

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 5153 - L2 Version 3
Chandra X-Ray Center

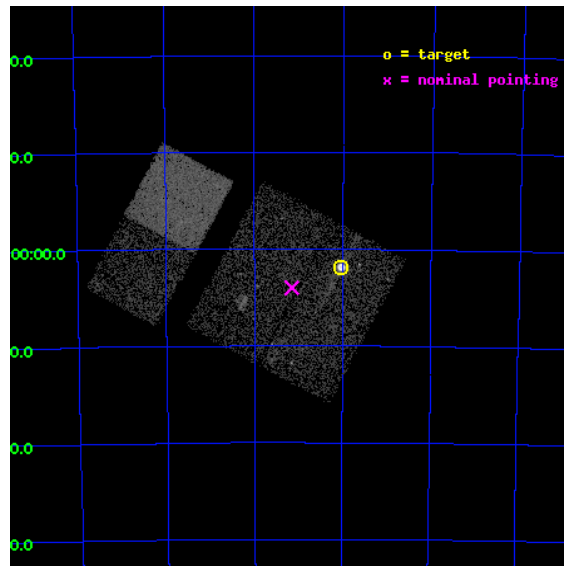
L2 Processing Date : Nov 9 2012

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1 Front

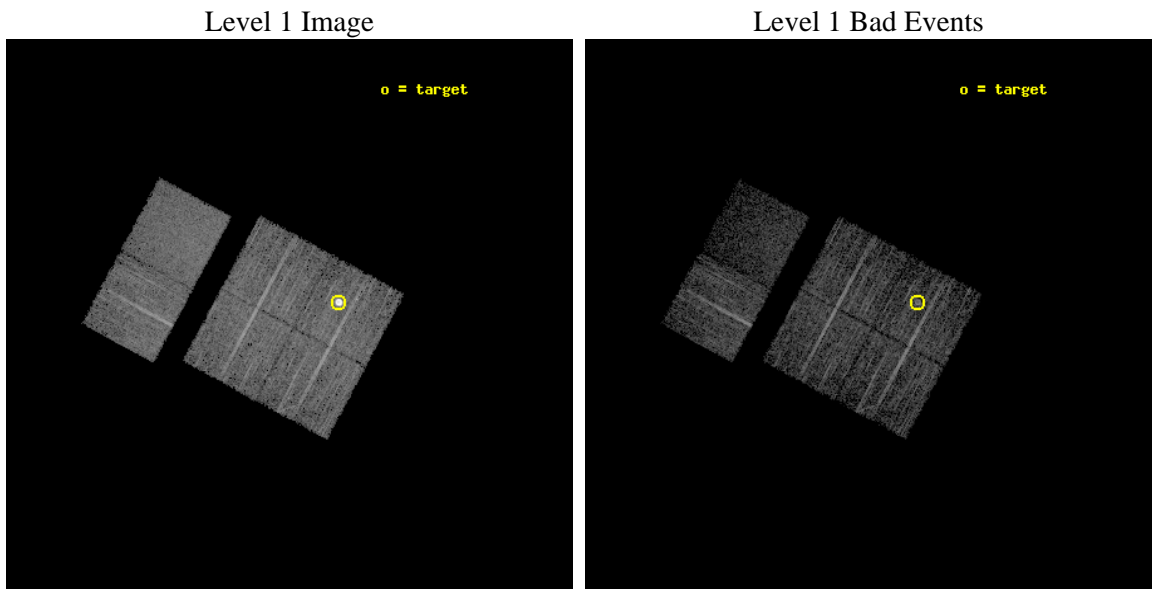
seq_num	590351	Sequence number
obs_id	5153	Observation id
title	AO5A ACIS-I Calibration Observations of E0102-72	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	E0102-72[I1,-120,-4.0,-3.68,0]	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	16.01	Observer's specified target RA [deg]
dec_targ	-72.032028	Observer's specified target Dec [deg]
ra_nom	16.288450370062	Nominal RA [deg]
dec_nom	-72.066780602925	Nominal Dec [deg]
roll_nom	298.31729363312	Nominal Roll [deg]
revision	3	Processing version of data
ontime	7491.159011811	Sum of GTIs [s]
livetime	7396.301445769	Livetime [s]
ontime0	7491.1589818597	Sum of GTIs [s]
ontime1	7491.159011811	Sum of GTIs [s]
ontime2	7494.3999720812	Sum of GTIs [s]
ontime3	7494.3999720812	Sum of GTIs [s]
ontime6	7494.3999720812	Sum of GTIs [s]
ontime7	7494.3999720812	Sum of GTIs [s]
l2events	54192	Number of level 2 events



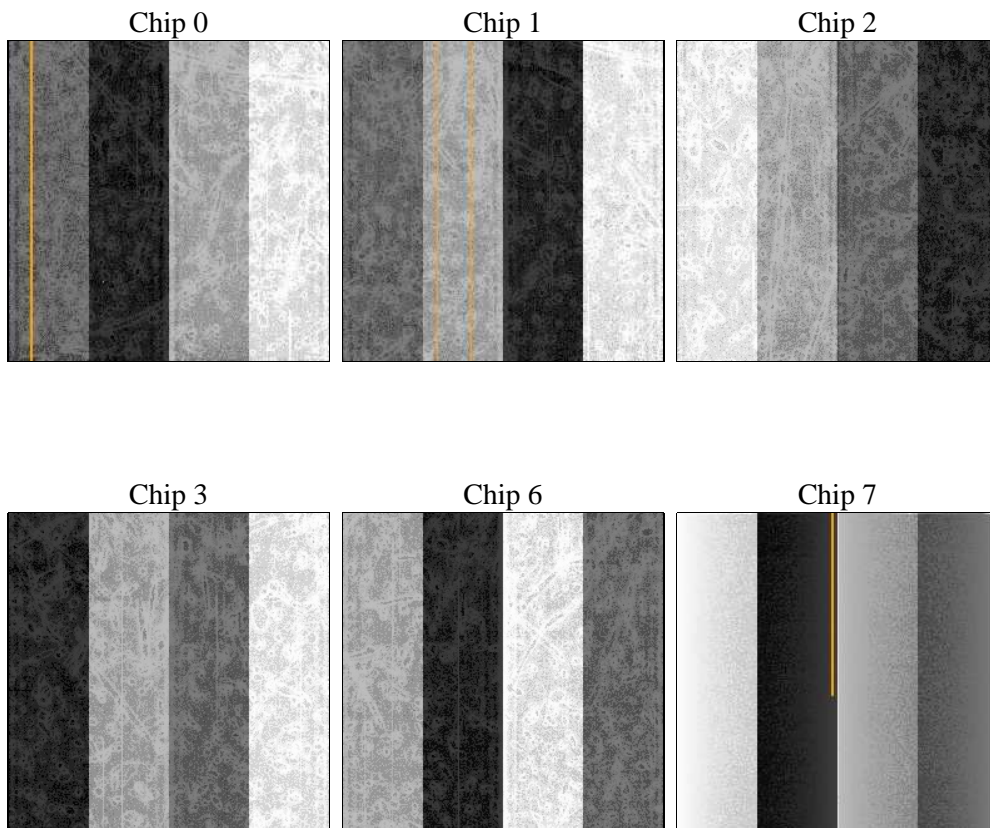
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	7791.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	7491.159011811	Sum of GTIs [s]
caldsver	4.5.2	 	ontime0	7491.1589818597	Sum of GTIs [s]
date	2012-11-09T07:41:07	Date and time of file creation	ontime1	7491.159011811	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	7494.3999720812	Sum of GTIs [s]
			ontime3	7494.3999720812	Sum of GTIs [s]
			ontime6	7494.3999720812	Sum of GTIs [s]
			ontime7	7494.3999720812	Sum of GTIs [s]
			l1events	228083	Number of level 1 events

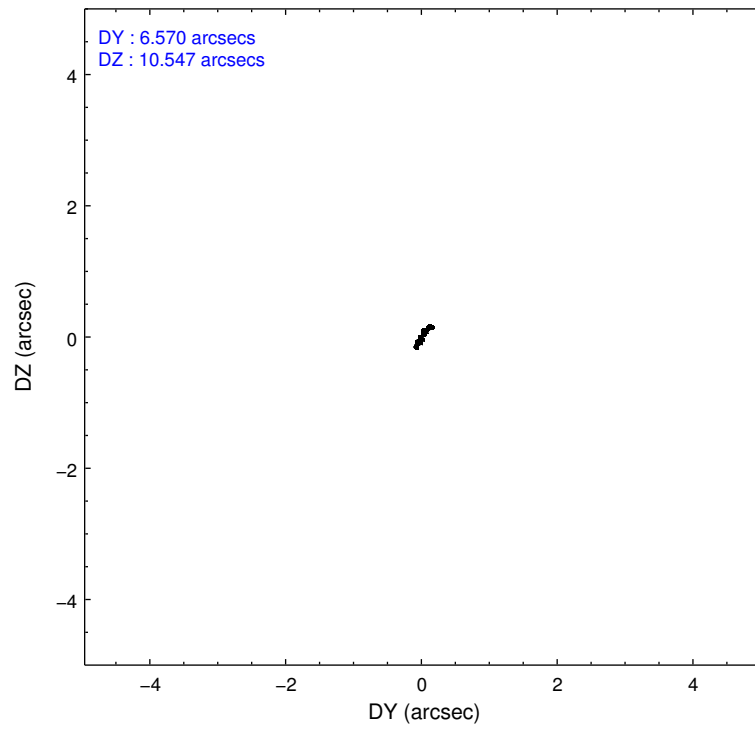
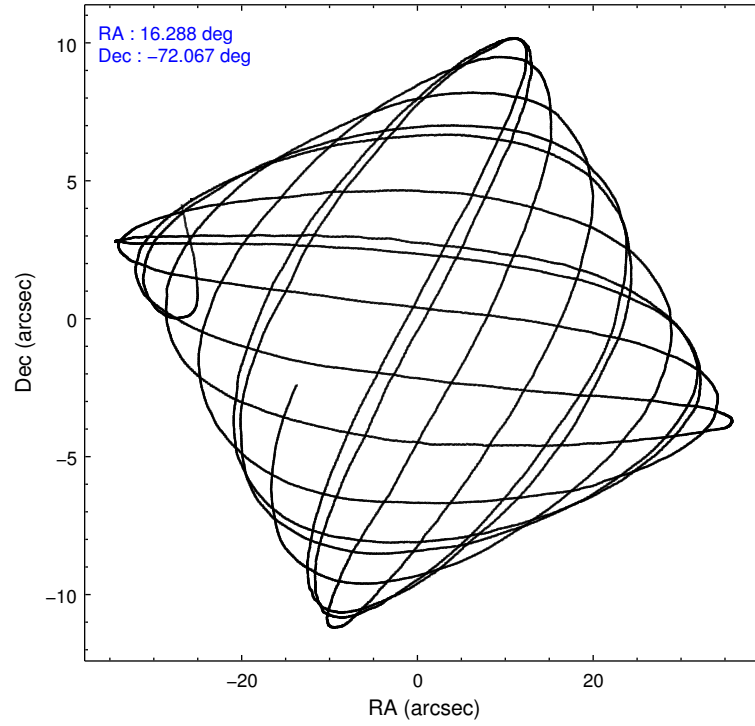
2.1.4 Events

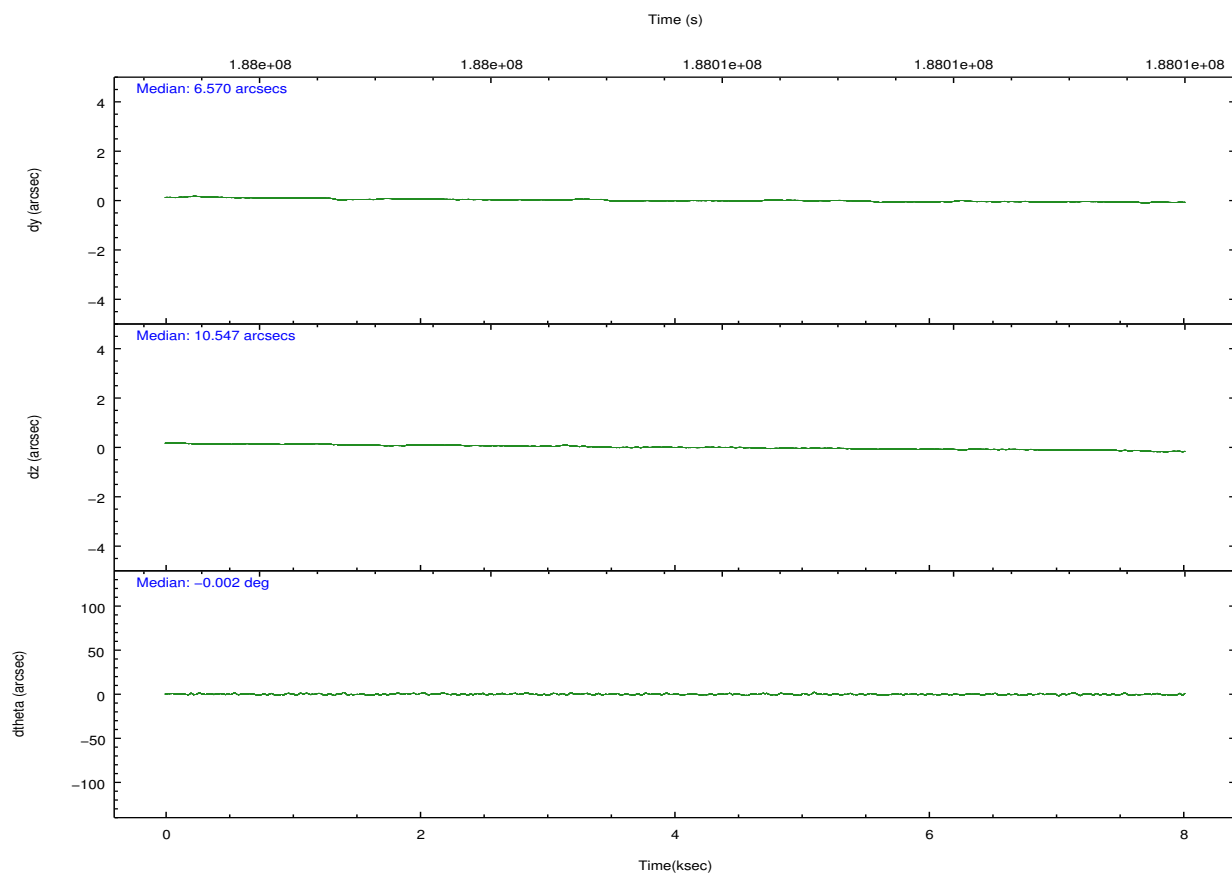
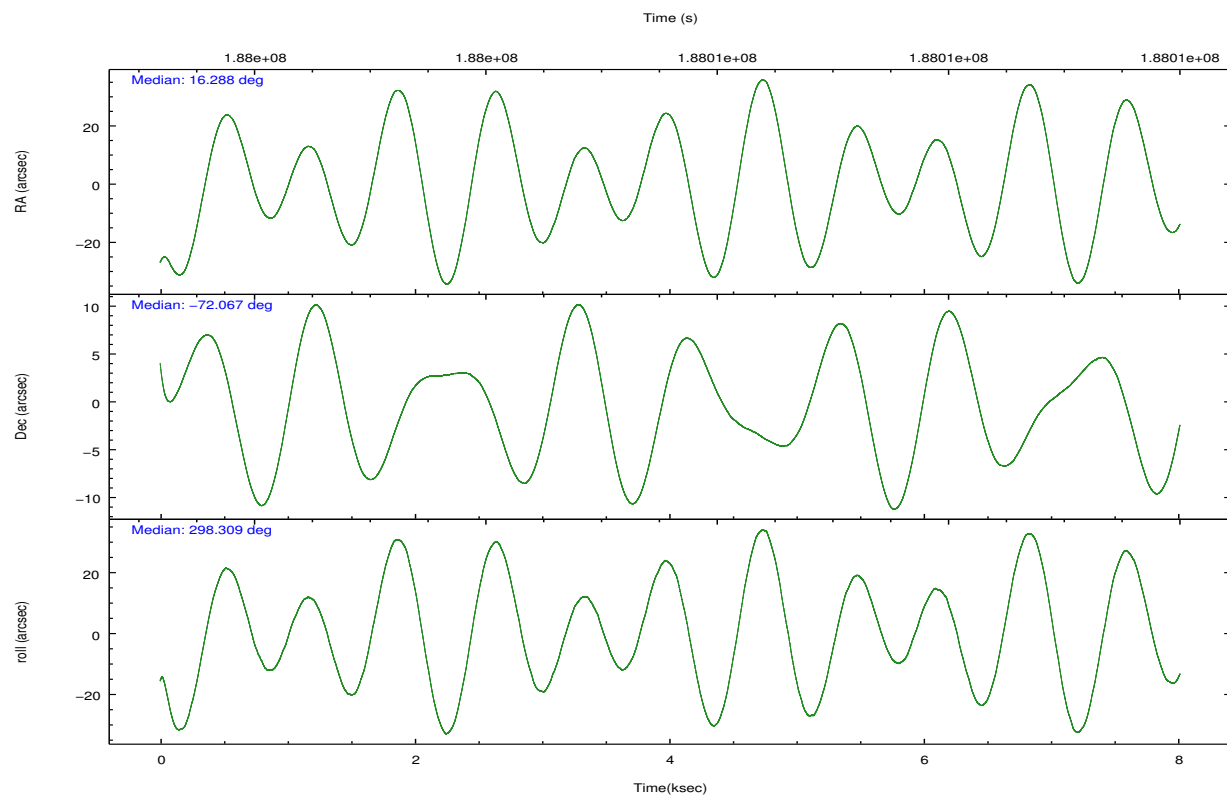
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	33074	56991	34975	34129	35414	33500	grade 0 events	1886	22230	1762	1428	1289	1730
rejected events	28908	29695	31037	30672	31864	17007		5%	39%	5%	4%	3%	5%
rejected %	87%	52%	88%	89%	89%	50%	grade 1 events	11	182	16	19	22	29
								0%	0%	0%	0%	0%	0%
							grade 2 events	847	2511	779	721	785	3456
								2%	4%	2%	2%	2%	10%
							grade 3 events	418	879	377	367	412	1655
								1%	1%	1%	1%	1%	4%
							grade 4 events	387	862	415	346	377	1620
								1%	1%	1%	1%	1%	4%
							grade 5 events	1037	1176	950	1186	1262	3726
								3%	2%	2%	3%	3%	11%
							grade 6 events	633	825	607	595	687	8032
								1%	1%	1%	1%	1%	23%
							grade 7 events	27855	28326	30069	29467	30580	13252
								84%	49%	85%	86%	86%	39%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	16.212787	16.2884503700617	Subarray requested	NONE	NONE
[deg] Pointing Dec	-72.052441	-72.06678060292487	Alternating exposures requested	N	N
[deg] Pointing Roll	298.036605	298.3172936331216	[s] Primary exposure time	0.000000	3.2
[s] Window start time (MET)	181353664.184000	181353664.184000			
[s] Window stop time (MET)	189216064.184000	189216064.184000			
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	188001802.184000	188000820.27886			
Observation start date	2003-12-16T22:42:18	2003-12-16T22:27:00			
[s] Observation end time (MET)	188009593.184000	188009728.04175			
Observation end date	2003-12-17T00:52:09	2003-12-17T00:55:28			
Read mode	TIMED	TIMED			

2.3 Aspect



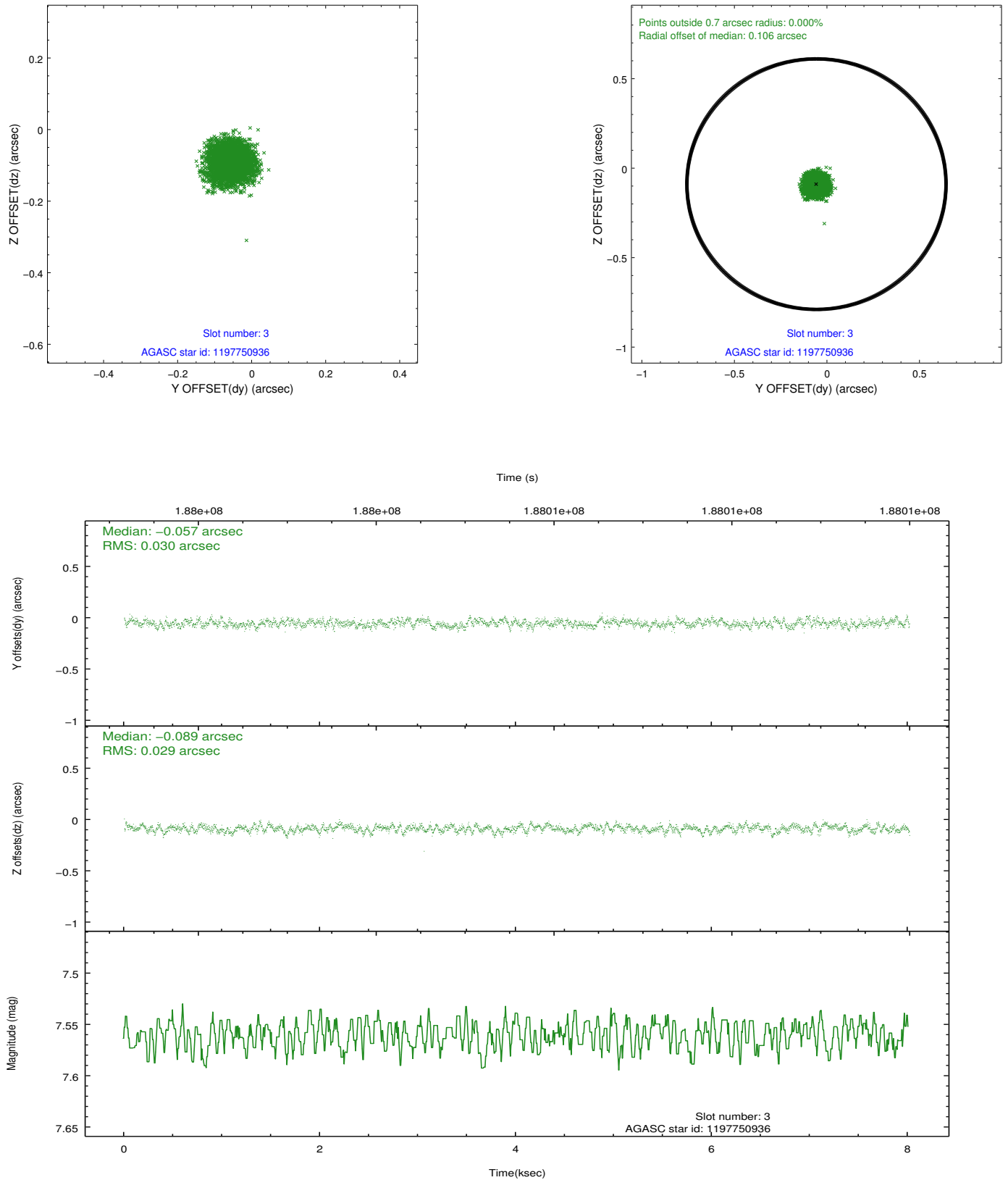


Slot Statistics

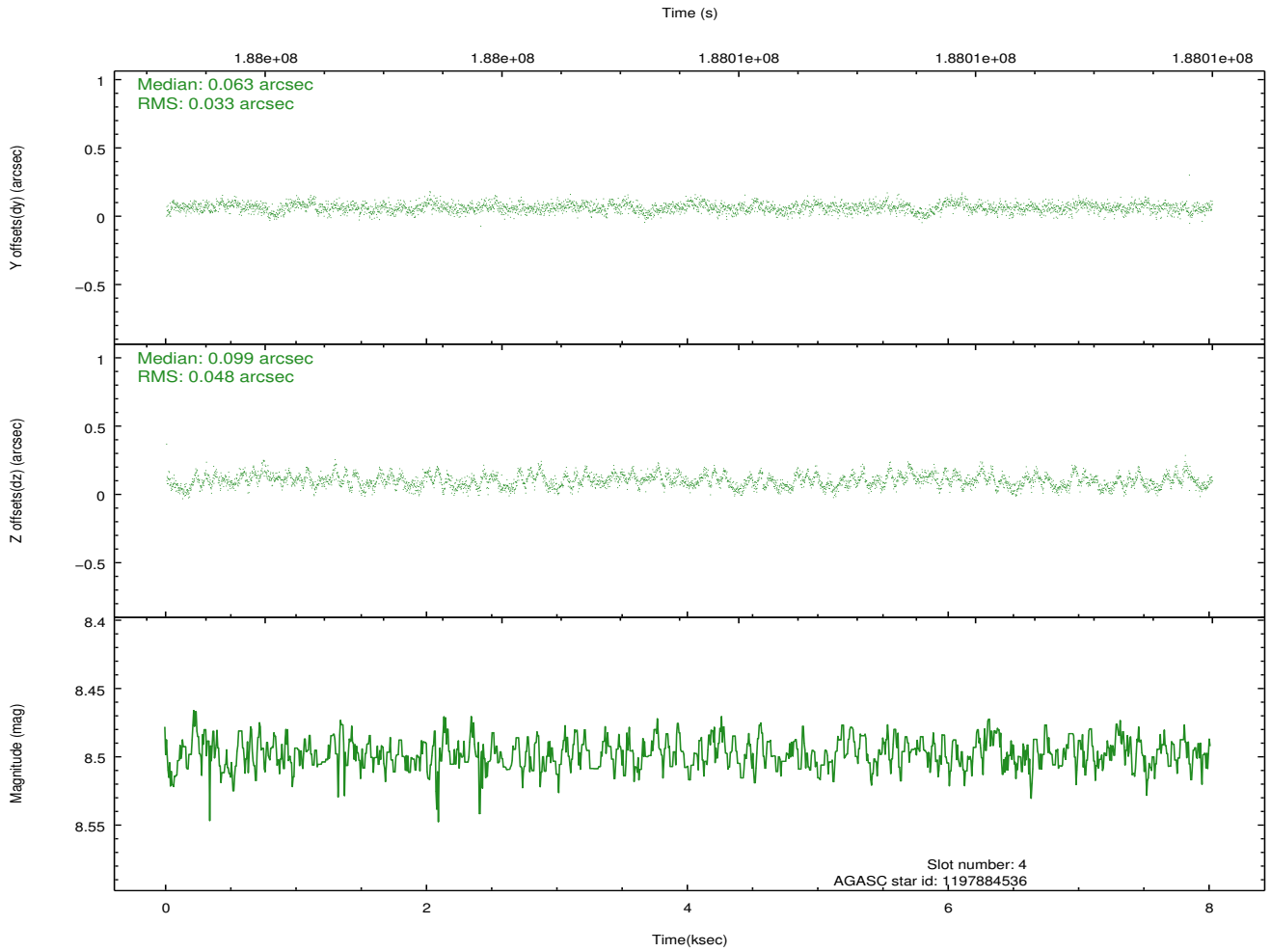
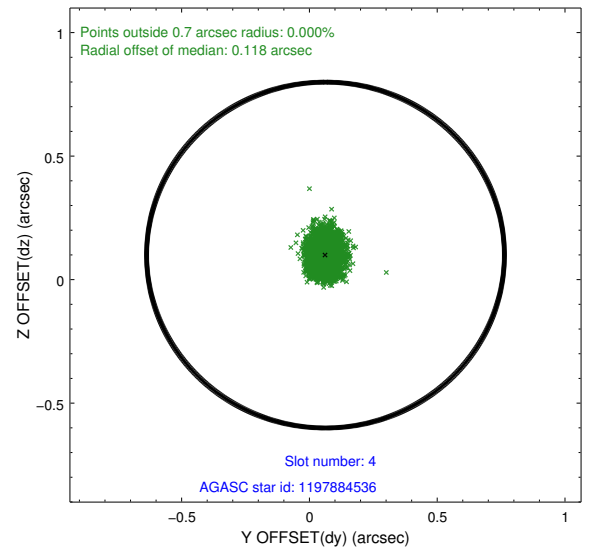
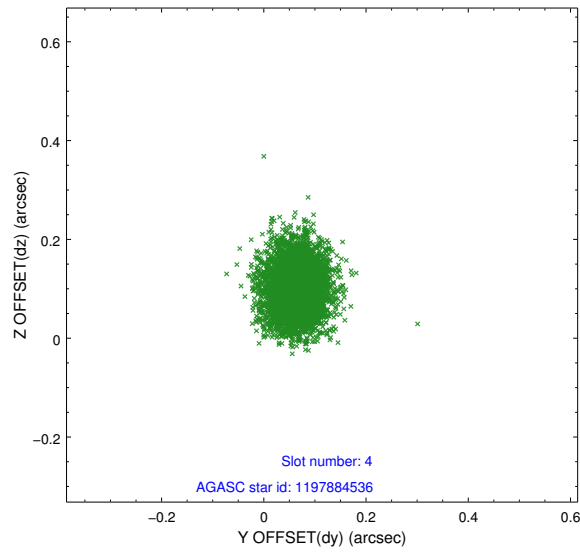
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	7.14	1955	-0.056	-0.095	0.010	0.016	0.000000	0.000000	-761.12	-840.50
1	FID	ACIS-I-4	7.18	1956	0.093	0.064	0.008	0.014	0.000000	0.000000	2152.77	1065.49
2	FID	ACIS-I-5	7.23	1956	-0.138	0.100	0.009	0.015	0.000000	0.000000	-1814.13	1064.16
3	GUIDE	1197750936	7.56	3912	-0.057	-0.089	0.045	0.072	15.387940	-71.549550	-2033.64	18.38
4	GUIDE	1197884536	8.50	3909	0.063	0.099	0.062	0.101	17.160729	-71.835289	-182.98	1302.93
5	GUIDE	1197884712	8.30	3912	0.105	0.049	0.056	0.092	16.087398	-72.252690	572.15	-459.56
6	GUIDE	1197885328	7.23	3912	-0.005	-0.054	0.054	0.083	16.283090	-71.733943	-974.38	609.42
7	GUIDE	1198189696	7.38	3911	-0.108	-0.003	0.053	0.086	15.223750	-72.697522	1560.02	-2029.60

2.4 Star Slots

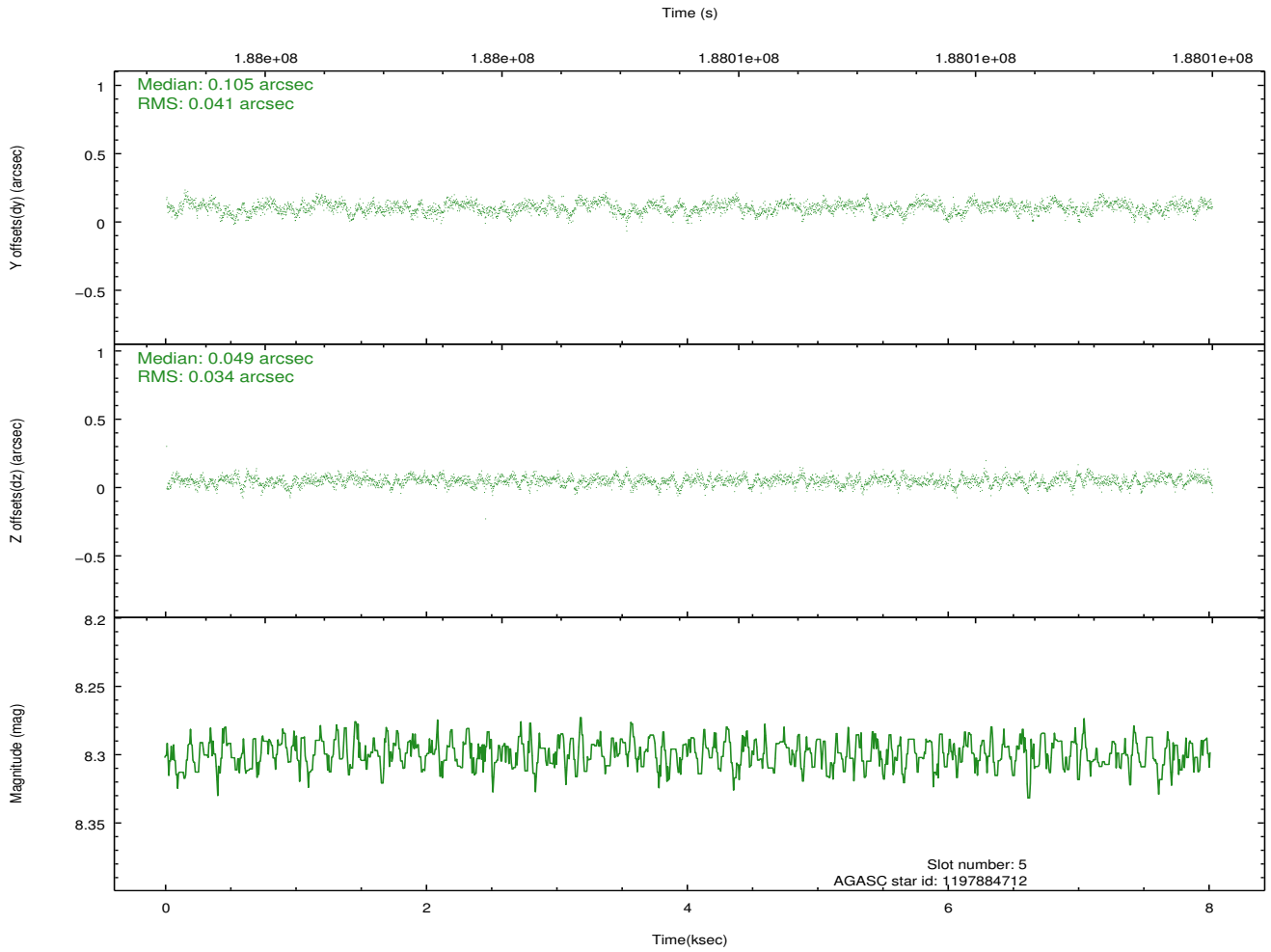
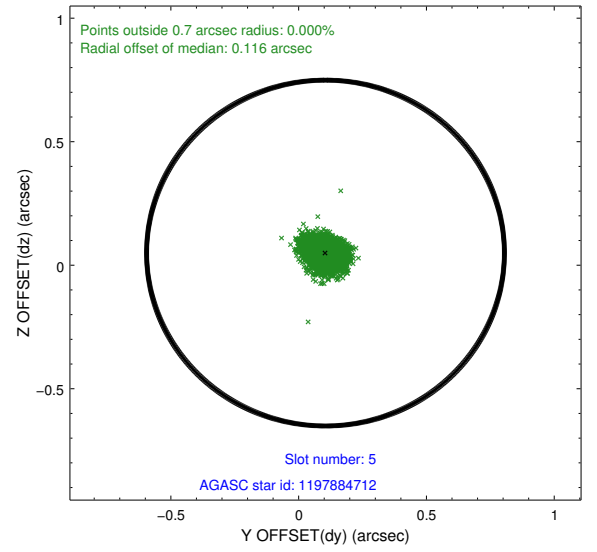
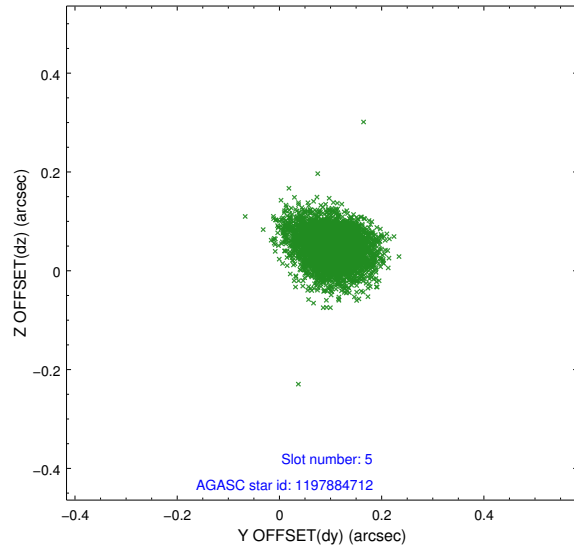
2.4.1 Slot 3



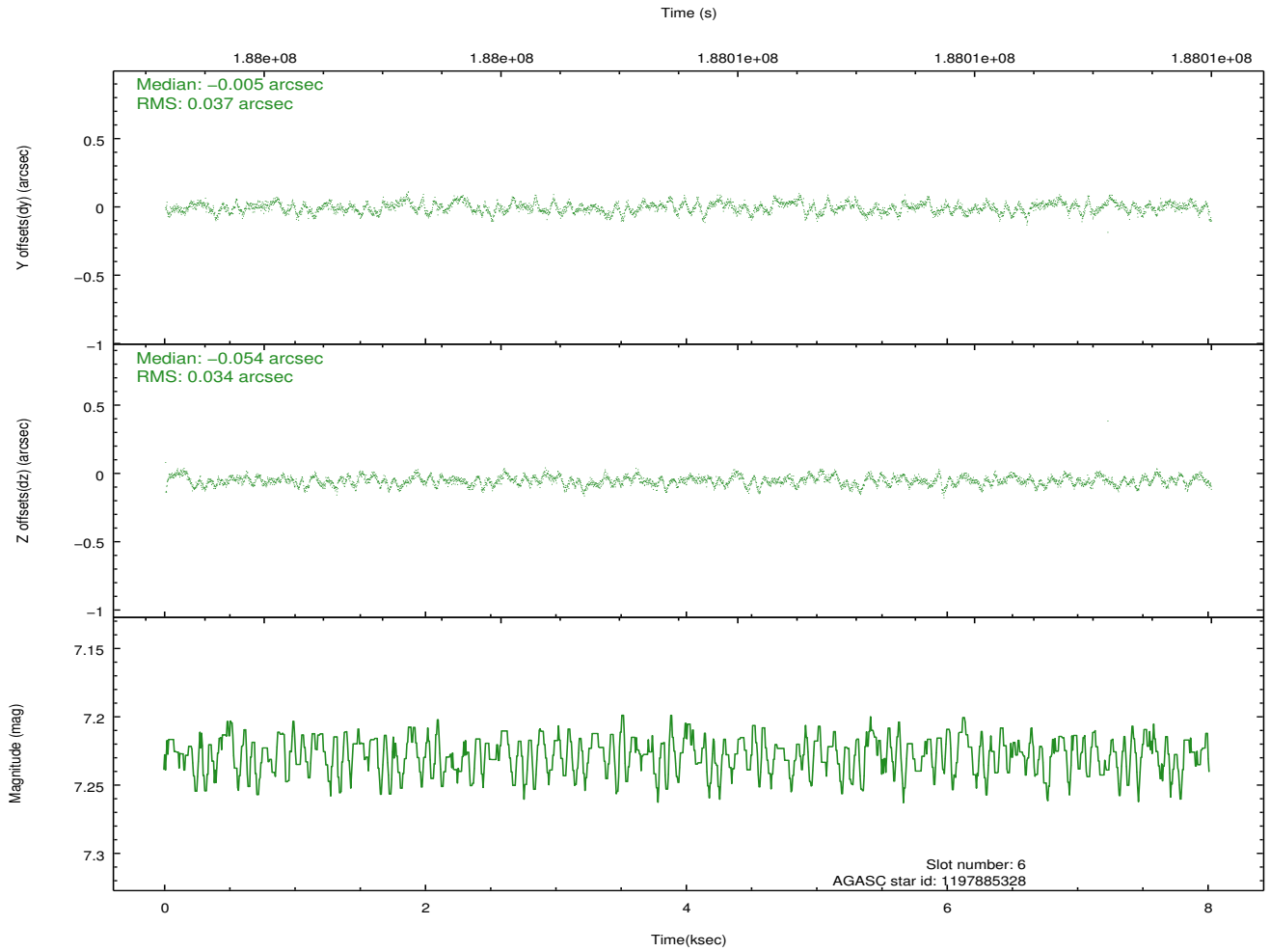
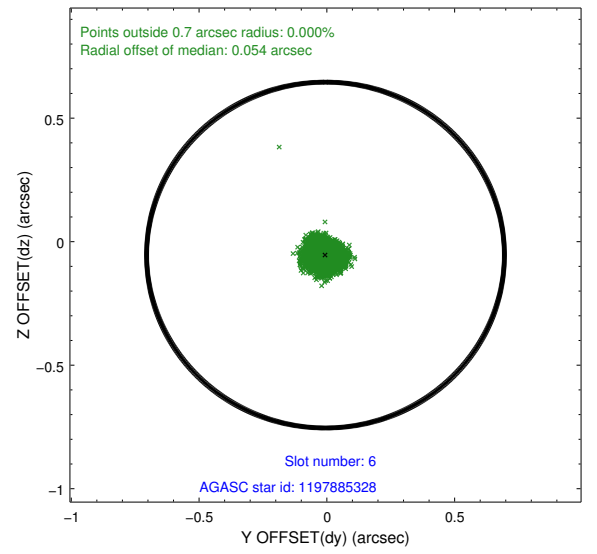
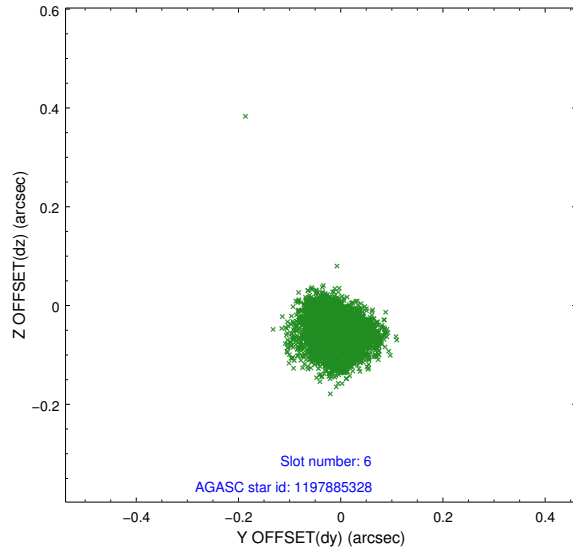
2.4.2 Slot 4



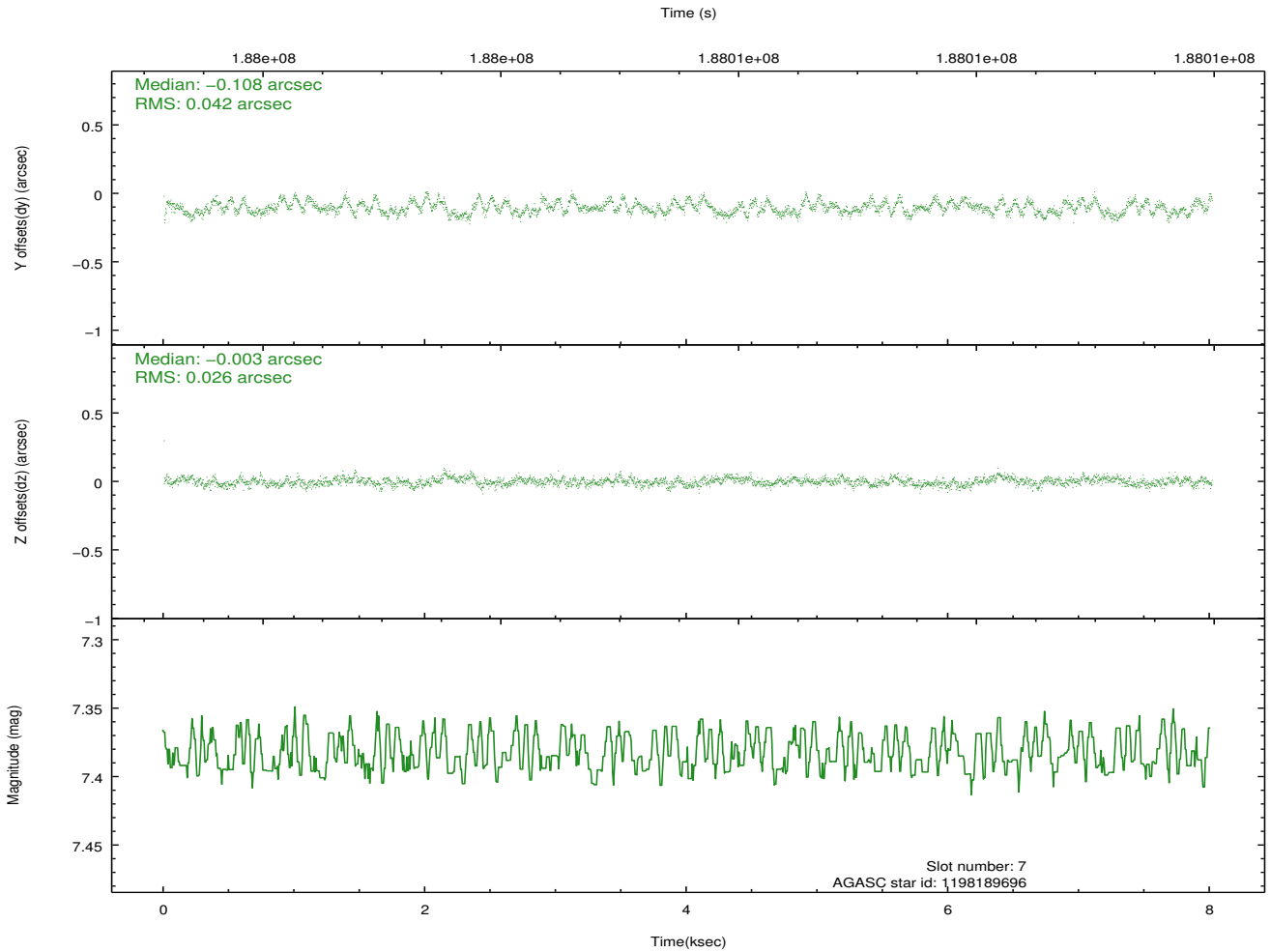
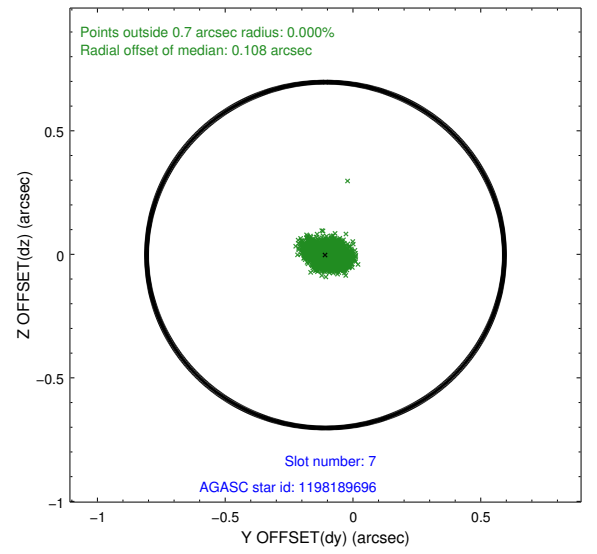
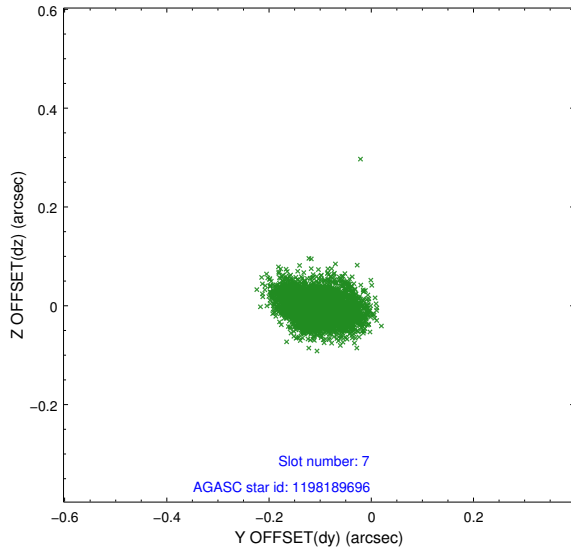
2.4.3 Slot 5



2.4.4 Slot 6

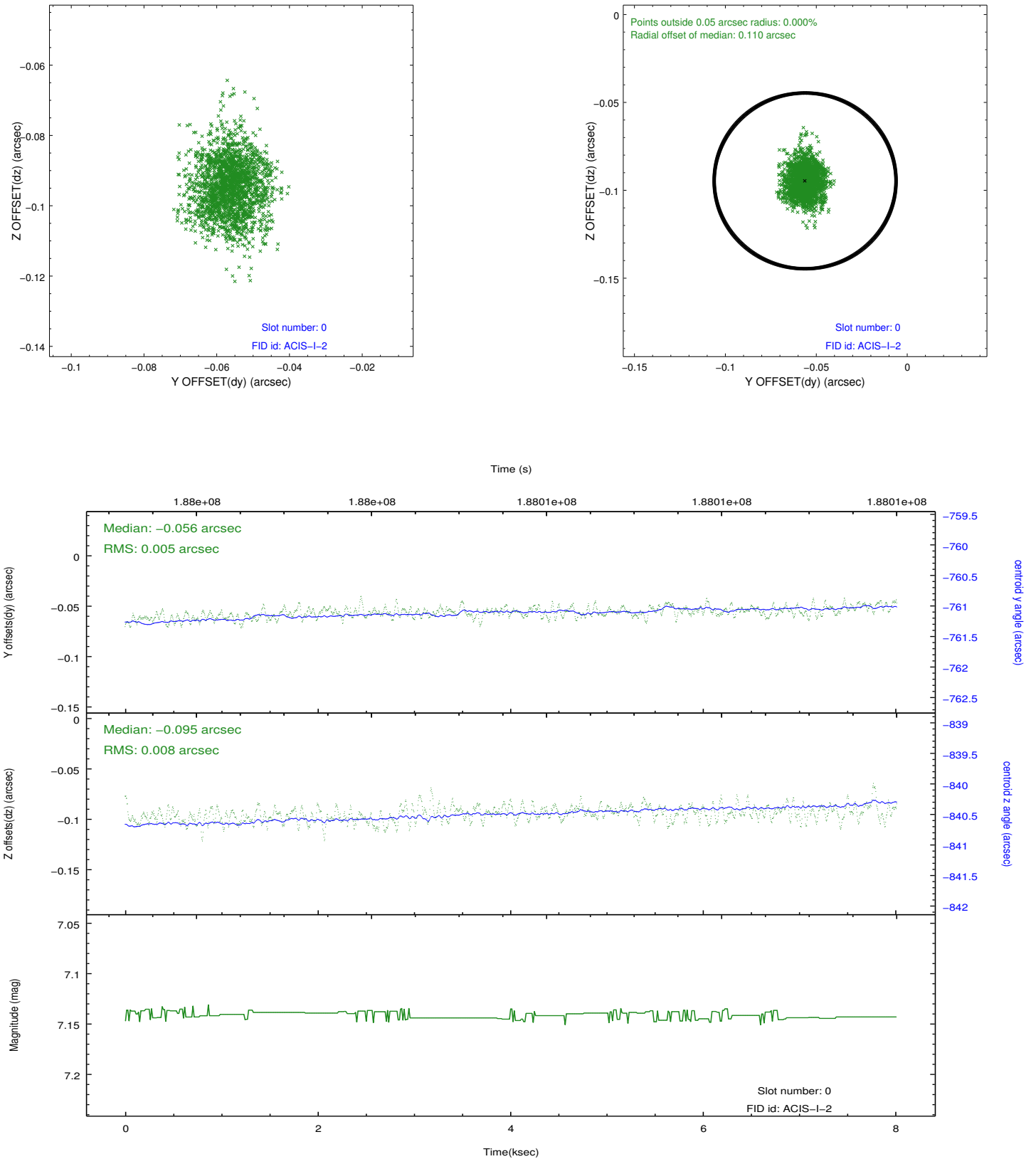


2.4.5 Slot 7

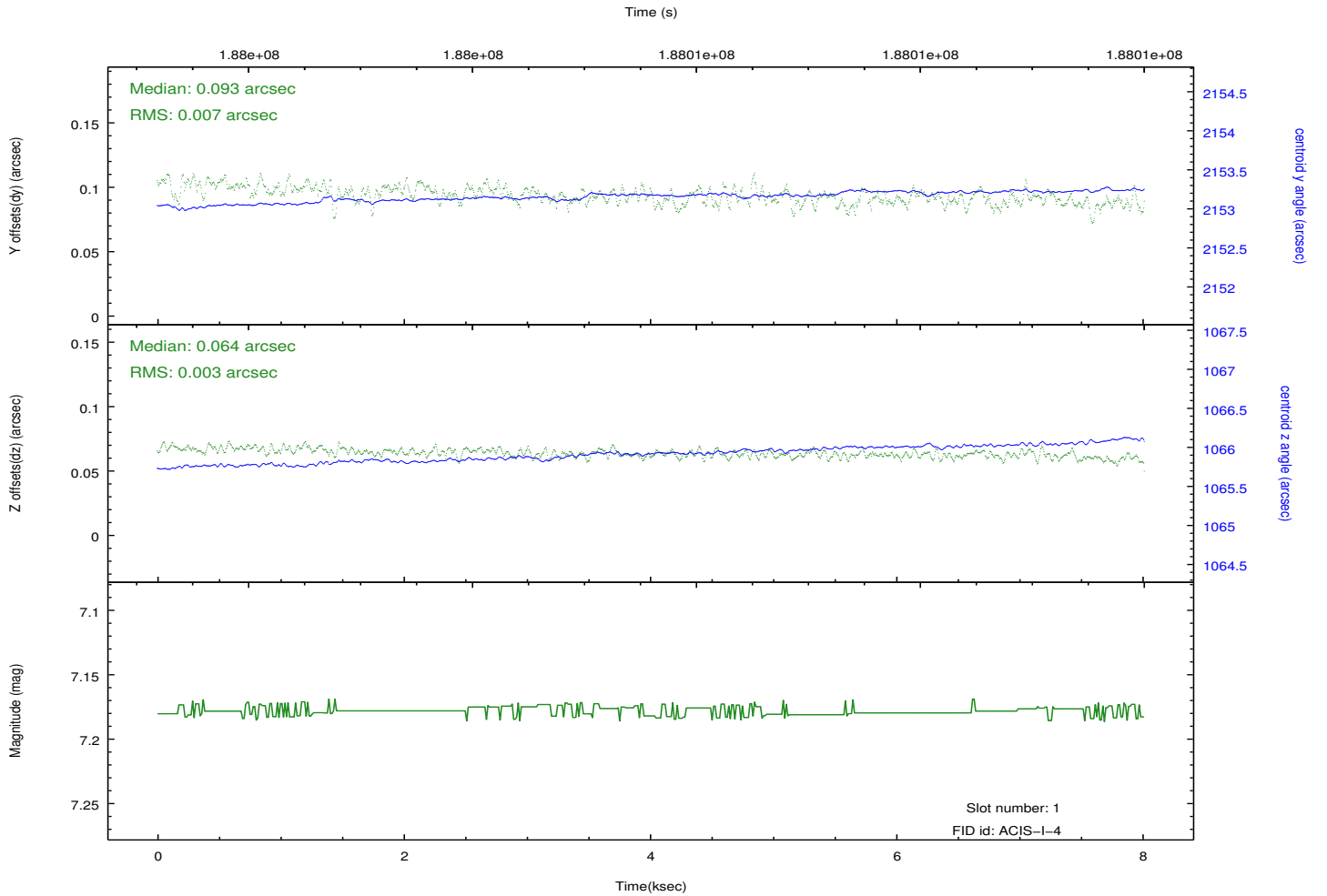
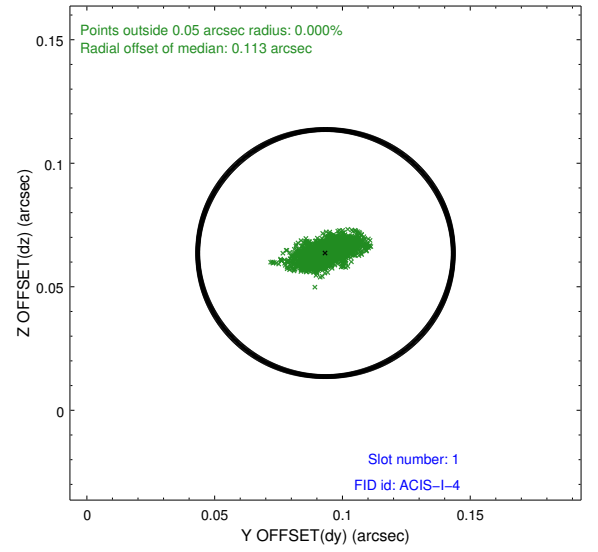
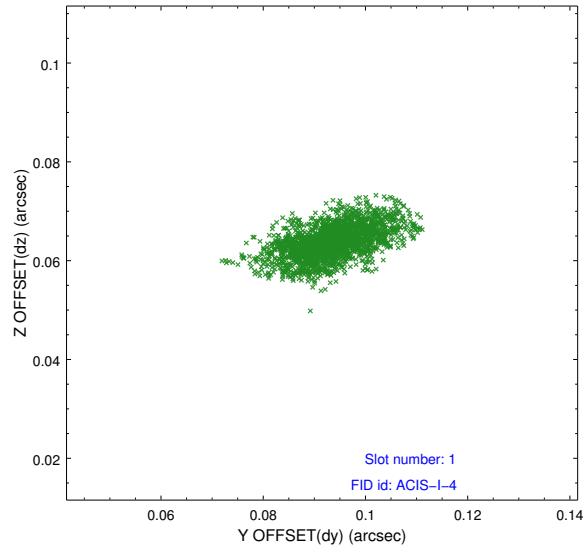


2.5 FID Slots

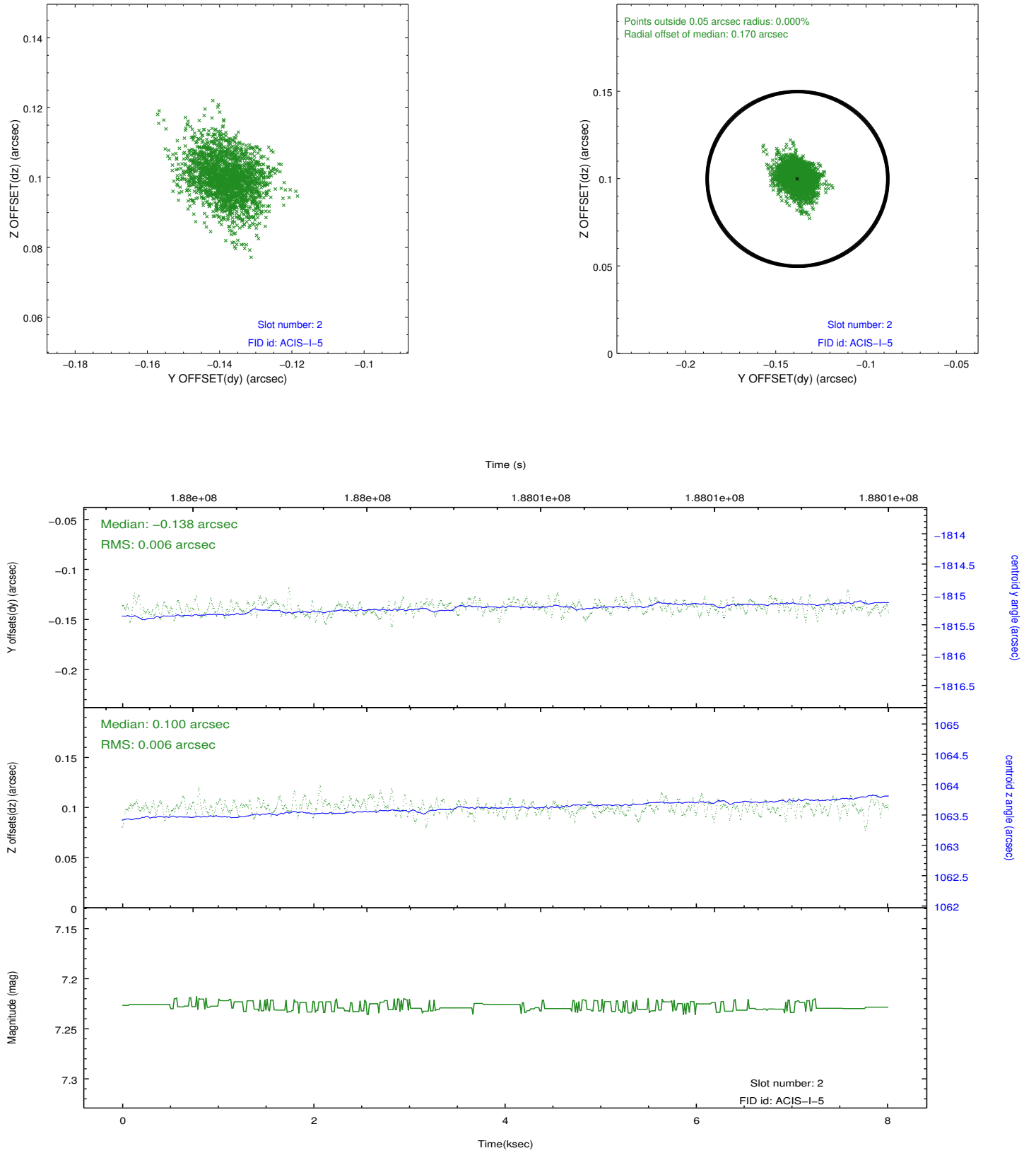
2.5.1 Slot 0



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)	2012.12.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.494

A.2 Comments

Window constraint met.