

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 12078 - L2 Version 2
Chandra X-Ray Center

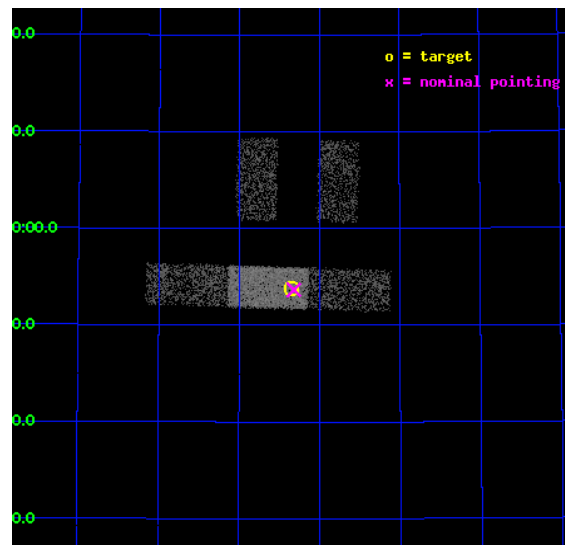
L2 Processing Date : Jun 21 2012

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

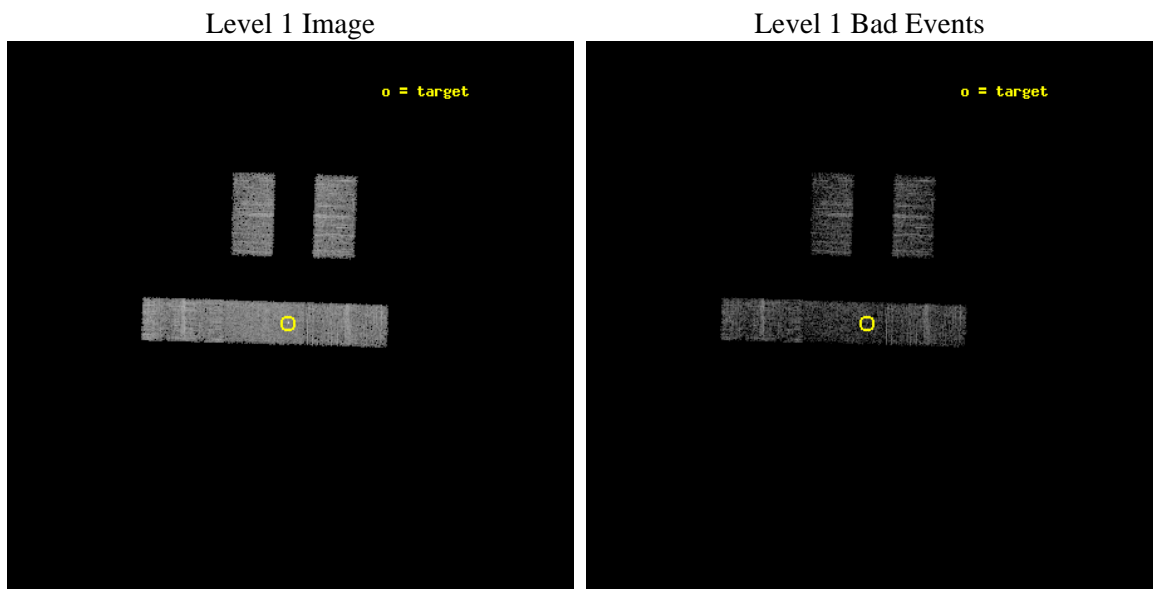
seq_num	702308	Sequence number
obs_id	12078	Observation id
title	Gravitationally lensed quasar Q0957+561AB in outburst	Proposal tit
observer	Dr Luis Goicoechea	Principal investigator
object	Q0957+561	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	150.336667	Observer's specified target RA [deg]
dec_targ	55.897056	Observer's specified target Dec [deg]
ra_nom	150.32955628926	Nominal RA [deg]
dec_nom	55.8944650107	Nominal Dec [deg]
roll_nom	181.7368076915	Nominal Roll [deg]
revision	2	Processing version of data
ontime	3182.3999777436	Sum of GTIs [s]
livetime	3107.3840705349	Livetime [s]
ontime2	3180.6589875817	Sum of GTIs [s]
ontime3	3182.3999777436	Sum of GTIs [s]
ontime6	3182.3999777436	Sum of GTIs [s]
ontime7	3182.3999777436	Sum of GTIs [s]
ontime8	3182.3999777436	Sum of GTIs [s]
l2events	13020	Number of level 2 events



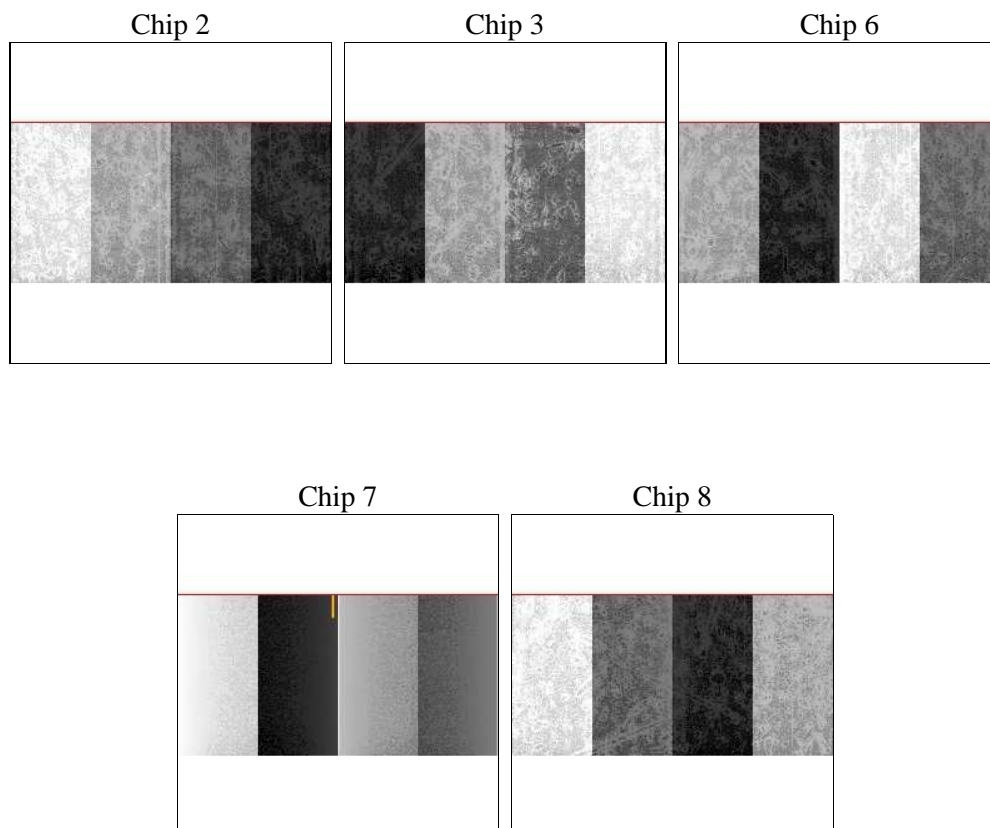
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	3000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	3182.3999777436	Sum of GTIs [s]
caldsver	4.4.10	 	ontime2	3180.6589875817	Sum of GTIs [s]
date	2012-06-21T14:47:51	Date and time of file creation	ontime3	3182.3999777436	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	3182.3999777436	Sum of GTIs [s]
			ontime7	3182.3999777436	Sum of GTIs [s]
			ontime8	3182.3999777436	Sum of GTIs [s]
			l1events	93342	Number of level 1 events

2.1.4 Events

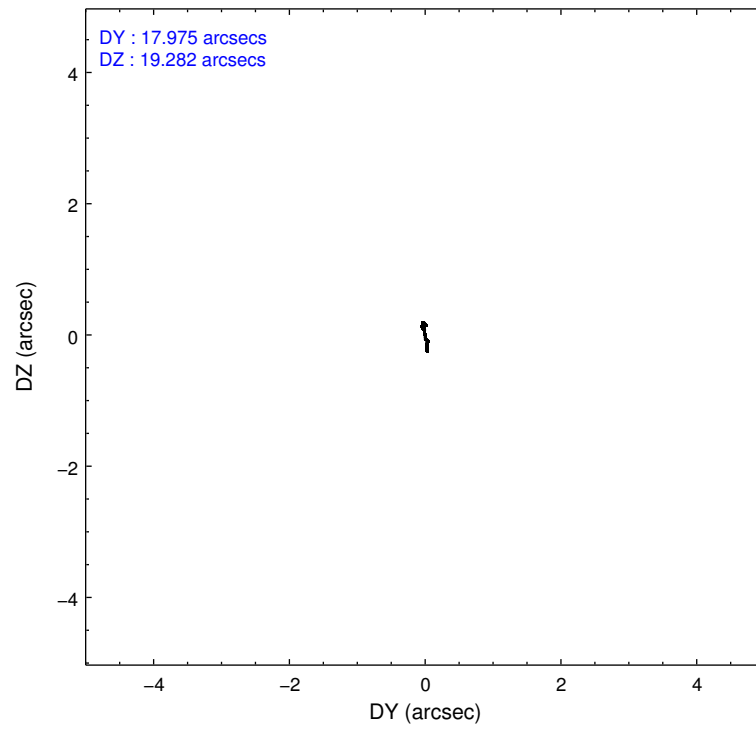
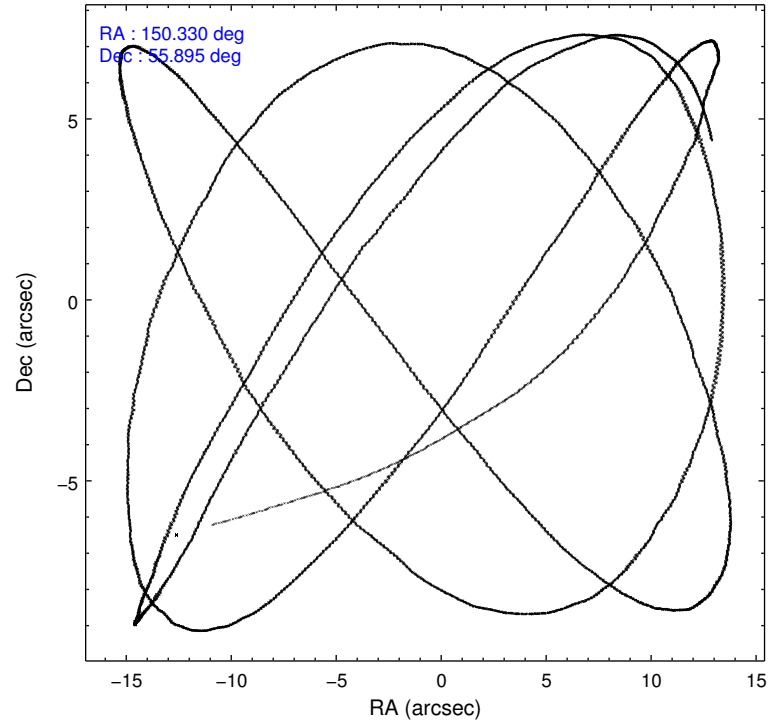
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	17466	15754	17693	19948	22481
rejected events	16062	14362	16111	11915	17630
rejected %	91%	91%	91%	59%	78%

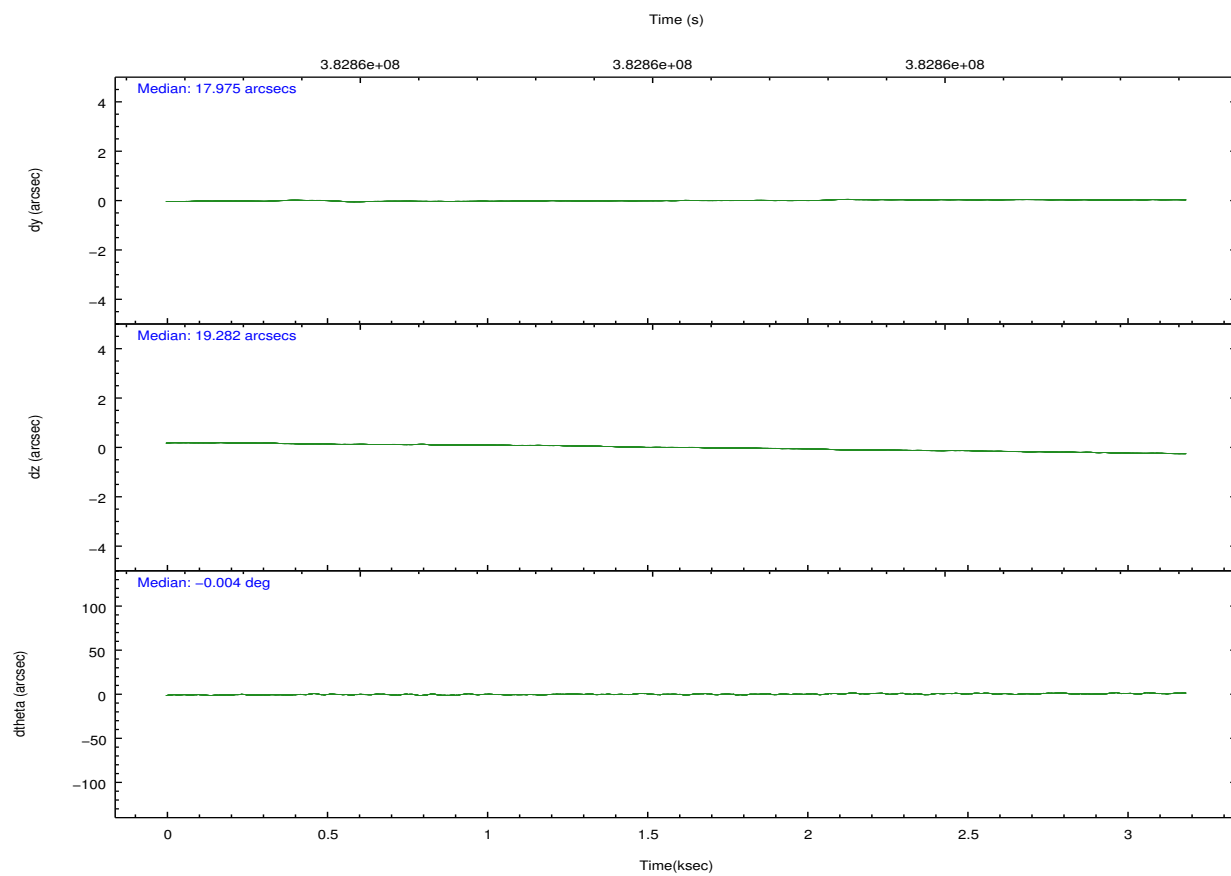
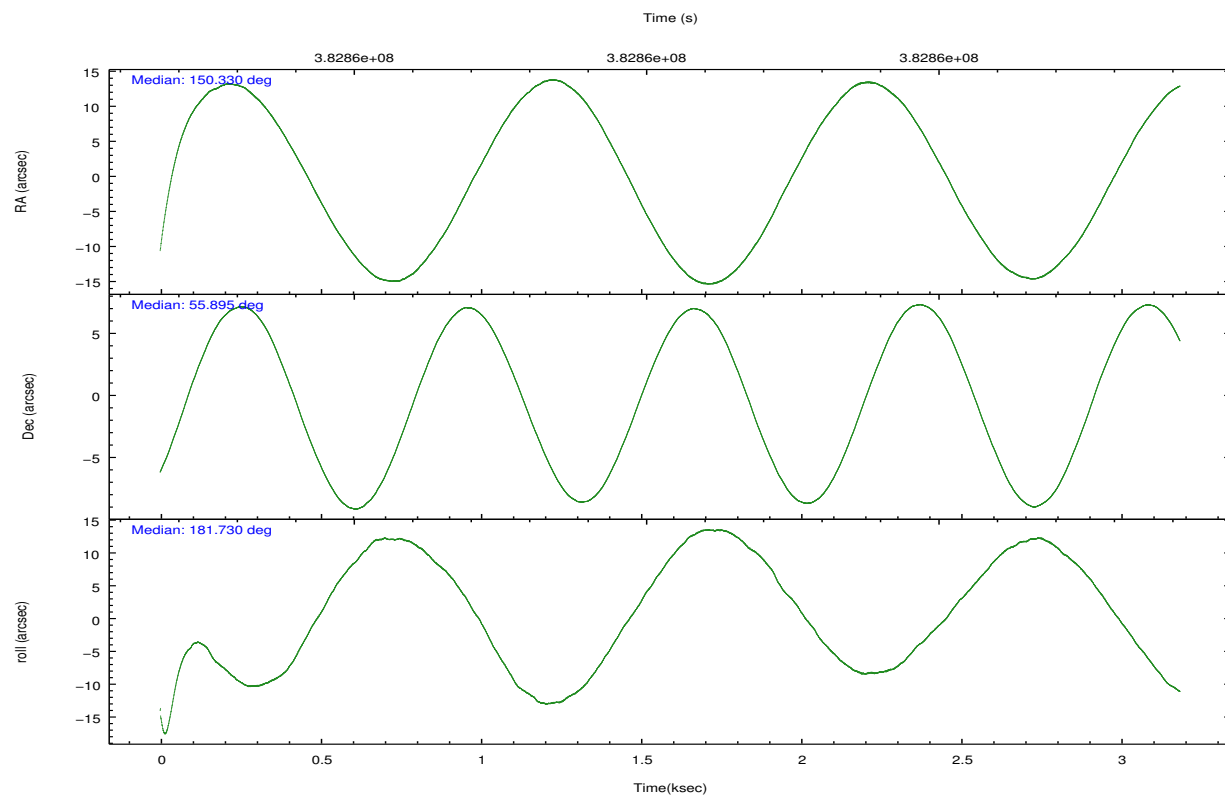
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	579	522	613	1113	1722
	3%	3%	3%	5%	7%
grade 1 events	3	4	7	34	19
	0%	0%	0%	0%	0%
grade 2 events	391	342	401	2076	1266
	2%	2%	2%	10%	5%
grade 3 events	219	219	257	962	572
	1%	1%	1%	4%	2%
grade 4 events	227	210	241	939	553
	1%	1%	1%	4%	2%
grade 5 events	539	738	683	2081	979
	3%	4%	3%	10%	4%
grade 6 events	301	350	378	4519	1475
	1%	2%	2%	22%	6%
grade 7 events	15207	13369	15113	8224	15895
	87%	84%	85%	41%	70%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	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	150.370585	150.3295562892609	CCD I2 on	O4	Y
[deg] Pointing Dec	55.909081	55.8944650107003	CCD I3 on	O3	Y
[deg] Pointing Roll	181.546301	181.7368076915006	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	O1	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	O2	Y
[s] Observation start time (MET)	382862676.184000	382861549.26034	CCD S5 on	N	N
Observation start date	2010-02-18T06:43:30	2010-02-18T06:25:49	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	382865676.184000	382866727.5606	On-chip summing requested	N	N
Observation end date	2010-02-18T07:33:30	2010-02-18T07:52:07	Subarray requested	CUSTOM	1/2
Read mode	TIMED	TIMED	Subarray start row	257	257
			Subarray row count	512	512
			Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	1.7

2.3 Aspect



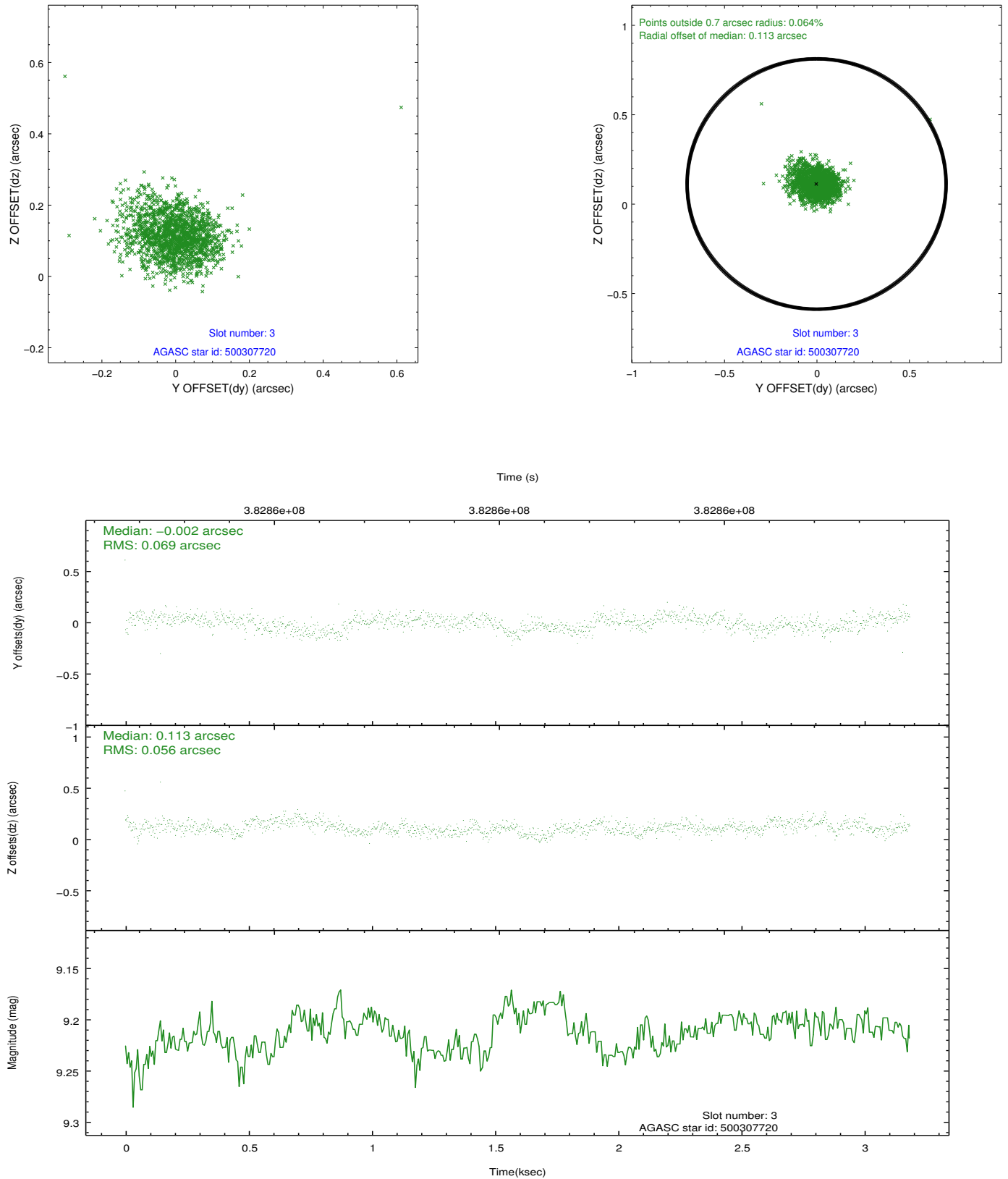


Slot Statistics

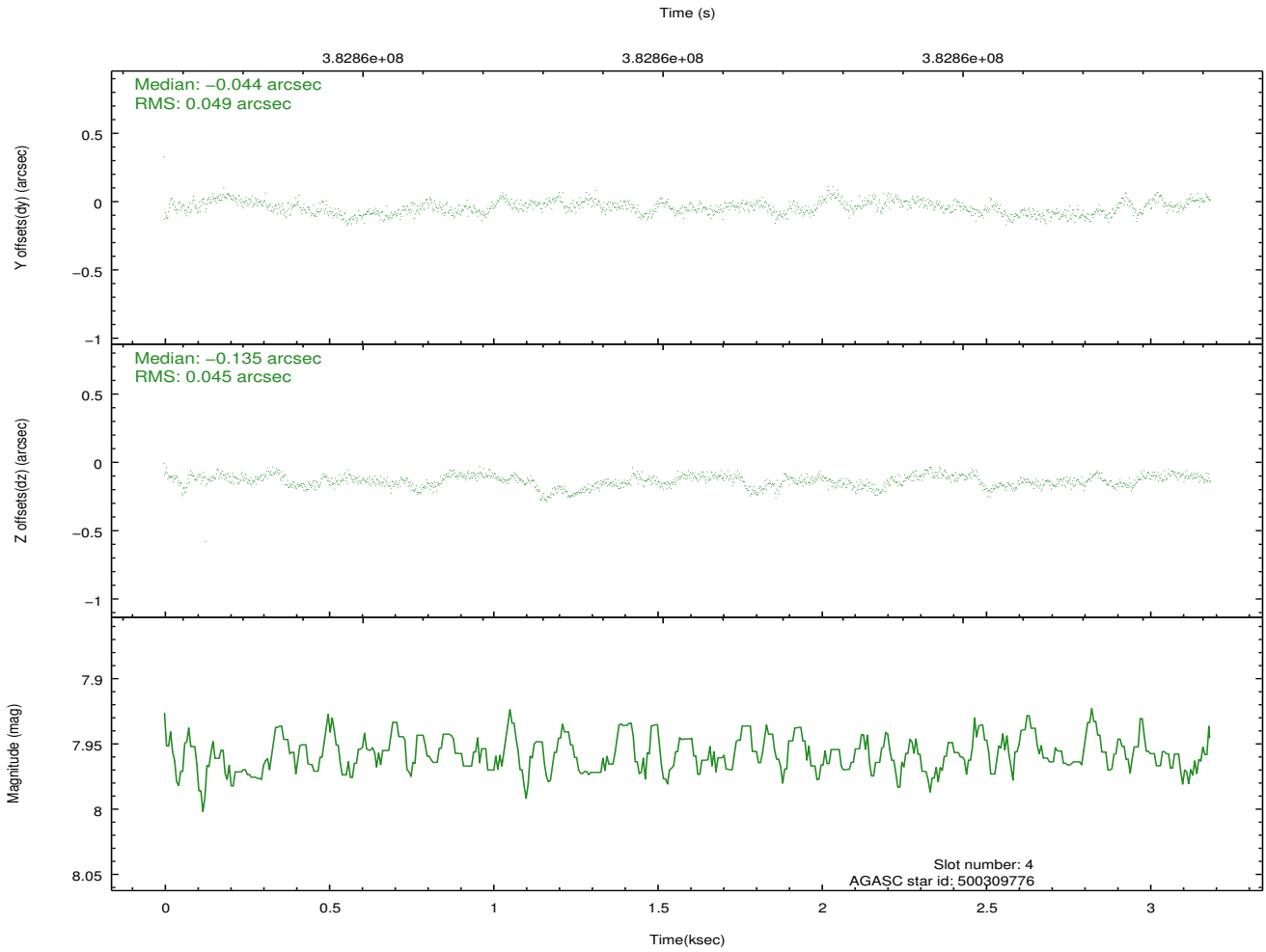
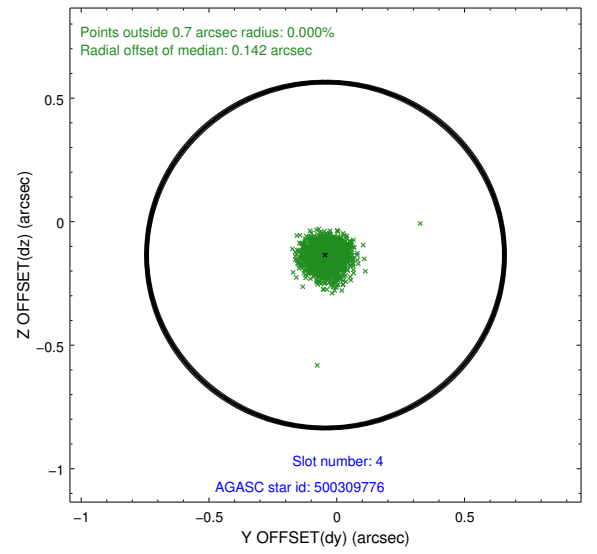
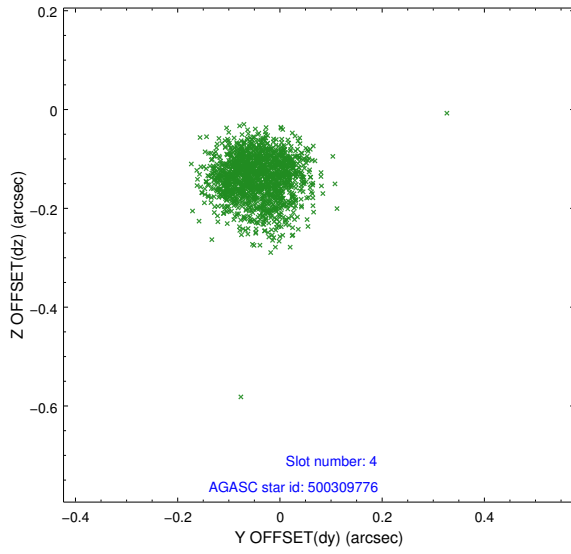
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-4	6.96	777	0.166	0.001	0.007	0.011	0.000000	0.000000	2142.49	167.94
1	FID	ACIS-S-5	7.00	777	-0.182	0.003	0.006	0.010	0.000000	0.000000	-1821.49	161.63
2	FID	ACIS-S-6	7.11	777	-0.013	0.010	0.007	0.014	0.000000	0.000000	388.39	805.37
3	GUIDE	500307720	9.21	1552	-0.002	0.113	0.091	0.150	149.835368	56.109010	1054.85	-751.92
4	GUIDE	500309776	7.96	1555	-0.044	-0.135	0.069	0.111	150.409238	55.585087	-44.48	1172.38
5	GUIDE	500310384	9.59	1552	-0.045	-0.000	0.114	0.172	149.663942	55.314138	1504.78	2096.04
6	GUIDE	500437816	8.68	1555	-0.033	0.070	0.077	0.118	151.181905	56.134575	-1647.67	-775.31
7	GUIDE	500443344	9.44	1551	0.118	-0.046	0.120	0.200	151.235048	55.451326	-1720.94	1683.71

2.4 Star Slots

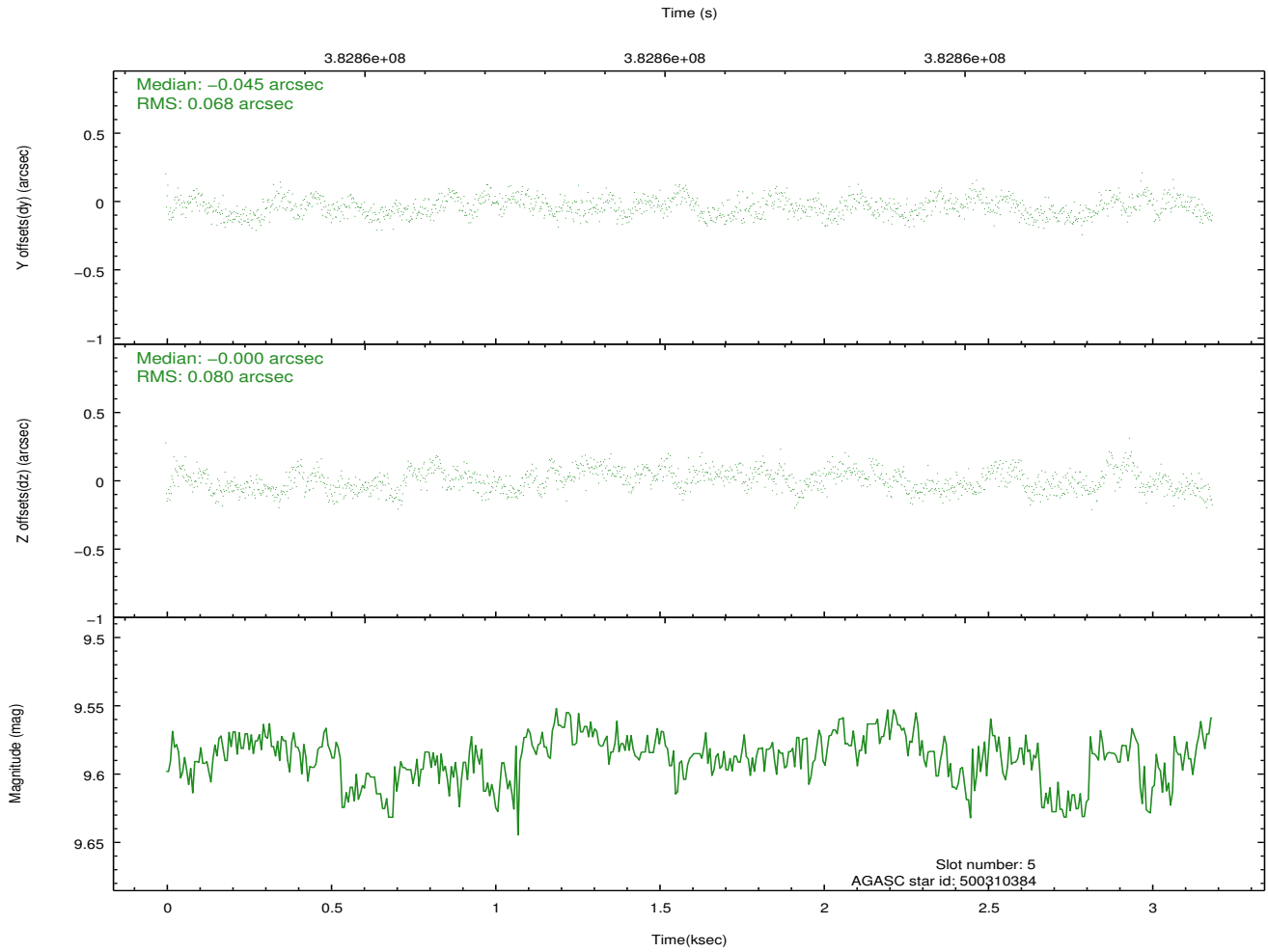
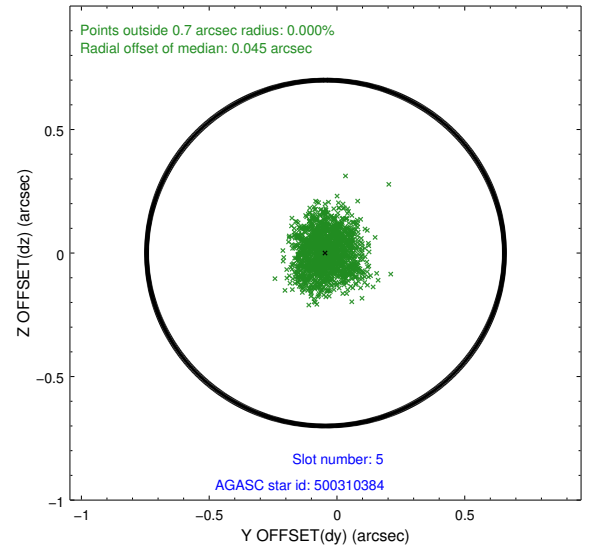
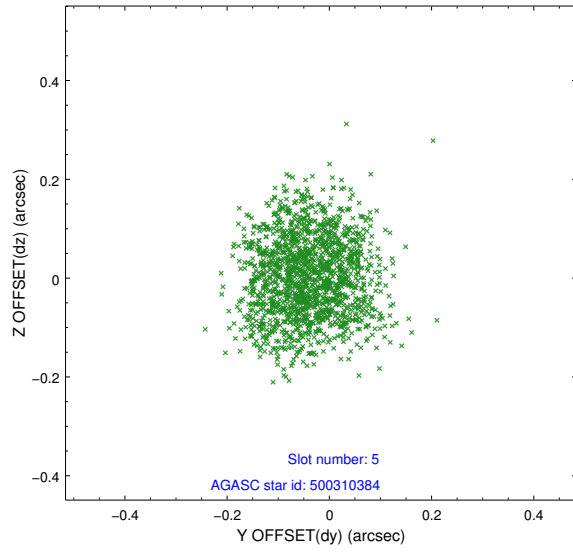
2.4.1 Slot 3



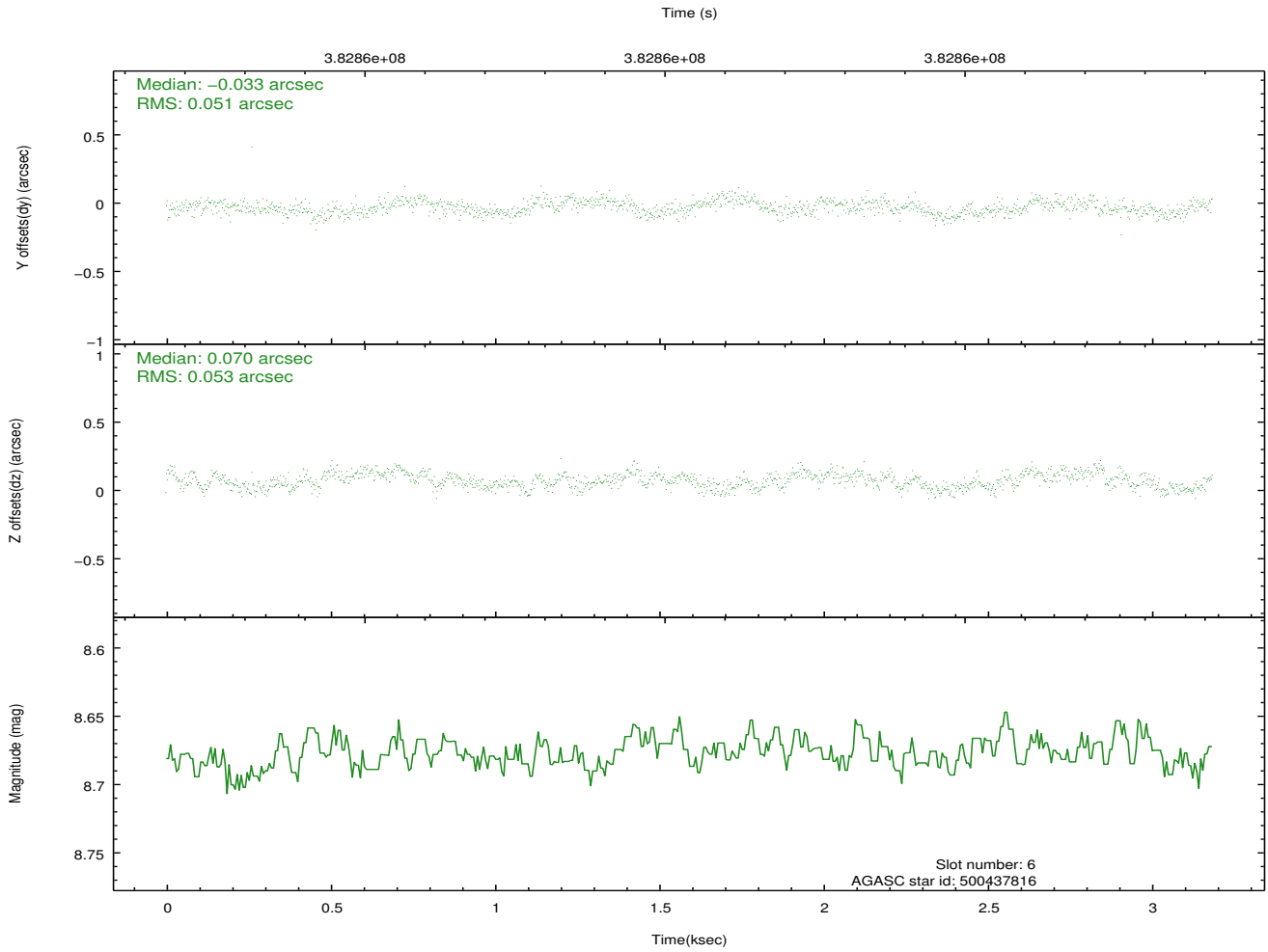
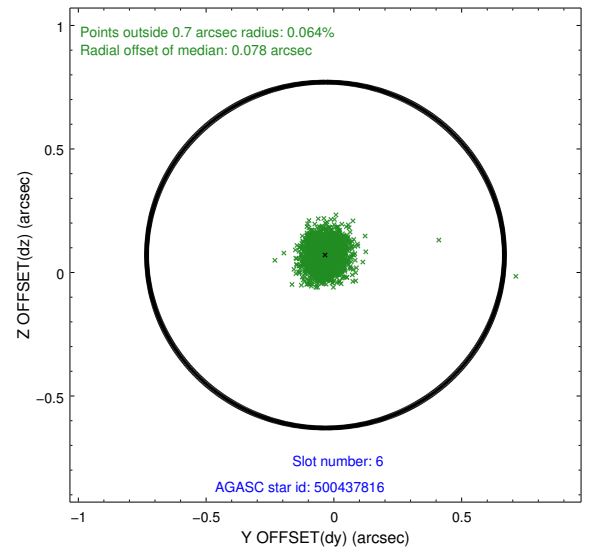
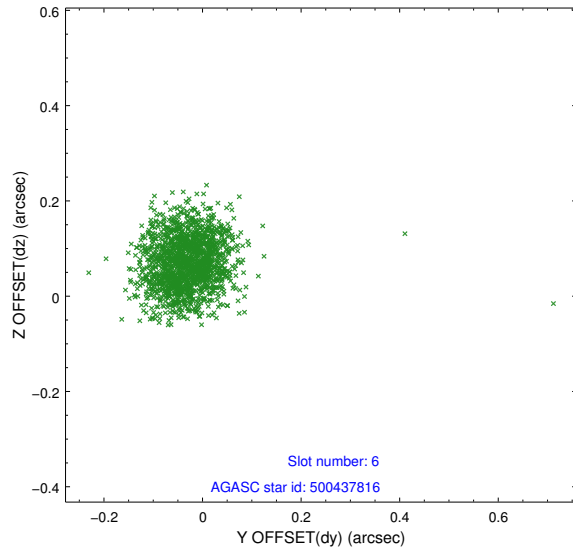
2.4.2 Slot 4



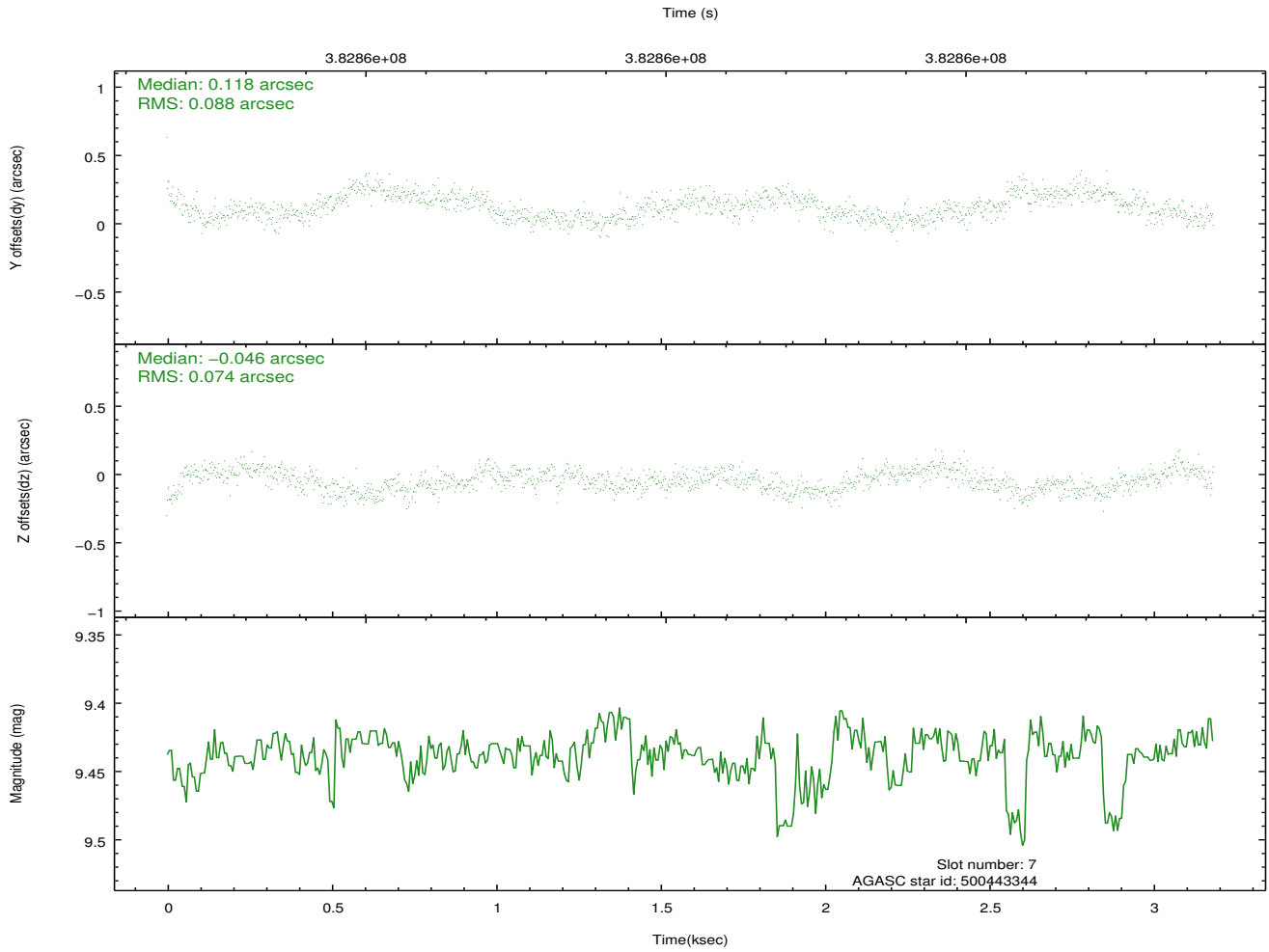
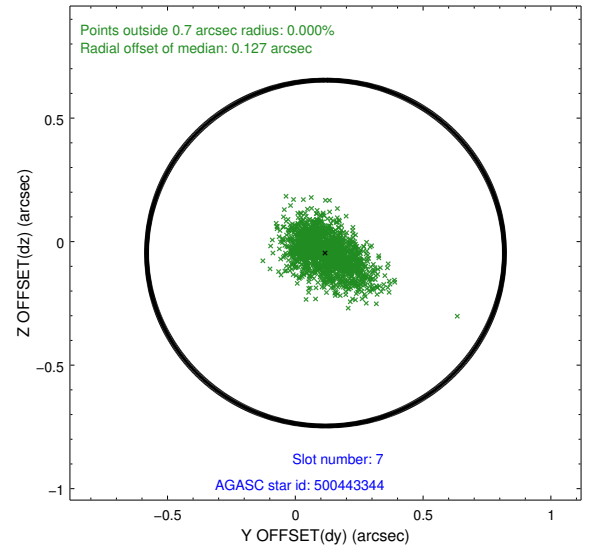
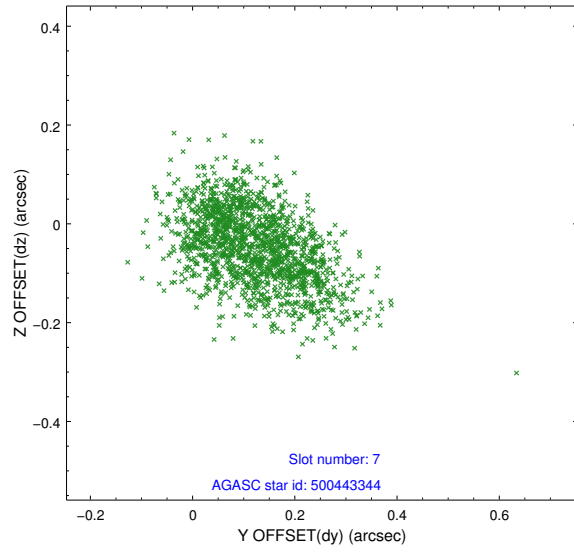
2.4.3 Slot 5



2.4.4 Slot 6

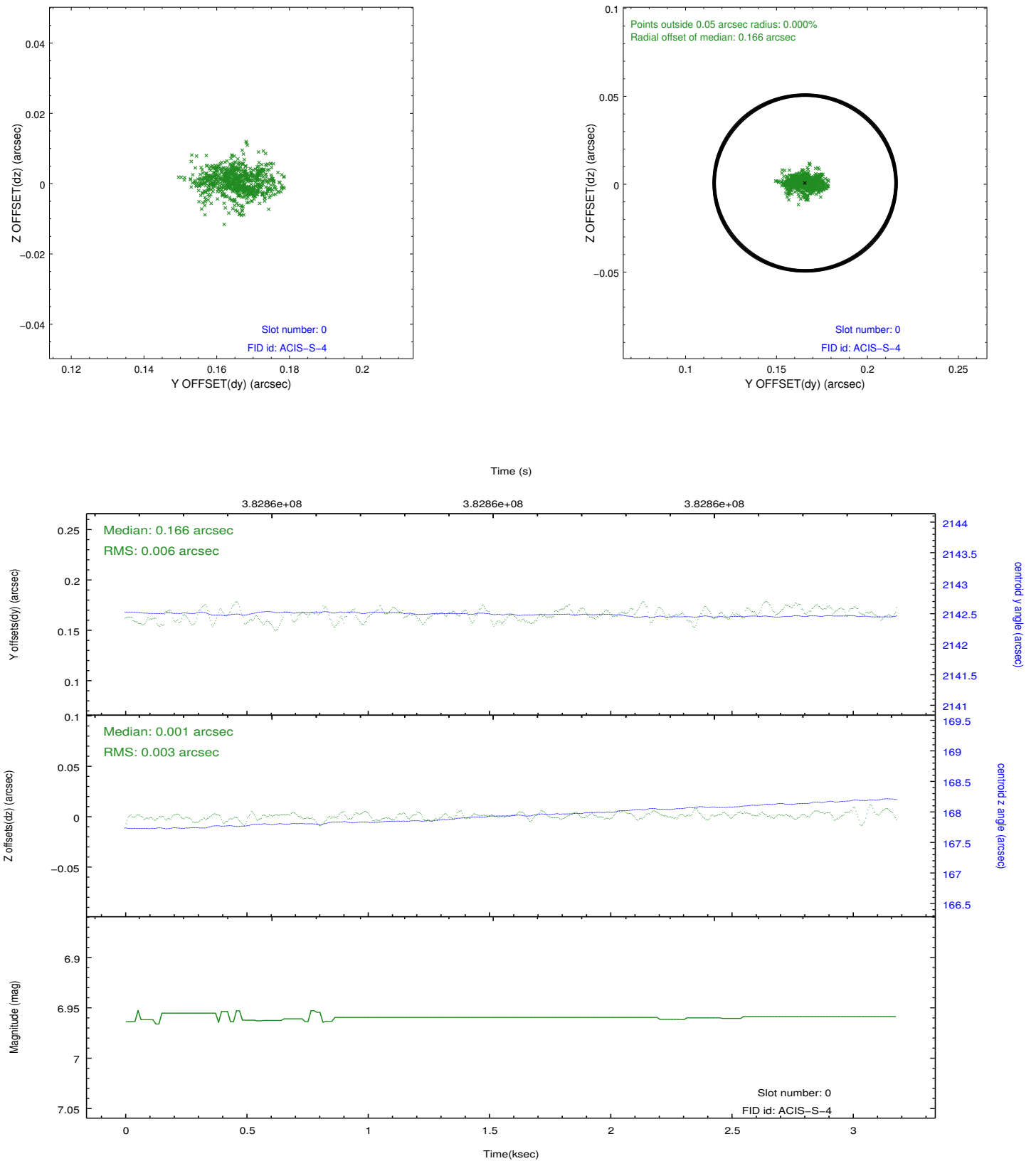


2.4.5 Slot 7

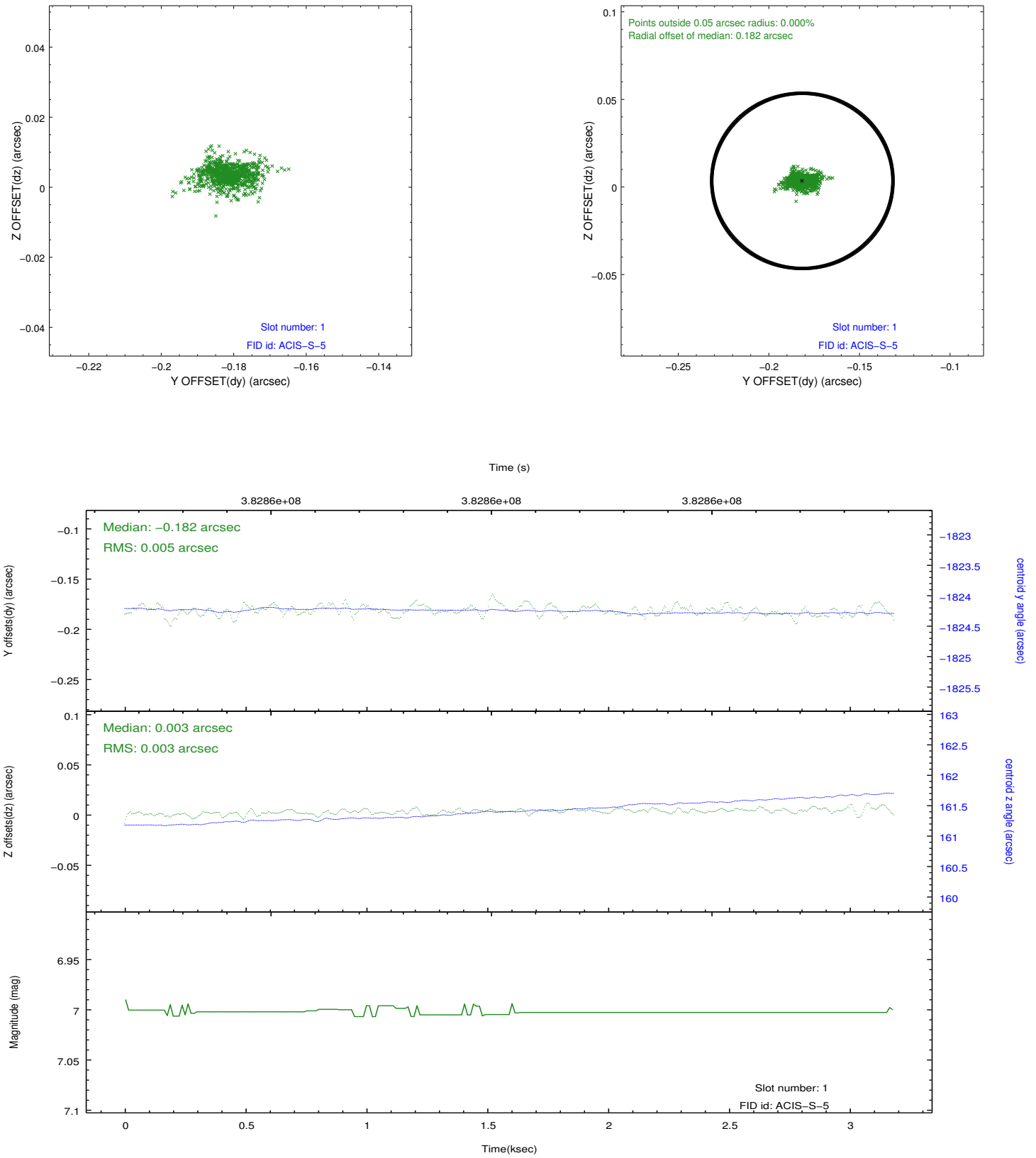


2.5 FID Slots

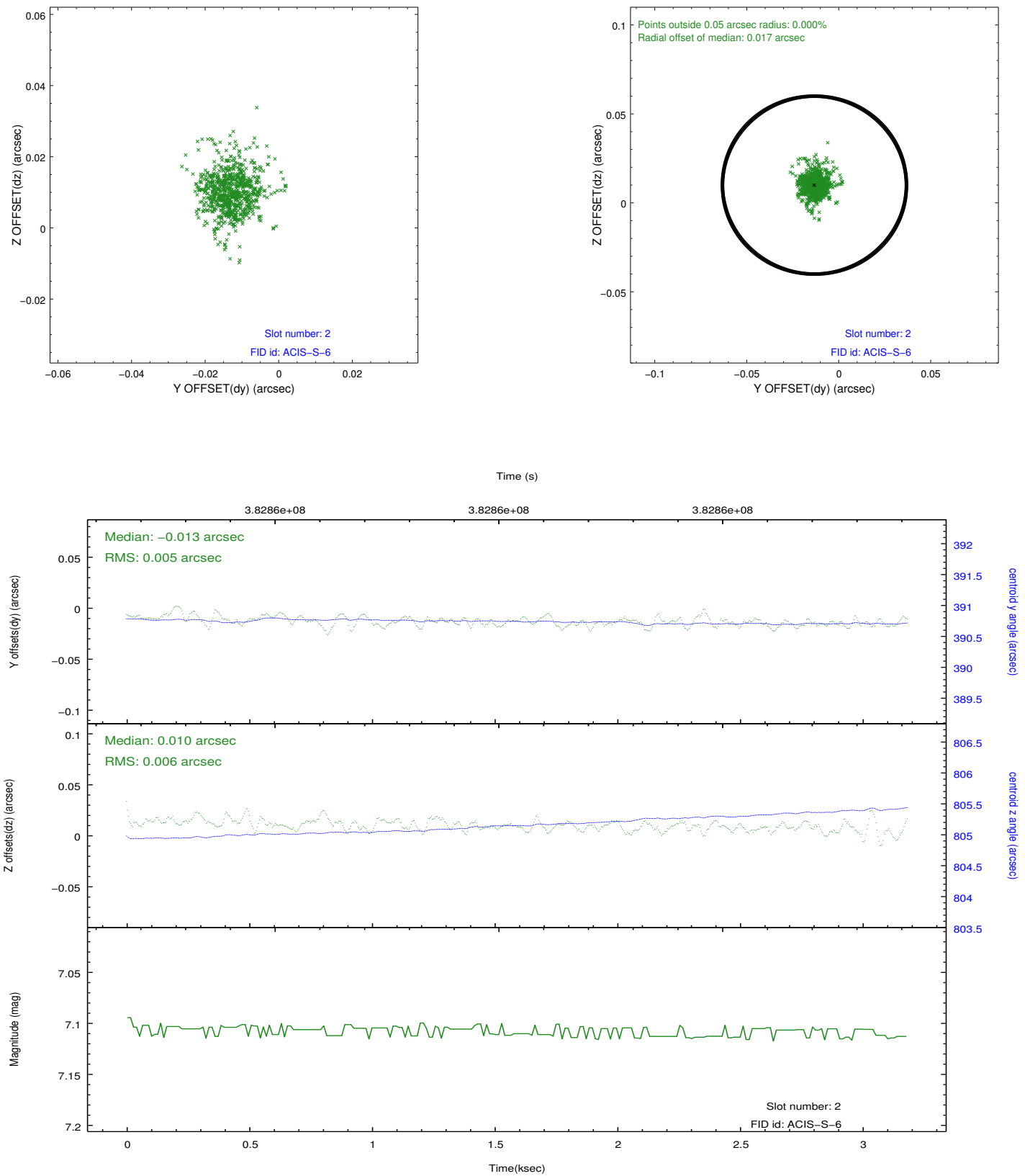
2.5.1 Slot 0



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)	2012.06.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.18239997

A.2 Comments

Monitor constraint met, follows obs12077 by 17 days.