

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 18447 - L2 Version 1
Chandra X-Ray Center

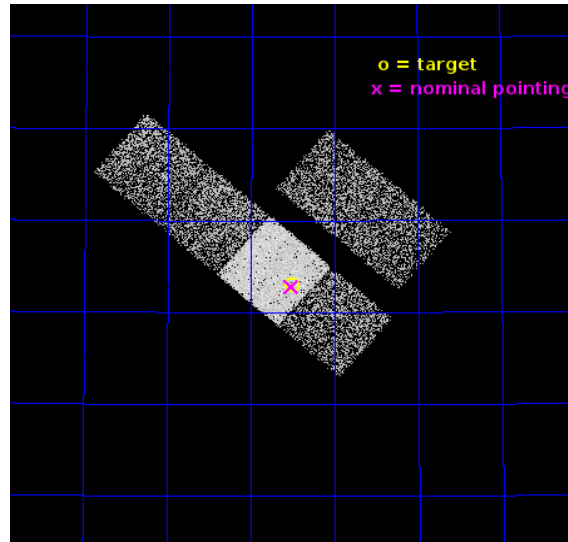
L2 Processing Date : May 17 2016

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1 Front

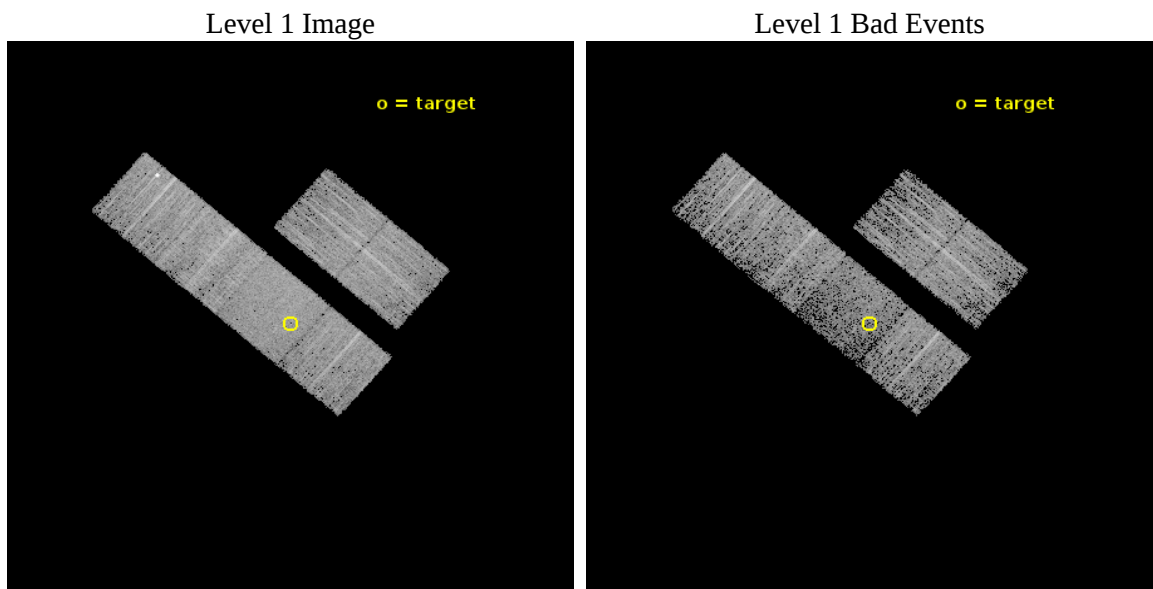
seq_num	703286	Sequence number
obs_id	18447	Observation id
title	Deciphering the X-ray Enhancement of Highly Radio-Loud Quasars in the Early Universe	Proposal title
observer	Gordon Garmire	Principal investigator
object	SDSS J124230.58+542257.3	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	190.6275	Observer's specified target RA [deg]
dec_targ	54.382583	Observer's specified target Dec [deg]
ra_nom	190.62936530288	Nominal RA [deg]
dec_nom	54.380214702846	Nominal Dec [deg]
roll_nom	220.87865810828	Nominal Roll [deg]
revision	1	Processing version of data
ontime	4927.8377304077	Sum of GTIs [s]
livetime	4865.4384818776	Livetime [s]
ontime2	4927.6735703945	Sum of GTIs [s]
ontime3	4927.7556504011	Sum of GTIs [s]
ontime6	4927.7966903448	Sum of GTIs [s]
ontime7	4927.8377304077	Sum of GTIs [s]
ontime8	4927.7146103382	Sum of GTIs [s]
ontime9	4927.8787703514	Sum of GTIs [s]
l2events	27979	Number of level 2 events



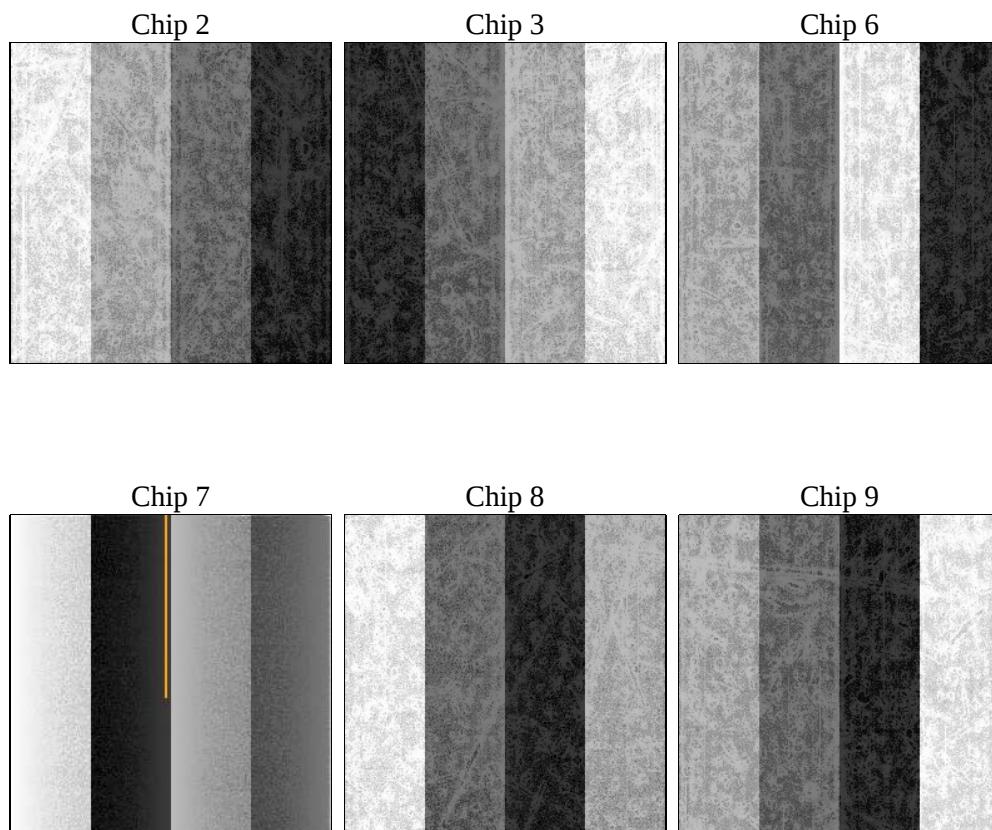
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	4927.8377304077	Sum of GTIs [s]
caldsver	4.7.1	 	ontime2	4927.6735703945	Sum of GTIs [s]
date	2016-05-17T11:01:45	Date and time of file creation	ontime3	4927.7556504011	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	4927.7966903448	Sum of GTIs [s]
			ontime7	4927.8377304077	Sum of GTIs [s]
			ontime8	4927.7146103382	Sum of GTIs [s]
			ontime9	4927.8787703514	Sum of GTIs [s]
			l1events	193850	Number of level 1 events

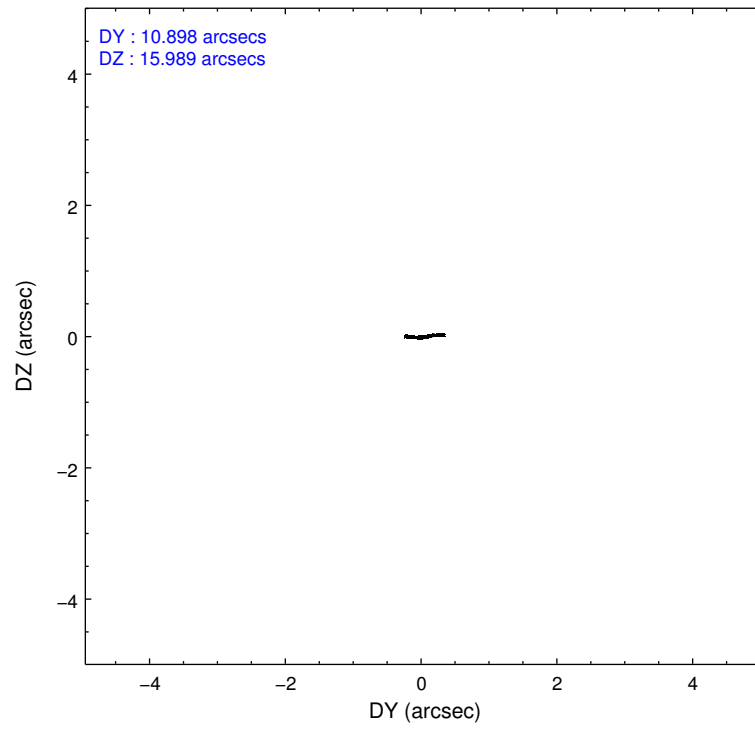
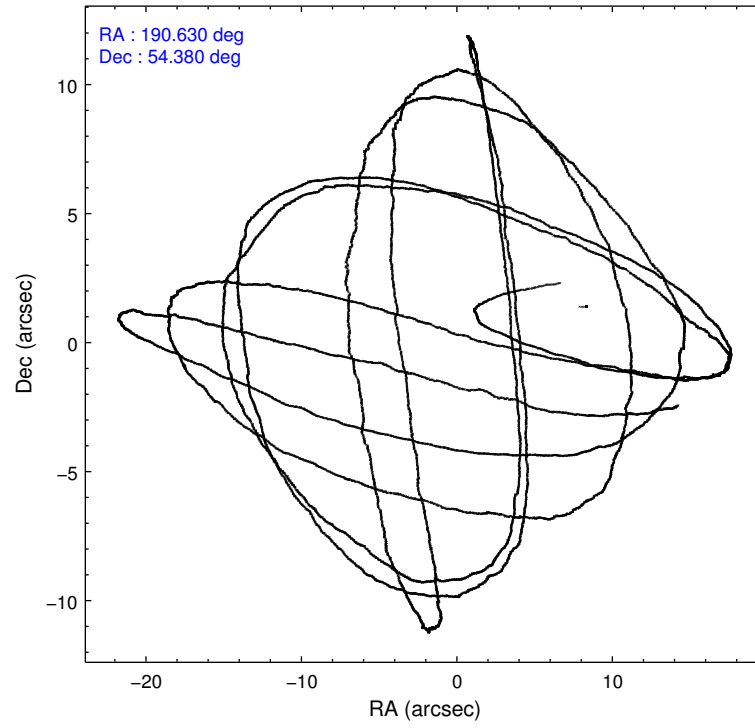
2.1.4 Events

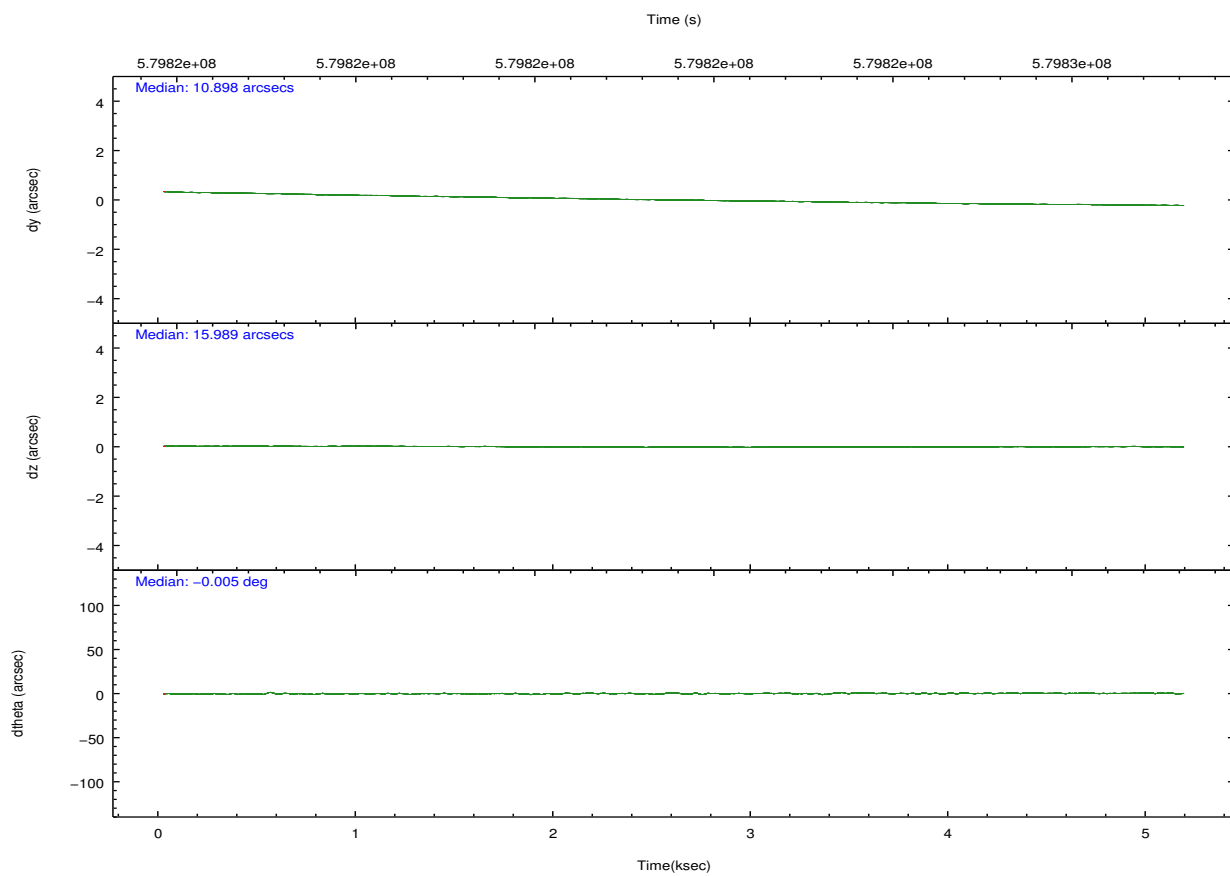
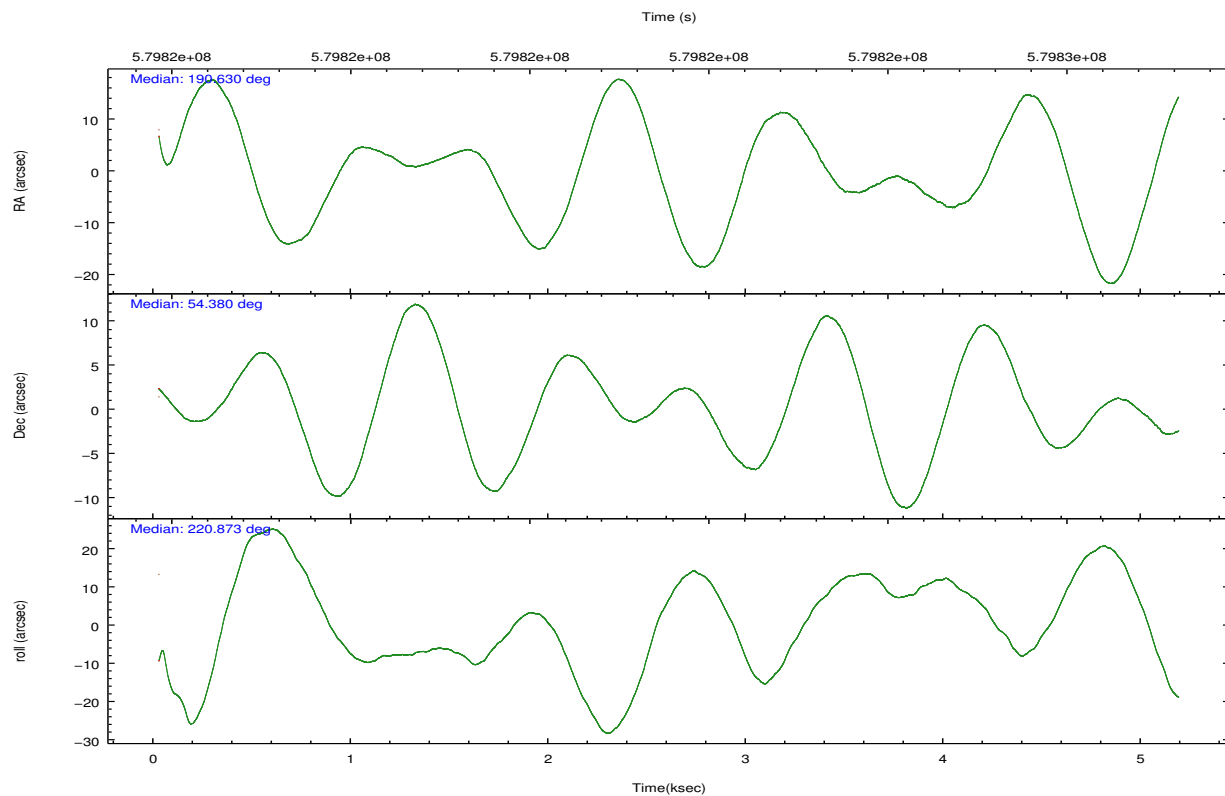
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8	ccd 9		ccd 2	ccd 3	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	31051	29873	28622	32453	37428	34423	grade 0 events	1135	1030	929	1315	3094	2546
rejected events	28129	27022	25559	17511	27010	29640		3%	3%	3%	4%	8%	7%
rejected %	90%	90%	89%	53%	72%	86%	grade 1 events	17	14	15	45	26	37
								0%	0%	0%	0%	0%	0%
							grade 2 events	666	633	792	3237	2423	779
								2%	2%	2%	9%	6%	2%
							grade 3 events	331	306	281	1176	1164	369
								1%	1%	0%	3%	3%	1%
							grade 4 events	276	284	276	1152	1056	331
								0%	0%	0%	3%	2%	0%
							grade 5 events	944	1140	1076	3146	1826	1390
								3%	3%	3%	9%	4%	4%
							grade 6 events	515	600	786	8076	2685	768
								1%	2%	2%	24%	7%	2%
							grade 7 events	27167	25866	24467	14306	25154	28203
								87%	86%	85%	44%	67%	81%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-236789	ACIS-236789	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	190.644130	190.6293653028837	CCD I2 on	O1	Y
[deg] Pointing Dec	54.406281	54.38021470284578	CCD I3 on	O2	Y
[deg] Pointing Roll	220.709973	220.8786581082781	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	Y	Y
[s] Observation start time (MET)	579821380.184000	579820418.1245	CCD S5 on	Y	Y
Observation start date	2016-05-16T21:28:32	2016-05-16T21:13:38	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	579826380.184000	579827691.52492	On-chip summing requested	N	N
Observation end date	2016-05-16T22:51:52	2016-05-16T23:14:51	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



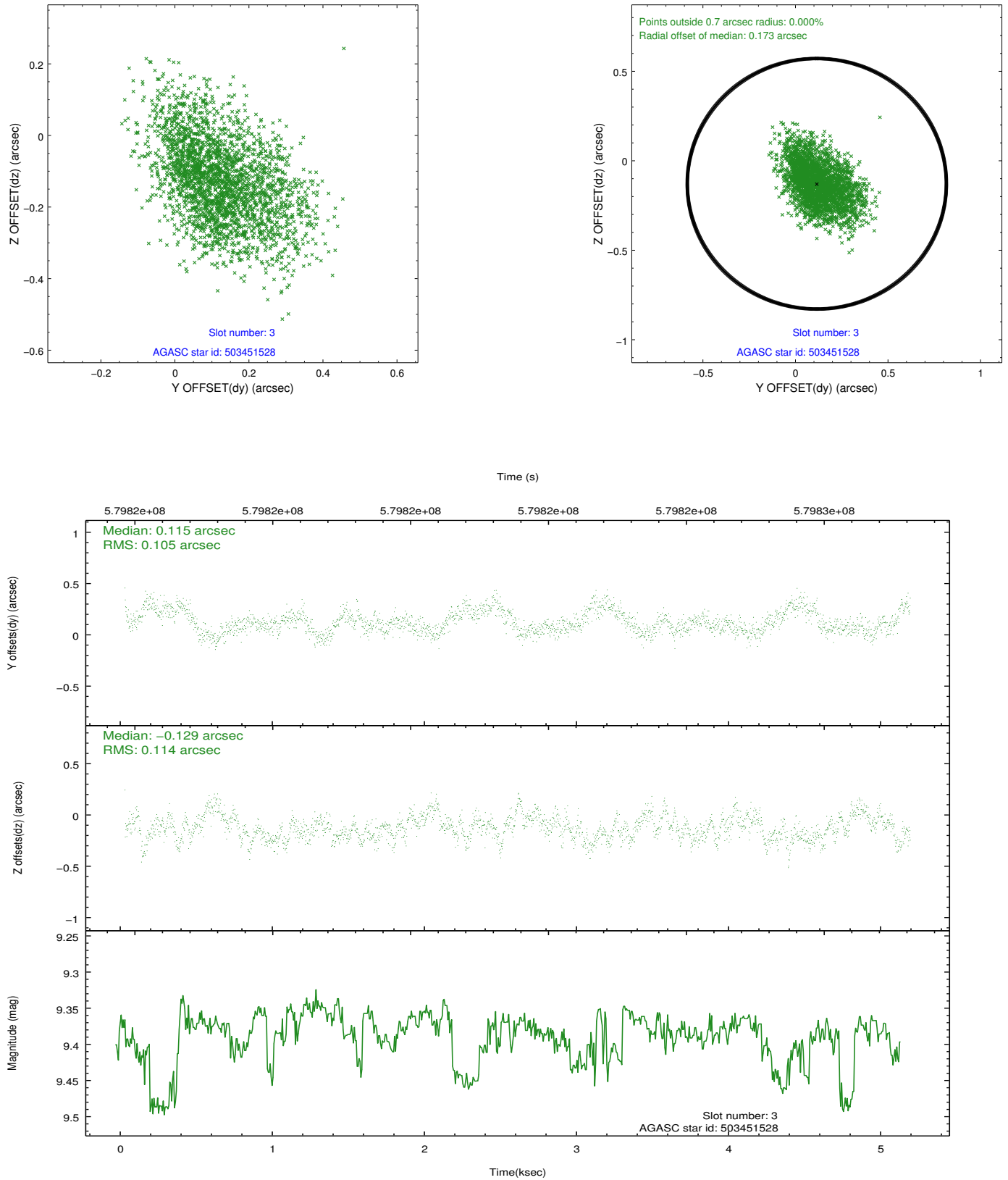


Slot Statistics

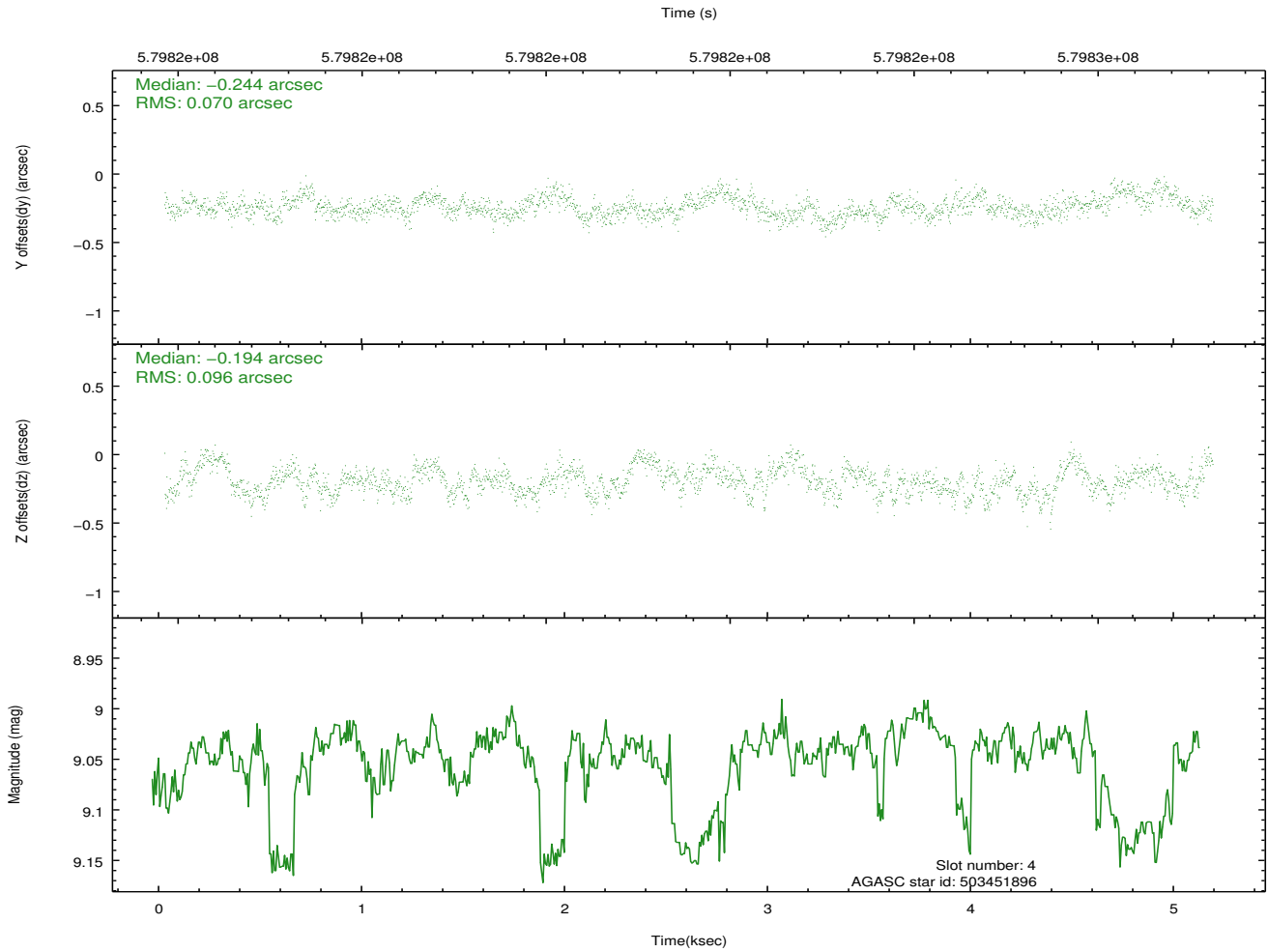
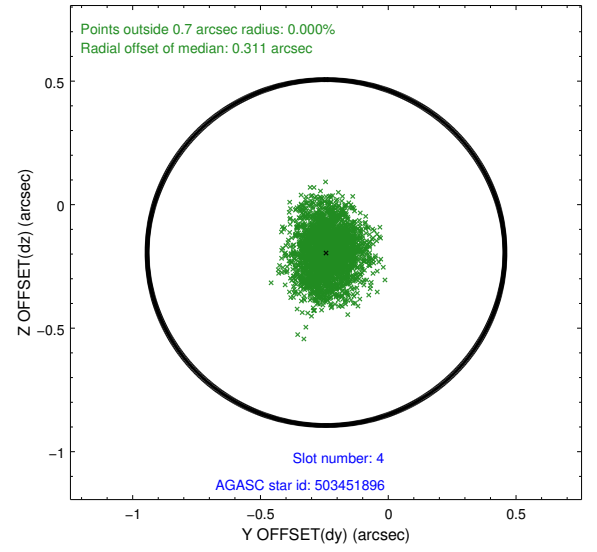
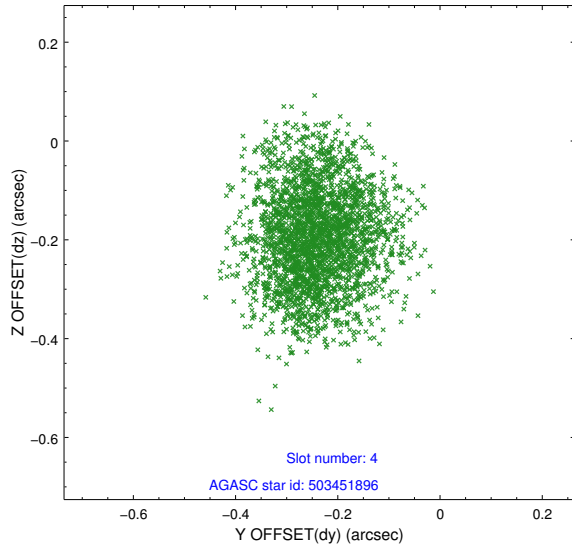
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.12	1260	-0.155	-0.051	0.008	0.012	0.000000	0.000000	-763.91	-1737.40
1	FID		ACIS-S-4	7.24	1260	0.369	0.089	0.006	0.010	0.000000	0.000000	2149.34	170.03
2	FID		ACIS-S-5	7.25	1260	-0.246	-0.028	0.007	0.011	0.000000	0.000000	-1815.36	164.88
3	GUIDE	used	503451528	9.38	2519	0.115	-0.129	0.165	0.273	190.556378	54.203949	615.92	431.43
4	GUIDE	used	503451896	9.05	2519	-0.244	-0.194	0.129	0.203	190.970723	53.808346	877.00	2083.41
5	GUIDE	used	503452288	9.51	2517	-0.180	0.156	0.175	0.271	190.887279	54.092948	347.63	1190.75
6	GUIDE	used	503584072	9.59	2516	0.078	0.268	0.157	0.257	191.279727	54.883261	-2120.54	-447.12
7	GUIDE	used	503587352	9.68	2517	0.215	-0.065	0.271	0.456	191.378610	54.596714	-1613.64	472.96

2.4 Star Slots

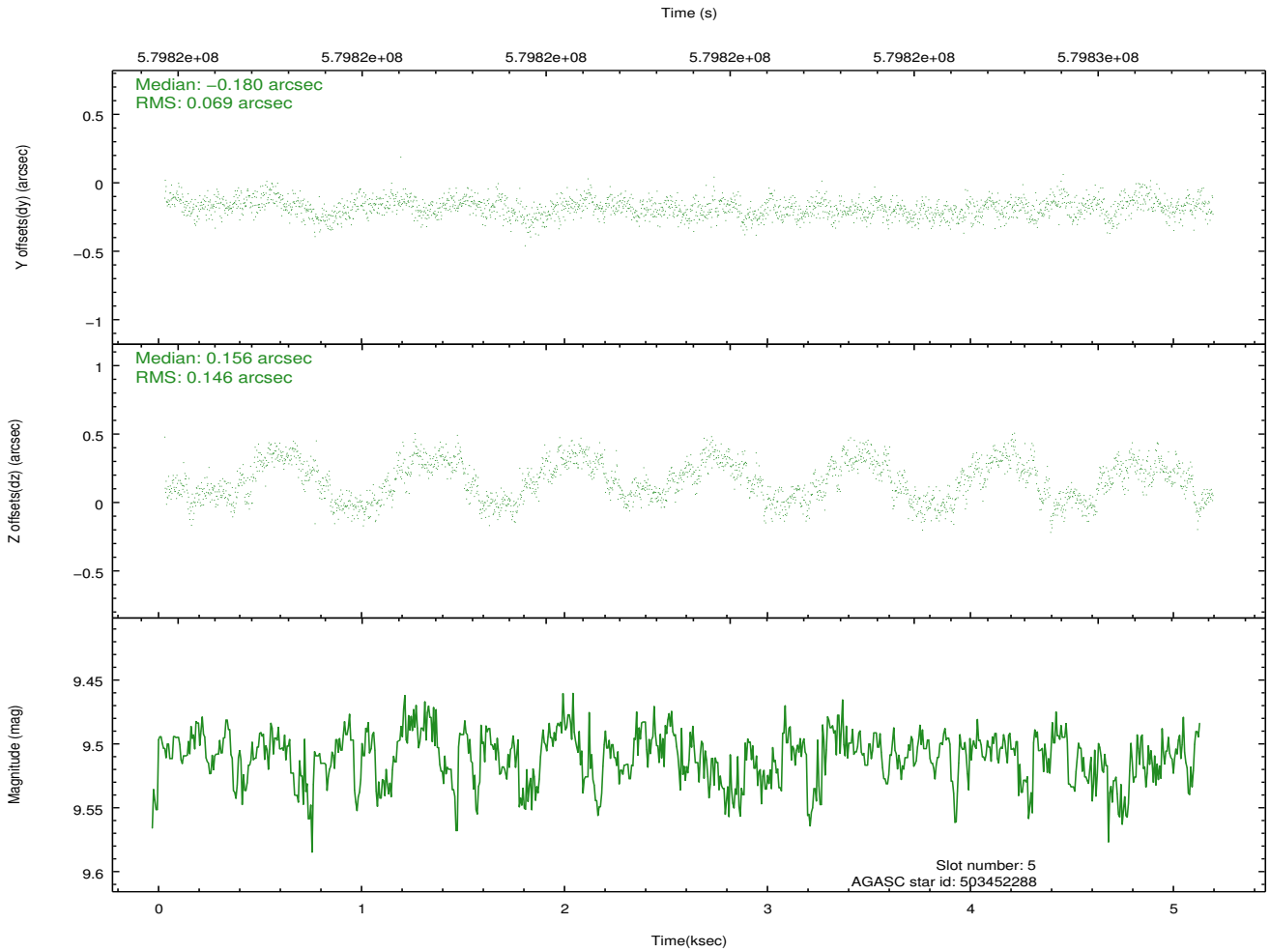
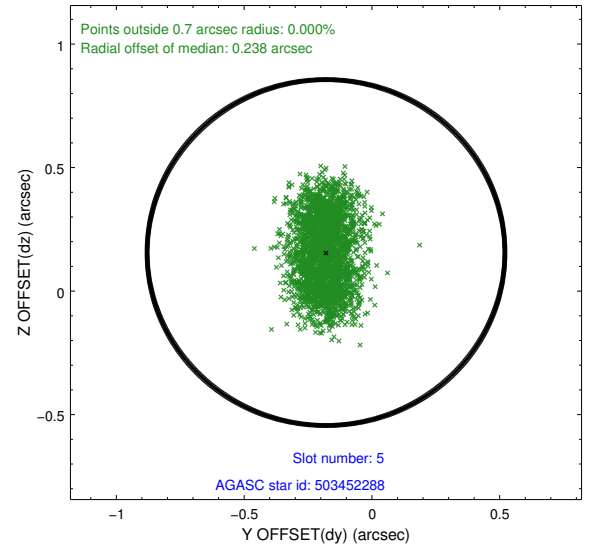
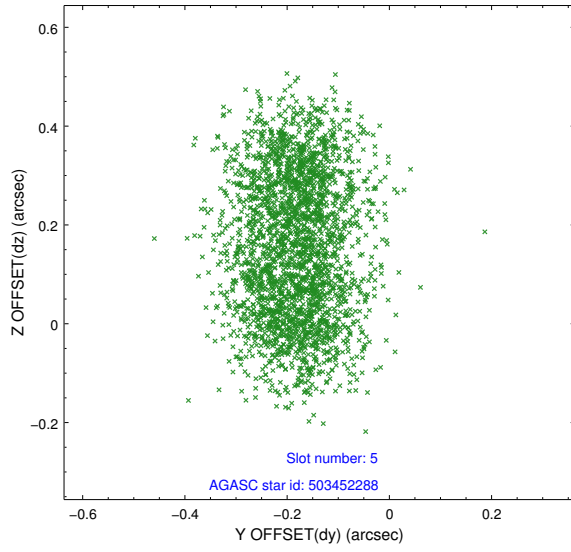
2.4.1 Slot 3



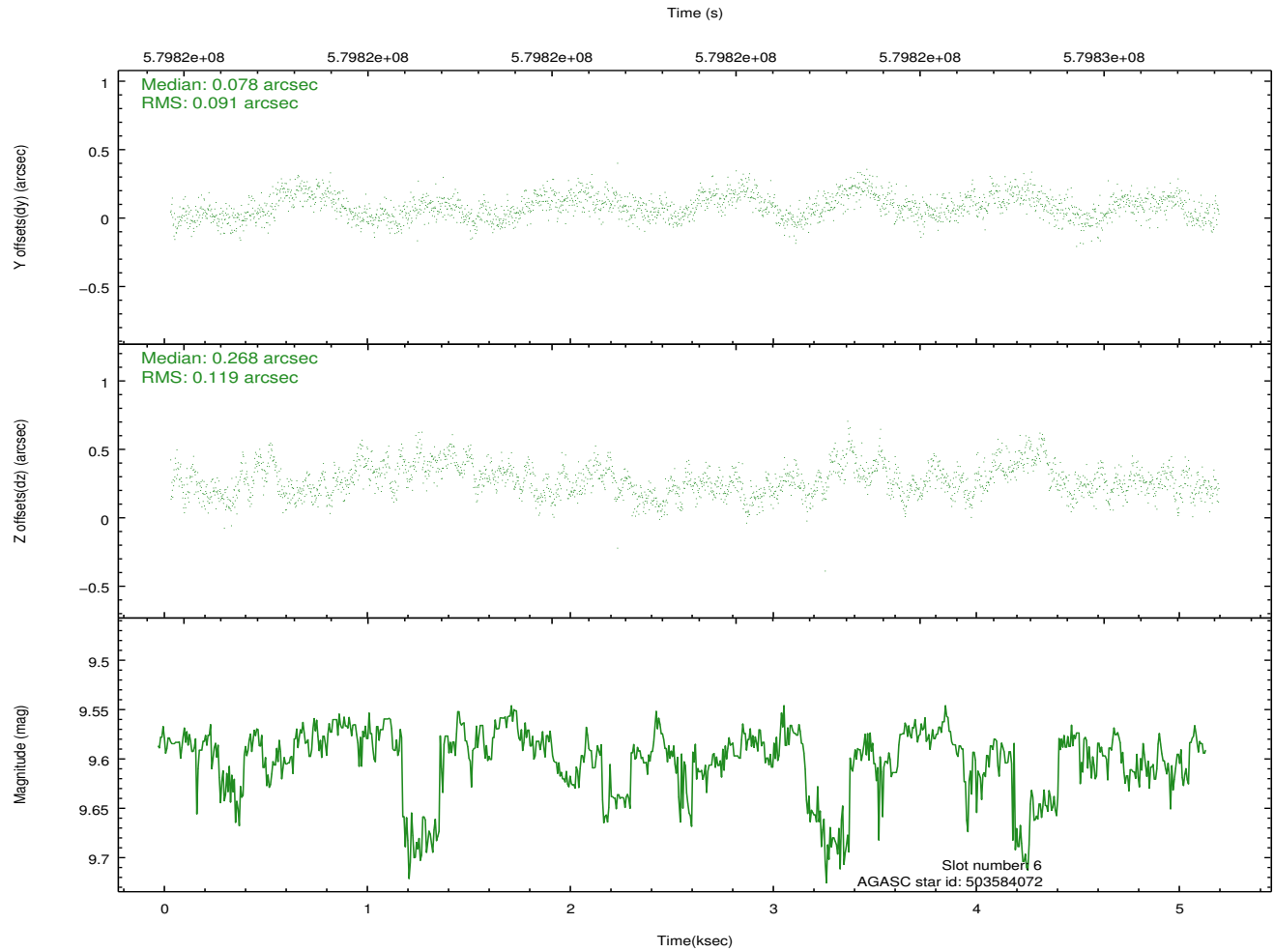
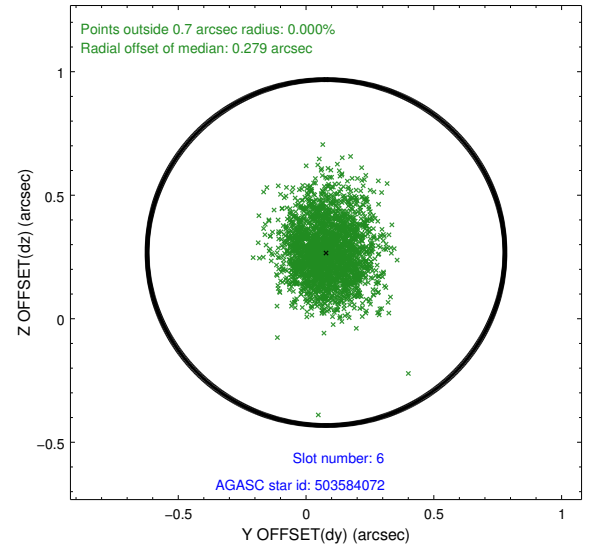
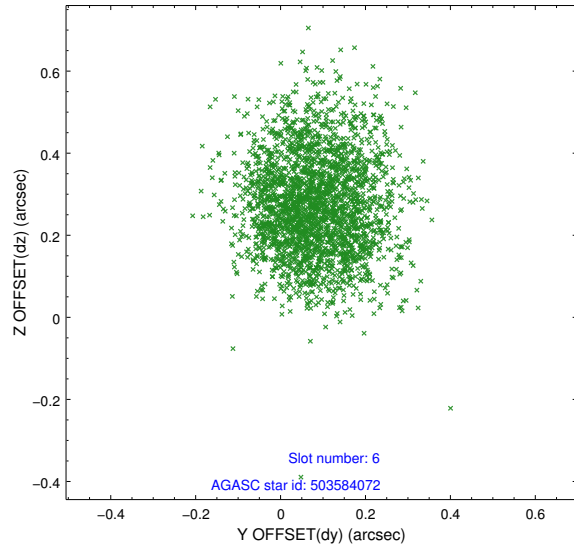
2.4.2 Slot 4



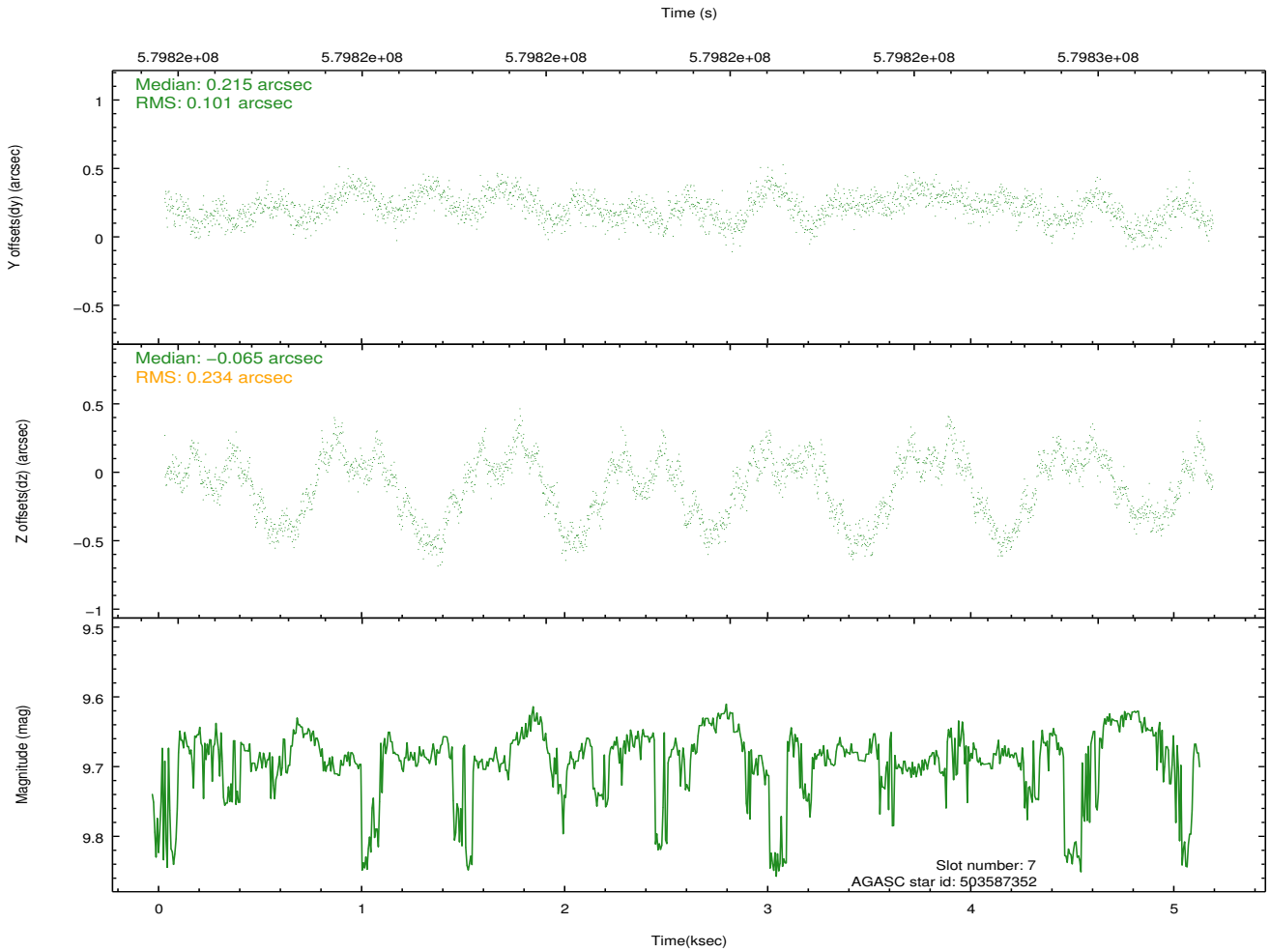
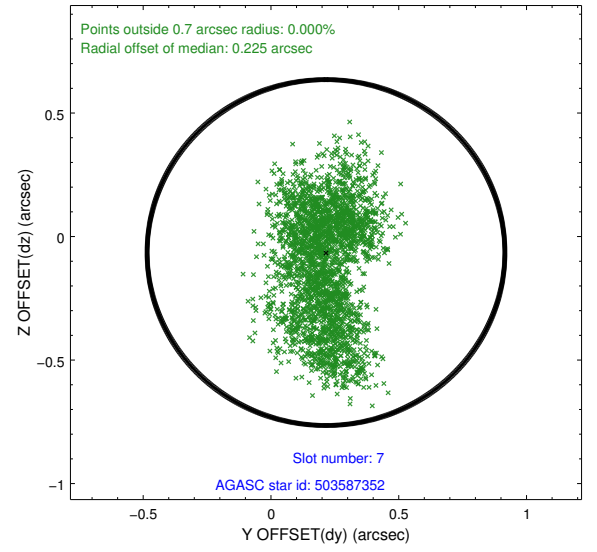
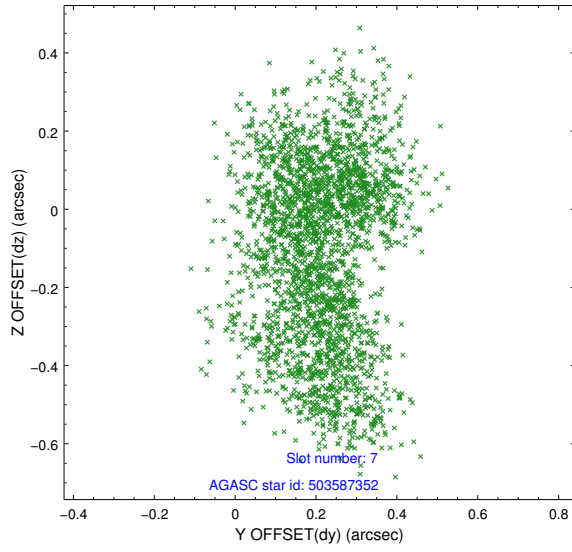
2.4.3 Slot 5



2.4.4 Slot 6

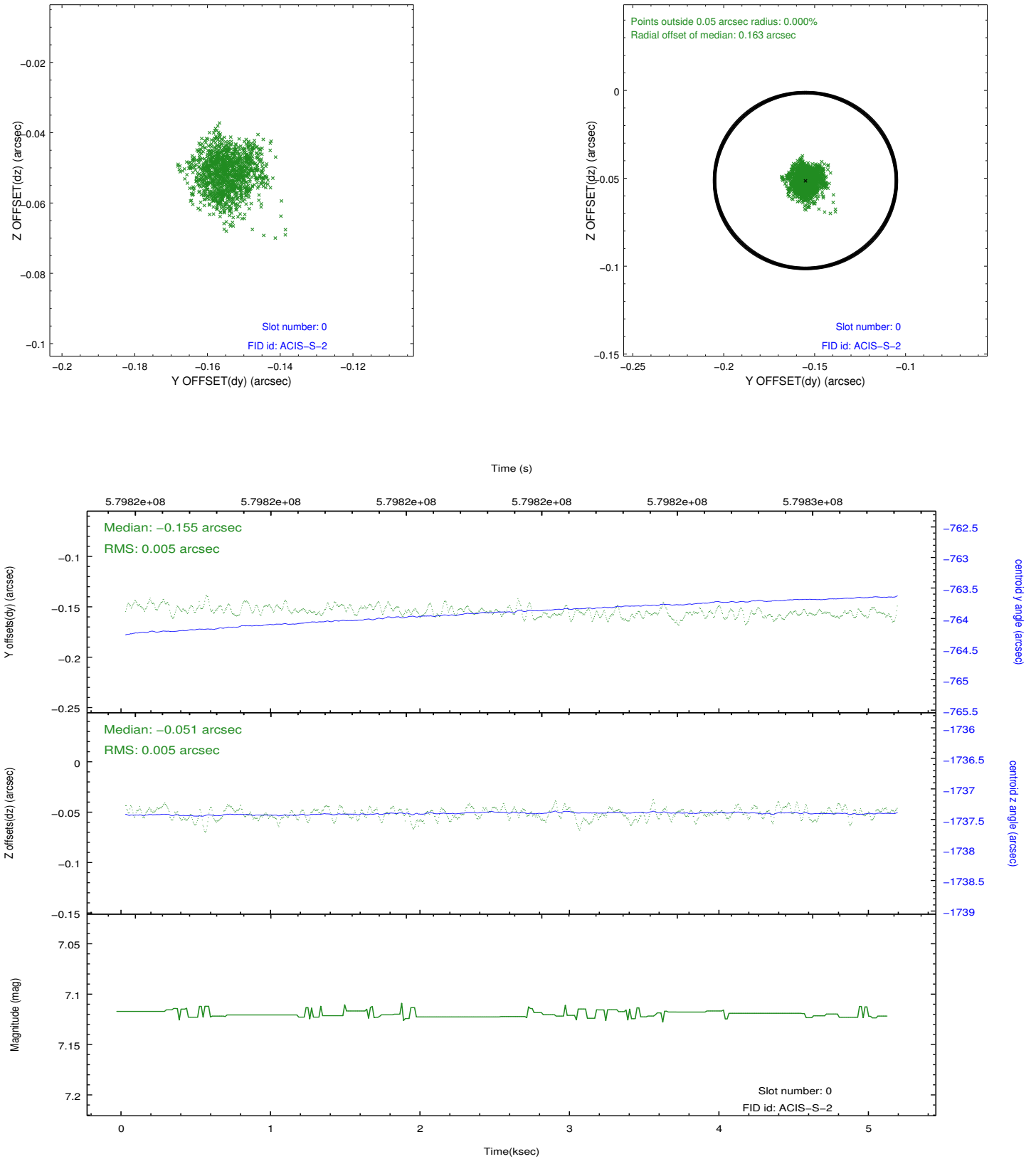


2.4.5 Slot 7

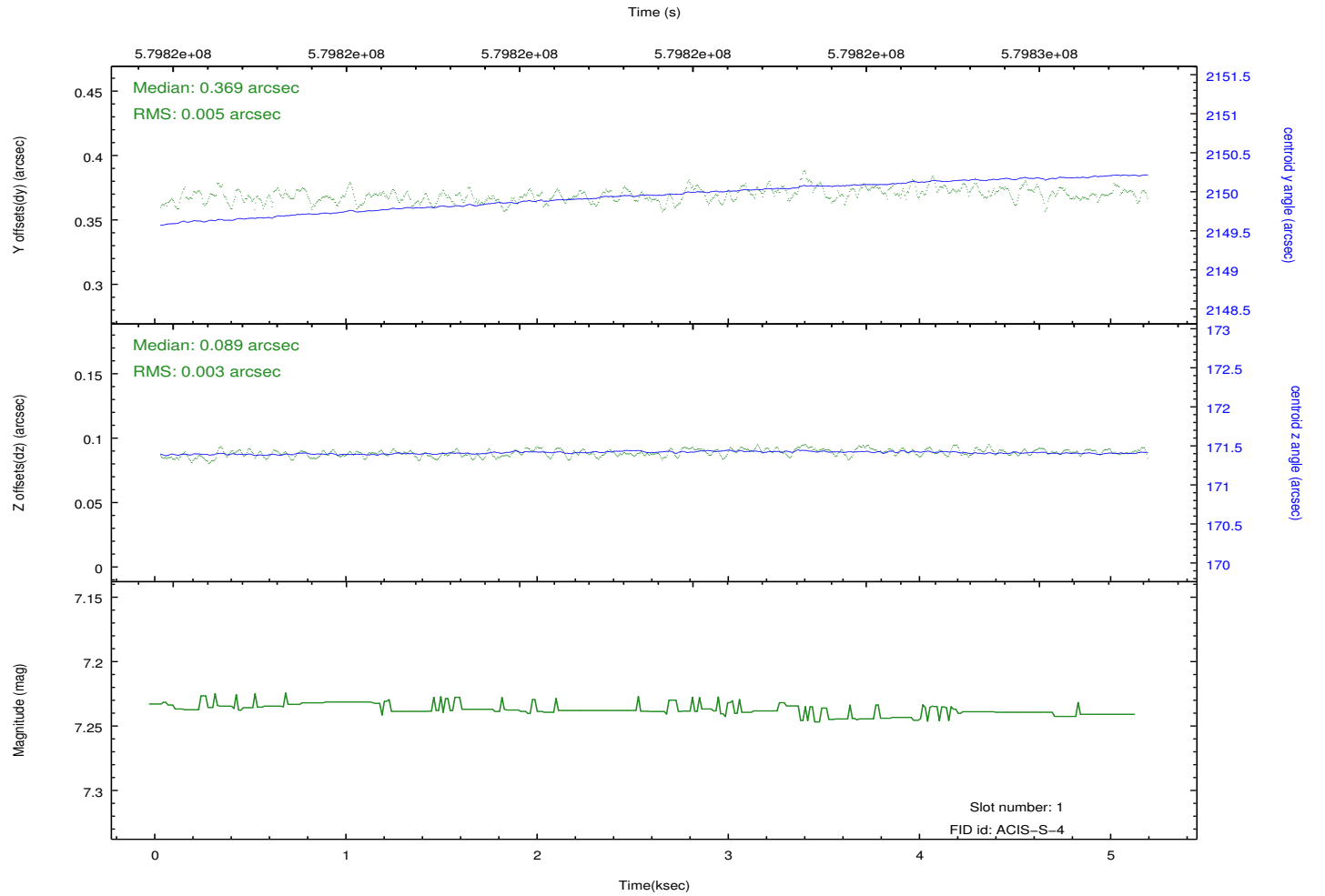
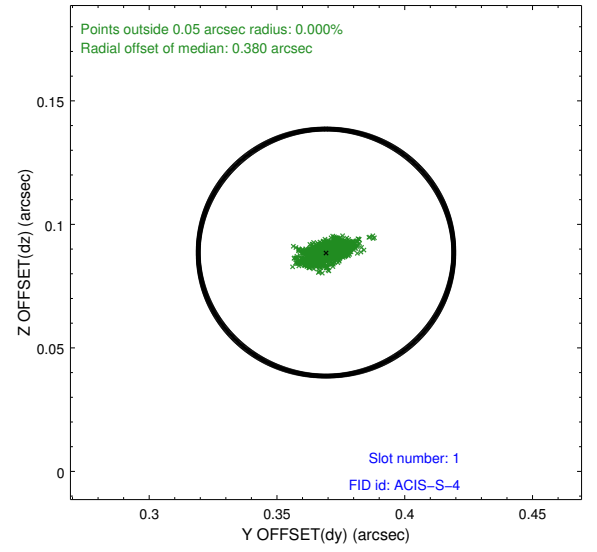
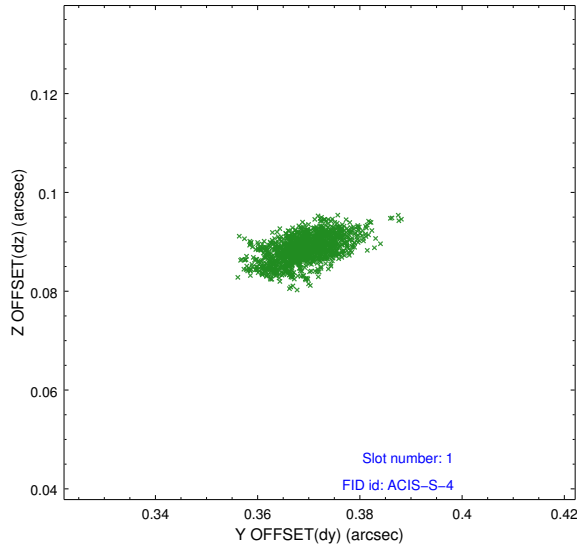


2.5 FID Slots

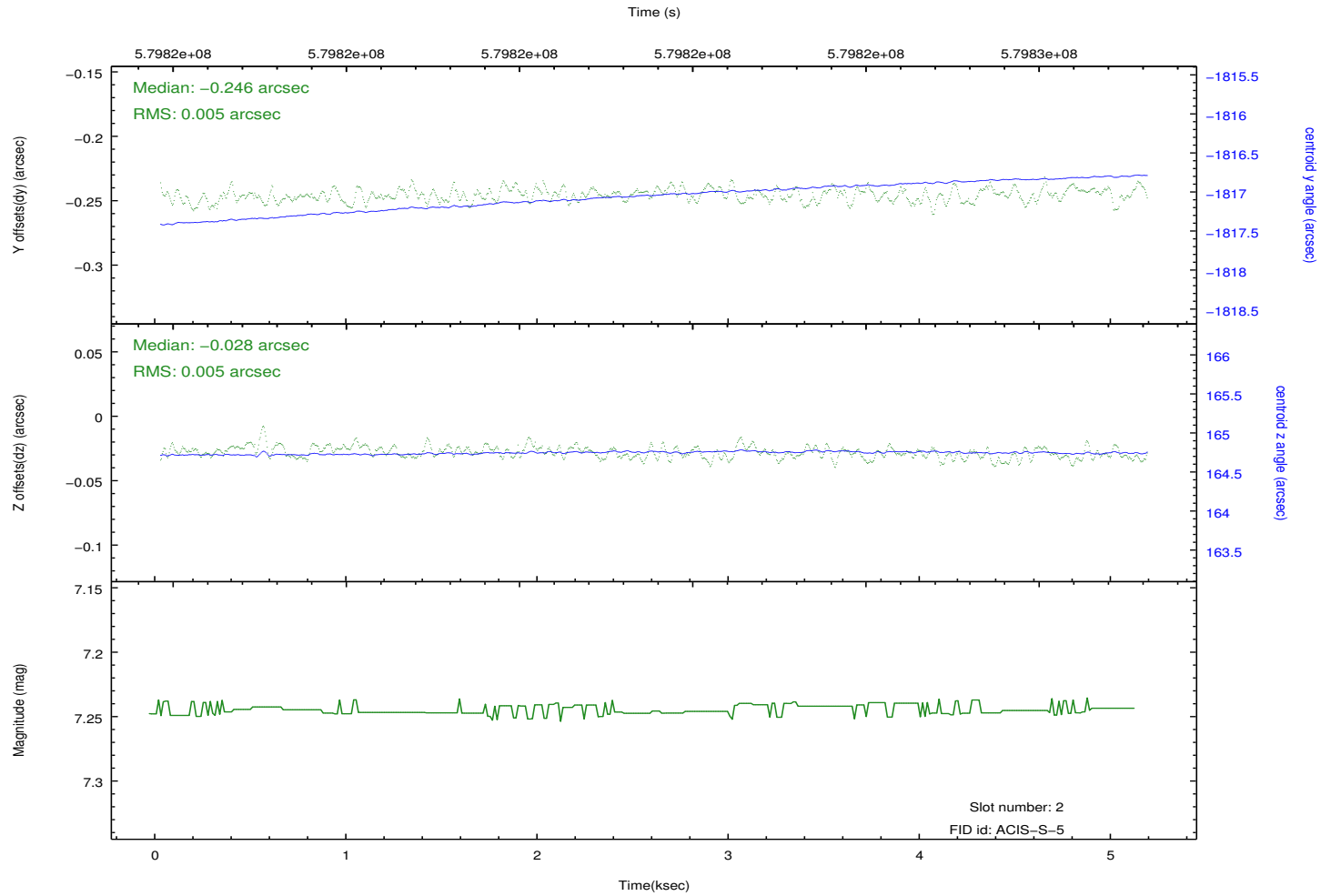
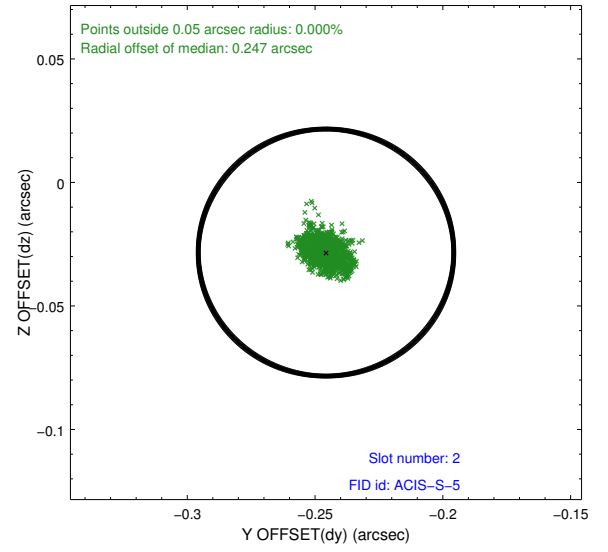
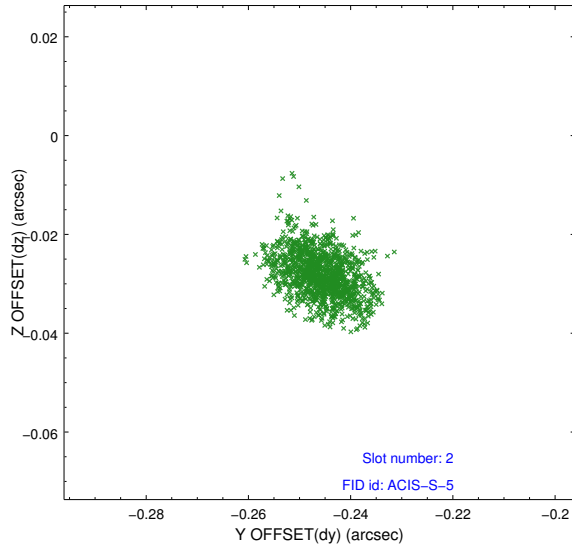
2.5.1 Slot 0



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)	2016.05.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.9278377304077

A.2 Comments