

V&V Reference Report

L2 ASCDS Version : 10.4.1

Observation 17025 - L2 Version 1
Chandra X-Ray Center

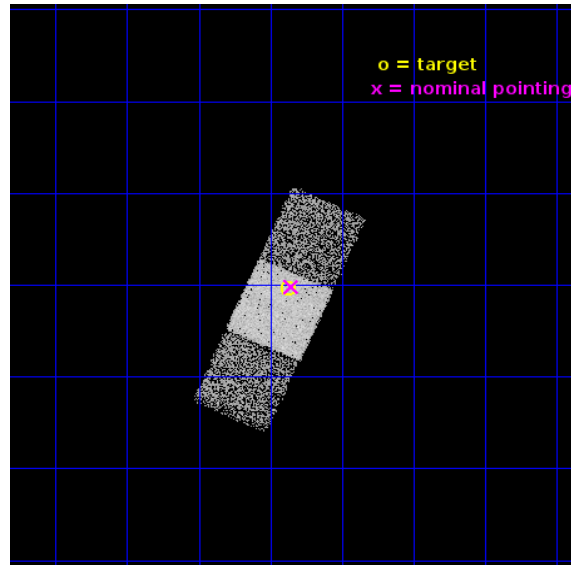
L2 Processing Date : Sep 3 2015

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1 Front

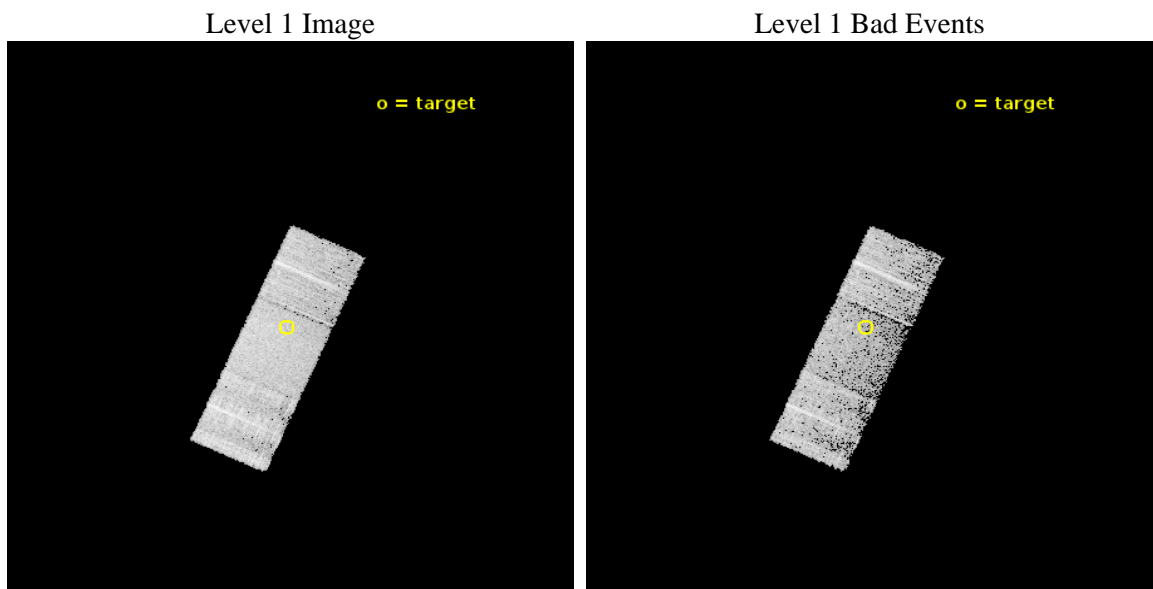
seq_num	703029	Sequence number
obs_id	17025	Observation id
title	Shielding Gas Variations in Transforming Broad Absorption Line Quasars	Proposal title
observer	Prof. William Brandt	Principal investigator
object	SDSS J0040+0059	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	10.093333	Observer's specified target RA [deg]
dec_targ	0.994333	Observer's specified target Dec [deg]
ra_nom	10.088407085352	Nominal RA [deg]
dec_nom	0.99676282666807	Nominal Dec [deg]
roll_nom	114.15670049623	Nominal Roll [deg]
revision	1	Processing version of data
ontime	6881.8348433971	Sum of GTIs [s]
livetime	6791.9186048351	Livetime [s]
ontime6	6881.7938034534	Sum of GTIs [s]
ontime7	6881.8348433971	Sum of GTIs [s]
ontime8	6881.7527633905	Sum of GTIs [s]
l2events	25096	Number of level 2 events



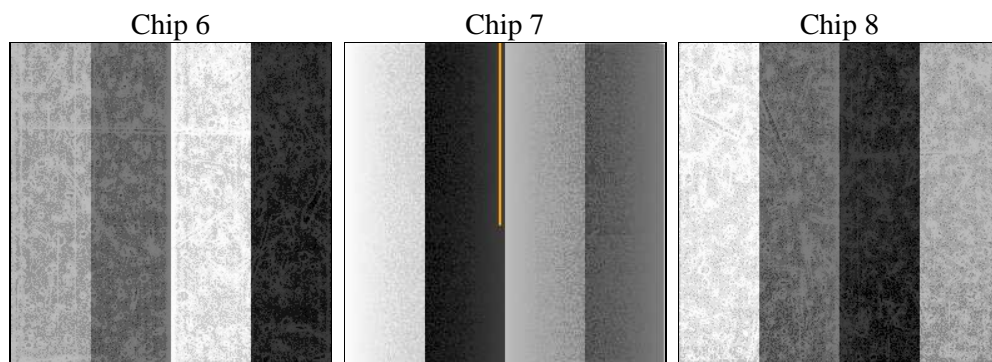
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	2	Obi number	sched_exp_time	6801.505000	[s] Scheduled observation exposure time
ascdsver	10.4.1	Processing system revision	ontime	6881.8348433971	Sum of GTIs [s]
caldsver	4.6.8	 	ontime6	6881.7938034534	Sum of GTIs [s]
date	2015-09-04T03:05:10	Date and time of file creation	ontime7	6881.8348433971	Sum of GTIs [s]
revision	1	Processing version of data	ontime8	6881.7527633905	Sum of GTIs [s]
			l1events	119457	Number of level 1 events

2.1.4 Events

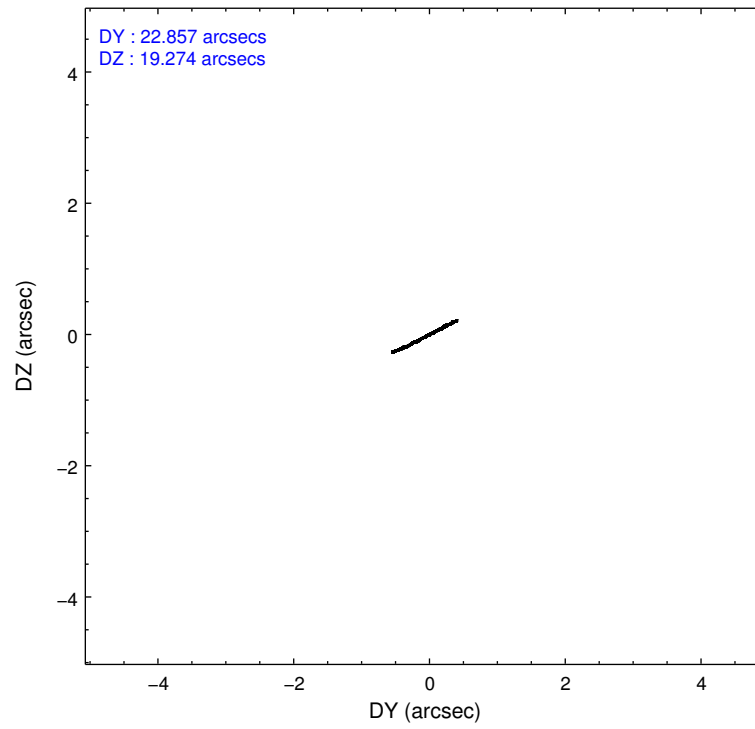
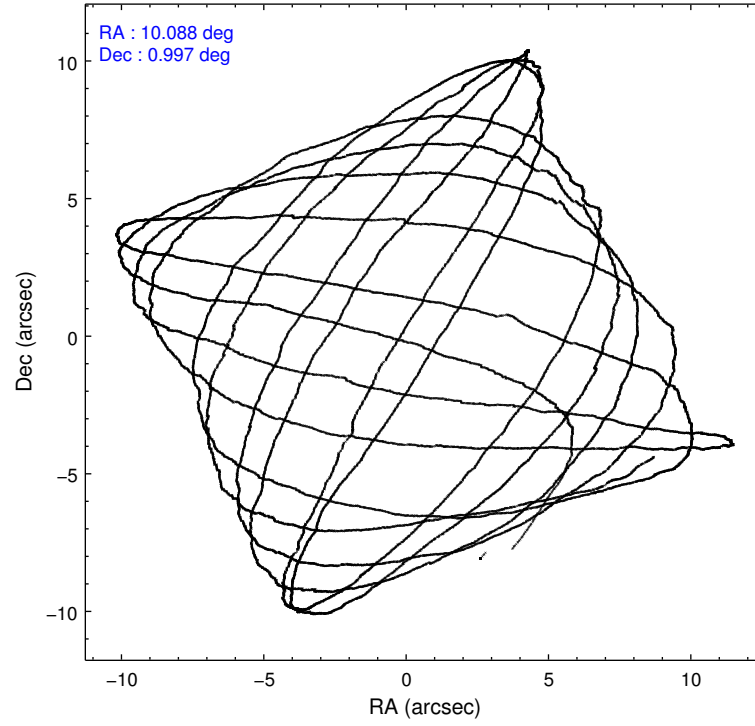
	ccd 6	ccd 7	ccd 8
level 1 events	34981	39652	44824
rejected events	30933	21207	31498
rejected %	88%	53%	70%

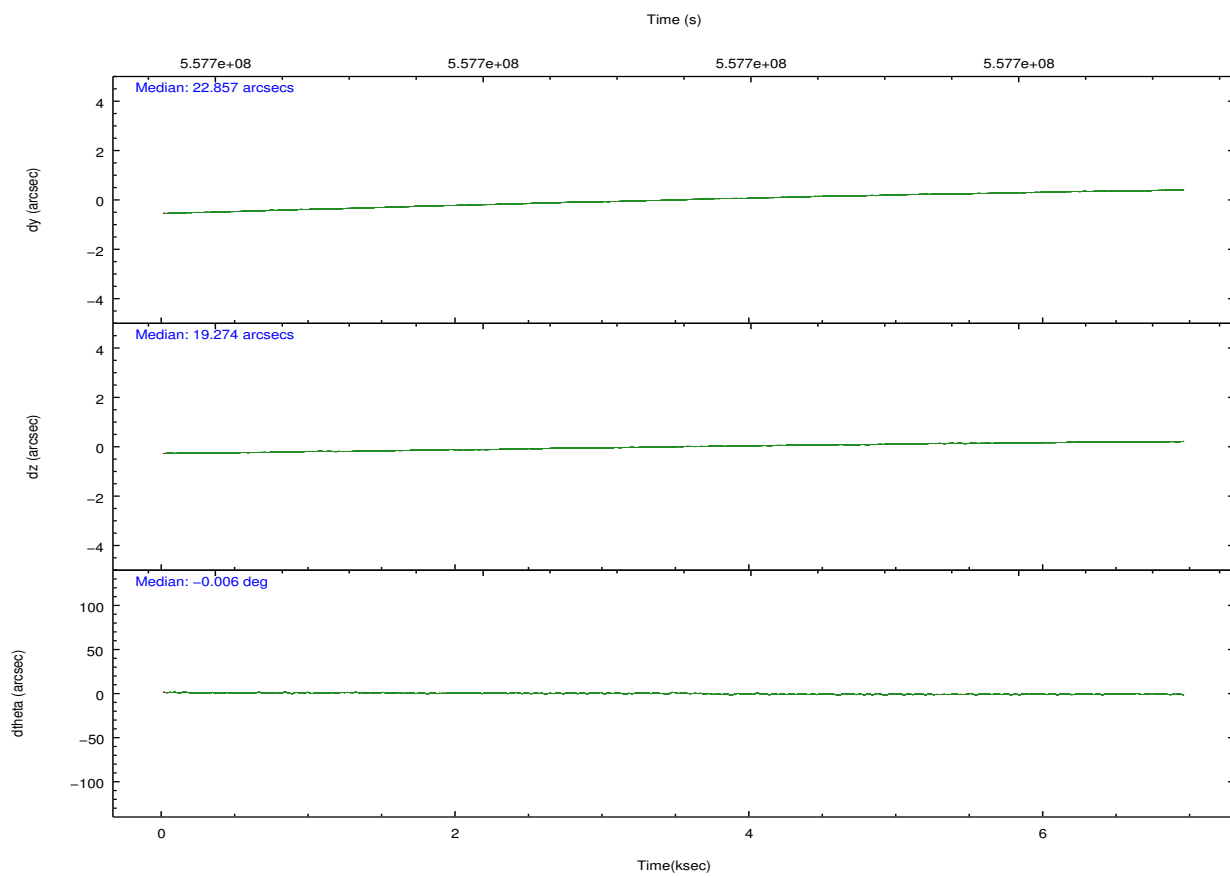
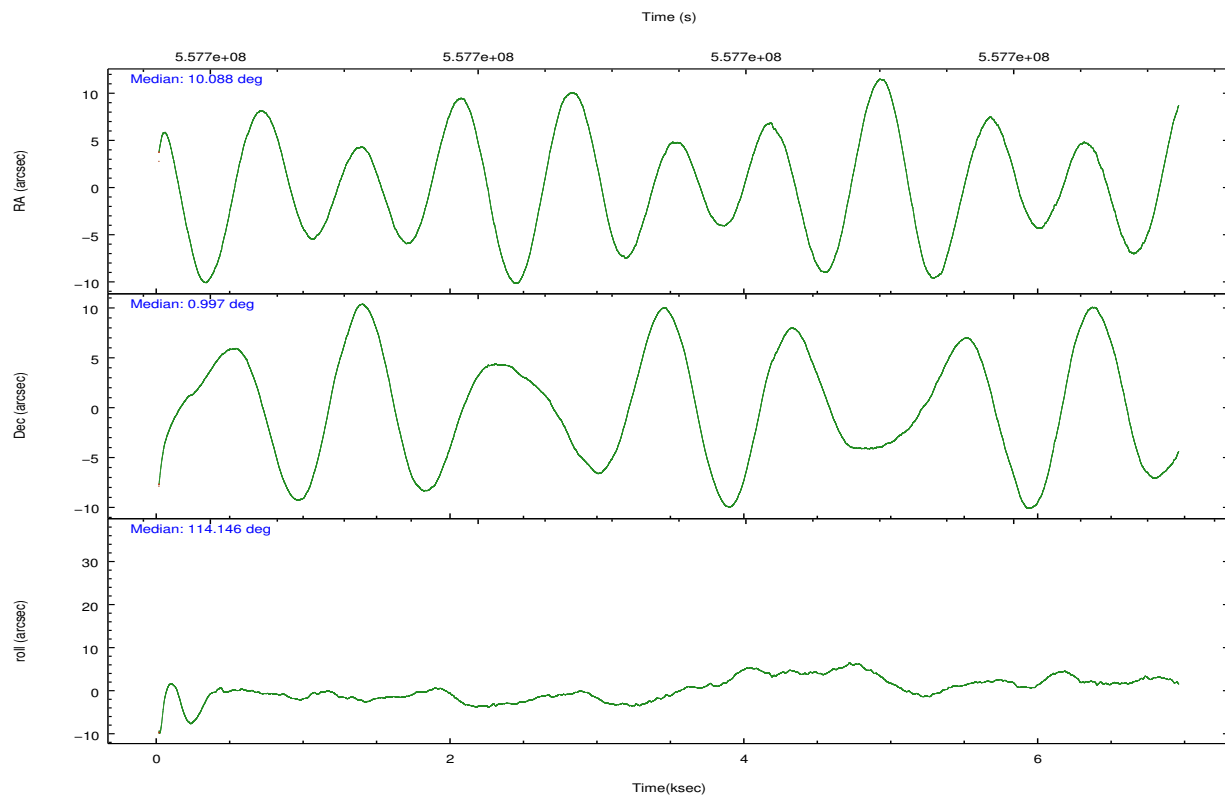
	ccd 6	ccd 7	ccd 8
grade 0 events	1375	1746	3707
	3%	4%	8%
grade 1 events	18	57	34
	0%	0%	0%
grade 2 events	968	3954	3060
	2%	9%	6%
grade 3 events	400	1545	1452
	1%	3%	3%
grade 4 events	411	1547	1403
	1%	3%	3%
grade 5 events	1535	4104	2302
	4%	10%	5%
grade 6 events	898	9660	3707
	2%	24%	8%
grade 7 events	29376	17039	29159
	83%	42%	65%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-678	ACIS-678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	10.110942	10.08840708535155	Subarray requested	NONE	NONE
[deg] Pointing Dec	0.981013	0.9967628266680653	Alternating exposures requested	N	N
[deg] Pointing Roll	113.999700	114.1567004962274	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	557696095.184000	557694769.7304699			
Observation start date	2015-09-03T19:33:47	2015-09-03T19:12:49			
[s] Observation end time (MET)	557702896.184000	557703123.99344			
Observation end date	2015-09-03T21:27:08	2015-09-03T21:32:03			
Read mode	TIMED	TIMED			

2.3 Aspect



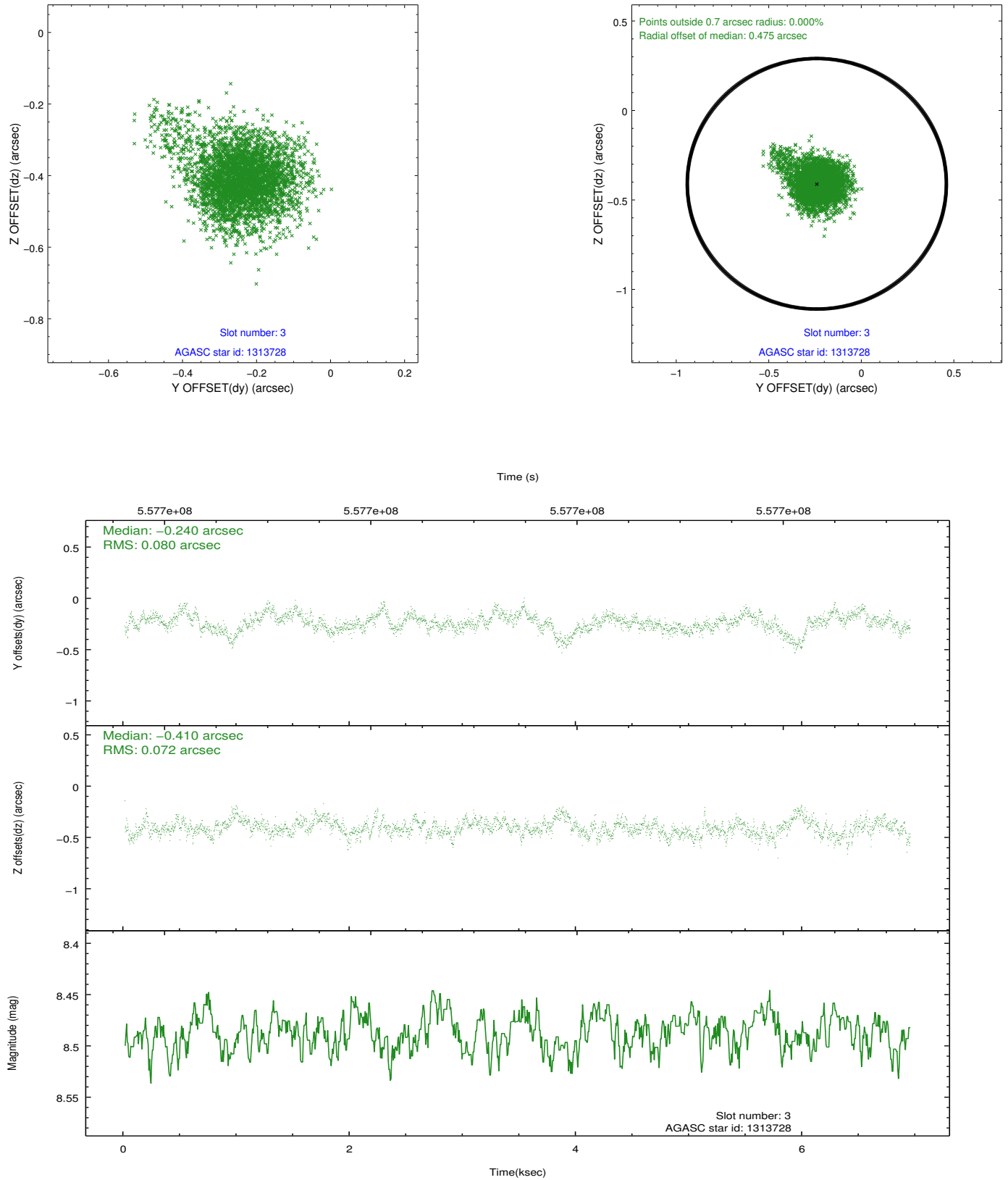


Slot Statistics

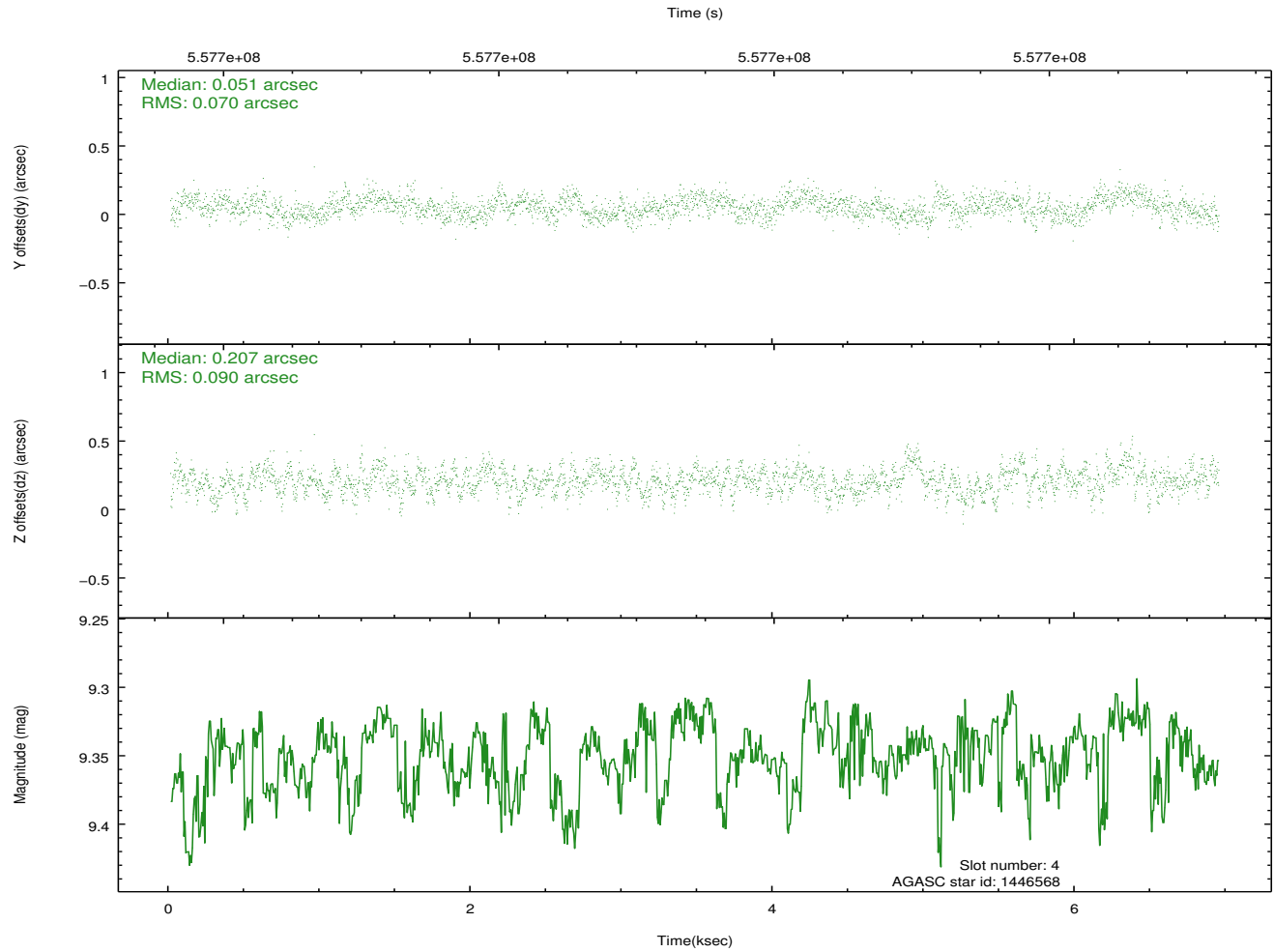
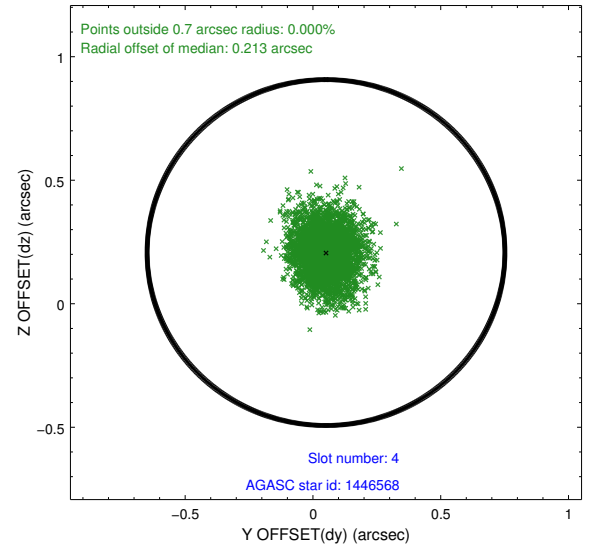
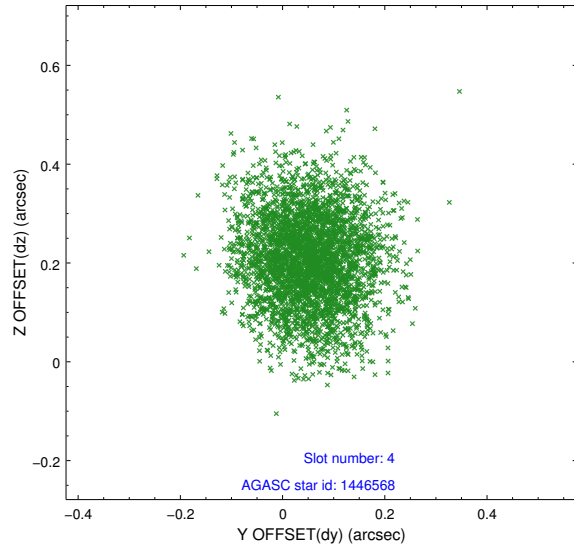
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.21	1694	0.050	-0.040	0.014	0.020	0.000000	0.000000	920.10	-1736.36
1	FID		ACIS-S-4	7.22	1694	0.294	0.009	0.018	0.027	0.000000	0.000000	2138.17	167.01
2	FID		ACIS-S-5	7.24	1693	-0.369	0.043	0.010	0.016	0.000000	0.000000	-1828.17	161.50
3	GUIDE	used	1313728	8.49	3386	-0.240	-0.410	0.109	0.196	9.948618	1.012743	341.73	487.14
4	GUIDE	used	1446568	9.35	3384	0.051	0.207	0.121	0.198	10.345096	0.709207	-1236.46	-373.00
5	GUIDE	used	1449360	8.89	3368	0.045	0.163	0.151	0.241	10.210501	1.173717	487.93	-609.41
6	GUIDE	used	1444432	8.95	3385	0.084	-0.052	0.152	0.268	10.475140	1.798010	2154.72	-2393.63
7	GUIDE	used	1451184	7.80	3386	0.084	0.093	0.088	0.142	10.528007	1.063449	-338.64	-1492.33

2.4 Star Slots

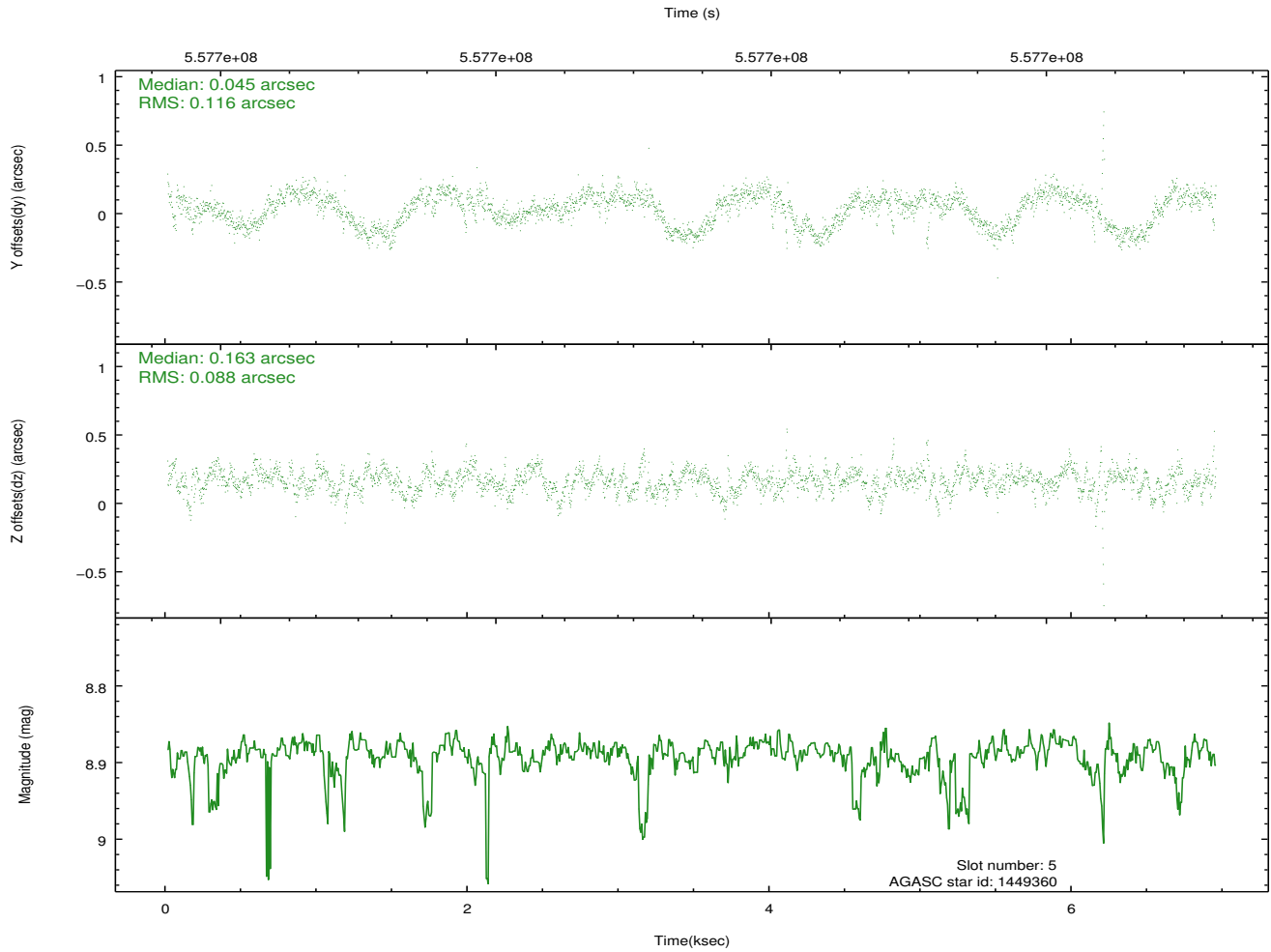
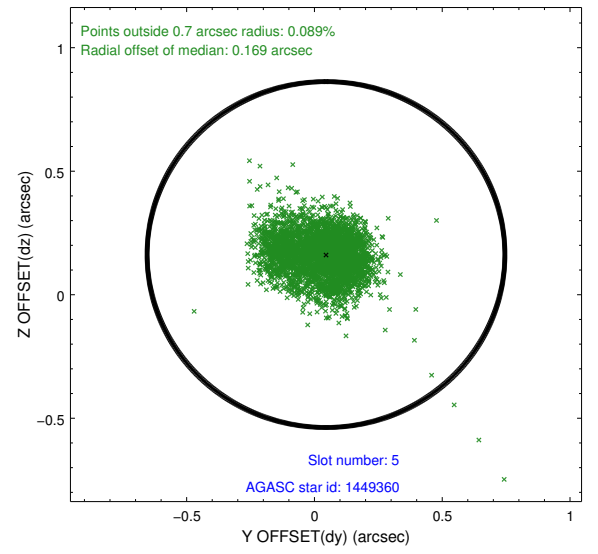
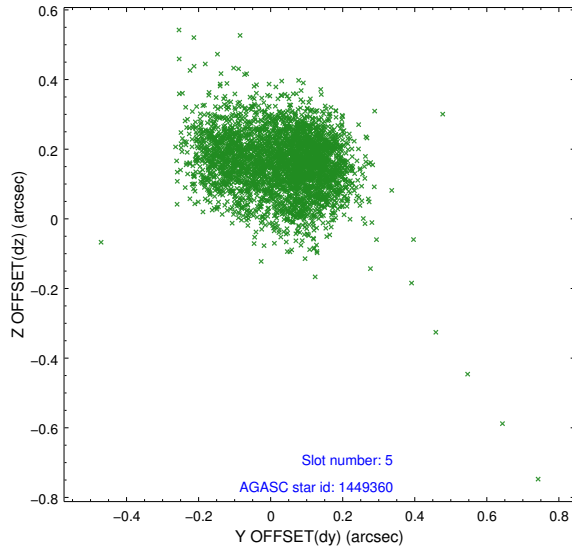
2.4.1 Slot 3



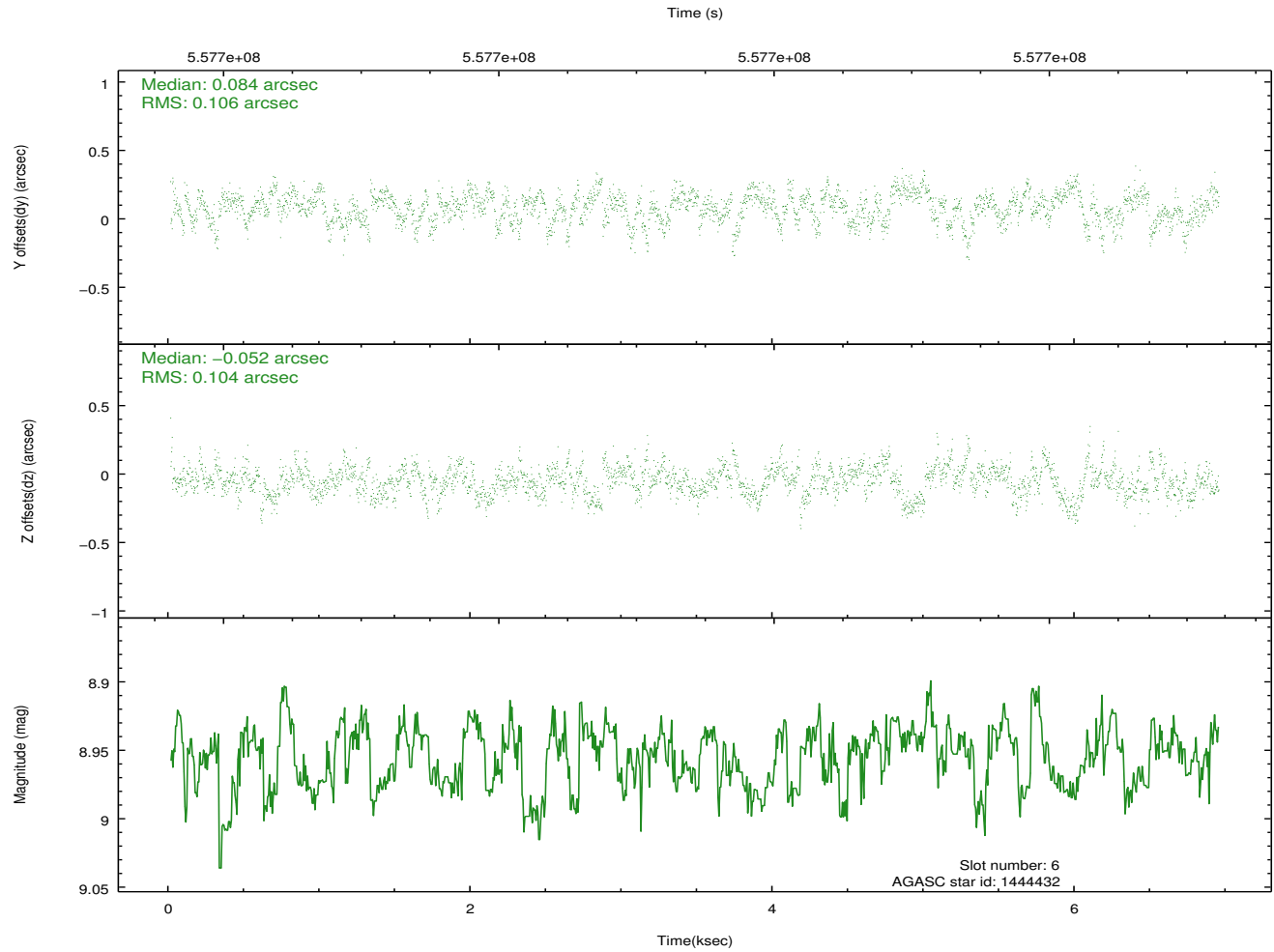
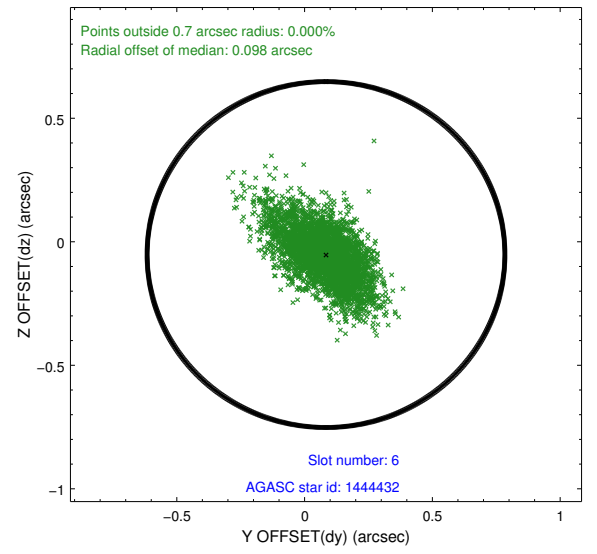
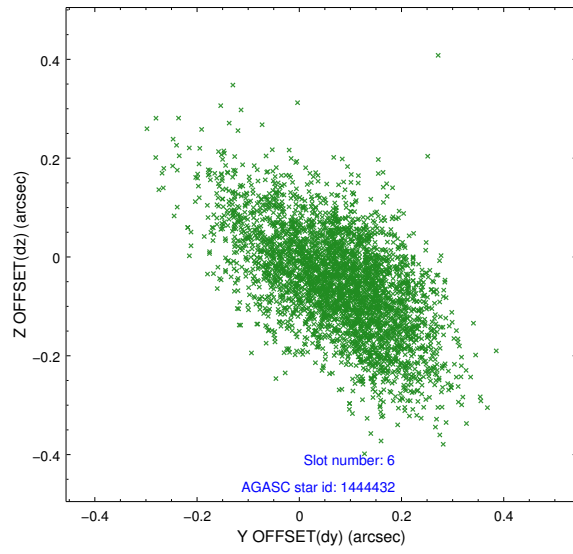
2.4.2 Slot 4



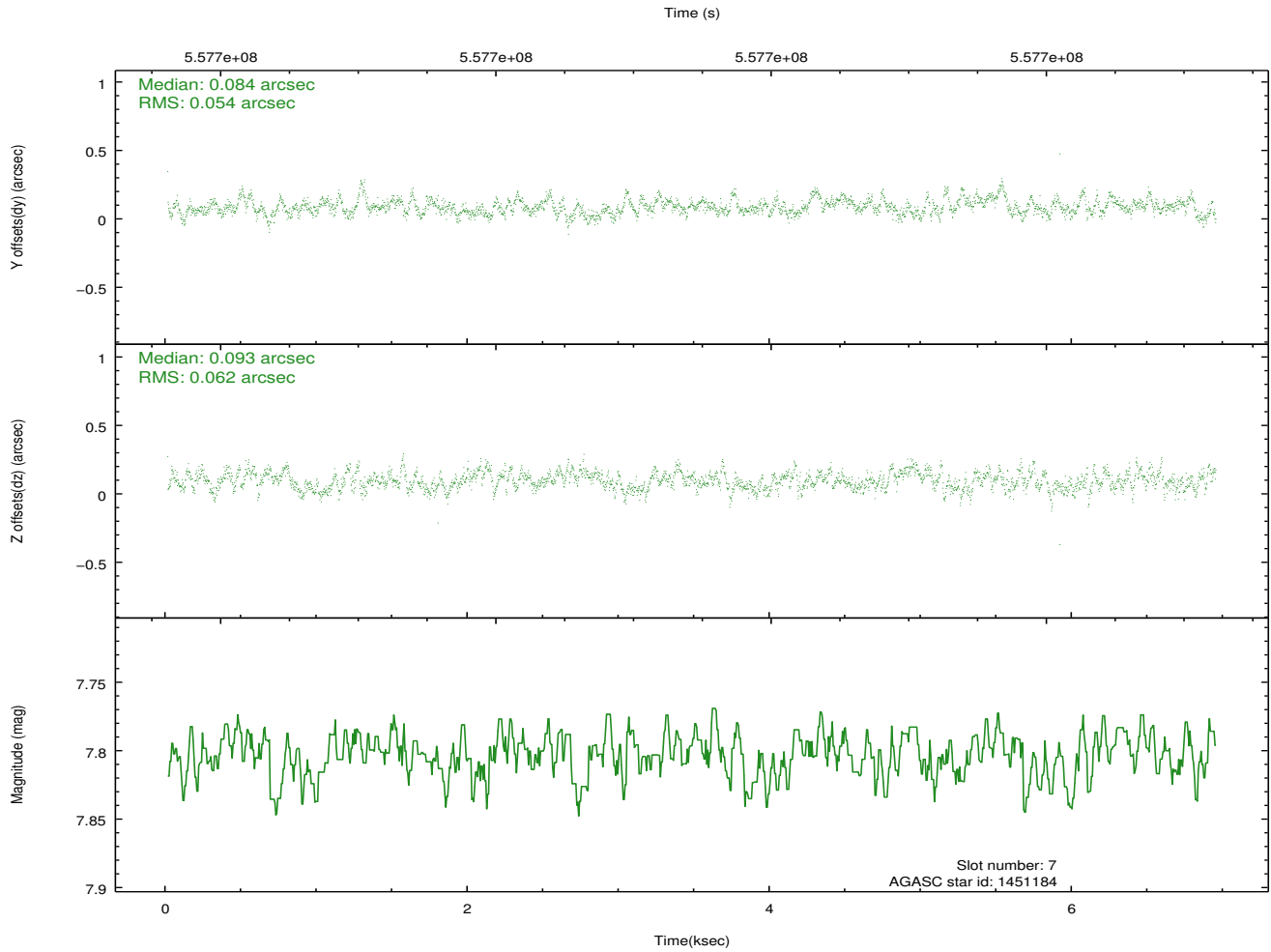
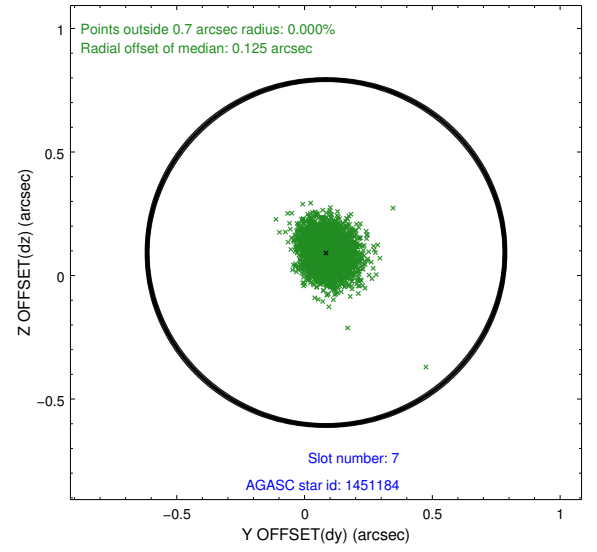
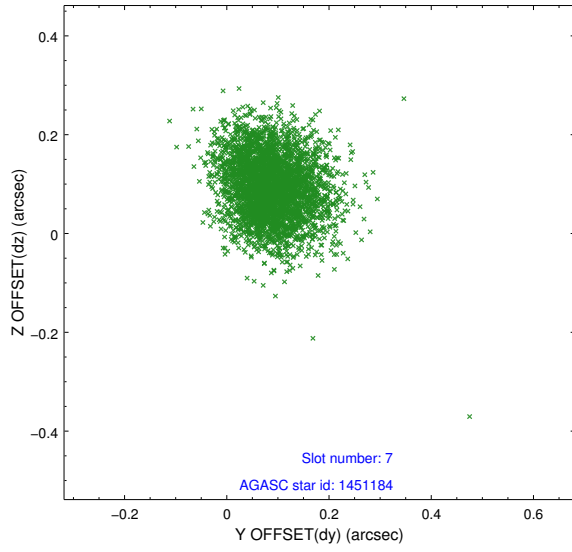
2.4.3 Slot 5



2.4.4 Slot 6

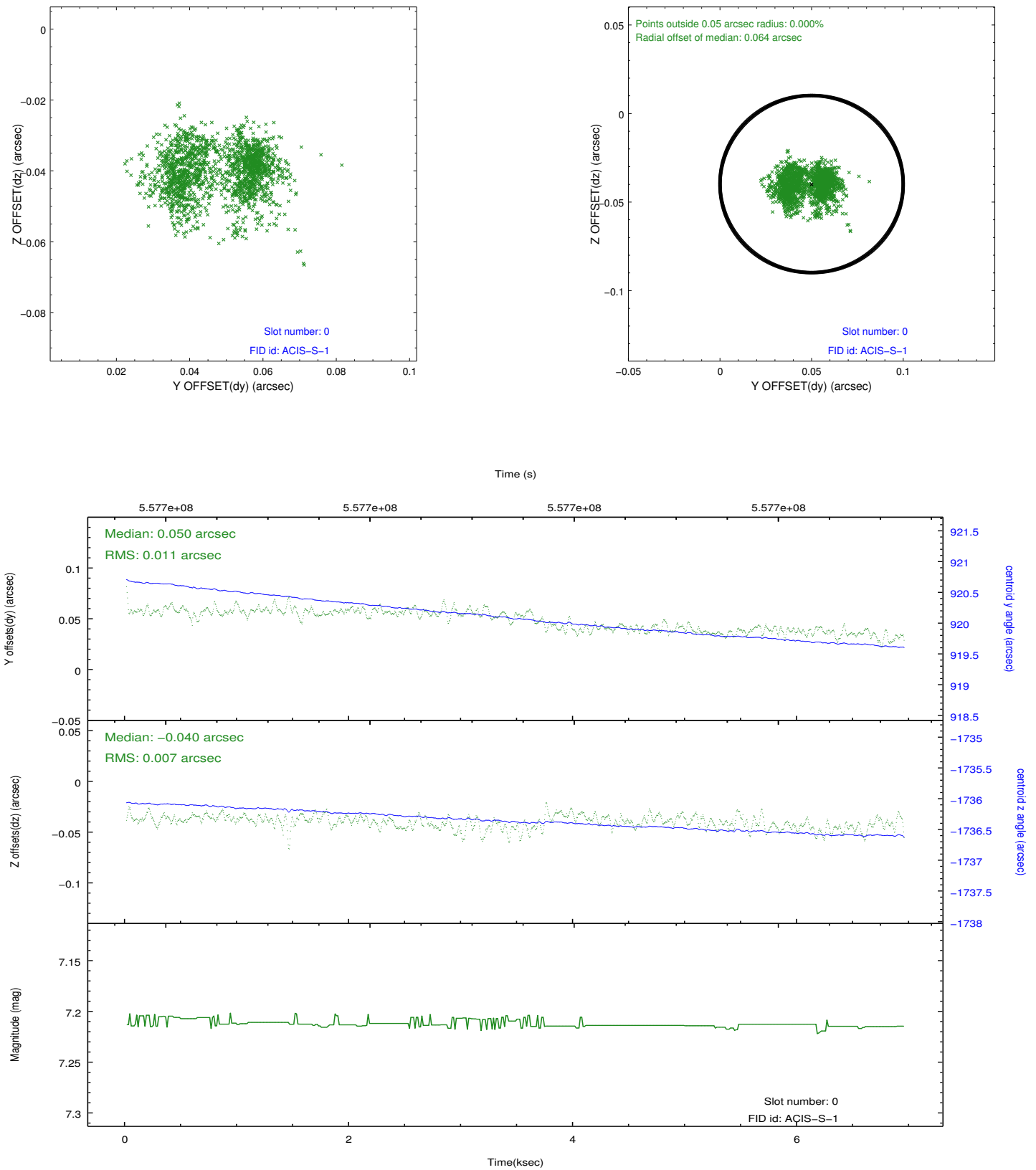


2.4.5 Slot 7

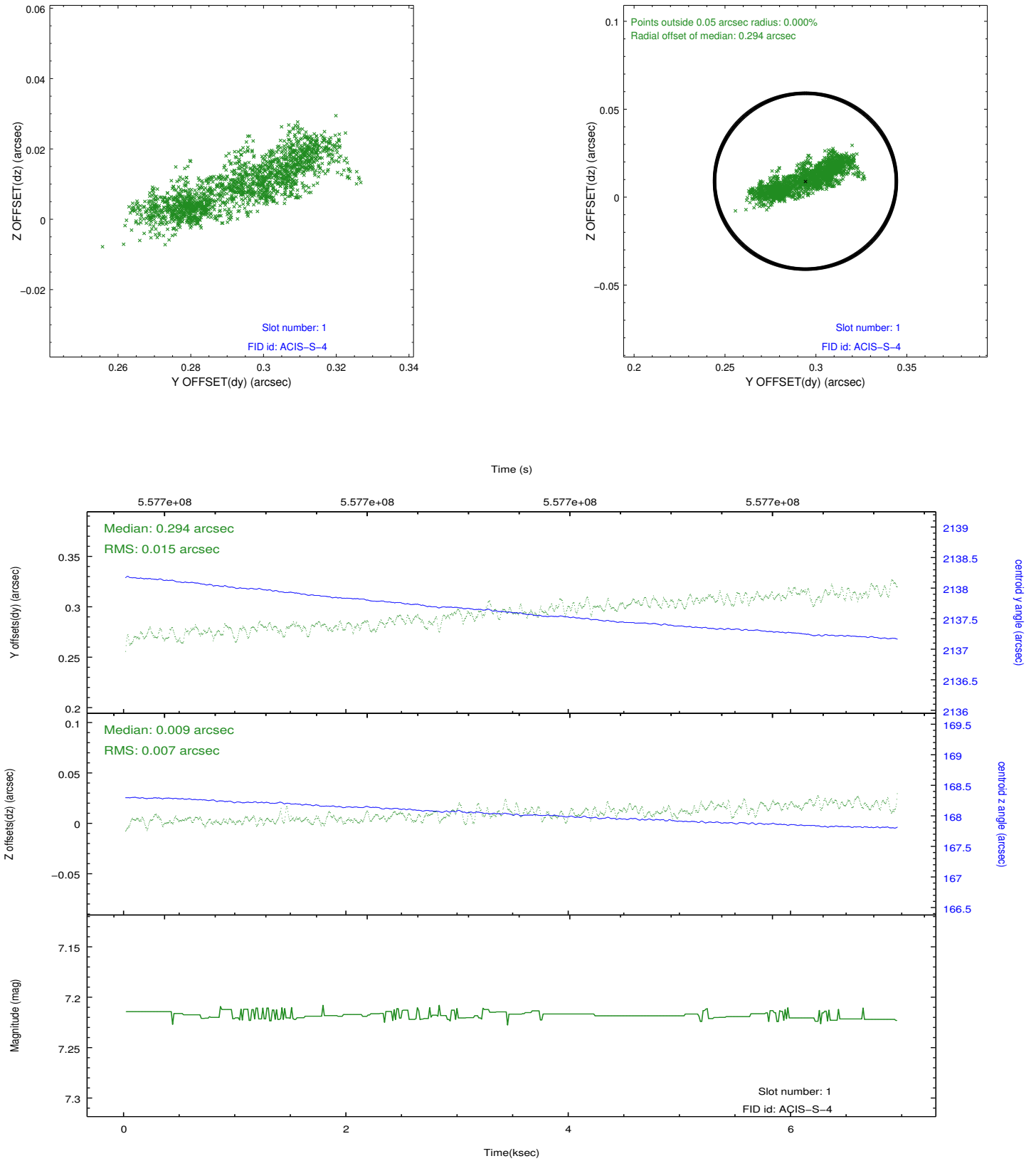


2.5 FID Slots

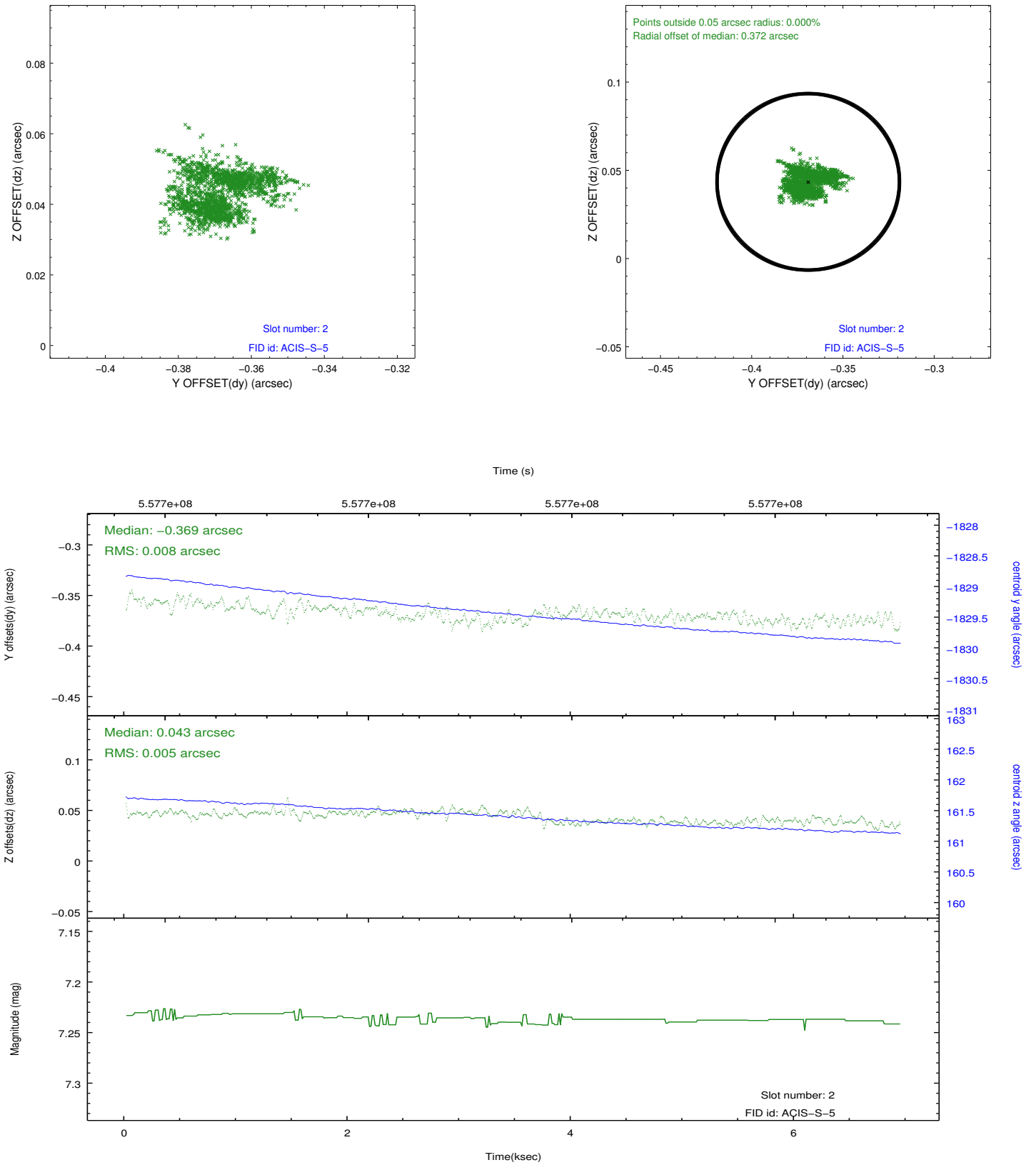
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2015.09.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.8818348433971

A.2 Comments