

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 8087 - L2 Version 2
Chandra X-Ray Center

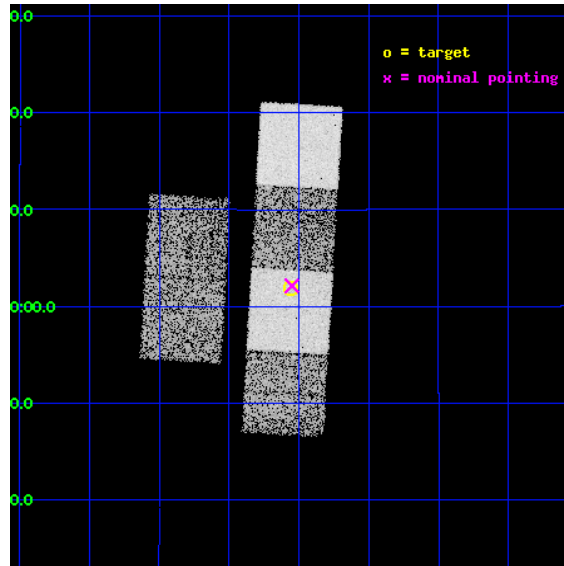
L2 Processing Date : May 10 2012

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1 Front

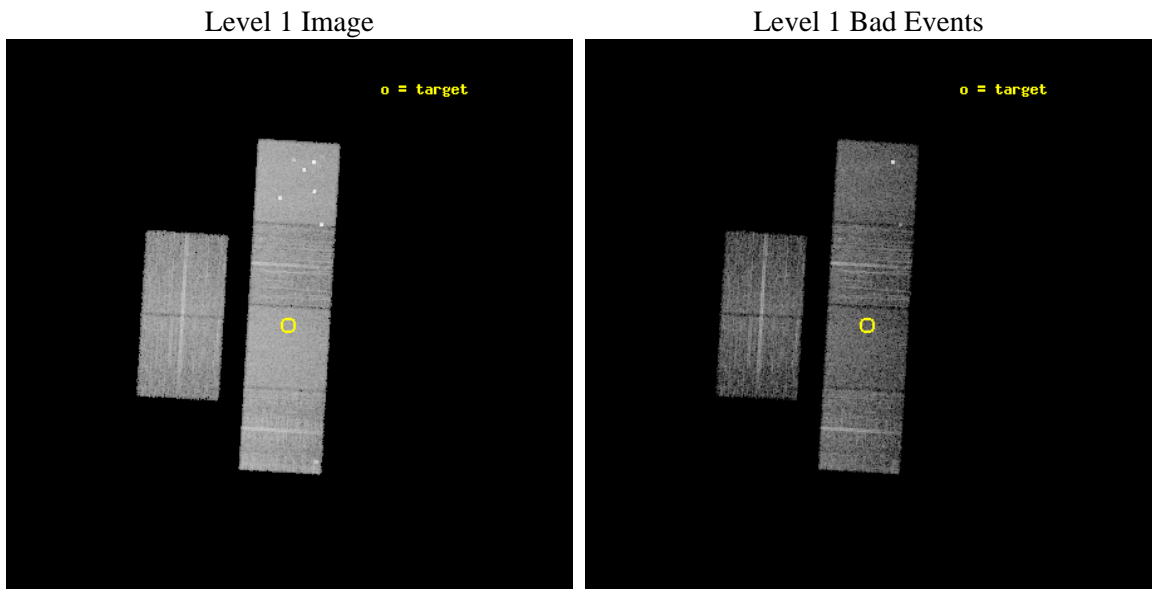
seq_num	900628	Sequence number
obs_id	8087	Observation id
title	The Duty Cycle of Supermassive Black Holes: X-raying Virgo	Proposa
observer	Prof Tommaso Treu	Principal investigator
object	200	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	184.140417	Observer's specified target RA [deg]
dec_targ	13.031417	Observer's specified target Dec [deg]
ra_nom	184.13754357613	Nominal RA [deg]
dec_nom	13.035423460847	Nominal Dec [deg]
roll_nom	93.338678445246	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5158.3999808431	Sum of GTIs [s]
livetime	5093.0812142701	Livetime [s]
ontime2	5155.1589605808	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	5151.9179599881	Sum of GTIs [s]
l2events	82777	Number of level 2 events



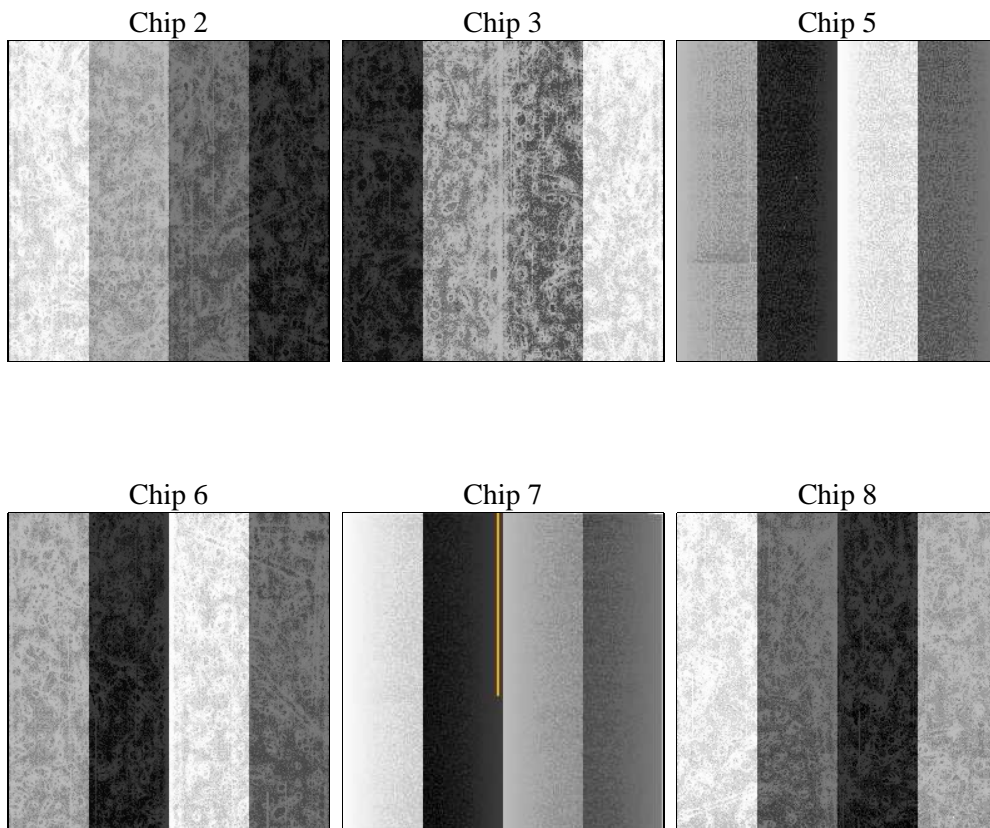
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	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	5155.1589605808	Sum of GTIs [s]
date	2012-05-10T08:27:35	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	5151.9179599881	Sum of GTIs [s]
			l1events	371812	Number of level 1 events

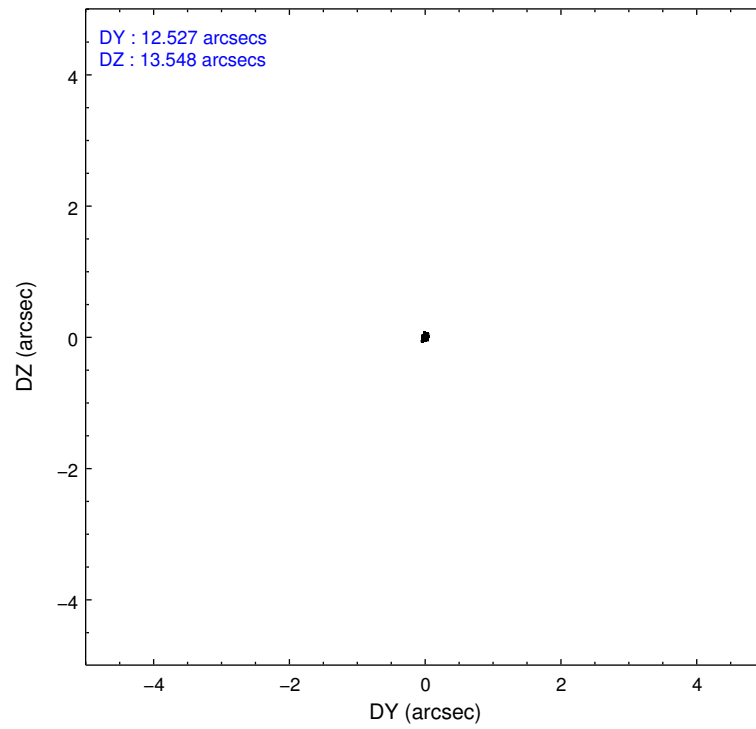
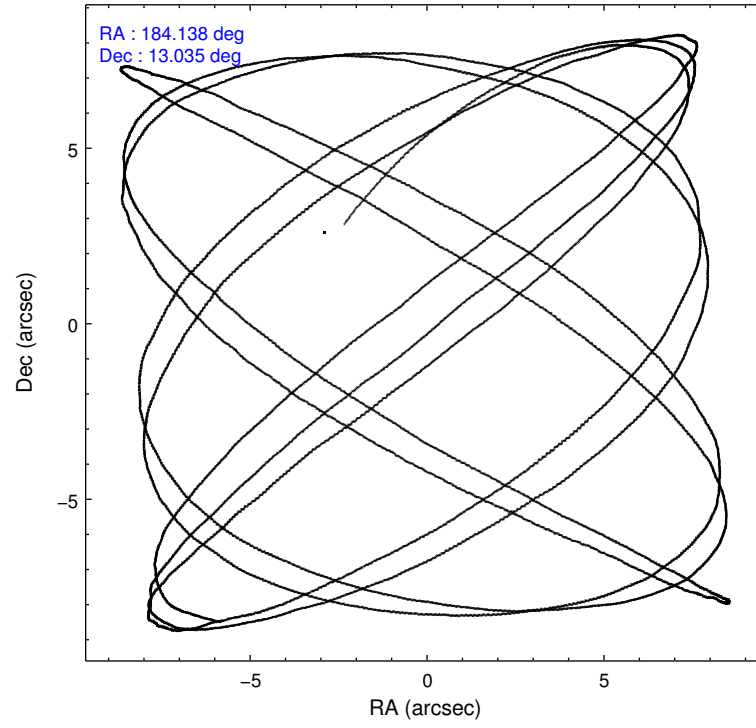
2.1.4 Events

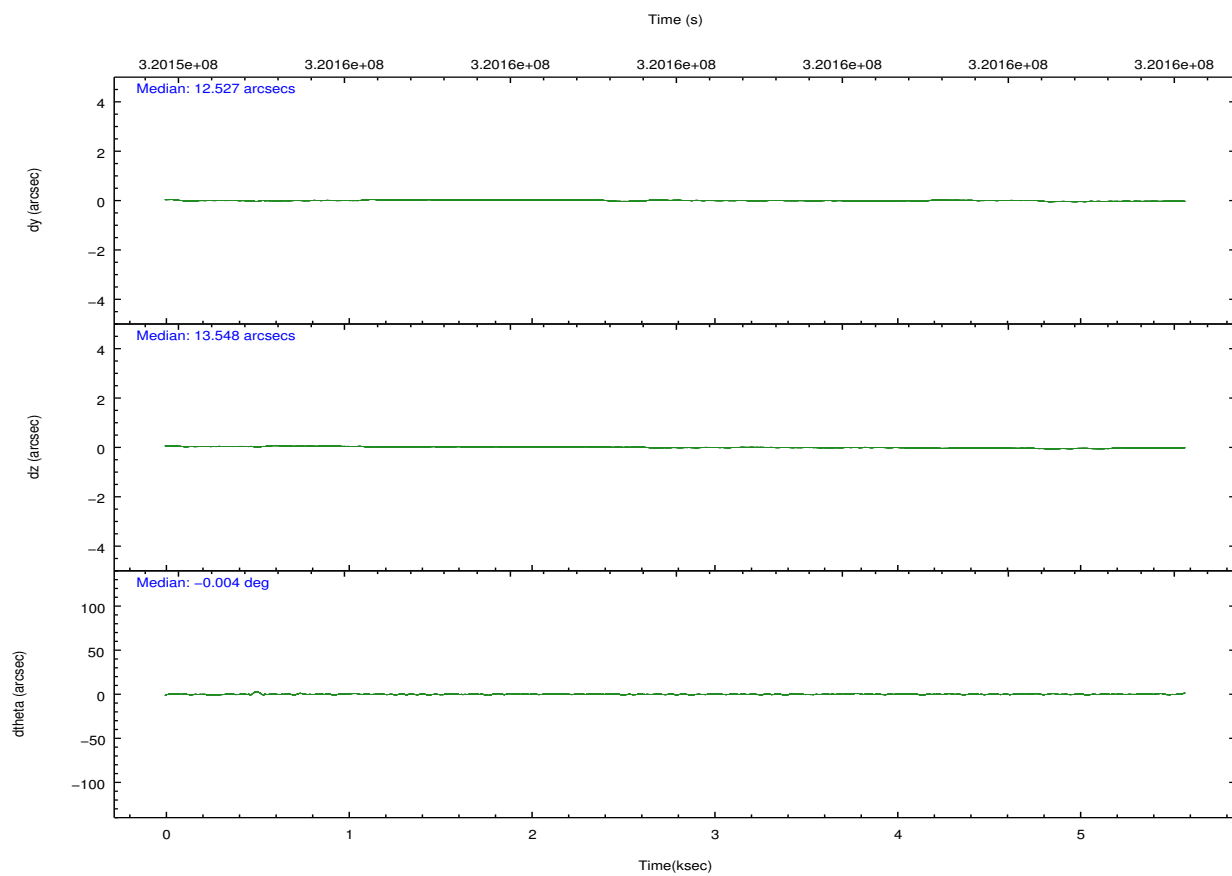
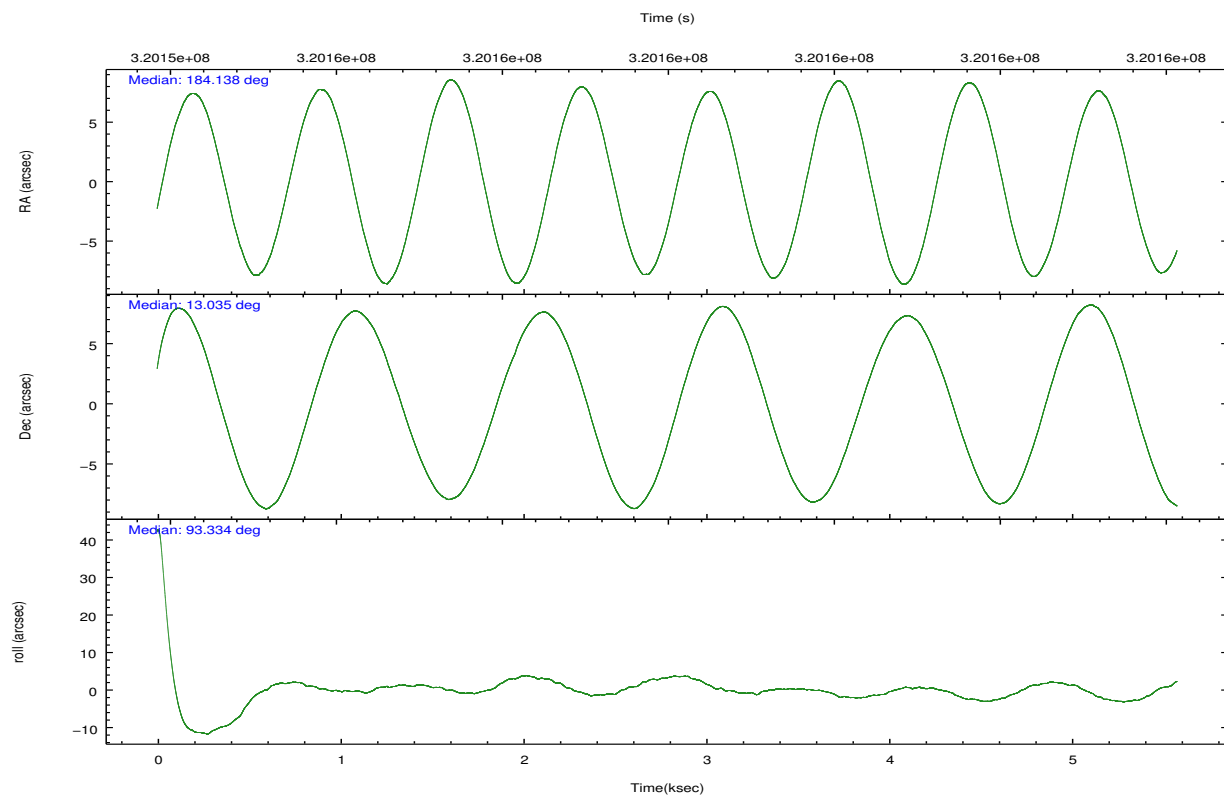
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	49587	47906	85190	52661	69669	66799	grade 0 events	2396	2545	6776	2271	2430	4997
rejected events	43836	42048	43748	46691	40908	52039		4%	5%	7%	4%	3%	7%
rejected %	88%	87%	51%	88%	58%	77%	grade 1 events	27	28	96	31	73	54
								0%	0%	0%	0%	0%	0%
							grade 2 events	1302	1144	11537	1348	5934	3096
								2%	2%	13%	2%	8%	4%
							grade 3 events	523	581	1338	548	2332	1564
								1%	1%	1%	1%	3%	2%
							grade 4 events	549	546	1162	591	2401	1462
								1%	1%	1%	1%	3%	2%
							grade 5 events	2027	2384	5606	2377	6479	3096
								4%	4%	6%	4%	9%	4%
							grade 6 events	984	1047	20657	1216	15682	3644
								1%	2%	24%	2%	22%	5%
							grade 7 events	41779	39631	38018	44279	34338	48886
								84%	82%	44%	84%	49%	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	184.153307	184.1375435761344	CCD I2 on	O1	Y
[deg] Pointing Dec	13.012753	13.0354234608466	CCD I3 on	O2	Y
[deg] Pointing Roll	93.178371	93.3386784452458	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	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	O4	Y
[s] Observation start time (MET)	320154379.184000	320153888.30197	CCD S5 on	N	N
Observation start date	2008-02-23T11:45:14	2008-02-23T11:38:08	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	320159779.184000	320160116.71477	On-chip summing requested	N	N
Observation end date	2008-02-23T13:15:14	2008-02-23T13:21:56	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



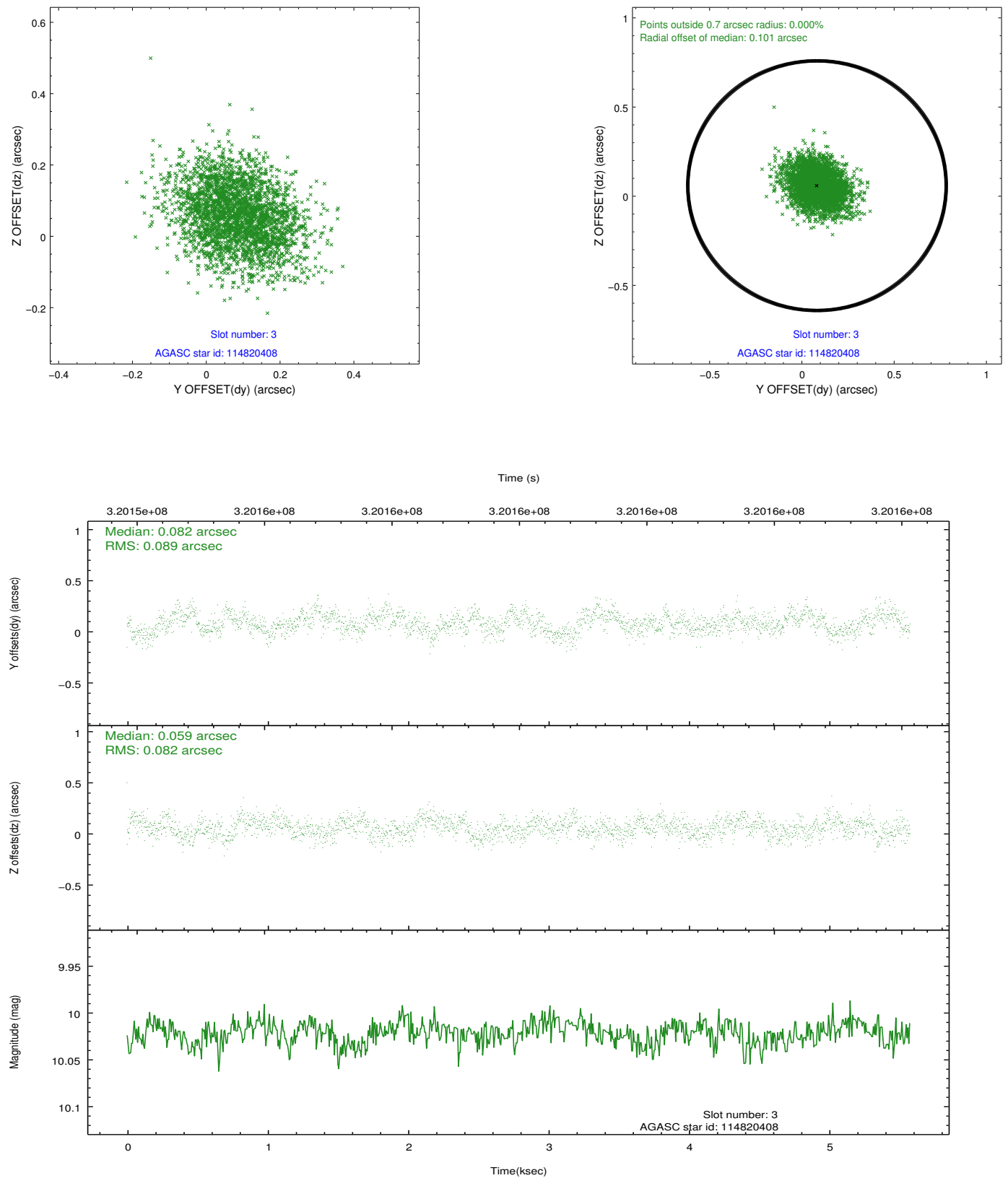


Slot Statistics

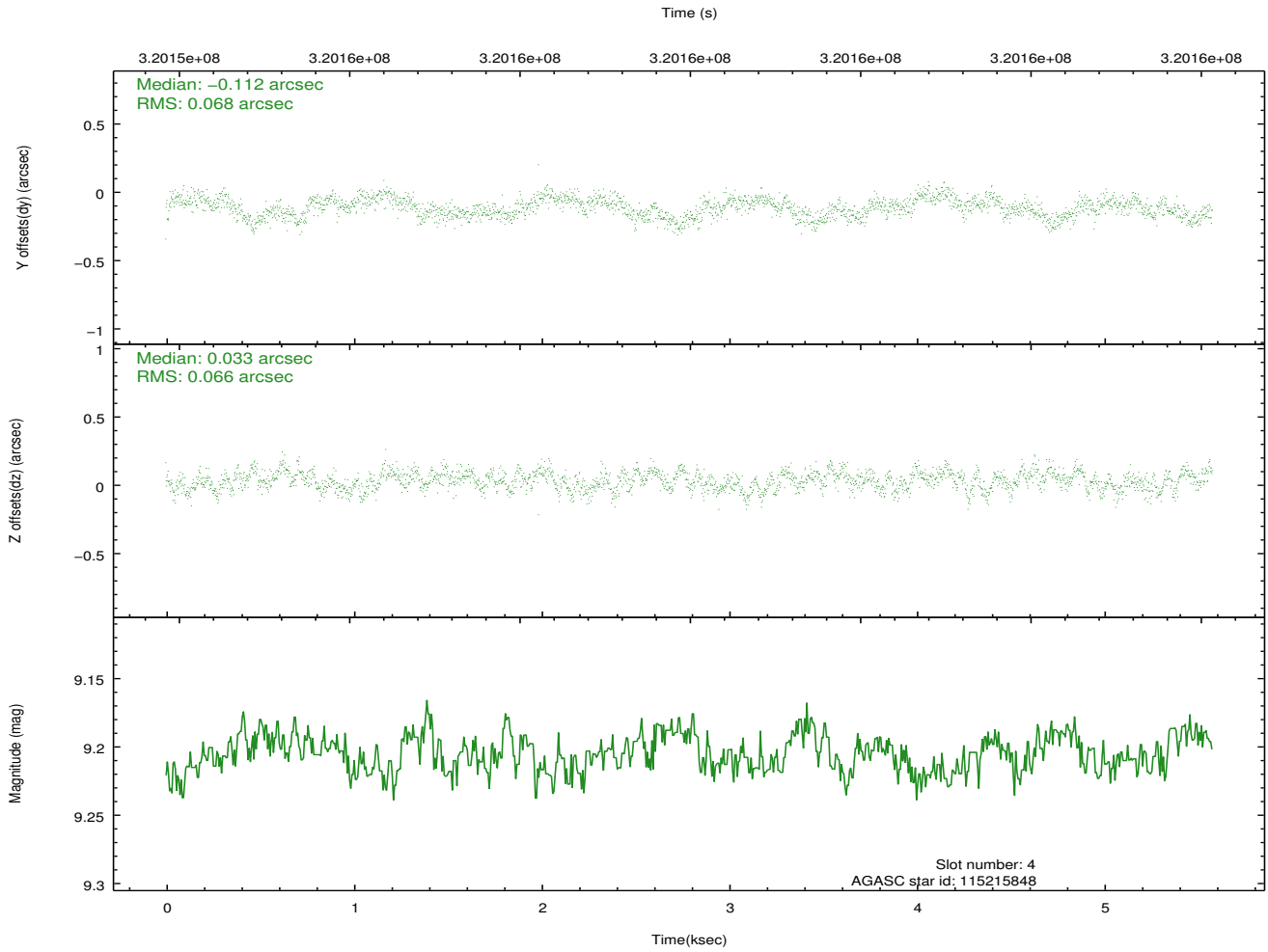
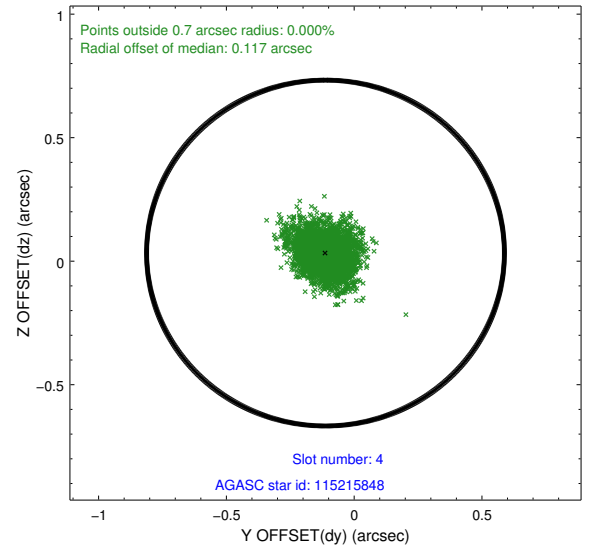
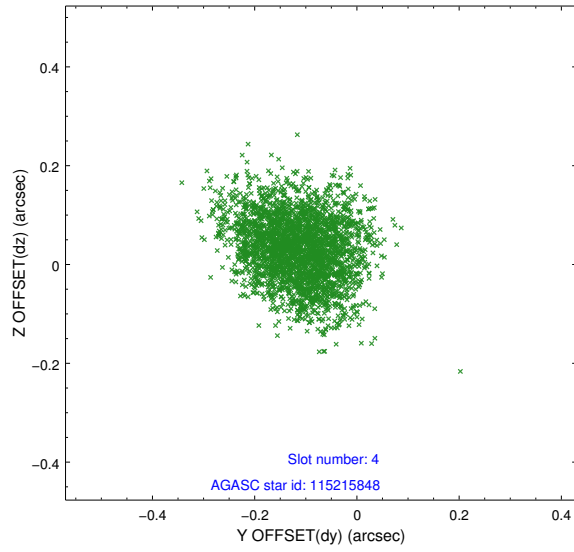
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	1361	-0.075	-0.044	0.005	0.010	0.000000	0.000000	-765.50	-1734.94
1	FID	ACIS-S-4	7.19	1360	0.096	0.032	0.006	0.010	0.000000	0.000000	2147.45	172.52
2	FID	ACIS-S-6	7.34	1361	-0.049	0.019	0.006	0.011	0.000000	0.000000	397.88	811.12
3	GUIDE	114820408	10.02	2715	0.082	0.059	0.129	0.210	184.593209	12.468607	-2040.01	-1435.32
4	GUIDE	115215848	9.21	2721	-0.112	0.033	0.102	0.161	184.751418	13.367171	1159.71	-2162.70
5	GUIDE	115216896	8.52	2722	-0.068	0.018	0.070	0.110	184.169439	13.297075	1019.23	-113.70
6	GUIDE	115217776	8.83	2721	0.048	0.085	0.075	0.124	184.204027	12.539164	-1711.57	-83.32
7	GUIDE	115218080	9.50	2721	0.055	-0.187	0.106	0.167	184.130022	12.510081	-1802.72	181.91

2.4 Star Slots

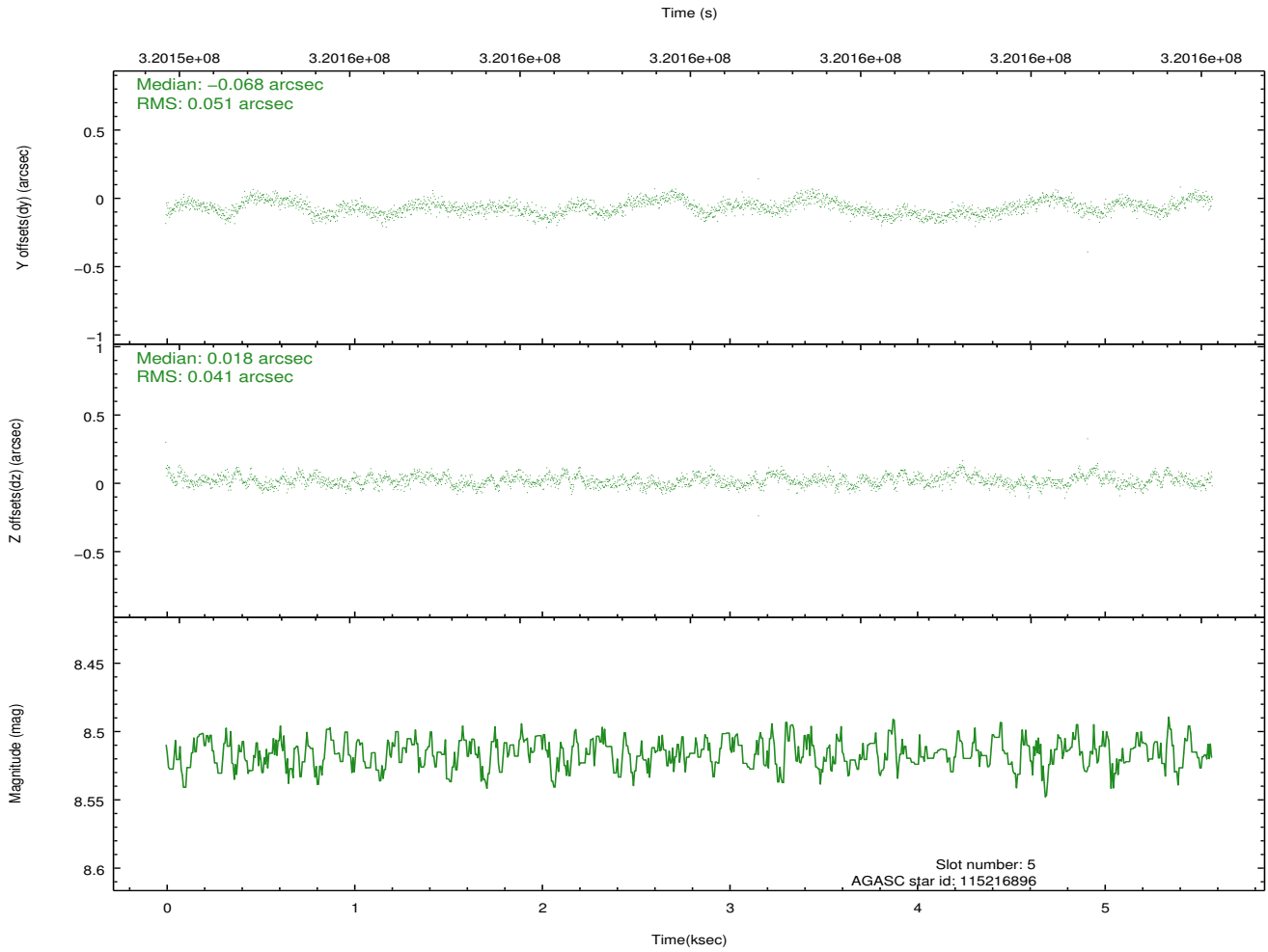
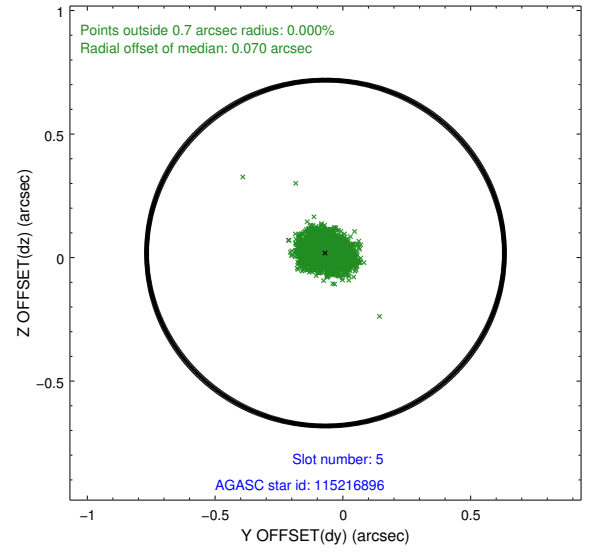
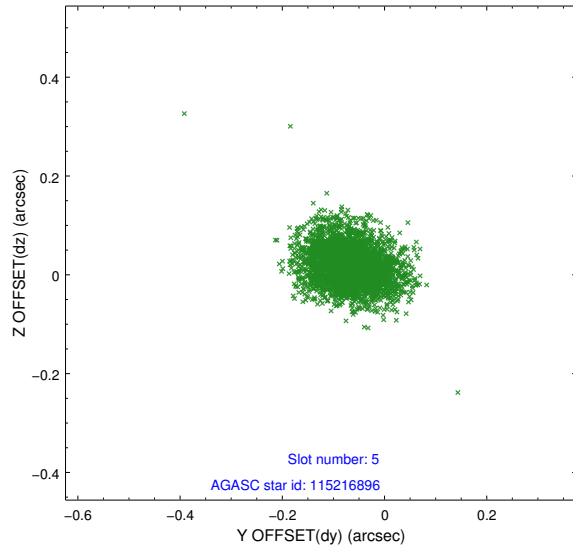
2.4.1 Slot 3



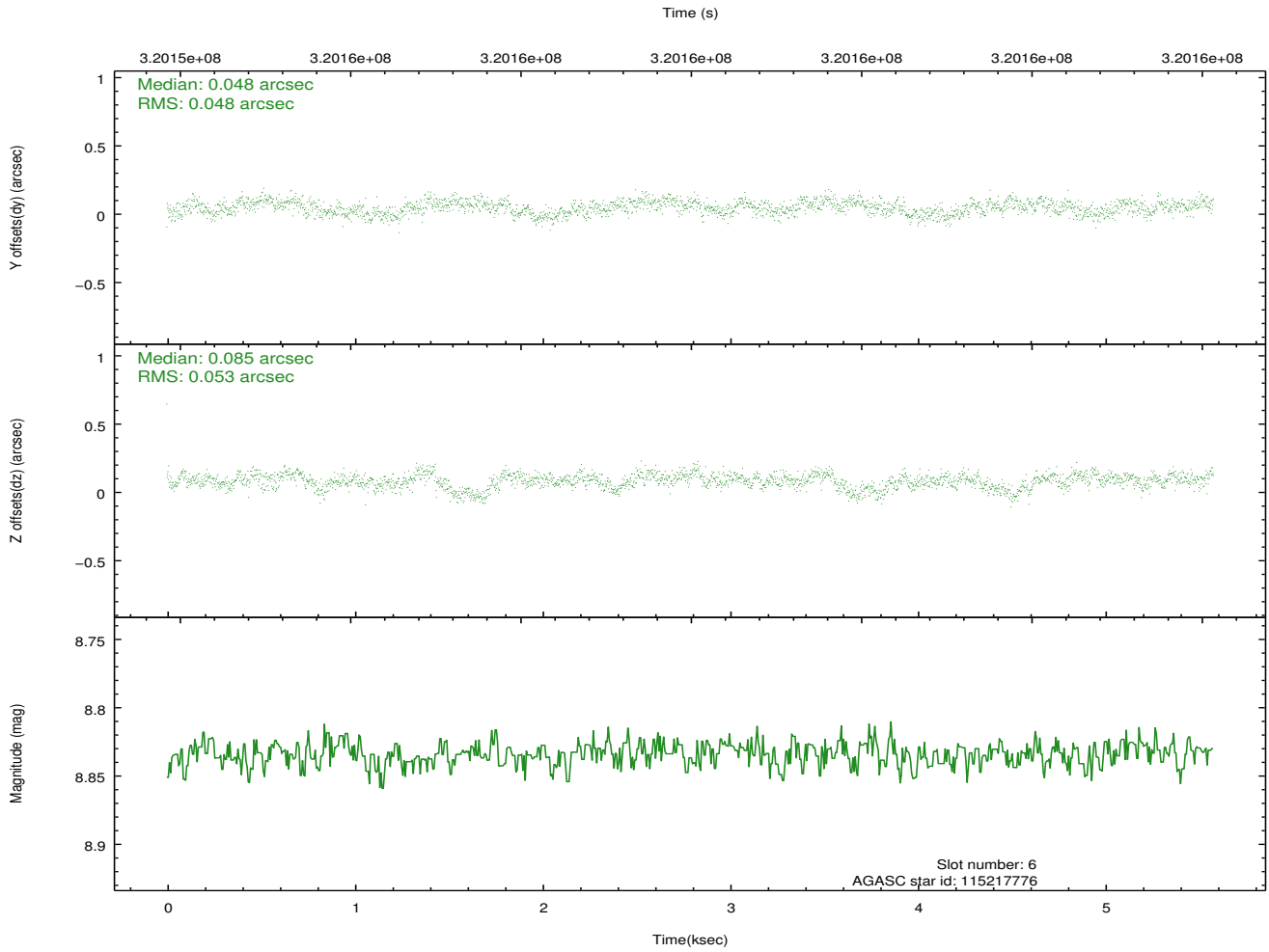
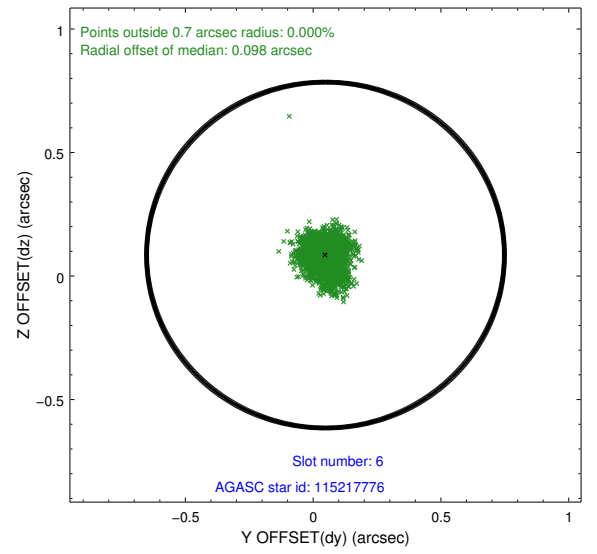
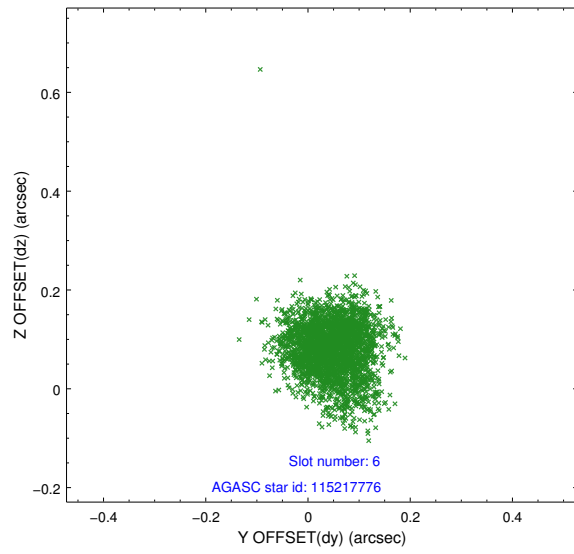
2.4.2 Slot 4



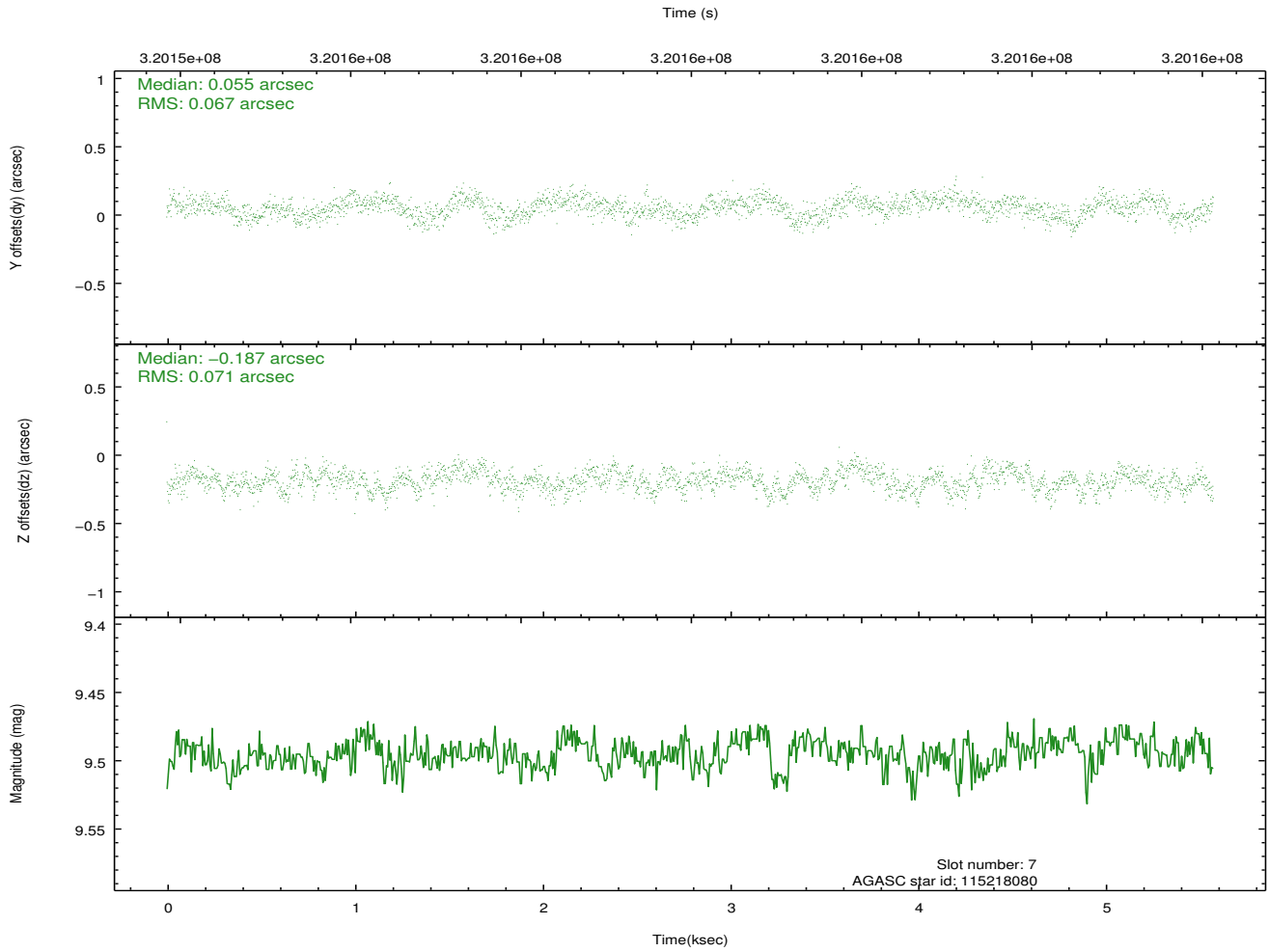
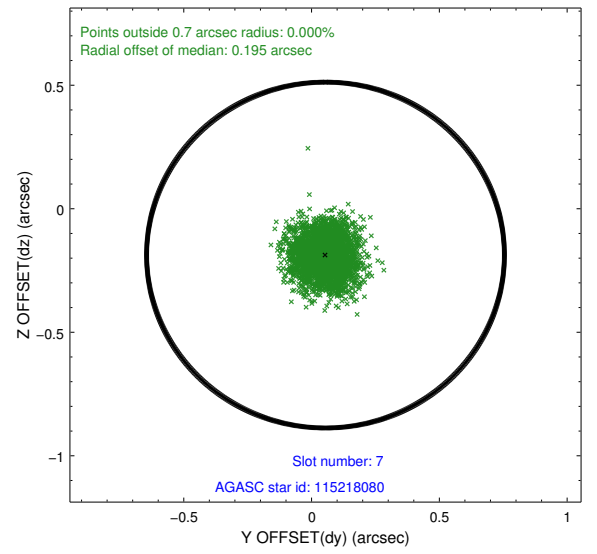
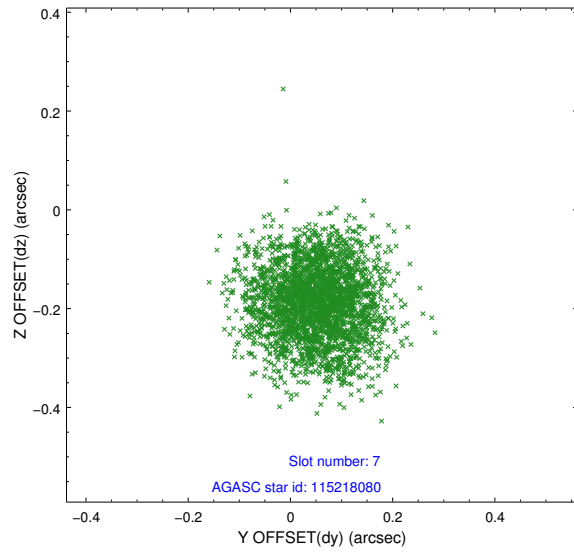
2.4.3 Slot 5



2.4.4 Slot 6

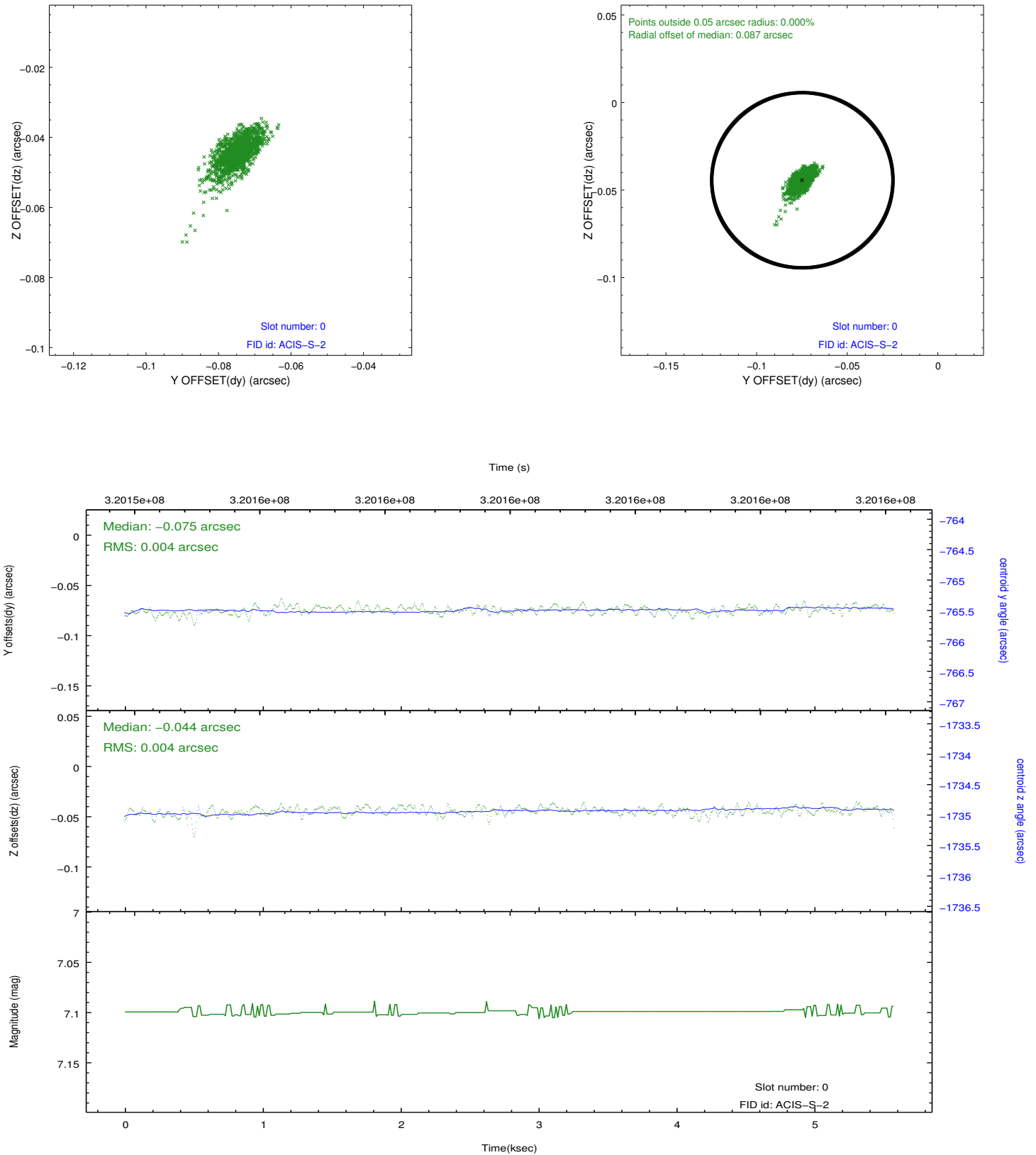


2.4.5 Slot 7

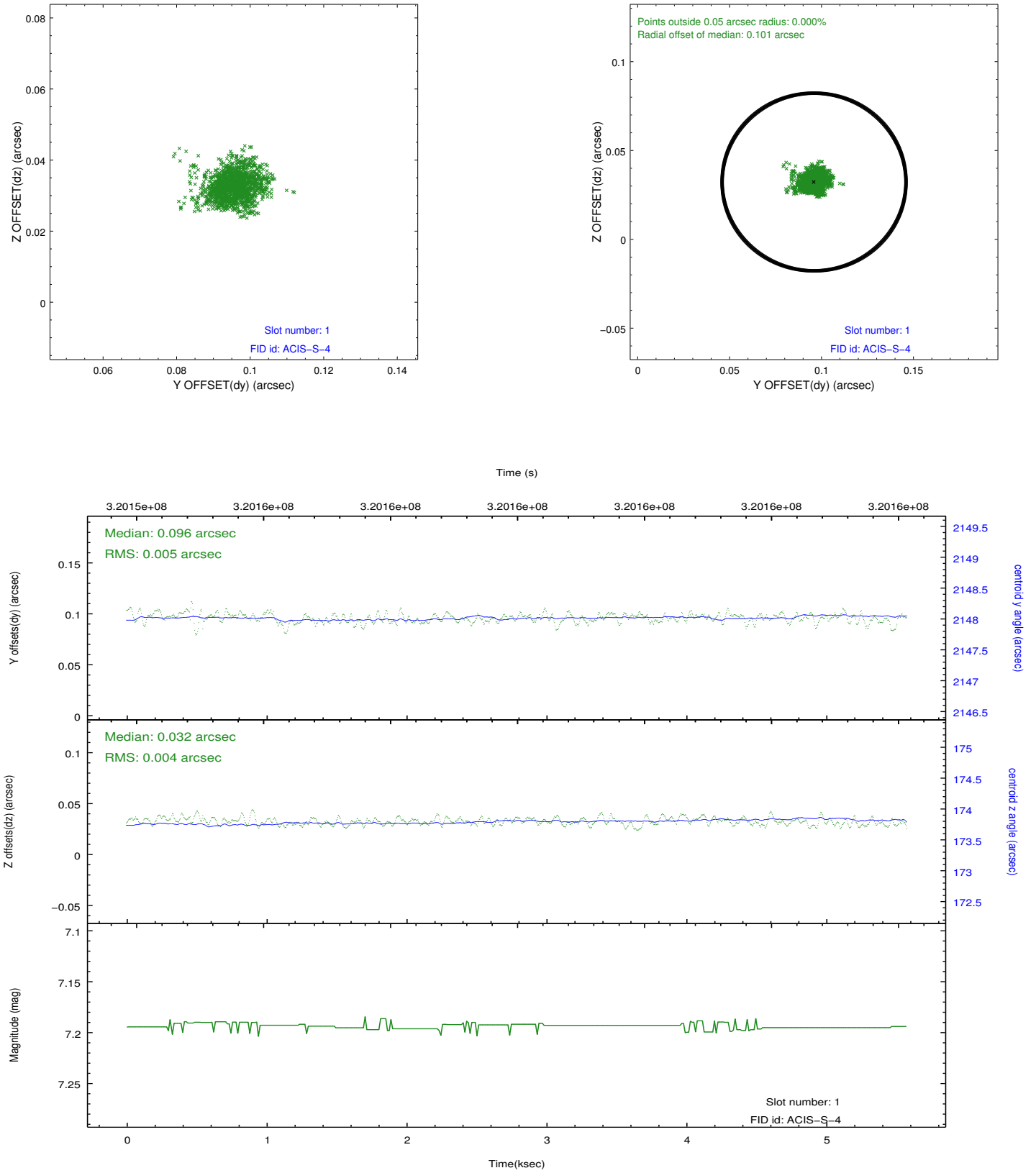


2.5 FID Slots

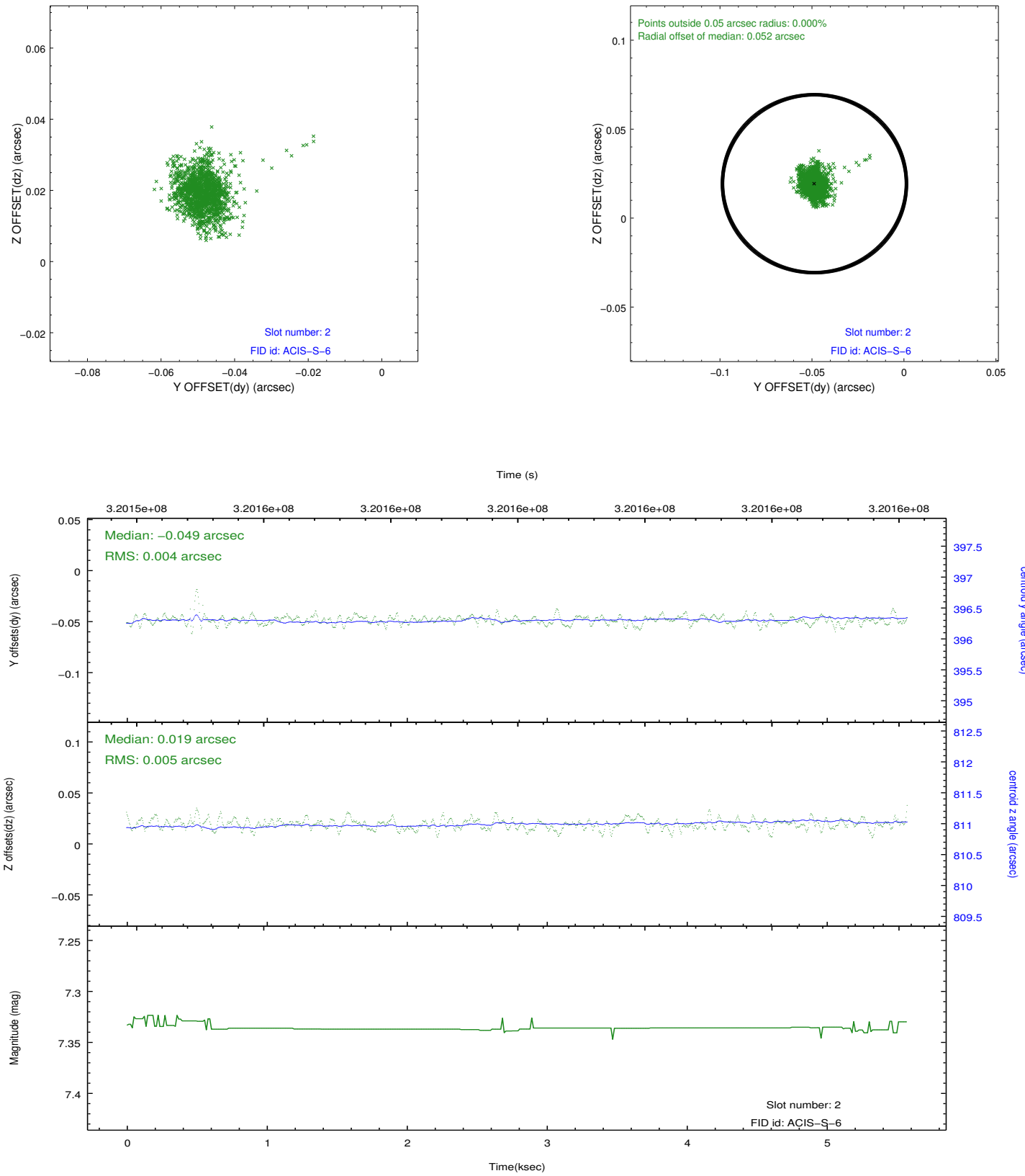
2.5.1 Slot 0



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)	2012.05.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.15839998

A.2 Comments

Joint Proposal: Spitzer