

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 8129 - L2 Version 2
Chandra X-Ray Center

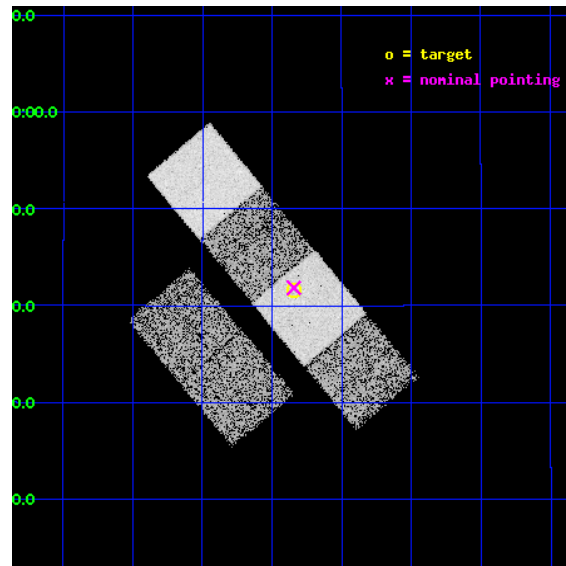
L2 Processing Date : May 4 2012

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1 Front

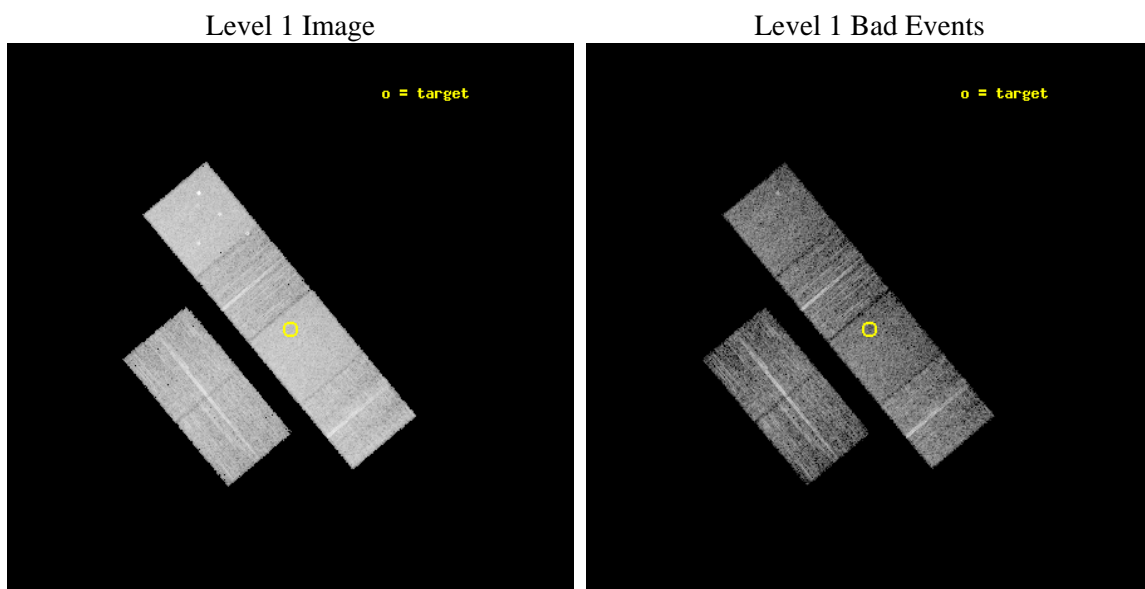
seq_num	900670	Sequence number
obs_id	8129	Observation id
title	The Duty Cycle of Supermassive Black Holes: X-raying Virgo	Proposa
observer	Prof Tommaso Treu	Principal investigator
object	2019	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	191.335	Observer's specified target RA [deg]
dec_targ	13.6925	Observer's specified target Dec [deg]
ra_nom	191.33573320024	Nominal RA [deg]
dec_nom	13.697316584236	Nominal Dec [deg]
roll_nom	50.094846327649	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5155.199980855	Sum of GTIs [s]
livetime	5089.9217346086	Livetime [s]
ontime2	5155.199980855	Sum of GTIs [s]
ontime3	5155.199980855	Sum of GTIs [s]
ontime5	5155.199980855	Sum of GTIs [s]
ontime6	5155.199980855	Sum of GTIs [s]
ontime7	5155.199980855	Sum of GTIs [s]
ontime8	5151.9590105414	Sum of GTIs [s]
l2events	83040	Number of level 2 events



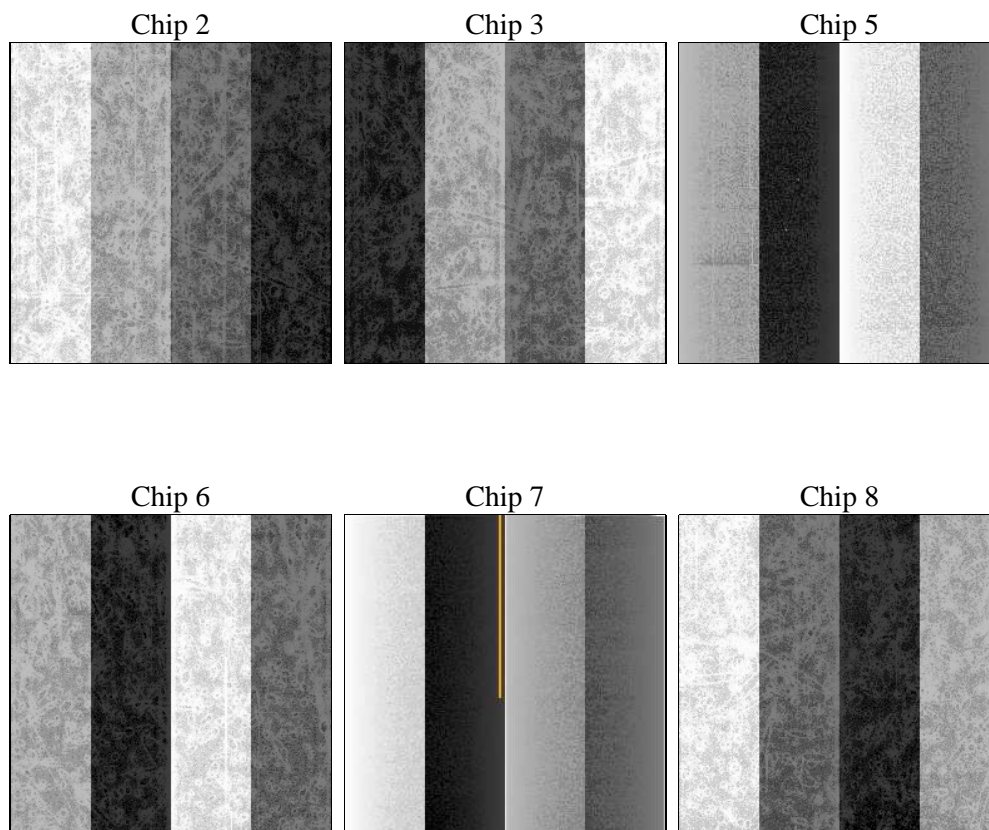
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5400.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	5155.199980855	Sum of GTIs [s]
caldsver	4.4.9	 	ontime2	5155.199980855	Sum of GTIs [s]
date	2012-05-04T13:33:43	Date and time of file creation	ontime3	5155.199980855	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	5155.199980855	Sum of GTIs [s]
			ontime6	5155.199980855	Sum of GTIs [s]
			ontime7	5155.199980855	Sum of GTIs [s]
			ontime8	5151.9590105414	Sum of GTIs [s]
			l1events	357441	Number of level 1 events

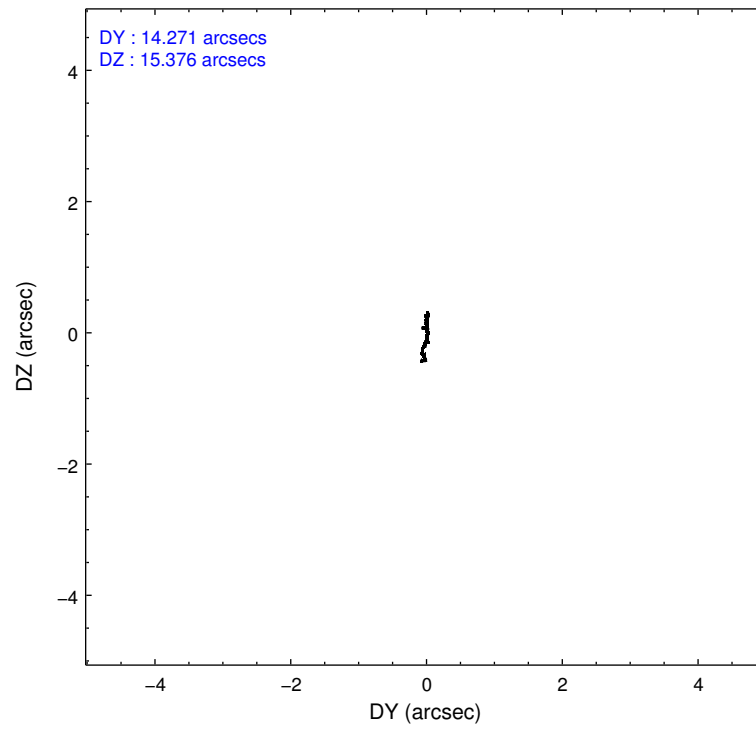
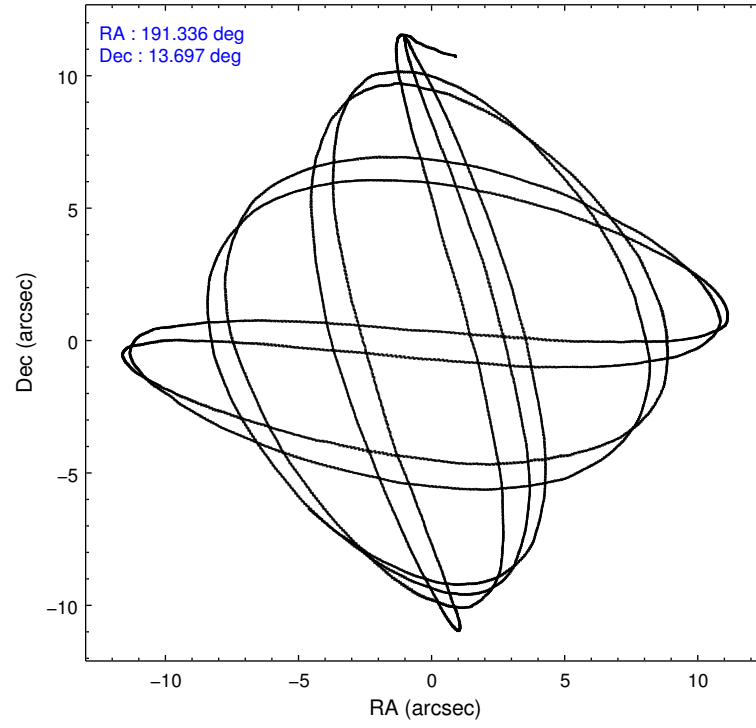
2.1.4 Events

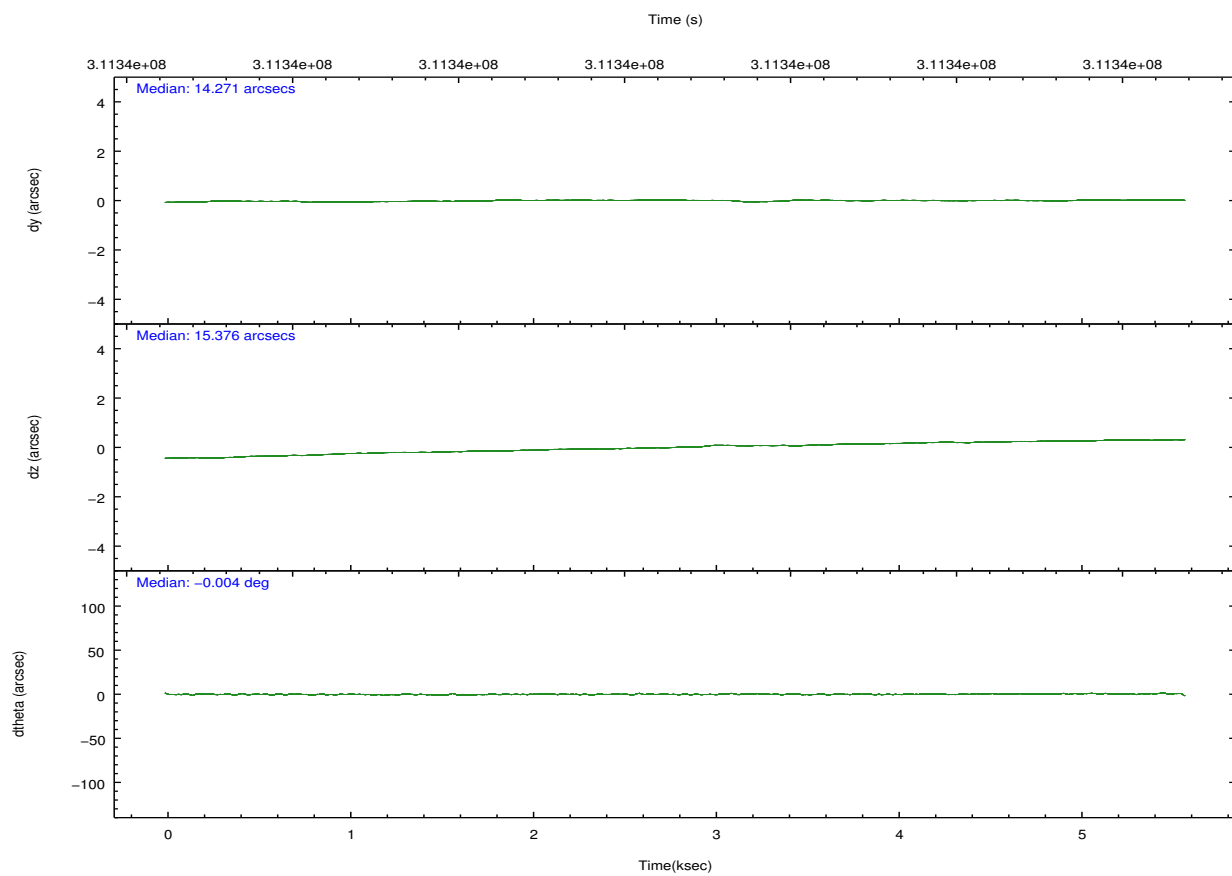
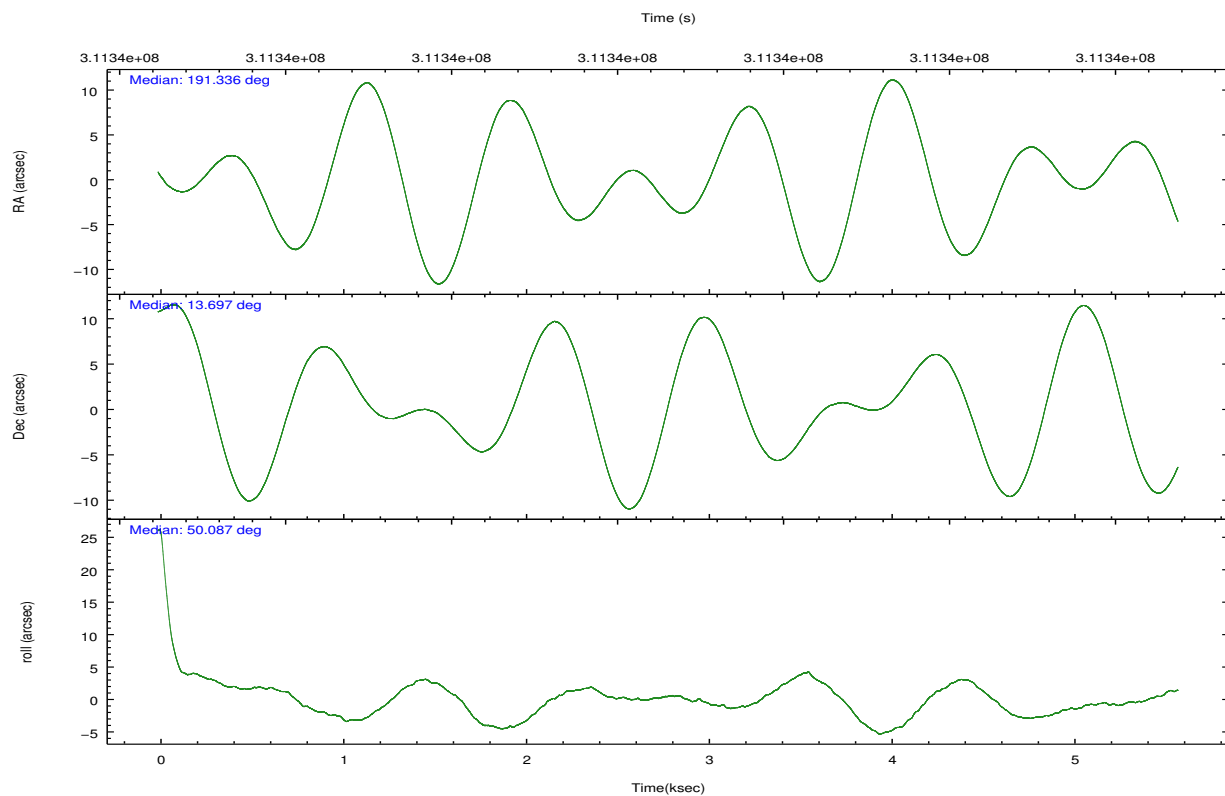
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	49551	48117	76306	49608	69196	64663	grade 0 events	2742	2582	3260	2393	2575	4392
rejected events	43492	42381	40985	43571	40093	50403		5%	5%	4%	4%	3%	6%
rejected %	87%	88%	53%	87%	57%	77%	grade 1 events	49	34	262	30	58	58
								0%	0%	0%	0%	0%	0%
							grade 2 events	1260	1115	10896	1275	5988	3297
								2%	2%	14%	2%	8%	5%
							grade 3 events	548	529	1219	569	2430	1435
								1%	1%	1%	1%	3%	2%
							grade 4 events	572	541	1258	542	2314	1361
								1%	1%	1%	1%	3%	2%
							grade 5 events	1950	2225	5350	2351	6381	3073
								3%	4%	7%	4%	9%	4%
							grade 6 events	938	974	18706	1260	15816	3779
								1%	2%	24%	2%	22%	5%
							grade 7 events	41492	40117	35355	41188	33634	47268
								83%	83%	46%	83%	48%	73%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	191.331249	191.335733200237	CCD I2 on	O1	Y
[deg] Pointing Dec	13.670296	13.69731658423553	CCD I3 on	O2	Y
[deg] Pointing Roll	49.939238	50.09484632764922	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O3	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	O4	Y
[s] Observation start time (MET)	311339684.184000	311339085.18766	CCD S5 on	N	N
Observation start date	2007-11-13T11:13:39	2007-11-13T11:04:45	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	311345084.184000	311345253.63795	On-chip summing requested	N	N
Observation end date	2007-11-13T12:43:39	2007-11-13T12:47:33	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



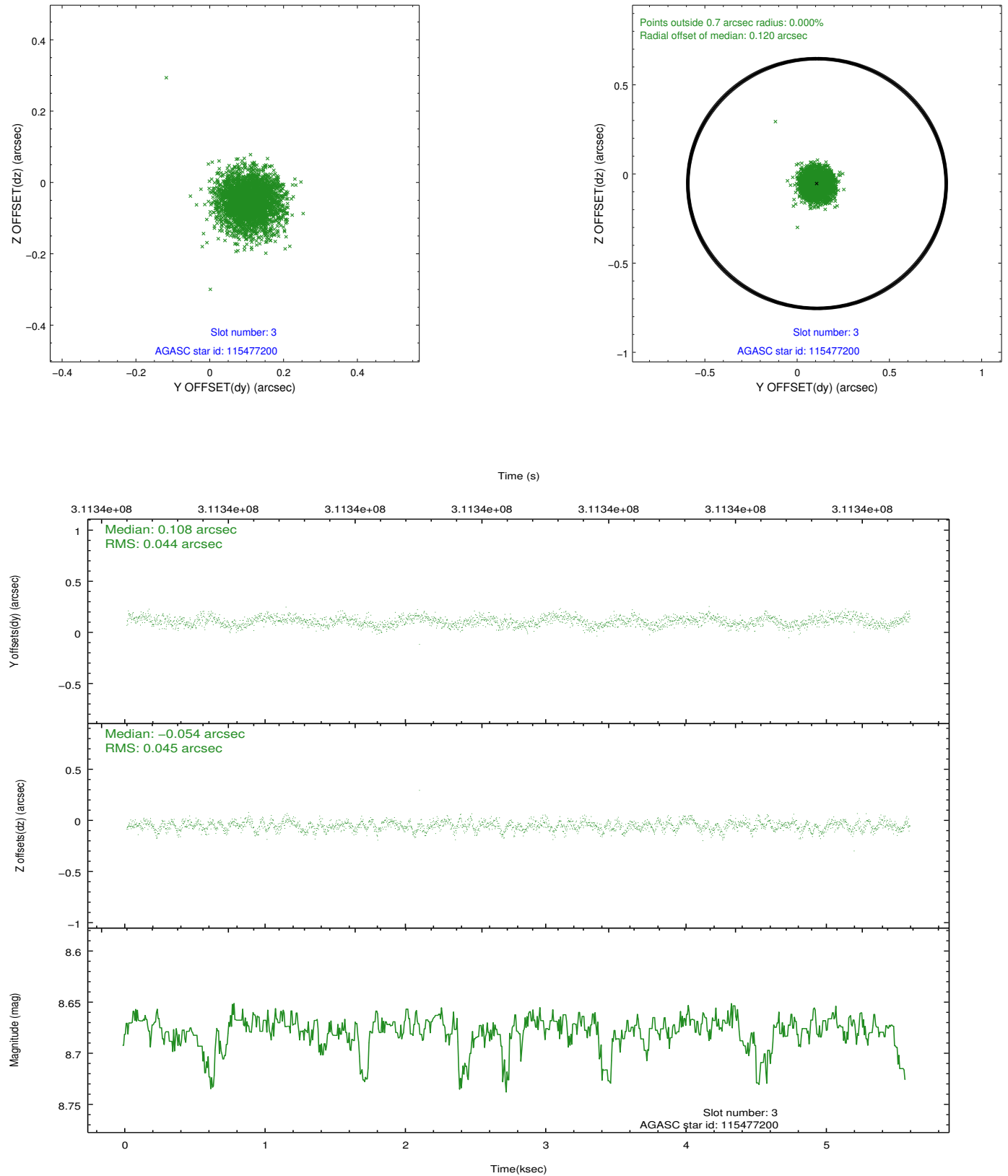


Slot Statistics

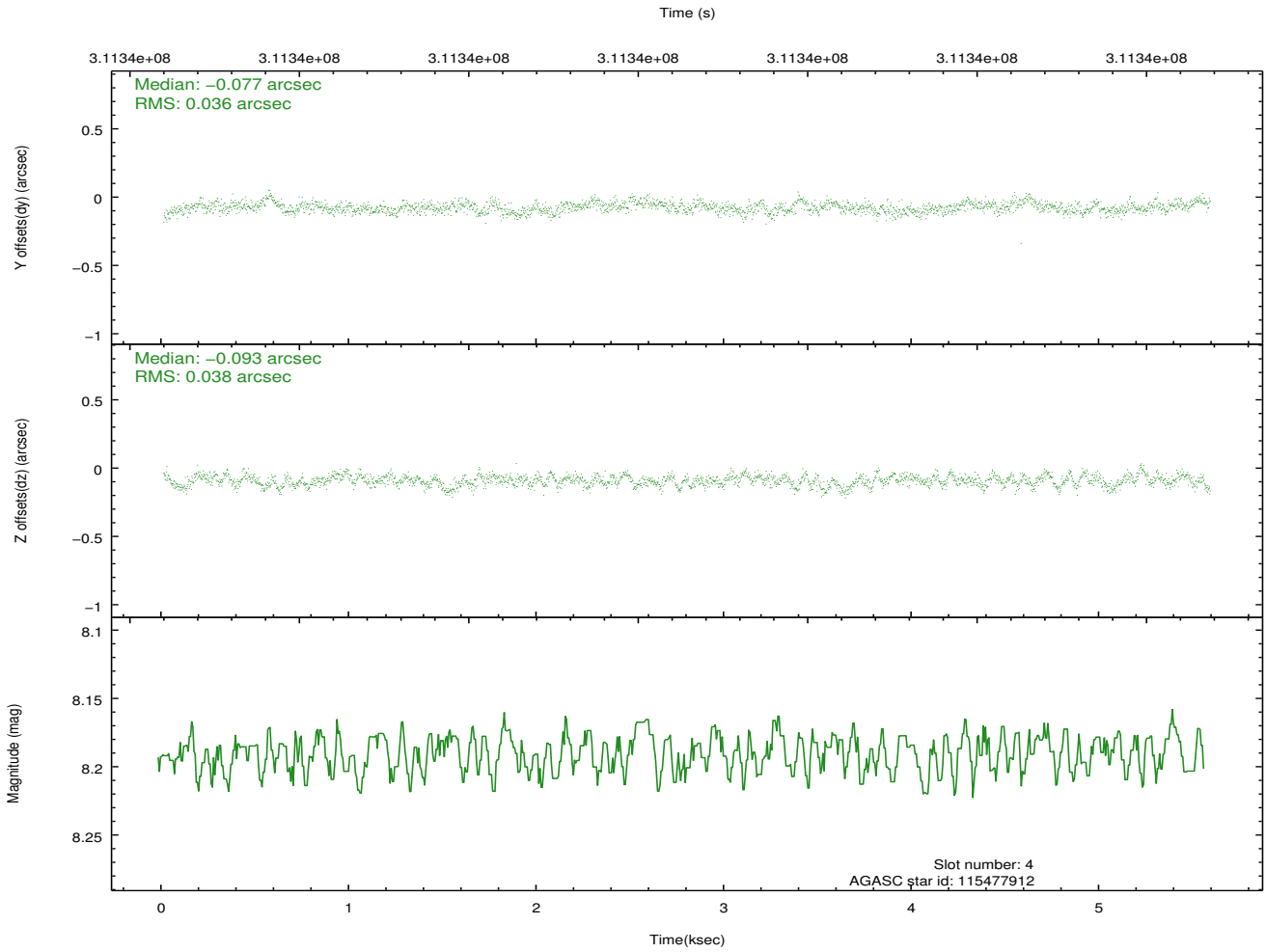
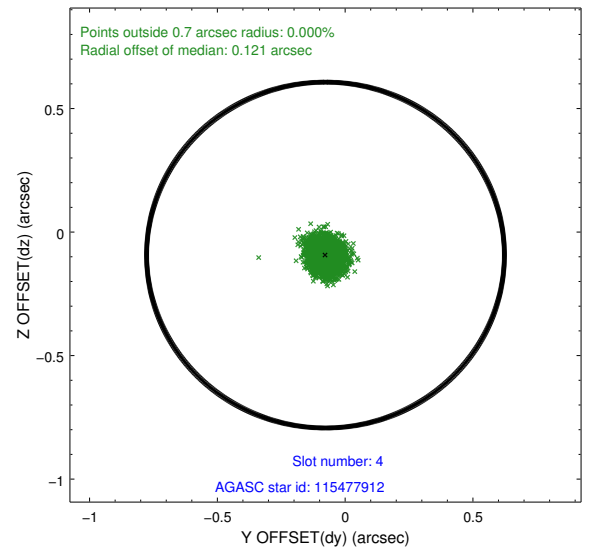
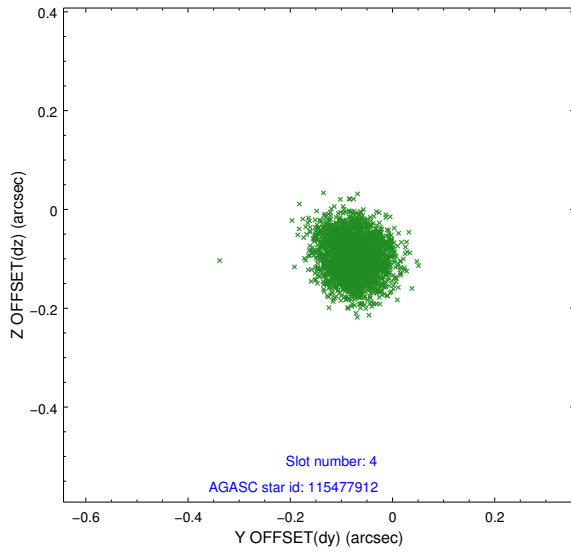
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.09	1361	-0.080	-0.022	0.007	0.012	0.000000	0.000000	-767.28	-1736.72
1	FID	ACIS-S-4	7.19	1361	0.200	0.044	0.005	0.010	0.000000	0.000000	2145.77	170.73
2	FID	ACIS-S-5	7.22	1361	-0.152	-0.014	0.007	0.011	0.000000	0.000000	-1818.83	165.54
3	GUIDE	115477200	8.68	2722	0.108	-0.054	0.066	0.104	191.140191	13.348570	-1316.84	-233.03
4	GUIDE	115477912	8.19	2722	-0.077	-0.093	0.056	0.090	191.480423	13.583124	95.48	-600.98
5	GUIDE	116398936	7.91	2720	-0.102	0.081	0.061	0.096	191.963147	13.423898	747.78	-2262.44
6	GUIDE	116400912	6.96	2721	-0.065	0.112	0.085	0.151	192.059732	13.553026	1320.99	-2220.65
7	GUIDE	115476792	9.19	2719	0.130	-0.038	0.078	0.125	190.933104	13.143247	-2348.92	-153.10

2.4 Star Slots

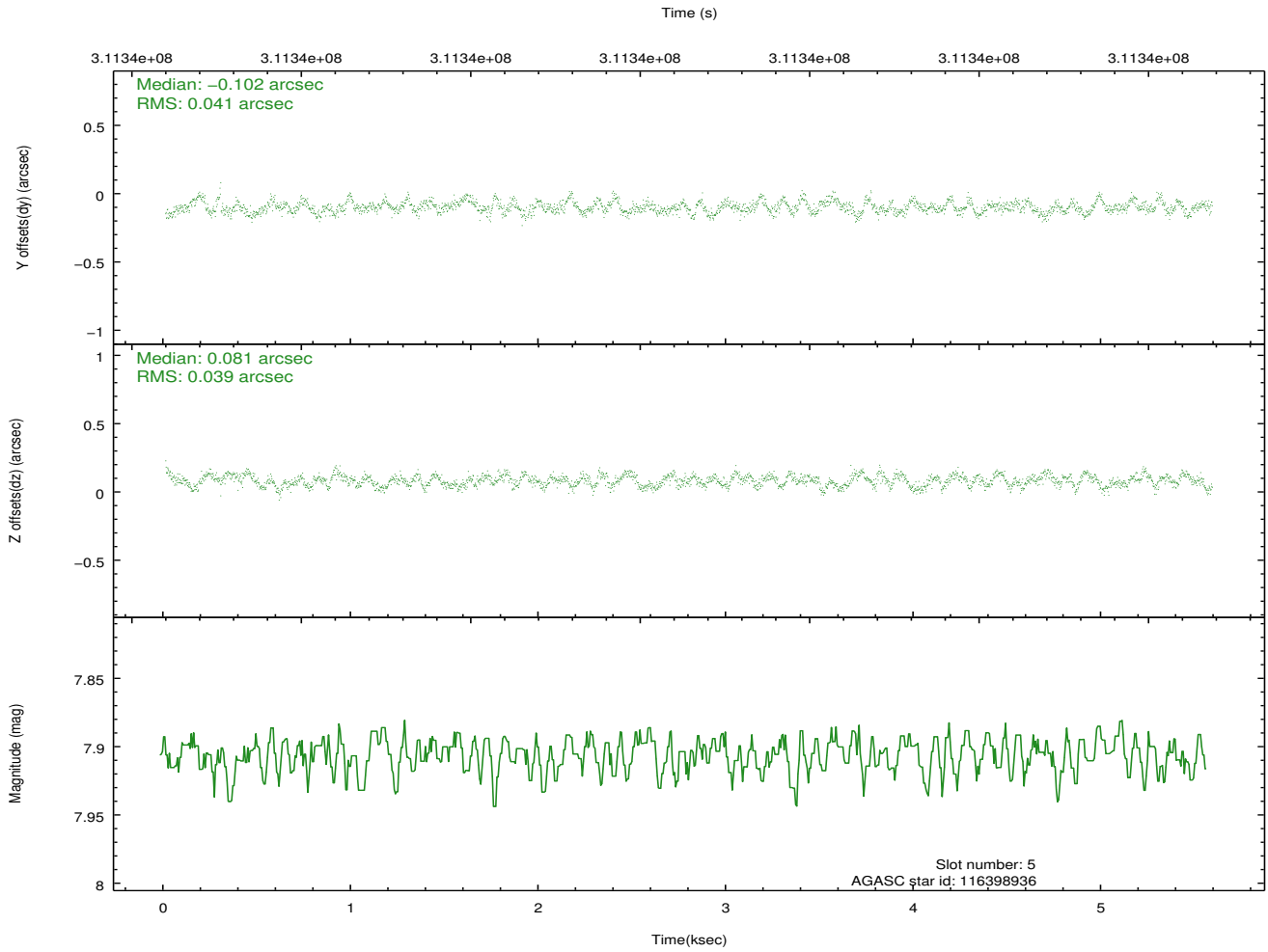
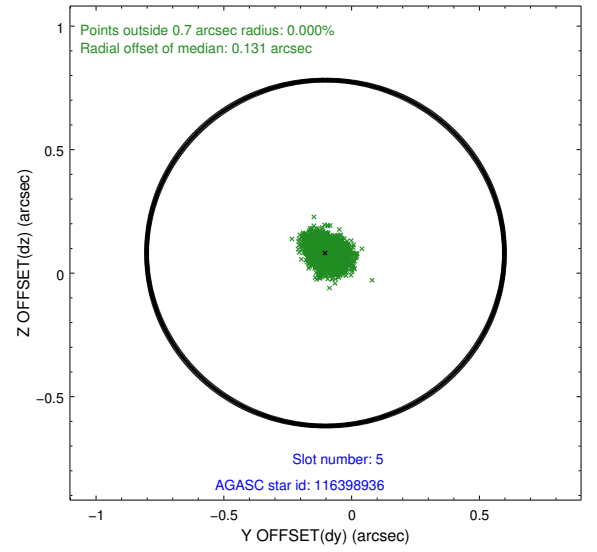
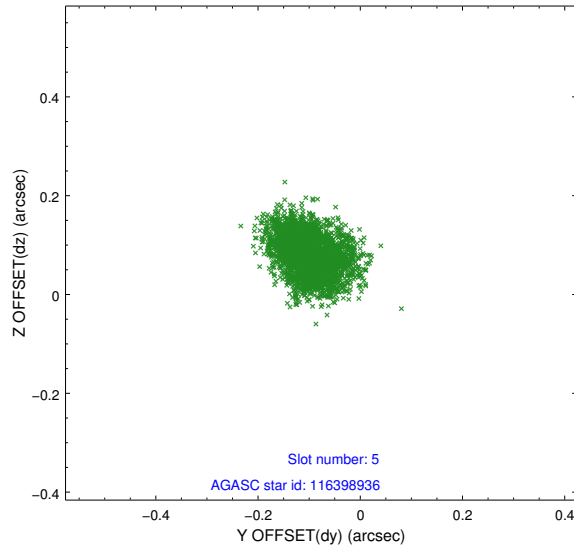
2.4.1 Slot 3



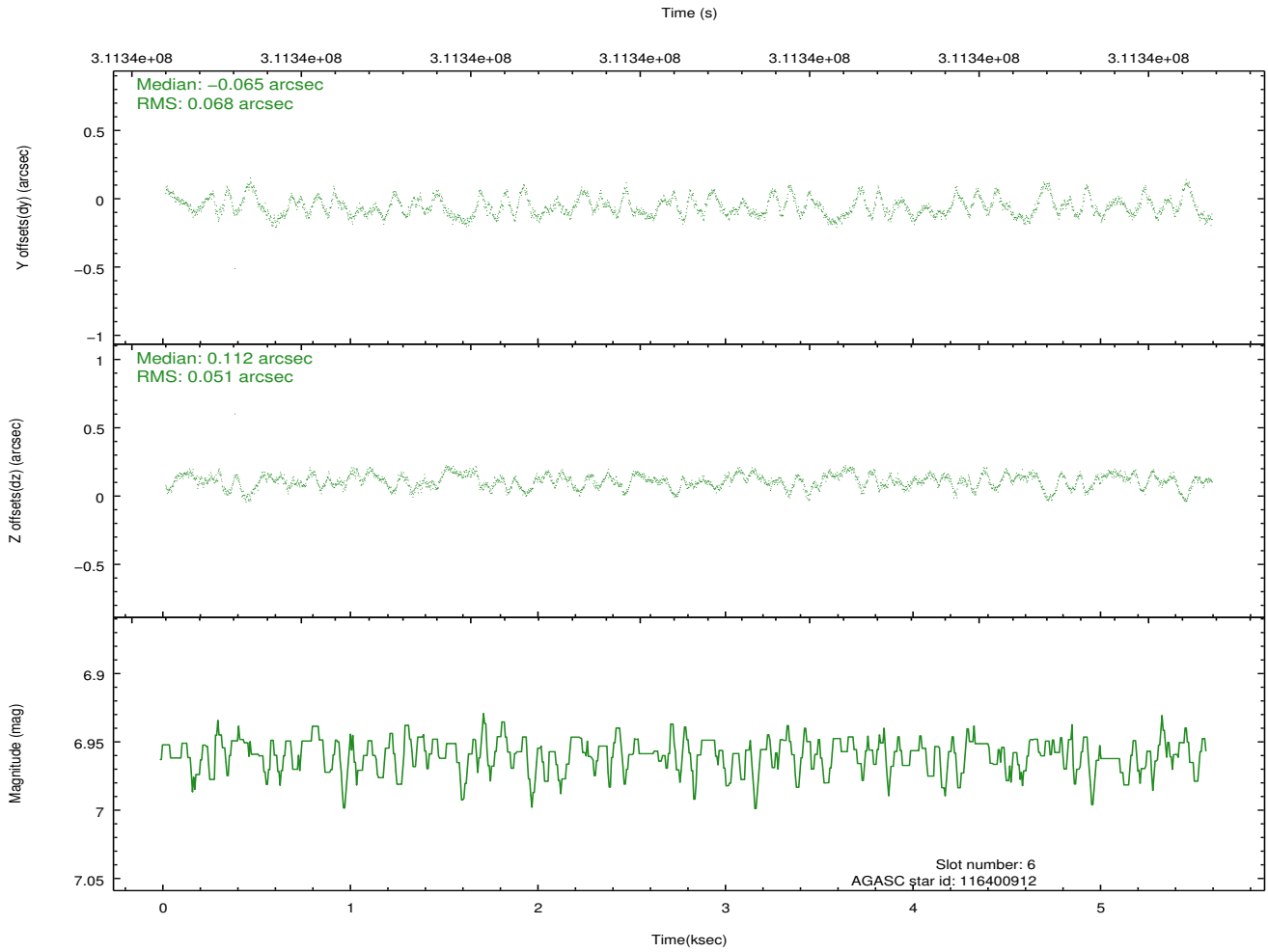
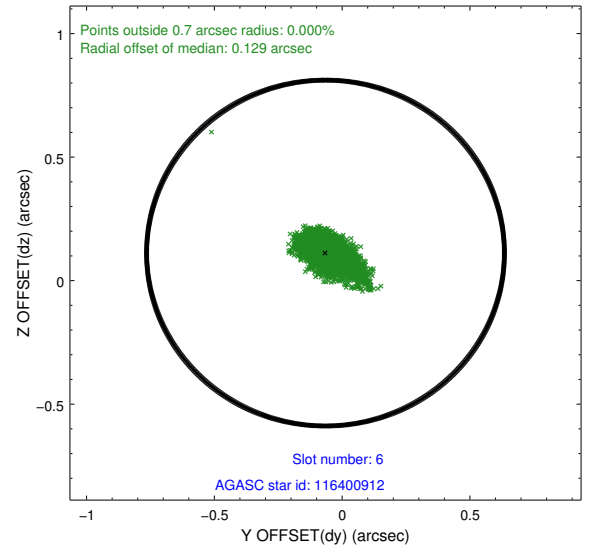
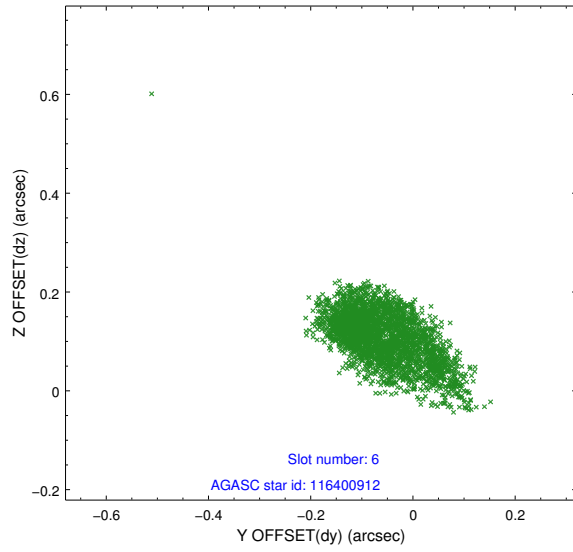
2.4.2 Slot 4



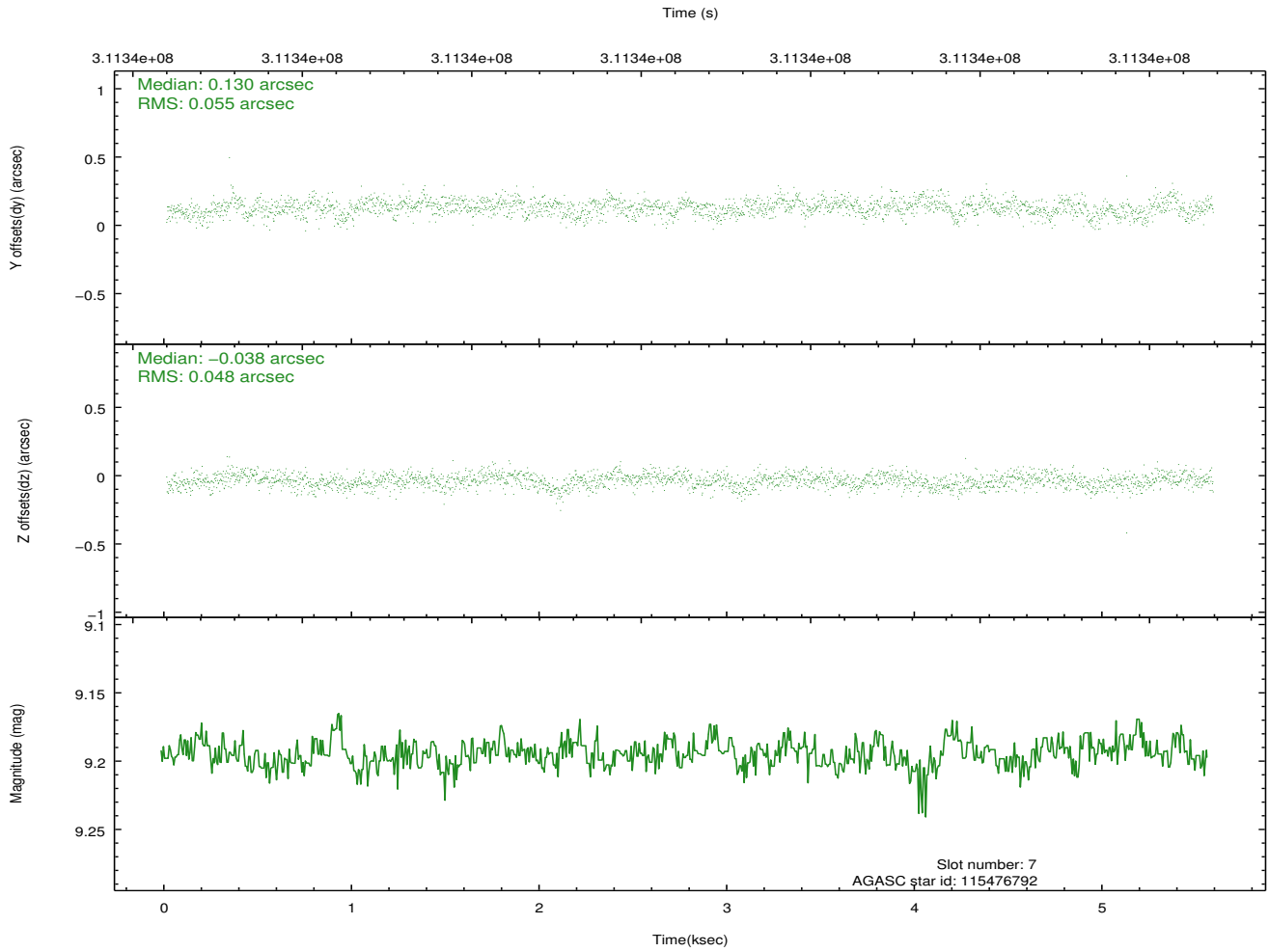
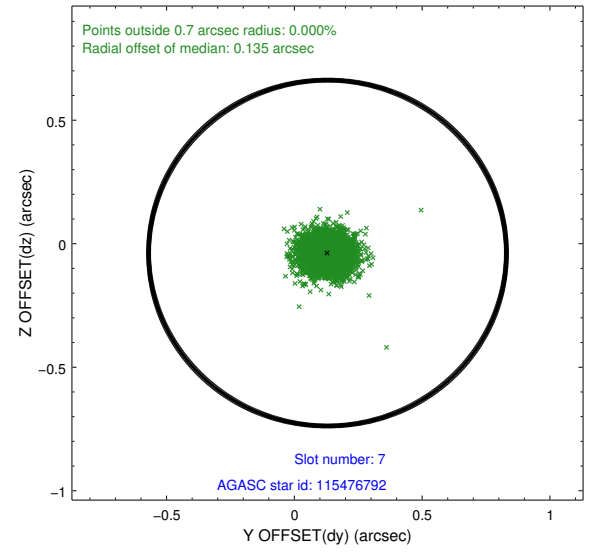
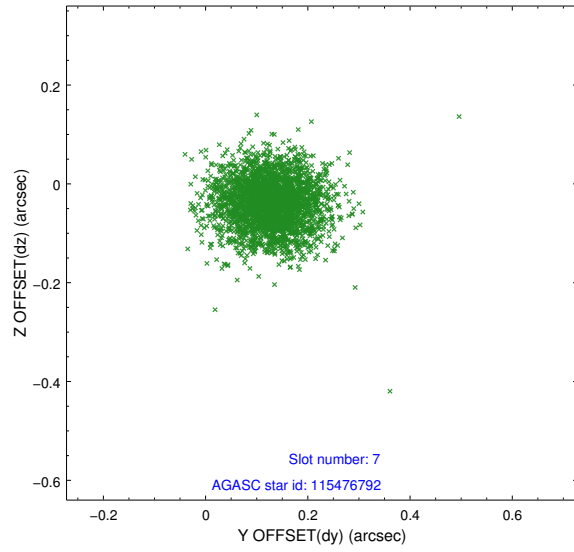
2.4.3 Slot 5



2.4.4 Slot 6

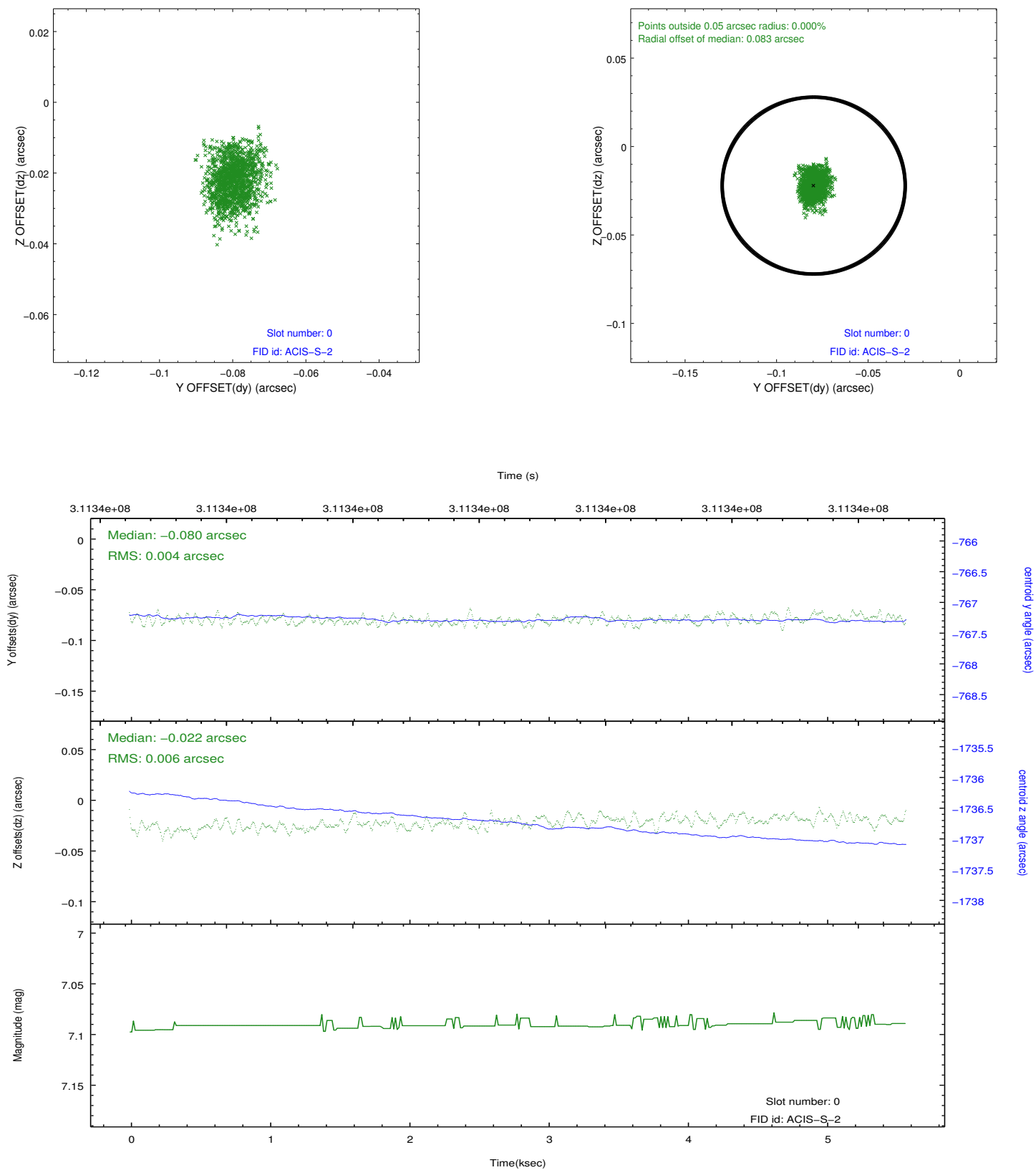


2.4.5 Slot 7

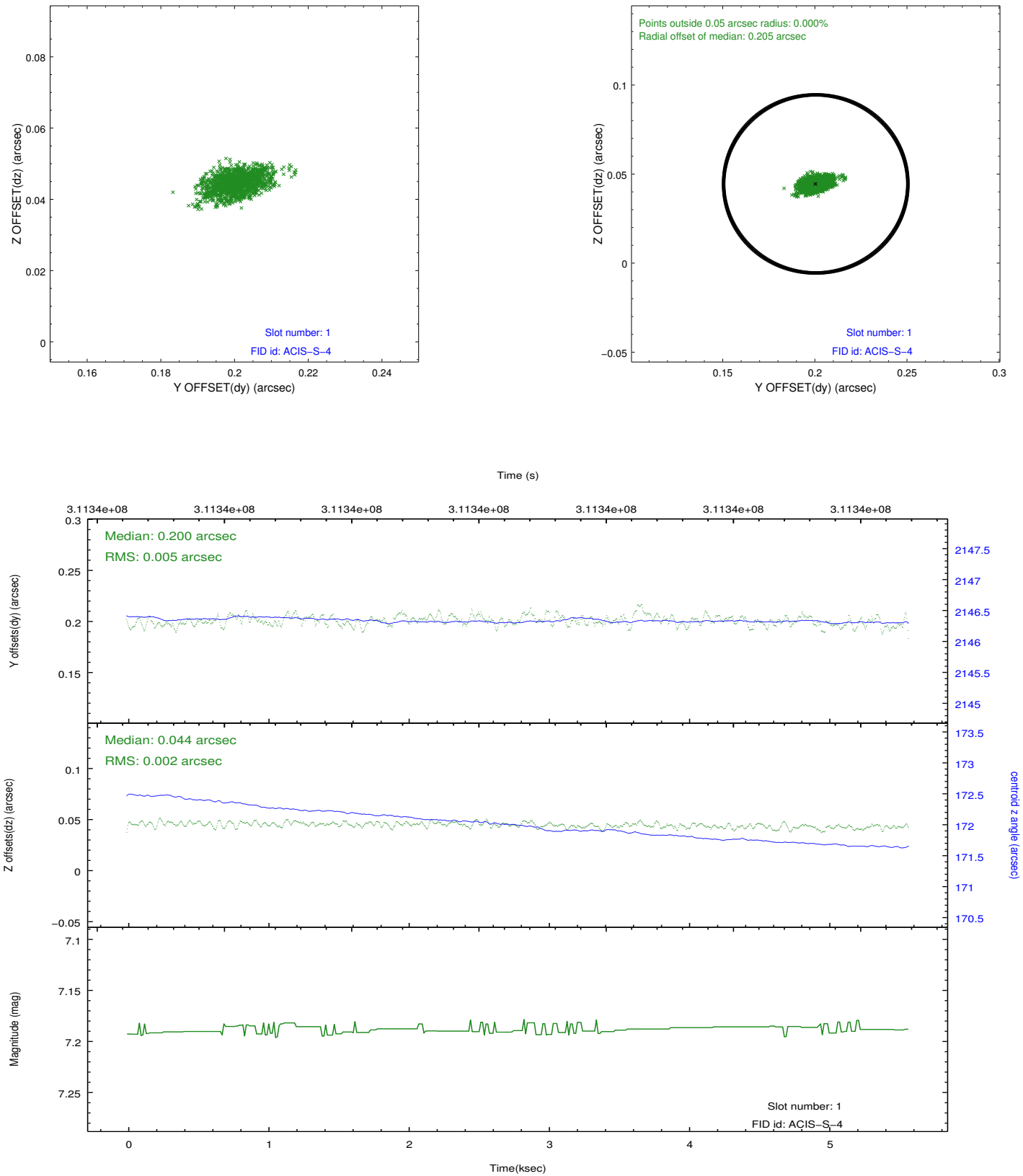


2.5 FID Slots

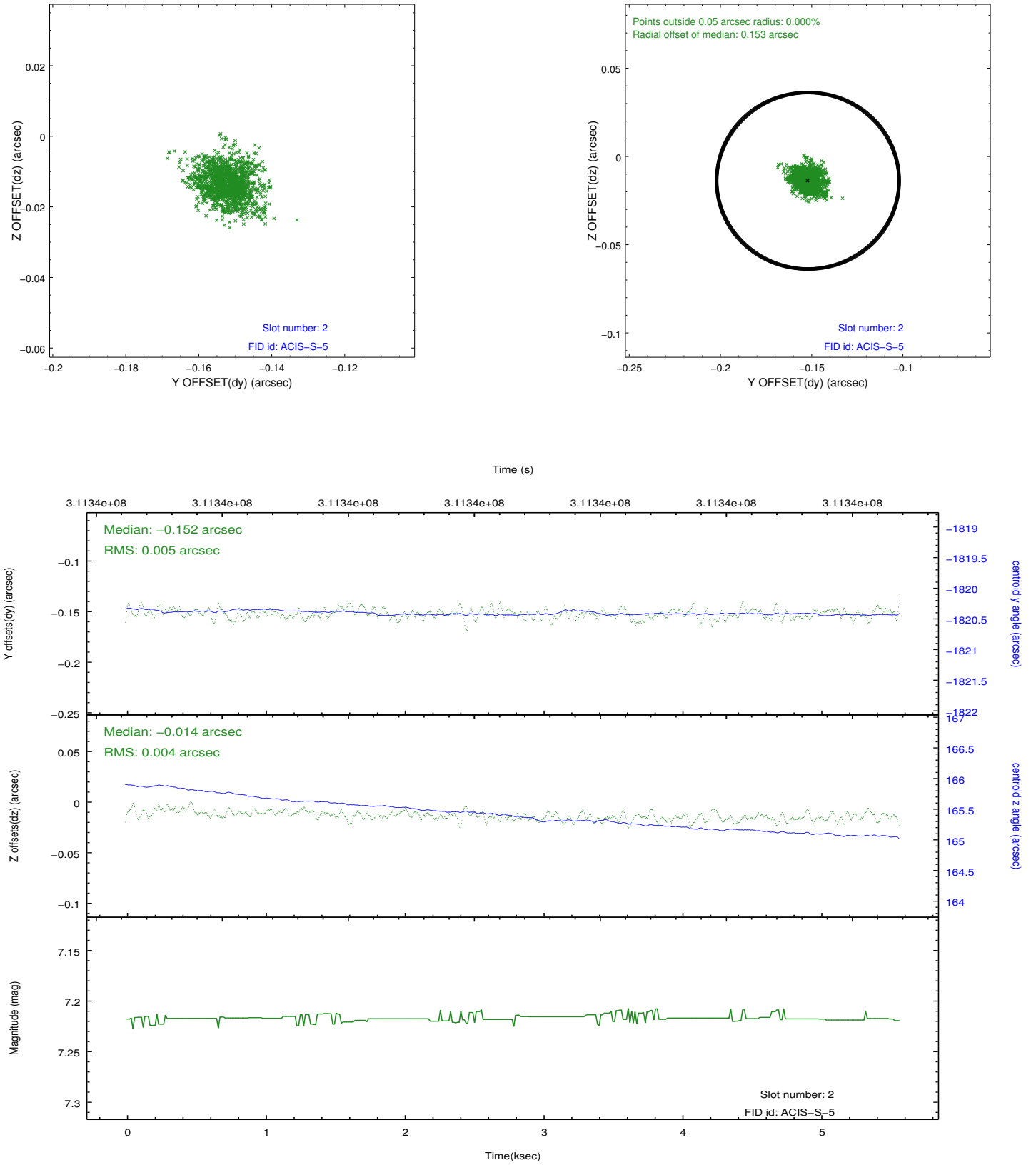
2.5.1 Slot 0



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)	2012.05.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.15519998

A.2 Comments

Joint with Spitzer.