

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 10106 - L2 Version 2
Chandra X-Ray Center

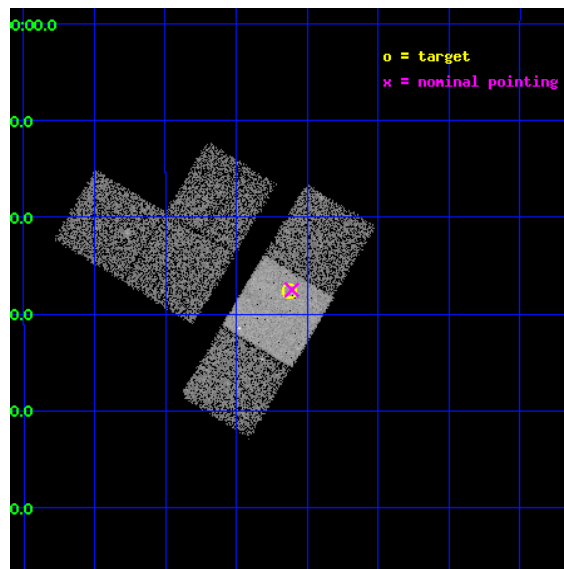
L2 Processing Date : Jun 9 2012

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1 Front

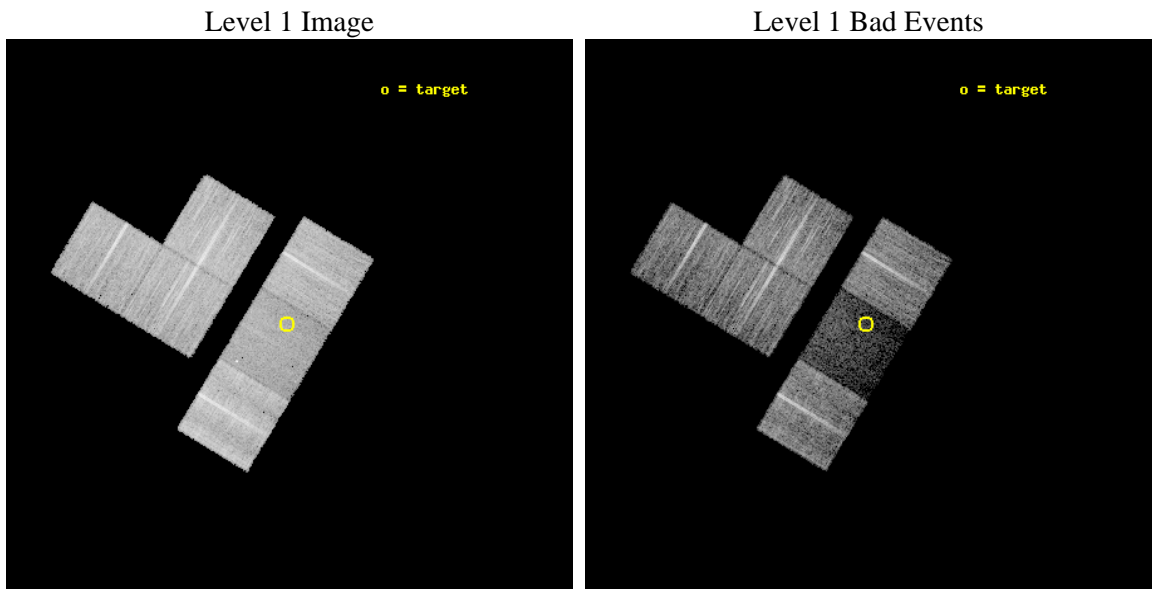
seq_num	501034	Sequence number
obs_id	10106	Observation id
title	Are all black widows alike?	Proposal title
observer	Dr. Vyacheslav Zavlin	Principal investigator
object	PSR J2051-0827	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	312.78125	Observer's specified target RA [deg]
dec_targ	-8.460556	Observer's specified target Dec [deg]
ra_nom	312.77688985871	Nominal RA [deg]
dec_nom	-8.45835551506	Nominal Dec [deg]
roll_nom	121.09805997731	Nominal Roll [deg]
revision	2	Processing version of data
ontime	9036.5930131078	Sum of GTIs [s]
livetime	8922.1662311927	Livetime [s]
ontime1	9030.1520524621	Sum of GTIs [s]
ontime2	9036.4288530946	Sum of GTIs [s]
ontime3	9036.5109331012	Sum of GTIs [s]
ontime6	9036.5519731045	Sum of GTIs [s]
ontime7	9036.5930131078	Sum of GTIs [s]
ontime8	9036.4698930979	Sum of GTIs [s]
l2events	46721	Number of level 2 events



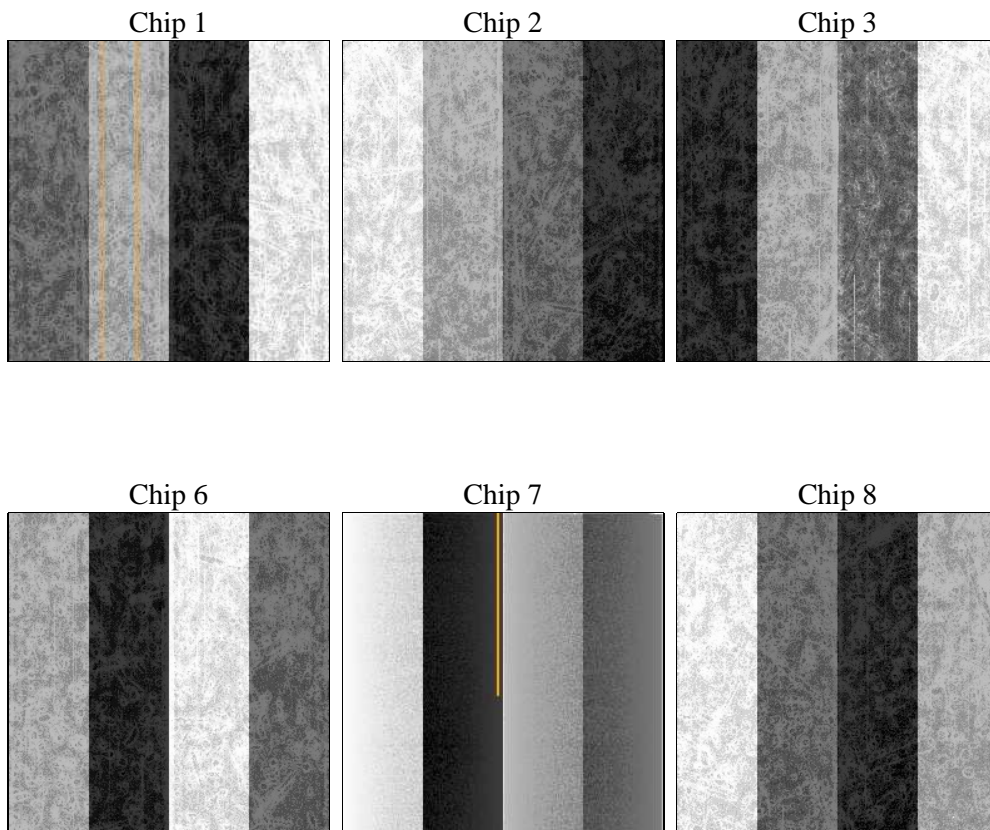
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	9000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	9036.5930131078	Sum of GTIs [s]
caldbver	4.4.10	 	ontime1	9030.1520524621	Sum of GTIs [s]
date	2012-06-09T21:56:48	Date and time of file creation	ontime2	9036.4288530946	Sum of GTIs [s]
revision	2	Processing version of data	ontime3	9036.5109331012	Sum of GTIs [s]
			ontime6	9036.5519731045	Sum of GTIs [s]
			ontime7	9036.5930131078	Sum of GTIs [s]
			ontime8	9036.4698930979	Sum of GTIs [s]
			l1events	383371	Number of level 1 events

2.1.4 Events

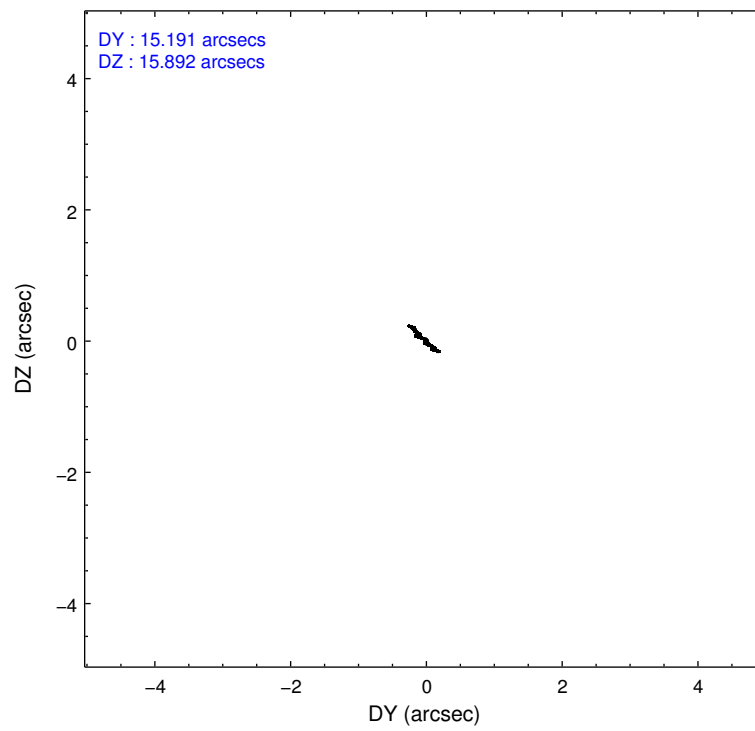
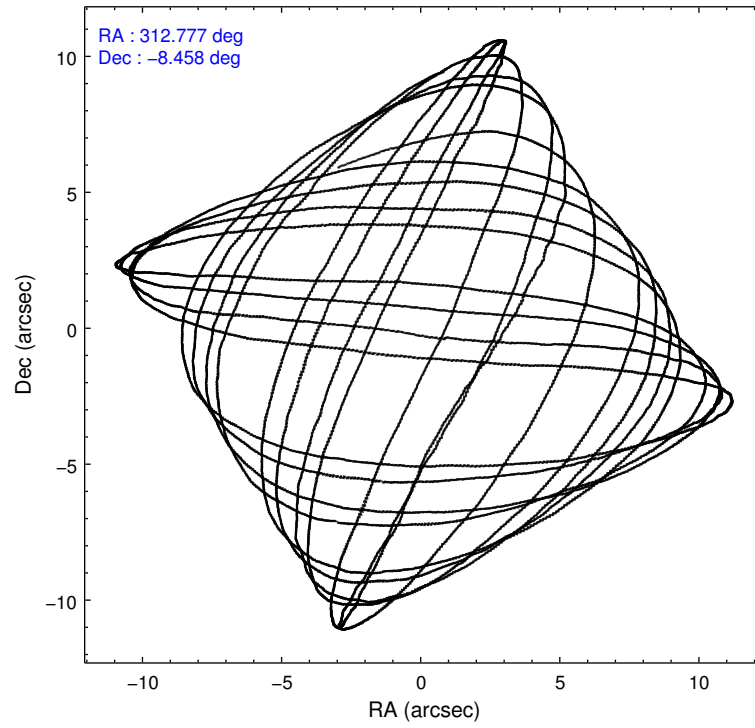
	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	59799	73375	63985	65436	39960	80816
rejected events	53718	67632	58609	59374	16864	58860
rejected %	89%	92%	91%	90%	42%	72%

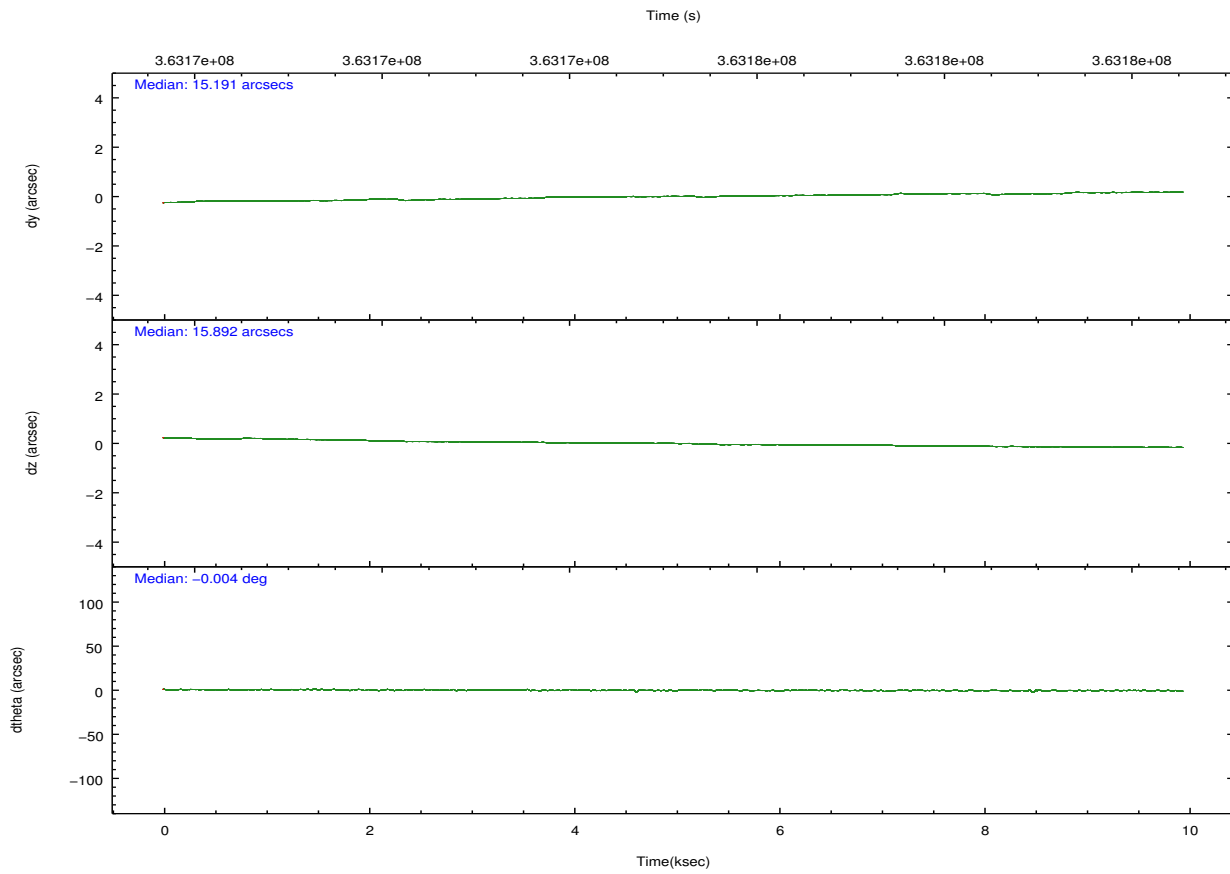
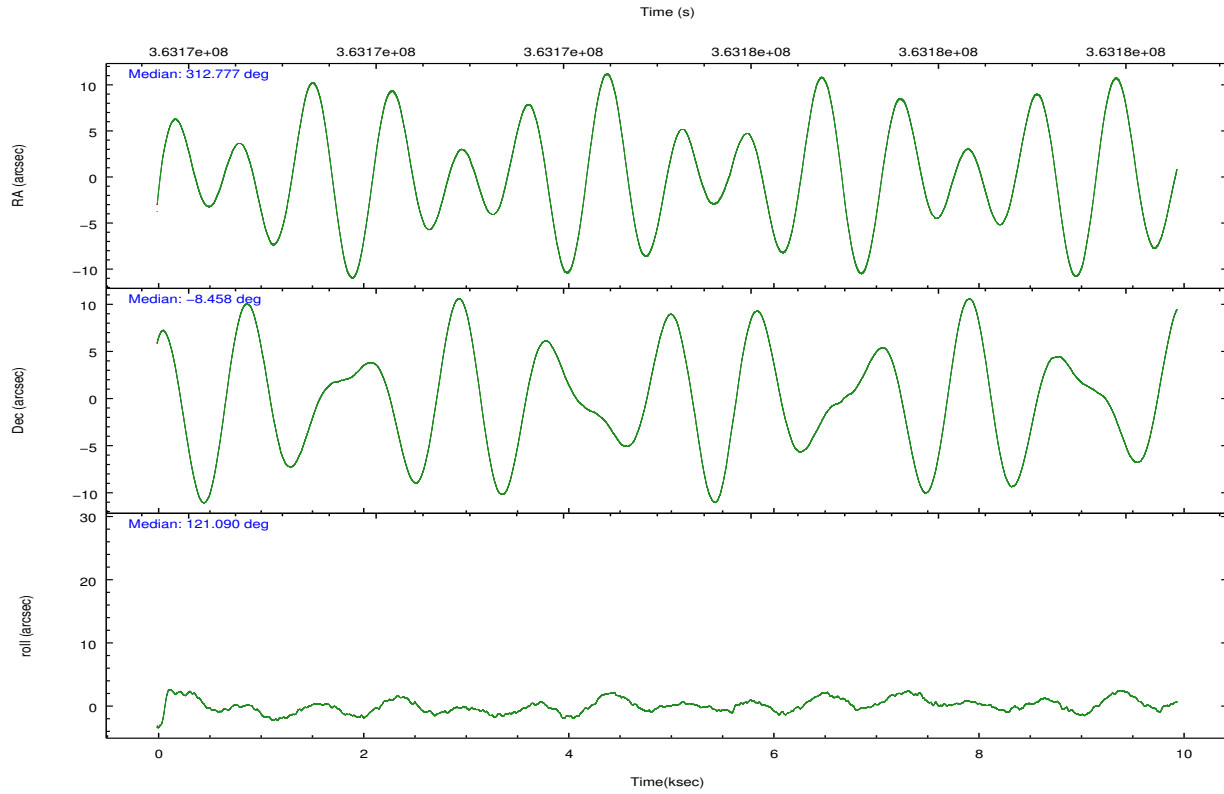
	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	2309	2340	2153	2476	3111	6274
	3%	3%	3%	3%	7%	7%
grade 1 events	33	28	32	38	109	69
	0%	0%	0%	0%	0%	0%
grade 2 events	1335	1358	1186	1364	5613	5341
	2%	1%	1%	2%	14%	6%
grade 3 events	739	597	622	611	2372	2336
	1%	0%	0%	0%	5%	2%
grade 4 events	702	631	564	600	2245	2182
	1%	0%	0%	0%	5%	2%
grade 5 events	1417	1013	1341	1386	4112	2409
	2%	1%	2%	2%	10%	2%
grade 6 events	1003	819	858	1016	9770	5861
	1%	1%	1%	1%	24%	7%
grade 7 events	52261	66589	57229	57945	12628	56344
	87%	90%	89%	88%	31%	69%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-123678	ACIS-123678	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	O1	Y
[deg] Pointing RA	312.801276	312.776889858709	CCD I2 on	Y	Y
[deg] Pointing Dec	-8.471227	-8.45835551505996	CCD I3 on	Y	Y
[deg] Pointing Roll	120.945019	121.0980599773064	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	Y	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)	363171073.184000	363169690.55647	CCD S5 on	N	N
Observation start date	2009-07-05T08:50:07	2009-07-05T08:28:10	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	363180073.184000	363180208.082	On-chip summing requested	N	N
Observation end date	2009-07-05T11:20:07	2009-07-05T11:23:28	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



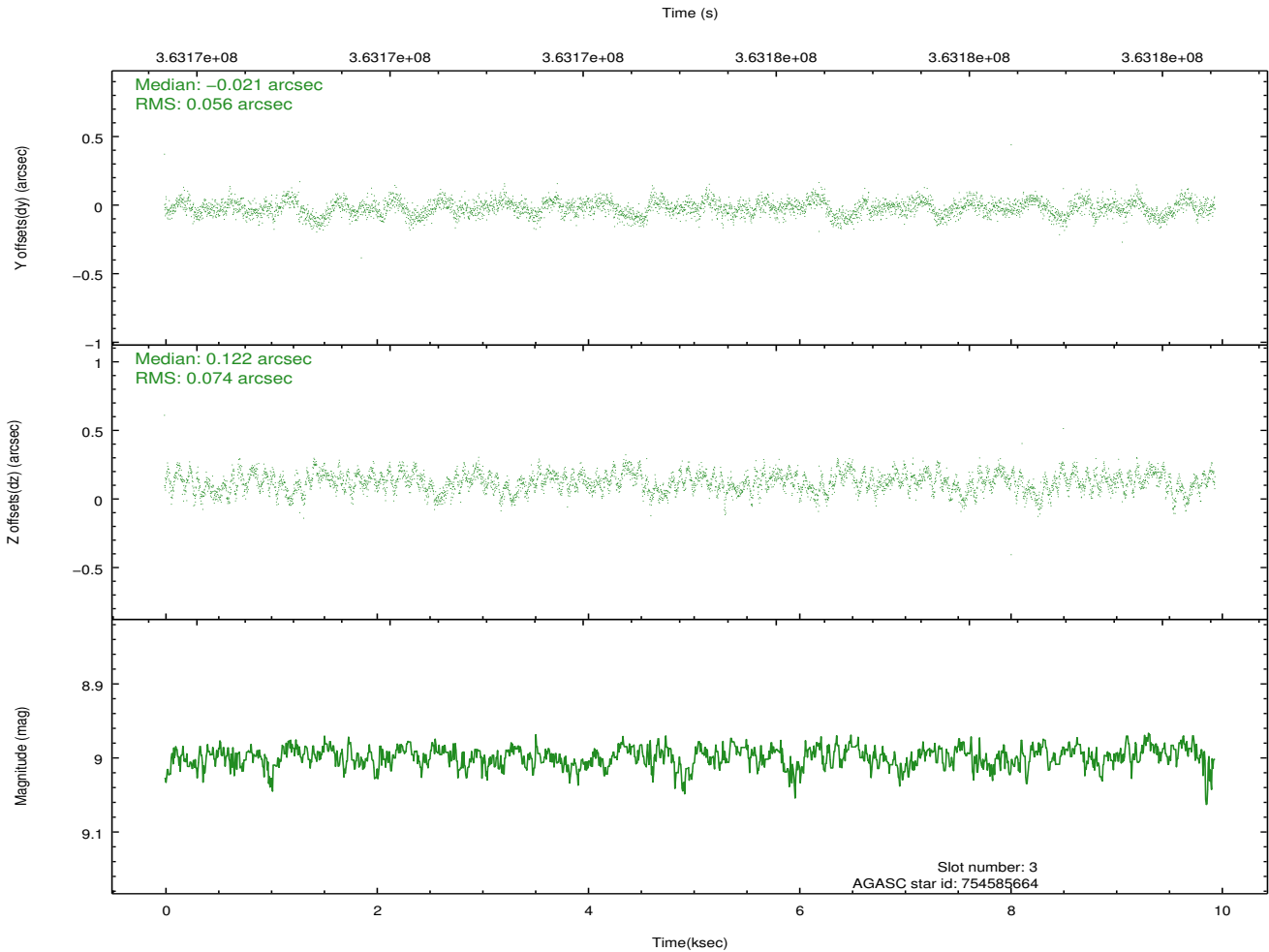
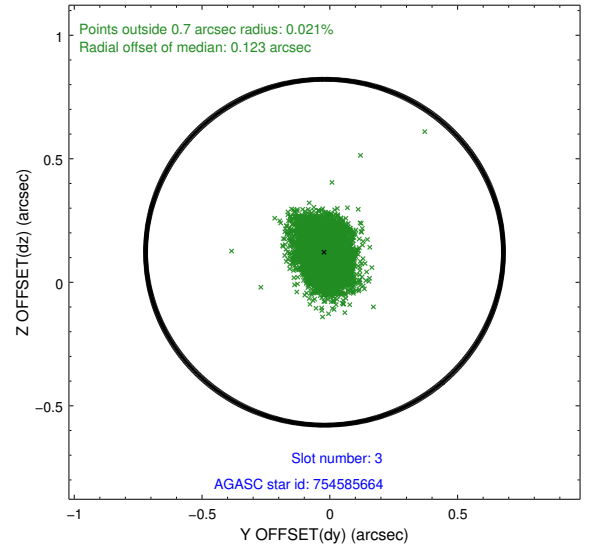
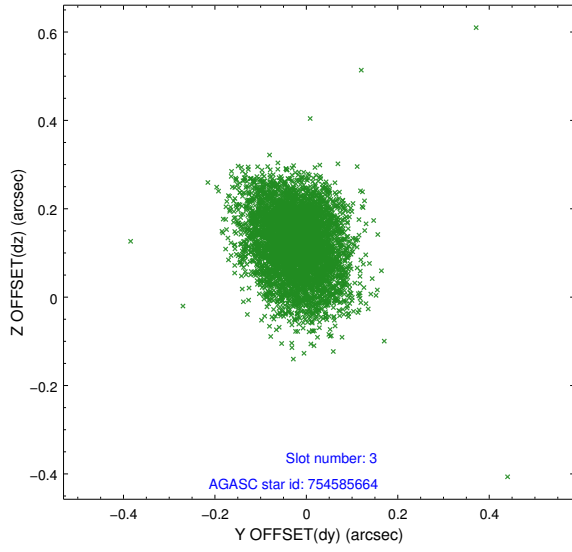


Slot Statistics

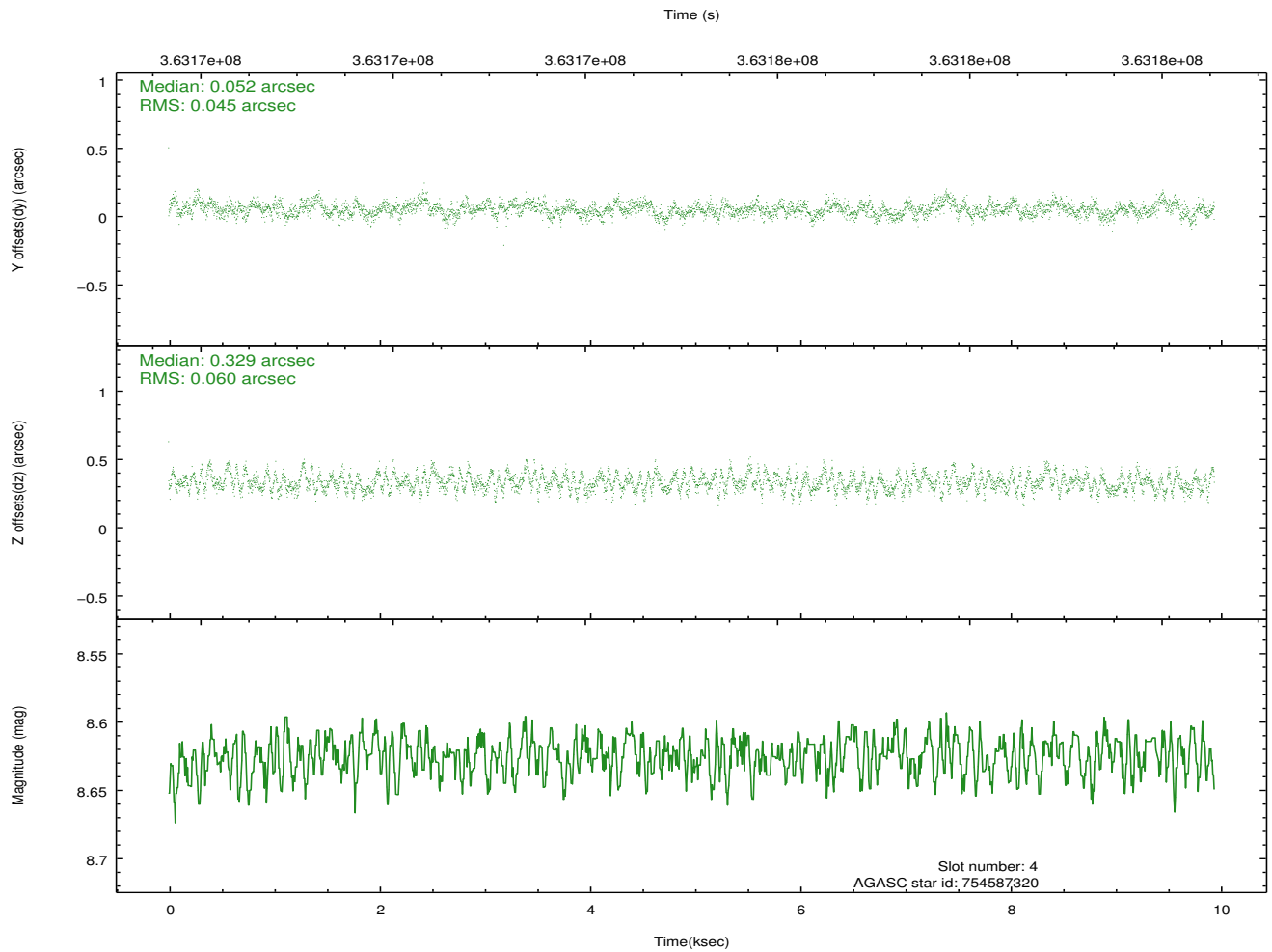
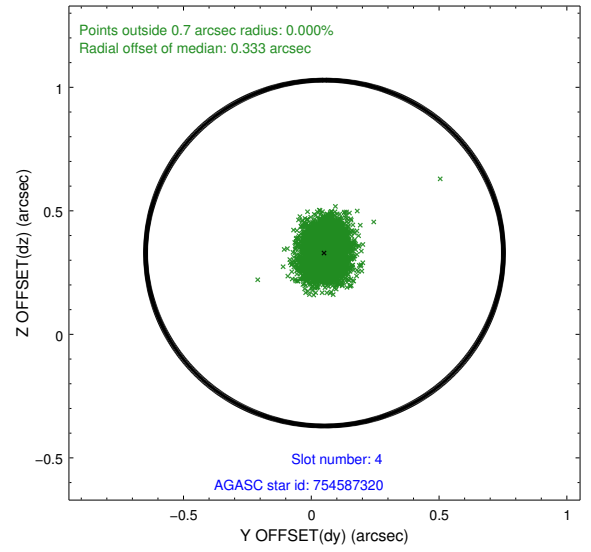
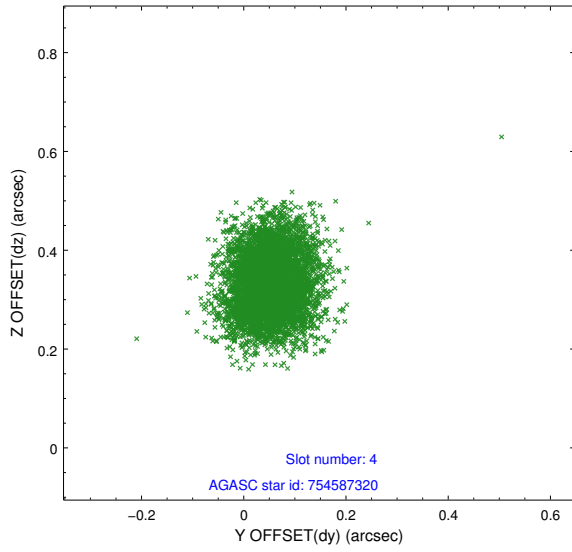
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.92	2426	-0.086	-0.004	0.008	0.013	0.000000	0.000000	-768.23	-1737.25
1	FID	ACIS-S-4	7.01	2426	0.172	0.043	0.006	0.011	0.000000	0.000000	2145.05	170.74
2	FID	ACIS-S-5	7.03	2426	-0.117	-0.030	0.007	0.012	0.000000	0.000000	-1820.43	164.92
3	GUIDE	754585664	9.00	4851	-0.021	0.122	0.097	0.158	313.121538	-8.063030	673.38	-1734.10
4	GUIDE	754587320	8.62	4848	0.052	0.329	0.080	0.130	313.590335	-8.511412	-1570.48	-2333.92
5	GUIDE	754590240	8.96	4850	0.106	-0.079	0.075	0.120	312.912479	-8.998883	-1832.67	637.05
6	GUIDE	754594632	6.42	4852	-0.104	-0.268	0.057	0.089	312.330933	-8.794047	-137.95	2033.27
7	GUIDE	754595784	8.49	4848	-0.031	-0.103	0.074	0.116	312.372598	-8.652506	224.46	1648.66

2.4 Star Slots

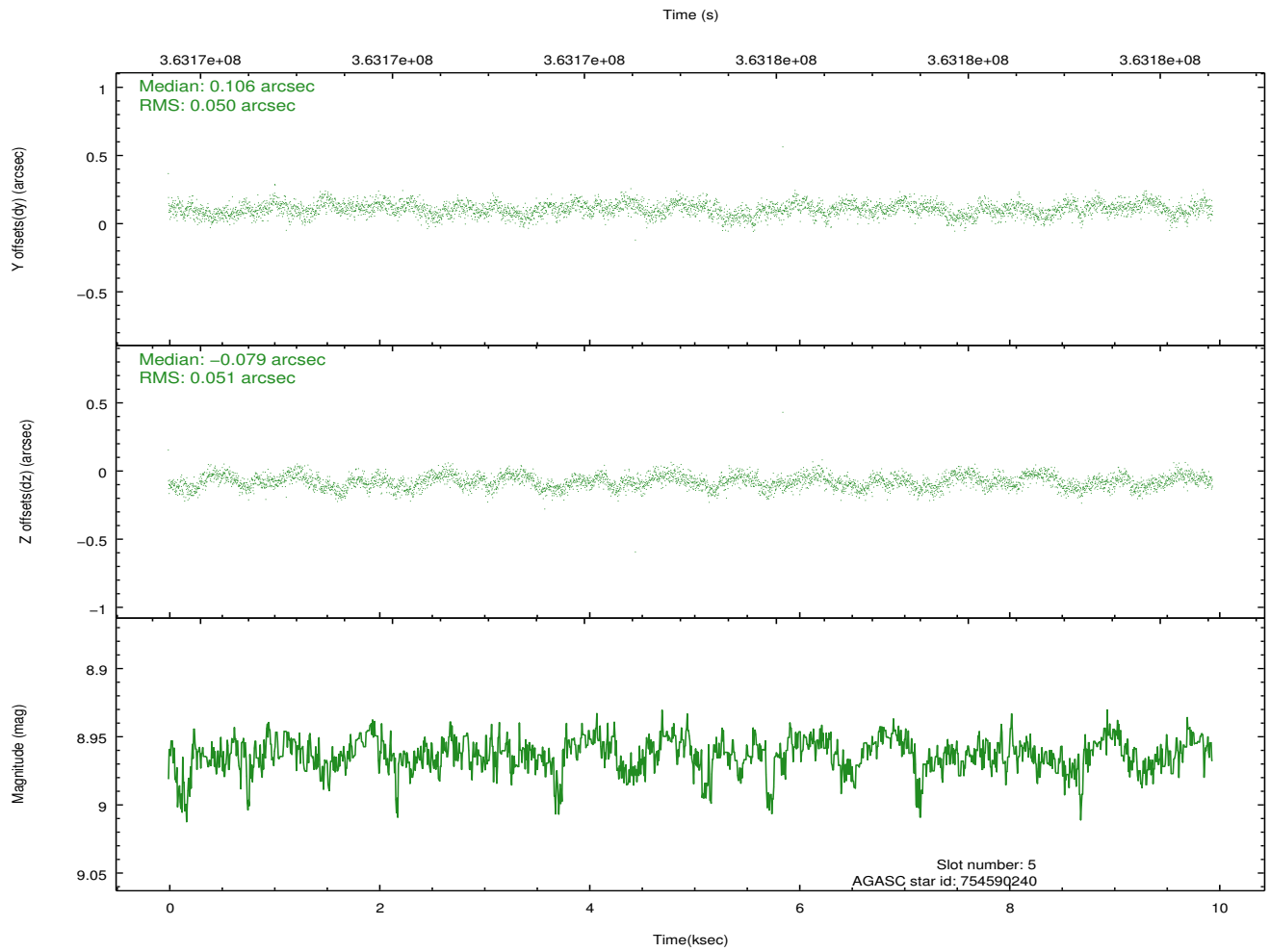
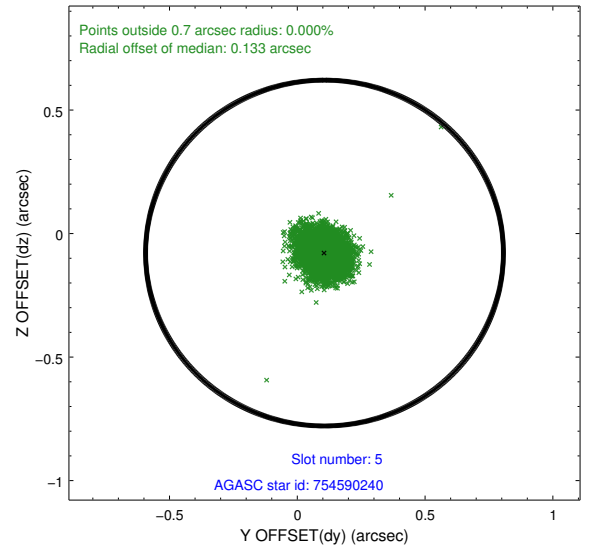
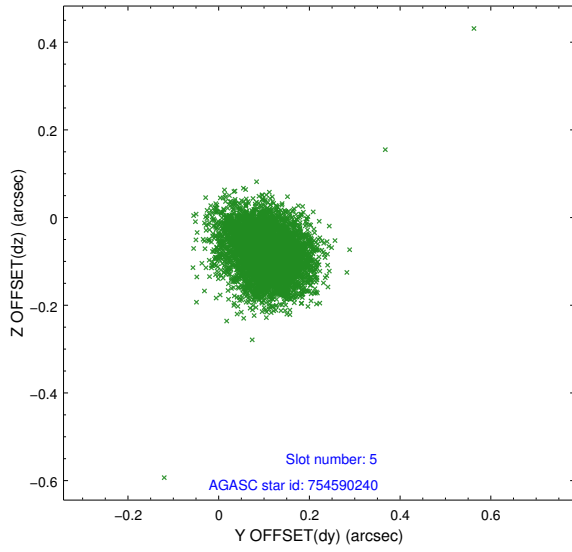
2.4.1 Slot 3



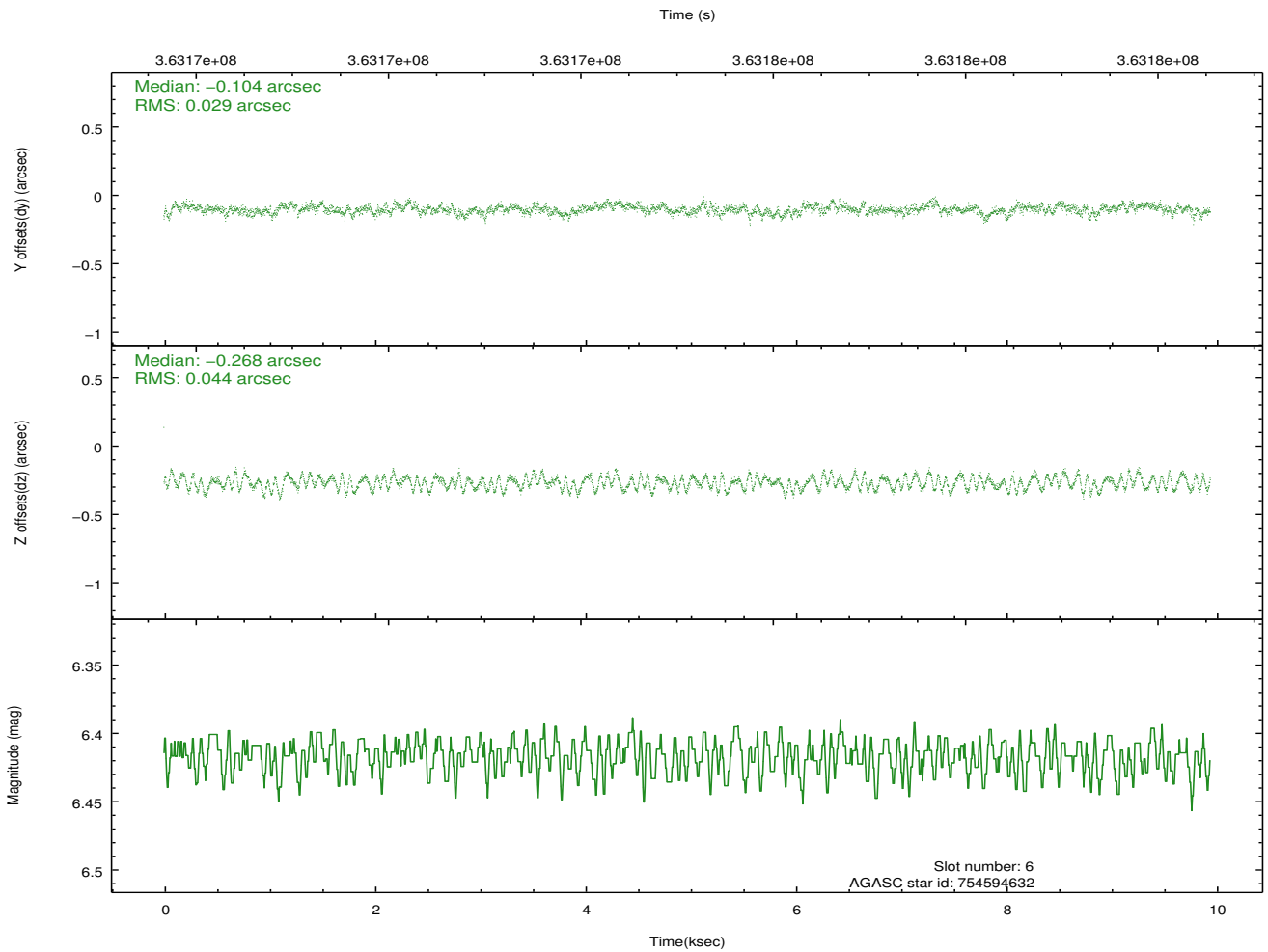
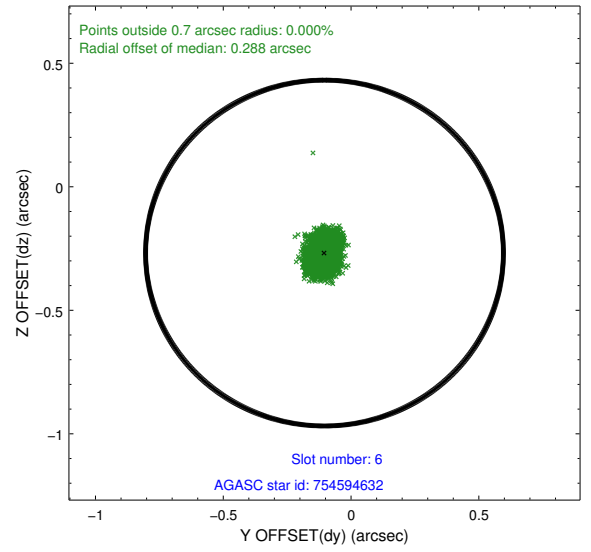
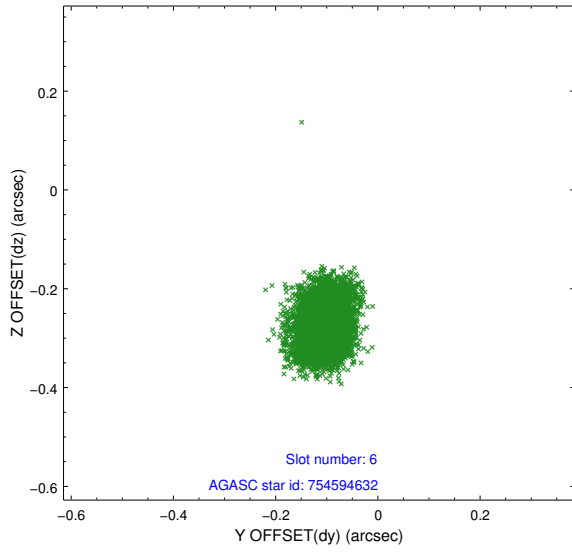
2.4.2 Slot 4



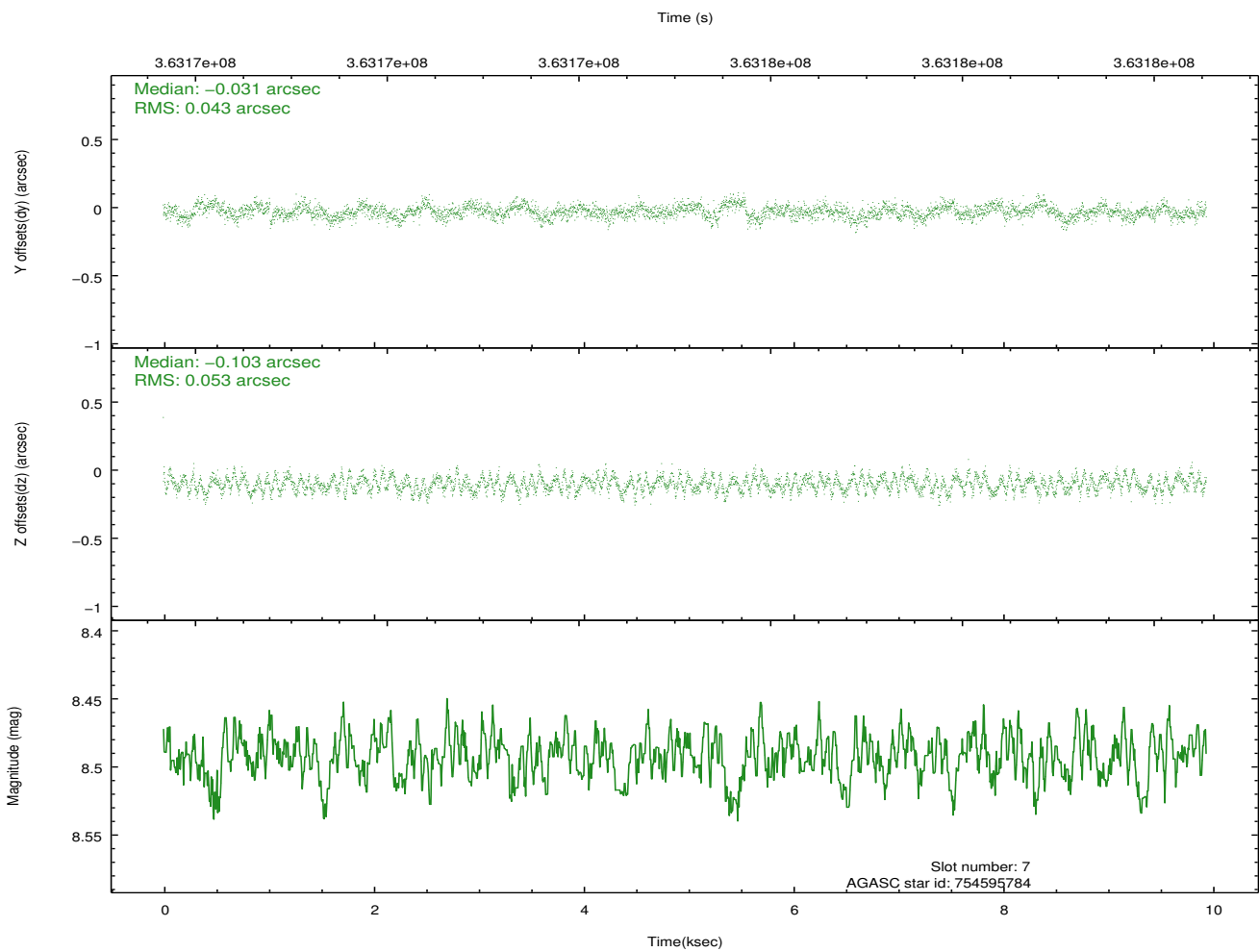
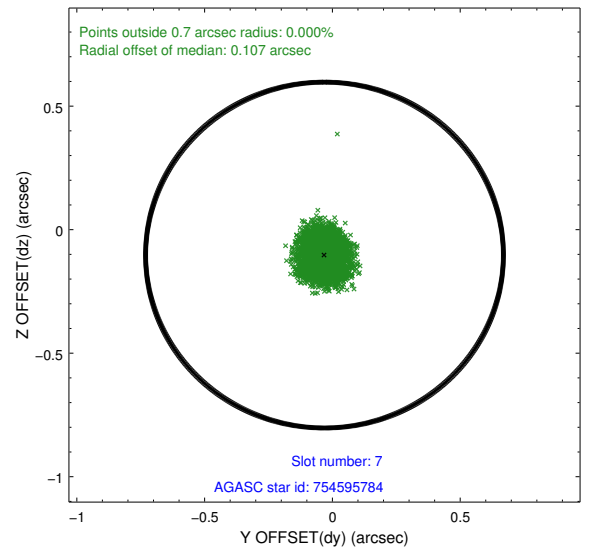
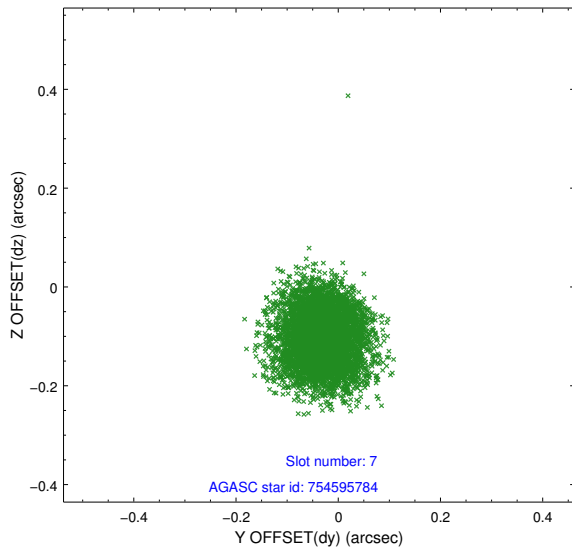
2.4.3 Slot 5



2.4.4 Slot 6

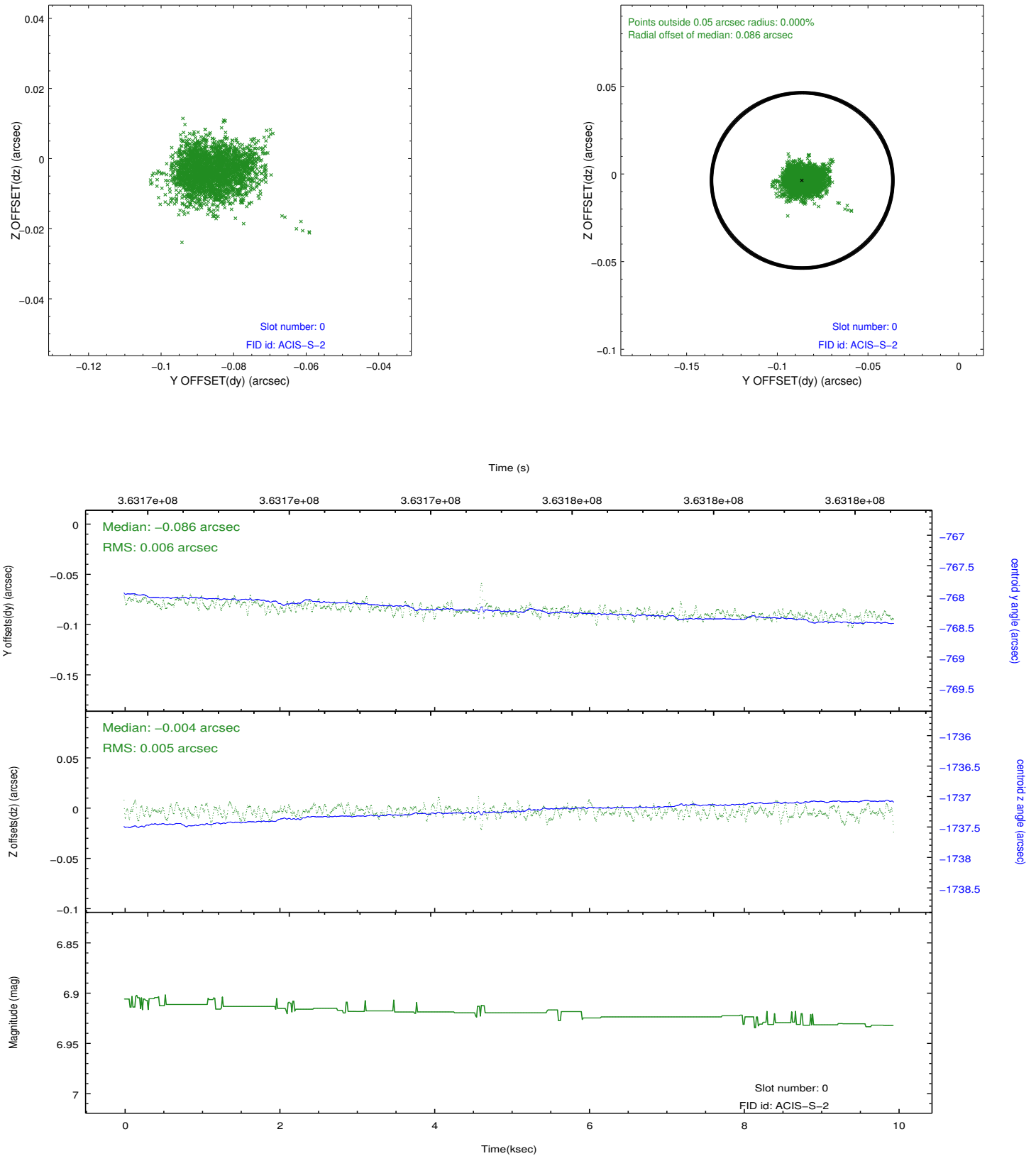


2.4.5 Slot 7

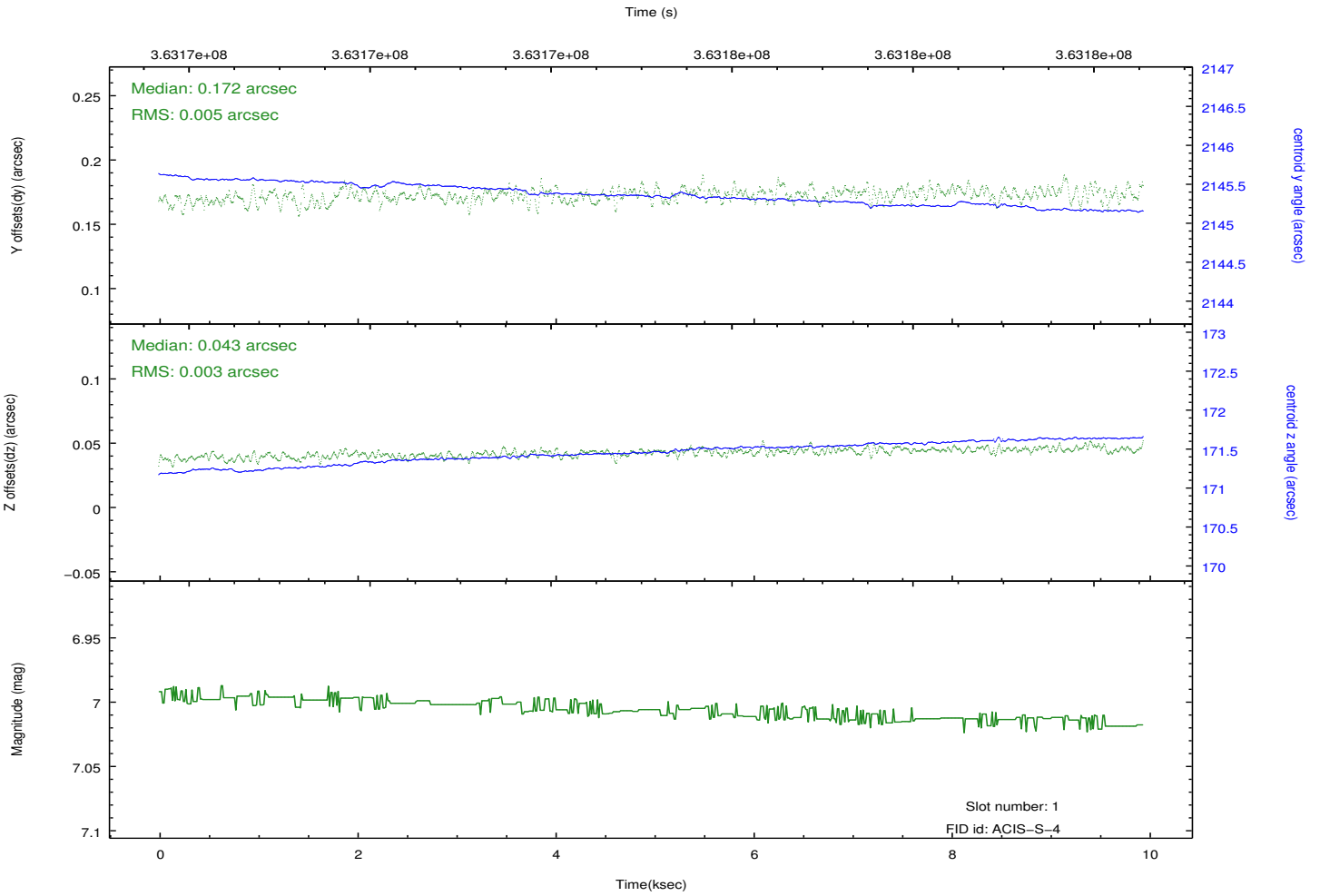
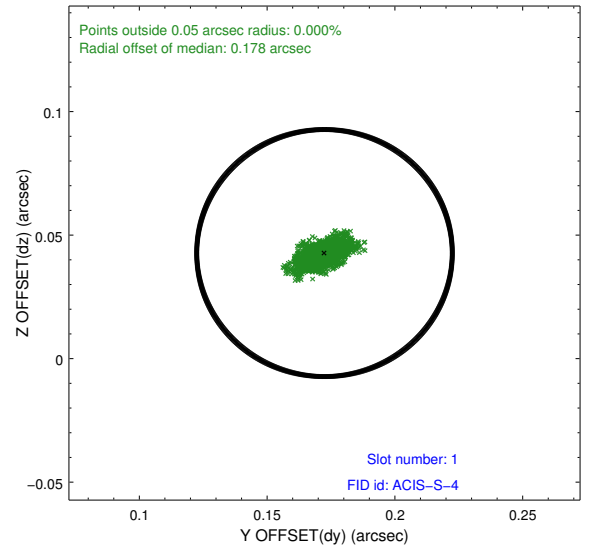
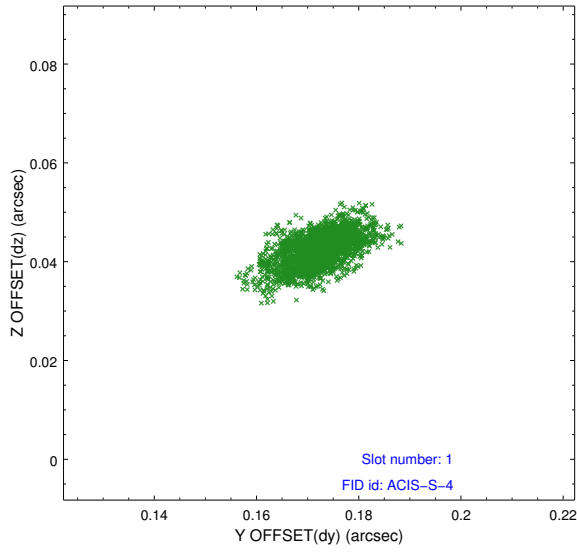


2.5 FID Slots

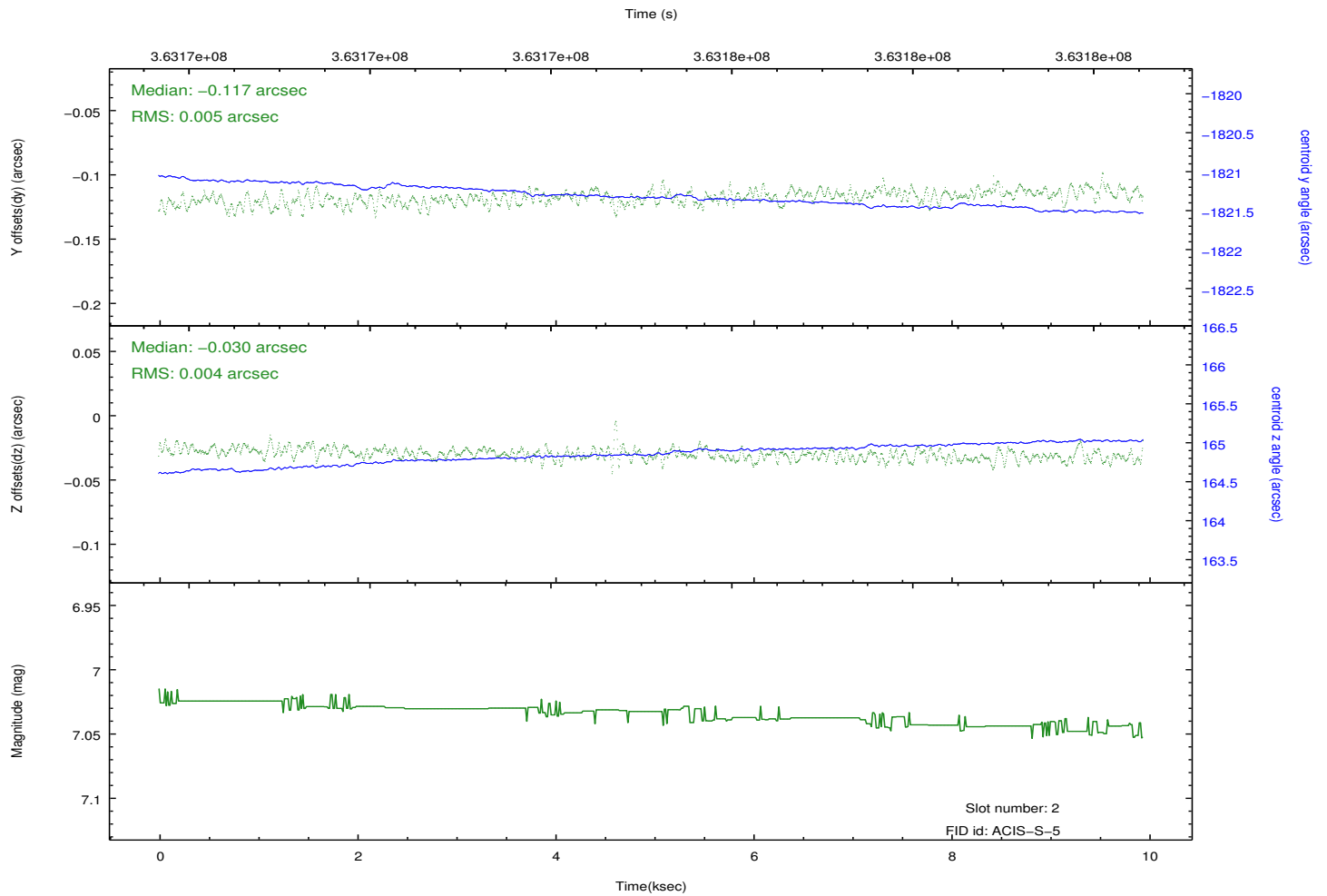
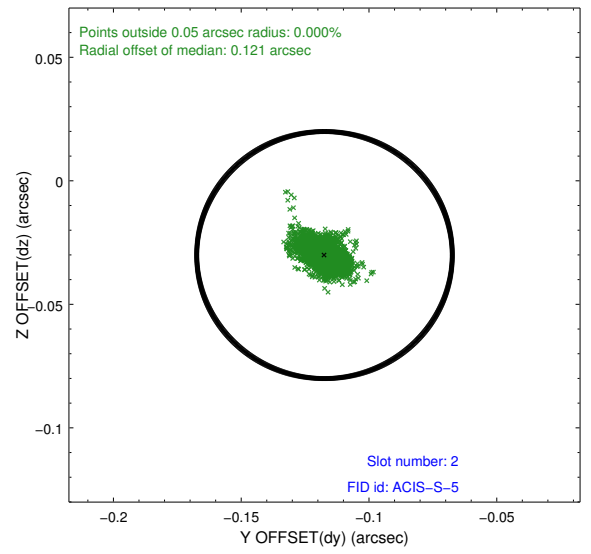
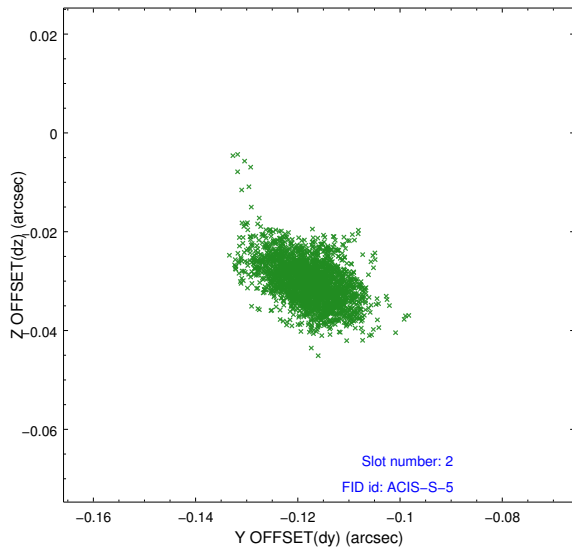
2.5.1 Slot 0



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)	2012.06.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.03679996

A.2 Comments