

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 11317 - L2 Version 2
Chandra X-Ray Center

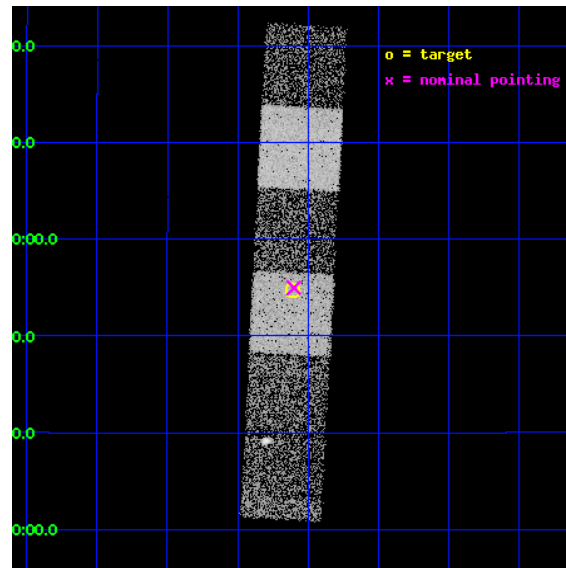
L2 Processing Date : Jun 22 2012

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1 Front

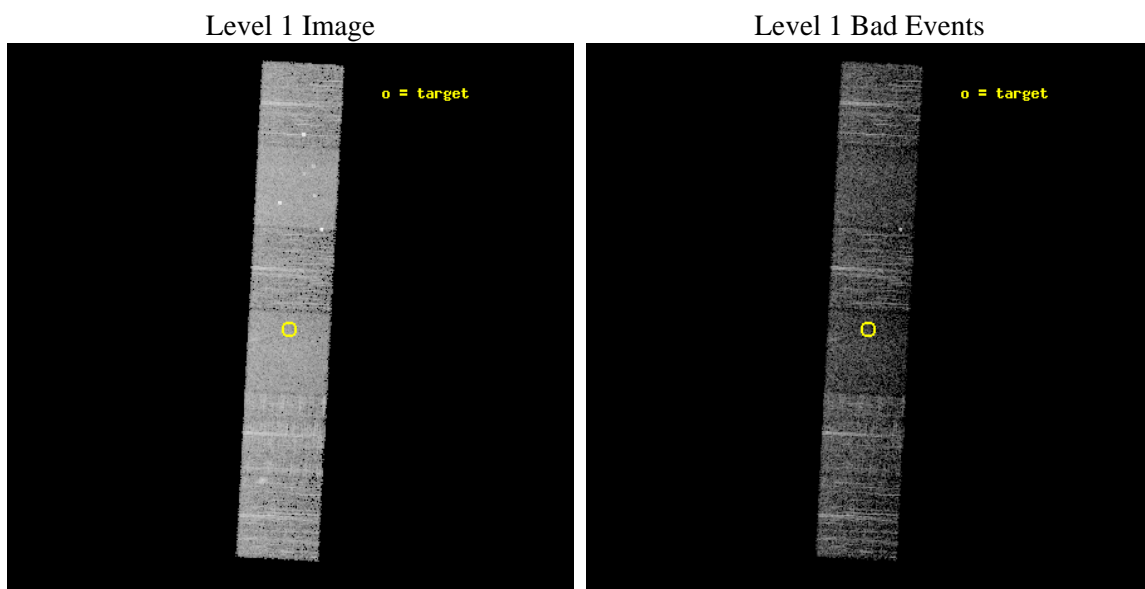
seq_num	600836	Sequence number
obs_id	11317	Observation id
title	Accretion onto nuclear black holes in early type galaxies: comparing field vs. clusters	Proposal title
observer	Elena Gallo	Principal investigator
object	NGC4733	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	192.778	Observer's specified target RA [deg]
dec_targ	10.91208	Observer's specified target Dec [deg]
ra_nom	192.77506525772	Nominal RA [deg]
dec_nom	10.91614952057	Nominal Dec [deg]
roll_nom	93.039040861353	Nominal Roll [deg]
revision	2	Processing version of data
ontime	3259.375148356	Sum of GTIs [s]
livetime	3218.1029776674	Livetime [s]
ontime4	3259.4161883593	Sum of GTIs [s]
ontime5	3259.3341083527	Sum of GTIs [s]
ontime6	3259.2930683494	Sum of GTIs [s]
ontime7	3259.375148356	Sum of GTIs [s]
ontime8	3252.7699978352	Sum of GTIs [s]
ontime9	3259.2109883428	Sum of GTIs [s]
l2events	43272	Number of level 2 events



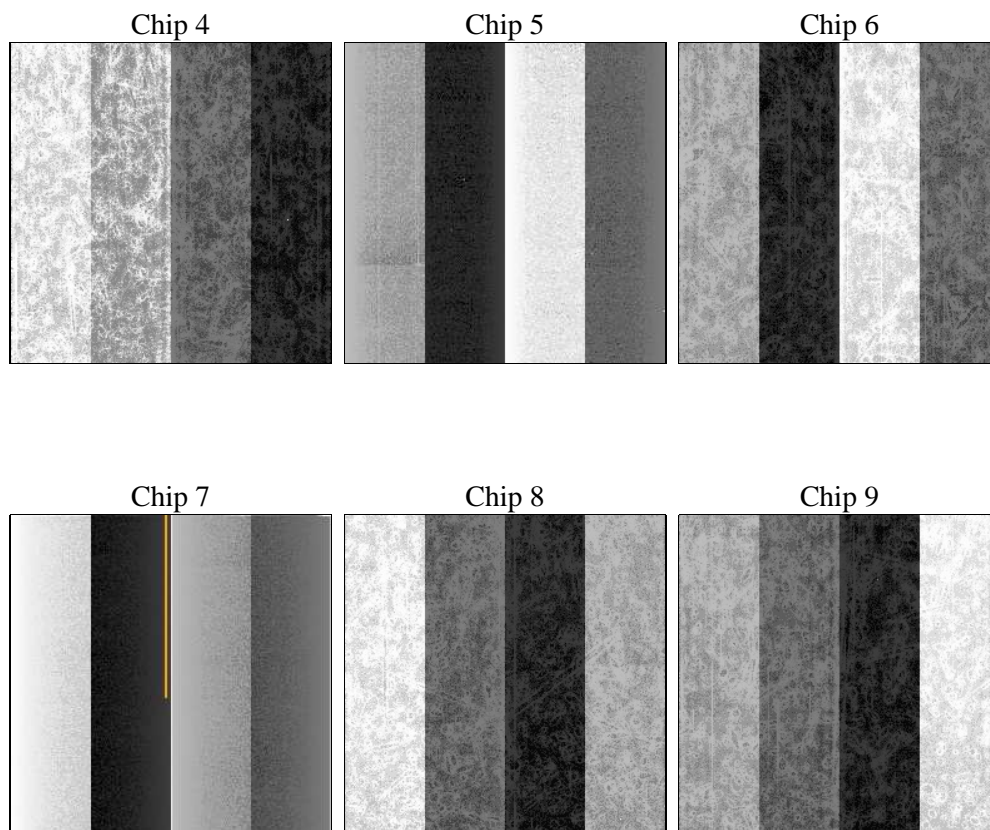
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3500.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	3259.375148356	Sum of GTIs [s]
caldsver	4.4.10	 	ontime4	3259.4161883593	Sum of GTIs [s]
date	2012-06-22T03:25:45	Date and time of file creation	ontime5	3259.3341083527	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	3259.2930683494	Sum of GTIs [s]
			ontime7	3259.375148356	Sum of GTIs [s]
			ontime8	3252.7699978352	Sum of GTIs [s]
			ontime9	3259.2109883428	Sum of GTIs [s]
			l1events	197041	Number of level 1 events

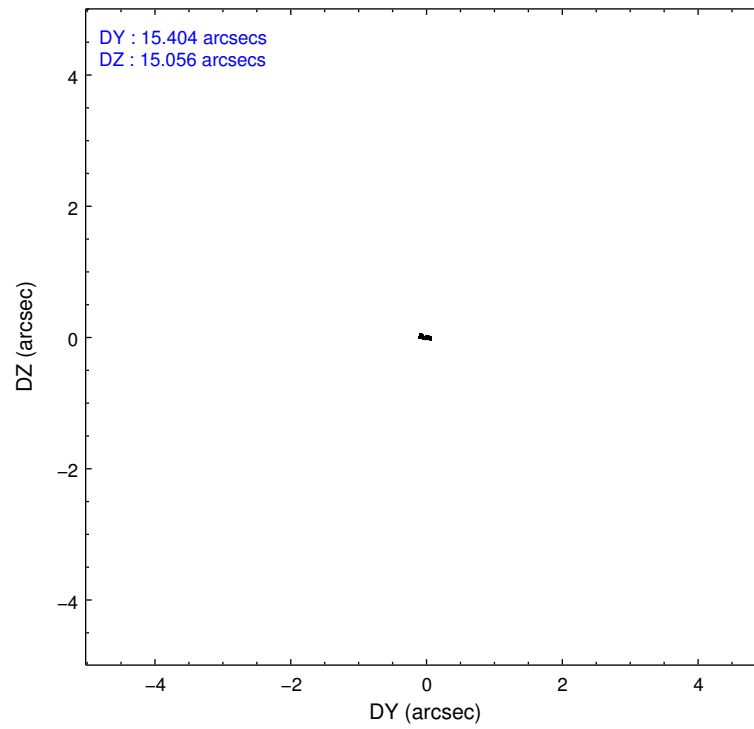
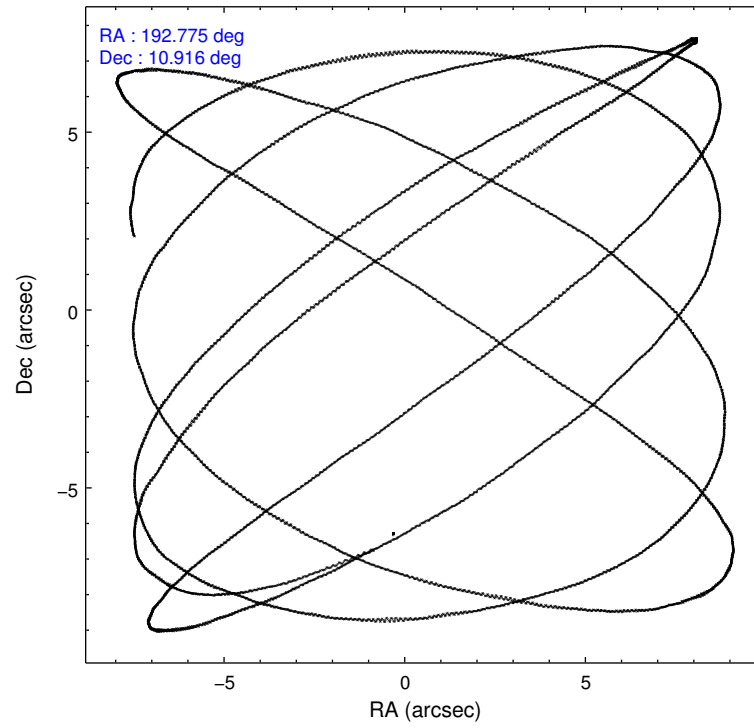
2.1.4 Events

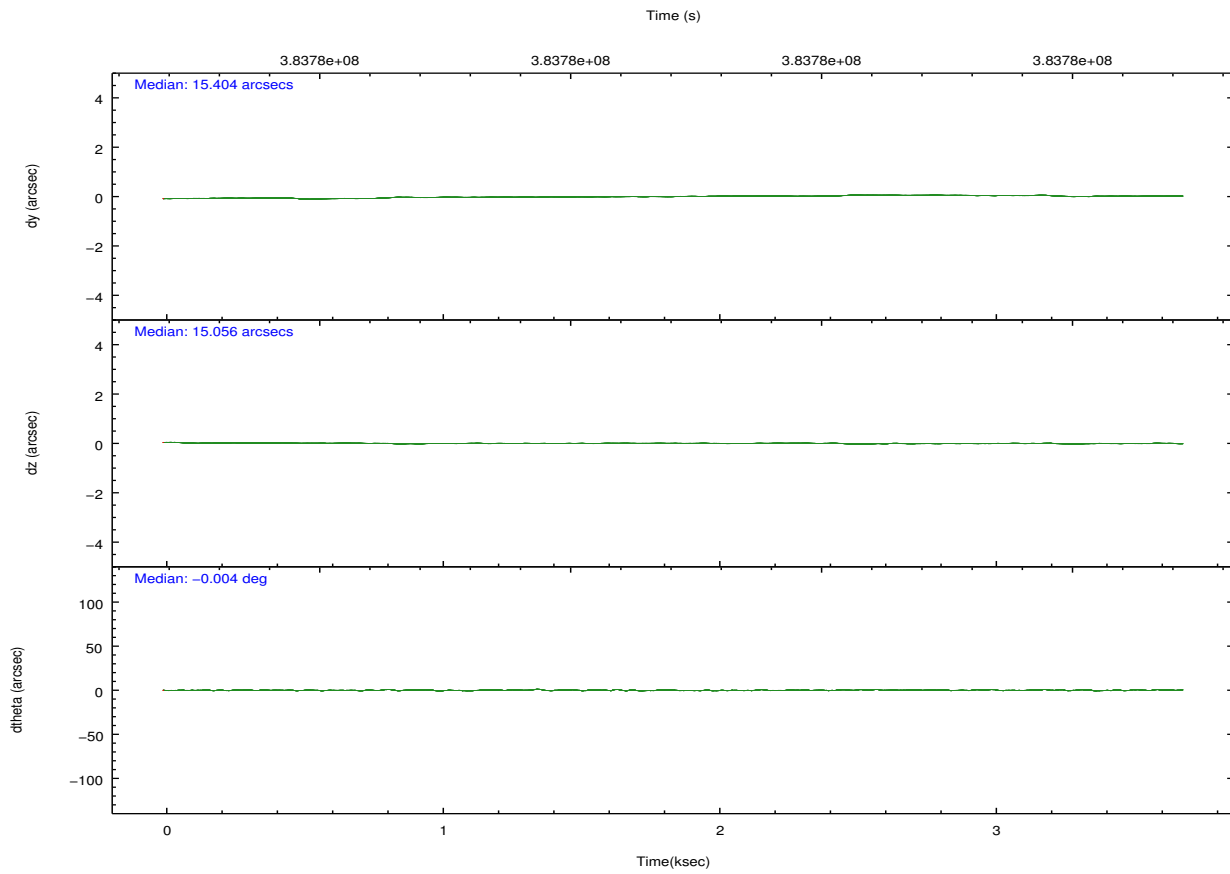
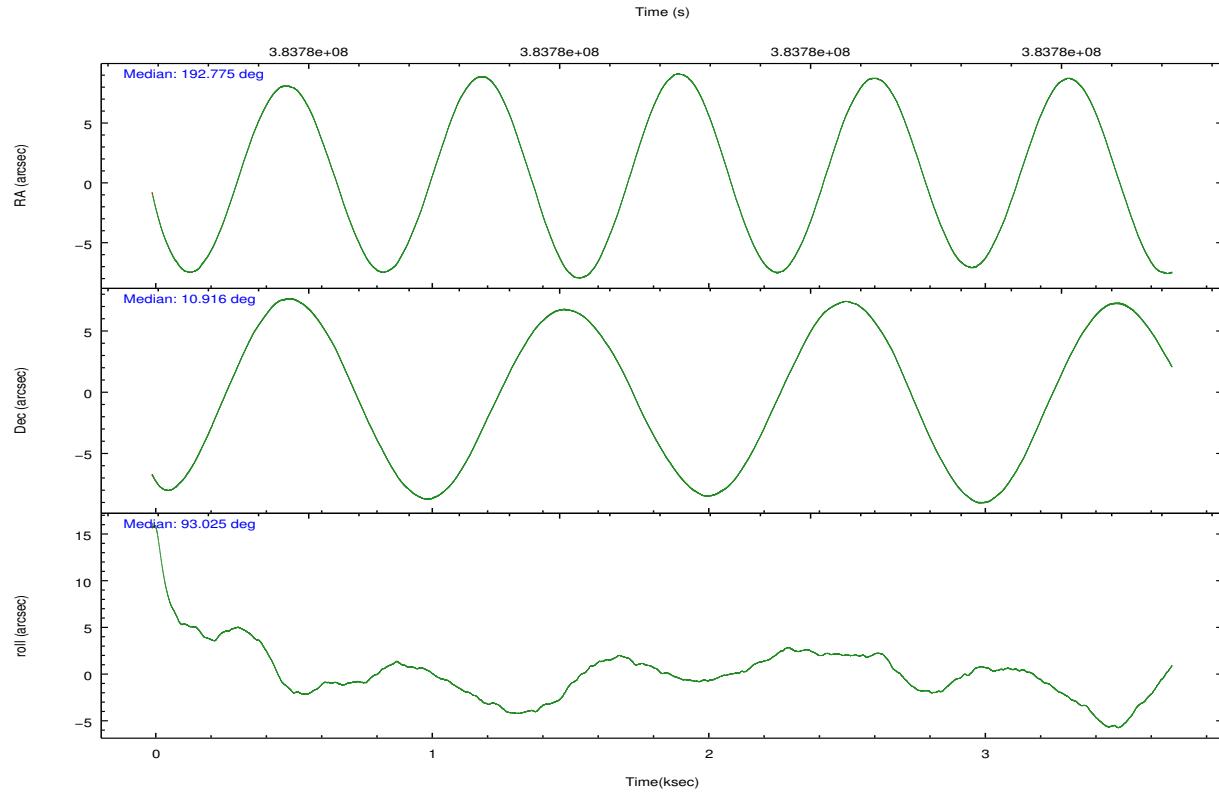
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	31418	41127	27865	31665	37140	27826	grade 0 events	1816	2562	1049	1421	2679	1612
rejected events	27722	20353	24999	17262	28166	24206		5%	6%	3%	4%	7%	5%
rejected %	88%	49%	89%	54%	75%	86%	grade 1 events	30	165	12	37	44	21
								0%	0%	0%	0%	0%	0%
							grade 2 events	706	5958	644	2892	2064	716
								2%	14%	2%	9%	5%	2%
							grade 3 events	361	871	299	1277	968	303
								1%	2%	1%	4%	2%	1%
							grade 4 events	321	838	259	1269	916	363
								1%	2%	0%	4%	2%	1%
							grade 5 events	1135	3113	1123	3390	1626	1298
								3%	7%	4%	10%	4%	4%
							grade 6 events	495	10571	617	7559	2368	631
								1%	25%	2%	23%	6%	2%
							grade 7 events	26554	17049	23862	13820	26475	22882
								84%	41%	85%	43%	71%	82%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-456789	ACIS-456789	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	192.790685	192.7750652577153	CCD I2 on	N	N
[deg] Pointing Dec	10.893343	10.91614952057046	CCD I3 on	N	N
[deg] Pointing Roll	92.879428	93.0390408613534	CCD S0 on	O1	Y
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	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)	383777744.184000	383777090.06926	CCD S5 on	O2	Y
Observation start date	2010-02-28T20:54:38	2010-02-28T20:44:50	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	383781244.184000	383781462.20698	On-chip summing requested	N	N
Observation end date	2010-02-28T21:52:58	2010-02-28T21:57:42	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



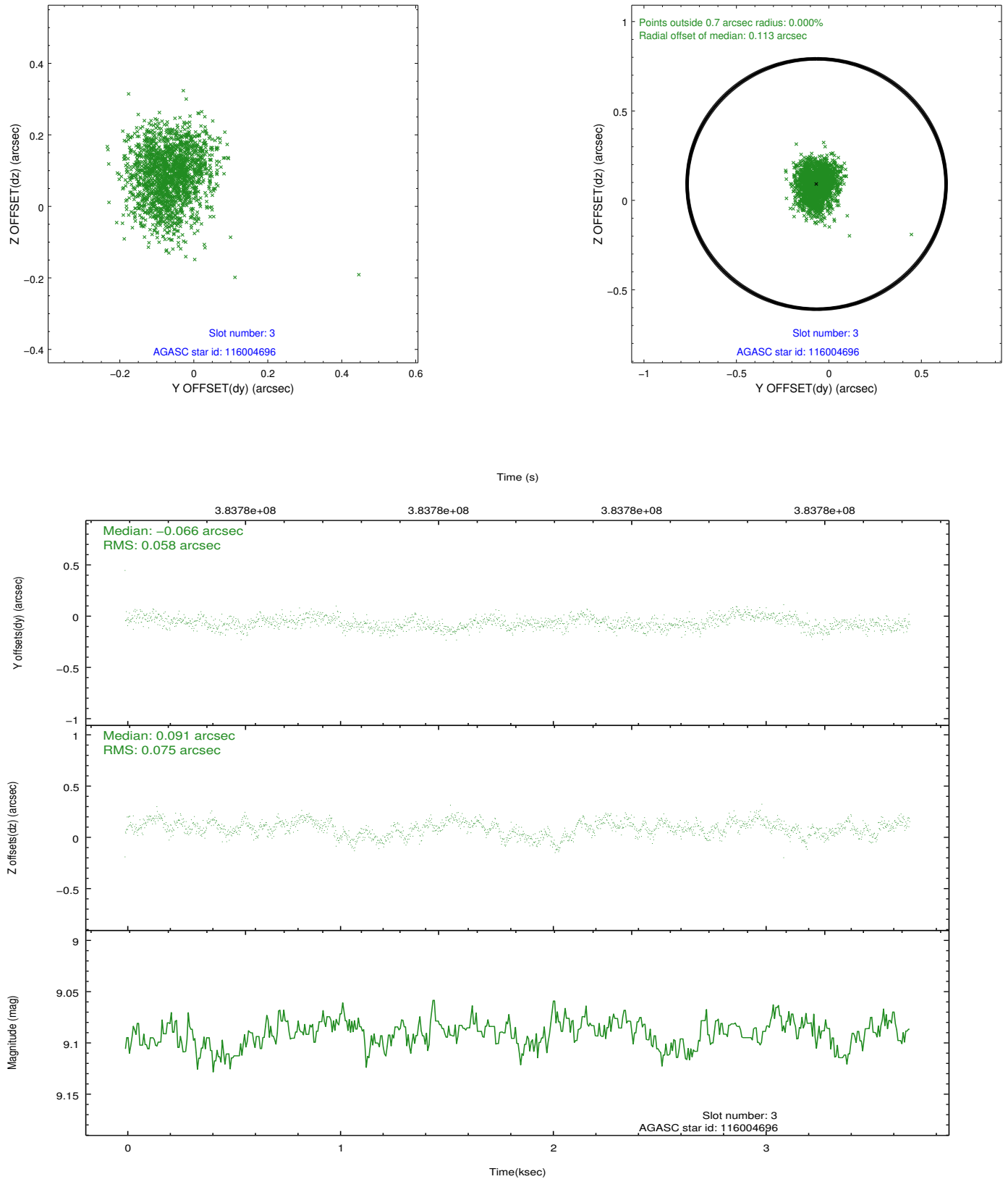


Slot Statistics

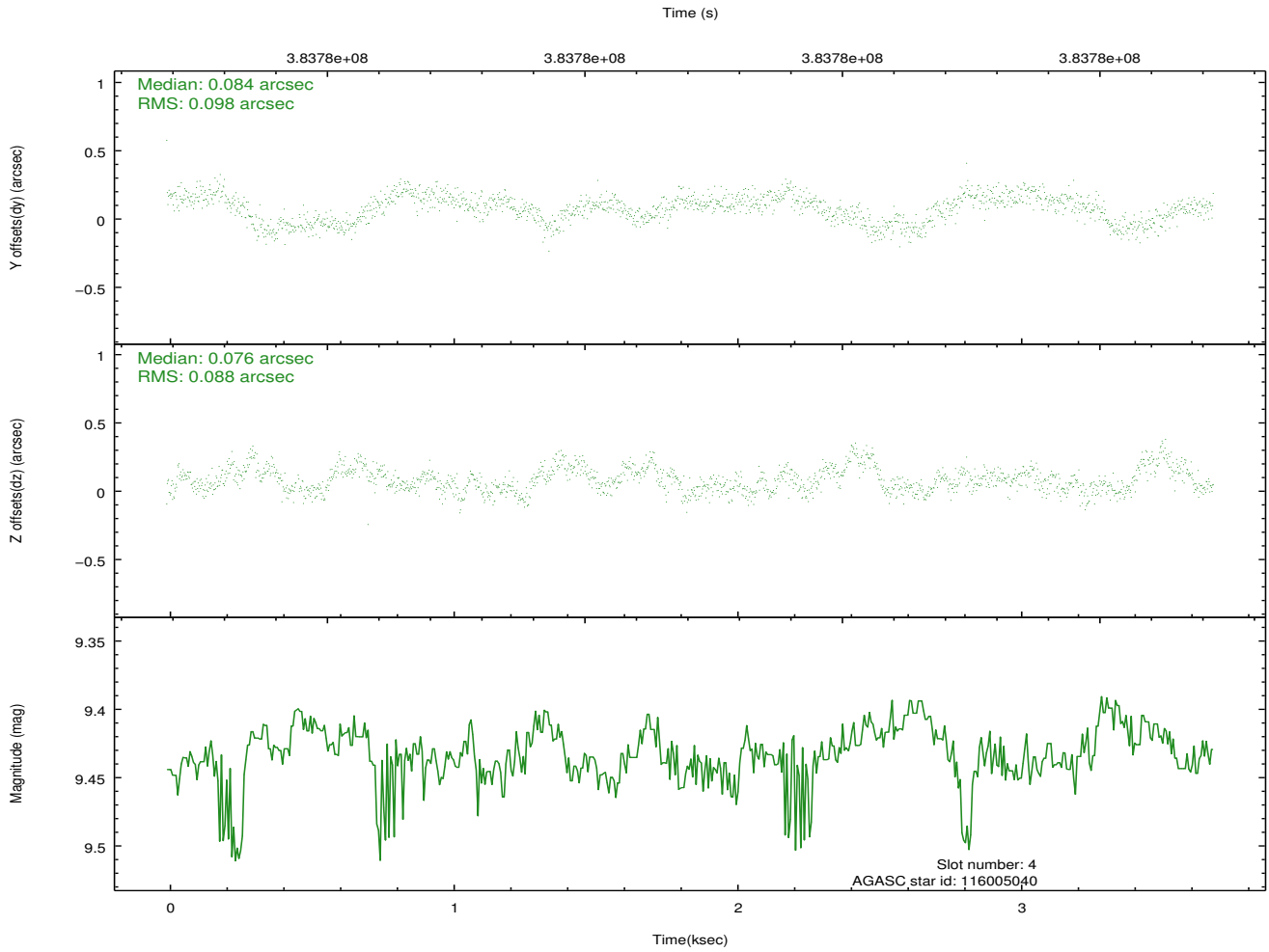
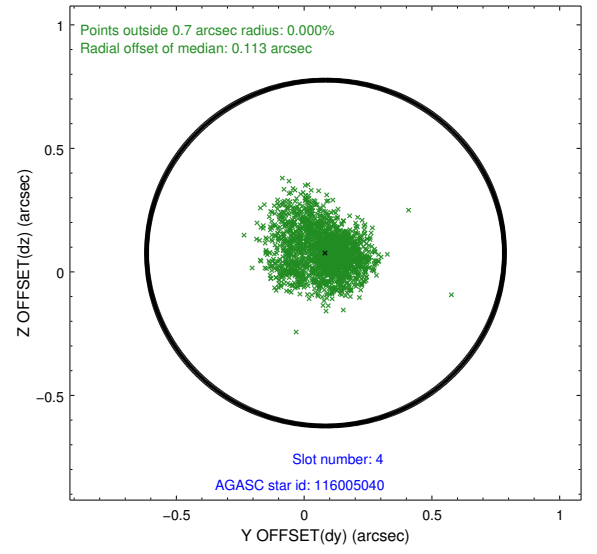
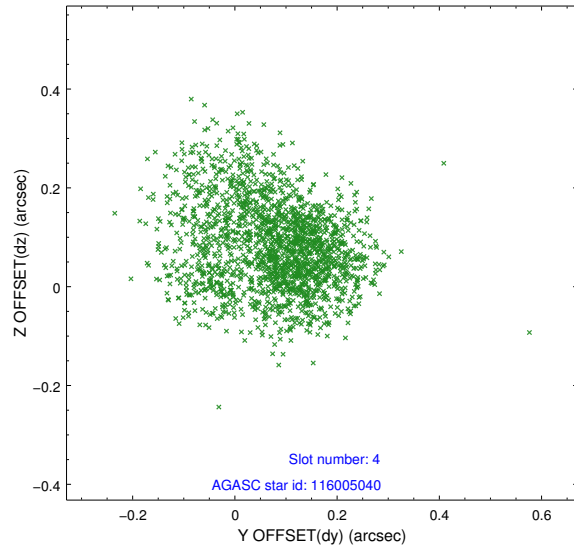
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.91	900	-0.096	-0.029	0.006	0.010	0.000000	0.000000	-768.46	-1736.47
1	FID	ACIS-S-4	6.99	900	0.193	0.054	0.005	0.011	0.000000	0.000000	2144.31	170.35
2	FID	ACIS-S-5	7.02	900	-0.129	-0.016	0.006	0.011	0.000000	0.000000	-1819.17	165.86
3	GUIDE	116004696	9.09	1799	-0.066	0.091	0.101	0.157	193.280153	11.219447	1087.42	-1785.00
4	GUIDE	116005040	9.43	1796	0.084	0.076	0.142	0.228	193.170570	11.209691	1072.17	-1398.03
5	GUIDE	116006624	9.81	1800	-0.014	-0.097	0.180	0.296	192.349123	10.989421	425.18	1539.83
6	GUIDE	116006760	9.29	1790	0.039	-0.078	0.110	0.178	192.469200	10.995733	425.80	1116.49
7	GUIDE	116007520	9.60	1787	-0.039	-0.016	0.144	0.236	193.127125	11.446262	1929.58	-1285.07

2.4 Star Slots

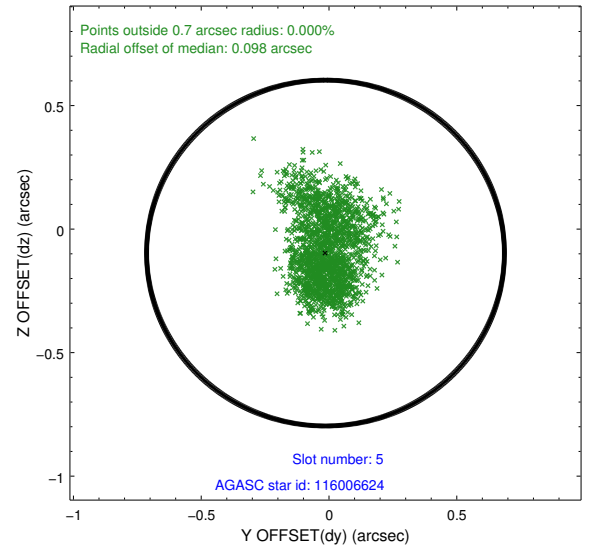
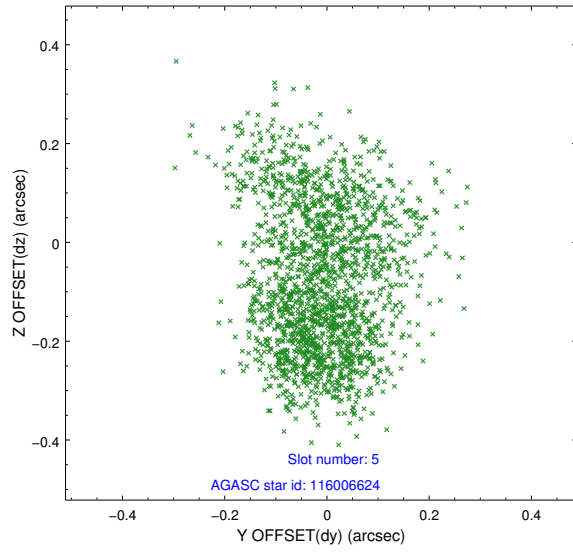
2.4.1 Slot 3



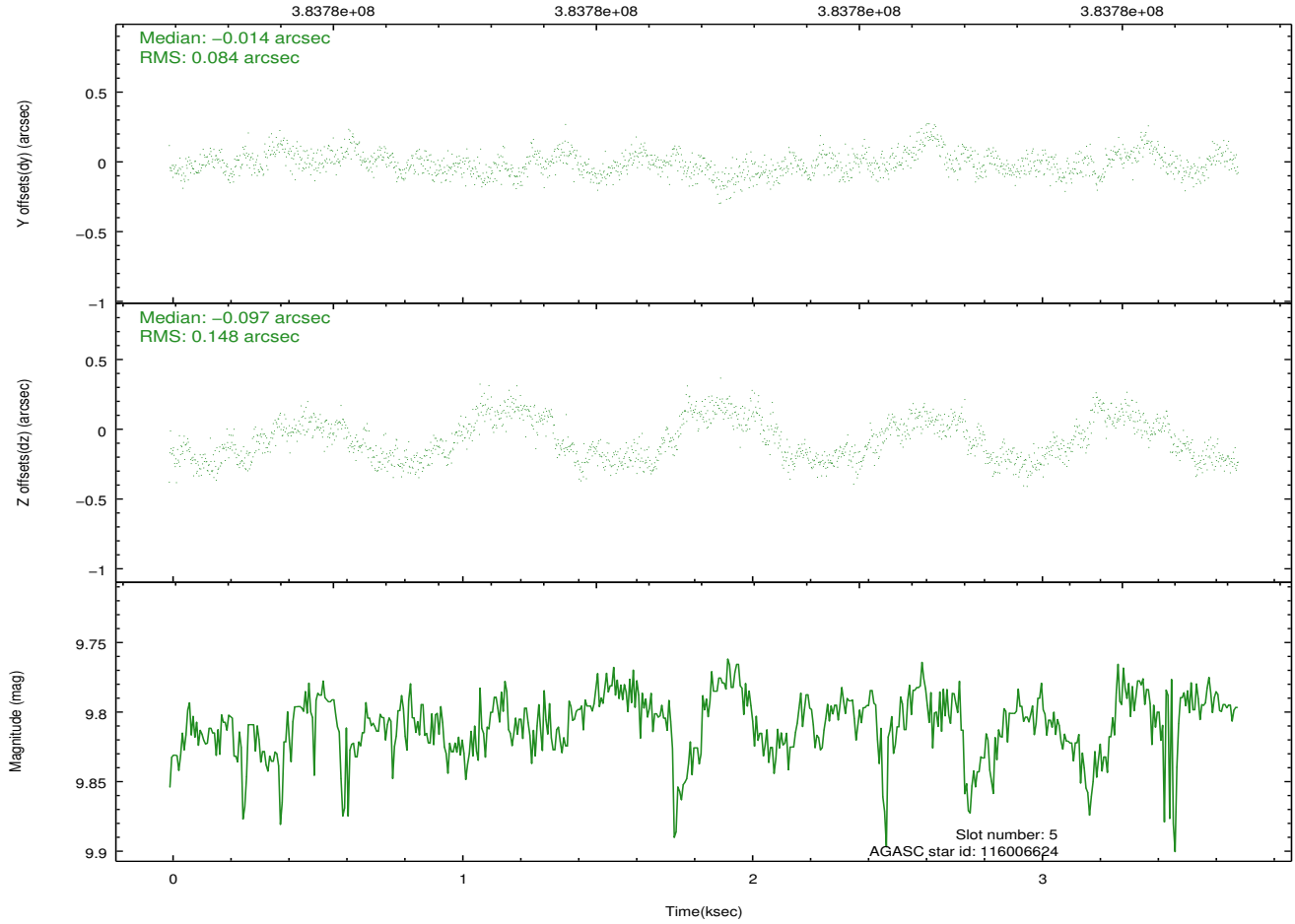
2.4.2 Slot 4



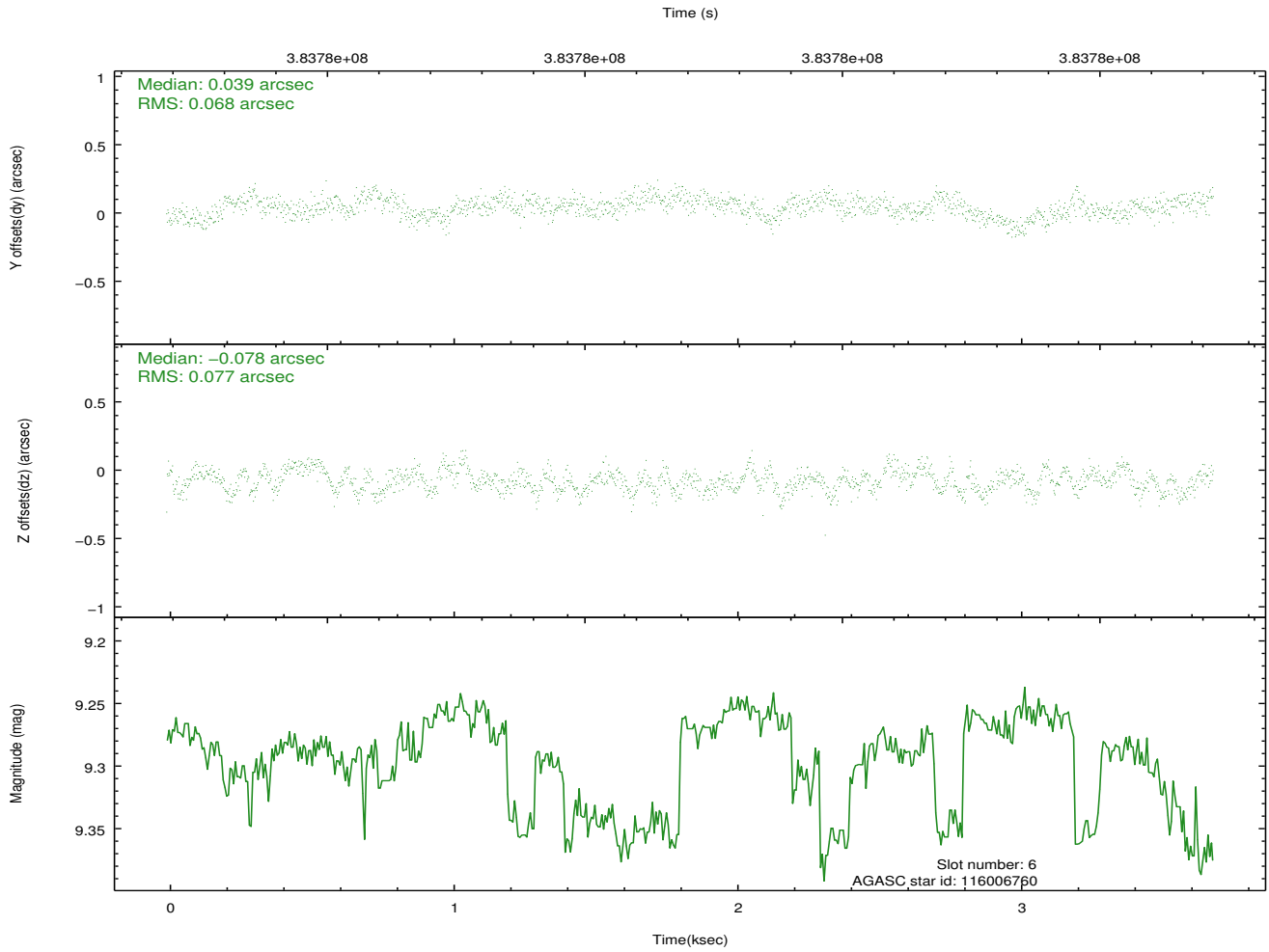
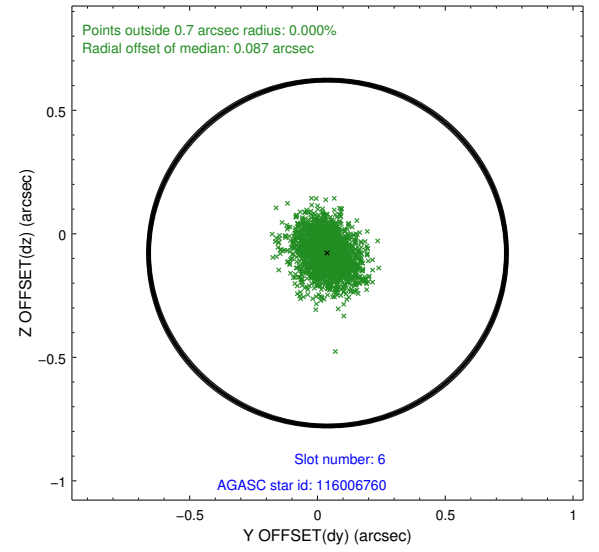
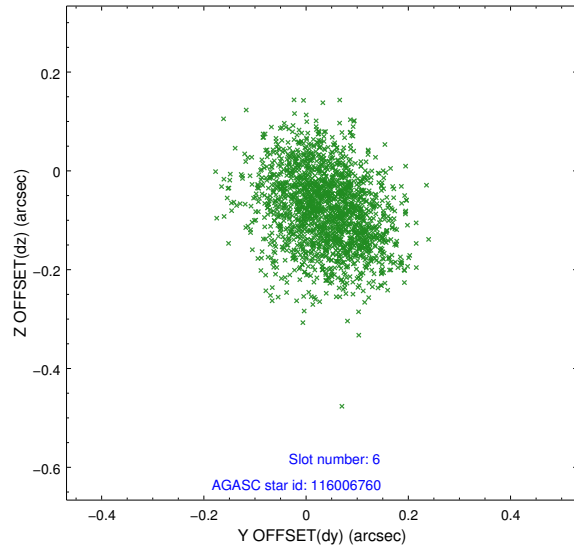
2.4.3 Slot 5



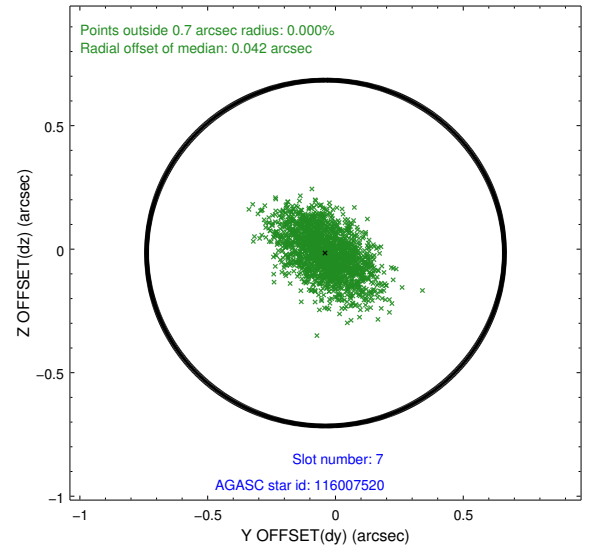
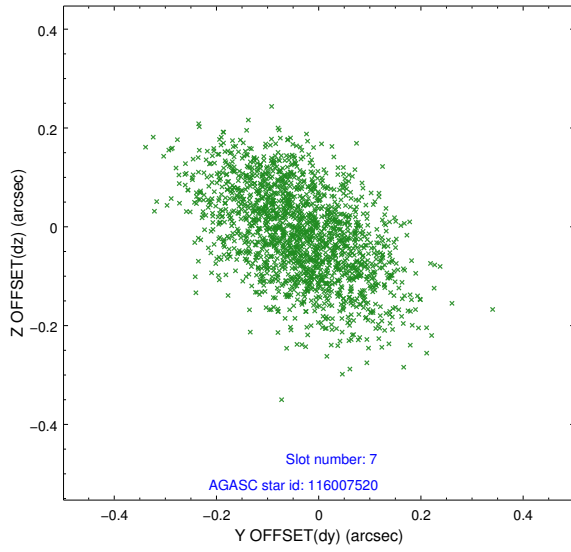
Time (s)



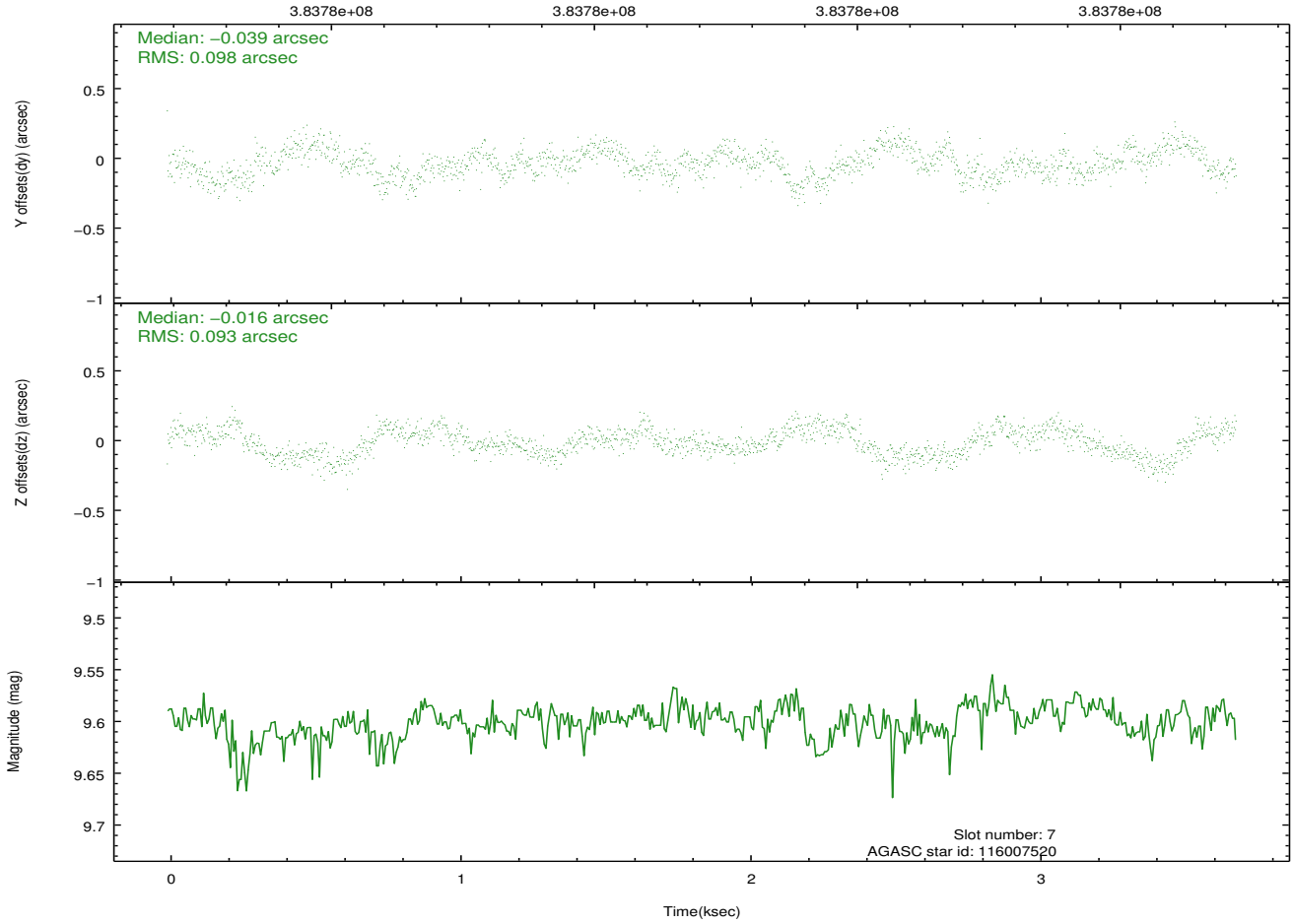
2.4.4 Slot 6



2.4.5 Slot 7

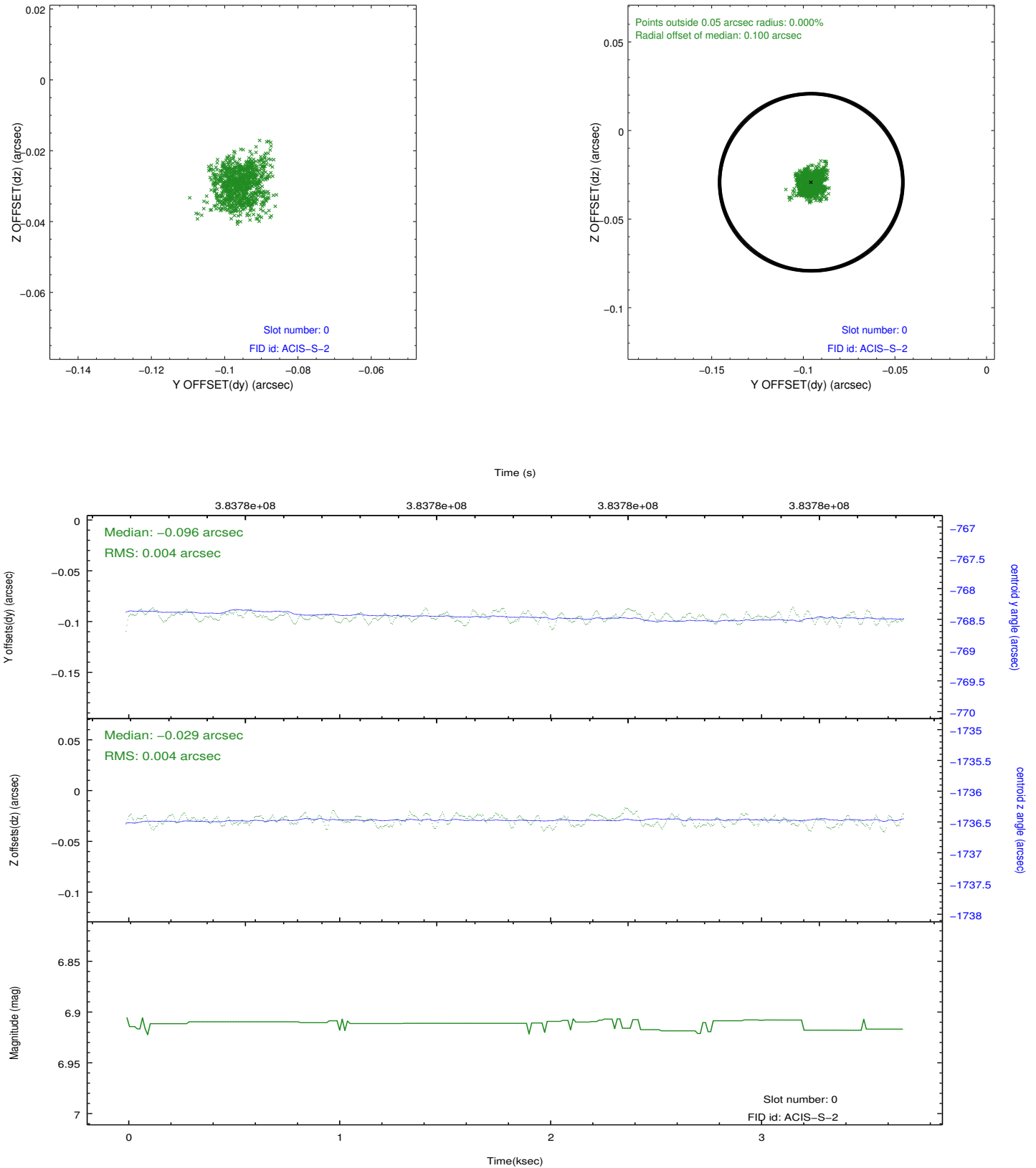


Time (s)

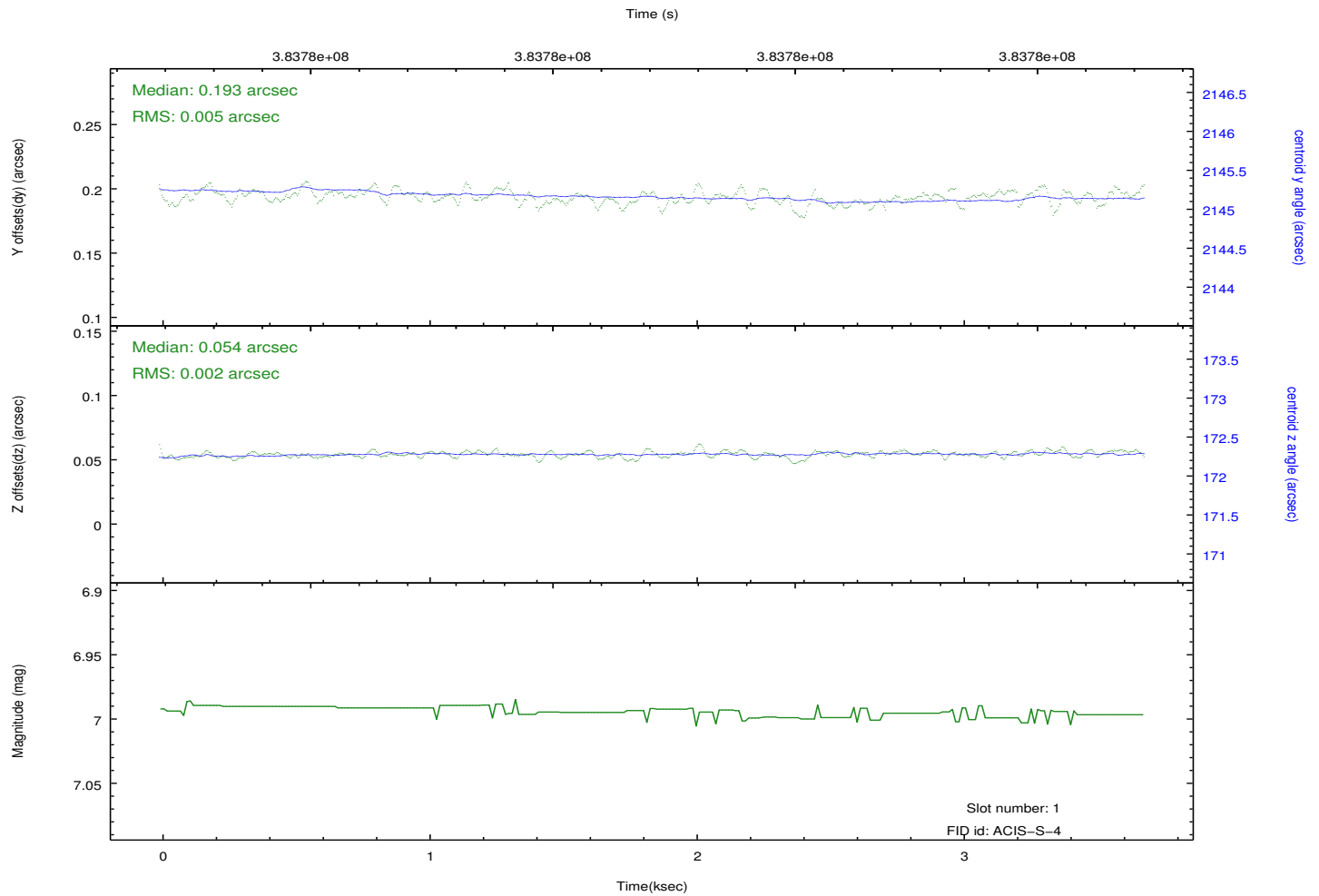
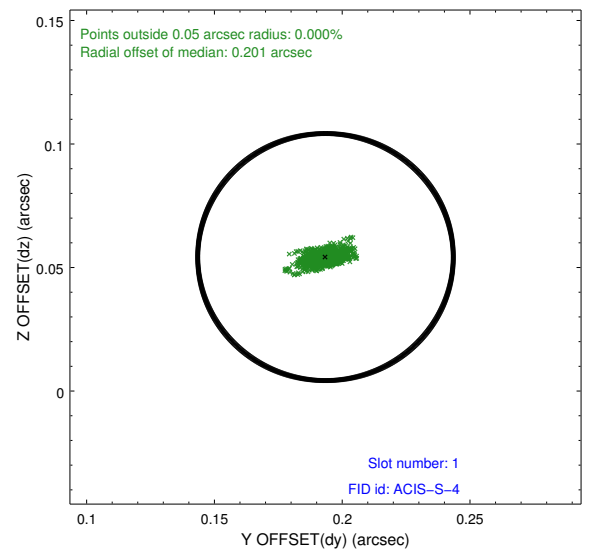
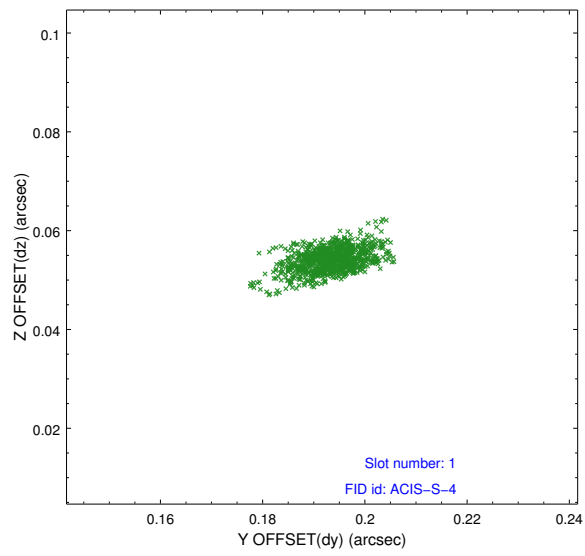


2.5 FID Slots

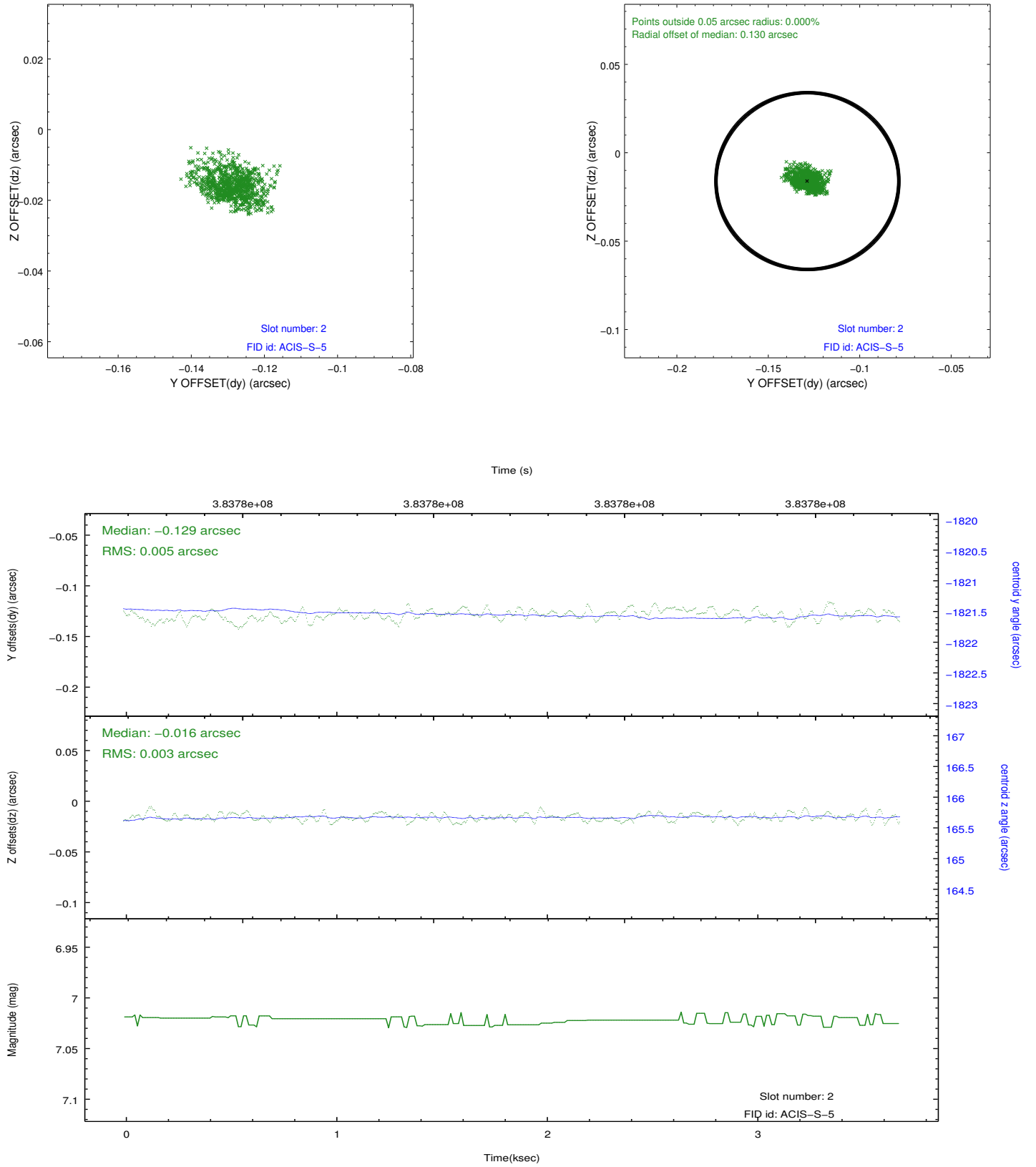
2.5.1 Slot 0



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)	2012.06.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.2593751509786

A.2 Comments