

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032119\
 Data File : VL033425.D
 Acq On : 21 Mar 2019 21:13
 Operator : SY/AP
 Sample : K1975-02DL2 40X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DL2

Manual Integrations
 APPROVED

MMDadoda
 3/25/2019 8:28:12 AM

Quant Time: Mar 24 15:40:23 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL031519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 15 2019
 QLast Update : Fri Mar 15 14:52:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	732837	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1715381	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1901832	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	756376	5.37	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	53.70%#

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
13) Ethanol	3.66	45	43609m	2.436	ppbv	
15) Acetone	3.90	43	717357	6.297	ppbv	96
52) Tetrachloroethene	11.37	164	695200	10.870	ppbv	98
53) Toluene	9.95	91	432161	2.477	ppbv	99

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

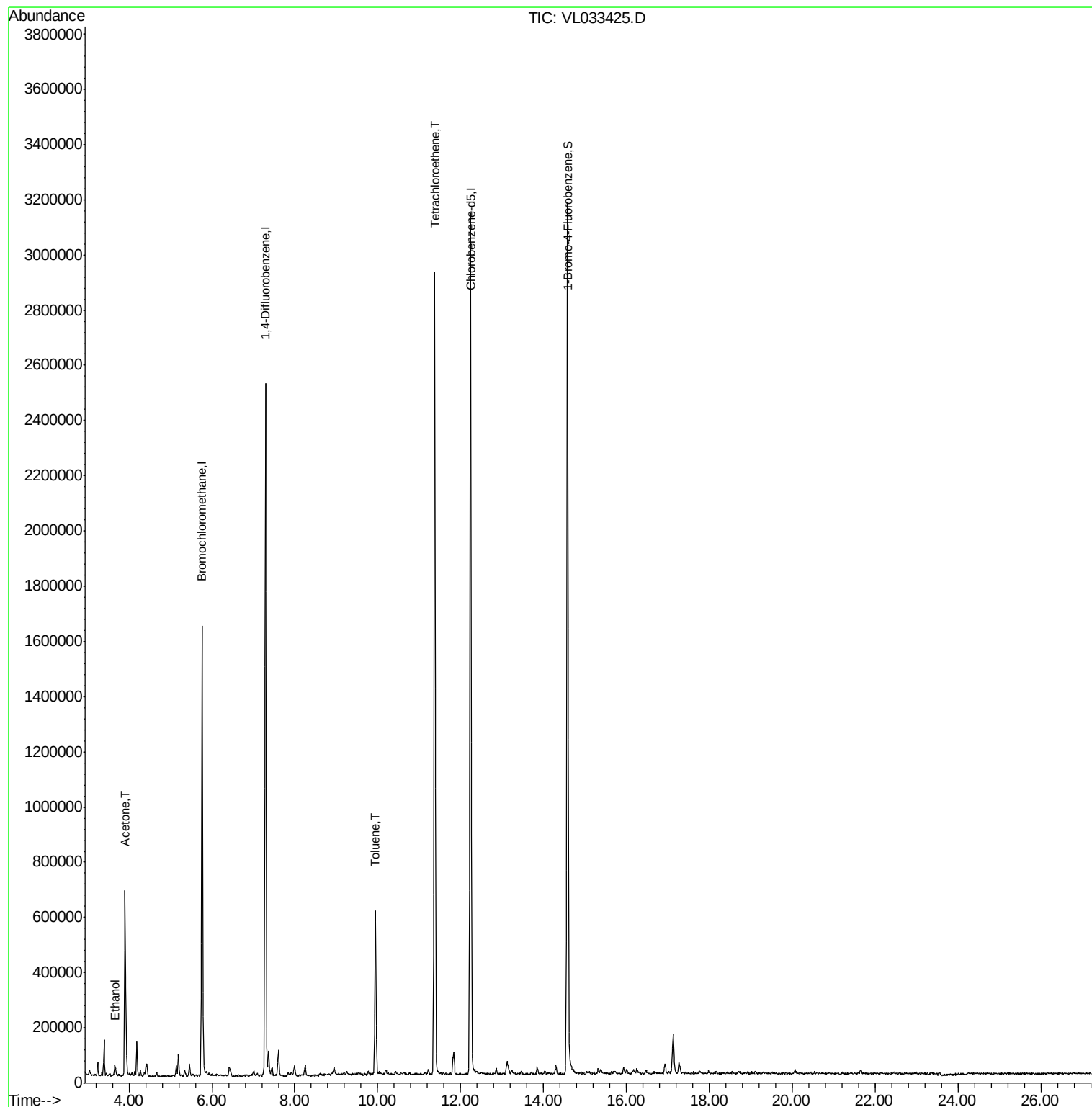
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL032119\
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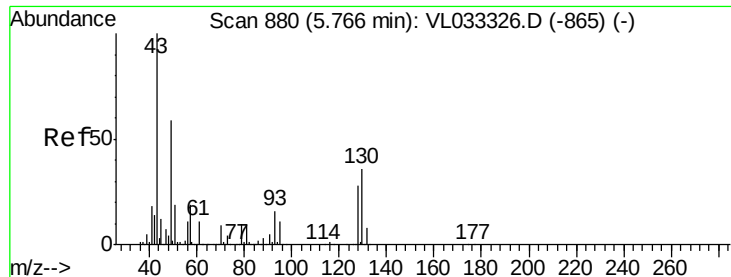
Instrument :
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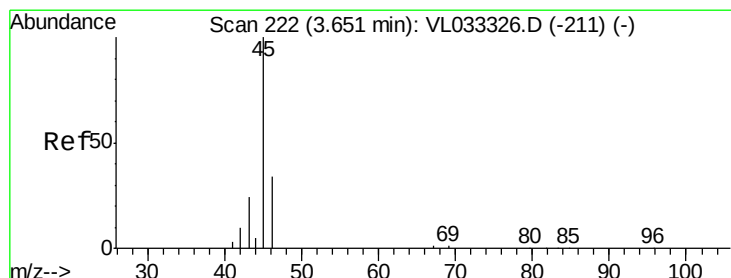
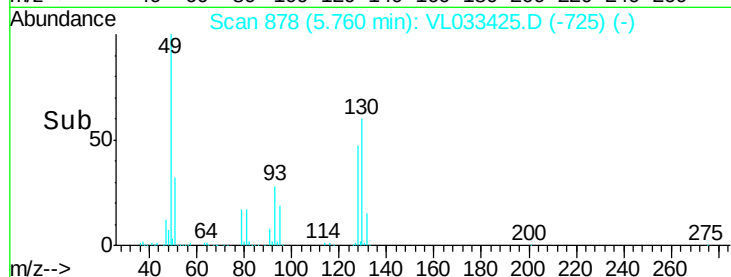
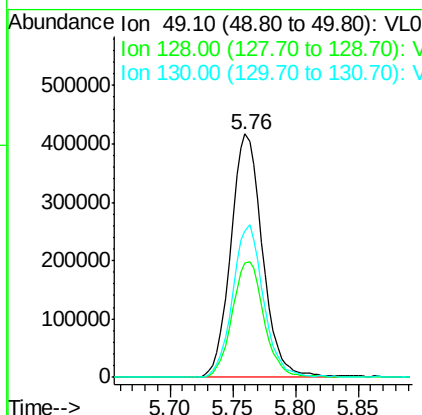
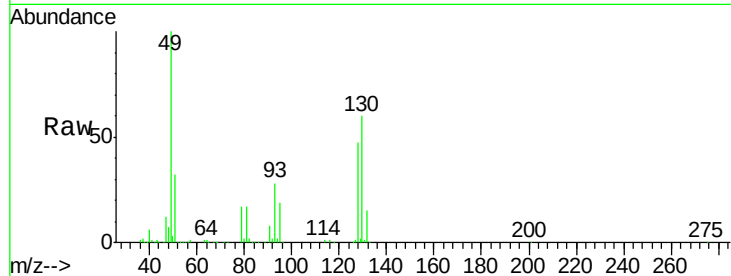
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.76 min Scan# 878
Delta R.T. -0.01 min
Lab File: VL033425.D
Acq: 21 Mar 2019 21:13

Instrument :
MSVOA_L
ClientSampleId :
IA1DL2

Tot Ion	Ratio	Lower	Upper
49	100		
128	47.8	23.5	70.6
130	61.2	30.1	90.3

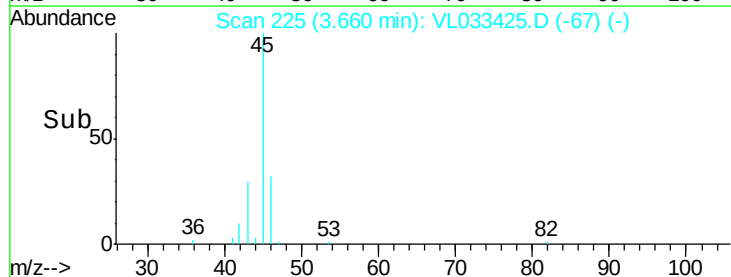
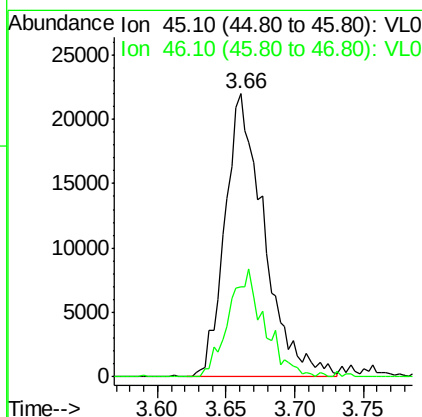
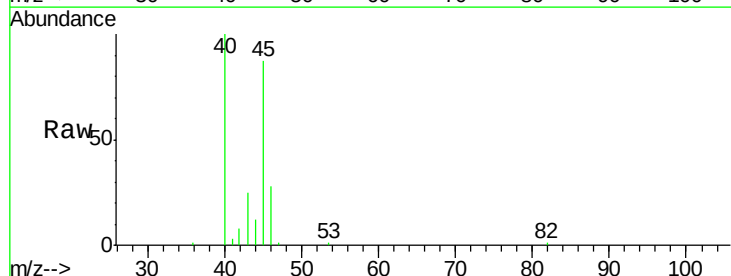
Manual Integrations
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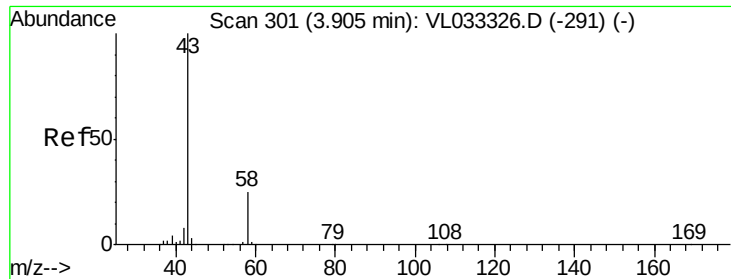
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#13
Ethanol
Concen: 2.436 ppbv m
RT: 3.66 min Scan# 225
Delta R.T. 0.01 min
Lab File: VL033425.D
Acq: 21 Mar 2019 21:13

Tgt Ion	Ratio	Lower	Upper
45	100		
46	35.1	14.9	59.7





#15

Acetone

Concen: 6.297 ppbv

RT: 3.90 min Scan# 300

Delta R.T. -0.00 min

Lab File: VL033425.D

Acq: 21 Mar 2019 21:13

Instrument :

MSVOA_L

ClientSampled :

IA1DL2

Tot Ion: 43 Resp: 717357

Ion Ratio Lower Upper

43 100

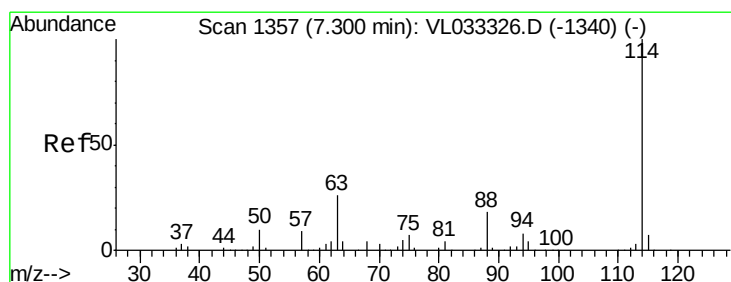
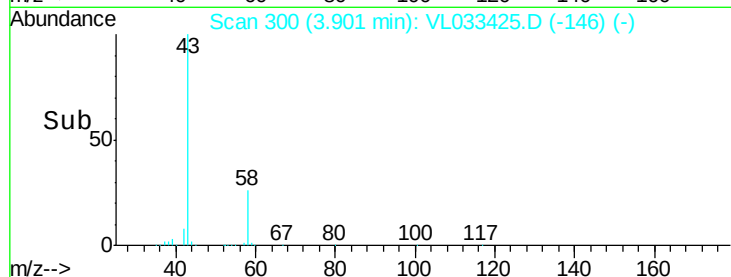
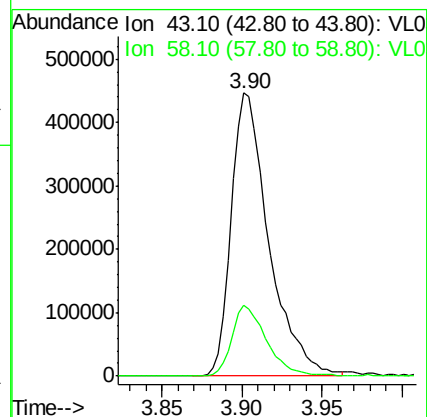
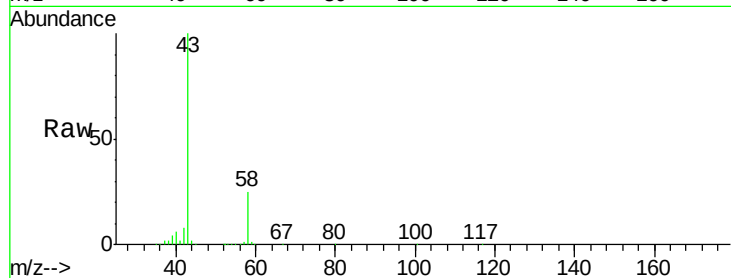
58 23.5 20.4 30.6

Manual Integrations

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.29 min Scan# 1354

Delta R.T. -0.01 min

Lab File: VL033425.D

Acq: 21 Mar 2019 21:13

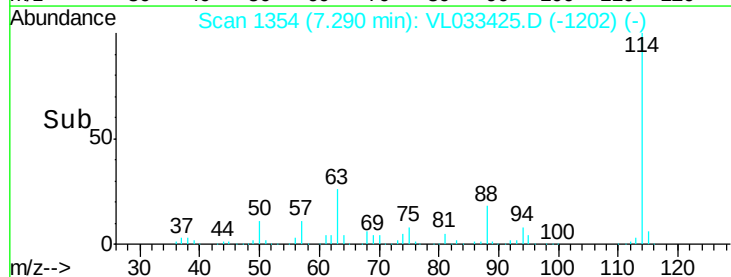
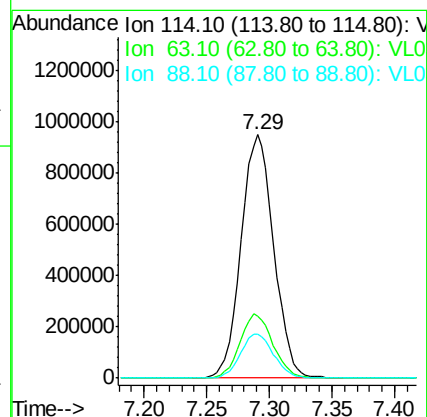
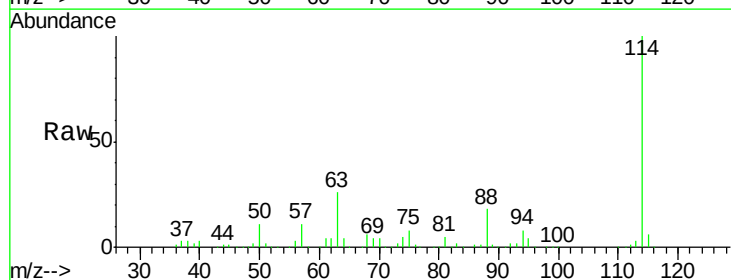
Tgt Ion: 114 Resp: 1715381

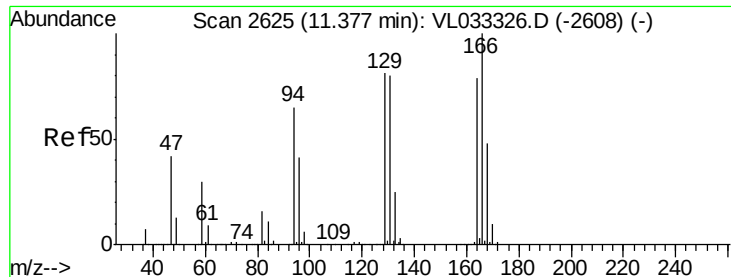
Ion Ratio Lower Upper

114 100

63 26.6 21.4 32.2

88 18.4 14.5 21.7





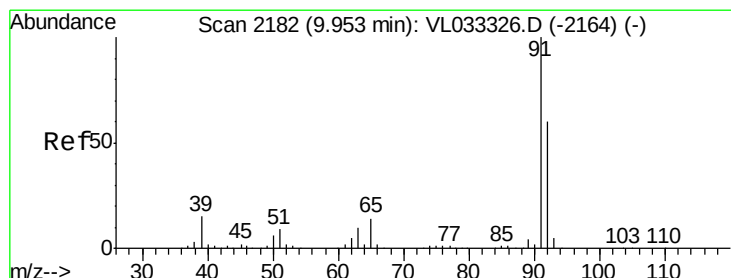
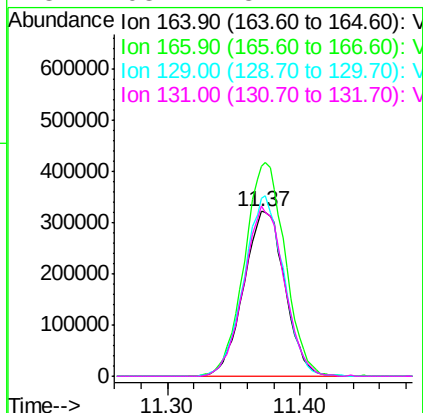
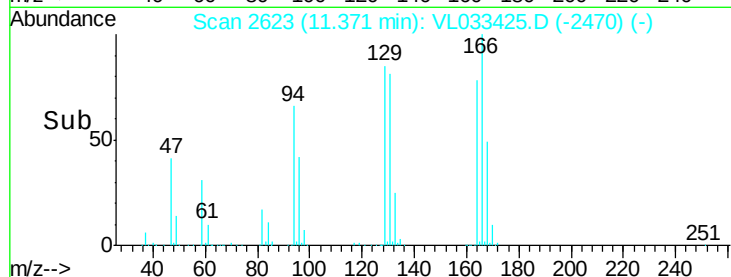
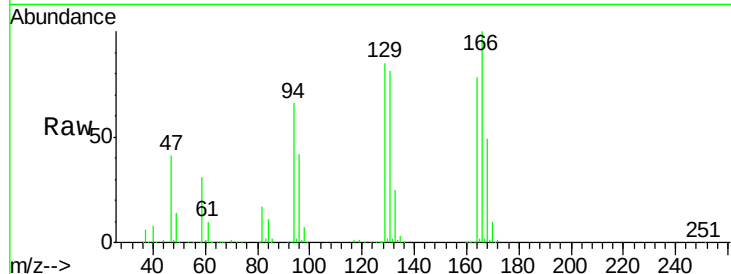
#52
Tetrachloroethene
Concen: 10.870 ppbv
RT: 11.37 min Scan# 2623
Delta R.T. -0.01 min
Lab File: VL033425.D
Acq: 21 Mar 2019 21:13

Instrument :
MSVOA_L
ClientSampleId :
IA1DL2

Tot Ion	Ratio	Lower	Upper
164	100		
166	127.6	101.5	152.3
129	108.0	82.2	123.2
131	103.1	81.1	121.7

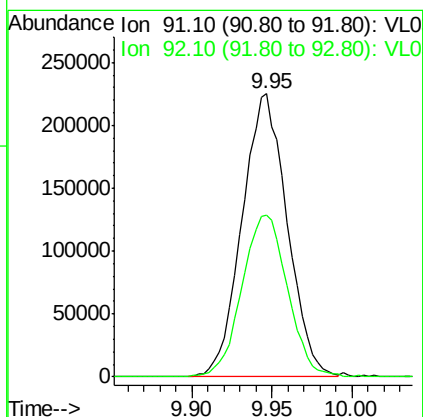
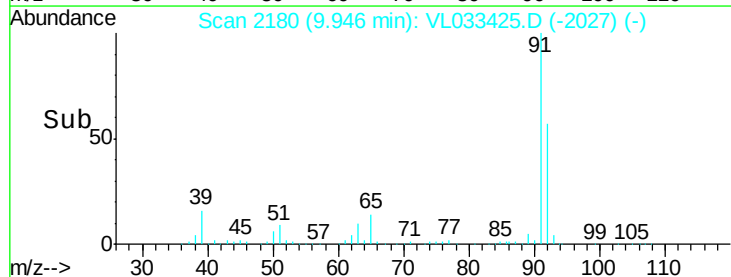
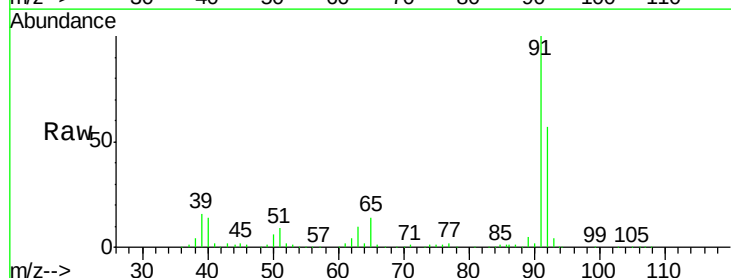
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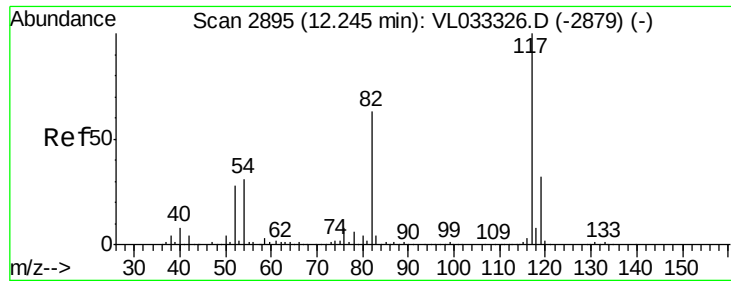
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#53
Toluene
Concen: 2.477 ppbv
RT: 9.95 min Scan# 2180
Delta R.T. -0.01 min
Lab File: VL033425.D
Acq: 21 Mar 2019 21:13

Tgt Ion	Ratio	Lower	Upper
91	100		
92	58.2	47.4	71.0





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2893

Delta R.T. -0.01 min

Lab File: VL033425.D

Acq: 21 Mar 2019 21:13

Instrument :

MSVOA_L

ClientSampled :

IA1DL2

Tot Ion:117 Resp: 1901832

Ion Ratio Lower Upper

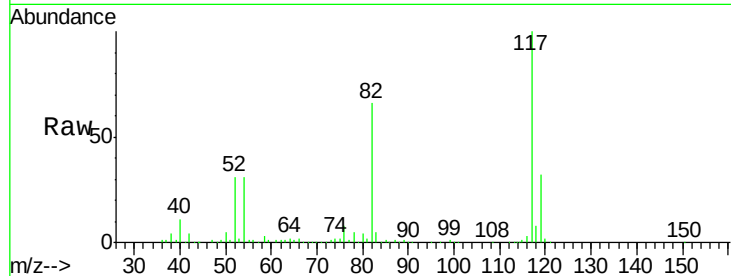
117 100

82 67.3 53.4 80.2

119 32.6 27.3 40.9

Manual Integrations
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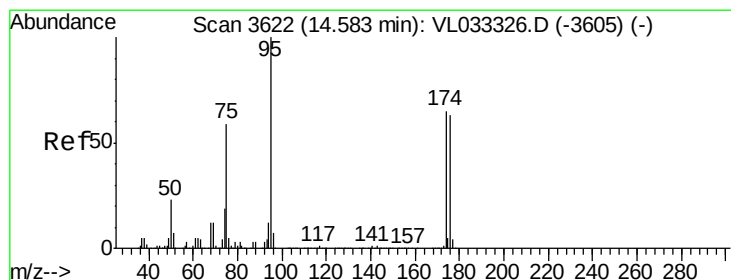
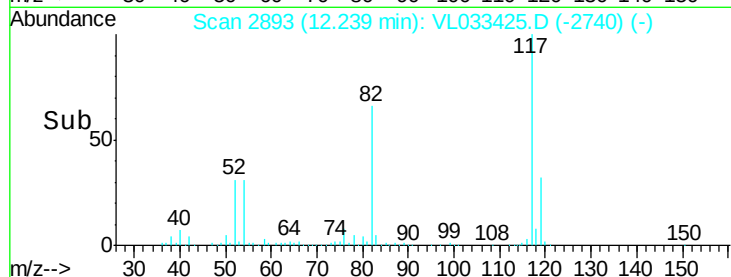
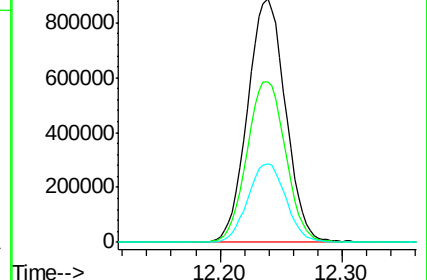
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Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#68

1-Bromo-4-Fluorobenzene

Concen: 5.367 ppbv

RT: 14.58 min Scan# 3620

Delta R.T. -0.01 min

Lab File: VL033425.D

Acq: 21 Mar 2019 21:13

Tgt Ion: 95 Resp: 756376

Ion Ratio Lower Upper

95 100

174 127.3 51.5 77.3#

175 9.4 3.8 5.6#

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

