

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL011619\
 Data File : VL033094.D
 Acq On : 16 Jan 2019 16:19
 Operator : SY/AP
 Sample : K1130-01DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1ADL

Manual Integrations
 APPROVED

MMDadoda
 1/17/2019 3:16:21 PM

Quant Time: Jan 17 03:08:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL010419AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jan 0
 QLast Update : Fri Jan 04 16:09:05 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1055239	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2543110	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2401028	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1842997	10.01	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
13) Ethanol	3.65	45	99700m	5.603	ppbv	
15) Acetone	3.91	43	88809	0.608	ppbv	99
20) Methylene Chloride	4.41	84	96272	1.581	ppbv	96
26) Hexane	5.78	57	97107	0.835	ppbv #	41
53) Toluene	9.95	91	36806m	0.165	ppbv	

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

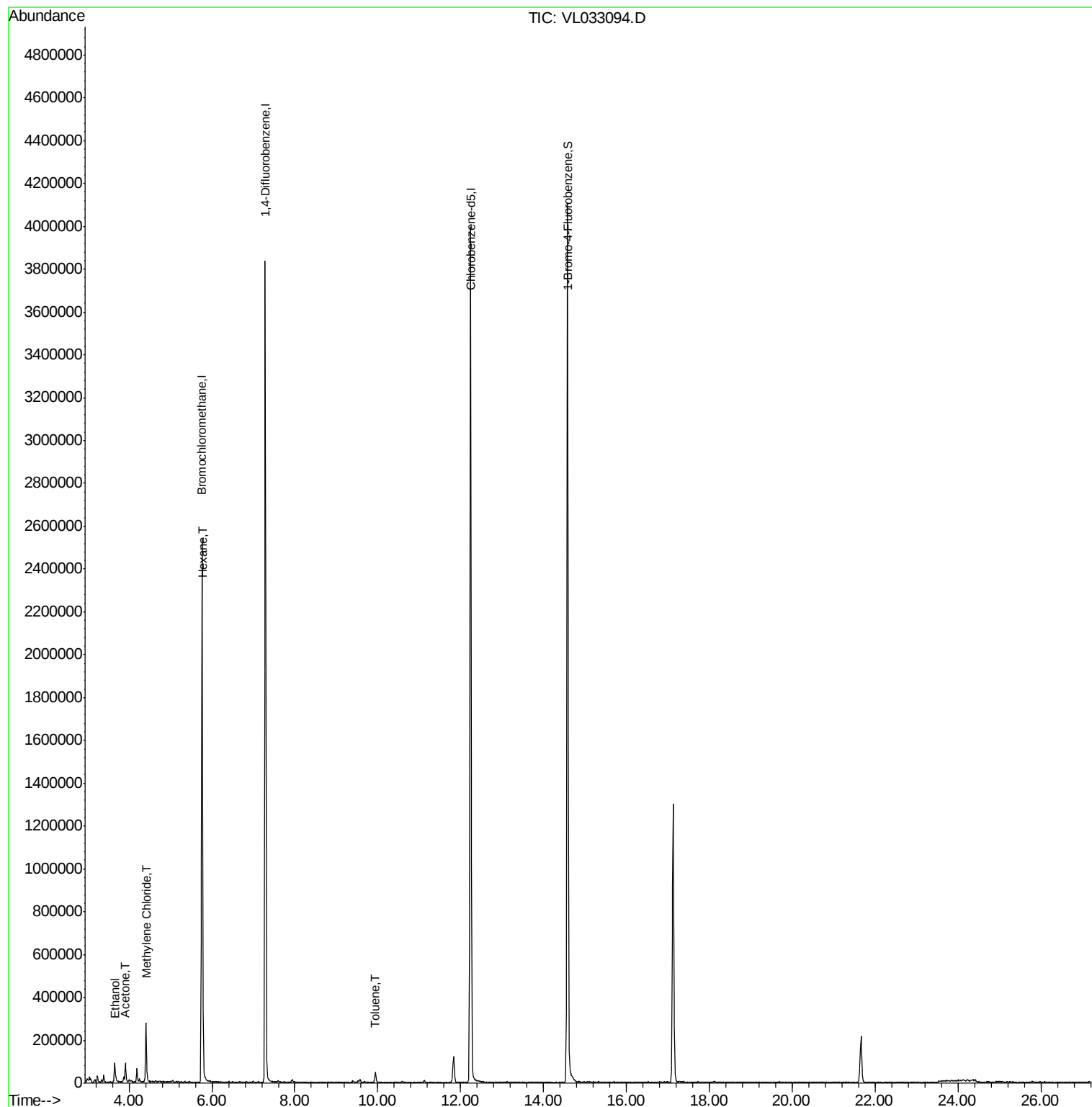
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL011619\
Data File : VL033094.D
Acq On : 16 Jan 2019 16:19
Operator : SY/AP
Sample : K1130-01DL 10X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

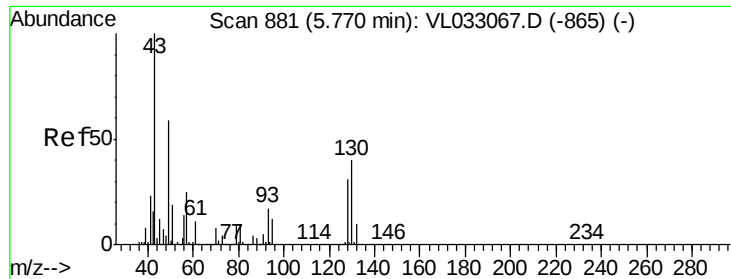
Instrument :
MSVOA_L
ClientSampleId :
IA1ADL

Manual Integrations
APPROVED

MMDadoda
1/17/2019 3:16:21 PM

Quant Time: Jan 17 03:08:51 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL010419AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jan
QLast Update : Fri Jan 04 16:09:05 2019
Response via : Initial Calibration





#1

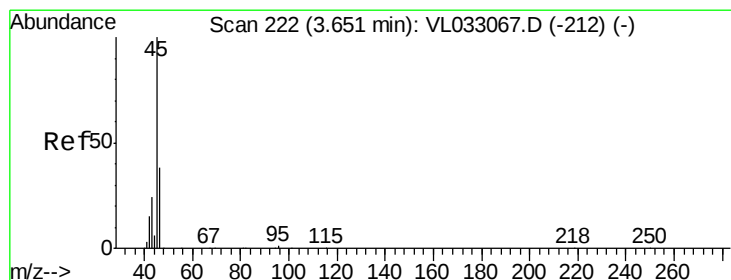
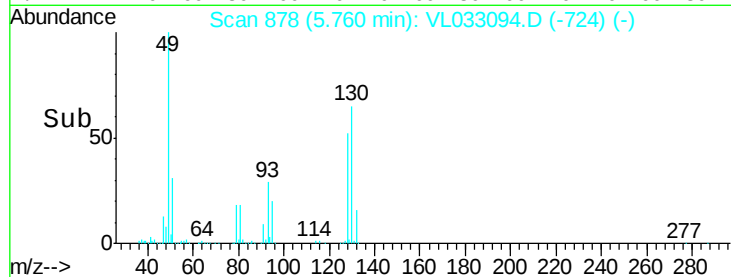
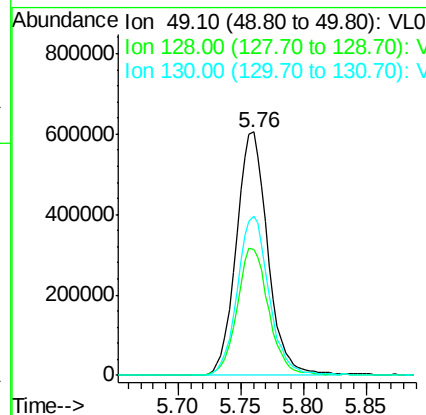
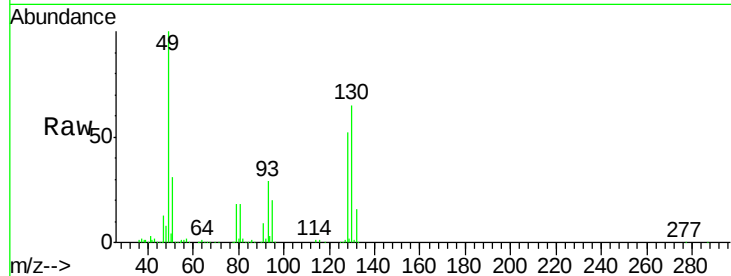
Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.76 min Scan# 878
 Delta R.T. -0.01 min
 Lab File: VL033094.D
 Acq: 16 Jan 2019 16:19

Instrument :
 MSVOA_L
 ClientSampled :
 IA1ADL

Tot Ion: 49 Resp: 1055239
 Ion Ratio Lower Upper
 49 100
 128 53.0 26.2 78.5
 130 66.4 33.6 100.6

Manual Integrations
 APPROVED

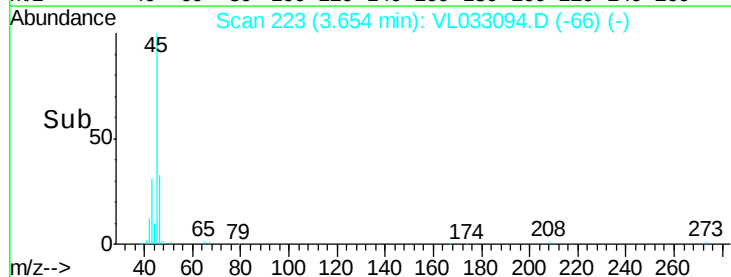
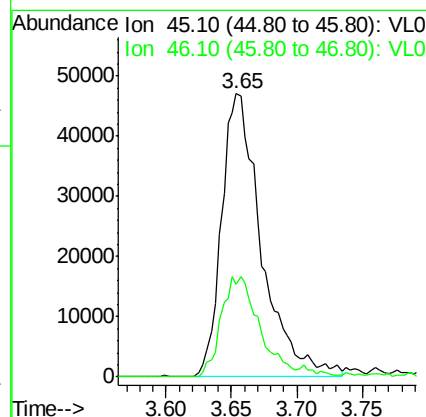
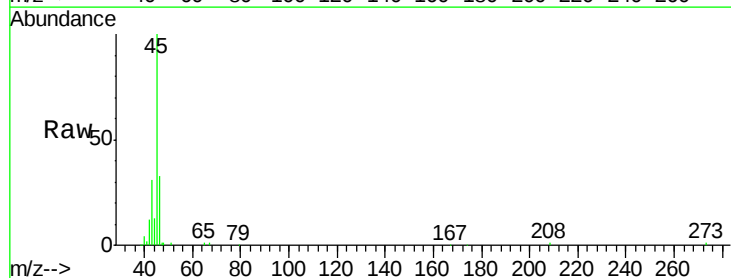
MMDadoda
 1/17/2019 3:16:21 PM

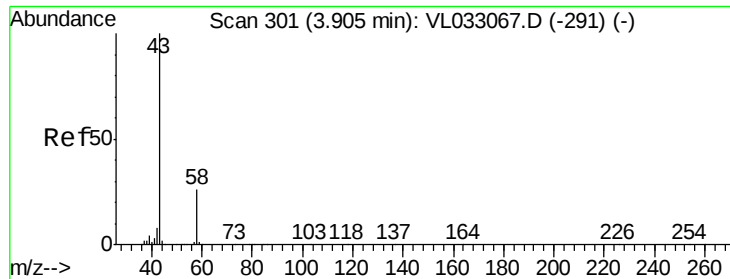


#13

Ethanol
 Concen: 5.603 ppbv m
 RT: 3.65 min Scan# 223
 Delta R.T. 0.00 min
 Lab File: VL033094.D
 Acq: 16 Jan 2019 16:19

Tgt Ion: 45 Resp: 99700
 Ion Ratio Lower Upper
 45 100
 46 35.8 13.8 55.2





#15

Acetone

Concen: 0.608 ppbv

RT: 3.91 min Scan# 303

Delta R.T. 0.01 min

Lab File: VL033094.D

Acq: 16 Jan 2019 16:19

Instrument :

MSVOA_L

ClientSampleId :

IA1ADL

Tot Ion: 43 Resp: 88809

Ion Ratio Lower Upper

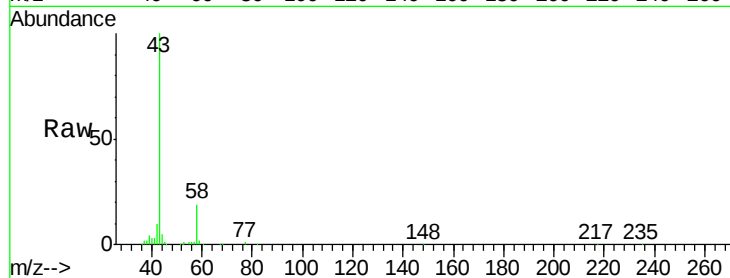
43 100

58 26.9 21.1 31.7

Manual Integrations
APPROVED

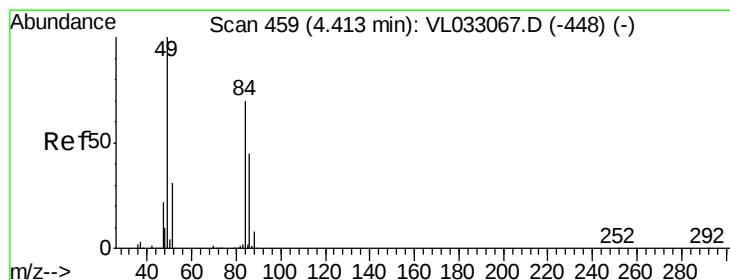
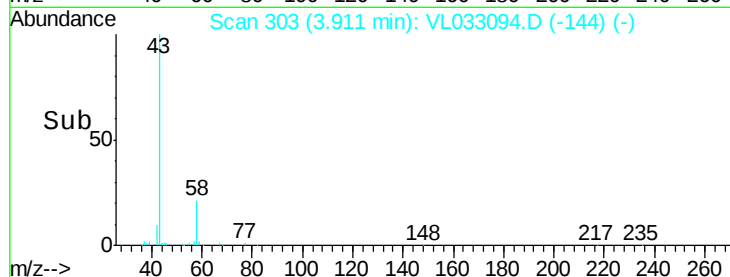
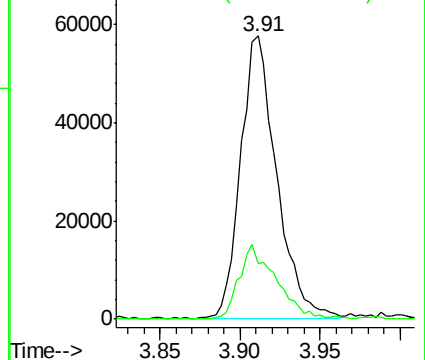
MMDadoda

1/17/2019 3:16:21 PM



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 1.581 ppbv

RT: 4.41 min Scan# 458

Delta R.T. 0.00 min

Lab File: VL033094.D

Acq: 16 Jan 2019 16:19

Tgt Ion: 84 Resp: 96272

Ion Ratio Lower Upper

84 100

49 137.9 115.8 173.6

51 42.9 35.7 53.5

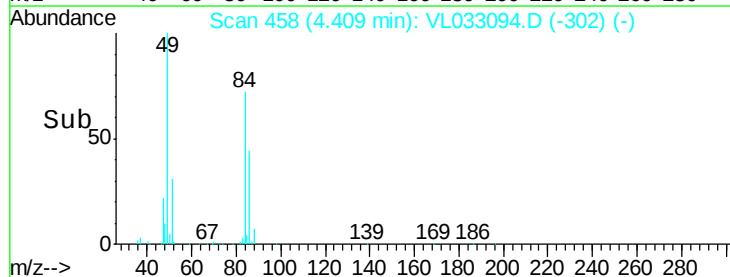
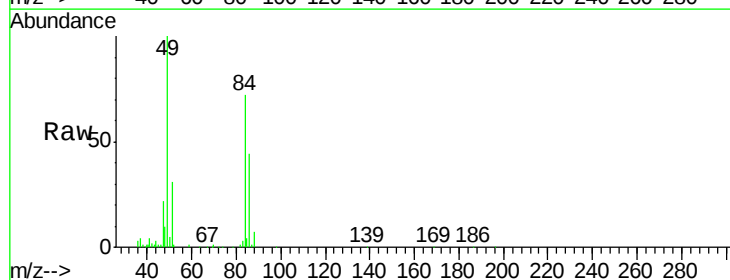
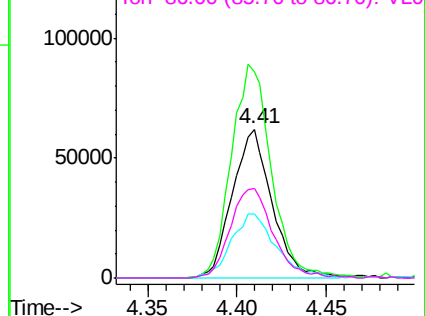
86 60.7 49.7 74.5

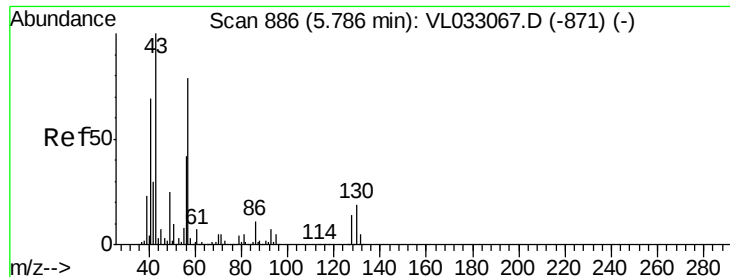
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0





#26

Hexane

Concen: 0.835 ppbv

RT: 5.78 min Scan# 883

Delta R.T. -0.01 min

Lab File: VL033094.D

Acq: 16 Jan 2019 16:19

Instrument :

MSVOA_L

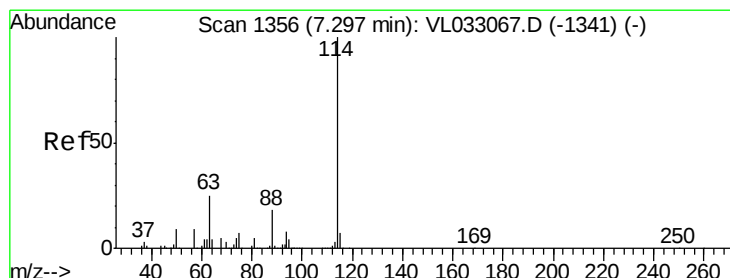
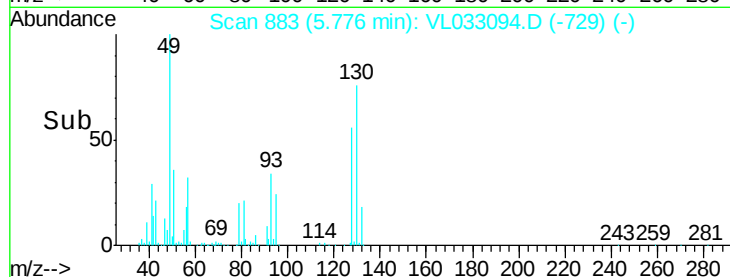
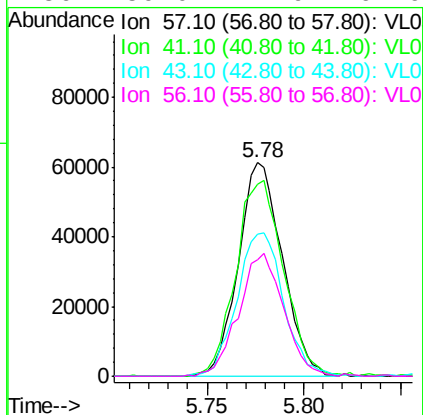
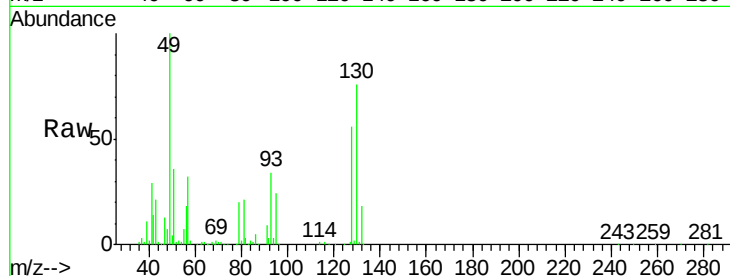
ClientSampleId :

IA1ADL

Tot Ion:	57	Resp:	97107
Ion	Ratio	Lower	Upper
57	100		
41	100.1	70.8	106.2
43	71.0	171.8	257.6#
56	59.0	41.9	62.9

Manual Integrations
APPROVED

MMDadoda
1/17/2019 3:16:21 PM



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

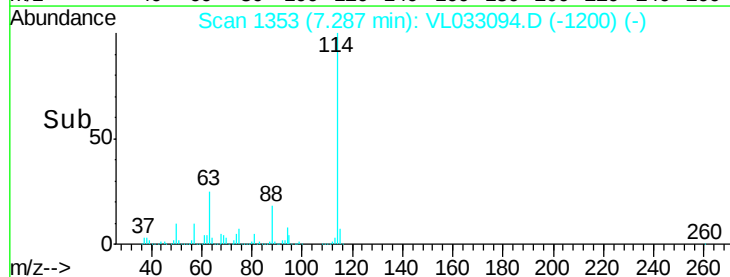
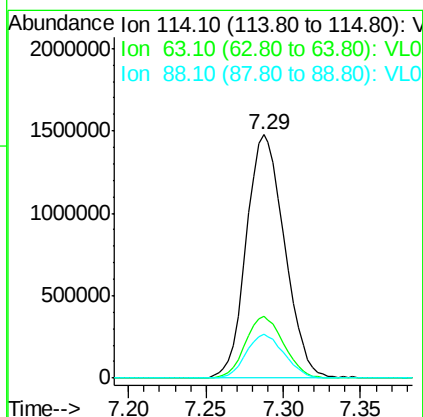
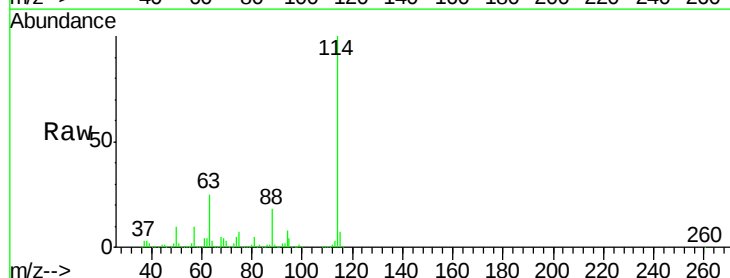
RT: 7.29 min Scan# 1353

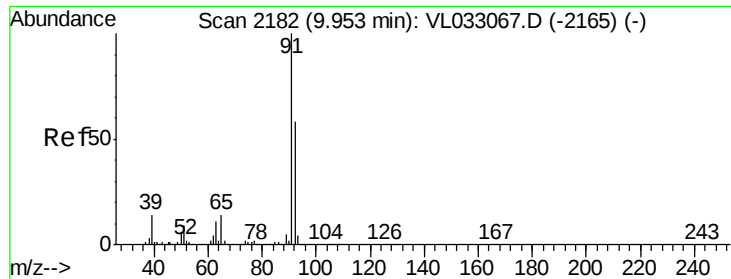
Delta R.T. -0.01 min

Lab File: VL033094.D

Acq: 16 Jan 2019 16:19

Tgt Ion:	114	Resp:	2543110
Ion	Ratio	Lower	Upper
114	100		
63	25.5	20.1	30.1
88	17.9	14.0	21.0





#53

Toluene

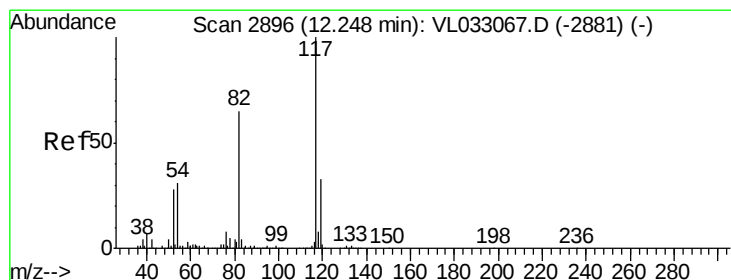
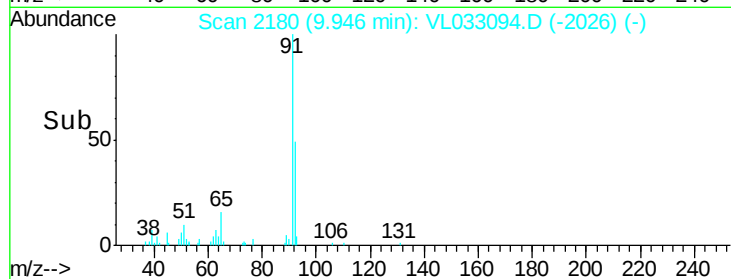
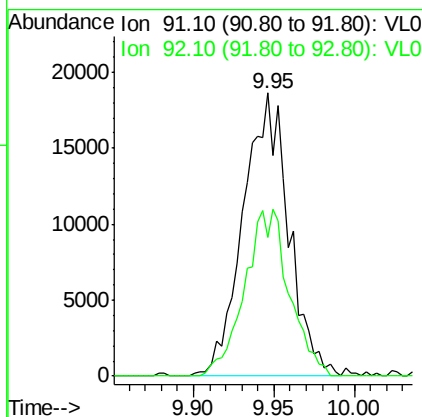
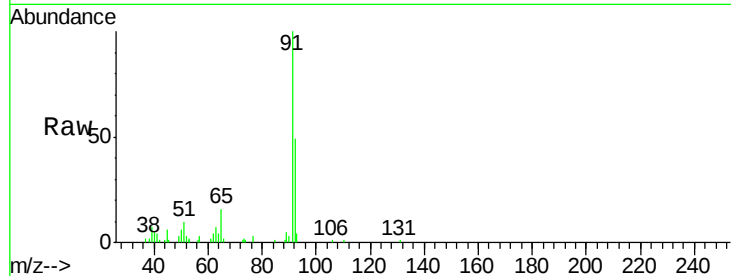
Concen: 0.165 ppbv m
RT: 9.95 min Scan# 2180
Delta R.T. -0.01 min
Lab File: VL033094.D
Acq: 16 Jan 2019 16:19

Instrument :
MSVOA_L
ClientSampleId :
IA1ADL

Tot Ion: 91 Resp: 36806
Ion Ratio Lower Upper
91 100
92 0.0 47.7 71.5#

Manual Integrations
APPROVED

MMDadoda
1/17/2019 3:16:21 PM

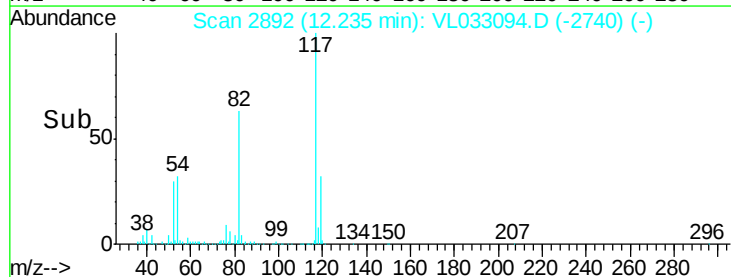
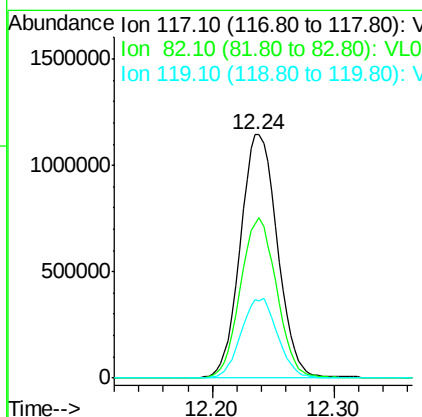
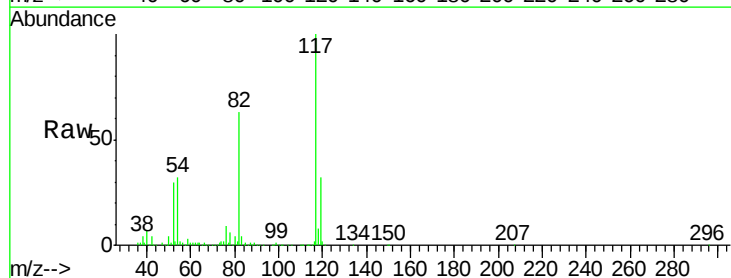


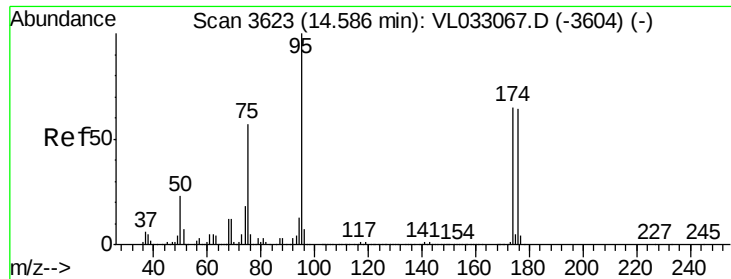
#55

Chlorobenzene-d5

Concen: 10.000 ppbv
RT: 12.24 min Scan# 2892
Delta R.T. -0.01 min
Lab File: VL033094.D
Acq: 16 Jan 2019 16:19

Tgt Ion: 117 Resp: 2401028
Ion Ratio Lower Upper
117 100
82 64.8 48.9 73.3
119 32.3 24.6 37.0





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.014 ppbv
 RT: 14.57 min Scan# 3619
 Delta R.T. -0.01 min
 Lab File: VL033094.D
 Acq: 16 Jan 2019 16:19

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1ADL

Tot Ion: 95 Resp: 1842997
 Ion Ratio Lower Upper
 95 100
 174 65.2 51.9 77.9
 175 4.8 3.9 5.9

Manual Integrations
 APPROVED

MMDadoda
 1/17/2019 3:16:21 PM

