

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040419\
 Data File : VL033560.D
 Acq On : 5 Apr 2019 10:23
 Operator : SY/AP
 Sample : K2226-04DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV4DL

Manual Integrations
 APPROVED

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 4/8/2019 3:22:39 AM

Quant Time: Apr 07 23:21:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 26 2019
 QLast Update : Tue Mar 26 16:00:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1152425	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2986300	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	3111225	10.00	ppbv	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.57	95	2393962	9.81	ppbv	-0.01	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.10%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.04	41	185165	3.323	ppbv	99
13) Ethanol	3.66	45	21870	1.517	ppbv	68
15) Acetone	3.90	43	718099	5.182	ppbv	97
25) Ethyl Acetate	5.78	43	106540	0.414	ppbv #	97
26) Hexane	5.78	57	40761	0.357	ppbv #	80
34) 2-Butanone	5.34	43	32063m	0.179	ppbv	
36) Benzene	7.00	78	36824	0.147	ppbv	95
53) Toluene	9.94	91	73484	0.252	ppbv	97

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

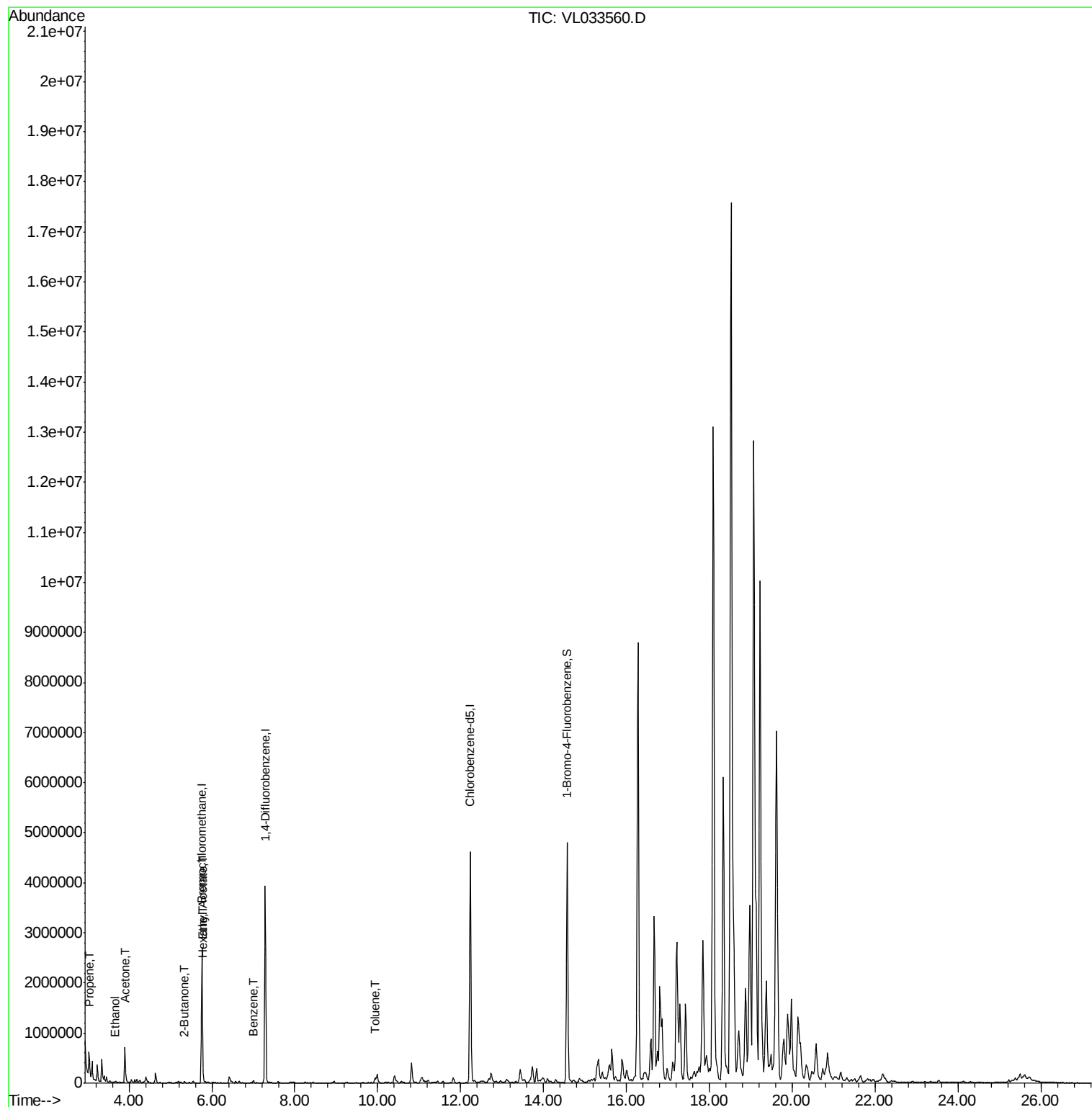
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL040419\
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Operator : SY/AP
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Mar
QLast Update : Tue Mar 26 16:00:50 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.01 min

Lab File: VL033560.D

Acq: 5 Apr 2019 10:23

Instrument :

MSVOA_L

ClientSampleId :

SV4DL

Tot Ion: 49 Resp: 1152425

Ion Ratio Lower Upper

49 100

128 52.2 24.0 72.0

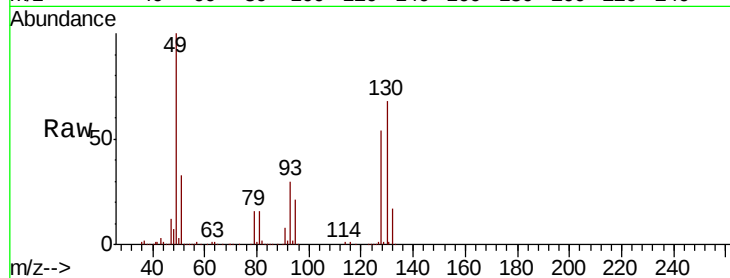
130 67.7 31.2 93.6

Manual Integrations

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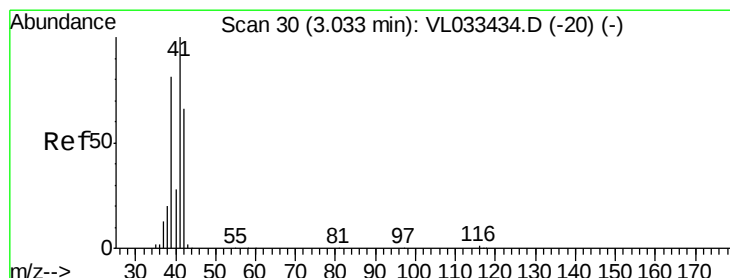
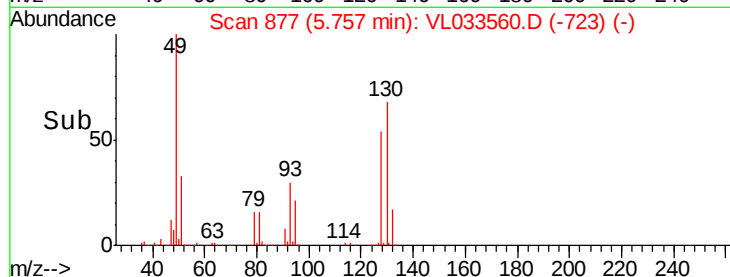
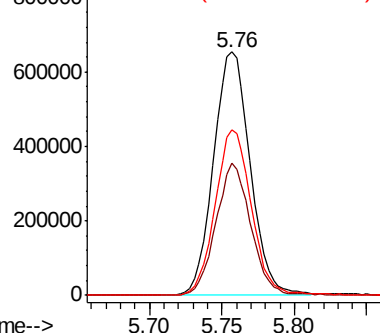
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#9

Propene

Concen: 3.323 ppbv

RT: 3.04 min Scan# 31

Delta R.T. 0.00 min

Lab File: VL033560.D

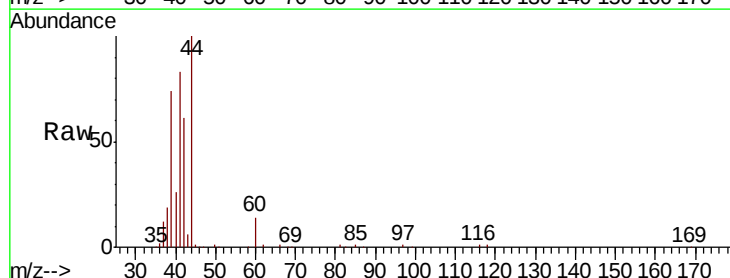
Acq: 5 Apr 2019 10:23

Tgt Ion: 41 Resp: 185165

Ion Ratio Lower Upper

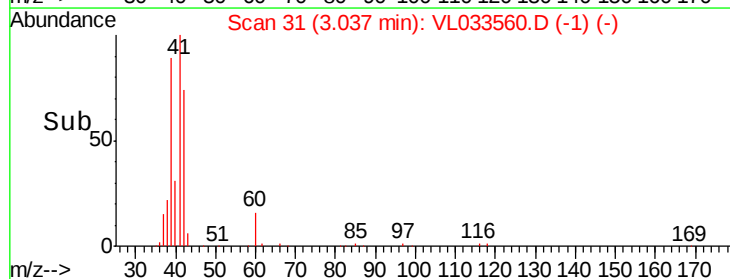
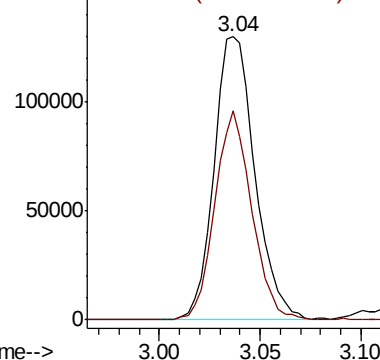
41 100

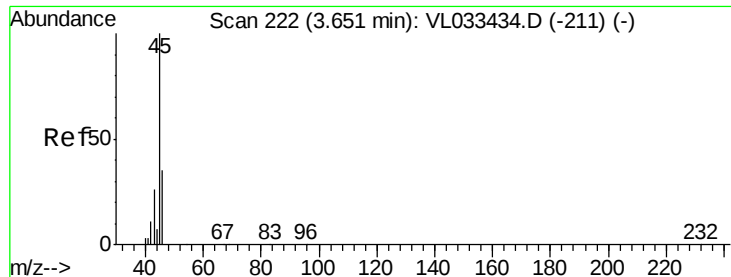
42 66.8 53.9 80.9



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





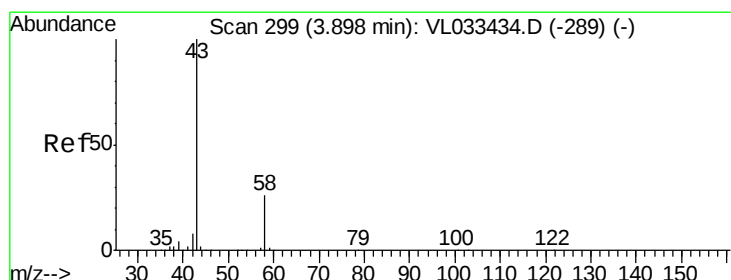
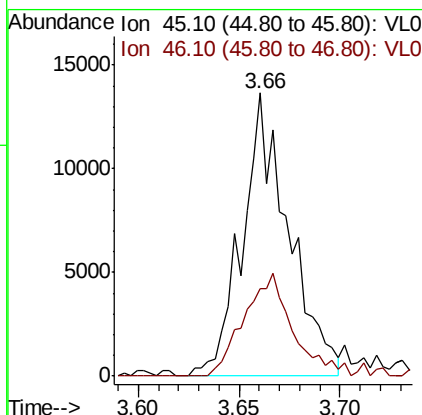
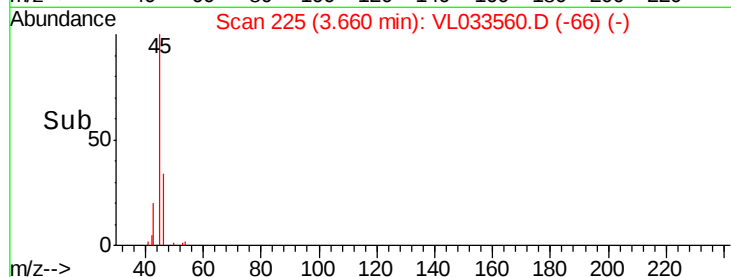
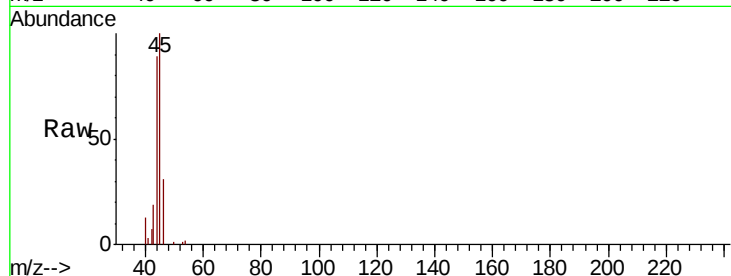
#13
Ethanol
Concen: 1.517 ppbv
RT: 3.66 min Scan# 225
Delta R.T. 0.01 min
Lab File: VL033560.D
Acq: 5 Apr 2019 10:23

Instrument :
MSVOA_L
ClientSampleId :
SV4DL

Tot Ion: 45 Resp: 21870
Ion Ratio Lower Upper
45 100
46 39.0 25.4 101.8

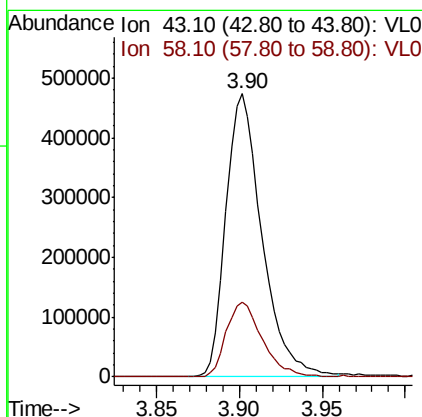
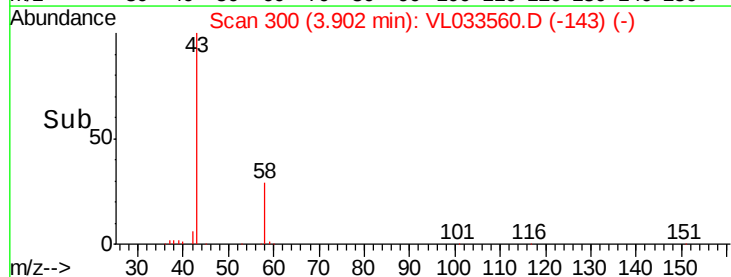
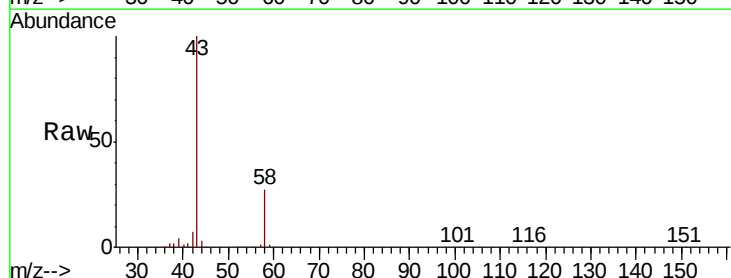
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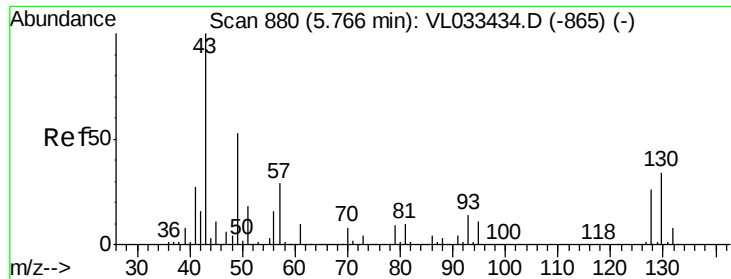
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#15
Acetone
Concen: 5.182 ppbv
RT: 3.90 min Scan# 300
Delta R.T. 0.00 min
Lab File: VL033560.D
Acq: 5 Apr 2019 10:23

Tgt Ion: 43 Resp: 718099
Ion Ratio Lower Upper
43 100
58 27.0 20.5 30.7





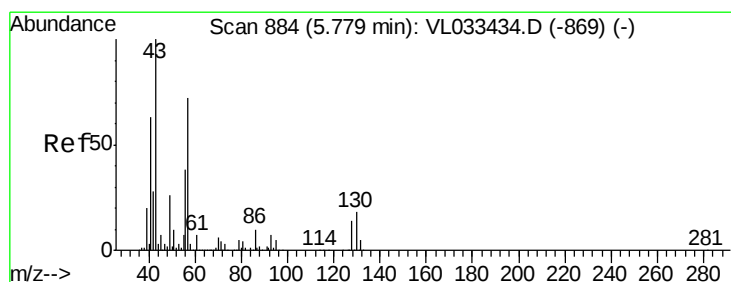
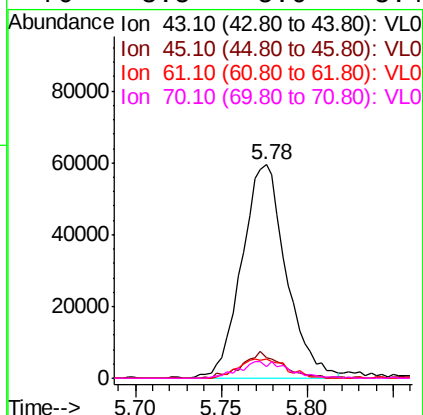
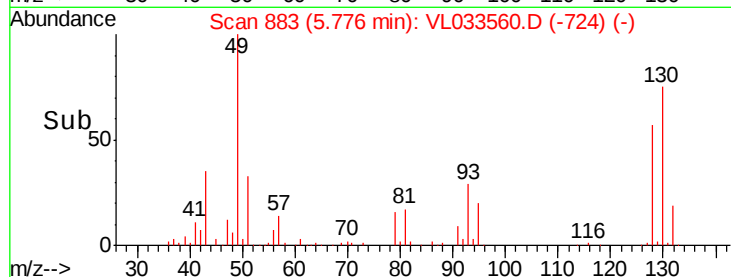
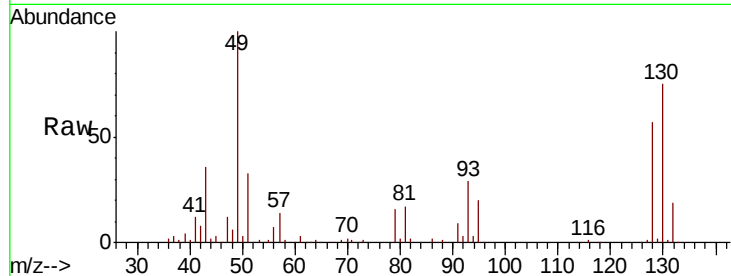
#25
Ethyl Acetate
Concen: 0.414 ppbv
RT: 5.78 min Scan# 883
Delta R.T. 0.01 min
Lab File: VL033560.D
Acq: 5 Apr 2019 10:23

Instrument :
MSVOA_L
ClientSampleId :
SV4DL

Tot Ion	43	Resp	106540
Ion Ratio	Lower	Upper	
43	100		
45	10.8	7.8	11.6
61	9.7	7.3	10.9
70	8.5	5.6	8.4

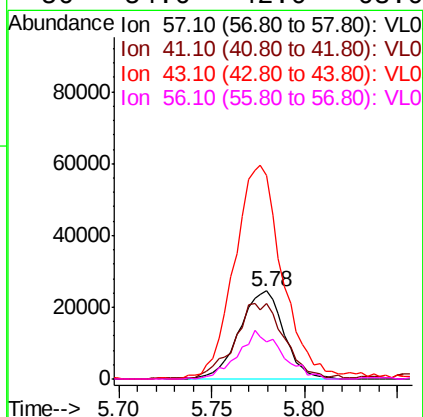
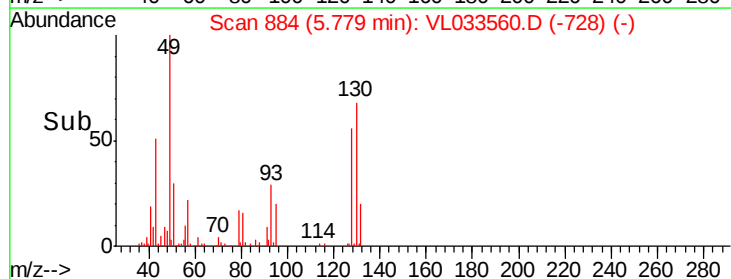
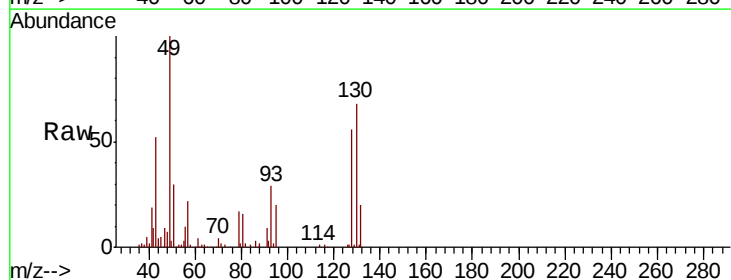
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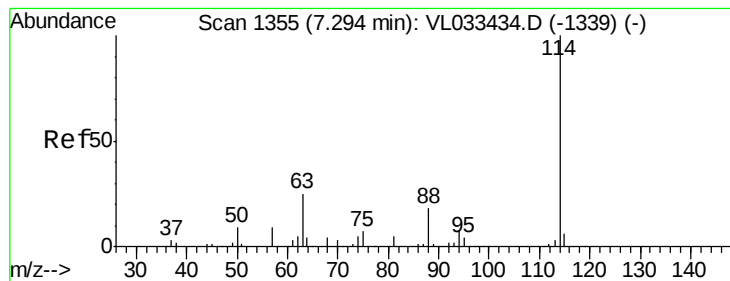
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#26
Hexane
Concen: 0.357 ppbv
RT: 5.78 min Scan# 884
Delta R.T. 0.00 min
Lab File: VL033560.D
Acq: 5 Apr 2019 10:23

Tgt Ion	57	Resp	40761
Ion Ratio	Lower	Upper	
57	100		
41	98.2	70.7	106.1
43	274.7	182.6	274.0
56	54.6	42.0	63.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.29 min Scan# 1353

Delta R.T. -0.01 min

Lab File: VL033560.D

Acq: 5 Apr 2019 10:23

Instrument :

MSVOA_L

ClientSampleId :

SV4DL

Tot Ion:114 Resp: 2986300

Ion Ratio Lower Upper

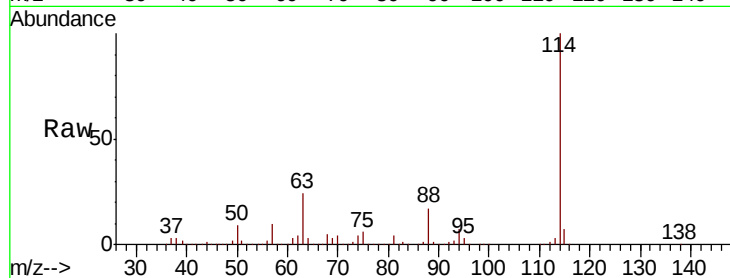
114 100

63 23.9 21.5 32.3

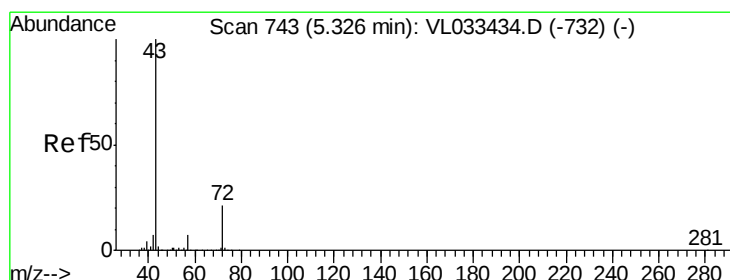
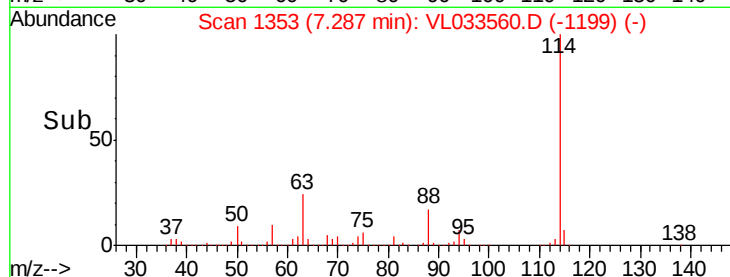
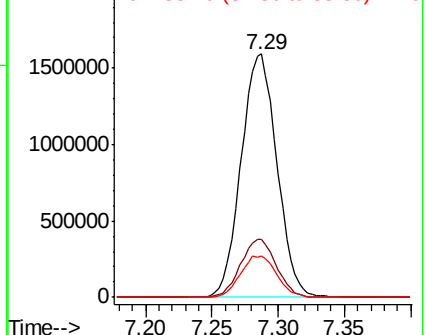
88 17.4 14.5 21.7

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



#34

2-Butanone

Concen: 0.179 ppbv m

RT: 5.34 min Scan# 748

Delta R.T. 0.02 min

Lab File: VL033560.D

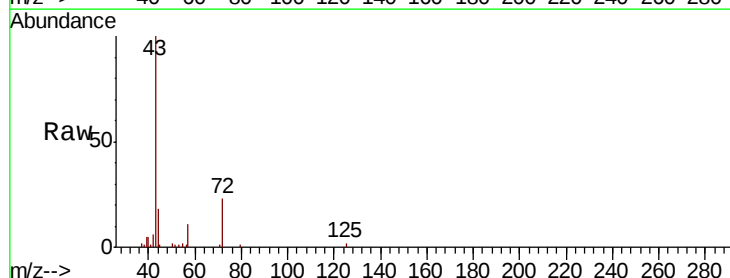
Acq: 5 Apr 2019 10:23

Tgt Ion: 43 Resp: 32063

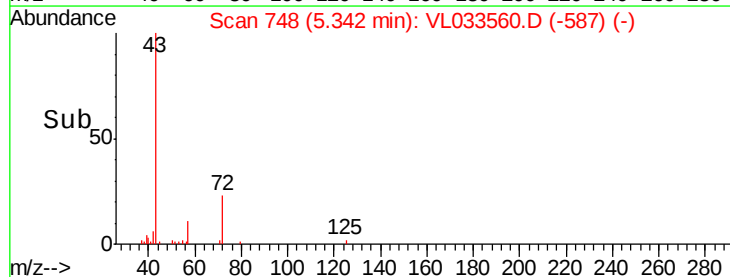
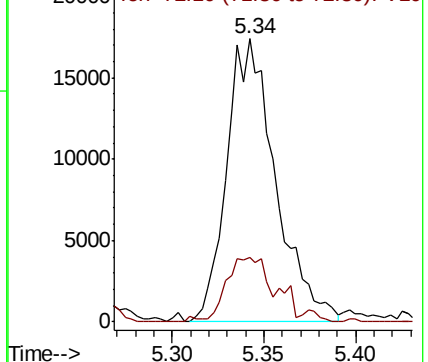
Ion Ratio Lower Upper

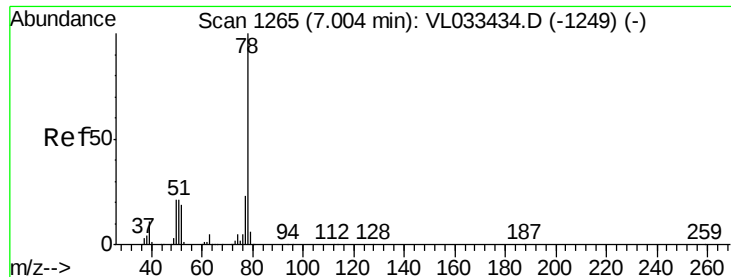
43 100

72 24.4 17.4 26.2



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 72.10 (71.80 to 72.80): VL0





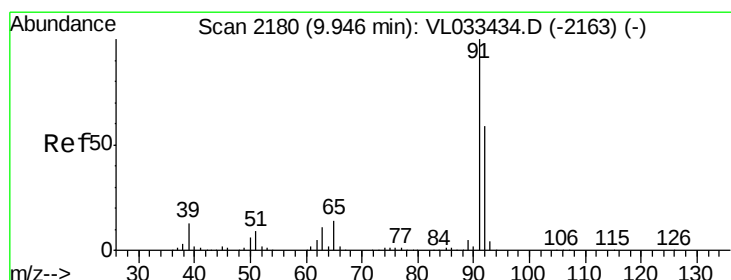
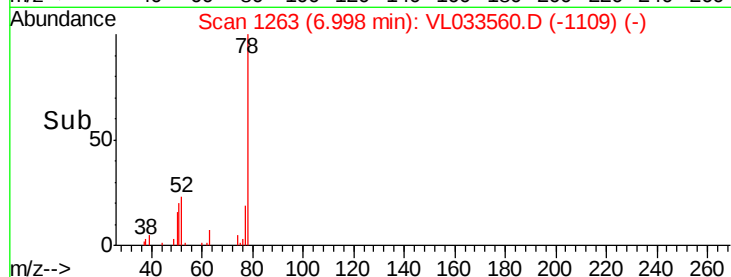
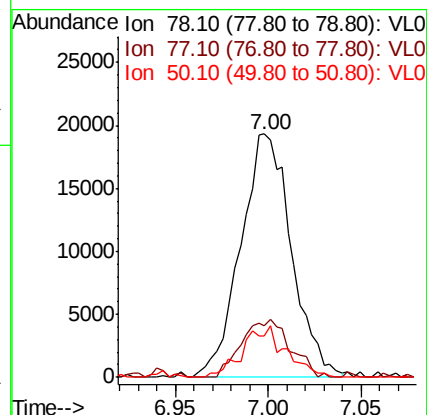
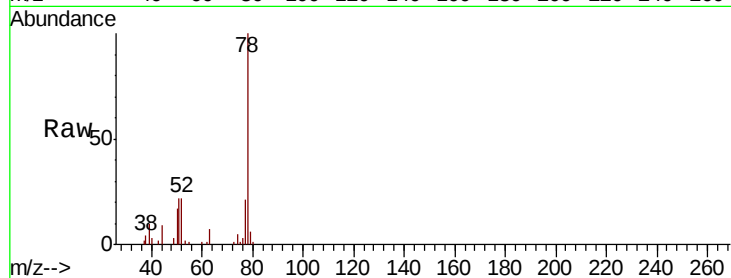
#36
Benzene
Concen: 0.147 ppbv
RT: 7.00 min Scan# 1263
Delta R.T. -0.01 min
Lab File: VL033560.D
Acq: 5 Apr 2019 10:23

Instrument :
MSVOA_L
ClientSampled :
SV4DL

Tot Ion	Ratio	Lower	Upper
78	100		
77	21.3	18.1	27.1
50	17.1	16.7	25.1

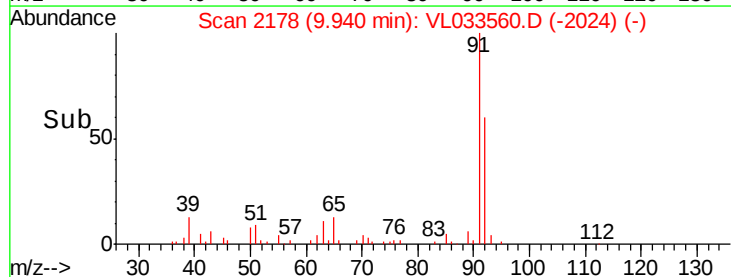
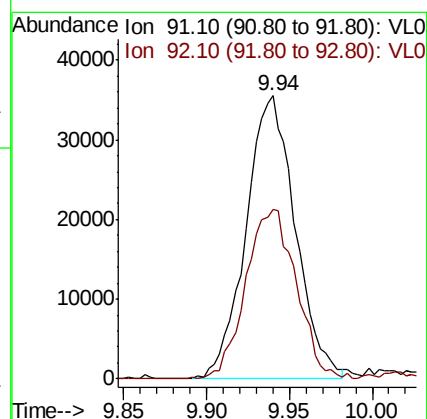
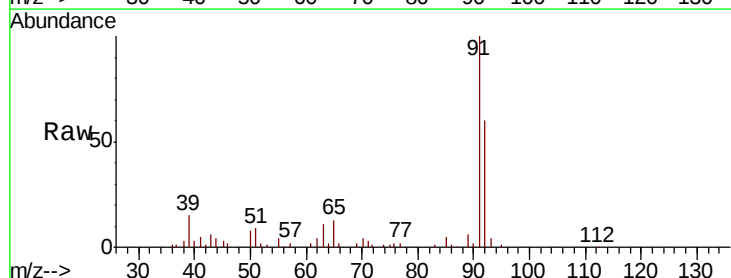
Manual Integrations
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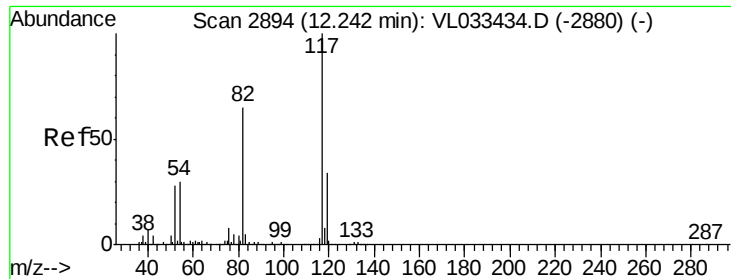
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#53
Toluene
Concen: 0.252 ppbv
RT: 9.94 min Scan# 2178
Delta R.T. -0.01 min
Lab File: VL033560.D
Acq: 5 Apr 2019 10:23

Tgt Ion	Ratio	Lower	Upper
91	100		
92	61.4	47.4	71.0





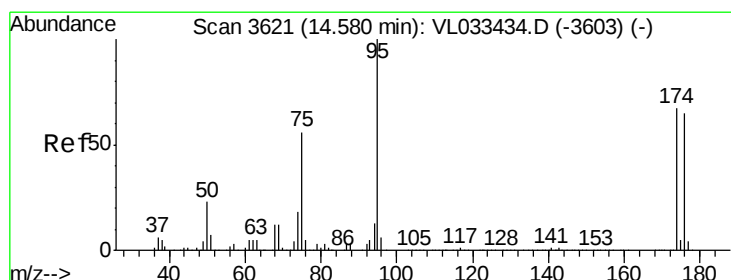
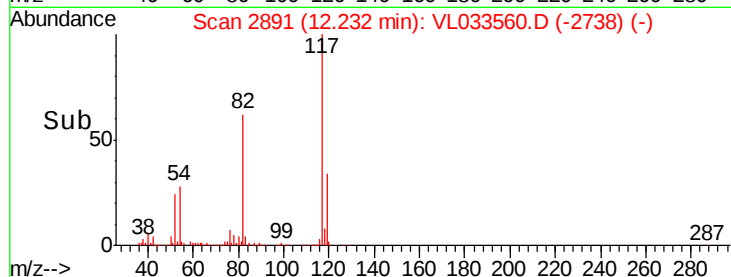
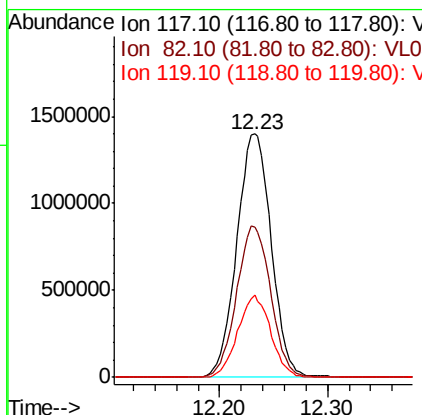
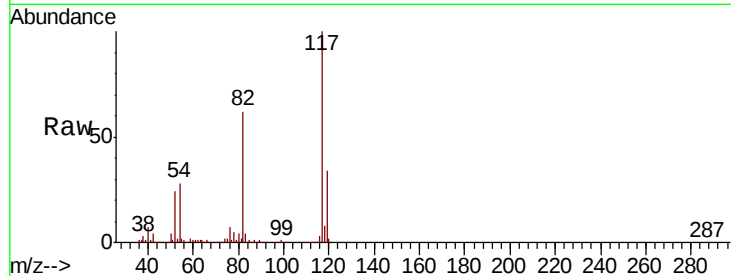
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.23 min Scan# 2891
Delta R.T. -0.01 min
Lab File: VL033560.D
Acq: 5 Apr 2019 10:23

Instrument :
MSVOA_L
ClientSampled :
SV4DL

Tot Ion	Ratio	Lower	Upper
117	100		
82	61.8	51.5	77.3
119	32.4	25.5	38.3

Manual Integrations
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#68
1-Bromo-4-Fluorobenzene
Concen: 9.815 ppbv
RT: 14.57 min Scan# 3617
Delta R.T. -0.01 min
Lab File: VL033560.D
Acq: 5 Apr 2019 10:23

Tgt Ion	Ratio	Lower	Upper
95	100		
174	70.7	52.9	79.3
175	5.3	3.8	5.6

