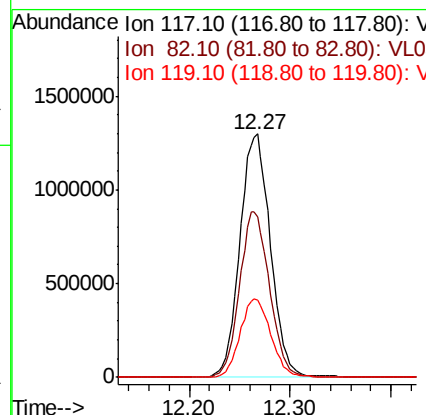
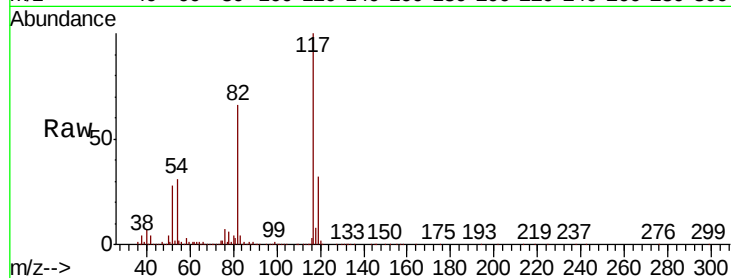
117 100

82 67.0 53.0 79.6

119 32.7 45.9 68.9#

Manual Integrations
APPROVED

MMDadoda
10/4/2018 7:07:10 PM



#68

1-Bromo-4-Fluorobenzene

Concen: 9.528 ppbv

RT: 14.60 min Scan# 3628

Delta R.T. -0.03 min

Lab File: VL032594.D

Acq: 4 Oct 2018 9:32

Tgt Ion: 95 Resp: 1955962

Ion Ratio Lower Upper

95 100

174 59.9 46.3 69.5

175 4.3 3.4 5.0

