

V&V Reference Report

L2 ASCDS Version : 10.2.4

Observation 17413 - L2 Version 1
Chandra X-Ray Center

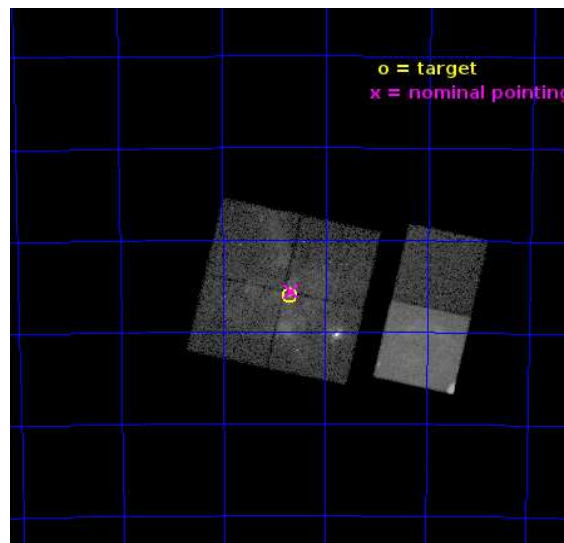
L2 Processing Date : Sep 9 2014

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1 Front

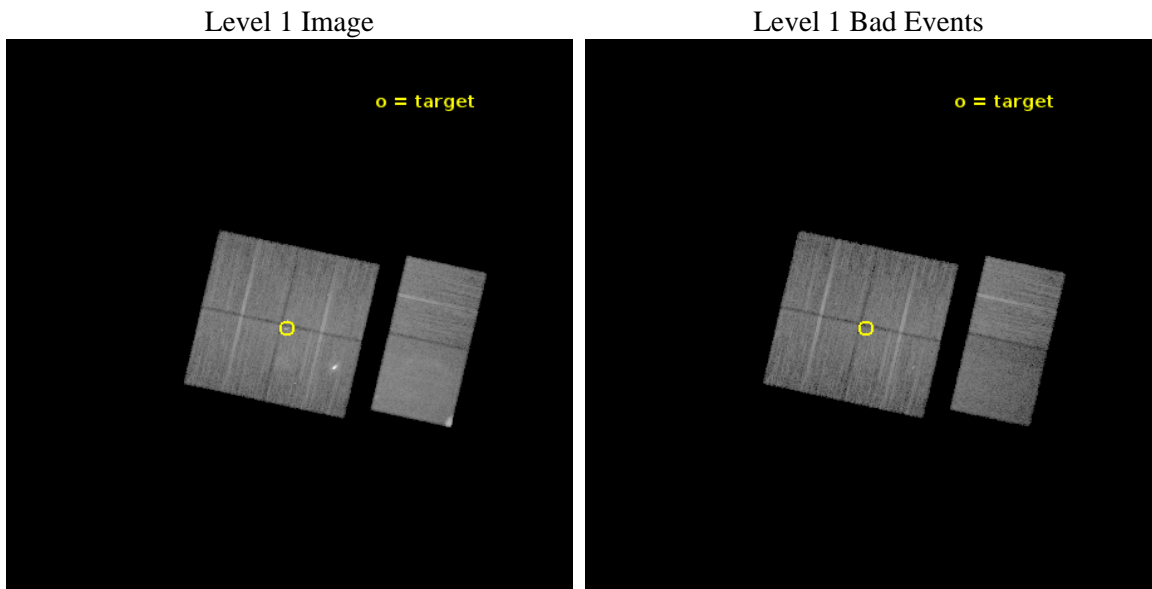
seq_num	901116	Sequence number
obs_id	17413	Observation id
title	The Tarantula -- Revealed by X-rays (T-ReX): A Definitive Chandra Investigation of 30 Doradus	Proposal title
observer	Dr. Leisa Townsley	Principal investigator
object	30 Doradus	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	84.676667	Observer's specified target RA [deg]
dec_targ	-69.100806	Observer's specified target Dec [deg]
ra_nom	84.665145375983	Nominal RA [deg]
dec_nom	-69.093703883858	Nominal Dec [deg]
roll_nom	102.69792688515	Nominal Roll [deg]
revision	1	Processing version of data
ontime	24966.36995542	Sum of GTIs [s]
livetime	24650.230746102	Livetime [s]
ontime0	24963.005835235	Sum of GTIs [s]
ontime1	24966.287875414	Sum of GTIs [s]
ontime2	24966.328915417	Sum of GTIs [s]
ontime3	24966.36995542	Sum of GTIs [s]
ontime6	24966.399907053	Sum of GTIs [s]
ontime7	24966.399907053	Sum of GTIs [s]
l2events	179105	Number of level 2 events



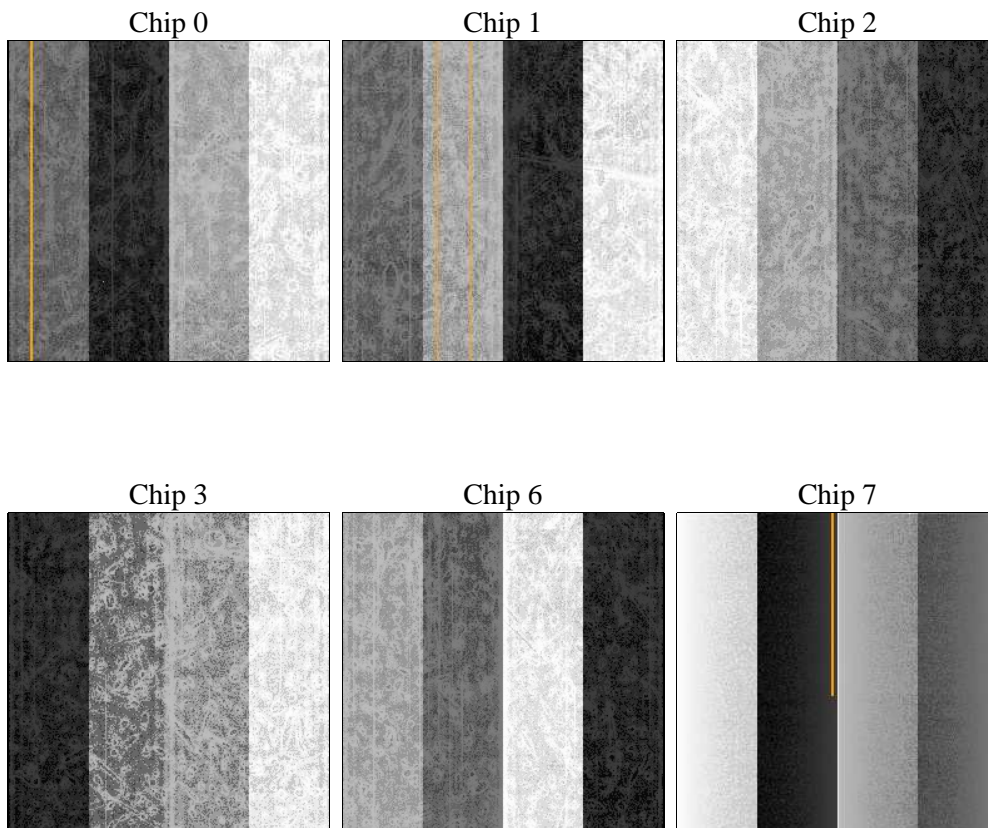
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	25000.000000	[s] Scheduled observation exposure time
ascdsver	10.2.4	Processing system revision	ontime	24966.36995542	Sum of GTIs [s]
caldbver	4.6.3	 	ontime0	24963.005835235	Sum of GTIs [s]
date	2014-09-09T11:05:14	Date and time of file creation	ontime1	24966.287875414	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	24966.328915417	Sum of GTIs [s]
			ontime3	24966.36995542	Sum of GTIs [s]
			ontime6	24966.399907053	Sum of GTIs [s]
			ontime7	24966.399907053	Sum of GTIs [s]
			l1events	773615	Number of level 1 events

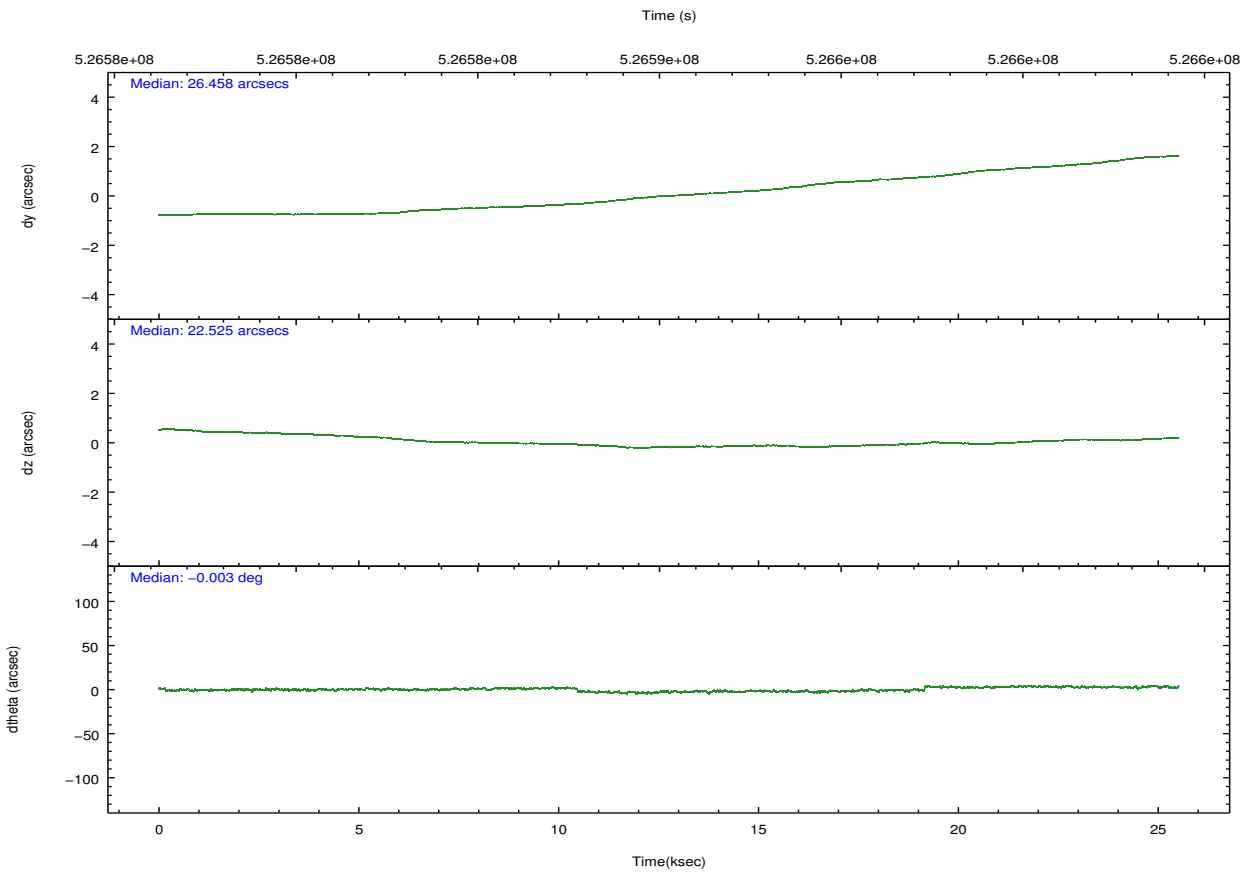
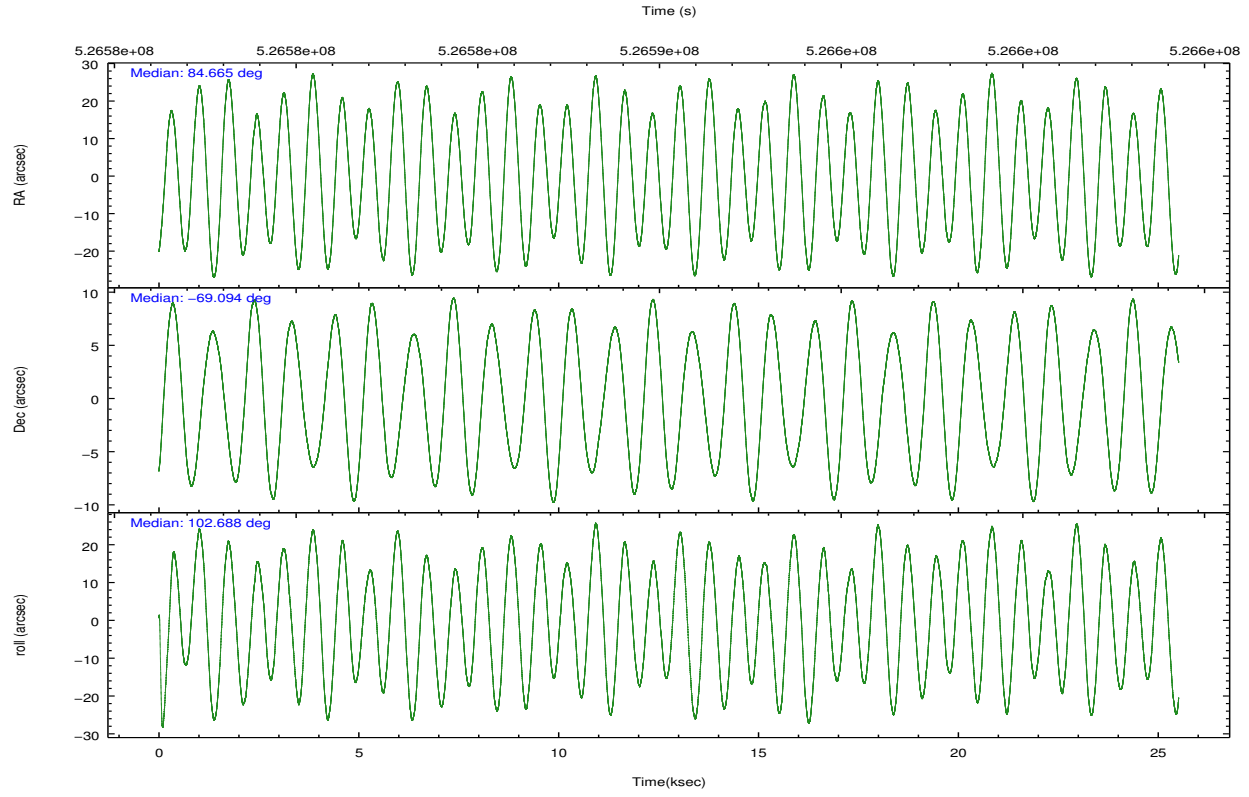
2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	112162	113570	127685	141581	127205	151412	grade 0 events	10075	9748	12347	25888	6650	10606
rejected events	92219	93664	105386	103093	110861	70988		8%	8%	9%	18%	5%	7%
rejected %	82%	82%	82%	72%	87%	46%	grade 1 events	77	77	94	204	77	207
								0%	0%	0%	0%	0%	0%
							grade 2 events	4221	3925	4360	5378	3730	18756
								3%	3%	3%	3%	2%	12%
							grade 3 events	1527	1531	1411	2047	1414	7430
								1%	1%	1%	1%	1%	4%
							grade 4 events	1451	1626	1592	2065	1458	7426
								1%	1%	1%	1%	1%	4%
							grade 5 events	4389	4715	4097	5060	5128	14184
								3%	4%	3%	3%	4%	9%
							grade 6 events	2675	3081	2594	3116	3096	36239
								2%	2%	2%	2%	2%	23%
							grade 7 events	87747	88867	101190	97823	105652	56564
								78%	78%	79%	69%	83%	37%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	84.717871	84.66514537598312	CCD I2 on	Y	Y
[deg] Pointing Dec	-69.113945	-69.09370388385761	CCD I3 on	Y	Y
[deg] Pointing Roll	102.538500	102.6979268851487	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O1	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O2	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	526578016.184000	526576888.31478	CCD S5 on	N	N
Observation start date	2014-09-08T15:39:09	2014-09-08T15:21:28	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	526603016.184000	526604131.2788	On-chip summing requested	N	N
Observation end date	2014-09-08T22:35:49	2014-09-08T22:55:31	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect

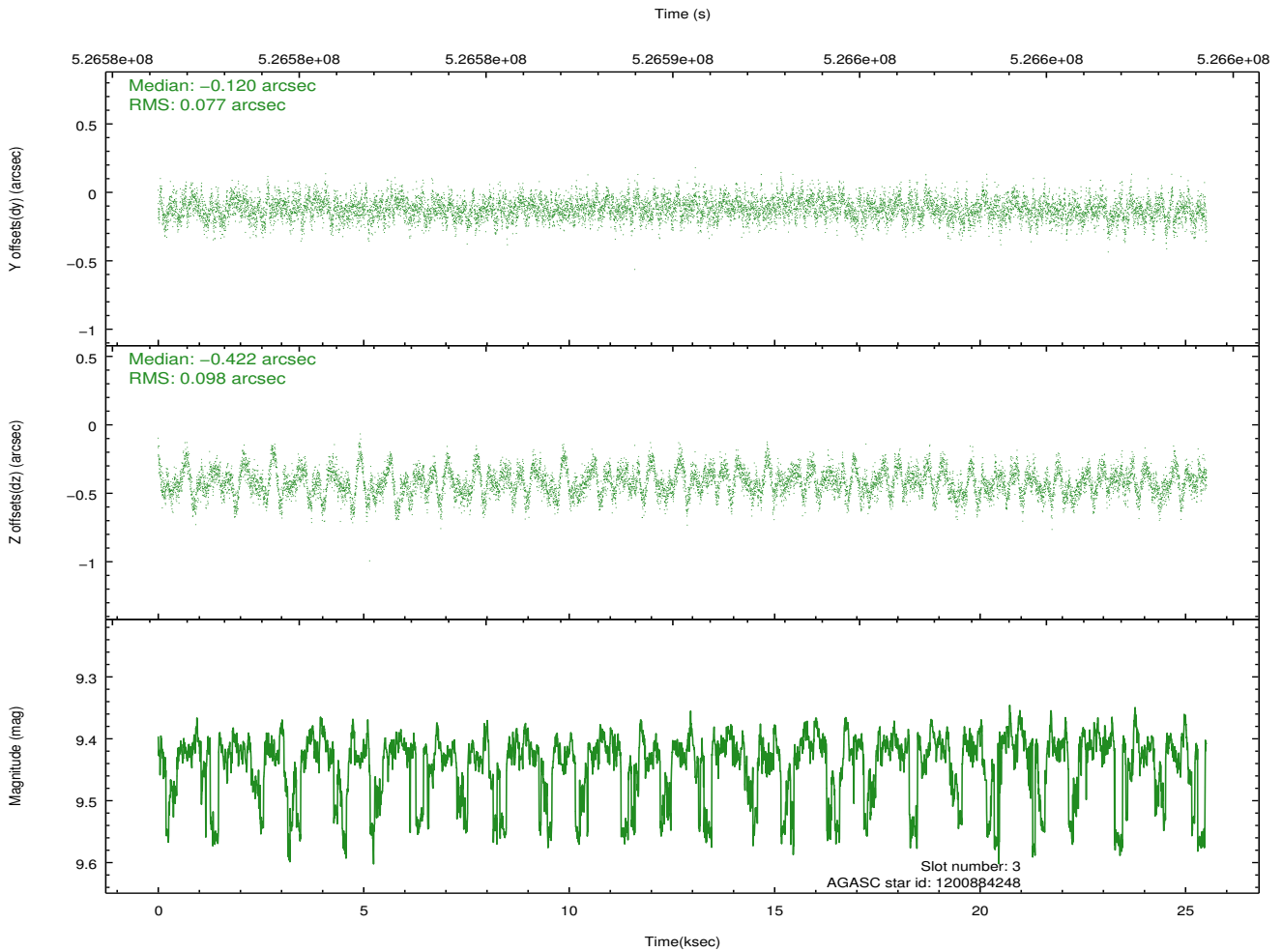
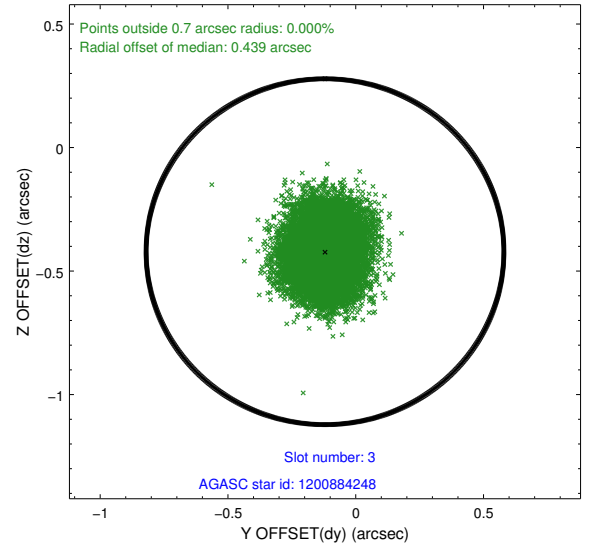
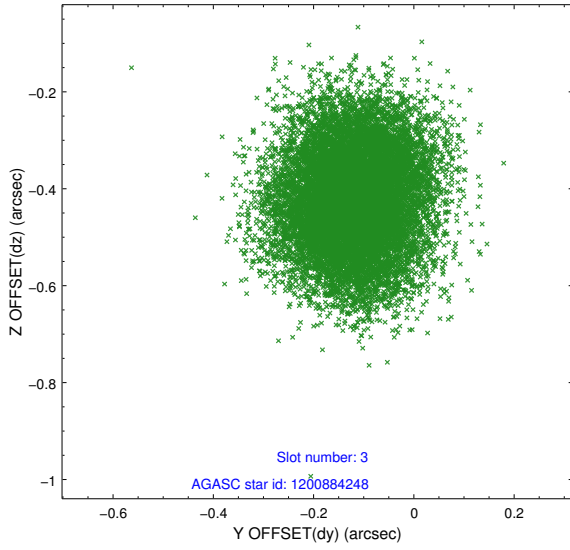


Slot Statistics

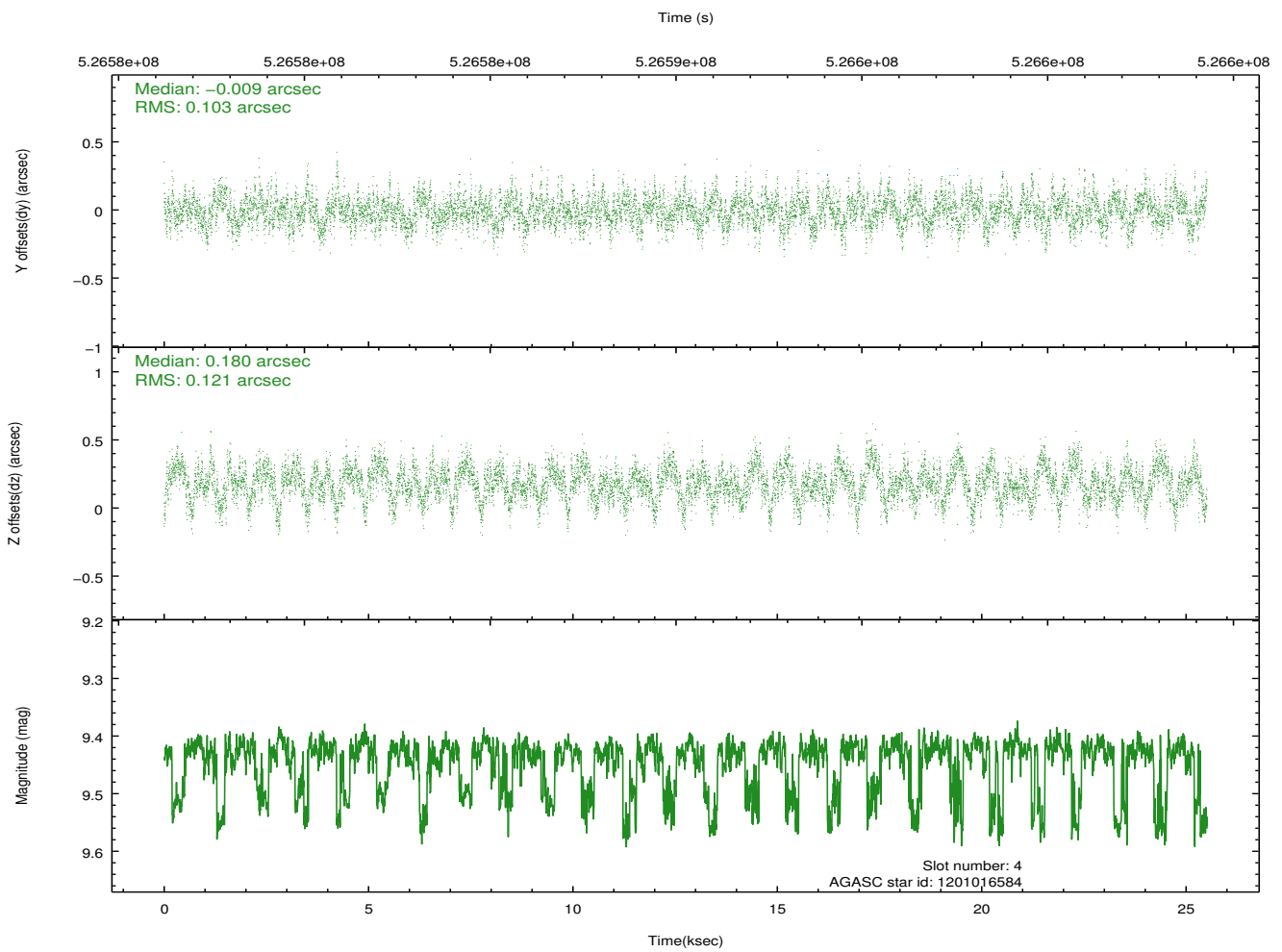
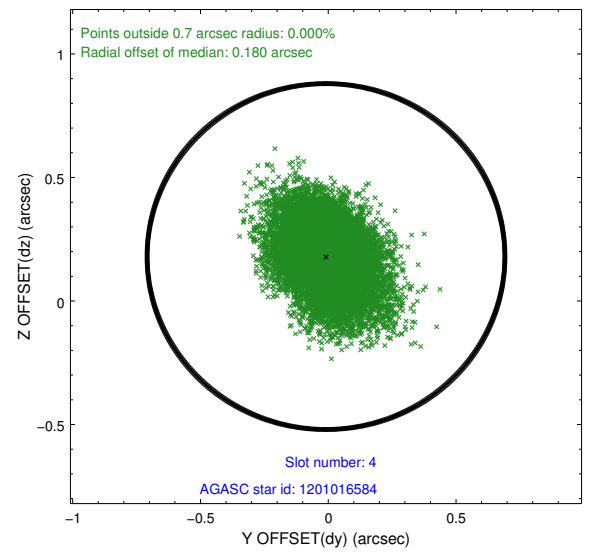
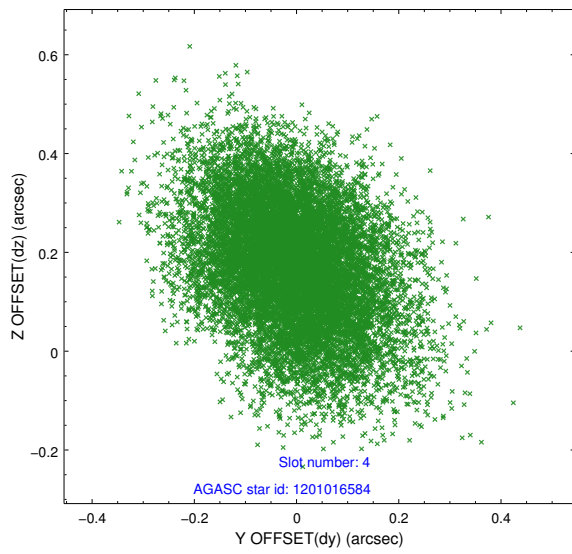
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	6.98	6223	-0.173	-0.080	0.028	0.039	0.000000	0.000000	-781.78	-852.83
1	FID	ACIS-I-4	7.05	6222	0.347	0.113	0.036	0.056	0.000000	0.000000	2132.73	1053.51
2	FID	ACIS-I-5	7.06	6223	-0.282	0.038	0.021	0.046	0.000000	0.000000	-1835.60	1051.37
3	GUIDE	1200884248	9.43	12437	-0.120	-0.422	0.134	0.214	83.880915	-68.565170	2160.47	647.31
4	GUIDE	1201016584	9.43	12429	-0.009	0.180	0.168	0.276	85.677603	-68.415933	2168.13	-1783.25
5	GUIDE	1201018312	9.58	12439	0.373	0.190	0.202	0.303	86.298231	-69.115627	-470.47	-1972.38
6	GUIDE	1201018384	9.05	12441	-0.095	0.093	0.113	0.188	85.801362	-68.593260	1508.95	-1794.12
7	GUIDE	1201020040	8.55	12442	-0.145	-0.035	0.173	0.246	85.379163	-68.879396	633.93	-1019.50

2.4 Star Slots

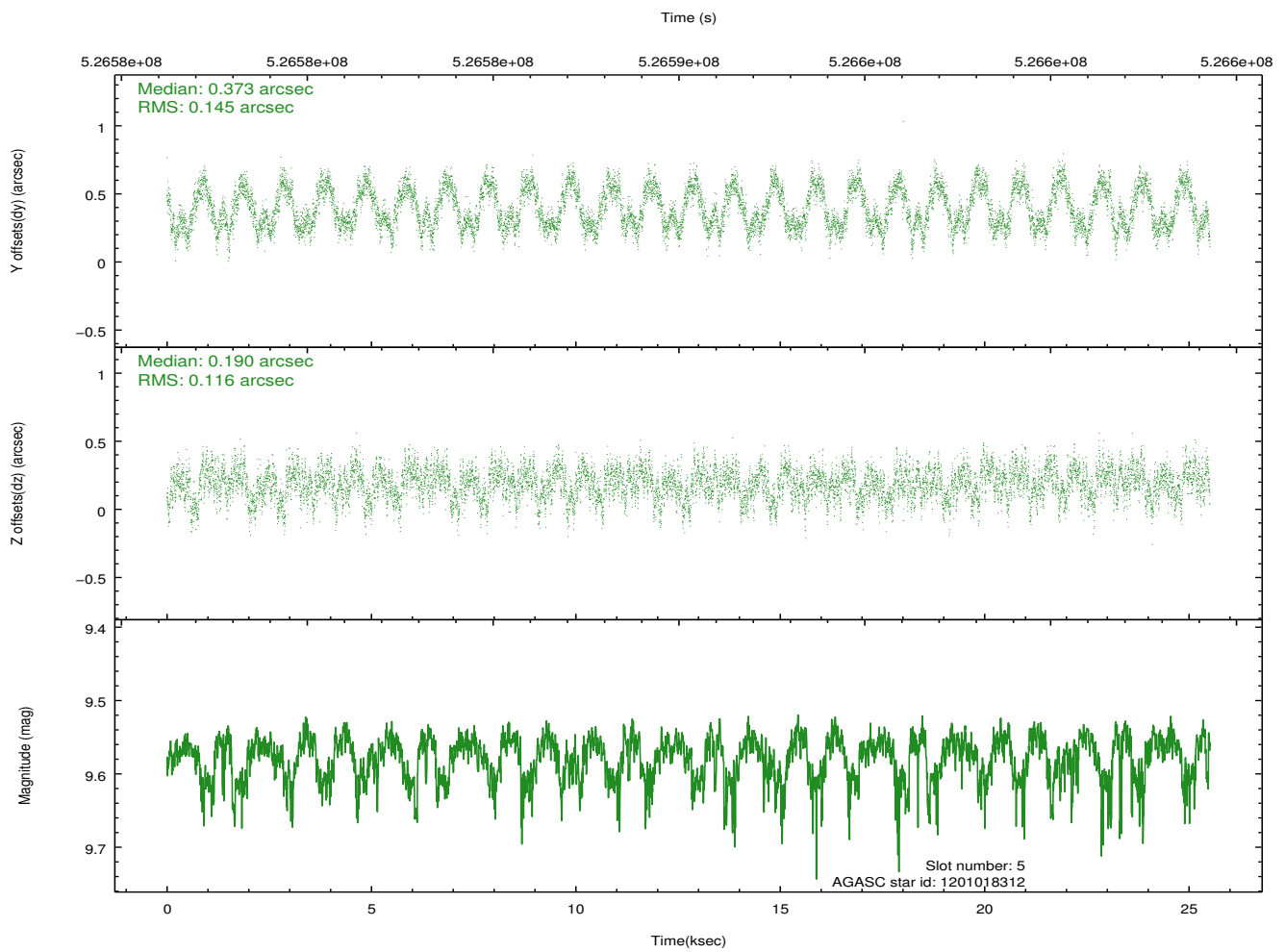
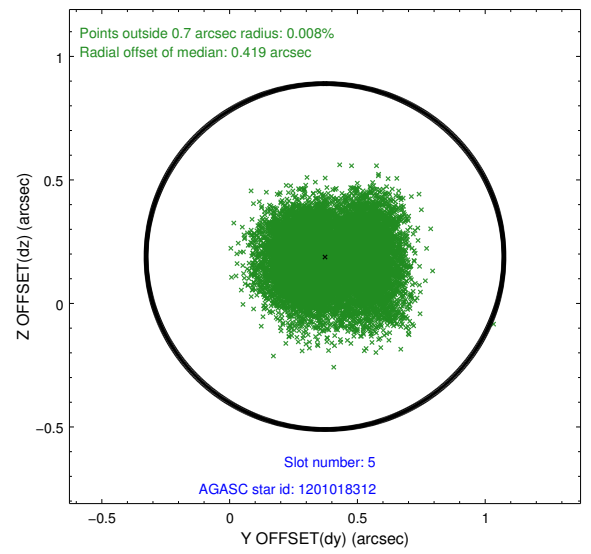
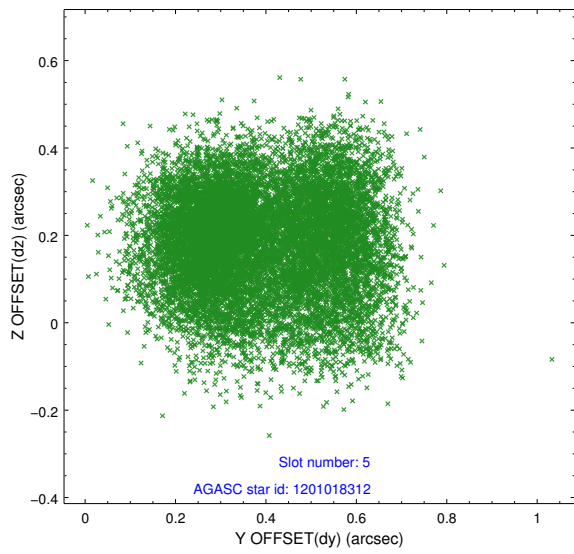
2.4.1 Slot 3



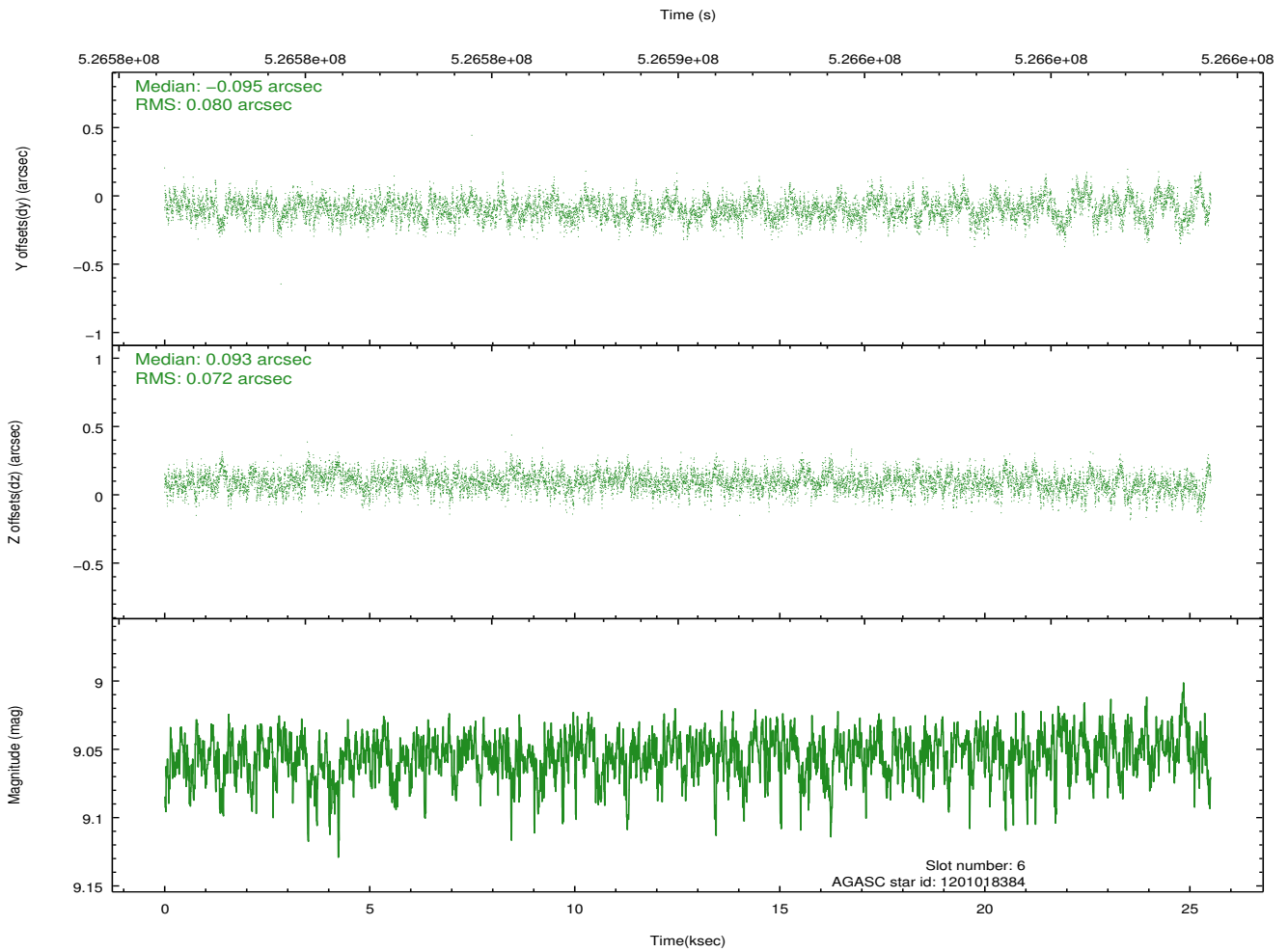
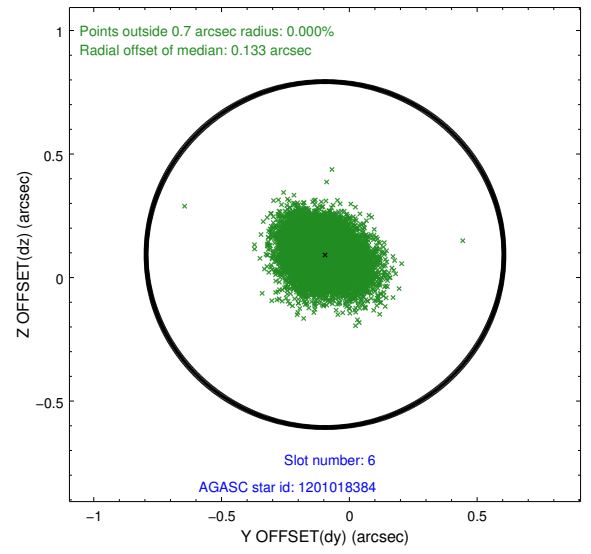
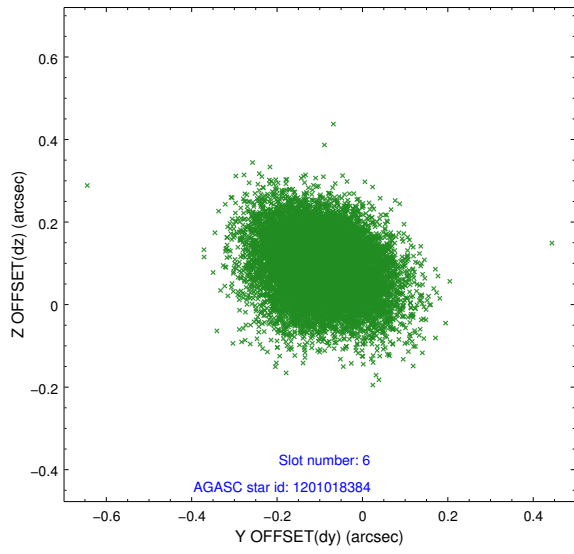
2.4.2 Slot 4



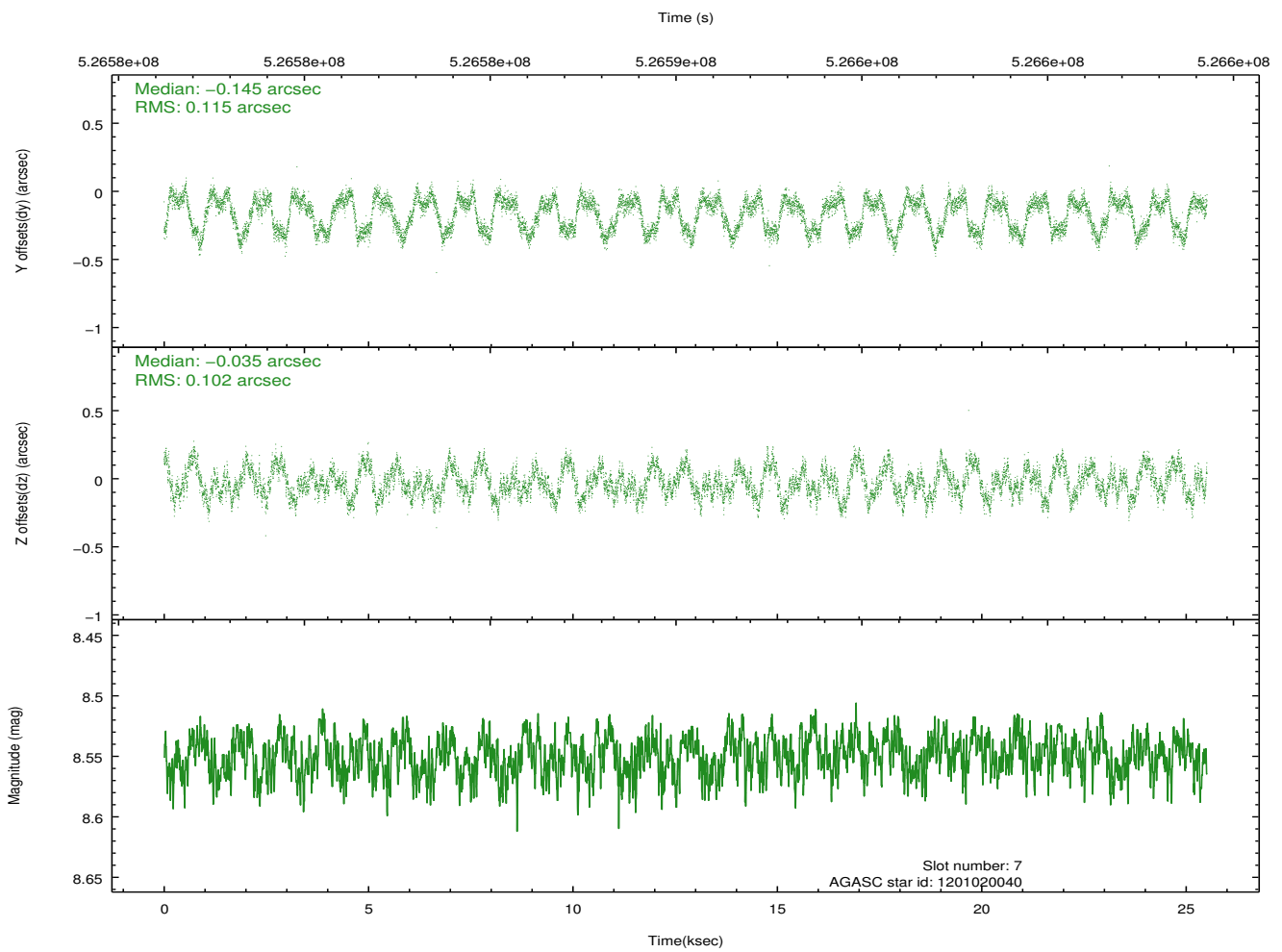
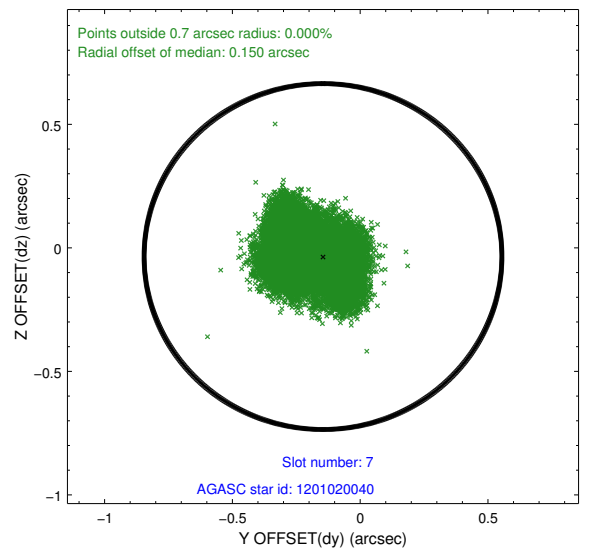
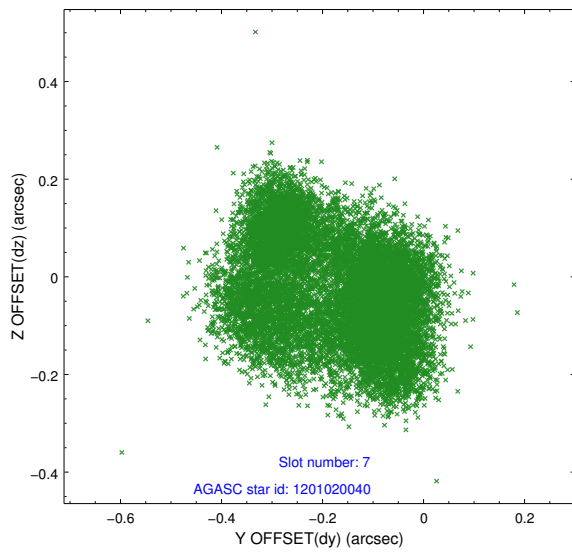
2.4.3 Slot 5



2.4.4 Slot 6

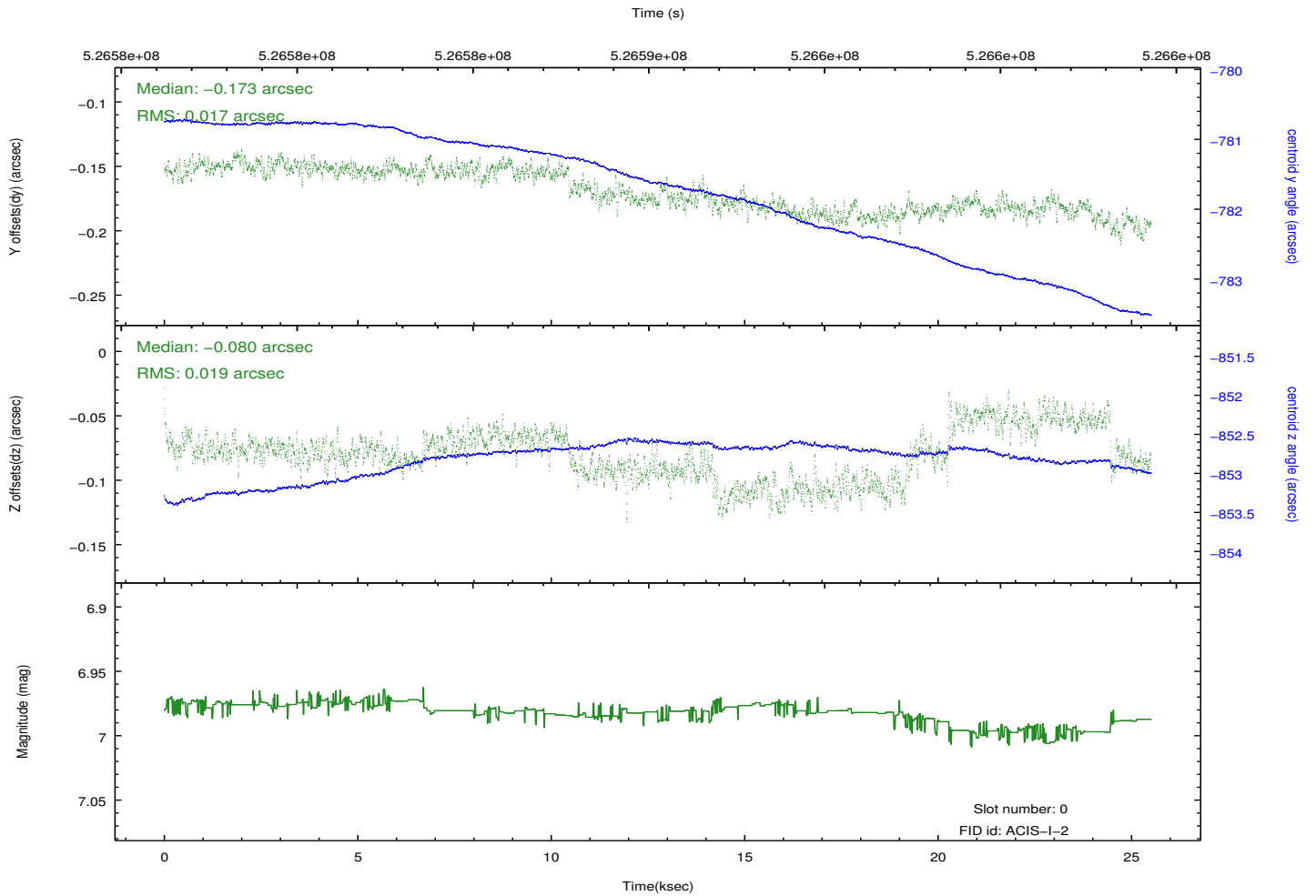
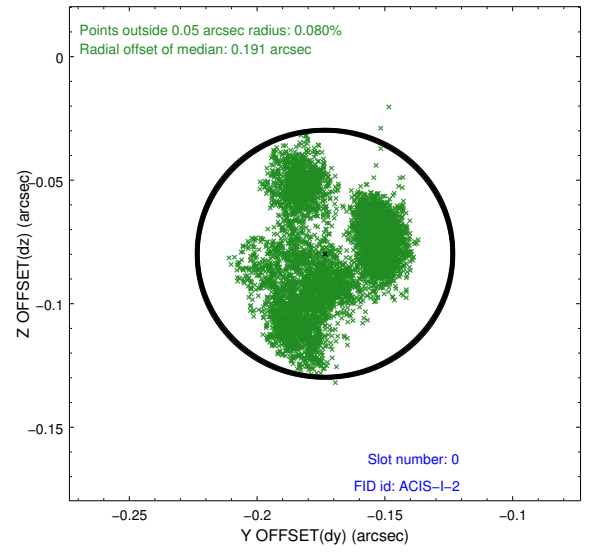
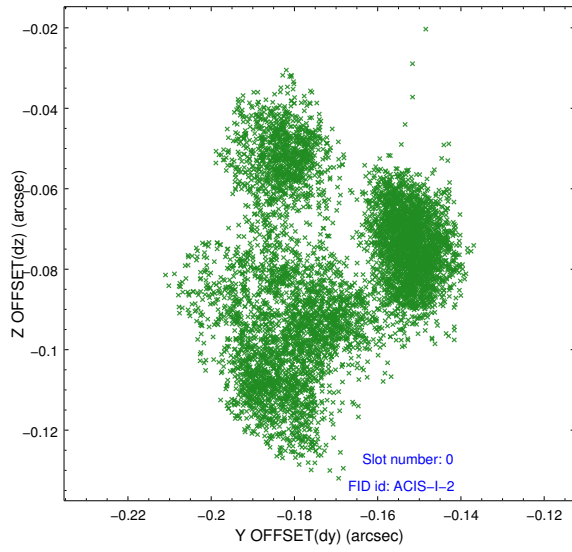


2.4.5 Slot 7

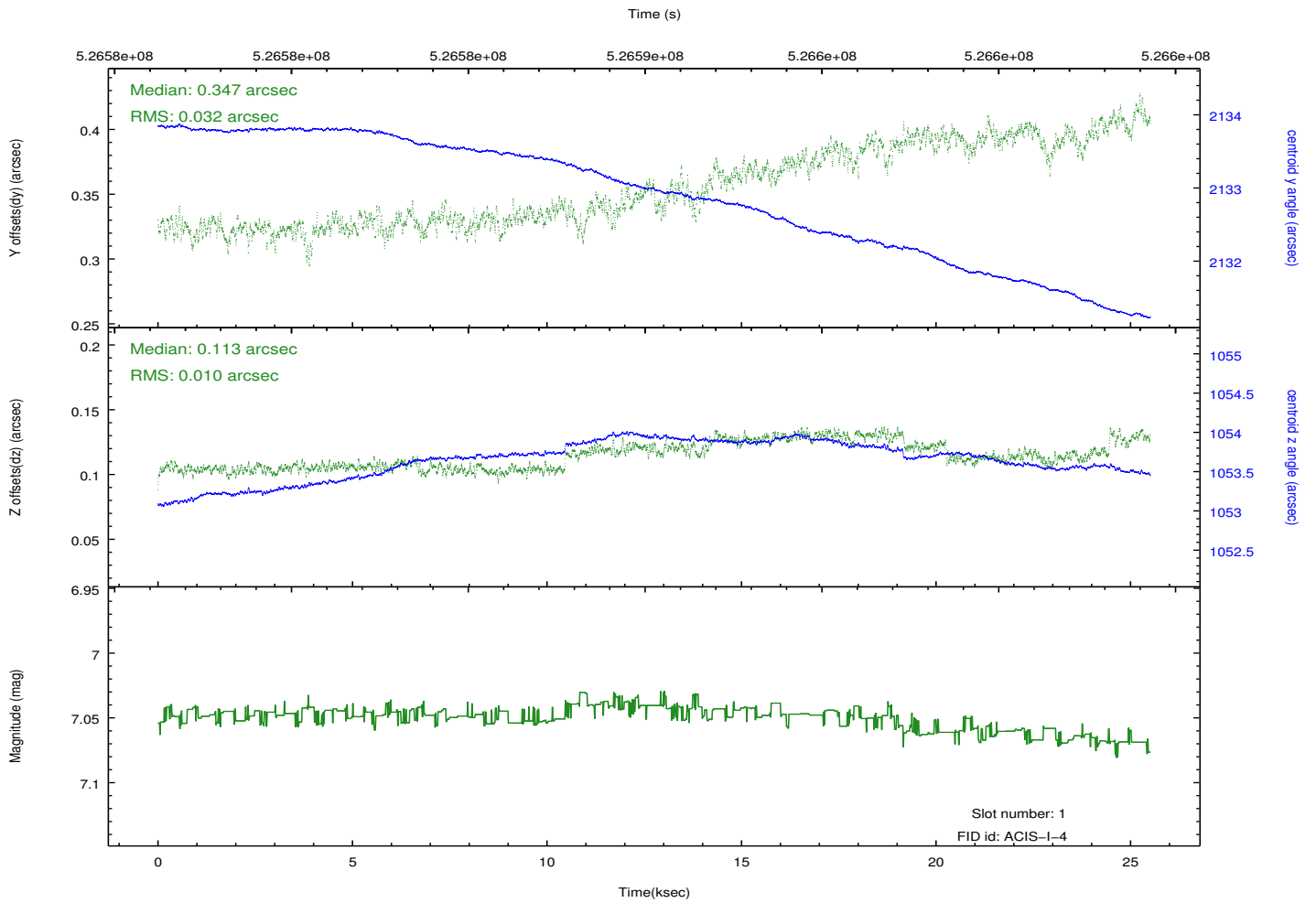
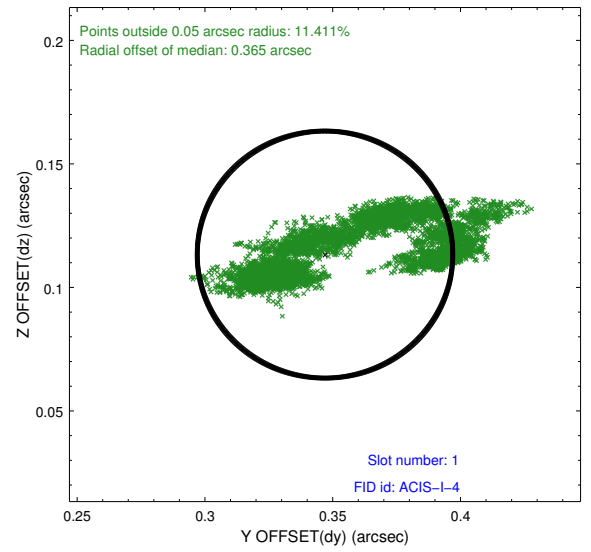
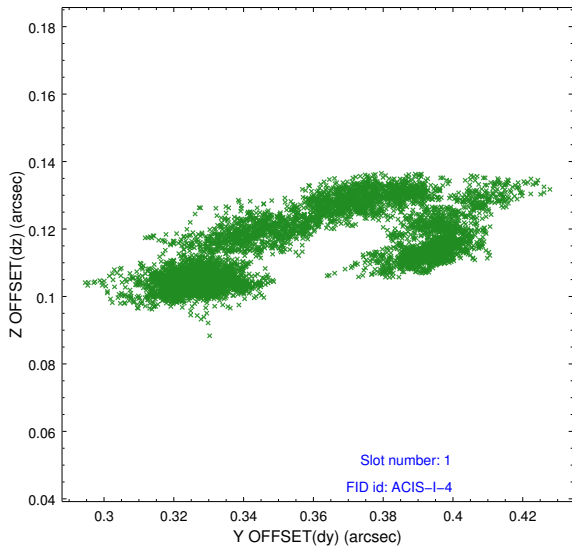


2.5 FID Slots

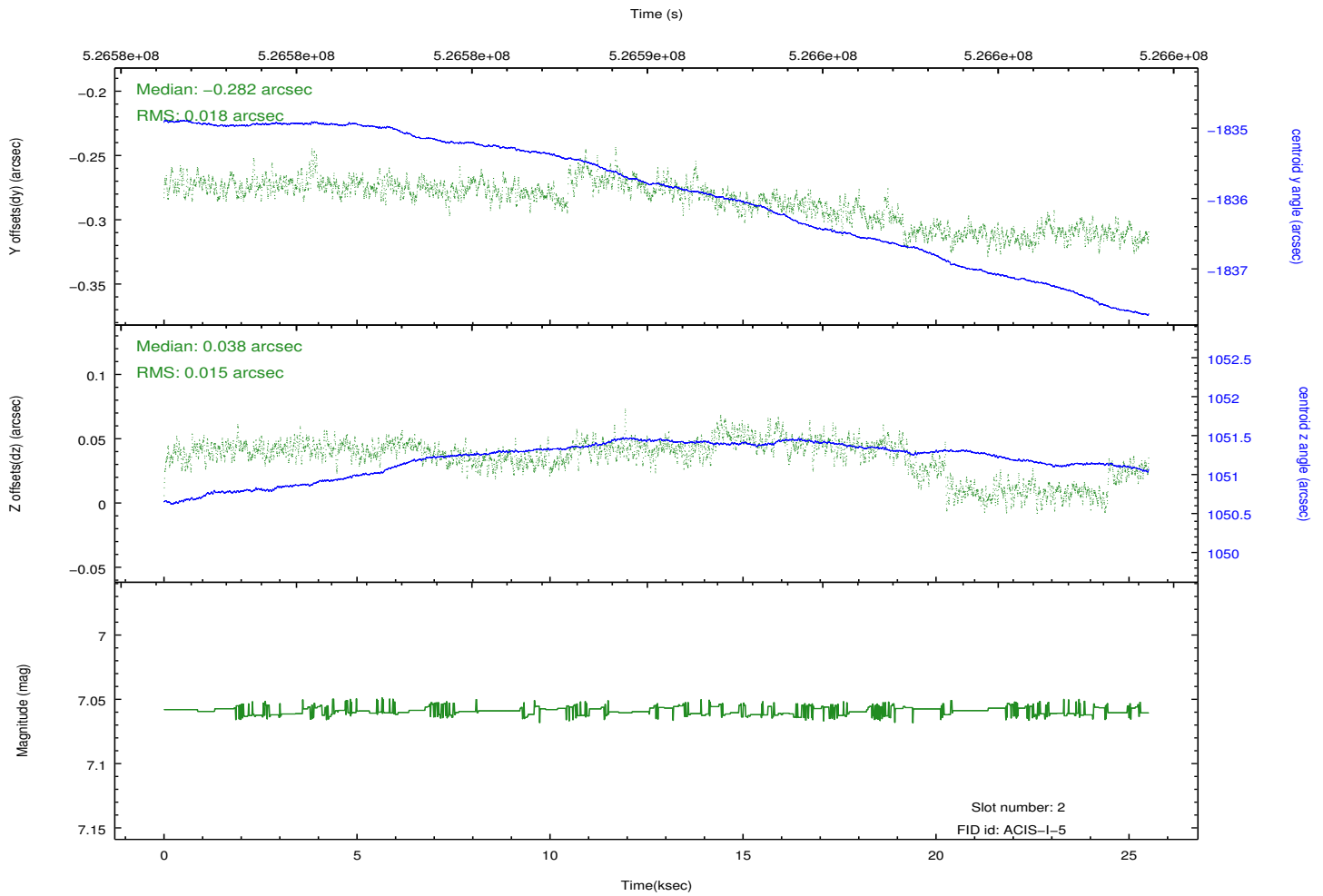
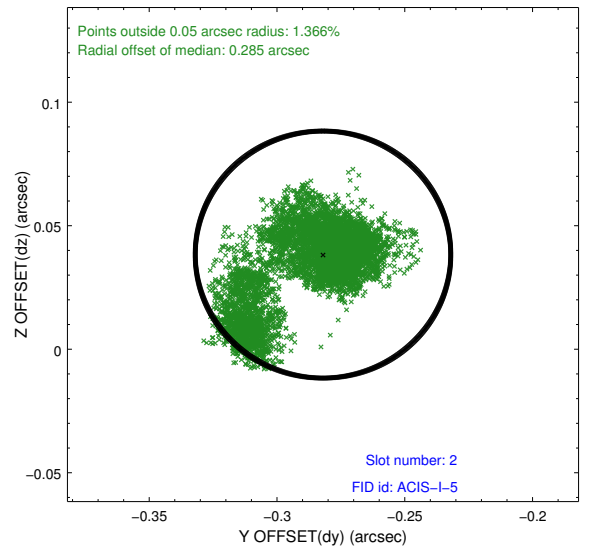
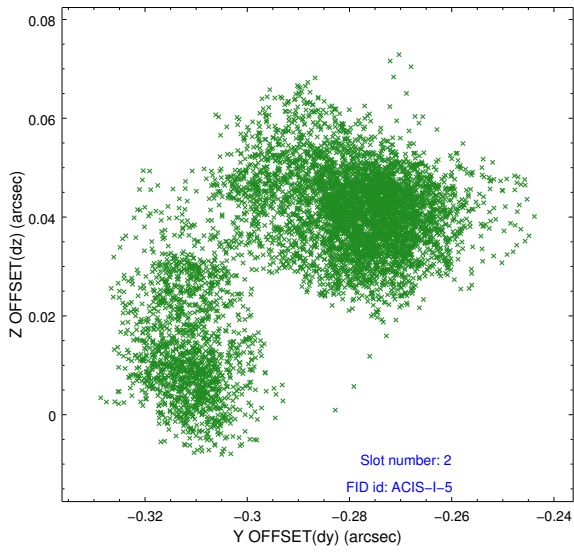
2.5.1 Slot 0



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)	2014.09.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	24.96636995542

A.2 Comments