

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL092718\
 Data File : VL032571.D
 Acq On : 28 Sep 2018 5:23
 Operator : SY/AP
 Sample : J5094-05
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 CIA-1

Manual Integrations
 APPROVED

MMDadoda
 10/1/2018 11:57:55 AM

Quant Time: Sep 28 06:59:45 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL092418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Sep 28 06:59:45 2018
 QLast Update : Tue Sep 25 05:17:15 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.79	49	1227879	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.32	114	2782841	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.27	117	2962253	10.00	ppbv	-0.02

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.61	95	2089918	9.36	ppbv	-0.03	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.60%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.10	85	91411	0.805	ppbv	97
3) Chlorodifluoromethane	3.03	51	767092	7.512	ppbv	98
4) Chloromethane	3.19	50	29642	0.498	ppbv	92
9) Propene	3.07	41	163004m	3.679	ppbv	
10) Heptane	8.28	43	17031m	0.105	ppbv	
11) Trichlorofluoromethane	4.03	101	39050	0.289	ppbv	90
13) Ethanol	3.67	45	1490584	111.932	ppbv	97
15) Acetone	3.93	43	627632	5.823	ppbv	98
20) Methylene Chloride	4.43	84	83754	1.605	ppbv	97
26) Hexane	5.81	57	219047	1.854	ppbv #	51
34) 2-Butanone	5.36	43	27505	0.166	ppbv	98
35) Carbon Tetrachloride	7.17	117	15295m	0.079	ppbv	
36) Benzene	7.04	78	34436	0.153	ppbv #	86
52) Tetrachloroethene	11.41	164	29181m	0.373	ppbv	
53) Toluene	9.98	91	380096	1.387	ppbv	100

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

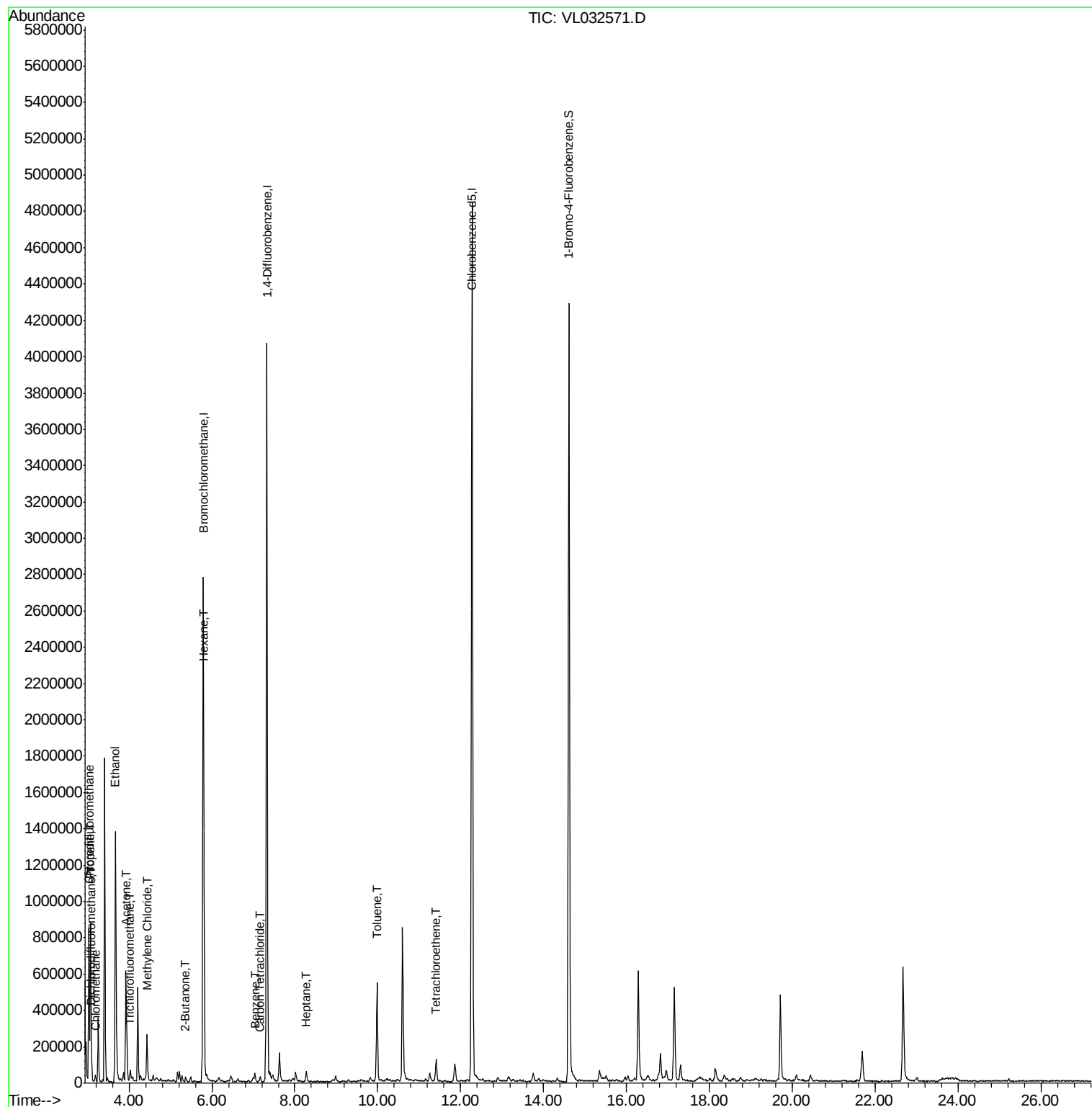
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL092718\
Data File : VL032571.D
Acq On : 28 Sep 2018 5:23
Operator : SY/AP
Sample : J5094-05
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

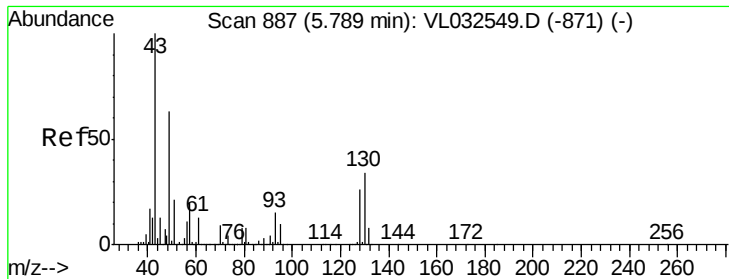
Instrument :
MSVOA_L
ClientSampleId :
CIA-1

Manual Integrations
APPROVED

MMDadoda
10/1/2018 11:57:55 AM

Quant Time: Sep 28 06:59:45 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL092418AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Sep
QLast Update : Tue Sep 25 05:17:15 2018
Response via : Initial Calibration





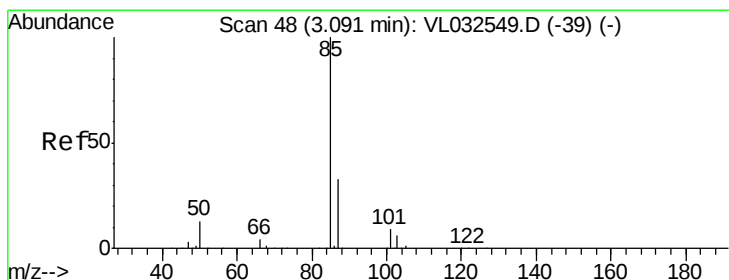
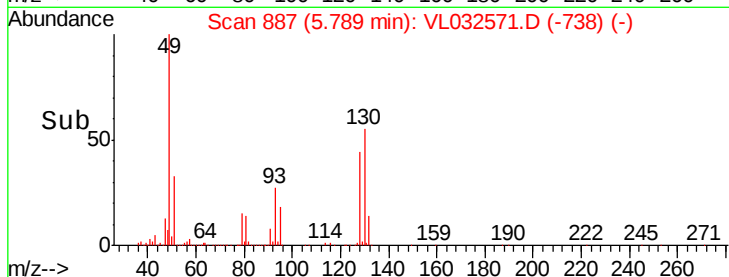
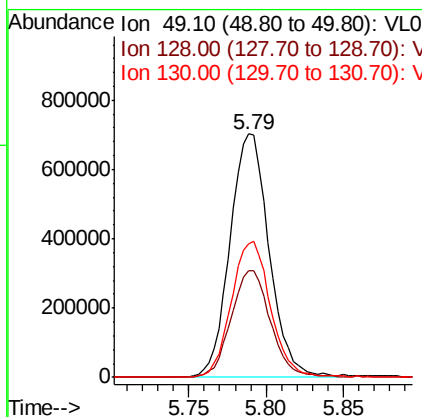
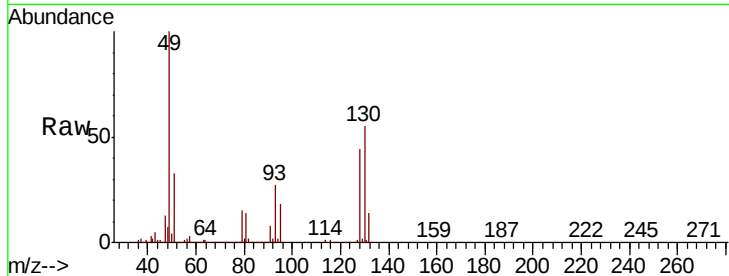
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.79 min Scan# 887
Delta R.T. -0.02 min
Lab File: VL032571.D
Acq: 28 Sep 2018 5:23

Instrument :
MSVOA_L
ClientSampled :
CIA-1

Tgt Ion: 49 Resp: 1227879
Ion Ratio Lower Upper
49 100
128 44.9 20.7 62.1
130 56.9 26.6 79.7

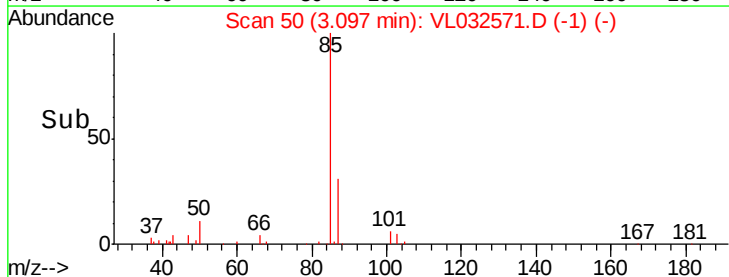
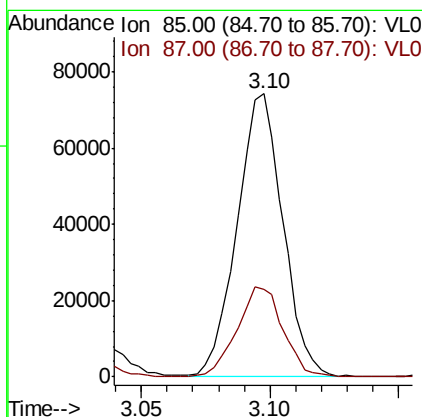
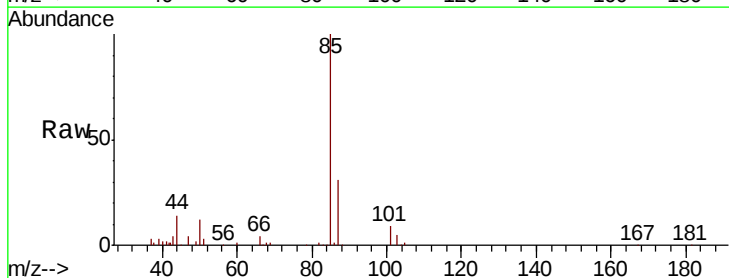
Manual Integrations
APPROVED

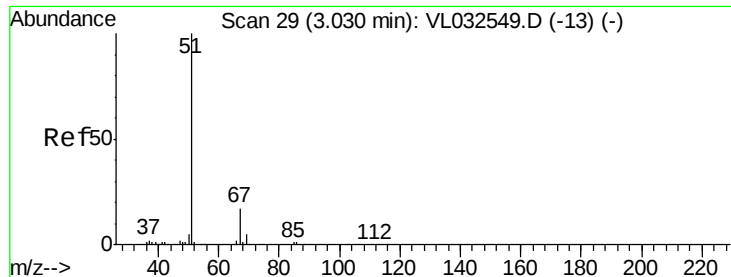
MMDadoda
10/1/2018 11:57:55 AM



#2
Dichlorodifluoromethane
Concen: 0.805 ppbv
RT: 3.10 min Scan# 50
Delta R.T. -0.01 min
Lab File: VL032571.D
Acq: 28 Sep 2018 5:23

Tgt Ion: 85 Resp: 91411
Ion Ratio Lower Upper
85 100
87 30.9 26.2 39.4





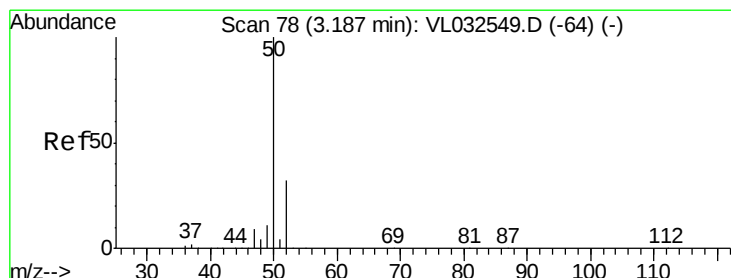
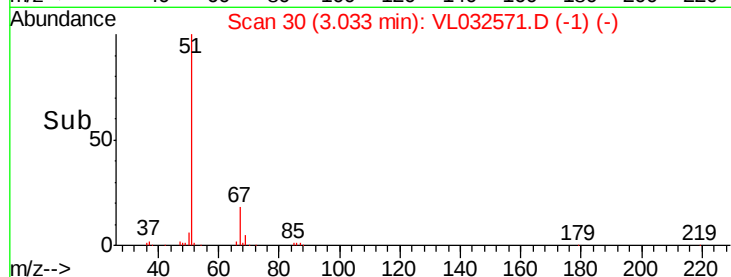
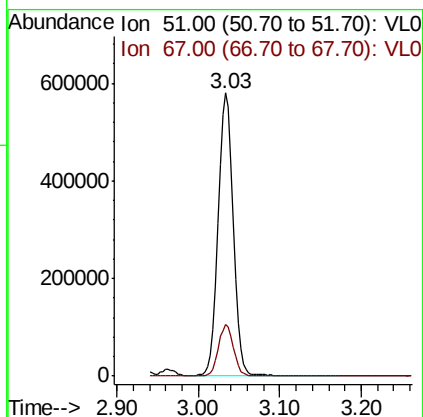
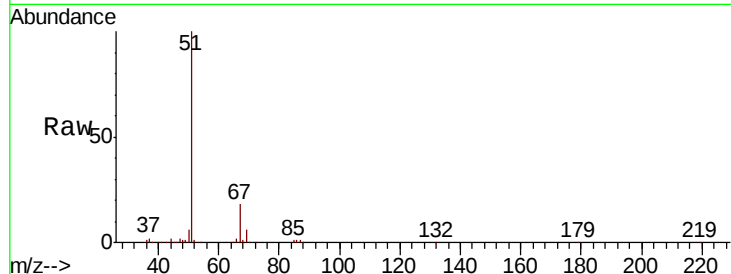
#3
Chlorodifluoromethane
Concen: 7.512 ppbv
RT: 3.03 min Scan# 30
Delta R.T. -0.01 min
Lab File: VL032571.D
Acq: 28 Sep 2018 5:23

Instrument :
MSVOA_L
ClientSampled :
CIA-1

Tgt Ion: 51 Resp: 767092
Ion Ratio Lower Upper
51 100
67 18.2 13.8 20.8

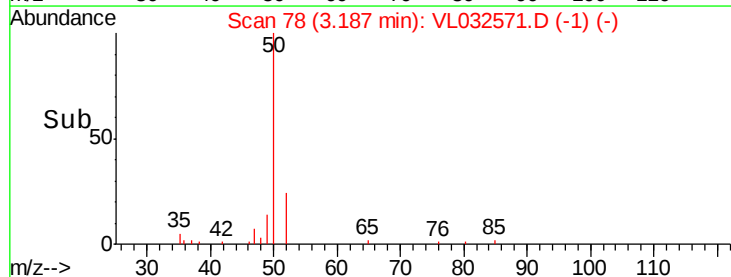
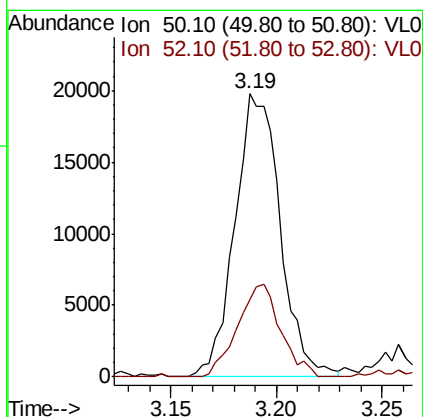
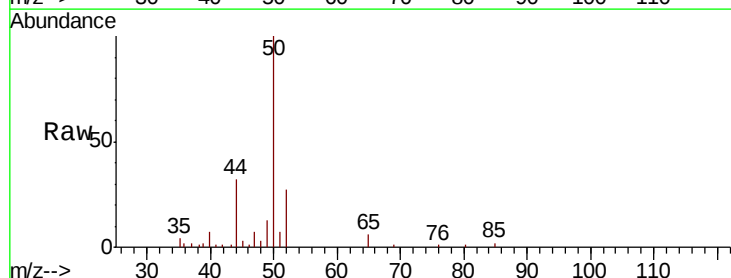
Manual Integrations
APPROVED

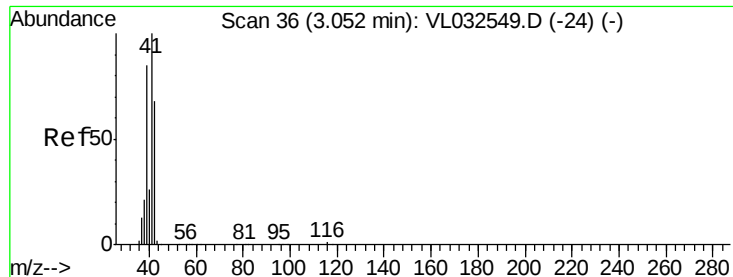
MMDadoda
10/1/2018 11:57:55 AM



#4
Chloromethane
Concen: 0.498 ppbv
RT: 3.19 min Scan# 78
Delta R.T. -0.02 min
Lab File: VL032571.D
Acq: 28 Sep 2018 5:23

Tgt Ion: 50 Resp: 29642
Ion Ratio Lower Upper
50 100
52 27.7 25.6 38.4





#9

Propene

Concen: 3.679 ppbv m

RT: 3.07 min Scan# 41

Delta R.T. 0.00 min

Lab File: VL032571.D

Acq: 28 Sep 2018 5:23

Instrument :

MSVOA_L

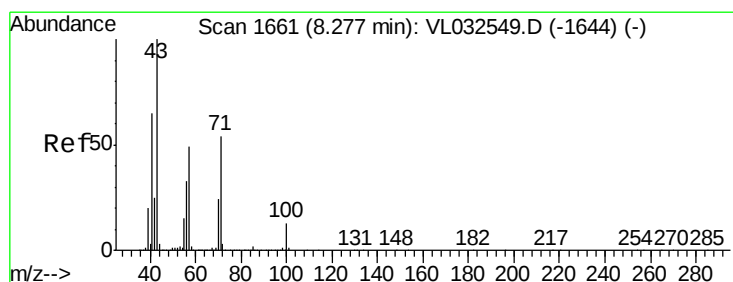
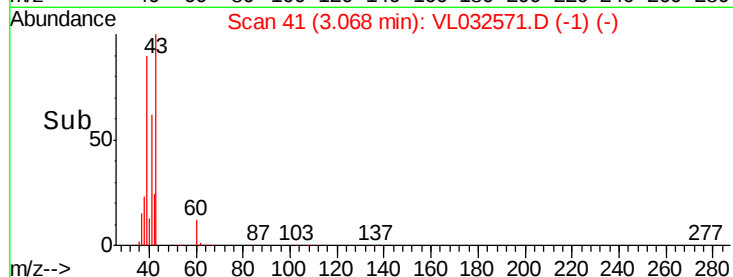
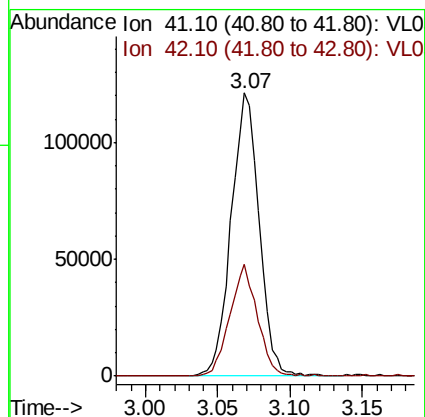
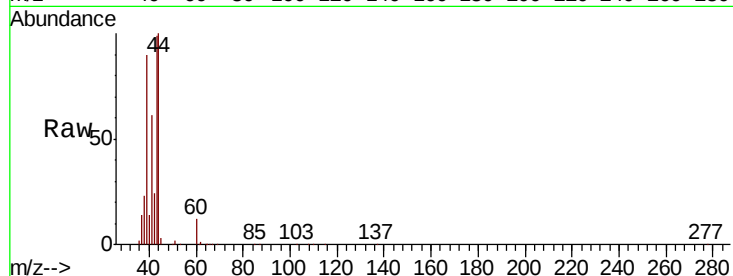
ClientSampleId :

CIA-1

Manual Integrations
APPROVED

MMDadoda
10/1/2018 11:57:55 AM

Tgt Ion	Ratio	Lower	Upper
41	100		
42	35.5	56.6	84.8#



#10

Heptane

Concen: 0.105 ppbv m

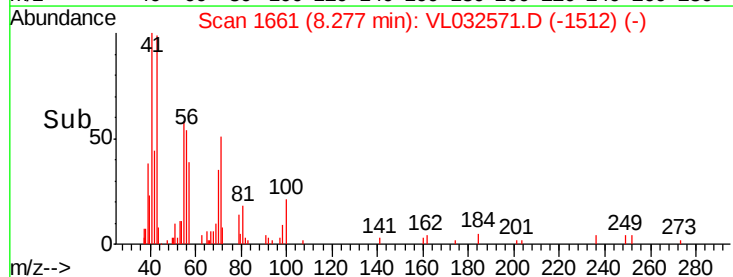
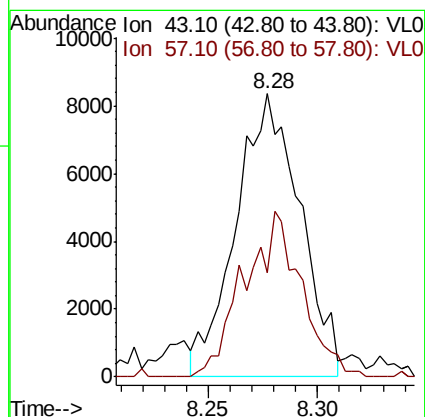
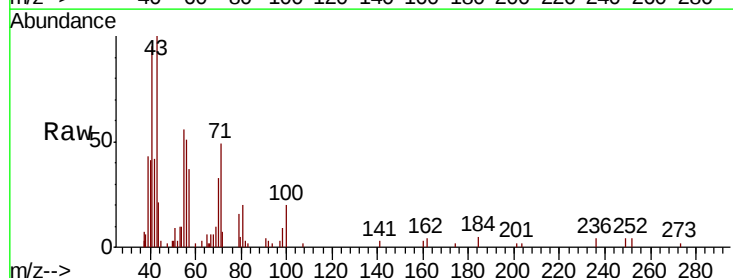
RT: 8.28 min Scan# 1661

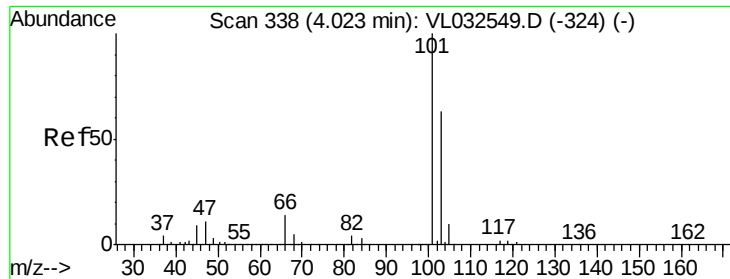
Delta R.T. -0.02 min

Lab File: VL032571.D

Acq: 28 Sep 2018 5:23

Tgt Ion	Ratio	Lower	Upper
43	100		
57	0.0	39.6	59.4#





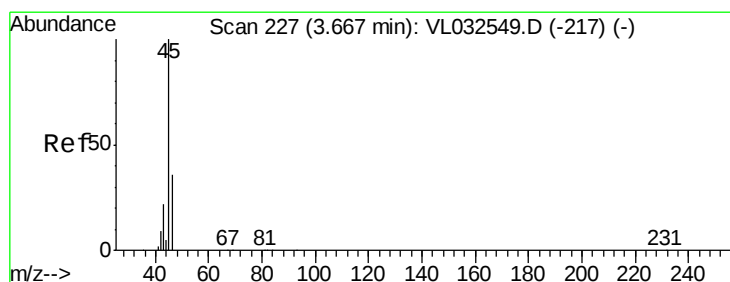
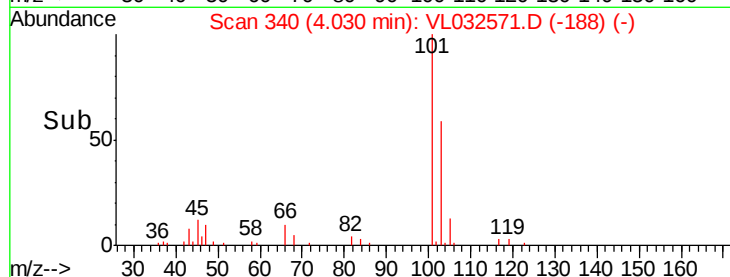
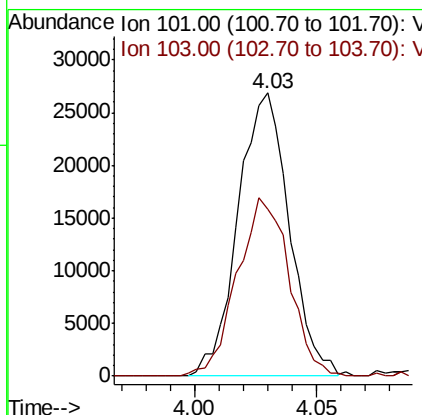
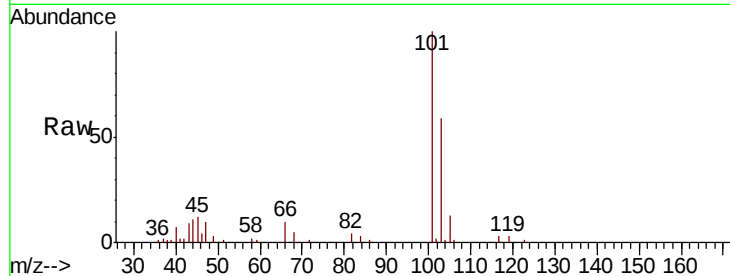
#11
 Trichlorofluoromethane
 Concen: 0.289 ppbv
 RT: 4.03 min Scan# 340
 Delta R.T. -0.01 min
 Lab File: VL032571.D
 Acq: 28 Sep 2018 5:23

Instrument :
 MSVOA_L
 ClientSampleId :
 CIA-1

Tgt Ion	Ratio	Lower	Upper
101	100		
103	58.2	52.8	79.2

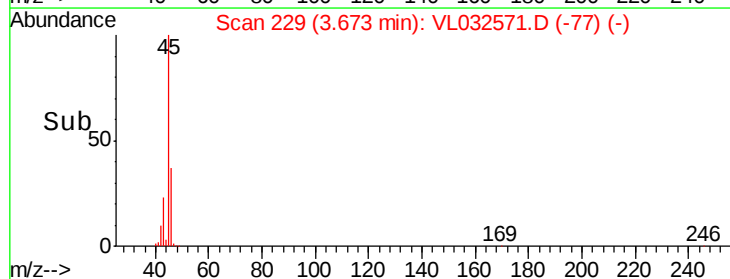
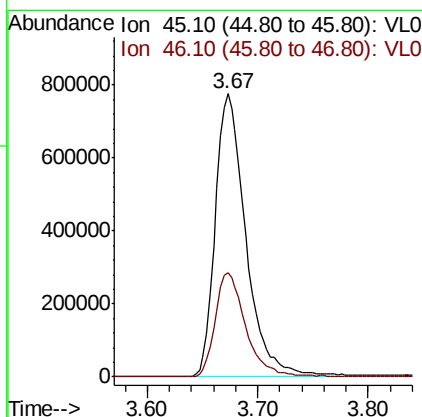
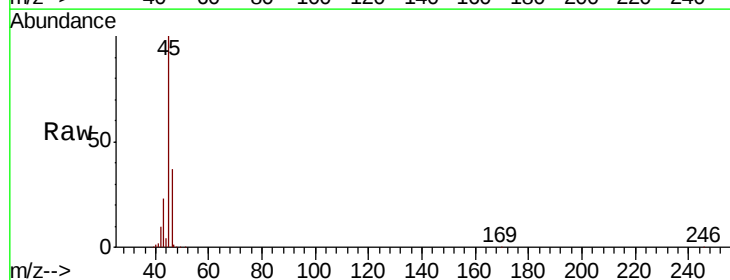
Manual Integrations
 APPROVED

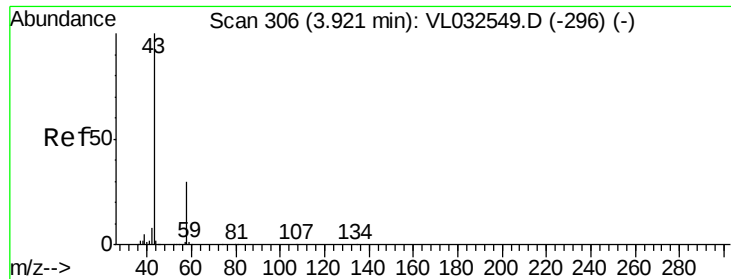
MMDadoda
 10/1/2018 11:57:55 AM



#13
 Ethanol
 Concen: 111.932 ppbv
 RT: 3.67 min Scan# 229
 Delta R.T. -0.01 min
 Lab File: VL032571.D
 Acq: 28 Sep 2018 5:23

Tgt Ion	Ratio	Lower	Upper
45	100		
46	37.2	14.2	56.8





#15

Acetone

Concen: 5.823 ppbv

RT: 3.93 min Scan# 308

Delta R.T. -0.01 min

Lab File: VL032571.D

Acq: 28 Sep 2018 5:23

Instrument :

MSVOA_L

ClientSampled :

CIA-1

Tgt Ion: 43 Resp: 627632

Ion Ratio Lower Upper

43 100

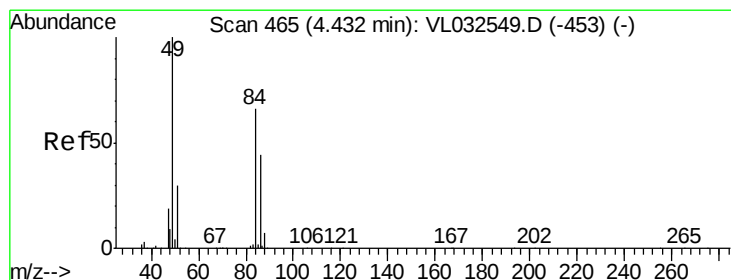
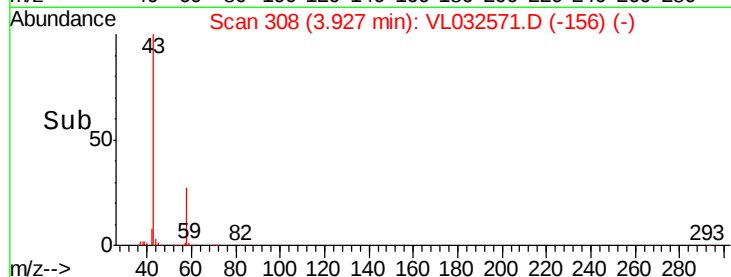
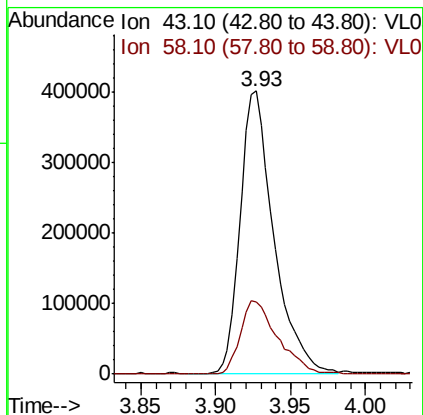
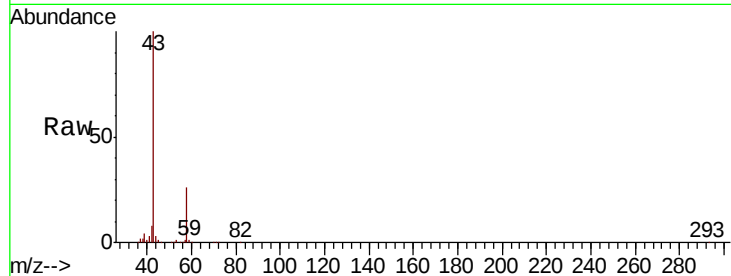
58 29.4 22.6 33.8

Manual Integrations

APPROVED

MMDadoda

10/1/2018 11:57:55 AM



#20

Methylene Chloride

Concen: 1.605 ppbv

RT: 4.43 min Scan# 466

Delta R.T. -0.02 min

Lab File: VL032571.D

Acq: 28 Sep 2018 5:23

Tgt Ion: 84 Resp: 83754

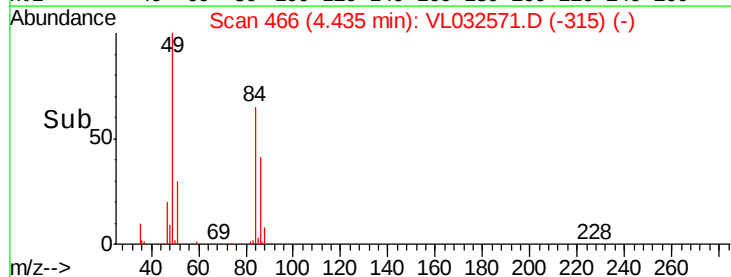
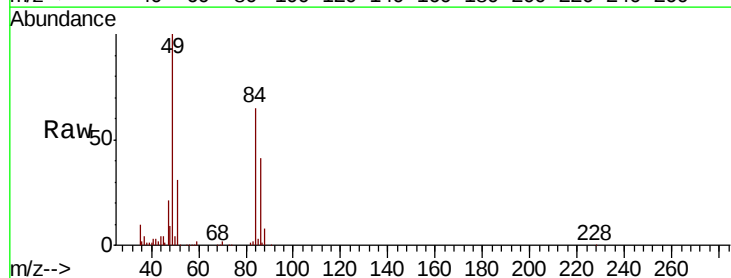
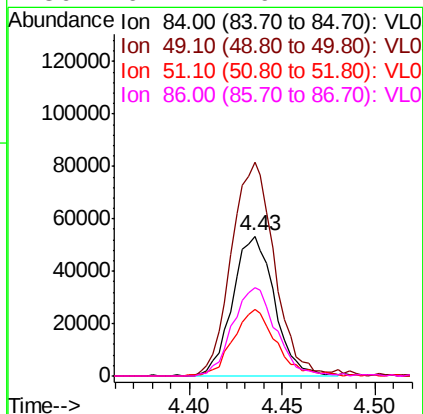
Ion Ratio Lower Upper

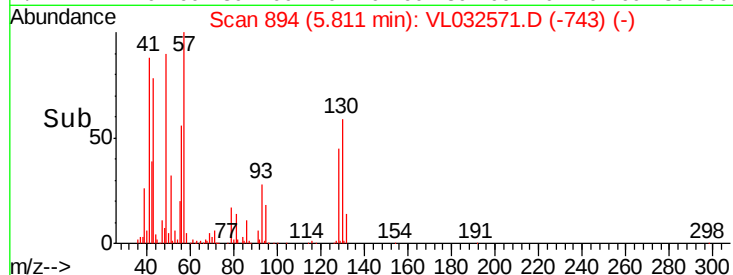
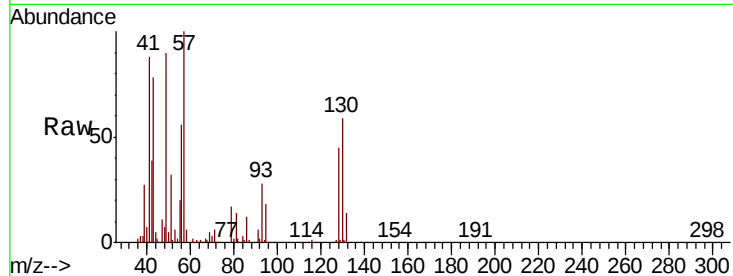
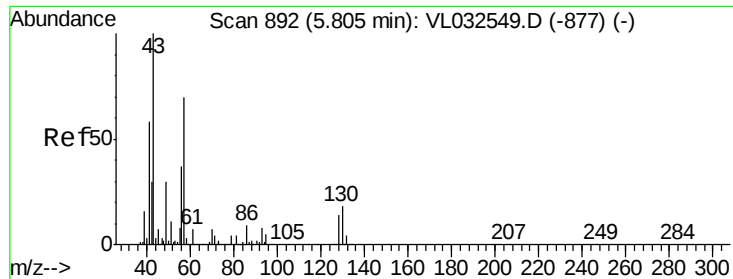
84 100

49 153.0 119.1 178.7

51 47.4 35.2 52.8

86 62.7 49.4 74.2





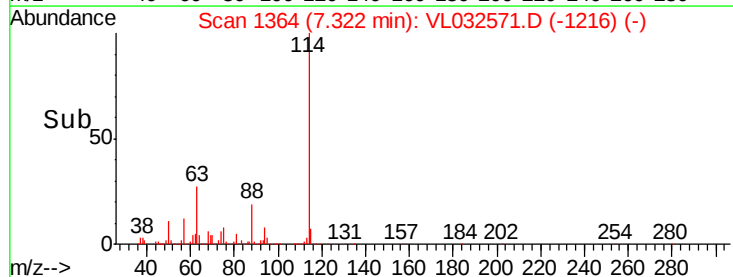
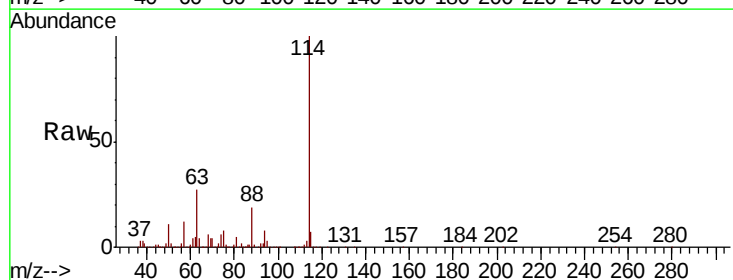
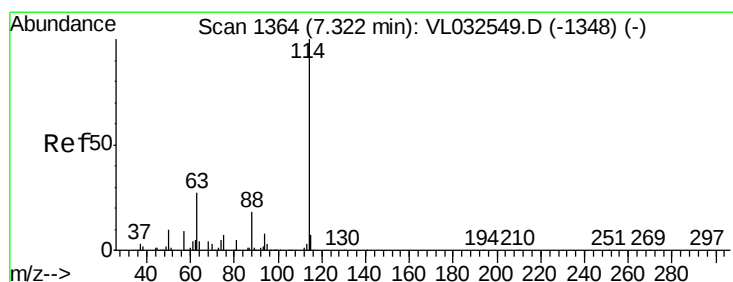
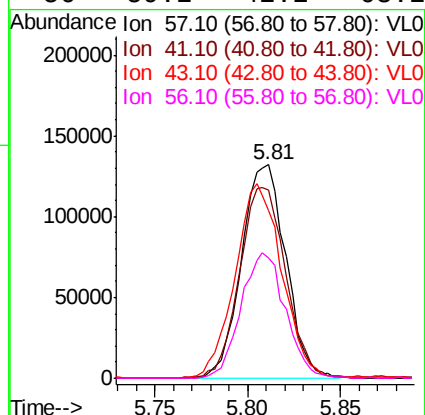
#26
Hexane
Concen: 1.854 ppbv
RT: 5.81 min Scan# 894
Delta R.T. -0.02 min
Lab File: VL032571.D
Acq: 28 Sep 2018 5:23

Tgt Ion	Ratio	Lower	Upper
57	100		
41	93.6	69.0	103.4
43	96.2	172.1	258.1#
56	59.2	42.2	63.2

Instrument :
MSVOA_L
ClientSampleId :
CIA-1

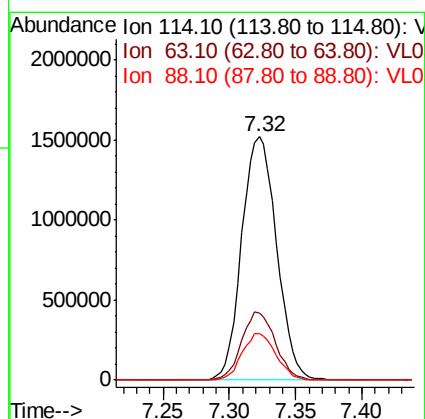
Manual Integrations
APPROVED

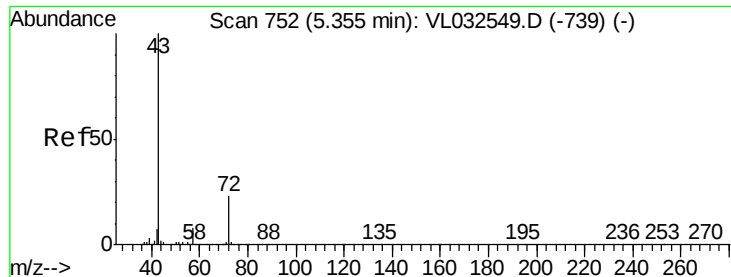
MMDadoda
10/1/2018 11:57:55 AM



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.32 min Scan# 1364
Delta R.T. -0.02 min
Lab File: VL032571.D
Acq: 28 Sep 2018 5:23

Tgt Ion	Ratio	Lower	Upper
114	100		
63	27.1	22.2	33.4
88	18.8	15.0	22.4





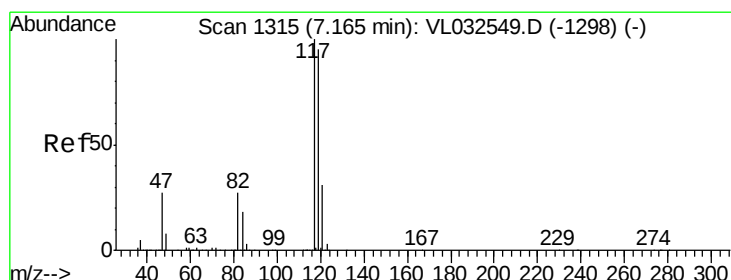
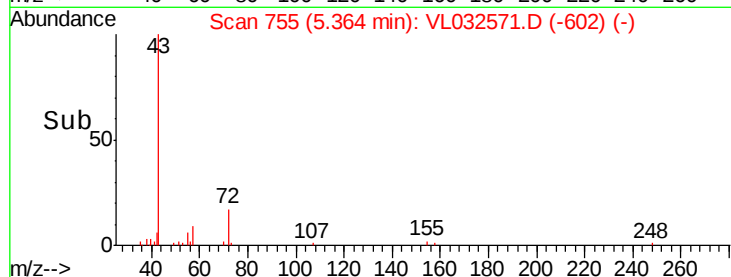
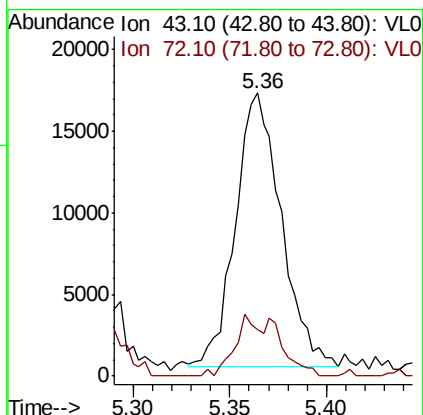
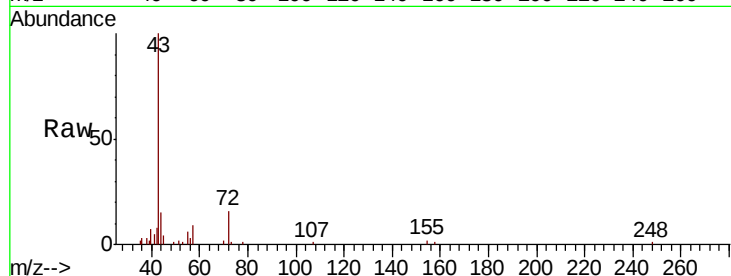
#34
2-Butanone
Concen: 0.166 ppbv
RT: 5.36 min Scan# 755
Delta R.T. -0.01 min
Lab File: VL032571.D
Acq: 28 Sep 2018 5:23

Instrument :
MSVOA_L
ClientSampleId :
CIA-1

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.3	17.8	26.6

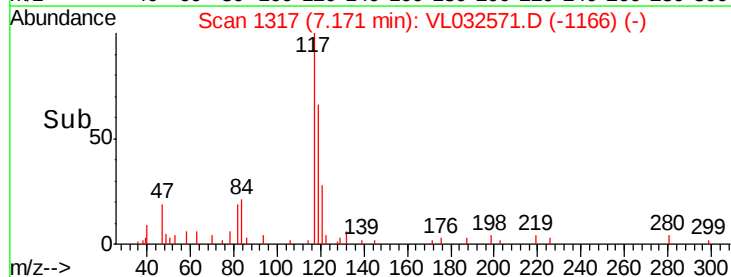
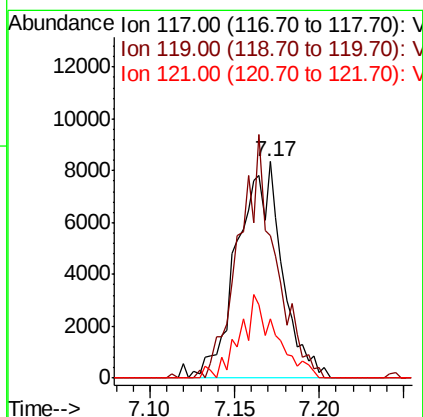
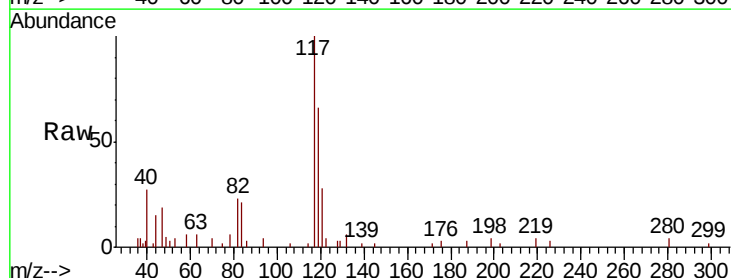
Manual Integrations
APPROVED

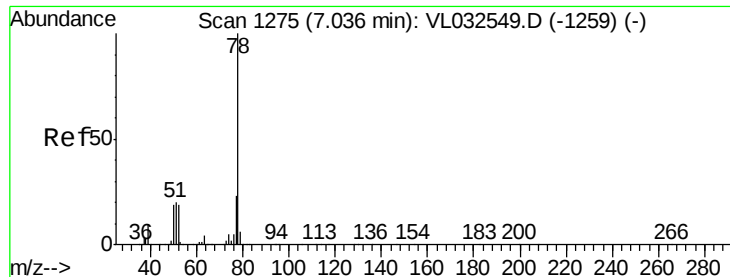
MMDadoda
10/1/2018 11:57:55 AM



#35
Carbon Tetrachloride
Concen: 0.079 ppbv m
RT: 7.17 min Scan# 1317
Delta R.T. -0.02 min
Lab File: VL032571.D
Acq: 28 Sep 2018 5:23

Tgt Ion	Ratio	Lower	Upper
117	100		
119	65.7	76.6	115.0#
121	27.7	24.6	36.8





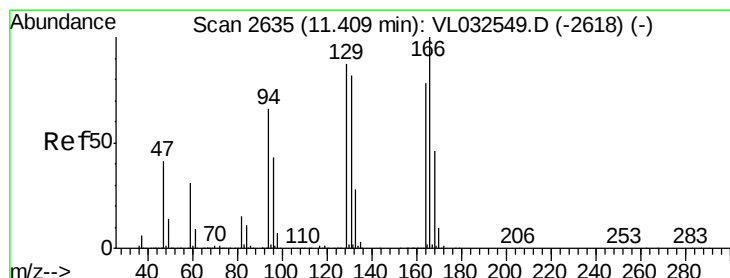
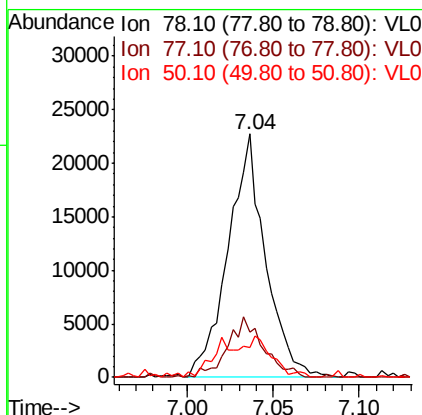
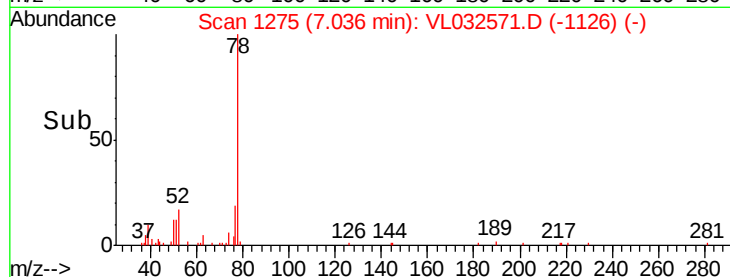
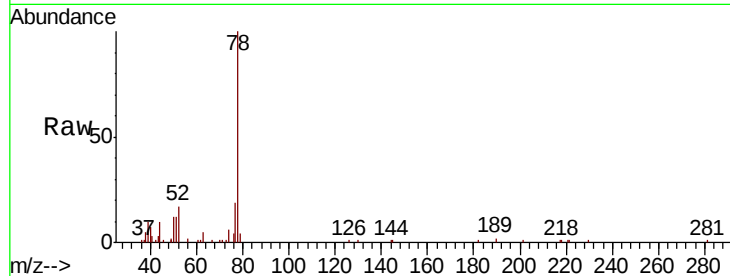
#36
Benzene
Concen: 0.153 ppbv
RT: 7.04 min Scan# 1275
Delta R.T. -0.02 min
Lab File: VL032571.D
Acq: 28 Sep 2018 5:23

Instrument :
MSVOA_L
ClientSampleId :
CIA-1

Tgt Ion	Ratio	Lower	Upper
78	100		
77	18.5	18.4	27.6
50	9.3	14.4	21.6#

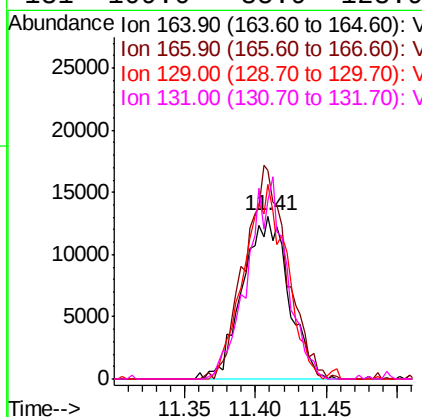
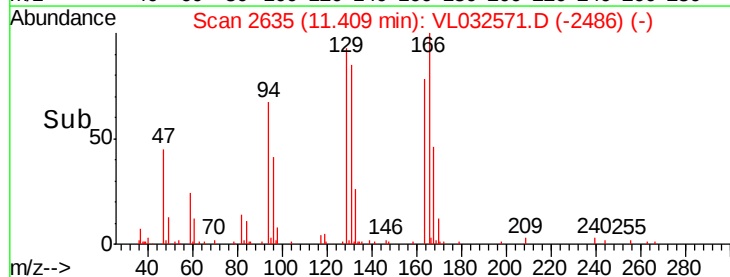
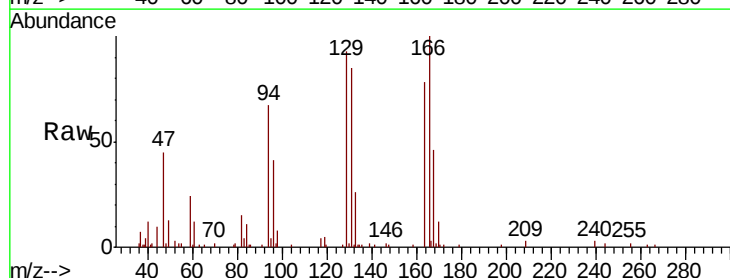
Manual Integrations
APPROVED

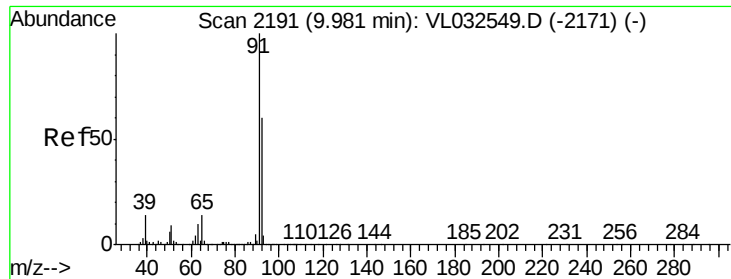
MMDadoda
10/1/2018 11:57:55 AM



#52
Tetrachloroethene
Concen: 0.373 ppbv m
RT: 11.41 min Scan# 2635
Delta R.T. -0.02 min
Lab File: VL032571.D
Acq: 28 Sep 2018 5:23

Tgt Ion	Ratio	Lower	Upper
164	100		
166	128.0	100.6	150.8
129	119.4	89.9	134.9
131	109.0	85.9	128.9





#53

Toluene

Concen: 1.387 ppbv

RT: 9.98 min Scan# 2191

Delta R.T. -0.02 min

Lab File: VL032571.D

Acq: 28 Sep 2018 5:23

Instrument :

MSVOA_L

ClientSampled :

CIA-1

Tgt Ion: 91 Resp: 380096

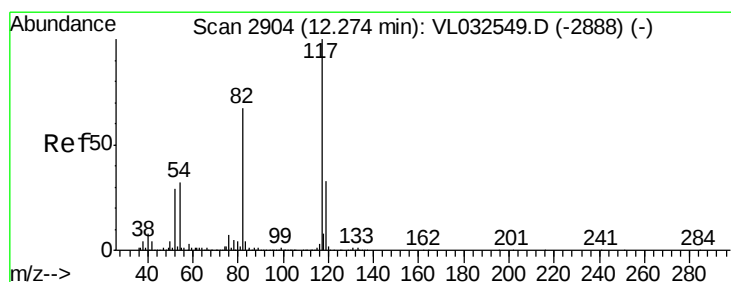
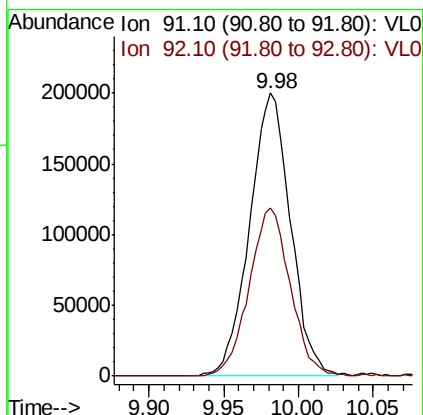
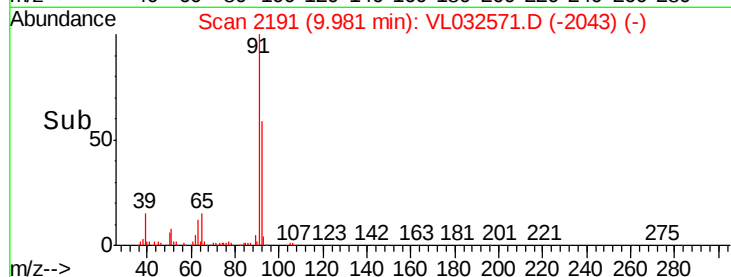
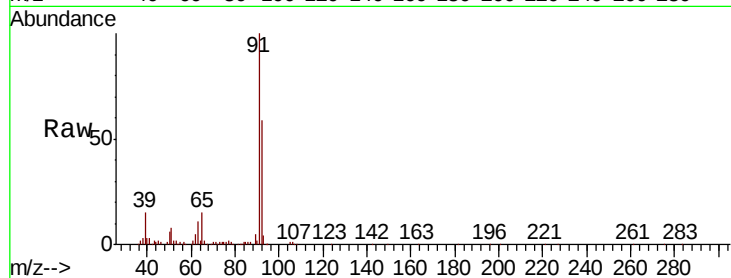
Ion Ratio Lower Upper

91 100

92 59.8 48.1 72.1

Manual Integrations
APPROVED

MMDadoda
10/1/2018 11:57:55 AM



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.27 min Scan# 2904

Delta R.T. -0.02 min

Lab File: VL032571.D

Acq: 28 Sep 2018 5:23

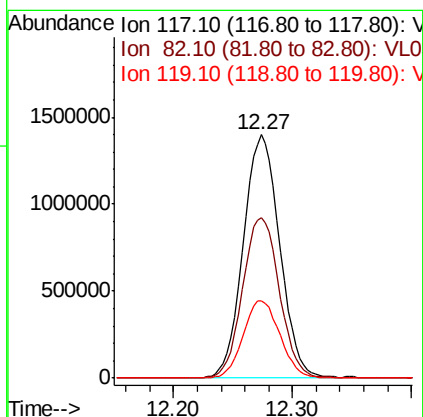
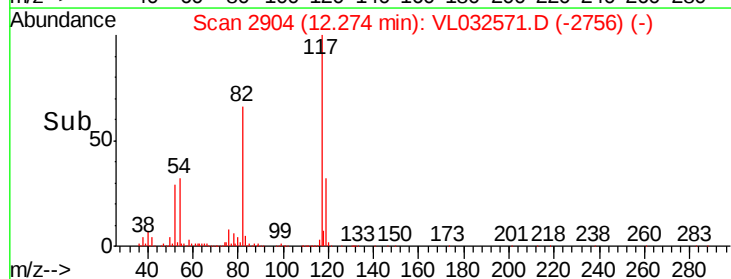
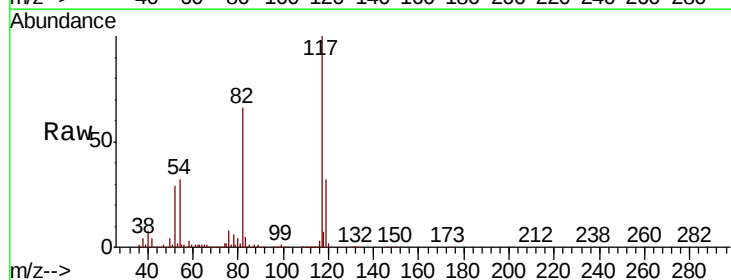
Tgt Ion: 117 Resp: 2962253

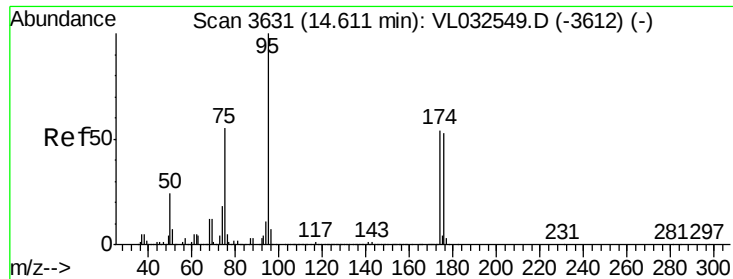
Ion Ratio Lower Upper

117 100

82 67.5 53.0 79.6

119 32.2 45.9 68.9#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.356 ppbv
 RT: 14.61 min Scan# 3630
 Delta R.T. -0.03 min
 Lab File: VL032571.D
 Acq: 28 Sep 2018 5:23

Instrument :
 MSVOA_L
 ClientSampleId :
 CIA-1

Tgt Ion:	95	Resp:	2089918
Ion	Ratio	Lower	Upper
95	100		
174	58.4	46.3	69.5
175	4.1	3.4	5.0

Manual Integrations
 APPROVED

MMDadoda
 10/1/2018 11:57:55 AM

