

V&V Reference Report

L2 ASCDS Version : 10.3.1

Observation 14993 - L2 Version 3
Chandra X-Ray Center

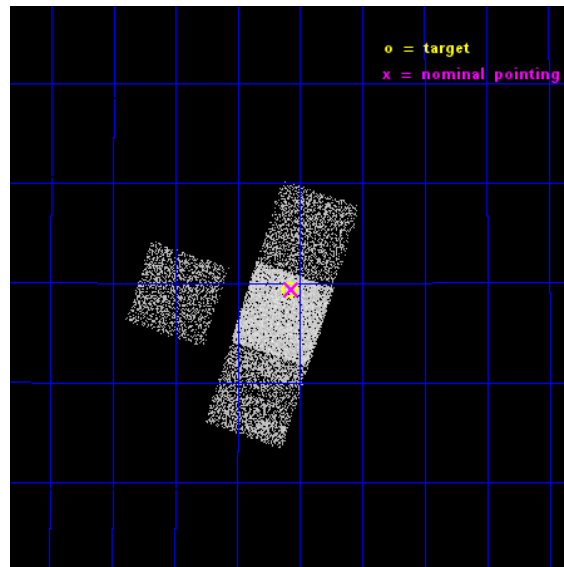
L2 Processing Date : Dec 19 2014

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1 Front

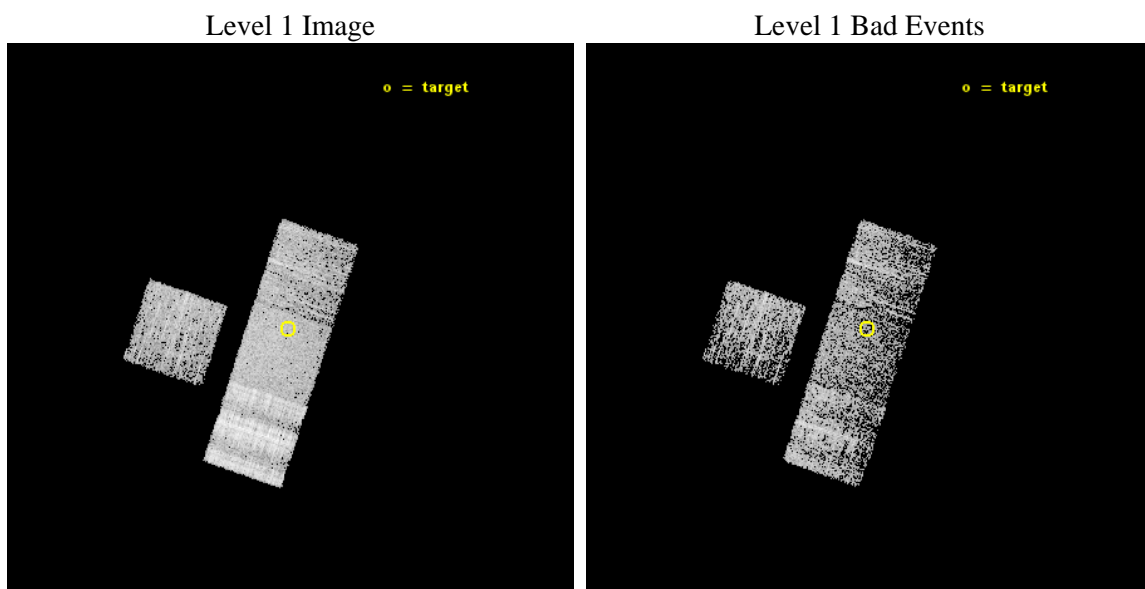
seq_num	702801	Sequence number
obs_id	14993	Observation id
title	The Herschel Legacy of powerful 3C radio galaxies and quasars II: observing Proposal.	Proposal title
observer	Dr Joanna Kuraszkiewicz	Principal investigator
object	3C441	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	331.520417	Observer's specified target RA [deg]
dec_targ	29.488861	Observer's specified target Dec [deg]
ra_nom	331.5172092984	Nominal RA [deg]
dec_nom	29.489471150576	Nominal Dec [deg]
roll_nom	108.50940789923	Nominal Roll [deg]
revision	3	Processing version of data
ontime	3072.1000236273	Sum of GTIs [s]
livetime	3031.9607751715	Livetime [s]
ontime3	3072.1000236273	Sum of GTIs [s]
ontime6	3072.1000236273	Sum of GTIs [s]
ontime7	3072.1000236273	Sum of GTIs [s]
ontime8	3072.1000236273	Sum of GTIs [s]
l2events	18070	Number of level 2 events



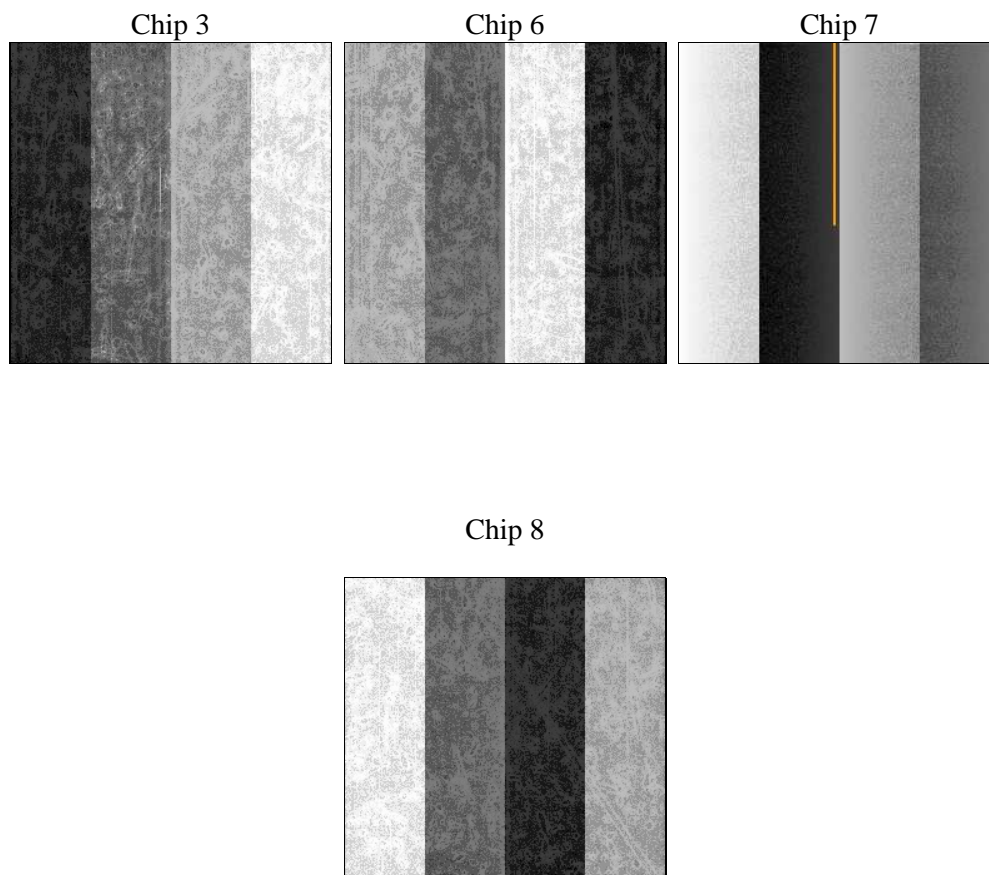
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	3072.1000236273	Sum of GTIs [s]
caldsver	4.6.5	 	ontime3	3072.1000236273	Sum of GTIs [s]
date	2014-12-20T00:20:30	Date and time of file creation	ontime6	3072.1000236273	Sum of GTIs [s]
revision	3	Processing version of data	ontime7	3072.1000236273	Sum of GTIs [s]
			ontime8	3072.1000236273	Sum of GTIs [s]
			l1events	101291	Number of level 1 events

2.1.4 Events

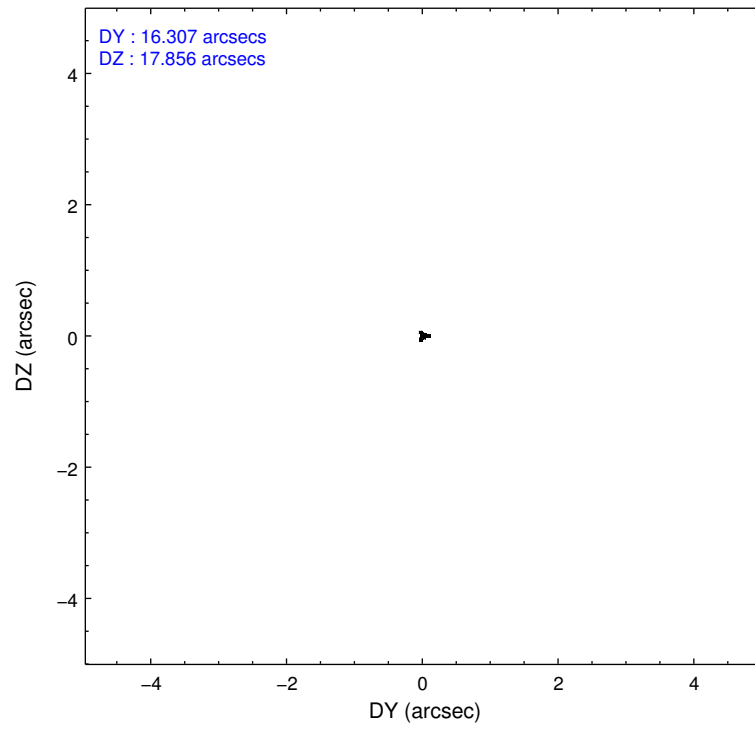
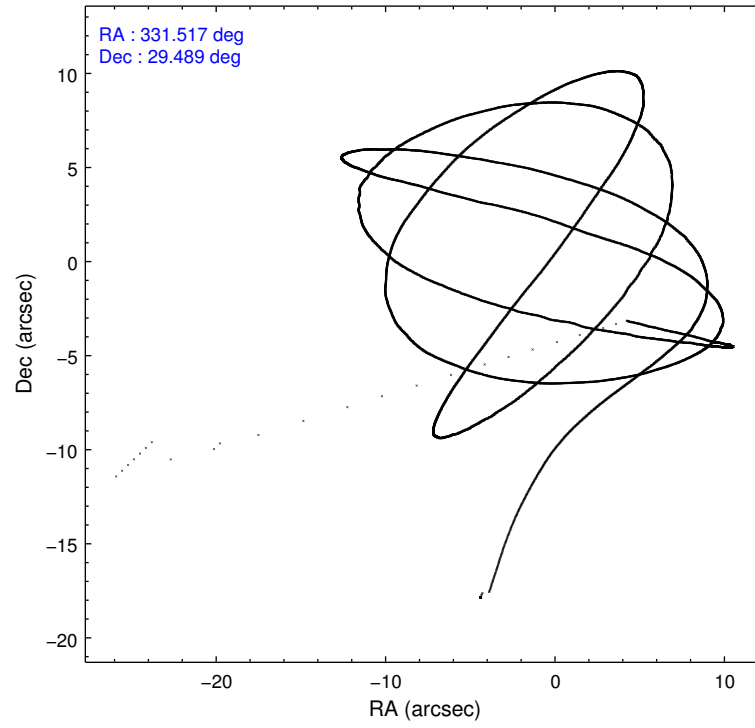
	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	17883	17896	22949	42563
rejected events	15631	15126	11954	18302
rejected %	87%	84%	52%	42%

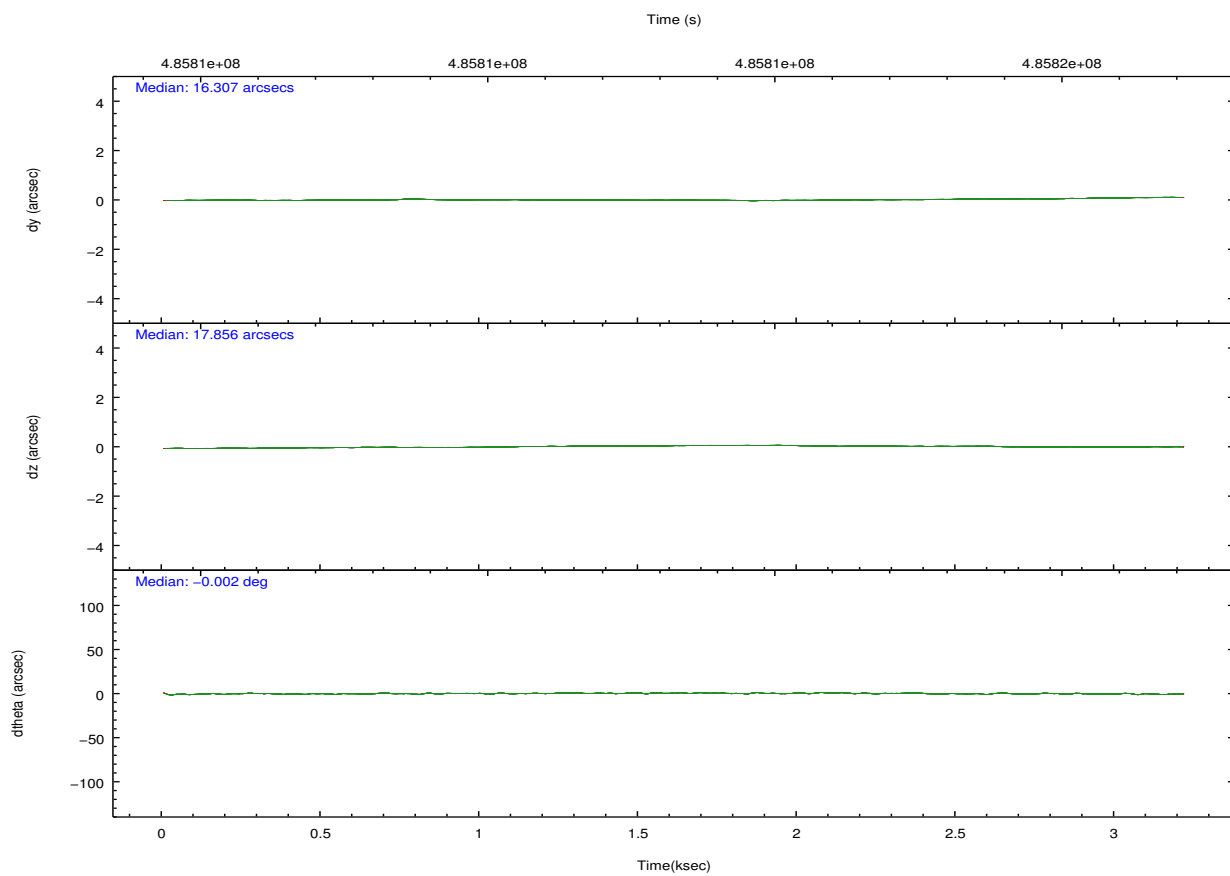
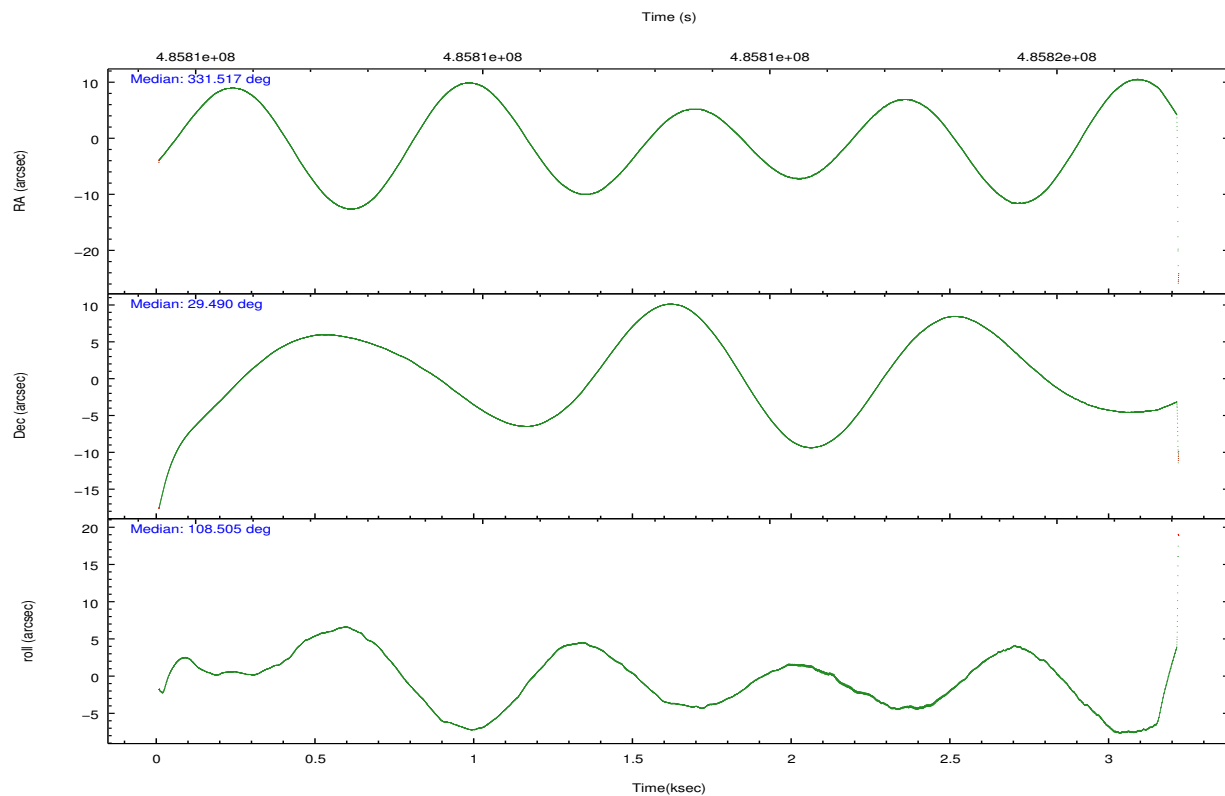
	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	984	1341	1088	9369
	5%	7%	4%	22%
grade 1 events	9	8	40	78
	0%	0%	0%	0%
grade 2 events	466	574	2511	3114
	2%	3%	10%	7%
grade 3 events	221	198	879	4184
	1%	1%	3%	9%
grade 4 events	193	221	948	3921
	1%	1%	4%	9%
grade 5 events	748	776	2205	1292
	4%	4%	9%	3%
grade 6 events	400	456	5641	3895
	2%	2%	24%	9%
grade 7 events	14862	14322	9637	16710
	83%	80%	41%	39%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-3678	ACIS-3678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	331.540852	331.5172092983985	CCD I2 on	N	N
[deg] Pointing Dec	29.471761	29.48947115057554	CCD I3 on	O1	Y
[deg] Pointing Roll	108.341172	108.5094078992312	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	O3	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)	485812226.184000	485811193.9007	CCD S5 on	N	N
Observation start date	2013-05-24T19:49:19	2013-05-24T19:33:13	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	485822226.184000	485815264.17592	On-chip summing requested	N	N
Observation end date	2013-05-24T22:35:59	2013-05-24T20:41:04	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



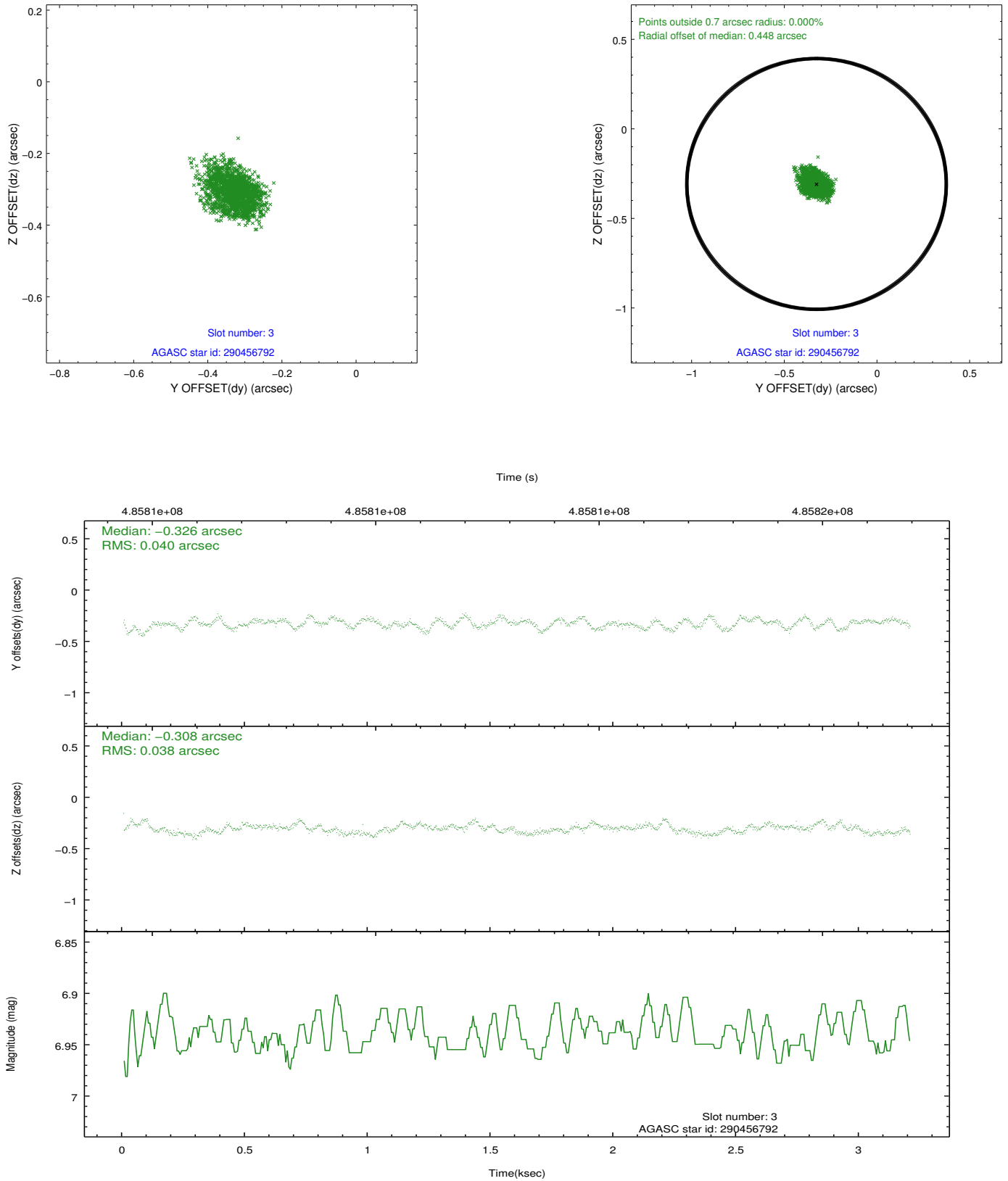


Slot Statistics

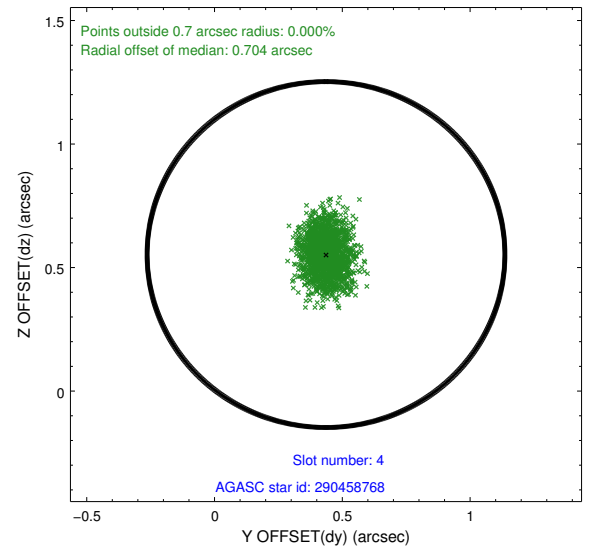
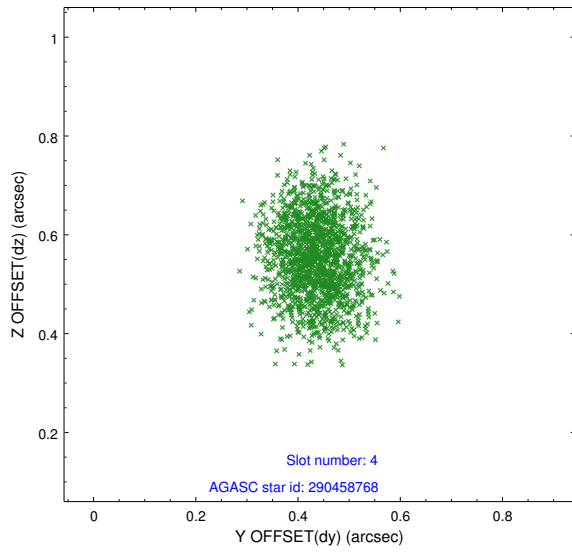
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.88	782	-0.089	-0.043	0.005	0.011	0.000000	0.000000	-769.47	-1739.33
1	FID		ACIS-S-4	6.97	782	0.129	0.042	0.006	0.012	0.000000	0.000000	2143.18	167.08
2	FID		ACIS-S-6	7.10	782	-0.068	0.007	0.007	0.011	0.000000	0.000000	395.16	806.76
3	GUIDE	used	290456792	6.94	1563	-0.326	-0.308	0.060	0.093	330.834496	29.749334	1649.84	1779.34
4	GUIDE	used	290458768	9.33	1563	0.436	0.553	0.102	0.163	332.147498	29.204860	-1505.12	-1505.95
5	GUIDE	used	290460600	7.48	1563	-0.361	-0.622	0.051	0.081	330.729958	29.687868	1544.11	2158.62
6	GUIDE	used	290462904	8.43	1562	0.157	0.385	0.085	0.129	332.019529	29.683773	257.92	-1660.06
7	GUIDE	used	290470728	6.21	1563	0.085	-0.008	0.082	0.162	331.394479	28.963981	-1589.19	1011.65

2.4 Star Slots

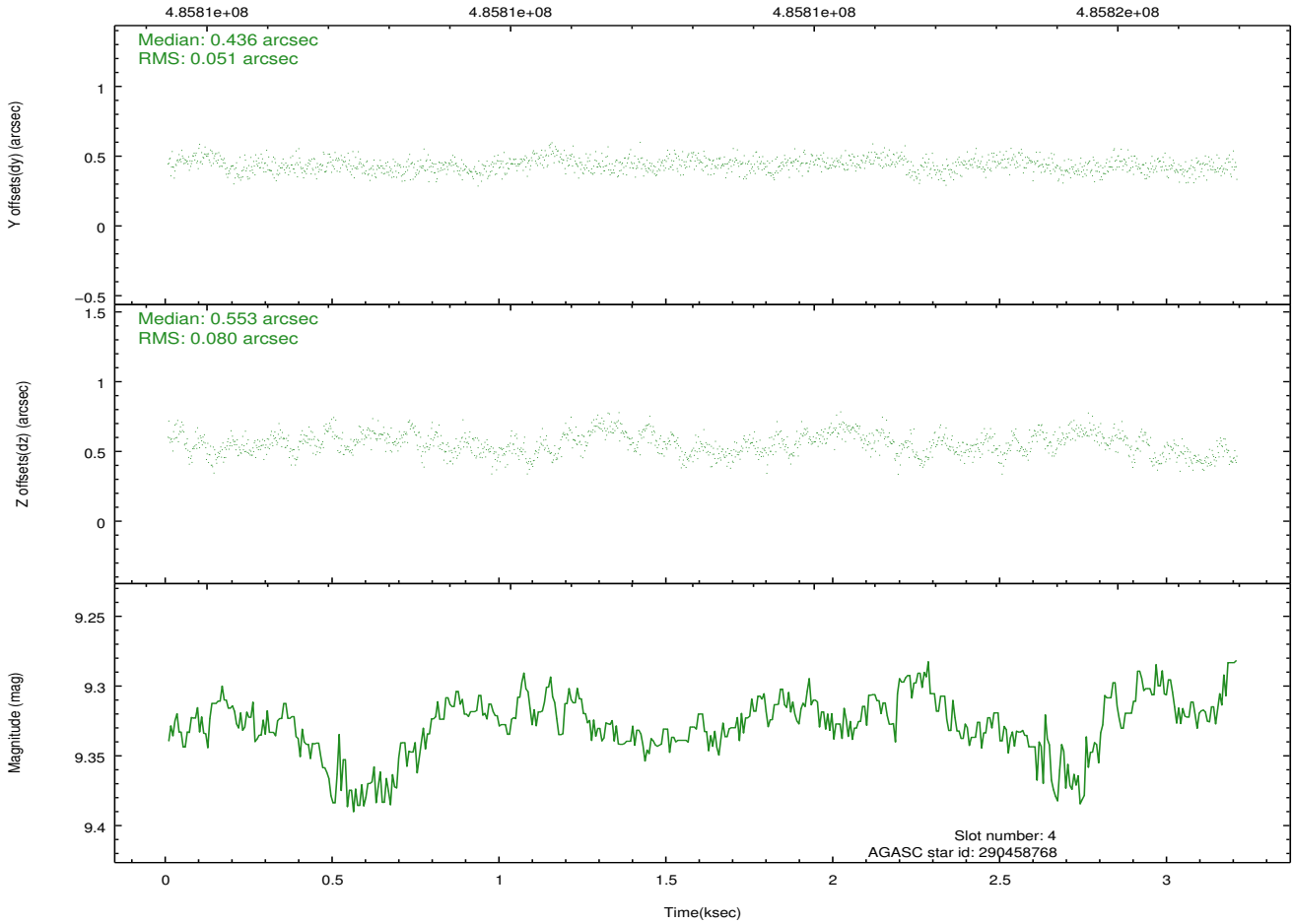
2.4.1 Slot 3



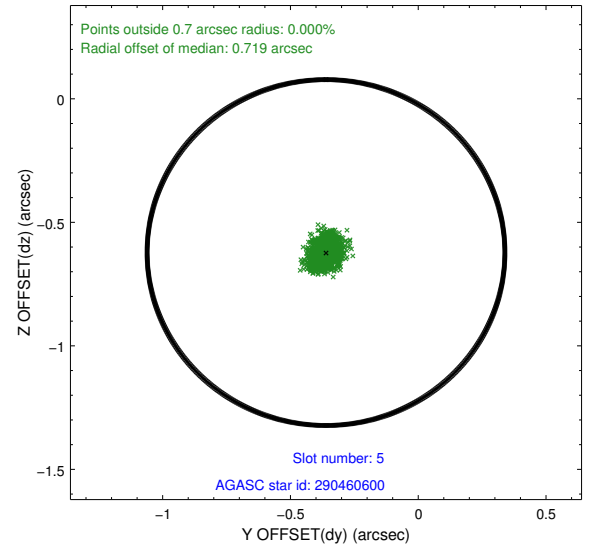
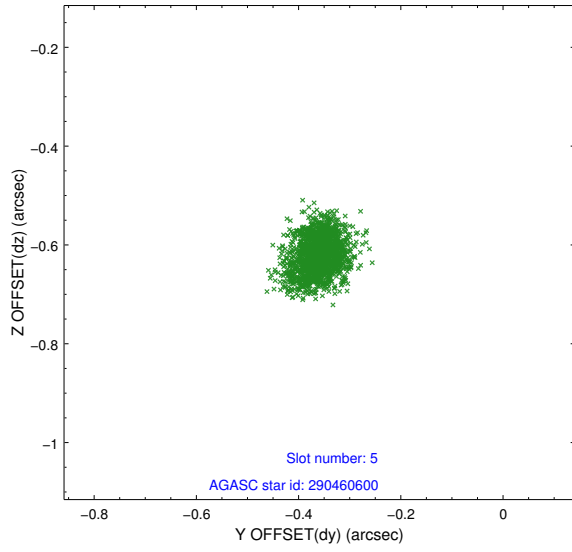
2.4.2 Slot 4



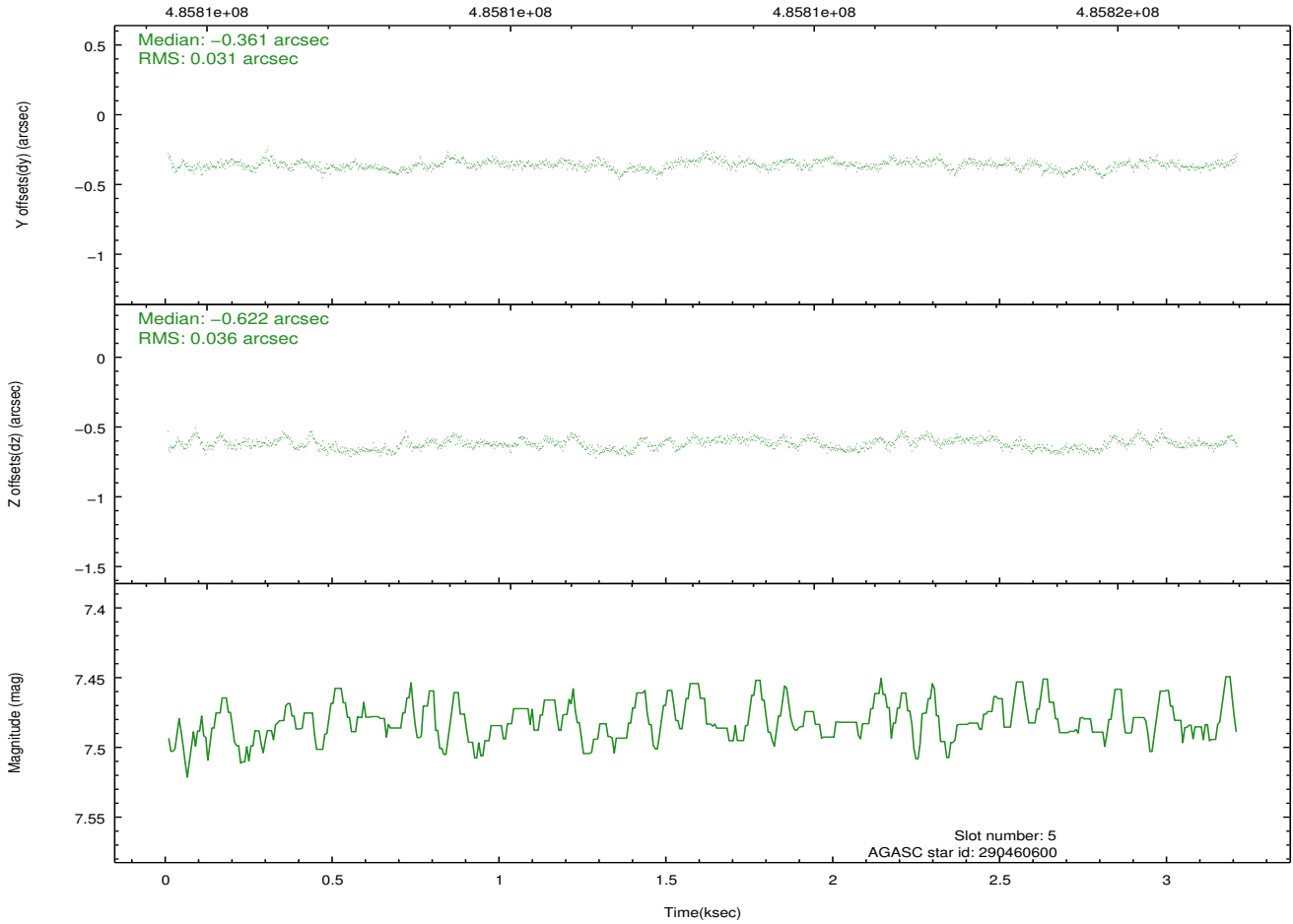
Time (s)



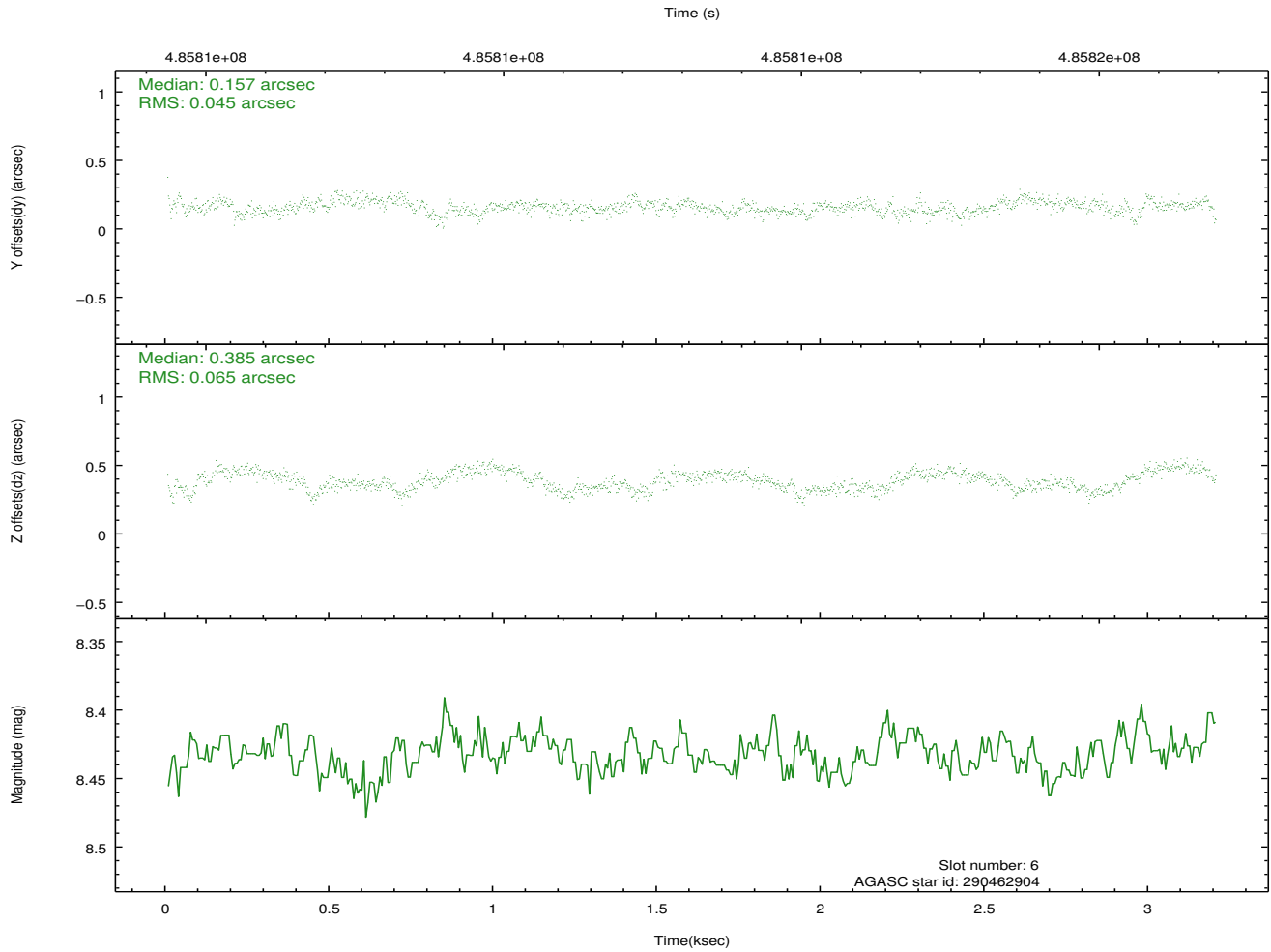
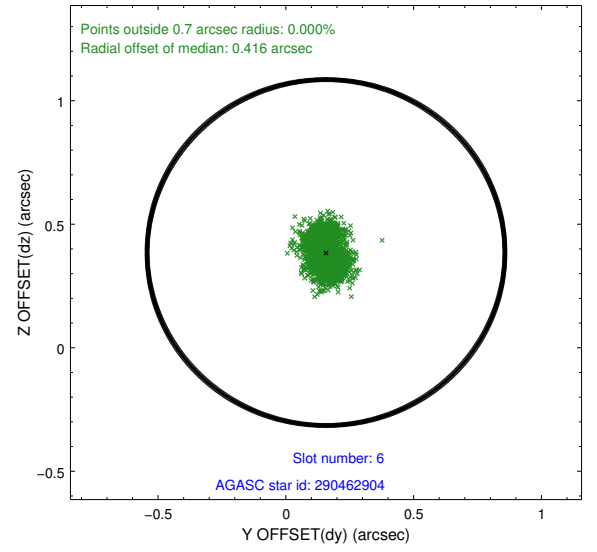
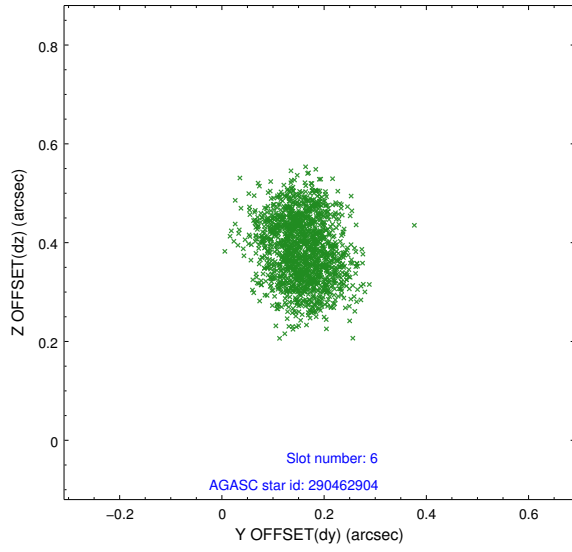
2.4.3 Slot 5



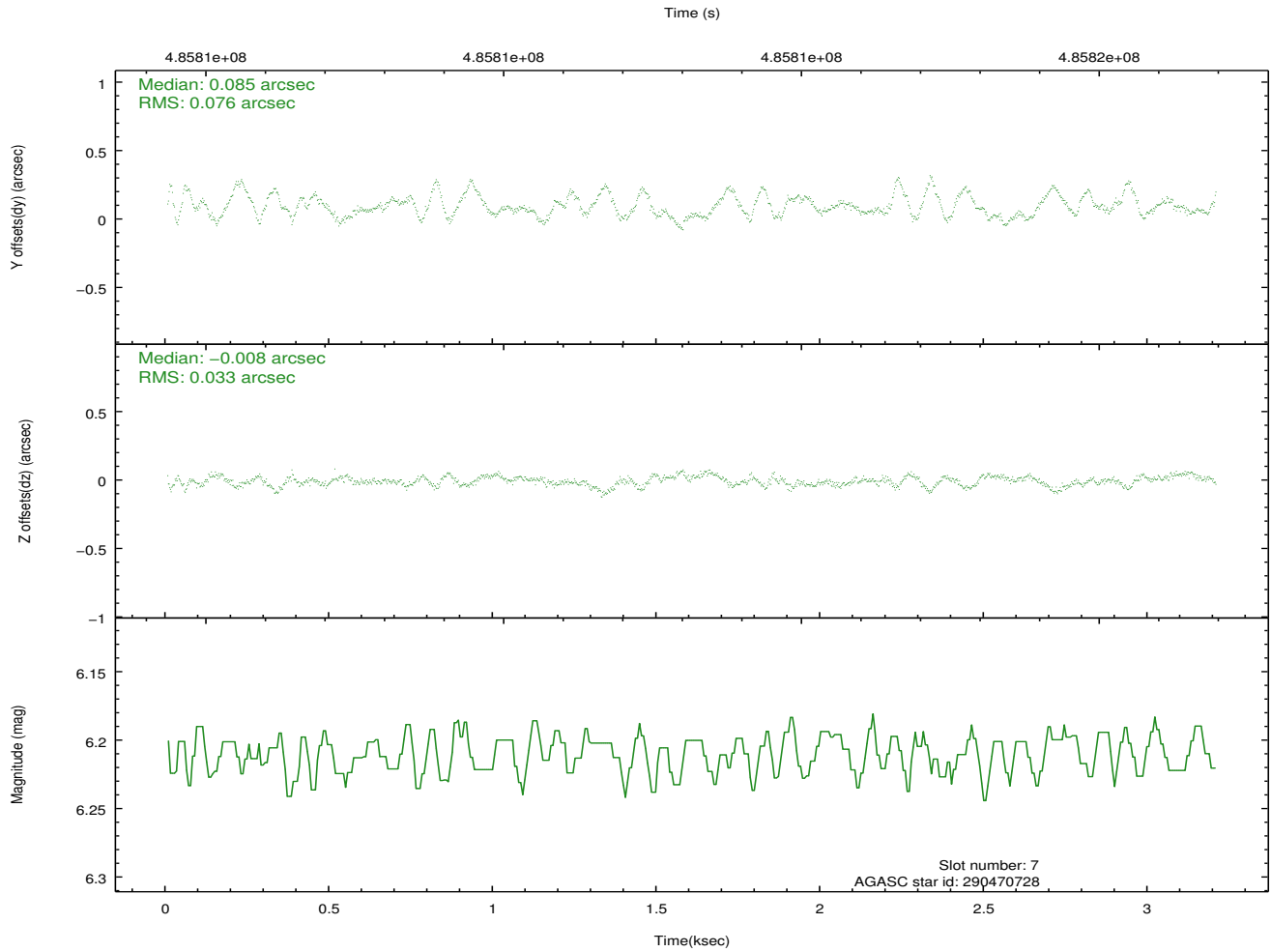
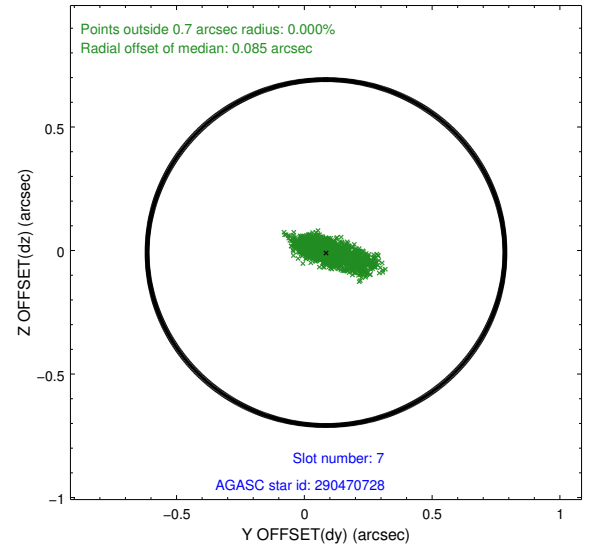
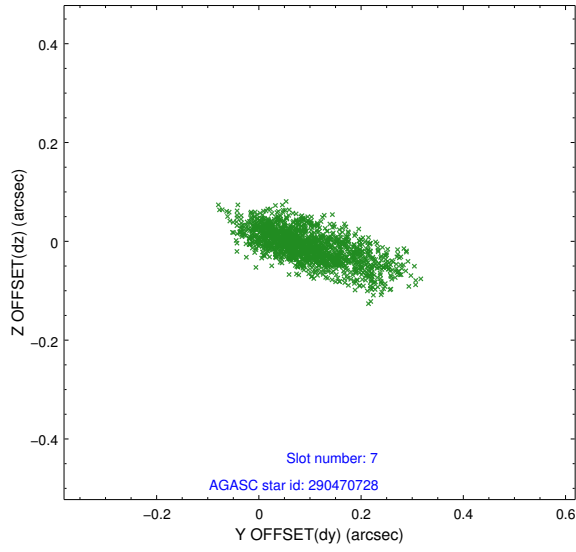
Time (s)



2.4.4 Slot 6

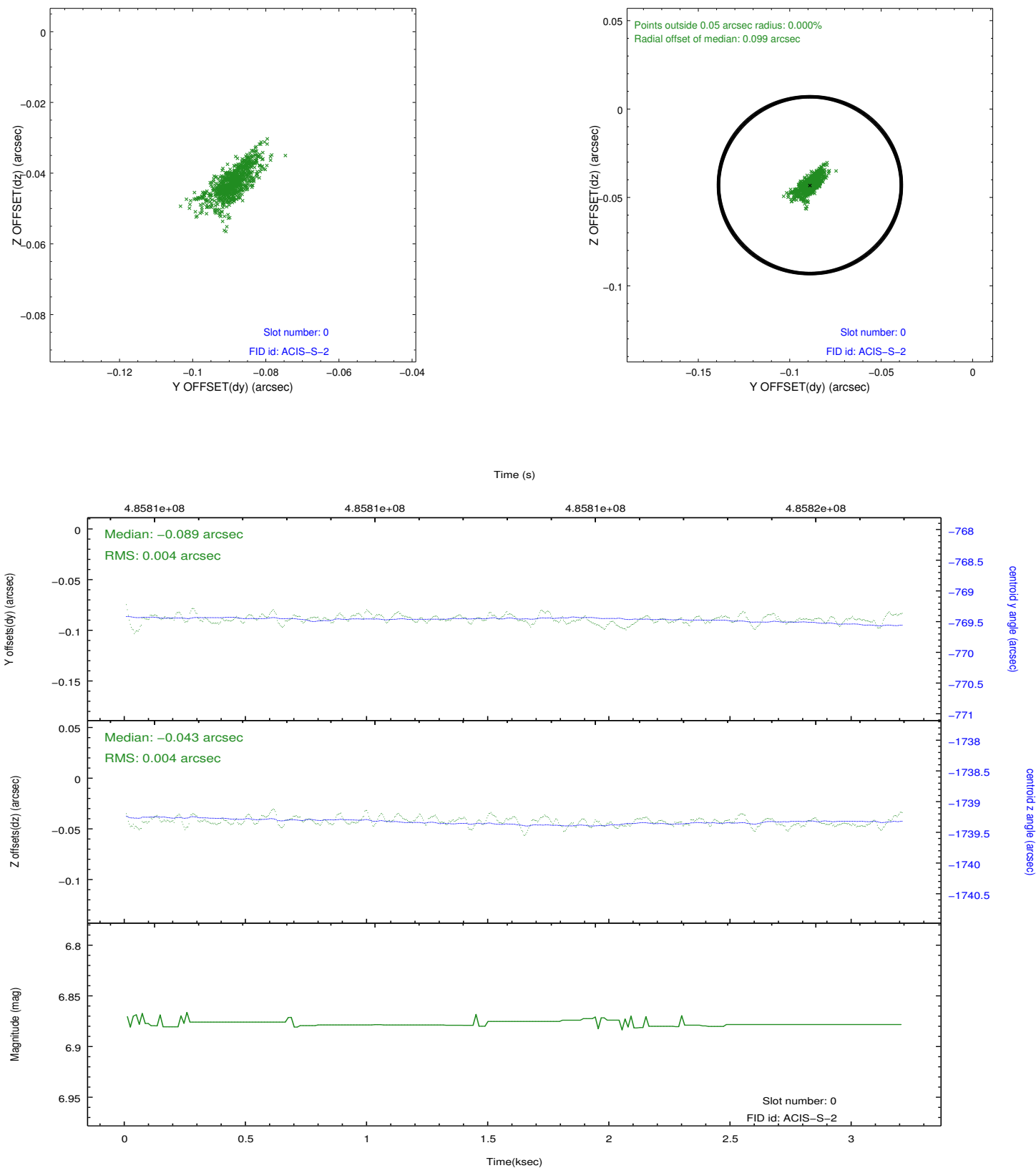


2.4.5 Slot 7

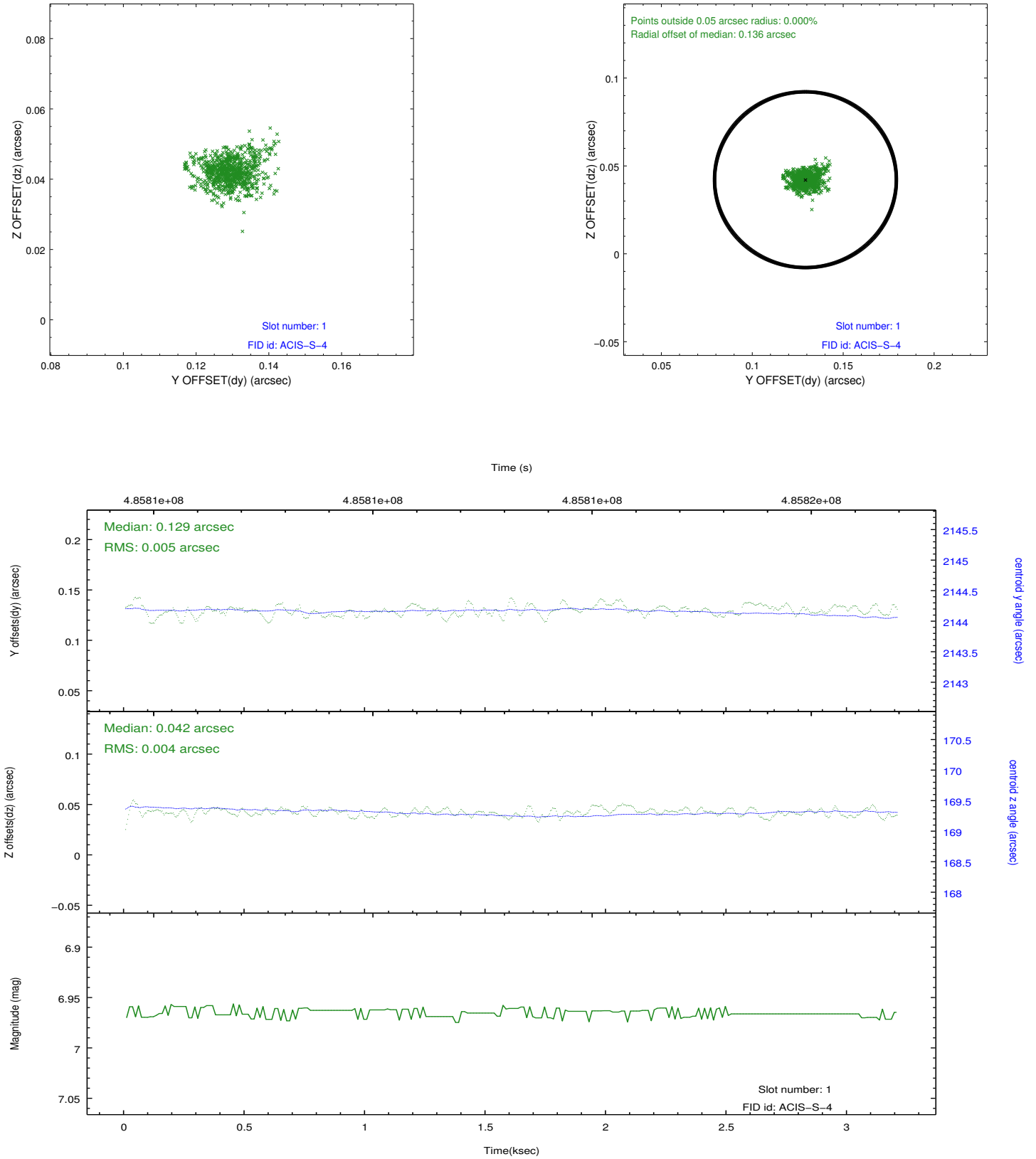


2.5 FID Slots

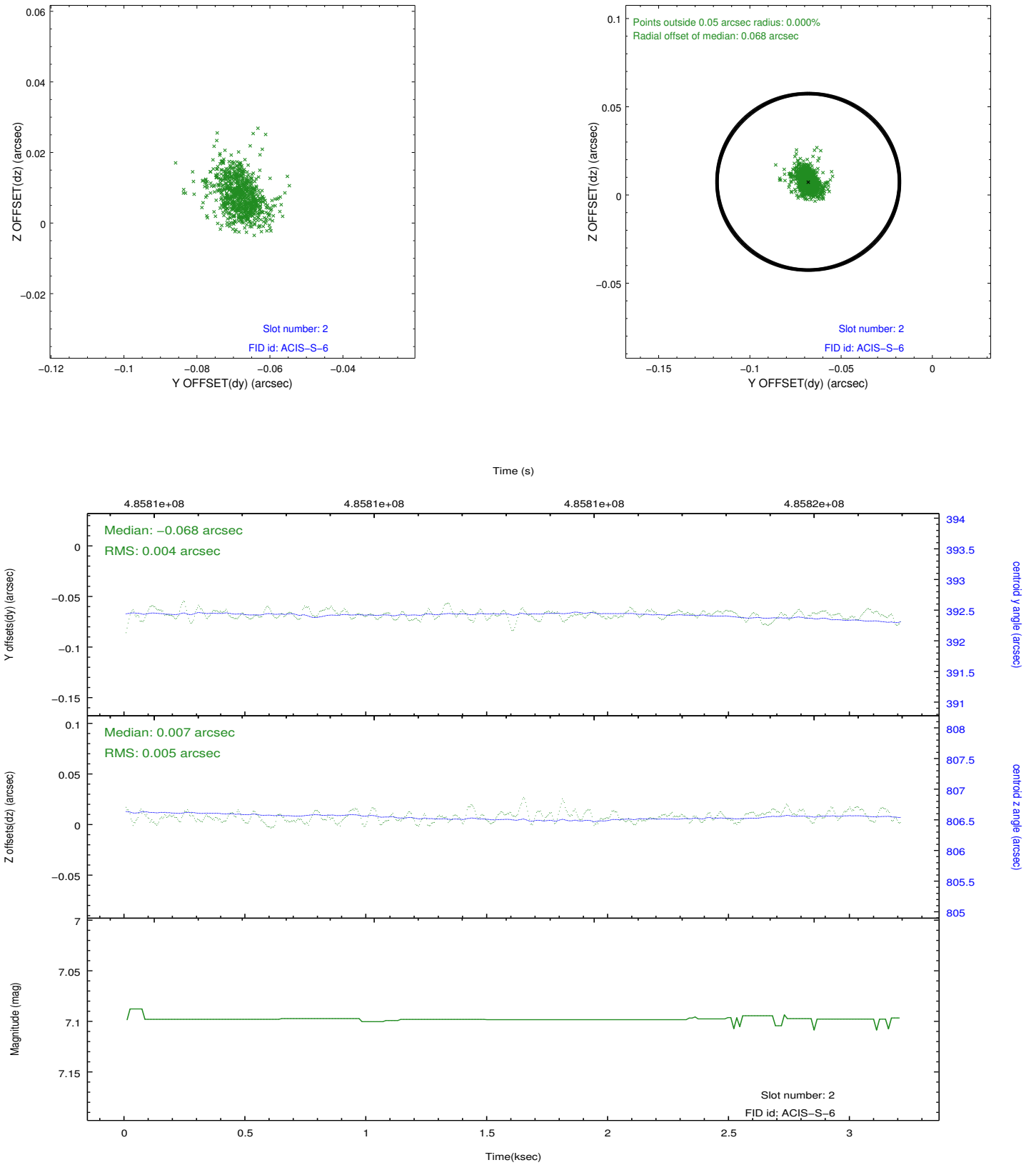
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2014.12.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.9512000226974

A.2 Comments

Charge time for this observation remains at previous value of 2.95 ksec, although with the current processing the charge time would have been 3.07 ksec.

This observation was interrupted by safing of the science instruments due to high solar radiation environment. The observation was interrupted at 2013:144:20:39 GMT.

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.