

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 19559 - L2 Version 1
Chandra X-Ray Center

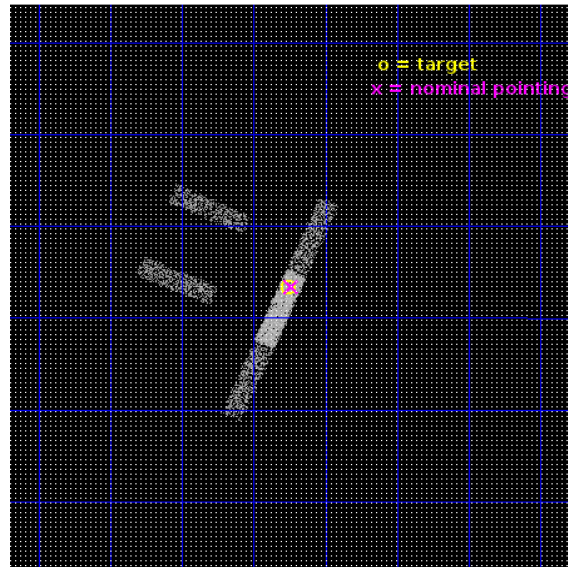
L2 Processing Date : Jun 22 2017

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1 Front

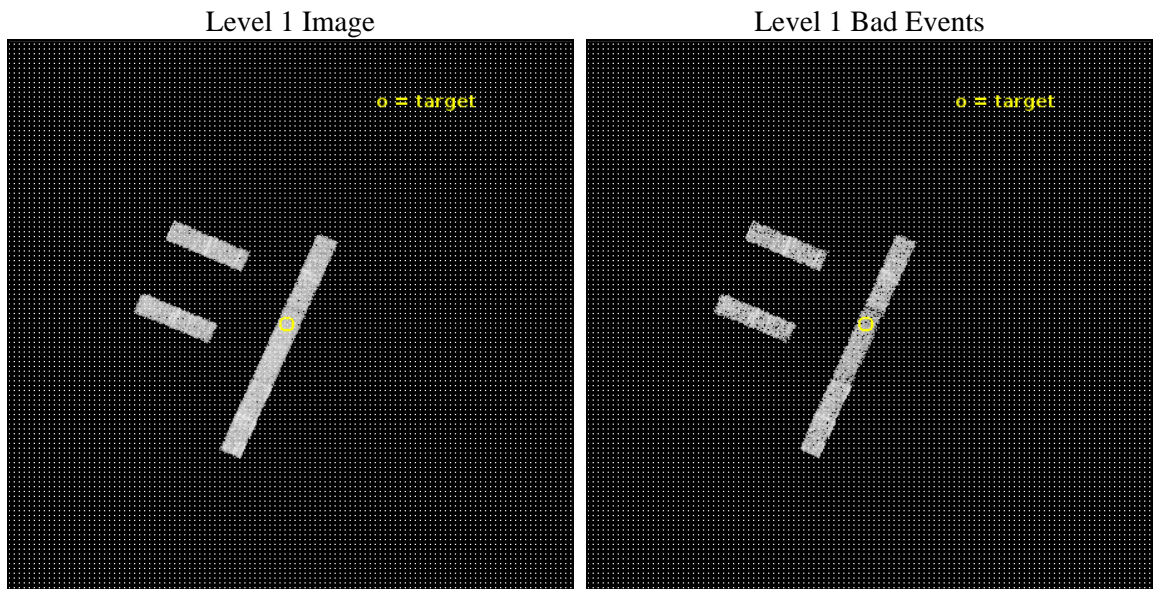
seq_num	703407	Sequence number
obs_id	19559	Observation id
title	Investigating X-ray Bias in Low-L, Low-z Quasars	Proposal title
observer	Gordon Richards	Principal investigator
object	SDSSJ234145.51-004640.5	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	355.439583	Observer's specified target RA [deg]
dec_targ	-0.777944	Observer's specified target Dec [deg]
ra_nom	355.43434870947	Nominal RA [deg]
dec_nom	-0.77650748810985	Nominal Dec [deg]
roll_nom	113.56970931115	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3571.0	Sum of GTIs [s]
livetime	3430.2236225313	Livetime [s]
ontime2	3570.8876452446	Sum of GTIs [s]
ontime3	3570.9697252512	Sum of GTIs [s]
ontime6	3571.0	Sum of GTIs [s]
ontime7	3571.0	Sum of GTIs [s]
ontime8	3570.9286853075	Sum of GTIs [s]
l2events	6857	Number of level 2 events



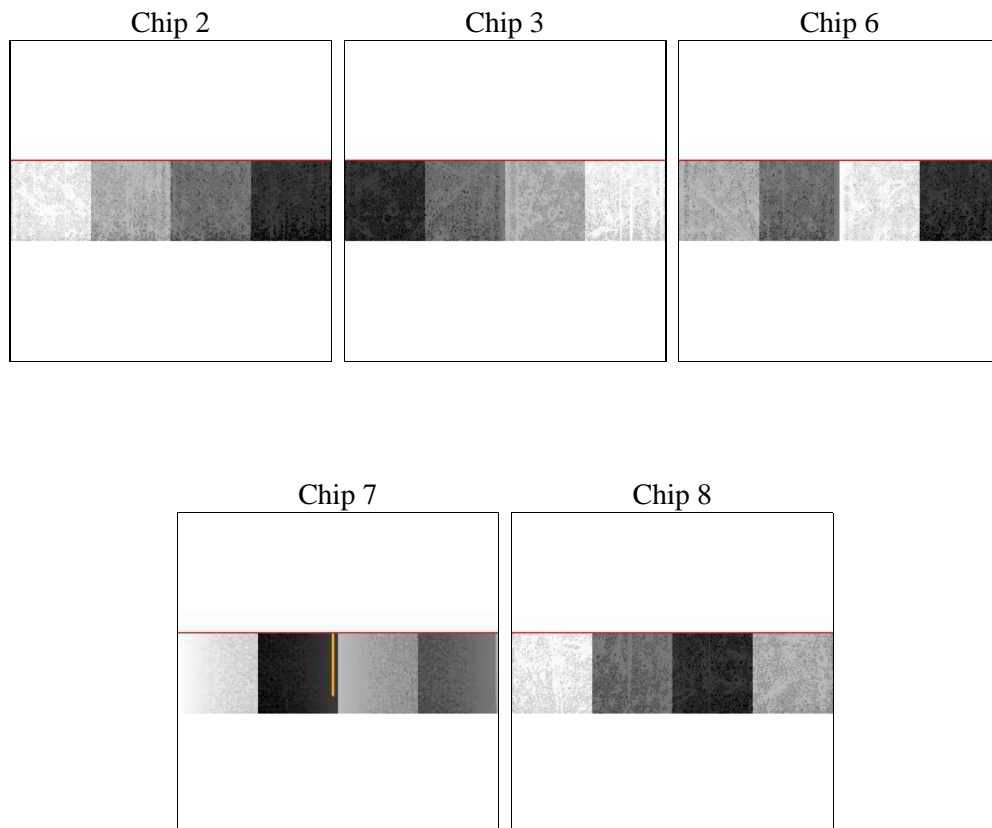
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3500.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	3571.0	Sum of GTIs [s]
caldsver	4.7.5	 	ontime2	3570.8876452446	Sum of GTIs [s]
date	2017-06-22T12:53:47	Date and time of file creation	ontime3	3570.9697252512	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	3571.0	Sum of GTIs [s]
			ontime7	3571.0	Sum of GTIs [s]
			ontime8	3570.9286853075	Sum of GTIs [s]
			l1events	44921	Number of level 1 events

2.1.4 Events

	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	8101	7990	8151	9378	11301
rejected events	7318	7190	7226	5205	8529
rejected %	90%	89%	88%	55%	75%

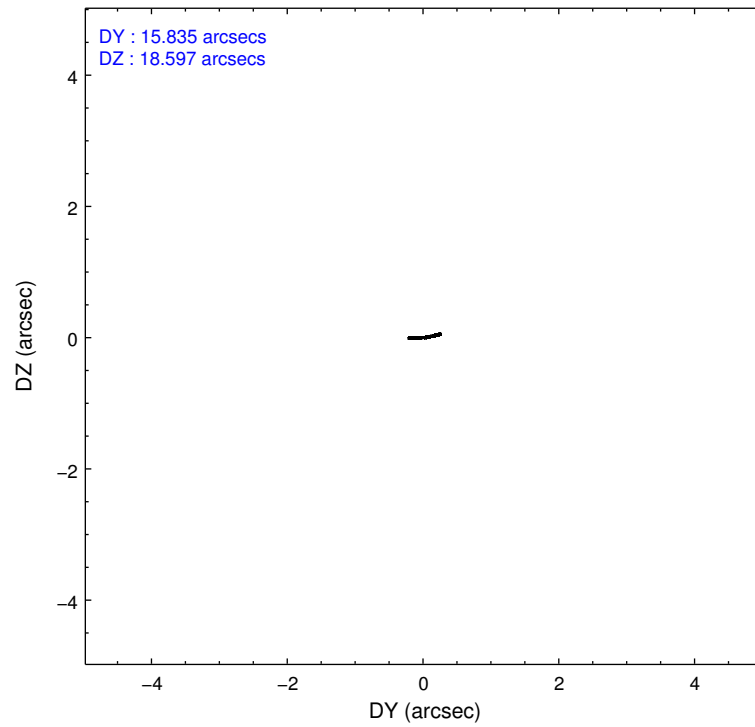
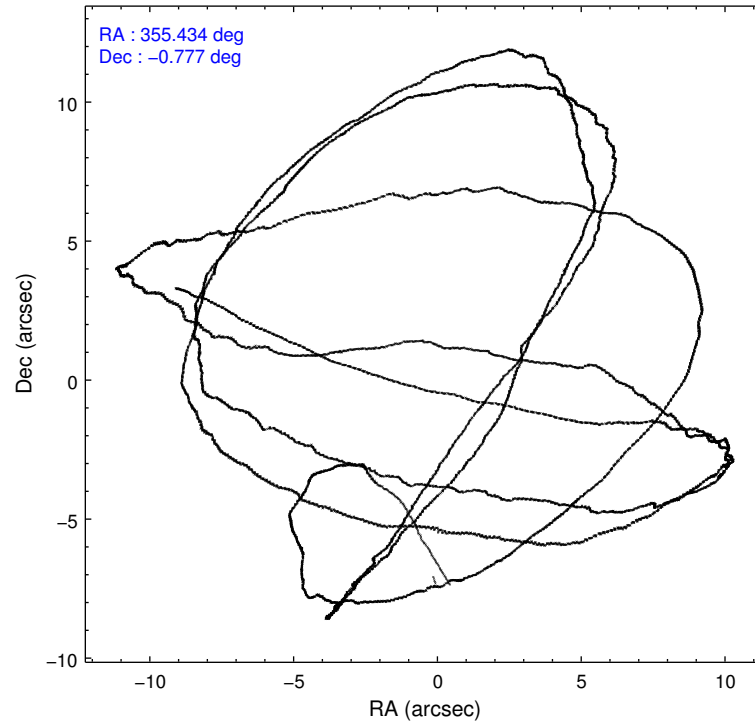
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	244	251	263	431	633
	3%	3%	3%	4%	5%
grade 1 events	2	1	2	7	4
	0%	0%	0%	0%	0%
grade 2 events	142	154	178	832	740
	1%	1%	2%	8%	6%
grade 3 events	128	123	136	409	258
	1%	1%	1%	4%	2%
grade 4 events	134	123	129	433	259
	1%	1%	1%	4%	2%
grade 5 events	260	327	315	941	466
	3%	4%	3%	10%	4%
grade 6 events	135	149	221	2070	906
	1%	1%	2%	22%	8%
grade 7 events	7056	6862	6907	4255	8035
	87%	85%	84%	45%	71%

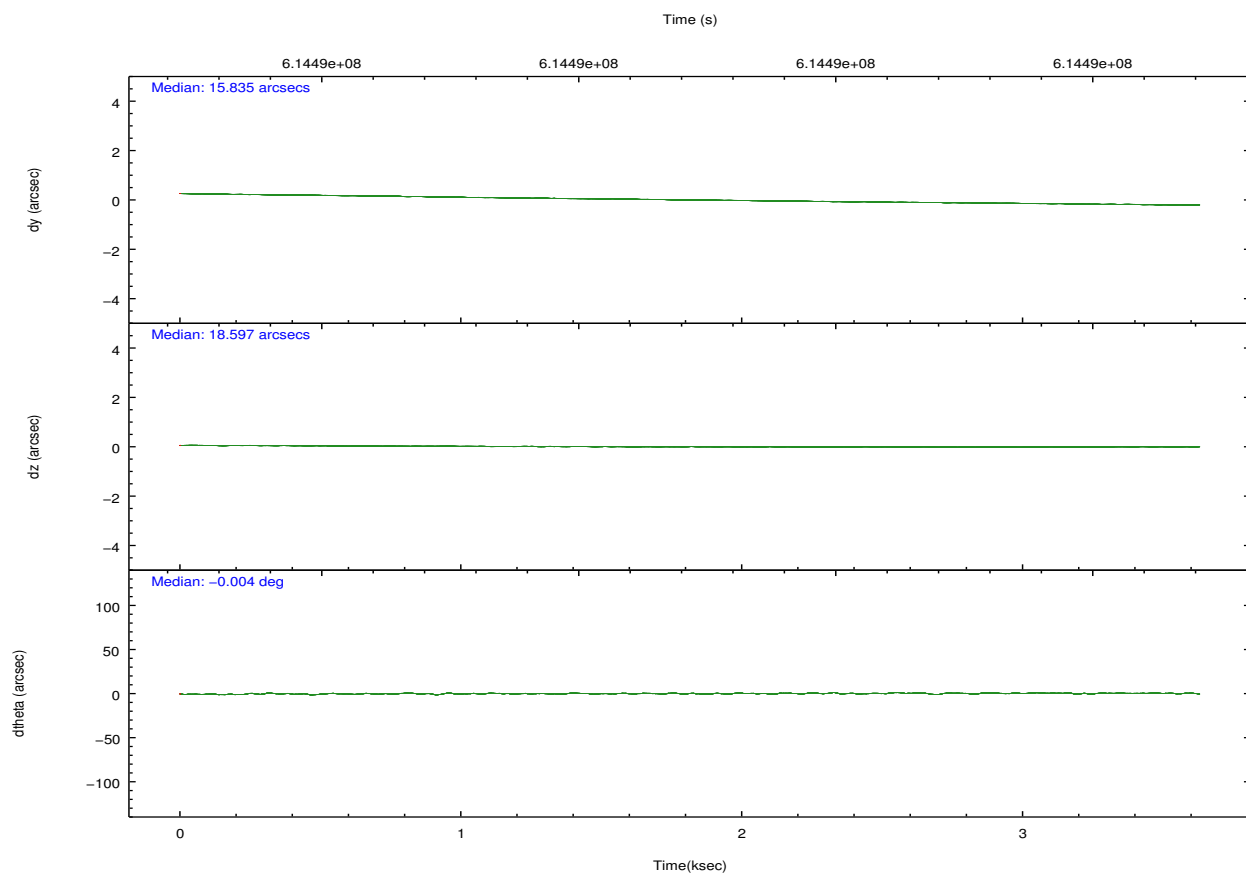
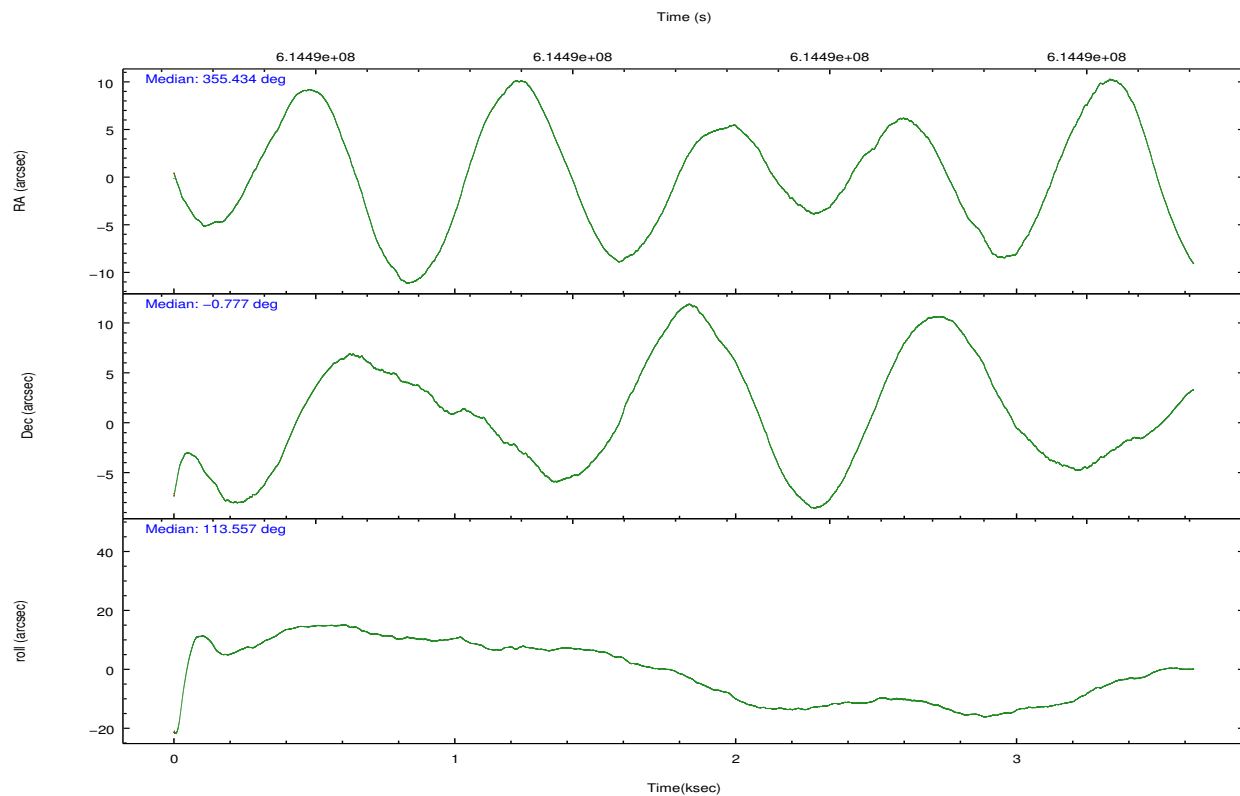
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-23678	ACIS-23678
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	355.456609	355.4343487094687
[deg] Pointing Dec	-0.792334	-0.7765074881098544
[deg] Pointing Roll	113.413593	113.5697093111501
[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)	614488750.184000	614487637.5140899
Observation start date	2017-06-22T03:18:01	2017-06-22T03:00:37
[s] Observation end time (MET)	614492250.184000	614493574.31444
Observation end date	2017-06-22T04:16:21	2017-06-22T04:39:34
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	N	N
CCD I1 on	N	N
CCD I2 on	O1	Y
CCD I3 on	Y	Y
CCD S0 on	N	N
CCD S1 on	N	N
CCD S2 on	Y	Y
CCD S3 on	Y	Y
CCD S4 on	Y	Y
CCD S5 on	N	N
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	CUSTOM	1/4
Subarray start row	385	385
Subarray row count	256	256
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	1

2.3 Aspect



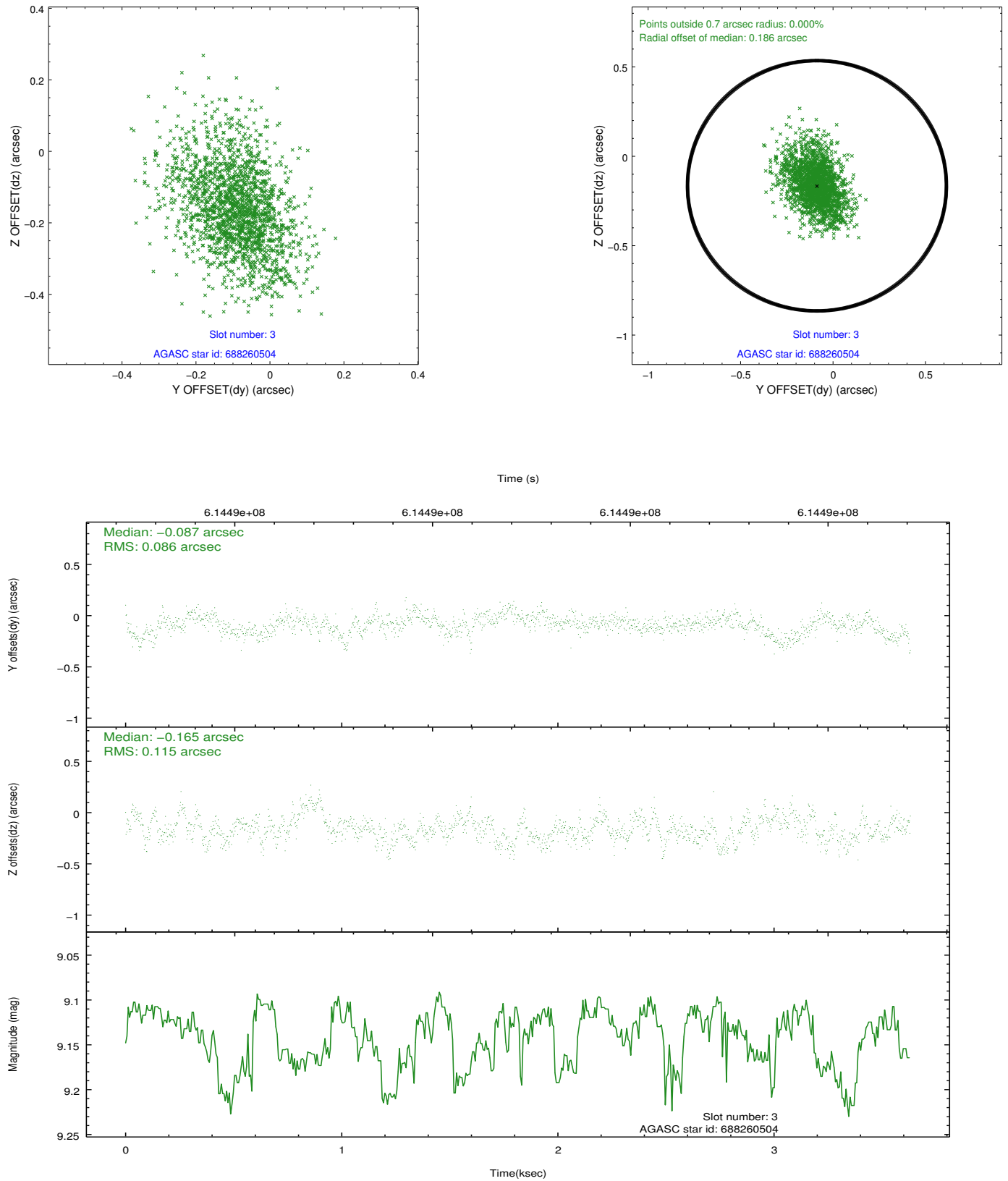


Slot Statistics

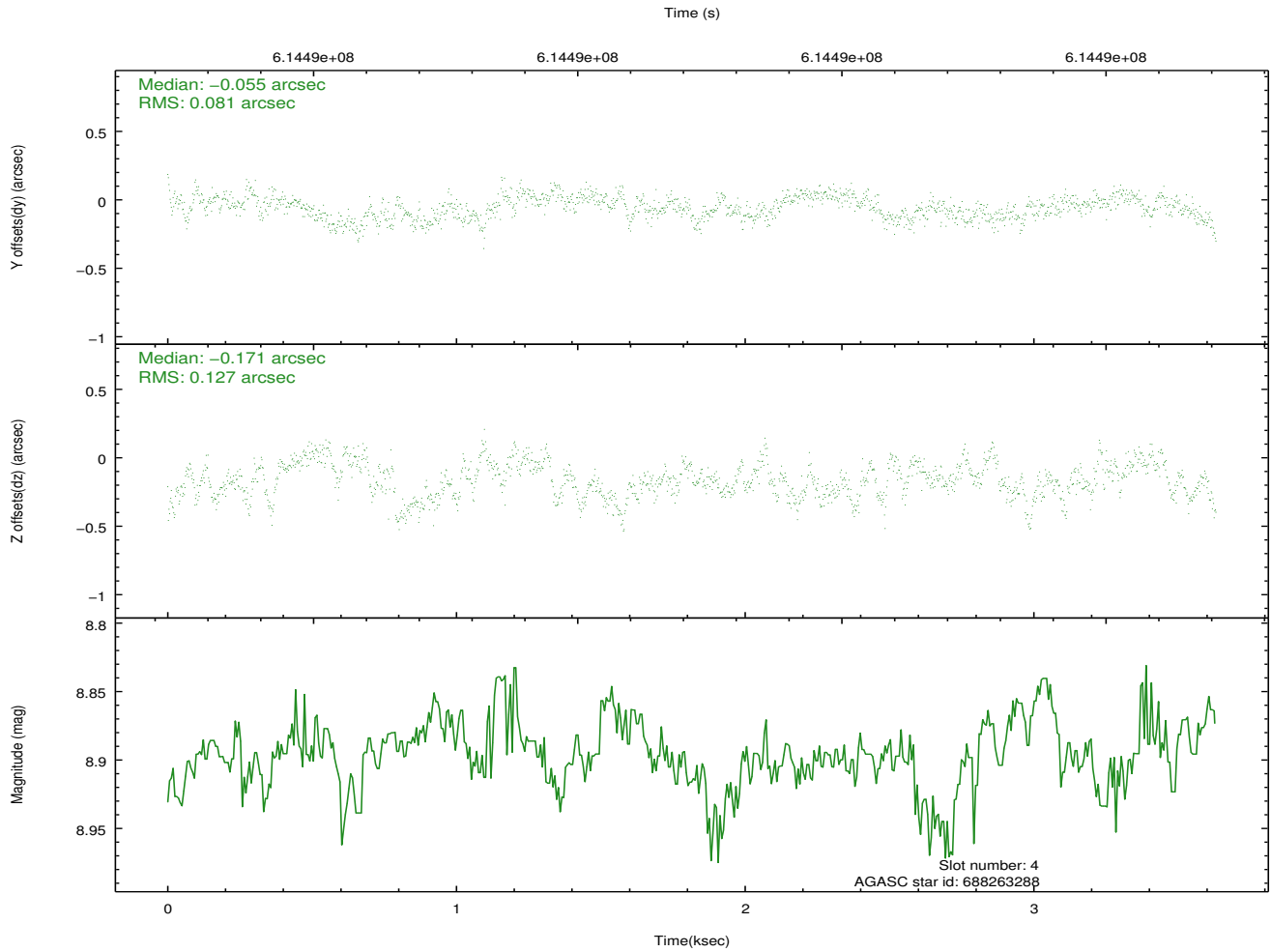
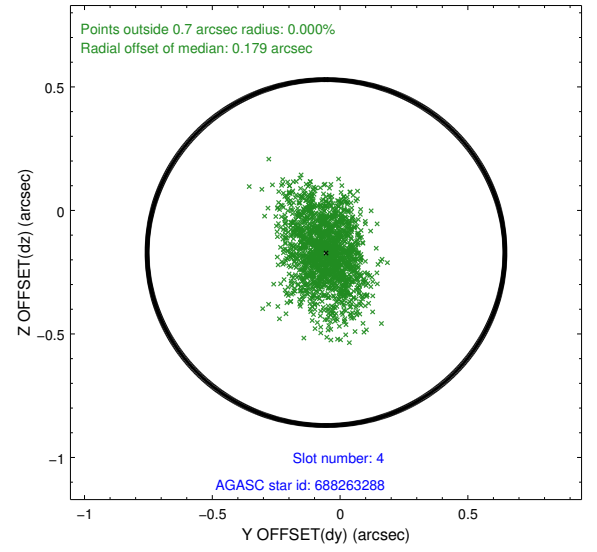
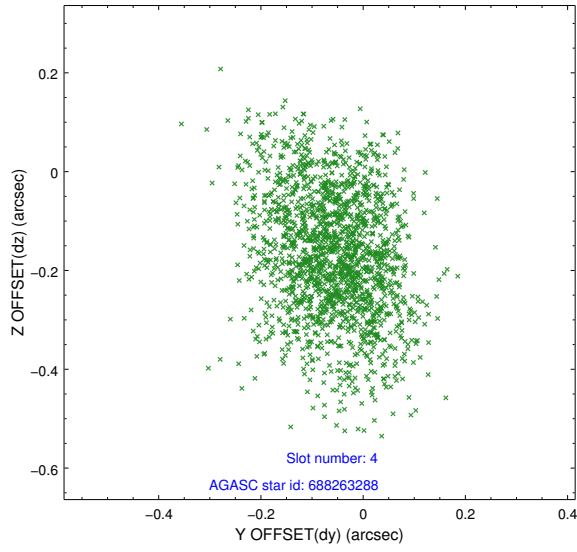
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.10	886	-0.217	-0.136	0.007	0.011	0.000000	0.000000	-769.04	-1740.17
1	FID		ACIS-S-4	7.22	886	0.518	0.141	0.006	0.011	0.000000	0.000000	2144.16	166.80
2	FID		ACIS-S-5	7.20	886	-0.333	0.004	0.007	0.012	0.000000	0.000000	-1819.79	162.29
3	GUIDE	used	688260504	9.14	1772	-0.087	-0.165	0.150	0.256	354.996097	-0.750962	795.88	1462.55
4	GUIDE	used	688263288	8.90	1771	-0.055	-0.171	0.157	0.265	354.936946	-0.740626	914.70	1642.98
5	GUIDE	used	688391136	9.05	1772	-0.012	0.001	0.132	0.243	355.227715	-0.740201	500.45	682.44
6	GUIDE	used	688393048	9.53	1770	0.257	-0.079	0.195	0.310	355.126001	-1.363634	-1414.34	1910.06
7	GUIDE	used	688397848	8.59	1771	-0.099	0.412	0.163	0.263	355.824310	-0.155582	1578.19	-2123.95

2.4 Star Slots

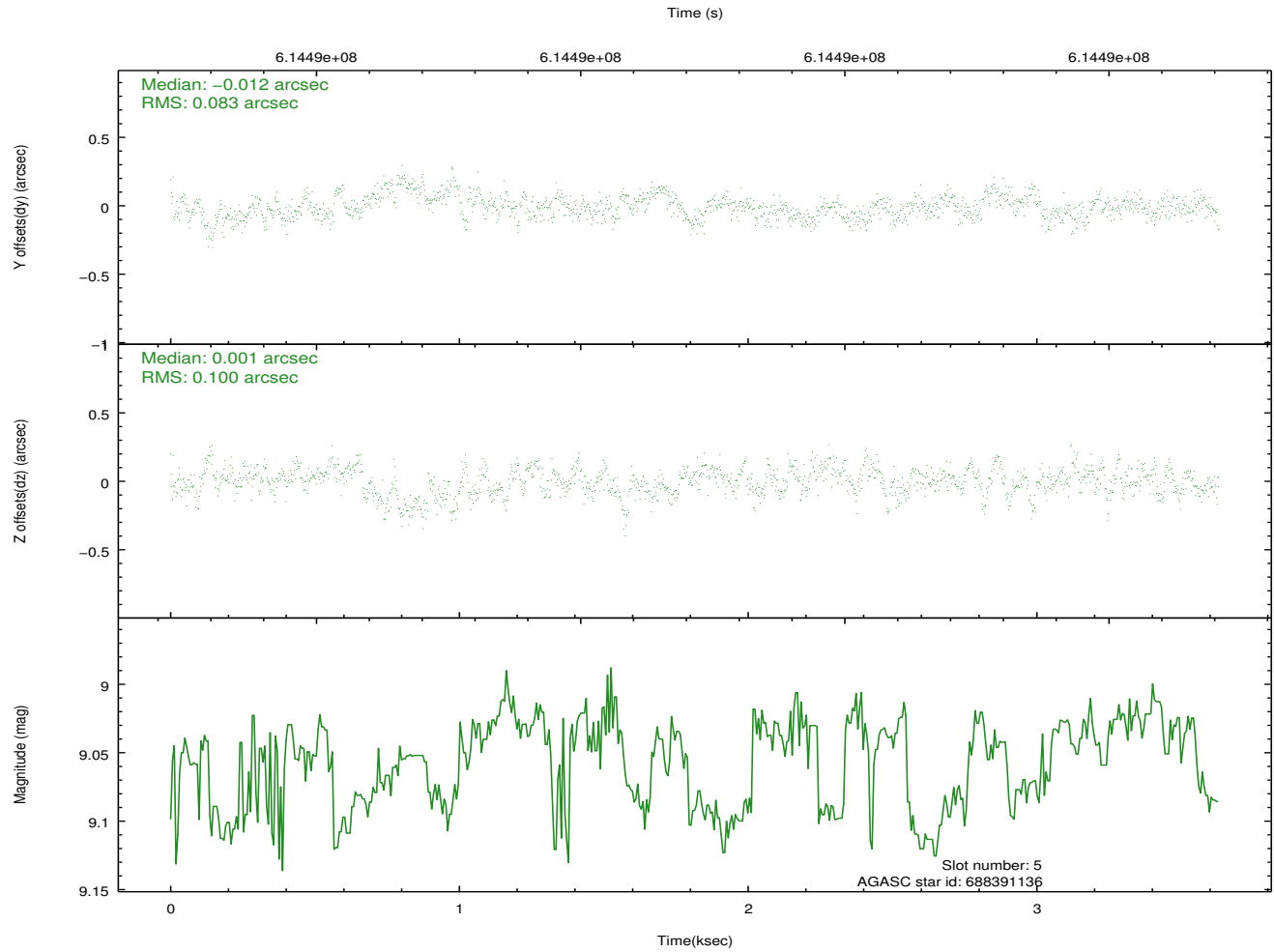
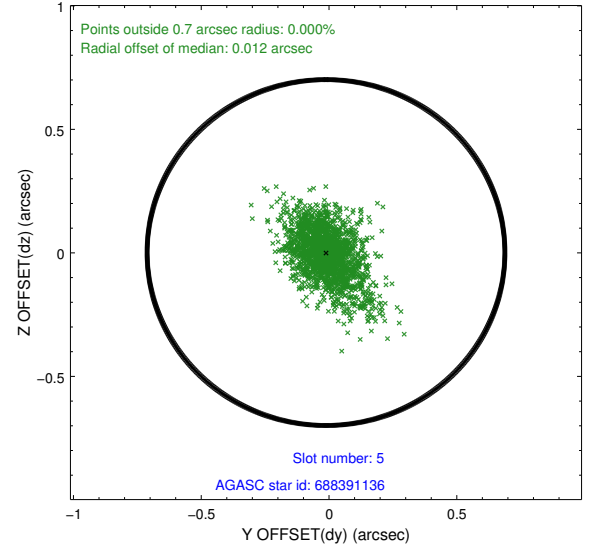
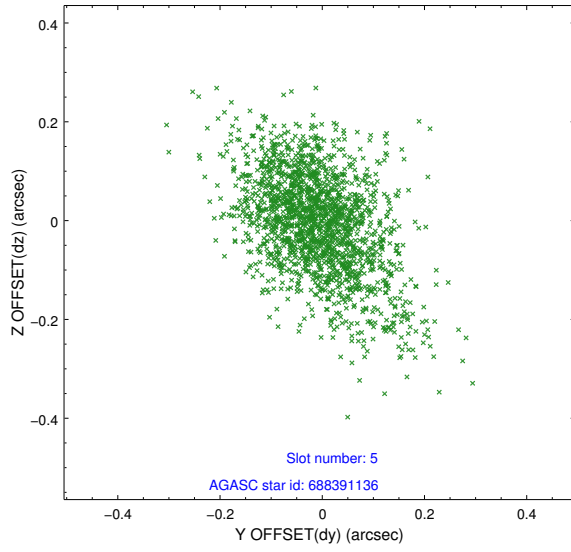
2.4.1 Slot 3



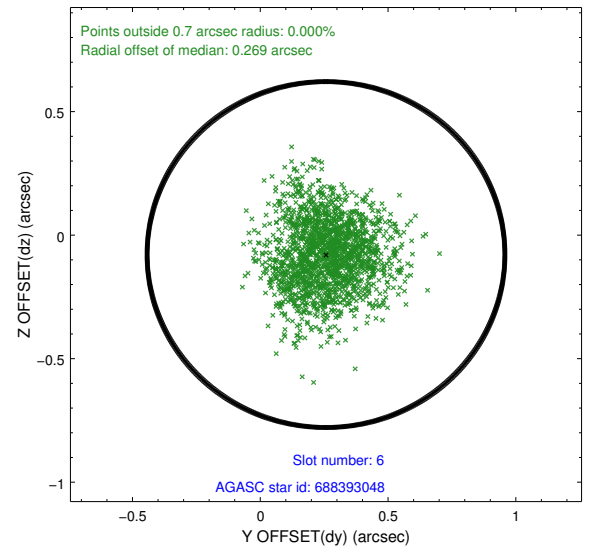
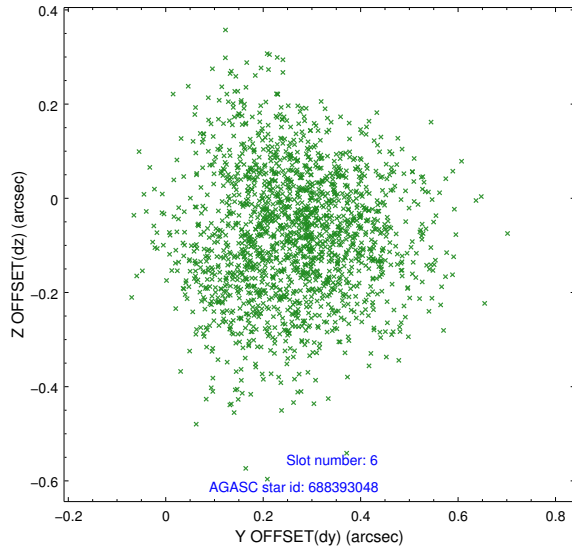
2.4.2 Slot 4



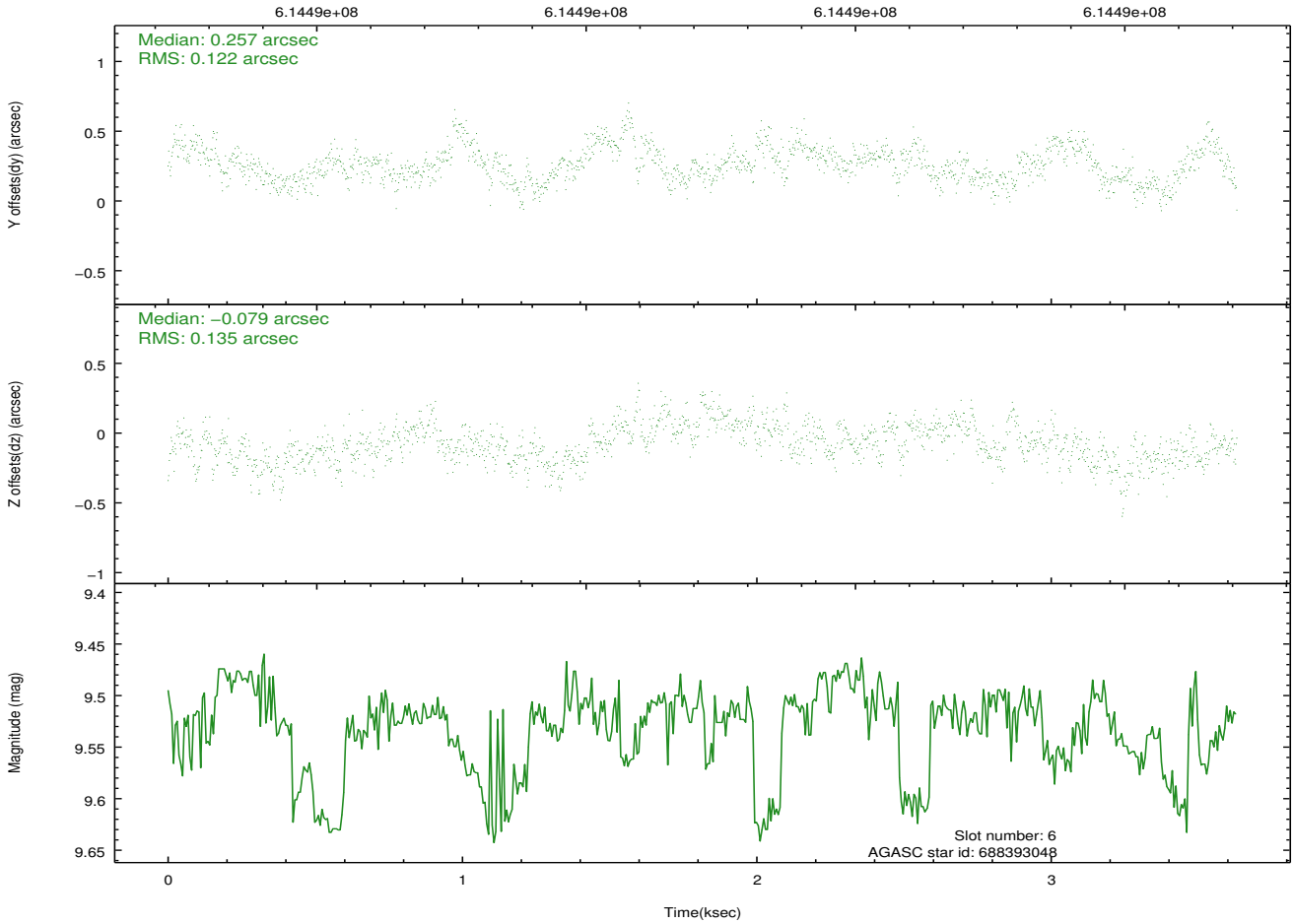
2.4.3 Slot 5



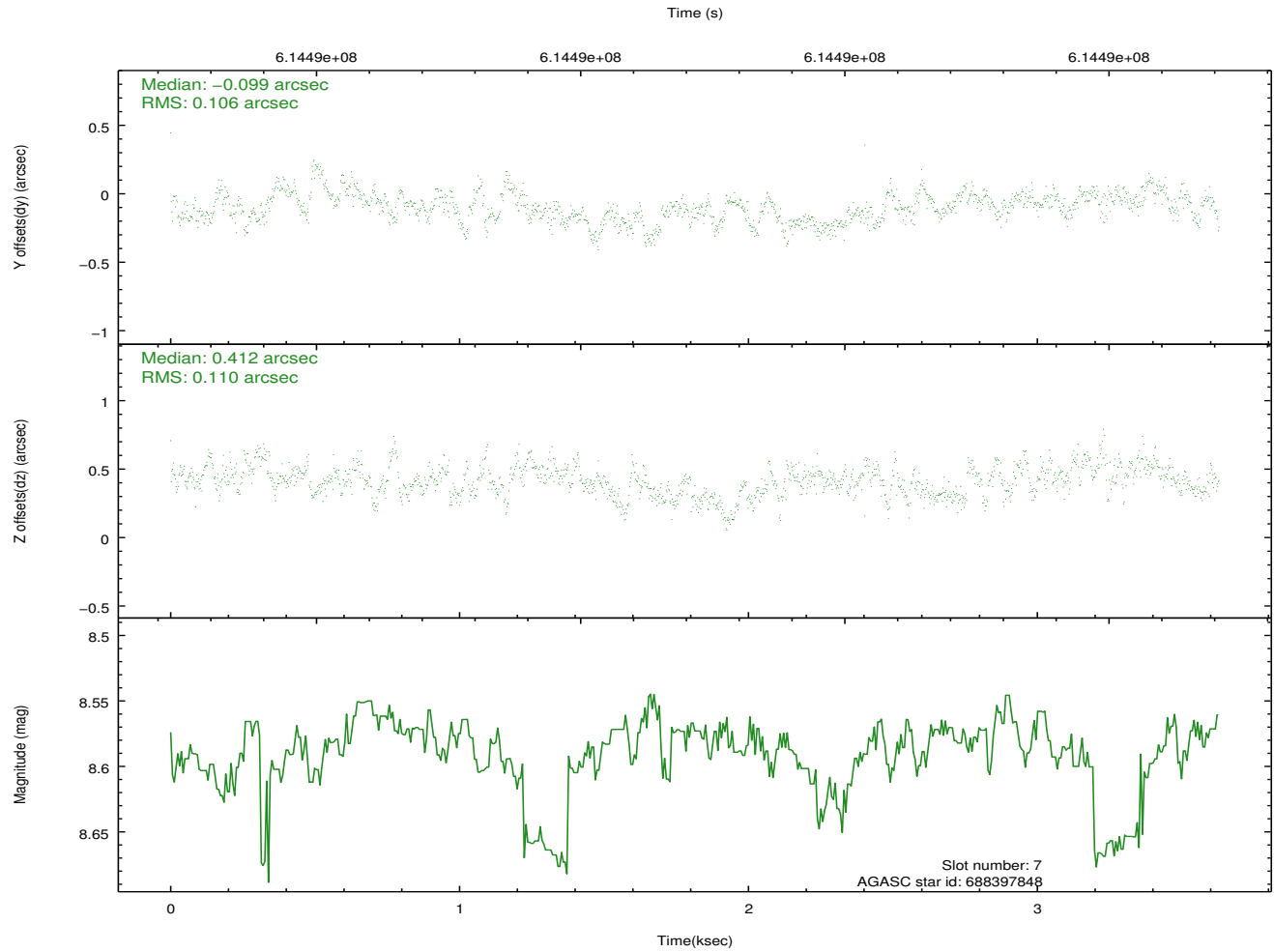
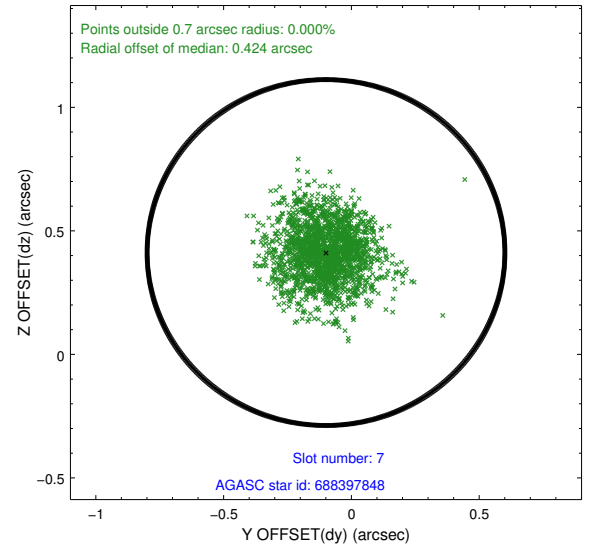
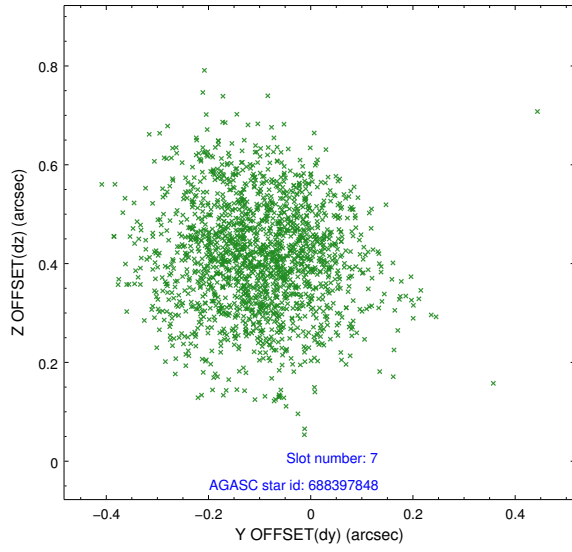
2.4.4 Slot 6



Time (s)

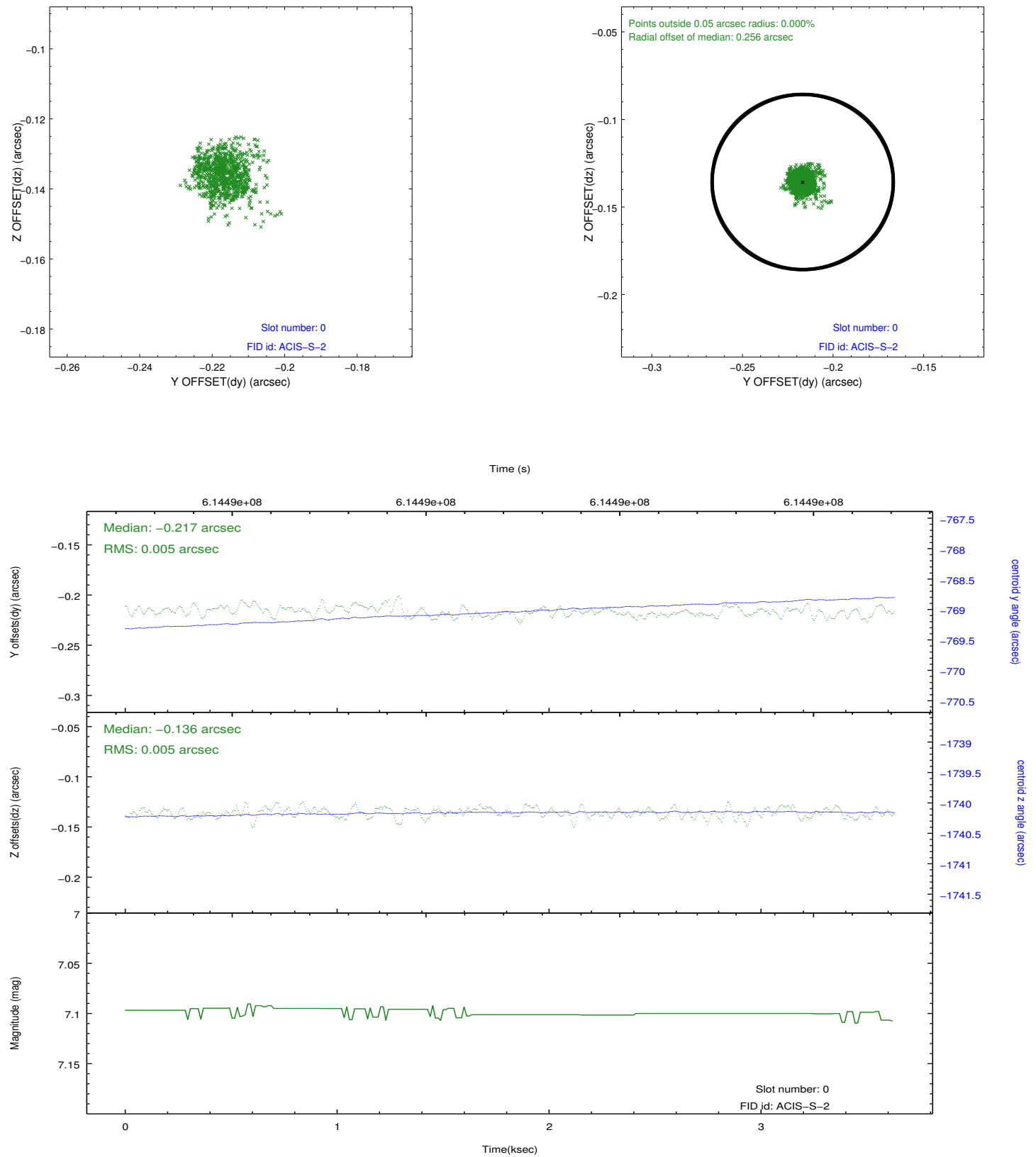


2.4.5 Slot 7

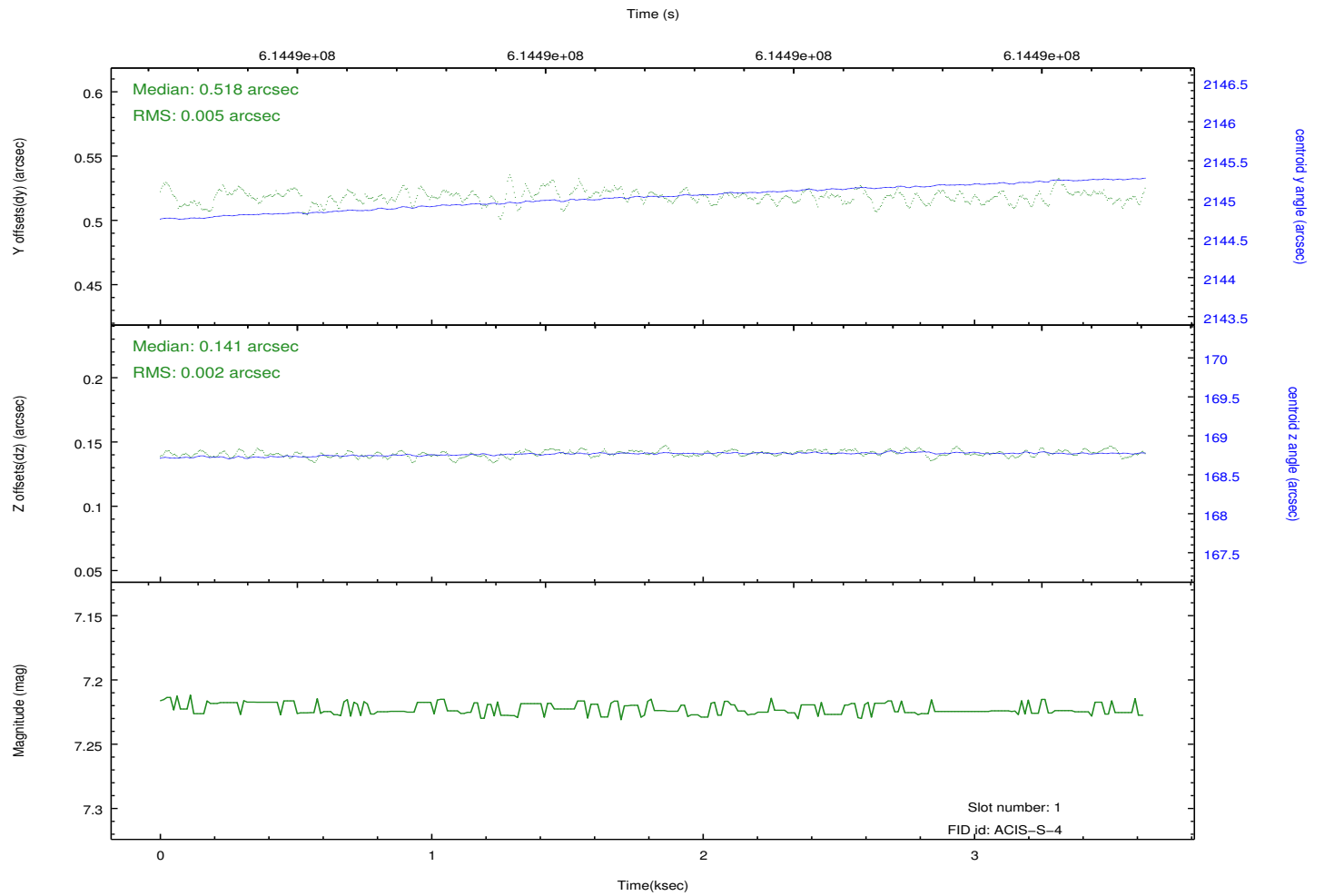
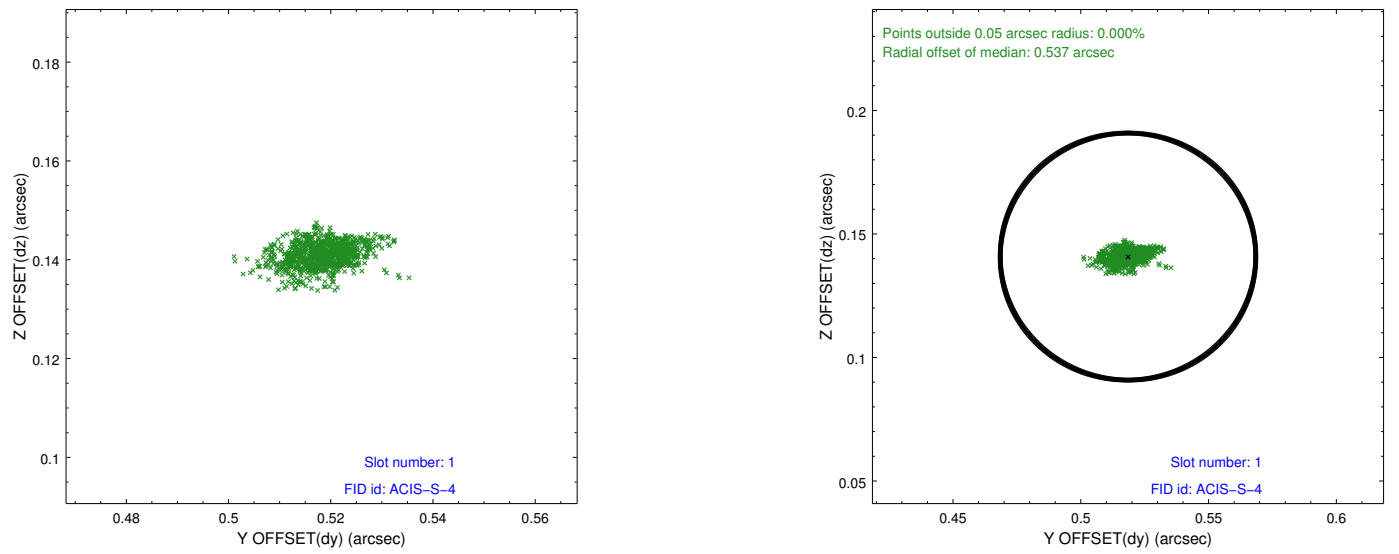


2.5 FID Slots

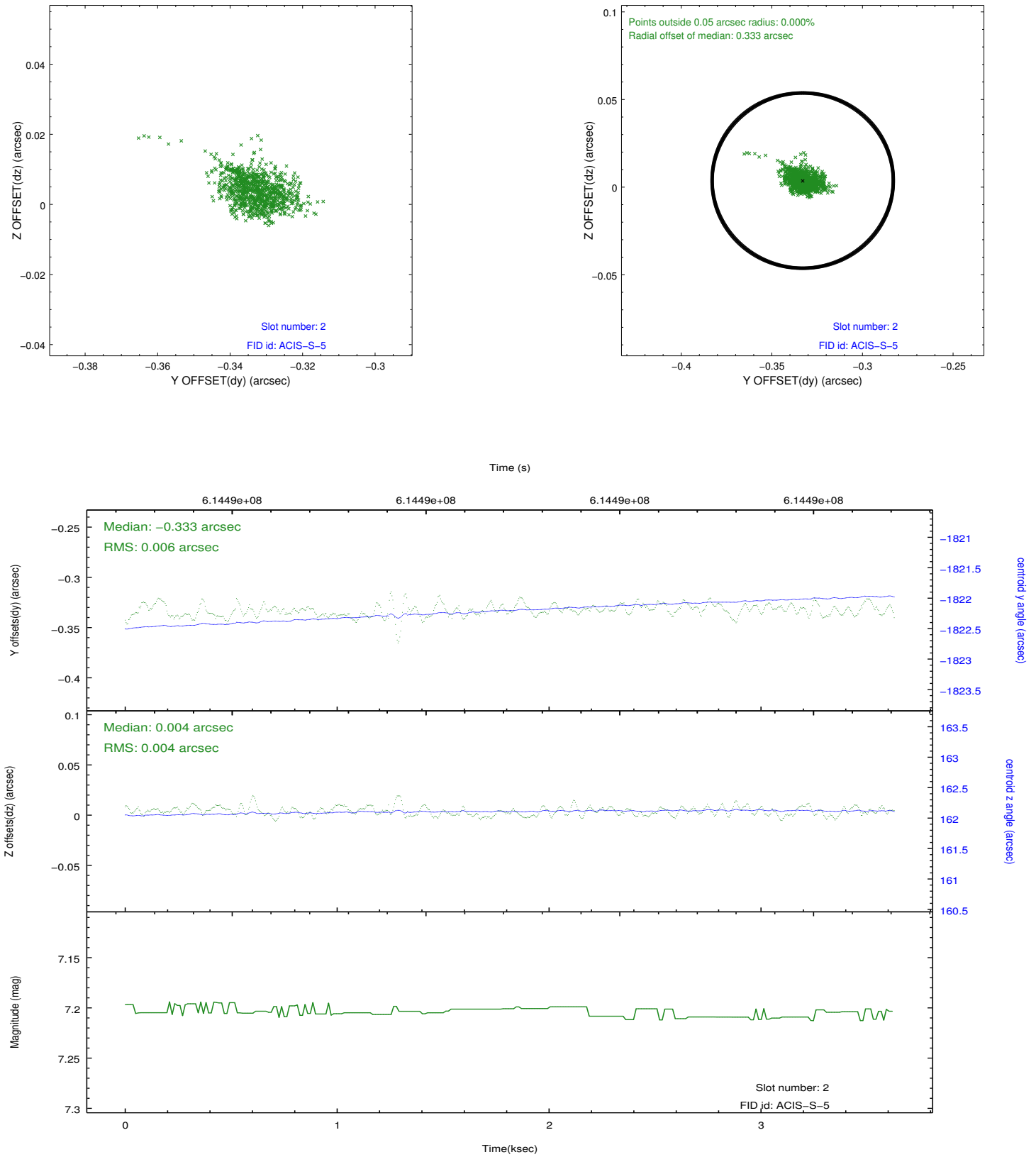
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2017.06.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.571

A.2 Comments