

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 10887 - L2 Version 2
Chandra X-Ray Center

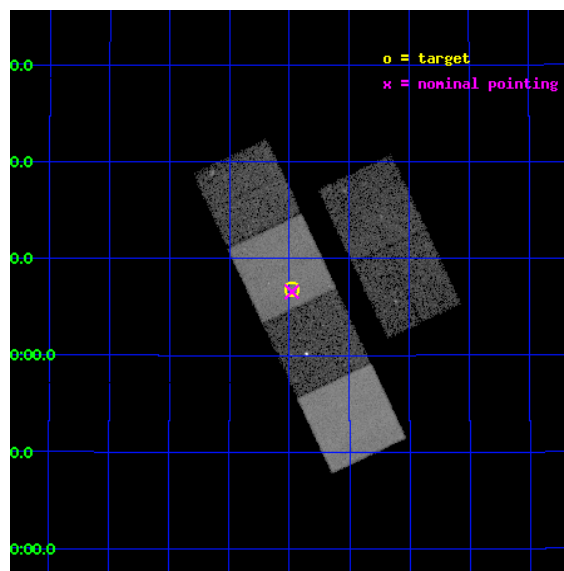
L2 Processing Date : Jun 2 2012

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1 Front

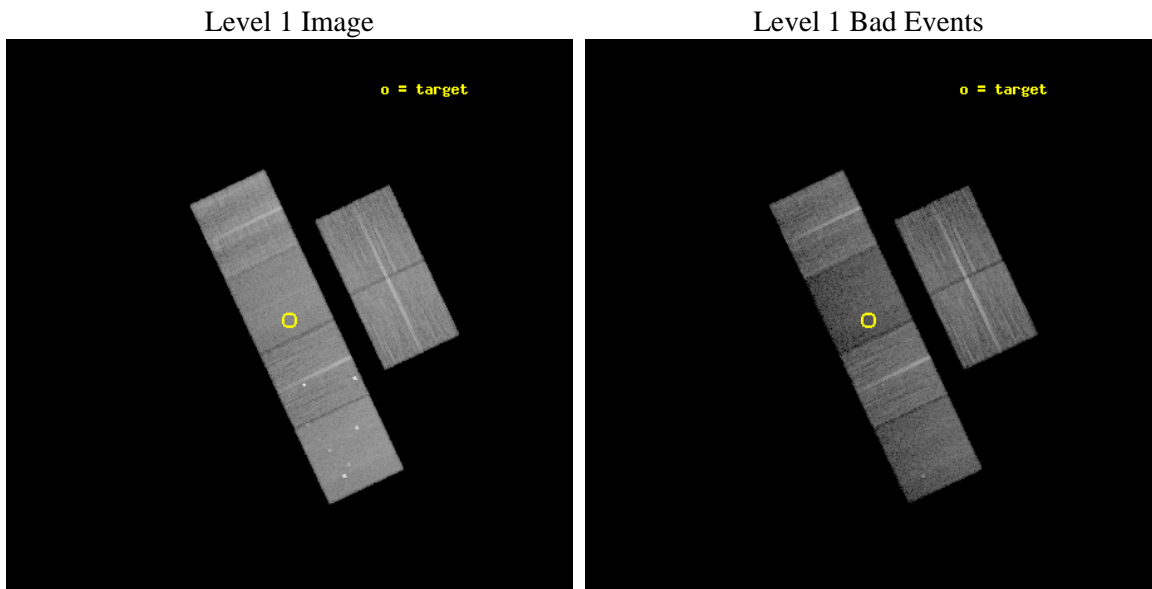
seq_num	501164	Sequence number
obs_id	10887	Observation id
title	Long GRB Jet Breaks	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	GRB 090102	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	128.244167	Observer's specified target RA [deg]
dec_targ	33.114472	Observer's specified target Dec [deg]
ra_nom	128.2448136911	Nominal RA [deg]
dec_nom	33.109680564366	Nominal Dec [deg]
roll_nom	244.75764936181	Nominal Roll [deg]
revision	2	Processing version of data
ontime	14671.999945402	Sum of GTIs [s]
livetime	14486.214247676	Livetime [s]
ontime2	14671.999945402	Sum of GTIs [s]
ontime3	14671.999945402	Sum of GTIs [s]
ontime5	14671.999945402	Sum of GTIs [s]
ontime6	14671.999945402	Sum of GTIs [s]
ontime7	14671.999945402	Sum of GTIs [s]
ontime8	14671.999945402	Sum of GTIs [s]
l2events	171739	Number of level 2 events



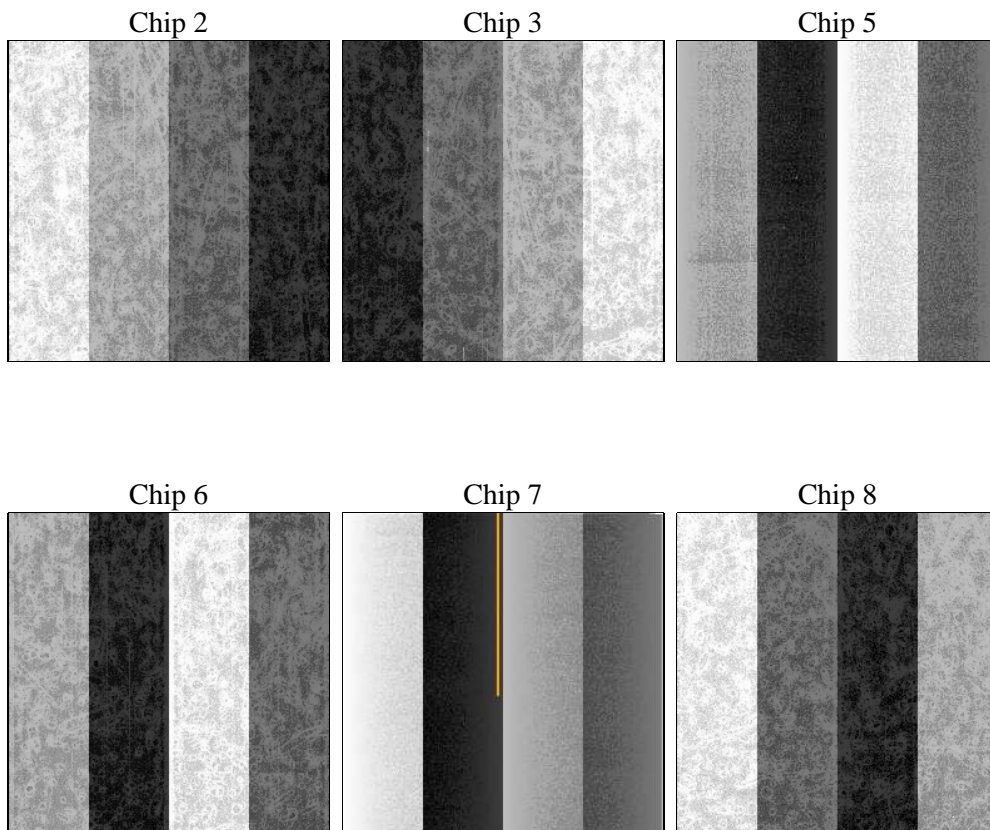
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	14500.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	14671.999945402	Sum of GTIs [s]
caldsver	4.4.9	 	ontime2	14671.999945402	Sum of GTIs [s]
date	2012-06-02T15:05:43	Date and time of file creation	ontime3	14671.999945402	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	14671.999945402	Sum of GTIs [s]
			ontime6	14671.999945402	Sum of GTIs [s]
			ontime7	14671.999945402	Sum of GTIs [s]
			ontime8	14671.999945402	Sum of GTIs [s]
			l1events	789523	Number of level 1 events

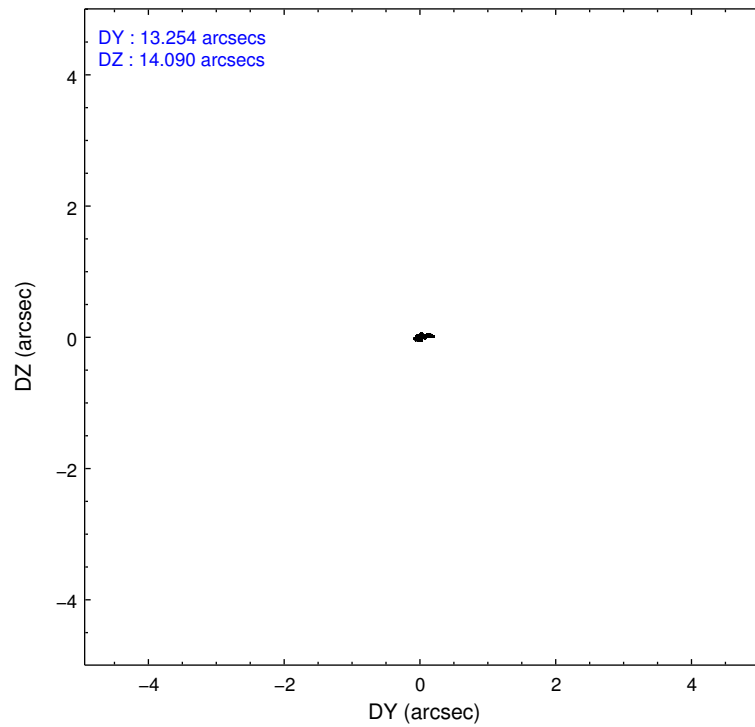
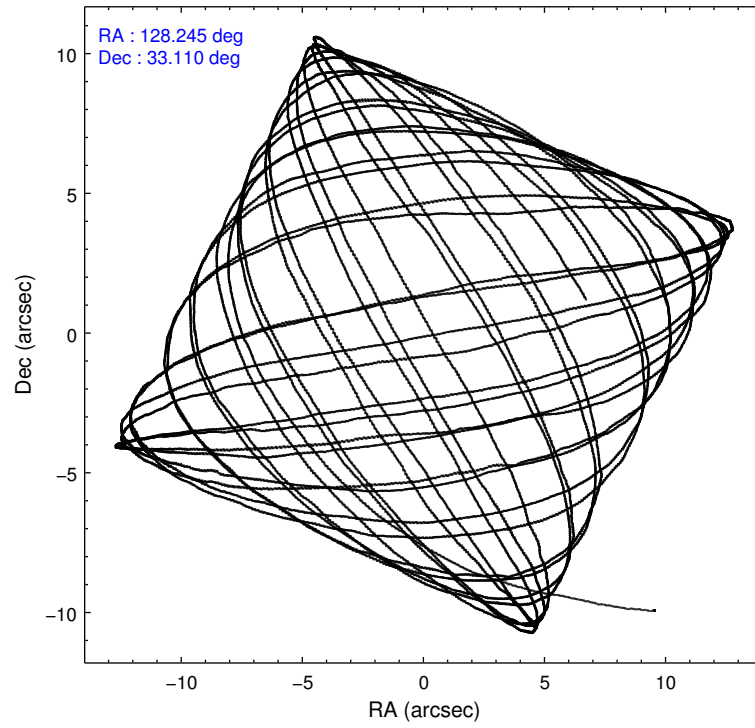
2.1.4 Events

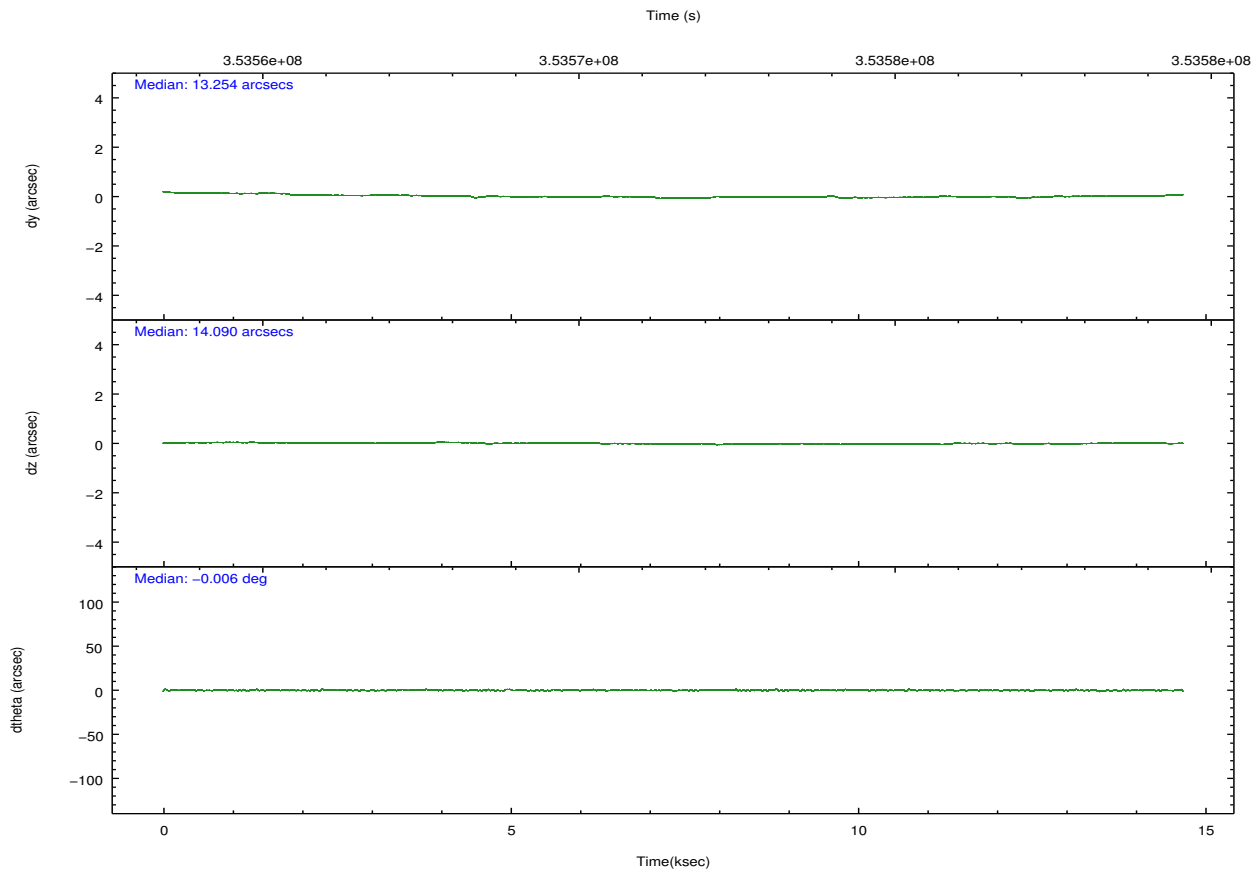
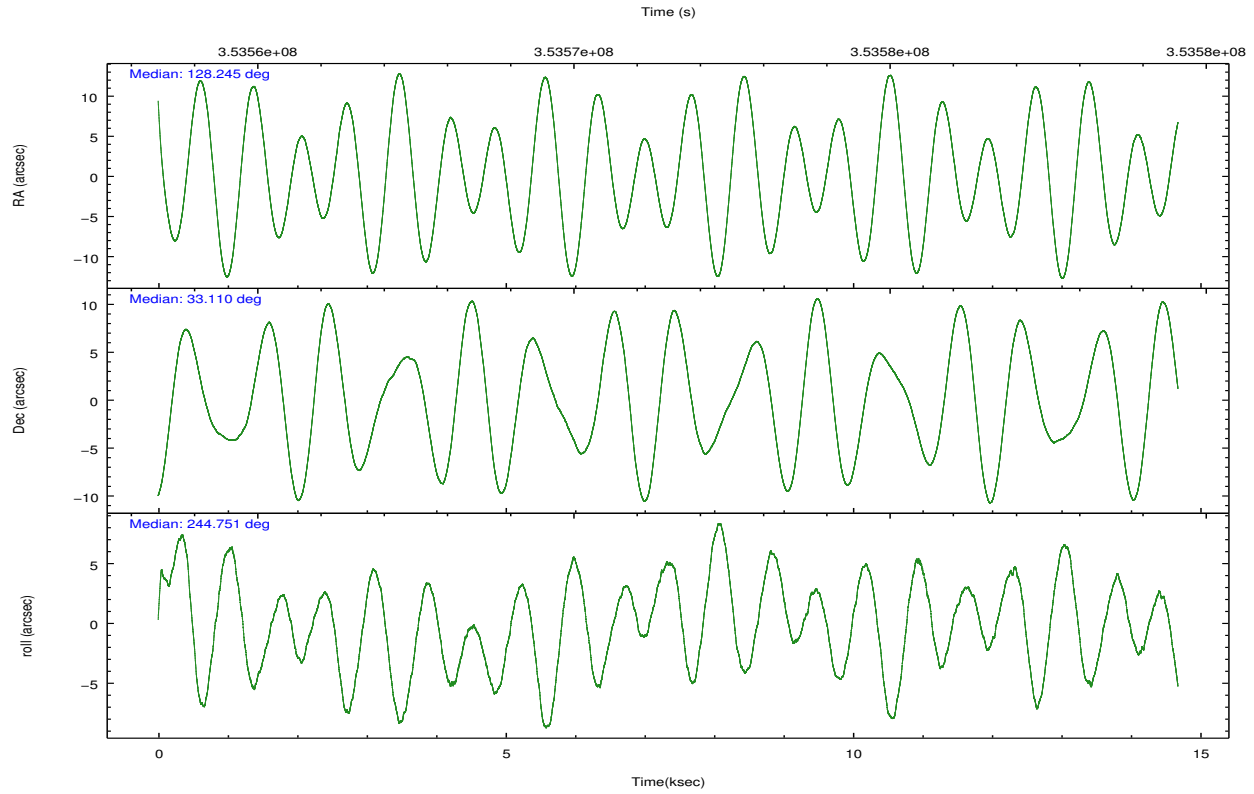
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	132204	113786	155508	127759	115569	144697	grade 0 events	4267	3908	10218	11420	5747	10394
rejected events	120767	103235	73145	108149	59276	108698		3%	3%	6%	8%	4%	7%
rejected %	91%	90%	47%	84%	51%	75%	grade 1 events	81	54	569	130	203	101
								0%	0%	0%	0%	0%	0%
							grade 2 events	2805	2293	25870	3138	12208	8674
								2%	2%	16%	2%	10%	5%
							grade 3 events	1199	1161	3343	1439	5280	3925
								0%	1%	2%	1%	4%	2%
							grade 4 events	1295	1207	3342	1345	5168	3561
								0%	1%	2%	1%	4%	2%
							grade 5 events	3465	3948	12010	4138	12341	6368
								2%	3%	7%	3%	10%	4%
							grade 6 events	2011	2108	40612	2508	28460	9700
								1%	1%	26%	1%	24%	6%
							grade 7 events	117081	99107	59544	103641	46162	101974
								88%	87%	38%	81%	39%	70%

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	128.241660	128.2448136910994	CCD I2 on	O2	Y
[deg] Pointing Dec	33.136871	33.1096805643661	CCD I3 on	O3	Y
[deg] Pointing Roll	244.602740	244.7576493618106	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O5	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	O4	Y
[s] Observation start time (MET)	353564329.184000	353563175.34029	CCD S5 on	N	N
Observation start date	2009-03-16T04:17:43	2009-03-16T03:59:35	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	353578829.184000	353579437.9911	On-chip summing requested	N	N
Observation end date	2009-03-16T08:19:23	2009-03-16T08:30:37	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



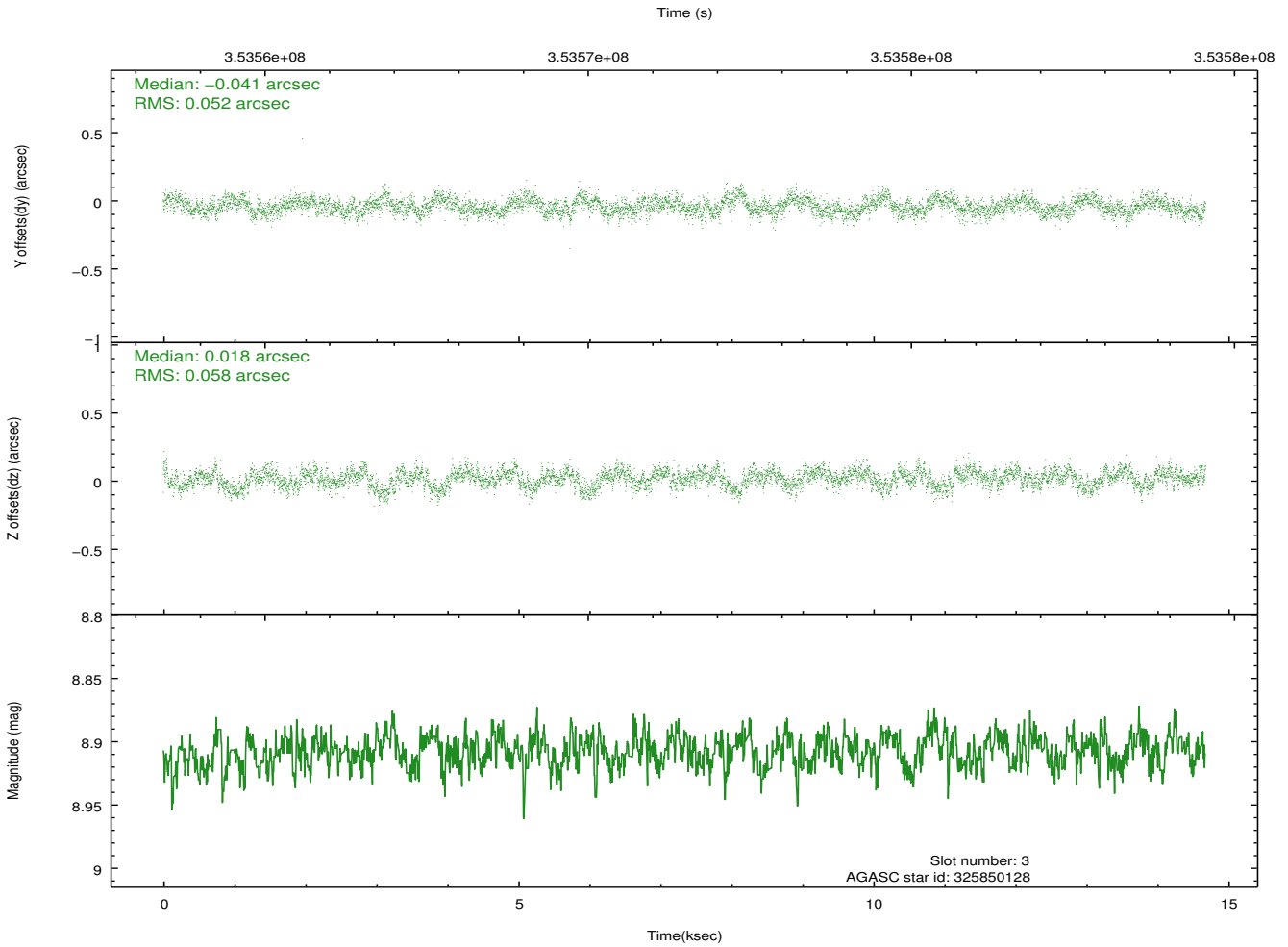
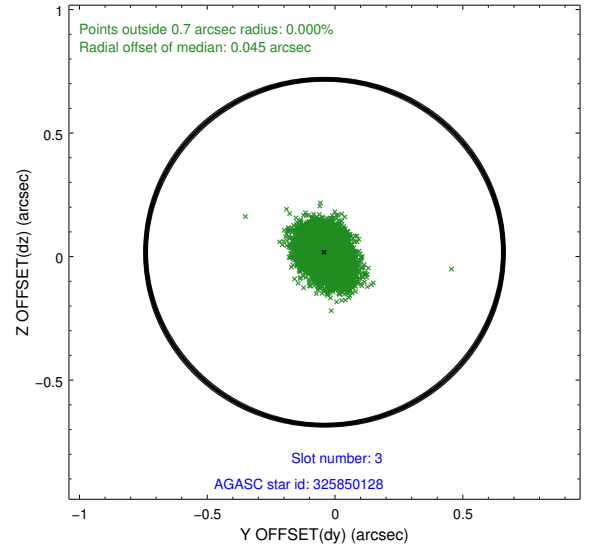
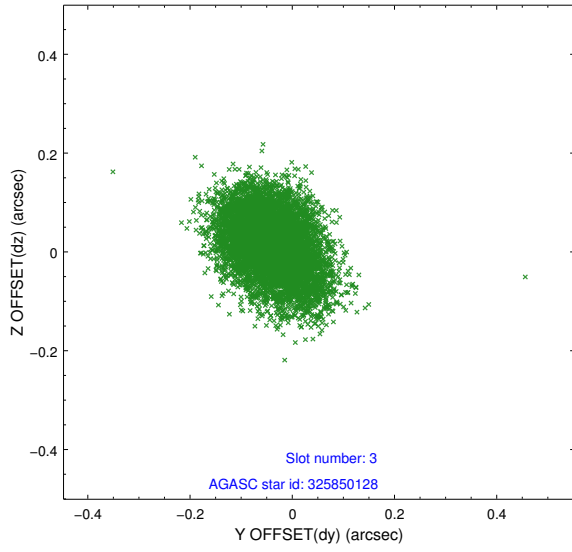


Slot Statistics

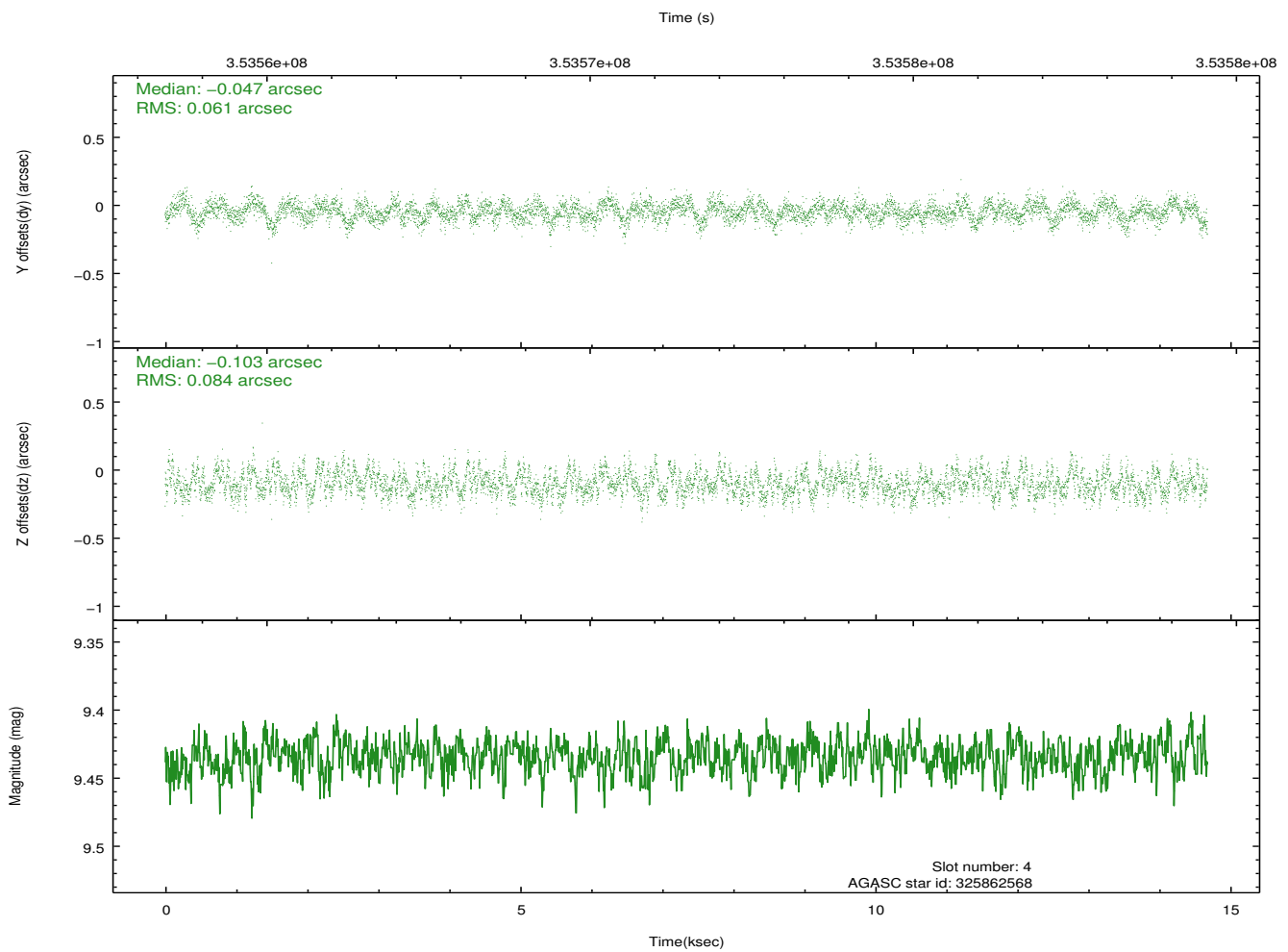
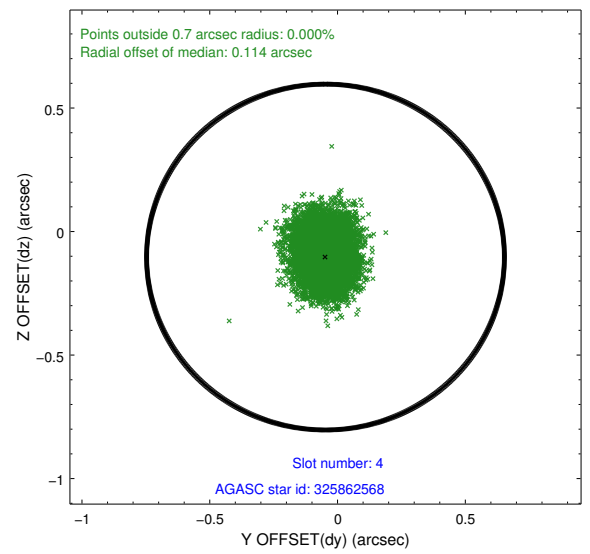
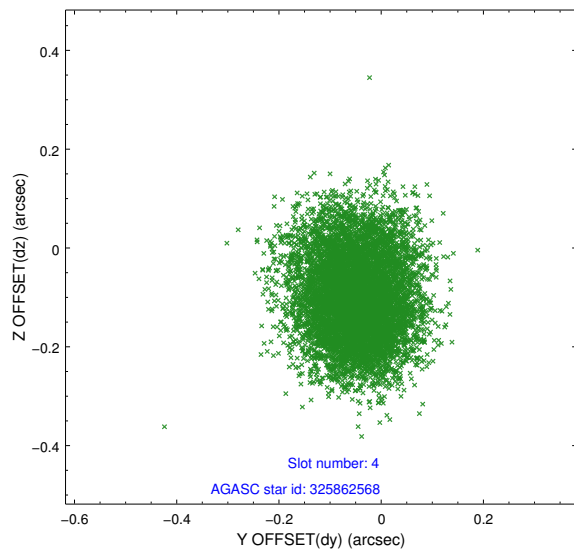
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.08	3581	0.078	-0.021	0.006	0.010	0.000000	0.000000	929.94	-1731.08
1	FID	ACIS-S-5	7.11	3581	-0.142	0.056	0.006	0.011	0.000000	0.000000	-1819.12	166.19
2	FID	ACIS-S-6	7.21	3581	0.043	-0.023	0.007	0.011	0.000000	0.000000	395.10	810.45
3	GUIDE	325850128	8.91	7125	-0.041	0.018	0.083	0.136	128.006537	33.170352	194.47	-691.78
4	GUIDE	325862568	9.43	7152	-0.047	-0.103	0.111	0.179	127.808098	33.641064	-1084.28	-1953.62
5	GUIDE	325848528	9.36	7142	0.001	-0.107	0.132	0.211	128.890961	32.792079	273.04	2304.84
6	GUIDE	325859552	9.63	7151	0.076	0.062	0.130	0.203	128.318446	33.774353	-2171.24	-776.43
7	GUIDE	325854560	9.37	7151	0.012	0.135	0.108	0.176	128.723716	32.582536	1172.38	2175.84

2.4 Star Slots

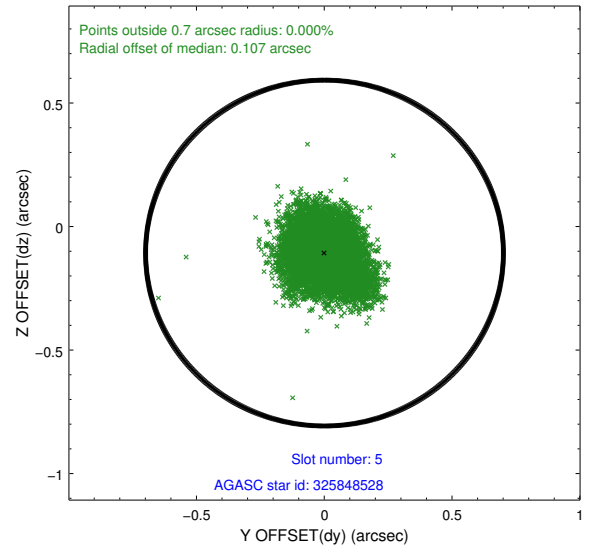
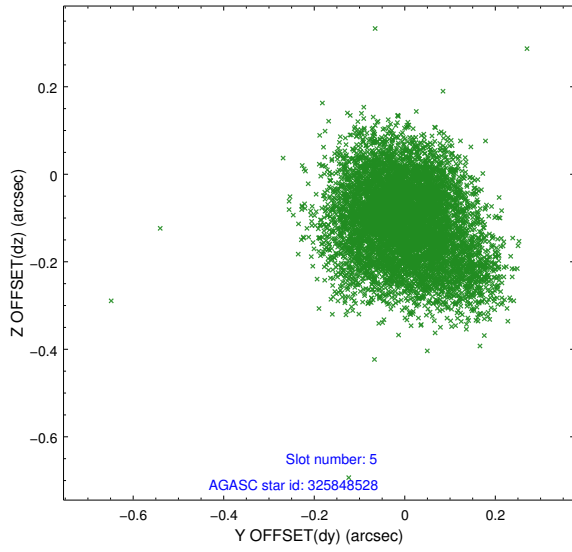
2.4.1 Slot 3



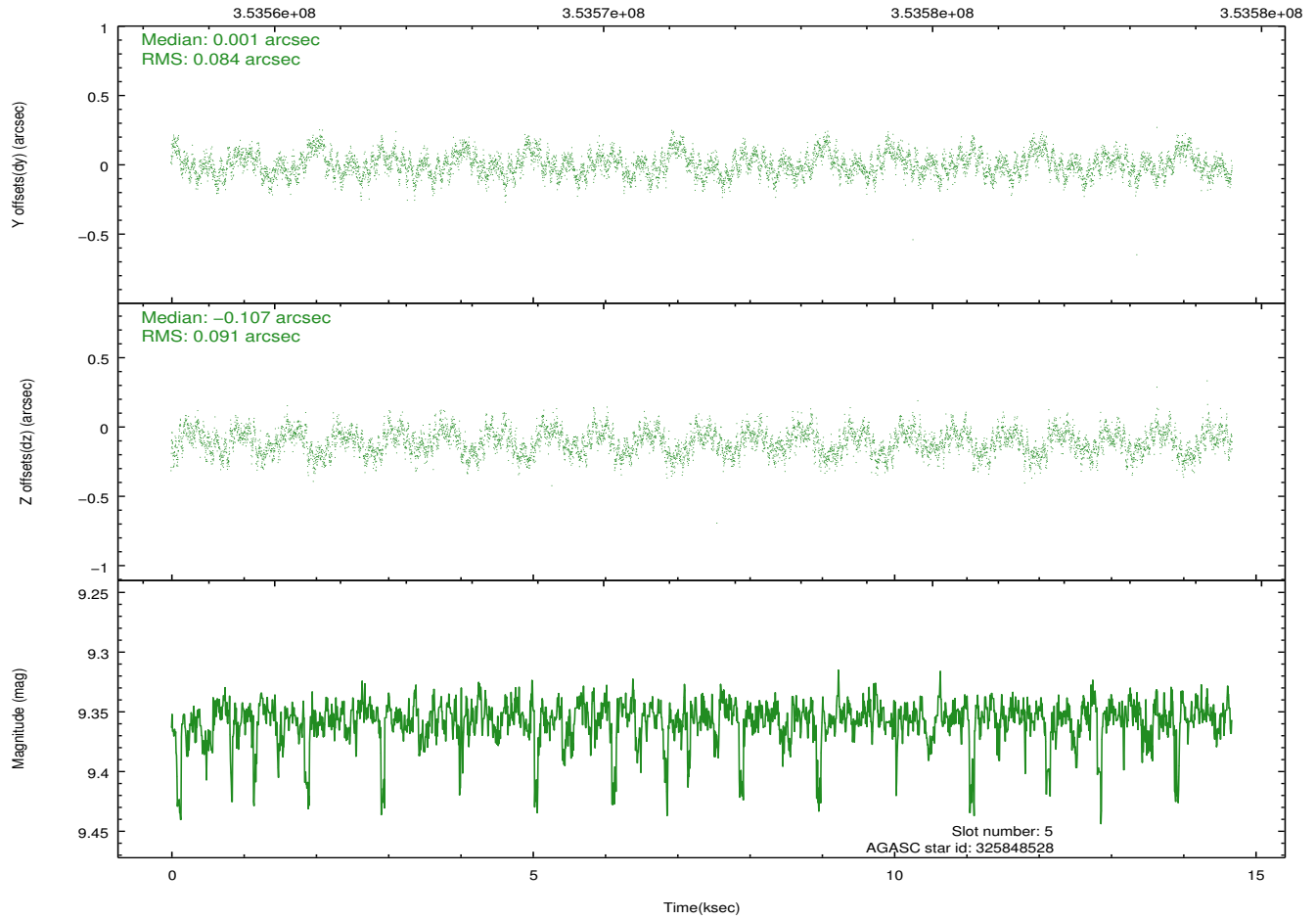
2.4.2 Slot 4



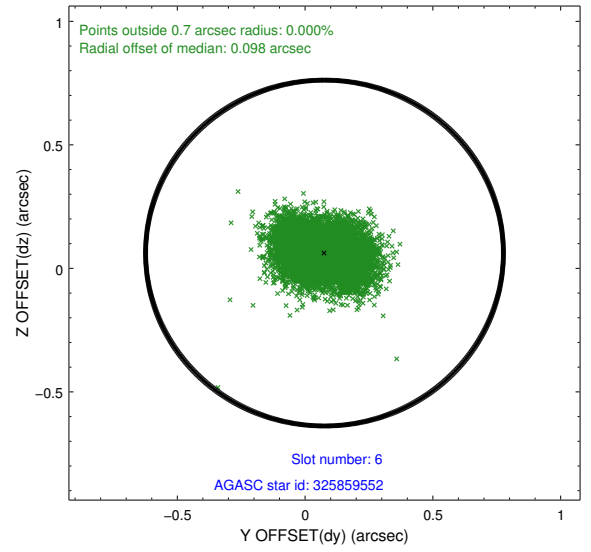
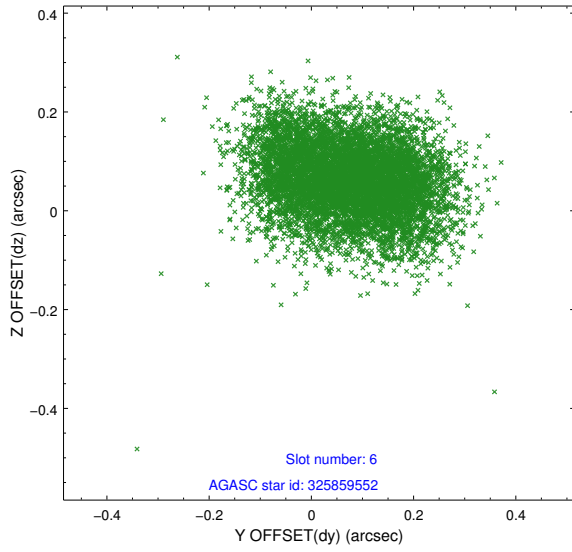
2.4.3 Slot 5



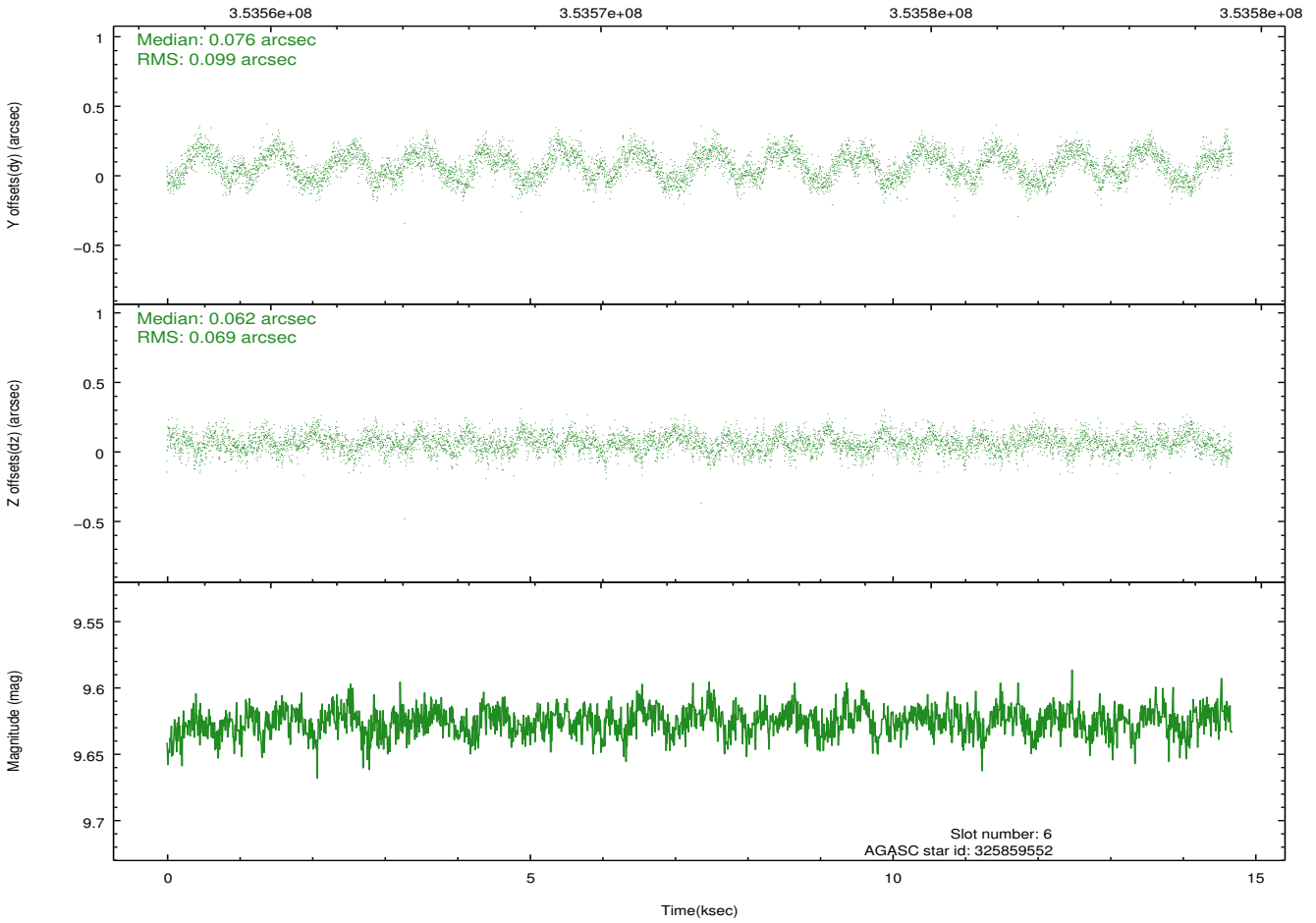
Time (s)



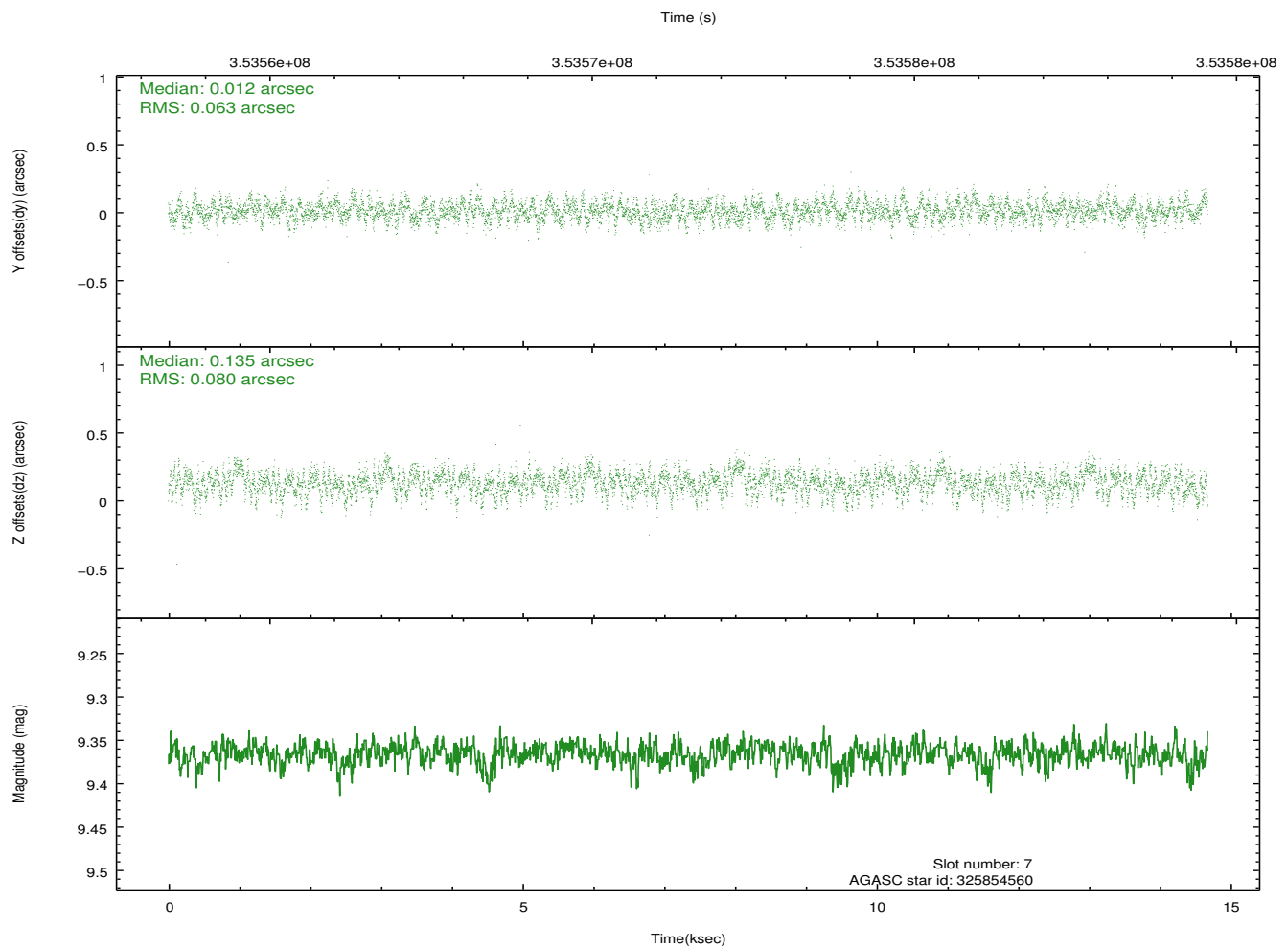
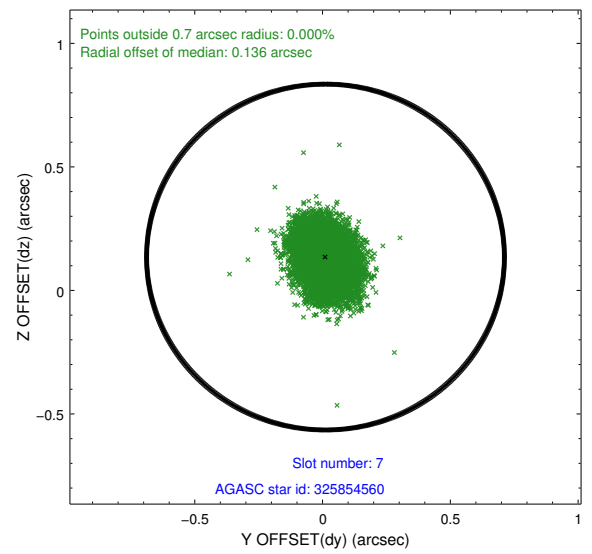
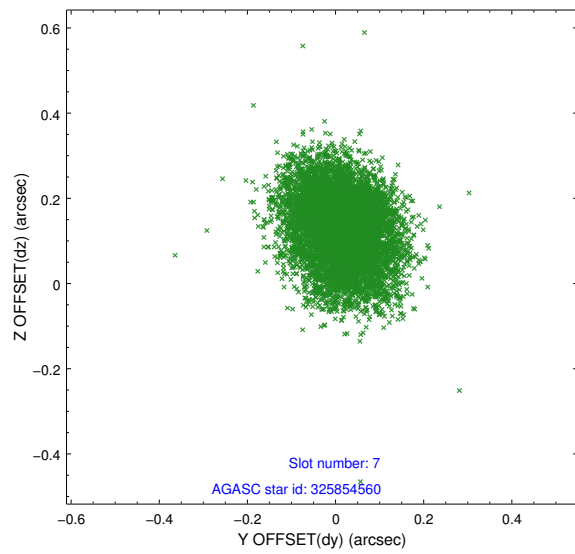
2.4.4 Slot 6



Time (s)

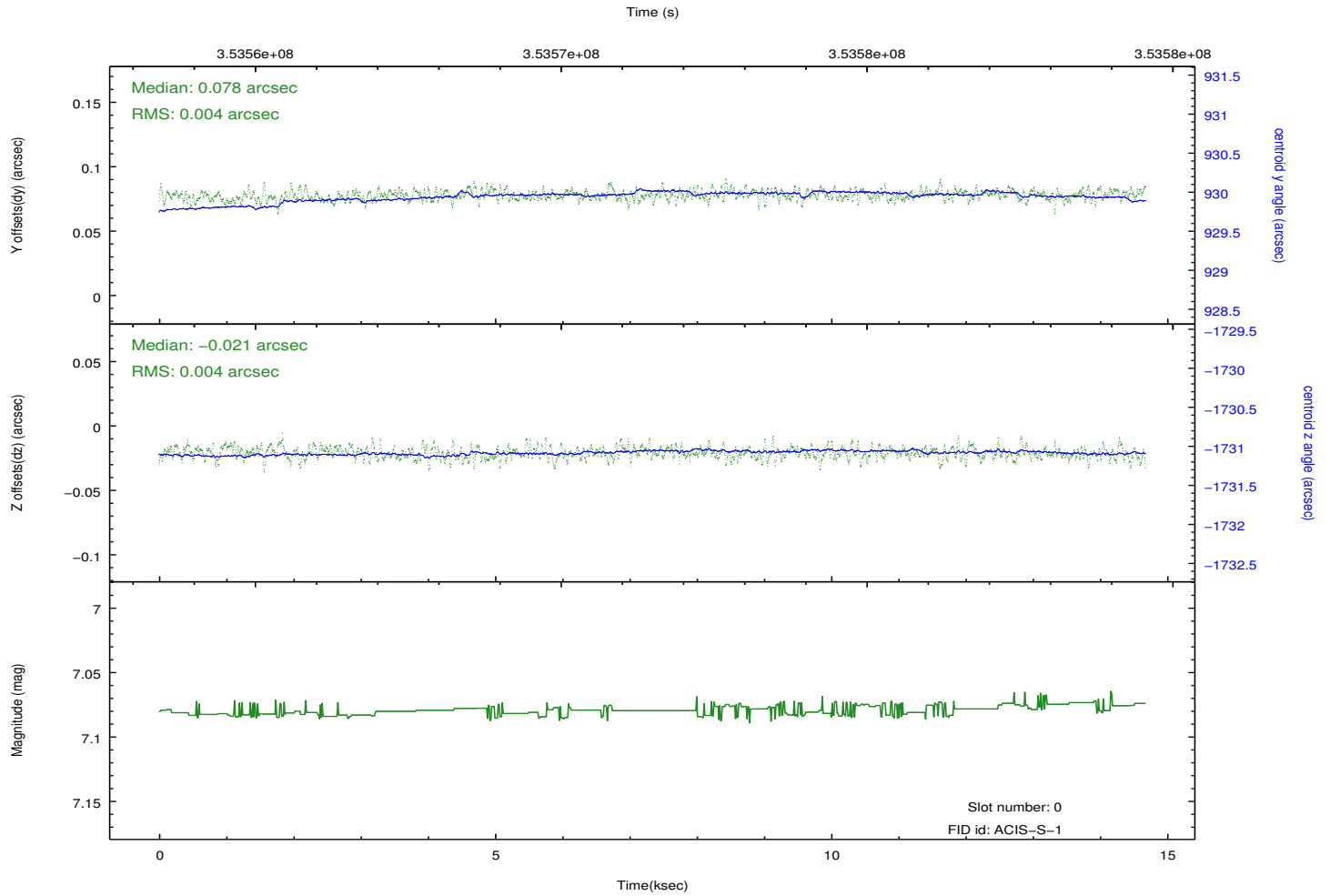
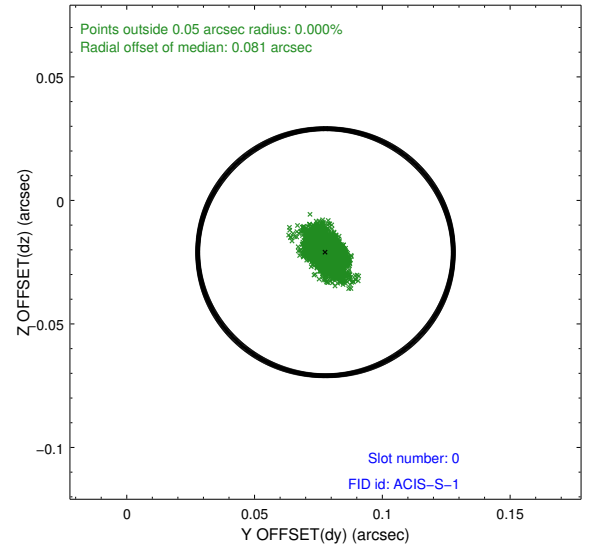
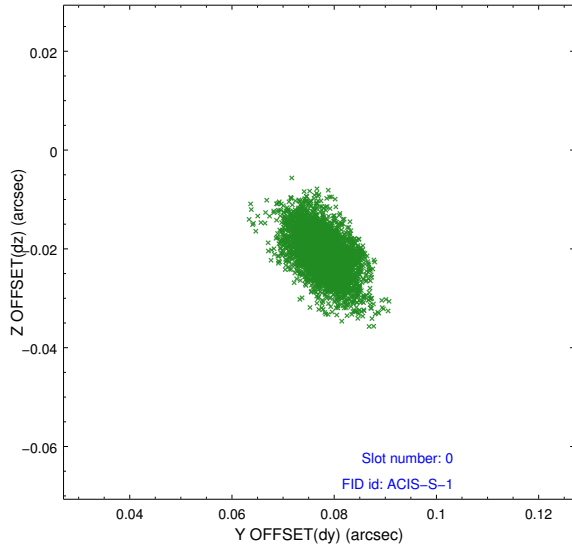


2.4.5 Slot 7

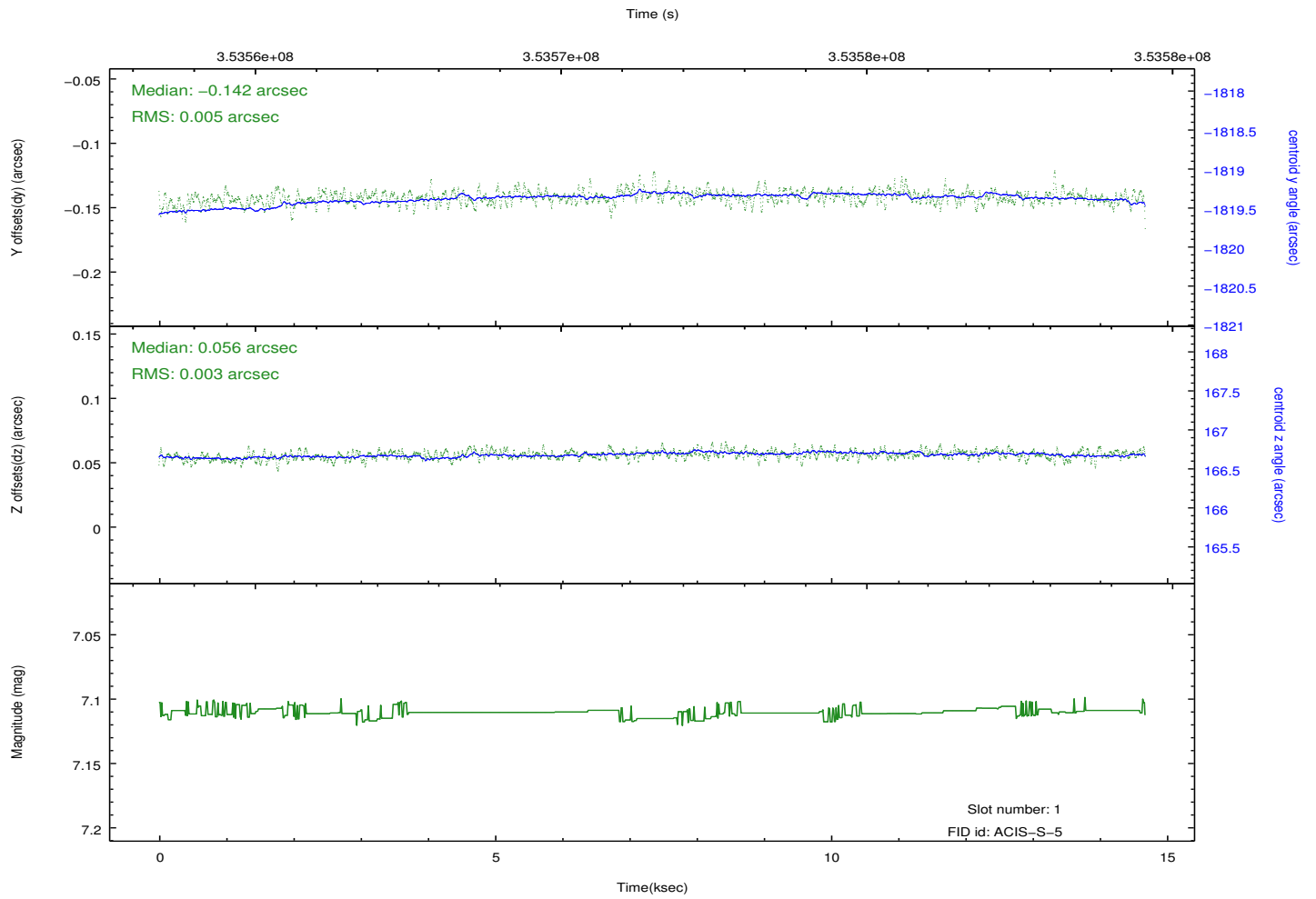
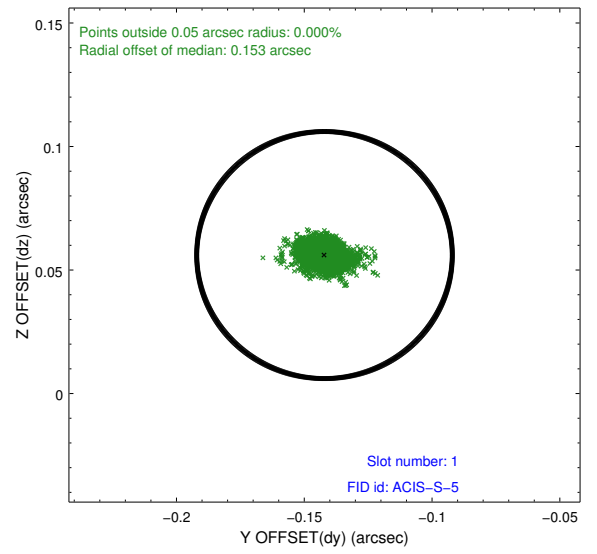
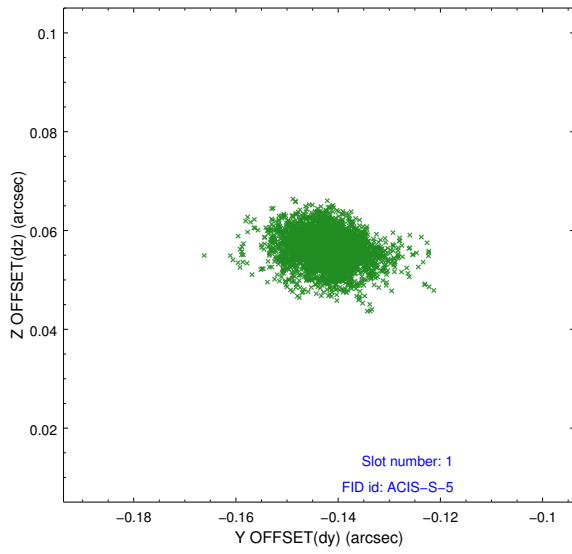


2.5 FID Slots

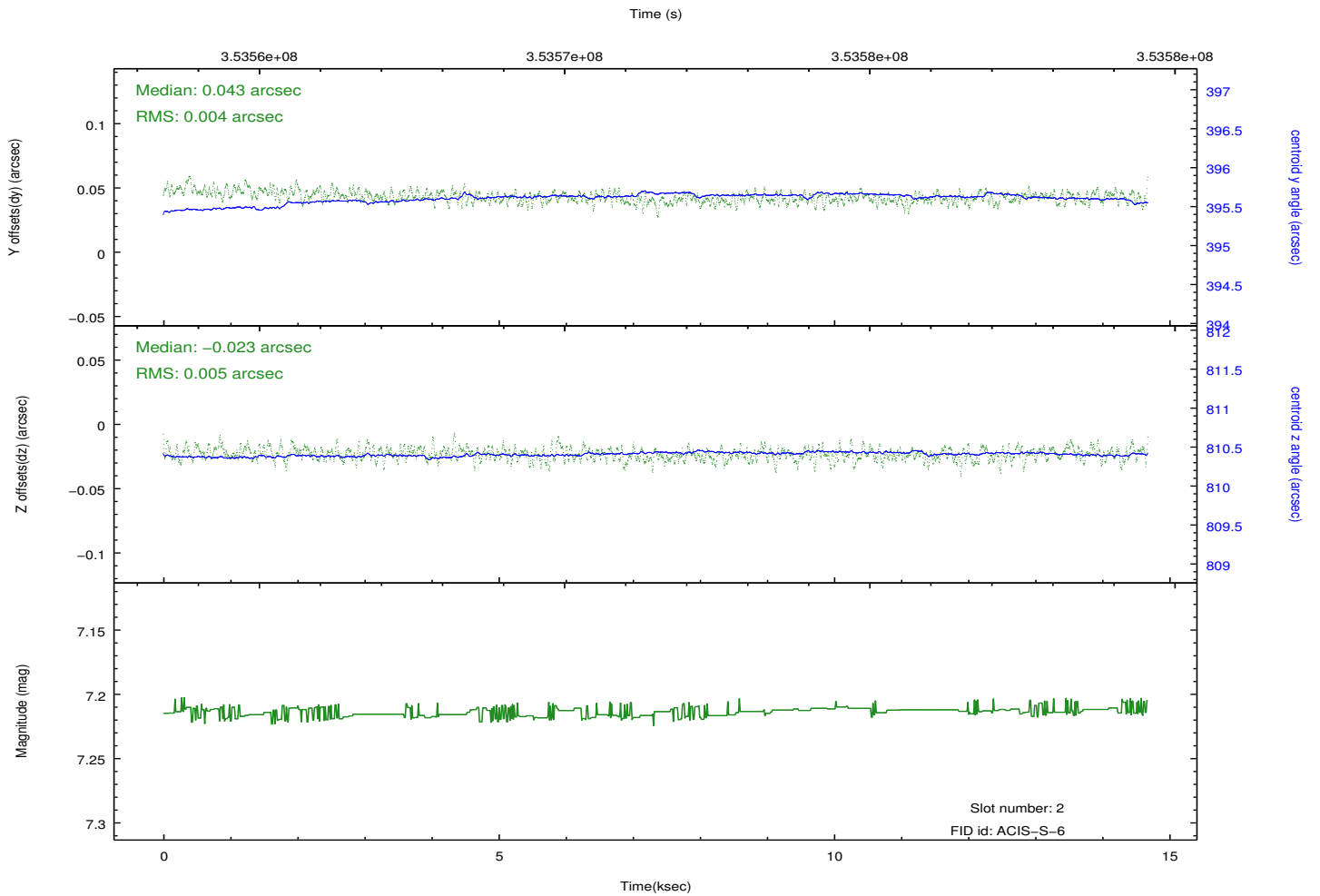
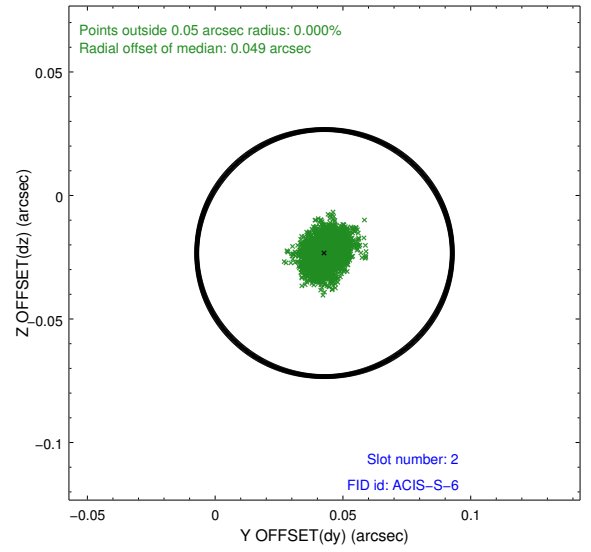
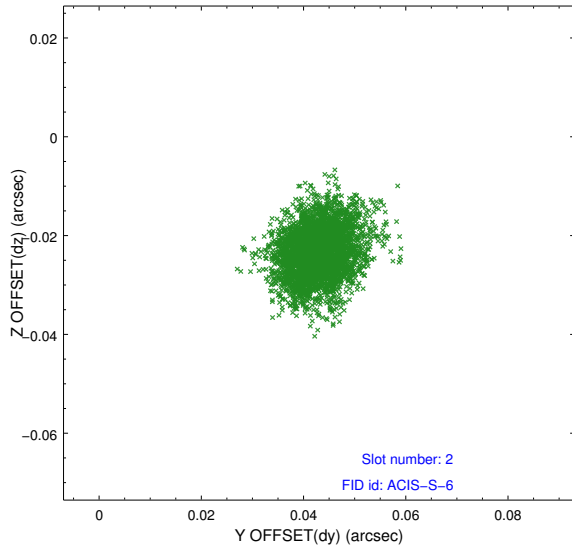
2.5.1 Slot 0



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)	2012.06.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	14.6719999

A.2 Comments