

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 10107 - L2 Version 2
Chandra X-Ray Center

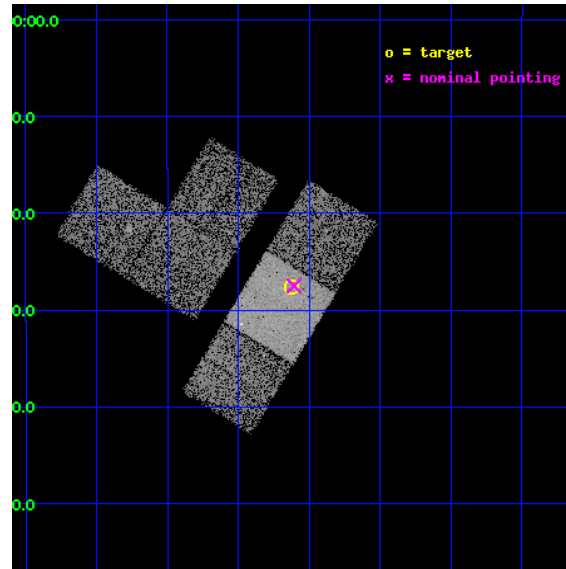
L2 Processing Date : Jun 9 2012

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1 Front

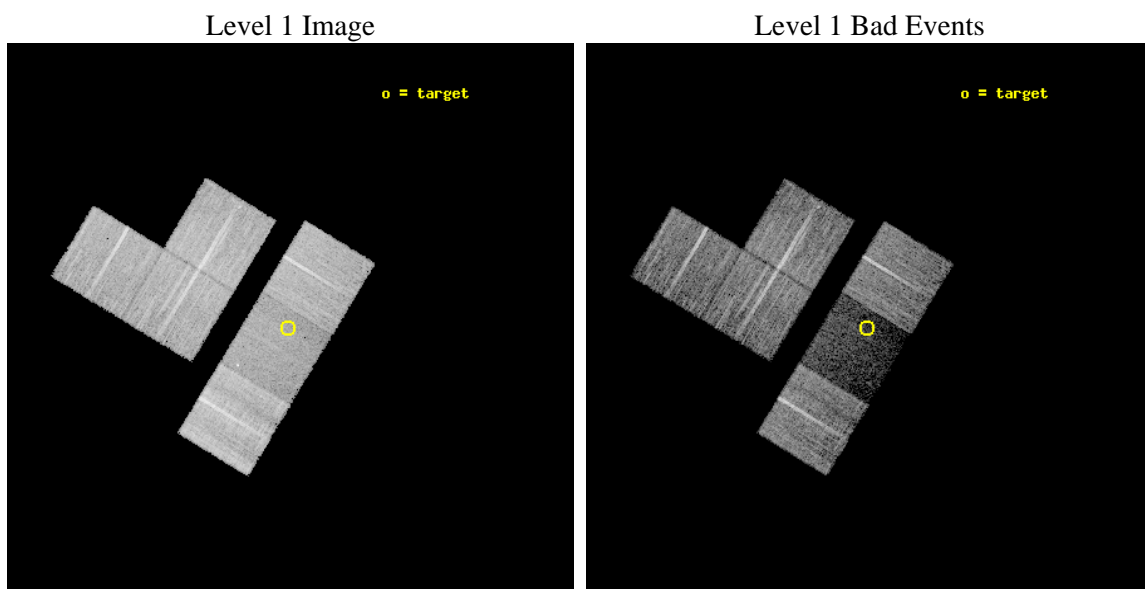
seq_num	501035	Sequence number
obs_id	10107	Observation id
title	Are all black widows alike?	Proposal title
observer	Dr. Vyacheslav Zavlin	Principal investigator
object	PSR J2051-0827	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	312.78125	Observer's specified target RA [deg]
dec_targ	-8.460556	Observer's specified target Dec [deg]
ra_nom	312.77689827272	Nominal RA [deg]
dec_nom	-8.4583821260932	Nominal Dec [deg]
roll_nom	121.16599670726	Nominal Roll [deg]
revision	2	Processing version of data
ontime	8755.1999674439	Sum of GTIs [s]
livetime	8644.3363537077	Livetime [s]
ontime1	8755.1999674439	Sum of GTIs [s]
ontime2	8751.9589371085	Sum of GTIs [s]
ontime3	8755.1999674439	Sum of GTIs [s]
ontime6	8755.1999674439	Sum of GTIs [s]
ontime7	8755.1999674439	Sum of GTIs [s]
ontime8	8751.9589570761	Sum of GTIs [s]
l2events	45726	Number of level 2 events



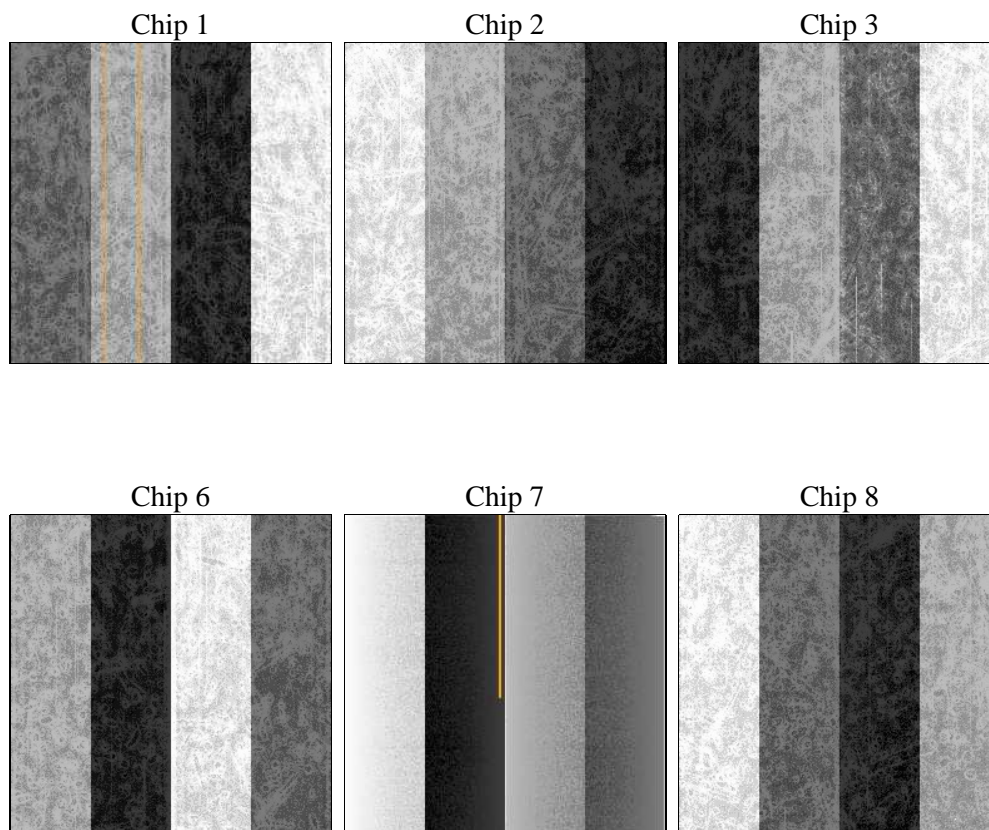
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	9000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	8755.1999674439	Sum of GTIs [s]
caldsver	4.4.10	 	ontime1	8755.1999674439	Sum of GTIs [s]
date	2012-06-09T21:45:21	Date and time of file creation	ontime2	8751.9589371085	Sum of GTIs [s]
revision	2	Processing version of data	ontime3	8755.1999674439	Sum of GTIs [s]
			ontime6	8755.1999674439	Sum of GTIs [s]
			ontime7	8755.1999674439	Sum of GTIs [s]
			ontime8	8751.9589570761	Sum of GTIs [s]
			l1events	371751	Number of level 1 events

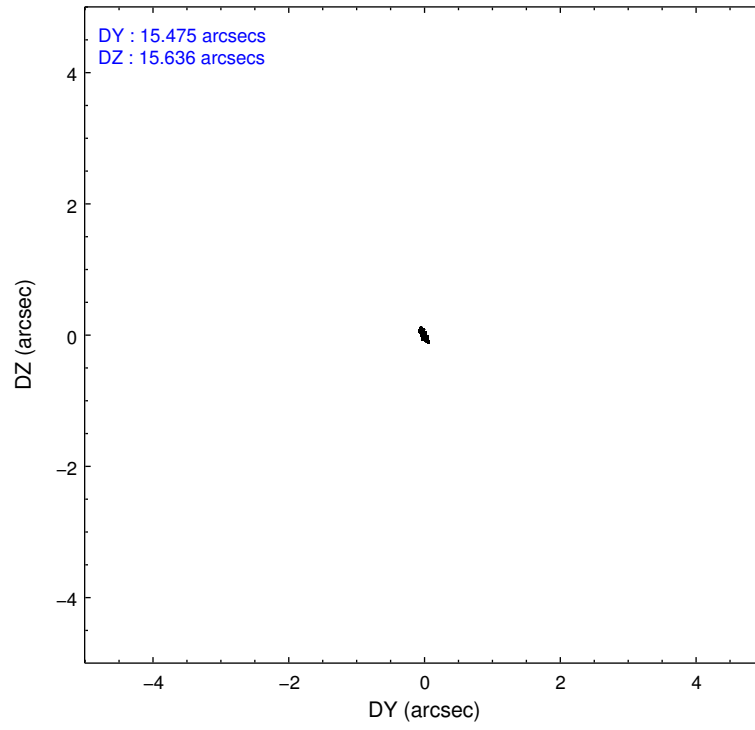
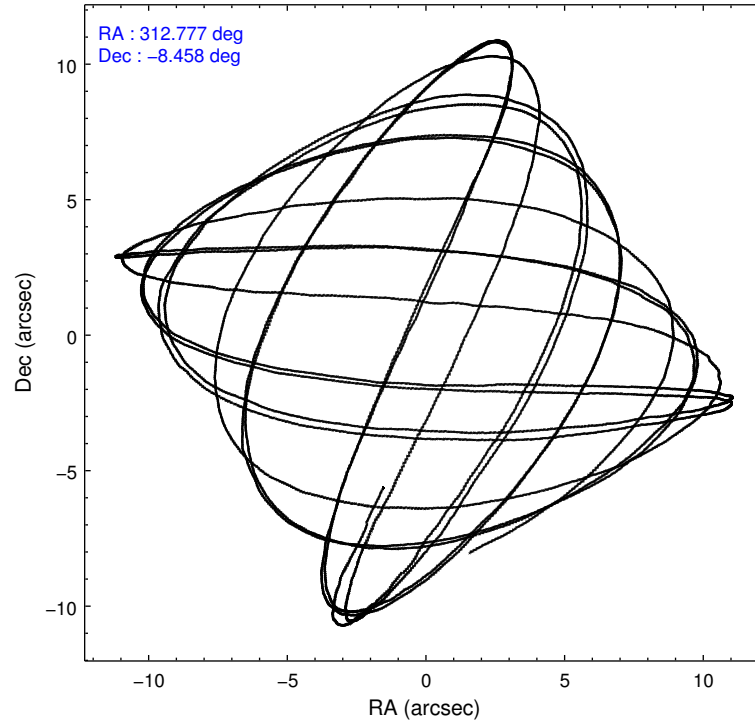
2.1.4 Events

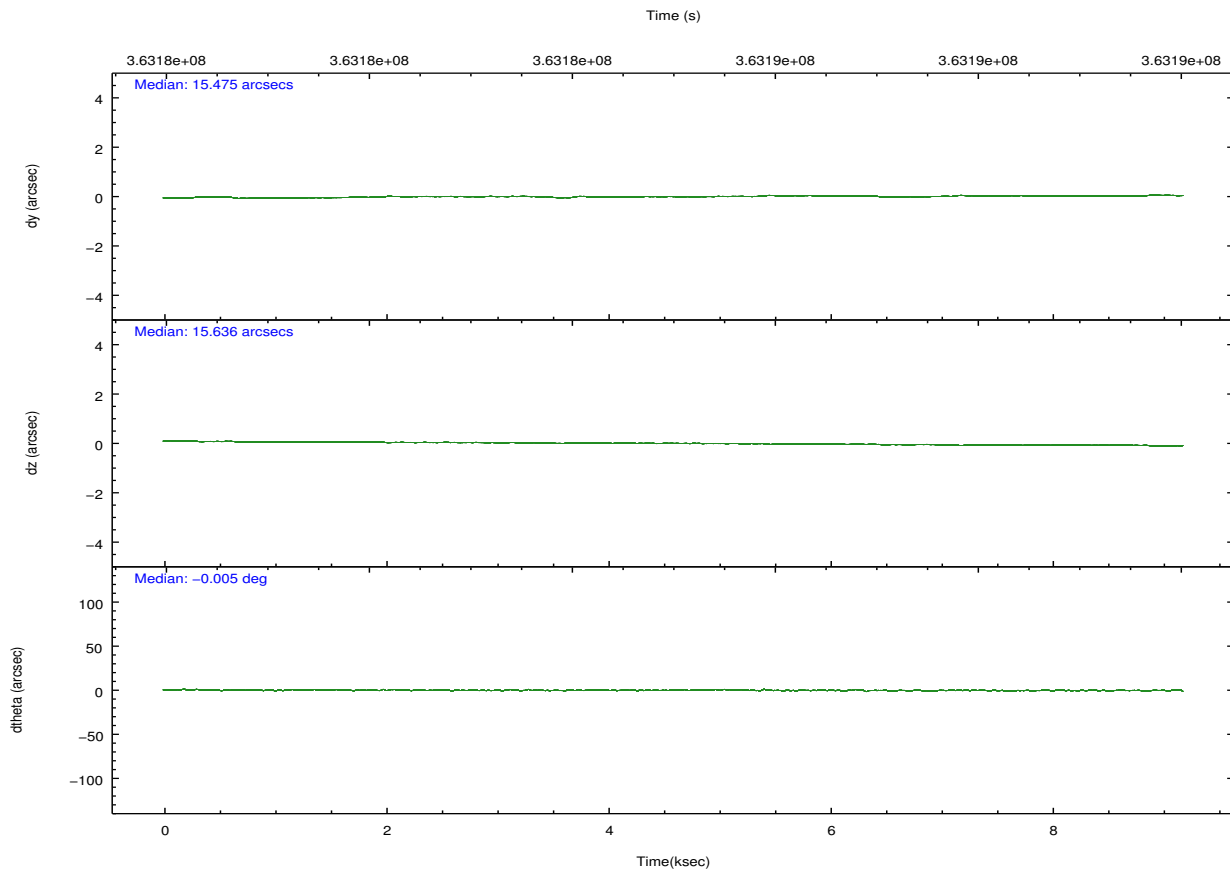
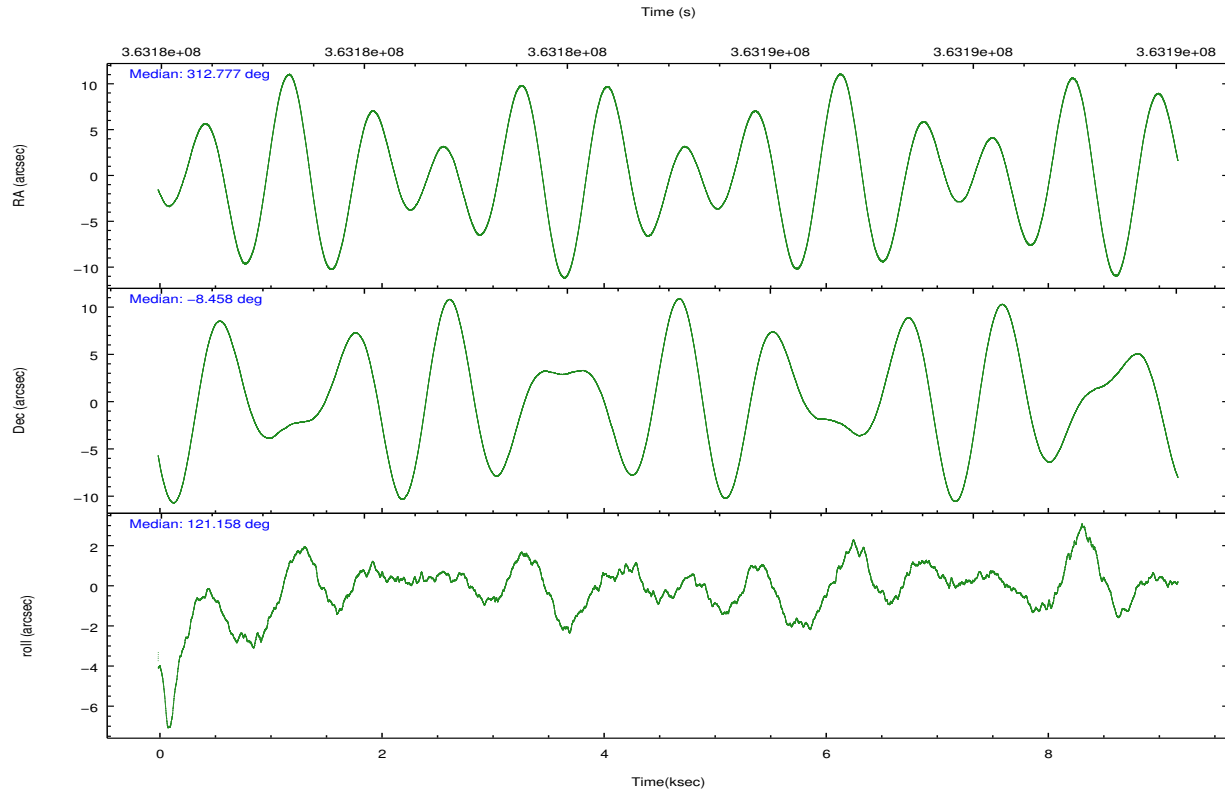
	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8		ccd 1	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	58819	67807	61915	63130	39362	80718	grade 0 events	2304	2245	2117	2413	3064	6408
rejected events	52695	62273	56723	57260	16760	58948		3%	3%	3%	3%	7%	7%
rejected %	89%	91%	91%	90%	42%	73%	grade 1 events	39	46	34	44	116	79
								0%	0%	0%	0%	0%	0%
							grade 2 events	1334	1291	1093	1321	5442	4944
								2%	1%	1%	2%	13%	6%
							grade 3 events	740	573	594	589	2222	2446
								1%	0%	0%	0%	5%	3%
							grade 4 events	659	632	575	603	2234	2320
								1%	0%	0%	0%	5%	2%
							grade 5 events	1345	985	1352	1320	4081	2407
								2%	1%	2%	2%	10%	2%
							grade 6 events	1088	795	815	947	9647	5683
								1%	1%	1%	1%	24%	7%
							grade 7 events	51310	61240	55335	55893	12556	56431
								87%	90%	89%	88%	31%	69%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-123678	ACIS-123678	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	O1	Y
[deg] Pointing RA	312.801279	312.7768982727231	CCD I2 on	Y	Y
[deg] Pointing Dec	-8.471200	-8.458382126093202	CCD I3 on	Y	Y
[deg] Pointing Roll	121.012951	121.1659967072616	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	Y	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)	363180583.184000	363180208.082	CCD S5 on	N	N
Observation start date	2009-07-05T11:28:37	2009-07-05T11:23:28	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	363189583.184000	363189717.51997	On-chip summing requested	N	N
Observation end date	2009-07-05T13:58:37	2009-07-05T14:01:57	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



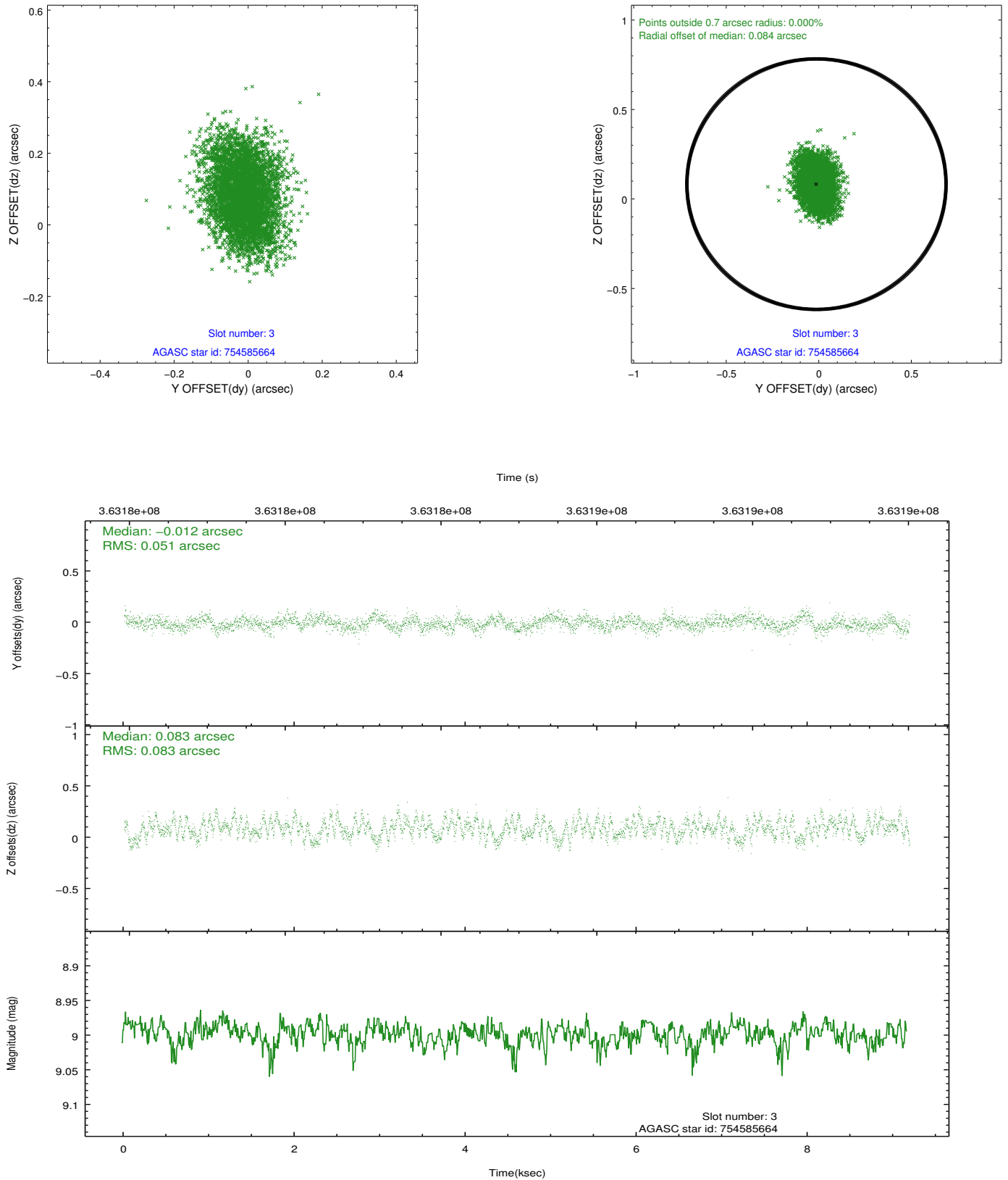


Slot Statistics

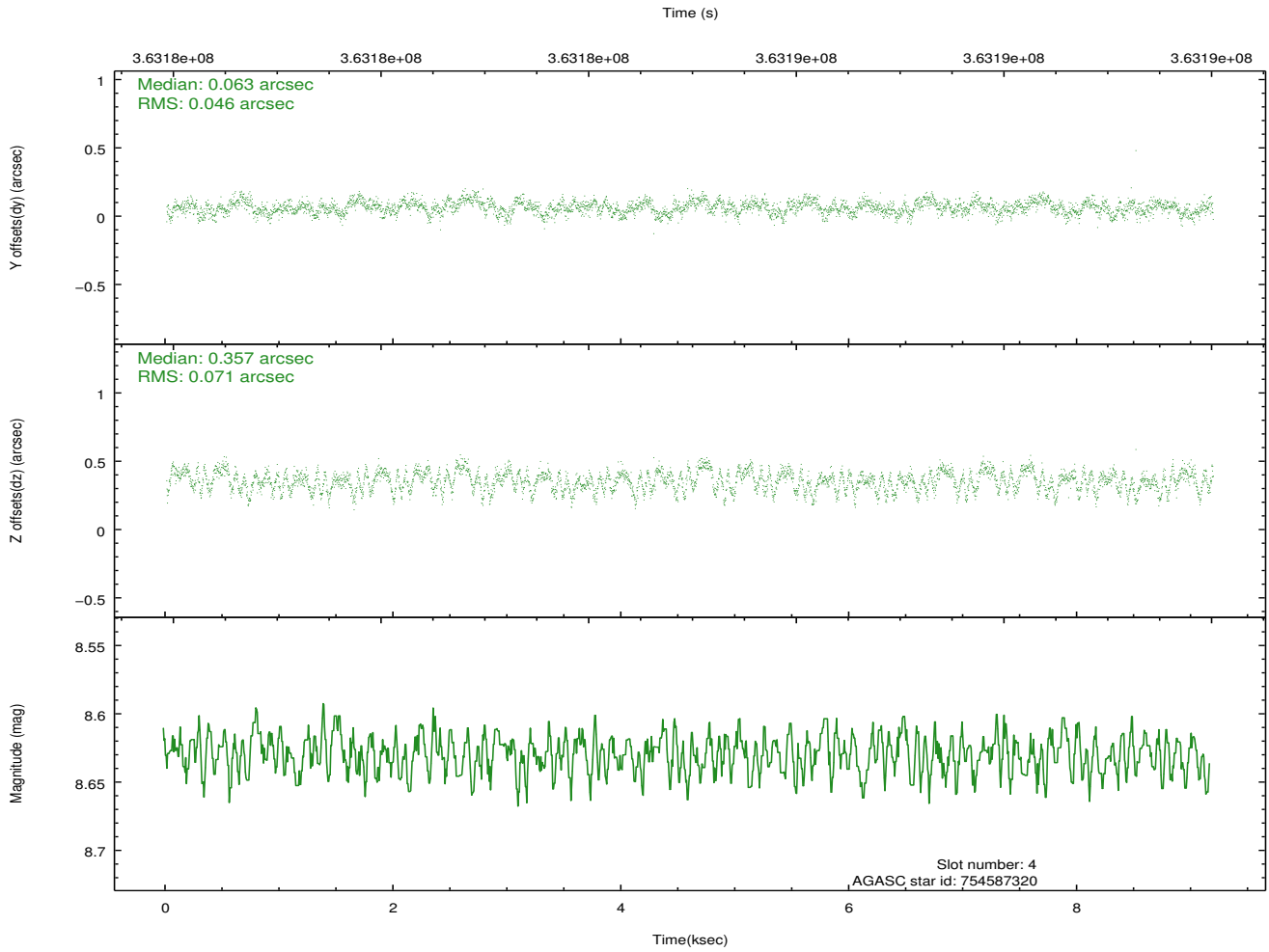
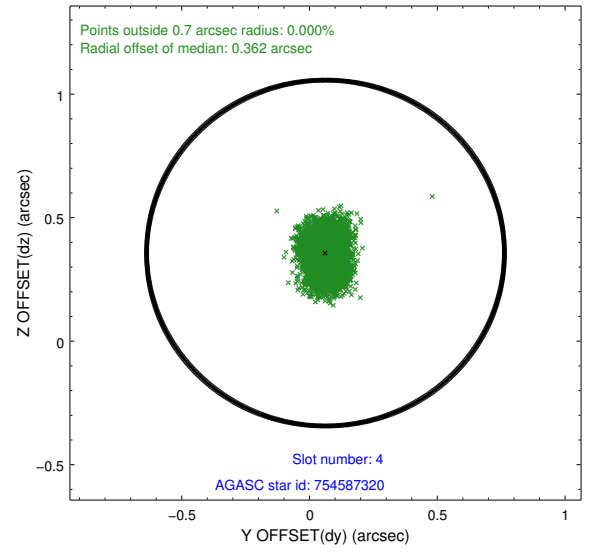
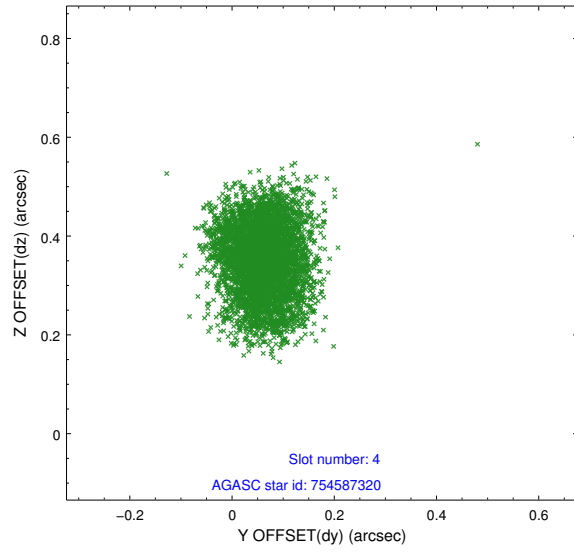
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.94	2240	-0.099	-0.016	0.007	0.011	0.000000	0.000000	-768.54	-1737.00
1	FID	ACIS-S-4	7.03	2239	0.192	0.052	0.006	0.011	0.000000	0.000000	2144.74	170.96
2	FID	ACIS-S-5	7.06	2240	-0.125	-0.028	0.006	0.011	0.000000	0.000000	-1820.67	165.19
3	GUIDE	754585664	9.00	4476	-0.012	0.083	0.104	0.170	313.121538	-8.063030	671.34	-1734.86
4	GUIDE	754587320	8.63	4476	0.063	0.357	0.091	0.144	313.590335	-8.511412	-1573.22	-2331.97
5	GUIDE	754590240	8.97	4481	0.100	-0.074	0.077	0.126	312.912479	-8.998883	-1831.92	639.29
6	GUIDE	754594632	6.42	4481	-0.110	-0.262	0.050	0.080	312.330933	-8.794047	-135.53	2033.53
7	GUIDE	754595784	8.49	4480	-0.038	-0.098	0.068	0.107	312.372598	-8.652506	226.44	1648.50

2.4 Star Slots

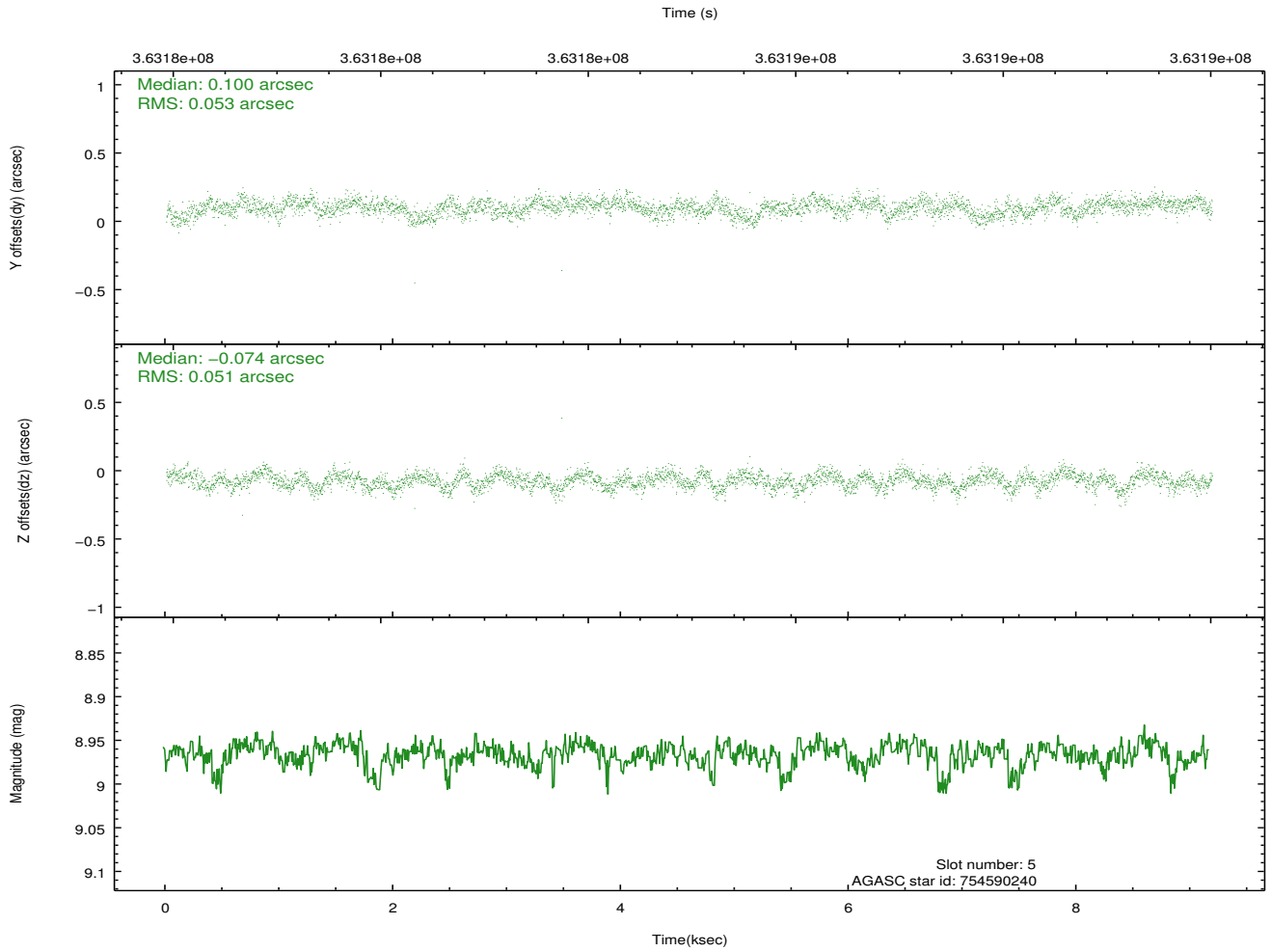
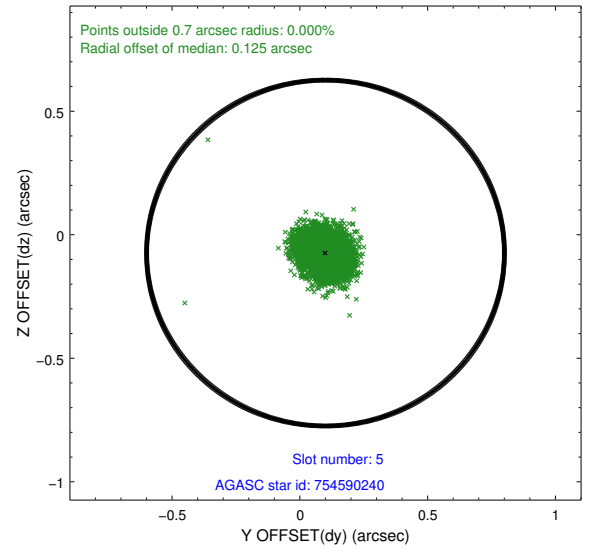
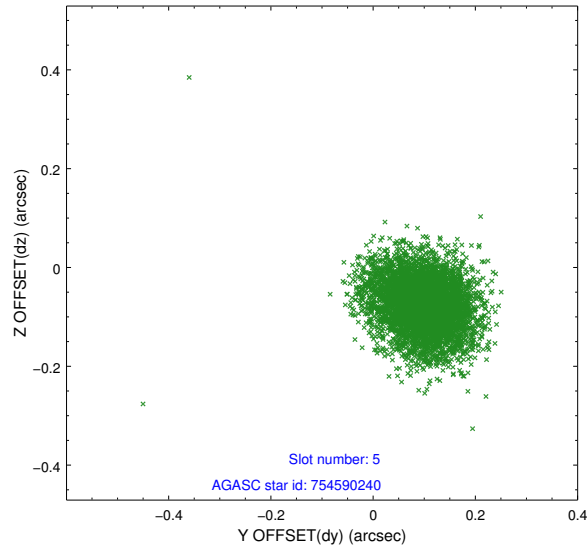
2.4.1 Slot 3



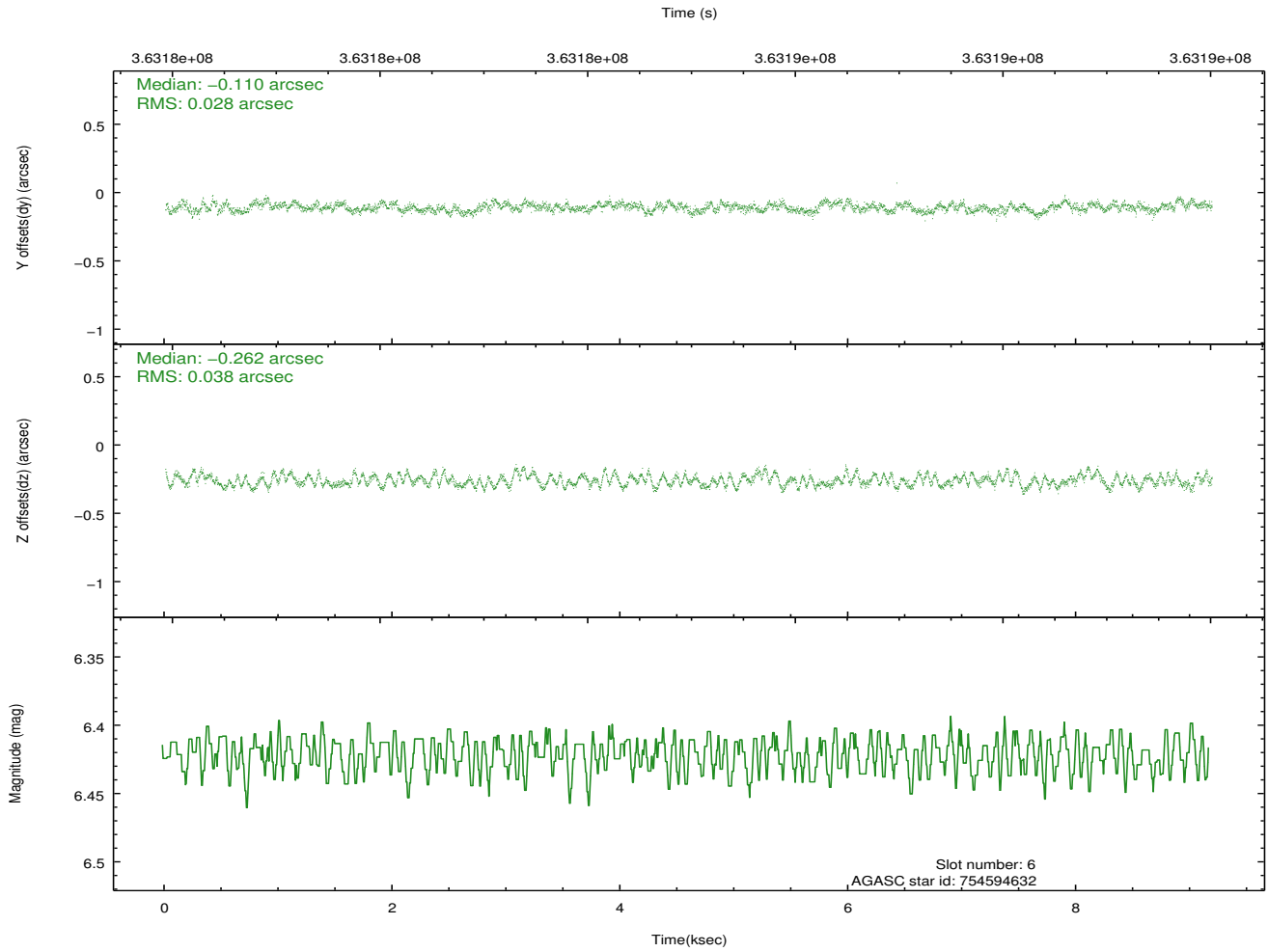
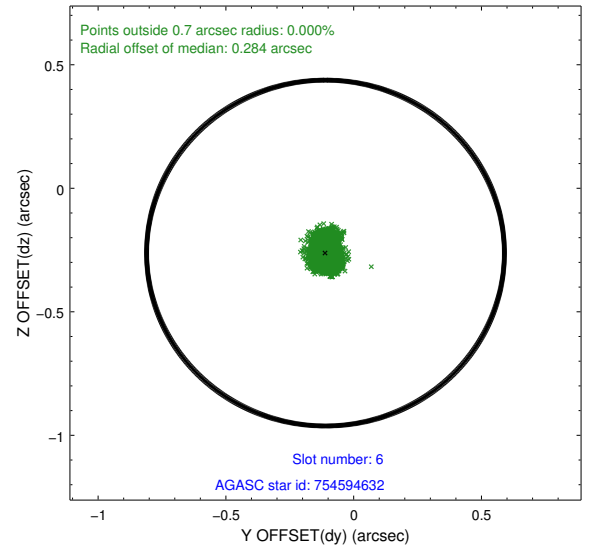
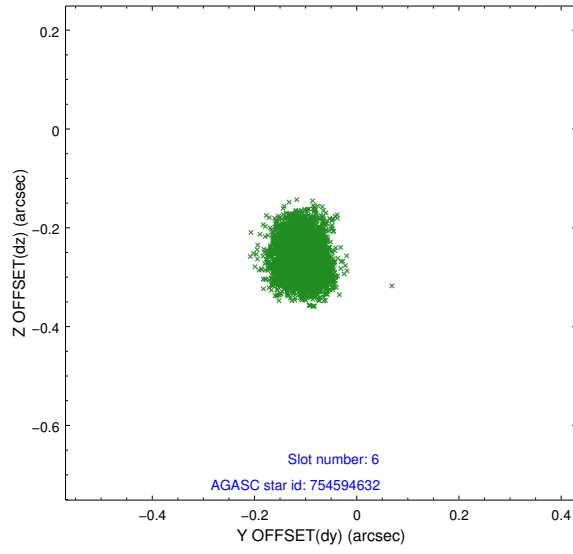
2.4.2 Slot 4



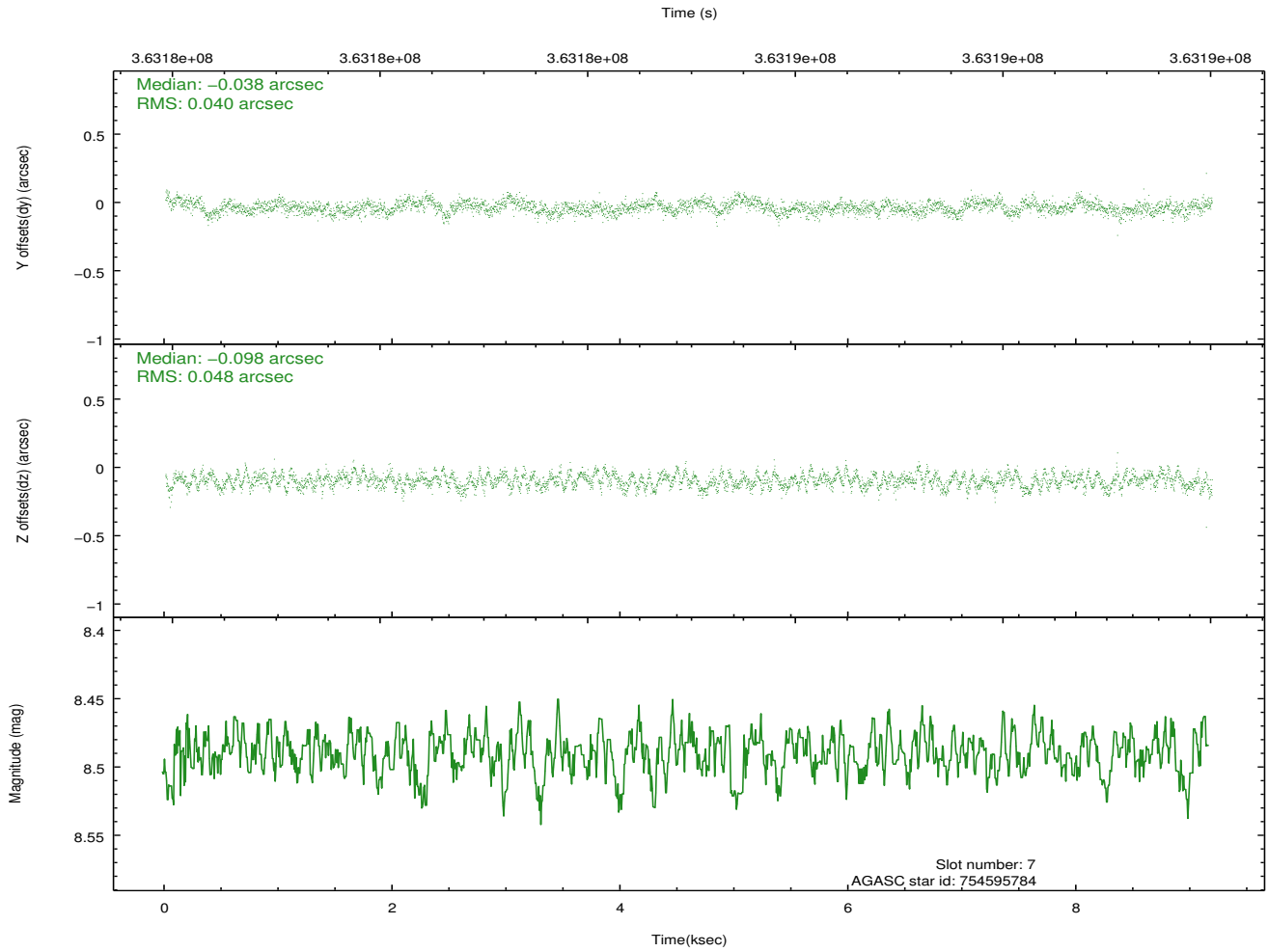
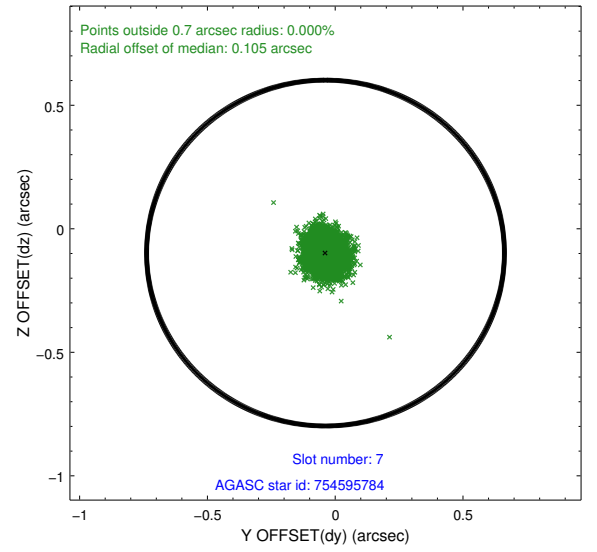
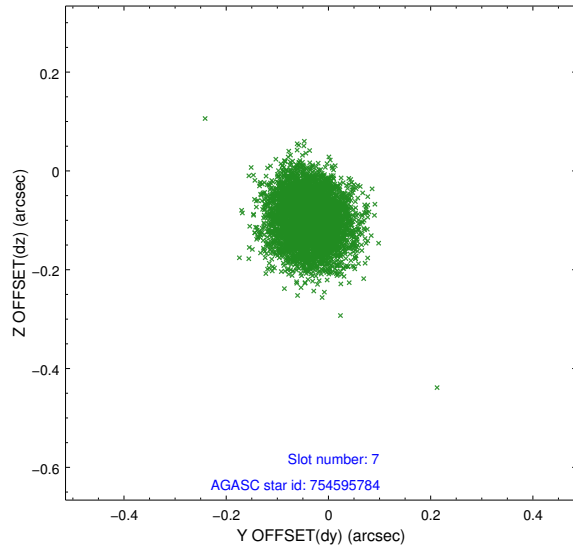
2.4.3 Slot 5



2.4.4 Slot 6

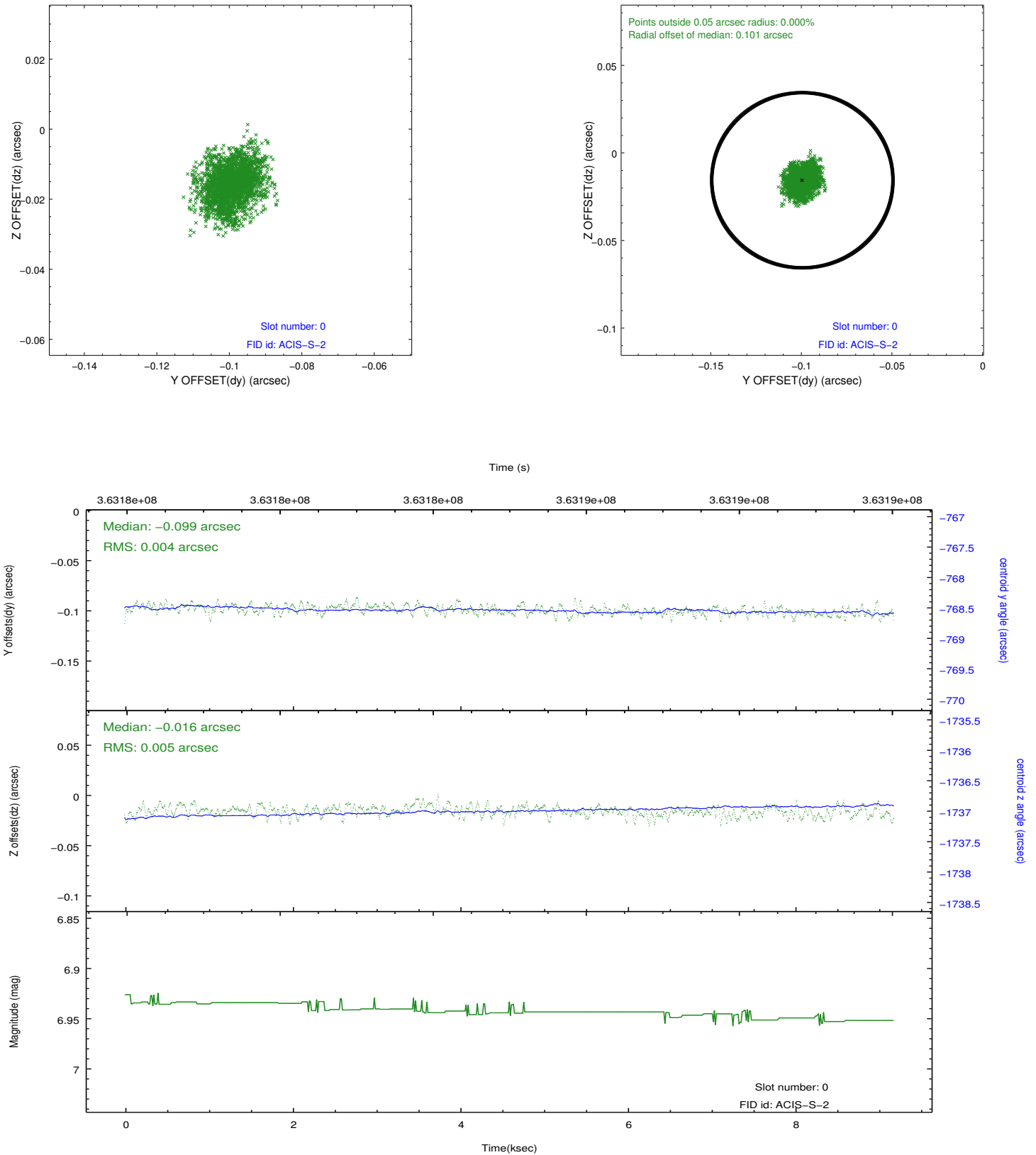


2.4.5 Slot 7

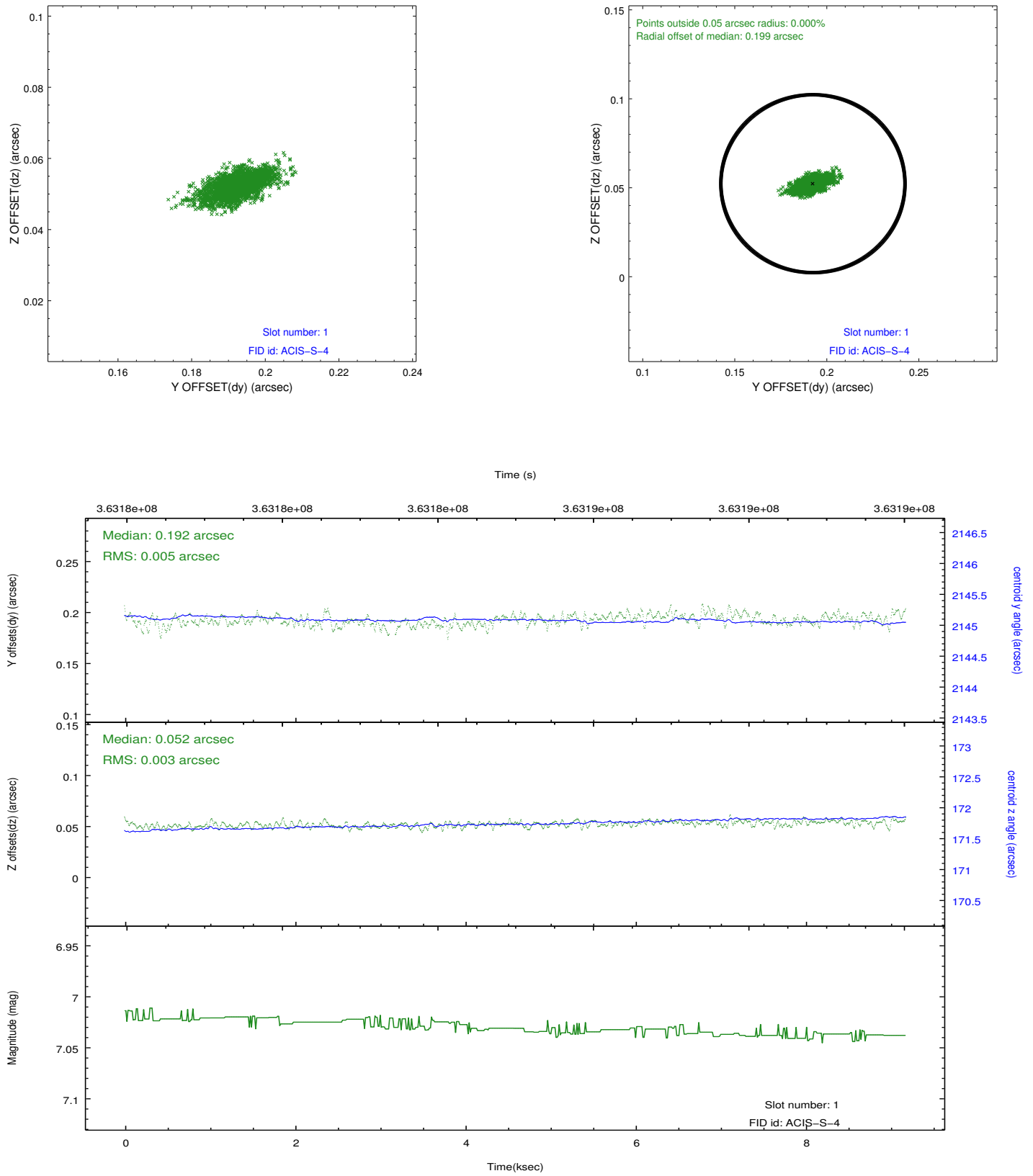


2.5 FID Slots

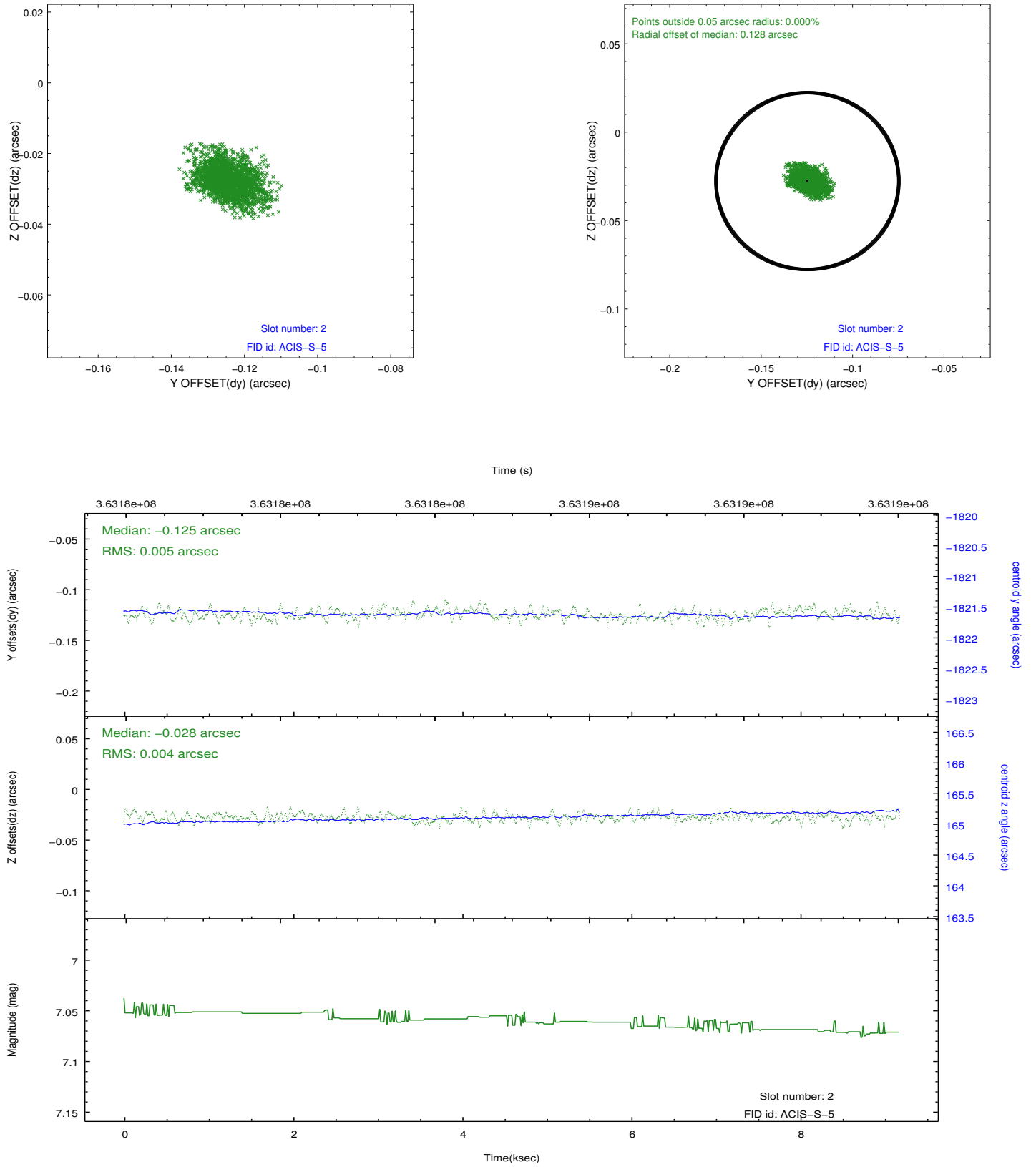
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.06.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.75519996

A.2 Comments