

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101719\
 Data File : VL034325.D
 Acq On : 17 Oct 2019 20:42
 Operator : SY/AP
 Sample : K5409-01DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

Manual Integrations
 APPROVED

MMDadoda
 10/22/2019 2:55:17 PM

Quant Time: Oct 20 19:11:24 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Thu Oct 18 19:11:24 2019
 QLast Update : Thu Oct 17 05:12:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	952307	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.21	114	2006568	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.15	117	2037183	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.49	95	1680581	9.74	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
4) Chloromethane	3.12	50	9382	0.142	ppbv #	62
9) Propene	2.99	41	170099	3.438	ppbv	94
10) Heptane	8.17	43	17679m	0.139	ppbv	
13) Ethanol	3.60	45	14094m	1.272	ppbv	
15) Acetone	3.84	43	1685344	12.373	ppbv	96
27) Carbon Disulfide	4.56	76	36302	0.357	ppbv #	89
31) cis-1,2-Dichloroethene	5.56	61	90480	0.910	ppbv #	94
34) 2-Butanone	5.27	43	117042	0.714	ppbv	98
36) Benzene	6.92	78	43468m	0.226	ppbv	
38) Trichloroethene	7.88	130	66673	0.863	ppbv #	81
52) Tetrachloroethene	11.29	164	4389537	58.167	ppbv	96
53) Toluene	9.86	91	151028	0.711	ppbv	96
59) m/p-Xylene	13.03	91	139074m	0.564	ppbv	
60) o-Xylene	13.76	91	53939m	0.220	ppbv	
74) 1,2,4-Trimethylbenzene	16.83	105	38420m	0.135	ppbv	

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

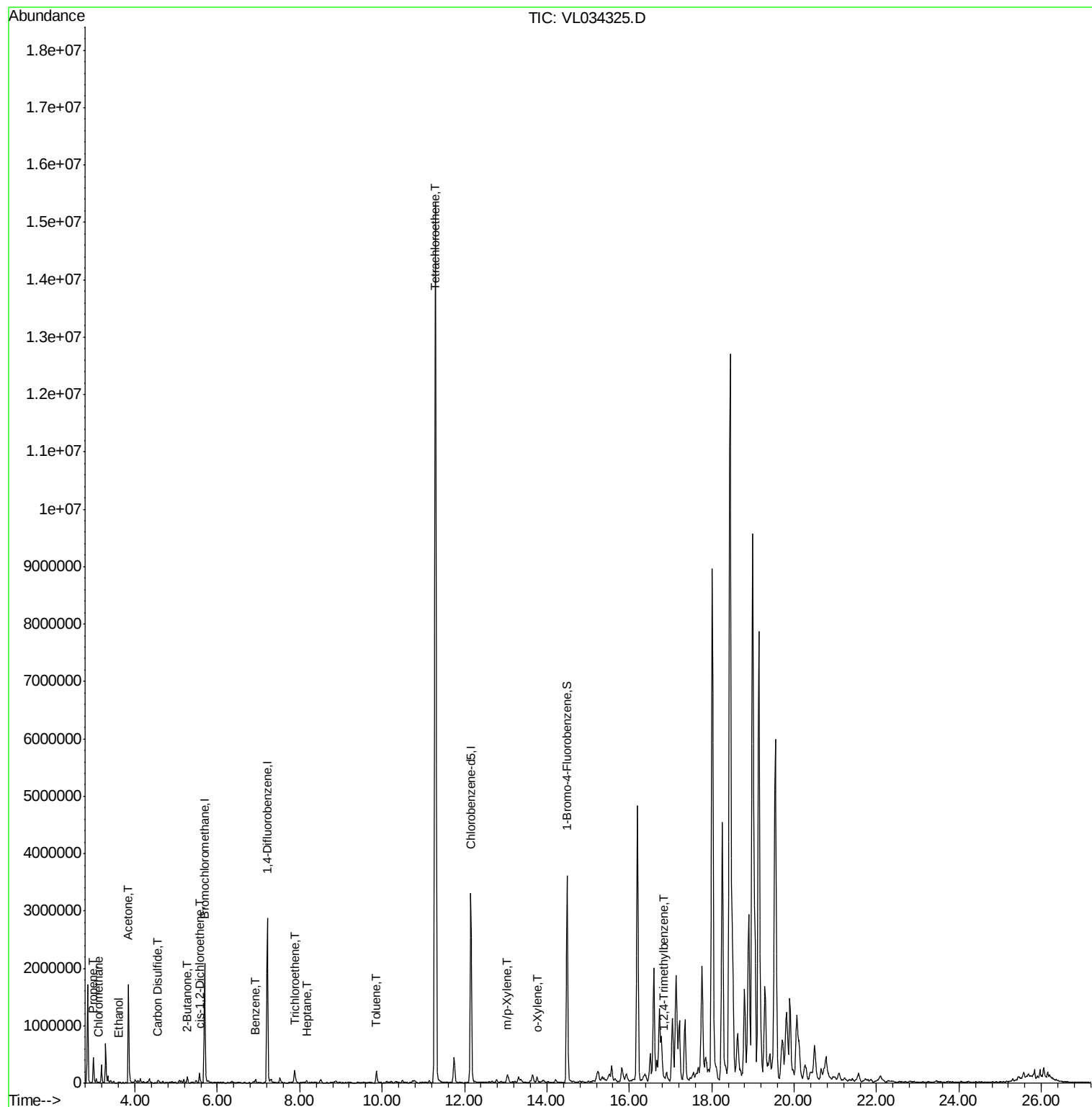
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL101719\
Data File : VL034325.D
Acq On : 17 Oct 2019 20:42
Operator : SY/AP
Sample : K5409-01DL 10X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

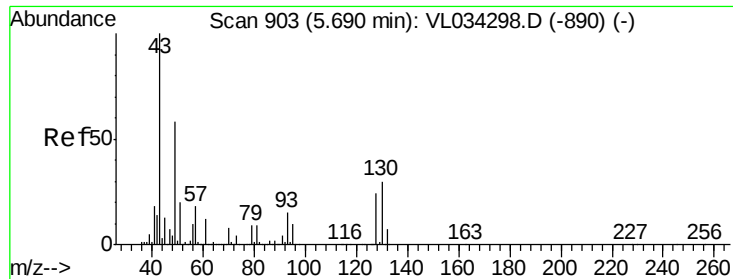
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Manual Integrations
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10/22/2019 2:55:17 PM

Quant Time: Oct 20 19:11:24 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL101619AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct
QLast Update : Thu Oct 17 05:12:37 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 902

Delta R.T. -0.00 min

Lab File: VL034325.D

Acq: 17 Oct 2019 20:42

Instrument :

MSVOA_L

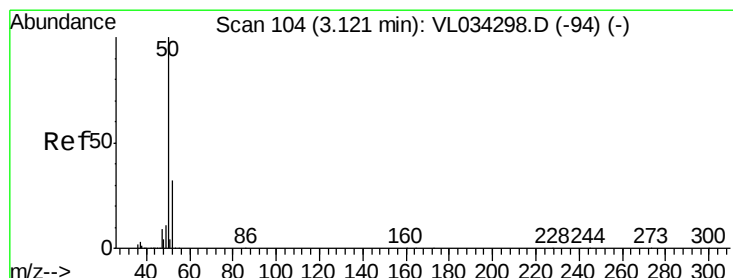
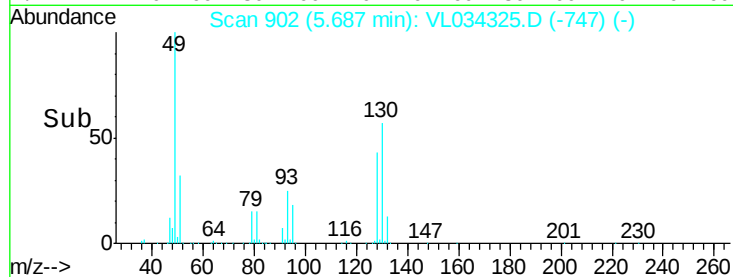
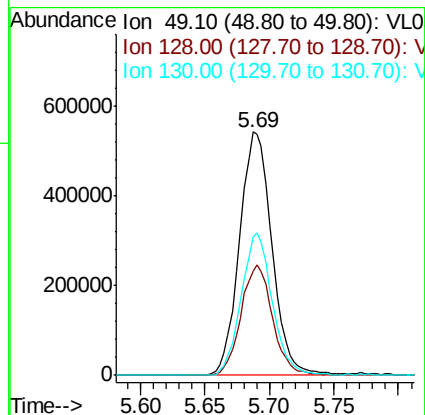
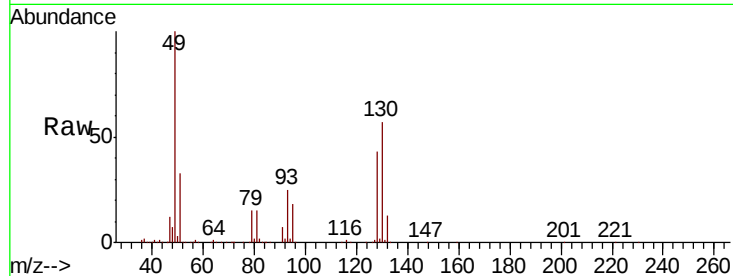
ClientSampled :

SV1DL

Tot Ion:	49	Resp:	952307
Ion Ratio	Lower	Upper	
49	100		
128	44.2	20.6	61.8
130	56.7	26.2	78.5

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#4

Chloromethane

Concen: 0.142 ppbv

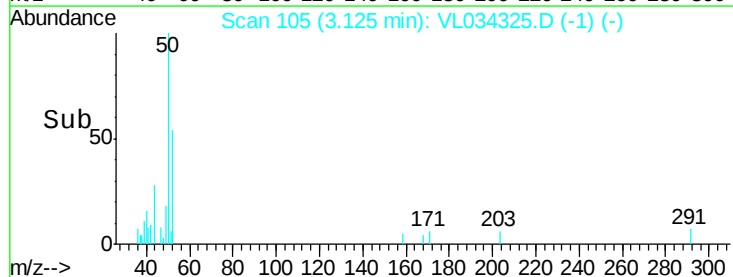
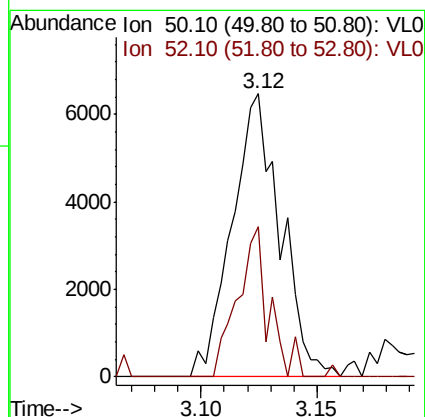
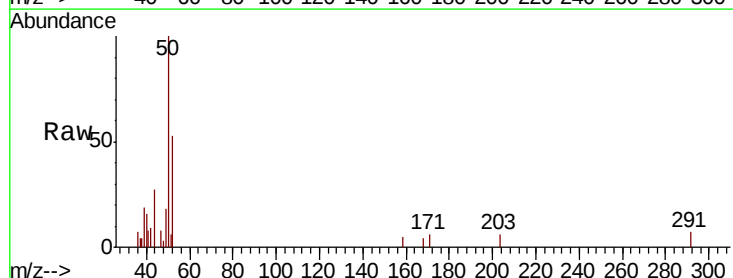
RT: 3.12 min Scan# 105

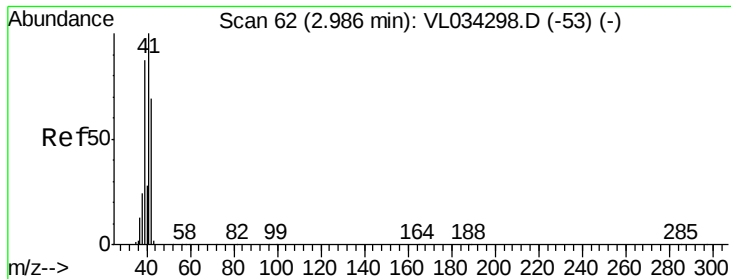
Delta R.T. 0.00 min

Lab File: VL034325.D

Acq: 17 Oct 2019 20:42

Tgt Ion:	50	Resp:	9382
Ion Ratio	Lower	Upper	
50	100		
52	52.9	25.4	38.2#





#9

Propene

Concen: 3.438 ppbv

RT: 2.99 min Scan# 63

Delta R.T. 0.00 min

Lab File: VL034325.D

Acq: 17 Oct 2019 20:42

Instrument :

MSVOA_L

ClientSampled :

SV1DL

Tot Ion: 41 Resp: 170099

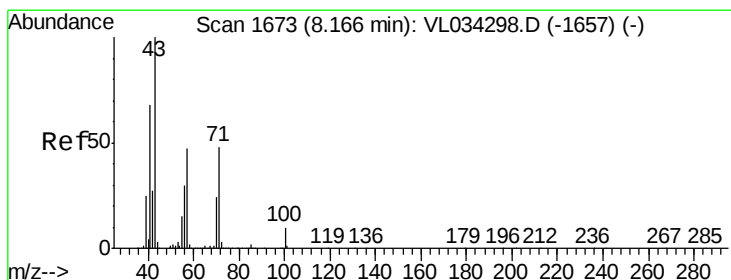
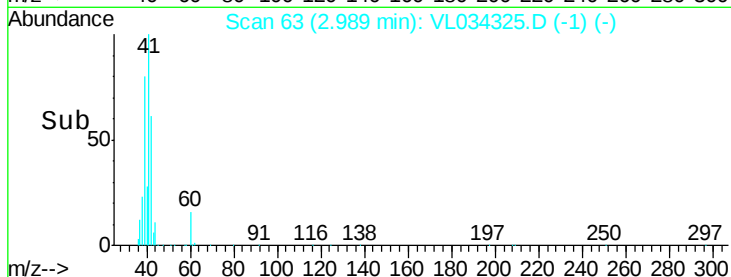
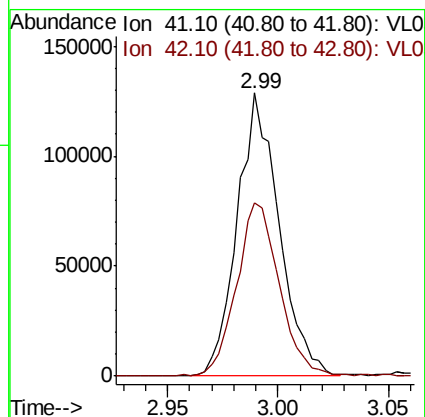
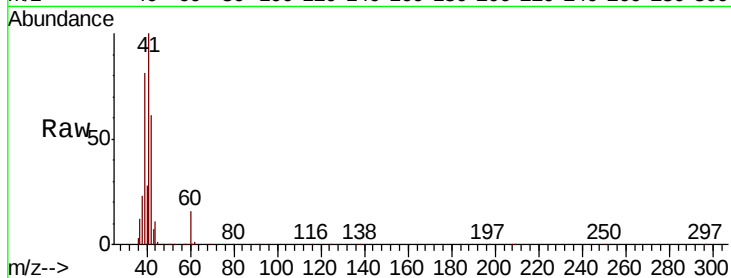
Ion Ratio Lower Upper

41 100

42 62.9 53.9 80.9

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#10

Heptane

Concen: 0.139 ppbv m

RT: 8.17 min Scan# 1674

Delta R.T. 0.00 min

Lab File: VL034325.D

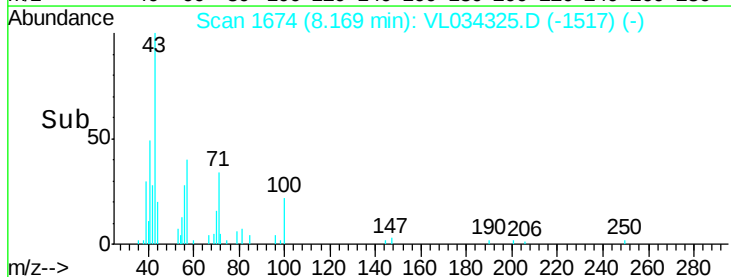
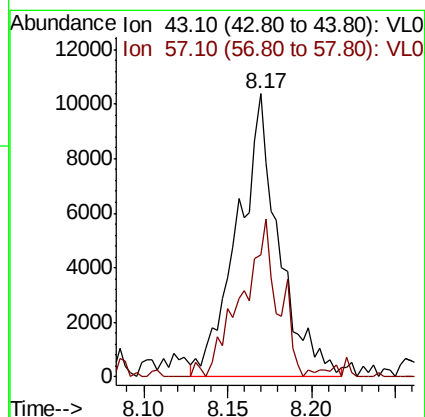
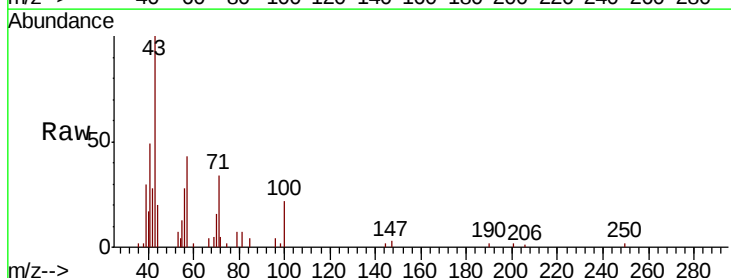
Acq: 17 Oct 2019 20:42

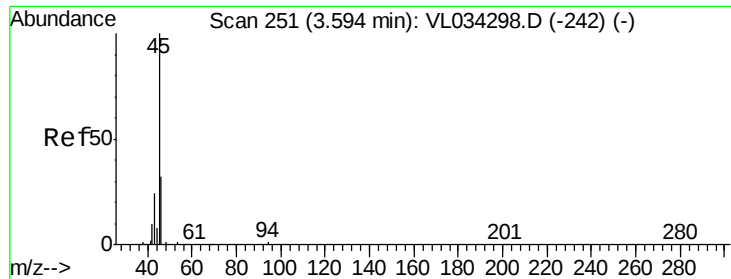
Tgt Ion: 43 Resp: 17679

Ion Ratio Lower Upper

43 100

57 0.0 39.5 59.3#





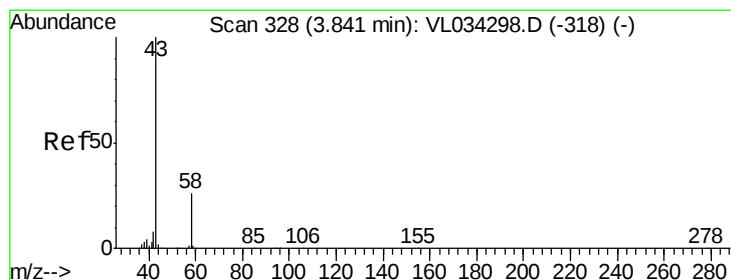
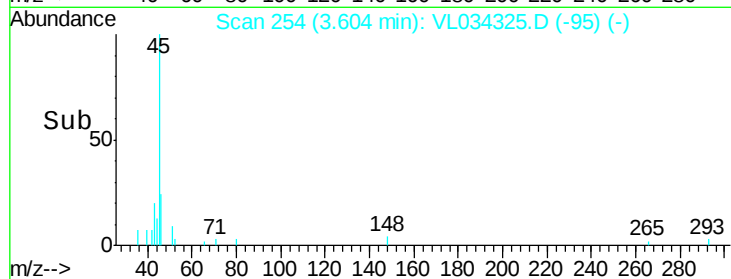
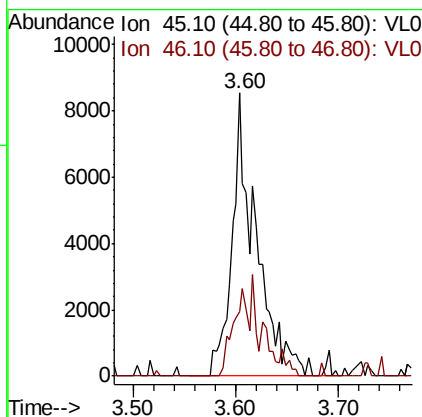
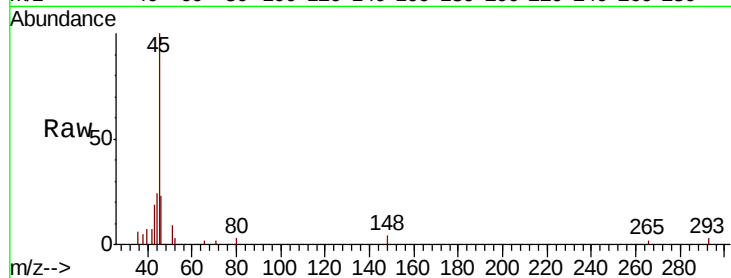
#13
Ethanol
Concen: 1.272 ppbv m
RT: 3.60 min Scan# 254
Delta R.T. 0.01 min
Lab File: VL034325.D
Acq: 17 Oct 2019 20:42

Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Tot Ion	45	46	Ratio	Lower	Upper
14094	100	0.0		15.8	63.2

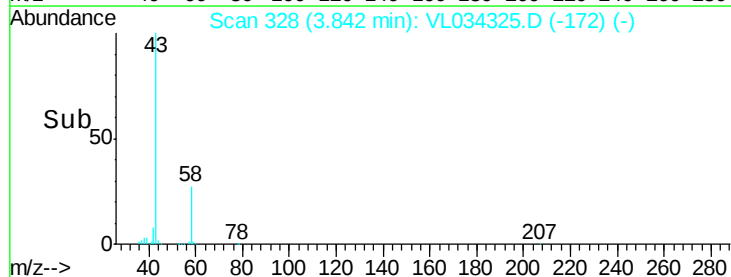
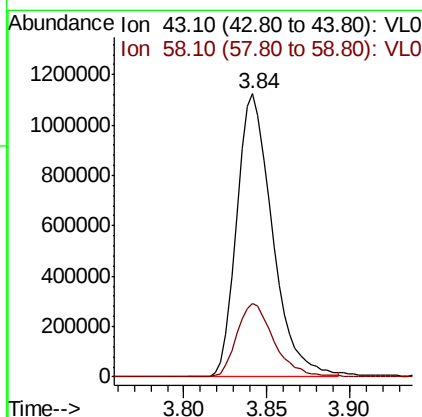
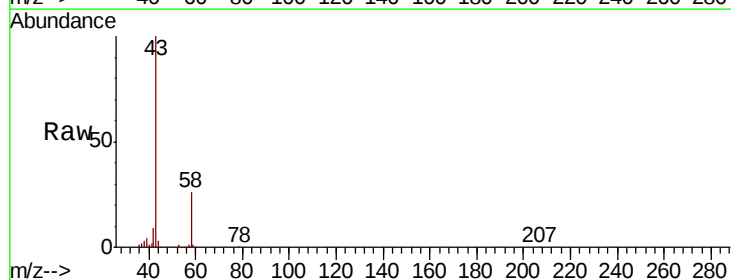
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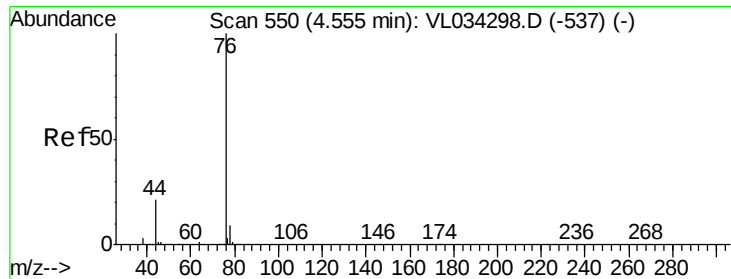
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#15
Acetone
Concen: 12.373 ppbv
RT: 3.84 min Scan# 328
Delta R.T. 0.00 min
Lab File: VL034325.D
Acq: 17 Oct 2019 20:42

Tgt Ion	43	58	Ratio	Lower	Upper
1685344	100	27.4		20.4	30.6





#27

Carbon Disulfide

Concen: 0.357 ppbv

RT: 4.56 min Scan# 551

Delta R.T. 0.00 min

Lab File: VL034325.D

Acq: 17 Oct 2019 20:42

Instrument :

MSVOA_L

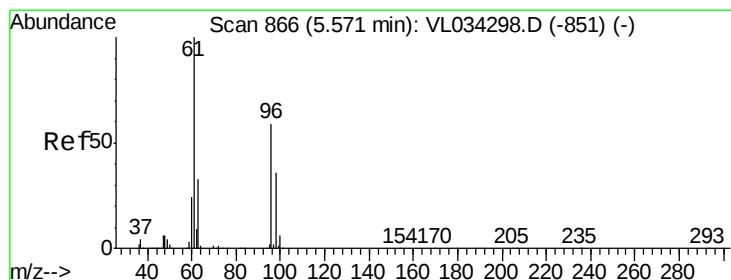
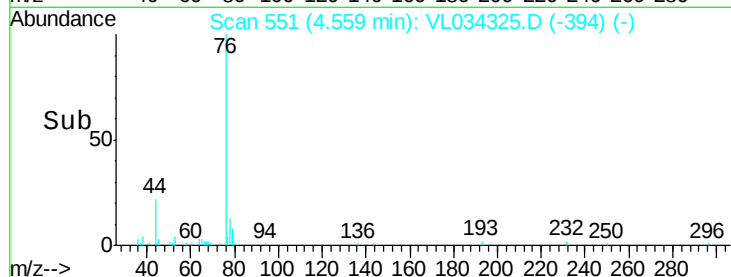
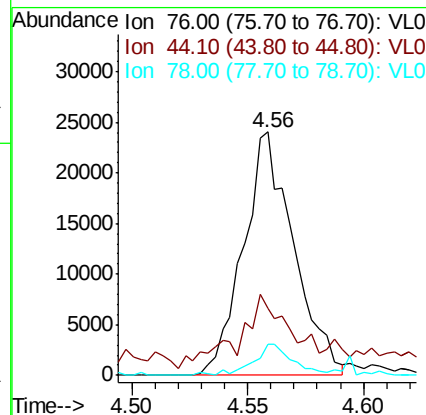
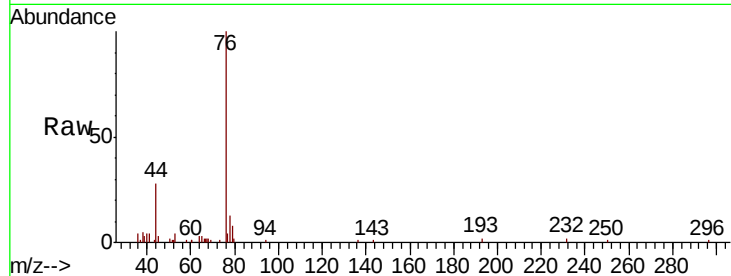
ClientSampleId :

SV1DL

Tot Ion:	76	Resp:	36302
Ion	Ratio	Lower	Upper
76	100		
44	28.6	17.3	25.9#
78	10.3	7.8	11.6

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#31

cis-1,2-Dichloroethene

Concen: 0.910 ppbv

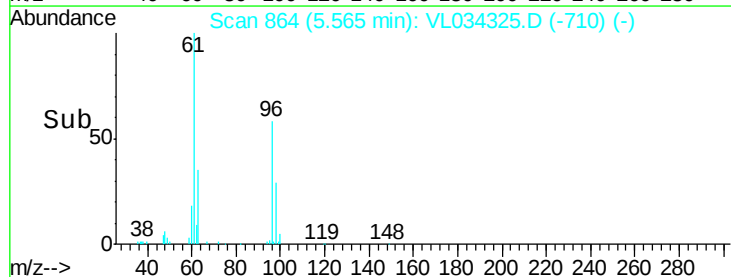
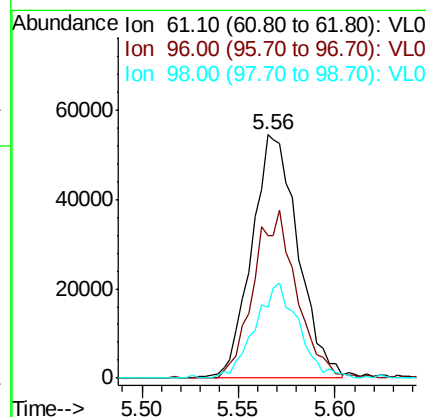
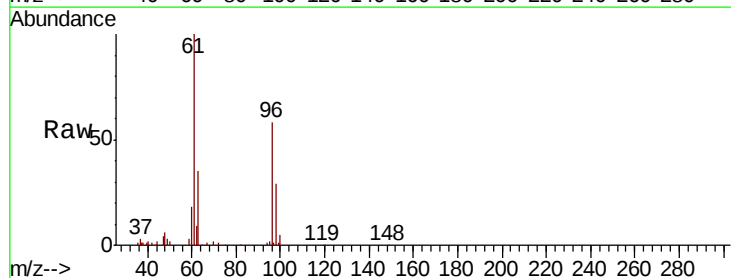
RT: 5.56 min Scan# 864

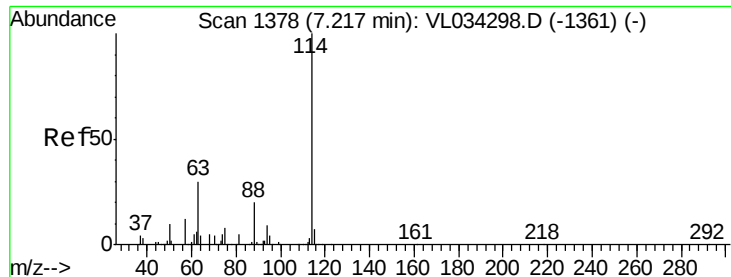
Delta R.T. -0.01 min

Lab File: VL034325.D

Acq: 17 Oct 2019 20:42

Tgt Ion:	61	Resp:	90480
Ion	Ratio	Lower	Upper
61	100		
96	58.4	47.5	71.3
98	27.8	28.8	43.2#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.21 min Scan# 1376

Delta R.T. -0.01 min

Lab File: VL034325.D

Acq: 17 Oct 2019 20:42

Instrument :

MSVOA_L

ClientSampleId :

SV1DL

Tot Ion:114 Resp: 2006568

Ion Ratio Lower Upper

114 100

63 27.8 25.2 37.8

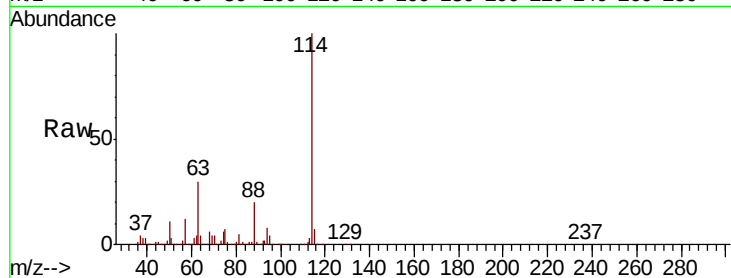
88 19.9 16.0 24.0

Manual Integrations

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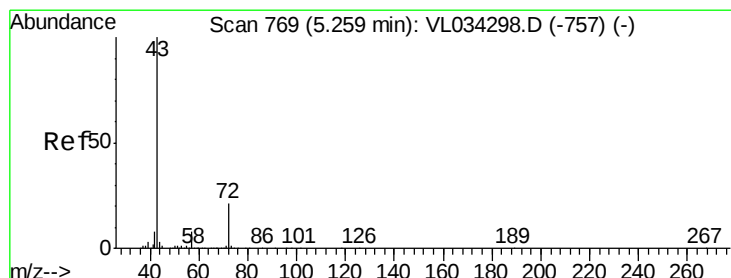
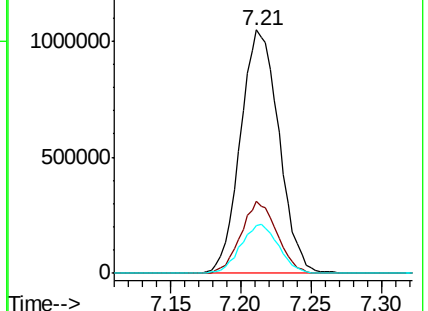
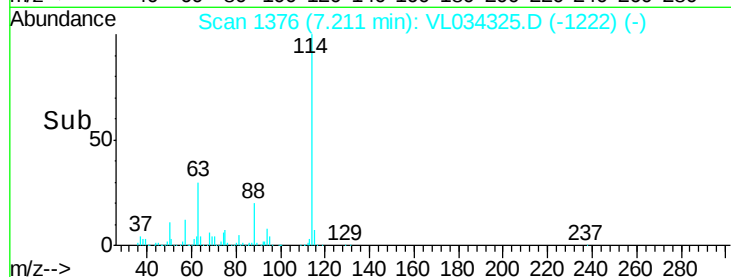
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Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 0.714 ppbv

RT: 5.27 min Scan# 772

Delta R.T. 0.01 min

Lab File: VL034325.D

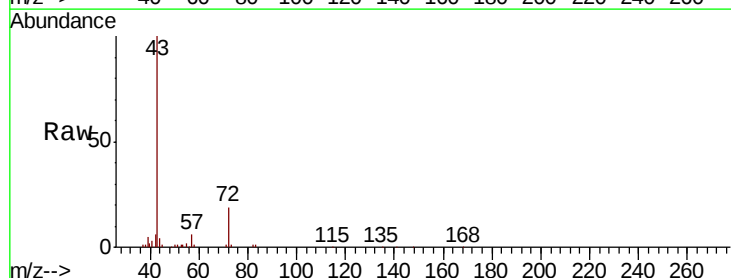
Acq: 17 Oct 2019 20:42

Tgt Ion: 43 Resp: 117042

Ion Ratio Lower Upper

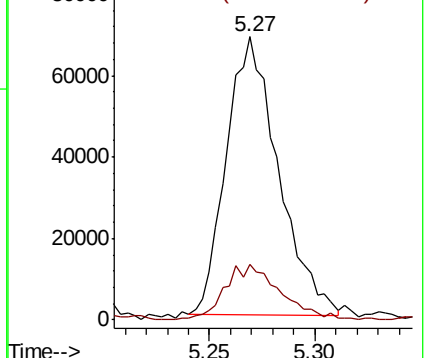
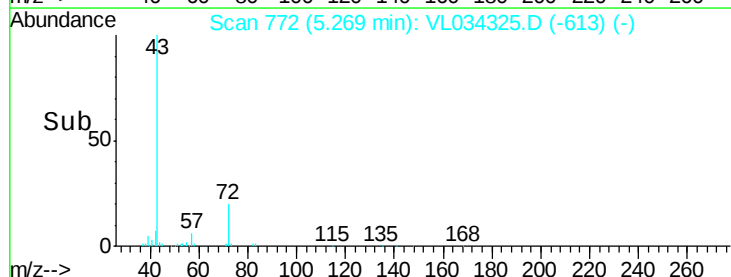
43 100

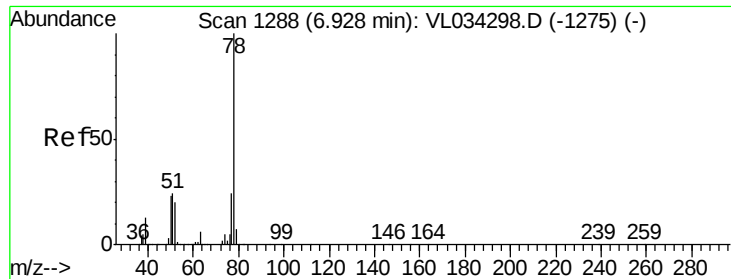
72 21.3 16.3 24.5



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#36

Benzene

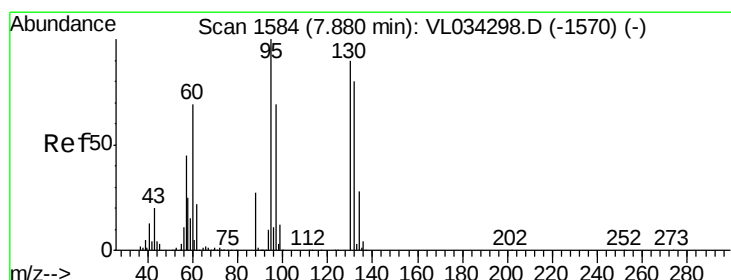
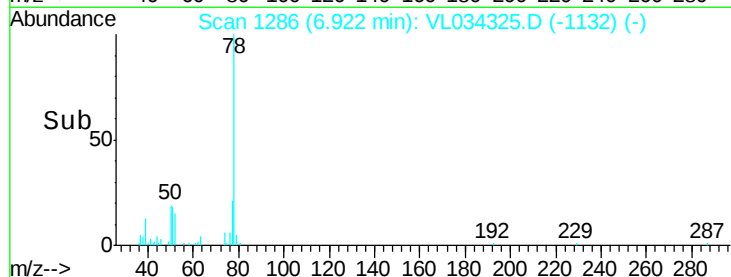
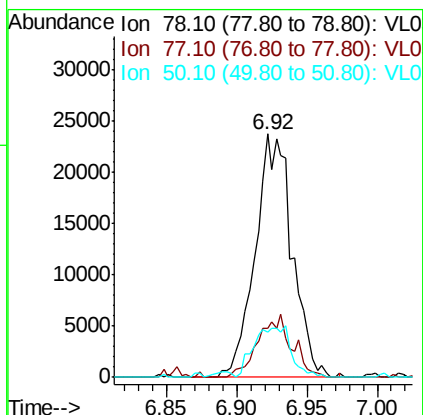
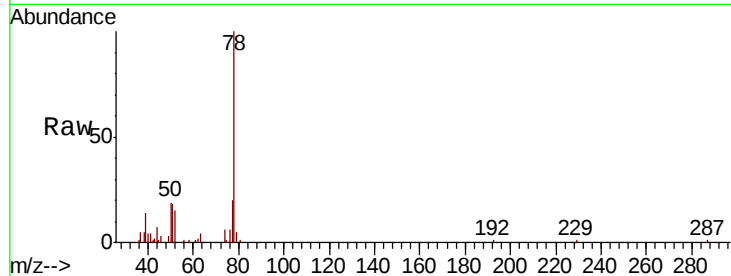
Concen: 0.226 ppbv m
RT: 6.92 min Scan# 1286
Delta R.T. -0.01 min
Lab File: VL034325.D
Acq: 17 Oct 2019 20:42

Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Tot Ion	Ratio	Lower	Upper
78	100		
77	20.4	19.0	28.4
50	18.7	18.6	27.8

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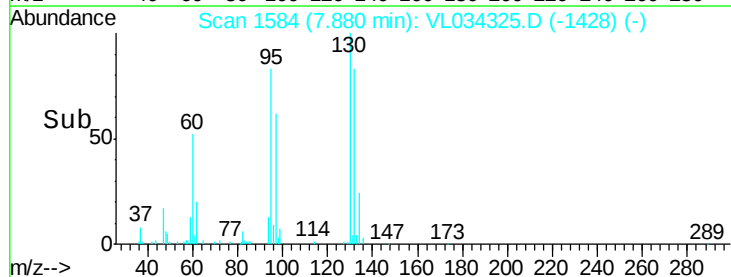
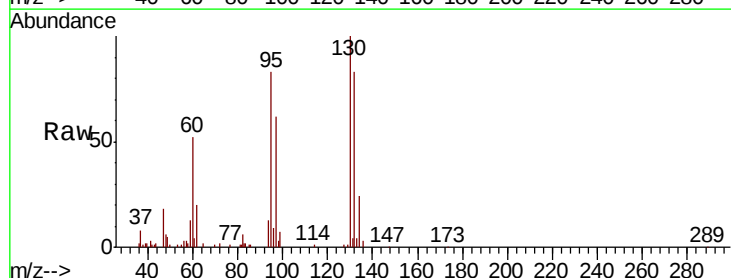
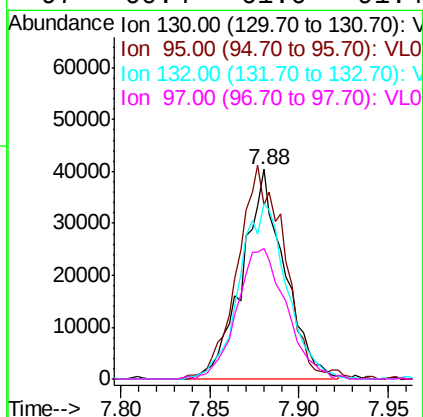


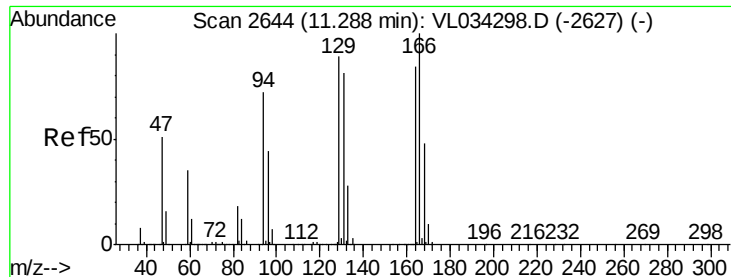
#38

Trichloroethene

Concen: 0.863 ppbv
RT: 7.88 min Scan# 1584
Delta R.T. 0.00 min
Lab File: VL034325.D
Acq: 17 Oct 2019 20:42

Tgt Ion	Ratio	Lower	Upper
130	100		
95	80.8	88.6	132.8#
132	82.4	71.2	106.8
97	60.4	61.0	91.4#





#52

Tetrachloroethene

Concen: 58.167 ppbv

RT: 11.29 min Scan# 2646

Delta R.T. 0.01 min

Lab File: VL034325.D

Acq: 17 Oct 2019 20:42

Instrument :

MSVOA_L

ClientSampleId :

SV1DL

Tot Ion:164 Resp: 4389537

Ion Ratio Lower Upper

164 100

166 120.4 95.3 142.9

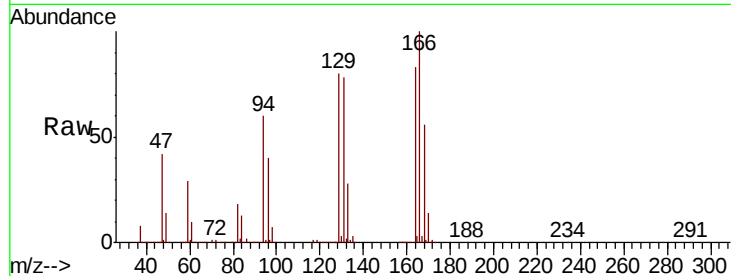
129 96.1 84.5 126.7

131 93.4 77.3 115.9

Manual Integrations
APPROVED

MMDadoda

10/22/2019 2:55:17 PM

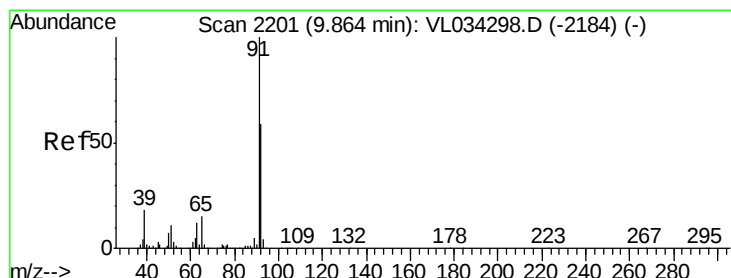
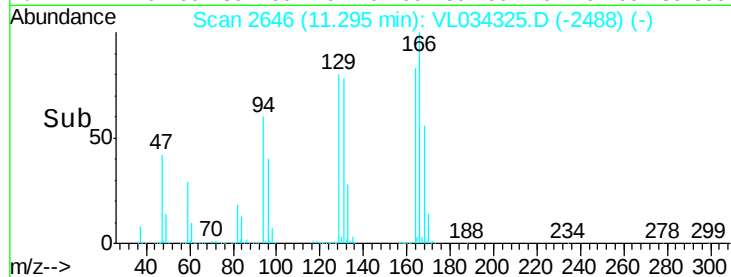
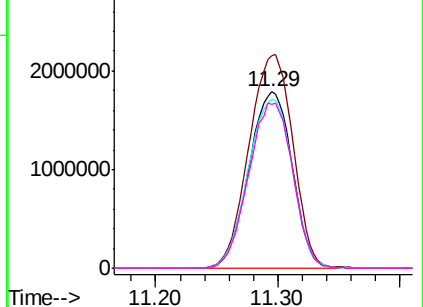


Abundance Ion 163.90 (163.60 to 164.60): V

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



#53

Toluene

Concen: 0.711 ppbv

RT: 9.86 min Scan# 2201

Delta R.T. 0.00 min

Lab File: VL034325.D

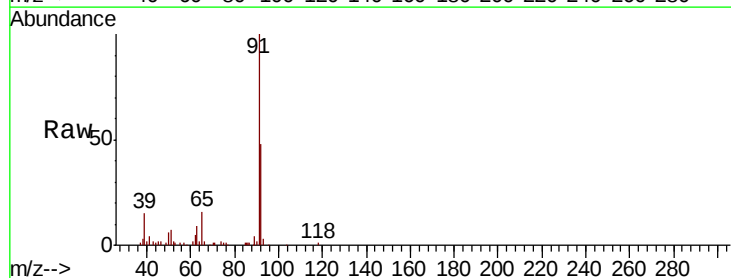
Acq: 17 Oct 2019 20:42

Tgt Ion: 91 Resp: 151028

Ion Ratio Lower Upper

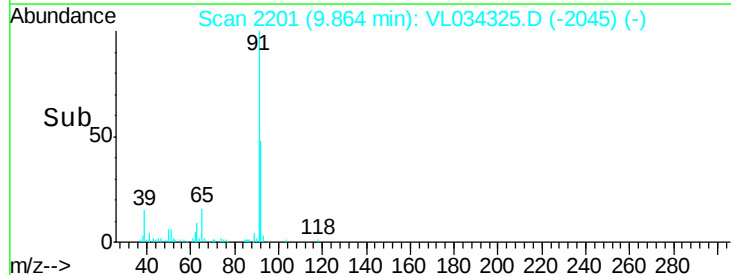
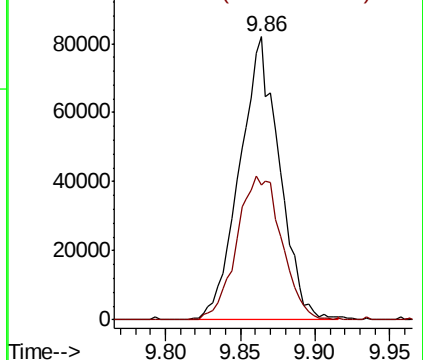
91 100

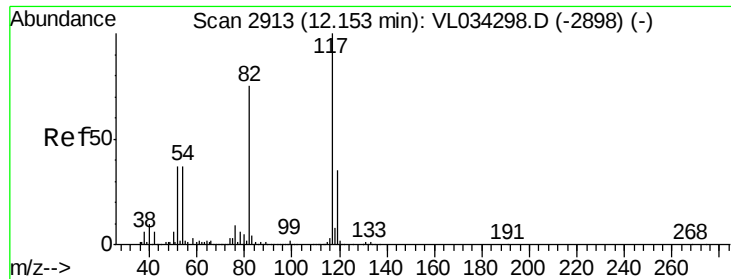
92 57.5 48.4 72.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





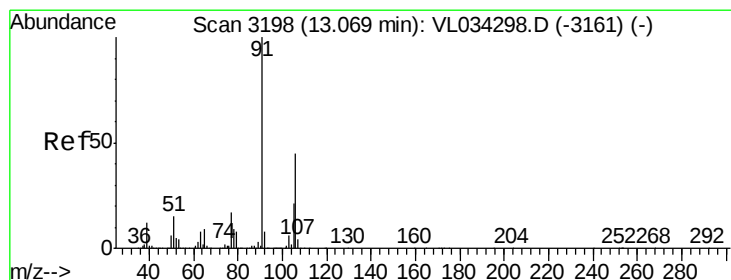
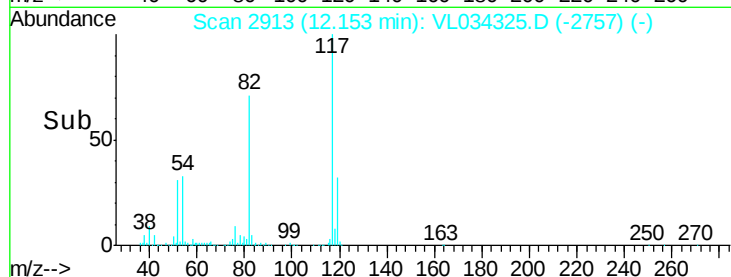
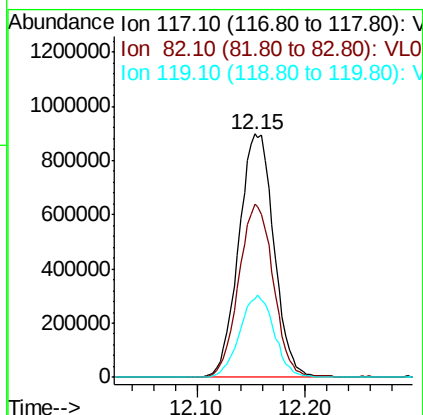
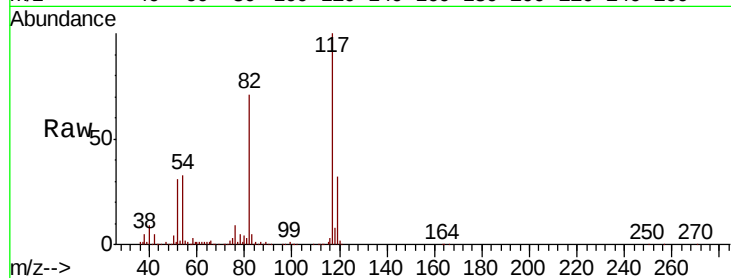
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.15 min Scan# 2913
Delta R.T. 0.00 min
Lab File: VL034325.D
Acq: 17 Oct 2019 20:42

Instrument :
MSVOA_L
ClientSampled :
SV1DL

Tot Ion	Ratio	Lower	Upper
117	100		
82	70.3	55.5	83.3
119	33.2	26.5	39.7

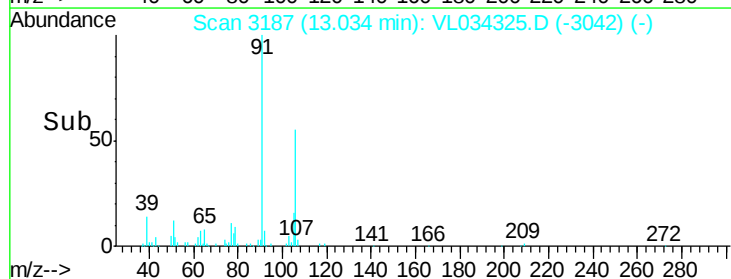
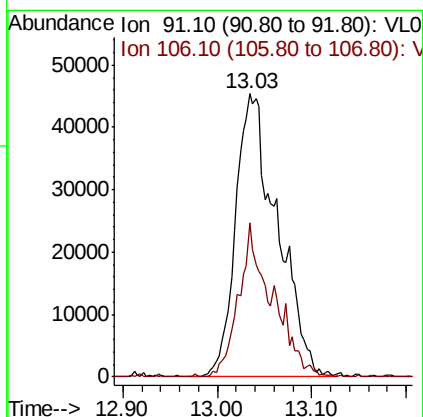
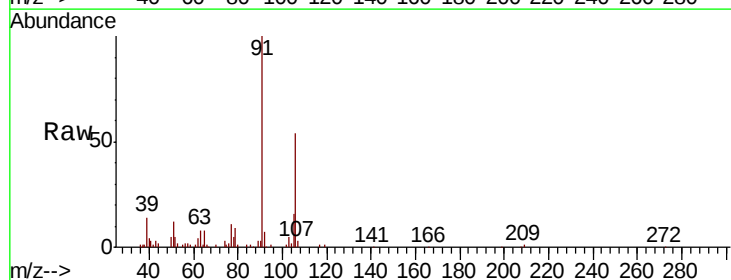
Manual Integrations
APPROVED

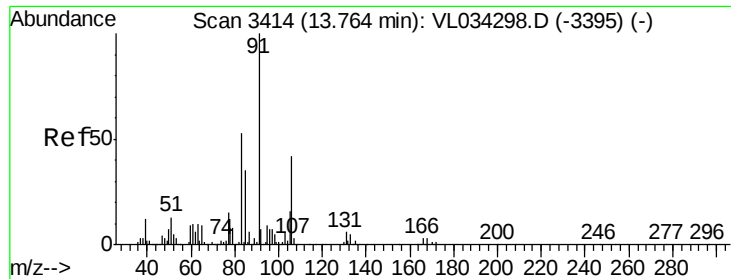
MMDadoda
10/22/2019 2:55:17 PM



#59
m/p-Xylene
Concen: 0.564 ppbv m
RT: 13.03 min Scan# 3187
Delta R.T. -0.04 min
Lab File: VL034325.D
Acq: 17 Oct 2019 20:42

Tgt Ion	Ratio	Lower	Upper
91	100		
106	0.0	35.4	53.2





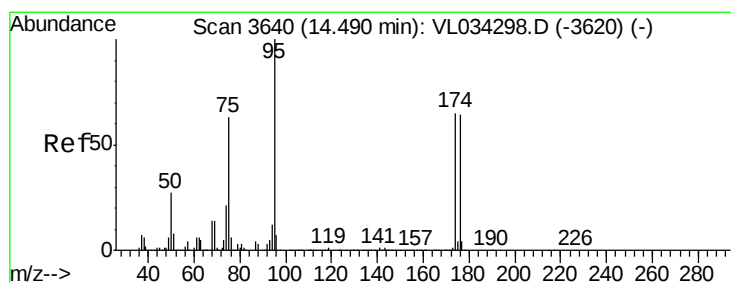
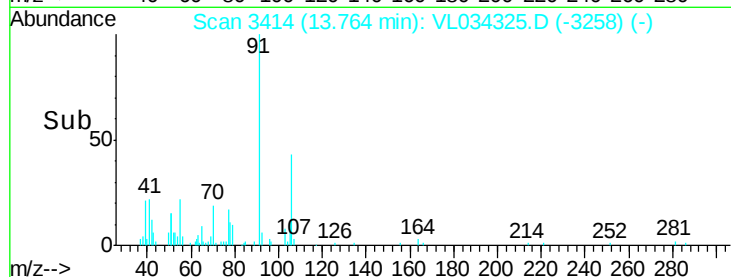
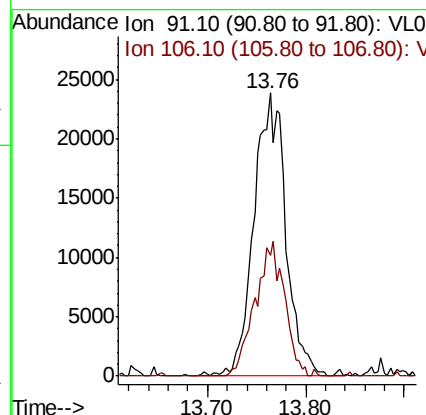
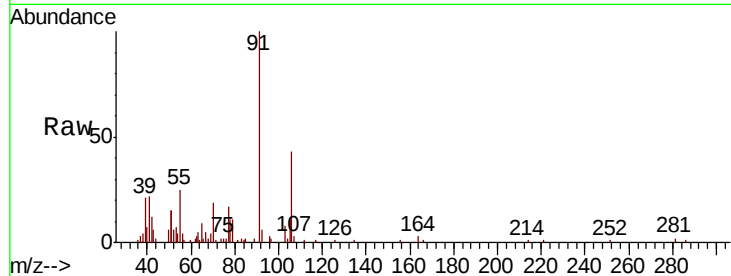
#60
o-Xylene
Concen: 0.220 ppbv m
RT: 13.76 min Scan# 3414
Delta R.T. 0.00 min
Lab File: VL034325.D
Acq: 17 Oct 2019 20:42

Instrument :
MSVOA_L
ClientSampleID :
SV1DL

Tot Ion: 91 Resp: 53939
Ion Ratio Lower Upper
91 100
106 0.0 21.6 64.6#

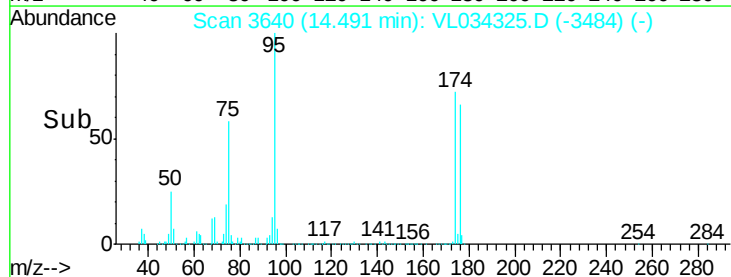
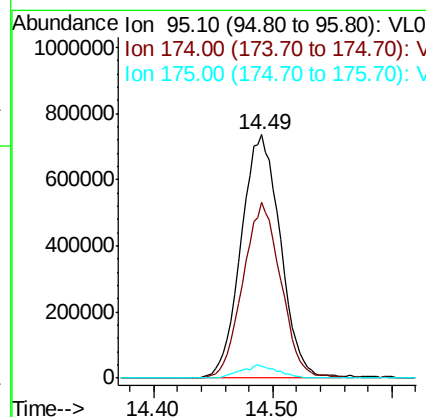
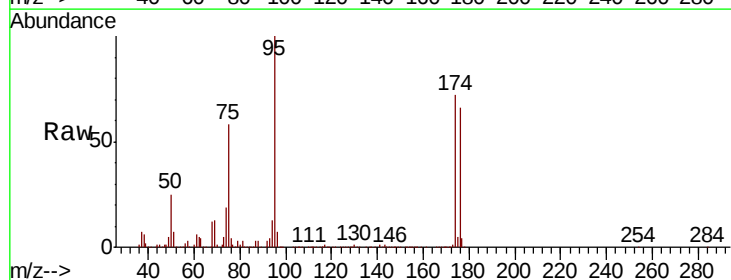
Manual Integrations
APPROVED

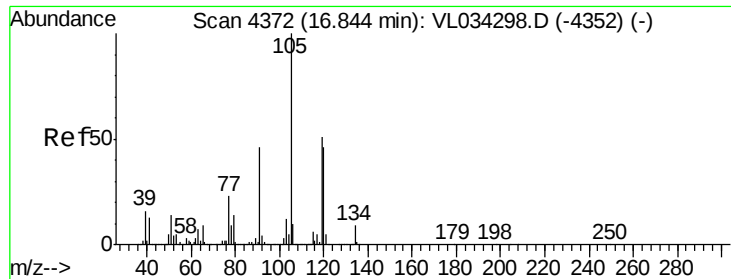
MMDadoda
10/22/2019 2:55:17 PM



#68
1-Bromo-4-Fluorobenzene
Concen: 9.740 ppbv
RT: 14.49 min Scan# 3640
Delta R.T. 0.00 min
Lab File: VL034325.D
Acq: 17 Oct 2019 20:42

Tgt Ion: 95 Resp: 1680581
Ion Ratio Lower Upper
95 100
174 70.0 52.6 78.8
175 5.0 3.8 5.6





#74
 1,2,4-Trimethylbenzene
 Concen: 0.135 ppbv m
 RT: 16.83 min Scan# 4369
 Delta R.T. -0.01 min
 Lab File: VL034325.D
 Acq: 17 Oct 2019 20:42

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

Tot Ion:	105	Resp:	38420
Ion Ratio	Lower	Upper	
105	100		
120	48.2	37.0	55.6
91	8.7	38.2	57.2#
77	14.3	19.0	28.4#

Manual Integrations
 APPROVED

MMDadoda
 10/22/2019 2:55:17 PM

