

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101118\
 Data File : VL032604.D
 Acq On : 11 Oct 2018 14:43
 Operator : SY/AP
 Sample : J5316-01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-2

Manual Integrations
 APPROVED

MMDadoda
 10/12/2018 2:07:29 PM

Quant Time: Oct 12 12:06:52 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Oct 08 2018
 QLast Update : Mon Oct 01 06:49:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.79	49	1399632	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.32	114	2912902	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.27	117	3104174	10.00	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.61	95	2283830	9.76	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.09	85	30500	0.236	ppbv #	85
4) Chloromethane	3.18	50	39427m	0.581	ppbv	
9) Propene	3.05	41	102583	2.031	ppbv	91
11) Trichlorofluoromethane	4.02	101	41624	0.270	ppbv	89
13) Ethanol	3.67	45	52383	3.451	ppbv	92
15) Acetone	3.91	43	7806963	63.545	ppbv	95
17) tert-Butyl alcohol	4.39	59	57969m	3.755	ppbv	
20) Methylene Chloride	4.43	84	52851	0.888	ppbv	96
26) Hexane	5.80	57	62714	0.466	ppbv #	43
34) 2-Butanone	5.36	43	234057	1.349	ppbv	99
35) Carbon Tetrachloride	7.17	117	14484m	0.072	ppbv	
36) Benzene	7.03	78	37644m	0.160	ppbv	
52) Tetrachloroethene	11.40	164	5181m	0.063	ppbv	
53) Toluene	9.98	91	408749	1.425	ppbv	98
58) Ethyl Benzene	12.89	91	52010m	0.138	ppbv	
59) m/p-Xylene	13.16	91	136740m	0.408	ppbv	
60) o-Xylene	13.88	91	45477m	0.139	ppbv	

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

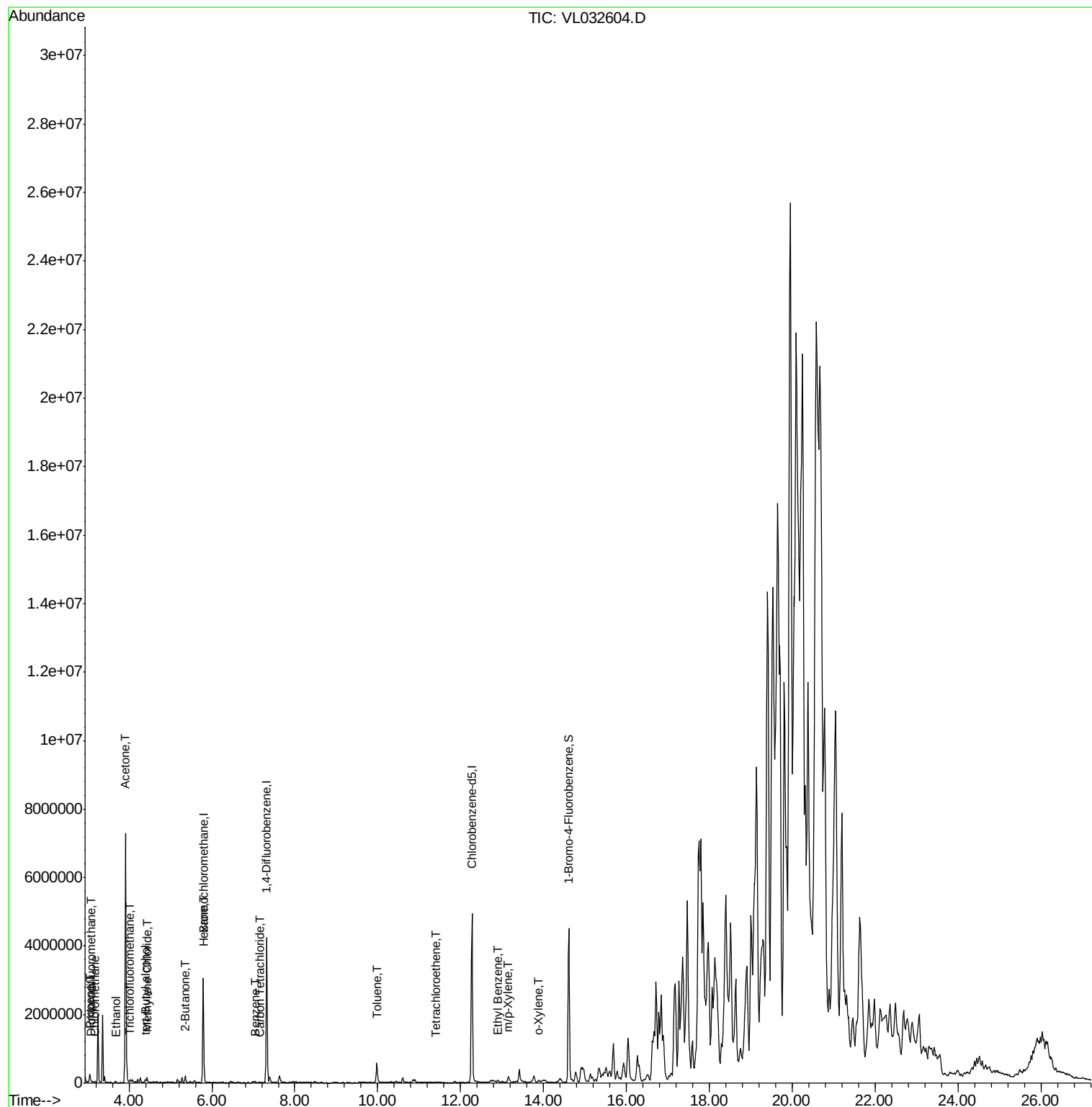
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL101118\
Data File : VL032604.D
Acq On : 11 Oct 2018 14:43
Operator : SY/AP
Sample : J5316-01
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

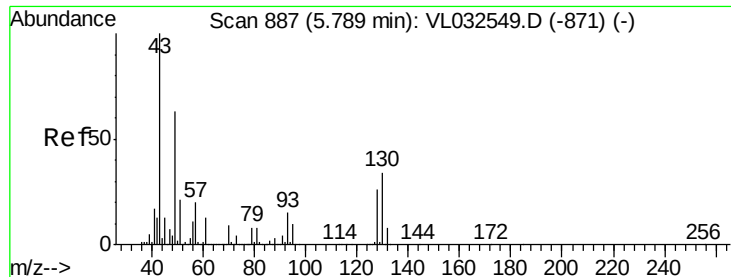
Instrument :
MSVOA_L
ClientSampleId :
SV-2

Manual Integrations
APPROVED

MMDadoda
10/12/2018 2:07:29 PM

Quant Time: Oct 12 12:06:52 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL092418AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Oct
QLast Update : Mon Oct 01 06:49:26 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.79 min Scan# 887

Delta R.T. -0.02 min

Lab File: VL032604.D

Acq: 11 Oct 2018 14:43

Instrument :

MSVOA_L

ClientSampleId :

SV-2

Tot Ion: 49 Resp: 1399632

Ion Ratio Lower Upper

49 100

128 44.9 20.7 62.1

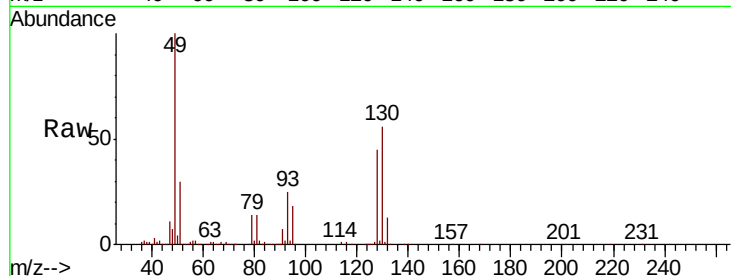
130 57.0 26.6 79.7

Manual Integrations

APPROVED

MMDadoda

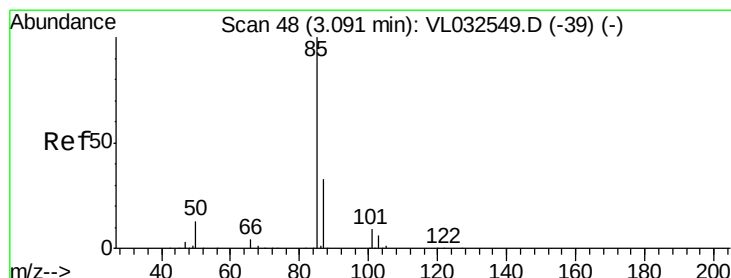
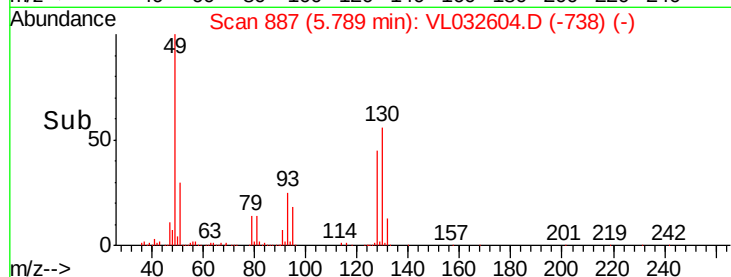
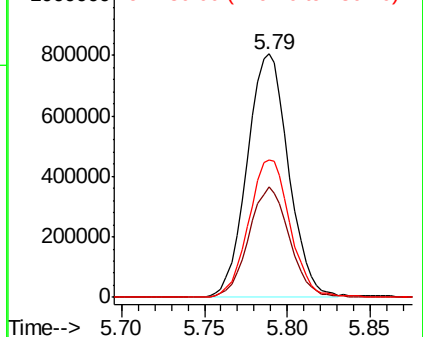
10/12/2018 2:07:29 PM



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: 0.236 ppbv

RT: 3.09 min Scan# 48

Delta R.T. -0.02 min

Lab File: VL032604.D

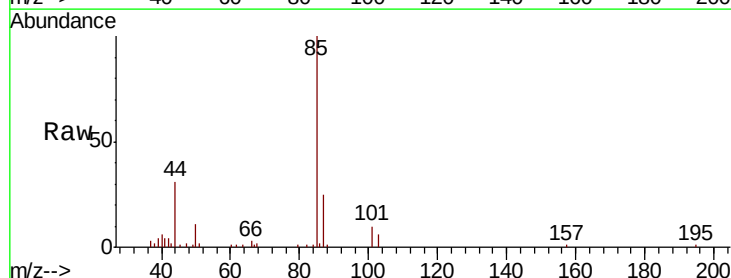
Acq: 11 Oct 2018 14:43

Tgt Ion: 85 Resp: 30500

Ion Ratio Lower Upper

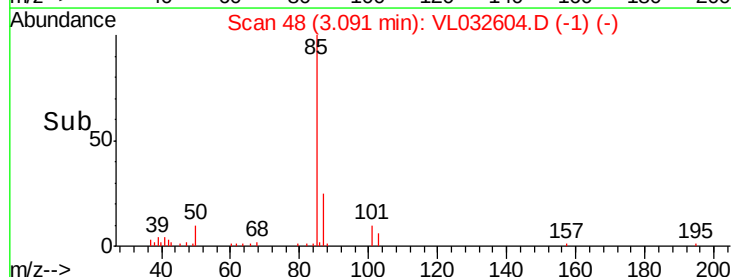
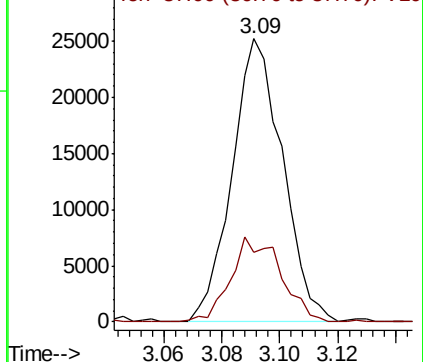
85 100

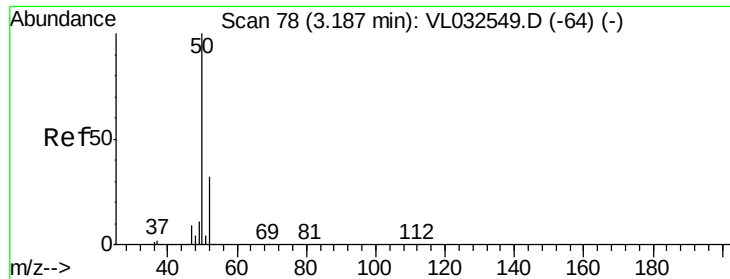
87 24.5 26.2 39.4#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#4

Chloromethane

Concen: 0.581 ppbv

RT: 3.18 min Scan# 77

Delta R.T. -0.02 min

Lab File: VL032604.D

Acq: 11 Oct 2018 14:43

Instrument :

MSVOA_L

ClientSampled :

SV-2

Tot Ion: 50 Resp: 39427

Ion Ratio Lower Upper

50 100

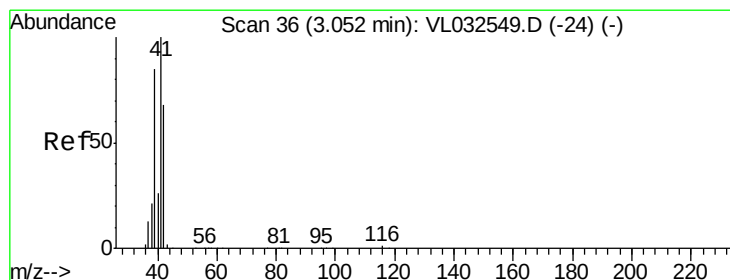
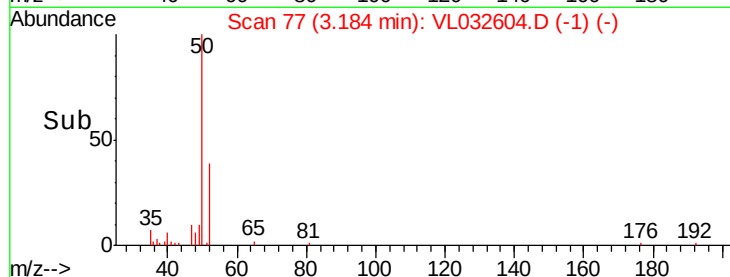
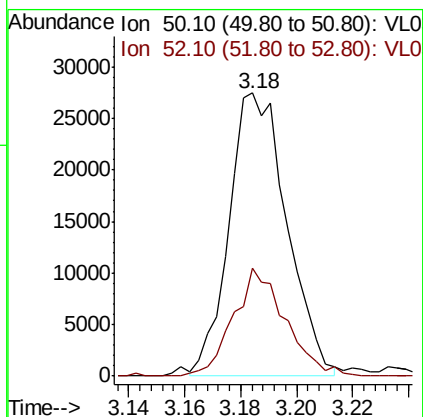
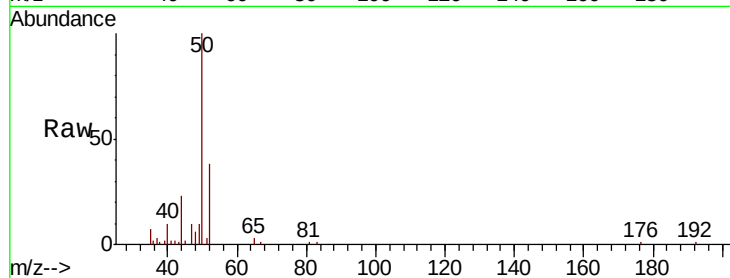
52 38.2 25.6 38.4

Manual Integrations

APPROVED

MMDadoda

10/12/2018 2:07:29 PM



#9

Propene

Concen: 2.031 ppbv

RT: 3.05 min Scan# 36

Delta R.T. -0.01 min

Lab File: VL032604.D

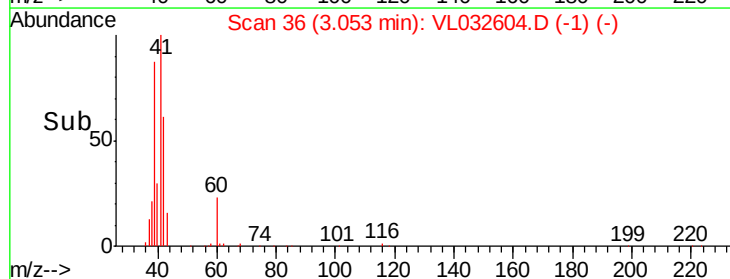
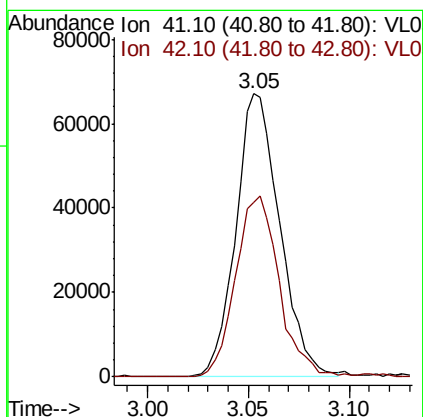
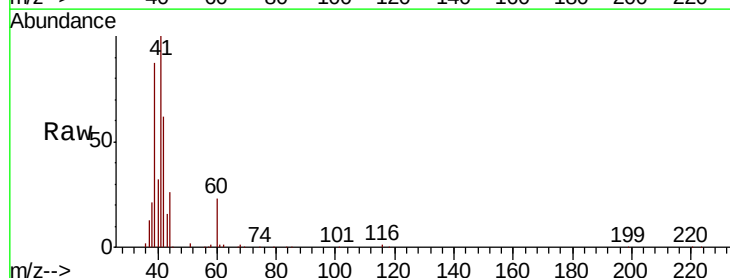
Acq: 11 Oct 2018 14:43

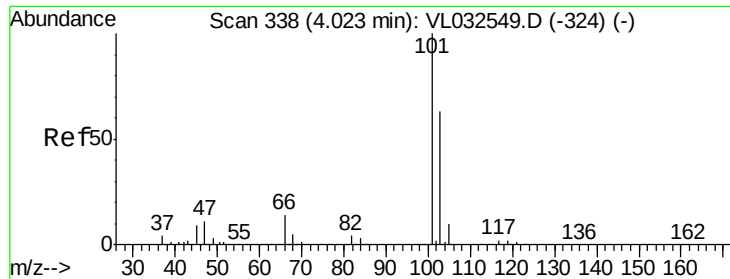
Tgt Ion: 41 Resp: 102583

Ion Ratio Lower Upper

41 100

42 63.4 56.6 84.8





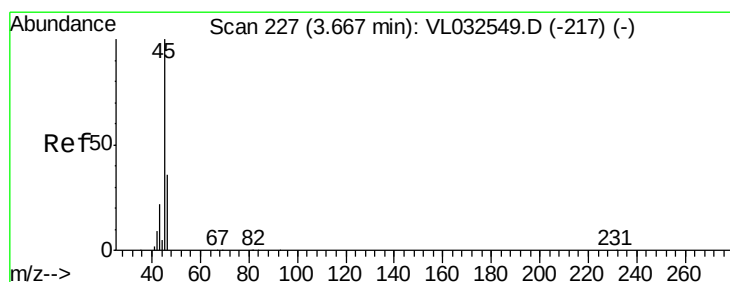
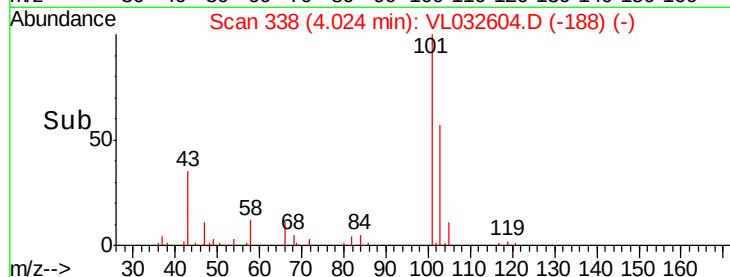
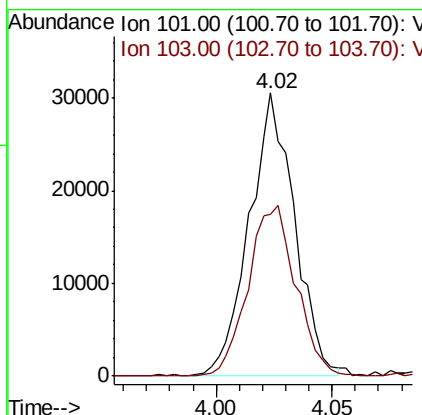
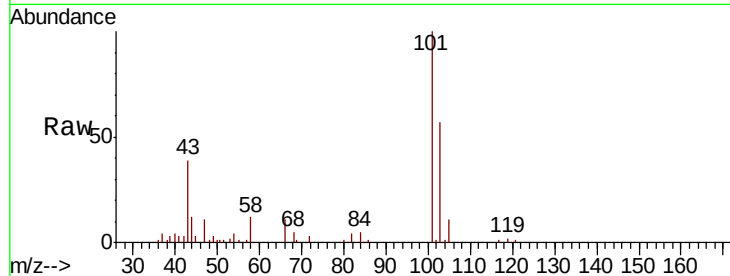
#11
Trichlorofluoromethane
Concen: 0.270 ppbv
RT: 4.02 min Scan# 338
Delta R.T. -0.02 min
Lab File: VL032604.D
Acq: 11 Oct 2018 14:43

Instrument :
MSVOA_L
ClientSampleId :
SV-2

Tot Ion:101 Resp: 41624
Ion Ratio Lower Upper
101 100
103 57.1 52.8 79.2

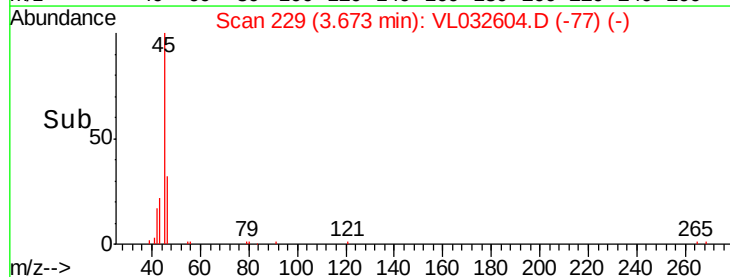
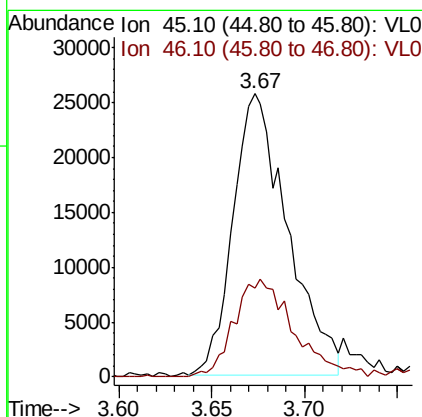
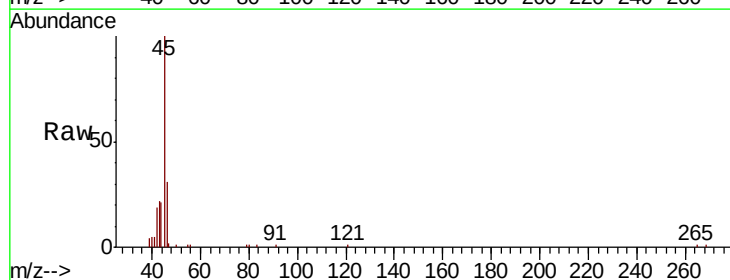
Manual Integrations
APPROVED

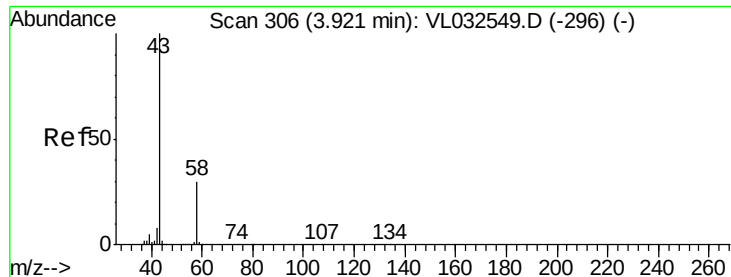
MMDadoda
10/12/2018 2:07:29 PM



#13
Ethanol
Concen: 3.451 ppbv
RT: 3.67 min Scan# 229
Delta R.T. -0.01 min
Lab File: VL032604.D
Acq: 11 Oct 2018 14:43

Tgt Ion: 45 Resp: 52383
Ion Ratio Lower Upper
45 100
46 39.9 14.2 56.8





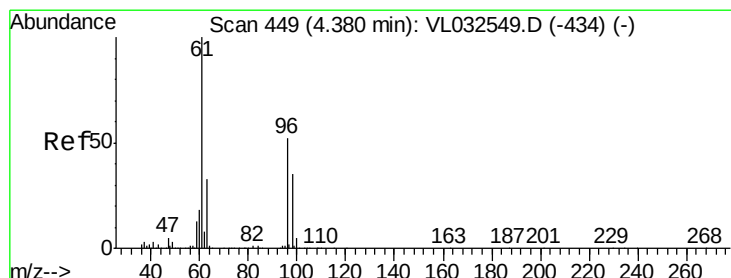
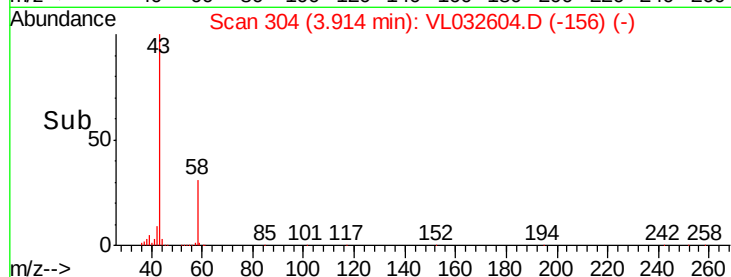
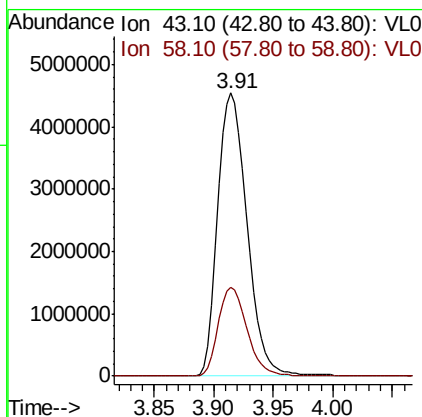
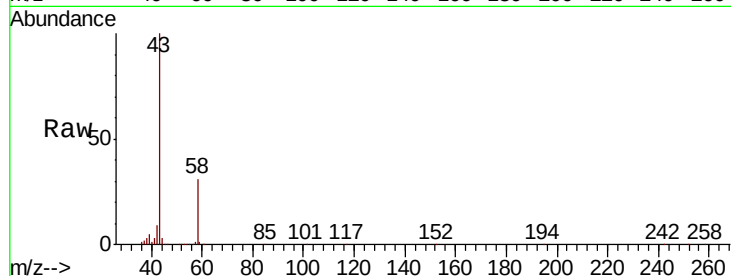
#15
Acetone
Concen: 63.545 ppbv
RT: 3.91 min Scan# 304
Delta R.T. -0.02 min
Lab File: VL032604.D
Acq: 11 Oct 2018 14:43

Instrument :
MSVOA_L
ClientSampled :
SV-2

Tot Ion: 43 Resp: 7806963
Ion Ratio Lower Upper
43 100
58 30.9 22.6 33.8

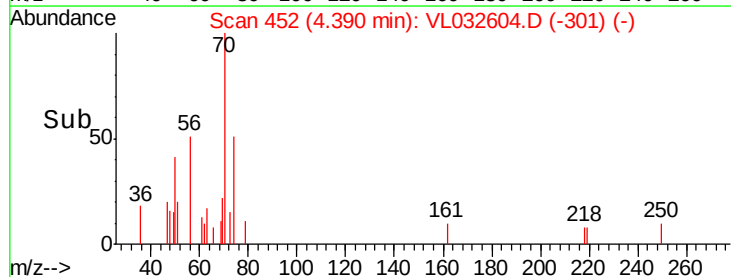
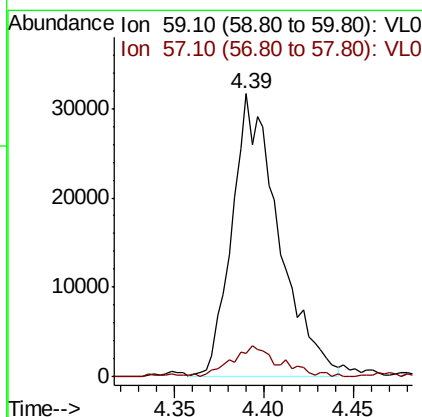
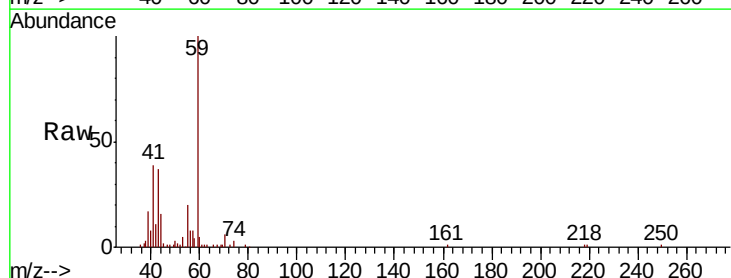
Manual Integrations
APPROVED

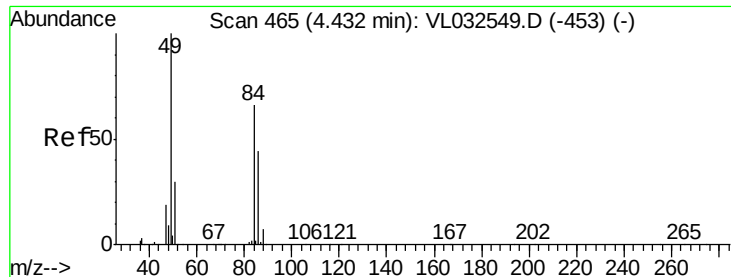
MMDadoda
10/12/2018 2:07:29 PM



#17
tert-Butyl alcohol
Concen: 3.755 ppbv m
RT: 4.39 min Scan# 452
Delta R.T. -0.01 min
Lab File: VL032604.D
Acq: 11 Oct 2018 14:43

Tgt Ion: 59 Resp: 57969
Ion Ratio Lower Upper
59 100
57 11.7 0.0 0.0#





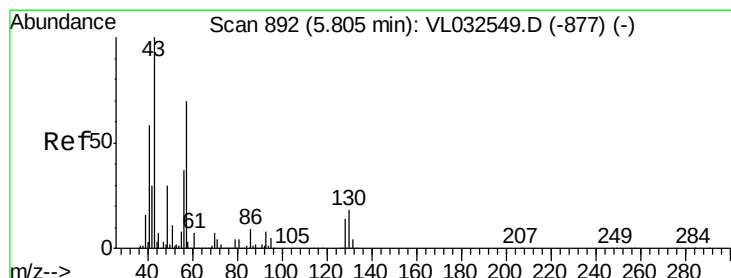
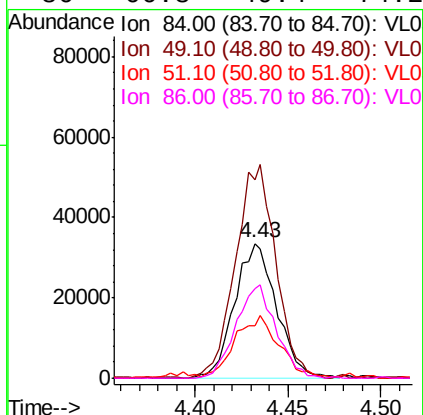
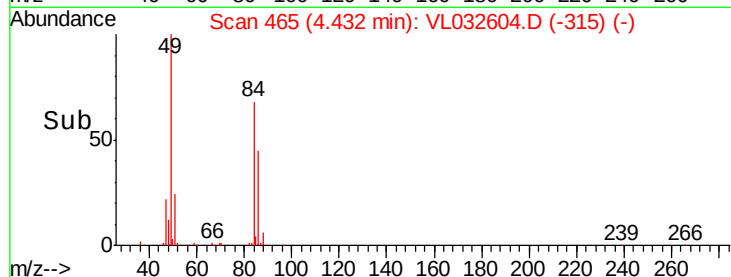
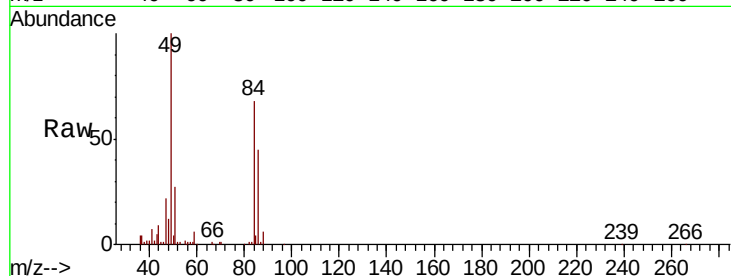
#20
Methvlene Chloride
Concen: 0.888 ppbv
RT: 4.43 min Scan# 465
Delta R.T. -0.02 min
Lab File: VL032604.D
Acq: 11 Oct 2018 14:43

Instrument :
MSVOA_L
ClientSampleId :
SV-2

Tot Ion:	84	Resp:	52851
Ion	Ratio	Lower	Upper
84	100		
49	147.7	119.1	178.7
51	38.3	35.2	52.8
86	66.8	49.4	74.2

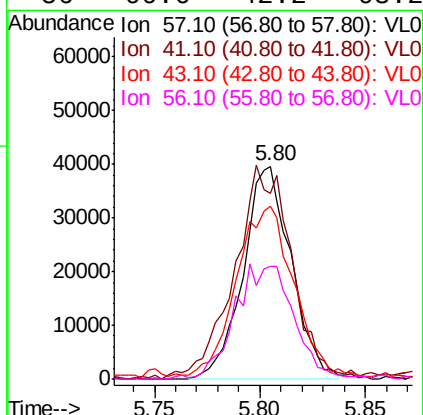
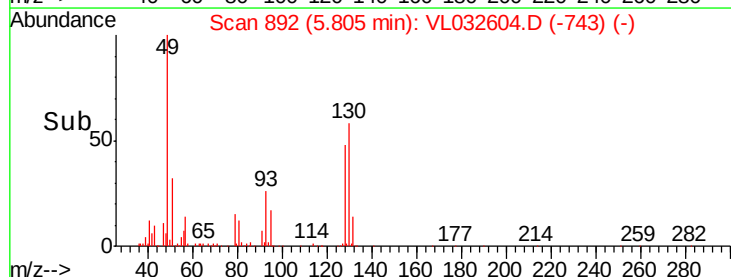
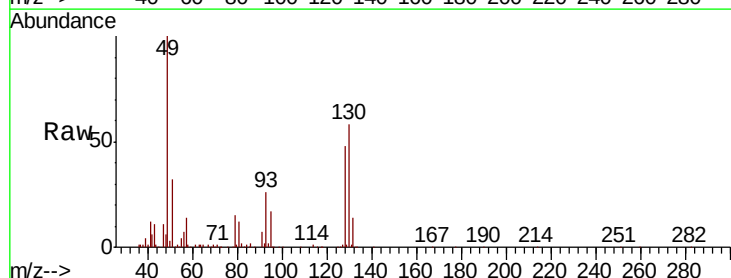
Manual Integrations
APPROVED

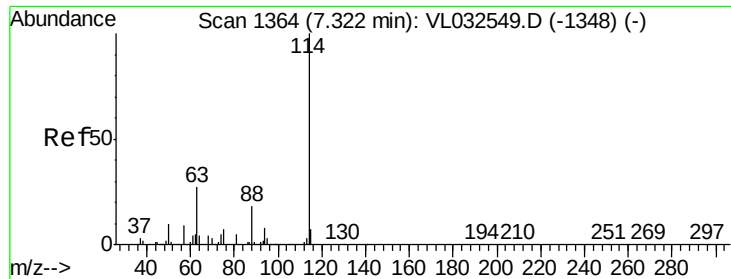
MMDadoda
10/12/2018 2:07:29 PM



#26
Hexane
Concen: 0.466 ppbv
RT: 5.80 min Scan# 892
Delta R.T. -0.02 min
Lab File: VL032604.D
Acq: 11 Oct 2018 14:43

Tgt Ion:	57	Resp:	62714
Ion	Ratio	Lower	Upper
57	100		
41	120.5	69.0	103.4#
43	98.8	172.1	258.1#
56	66.6	42.2	63.2#





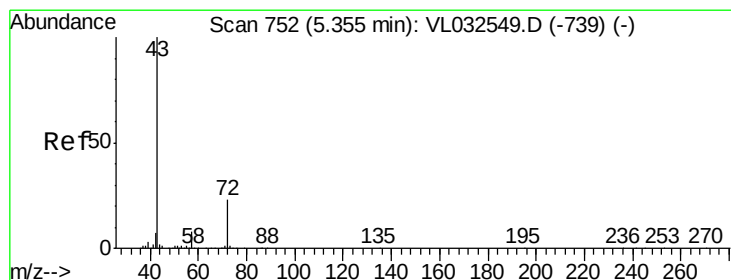
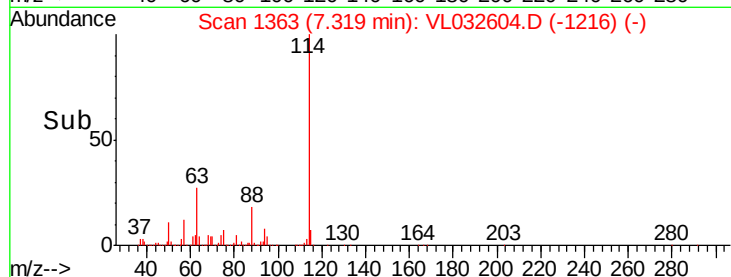
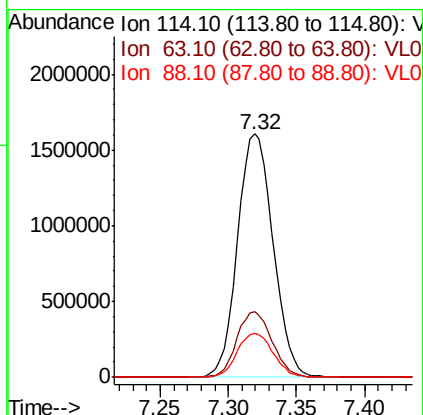
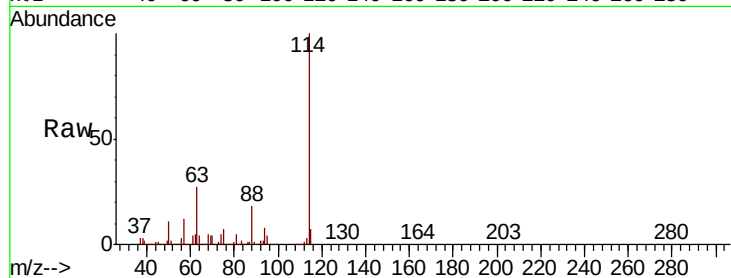
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.32 min Scan# 1363
 Delta R.T. -0.03 min
 Lab File: VL032604.D
 Acq: 11 Oct 2018 14:43

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-2

Tot Ion	Ratio	Lower	Upper
114	100		
63	26.9	22.2	33.4
88	18.3	15.0	22.4

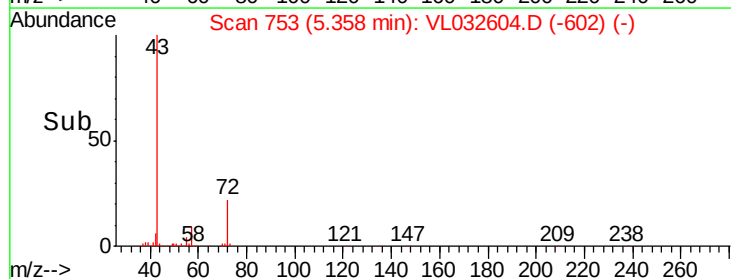
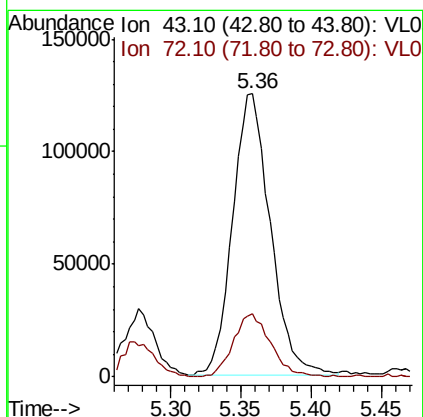
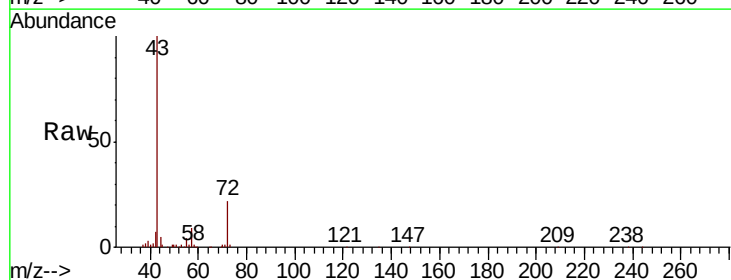
Manual Integrations
 APPROVED

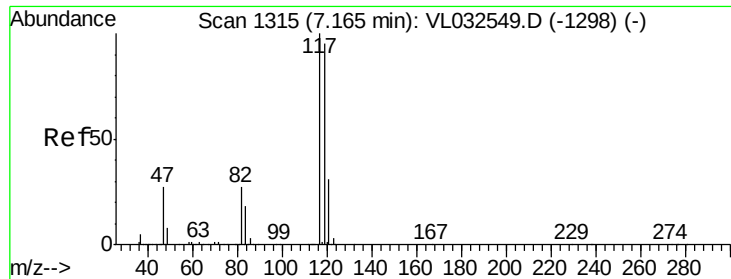
MMDadoda
 10/12/2018 2:07:29 PM



#34
 2-Butanone
 Concen: 1.349 ppbv
 RT: 5.36 min Scan# 753
 Delta R.T. -0.01 min
 Lab File: VL032604.D
 Acq: 11 Oct 2018 14:43

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.6	17.8	26.6





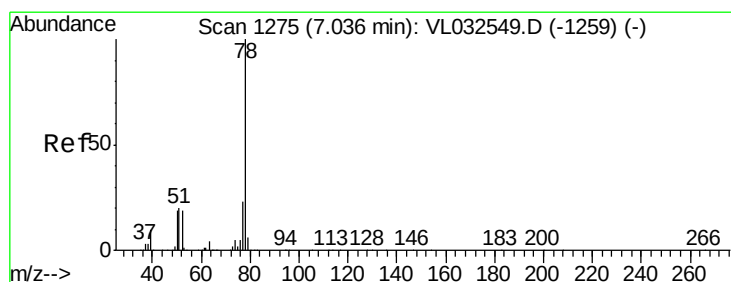
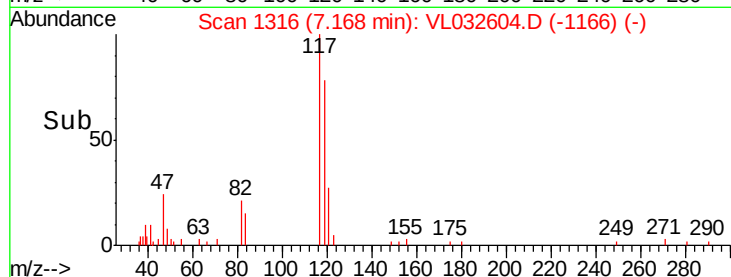
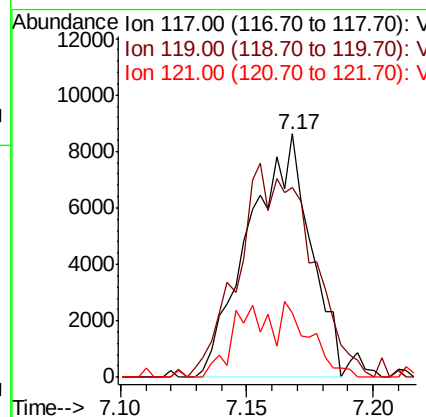
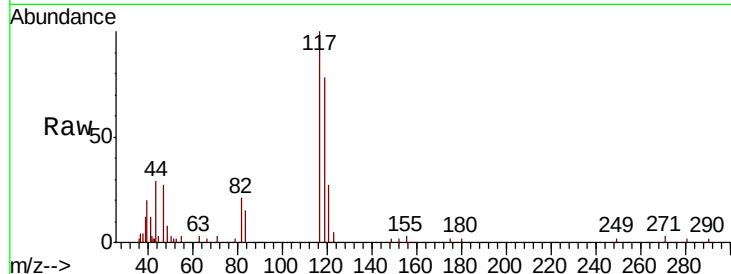
#35
Carbon Tetrachloride
Concen: 0.072 ppbv m
RT: 7.17 min Scan# 1316
Delta R.T. -0.02 min
Lab File: VL032604.D
Acq: 11 Oct 2018 14:43

Instrument :
MSVOA_L
ClientSampled :
SV-2

Tot Ion	Ratio	Lower	Upper
117	100		
119	77.9	76.6	115.0
121	26.6	24.6	36.8

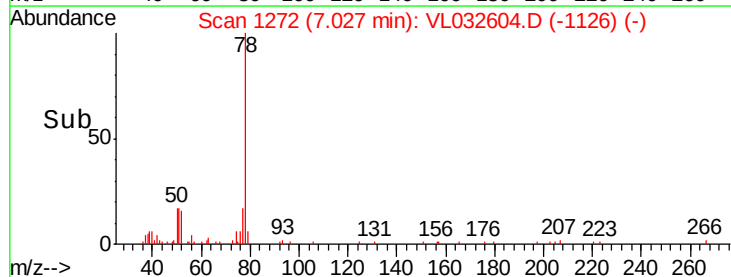
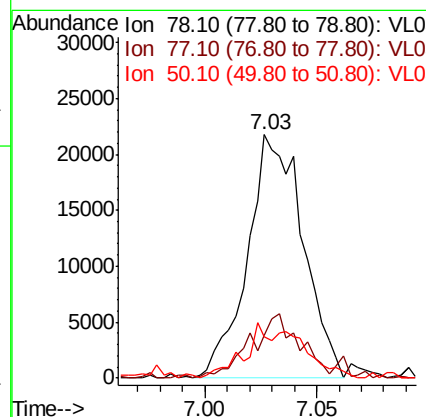
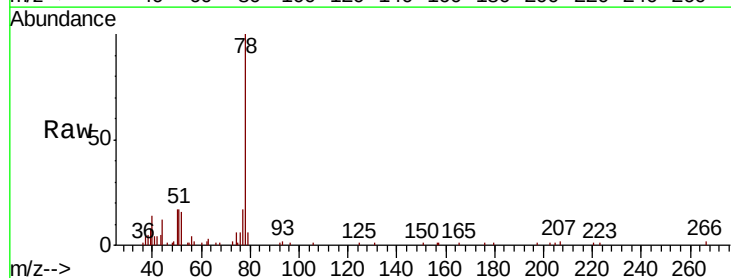
Manual Integrations
APPROVED

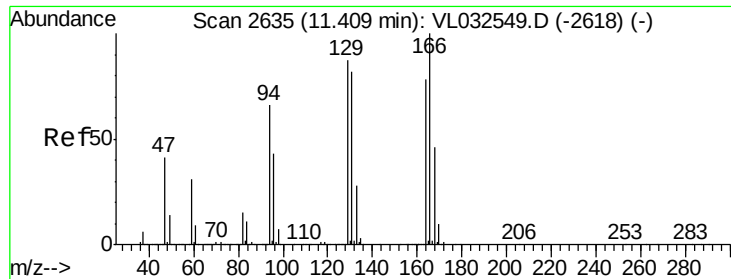
MMDadoda
10/12/2018 2:07:29 PM



#36
Benzene
Concen: 0.160 ppbv m
RT: 7.03 min Scan# 1272
Delta R.T. -0.03 min
Lab File: VL032604.D
Acq: 11 Oct 2018 14:43

Tgt Ion	Ratio	Lower	Upper
78	100		
77	17.4	18.4	27.6#
50	17.2	14.4	21.6





#52

Tetrachloroethene

Concen: 0.063 ppbv m

RT: 11.40 min Scan# 2633

Delta R.T. -0.03 min

Lab File: VL032604.D

Acq: 11 Oct 2018 14:43

Instrument :

MSVOA_L

ClientSampled :

SV-2

Tot Ion:164 Resp: 5181

Ion Ratio Lower Upper

164 100

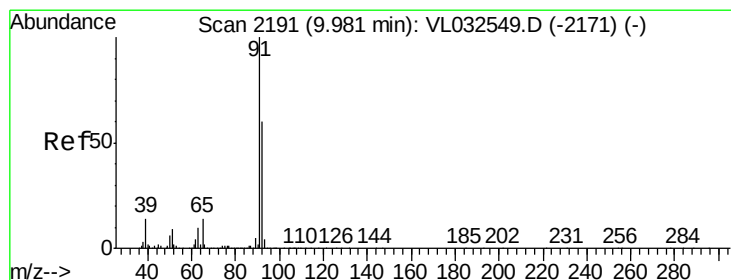
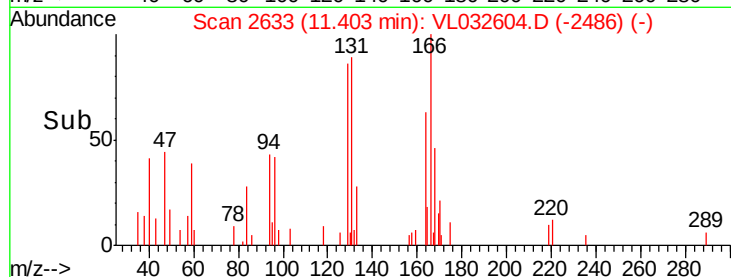
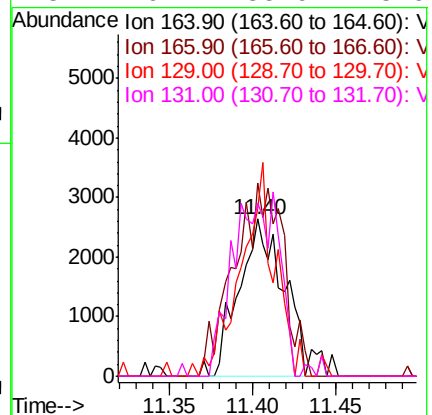
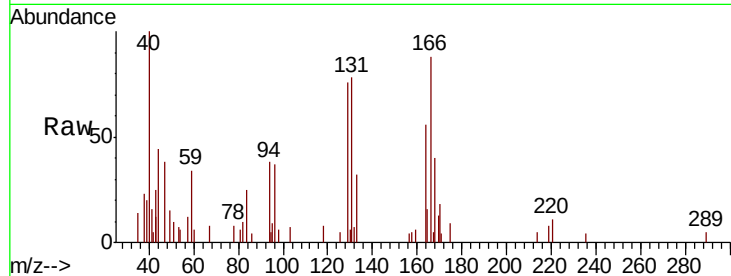
166 158.0 100.6 150.8#

129 136.6 89.9 134.9#

131 140.4 85.9 128.9#

Manual Integrations
APPROVED

MMDadoda
10/12/2018 2:07:29 PM



#53

Toluene

Concen: 1.425 ppbv

RT: 9.98 min Scan# 2190

Delta R.T. -0.03 min

Lab File: VL032604.D

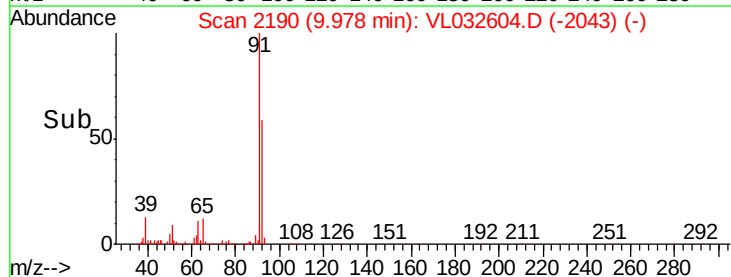
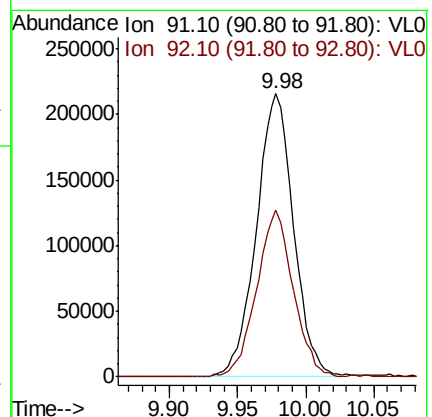
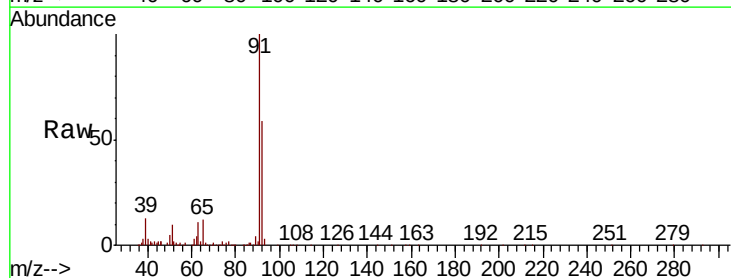
Acq: 11 Oct 2018 14:43

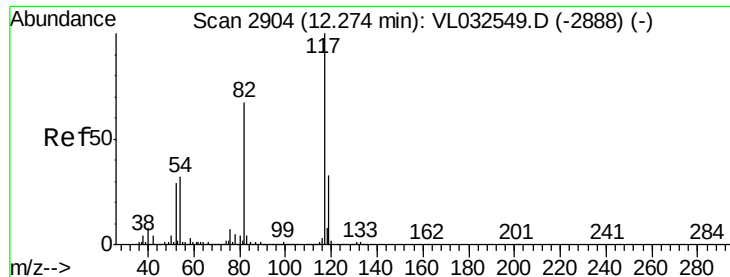
Tgt Ion: 91 Resp: 408749

Ion Ratio Lower Upper

91 100

92 58.2 48.1 72.1





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.27 min Scan# 2903

Delta R.T. -0.03 min

Lab File: VL032604.D

Acq: 11 Oct 2018 14:43

Instrument :

MSVOA_L

ClientSampled :

SV-2

Tot Ion:117 Resp: 3104174

Ion Ratio Lower Upper

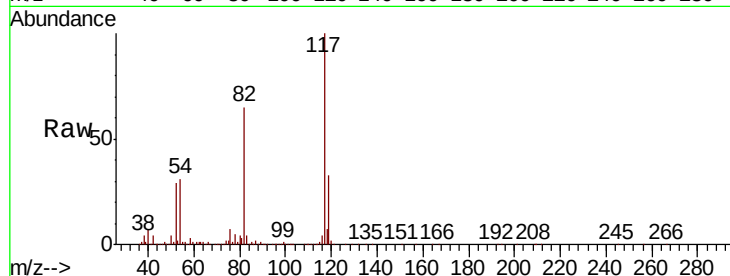
117 100

82 66.8 53.0 79.6

119 32.6 45.9 68.9#

Manual Integrations
APPROVED

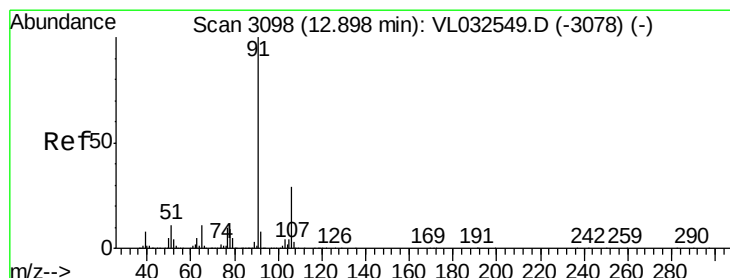
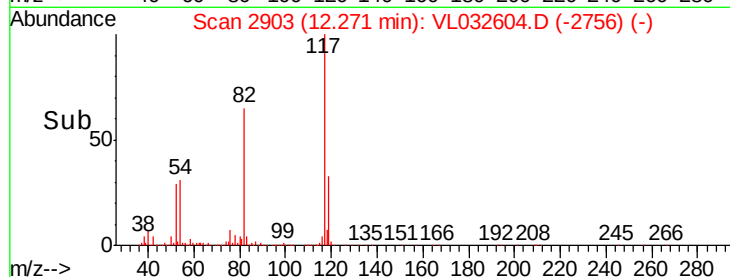
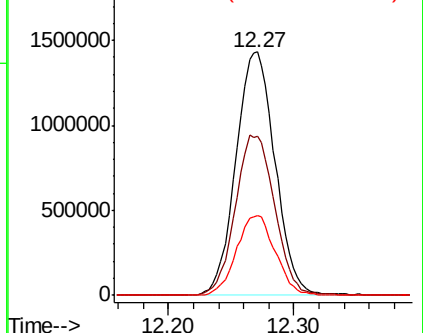
MMDadoda
10/12/2018 2:07:29 PM



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#58

Ethyl Benzene

Concen: 0.138 ppbv m

RT: 12.89 min Scan# 3096

Delta R.T. -0.03 min

Lab File: VL032604.D

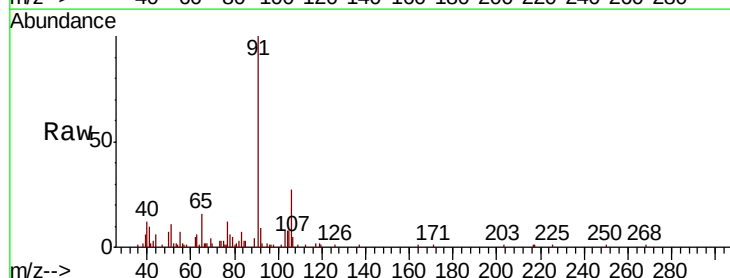
Acq: 11 Oct 2018 14:43

Tgt Ion: 91 Resp: 52010

Ion Ratio Lower Upper

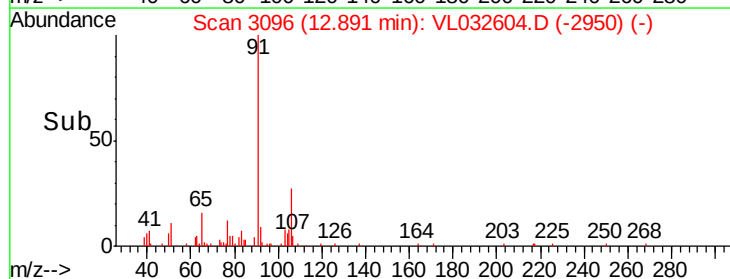
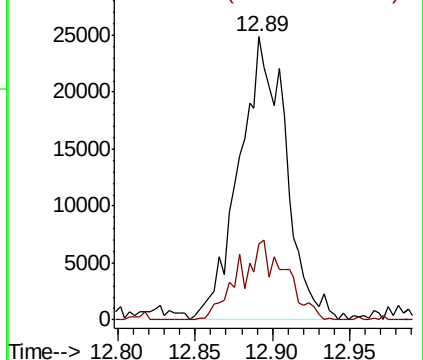
91 100

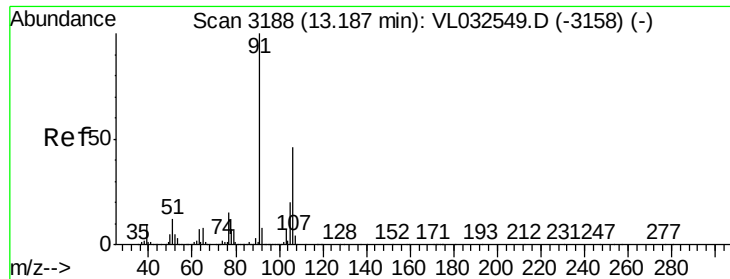
106 26.7 24.8 37.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





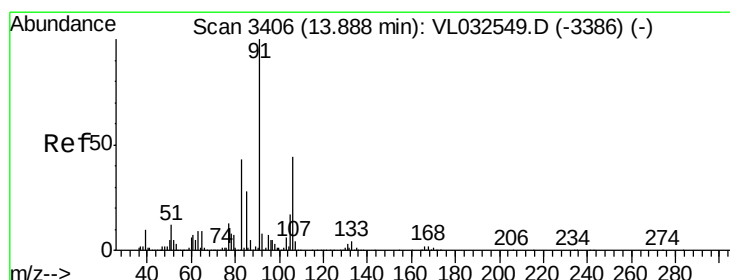
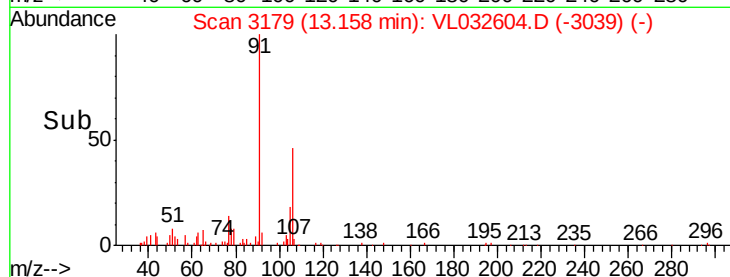
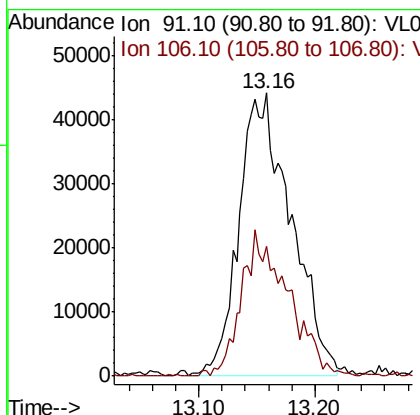
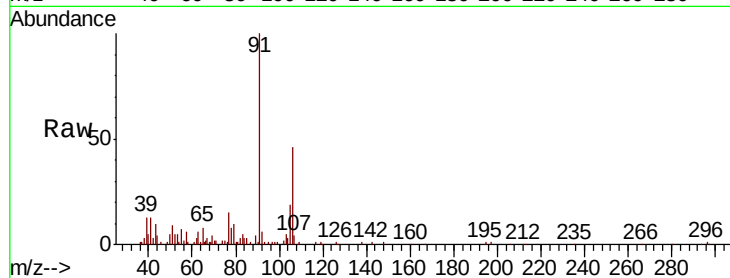
#59
m/p-Xylene
Concen: 0.408 ppbv m
RT: 13.16 min Scan# 3179
Delta R.T. -0.05 min
Lab File: VL032604.D
Acq: 11 Oct 2018 14:43

Instrument :
MSVOA_L
ClientSampled :
SV-2

Tot Ion: 91 Resp: 136740
Ion Ratio Lower Upper
91 100
106 0.0 36.6 55.0#

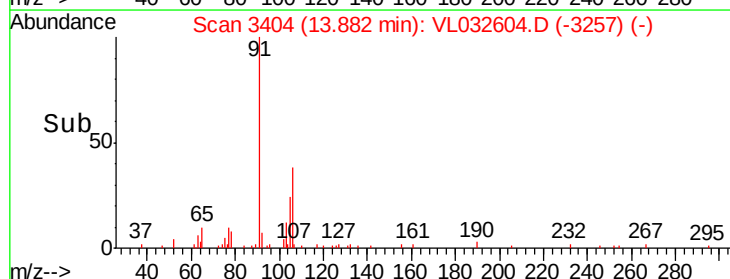
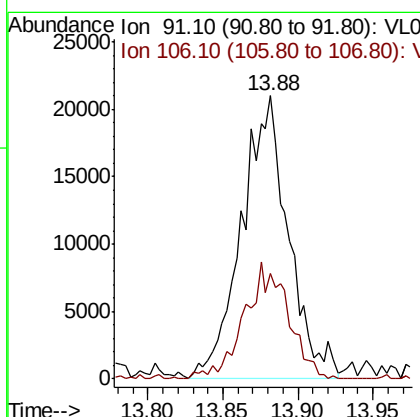
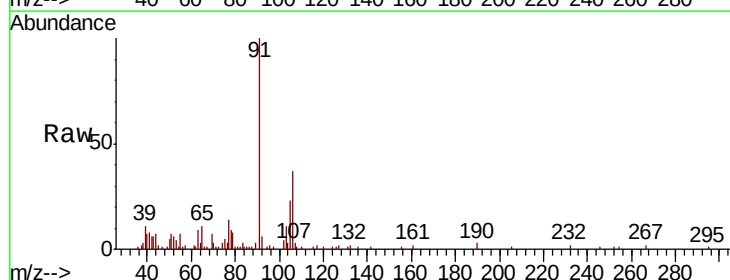
Manual Integrations
APPROVED

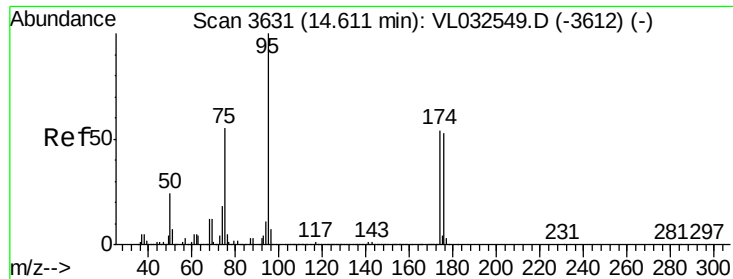
MMDadoda
10/12/2018 2:07:29 PM



#60
o-Xylene
Concen: 0.139 ppbv m
RT: 13.88 min Scan# 3404
Delta R.T. -0.03 min
Lab File: VL032604.D
Acq: 11 Oct 2018 14:43

Tgt Ion: 91 Resp: 45477
Ion Ratio Lower Upper
91 100
106 38.5 21.9 65.7





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.756 ppbv
 RT: 14.61 min Scan# 3629
 Delta R.T. -0.03 min
 Lab File: VL032604.D
 Acq: 11 Oct 2018 14:43

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-2

Tot Ion	Ratio	Lower	Upper
95	100		
174	59.4	46.3	69.5
175	4.2	3.4	5.0

Manual Integrations
 APPROVED

MMDadoda
 10/12/2018 2:07:29 PM

