

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 10157 - L2 Version 2
Chandra X-Ray Center

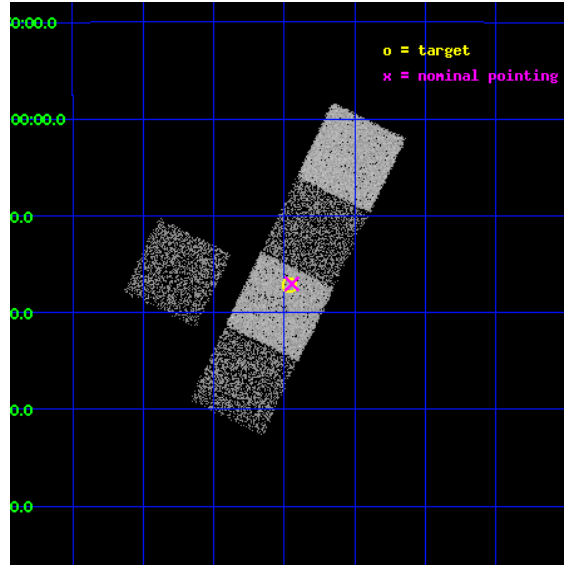
L2 Processing Date : Jun 9 2012

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

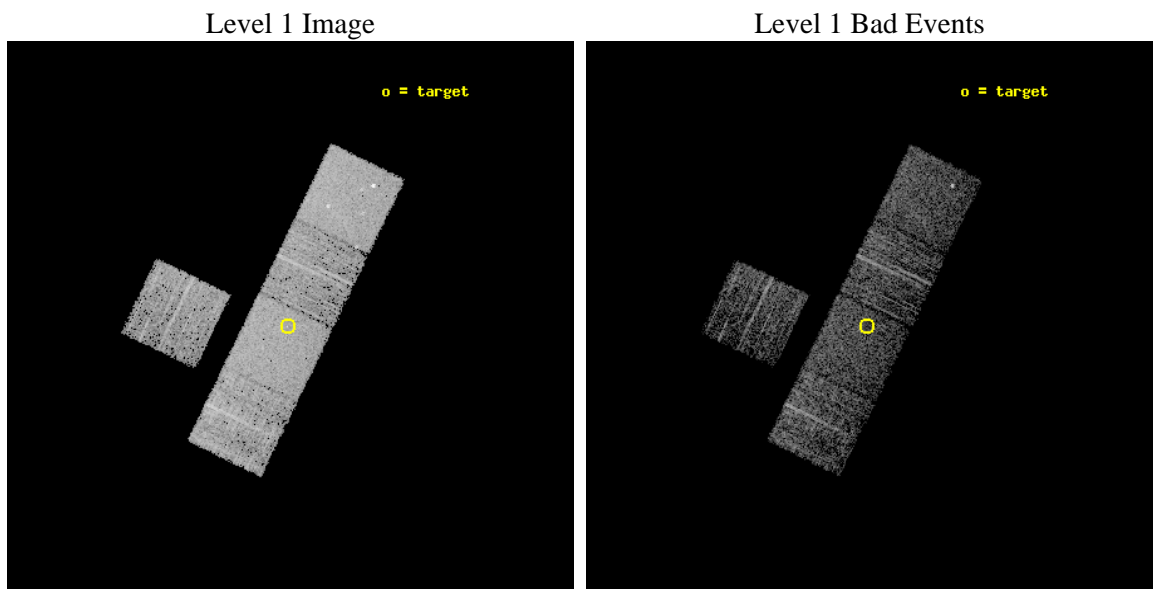
seq_num	501084	Sequence number
obs_id	10157	Observation id
title	Identifying the Nearest and Brightest Neutron Stars	Proposal title
observer	Prof. Derek Fox	Principal investigator
object	1RXSJ211727.8-101707	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	319.365833	Observer's specified target RA [deg]
dec_targ	-10.286528	Observer's specified target Dec [deg]
ra_nom	319.36161046827	Nominal RA [deg]
dec_nom	-10.284074441952	Nominal Dec [deg]
roll_nom	115.99235033675	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2135.900016427	Sum of GTIs [s]
livetime	2107.9929102857	Livetime [s]
ontime3	2135.900016427	Sum of GTIs [s]
ontime5	2135.900016427	Sum of GTIs [s]
ontime6	2135.900016427	Sum of GTIs [s]
ontime7	2135.900016427	Sum of GTIs [s]
ontime8	2135.900016427	Sum of GTIs [s]
l2events	36649	Number of level 2 events



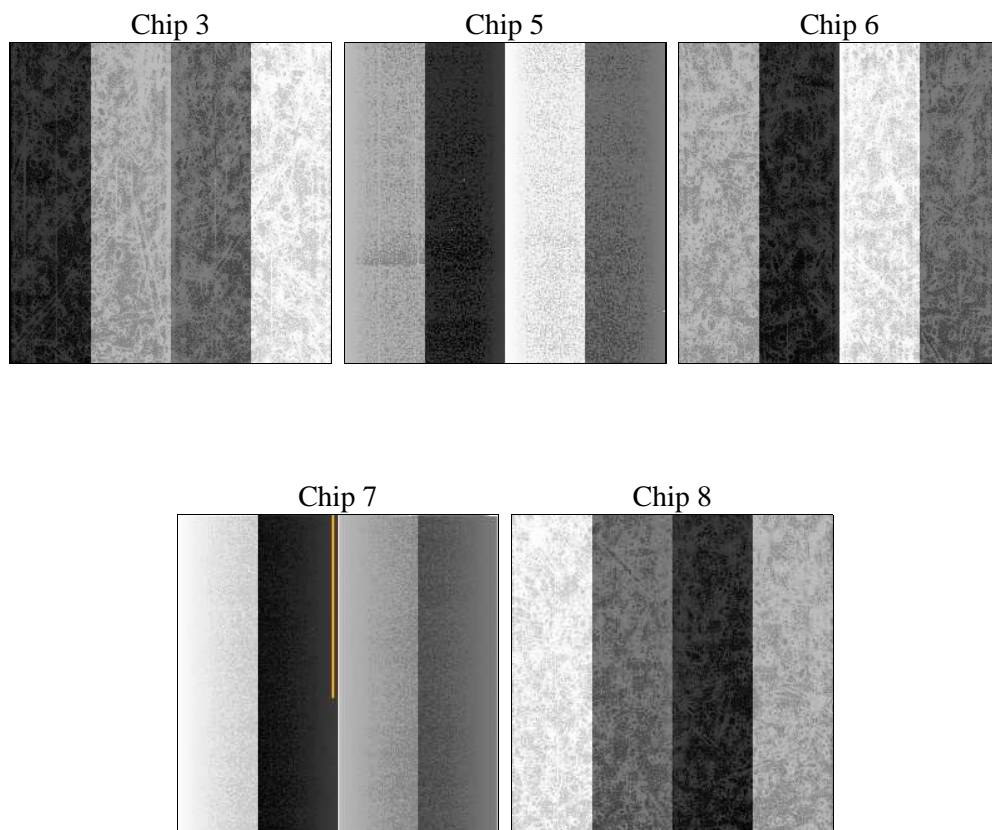
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	2135.900016427	Sum of GTIs [s]
caldsver	4.4.10	 	ontime3	2135.900016427	Sum of GTIs [s]
date	2012-06-09T22:54:38	Date and time of file creation	ontime5	2135.900016427	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	2135.900016427	Sum of GTIs [s]
			ontime7	2135.900016427	Sum of GTIs [s]
			ontime8	2135.900016427	Sum of GTIs [s]
			l1events	167594	Number of level 1 events

2.1.4 Events

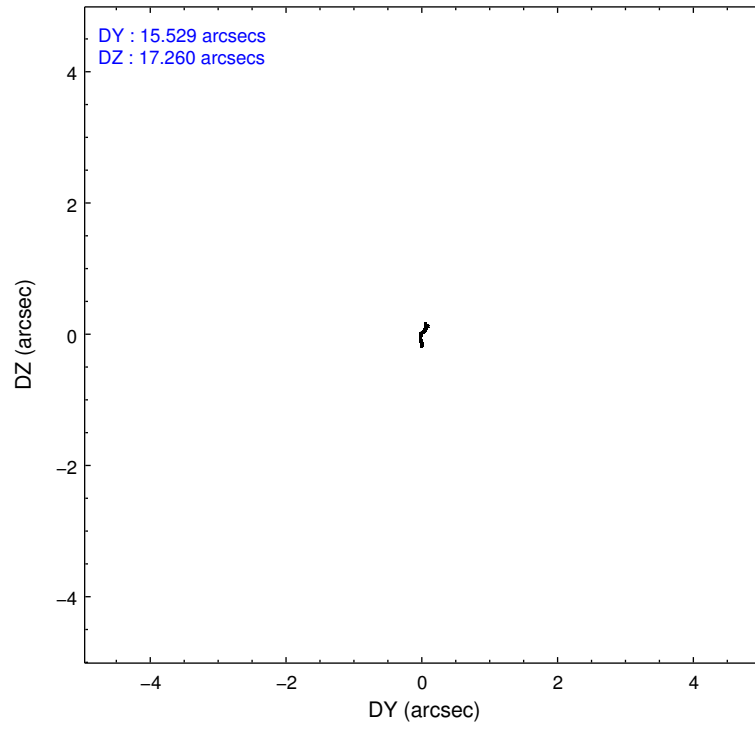
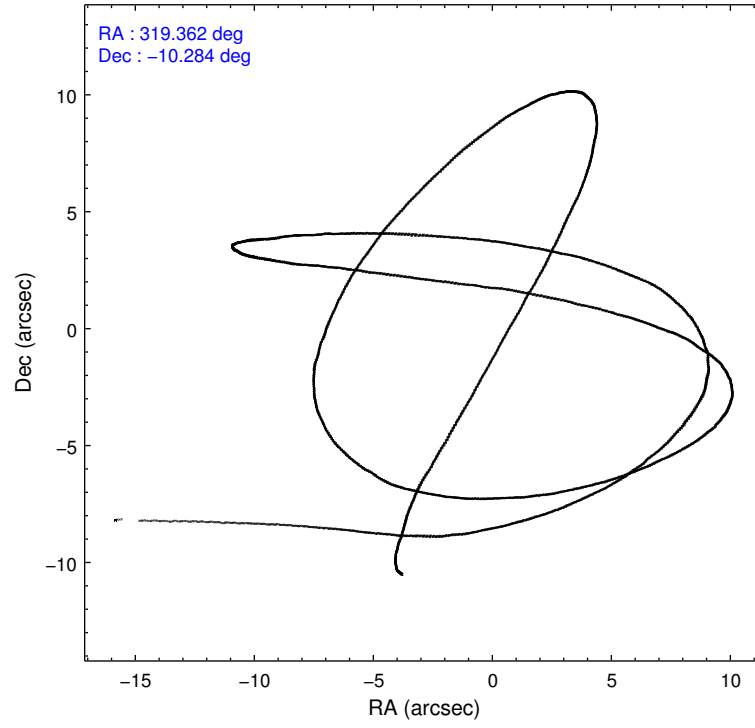
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	25540	42820	27719	37891	33624
rejected events	22920	25743	24793	24248	26734
rejected %	89%	60%	89%	63%	79%

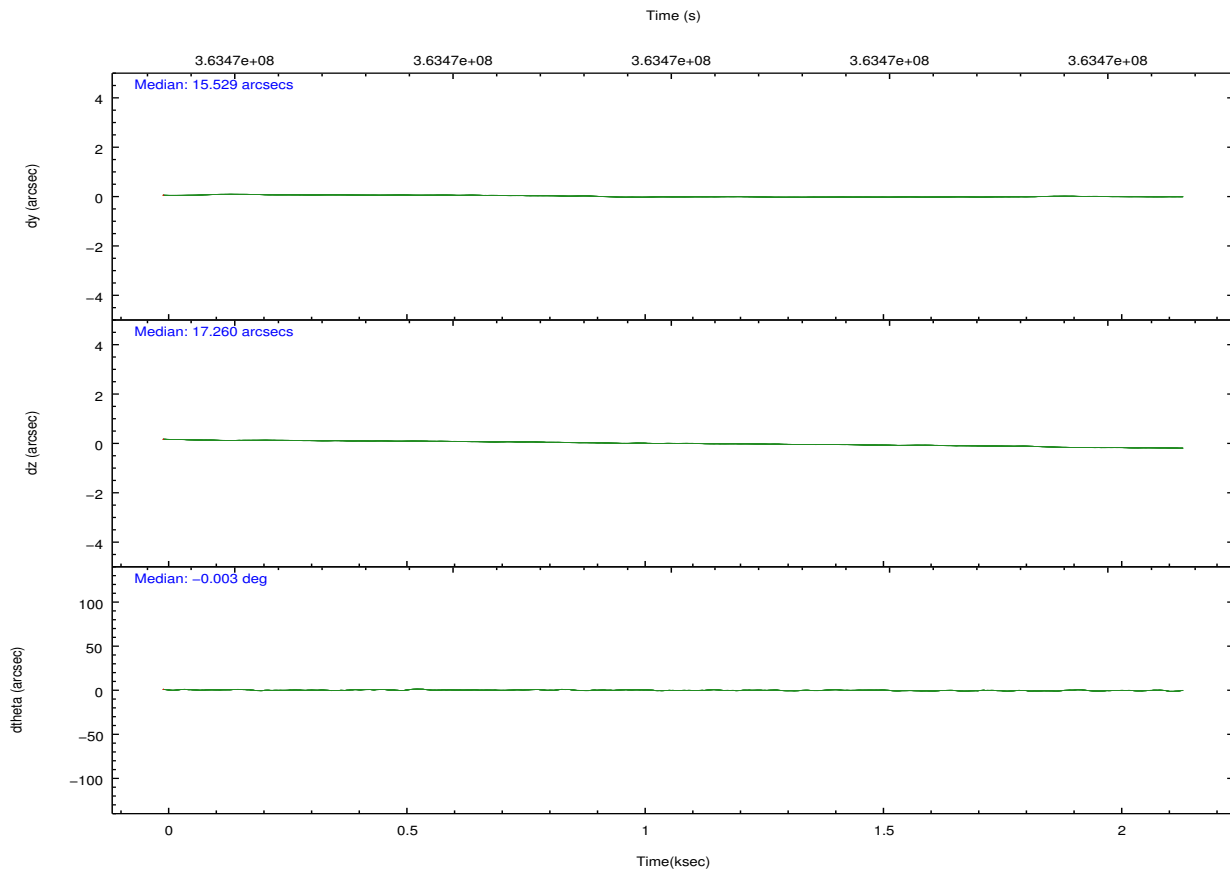
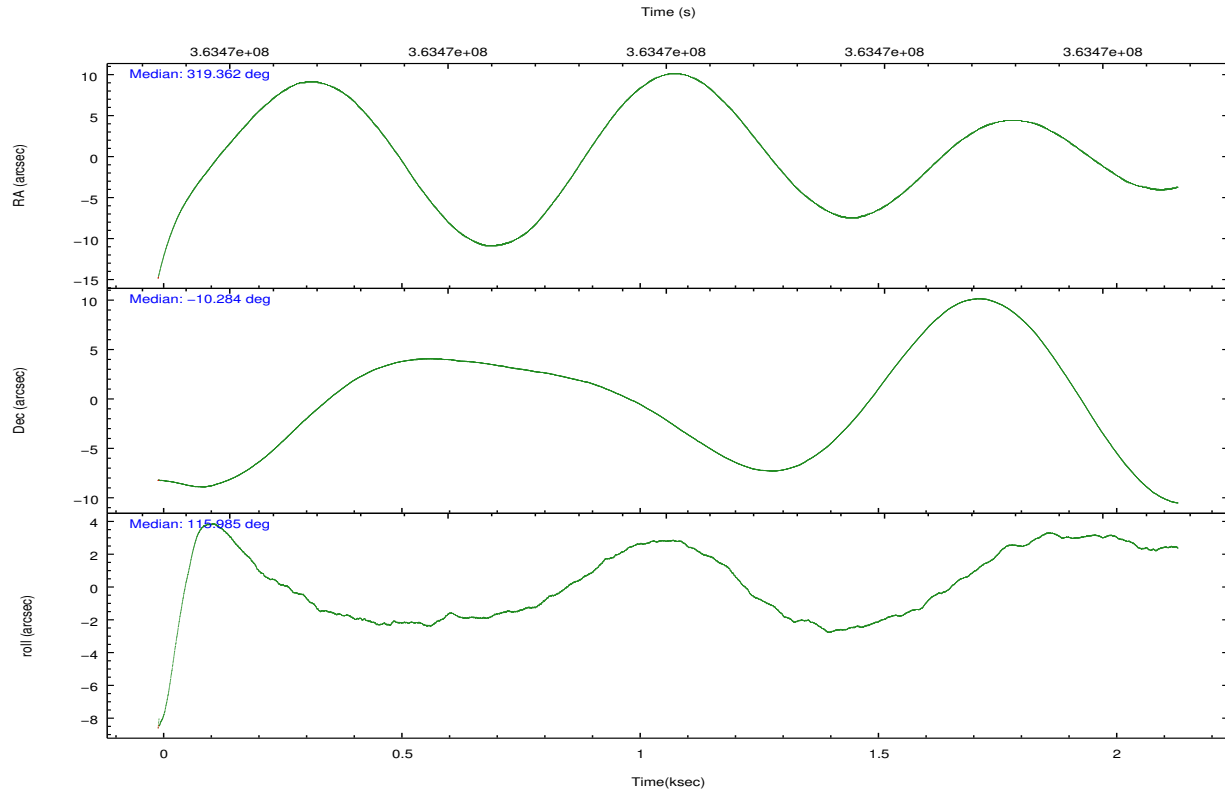
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	1325	2007	1324	1366	2488
	5%	4%	4%	3%	7%
grade 1 events	16	219	15	41	32
	0%	0%	0%	0%	0%
grade 2 events	590	6286	757	3265	1809
	2%	14%	2%	8%	5%
grade 3 events	326	710	297	1332	903
	1%	1%	1%	3%	2%
grade 4 events	303	654	334	1286	771
	1%	1%	1%	3%	2%
grade 5 events	1216	3075	1319	3516	1681
	4%	7%	4%	9%	4%
grade 6 events	537	10362	686	8577	2067
	2%	24%	2%	22%	6%
grade 7 events	21227	19507	22987	18508	23873
	83%	45%	82%	48%	70%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-35678	ACIS-35678	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	319.384919	319.3616104682732	CCD I2 on	N	N
[deg] Pointing Dec	-10.298920	-10.2840744419517	CCD I3 on	Y	Y
[deg] Pointing Roll	115.839934	115.9923503367469	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)	363466561.184000	363465402.04627	CCD S5 on	N	N
Observation start date	2009-07-08T18:54:55	2009-07-08T18:36:42	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	363468561.184000	363469228.37146	On-chip summing requested	N	N
Observation end date	2009-07-08T19:28:15	2009-07-08T19:40:28	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



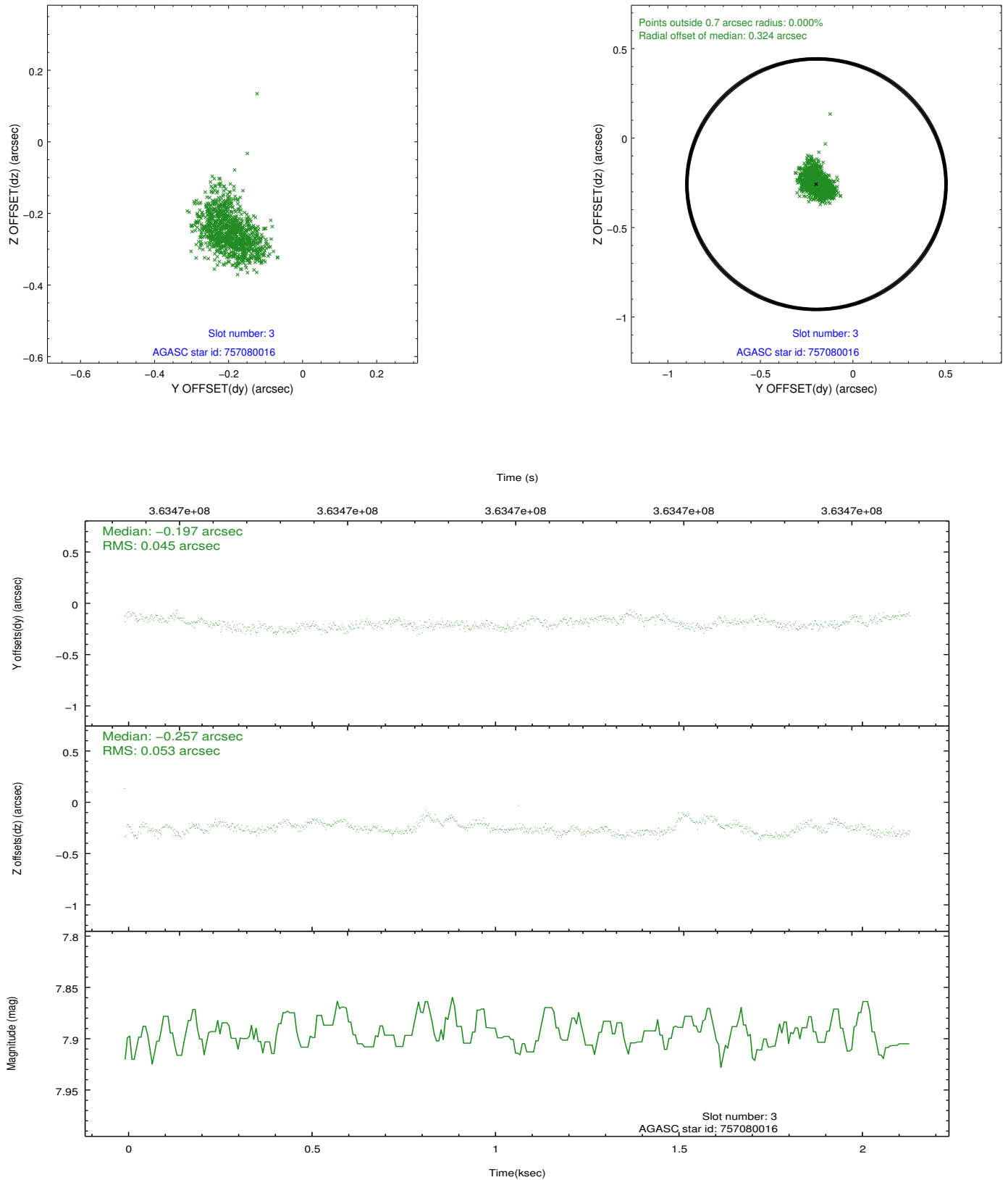


Slot Statistics

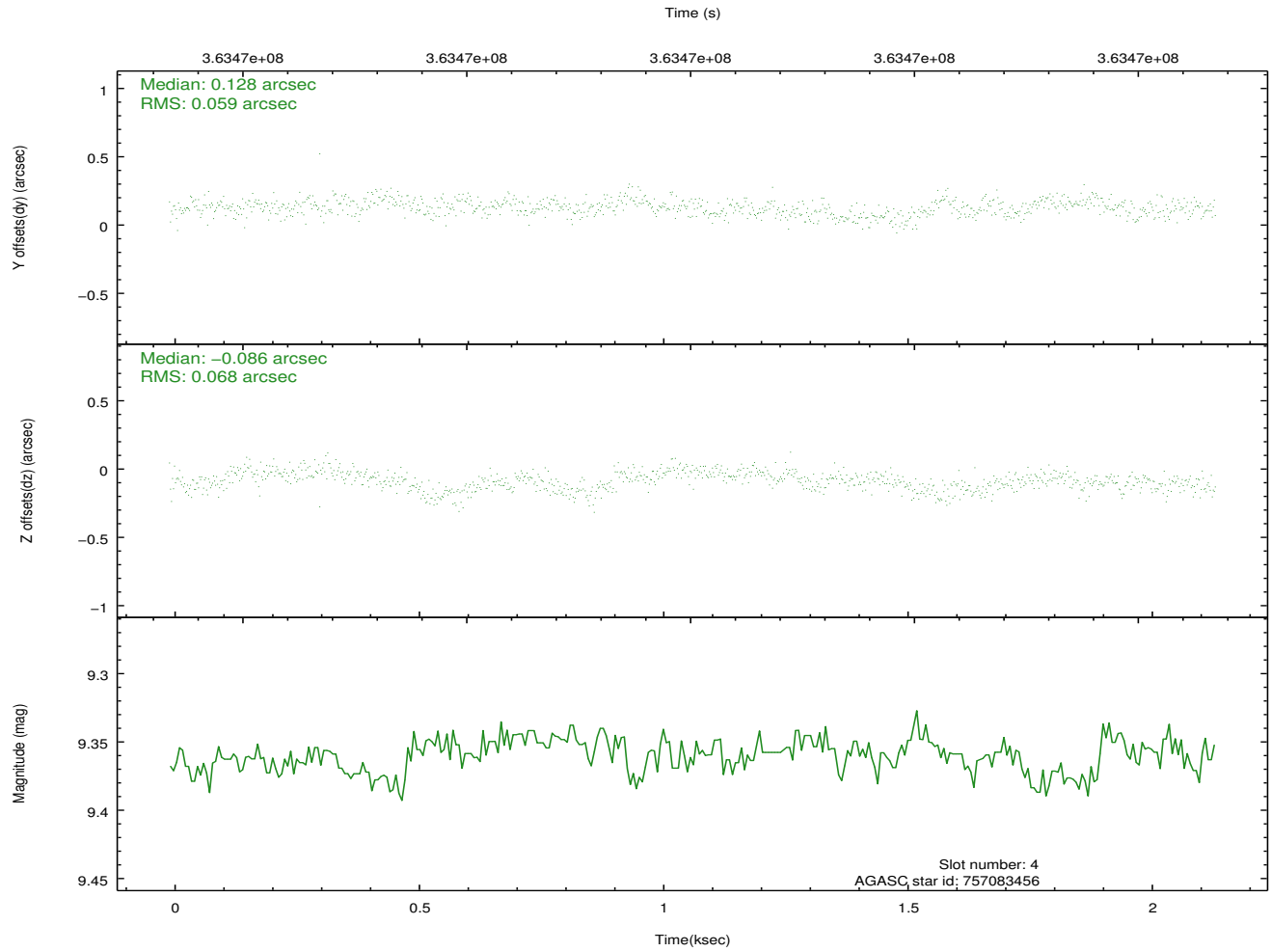
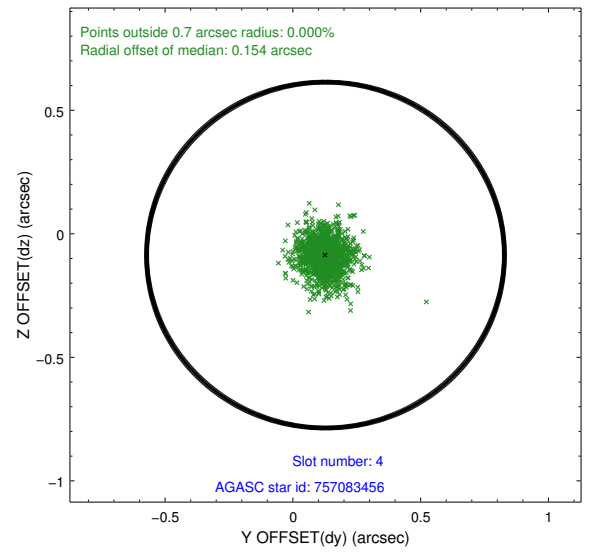
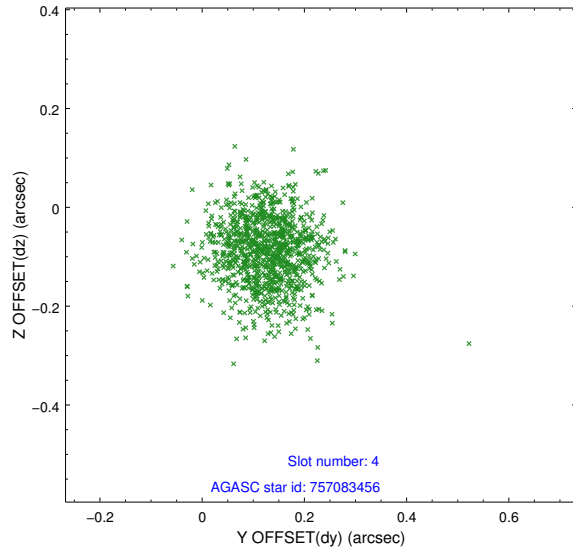
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.87	523	-0.065	-0.031	0.007	0.012	0.000000	0.000000	-768.64	-1738.71
1	FID	ACIS-S-4	6.96	522	0.158	0.040	0.006	0.010	0.000000	0.000000	2143.51	166.61
2	FID	ACIS-S-5	6.99	523	-0.124	-0.000	0.007	0.011	0.000000	0.000000	-1817.60	163.80
3	GUIDE	757080016	7.90	1045	-0.197	-0.257	0.073	0.117	318.849097	-10.347908	667.32	1784.95
4	GUIDE	757083456	9.36	1044	0.128	-0.086	0.093	0.155	319.483660	-10.815110	-1823.69	497.29
5	GUIDE	757205032	8.68	1044	0.065	0.174	0.076	0.128	320.024668	-10.473038	-1554.27	-1763.87
6	GUIDE	757207904	9.20	1044	-0.046	-0.038	0.085	0.142	319.791331	-10.046791	187.34	-1693.46
7	GUIDE	757210752	8.75	1043	0.055	0.209	0.091	0.149	320.031796	-10.217447	-735.97	-2191.21

2.4 Star Slots

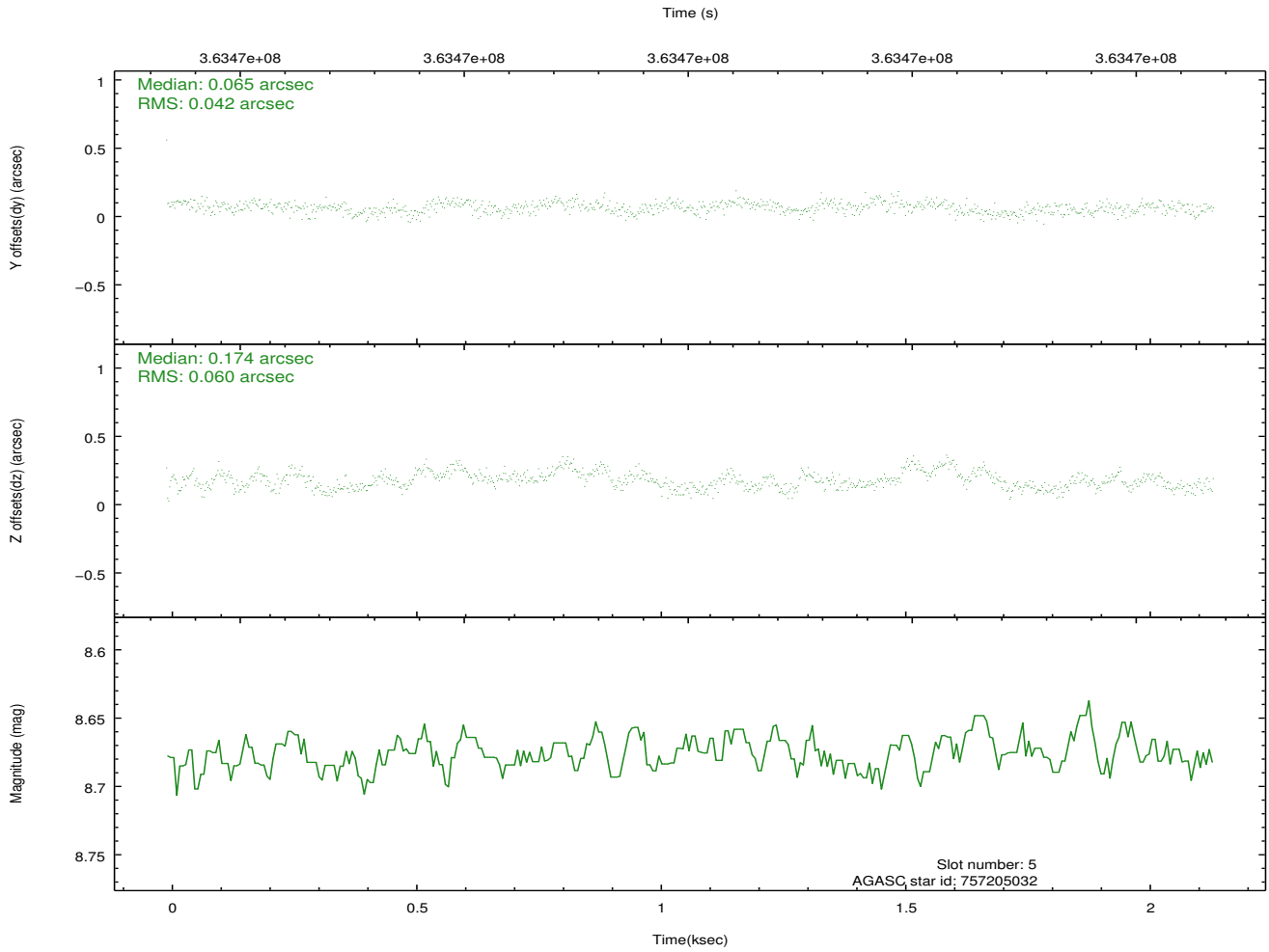
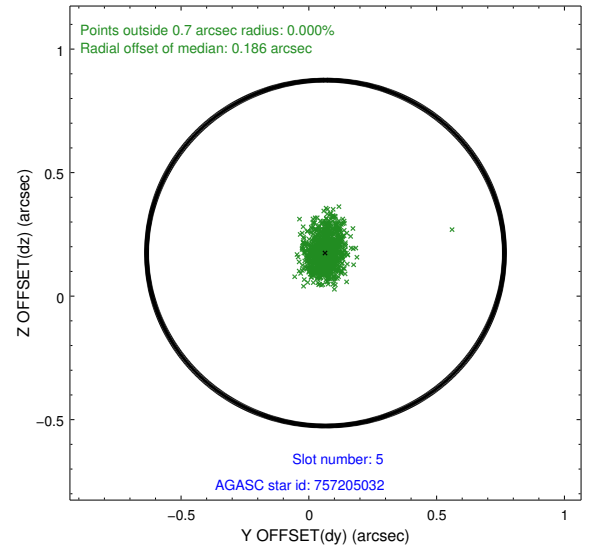
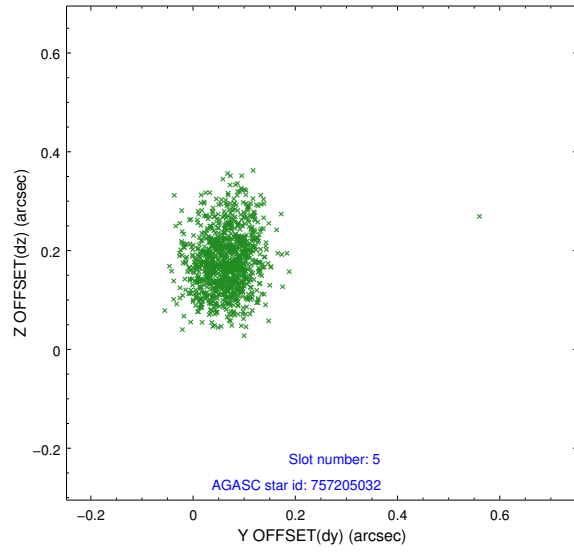
2.4.1 Slot 3



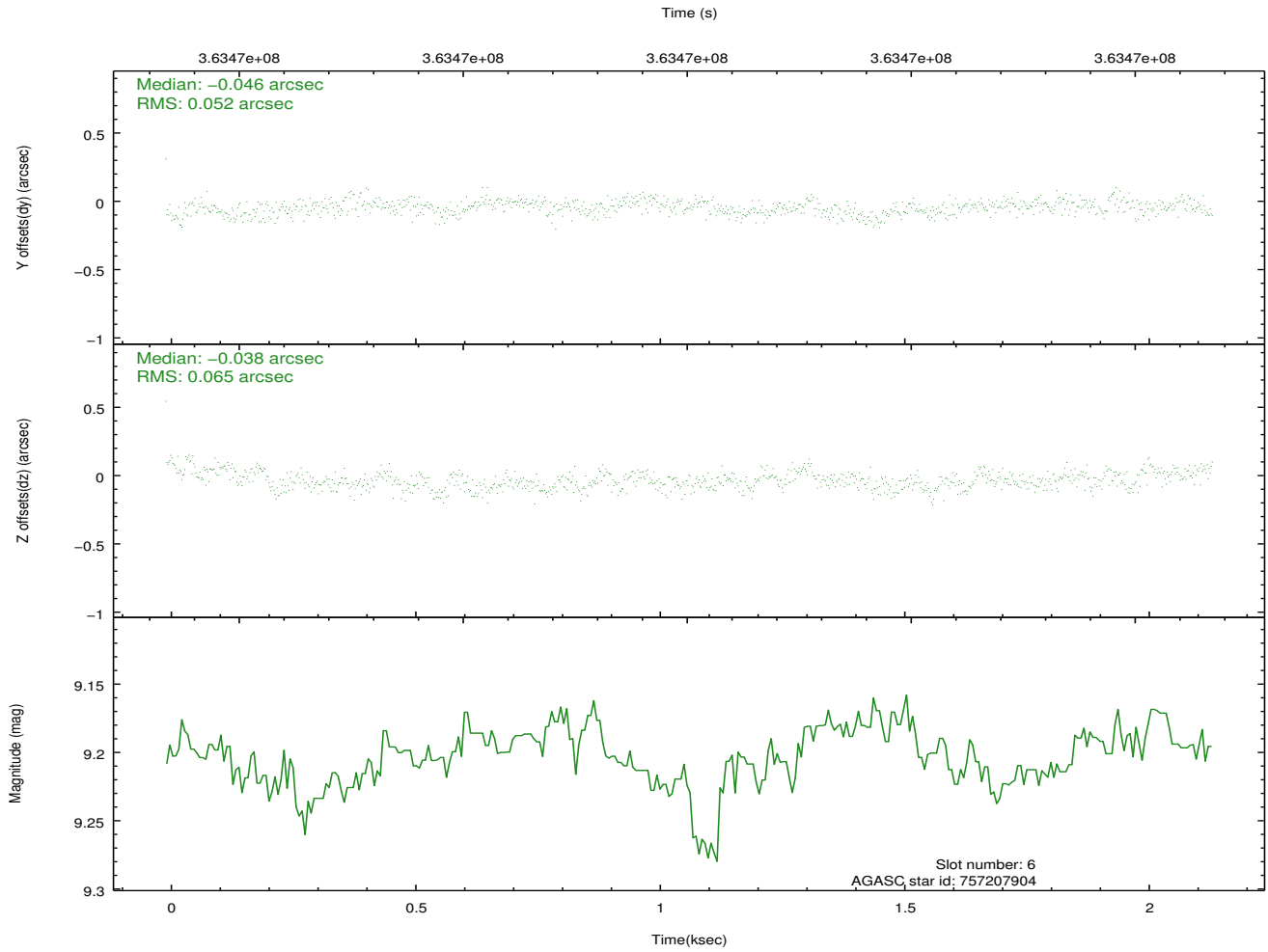
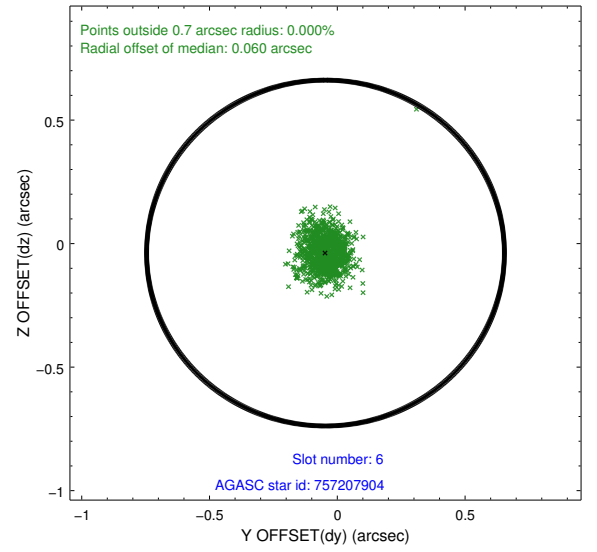
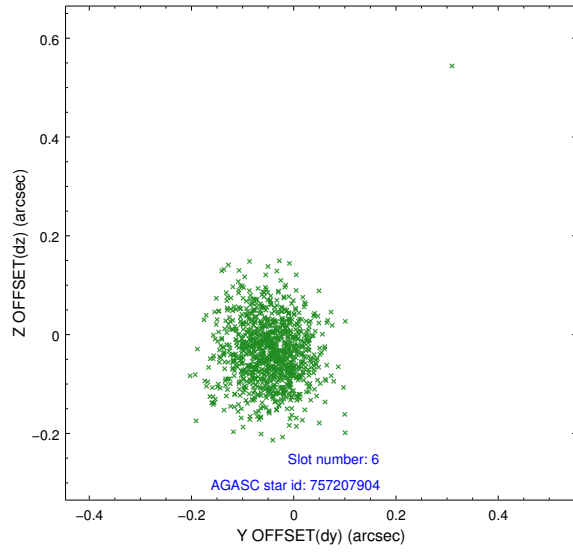
2.4.2 Slot 4



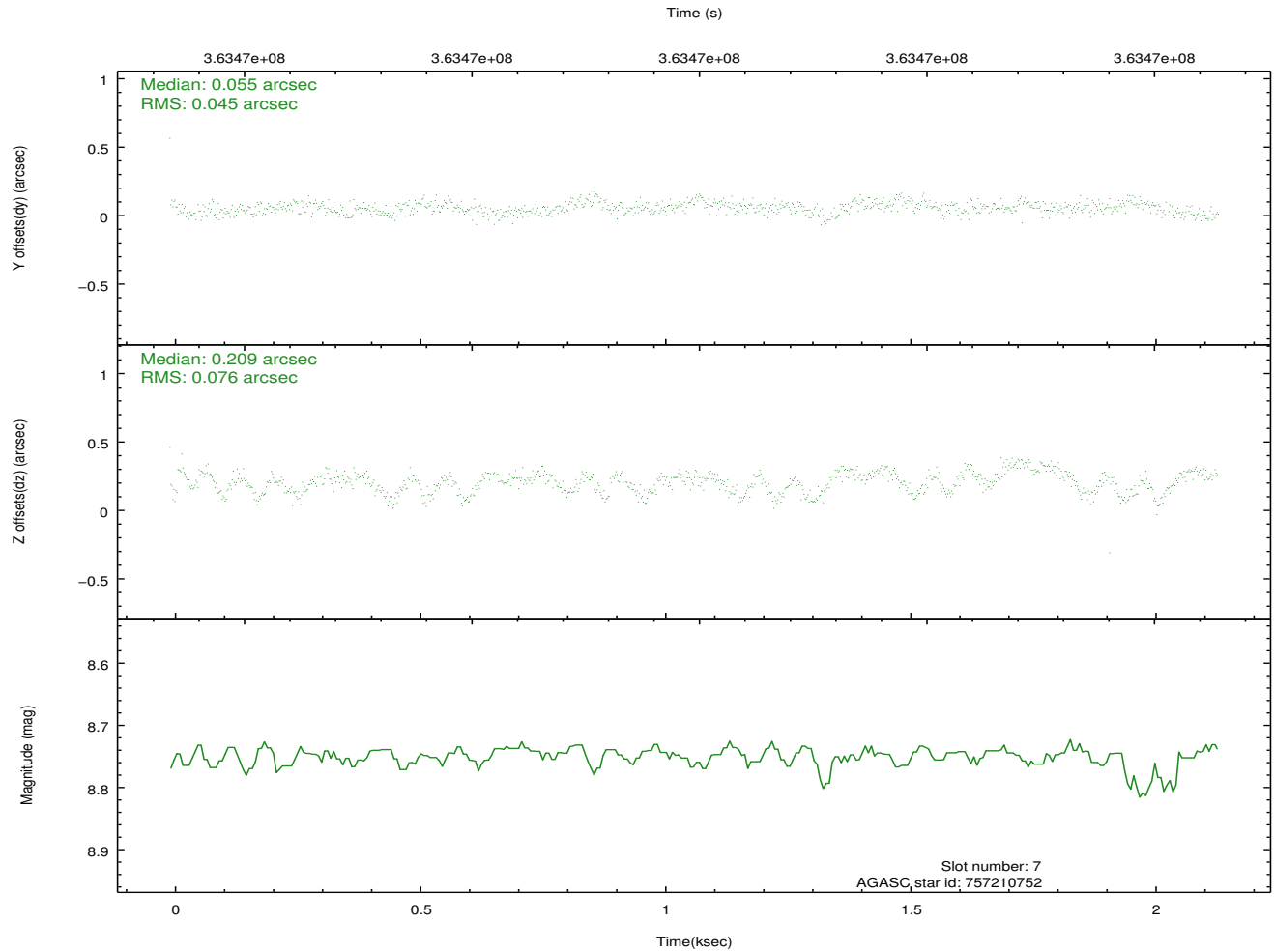
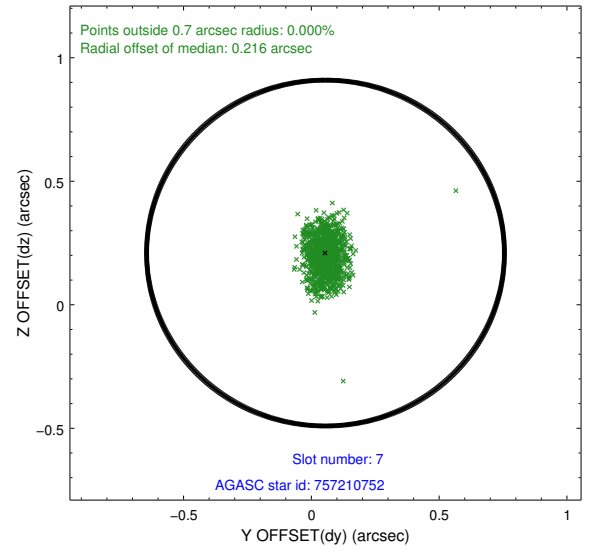
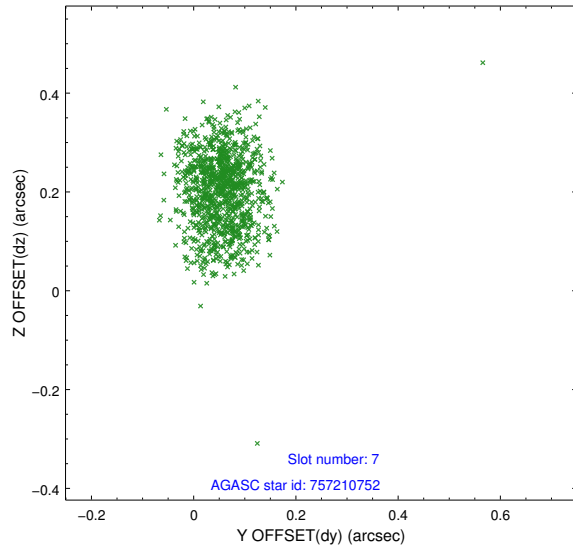
2.4.3 Slot 5



2.4.4 Slot 6

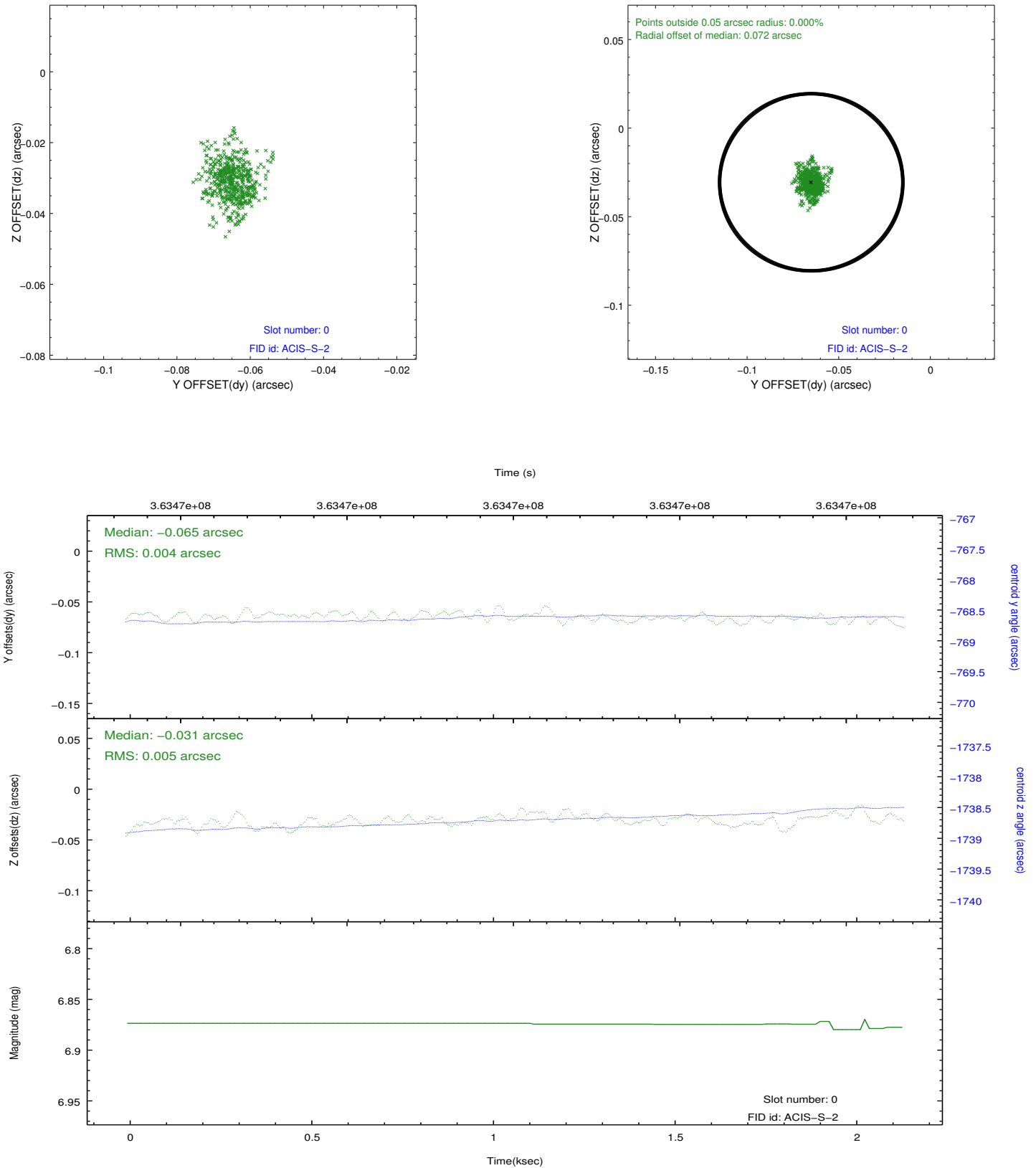


2.4.5 Slot 7

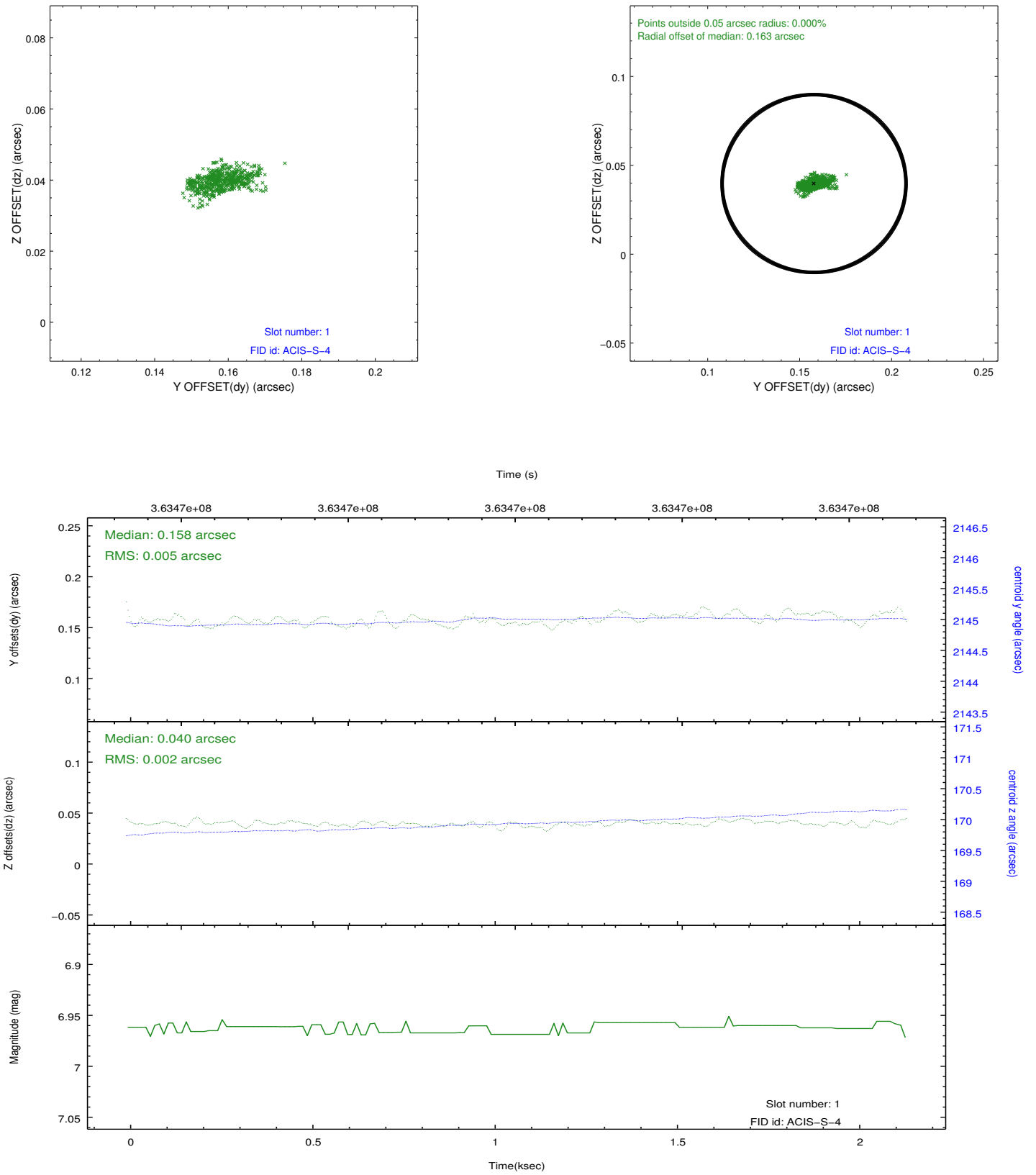


2.5 FID Slots

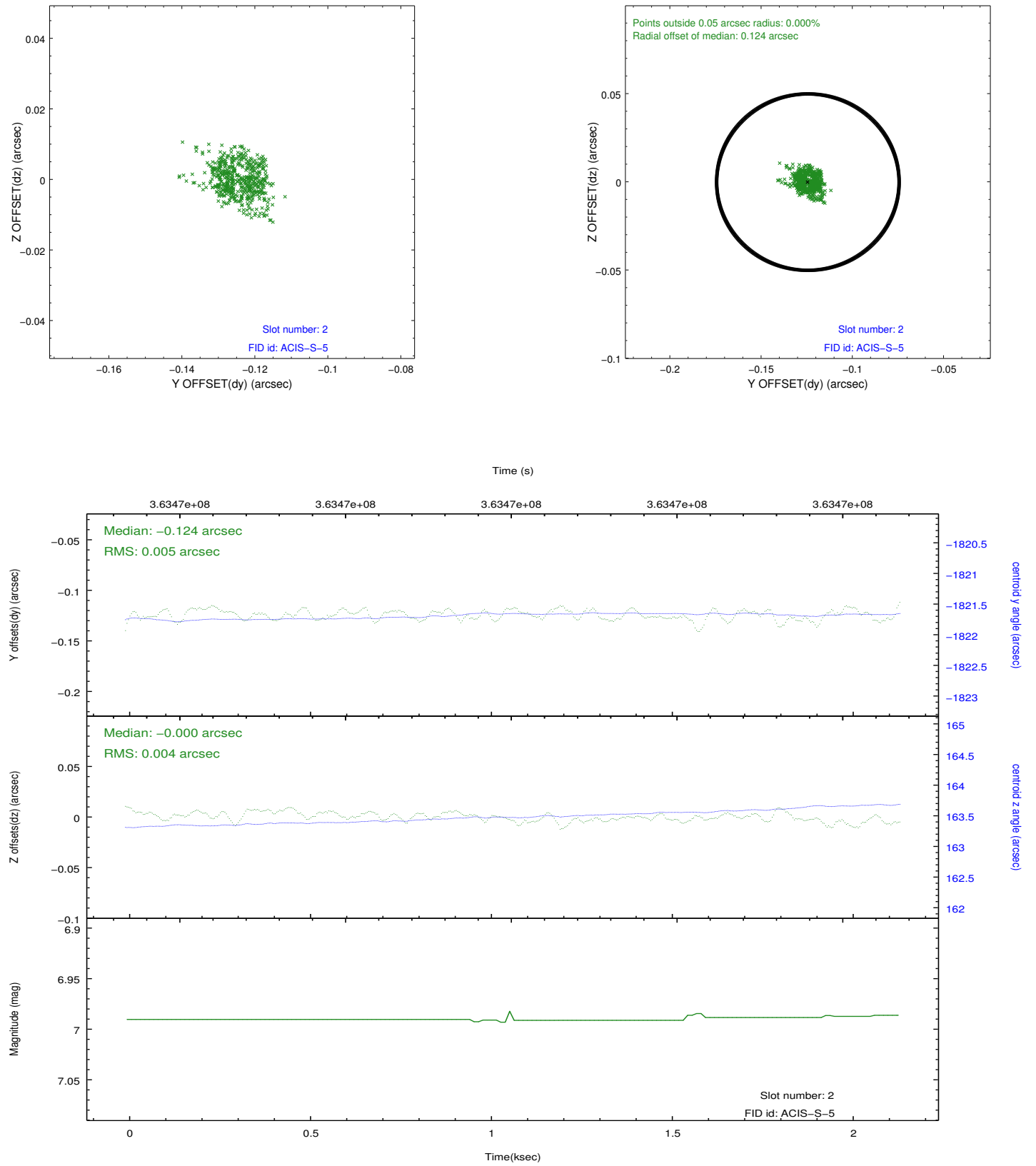
2.5.1 Slot 0



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	2.13590001

A.2 Comments