

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 10437 - L2 Version 2
Chandra X-Ray Center

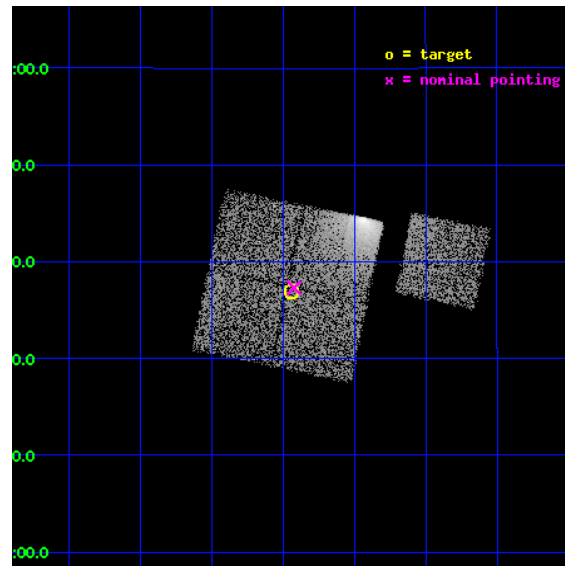
L2 Processing Date : Jun 3 2012

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1 Front

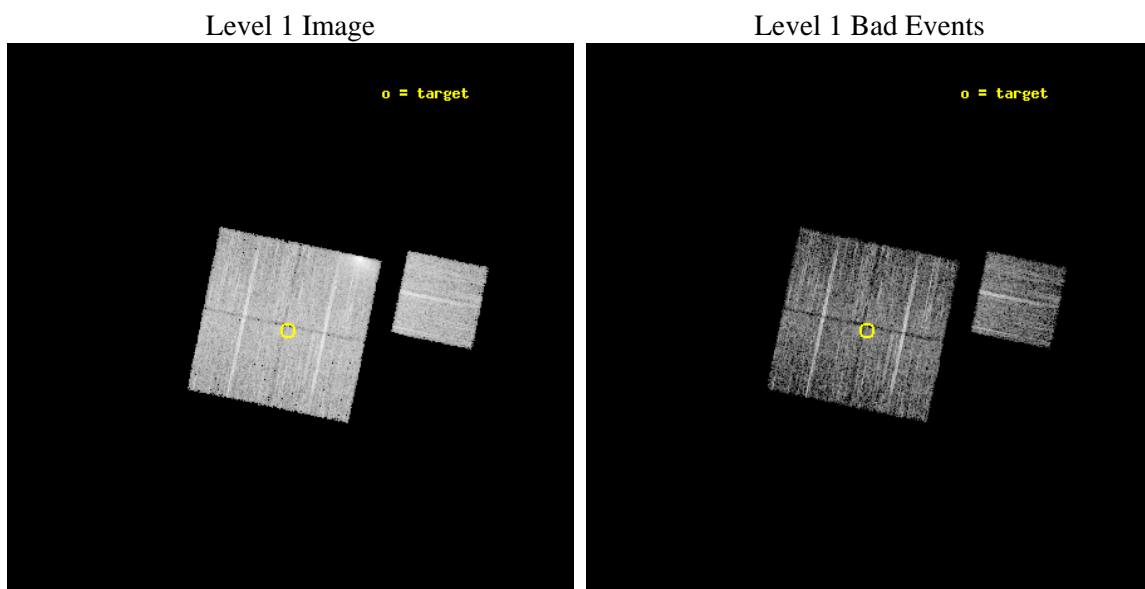
seq_num	800798	Sequence number
obs_id	10437	Observation id
title	A Chandra baseline for galaxy cluster evolution studies	Proposal t
observer	Dr Ben Maughan	Principal investigator
object	A2029	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	227.859842	Observer's specified target RA [deg]
dec_targ	5.614559	Observer's specified target Dec [deg]
ra_nom	227.85594021838	Nominal RA [deg]
dec_nom	5.6217067855643	Nominal Dec [deg]
roll_nom	101.70907837838	Nominal Roll [deg]
revision	2	Processing version of data
ontime	4774.0000367165	Sum of GTIs [s]
livetime	4711.6242116691	Livetime [s]
ontime0	4774.0000367165	Sum of GTIs [s]
ontime1	4774.0000367165	Sum of GTIs [s]
ontime2	4774.0000367165	Sum of GTIs [s]
ontime3	4774.0000367165	Sum of GTIs [s]
ontime6	4774.0000367165	Sum of GTIs [s]
l2events	31852	Number of level 2 events



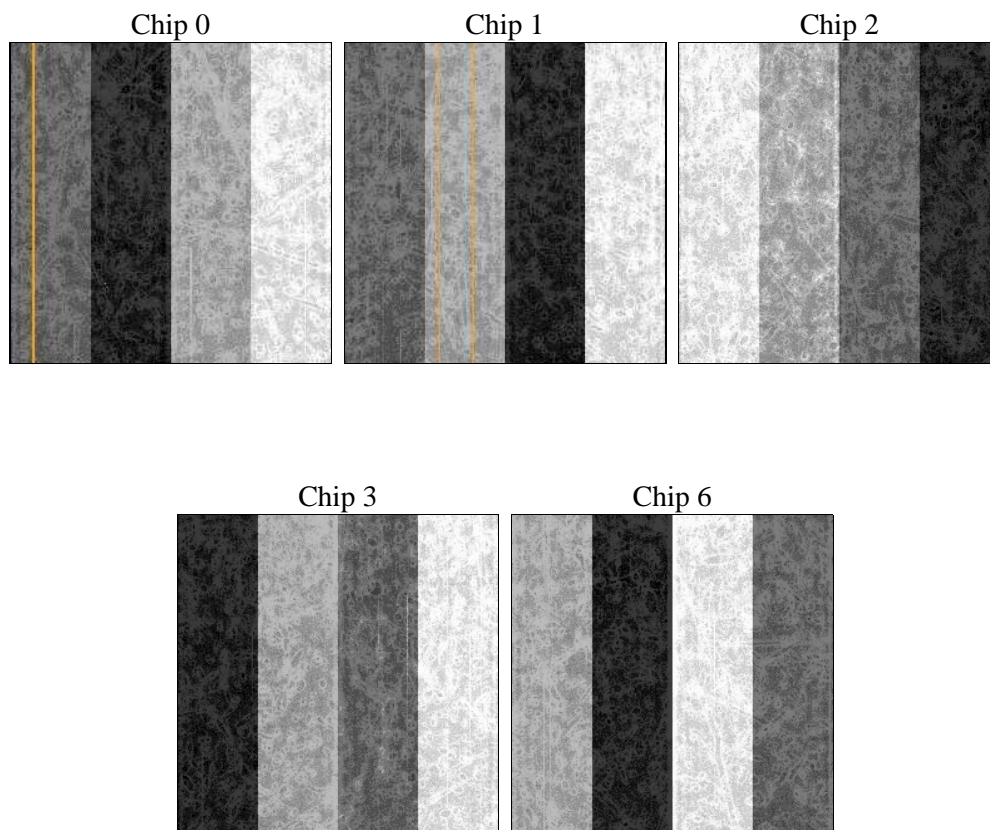
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	4774.0000367165	Sum of GTIs [s]
caldsver	4.4.9	 	ontime0	4774.0000367165	Sum of GTIs [s]
date	2012-06-03T08:01:44	Date and time of file creation	ontime1	4774.0000367165	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	4774.0000367165	Sum of GTIs [s]
			ontime3	4774.0000367165	Sum of GTIs [s]
			ontime6	4774.0000367165	Sum of GTIs [s]
			l1events	218119	Number of level 1 events

2.1.4 Events

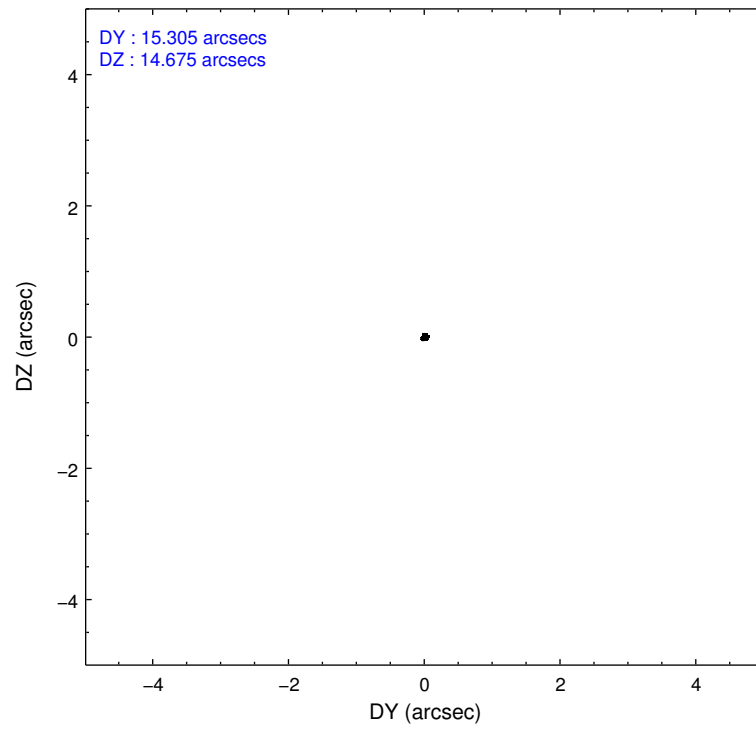
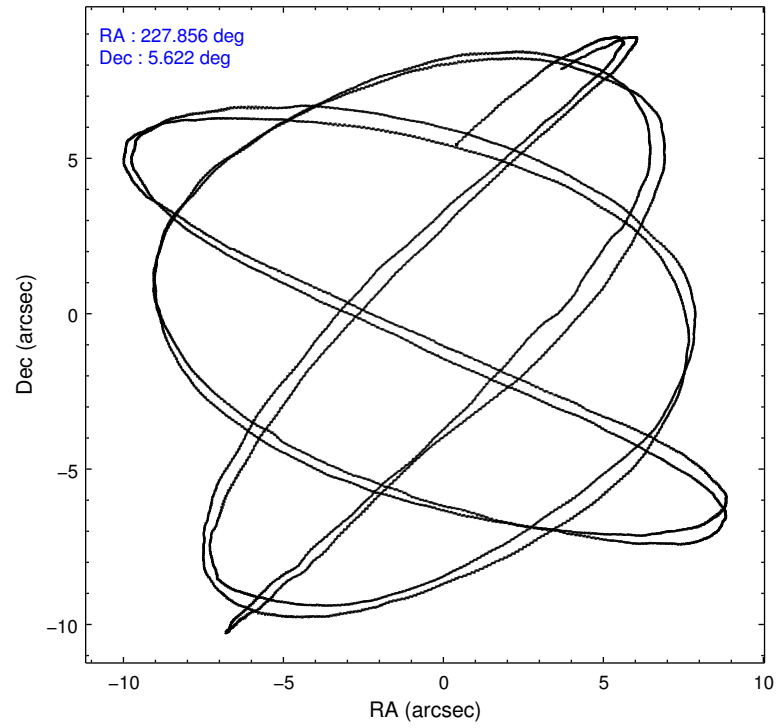
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	40461	38098	54941	42115	42504
rejected events	35472	33279	37672	37808	37433
rejected %	87%	87%	68%	89%	88%

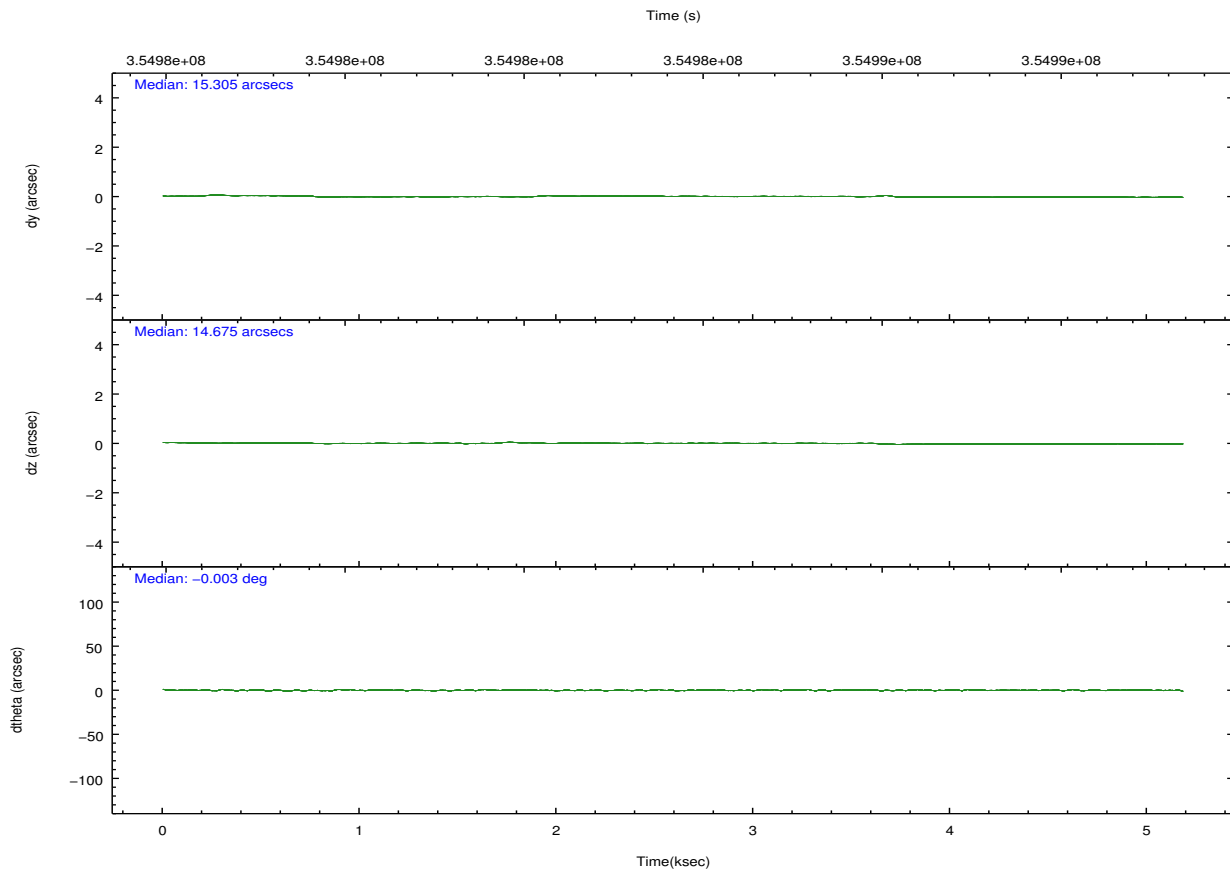
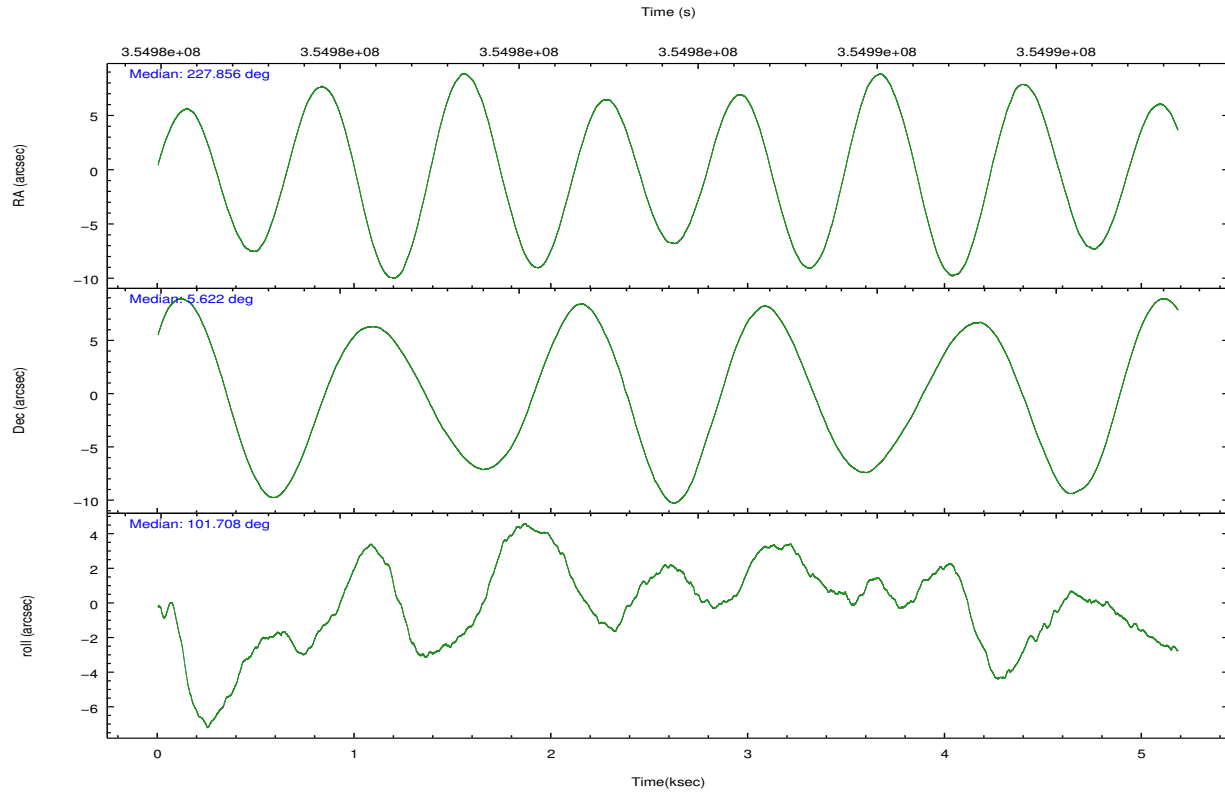
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	2004	1789	11966	1724	2168
	4%	4%	21%	4%	5%
grade 1 events	20	26	86	24	32
	0%	0%	0%	0%	0%
grade 2 events	1113	1087	2369	881	1036
	2%	2%	4%	2%	2%
grade 3 events	548	512	935	447	450
	1%	1%	1%	1%	1%
grade 4 events	475	516	851	411	497
	1%	1%	1%	0%	1%
grade 5 events	1523	1588	1477	1770	1748
	3%	4%	2%	4%	4%
grade 6 events	854	923	1176	848	925
	2%	2%	2%	2%	2%
grade 7 events	33924	31657	36081	36010	35648
	83%	83%	65%	85%	83%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	227.874366	227.8559402183756	CCD I2 on	Y	Y
[deg] Pointing Dec	5.601169	5.621706785564334	CCD I3 on	Y	Y
[deg] Pointing Roll	101.498578	101.7090783783754	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O1	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	N	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	354982427.184000	354981971.18582	CCD S5 on	N	N
Observation start date	2009-04-01T14:12:41	2009-04-01T14:06:11	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	354987427.184000	354988002.79862	On-chip summing requested	N	N
Observation end date	2009-04-01T15:36:01	2009-04-01T15:46:42	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



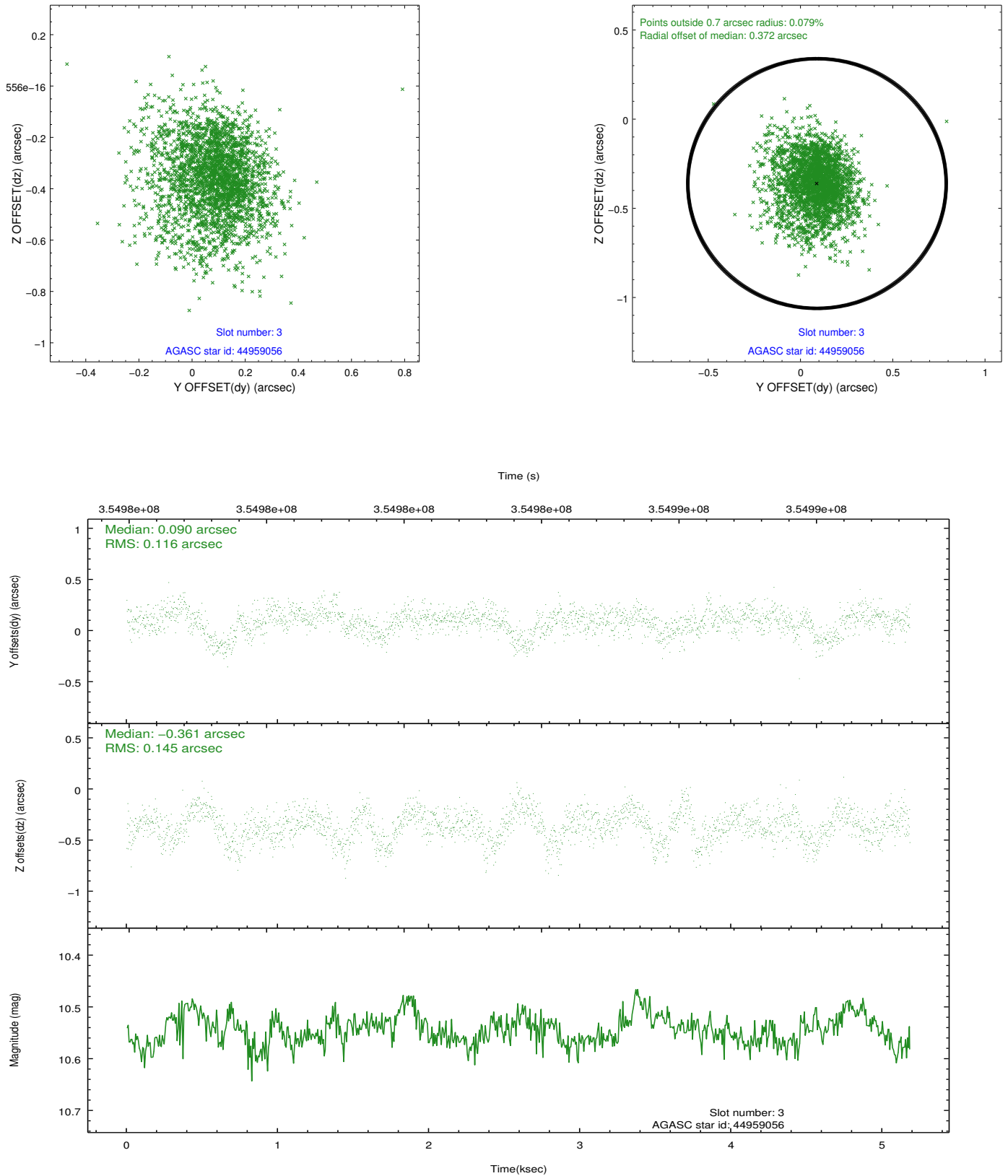


Slot Statistics

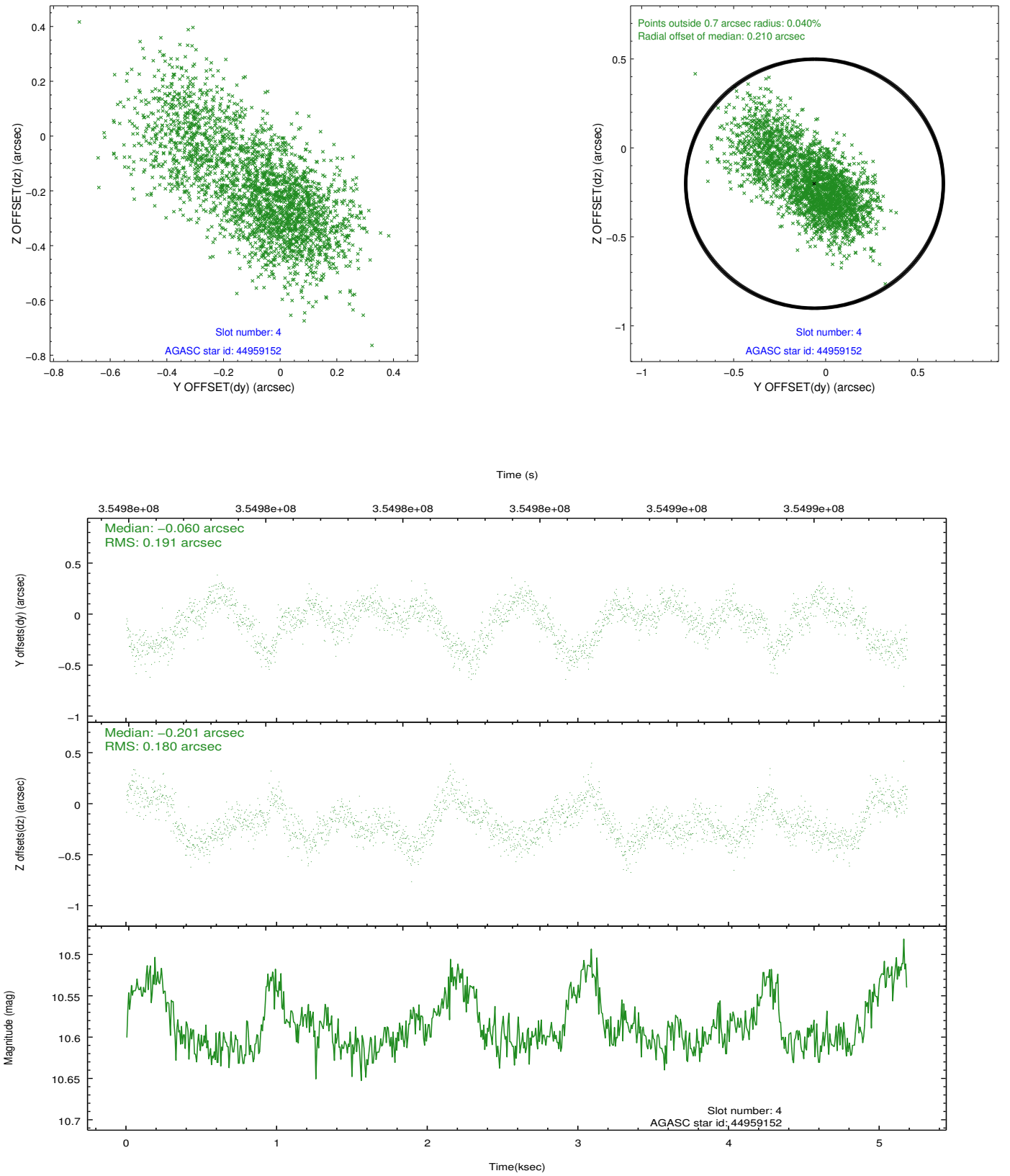
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.01	1264	0.013	0.028	0.006	0.011	0.000000	0.000000	924.17	-838.22
1	FID	ACIS-I-5	7.01	1264	-0.199	0.026	0.006	0.011	0.000000	0.000000	-1823.53	1058.64
2	FID	ACIS-I-6	7.01	1264	0.095	0.016	0.007	0.011	0.000000	0.000000	388.49	1704.49
3	GUIDE	44959056	10.55	2521	0.090	-0.361	0.194	0.329	227.388506	5.331015	-605.32	1900.79
4	GUIDE	44959152	10.59	2518	-0.060	-0.201	0.277	0.473	227.413679	5.123161	-1356.83	1962.84
5	GUIDE	44965328	10.31	2519	0.129	0.337	0.224	0.365	228.534745	5.246265	-1723.14	-2063.81
6	GUIDE	44965624	7.28	2528	-0.008	0.097	0.101	0.151	228.383124	5.044201	-2328.81	-1388.23
7	GUIDE	45485880	9.70	2526	-0.108	0.110	0.143	0.221	228.190636	6.293142	2214.78	-1605.14

2.4 Star Slots

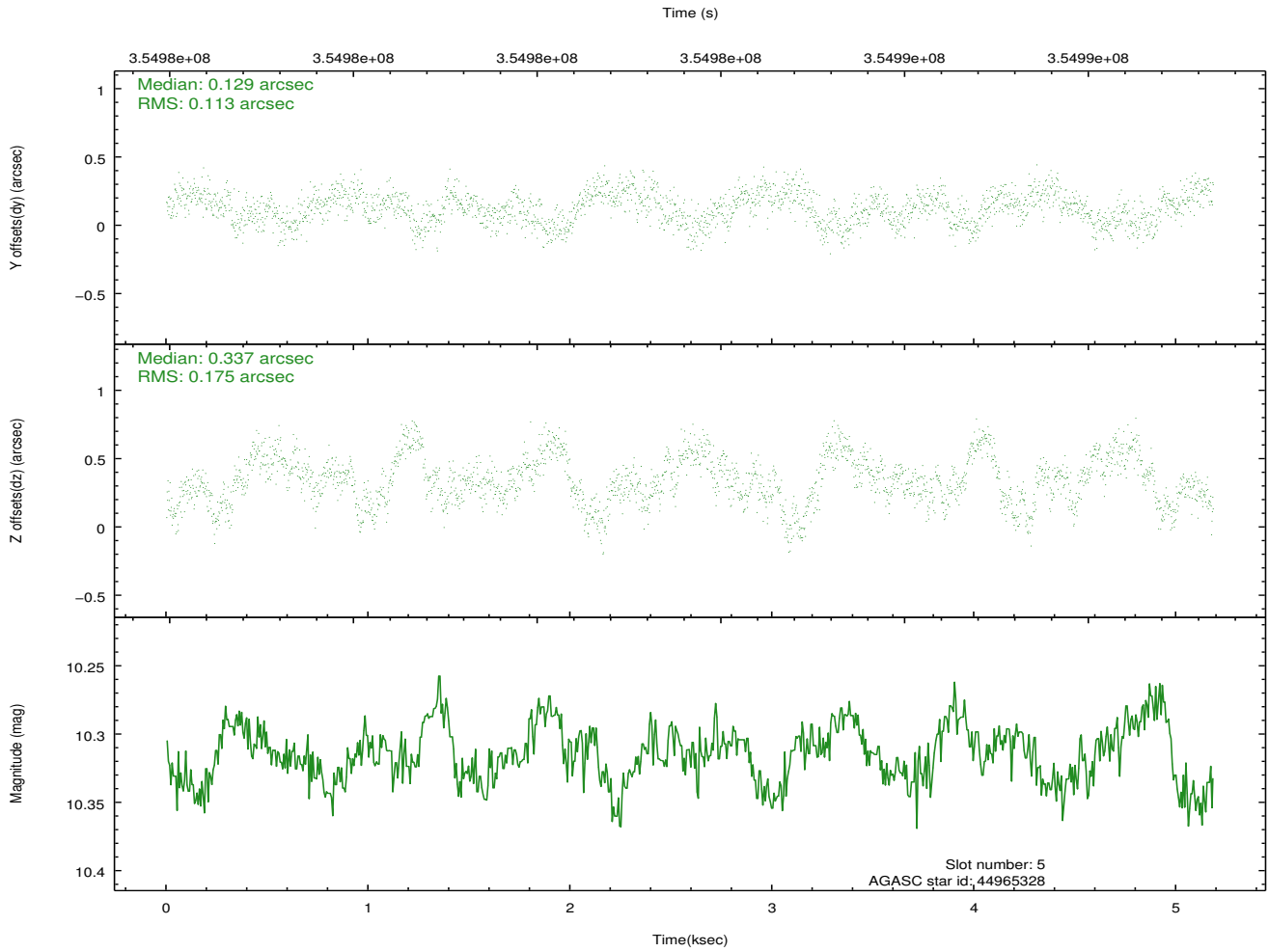
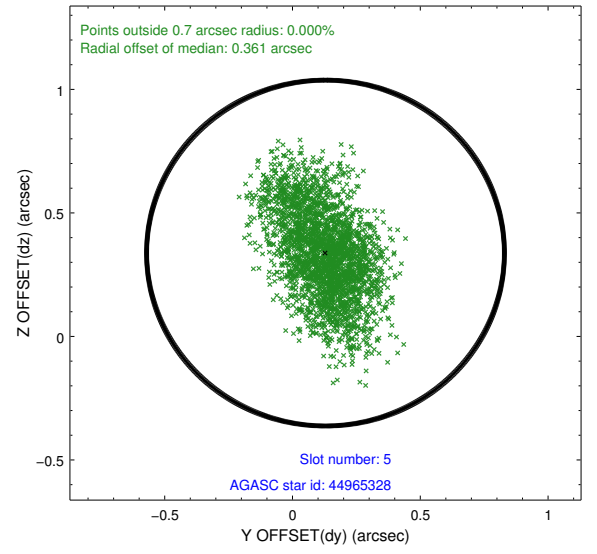
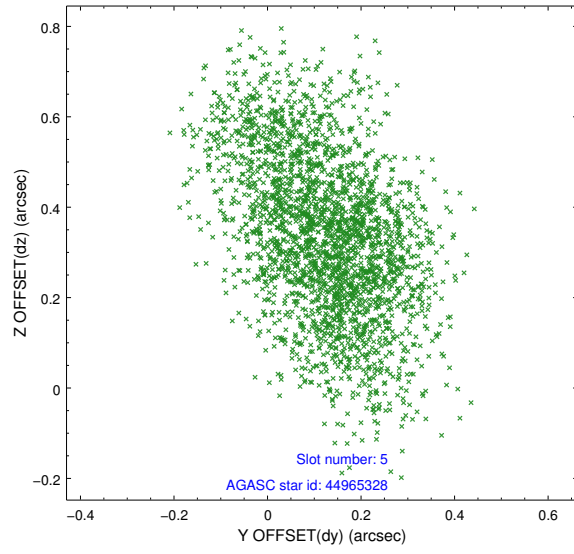
2.4.1 Slot 3



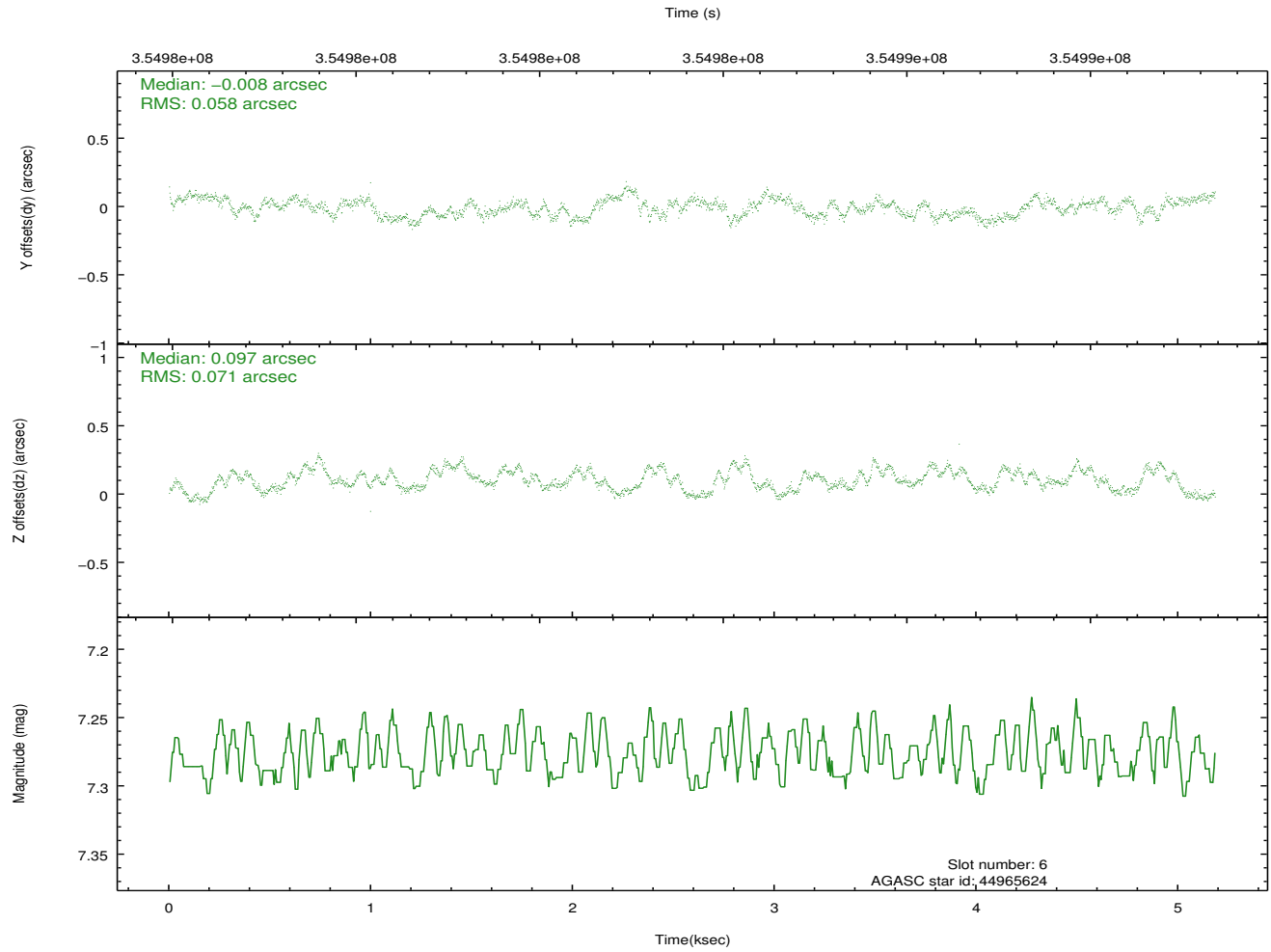
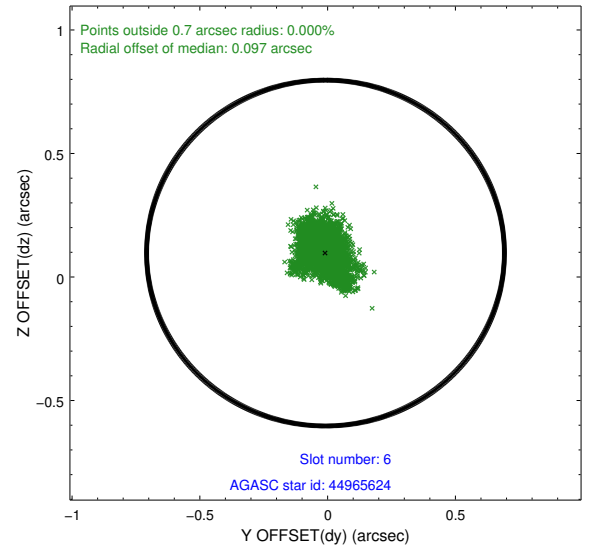
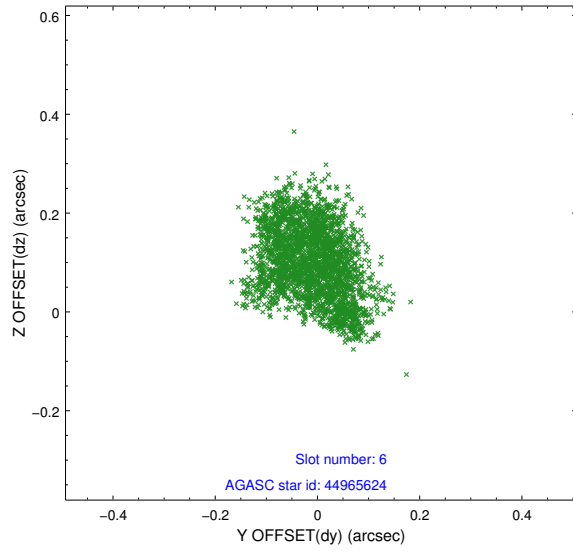
2.4.2 Slot 4



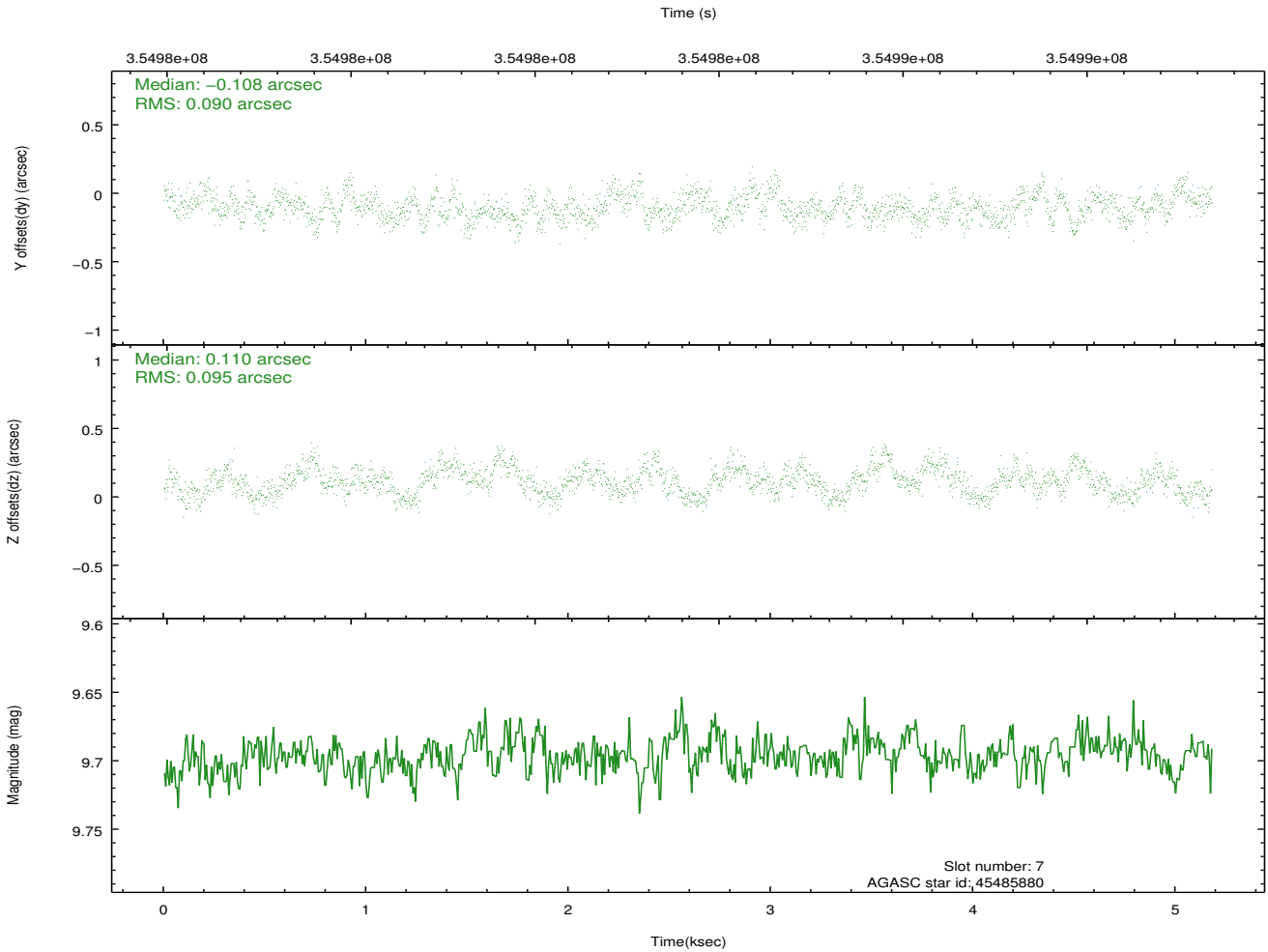
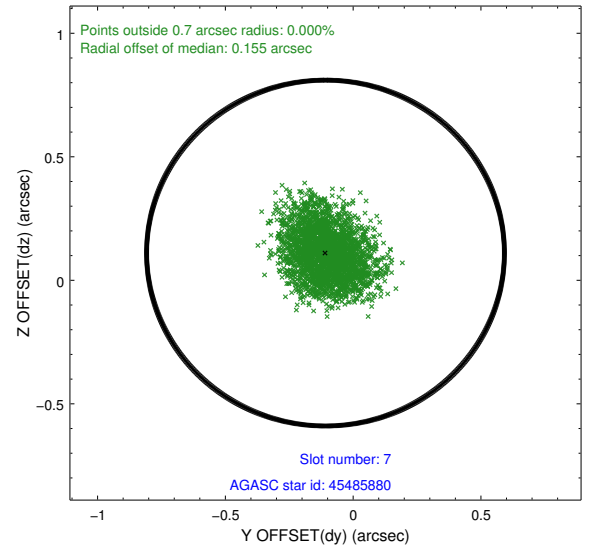
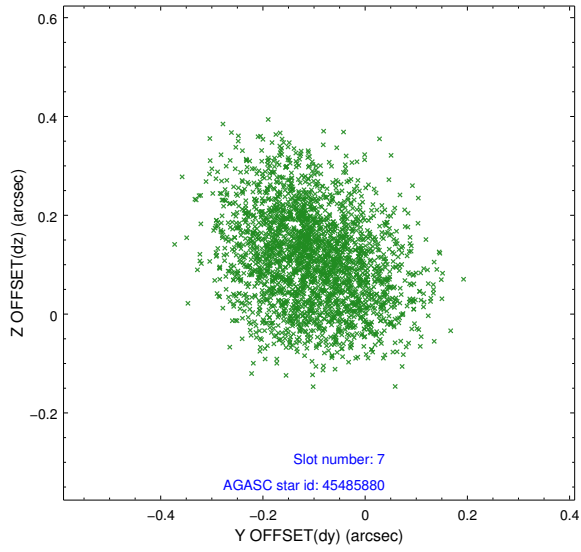
2.4.3 Slot 5



2.4.4 Slot 6

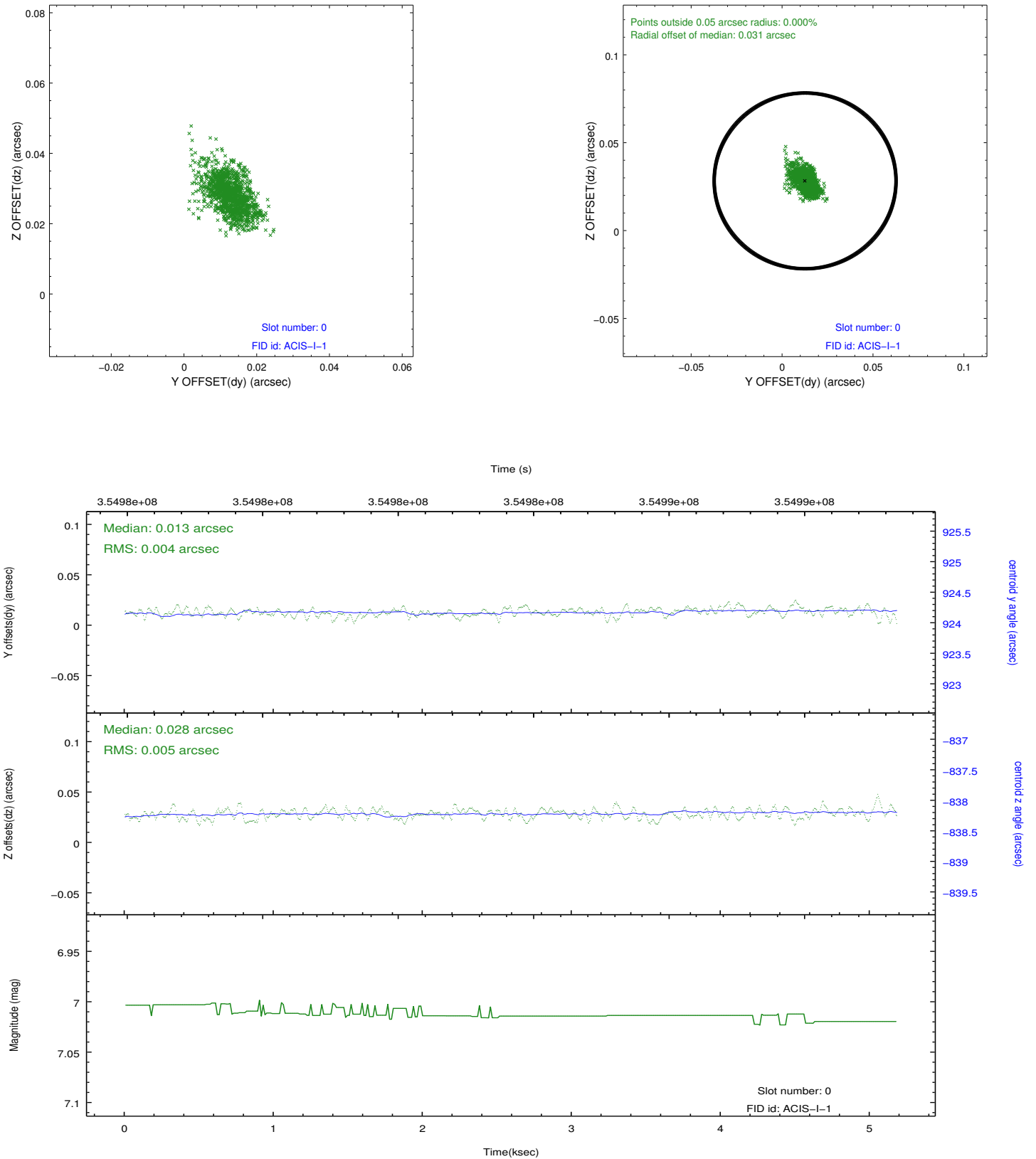


2.4.5 Slot 7

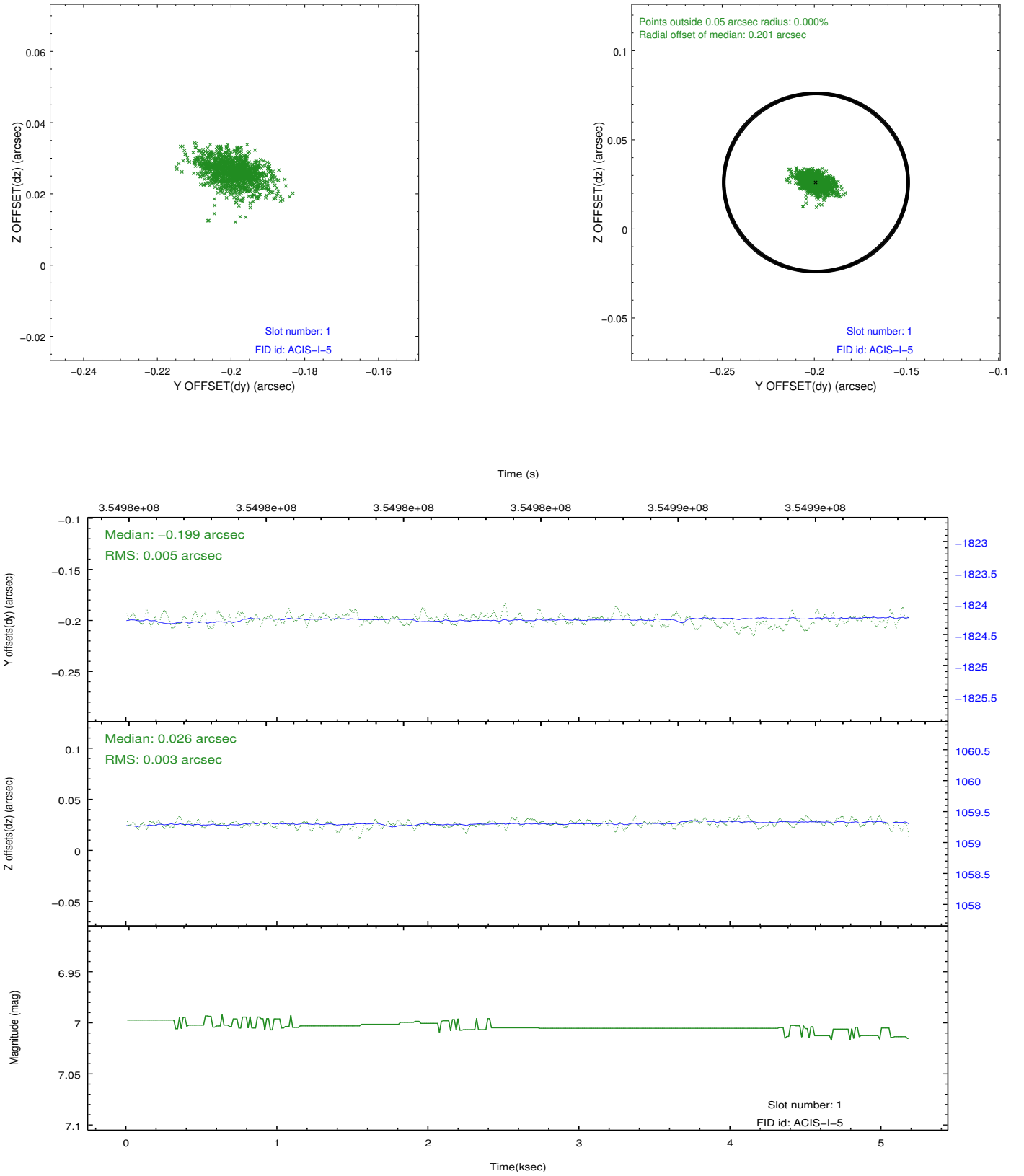


2.5 FID Slots

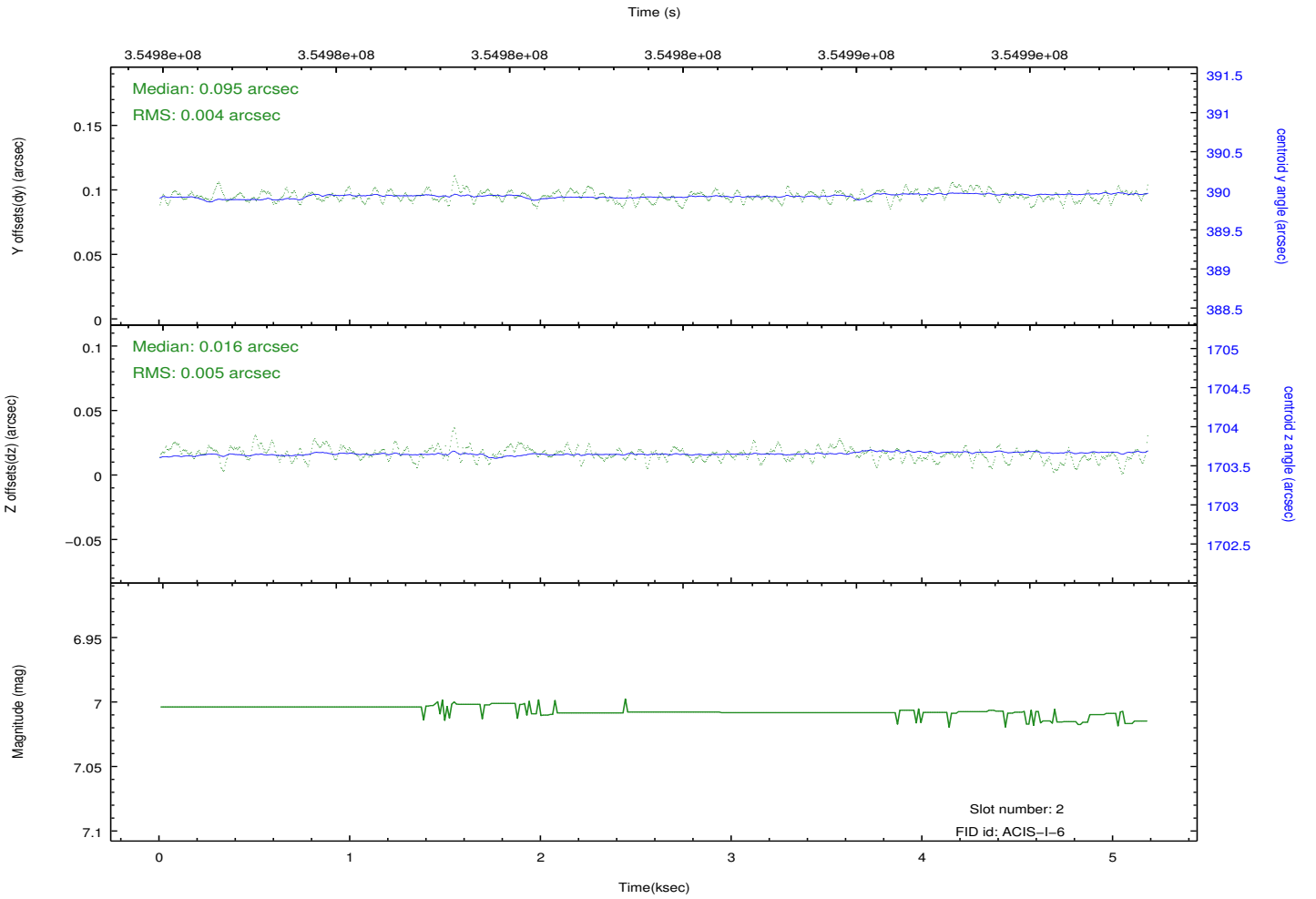
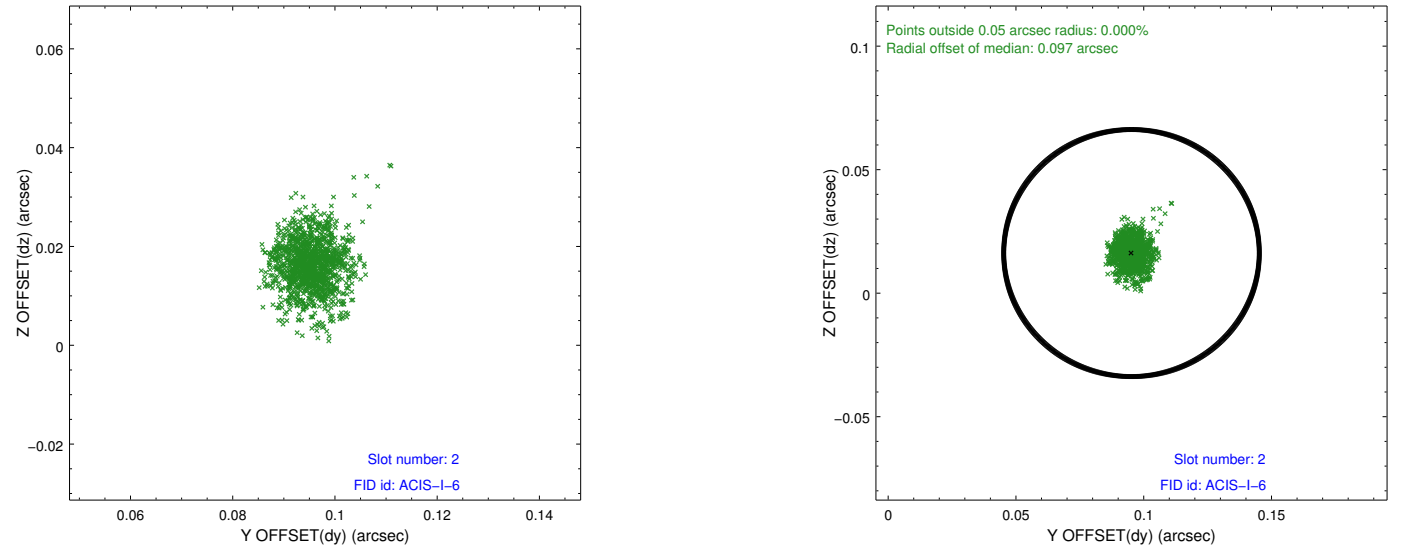
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.06.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.77400003

A.2 Comments