

V&V Reference Report

L2 ASCDS Version : 10.2.4

Observation 14505 - L2 Version 1
Chandra X-Ray Center

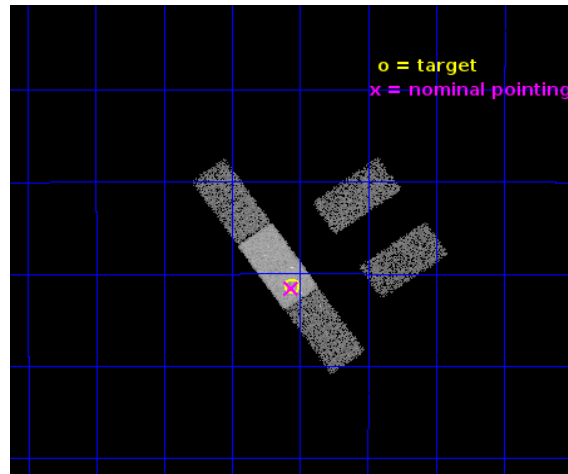
L2 Processing Date : Jul 15 2014

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1 Front

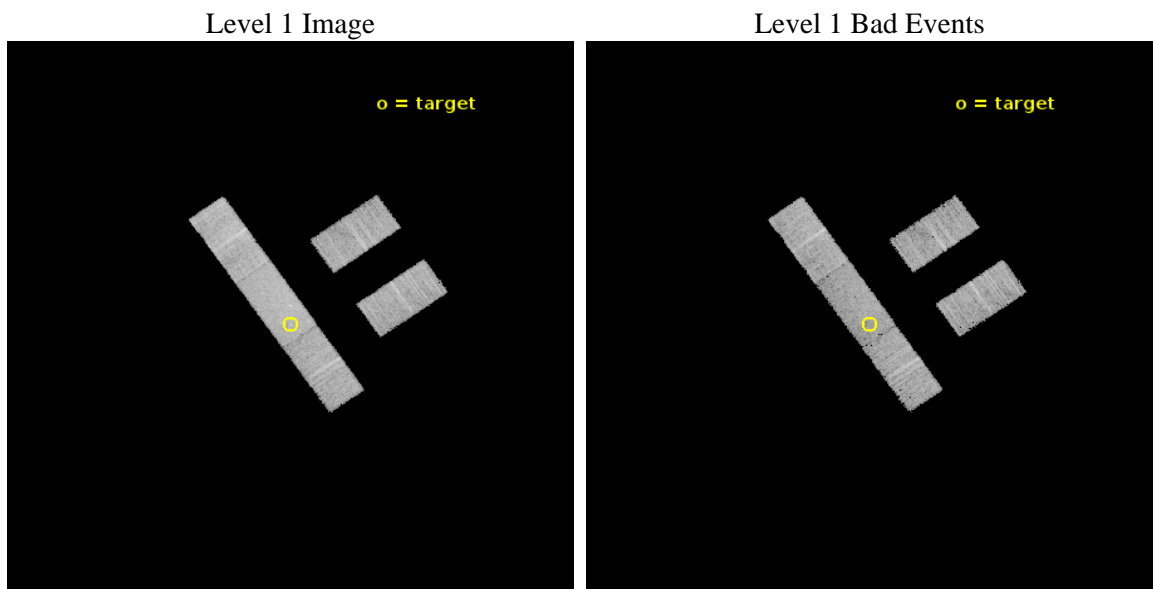
seq_num	702742	Sequence number
obs_id	14505	Observation id
title	ENERGY DEPENDENT X-RAY MICROLENSING AND THE STRUCTURE OF QUASARS	P
observer	Prof. Christopher Kochanek	Principal investigator
object	HE1104-1805	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	166.639583	Observer's specified target RA [deg]
dec_targ	-18.356722	Observer's specified target Dec [deg]
ra_nom	166.64080014724	Nominal RA [deg]
dec_nom	-18.359599515083	Nominal Dec [deg]
roll_nom	234.94829171455	Nominal Roll [deg]
revision	1	Processing version of data
ontime	14062.39990145	Sum of GTIs [s]
livetime	13730.919354216	Livetime [s]
ontime2	14062.39990145	Sum of GTIs [s]
ontime3	14060.658881187	Sum of GTIs [s]
ontime6	14062.39990145	Sum of GTIs [s]
ontime7	14062.39990145	Sum of GTIs [s]
ontime8	14062.39990145	Sum of GTIs [s]
l2events	36452	Number of level 2 events



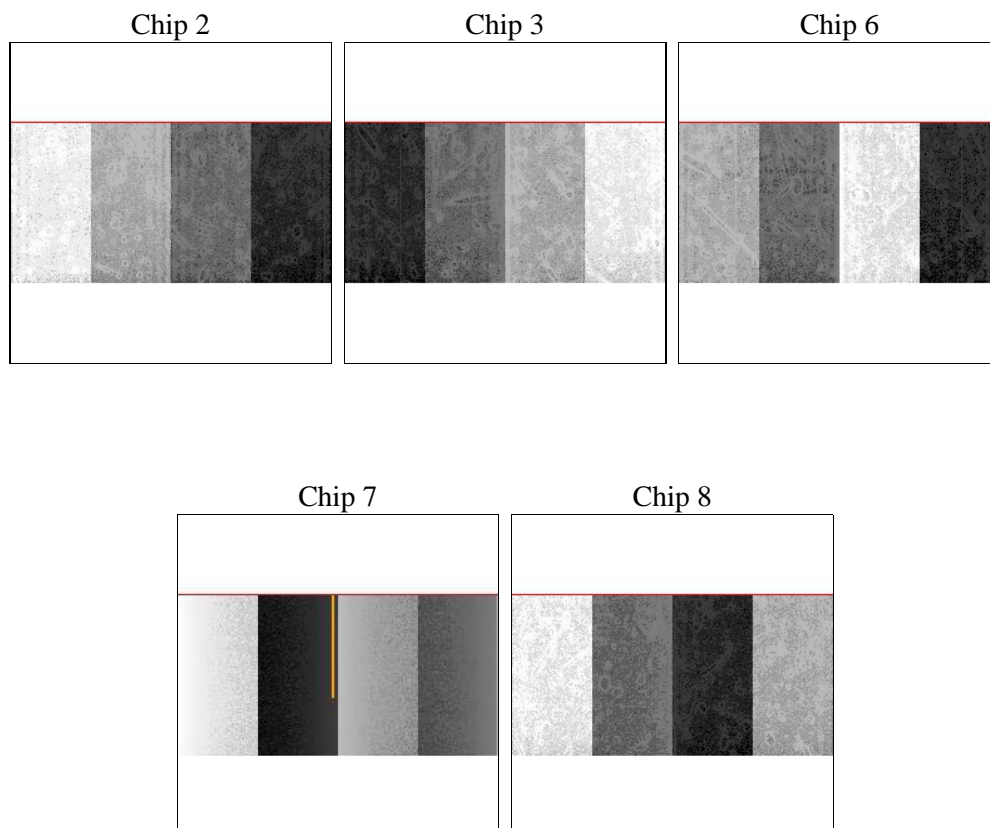
2 OBI

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	10.2.4	Processing system revision	ontime	14062.39990145	Sum of GTIs [s]
caldsver	4.6.2	 	ontime2	14062.39990145	Sum of GTIs [s]
date	2014-07-15T04:17:12	Date and time of file creation	ontime3	14060.658881187	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	14062.39990145	Sum of GTIs [s]
			ontime7	14062.39990145	Sum of GTIs [s]
			ontime8	14062.39990145	Sum of GTIs [s]
			l1events	204841	Number of level 1 events

2.1.4 Events

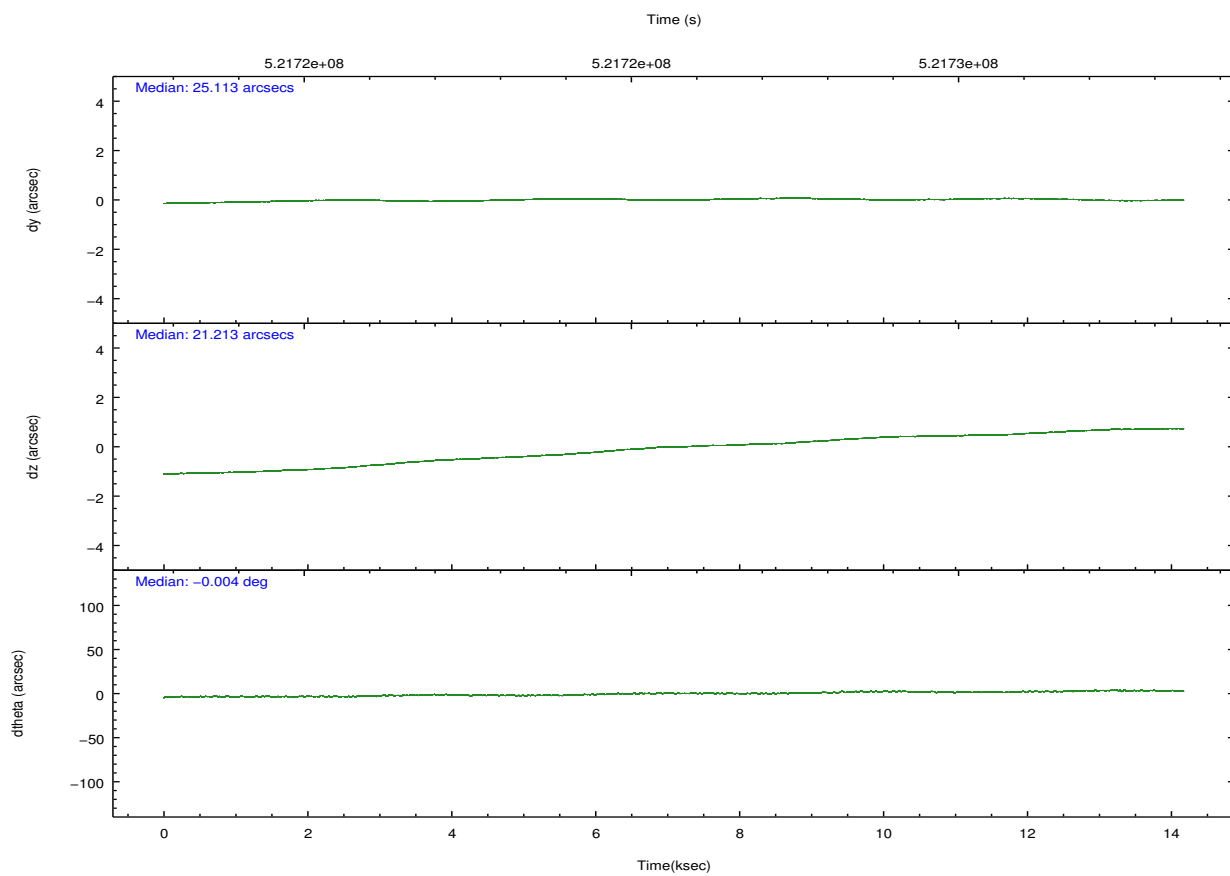
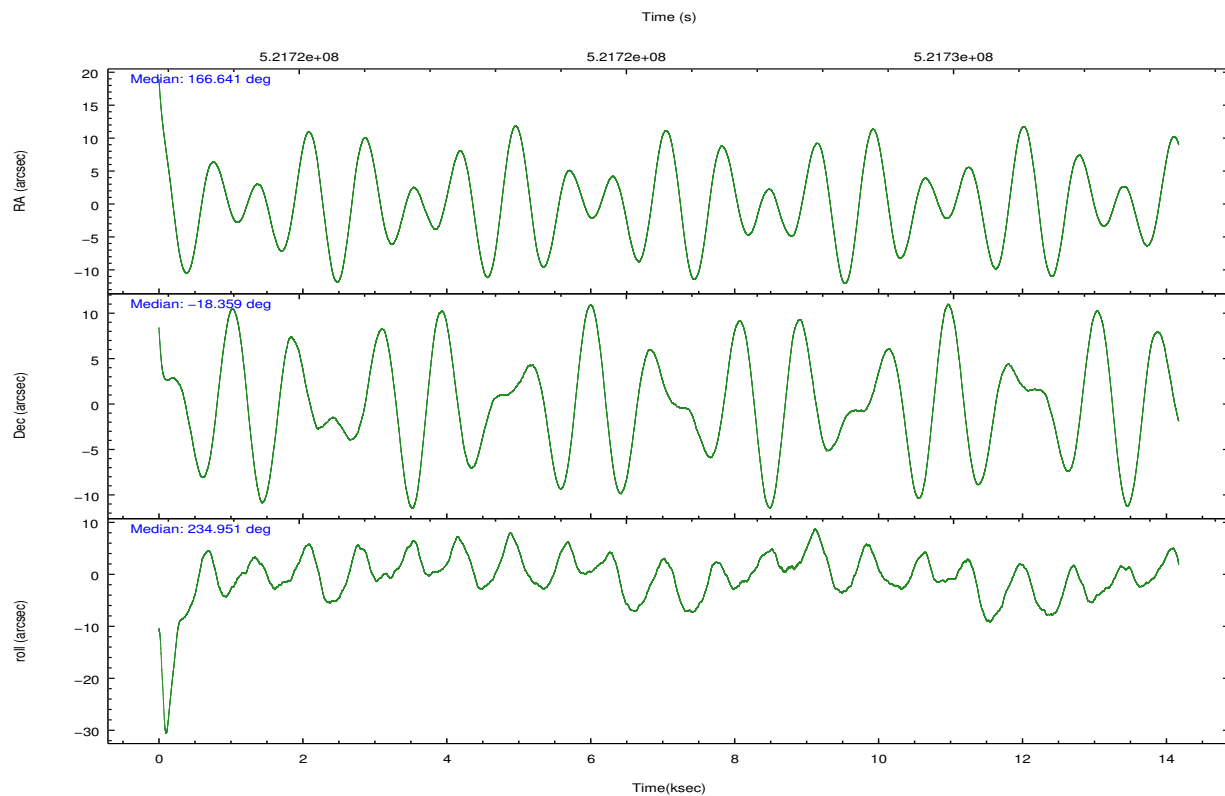
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	35920	33996	36588	48846	49491
rejected events	31850	30076	32059	26734	36518
rejected %	88%	88%	87%	54%	73%

	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	1373	1240	1463	2274	3587
	3%	3%	3%	4%	7%
grade 1 events	13	20	14	67	33
	0%	0%	0%	0%	0%
grade 2 events	1007	864	1018	4719	3100
	2%	2%	2%	9%	6%
grade 3 events	437	485	535	2117	1386
	1%	1%	1%	4%	2%
grade 4 events	496	526	532	2107	1299
	1%	1%	1%	4%	2%
grade 5 events	1478	1866	1854	5011	2592
	4%	5%	5%	10%	5%
grade 6 events	757	808	981	10897	3602
	2%	2%	2%	22%	7%
grade 7 events	30359	28187	30191	21654	33892
	84%	82%	82%	44%	68%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	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	166.642948	166.6408001472437	CCD I2 on	O4	Y
[deg] Pointing Dec	-18.332248	-18.35959951508253	CCD I3 on	O3	Y
[deg] Pointing Roll	234.792327	234.9482917145513	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O1	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	O2	Y
[s] Observation start time (MET)	521718730.184000	521717675.15784	CCD S5 on	N	N
Observation start date	2014-07-14T09:51:03	2014-07-14T09:34:35	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	521732730.184000	521733437.60871	On-chip summing requested	N	N
Observation end date	2014-07-14T13:44:23	2014-07-14T13:57:17	Subarray requested	CUSTOM	1/2
Read mode	TIMED	TIMED	Subarray start row	257	257
			Subarray row count	512	512
			Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	1.7

2.3 Aspect

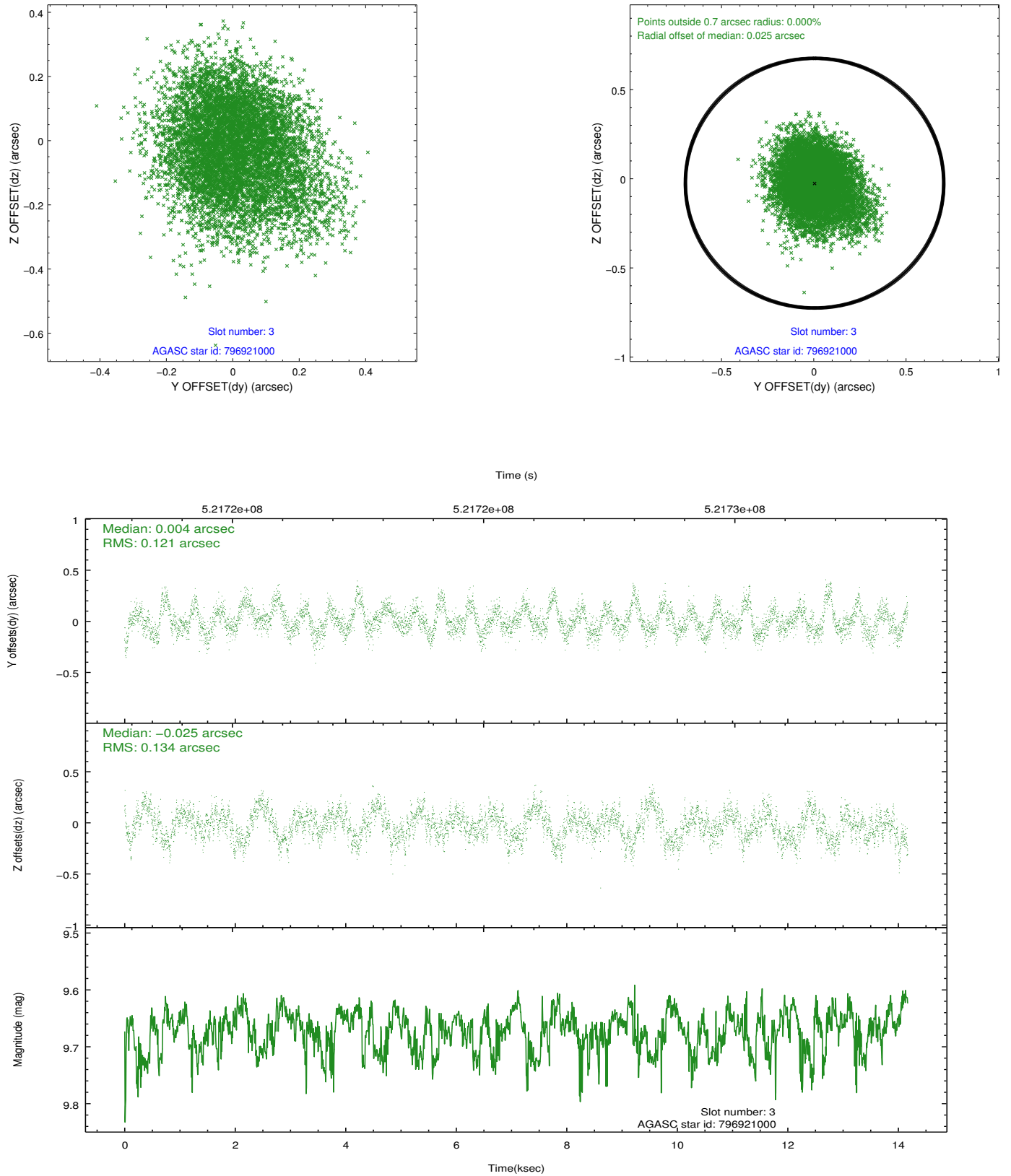


Slot Statistics

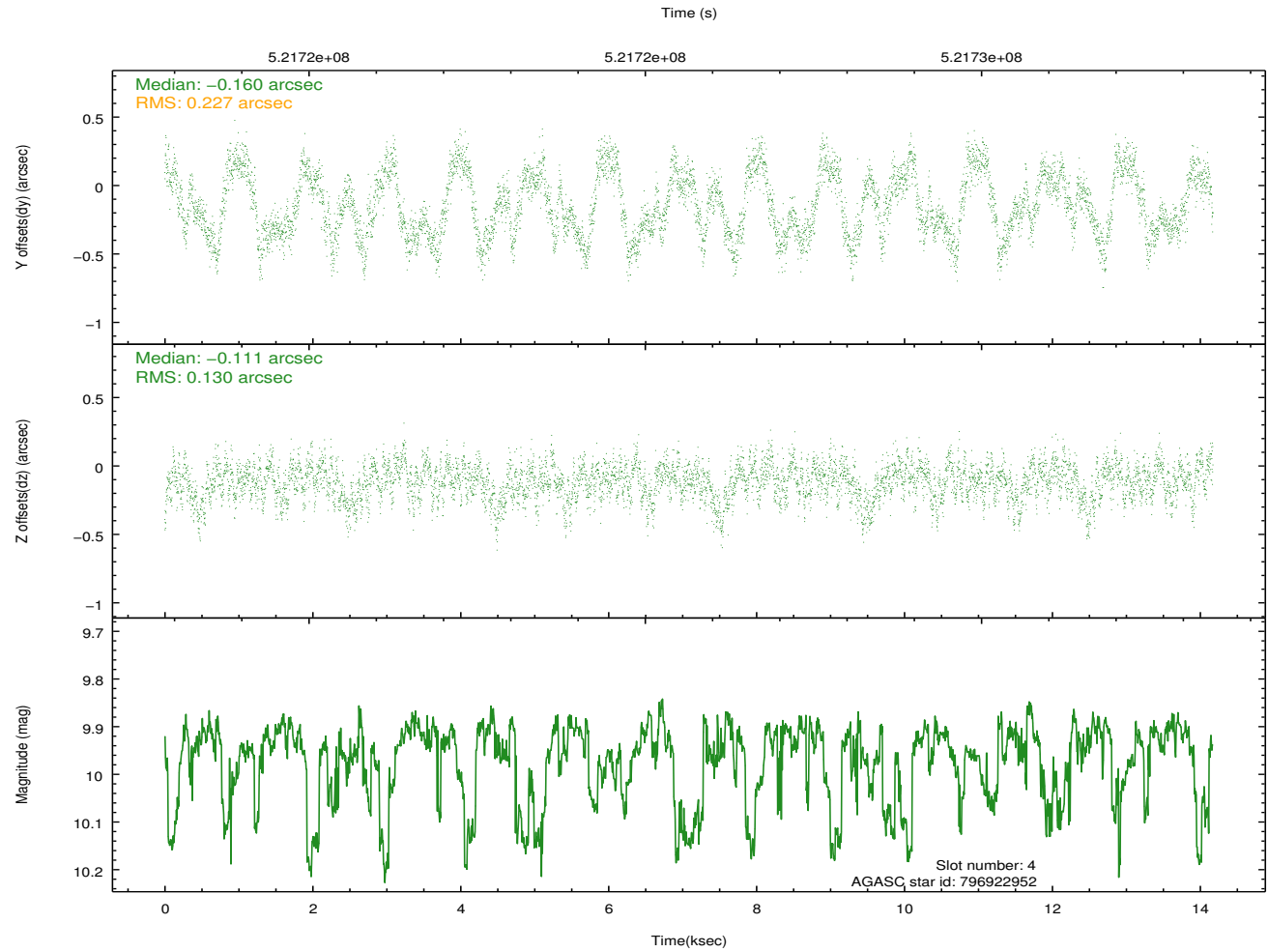
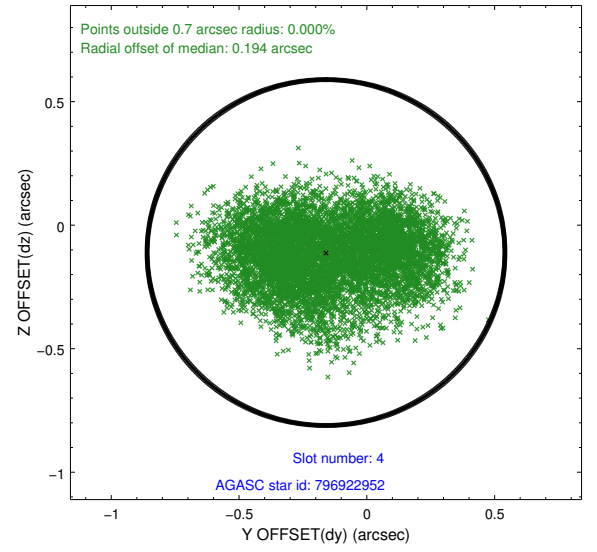
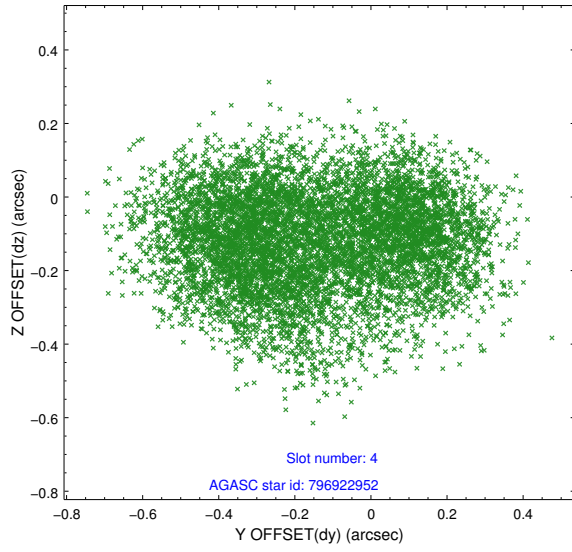
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.97	3457	-0.187	-0.025	0.019	0.030	0.000000	0.000000	-778.54	-1742.67
1	FID	ACIS-S-4	7.06	3457	0.365	0.098	0.010	0.020	0.000000	0.000000	2135.14	165.59
2	FID	ACIS-S-5	7.09	3457	-0.210	-0.064	0.017	0.028	0.000000	0.000000	-1830.99	159.48
3	GUIDE	796921000	9.67	6909	0.004	-0.025	0.192	0.307	166.658084	-18.401963	175.80	187.06
4	GUIDE	796922952	9.95	6903	-0.160	-0.111	0.289	0.426	166.412795	-18.656501	1406.88	32.70
5	GUIDE	796923960	9.14	6912	-0.083	0.075	0.145	0.222	167.114946	-18.113690	-1571.50	867.09
6	GUIDE	796928784	8.40	6913	0.267	0.010	0.118	0.184	166.853792	-17.800971	-1978.53	-511.58
7	GUIDE	796928880	9.86	6903	-0.068	0.055	0.228	0.377	166.621408	-18.801010	1423.93	914.49

2.4 Star Slots

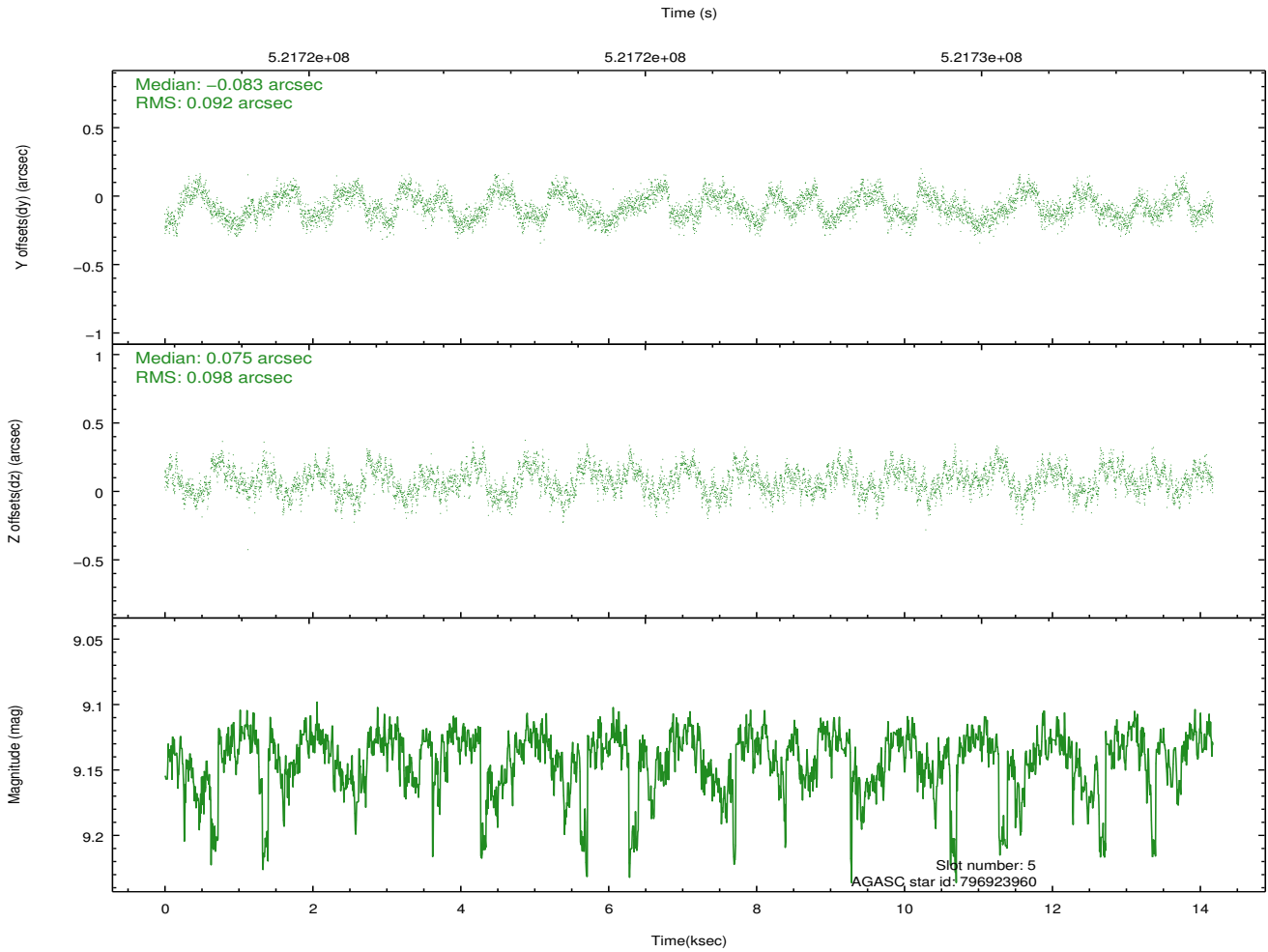
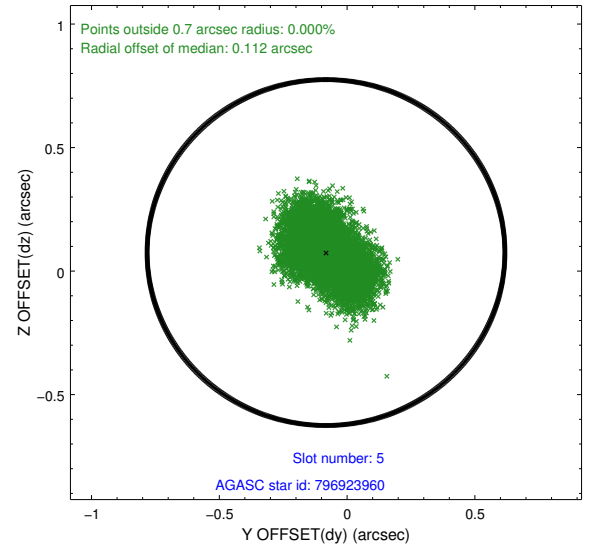
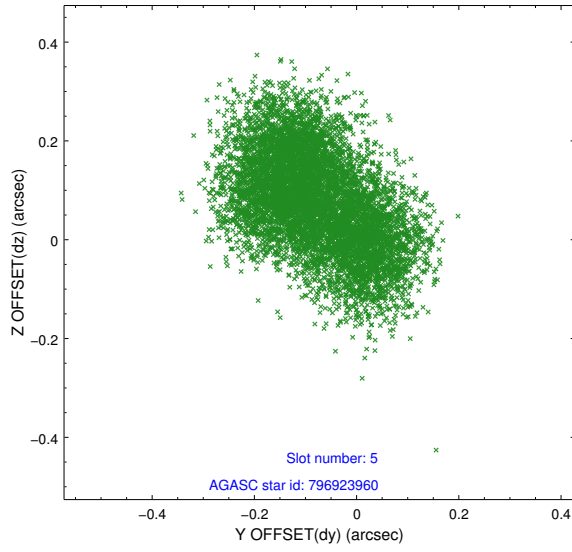
2.4.1 Slot 3



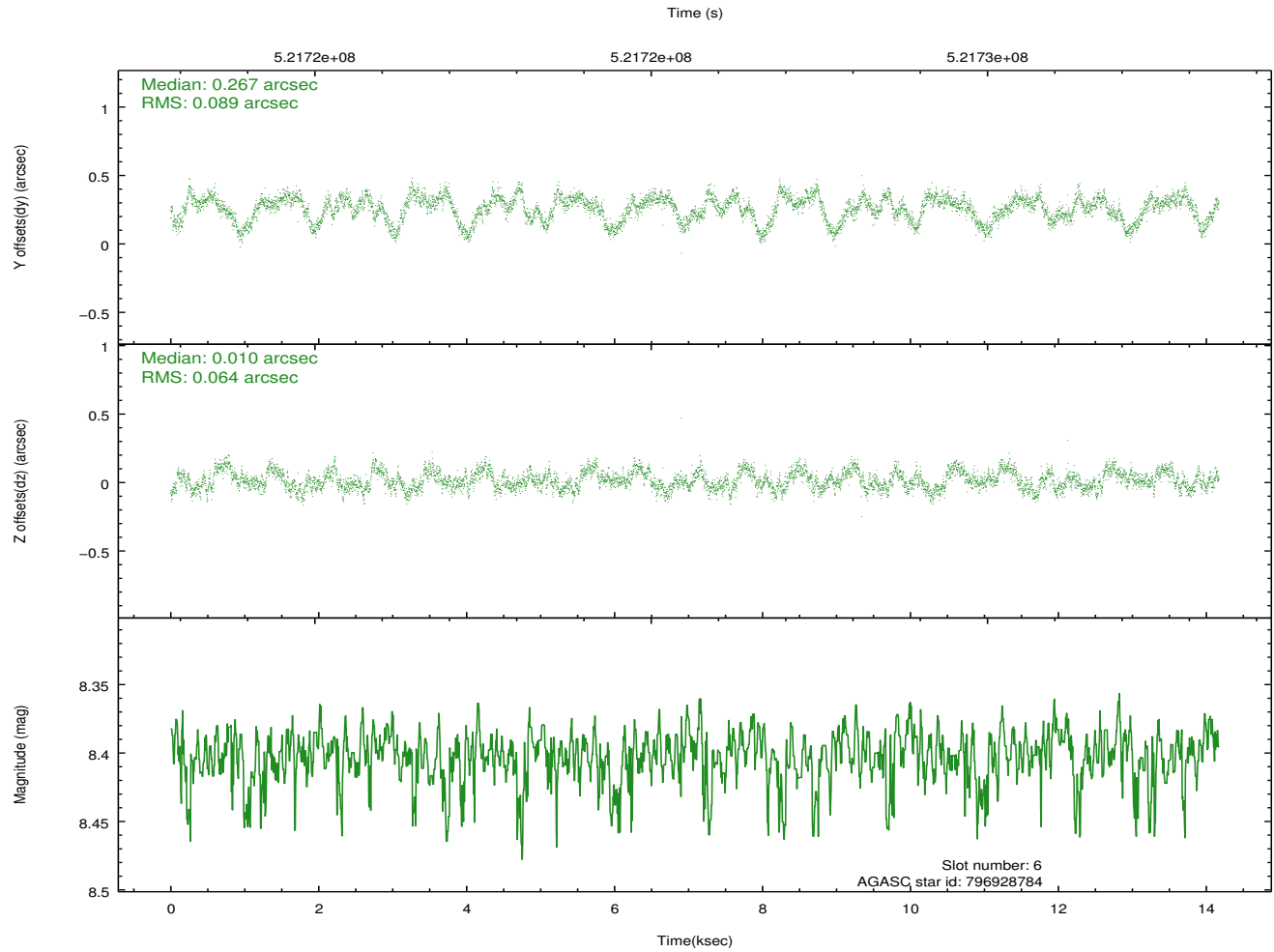
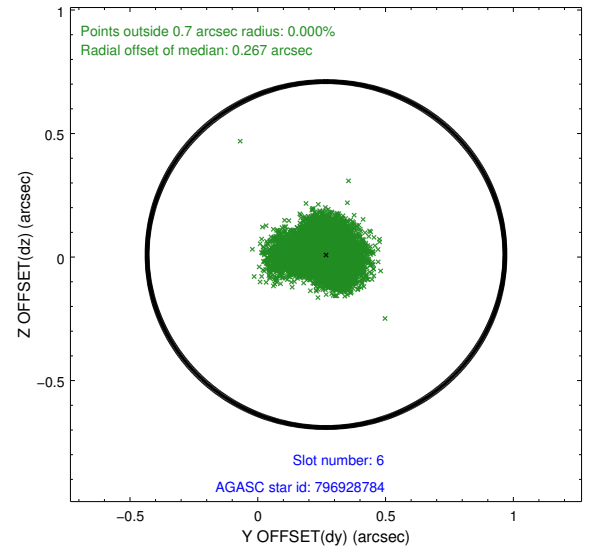
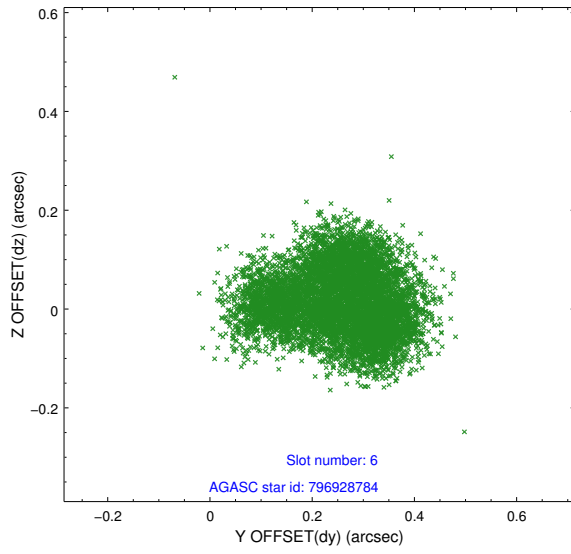
2.4.2 Slot 4



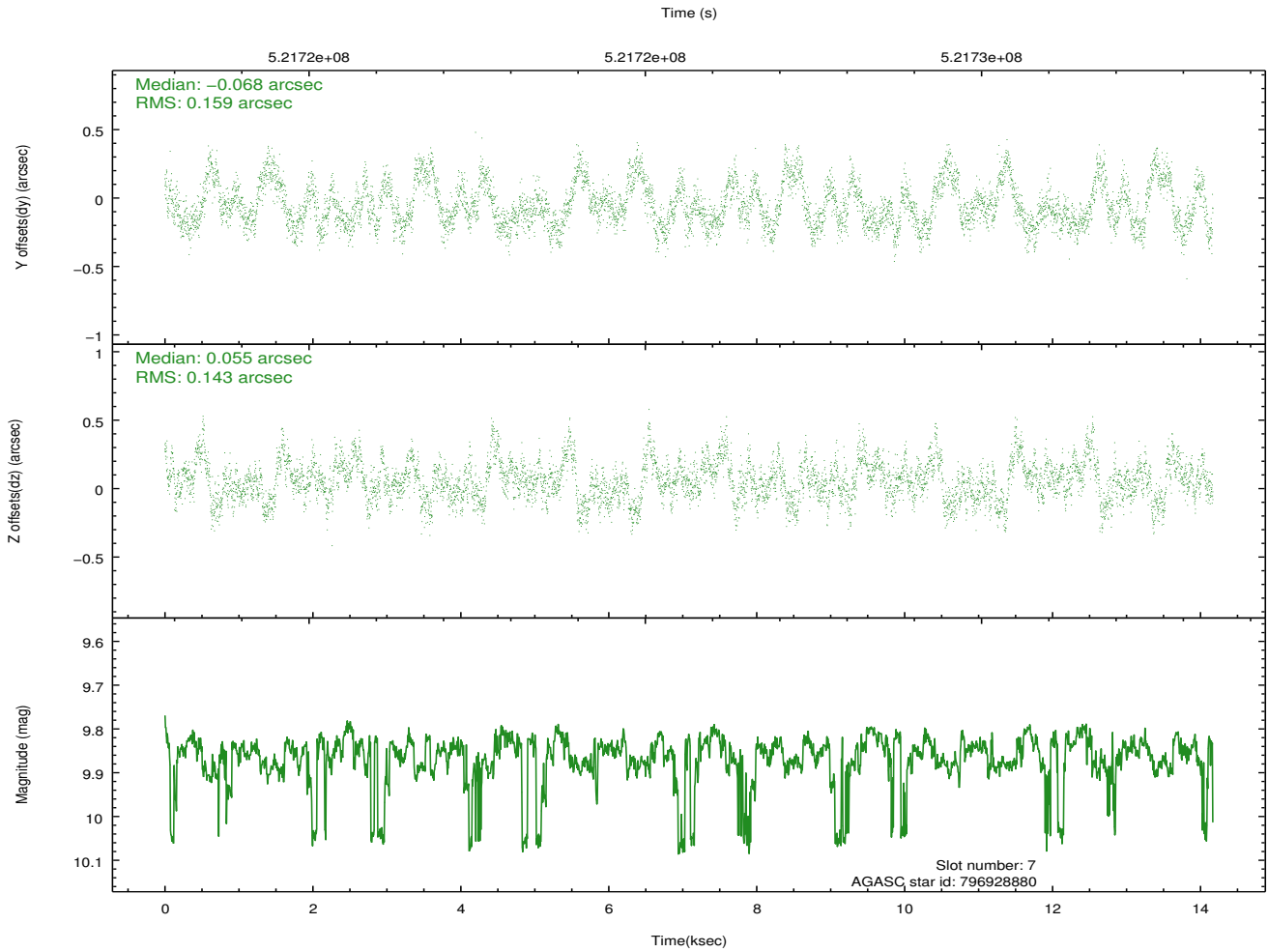
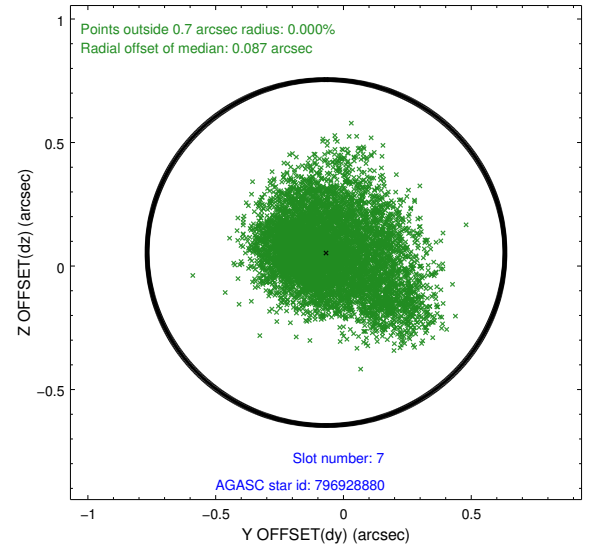
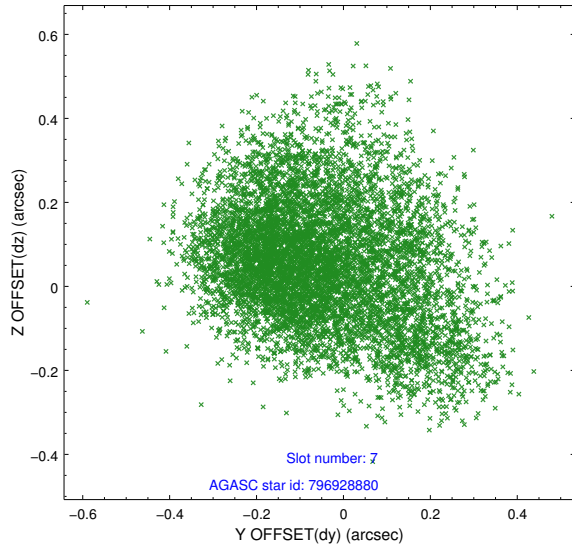
2.4.3 Slot 5



2.4.4 Slot 6

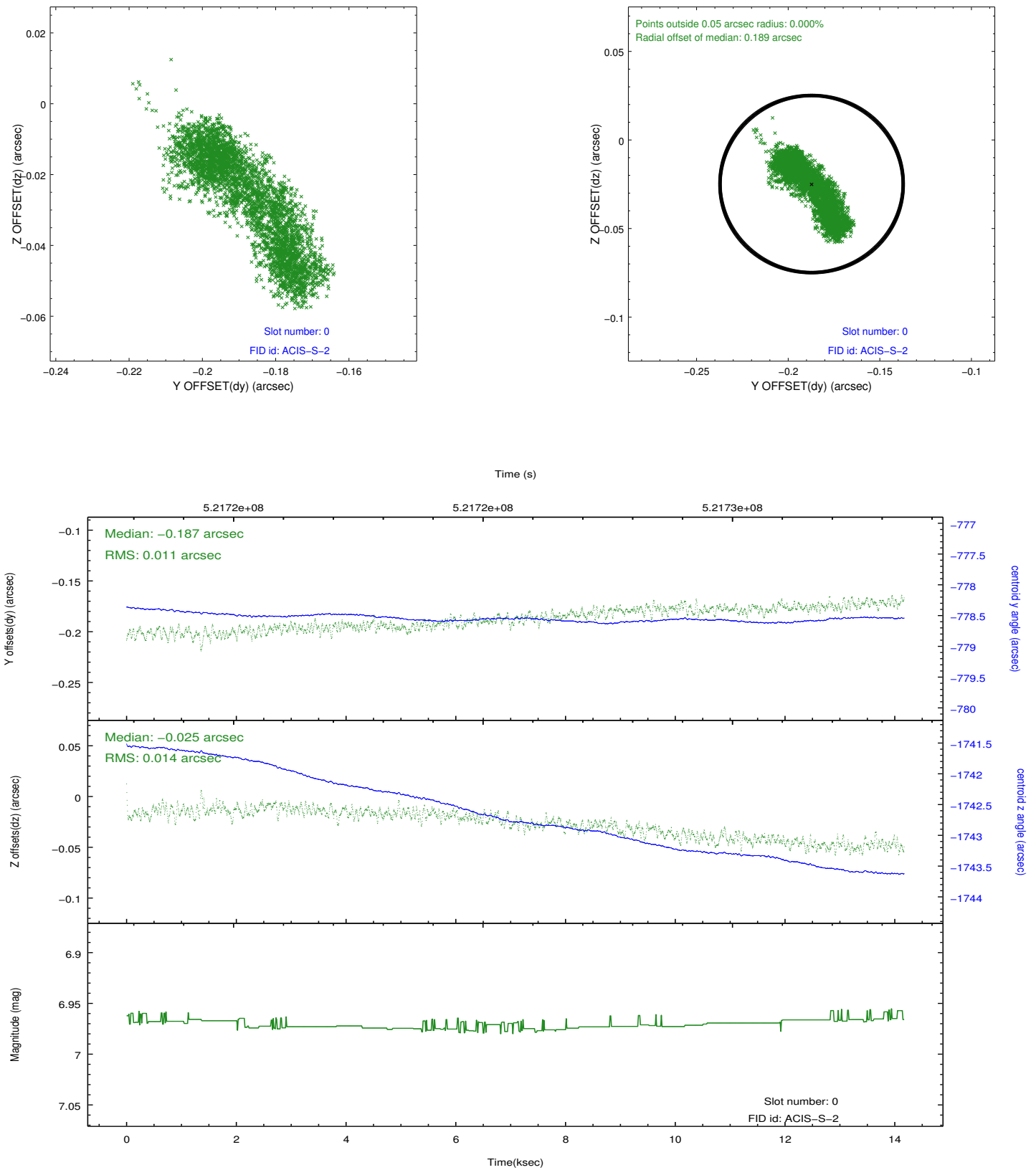


2.4.5 Slot 7

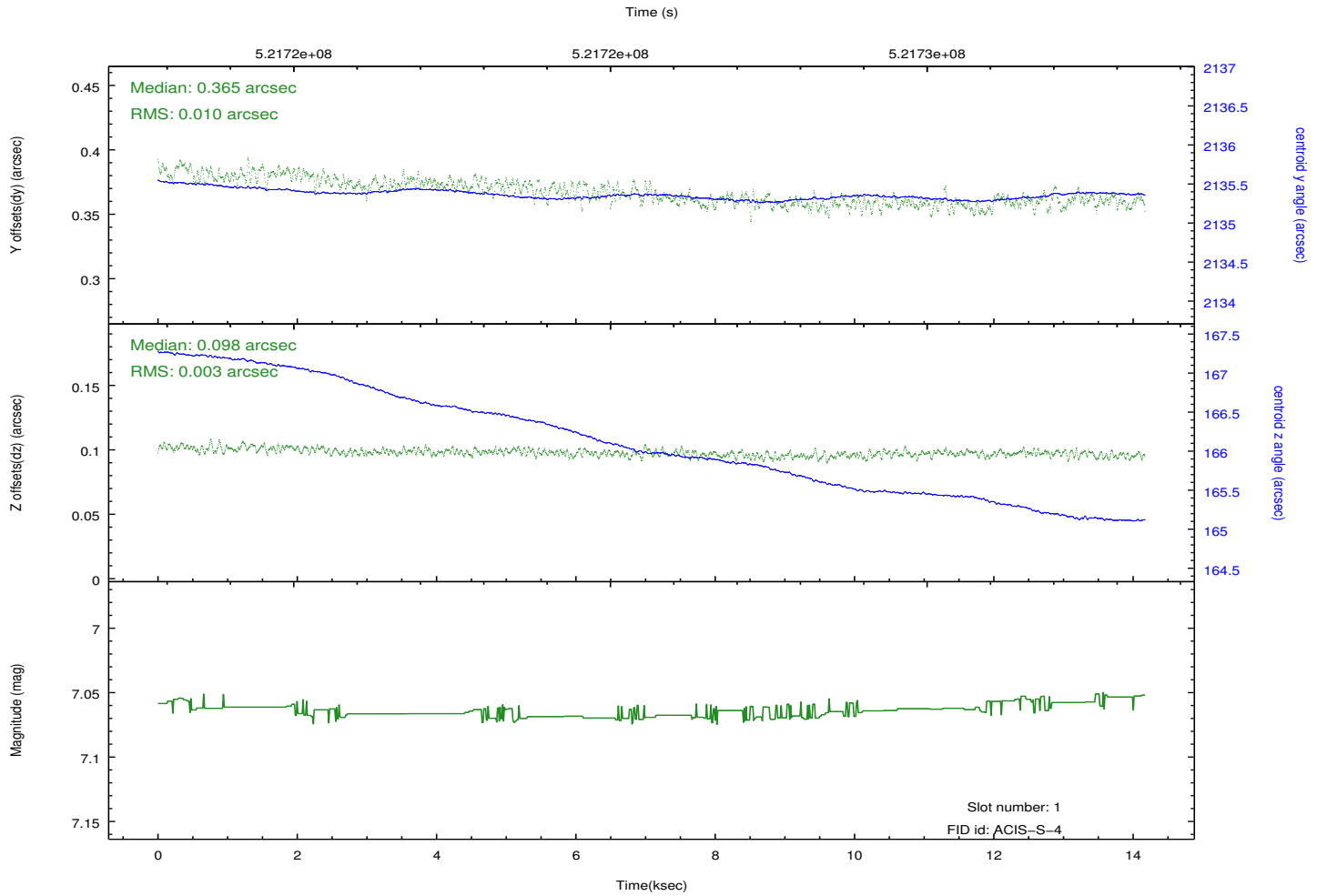
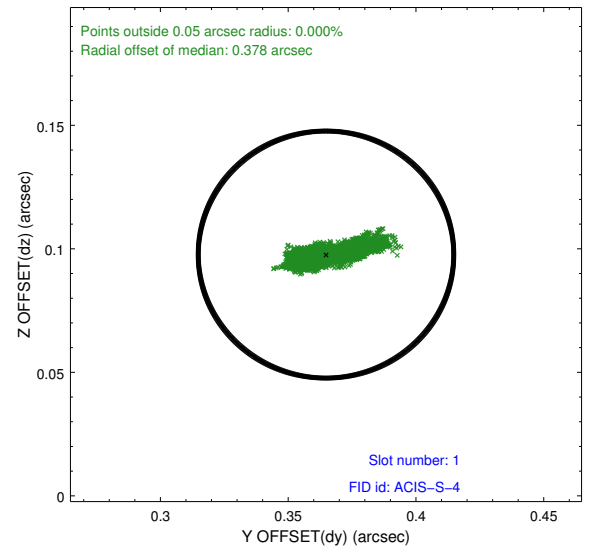
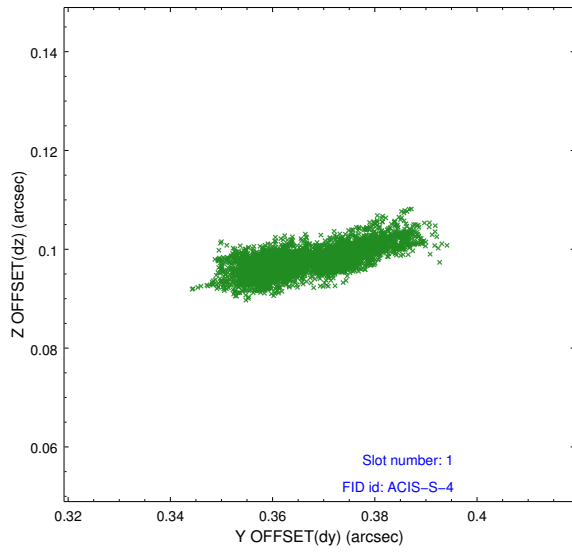


2.5 FID Slots

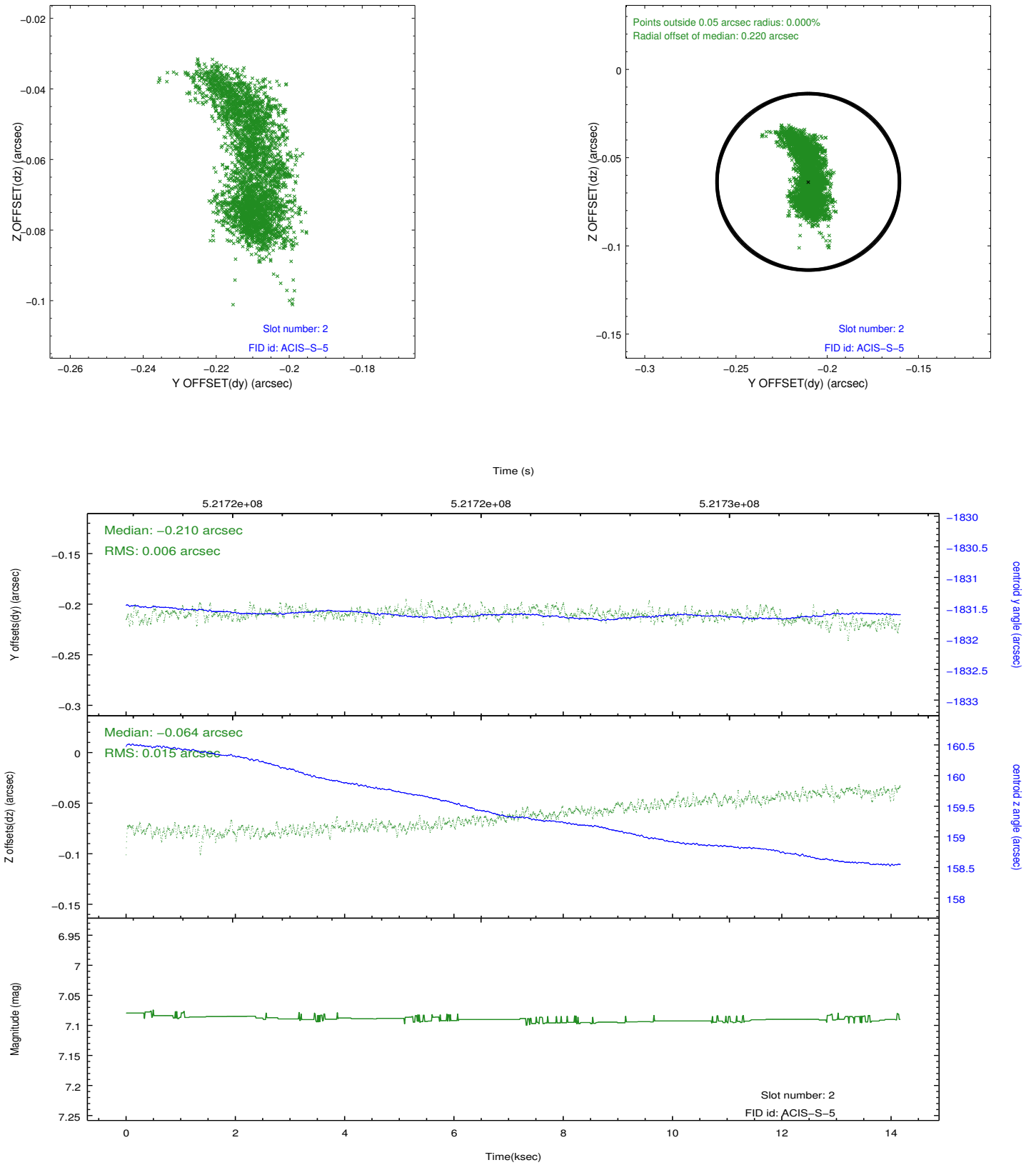
2.5.1 Slot 0



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)	2014.07.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	14.06239990145

A.2 Comments