

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 12373 - L2 Version 1
Chandra X-Ray Center

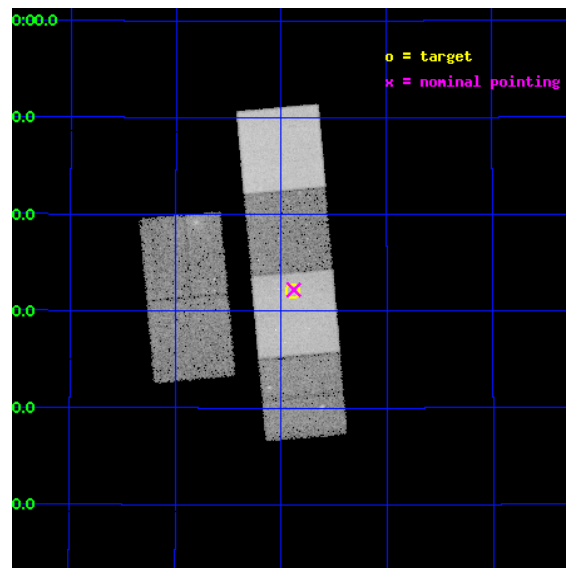
L2 Processing Date : May 15 2012

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

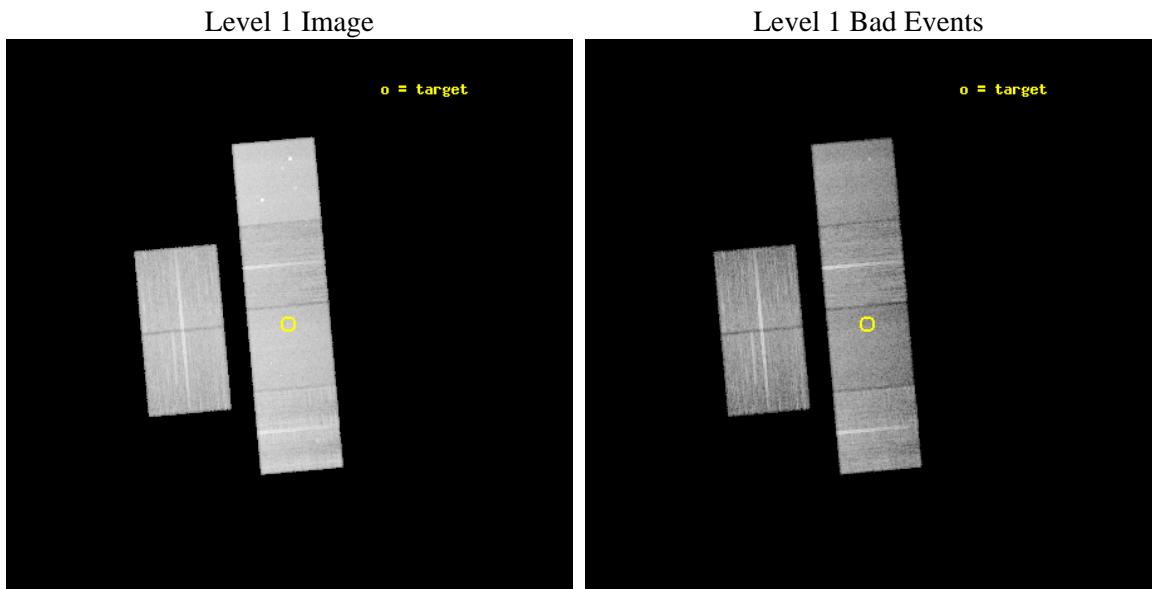
seq_num	200707	Sequence number
obs_id	12373	Observation id
title	X-rays from Planetary Nebulae: Unveiling Binarity, Magnetic Fields, and Wind Collisions	Proposal title
observer	Dr. Joel Kastner	Principal investigator
object	NGC 7662	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	351.473333	Observer's specified target RA [deg]
dec_targ	42.535	Observer's specified target Dec [deg]
ra_nom	351.47010272319	Nominal RA [deg]
dec_nom	42.536852357533	Nominal Dec [deg]
roll_nom	84.864436339776	Nominal Roll [deg]
revision	1	Processing version of data
ontime	27961.311415792	Sum of GTIs [s]
livetime	27607.248454364	Livetime [s]
ontime2	27961.352455795	Sum of GTIs [s]
ontime3	27961.188295782	Sum of GTIs [s]
ontime5	27961.270375788	Sum of GTIs [s]
ontime6	27961.229335785	Sum of GTIs [s]
ontime7	27961.311415792	Sum of GTIs [s]
ontime8	27954.665314674	Sum of GTIs [s]
l2events	285687	Number of level 2 events



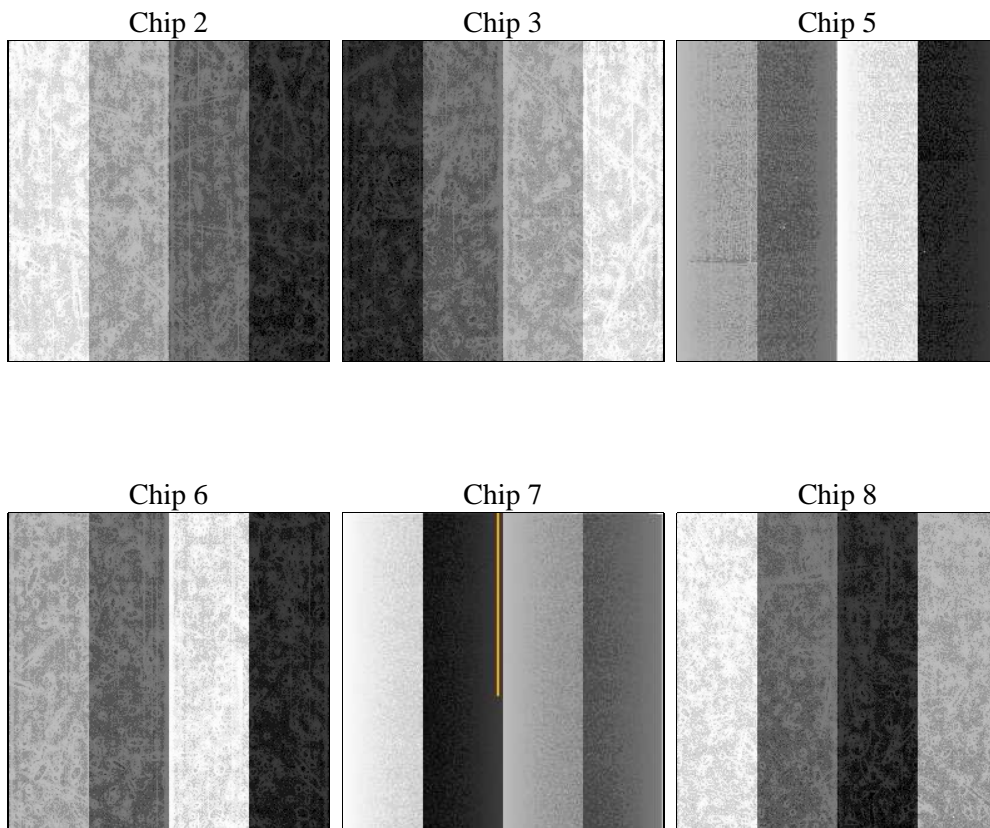
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	5	Obi number	sched_exp_time	28000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	27961.311415792	Sum of GTIs [s]
caldsver	4.4.9	 	ontime2	27961.352455795	Sum of GTIs [s]
date	2012-05-16T01:19:32	Date and time of file creation	ontime3	27961.188295782	Sum of GTIs [s]
revision	1	Processing version of data	ontime5	27961.270375788	Sum of GTIs [s]
			ontime6	27961.229335785	Sum of GTIs [s]
			ontime7	27961.311415792	Sum of GTIs [s]
			ontime8	27954.665314674	Sum of GTIs [s]
			l1events	1198990	Number of level 1 events

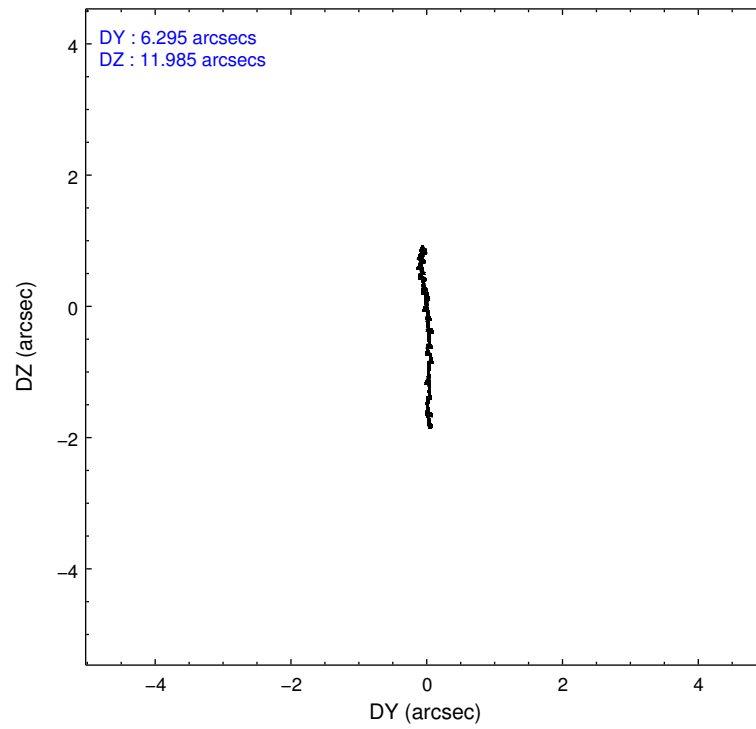
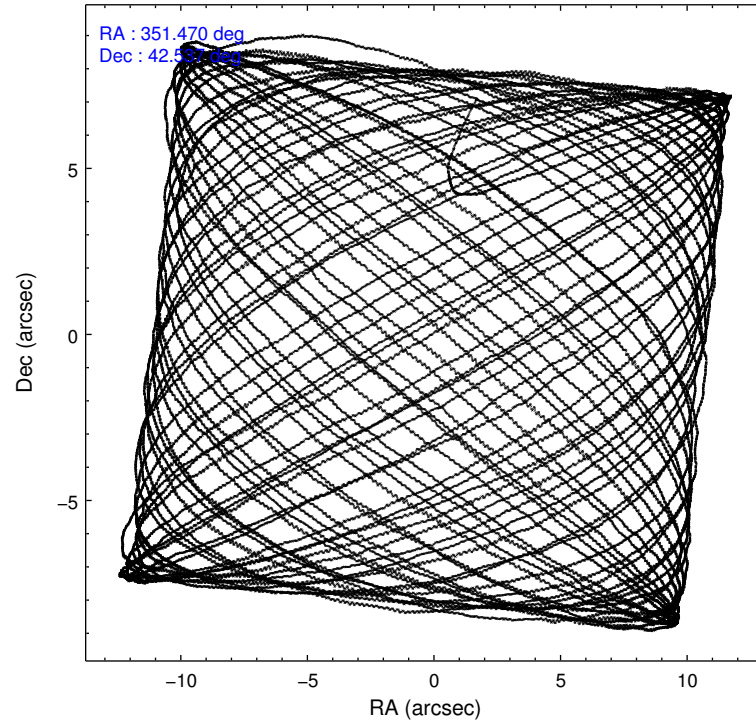
2.1.4 Events

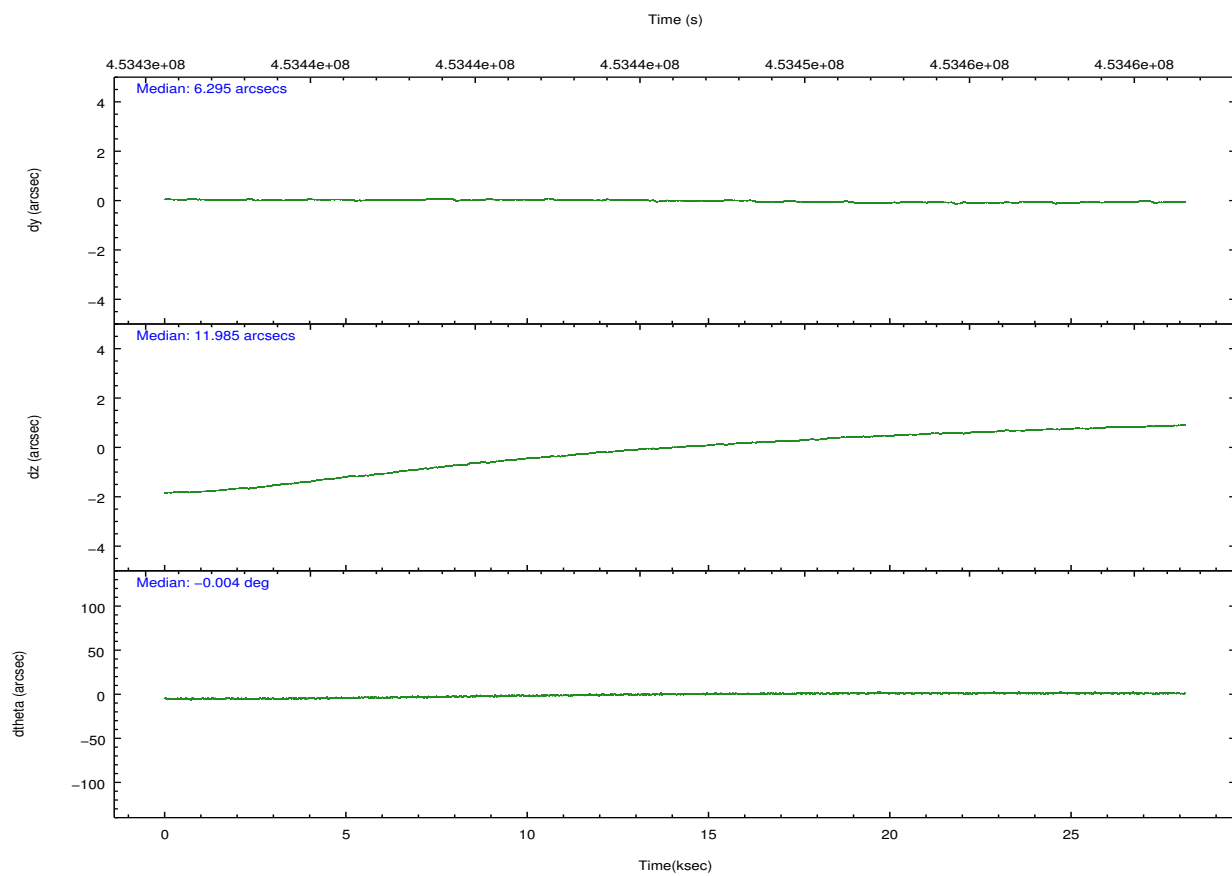
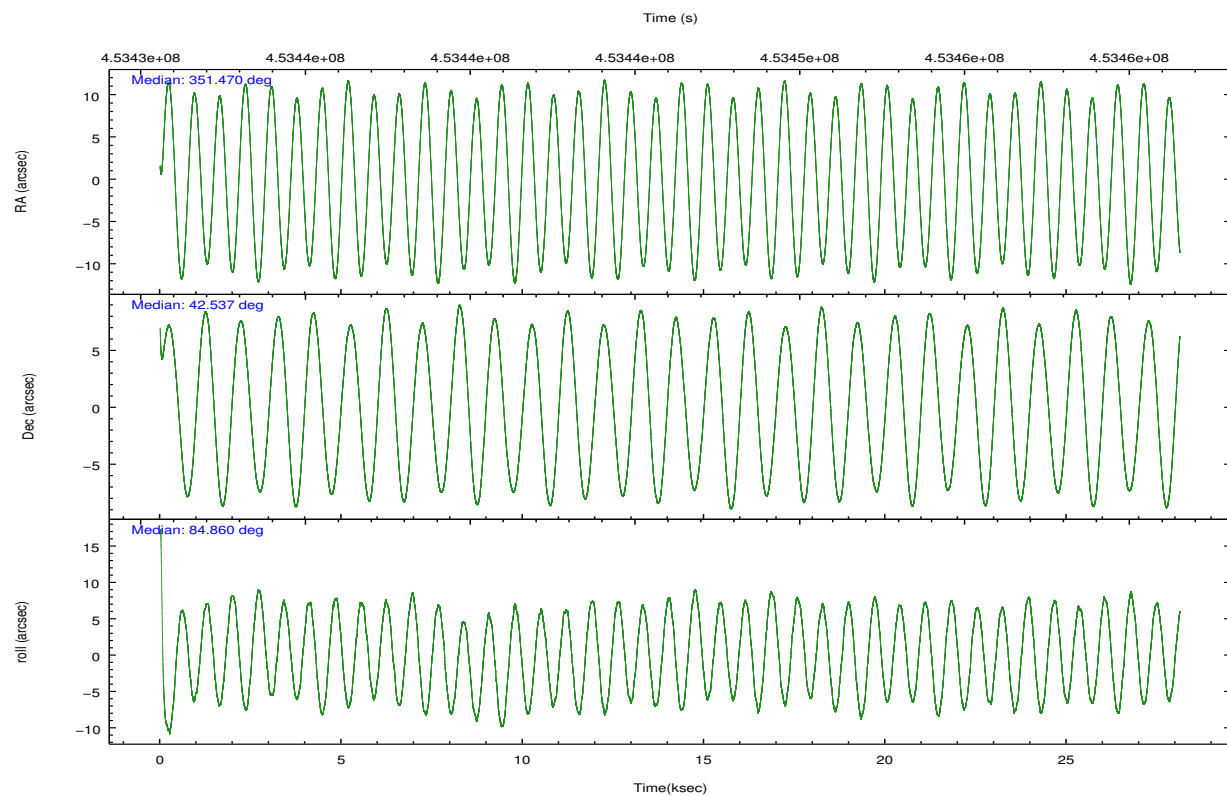
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	169008	160997	263279	168844	216582	220280	grade 0 events	8774	6133	10063	7014	8504	18255
rejected events	147787	143437	135794	148979	120823	161509		5%	3%	3%	4%	3%	8%
rejected %	87%	89%	51%	88%	55%	73%	grade 1 events	103	85	657	85	265	181
								0%	0%	0%	0%	0%	0%
							grade 2 events	4773	4027	38892	4422	19700	13240
								2%	2%	14%	2%	9%	6%
							grade 3 events	1987	1875	4488	2054	8168	6182
								1%	1%	1%	1%	3%	2%
							grade 4 events	1965	1877	4432	2037	8065	5964
								1%	1%	1%	1%	3%	2%
							grade 5 events	7073	8101	19649	8181	22228	11783
								4%	5%	7%	4%	10%	5%
							grade 6 events	3730	3656	69647	4341	51340	15159
								2%	2%	26%	2%	23%	6%
							grade 7 events	140603	135243	115451	140710	98312	149516
								83%	84%	43%	83%	45%	67%

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	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	351.486130	351.4701027231885	CCD I2 on	O4	Y
[deg] Pointing Dec	42.512196	42.53685235753287	CCD I3 on	O5	Y
[deg] Pointing Roll	84.696969	84.86443633977592	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	O1	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	O2	Y
[s] Observation start time (MET)	453432141.184000	453430934.27651	CCD S5 on	N	N
Observation start date	2012-05-15T01:21:15	2012-05-15T01:02:14	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	453460141.184000	453460576.76559	On-chip summing requested	N	N
Observation end date	2012-05-15T09:07:55	2012-05-15T09:16:16	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



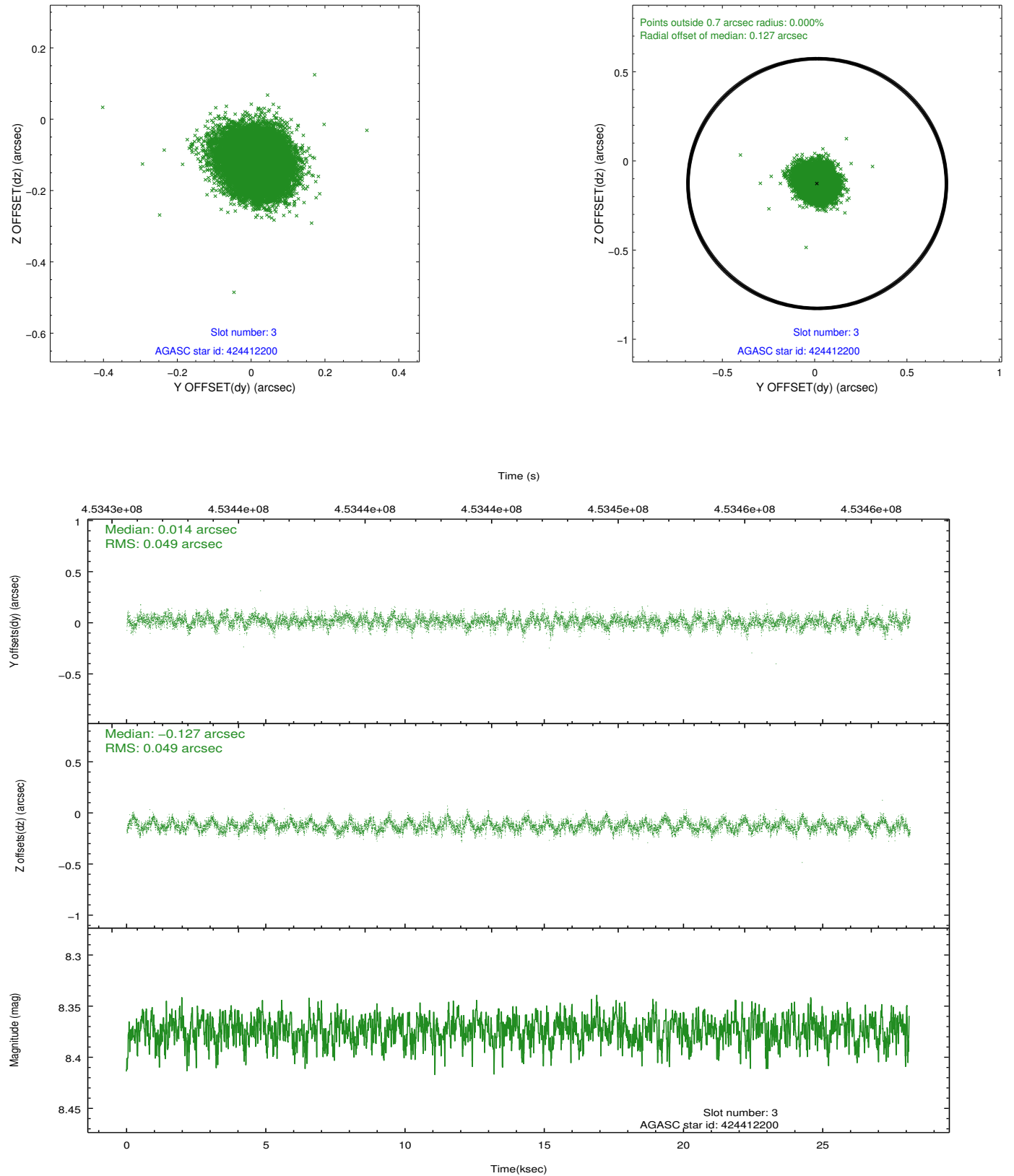


Slot Statistics

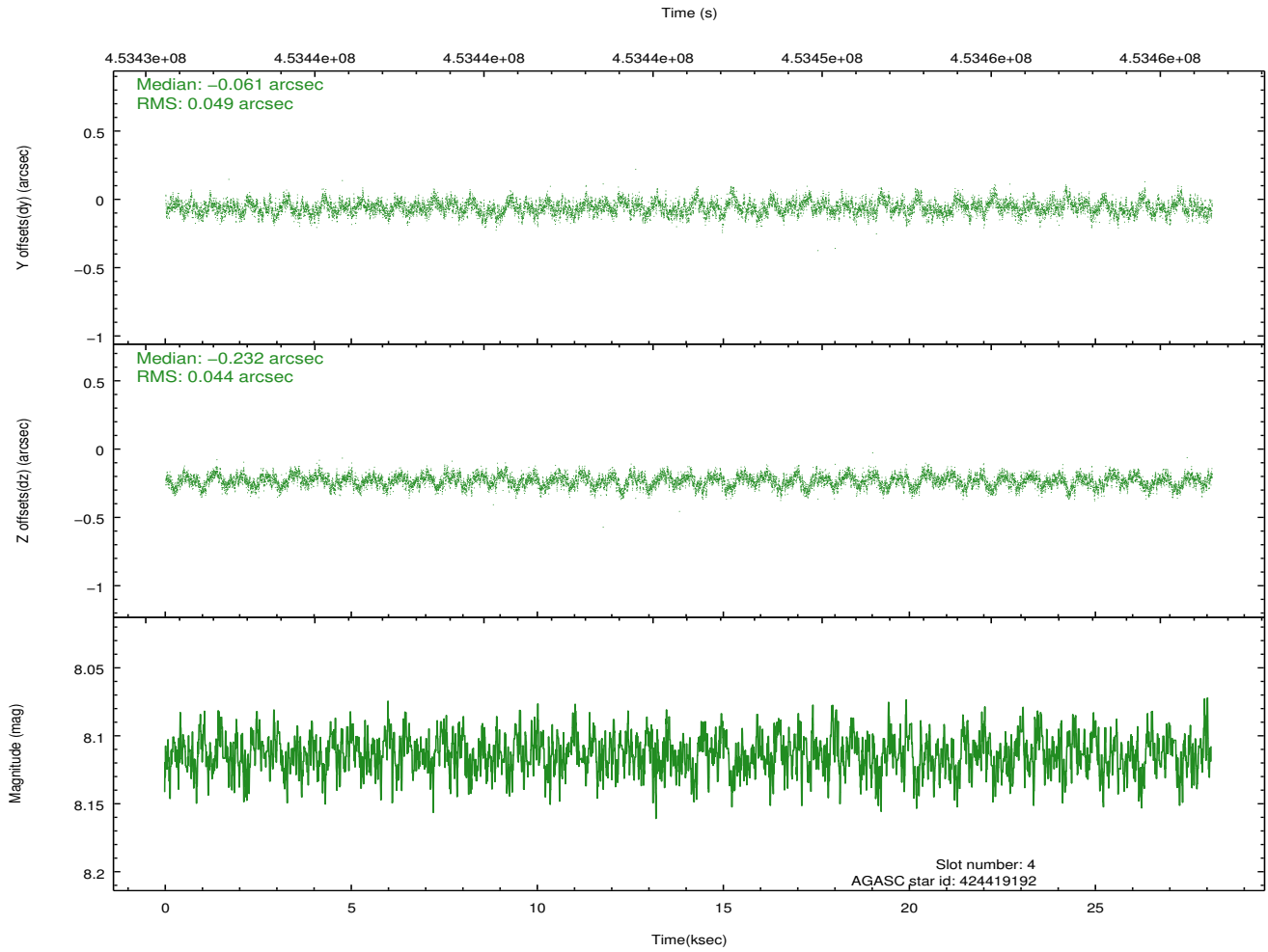
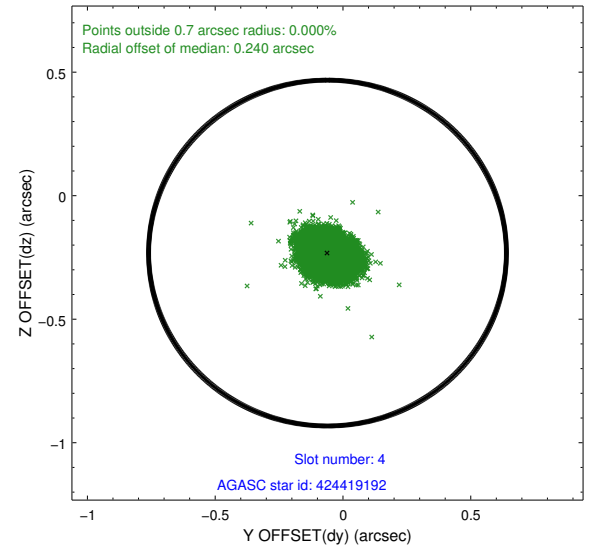
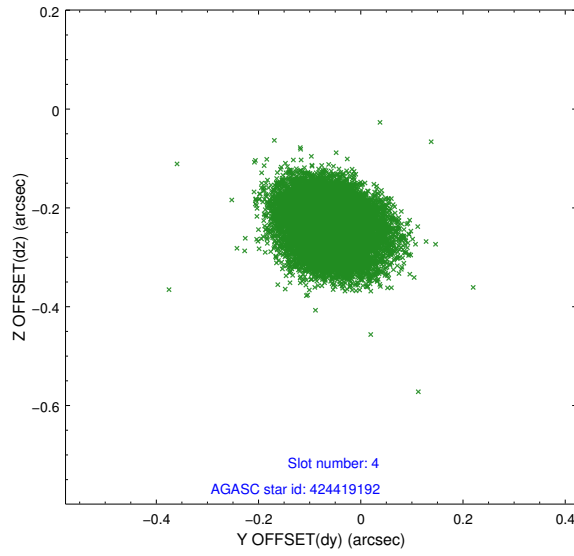
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.05	6859	0.071	-0.082	0.022	0.034	0.000000	0.000000	937.06	-1728.75
1	FID	ACIS-S-5	7.10	6861	-0.100	0.044	0.016	0.025	0.000000	0.000000	-1812.02	168.89
2	FID	ACIS-S-6	7.20	6859	0.008	0.052	0.031	0.040	0.000000	0.000000	402.52	812.91
3	GUIDE	424412200	8.37	13718	0.014	-0.127	0.073	0.116	351.413206	43.057276	1936.59	372.75
4	GUIDE	424419192	8.11	13713	-0.061	-0.232	0.070	0.113	351.260831	42.225331	-1082.80	502.62
5	GUIDE	424411712	8.55	13649	0.037	0.062	0.078	0.126	351.670132	41.899997	-2147.85	-694.12
6	GUIDE	424421128	8.15	13715	-0.000	0.159	0.073	0.114	352.322597	42.148069	-1087.45	-2343.22
7	GUIDE	424412456	8.78	13705	0.015	0.140	0.085	0.137	352.451835	42.869546	1529.41	-2416.68

2.4 Star Slots

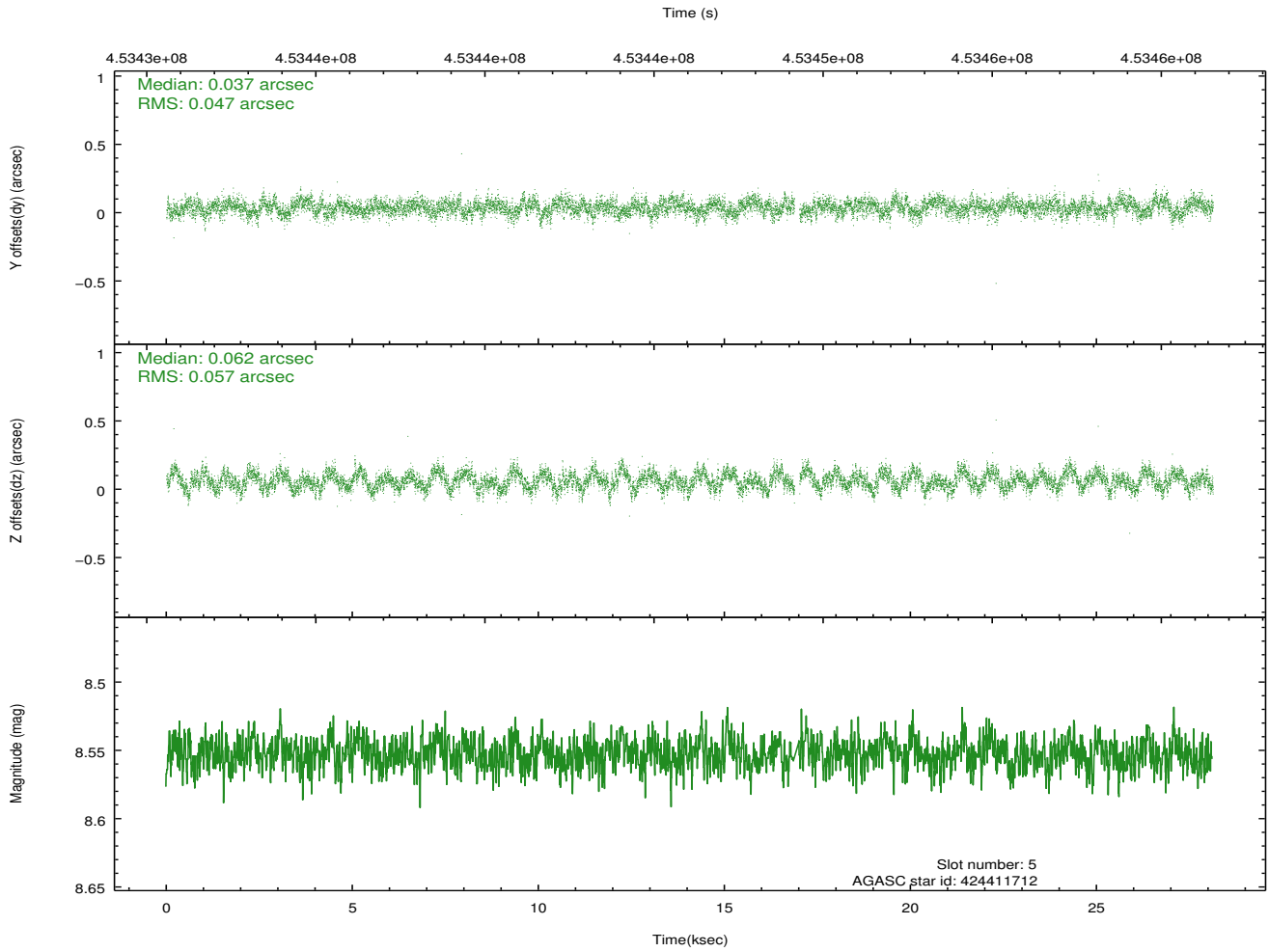
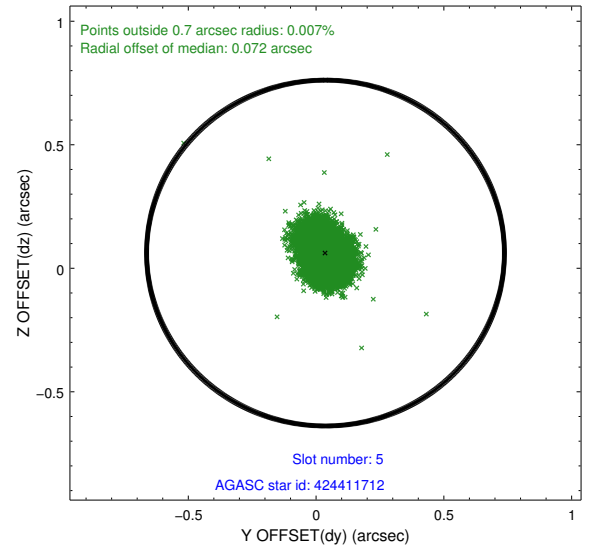
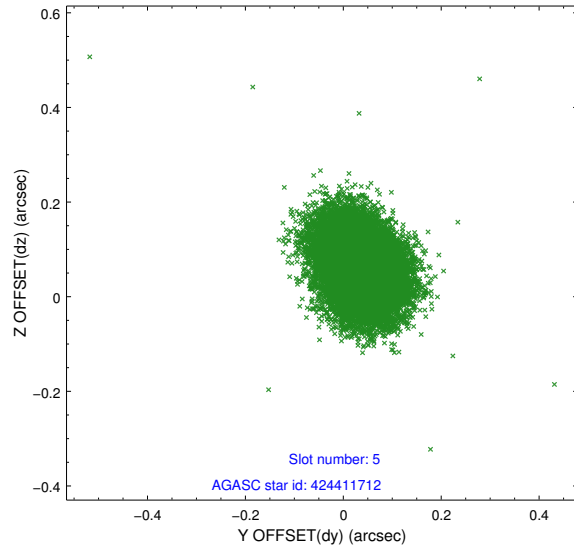
2.4.1 Slot 3



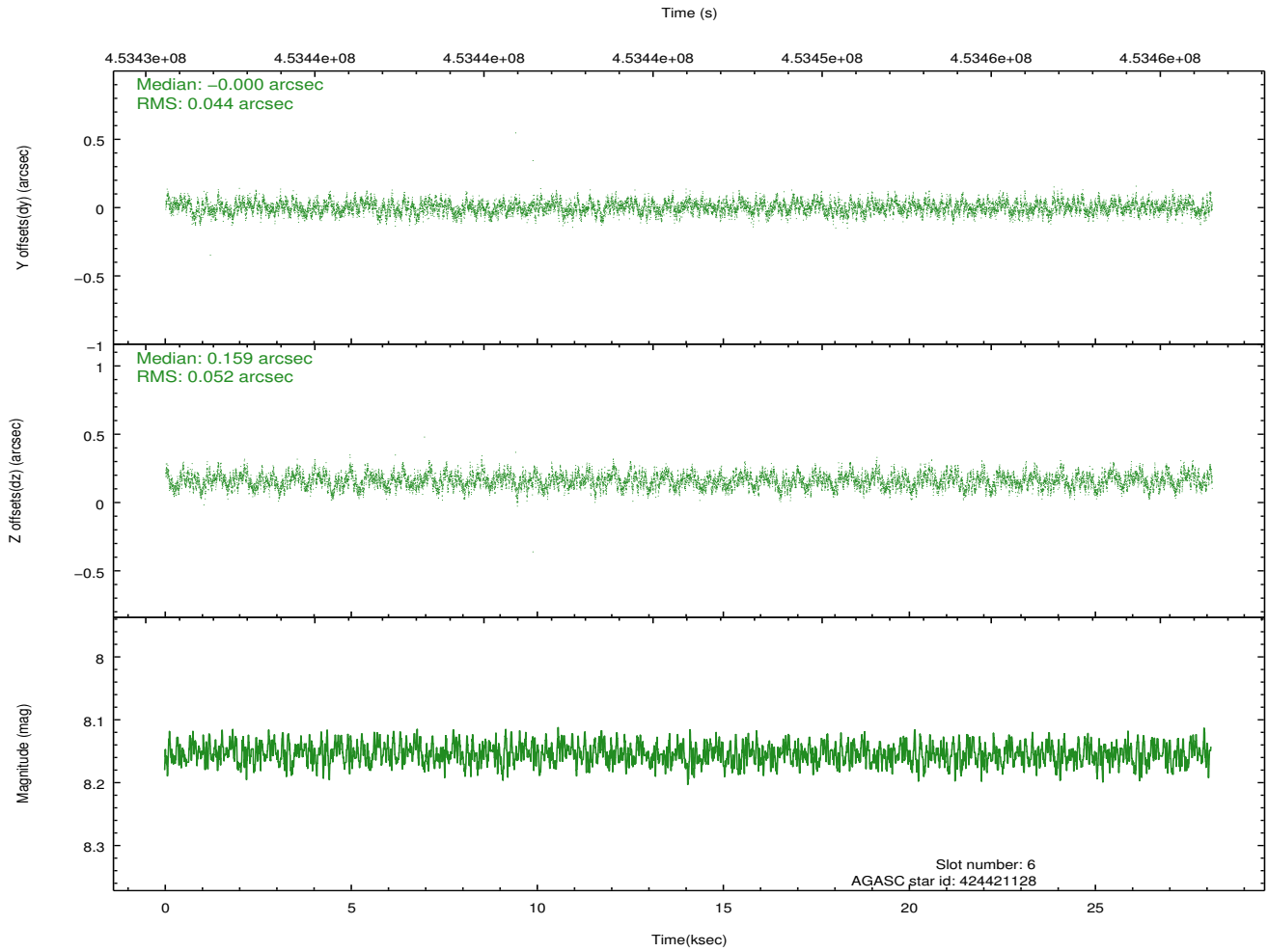
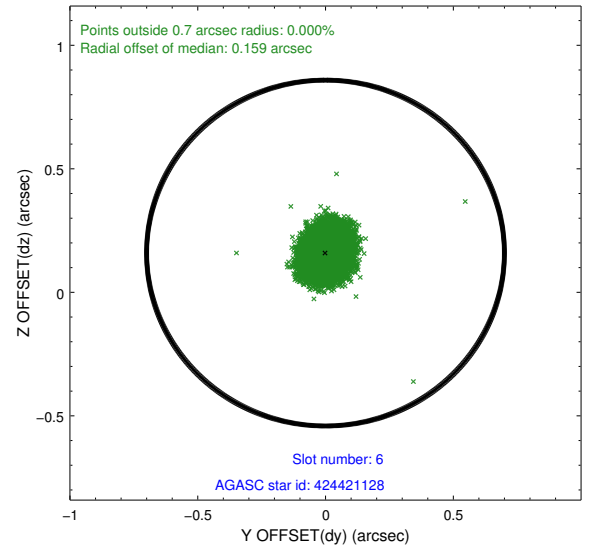
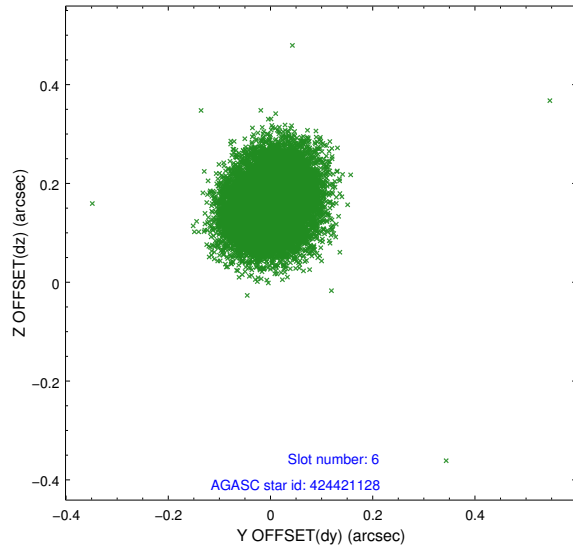
2.4.2 Slot 4



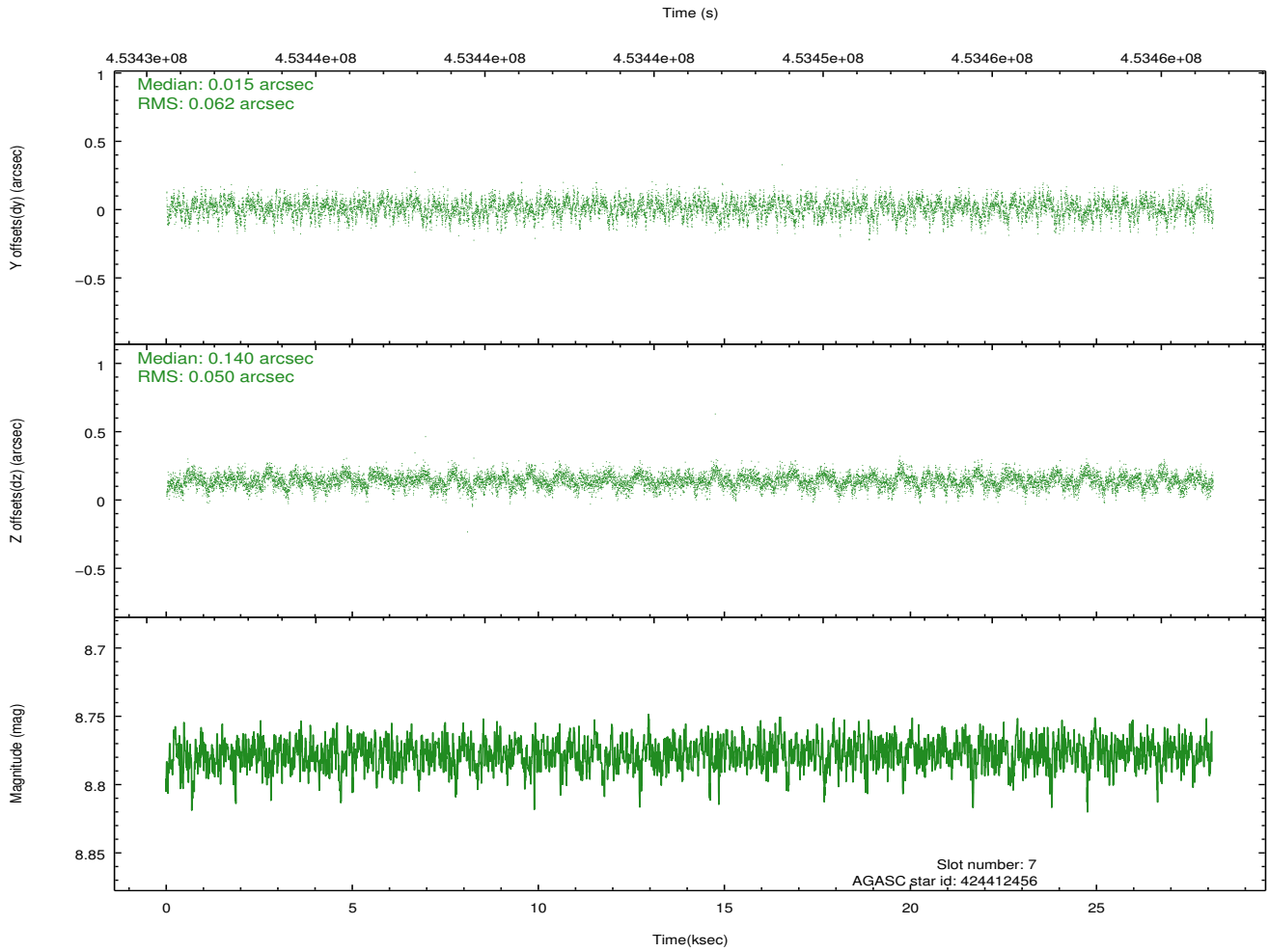
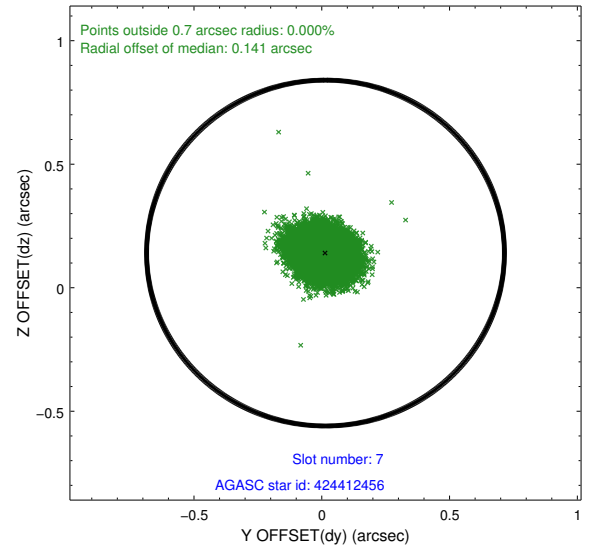
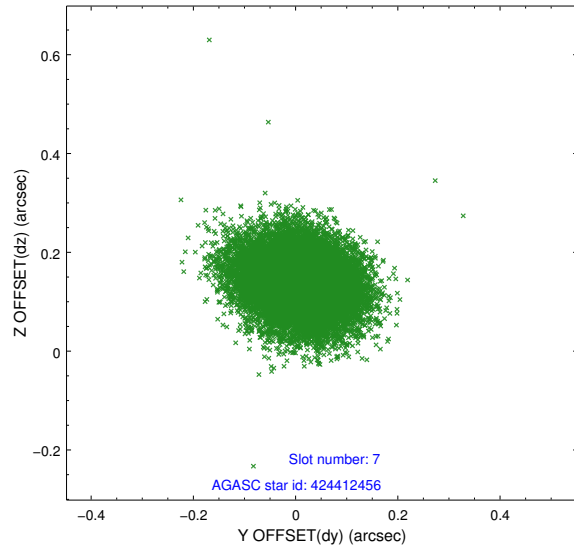
2.4.3 Slot 5



2.4.4 Slot 6

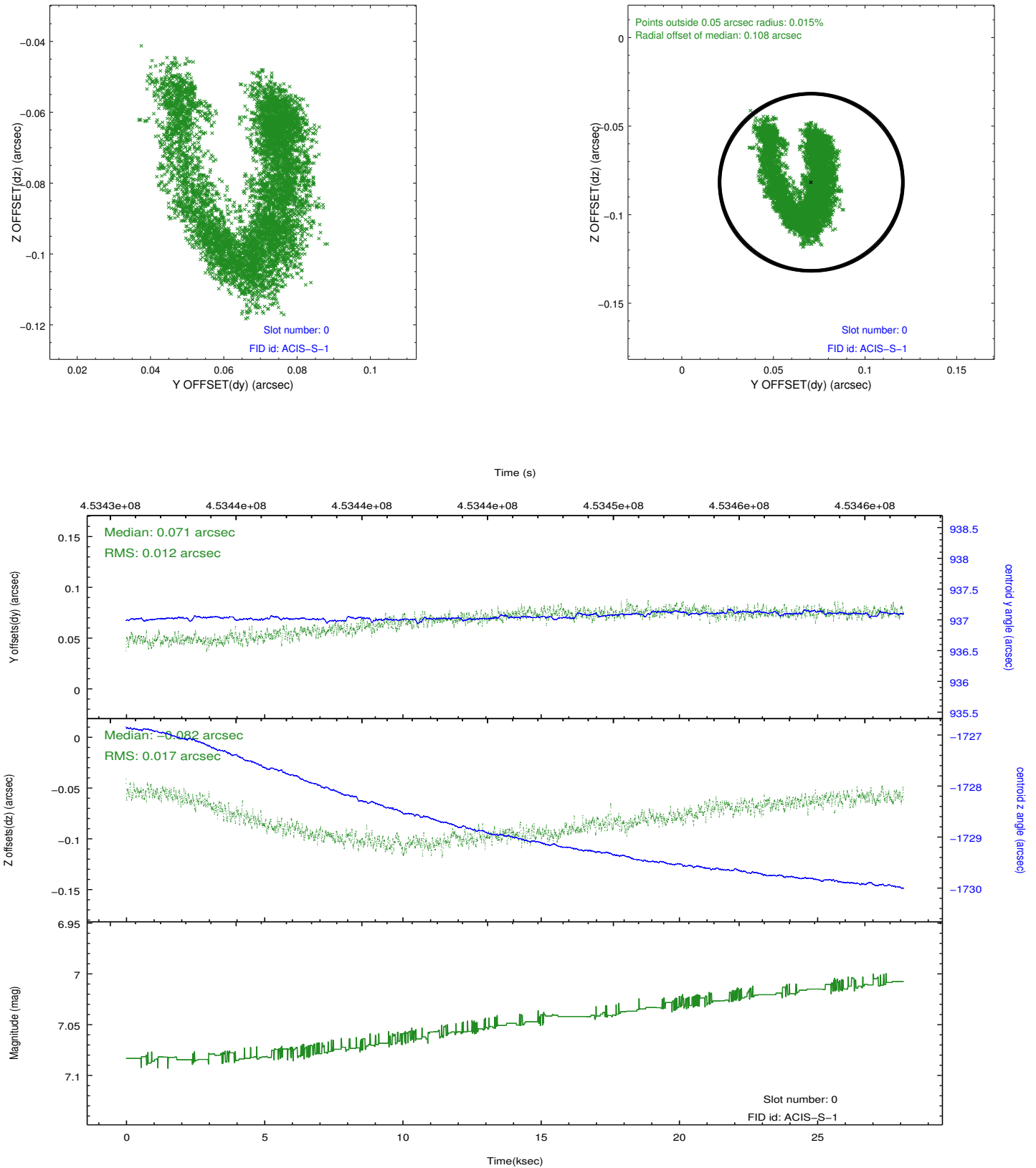


2.4.5 Slot 7

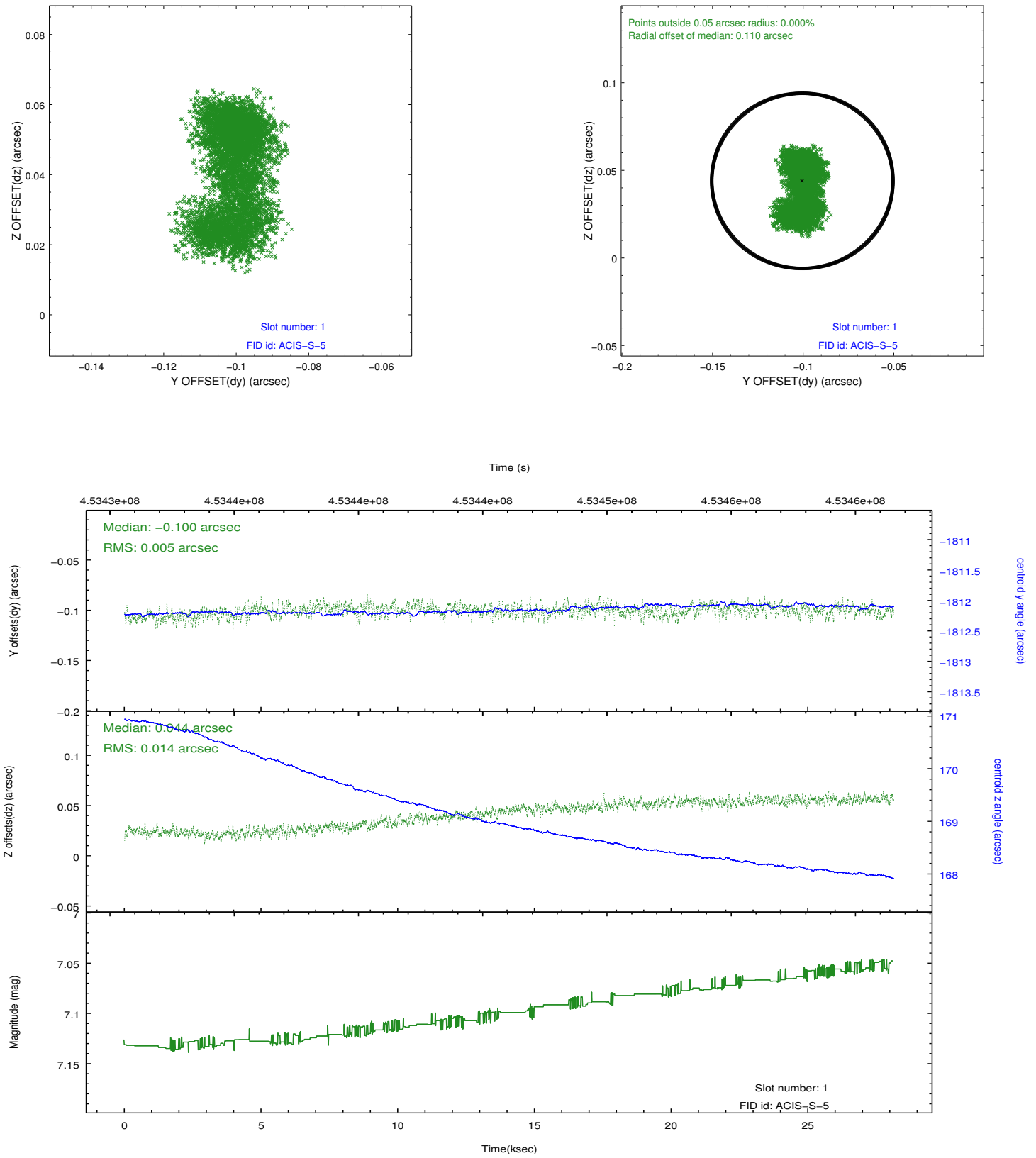


2.5 FID Slots

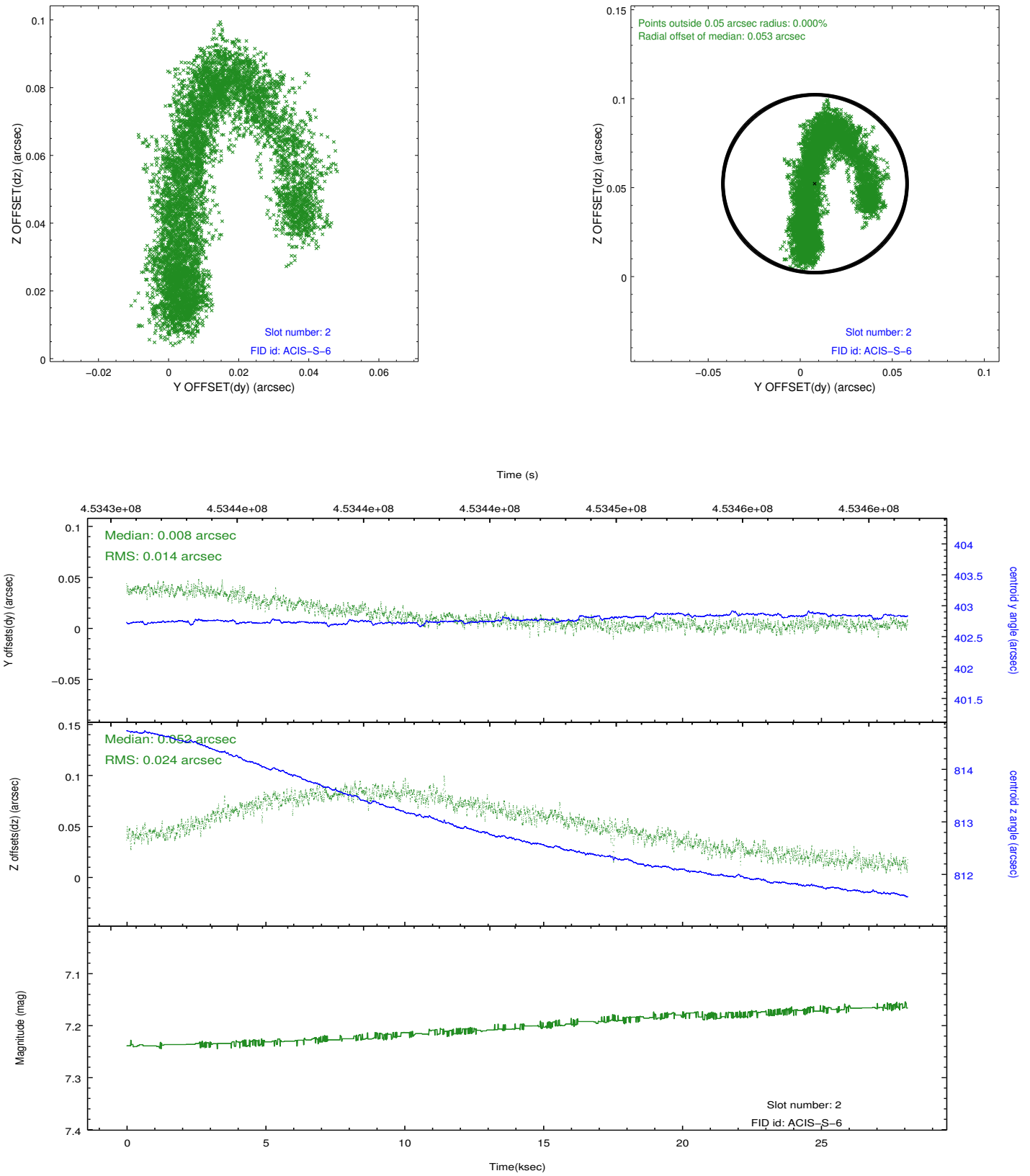
2.5.1 Slot 0



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)	2012.05.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	27.961311415792

A.2 Comments