

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 770 - L2 Version 5
Chandra X-Ray Center

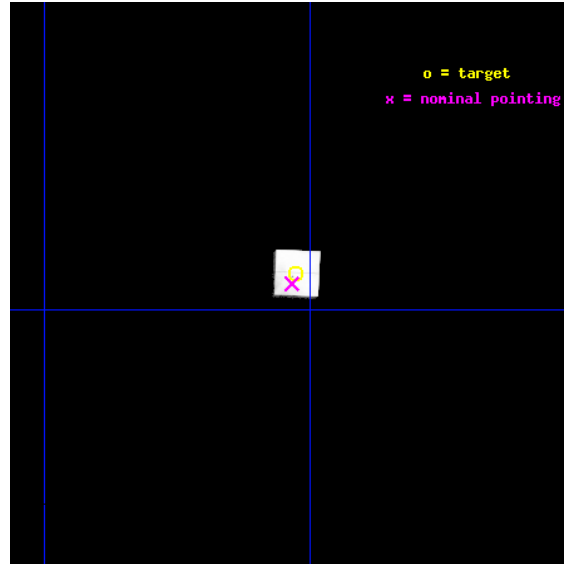
L2 Processing Date : Aug 24 2012

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1 Front

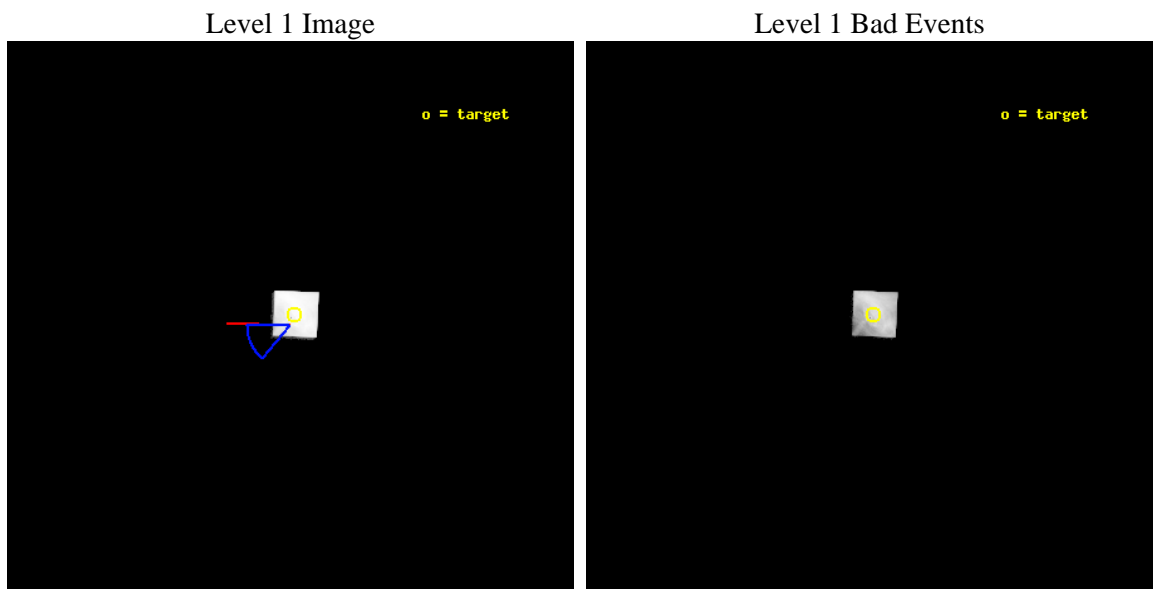
seq_num	500066	Sequence number
obs_id	770	Observation id
title	ACIS/HST OBSERVATIONS OF RELATIVISTIC WISPS IN THE CRAB NEBULA	Pro
observer	PROF. JEFF HESTER	Principal investigator
object	CRAB NEBULA	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	83.631542	Observer's specified target RA [deg]
dec_targ	22.015664	Observer's specified target Dec [deg]
ra_nom	83.633484419252	Nominal RA [deg]
dec_nom	22.011329651266	Nominal Dec [deg]
roll_nom	272.6285852218	Nominal Roll [deg]
revision	5	Processing version of data
ontime	1544.1281694174	Sum of GTIs [s]
livetime	1427.000008703	Livetime [s]
ontime7	1544.1281694174	Sum of GTIs [s]
l2events	1850996	Number of level 2 events



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

obi_num	0	Obi number	sched_exp_time	6100.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	1544.1281694174	Sum of GTIs [s]
caldsver	4.5.1.1	 	ontime7	1544.1281694174	Sum of GTIs [s]
date	2012-08-24T14:48:36	Date and time of file creation	l1events	2771863	Number of level 1 events
revision	5	Processing version of data			

2.1.3 Events

	ccd 7
level 1 events	2771863
rejected events	893774
rejected %	32%

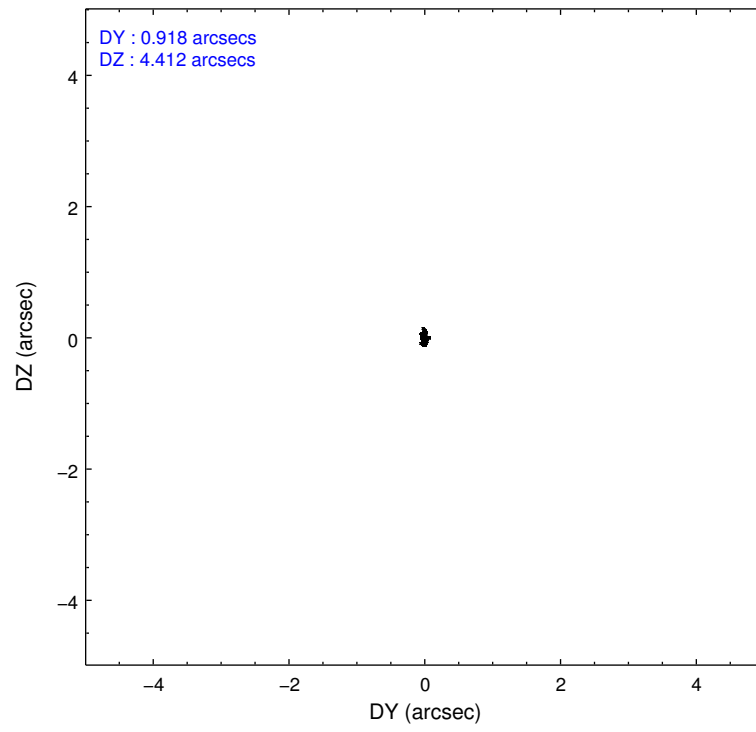
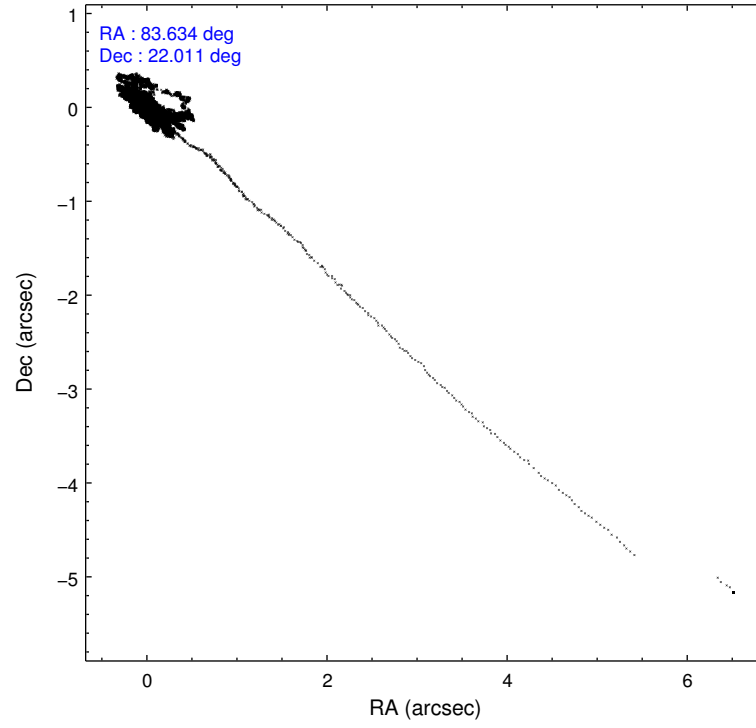
	ccd 7
grade 0 events	336660
	12%
grade 1 events	78072
	2%
grade 2 events	497969
	17%
grade 3 events	219889
	7%
grade 4 events	216400
	7%
grade 5 events	225315
	8%
grade 6 events	702798
	25%
grade 7 events	494760
	17%

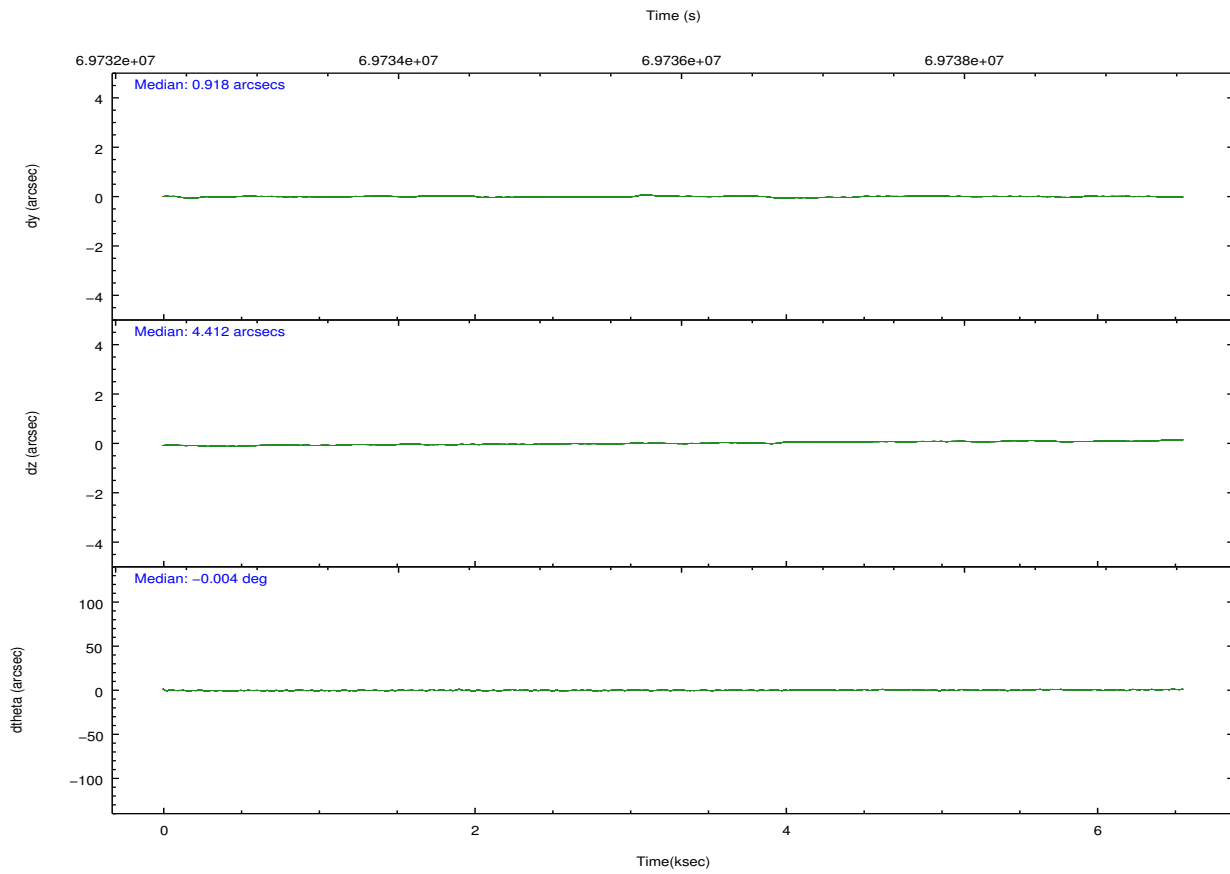
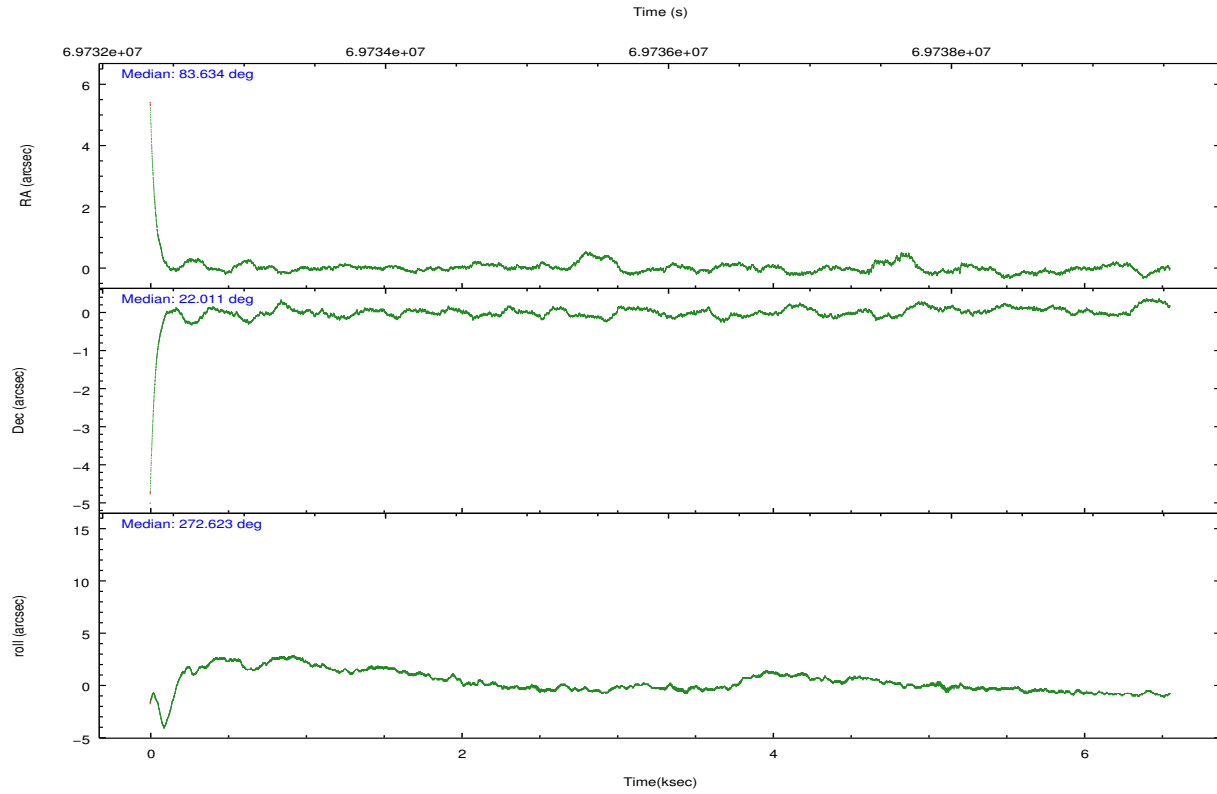
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-7	ACIS-7
Grating	NONE	NONE
Data mode	GRADED	GRADED
Observation mode	POINTING	POINTING
[deg] Pointing RA	83.617458	83.63348441925179
[deg] Pointing Dec	22.034446	22.01132965126619
[deg] Pointing Roll	272.477965	272.6285852218048
[deg] Roll angle	245.000000	245.000000
[deg] Roll tolerance	25.000000	25.000000
Roll constraint allows 180D rotation	N	N
[s] Window start time (MET)	69552064.184000	69552064.184000
[s] Window stop time (MET)	69811264.184000	69811264.184000
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-179.132523	-179.1374222902453
[mm] SIM translation stage offset	-11	-10.99510029276249
[s] Observation start time (MET)	69733111.184000	69731897.781839
Observation start date	2000-03-18T02:17:27	2000-03-18T01:58:17
[s] Observation end time (MET)	69739211.184000	69739883.044631
Observation end date	2000-03-18T03:59:07	2000-03-18T04:11:23
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	CUSTOM	CUSTOM
Subarray start row	11	11
Subarray row count	140	140
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	0.5

2.3 Aspect



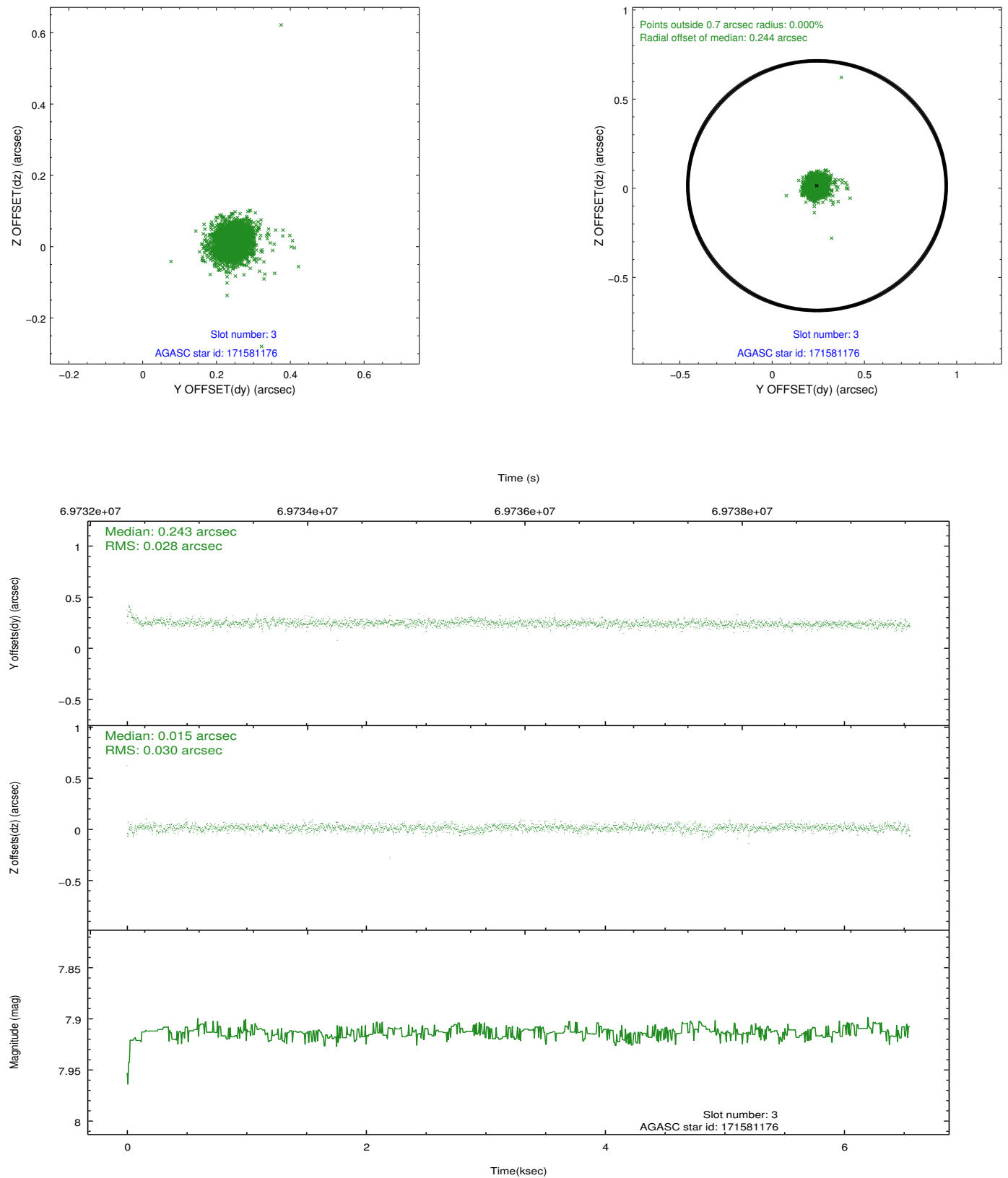


Slot Statistics

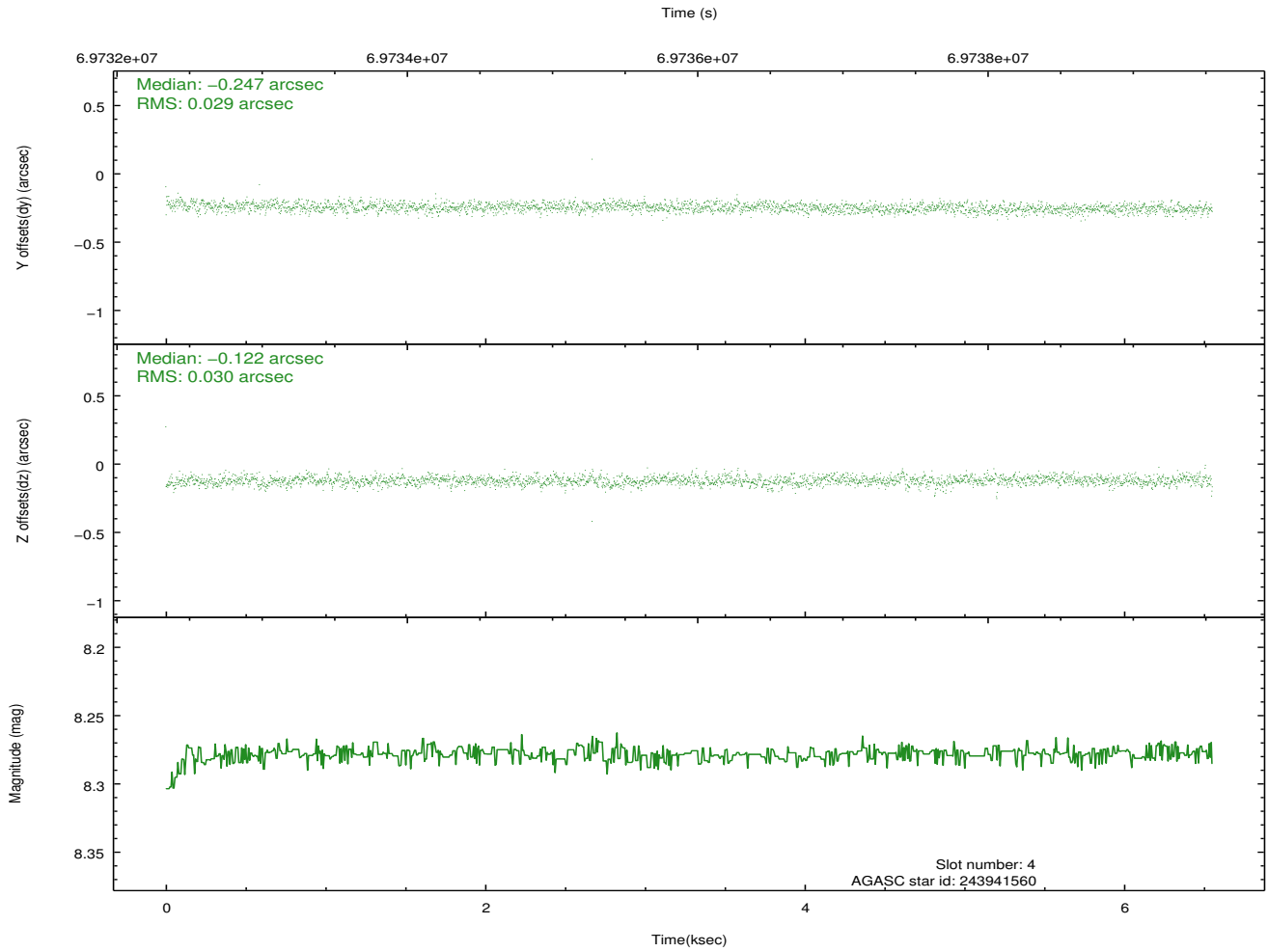
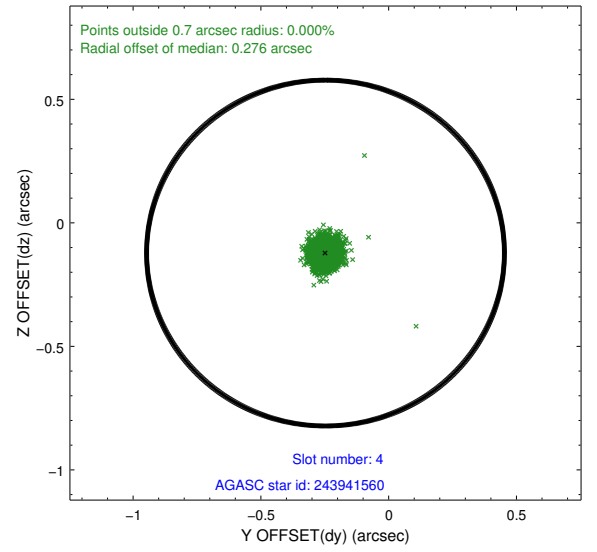
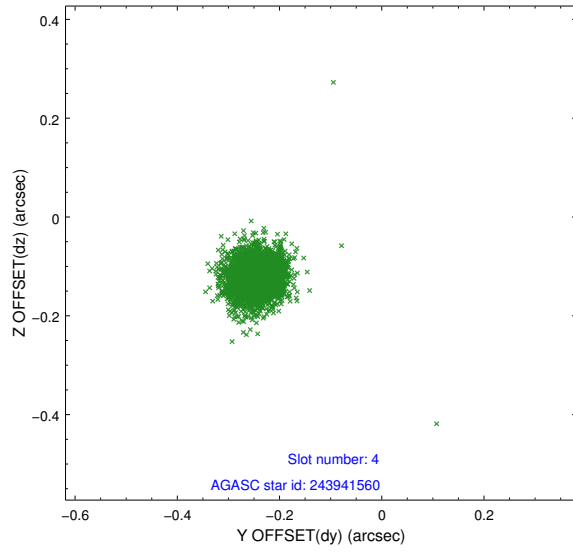
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.08	1599	-0.072	-0.354	0.007	0.012	0.000000	0.000000	-752.76	-1952.23
1	FID	ACIS-S-4	7.17	1599	0.073	0.129	0.006	0.011	0.000000	0.000000	2160.26	-44.34
2	FID	ACIS-S-5	7.23	1598	-0.031	0.232	0.007	0.012	0.000000	0.000000	-1804.41	-49.55
3	GUIDE	171581176	7.91	3197	0.243	0.015	0.039	0.070	83.918863	21.403256	2312.34	911.03
4	GUIDE	243941560	8.28	3197	-0.247	-0.122	0.043	0.071	83.733264	22.568598	-1904.91	467.45
5	GUIDE	171586976	8.51	3197	-0.202	0.125	0.046	0.076	83.857953	22.438065	-1419.28	862.18
6	GUIDE	171586032	8.94	3196	0.123	0.127	0.056	0.090	83.950197	22.083225	-129.77	1116.65
7	GUIDE	171600224	9.65	3192	0.082	-0.144	0.078	0.131	82.941815	21.636094	1329.61	-2320.67

2.4 Star Slots

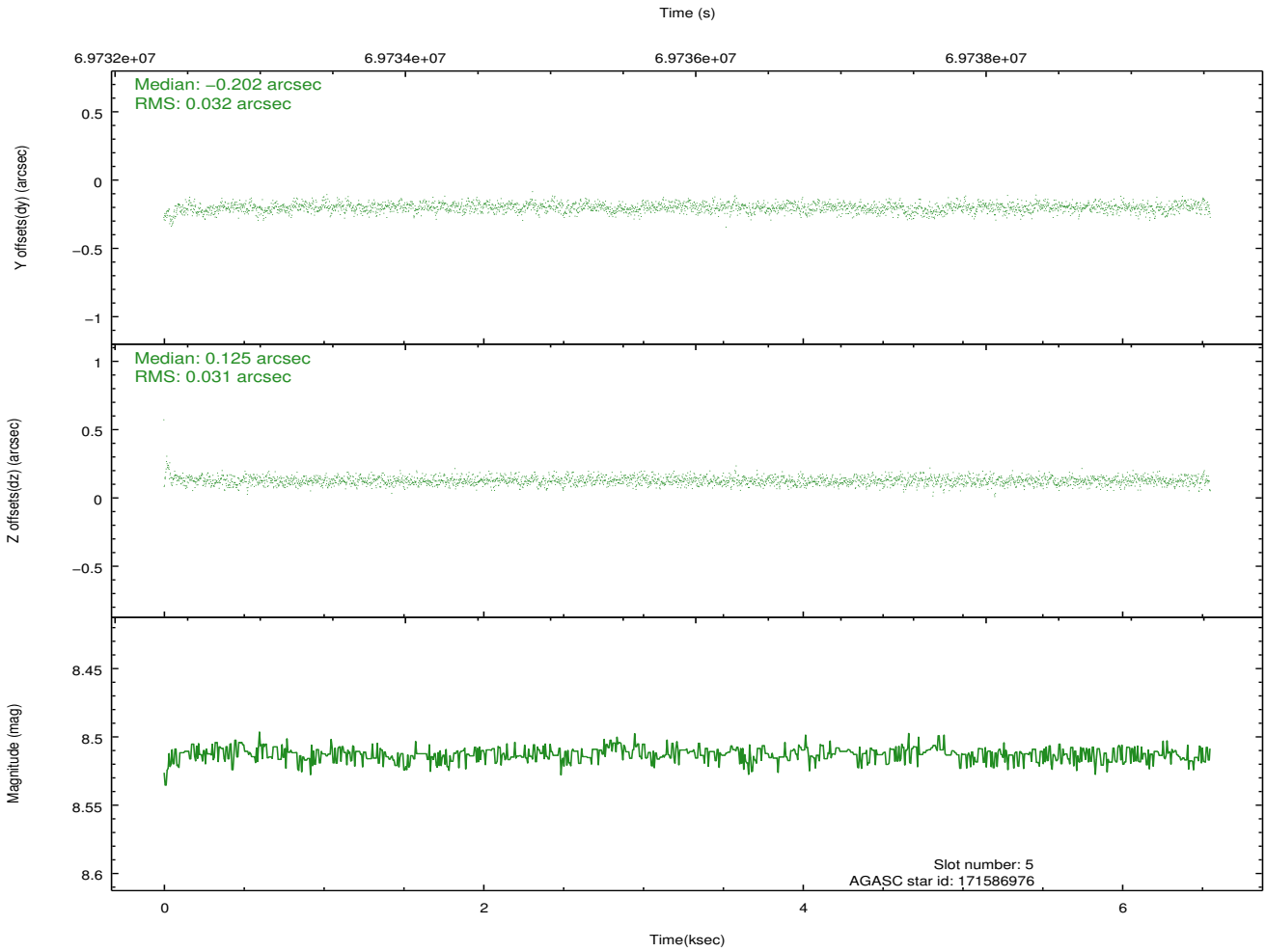
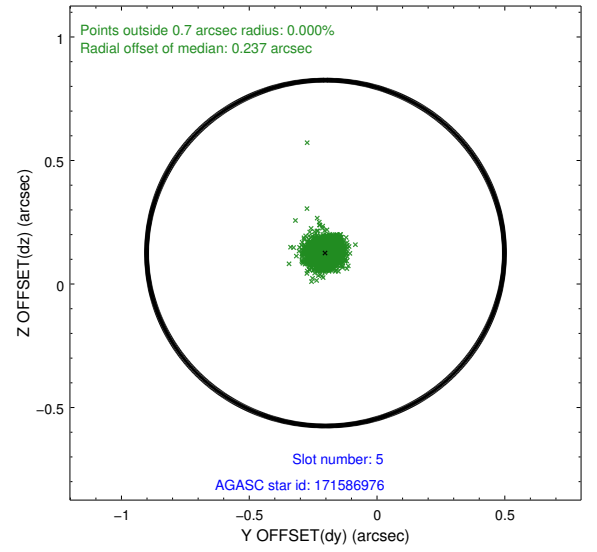
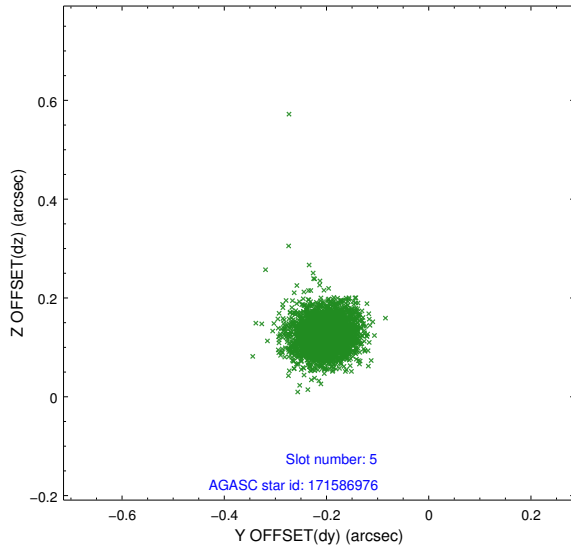
2.4.1 Slot 3



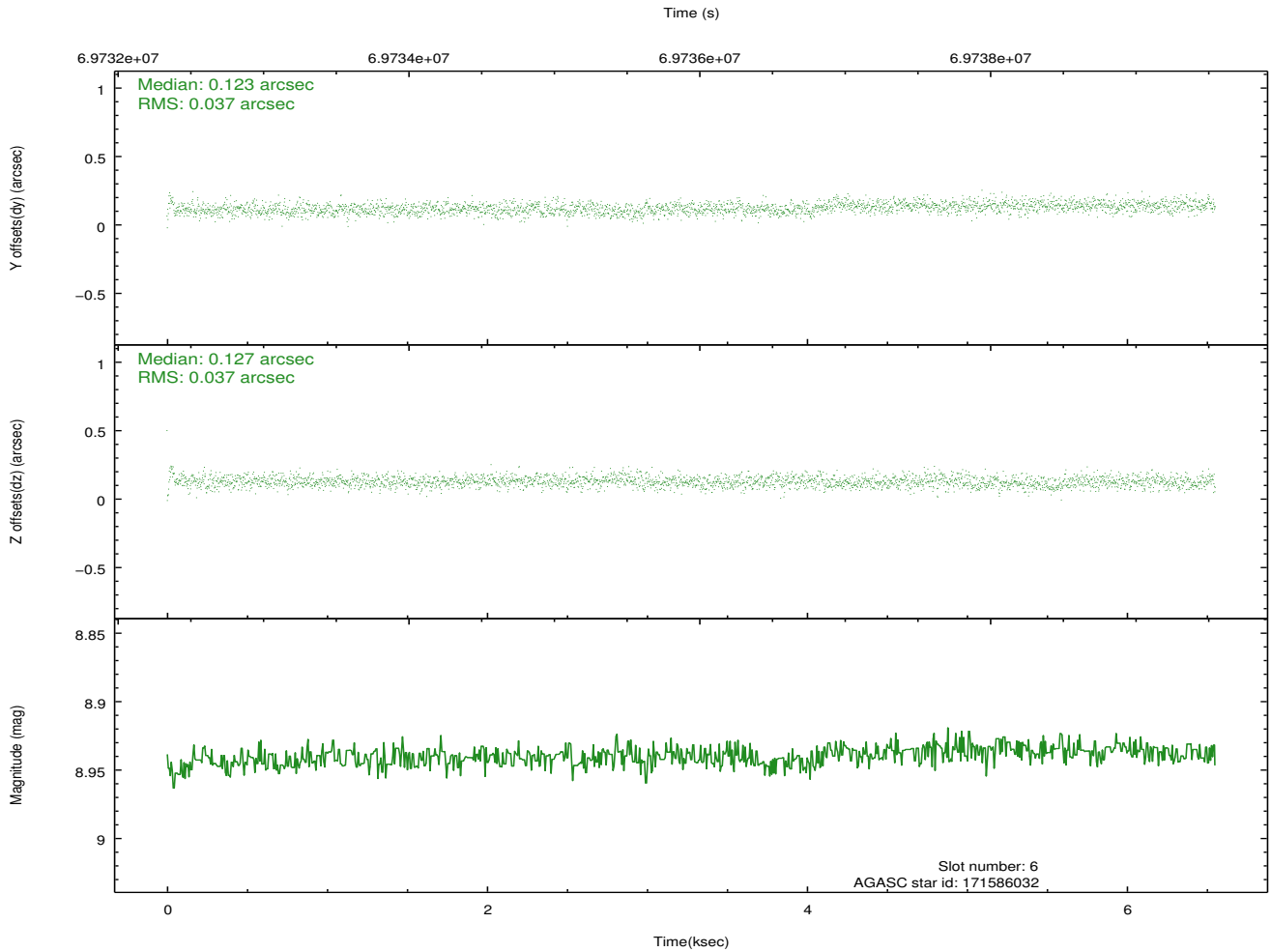
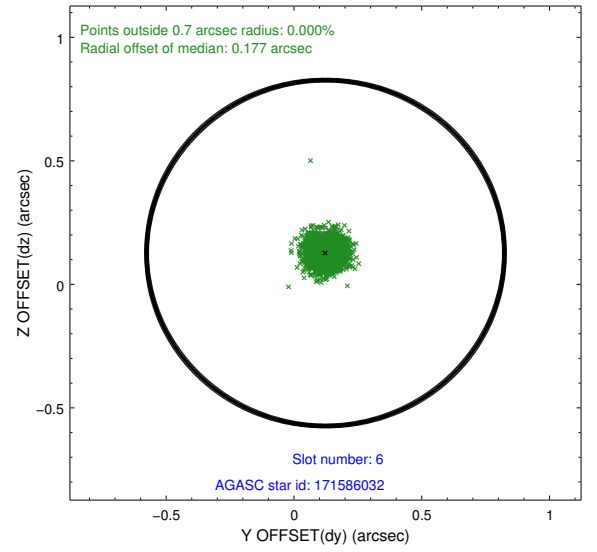
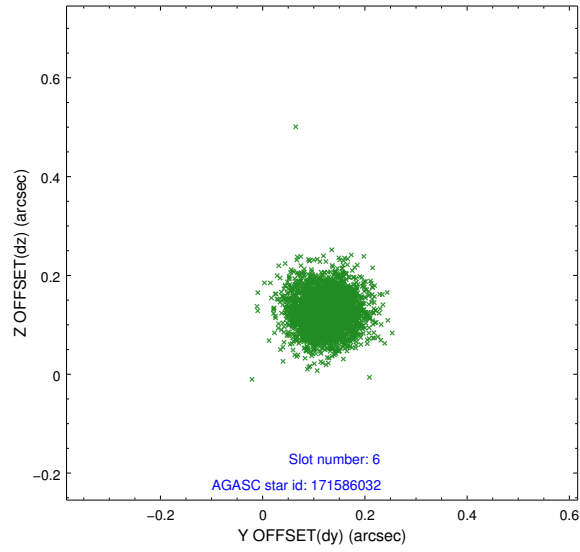
2.4.2 Slot 4



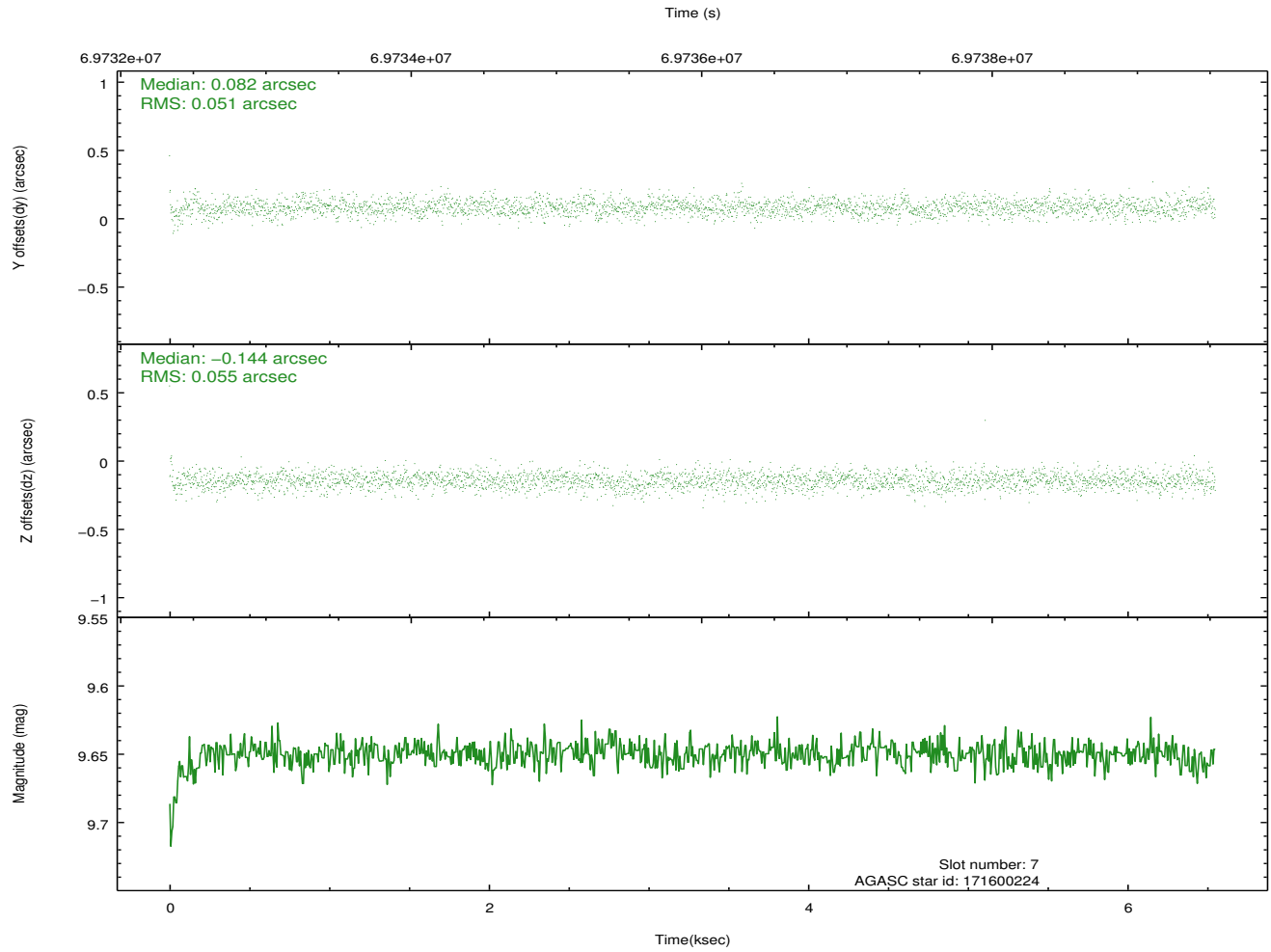
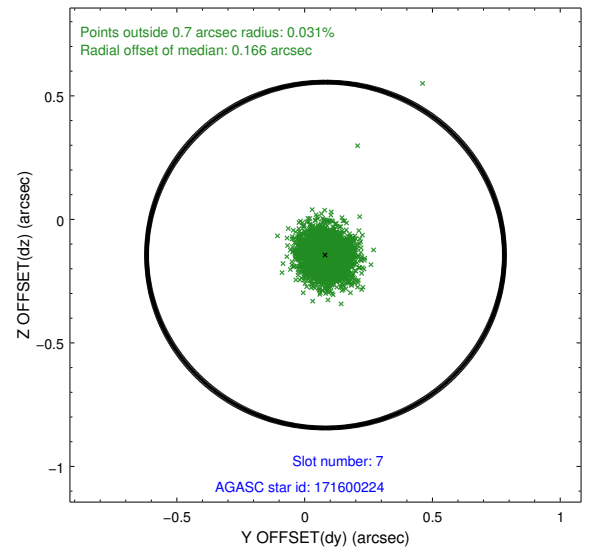
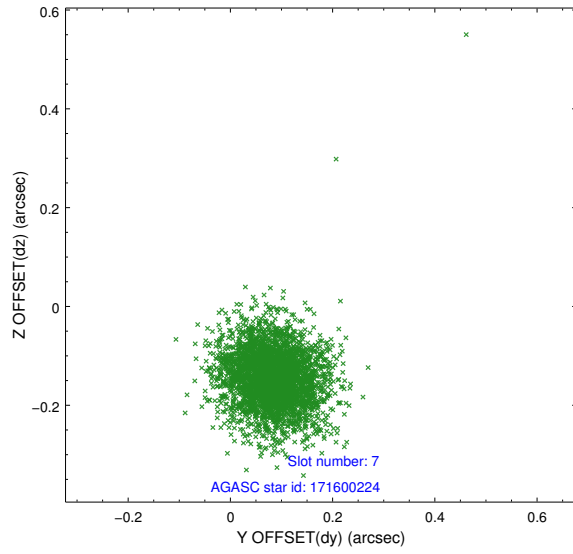
2.4.3 Slot 5



2.4.4 Slot 6

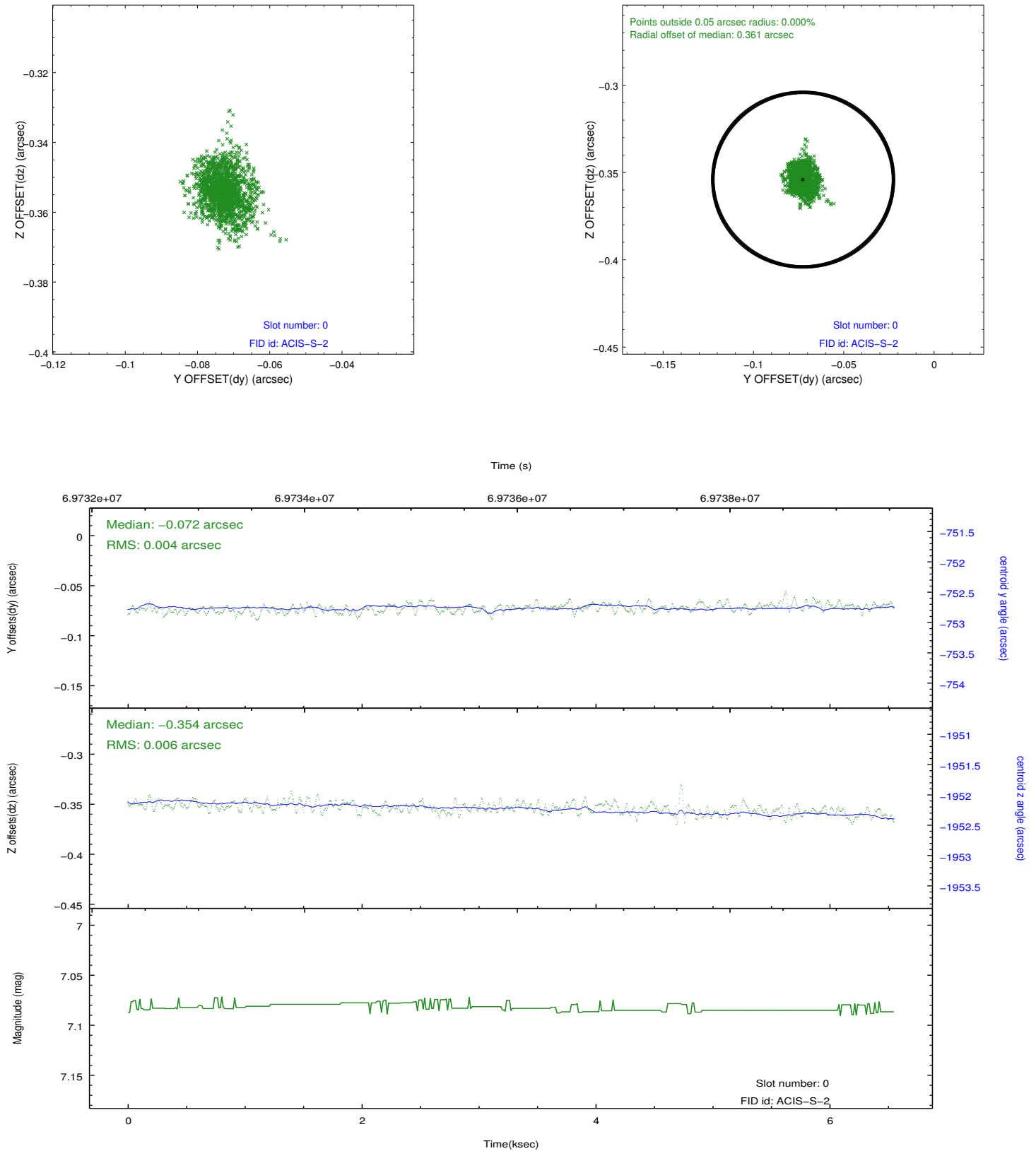


2.4.5 Slot 7

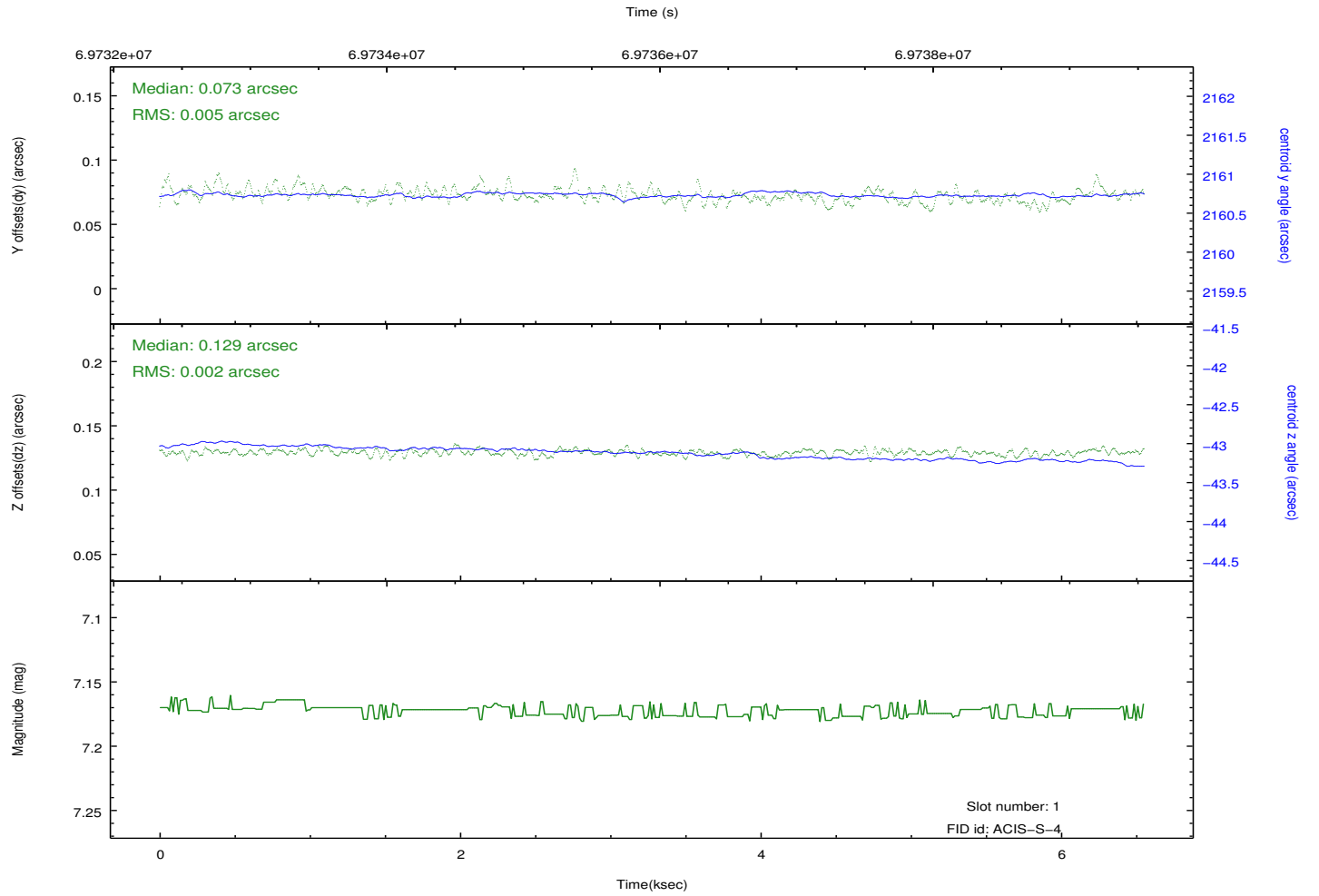
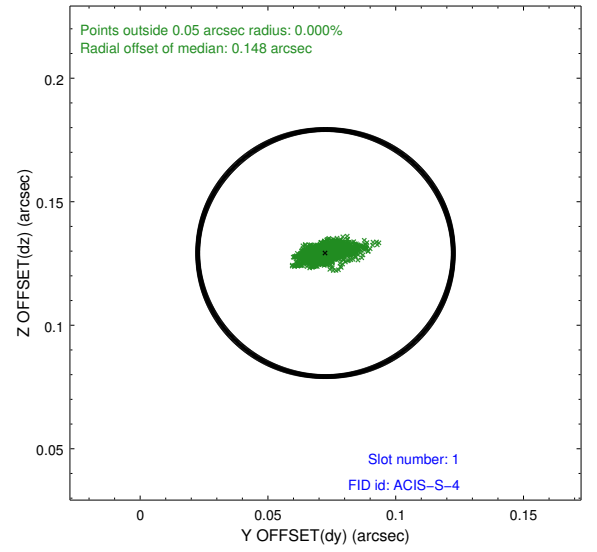
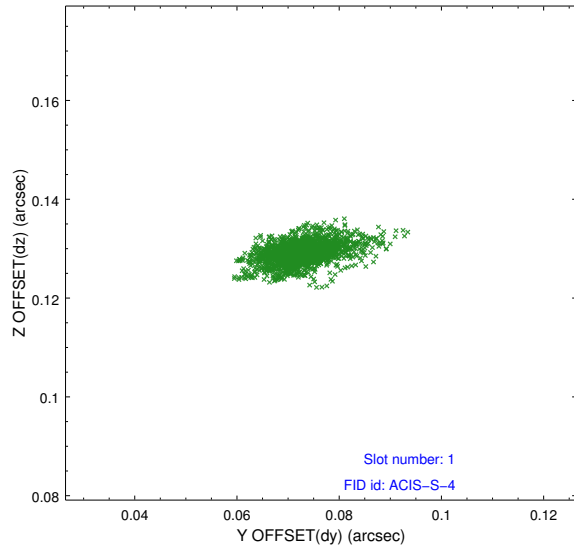


2.5 FID Slots

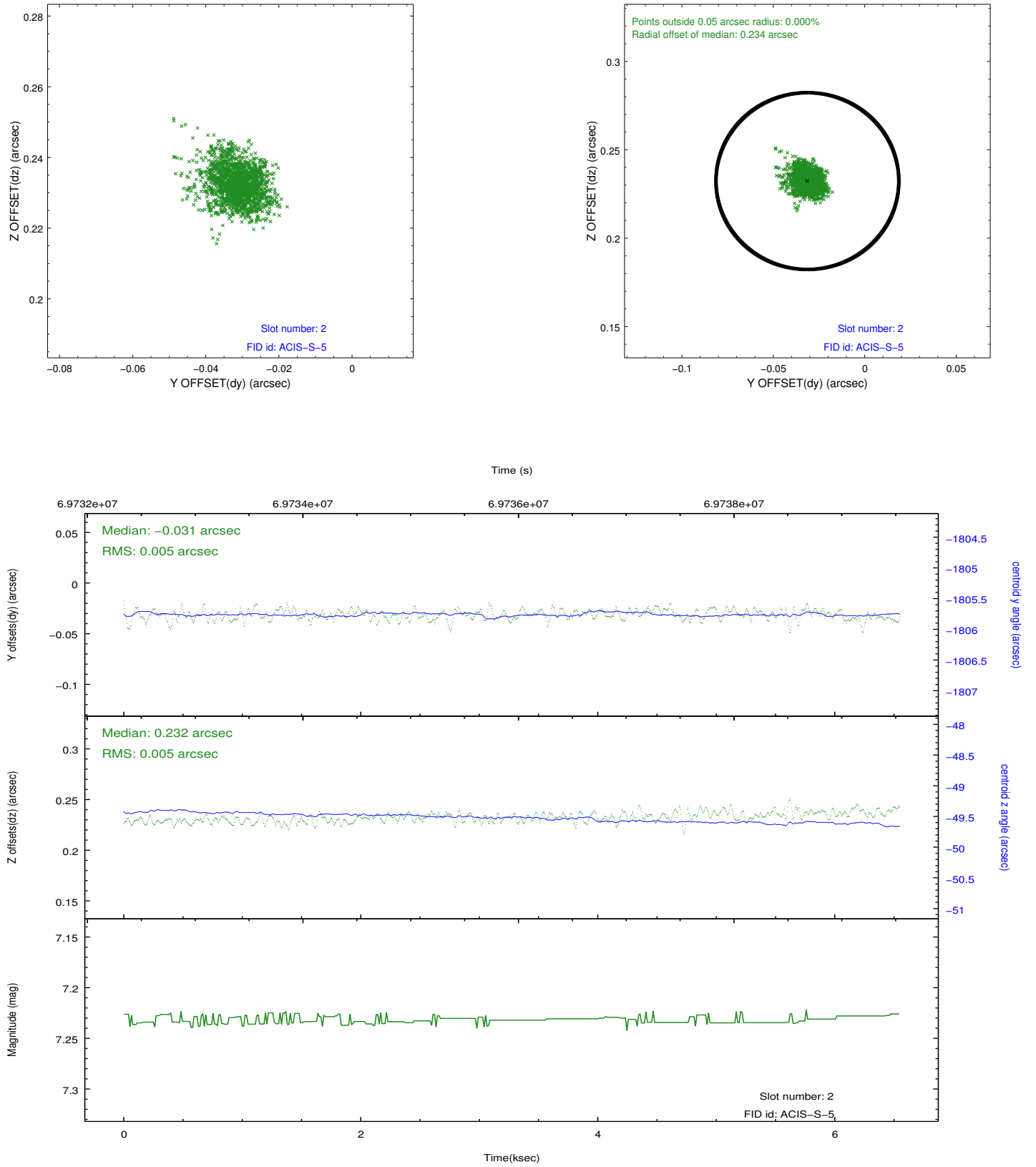
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.08.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.923

A.2 Comments

Charge time for this ObsId remains at original value of 1.923 ks, although with the current processing the charge time would have been 1.544 ksec. There are many dropped frames due to telemetry saturation. The observation was at a roll angle of 272.6 degrees which is slightly outside the specified roll of 245 +/- 25 degree. Window constraint was met. Dither was turned off for this observation.