

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 15054 - L2 Version 2
Chandra X-Ray Center

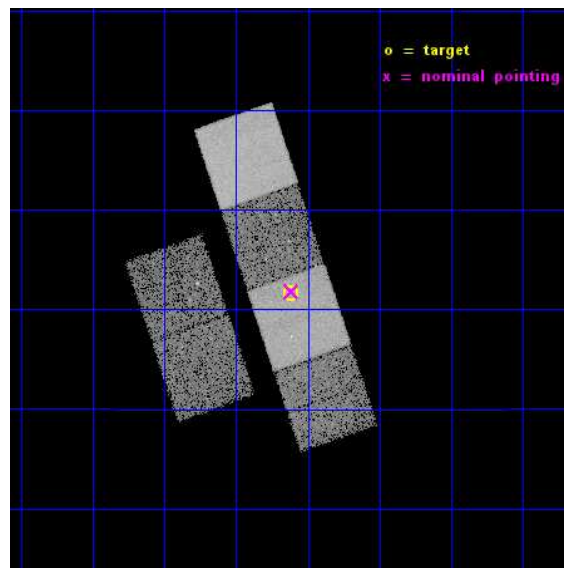
L2 Processing Date : Dec 1 2014

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1 Front

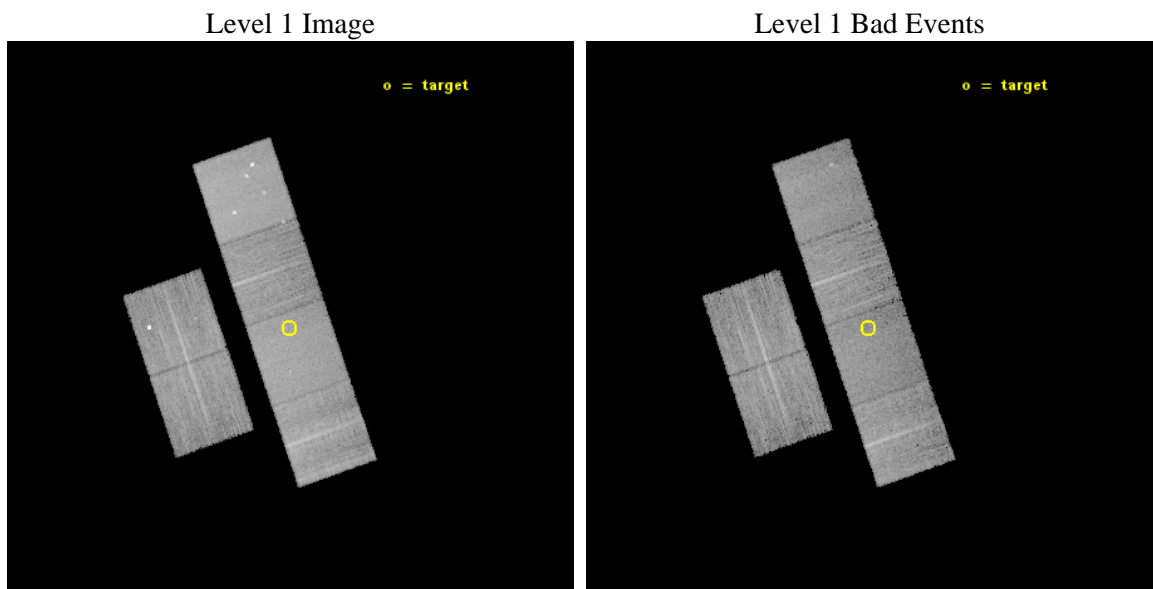
seq_num	702861	Sequence number
obs_id	15054	Observation id
title	C-GOALS: The Chandra-RBGS Survey of a Complete Sample of Major-Merger LIRGs	Proposal title
observer	Professor David Sanders	Principal investigator
object	IRAS 18090+0130	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	272.905417	Observer's specified target RA [deg]
dec_targ	1.527778	Observer's specified target Dec [deg]
ra_nom	272.90351777125	Nominal RA [deg]
dec_nom	1.5301595014458	Nominal Dec [deg]
roll_nom	71.053500059808	Nominal Roll [deg]
revision	2	Processing version of data
ontime	14961.85577035	Sum of GTIs [s]
livetime	14772.399743637	Livetime [s]
ontime2	14961.896810353	Sum of GTIs [s]
ontime3	14961.73265034	Sum of GTIs [s]
ontime5	14961.814730346	Sum of GTIs [s]
ontime6	14961.773690343	Sum of GTIs [s]
ontime7	14961.85577035	Sum of GTIs [s]
ontime8	14961.691610336	Sum of GTIs [s]
l2events	143947	Number of level 2 events



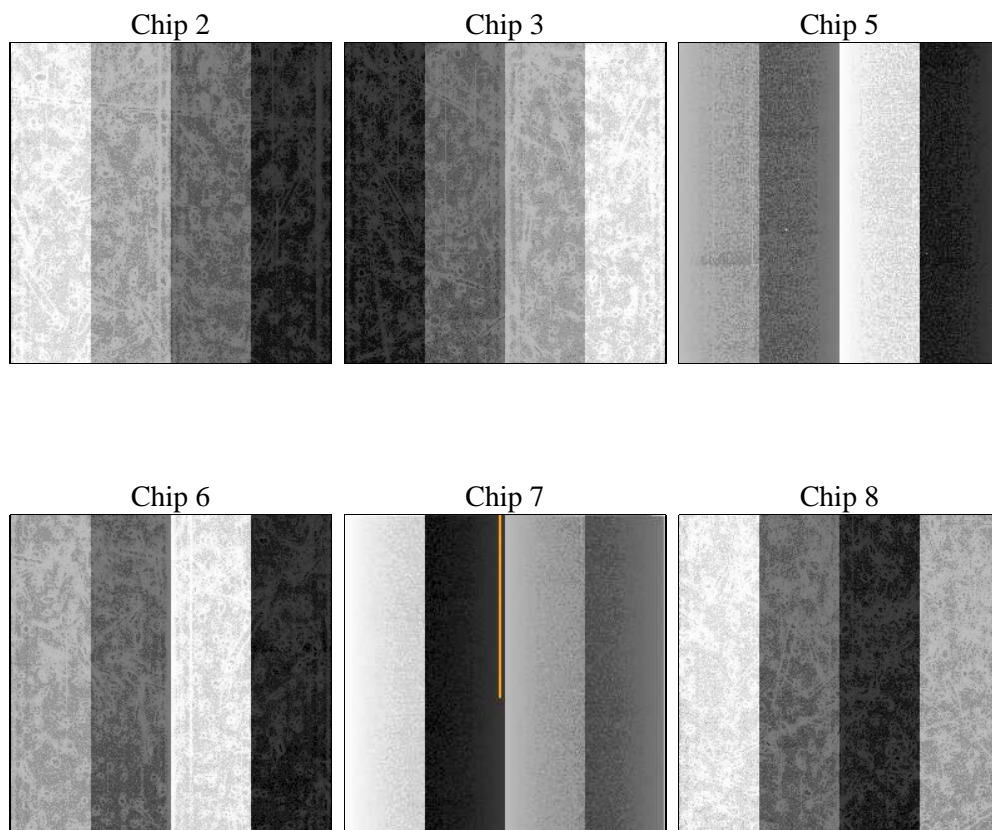
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	15000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	14961.85577035	Sum of GTIs [s]
caldsver	4.6.4	 	ontime2	14961.896810353	Sum of GTIs [s]
date	2014-12-01T11:23:24	Date and time of file creation	ontime3	14961.73265034	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	14961.814730346	Sum of GTIs [s]
			ontime6	14961.773690343	Sum of GTIs [s]
			ontime7	14961.85577035	Sum of GTIs [s]
			ontime8	14961.691610336	Sum of GTIs [s]
			l1events	611707	Number of level 1 events

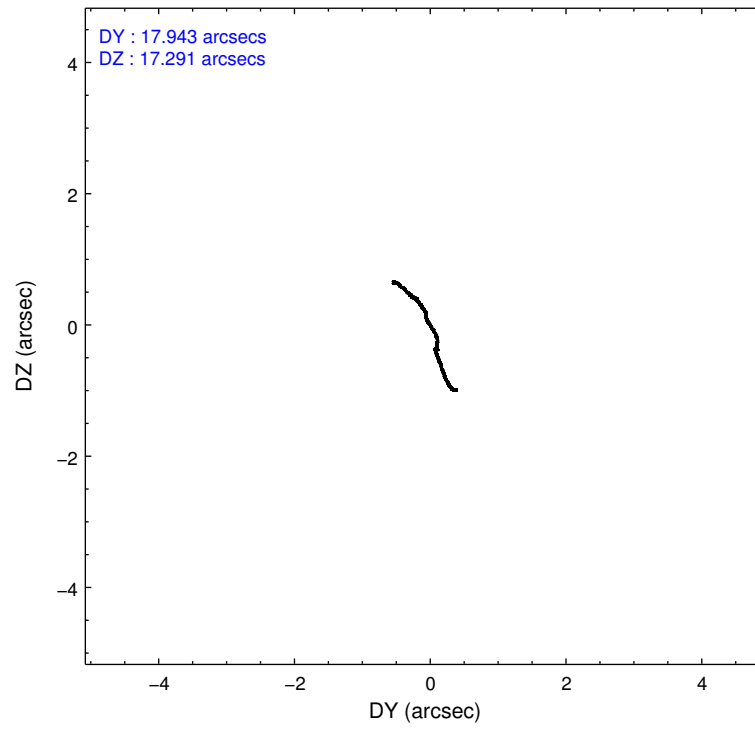
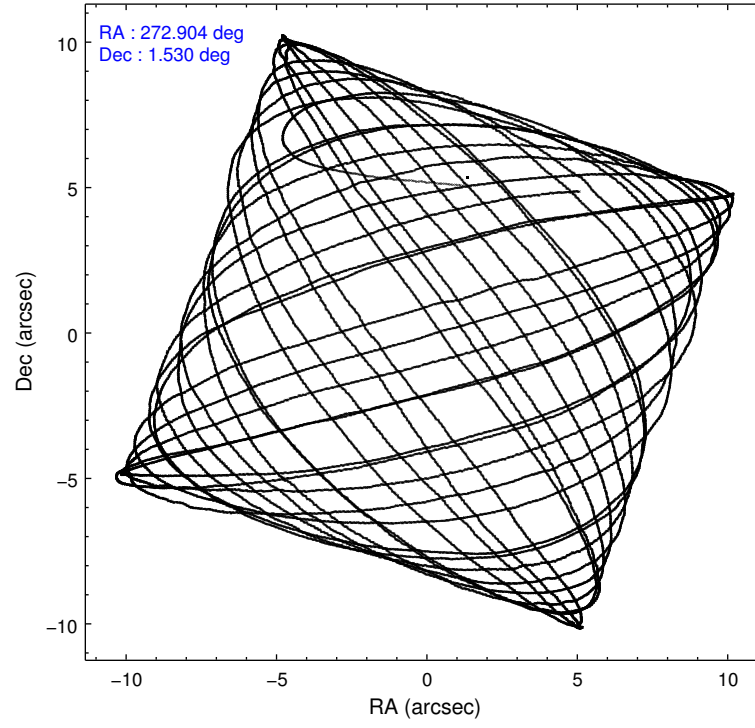
2.1.4 Events

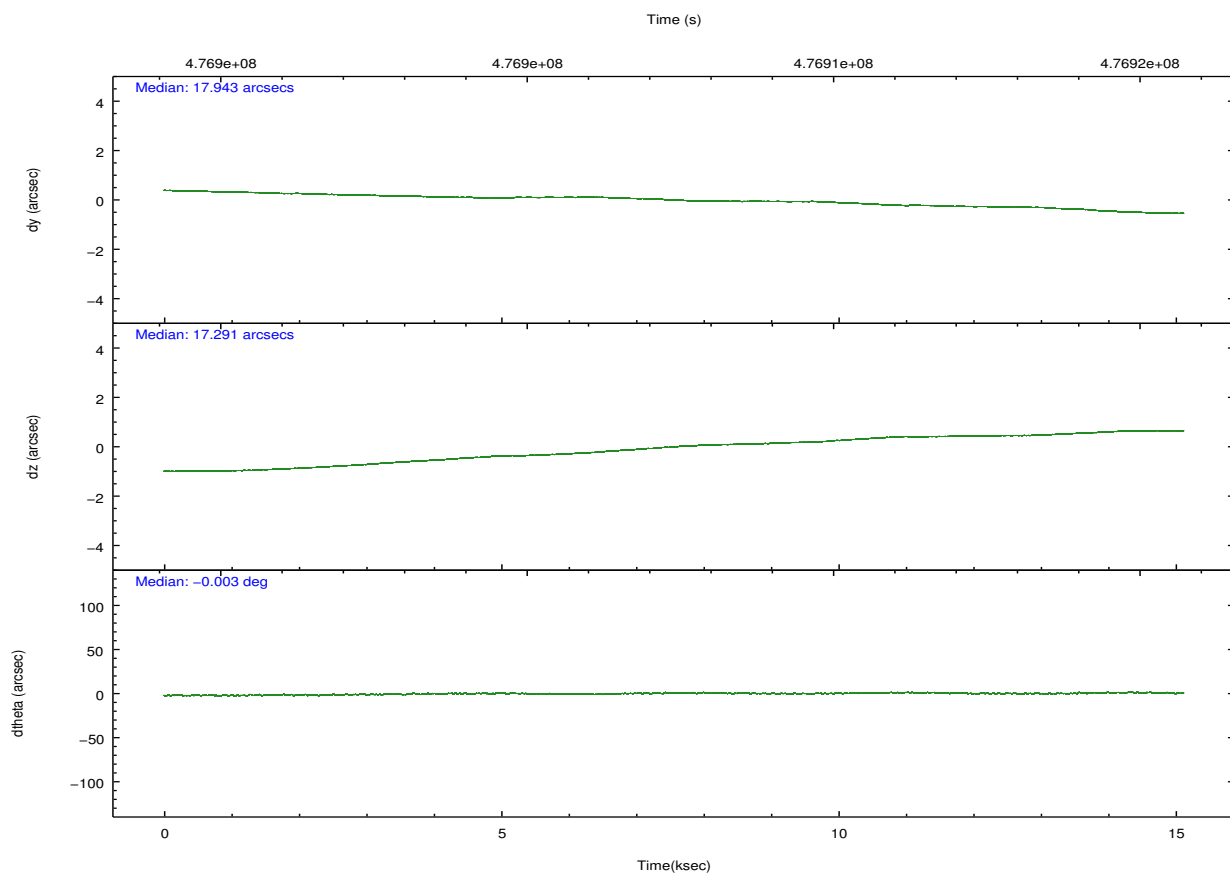
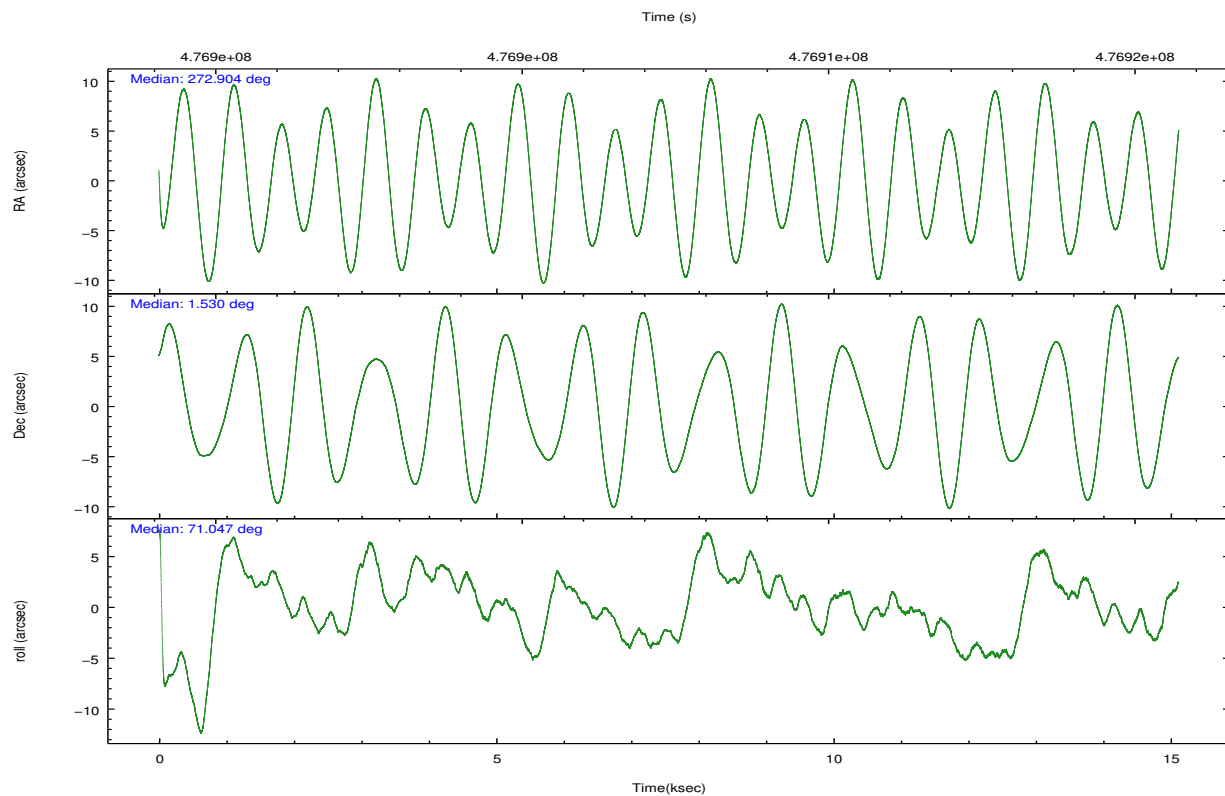
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	88803	81501	138099	83616	111456	108232	grade 0 events	7782	3086	8152	3815	4305	8556
rejected events	74959	72562	70095	73181	62582	79151		8%	3%	5%	4%	3%	7%
rejected %	84%	89%	50%	87%	56%	73%	grade 1 events	68	50	583	37	142	91
								0%	0%	0%	0%	0%	0%
							grade 2 events	2327	2060	20213	2289	10166	6356
								2%	2%	14%	2%	9%	5%
							grade 3 events	920	960	2114	985	4053	3390
								1%	1%	1%	1%	3%	3%
							grade 4 events	934	960	2087	1022	3937	3124
								1%	1%	1%	1%	3%	2%
							grade 5 events	3600	4228	9309	4149	11067	6020
								4%	5%	6%	4%	9%	5%
							grade 6 events	1890	1879	35461	2328	26437	7696
								2%	2%	25%	2%	23%	7%
							grade 7 events	71282	68278	60180	68991	51349	72999
								80%	83%	43%	82%	46%	67%

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	272.909140	272.9035177712488	CCD I2 on	O2	Y
[deg] Pointing Dec	1.503384	1.530159501445828	CCD I3 on	Y	Y
[deg] Pointing Roll	70.896711	71.05350005980794	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	Y	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	Y	Y
[s] Observation start time (MET)	476899949.184000	476898730.78081	CCD S5 on	N	N
Observation start date	2013-02-10T16:11:22	2013-02-10T15:52:10	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	476914949.184000	476915841.10674	On-chip summing requested	N	N
Observation end date	2013-02-10T20:21:22	2013-02-10T20:37:21	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



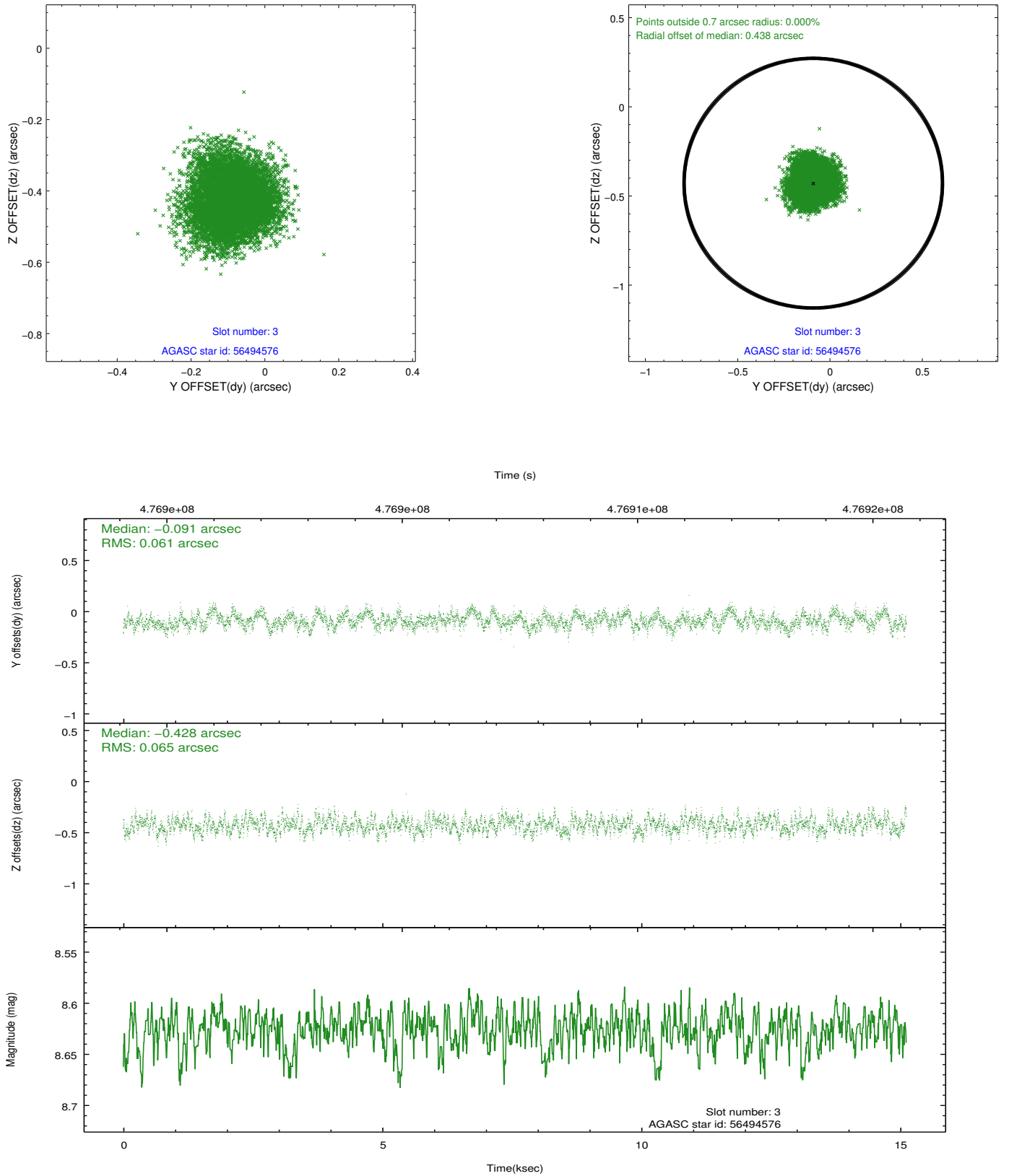


Slot Statistics

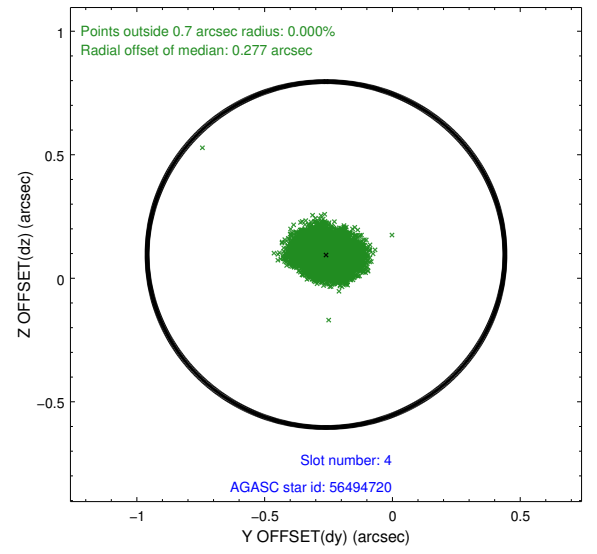
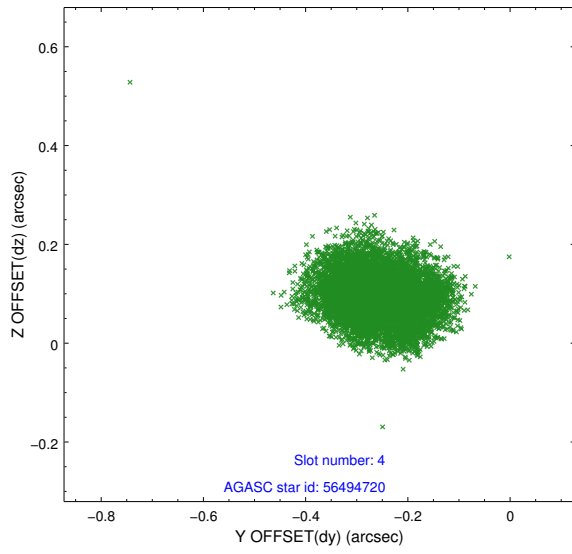
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.05	3688	-0.095	-0.061	0.015	0.039	0.000000	0.000000	-771.08	-1738.67
1	FID		ACIS-S-4	7.13	3688	0.269	0.063	0.020	0.028	0.000000	0.000000	2142.45	169.59
2	FID		ACIS-S-5	7.17	3687	-0.203	0.009	0.018	0.036	0.000000	0.000000	-1823.62	163.58
3	GUIDE	used	56494576	8.63	7376	-0.091	-0.428	0.096	0.150	272.974698	1.796668	1075.02	122.45
4	GUIDE	used	56494720	7.62	7377	-0.260	0.096	0.086	0.132	273.029759	1.657123	665.20	-228.71
5	GUIDE	used	56496336	9.25	7350	-0.019	0.355	0.121	0.188	273.034383	1.355372	-355.59	-599.90
6	GUIDE	used	56499568	10.18	7348	0.291	0.535	0.240	0.365	273.402622	1.093975	-810.52	-2160.24
7	GUIDE	used	56503856	9.36	7364	0.082	-0.556	0.106	0.169	272.206502	1.439628	-1044.17	2313.63

2.4 Star Slots

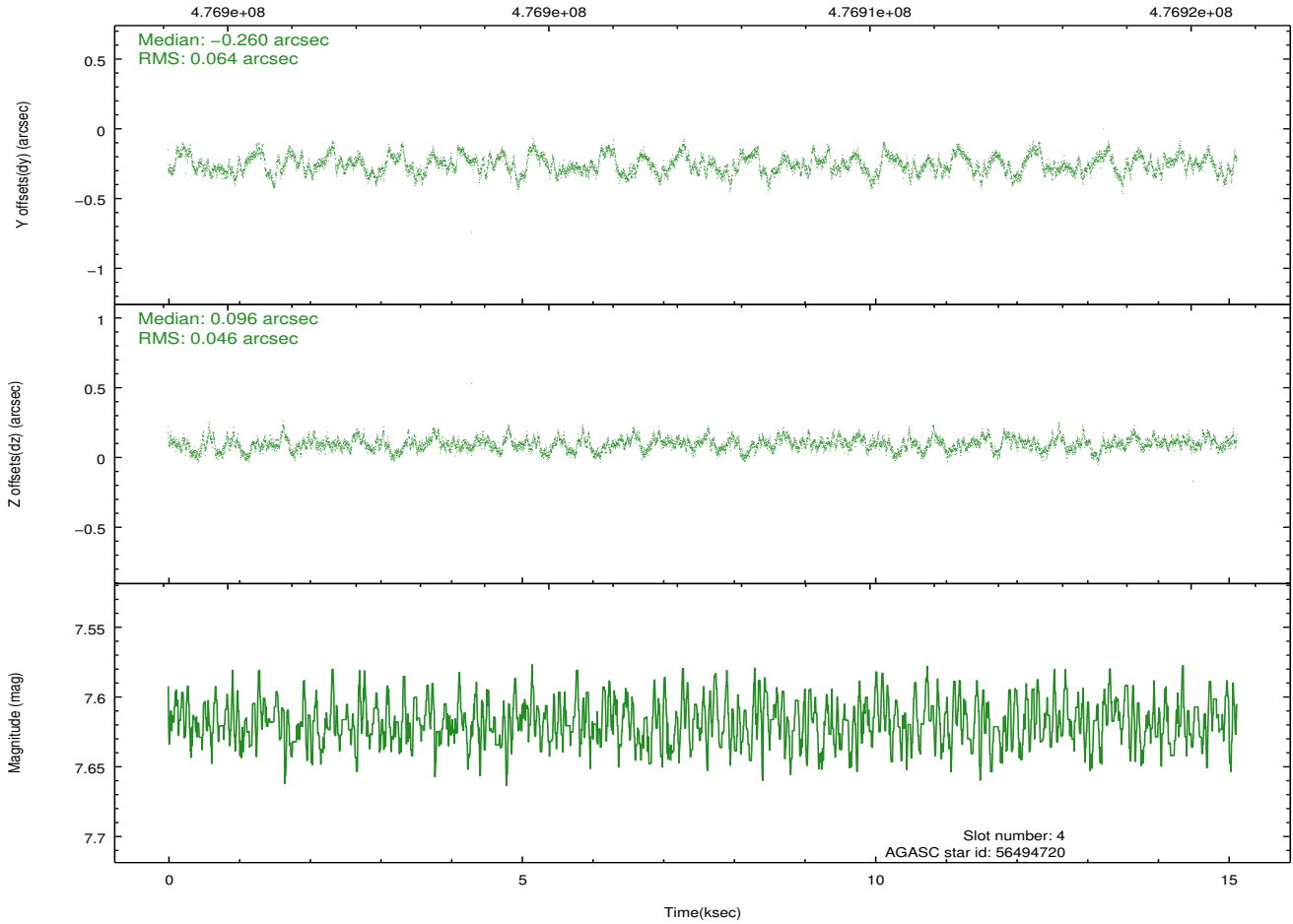
2.4.1 Slot 3



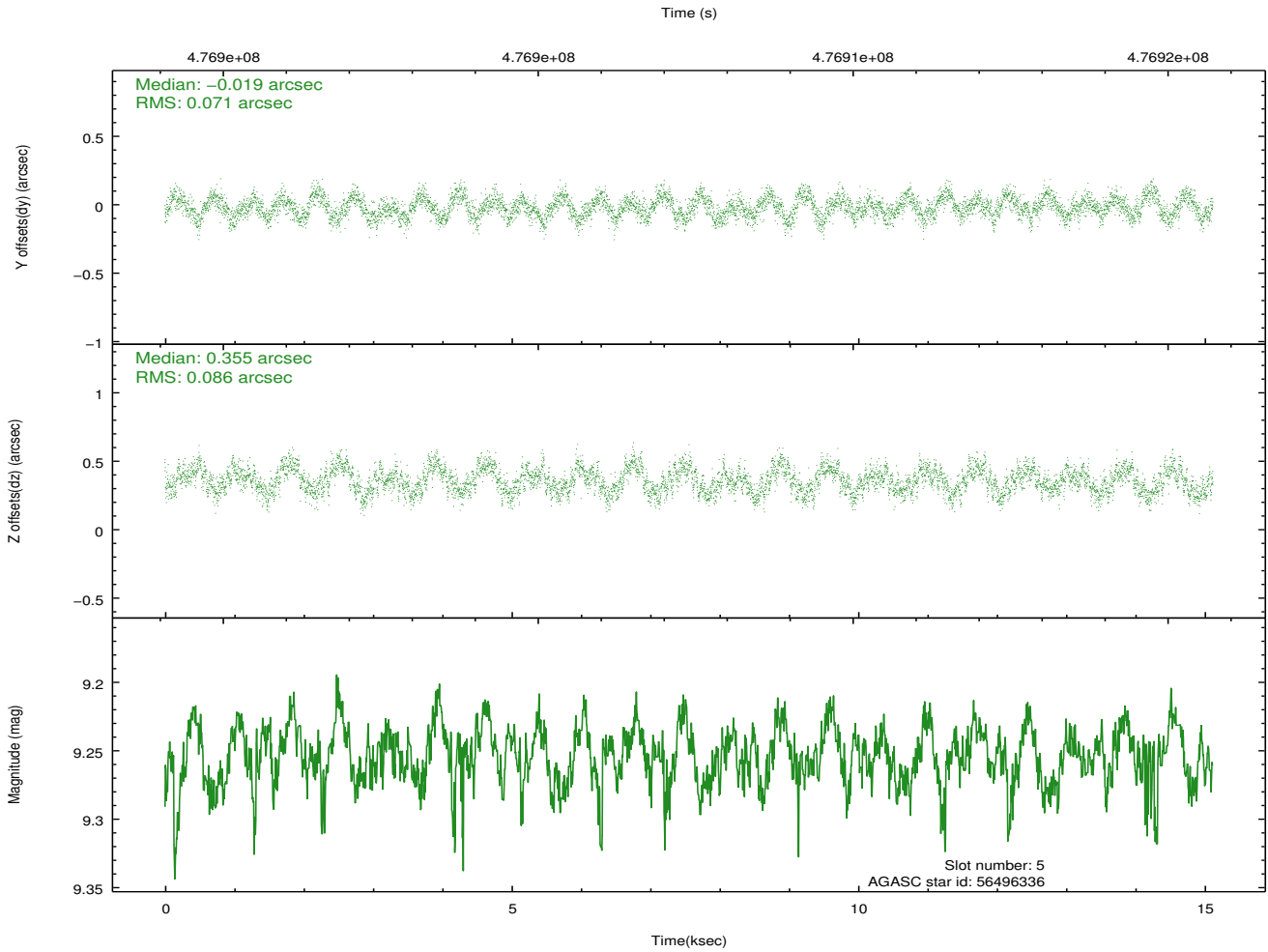
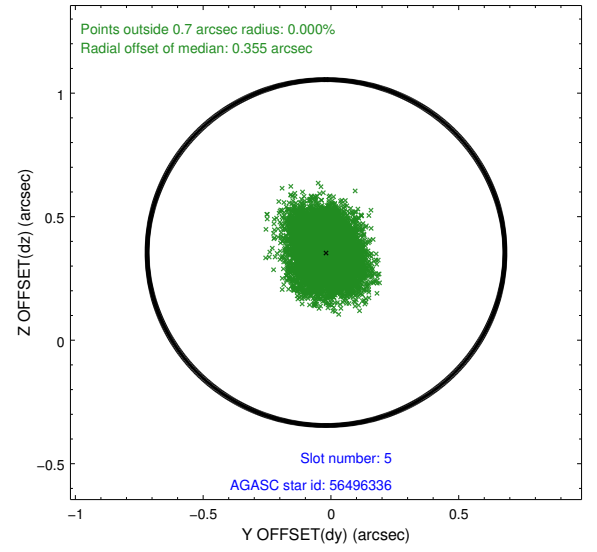
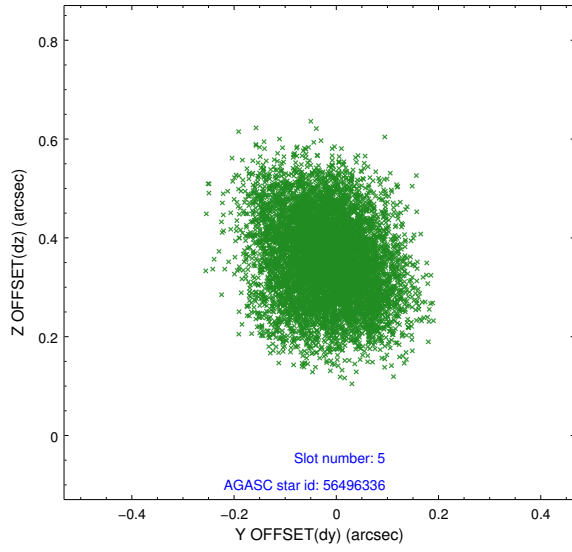
2.4.2 Slot 4



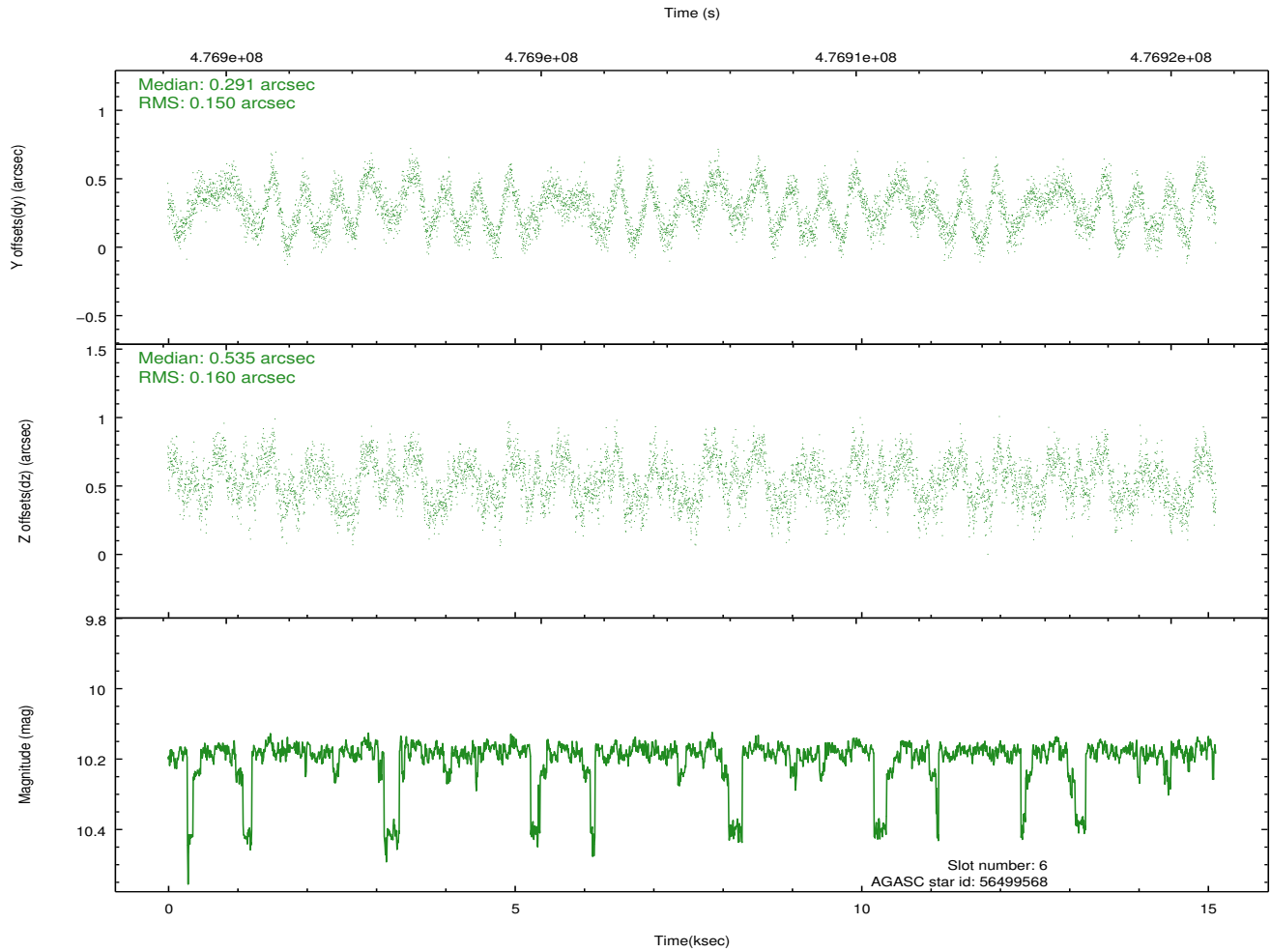
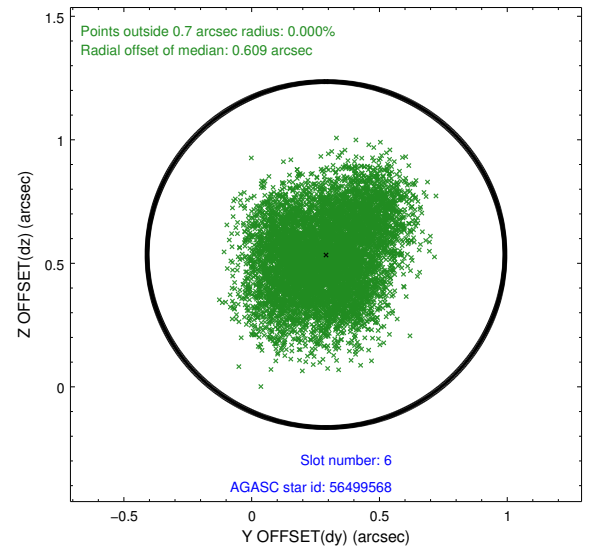
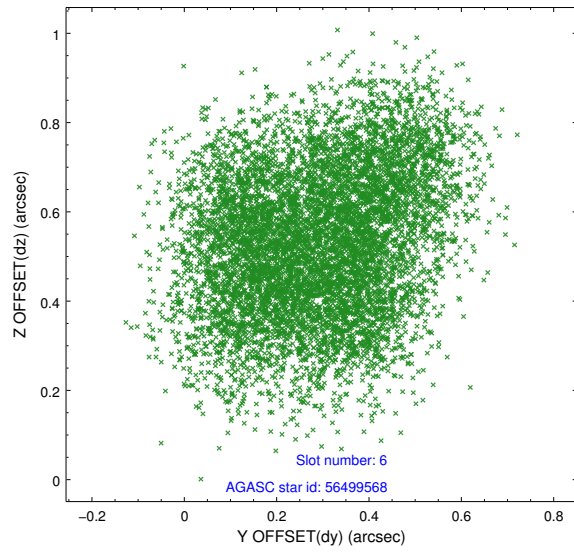
Time (s)



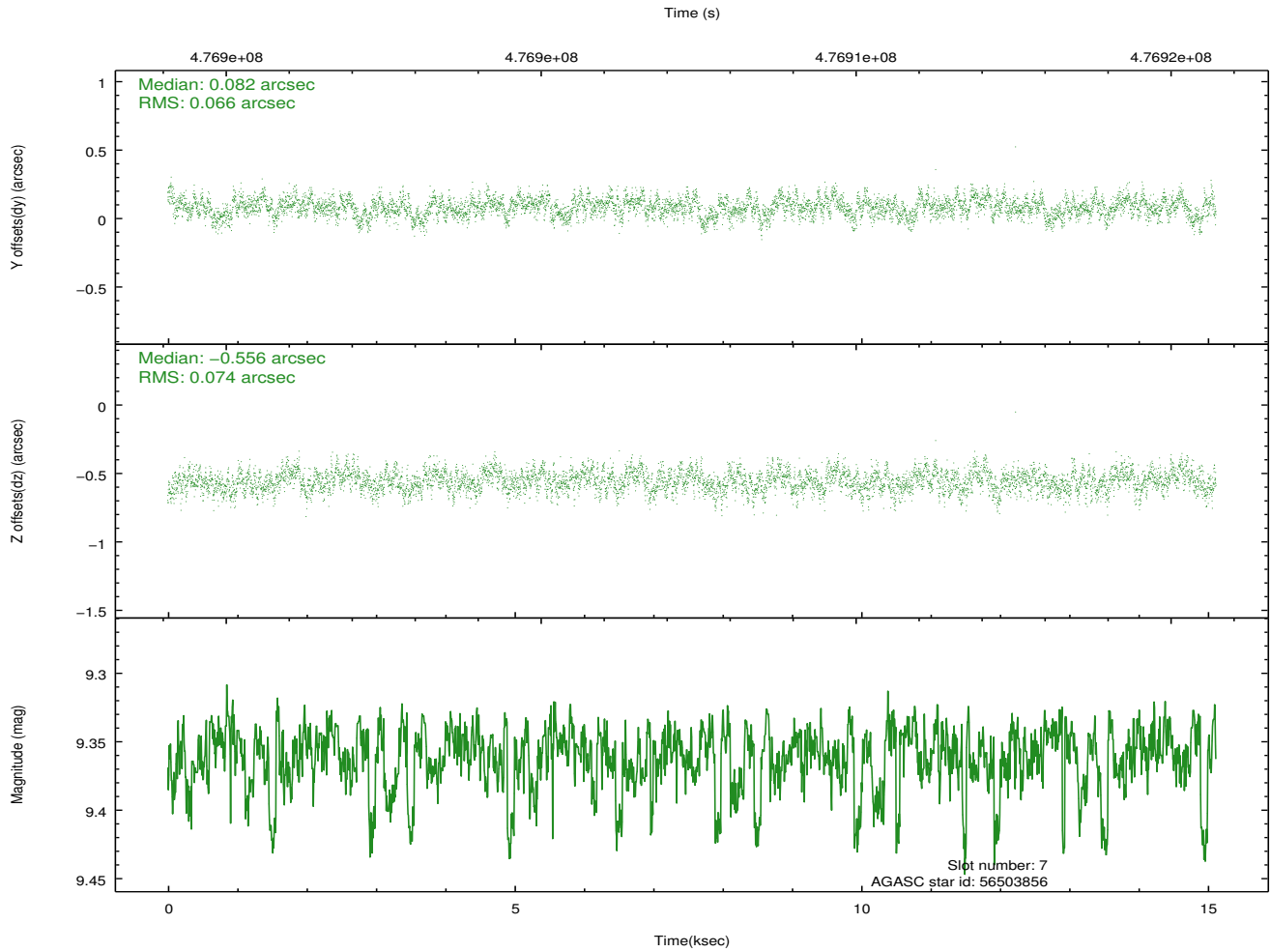
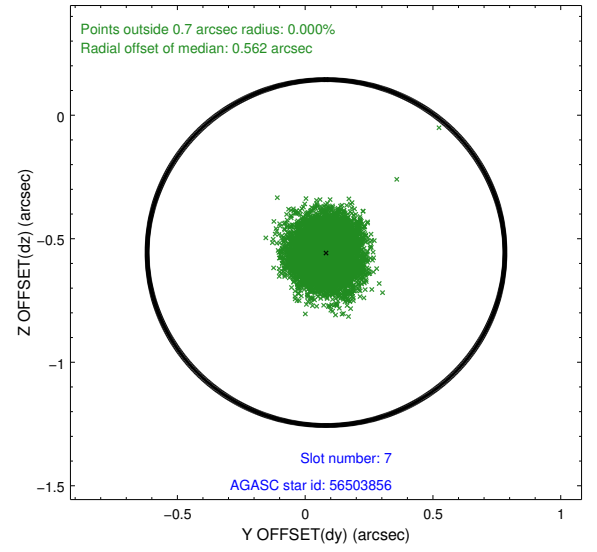
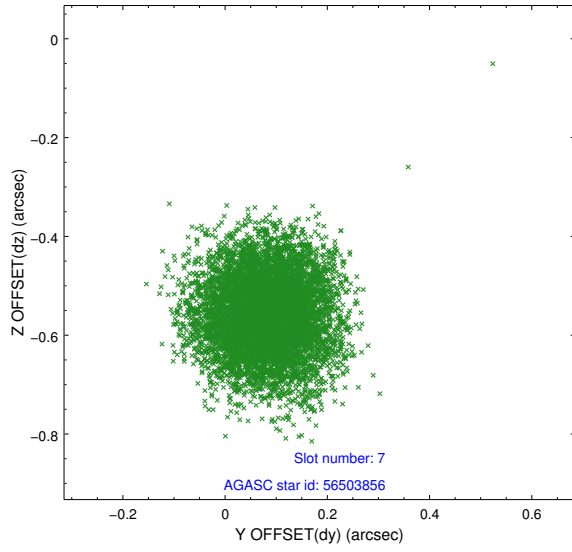
2.4.3 Slot 5



2.4.4 Slot 6

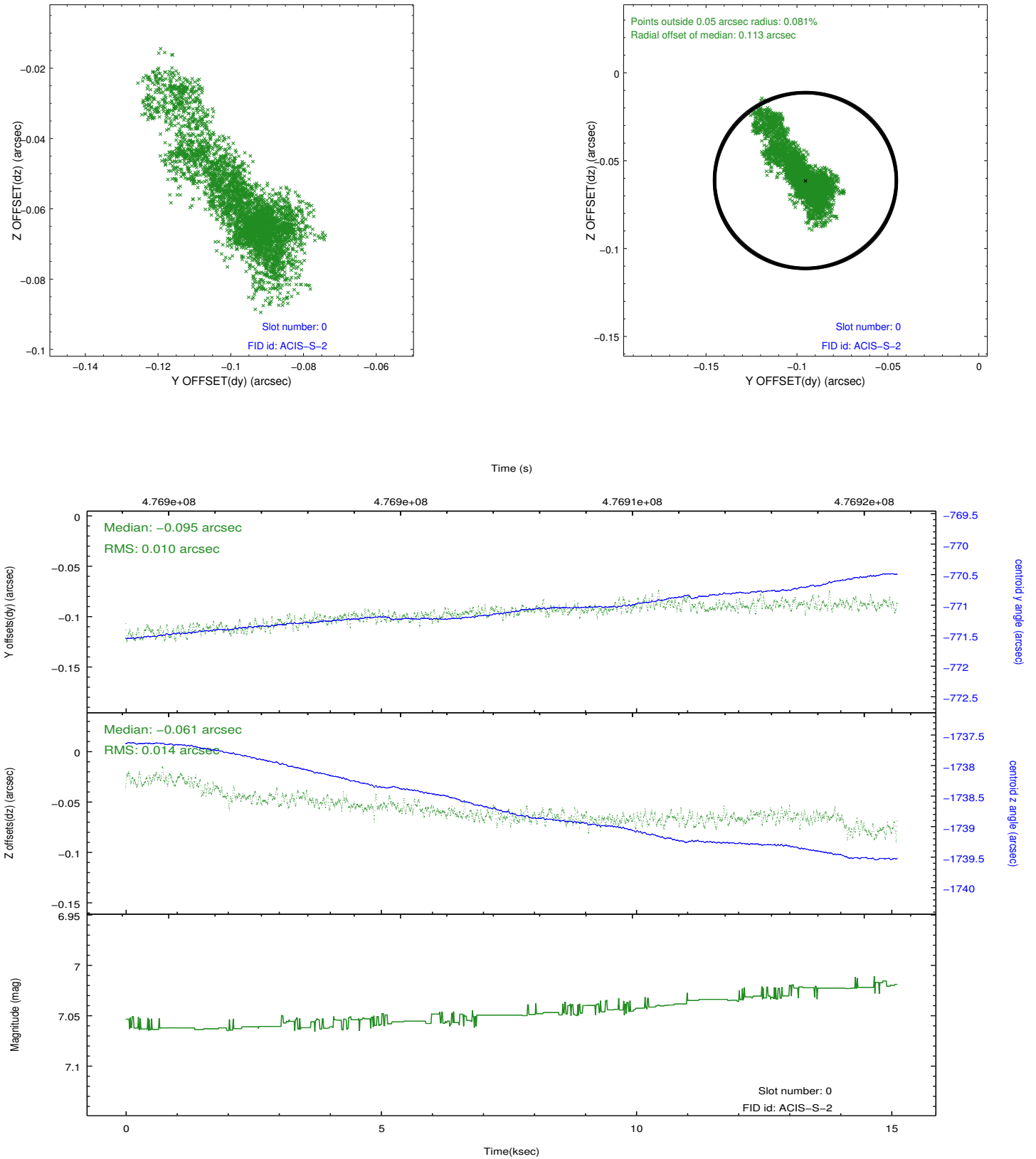


2.4.5 Slot 7

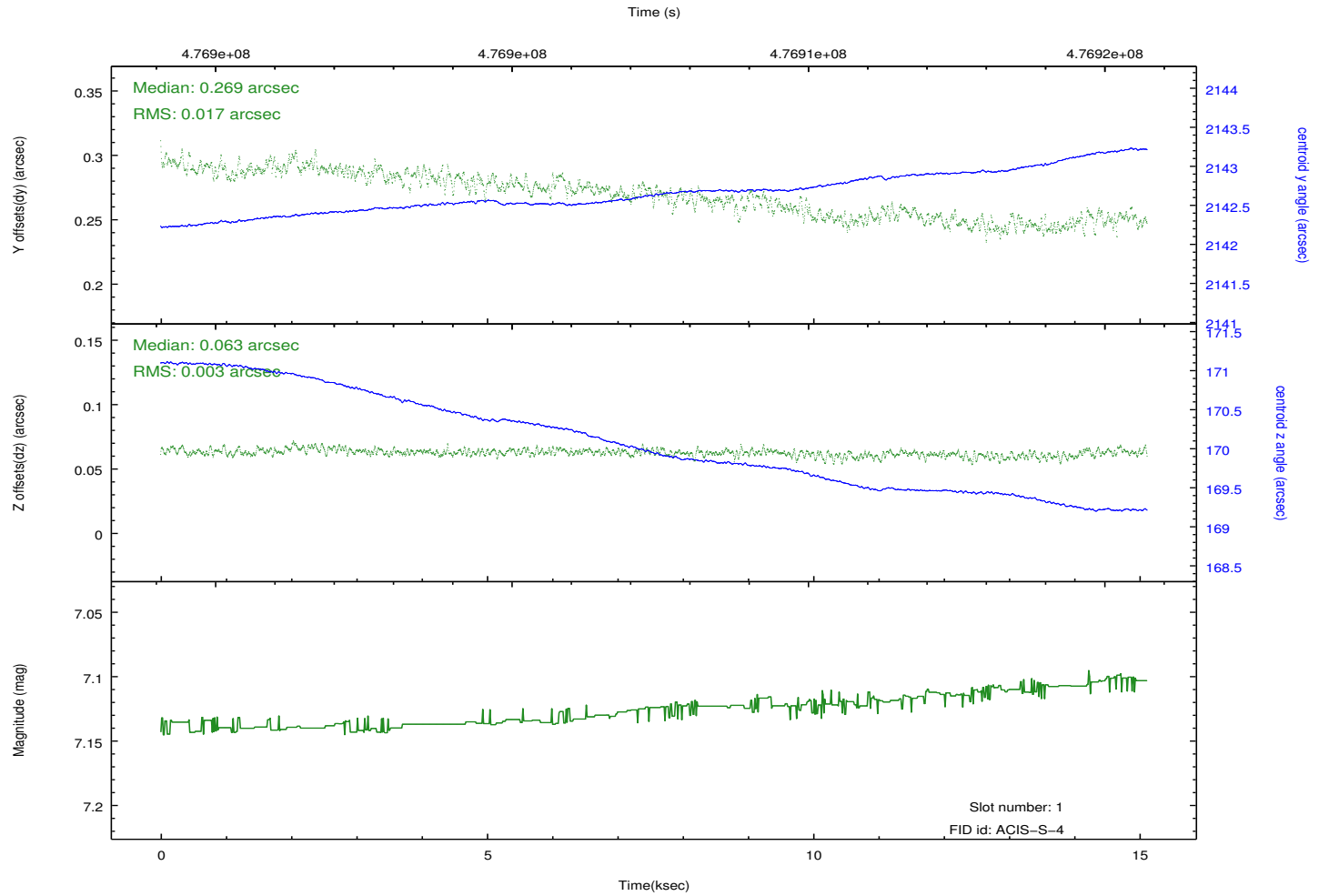
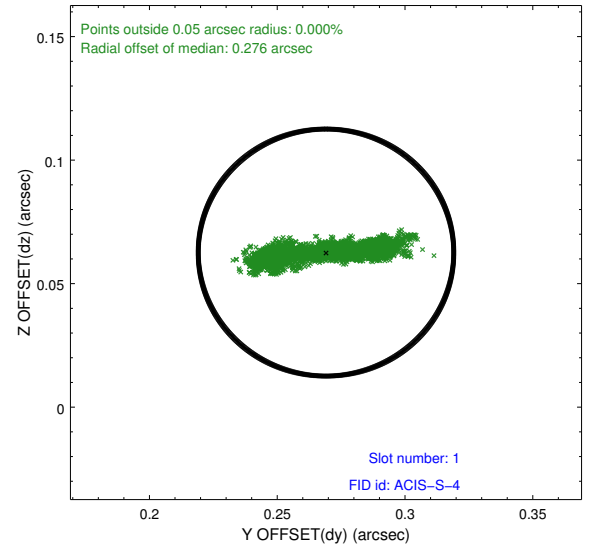
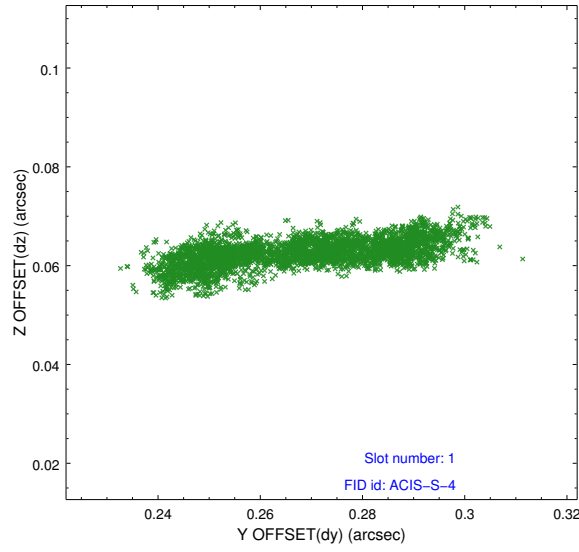


2.5 FID Slots

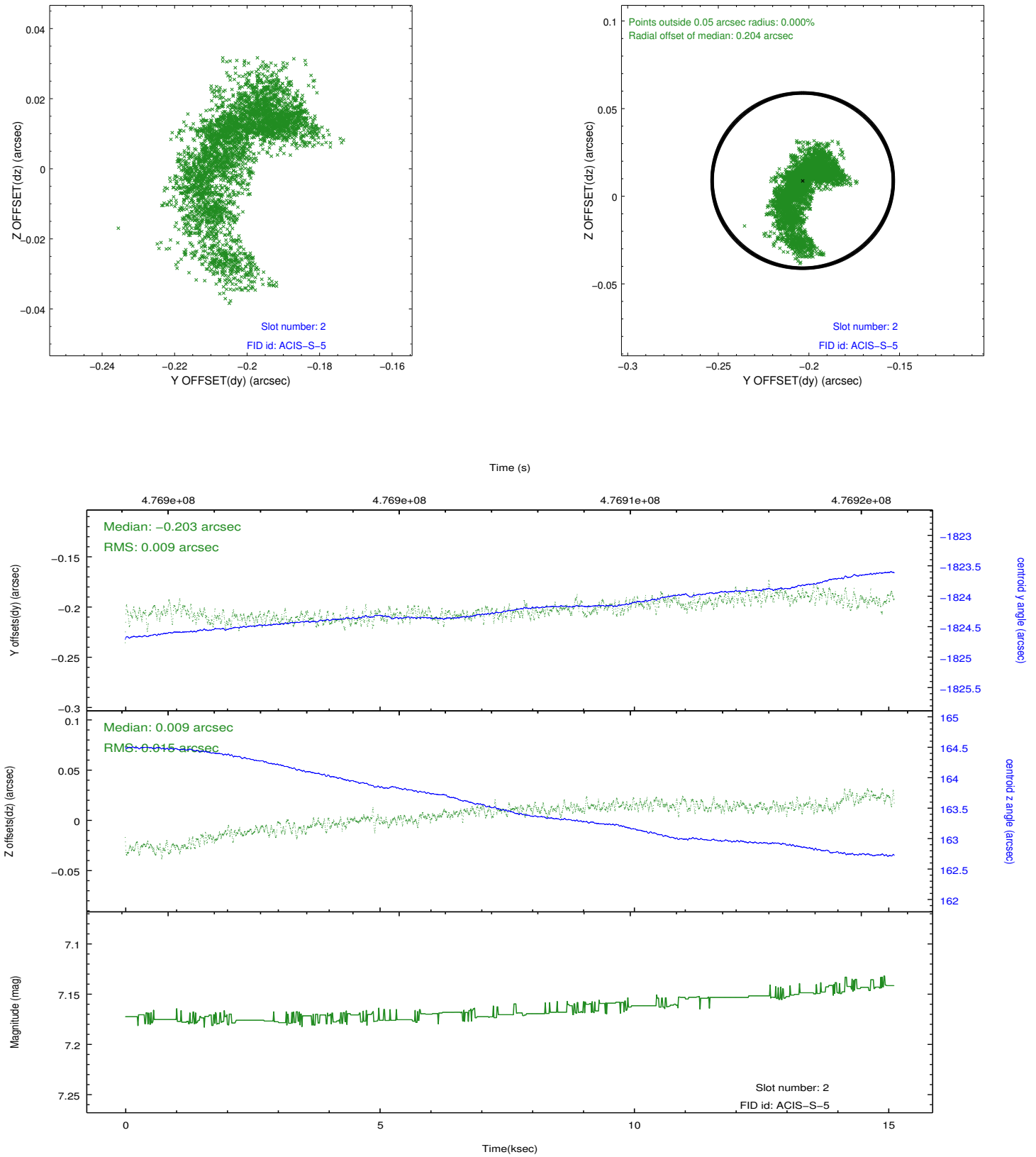
2.5.1 Slot 0



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)	2014.12.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	14.96185577035

A.2 Comments

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.