

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040419\
 Data File : VL033540.D
 Acq On : 4 Apr 2019 19:40
 Operator : SY/AP
 Sample : K2096-03
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 A-3

Manual Integrations
 APPROVED

MMDadoda
 4/8/2019 3:22:20 AM

Quant Time: Apr 05 03:16:24 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 2
 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	974896	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1940474	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2231508	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.57	95	1774886	10.15	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	78886	0.555	ppbv	100
3) Chlorodifluoromethane	3.01	51	29739m	0.265	ppbv	
4) Chloromethane	3.17	50	27929	0.470	ppbv	96
9) Propene	3.05	41	24430	0.518	ppbv #	71
11) Trichlorofluoromethane	4.00	101	39120	0.223	ppbv	98
13) Ethanol	3.65	45	486135	39.857	ppbv	64
15) Acetone	3.90	43	388185	3.312	ppbv	98
19) Isopropyl Alcohol	4.04	45	27878	0.376	ppbv #	1
20) Methylene Chloride	4.41	84	520700	10.464	ppbv	99
26) Hexane	5.78	57	566797	5.861	ppbv #	49
34) 2-Butanone	5.34	43	30673	0.263	ppbv	99
35) Carbon Tetrachloride	7.13	117	10600m	0.077	ppbv	
36) Benzene	7.00	78	18938	0.116	ppbv #	85
38) Trichloroethene	7.96	130	11942m	0.195	ppbv	
53) Toluene	9.94	91	1073944	5.676	ppbv	100

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

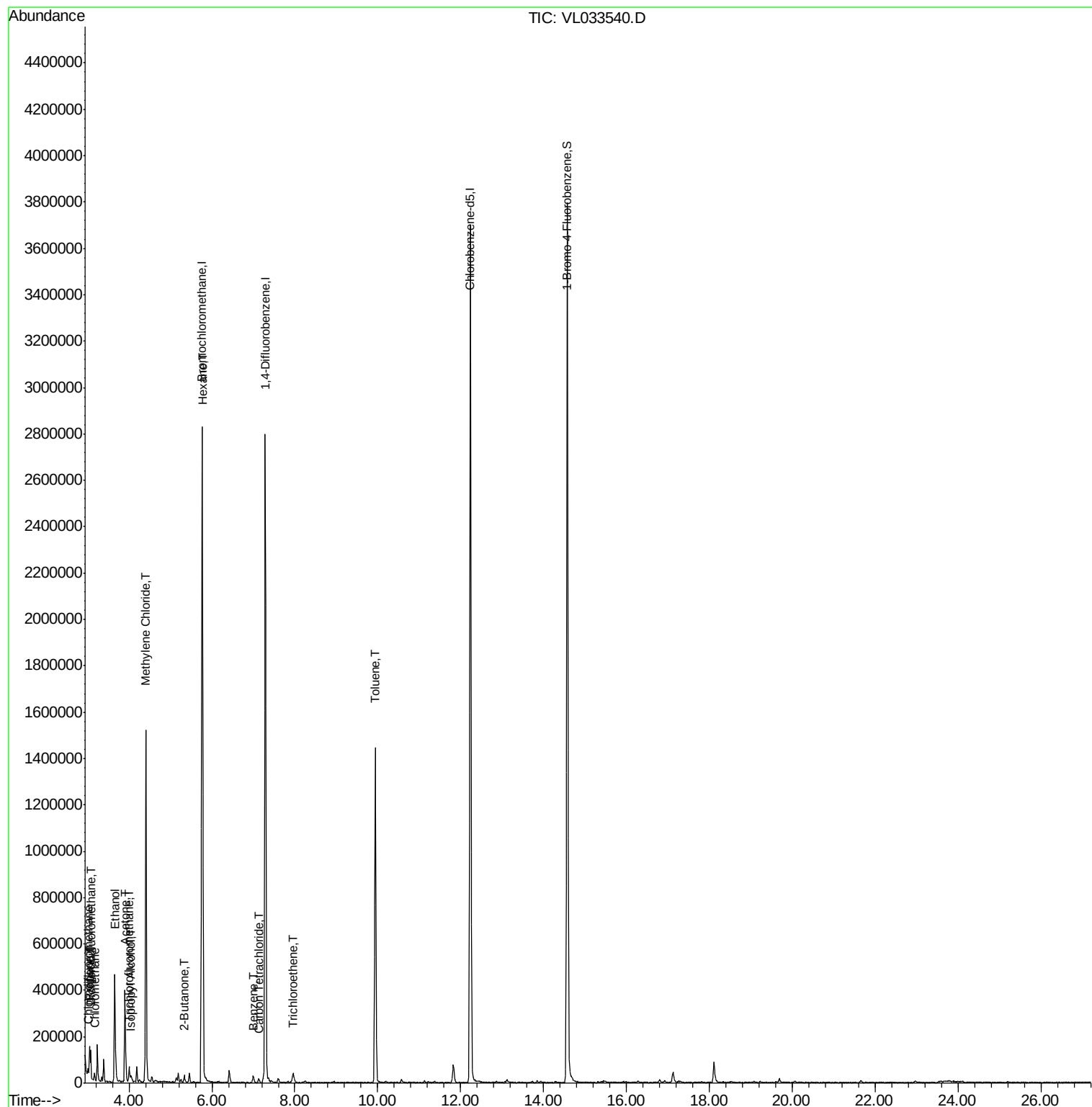
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL040419\
Data File : VL033540.D
Acq On : 4 Apr 2019 19:40
Operator : SY/AP
Sample : K2096-03
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

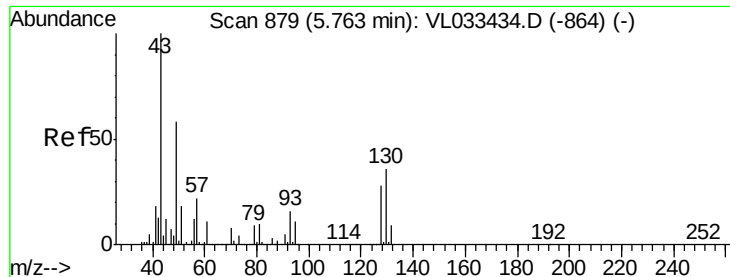
Instrument :
MSVOA_L
ClientSampleId :
A-3

Manual Integrations
APPROVED

MMDadoda
4/8/2019 3:22:20 AM

Quant Time: Apr 05 03:16:24 2019
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: VL033540.D

Acq: 4 Apr 2019 19:40

Instrument :

MSVOA_L

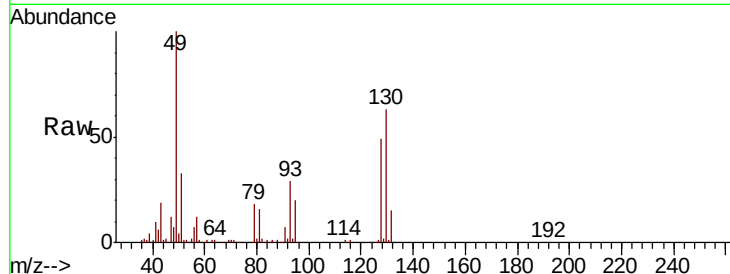
ClientSampled :

A-3

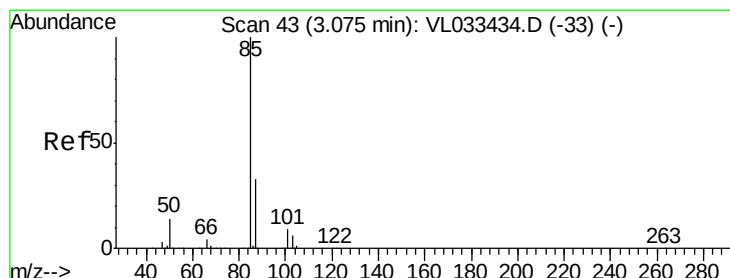
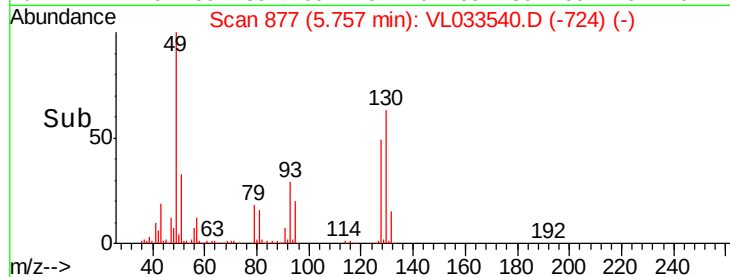
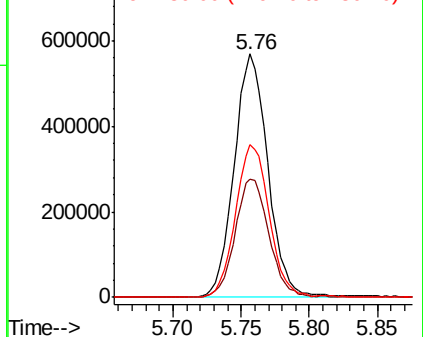
Tot Ion:	49	Resp:	974896
Ion	Ratio	Lower	Upper
49	100		
128	49.2	24.0	72.0
130	63.3	31.2	93.6

Manual Integrations
APPROVED

MMDadoda
4/8/2019 3:22:20 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: 0.555 ppbv

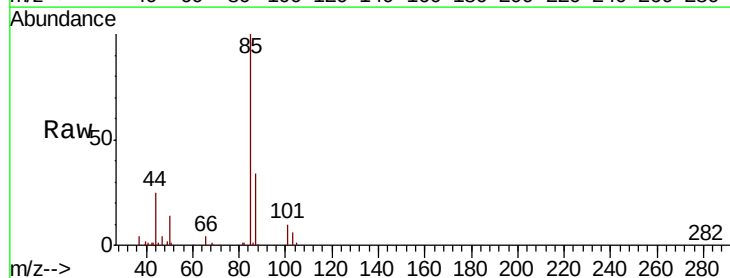
RT: 3.08 min Scan# 44

Delta R.T. 0.00 min

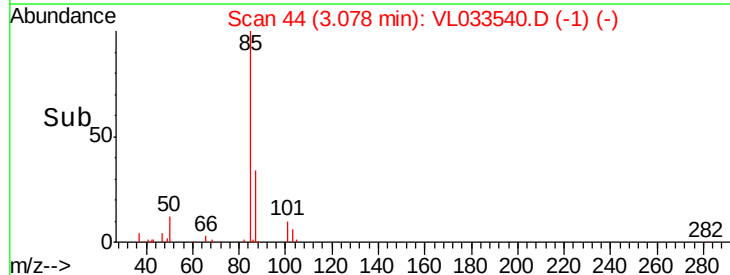
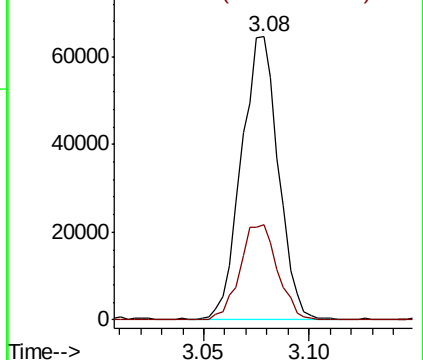
Lab File: VL033540.D

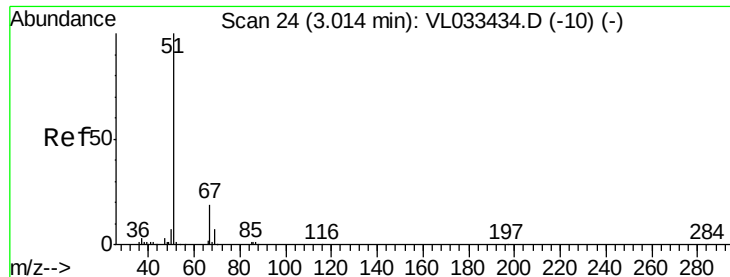
Acq: 4 Apr 2019 19:40

Tgt Ion:	85	Resp:	78886
Ion	Ratio	Lower	Upper
85	100		
87	33.6	26.7	40.1



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





#3

Chlorodifluoromethane

Concen: 0.265 ppbv

RT: 3.01 min Scan# 24

Delta R.T. -0.00 min

Lab File: VL033540.D

Acq: 4 Apr 2019 19:40

Instrument :

MSVOA_L

ClientSampleId :

A-3

Tot Ion: 51 Resp: 29739

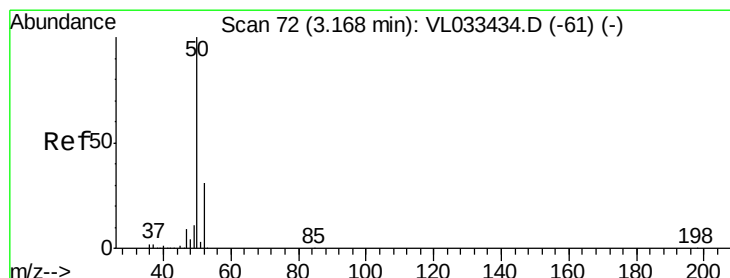
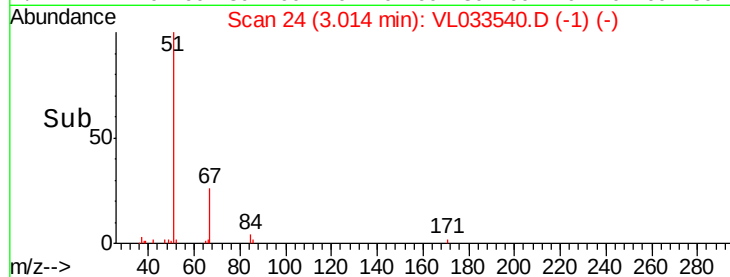
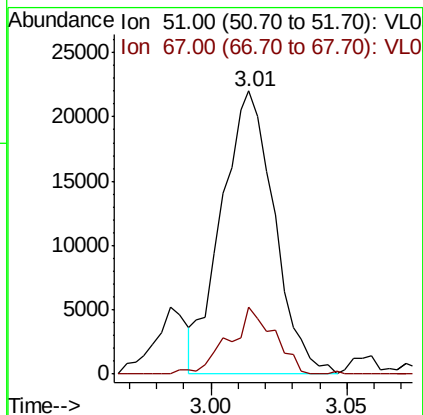
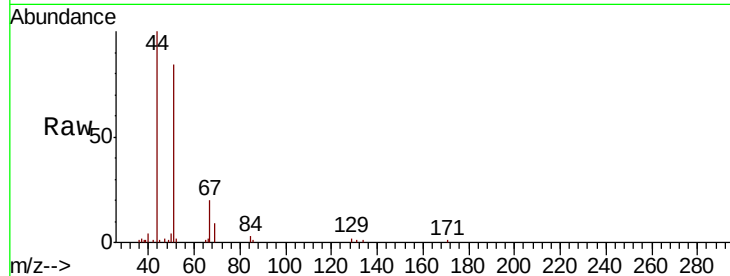
Ion Ratio Lower Upper

51 100

67 20.4 15.7 23.5

Manual Integrations
APPROVED

MMDadoda
4/8/2019 3:22:20 AM



#4

Chloromethane

Concen: 0.470 ppbv

RT: 3.17 min Scan# 73

Delta R.T. 0.00 min

Lab File: VL033540.D

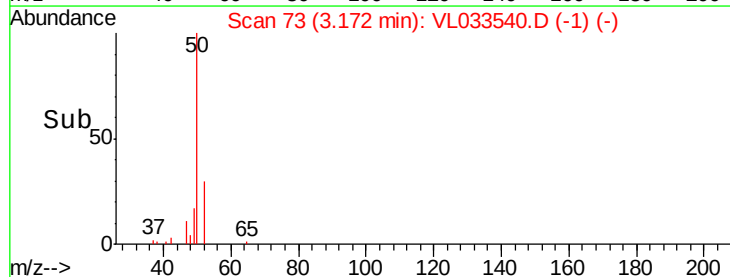
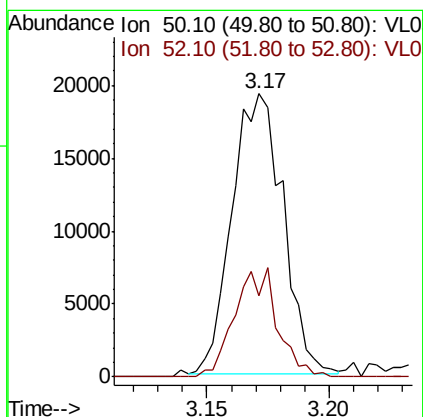
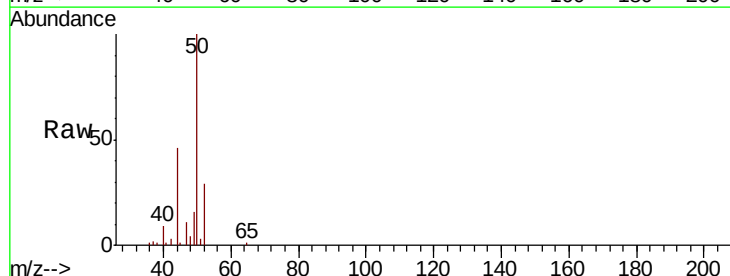
Acq: 4 Apr 2019 19:40

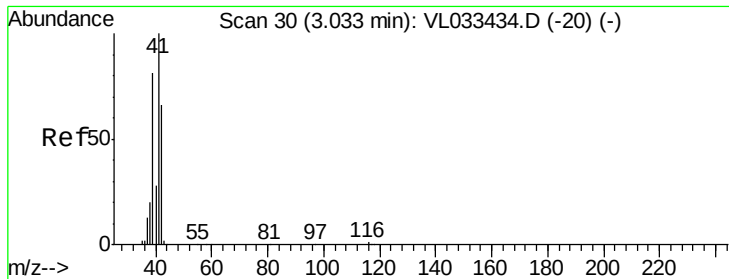
Tgt Ion: 50 Resp: 27929

Ion Ratio Lower Upper

50 100

52 28.8 25.0 37.6





#9

Propene

Concen: 0.518 ppbv

RT: 3.05 min Scan# 35

Delta R.T. 0.02 min

Lab File: VL033540.D

Acq: 4 Apr 2019 19:40

Instrument :

MSVOA_L

ClientSampleId :

A-3

Tot Ion: 41 Resp: 24430

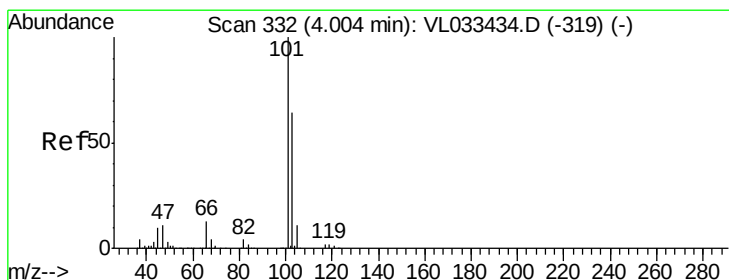
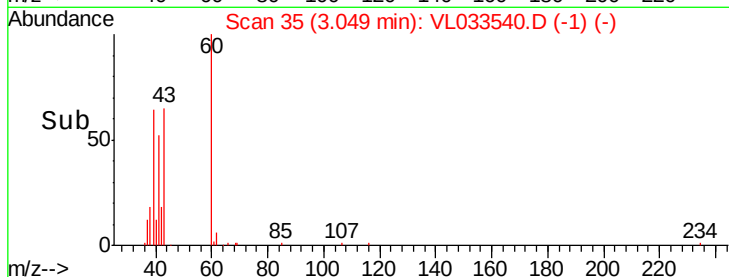
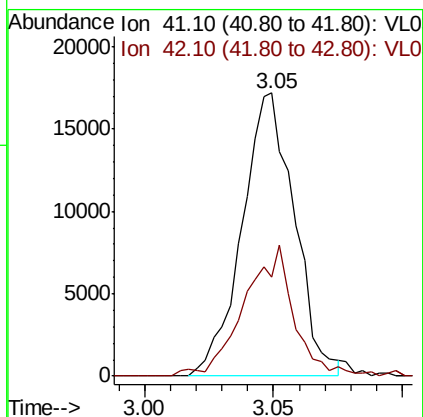
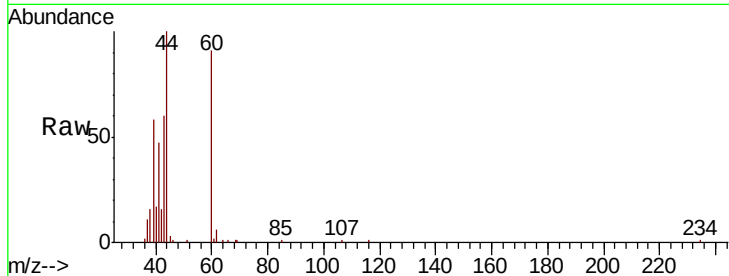
Ion Ratio Lower Upper

41 100

42 44.2 53.9 80.9#

Manual Integrations
APPROVED

MMDadoda
4/8/2019 3:22:20 AM



#11

Trichlorofluoromethane

Concen: 0.223 ppbv

RT: 4.00 min Scan# 332

Delta R.T. -0.00 min

Lab File: VL033540.D

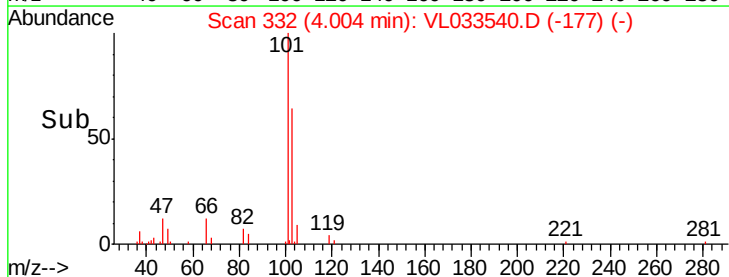
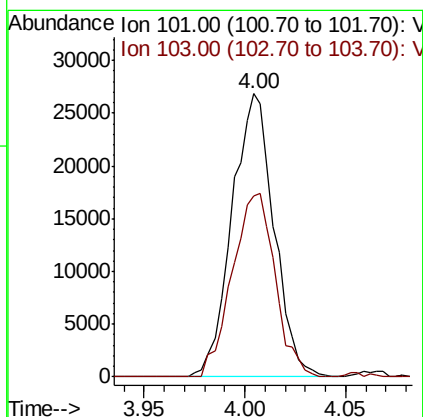
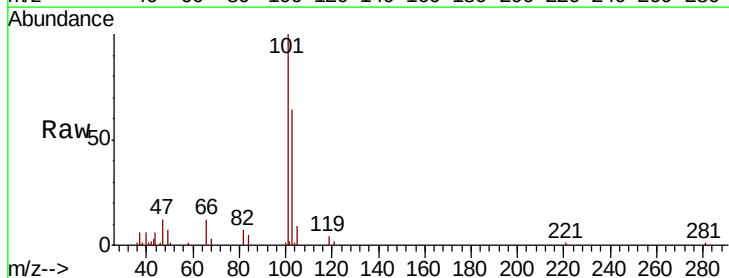
Acq: 4 Apr 2019 19:40

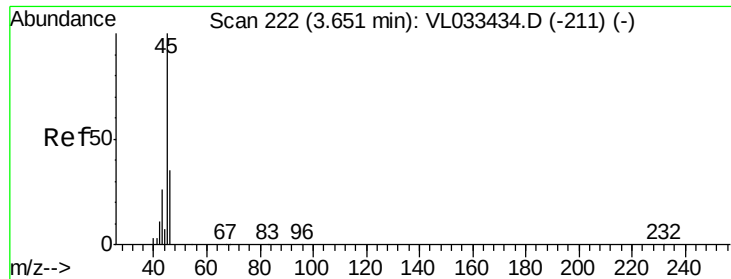
Tgt Ion: 101 Resp: 39120

Ion Ratio Lower Upper

101 100

103 62.5 51.3 76.9





#13

Ethanol

Concen: 39.857 ppbv

RT: 3.65 min Scan# 223

Delta R.T. 0.00 min

Lab File: VL033540.D

Acq: 4 Apr 2019 19:40

Instrument :

MSVOA_L

ClientSampleId :

A-3

Tot Ion: 45 Resp: 486135

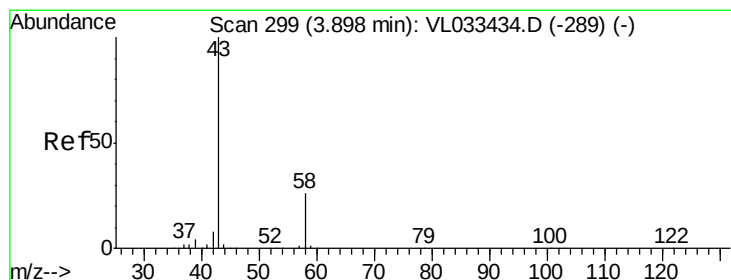
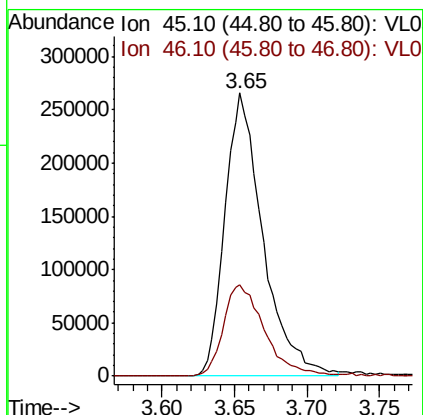
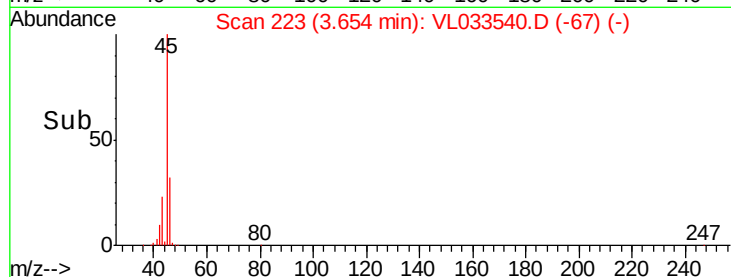
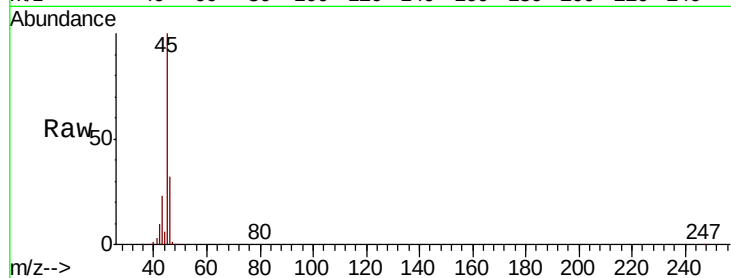
Ion Ratio Lower Upper

45 100

46 35.3 25.4 101.8

Manual Integrations
APPROVED

MMDadoda
4/8/2019 3:22:20 AM



#15

Acetone

Concen: 3.312 ppbv

RT: 3.90 min Scan# 300

Delta R.T. 0.00 min

Lab File: VL033540.D

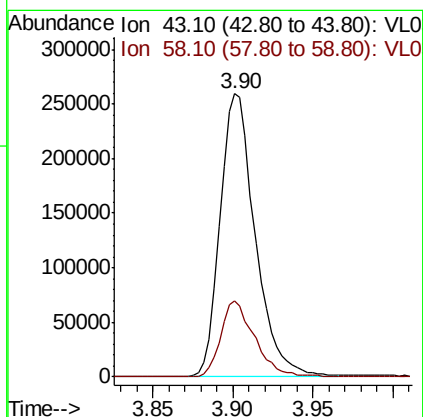
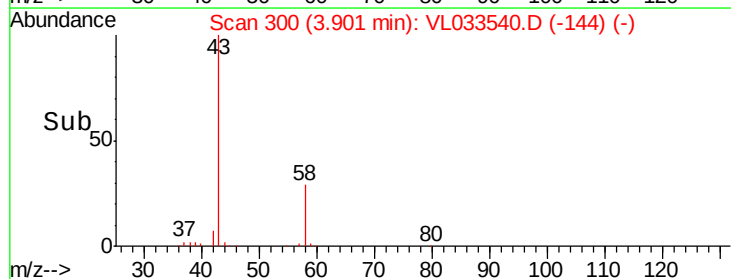
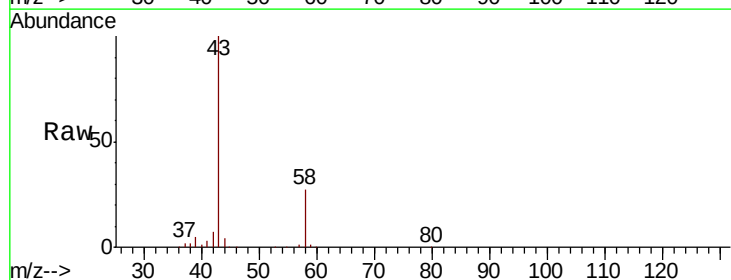
Acq: 4 Apr 2019 19:40

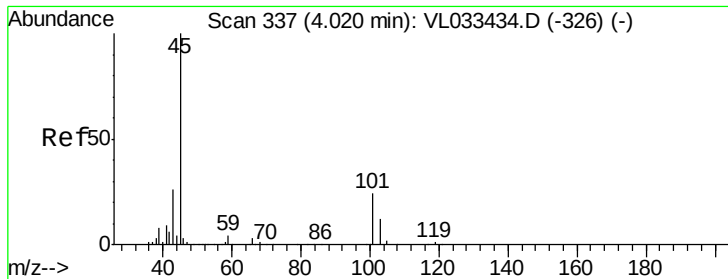
Tgt Ion: 43 Resp: 388185

Ion Ratio Lower Upper

43 100

58 26.4 20.5 30.7





#19

Isopropyl Alcohol

Concen: 0.376 ppbv

RT: 4.04 min Scan# 344

Delta R.T. 0.02 min

Lab File: VL033540.D

Acq: 4 Apr 2019 19:40

Instrument :

MSVOA_L

ClientSampled :

A-3

Tot Ion: 45 Resp: 27878

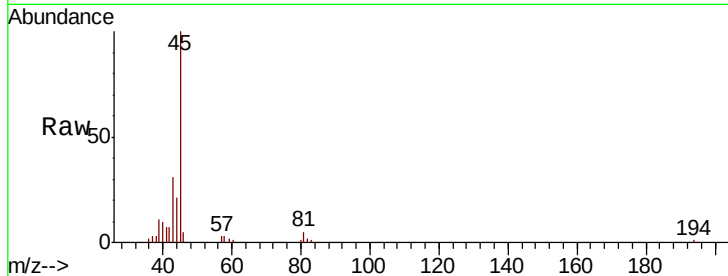
Ion Ratio Lower Upper

45 100

58 364.7 1.4 2.2#

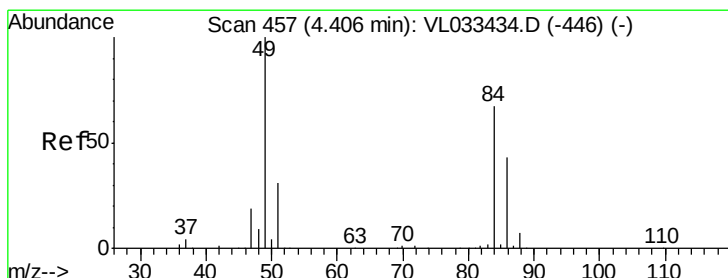
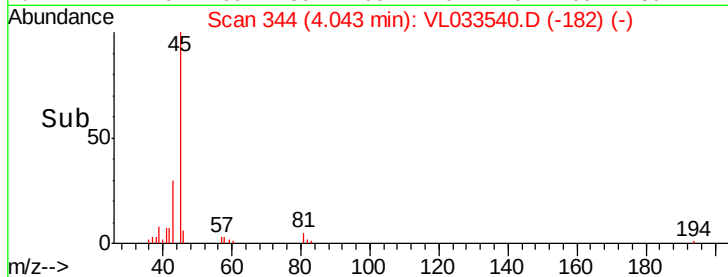
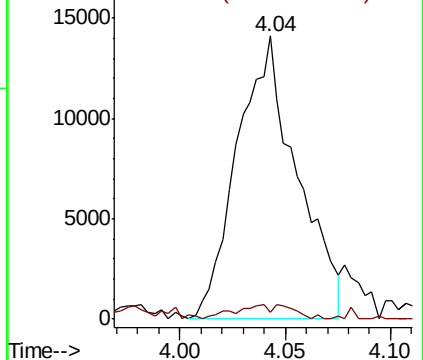
Manual Integrations
APPROVED

MMDadoda
4/8/2019 3:22:20 AM



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 10.464 ppbv

RT: 4.41 min Scan# 457

Delta R.T. -0.00 min

Lab File: VL033540.D

Acq: 4 Apr 2019 19:40

Tgt Ion: 84 Resp: 520700

Ion Ratio Lower Upper

84 100

49 148.0 120.0 180.0

51 44.8 36.7 55.1

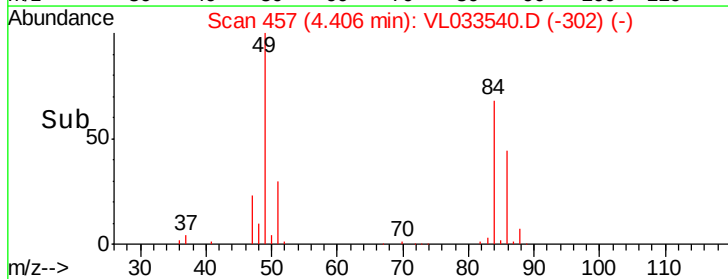
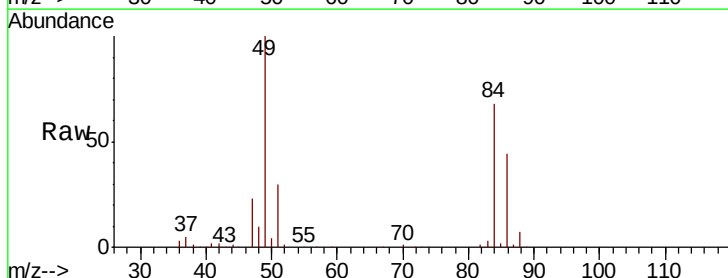
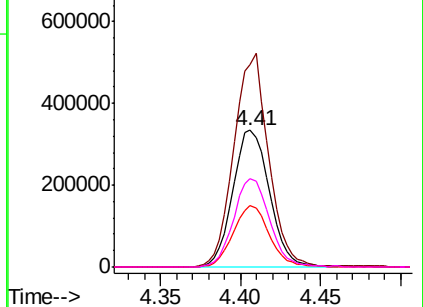
86 65.2 51.9 77.9

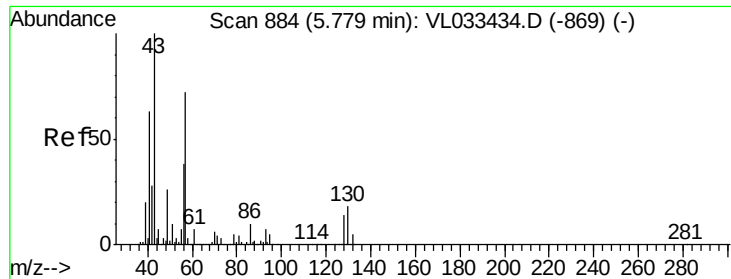
Abundance Ion 84.00 (83.70 to 84.70): VL0

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





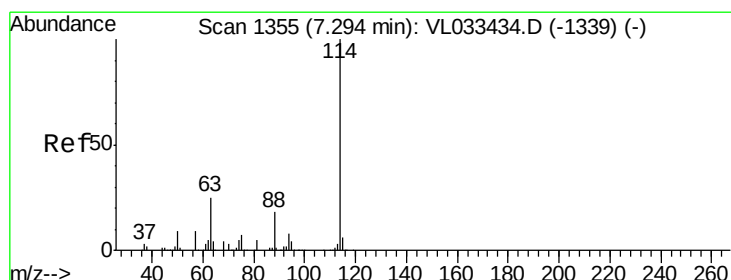
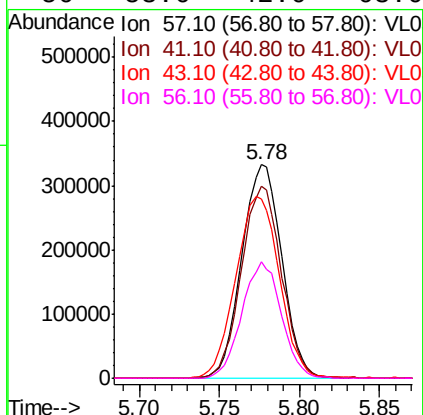
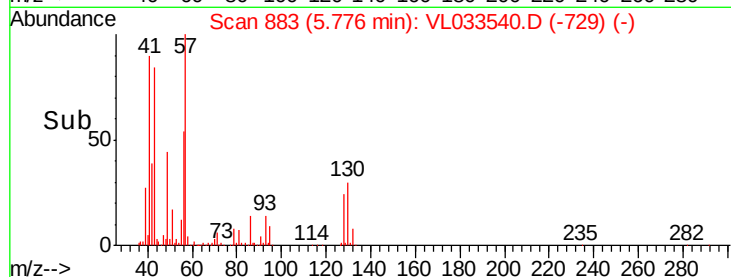
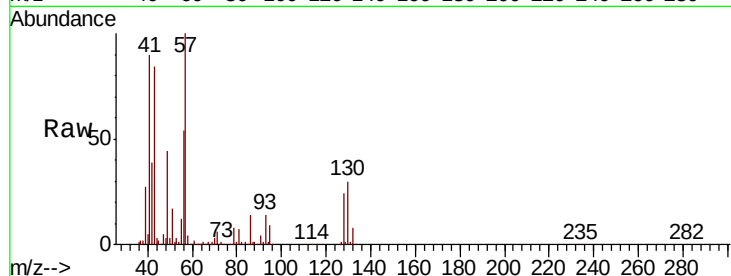
#26
Hexane
Concen: 5.861 ppbv
RT: 5.78 min Scan# 883
Delta R.T. -0.00 min
Lab File: VL033540.D
Acq: 4 Apr 2019 19:40

Instrument :
MSVOA_L
ClientSampled :
A-3

Tot Ion	57	Resp	566797
Ion	Ratio	Lower	Upper
57	100		
41	90.8	70.7	106.1
43	93.6	182.6	274.0#
56	53.6	42.0	63.0

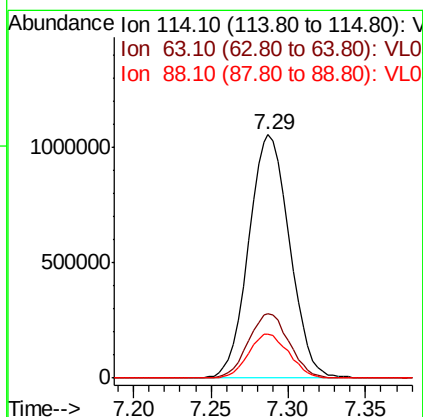
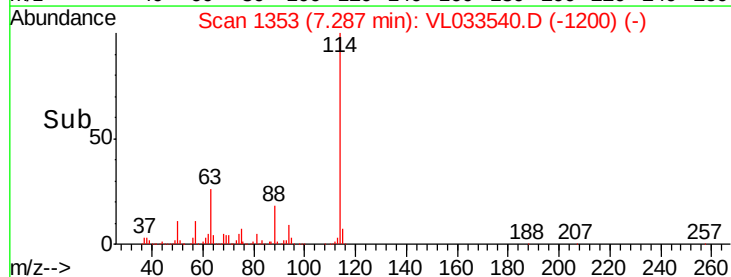
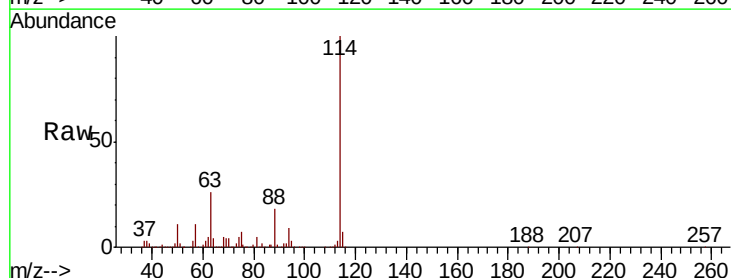
Manual Integrations
APPROVED

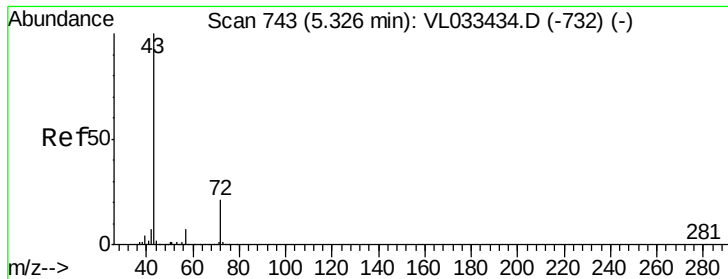
MMDadoda
4/8/2019 3:22:20 AM



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.29 min Scan# 1353
Delta R.T. -0.01 min
Lab File: VL033540.D
Acq: 4 Apr 2019 19:40

Tgt Ion	114	Resp	1940474
Ion	Ratio	Lower	Upper
114	100		
63	26.6	21.5	32.3
88	18.1	14.5	21.7





#34

2-Butanone

Concen: 0.263 ppbv

RT: 5.34 min Scan# 746

Delta R.T. 0.01 min

Lab File: VL033540.D

Acq: 4 Apr 2019 19:40

Instrument :

MSVOA_L

ClientSampleId :

A-3

Tot Ion: 43 Resp: 30673

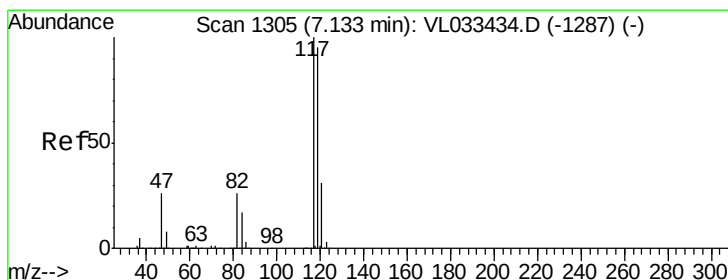
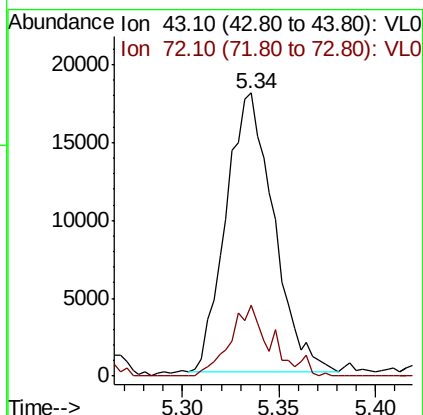
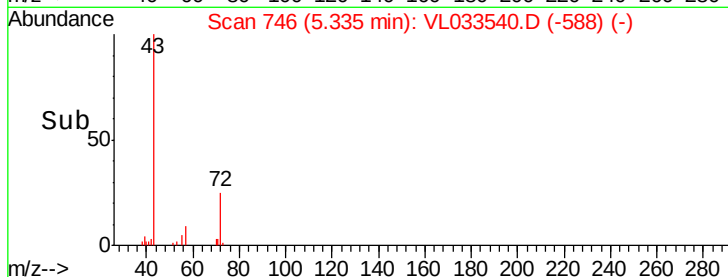
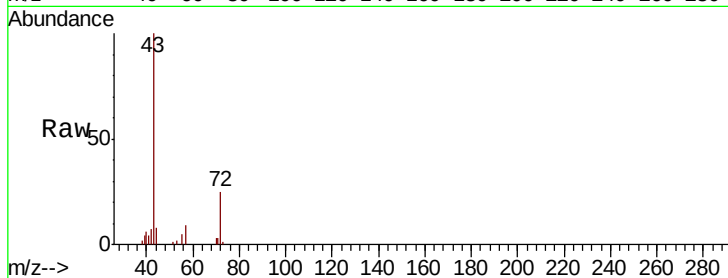
Ion Ratio Lower Upper

43 100

72 22.1 17.4 26.2

Manual Integrations
APPROVED

MMDadoda
4/8/2019 3:22:20 AM



#35

Carbon Tetrachloride

Concen: 0.077 ppbv m

RT: 7.13 min Scan# 1303

Delta R.T. -0.01 min

Lab File: VL033540.D

Acq: 4 Apr 2019 19:40

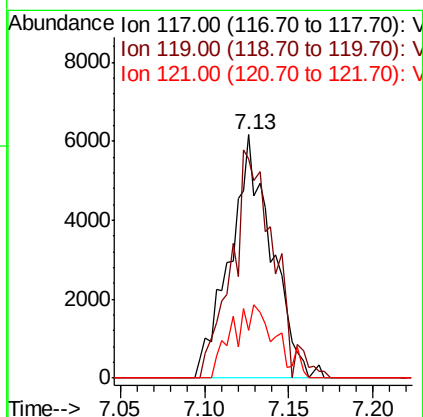
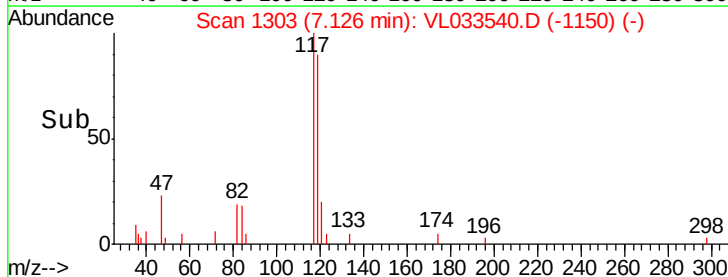
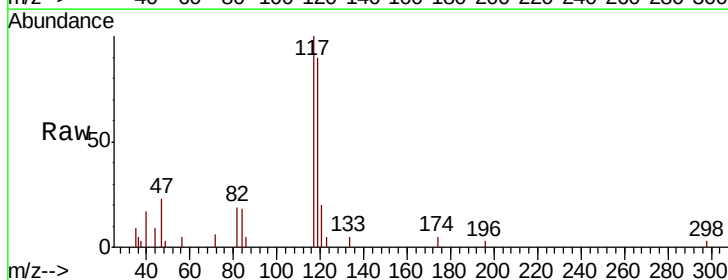
Tgt Ion: 117 Resp: 10600

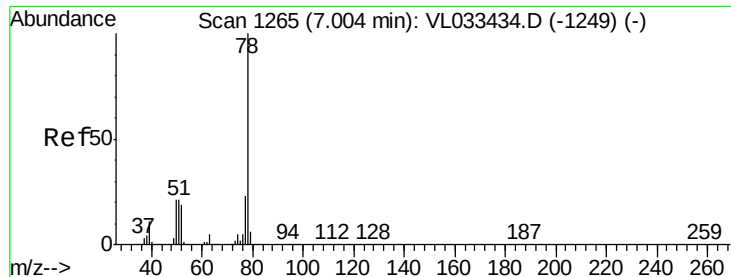
Ion Ratio Lower Upper

117 100

119 89.9 75.8 113.8

121 19.8 24.7 37.1#





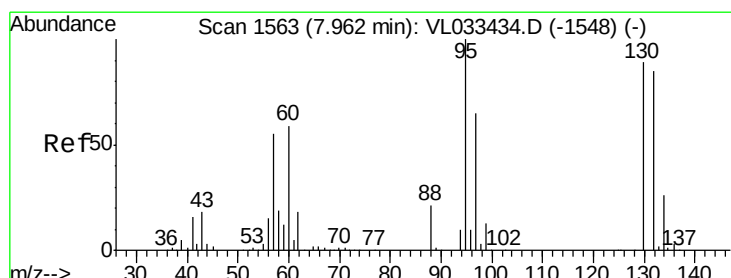
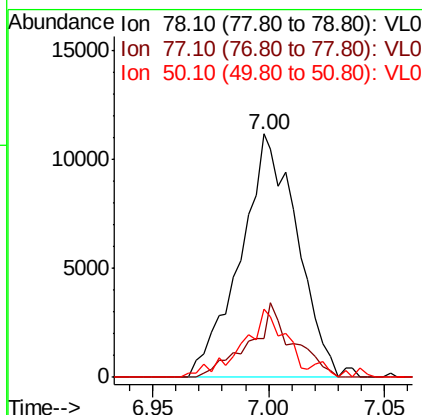
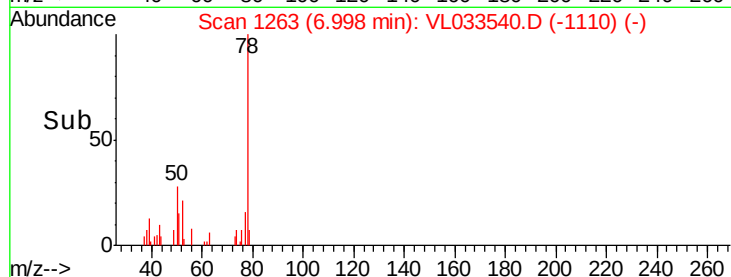
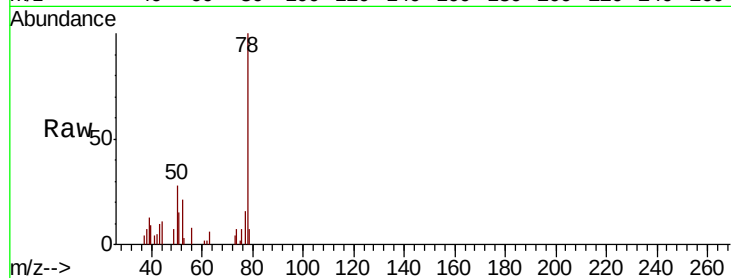
#36
Benzene
Concen: 0.116 ppbv
RT: 7.00 min Scan# 1263
Delta R.T. -0.01 min
Lab File: VL033540.D
Acq: 4 Apr 2019 19:40

Instrument :
MSVOA_L
ClientSampleId :
A-3

Tot Ion	Ratio	Lower	Upper
78	100		
77	15.9	18.1	27.1#
50	28.0	16.7	25.1#

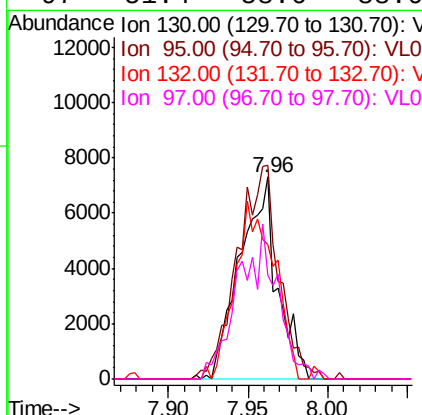
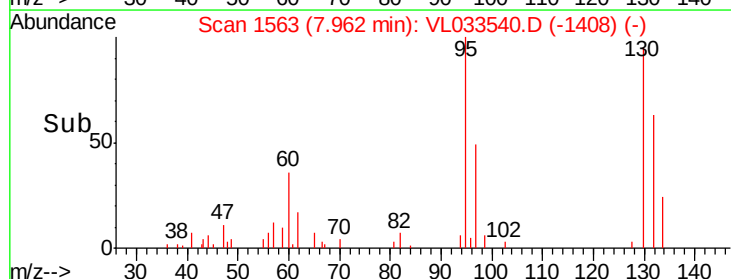
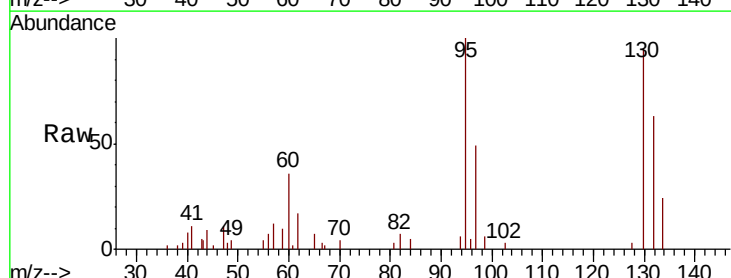
Manual Integrations
APPROVED

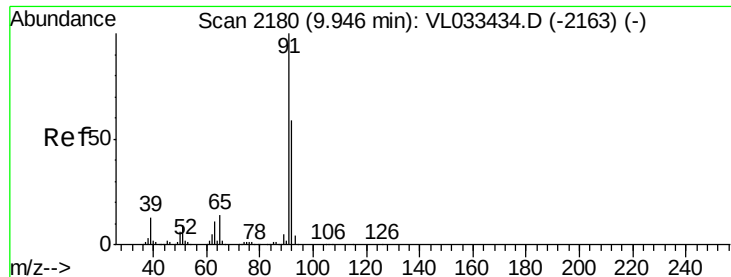
MMDadoda
4/8/2019 3:22:20 AM



#38
Trichloroethene
Concen: 0.195 ppbv m
RT: 7.96 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VL033540.D
Acq: 4 Apr 2019 19:40

Tgt Ion	Ratio	Lower	Upper
130	100		
95	105.7	89.8	134.8
132	66.8	76.6	115.0#
97	51.4	58.6	88.0#





#53

Toluene

Concen: 5.676 ppbv

RT: 9.94 min Scan# 2178

Delta R.T. -0.01 min

Lab File: VL033540.D

Acq: 4 Apr 2019 19:40

Instrument :

MSVOA_L

ClientSampleId :

A-3

Tot Ion: 91 Resp: 1073944

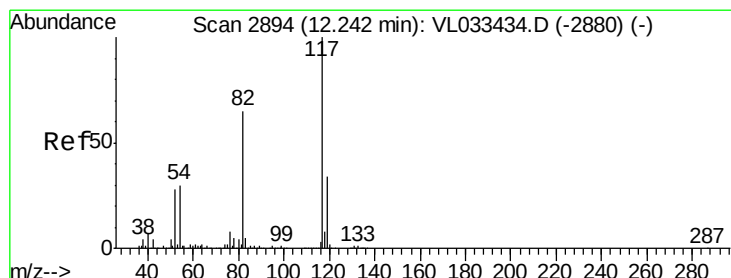
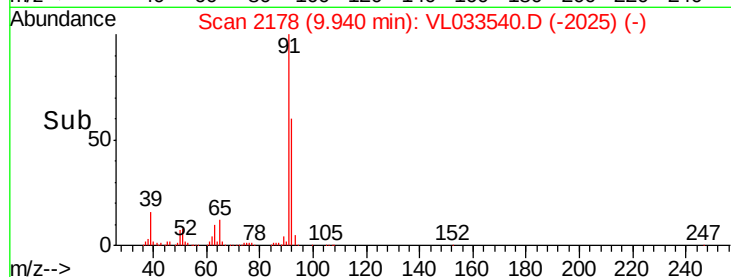
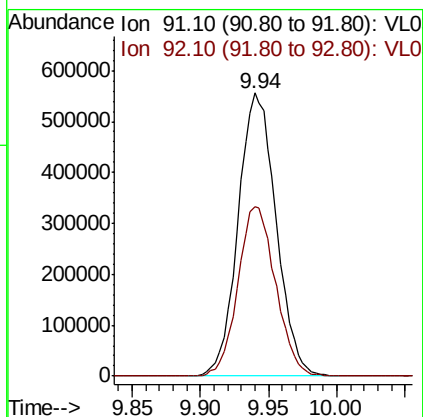
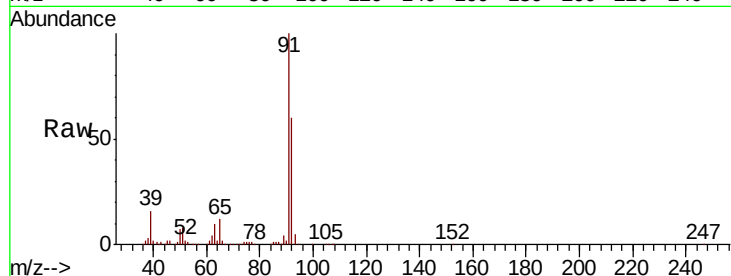
Ion Ratio Lower Upper

91 100

92 59.5 47.4 71.0

Manual Integrations
APPROVED

MMDadoda
4/8/2019 3:22:20 AM



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2892

Delta R.T. -0.01 min

Lab File: VL033540.D

Acq: 4 Apr 2019 19:40

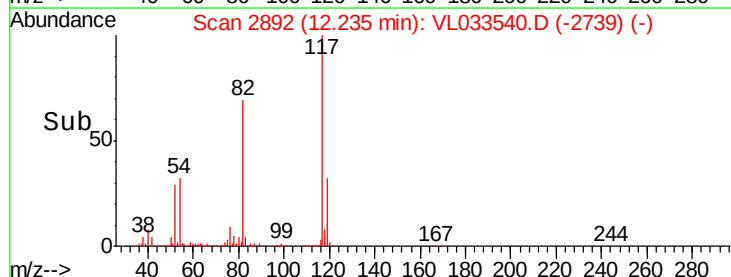
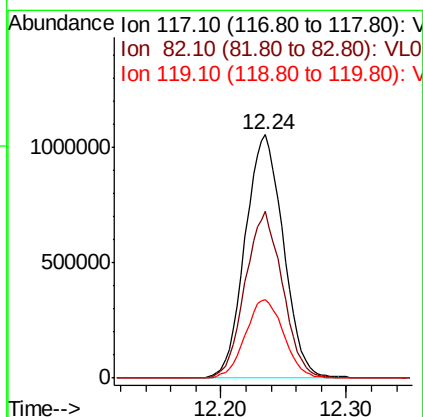
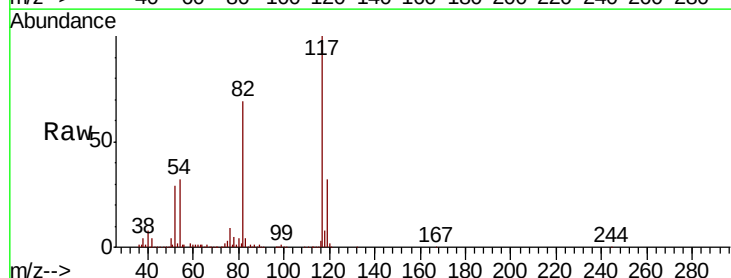
Tgt Ion: 117 Resp: 2231508

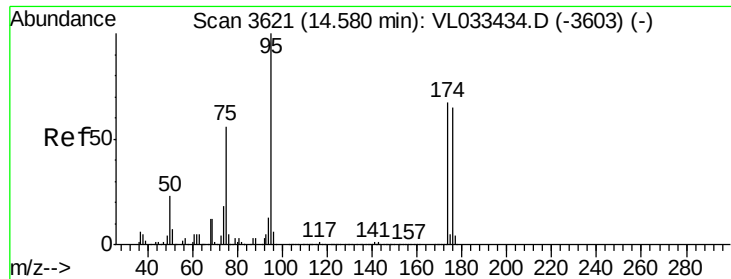
Ion Ratio Lower Upper

117 100

82 67.3 51.5 77.3

119 32.5 25.5 38.3





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.146 ppbv
 RT: 14.57 min Scan# 3619
 Delta R.T. -0.01 min
 Lab File: VL033540.D
 Acq: 4 Apr 2019 19:40

Instrument :
 MSVOA_L
 ClientSampleId :
 A-3

Tot Ion: 95 Resp: 1774886
 Ion Ratio Lower Upper
 95 100
 174 67.2 52.9 79.3
 175 4.8 3.8 5.6

Manual Integrations
 APPROVED

MMDadoda
 4/8/2019 3:22:20 AM

