

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 18233 - L2 Version 1
Chandra X-Ray Center

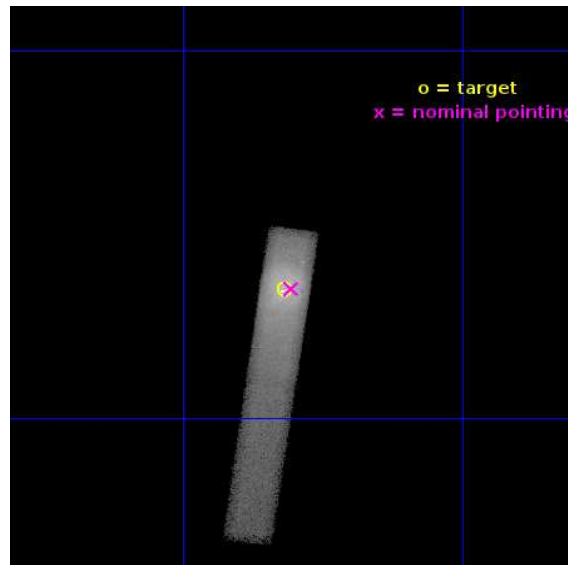
L2 Processing Date : Feb 29 2016

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1 Front

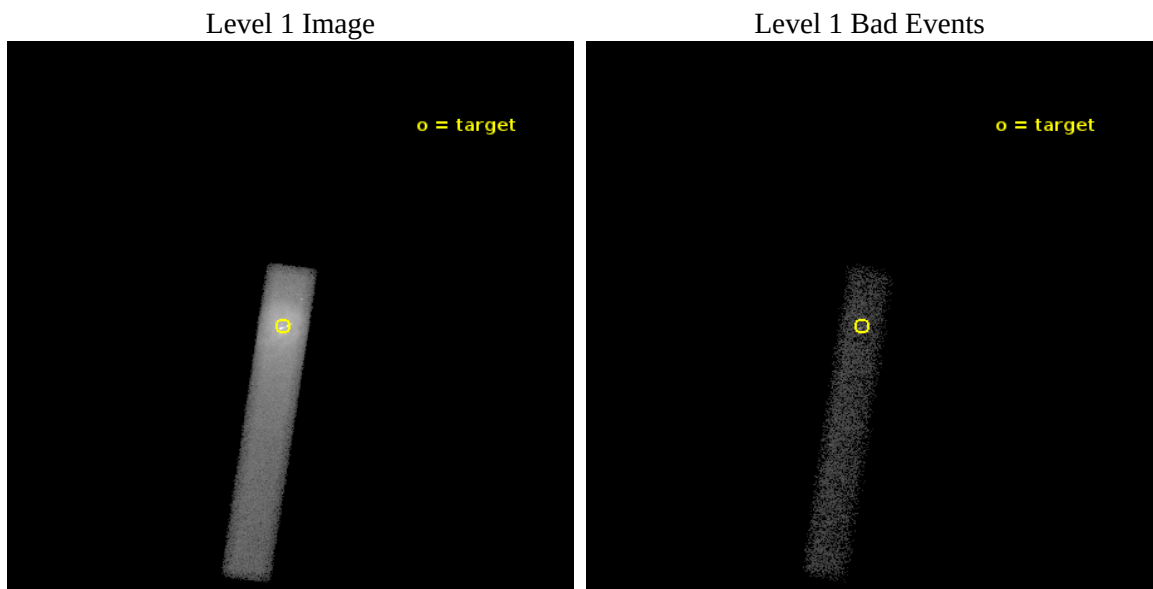
seq_num	801560	Sequence number
obs_id	18233	Observation id
title	The imprints of AGN feedback within the Bondi radius of M87	Propos
observer	Dr Helen Russell	Principal investigator
object	M87	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	187.704167	Observer's specified target RA [deg]
dec_targ	12.391667	Observer's specified target Dec [deg]
ra_nom	187.70142219031	Nominal RA [deg]
dec_nom	12.392123136591	Nominal Dec [deg]
roll_nom	98.157214358017	Nominal Roll [deg]
revision	1	Processing version of data
ontime	41068.79755199	Sum of GTIs [s]
livetime	37247.231590776	Livetime [s]
ontime7	41068.79755199	Sum of GTIs [s]
l2events	263936	Number of level 2 events



2 OBI

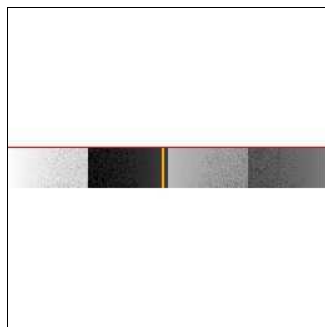
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	41000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	41068.79755199	Sum of GTIs [s]
caldsver	4.7.0	 	ontime7	41068.79755199	Sum of GTIs [s]
date	2016-02-24T12:34:08	Date and time of file creation	l1events	291322	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

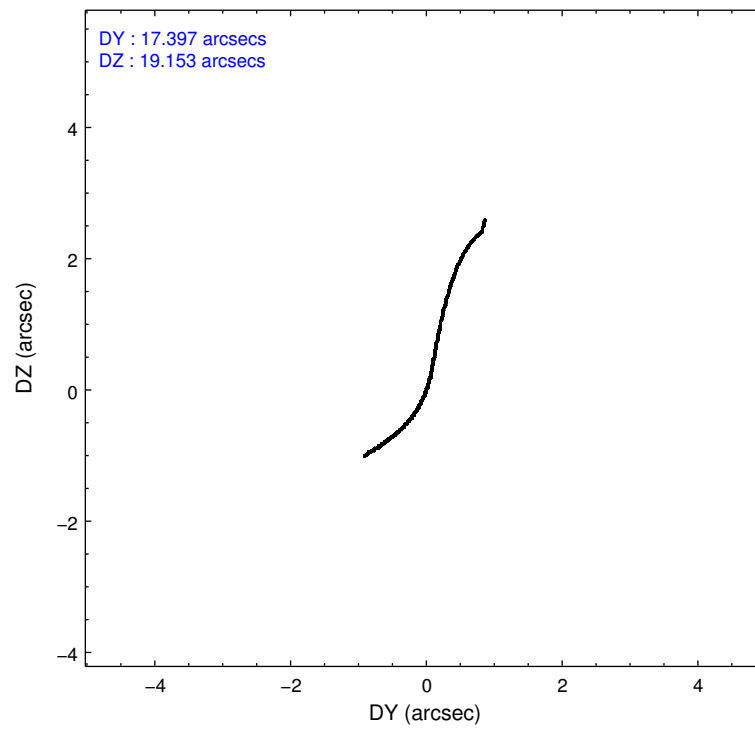
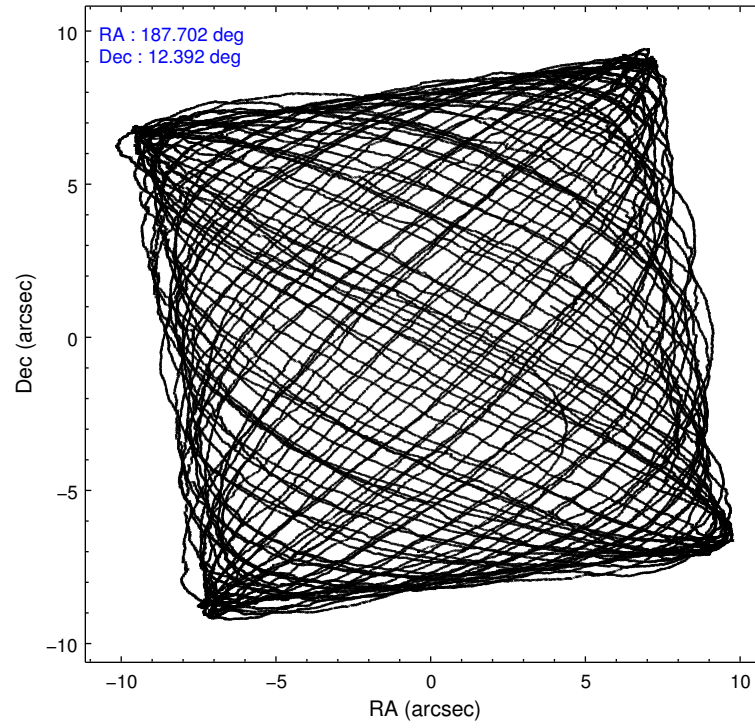
	ccd 7
level 1 events	291322
rejected events	24851
rejected %	8%

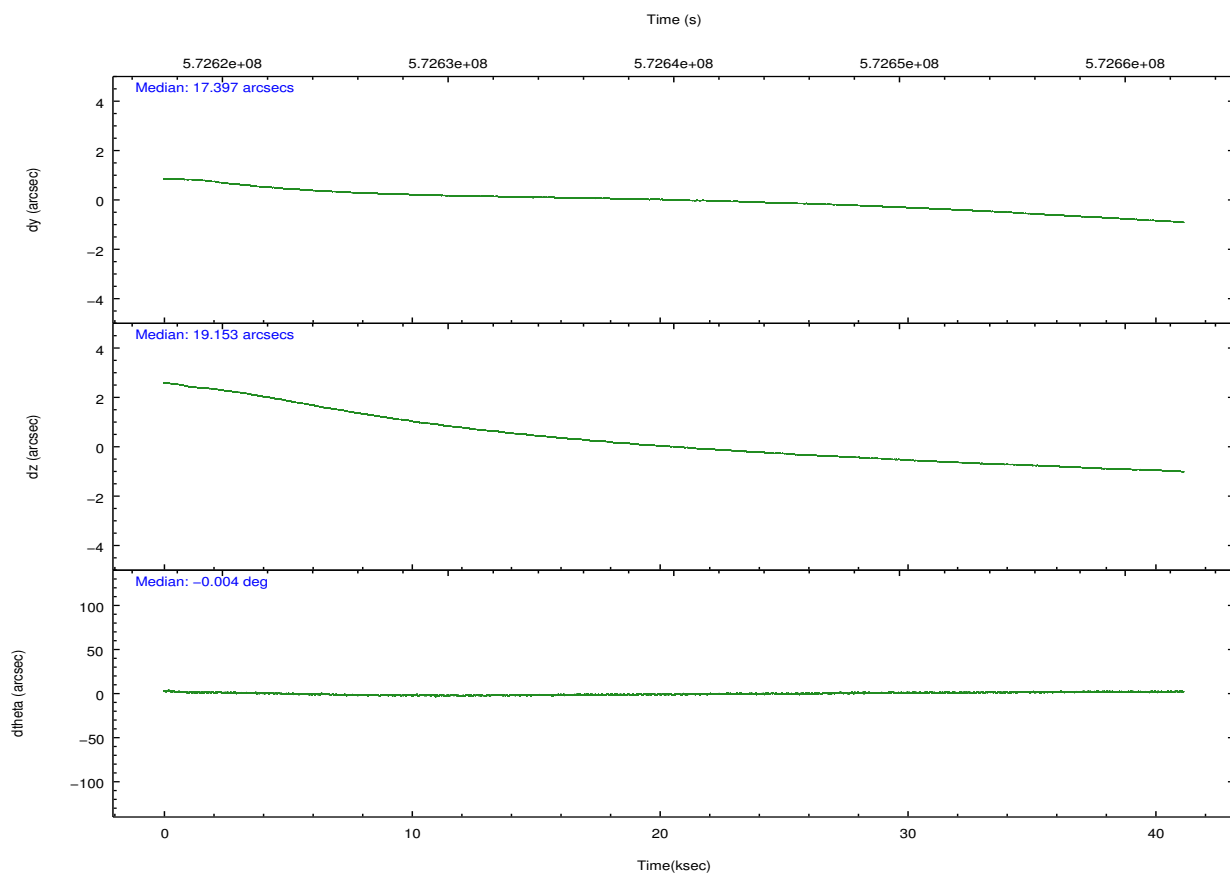
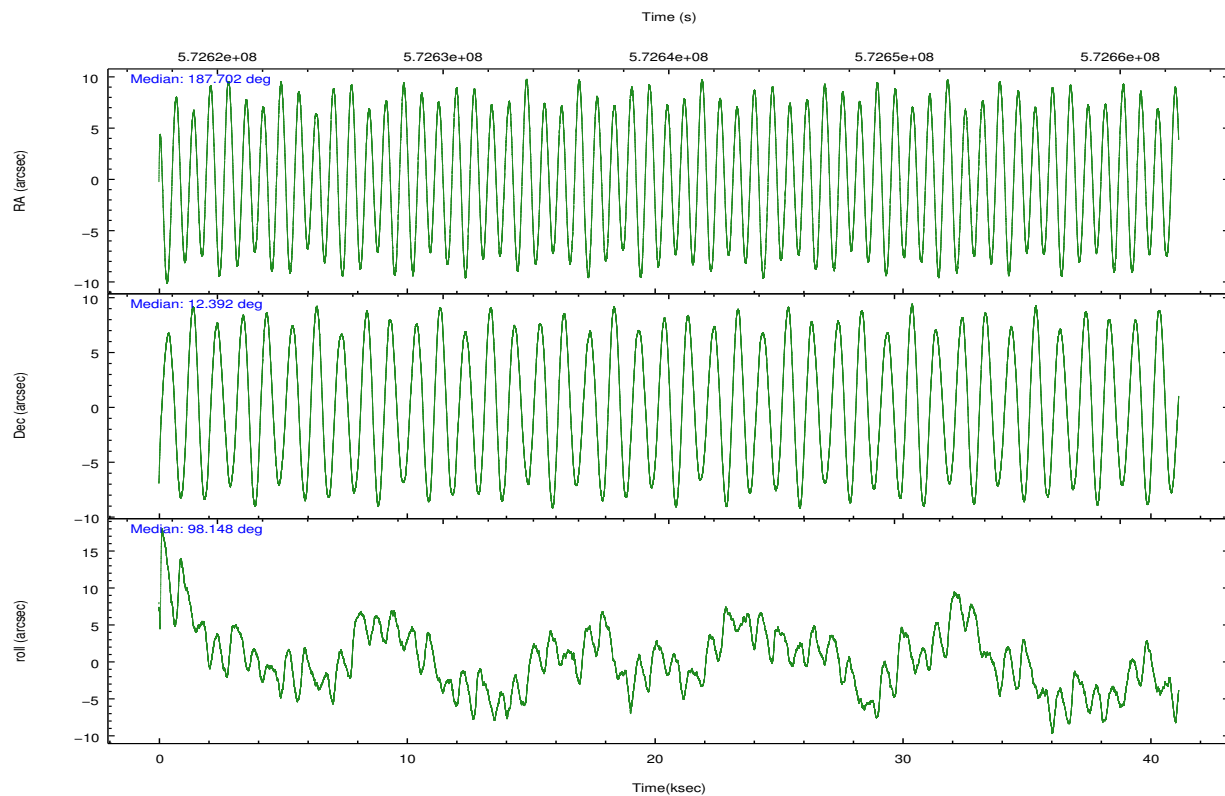
	ccd 7
grade 0 events	73747
	25%
grade 1 events	141
	0%
grade 2 events	69918
	24%
grade 3 events	31651
	10%
grade 4 events	31059
	10%
grade 5 events	5906
	2%
grade 6 events	60108
	20%
grade 7 events	18792
	6%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	187.719071	187.7014221903144	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	12.370774	12.39212313659063	Subarray start row	449	449
[deg] Pointing Roll	97.996810	98.15721435801697	Subarray row count	128	128
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.4
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	572619576.184000	572618354.70257			
Observation start date	2016-02-23T12:58:28	2016-02-23T12:39:14			
[s] Observation end time (MET)	572660576.184000	572661493.88003			
Observation end date	2016-02-24T00:21:48	2016-02-24T00:38:13			
Read mode	TIMED	TIMED			

2.3 Aspect



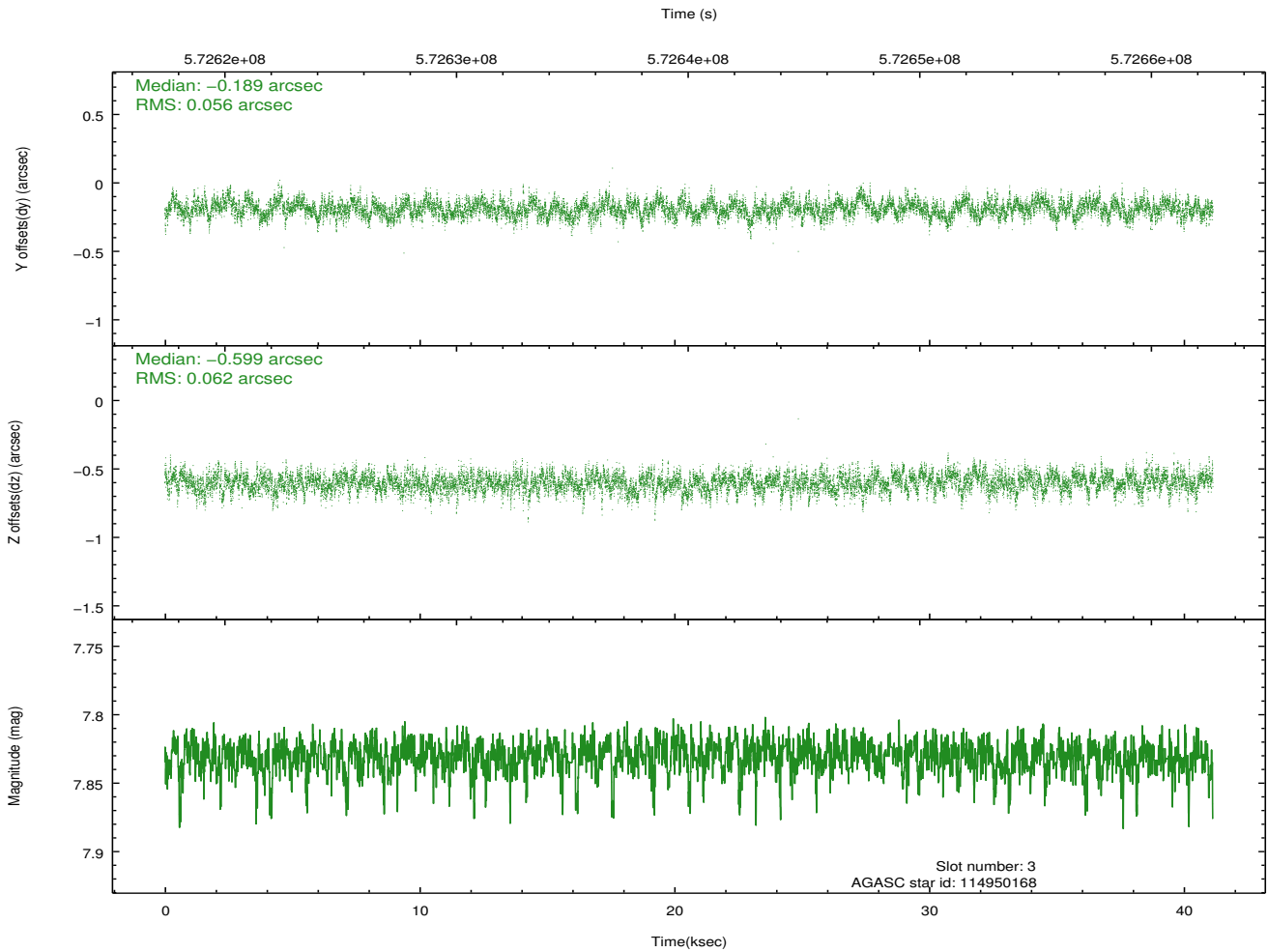
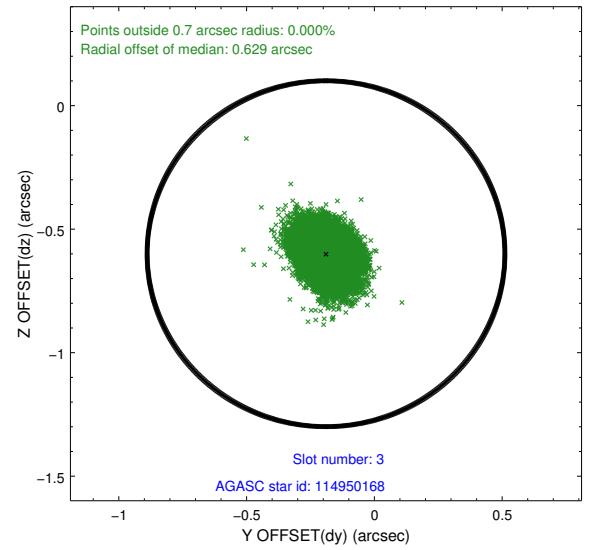
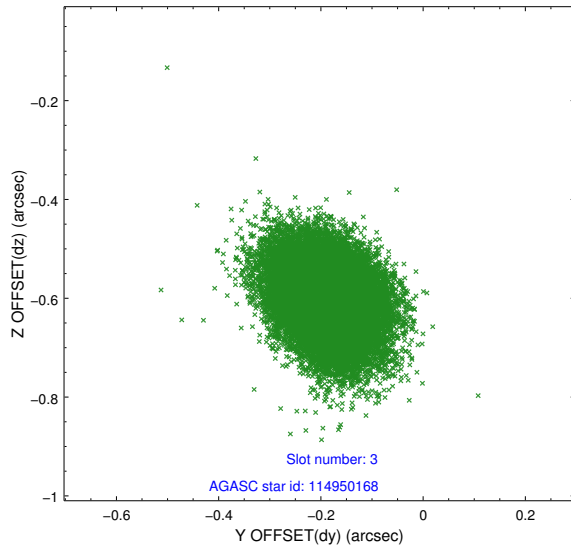


Slot Statistics

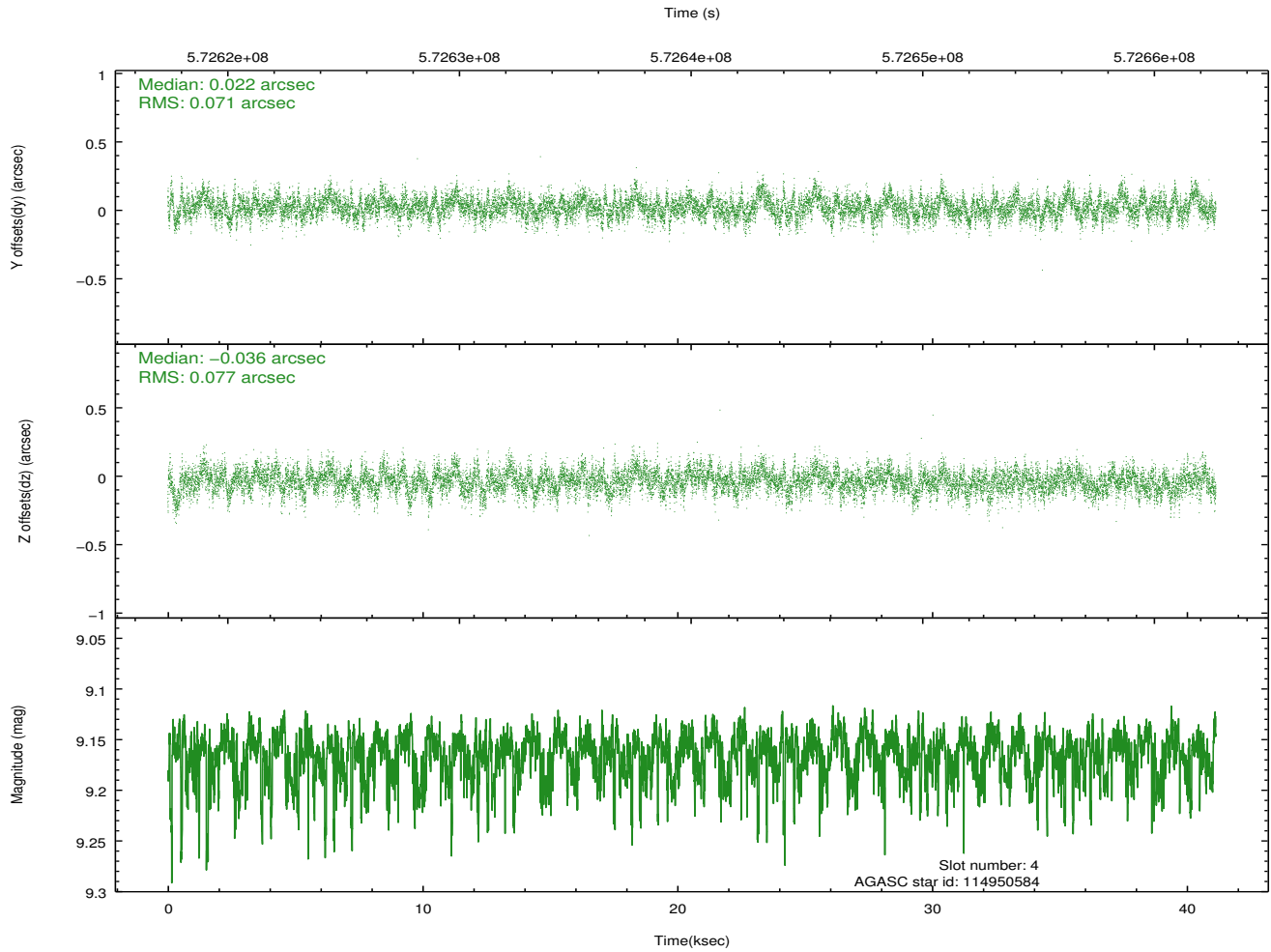
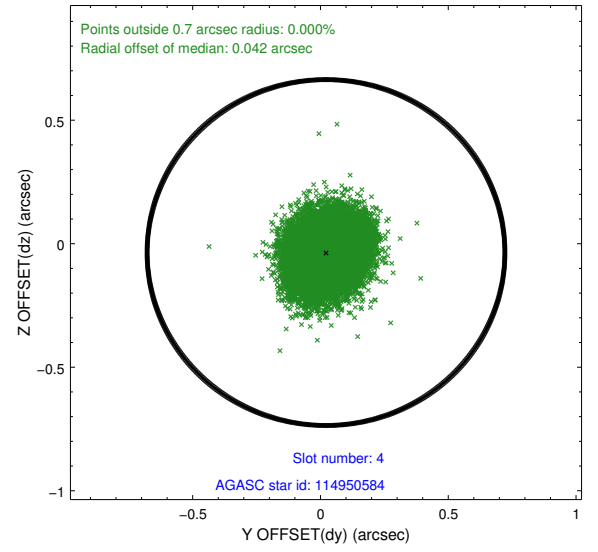
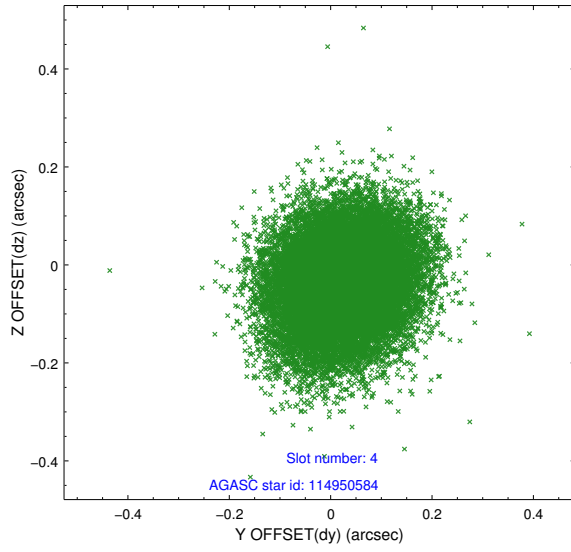
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.13	10035	-0.161	-0.121	0.020	0.033	0.000000	0.000000	-770.53	-1741.01
1	FID		ACIS-S-4	7.22	10034	0.405	0.109	0.010	0.018	0.000000	0.000000	2143.29	167.71
2	FID		ACIS-S-5	7.23	10031	-0.275	0.019	0.017	0.029	0.000000	0.000000	-1823.49	161.27
3	GUIDE	used	114950168	7.83	20064	-0.189	-0.599	0.088	0.145	187.143398	12.117441	-619.85	2132.75
4	GUIDE	used	114950584	9.16	20055	0.022	-0.036	0.110	0.182	187.487323	11.827248	-1823.84	1081.51
5	GUIDE	used	114955056	8.32	20061	0.056	1.067	0.114	0.184	187.914001	12.127854	-960.99	-556.29
6	GUIDE	used	114956608	9.62	20025	0.062	0.029	0.190	0.325	187.452443	11.725979	-2167.94	1254.97
7	GUIDE	used	114956144	9.74	20047	0.038	-0.453	0.190	0.321	187.100545	12.039156	-877.20	2325.92

2.4 Star Slots

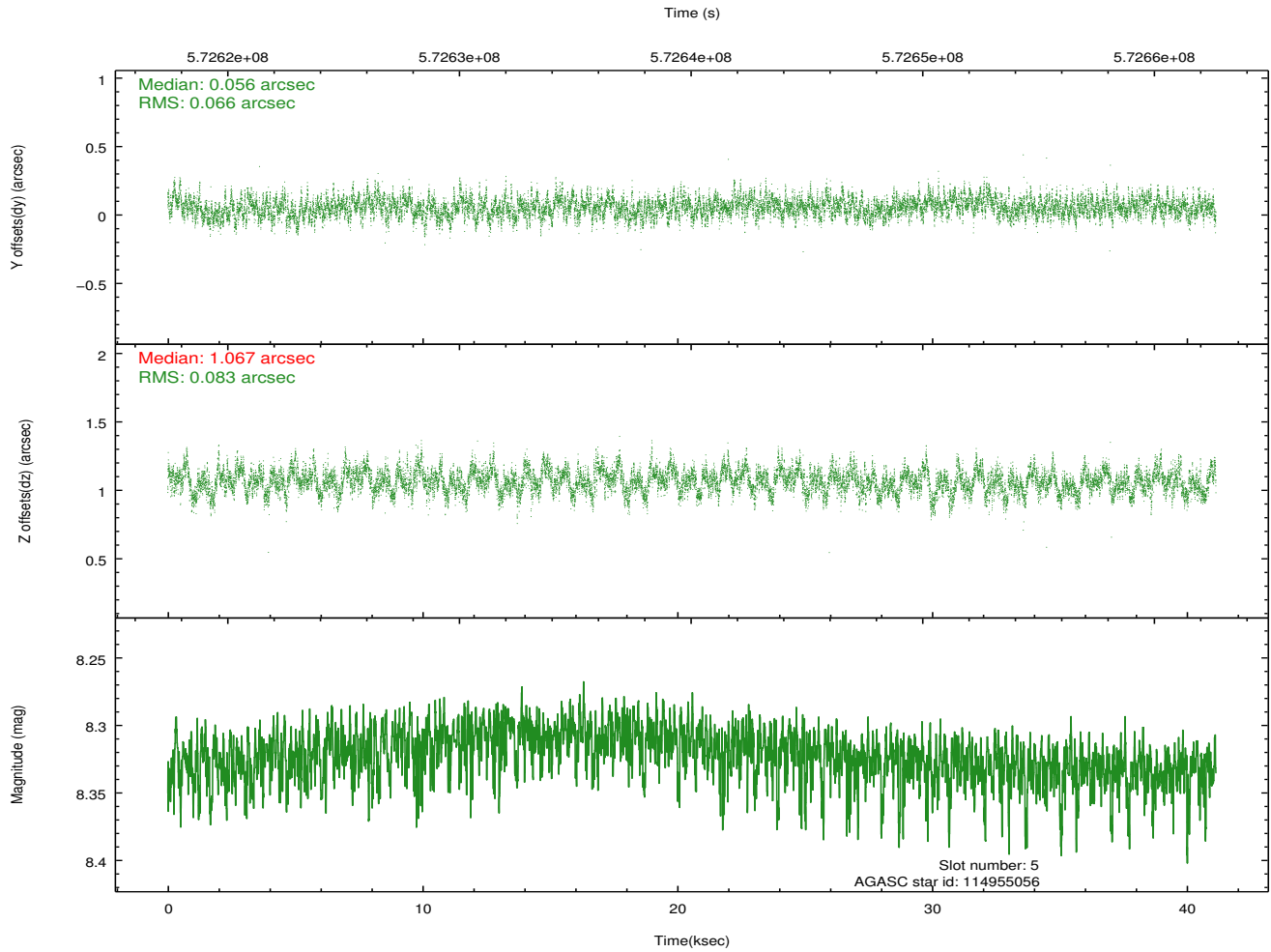
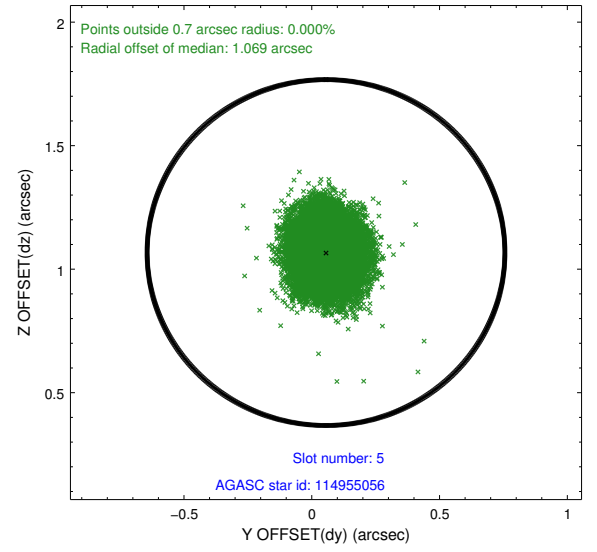
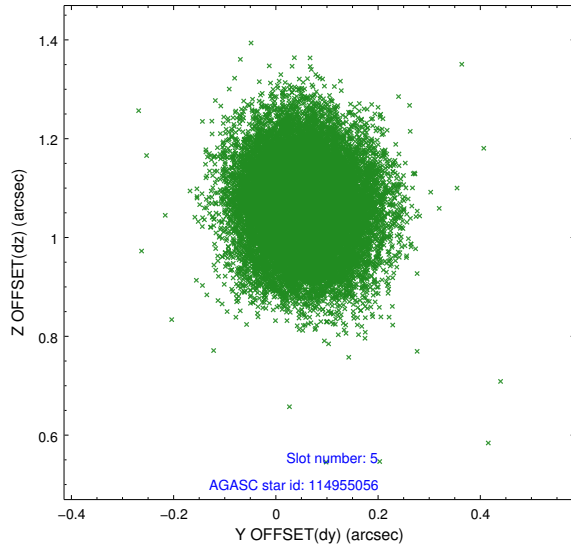
2.4.1 Slot 3



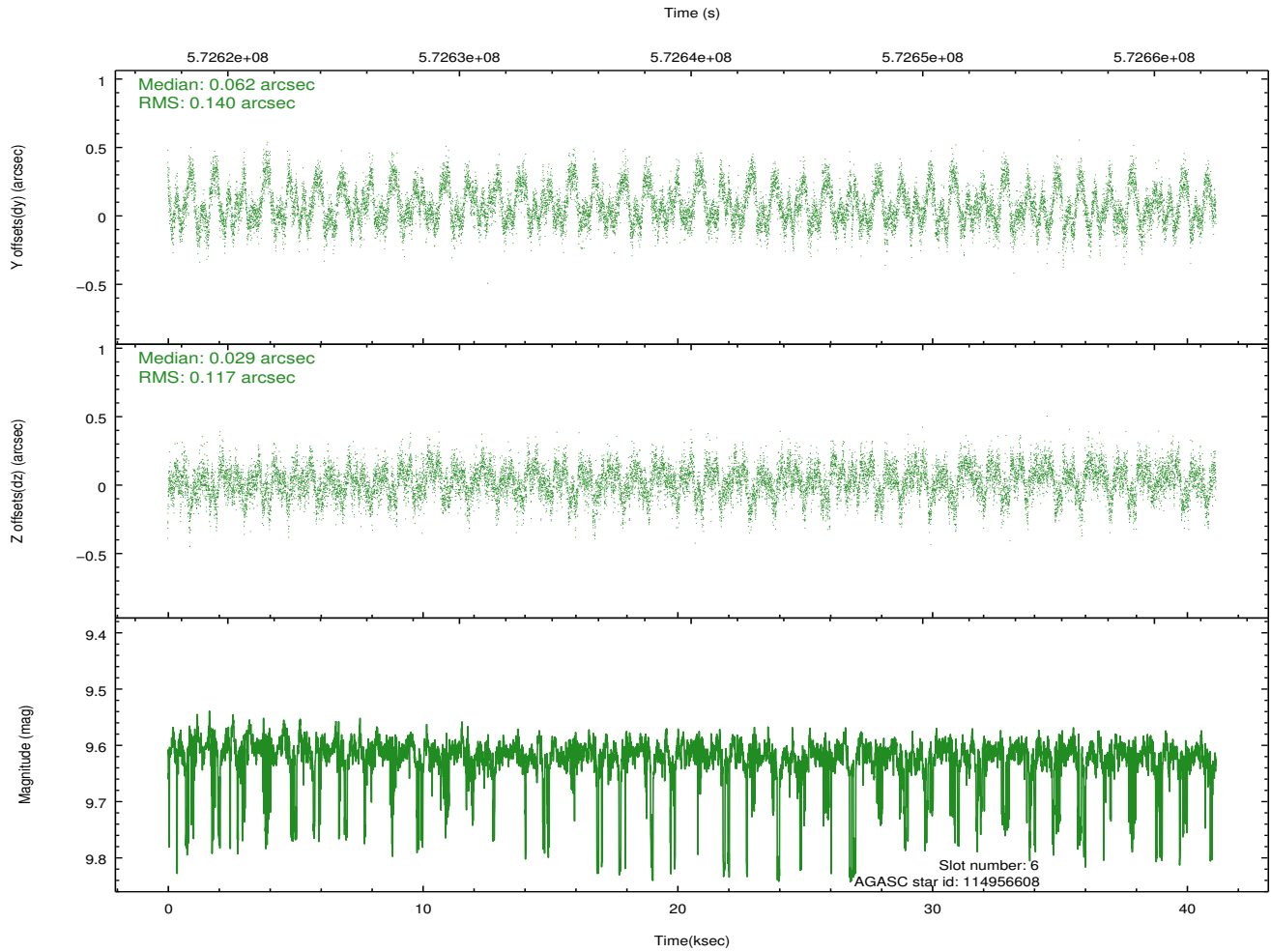
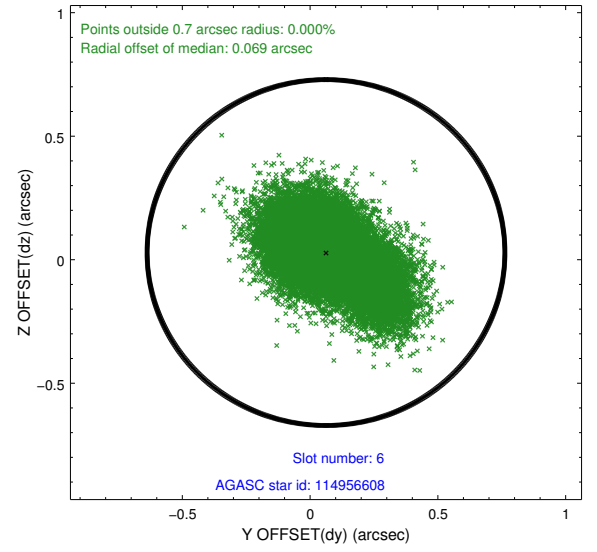
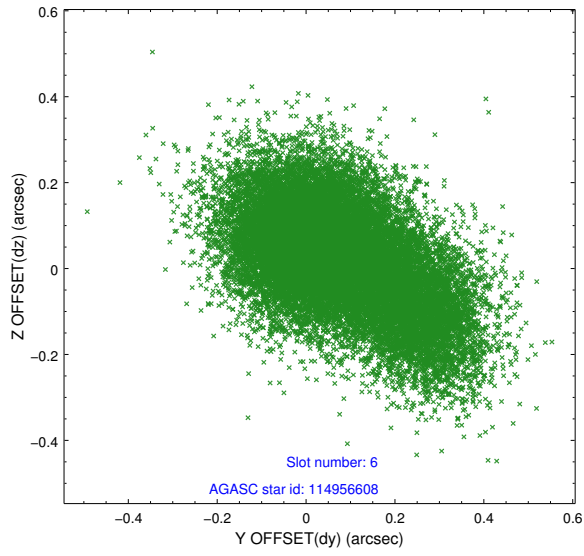
2.4.2 Slot 4



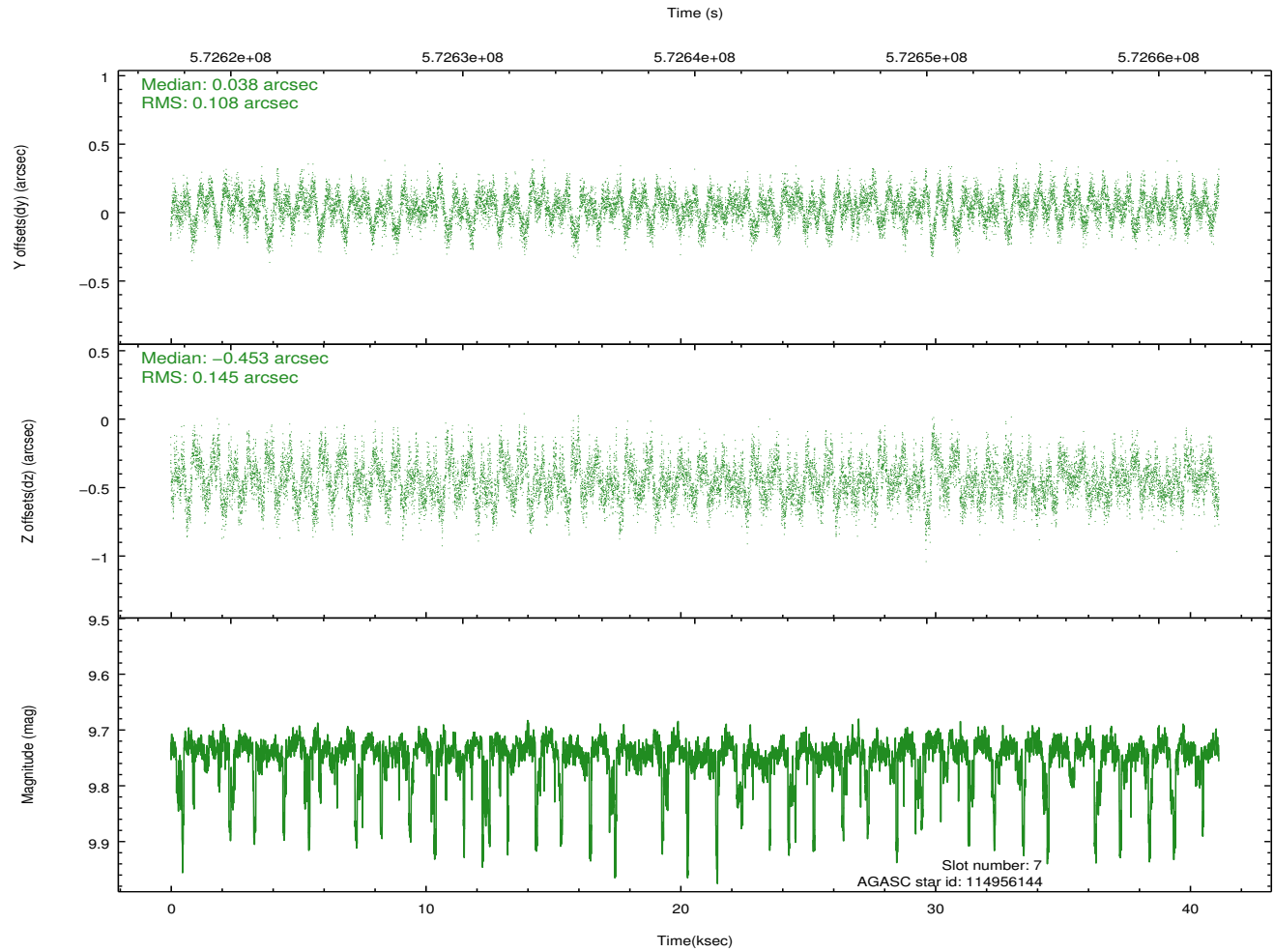
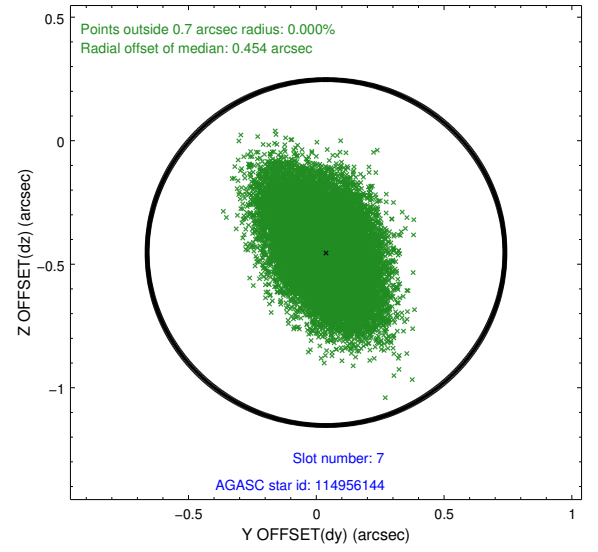
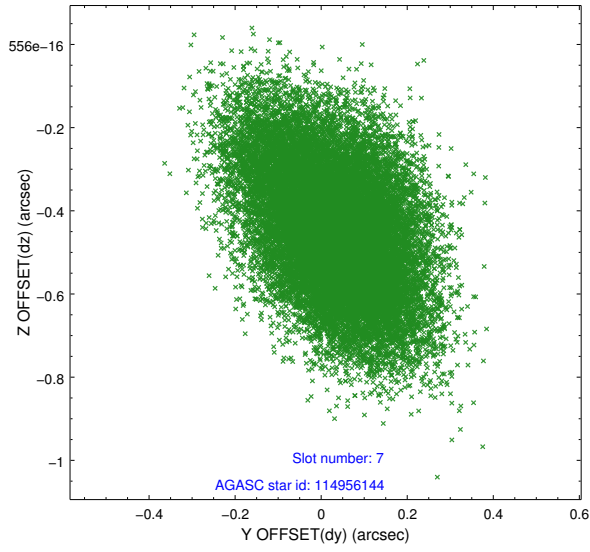
2.4.3 Slot 5



2.4.4 Slot 6

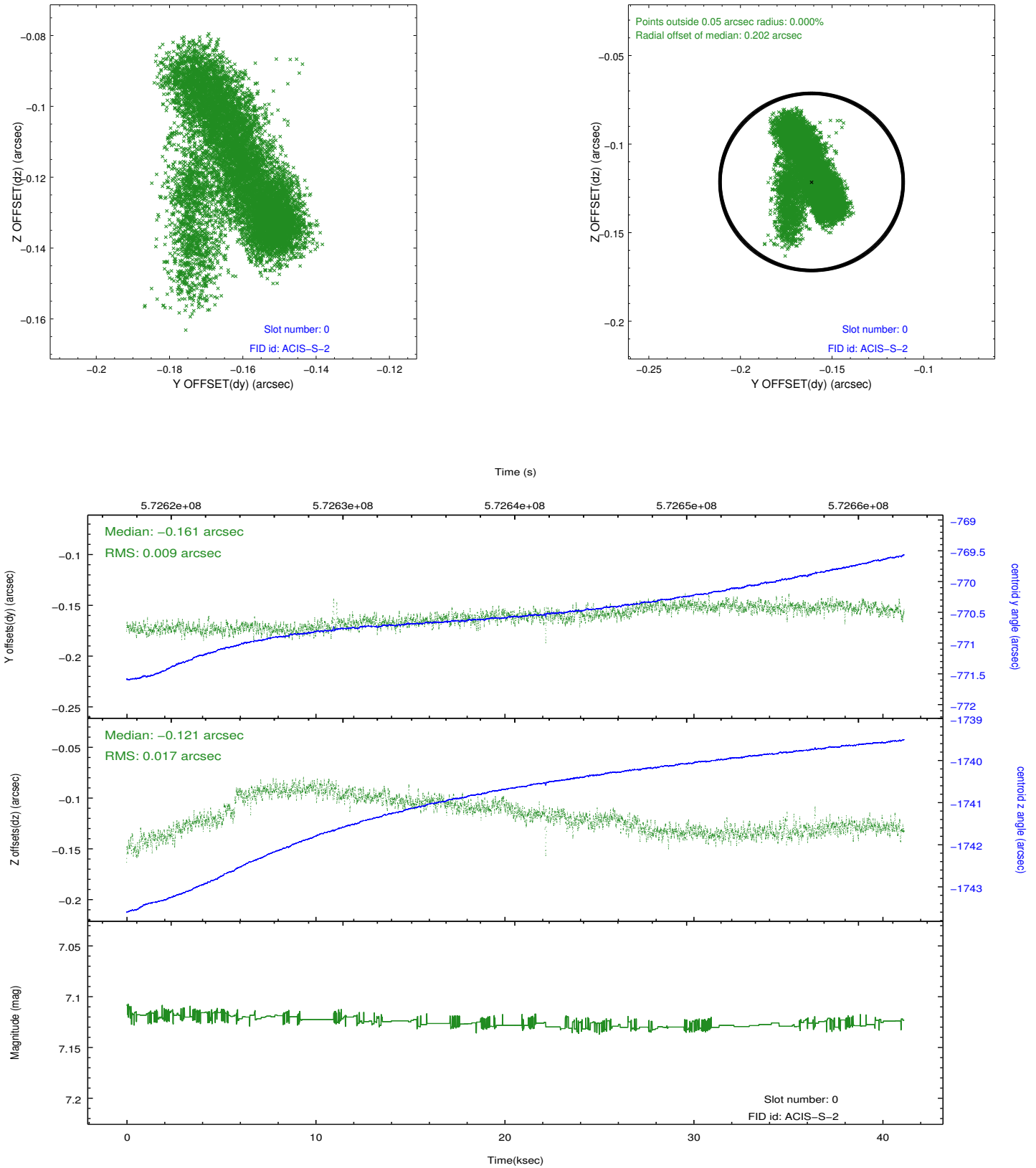


2.4.5 Slot 7

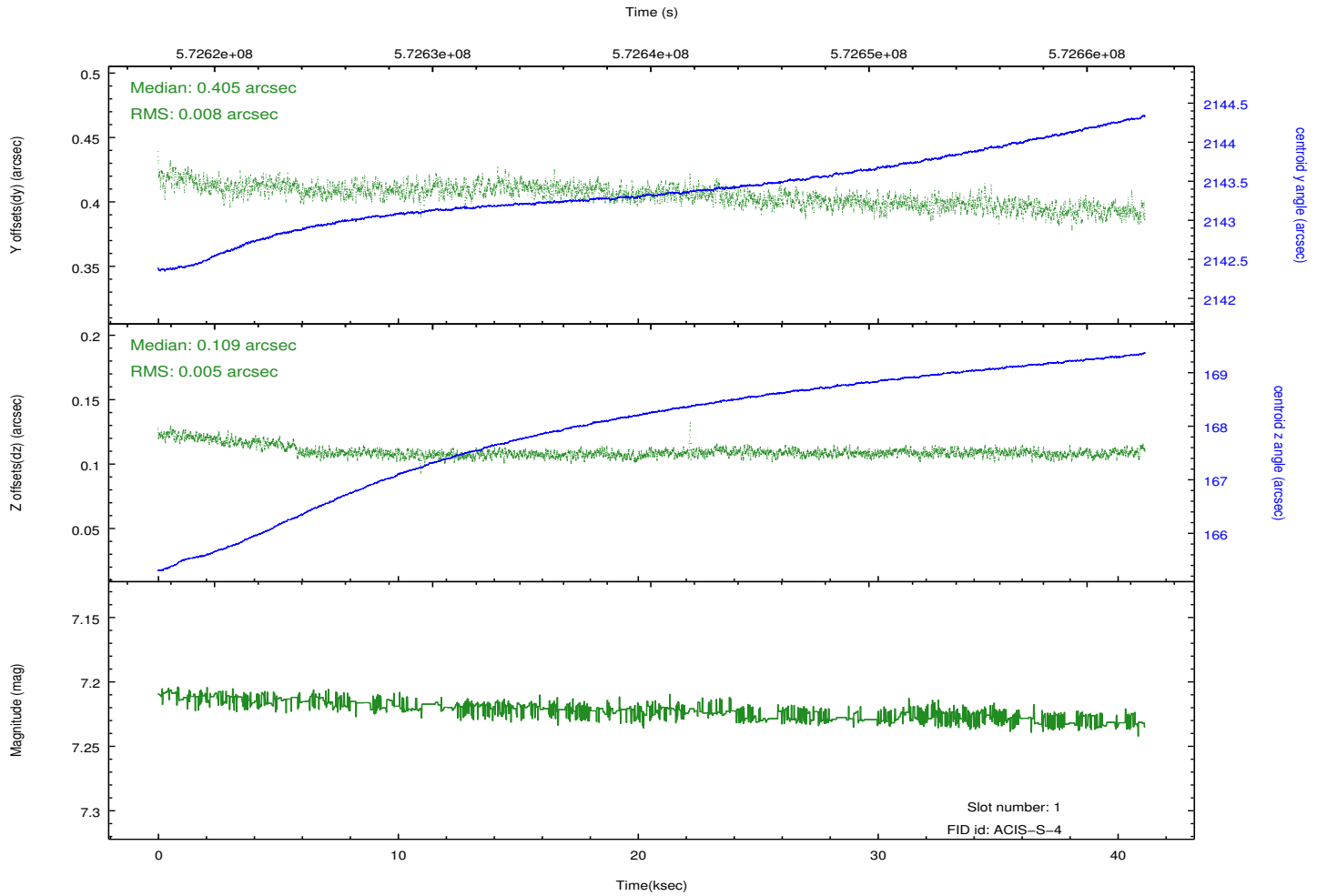
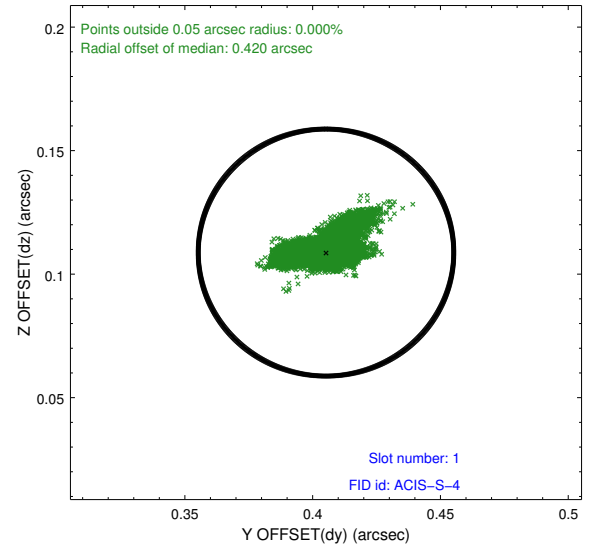
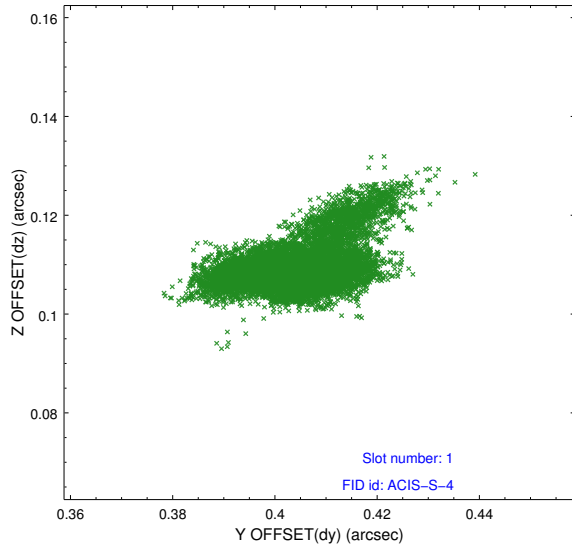


2.5 FID Slots

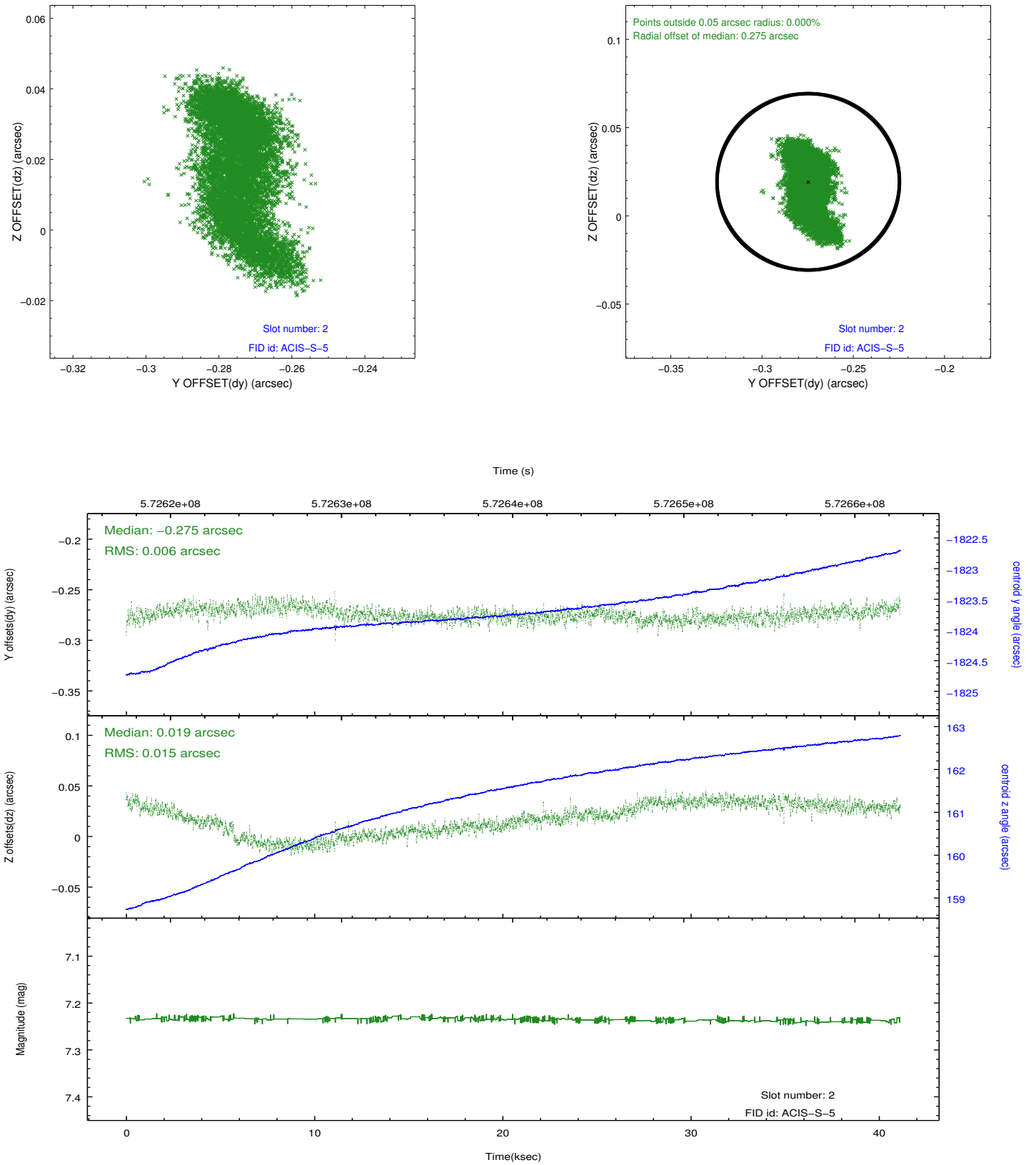
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2016.03.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	41.06879755199

A.2 Comments

An error occurred while processing this obsid and a custom procedure was used to complete the processing. No problems were found with the science data products and they are deemed good for analysis. We will continue to investigate the source of the error and keep the observer informed.