

V&V Reference Report

L2 ASCDS Version : 10.2.4

Observation 16359 - L2 Version 1
Chandra X-Ray Center

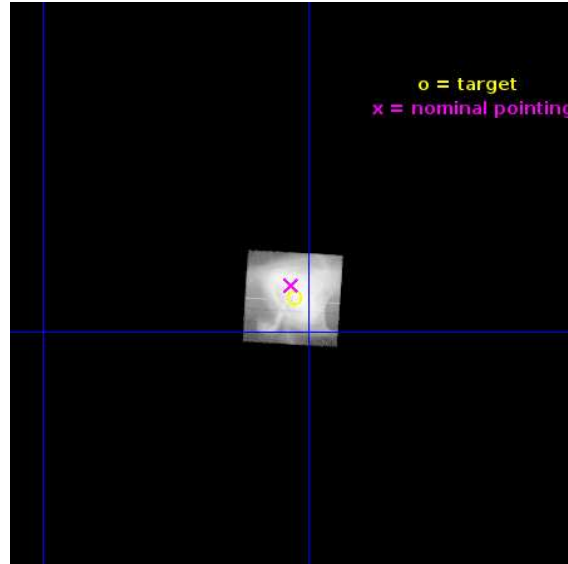
L2 Processing Date : Aug 16 2014

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1 Front

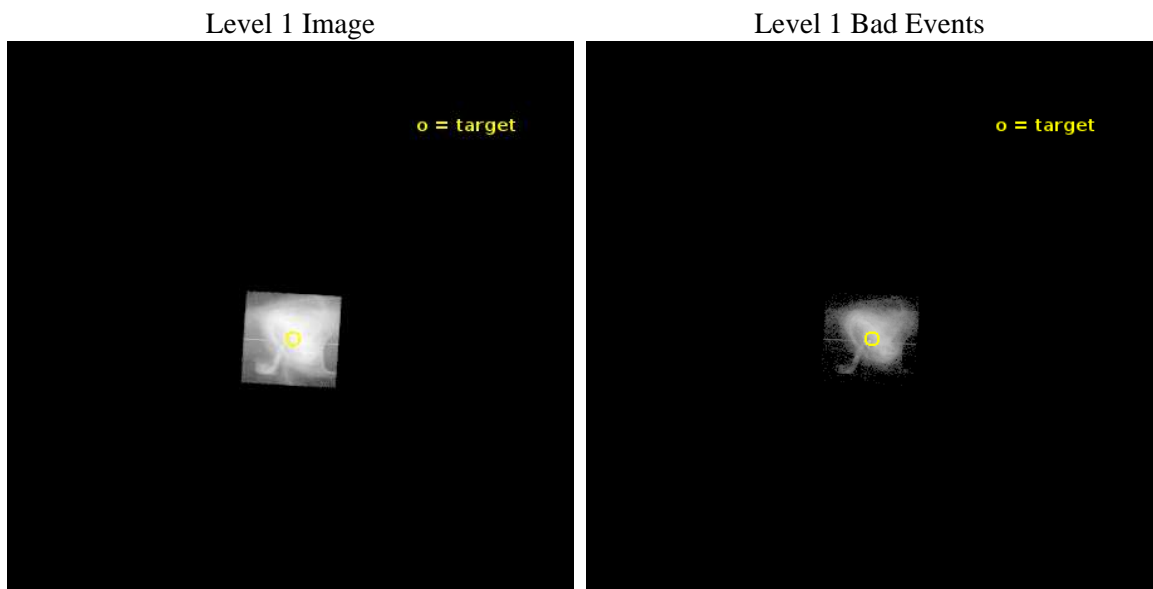
seq_num	502257	Sequence number
obs_id	16359	Observation id
title	Joint Chandra and HST Monitoring and Studies of the Crab Nebula	Pr
observer	Dr. Martin Weisskopf	Principal investigator
object	Crab	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	83.631667	Observer's specified target RA [deg]
dec_targ	22.015667	Observer's specified target Dec [deg]
ra_nom	83.633009341239	Nominal RA [deg]
dec_nom	22.021292395037	Nominal Dec [deg]
roll_nom	93.443300587313	Nominal Roll [deg]
revision	1	Processing version of data
ontime	7686.4162698388	Sum of GTIs [s]
livetime	1324.1939616578	Livetime [s]
ontime7	7686.4162698388	Sum of GTIs [s]
l2events	3518680	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	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.2.4	Processing system revision	ontime	7686.4162698388	Sum of GTIs [s]
caldsver	4.6.2	 	ontime7	7686.4162698388	Sum of GTIs [s]
date	2014-08-16T19:10:47	Date and time of file creation	l1events	3883882	Number of level 1 events
revision	1	Processing version of data			

2.1.3 Events

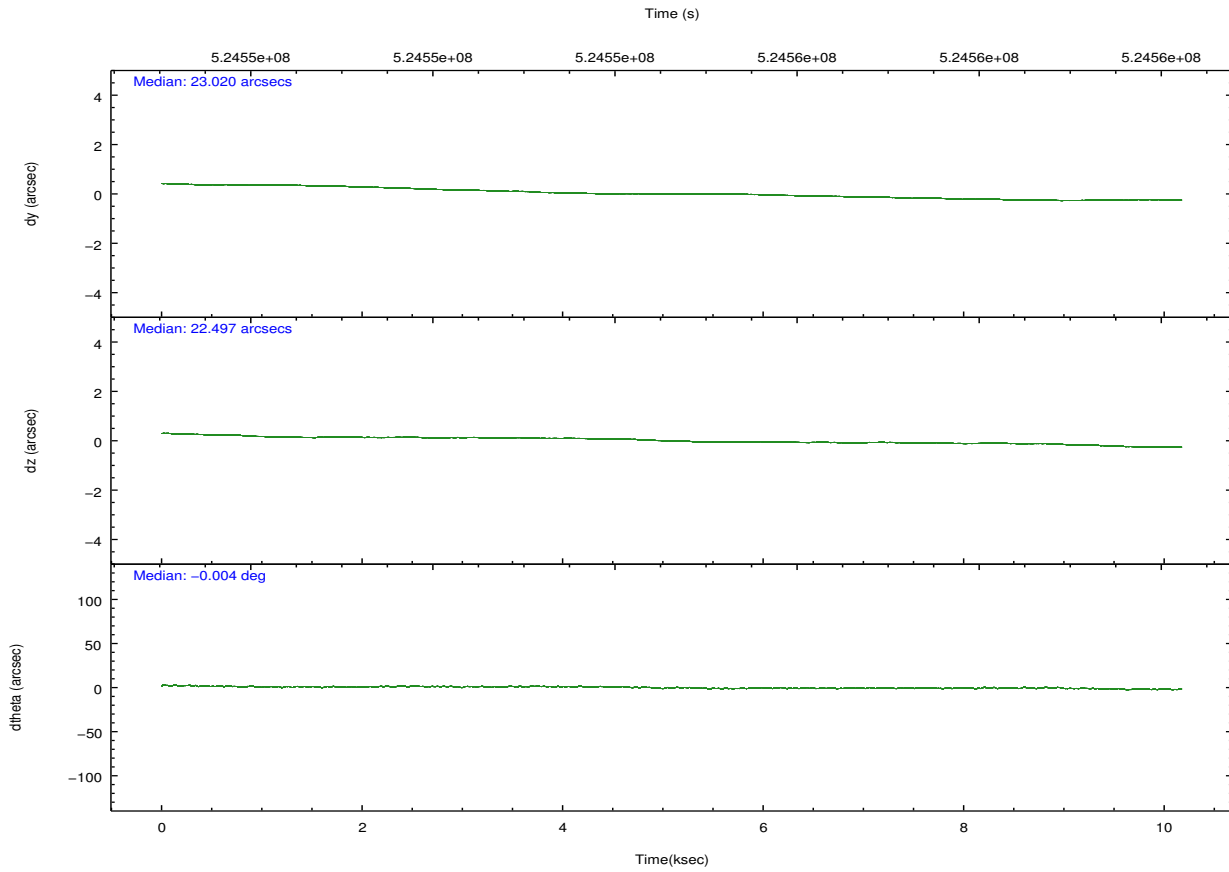
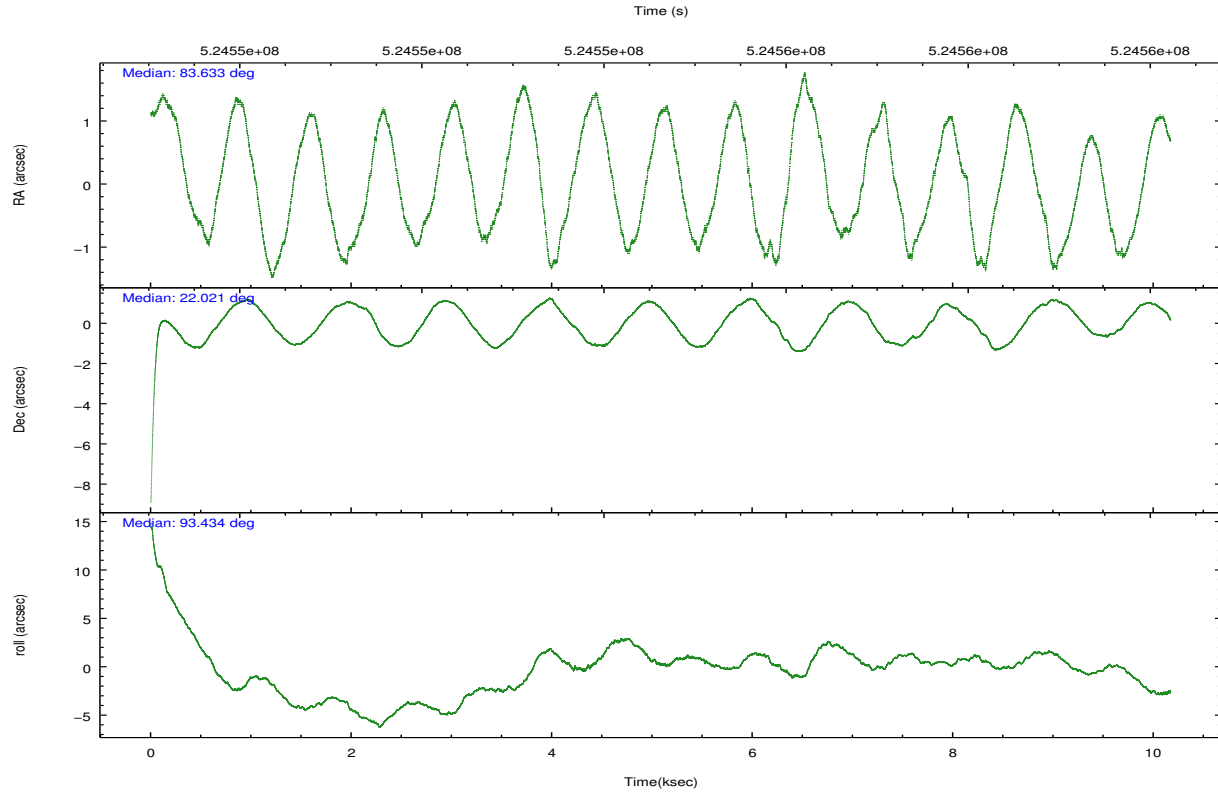
	ccd 7
level 1 events	3883882
rejected events	338055
rejected %	8%

	ccd 7
grade 0 events	790942
	20%
grade 1 events	40659
	1%
grade 2 events	1009474
	25%
grade 3 events	380106
	9%
grade 4 events	375723
	9%
grade 5 events	121761
	3%
grade 6 events	990083
	25%
grade 7 events	175134
	4%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	GRADED	GRADED	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	83.649656	83.63300934123933	Subarray requested	CUSTOM	CUSTOM
[deg] Pointing Dec	21.998597	22.02129239503681	Subarray start row	465	465
[deg] Pointing Roll	93.280431	93.44330058731306	Subarray row count	300	300
[s] Window start time (MET)	523584067.184000	523584067.184000	Alternating exposures requested	N	N
[s] Window stop time (MET)	525312067.184000	525312067.184000	[s] Primary exposure time	0.000000	0.2
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-193.352523	-193.3583896358687			
[mm] SIM translation stage offset	3.22	3.225867052860877			
[s] Observation start time (MET)	524549712.184000	524548902.63974			
Observation start date	2014-08-16T04:14:05	2014-08-16T04:01:42			
[s] Observation end time (MET)	524559712.184000	524560134.07786			
Observation end date	2014-08-16T07:00:45	2014-08-16T07:08:54			
Read mode	TIMED	TIMED			

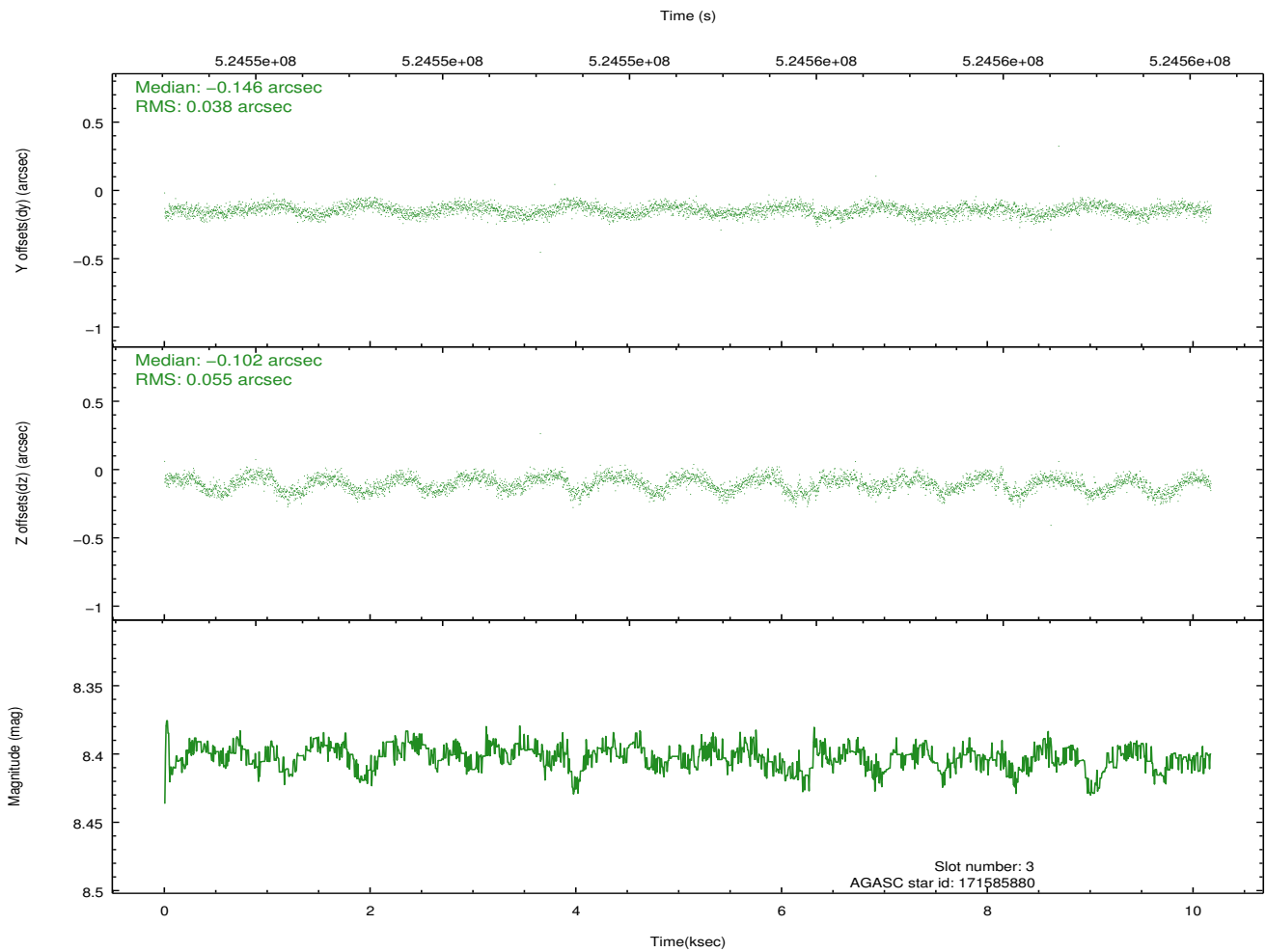
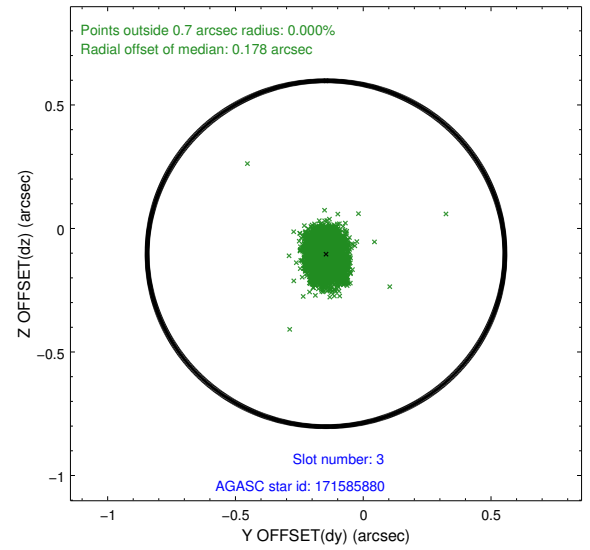
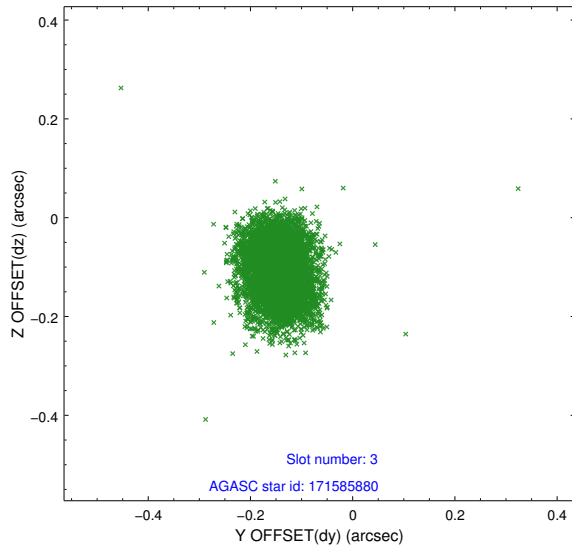
2.3 Aspect



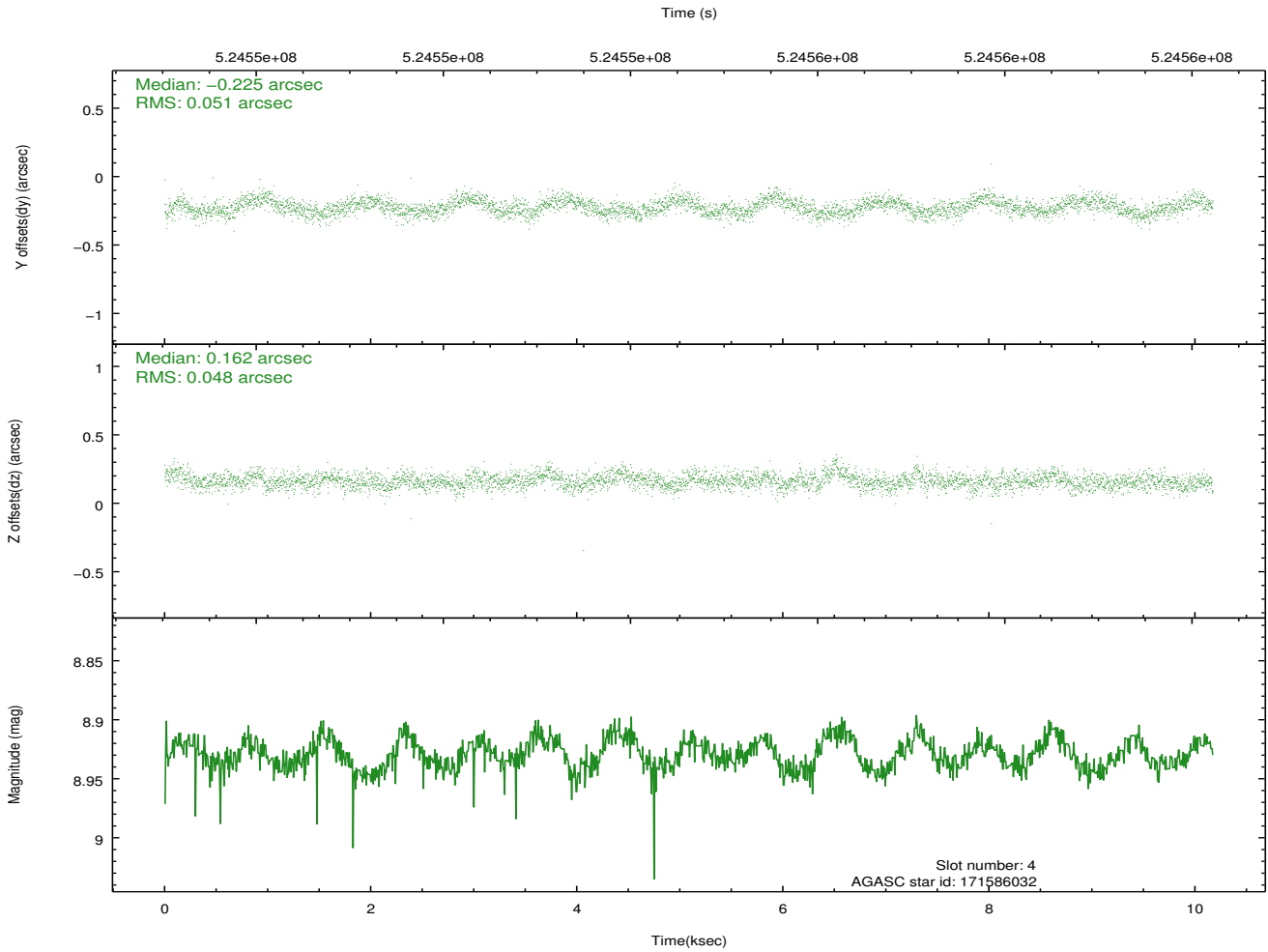
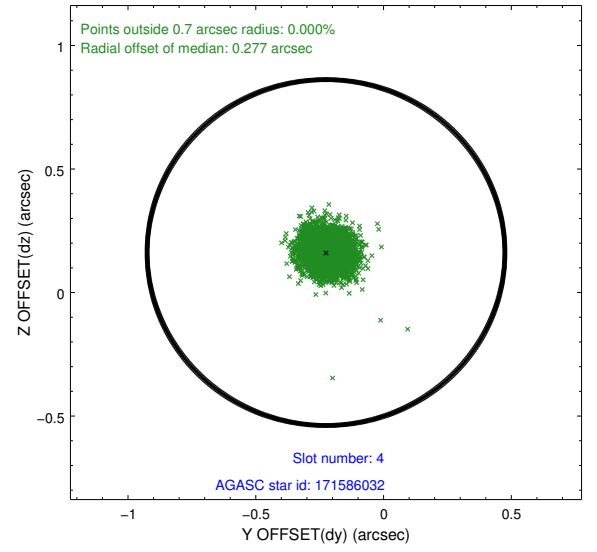
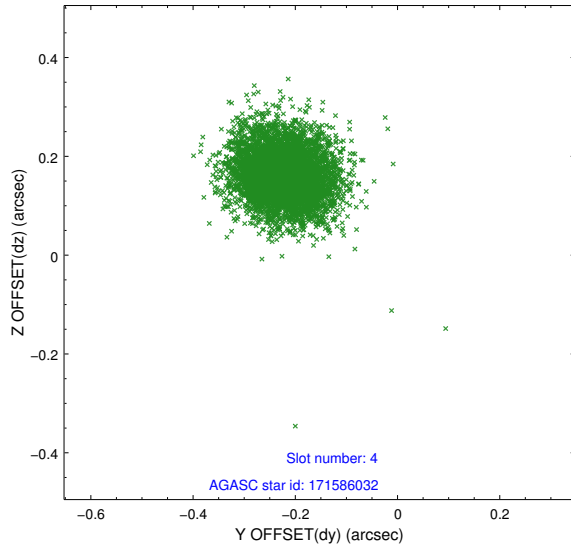
Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.95	2481	-0.081	0.049	0.006	0.011	0.000000	0.000000	-776.51	-1677.71
1	FID	ACIS-S-4	7.02	2481	0.241	0.026	0.007	0.014	0.000000	0.000000	2136.84	230.25
2	FID	ACIS-S-5	7.06	2481	-0.192	-0.066	0.007	0.012	0.000000	0.000000	-1828.81	224.40
3	GUIDE	171585880	8.40	4962	-0.146	-0.102	0.071	0.111	83.676260	22.176319	633.93	-125.06
4	GUIDE	171586032	8.93	4956	-0.225	0.162	0.074	0.119	83.950197	22.083225	248.21	-1018.14
5	GUIDE	171597832	9.12	4958	0.489	-0.292	0.075	0.127	83.183230	21.366702	-2178.65	1690.56
6	GUIDE	171721904	9.24	4960	0.101	0.080	0.116	0.175	84.272676	22.116922	310.98	-2098.47
7	GUIDE	243941560	8.32	4962	-0.220	0.151	0.054	0.088	83.733264	22.568598	2032.85	-394.58

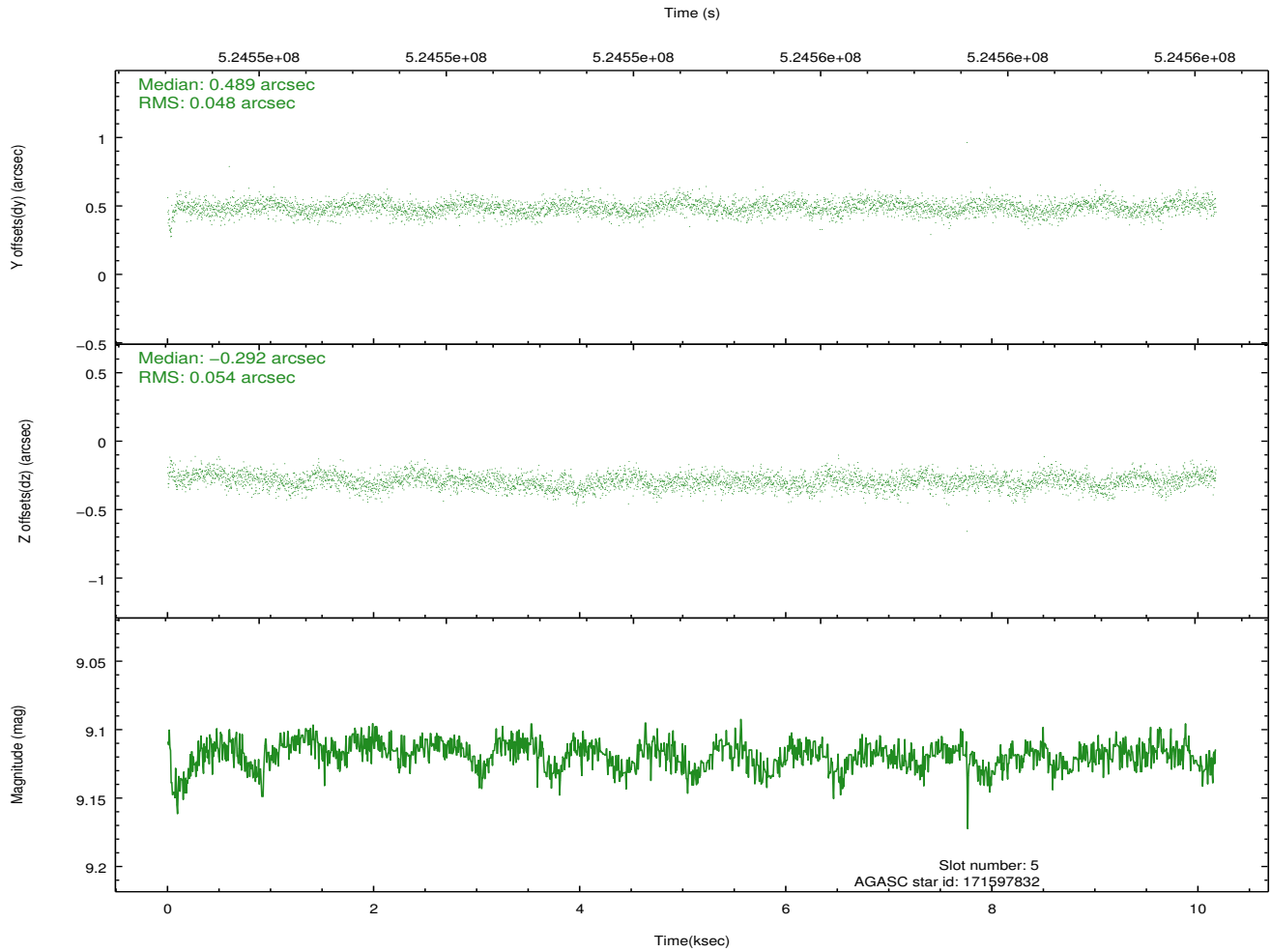
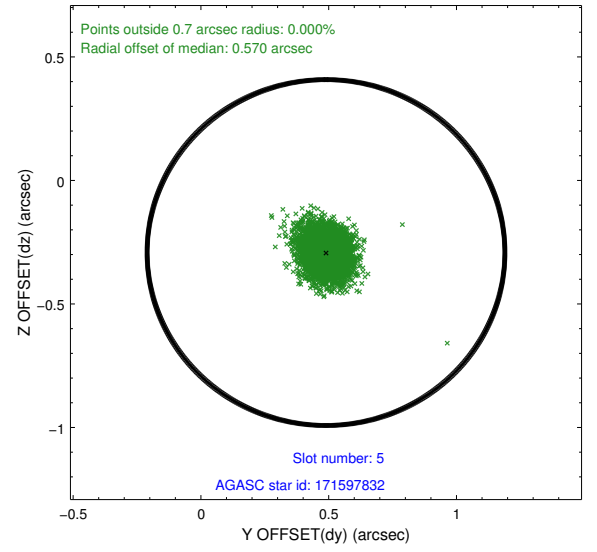
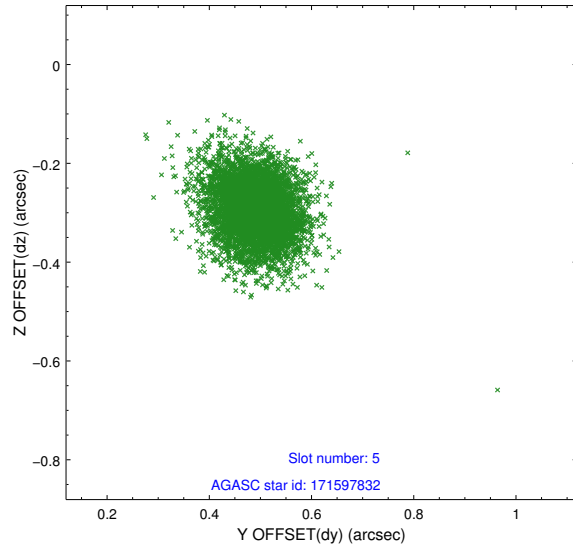
2.4.1 Slot 3



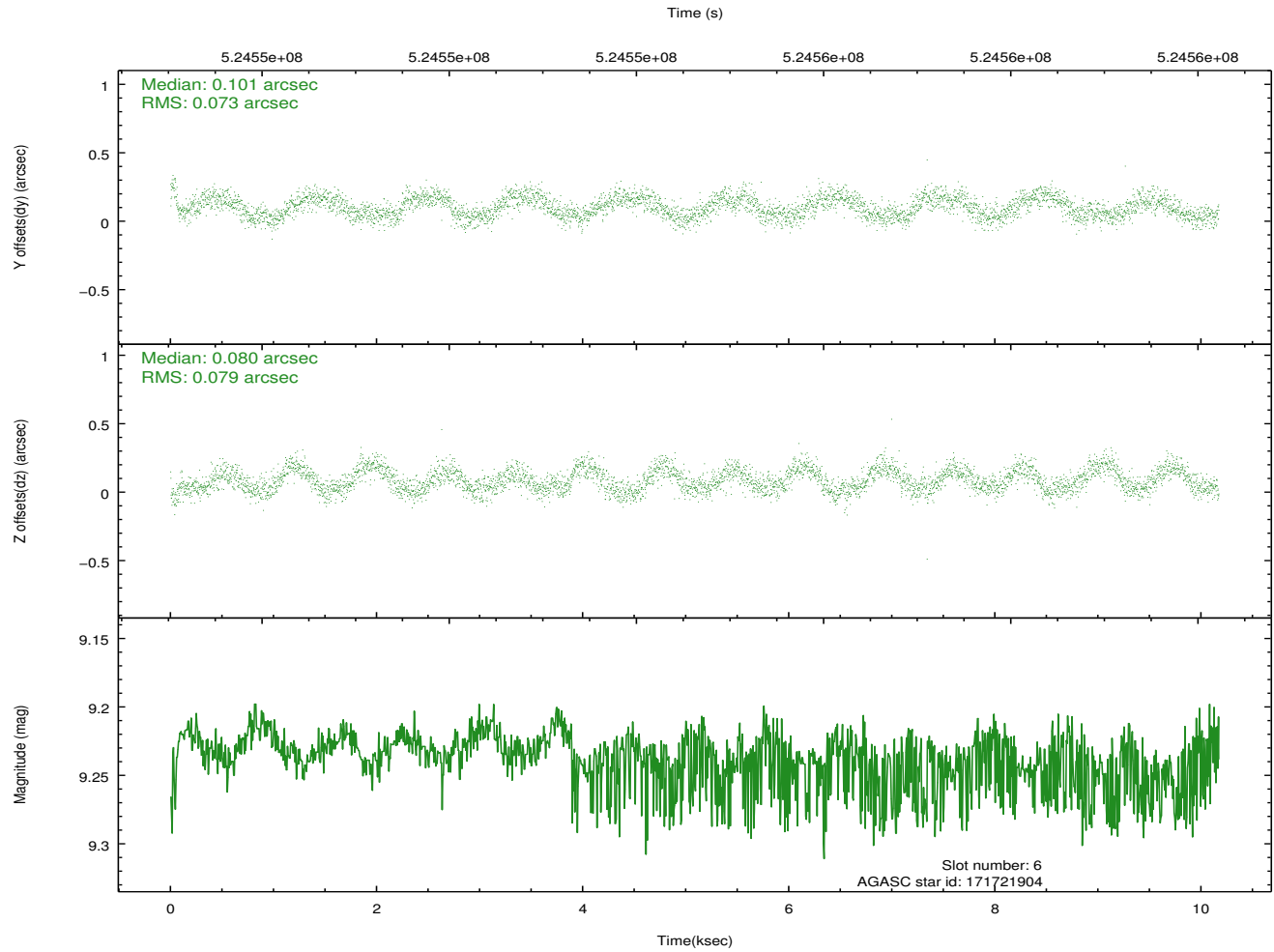
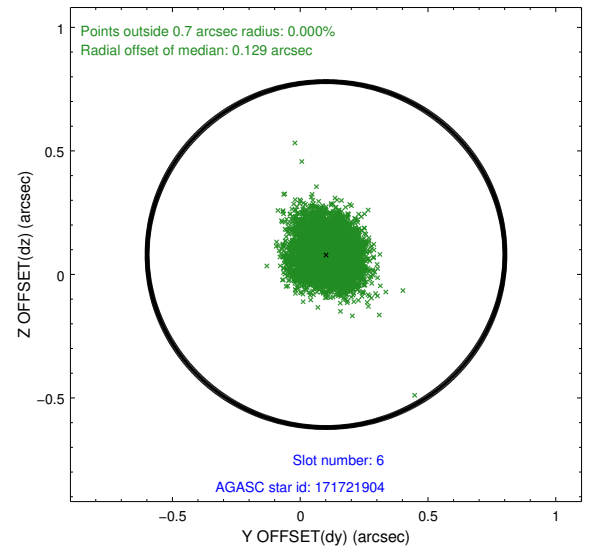
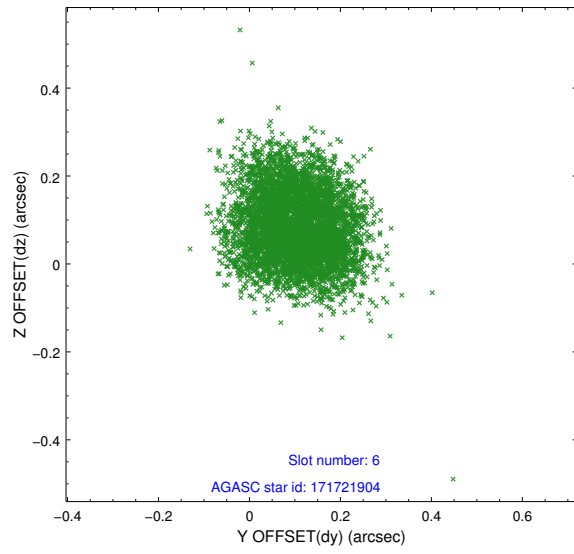
2.4.2 Slot 4



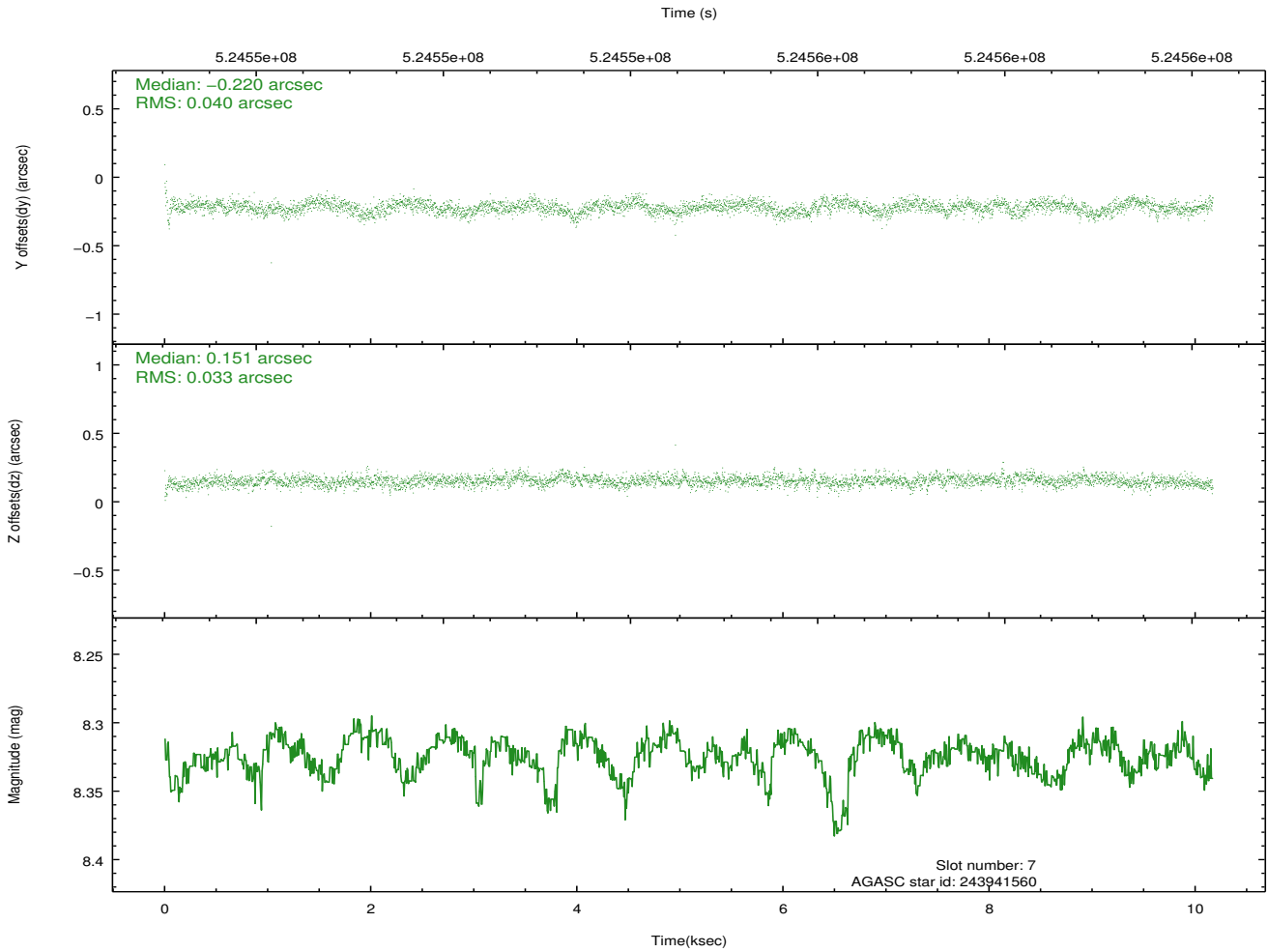
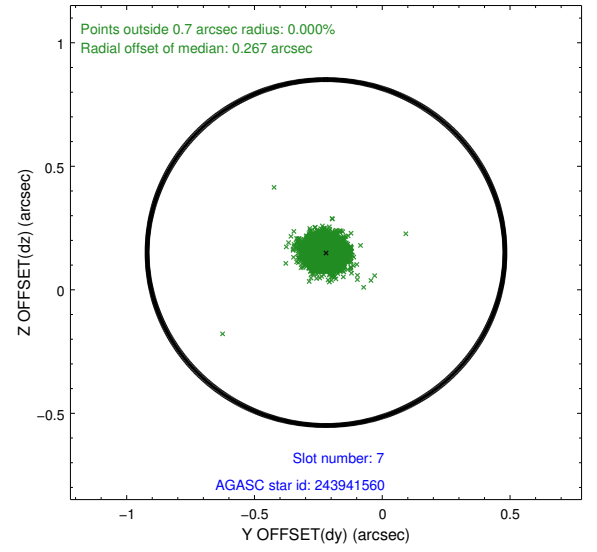
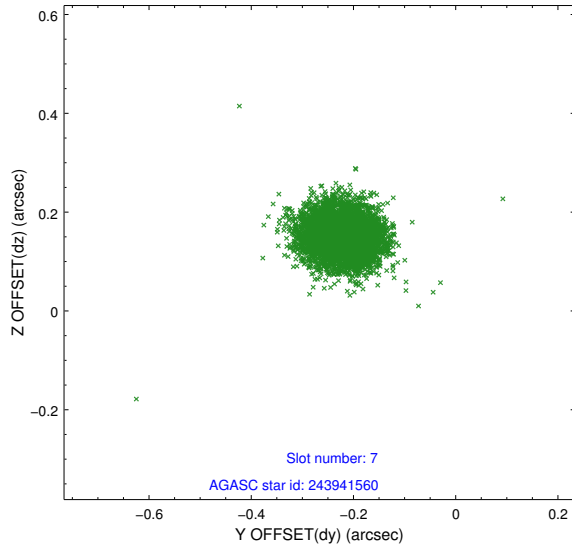
2.4.3 Slot 5



2.4.4 Slot 6

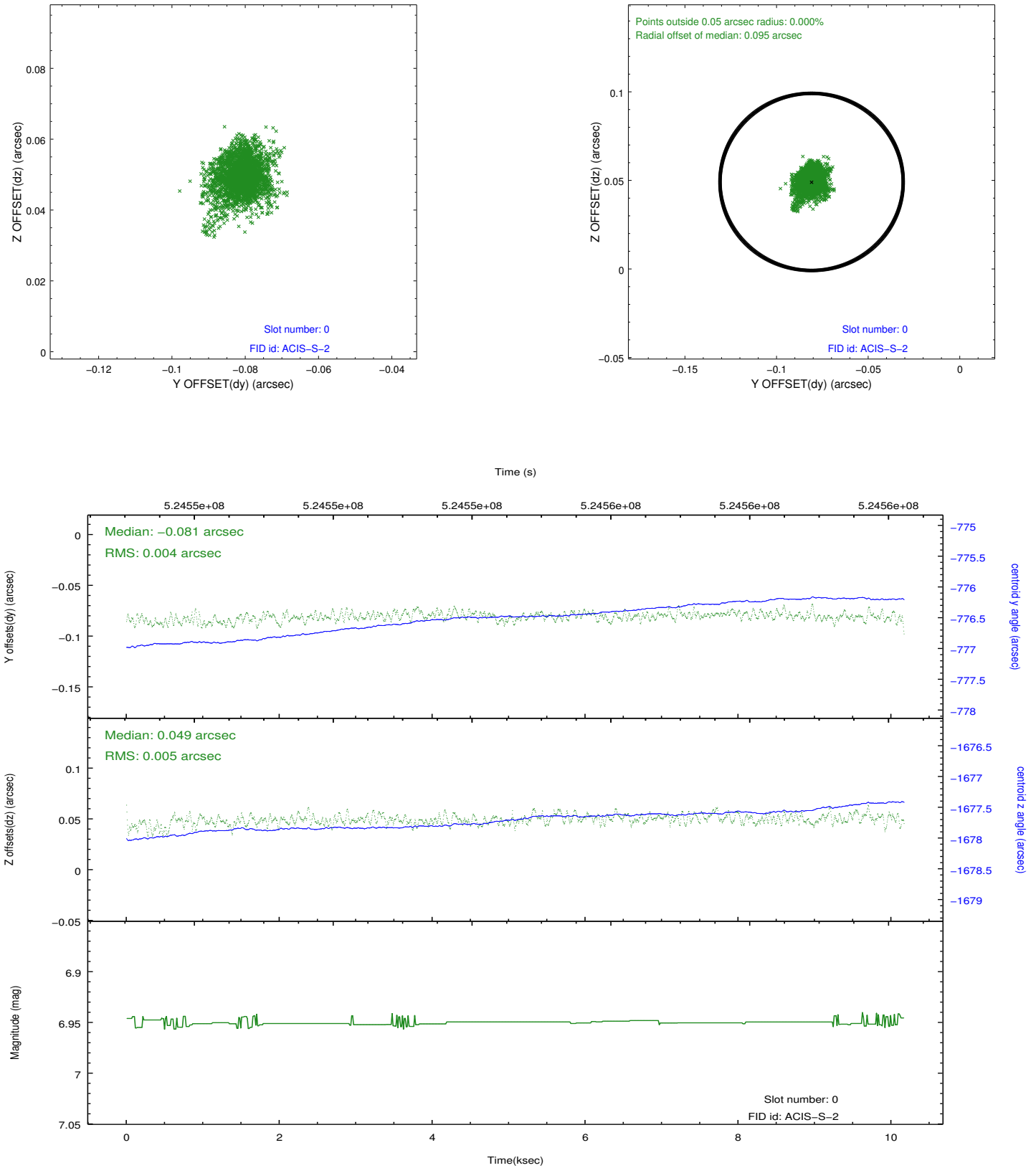


2.4.5 Slot 7

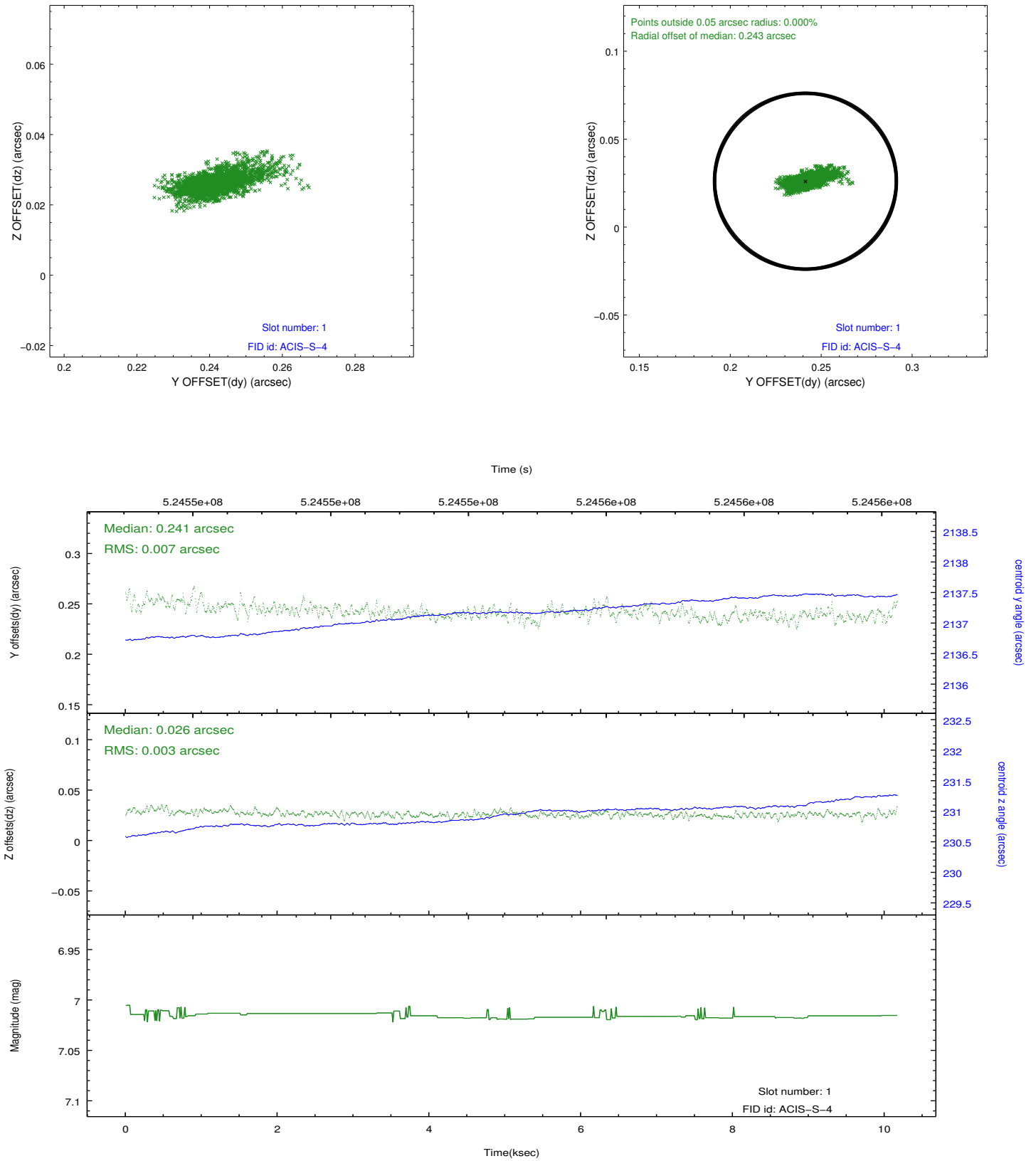


2.5 FID Slots

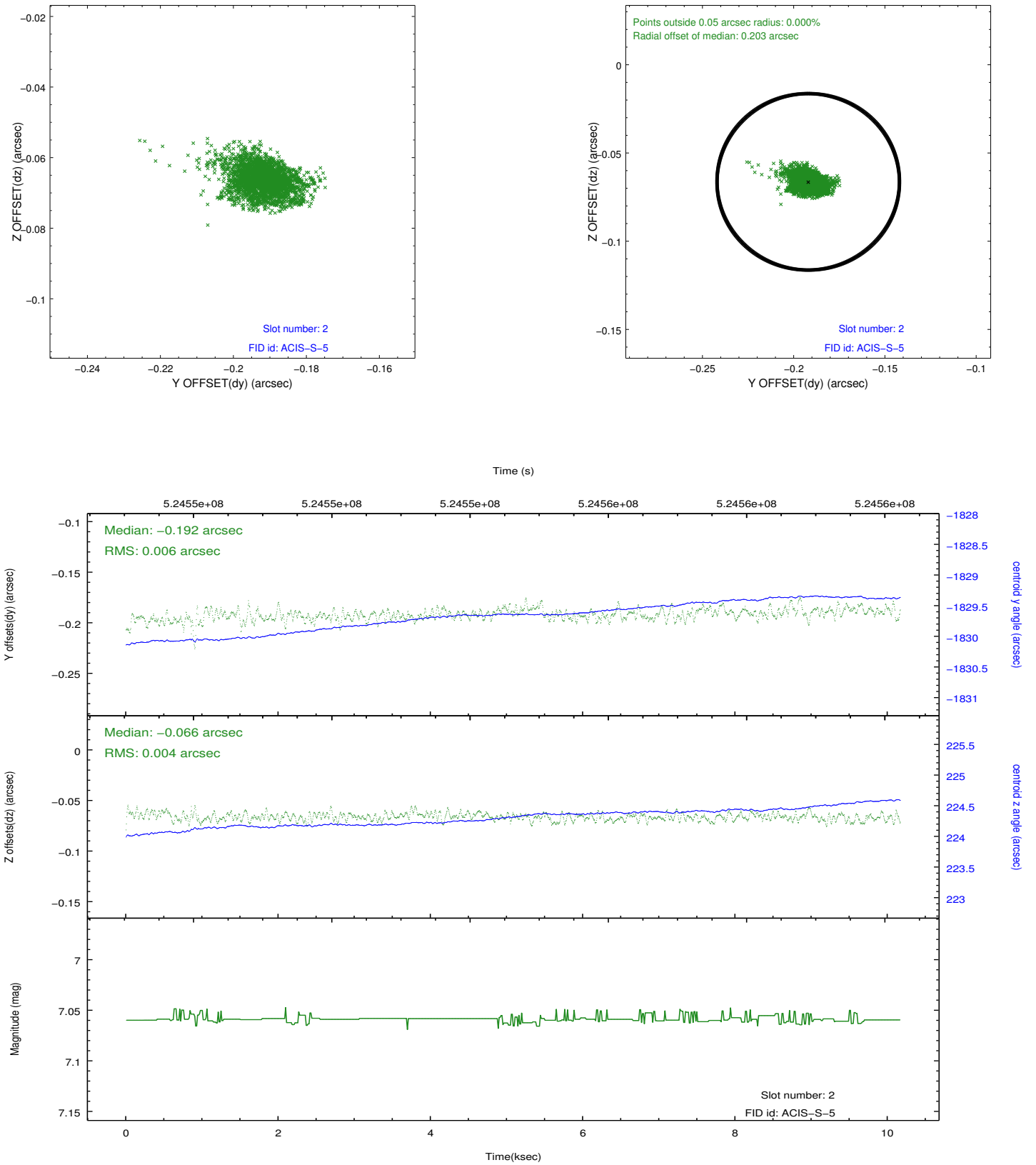
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2014.08.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10

A.2 Comments

Non-standard dither of 1 arcsec. Charge time is less than ONTIME because of telemetry saturation, which is expected for this target, and because of subarray selection. Charge time has been set to the original scheduled exposure time.