

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 19315 - L2 Version 1
Chandra X-Ray Center

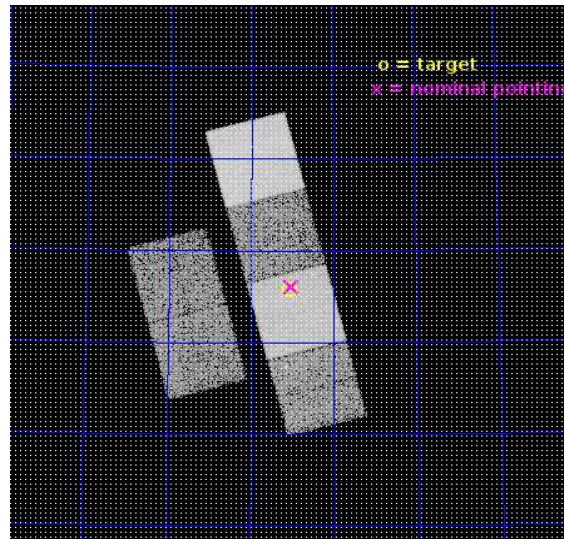
L2 Processing Date : Aug 9 2017

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1 Front

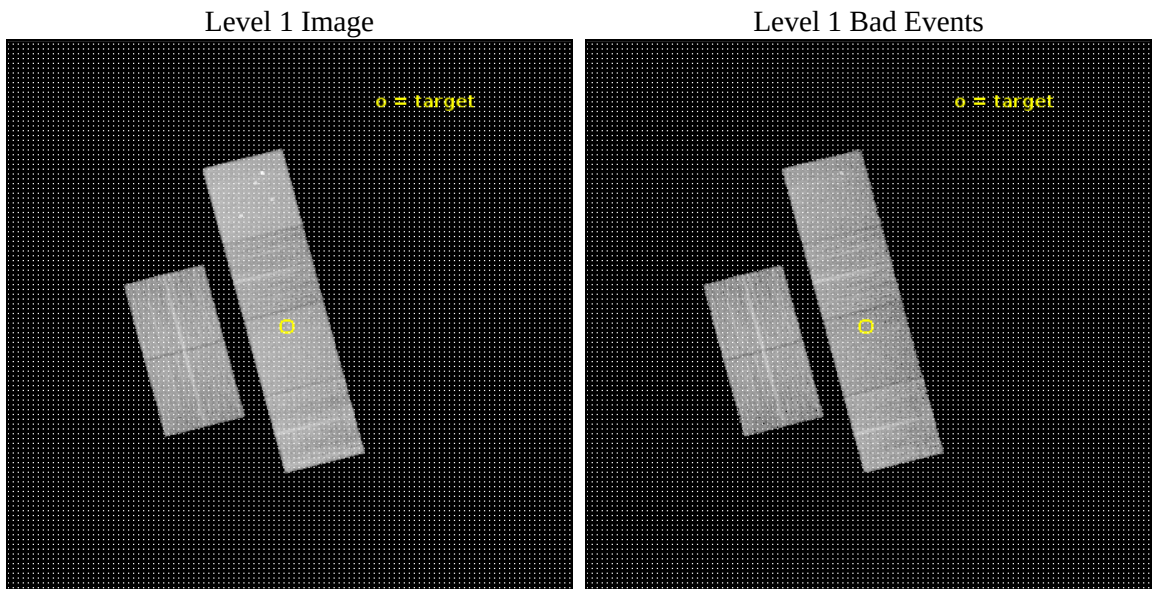
seq_num	601272	Sequence number
obs_id	19315	Observation id
title	A homogeneous view of X-ray halos in massive early-type galaxies	P
observer	Andy Goulding	Principal investigator
object	NGC1573	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	68.766667	Observer's specified target RA [deg]
dec_targ	73.2625	Observer's specified target Dec [deg]
ra_nom	68.754906197618	Nominal RA [deg]
dec_nom	73.268226207938	Nominal Dec [deg]
roll_nom	75.332675335168	Nominal Roll [deg]
revision	1	Processing version of data
ontime	13953.798346758	Sum of GTIs [s]
livetime	13777.106950123	Livetime [s]
ontime2	13953.839386702	Sum of GTIs [s]
ontime3	13953.675226688	Sum of GTIs [s]
ontime5	13953.757306695	Sum of GTIs [s]
ontime6	13953.716266751	Sum of GTIs [s]
ontime7	13953.798346758	Sum of GTIs [s]
ontime8	13953.634186745	Sum of GTIs [s]
l2events	162640	Number of level 2 events



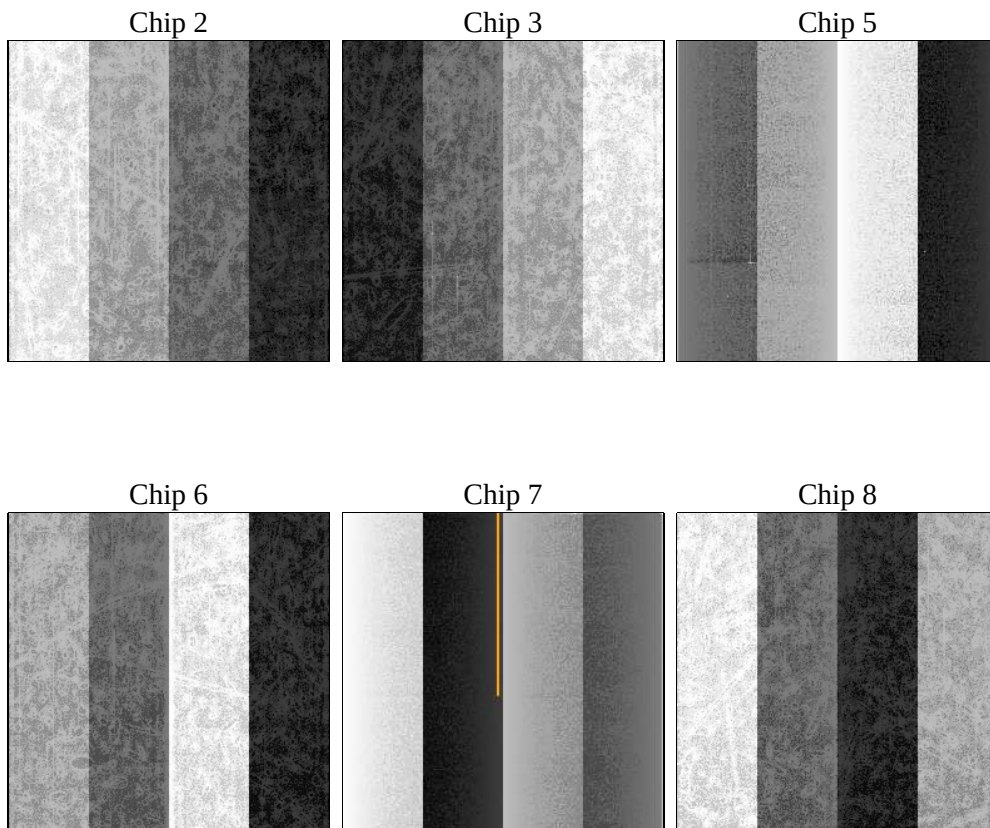
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	14000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	13953.798346758	Sum of GTIs [s]
caldsver	4.7.5	 	ontime2	13953.839386702	Sum of GTIs [s]
date	2017-08-09T05:29:56	Date and time of file creation	ontime3	13953.675226688	Sum of GTIs [s]
revision	1	Processing version of data	ontime5	13953.757306695	Sum of GTIs [s]
			ontime6	13953.716266751	Sum of GTIs [s]
			ontime7	13953.798346758	Sum of GTIs [s]
			ontime8	13953.634186745	Sum of GTIs [s]
			l1events	680920	Number of level 1 events

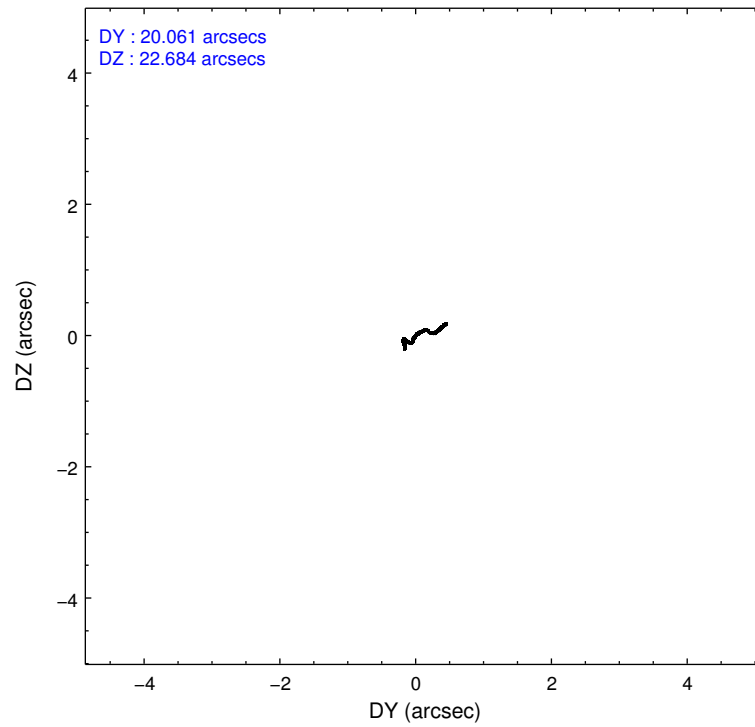
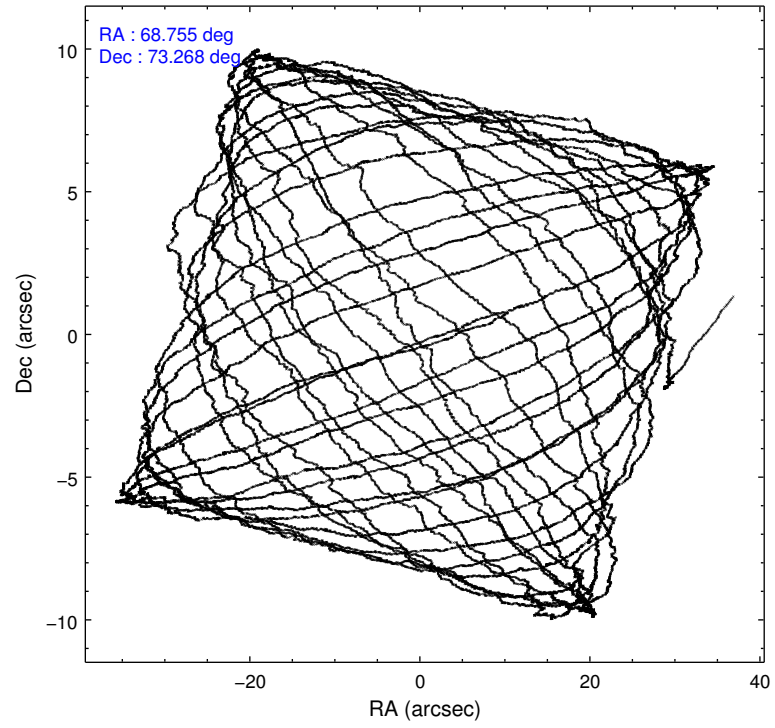
2.1.4 Events

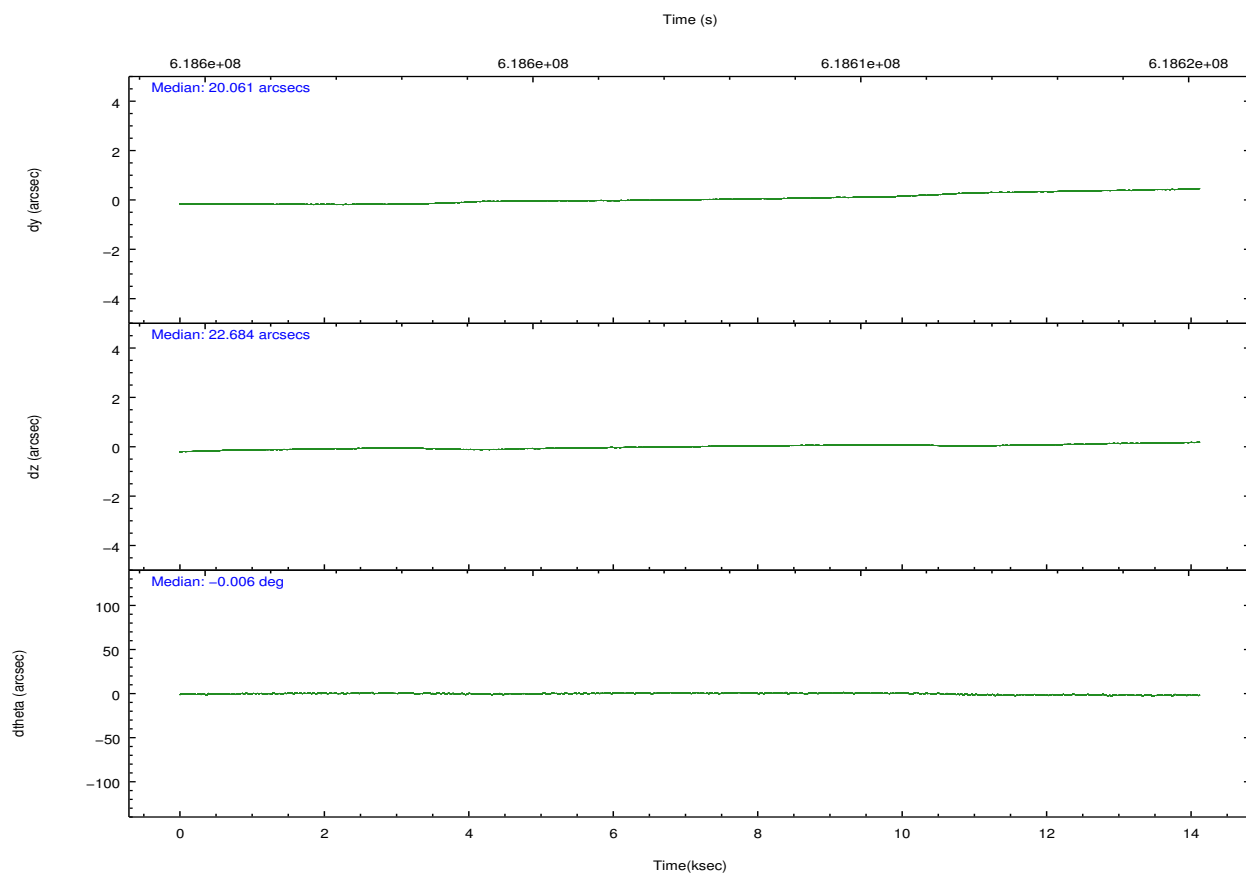
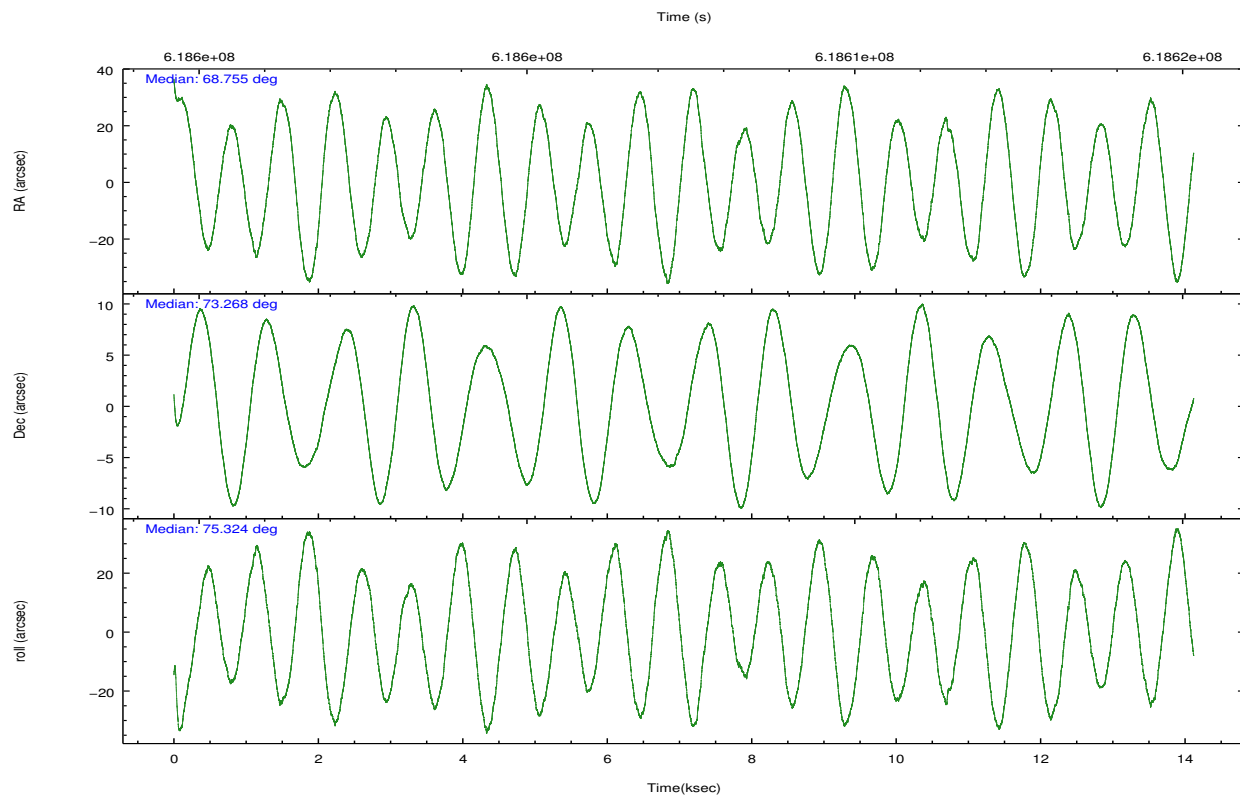
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	95642	87803	155657	94461	123020	124337	grade 0 events	3868	3854	8459	3686	5057	10460
rejected events	84833	77487	78050	83525	68059	89966		4%	4%	5%	3%	4%	8%
rejected %	88%	88%	50%	88%	55%	72%	grade 1 events	51	62	337	51	176	109
								0%	0%	0%	0%	0%	0%
							grade 2 events	2767	2262	24674	2596	11874	8210
								2%	2%	15%	2%	9%	6%
							grade 3 events	1037	1050	2475	1046	4686	3636
								1%	1%	1%	1%	3%	2%
							grade 4 events	1054	1040	2380	1112	4481	3425
								1%	1%	1%	1%	3%	2%
							grade 5 events	3914	4548	11060	4586	12406	6843
								4%	5%	7%	4%	10%	5%
							grade 6 events	2089	2116	39651	2501	28891	8649
								2%	2%	25%	2%	23%	6%
							grade 7 events	80862	72871	66621	78883	55449	83005
								84%	82%	42%	83%	45%	66%

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	68.781280	68.75490619761756	CCD I2 on	O1	Y
[deg] Pointing Dec	73.241851	73.26822620793786	CCD I3 on	O2	Y
[deg] Pointing Roll	75.150770	75.33267533516792	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	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	Y	Y
[s] Observation start time (MET)	618600453.184000	618599093.66641	CCD S5 on	N	N
Observation start date	2017-08-08T17:26:24	2017-08-08T17:04:53	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	618614453.184000	618615354.26736	On-chip summing requested	N	N
Observation end date	2017-08-08T21:19:44	2017-08-08T21:35:54	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



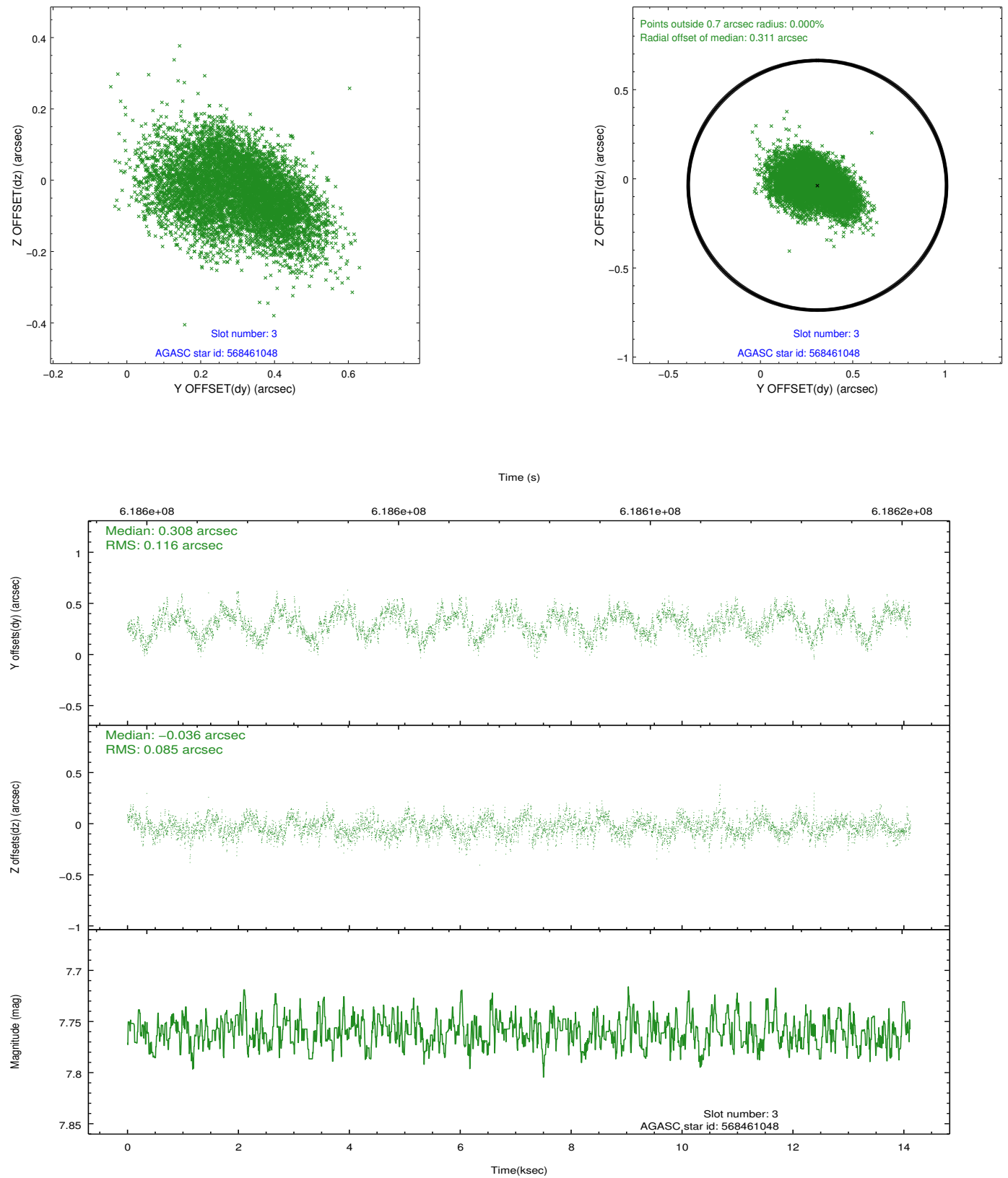


Slot Statistics

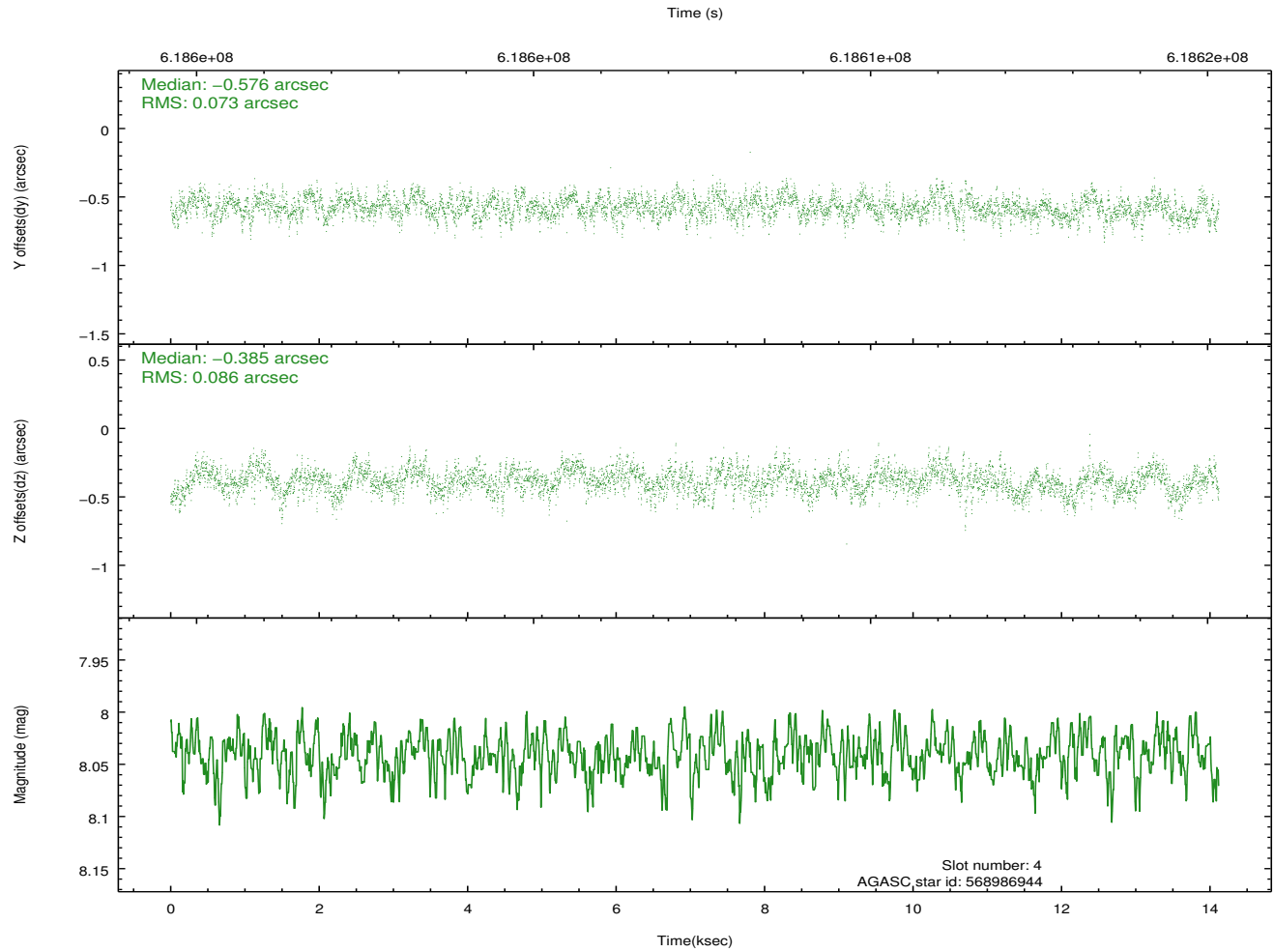
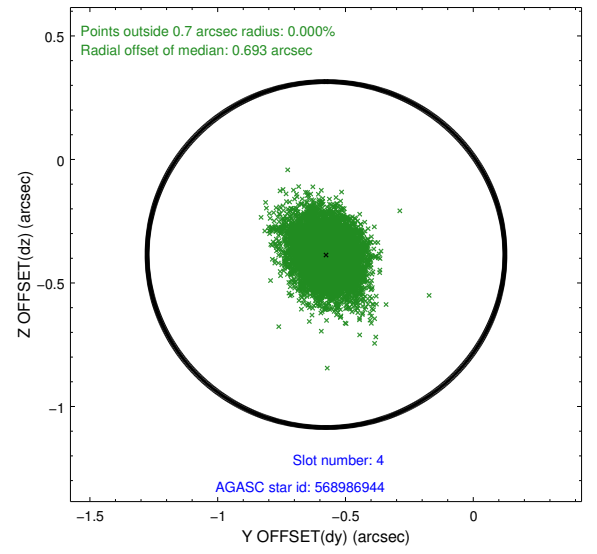
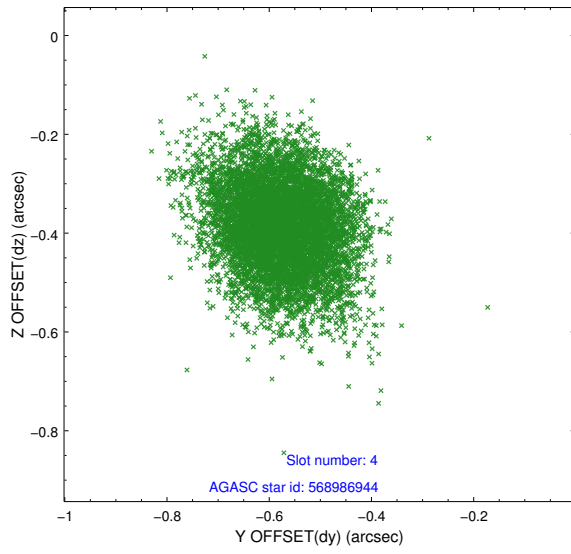
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	6.98	3443	0.000	-0.002	0.011	0.024	0.000000	0.000000	922.81	-1739.89
1	FID		ACIS-S-4	7.01	3444	0.361	0.006	0.007	0.011	0.000000	0.000000	2140.75	163.94
2	FID		ACIS-S-5	7.01	3444	-0.387	0.009	0.010	0.018	0.000000	0.000000	-1826.04	157.87
3	GUIDE	used	568461048	7.76	6886	0.308	-0.036	0.153	0.246	68.797209	72.944268	-1030.71	-290.80
4	GUIDE	used	568986944	8.04	6888	-0.576	-0.385	0.119	0.196	67.610857	73.965335	2228.27	1793.87
5	GUIDE	used	568988504	8.44	6885	-0.051	0.004	0.120	0.202	69.282055	73.673403	1634.08	-90.46
6	GUIDE	used	568991040	7.36	6889	-0.354	-0.372	0.098	0.178	67.755383	73.624872	1074.48	1362.05
7	GUIDE	used	568460264	8.97	6879	0.684	0.795	0.156	0.251	69.855107	72.586801	-1971.72	-1719.06

2.4 Star Slots

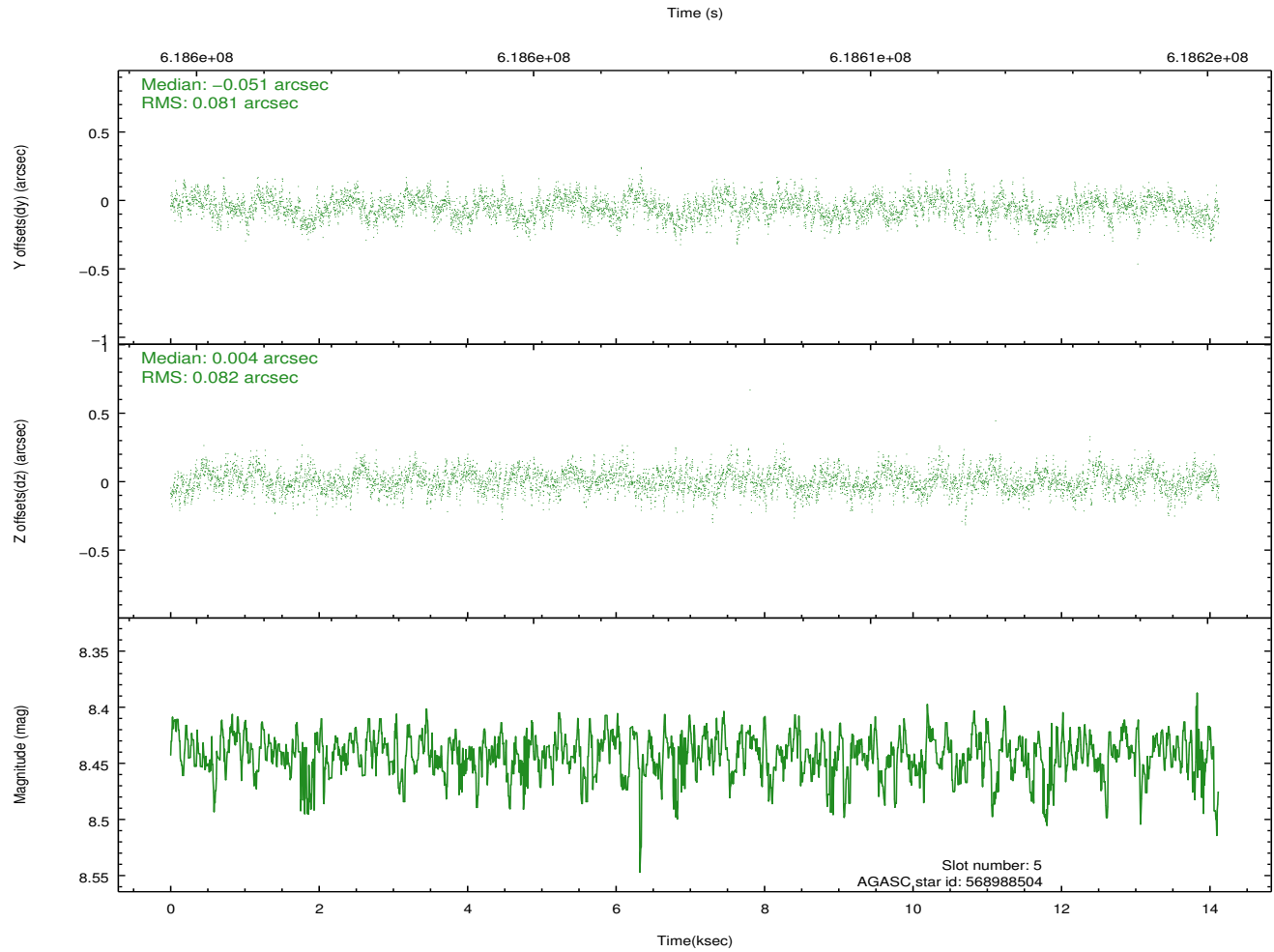
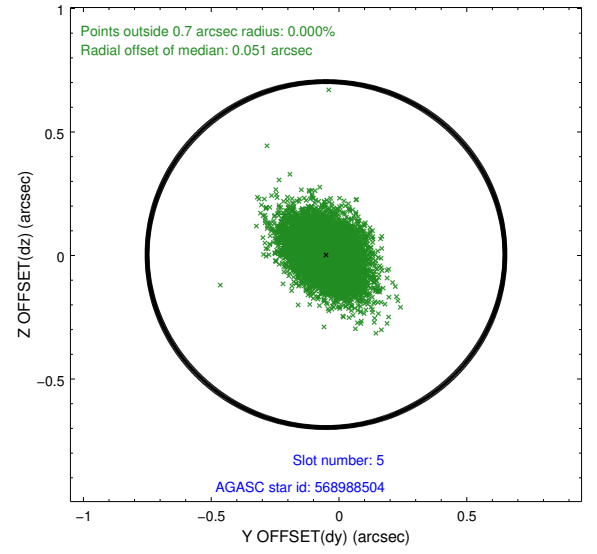
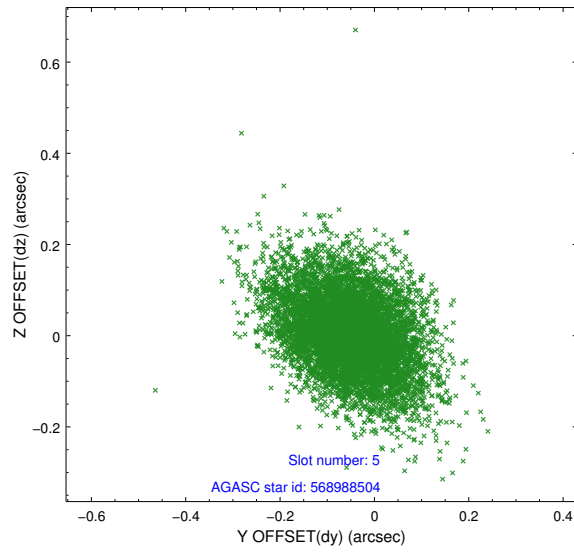
2.4.1 Slot 3



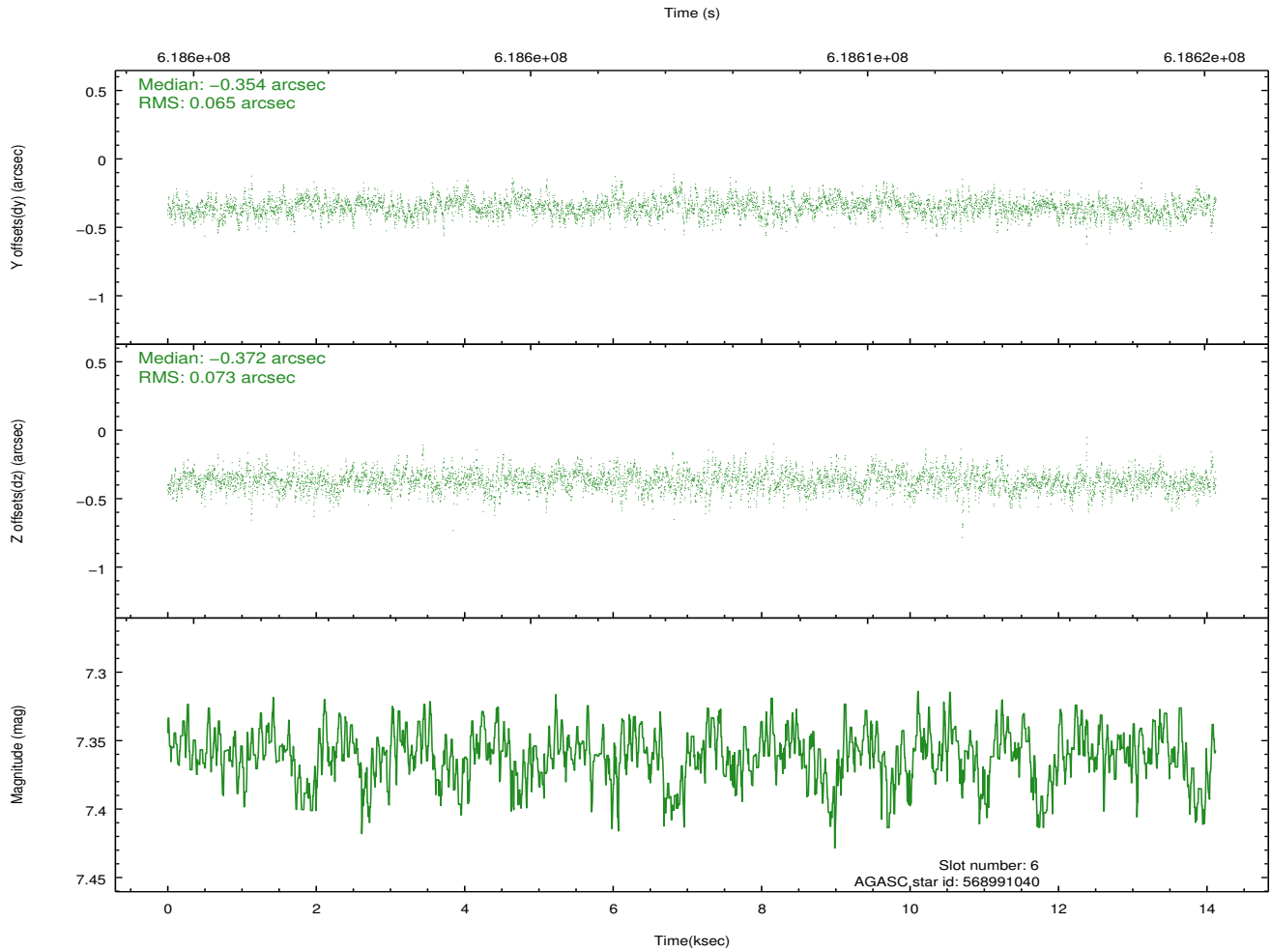
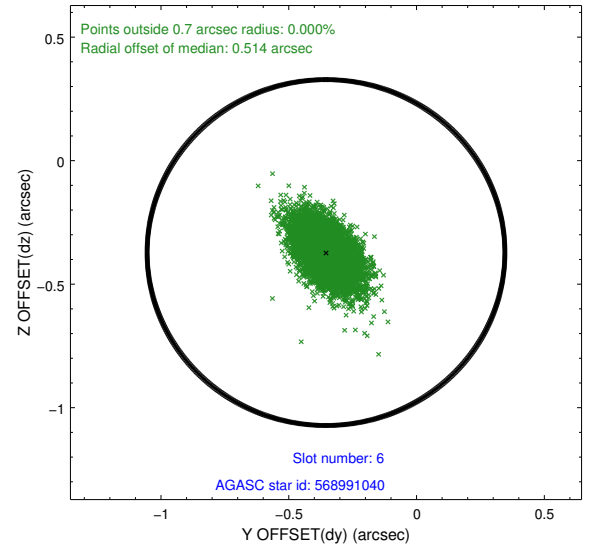
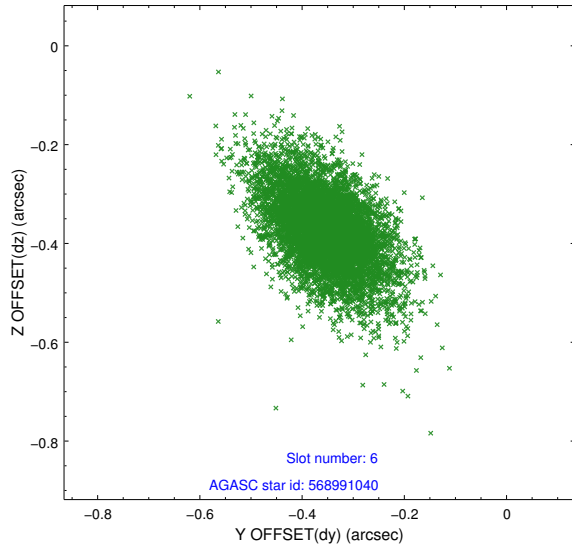
2.4.2 Slot 4



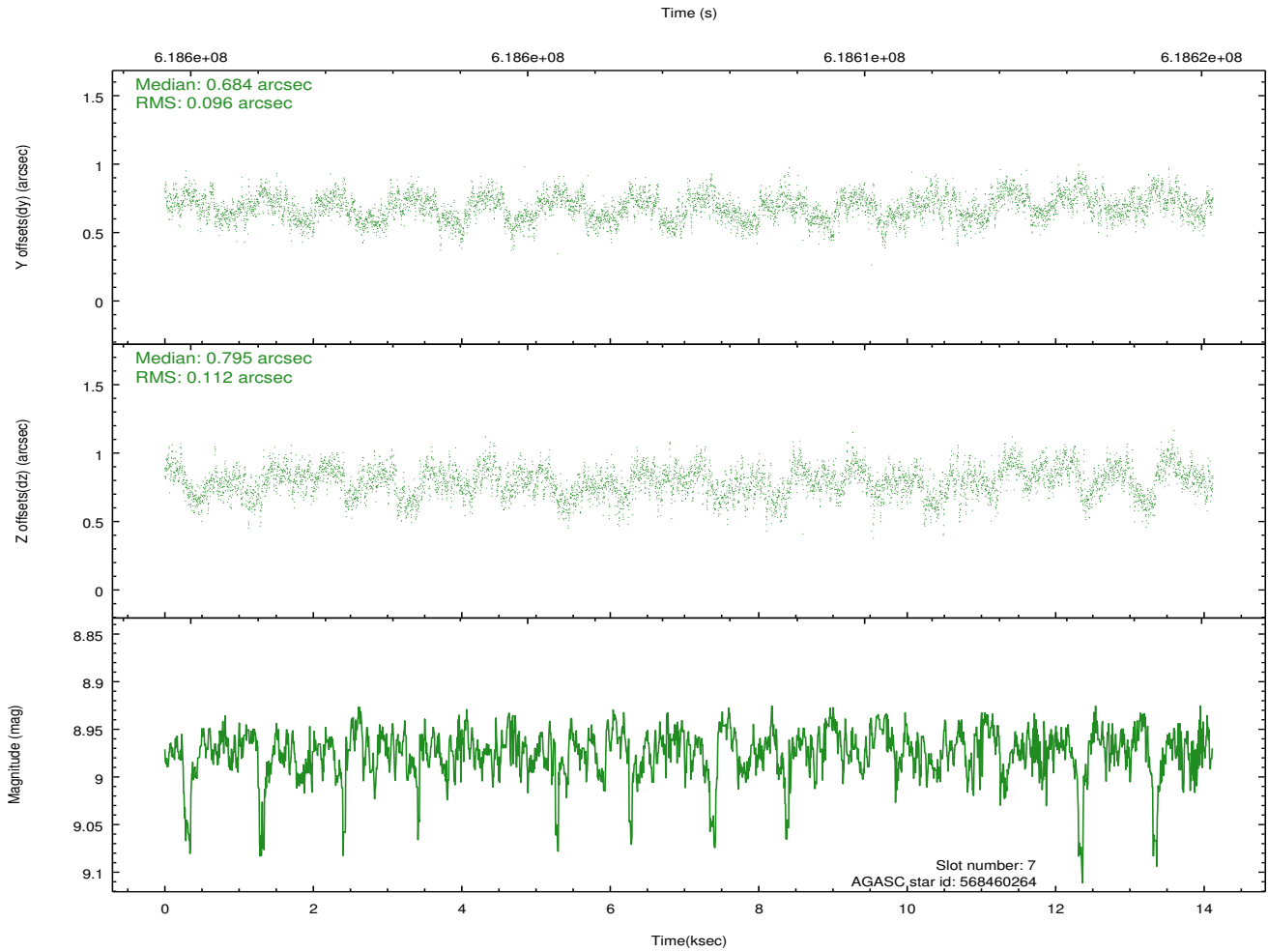
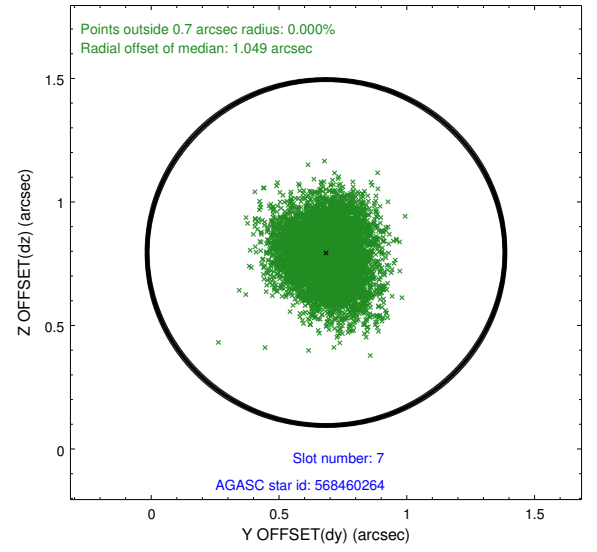
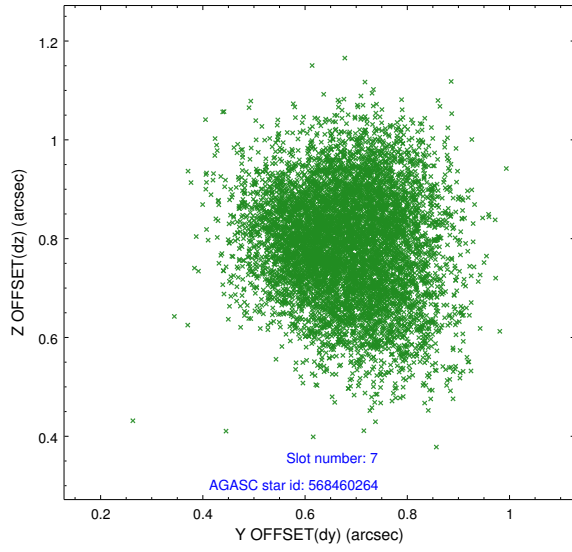
2.4.3 Slot 5



2.4.4 Slot 6

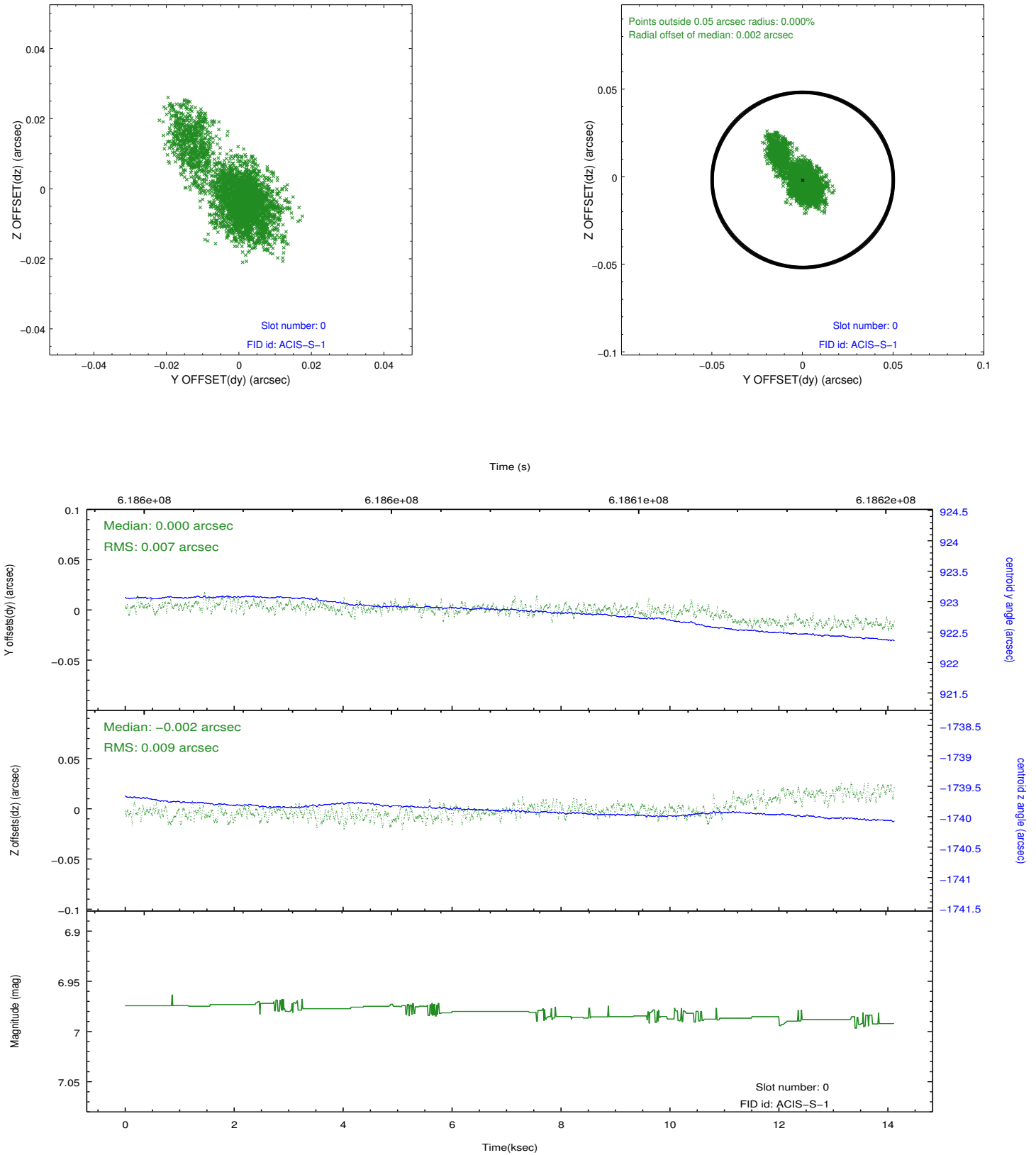


2.4.5 Slot 7

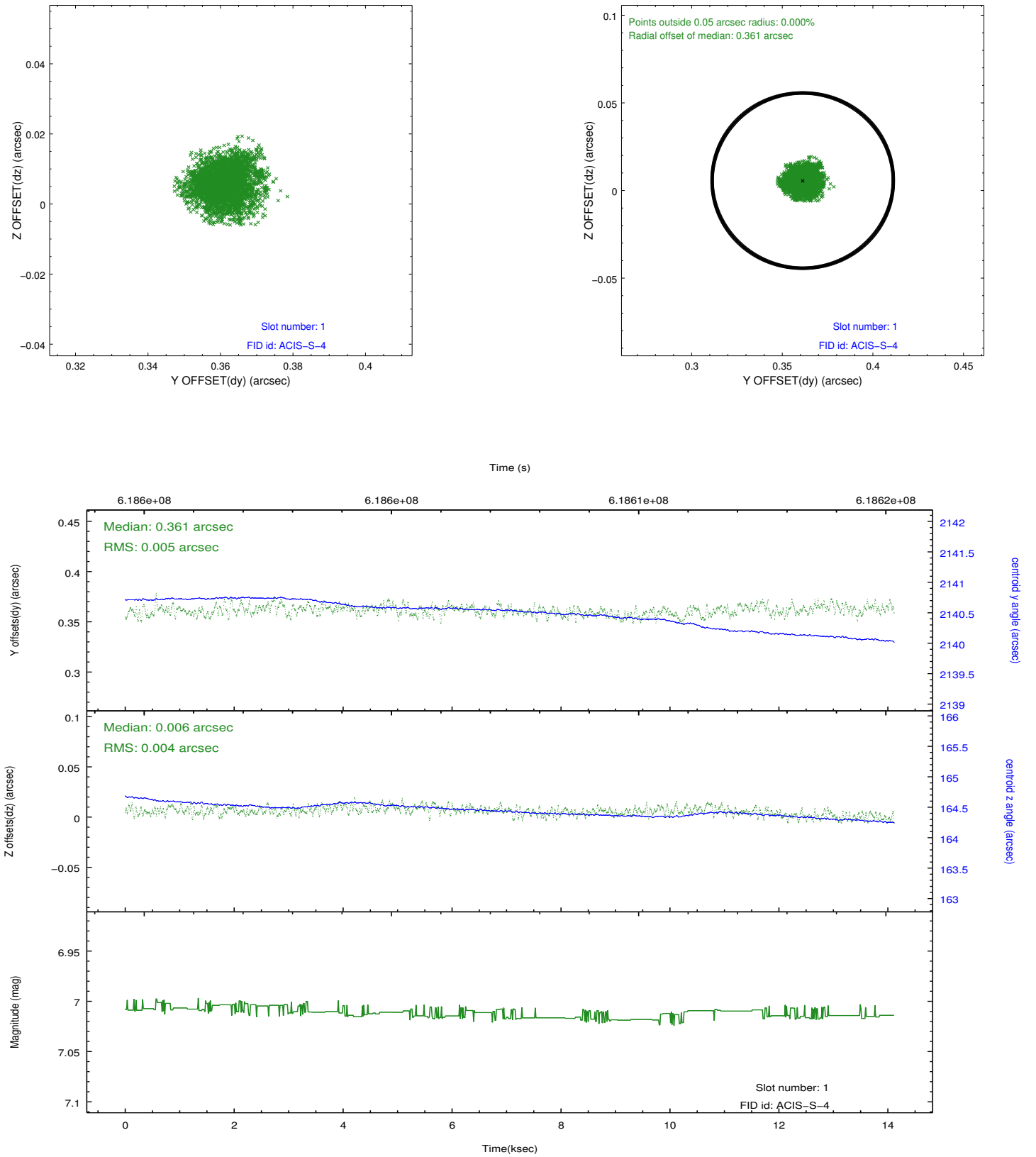


2.5 FID Slots

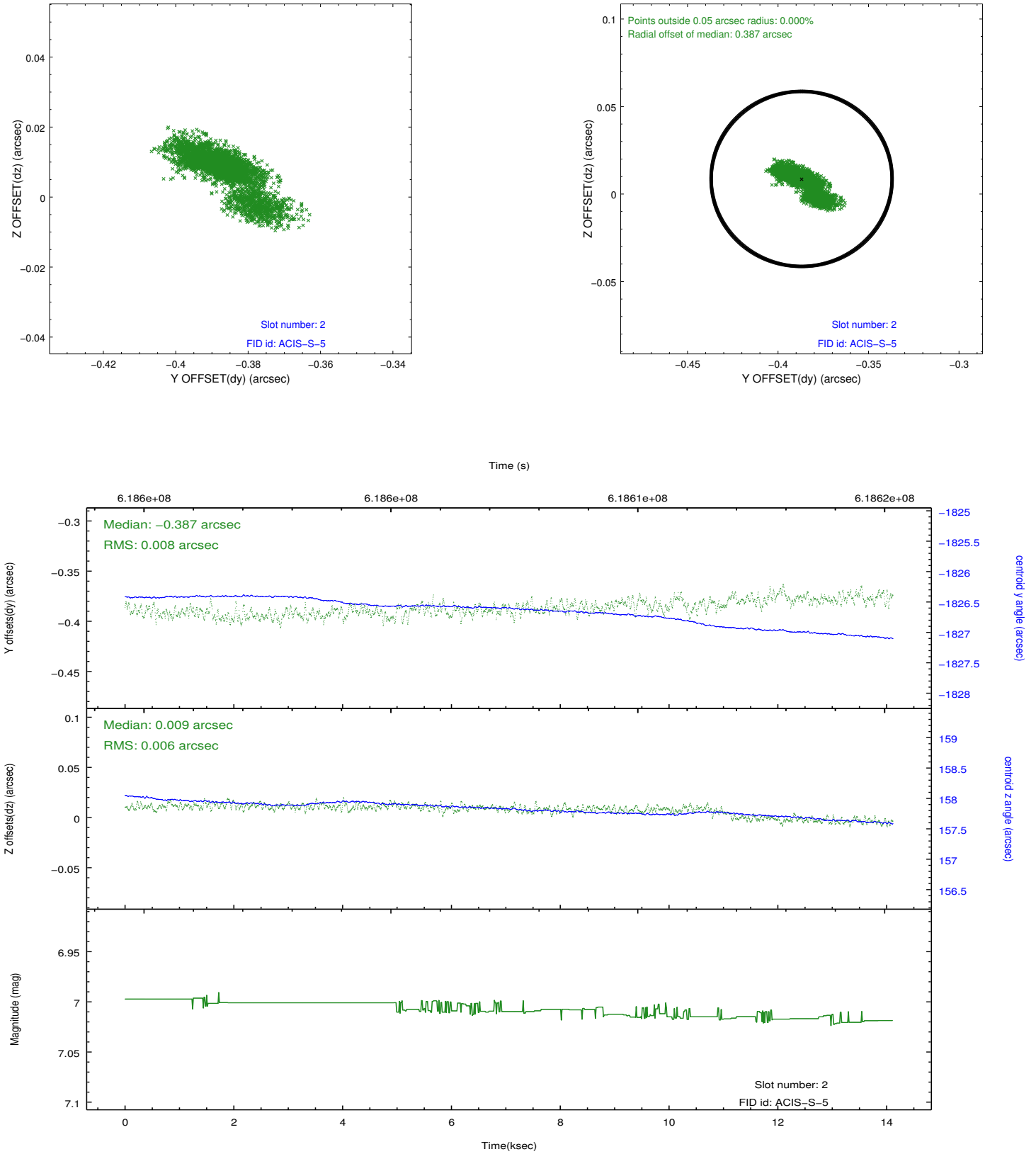
2.5.1 Slot 0



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)	2017.08.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	13.953798346758

A.2 Comments