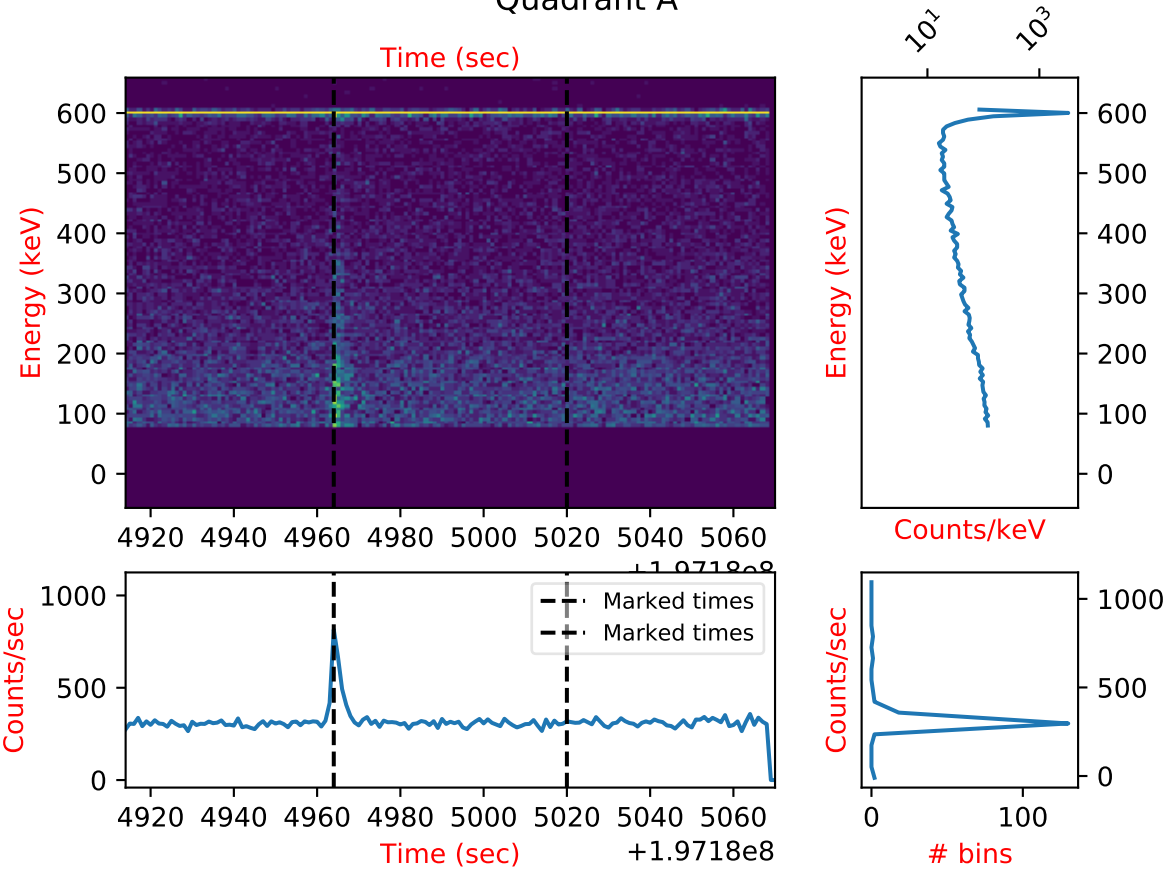
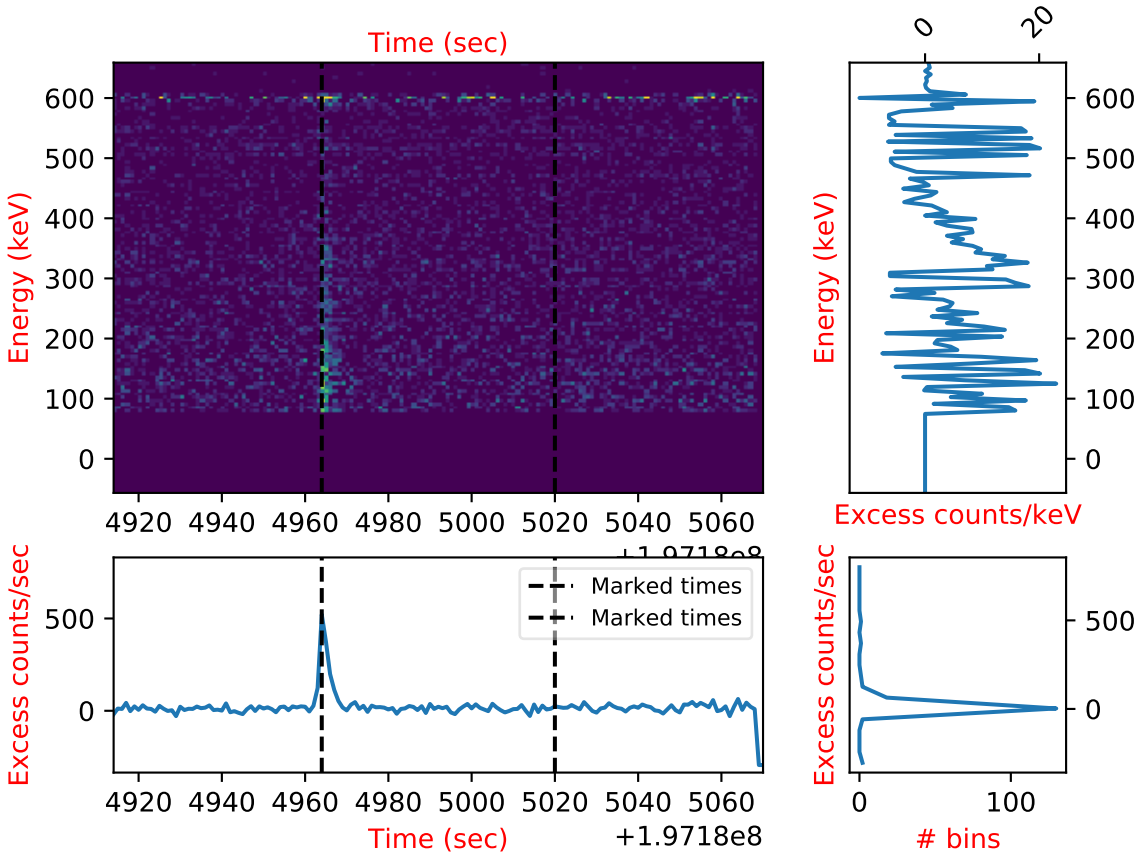
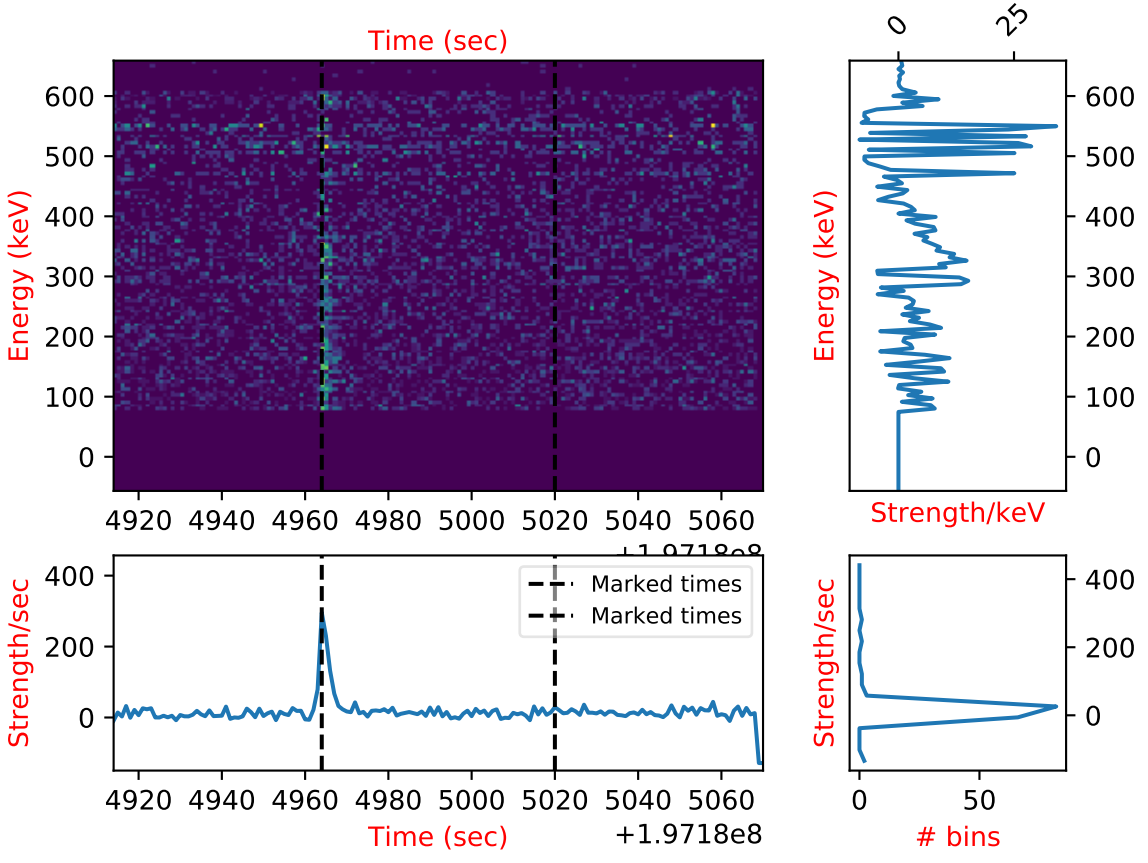
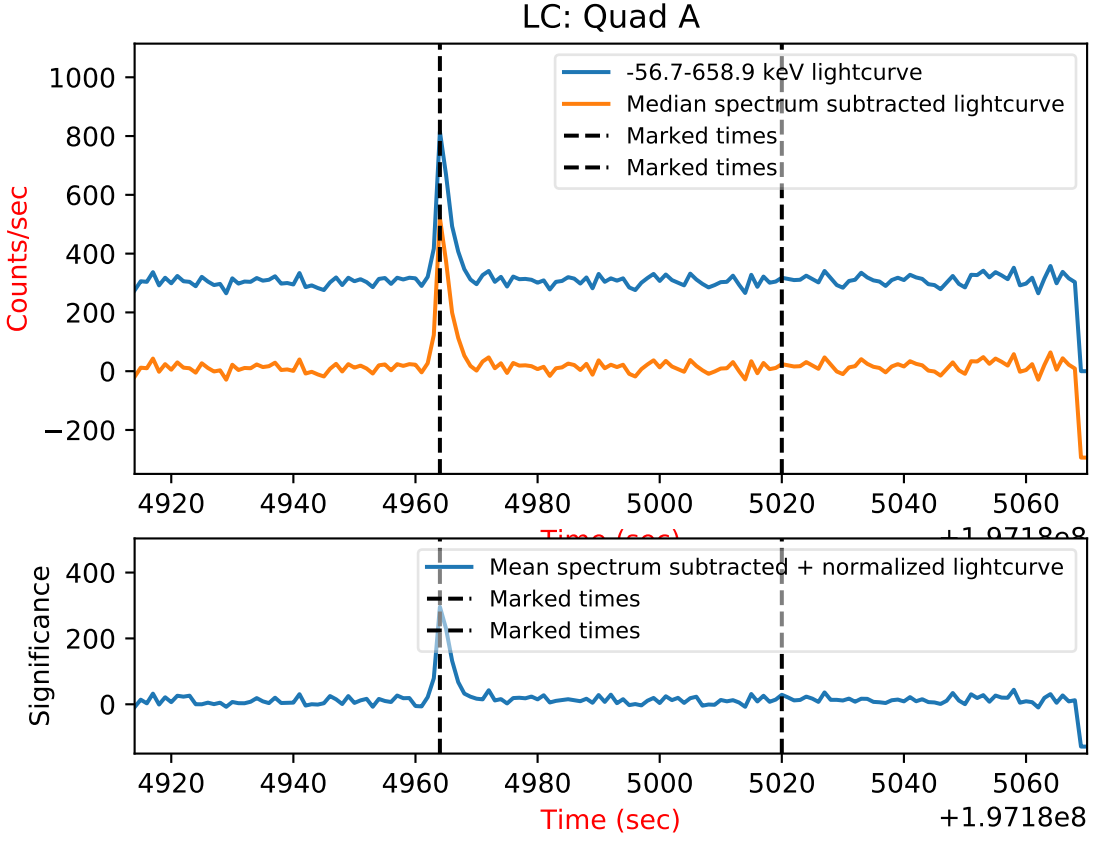
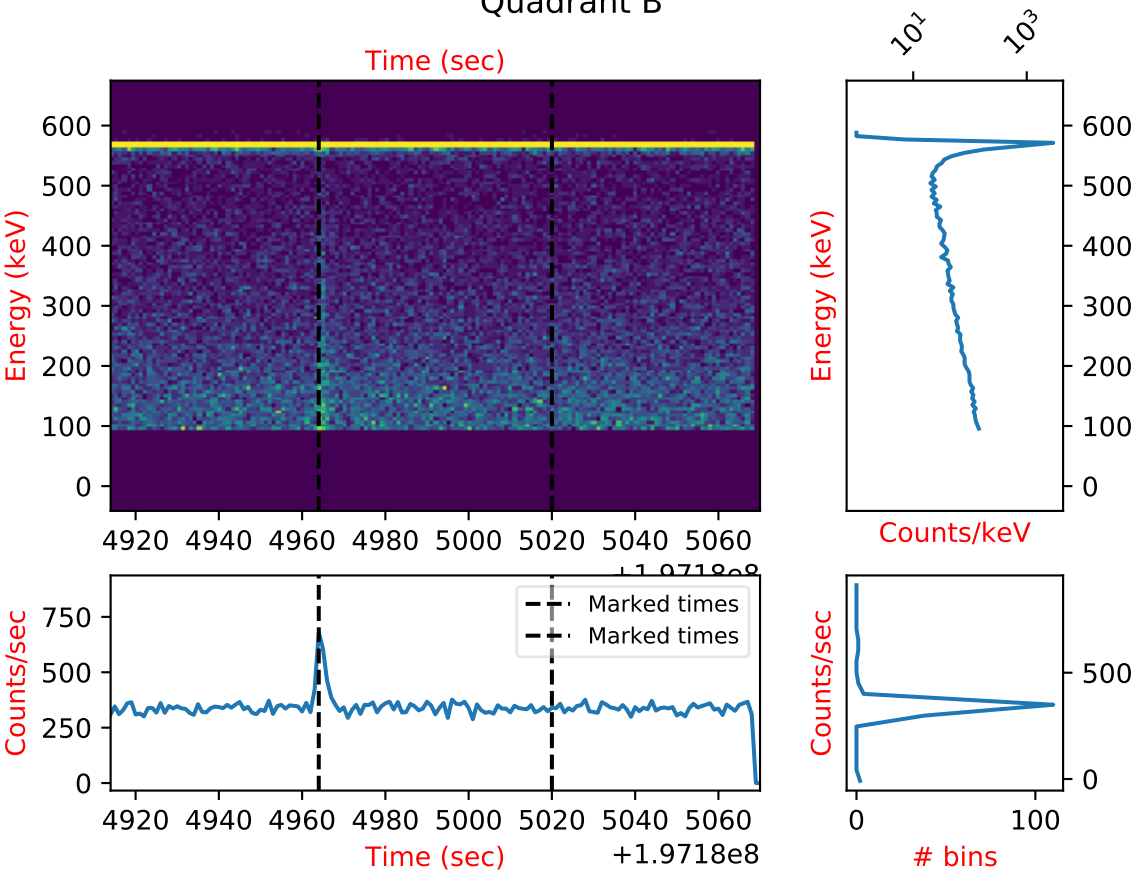
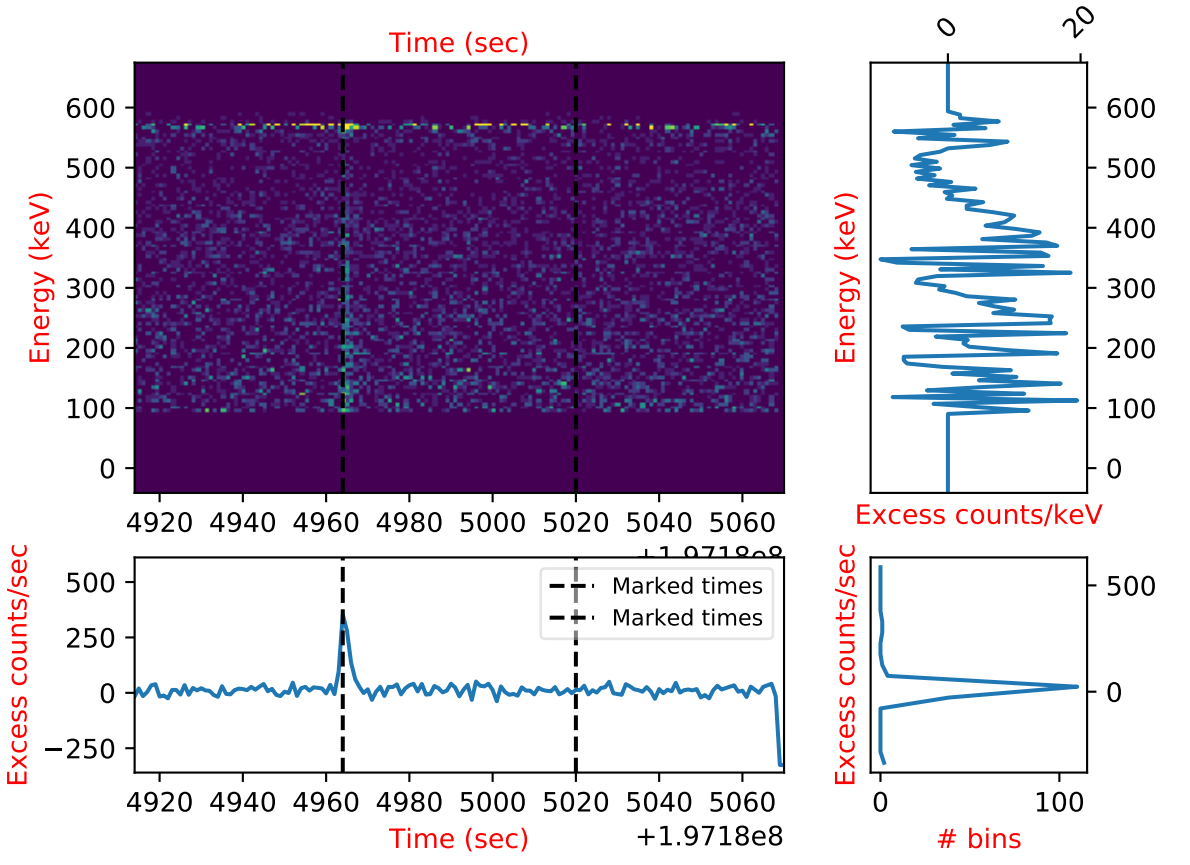

Quadrant A
Time (sec)
Energy (keV)
600
500
400
300
200
100
0
4920 4940 4960 4980 5000 5020 5040 5060
+1.9718e8
10^1
10^3
Counts/keV
Counts/sec
1000
500
0
Marked times
Marked times
Time (sec)
+1.9718e8
bins
100

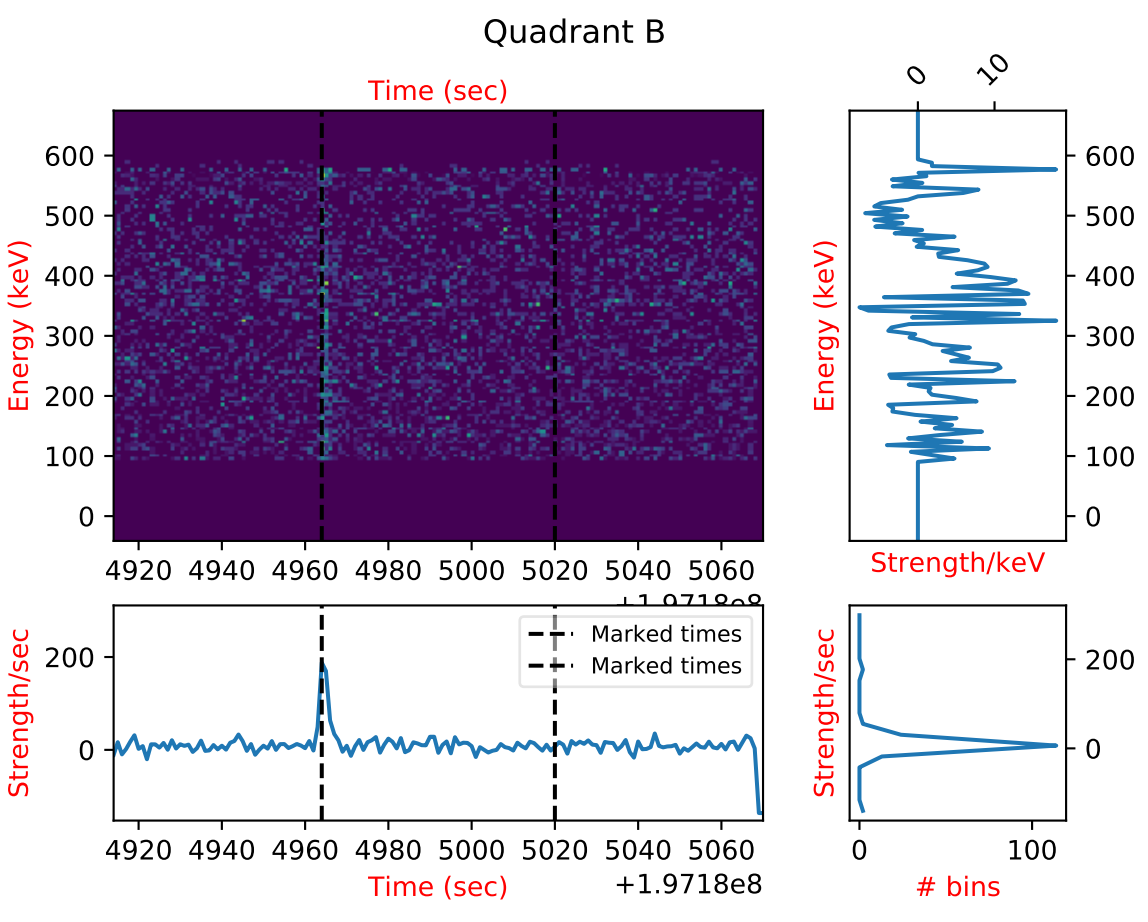

Quadrant A
Time (sec)
Energy (keV)
600
500
400
300
200
100
0
4920 4940 4960 4980 5000 5020 5040 5060
0
20
Excess counts/keV
Excess counts/sec
500
0
Marked times
Marked times
Time (sec)
+1.9718e8
bins
100

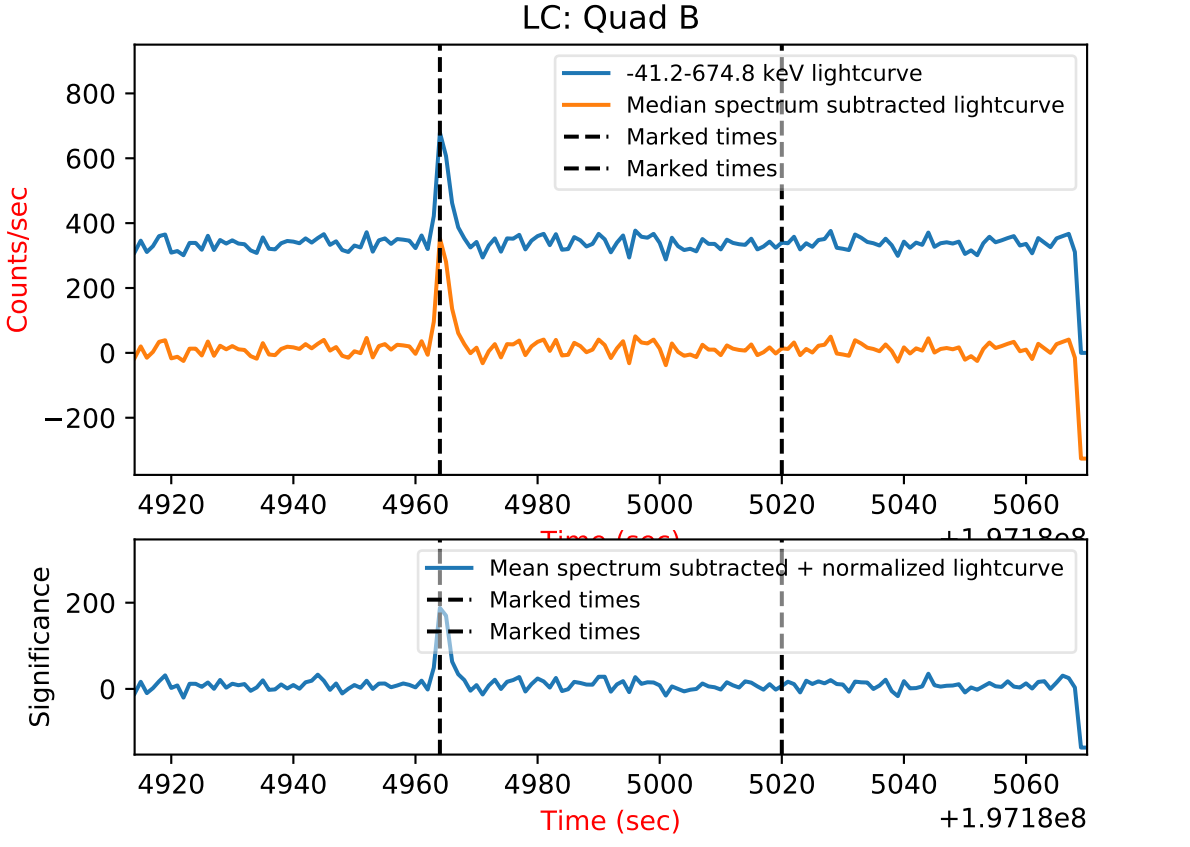

Quadrant A
Time (sec)
Energy (keV)
600
500
400
300
200
100
0
4920 4940 4960 4980 5000 5020 5040 5060
0
25
Strength/keV
Strength/sec
400
200
0
Marked times
Marked times
+1.9718e8
50
bins

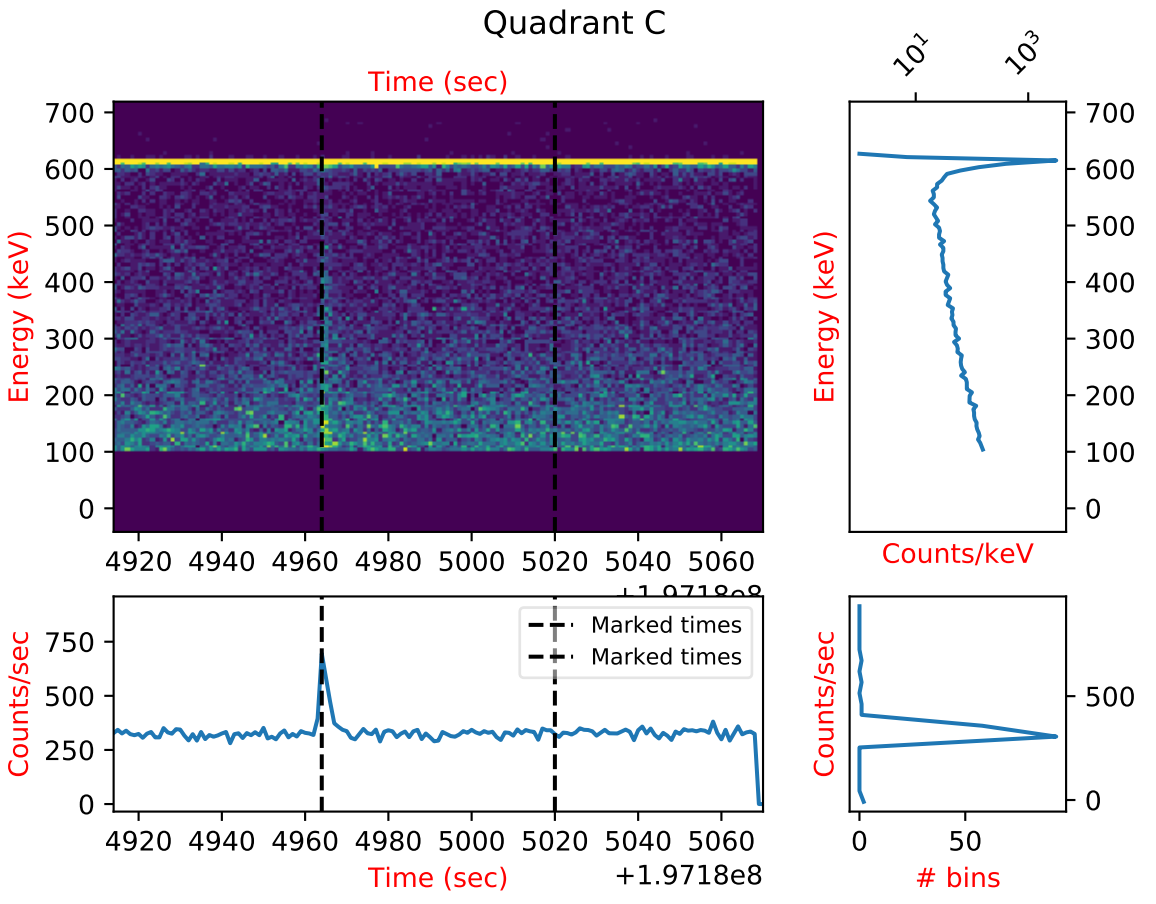

LC: Quad A
-56.7-658.9 keV lightcurve
Median spectrum subtracted lightcurve
Marked times
Marked times
Counts/sec
1000
800
600
400
200
0
−200
4920
4940
4960
4980
5000
5020
5040
5060
Mean spectrum subtracted + normalized lightcurve
Marked times
Marked times
Significance
400
200
0
Time (sec)
+1.9718e8

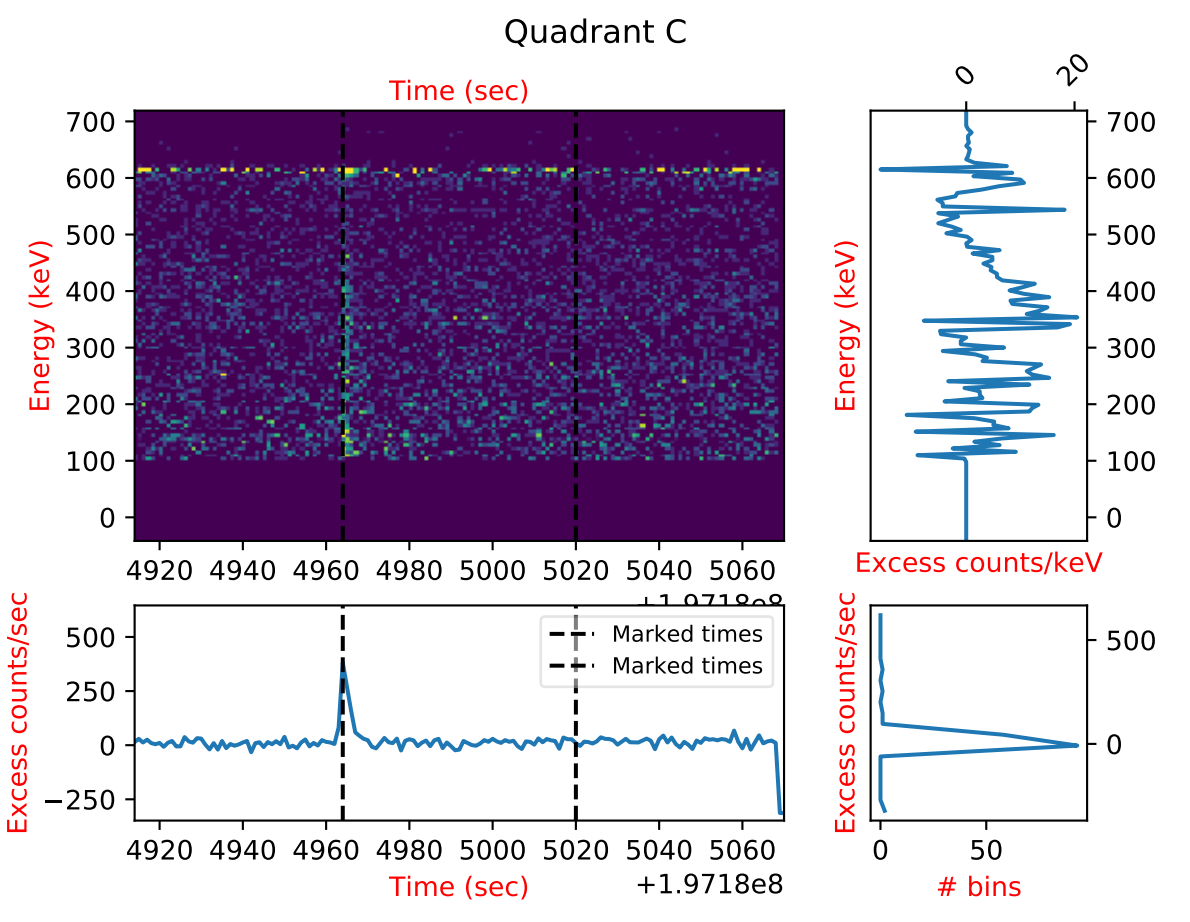

Quadrant B
Time (sec)
Energy (keV)
600
500
400
300
200
100
0
4920 4940 4960 4980 5000 5020 5040 5060
+1.9718e8
10^1
10^3
Energy (keV)
Counts/keV
Counts/sec
750
500
250
0
Marked times
Marked times
Time (sec)
+1.9718e8
Counts/sec
bins
0
100

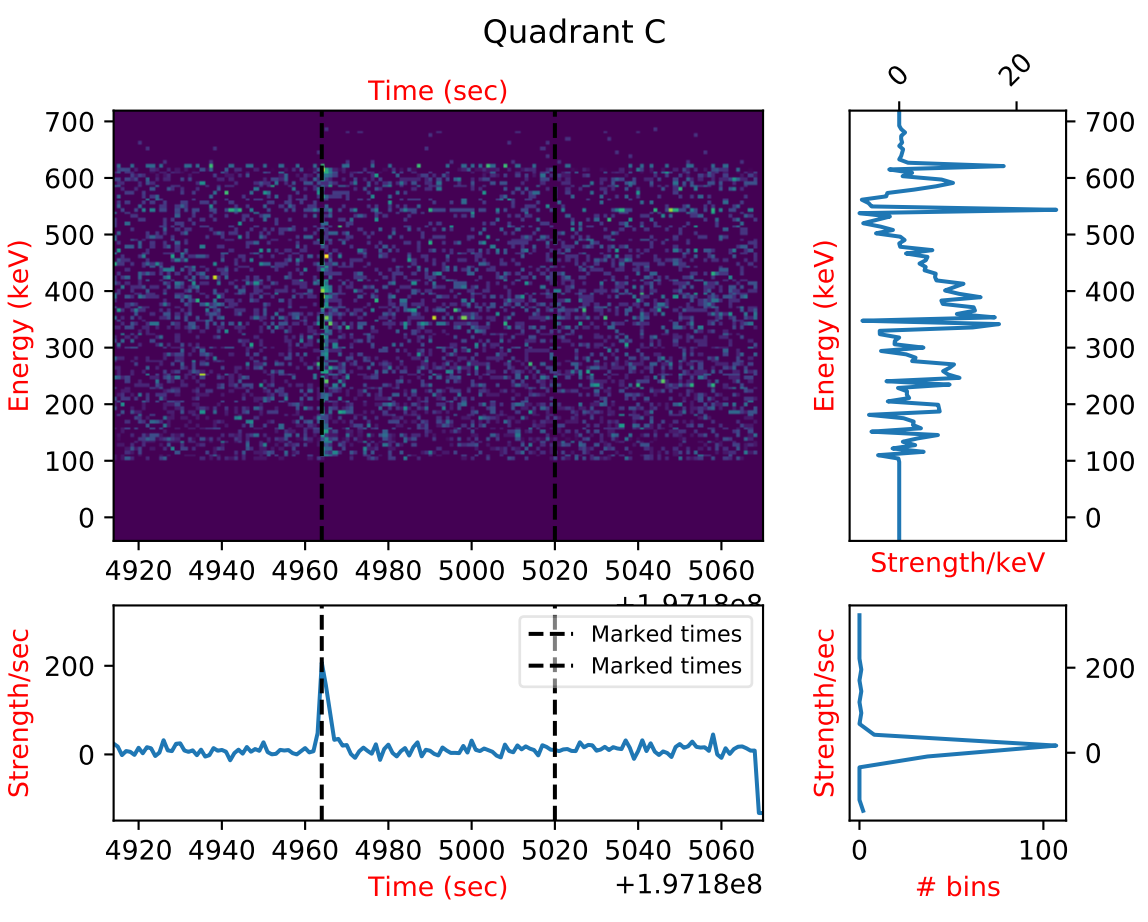

Quadrant B
Time (sec)
Energy (keV)
600
500
400
300
200
100
0
4920 4940 4960 4980 5000 5020 5040 5060
0
20
Excess counts/keV
Excess counts/sec
500
250
0
−250
Marked times
Marked times
Time (sec)
+1.9718e8
bins
100

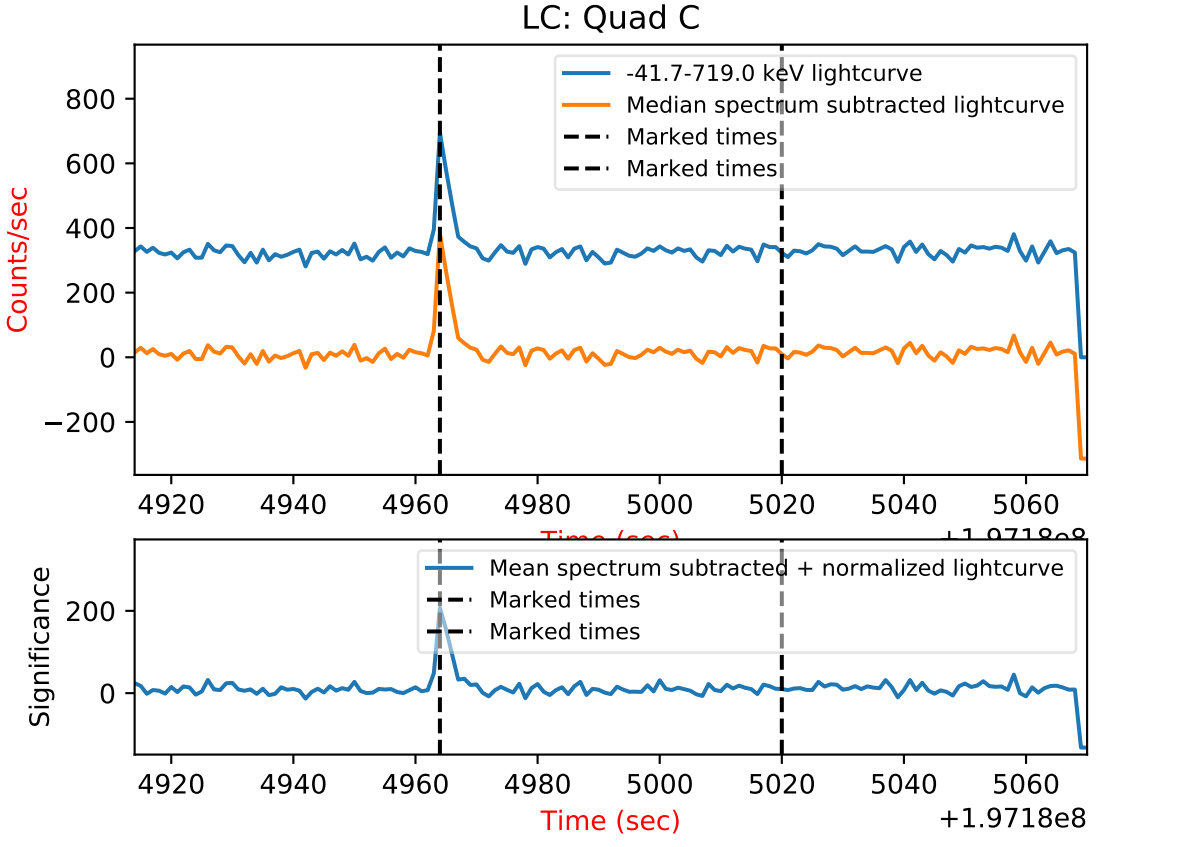

Quadrant B
Time (sec)
Energy (keV)
600
500
400
300
200
100
0
4920 4940 4960 4980 5000 5020 5040 5060
0
10
Strength/keV
Strength/sec
200
0
Marked times
Marked times
Time (sec)
+1.9718e8
bins
100

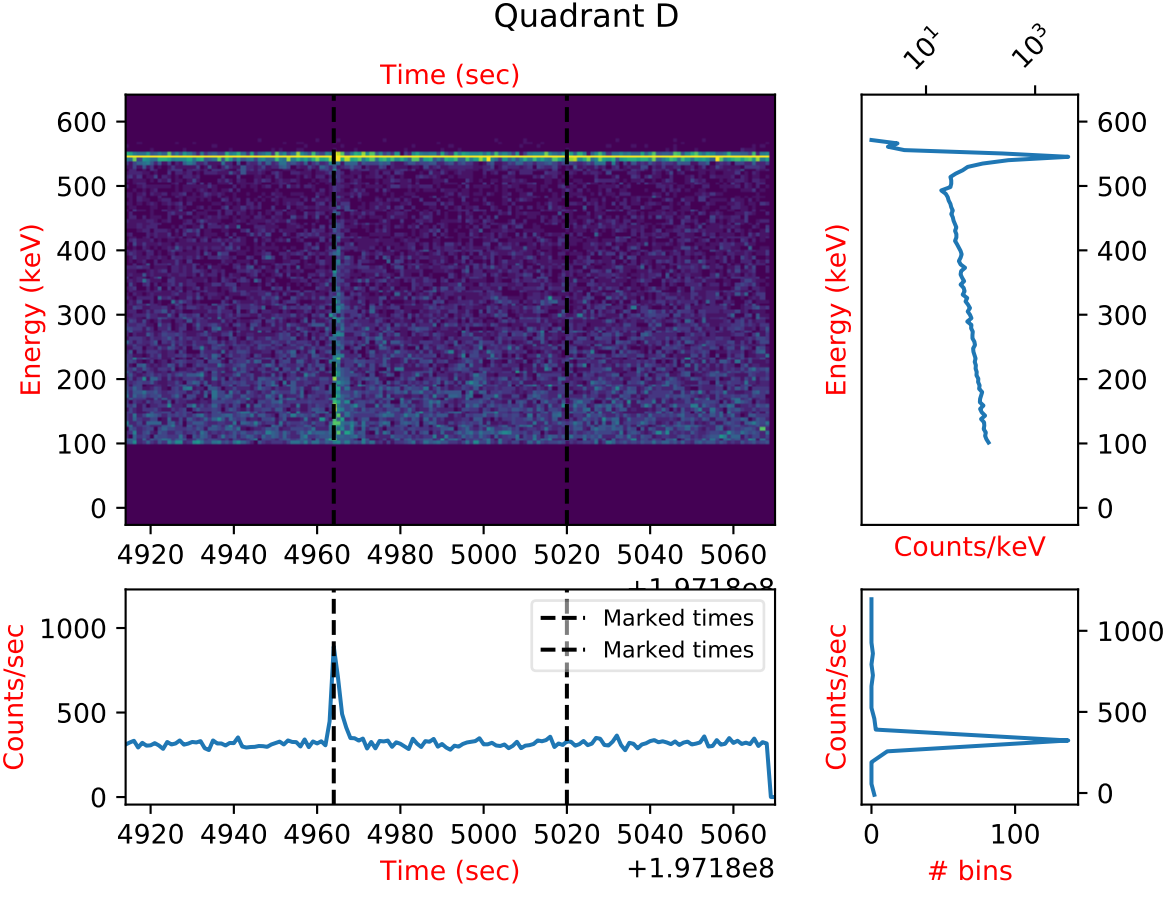

LC: Quad B
-41.2-674.8 keV lightcurve
Median spectrum subtracted lightcurve
Marked times
Marked times
Counts/sec
800
600
400
200
0
−200
4920
4940
4960
4980
5000
5020
5040
5060
Mean spectrum subtracted + normalized lightcurve
Marked times
Marked times
Significance
200
0
Time (sec)
+1.9718e8

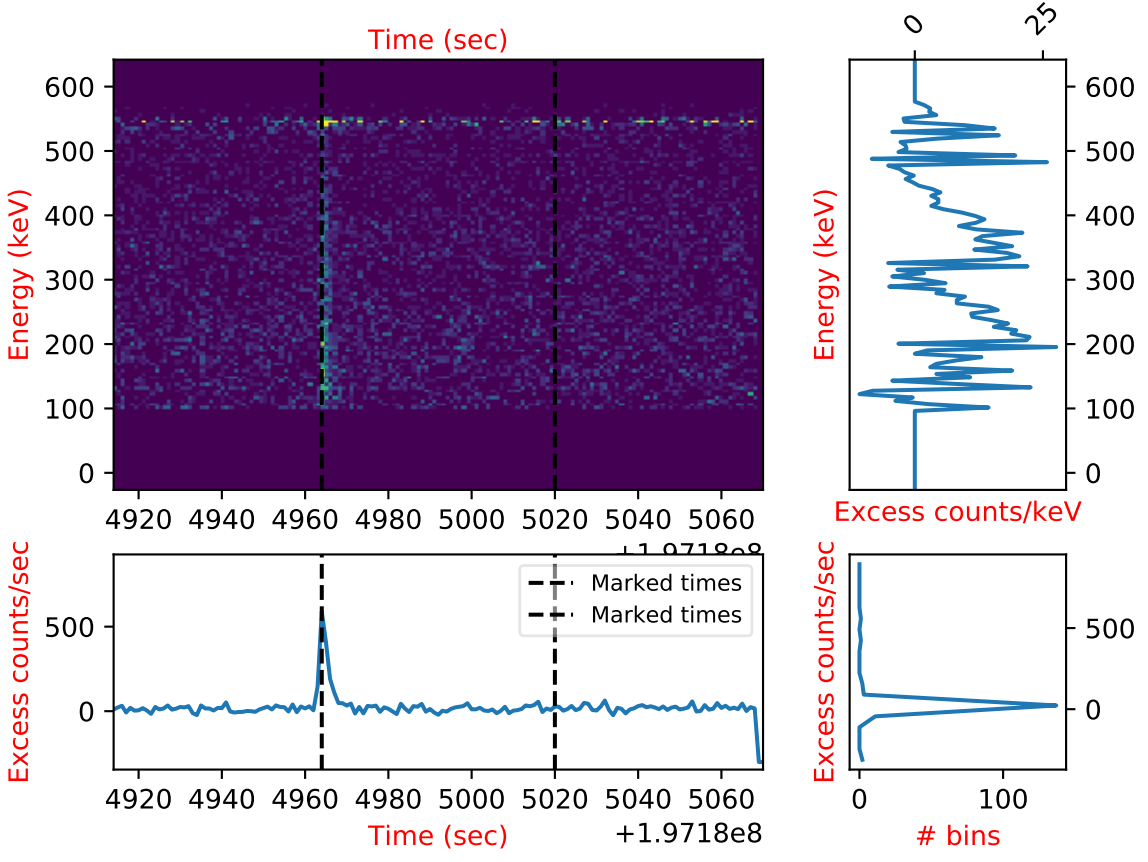

Quadrant C
Time (sec)
Energy (keV)
700
600
500
400
300
200
100
0
4920 4940 4960 4980 5000 5020 5040 5060
10^1
10^3
Counts/keV
Counts/sec
750
500
250
0
Marked times
Marked times
+1.9718e8
bins
50

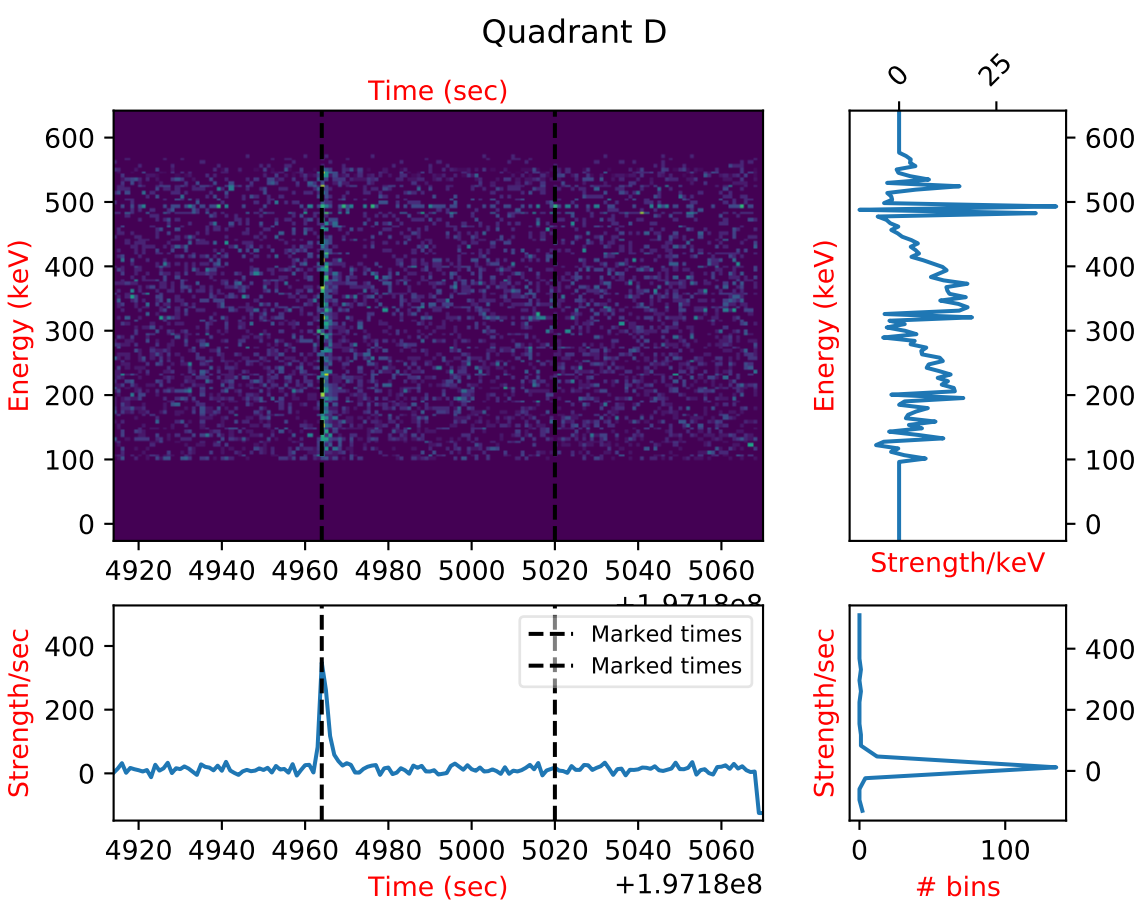

Quadrant C
Time (sec)
Energy (keV)
700
600
500
400
300
200
100
0
4920 4940 4960 4980 5000 5020 5040 5060
0
20
Energy (keV)
Excess counts/keV
Excess counts/sec
500
250
0
−250
Marked times
Marked times
4920 4940 4960 4980 5000 5020 5040 5060
Time (sec)
+1.9718e8
Excess counts/sec
500
0
0
50
bins

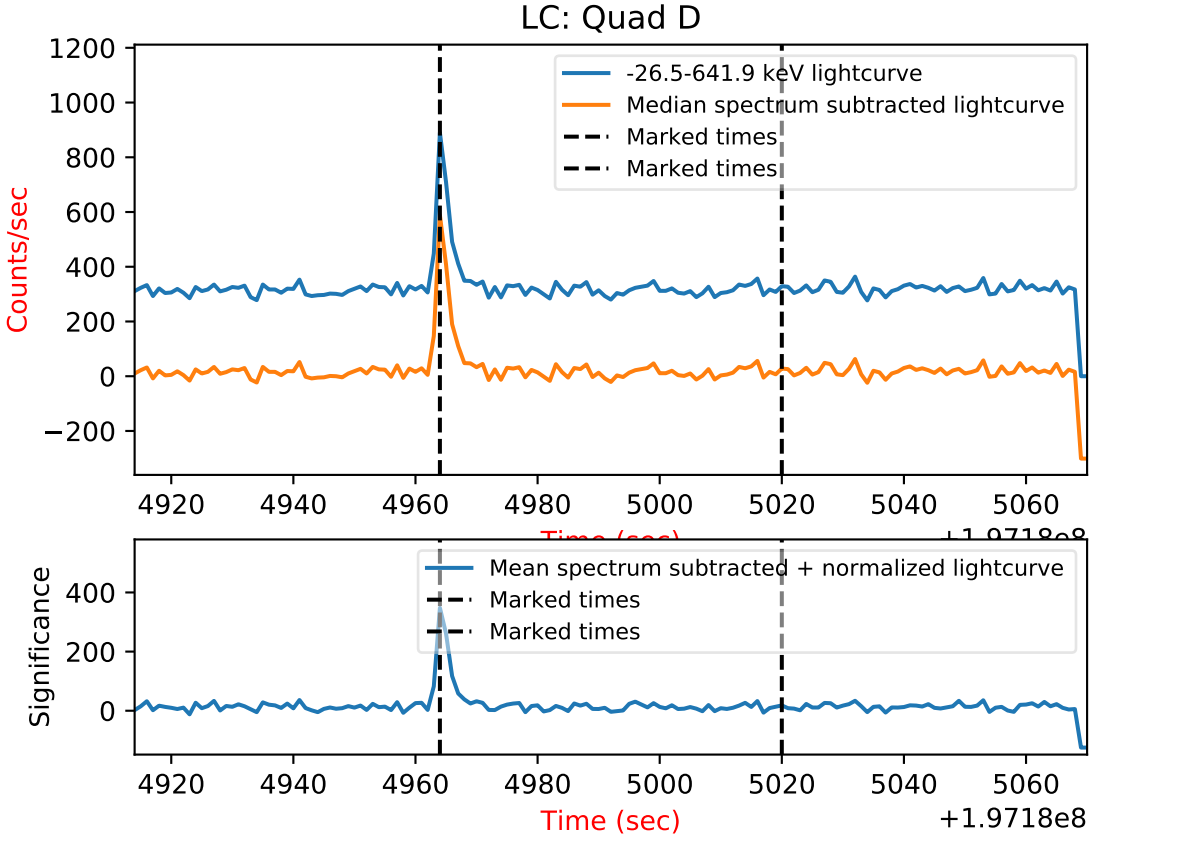

Quadrant C
Time (sec)
Energy (keV)
700
600
500
400
300
200
100
0
4920 4940 4960 4980 5000 5020 5040 5060
0
20
Strength/keV
Strength/sec
200
0
Marked times
Marked times
Time (sec)
+1.9718e8
bins
100

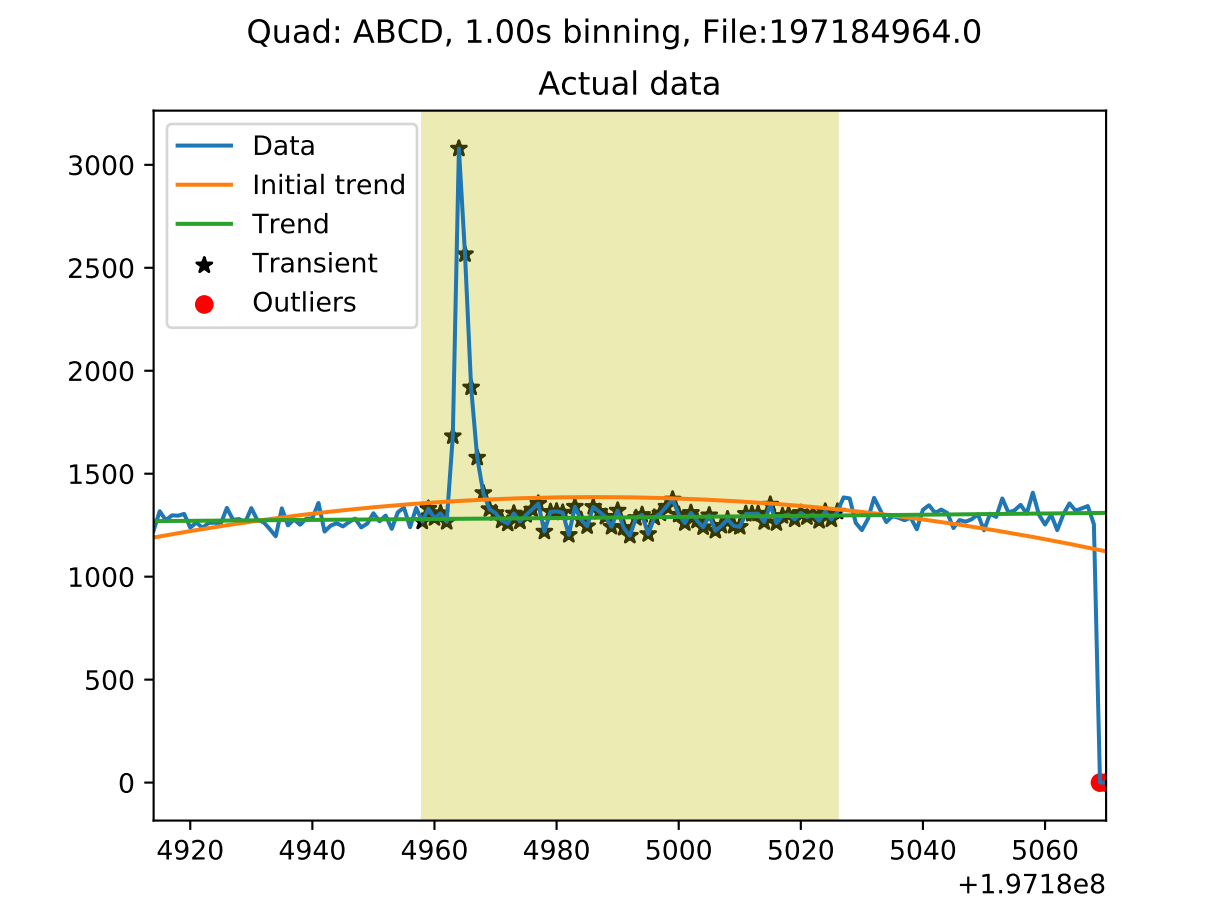

LC: Quad C
-41.7-719.0 keV lightcurve
Median spectrum subtracted lightcurve
Marked times
Marked times
Counts/sec
800
600
400
200
0
−200
4920
4940
4960
4980
5000
5020
5040
5060
Mean spectrum subtracted + normalized lightcurve
Marked times
Marked times
Significance
200
0
Time (sec)
+1.9718e8

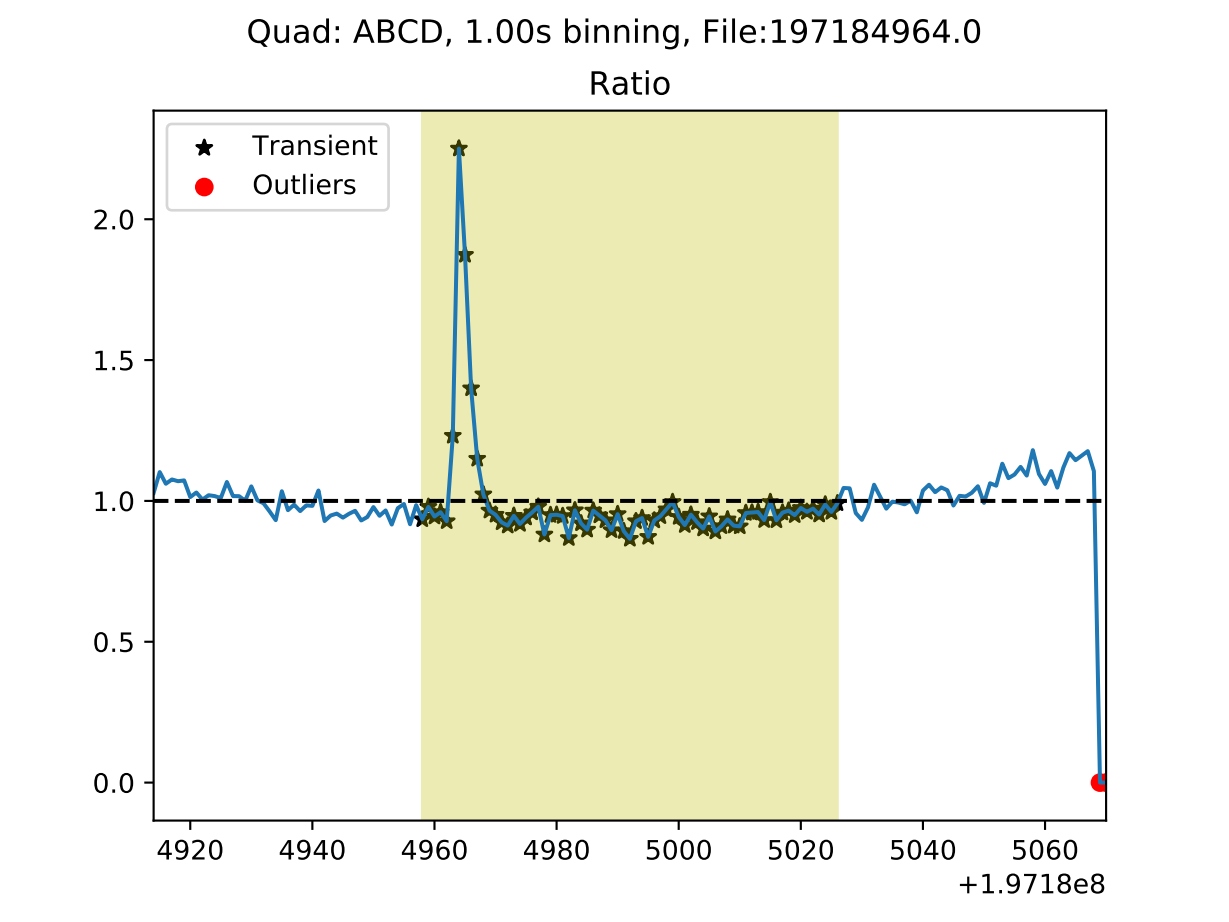

Quadrant D
Time (sec)
Energy (keV)
600
500
400
300
200
100
0
4920 4940 4960 4980 5000 5020 5040 5060
+1.9718e8
10^1
10^3
Counts/keV
Counts/sec
1000
500
0
Marked times
Marked times
Time (sec)
+1.9718e8
bins
100

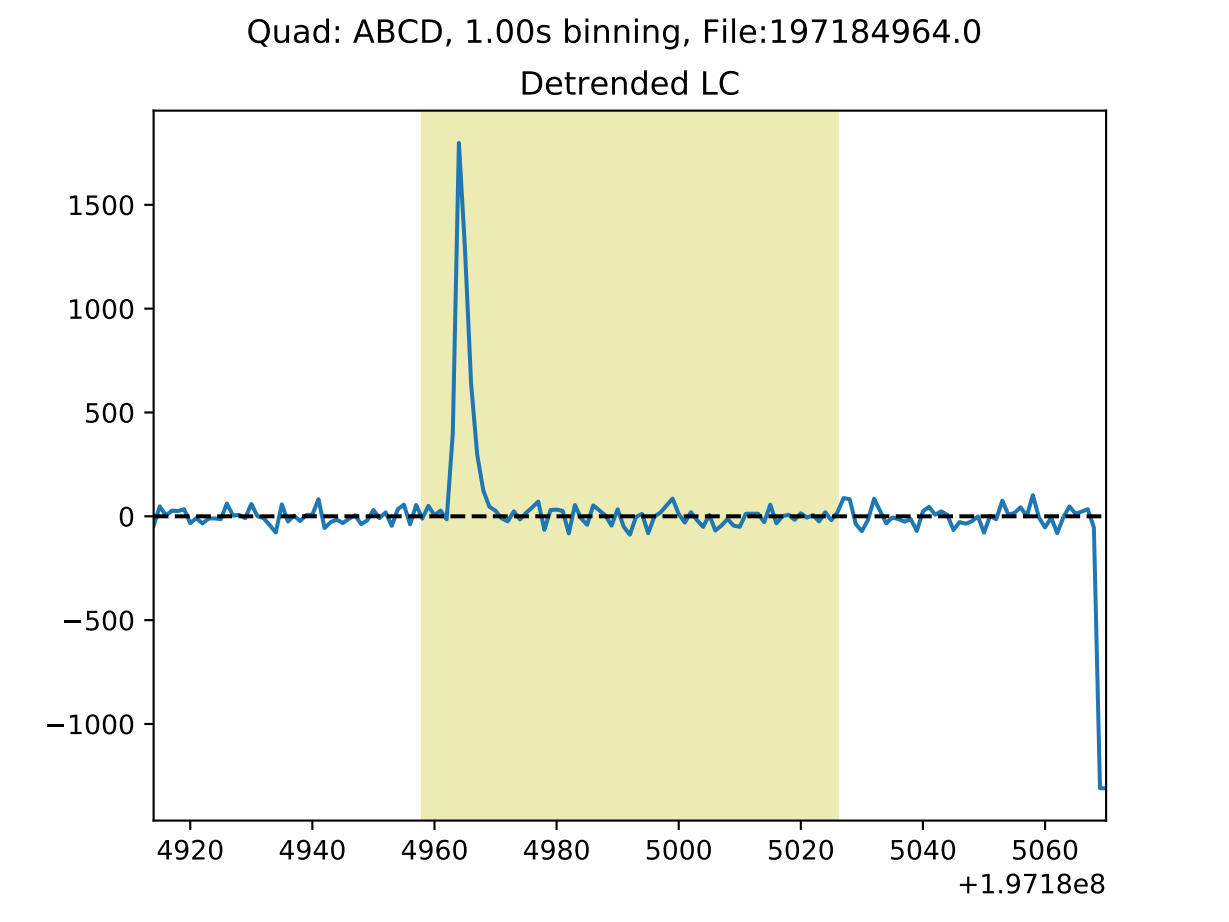

Quadrant D
Time (sec)
Energy (keV)
600
500
400
300
200
100
0
4920 4940 4960 4980 5000 5020 5040 5060
0
25
Energy (keV)
Excess counts/keV
Excess counts/sec
Marked times
Marked times
500
0
4920 4940 4960 4980 5000 5020 5040 5060
Time (sec)
+1.9718e8
Excess counts/sec
500
0
0
100
bins

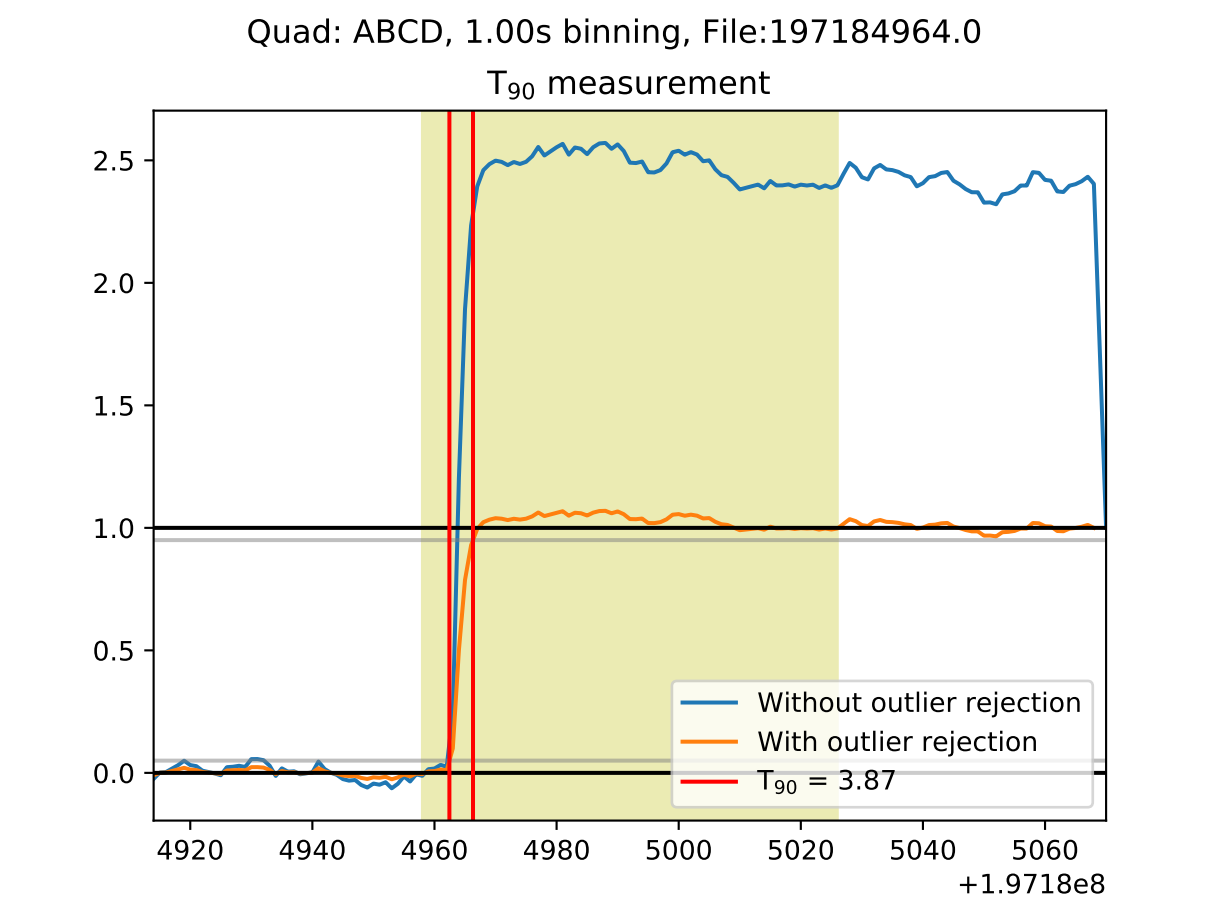

Quadrant D
Time (sec)
Energy (keV)
600
500
400
300
200
100
0
4920 4940 4960 4980 5000 5020 5040 5060
0
25
Energy (keV)
Strength/keV
Strength/sec
Marked times
Marked times
400
200
0
Time (sec)
+1.9718e8
Strength/sec
0
100
bins

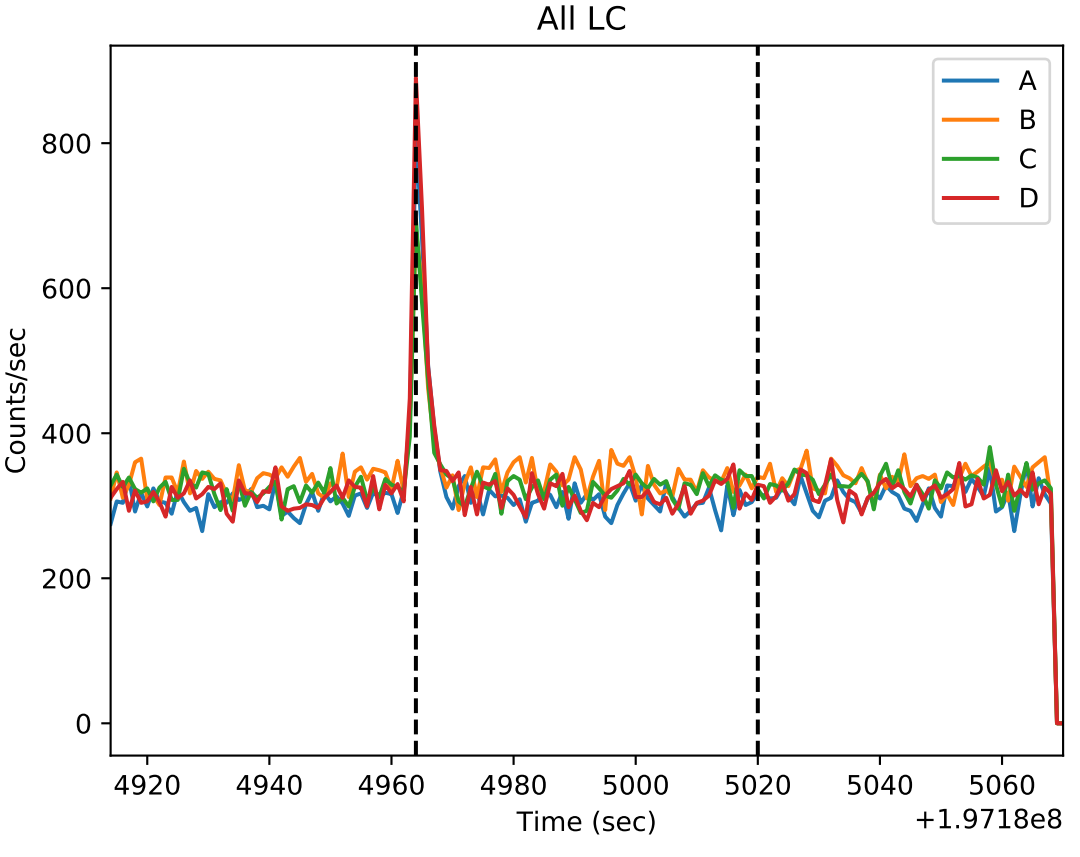

LC: Quad D
-26.5-641.9 keV lightcurve
Median spectrum subtracted lightcurve
Marked times
Marked times
Counts/sec
1200
1000
800
600
400
200
0
−200
4920
4940
4960
4980
5000
5020
5040
5060
Mean spectrum subtracted + normalized lightcurve
Marked times
Marked times
Significance
400
200
0
Time (sec)
+1.9718e8


Quad: ABCD, 1.00s binning, File:197184964.0
Actual data
Data
Initial trend
Trend
Transient
Outliers
3000
2500
2000
1500
1000
500
0
4920
4940
4960
4980
5000
5020
5040
5060
+1.9718e8


Quad: ABCD, 1.00s binning, File:197184964.0
Ratio
Transient
Outliers
2.0
1.5
1.0
0.5
0.0
4920
4940
4960
4980
5000
5020
5040
5060
+1.9718e8


Quad: ABCD, 1.00s binning, File:197184964.0
Detrended LC
1500
1000
500
0
−500
−1000
4920
4940
4960
4980
5000
5020
5040
5060
+1.9718e8


Quad: ABCD, 1.00s binning, File:197184964.0
T90 measurement
2.5
2.0
1.5
1.0
0.5
0.0
4920
4940
4960
4980
5000
5020
5040
5060
+1.9718e8
Without outlier rejection
With outlier rejection
T90 = 3.87


All LC
A
B
C
D
800
600
400
200
0
Counts/sec
4920
4940
4960
4980
5000
5020
5040
5060
Time (sec)
+1.9718e8