Quantitation Report (QT Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL021319\
Data File : VL033191.D
Acq On : 13 Feb 2019 17:49
Operator : SY/AP
Sample : K1408-03
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : FM-AA

Manual Integrations APPROVED
MMDadoda
2/20/2019 12:23:51 PM

Quant Time: Feb 20 11:55:40 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL020519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 2
QLast Update : Wed Feb 20 06:00:52 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	981441	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2275670	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2230317	10.00	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.57	95	1774730	10.21	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 102.10%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.08	85	57132	0.304	ppbv	95
3) Chlorodifluoromethane	3.02	51	296141	2.506	ppbv	99
4) Chloromethane	3.17	50	25894	0.415	ppbv	96
11) Trichlorofluoromethane	4.00	101	38789	0.255	ppbv	89
13) Ethanol	3.66	45	113412m	5.846	ppbv	
15) Acetone	3.91	43	495101	4.478	ppbv	98
19) Isopropyl Alcohol	4.05	45	25852m	0.345	ppbv	
20) Methylene Chloride	4.41	84	57568	1.309	ppbv #	89
26) Hexane	5.78	57	217324	1.862	ppbv #	46
34) 2-Butanone	5.34	43	39953	0.277	ppbv	99
35) Carbon Tetrachloride	7.14	117	10266m	0.059	ppbv	
36) Benzene	7.00	78	52977	0.230	ppbv #	91
53) Toluene	9.94	91	317721	1.163	ppbv	98

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

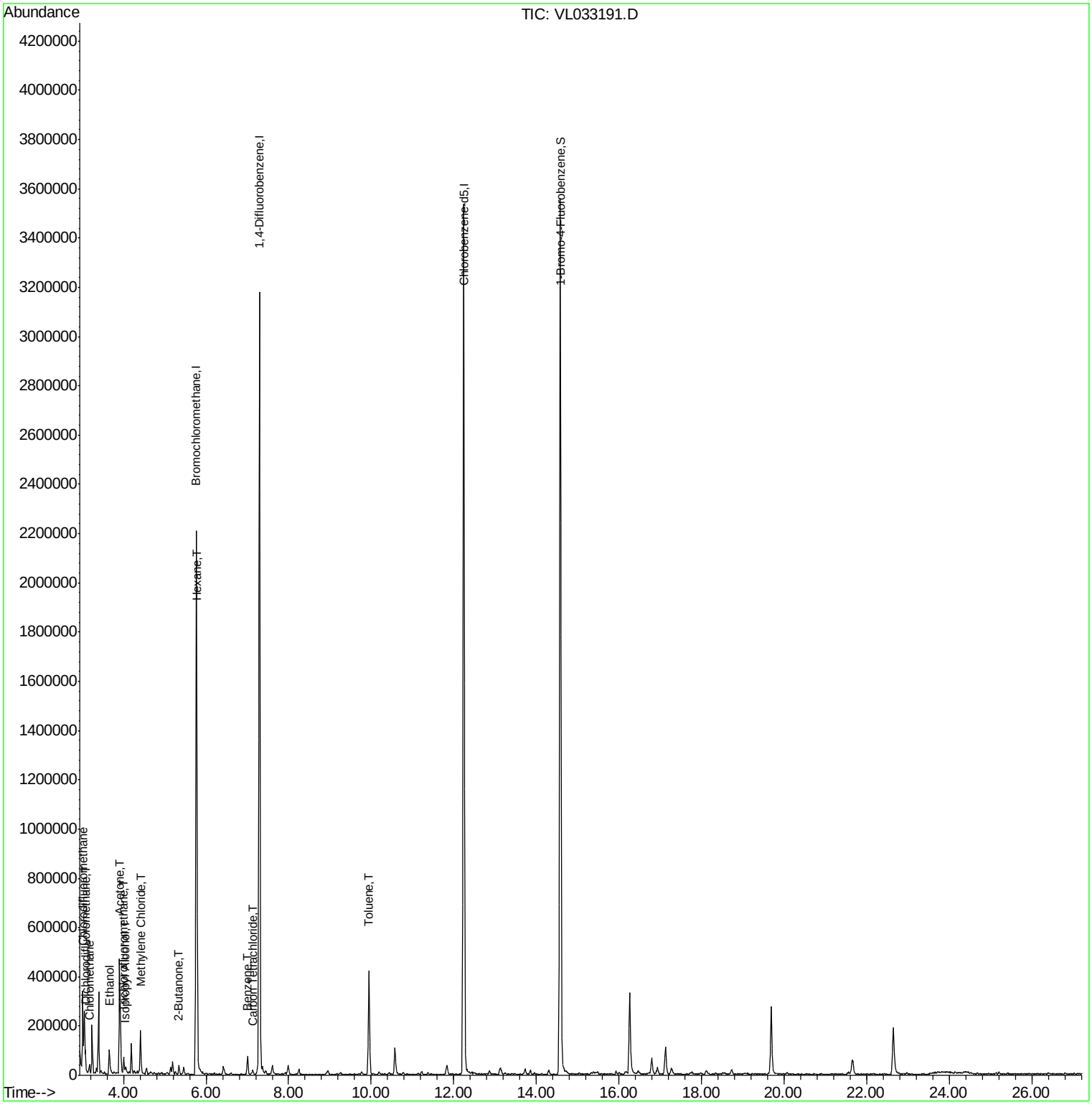
Quantitation Report (QT Reviewed)

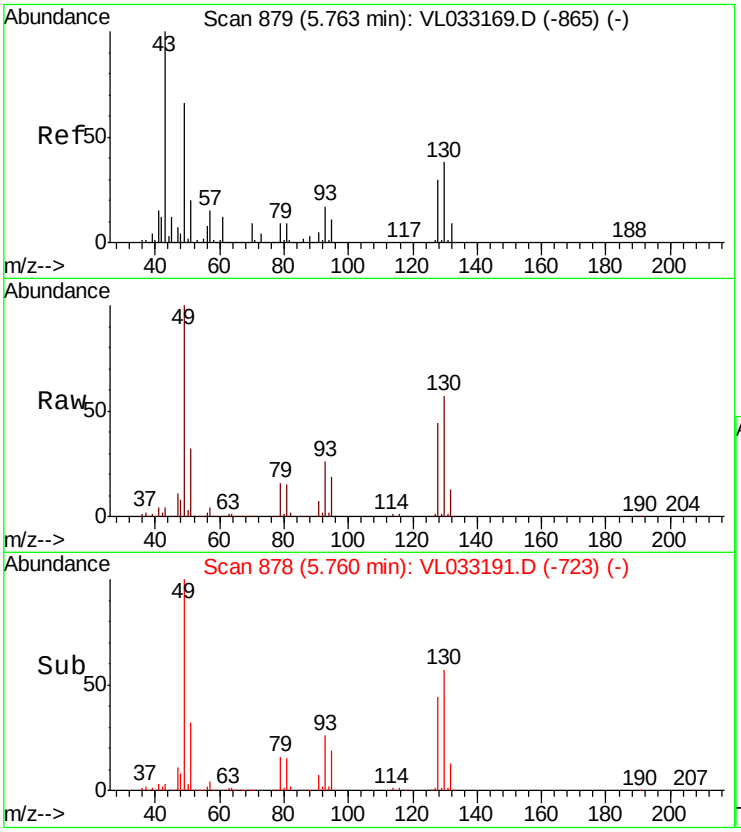
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL021319\
Data File : VL033191.D
Acq On : 13 Feb 2019 17:49
Operator : SY/AP
Sample : K1408-03
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 20 11:55:40 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL020519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb
QLast Update : Wed Feb 20 06:00:52 2019
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
FM-AA

Manual Integrations APPROVED
MMDadoda
2/20/2019 12:23:51 PM

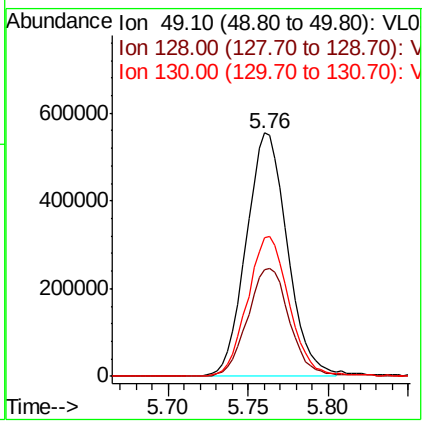




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.76 min Scan# 878
Delta R.T. -0.00 min
Lab File: VL033191.D
Acq: 13 Feb 2019 17:49

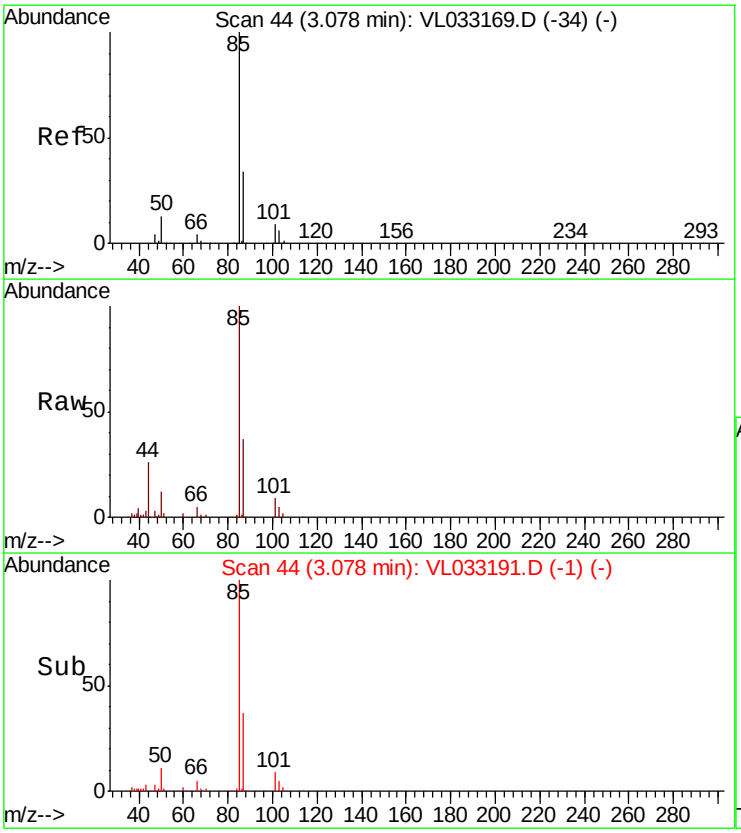
Tgt Ion: 49 Resp: 981441

Ion	Ratio	Lower	Upper
49	100		
128	45.9	23.6	71.0
130	58.6	30.3	91.0



Instrument :
MSVOA_L
ClientSampleId :
FM-AA

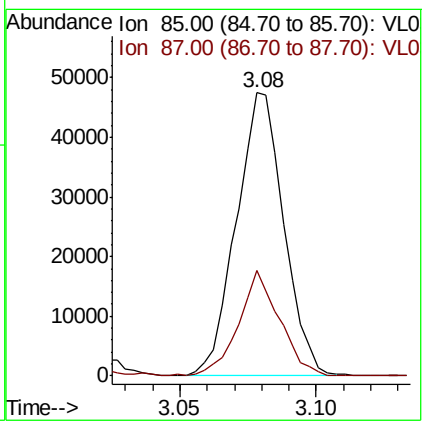
Manual Integrations APPROVED
MMDadoda
2/20/2019 12:23:51 PM

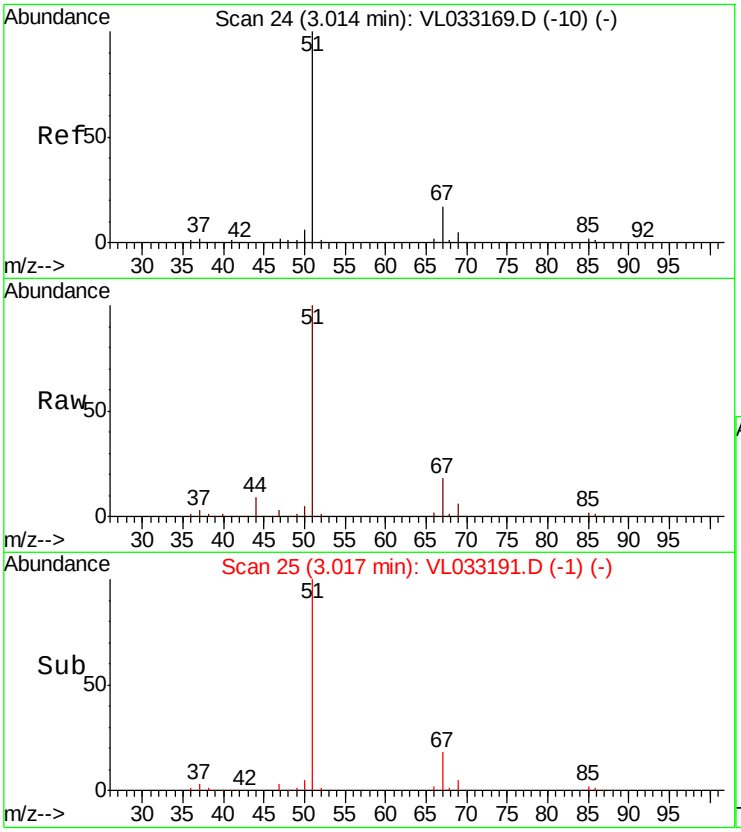


#2
Dichlorodifluoromethane
Concen: 0.304 ppbv
RT: 3.08 min Scan# 44
Delta R.T. -0.00 min
Lab File: VL033191.D
Acq: 13 Feb 2019 17:49

Tgt Ion: 85 Resp: 57132

Ion	Ratio	Lower	Upper
85	100		
87	37.4	27.4	41.2

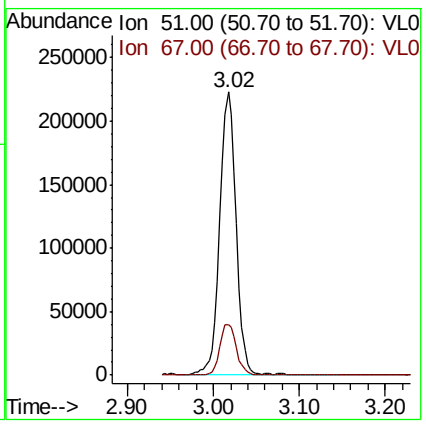




#3
Chlorodifluoromethane
Concen: 2.506 ppbv
RT: 3.02 min Scan# 25
Delta R.T. 0.00 min
Lab File: VL033191.D
Acq: 13 Feb 2019 17:49

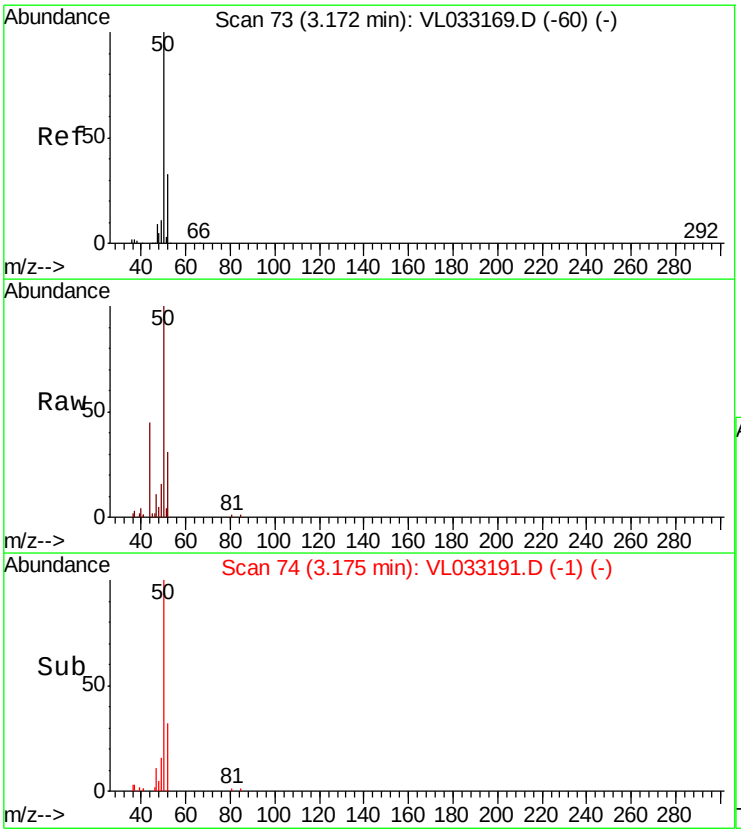
Tgt Ion: 51 Resp: 296141

Ion	Ratio	Lower	Upper
51	100		
67	18.0	14.0	21.0



Instrument :
MSVOA_L
ClientSampleId :
FM-AA

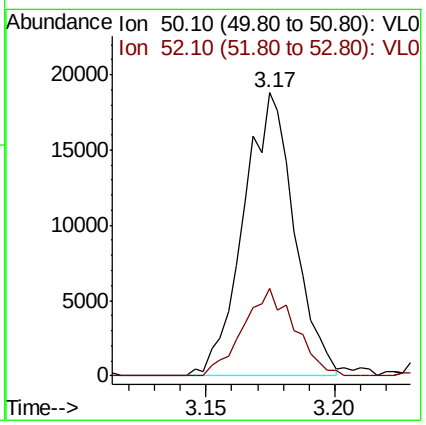
Manual Integrations APPROVED
MMDadoda
2/20/2019 12:23:51 PM

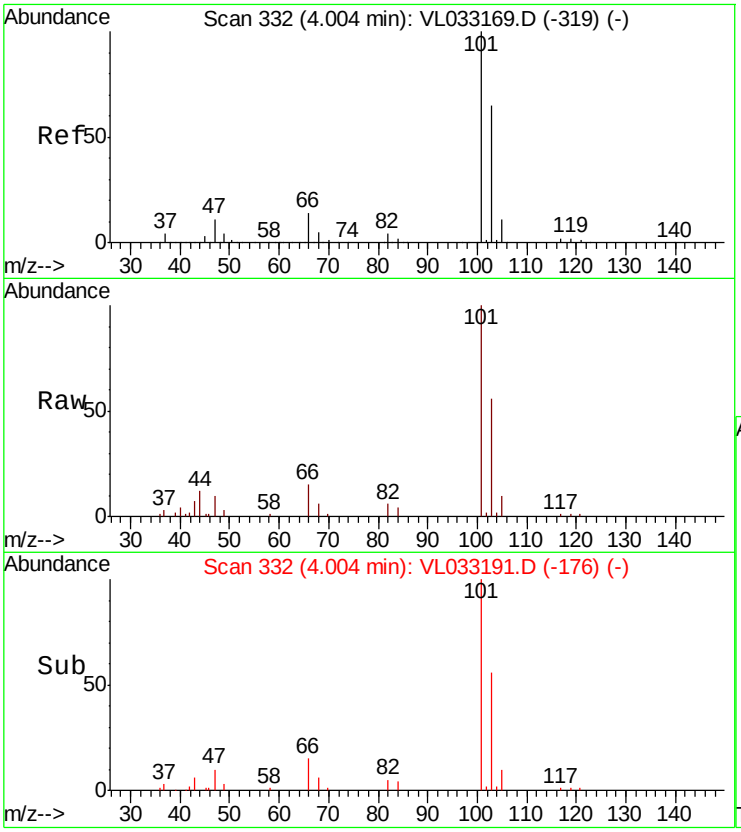


#4
Chloromethane
Concen: 0.415 ppbv
RT: 3.17 min Scan# 74
Delta R.T. 0.00 min
Lab File: VL033191.D
Acq: 13 Feb 2019 17:49

Tgt Ion: 50 Resp: 25894

Ion	Ratio	Lower	Upper
50	100		
52	31.0	26.5	39.7

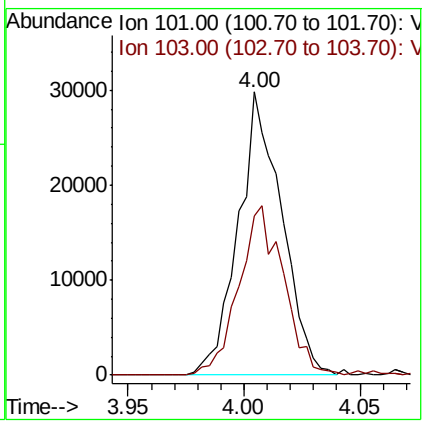




#11
Trichlorofluoromethane
Concen: 0.255 ppbv
RT: 4.00 min Scan# 332
Delta R.T. -0.00 min
Lab File: VL033191.D
Acq: 13 Feb 2019 17:49

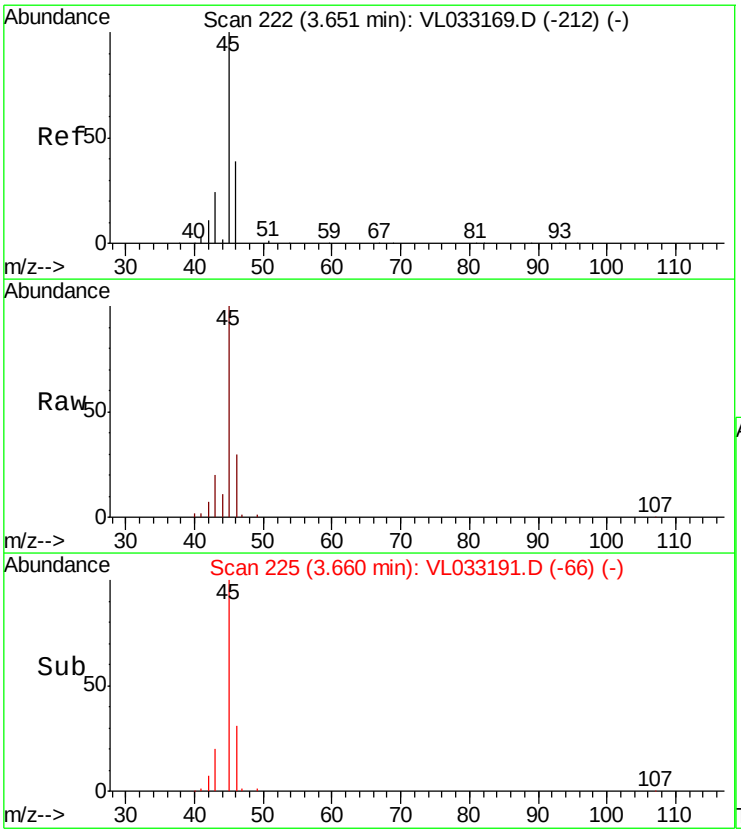
Tgt Ion:101 Resp: 38789

Ion	Ratio	Lower	Upper
101	100		
103	56.2	51.7	77.5



Instrument :
MSVOA_L
ClientSampleId :
FM-AA

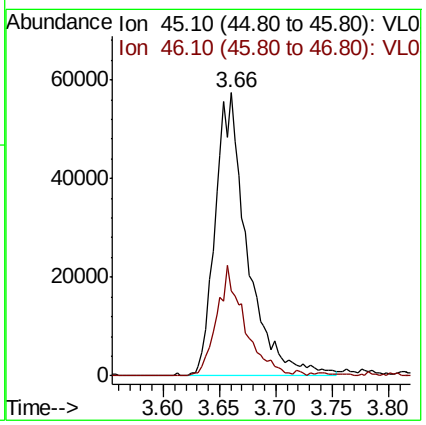
Manual Integrations APPROVED
MMDadoda
2/20/2019 12:23:51 PM

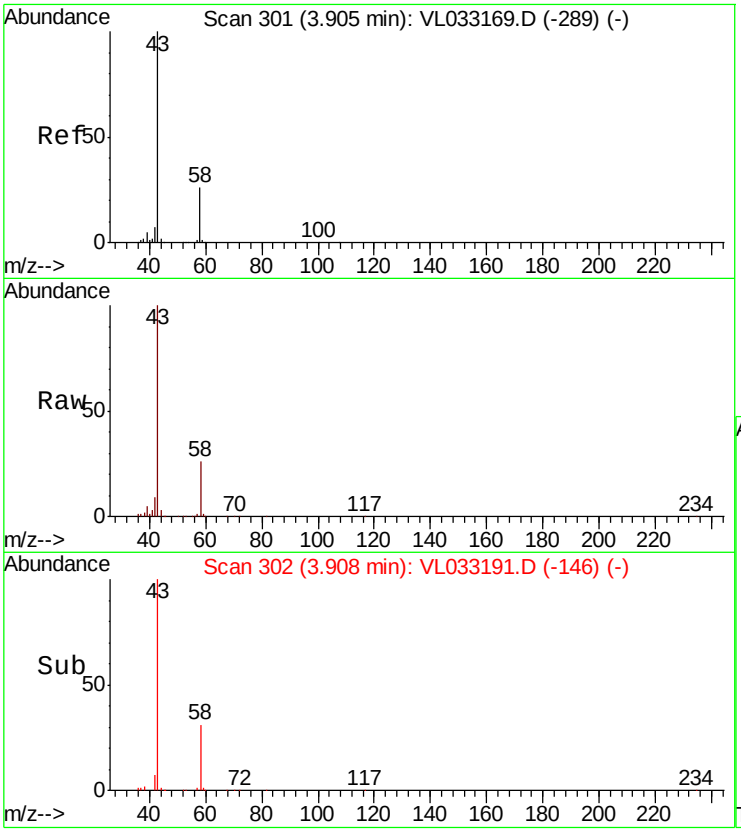


#13
Ethanol
Concen: 5.846 ppbv m
RT: 3.66 min Scan# 225
Delta R.T. 0.01 min
Lab File: VL033191.D
Acq: 13 Feb 2019 17:49

Tgt Ion: 45 Resp: 113412

Ion	Ratio	Lower	Upper
45	100		
46	35.3	15.0	60.2





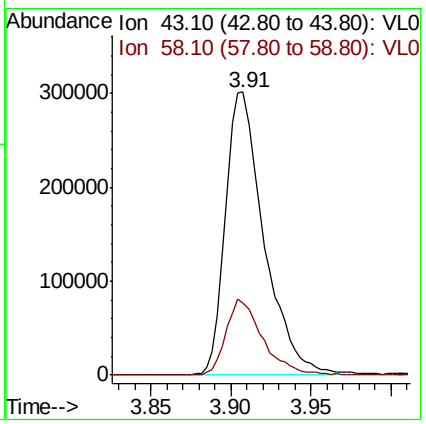
#15
Acetone
Concen: 4.478 ppbv
RT: 3.91 min Scan# 302
Delta R.T. 0.00 min
Lab File: VL033191.D
Acq: 13 Feb 2019 17:49

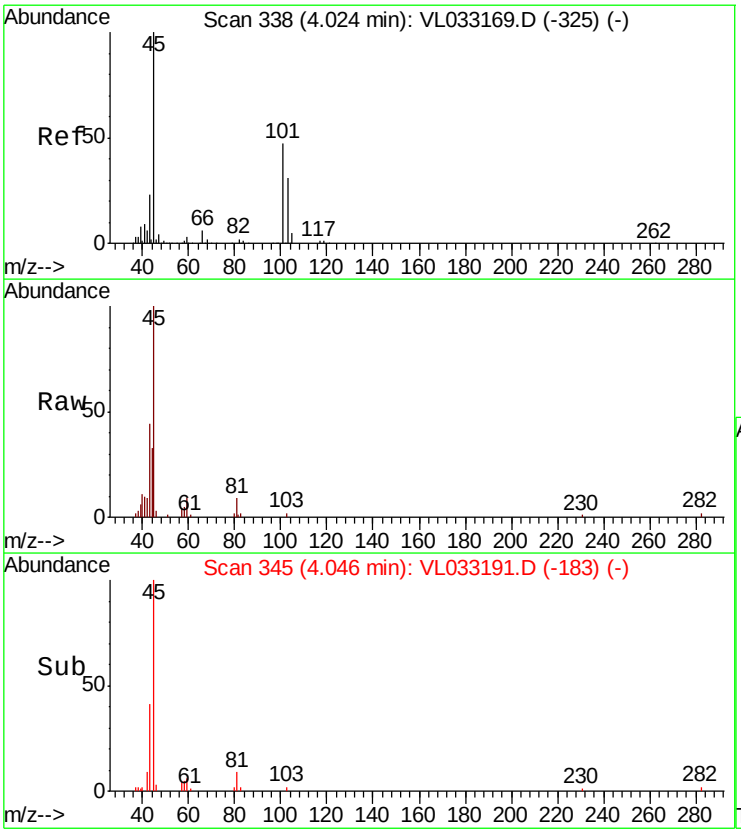
Tgt Ion: 43 Resp: 495101

Ion	Ratio	Lower	Upper
43	100		
58	25.6	21.1	31.7

Instrument :
MSVOA_L
ClientSampleId :
FM-AA

Manual Integrations APPROVED
MMDadoda
2/20/2019 12:23:51 PM

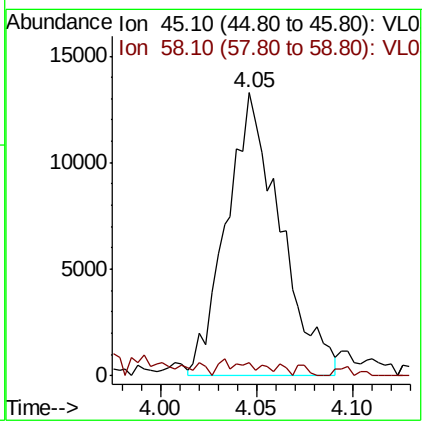


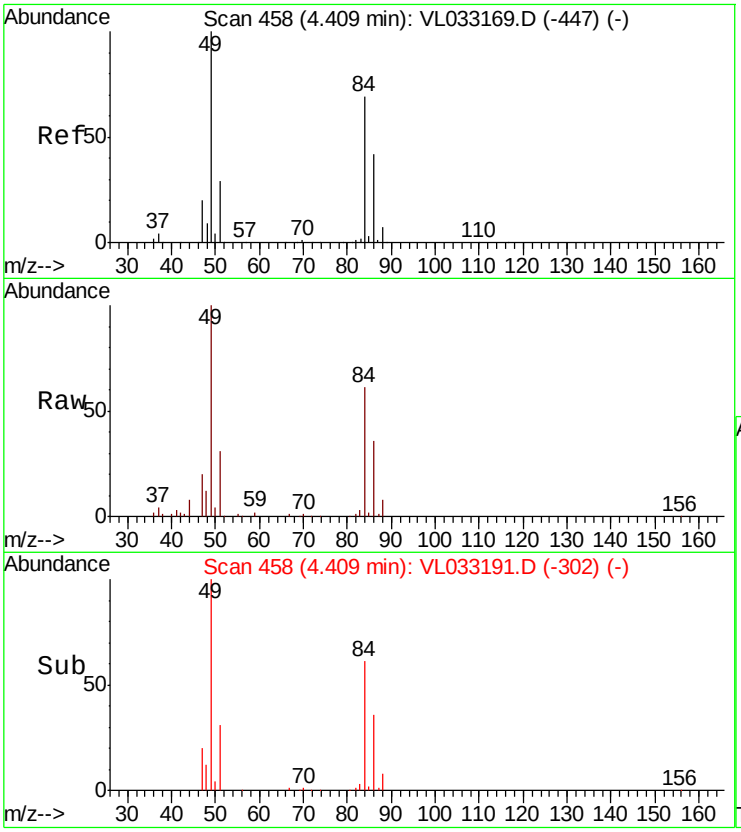


#19
Isopropyl Alcohol
Concen: 0.345 ppbv m
RT: 4.05 min Scan# 345
Delta R.T. 0.02 min
Lab File: VL033191.D
Acq: 13 Feb 2019 17:49

Tgt Ion: 45 Resp: 25852

Ion	Ratio	Lower	Upper
45	100		
58	494.0	1.5	2.3#

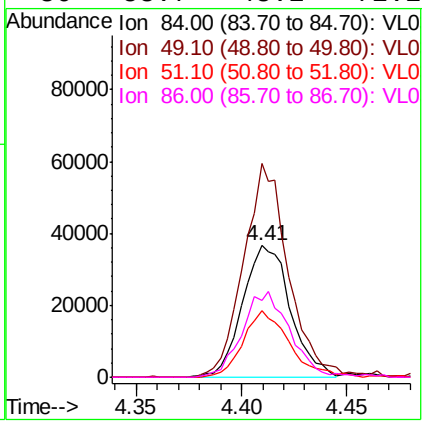




#20
Methylene Chloride
Concen: 1.309 ppbv
RT: 4.41 min Scan# 458
Delta R.T. -0.00 min
Lab File: VL033191.D
Acq: 13 Feb 2019 17:49

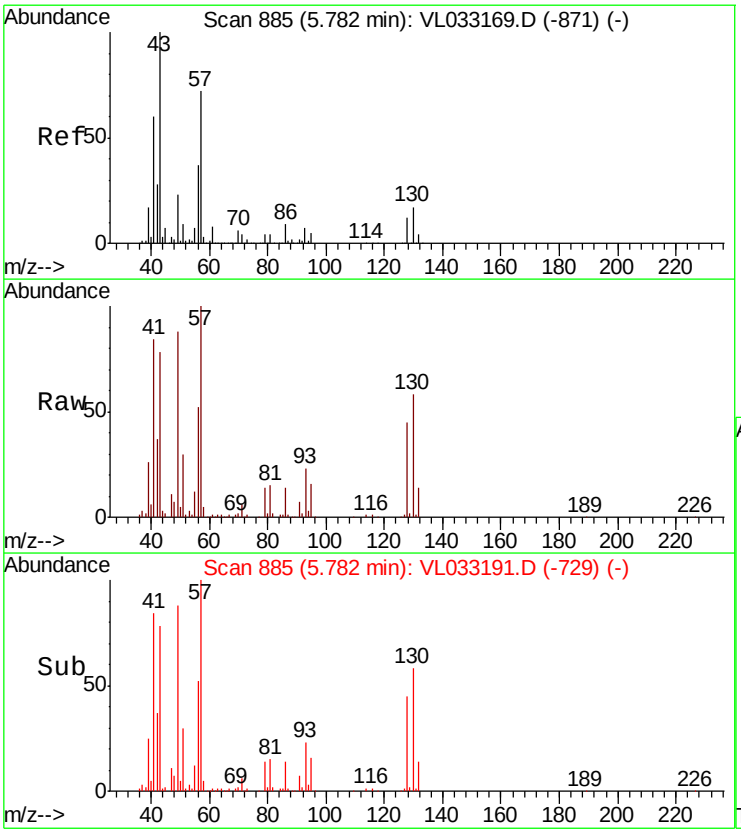
Tgt Ion: 84 Resp: 57568

Ion	Ratio	Lower	Upper
84	100		
49	162.7	115.8	173.8
51	50.7	33.0	49.6#
86	58.7	48.2	72.2



Instrument :
MSVOA_L
ClientSampleId :
FM-AA

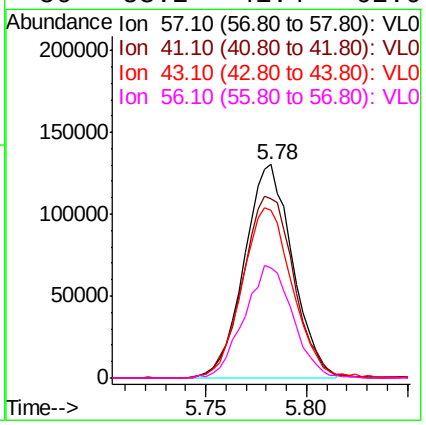
Manual Integrations APPROVED
MMDadoda
2/20/2019 12:23:51 PM

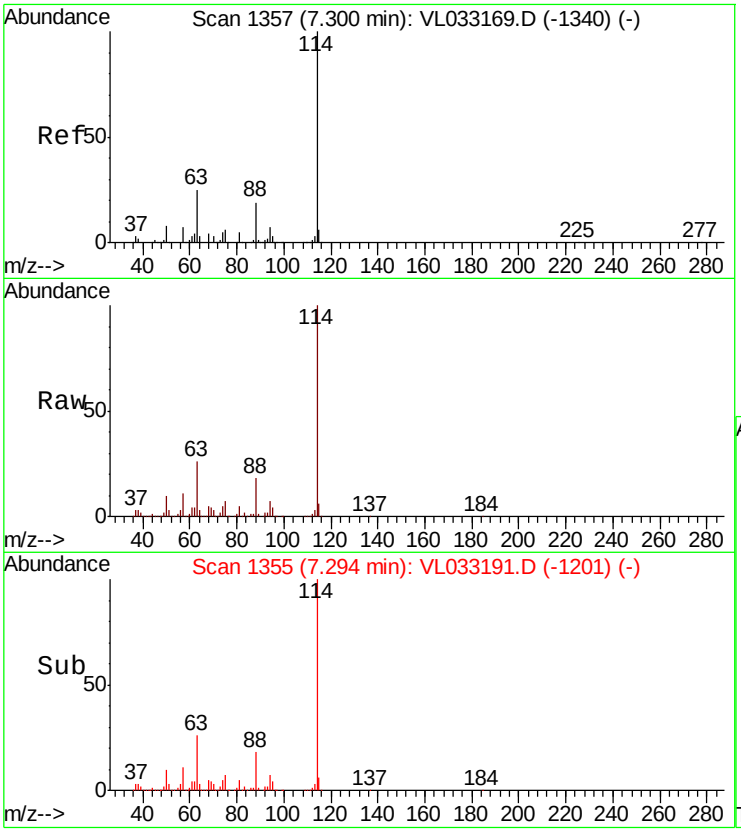


#26
Hexane
Concen: 1.862 ppbv
RT: 5.78 min Scan# 885
Delta R.T. -0.00 min
Lab File: VL033191.D
Acq: 13 Feb 2019 17:49

Tgt Ion: 57 Resp: 217324

Ion	Ratio	Lower	Upper
57	100		
41	91.0	69.4	104.2
43	83.9	176.7	265.1#
56	53.2	41.4	62.0

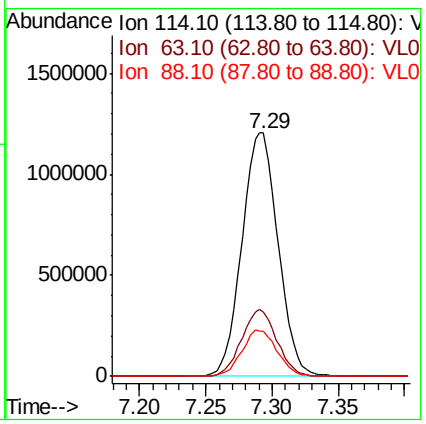




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.29 min Scan# 1355
Delta R.T. -0.01 min
Lab File: VL033191.D
Acq: 13 Feb 2019 17:49

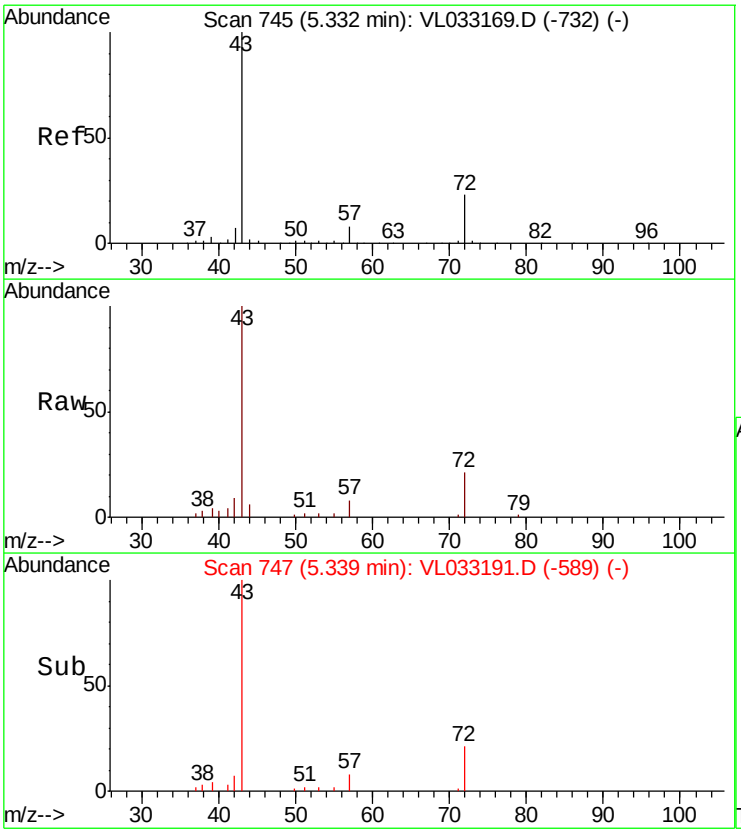
Tgt Ion:114 Resp: 2275670

Ion	Ratio	Lower	Upper
114	100		
63	26.9	20.8	31.2
88	18.6	14.6	22.0



Instrument :
MSVOA_L
ClientSampleId :
FM-AA

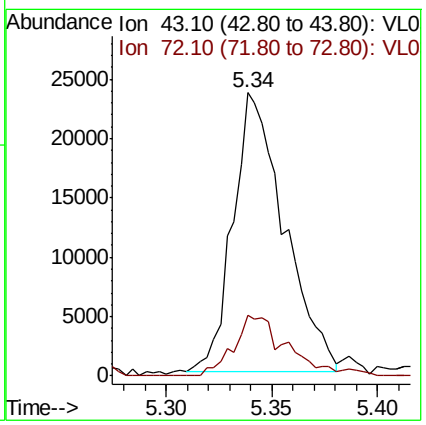
Manual Integrations APPROVED
MMDadoda
2/20/2019 12:23:51 PM

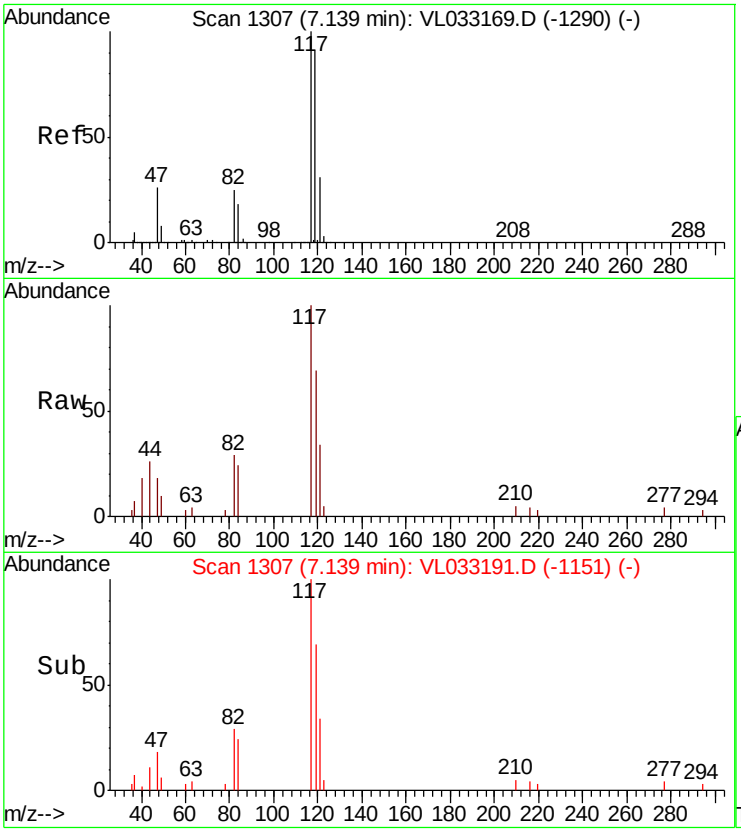


#34
2-Butanone
Concen: 0.277 ppbv
RT: 5.34 min Scan# 747
Delta R.T. 0.01 min
Lab File: VL033191.D
Acq: 13 Feb 2019 17:49

Tgt Ion: 43 Resp: 39953

Ion	Ratio	Lower	Upper
43	100		
72	22.7	17.8	26.6

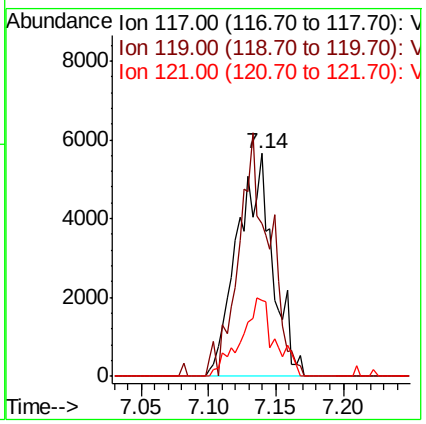




#35
Carbon Tetrachloride
Concen: 0.059 ppbv m
RT: 7.14 min Scan# 1307
Delta R.T. 0.00 min
Lab File: VL033191.D
Acq: 13 Feb 2019 17:49

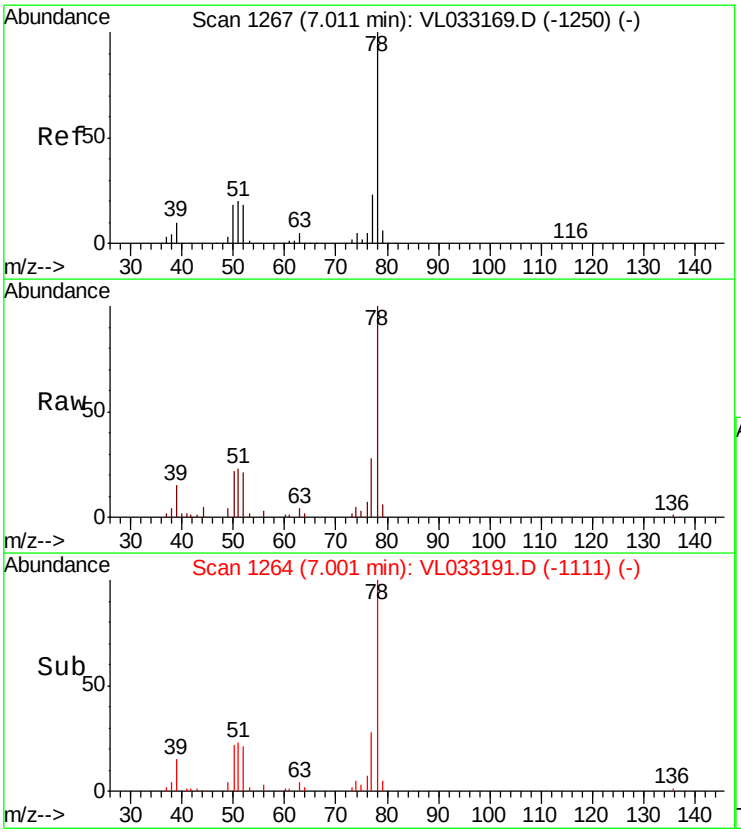
Tgt Ion:117 Resp: 10266

Ion	Ratio	Lower	Upper
117	100		
119	68.7	73.0	109.6#
121	34.1	25.1	37.7



Instrument :
MSVOA_L
ClientSampleId :
FM-AA

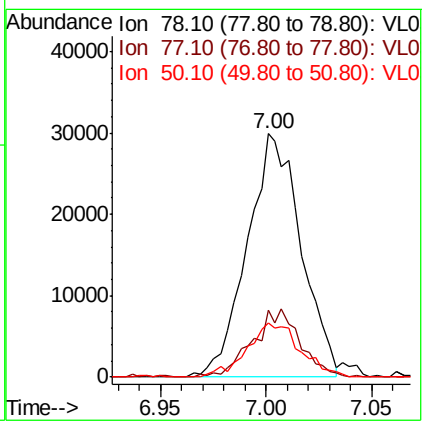
Manual Integrations APPROVED
MMDadoda
2/20/2019 12:23:51 PM

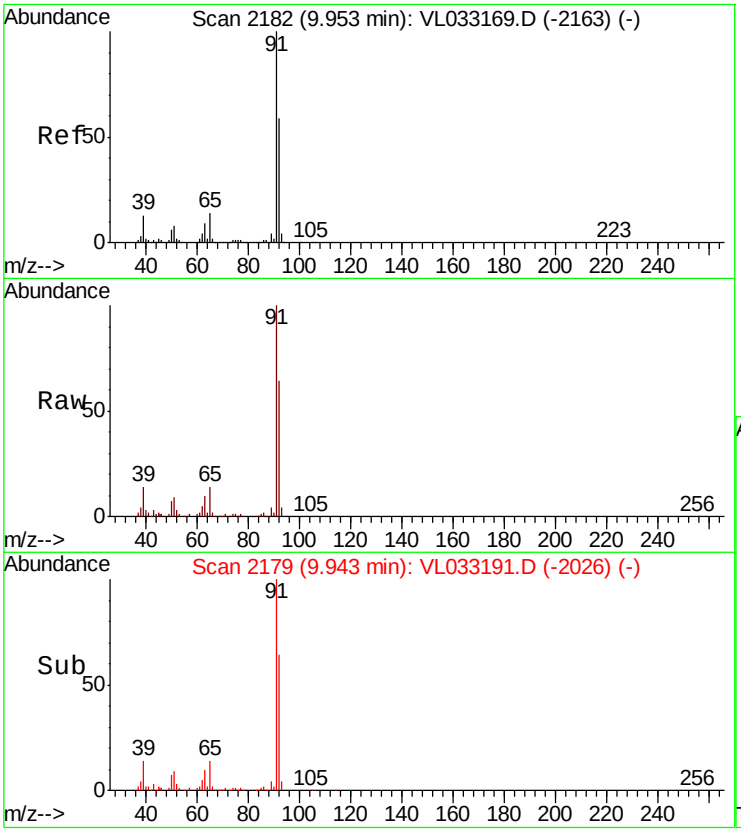


#36
Benzene
Concen: 0.230 ppbv
RT: 7.00 min Scan# 1264
Delta R.T. -0.01 min
Lab File: VL033191.D
Acq: 13 Feb 2019 17:49

Tgt Ion: 78 Resp: 52977

Ion	Ratio	Lower	Upper
78	100		
77	27.6	18.0	27.0#
50	21.0	14.2	21.2





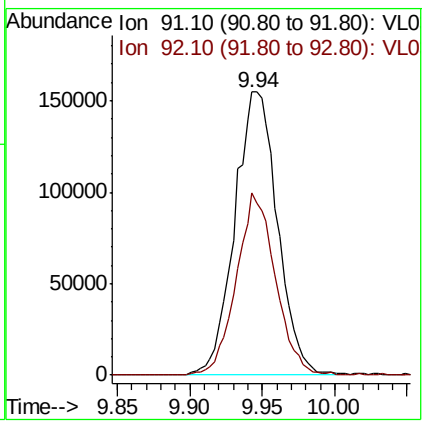
#53
Toluene
Concen: 1.163 ppbv
RT: 9.94 min Scan# 2179
Delta R.T. -0.01 min
Lab File: VL033191.D
Acq: 13 Feb 2019 17:49

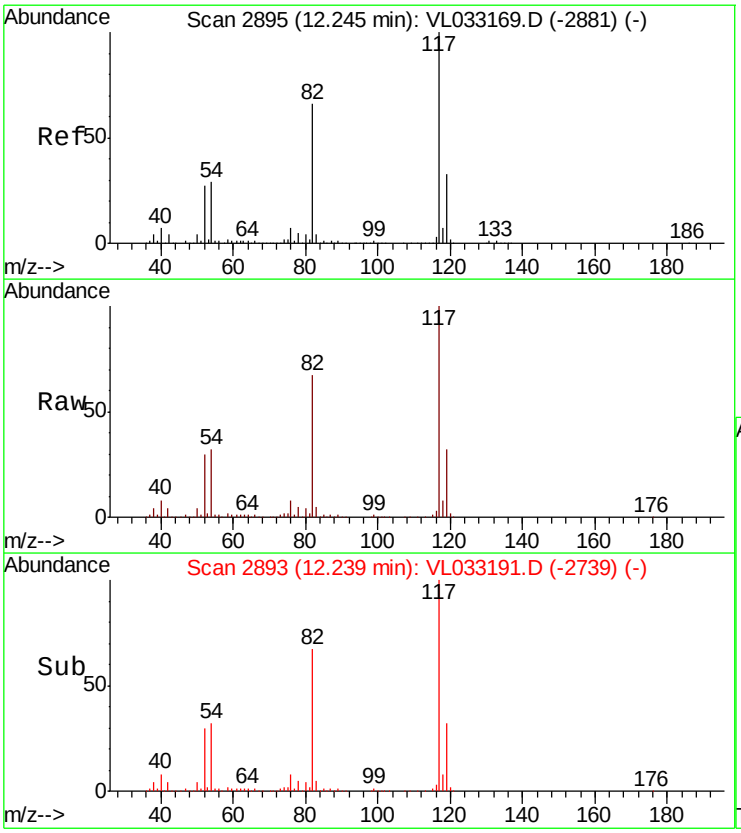
Tgt Ion: 91 Resp: 317721

Ion	Ratio	Lower	Upper
91	100		
92	58.7	48.0	72.0

Instrument :
MSVOA_L
ClientSampleId :
FM-AA

Manual Integrations APPROVED
MMDadoda
2/20/2019 12:23:51 PM

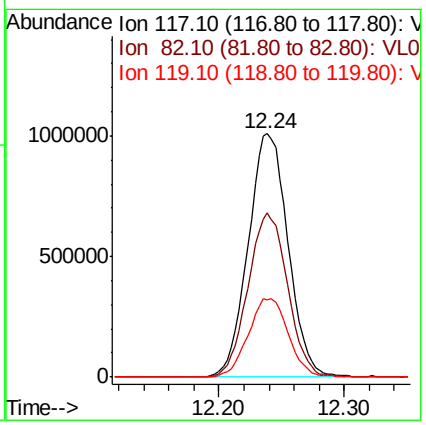


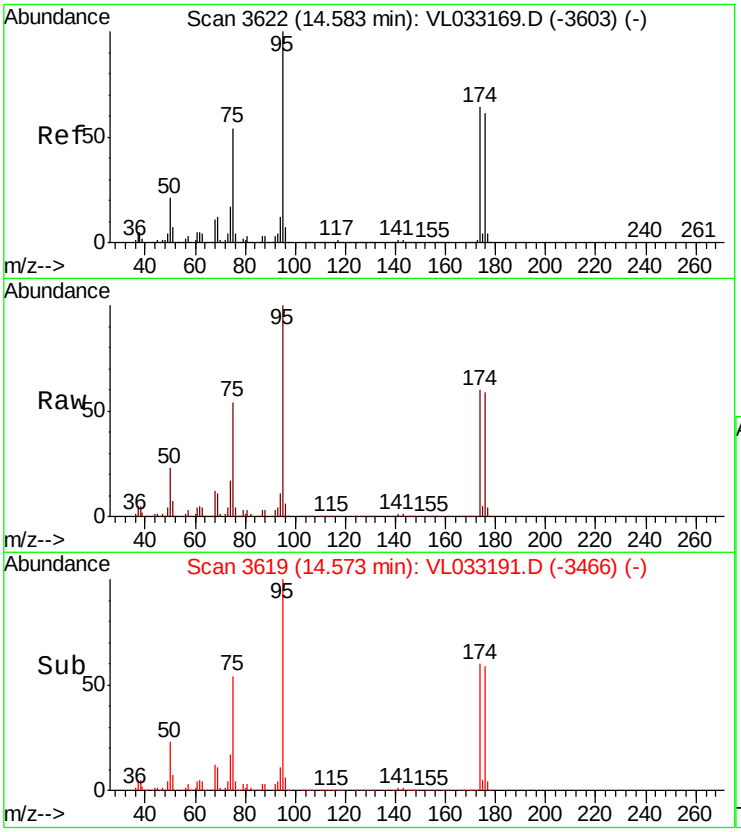


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2893
Delta R.T. -0.01 min
Lab File: VL033191.D
Acq: 13 Feb 2019 17:49

Tgt Ion:117 Resp: 2230317

Ion	Ratio	Lower	Upper
117	100		
82	67.5	53.8	80.8
119	32.7	46.9	70.3#

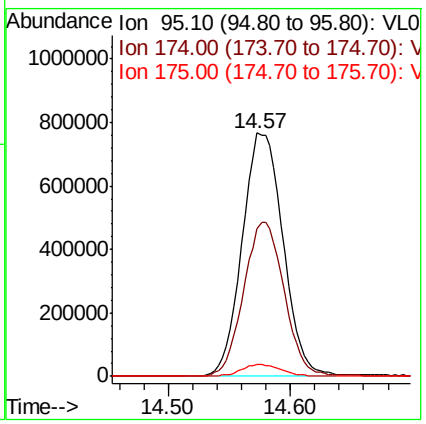




#68
1-Bromo-4-Fluorobenzene
Concen: 10.211 ppbv
RT: 14.57 min Scan# 3619
Delta R.T. -0.01 min
Lab File: VL033191.D
Acq: 13 Feb 2019 17:49

Tgt Ion: 95 Resp: 1774730

Ion	Ratio	Lower	Upper
95	100		
174	63.1	51.1	76.7
175	4.8	3.8	5.6



Instrument :
MSVOA_L
ClientSampleId :
FM-AA

Manual Integrations APPROVED
MMDadoda
2/20/2019 12:23:51 PM