

V&V Reference Report

L2 ASCDS Version : 8.5.1

Observation 5718 - L2 Version 3
Chandra X-Ray Center

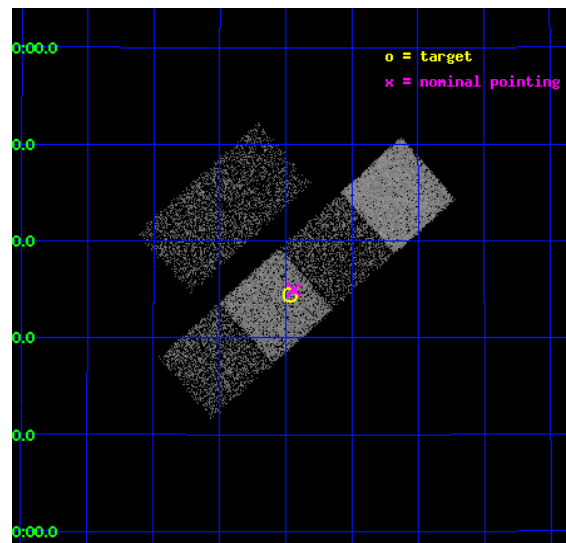
L2 Processing Date : Dec 18 2012

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

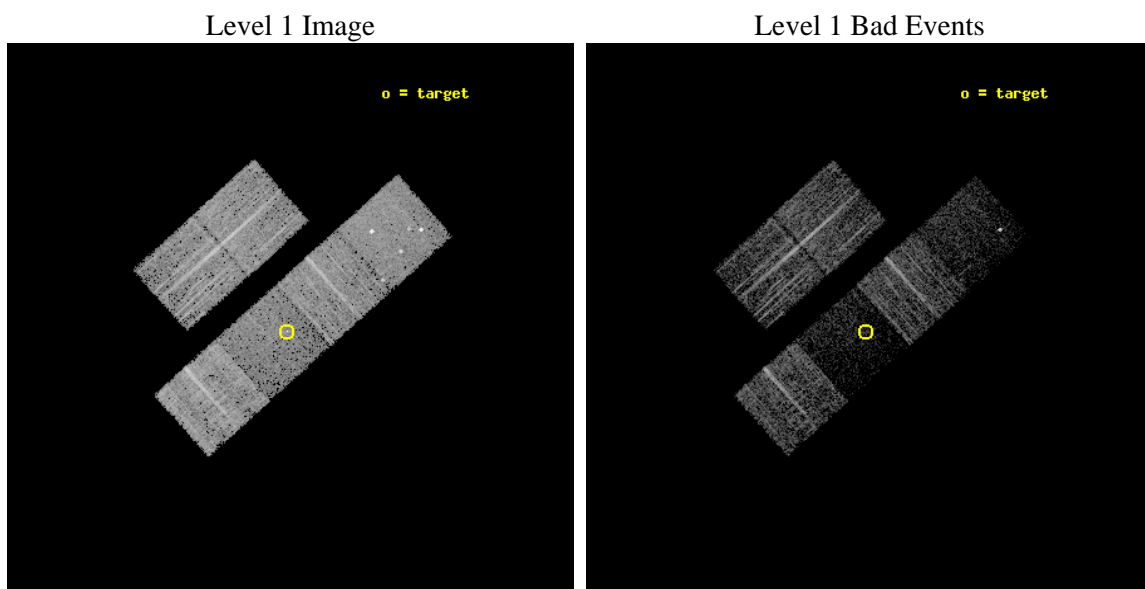
seq_num	701140	Sequence number
obs_id	5718	Observation id
title	What kind of Jets does Nature make? X-ray characterization of the FIRST Flat Spectrum Sample	Proposal title
observer	Dr. Giovanni Fossati	Principal investigator
object	87GB 1235+2251	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	189.49125	Observer's specified target RA [deg]
dec_targ	22.575111	Observer's specified target Dec [deg]
ra_nom	189.48483122148	Nominal RA [deg]
dec_nom	22.582752267802	Nominal Dec [deg]
roll_nom	138.11677203491	Nominal Roll [deg]
revision	3	Processing version of data
ontime	4956.7999815345	Sum of GTIs [s]
livetime	4894.0339955417	Livetime [s]
ontime2	4956.7999815345	Sum of GTIs [s]
ontime3	4956.7999815345	Sum of GTIs [s]
ontime5	4956.7999815345	Sum of GTIs [s]
ontime6	4956.7999815345	Sum of GTIs [s]
ontime7	4956.7999815345	Sum of GTIs [s]
ontime8	4956.7999815345	Sum of GTIs [s]
l2events	28561	Number of level 2 events



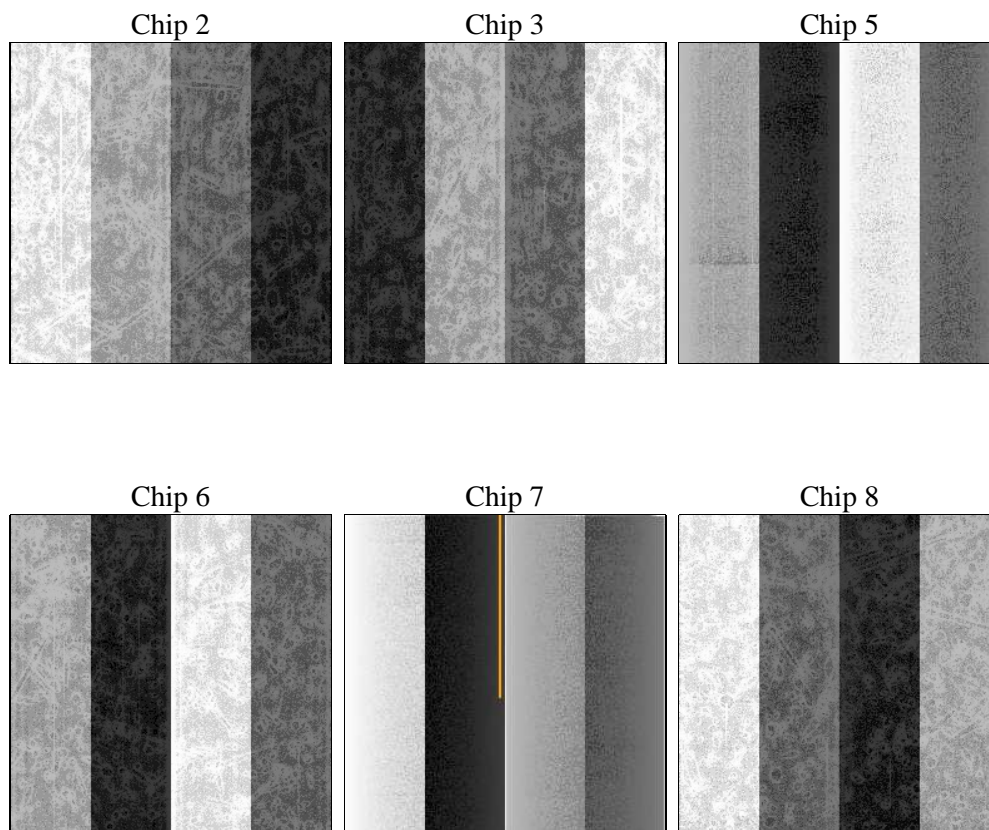
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.5.1	Processing system revision	ontime	4956.7999815345	Sum of GTIs [s]
caldsver	4.5.5	 	ontime2	4956.7999815345	Sum of GTIs [s]
date	2012-12-18T07:10:26	Date and time of file creation	ontime3	4956.7999815345	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	4956.7999815345	Sum of GTIs [s]
			ontime6	4956.7999815345	Sum of GTIs [s]
			ontime7	4956.7999815345	Sum of GTIs [s]
			ontime8	4956.7999815345	Sum of GTIs [s]
			l1events	150762	Number of level 1 events

2.1.4 Events

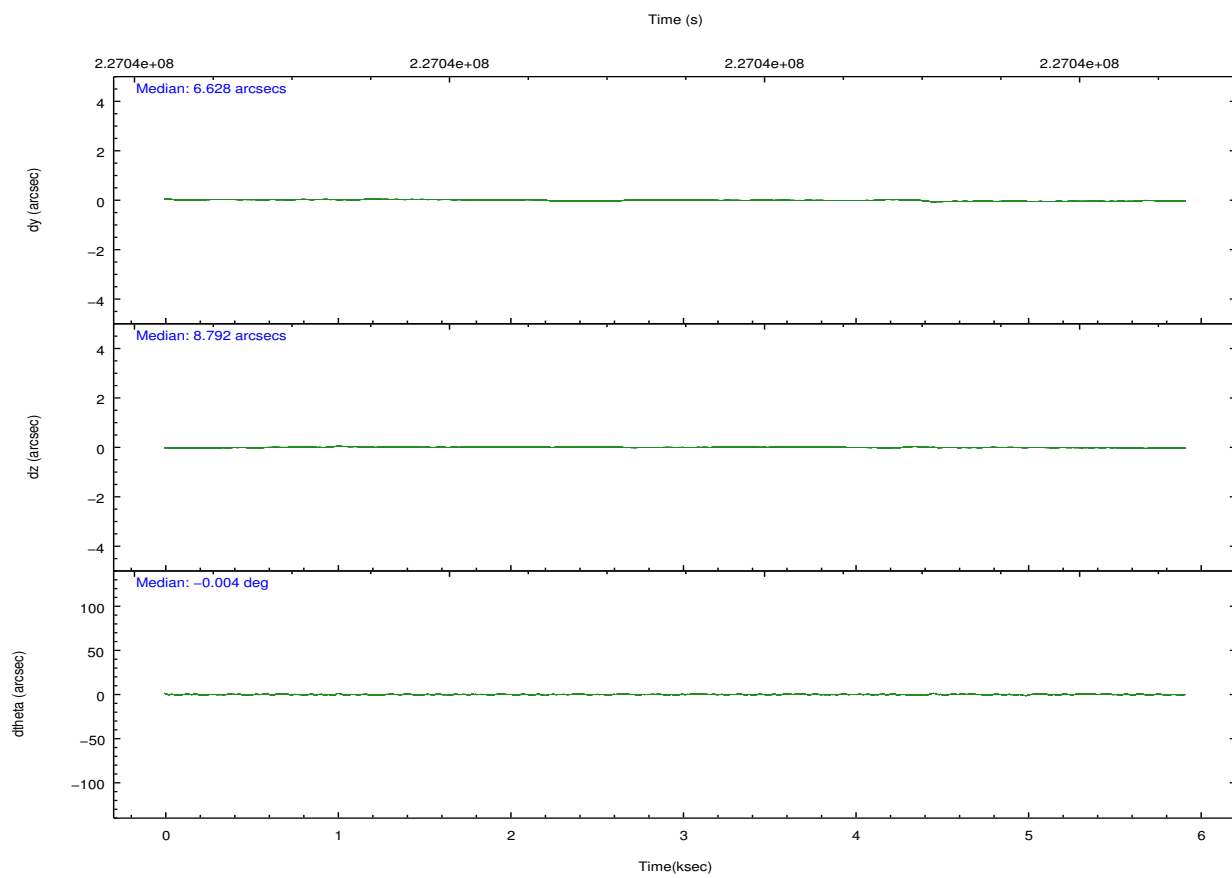
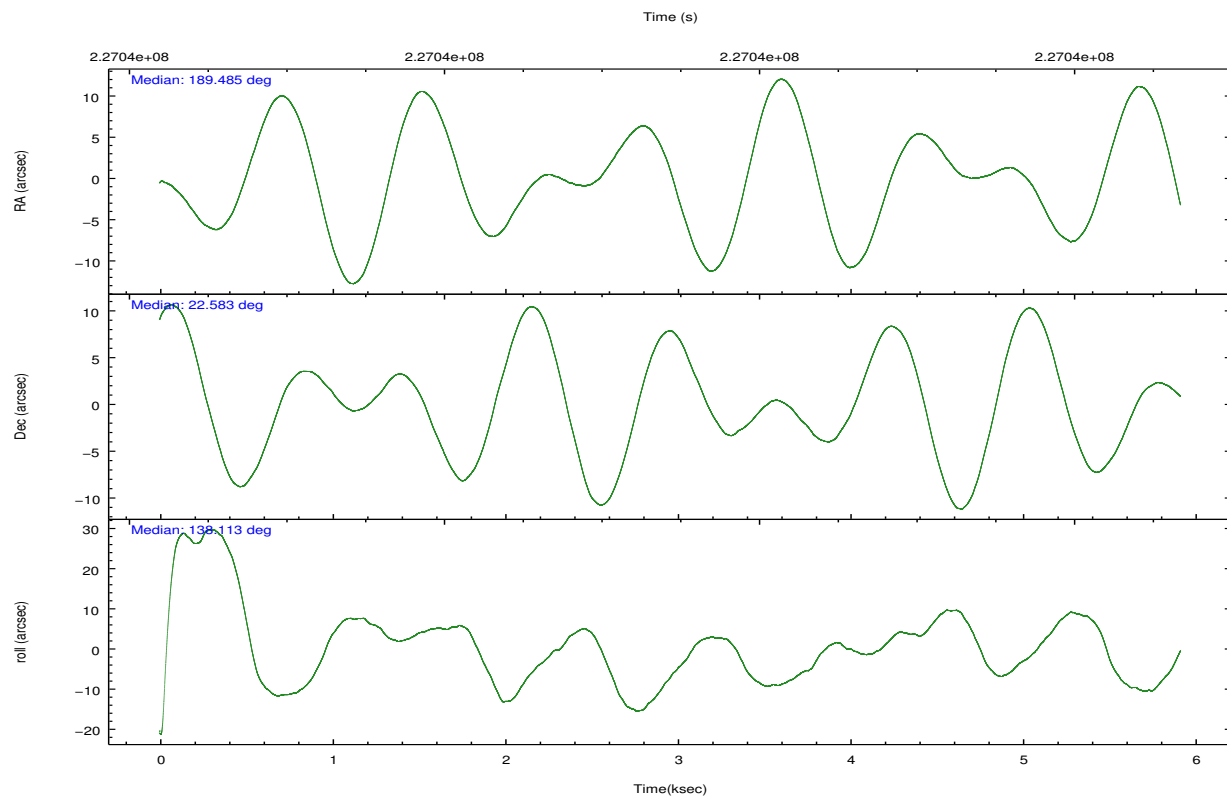
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	27465	26354	24987	25043	15411	31502
rejected events	25302	24249	9527	22724	6609	23876
rejected %	92%	92%	38%	90%	42%	75%

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	881	882	3179	911	1127	2109
	3%	3%	12%	3%	7%	6%
grade 1 events	15	19	78	13	31	34
	0%	0%	0%	0%	0%	0%
grade 2 events	476	440	4819	502	2037	1713
	1%	1%	19%	2%	13%	5%
grade 3 events	217	241	711	261	898	818
	0%	0%	2%	1%	5%	2%
grade 4 events	257	227	657	256	881	778
	0%	0%	2%	1%	5%	2%
grade 5 events	424	504	1891	519	1649	878
	1%	1%	7%	2%	10%	2%
grade 6 events	333	315	6103	391	3863	2209
	1%	1%	24%	1%	25%	7%
grade 7 events	24862	23726	7549	22190	4925	22963
	90%	90%	30%	88%	31%	72%

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	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	189.513742	189.484831221482	Subarray requested	NONE	NONE
[deg] Pointing Dec	22.577479	22.58275226780248	Alternating exposures requested	N	N
[deg] Pointing Roll	137.949040	138.1167720349129	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	227039389.184000	227038062.32583			
Observation start date	2005-03-12T18:28:45	2005-03-12T18:07:42			
[s] Observation end time (MET)	227044389.184000	227045345.46366			
Observation end date	2005-03-12T19:52:05	2005-03-12T20:09:05			
Read mode	TIMED	TIMED			

2.3 Aspect

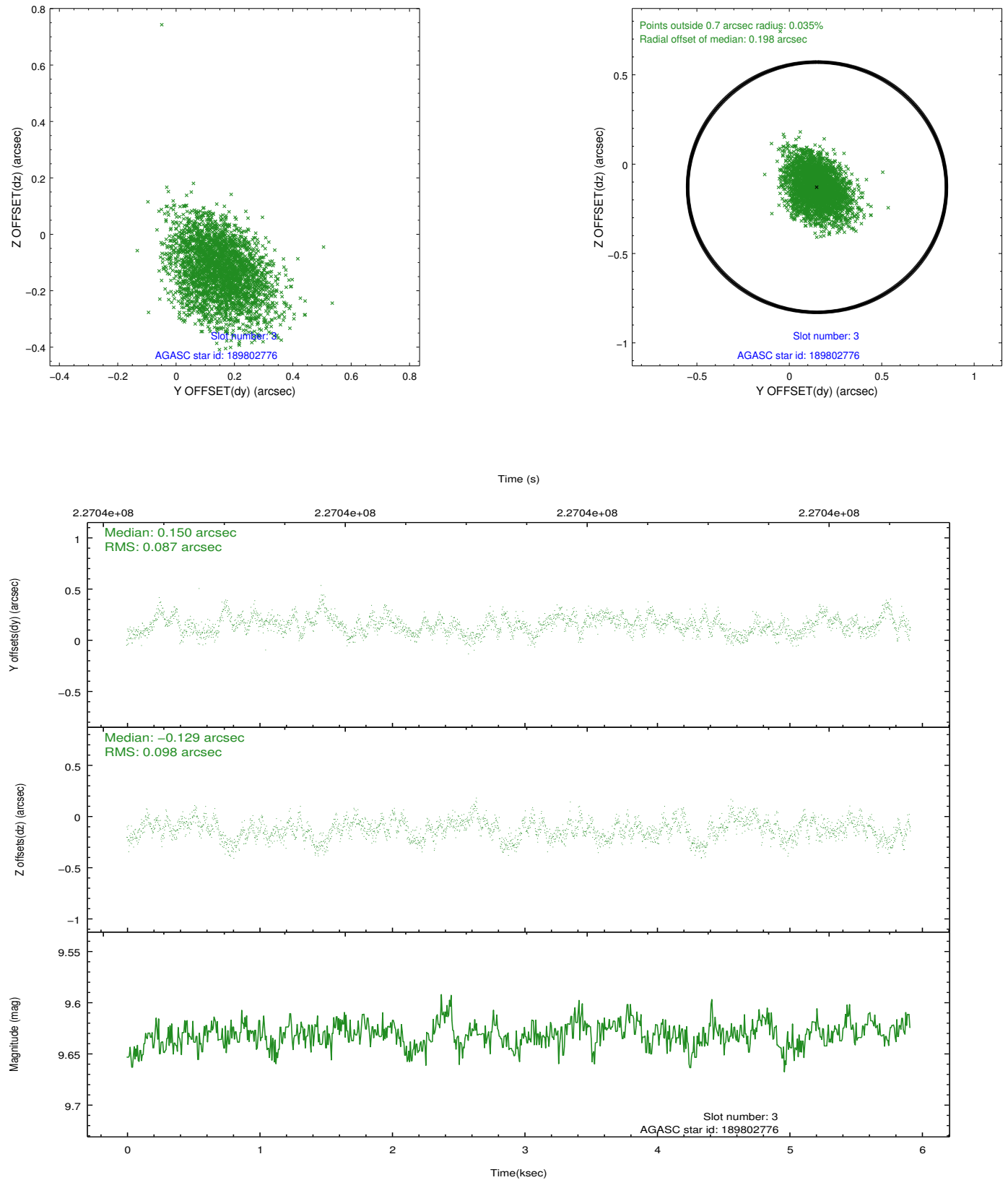


Slot Statistics

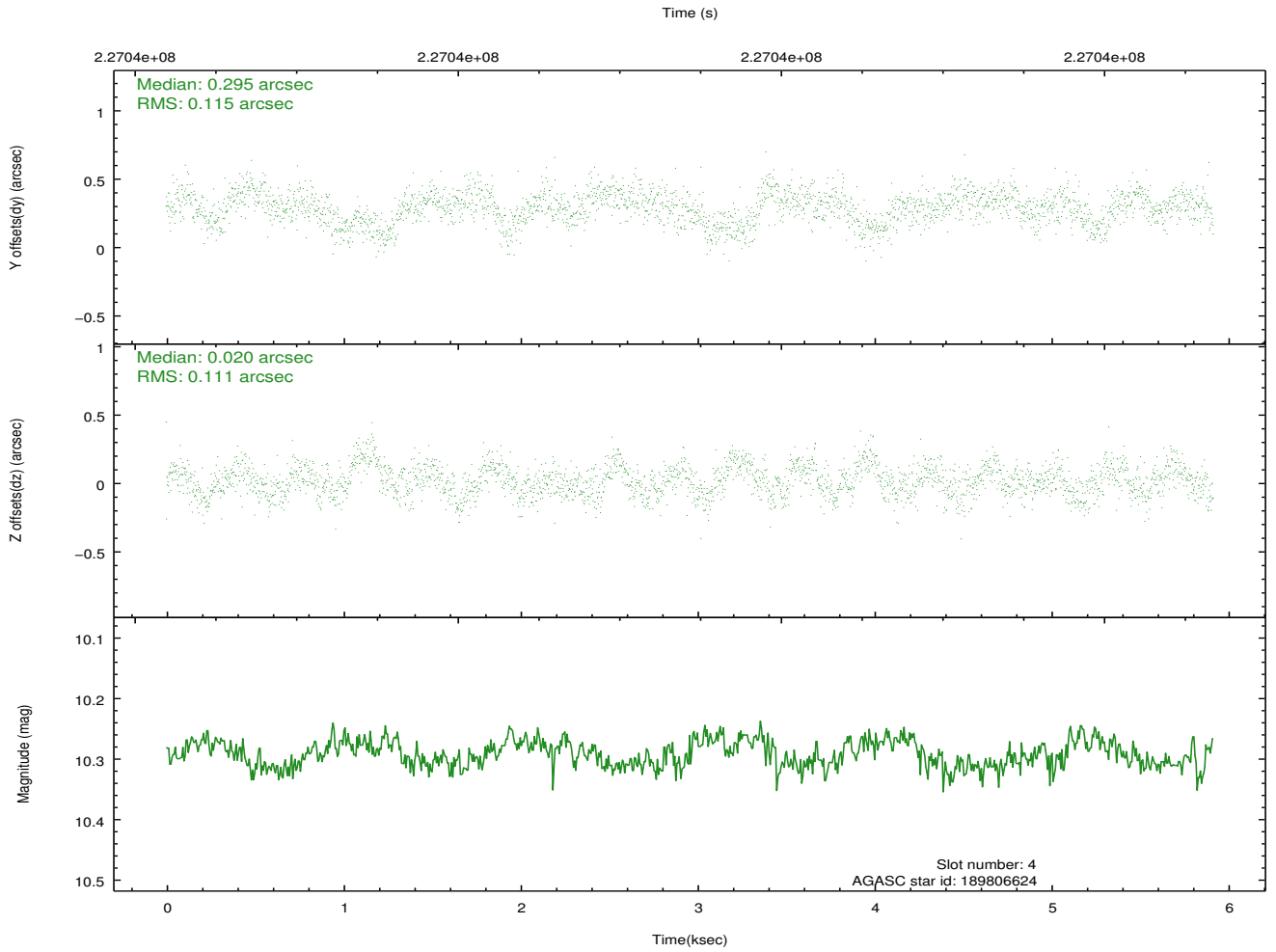
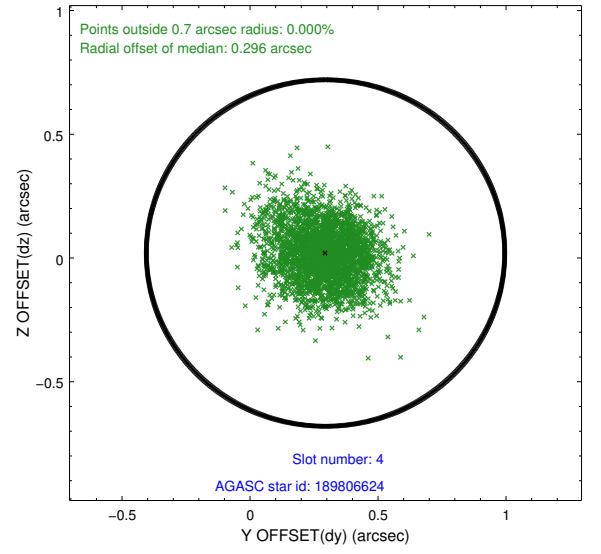
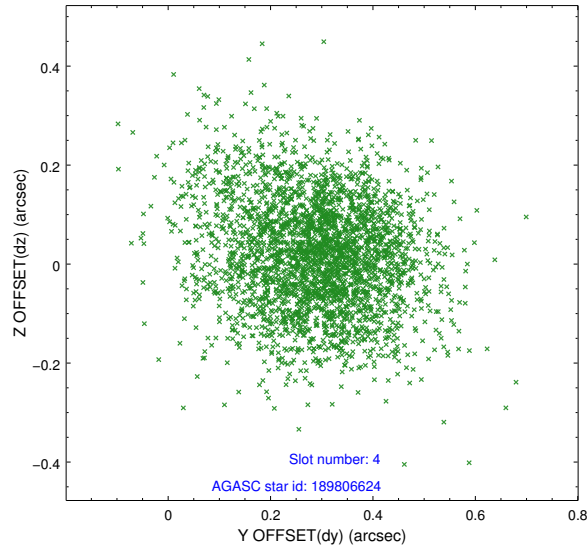
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	1443	-0.039	-0.049	0.006	0.010	0.000000	0.000000	-759.40	-1730.00
1	FID	ACIS-S-4	7.21	1443	0.088	0.032	0.005	0.010	0.000000	0.000000	2153.54	177.52
2	FID	ACIS-S-5	7.23	1443	-0.079	0.025	0.006	0.010	0.000000	0.000000	-1810.99	172.33
3	GUIDE	189802776	9.63	2887	0.150	-0.129	0.140	0.222	188.981383	22.262186	558.84	2029.22
4	GUIDE	189806624	10.29	2884	0.295	0.020	0.167	0.280	189.934725	22.083355	-2232.38	379.93
5	GUIDE	260851360	9.74	2872	0.041	0.048	0.139	0.234	190.235632	22.625925	-1661.50	-1739.77
6	BAD	260863048	10.69	2726	-0.577	0.066	0.257	0.410	189.106386	22.633289	1140.75	756.44
7	GUIDE	260863544	6.24	2886	0.066	0.017	0.106	0.154	189.759086	22.659498	-406.29	-764.66

2.4 Star Slots

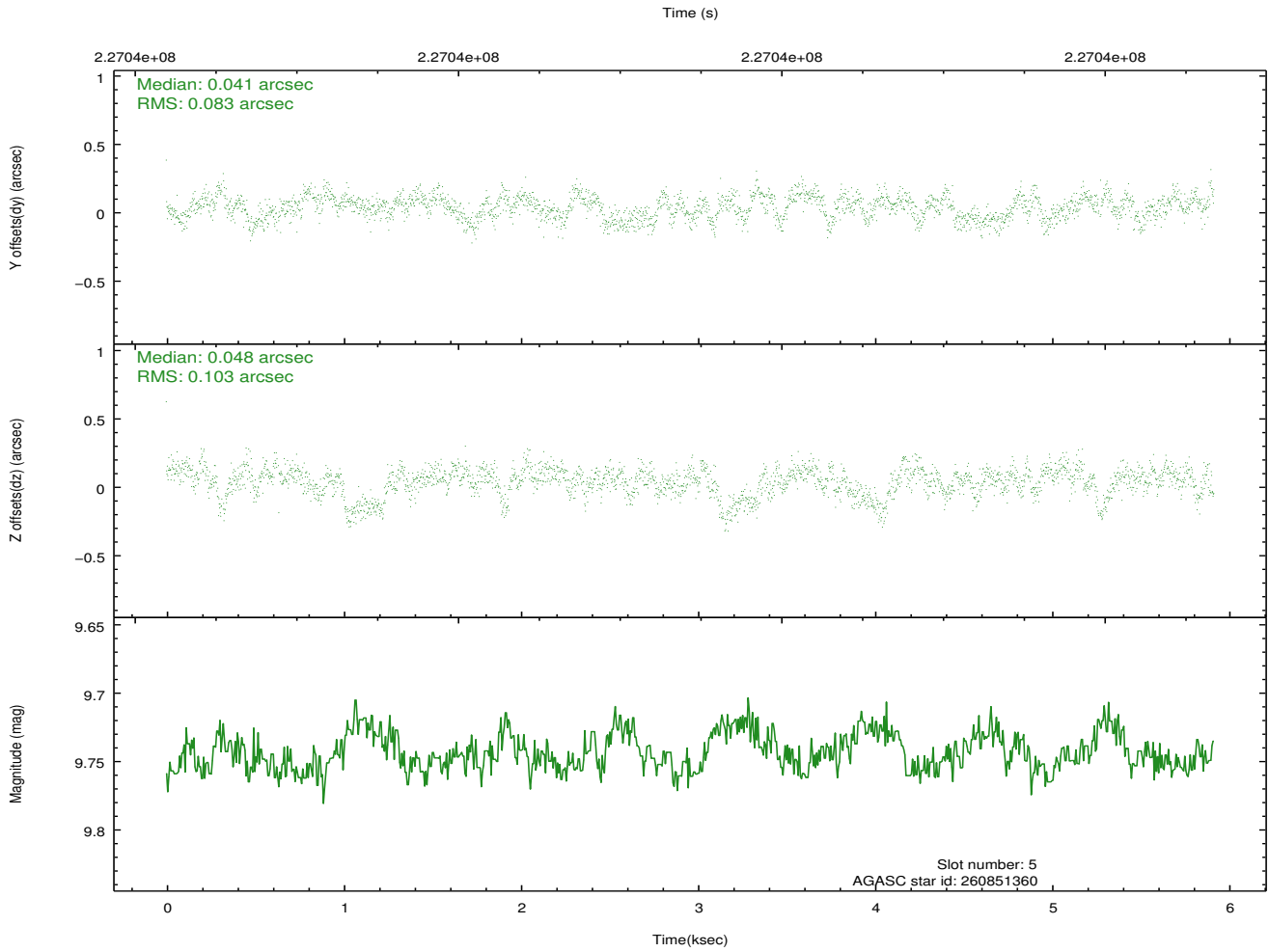
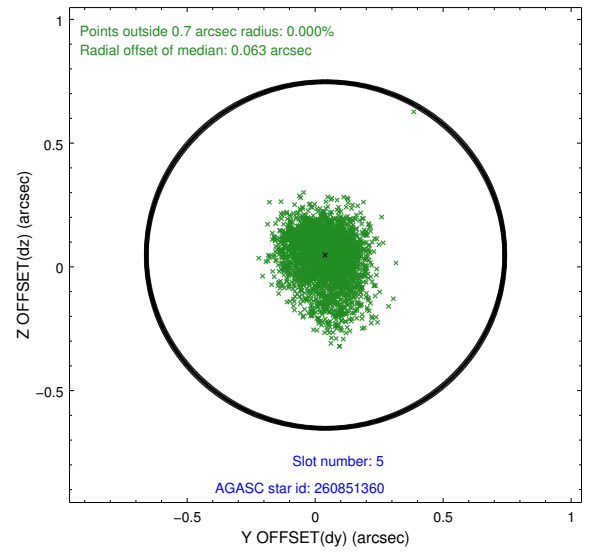
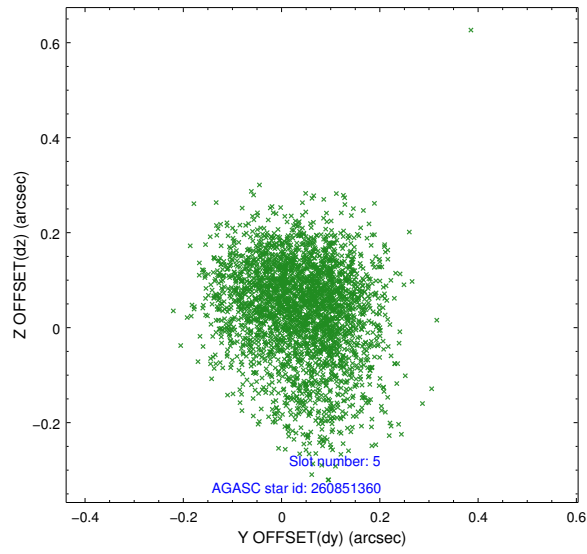
2.4.1 Slot 3



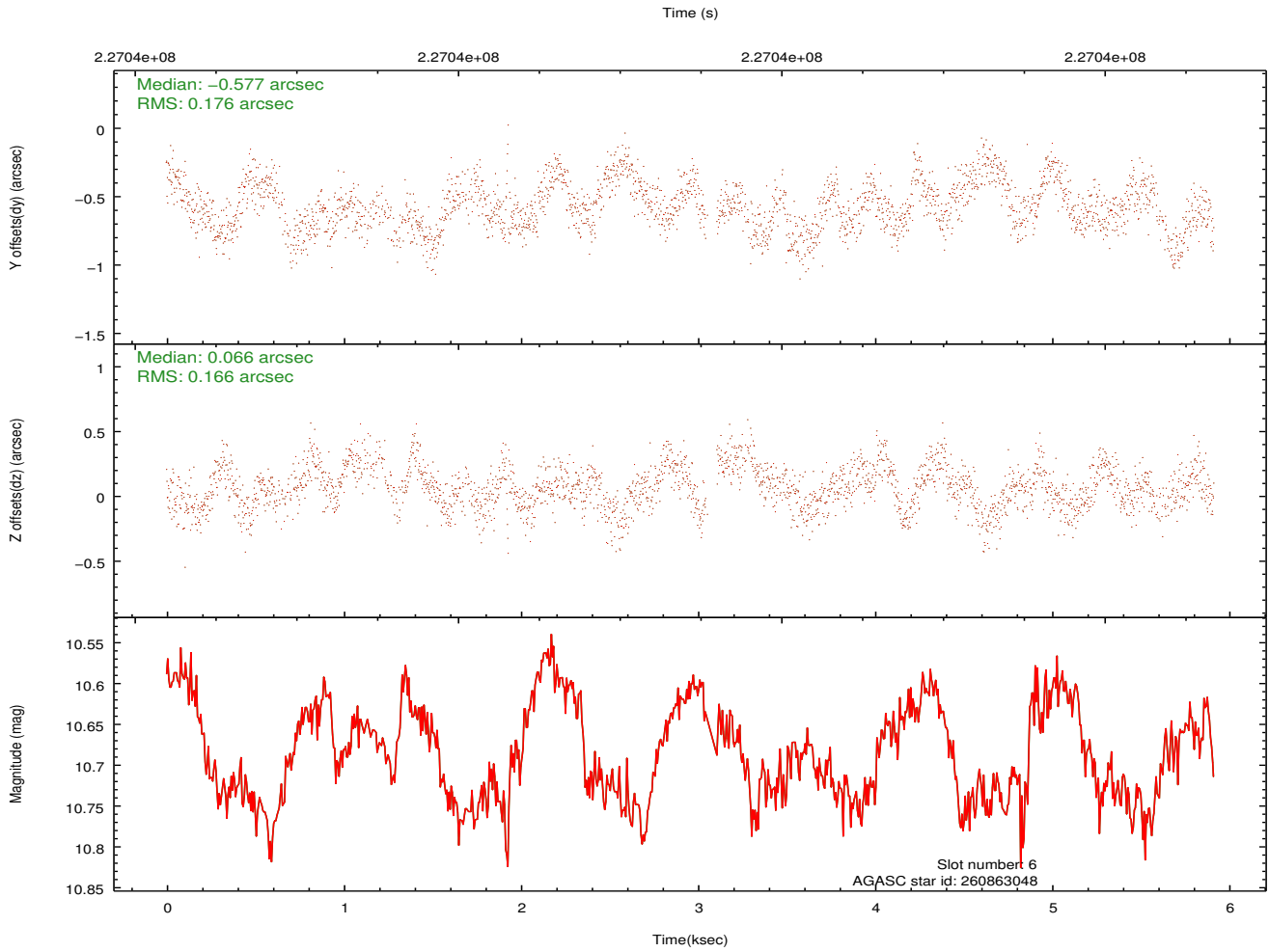
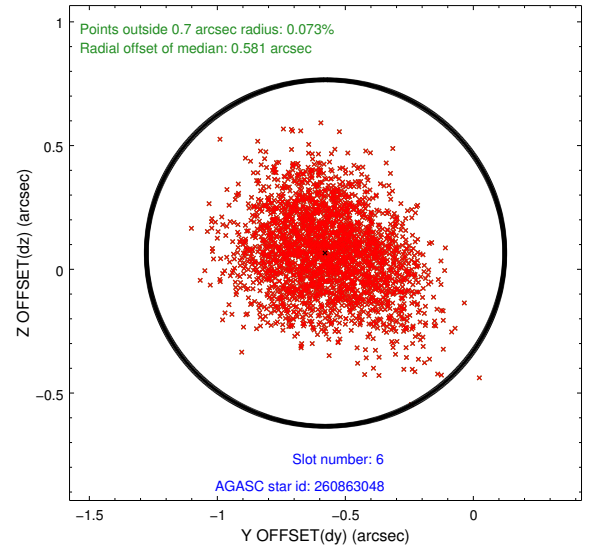
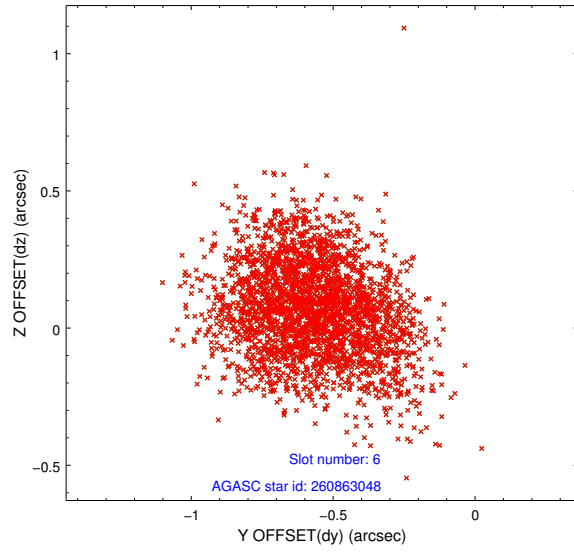
2.4.2 Slot 4



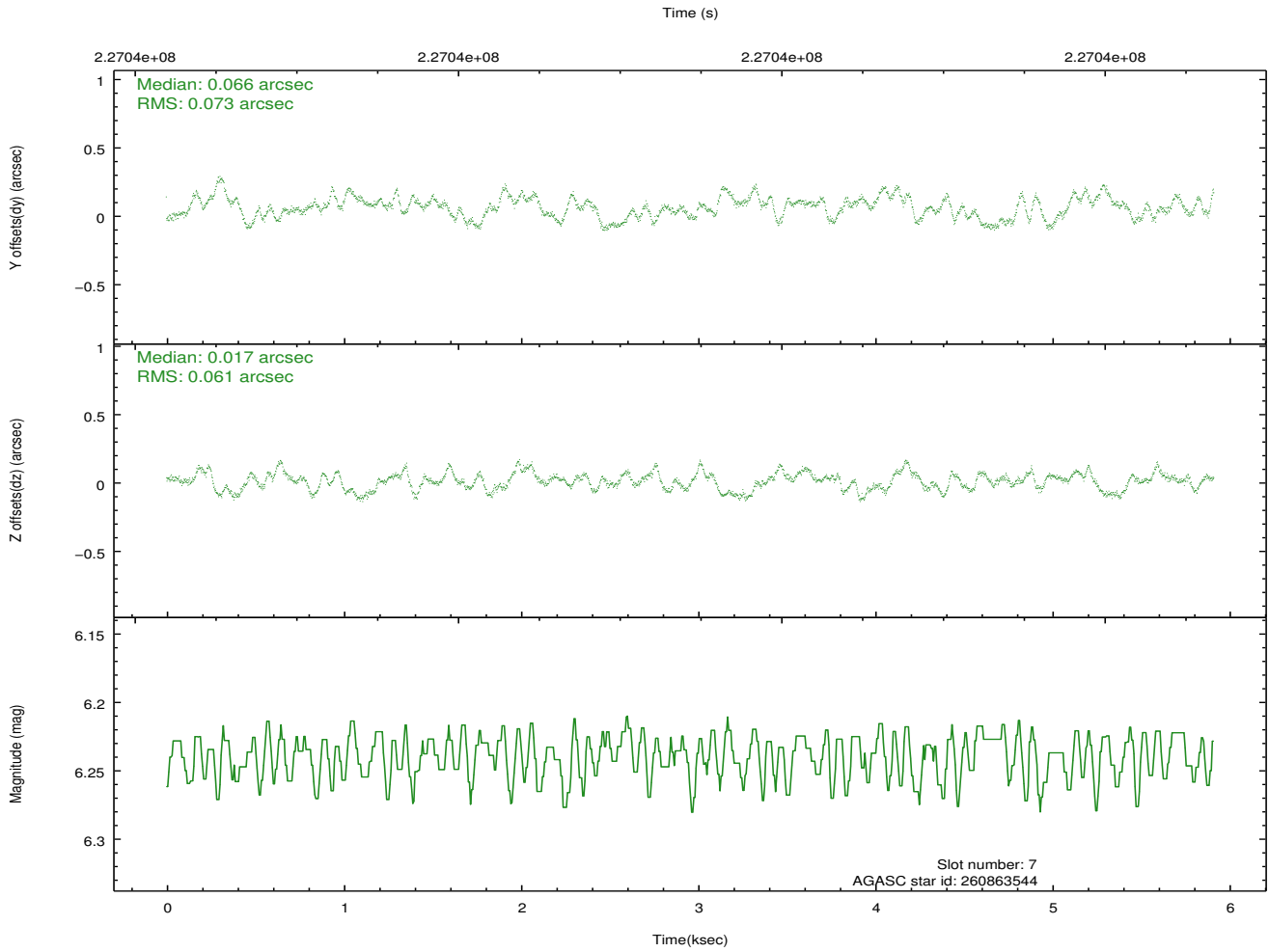
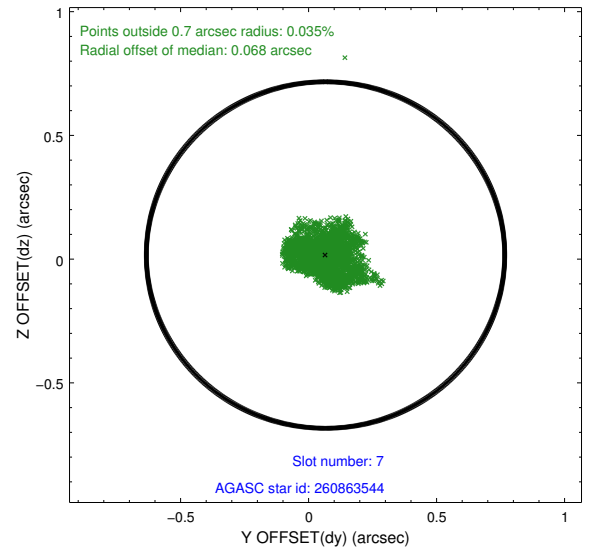
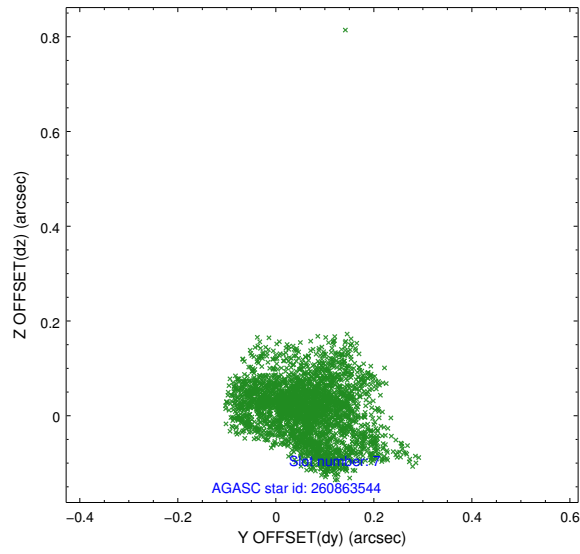
2.4.3 Slot 5



2.4.4 Slot 6

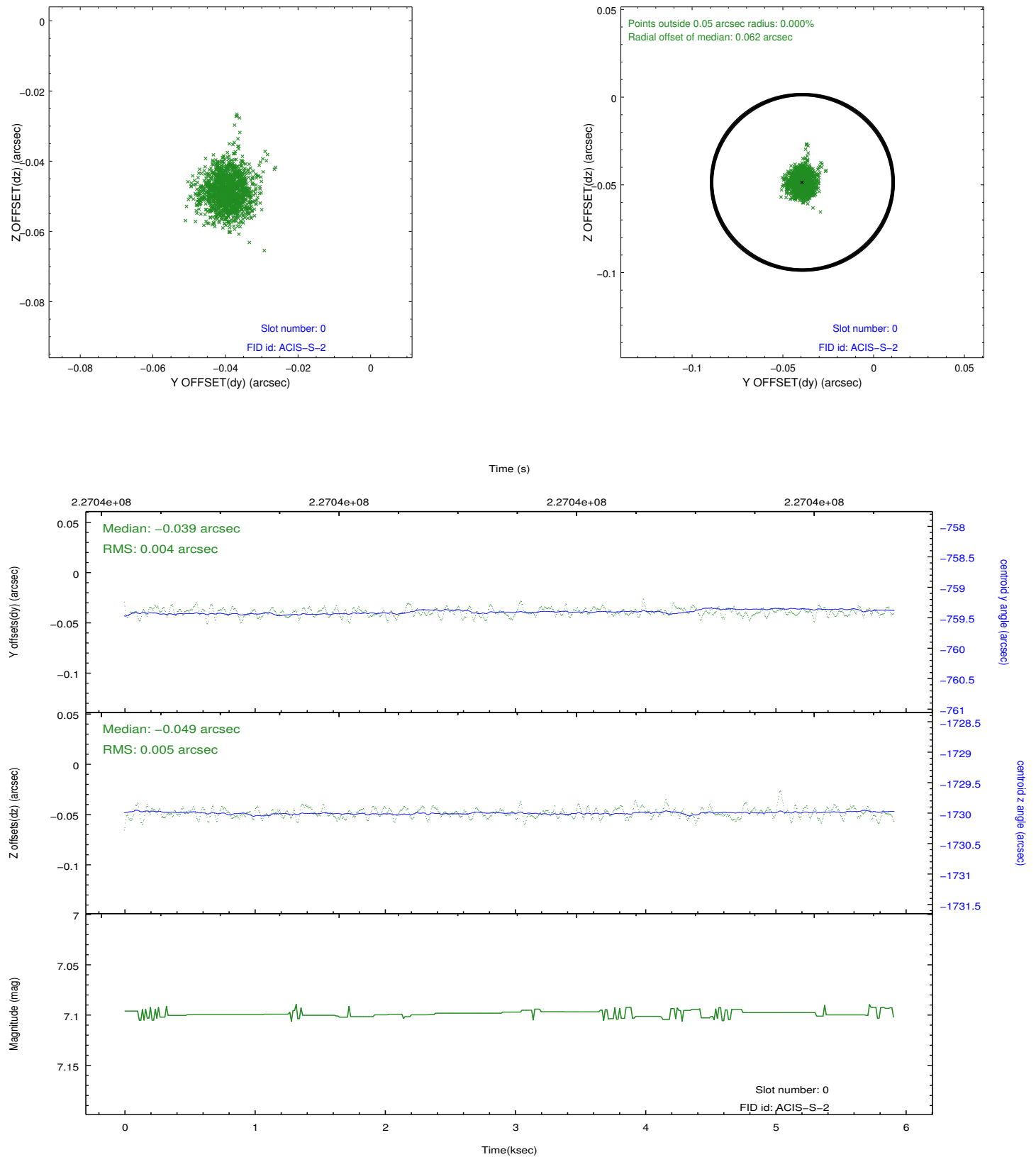


2.4.5 Slot 7

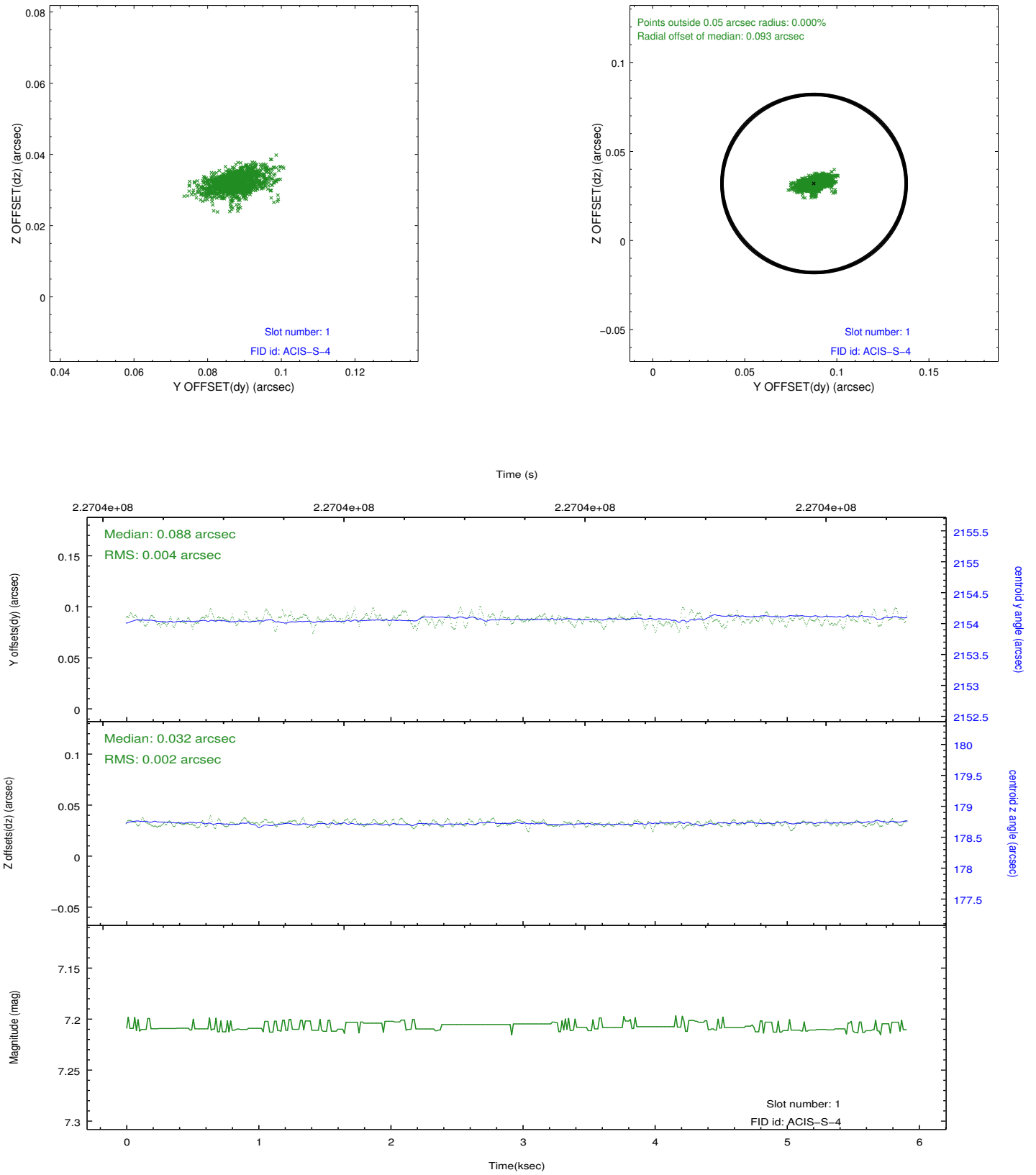


2.5 FID Slots

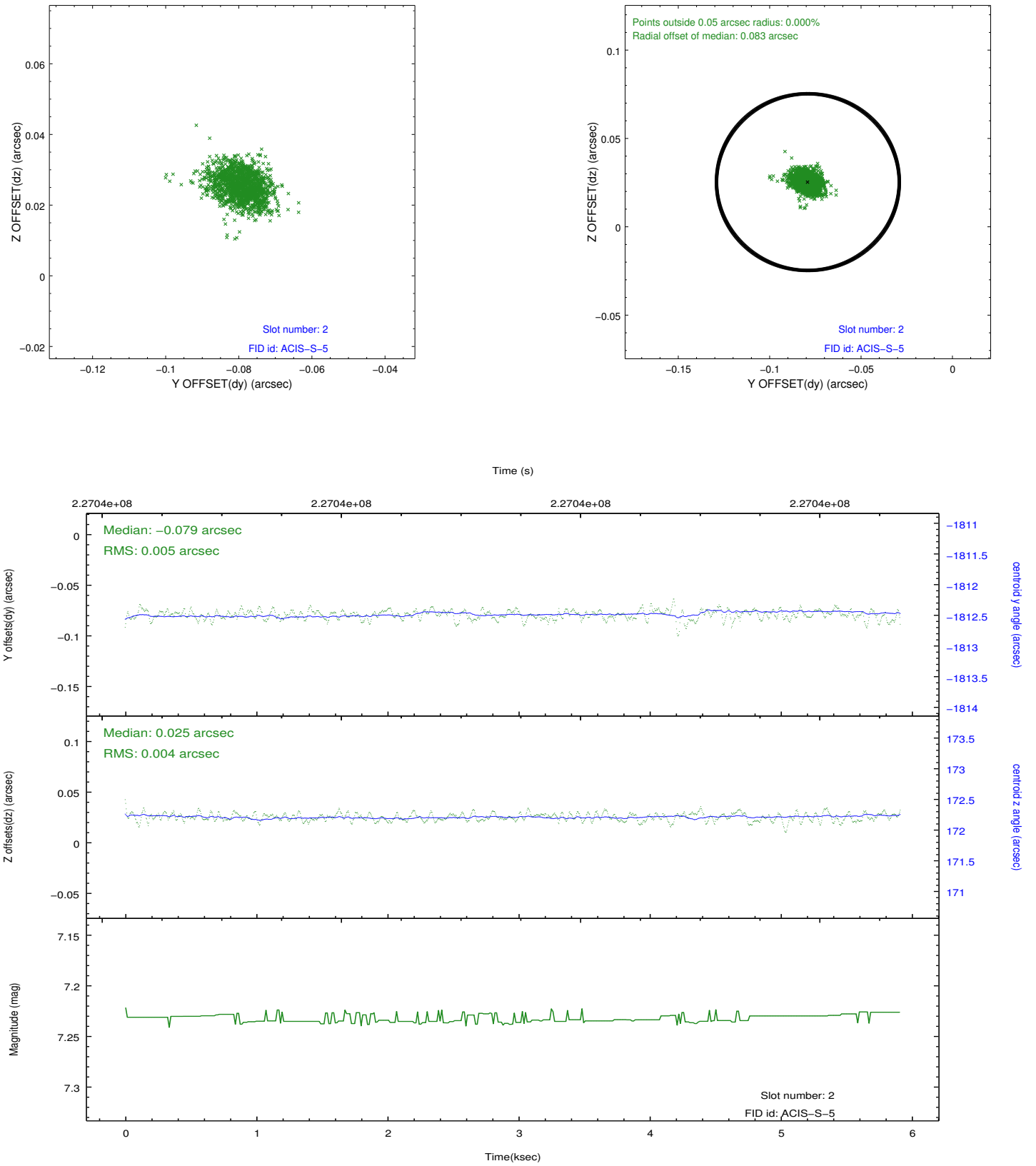
2.5.1 Slot 0



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)	2013.01.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.956799

A.2 Comments