

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL112018\
 Data File : VL032794.D
 Acq On : 21 Nov 2018 1:17
 Operator : SY/AP
 Sample : J5998-02
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AA-ROOF

Manual Integrations
 APPROVED

MMDadoda
 11/26/2018 9:18:53 AM

Quant Time: Nov 21 06:09:58 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 14 07:00:23 2018
 QLast Update : Wed Nov 14 07:00:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1268357	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3268174	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	2959576	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.59	95	2261188	10.21	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	39543	0.217	ppbv	98
4) Chloromethane	3.18	50	28230	0.506	ppbv #	87
9) Propene	3.06	41	83866	2.084	ppbv #	68
11) Trichlorofluoromethane	4.01	101	375255	2.184	ppbv	95
13) Ethanol	3.66	45	646799	49.072	ppbv	99
15) Acetone	3.91	43	444930m	3.841	ppbv	
19) Isopropyl Alcohol	4.04	45	104354	1.352	ppbv #	90
20) Methylene Chloride	4.42	84	163777	2.731	ppbv	94
26) Hexane	5.79	57	169320	1.409	ppbv #	58
34) 2-Butanone	5.35	43	114685	0.677	ppbv	99
35) Carbon Tetrachloride	7.15	117	19360m	0.074	ppbv	
36) Benzene	7.01	78	46009	0.177	ppbv	97
53) Toluene	9.95	91	1815772	6.688	ppbv	98
59) m/p-Xylene	13.13	91	59979m	0.189	ppbv	

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

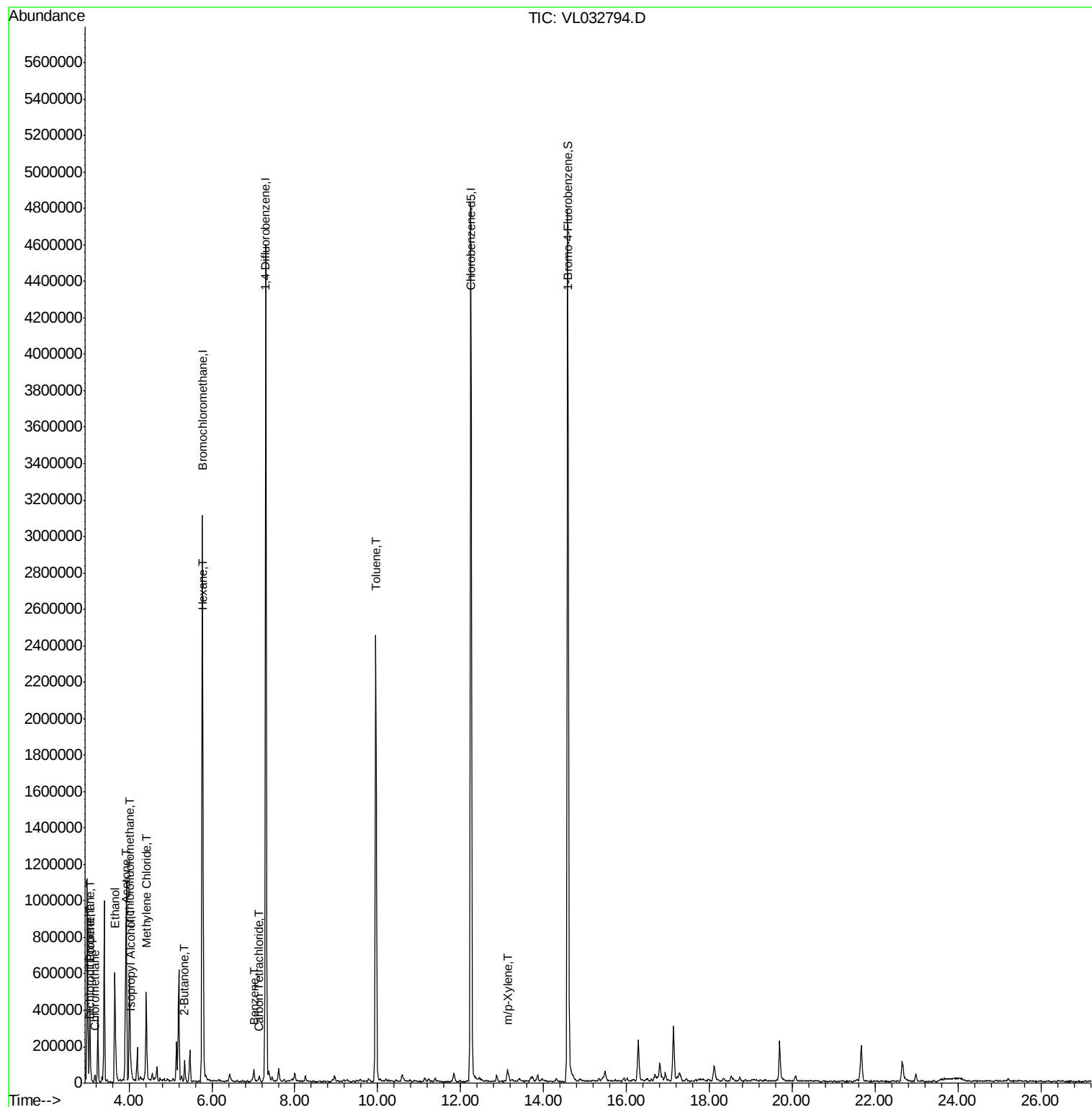
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL112018\
Data File : VL032794.D
Acq On : 21 Nov 2018 1:17
Operator : SY/AP
Sample : J5998-02
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

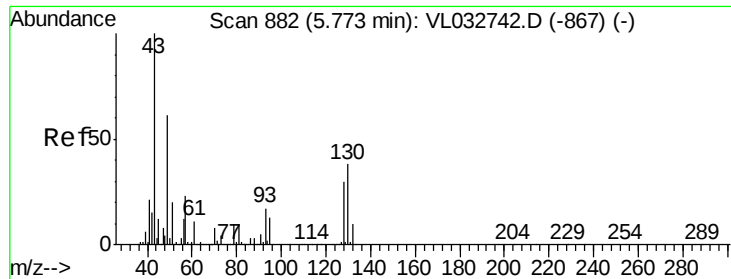
Instrument :
MSVOA_L
ClientSampleId :
AA-ROOF

Manual Integrations
APPROVED

MMDadoda
11/26/2018 9:18:53 AM

Quant Time: Nov 21 06:09:58 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL111418AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov
QLast Update : Wed Nov 14 07:00:23 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 880

Delta R.T. -0.01 min

Lab File: VL032794.D

Acq: 21 Nov 2018 1:17

Instrument :

MSVOA_L

ClientSampleId :

AA-ROOF

Tot Ion: 49 Resp: 1268357

Ion Ratio Lower Upper

49 100

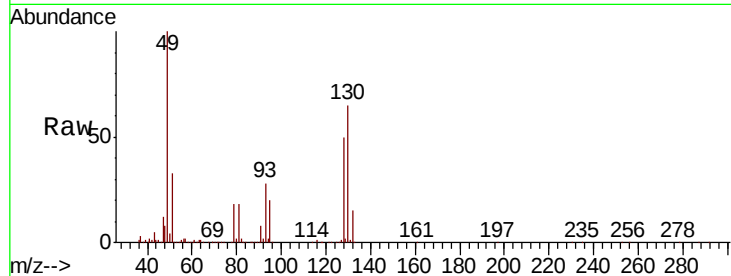
128 52.5 24.9 74.6

130 66.8 31.4 94.2

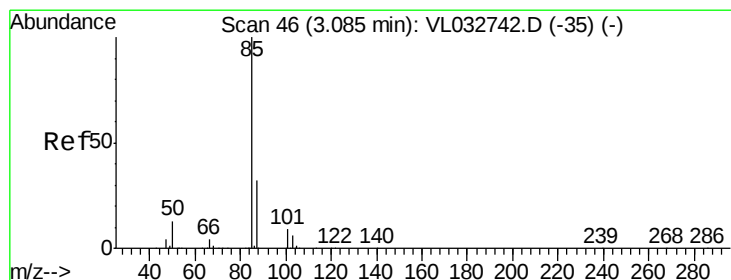
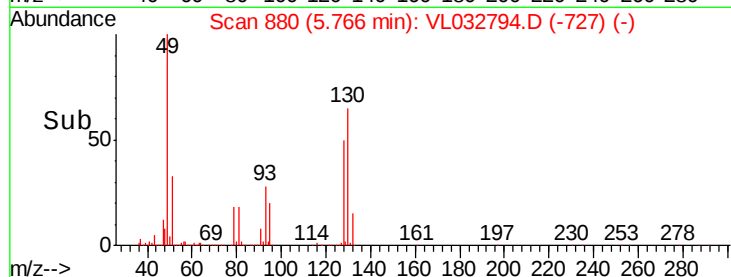
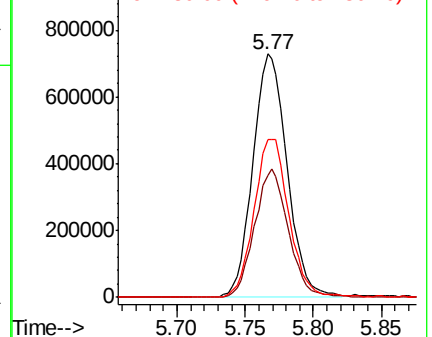
Manual Integrations
APPROVED

MMDadoda

11/26/2018 9:18:53 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



#2

Dichlorodifluoromethane

Concen: 0.217 ppbv

RT: 3.08 min Scan# 45

Delta R.T. -0.00 min

Lab File: VL032794.D

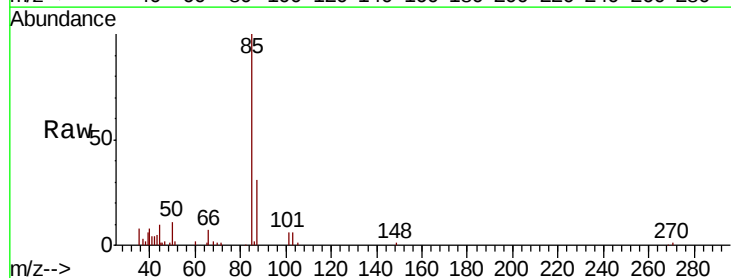
Acq: 21 Nov 2018 1:17

Tgt Ion: 85 Resp: 39543

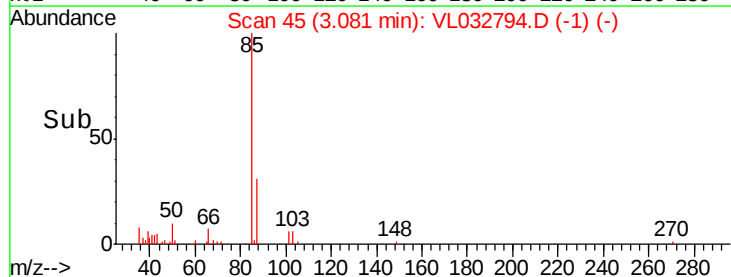
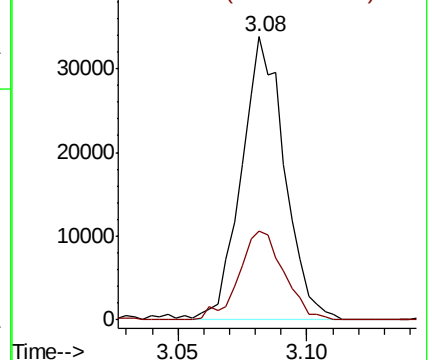
Ion Ratio Lower Upper

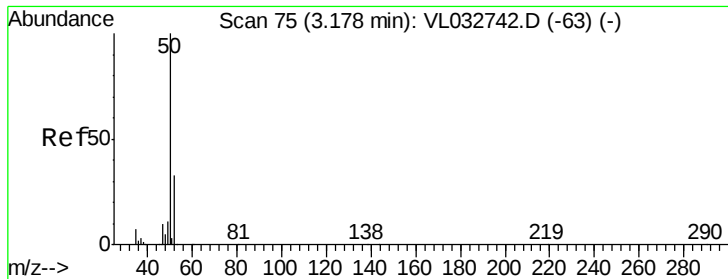
85 100

87 31.4 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0
Ion 87.00 (86.70 to 87.70): VL0





#4

Chloromethane

Concen: 0.506 ppbv

RT: 3.18 min Scan# 75

Delta R.T. -0.00 min

Lab File: VL032794.D

Acq: 21 Nov 2018 1:17

Instrument :

MSVOA_L

ClientSampleId :

AA-ROOF

Tot Ion: 50 Resp: 28230

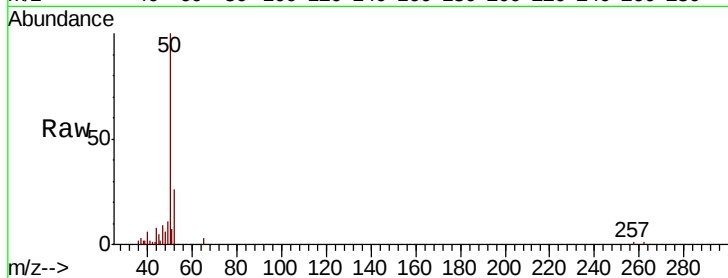
Ion Ratio Lower Upper

50 100

52 25.8 26.6 40.0#

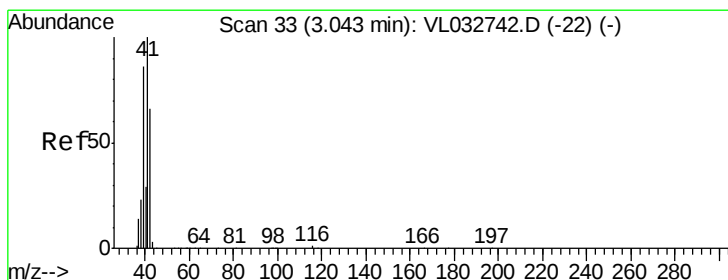
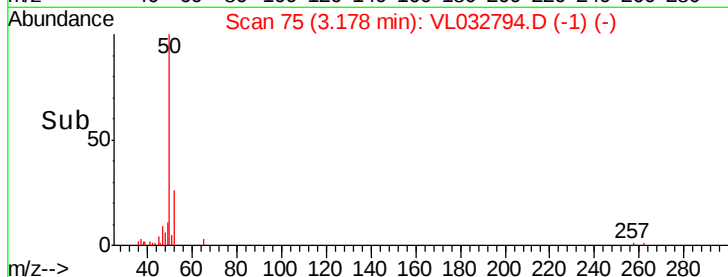
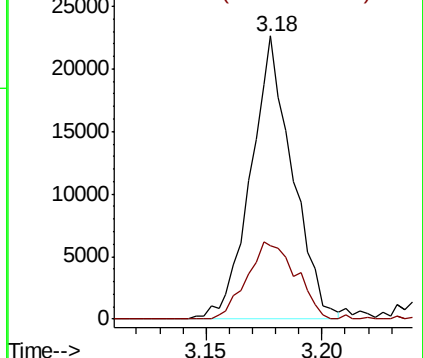
Manual Integrations
APPROVED

MMDadoda
11/26/2018 9:18:53 AM



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#9

Propene

Concen: 2.084 ppbv

RT: 3.06 min Scan# 37

Delta R.T. 0.01 min

Lab File: VL032794.D

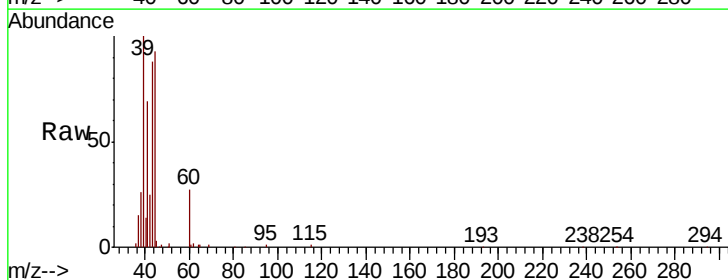
Acq: 21 Nov 2018 1:17

Tgt Ion: 41 Resp: 83866

Ion Ratio Lower Upper

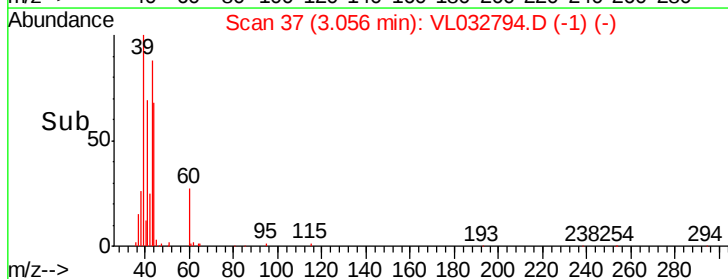
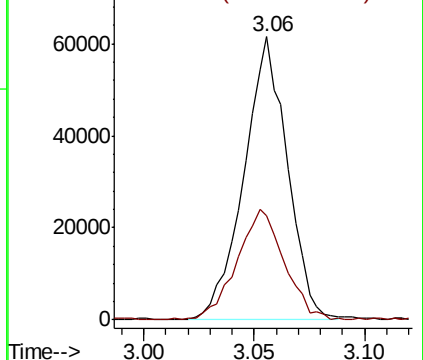
41 100

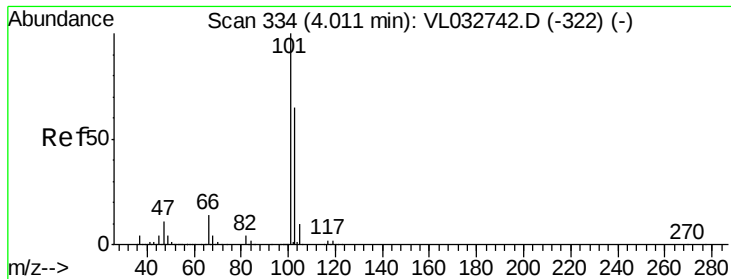
42 43.0 55.0 82.6#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





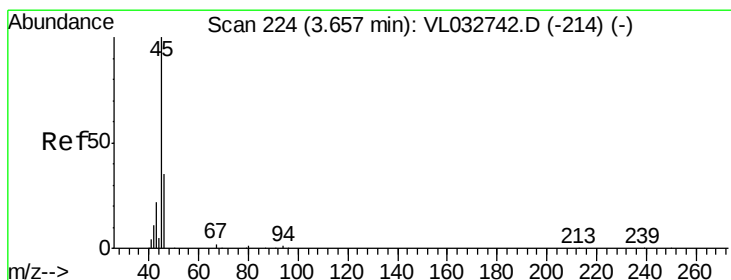
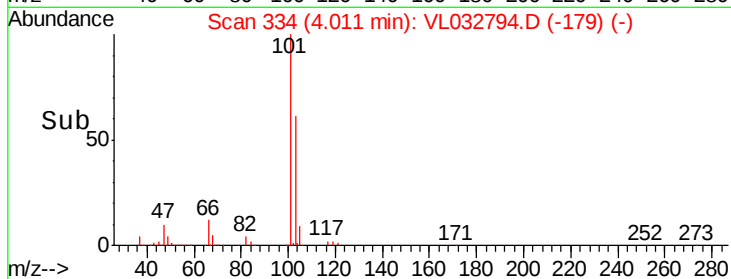
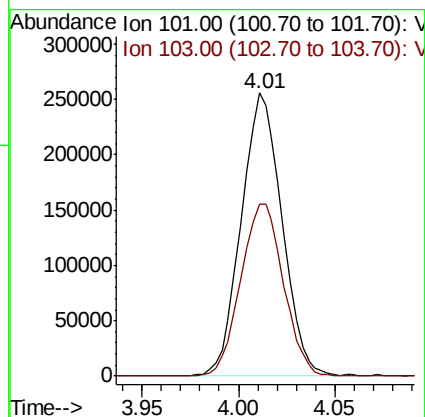
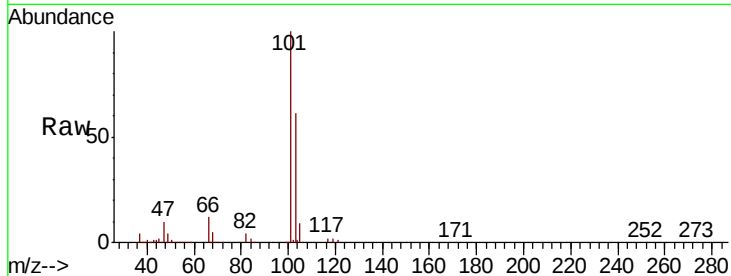
#11
 Trichlorofluoromethane
 Concen: 2.184 ppbv
 RT: 4.01 min Scan# 334
 Delta R.T. -0.00 min
 Lab File: VL032794.D
 Acq: 21 Nov 2018 1:17

Instrument :
 MSVOA_L
 ClientSampleId :
 AA-ROOF

Tot Ion	Ratio	Lower	Upper
101	100		
103	60.7	51.6	77.4

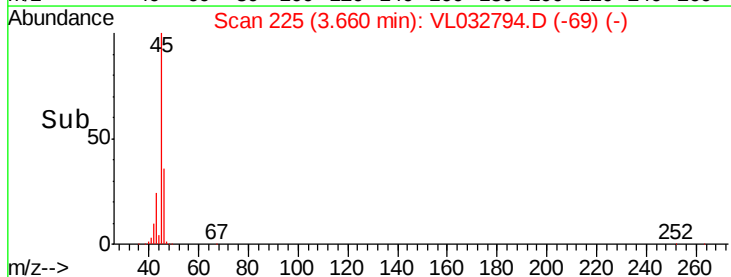
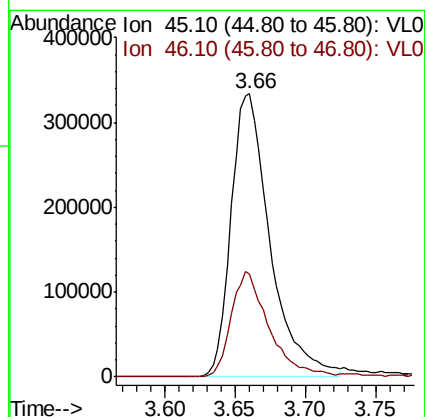
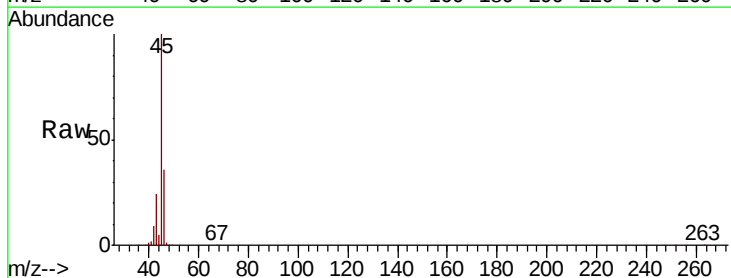
Manual Integrations
 APPROVED

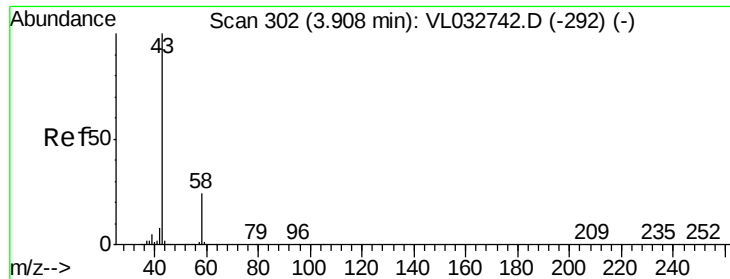
MMDadoda
 11/26/2018 9:18:53 AM



#13
 Ethanol
 Concen: 49.072 ppbv
 RT: 3.66 min Scan# 225
 Delta R.T. 0.00 min
 Lab File: VL032794.D
 Acq: 21 Nov 2018 1:17

Tgt Ion	Ratio	Lower	Upper
45	100		
46	36.9	14.5	57.9





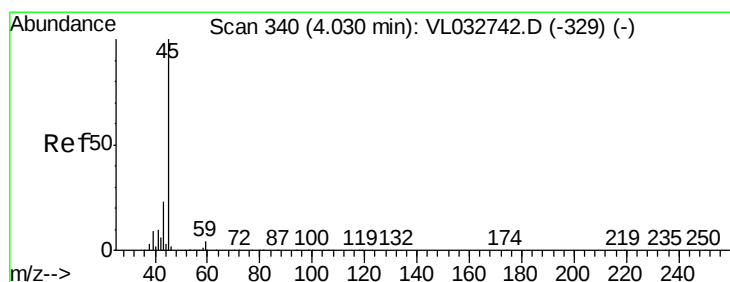
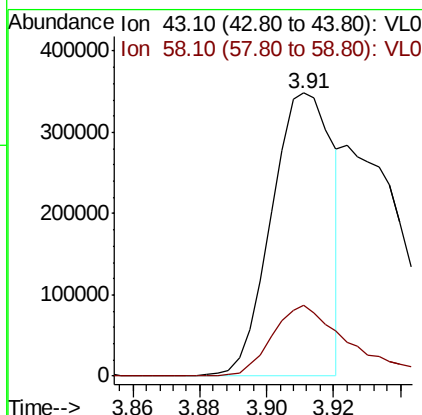
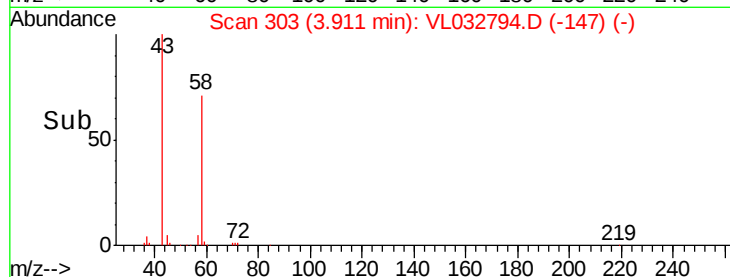
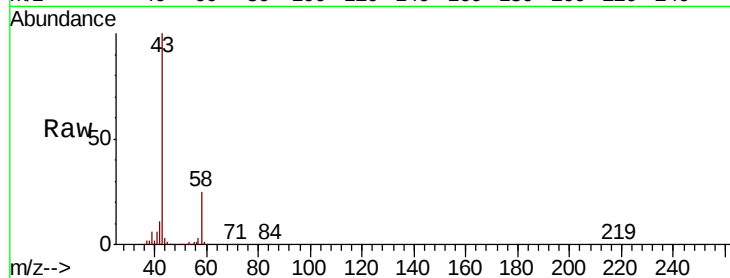
#15
Acetone
Concen: 3.841 ppbv m
RT: 3.91 min Scan# 303
Delta R.T. 0.00 min
Lab File: VL032794.D
Acq: 21 Nov 2018 1:17

Instrument :
MSVOA_L
ClientSampleId :
AA-ROOF

Tot Ion: 43 Resp: 444930
Ion Ratio Lower Upper
43 100
58 31.9 21.1 31.7#

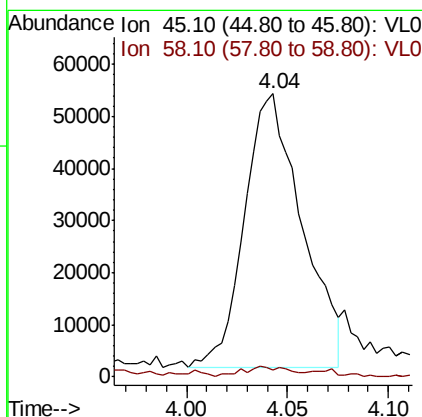
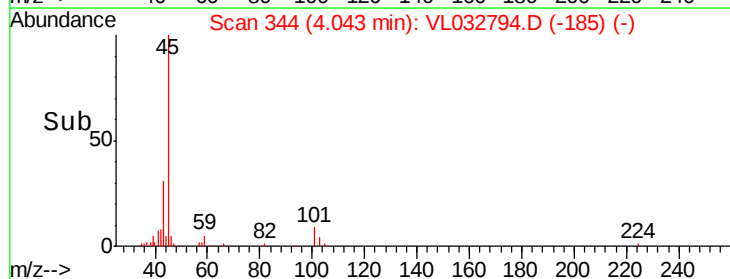
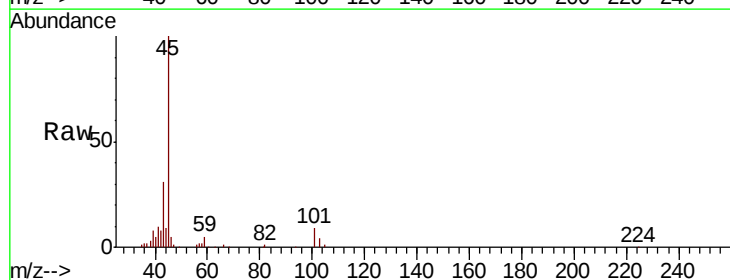
Manual Integrations
APPROVED

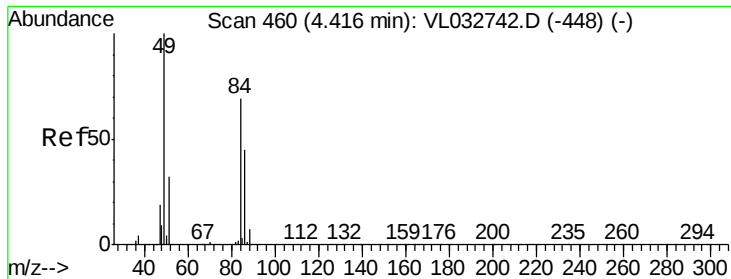
MMDadoda
11/26/2018 9:18:53 AM



#19
Isopropyl Alcohol
Concen: 1.352 ppbv
RT: 4.04 min Scan# 344
Delta R.T. 0.01 min
Lab File: VL032794.D
Acq: 21 Nov 2018 1:17

Tgt Ion: 45 Resp: 104354
Ion Ratio Lower Upper
45 100
58 5.5 1.4 2.0#





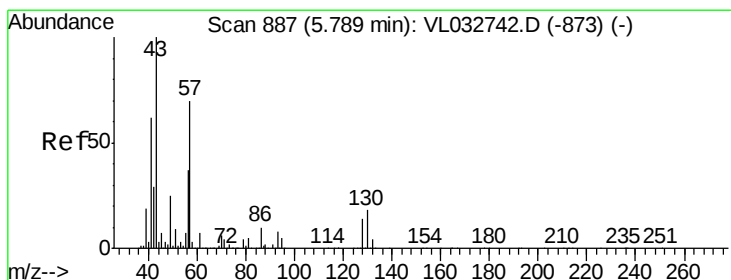
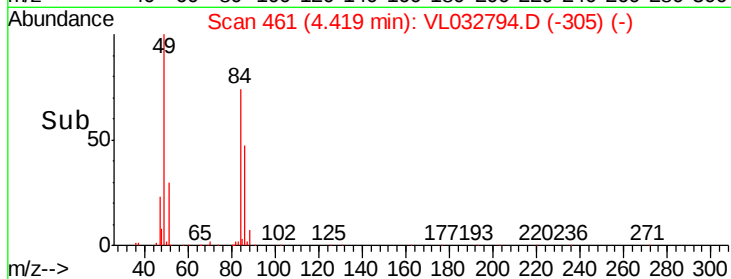
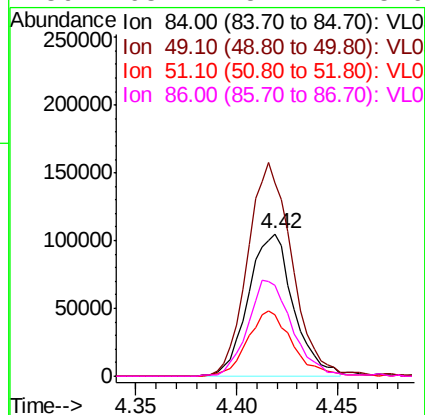
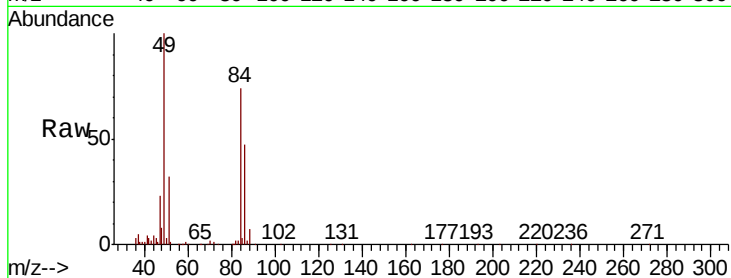
#20
Methvlene Chloride
Concen: 2.731 ppbv
RT: 4.42 min Scan# 461
Delta R.T. 0.00 min
Lab File: VL032794.D
Acq: 21 Nov 2018 1:17

Instrument :
MSVOA_L
ClientSampleId :
AA-ROOF

Tot Ion:	84	Resp:	163777
Ion Ratio	Lower	Upper	
84	100		
49	135.6	115.8	173.6
51	42.4	36.9	55.3
86	63.7	52.4	78.6

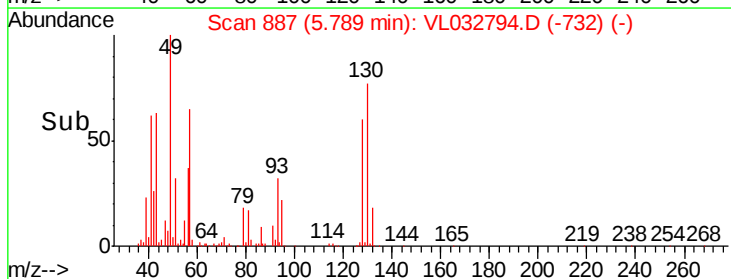
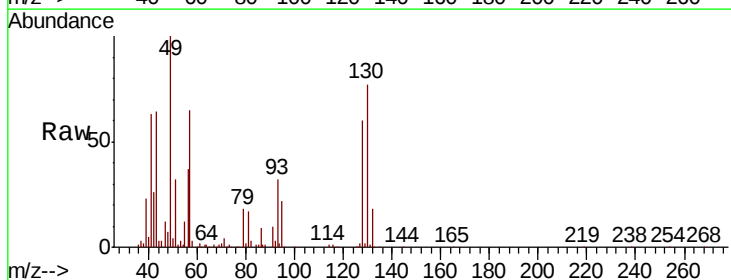
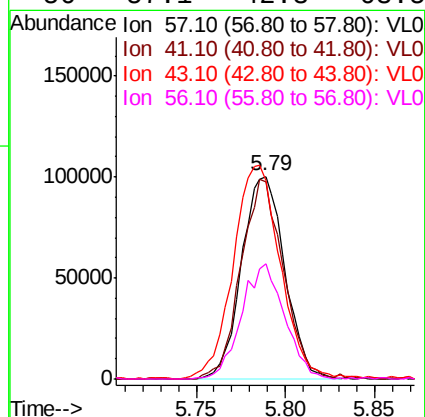
Manual Integrations
APPROVED

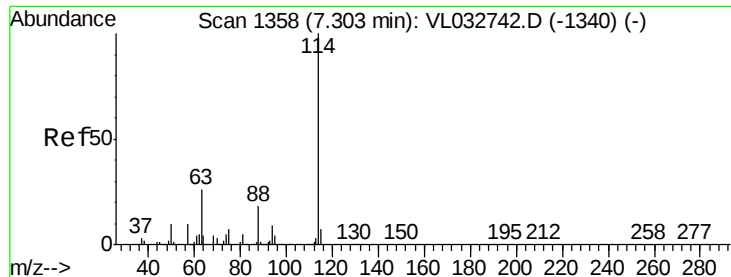
MMDadoda
11/26/2018 9:18:53 AM



#26
Hexane
Concen: 1.409 ppbv
RT: 5.79 min Scan# 887
Delta R.T. -0.00 min
Lab File: VL032794.D
Acq: 21 Nov 2018 1:17

Tgt Ion:	57	Resp:	169320
Ion Ratio	Lower	Upper	
57	100		
41	97.6	70.3	105.5
43	116.2	174.0	261.0#
56	57.1	42.3	63.5





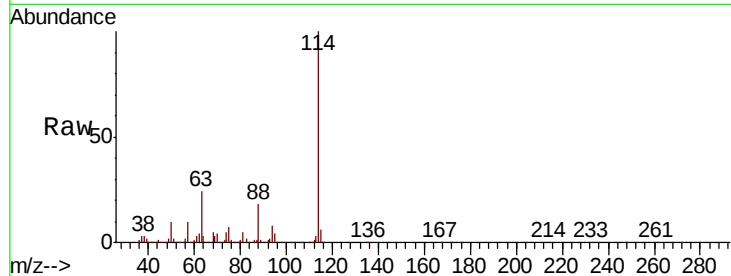
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.30 min Scan# 1357
 Delta R.T. -0.00 min
 Lab File: VL032794.D
 Acq: 21 Nov 2018 1:17

Instrument :
 MSVOA_L
 ClientSampleId :
 AA-ROOF

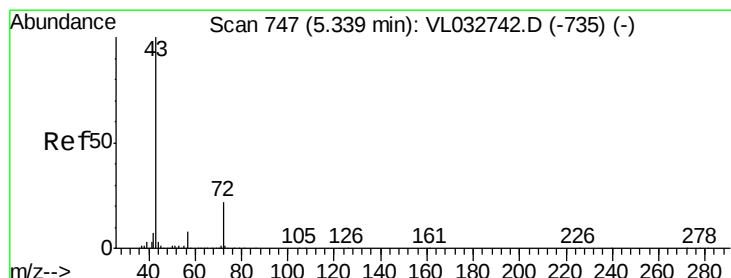
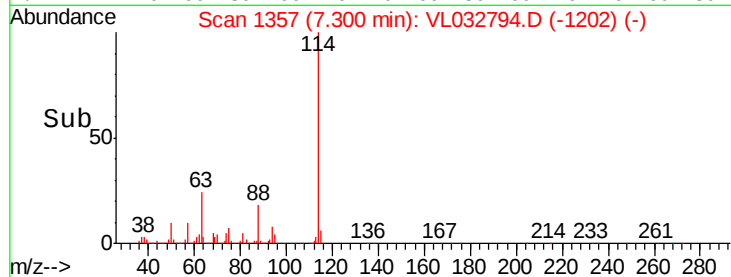
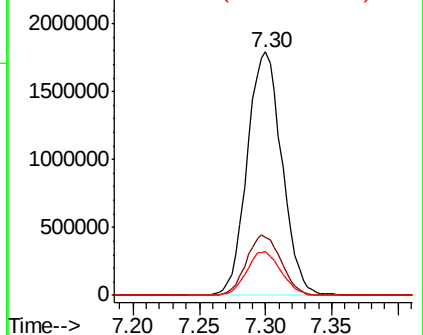
Tot Ion	Ratio	Lower	Upper
114	100		
63	24.8	20.9	31.3
88	17.9	14.4	21.6

Manual Integrations
 APPROVED

MMDadoda
 11/26/2018 9:18:53 AM

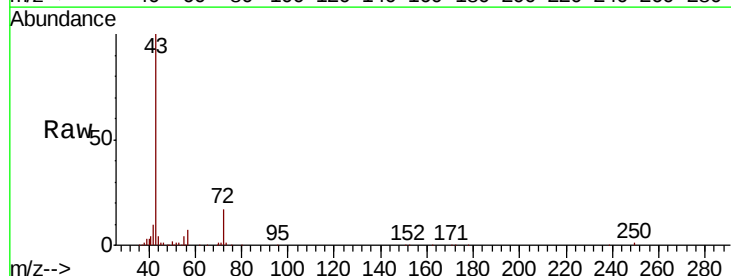


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

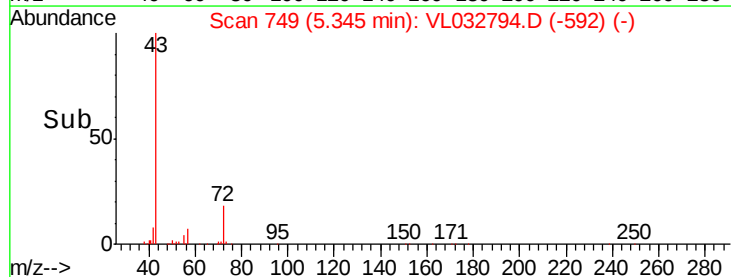
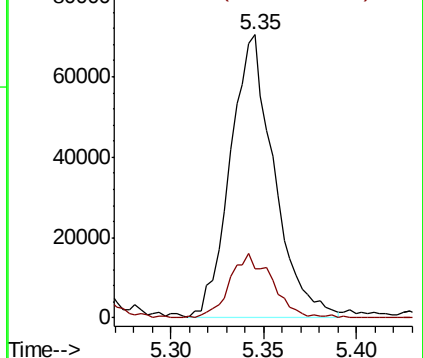


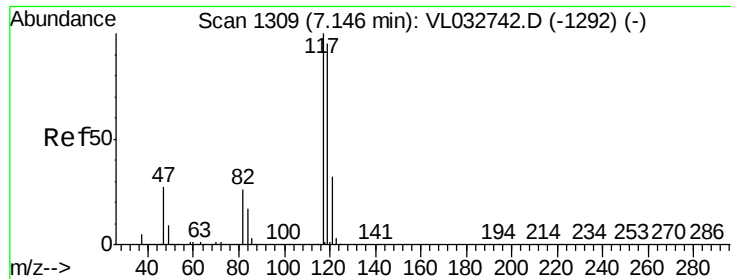
#34
 2-Butanone
 Concen: 0.677 ppbv
 RT: 5.35 min Scan# 749
 Delta R.T. 0.01 min
 Lab File: VL032794.D
 Acq: 21 Nov 2018 1:17

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.4	18.4	27.6



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





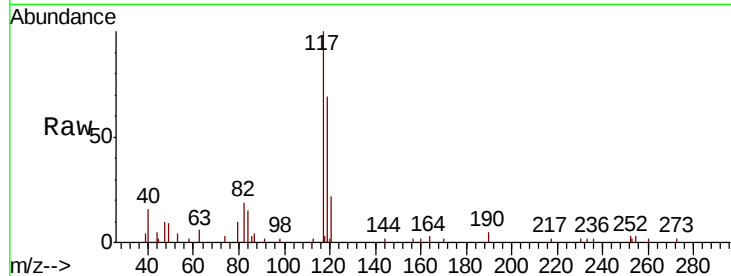
#35
Carbon Tetrachloride
Concen: 0.074 ppbv m
RT: 7.15 min Scan# 1310
Delta R.T. 0.00 min
Lab File: VL032794.D
Acq: 21 Nov 2018 1:17

Instrument :
MSVOA_L
ClientSampleId :
AA-ROOF

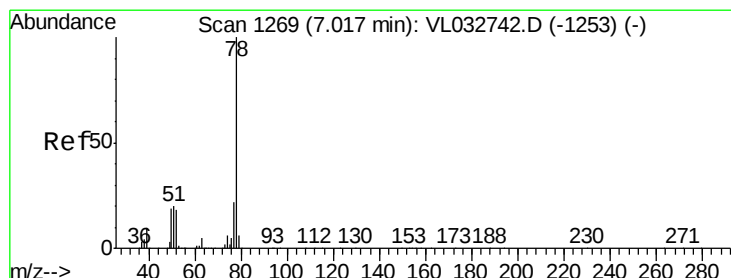
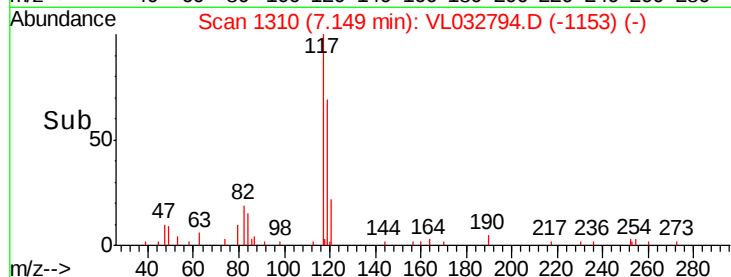
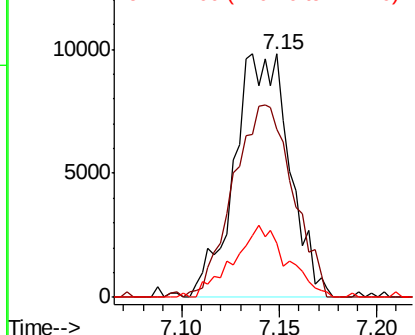
Tot Ion	Ratio	Resp	Lower	Upper
117	100	19360		
119	69.2	76.1	114.1#	
121	22.3	25.4	38.0#	

Manual Integrations
APPROVED

MMDadoda
11/26/2018 9:18:53 AM

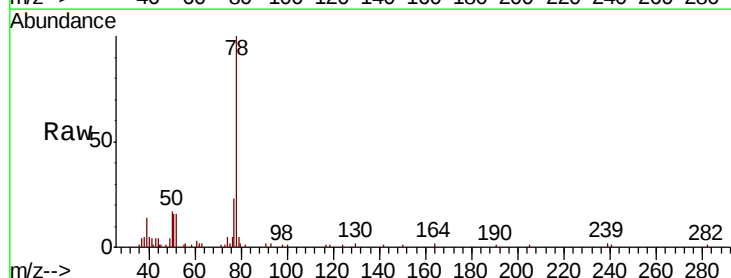


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V

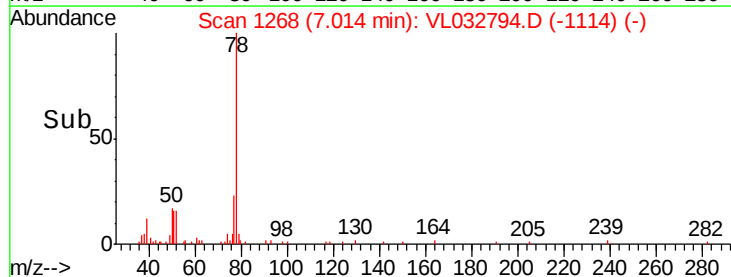
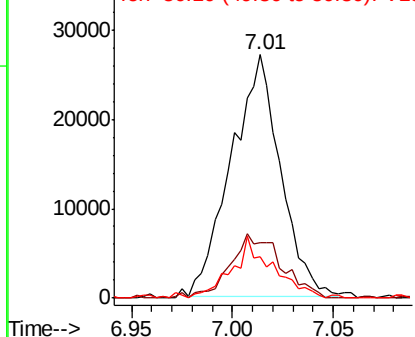


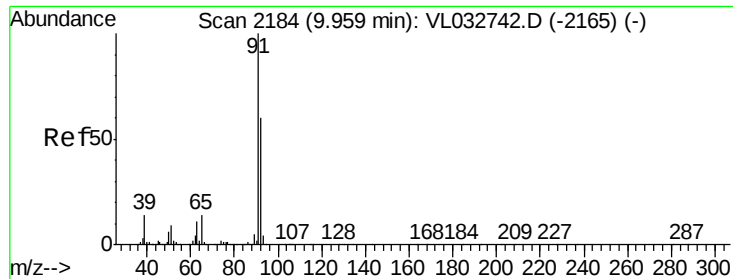
#36
Benzene
Concen: 0.177 ppbv
RT: 7.01 min Scan# 1268
Delta R.T. -0.00 min
Lab File: VL032794.D
Acq: 21 Nov 2018 1:17

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	46009		
77	23.0	17.8	26.8	
50	16.5	15.4	23.0	



Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0





#53

Toluene

Concen: 6.688 ppbv

RT: 9.95 min Scan# 2182

Delta R.T. -0.01 min

Lab File: VL032794.D

Acq: 21 Nov 2018 1:17

Instrument :

MSVOA_L

ClientSampleId :

AA-ROOF

Tot Ion: 91 Resp: 1815772

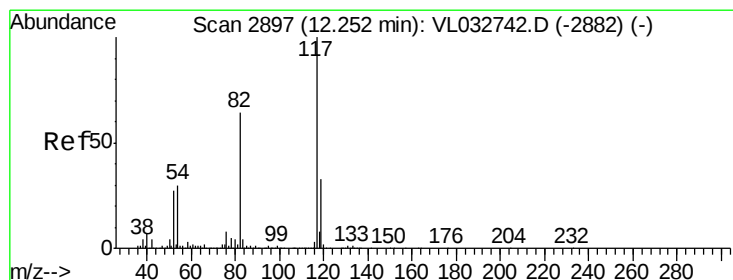
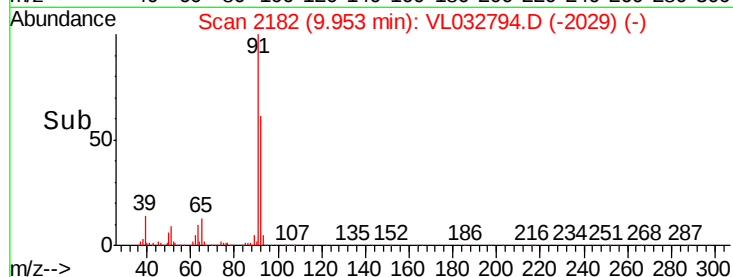
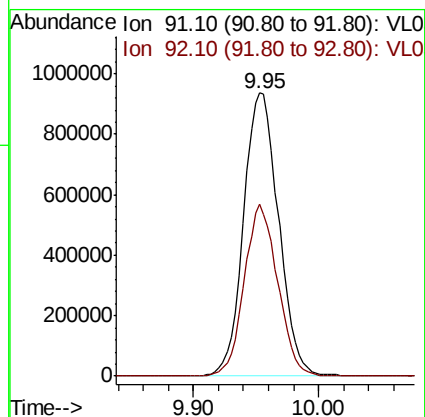
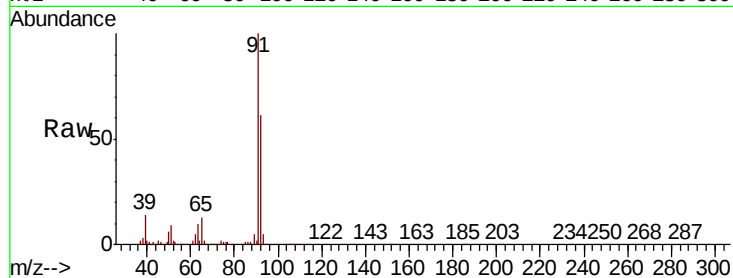
Ion Ratio Lower Upper

91 100

92 58.2 47.9 71.9

Manual Integrations
APPROVED

MMDadoda
11/26/2018 9:18:53 AM



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.25 min Scan# 2896

Delta R.T. -0.00 min

Lab File: VL032794.D

Acq: 21 Nov 2018 1:17

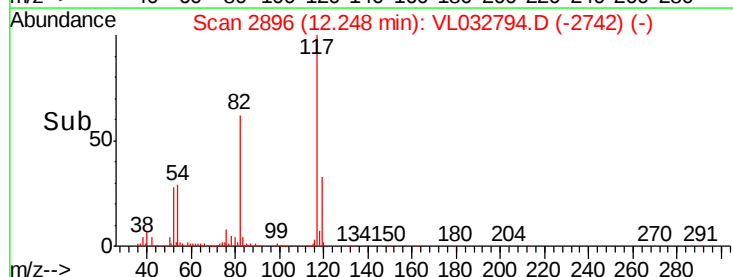
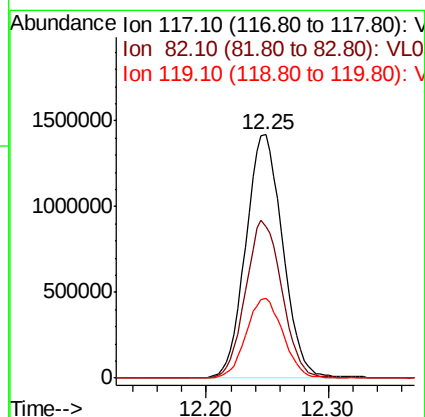
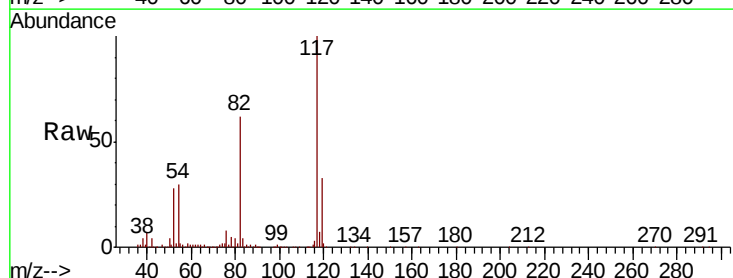
Tgt Ion: 117 Resp: 2959576

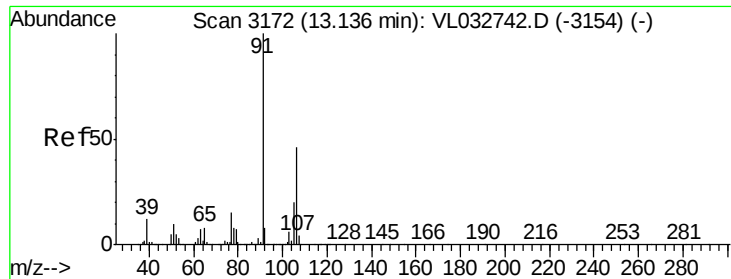
Ion Ratio Lower Upper

117 100

82 64.6 51.0 76.6

119 32.8 28.0 42.0





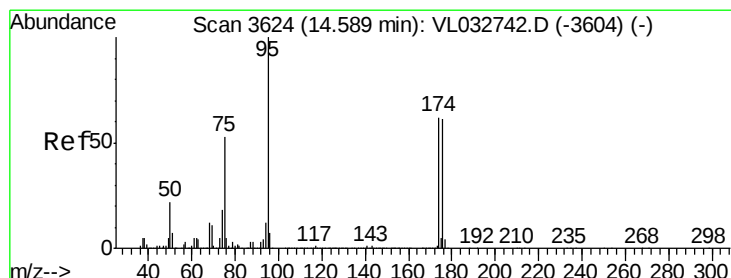
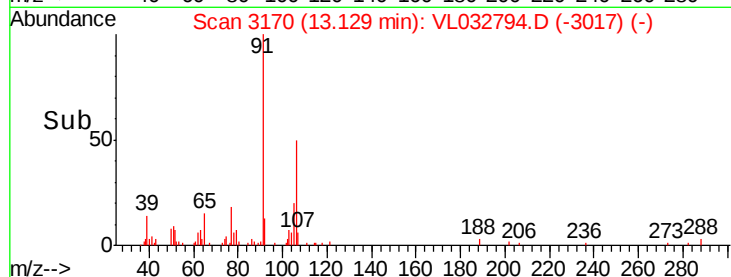
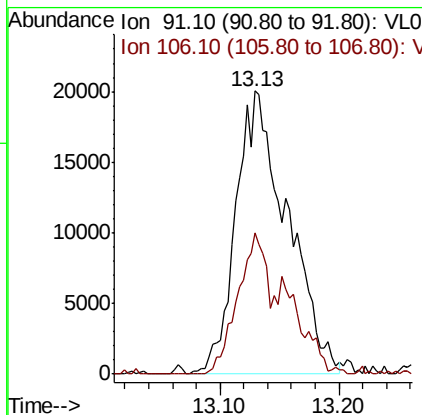
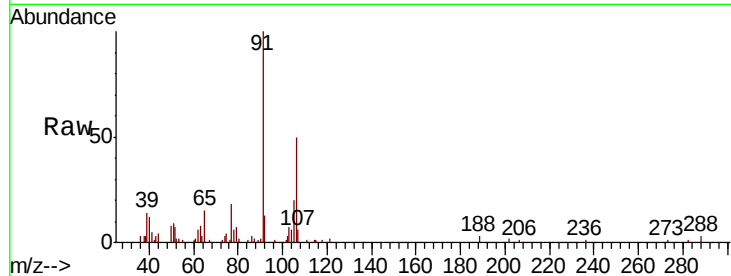
#59
m/p-Xylene
Concen: 0.189 ppbv m
RT: 13.13 min Scan# 3170
Delta R.T. -0.01 min
Lab File: VL032794.D
Acq: 21 Nov 2018 1:17

Instrument :
MSVOA_L
ClientSampleId :
AA-ROOF

Tot Ion: 91 Resp: 59979
Ion Ratio Lower Upper
91 100
106 46.1 36.1 54.1

Manual Integrations
APPROVED

MMDadoda
11/26/2018 9:18:53 AM



#68
1-Bromo-4-Fluorobenzene
Concen: 10.215 ppbv
RT: 14.59 min Scan# 3623
Delta R.T. -0.00 min
Lab File: VL032794.D
Acq: 21 Nov 2018 1:17

Tgt Ion: 95 Resp: 2261188
Ion Ratio Lower Upper
95 100
174 66.5 50.7 76.1
175 4.7 3.8 5.6

