

V&V Reference Report

L2 ASCDS Version : 10

Observation 15005 - L2 Version 2
Chandra X-Ray Center

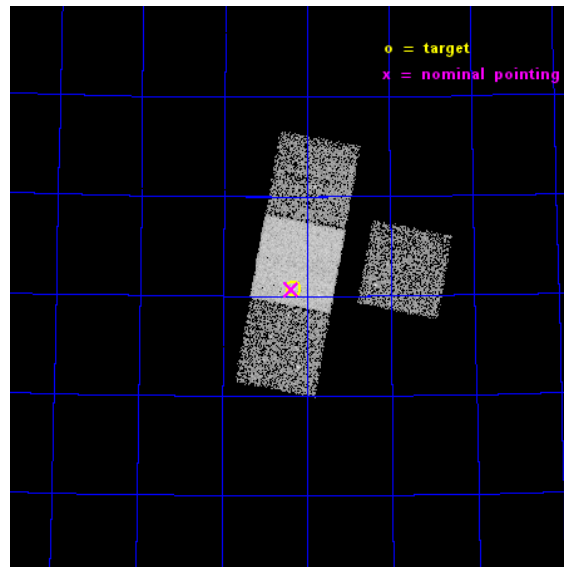
L2 Processing Date : Dec 4 2014

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

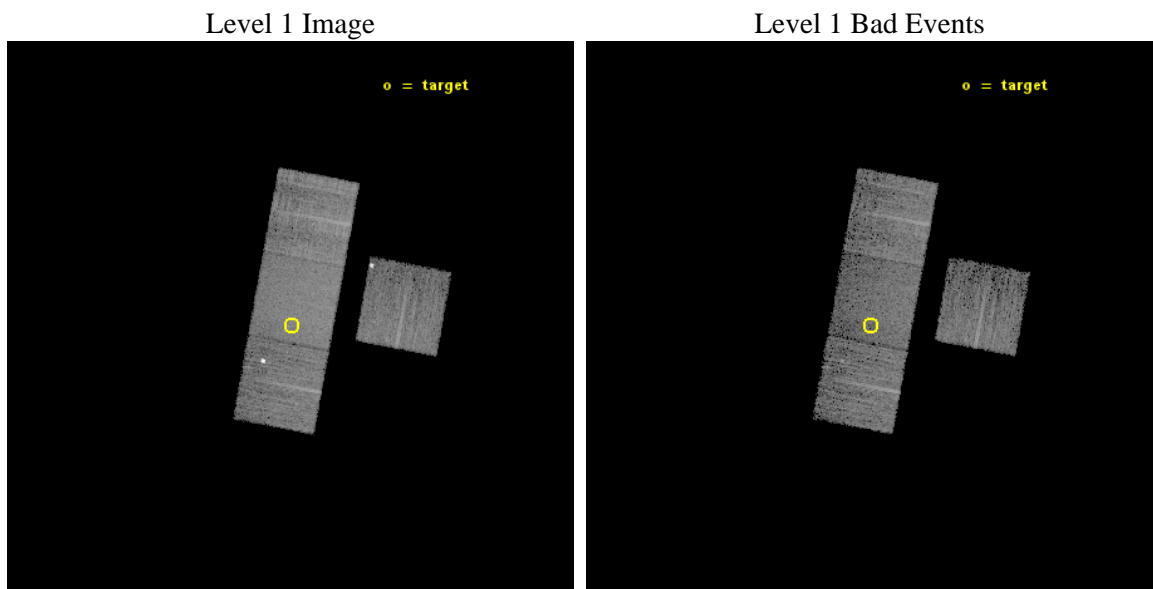
seq_num	702813	Sequence number
obs_id	15005	Observation id
title	The Herschel Legacy of powerful 3C radio galaxies and quasars II: observing Proposal.	Proposal title
observer	Dr Joanna Kuraszkiewicz	Principal investigator
object	3C268.1	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	180.084167	Observer's specified target RA [deg]
dec_targ	73.012639	Observer's specified target Dec [deg]
ra_nom	180.09359745815	Nominal RA [deg]
dec_nom	73.011522266306	Nominal Dec [deg]
roll_nom	280.66690515298	Nominal Roll [deg]
revision	2	Processing version of data
ontime	10074.083082199	Sum of GTIs [s]
livetime	9942.4577702981	Livetime [s]
ontime3	10074.001002192	Sum of GTIs [s]
ontime6	10074.042042196	Sum of GTIs [s]
ontime7	10074.083082199	Sum of GTIs [s]
ontime8	10073.959962189	Sum of GTIs [s]
l2events	43358	Number of level 2 events



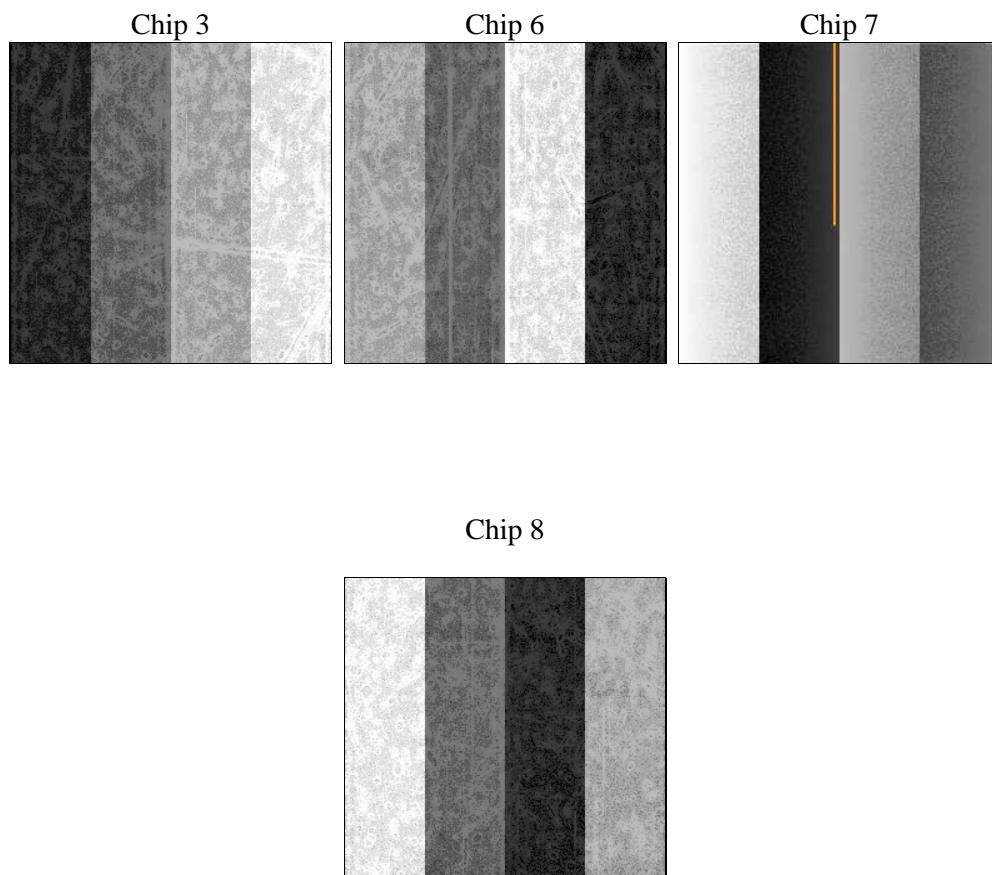
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	10074.083082199	Sum of GTIs [s]
caldsver	4.6.4	 	ontime3	10074.001002192	Sum of GTIs [s]
date	2014-12-04T09:51:16	Date and time of file creation	ontime6	10074.042042196	Sum of GTIs [s]
revision	2	Processing version of data	ontime7	10074.083082199	Sum of GTIs [s]
			ontime8	10073.959962189	Sum of GTIs [s]
			l1events	235477	Number of level 1 events

2.1.4 Events

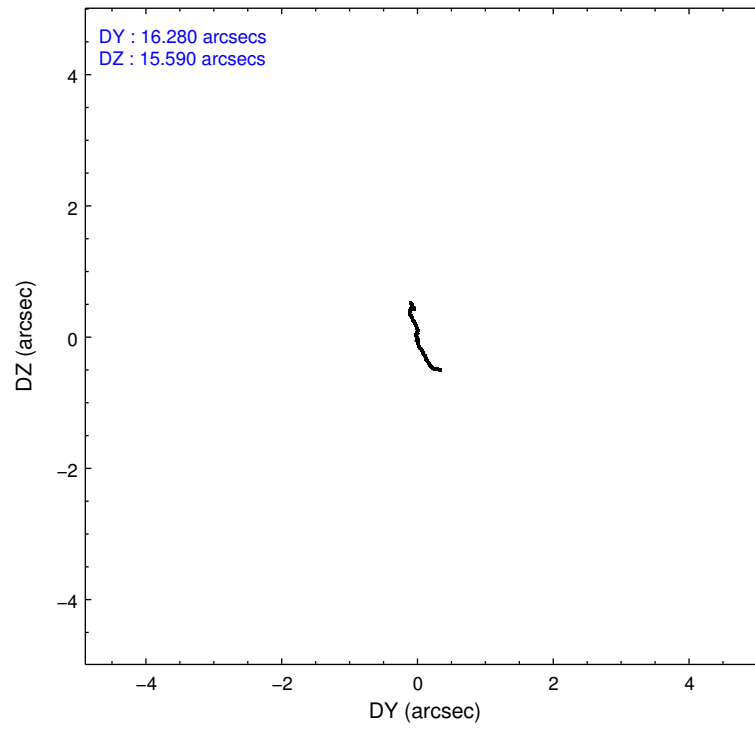
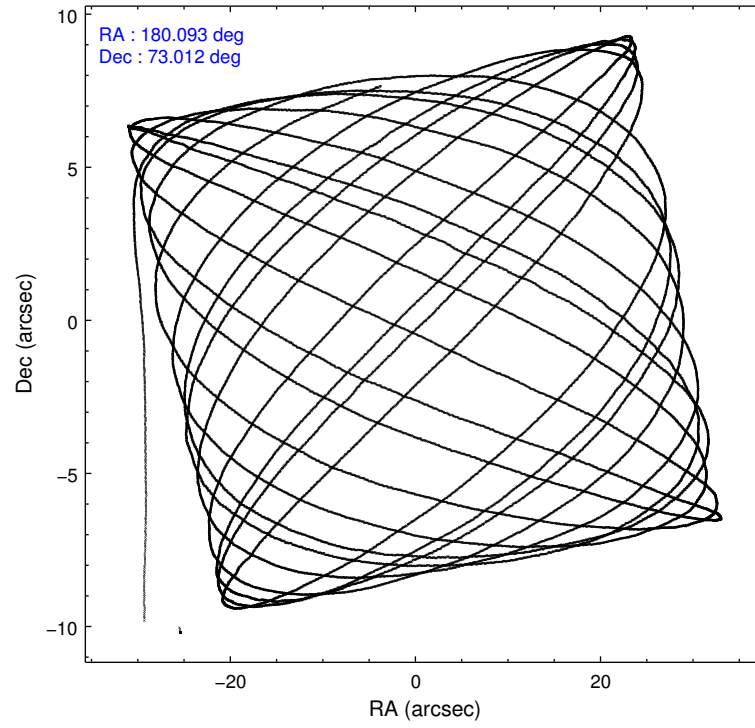
	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	49020	56728	65192	64537
rejected events	40688	43724	37022	47974
rejected %	83%	77%	56%	74%

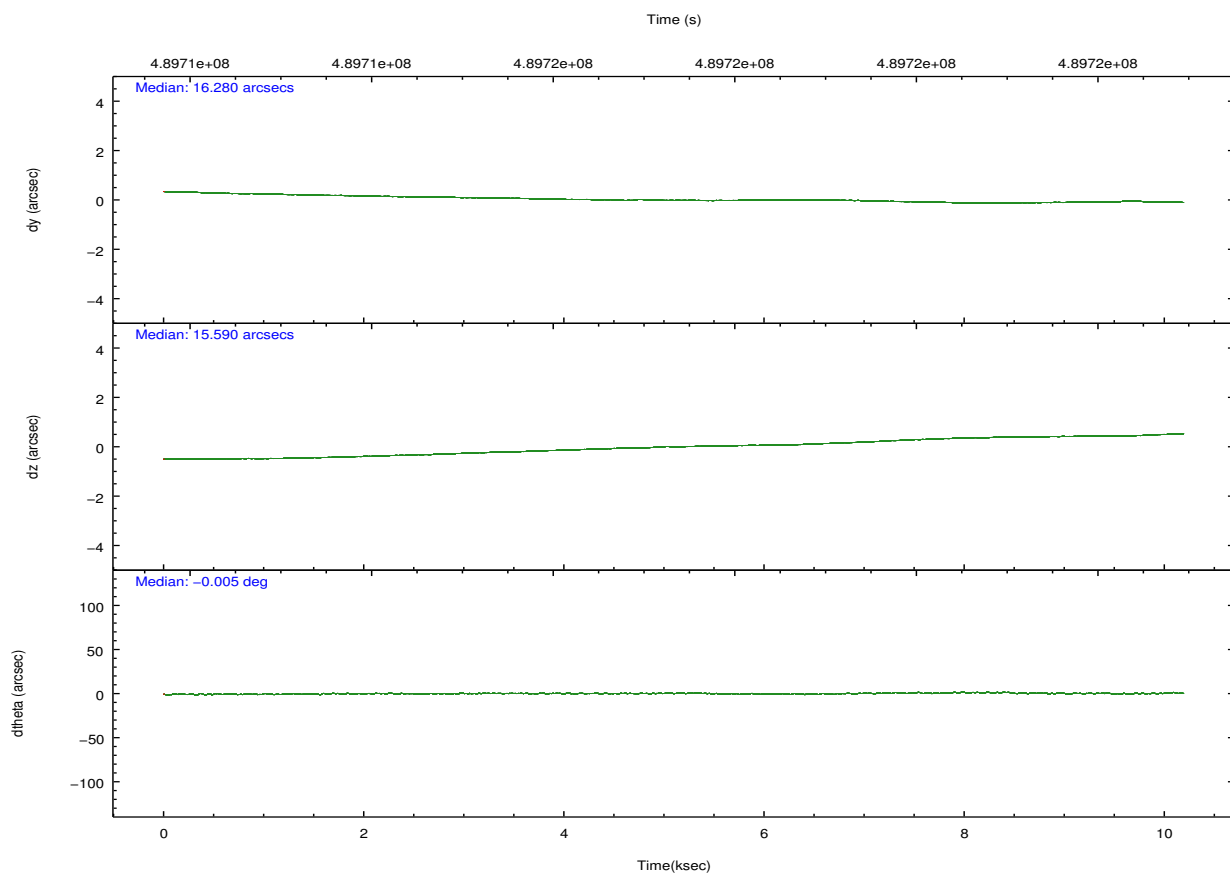
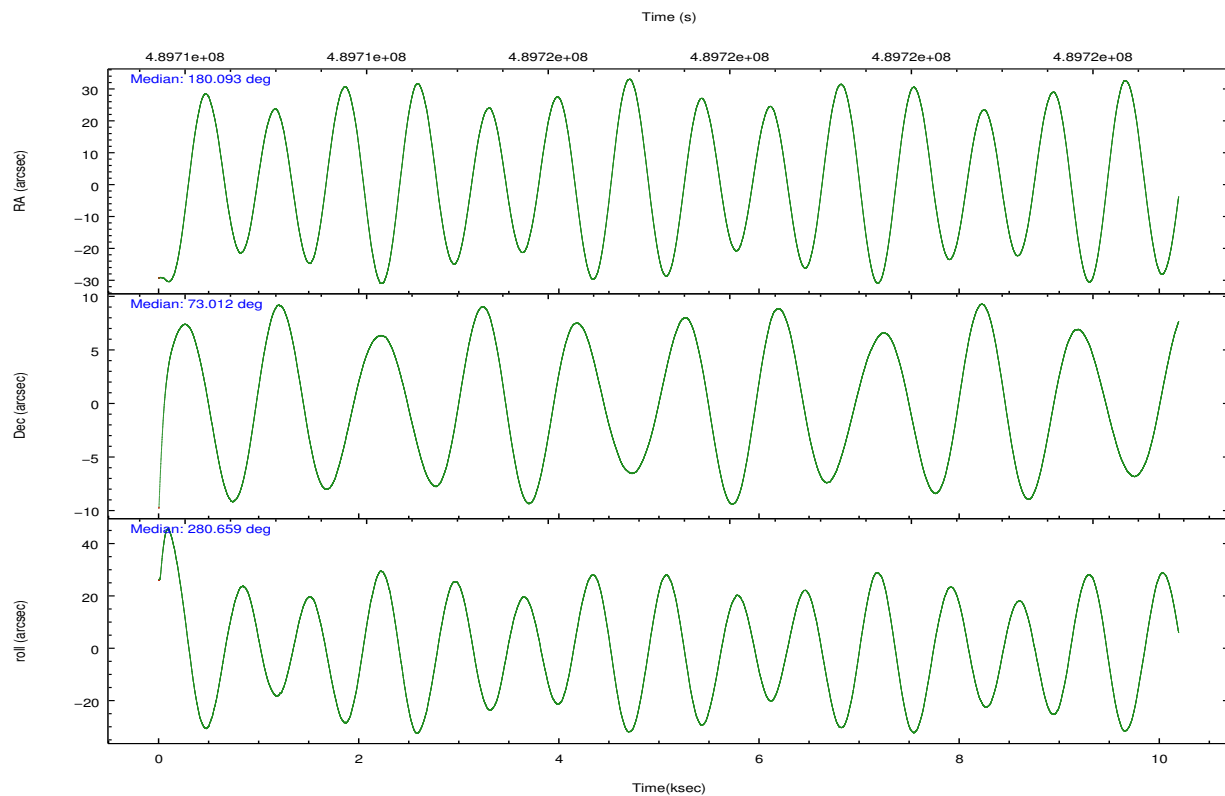
	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	4922	2390	2511	4482
	10%	4%	3%	6%
grade 1 events	30	29	74	43
	0%	0%	0%	0%
grade 2 events	1170	7985	5732	4028
	2%	14%	8%	6%
grade 3 events	569	572	2293	1716
	1%	1%	3%	2%
grade 4 events	540	578	2247	1660
	1%	1%	3%	2%
grade 5 events	2559	2474	6595	3647
	5%	4%	10%	5%
grade 6 events	1137	1488	15400	4683
	2%	2%	23%	7%
grade 7 events	38093	41212	30340	44278
	77%	72%	46%	68%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-3678	ACIS-3678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	180.031763	180.0935974581453	CCD I2 on	N	N
[deg] Pointing Dec	73.032015	73.011522266306	CCD I3 on	O1	Y
[deg] Pointing Roll	280.569454	280.6669051529761	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	O3	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	O2	Y
[s] Observation start time (MET)	489712418.184000	489711248.38749	CCD S5 on	N	N
Observation start date	2013-07-08T23:12:31	2013-07-08T22:54:08	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	489722418.184000	489723915.33818	On-chip summing requested	N	N
Observation end date	2013-07-09T01:59:11	2013-07-09T02:25:15	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



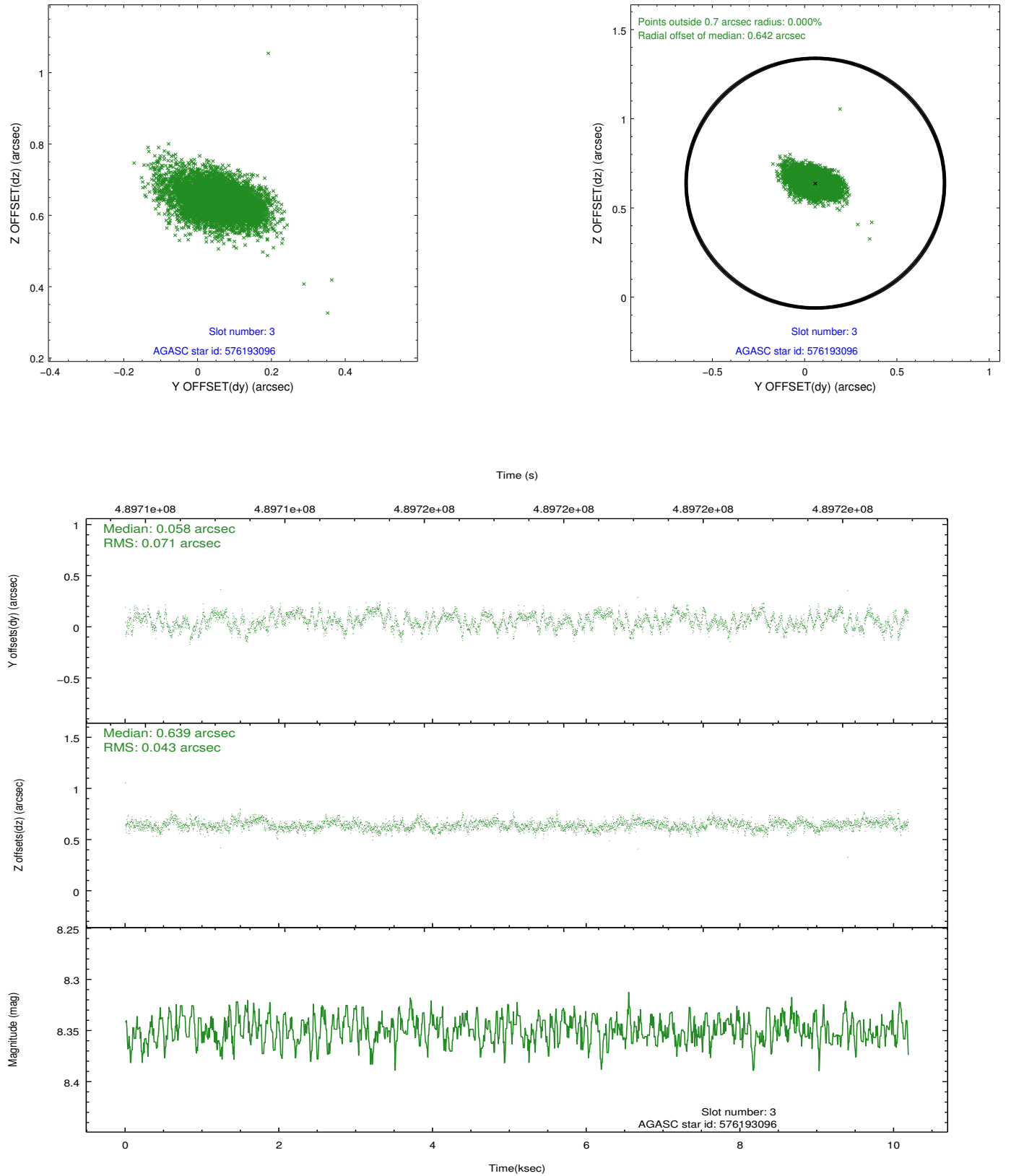


Slot Statistics

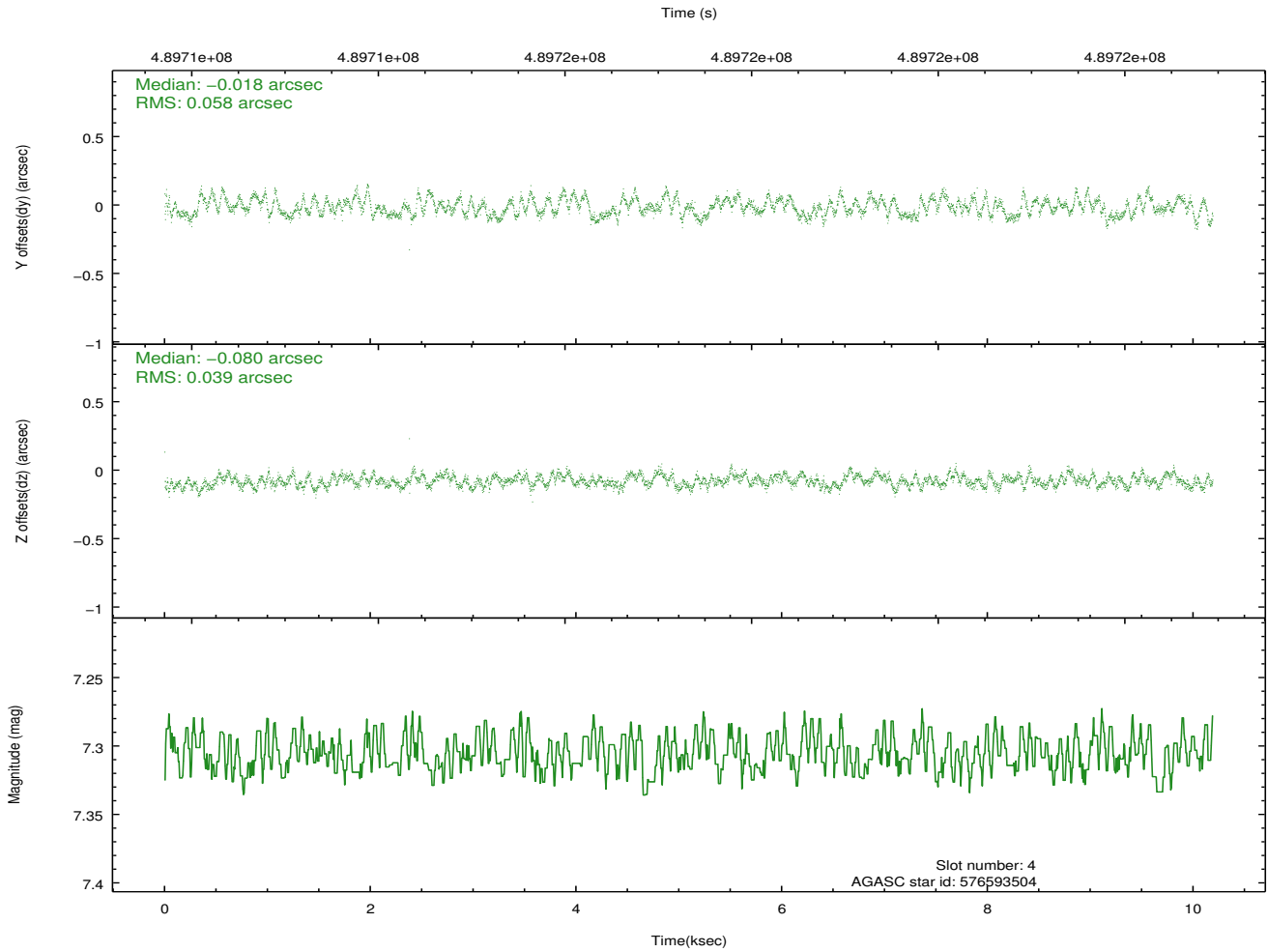
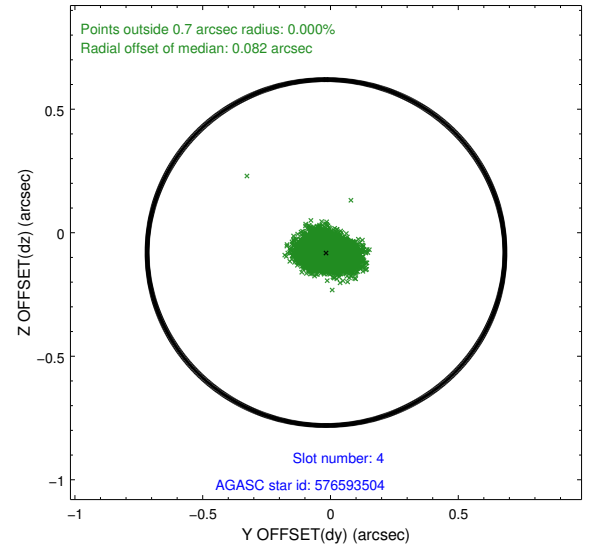
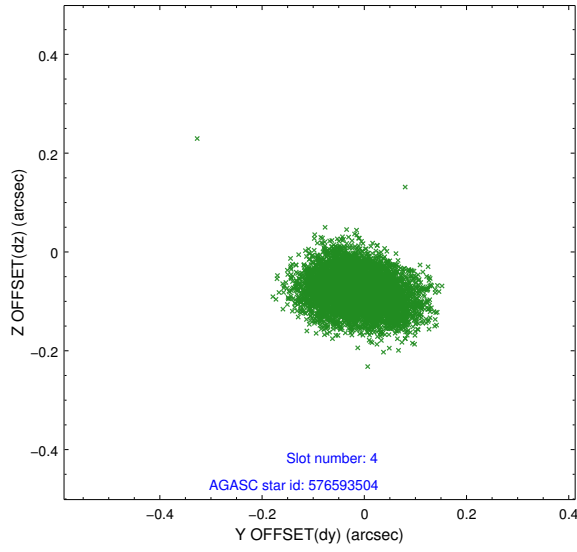
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.06	2486	-0.126	-0.021	0.009	0.017	0.000000	0.000000	-769.43	-1736.94
1	FID		ACIS-S-4	7.14	2486	0.249	0.066	0.008	0.014	0.000000	0.000000	2143.97	171.11
2	FID		ACIS-S-5	7.17	2486	-0.154	-0.037	0.008	0.013	0.000000	0.000000	-1821.66	165.24
3	GUIDE	used	576193096	8.35	4968	0.058	0.639	0.086	0.144	178.787538	72.388990	2013.91	-1752.83
4	GUIDE	used	576593504	7.31	4972	-0.018	-0.080	0.075	0.117	181.301062	73.454546	-1270.17	1560.03
5	GUIDE	used	576593608	8.68	4969	-0.205	0.280	0.081	0.129	178.117184	73.348898	-1514.59	-1725.33
6	GUIDE	used	576593656	8.83	4967	0.217	-0.294	0.084	0.142	181.804666	73.328581	-740.47	1999.62
7	GUIDE	used	576595136	9.09	4928	-0.054	-0.549	0.101	0.158	181.848495	72.804043	1132.44	1755.81

2.4 Star Slots

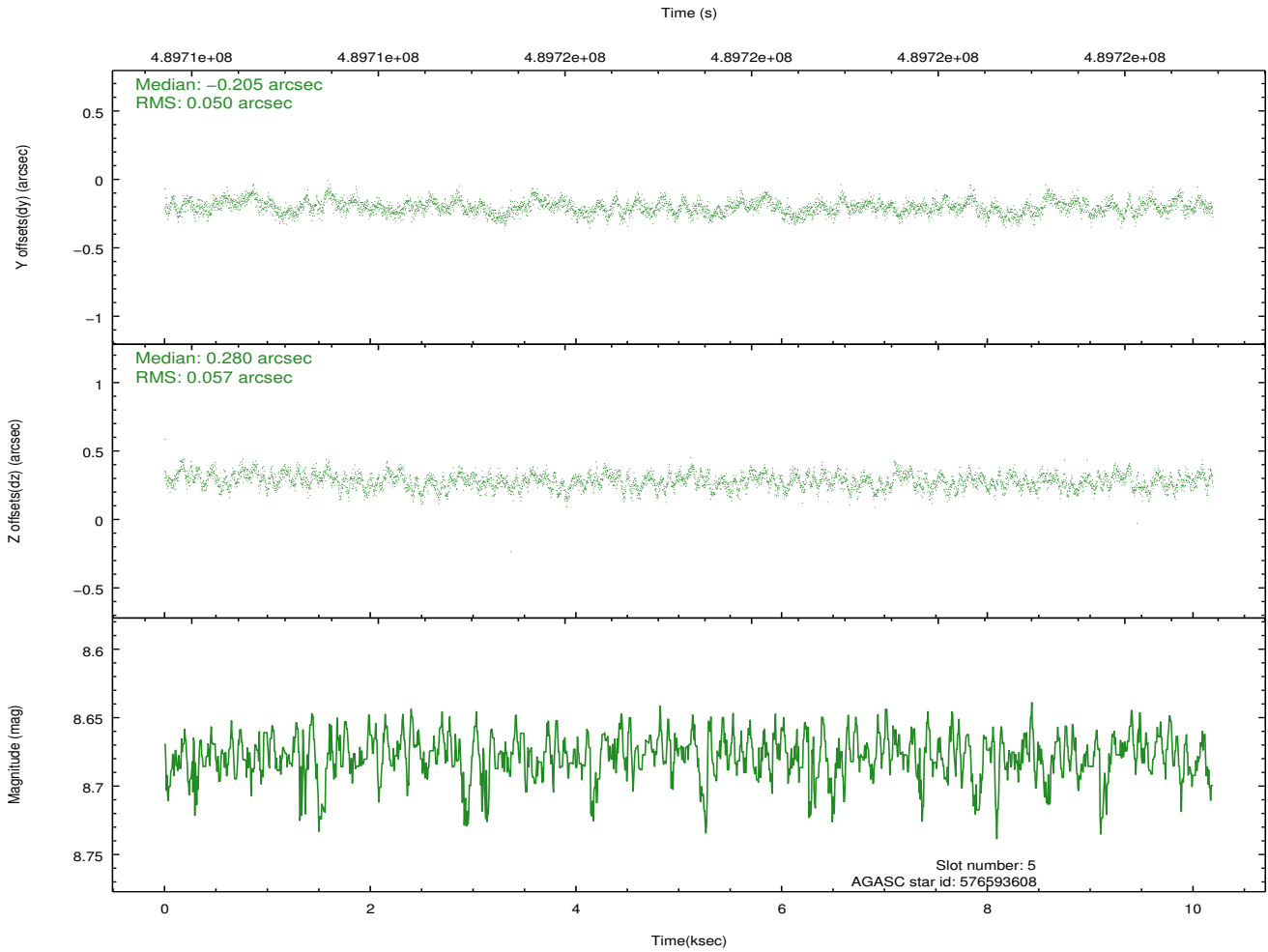
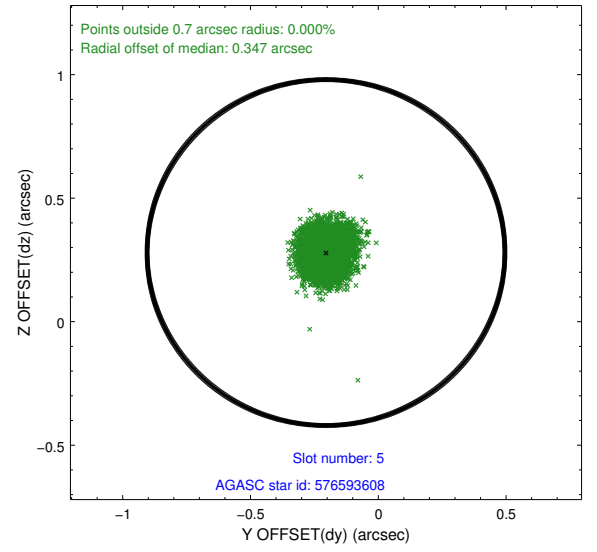
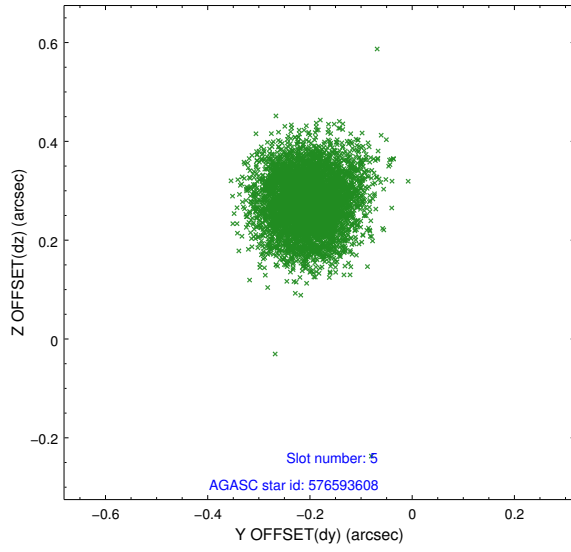
2.4.1 Slot 3



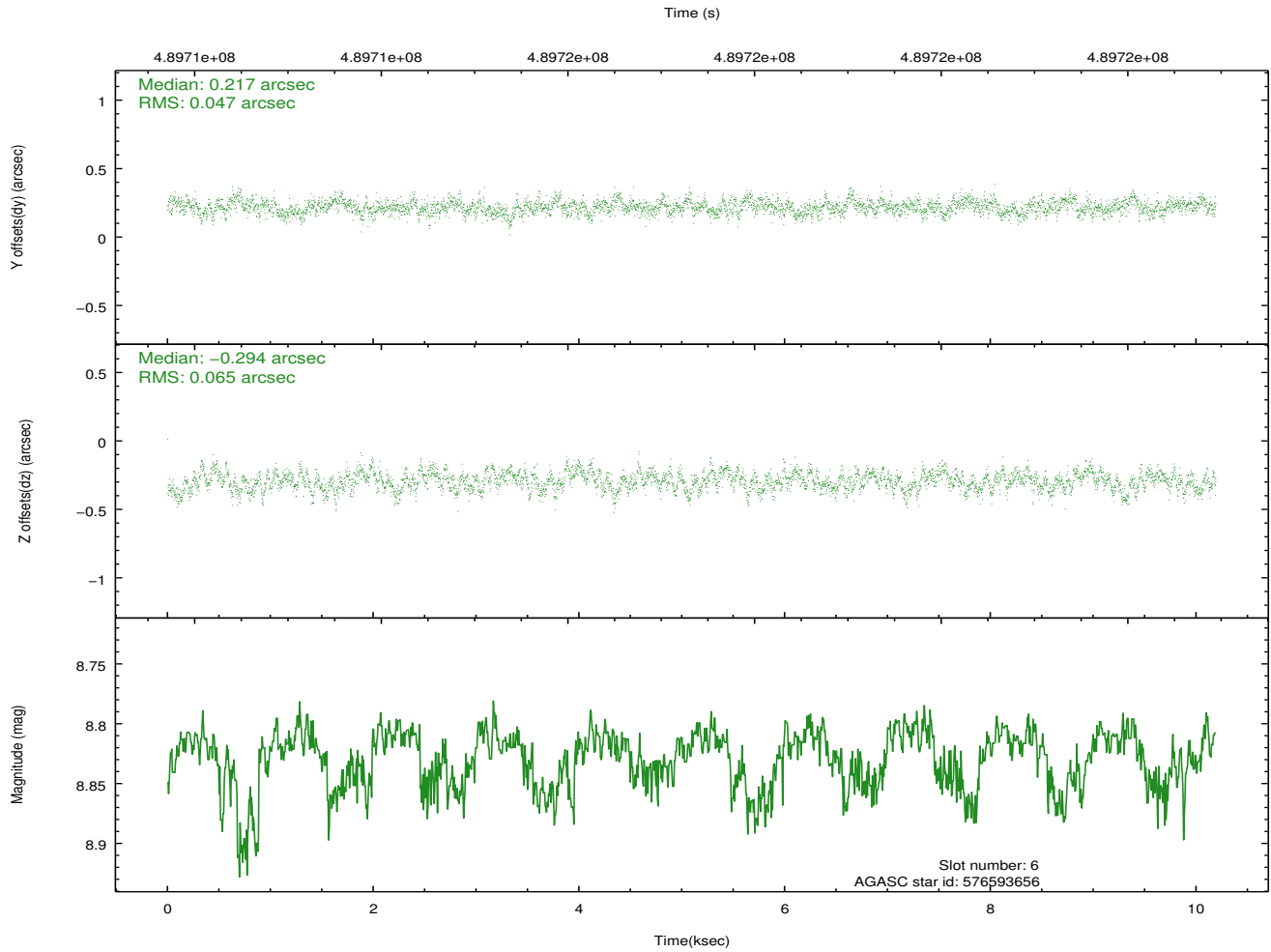
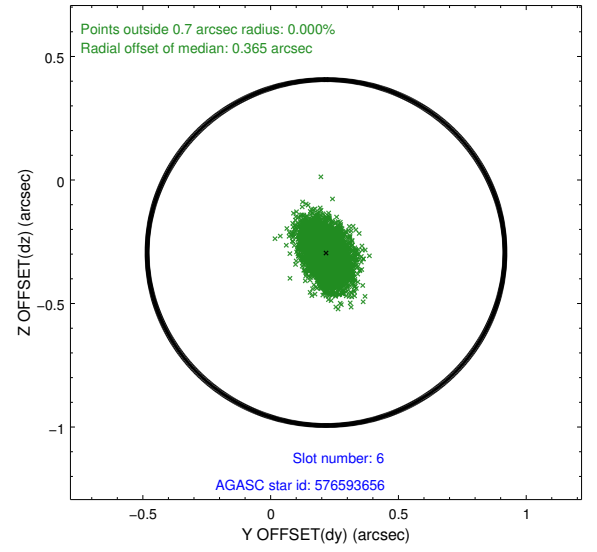
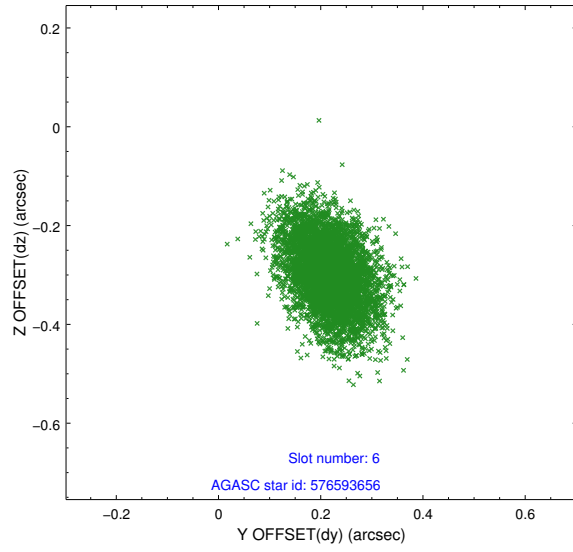
2.4.2 Slot 4



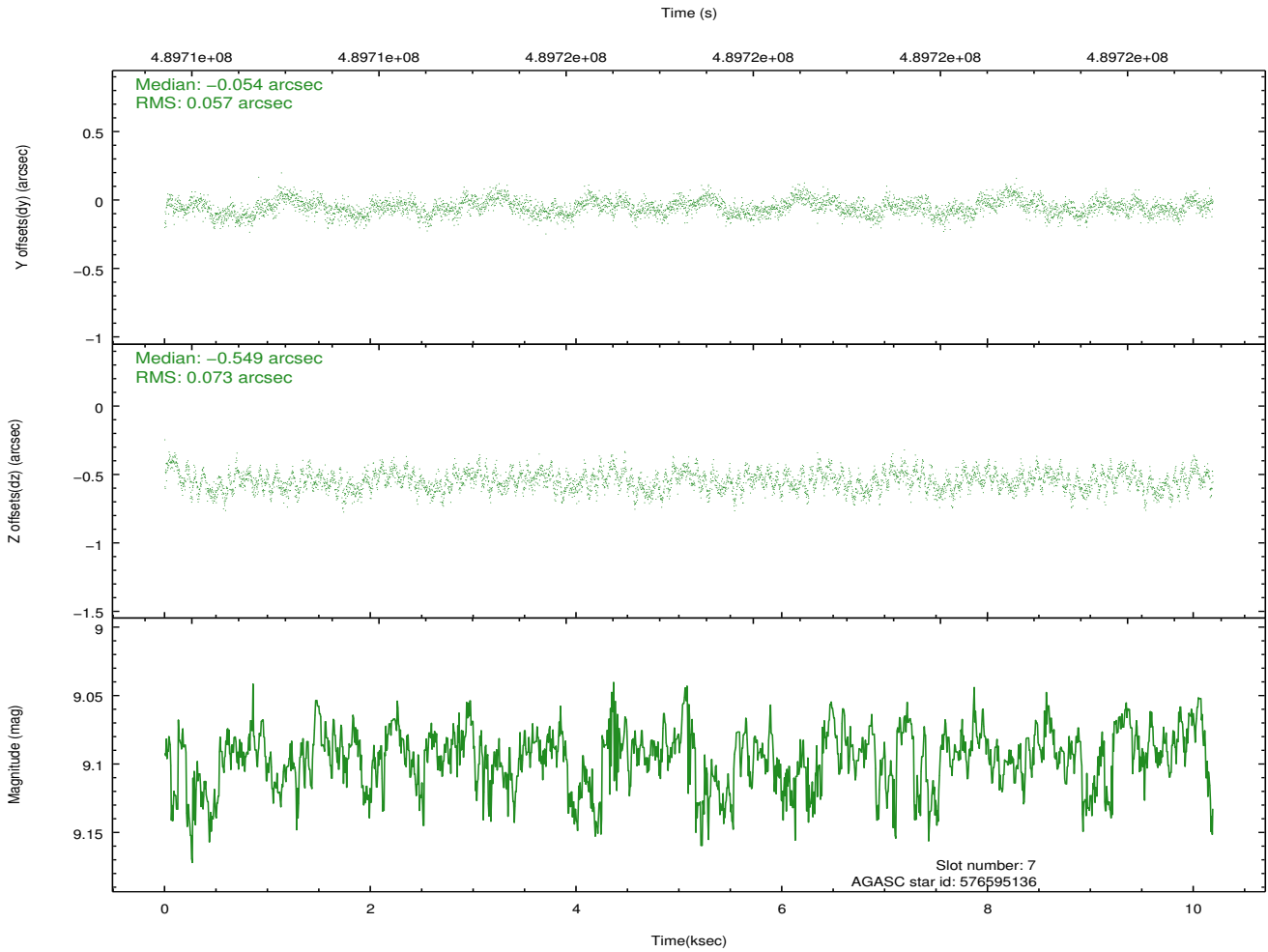
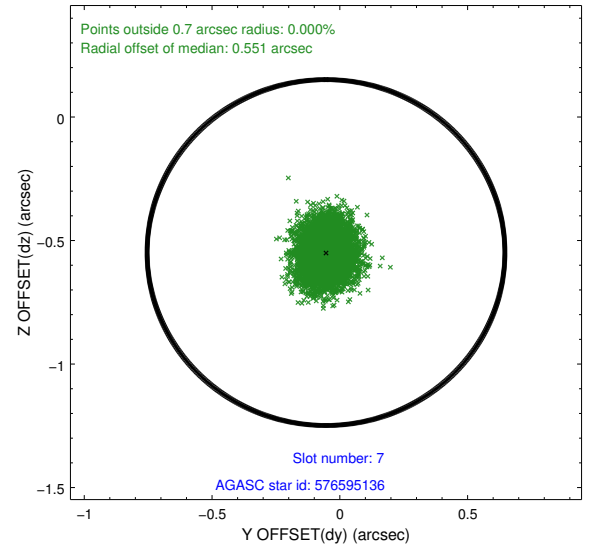
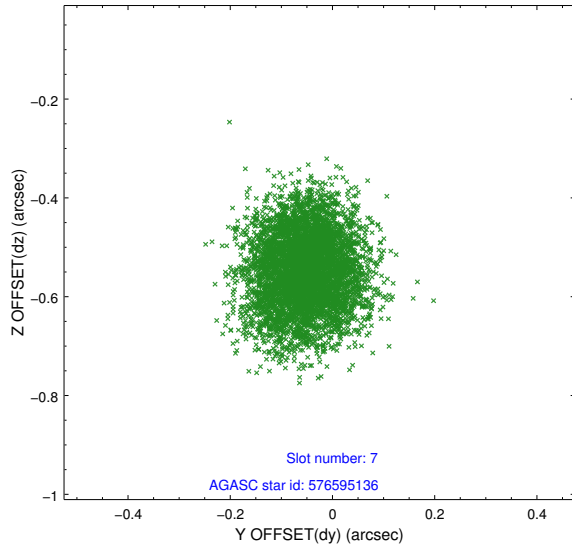
2.4.3 Slot 5



2.4.4 Slot 6

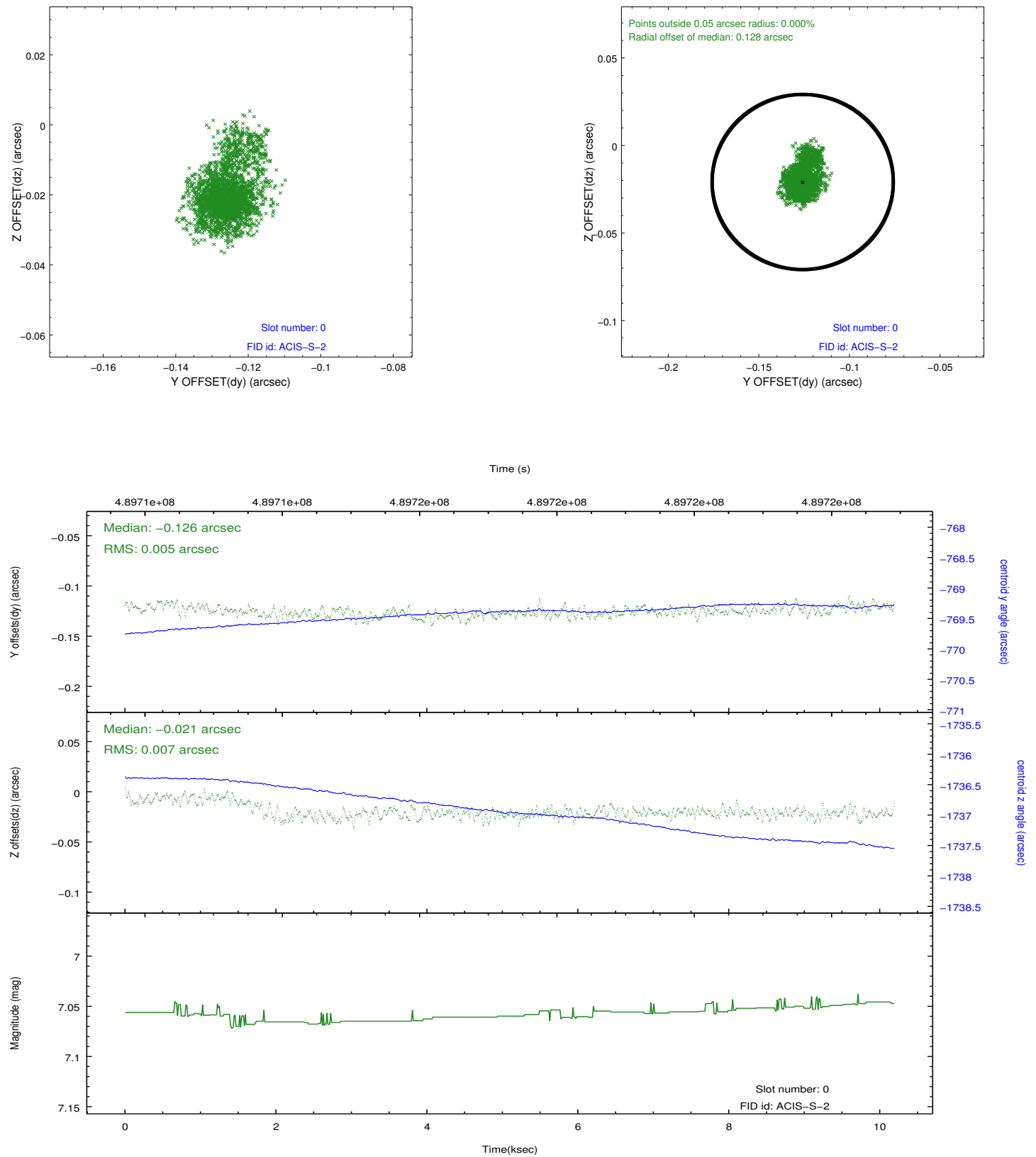


2.4.5 Slot 7

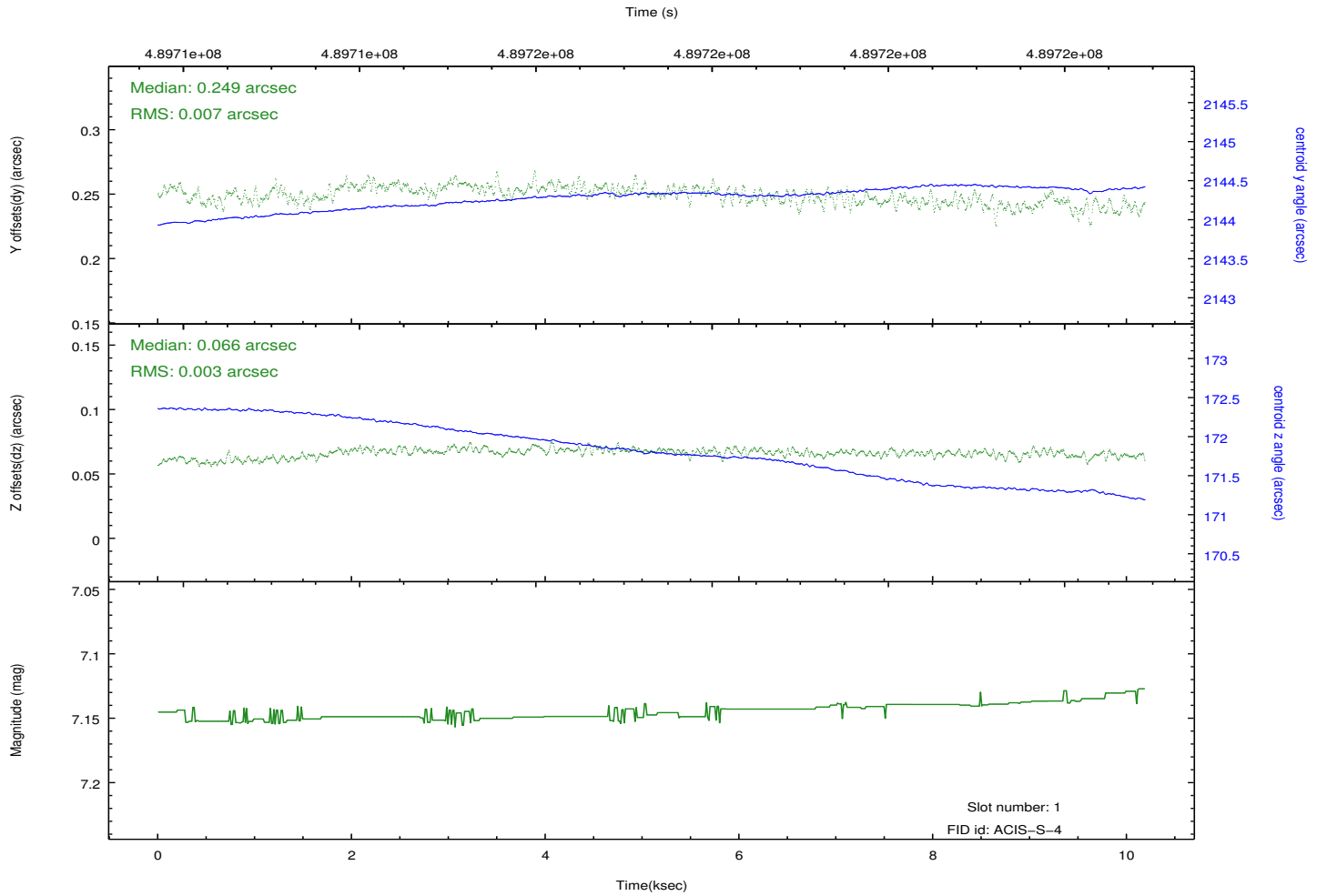
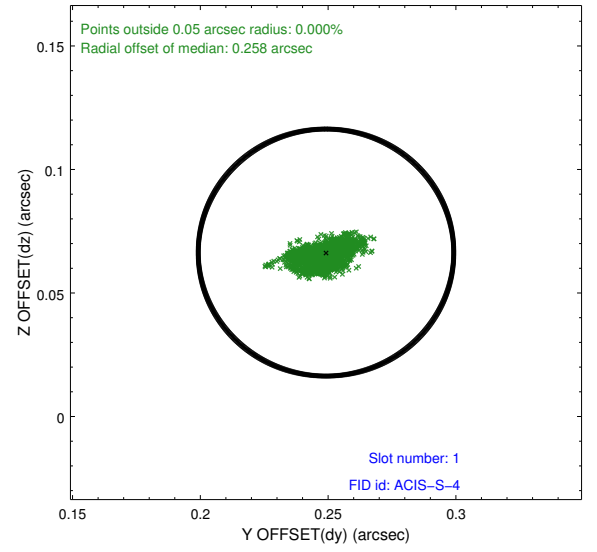
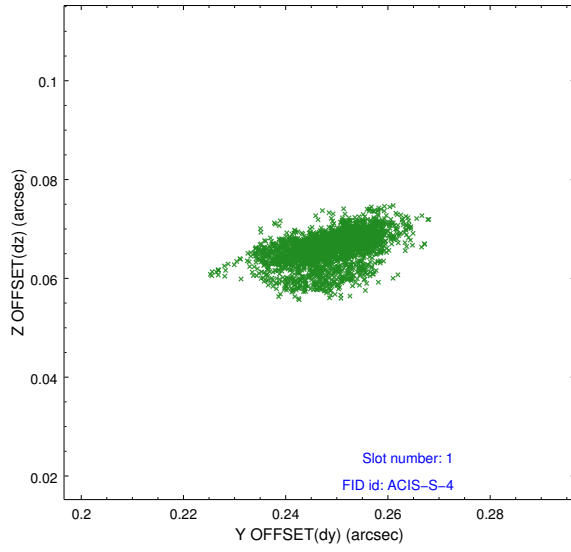


2.5 FID Slots

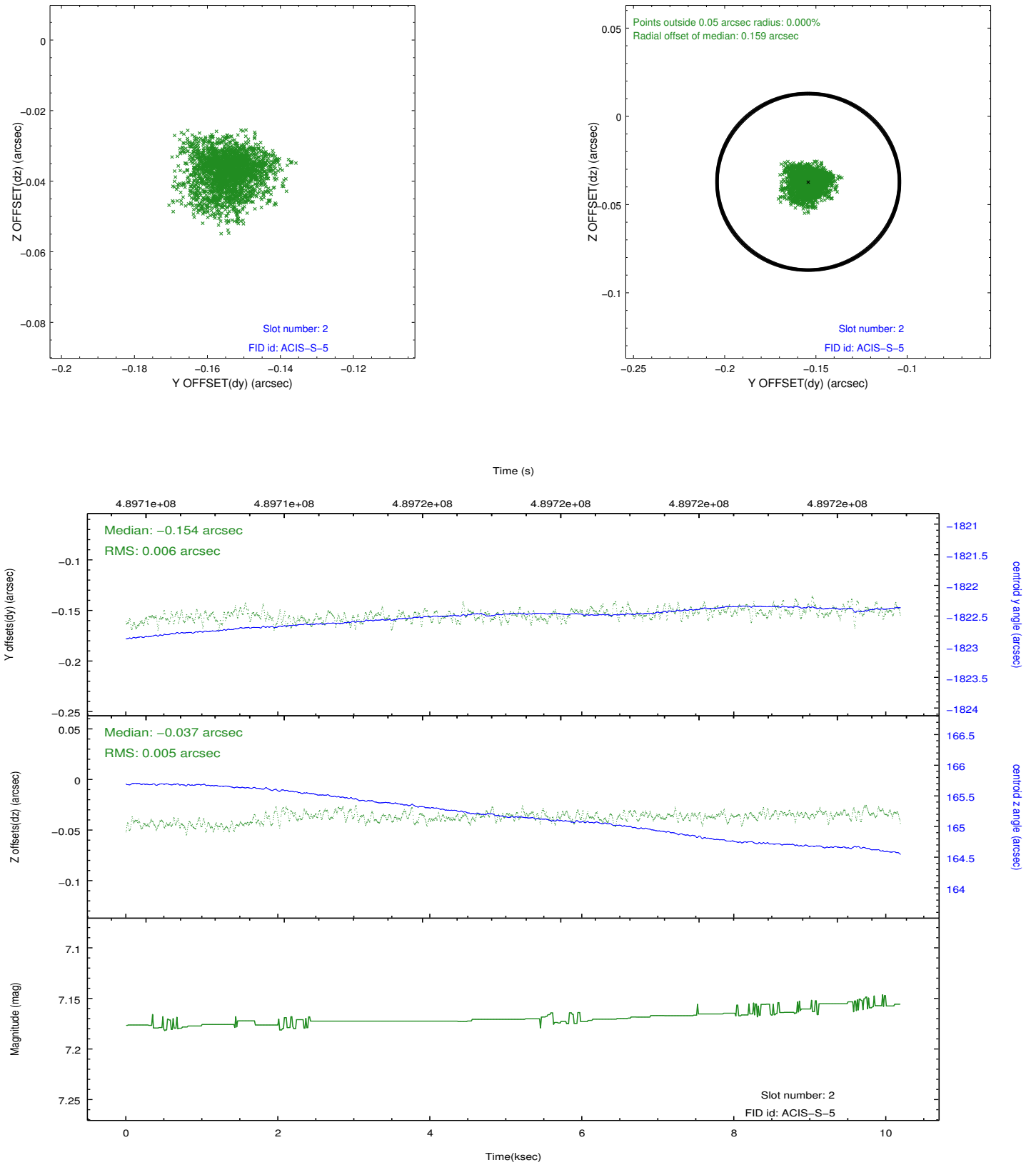
2.5.1 Slot 0



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)	2014.12.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.074083082199

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.