

V&V Reference Report

L2 ASCDS Version : 10

Observation 14577 - L2 Version 2
Chandra X-Ray Center

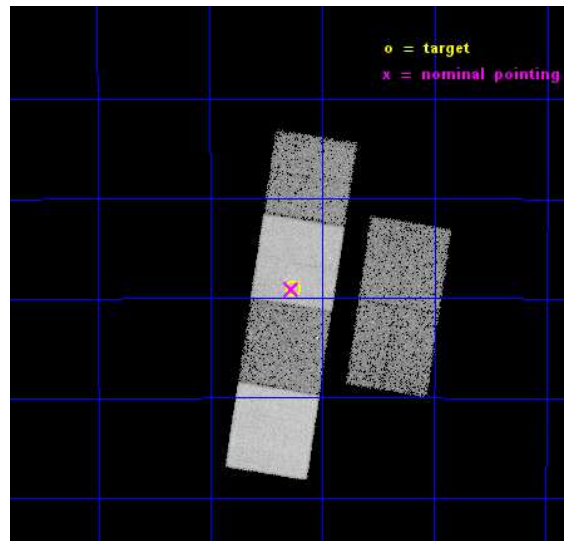
L2 Processing Date : Dec 4 2014

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1 Front

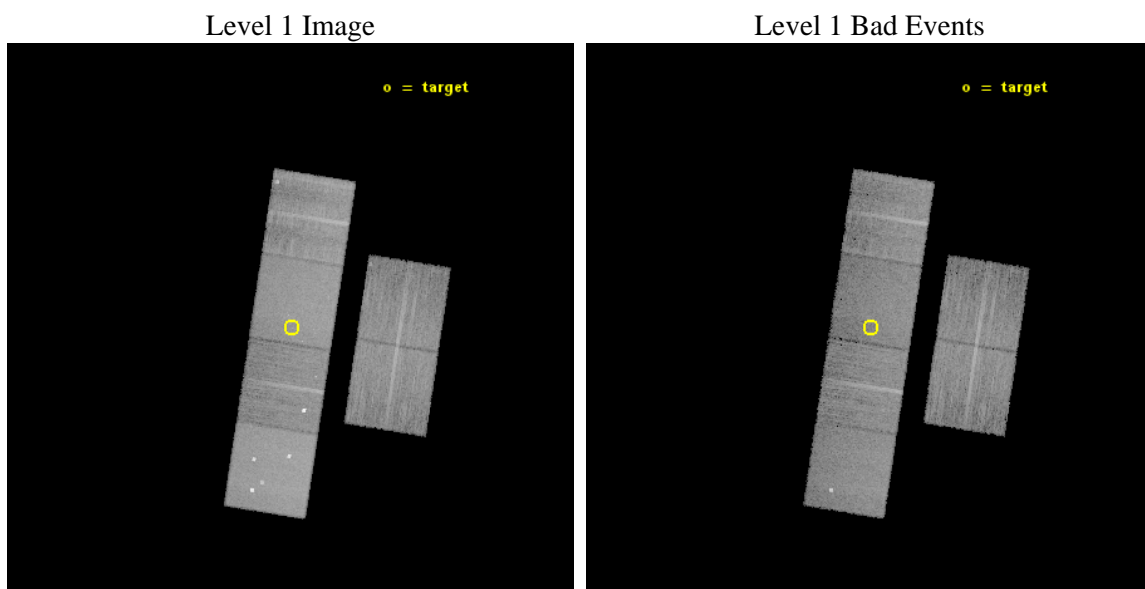
seq_num	200878	Sequence number
obs_id	14577	Observation id
title	COMPACT AND DIFFUSE X-RAY SOURCES IN THE YOUNGEST PLANETARY NEBULAE	
observer	Dr. Joel Kastner	Principal investigator
object	NGC 6337	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	260.565417	Observer's specified target RA [deg]
dec_targ	-38.484306	Observer's specified target Dec [deg]
ra_nom	260.56899026003	Nominal RA [deg]
dec_nom	-38.485501315174	Nominal Dec [deg]
roll_nom	278.87296298013	Nominal Roll [deg]
revision	2	Processing version of data
ontime	19967.279753208	Sum of GTIs [s]
livetime	19714.442034121	Livetime [s]
ontime2	19967.320793211	Sum of GTIs [s]
ontime3	19967.156633198	Sum of GTIs [s]
ontime5	19967.238713205	Sum of GTIs [s]
ontime6	19967.197673202	Sum of GTIs [s]
ontime7	19967.279753208	Sum of GTIs [s]
ontime8	19967.115593195	Sum of GTIs [s]
l2events	172953	Number of level 2 events



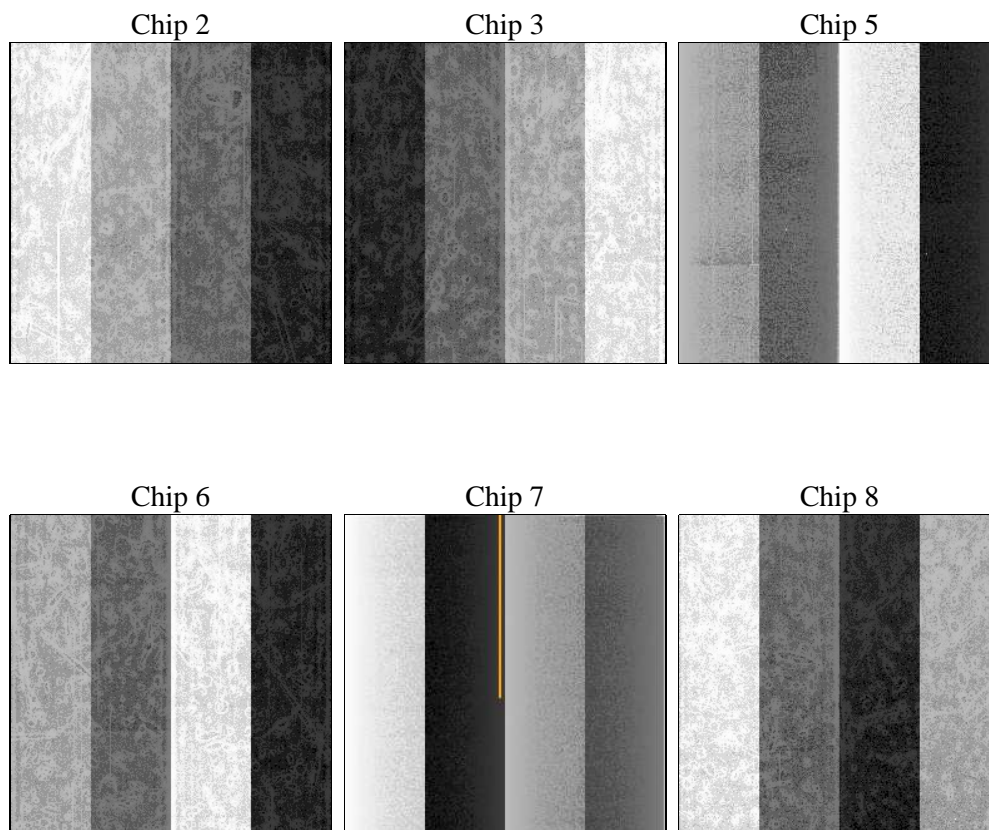
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	19967.279753208	Sum of GTIs [s]
caldsver	4.6.4	 	ontime2	19967.320793211	Sum of GTIs [s]
date	2014-12-04T21:59:35	Date and time of file creation	ontime3	19967.156633198	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	19967.238713205	Sum of GTIs [s]
			ontime6	19967.197673202	Sum of GTIs [s]
			ontime7	19967.279753208	Sum of GTIs [s]
			ontime8	19967.115593195	Sum of GTIs [s]
			l1events	713284	Number of level 1 events

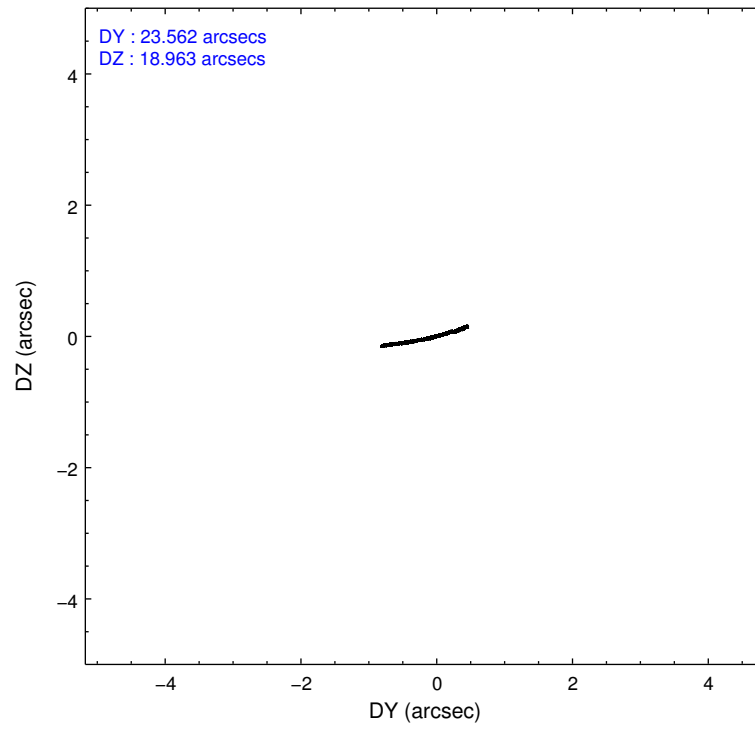
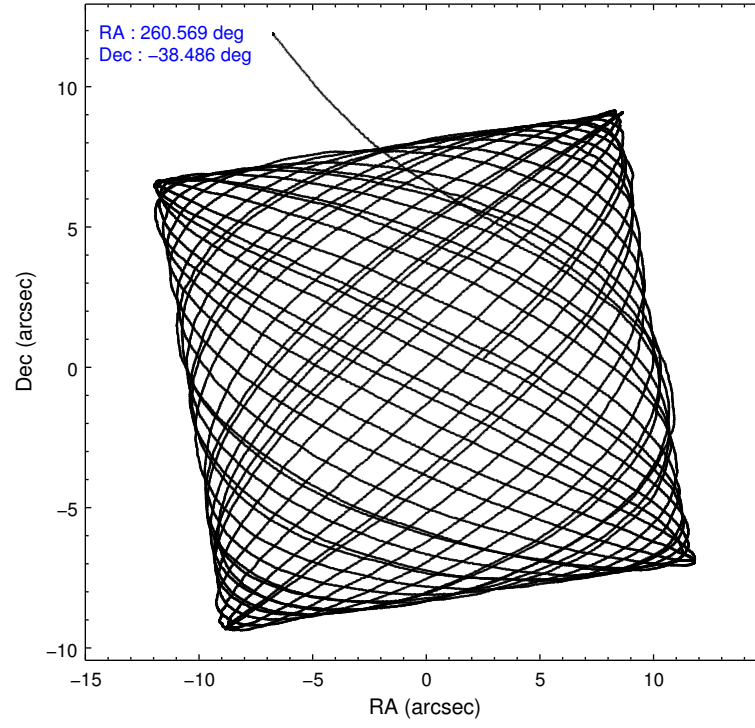
2.1.4 Events

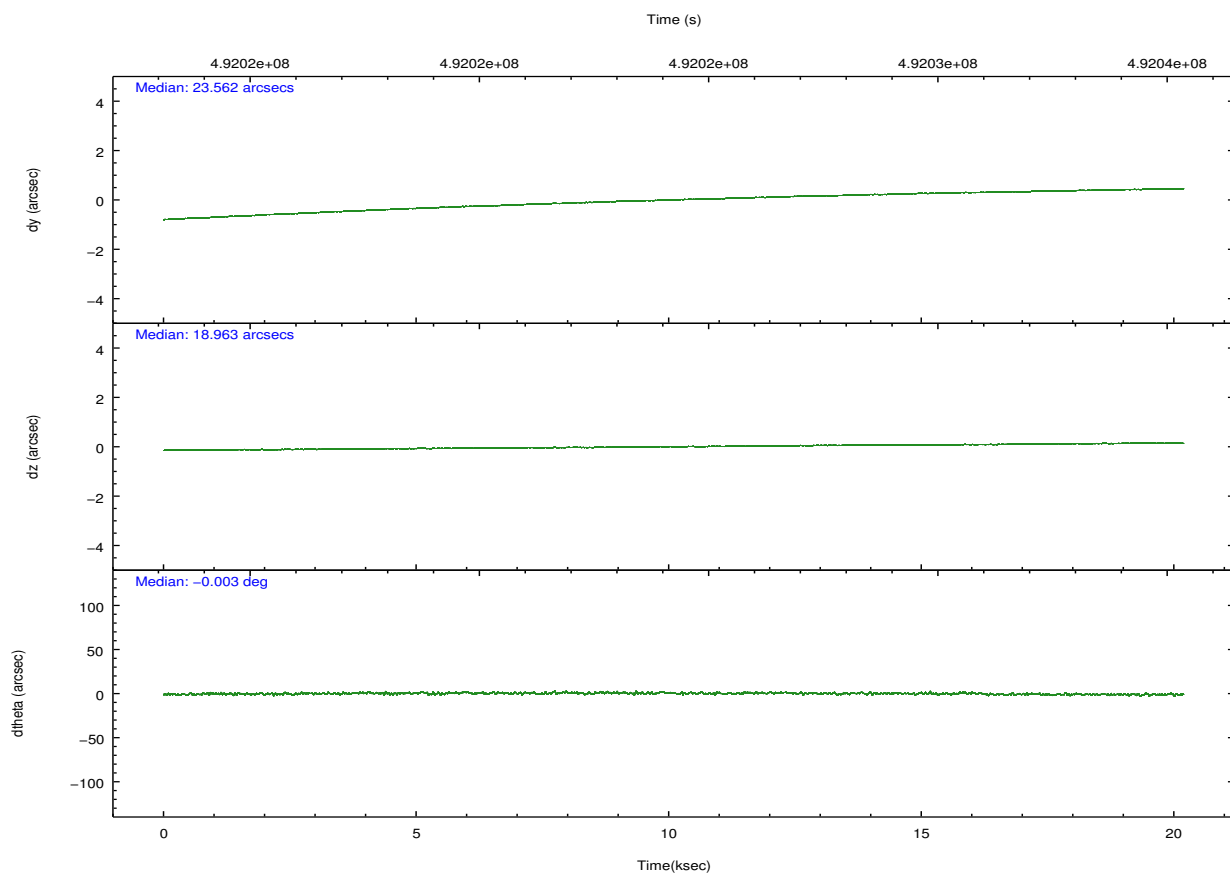
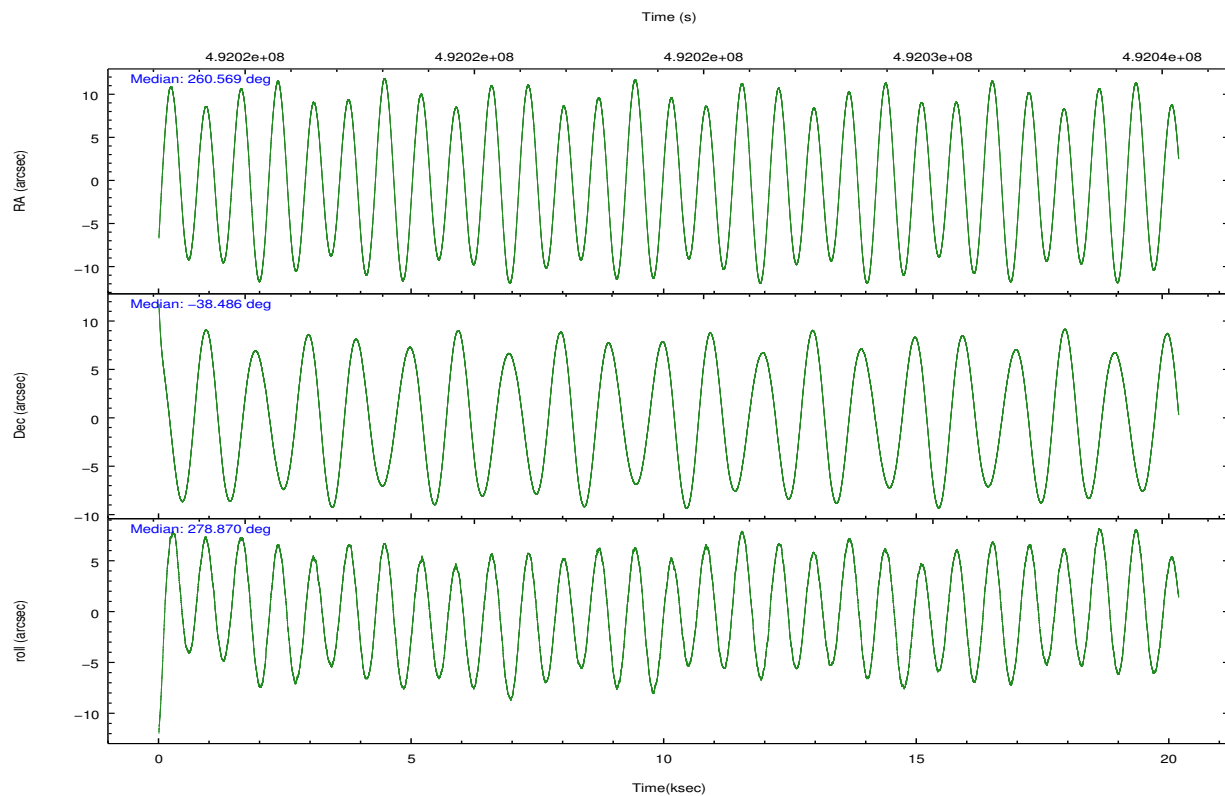
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	98341	90188	165810	101937	132145	124863	grade 0 events	4388	4387	11579	10983	5484	11208
rejected events	86722	78901	83215	83003	73591	89014		4%	4%	6%	10%	4%	8%
rejected %	88%	87%	50%	81%	55%	71%	grade 1 events	69	58	315	86	167	103
								0%	0%	0%	0%	0%	0%
							grade 2 events	2742	2413	24606	2848	12010	8365
								2%	2%	14%	2%	9%	6%
							grade 3 events	1078	1073	2742	1208	5052	3527
								1%	1%	1%	1%	3%	2%
							grade 4 events	1147	1116	2562	1230	5017	3351
								1%	1%	1%	1%	3%	2%
							grade 5 events	4183	4961	12050	4915	13506	7139
								4%	5%	7%	4%	10%	5%
							grade 6 events	2265	2299	41121	2667	31000	9415
								2%	2%	24%	2%	23%	7%
							grade 7 events	82469	73881	70835	78000	59909	81755
								83%	81%	42%	76%	45%	65%

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	260.546670	260.5689902600316	CCD I2 on	O3	Y
[deg] Pointing Dec	-38.464469	-38.48550131517408	CCD I3 on	O2	Y
[deg] Pointing Roll	278.702451	278.8729629801292	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)	492014339.184000	492013023.3628	CCD S5 on	N	N
Observation start date	2013-08-04T14:37:52	2013-08-04T14:17:03	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	492034339.184000	492035023.964	On-chip summing requested	N	N
Observation end date	2013-08-04T20:11:12	2013-08-04T20:23:43	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



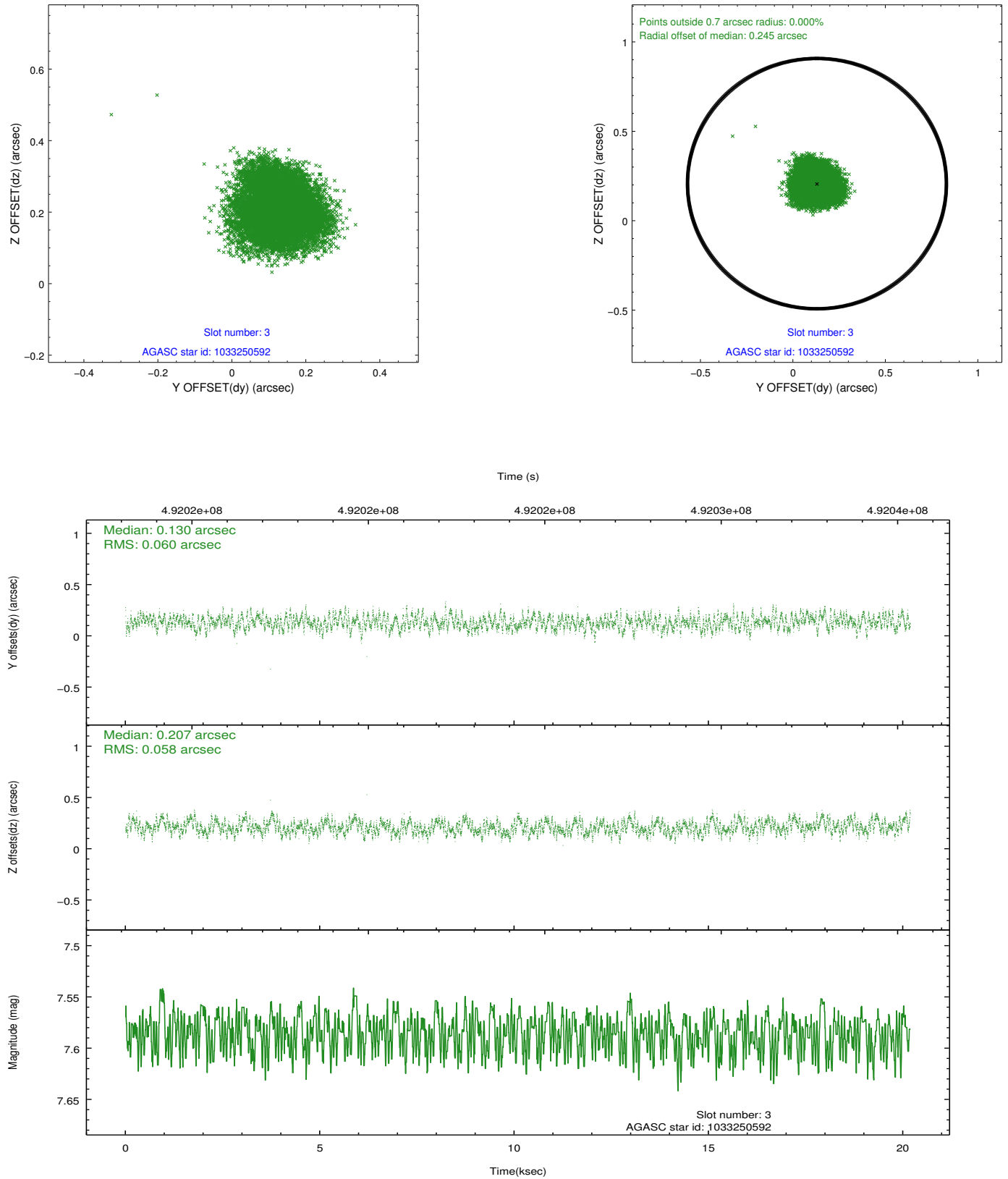


Slot Statistics

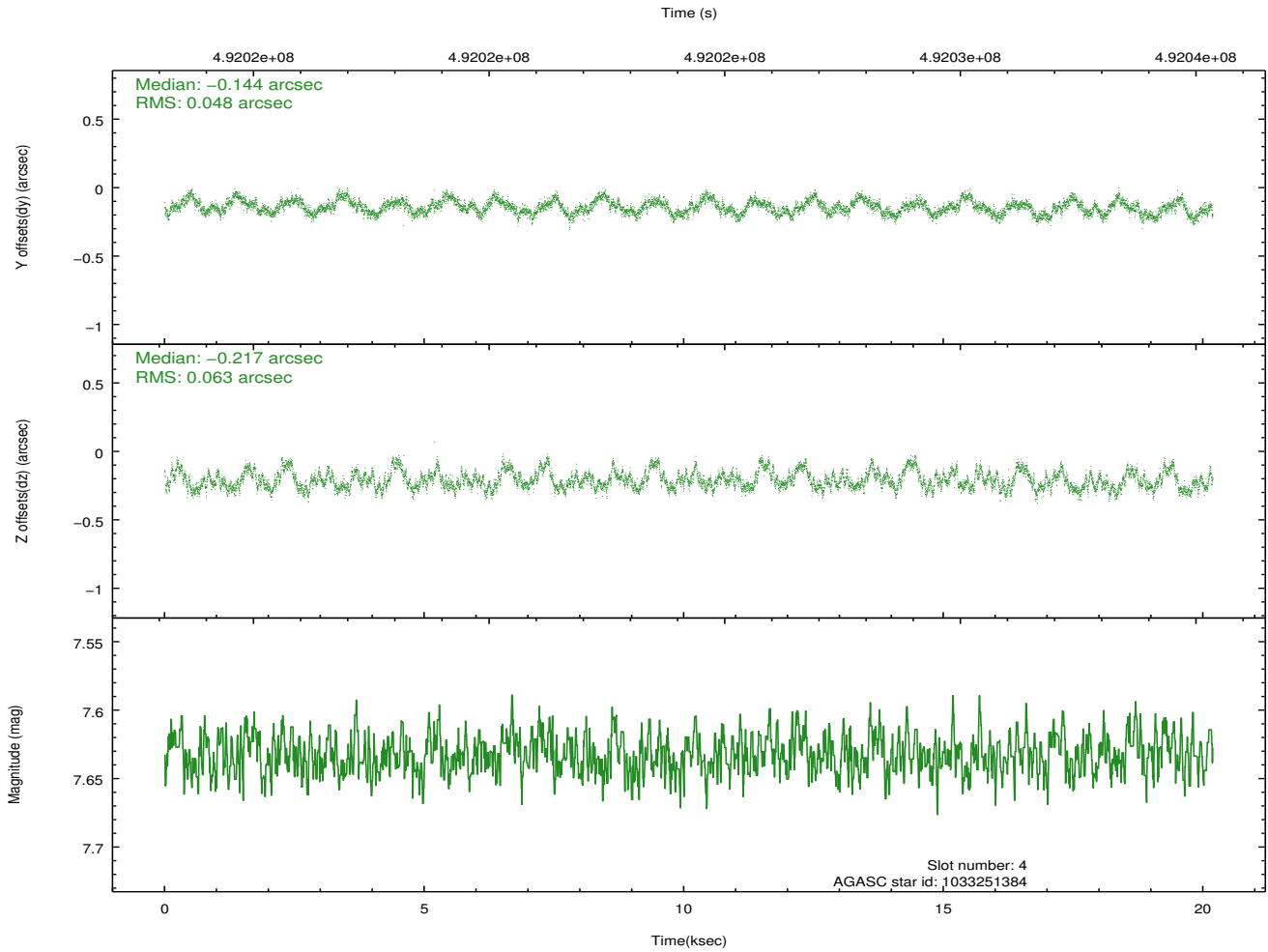
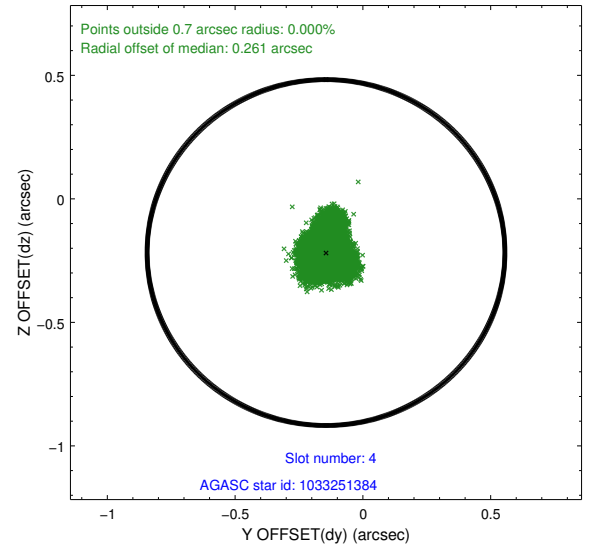
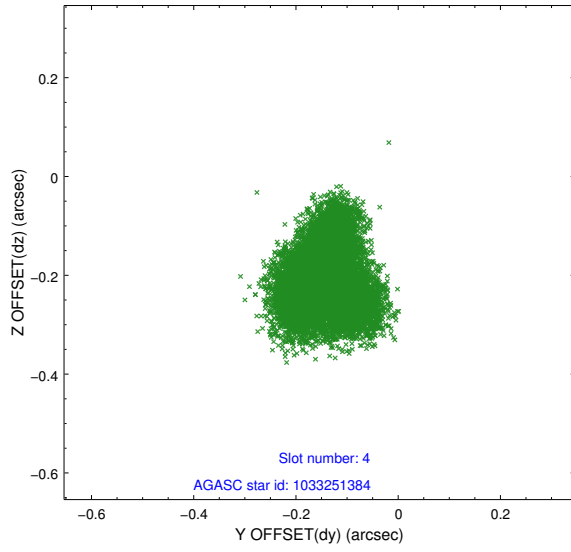
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	UNUSED			0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
1	FID		ACIS-S-5	7.10	4924	-0.158	-0.038	0.014	0.034	0.000000	0.000000	-1829.90	161.69
2	FID		ACIS-S-6	7.21	4924	0.141	0.047	0.014	0.034	0.000000	0.000000	384.85	805.48
3	GUIDE	used	1033250592	7.58	9846	0.130	0.207	0.090	0.139	260.179016	-38.020595	-1734.82	-789.12
4	GUIDE	used	1033251384	7.63	9844	-0.144	-0.217	0.085	0.134	261.280721	-38.316680	-204.24	2128.44
5	GUIDE	used	1033257128	9.25	9830	-0.170	-0.041	0.108	0.173	261.392815	-38.811032	1603.87	2155.43
6	GUIDE	used	1033254128	8.66	9811	0.036	-0.133	0.072	0.119	260.759804	-39.064623	2226.93	262.14
7	GUIDE	used	1031549280	8.03	9840	0.145	0.164	0.115	0.168	259.850615	-38.003687	-1930.42	-1701.86

2.4 Star Slots

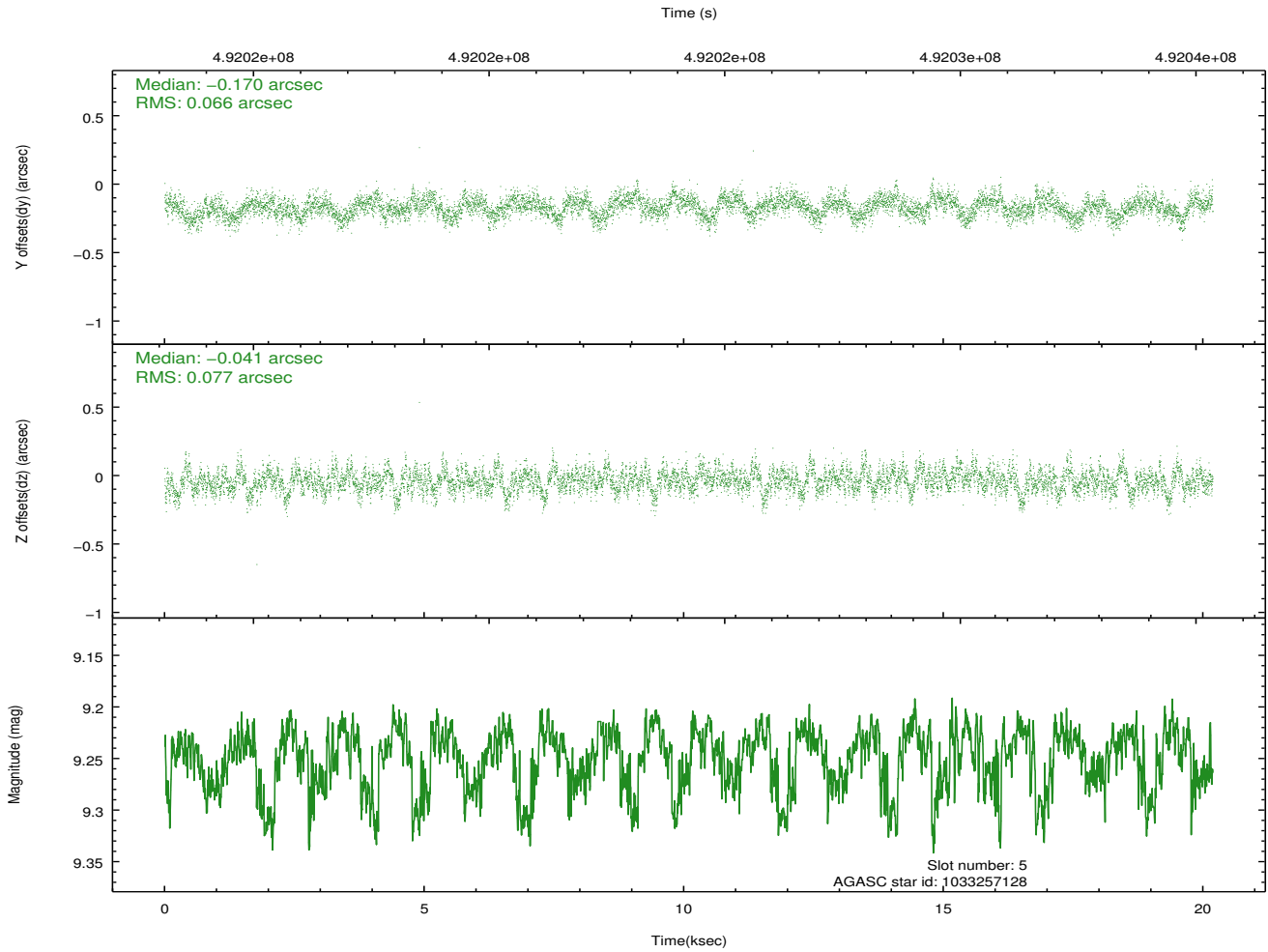
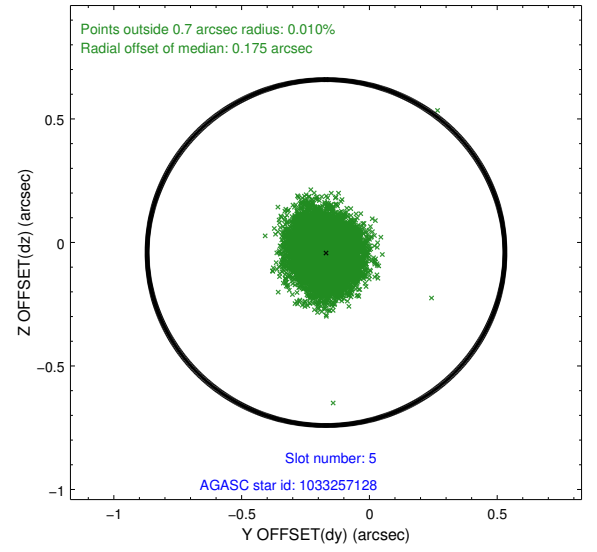
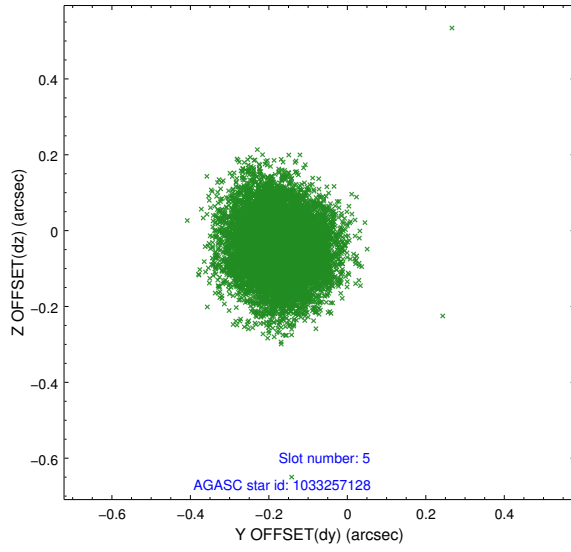
2.4.1 Slot 3



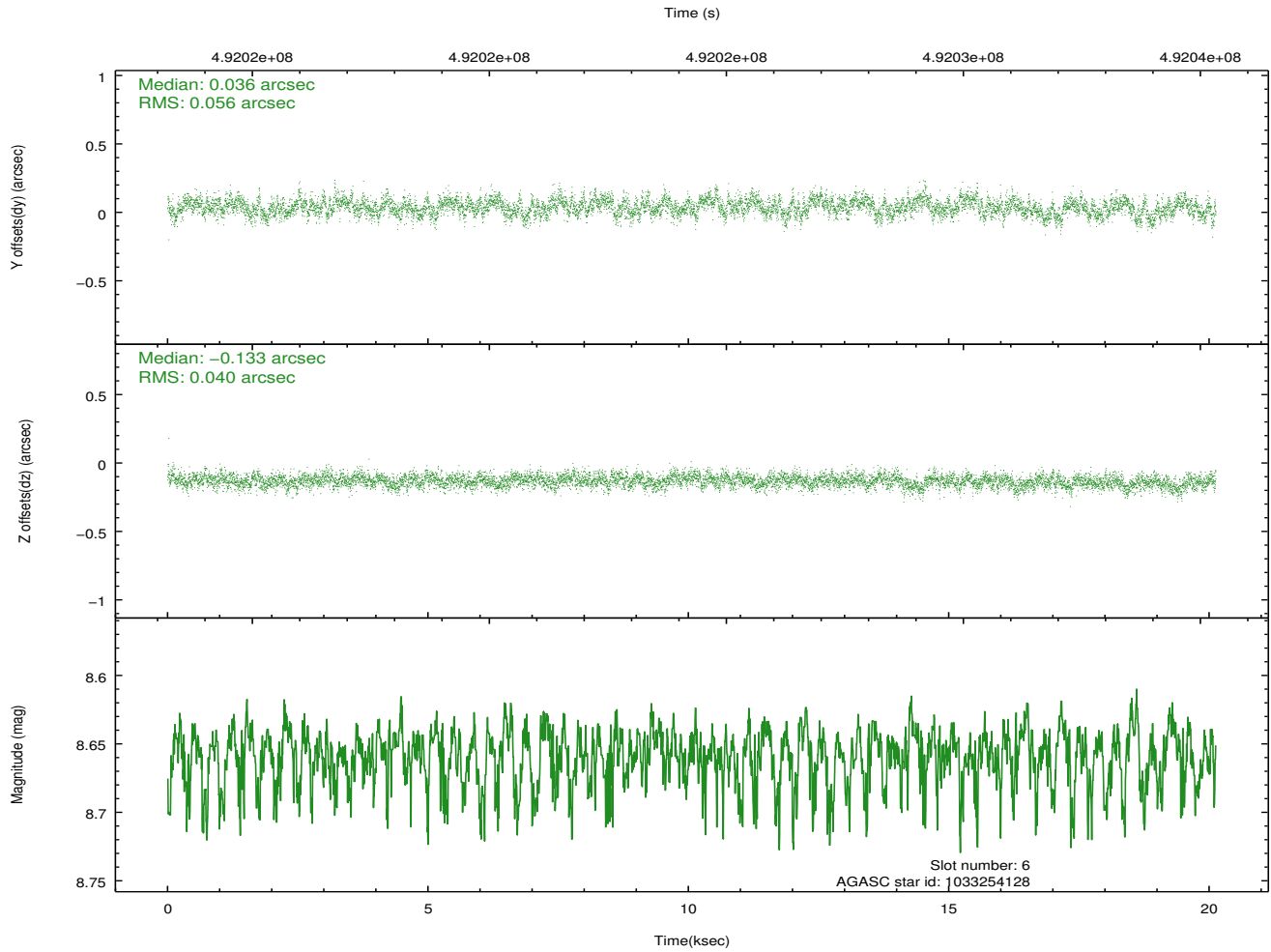
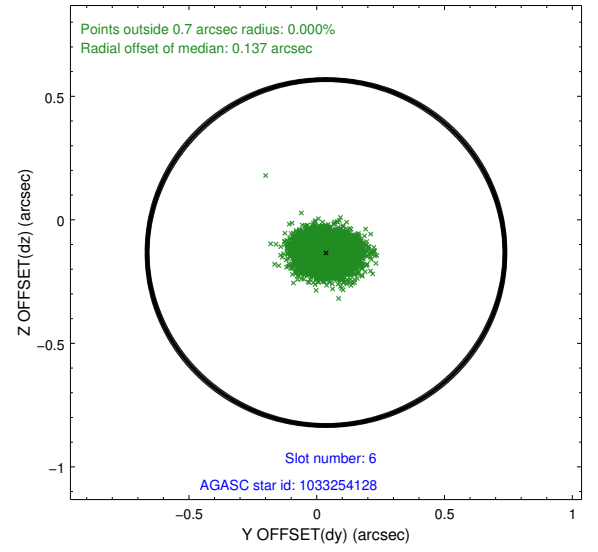
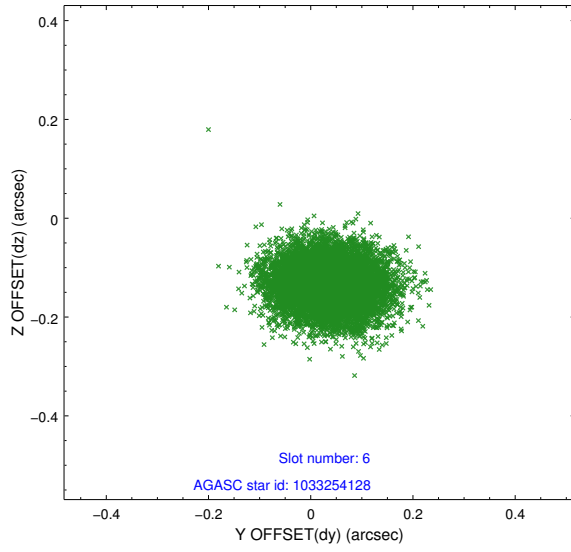
2.4.2 Slot 4



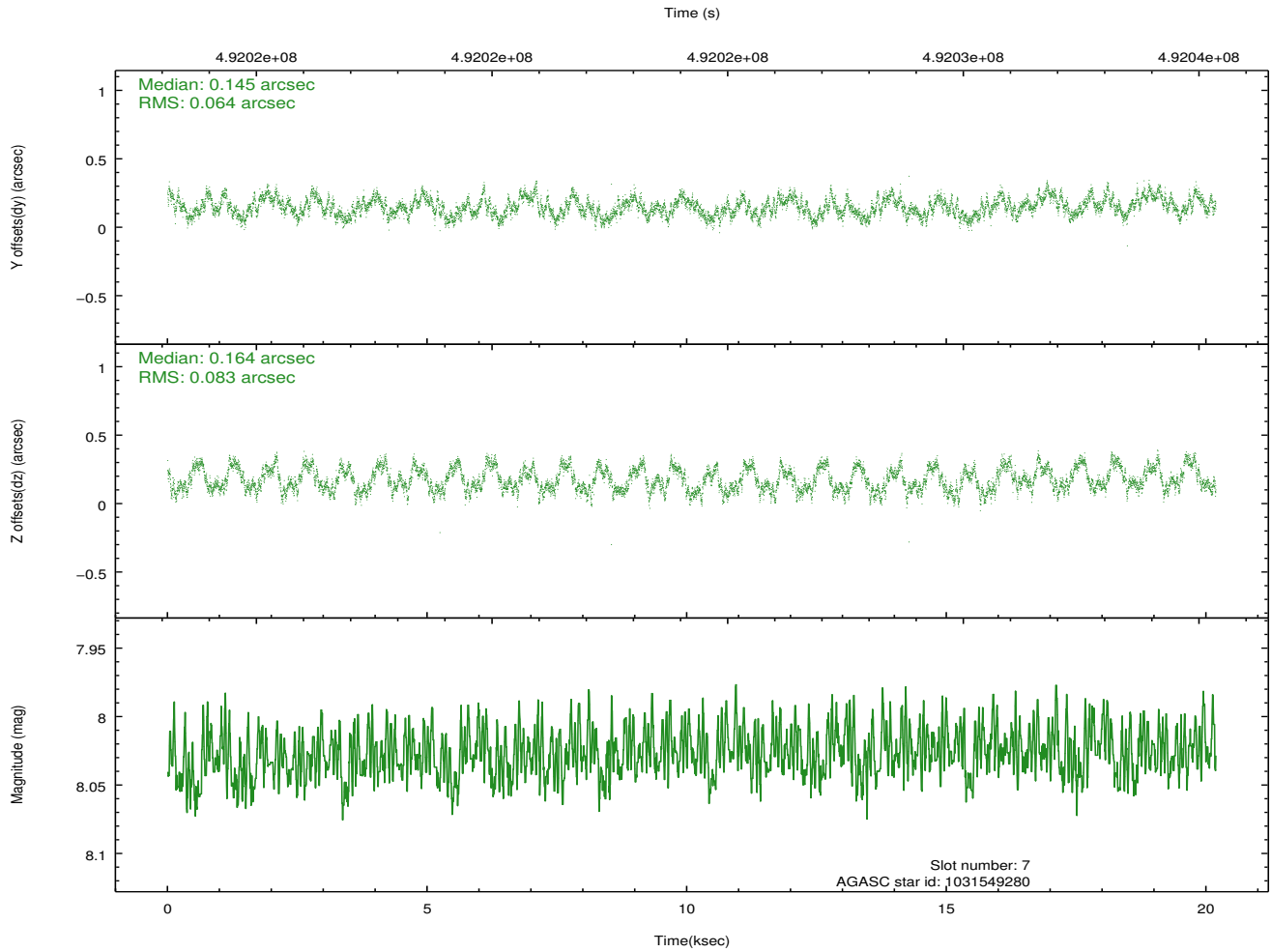
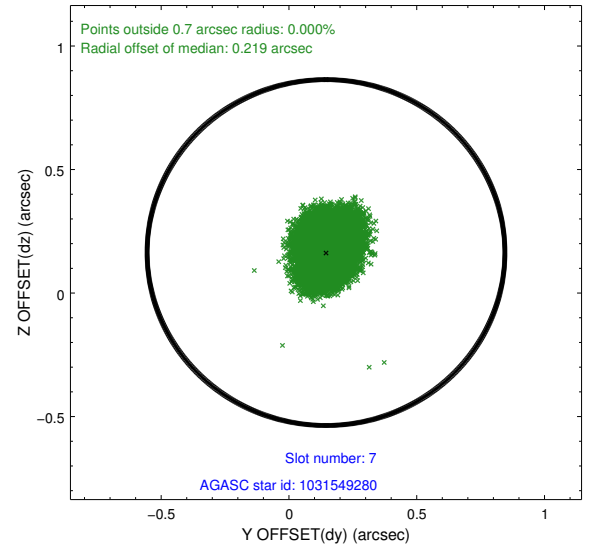
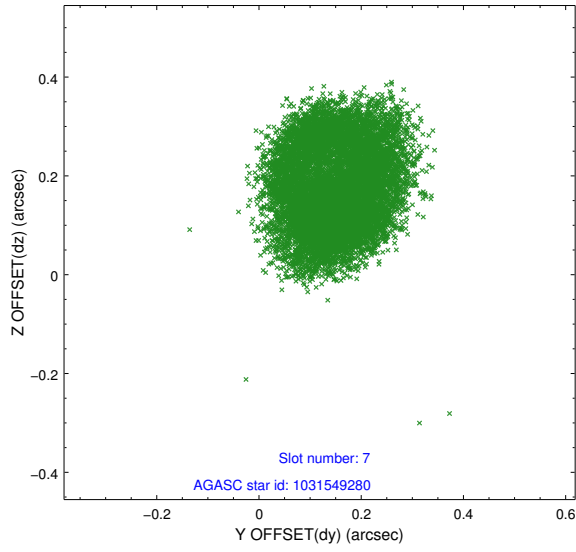
2.4.3 Slot 5



2.4.4 Slot 6

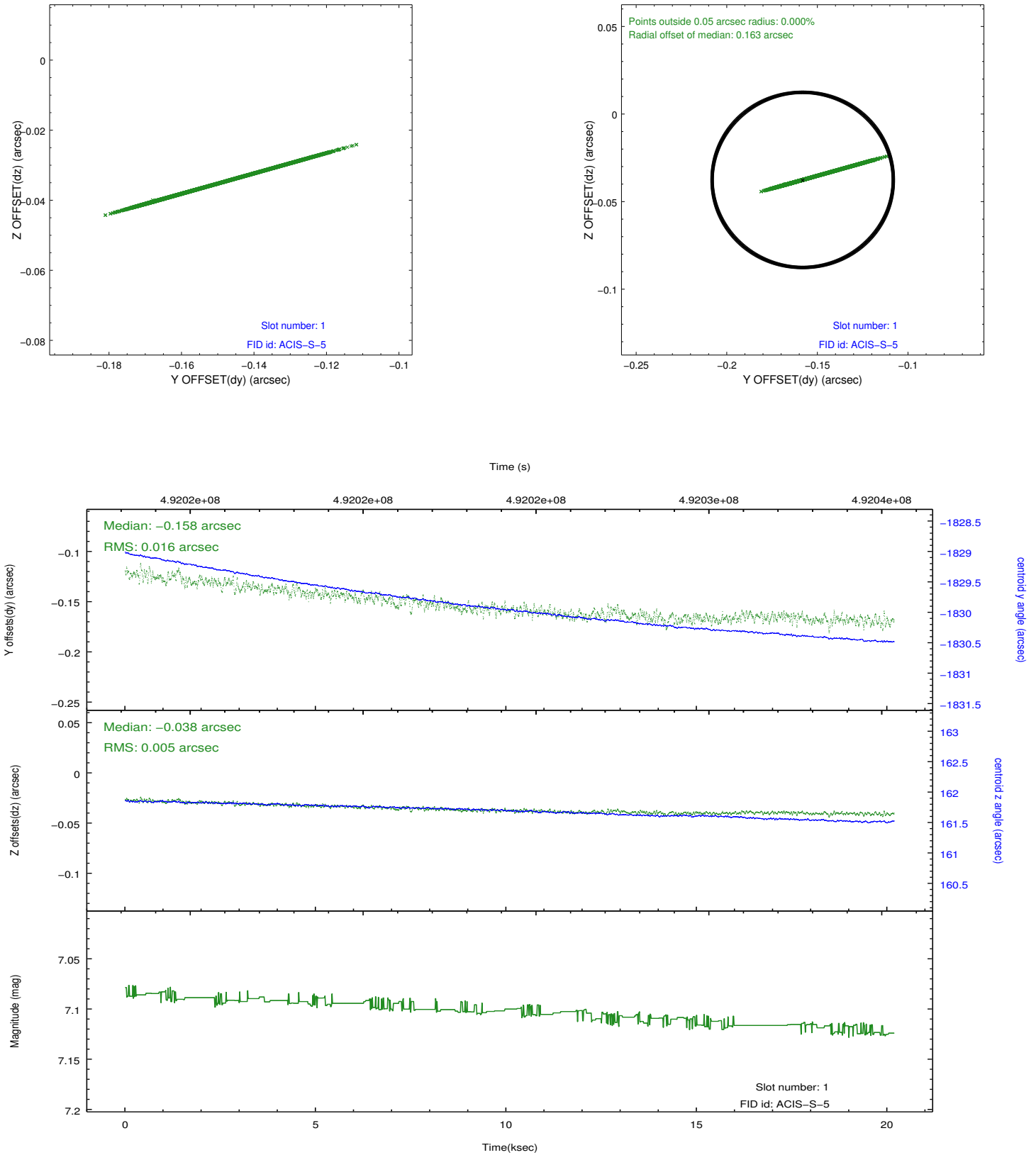


2.4.5 Slot 7

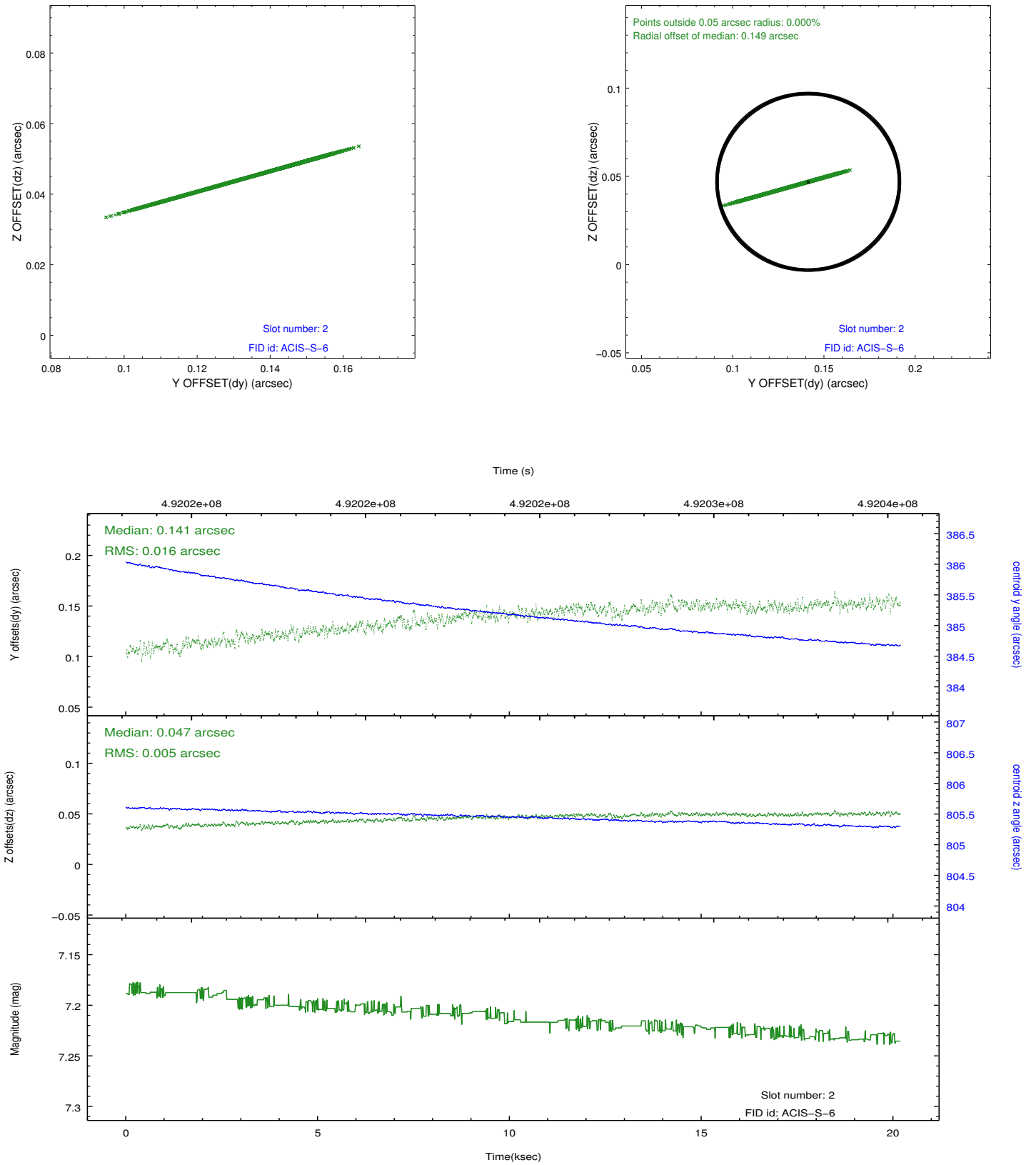


2.5 FID Slots

2.5.1 Slot 1



2.5.2 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2014.12.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	19.967279753208

A.2 Comments

Slot 0 was not utilized in this observation.

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.