

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 14621 - L2 Version 2
Chandra X-Ray Center

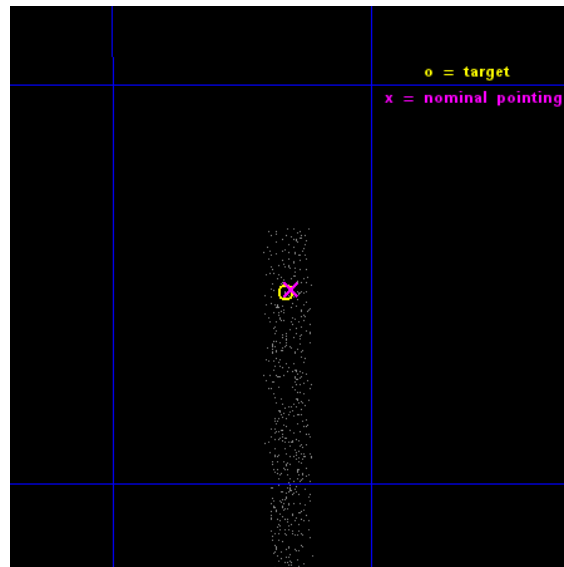
L2 Processing Date : Dec 1 2014

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1 Front

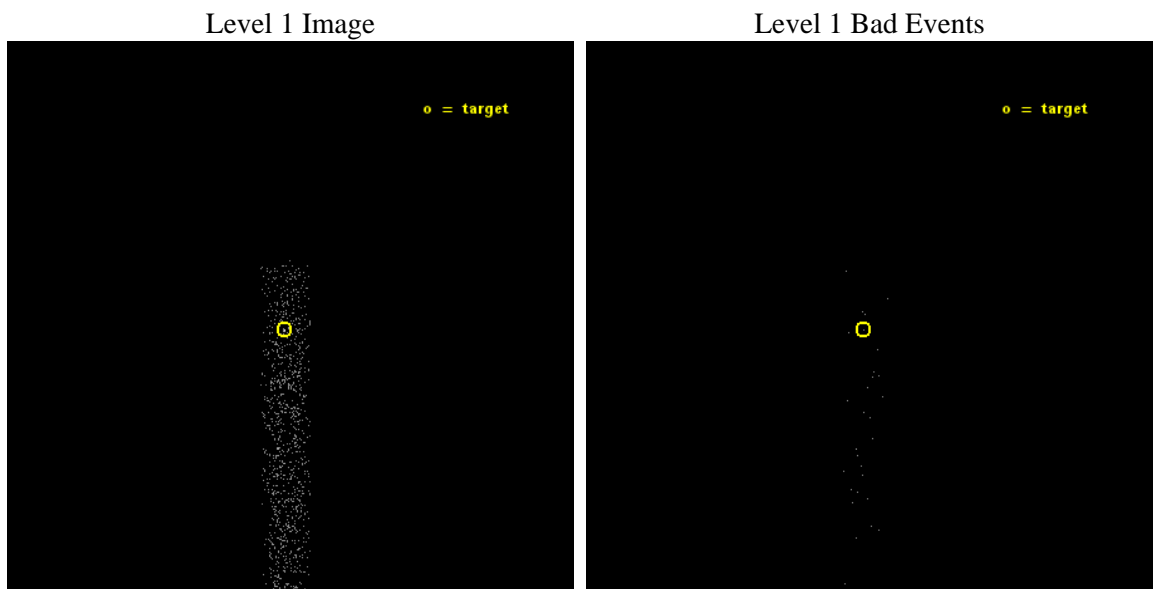
seq_num	401454	Sequence number
obs_id	14621	Observation id
title	Precise Localization of Transient Low-Mass X-ray Binaries	Proposal
observer	Prof. Deepto Chakrabarty	Principal investigator
object	Swift J1753.7-2544	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	268.416167	Observer's specified target RA [deg]
dec_targ	-25.753556	Observer's specified target Dec [deg]
ra_nom	268.41332007224	Nominal RA [deg]
dec_nom	-25.752286455453	Nominal Dec [deg]
roll_nom	89.637194243459	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1070.3999361992	Sum of GTIs [s]
livetime	970.79624179139	Livetime [s]
ontime7	1070.3999361992	Sum of GTIs [s]
l2events	613	Number of level 2 events



2 OBI

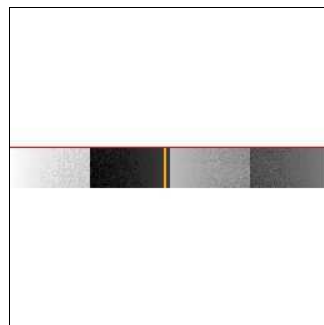
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	1000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	1070.3999361992	Sum of GTIs [s]
caldbver	4.6.4	 	ontime7	1070.3999361992	Sum of GTIs [s]
date	2014-12-02T03:08:23	Date and time of file creation	l1events	1123	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

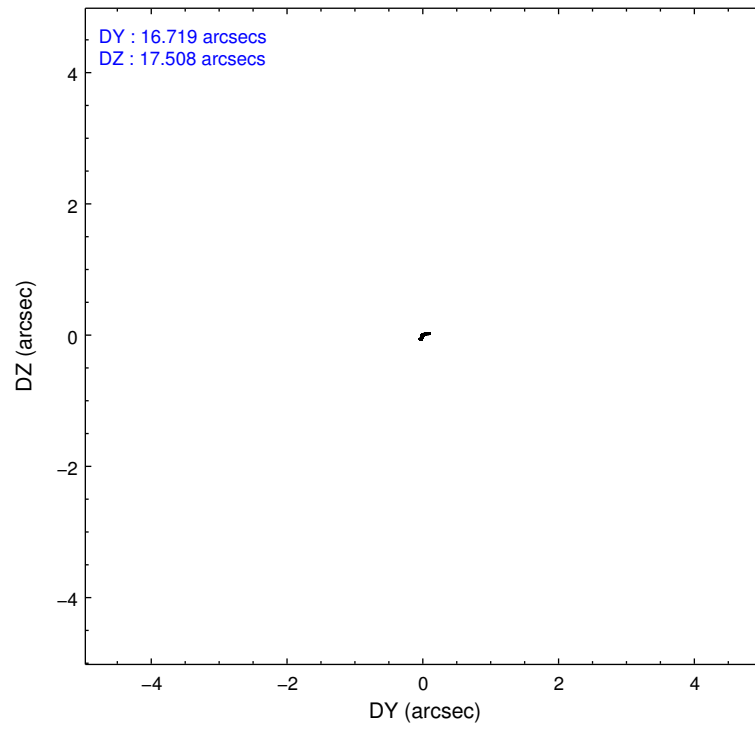
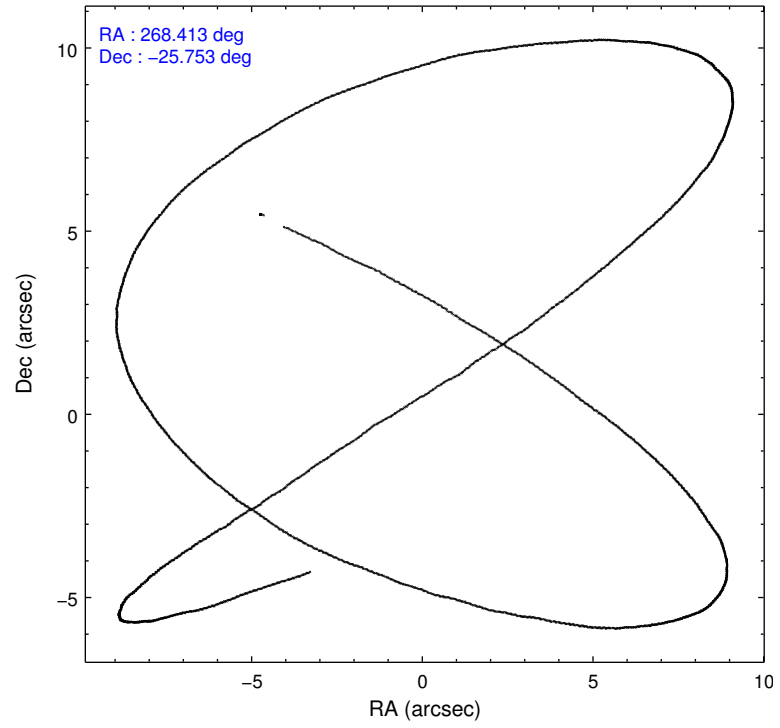
	ccd 7
level 1 events	1123
rejected events	499
rejected %	44%

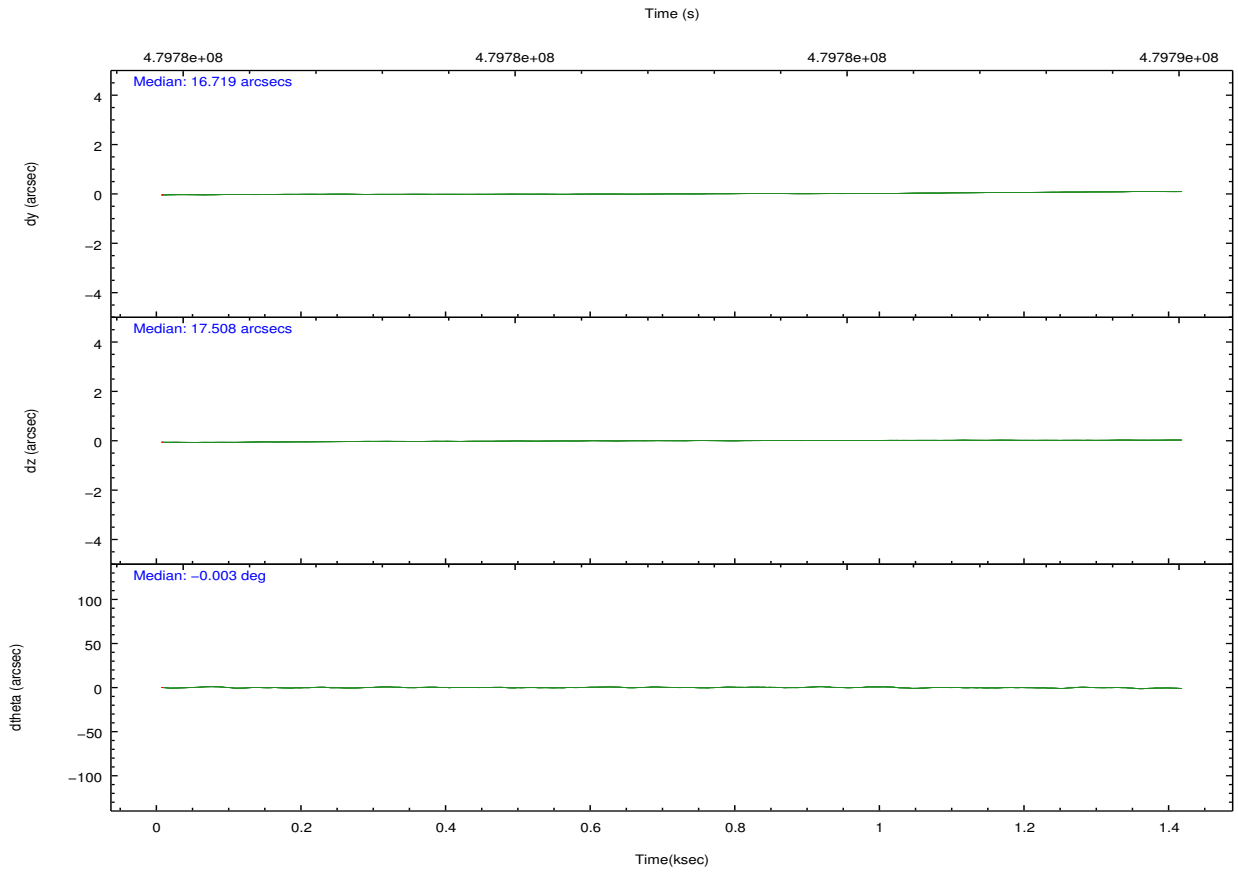
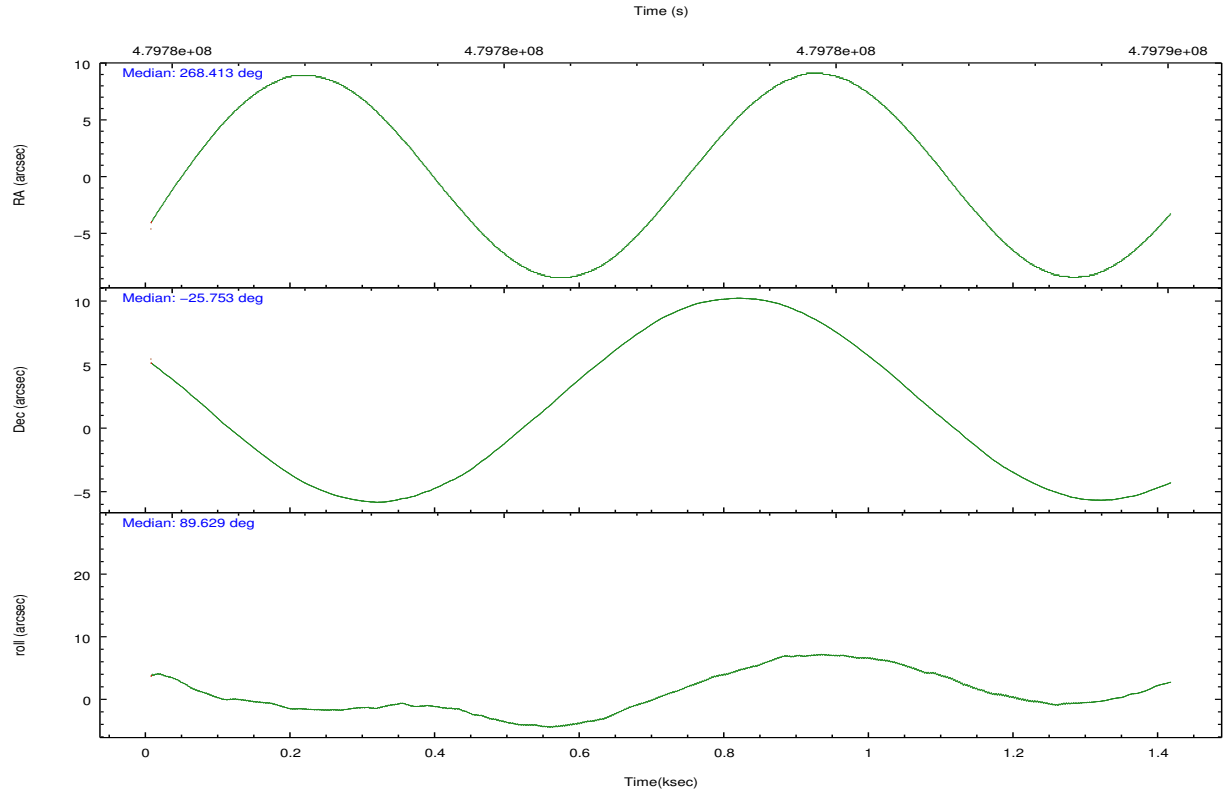
	ccd 7
grade 0 events	53
	4%
grade 1 events	3
	0%
grade 2 events	126
	11%
grade 3 events	79
	7%
grade 4 events	77
	6%
grade 5 events	99
	8%
grade 6 events	289
	25%
grade 7 events	397
	35%

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	268.428722	268.4133200722439	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-25.775499	-25.75228645545297	Subarray start row	449	449
[deg] Pointing Roll	89.487253	89.6371942434594	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)	479784450.184000	479783773.32427			
Observation start date	2013-03-16T01:26:23	2013-03-16T01:16:13			
[s] Observation end time (MET)	479785450.184000	479786365.03691			
Observation end date	2013-03-16T01:43:03	2013-03-16T01:59:25			
Read mode	TIMED	TIMED			

2.3 Aspect



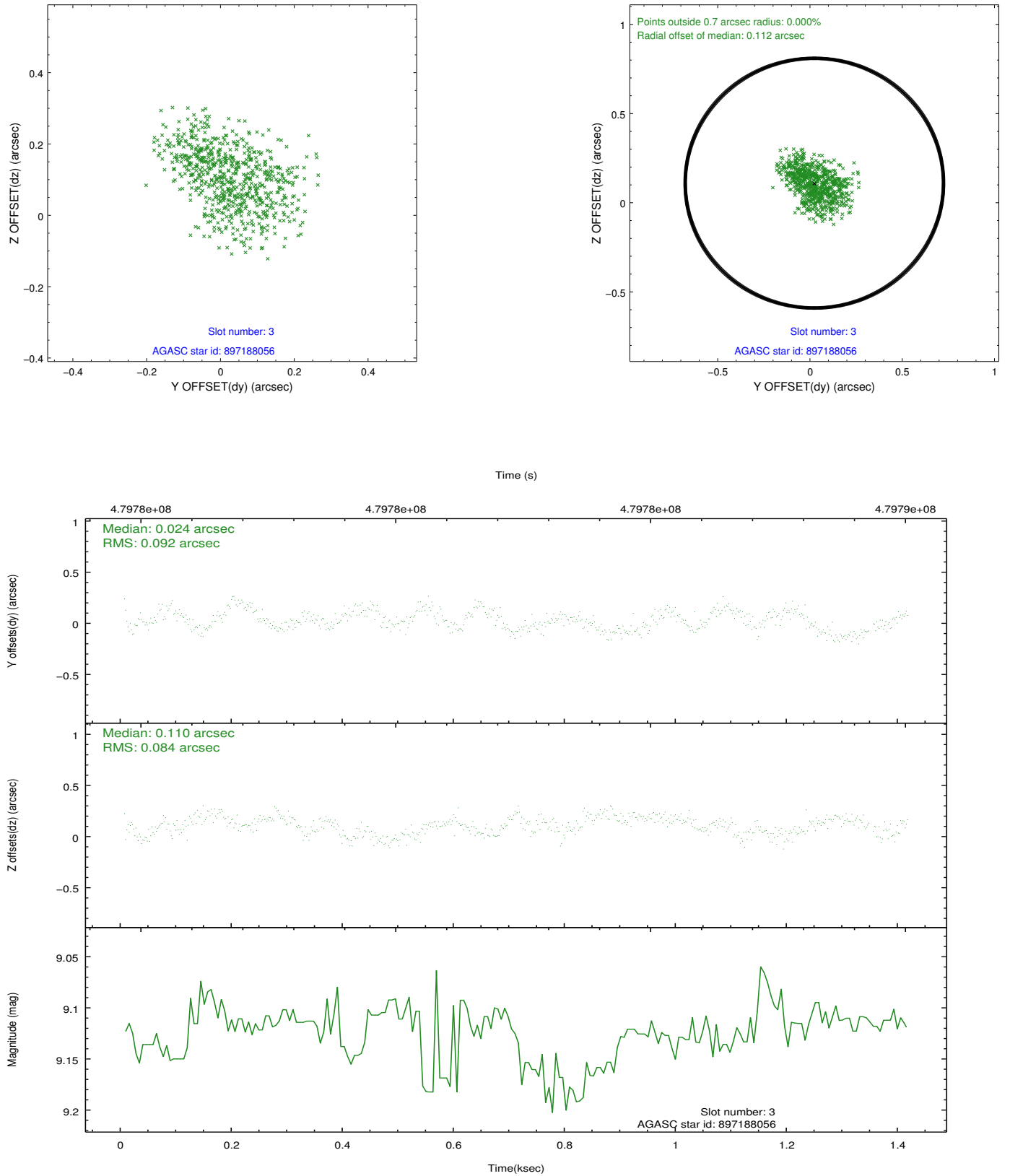


Slot Statistics

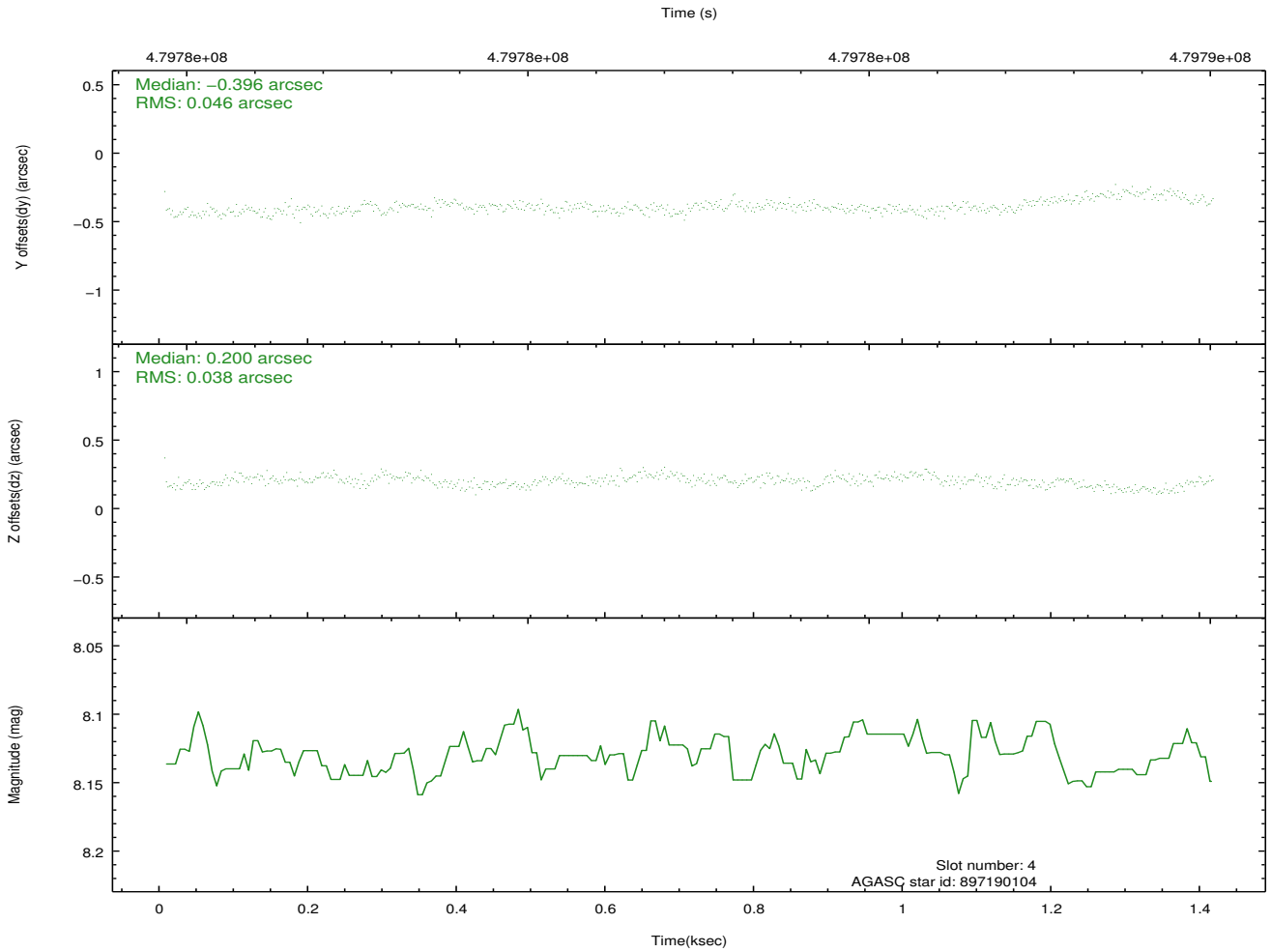
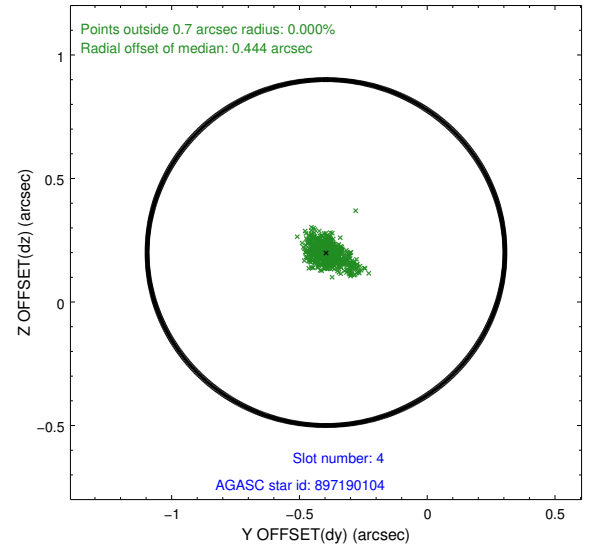
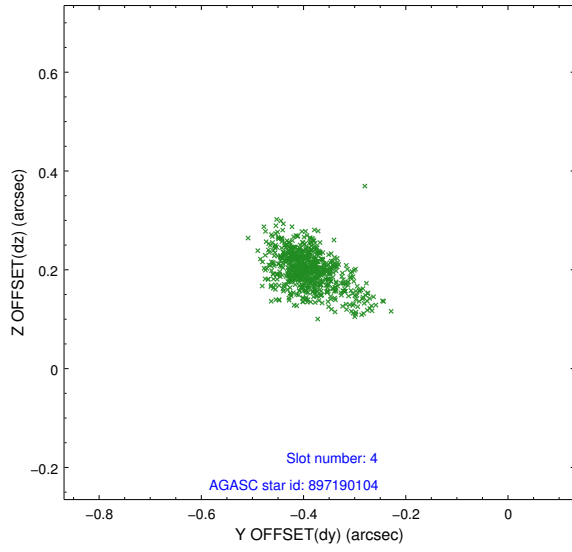
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.97	345	-0.088	-0.053	0.007	0.011	0.000000	0.000000	-769.87	-1738.93
1	FID		ACIS-S-4	7.06	345	0.222	0.057	0.006	0.010	0.000000	0.000000	2141.59	164.72
2	FID		ACIS-S-5	7.09	345	-0.164	0.005	0.008	0.013	0.000000	0.000000	-1816.74	163.76
3	GUIDE	used	897188056	9.12	686	0.024	0.110	0.138	0.207	269.091794	-25.262919	1860.52	-2141.67
4	GUIDE	used	897190104	8.13	688	-0.396	0.200	0.058	0.116	268.897616	-25.377340	1448.36	-1514.90
5	GUIDE	used	897192360	8.38	688	0.217	0.263	0.067	0.109	268.601647	-26.234891	-1645.33	-575.01
6	GUIDE	used	897194504	7.63	689	-0.049	-0.371	0.076	0.115	267.979415	-25.772977	-7.75	1455.41
7	GUIDE	used	897712576	8.13	688	0.190	-0.198	0.082	0.121	268.256910	-26.333794	-2013.48	538.11

2.4 Star Slots

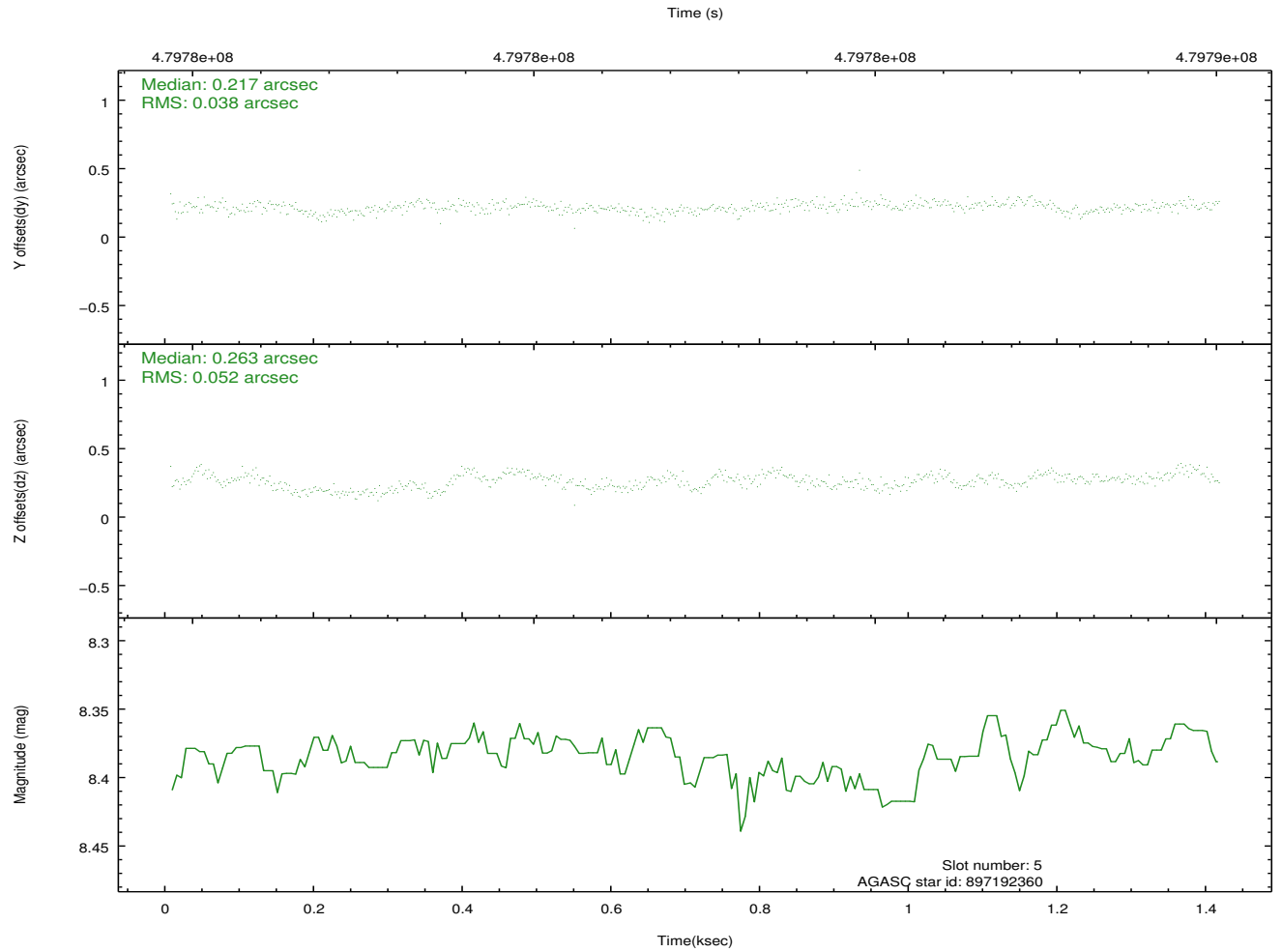
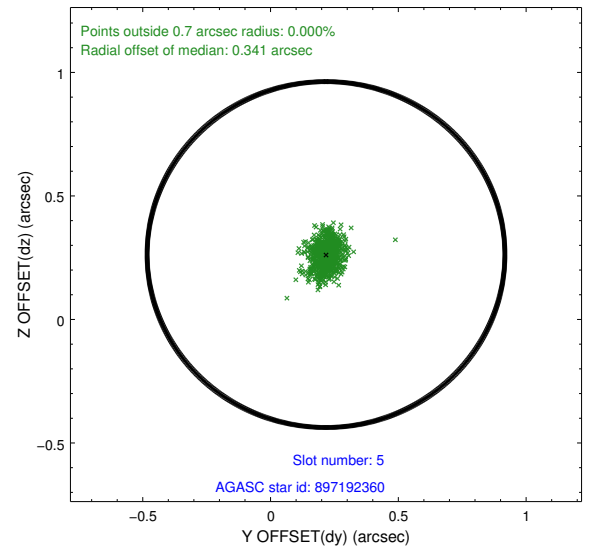
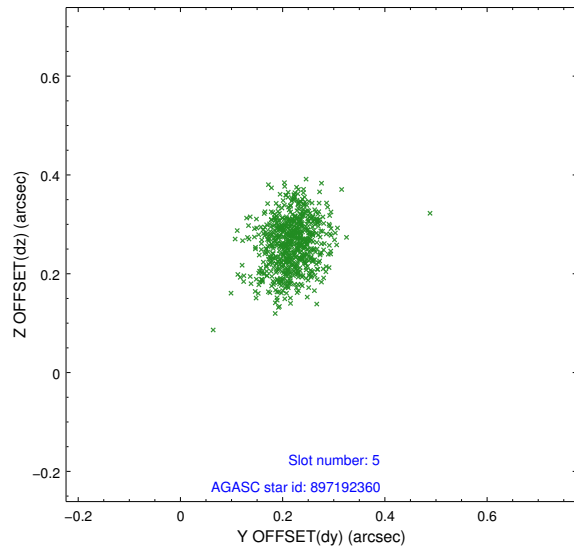
2.4.1 Slot 3



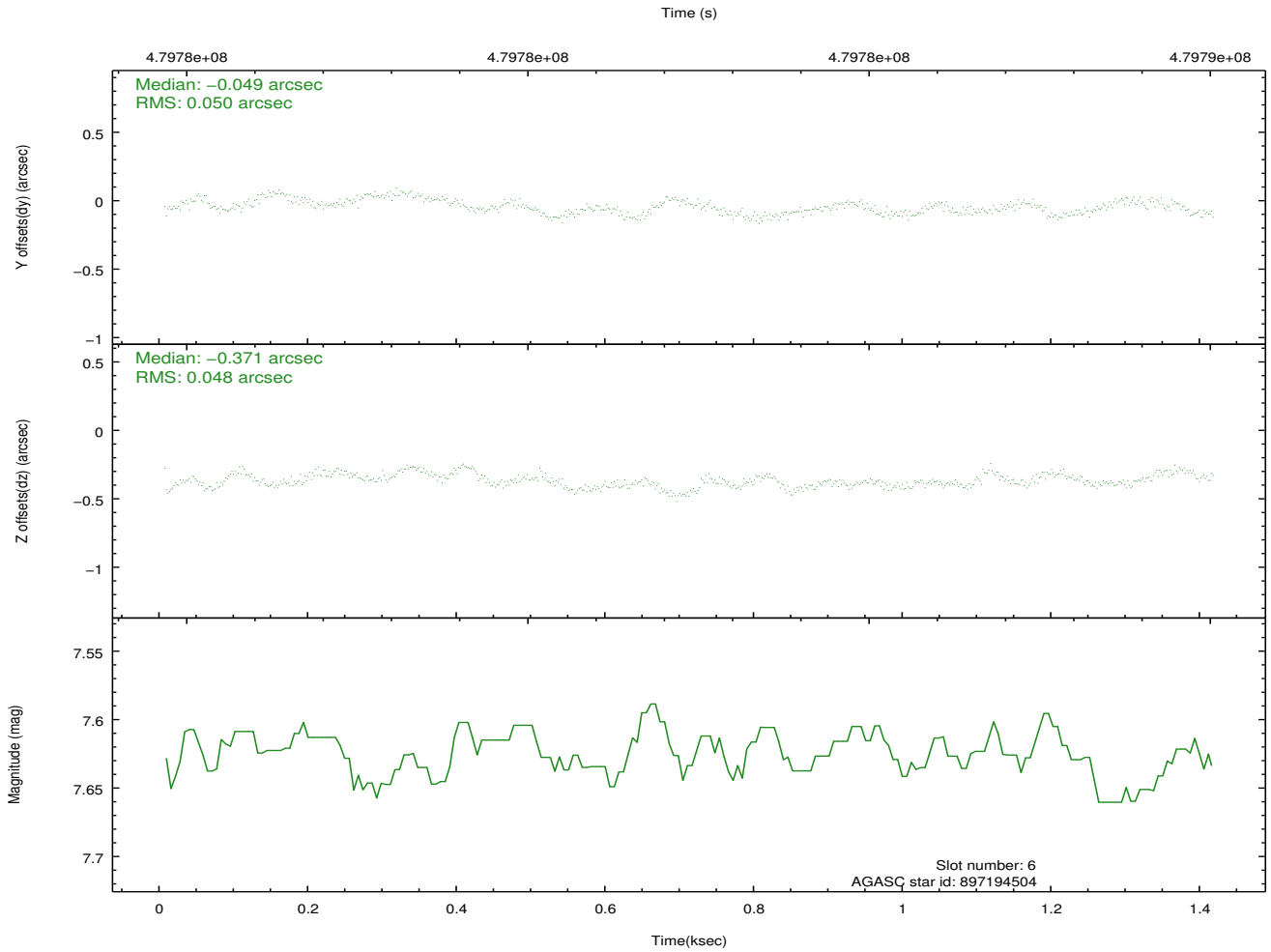
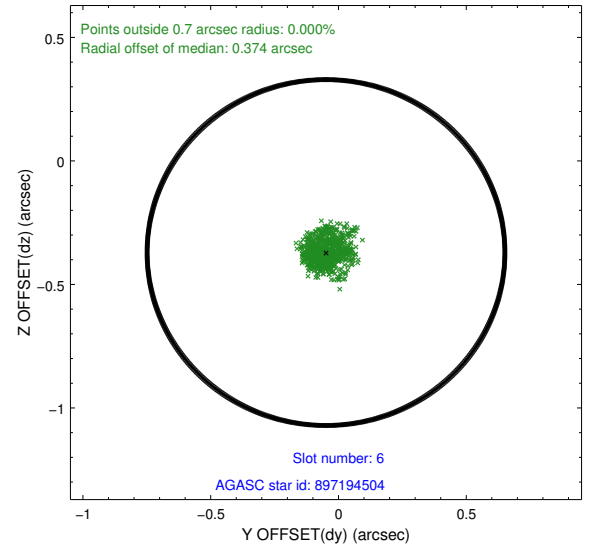
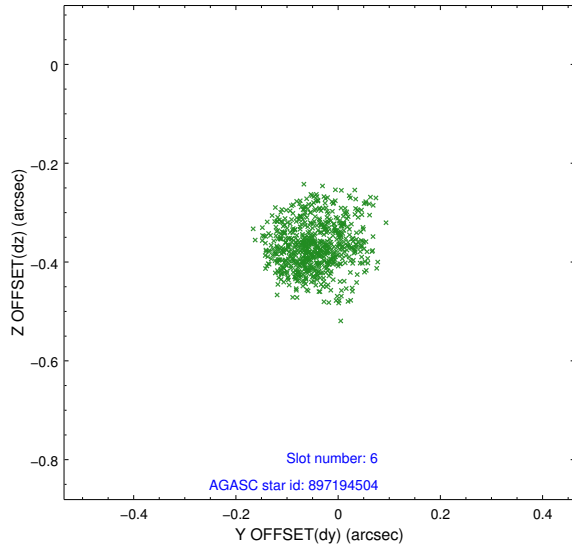
2.4.2 Slot 4



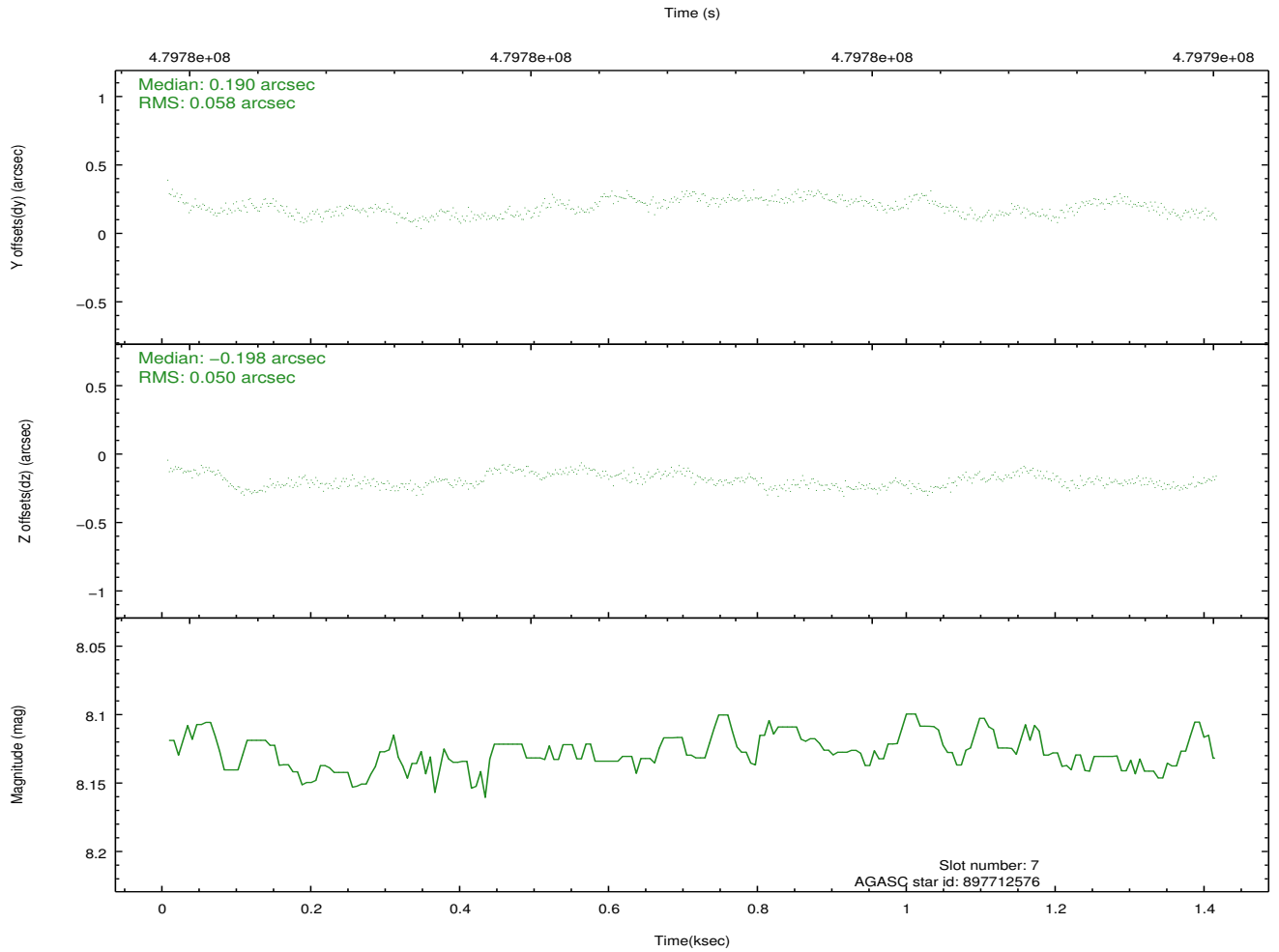
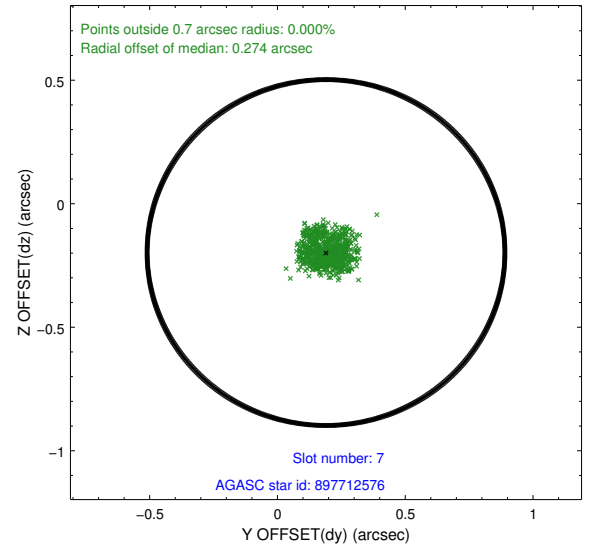
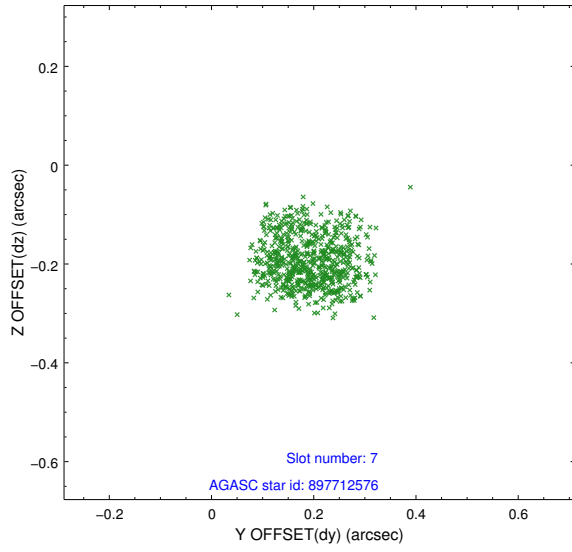
2.4.3 Slot 5



2.4.4 Slot 6

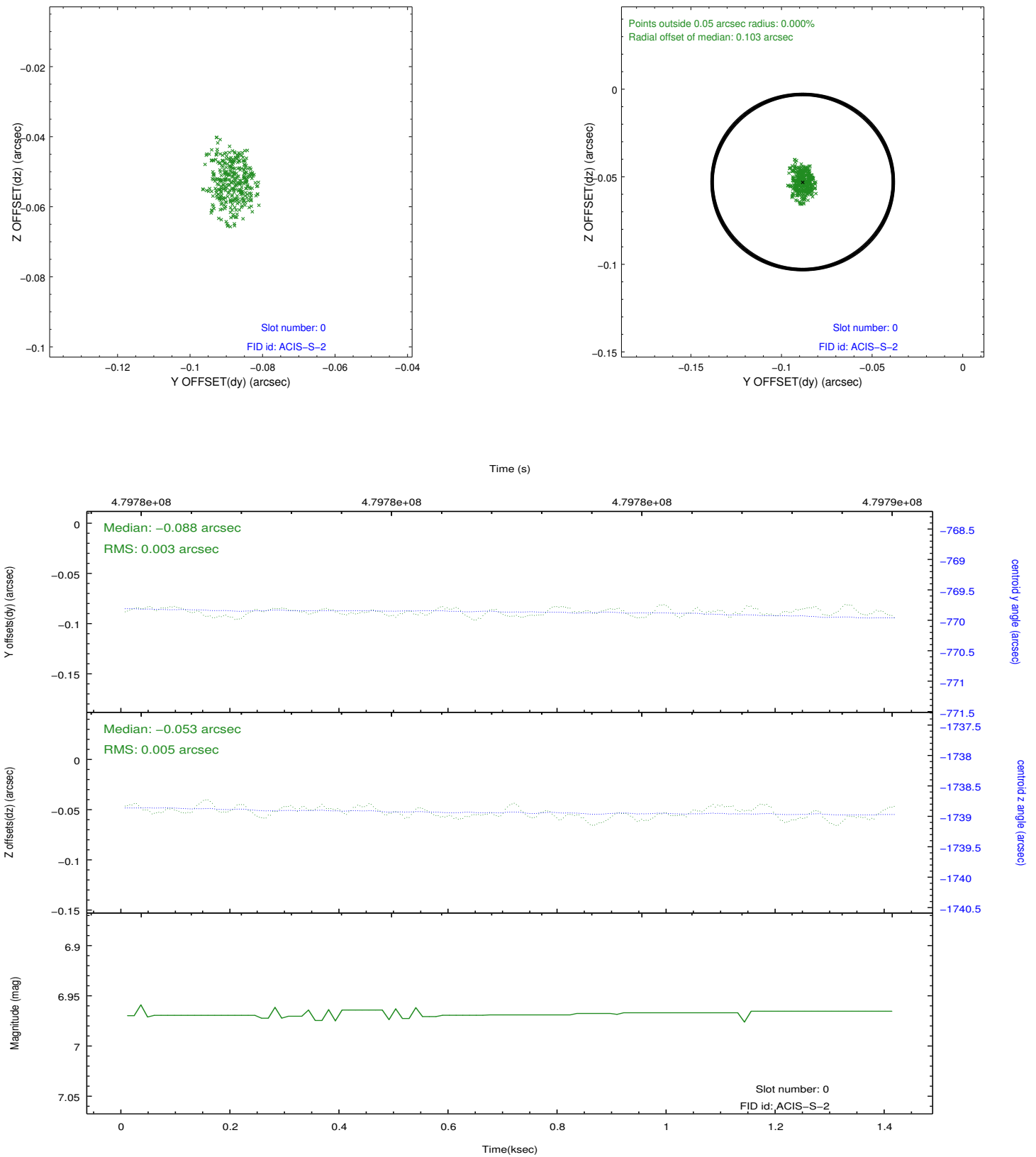


2.4.5 Slot 7

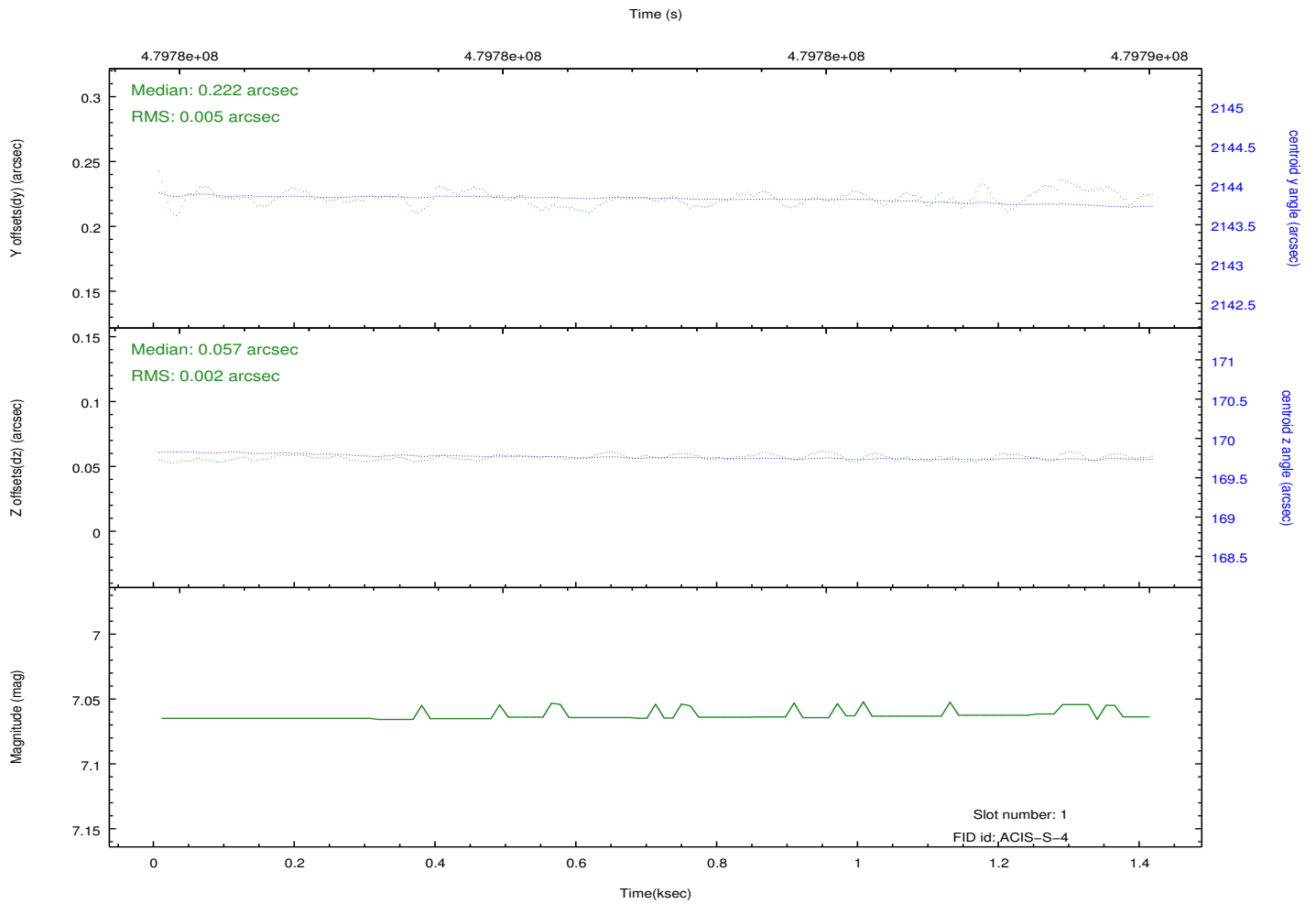
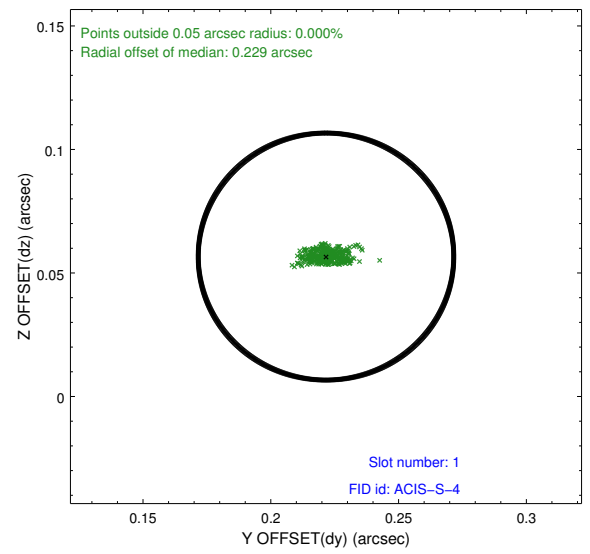
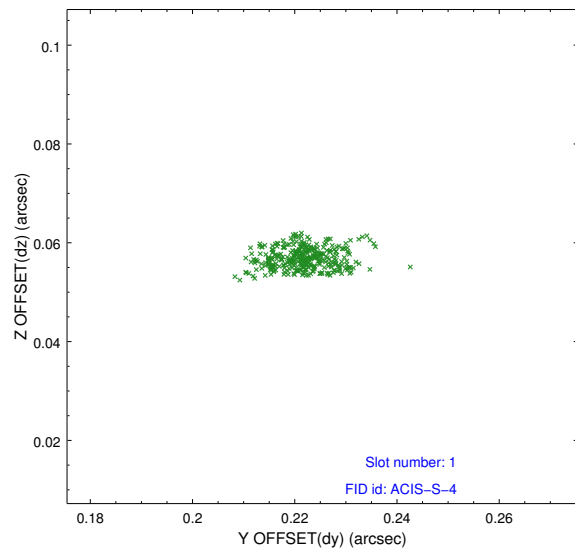


2.5 FID Slots

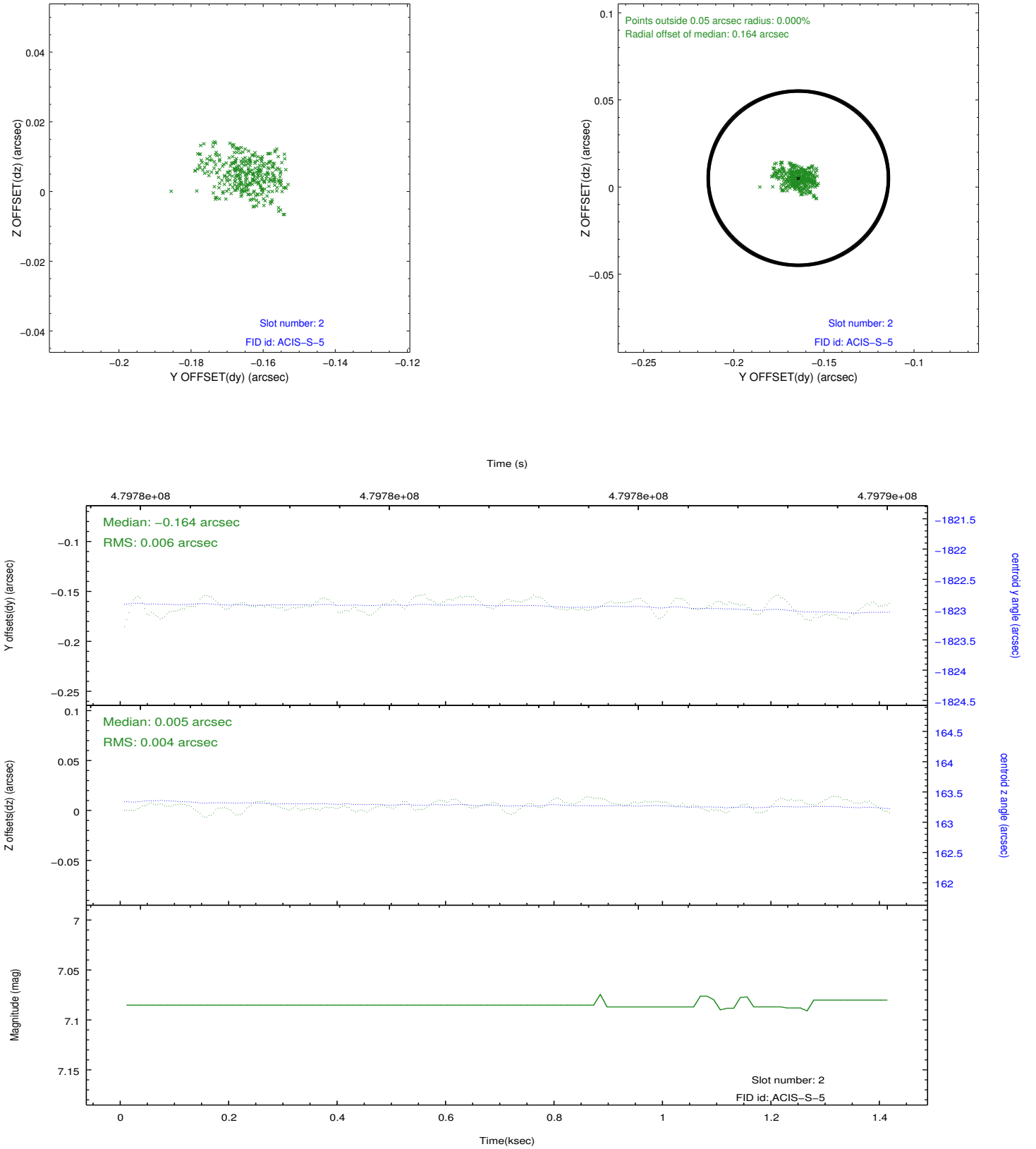
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2014.12.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.0703999361992

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.