

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 10419 - L2 Version 2
Chandra X-Ray Center

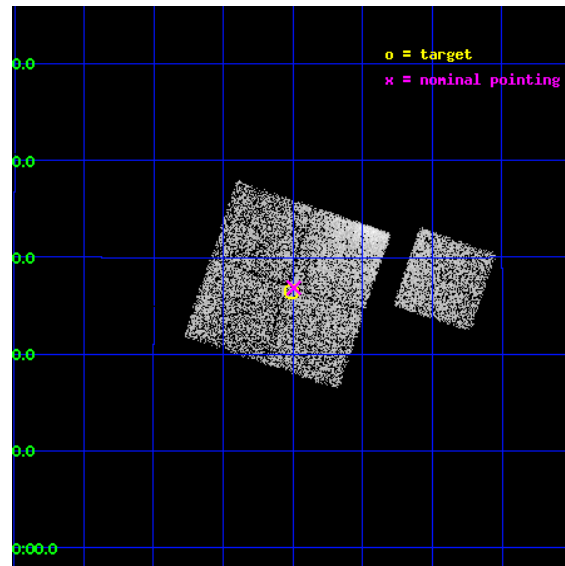
L2 Processing Date : Jun 9 2012

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1 Front

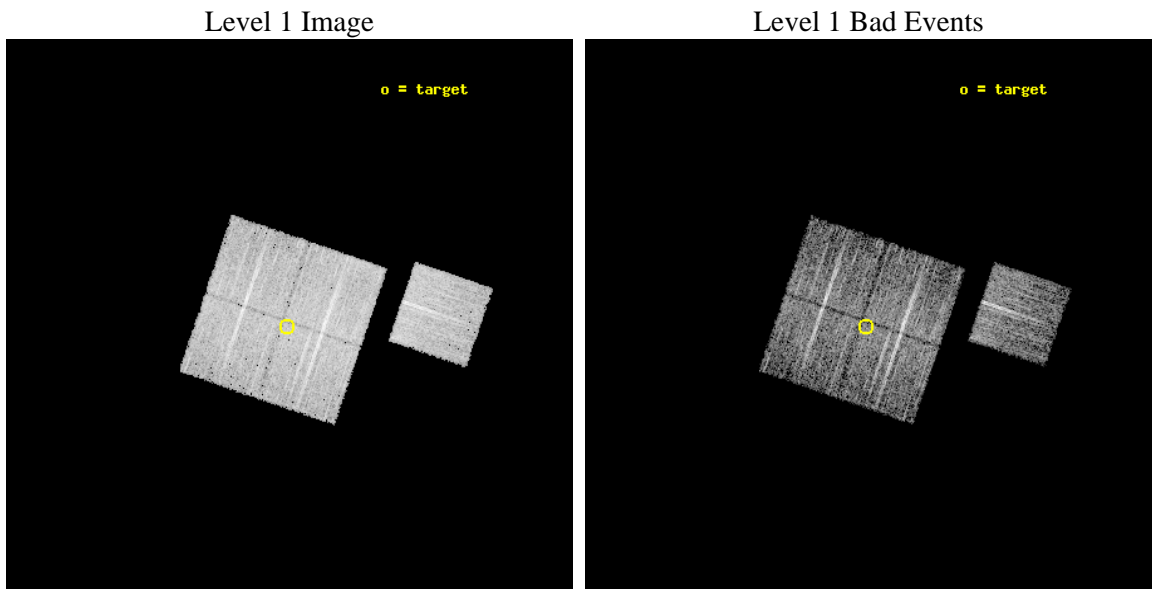
seq_num	800780	Sequence number
obs_id	10419	Observation id
title	A Chandra baseline for galaxy cluster evolution studies	Proposal t
observer	Dr Ben Maughan	Principal investigator
object	A401	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	44.878308	Observer's specified target RA [deg]
dec_targ	13.441336	Observer's specified target Dec [deg]
ra_nom	44.87335505135	Nominal RA [deg]
dec_nom	13.447763230075	Nominal Dec [deg]
roll_nom	108.85983970071	Nominal Roll [deg]
revision	2	Processing version of data
ontime	4777.1000367403	Sum of GTIs [s]
livetime	4714.6837079104	Livetime [s]
ontime0	4773.9590465426	Sum of GTIs [s]
ontime1	4777.1000367403	Sum of GTIs [s]
ontime2	4777.1000367403	Sum of GTIs [s]
ontime3	4777.1000367403	Sum of GTIs [s]
ontime6	4777.1000367403	Sum of GTIs [s]
l2events	25124	Number of level 2 events



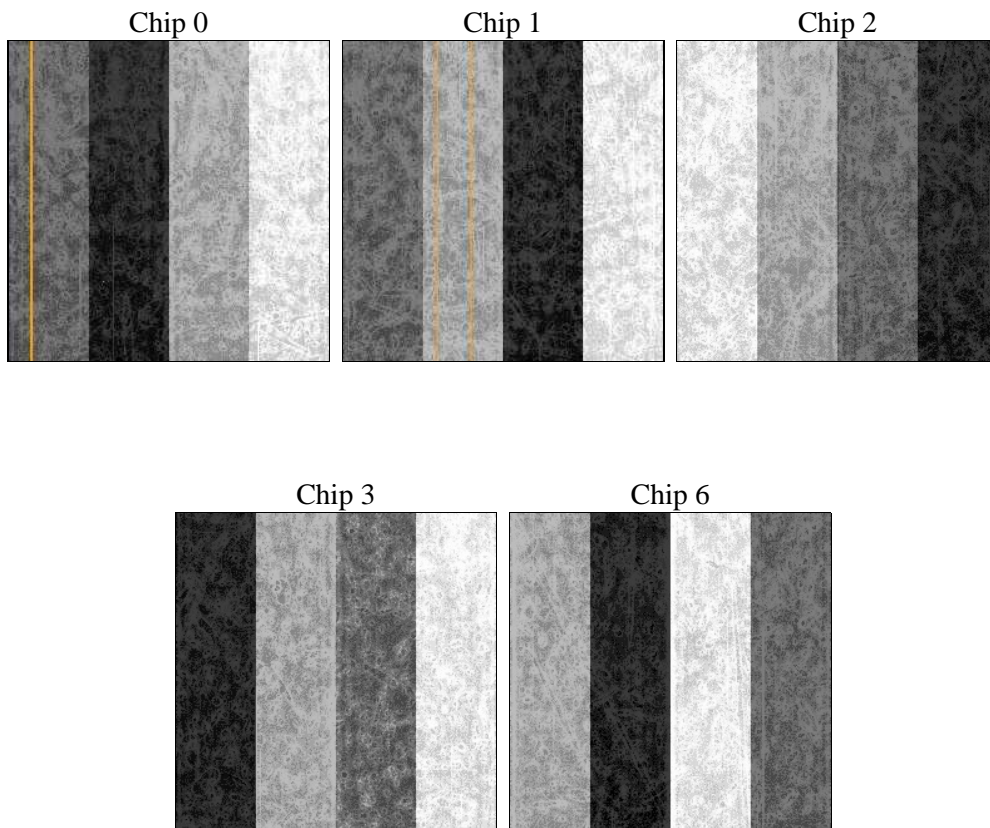
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.174000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	4777.1000367403	Sum of GTIs [s]
caldsver	4.4.10	 	ontime0	4773.9590465426	Sum of GTIs [s]
date	2012-06-09T21:46:58	Date and time of file creation	ontime1	4777.1000367403	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	4777.1000367403	Sum of GTIs [s]
			ontime3	4777.1000367403	Sum of GTIs [s]
			ontime6	4777.1000367403	Sum of GTIs [s]
			l1events	210620	Number of level 1 events

2.1.4 Events

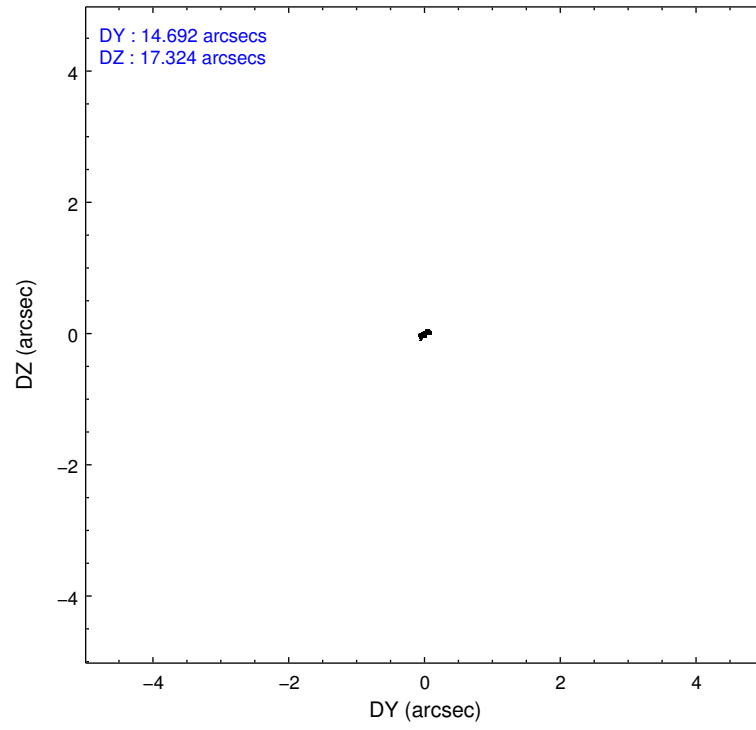
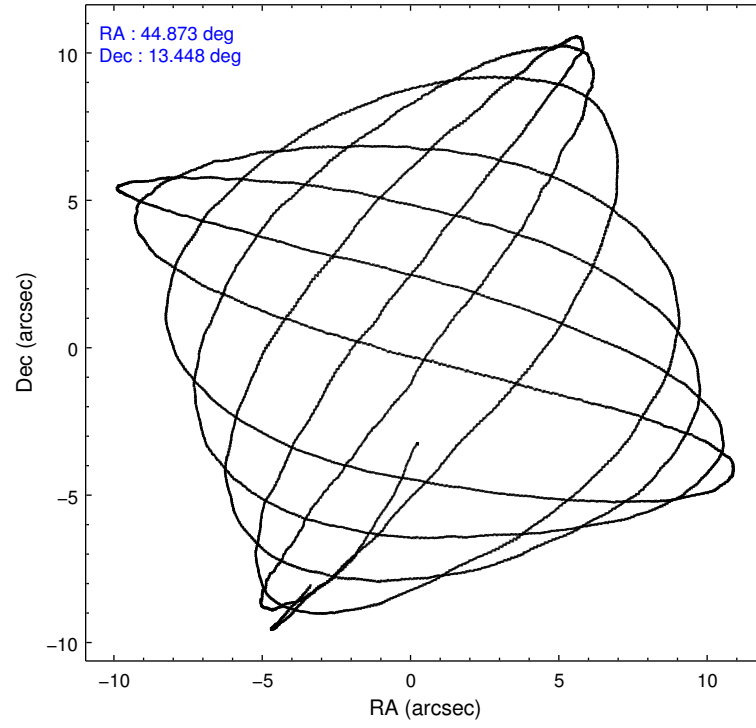
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	38804	39082	47921	41551	43262
rejected events	33948	34207	38689	36908	37616
rejected %	87%	87%	80%	88%	86%

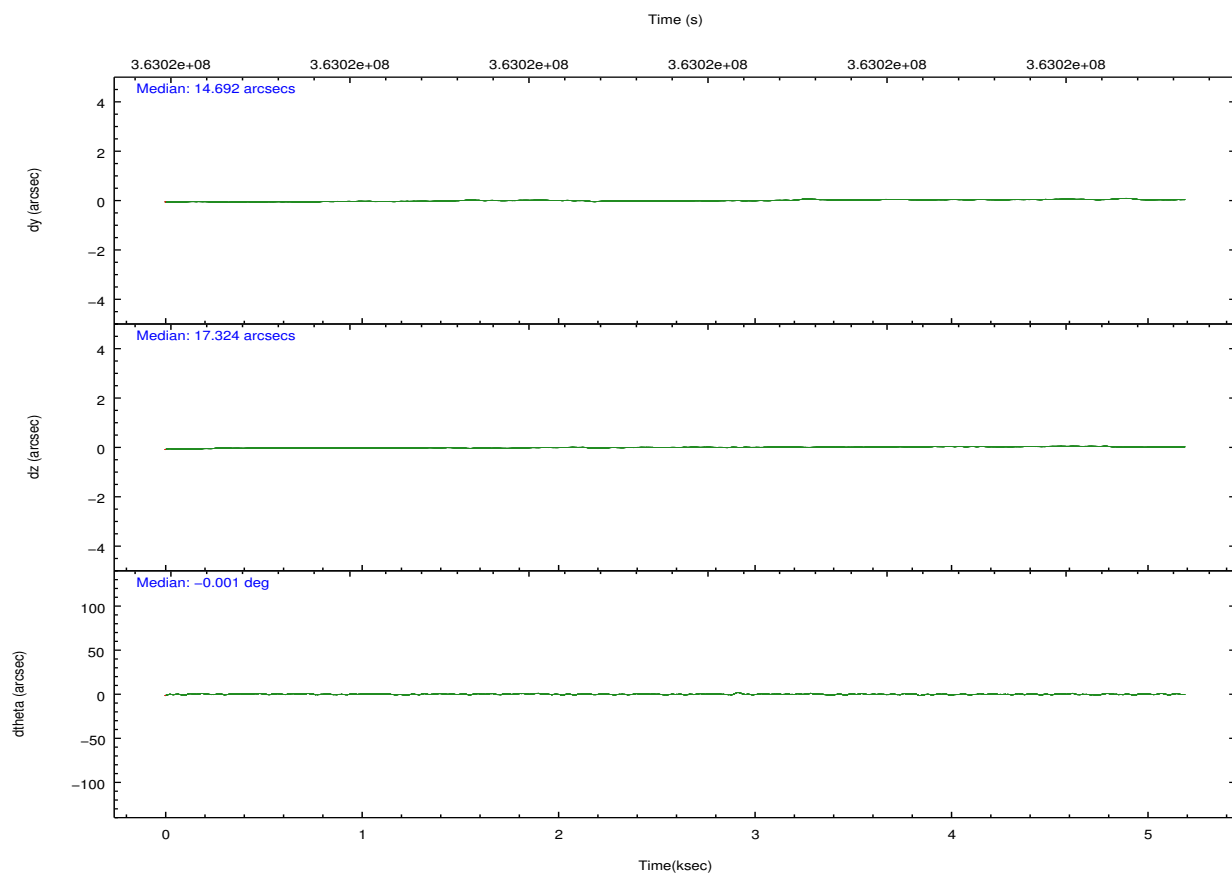
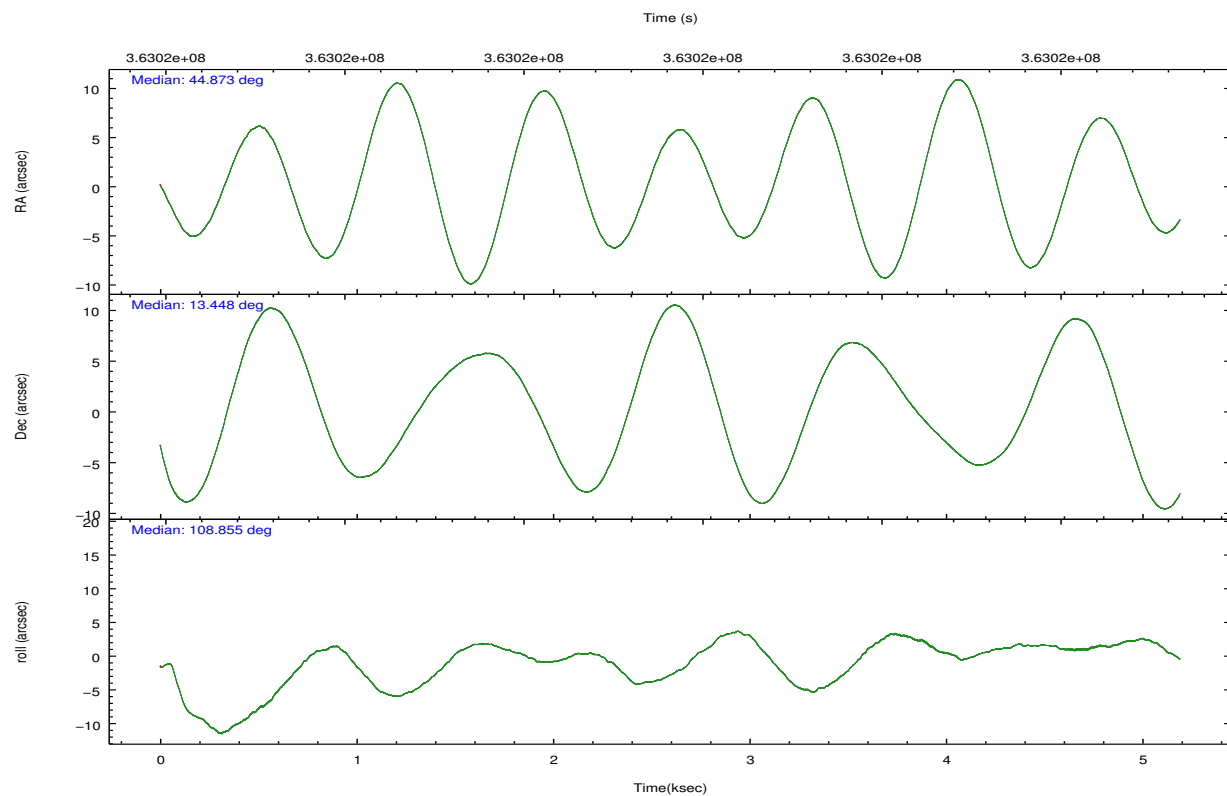
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	1953	1766	5547	1877	2599
	5%	4%	11%	4%	6%
grade 1 events	27	26	42	26	32
	0%	0%	0%	0%	0%
grade 2 events	1102	1172	1495	998	1088
	2%	2%	3%	2%	2%
grade 3 events	453	500	622	434	508
	1%	1%	1%	1%	1%
grade 4 events	477	483	640	480	480
	1%	1%	1%	1%	1%
grade 5 events	1464	1638	1557	1750	1735
	3%	4%	3%	4%	4%
grade 6 events	874	955	934	859	973
	2%	2%	1%	2%	2%
grade 7 events	32454	32542	37084	35127	35847
	83%	83%	77%	84%	82%

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	44.894773	44.87335505134959	CCD I2 on	Y	Y
[deg] Pointing Dec	13.429853	13.44776323007474	CCD I3 on	Y	Y
[deg] Pointing Roll	108.646184	108.8598397007125	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)	363020412.184000	363020036.44899	CCD S5 on	N	N
Observation start date	2009-07-03T14:59:06	2009-07-03T14:53:56	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	363025412.184000	363025649.86177	On-chip summing requested	N	N
Observation end date	2009-07-03T16:22:26	2009-07-03T16:27:29	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



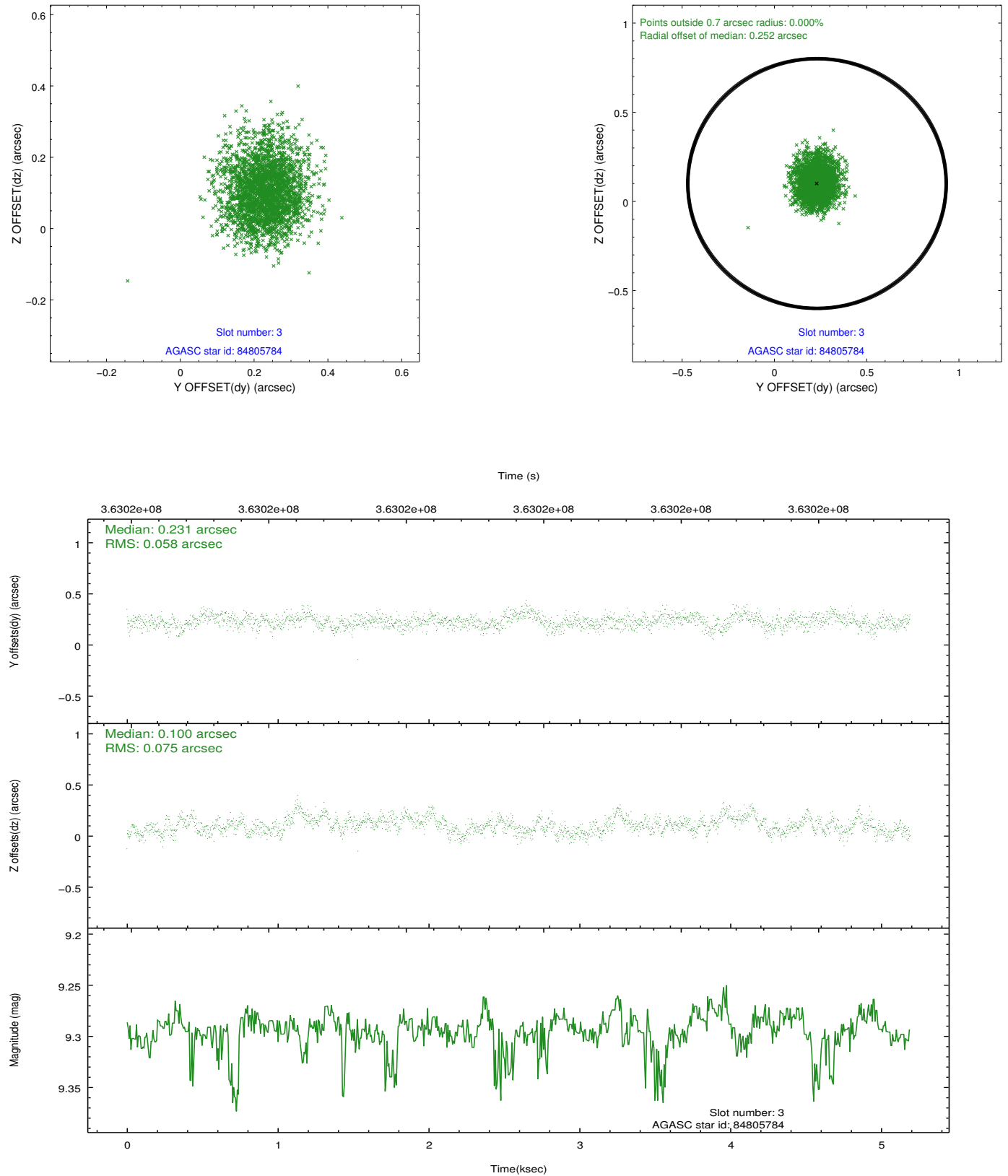


Slot Statistics

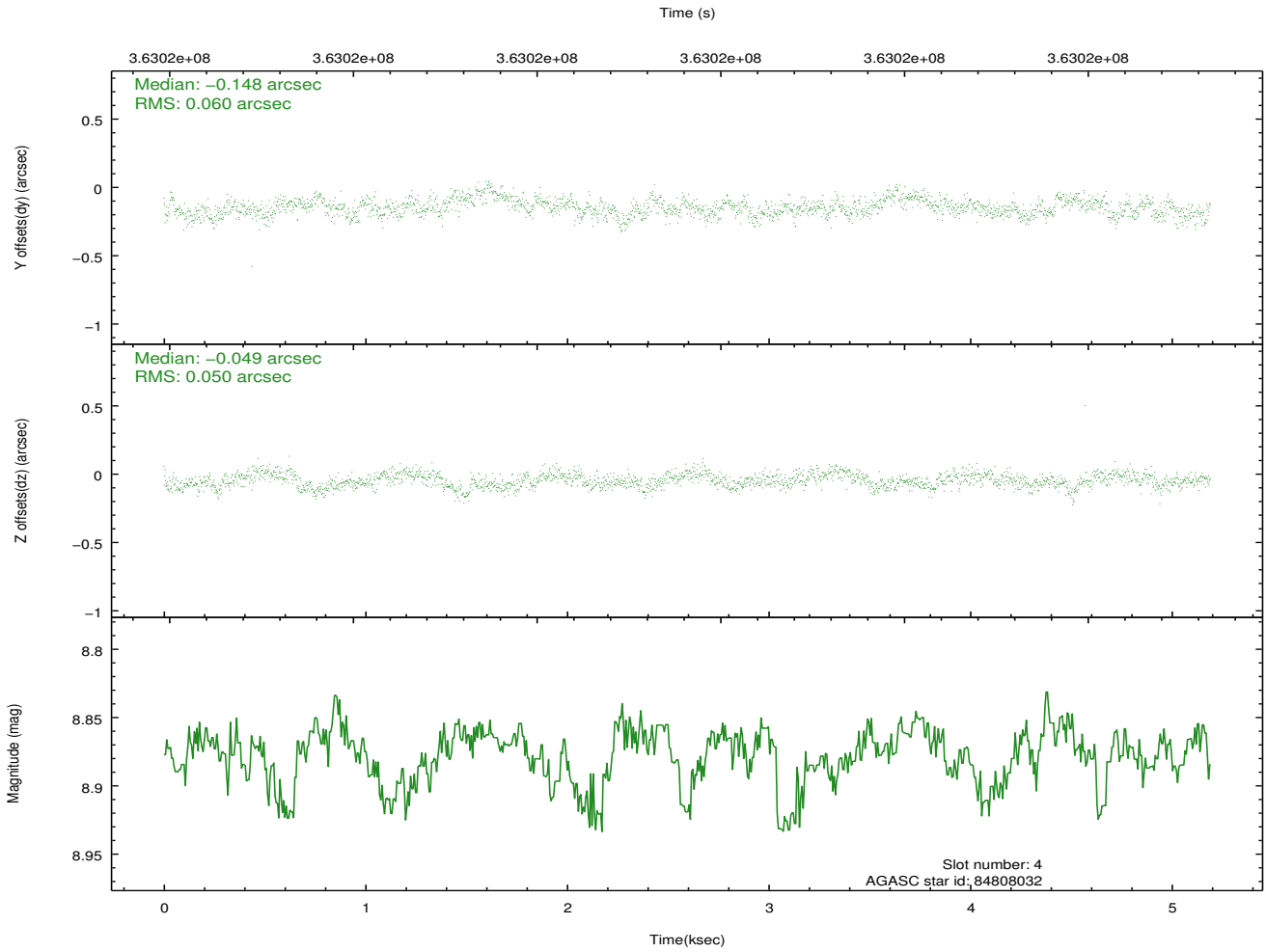
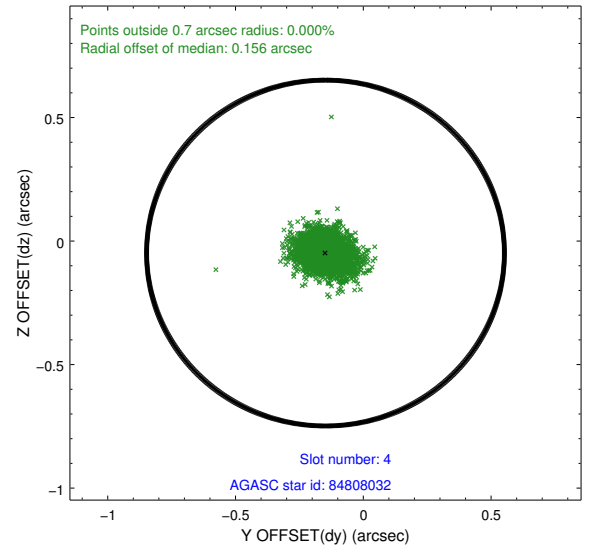
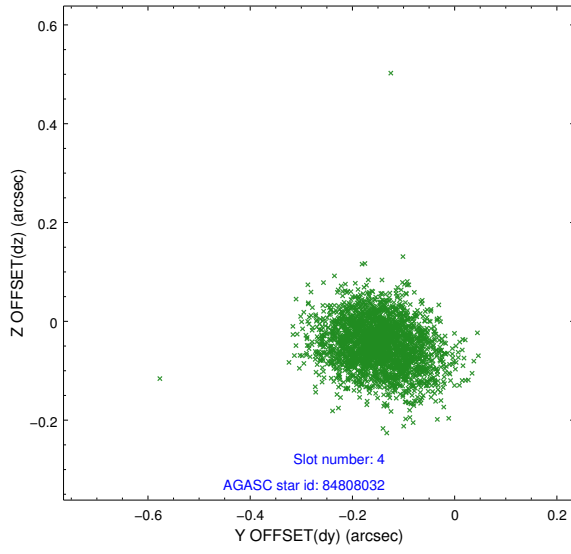
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.01	1267	0.068	-0.022	0.006	0.011	0.000000	0.000000	924.82	-841.02
1	FID	ACIS-I-5	7.01	1265	-0.222	0.071	0.006	0.009	0.000000	0.000000	-1822.89	1056.02
2	FID	ACIS-I-6	7.02	1267	0.063	0.022	0.006	0.011	0.000000	0.000000	389.14	1701.76
3	GUIDE	84805784	9.29	2527	0.231	0.100	0.100	0.166	45.469378	13.038236	-1977.09	-1459.91
4	GUIDE	84808032	8.88	2529	-0.148	-0.049	0.081	0.134	44.912435	14.042740	2070.42	-764.17
5	GUIDE	84808984	8.98	2530	0.105	0.238	0.096	0.153	45.613229	13.454289	-715.90	-2412.98
6	GUIDE	84809856	8.15	2530	0.094	0.026	0.068	0.109	45.191960	12.984820	-1850.56	-477.12
7	GUIDE	84809056	9.71	2529	-0.281	-0.319	0.107	0.173	44.081425	13.762602	2048.16	2309.95

2.4 Star Slots

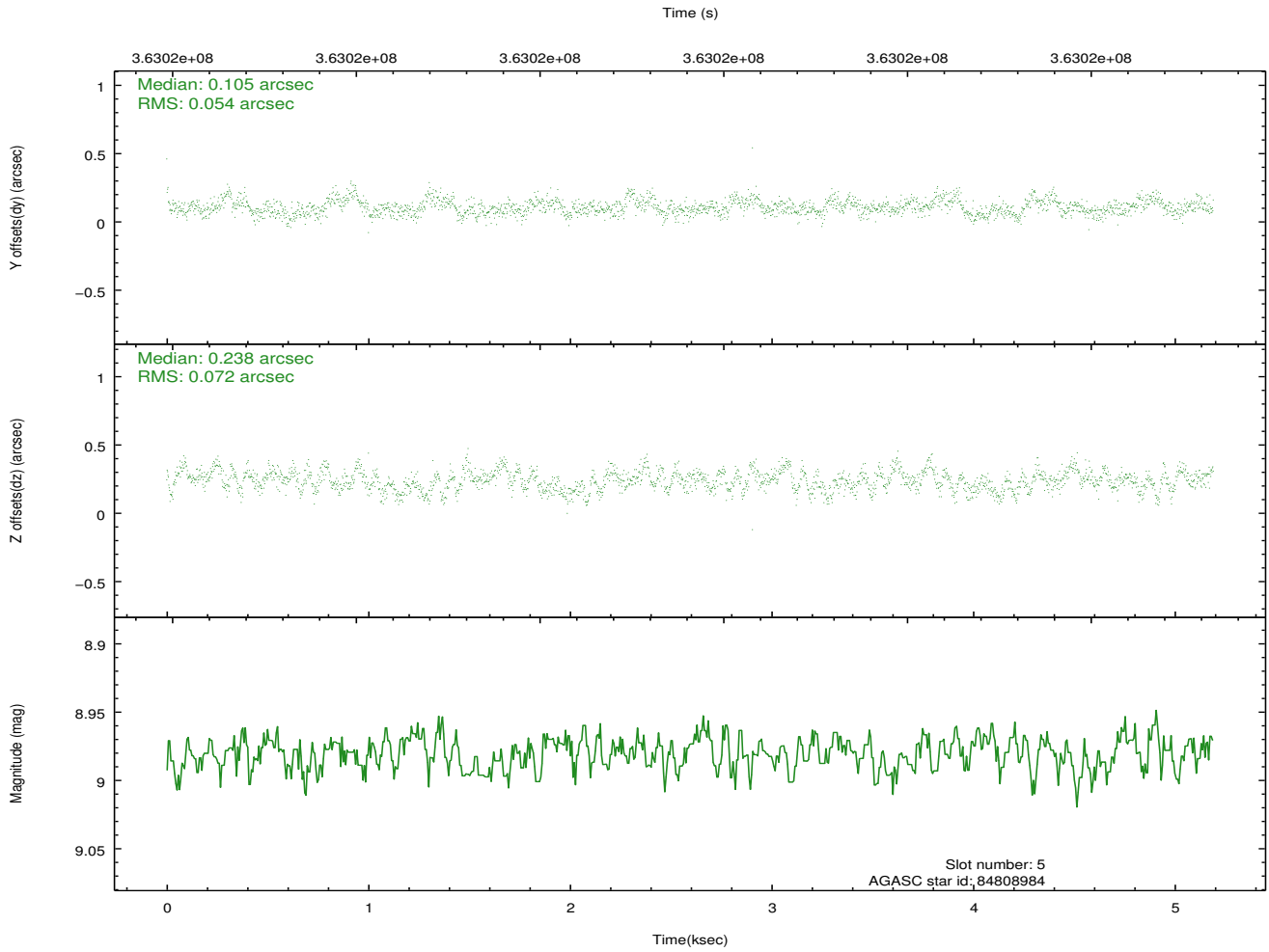
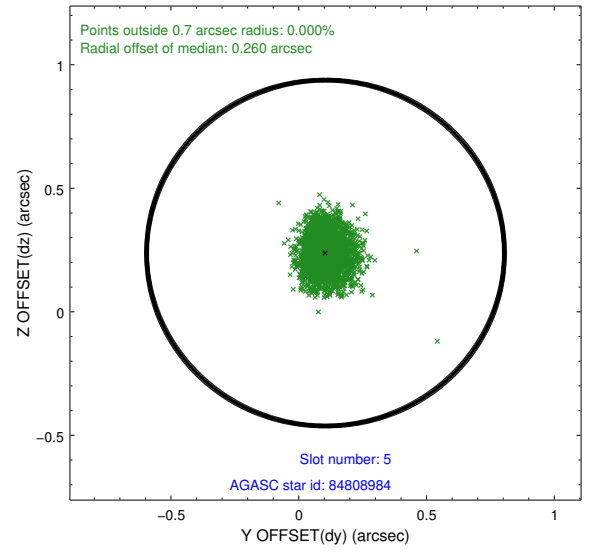
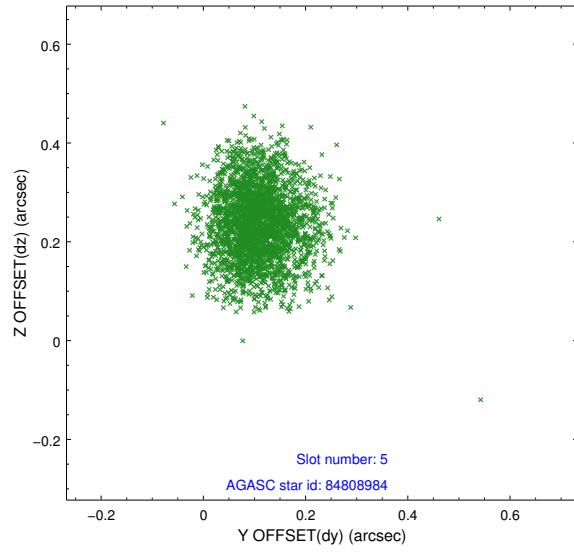
2.4.1 Slot 3



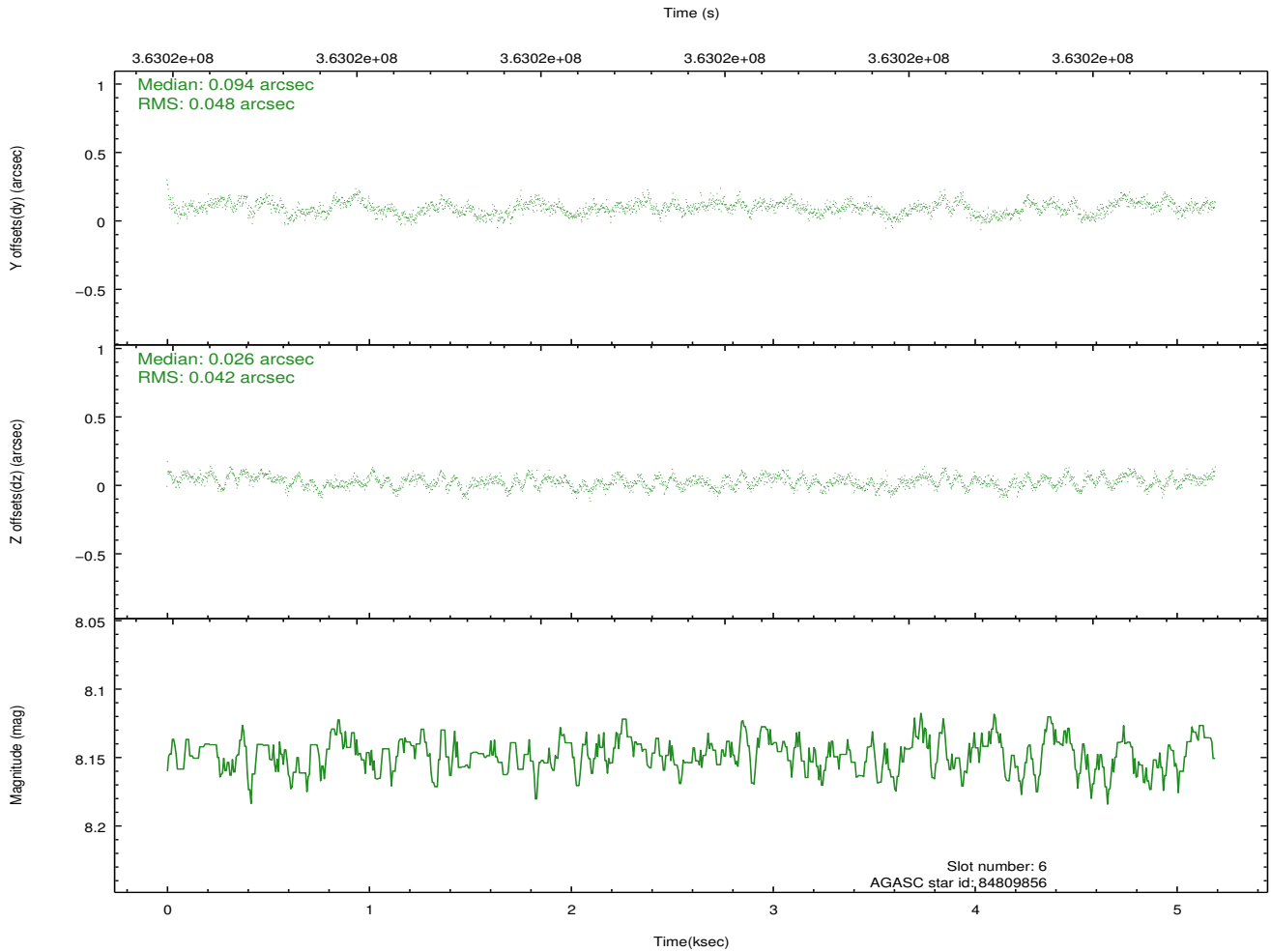
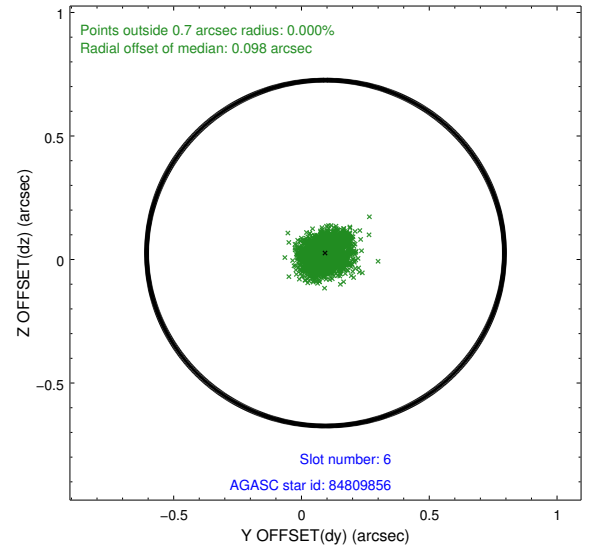
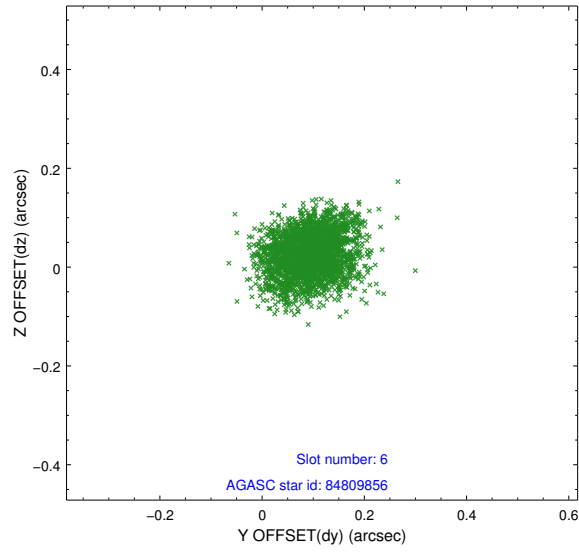
2.4.2 Slot 4



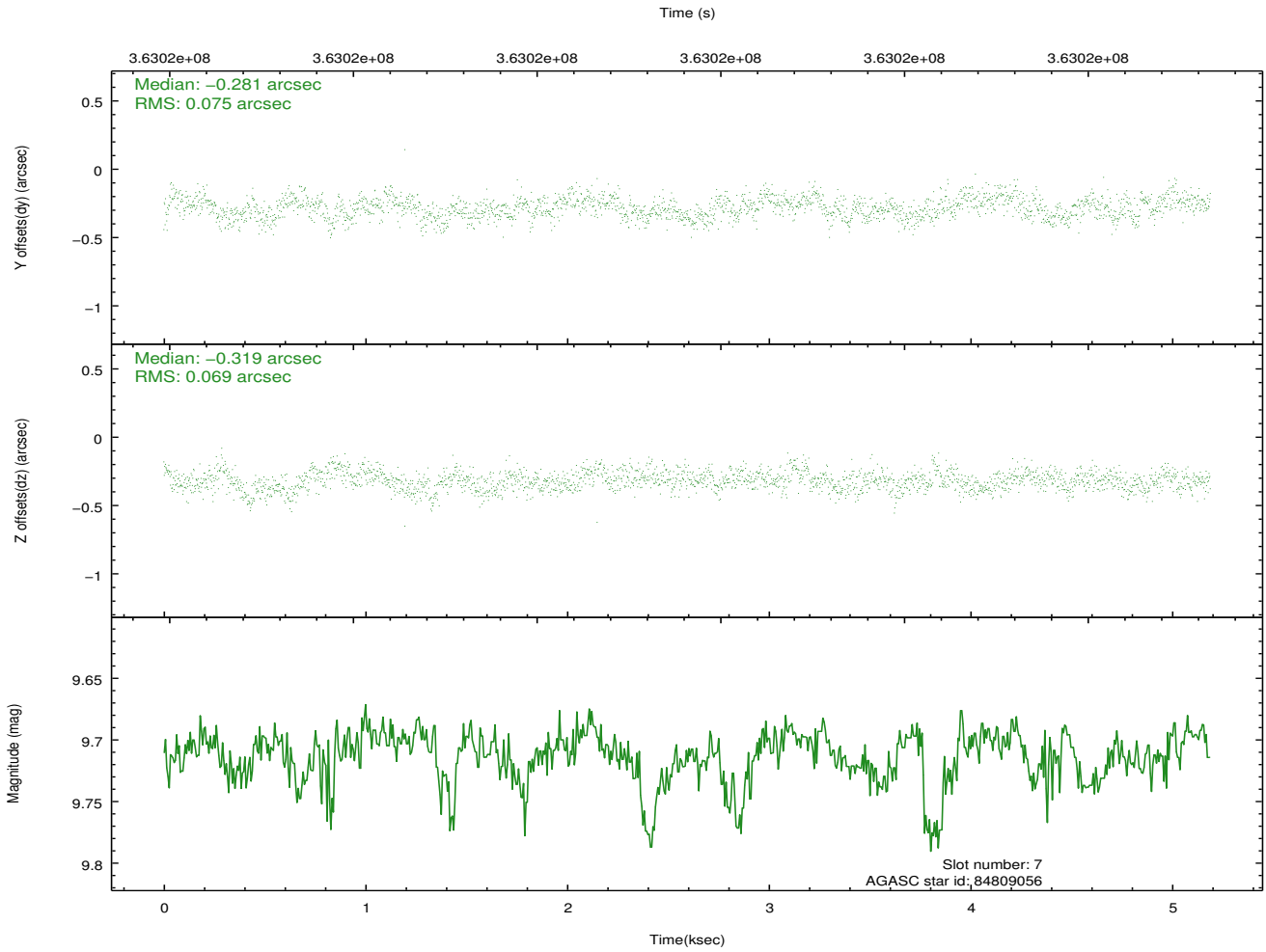
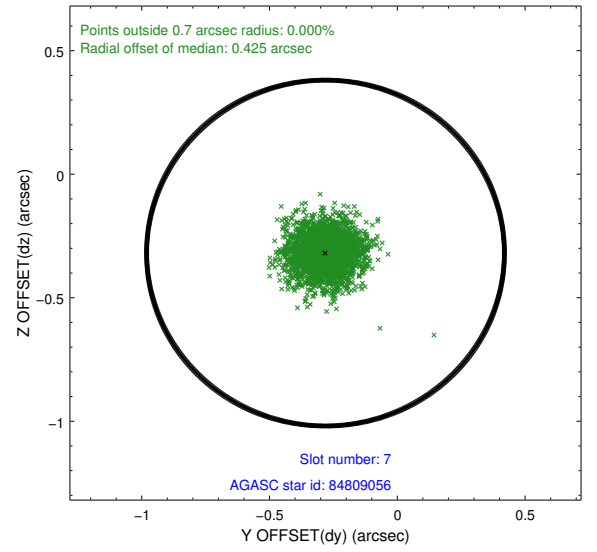
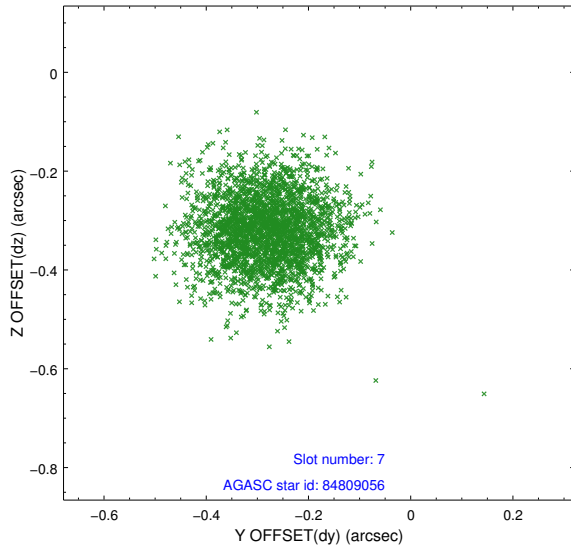
2.4.3 Slot 5



2.4.4 Slot 6

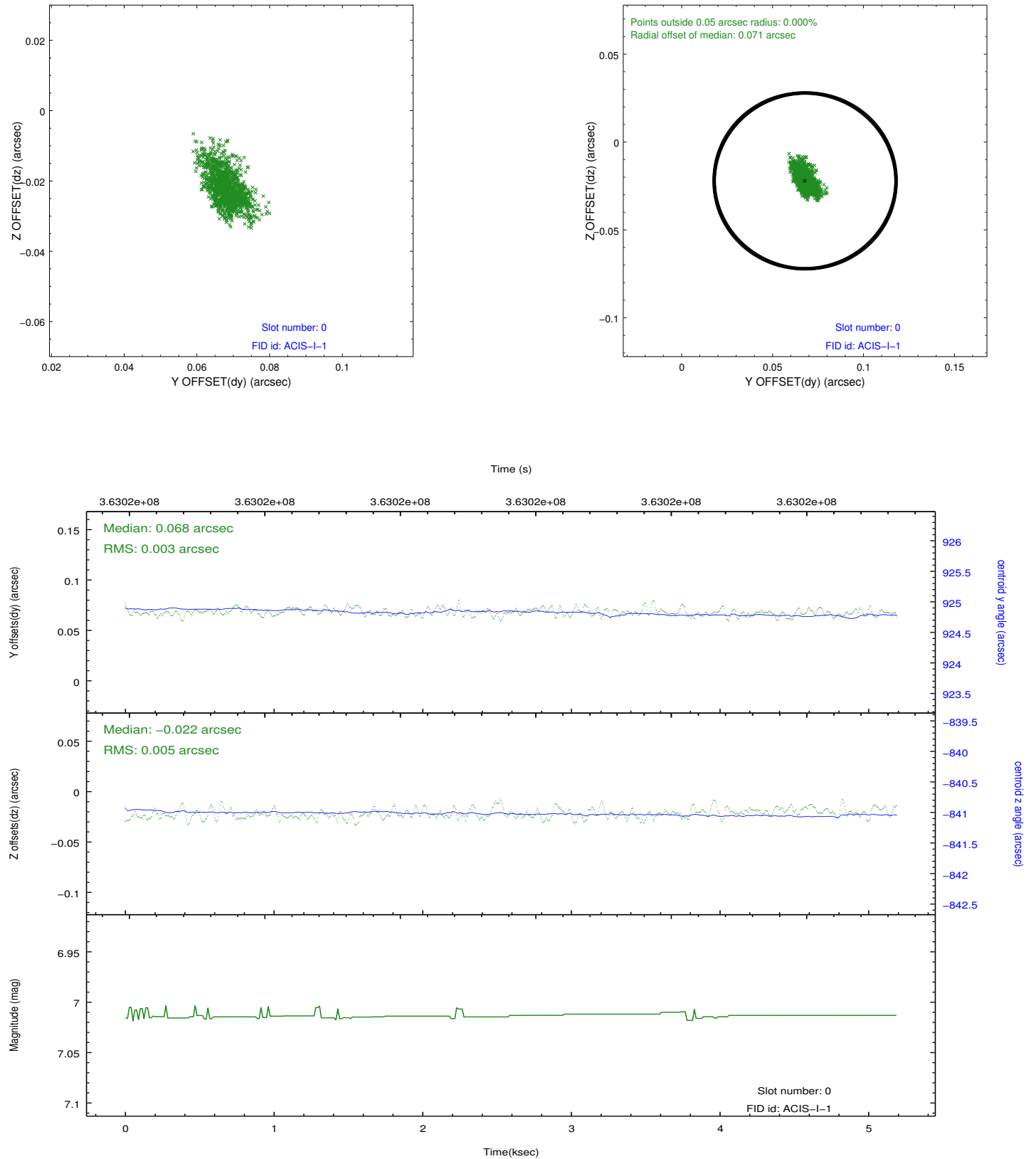


2.4.5 Slot 7

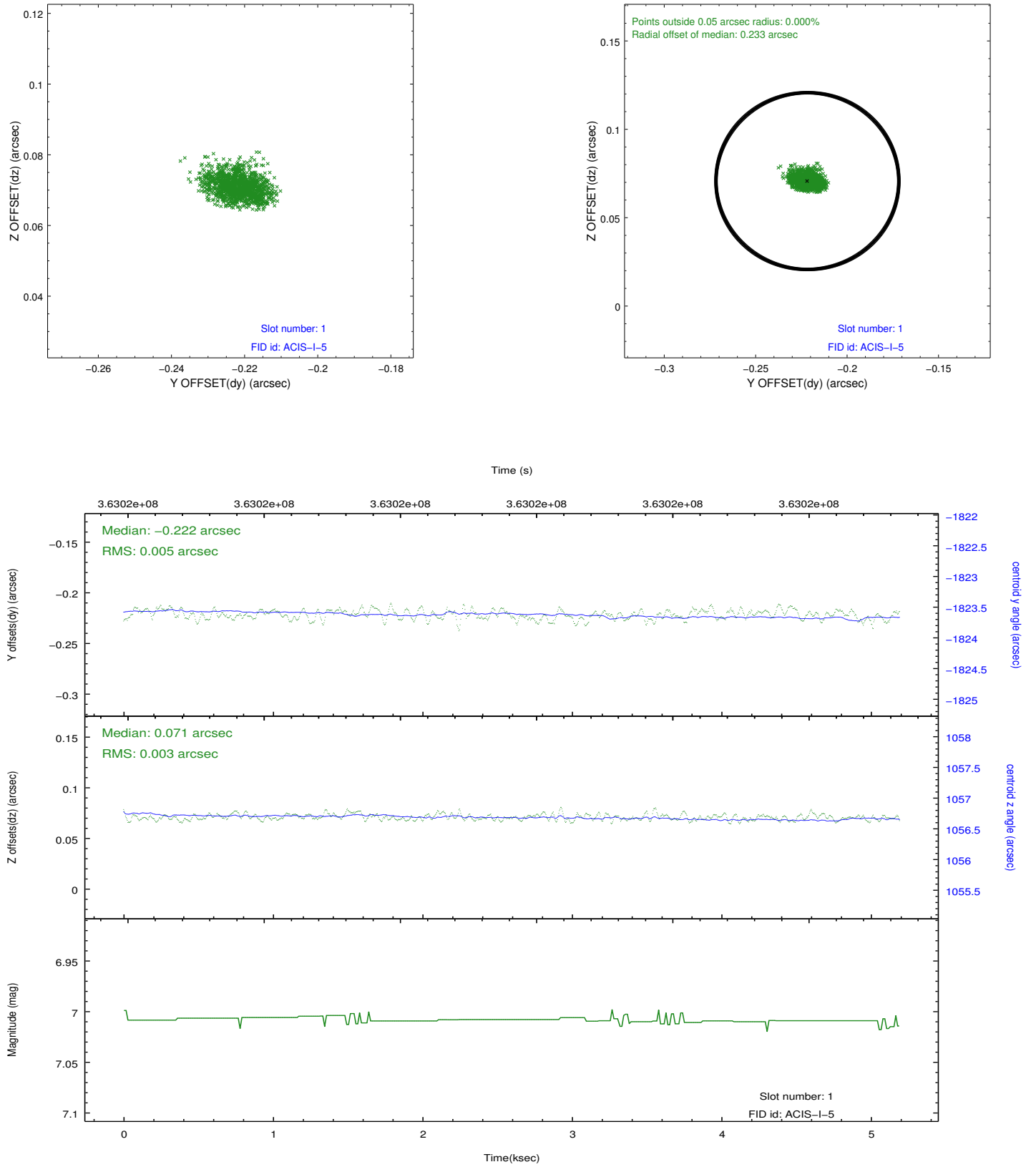


2.5 FID Slots

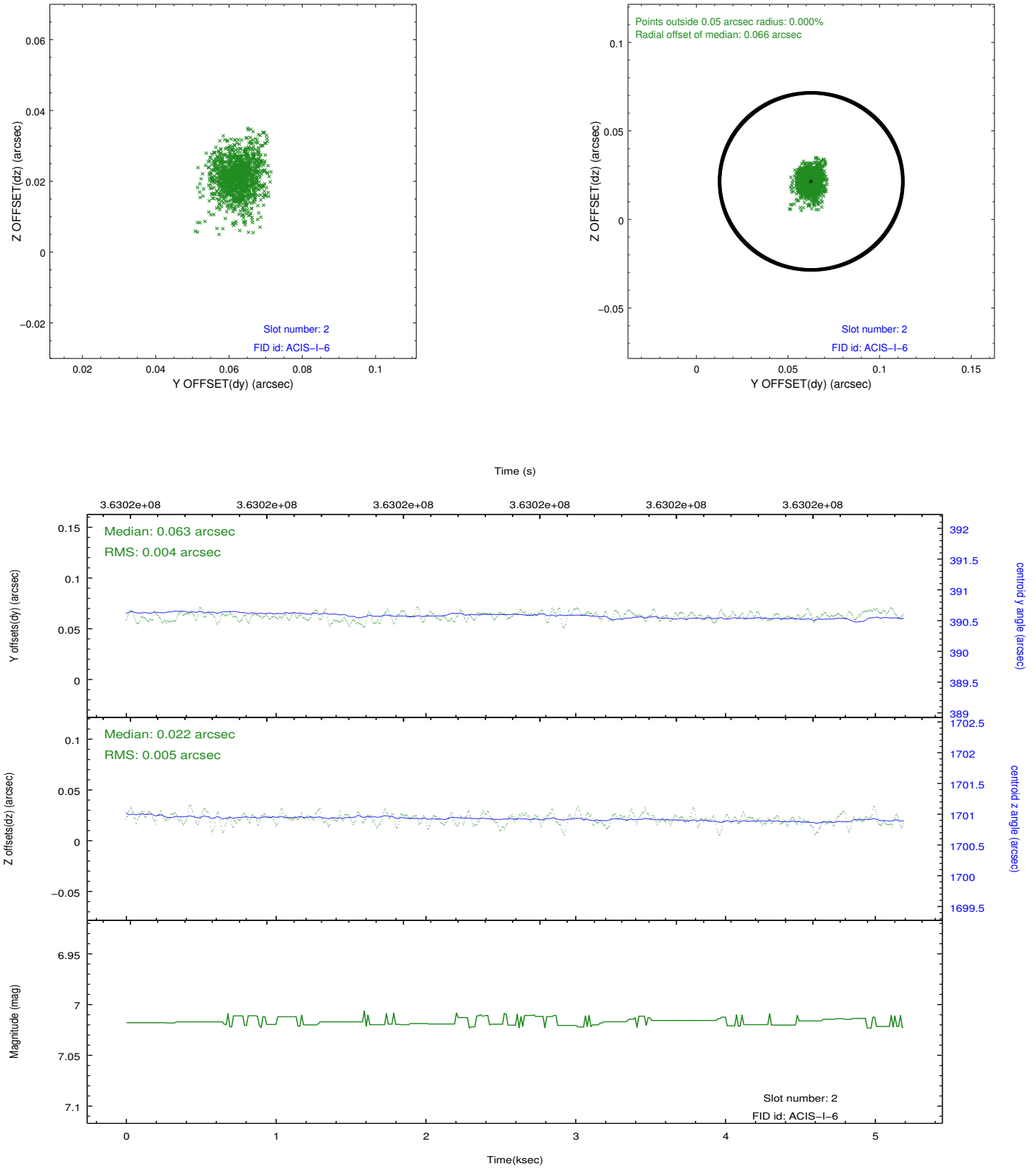
2.5.1 Slot 0



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)	2012.06.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.77710003

A.2 Comments