

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050219\
 Data File : VL033629.D
 Acq On : 2 May 2019 15:43
 Operator : SY/AP
 Sample : K2628-02
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 A-2

Manual Integrations
 APPROVED

MMDadoda
 5/4/2019 7:18:32 AM

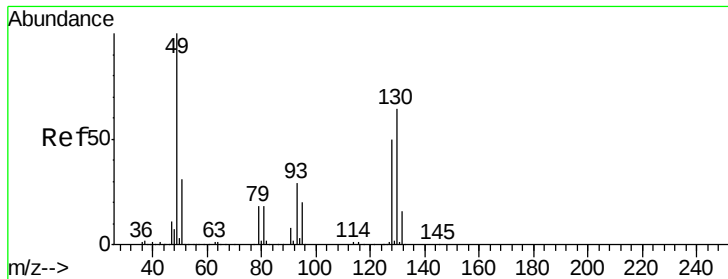
Quant Time: May 03 04:09:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050119AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May 03 04:09:33 2019
 QLast Update : Thu May 02 06:29:02 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	841150	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2118538	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2280220	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.57	95	1792787	10.33	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	54930	0.433	ppbv	95
4) Chloromethane	3.17	50	34036	0.621	ppbv	97
11) Trichlorofluoromethane	4.00	101	45307	0.301	ppbv	94
13) Ethanol	3.65	45	630188	48.266	ppbv	99
15) Acetone	3.90	43	544338	5.316	ppbv	97
19) Isopropyl Alcohol	4.03	45	160268	2.280	ppbv #	93
20) Methylene Chloride	4.41	84	70662	1.771	ppbv	96
26) Hexane	5.78	57	120536	1.473	ppbv #	44
34) 2-Butanone	5.34	43	26640	0.205	ppbv	98
35) Carbon Tetrachloride	7.13	117	11408m	0.068	ppbv	
36) Benzene	6.99	78	17788	0.099	ppbv #	93
53) Toluene	9.94	91	1484966	6.519	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. 0.00 min

Lab File: VL033629.D

Acq: 2 May 2019 15:43

Instrument :

MSVOA_L

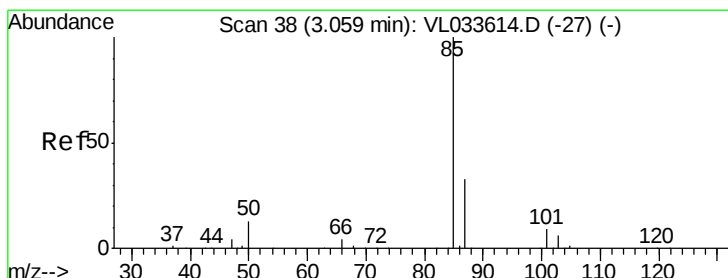
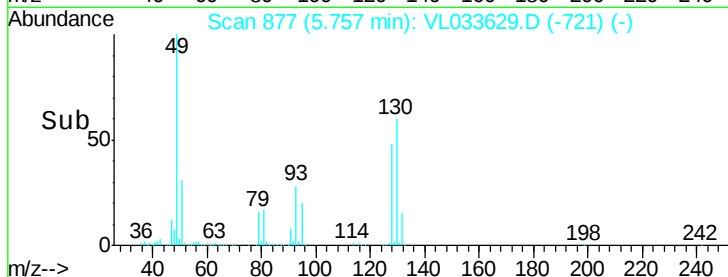
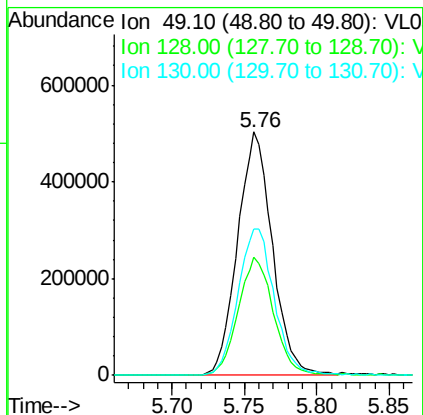
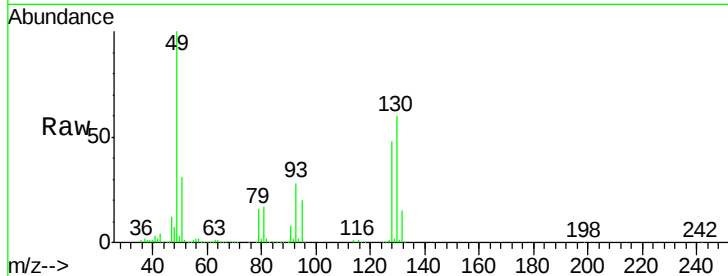
ClientSampleId :

A-2

Tot Ion:	49	Resp:	841150
Ion Ratio	Lower	Upper	
49	100		
128	49.4	25.0	75.0
130	63.0	31.9	95.9

Manual Integrations
APPROVED

MMDadoda
5/4/2019 7:18:32 AM



#2

Dichlorodifluoromethane

Concen: 0.433 ppbv

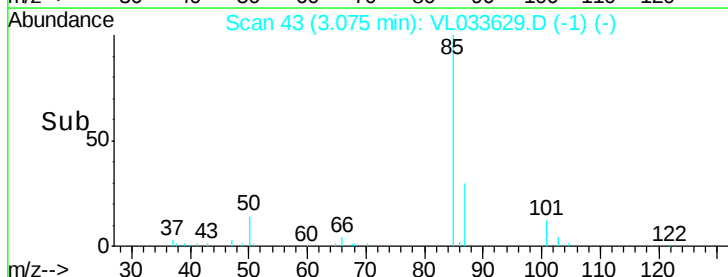
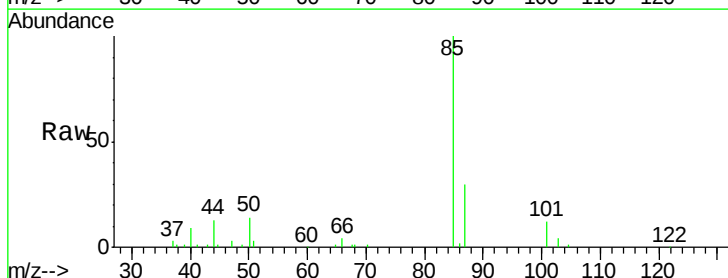
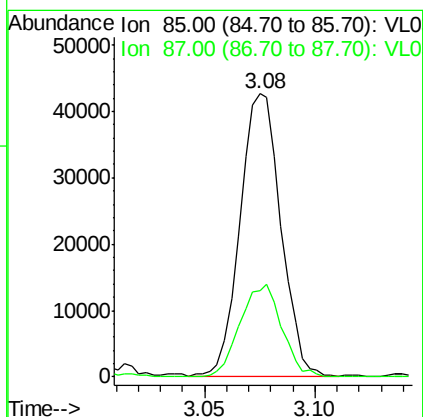
RT: 3.08 min Scan# 43

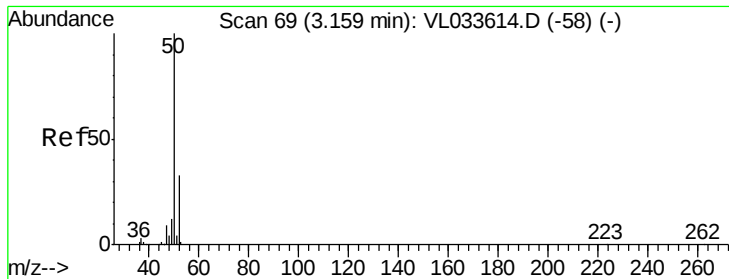
Delta R.T. 0.02 min

Lab File: VL033629.D

Acq: 2 May 2019 15:43

Tgt Ion:	85	Resp:	54930
Ion Ratio	Lower	Upper	
85	100		
87	30.5	26.8	40.2





#4

Chloromethane

Concen: 0.621 ppbv

RT: 3.17 min Scan# 73

Delta R.T. 0.01 min

Lab File: VL033629.D

Acq: 2 May 2019 15:43

Instrument :

MSVOA_L

ClientSampleId :

A-2

Tot Ion: 50 Resp: 34036

Ion Ratio Lower Upper

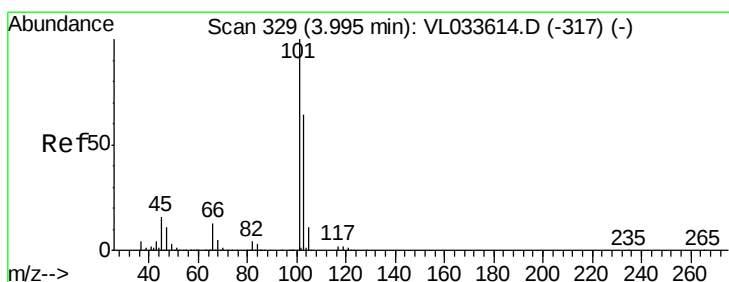
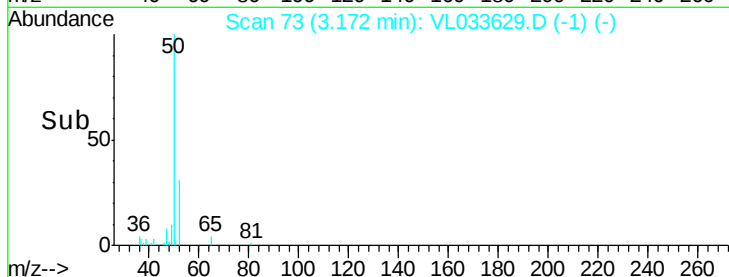
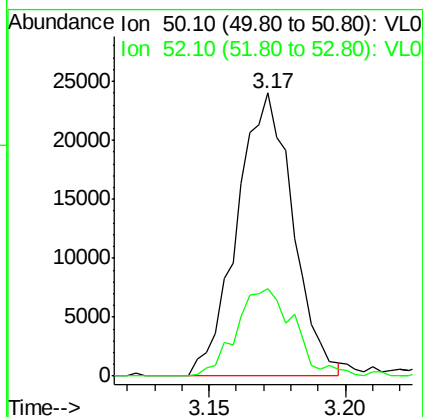
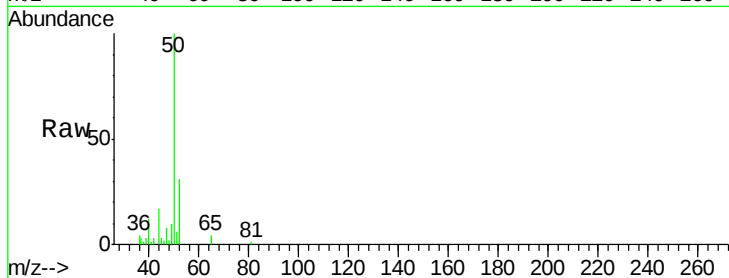
50 100

52 30.7 26.0 39.0

Manual Integrations
APPROVED

MMDadoda

5/4/2019 7:18:32 AM



#11

Trichlorofluoromethane

Concen: 0.301 ppbv

RT: 4.00 min Scan# 332

Delta R.T. 0.01 min

Lab File: VL033629.D

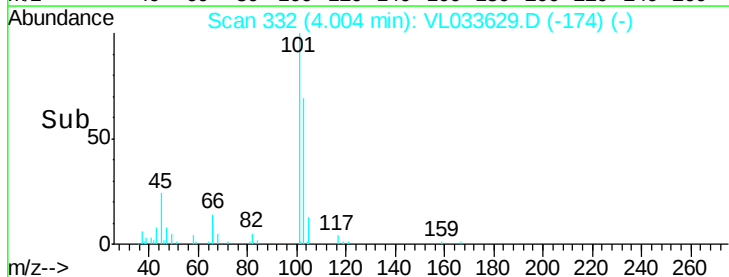
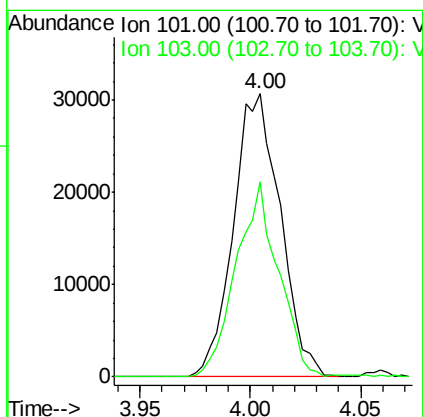
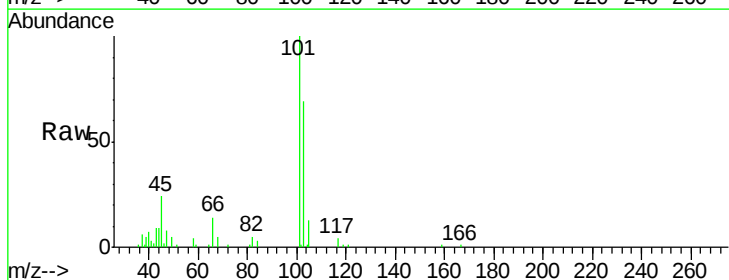
Acq: 2 May 2019 15:43

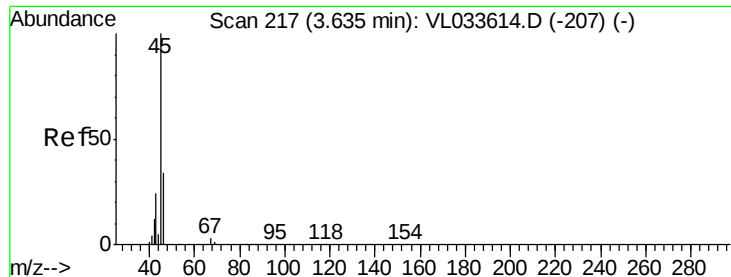
Tgt Ion: 101 Resp: 45307

Ion Ratio Lower Upper

101 100

103 68.7 51.2 76.8





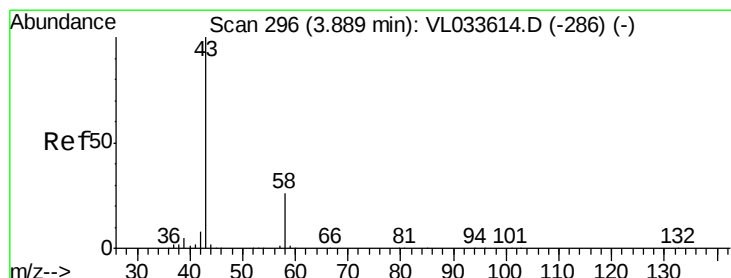
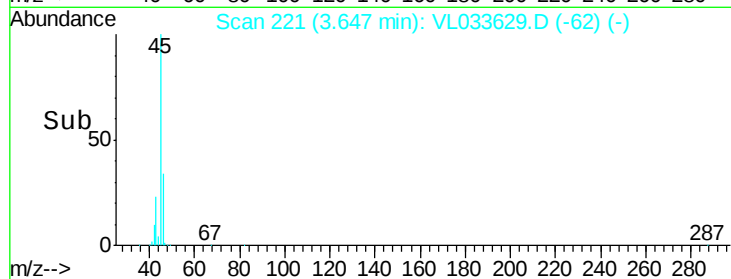
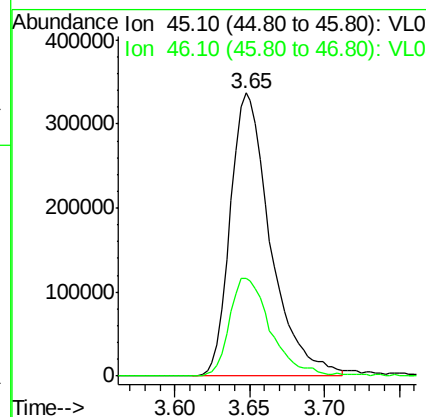
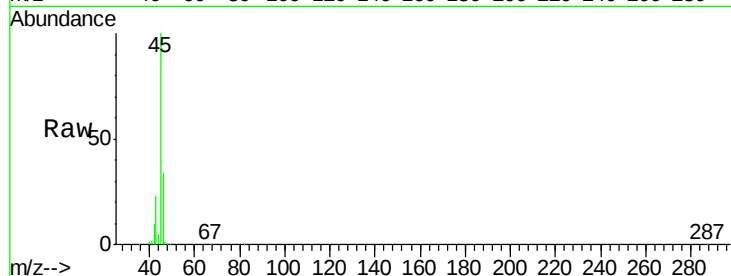
#13
Ethanol
Concen: 48.266 ppbv
RT: 3.65 min Scan# 221
Delta R.T. 0.01 min
Lab File: VL033629.D
Acq: 2 May 2019 15:43

Instrument :
MSVOA_L
ClientSampleId :
A-2

Tot Ion	45	46	Ratio	Lower	Upper
45	100				
46	36.1			14.6	58.2

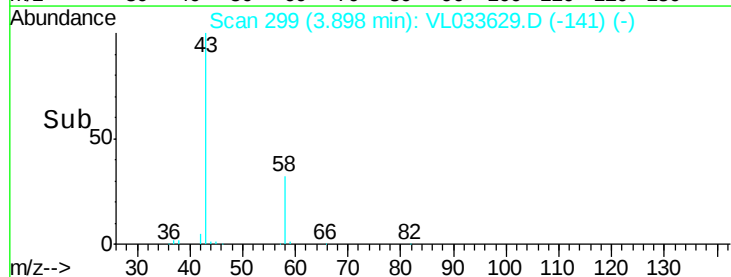
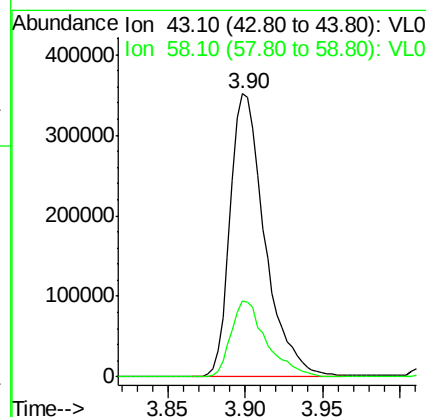
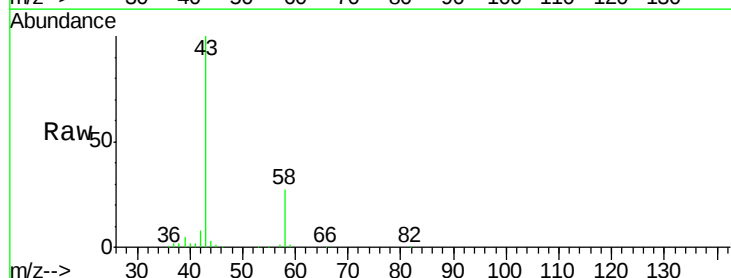
Manual Integrations
APPROVED

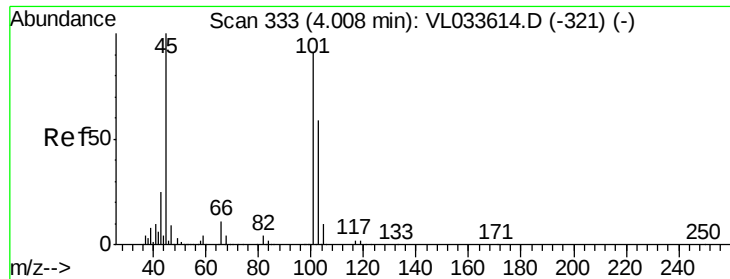
MMDadoda
5/4/2019 7:18:32 AM



#15
Acetone
Concen: 5.316 ppbv
RT: 3.90 min Scan# 299
Delta R.T. 0.01 min
Lab File: VL033629.D
Acq: 2 May 2019 15:43

Tgt Ion	43	58	Ratio	Lower	Upper
43	100				
58	27.9			21.2	31.8





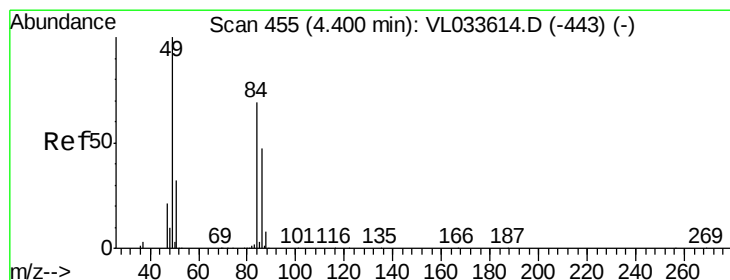
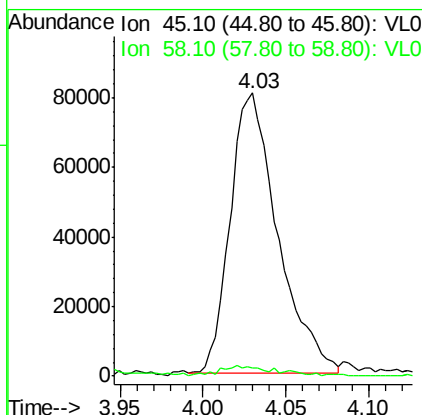
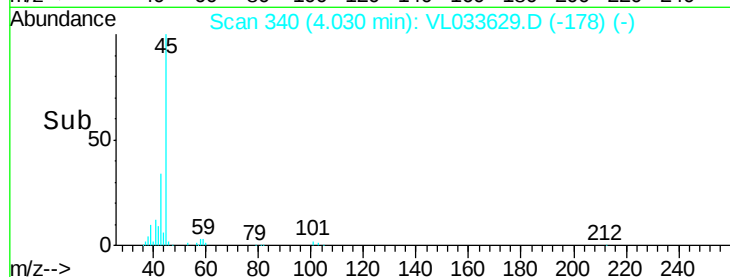
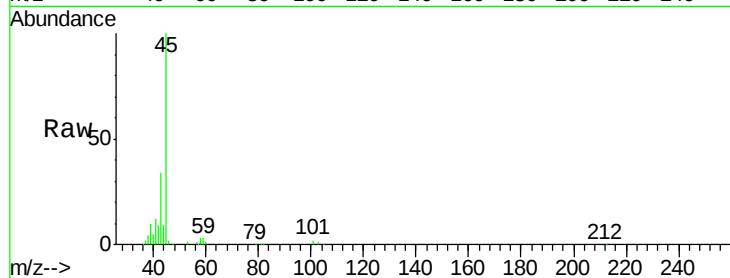
#19
Isopropyl Alcohol
Concen: 2.280 ppbv
RT: 4.03 min Scan# 340
Delta R.T. 0.02 min
Lab File: VL033629.D
Acq: 2 May 2019 15:43

Instrument :
MSVOA_L
ClientSampleId :
A-2

Tot Ion	Ratio	Lower	Upper
45	100		
58	4.8	1.8	2.6#

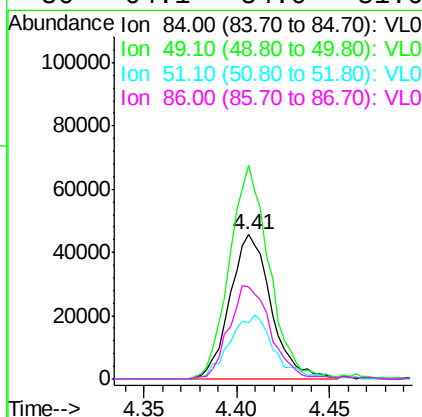
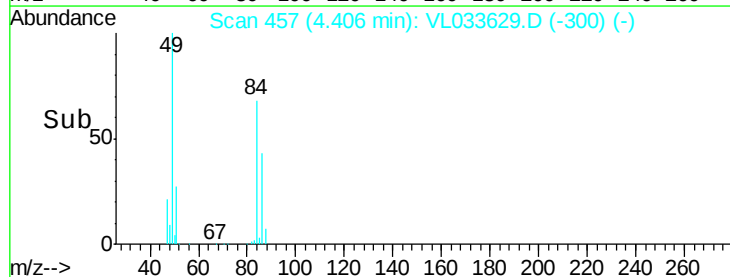
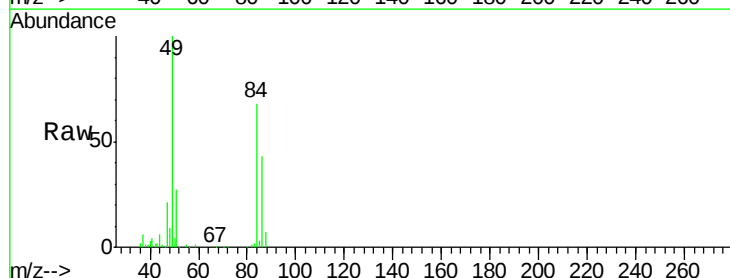
Manual Integrations
APPROVED

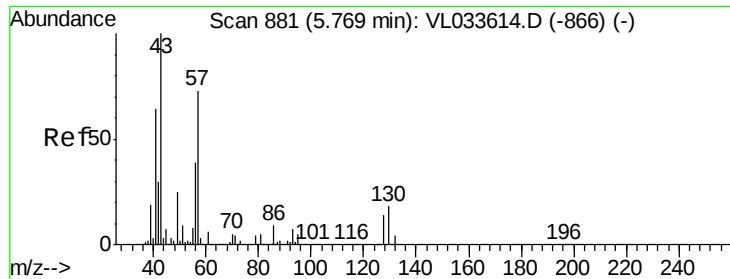
MMDadoda
5/4/2019 7:18:32 AM



#20
Methylene Chloride
Concen: 1.771 ppbv
RT: 4.41 min Scan# 457
Delta R.T. 0.01 min
Lab File: VL033629.D
Acq: 2 May 2019 15:43

Tgt Ion	Ratio	Lower	Upper
84	100		
49	147.8	116.2	174.2
51	39.2	37.0	55.6
86	64.1	54.0	81.0





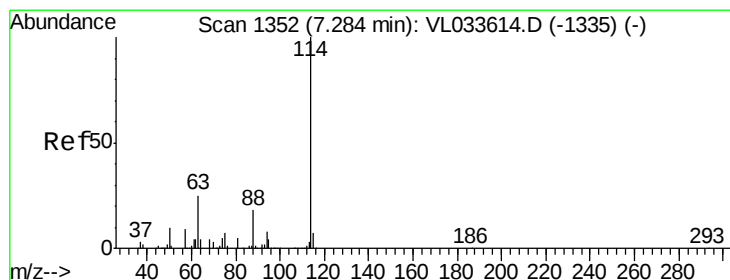
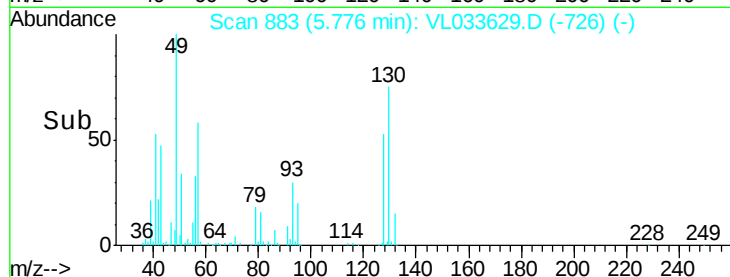
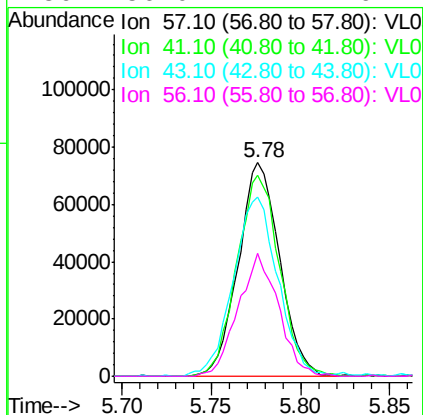
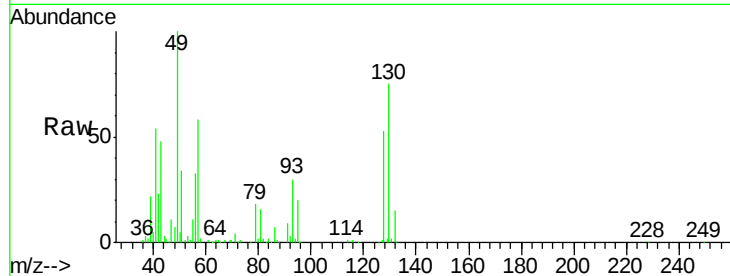
#26
Hexane
Concen: 1.473 ppbv
RT: 5.78 min Scan# 883
Delta R.T. 0.01 min
Lab File: VL033629.D
Acq: 2 May 2019 15:43

Instrument :
MSVOA_L
ClientSampleId :
A-2

Tot Ion	Ratio	Lower	Upper
57	100		
41	97.6	70.6	106.0
43	91.2	186.0	279.0#
56	56.0	42.7	64.1

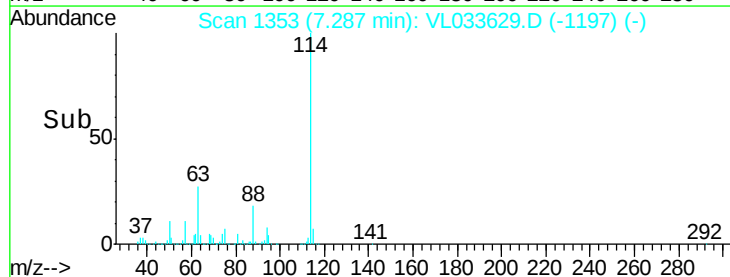
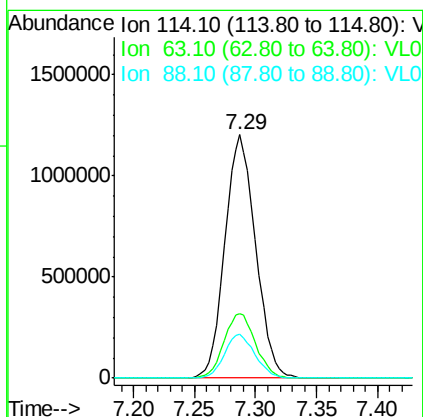
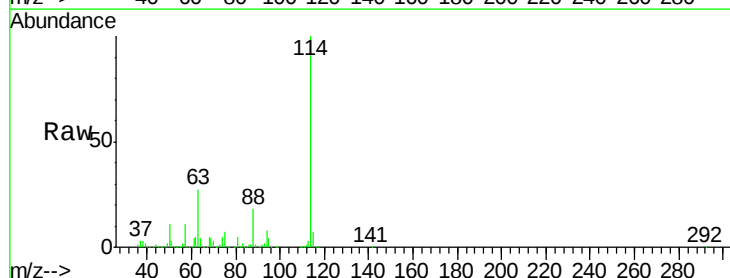
Manual Integrations
APPROVED

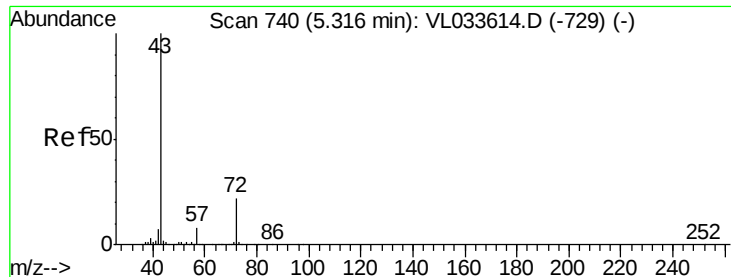
MMDadoda
5/4/2019 7:18:32 AM



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.29 min Scan# 1353
Delta R.T. 0.00 min
Lab File: VL033629.D
Acq: 2 May 2019 15:43

Tgt Ion	Ratio	Lower	Upper
114	100		
63	27.2	21.1	31.7
88	17.9	14.2	21.4





#34

2-Butanone

Concen: 0.205 ppbv

RT: 5.34 min Scan# 746

Delta R.T. 0.02 min

Lab File: VL033629.D

Acq: 2 May 2019 15:43

Instrument :

MSVOA_L

ClientSampleId :

A-2

Tot Ion: 43 Resp: 26640

Ion Ratio Lower Upper

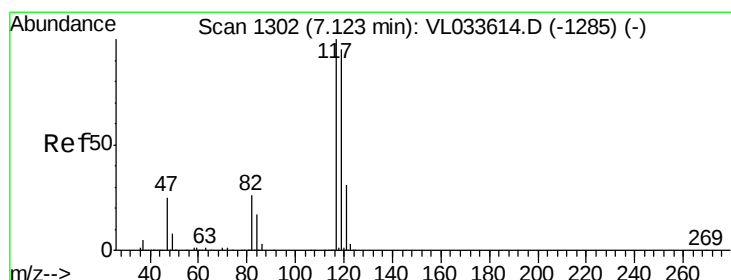
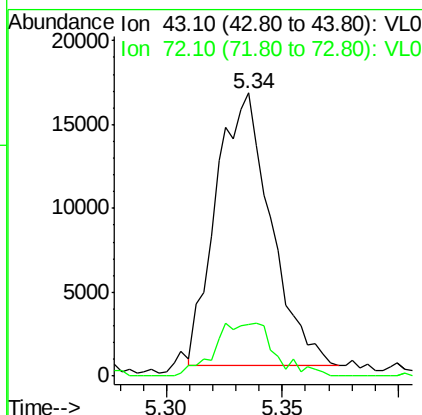
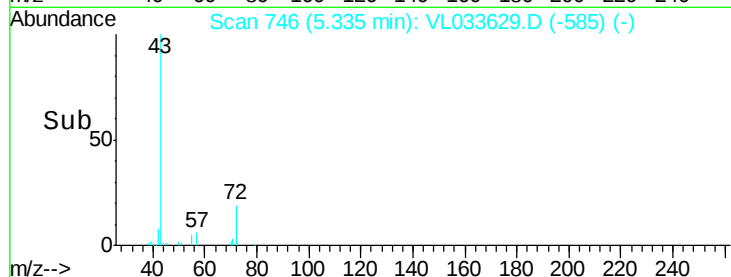
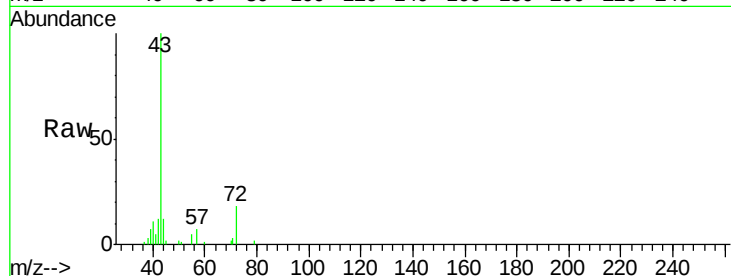
43 100

72 21.4 17.8 26.8

Manual Integrations
APPROVED

MMDadoda

5/4/2019 7:18:32 AM



#35

Carbon Tetrachloride

Concen: 0.068 ppbv m

RT: 7.13 min Scan# 1303

Delta R.T. 0.00 min

Lab File: VL033629.D

Acq: 2 May 2019 15:43

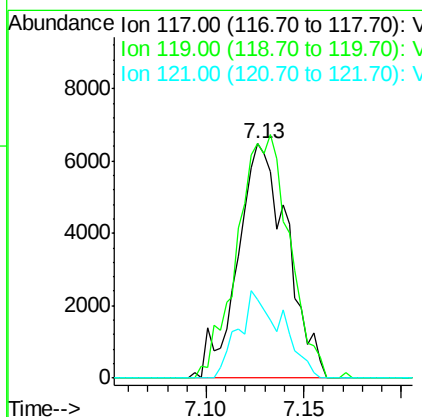
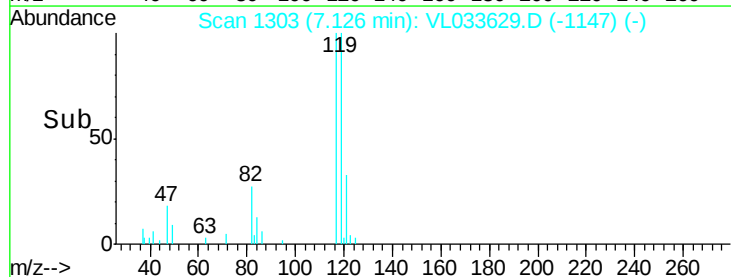
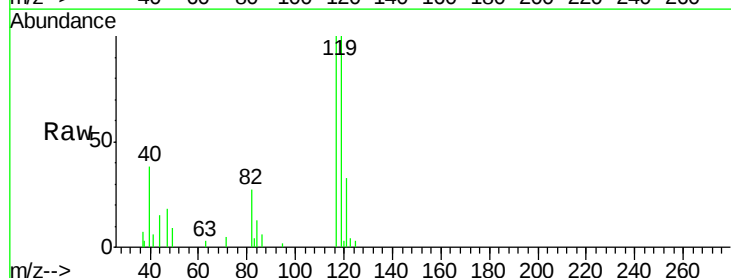
Tgt Ion: 117 Resp: 11408

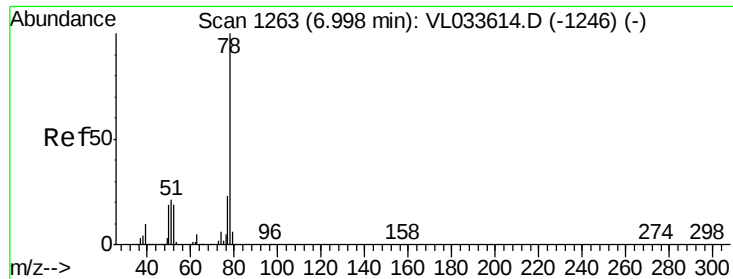
Ion Ratio Lower Upper

117 100

119 100.3 76.2 114.4

121 33.3 24.9 37.3





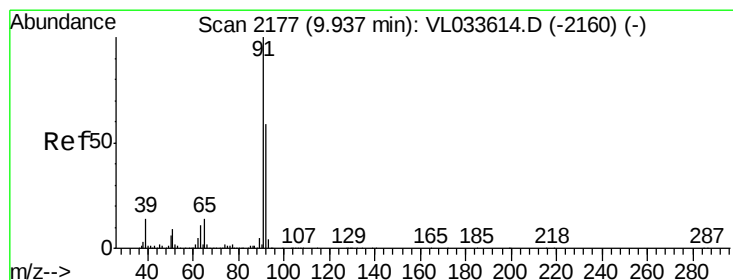
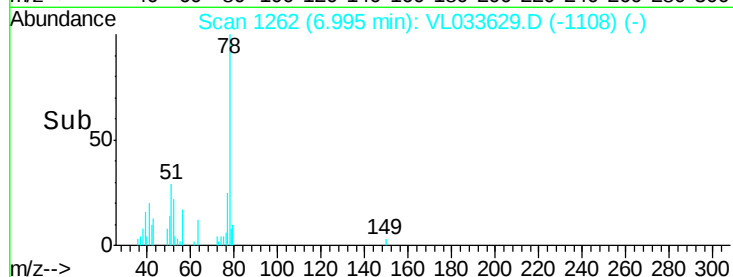
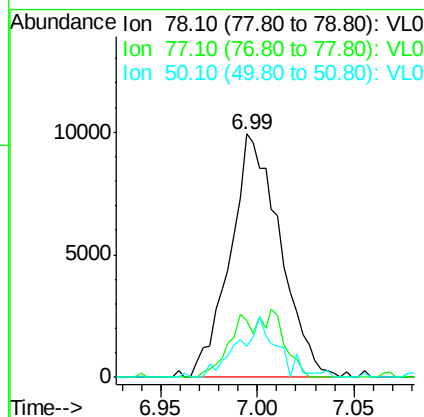
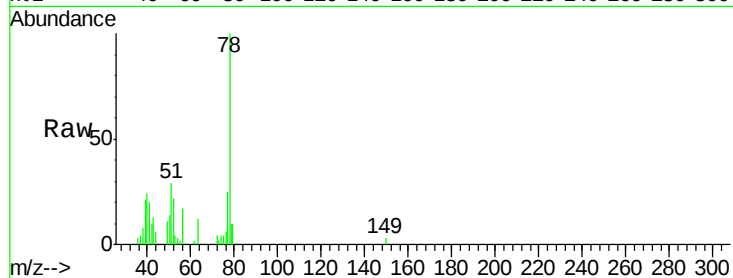
#36
Benzene
Concen: 0.099 ppbv
RT: 6.99 min Scan# 1262
Delta R.T. -0.00 min
Lab File: VL033629.D
Acq: 2 May 2019 15:43

Instrument :
MSVOA_L
ClientSampled :
A-2

Tot Ion	Ratio	Lower	Upper
78	100		
77	23.1	18.1	27.1
50	12.7	15.1	22.7#

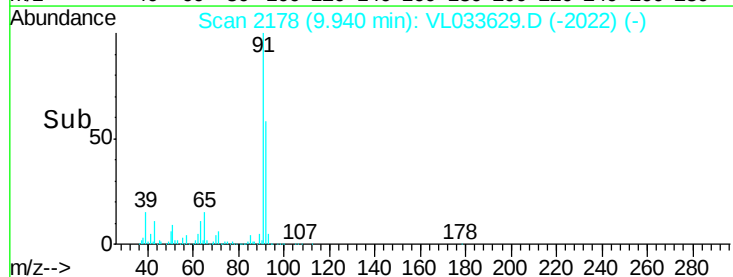
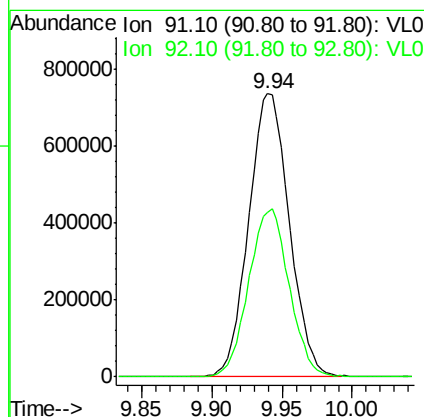
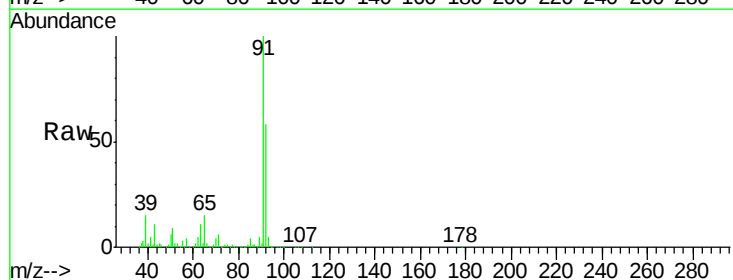
Manual Integrations
APPROVED

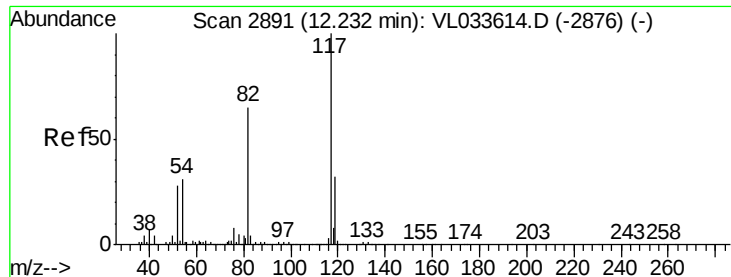
MMDadoda
5/4/2019 7:18:32 AM



#53
Toluene
Concen: 6.519 ppbv
RT: 9.94 min Scan# 2178
Delta R.T. 0.00 min
Lab File: VL033629.D
Acq: 2 May 2019 15:43

Tgt Ion	Ratio	Lower	Upper
91	100		
92	59.2	47.8	71.6





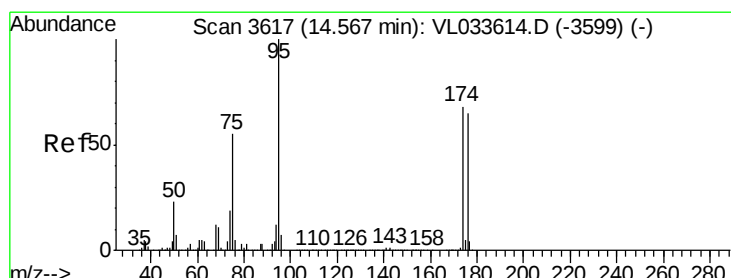
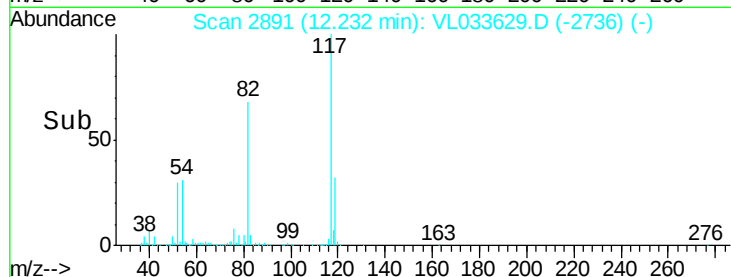
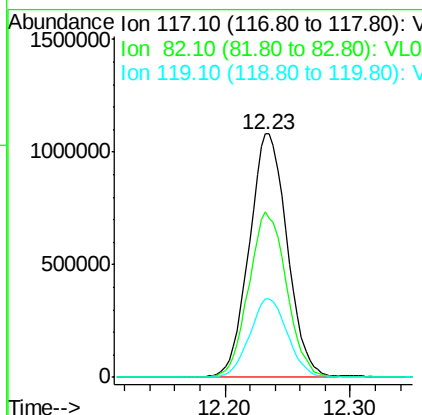
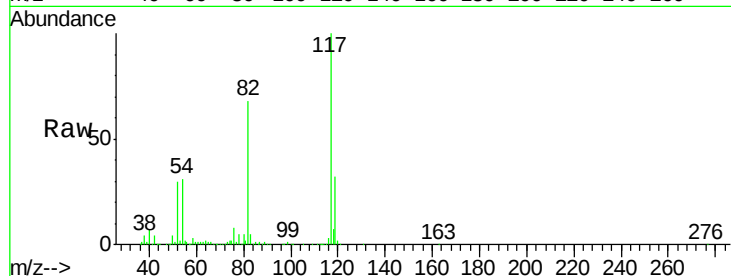
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.23 min Scan# 2891
Delta R.T. -0.00 min
Lab File: VL033629.D
Acq: 2 May 2019 15:43

Instrument :
MSVOA_L
ClientSampled :
A-2

Tot Ion	Ratio	Lower	Upper
117	100		
82	67.7	52.6	78.8
119	32.3	28.3	42.5

Manual Integrations
APPROVED

MMDadoda
5/4/2019 7:18:32 AM



#68
1-Bromo-4-Fluorobenzene
Concen: 10.327 ppbv
RT: 14.57 min Scan# 3618
Delta R.T. 0.00 min
Lab File: VL033629.D
Acq: 2 May 2019 15:43

Tgt Ion	Ratio	Lower	Upper
95	100		
174	66.5	53.9	80.9
175	4.8	4.0	6.0

