

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 10431 - L2 Version 2
Chandra X-Ray Center

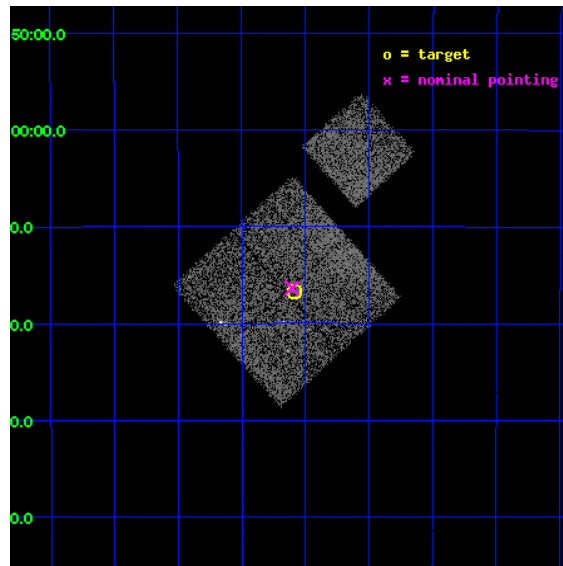
L2 Processing Date : Jun 2 2012

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

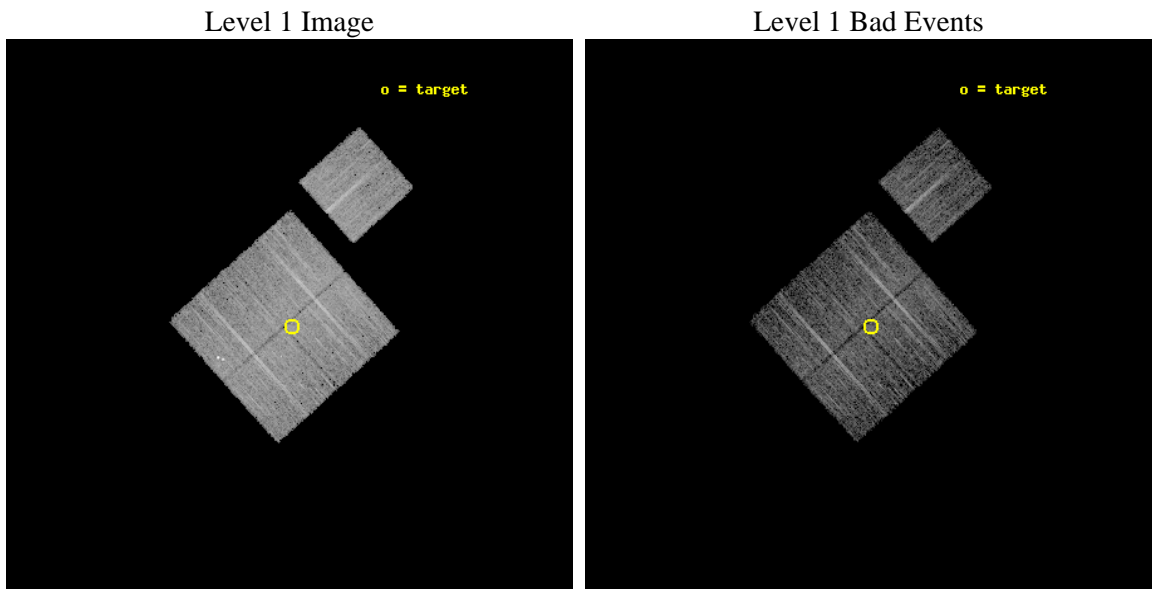
seq_num	800792	Sequence number
obs_id	10431	Observation id
title	A Chandra baseline for galaxy cluster evolution studies	Proposal t
observer	Dr Ben Maughan	Principal investigator
object	A1736	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	201.898	Observer's specified target RA [deg]
dec_targ	-27.279584	Observer's specified target Dec [deg]
ra_nom	201.90179670139	Nominal RA [deg]
dec_nom	-27.272187435321	Nominal Dec [deg]
roll_nom	48.01049097088	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5042.9539459348	Sum of GTIs [s]
livetime	4977.0640400624	Livetime [s]
ontime0	5042.8308259249	Sum of GTIs [s]
ontime1	5042.8718659282	Sum of GTIs [s]
ontime2	5042.9129059315	Sum of GTIs [s]
ontime3	5042.9539459348	Sum of GTIs [s]
ontime6	5039.6487855315	Sum of GTIs [s]
l2events	25250	Number of level 2 events



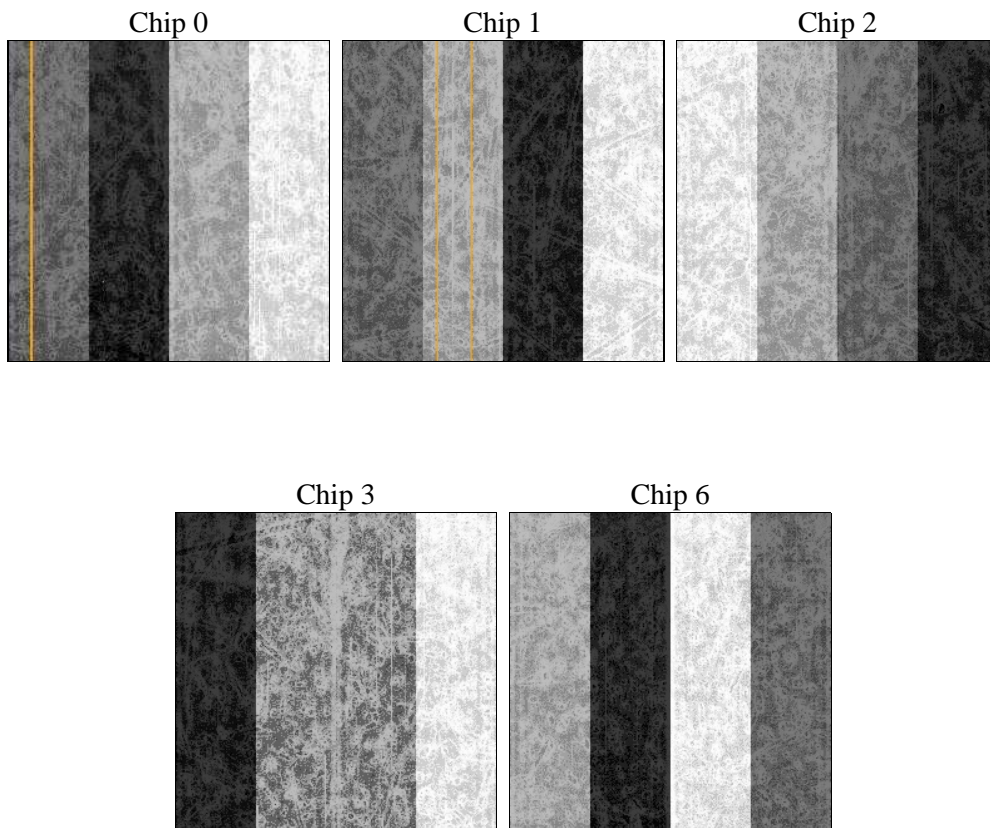
2 OBI

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	5042.9539459348	Sum of GTIs [s]
caldsver	4.4.9	 	ontime0	5042.8308259249	Sum of GTIs [s]
date	2012-06-02T14:44:49	Date and time of file creation	ontime1	5042.8718659282	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	5042.9129059315	Sum of GTIs [s]
			ontime3	5042.9539459348	Sum of GTIs [s]
			ontime6	5039.6487855315	Sum of GTIs [s]
			l1events	221542	Number of level 1 events

2.1.4 Events

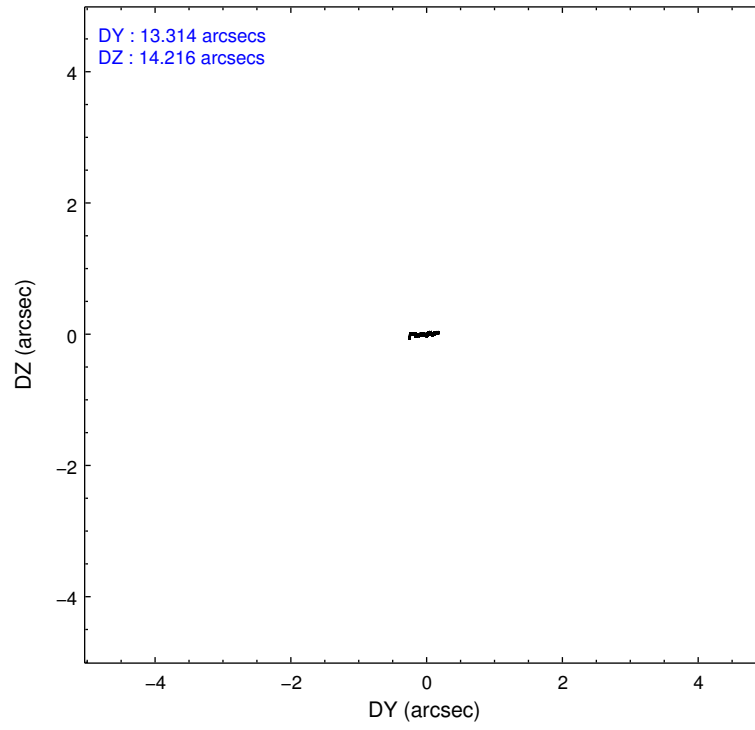
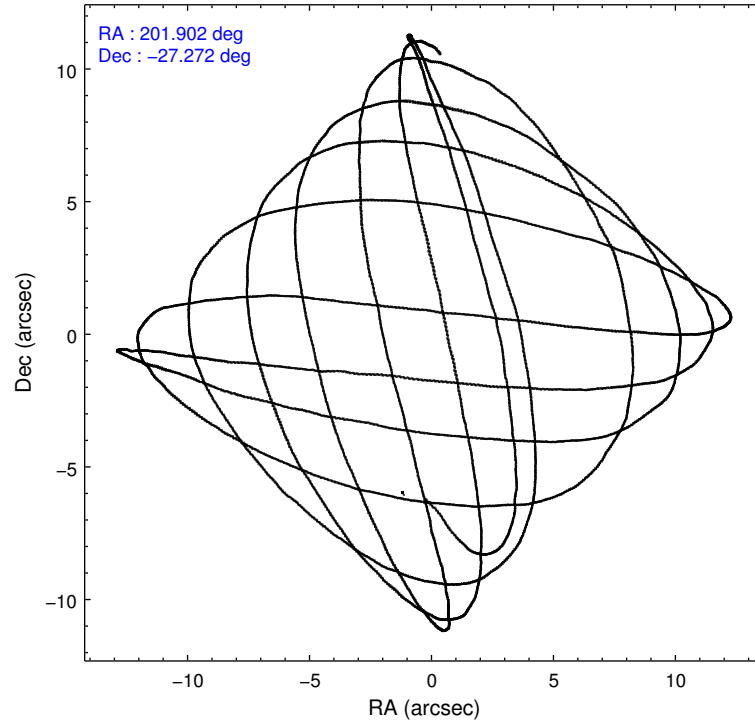
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	42337	42803	46037	45959	44406
rejected events	36100	37160	39992	40578	38350
rejected %	85%	86%	86%	88%	86%

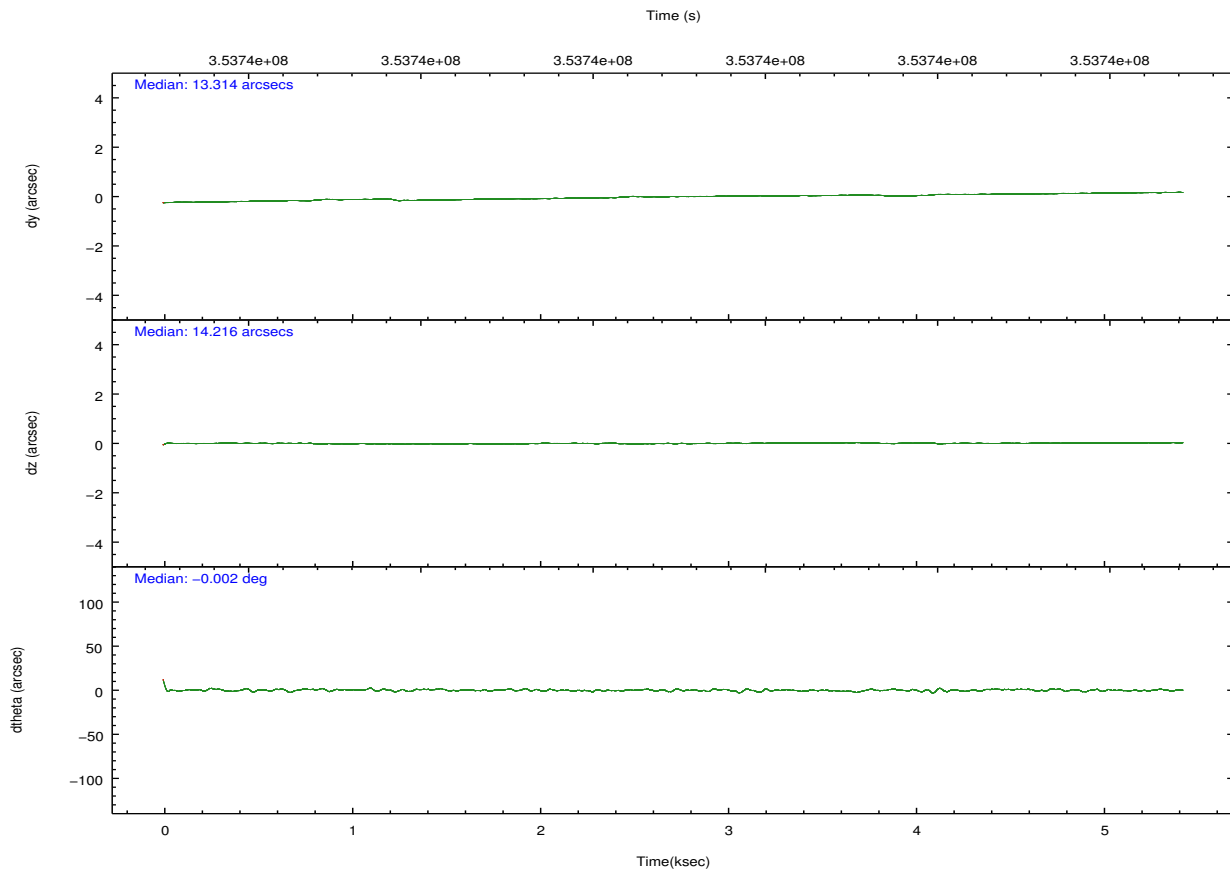
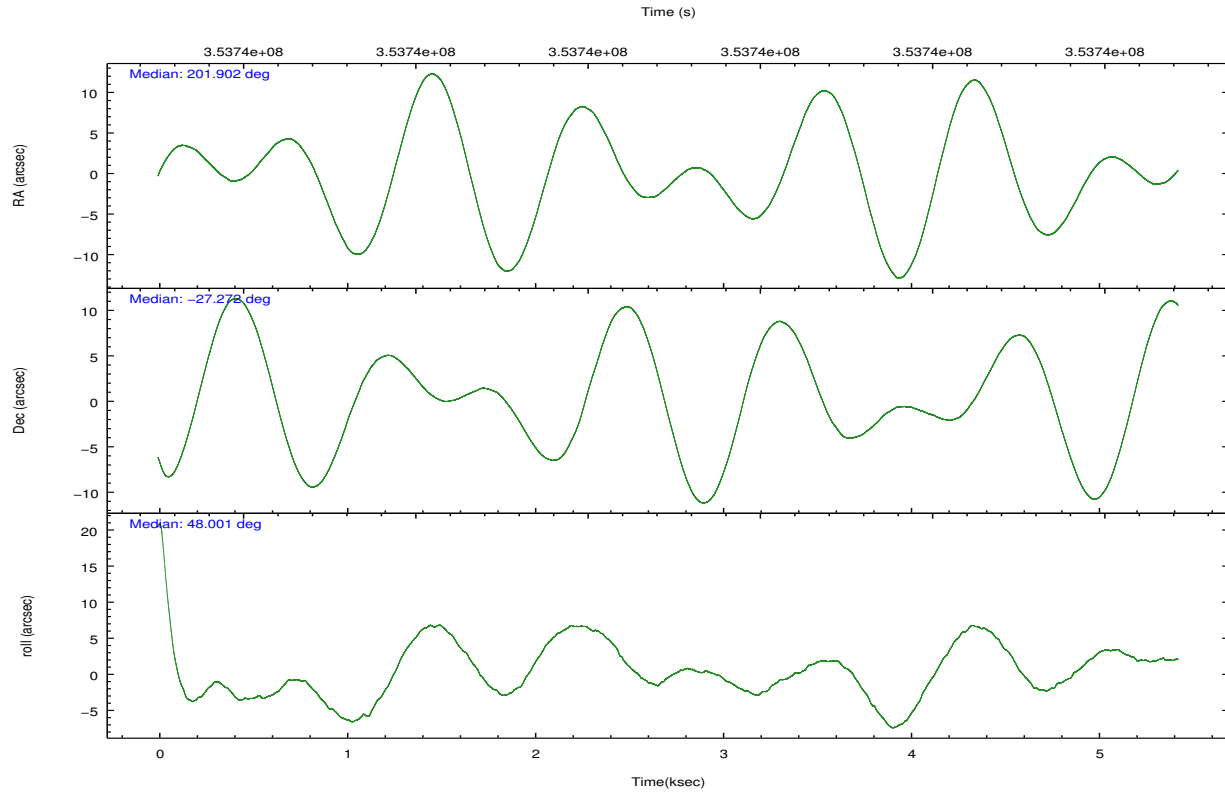
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	2949	2362	2988	2467	2916
	6%	5%	6%	5%	6%
grade 1 events	42	23	32	30	20
	0%	0%	0%	0%	0%
grade 2 events	1289	1203	1173	1033	1106
	3%	2%	2%	2%	2%
grade 3 events	577	548	518	525	526
	1%	1%	1%	1%	1%
grade 4 events	499	523	528	480	526
	1%	1%	1%	1%	1%
grade 5 events	1570	1789	1497	1809	1776
	3%	4%	3%	3%	3%
grade 6 events	929	1015	843	879	988
	2%	2%	1%	1%	2%
grade 7 events	34482	35340	38458	38736	36548
	81%	82%	83%	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	201.895494	201.901796701392	CCD I2 on	Y	Y
[deg] Pointing Dec	-27.299166	-27.27218743532116	CCD I3 on	Y	Y
[deg] Pointing Roll	47.798852	48.01049097087956	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)	353738178.184000	353736984.59892	CCD S5 on	N	N
Observation start date	2009-03-18T04:35:12	2009-03-18T04:16:24	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	353743178.184000	353744222.12428	On-chip summing requested	N	N
Observation end date	2009-03-18T05:58:32	2009-03-18T06:17:02	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



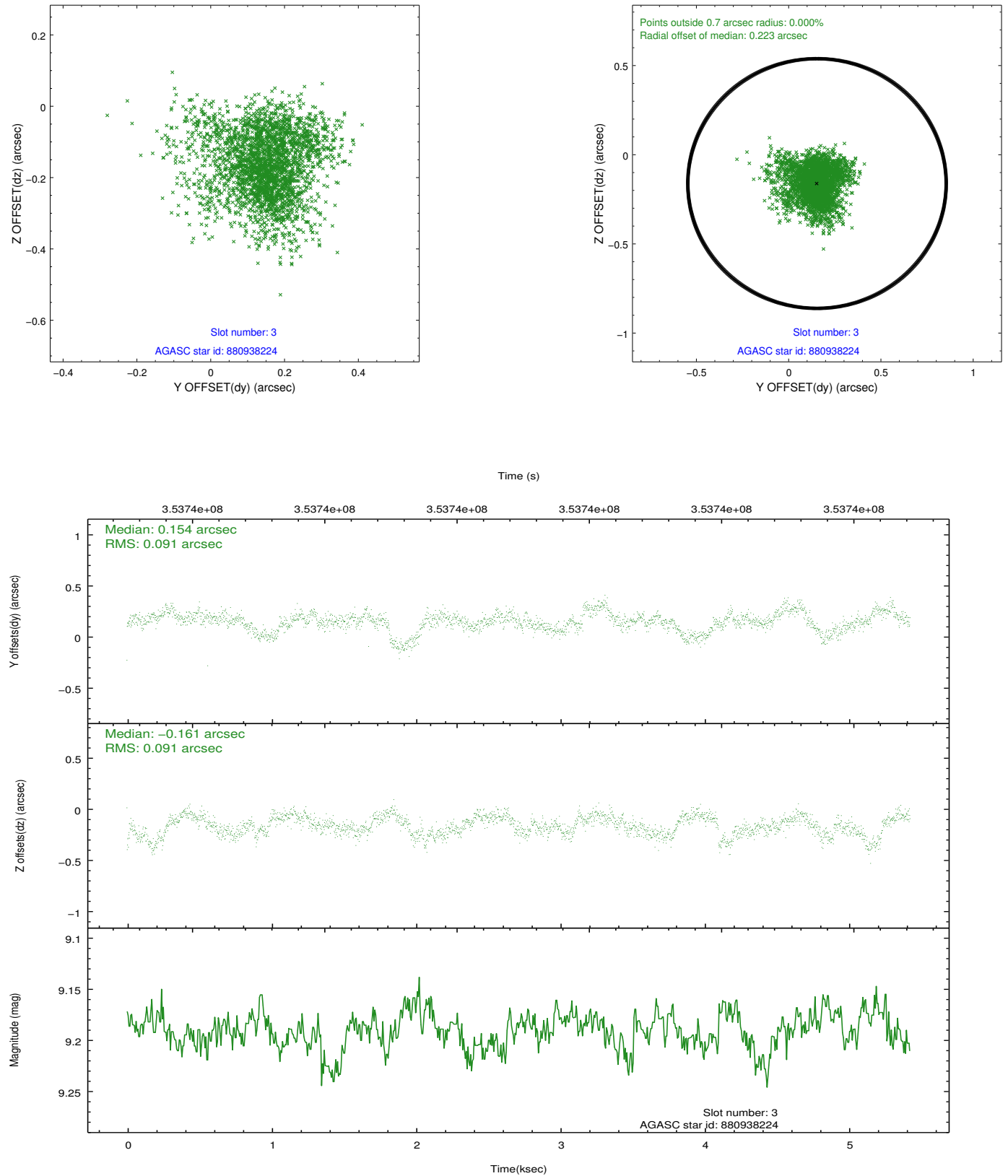


Slot Statistics

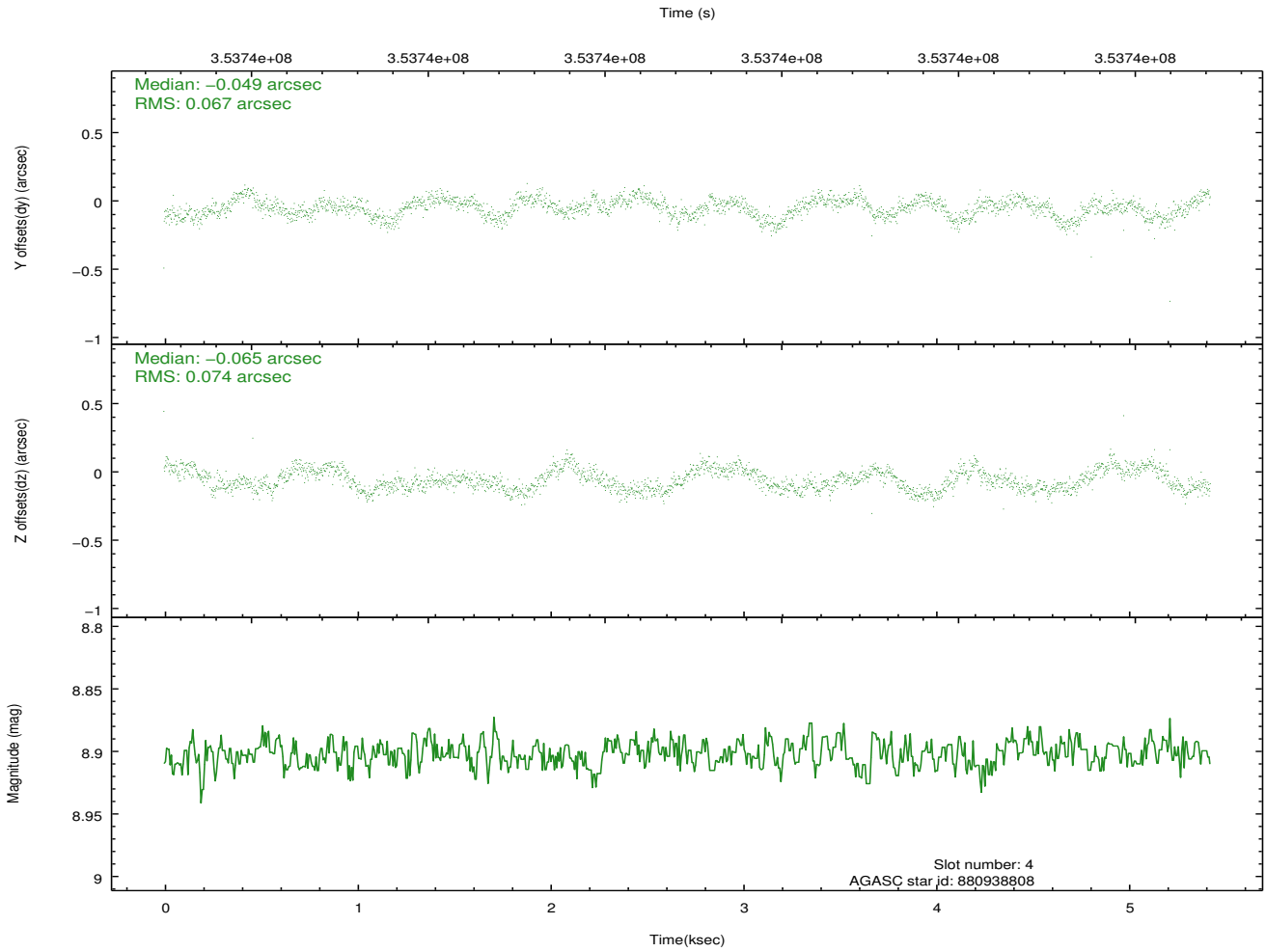
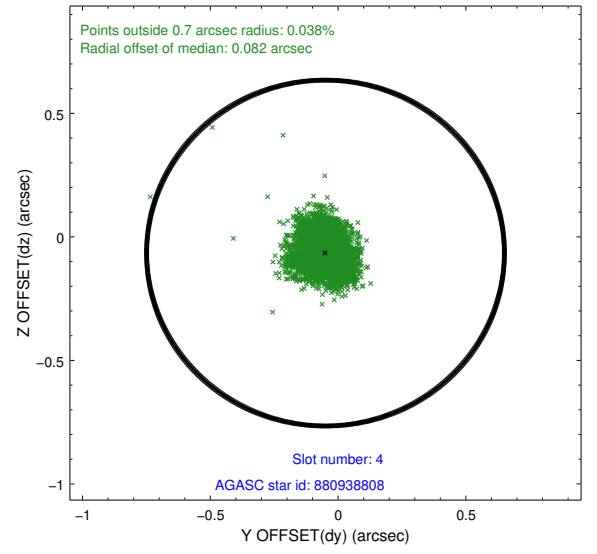
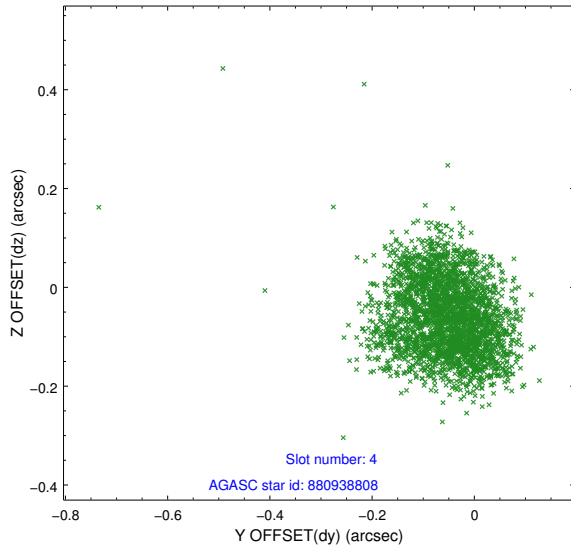
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.05	1324	-0.049	0.075	0.009	0.016	0.000000	0.000000	926.16	-837.73
1	FID	ACIS-I-2	6.95	1324	-0.158	-0.094	0.006	0.011	0.000000	0.000000	-767.42	-844.88
2	FID	ACIS-I-4	6.96	1323	0.108	0.087	0.006	0.011	0.000000	0.000000	2145.71	1061.52
3	GUIDE	880938224	9.19	2642	0.154	-0.161	0.133	0.228	201.238253	-27.148228	-1016.01	1920.85
4	GUIDE	880938808	8.90	2648	-0.049	-0.065	0.107	0.158	201.379902	-27.218141	-896.07	1417.20
5	GUIDE	880939792	9.77	2644	0.057	0.047	0.123	0.195	202.282991	-27.623783	-36.85	-1701.08
6	GUIDE	880942288	9.77	2644	-0.125	0.345	0.126	0.218	202.289696	-27.775287	-427.53	-2083.00
7	GUIDE	880943920	8.91	2646	-0.027	-0.161	0.079	0.126	201.335153	-27.473794	-1671.22	899.85

2.4 Star Slots

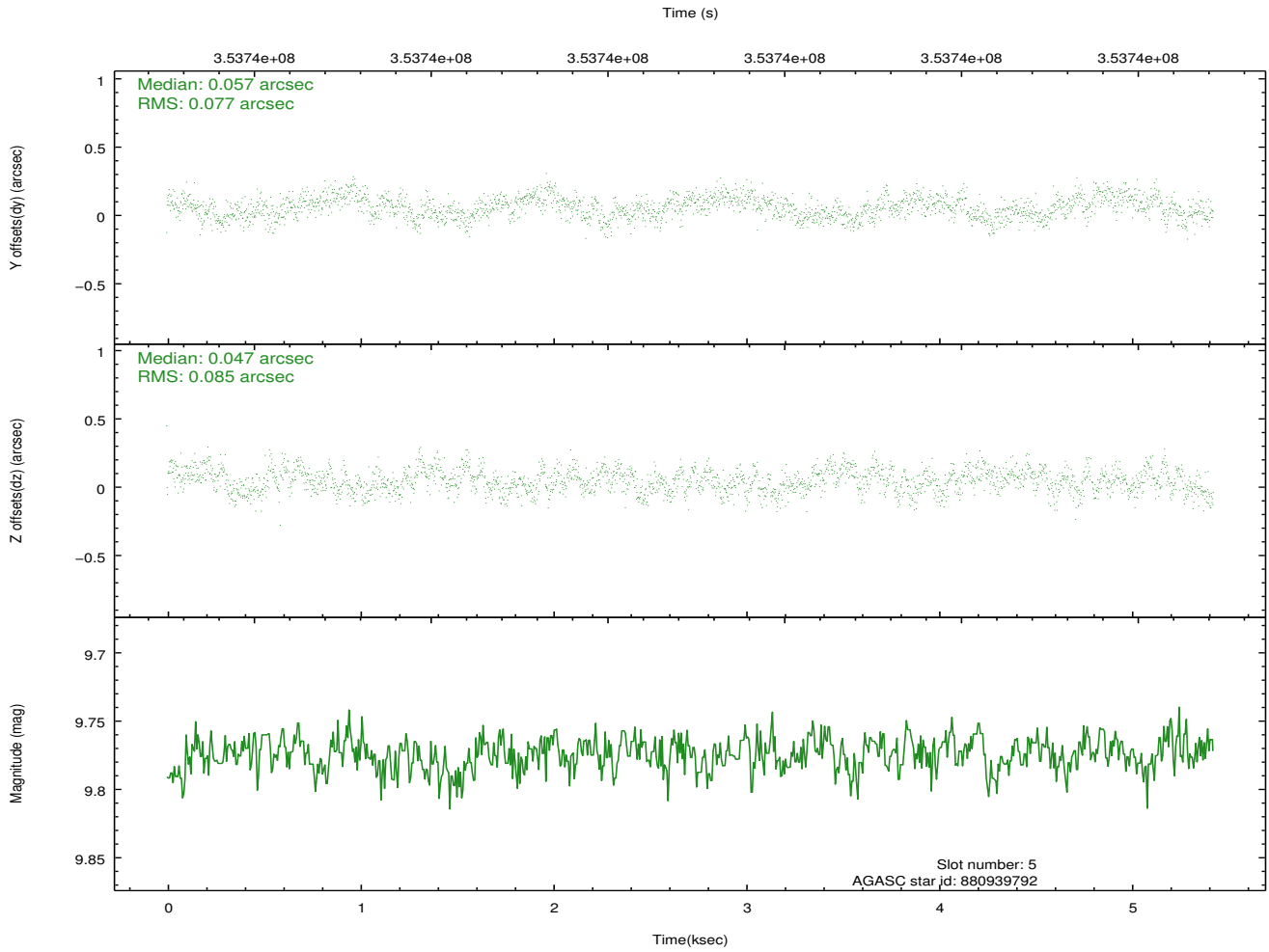
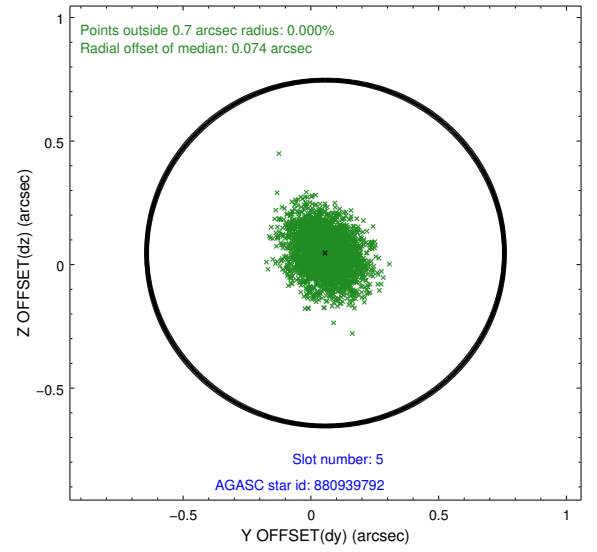
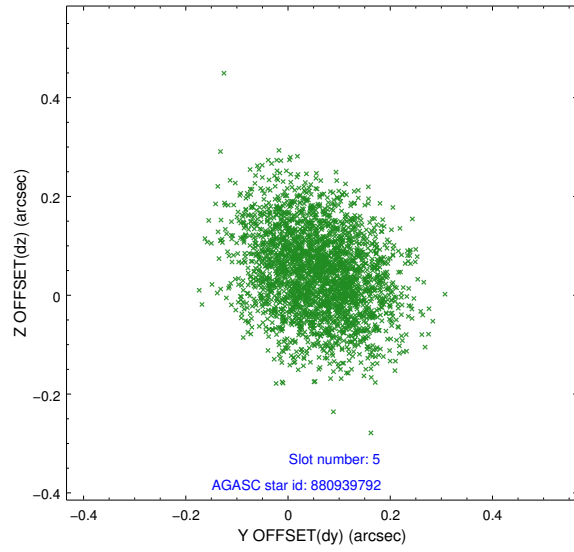
2.4.1 Slot 3



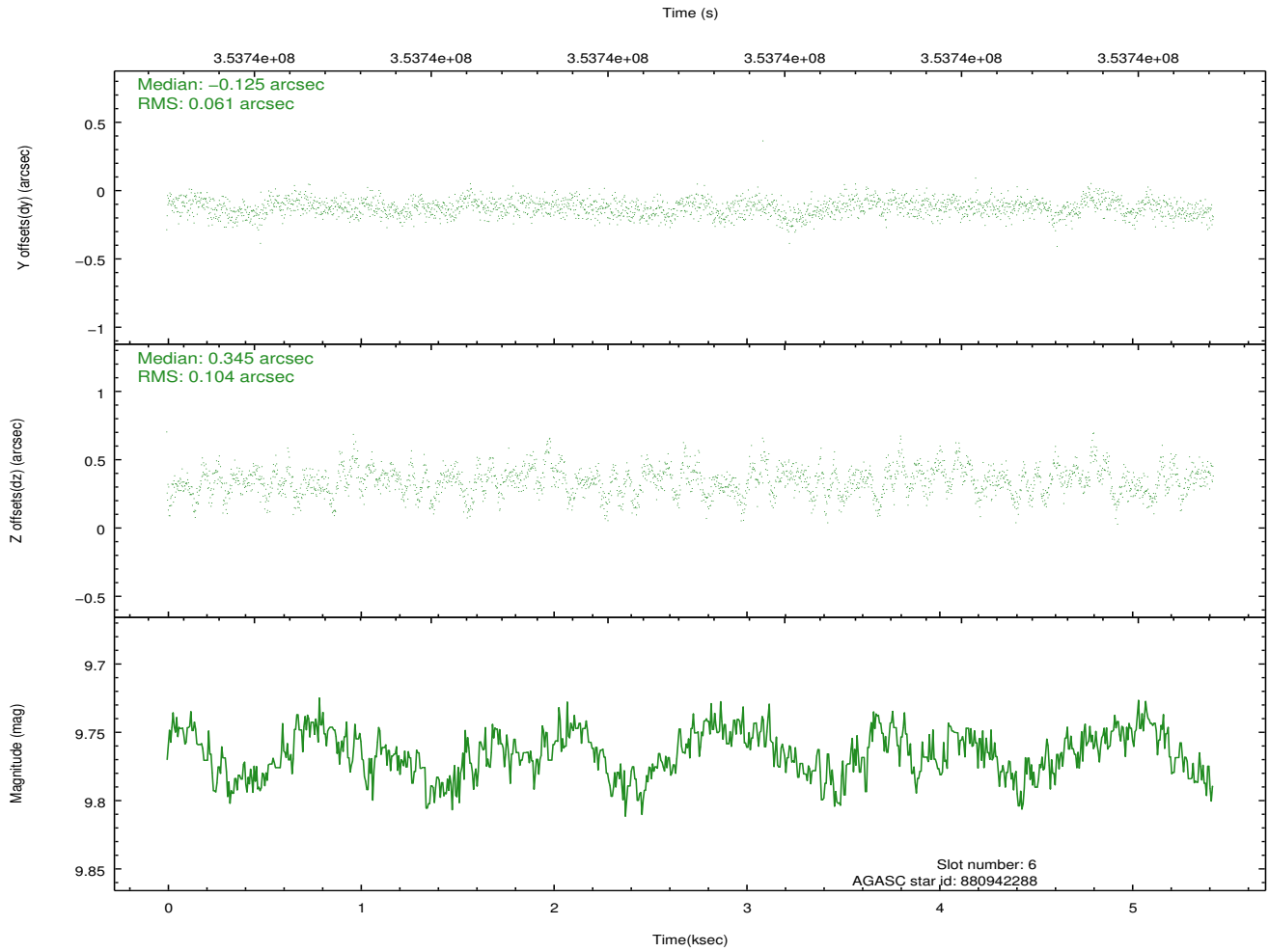
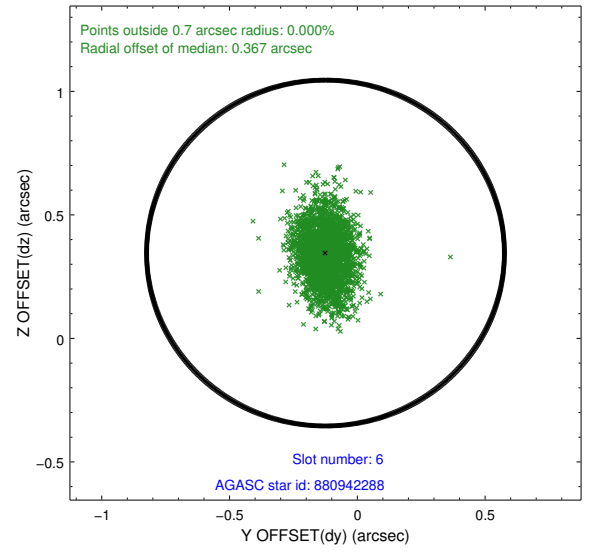
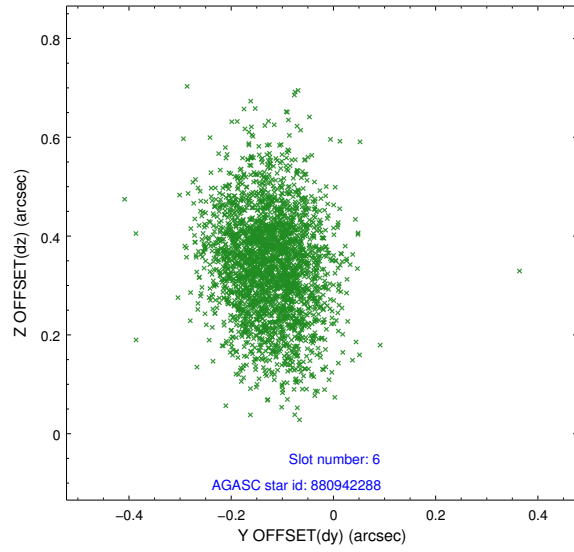
2.4.2 Slot 4



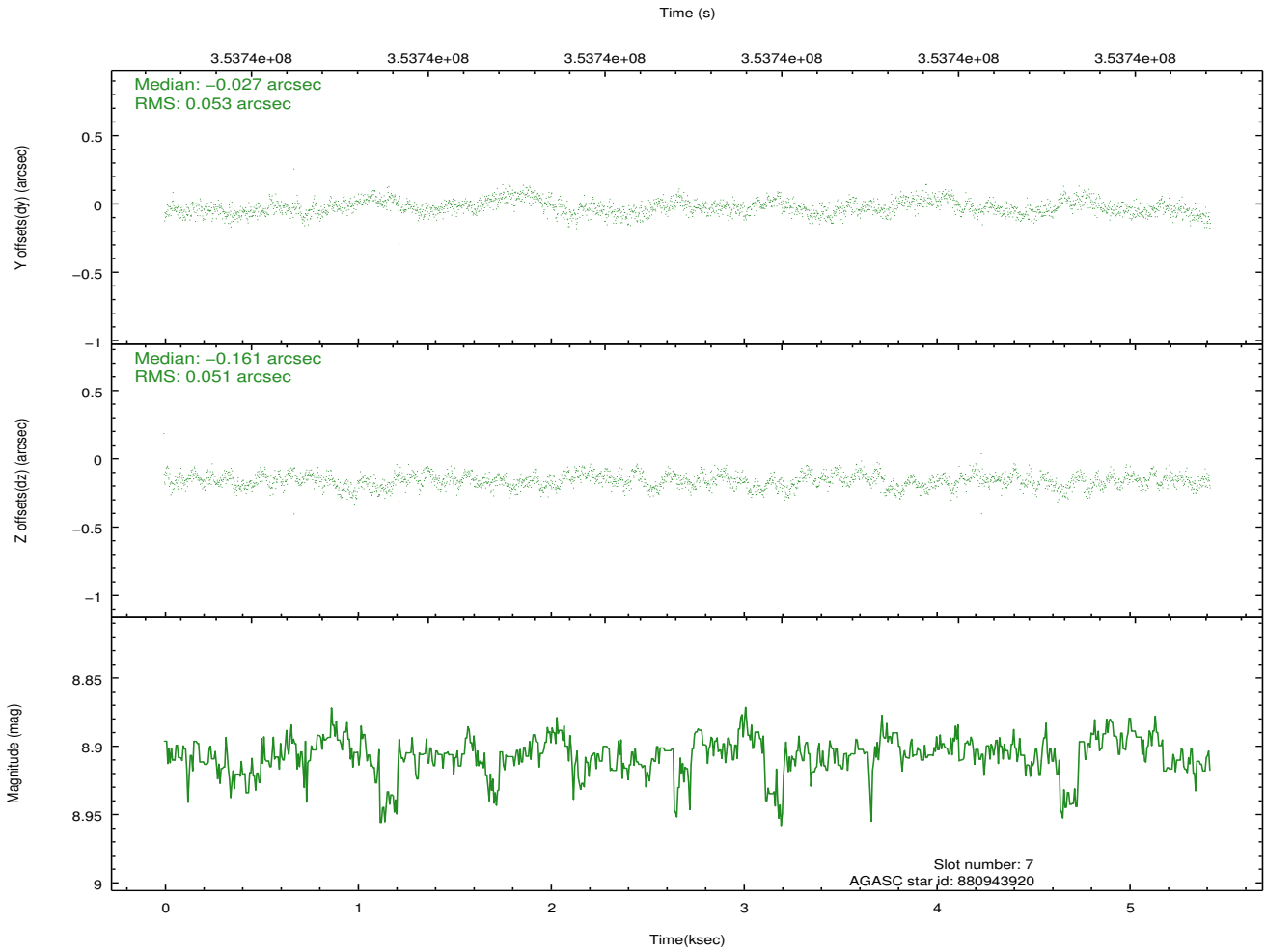
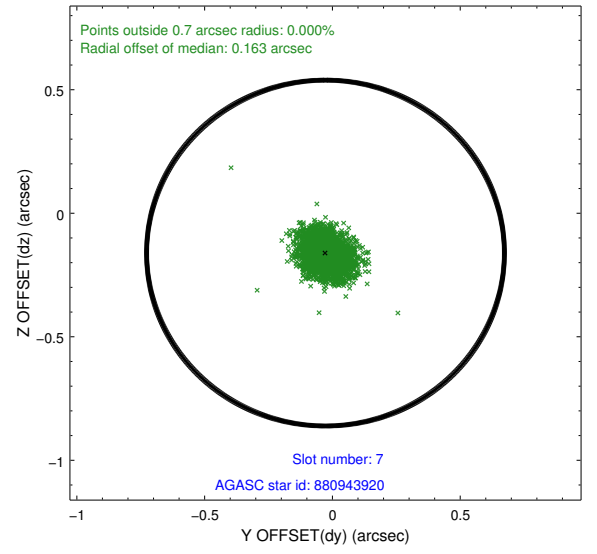
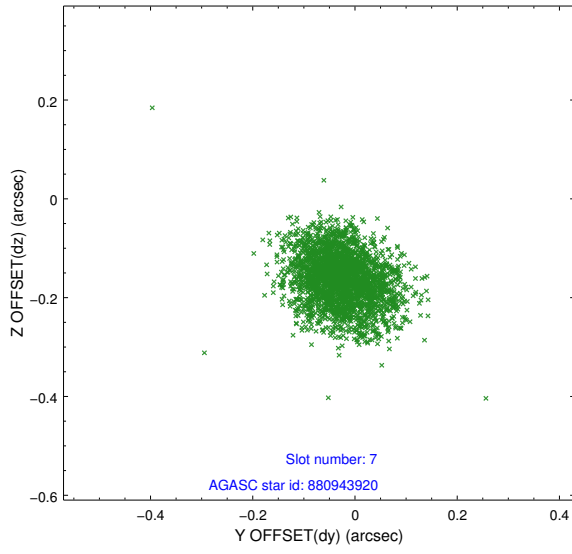
2.4.3 Slot 5



2.4.4 Slot 6

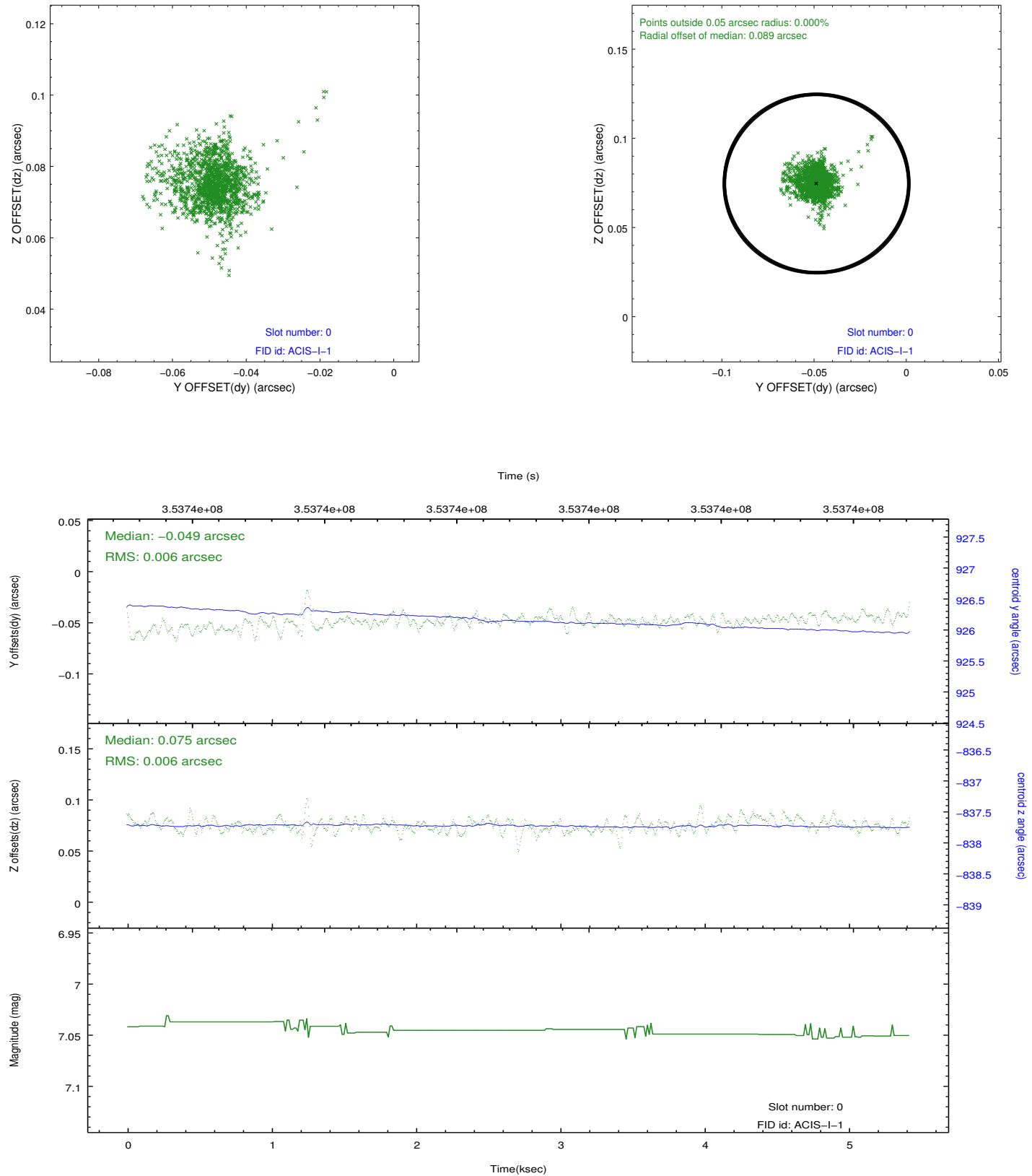


2.4.5 Slot 7

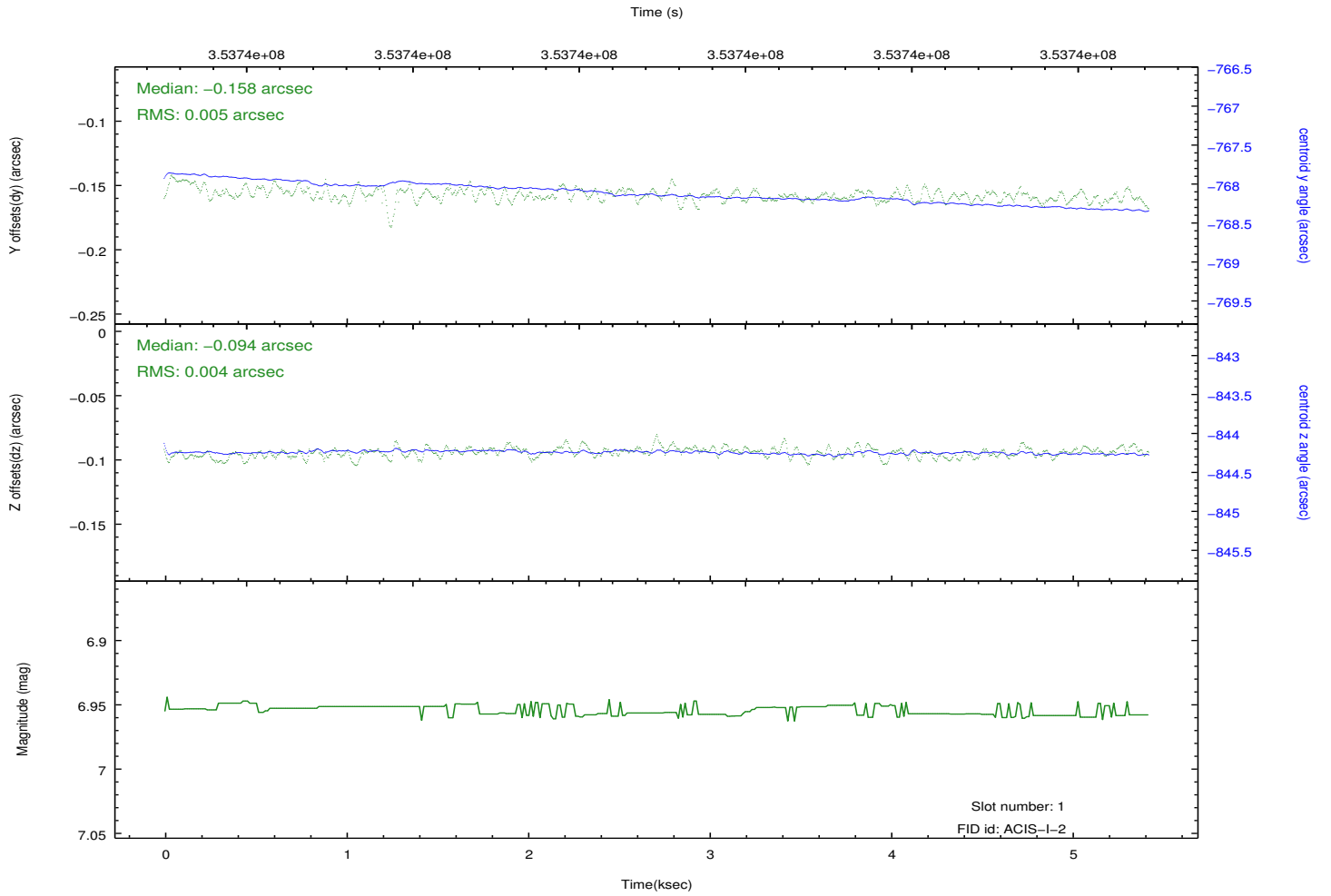
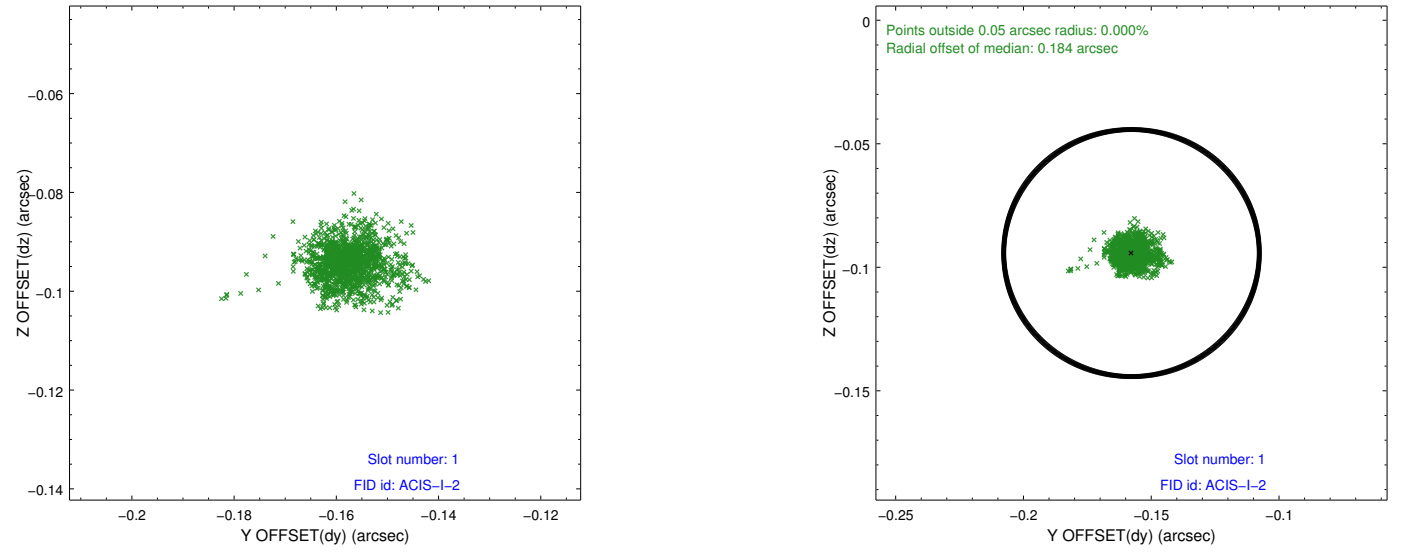


2.5 FID Slots

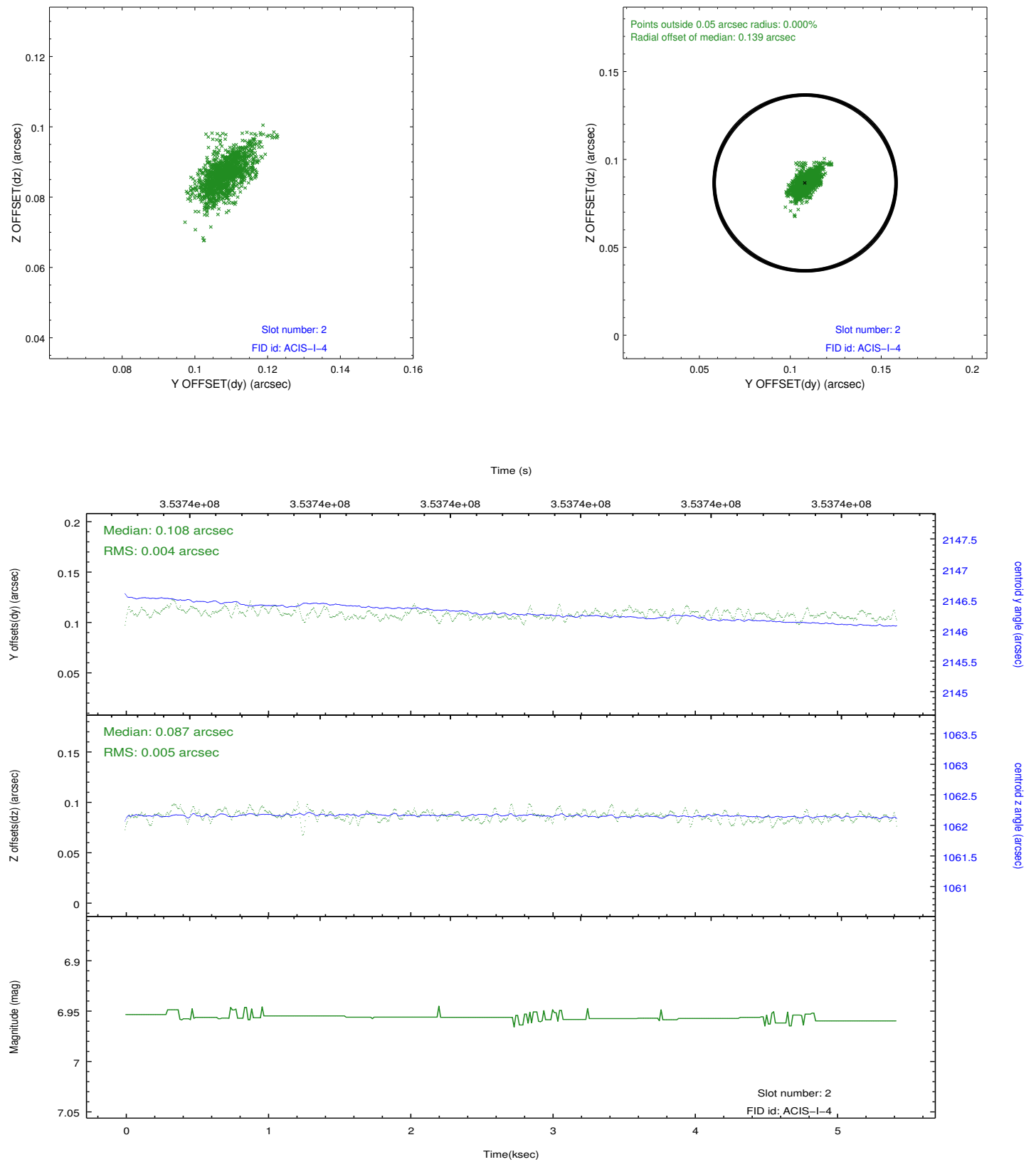
2.5.1 Slot 0



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	5.04370003

A.2 Comments