Quantitation Report (QT Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL062419\
Data File : VL033933.D
Acq On : 24 Jun 2019 12:36
Operator : SY/AP
Sample : QC060619 CAN 10729
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 25 03:52:41 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL060719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Jun 0
QLast Update : Fri Jun 07 08:53:27 2019
Response via : Initial Calibration

Instrument : MSVOA_L
ClientSampleId : QC060619 CAN 10729

Manual Integrations APPROVED
MMDadoda
6/26/2019 8:15:32 AM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.74	49	1031756	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.26	114	2456313	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.21	117	2588998	10.00	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.54	95	2031926	9.55	ppbv	-0.02
Spiked Amount 10.000	Range 65 - 135		Recovery = 95.50%			
Target Compounds						Qvalue
3) Chlorodifluoromethane	3.00	51	13235	0.109	ppbv	98
4) Chloromethane	3.16	50	7417	0.107	ppbv	95
5) Vinyl Chloride	3.29	62	5079	0.079	ppbv	95
6) Bromomethane	3.50	94	3576	0.084	ppbv	90
7) Chloroethane	3.59	64	2349m	0.092	ppbv	
8) Dichlorotetrafluoroethane	3.21	85	15510	0.087	ppbv	98
9) Propene	3.03	41	5407m	0.119	ppbv	
10) Heptane	8.22	43	6024m	0.052	ppbv	
11) Trichlorofluoromethane	3.99	101	20086m	0.093	ppbv	
12) 1,1,2-Trichlorotrifluoroet	4.53	101	12190m	0.083	ppbv	
13) Ethanol	3.65	45	7040m	0.476	ppbv	
14) Bromoethene	3.78	108	4468	0.082	ppbv #	89
15) Acetone	3.90	43	39651	0.264	ppbv	95
16) 1,3-Butadiene	3.35	39	4446	0.078	ppbv	100
17) tert-Butyl alcohol	4.37	59	11985m	0.102	ppbv	
18) 1,1-Dichloroethene	4.33	96	4963m	0.080	ppbv	
19) Isopropyl Alcohol	4.04	45	12768m	0.149	ppbv	
20) Methylene Chloride	4.39	84	30170m	0.514	ppbv	
21) Allyl Chloride	4.47	41	6837m	0.080	ppbv	
22) trans-1,2-Dichloroethene	4.94	96	5857m	0.090	ppbv	
23) Vinyl Acetate	5.14	43	16131m	0.092	ppbv	
24) 1,1-Dichloroethane	5.07	63	10916	0.080	ppbv #	97
25) Ethyl Acetate	5.76	43	31516	0.138	ppbv #	96
26) Hexane	5.75	57	28182	0.270	ppbv #	57
27) Carbon Disulfide	4.61	76	10180m	0.070	ppbv	
28) Methyl tert-Butyl Ether	5.11	73	10073m	0.064	ppbv	
29) Chloroform	5.82	83	18737	0.105	ppbv #	76
30) Cyclohexane	7.23	84	3135m	0.043	ppbv	
31) cis-1,2-Dichloroethene	5.61	61	5674m	0.062	ppbv	
32) 1,1,1-Trichloroethane	6.60	97	15957m	0.093	ppbv	
34) 2-Butanone	5.33	43	12517m	0.090	ppbv	
35) Carbon Tetrachloride	7.11	117	16083	0.085	ppbv #	85
36) Benzene	6.98	78	14604m	0.078	ppbv	
37) 1,2-Dichloroethane	6.38	62	12377m	0.089	ppbv	
38) Trichloroethene	7.93	130	5821m	0.080	ppbv	
39) 1,2-Dichloropropane	7.71	63	6977m	0.096	ppbv	
41) Tetrahydrofuran	6.16	42	5351m	0.076	ppbv	
42) Bromodichloromethane	7.88	83	14645m	0.079	ppbv	
43) Methyl Methacrylate	8.11	69	4436m	0.063	ppbv	
44) 2,2,4-Trimethylpentane	7.96	57	18662m	0.056	ppbv	
54) 1,2-Dibromoethane	10.73	107	10476m	0.081	ppbv	

Quantitation Report (QT Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL062419\
Data File : VL033933.D
Acq On : 24 Jun 2019 12:36
Operator : SY/AP
Sample : QC060619 CAN 10729
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 25 03:52:41 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL060719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Jun 0
QLast Update : Fri Jun 07 08:53:27 2019
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
QC060619 CAN 10729

Manual Integrations APPROVED
MMDadoda
6/26/2019 8:15:32 AM

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
69) p-Isopropyltoluene	17.78	119	16166	0.041	ppbv	#	84
75) 1,3-Dichlorobenzene	17.14	146	19648	0.089	ppbv		82
76) 1,4-Dichlorobenzene	17.27	146	15251m	0.075	ppbv		
77) 1,2-Dichlorobenzene	17.95	146	15347m	0.075	ppbv		
78) Hexachloro-1,3-Butadiene	23.51	225	23777m	0.149	ppbv		
79) Naphthalene	22.38	128	19418m	0.069	ppbv		
80) Naphthalene,2-methyl-	25.10	142	17960	0.159	ppbv		94
81) 1,2,4-Trichlorobenzene	22.12	180	13897m	0.078	ppbv		

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

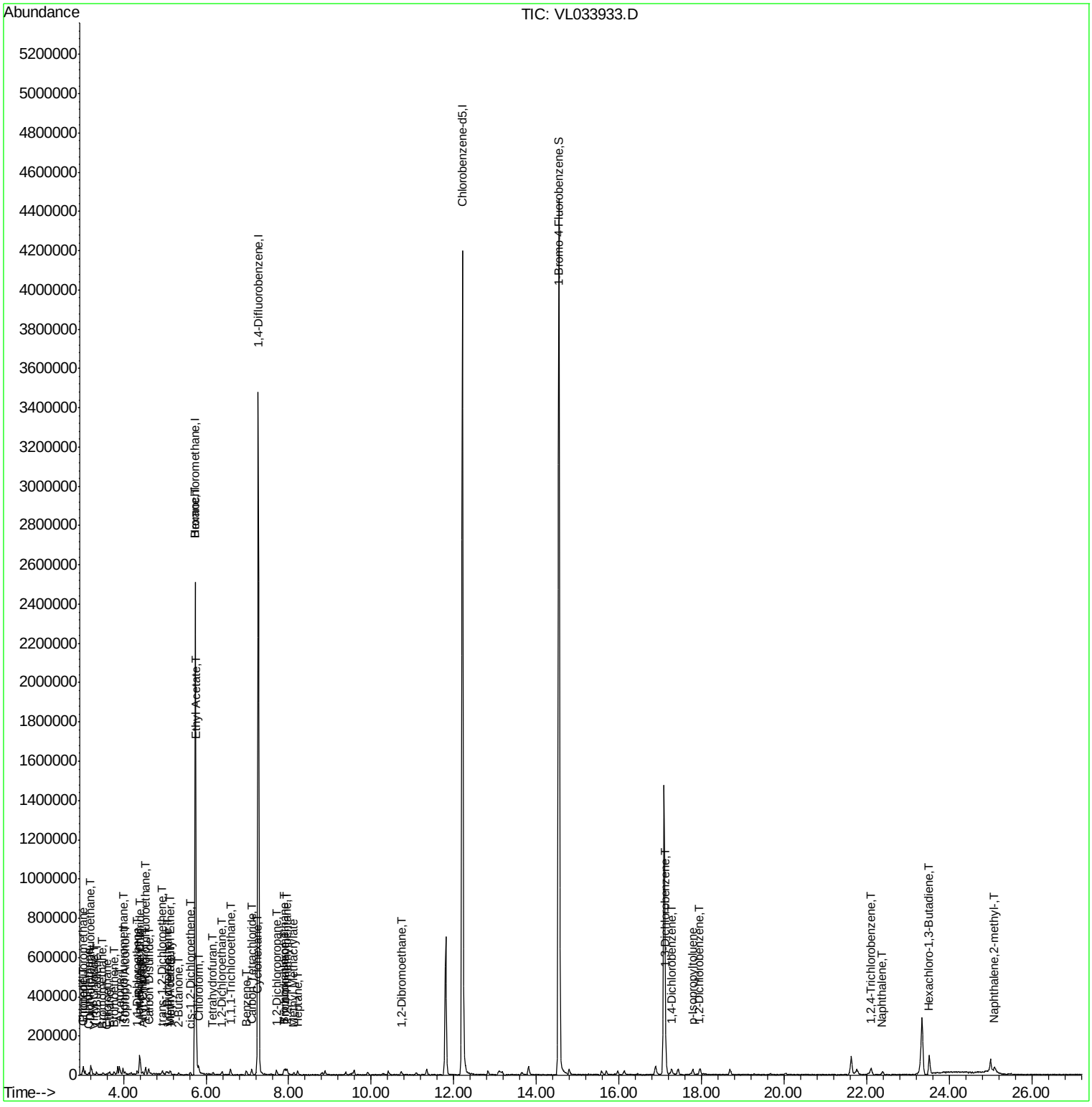
Quantitation Report (QT Reviewed)

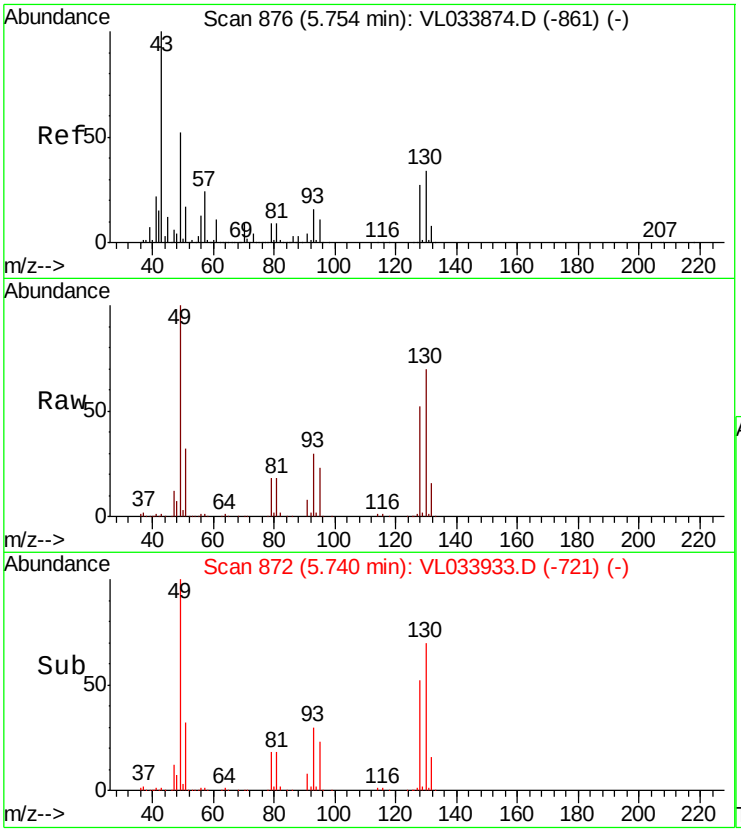
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL062419\
Data File : VL033933.D
Acq On : 24 Jun 2019 12:36
Operator : SY/AP
Sample : QC060619 CAN 10729
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 25 03:52:41 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL060719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Jun
QLast Update : Fri Jun 07 08:53:27 2019
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
QC060619 CAN 10729

Manual Integrations APPROVED
MMDadoda
6/26/2019 8:15:32 AM

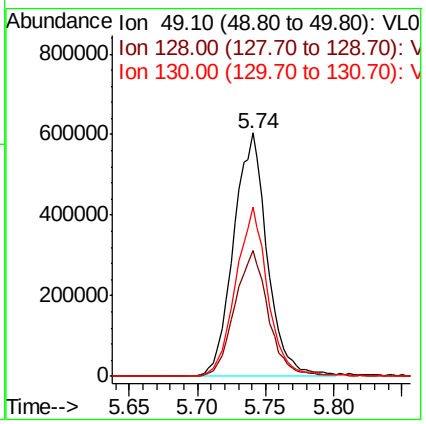




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.74 min Scan# 872
Delta R.T. -0.01 min
Lab File: VL033933.D
Acq: 24 Jun 2019 12:36

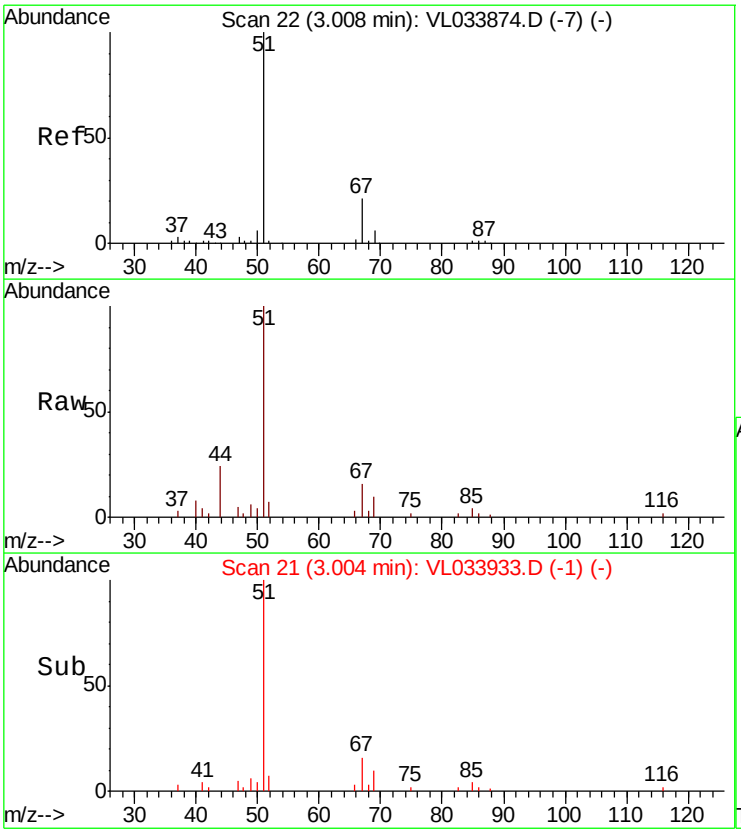
Tgt Ion: 49 Resp: 1031756

Ion	Ratio	Lower	Upper
49	100		
128	51.7	25.5	76.5
130	67.2	32.5	97.4



Instrument :
MSVOA_L
ClientSampleId :
QC060619 CAN 10729

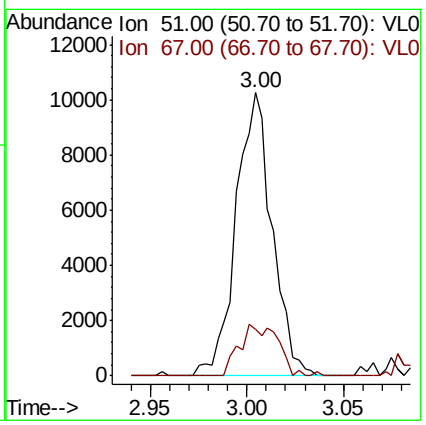
Manual Integrations APPROVED
MMDadoda
6/26/2019 8:15:32 AM

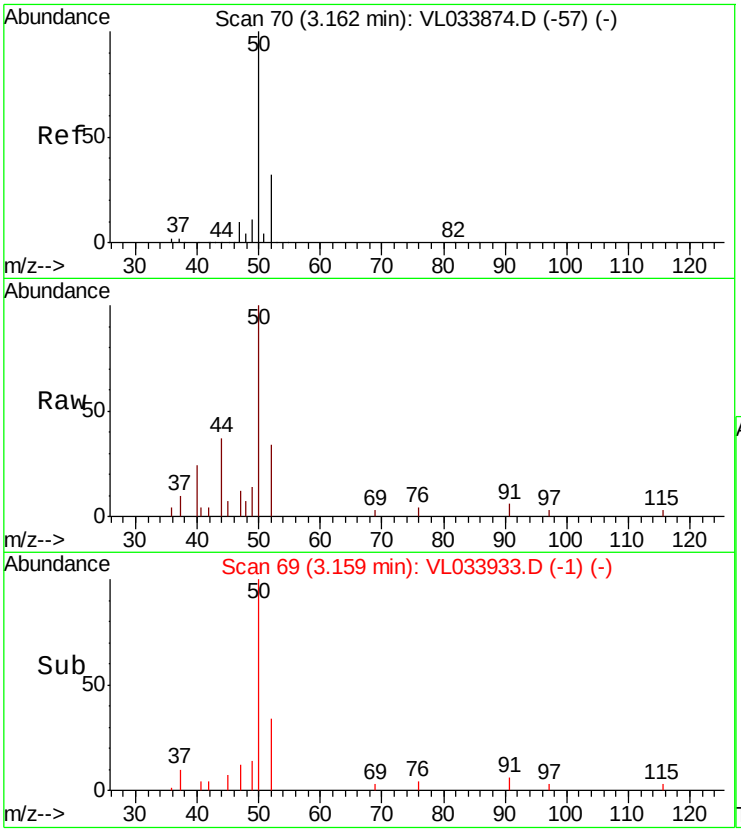


#3
Chlorodifluoromethane
Concen: 0.109 ppbv
RT: 3.00 min Scan# 21
Delta R.T. -0.00 min
Lab File: VL033933.D
Acq: 24 Jun 2019 12:36

Tgt Ion: 51 Resp: 13235

Ion	Ratio	Lower	Upper
51	100		
67	19.5	16.4	24.6

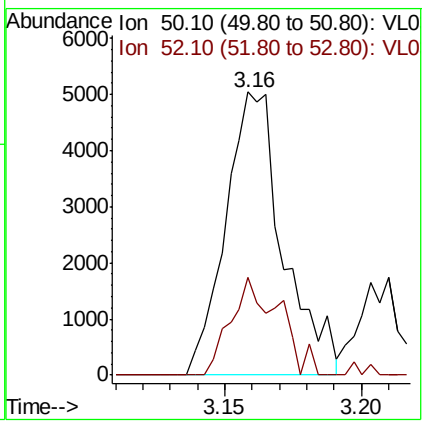




#4
Chloromethane
Concen: 0.107 ppbv
RT: 3.16 min Scan# 69
Delta R.T. -0.00 min
Lab File: VL033933.D
Acq: 24 Jun 2019 12:36

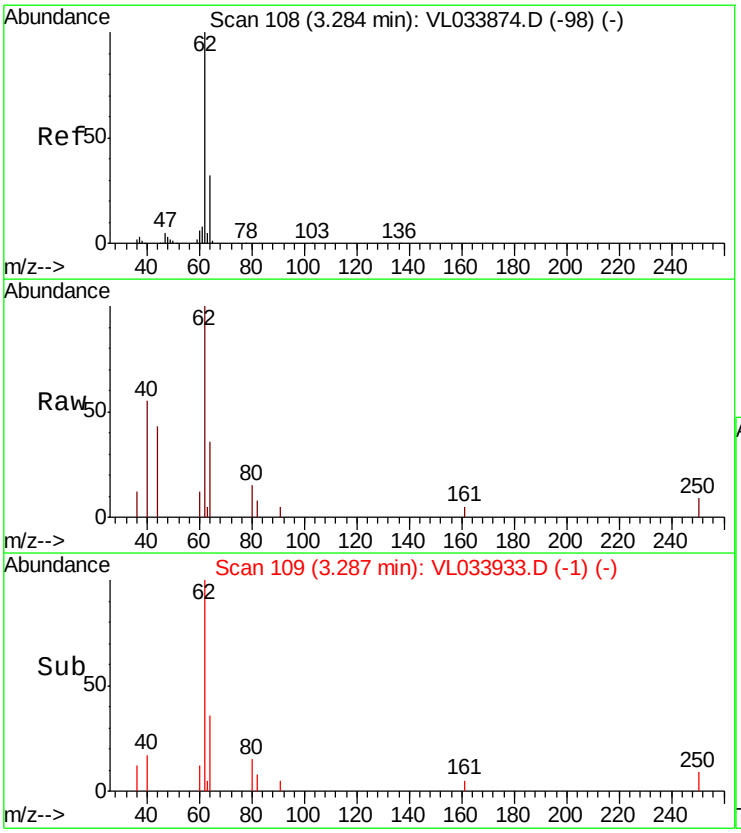
Tgt Ion: 50 Resp: 7417

Ion	Ratio	Lower	Upper
50	100		
52	34.5	25.4	38.0



Instrument :
MSVOA_L
ClientSampleId :
QC060619 CAN 10729

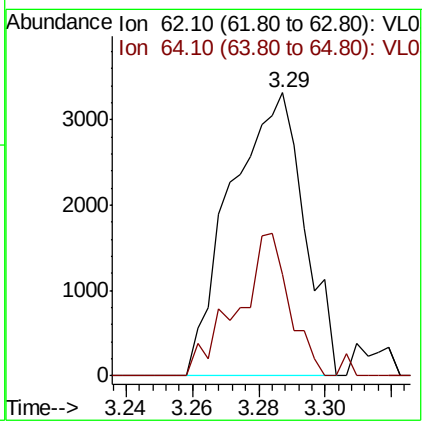
Manual Integrations APPROVED
MMDadoda
6/26/2019 8:15:32 AM

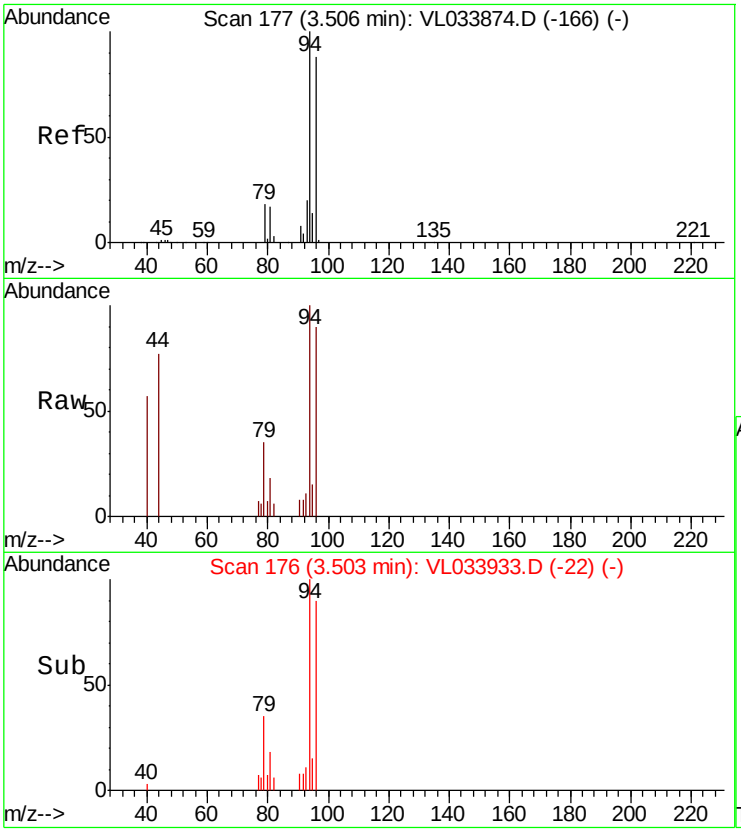


#5
Vinyl Chloride
Concen: 0.079 ppbv
RT: 3.29 min Scan# 109
Delta R.T. 0.00 min
Lab File: VL033933.D
Acq: 24 Jun 2019 12:36

Tgt Ion: 62 Resp: 5079

Ion	Ratio	Lower	Upper
62	100		
64	34.2	25.2	37.8

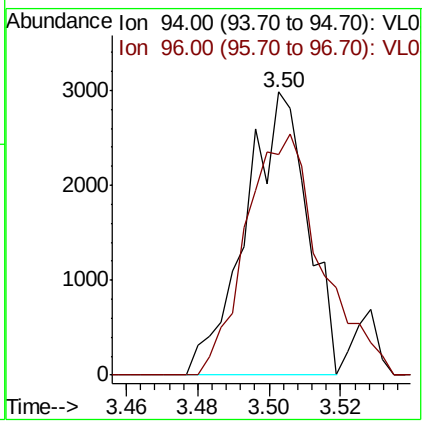




#6
Bromomethane
Concen: 0.084 ppbv
RT: 3.50 min Scan# 176
Delta R.T. -0.00 min
Lab File: VL033933.D
Acq: 24 Jun 2019 12:36

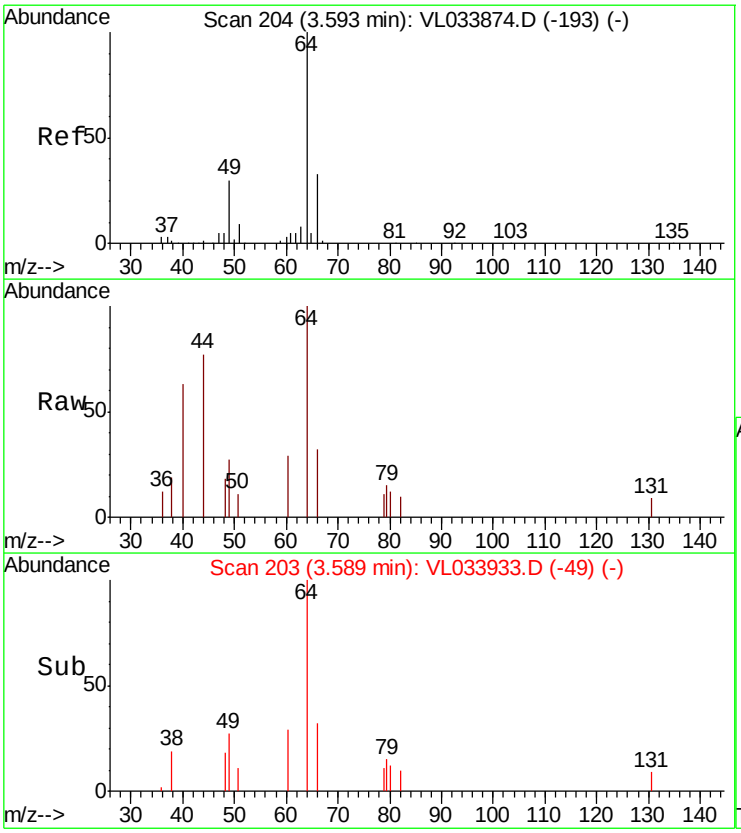
Tgt Ion: 94 Resp: 3576

Ion	Ratio	Lower	Upper
94	100		
96	78.0	70.2	105.2



Instrument :
MSVOA_L
ClientSampleId :
QC060619 CAN 10729

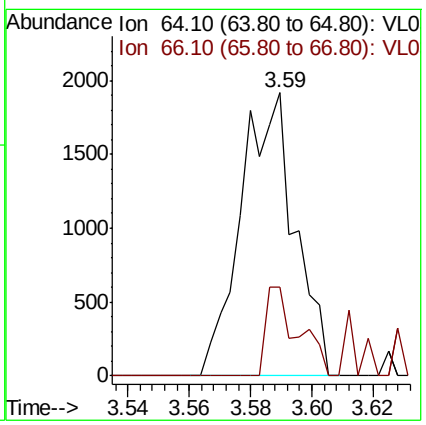
Manual Integrations APPROVED
MMDadoda
6/26/2019 8:15:32 AM

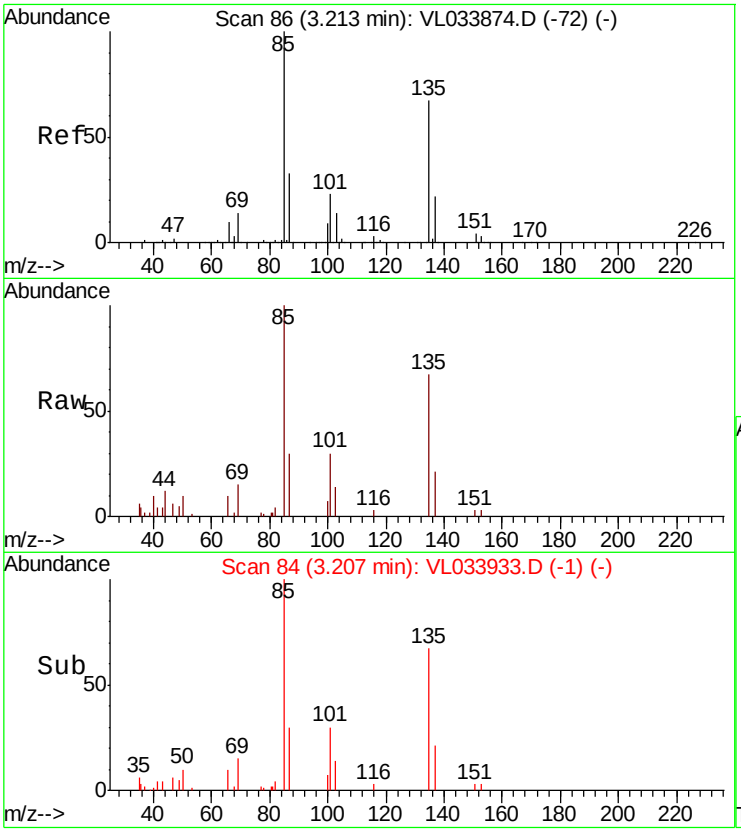


#7
Chloroethane
Concen: 0.092 ppbv m
RT: 3.59 min Scan# 203
Delta R.T. -0.00 min
Lab File: VL033933.D
Acq: 24 Jun 2019 12:36

Tgt Ion: 64 Resp: 2349

Ion	Ratio	Lower	Upper
64	100		
66	31.6	26.7	40.1

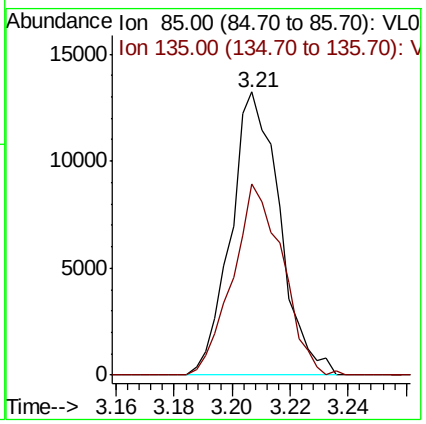




#8
Dichlorotetrafluoroethane
Concen: 0.087 ppbv
RT: 3.21 min Scan# 84
Delta R.T. -0.01 min
Lab File: VL033933.D
Acq: 24 Jun 2019 12:36

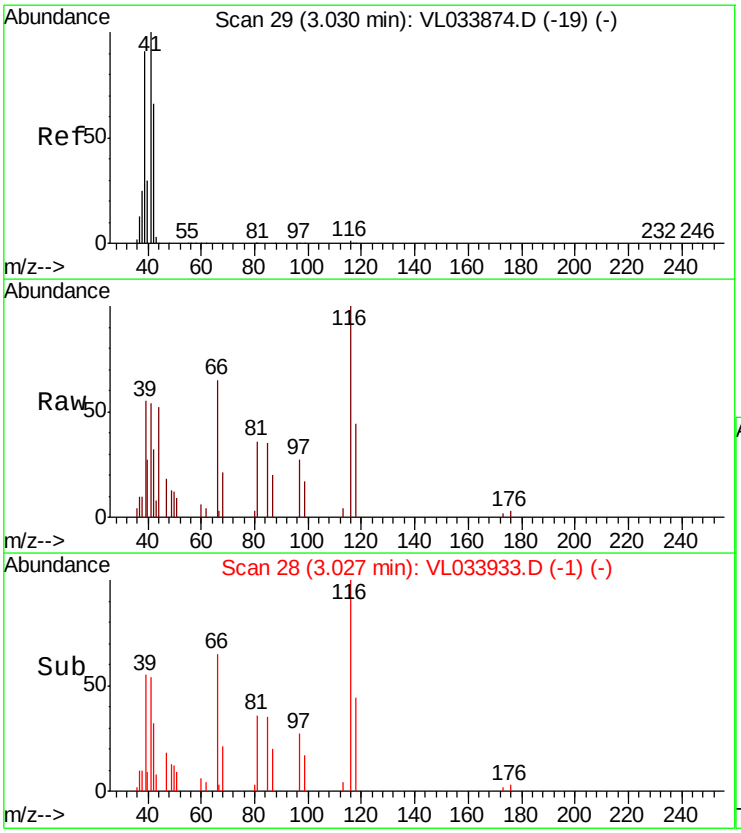
Tgt Ion: 85 Resp: 15510

Ion	Ratio	Lower	Upper
85	100		
135	68.8	53.7	80.5



Instrument :
MSVOA_L
ClientSampleId :
QC060619 CAN 10729

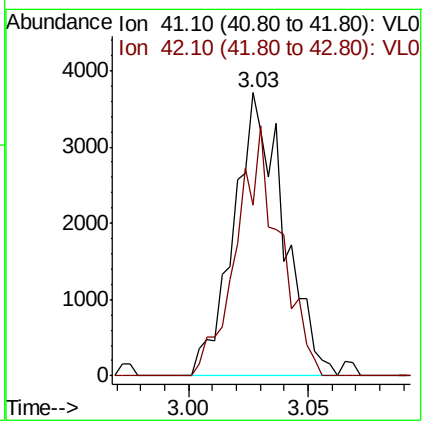
Manual Integrations APPROVED
MMDadoda
6/26/2019 8:15:32 AM

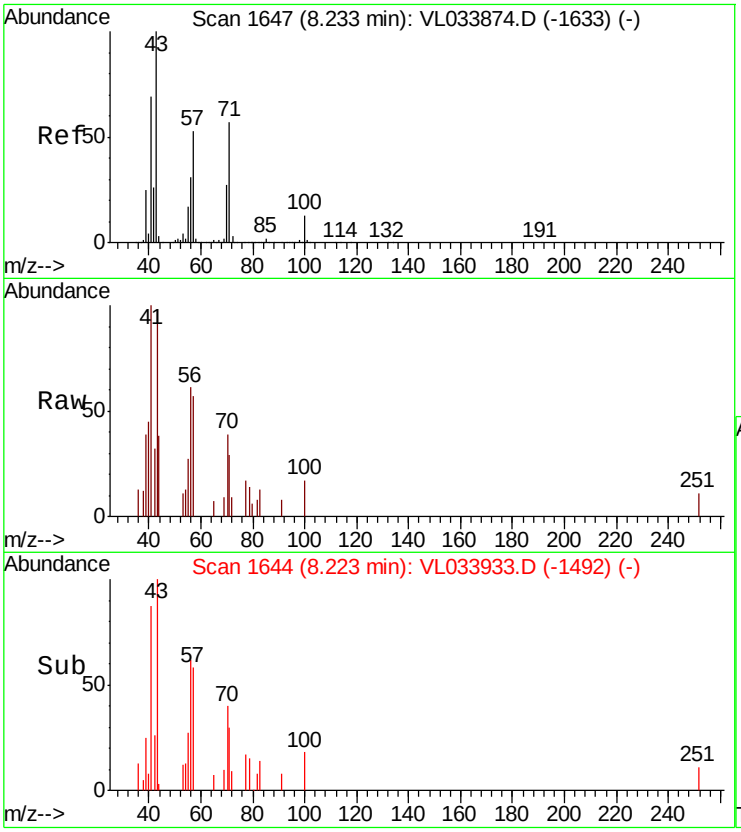


#9
Propene
Concen: 0.119 ppbv m
RT: 3.03 min Scan# 28
Delta R.T. -0.00 min
Lab File: VL033933.D
Acq: 24 Jun 2019 12:36

Tgt Ion: 41 Resp: 5407

Ion	Ratio	Lower	Upper
41	100		
42	76.0	56.3	84.5





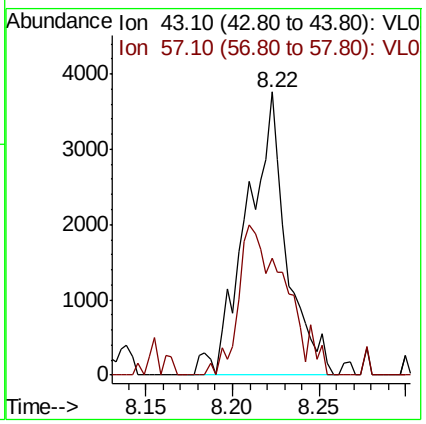
#10
Heptane
Concen: 0.052 ppbv m
RT: 8.22 min Scan# 1644
Delta R.T. -0.01 min
Lab File: VL033933.D
Acq: 24 Jun 2019 12:36

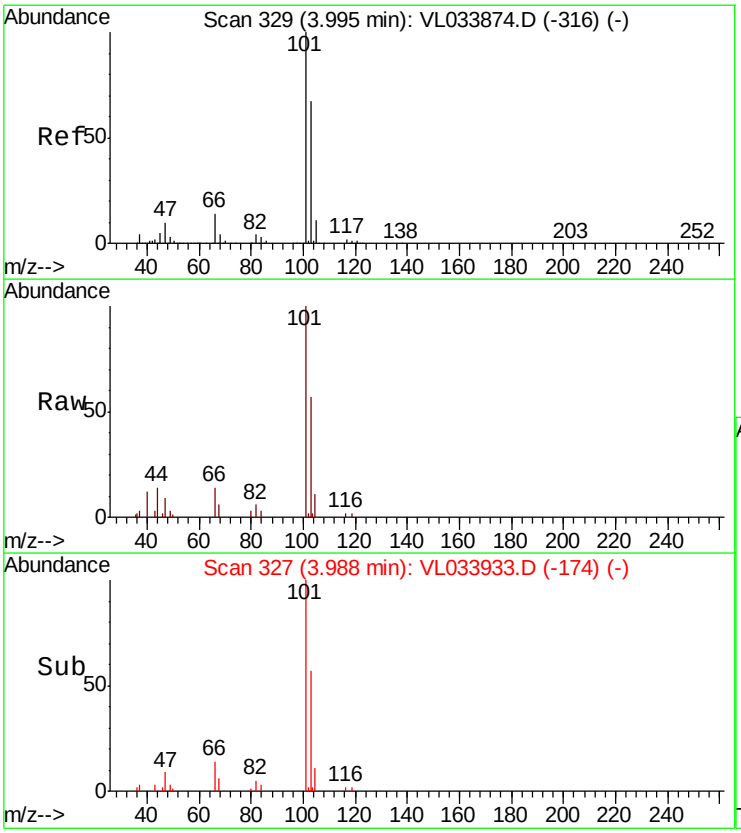
Tgt Ion: 43 Resp: 6024

Ion	Ratio	Lower	Upper
43	100		
57	61.9	41.7	62.5

Instrument :
MSVOA_L
ClientSampleId :
QC060619 CAN 10729

Manual Integrations APPROVED
MMDadoda
6/26/2019 8:15:32 AM

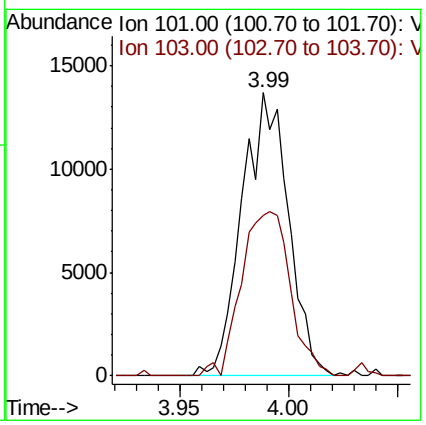


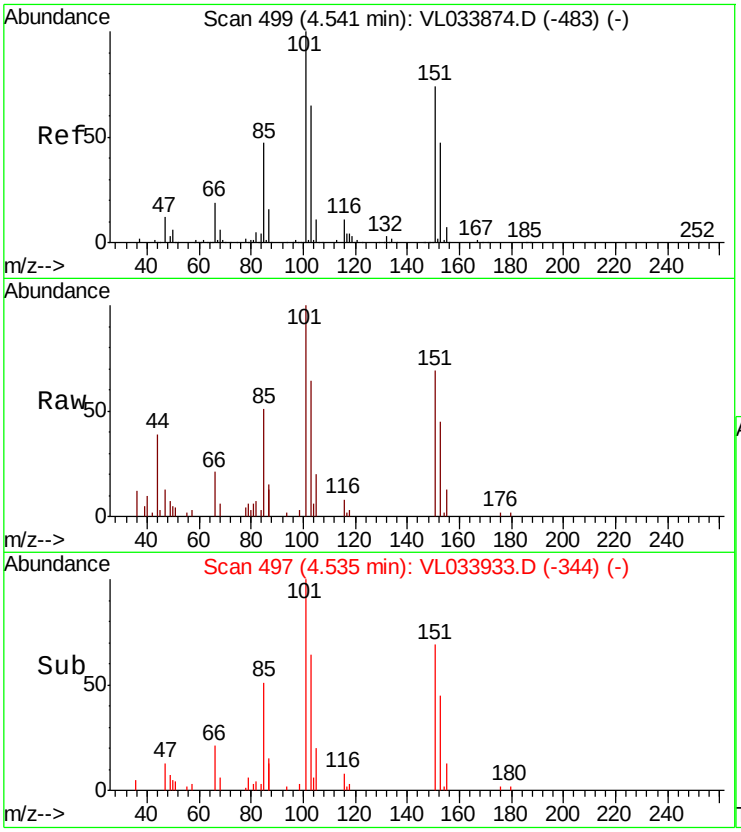


#11
Trichlorofluoromethane
Concen: 0.093 ppbv m
RT: 3.99 min Scan# 327
Delta R.T. -0.01 min
Lab File: VL033933.D
Acq: 24 Jun 2019 12:36

Tgt Ion:101 Resp: 20086

Ion	Ratio	Lower	Upper
101	100		
103	56.5	53.6	80.4





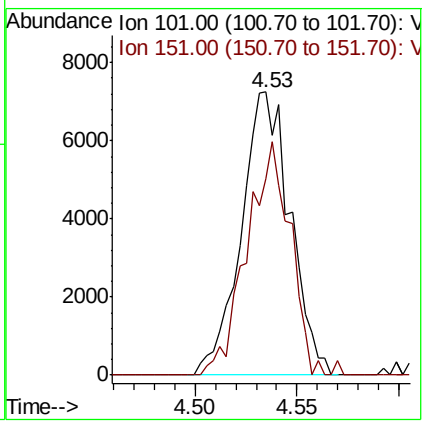
#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.083 ppbv m
RT: 4.53 min Scan# 497
Delta R.T. -0.01 min
Lab File: VL033933.D
Acq: 24 Jun 2019 12:36

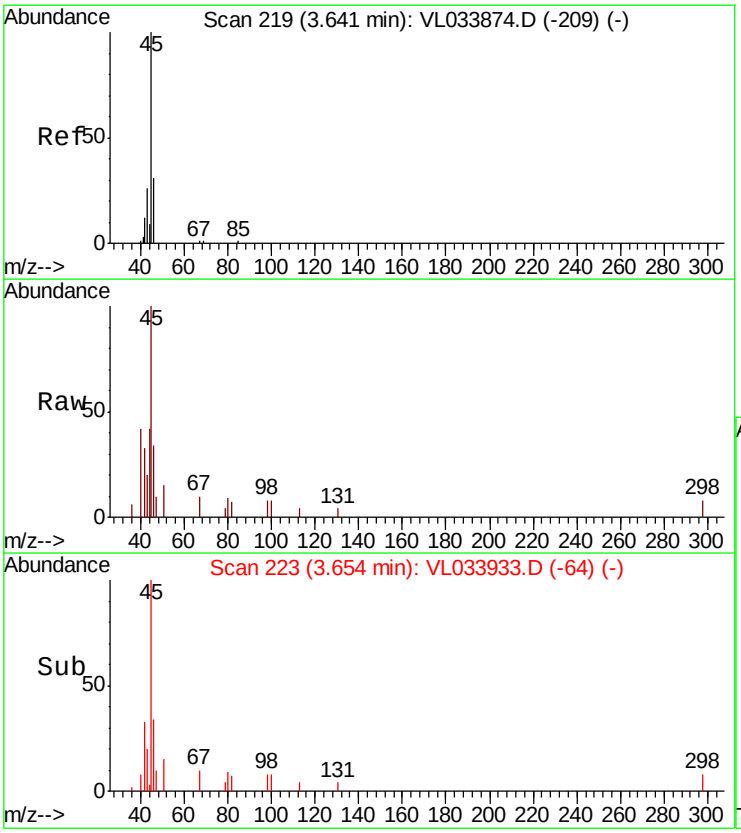
Tgt Ion:101 Resp: 12190

Ion	Ratio	Lower	Upper
101	100		
151	0.0	58.6	87.8#

Instrument :
MSVOA_L
ClientSampleId :
QC060619 CAN 10729

Manual Integrations APPROVED
MMDadoda
6/26/2019 8:15:32 AM

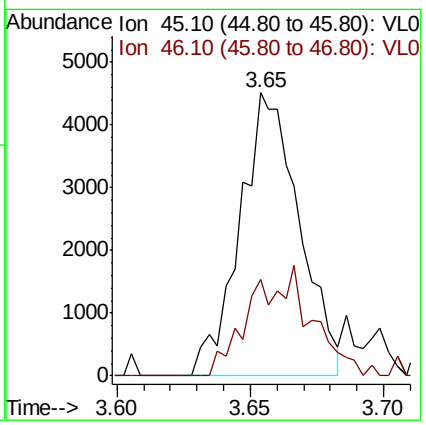


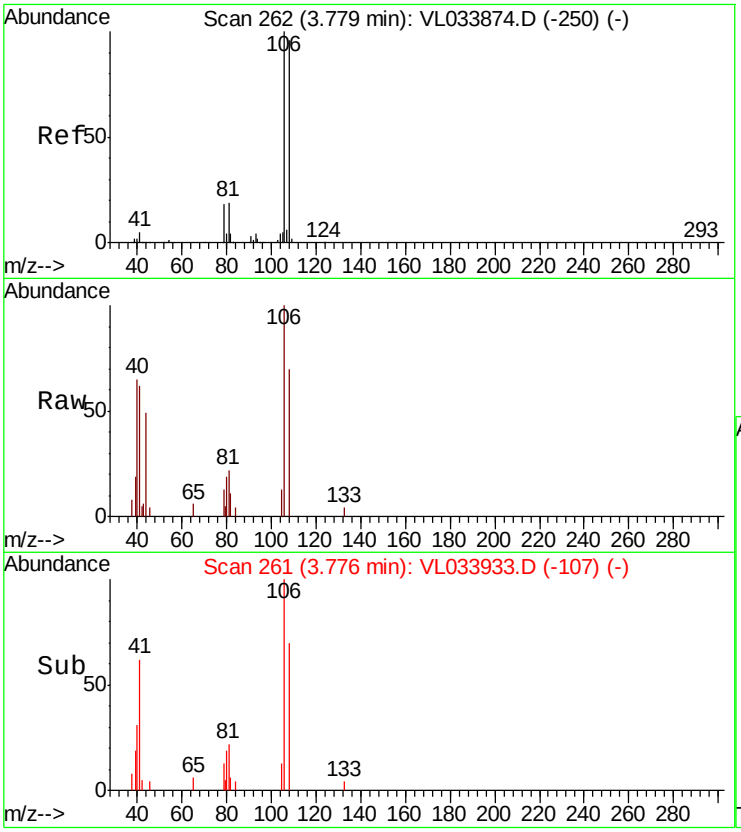


#13
Ethanol
Concen: 0.476 ppbv m
RT: 3.65 min Scan# 223
Delta R.T. 0.01 min
Lab File: VL033933.D
Acq: 24 Jun 2019 12:36

Tgt Ion: 45 Resp: 7040

Ion	Ratio	Lower	Upper
45	100		
46	0.0	15.3	61.1#

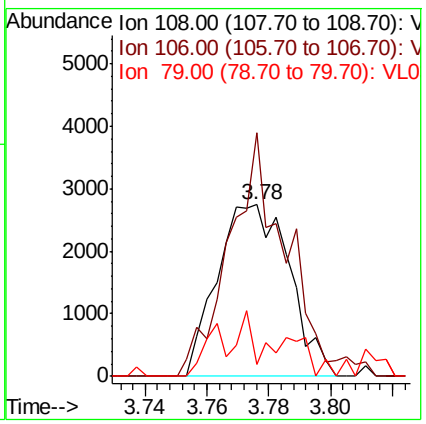




#14
Bromoethene
Concen: 0.082 ppbv
RT: 3.78 min Scan# 261
Delta R.T. -0.00 min
Lab File: VL033933.D
Acq: 24 Jun 2019 12:36

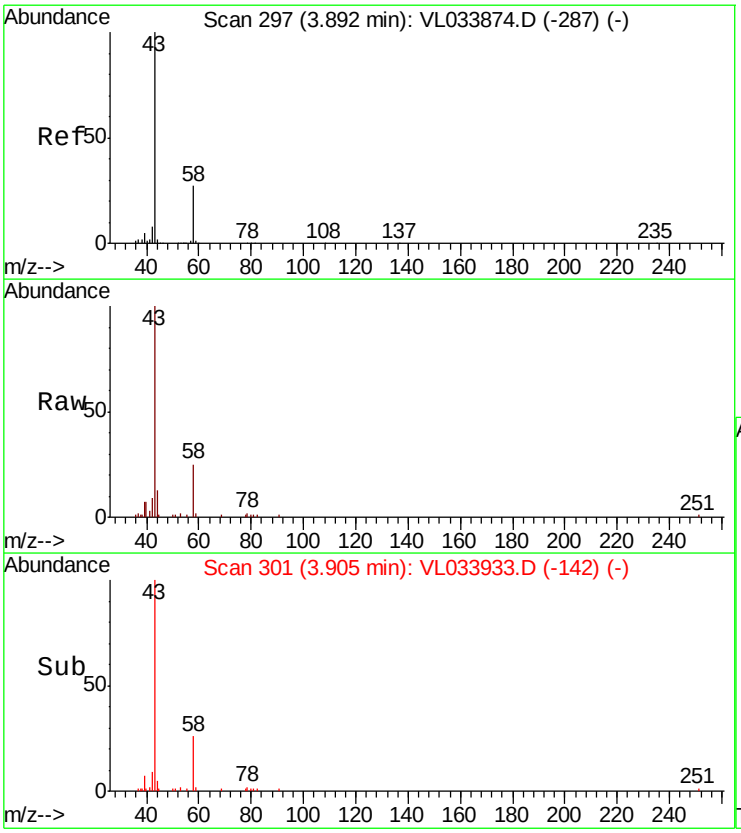
Tgt Ion:108 Resp: 4468

Ion	Ratio	Lower	Upper
108	100		
106	112.4	84.9	127.3
79	36.8	15.4	23.0#



Instrument :
MSVOA_L
ClientSampleId :
QC060619 CAN 10729

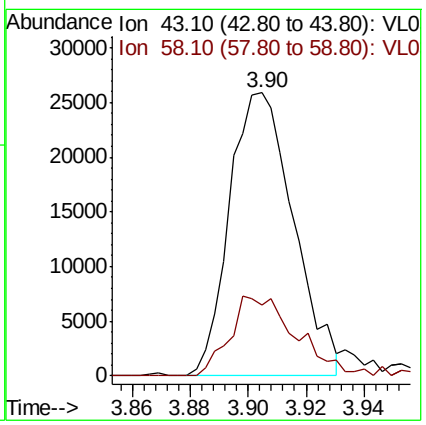
Manual Integrations APPROVED
MMDadoda
6/26/2019 8:15:32 AM

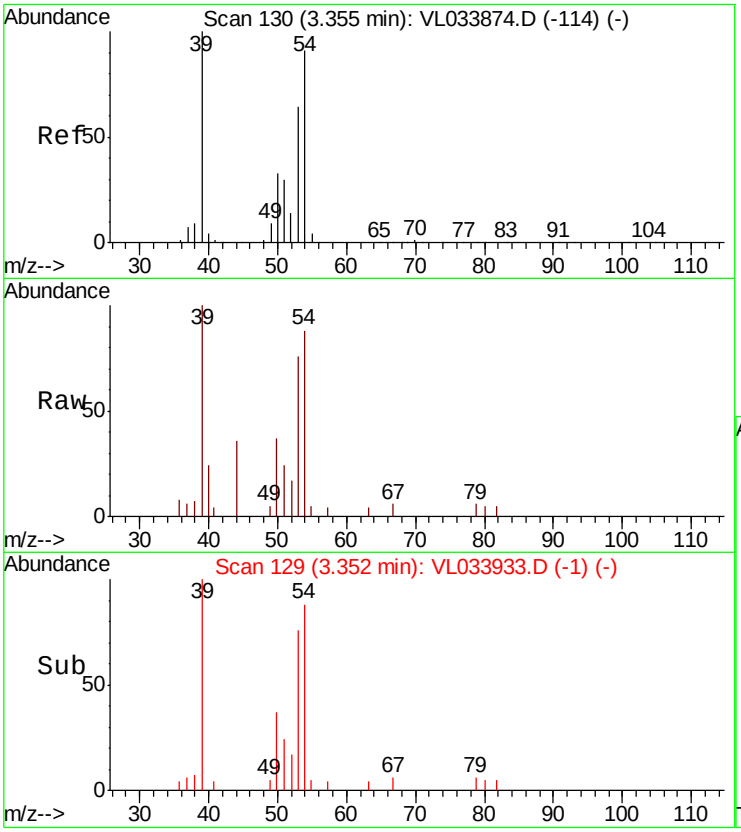


#15
Acetone
Concen: 0.264 ppbv
RT: 3.90 min Scan# 301
Delta R.T. 0.01 min
Lab File: VL033933.D
Acq: 24 Jun 2019 12:36

Tgt Ion: 43 Resp: 39651

Ion	Ratio	Lower	Upper
43	100		
58	29.2	21.3	31.9





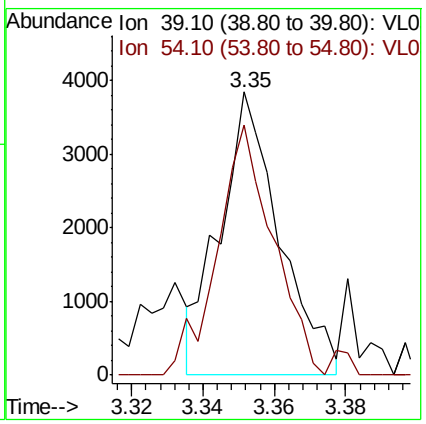
#16
1,3-Butadiene
Concen: 0.078 ppbv
RT: 3.35 min Scan# 129
Delta R.T. -0.00 min
Lab File: VL033933.D
Acq: 24 Jun 2019 12:36

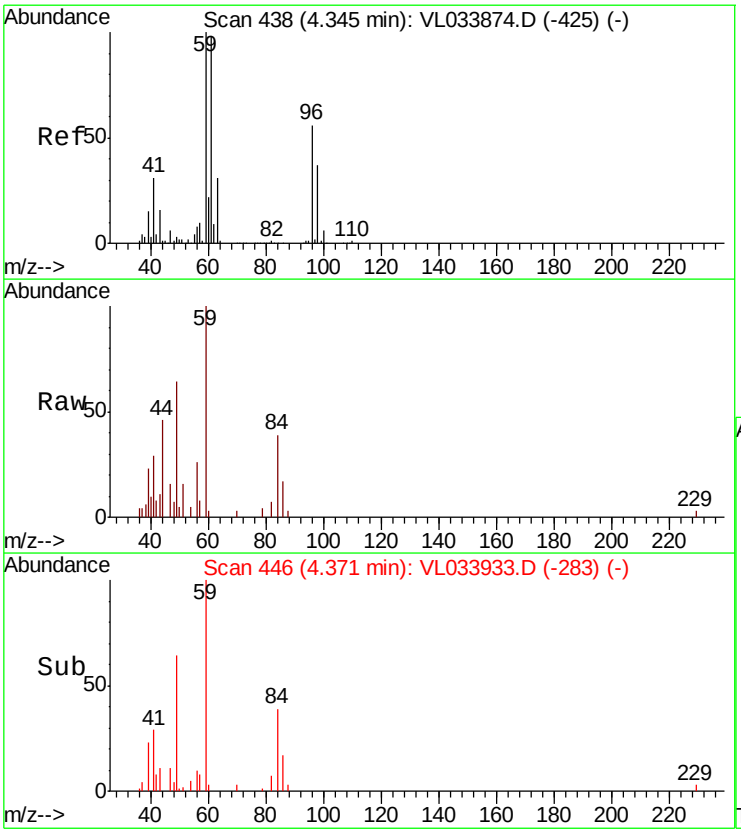
Tgt Ion: 39 Resp: 4446

Ion	Ratio	Lower	Upper
39	100		
54	85.6	68.6	103.0

Instrument :
MSVOA_L
ClientSampleId :
QC060619 CAN 10729

Manual Integrations APPROVED
MMDadoda
6/26/2019 8:15:32 AM

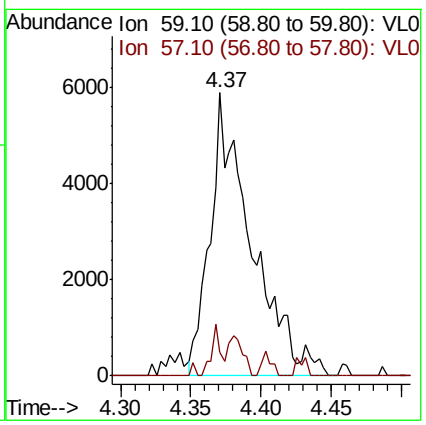


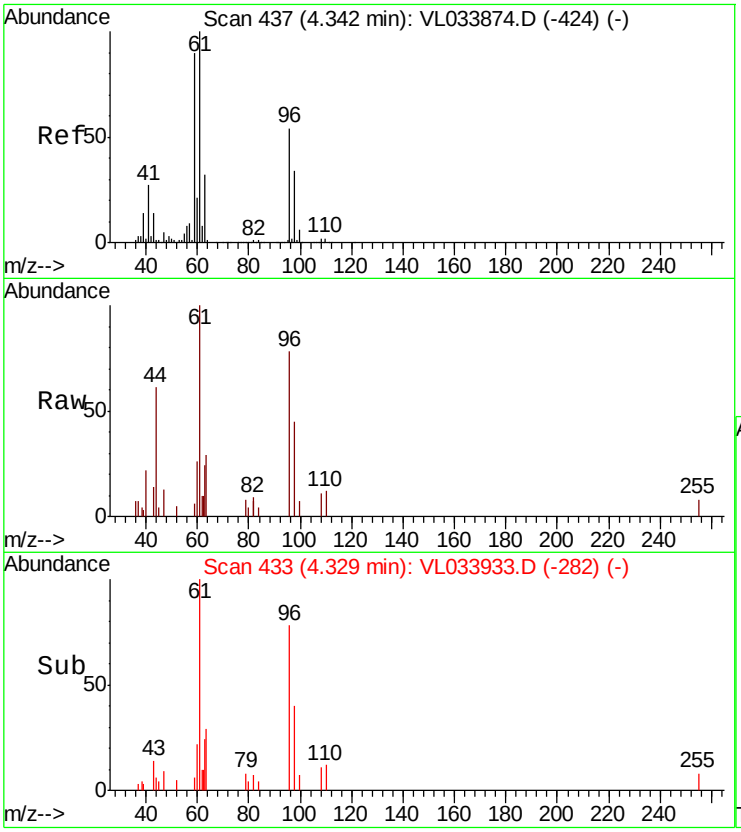


#17
tert-Butyl alcohol
Concen: 0.102 ppbv m
RT: 4.37 min Scan# 446
Delta R.T. 0.03 min
Lab File: VL033933.D
Acq: 24 Jun 2019 12:36

Tgt Ion: 59 Resp: 11985

Ion	Ratio	Lower	Upper
59	100		
57	0.3	8.4	12.6#

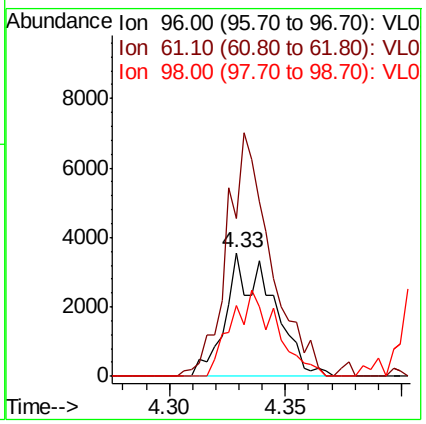




#18
1,1-Dichloroethene
Concen: 0.080 ppbv m
RT: 4.33 min Scan# 433
Delta R.T. -0.01 min
Lab File: VL033933.D
Acq: 24 Jun 2019 12:36

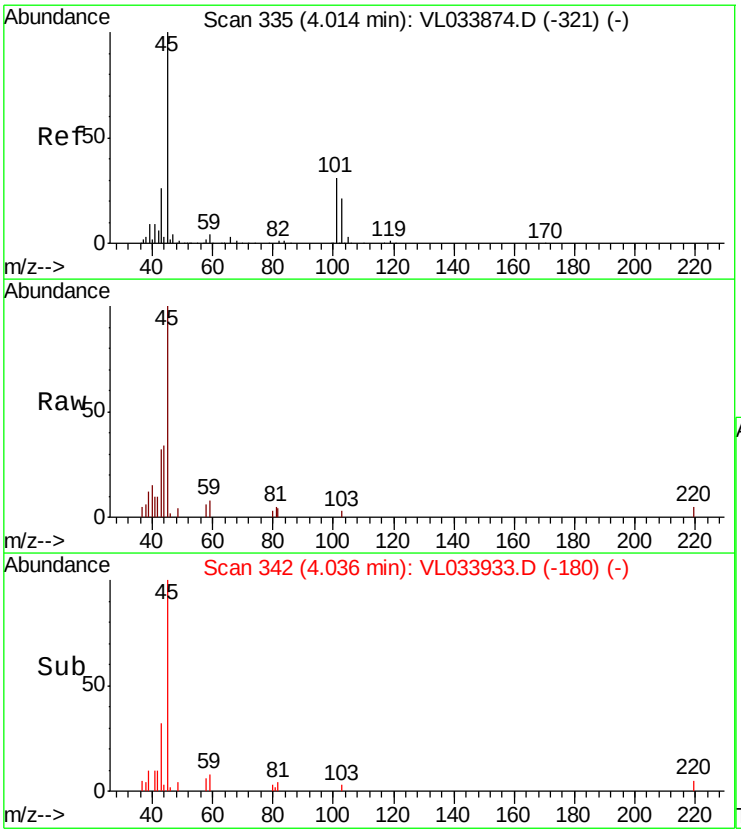
Tgt Ion: 96 Resp: 4963

Ion	Ratio	Lower	Upper
96	100		
61	128.4	147.0	220.6#
98	57.2	49.4	74.0



Instrument :
MSVOA_L
ClientSampleId :
QC060619 CAN 10729

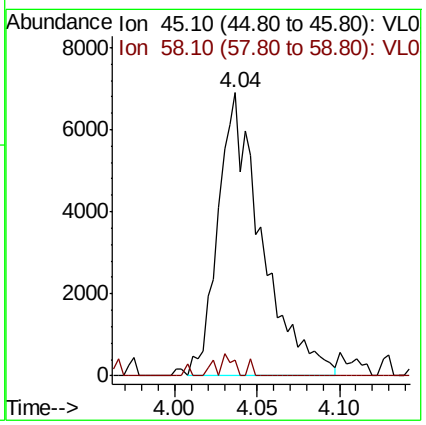
Manual Integrations APPROVED
MMDadoda
6/26/2019 8:15:32 AM

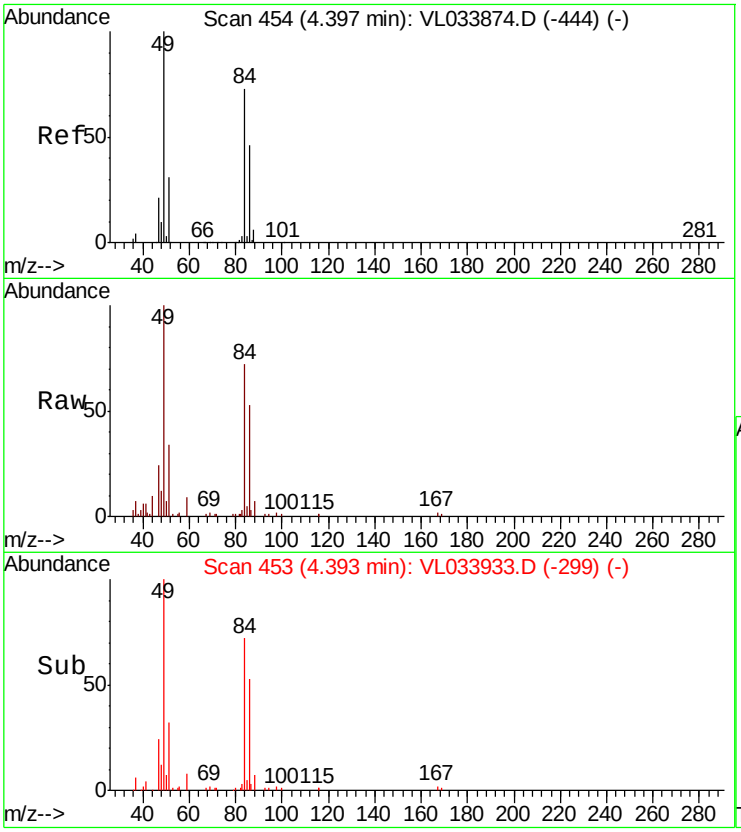


#19
Isopropyl Alcohol
Concen: 0.149 ppbv m
RT: 4.04 min Scan# 342
Delta R.T. 0.02 min
Lab File: VL033933.D
Acq: 24 Jun 2019 12:36

Tgt Ion: 45 Resp: 12768

Ion	Ratio	Lower	Upper
45	100		
58	0.0	1.8	2.6#

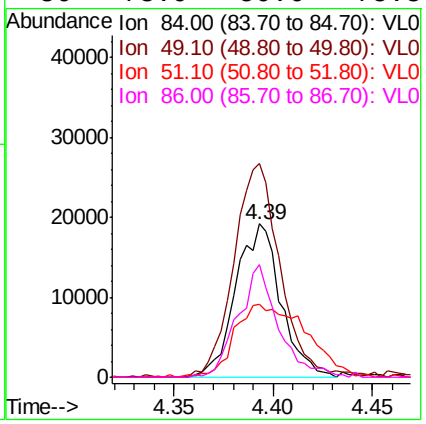




#20
Methylene Chloride
Concen: 0.514 ppbv m
RT: 4.39 min Scan# 453
Delta R.T. -0.00 min
Lab File: VL033933.D
Acq: 24 Jun 2019 12:36

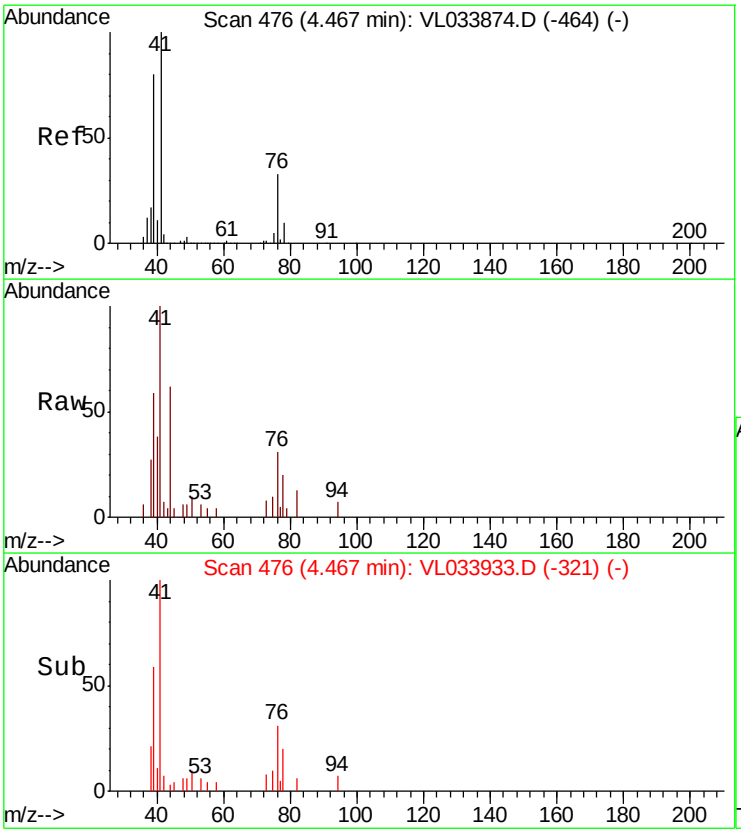
Tgt Ion: 84 Resp: 30170

Ion	Ratio	Lower	Upper
84	100		
49	139.4	110.0	165.0
51	47.3	34.6	51.8
86	73.9	50.6	75.8



Instrument :
MSVOA_L
ClientSampleId :
QC060619 CAN 10729

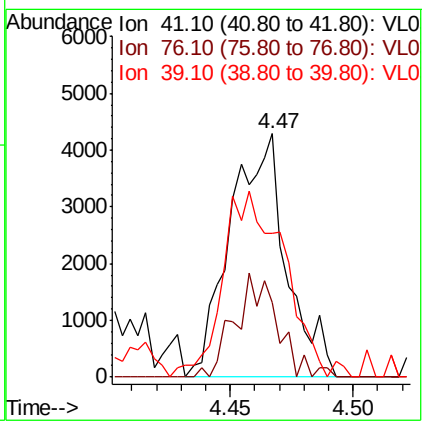
Manual Integrations APPROVED
MMDadoda
6/26/2019 8:15:32 AM

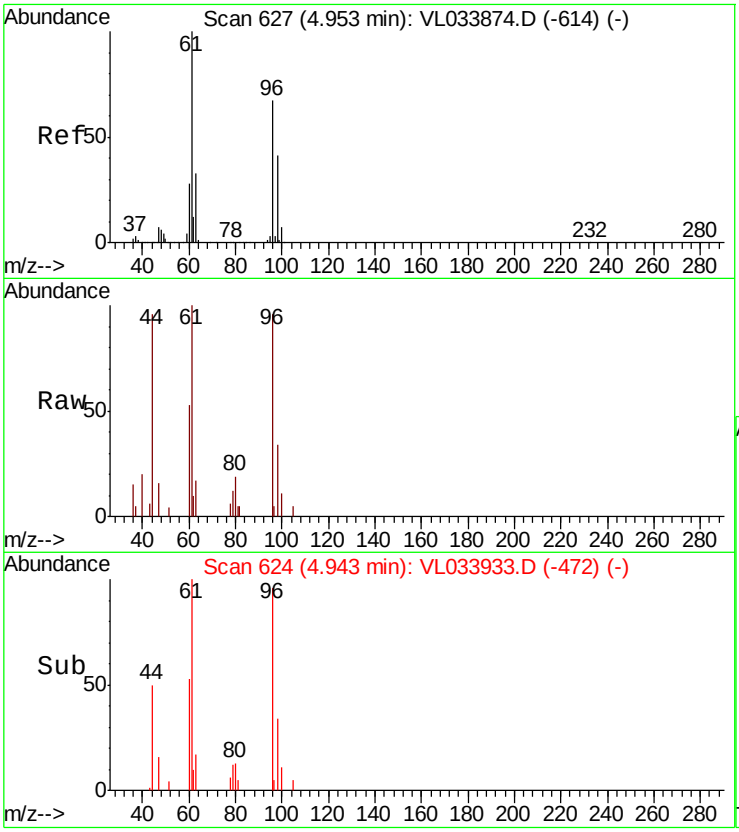


#21
Allyl Chloride
Concen: 0.080 ppbv m
RT: 4.47 min Scan# 476
Delta R.T. -0.00 min
Lab File: VL033933.D
Acq: 24 Jun 2019 12:36

Tgt Ion: 41 Resp: 6837

Ion	Ratio	Lower	Upper
41	100		
76	32.5	26.6	39.8
39	83.7	65.2	97.8

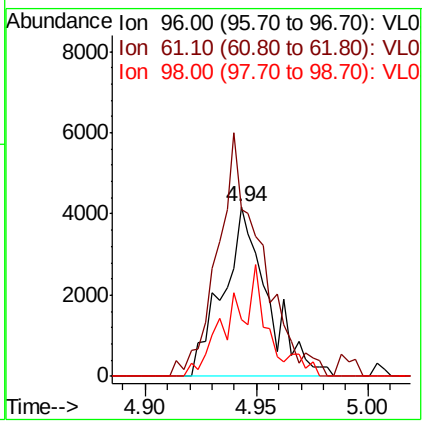




#22
trans-1,2-Dichloroethene
Concen: 0.090 ppbv m
RT: 4.94 min Scan# 624
Delta R.T. -0.01 min
Lab File: VL033933.D
Acq: 24 Jun 2019 12:36

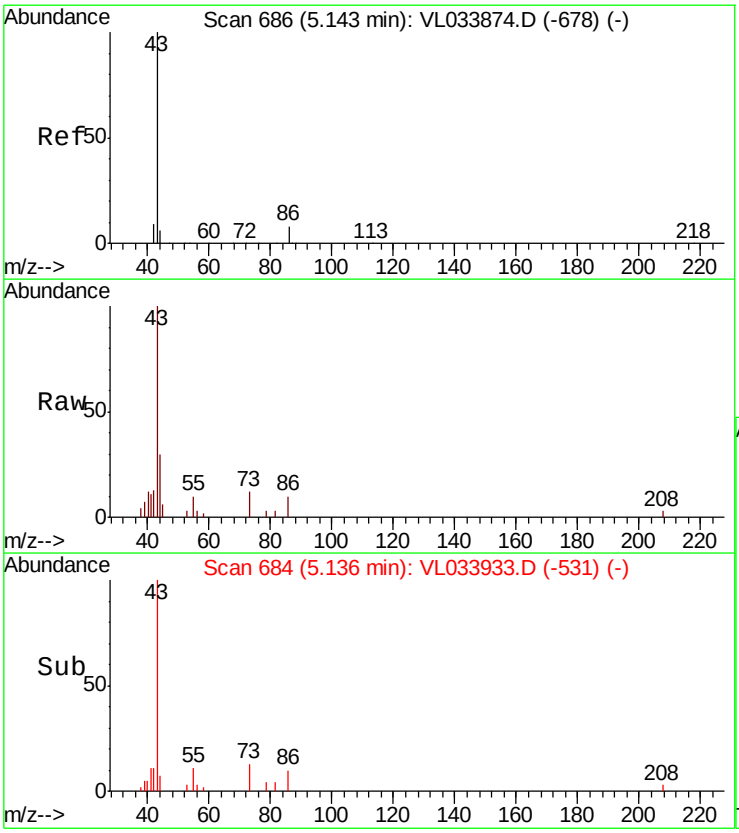
Tgt Ion: 96 Resp: 5857

Ion	Ratio	Lower	Upper
96	100		
61	103.7	119.0	178.6#
98	35.7	48.3	72.5#



Instrument :
MSVOA_L
ClientSampleId :
QC060619 CAN 10729

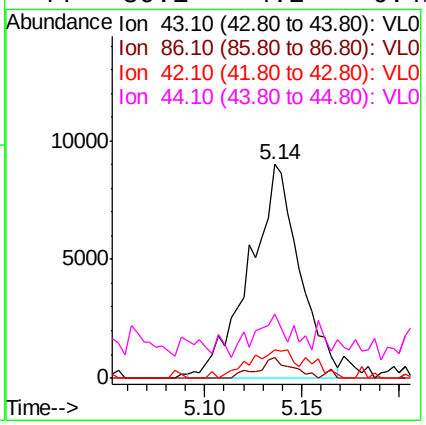
Manual Integrations APPROVED
MMDadoda
6/26/2019 8:15:32 AM

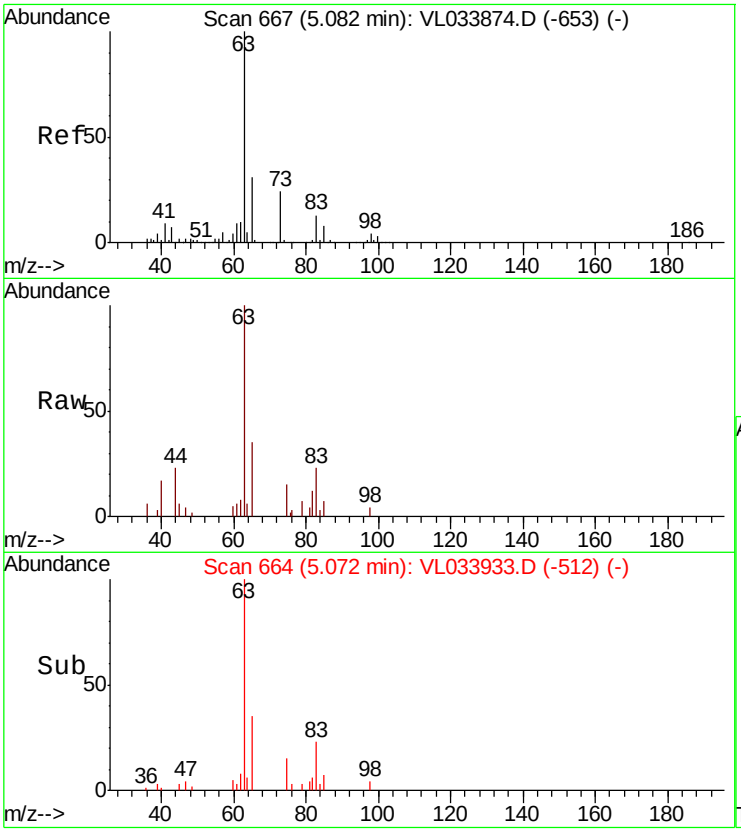


#23
Vinyl Acetate
Concen: 0.092 ppbv m
RT: 5.14 min Scan# 684
Delta R.T. -0.01 min
Lab File: VL033933.D
Acq: 24 Jun 2019 12:36

Tgt Ion: 43 Resp: 16131

Ion	Ratio	Lower	Upper
43	100		
86	9.7	5.8	8.8#
42	13.3	7.8	11.8#
44	30.1	4.2	6.4#

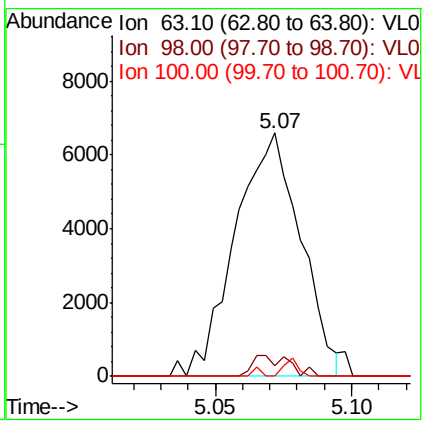




#24
1,1-Dichloroethane
Concen: 0.080 ppbv
RT: 5.07 min Scan# 664
Delta R.T. -0.01 min
Lab File: VL033933.D
Acq: 24 Jun 2019 12:36

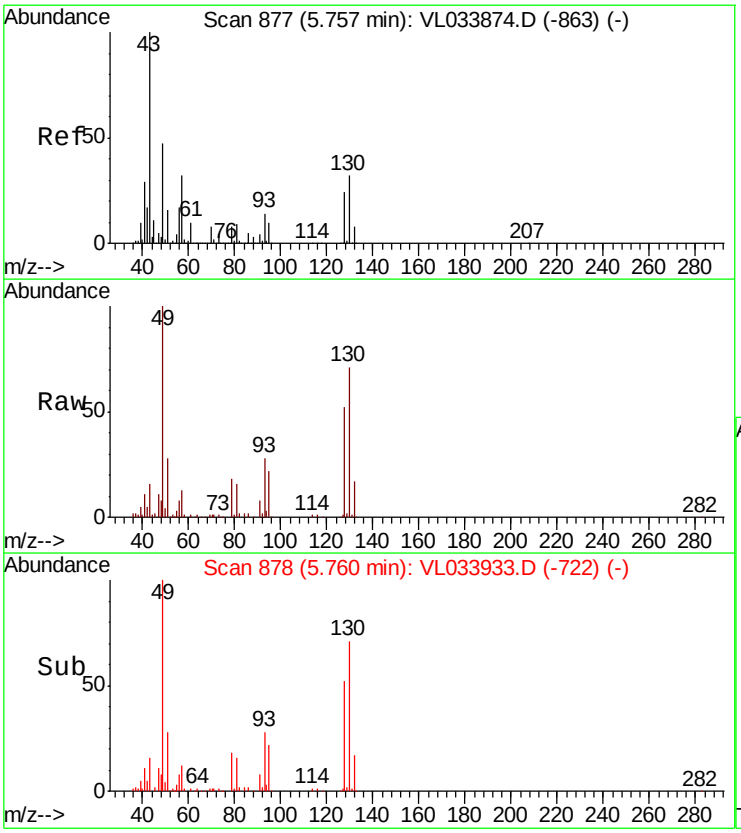
Tgt Ion: 63 Resp: 10916

Ion	Ratio	Lower	Upper
63	100		
98	4.0	2.2	6.6
100	0.0	1.3	3.8#



Instrument :
MSVOA_L
ClientSampleId :
QC060619 CAN 10729

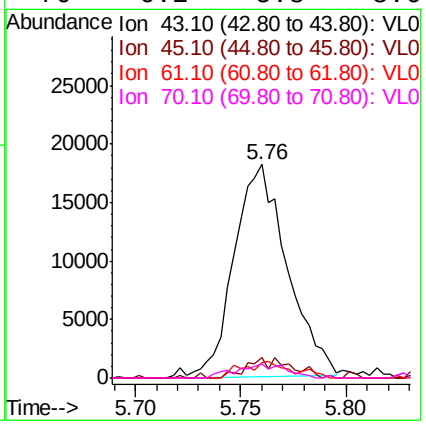
Manual Integrations APPROVED
MMDadoda
6/26/2019 8:15:32 AM

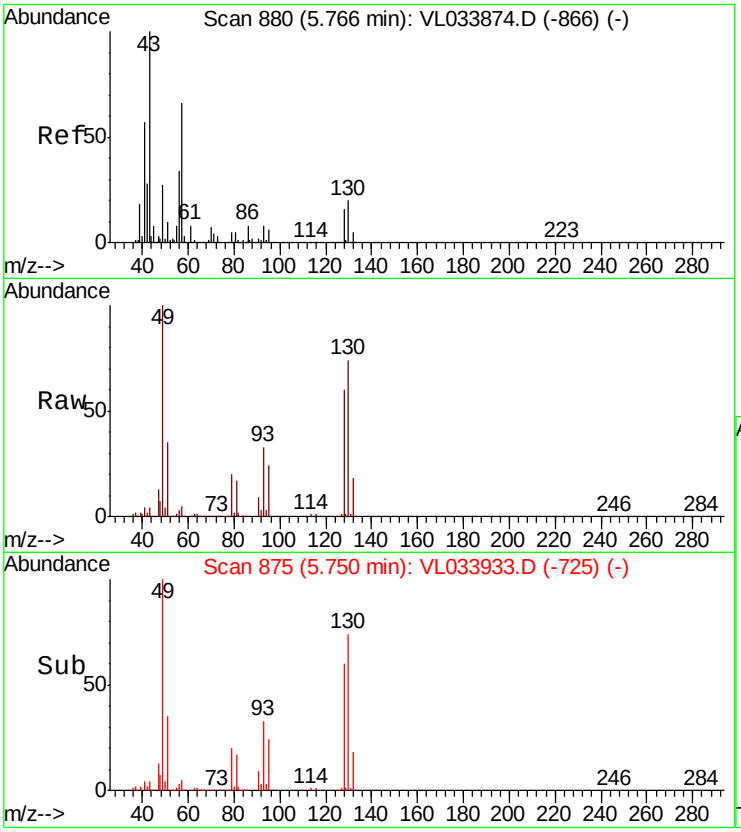


#25
Ethyl Acetate
Concen: 0.138 ppbv
RT: 5.76 min Scan# 878
Delta R.T. 0.00 min
Lab File: VL033933.D
Acq: 24 Jun 2019 12:36

Tgt Ion: 43 Resp: 31516

Ion	Ratio	Lower	Upper
43	100		
45	8.9	7.9	11.9
61	7.3	7.8	11.6#
70	6.2	5.8	8.6

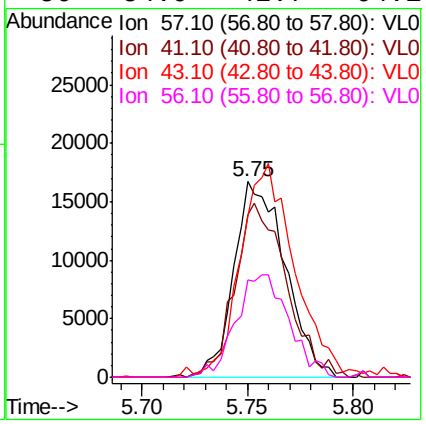




#26
Hexane
Concen: 0.270 ppbv
RT: 5.75 min Scan# 875
Delta R.T. -0.02 min
Lab File: VL033933.D
Acq: 24 Jun 2019 12:36

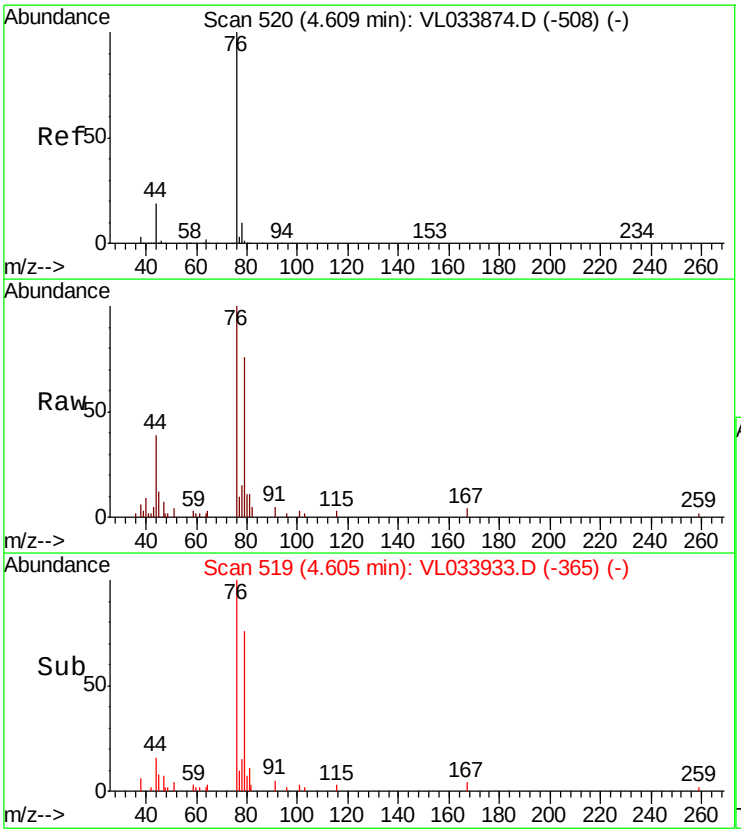
Tgt Ion: 57 Resp: 28182

Ion	Ratio	Lower	Upper
57	100		
41	89.6	71.4	107.2
43	116.0	183.7	275.5#
56	54.9	42.7	64.1



Instrument :
MSVOA_L
ClientSampleId :
QC060619 CAN 10729

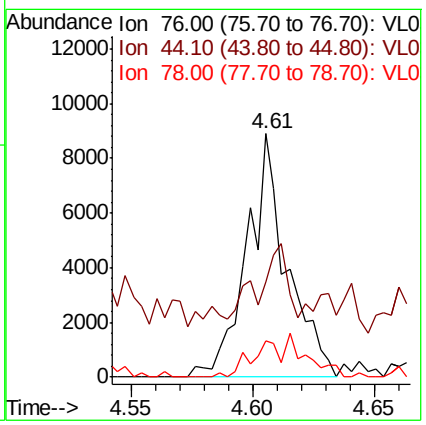
Manual Integrations APPROVED
MMDadoda
6/26/2019 8:15:32 AM

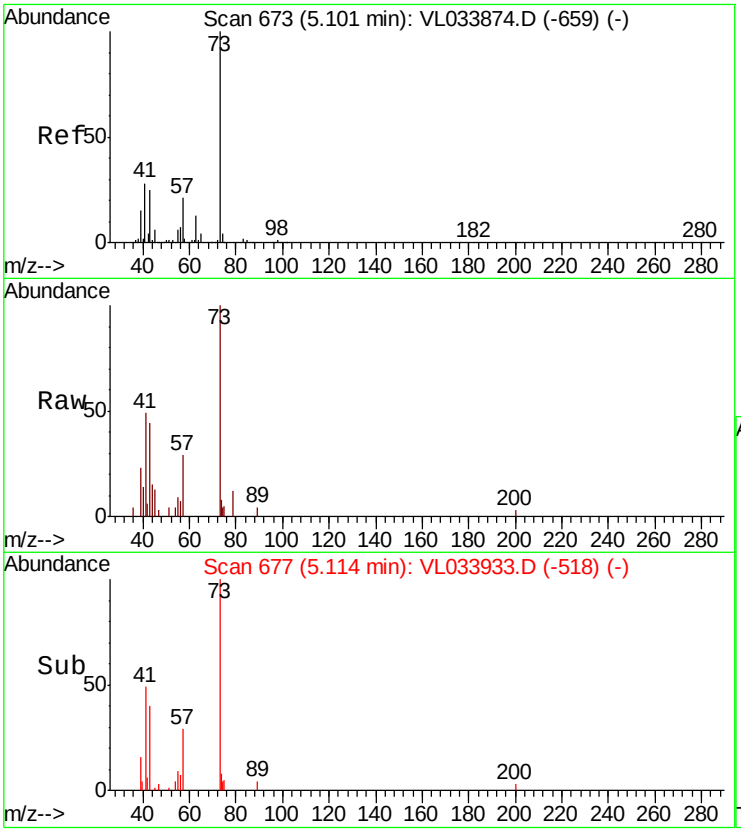


#27
Carbon Disulfide
Concen: 0.070 ppbv m
RT: 4.61 min Scan# 519
Delta R.T. -0.00 min
Lab File: VL033933.D
Acq: 24 Jun 2019 12:36

Tgt Ion: 76 Resp: 10180

Ion	Ratio	Lower	Upper
76	100		
44	0.0	14.4	21.6#
78	0.0	7.5	11.3#

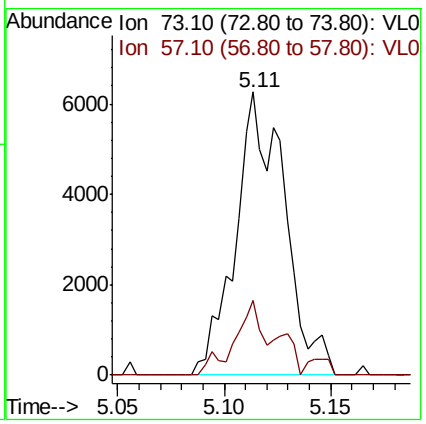




#28
Methyl tert-Butyl Ether
Concen: 0.064 ppbv m
RT: 5.11 min Scan# 677
Delta R.T. 0.01 min
Lab File: VL033933.D
Acq: 24 Jun 2019 12:36

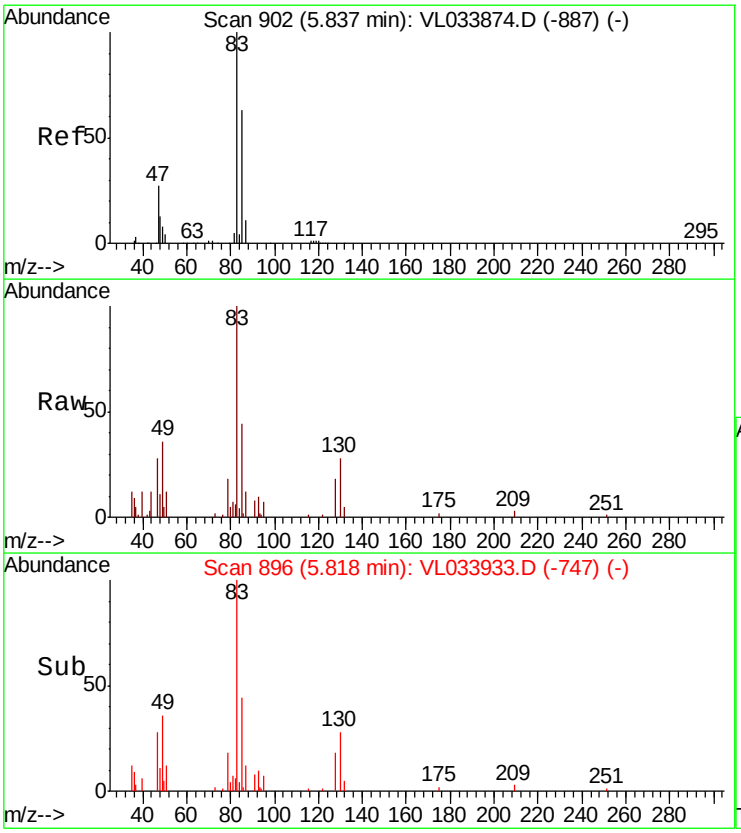
Tgt Ion: 73 Resp: 10073

Ion	Ratio	Lower	Upper
73	100		
57	23.4	17.2	25.8



Instrument :
MSVOA_L
ClientSampleId :
QC060619 CAN 10729

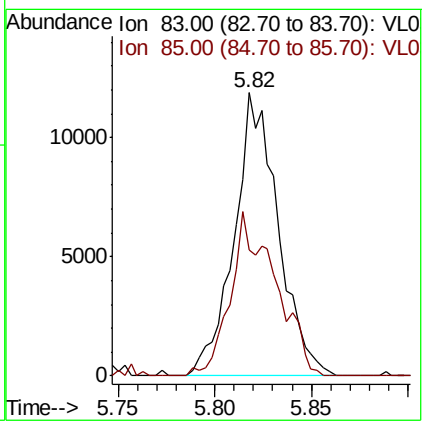
Manual Integrations APPROVED
MMDadoda
6/26/2019 8:15:32 AM

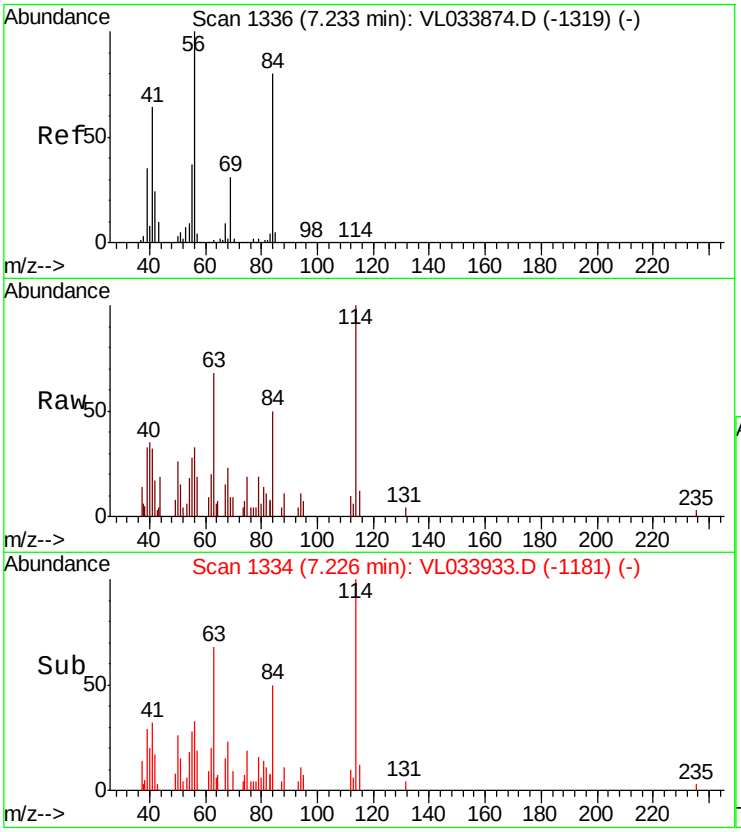


#29
Chloroform
Concen: 0.105 ppbv
RT: 5.82 min Scan# 896
Delta R.T. -0.02 min
Lab File: VL033933.D
Acq: 24 Jun 2019 12:36

Tgt Ion: 83 Resp: 18737

Ion	Ratio	Lower	Upper
83	100		
85	44.4	50.5	75.7#





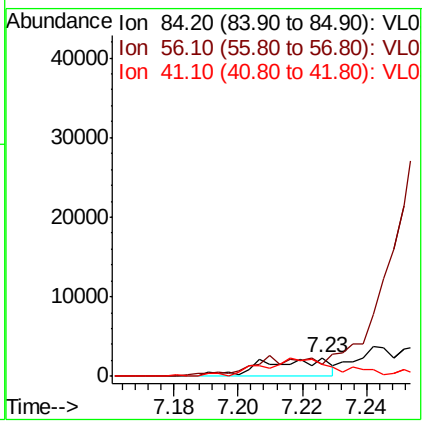
#30
Cyclohexane
Concen: 0.043 ppbv m
RT: 7.23 min Scan# 1334
Delta R.T. -0.01 min
Lab File: VL033933.D
Acq: 24 Jun 2019 12:36

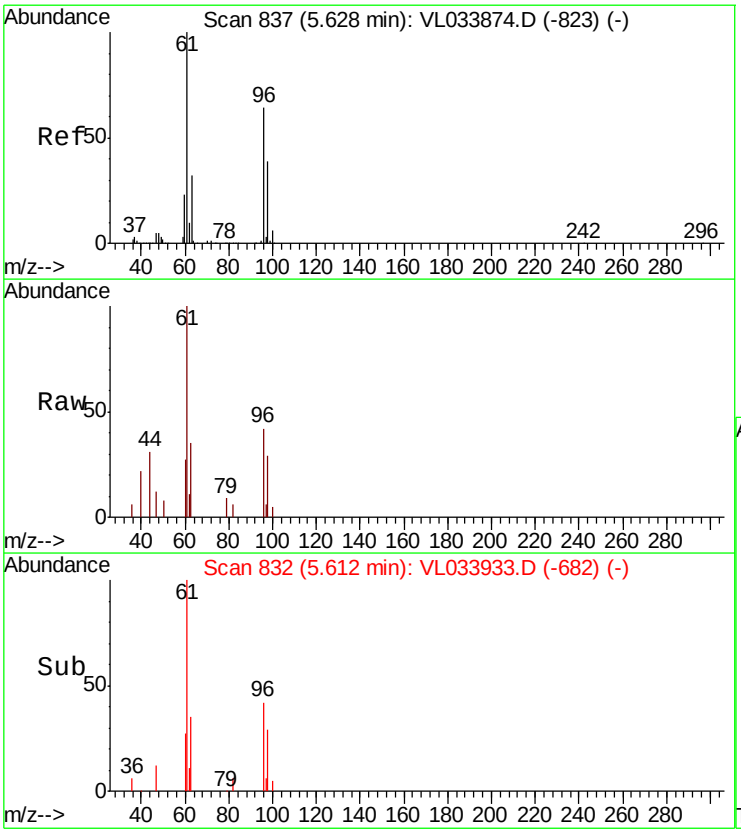
Tgt Ion: 84 Resp: 3135

Ion	Ratio	Lower	Upper
84	100		
56	0.0	105.8	158.8#
41	128.8	65.7	98.5#

Instrument :
MSVOA_L
ClientSampleId :
QC060619 CAN 10729

Manual Integrations APPROVED
MMDadoda
6/26/2019 8:15:32 AM

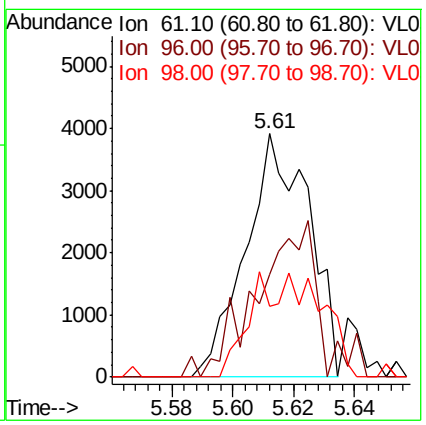


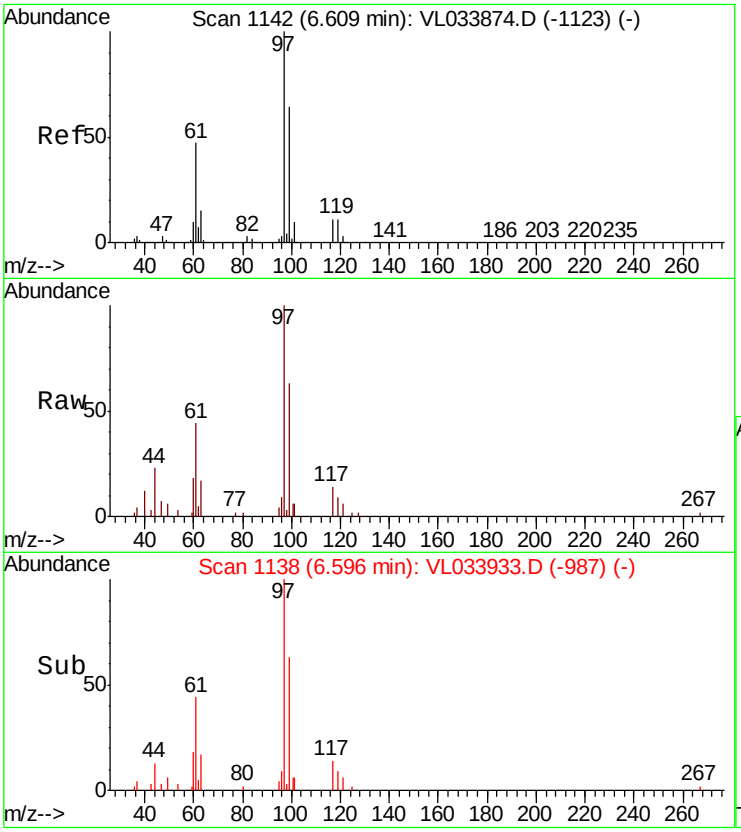


#31
cis-1,2-Dichloroethene
Concen: 0.062 ppbv m
RT: 5.61 min Scan# 832
Delta R.T. -0.02 min
Lab File: VL033933.D
Acq: 24 Jun 2019 12:36

Tgt Ion: 61 Resp: 5674

Ion	Ratio	Lower	Upper
61	100		
96	42.3	50.9	76.3#
98	29.2	31.4	47.2#

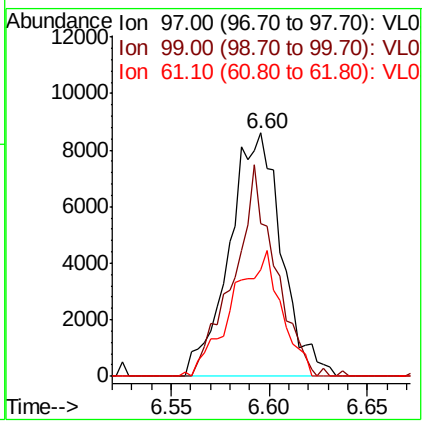




#32
1,1,1-Trichloroethane
Concen: 0.093 ppbv m
RT: 6.60 min Scan# 1138
Delta R.T. -0.01 min
Lab File: VL033933.D
Acq: 24 Jun 2019 12:36

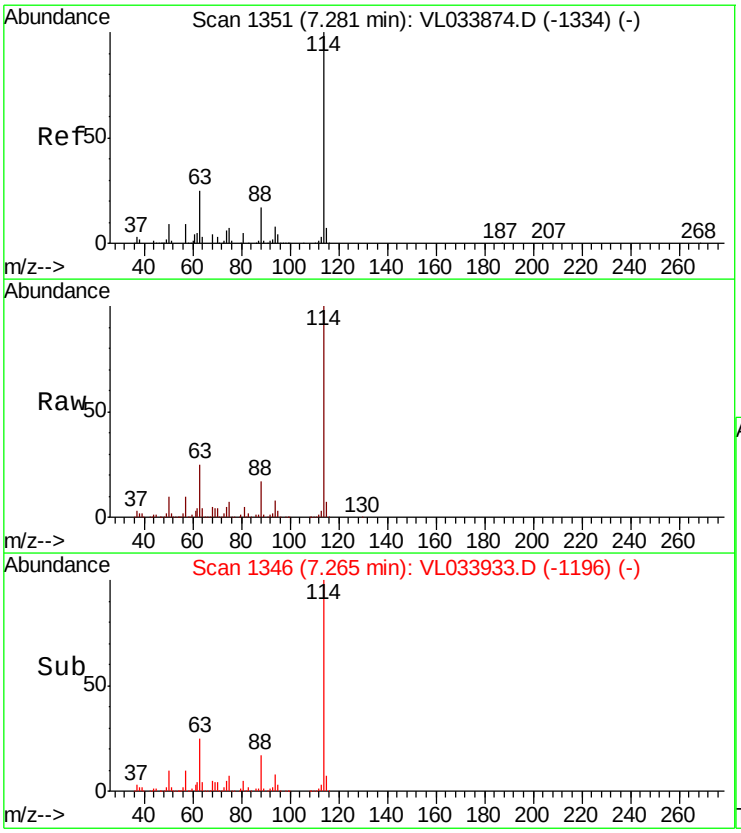
Tgt Ion: 97 Resp: 15957

Ion	Ratio	Lower	Upper
97	100		
99	68.3	51.7	77.5
61	48.5	37.7	56.5



Instrument :
MSVOA_L
ClientSampleId :
QC060619 CAN 10729

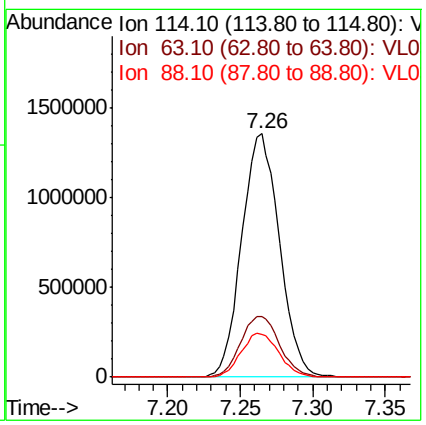
Manual Integrations APPROVED
MMDadoda
6/26/2019 8:15:32 AM

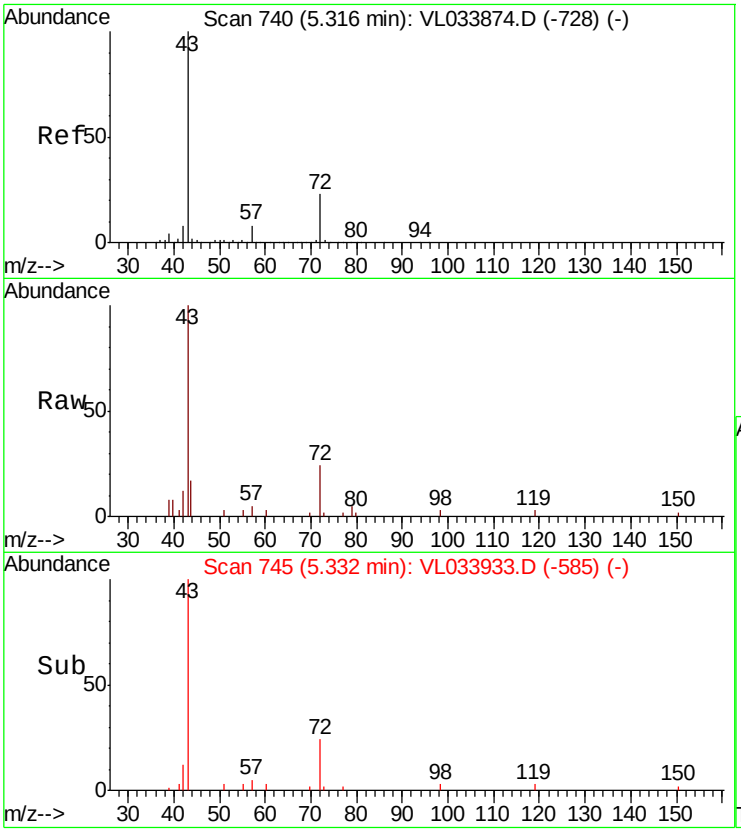


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.26 min Scan# 1346
Delta R.T. -0.02 min
Lab File: VL033933.D
Acq: 24 Jun 2019 12:36

Tgt Ion:114 Resp: 2456313

Ion	Ratio	Lower	Upper
114	100		
63	25.8	21.1	31.7
88	18.0	14.2	21.4

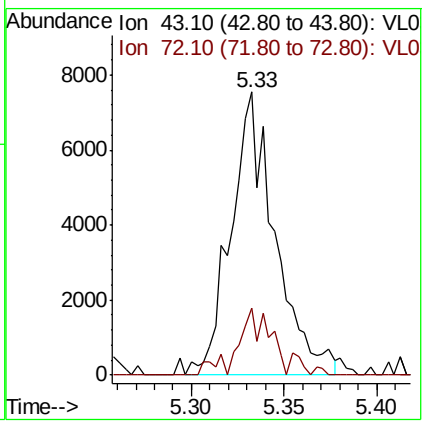




#34
2-Butanone
Concen: 0.090 ppbv m
RT: 5.33 min Scan# 745
Delta R.T. 0.02 min
Lab File: VL033933.D
Acq: 24 Jun 2019 12:36

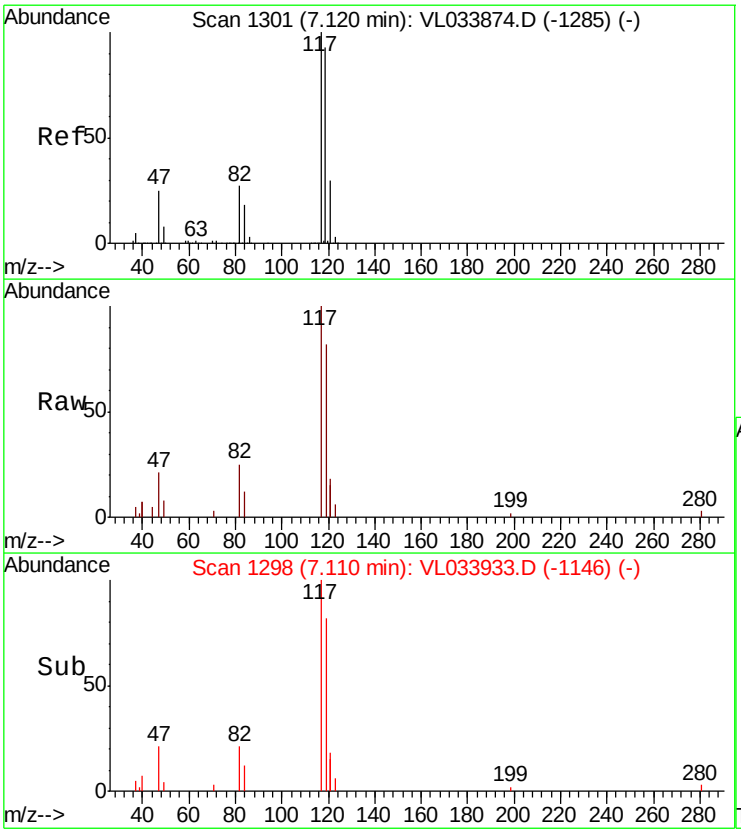
Tgt Ion: 43 Resp: 12517

Ion	Ratio	Lower	Upper
43	100		
72	20.0	17.9	26.9



Instrument :
MSVOA_L
ClientSampleId :
QC060619 CAN 10729

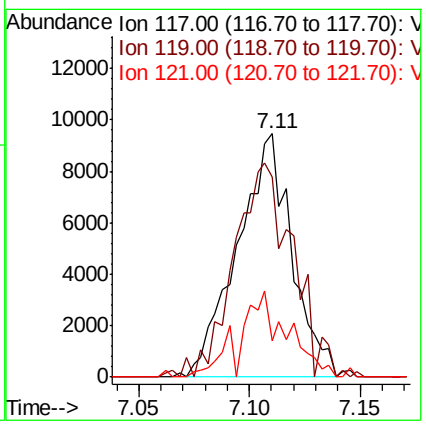
Manual Integrations APPROVED
MMDadoda
6/26/2019 8:15:32 AM

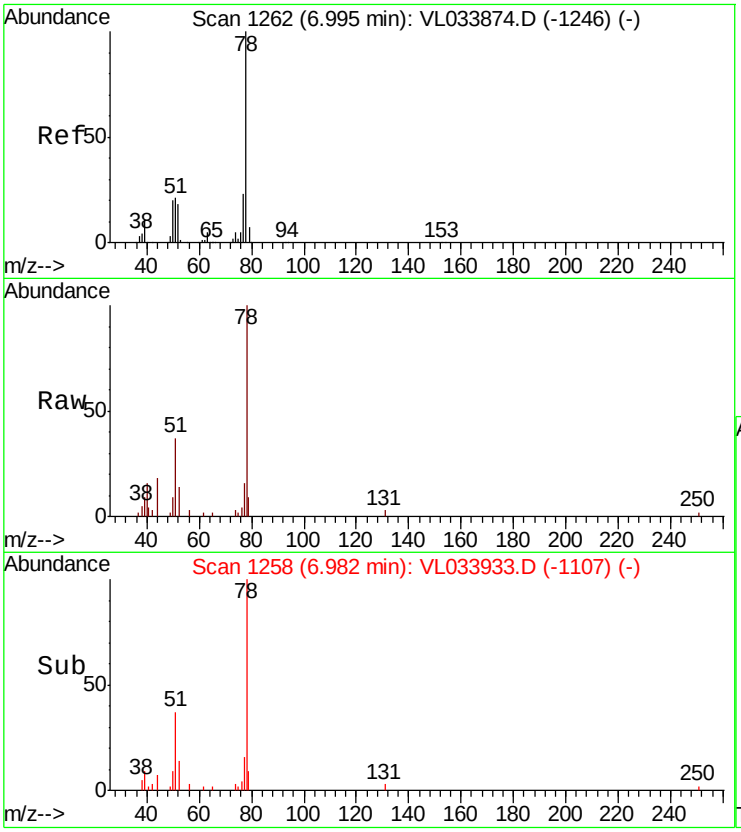


#35
Carbon Tetrachloride
Concen: 0.085 ppbv
RT: 7.11 min Scan# 1298
Delta R.T. -0.01 min
Lab File: VL033933.D
Acq: 24 Jun 2019 12:36

Tgt Ion:117 Resp: 16083

Ion	Ratio	Lower	Upper
117	100		
119	82.0	74.6	111.8
121	15.1	24.0	36.0#

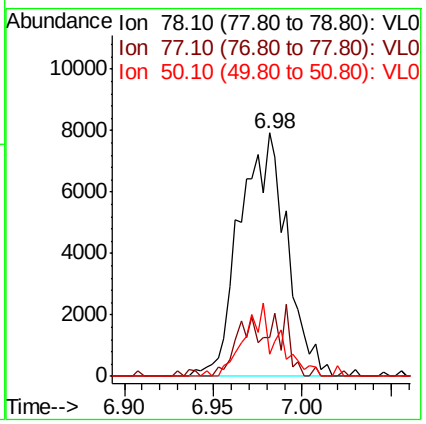




#36
Benzene
Concen: 0.078 ppbv m
RT: 6.98 min Scan# 1258
Delta R.T. -0.01 min
Lab File: VL033933.D
Acq: 24 Jun 2019 12:36

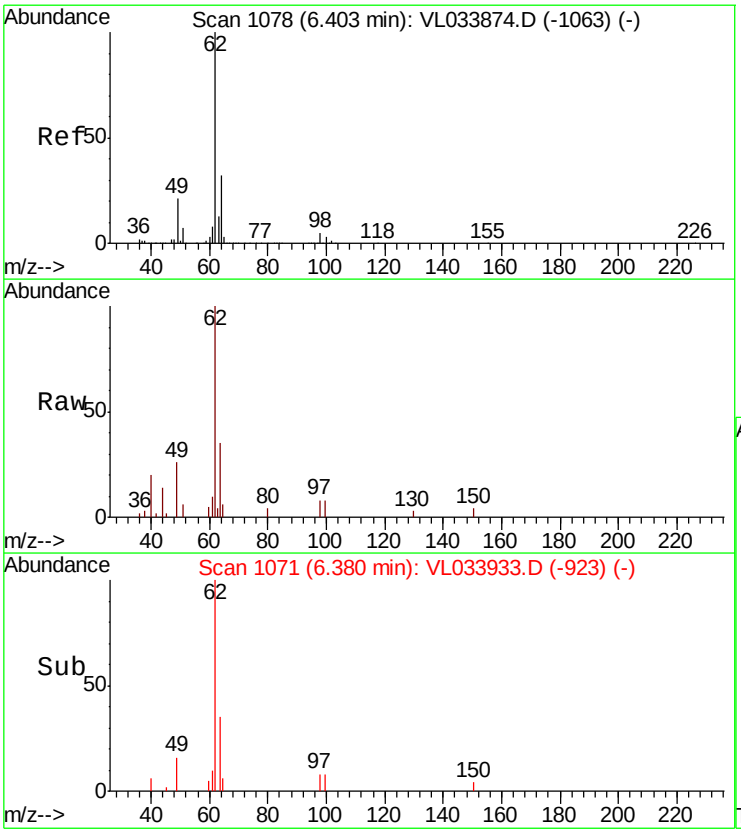
Tgt Ion: 78 Resp: 14604

Ion	Ratio	Lower	Upper
78	100		
77	15.7	18.2	27.2#
50	9.2	15.9	23.9#



Instrument :
MSVOA_L
ClientSampleId :
QC060619 CAN 10729

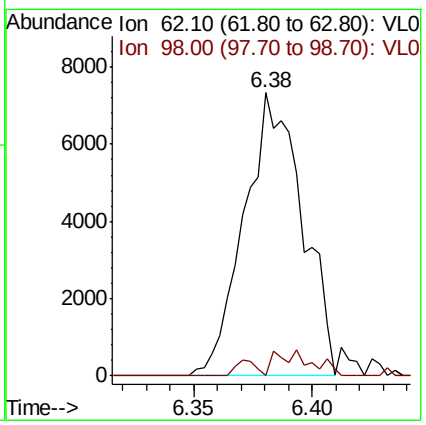
Manual Integrations APPROVED
MMDadoda
6/26/2019 8:15:32 AM

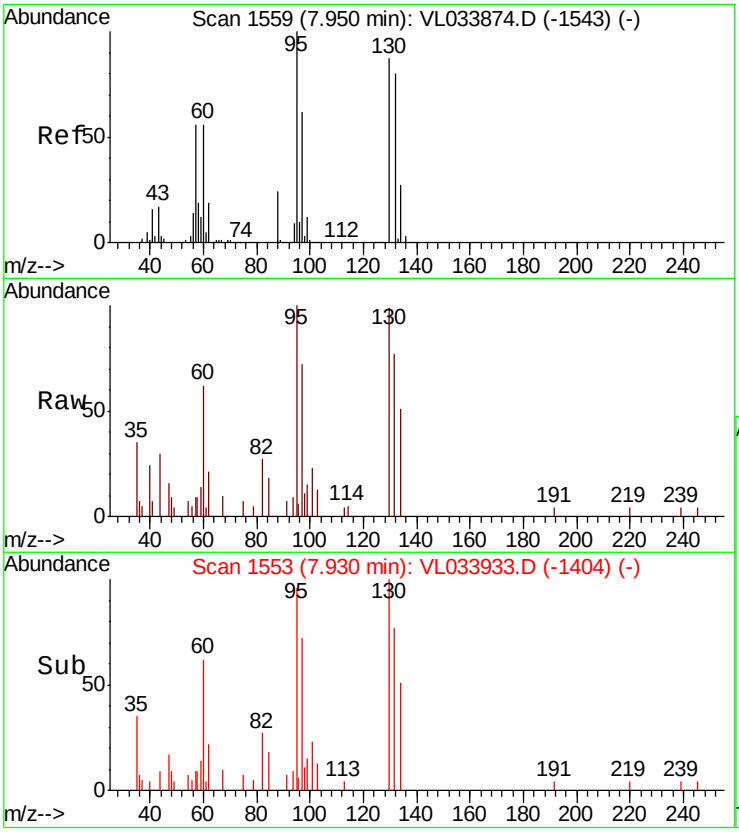


#37
1,2-Dichloroethane
Concen: 0.089 ppbv m
RT: 6.38 min Scan# 1071
Delta R.T. -0.02 min
Lab File: VL033933.D
Acq: 24 Jun 2019 12:36

Tgt Ion: 62 Resp: 12377

Ion	Ratio	Lower	Upper
62	100		
98	0.0	4.0	6.0#

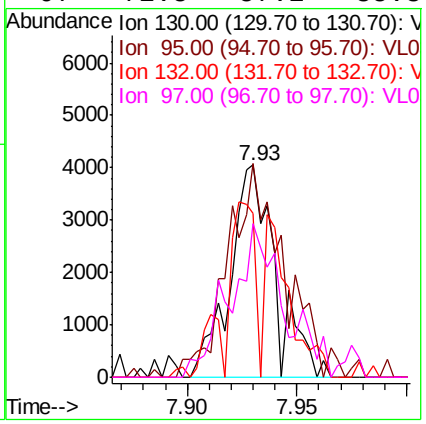




#38
Trichloroethene
Concen: 0.080 ppbv m
RT: 7.93 min Scan# 1553
Delta R.T. -0.02 min
Lab File: VL033933.D
Acq: 24 Jun 2019 12:36

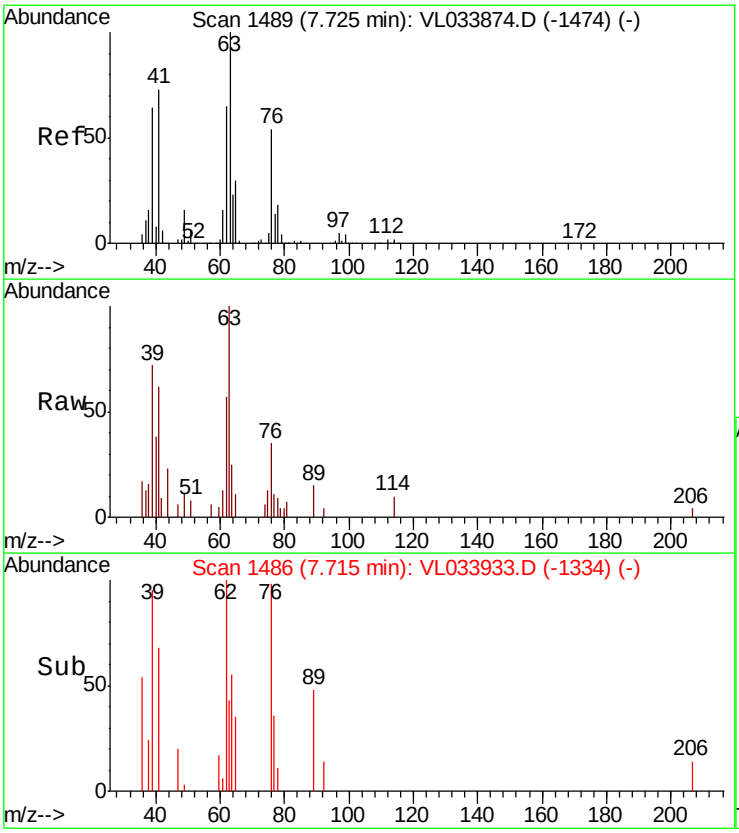
Tgt Ion:130 Resp: 5821

Ion	Ratio	Lower	Upper
130	100		
95	100.8	92.0	138.0
132	77.3	73.8	110.8
97	72.5	57.2	85.8



Instrument :
MSVOA_L
ClientSampleId :
QC060619 CAN 10729

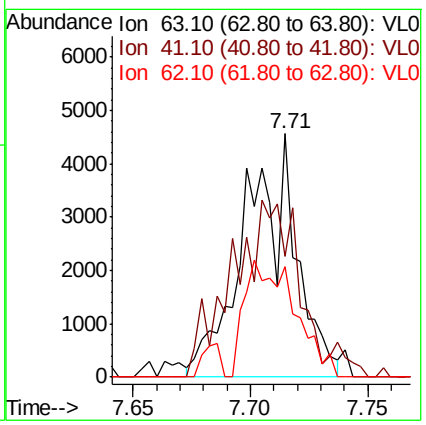
Manual Integrations APPROVED
MMDadoda
6/26/2019 8:15:32 AM

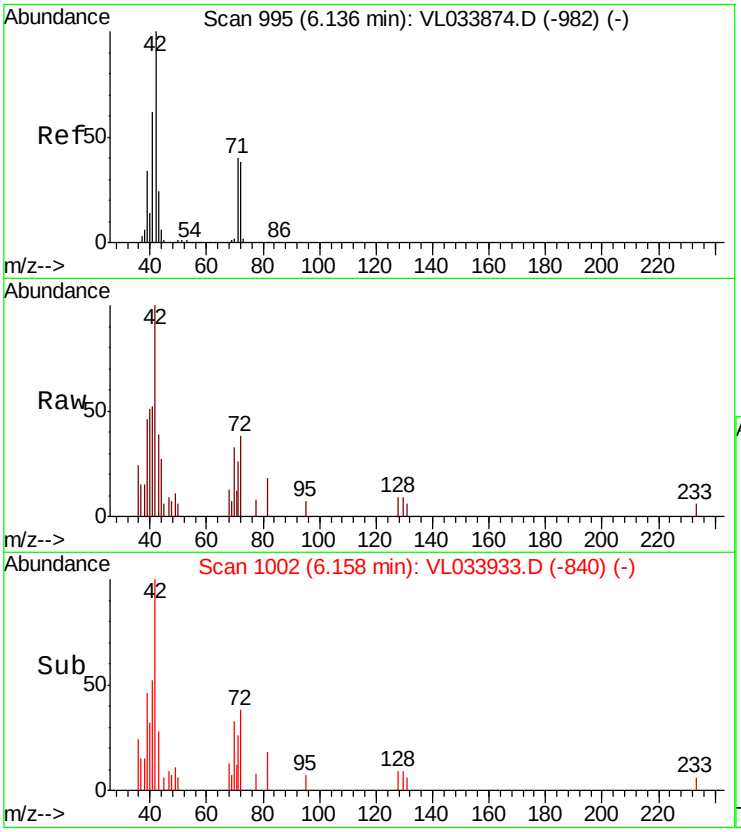


#39
1,2-Dichloropropane
Concen: 0.096 ppbv m
RT: 7.71 min Scan# 1486
Delta R.T. -0.01 min
Lab File: VL033933.D
Acq: 24 Jun 2019 12:36

Tgt Ion: 63 Resp: 6977

Ion	Ratio	Lower	Upper
63	100		
41	61.7	58.7	88.1
62	56.9	51.9	77.9

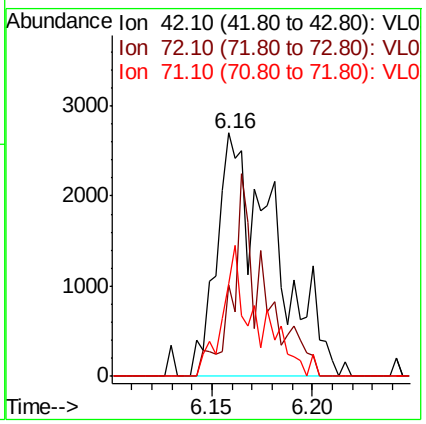




#41
Tetrahydrofuran
Concen: 0.076 ppbv m
RT: 6.16 min Scan# 1002
Delta R.T. 0.02 min
Lab File: VL033933.D
Acq: 24 Jun 2019 12:36

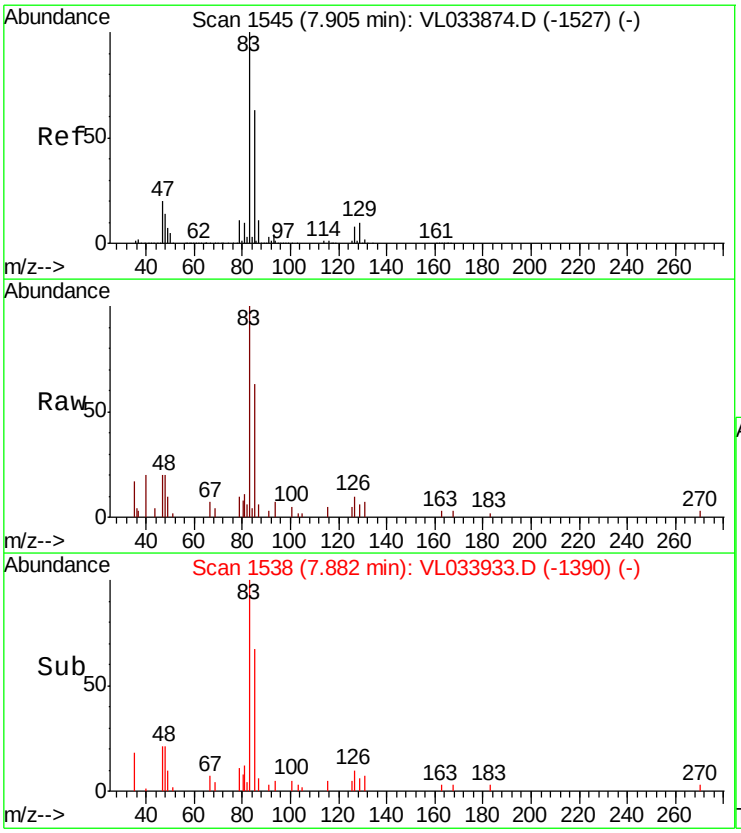
Tgt Ion: 42 Resp: 5351

Ion	Ratio	Lower	Upper
42	100		
72	45.2	32.2	48.4
71	32.1	31.7	47.5



Instrument :
MSVOA_L
ClientSampleId :
QC060619 CAN 10729

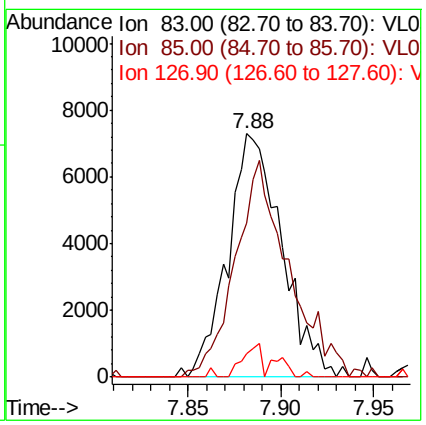
Manual Integrations APPROVED
MMDadoda
6/26/2019 8:15:32 AM

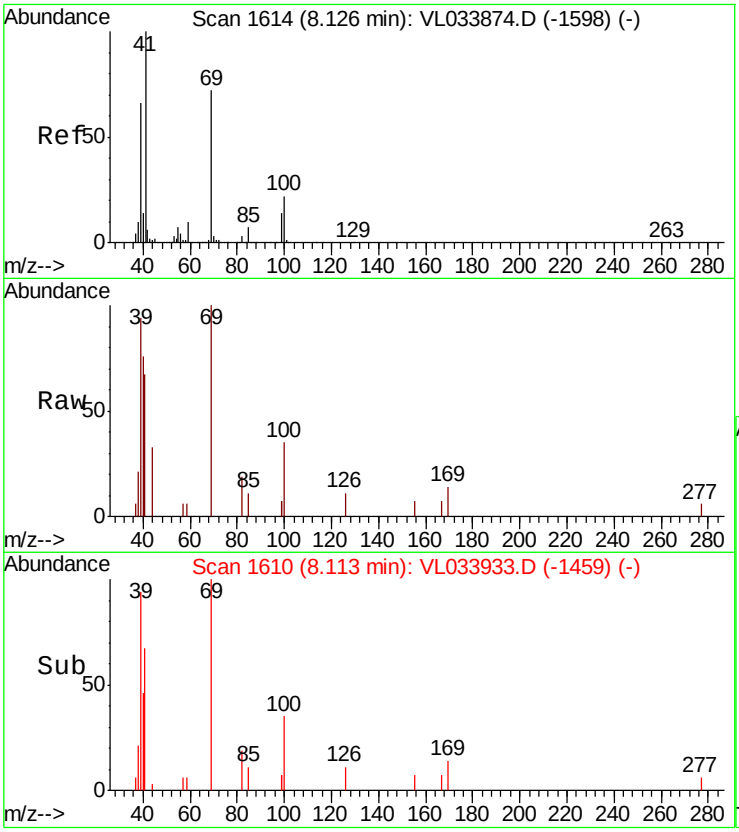


#42
Bromodichloromethane
Concen: 0.079 ppbv m
RT: 7.88 min Scan# 1538
Delta R.T. -0.02 min
Lab File: VL033933.D
Acq: 24 Jun 2019 12:36

Tgt Ion: 83 Resp: 14645

Ion	Ratio	Lower	Upper
83	100		
85	63.0	50.2	75.2
127	9.6	6.5	9.7

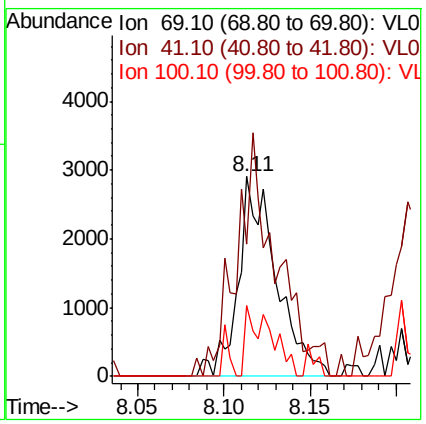




#43
Methyl Methacrylate
Concen: 0.063 ppbv m
RT: 8.11 min Scan# 1610
Delta R.T. -0.01 min
Lab File: VL033933.D
Acq: 24 Jun 2019 12:36

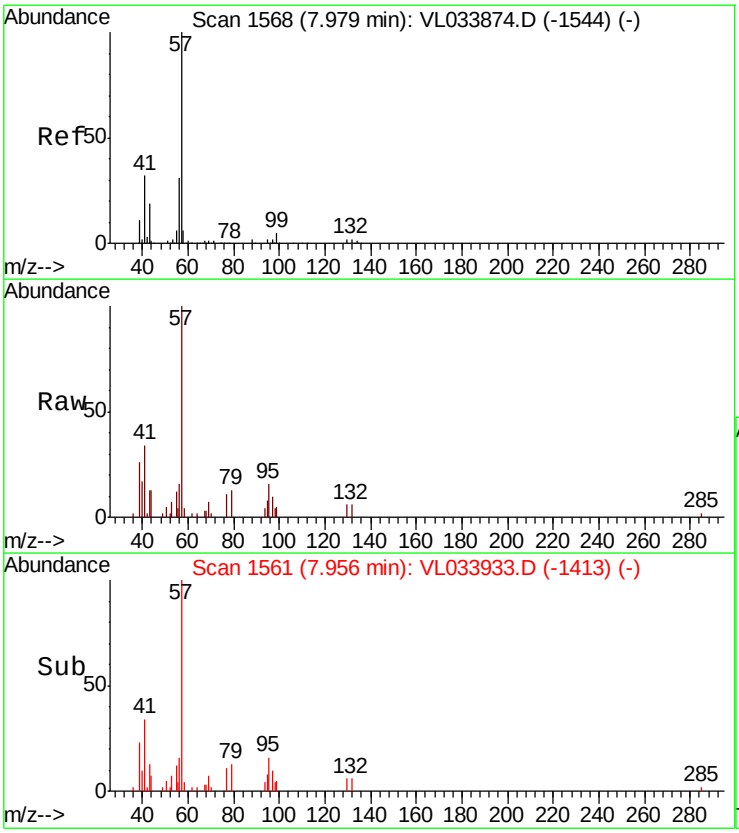
Tgt Ion: 69 Resp: 4436

Ion	Ratio	Lower	Upper
69	100		
41	128.9	114.3	171.5
100	0.0	24.8	37.2#



Instrument :
MSVOA_L
ClientSampleId :
QC060619 CAN 10729

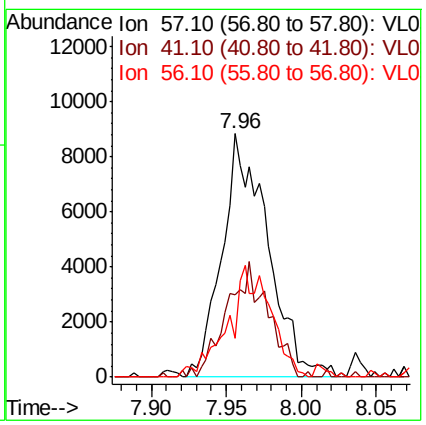
Manual Integrations APPROVED
MMDadoda
6/26/2019 8:15:32 AM

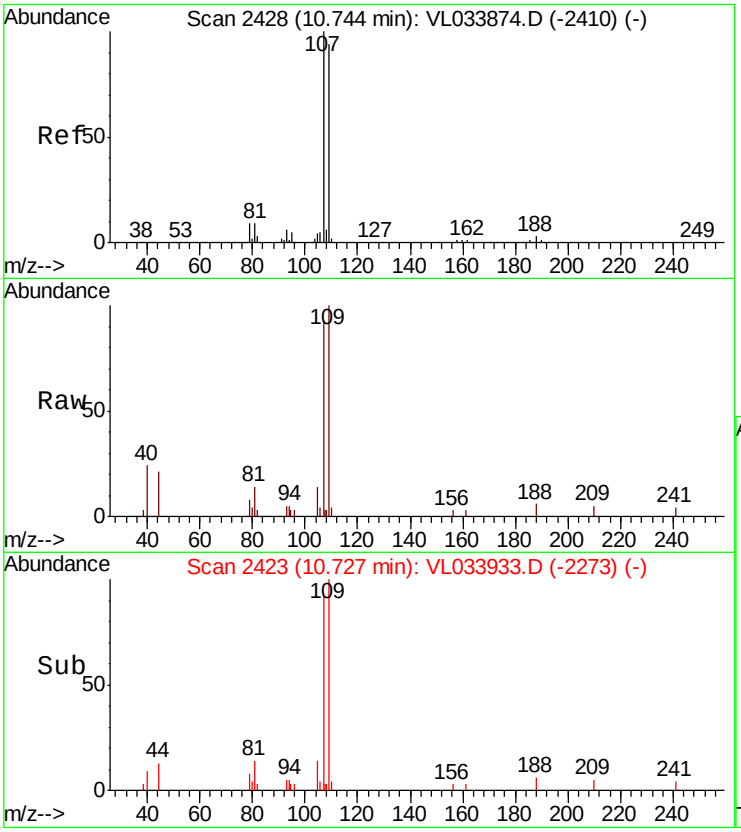


#44
2,2,4-Trimethylpentane
Concen: 0.056 ppbv m
RT: 7.96 min Scan# 1561
Delta R.T. -0.02 min
Lab File: VL033933.D
Acq: 24 Jun 2019 12:36

Tgt Ion: 57 Resp: 18662

Ion	Ratio	Lower	Upper
57	100		
41	43.2	26.1	39.1#
56	43.9	24.6	36.8#





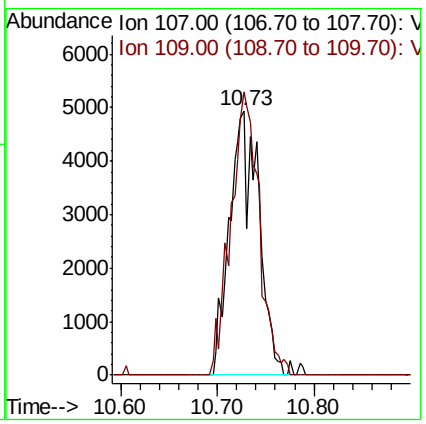
#54
1,2-Dibromoethane
Concen: 0.081 ppbv m
RT: 10.73 min Scan# 2423
Delta R.T. -0.02 min
Lab File: VL033933.D
Acq: 24 Jun 2019 12:36

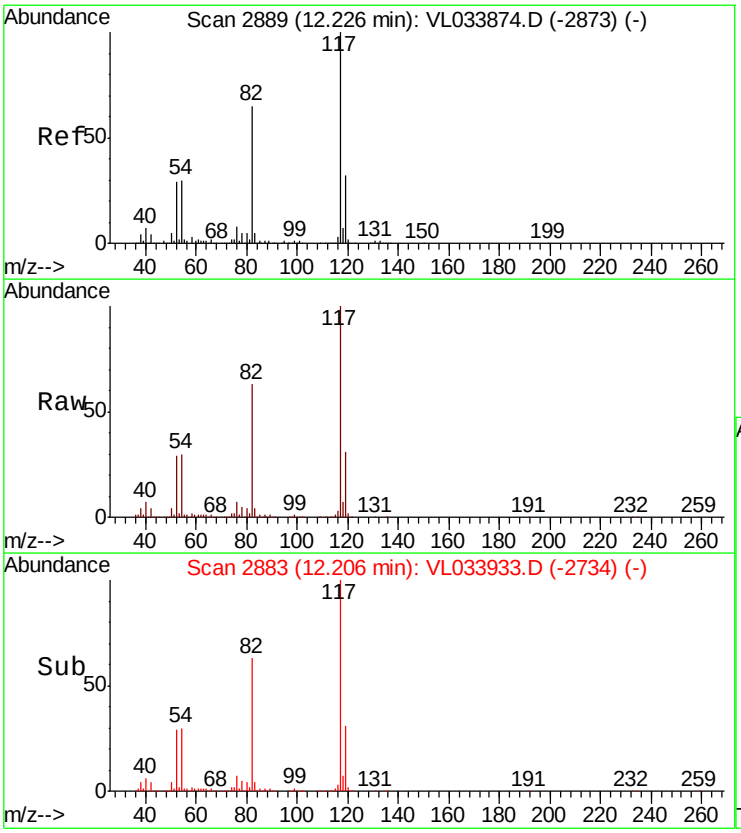
Tgt Ion:107 Resp: 10476

Ion	Ratio	Lower	Upper
107	100		
109	107.0	74.9	112.3

Instrument :
MSVOA_L
ClientSampleId :
QC060619 CAN 10729

Manual Integrations APPROVED
MMDadoda
6/26/2019 8:15:32 AM

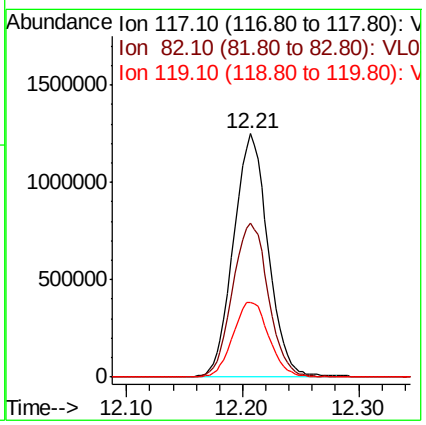


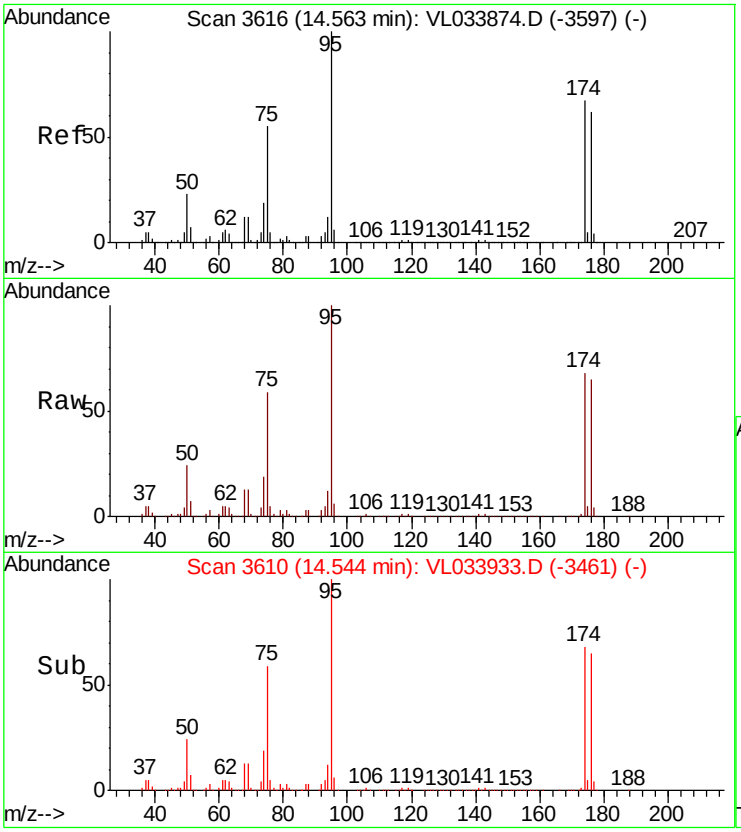


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.21 min Scan# 2883
Delta R.T. -0.02 min
Lab File: VL033933.D
Acq: 24 Jun 2019 12:36

Tgt Ion:117 Resp: 2588998

Ion	Ratio	Lower	Upper
117	100		
82	66.0	50.2	75.2
119	32.4	24.8	37.2

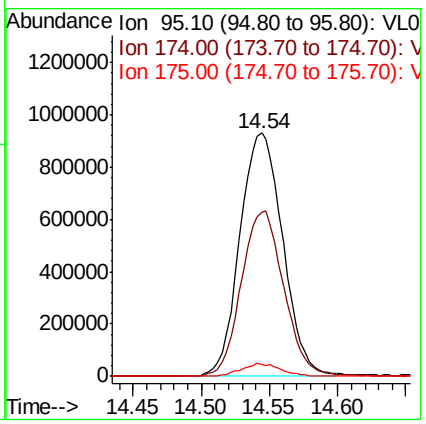




#68
1-Bromo-4-Fluorobenzene
Concen: 9.555 ppbv
RT: 14.54 min Scan# 3610
Delta R.T. -0.02 min
Lab File: VL033933.D
Acq: 24 Jun 2019 12:36

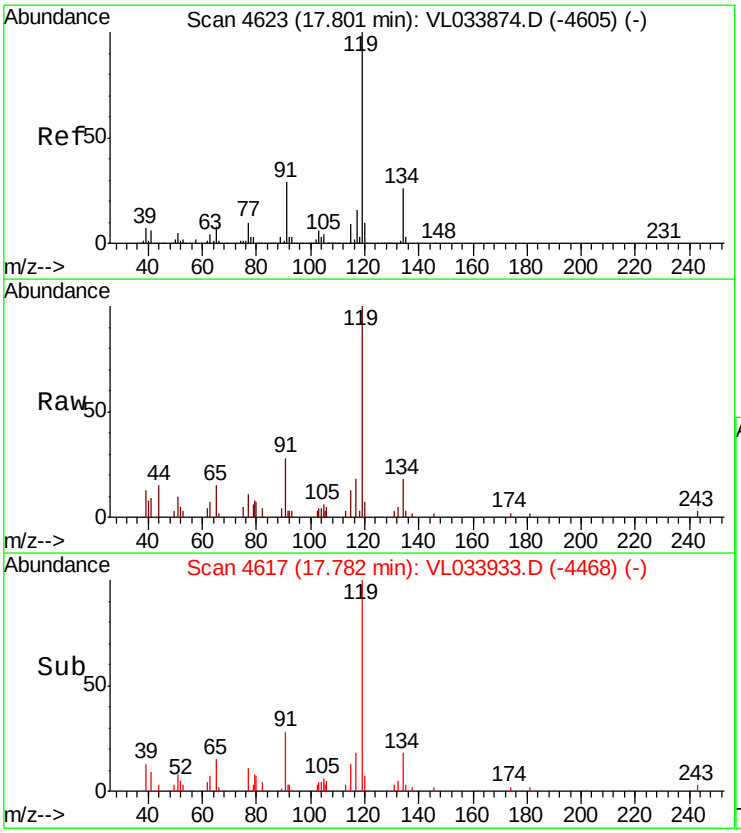
Tgt Ion: 95 Resp: 2031926

Ion	Ratio	Lower	Upper
95	100		
174	67.8	54.0	81.0
175	4.9	3.8	5.8



Instrument :
MSVOA_L
ClientSampleId :
QC060619 CAN 10729

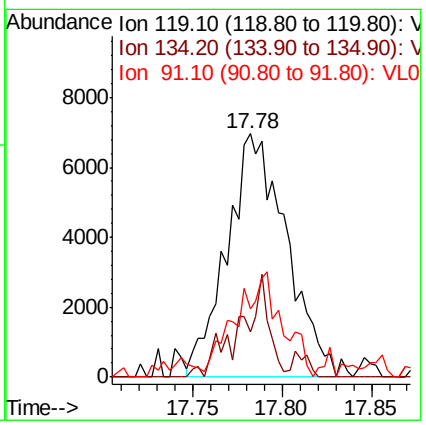
Manual Integrations APPROVED
MMDadoda
6/26/2019 8:15:32 AM

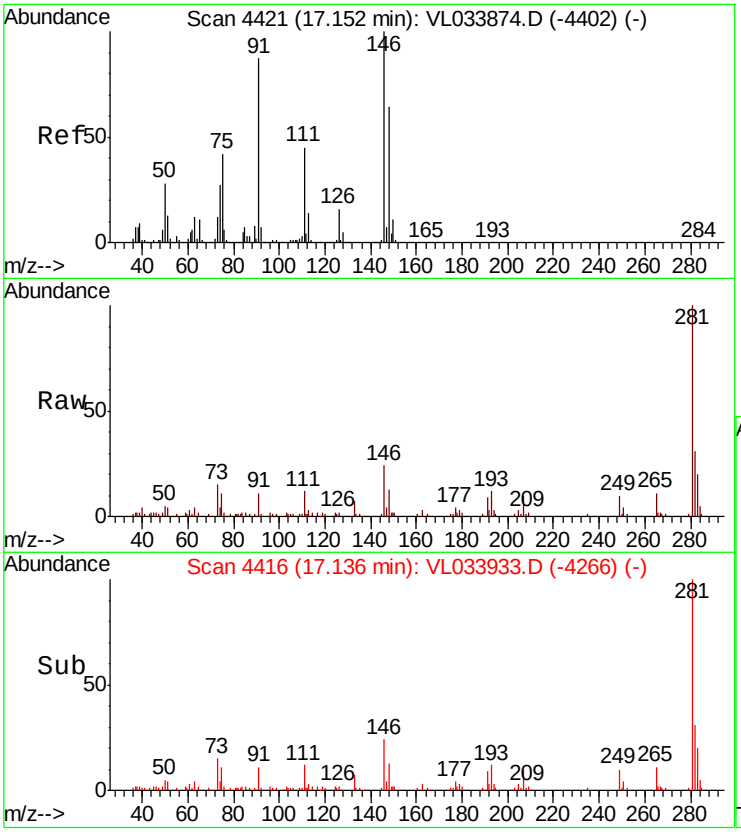


#69
p-Isopropyltoluene
Concen: 0.041 ppbv
RT: 17.78 min Scan# 4617
Delta R.T. -0.02 min
Lab File: VL033933.D
Acq: 24 Jun 2019 12:36

Tgt Ion:119 Resp: 16166

Ion	Ratio	Lower	Upper
119	100		
134	23.6	20.3	30.5
91	43.7	23.8	35.6#

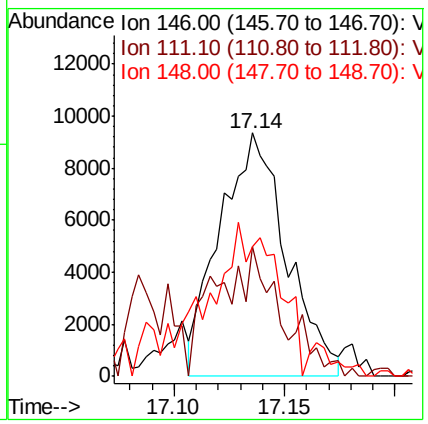




#75
1,3-Dichlorobenzene
Concen: 0.089 ppbv
RT: 17.14 min Scan# 4416
Delta R.T. -0.02 min
Lab File: VL033933.D
Acq: 24 Jun 2019 12:36

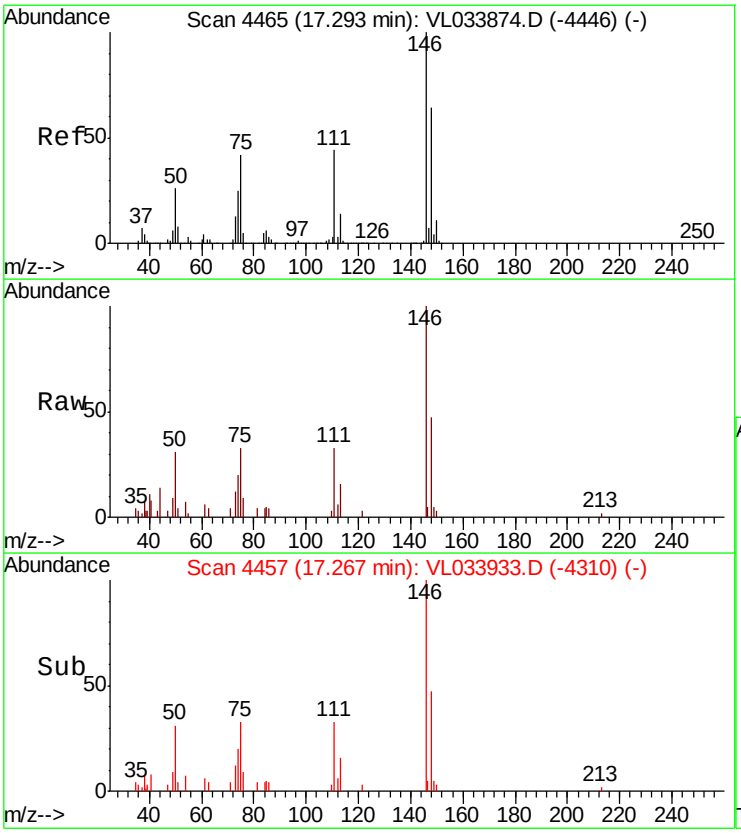
Tgt Ion:146 Resp: 19648

Ion	Ratio	Lower	Upper
146	100		
111	53.2	22.8	68.3
148	81.4	32.2	96.6



Instrument :
MSVOA_L
ClientSampleId :
QC060619 CAN 10729

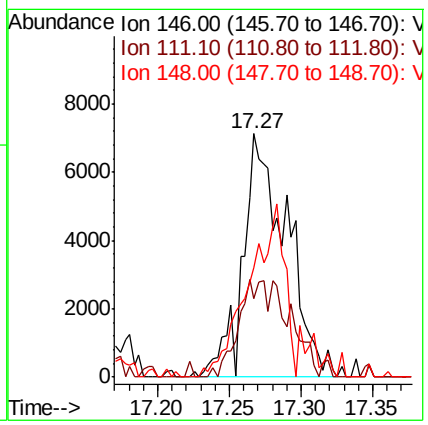
Manual Integrations APPROVED
MMDadoda
6/26/2019 8:15:32 AM

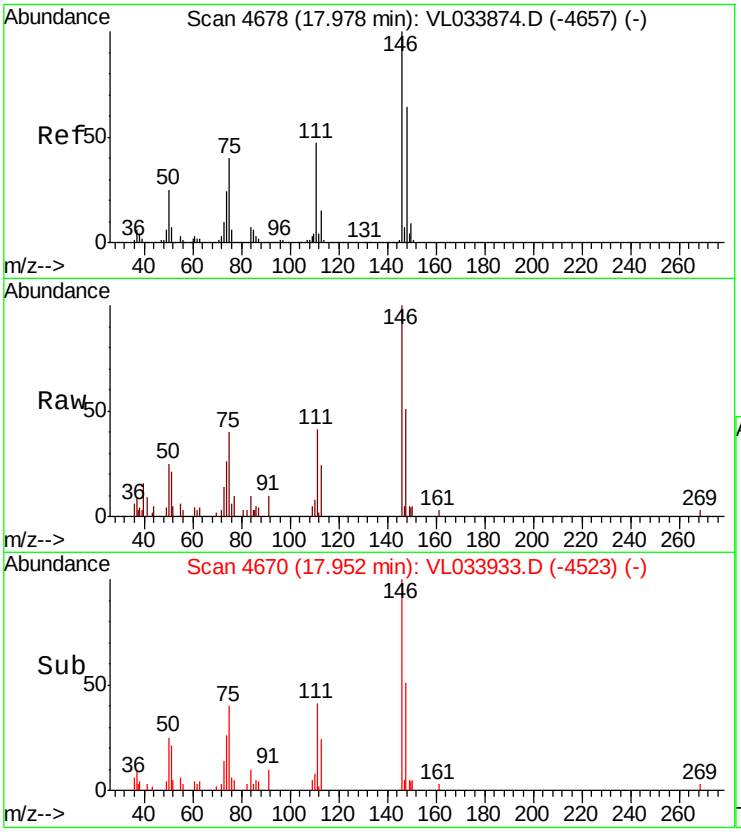


#76
1,4-Dichlorobenzene
Concen: 0.075 ppbv m
RT: 17.27 min Scan# 4457
Delta R.T. -0.03 min
Lab File: VL033933.D
Acq: 24 Jun 2019 12:36

Tgt Ion:146 Resp: 15251

Ion	Ratio	Lower	Upper
146	100		
111	46.9	22.1	66.5
148	0.0	32.4	97.0#

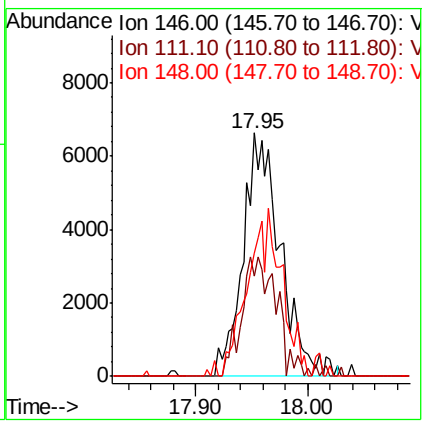




#77
1,2-Dichlorobenzene
Concen: 0.075 ppbv m
RT: 17.95 min Scan# 4670
Delta R.T. -0.03 min
Lab File: VL033933.D
Acq: 24 Jun 2019 12:36

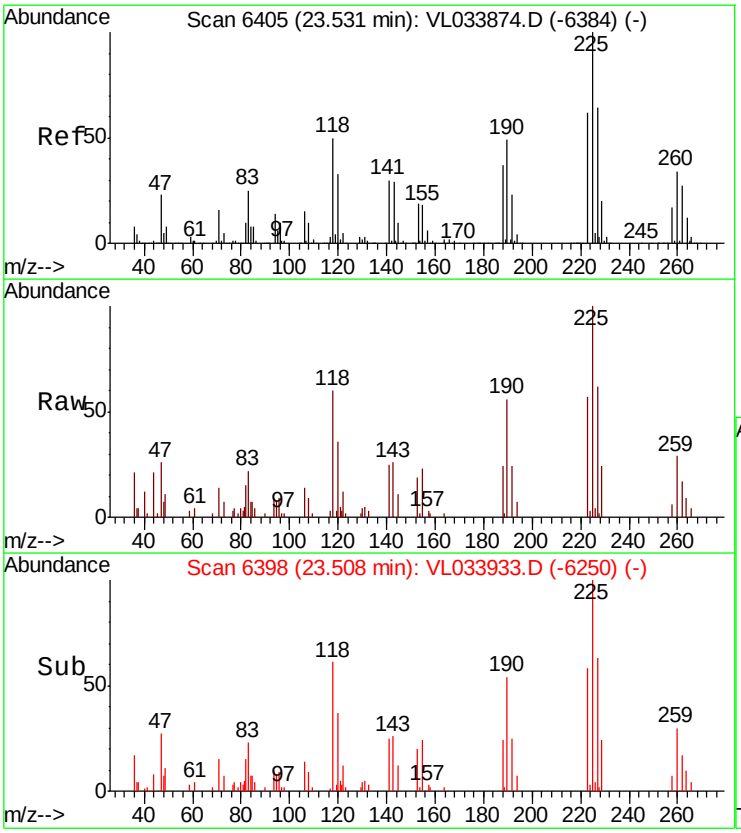
Tgt Ion:146 Resp: 15347

Ion	Ratio	Lower	Upper
146	100		
111	46.2	23.4	70.0
148	0.0	31.8	95.4#



Instrument :
MSVOA_L
ClientSampleId :
QC060619 CAN 10729

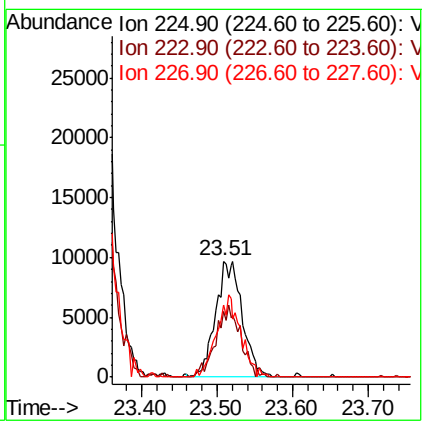
Manual Integrations APPROVED
MMDadoda
6/26/2019 8:15:32 AM

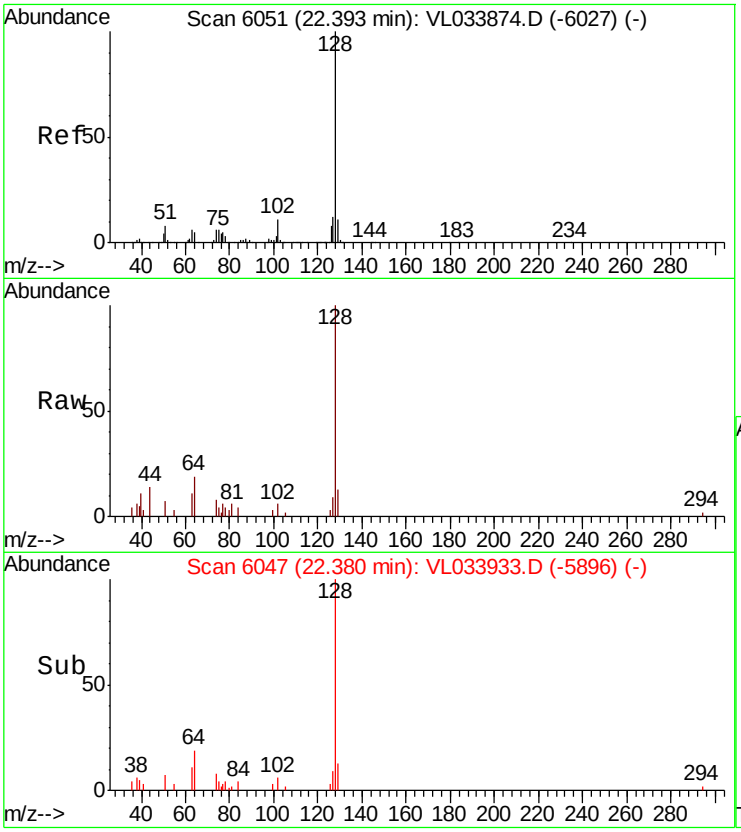


#78
Hexachloro-1,3-Butadiene
Concen: 0.149 ppbv m
RT: 23.51 min Scan# 6398
Delta R.T. -0.02 min
Lab File: VL033933.D
Acq: 24 Jun 2019 12:36

Tgt Ion:225 Resp: 23777

Ion	Ratio	Lower	Upper
225	100		
223	260.4	50.8	76.2#
227	262.6	51.8	77.6#

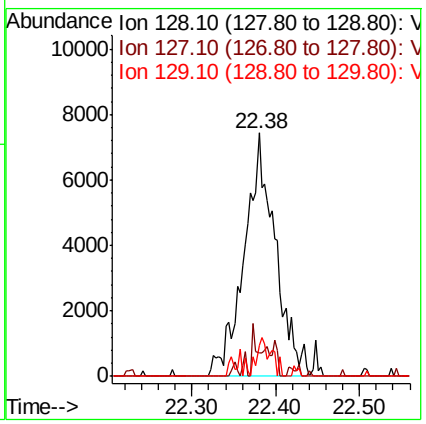




#79
Naphthalene
Concen: 0.069 ppbv m
RT: 22.38 min Scan# 6047
Delta R.T. -0.01 min
Lab File: VL033933.D
Acq: 24 Jun 2019 12:36

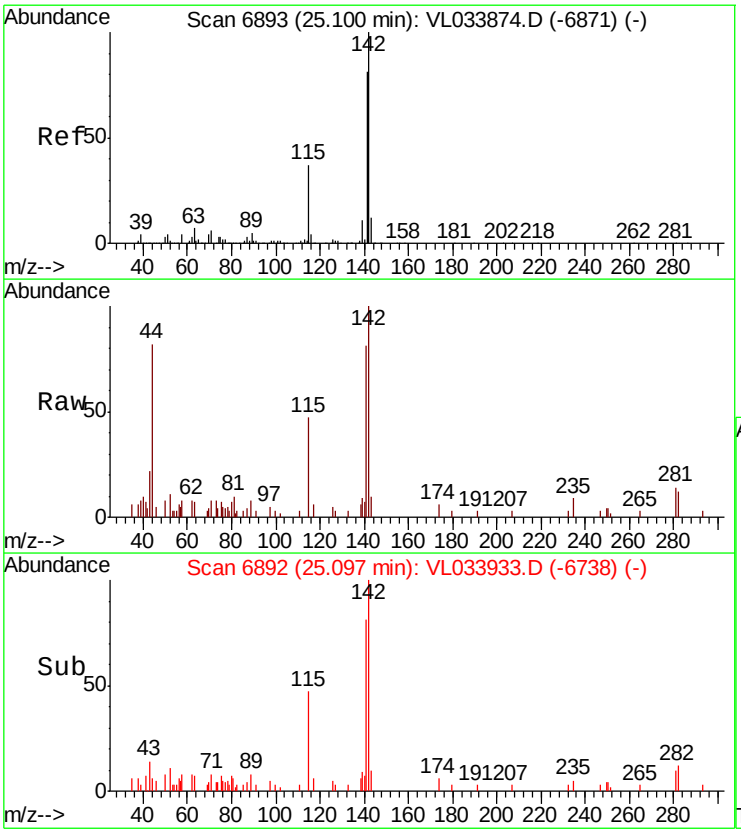
Tgt Ion:128 Resp: 19418

Ion	Ratio	Lower	Upper
128	100		
127	9.5	9.7	14.5#
129	12.7	8.6	12.8



Instrument :
MSVOA_L
ClientSampleId :
QC060619 CAN 10729

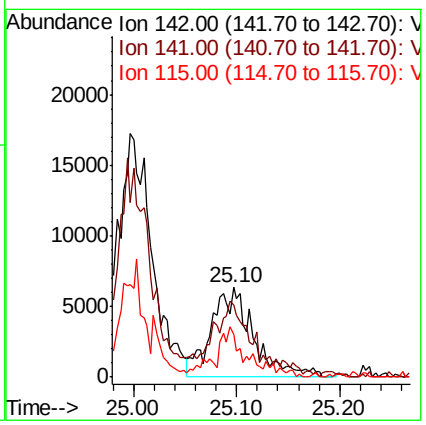
Manual Integrations APPROVED
MMDadoda
6/26/2019 8:15:32 AM

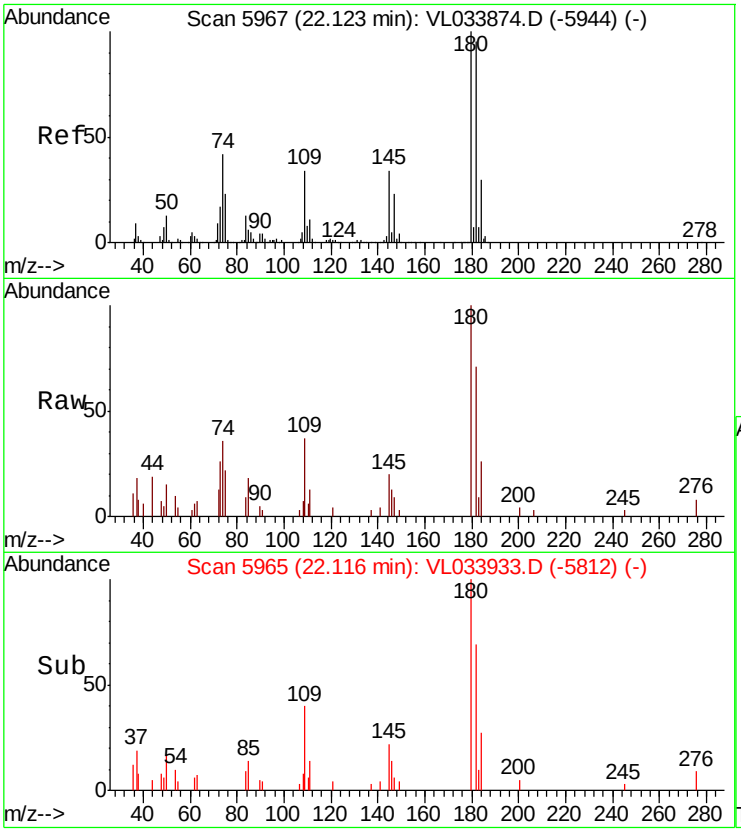


#80
Naphthalene,2-methyl-
Concen: 0.159 ppbv
RT: 25.10 min Scan# 6892
Delta R.T. -0.00 min
Lab File: VL033933.D
Acq: 24 Jun 2019 12:36

Tgt Ion:142 Resp: 17960

Ion	Ratio	Lower	Upper
142	100		
141	84.9	65.7	98.5
115	42.7	28.9	43.3





#81
1,2,4-Trichlorobenzene
Concen: 0.078 ppbv m
RT: 22.12 min Scan# 5965
Delta R.T. -0.01 min
Lab File: VL033933.D
Acq: 24 Jun 2019 12:36

Tgt Ion:180 Resp: 13897

Ion	Ratio	Lower	Upper
180	100		
182	0.0	76.9	115.3#
184	0.0	24.5	36.7#

Instrument :
MSVOA_L
ClientSampleId :
QC060619 CAN 10729

Manual Integrations APPROVED
MMDadoda
6/26/2019 8:15:32 AM