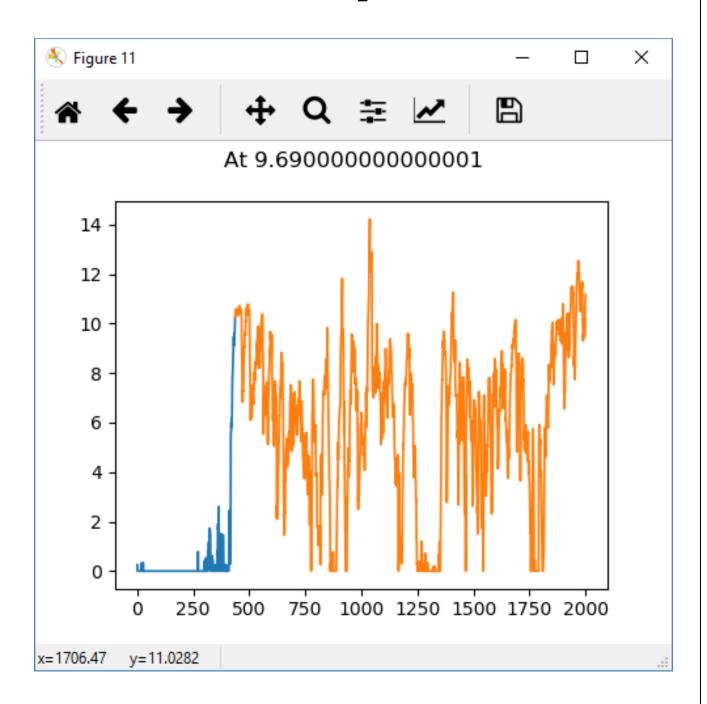
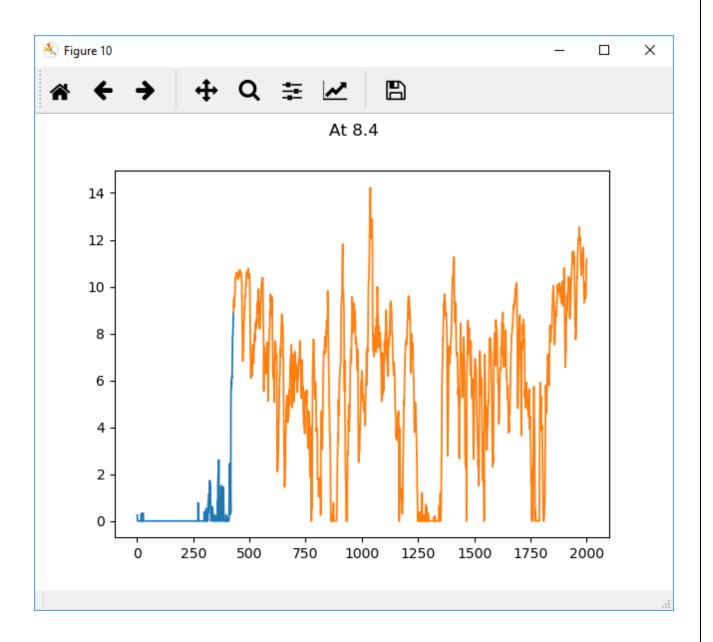
With 0 speed



Anchors at 9.69000000000001 : [0. 436. 1999.]

No. of Anchors at 9.690000000000001 : 3

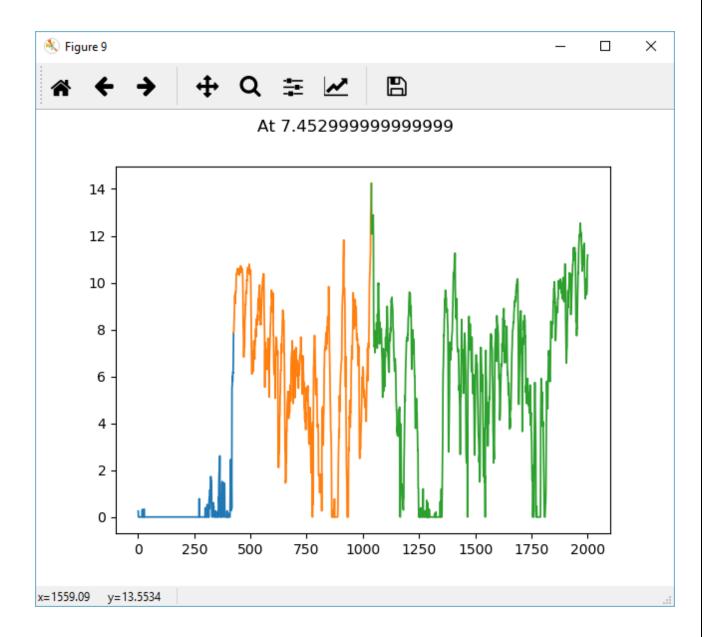
Time for 9.69000000000001 : 0.2798802852630615

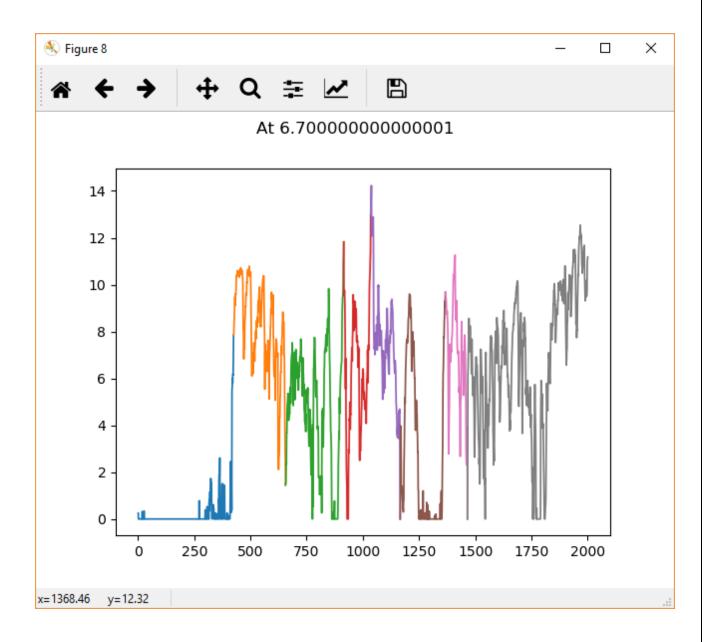


Anchors at 8.4 : [0. 428. 1999.]

No. of Anchors at 8.4:3

Time for 8.4: 0.3083760738372803

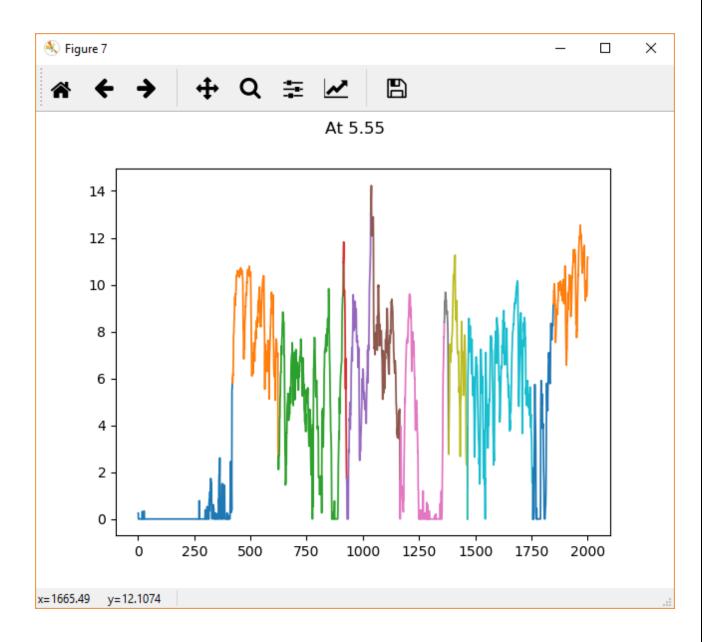




Anchors at 6.70000000000000 : [0. 424. 655. 914. 1034. 1165. 1366. 1464. 1999.]

No. of Anchors at 6.700000000000001 : 9

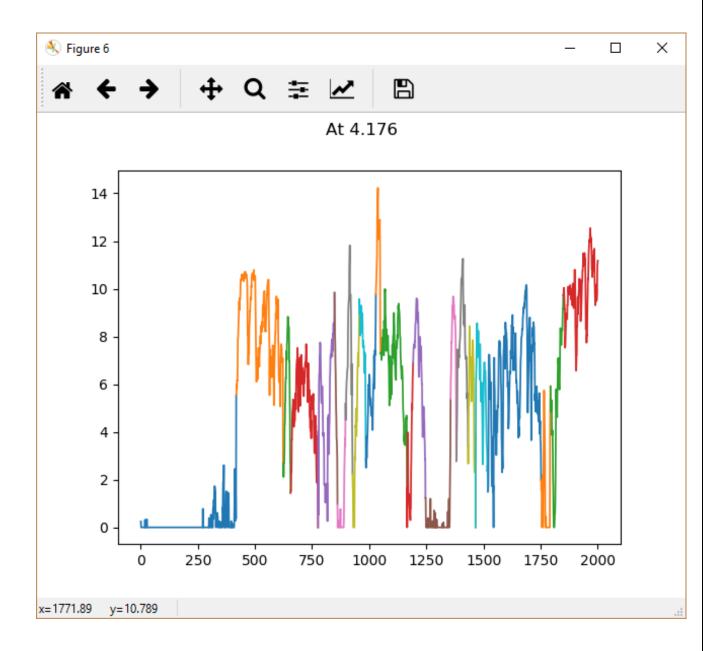
Time for 6.70000000000001 : 0.37627744674682617



Anchors at 5.55 : [0. 419. 622. 912. 927. 1034. 1164. 1361. 1380. 1464. 1755. 1846. 1999.]

No. of Anchors at 5.55: 13

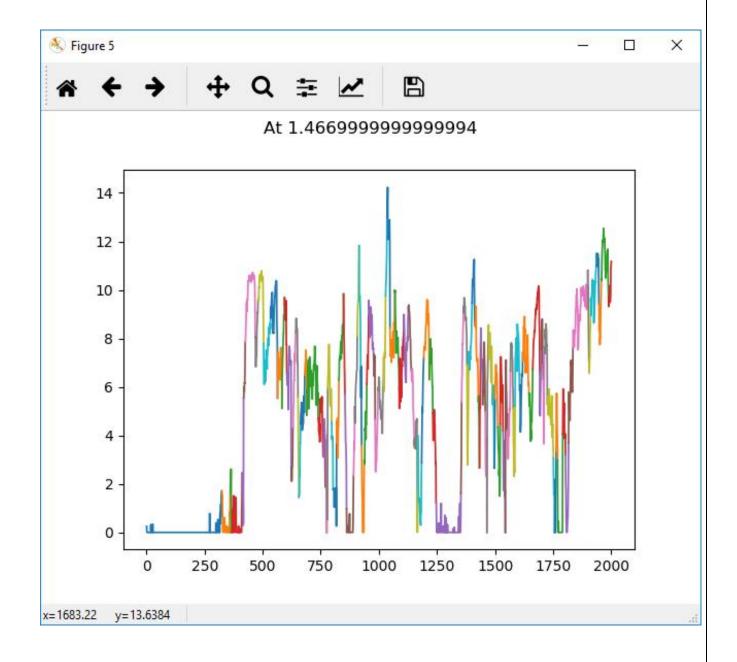
Time for 5.55: 0.34000444412231445



Anchors at 4.176 : [0. 417. 622. 655. 775. 847. 860. 895. 926. 955. 984. 1028. 1049. 1164. 1191. 1245. 1355. 1380. 1431. 1464. 1518. 1751. 1792. 1848. 1999.]

No. of Anchors at 4.176: 25

Time for 4.176: 0.47199010848999023



Code

```
start = time.time()
for i in
    np.percentile(data,[10,20,30,40,50,60,70,80,90]):
    s1 = time.time()
    s = SlidingWindowSegmentation(file, data, i)
   print("Anchors at ",i," : ",s.get anchor())
    s2 = time.time()
   print("No. of Anchors at ",i," : ",
                           s.get anchor length())
   print("\nTime for ",i," : ",s2-s1,"\n")
print("\nTotal Time : ",time.time()-start)
                       Output
Anchors at 0.0 : [0.000e+00 0.000e+00 1.000e+00 ...
1.997e+03 1.998e+03 1.999e+03]
No. of Anchors at 0.0 : 2001
Time for 0.0 : 19.59736394882202
Anchors at 0.0 : [0.000e+00 0.000e+00 1.000e+00 ...
1.997e+03 1.998e+03 1.999e+03]
No. of Anchors at 0.0 : 2001
Time for 0.0 : 19.224189043045044
360. 364.
411. 417. 424. 467. 479. 503. 533. 563.
  582. 593. 603. 622. 629. 641. 651. 655. 662.
                                                  680.
    738.
689.
 759. 769. 775. 777. 779. 796. 802. 817. 827.
                                                  847.
853. 860.
 890. 895.
           906. 914. 921. 925. 936. 947. 955.
                                                  978.
983.
    995.
 1020. 1028. 1034. 1047. 1067. 1086. 1106. 1126. 1138. 1151.
1164. 1167.
1183. 1192. 1216. 1231. 1245. 1352. 1355. 1363. 1378. 1385.
1400. 1412.
 1427. 1432. 1437. 1446. 1457. 1464. 1470. 1487. 1495. 1499.
1511. 1521.
 1533. 1543. 1551. 1565. 1577. 1585. 1605. 1618. 1645. 1661.
1691. 1697.
 1706. 1711. 1724. 1750. 1755. 1762. 1768. 1790. 1802. 1815.
1834. 1898.
 1903. 1910. 1936. 1946. 1956. 1987. 1999.]
```

Anchors at 4.176 : [0. 417. 622. 655. 775. 847. 860. 895. 926. 955. 984. 1028. 1049. 1164. 1191. 1245. 1355. 1380. 1431. 1464. 1518. 1751. 1792. 1848. 1999.]

No. of Anchors at 4.176: 25 Time for 4.176: 0.47199010848999023

Anchors at 5.55 : [0. 419. 622. 912. 927. 1034. 1164. 1361. 1380. 1464. 1755. 1846. 1999.]

No. of Anchors at 5.55 : 13

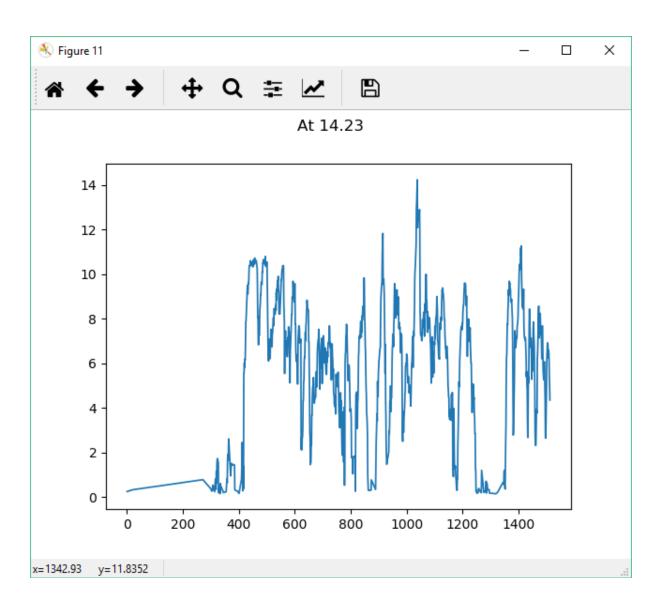
Time for 5.55 : 0.34000444412231445

Anchors at 8.4 : [0. 428. 1999.] No. of Anchors at 8.4 : 3 Time for 8.4 : 0.3083760738372803

Anchors at 9.6900000000001 : [0. 436.1999.] No. of Anchors at 9.6900000000001 : 3 Time for 9.6900000000001 : 0.2798802852630615

Total Time: 42.19570064544678

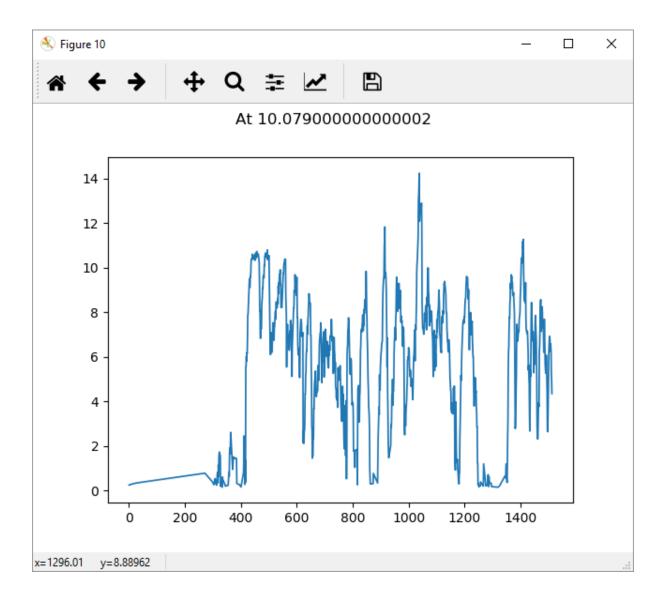
Without 0 speed



Anchors at 14.23 : [0. 1511.]

No. of Anchors at 14.23 : 2

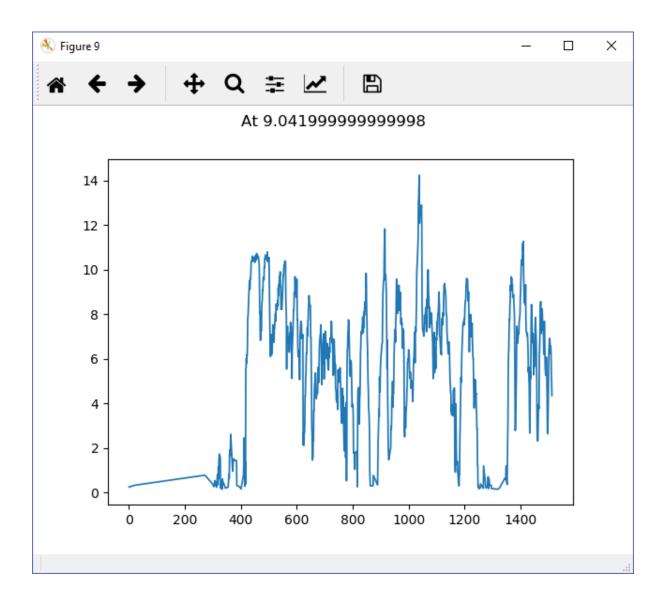
Time for 14.23 : 0.2343747615814209

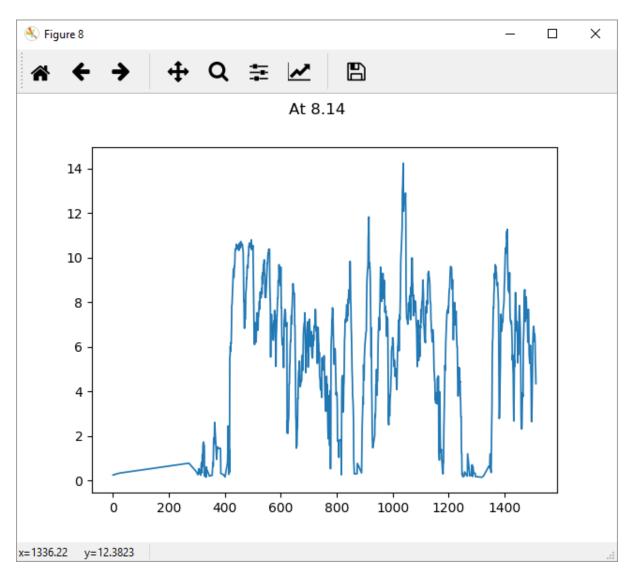


Anchors at 10.07900000000000 : [0. 1511.]

No. of Anchors at 10.079000000000002 : 2

Time for 10.07900000000000 : 0.2343730926513672

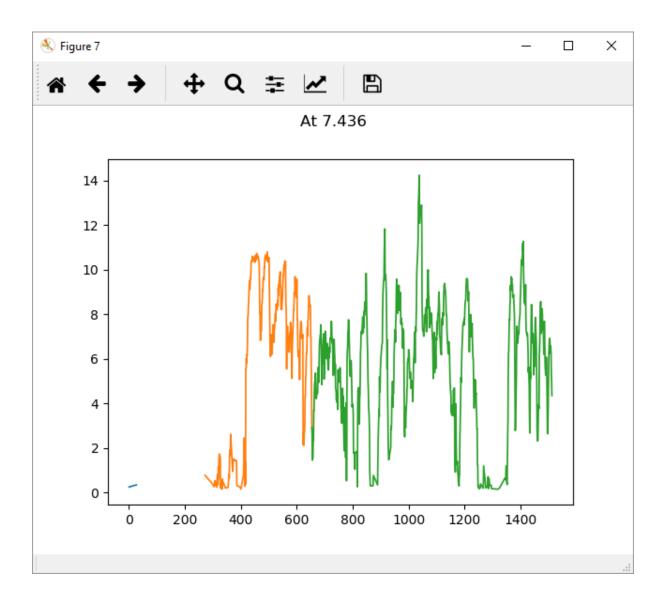




Anchors at 8.14 : [0. 1511.]

No. of Anchors at 8.14 : 2

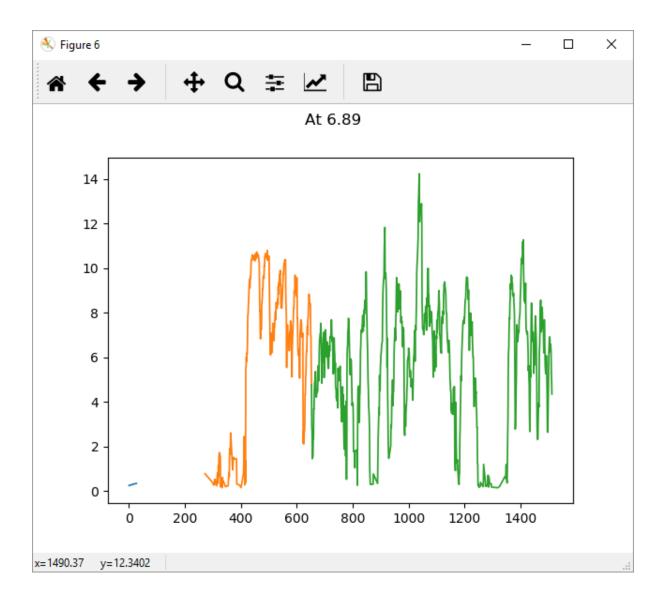
Time for 8.14: 0.23437094688415527



Anchors at 7.436 : [0. 83. 653. 1511.]

No. of Anchors at 7.436: 4

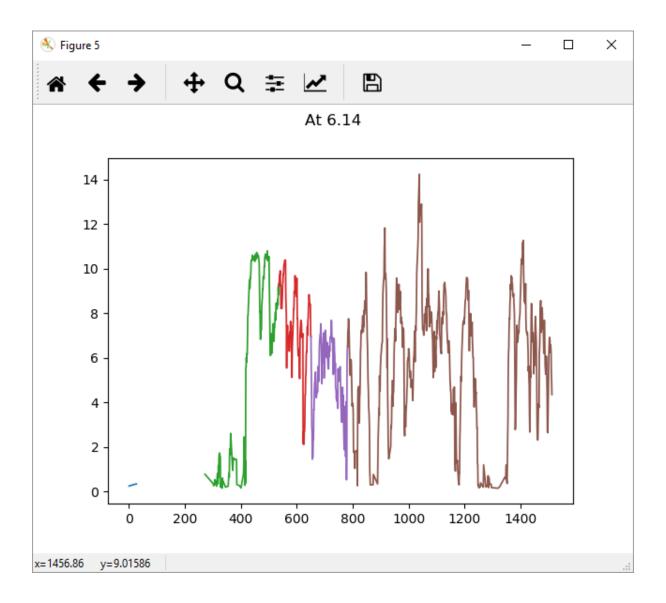
Time for 7.436 : 0.2501084804534912



Anchors at 6.89 : [0. 75. 652. 1511.]

No. of Anchors at 6.89: 4

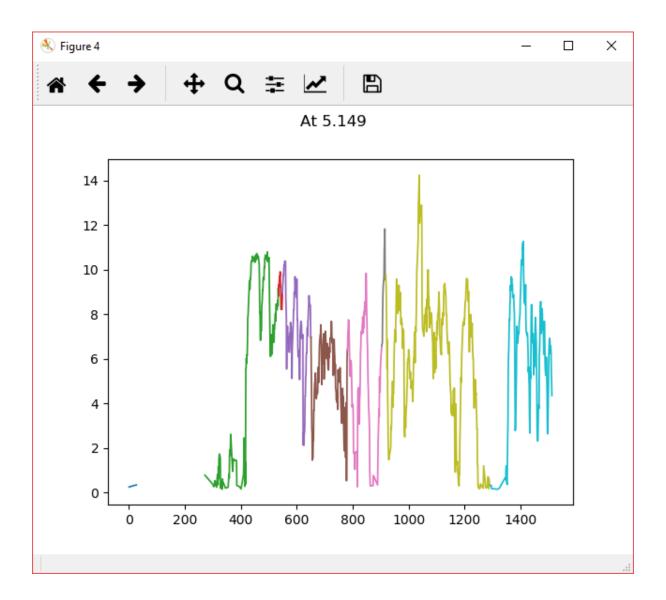
Time for 6.89: 0.2514481544494629



Anchors at 6.14: [0. 71. 269. 536. 650. 781. 1511.]

No. of Anchors at 6.14:7

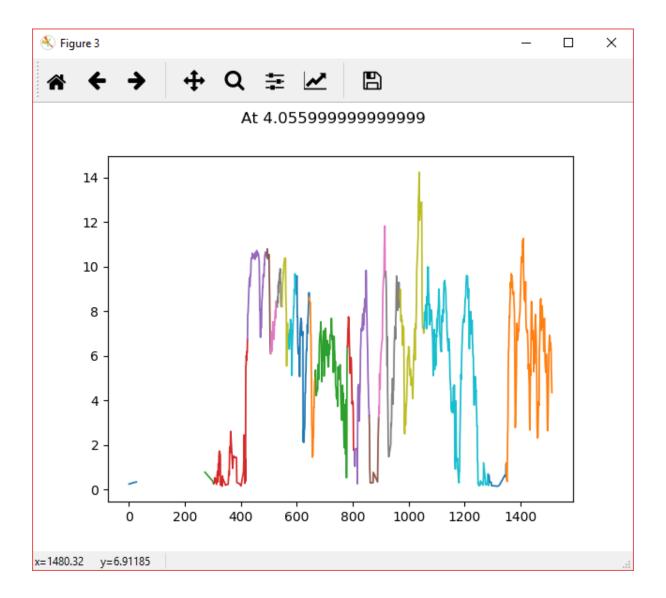
Time for 6.14: 0.2501223087310791

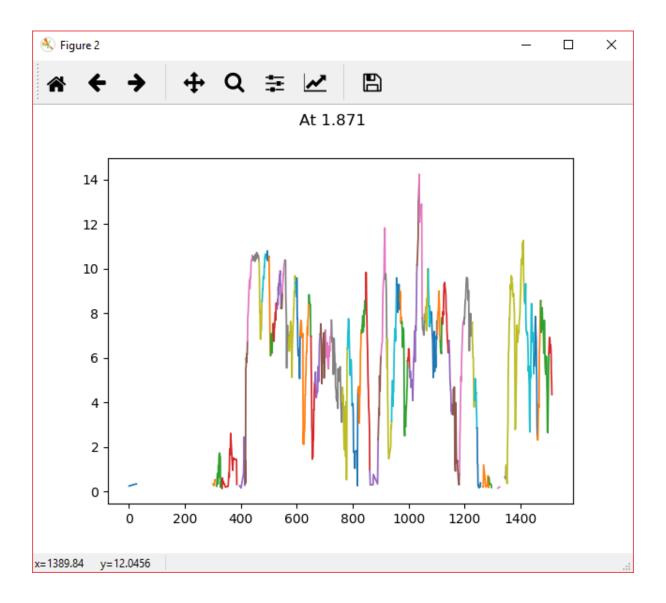


Anchors at 5.149 : [0. 70. 269. 534. 548. 650. 780. 903. 917. 1290. 1511.]

No. of Anchors at 5.149 : 11

Time for 5.149 : 0.2866981029510498





Anchors at 1.871 : [0. 64. 76. 114. 151. 184. 210. 237. 250. 269. 278. 299. 310. 332. 388. 415. 423. 443. 464. 475. 493. 500. 506. 515. 528. 543. 548. 557. 570. 594. 599. 611. 642. 650. 663. 683. 702. 723. 762. 780. 799. 819. 831. 846. 860. 890. 900. 915. 922. 938. 956. 968. 974. 995. 1002. 1029. 1036. 1048. 1058. 1069. 1079. 1101. 1112. 1120. 1143. 1157. 1181. 1197. 1226. 1234. 1243. 1259. 1286. 1296. 1302. 1305. 1318. 1327. 1347. 1415. 1448. 1459. 1471. 1500. 1511.]

No. of Anchors at 1.871: 85

Time for 1.871: 0.7999491691589355

Code

```
start = time.time()
for i in
np.percentile(d,[0,10,20,30,40,50,60,70,80,90,100]):
    s1 = time.time()
    s = SlidingWindowSegmentation(f,d,i)
    print("Anchors at ",i," : ",s.get_anchor())
    s2 = time.time()
    print("No. of Anchors at ",i," :
",s.get_anchor_length())
    print("Time for ",i," : ",s2-s1,"\n")
print("\nTotal Time : ",time.time()-start)
```

Output

```
0.
                                             9.
Anchors at
              0.15
                      : [
                                      3.
                                                   12.
                                                           14.
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              27.
                      32.
                             35.
                                     37.
                                                   43.
18.
       24.
                                            41.
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58.
       60.
              62.
                      64.
                             66.
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80.
       83.
              88.
                            111.
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                      98.
126.
       130.
              132.
                      141.
                             148.
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159.
                                                   180.
                                                           182.
       161.
              163.
                      166.
                             169.
                                    171.
                                            178.
184.
       188.
              190.
                      194.
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211.
              216.
233.
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258.
       261.
              264.
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                      269.
283.
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              288.
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307.
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336.
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361.
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              365.
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406.
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426.
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              430.
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453.
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              464.
                      468.
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484.
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504.
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528.
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551.
       554.
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                      559.
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572.
              578.
                      580.
                             582.
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              602.
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598.
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623.
       626.
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644.
       647.
                      652.
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              650.
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                                    661.
                                            663.
672.
       675.
              678.
                      680.
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695.
       698.
              701.
                      703.
                             705.
                                    707.
                                            709.
                                                   712.
                                                           714.
                             726.
716.
       719.
              722.
                      724.
                                    729.
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                                                           738.
```

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740.
      742.
            747.
                  749.
                         752.
                               754.
                                      756.
                                            758.
                                                  761.
            767.
763.
      765.
                   769.
                         774.
                               780.
                                      782.
                                            784.
                                                  790.
                   801.
794.
      797.
            799.
                         803.
                               805.
                                      807.
                                            813.
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      823.
                         830.
819.
            826.
                   828.
                               832.
                                      835.
                                            837.
                                                  839.
842.
      844.
            846.
                   848.
                         851.
                               854.
                                      856.
                                            858.
                                                  860.
                         883.
                                     887.
862.
      869.
            873.
                   875.
                               885.
                                           889.
                                                  891.
                   900.
                                           912.
893.
      895.
            898.
                         903.
                               906.
                                     908.
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916.
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            921.
                   923.
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                                                  938.
943.
      945.
            947.
                  949.
                         954.
                               956.
                                     962.
                                            964.
                                                  966.
968.
      970.
            973.
                  975.
                         977. 980. 982.
                                           984.
                                                  987.
            993.
                   995.
                         999. 1002. 1004. 1006. 1008.
989.
      991.
1010. 1012. 1014. 1017. 1020. 1022. 1025. 1027. 1029.
1031. 1033. 1035. 1037. 1041. 1044. 1046. 1048. 1051.
1054. 1057. 1062. 1064. 1066. 1068. 1070. 1073. 1075.
1077. 1079. 1081. 1084. 1086. 1089. 1092. 1094. 1096.
1099. 1101. 1107. 1110. 1112. 1115. 1117. 1119. 1121.
1124. 1127. 1129. 1133. 1137. 1139. 1142. 1145. 1147.
1149. 1153. 1156. 1161. 1164. 1166. 1171. 1174. 1176.
1180. 1183. 1185. 1187. 1189. 1192. 1194. 1196. 1199.
1203. 1206. 1208. 1213. 1215. 1219. 1224. 1226. 1229.
1231. 1233. 1236. 1238. 1241. 1243. 1245. 1249. 1251.
1253. 1256. 1258. 1260. 1266. 1268. 1270. 1274. 1277.
1279. 1281. 1283. 1285. 1287. 1290. 1292. 1294. 1296.
1299. 1301. 1305. 1307. 1309. 1313. 1317. 1319. 1321.
1325. 1327. 1329. 1331. 1334. 1336. 1341. 1345. 1347.
1349. 1353. 1357. 1360. 1364. 1366. 1368. 1371. 1378.
1381. 1388. 1393. 1399. 1401. 1404. 1407. 1409. 1411.
1413. 1415. 1418. 1420. 1422. 1425. 1428. 1430. 1435.
1437. 1440. 1442. 1444. 1448. 1453. 1457. 1459. 1461.
1463. 1465. 1467. 1470. 1473. 1477. 1479. 1483. 1485.
1487. 1489. 1491. 1496. 1498. 1500. 1503. 1506. 1509.
No. of Anchors at
                    0.15
                         :
                             541
Time for 0.15:
                   4.693488597869873
                           0.
                                64.
                                      76.
                                            114.
Anchors at
            1.871
                  : [
                                                  151.
            237.
                  250.
                         269.
184.
      210.
                               278.
                                      299.
                                            310.
                                                  332.
388.
      415.
            423.
                   443.
                         464.
                               475.
                                      493.
                                            500.
                                                  506.
515.
      528.
            543.
                  548.
                         557.
                               570.
                                      594.
                                            599.
                                                  611.
642.
            663.
                   683.
                         702.
                               723.
                                      762.
                                            780.
                                                  799.
      650.
                         890.
                               900.
                                      915.
                                            922.
819.
      831.
            846.
                  860.
956.
      968.
            974.
                  995. 1002. 1029. 1036. 1048. 1058.
1069. 1079. 1101. 1112. 1120. 1143. 1157. 1181. 1197.
1226. 1234. 1243. 1259. 1286. 1296. 1302. 1305. 1318.
1327. 1347. 1415. 1448. 1459. 1471. 1500. 1511.]
No. of Anchors at 1.871 : 85
Time for 1.871 : 0.7999491691589355
```

```
302. 423. 493. 506. 529. 546. 571. 600. 644.
665. 780. 806. 858. 892. 917. 968. 1054. 1286.
1347. 1511.1
Anchors at 5.149 : [ 0. 70. 269. 534. 548.
650. 780. 903. 917. 1290. 1511.]
No. of Anchors at 5.149 : 11
Time for 5.149 : 0.2866981029510498
Anchors at 6.14 : [ 0. 71. 269. 536. 650. 781.
1511.1
No. of Anchors at 6.14 : 7
Time for 6.14 : 0.2501223087310791
Anchors at 6.89 : [ 0. 75. 652. 1511.]
No. of Anchors at 6.89 :
Time for 6.89 : 0.2514481544494629
Anchors at 7.436 : [ 0. 83. 653. 1511.]
No. of Anchors at 7.436: 4
Time for 7.436 : 0.2501084804534912
Anchors at 8.14 : [ 0. 1511.]
No. of Anchors at 8.14 : 2
Time for 8.14 : 0.23437094688415527
Anchors at 10.07900000000002 : [ 0.1511.]
No. of Anchors at 10.07900000000000 :
Anchors at 14.23 : [ 0.1511.]
No. of Anchors at 14.23 :
Time for 14.23 : 0.2343747615814209
```

Total Time: 7.859811544418335

With 0 m/sec speed

Threshold	Percentile	No. of Anchors
6.7	60%	9
5.55	50%	13
4.176	40%	<mark>25</mark>

Without 0 m/sec speed

Threshold	Percentile	No. of Anchors
5.149	30%	11
4.056	20%	23