

V&V Reference Report

L2 ASCDS Version : 8.5.1

Observation 5625 - L2 Version 3
Chandra X-Ray Center

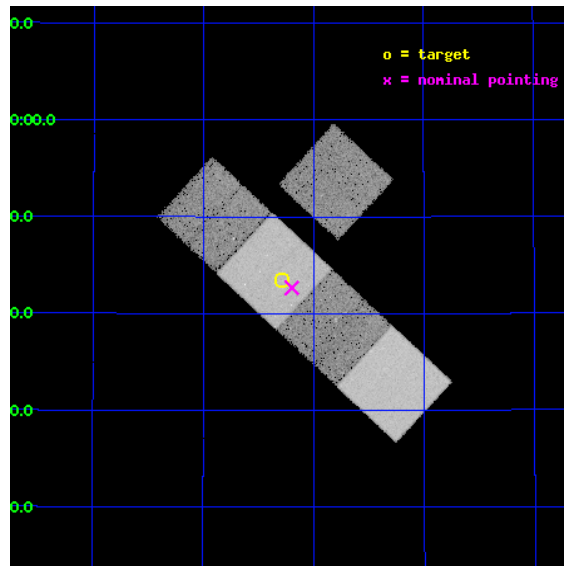
L2 Processing Date : Dec 18 2012

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

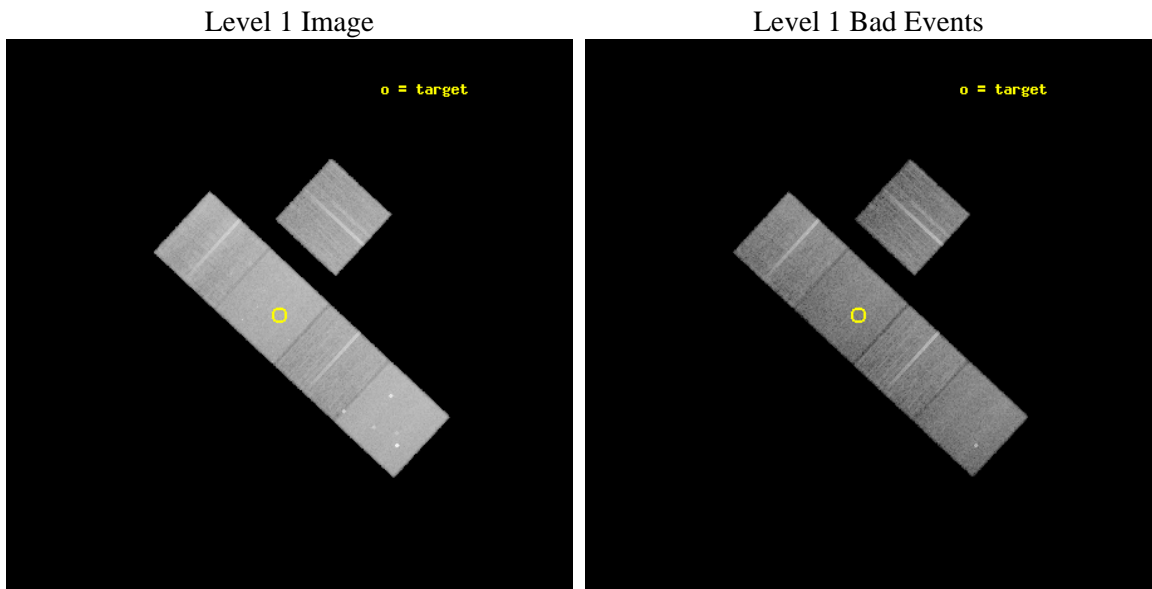
seq_num	701048	Sequence number
obs_id	5625	Observation id
title	Extended inverse Compton emission from distant powerful radio galaxies	Proposal title
observer	Professor Andrew Fabian	Principal investigator
object	6C 0905+3955	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	137.0705	Observer's specified target RA [deg]
dec_targ	39.723889	Observer's specified target Dec [deg]
ra_nom	137.04926011834	Nominal RA [deg]
dec_nom	39.711081611755	Nominal Dec [deg]
roll_nom	222.8789170584	Nominal Roll [deg]
revision	3	Processing version of data
ontime	19936.099961638	Sum of GTIs [s]
livetime	19675.620138896	Livetime [s]
ontime3	19936.099961638	Sum of GTIs [s]
ontime5	19936.099961638	Sum of GTIs [s]
ontime6	19936.099961638	Sum of GTIs [s]
ontime7	19936.099961638	Sum of GTIs [s]
ontime8	19929.817941368	Sum of GTIs [s]
l2events	226629	Number of level 2 events



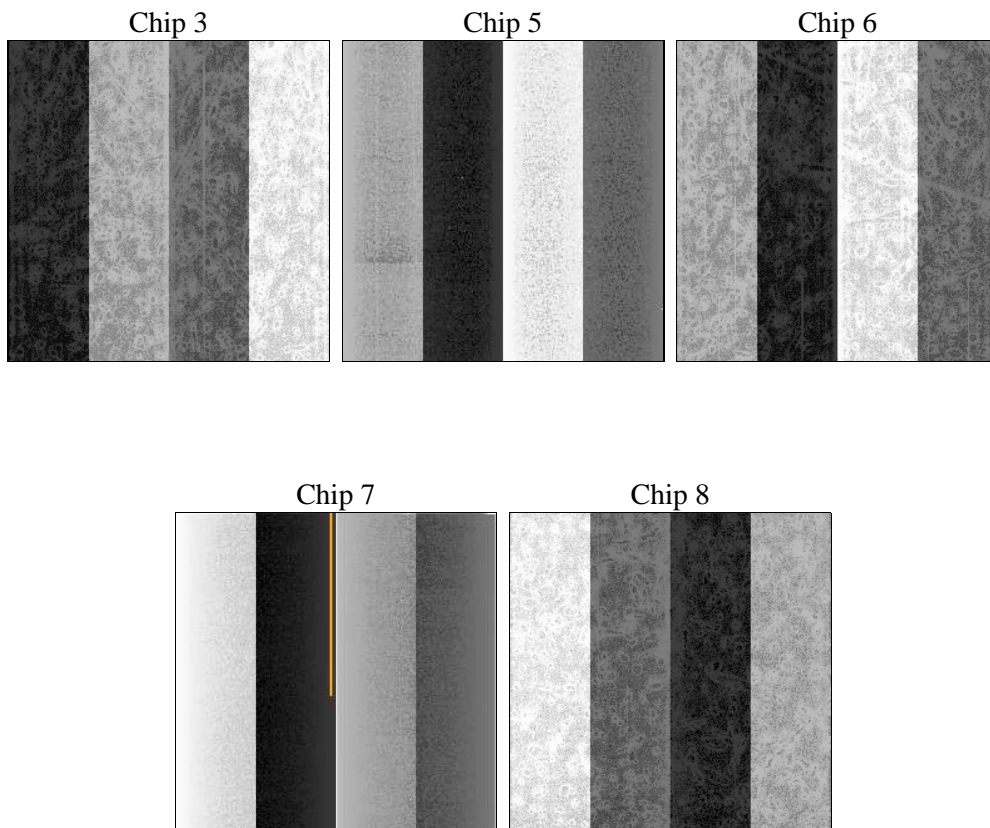
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	19760.000000	[s] Scheduled observation exposure time
ascdsver	8.5.1	Processing system revision	ontime	19936.099961638	Sum of GTIs [s]
caldbver	4.5.5	 	ontime3	19936.099961638	Sum of GTIs [s]
date	2012-12-18T05:50:25	Date and time of file creation	ontime5	19936.099961638	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	19936.099961638	Sum of GTIs [s]
			ontime7	19936.099961638	Sum of GTIs [s]
			ontime8	19929.817941368	Sum of GTIs [s]
			l1events	971925	Number of level 1 events

2.1.4 Events

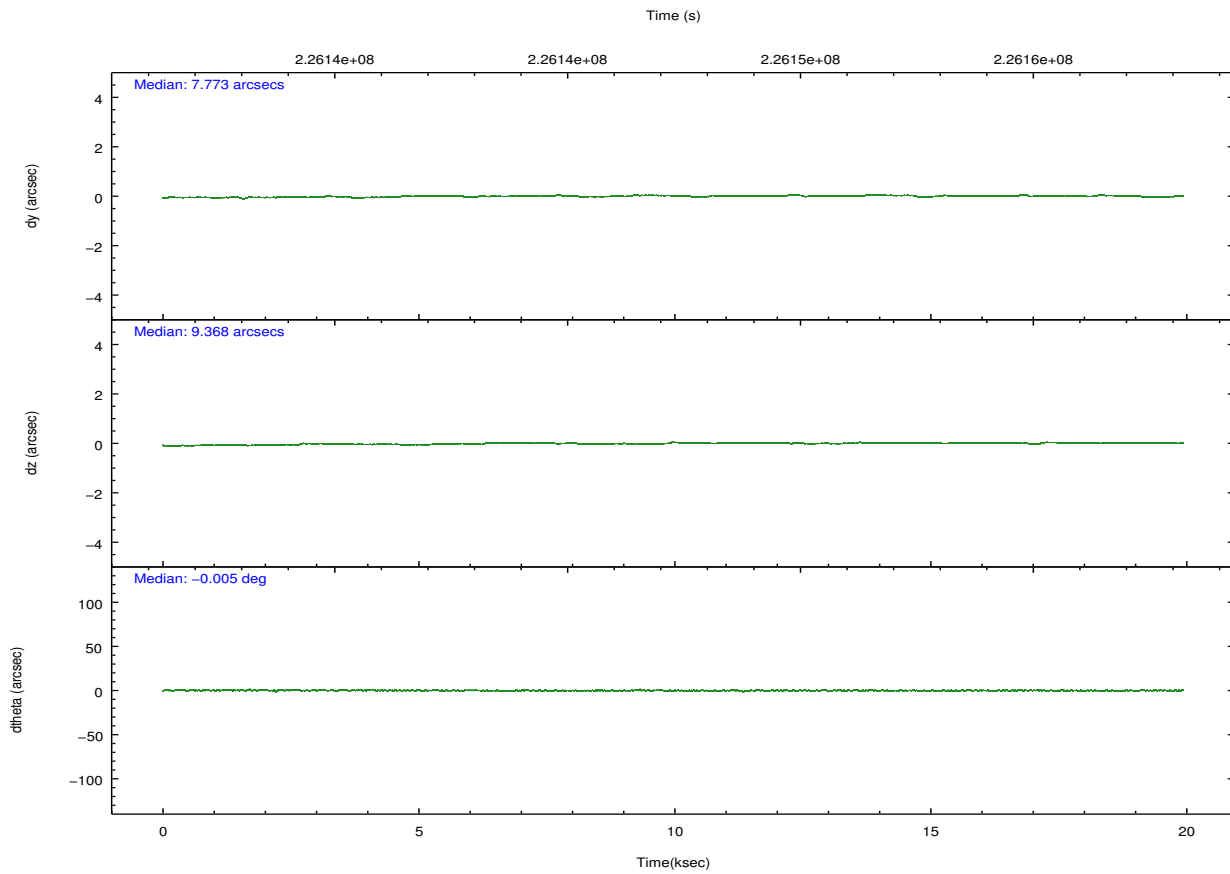
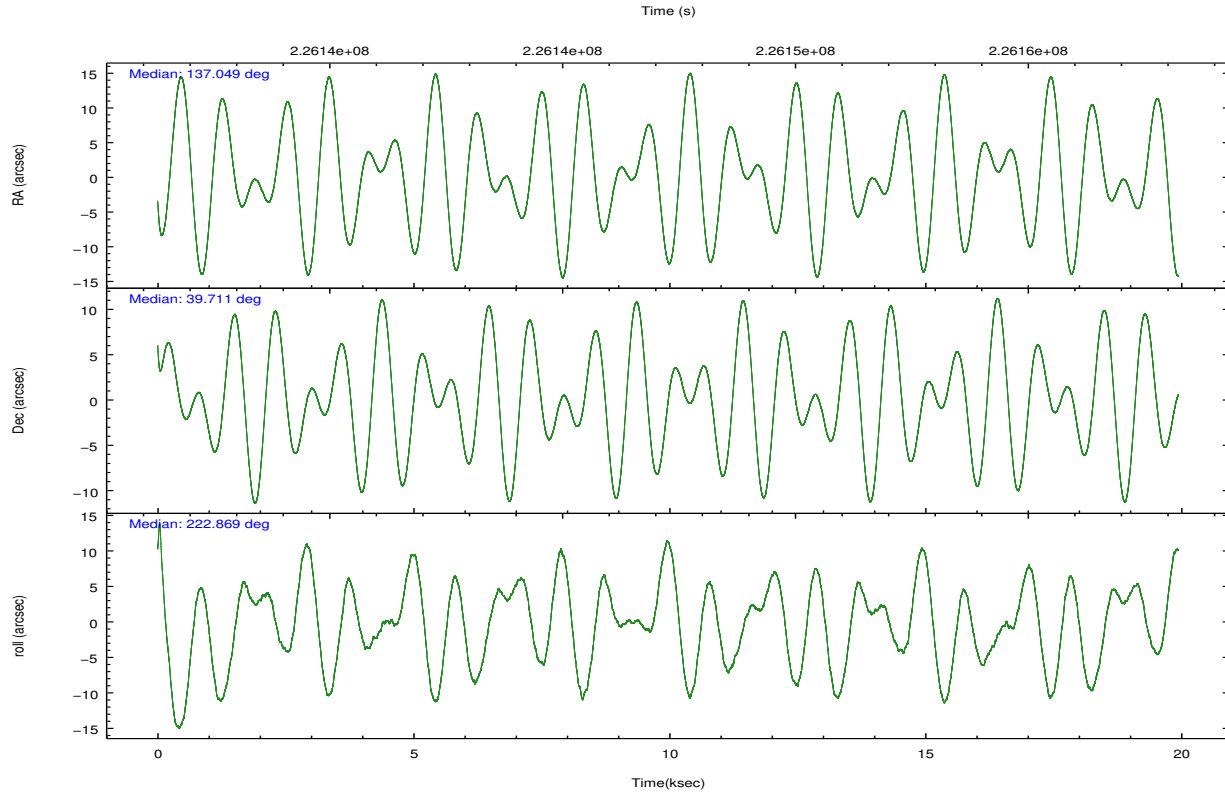
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	153734	241278	160760	214624	201529
rejected events	136155	136482	142420	130849	159743
rejected %	88%	56%	88%	60%	79%

	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	8169	12920	7730	7875	13705
	5%	5%	4%	3%	6%
grade 1 events	87	925	80	211	127
	0%	0%	0%	0%	0%
grade 2 events	3514	32910	4086	17556	9783
	2%	13%	2%	8%	4%
grade 3 events	1868	4174	1830	7807	4563
	1%	1%	1%	3%	2%
grade 4 events	1800	4116	1860	7747	4207
	1%	1%	1%	3%	2%
grade 5 events	7036	17333	7430	20287	9390
	4%	7%	4%	9%	4%
grade 6 events	3311	57398	3855	47645	11651
	2%	23%	2%	22%	5%
grade 7 events	127949	111502	133889	105496	148103
	83%	46%	83%	49%	73%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-35678	ACIS-35678	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	137.059231	137.0492601183445	Subarray requested	NONE	NONE
[deg] Pointing Dec	39.737212	39.71108161175497	Alternating exposures requested	N	N
[deg] Pointing Roll	222.715916	222.8789170583998	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	226137470.184000	226135871.12245			
Observation start date	2005-03-02T07:56:46	2005-03-02T07:31:11			
[s] Observation end time (MET)	226157230.184000	226157923.99845			
Observation end date	2005-03-02T13:26:06	2005-03-02T13:38:43			
Read mode	TIMED	TIMED			

2.3 Aspect

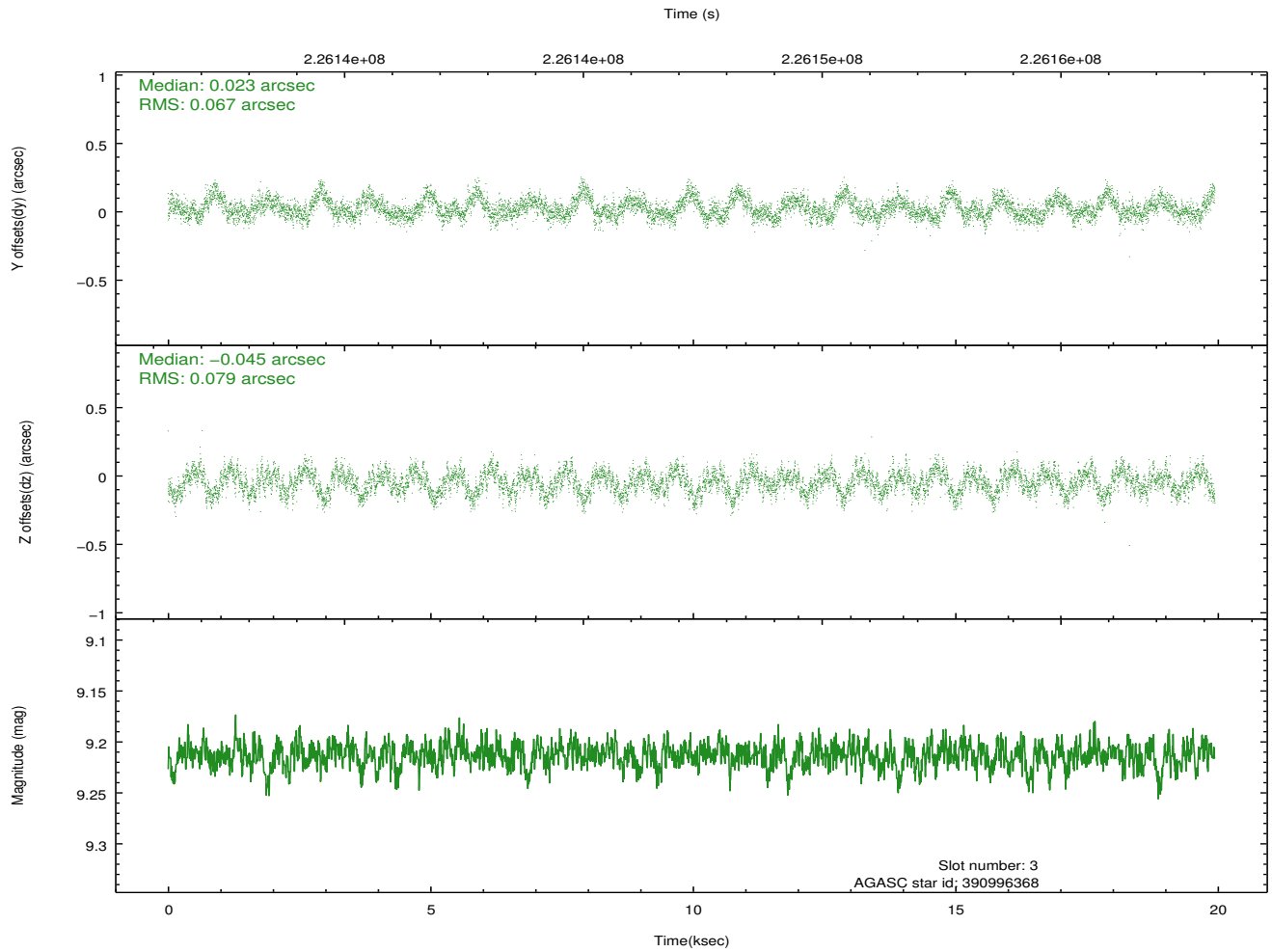
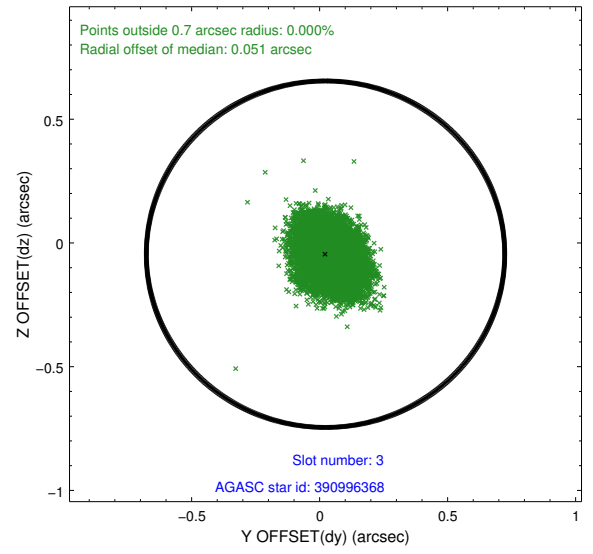
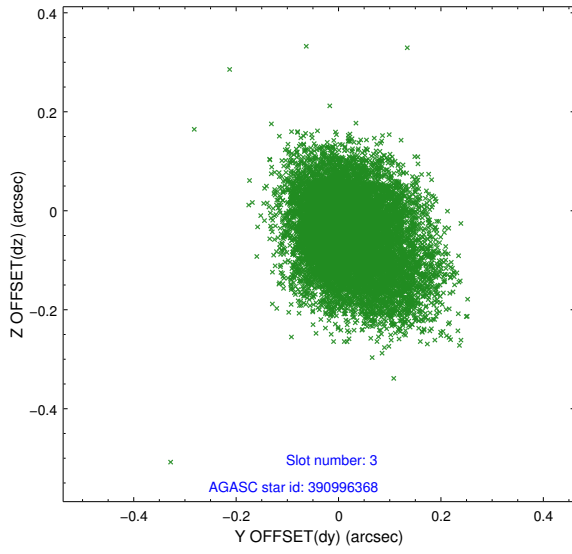


Slot Statistics

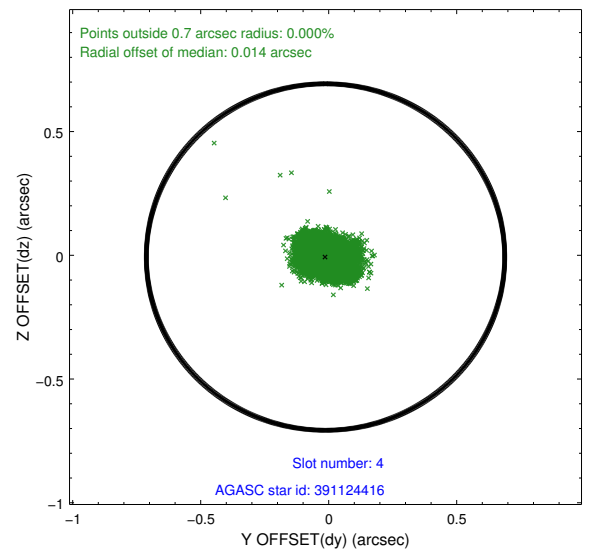
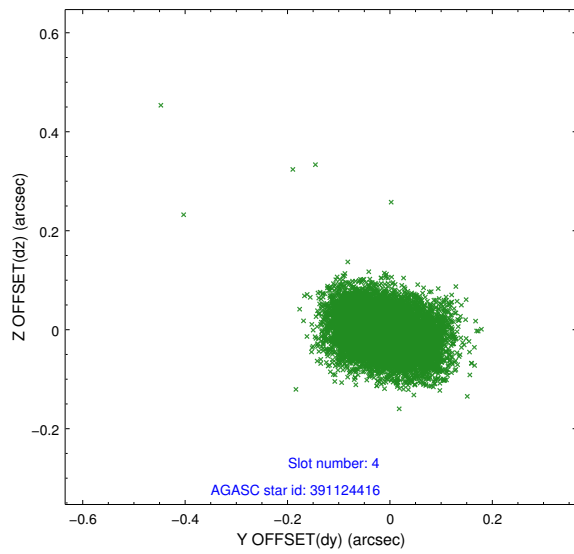
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	4864	-0.030	-0.035	0.007	0.012	0.000000	0.000000	-760.54	-1730.58
1	FID	ACIS-S-4	7.21	4864	0.094	0.024	0.006	0.012	0.000000	0.000000	2152.74	177.81
2	FID	ACIS-S-5	7.24	4864	-0.096	0.020	0.007	0.011	0.000000	0.000000	-1813.24	171.63
3	GUIDE	390996368	9.21	9727	0.023	-0.045	0.110	0.176	136.292846	39.913745	1118.20	-1908.45
4	GUIDE	391124416	8.29	9726	-0.012	-0.007	0.071	0.116	137.712866	39.787688	-1455.91	1088.39
5	GUIDE	391126168	9.44	9720	0.026	-0.045	0.096	0.159	137.890130	39.560587	-1270.62	2024.12
6	GUIDE	391387880	8.96	9711	0.030	0.053	0.090	0.145	136.392065	40.136594	369.66	-2306.18
7	GUIDE	391516944	7.71	9726	-0.074	0.050	0.064	0.100	137.454409	40.156231	-1823.48	-372.48

2.4 Star Slots

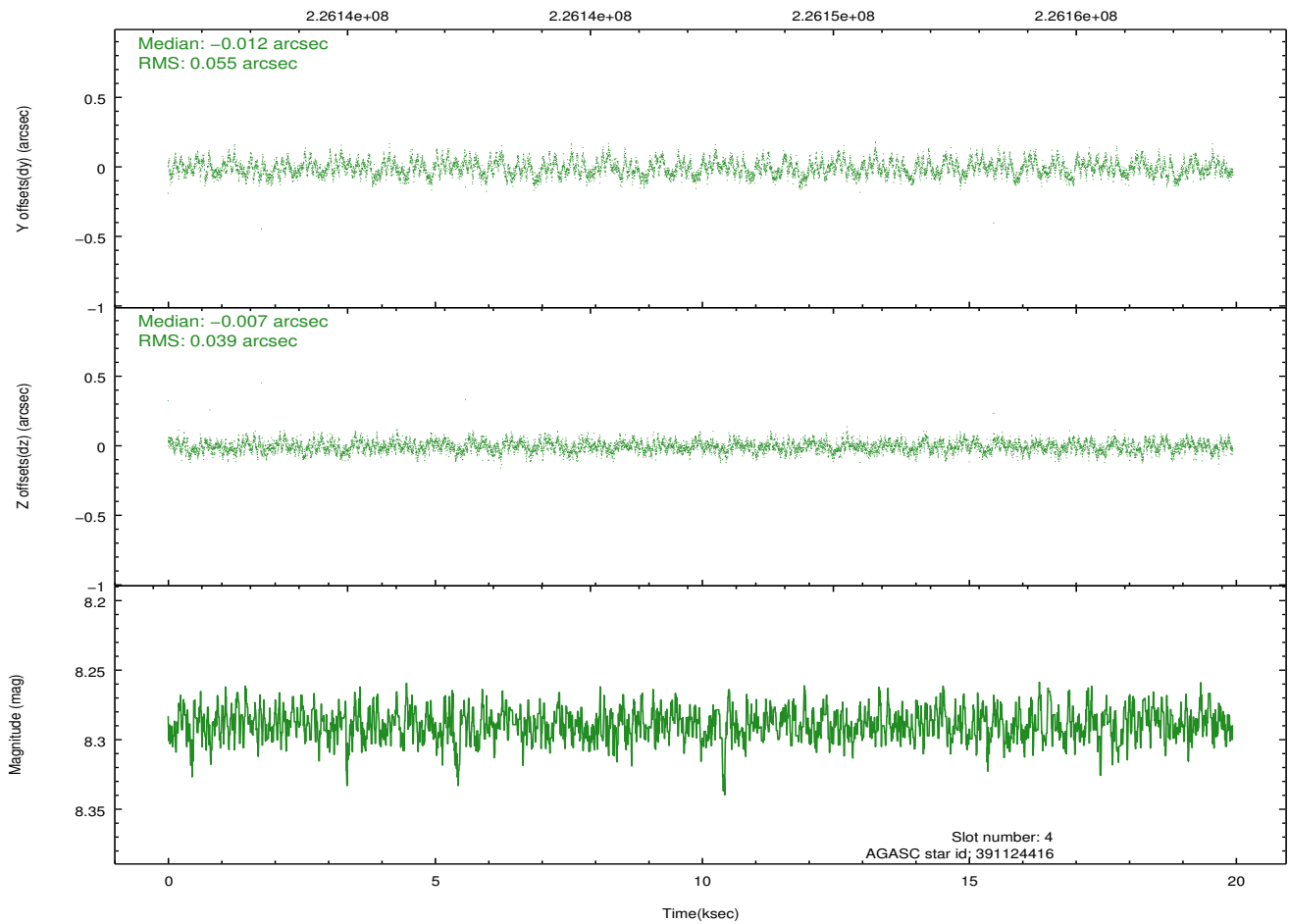
2.4.1 Slot 3



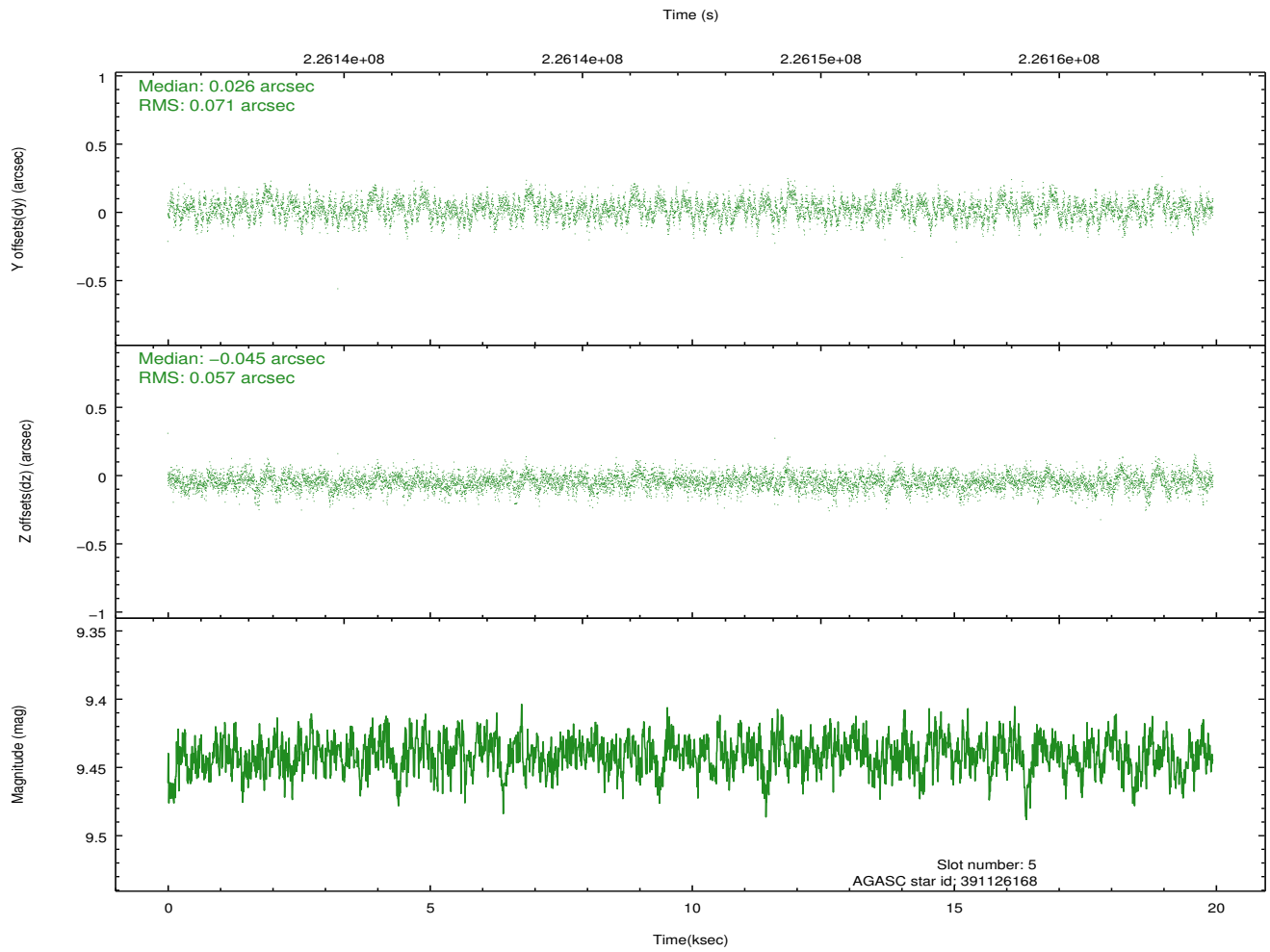
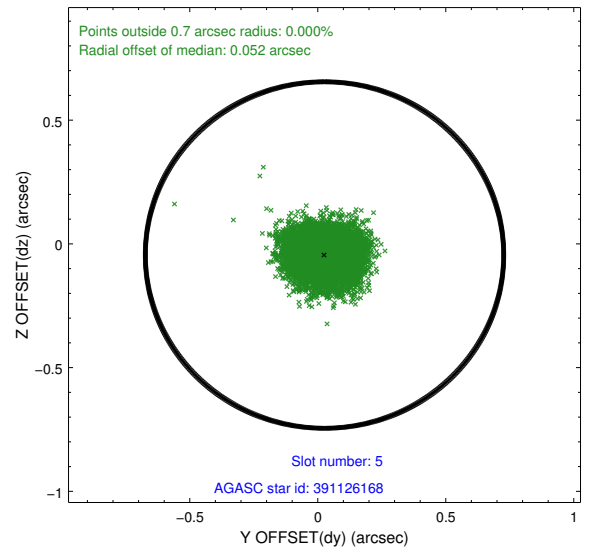
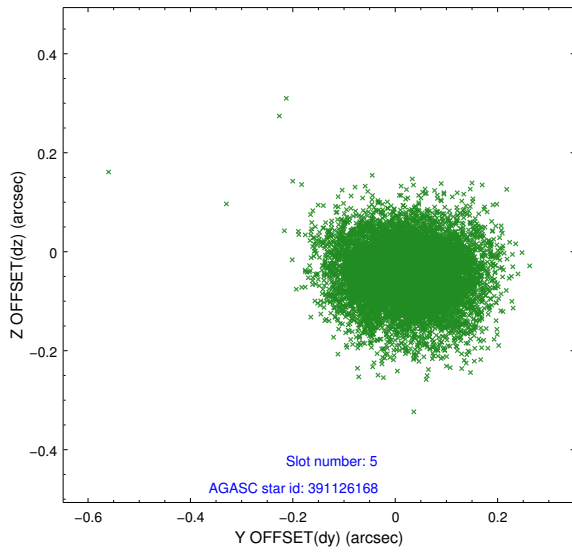
2.4.2 Slot 4



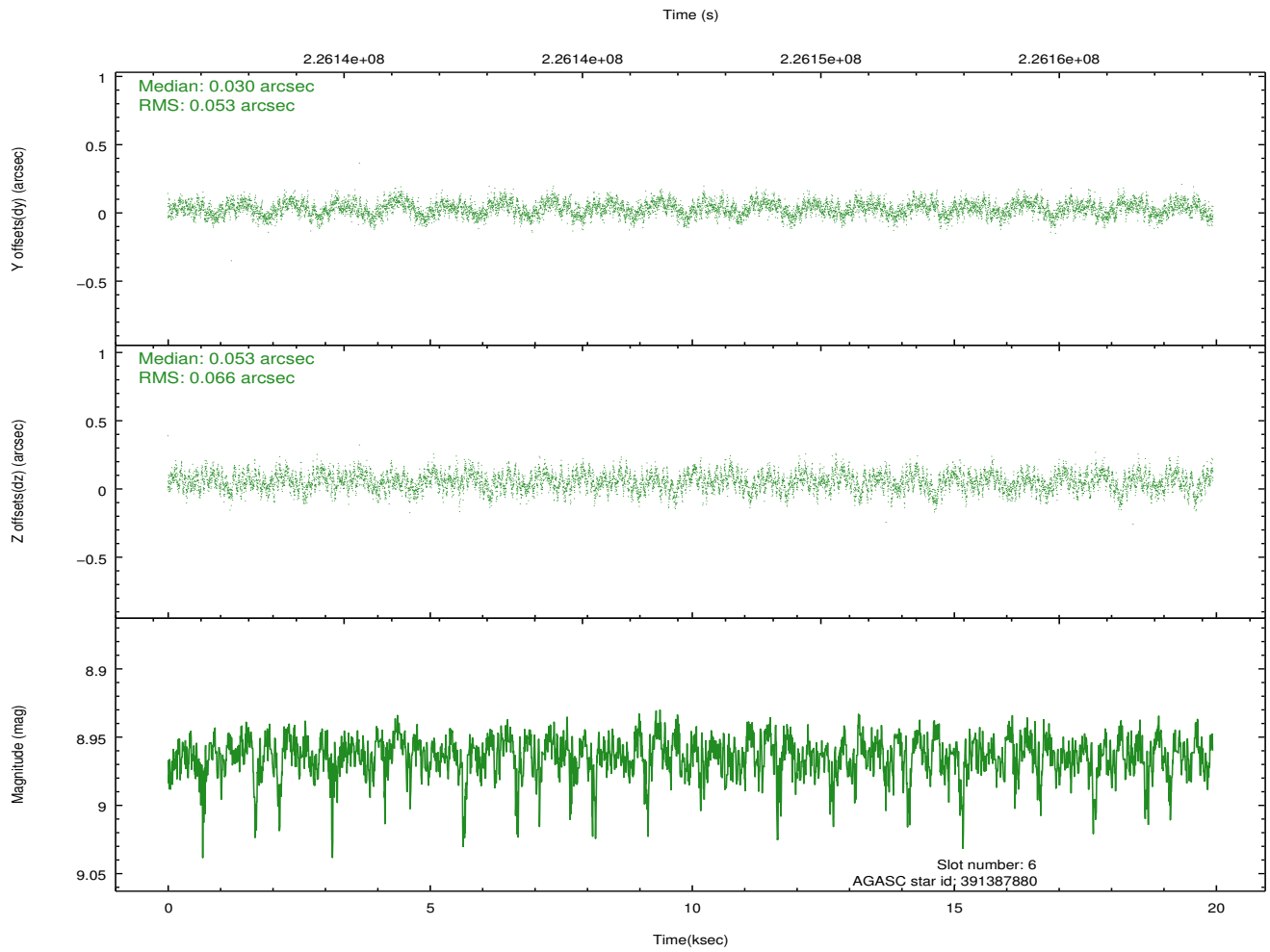
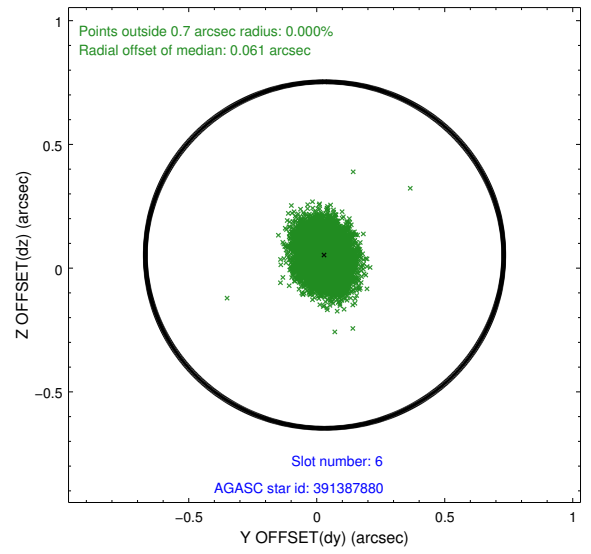
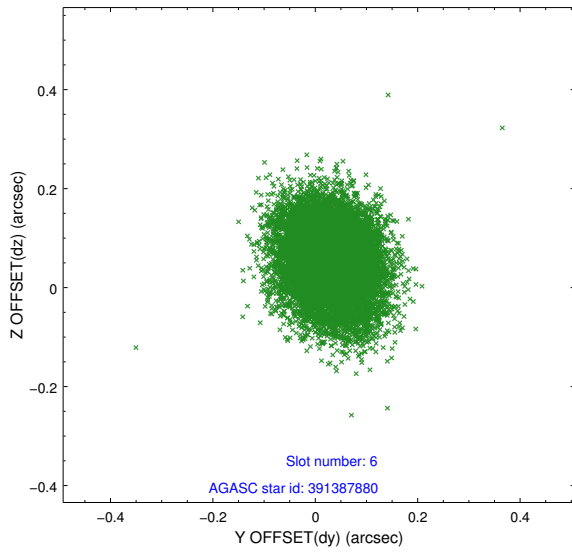
Time (s)



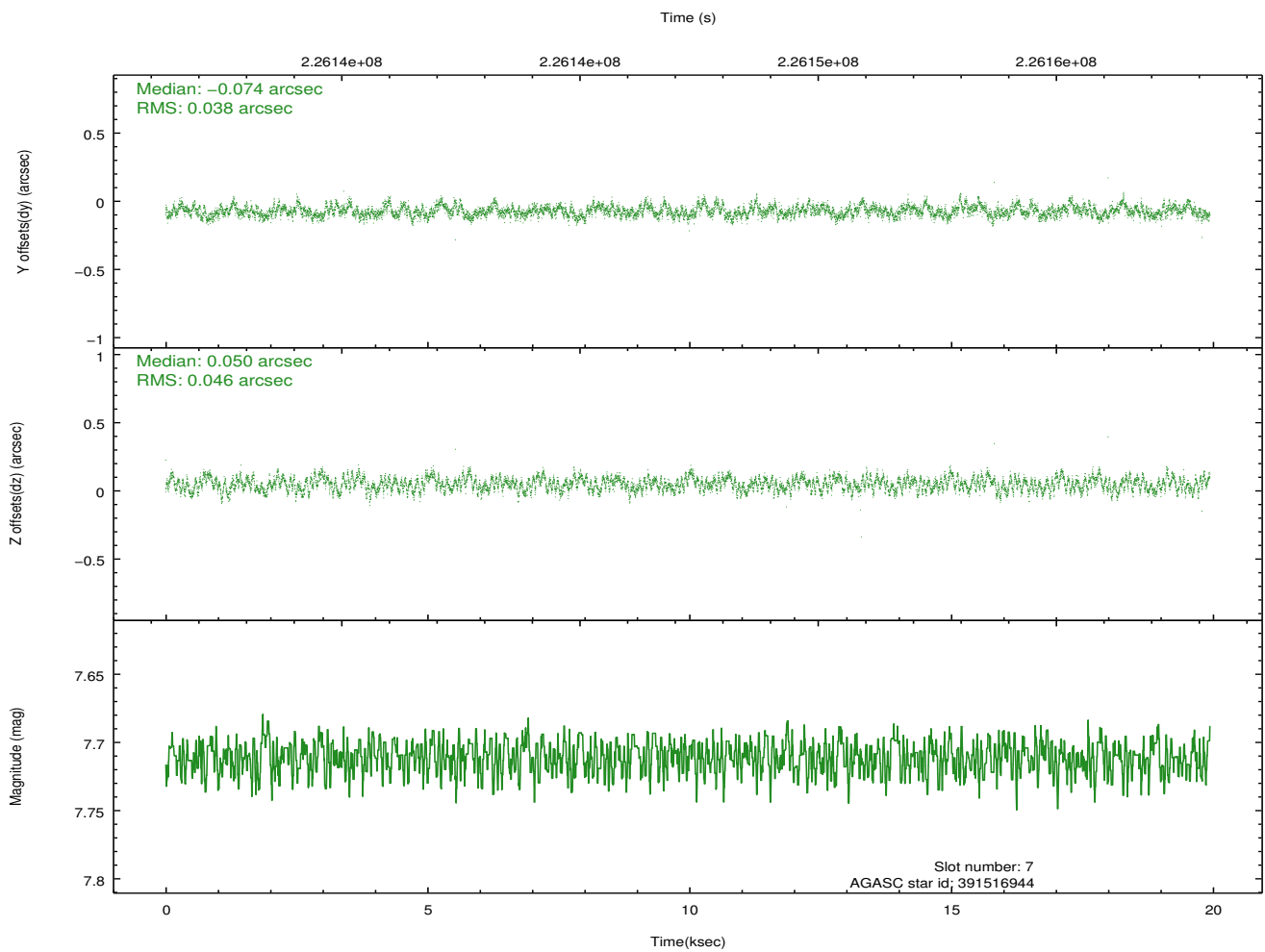
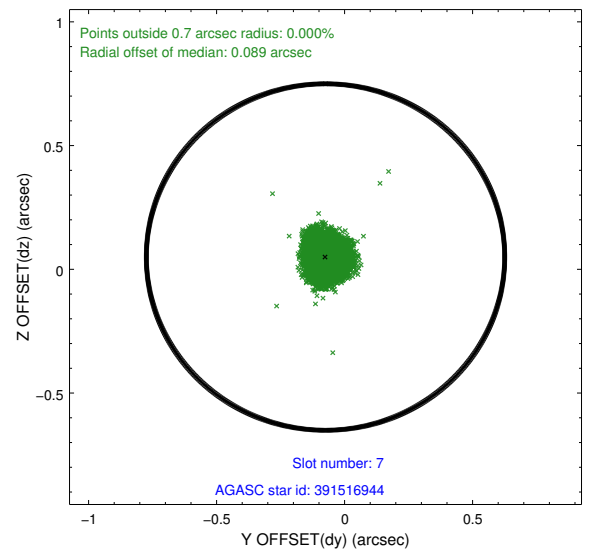
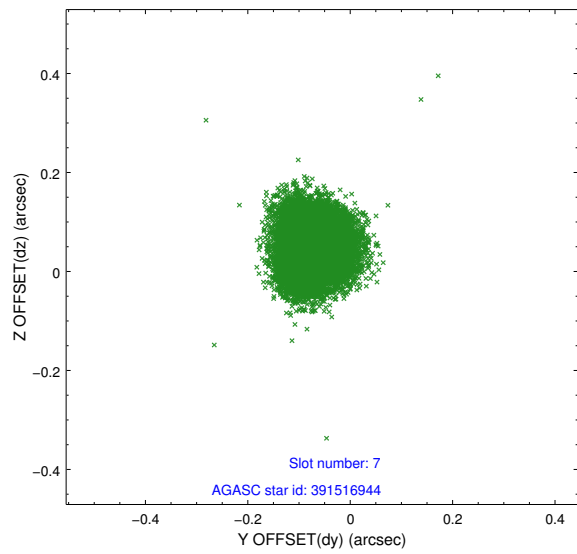
2.4.3 Slot 5



2.4.4 Slot 6

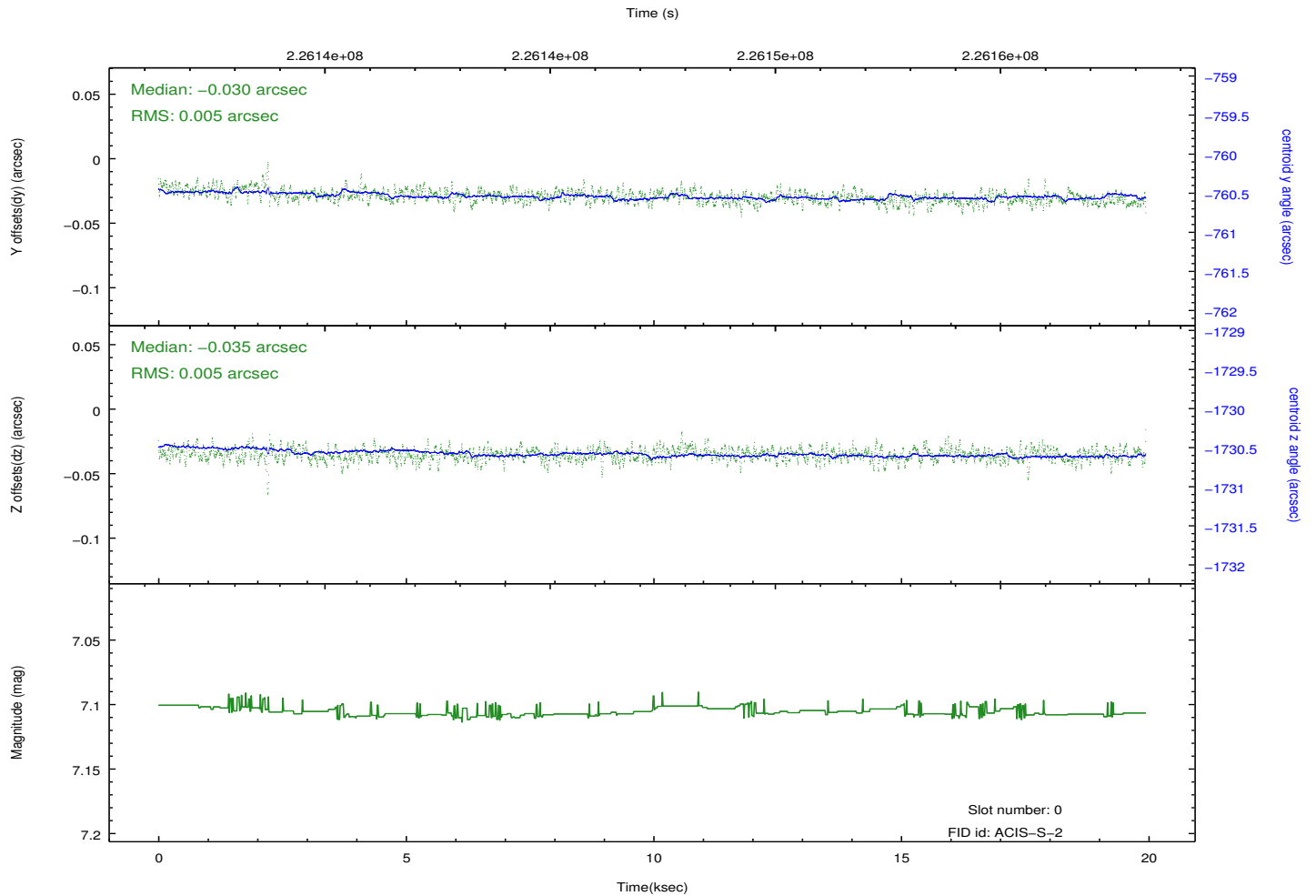
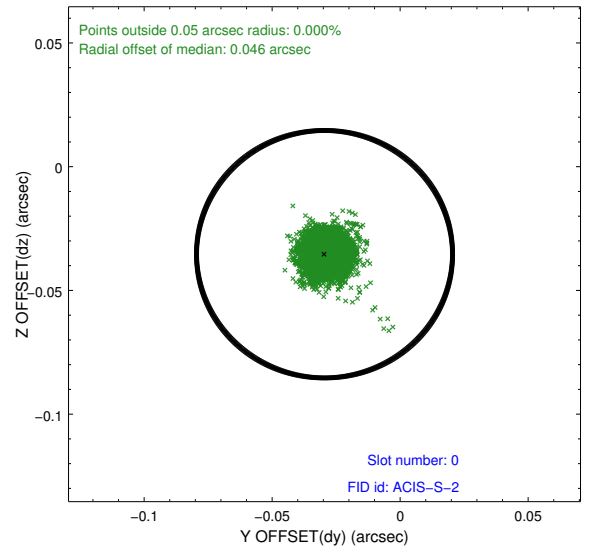
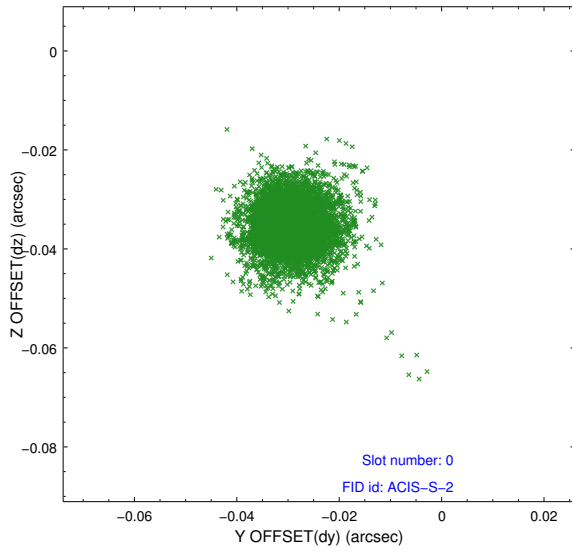


2.4.5 Slot 7

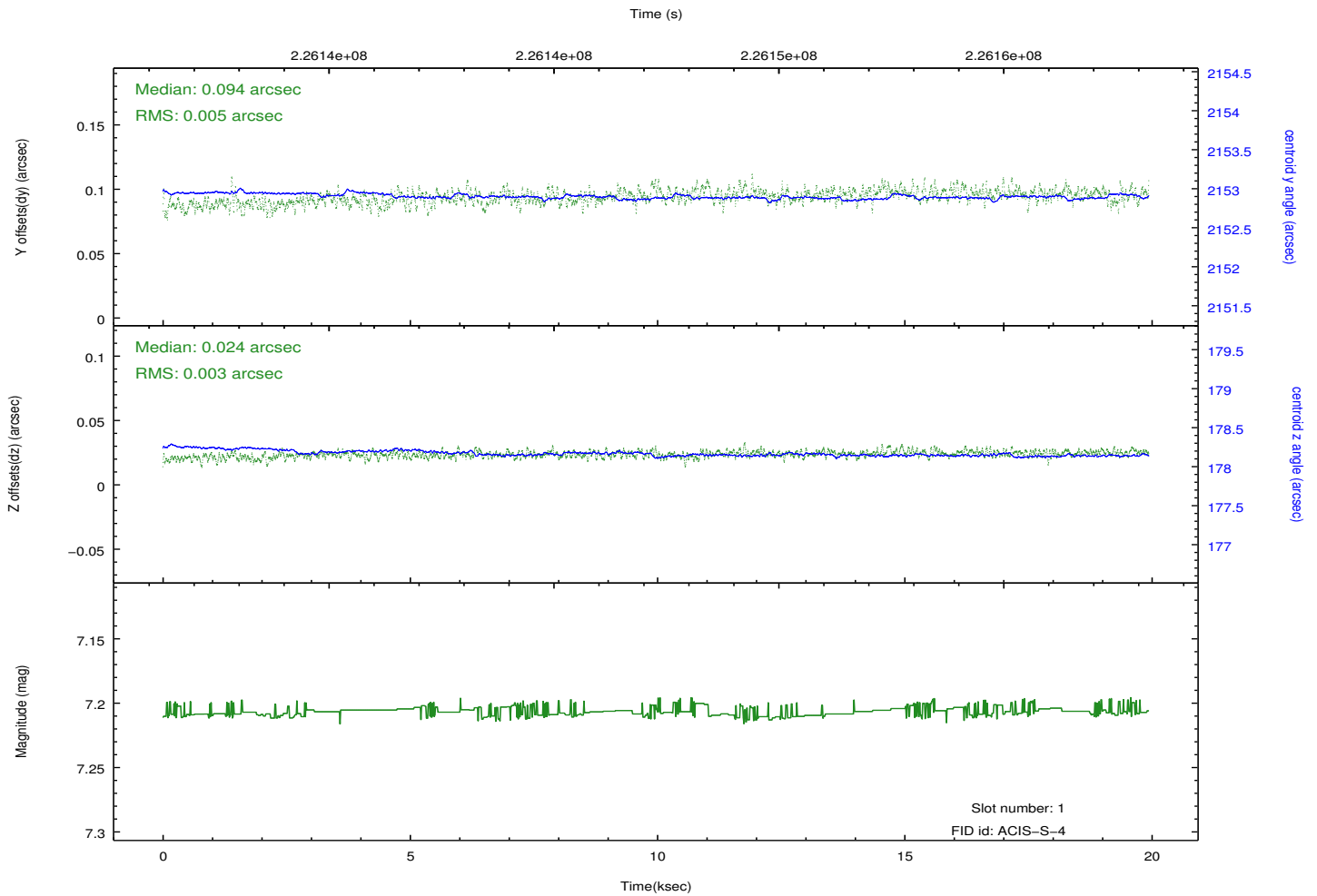
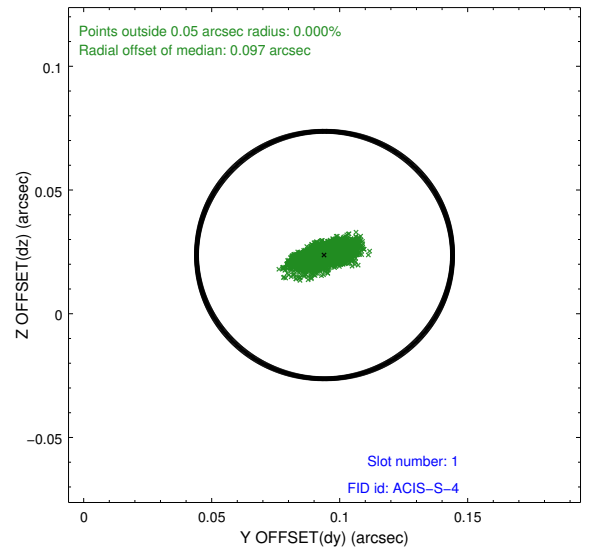
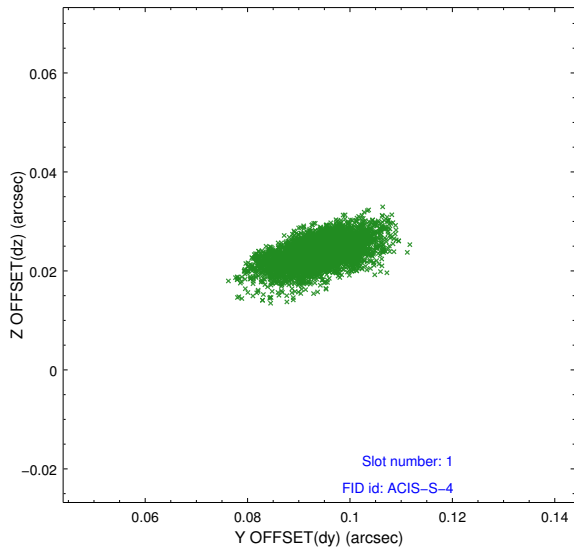


2.5 FID Slots

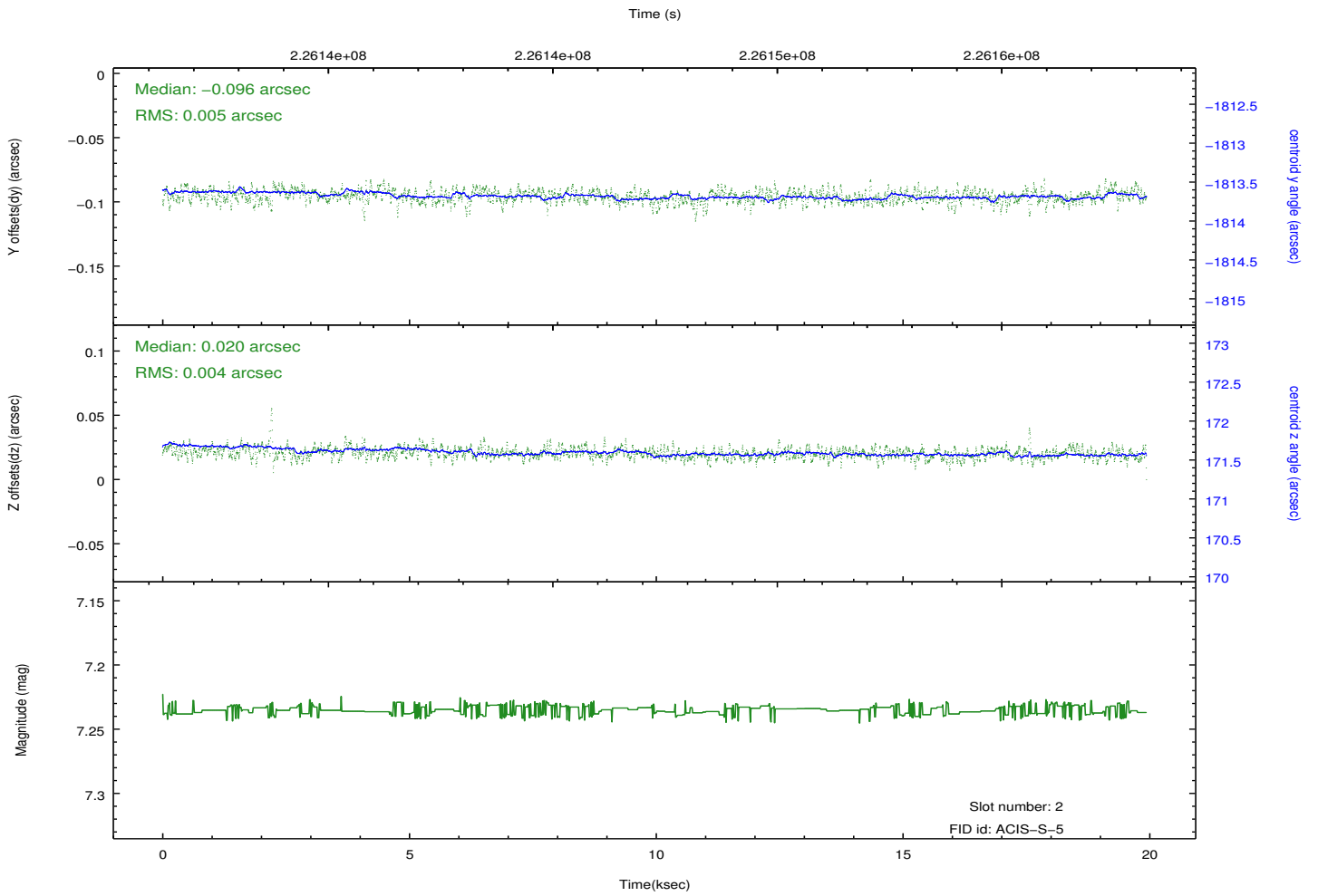
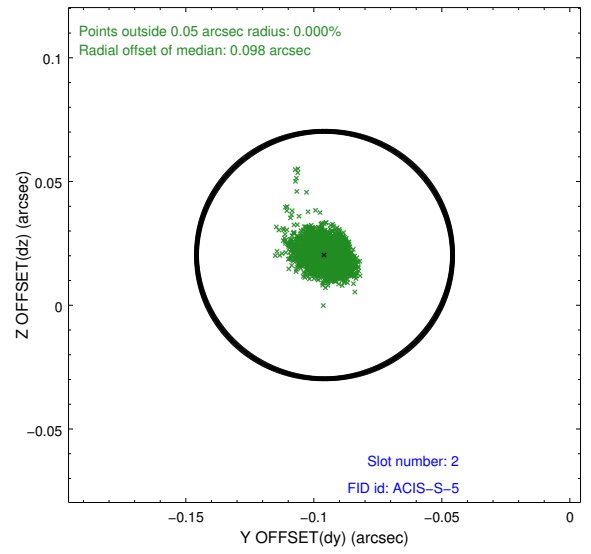
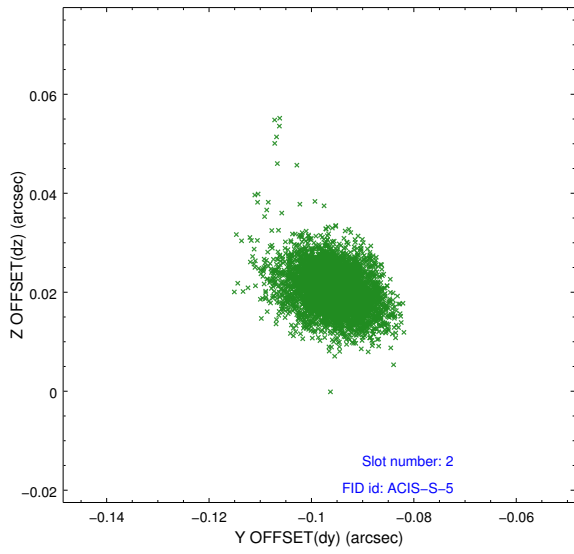
2.5.1 Slot 0



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)	2013.01.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	19.93609

A.2 Comments