

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 10312 - L2 Version 3
Chandra X-Ray Center

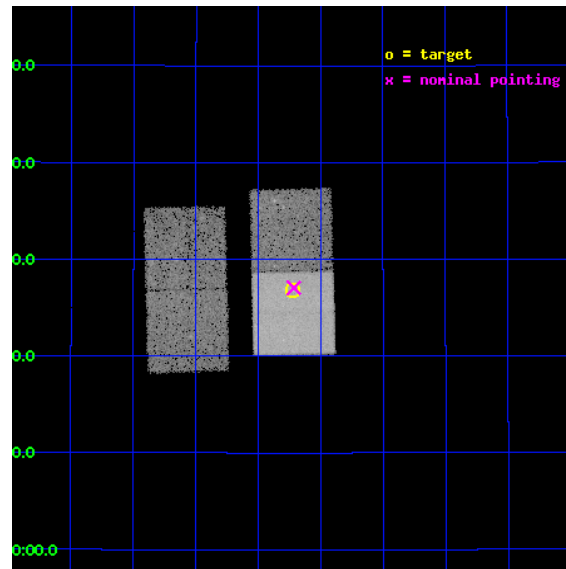
L2 Processing Date : May 25 2012

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

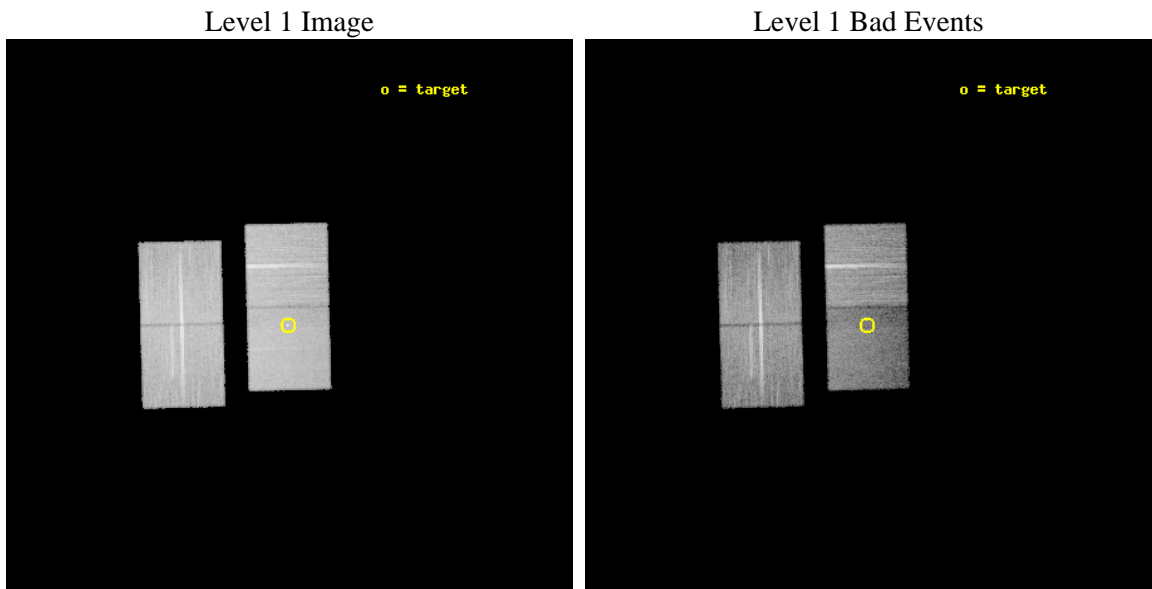
seq_num	701855	Sequence number
obs_id	10312	Observation id
title	Two to Tango? Binary Quasars, their Environments, and the Merger Hypothesis	Proposal title
observer	Dr. Paul Green	Principal investigator
object	SDSSJ0740+2926	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	115.05625	Observer's specified target RA [deg]
dec_targ	29.446778	Observer's specified target Dec [deg]
ra_nom	115.05344140688	Nominal RA [deg]
dec_nom	29.450974991073	Nominal Dec [deg]
roll_nom	88.589325524972	Nominal Roll [deg]
revision	3	Processing version of data
ontime	21135.800162554	Sum of GTIs [s]
livetime	20859.64537348	Livetime [s]
ontime2	21135.800162554	Sum of GTIs [s]
ontime3	21132.659192145	Sum of GTIs [s]
ontime6	21135.800162554	Sum of GTIs [s]
ontime7	21135.800162554	Sum of GTIs [s]
l2events	117295	Number of level 2 events



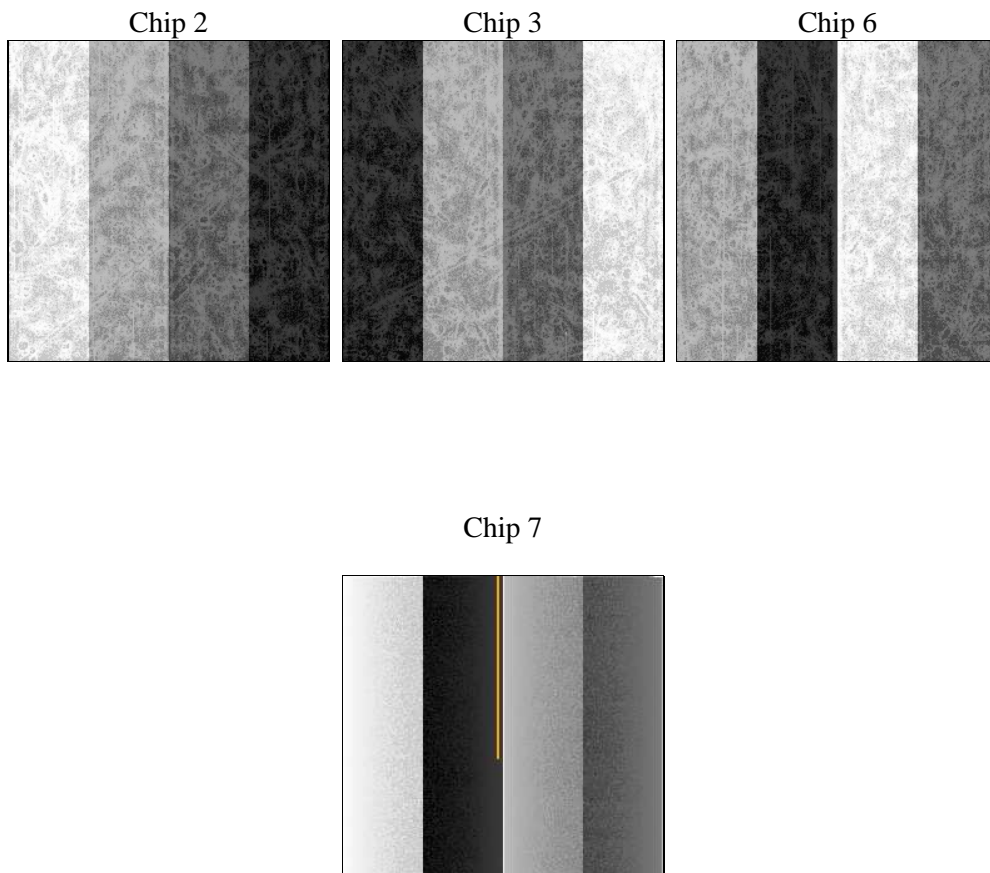
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	21000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	21135.800162554	Sum of GTIs [s]
caldsver	4.4.9	 	ontime2	21135.800162554	Sum of GTIs [s]
date	2012-05-25T18:14:56	Date and time of file creation	ontime3	21132.659192145	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	21135.800162554	Sum of GTIs [s]
			ontime7	21135.800162554	Sum of GTIs [s]
			l1events	680020	Number of level 1 events

2.1.4 Events

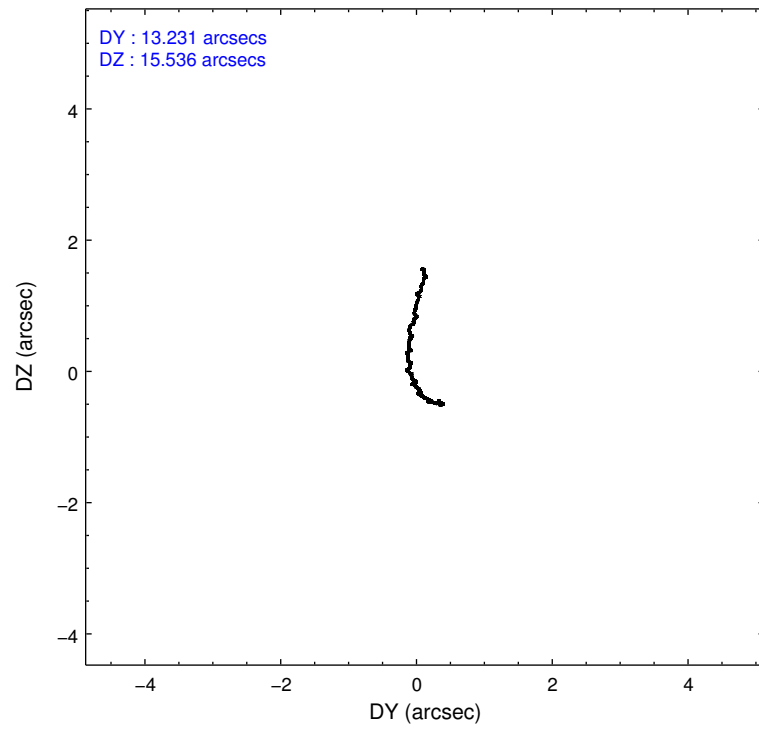
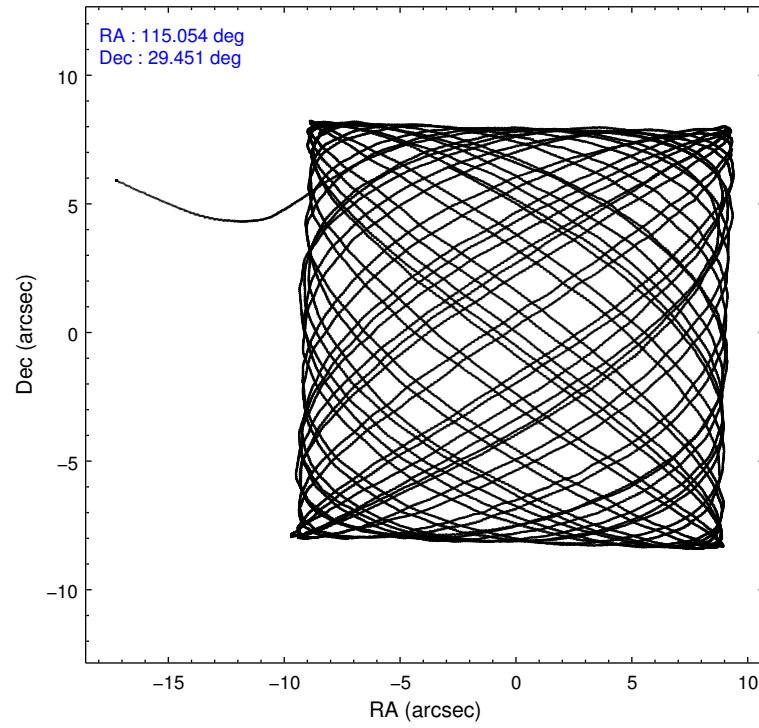
	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	177436	165818	172199	164567
rejected events	161506	150627	155040	85597
rejected %	91%	90%	90%	52%

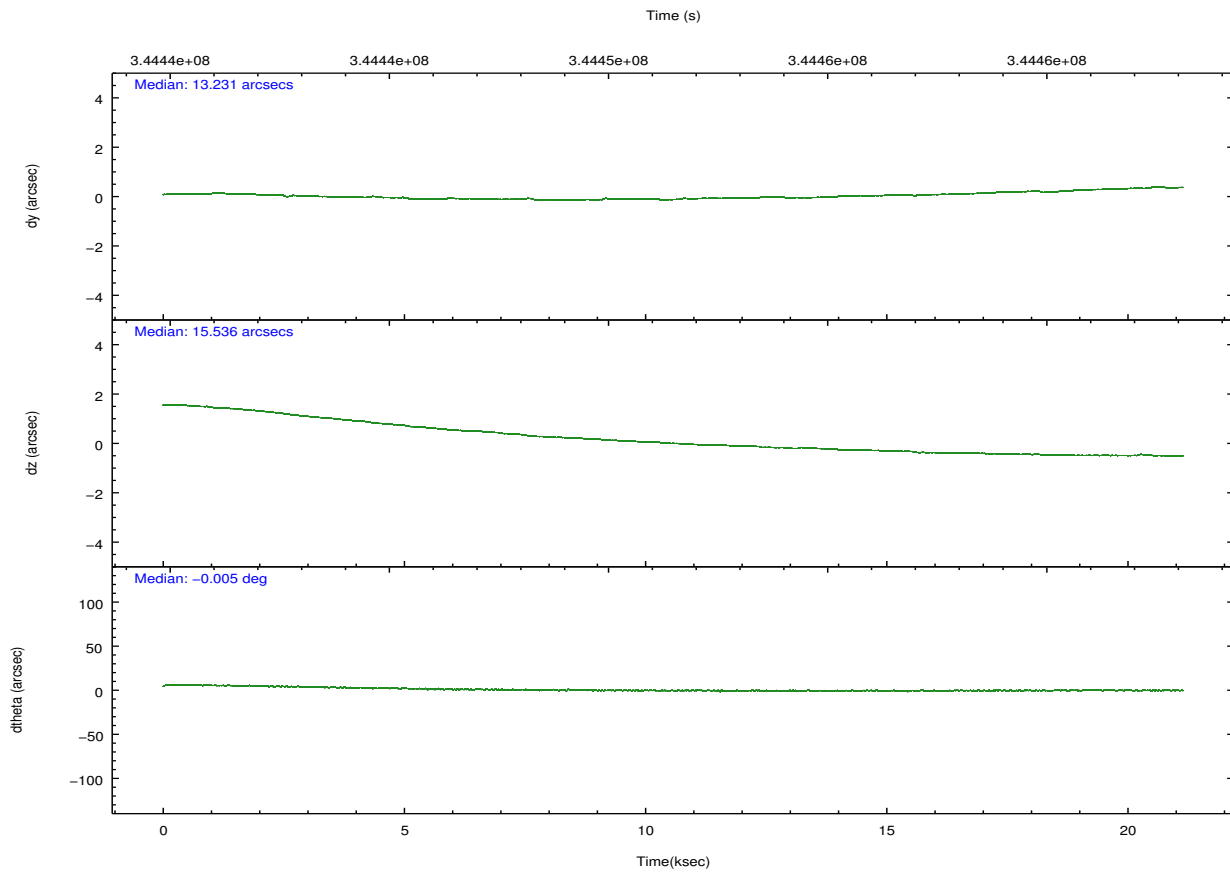
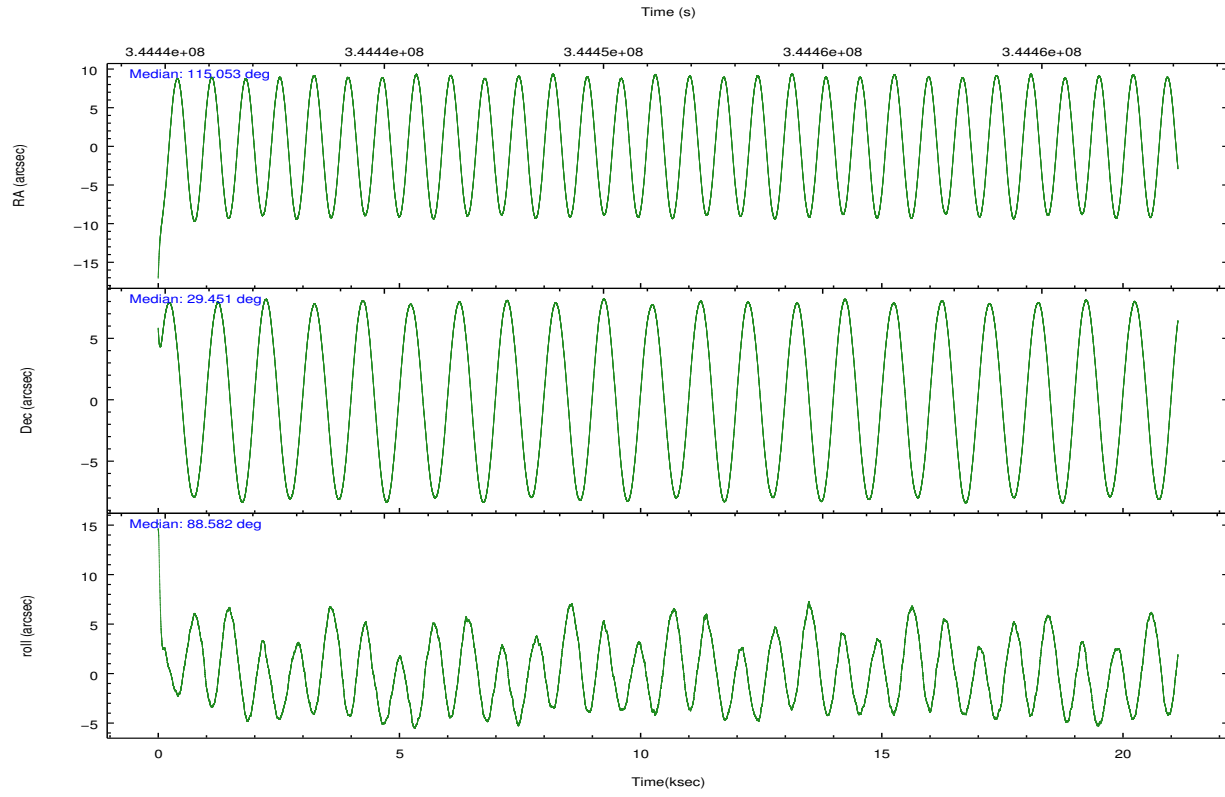
	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	6077	5540	6307	8208
	3%	3%	3%	4%
grade 1 events	108	91	90	273
	0%	0%	0%	0%
grade 2 events	4011	3559	4000	17151
	2%	2%	2%	10%
grade 3 events	1707	1802	1862	7762
	0%	1%	1%	4%
grade 4 events	1759	1777	1903	7734
	0%	1%	1%	4%
grade 5 events	4729	5956	5833	17801
	2%	3%	3%	10%
grade 6 events	2824	2973	3619	40456
	1%	1%	2%	24%
grade 7 events	156221	144120	148585	65182
	88%	86%	86%	39%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-2367	ACIS-2367	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	115.068838	115.0534414068818	CCD I2 on	O1	Y
[deg] Pointing Dec	29.427139	29.45097499107313	CCD I3 on	O2	Y
[deg] Pointing Roll	88.425122	88.58932552497154	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	O3	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	N	N
[s] Observation start time (MET)	344441036.184000	344439808.25093	CCD S5 on	N	N
Observation start date	2008-11-30T14:02:51	2008-11-30T13:43:28	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	344462036.184000	344463469.8646	On-chip summing requested	N	N
Observation end date	2008-11-30T19:52:51	2008-11-30T20:17:49	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



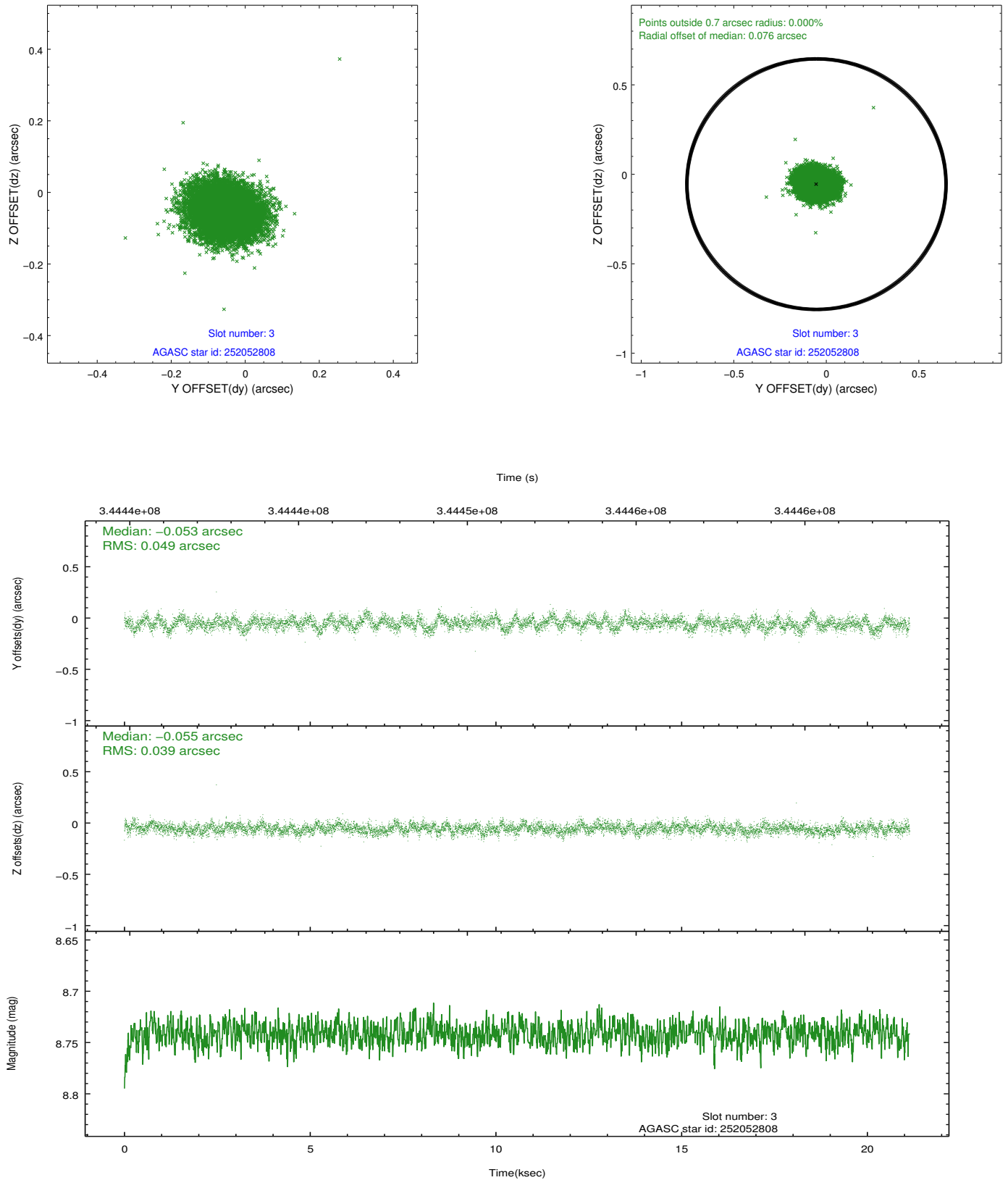


Slot Statistics

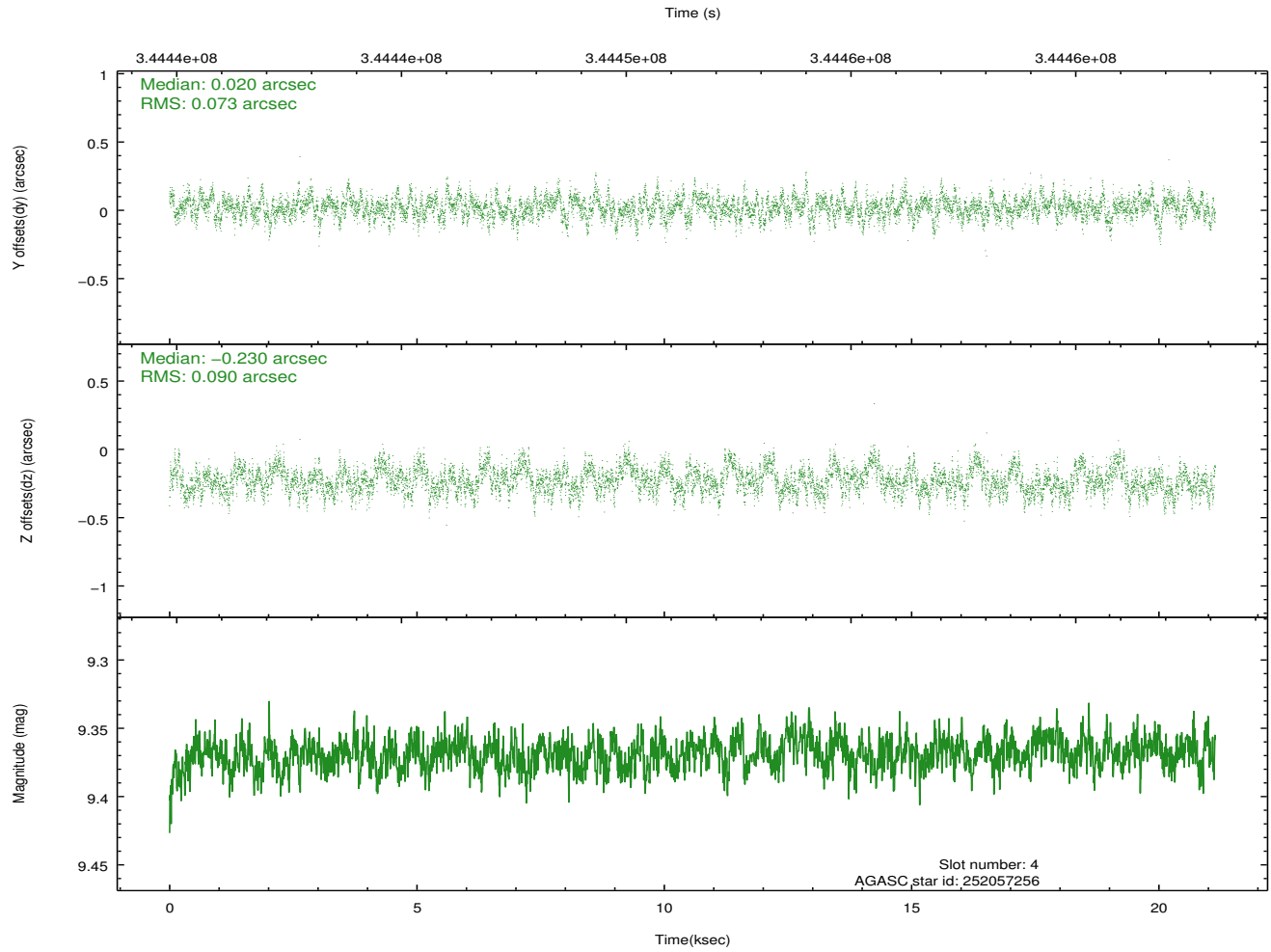
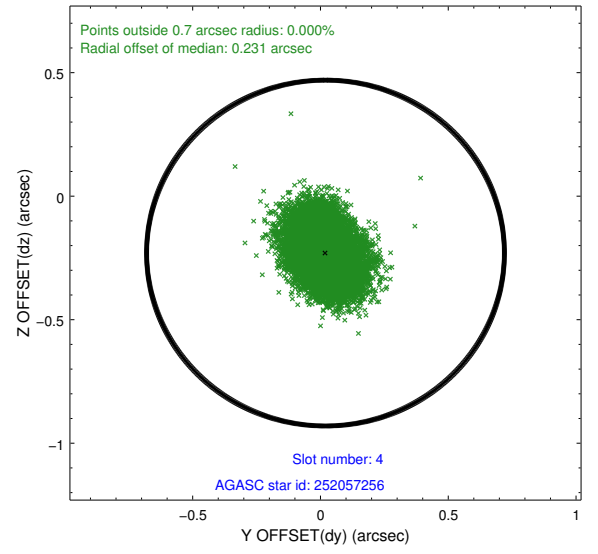
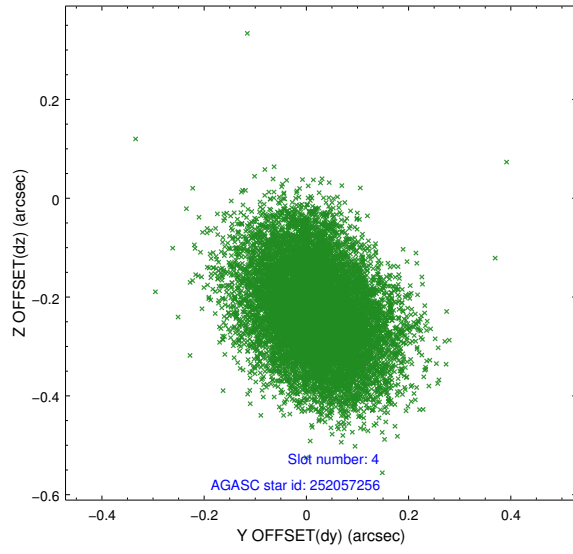
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.89	5156	-0.048	-0.016	0.012	0.029	0.000000	0.000000	-766.21	-1737.11
1	FID	ACIS-S-4	6.98	5155	0.166	0.026	0.009	0.015	0.000000	0.000000	2147.18	171.26
2	FID	ACIS-S-5	7.00	5156	-0.152	-0.003	0.013	0.030	0.000000	0.000000	-1818.97	165.06
3	GUIDE	252052808	8.74	10305	-0.053	-0.055	0.066	0.108	114.992881	29.898882	1691.26	283.94
4	GUIDE	252057256	9.37	10296	0.020	-0.230	0.124	0.199	114.337757	29.202196	-865.45	2274.27
5	GUIDE	252188488	9.54	10292	0.009	0.156	0.104	0.171	115.731497	29.834215	1527.88	-2027.68
6	GUIDE	252196488	7.04	10311	0.025	0.184	0.063	0.104	115.667880	28.833856	-2077.88	-1947.35
7	GUIDE	252058248	9.83	10295	0.003	-0.058	0.112	0.184	114.583021	29.368330	-250.61	1517.70

2.4 Star Slots

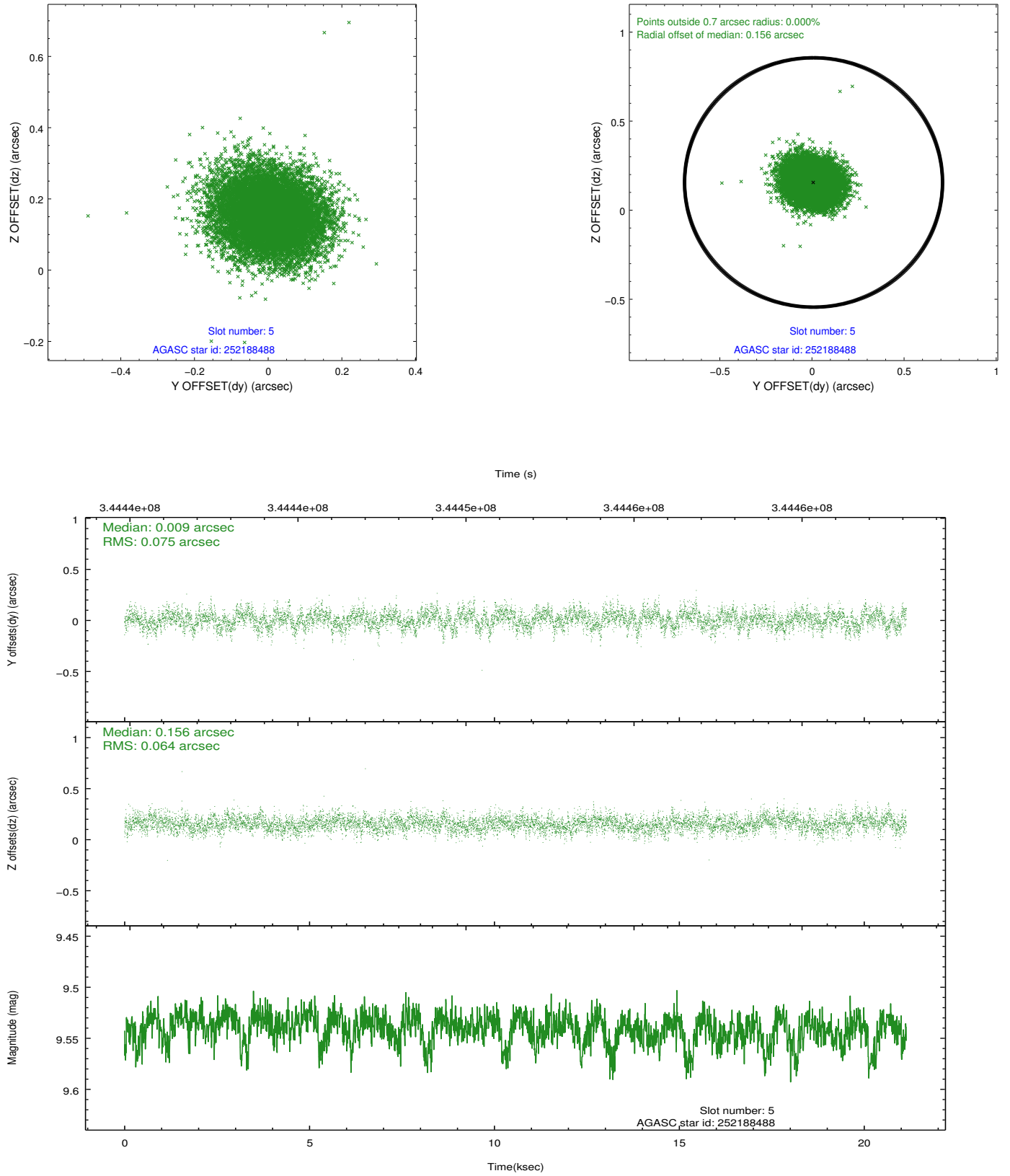
2.4.1 Slot 3



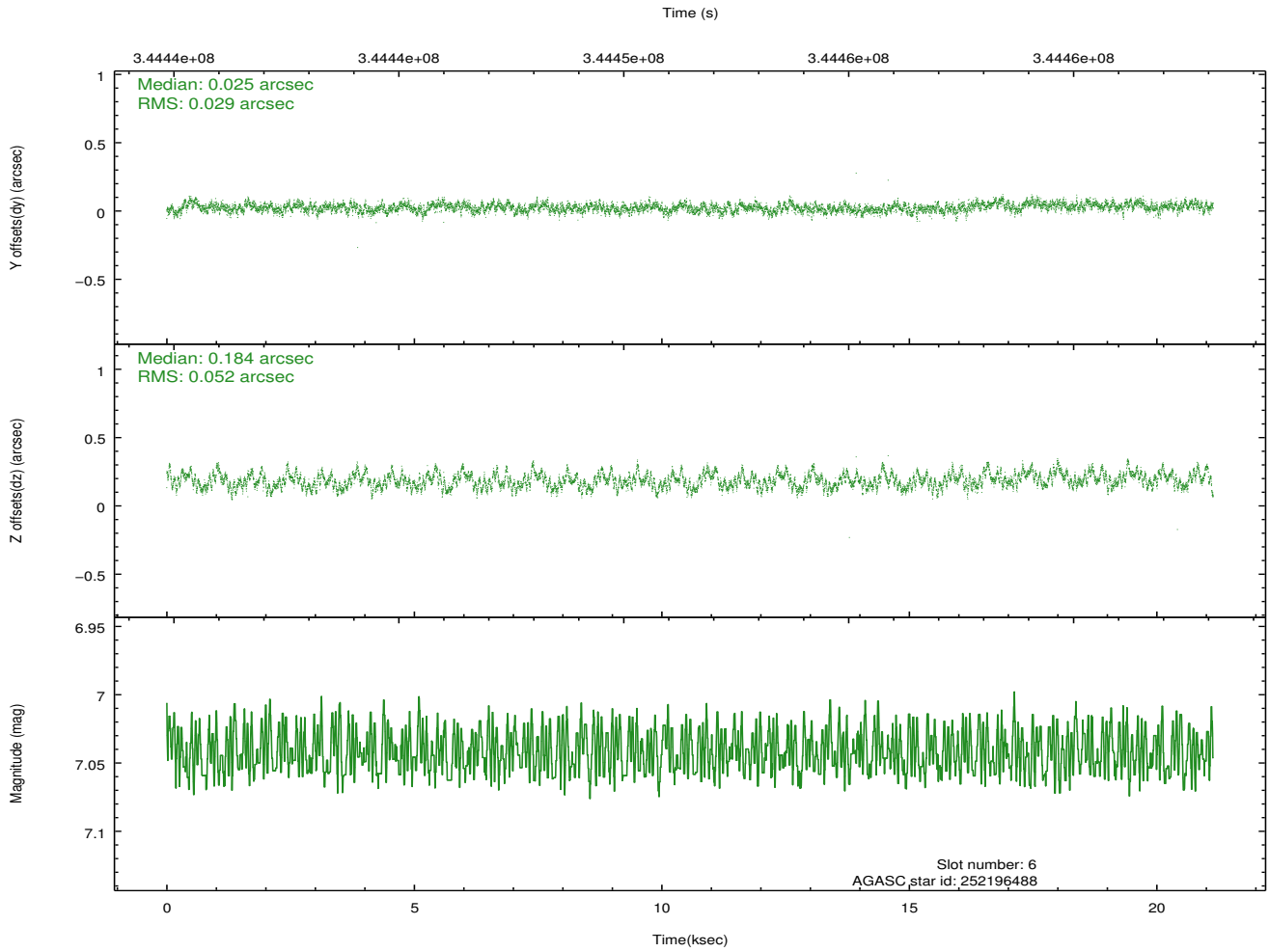
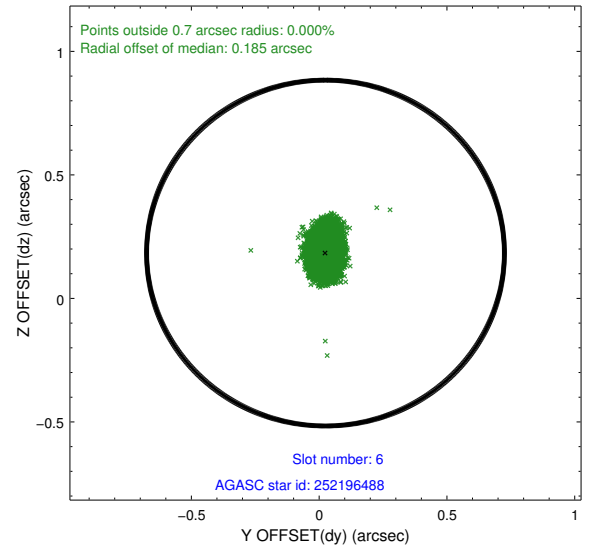
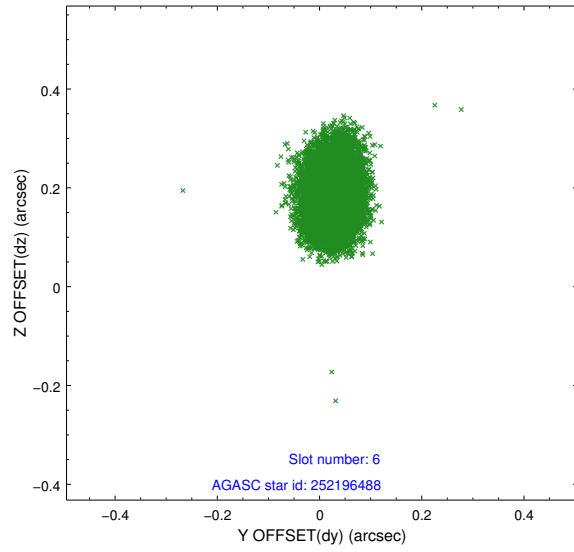
2.4.2 Slot 4



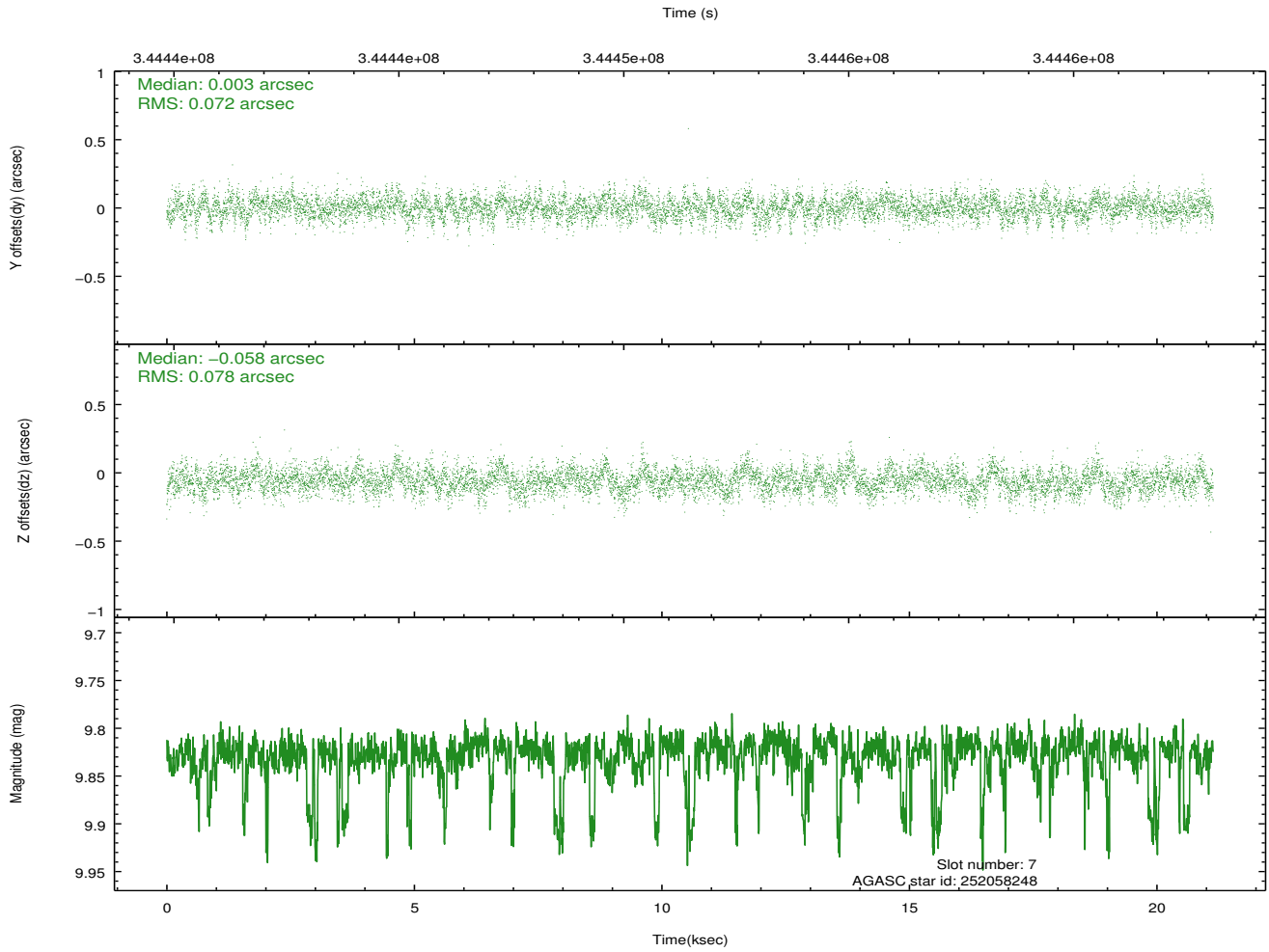
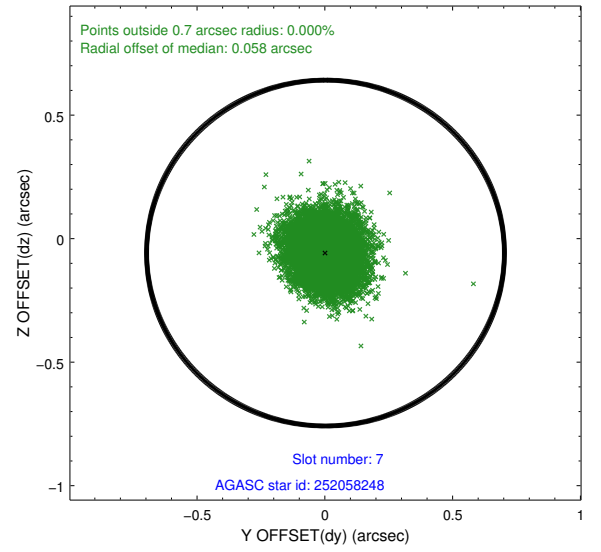
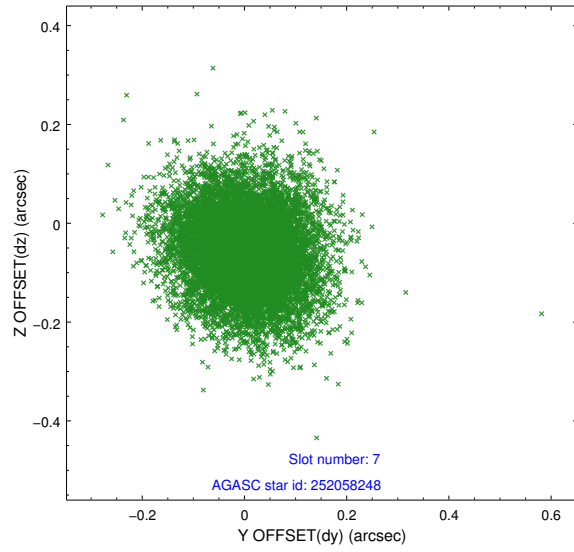
2.4.3 Slot 5



2.4.4 Slot 6

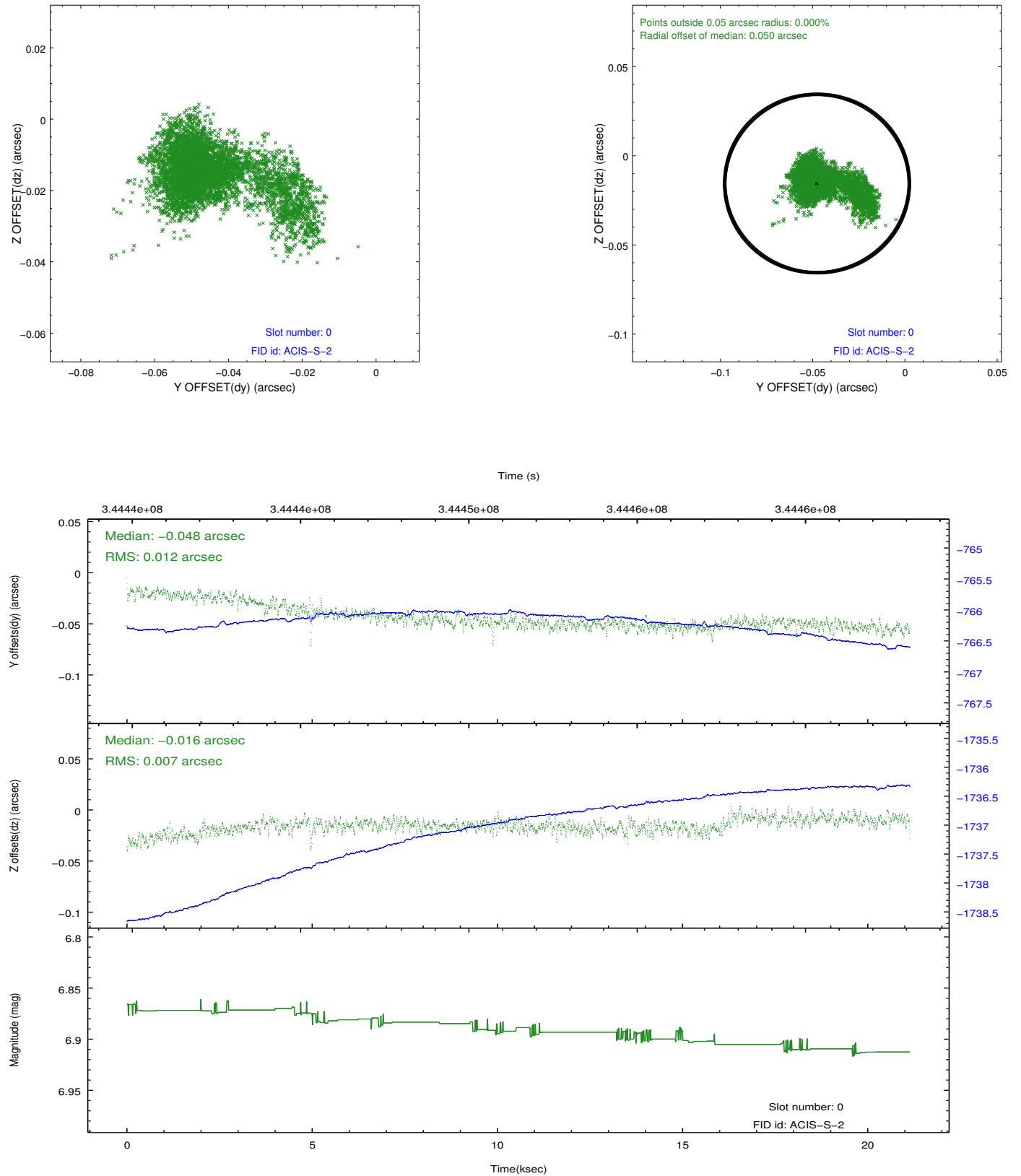


2.4.5 Slot 7

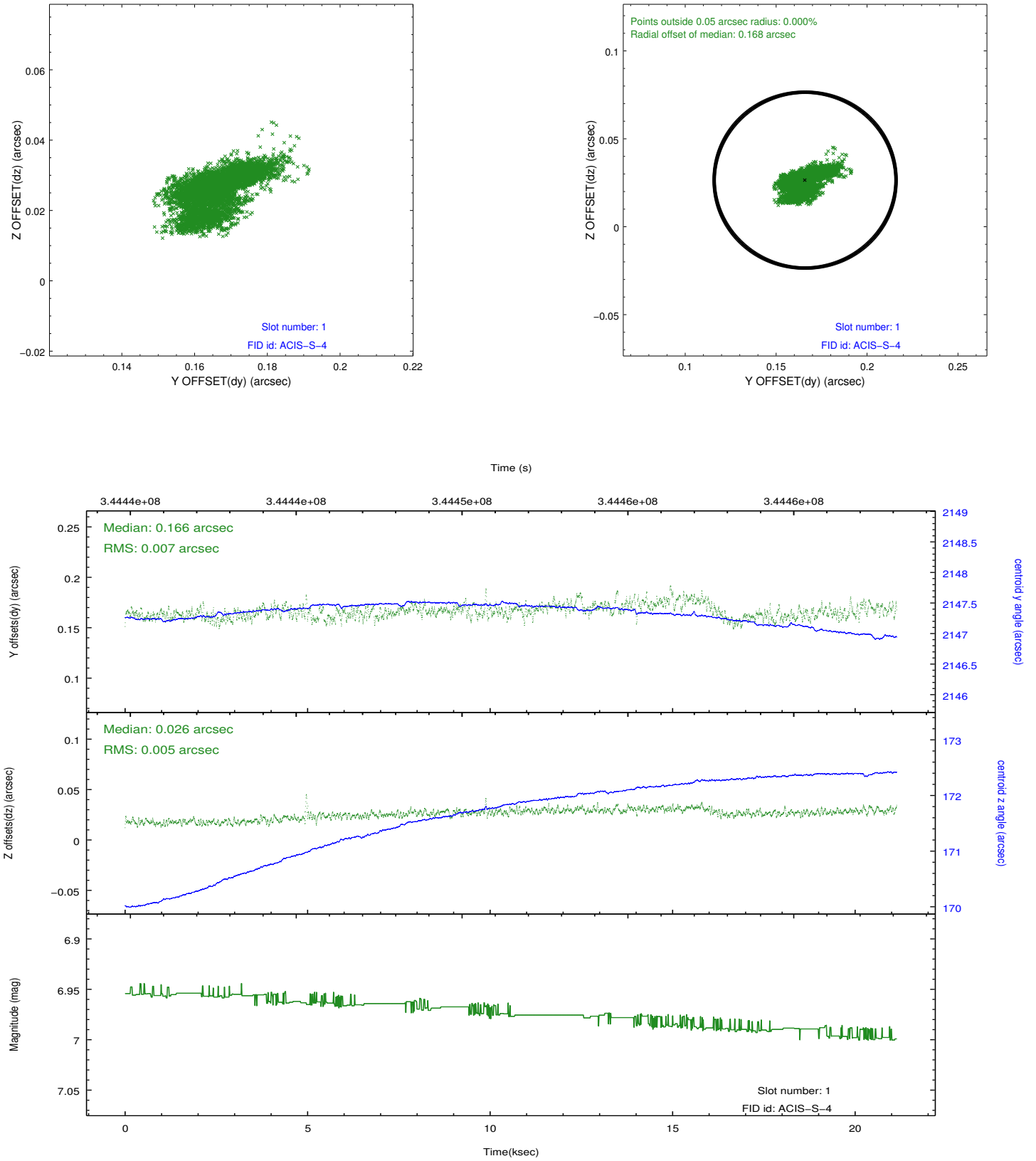


2.5 FID Slots

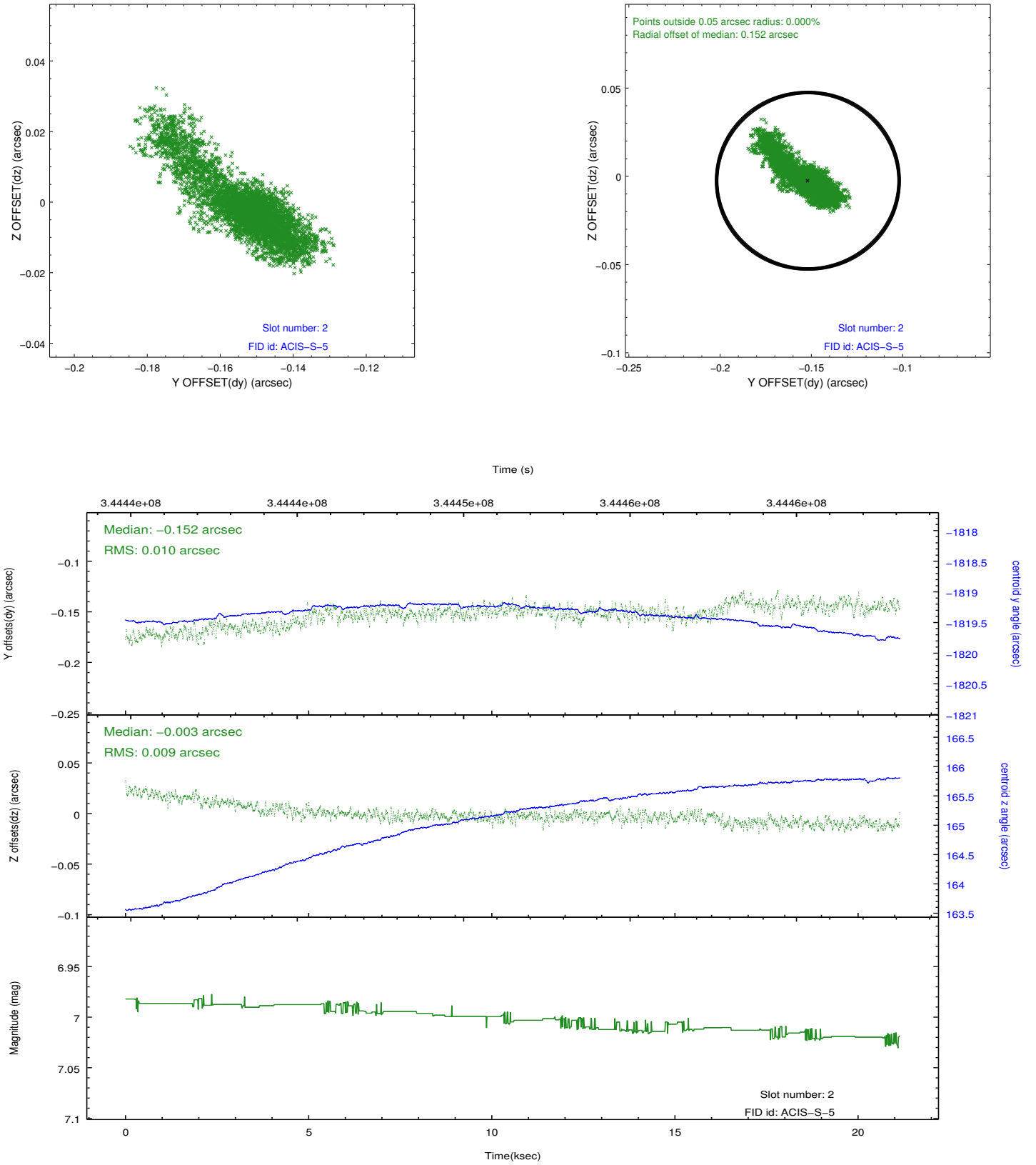
2.5.1 Slot 0



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)	2012.06.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	21.1358

A.2 Comments

Joint proposal with NOAO. Observer preference that chip S1 be turned on for roll angles $35 > \text{roll} > 340$ was not satisfied.

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On rare occasions, an anomaly in the instrument causes exposure numbers of records of ACIS data to appear out of order in telemetry or otherwise not be telemetered in the expected manner. This condition can cause a failure to process, or incorrectly processed data products. This obsid originally suffered from this anomaly. The corrupted raw data has been removed for this reprocessing of the data. There should be no discernible negative effect on the science data products. The charge time has been adjusted due to the use of revised raw input data.