

V&V Reference Report

L2 ASCDS Version : 10.2.1

Observation 16067 - L2 Version 2
Chandra X-Ray Center

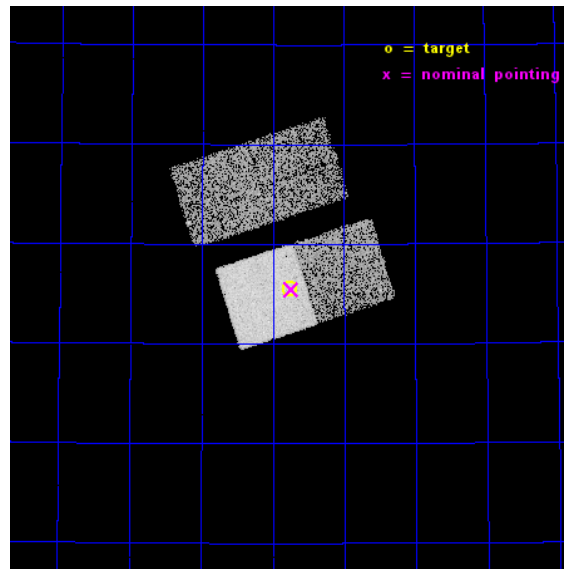
L2 Processing Date : Dec 11 2014

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1 Front

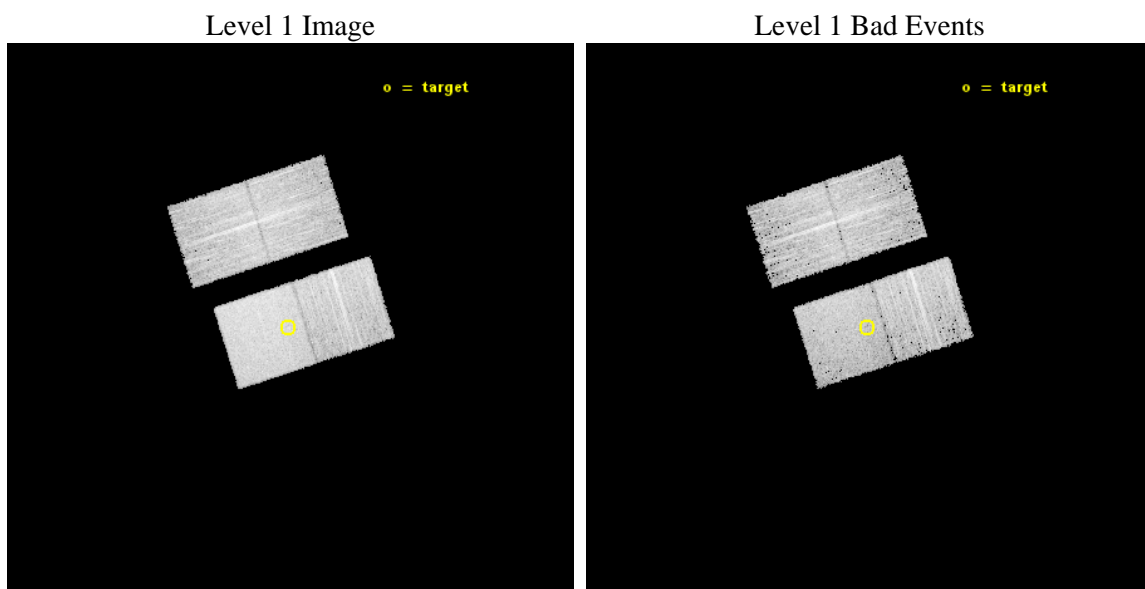
seq_num	702961	Sequence number
obs_id	16067	Observation id
title	Continuing the Chandra 3CR Snapshot Survey: 23 Radio Sources with 0.5	Proposal title
observer	Dr. Francesco Massaro	Principal investigator
object	3C323	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	235.439583	Observer's specified target RA [deg]
dec_targ	60.259722	Observer's specified target Dec [deg]
ra_nom	235.43481686791	Nominal RA [deg]
dec_nom	60.257786720343	Nominal Dec [deg]
roll_nom	162.28860720654	Nominal Roll [deg]
revision	2	Processing version of data
ontime	12079.38397181	Sum of GTIs [s]
livetime	11921.557927506	Livetime [s]
ontime2	12076.119881451	Sum of GTIs [s]
ontime3	12079.301891804	Sum of GTIs [s]
ontime6	12079.342931807	Sum of GTIs [s]
ontime7	12079.38397181	Sum of GTIs [s]
l2events	50948	Number of level 2 events



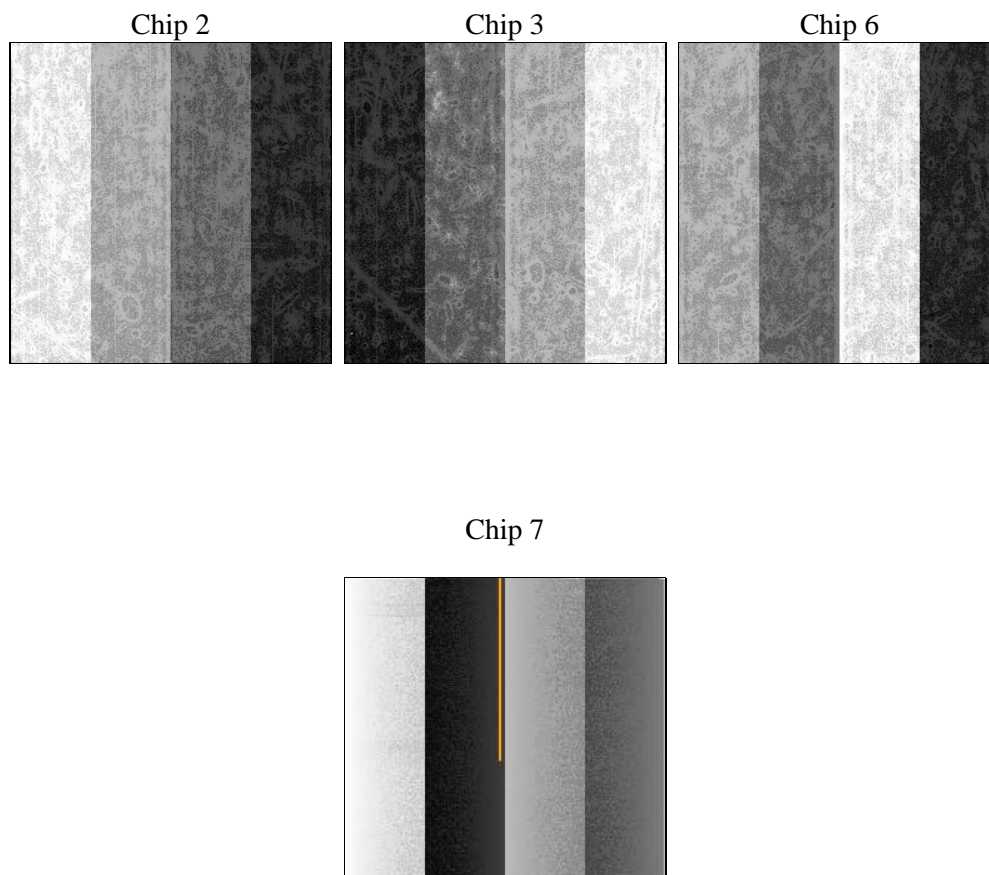
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	12000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	12079.38397181	Sum of GTIs [s]
caldsver	4.6.4	 	ontime2	12076.119881451	Sum of GTIs [s]
date	2014-12-11T09:20:46	Date and time of file creation	ontime3	12079.301891804	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	12079.342931807	Sum of GTIs [s]
			ontime7	12079.38397181	Sum of GTIs [s]
			l1events	246812	Number of level 1 events

2.1.4 Events

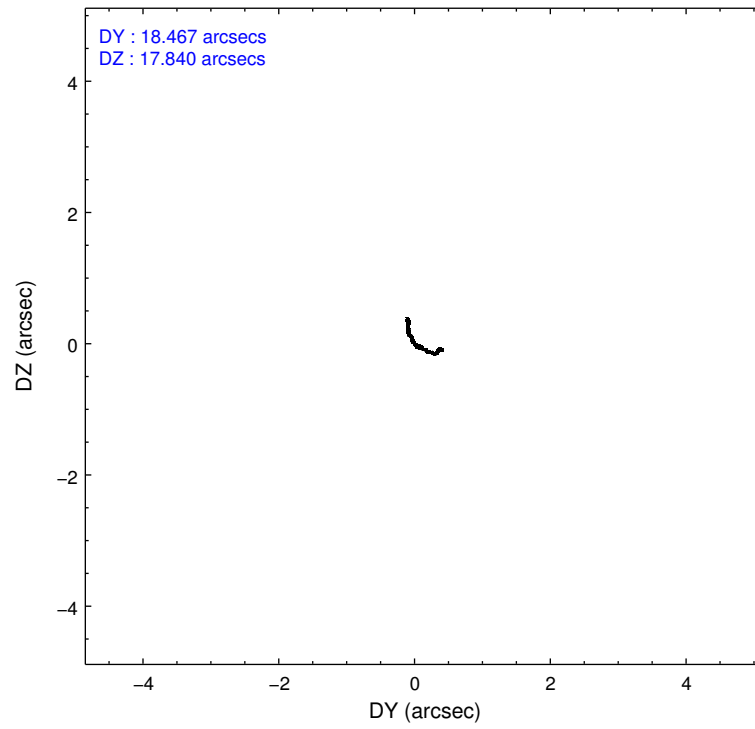
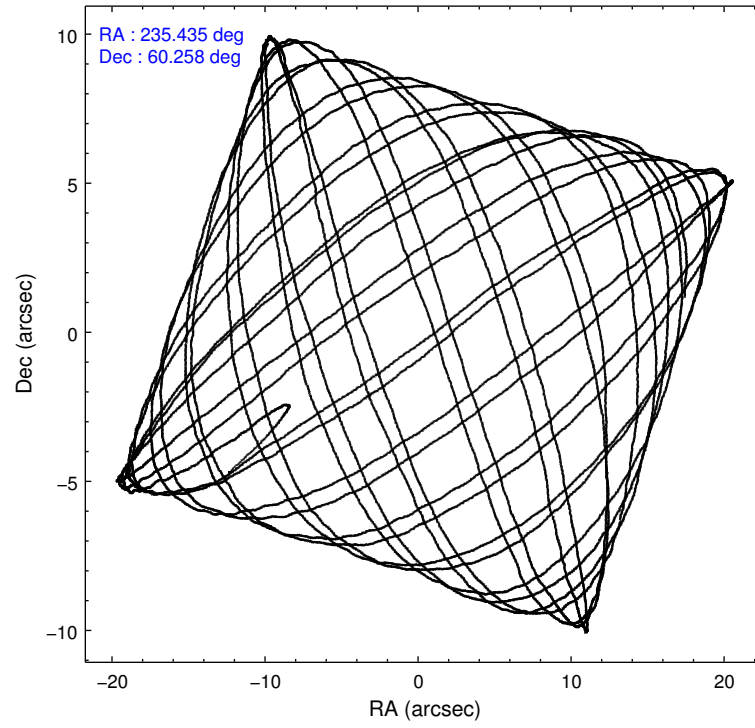
	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	54553	55239	58869	78151
rejected events	48197	48978	51765	43530
rejected %	88%	88%	87%	55%

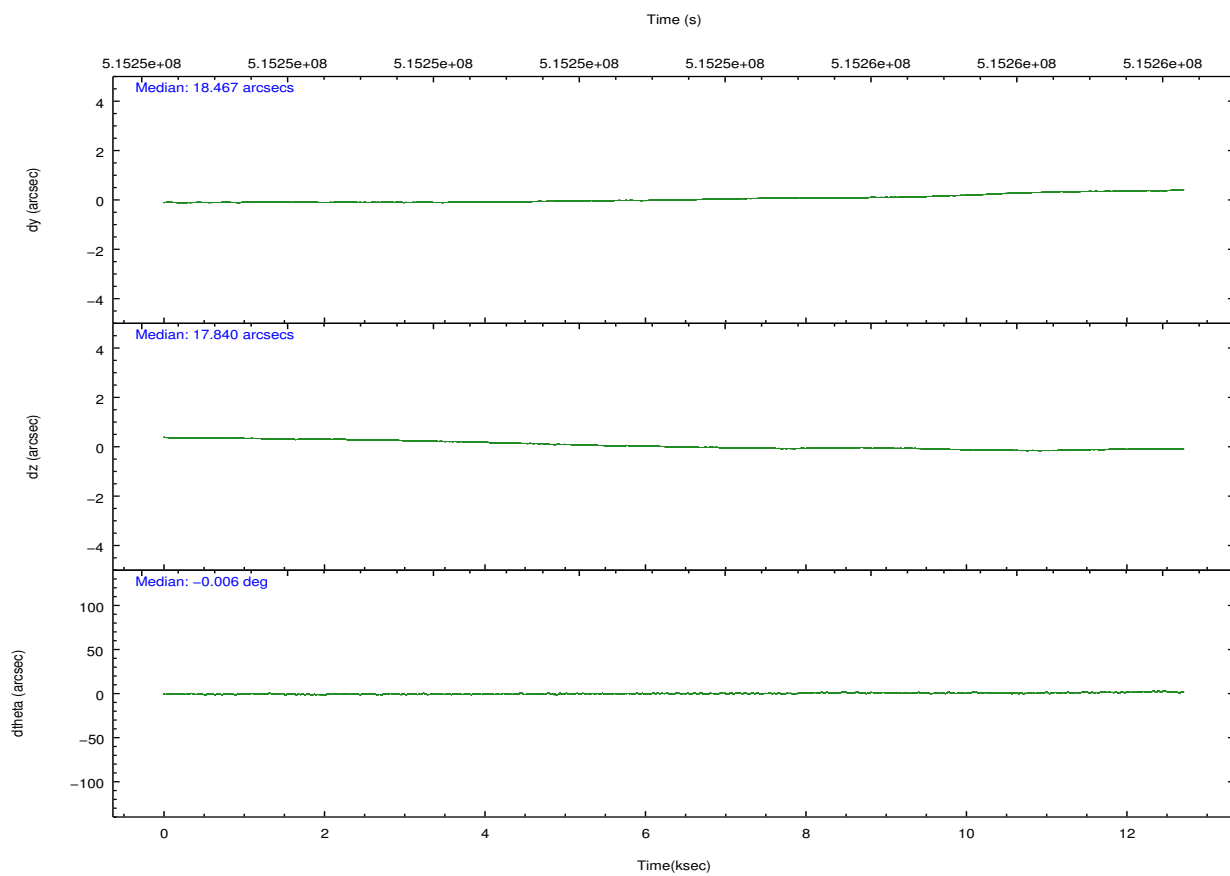
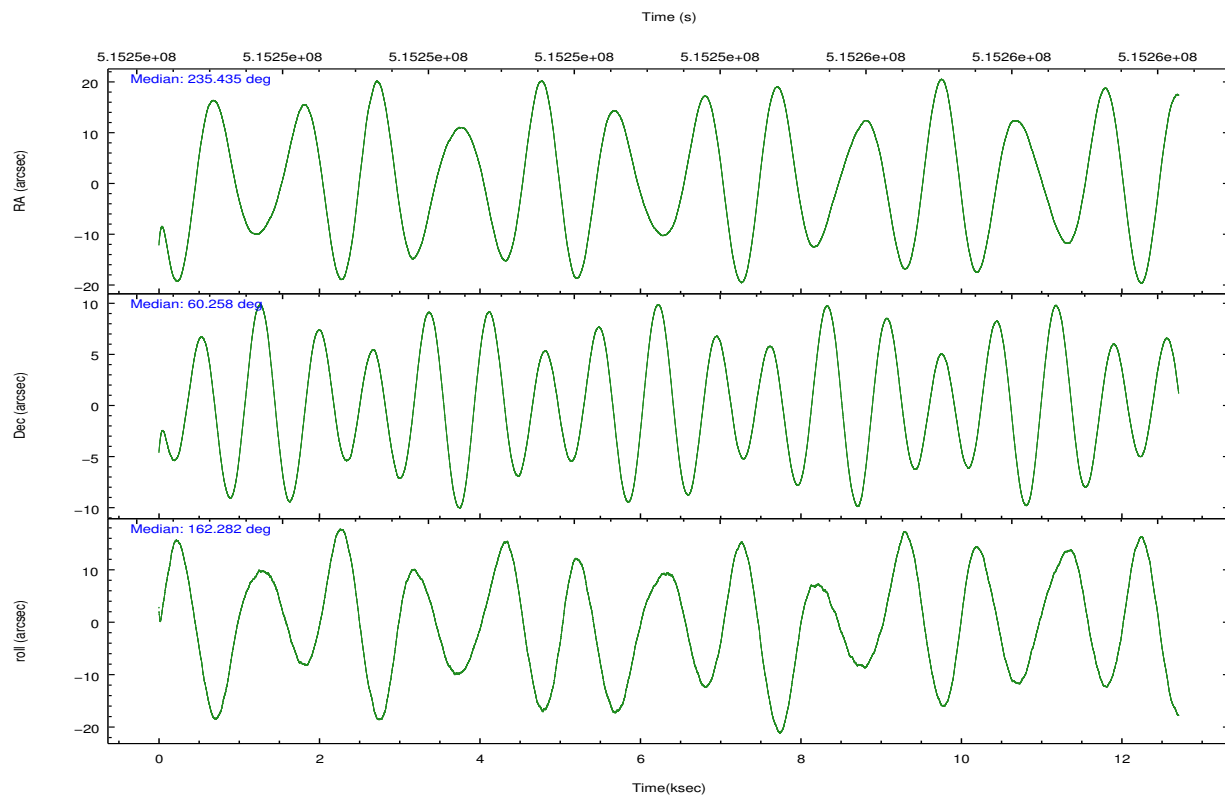
	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	2184	2237	2368	3145
	4%	4%	4%	4%
grade 1 events	35	25	31	112
	0%	0%	0%	0%
grade 2 events	1525	1391	1597	7178
	2%	2%	2%	9%
grade 3 events	657	676	772	2929
	1%	1%	1%	3%
grade 4 events	727	650	738	2895
	1%	1%	1%	3%
grade 5 events	2422	3022	3173	8033
	4%	5%	5%	10%
grade 6 events	1263	1309	1629	18481
	2%	2%	2%	23%
grade 7 events	45740	45929	48561	35378
	83%	83%	82%	45%

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	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	235.488587	235.4348168679063	CCD I2 on	O1	Y
[deg] Pointing Dec	60.263952	60.25778672034313	CCD I3 on	O2	Y
[deg] Pointing Roll	162.085293	162.2886072065376	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	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	N	N
[s] Observation start time (MET)	515247652.184000	515245978.03759	CCD S5 on	N	N
Observation start date	2014-04-30T12:19:45	2014-04-30T11:52:58	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	515259652.184000	515260243.98837	On-chip summing requested	N	N
Observation end date	2014-04-30T15:39:45	2014-04-30T15:50:43	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



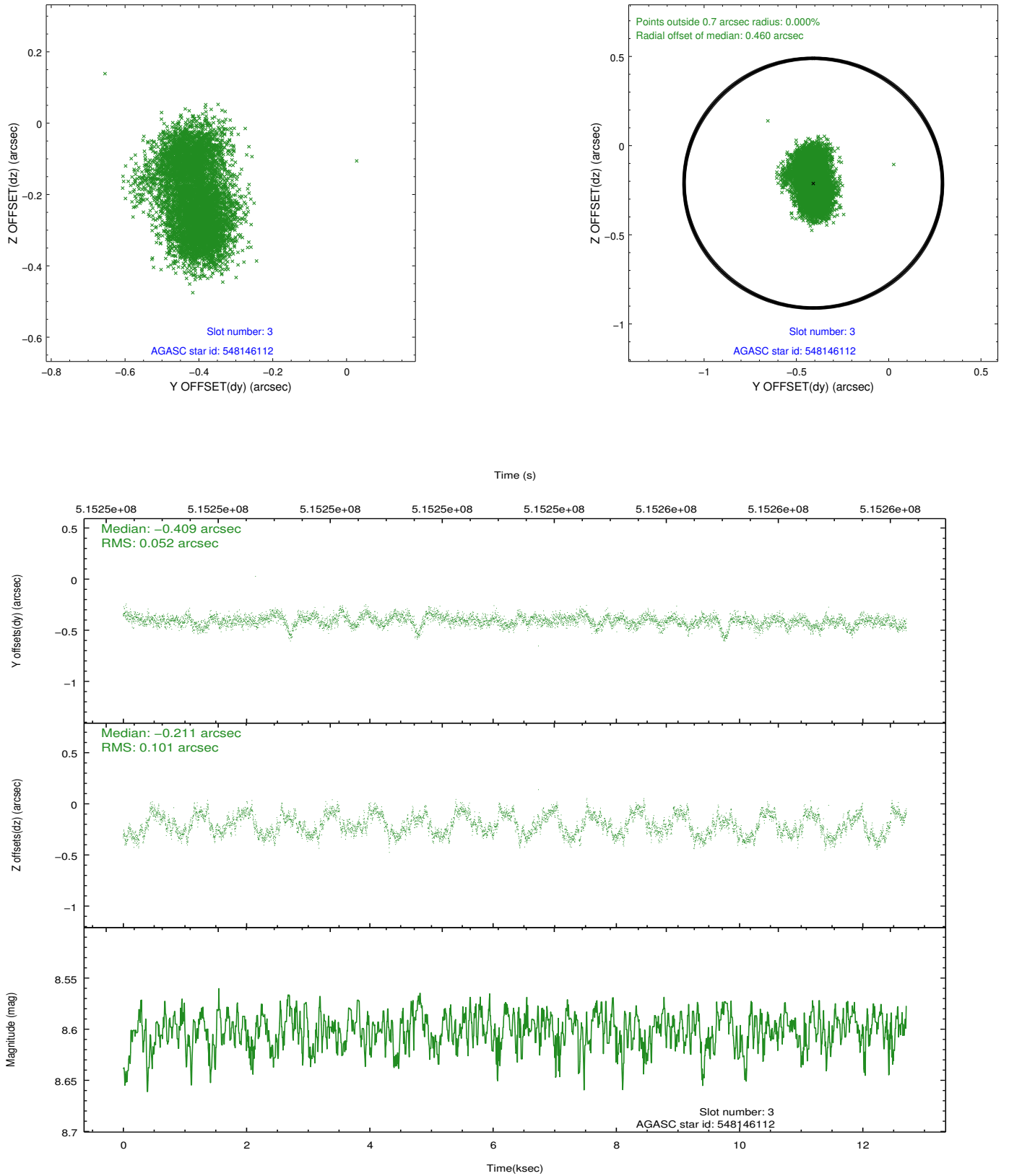


Slot Statistics

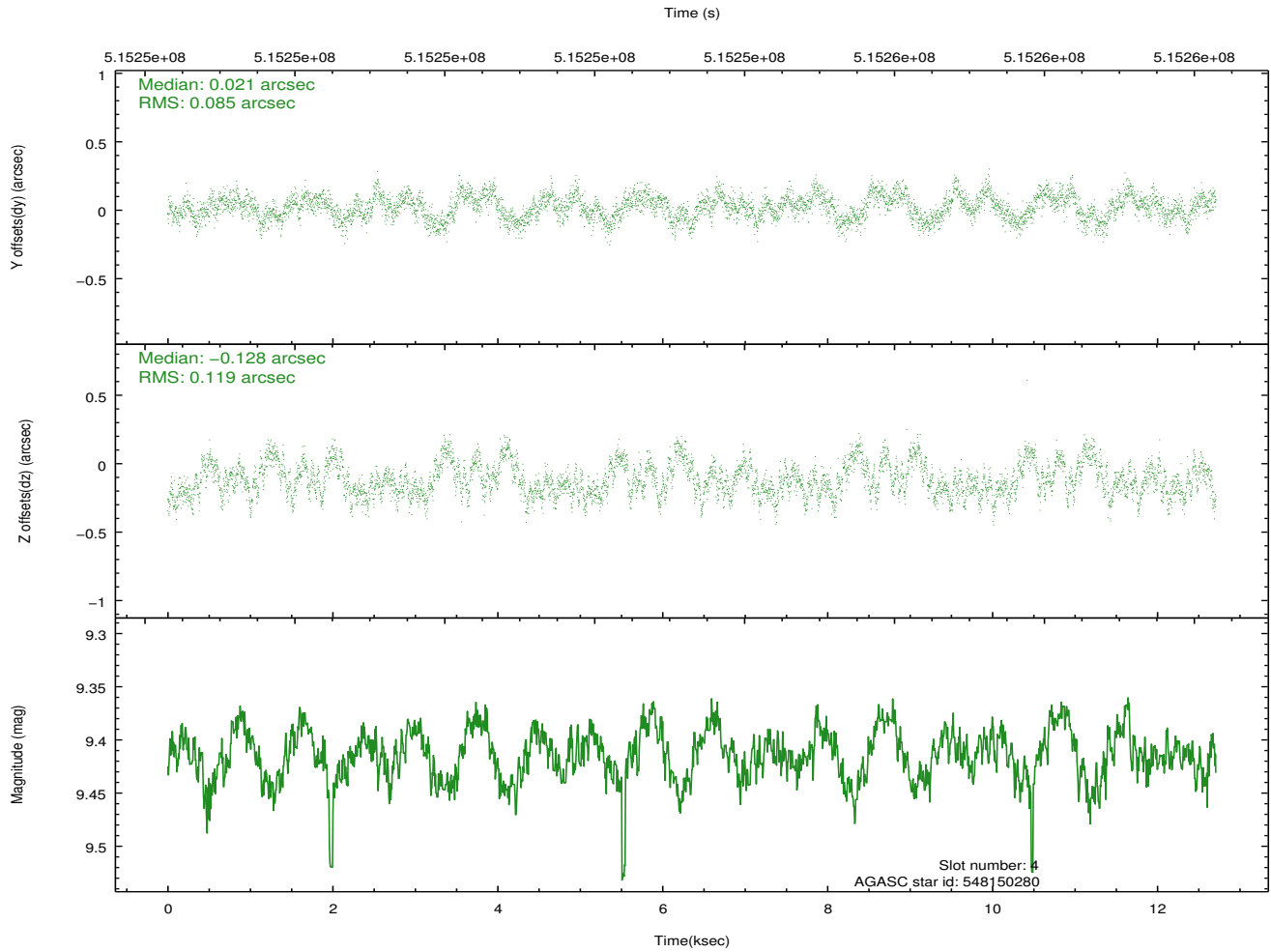
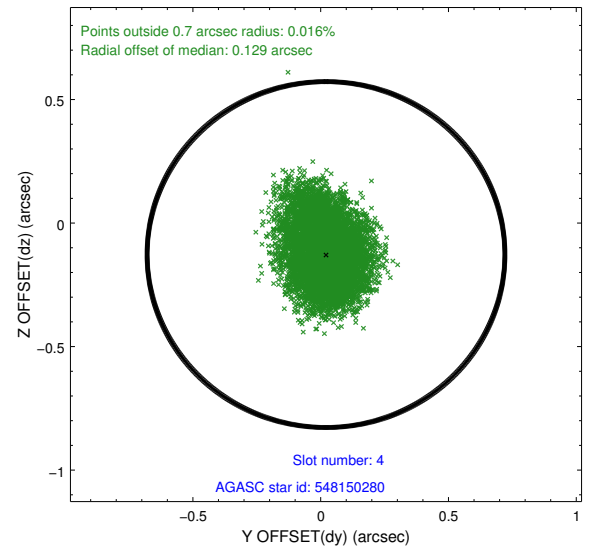
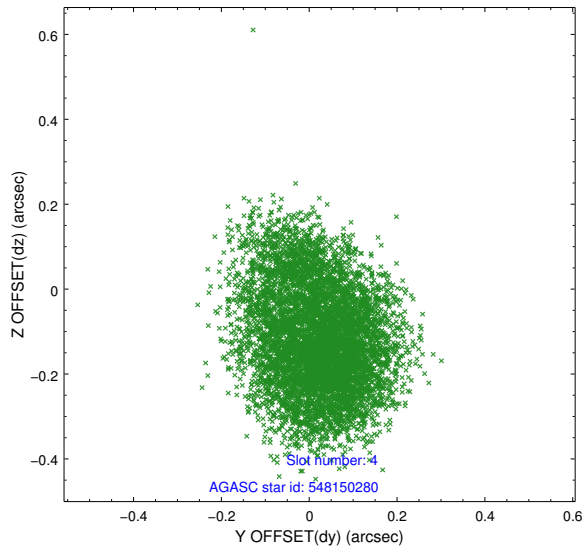
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	6.96	3100	0.104	-0.031	0.011	0.018	0.000000	0.000000	924.58	-1735.01
1	FID		ACIS-S-5	7.00	3100	-0.185	0.071	0.008	0.014	0.000000	0.000000	-1824.52	162.21
2	FID		ACIS-S-6	7.11	3100	0.060	-0.027	0.009	0.014	0.000000	0.000000	389.64	806.54
3	GUIDE	used	548146112	8.60	6199	-0.409	-0.211	0.126	0.186	234.692236	60.011012	1085.80	1299.20
4	GUIDE	used	548150280	9.41	6197	0.021	-0.128	0.159	0.246	235.423915	60.733677	629.59	-1573.81
5	GUIDE	used	548153520	9.44	6197	0.379	0.326	0.118	0.185	236.516910	60.304857	-1694.32	-717.67
6	GUIDE	used	548153704	9.34	6196	0.082	-0.054	0.167	0.248	236.245335	60.049132	-1529.54	310.00
7	GUIDE	used	548154432	9.63	6194	-0.040	0.073	0.272	0.404	235.474095	60.607922	405.45	-1169.96

2.4 Star Slots

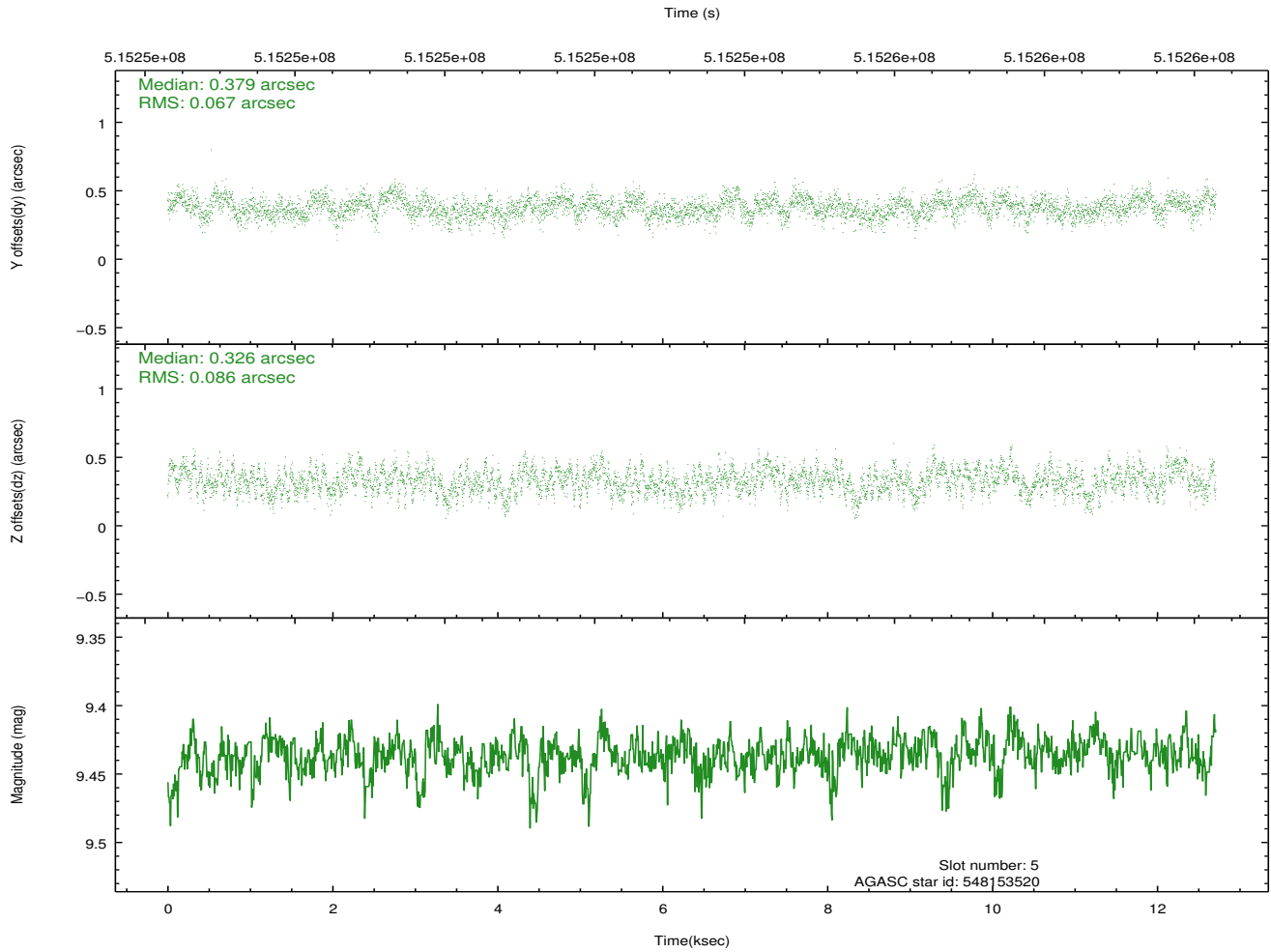
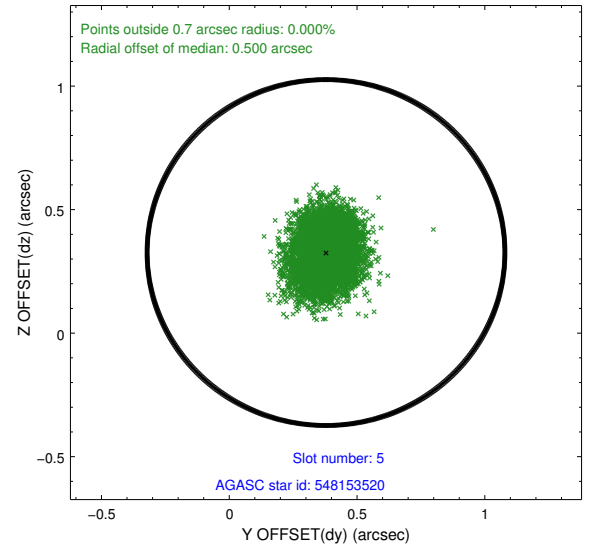
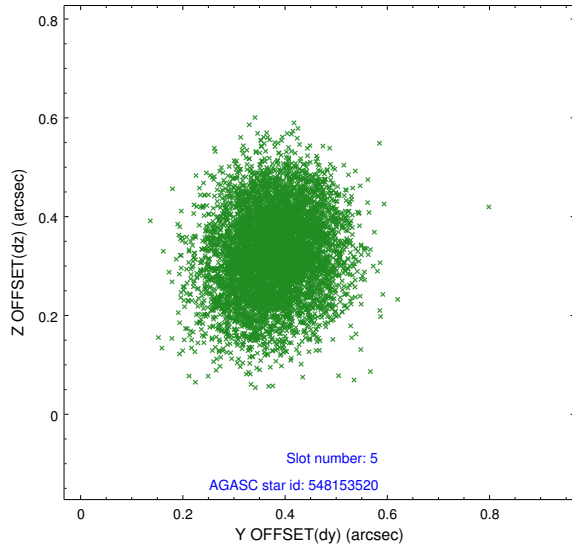
2.4.1 Slot 3



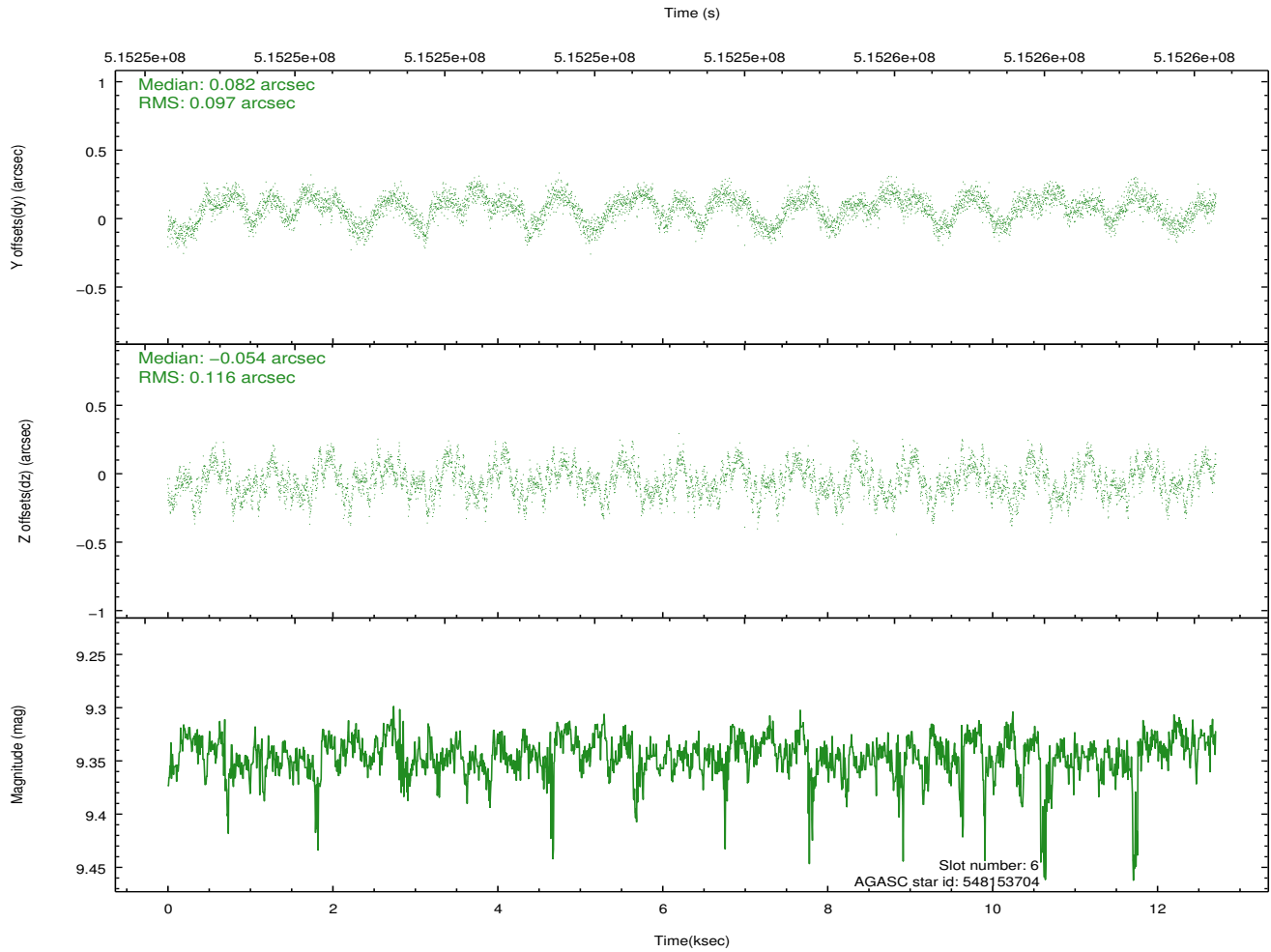
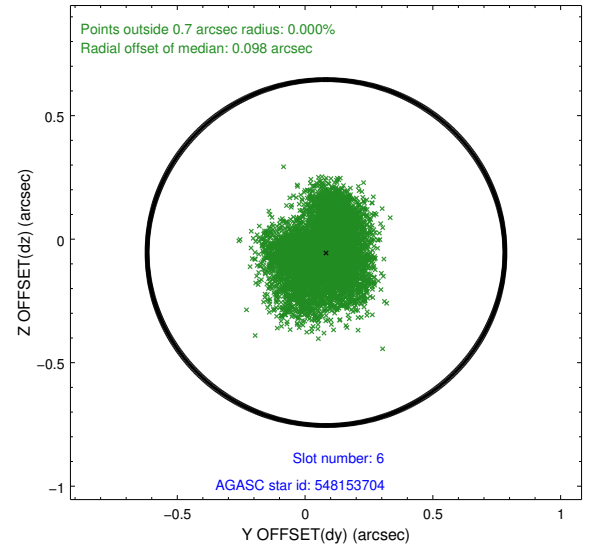
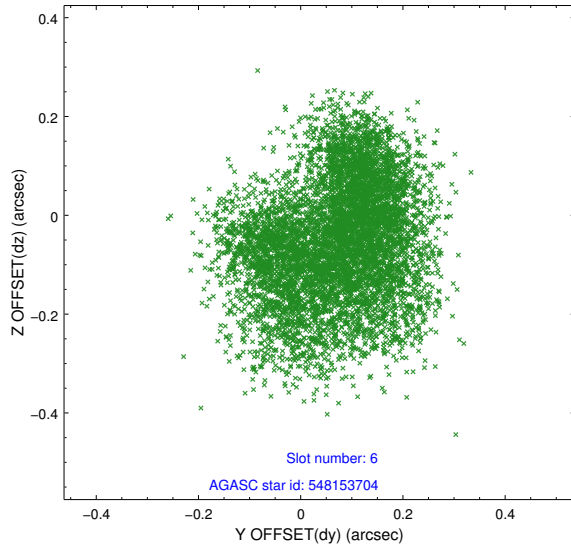
2.4.2 Slot 4



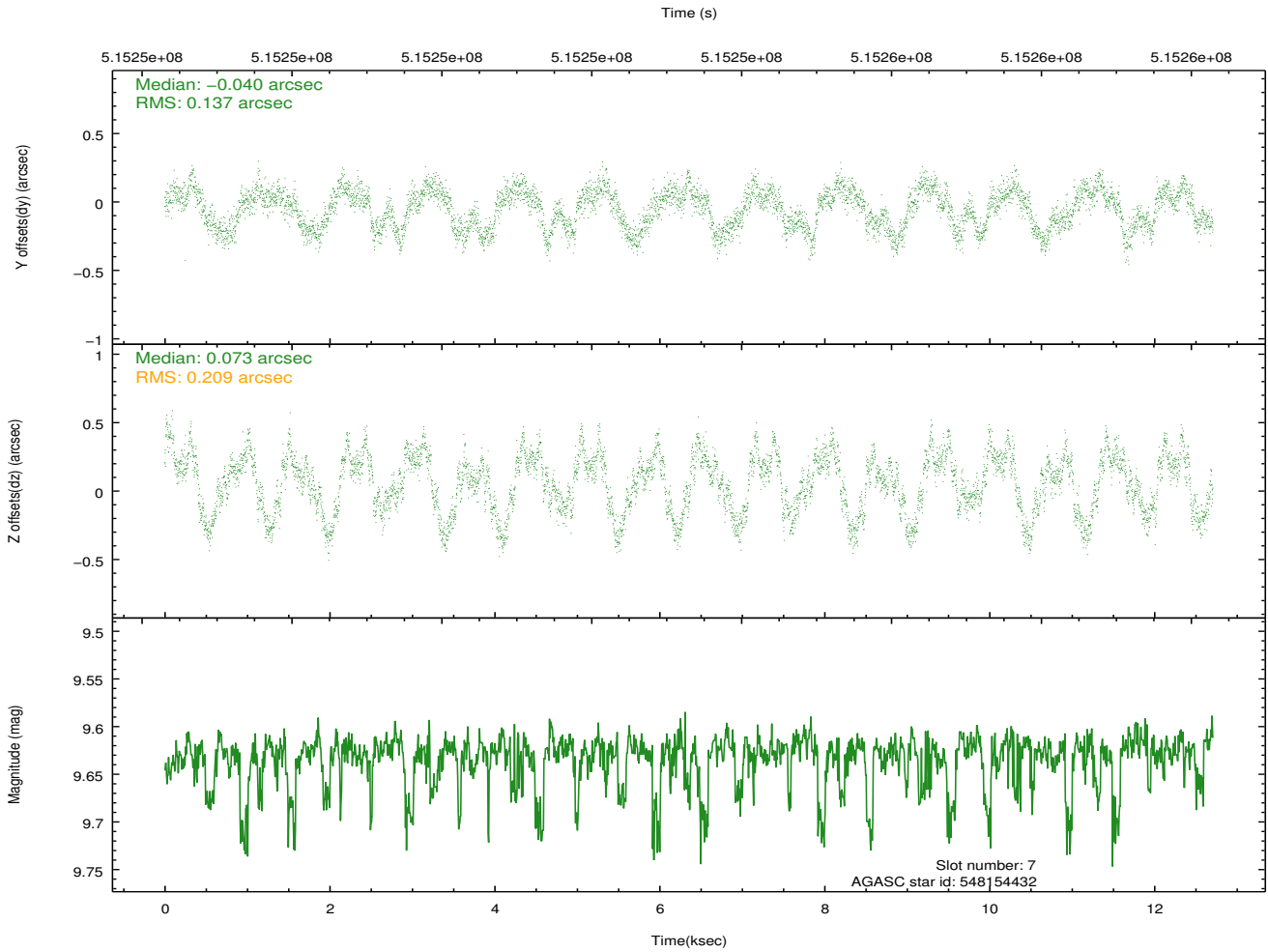
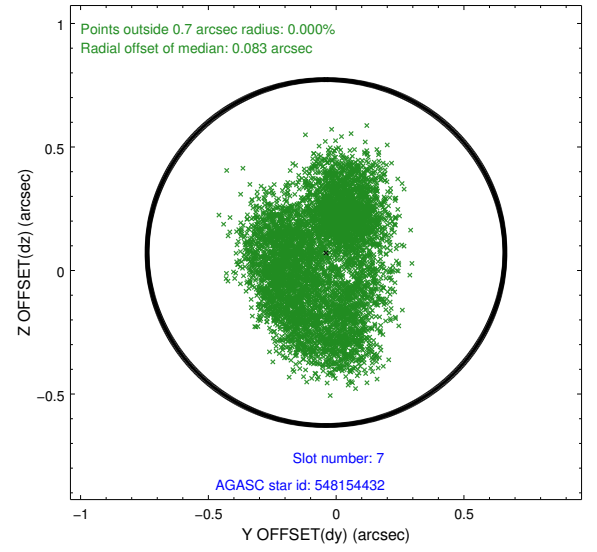
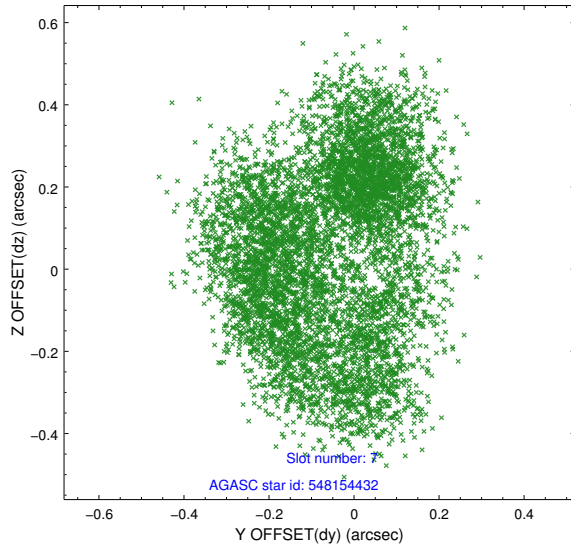
2.4.3 Slot 5



2.4.4 Slot 6

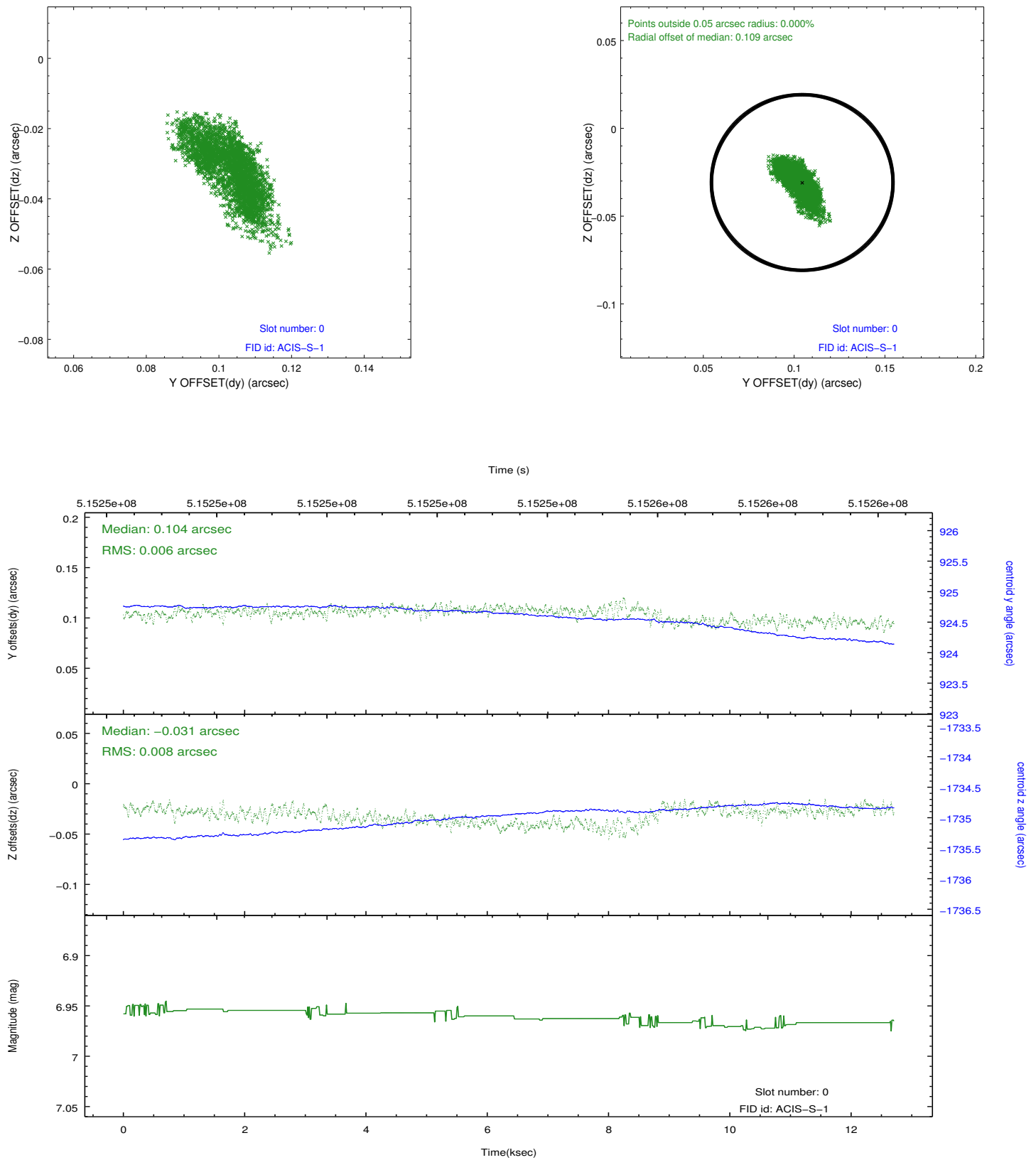


2.4.5 Slot 7

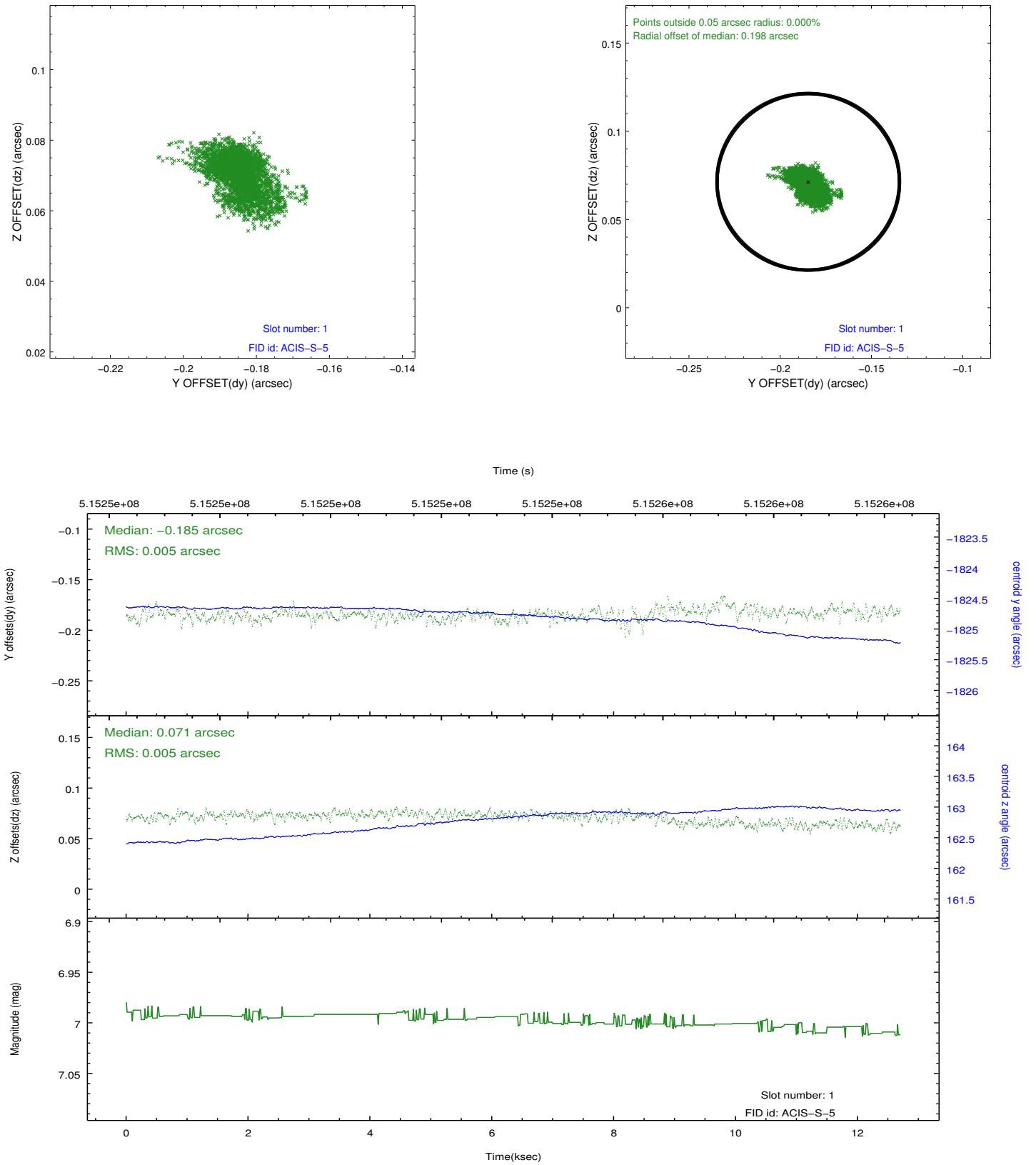


2.5 FID Slots

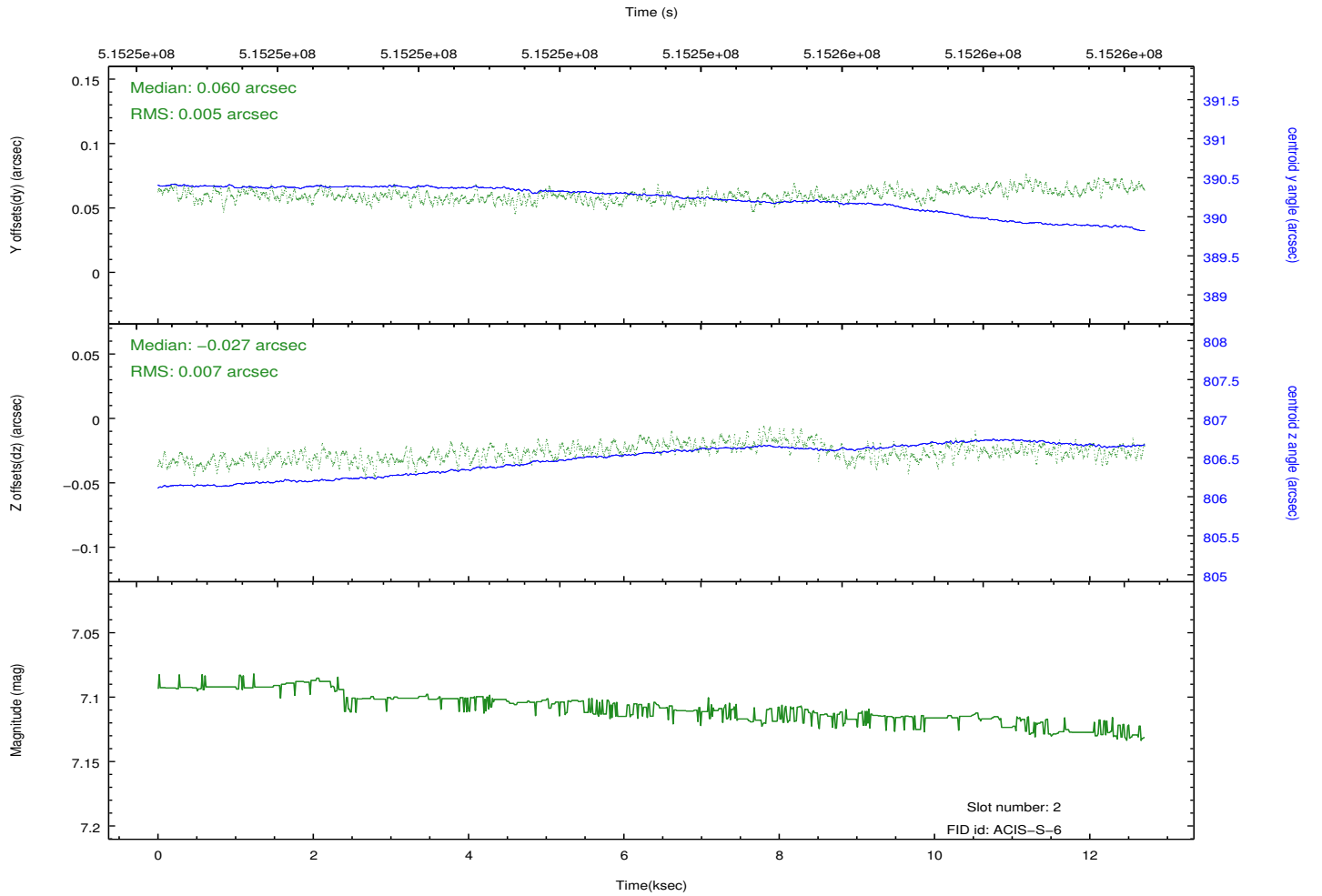
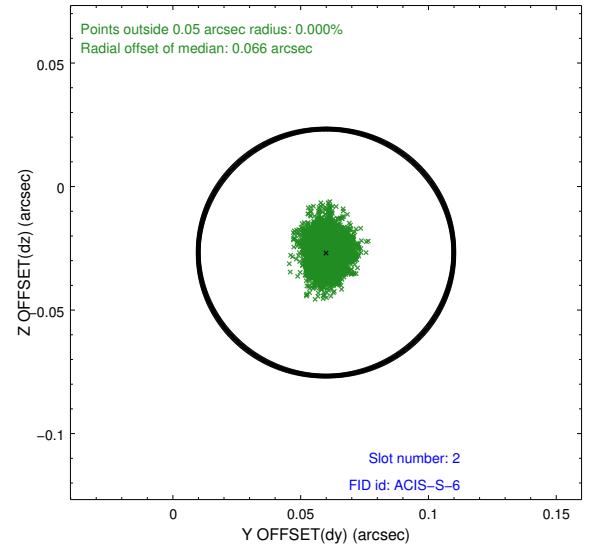
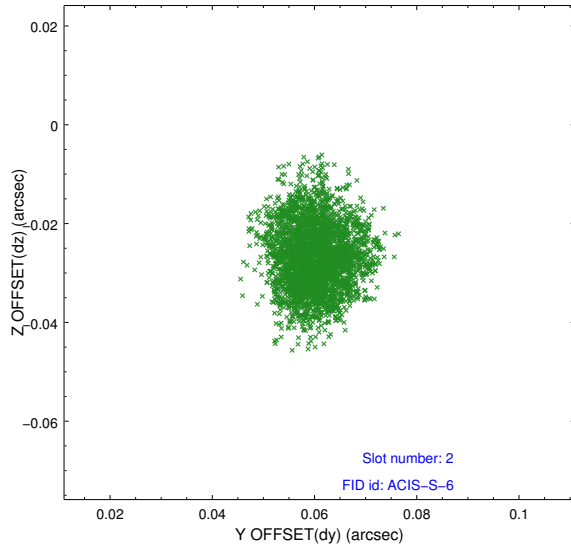
2.5.1 Slot 0



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)	2014.12.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	12.07938397181

A.2 Comments

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.