

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 8039 - L2 Version 2
Chandra X-Ray Center

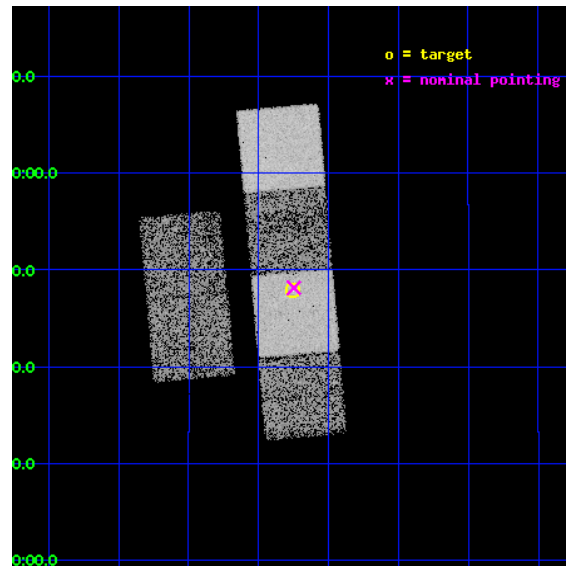
L2 Processing Date : May 9 2012

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1 Front

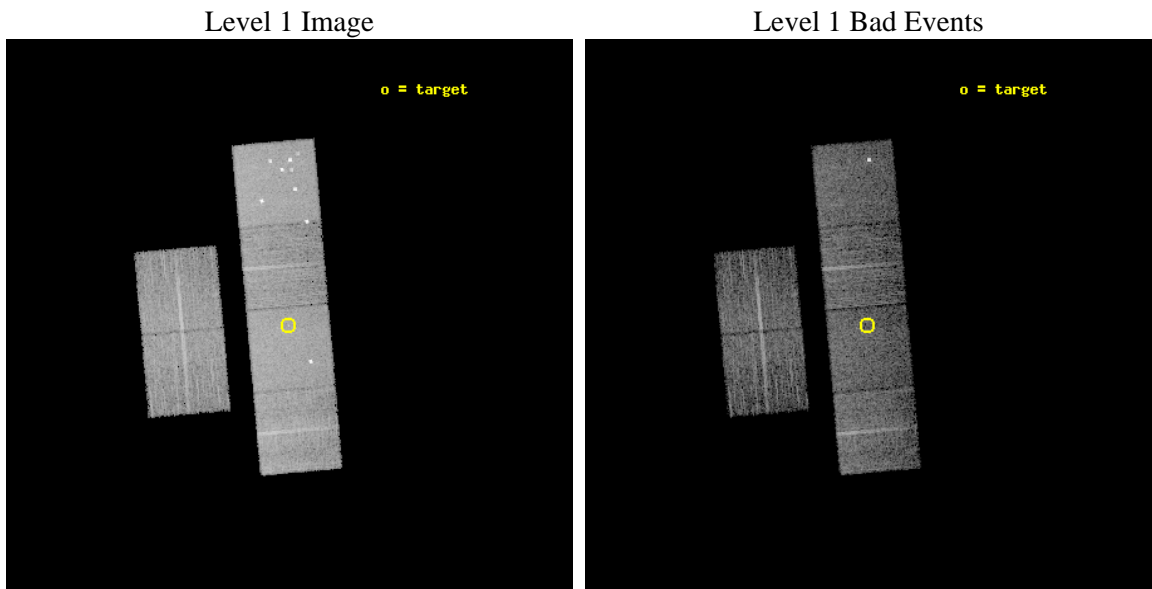
seq_num	900580	Sequence number
obs_id	8039	Observation id
title	The Duty Cycle of Supermassive Black Holes: X-raying Virgo	Proposa
observer	Prof Tommaso Treu	Principal investigator
object	369	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	184.939167	Observer's specified target RA [deg]
dec_targ	12.798417	Observer's specified target Dec [deg]
ra_nom	184.9368742628	Nominal RA [deg]
dec_nom	12.802635848246	Nominal Dec [deg]
roll_nom	84.939255398667	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5158.3999808431	Sum of GTIs [s]
livetime	5093.0812142701	Livetime [s]
ontime2	5158.3999808431	Sum of GTIs [s]
ontime3	5158.3999808431	Sum of GTIs [s]
ontime5	5158.3999808431	Sum of GTIs [s]
ontime6	5158.3999808431	Sum of GTIs [s]
ontime7	5158.3999808431	Sum of GTIs [s]
ontime8	5155.1589505672	Sum of GTIs [s]
l2events	79955	Number of level 2 events



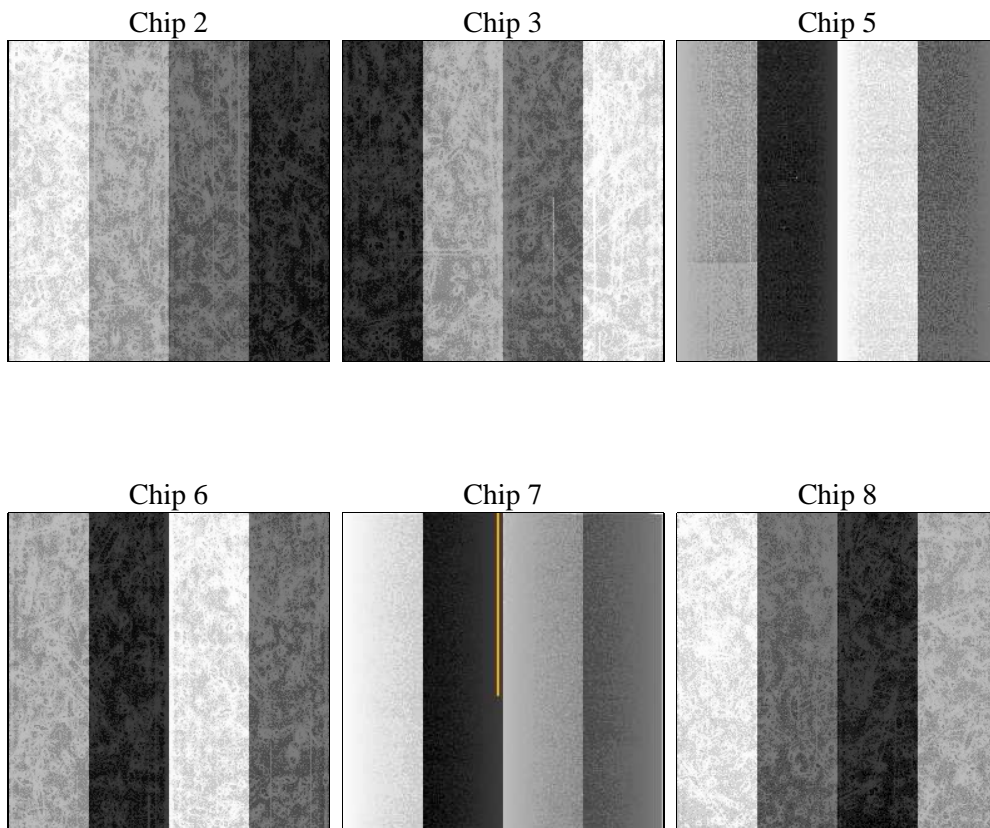
2 OBI

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	5158.3999808431	Sum of GTIs [s]
caldsver	4.4.9	 	ontime2	5158.3999808431	Sum of GTIs [s]
date	2012-05-09T18:37:41	Date and time of file creation	ontime3	5158.3999808431	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	5158.3999808431	Sum of GTIs [s]
			ontime6	5158.3999808431	Sum of GTIs [s]
			ontime7	5158.3999808431	Sum of GTIs [s]
			ontime8	5155.1589505672	Sum of GTIs [s]
			l1events	364087	Number of level 1 events

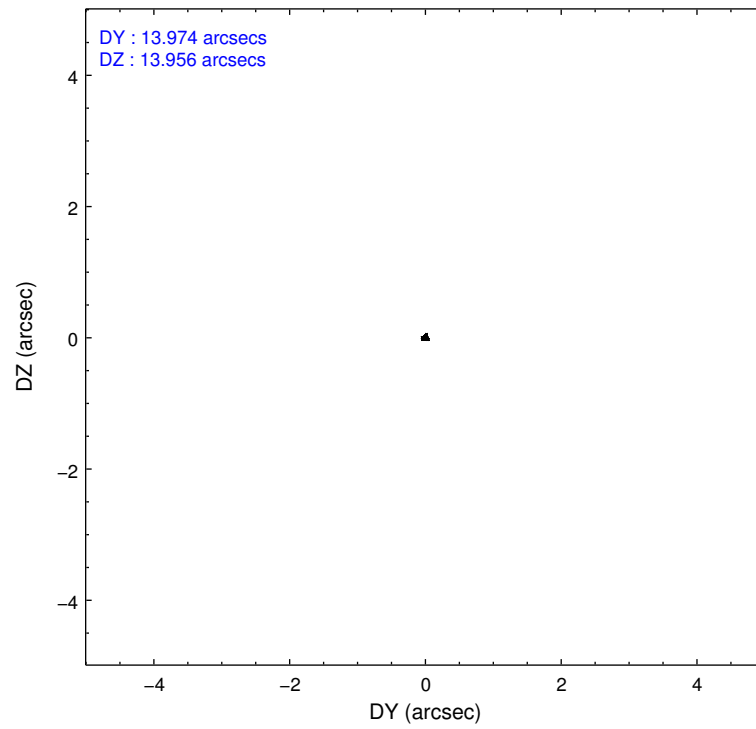
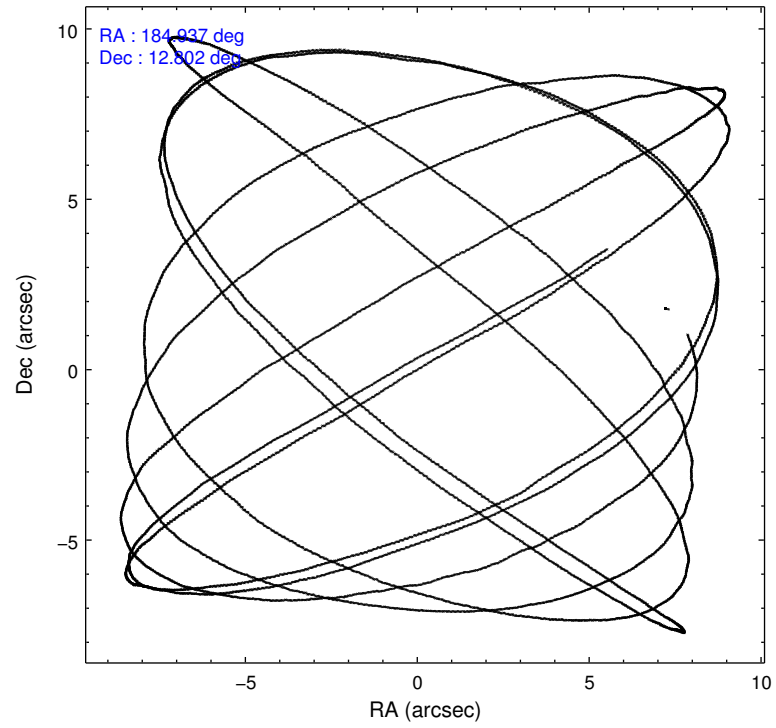
2.1.4 Events

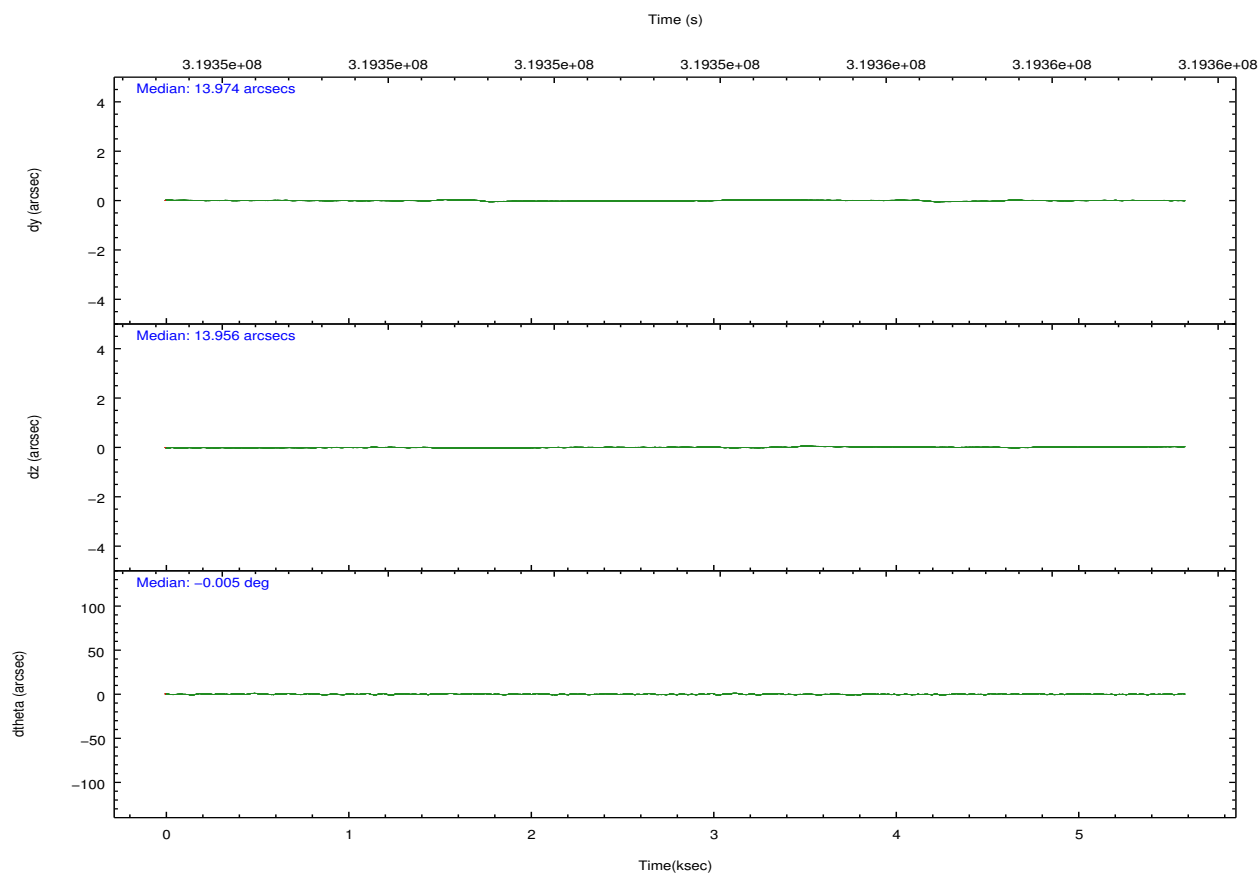
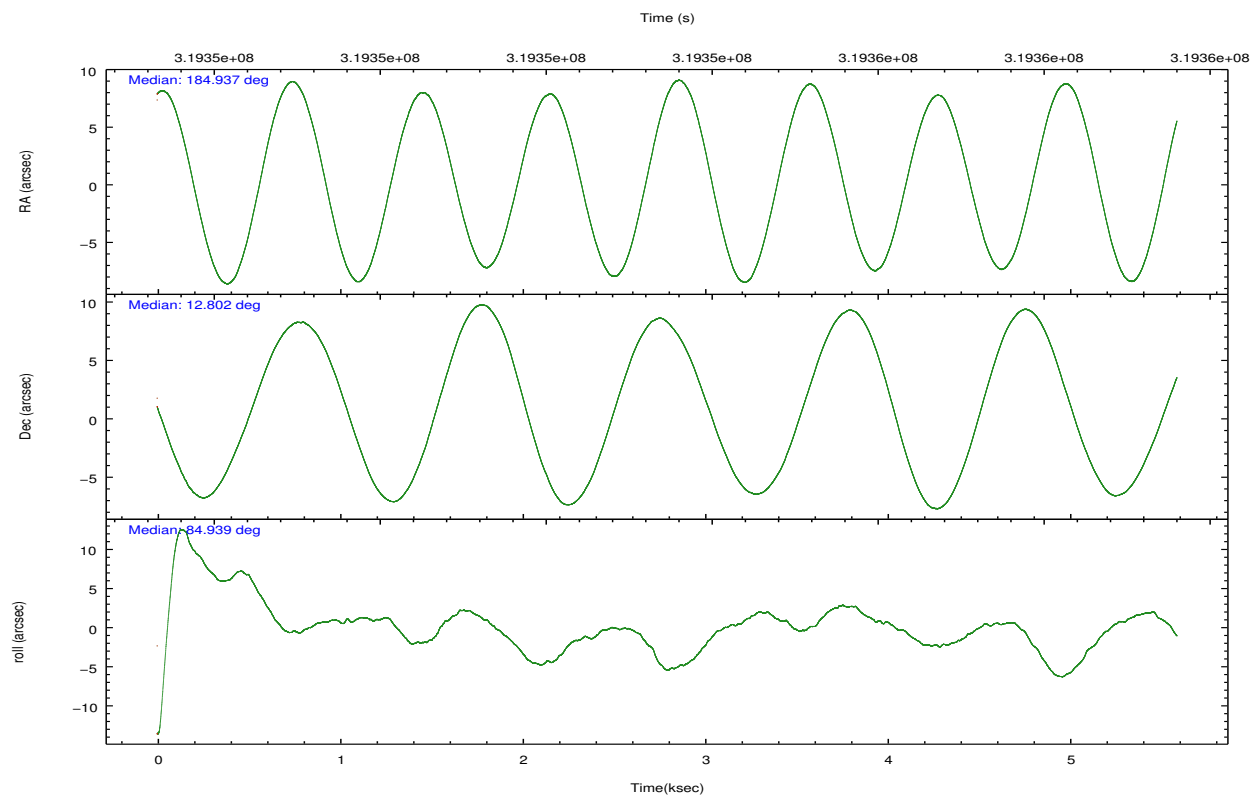
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	49488	48735	83700	49904	69333	62927	grade 0 events	2392	2492	7404	2307	3942	4436
rejected events	43906	42995	42758	44016	39988	49363		4%	5%	8%	4%	5%	7%
rejected %	88%	88%	51%	88%	57%	78%	grade 1 events	38	38	124	23	79	49
								0%	0%	0%	0%	0%	0%
							grade 2 events	1210	1101	11391	1322	5727	2935
								2%	2%	13%	2%	8%	4%
							grade 3 events	542	585	1164	521	2324	1342
								1%	1%	1%	1%	3%	2%
							grade 4 events	501	558	1115	555	2256	1295
								1%	1%	1%	1%	3%	2%
							grade 5 events	1957	2224	5283	2348	6289	2968
								3%	4%	6%	4%	9%	4%
							grade 6 events	941	1006	19902	1191	15113	3560
								1%	2%	23%	2%	21%	5%
							grade 7 events	41907	40731	37317	41637	33603	46342
								84%	83%	44%	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	184.949101	184.9368742628005	CCD I2 on	O1	Y
[deg] Pointing Dec	12.778119	12.80263584824646	CCD I3 on	O2	Y
[deg] Pointing Roll	84.779972	84.9392553986665	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)	319351126.184000	319350609.60048	CCD S5 on	N	N
Observation start date	2008-02-14T04:37:41	2008-02-14T04:30:09	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	319356526.184000	319356802.65078	On-chip summing requested	N	N
Observation end date	2008-02-14T06:07:41	2008-02-14T06:13:22	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



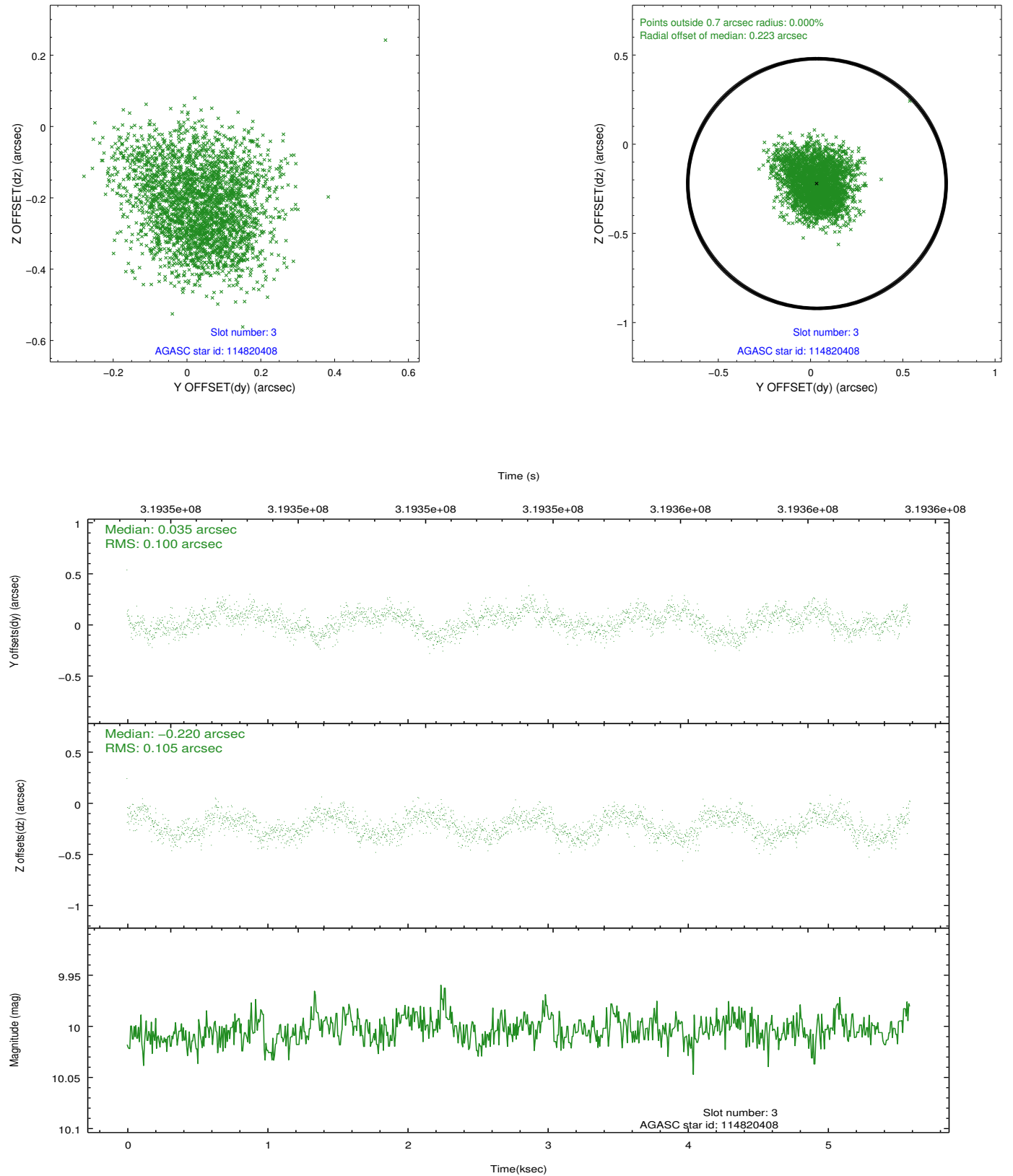


Slot Statistics

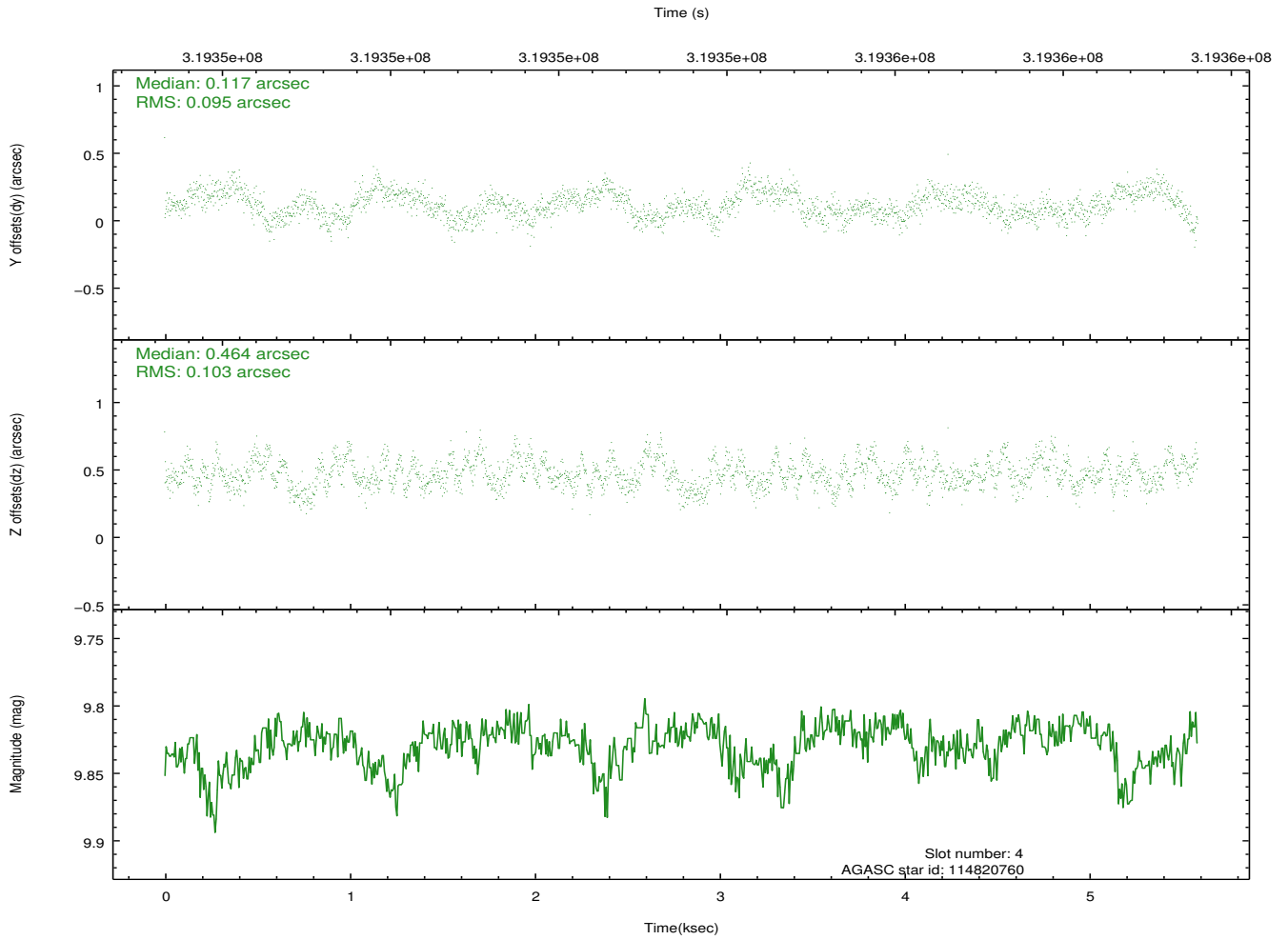
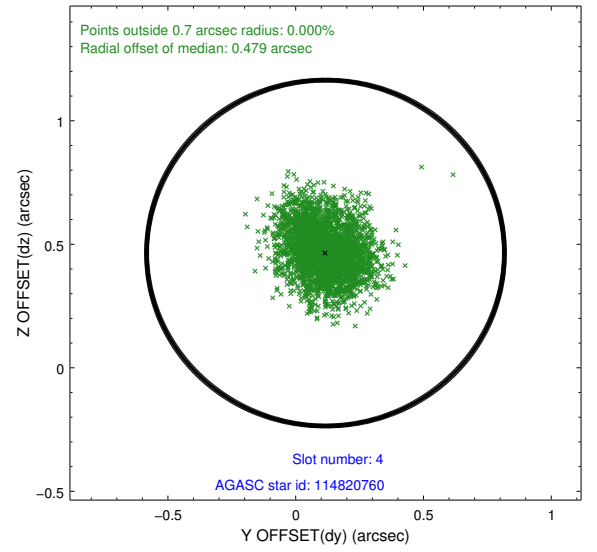
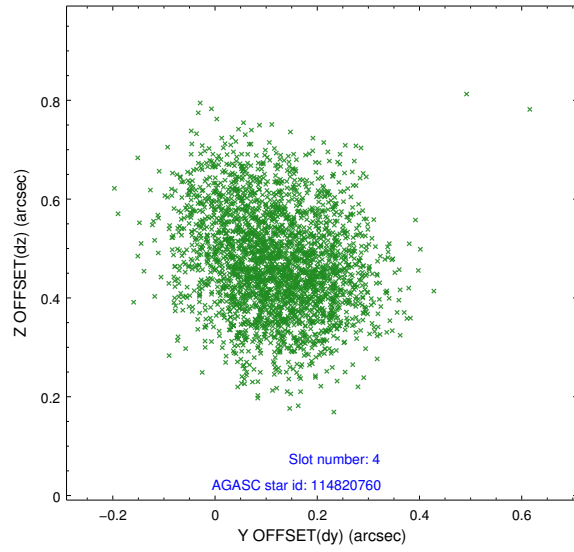
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.19	1363	0.050	-0.016	0.007	0.011	0.000000	0.000000	929.16	-1730.91
1	FID	ACIS-S-4	7.19	1364	0.139	-0.009	0.006	0.011	0.000000	0.000000	2147.25	172.14
2	FID	ACIS-S-5	7.23	1364	-0.216	0.037	0.006	0.011	0.000000	0.000000	-1818.60	167.01
3	GUIDE	114820408	10.00	2721	0.035	-0.220	0.156	0.244	184.593209	12.468607	-1221.65	1144.51
4	GUIDE	114820760	9.83	2725	0.117	0.464	0.152	0.240	185.391534	12.472874	-950.96	-1647.50
5	GUIDE	115214832	9.63	2722	-0.130	0.053	0.150	0.237	185.203443	13.310810	1991.72	-713.11
6	GUIDE	115215744	9.59	2723	0.169	-0.096	0.108	0.177	185.354799	12.680023	-218.87	-1450.14
7	GUIDE	115215848	9.21	2722	-0.190	-0.221	0.081	0.132	184.751418	13.367171	2049.67	881.98

2.4 Star Slots

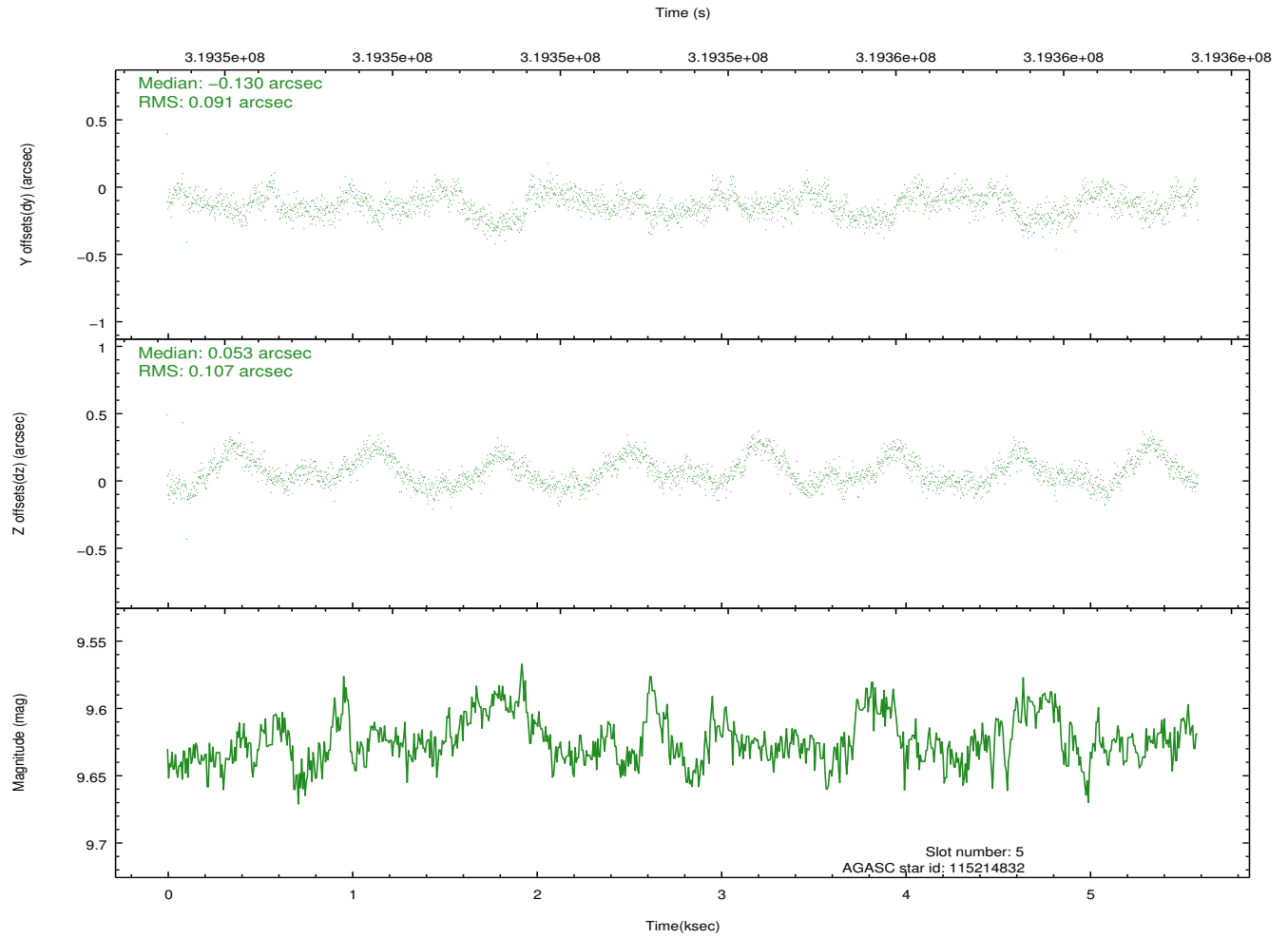
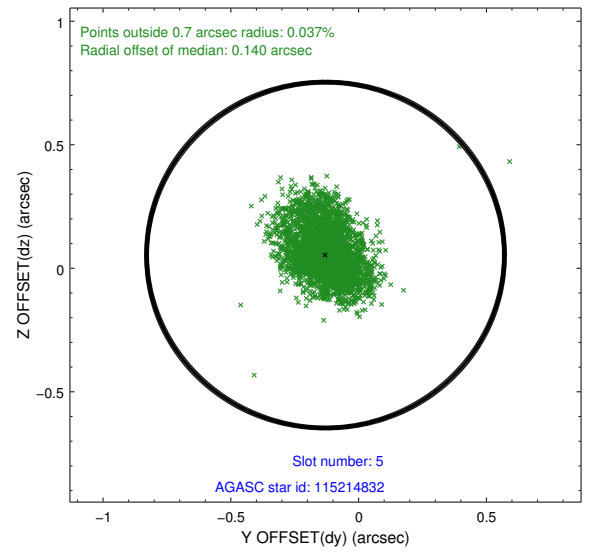
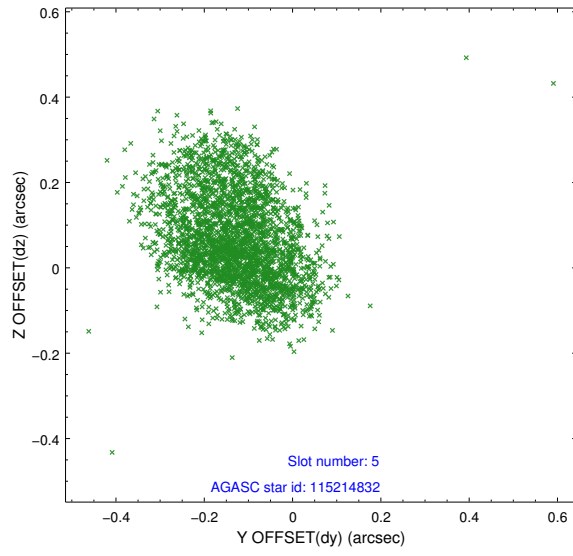
2.4.1 Slot 3



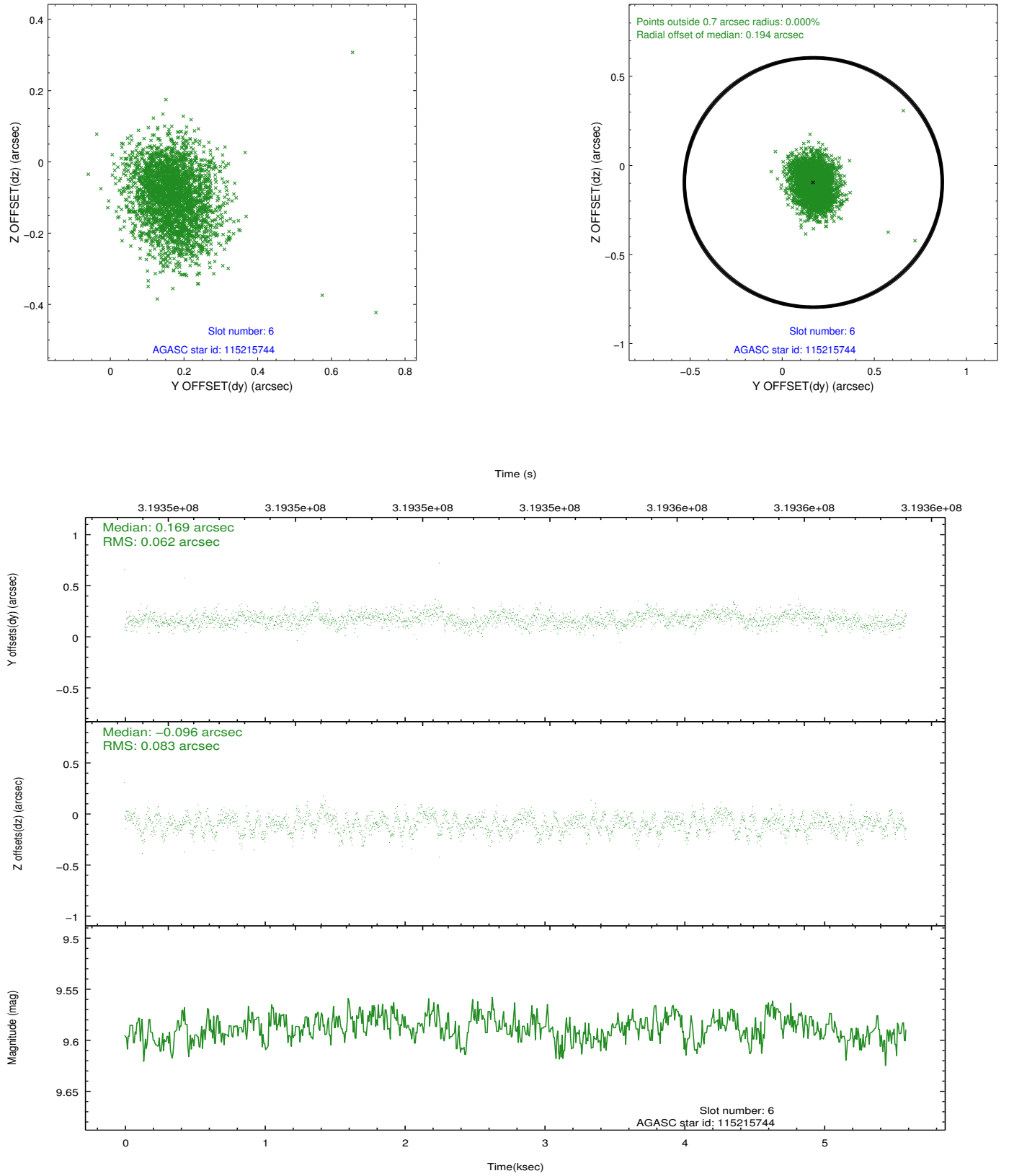
2.4.2 Slot 4



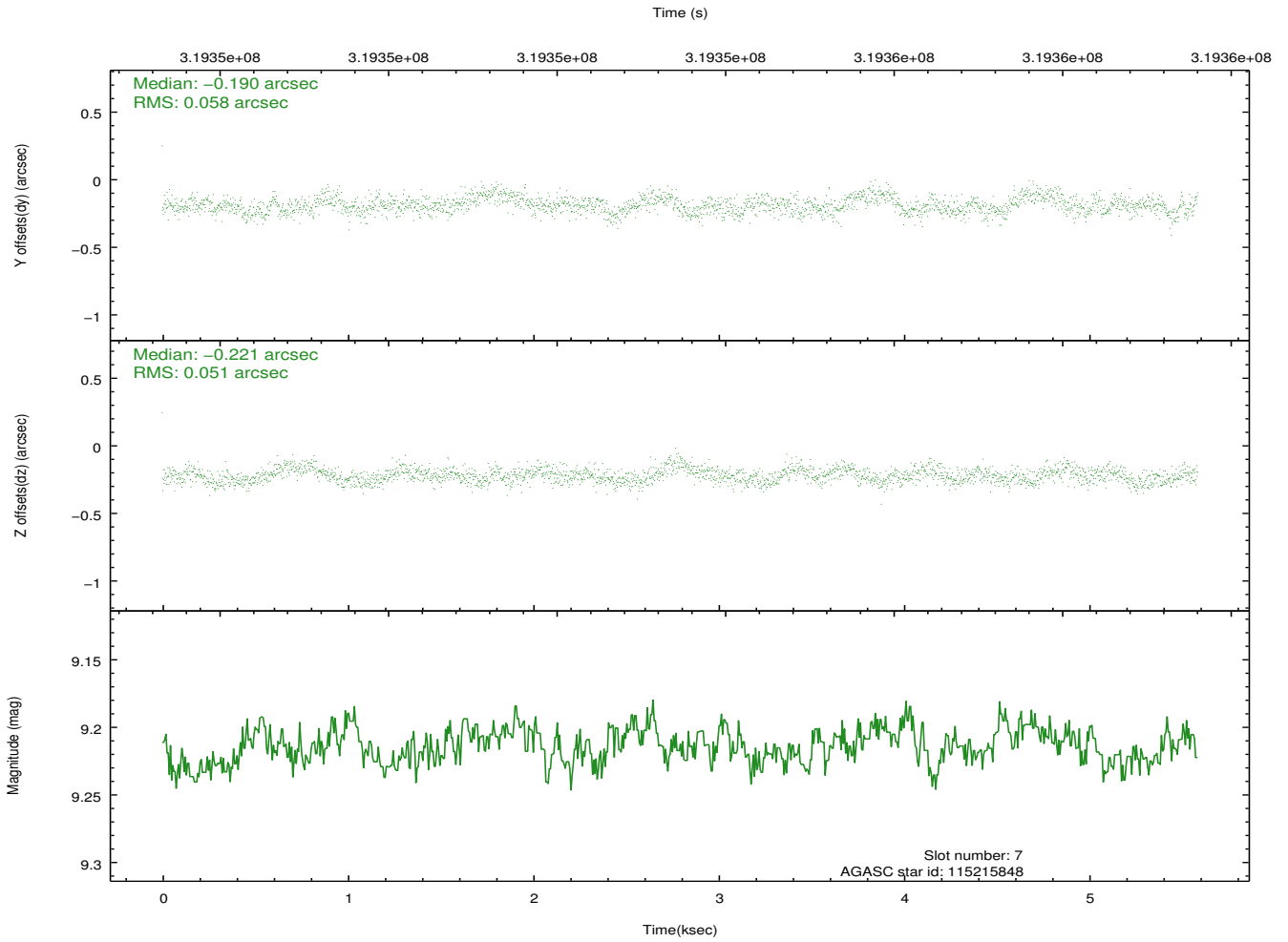
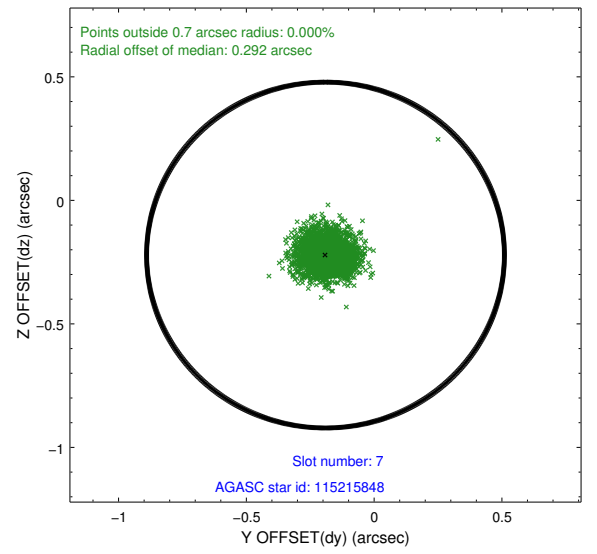
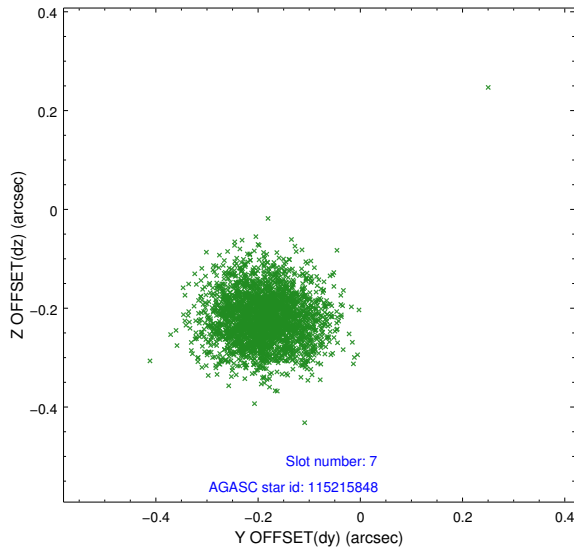
2.4.3 Slot 5



2.4.4 Slot 6

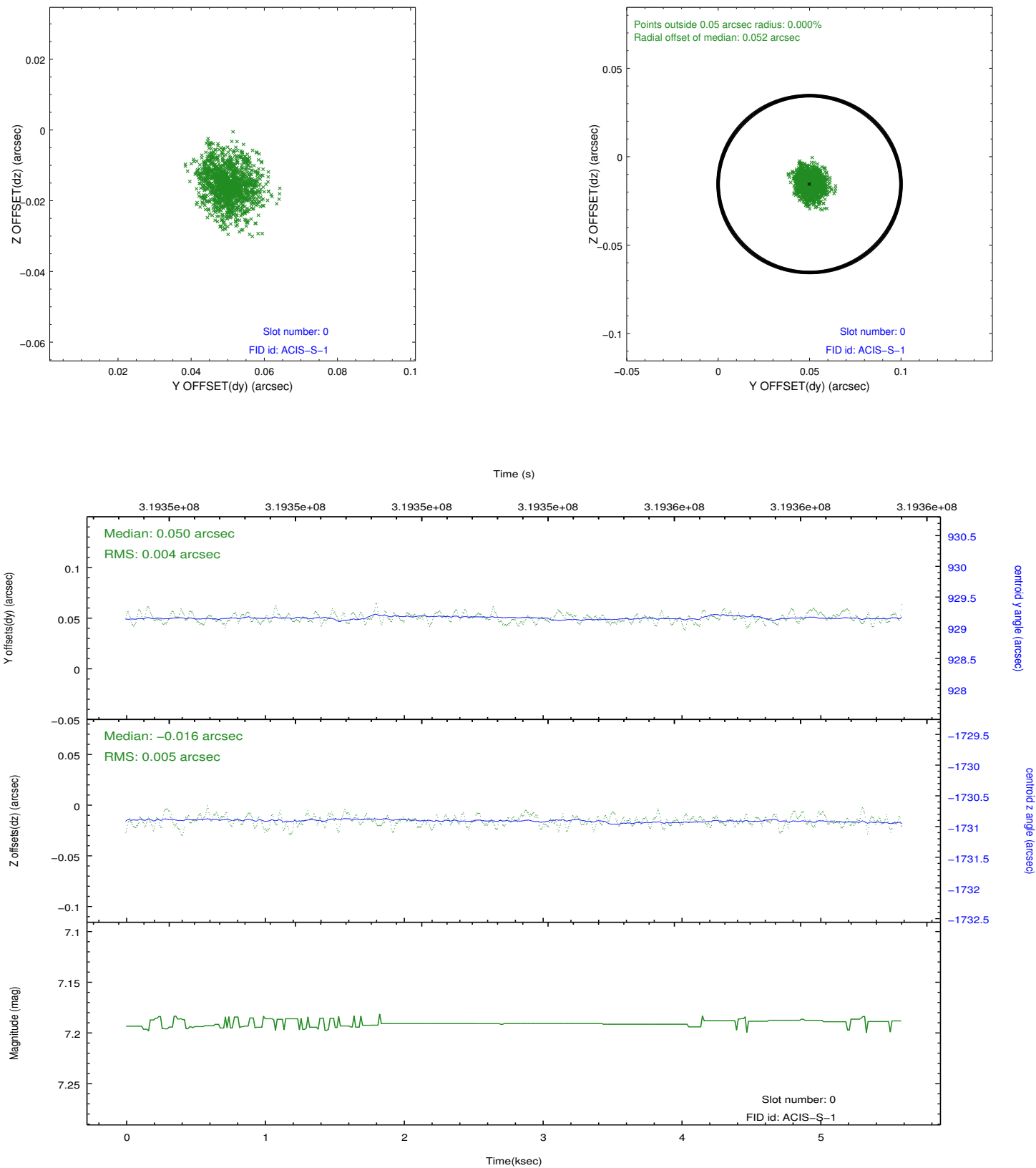


2.4.5 Slot 7

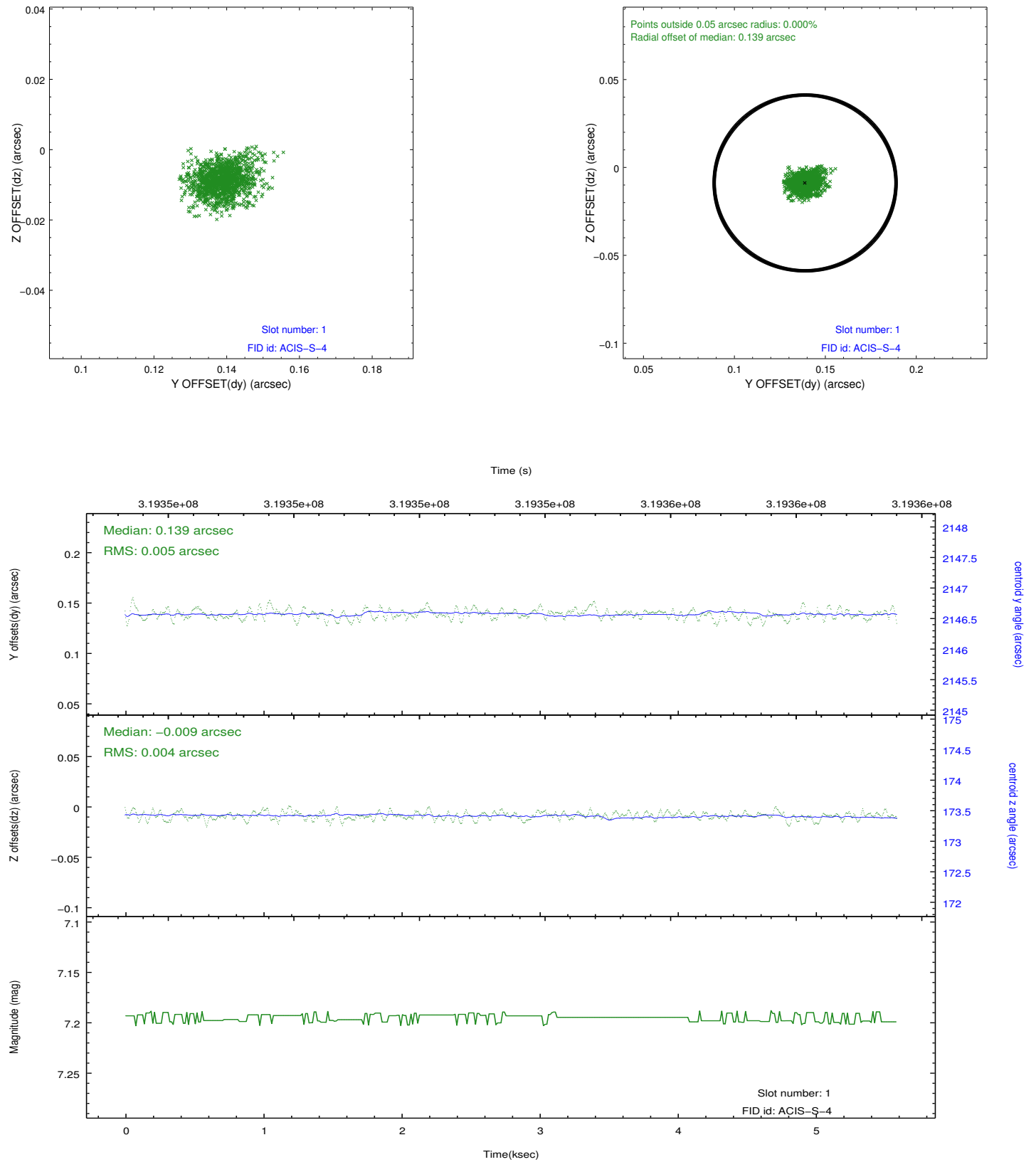


2.5 FID Slots

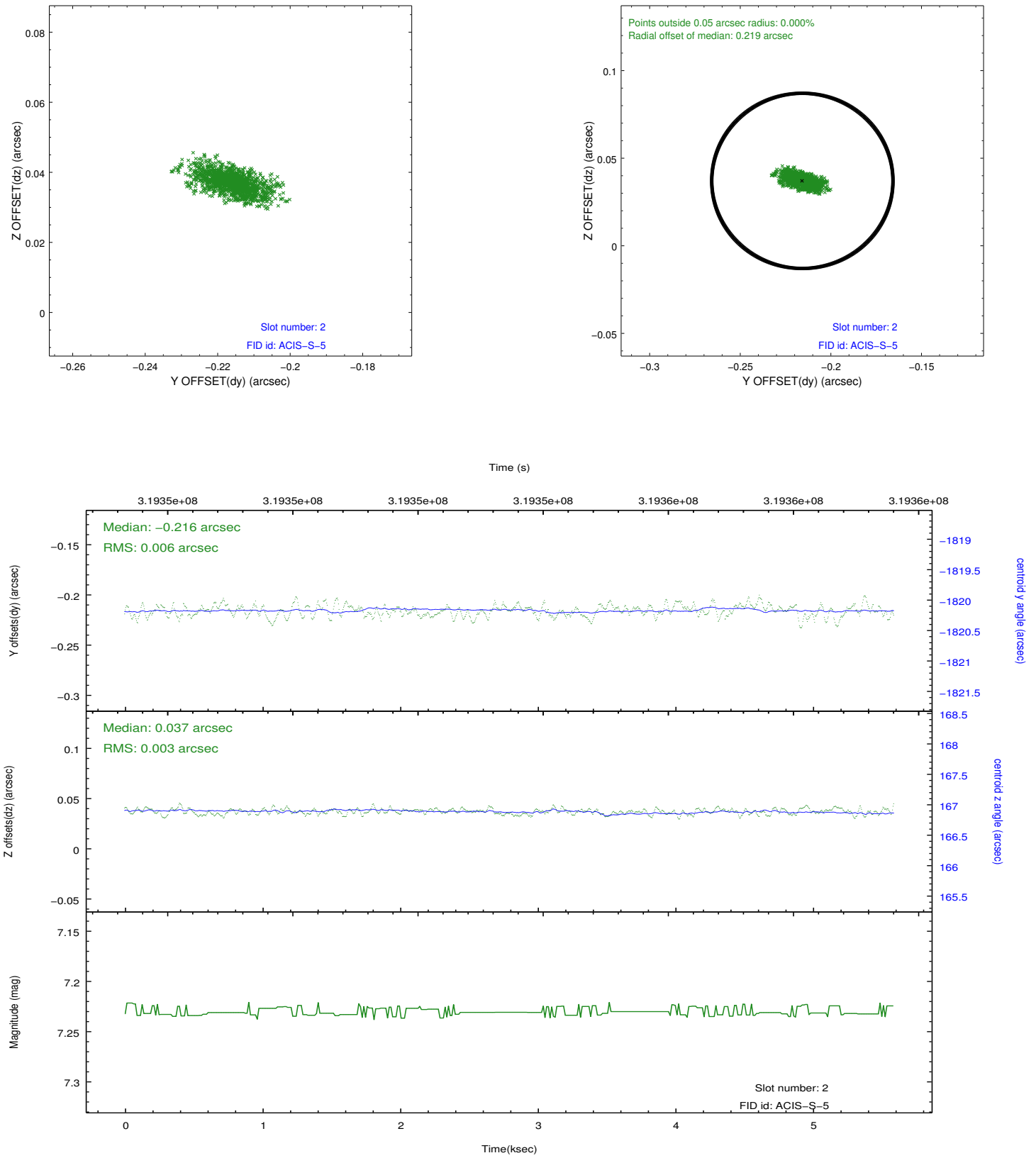
2.5.1 Slot 0



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)	2012.05.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.15839998

A.2 Comments

Joint proposal: Spitzer