

V&V Reference Report

L2 ASCDS Version : 10.4.3

Observation 18444 - L2 Version 1
Chandra X-Ray Center

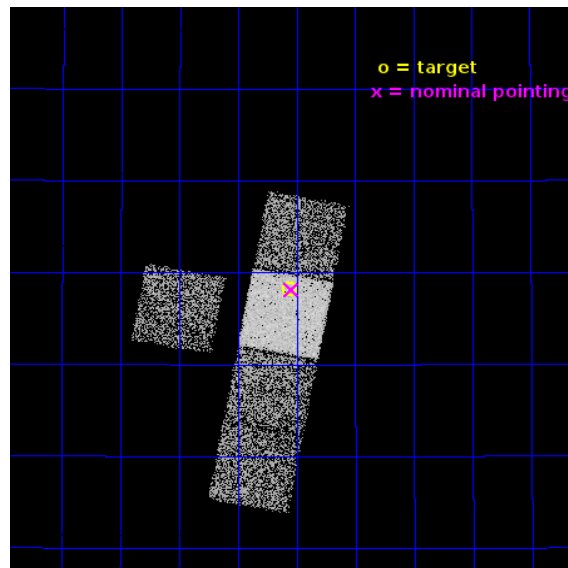
L2 Processing Date : Dec 20 2015

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1 Front

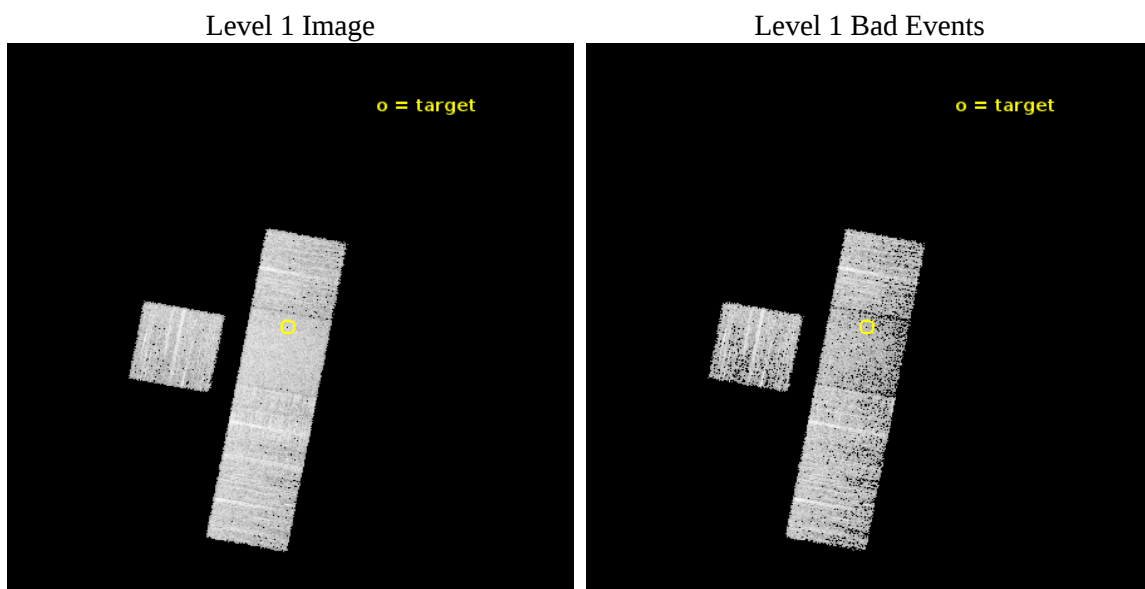
seq_num	703283	Sequence number
obs_id	18444	Observation id
title	Deciphering the X-ray Enhancement of Highly Radio-Loud Quasars in the Early Universe	Proposal title
observer	Dr. Gordon Garmire	Principal investigator
object	SDSS J081333.32+350810.8	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	123.38875	Observer's specified target RA [deg]
dec_targ	35.136333	Observer's specified target Dec [deg]
ra_nom	123.38594593072	Nominal RA [deg]
dec_nom	35.135791899423	Nominal Dec [deg]
roll_nom	100.63727282208	Nominal Roll [deg]
revision	1	Processing version of data
ontime	6072.464712739	Sum of GTIs [s]
livetime	5993.1234907836	Livetime [s]
ontime3	6072.3826327324	Sum of GTIs [s]
ontime6	6072.4236727953	Sum of GTIs [s]
ontime7	6072.464712739	Sum of GTIs [s]
ontime8	6069.2005624771	Sum of GTIs [s]
ontime9	6072.3005527258	Sum of GTIs [s]
l2events	30089	Number of level 2 events



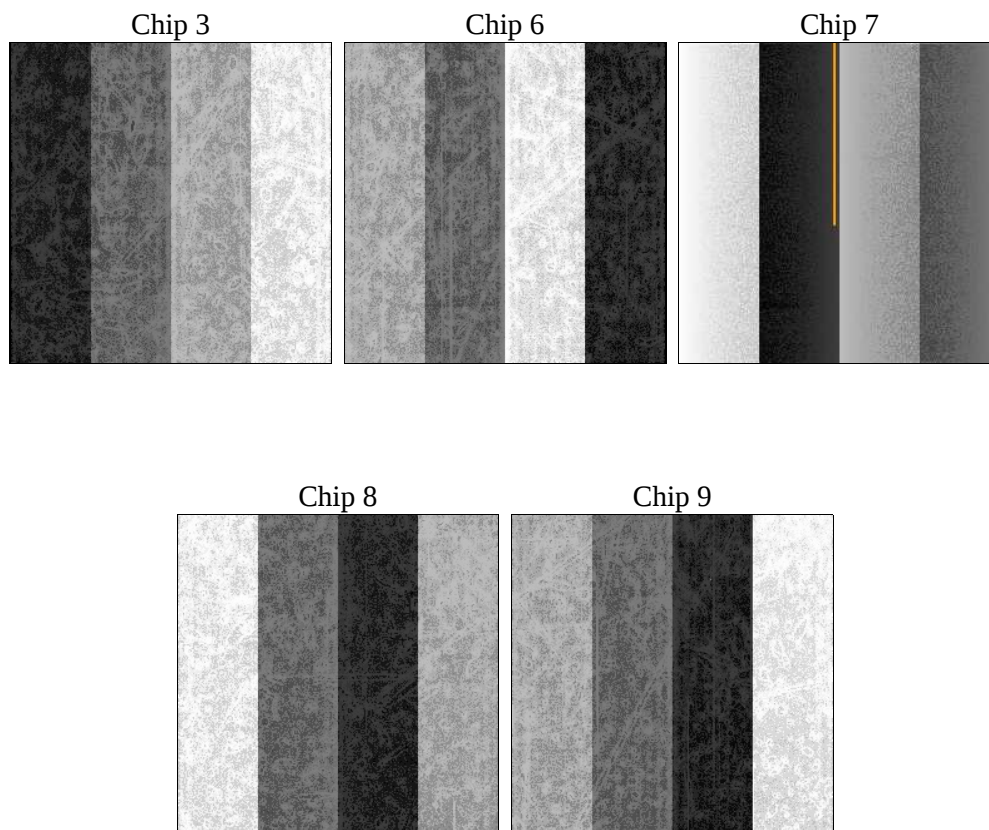
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	6000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3	Processing system revision	ontime	6072.464712739	Sum of GTIs [s]
caldsver	4.7.0	 	ontime3	6072.3826327324	Sum of GTIs [s]
date	2015-12-20T19:18:34	Date and time of file creation	ontime6	6072.4236727953	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	6072.464712739	Sum of GTIs [s]
			ontime8	6069.2005624771	Sum of GTIs [s]
			ontime9	6072.3005527258	Sum of GTIs [s]
			l1events	173931	Number of level 1 events

2.1.4 Events

	ccd 3	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	30990	31708	36749	42316	32168
rejected events	27632	27840	19553	30150	28452
rejected %	89%	87%	53%	71%	88%

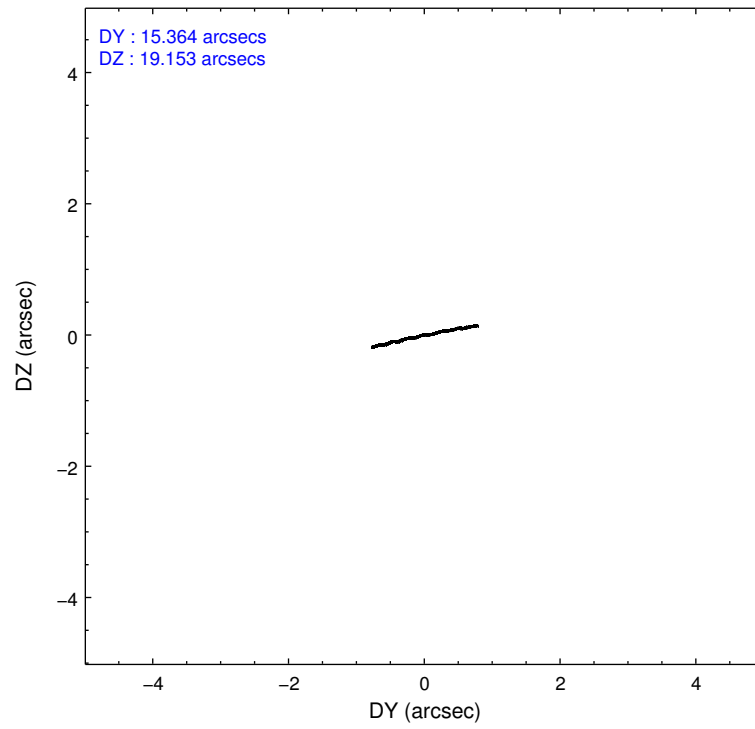
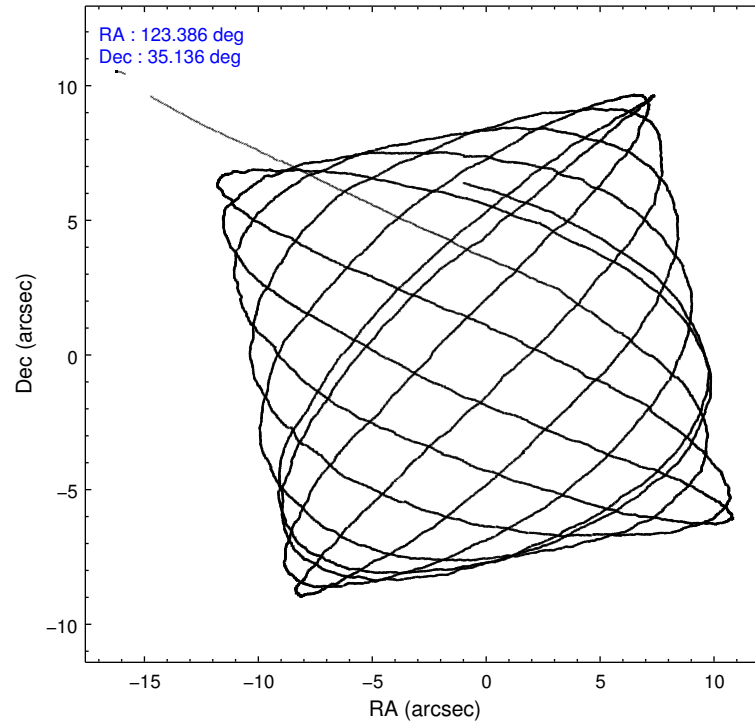
	ccd 3	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	1258	1457	1714	3616	1309
	4%	4%	4%	8%	4%
grade 1 events	20	26	45	25	15
	0%	0%	0%	0%	0%
grade 2 events	714	880	3707	2813	829
	2%	2%	10%	6%	2%
grade 3 events	363	345	1435	1301	413
	1%	1%	3%	3%	1%
grade 4 events	349	371	1362	1226	393
	1%	1%	3%	2%	1%
grade 5 events	1355	1378	3877	2123	1580
	4%	4%	10%	5%	4%
grade 6 events	681	819	8993	3213	776
	2%	2%	24%	7%	2%
grade 7 events	26250	26432	15616	27999	26853
	84%	83%	42%	66%	83%

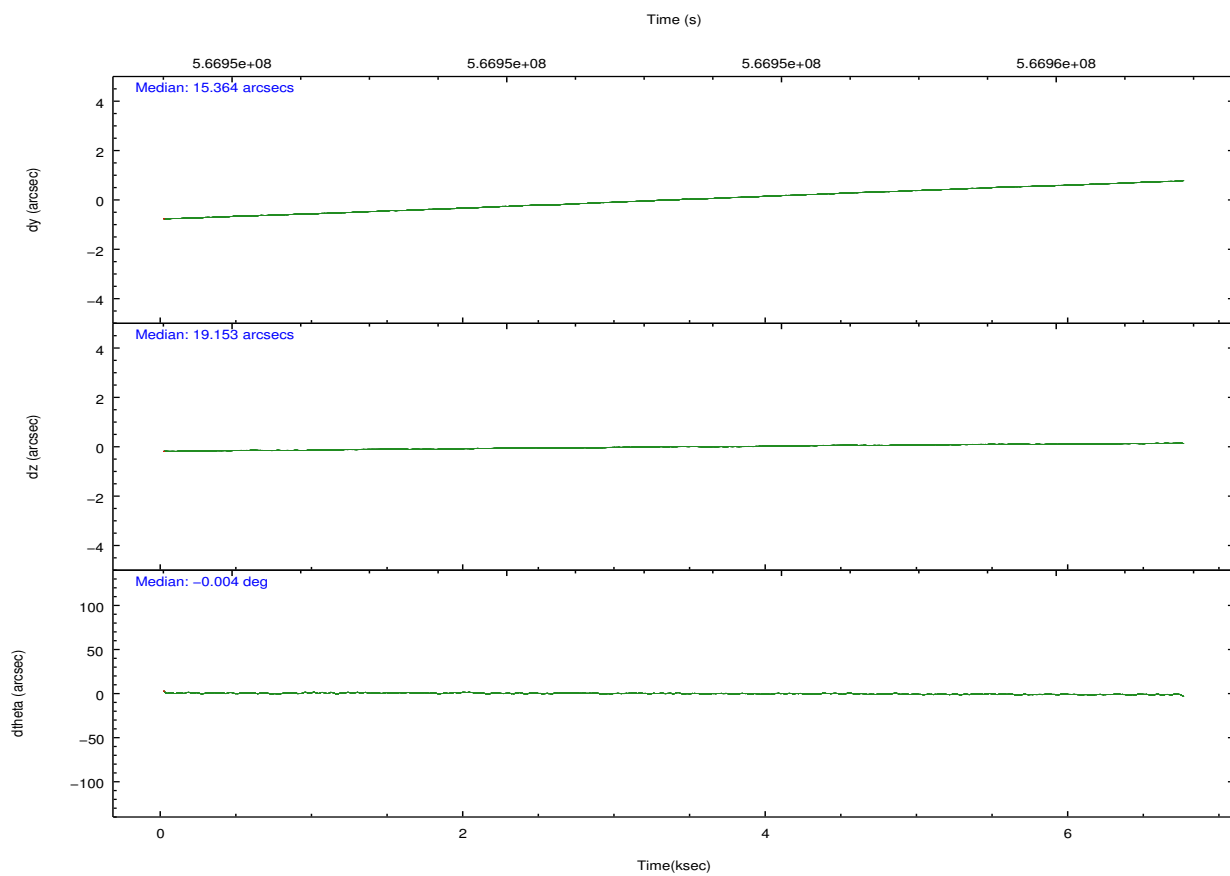
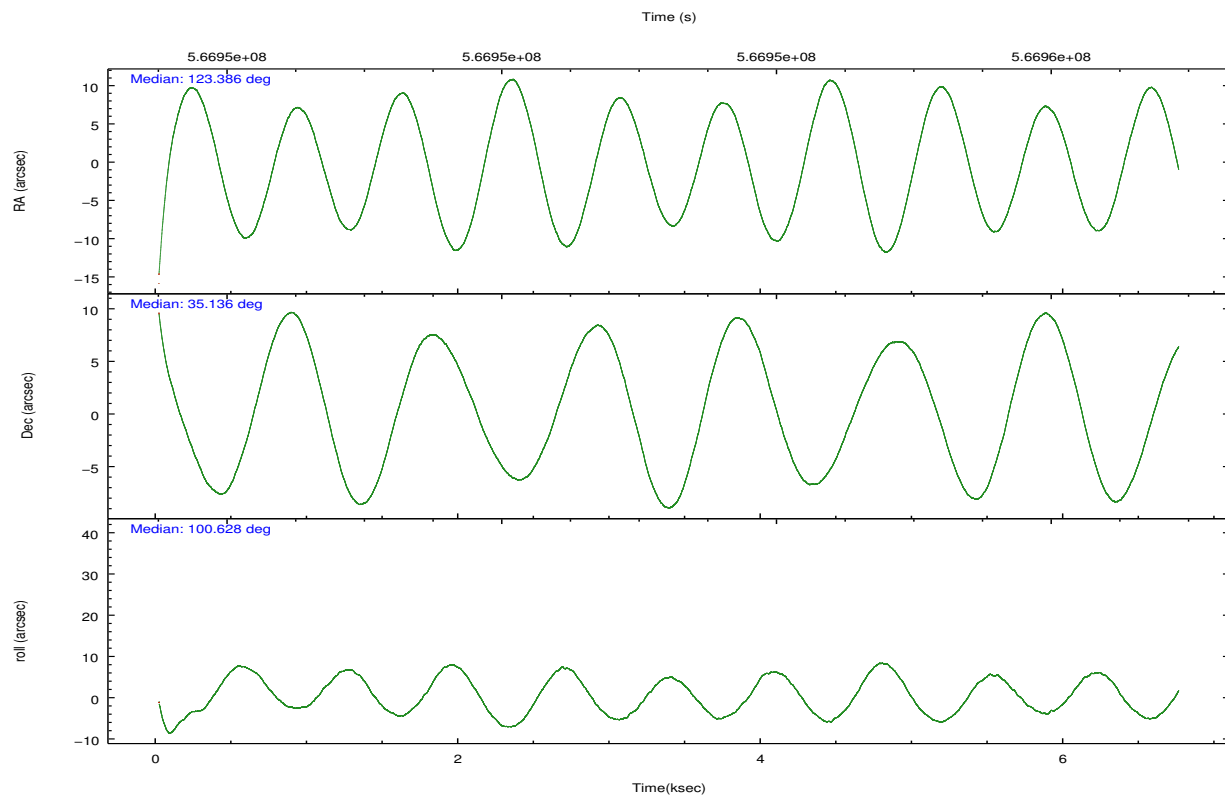
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-36789	ACIS-36789
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	123.408069	123.3859459307182
[deg] Pointing Dec	35.115263	35.13579189942275
[deg] Pointing Roll	100.467916	100.6372728220755
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1400660498719
[mm] SIM translation stage offset	0	0.00754346686406393
[s] Observation start time (MET)	566950592.184000	566949206.9931099
Observation start date	2015-12-19T22:15:24	2015-12-19T21:53:26
[s] Observation end time (MET)	566956592.184000	566957591.49359
Observation end date	2015-12-19T23:55:24	2015-12-20T00:13:11
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	N
CCD I3 on	O2	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	Y	Y
Number of optional ACIS chips dropped	1	1
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

2.3 Aspect



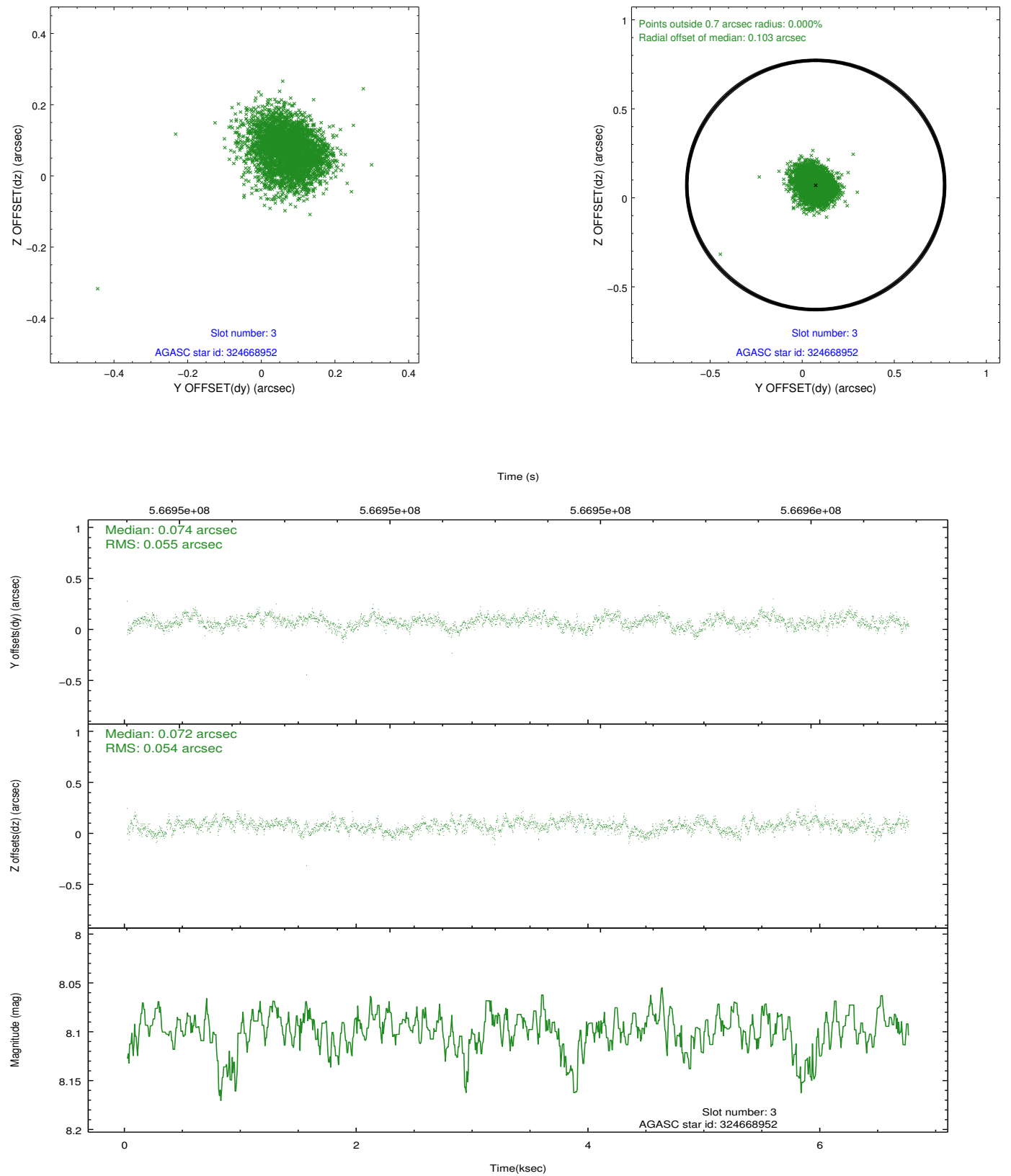


Slot Statistics

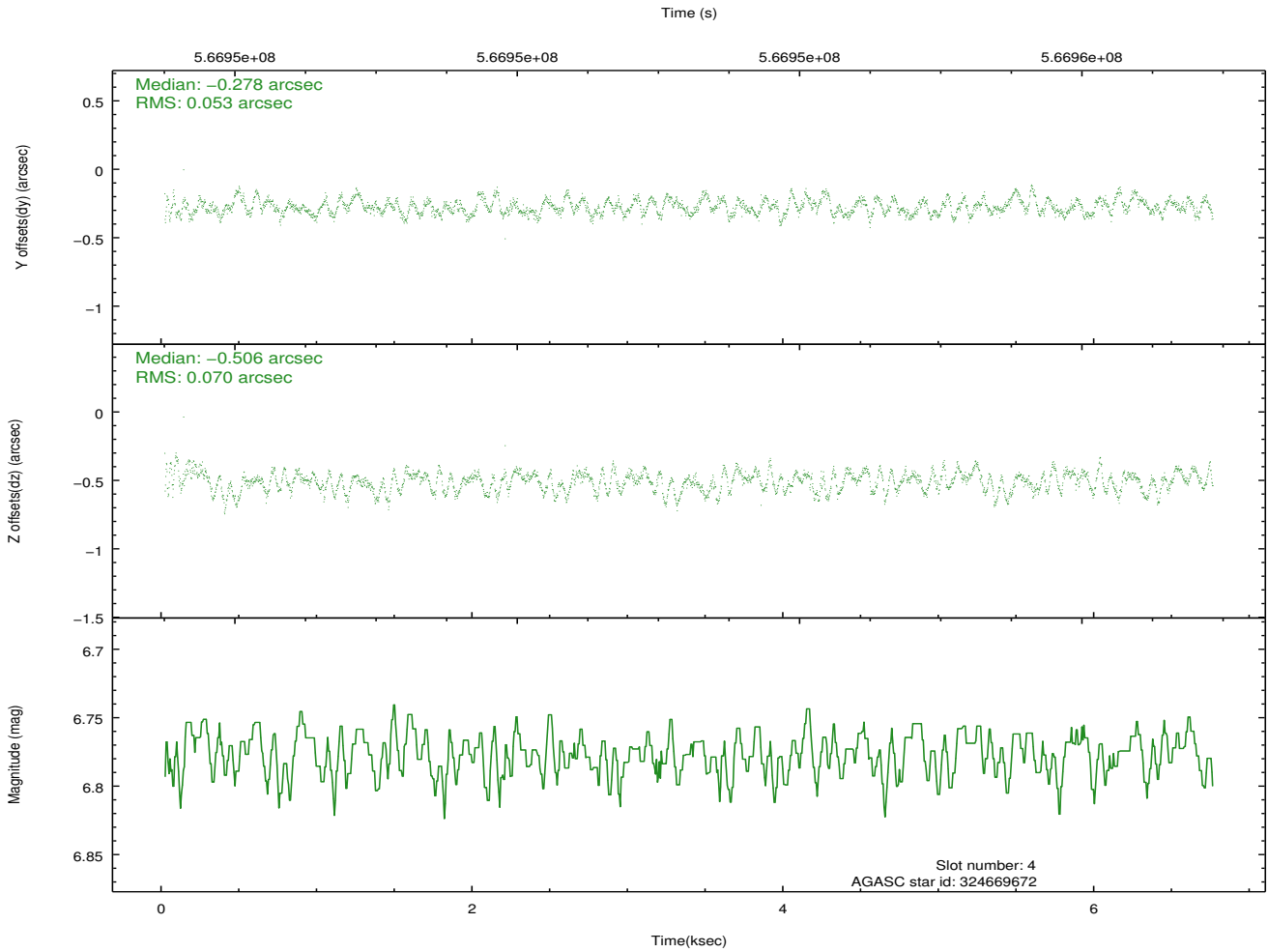
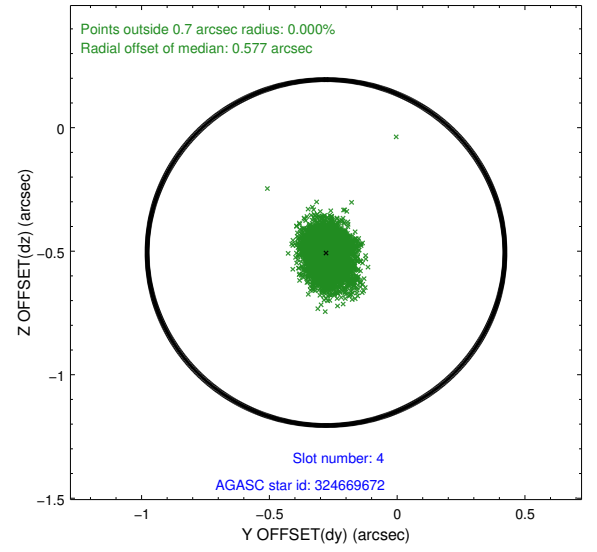
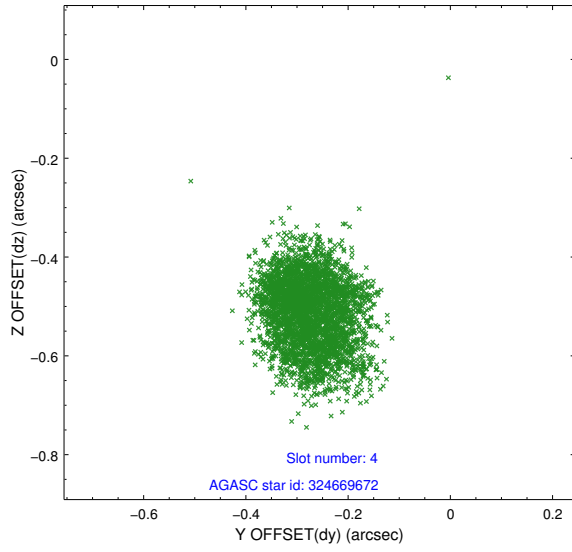
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.12	1645	-0.184	-0.107	0.008	0.013	0.000000	0.000000	-768.53	-1740.74
1	FID		ACIS-S-4	7.22	1645	0.423	0.117	0.009	0.016	0.000000	0.000000	2144.96	167.07
2	FID		ACIS-S-5	7.24	1645	-0.269	-0.002	0.010	0.017	0.000000	0.000000	-1820.35	161.61
3	GUIDE	used	324668952	8.10	3290	0.074	0.072	0.081	0.131	123.557526	35.241665	368.60	-514.38
4	GUIDE	used	324669672	6.78	3290	-0.278	-0.506	0.093	0.149	122.547825	35.454982	1667.33	2253.78
5	GUIDE	used	324675744	8.26	3286	0.146	0.082	0.088	0.145	123.153334	34.445730	-2230.92	1182.24
6	GUIDE	used	324805496	8.70	3289	0.015	0.218	0.113	0.191	124.124840	35.499690	985.91	-2316.90
7	GUIDE	used	324807912	8.44	3287	0.042	0.156	0.117	0.186	124.107839	35.550699	1176.90	-2301.28

2.4 Star Slots

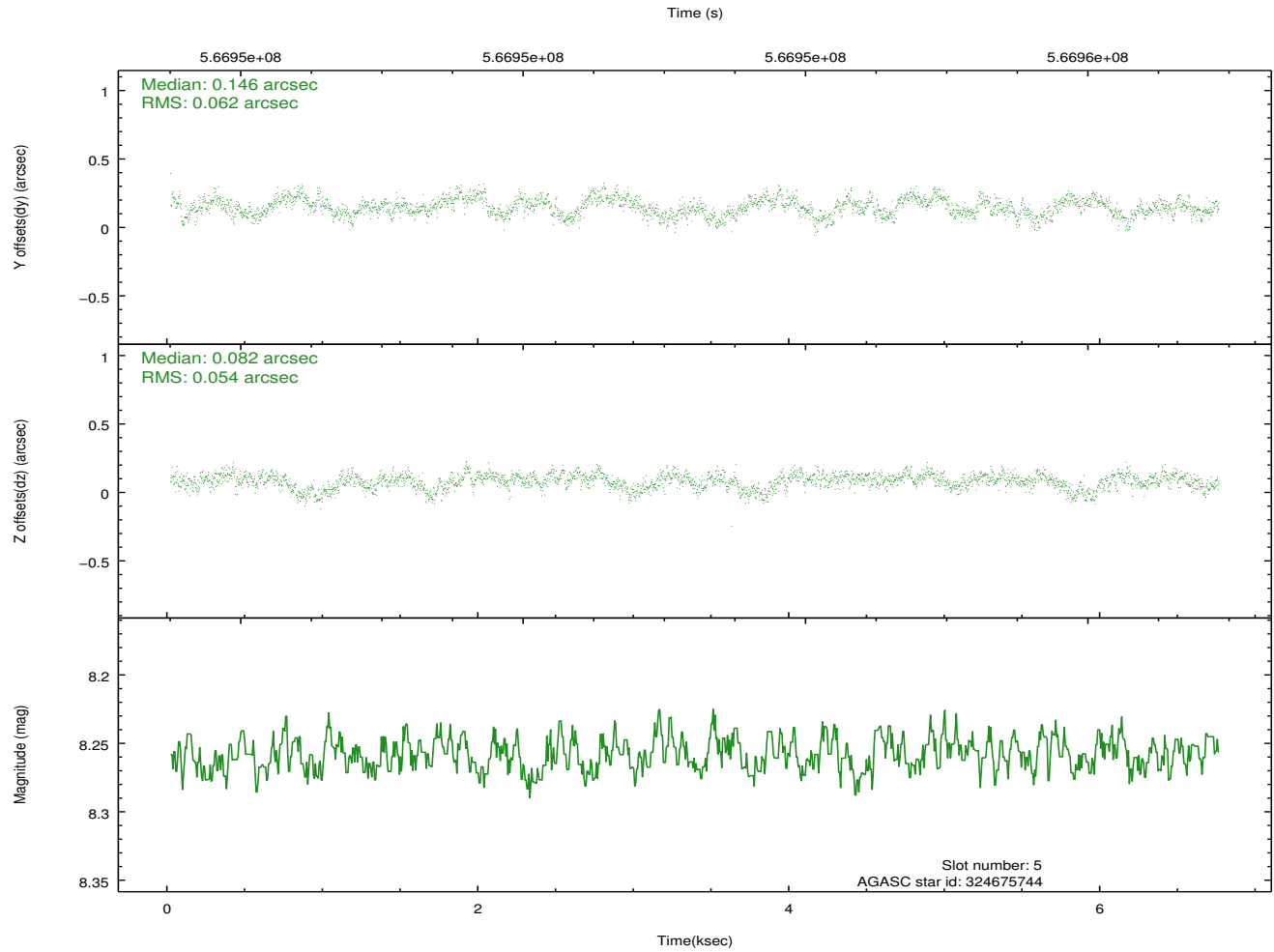
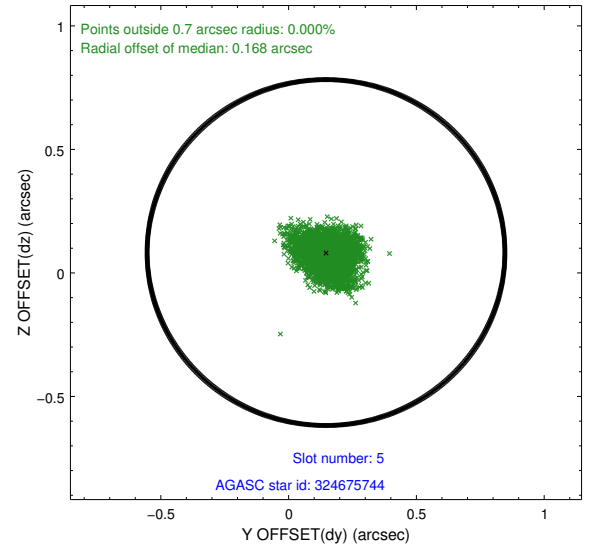
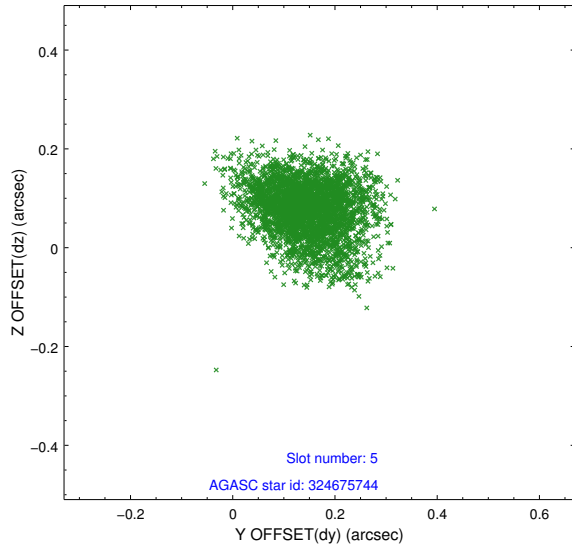
2.4.1 Slot 3



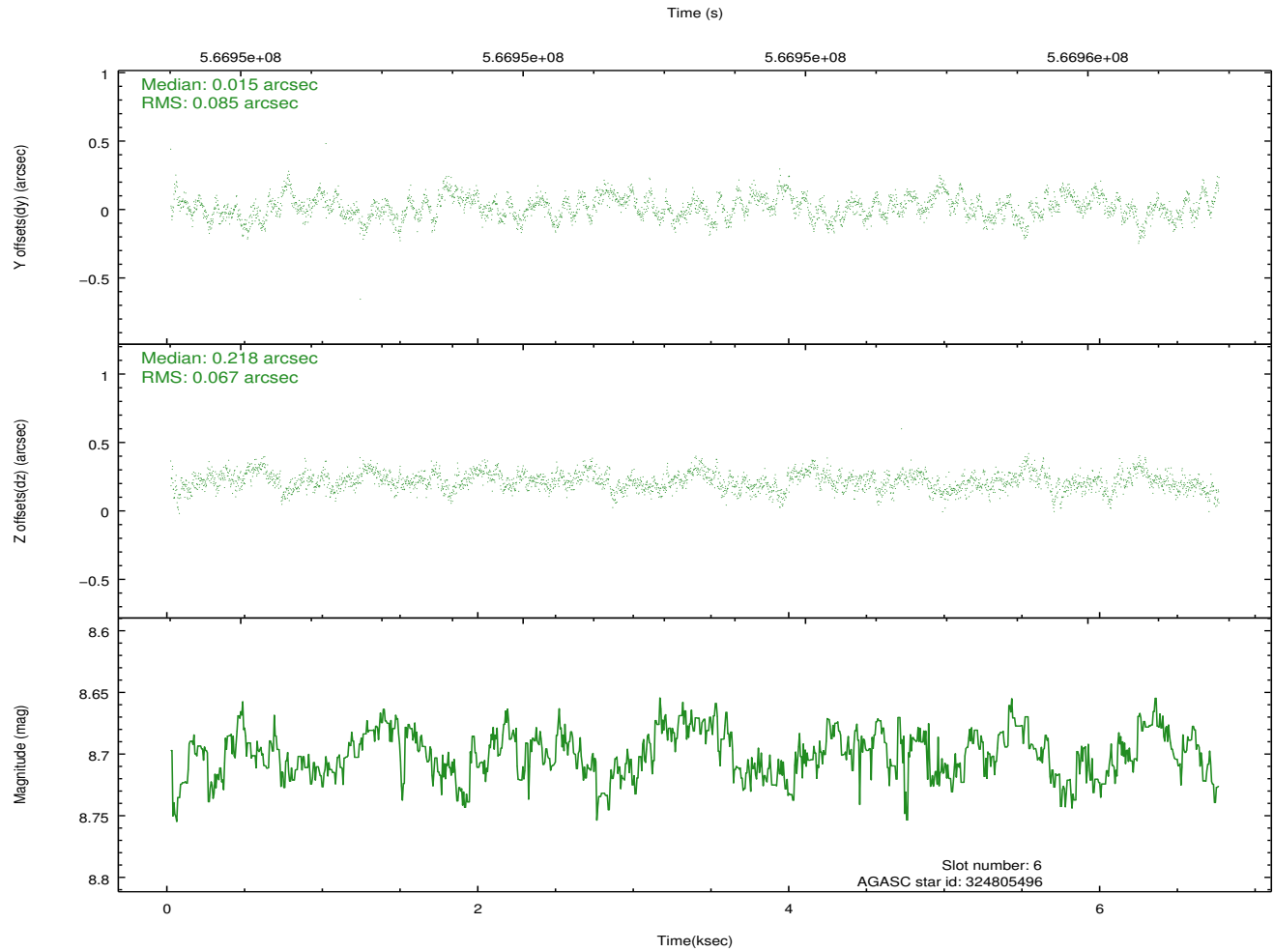
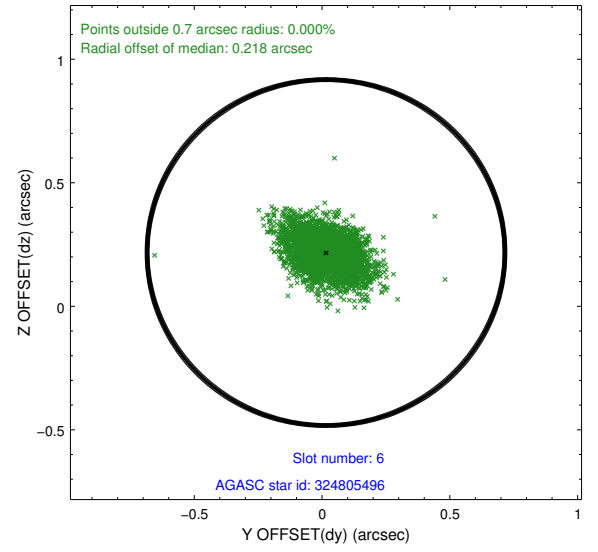
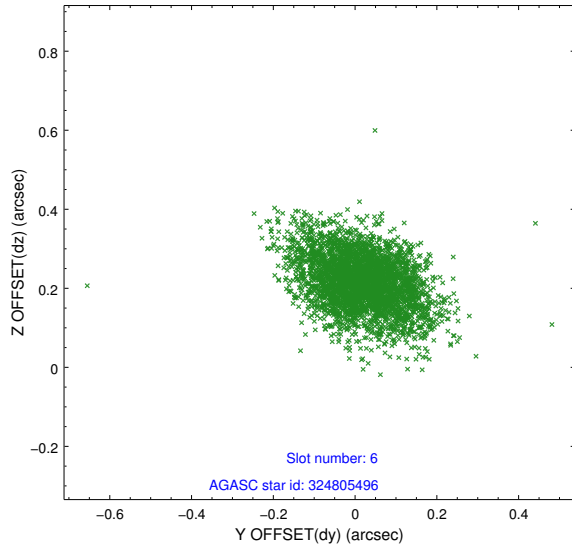
2.4.2 Slot 4



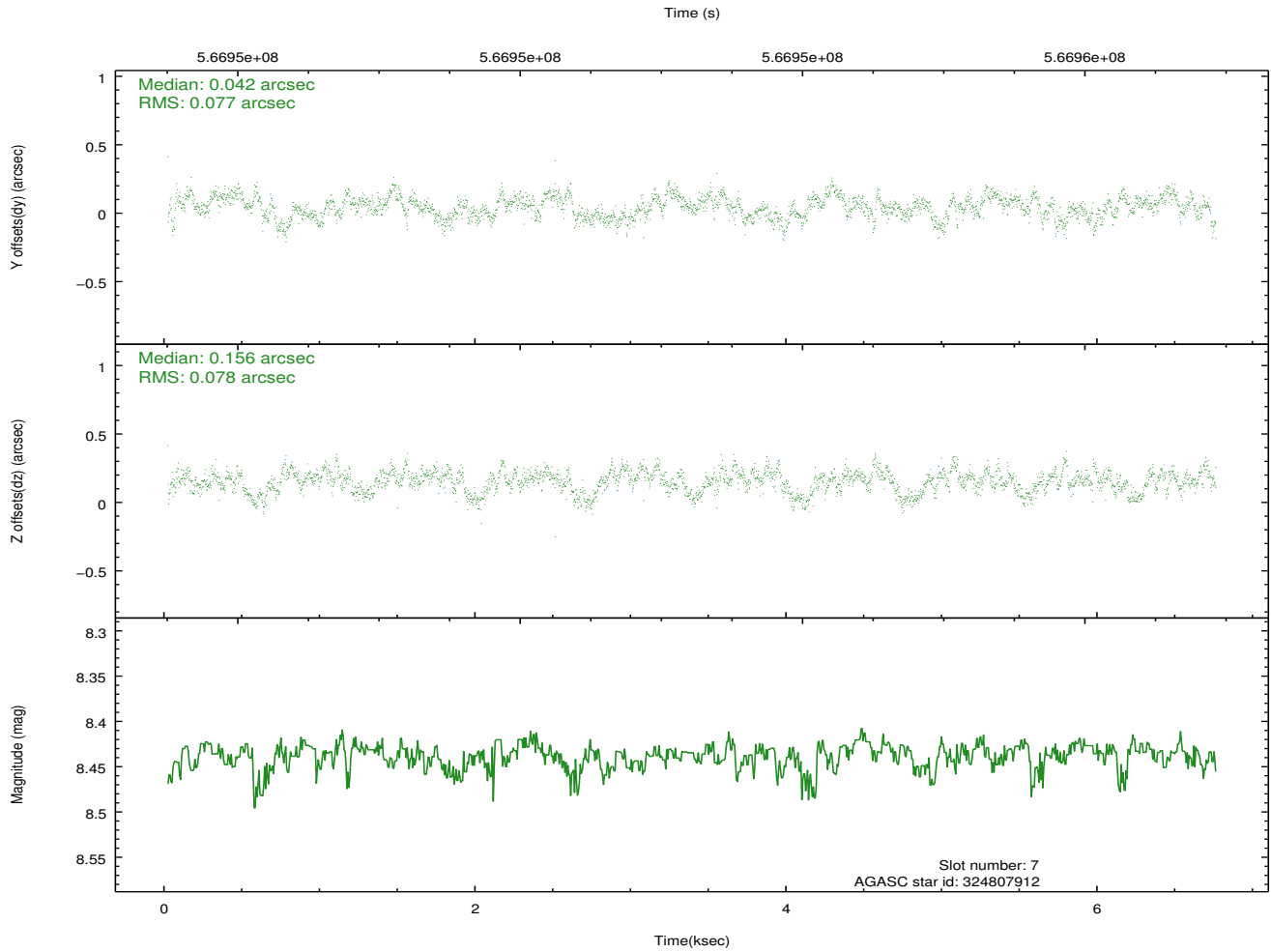
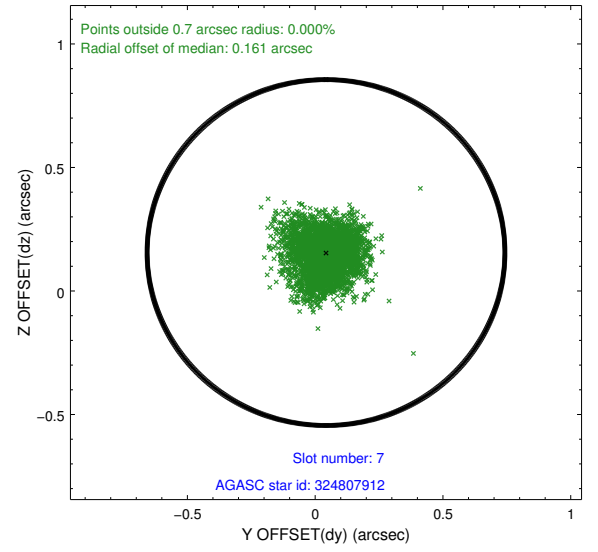
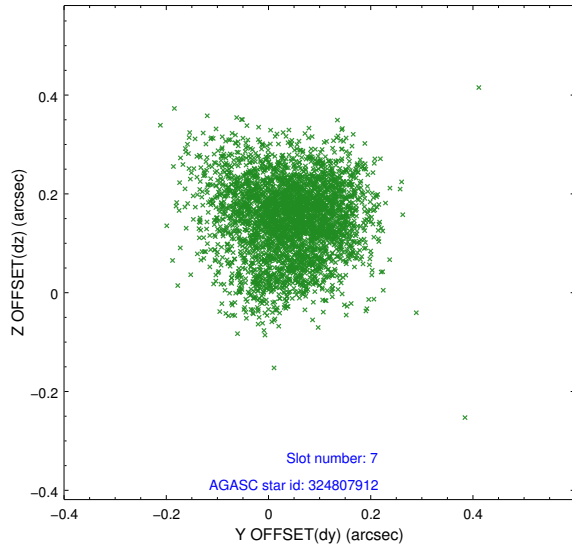
2.4.3 Slot 5



2.4.4 Slot 6

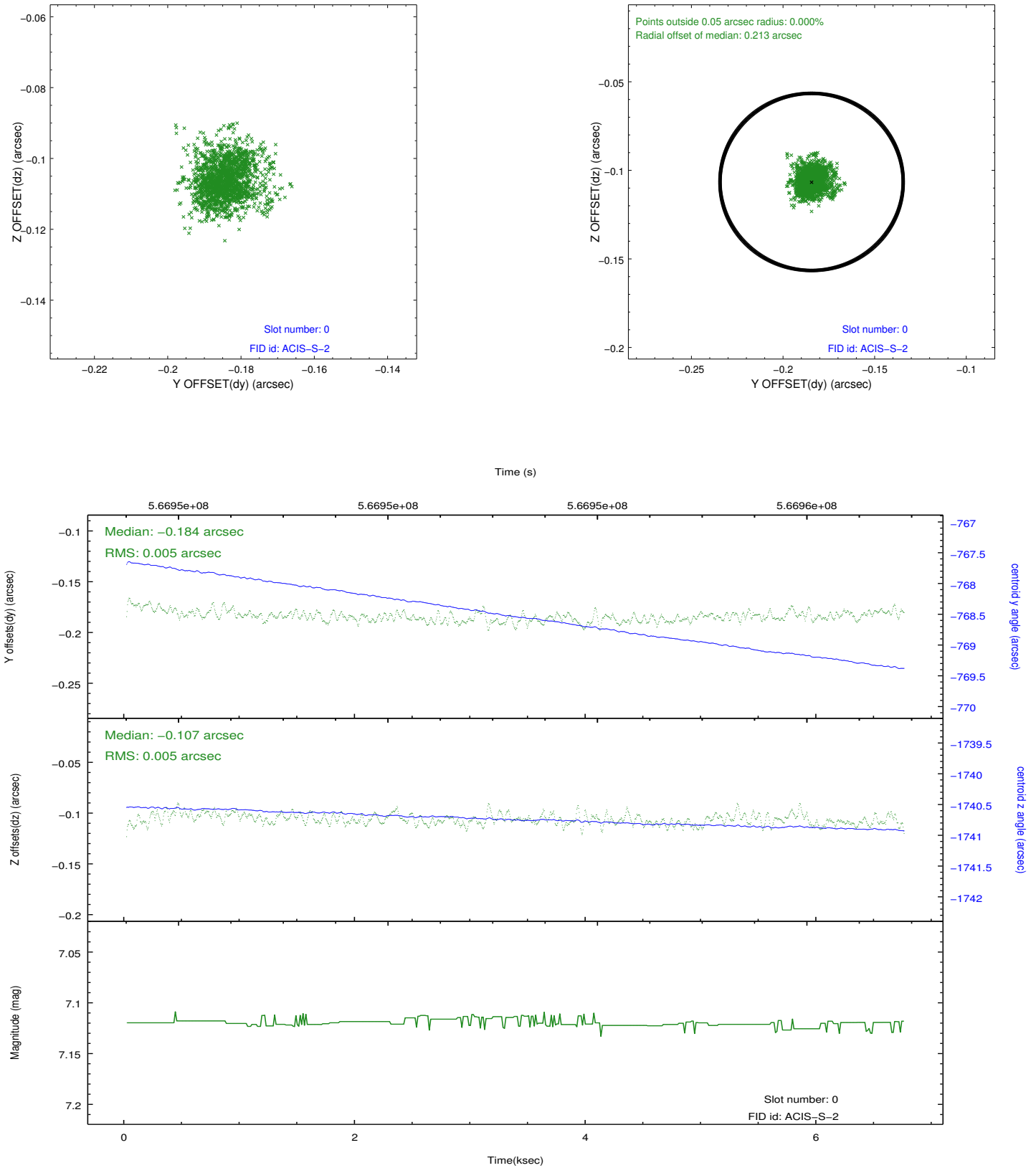


2.4.5 Slot 7

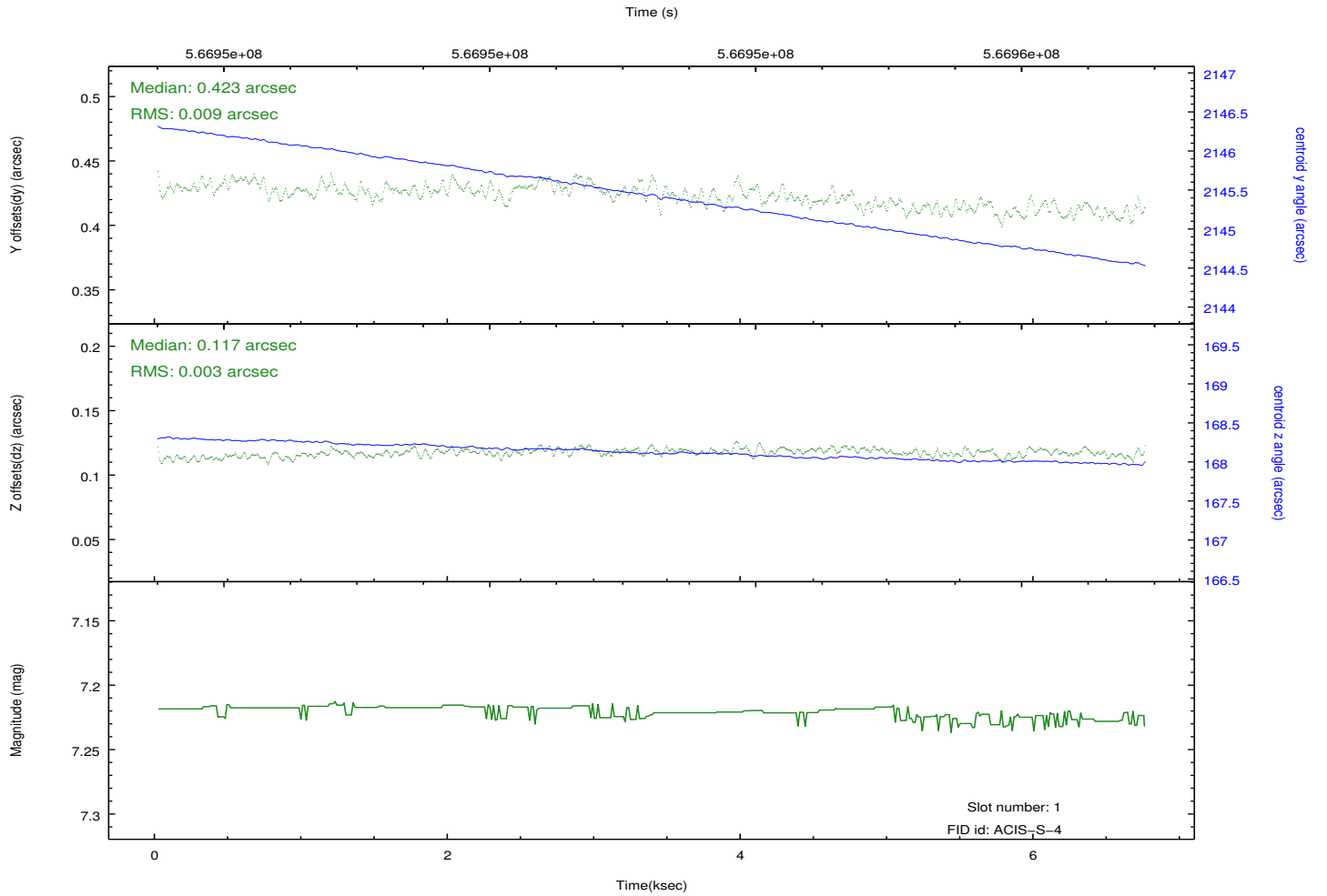
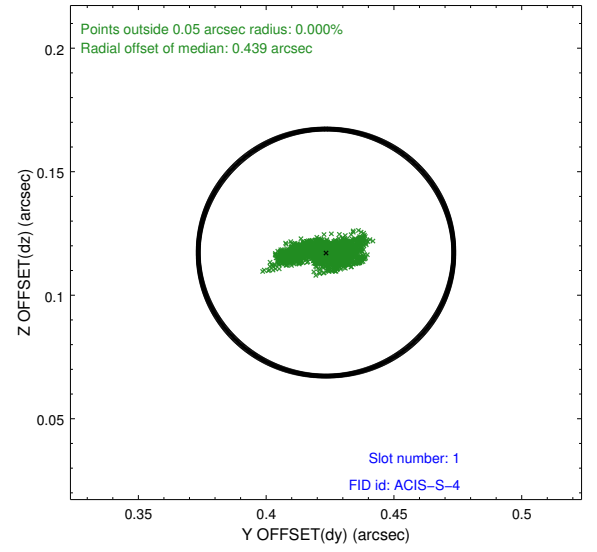
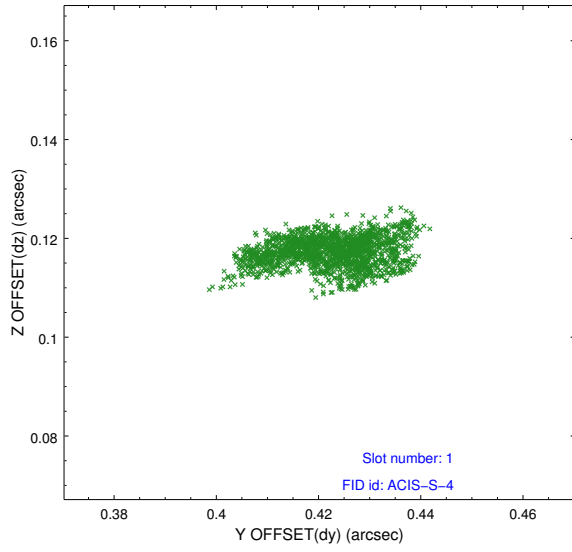


2.5 FID Slots

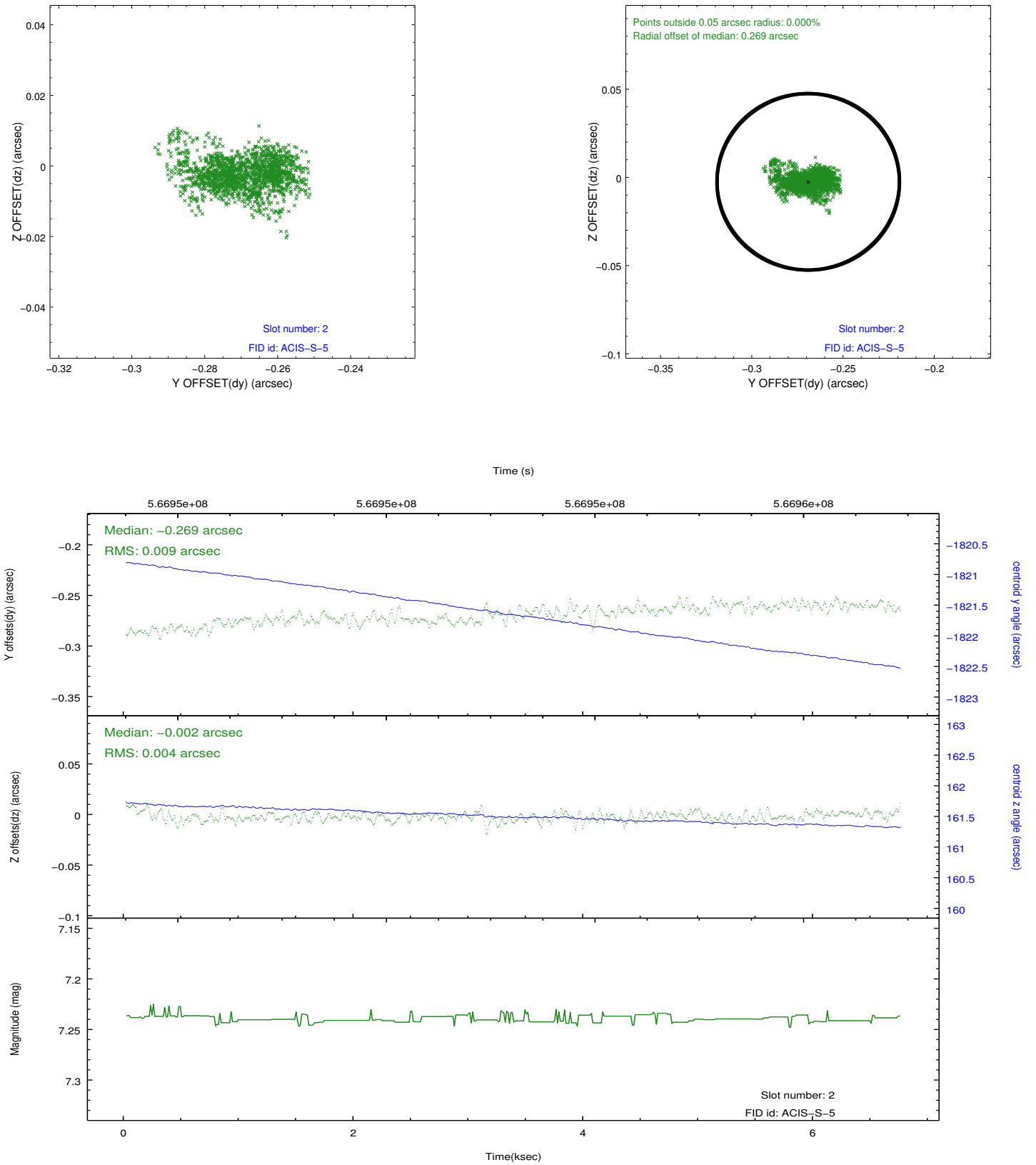
2.5.1 Slot 0



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)	2015.12.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.072464712739

A.2 Comments

Optional CCD I2 not included.