

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 12083 - L2 Version 2
Chandra X-Ray Center

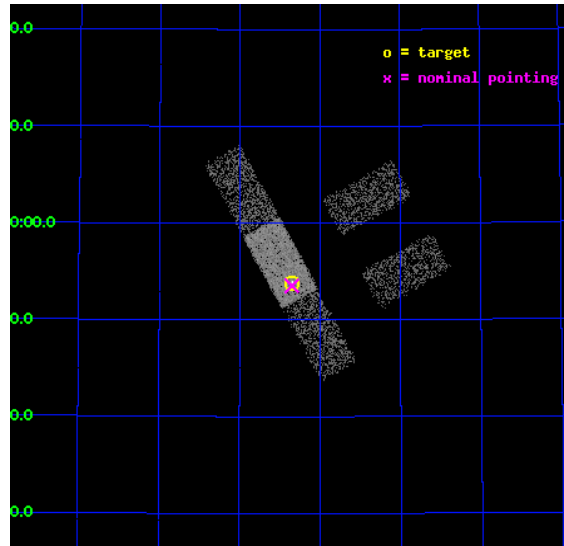
L2 Processing Date : Jun 24 2012

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1 Front

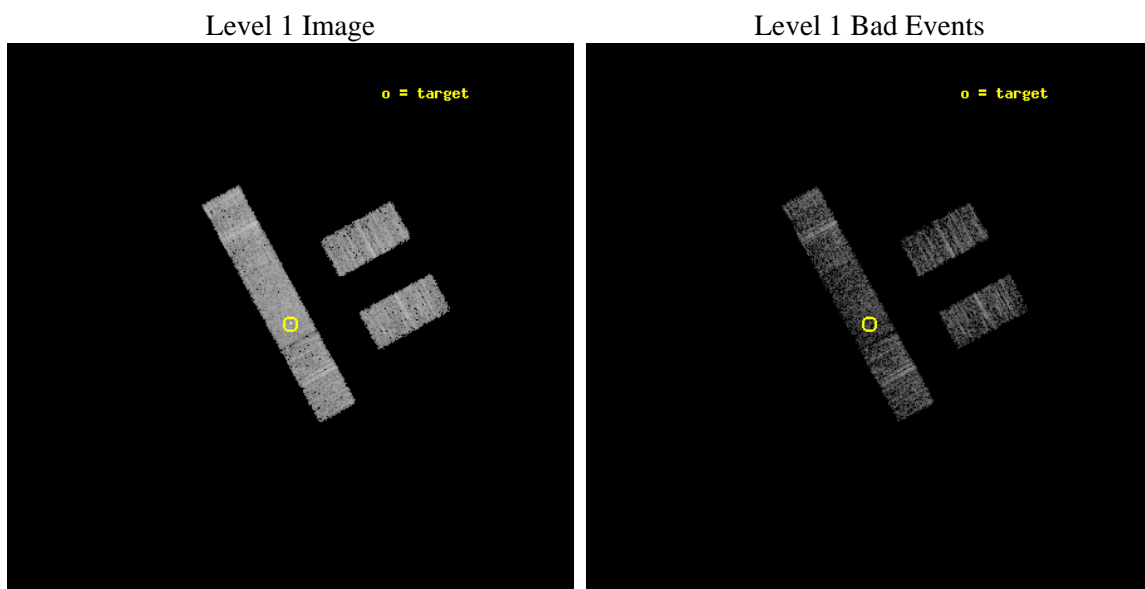
seq_num	702313	Sequence number
obs_id	12083	Observation id
title	Gravitationally lensed quasar Q0957+561AB in outburst	Proposal tit
observer	Dr Luis Goicoechea	Principal investigator
object	Q0957+561	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	150.336667	Observer's specified target RA [deg]
dec_targ	55.897056	Observer's specified target Dec [deg]
ra_nom	150.33725839733	Nominal RA [deg]
dec_nom	55.892015426495	Nominal Dec [deg]
roll_nom	241.30191751872	Nominal Roll [deg]
revision	2	Processing version of data
ontime	3151.7999779582	Sum of GTIs [s]
livetime	3077.5053775496	Livetime [s]
ontime2	3151.7999779582	Sum of GTIs [s]
ontime3	3150.0589378476	Sum of GTIs [s]
ontime6	3151.7999779582	Sum of GTIs [s]
ontime7	3151.7999779582	Sum of GTIs [s]
ontime8	3151.7999779582	Sum of GTIs [s]
l2events	12126	Number of level 2 events



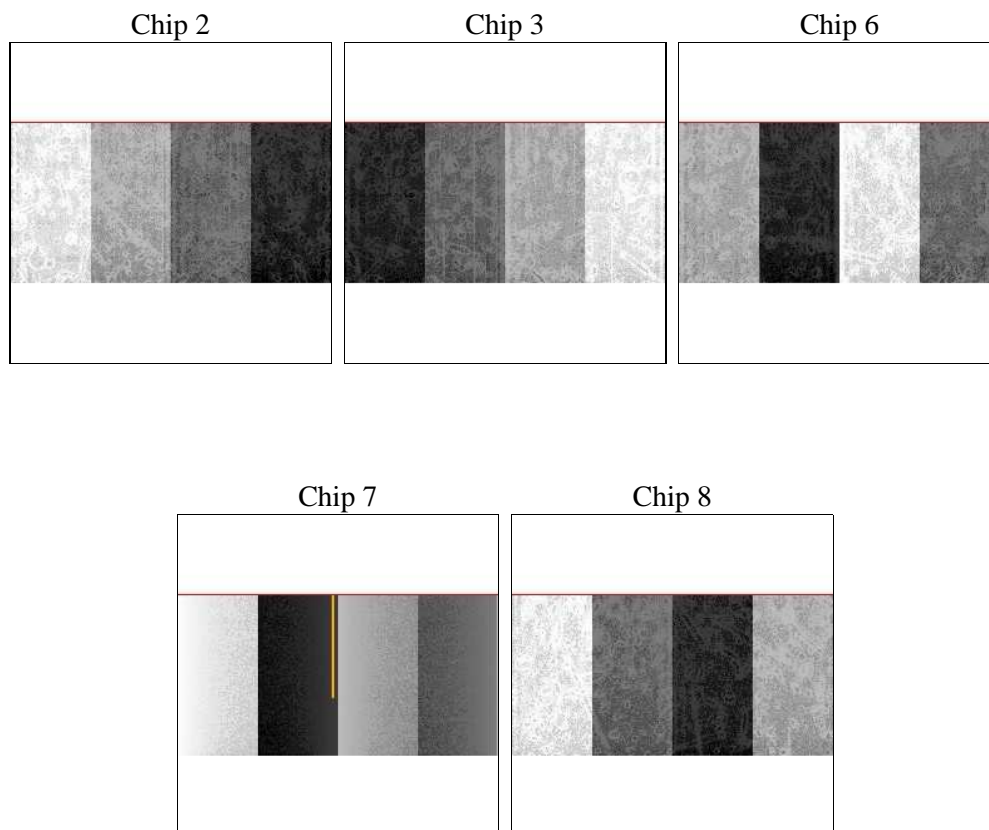
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	3151.7999779582	Sum of GTIs [s]
caldsver	4.4.10	 	ontime2	3151.7999779582	Sum of GTIs [s]
date	2012-06-24T21:40:23	Date and time of file creation	ontime3	3150.0589378476	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	3151.7999779582	Sum of GTIs [s]
			ontime7	3151.7999779582	Sum of GTIs [s]
			ontime8	3151.7999779582	Sum of GTIs [s]
			l1events	82528	Number of level 1 events

2.1.4 Events

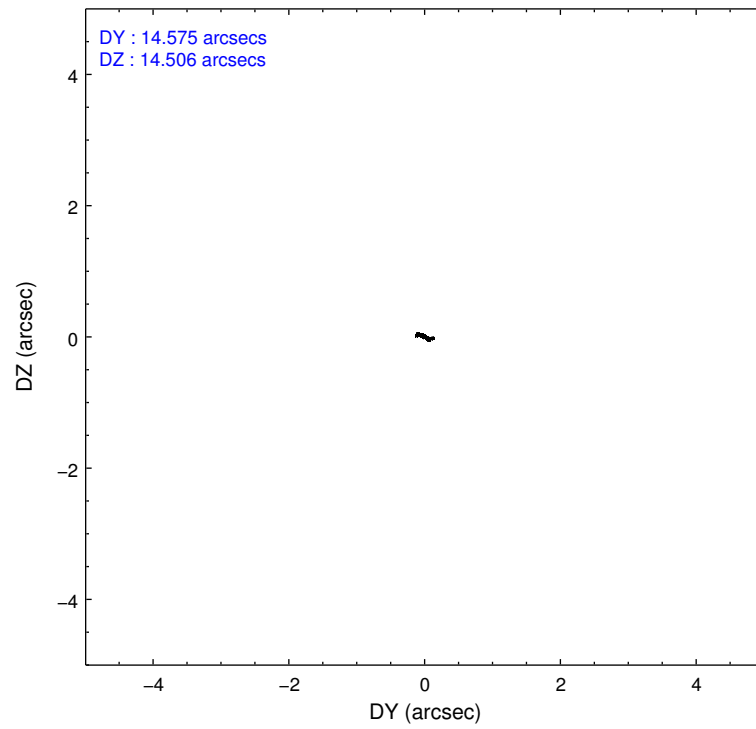
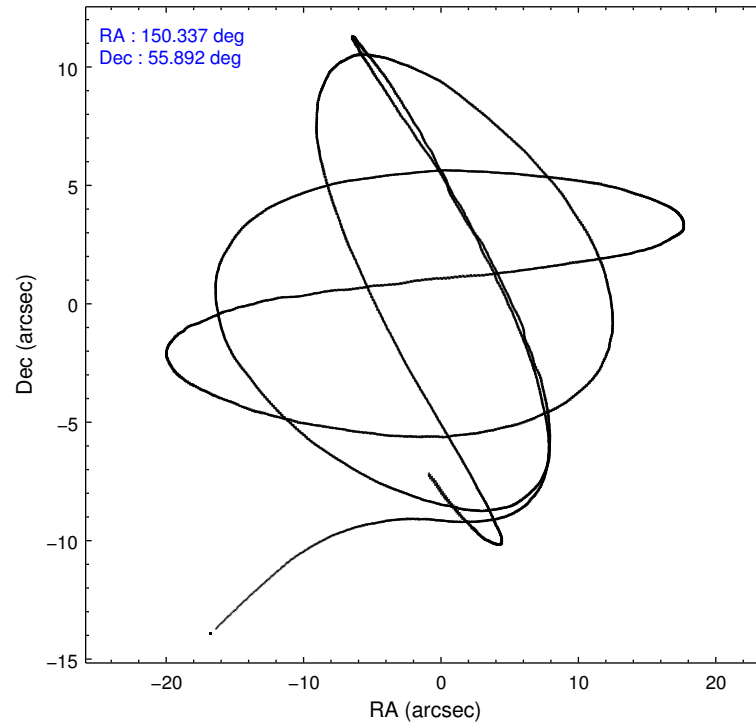
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	14870	14705	15206	18049	19698
rejected events	13532	13443	13702	10599	15196
rejected %	91%	91%	90%	58%	77%

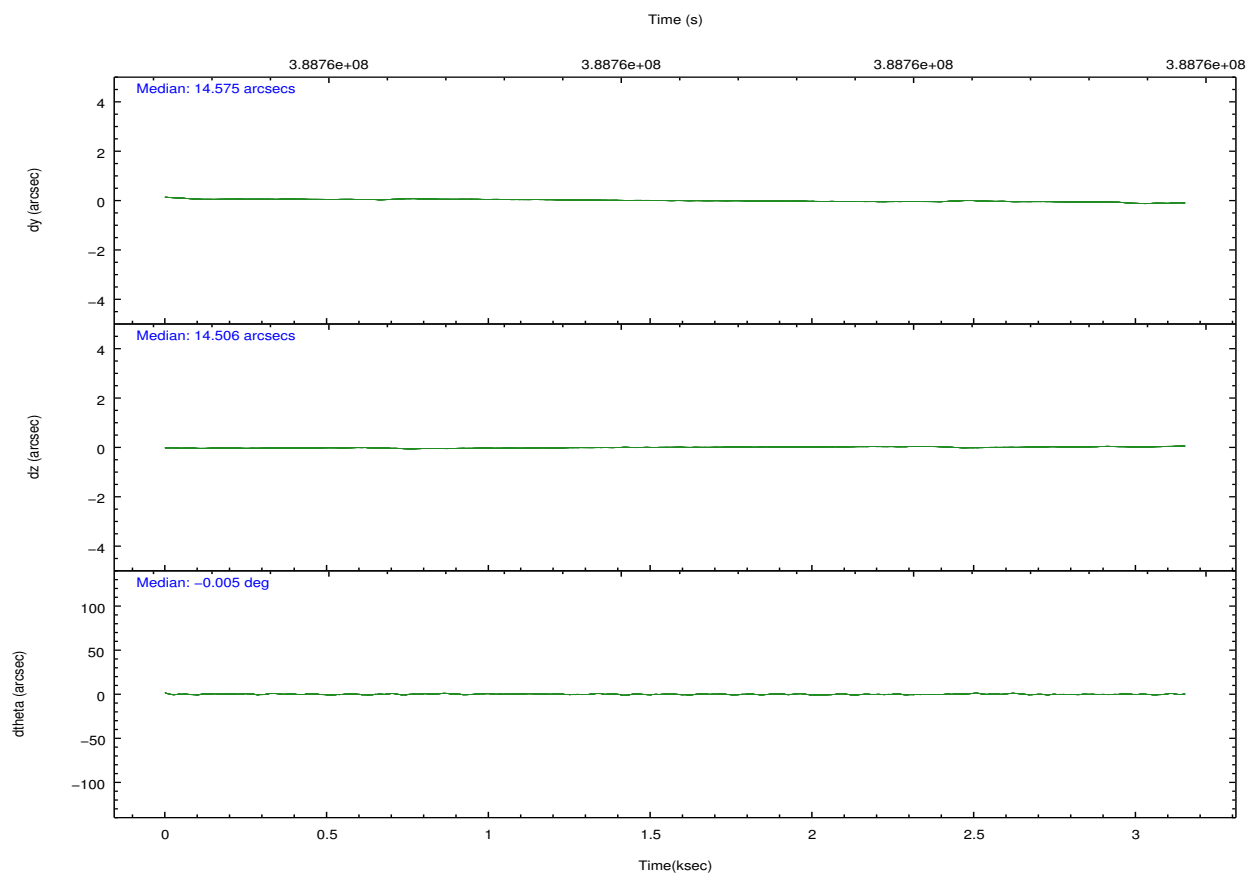
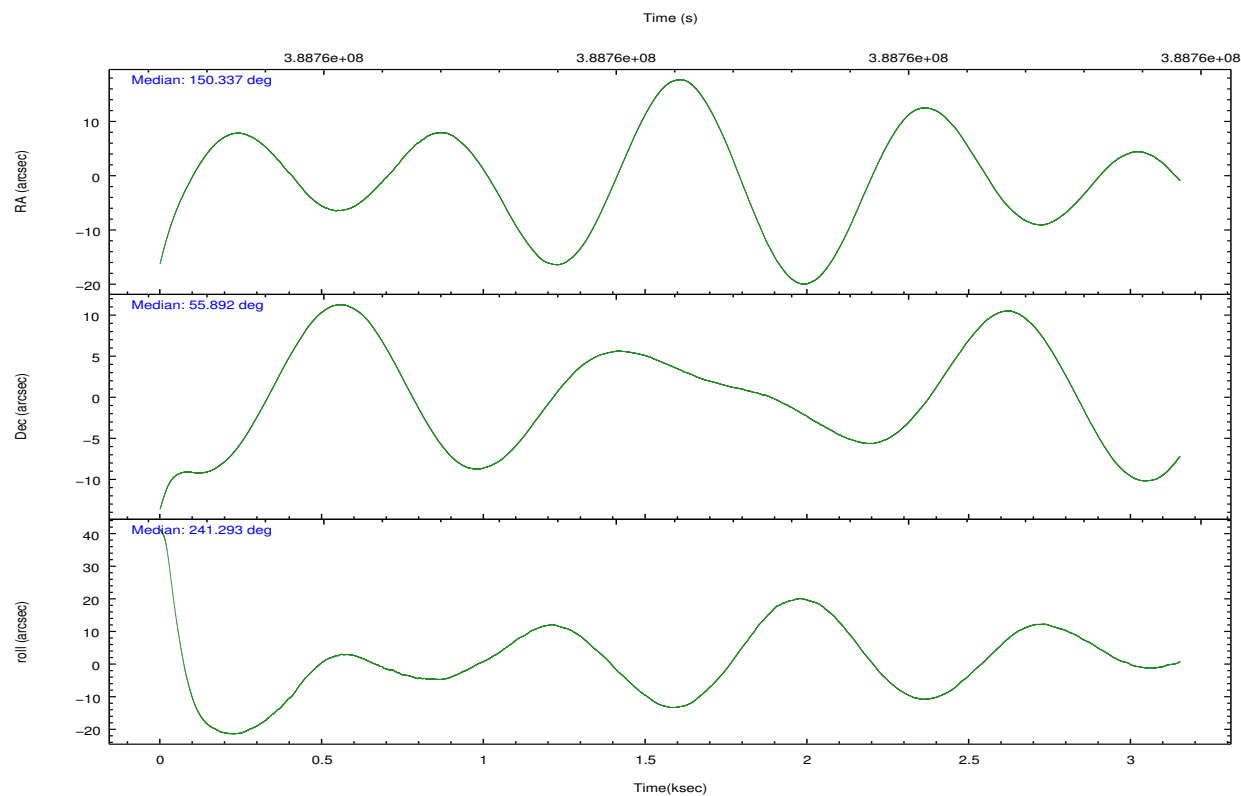
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	539	473	581	1012	1389
	3%	3%	3%	5%	7%
grade 1 events	8	5	9	31	9
	0%	0%	0%	0%	0%
grade 2 events	323	290	350	1771	1244
	2%	1%	2%	9%	6%
grade 3 events	213	200	216	860	528
	1%	1%	1%	4%	2%
grade 4 events	172	197	216	840	485
	1%	1%	1%	4%	2%
grade 5 events	546	612	670	1853	953
	3%	4%	4%	10%	4%
grade 6 events	298	290	350	4109	1411
	2%	1%	2%	22%	7%
grade 7 events	12771	12638	12814	7573	13679
	85%	85%	84%	41%	69%

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	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	150.335333	150.3372583973264	CCD I2 on	O4	Y
[deg] Pointing Dec	55.919537	55.89201542649487	CCD I3 on	O3	Y
[deg] Pointing Roll	241.146689	241.3019175187199	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O1	Y
[mm] SIM translation stage pos	-190.132523	-190.145094680475	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01257209746719923	CCD S4 on	O2	Y
[s] Observation start time (MET)	388761754.184000	388760704.38487	CCD S5 on	N	N
Observation start date	2010-04-27T13:21:28	2010-04-27T13:05:04	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	388764754.184000	388766118.94764	On-chip summing requested	N	N
Observation end date	2010-04-27T14:11:28	2010-04-27T14:35:18	Subarray requested	CUSTOM	1/2
Read mode	TIMED	TIMED	Subarray start row	257	257
			Subarray row count	512	512
			Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	1.7

2.3 Aspect



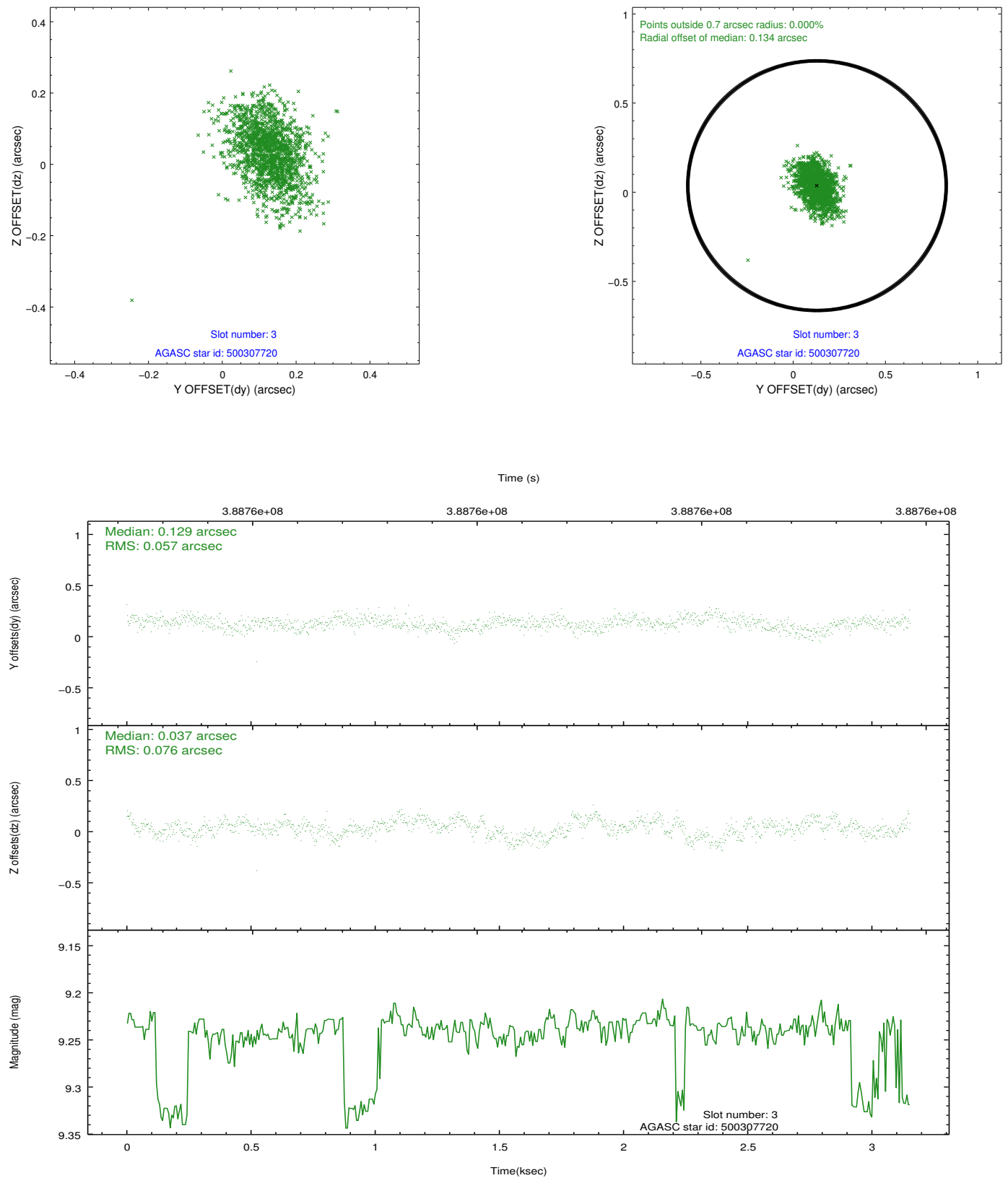


Slot Statistics

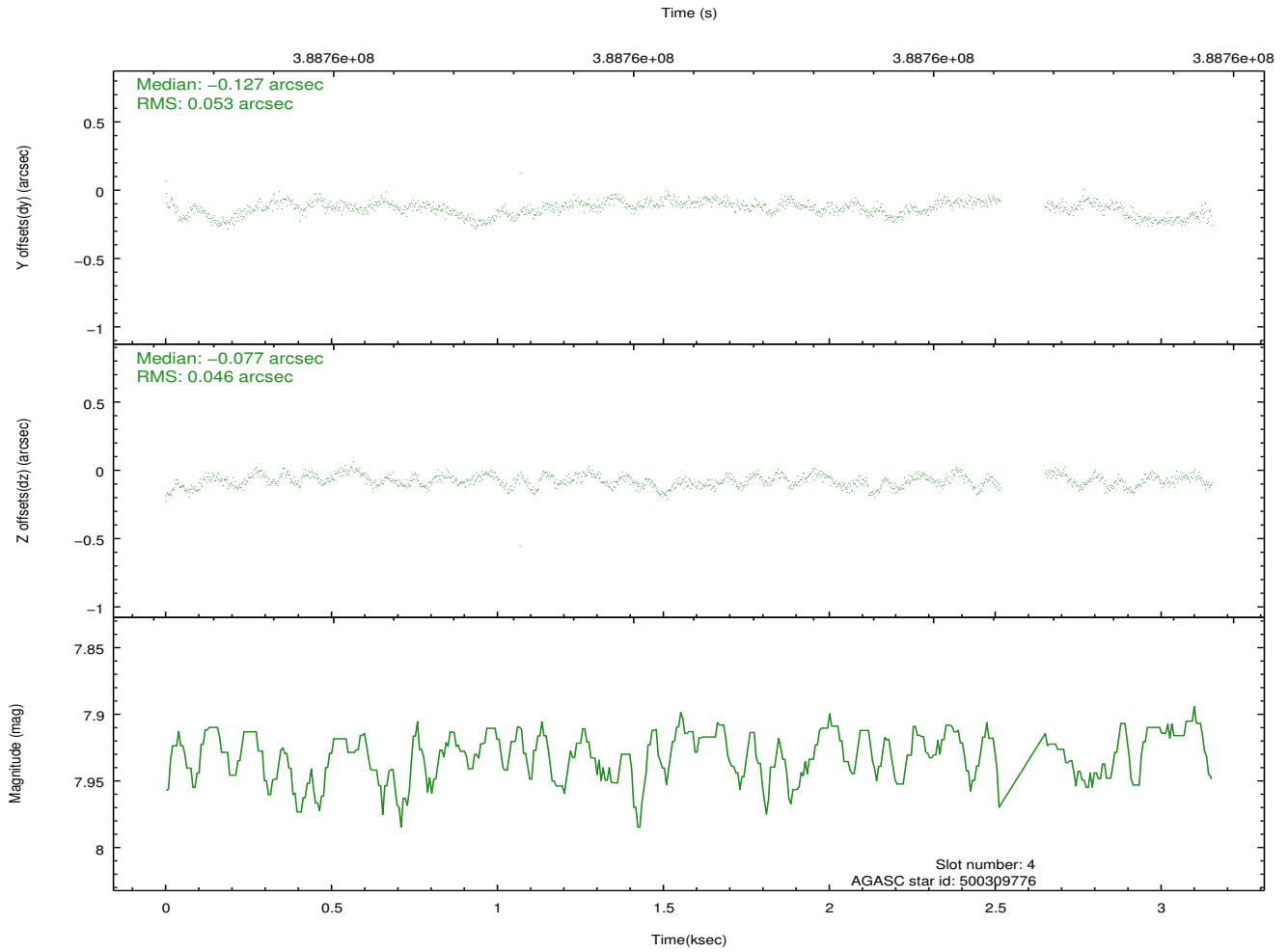
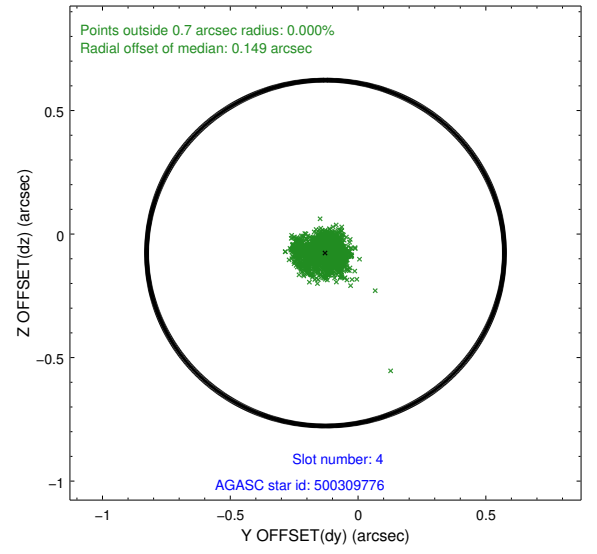
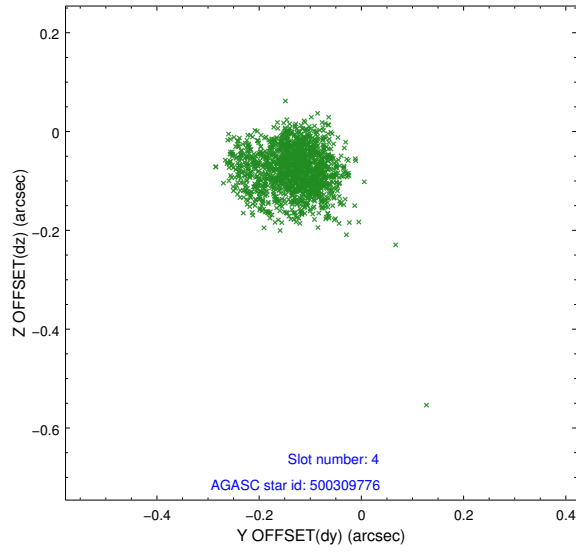
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.02	769	0.024	-0.010	0.007	0.012	0.000000	0.000000	928.52	-1731.41
1	FID	ACIS-S-4	7.03	769	0.169	-0.001	0.006	0.010	0.000000	0.000000	2147.19	170.67
2	FID	ACIS-S-5	7.06	769	-0.219	0.023	0.007	0.013	0.000000	0.000000	-1818.01	166.58
3	GUIDE	500307720	9.24	1529	0.129	0.037	0.098	0.169	149.835368	56.109010	-116.21	-1210.20
4	GUIDE	500309776	7.93	1474	-0.127	-0.077	0.074	0.117	150.409238	55.585087	985.88	712.08
5	GUIDE	500312080	9.62	1538	0.055	0.002	0.129	0.218	150.596161	55.575237	828.88	1062.69
6	GUIDE	500441280	9.45	1538	0.109	-0.082	0.107	0.160	151.172137	55.831559	-547.86	1629.98
7	GUIDE	500437816	8.67	1537	-0.167	0.110	0.072	0.114	151.181905	56.134575	-1507.44	1109.45

2.4 Star Slots

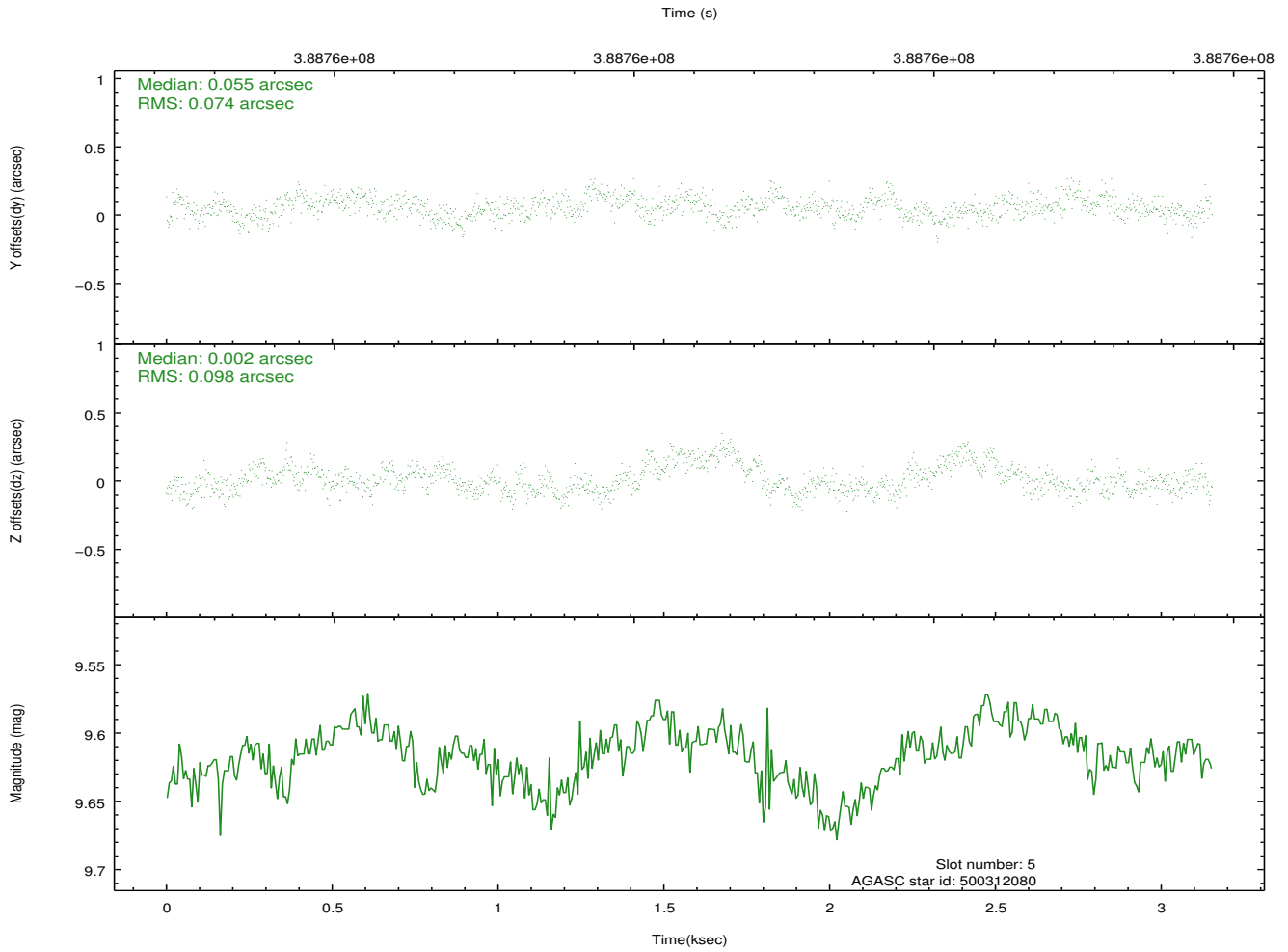
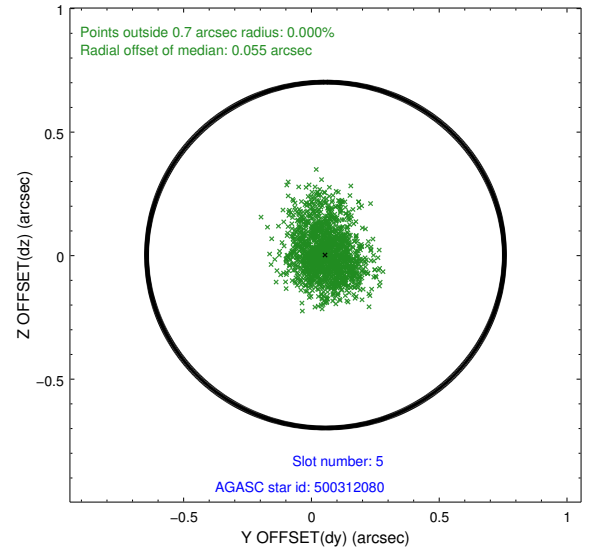
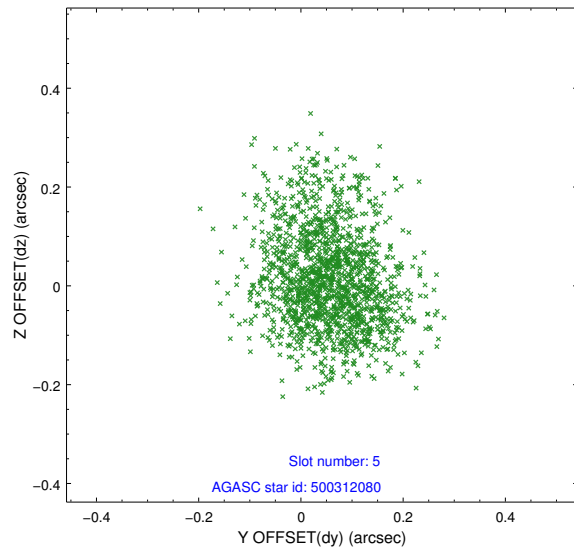
2.4.1 Slot 3



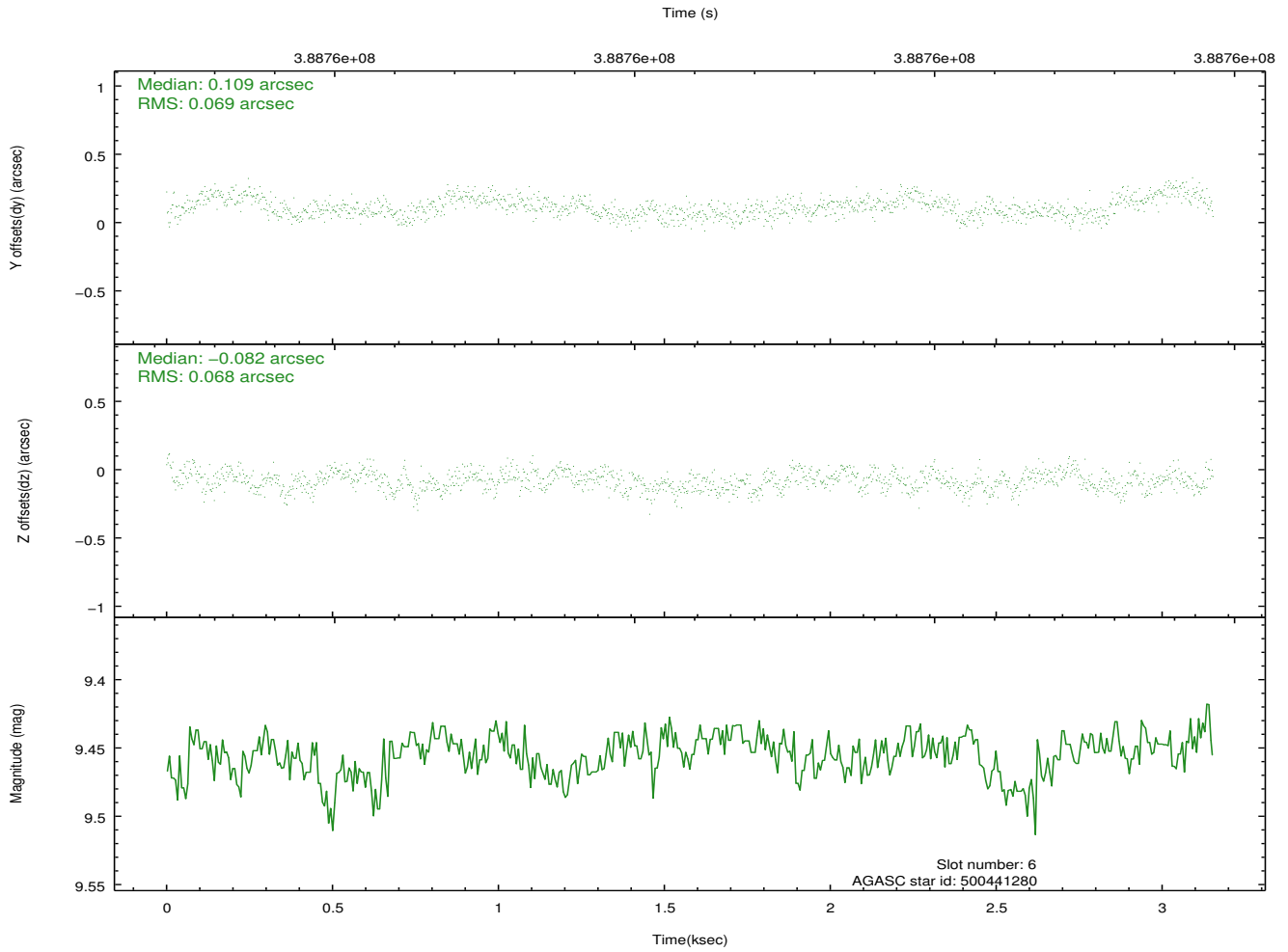
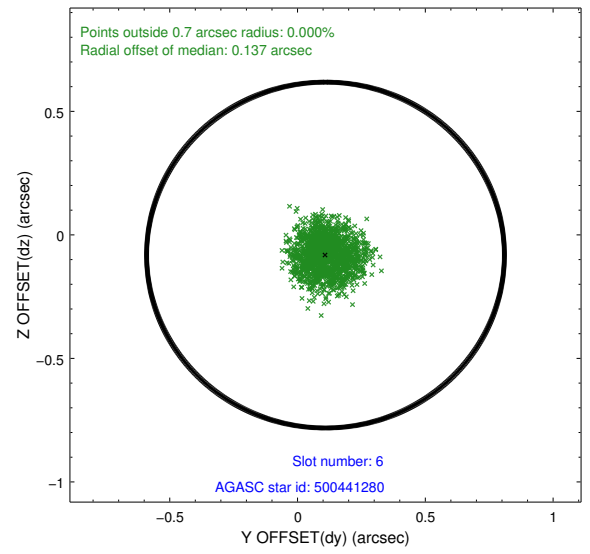
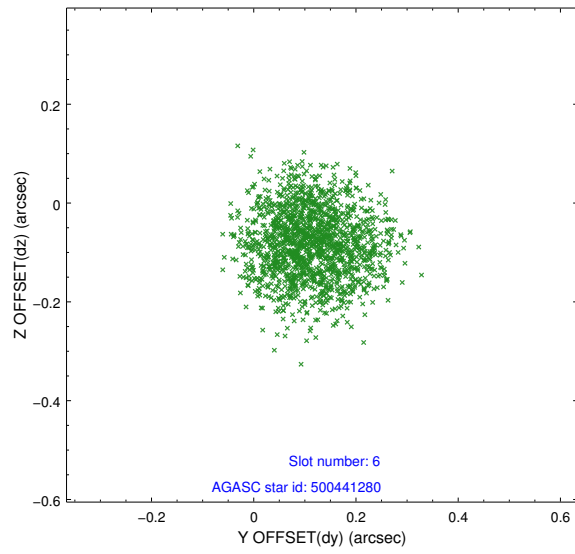
2.4.2 Slot 4



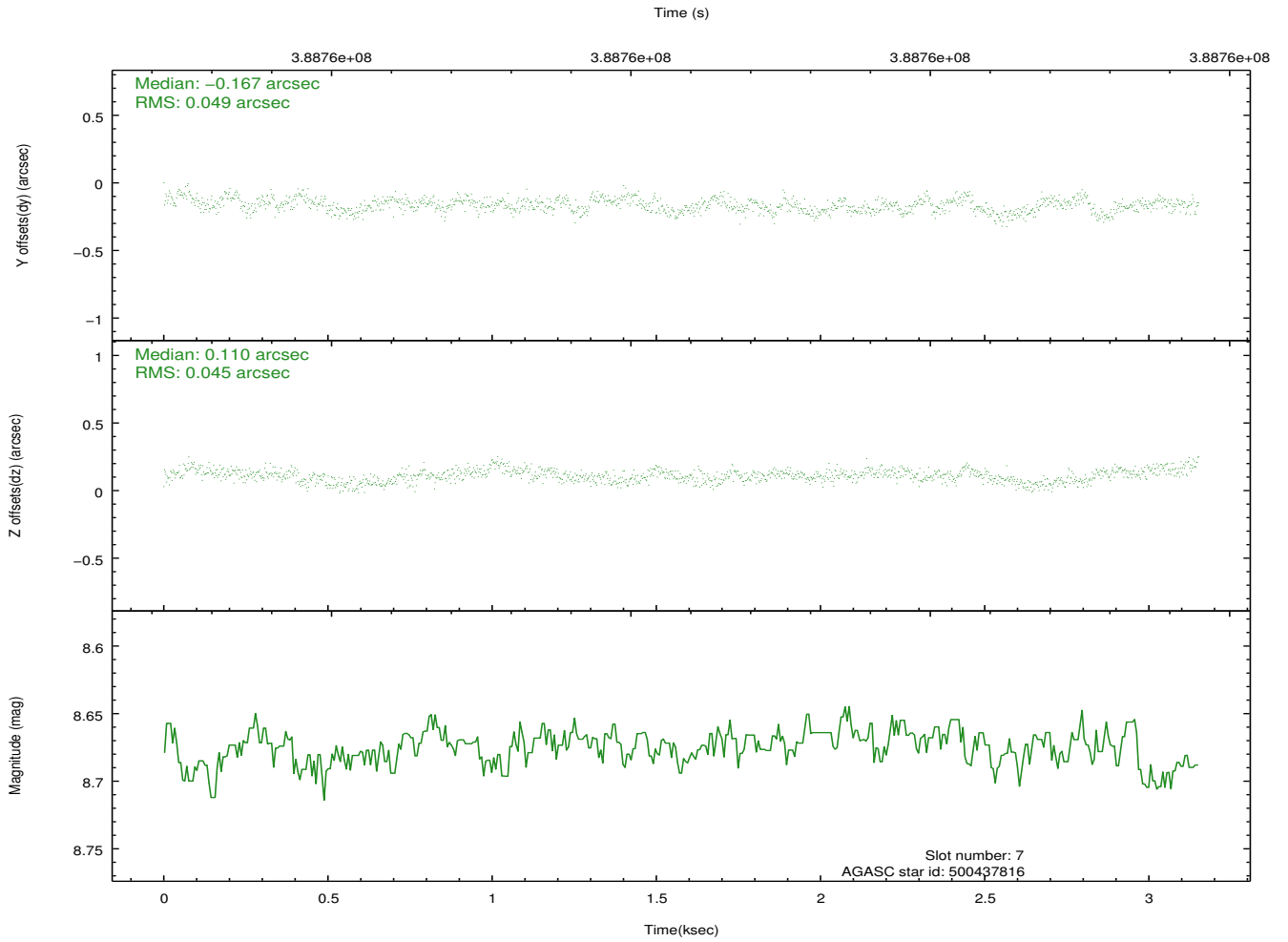
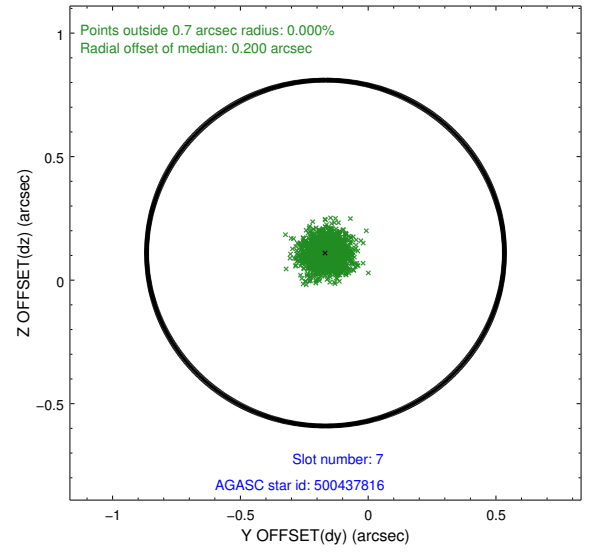
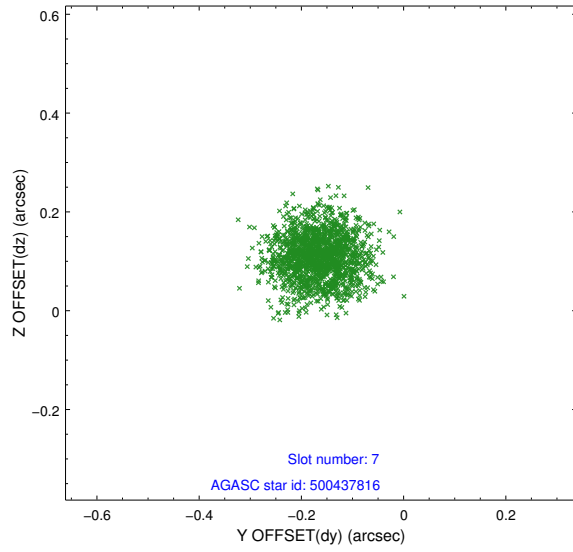
2.4.3 Slot 5



2.4.4 Slot 6

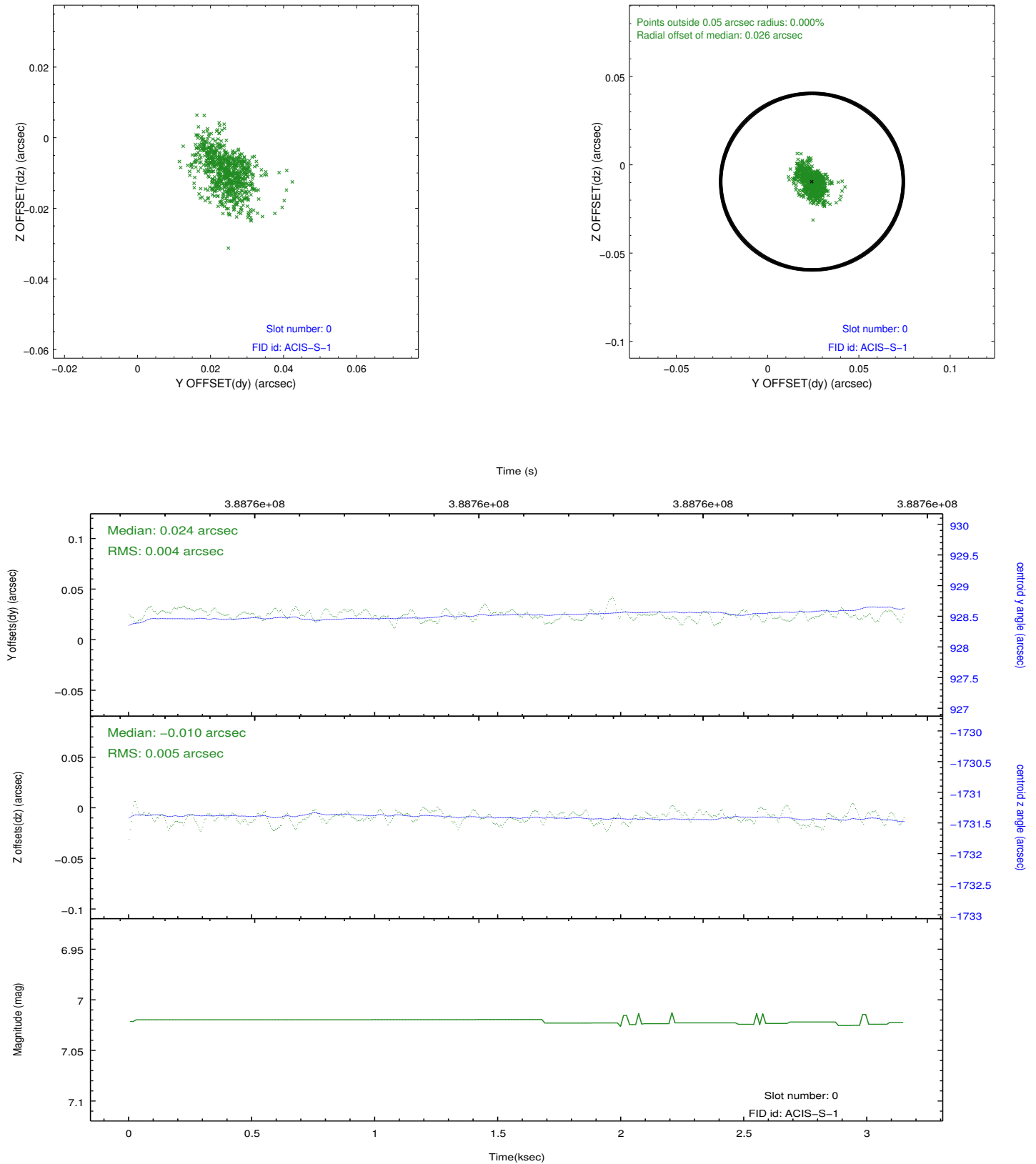


2.4.5 Slot 7

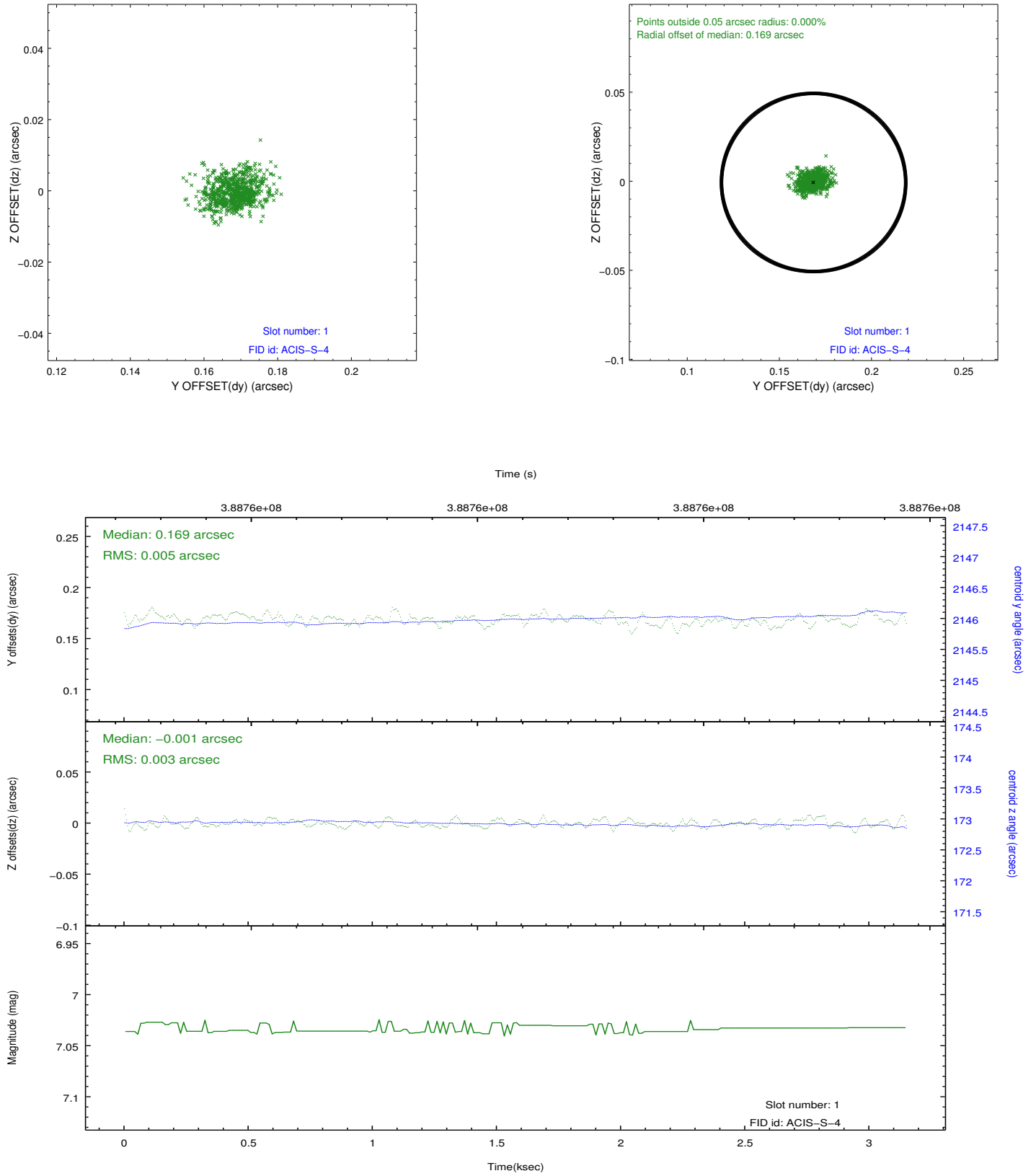


2.5 FID Slots

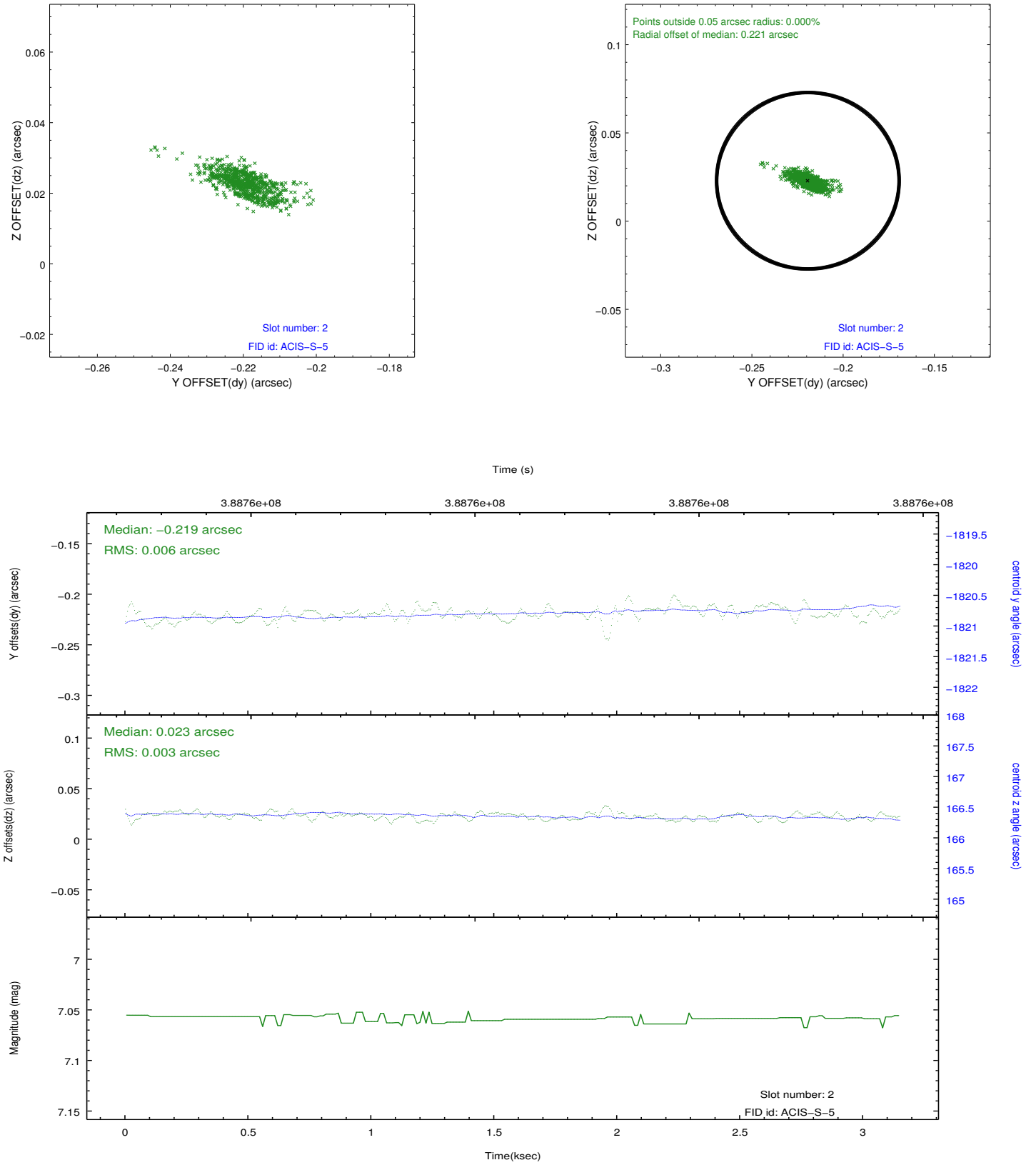
2.5.1 Slot 0



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)	2012.07.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.1517999779582

A.2 Comments