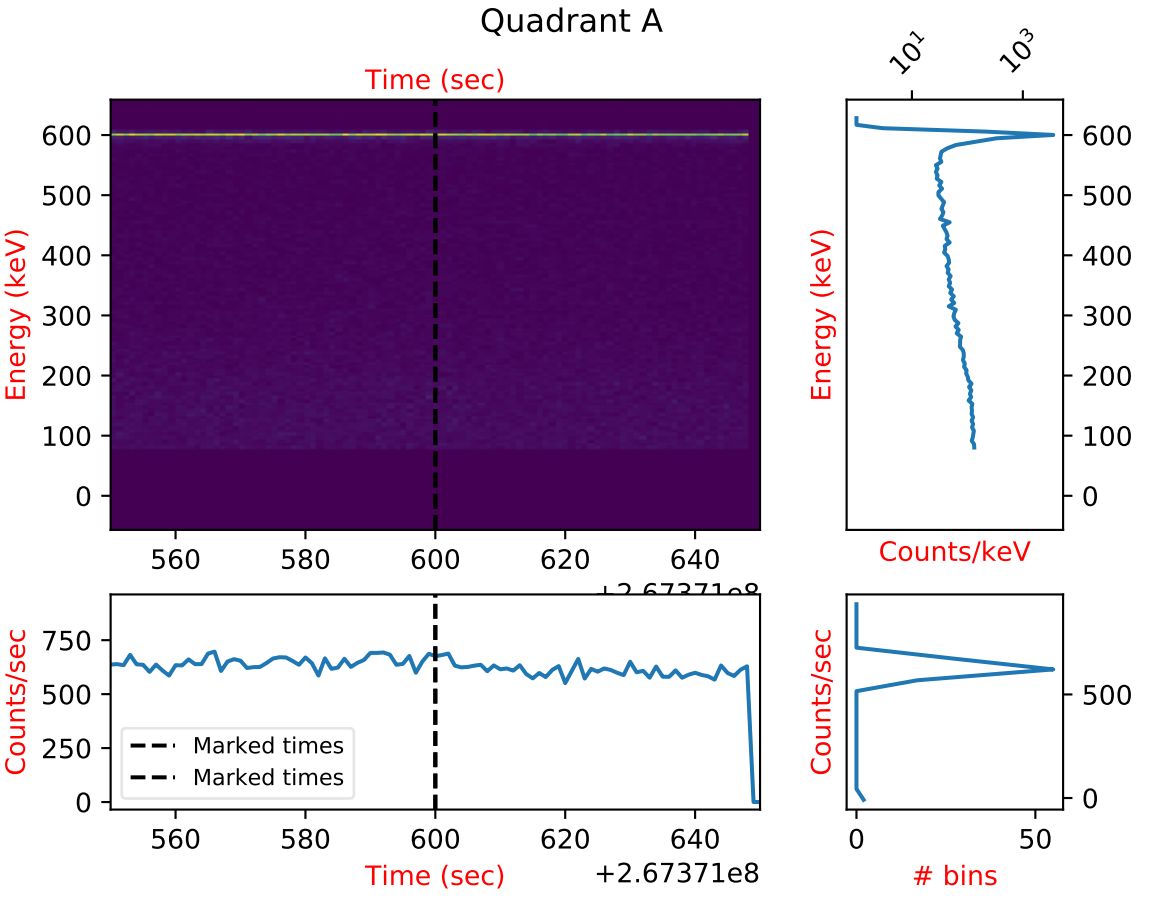
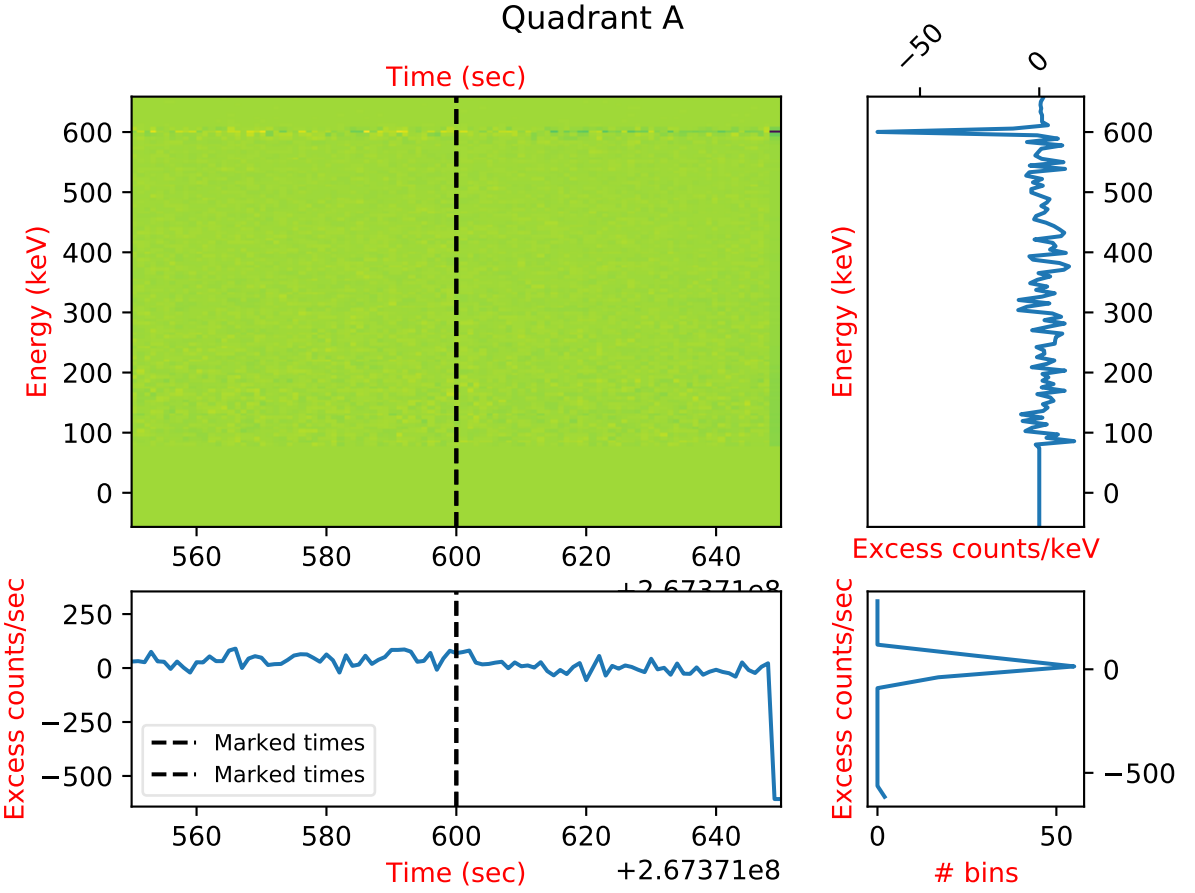
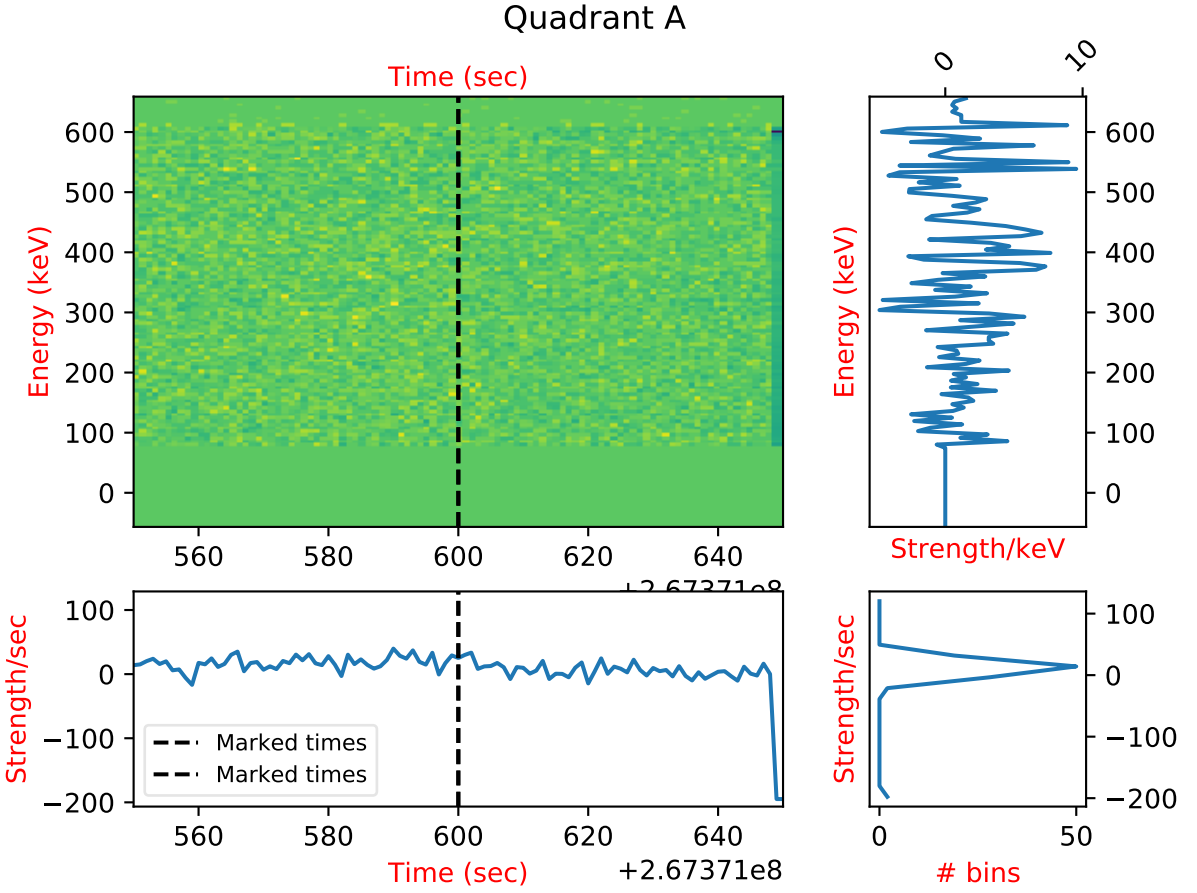
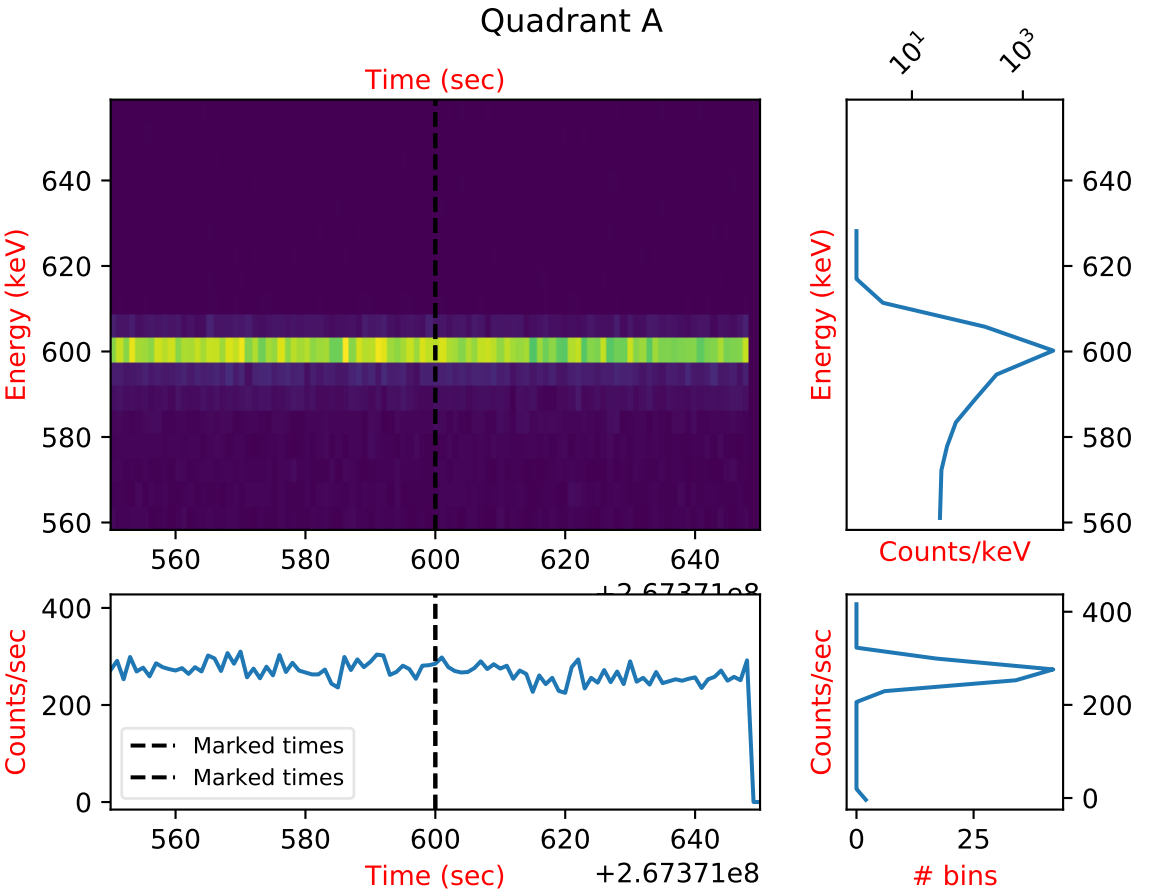
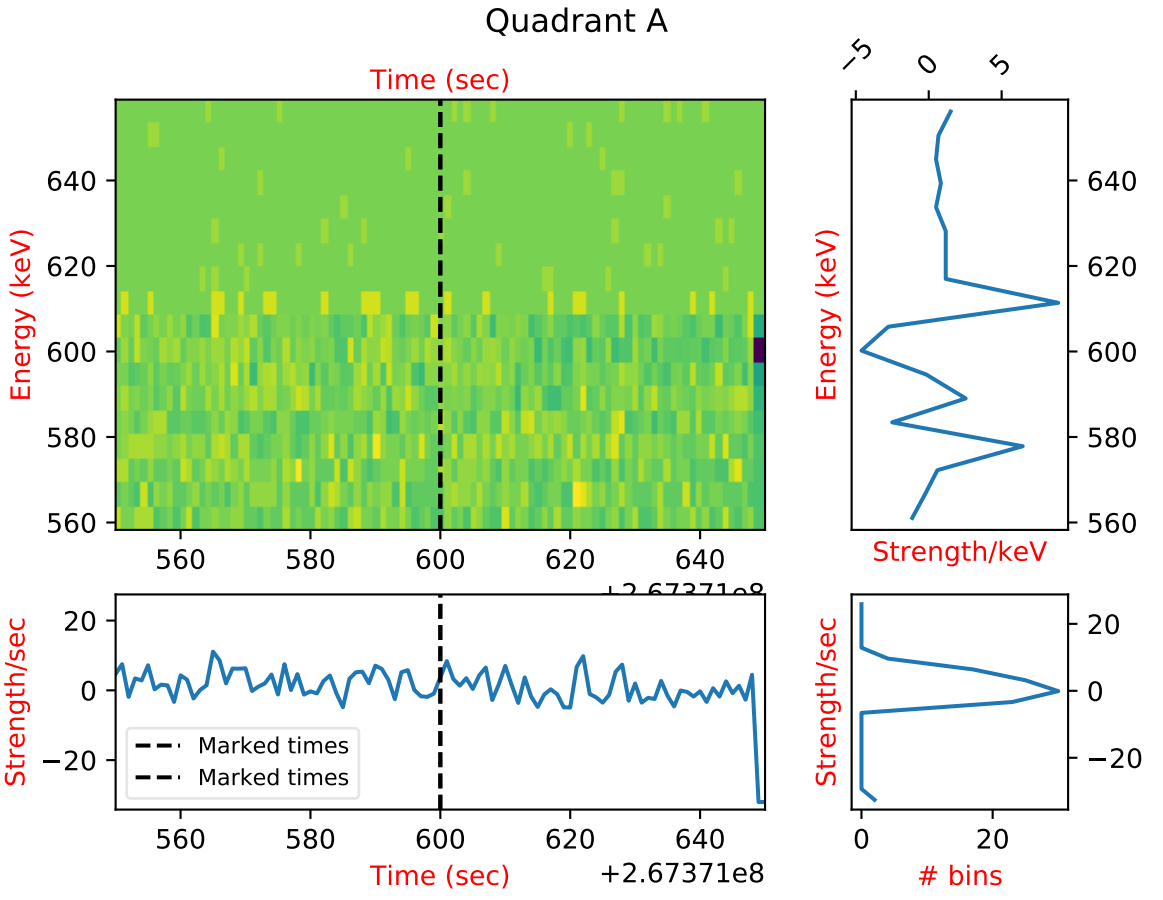
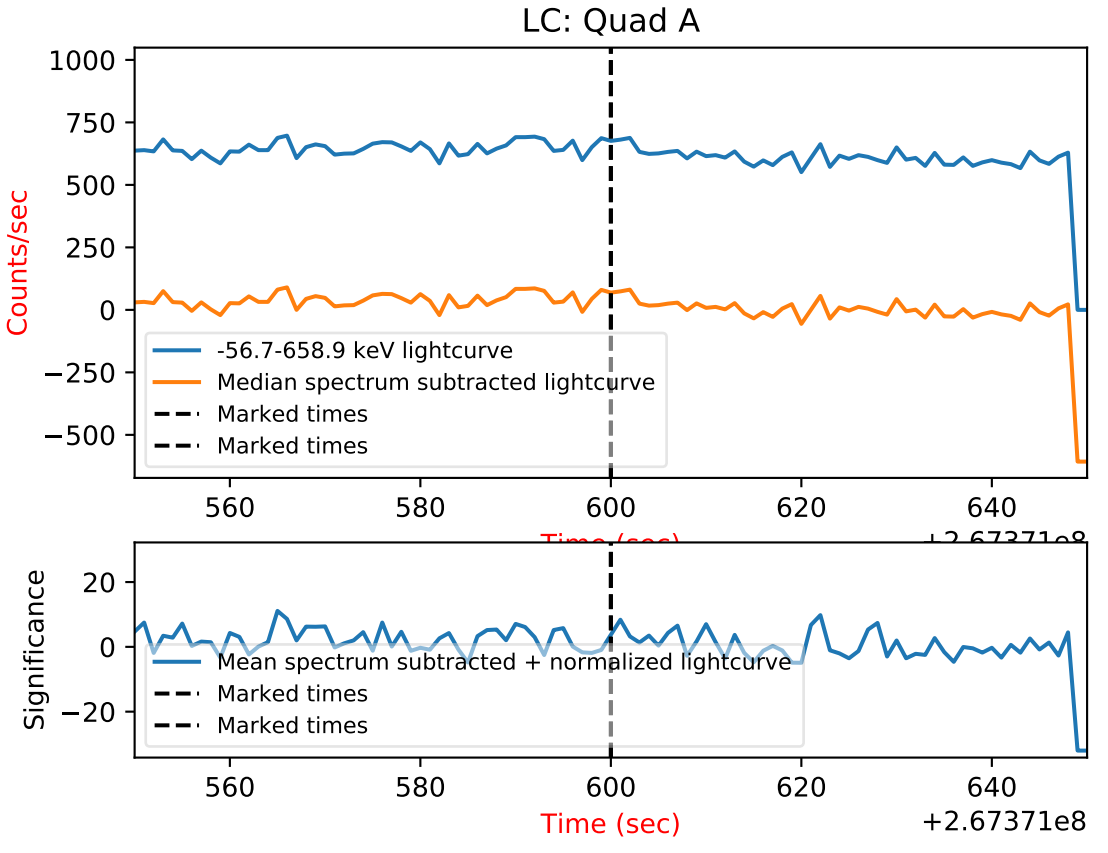

Quadrant A
Time (sec)
Energy (keV)
600
500
400
300
200
100
0
560
580
600
620
640
+2.67371e8
10^1
10^3
Counts/keV
Counts/sec
750
500
250
0
Marked times
Marked times
Time (sec)
+2.67371e8
bins
50

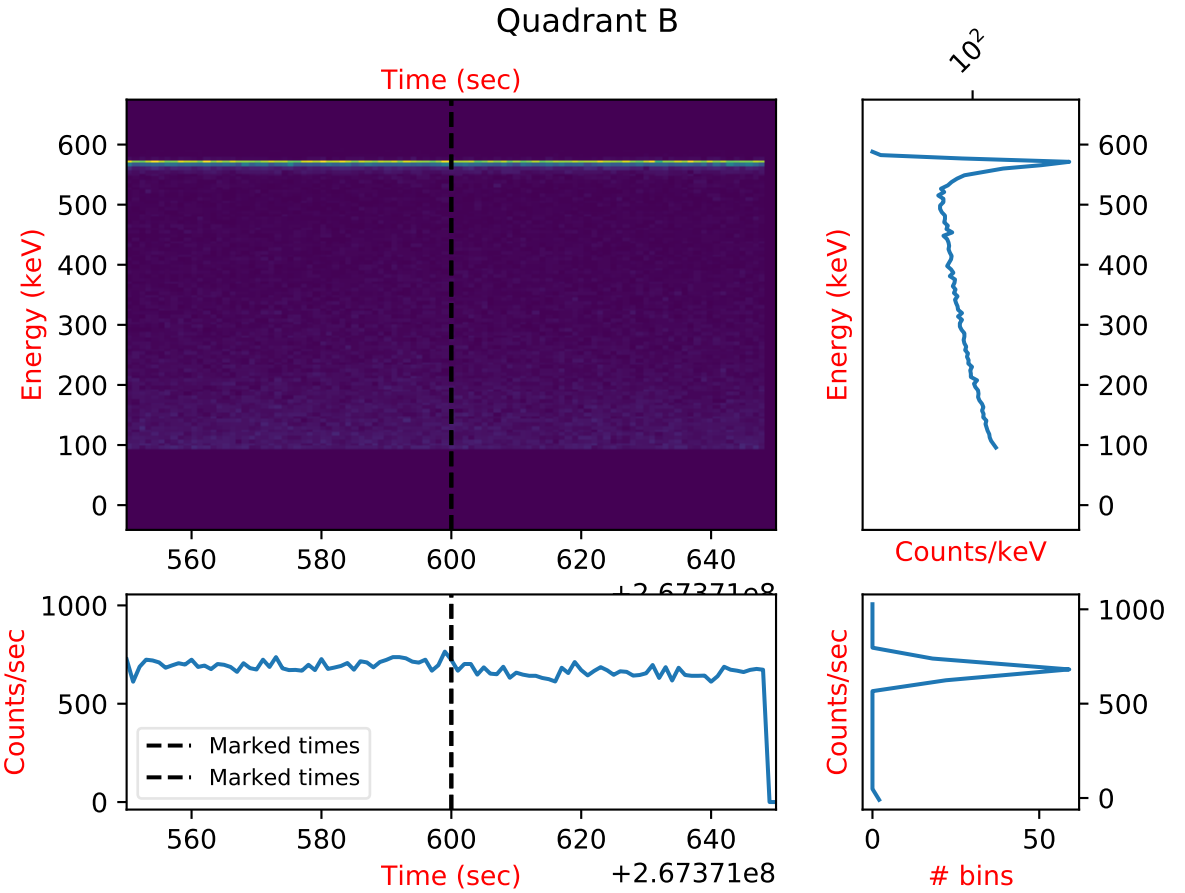

Quadrant A
Time (sec)
Energy (keV)
600
500
400
300
200
100
0
560
580
600
620
640
+2.67371e8
−50
0
Excess counts/keV
Excess counts/sec
250
0
−250
−500
Marked times
Marked times
Time (sec)
+2.67371e8
bins
50

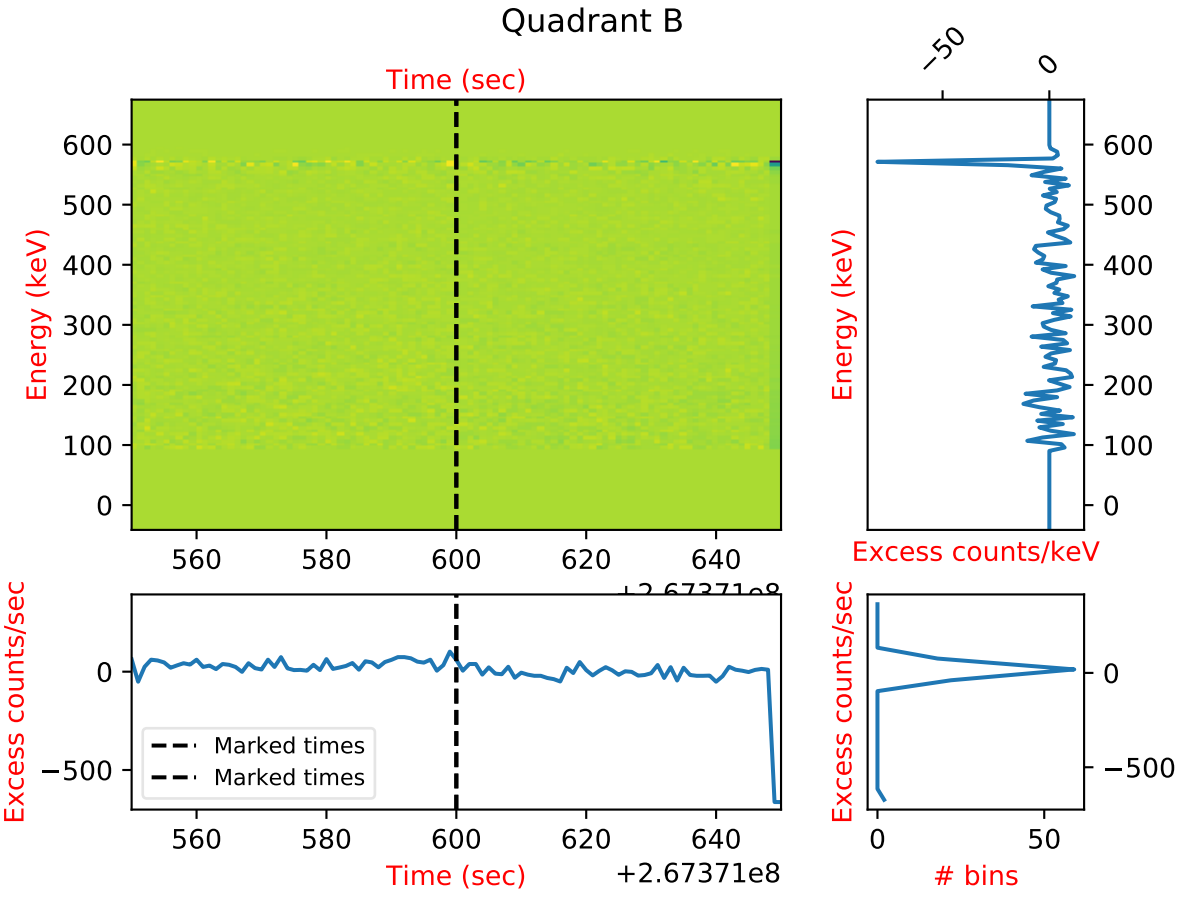

Quadrant A
Time (sec)
Energy (keV)
600
500
400
300
200
100
0
560
580
600
620
640
+2.67371e8
0
10
Strength/keV
Strength/sec
100
0
−100
−200
Marked times
Marked times
Time (sec)
+2.67371e8
bins
50

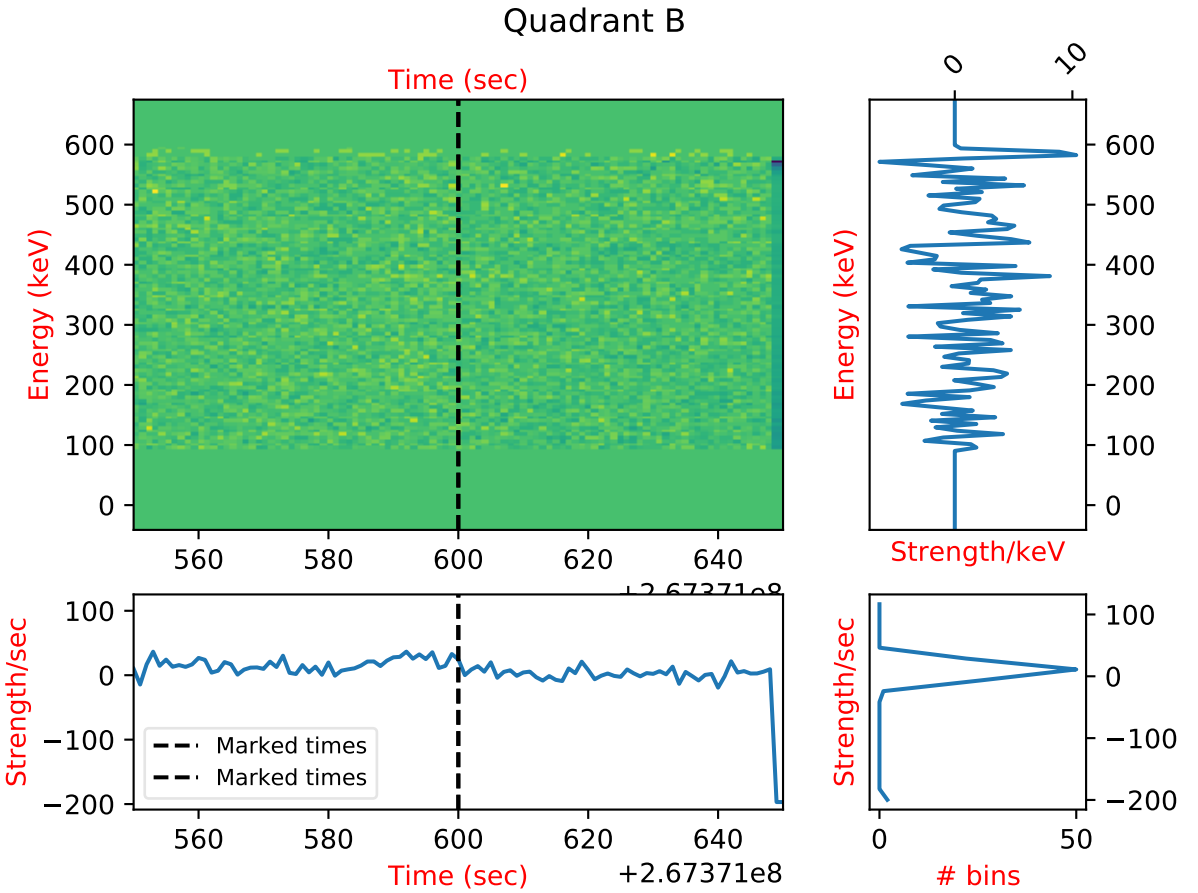

Quadrant A
Time (sec)
Energy (keV)
640
620
600
580
560
560
580
600
620
640
+2.67371e8
Counts/sec
400
200
0
Marked times
Marked times
Time (sec)
+2.67371e8
10^1
10^3
Counts/keV
bins
25

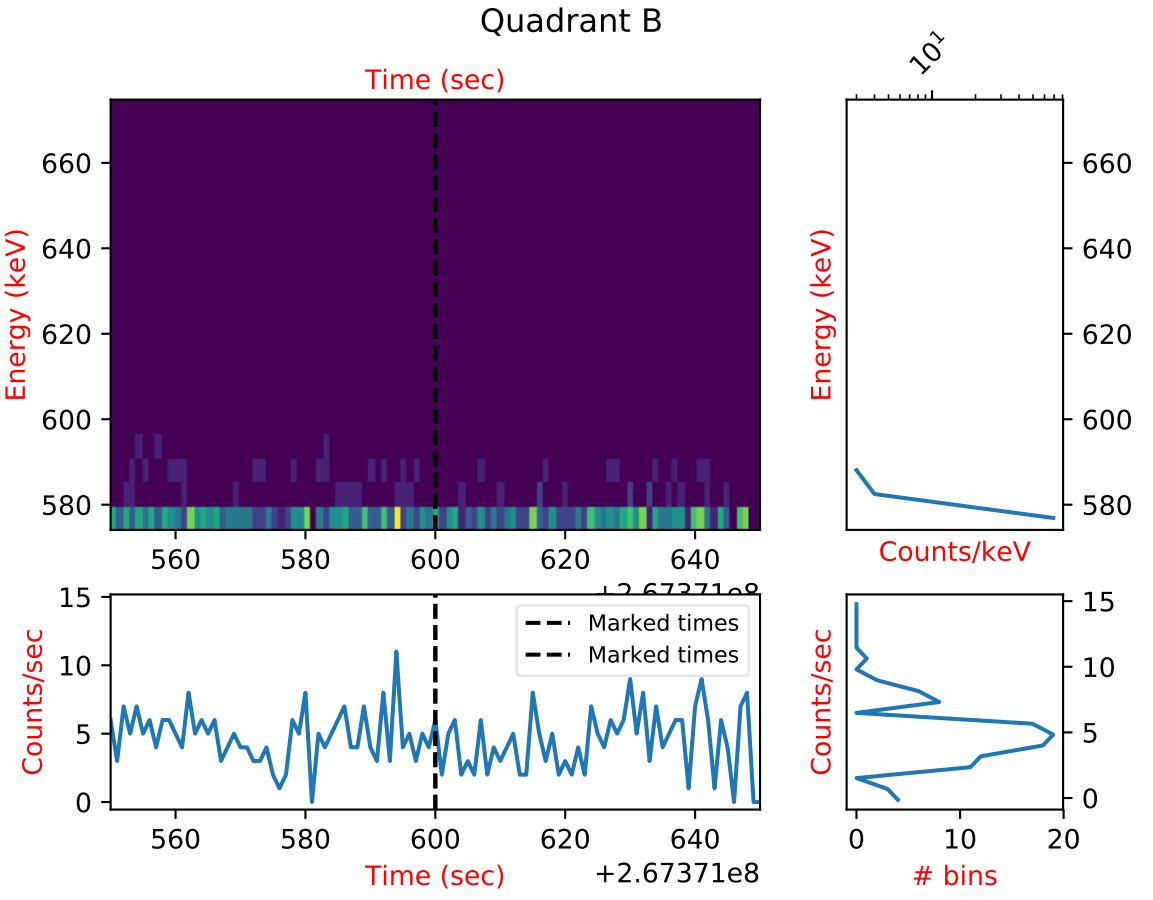

Quadrant A
Time (sec)
Energy (keV)
640
620
600
580
560
560
580
600
620
640
+2.67371e8
Strength/keV
−5
0
5
Strength/sec
20
0
−20
Marked times
Marked times
Time (sec)
+2.67371e8
bins

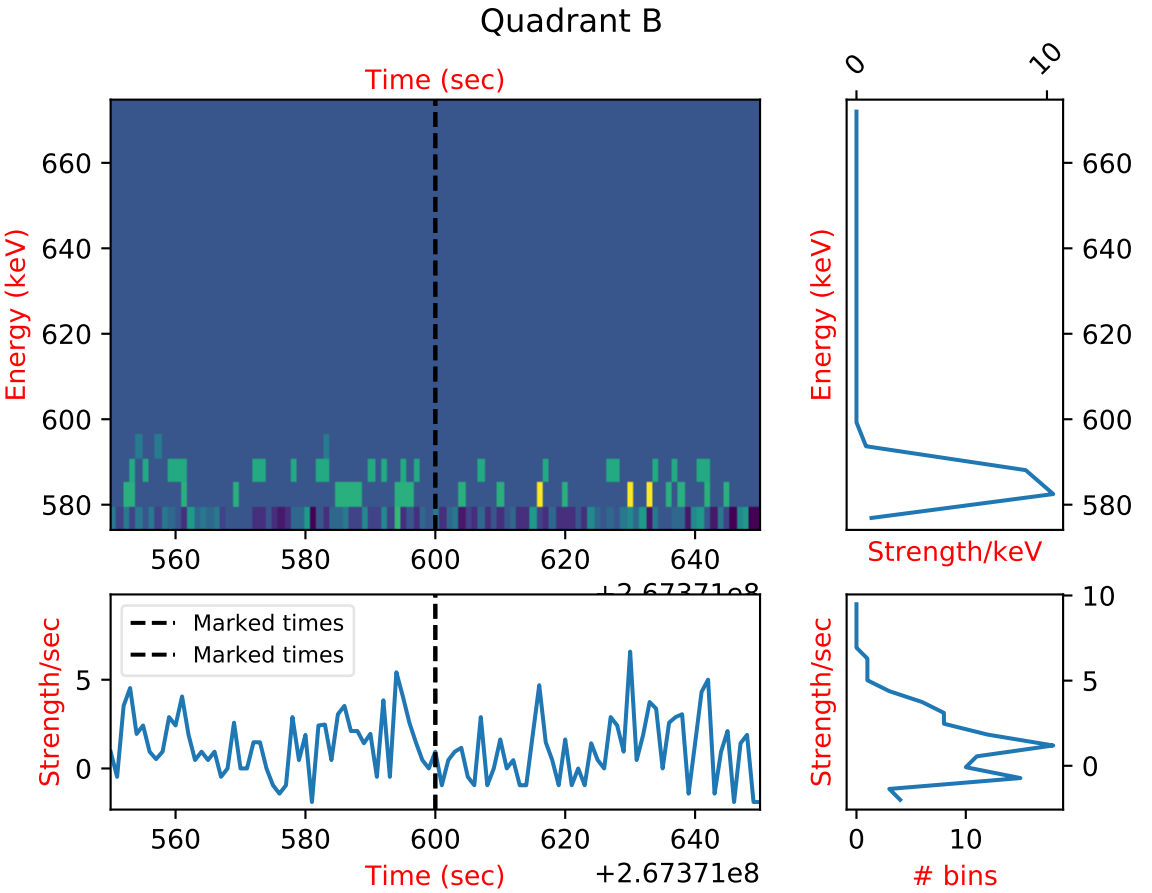

LC: Quad A
Counts/sec
1000
750
500
250
0
−250
−500
-56.7-658.9 keV lightcurve
Median spectrum subtracted lightcurve
Marked times
Marked times
560
580
600
620
640
+2.67371e8
Significance
20
0
−20
Mean spectrum subtracted + normalized lightcurve
Marked times
Marked times
560
580
600
620
640
Time (sec)
+2.67371e8

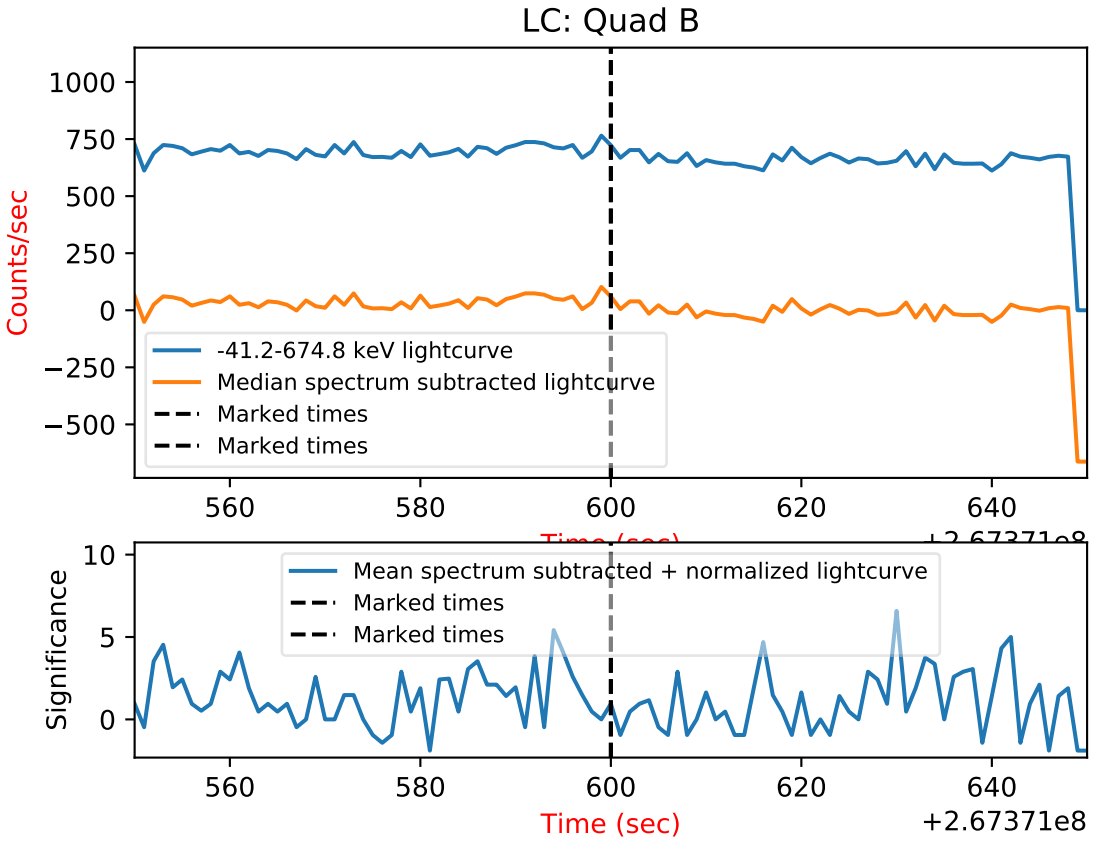

Quadrant B
Time (sec)
Energy (keV)
600
500
400
300
200
100
0
560
580
600
620
640
10^2
Counts/keV
Counts/sec
1000
500
0
Marked times
Marked times
Time (sec)
+2.67371e8
bins
50

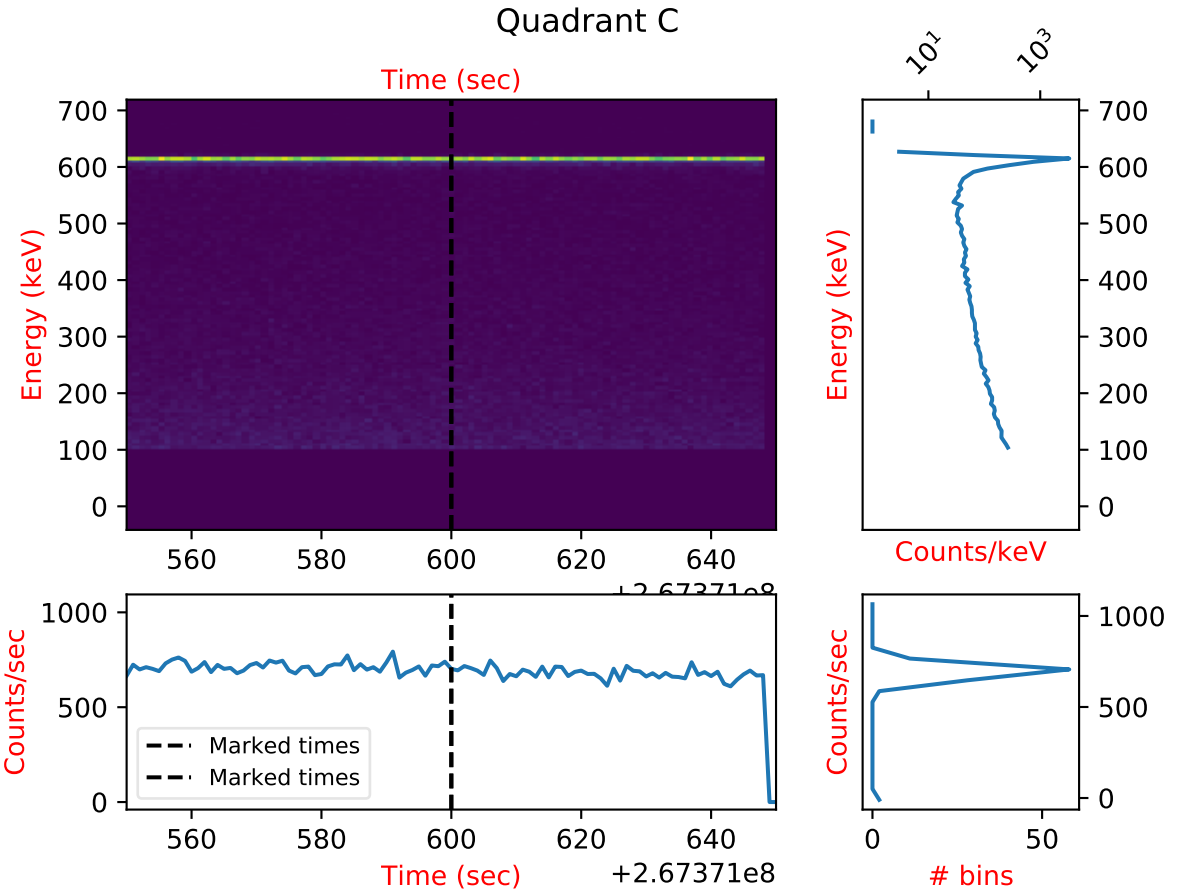

Quadrant B
Time (sec)
Energy (keV)
600
500
400
300
200
100
0
560
580
600
620
640
+2.67371e8
−50
0
Excess counts/keV
Excess counts/sec
0
−500
Marked times
Marked times
Time (sec)
+2.67371e8
bins
50

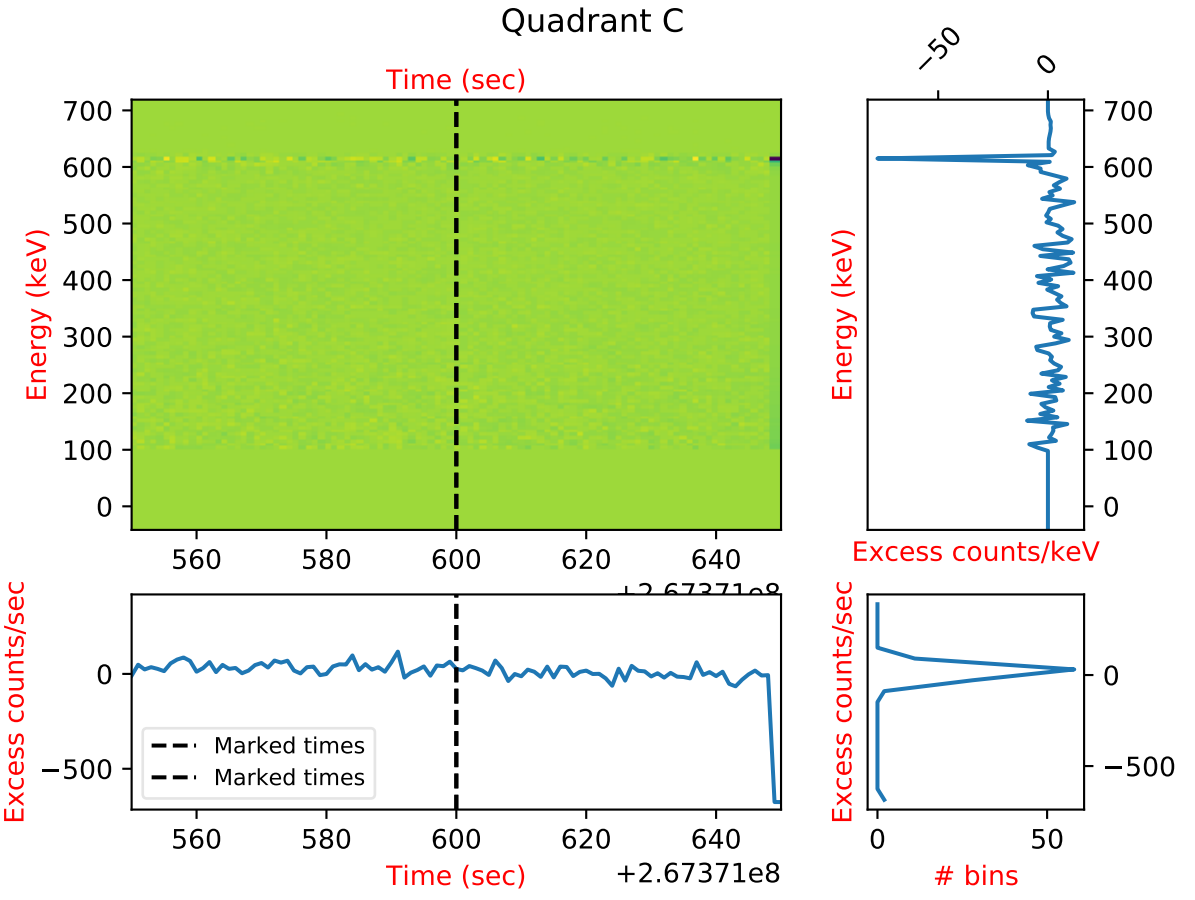

Quadrant B
Time (sec)
Energy (keV)
600
500
400
300
200
100
0
560
580
600
620
640
+2.67371e8
0
10
Strength/keV
Strength/sec
100
0
−100
−200
Marked times
Marked times
Time (sec)
+2.67371e8
bins
50

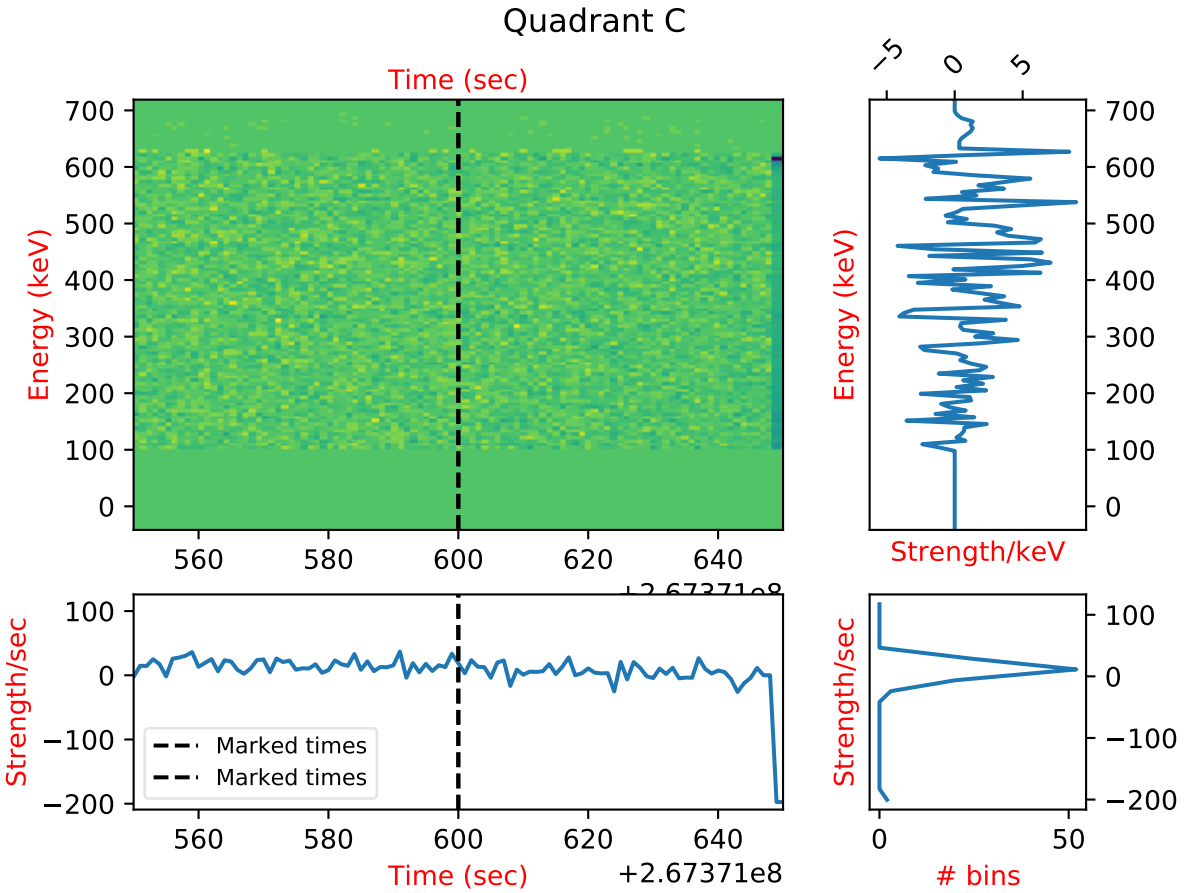

Quadrant B
Time (sec)
Energy (keV)
660
640
620
600
580
560
580
600
620
640
+2.67371e8
Counts/sec
15
10
5
0
Marked times
Marked times
Time (sec)
+2.67371e8
10^1
Counts/keV
bins
0
10
20

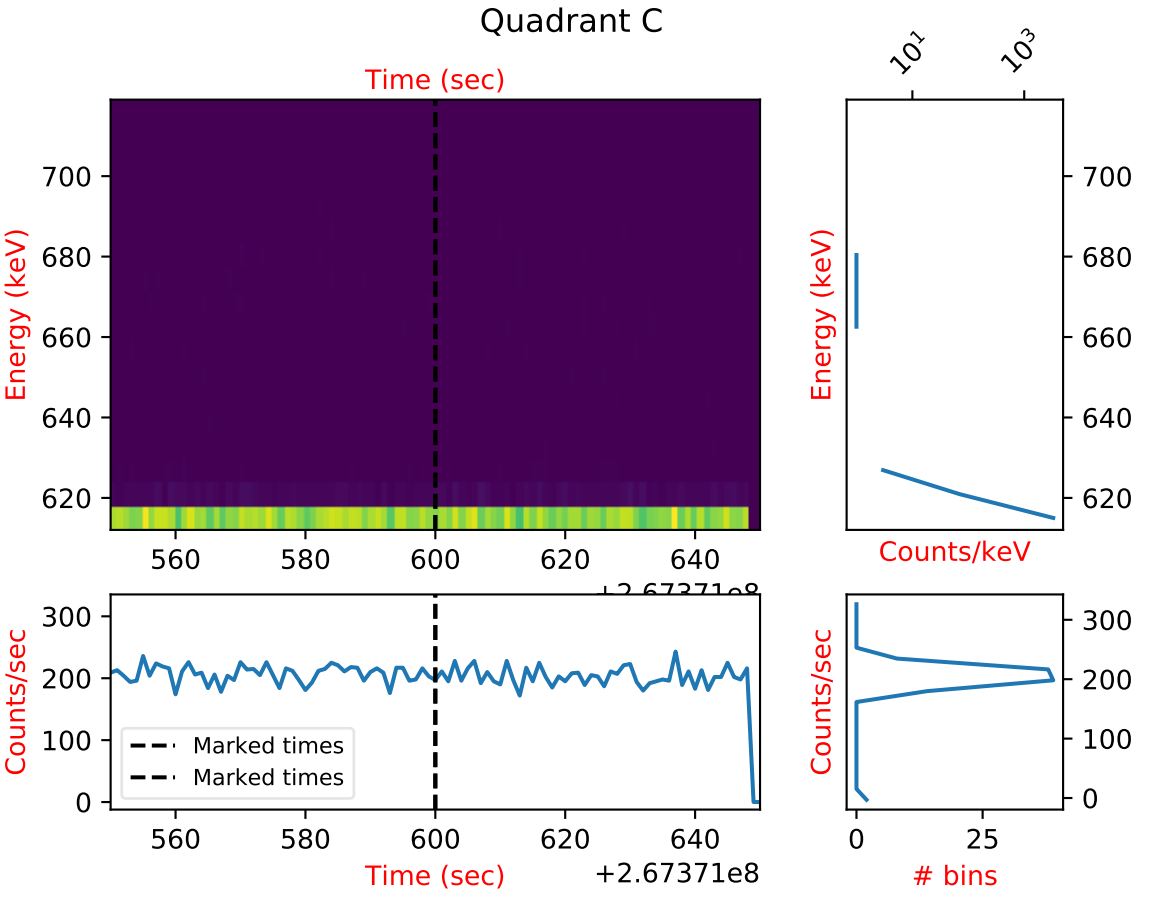

Quadrant B
Time (sec)
Energy (keV)
660
640
620
600
580
560
580
600
620
640
Strength/keV
0
10
Marked times
Marked times
Strength/sec
5
0
Time (sec)
+2.67371e8
bins

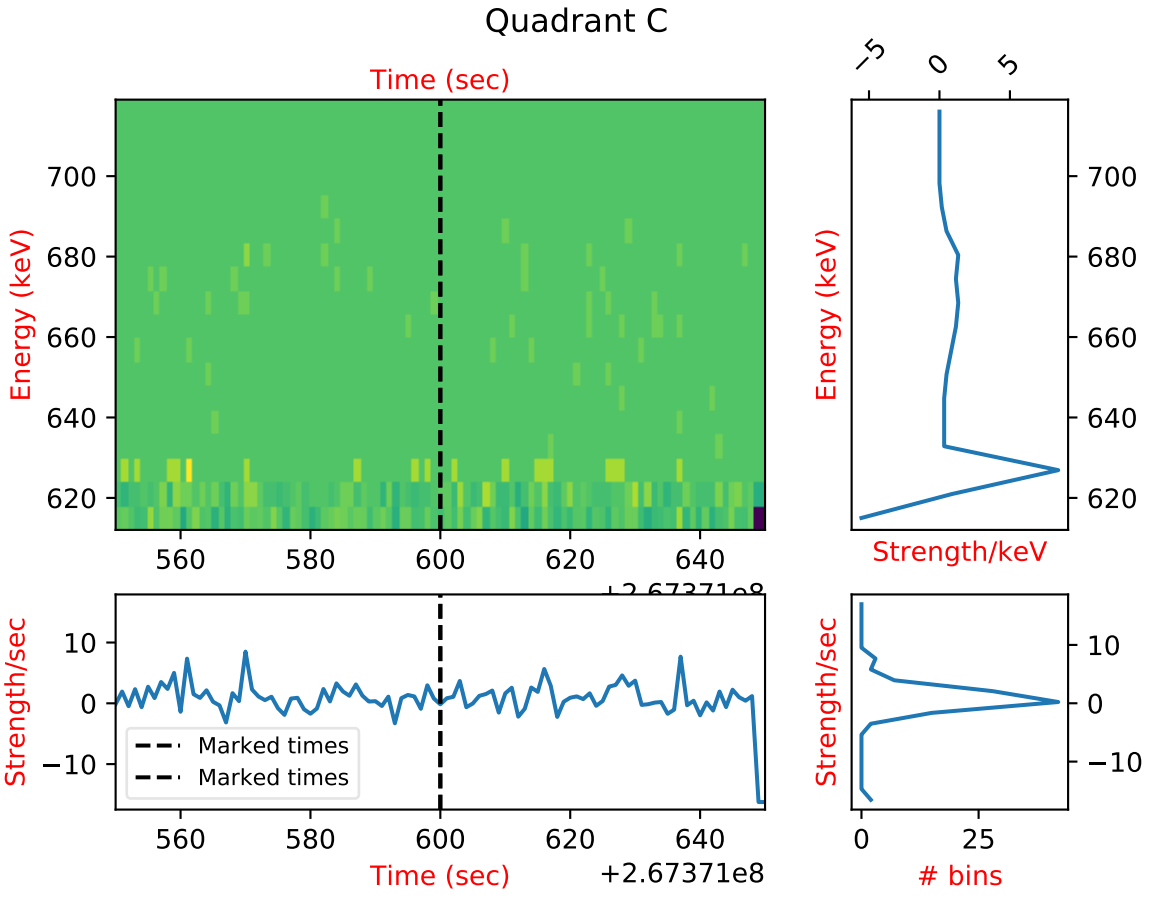

LC: Quad B
Counts/sec
1000
750
500
250
0
−250
−500
-41.2-674.8 keV lightcurve
Median spectrum subtracted lightcurve
Marked times
Marked times
560
580
600
620
640
Significance
10
5
0
Mean spectrum subtracted + normalized lightcurve
Marked times
Marked times
Time (sec)
+2.67371e8

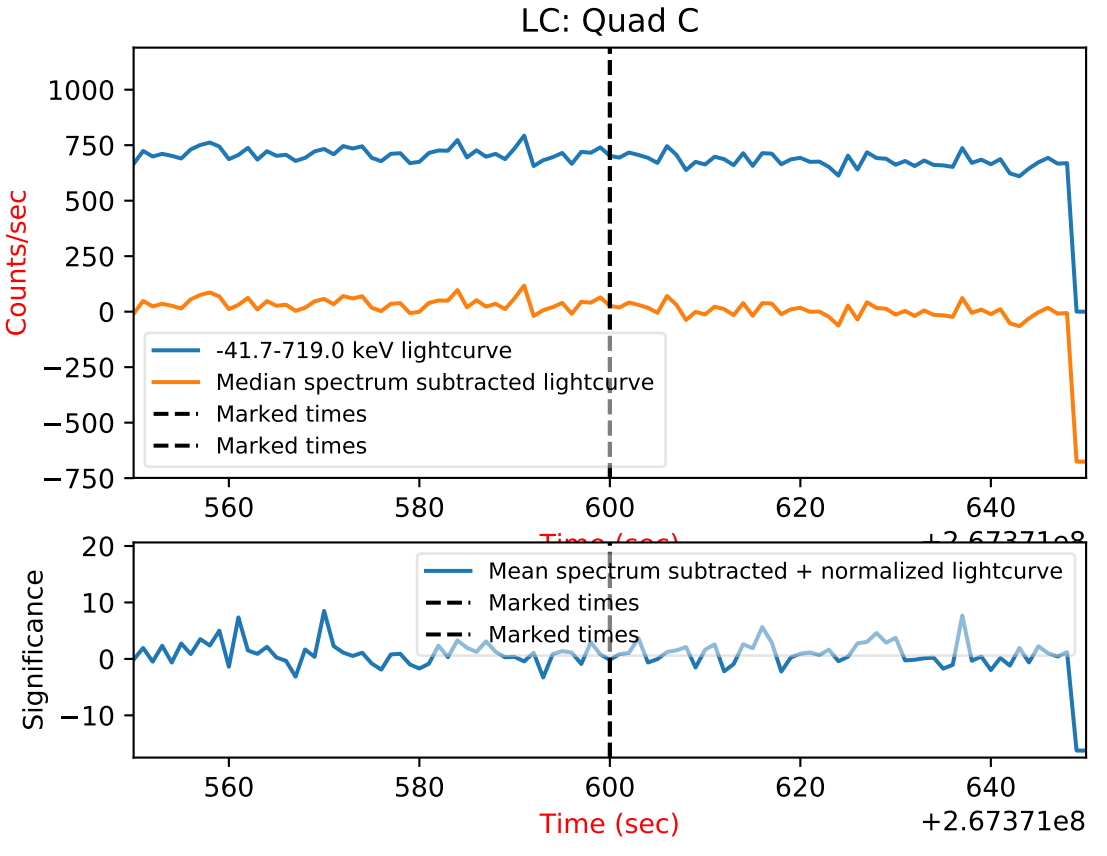

Quadrant C
Time (sec)
Energy (keV)
700
600
500
400
300
200
100
0
560
580
600
620
640
+2.67371e8
10^1
10^3
Counts/keV
Counts/sec
1000
500
0
Marked times
Marked times
Time (sec)
+2.67371e8
bins
50

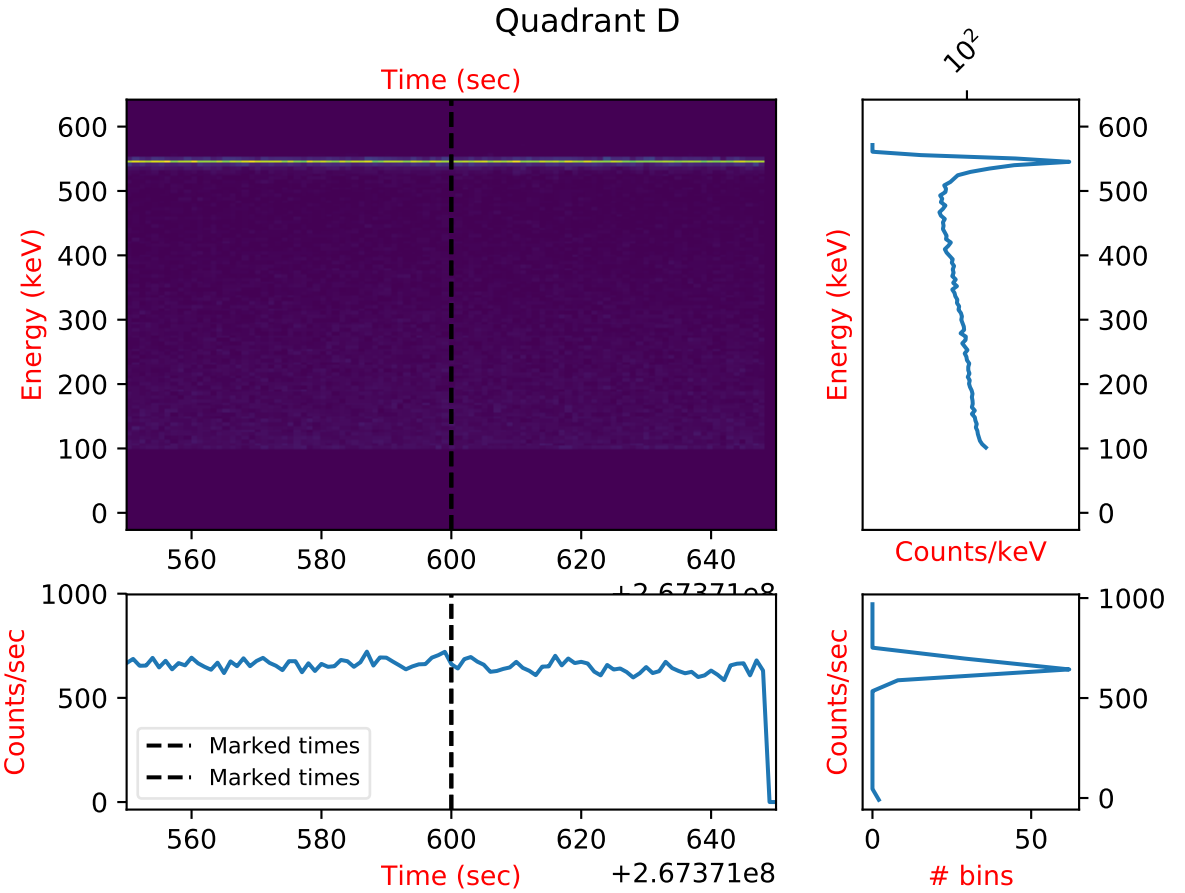

Quadrant C
Time (sec)
Energy (keV)
700
600
500
400
300
200
100
0
560
580
600
620
640
+2.67371e8
−50
0
Excess counts/keV
Excess counts/sec
0
−500
Marked times
Marked times
Time (sec)
+2.67371e8
bins
50

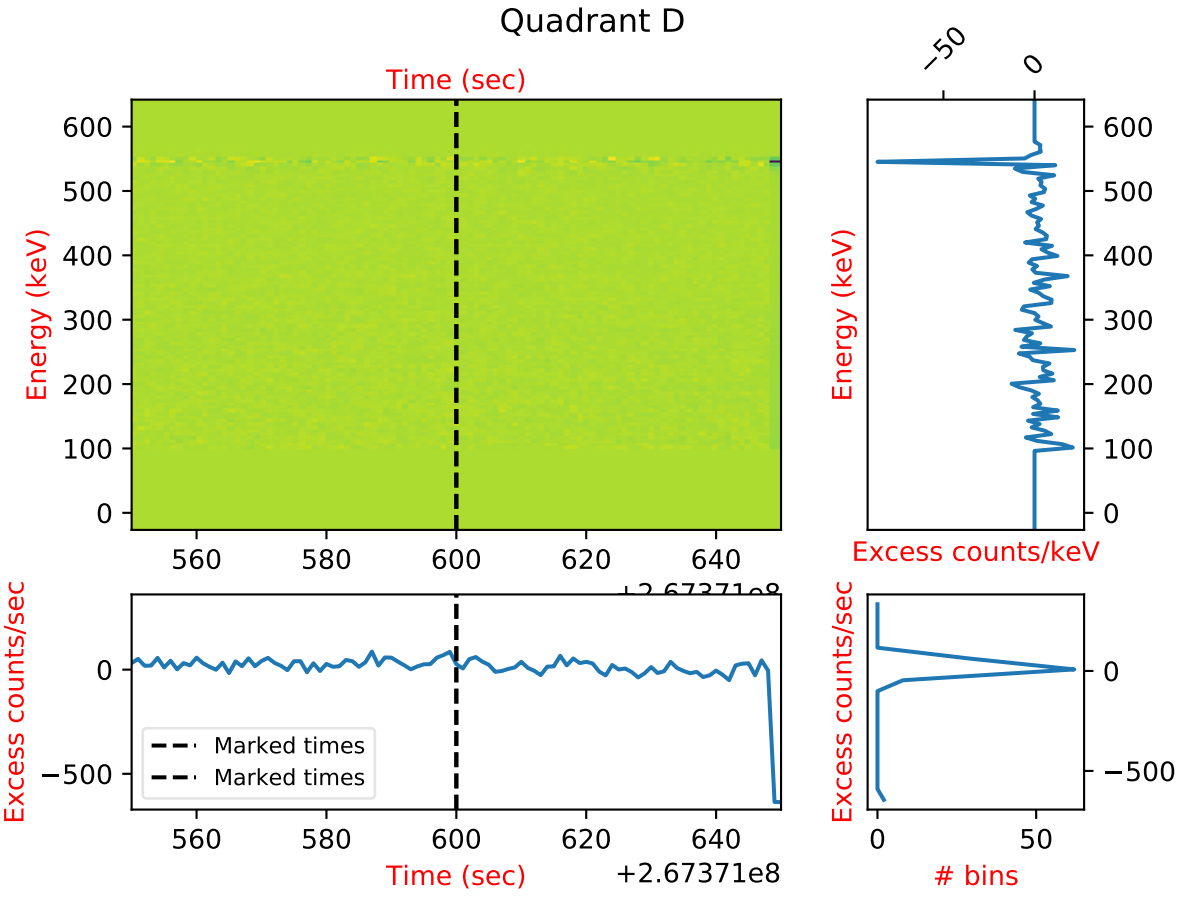

Quadrant C
Time (sec)
Energy (keV)
700
600
500
400
300
200
100
0
560
580
600
620
640
+2.67371e8
Strength/keV
−5
0
5
Strength/sec
100
0
−100
−200
Marked times
Marked times
Time (sec)
+2.67371e8
bins
50

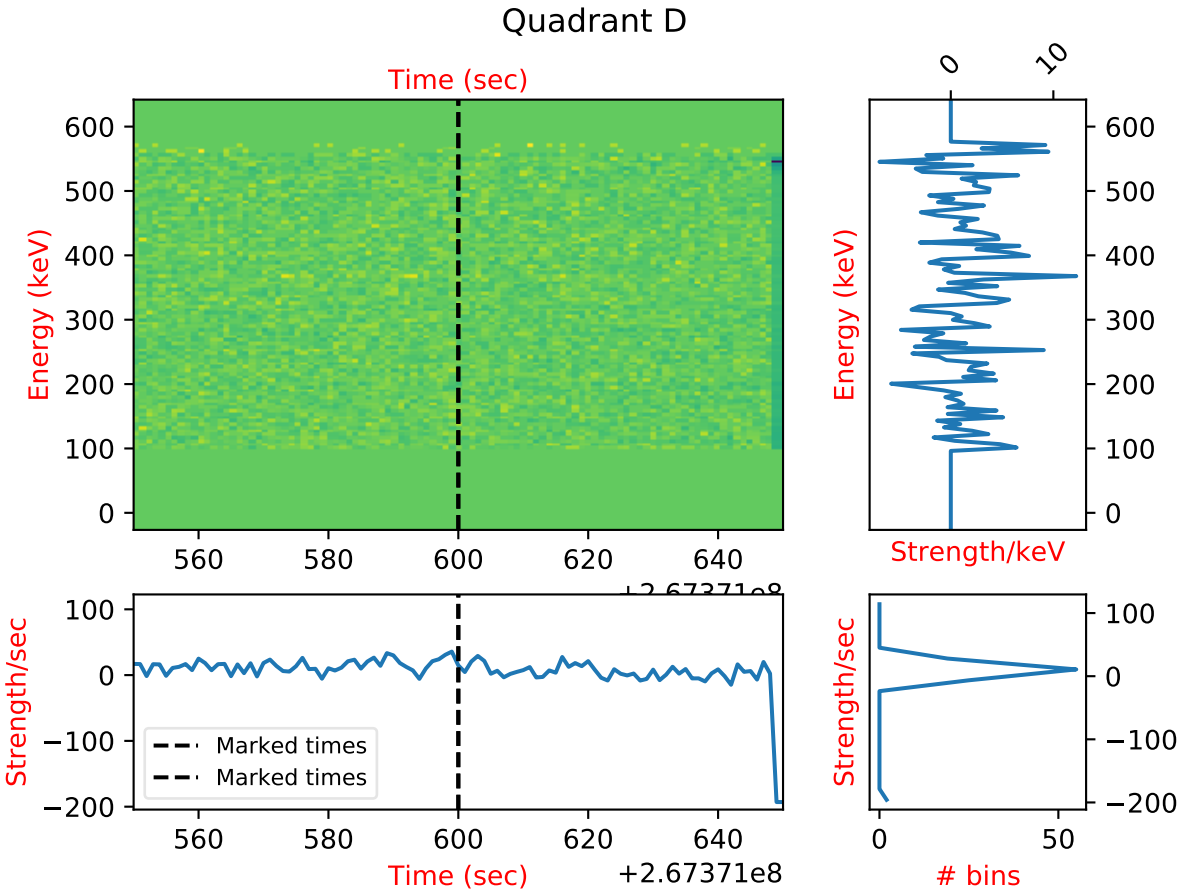

Quadrant C
Time (sec)
Energy (keV)
700
680
660
640
620
560
580
600
620
640
+2.67371e8
Counts/keV
10^1
10^3
Counts/sec
300
200
100
0
Marked times
Marked times
Time (sec)
+2.67371e8
bins
25

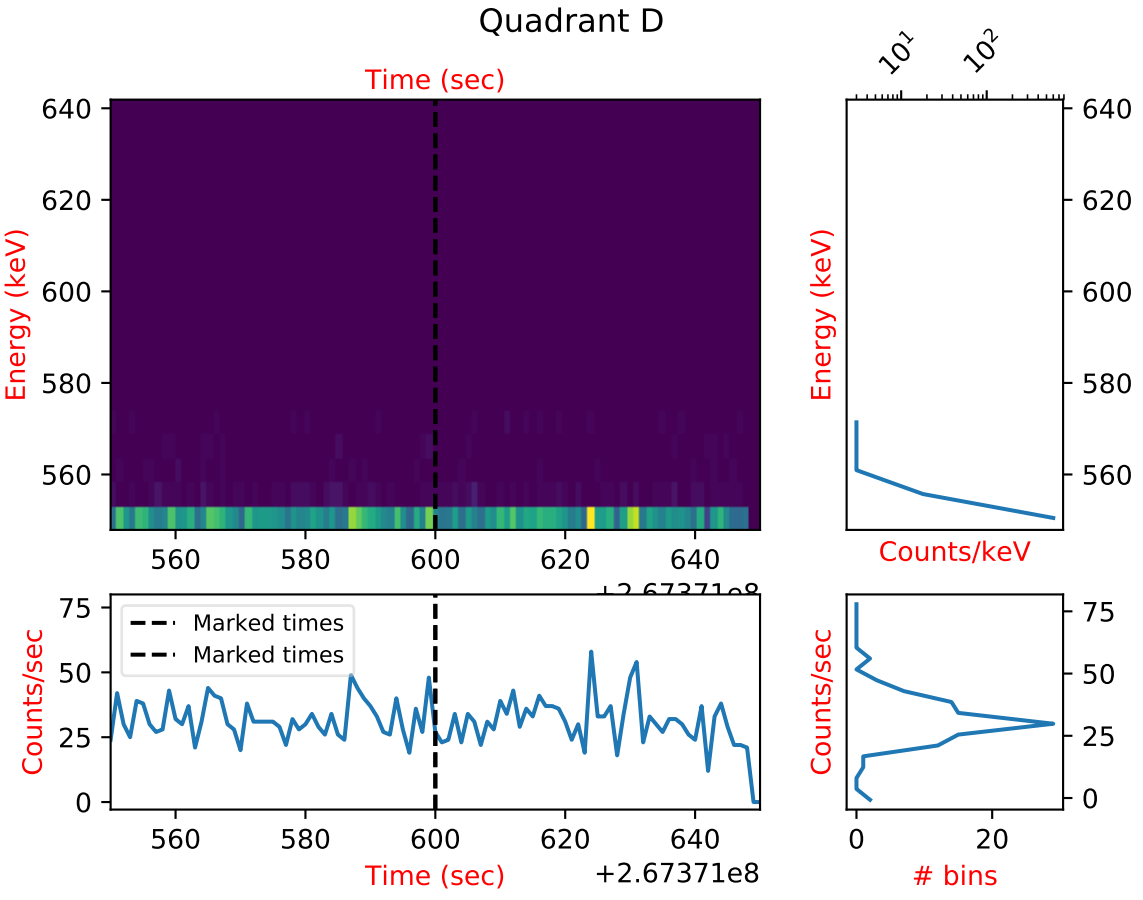

Quadrant C
Time (sec)
Energy (keV)
700
680
660
640
620
560
580
600
620
640
+2.67371e8
Strength/keV
−5
0
5
Strength/sec
10
0
−10
Marked times
Marked times
Time (sec)
+2.67371e8
bins
0
25

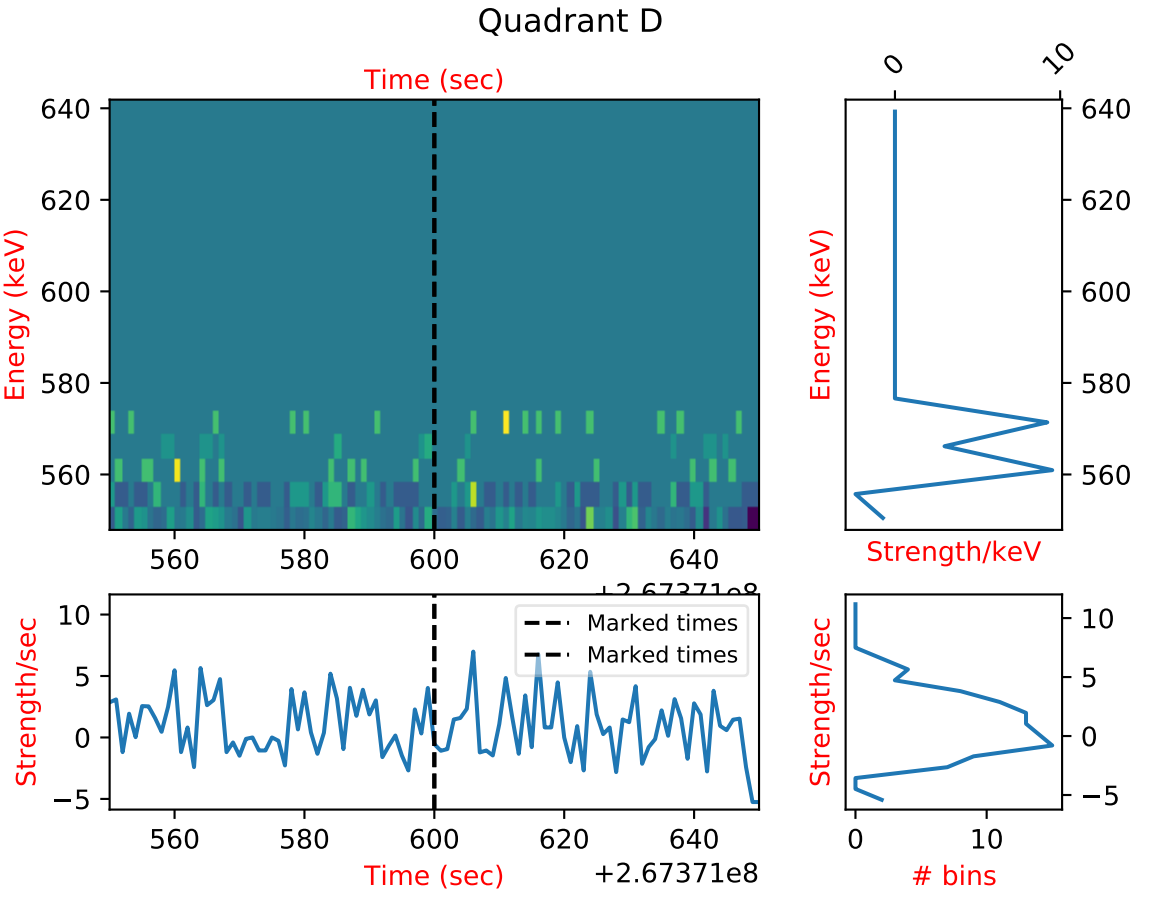

LC: Quad C
Counts/sec
1000
750
500
250
0
−250
−500
−750
-41.7-719.0 keV lightcurve
Median spectrum subtracted lightcurve
Marked times
Marked times
560
580
600
620
640
Significance
20
10
0
−10
Mean spectrum subtracted + normalized lightcurve
Marked times
Marked times
Time (sec)
+2.67371e8

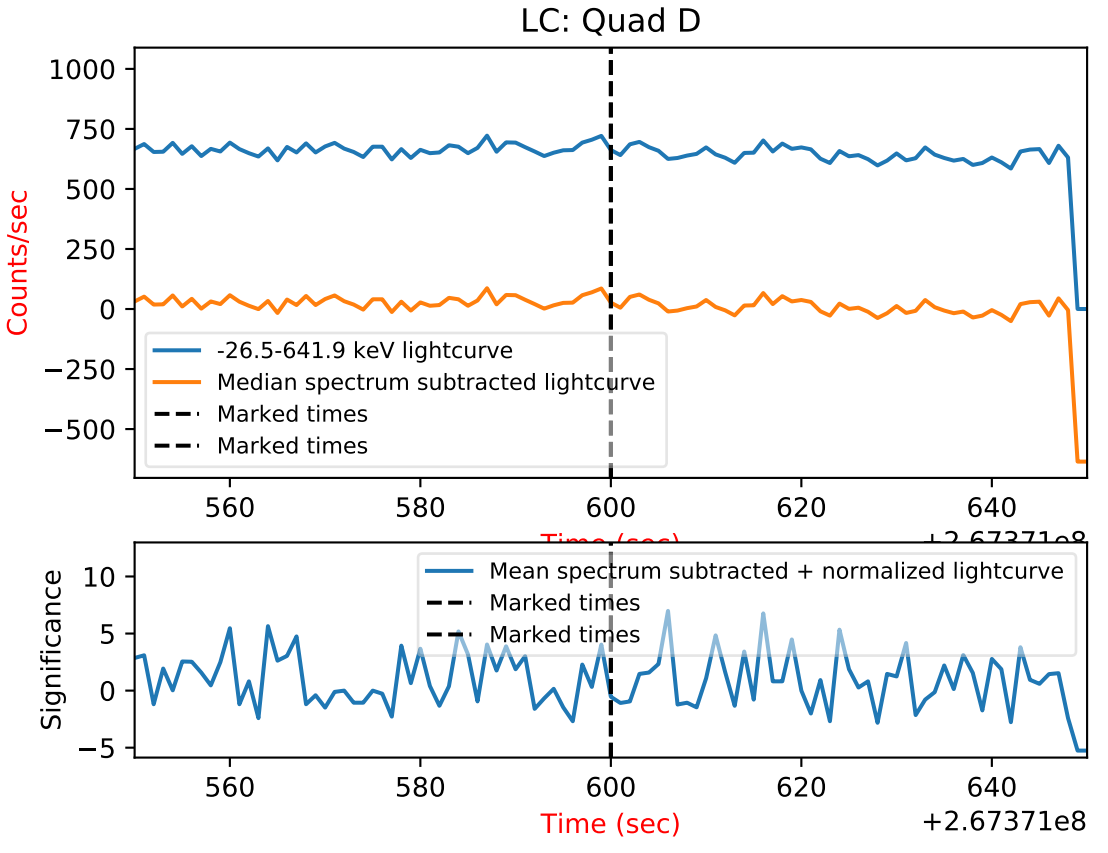

Quadrant D
Time (sec)
Energy (keV)
600
500
400
300
200
100
0
560
580
600
620
640
10^2
Counts/keV
Counts/sec
1000
500
0
Marked times
Marked times
Time (sec)
+2.67371e8
bins
50

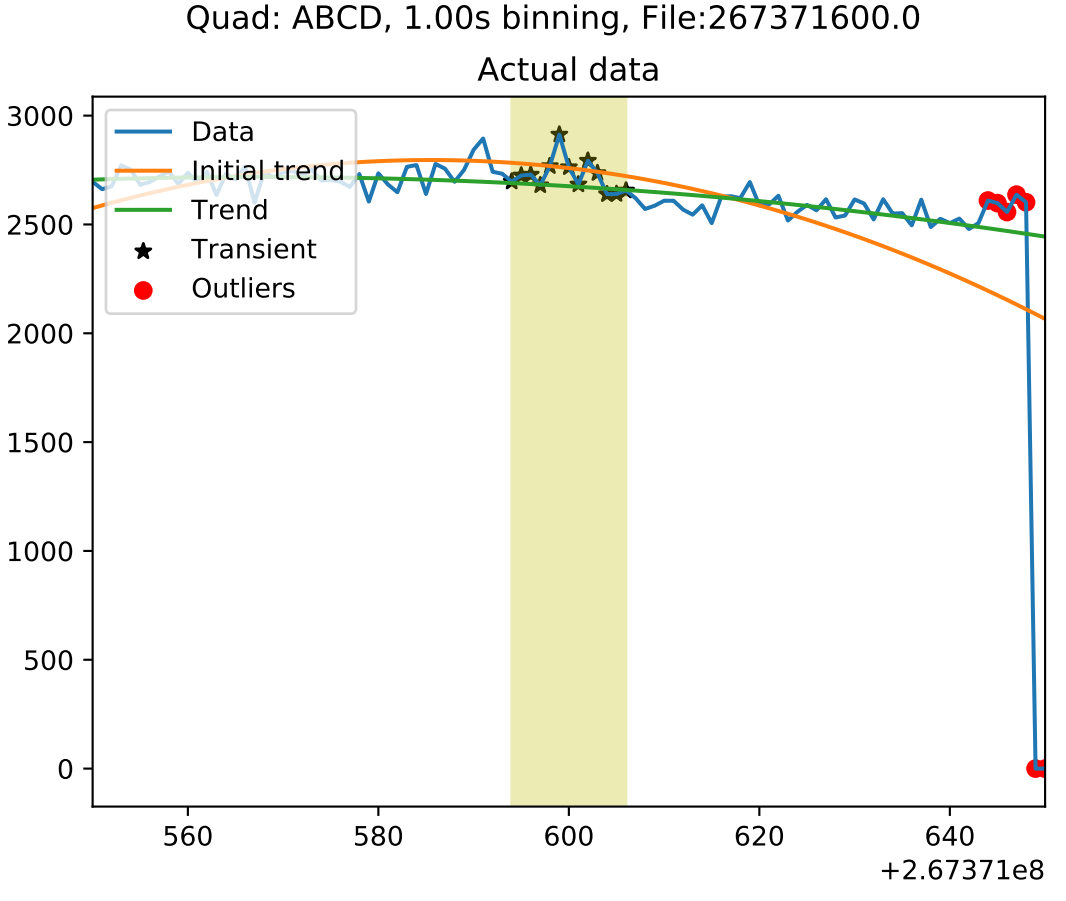

Quadrant D
Time (sec)
Energy (keV)
600
500
400
300
200
100
0
560
580
600
620
640
+2.67371e8
−50
0
Excess counts/keV
Excess counts/sec
0
−500
Marked times
Marked times
Time (sec)
+2.67371e8
bins
50

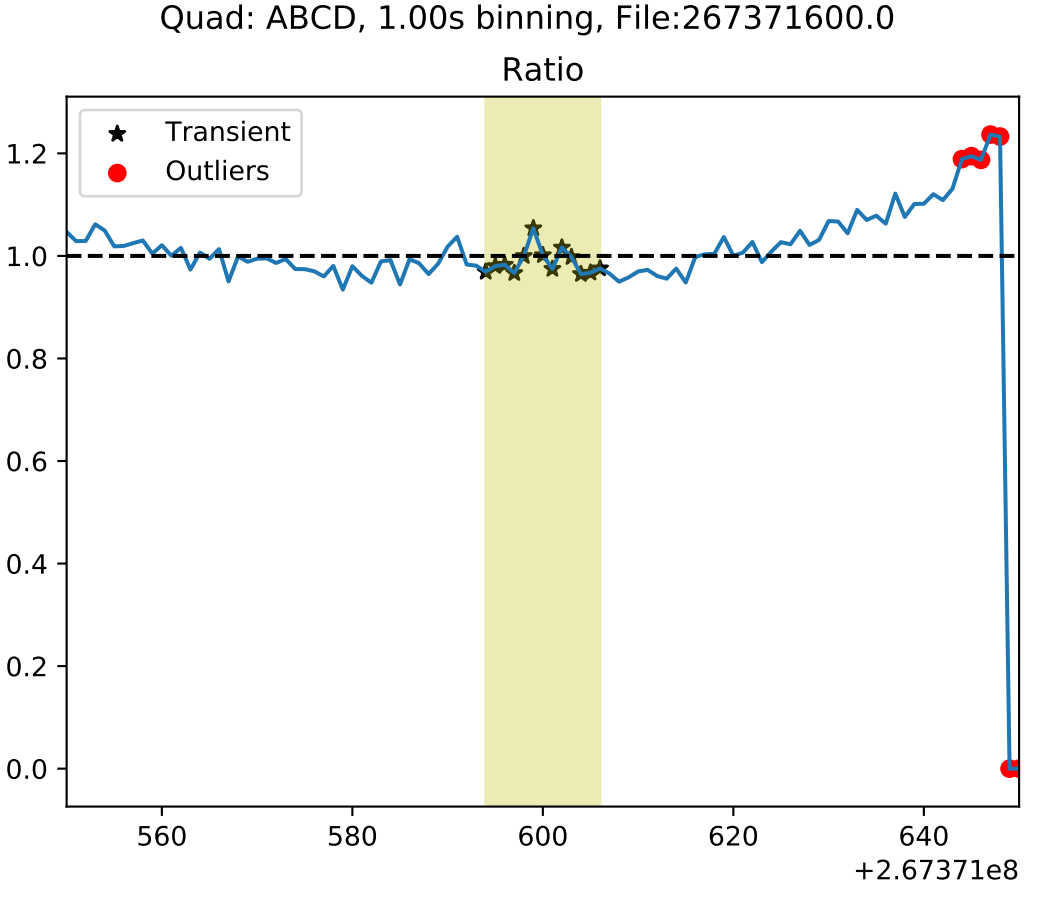

Quadrant D
Time (sec)
Energy (keV)
600
500
400
300
200
100
0
560
580
600
620
640
+2.67371e8
0
10
Strength/keV
Strength/sec
100
0
−100
−200
Marked times
Marked times
Time (sec)
+2.67371e8
bins
50

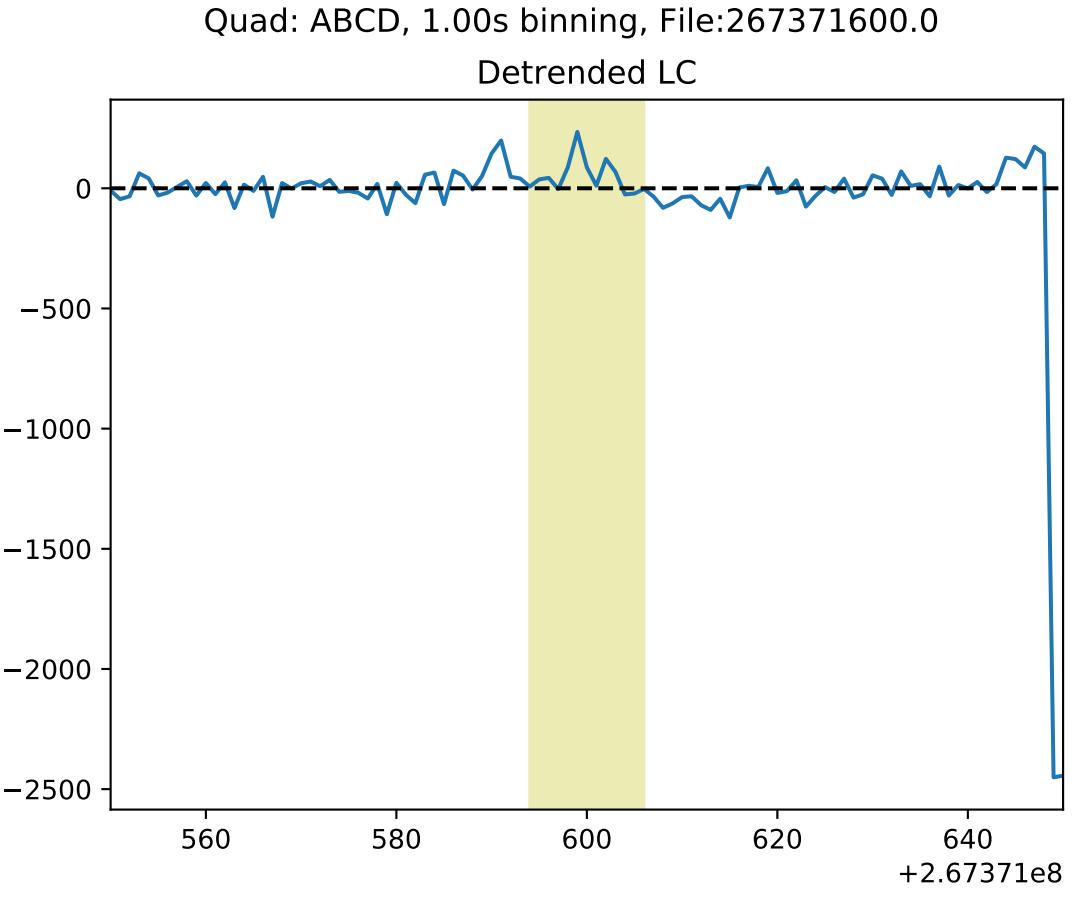

Quadrant D
Time (sec)
Energy (keV)
640
620
600
580
560
560
580
600
620
640
+2.67371e8
Counts/keV
10^1
10^2
Counts/sec
75
50
25
0
Marked times
Marked times
Time (sec)
+2.67371e8
bins
0
20

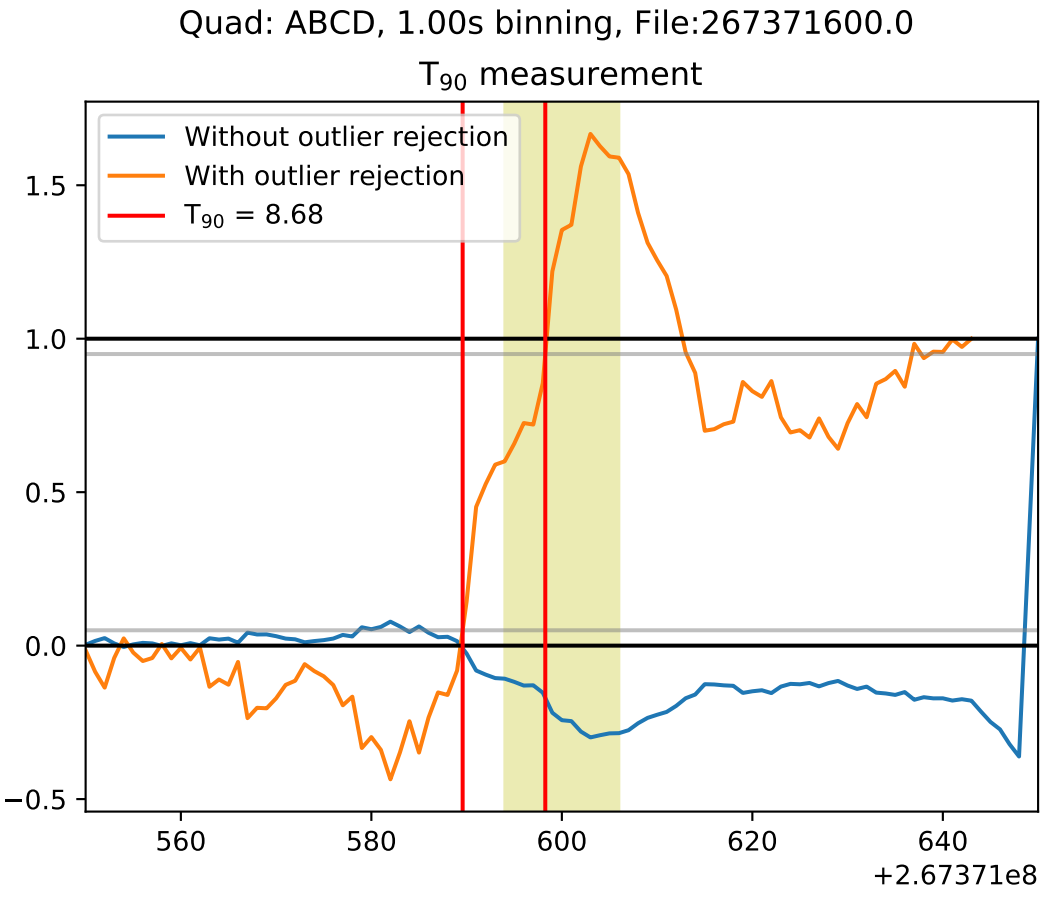

Quadrant D
Time (sec)
Energy (keV)
640
620
600
580
560
560
580
600
620
640
+2.67371e8
Strength/keV
0
10
Strength/sec
10
5
0
−5
Marked times
Marked times
Time (sec)
+2.67371e8
bins

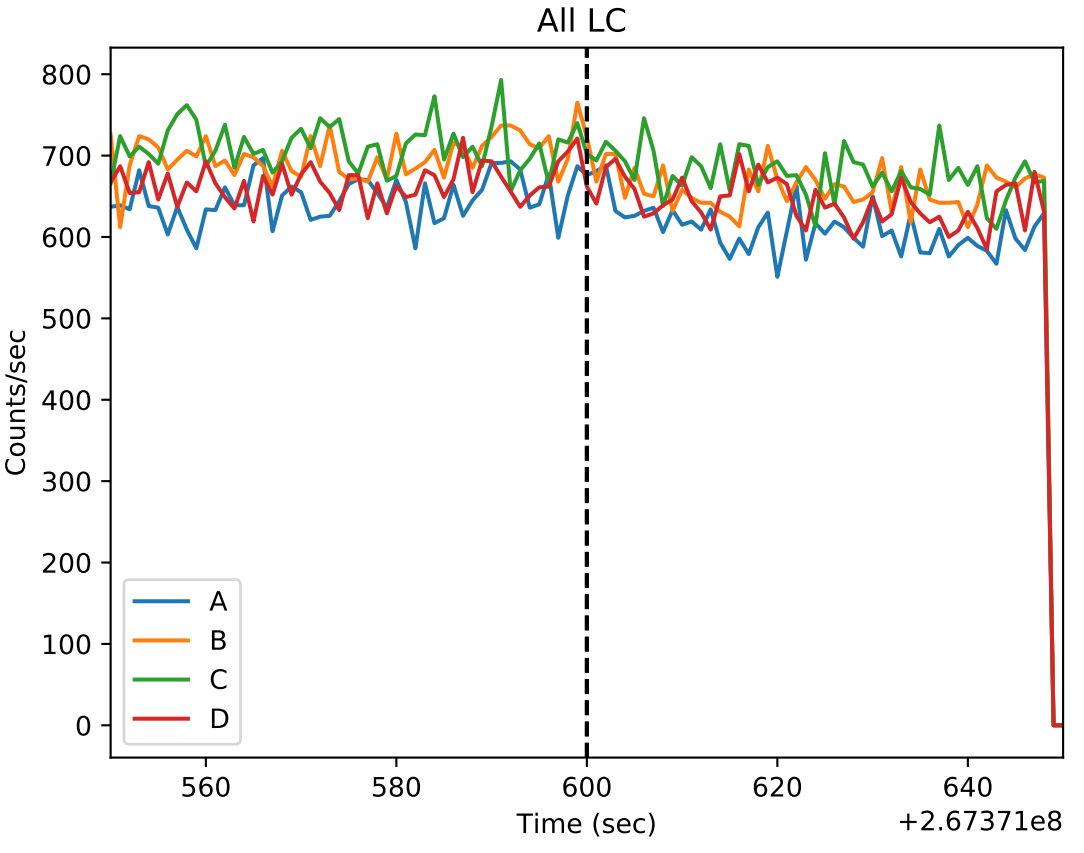

LC: Quad D
Counts/sec
1000
750
500
250
0
−250
−500
-26.5-641.9 keV lightcurve
Median spectrum subtracted lightcurve
Marked times
Marked times
560
580
600
620
640
Significance
10
5
0
−5
Mean spectrum subtracted + normalized lightcurve
Marked times
Marked times
Time (sec)
+2.67371e8


Quad: ABCD, 1.00s binning, File:267371600.0
Actual data
Data
Initial trend
Trend
Transient
Outliers
3000
2500
2000
1500
1000
500
0
560
580
600
620
640
+2.67371e8


Quad: ABCD, 1.00s binning, File:267371600.0
Ratio
Transient
Outliers
1.2
1.0
0.8
0.6
0.4
0.2
0.0
560
580
600
620
640
+2.67371e8


Quad: ABCD, 1.00s binning, File:267371600.0
Detrended LC
0
−500
−1000
−1500
−2000
−2500
560
580
600
620
640
+2.67371e8


Quad: ABCD, 1.00s binning, File:267371600.0
T90 measurement
Without outlier rejection
With outlier rejection
T90 = 8.68
1.5
1.0
0.5
0.0
−0.5
560
580
600
620
640
+2.67371e8


All LC
Counts/sec
Time (sec)
+2.67371e8
A
B
C
D
0
100
200
300
400
500
600
700
800
560
580
600
620
640