

V&V Reference Report

L2 ASCDS Version : 10.3.3

Observation 16344 - L2 Version 1
Chandra X-Ray Center

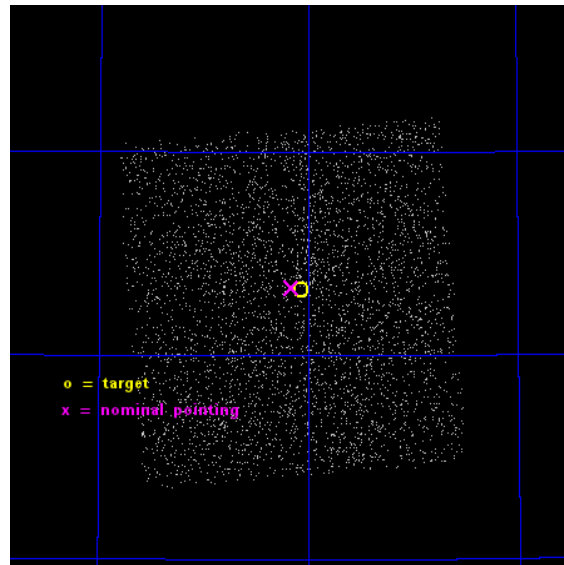
L2 Processing Date : Mar 18 2015

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1 Front

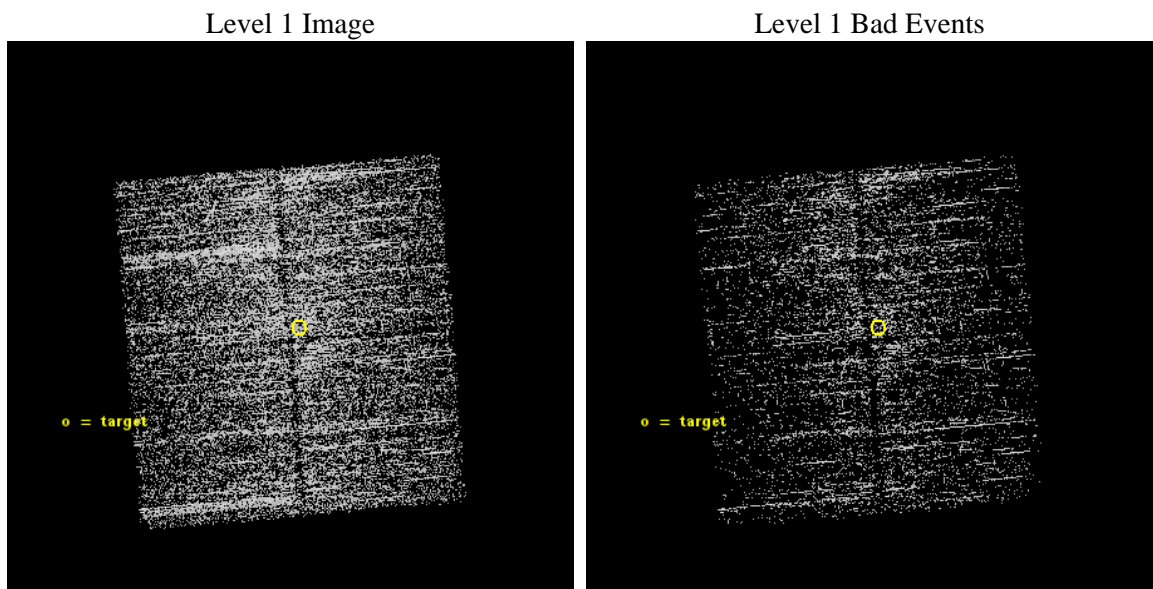
seq_num	200966	Sequence number
obs_id	16344	Observation id
title	Portrait of a Giant HII Bubble: Star Formation in the Northern Cloudlet of the Cepheus Loop (GTO part)	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	BRC2	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	1.019583	Observer's specified target RA [deg]
dec_targ	68.553611	Observer's specified target Dec [deg]
ra_nom	1.0408620256883	Nominal RA [deg]
dec_nom	68.555570718221	Nominal Dec [deg]
roll_nom	355.22811829862	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1865.8610521555	Sum of GTIs [s]
livetime	1841.4822038822	Livetime [s]
ontime0	1865.7379322052	Sum of GTIs [s]
ontime1	1865.7789721489	Sum of GTIs [s]
ontime2	1865.8200122118	Sum of GTIs [s]
ontime3	1865.8610521555	Sum of GTIs [s]
l2events	4519	Number of level 2 events



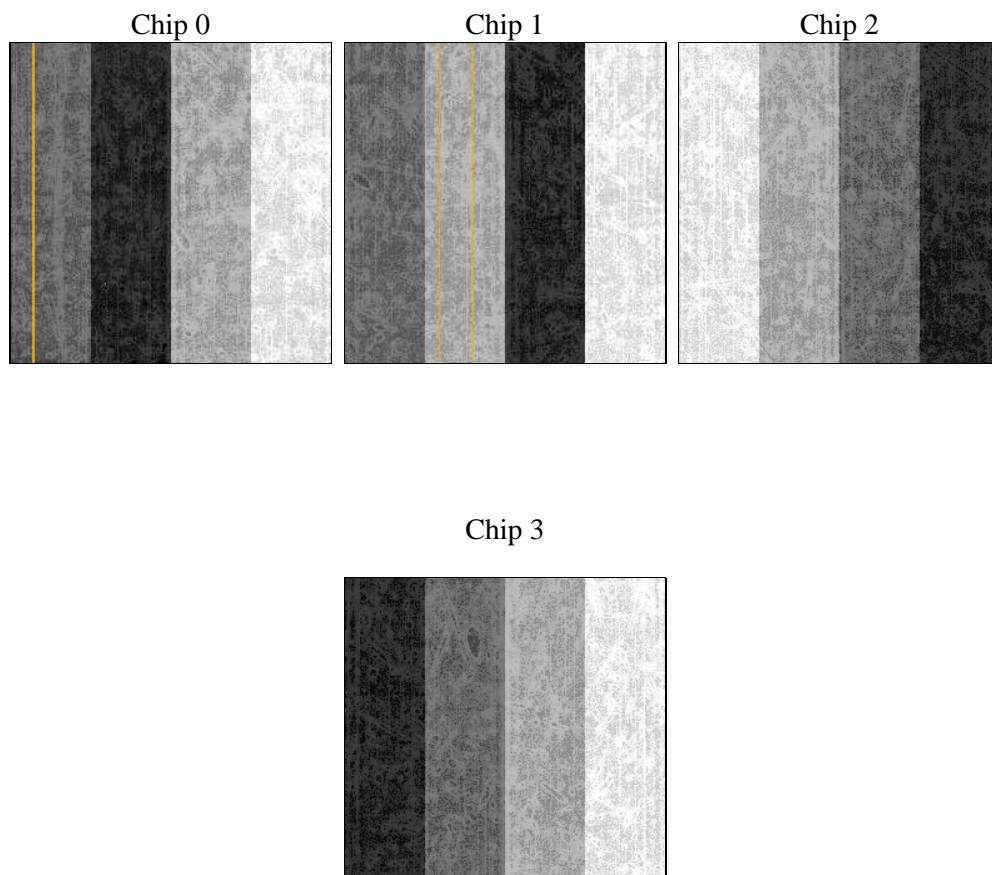
2 OBI

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	10.3.3	Processing system revision	ontime	1865.8610521555	Sum of GTIs [s]
caldsver	4.6.7	 	ontime0	1865.7379322052	Sum of GTIs [s]
date	2015-03-18T04:29:12	Date and time of file creation	ontime1	1865.7789721489	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	1865.8200122118	Sum of GTIs [s]
			ontime3	1865.8610521555	Sum of GTIs [s]
			l1events	54607	Number of level 1 events

2.1.4 Events

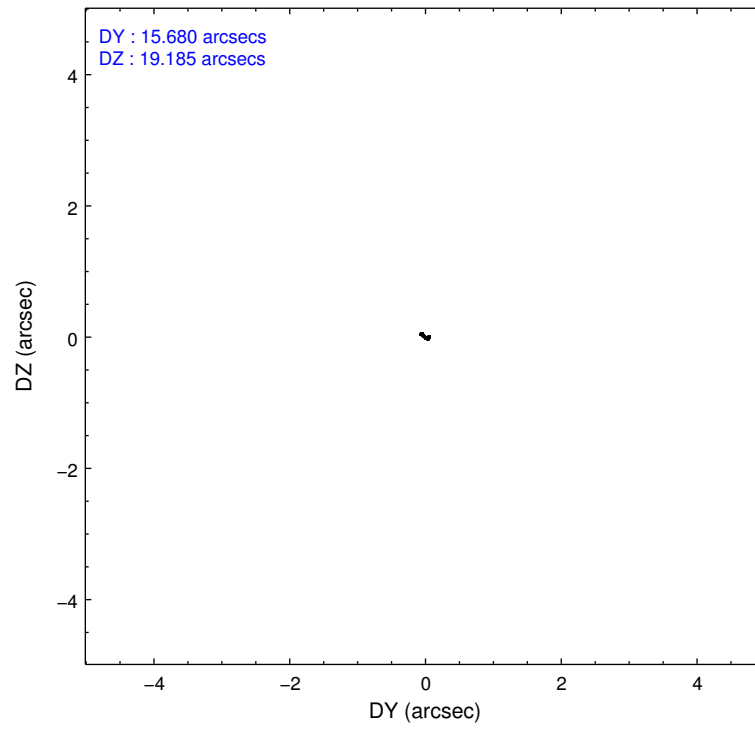
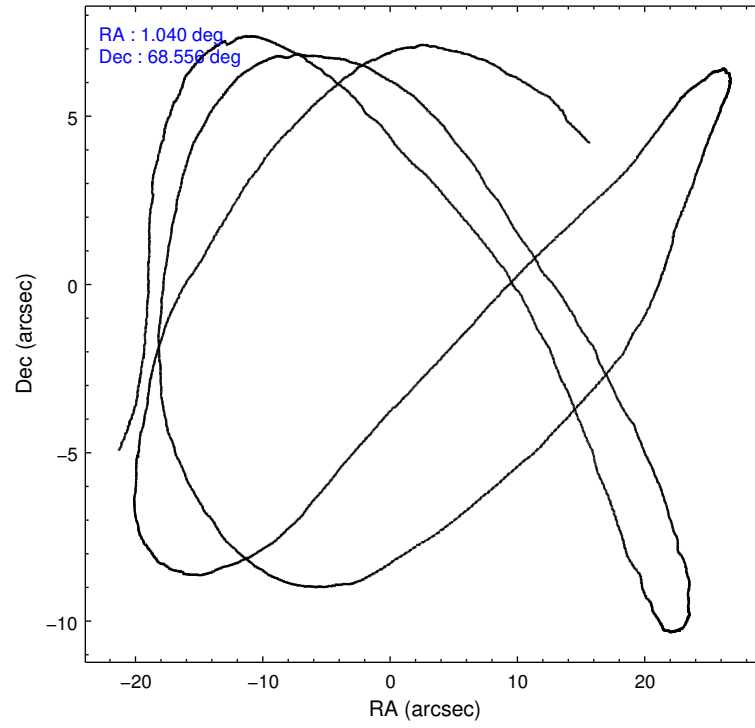
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	11852	12430	15902	14423
rejected events	9565	10932	13005	13051
rejected %	80%	87%	81%	90%

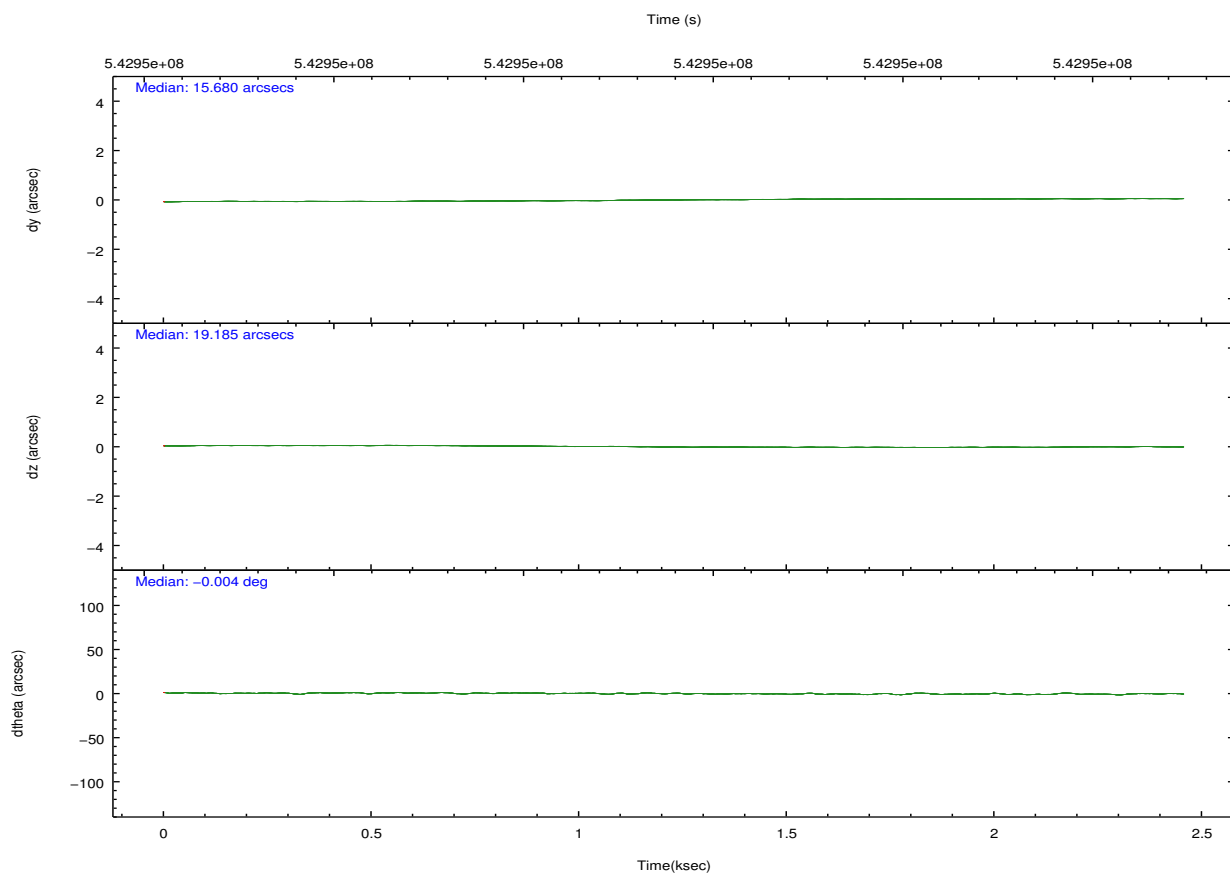
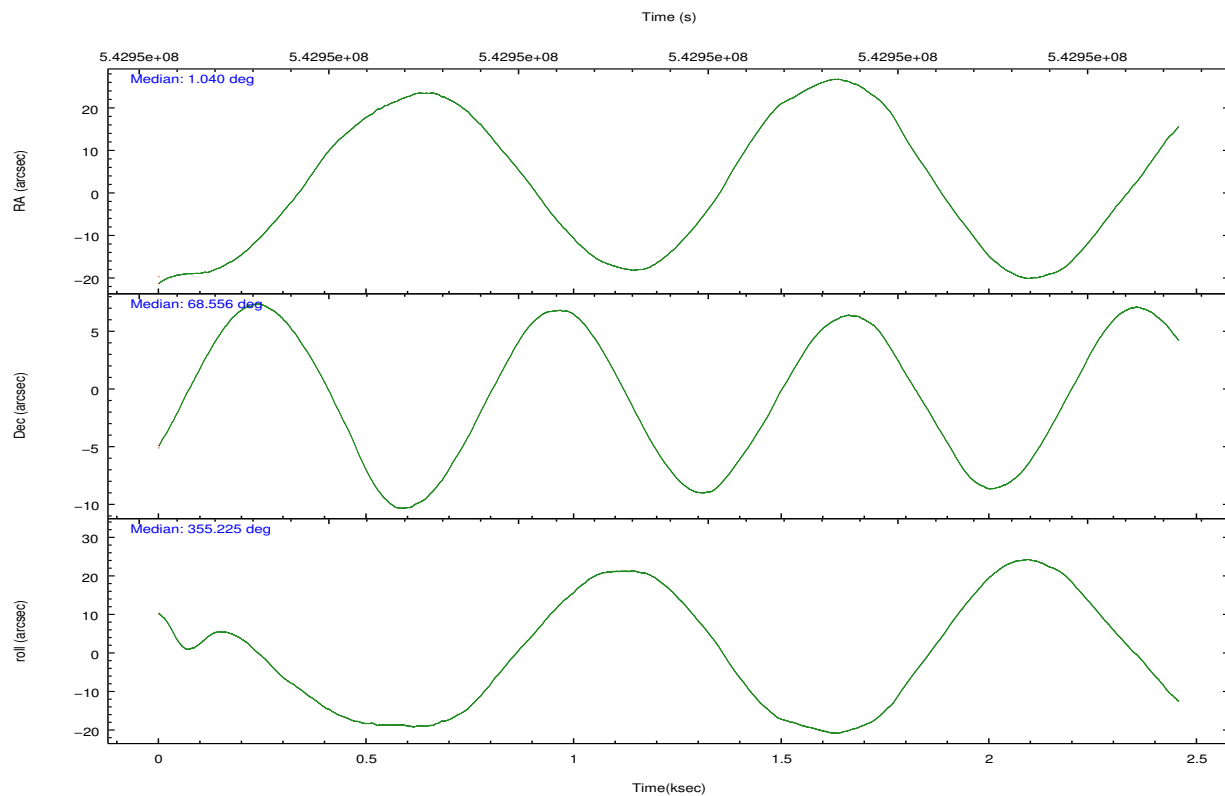
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	1258	711	1560	658
	10%	5%	9%	4%
grade 1 events	13	7	15	7
	0%	0%	0%	0%
grade 2 events	674	364	746	316
	5%	2%	4%	2%
grade 3 events	116	122	92	124
	0%	0%	0%	0%
grade 4 events	103	102	307	98
	0%	0%	1%	0%
grade 5 events	315	327	288	367
	2%	2%	1%	2%
grade 6 events	172	221	237	201
	1%	1%	1%	1%
grade 7 events	9201	10576	12657	12652
	77%	85%	79%	87%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	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	0.973283	1.040862025688305	Subarray requested	NONE	NONE
[deg] Pointing Dec	68.543550	68.55557071822099	Alternating exposures requested	N	N
[deg] Pointing Roll	355.082341	355.2281182986239	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	542952328.184000	542951215.02727			
Observation start date	2015-03-17T04:04:21	2015-03-17T03:46:55			
[s] Observation end time (MET)	542977328.184000	542954138.32744			
Observation end date	2015-03-17T11:01:01	2015-03-17T04:35:38			
Read mode	TIMED	TIMED			

2.3 Aspect



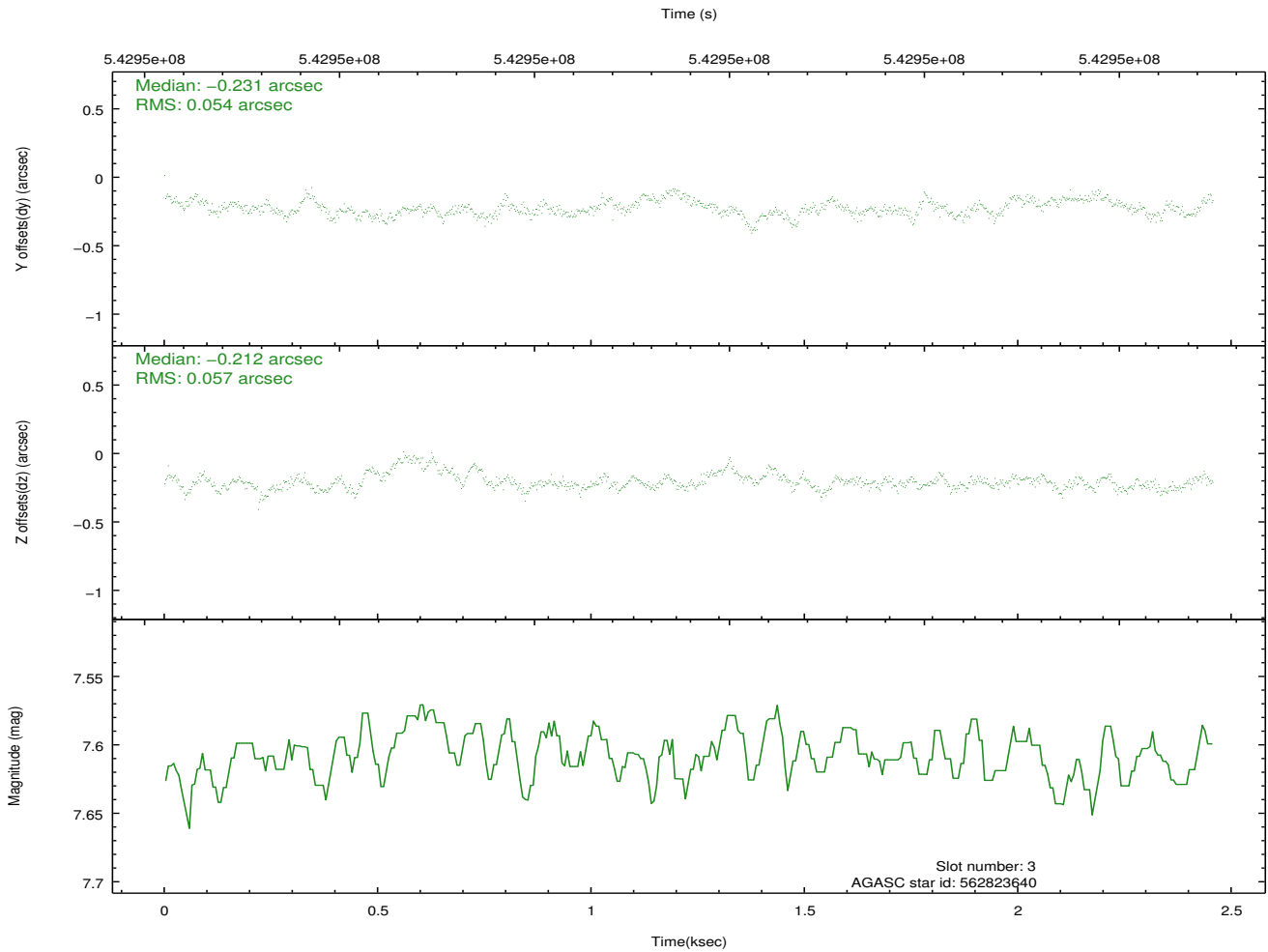
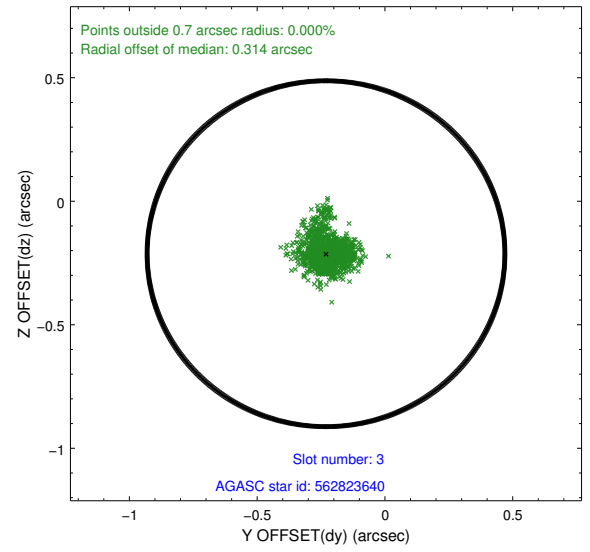
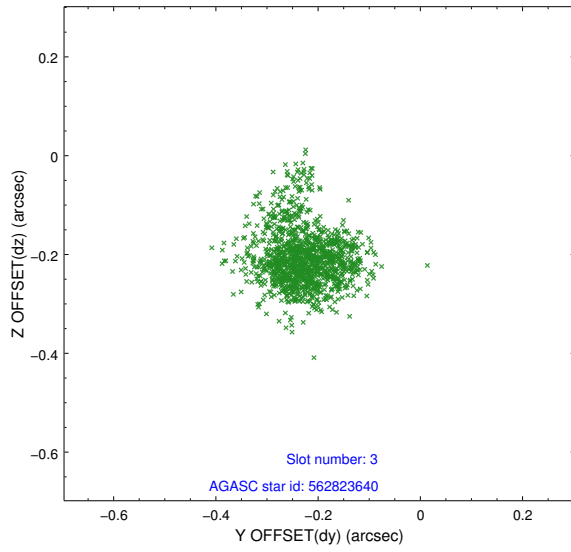


Slot Statistics

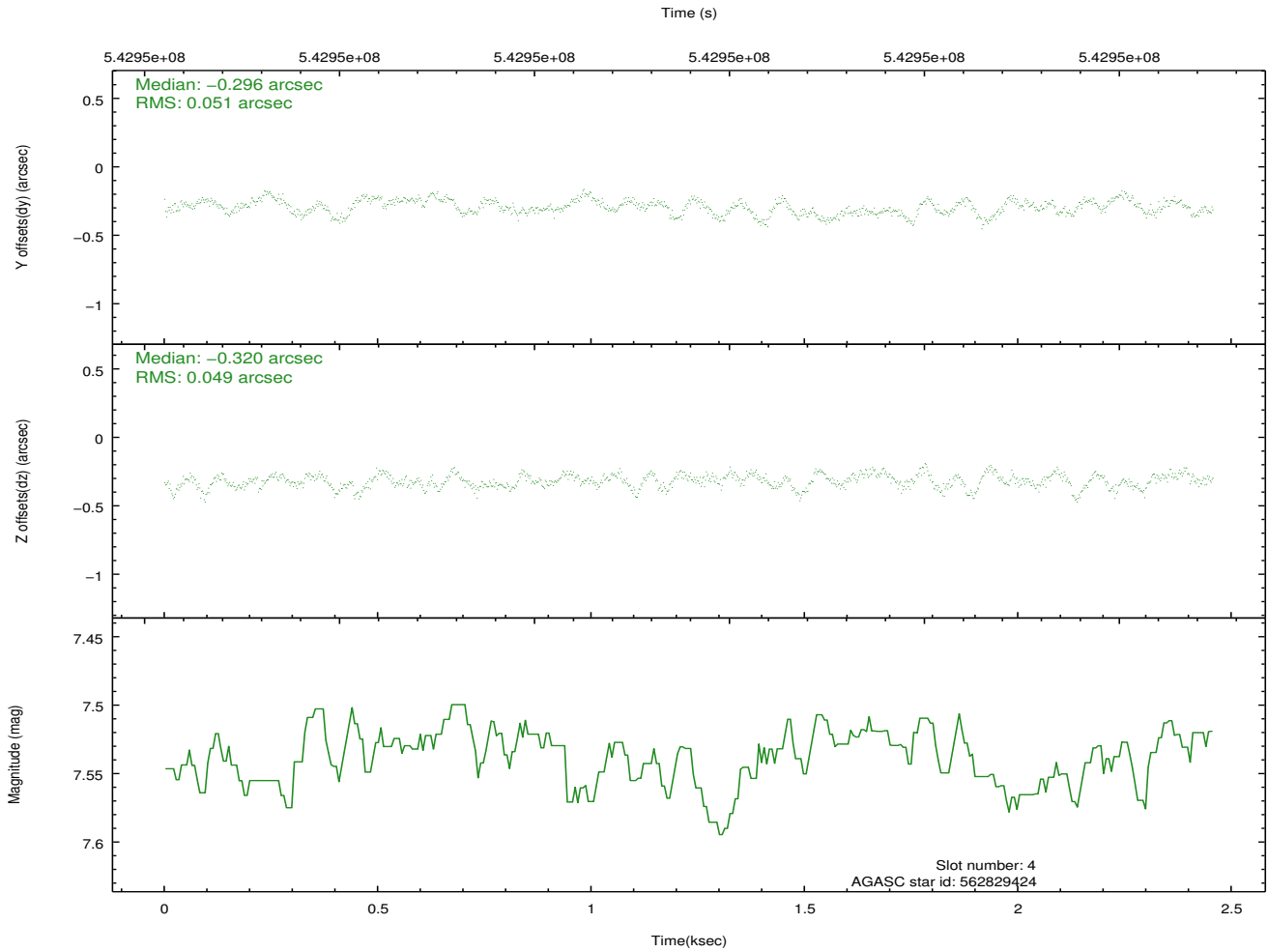
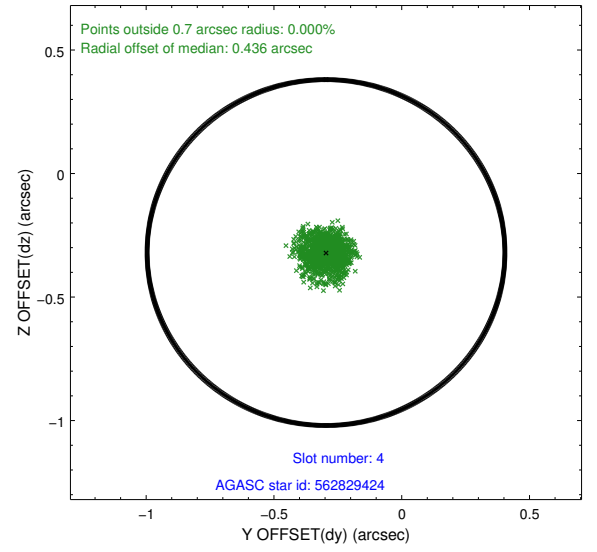
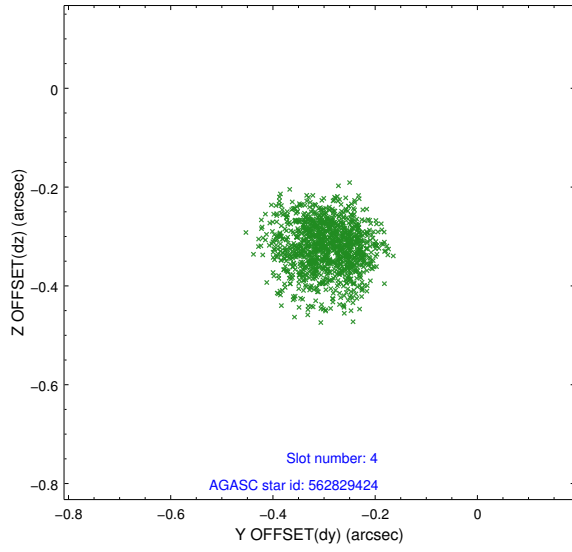
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.08	600	0.039	0.038	0.006	0.013	0.000000	0.000000	923.83	-842.84
1	FID		ACIS-I-5	7.08	599	-0.259	0.042	0.006	0.011	0.000000	0.000000	-1823.18	1053.24
2	FID		ACIS-I-6	7.08	600	0.128	-0.009	0.006	0.010	0.000000	0.000000	386.52	1700.75
3	GUIDE	used	562823640	7.61	1199	-0.231	-0.212	0.081	0.145	1.586662	68.636102	773.60	404.35
4	GUIDE	used	562829424	7.54	1198	-0.296	-0.320	0.075	0.121	1.869450	69.079499	982.91	2029.24
5	GUIDE	used	587074944	8.77	1199	0.456	0.391	0.106	0.168	359.852739	68.384106	-1430.08	-684.11
6	GUIDE	used	562827992	8.28	1199	0.116	0.243	0.082	0.134	0.239665	68.457487	-940.11	-386.74
7	GUIDE	used	562827480	9.38	1198	-0.052	-0.104	0.114	0.192	0.509079	69.209500	-797.41	2338.53

2.4 Star Slots

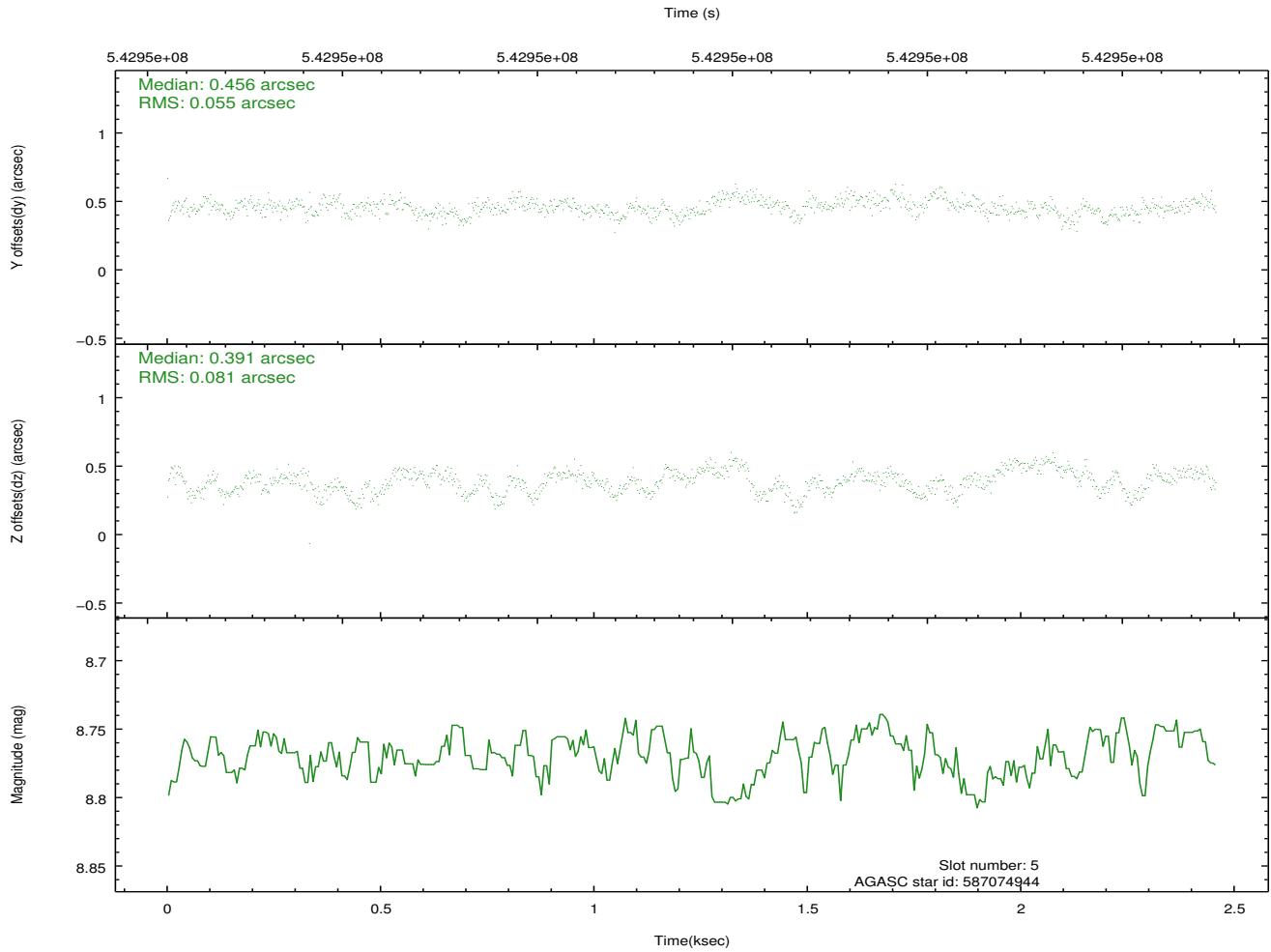
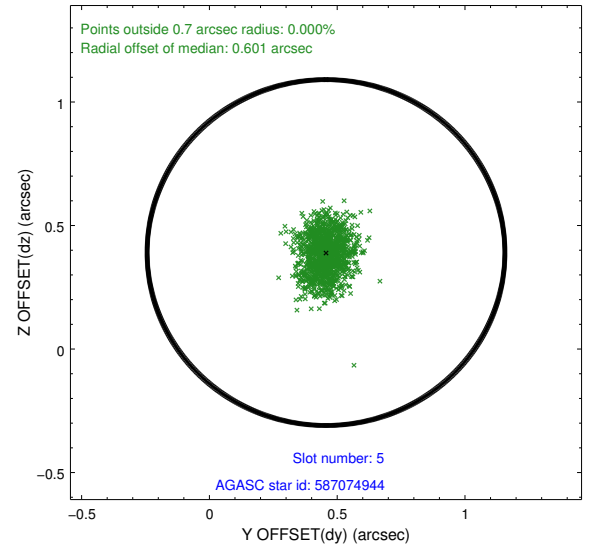
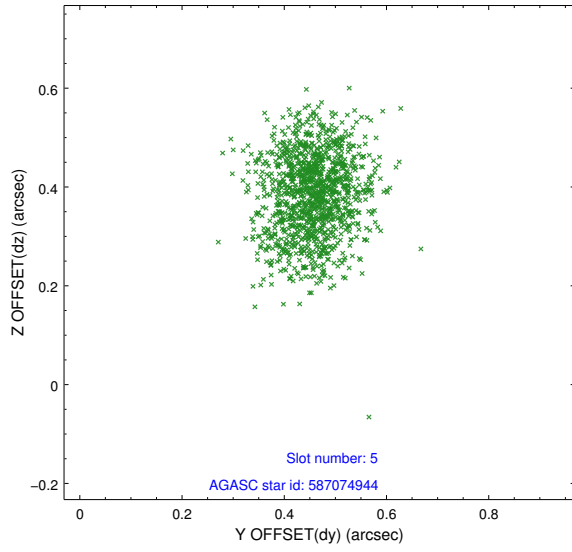
2.4.1 Slot 3



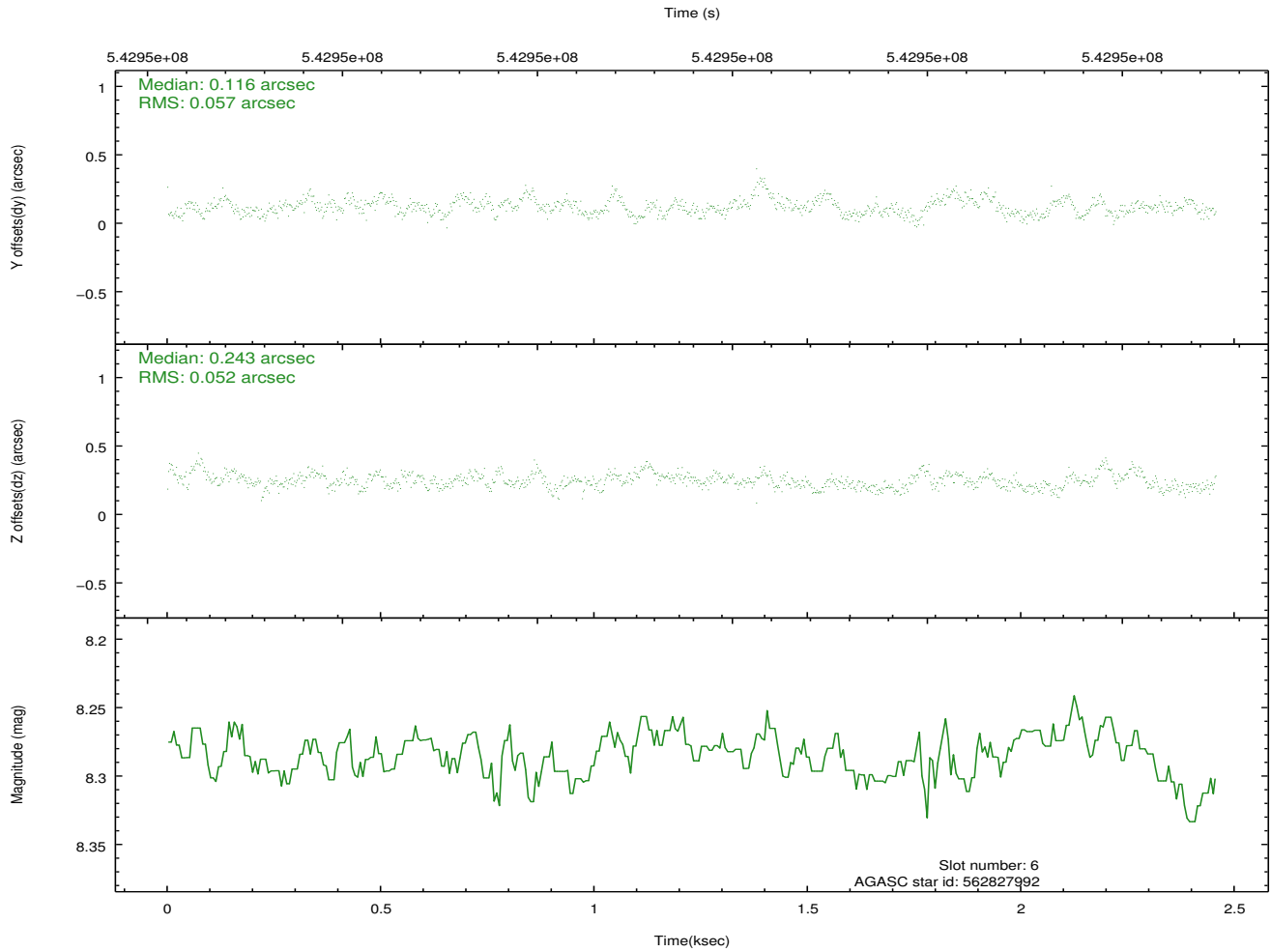
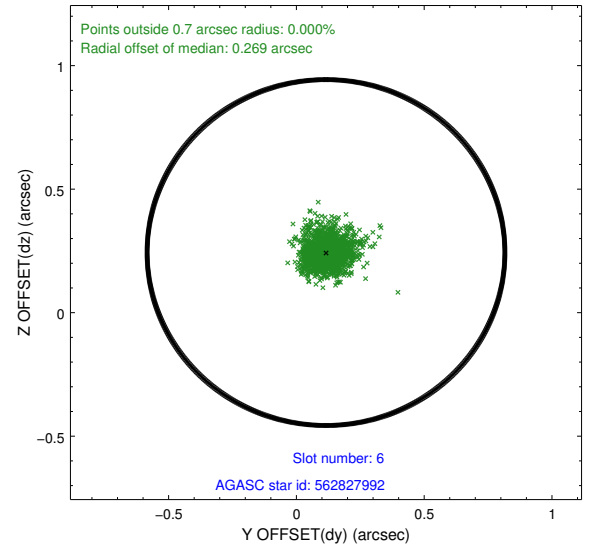
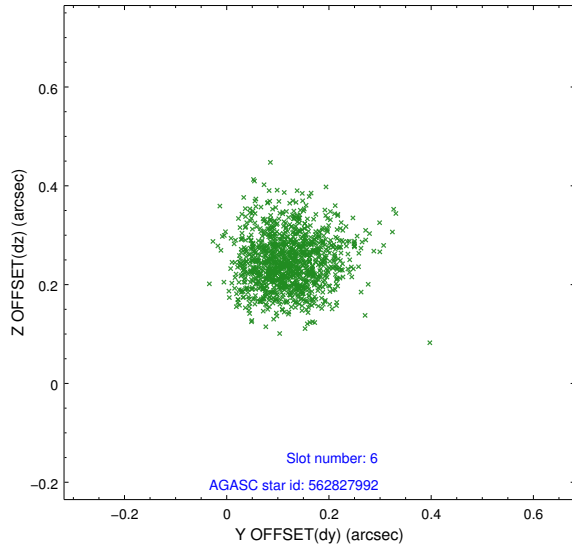
2.4.2 Slot 4



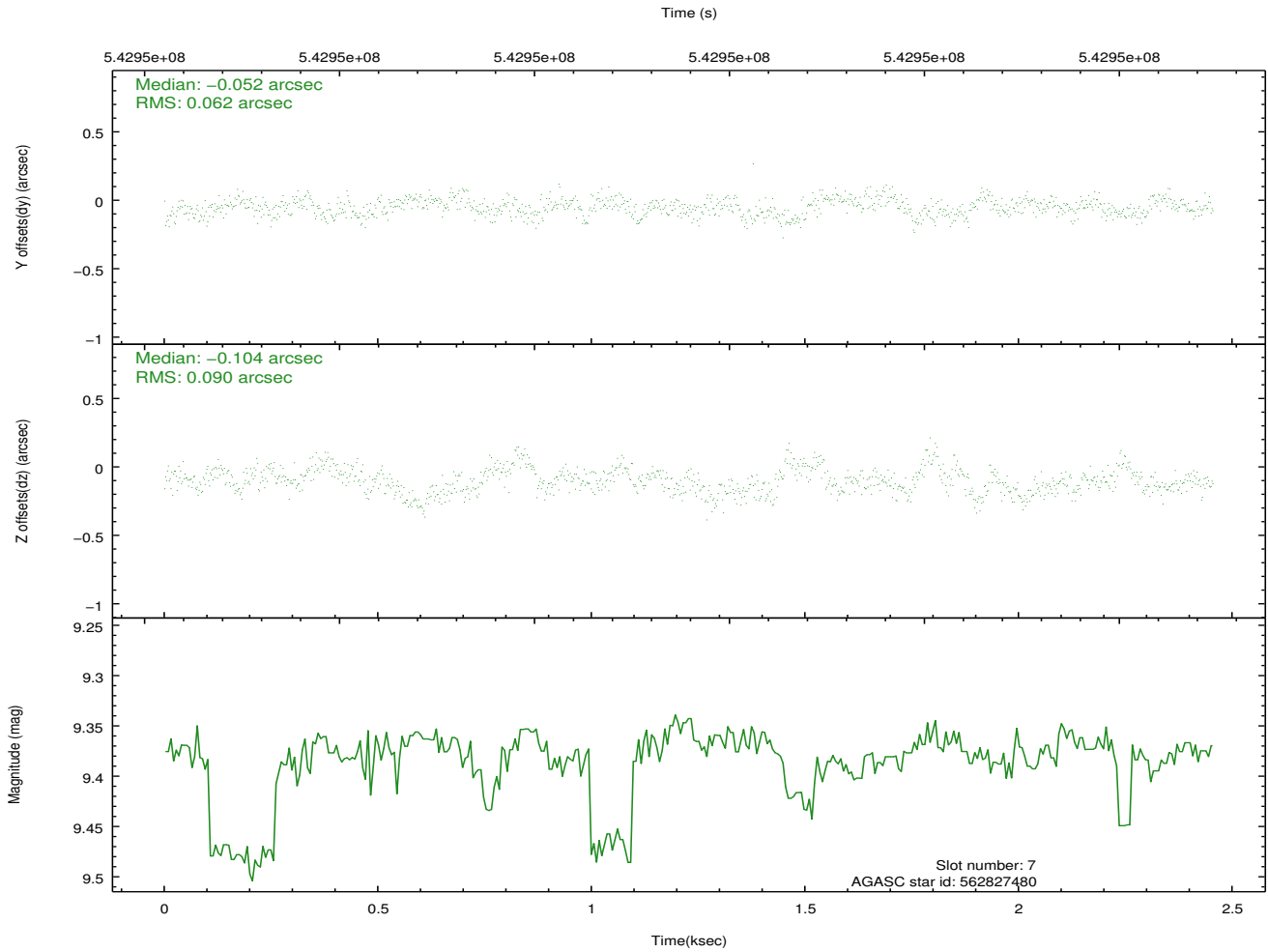
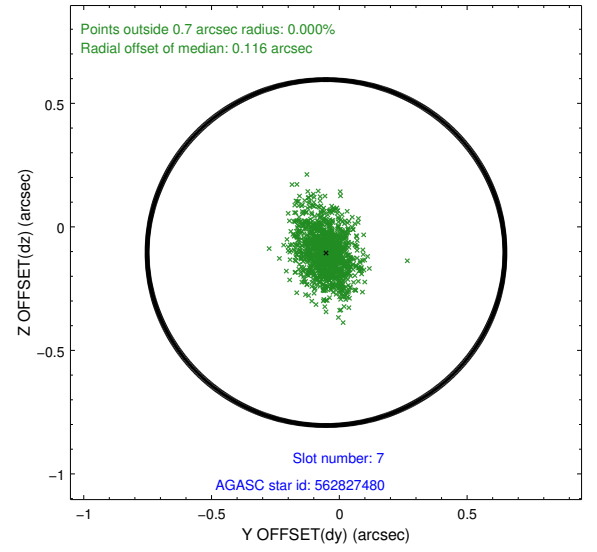
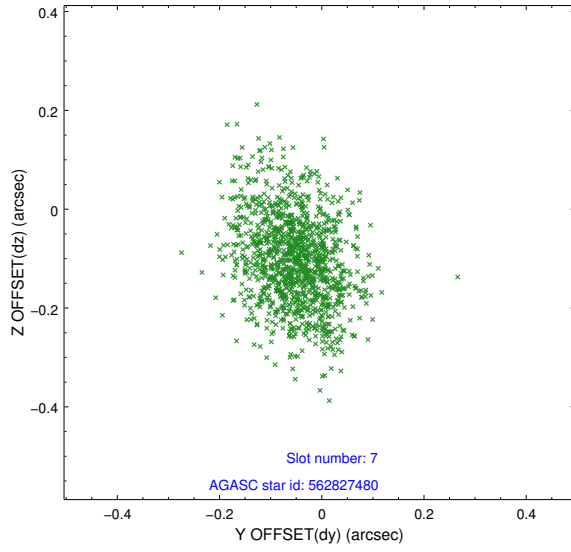
2.4.3 Slot 5



2.4.4 Slot 6

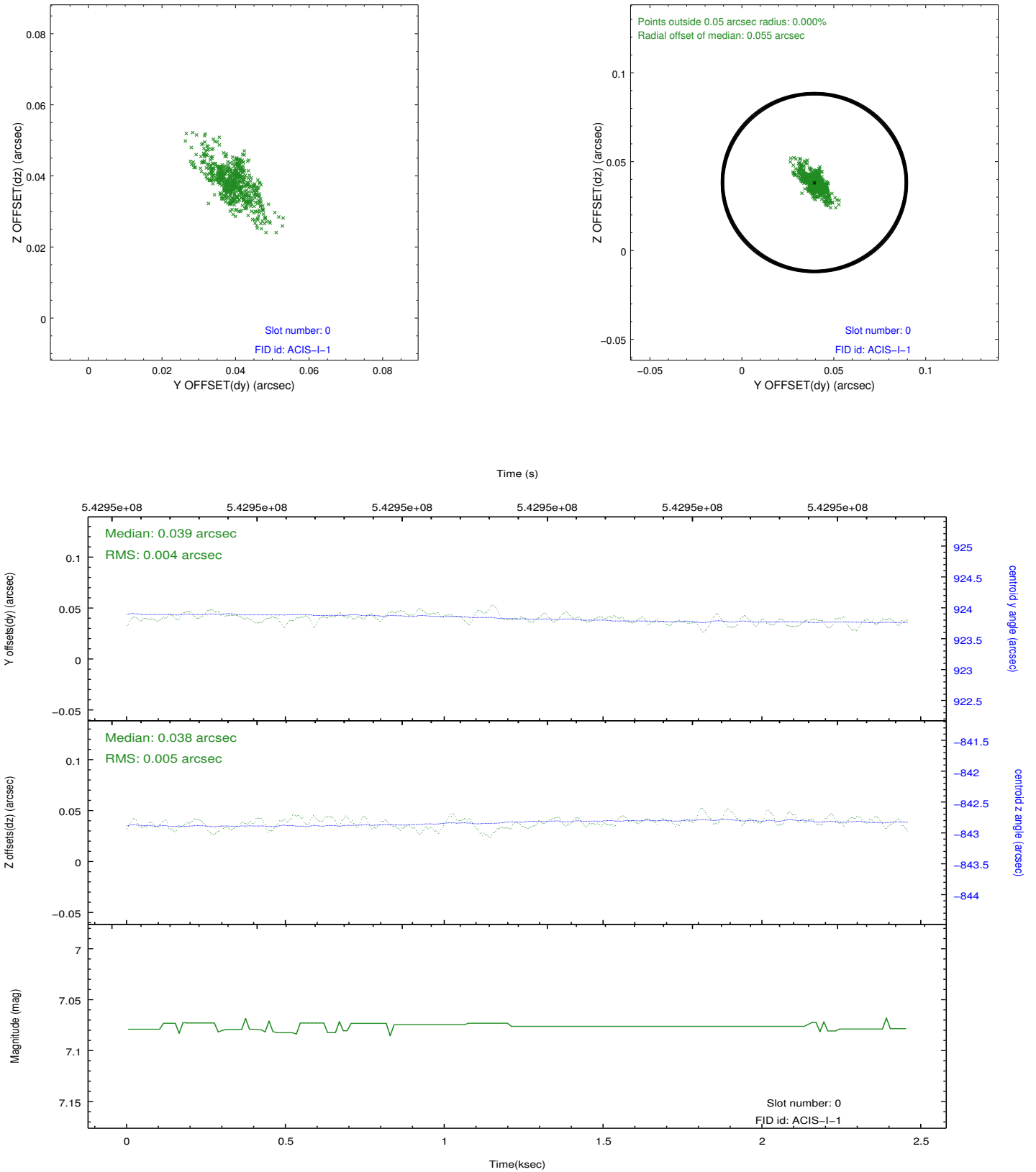


2.4.5 Slot 7

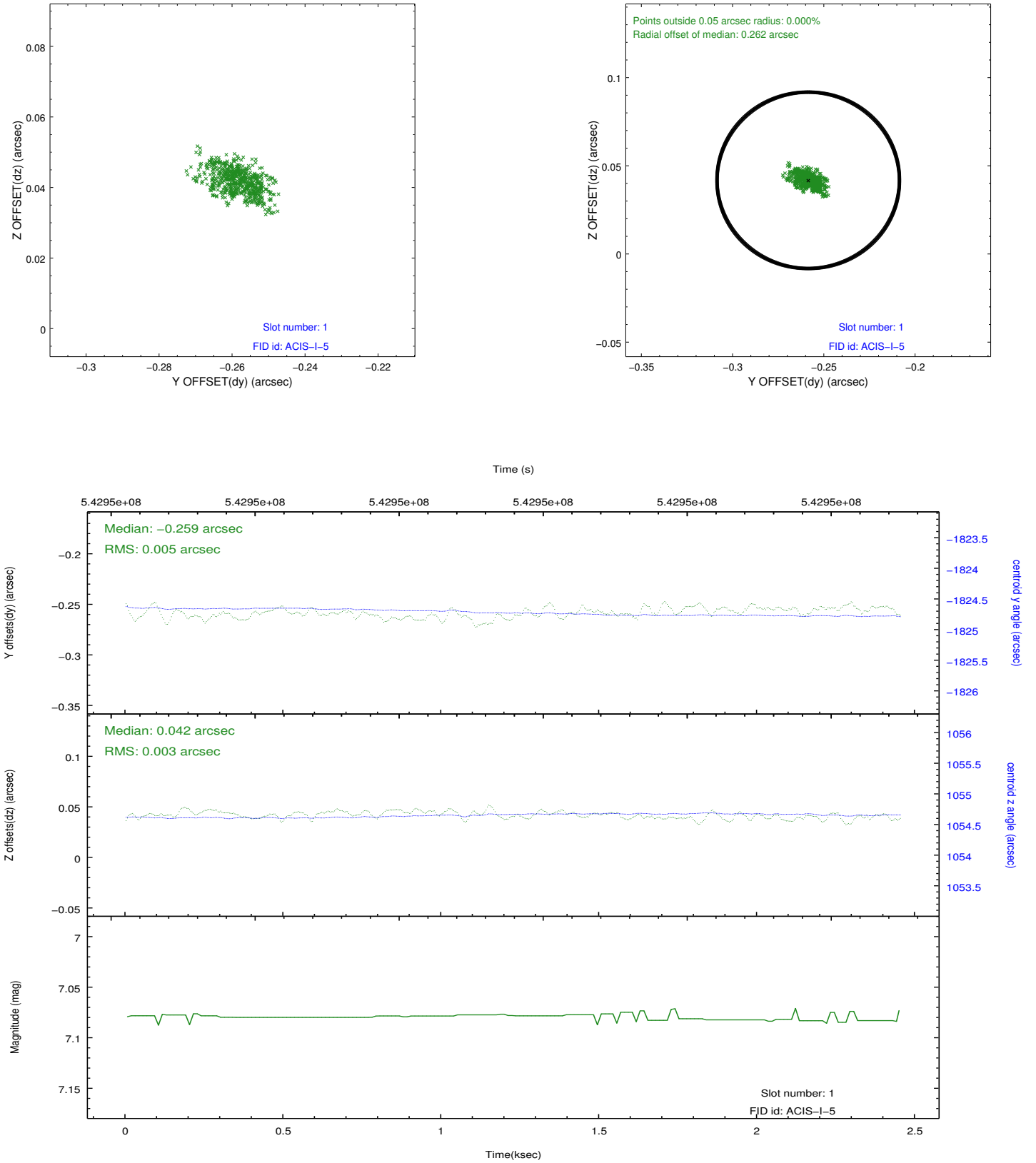


2.5 FID Slots

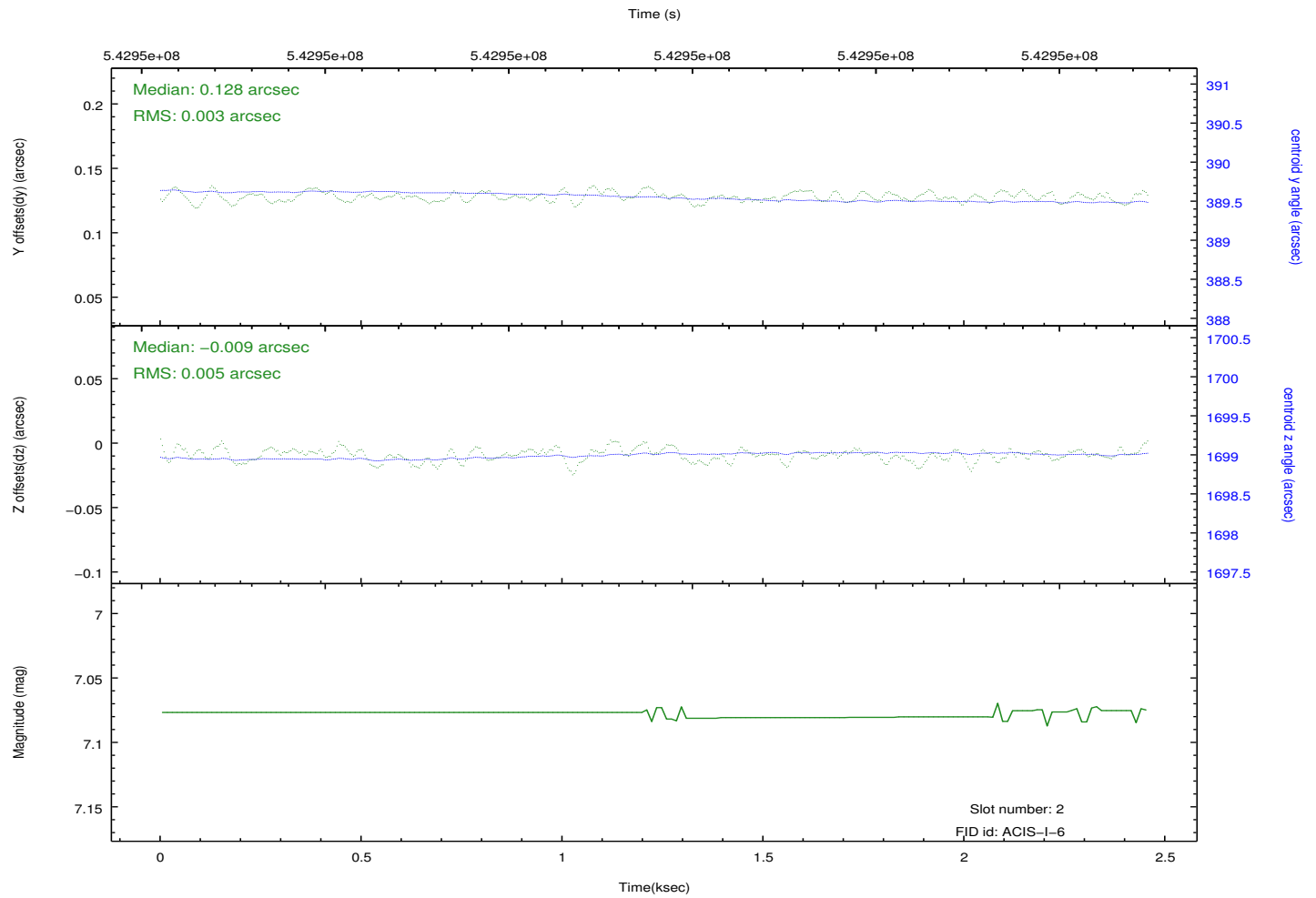
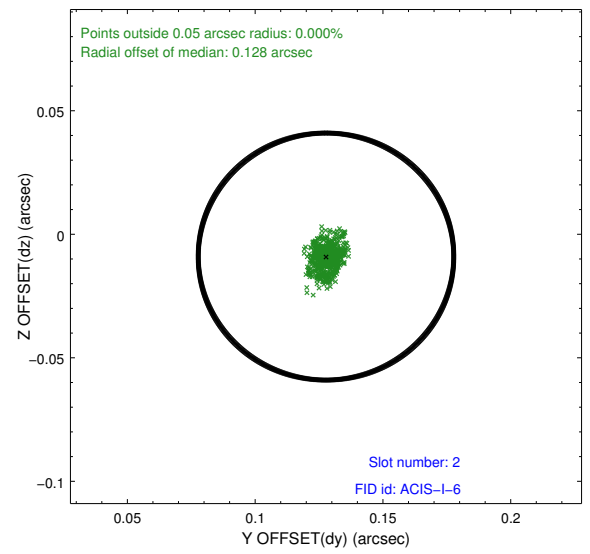
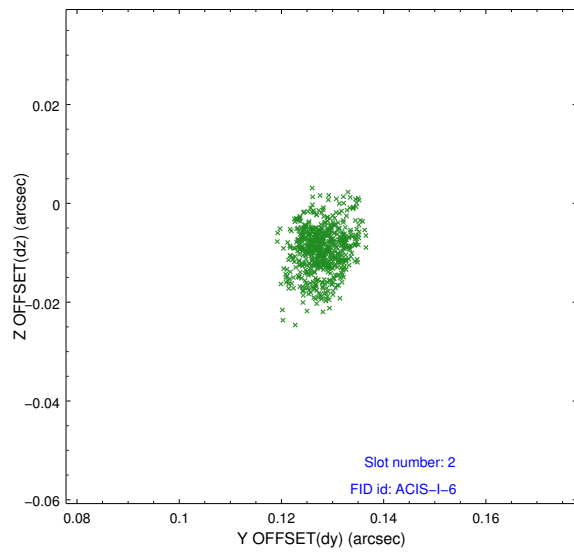
2.5.1 Slot 0



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)	2015.03.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.8658610521555

A.2 Comments

This observation was interrupted by safing of the science instruments onboard Chandra due to high solar radiation environment. The observation was interrupted at 2015:076:04:34z. Due to a high radiation environment, the instruments were safed and the observation terminated early.