Quantitation Report (QT Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL100719\
Data File : VL034235.D
Acq On : 7 Oct 2019 23:37
Operator : SY/AP
Sample : K5225-05
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : IA1

Manual Integrations APPROVED
MMDadoda
10/11/2019 5:05:33 PM

Quant Time: Oct 09 03:50:18 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL091719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Sep 1
QLast Update : Wed Sep 18 12:53:31 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	5.69	49	1132941	10.00	ppbv		-0.02
33) 1,4-Difluorobenzene	7.21	114	1853584	10.00	ppbv		-0.02
55) Chlorobenzene-d5	12.15	117	1894360	10.00	ppbv		-0.02
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	14.49	95	1719512	10.45	ppbv		-0.02
Spiked Amount 10.000	Range 65 - 135		Recovery = 104.50%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.03	85	100733	0.602	ppbv		97
3) Chlorodifluoromethane	2.97	51	1496322	11.264	ppbv		98
4) Chloromethane	3.12	50	38120	0.488	ppbv		89
9) Propene	3.00	41	66091m	1.008	ppbv		
11) Trichlorofluoromethane	3.95	101	53536	0.351	ppbv		96
13) Ethanol	3.60	45	793861	50.022	ppbv		96
15) Acetone	3.84	43	982296	6.469	ppbv		97
19) Isopropyl Alcohol	3.97	45	266145	2.850	ppbv	#	96
20) Methylene Chloride	4.35	84	66428	1.517	ppbv		95
26) Hexane	5.71	57	99627	0.834	ppbv	#	66
29) Chloroform	5.77	83	17298	0.101	ppbv		87
34) 2-Butanone	5.27	43	104155	0.550	ppbv		98
35) Carbon Tetrachloride	7.05	117	11336m	0.074	ppbv		
36) Benzene	6.93	78	37826	0.185	ppbv	#	86
37) 1,2-Dichloroethane	6.34	62	13322m	0.091	ppbv		
53) Toluene	9.86	91	156408	0.699	ppbv		97
58) Ethyl Benzene	12.78	91	21219m	0.069	ppbv		
59) m/p-Xylene	13.04	91	49879m	0.197	ppbv		
60) o-Xylene	13.76	91	23736m	0.094	ppbv		
74) 1,2,4-Trimethylbenzene	16.83	105	38965	0.133	ppbv	#	81
76) 1,4-Dichlorobenzene	17.22	146	2411989	14.962	ppbv		98
79) Naphthalene	22.32	128	45828m	0.177	ppbv		

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

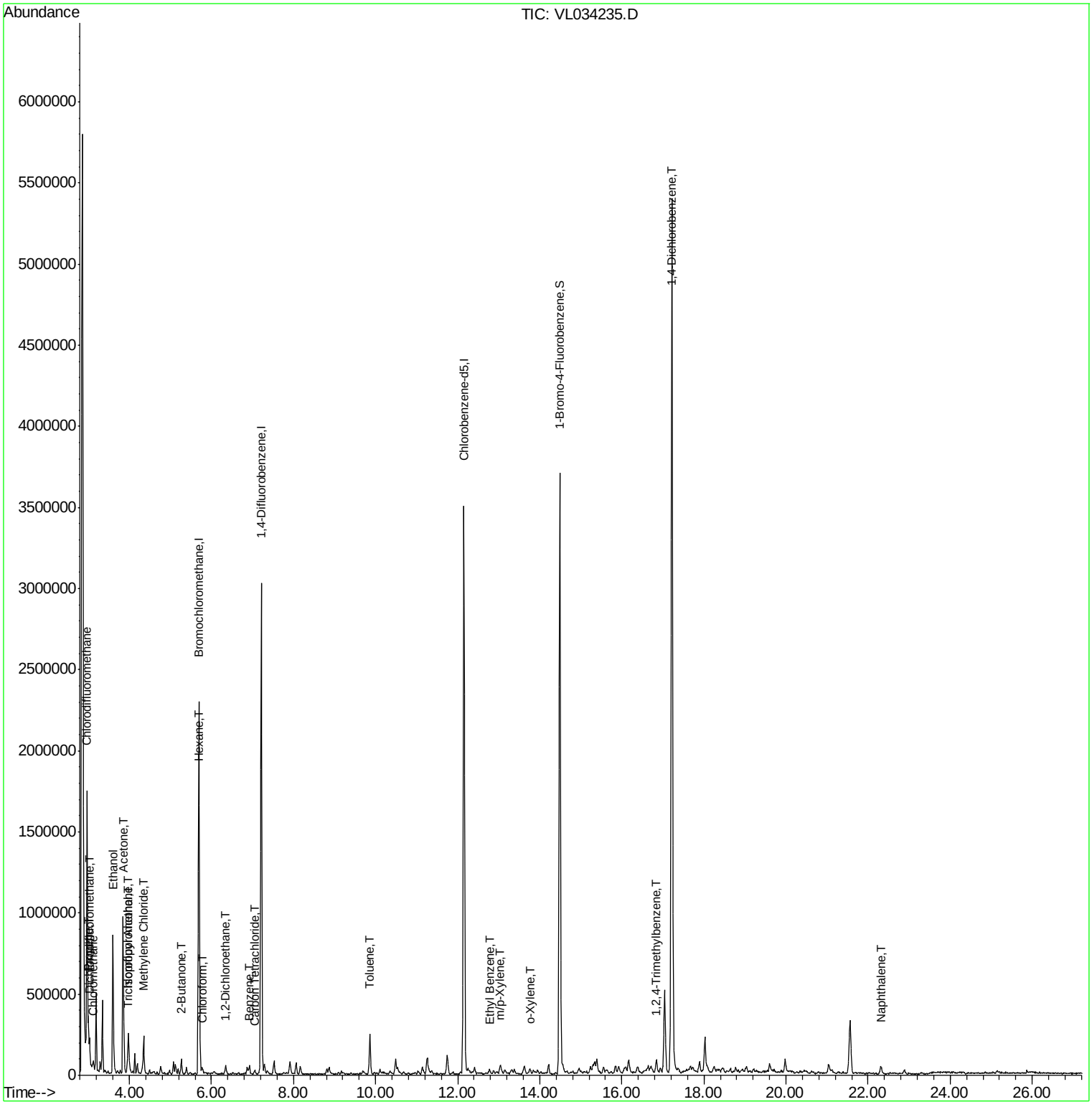
Quantitation Report (QT Reviewed)

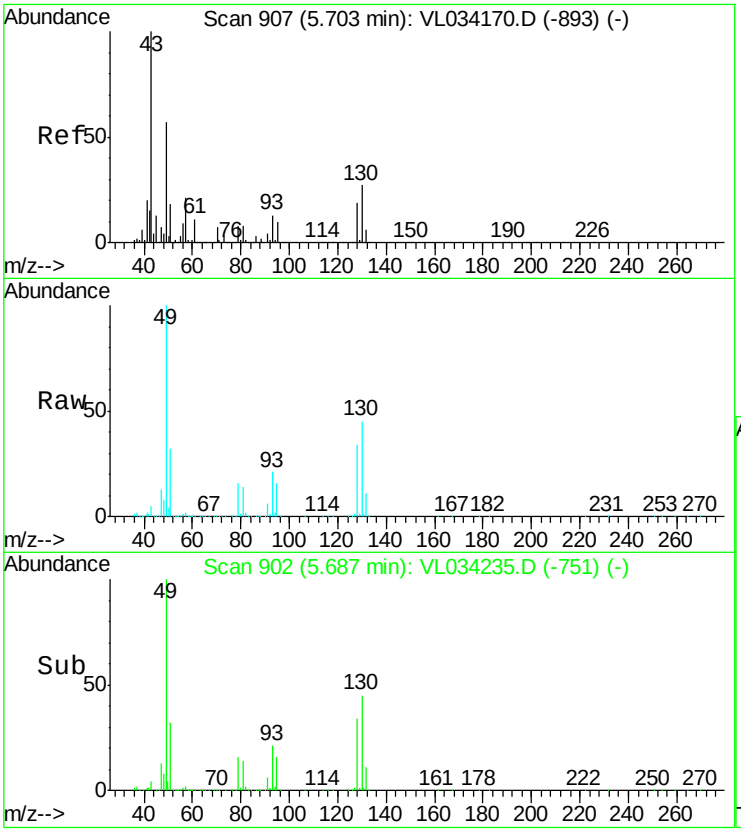
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL100719\
Data File : VL034235.D
Acq On : 7 Oct 2019 23:37
Operator : SY/AP
Sample : K5225-05
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 09 03:50:18 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL091719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Sep
QLast Update : Wed Sep 18 12:53:31 2019
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
IA1

Manual Integrations APPROVED
MMDadoda
10/11/2019 5:05:33 PM

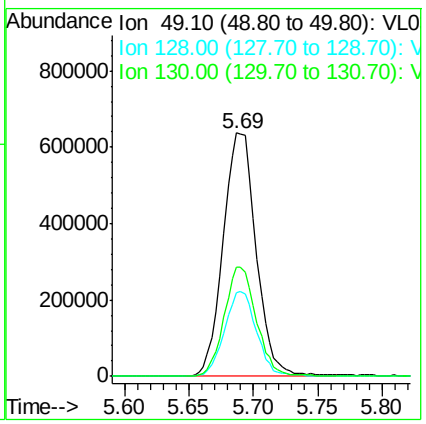




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.69 min Scan# 902
Delta R.T. -0.02 min
Lab File: VL034235.D
Acq: 7 Oct 2019 23:37

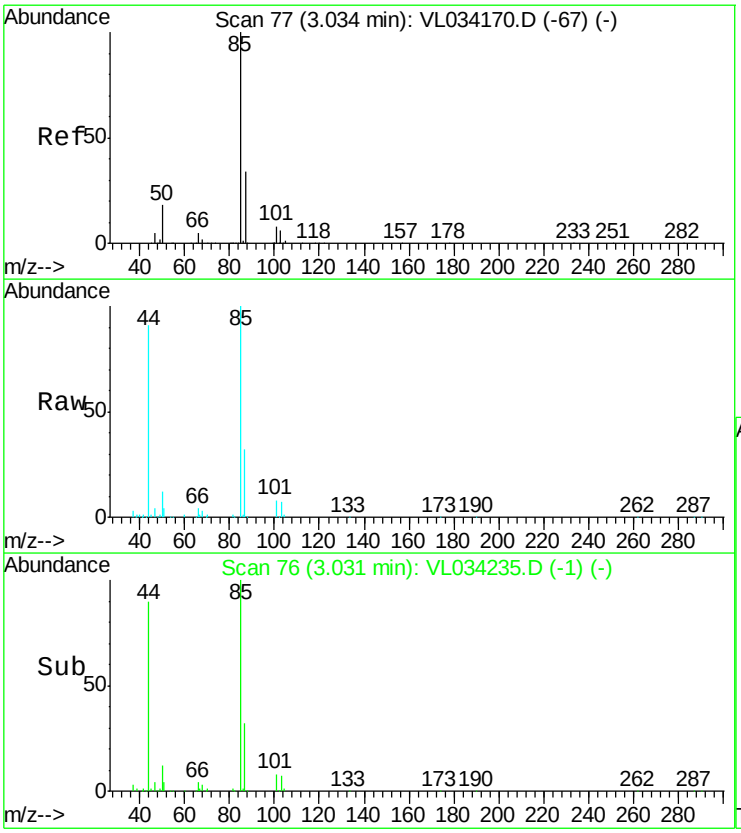
Tgt Ion: 49 Resp: 1132941

Ion	Ratio	Lower	Upper
49	100		
128	34.0	17.6	52.9
130	44.2	22.3	66.9



Instrument :
MSVOA_L
ClientSampleId :
IA1

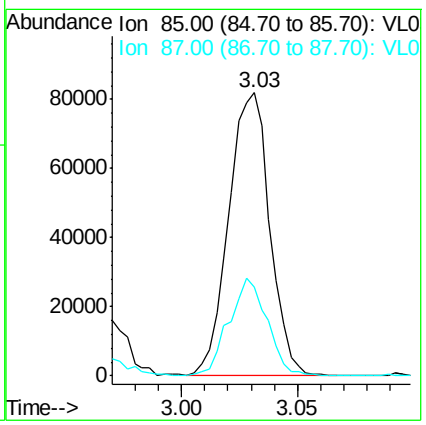
Manual Integrations APPROVED
MMDadoda
10/11/2019 5:05:33 PM

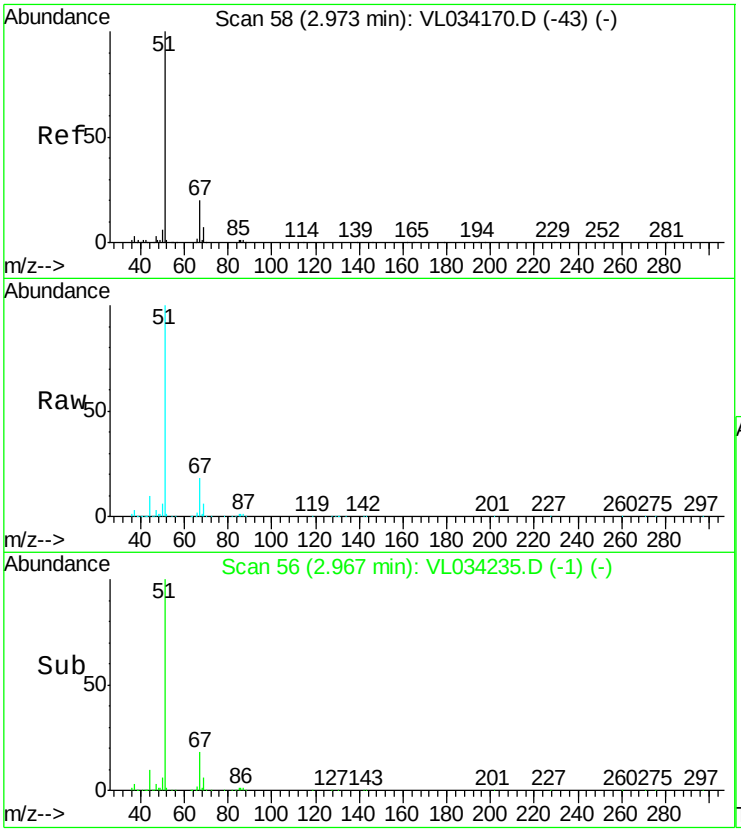


#2
Dichlorodifluoromethane
Concen: 0.602 ppbv
RT: 3.03 min Scan# 76
Delta R.T. -0.00 min
Lab File: VL034235.D
Acq: 7 Oct 2019 23:37

Tgt Ion: 85 Resp: 100733

Ion	Ratio	Lower	Upper
85	100		
87	32.0	27.2	40.8

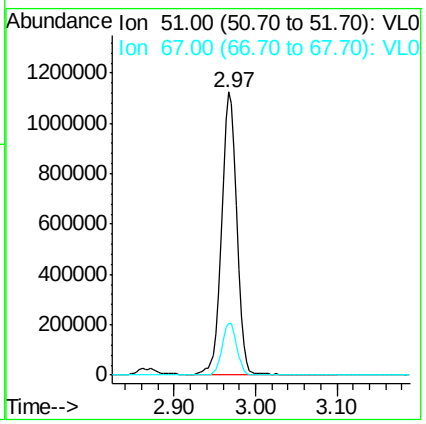




#3
Chlorodifluoromethane
Concen: 11.264 ppbv
RT: 2.97 min Scan# 56
Delta R.T. -0.01 min
Lab File: VL034235.D
Acq: 7 Oct 2019 23:37

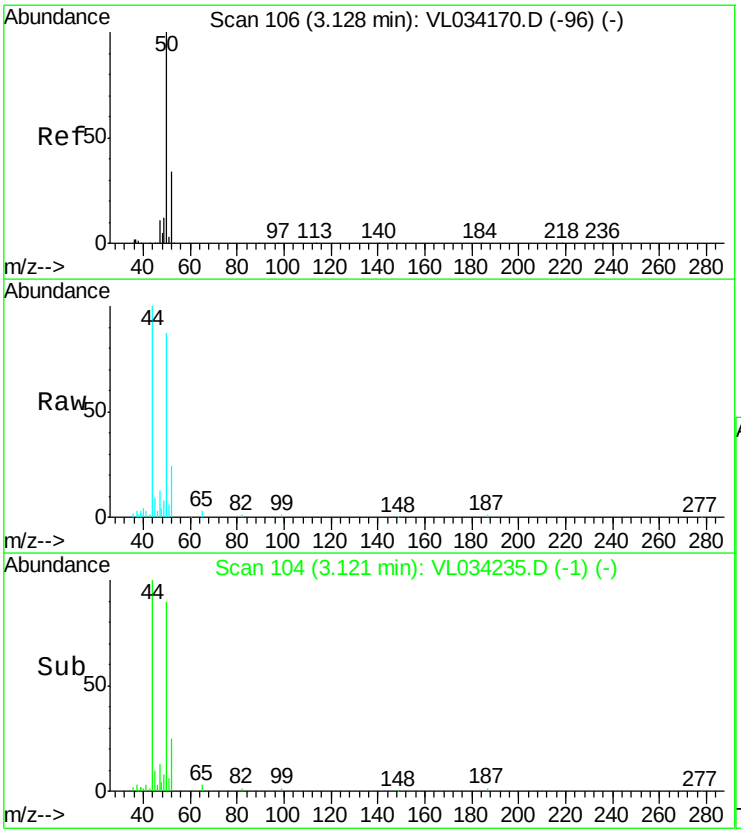
Tgt Ion: 51 Resp: 1496322

Ion	Ratio	Lower	Upper
51	100		
67	17.7	14.8	22.2



Instrument :
MSVOA_L
ClientSampleId :
IA1

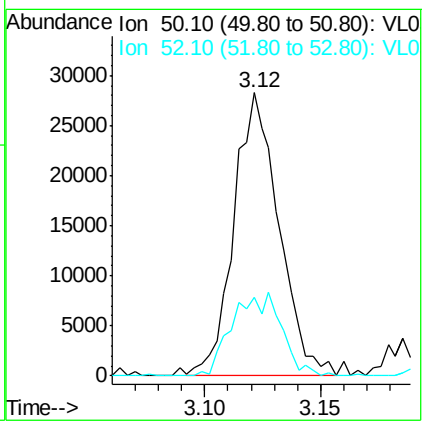
Manual Integrations APPROVED
MMDadoda
10/11/2019 5:05:33 PM

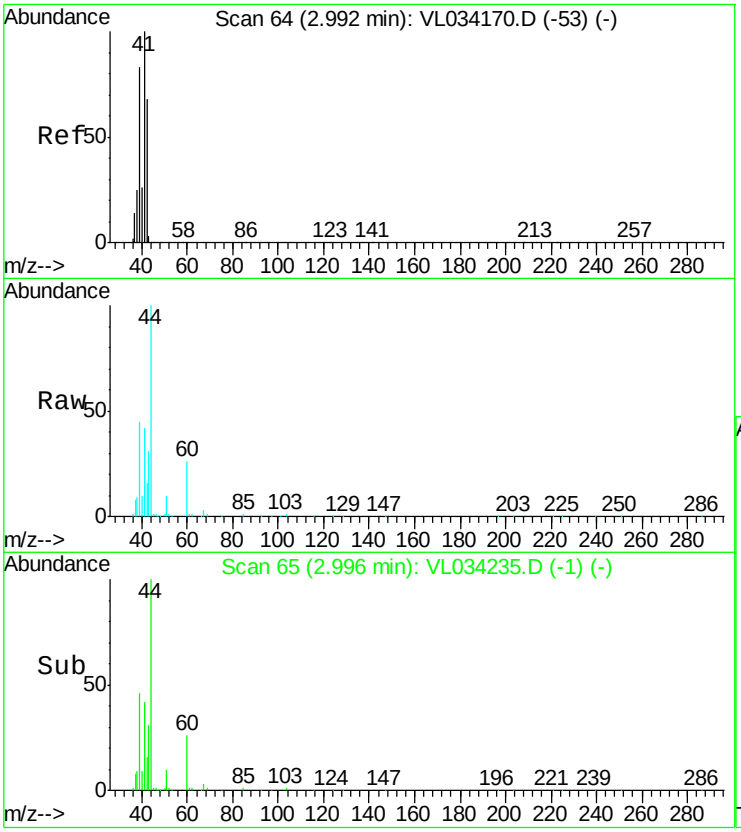


#4
Chloromethane
Concen: 0.488 ppbv
RT: 3.12 min Scan# 104
Delta R.T. -0.01 min
Lab File: VL034235.D
Acq: 7 Oct 2019 23:37

Tgt Ion: 50 Resp: 38120

Ion	Ratio	Lower	Upper
50	100		
52	27.7	27.1	40.7

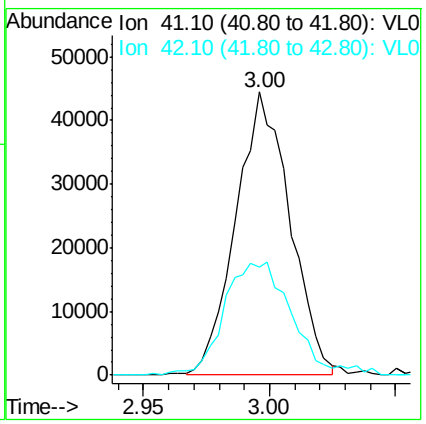




#9
Propene
Concen: 1.008 ppbv m
RT: 3.00 min Scan# 65
Delta R.T. 0.00 min
Lab File: VL034235.D
Acq: 7 Oct 2019 23:37

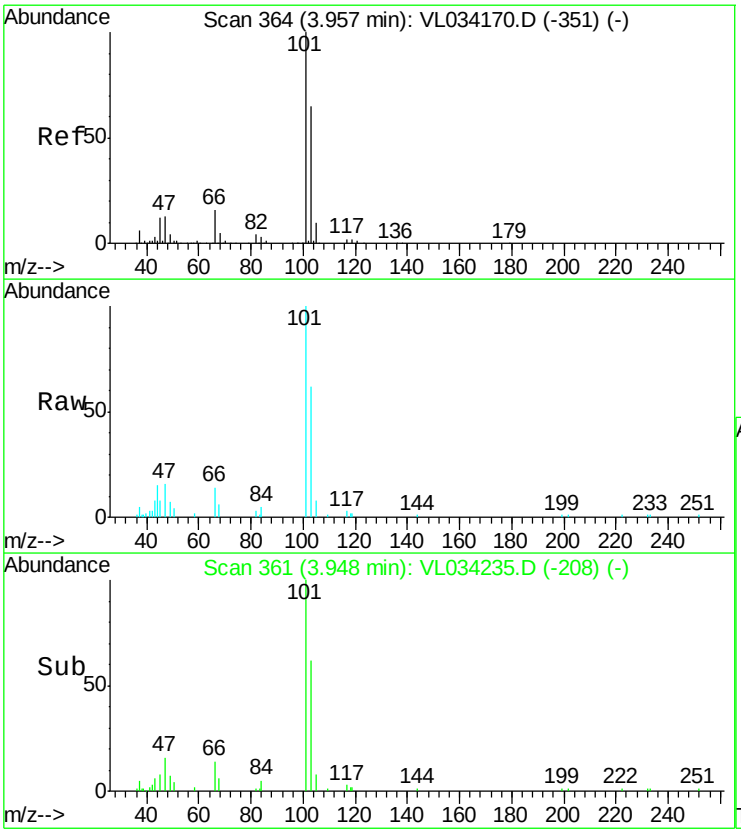
Tgt Ion: 41 Resp: 66091

Ion	Ratio	Lower	Upper
41	100		
42	117.8	55.8	83.6#



Instrument :
MSVOA_L
ClientSampleId :
IA1

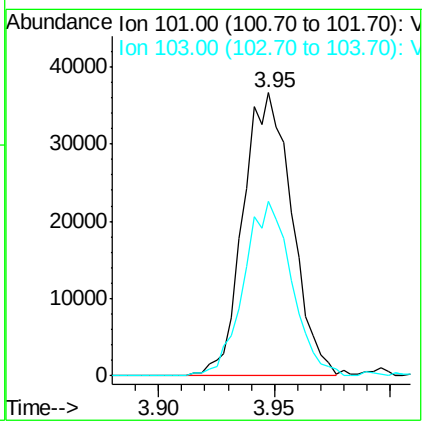
Manual Integrations APPROVED
MMDadoda
10/11/2019 5:05:33 PM

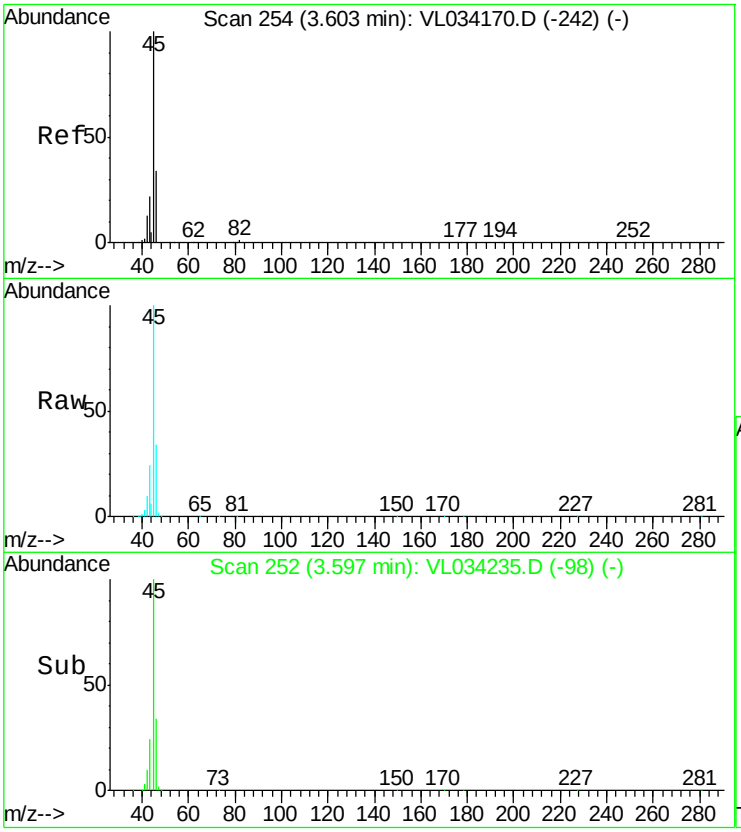


#11
Trichlorofluoromethane
Concen: 0.351 ppbv
RT: 3.95 min Scan# 361
Delta R.T. -0.01 min
Lab File: VL034235.D
Acq: 7 Oct 2019 23:37

Tgt Ion:101 Resp: 53536

Ion	Ratio	Lower	Upper
101	100		
103	61.8	52.1	78.1

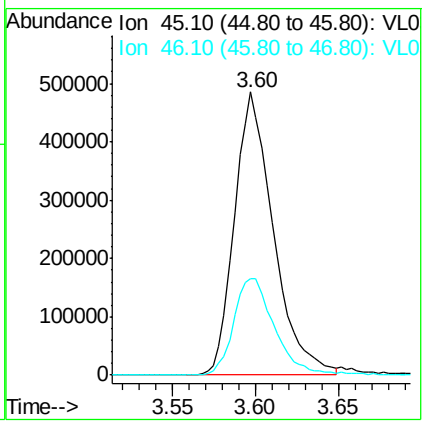




#13
Ethanol
Concen: 50.022 ppbv
RT: 3.60 min Scan# 252
Delta R.T. -0.01 min
Lab File: VL034235.D
Acq: 7 Oct 2019 23:37

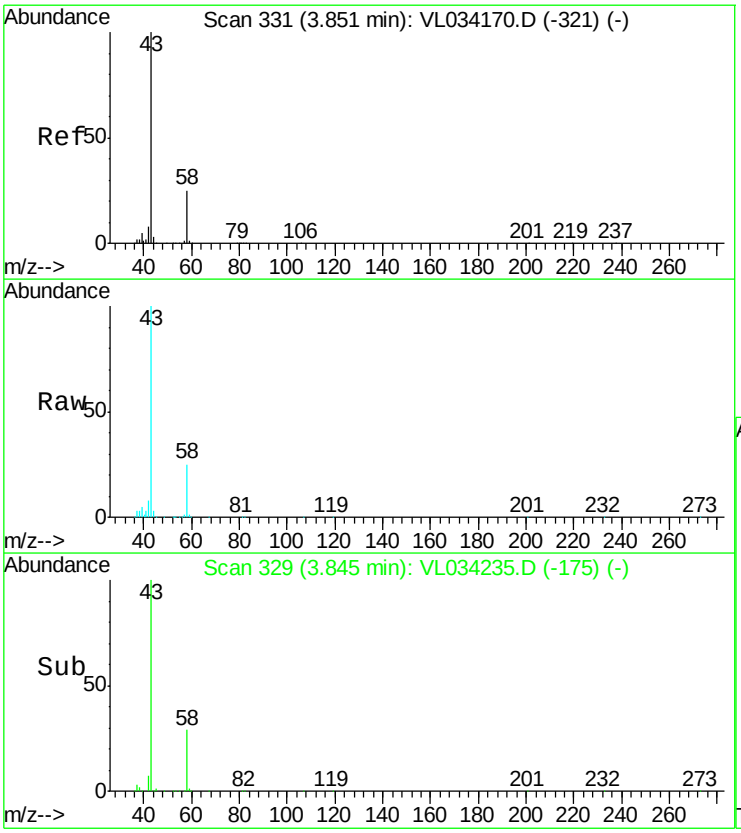
Tgt Ion: 45 Resp: 793861

Ion	Ratio	Lower	Upper
45	100		
46	36.1	15.5	61.9



Instrument :
MSVOA_L
ClientSampleId :
IA1

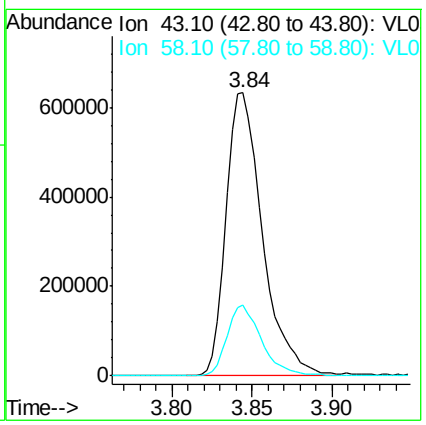
Manual Integrations APPROVED
MMDadoda
10/11/2019 5:05:33 PM

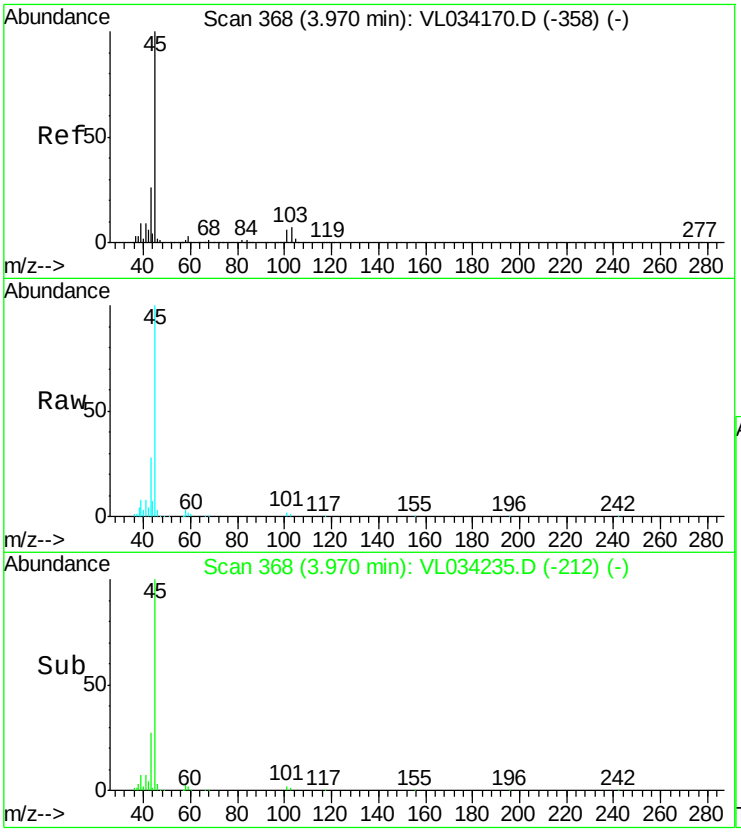


#15
Acetone
Concen: 6.469 ppbv
RT: 3.84 min Scan# 329
Delta R.T. -0.01 min
Lab File: VL034235.D
Acq: 7 Oct 2019 23:37

Tgt Ion: 43 Resp: 982296

Ion	Ratio	Lower	Upper
43	100		
58	23.9	20.5	30.7





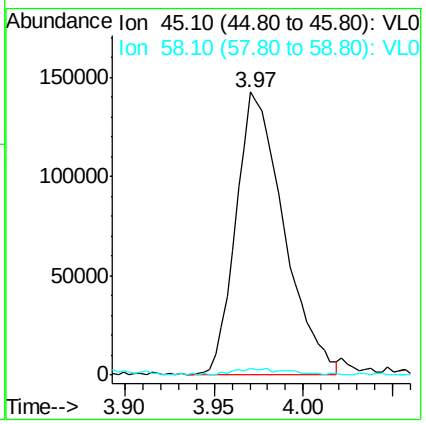
#19
Isopropyl Alcohol
Concen: 2.850 ppbv
RT: 3.97 min Scan# 368
Delta R.T. 0.00 min
Lab File: VL034235.D
Acq: 7 Oct 2019 23:37

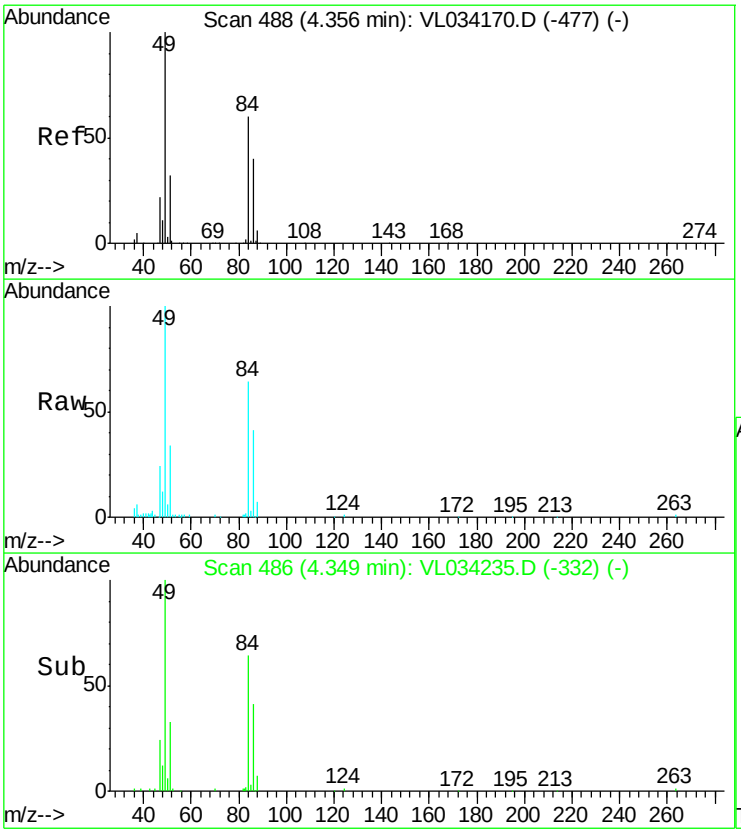
Tgt Ion: 45 Resp: 266145

Ion	Ratio	Lower	Upper
45	100		
58	3.1	1.4	2.0#

Instrument :
MSVOA_L
ClientSampleId :
IA1

Manual Integrations APPROVED
MMDadoda
10/11/2019 5:05:33 PM

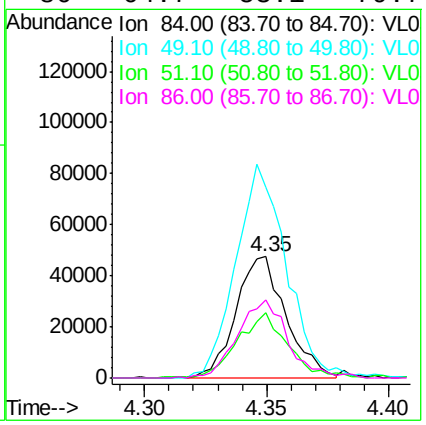


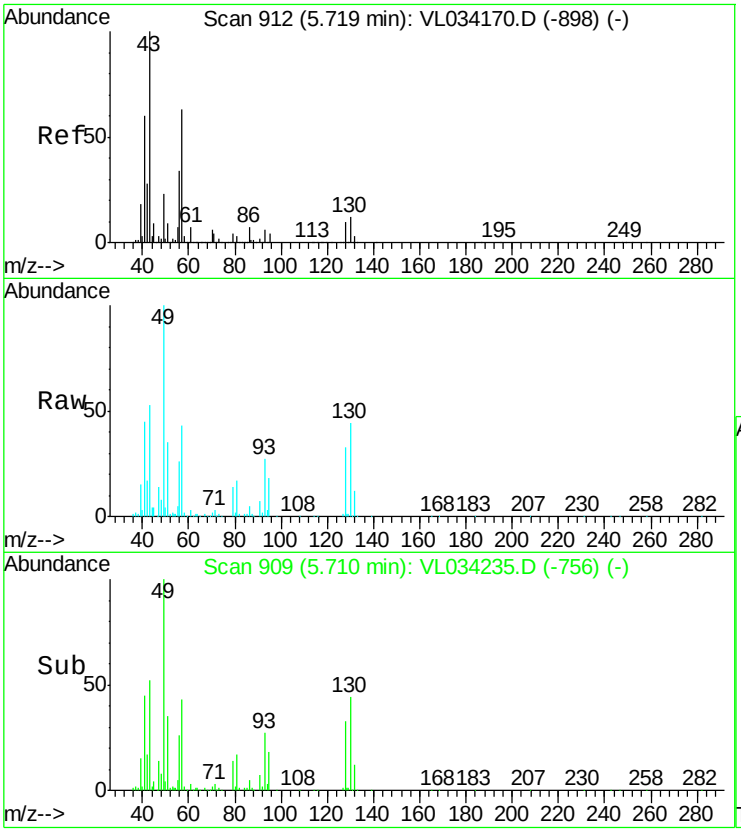


#20
Methylene Chloride
Concen: 1.517 ppbv
RT: 4.35 min Scan# 486
Delta R.T. -0.01 min
Lab File: VL034235.D
Acq: 7 Oct 2019 23:37

Tgt Ion: 84 Resp: 66428

Ion	Ratio	Lower	Upper
84	100		
49	158.1	133.8	200.8
51	52.8	43.6	65.4
86	64.7	53.1	79.7

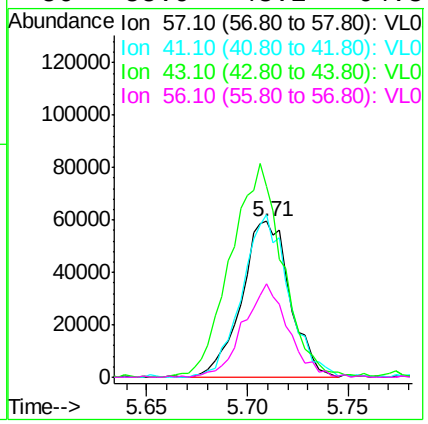




#26
Hexane
Concen: 0.834 ppbv
RT: 5.71 min Scan# 909
Delta R.T. -0.01 min
Lab File: VL034235.D
Acq: 7 Oct 2019 23:37

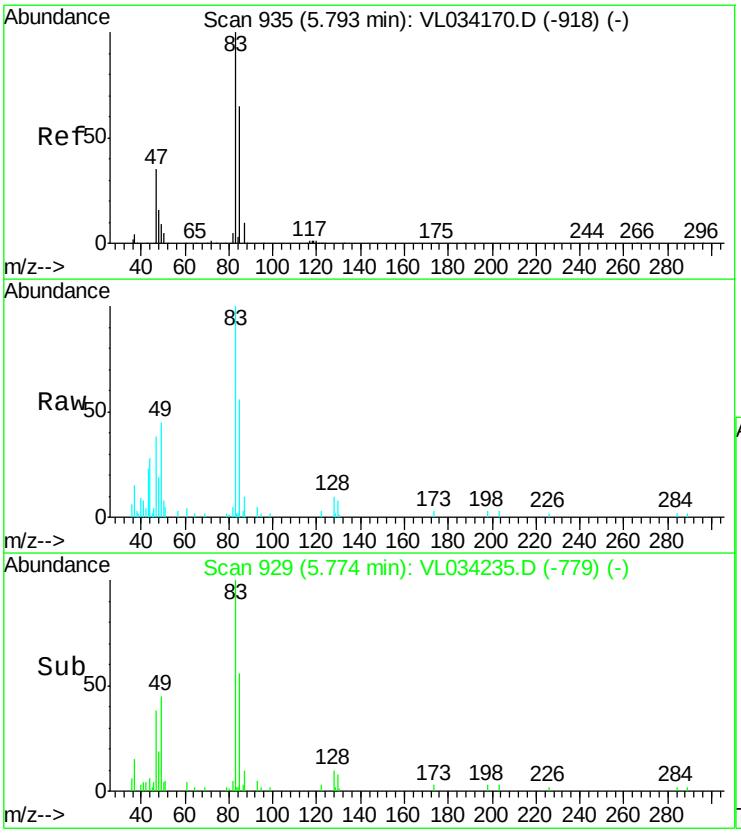
Tgt Ion: 57 Resp: 99627

Ion	Ratio	Lower	Upper
57	100		
41	101.8	78.5	117.7
43	147.4	189.5	284.3#
56	55.9	43.2	64.8



Instrument :
MSVOA_L
ClientSampleId :
IA1

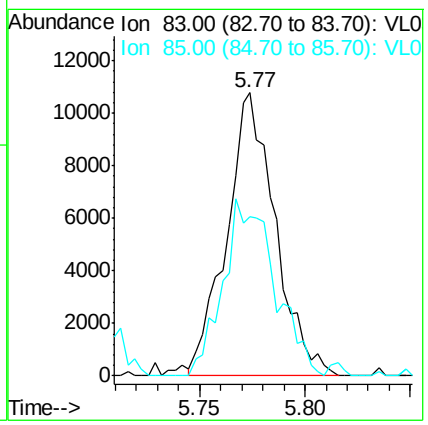
Manual Integrations APPROVED
MMDadoda
10/11/2019 5:05:33 PM

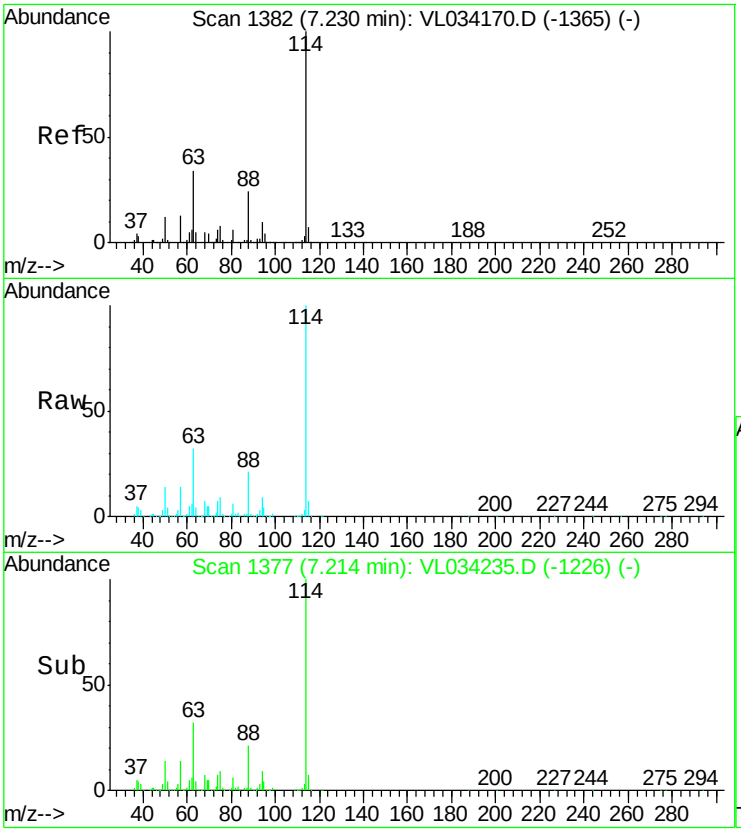


#29
Chloroform
Concen: 0.101 ppbv
RT: 5.77 min Scan# 929
Delta R.T. -0.02 min
Lab File: VL034235.D
Acq: 7 Oct 2019 23:37

Tgt Ion: 83 Resp: 17298

Ion	Ratio	Lower	Upper
83	100		
85	55.4	52.3	78.5

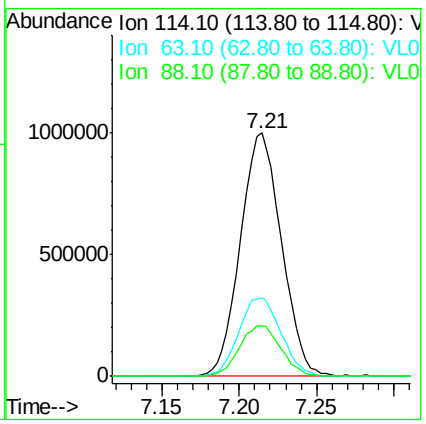




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.21 min Scan# 1377
Delta R.T. -0.02 min
Lab File: VL034235.D
Acq: 7 Oct 2019 23:37

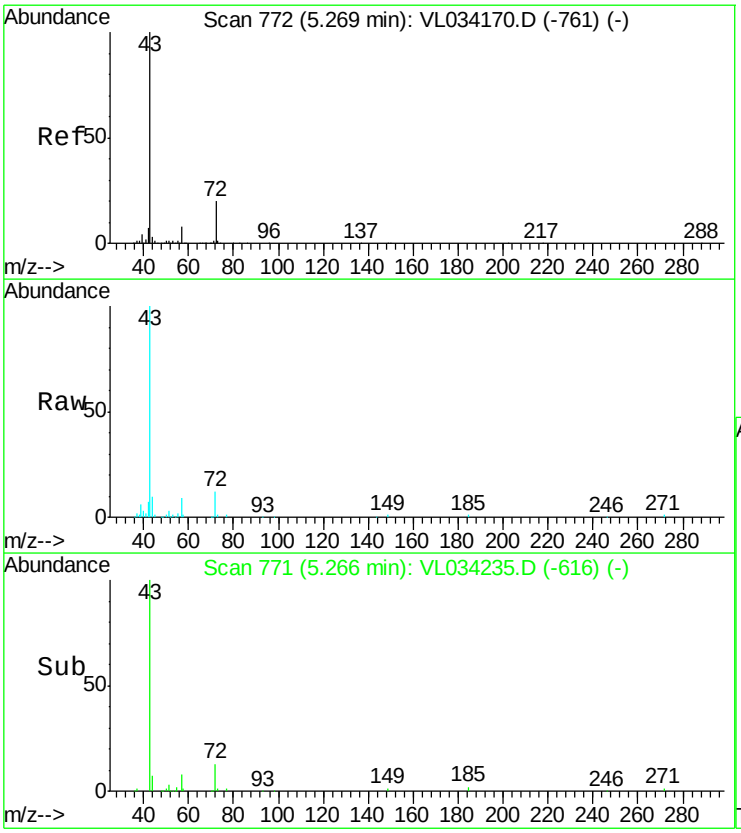
Tgt Ion:114 Resp: 1853584

Ion	Ratio	Lower	Upper
114	100		
63	33.4	27.8	41.6
88	21.2	17.1	25.7



Instrument :
MSVOA_L
ClientSampleId :
IA1

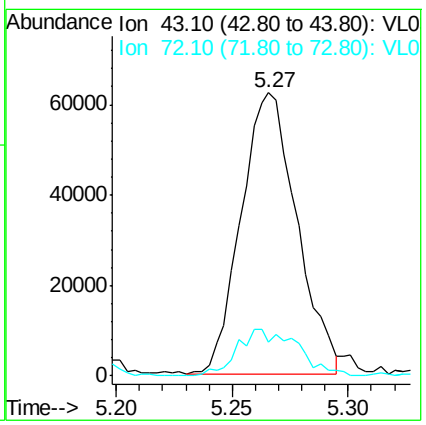
Manual Integrations APPROVED
MMDadoda
10/11/2019 5:05:33 PM

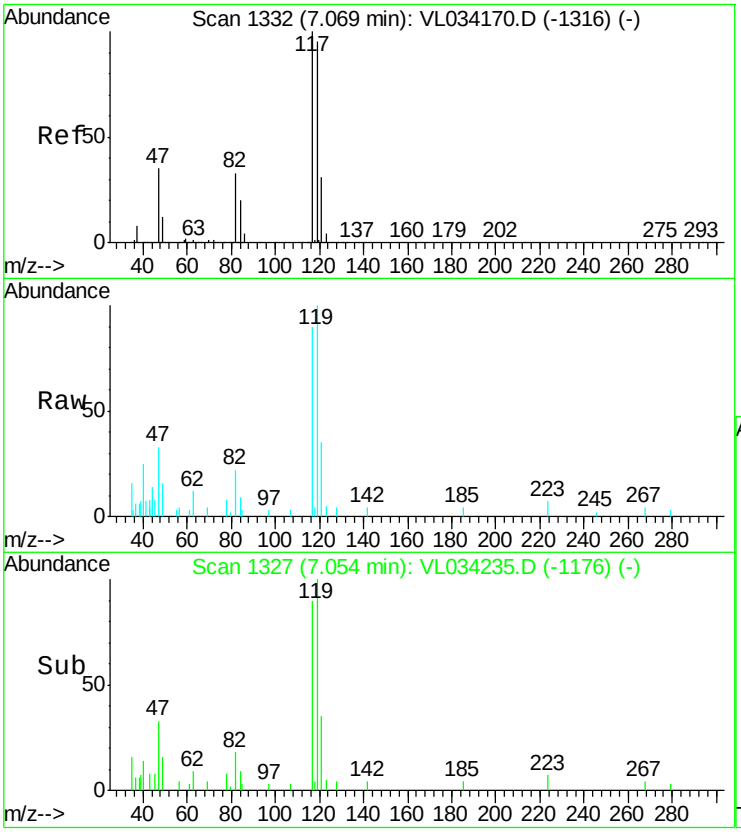


#34
2-Butanone
Concen: 0.550 ppbv
RT: 5.27 min Scan# 771
Delta R.T. -0.00 min
Lab File: VL034235.D
Acq: 7 Oct 2019 23:37

Tgt Ion: 43 Resp: 104155

Ion	Ratio	Lower	Upper
43	100		
72	18.0	15.0	22.6

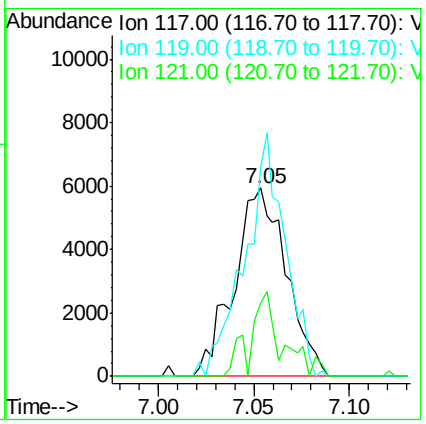




#35
Carbon Tetrachloride
Concen: 0.074 ppbv m
RT: 7.05 min Scan# 1327
Delta R.T. -0.02 min
Lab File: VL034235.D
Acq: 7 Oct 2019 23:37

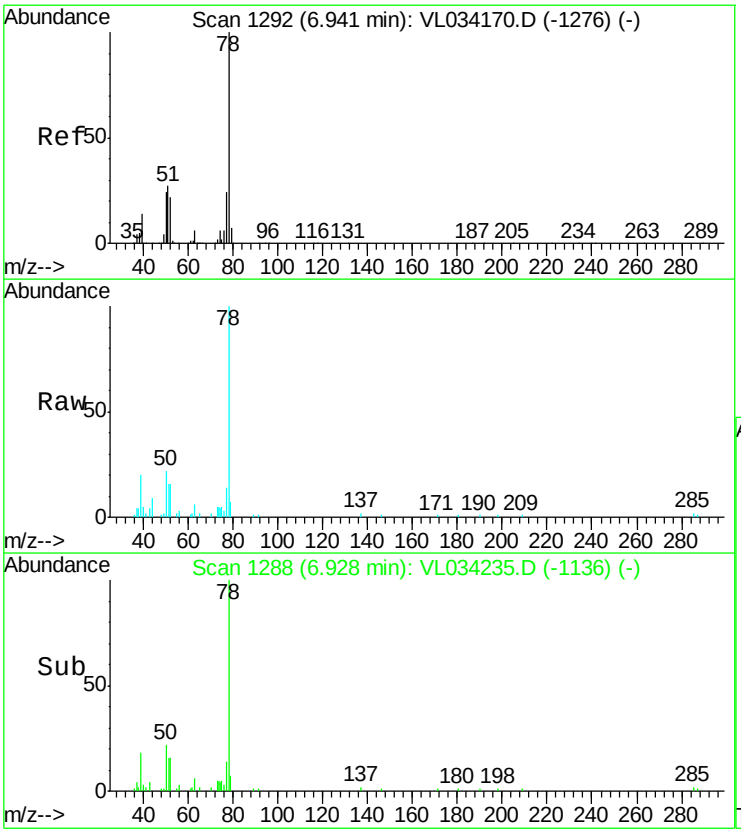
Tgt Ion:117 Resp: 11336

Ion	Ratio	Lower	Upper
117	100		
119	111.3	75.8	113.6
121	38.9	25.0	37.6#



Instrument :
MSVOA_L
ClientSampleId :
IA1

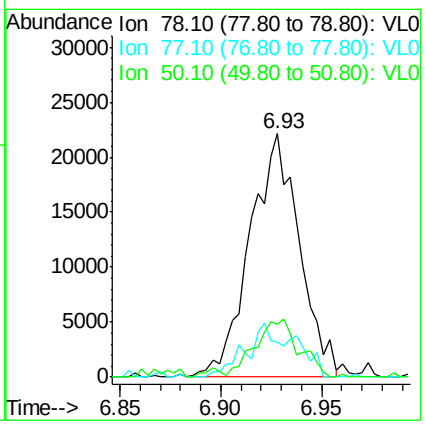
Manual Integrations APPROVED
MMDadoda
10/11/2019 5:05:33 PM

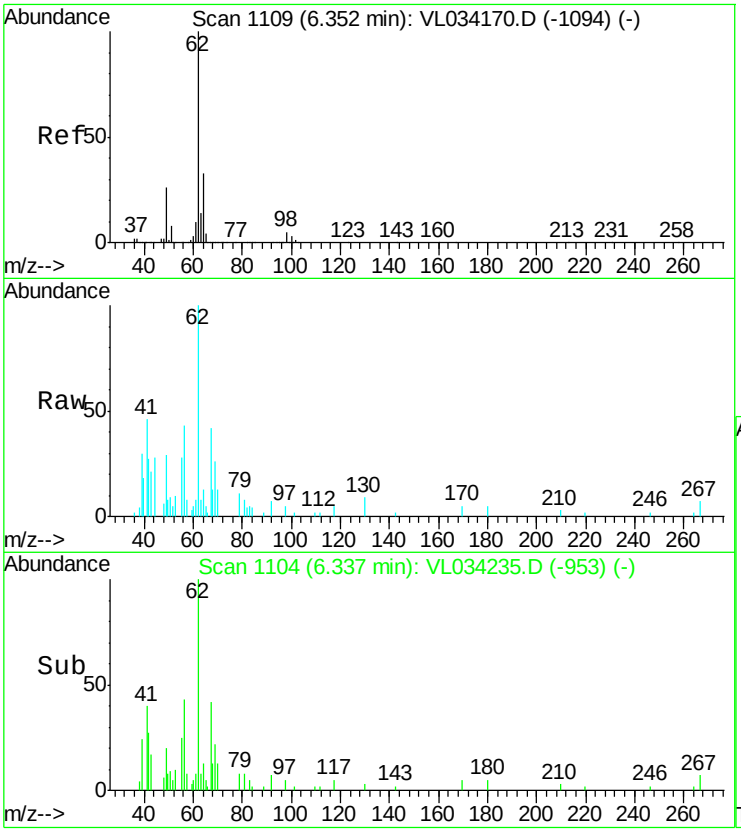


#36
Benzene
Concen: 0.185 ppbv
RT: 6.93 min Scan# 1288
Delta R.T. -0.01 min
Lab File: VL034235.D
Acq: 7 Oct 2019 23:37

Tgt Ion: 78 Resp: 37826

Ion	Ratio	Lower	Upper
78	100		
77	13.6	19.0	28.4#
50	20.5	18.9	28.3





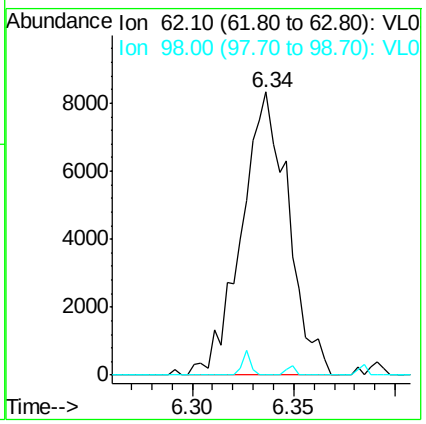
#37
1,2-Dichloroethane
Concen: 0.091 ppbv m
RT: 6.34 min Scan# 1104
Delta R.T. -0.02 min
Lab File: VL034235.D
Acq: 7 Oct 2019 23:37

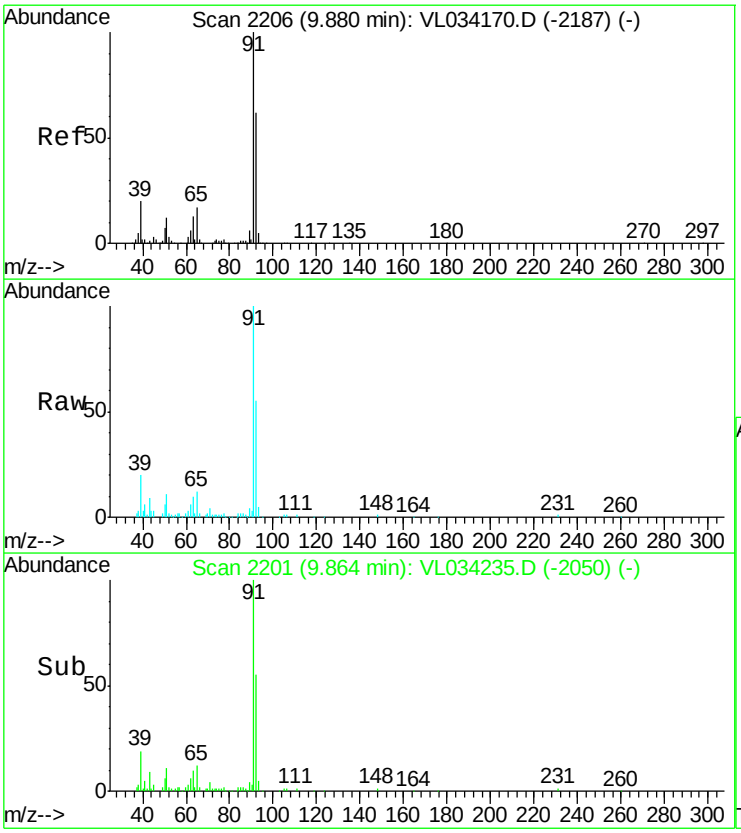
Tgt Ion: 62 Resp: 13322

Ion	Ratio	Lower	Upper
62	100		
98	2.2	3.8	5.8#

Instrument :
MSVOA_L
ClientSampleId :
IA1

Manual Integrations APPROVED
MMDadoda
10/11/2019 5:05:33 PM

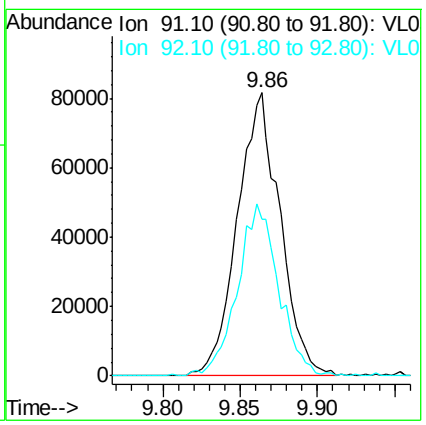


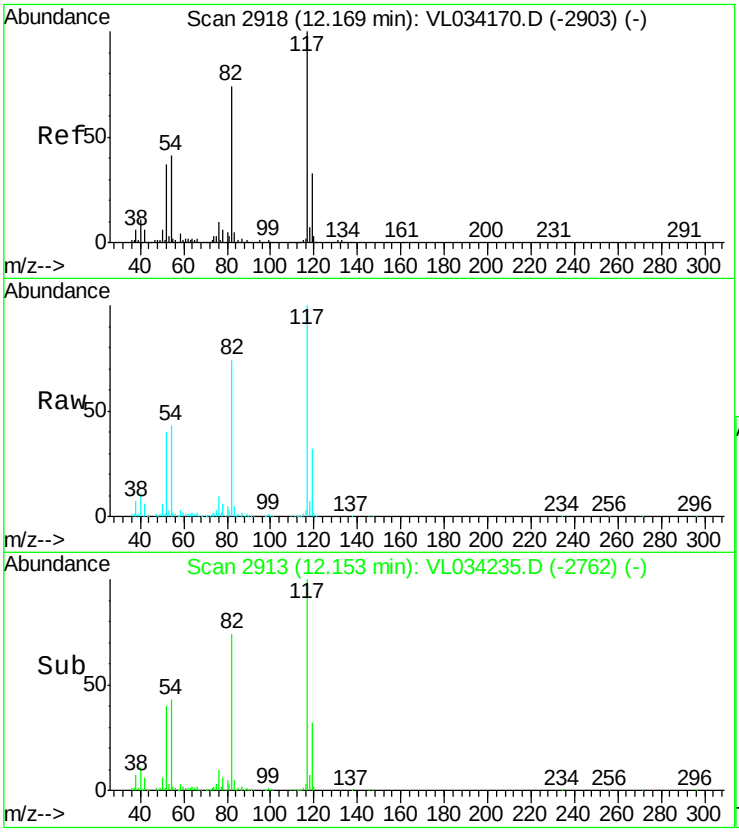


#53
Toluene
Concen: 0.699 ppbv
RT: 9.86 min Scan# 2201
Delta R.T. -0.02 min
Lab File: VL034235.D
Acq: 7 Oct 2019 23:37

Tgt Ion: 91 Resp: 156408

Ion	Ratio	Lower	Upper
91	100		
92	58.9	49.0	73.6

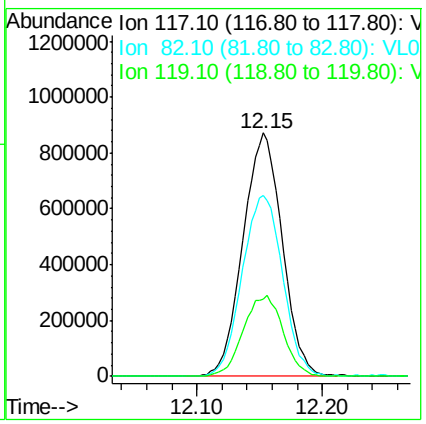




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.15 min Scan# 2913
Delta R.T. -0.02 min
Lab File: VL034235.D
Acq: 7 Oct 2019 23:37

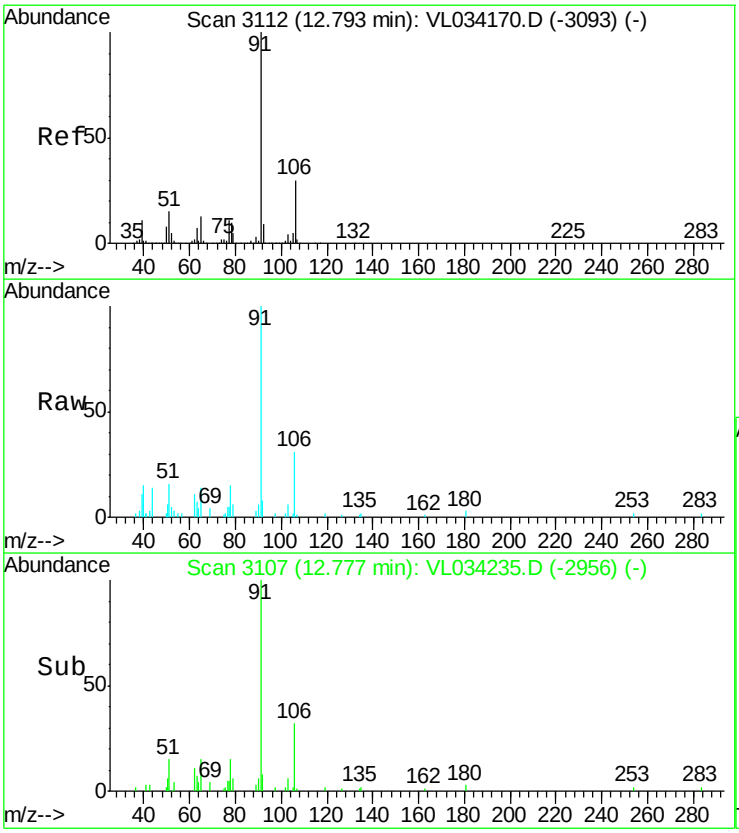
Tgt Ion:117 Resp: 1894360

Ion	Ratio	Lower	Upper
117	100		
82	76.5	58.2	87.4
119	33.6	23.7	35.5



Instrument :
MSVOA_L
ClientSampleId :
IA1

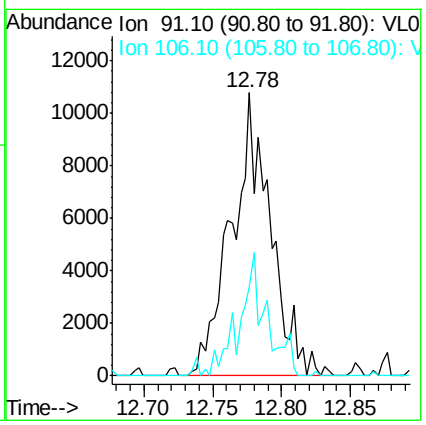
Manual Integrations APPROVED
MMDadoda
10/11/2019 5:05:33 PM

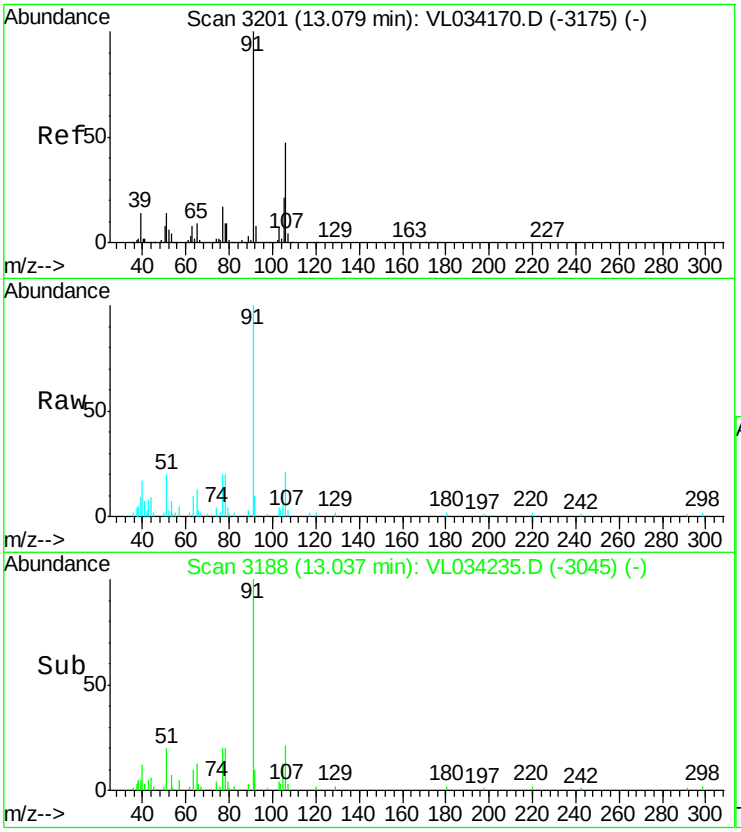


#58
Ethyl Benzene
Concen: 0.069 ppbv m
RT: 12.78 min Scan# 3107
Delta R.T. -0.02 min
Lab File: VL034235.D
Acq: 7 Oct 2019 23:37

Tgt Ion: 91 Resp: 21219

Ion	Ratio	Lower	Upper
91	100		
106	31.5	24.2	36.4





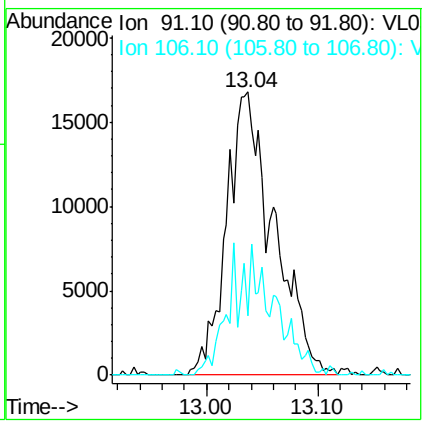
#59
m/p-Xylene
Concen: 0.197 ppbv m
RT: 13.04 min Scan# 3188
Delta R.T. -0.04 min
Lab File: VL034235.D
Acq: 7 Oct 2019 23:37

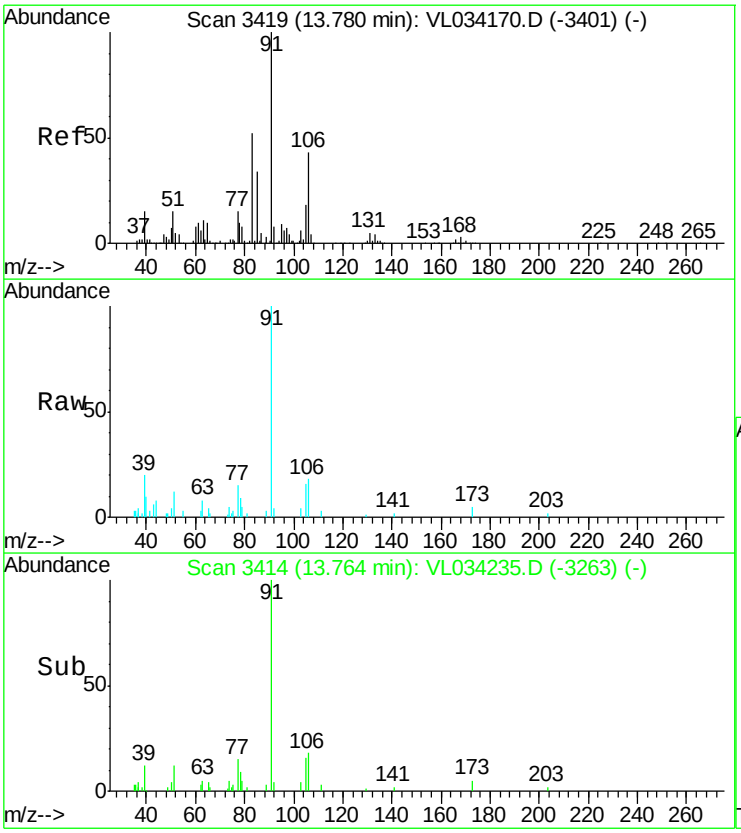
Tgt Ion: 91 Resp: 49879

Ion	Ratio	Lower	Upper
91	100		
106	0.0	35.5	53.3#

Instrument :
MSVOA_L
ClientSampleId :
IA1

Manual Integrations APPROVED
MMDadoda
10/11/2019 5:05:33 PM

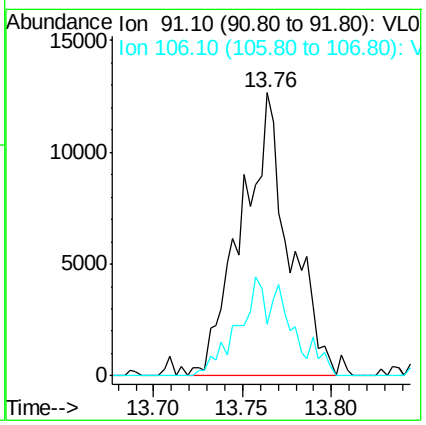


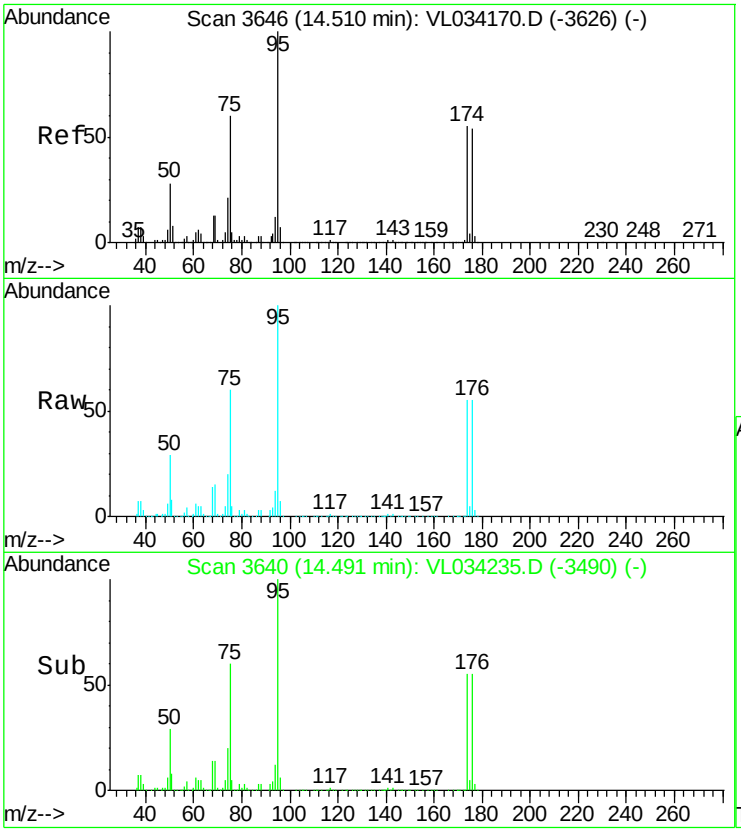


#60
o-Xylene
Concen: 0.094 ppbv m
RT: 13.76 min Scan# 3414
Delta R.T. -0.02 min
Lab File: VL034235.D
Acq: 7 Oct 2019 23:37

Tgt Ion: 91 Resp: 23736

Ion	Ratio	Lower	Upper
91	100		
106	0.0	21.2	63.6#

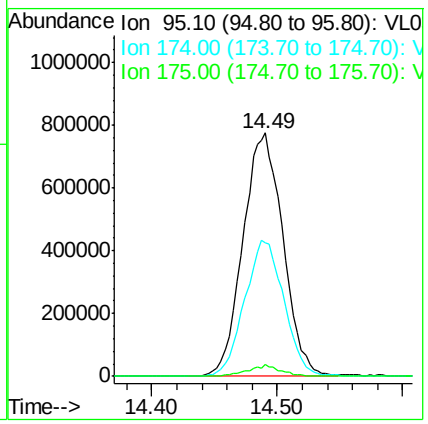




#68
1-Bromo-4-Fluorobenzene
Concen: 10.446 ppbv
RT: 14.49 min Scan# 3640
Delta R.T. -0.02 min
Lab File: VL034235.D
Acq: 7 Oct 2019 23:37

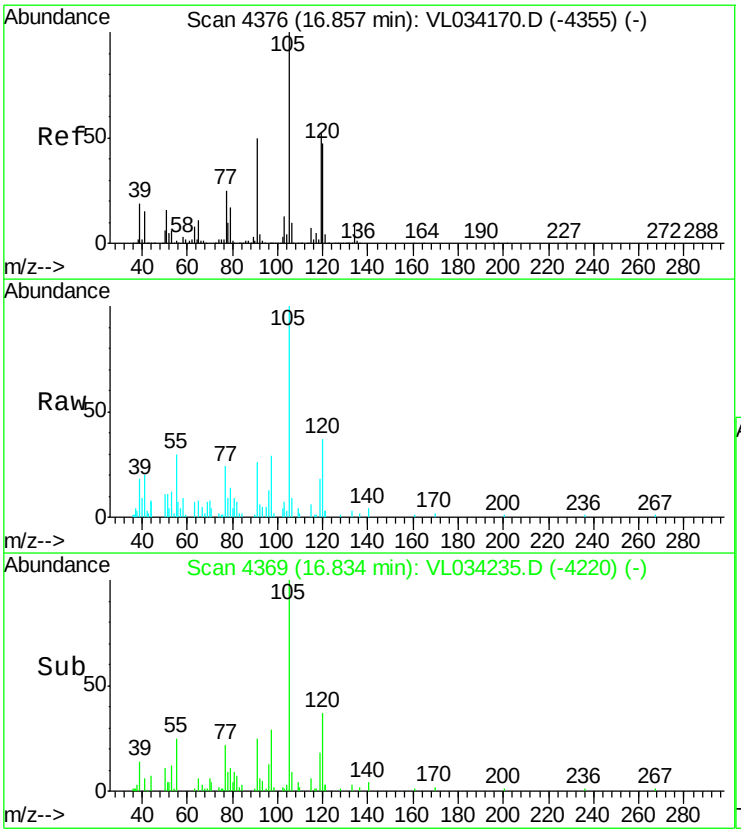
Tgt Ion: 95 Resp: 1719512

Ion	Ratio	Lower	Upper
95	100		
174	55.5	45.1	67.7
175	4.0	3.3	4.9



Instrument :
MSVOA_L
ClientSampleId :
IA1

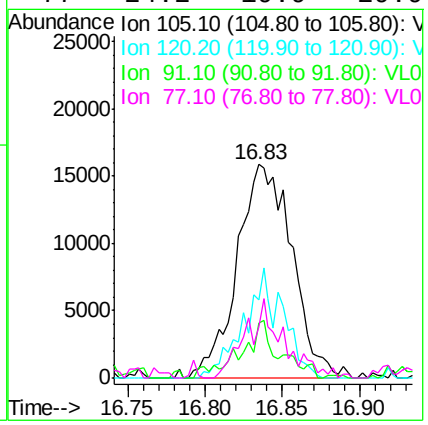
Manual Integrations APPROVED
MMDadoda
10/11/2019 5:05:33 PM

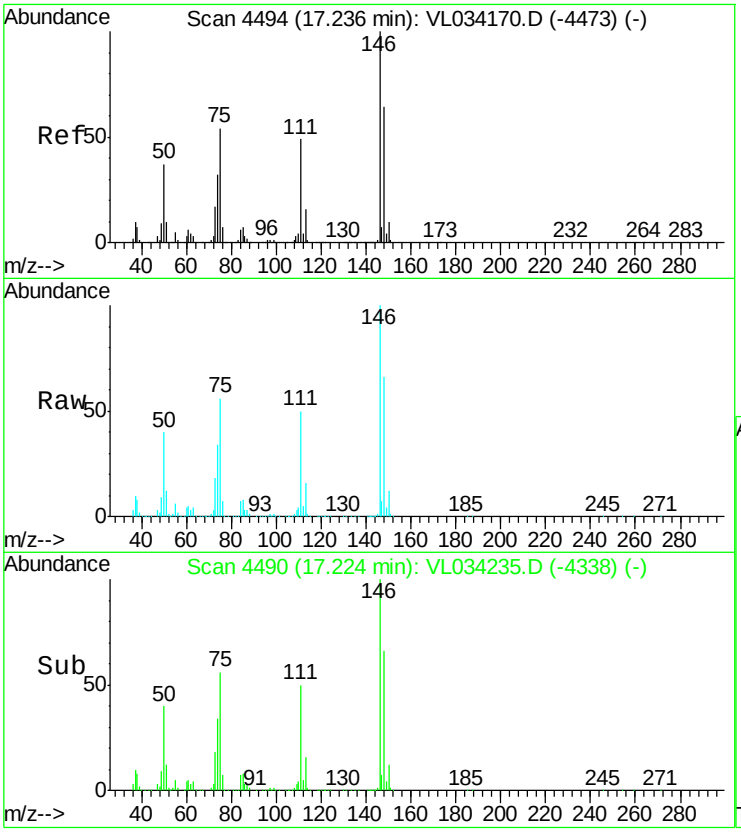


#74
1,2,4-Trimethylbenzene
Concen: 0.133 ppbv
RT: 16.83 min Scan# 4369
Delta R.T. -0.02 min
Lab File: VL034235.D
Acq: 7 Oct 2019 23:37

Tgt Ion:105 Resp: 38965

Ion	Ratio	Lower	Upper
105	100		
120	39.9	37.5	56.3
91	26.0	41.1	61.7#
77	24.2	19.9	29.9

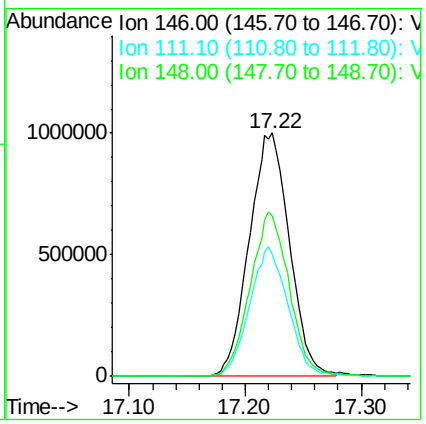




#76
1,4-Dichlorobenzene
Concen: 14.962 ppbv
RT: 17.22 min Scan# 4490
Delta R.T. -0.01 min
Lab File: VL034235.D
Acq: 7 Oct 2019 23:37

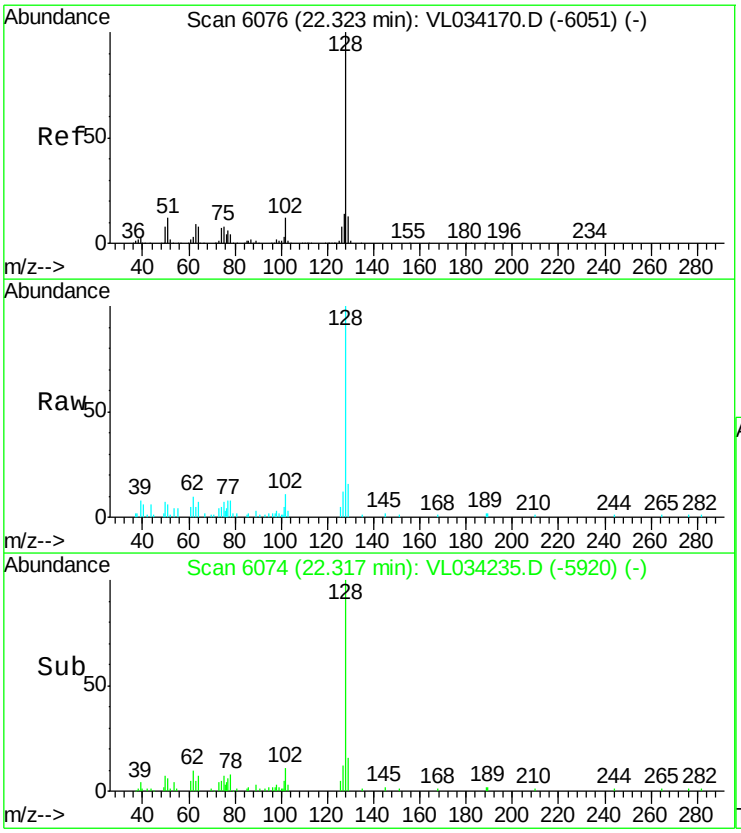
Tgt Ion:146 Resp: 2411989

Ion	Ratio	Lower	Upper
146	100		
111	51.3	24.6	74.0
148	65.7	32.4	97.0



Instrument :
MSVOA_L
ClientSampleId :
IA1

Manual Integrations APPROVED
MMDadoda
10/11/2019 5:05:33 PM



#79
Naphthalene
Concen: 0.177 ppbv m
RT: 22.32 min Scan# 6074
Delta R.T. -0.01 min
Lab File: VL034235.D
Acq: 7 Oct 2019 23:37

Tgt Ion:128 Resp: 45828

Ion	Ratio	Lower	Upper
128	100		
127	11.8	11.1	16.7
129	15.5	10.2	15.4#