

V&V Reference Report

L2 ASCDS Version : 10.1

Observation 16484 - L2 Version 2
Chandra X-Ray Center

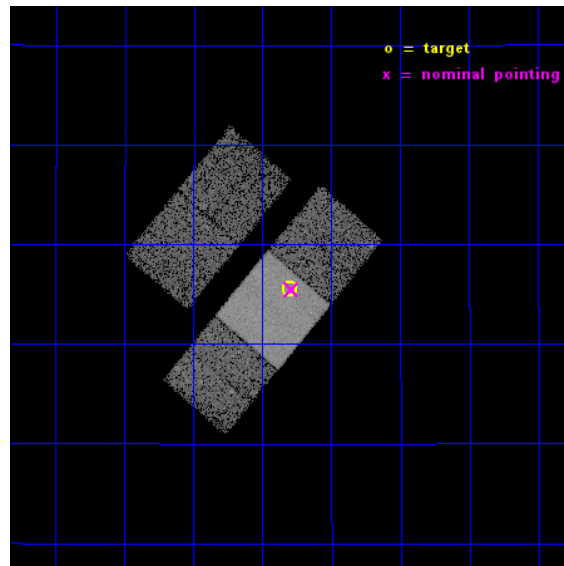
L2 Processing Date : Dec 6 2014

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1 Front

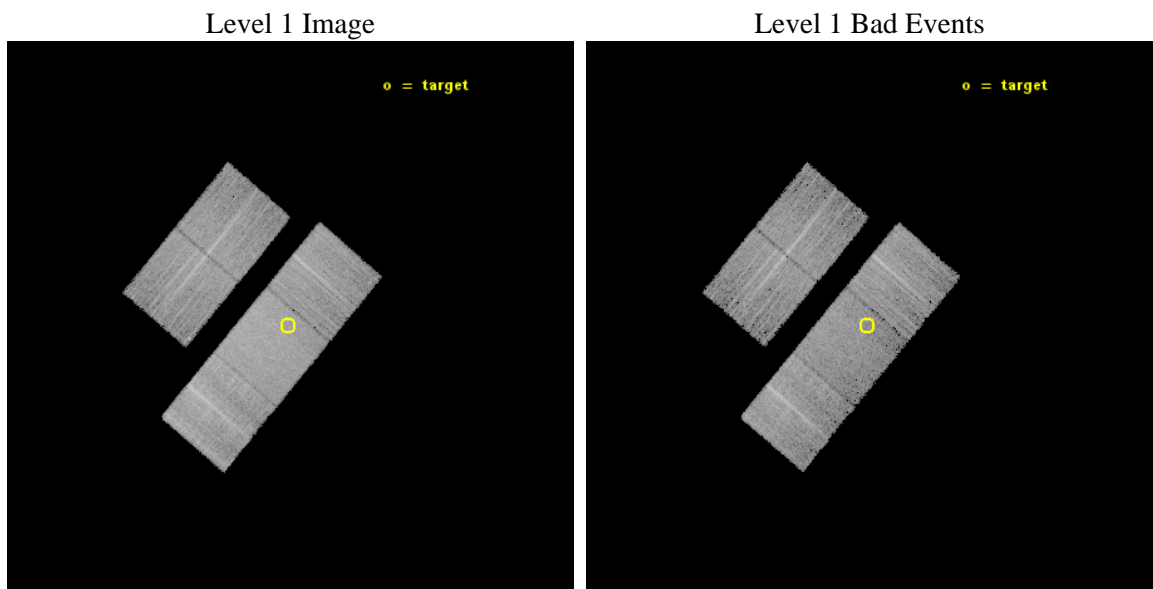
seq_num	502234	Sequence number
obs_id	16484	Observation id
title	State of the shocked plasma: X-ray and radio signatures from type IIP supernovae	Proposal title
observer	Prof. Alak Ray	Principal investigator
object	SN 2013ej	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	24.200667	Observer's specified target RA [deg]
dec_targ	15.758611	Observer's specified target Dec [deg]
ra_nom	24.197548460469	Nominal RA [deg]
dec_nom	15.758195817508	Nominal Dec [deg]
roll_nom	130.15746896341	Nominal Roll [deg]
revision	2	Processing version of data
ontime	14876.335105419	Sum of GTIs [s]
livetime	14681.964835468	Livetime [s]
ontime2	14876.170945406	Sum of GTIs [s]
ontime3	14873.112005174	Sum of GTIs [s]
ontime6	14876.294065416	Sum of GTIs [s]
ontime7	14876.335105419	Sum of GTIs [s]
ontime8	14873.070974588	Sum of GTIs [s]
l2events	71817	Number of level 2 events



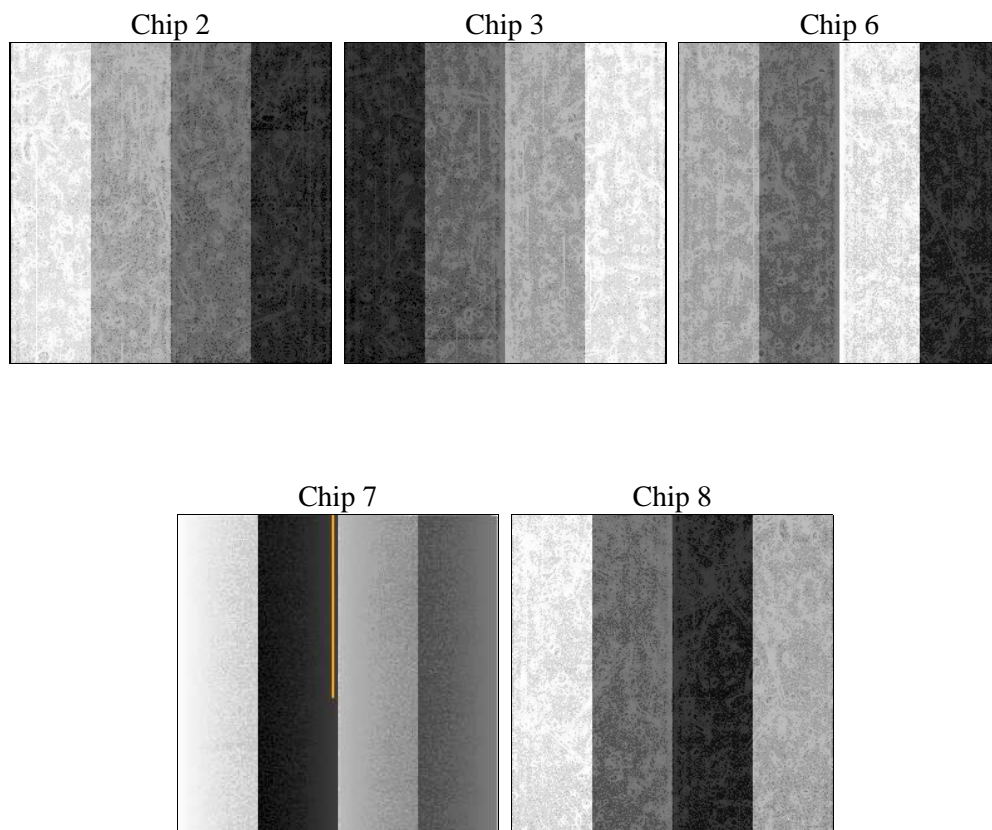
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	14810.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	14876.335105419	Sum of GTIs [s]
caldsver	4.6.4	 	ontime2	14876.170945406	Sum of GTIs [s]
date	2014-12-07T02:30:23	Date and time of file creation	ontime3	14873.112005174	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	14876.294065416	Sum of GTIs [s]
			ontime7	14876.335105419	Sum of GTIs [s]
			ontime8	14873.070974588	Sum of GTIs [s]
			l1events	400510	Number of level 1 events

2.1.4 Events

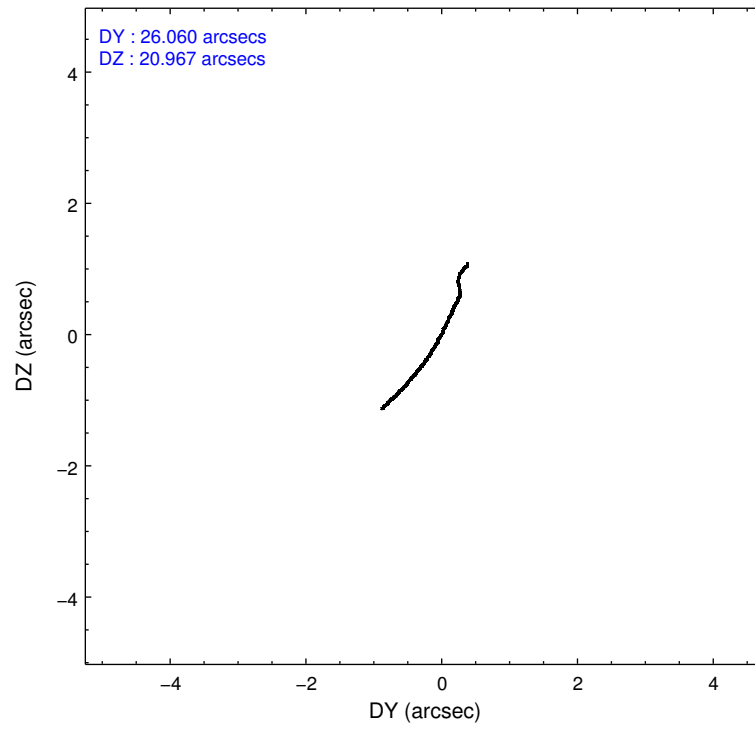
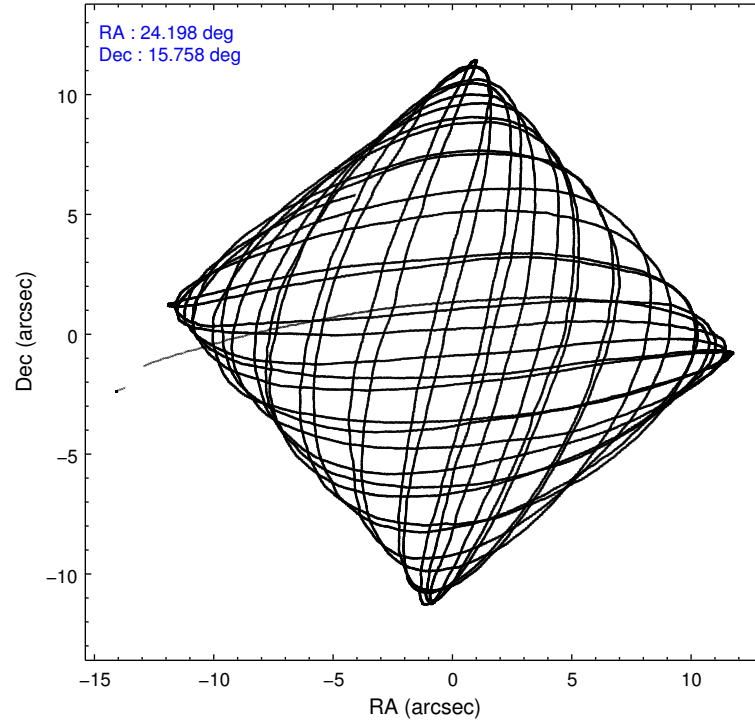
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	65663	68416	73749	97711	94971
rejected events	57664	60362	64785	55261	69980
rejected %	87%	88%	87%	56%	73%

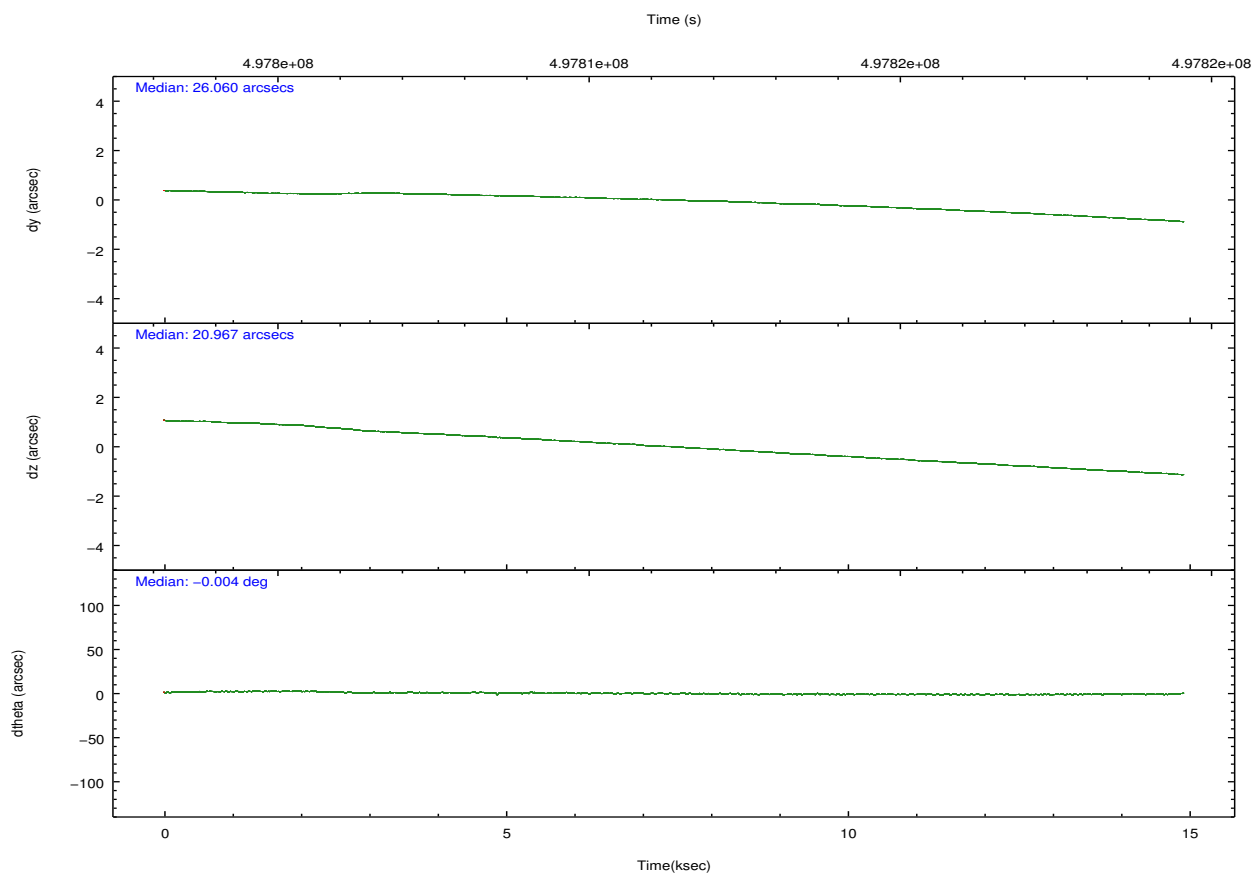
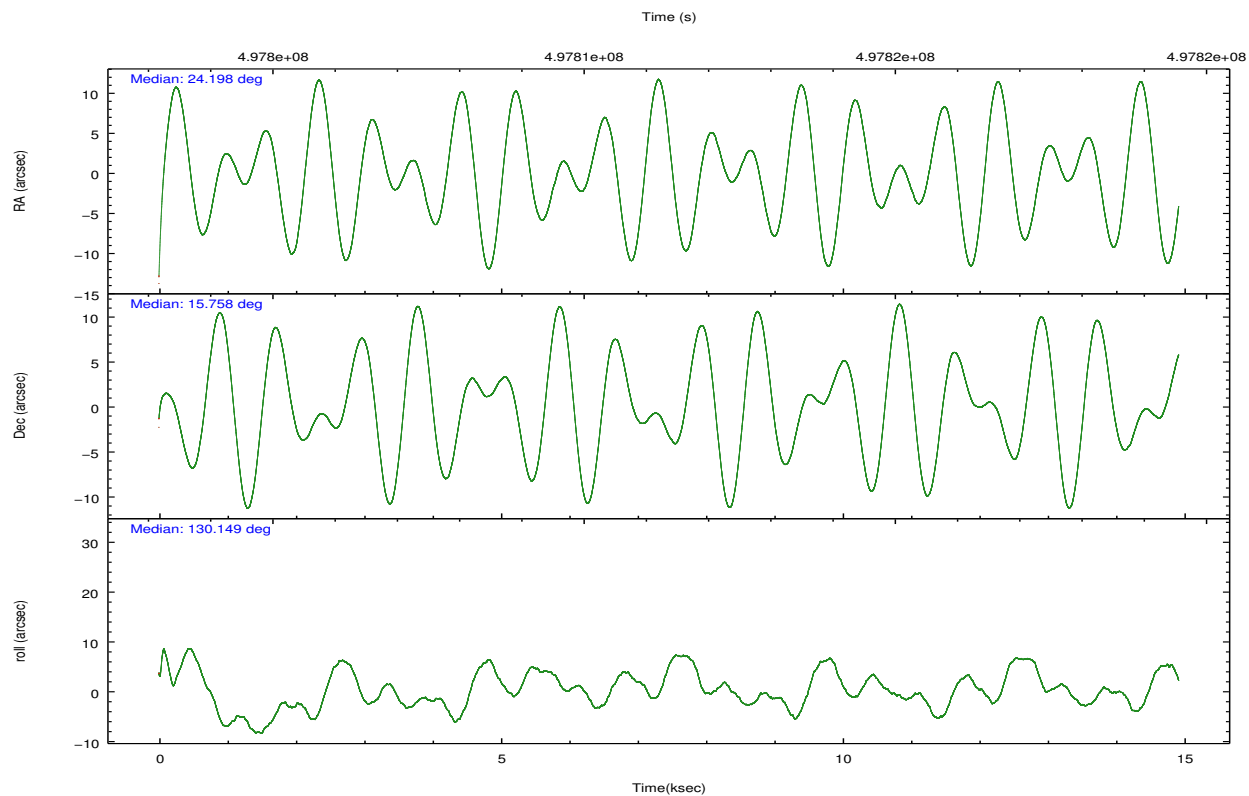
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	2798	2824	3043	3771	7407
	4%	4%	4%	3%	7%
grade 1 events	29	47	38	147	64
	0%	0%	0%	0%	0%
grade 2 events	1997	1771	2059	8618	5822
	3%	2%	2%	8%	6%
grade 3 events	792	878	932	3649	2732
	1%	1%	1%	3%	2%
grade 4 events	838	924	888	3663	2574
	1%	1%	1%	3%	2%
grade 5 events	3135	3659	3872	10072	5518
	4%	5%	5%	10%	5%
grade 6 events	1576	1660	2044	22776	6459
	2%	2%	2%	23%	6%
grade 7 events	54498	56653	60873	45015	64395
	82%	82%	82%	46%	67%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	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	24.224399	24.19754846046851	Subarray requested	NONE	NONE
[deg] Pointing Dec	15.749274	15.75819581750812	Alternating exposures requested	N	N
[deg] Pointing Roll	129.993556	130.1574689634105	[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	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	497803999.184000	497802683.90382			
Observation start date	2013-10-10T14:52:12	2013-10-10T14:31:23			
[s] Observation end time (MET)	497818809.184000	497819799.86726			
Observation end date	2013-10-10T18:59:02	2013-10-10T19:16:39			
Read mode	TIMED	TIMED			

2.3 Aspect



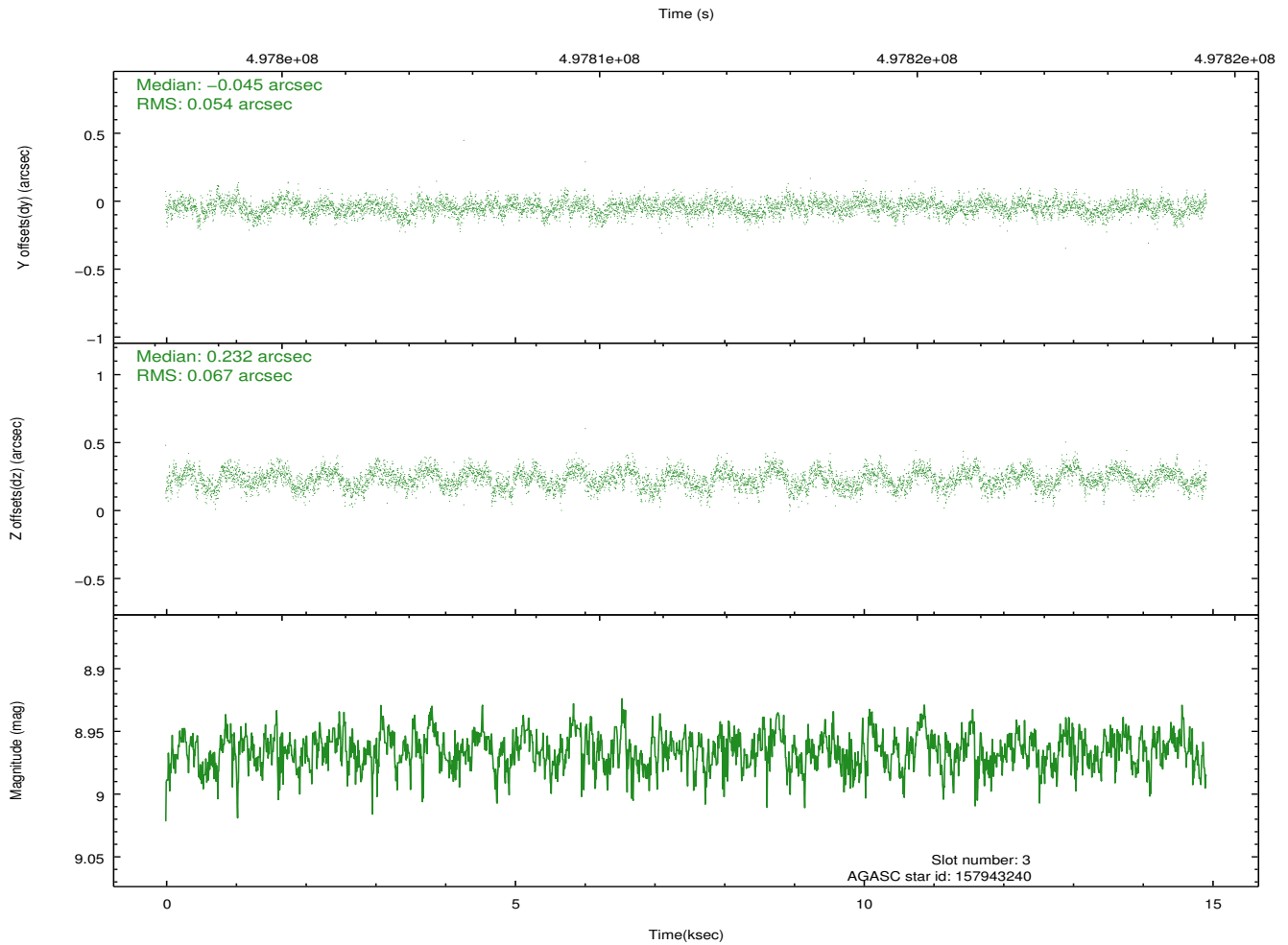
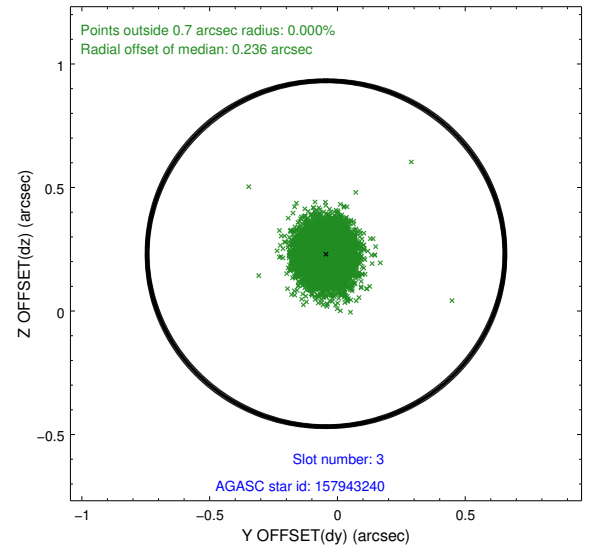
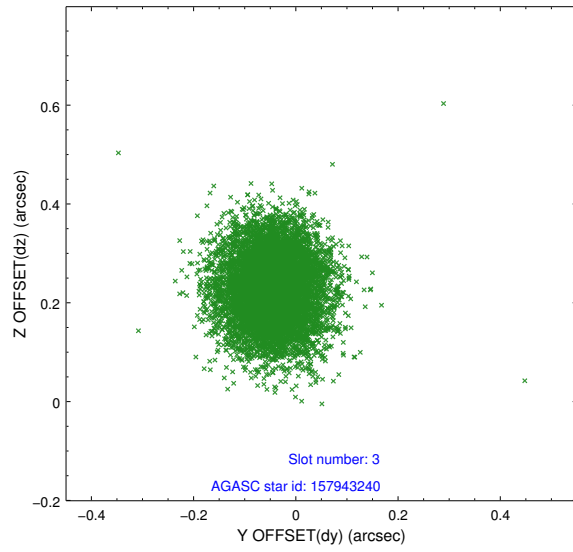


Slot Statistics

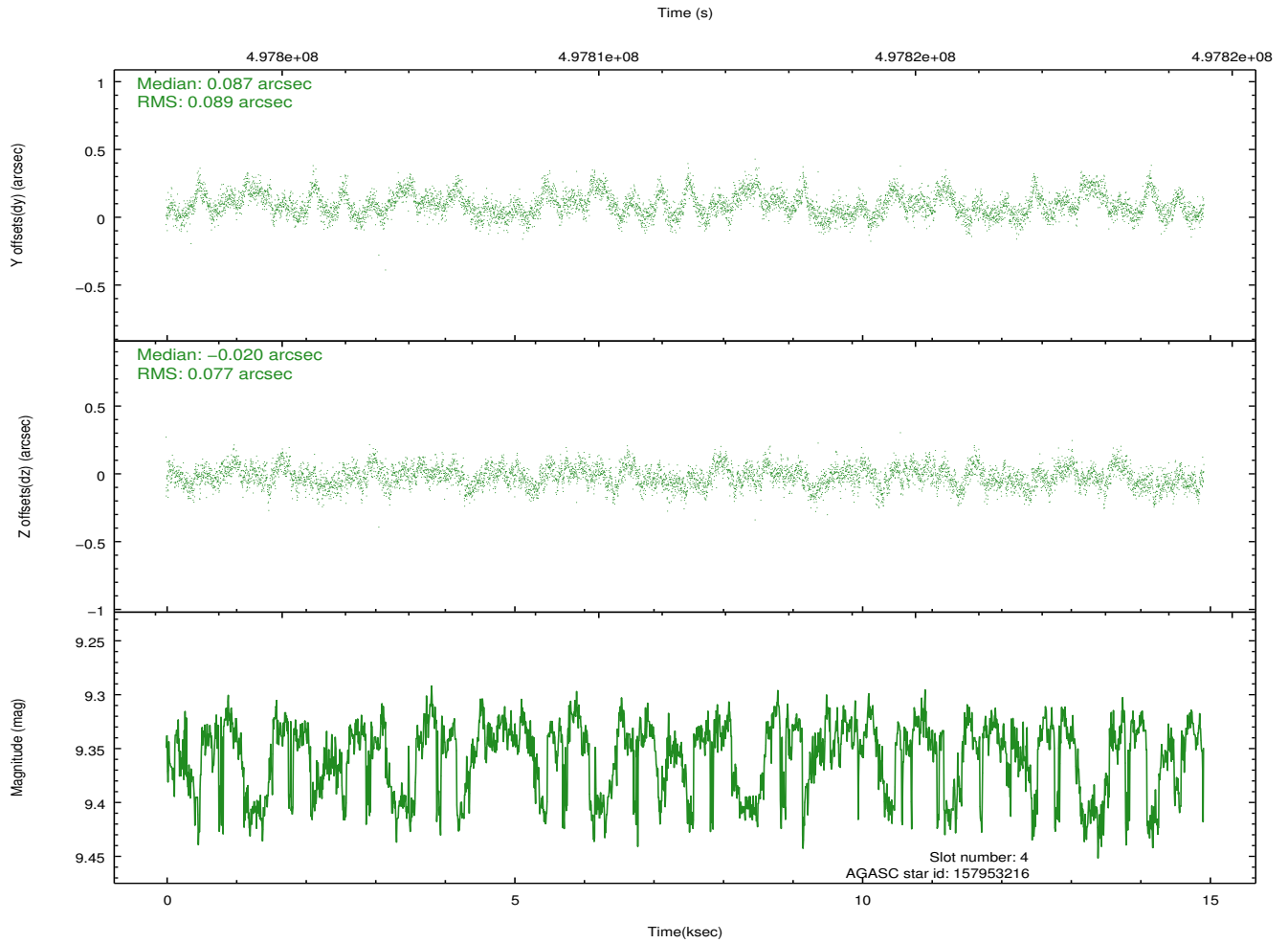
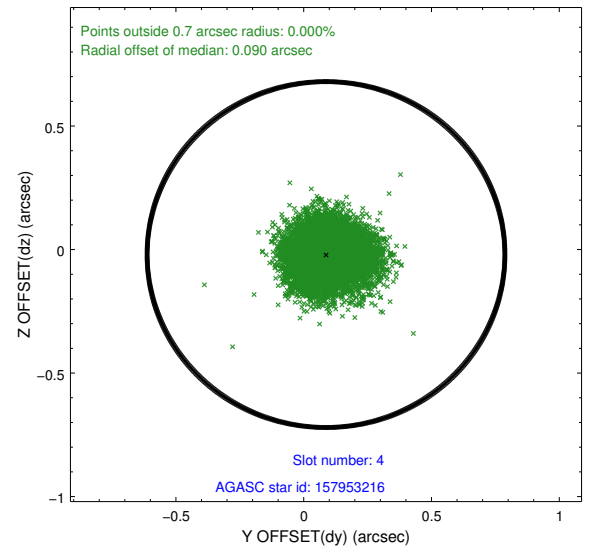
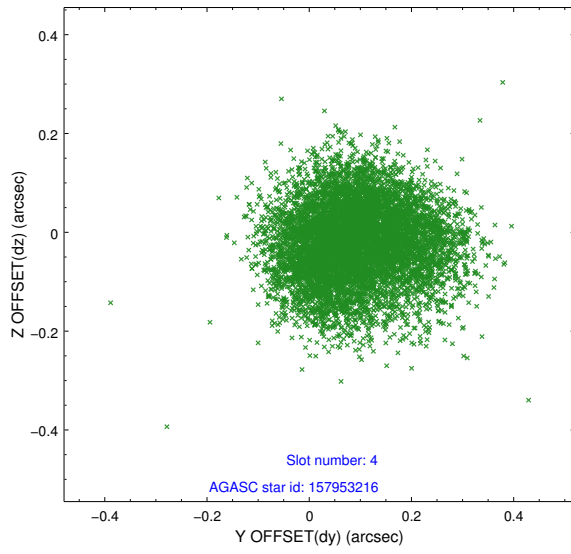
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.93	3639	-0.170	0.002	0.022	0.038	0.000000	0.000000	-779.40	-1742.50
1	FID		ACIS-S-4	7.03	3640	0.319	0.081	0.015	0.023	0.000000	0.000000	2134.22	165.75
2	FID		ACIS-S-5	7.06	3639	-0.181	-0.077	0.018	0.036	0.000000	0.000000	-1831.87	159.61
3	GUIDE	used	157943240	8.97	7277	-0.045	0.232	0.092	0.145	24.500363	16.361777	1077.81	-2147.37
4	GUIDE	used	157953216	9.35	7255	0.087	-0.020	0.127	0.197	24.189817	15.248642	-1303.14	1250.06
5	GUIDE	used	157953384	9.49	7271	0.229	0.578	0.125	0.197	25.000047	15.804560	-1569.85	-2188.77
6	GUIDE	used	157026584	8.99	7261	-0.244	-0.340	0.113	0.176	23.464180	15.603174	1294.07	2353.99
7	GUIDE	used	157029352	9.06	7244	-0.035	-0.449	0.111	0.176	23.764744	15.271289	-291.31	2327.52

2.4 Star Slots

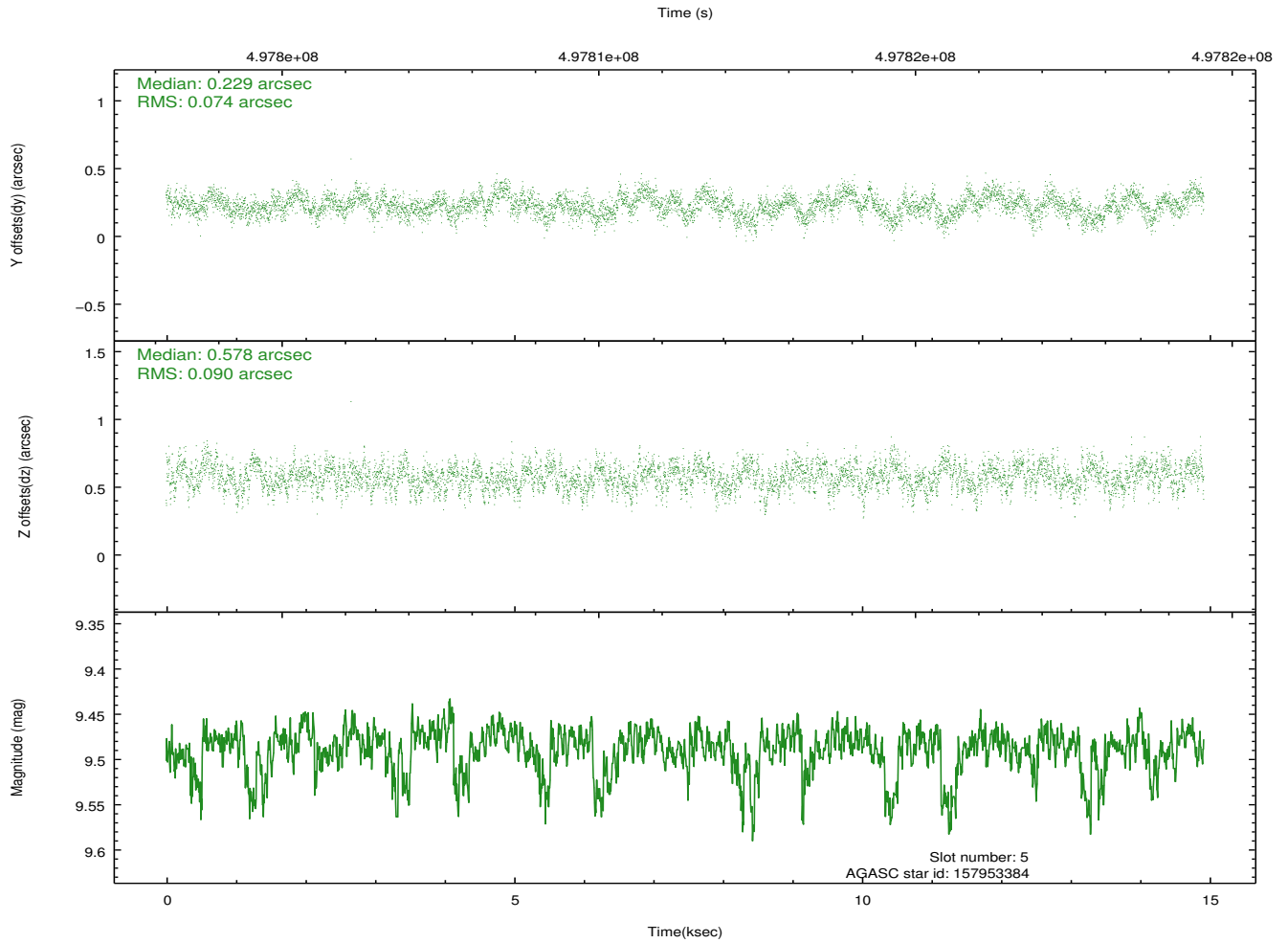
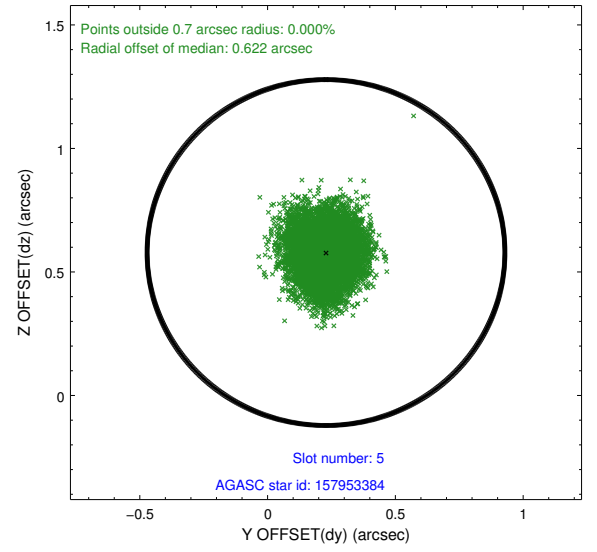
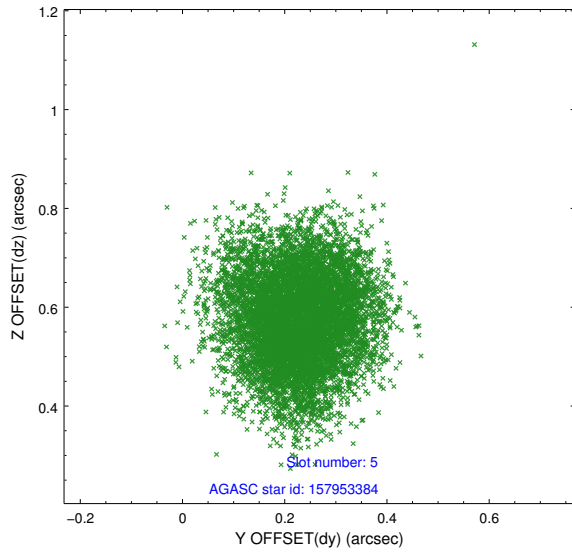
2.4.1 Slot 3



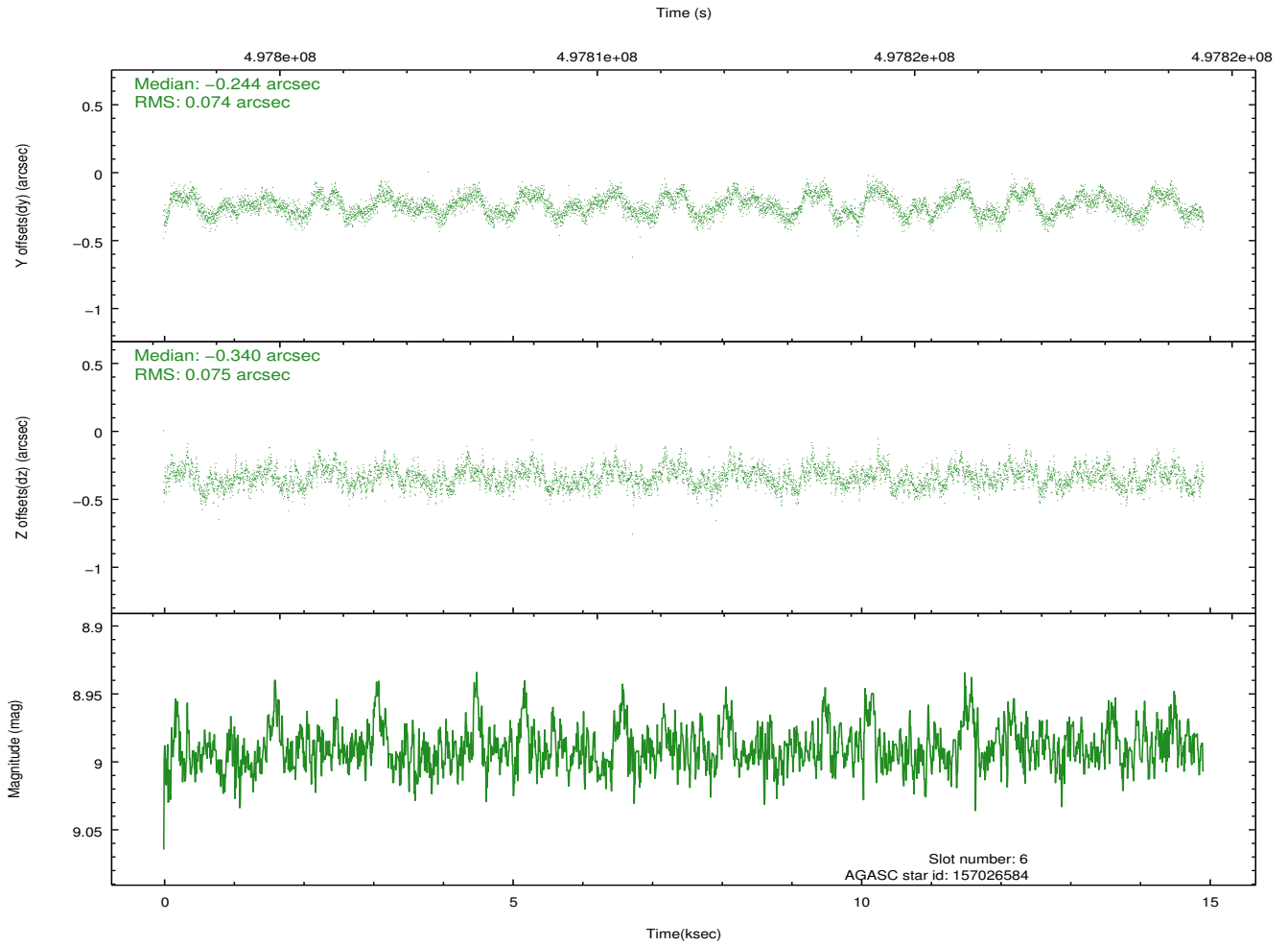
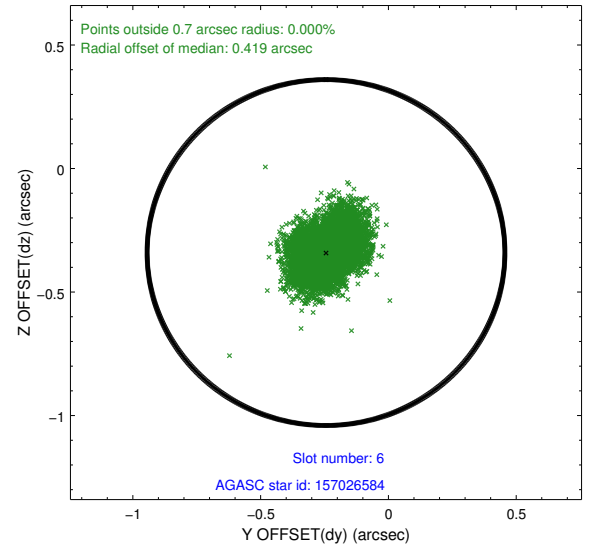
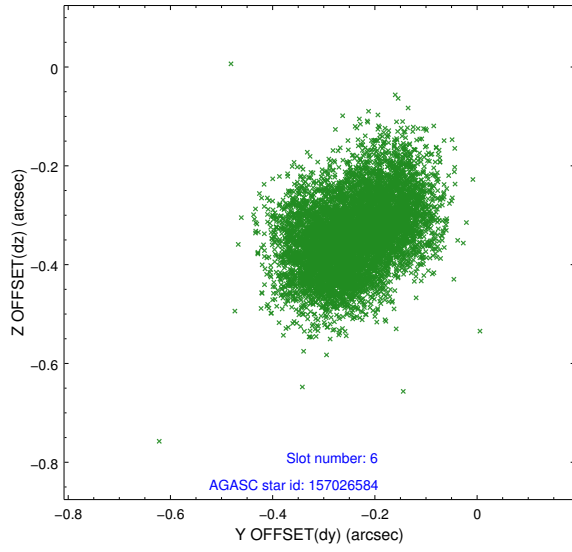
2.4.2 Slot 4



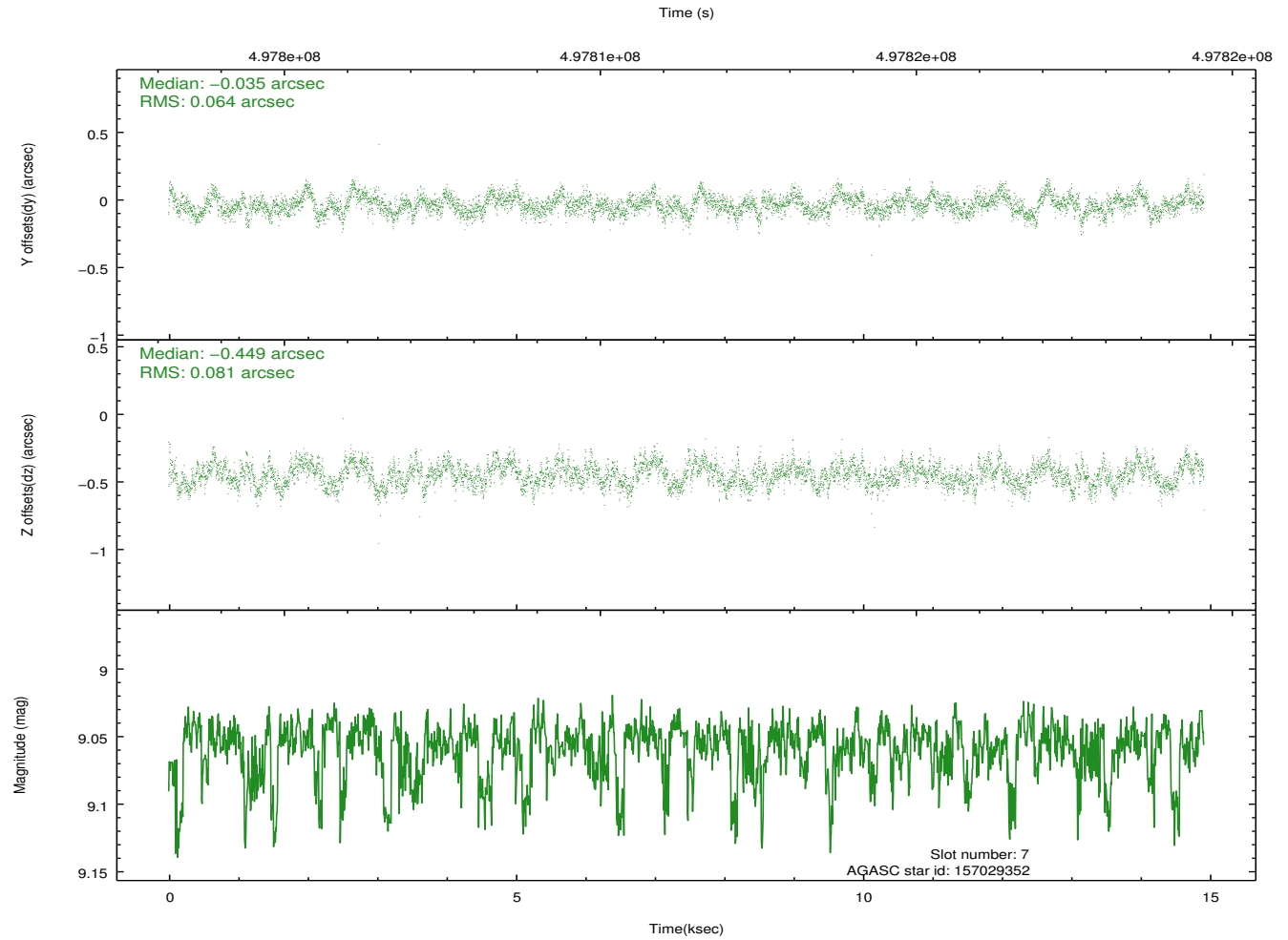
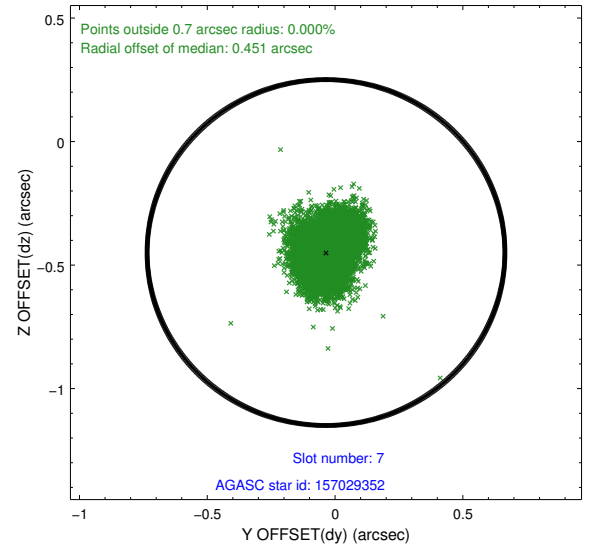
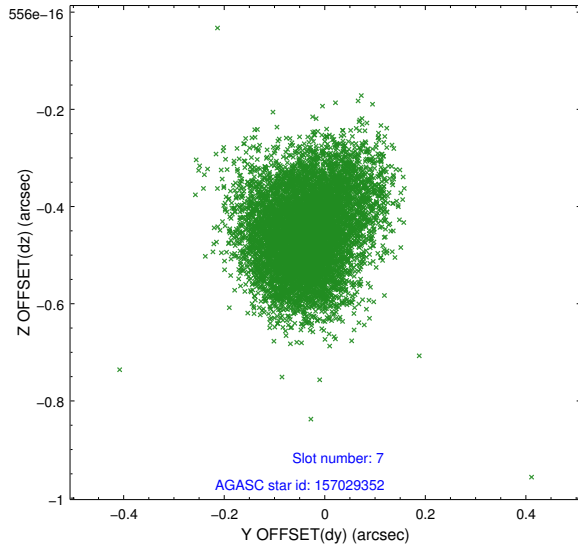
2.4.3 Slot 5



2.4.4 Slot 6

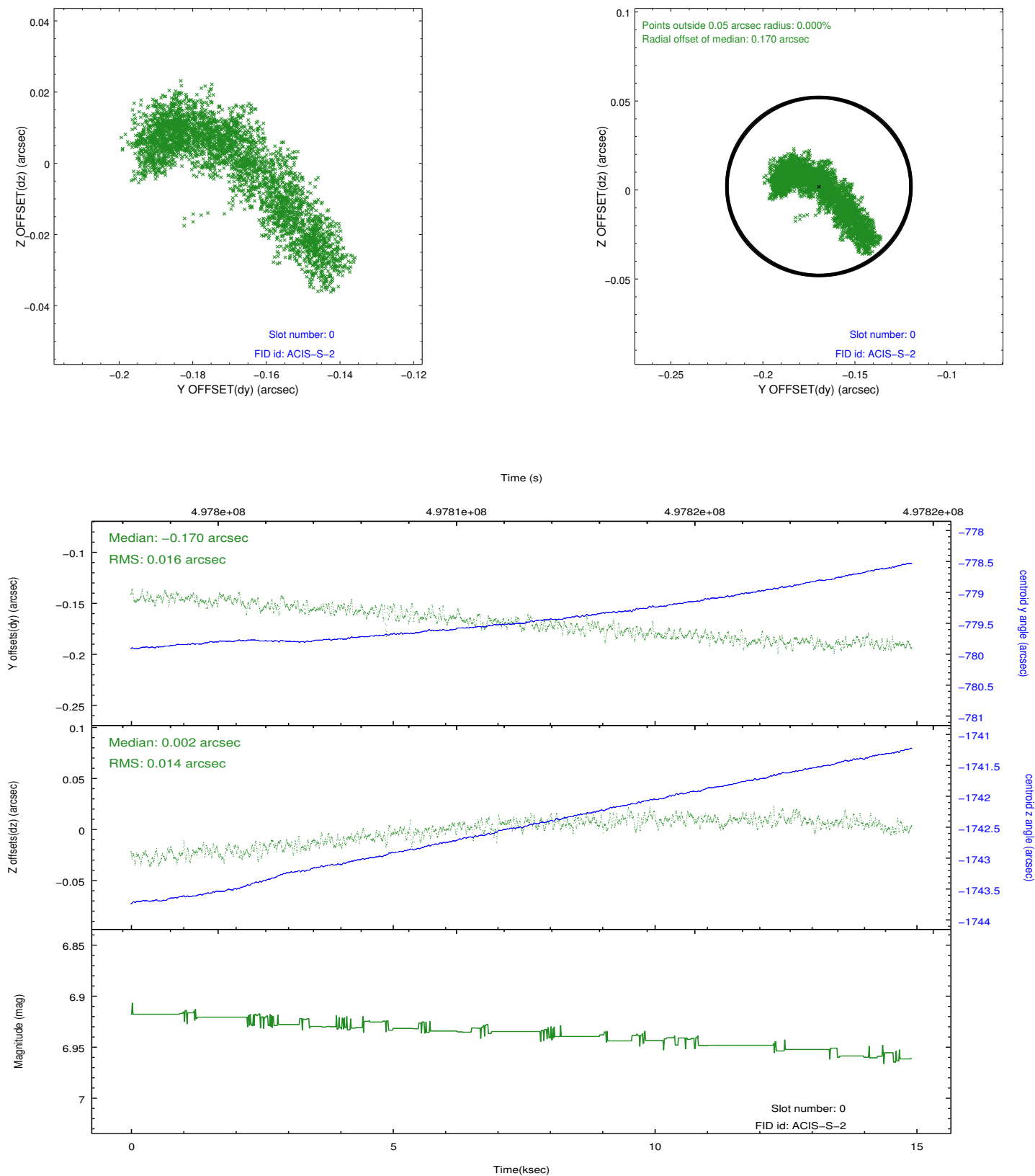


2.4.5 Slot 7

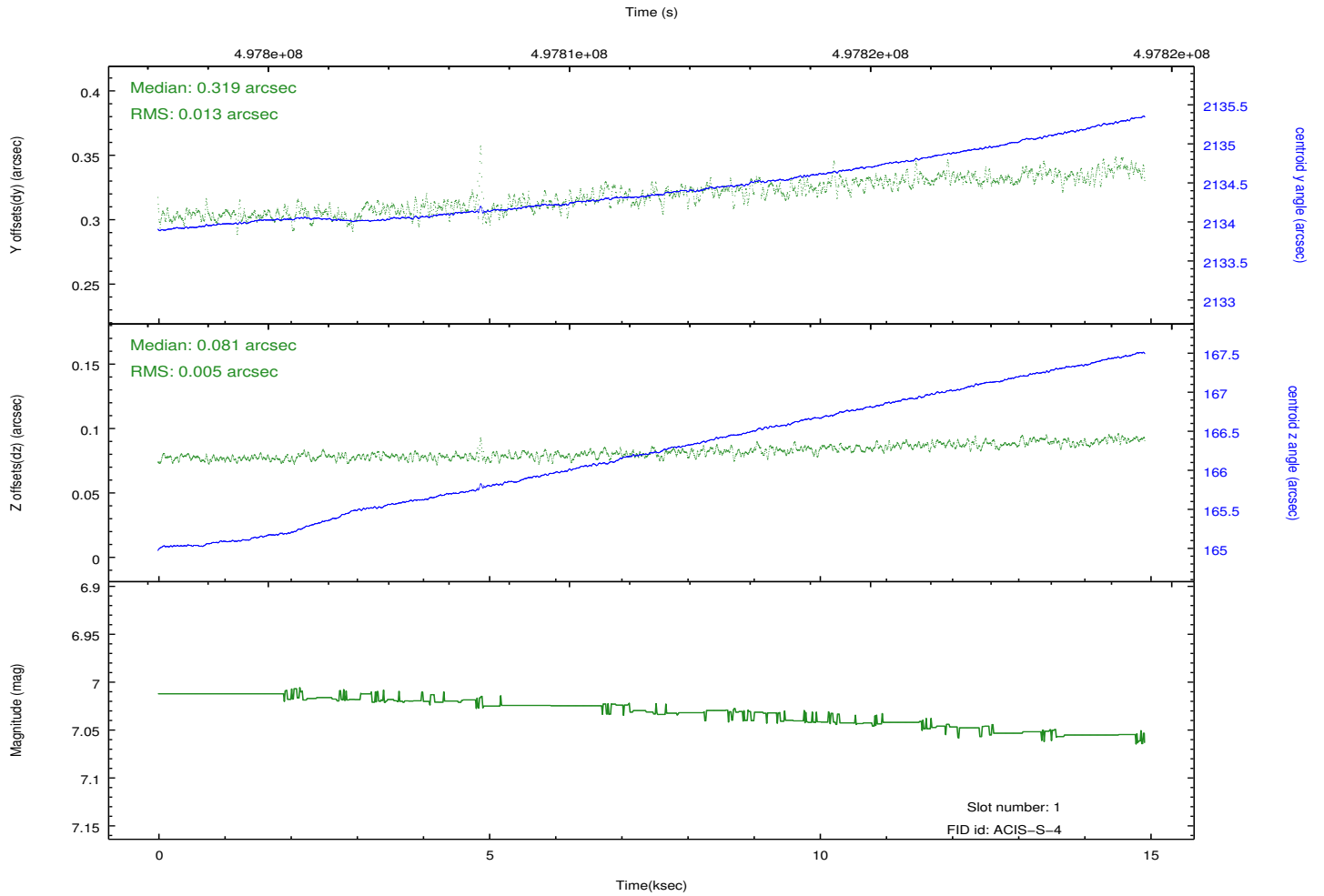
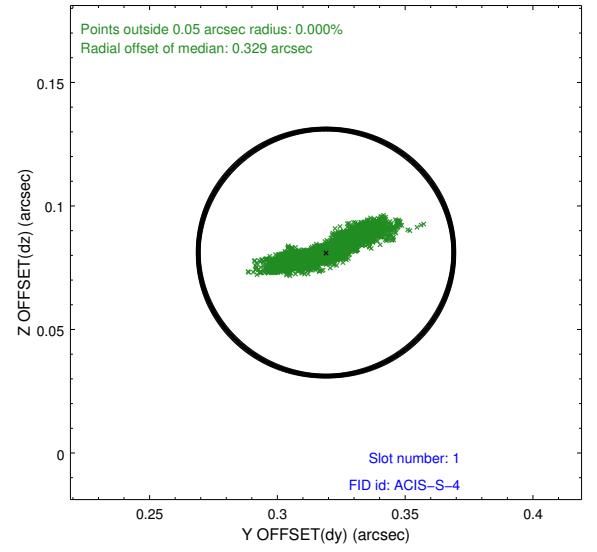
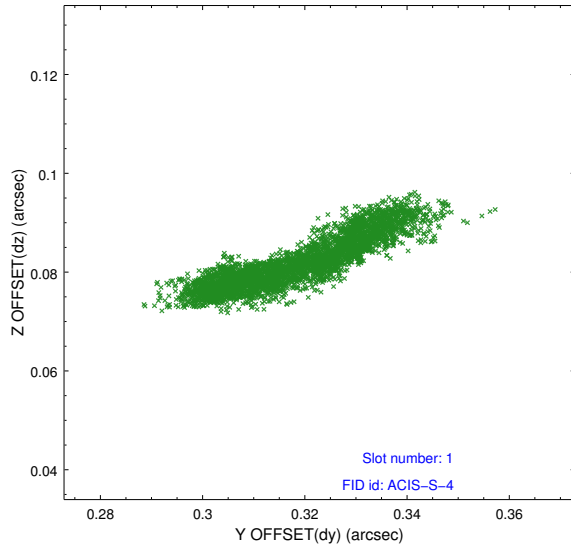


2.5 FID Slots

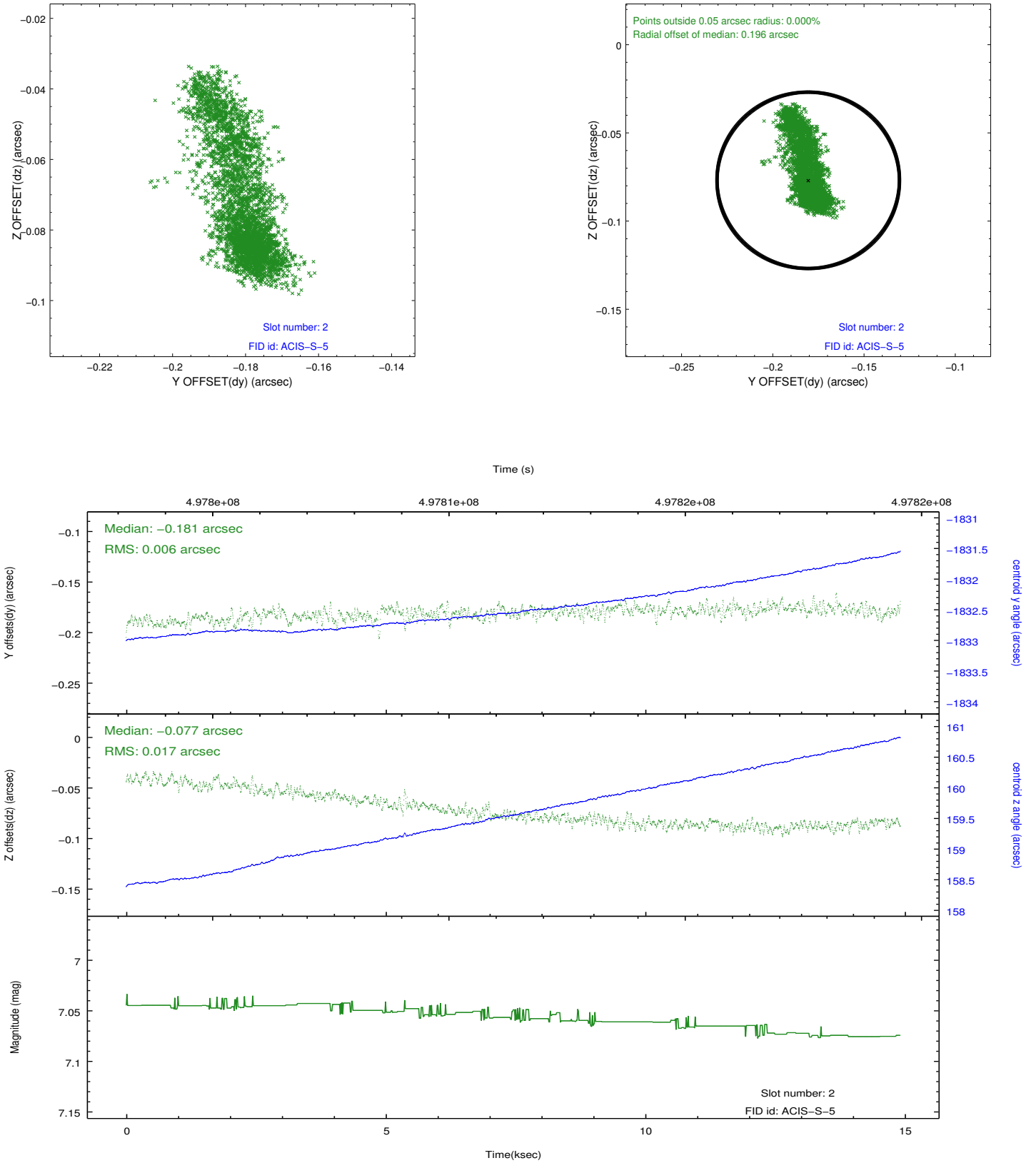
2.5.1 Slot 0



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)	2014.12.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	14.876335105419

A.2 Comments

Joint proposal with NRAO.

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.