

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 10421 - L2 Version 2
Chandra X-Ray Center

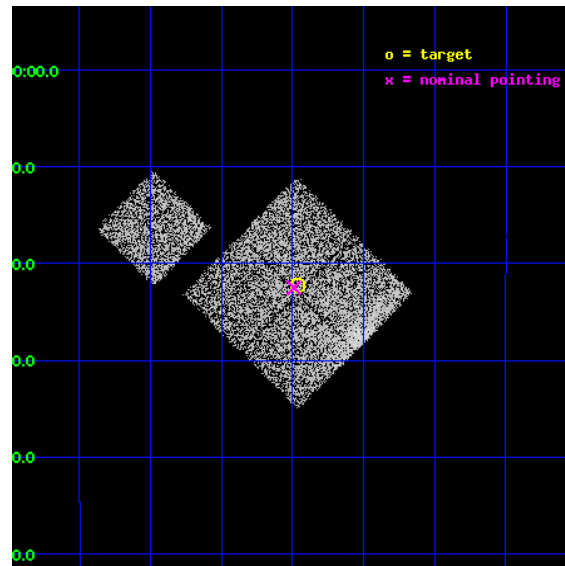
L2 Processing Date : May 30 2012

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

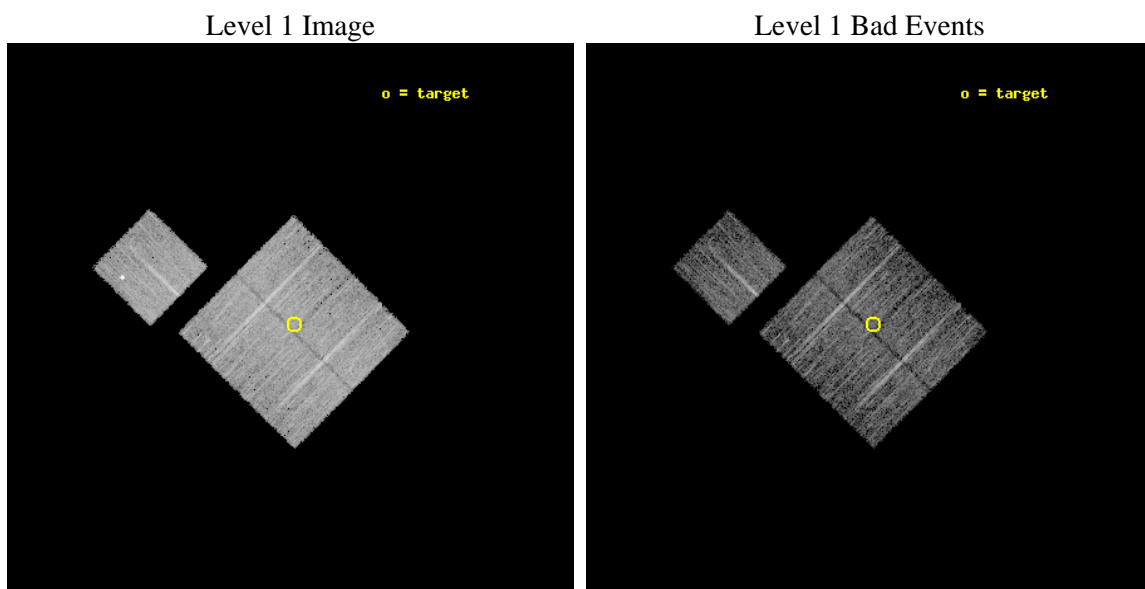
seq_num	800782	Sequence number
obs_id	10421	Observation id
title	A Chandra baseline for galaxy cluster evolution studies	Proposal t
observer	Dr Ben Maughan	Principal investigator
object	A644	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	124.490579	Observer's specified target RA [deg]
dec_targ	-7.371573	Observer's specified target Dec [deg]
ra_nom	124.49770122778	Nominal RA [deg]
dec_nom	-7.3753550094785	Nominal Dec [deg]
roll_nom	314.70954322555	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5152.2000396252	Sum of GTIs [s]
livetime	5084.882753113	Livetime [s]
ontime0	5152.2000396252	Sum of GTIs [s]
ontime1	5152.2000396252	Sum of GTIs [s]
ontime2	5149.0590093732	Sum of GTIs [s]
ontime3	5152.2000396252	Sum of GTIs [s]
ontime6	5152.2000396252	Sum of GTIs [s]
l2events	20616	Number of level 2 events



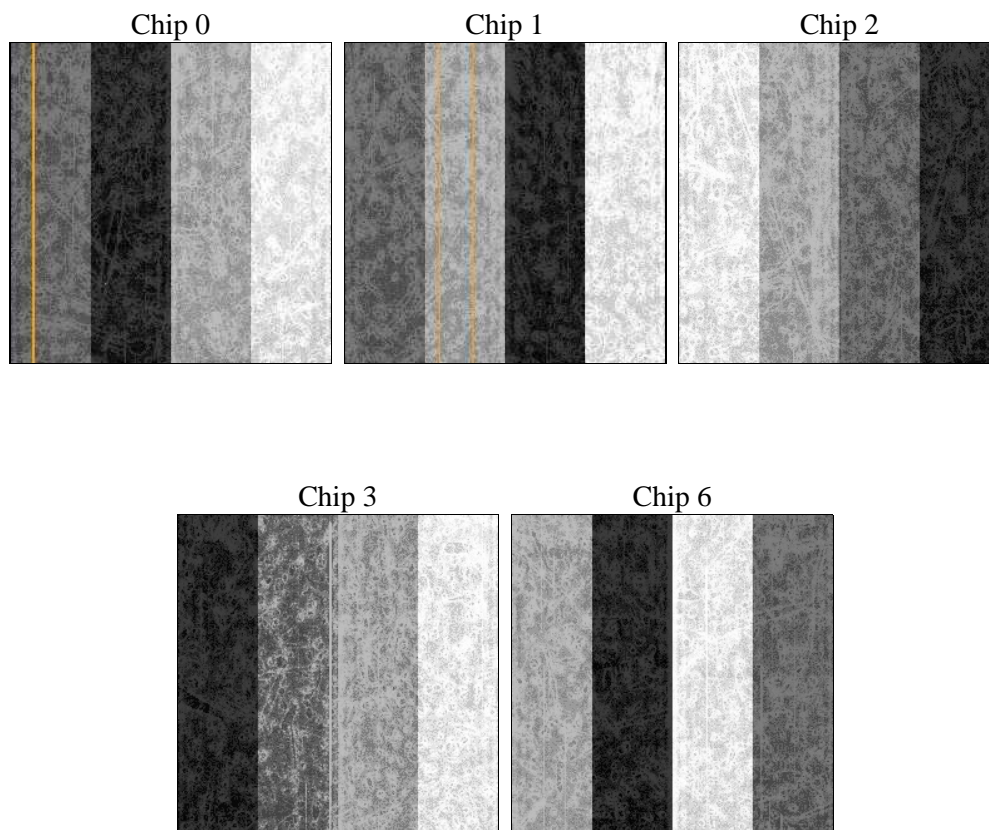
2 OBI

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	5152.2000396252	Sum of GTIs [s]
caldsver	4.4.9	 	ontime0	5152.2000396252	Sum of GTIs [s]
date	2012-05-30T23:46:18	Date and time of file creation	ontime1	5152.2000396252	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	5149.0590093732	Sum of GTIs [s]
			ontime3	5152.2000396252	Sum of GTIs [s]
			ontime6	5152.2000396252	Sum of GTIs [s]
			l1events	264238	Number of level 1 events

2.1.4 Events

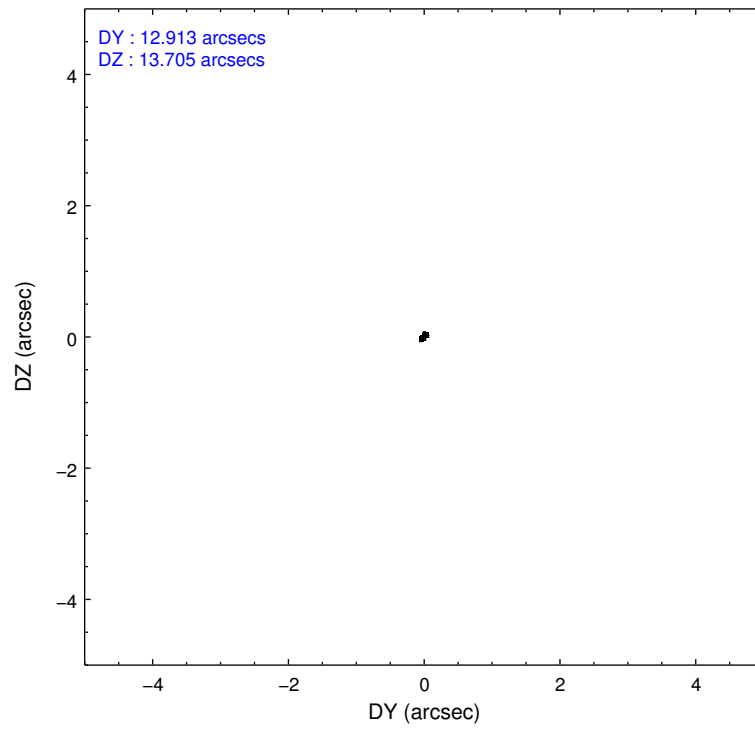
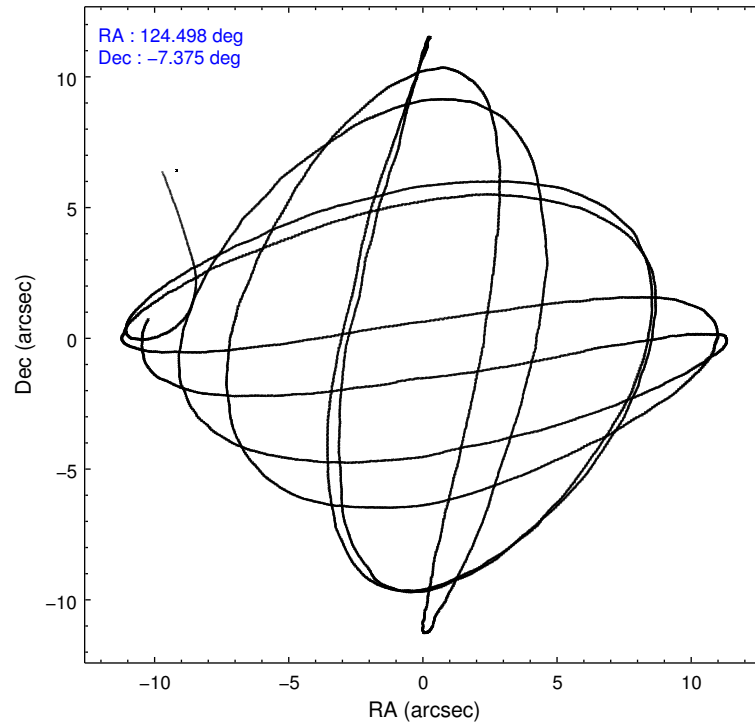
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	50406	51530	55717	51787	54798
rejected events	45231	45517	51239	47495	48738
rejected %	89%	88%	91%	91%	88%

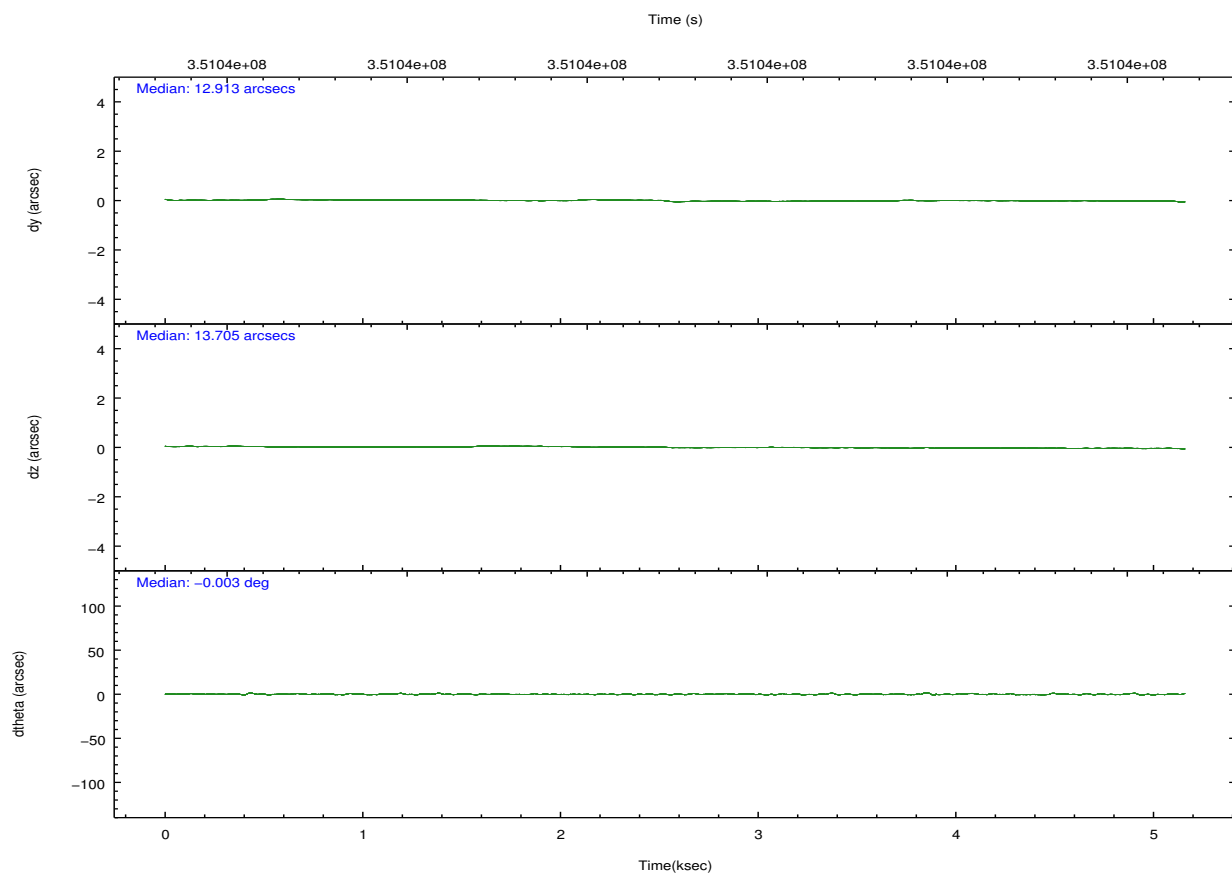
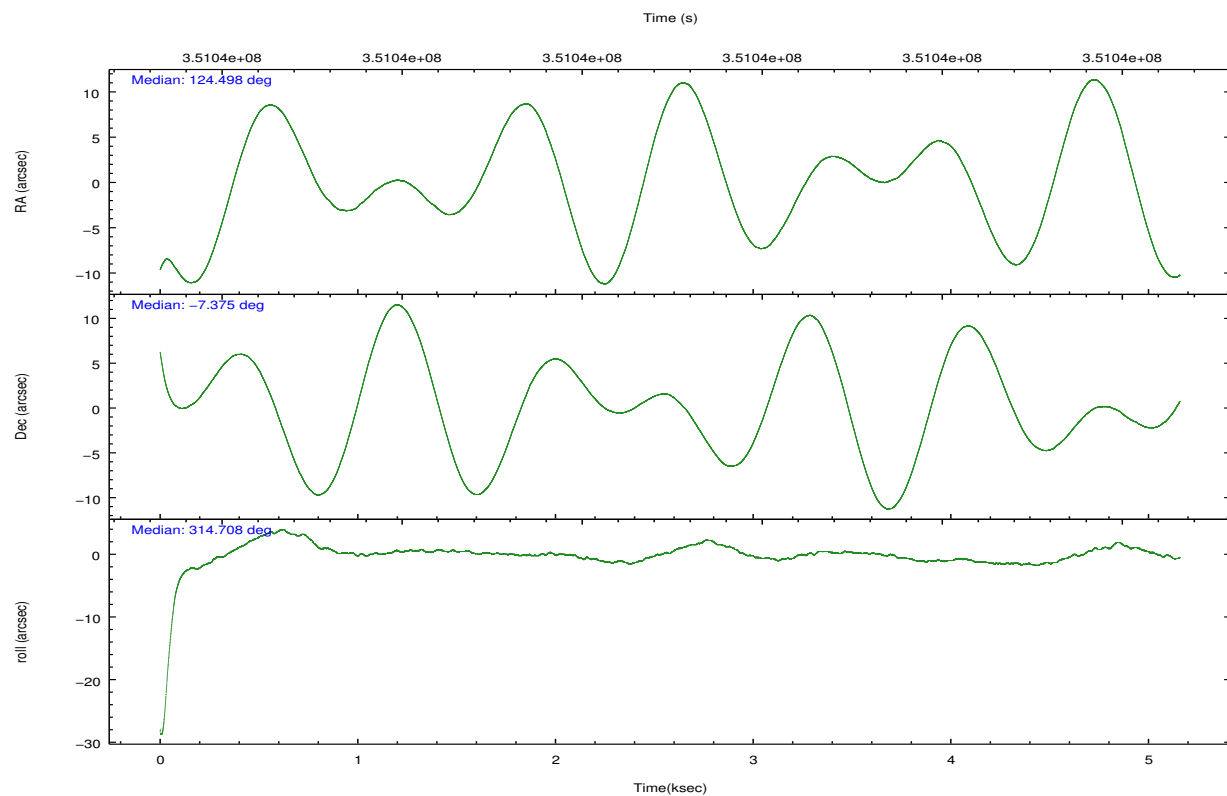
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	2558	3038	1942	1835	3700
	5%	5%	3%	3%	6%
grade 1 events	37	36	31	35	57
	0%	0%	0%	0%	0%
grade 2 events	1359	1524	1277	1075	1253
	2%	2%	2%	2%	2%
grade 3 events	635	690	600	584	594
	1%	1%	1%	1%	1%
grade 4 events	585	626	597	619	622
	1%	1%	1%	1%	1%
grade 5 events	1996	2003	1804	2295	2227
	3%	3%	3%	4%	4%
grade 6 events	1068	1228	997	1104	1168
	2%	2%	1%	2%	2%
grade 7 events	42168	42385	48469	44240	45177
	83%	82%	86%	85%	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	124.471002	124.4977012277784	CCD I2 on	Y	Y
[deg] Pointing Dec	-7.368223	-7.375355009478457	CCD I3 on	Y	Y
[deg] Pointing Roll	314.497493	314.7095432255451	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)	351035071.184000	351033551.57724	CCD S5 on	N	N
Observation start date	2009-02-14T21:43:25	2009-02-14T21:19:11	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	351040071.184000	351040797.8151	On-chip summing requested	N	N
Observation end date	2009-02-14T23:06:45	2009-02-14T23:19:57	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



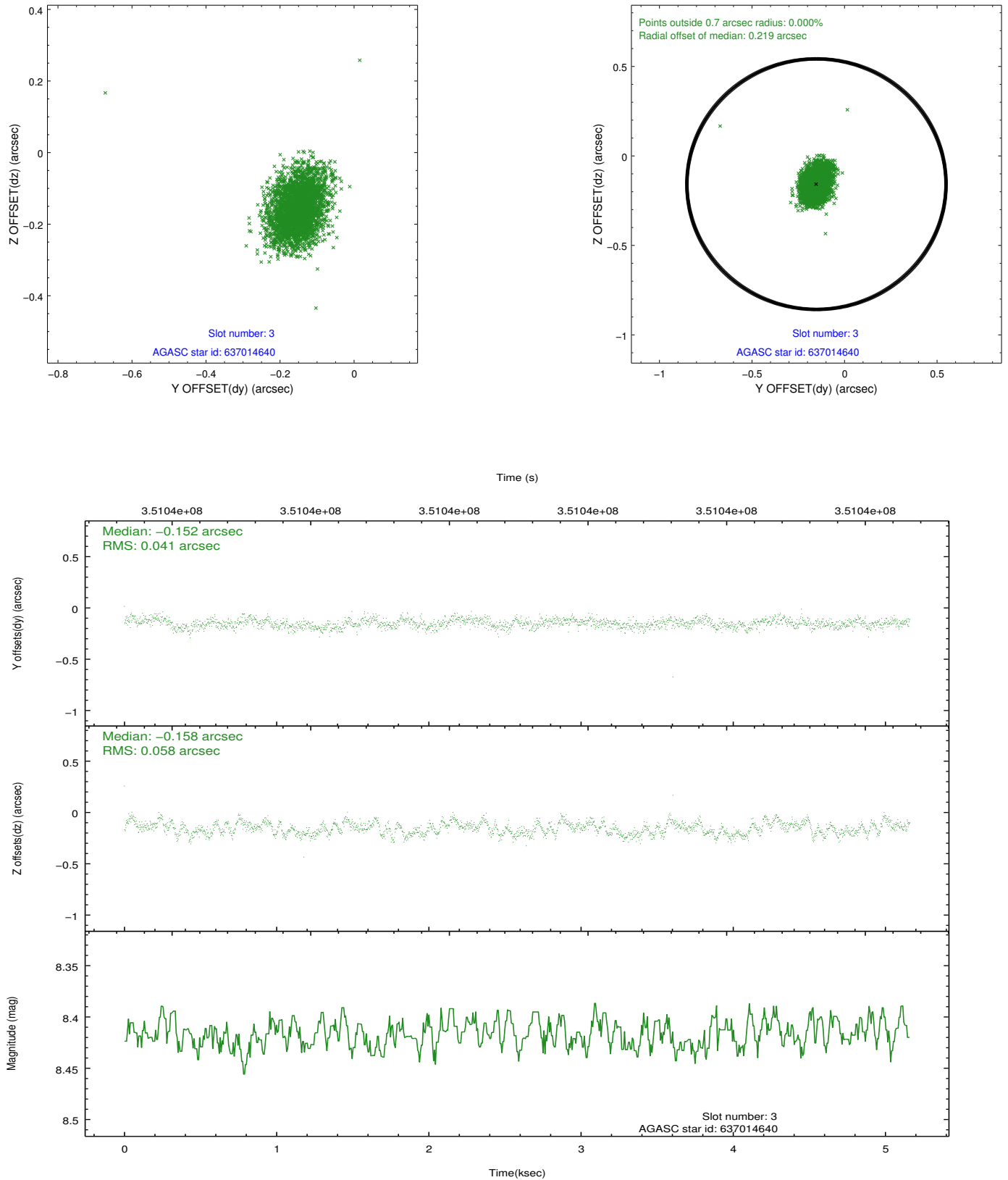


Slot Statistics

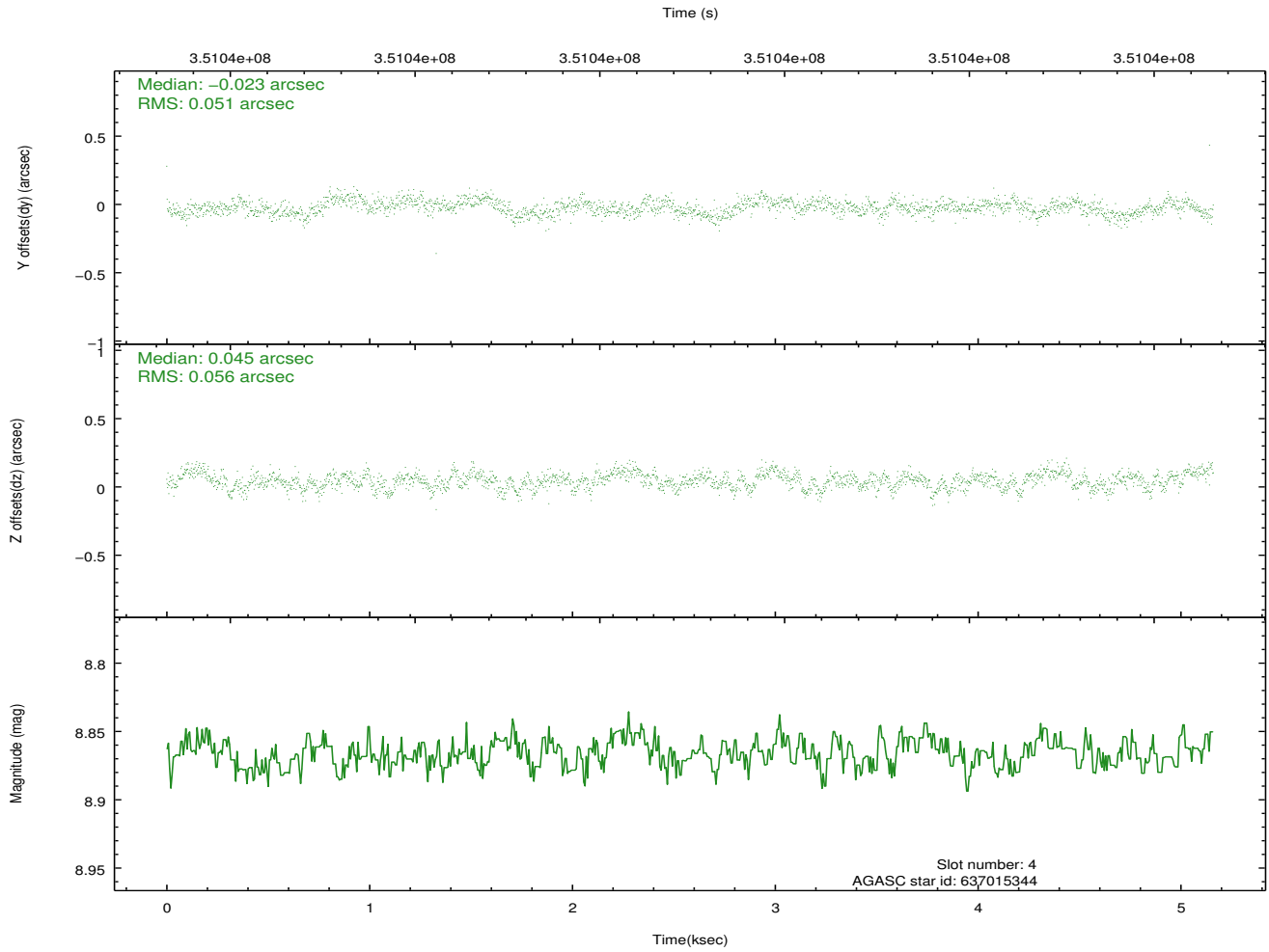
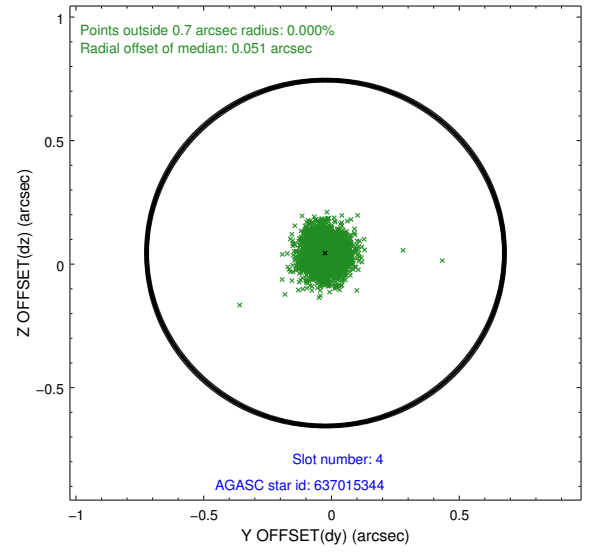
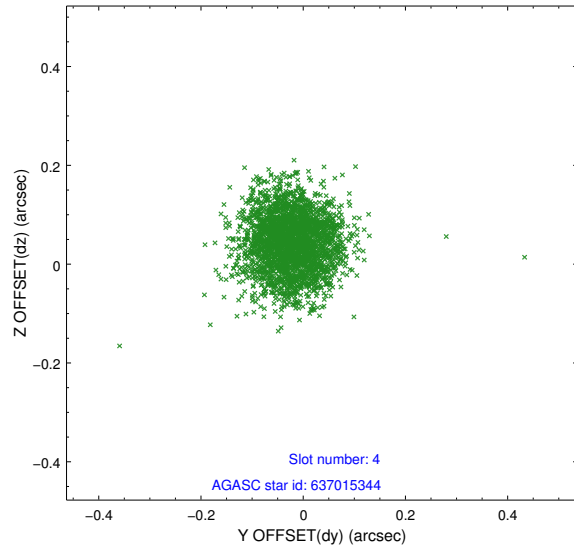
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.09	1259	0.042	0.011	0.006	0.011	0.000000	0.000000	926.66	-837.25
1	FID	ACIS-I-5	7.08	1259	-0.205	0.053	0.006	0.011	0.000000	0.000000	-1821.07	1059.66
2	FID	ACIS-I-6	7.08	1258	0.072	0.006	0.007	0.012	0.000000	0.000000	390.92	1705.48
3	GUIDE	637014640	8.42	2517	-0.152	-0.158	0.074	0.122	124.901530	-7.342721	1012.89	1160.50
4	GUIDE	637015344	8.87	2517	-0.023	0.045	0.080	0.128	124.085835	-7.189754	-1421.01	-530.59
5	GUIDE	637022800	8.21	2518	-0.011	0.067	0.063	0.102	123.882296	-7.124417	-2098.99	-885.73
6	GUIDE	711329976	9.39	2515	0.105	0.061	0.124	0.188	124.662593	-7.893879	1828.58	-839.22
7	GUIDE	711335880	7.90	2517	0.083	-0.009	0.067	0.106	124.602828	-7.571278	852.37	-176.95

2.4 Star Slots

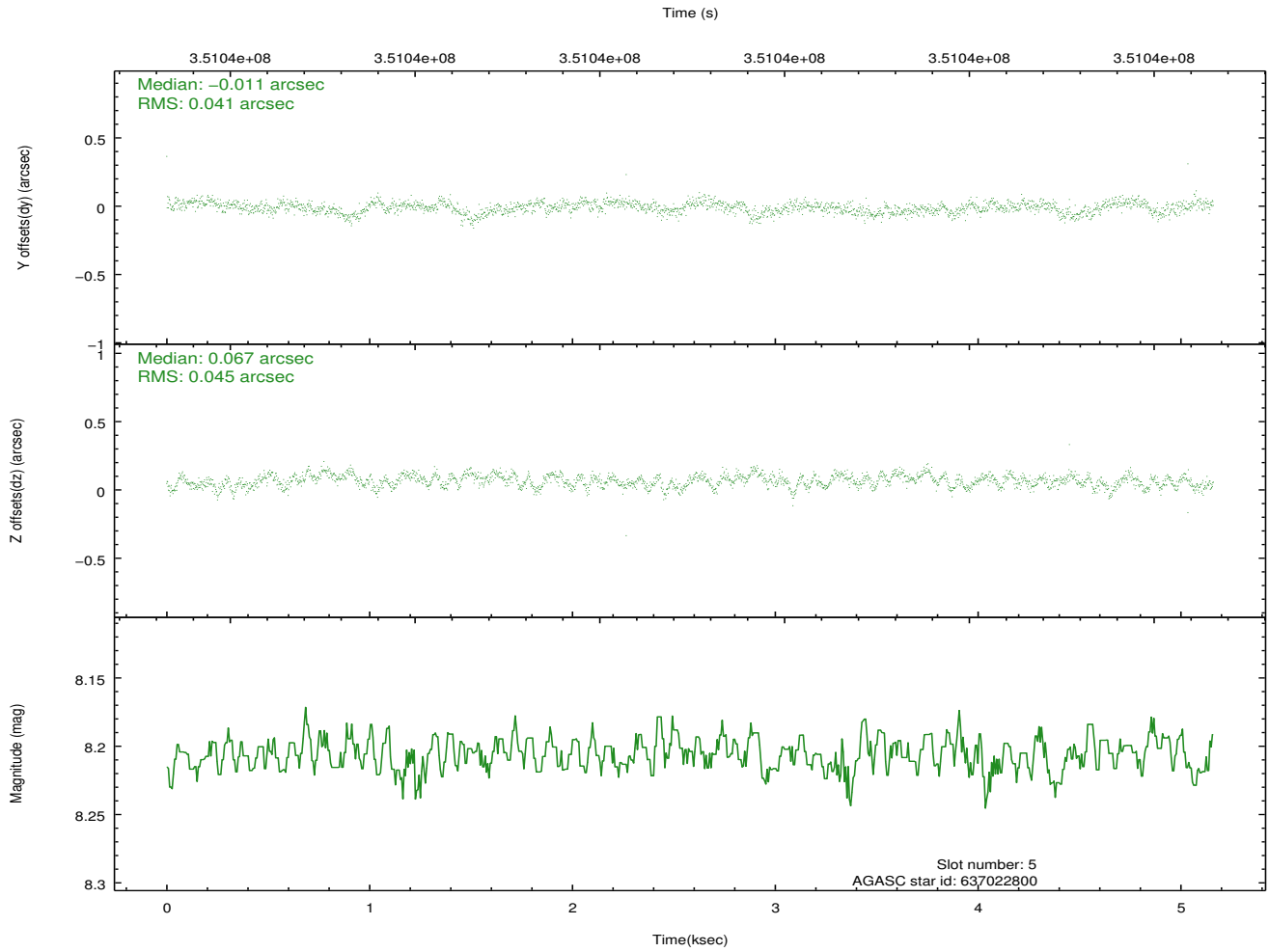
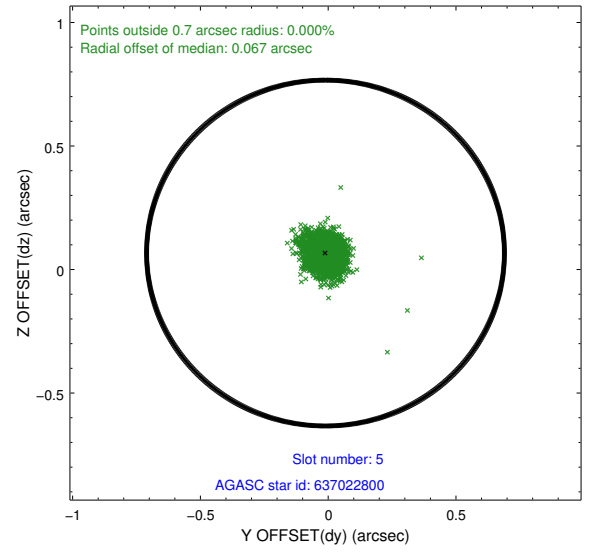
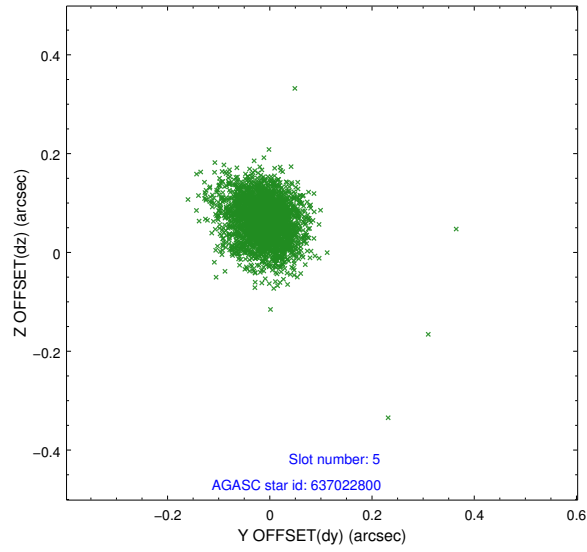
2.4.1 Slot 3



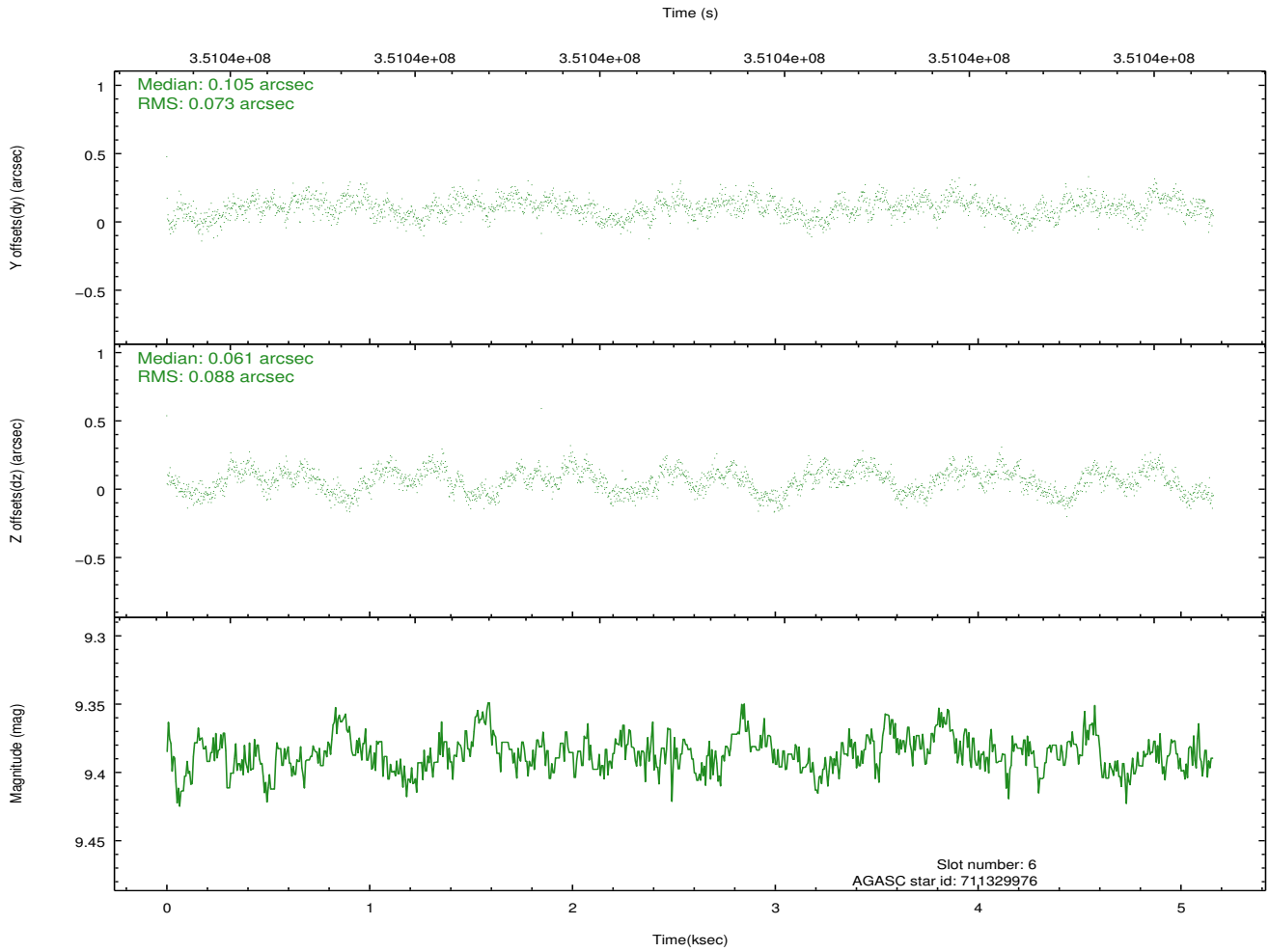
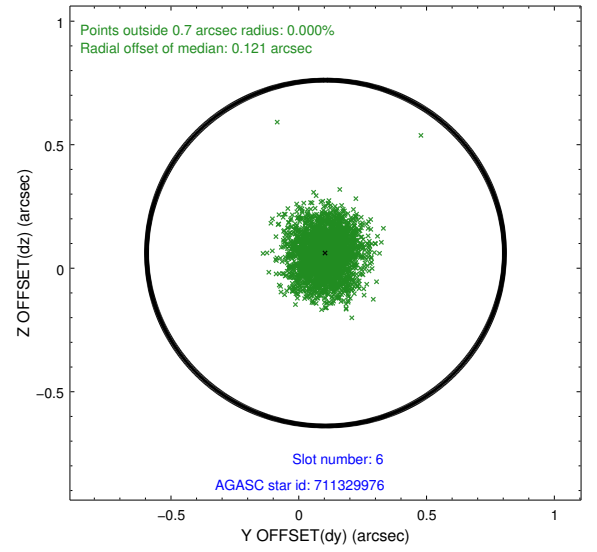
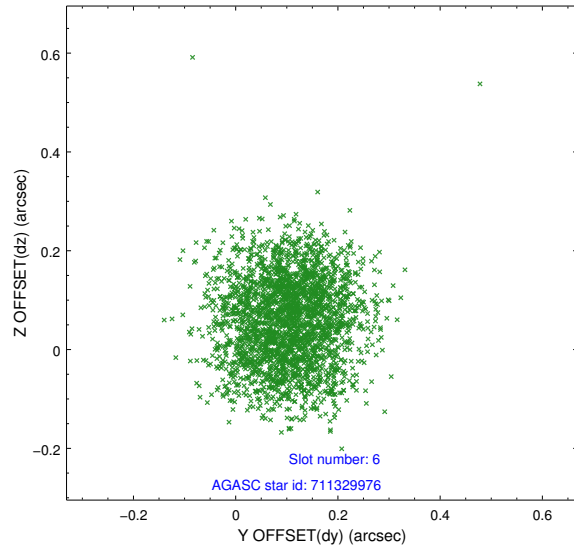
2.4.2 Slot 4



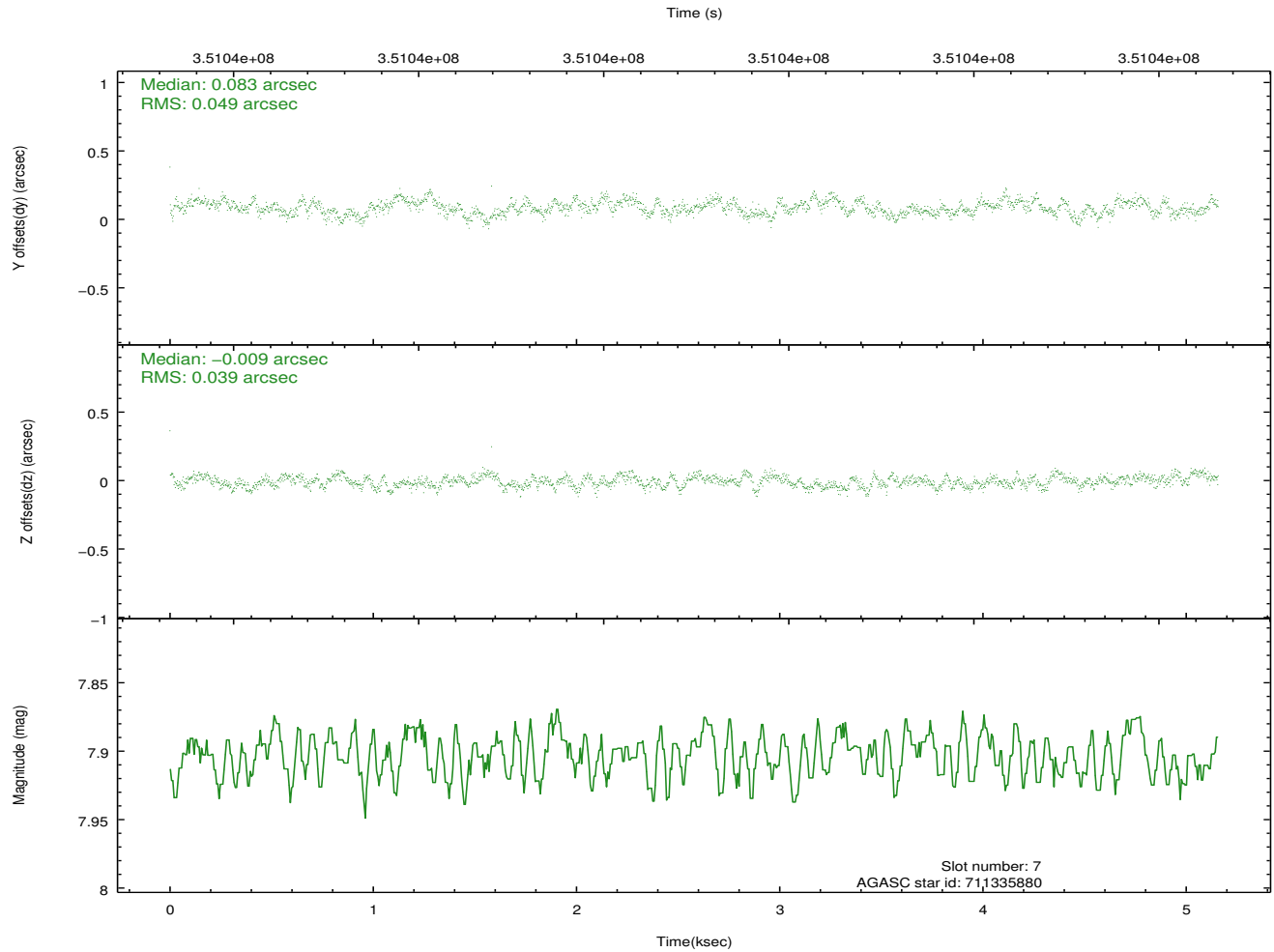
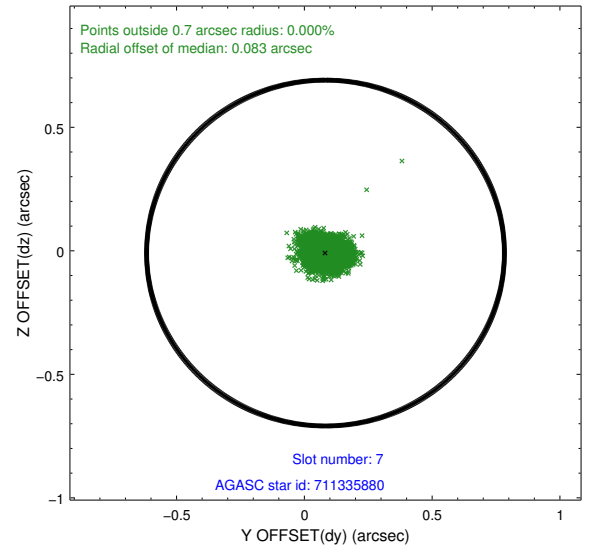
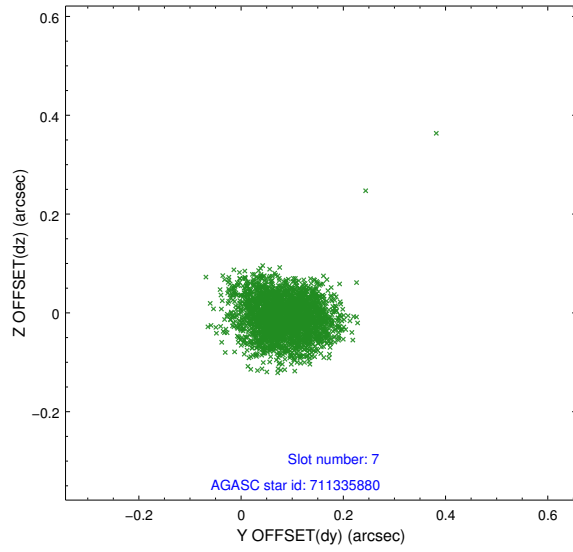
2.4.3 Slot 5



2.4.4 Slot 6

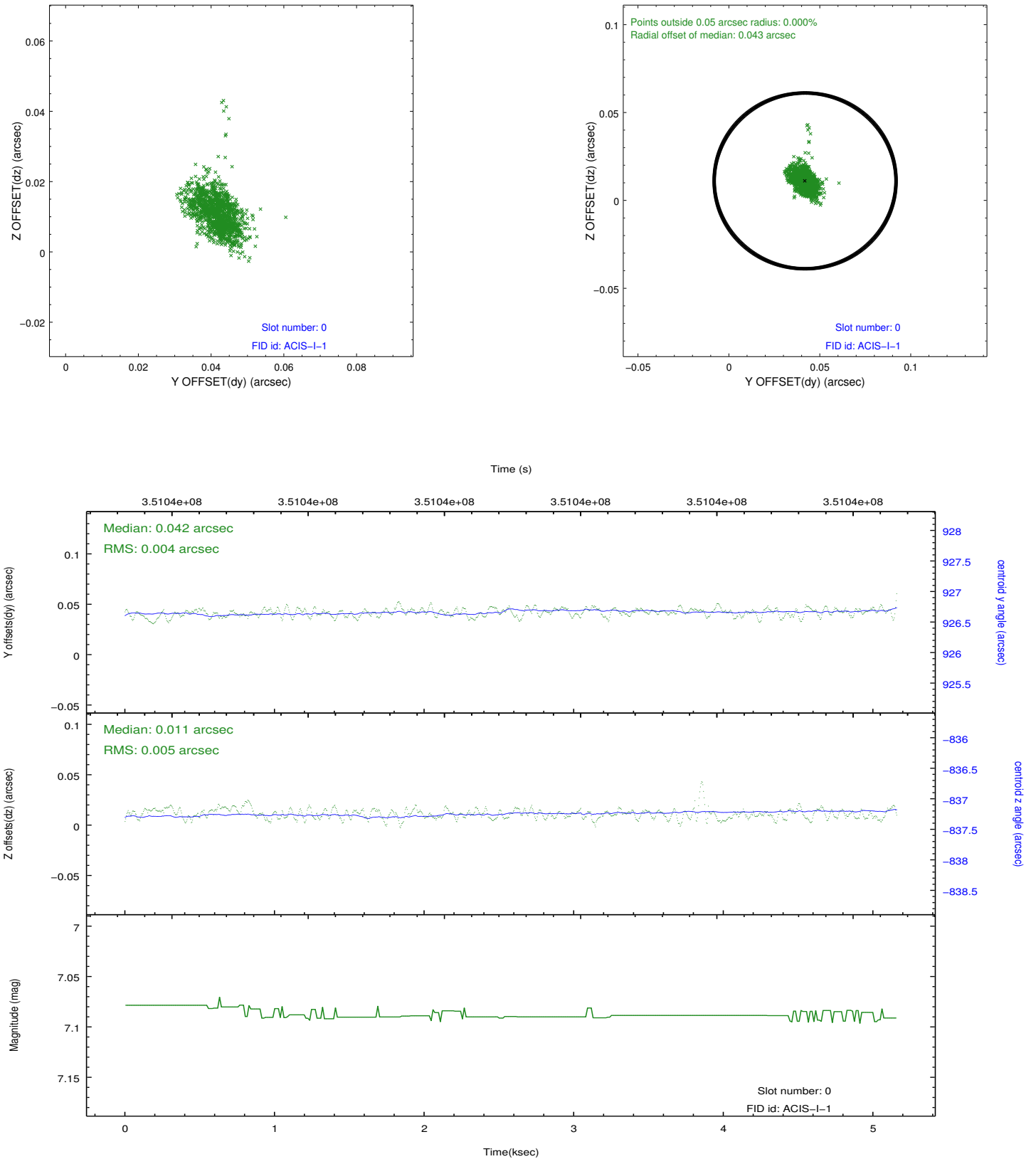


2.4.5 Slot 7

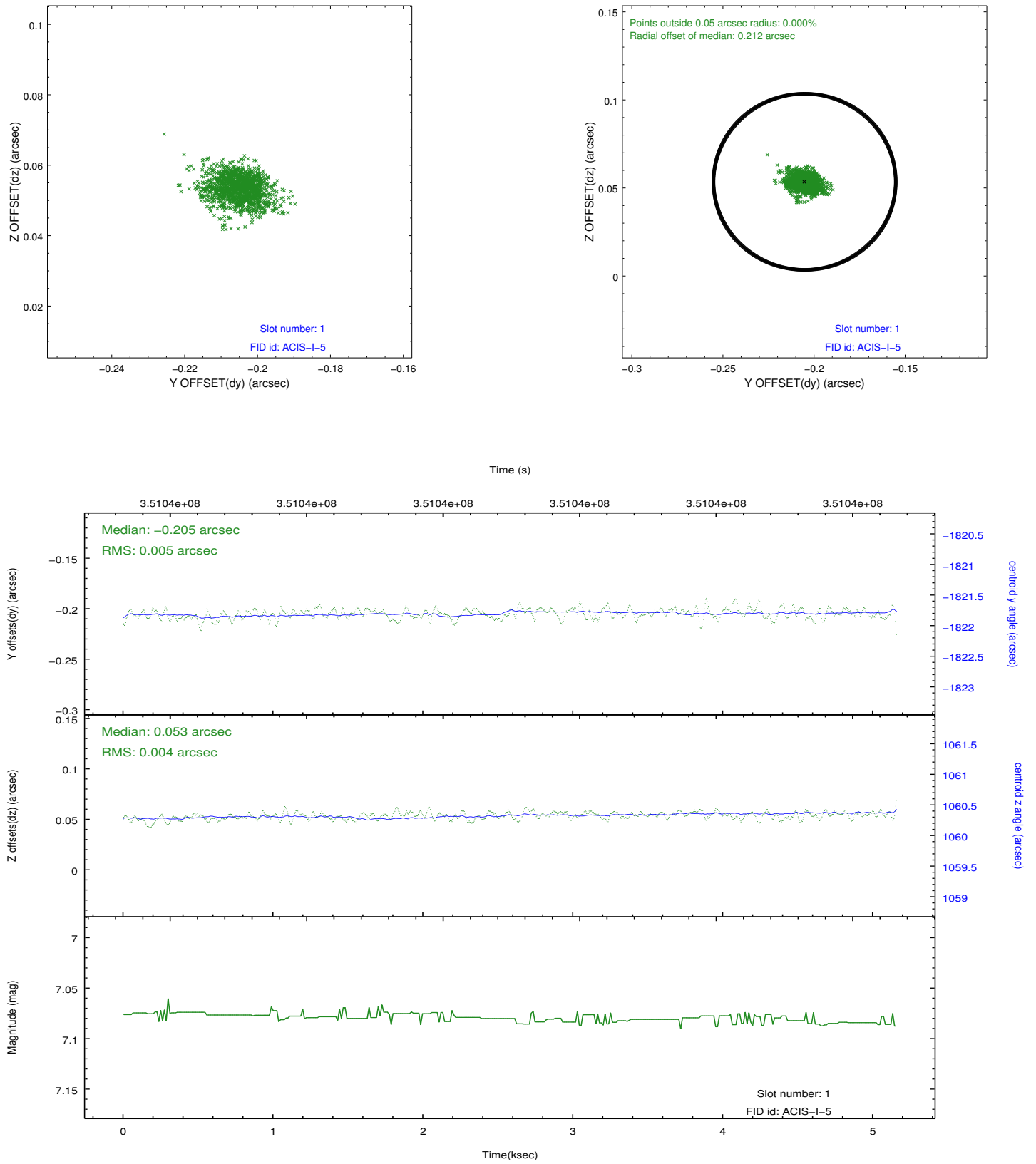


2.5 FID Slots

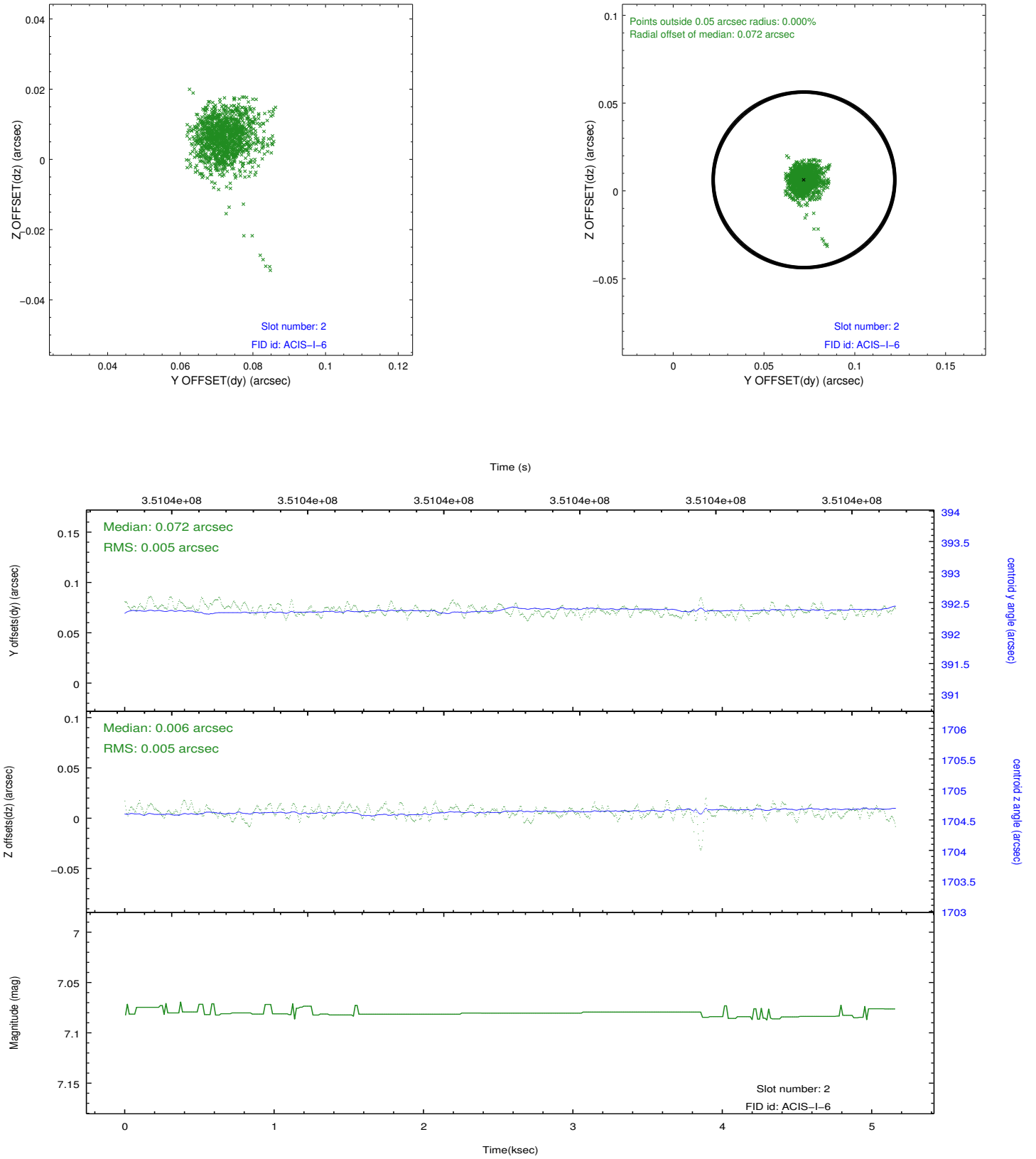
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.06.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.1522000396252

A.2 Comments