

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 18442 - L2 Version 1
Chandra X-Ray Center

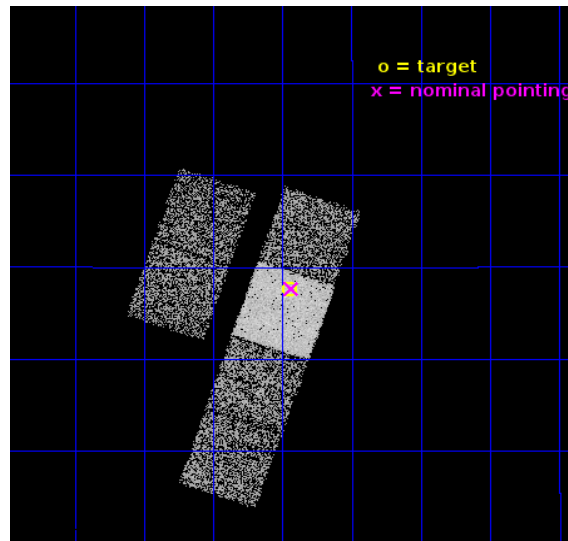
L2 Processing Date : Jun 9 2016

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1 Front

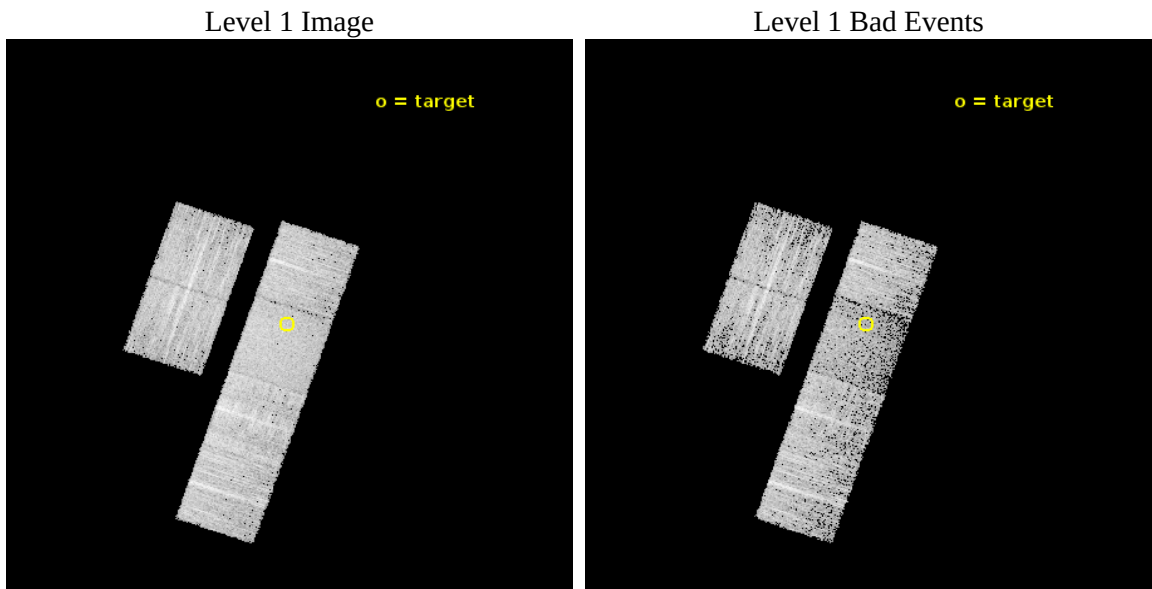
seq_num	703281	Sequence number
obs_id	18442	Observation id
title	Deciphering the X-ray Enhancement of Highly Radio-Loud Quasars in the Early Universe	Proposal title
observer	Gordon Garmire	Principal investigator
object	SDSS J003126.79+150739.5	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	7.861667	Observer's specified target RA [deg]
dec_targ	15.127639	Observer's specified target Dec [deg]
ra_nom	7.8589540197415	Nominal RA [deg]
dec_nom	15.127589146583	Nominal Dec [deg]
roll_nom	108.93297899505	Nominal Roll [deg]
revision	1	Processing version of data
ontime	5422.9980016947	Sum of GTIs [s]
livetime	5354.3287356599	Livetime [s]
ontime2	5422.8338416815	Sum of GTIs [s]
ontime3	5422.9159216881	Sum of GTIs [s]
ontime6	5422.9569616318	Sum of GTIs [s]
ontime7	5422.9980016947	Sum of GTIs [s]
ontime8	5422.8748816252	Sum of GTIs [s]
ontime9	5423.0390416384	Sum of GTIs [s]
l2events	32340	Number of level 2 events



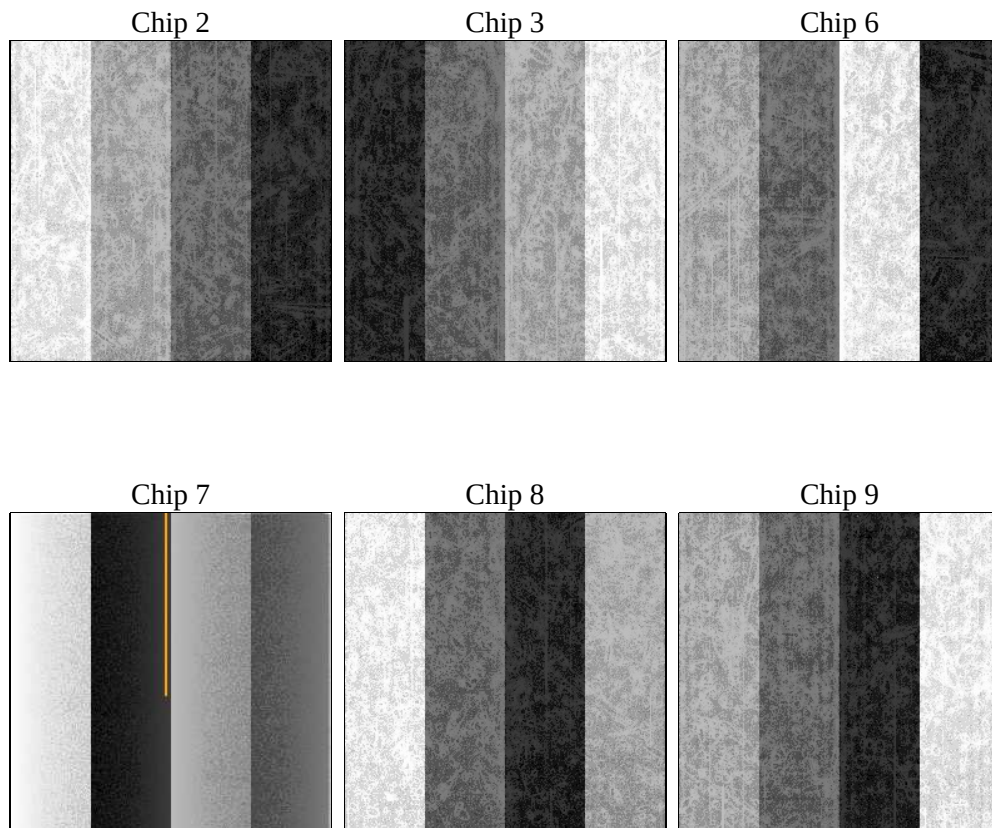
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5500.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	5422.9980016947	Sum of GTIs [s]
caldbver	4.7.2	 	ontime2	5422.8338416815	Sum of GTIs [s]
date	2016-06-09T23:07:30	Date and time of file creation	ontime3	5422.9159216881	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	5422.9569616318	Sum of GTIs [s]
			ontime7	5422.9980016947	Sum of GTIs [s]
			ontime8	5422.8748816252	Sum of GTIs [s]
			ontime9	5423.0390416384	Sum of GTIs [s]
			l1events	219696	Number of level 1 events

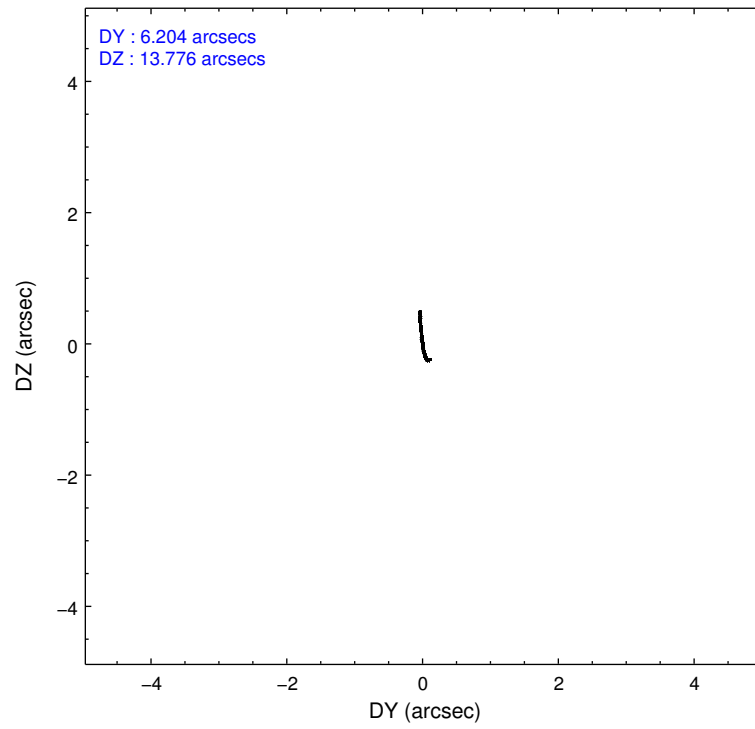
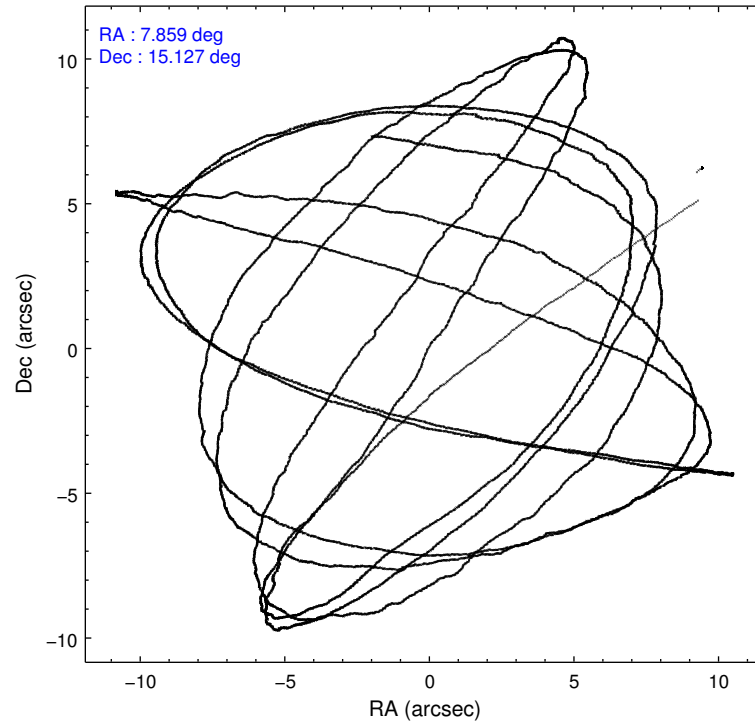
2.1.4 Events

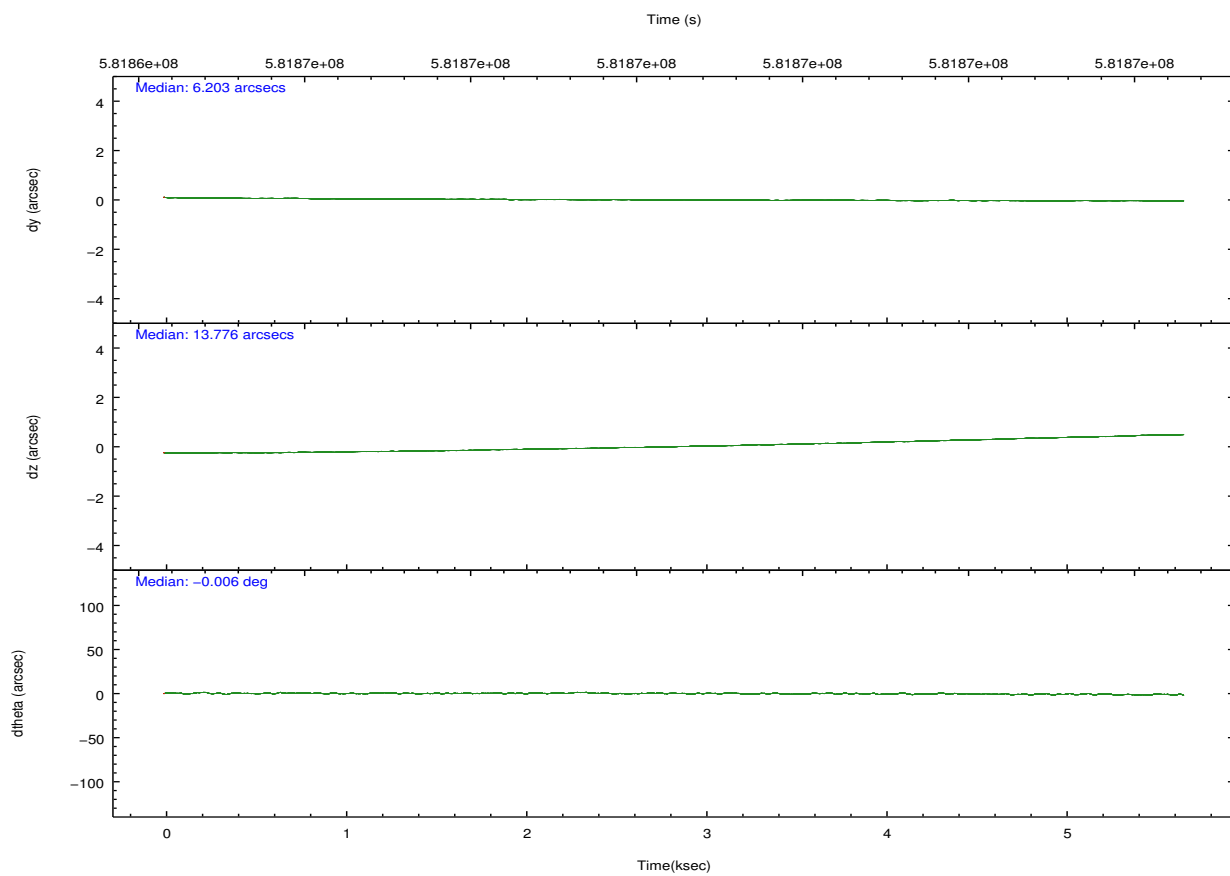
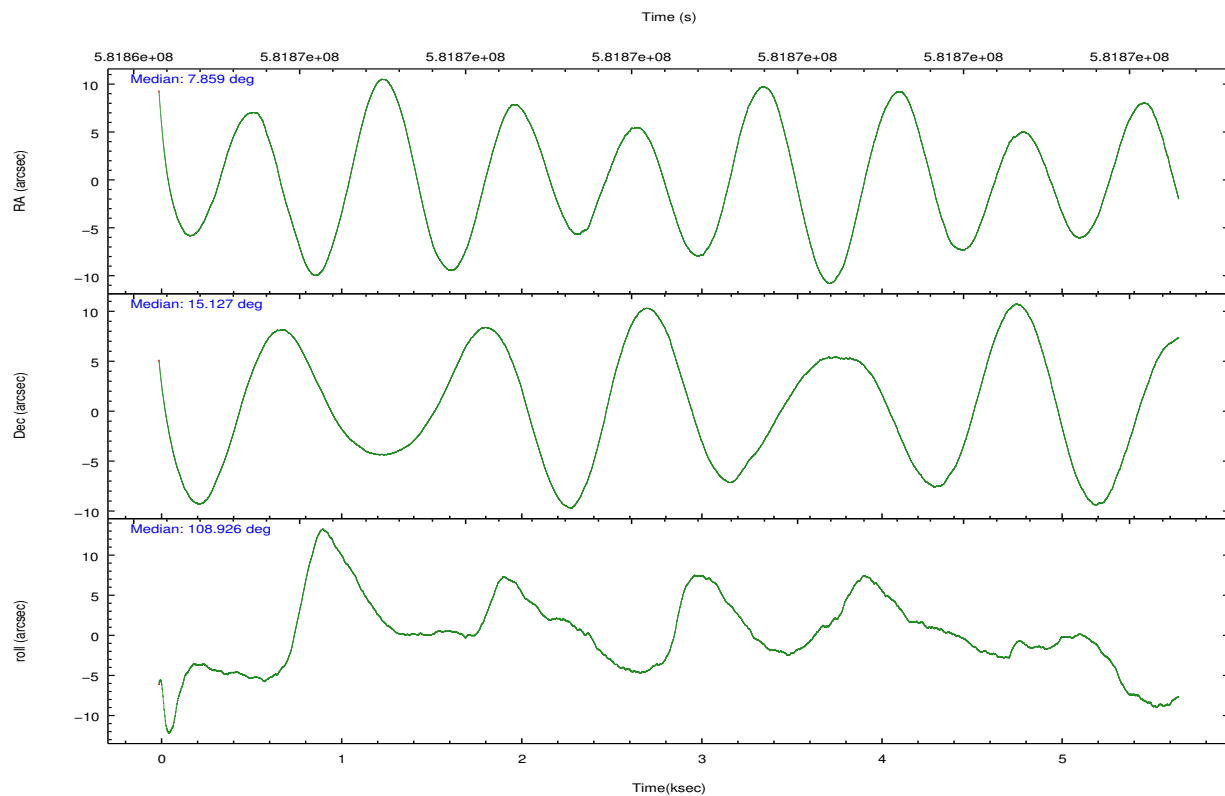
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8	ccd 9		ccd 2	ccd 3	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	34558	33818	36056	36908	42324	36032	grade 0 events	1165	1219	1216	1515	3149	1200
rejected events	31301	30475	32336	19897	31017	32343		3%	3%	3%	4%	7%	3%
rejected %	90%	90%	89%	53%	73%	89%	grade 1 events	15	15	15	55	30	16
								0%	0%	0%	0%	0%	0%
							grade 2 events	771	713	929	3782	2845	833
								2%	2%	2%	10%	6%	2%
							grade 3 events	366	363	349	1256	1162	373
								1%	1%	0%	3%	2%	1%
							grade 4 events	350	360	327	1249	1132	360
								1%	1%	0%	3%	2%	0%
							grade 5 events	1077	1326	1237	3588	2094	1522
								3%	3%	3%	9%	4%	4%
							grade 6 events	611	694	904	9234	3058	929
								1%	2%	2%	25%	7%	2%
							grade 7 events	30203	29128	31079	16229	28854	30799
								87%	86%	86%	43%	68%	85%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-236789	ACIS-236789	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	7.880585	7.858954019741475	CCD I2 on	O1	Y
[deg] Pointing Dec	15.109929	15.12758914658322	CCD I3 on	O2	Y
[deg] Pointing Roll	108.770689	108.9329789950492	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	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	Y	Y
[s] Observation start time (MET)	581865554.184000	581864382.529	CCD S5 on	Y	Y
Observation start date	2016-06-09T13:18:06	2016-06-09T12:59:42	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	581871054.184000	581872016.21693	On-chip summing requested	N	N
Observation end date	2016-06-09T14:49:46	2016-06-09T15:06:56	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



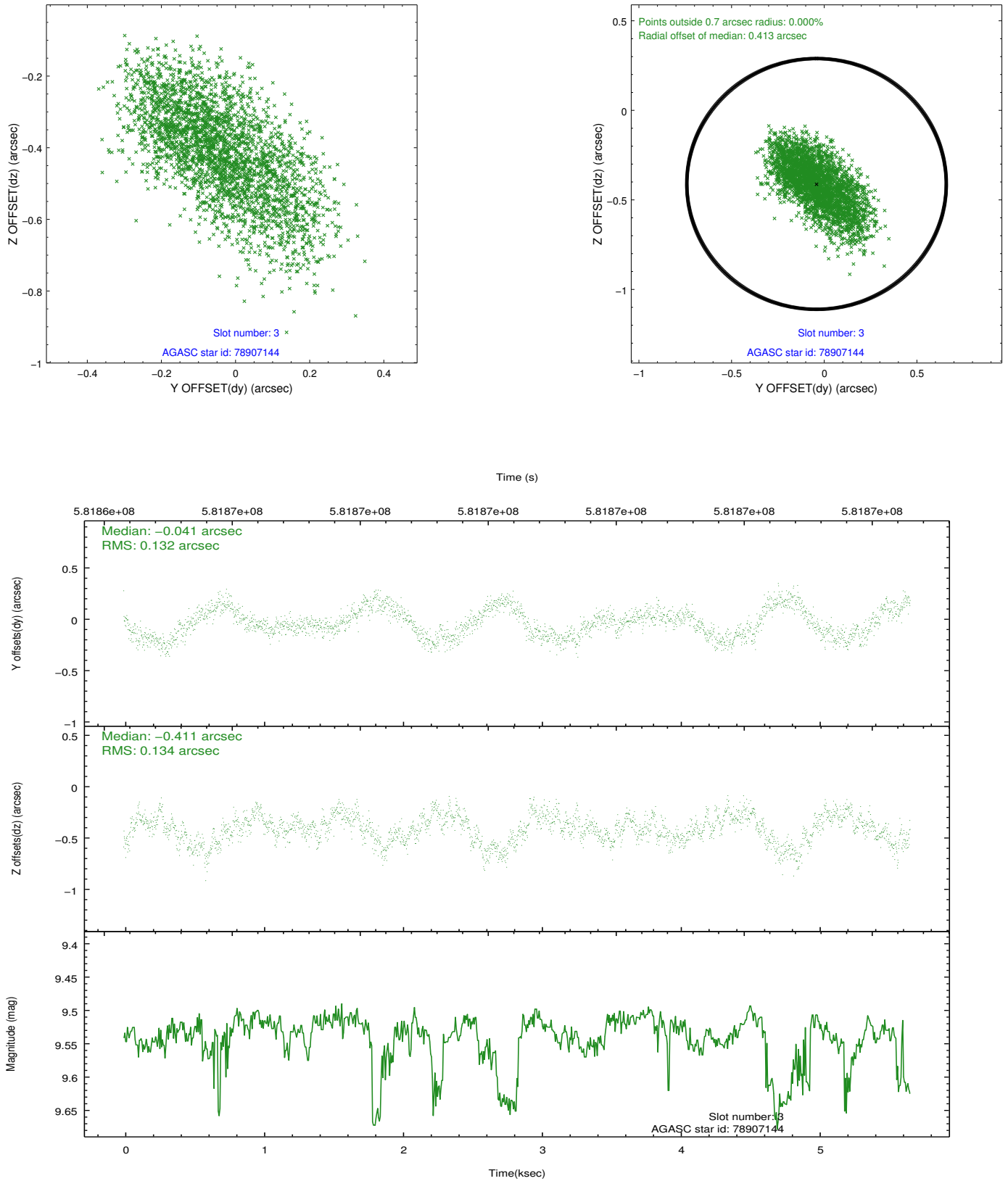


Slot Statistics

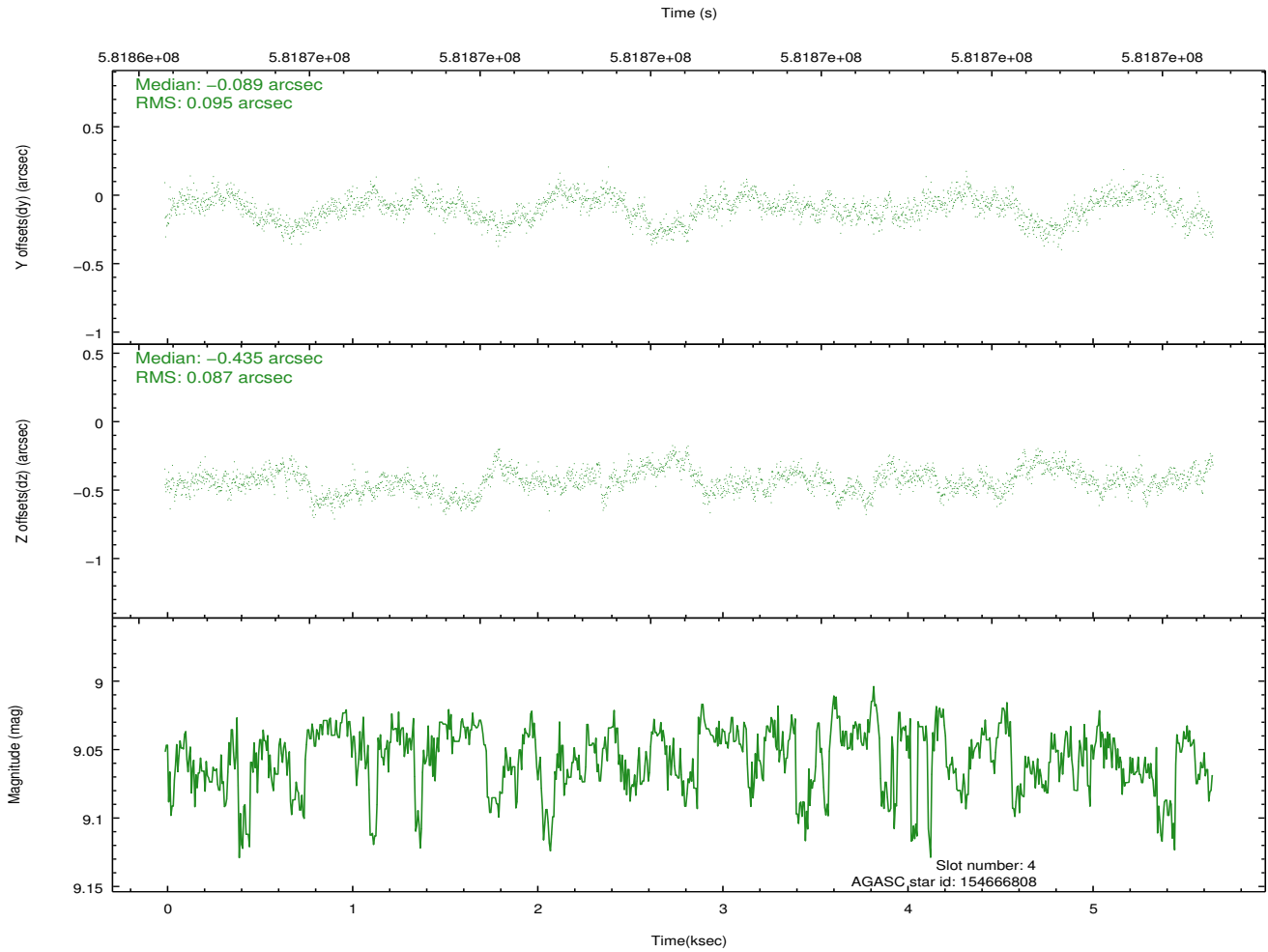
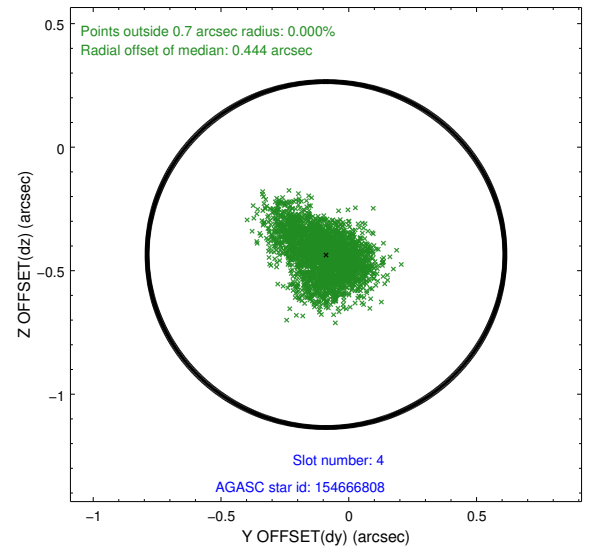
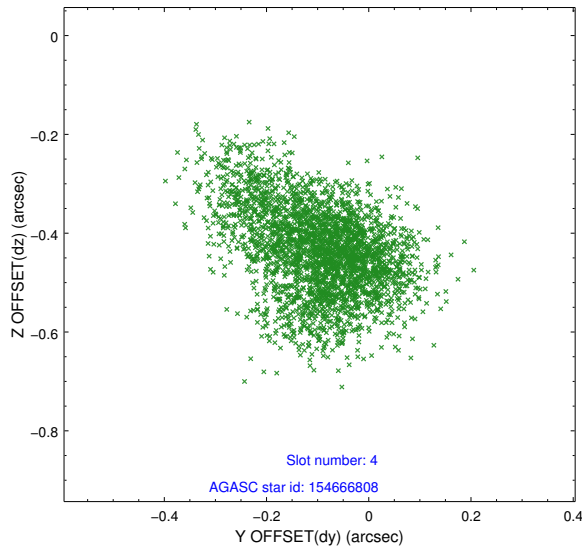
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.23	1382	0.082	-0.033	0.010	0.017	0.000000	0.000000	937.18	-1730.82
1	FID		ACIS-S-5	7.26	1382	-0.181	0.047	0.008	0.013	0.000000	0.000000	-1811.49	165.71
2	FID		ACIS-S-6	7.39	1382	0.078	-0.003	0.011	0.018	0.000000	0.000000	401.59	810.82
3	GUIDE	used	78907144	9.54	2758	-0.041	-0.411	0.203	0.328	7.466111	14.743750	-782.01	1789.81
4	GUIDE	used	154666808	9.05	2761	-0.089	-0.435	0.136	0.227	7.642485	15.650530	2108.78	156.54
5	GUIDE	used	155590880	7.73	2763	-0.157	0.090	0.170	0.261	8.063816	15.726176	1897.92	-1314.34
6	GUIDE	used	155593880	9.52	2759	-0.070	0.488	0.143	0.242	8.468232	15.327801	90.33	-2184.70
7	GUIDE	used	155596456	9.39	2759	0.349	0.292	0.142	0.225	8.541443	15.196291	-439.76	-2274.75

2.4 Star Slots

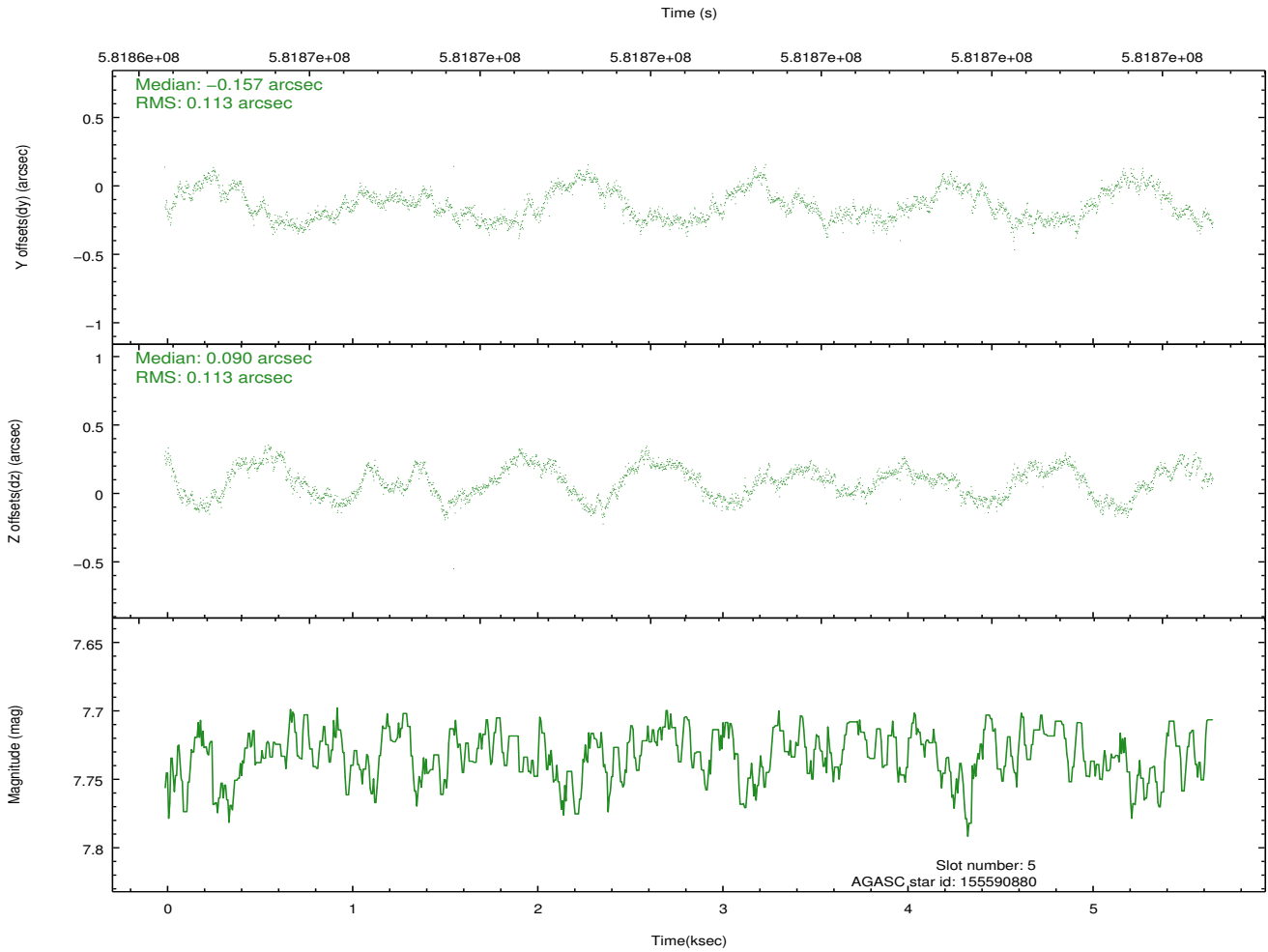
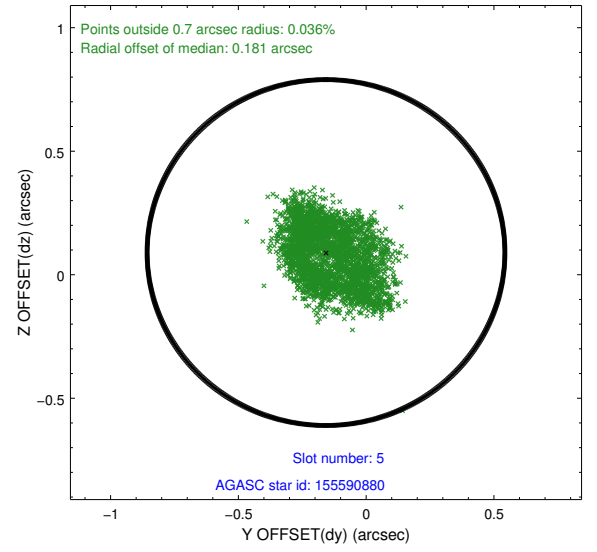
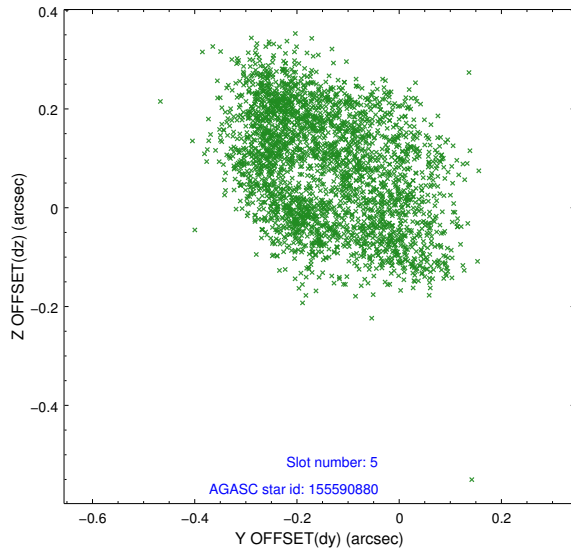
2.4.1 Slot 3



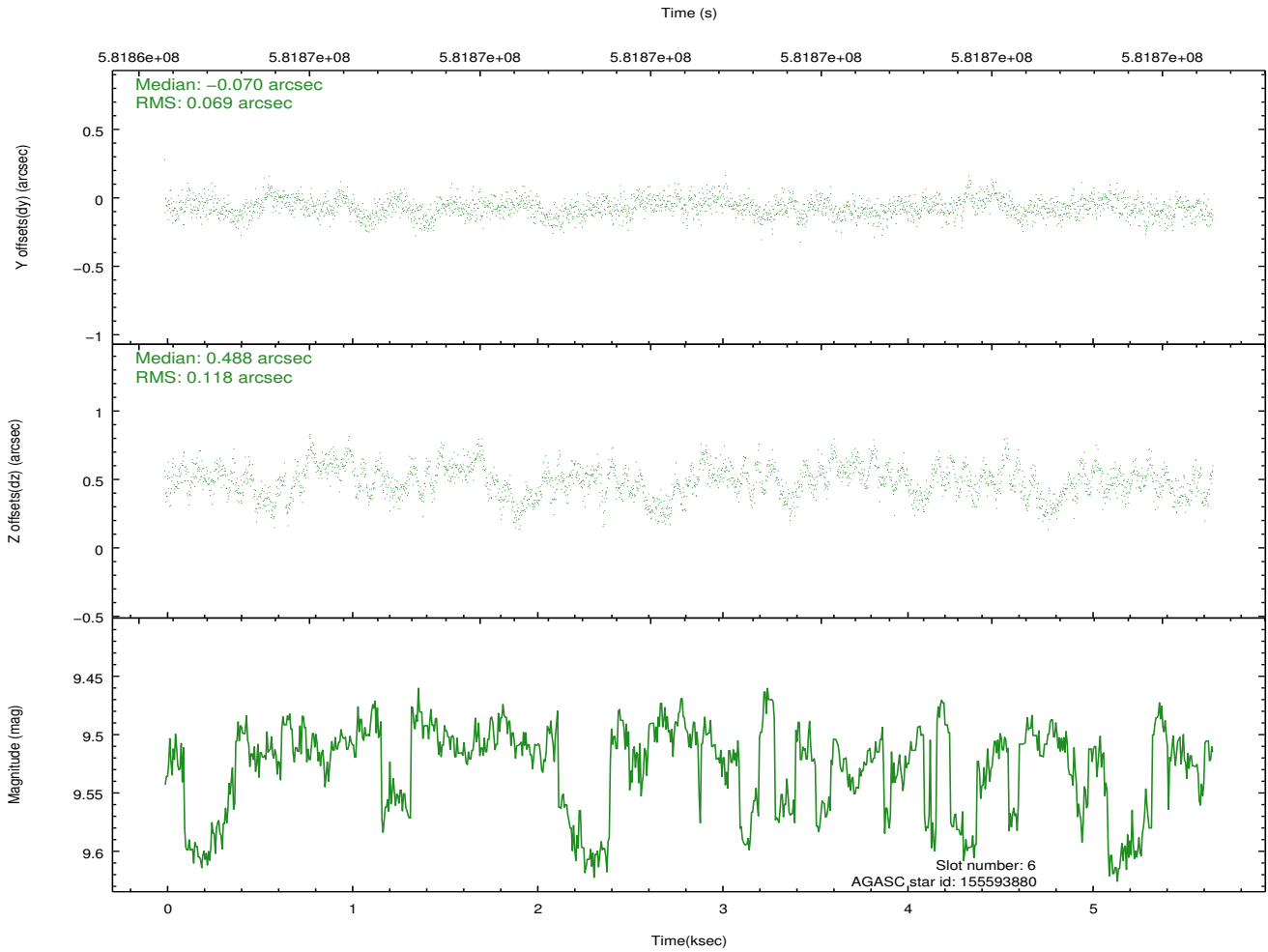
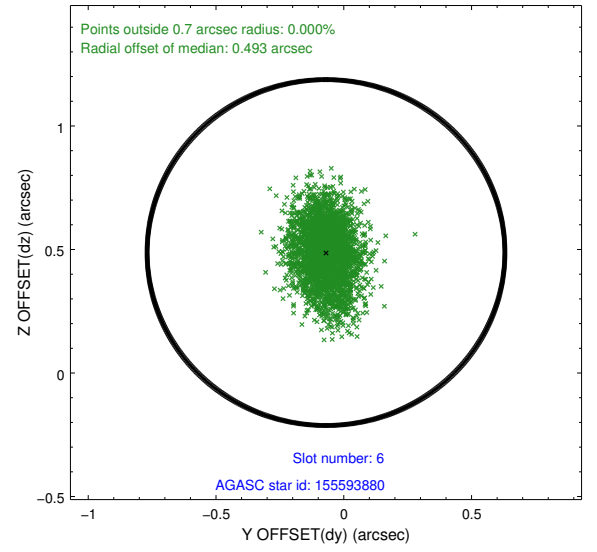
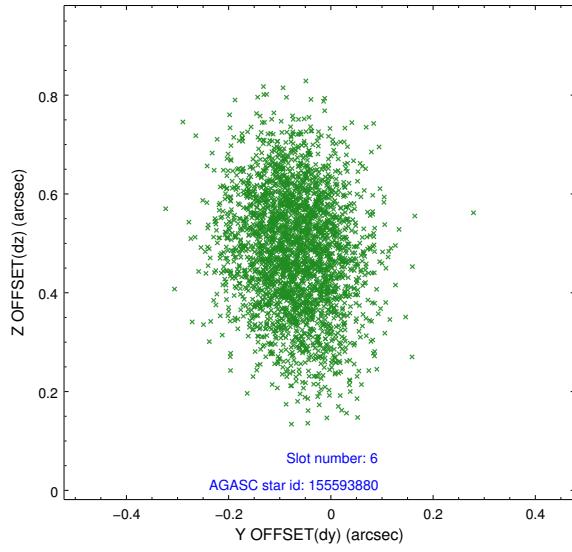
2.4.2 Slot 4



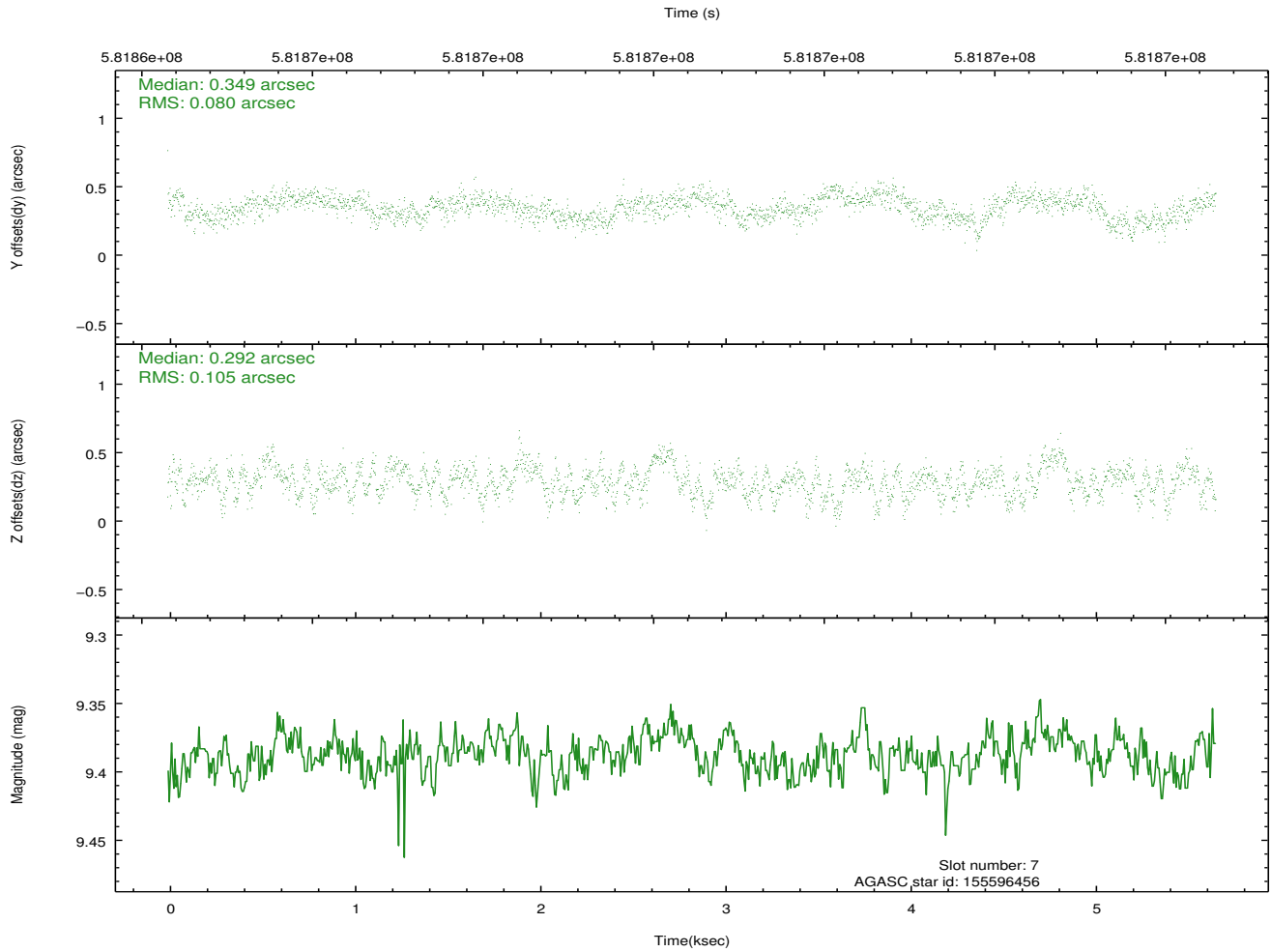
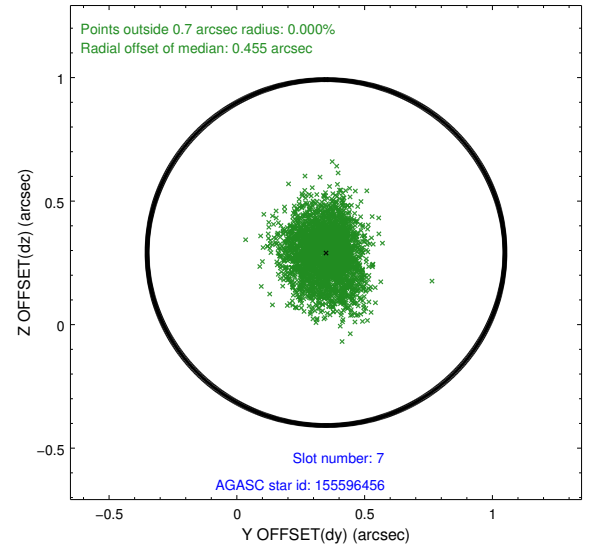
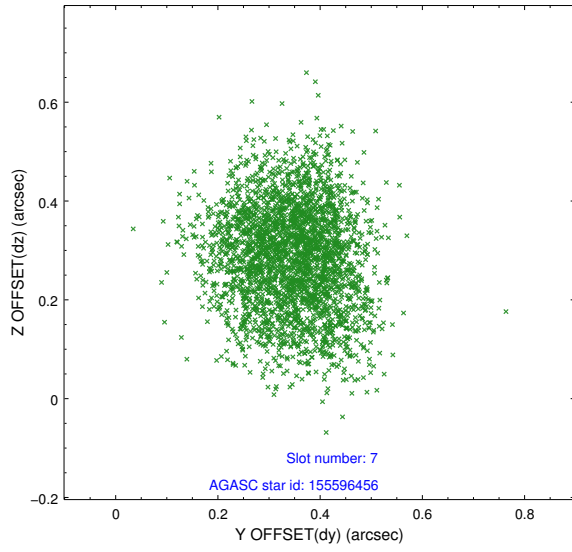
2.4.3 Slot 5



2.4.4 Slot 6

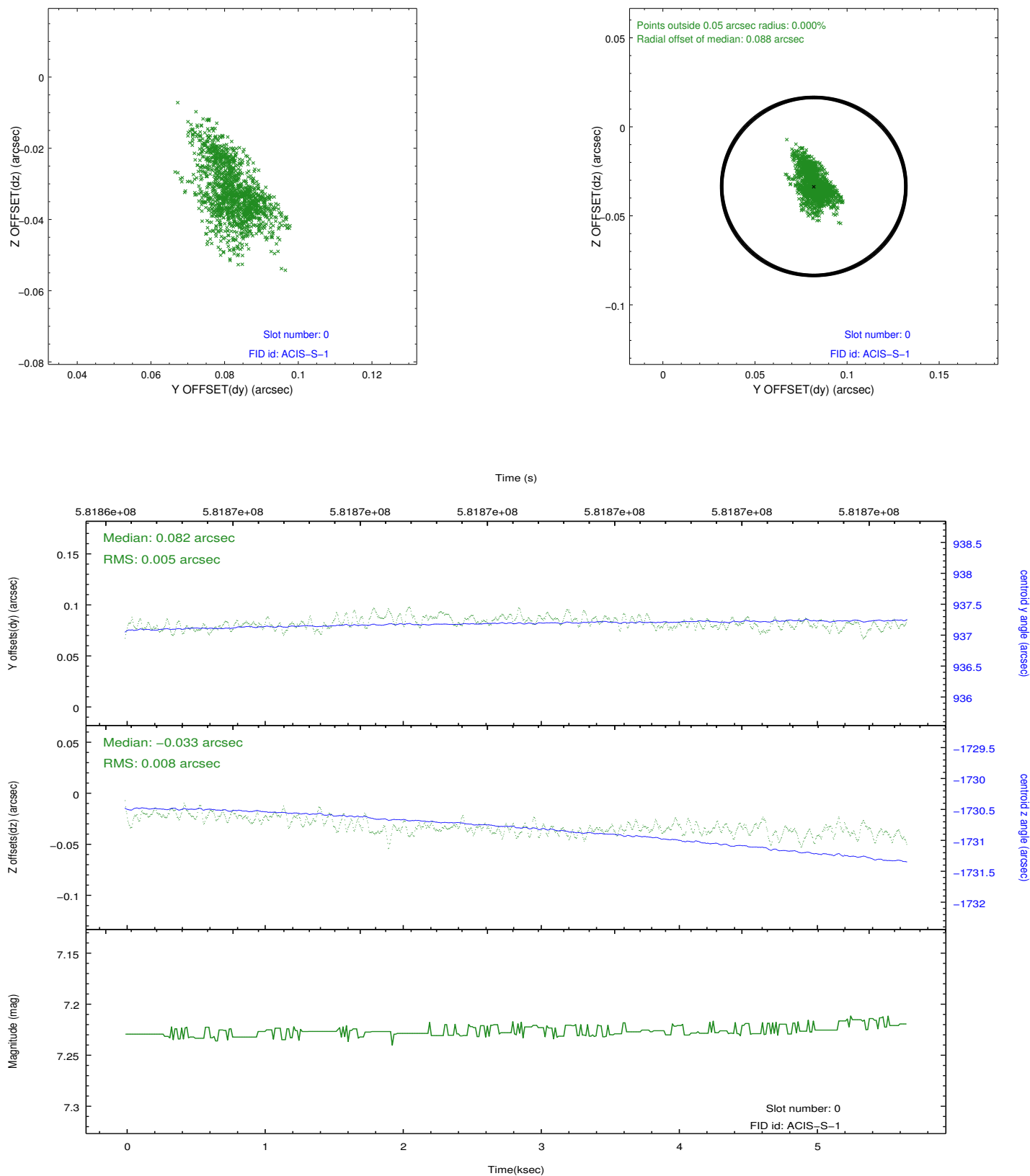


2.4.5 Slot 7

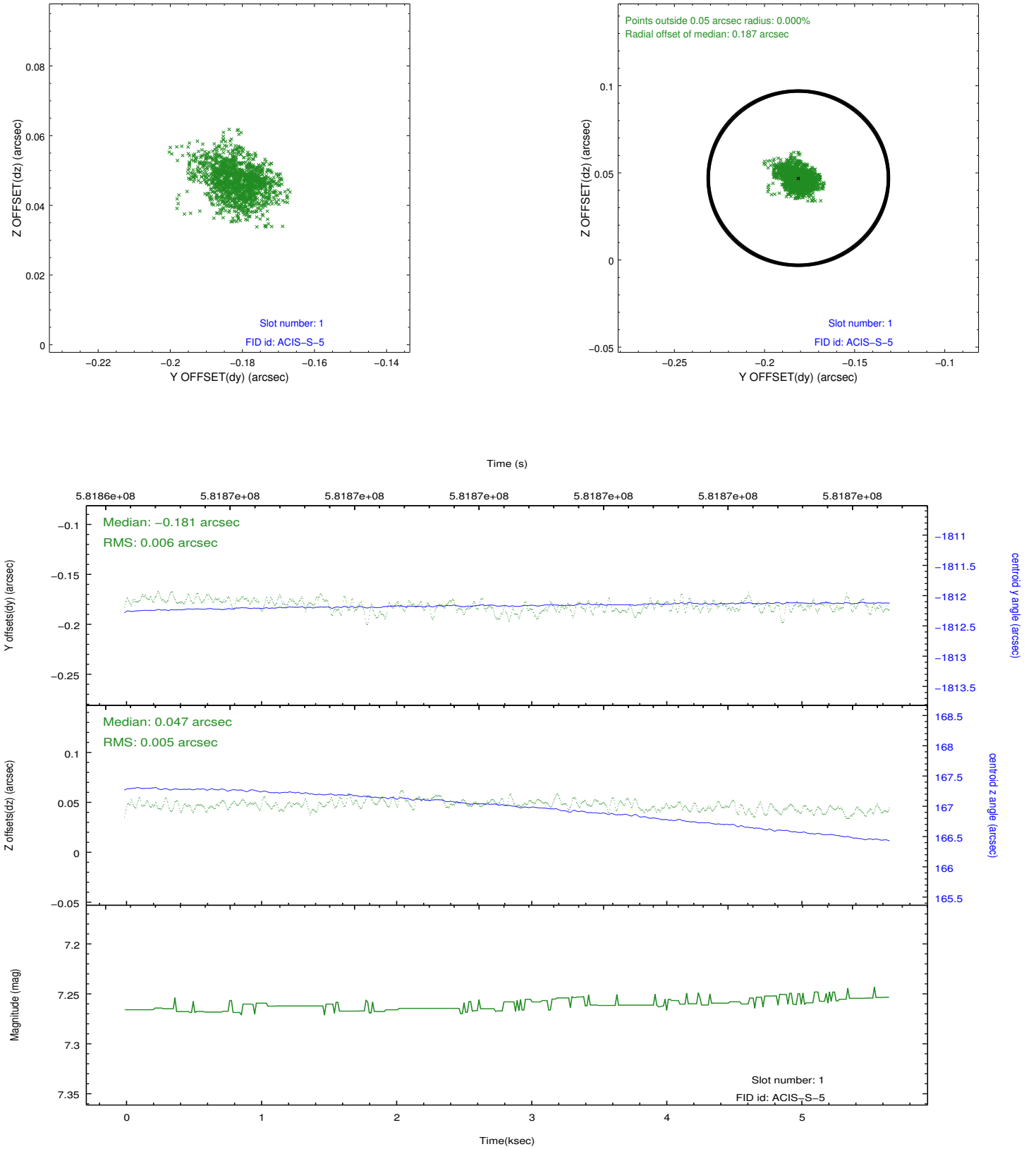


2.5 FID Slots

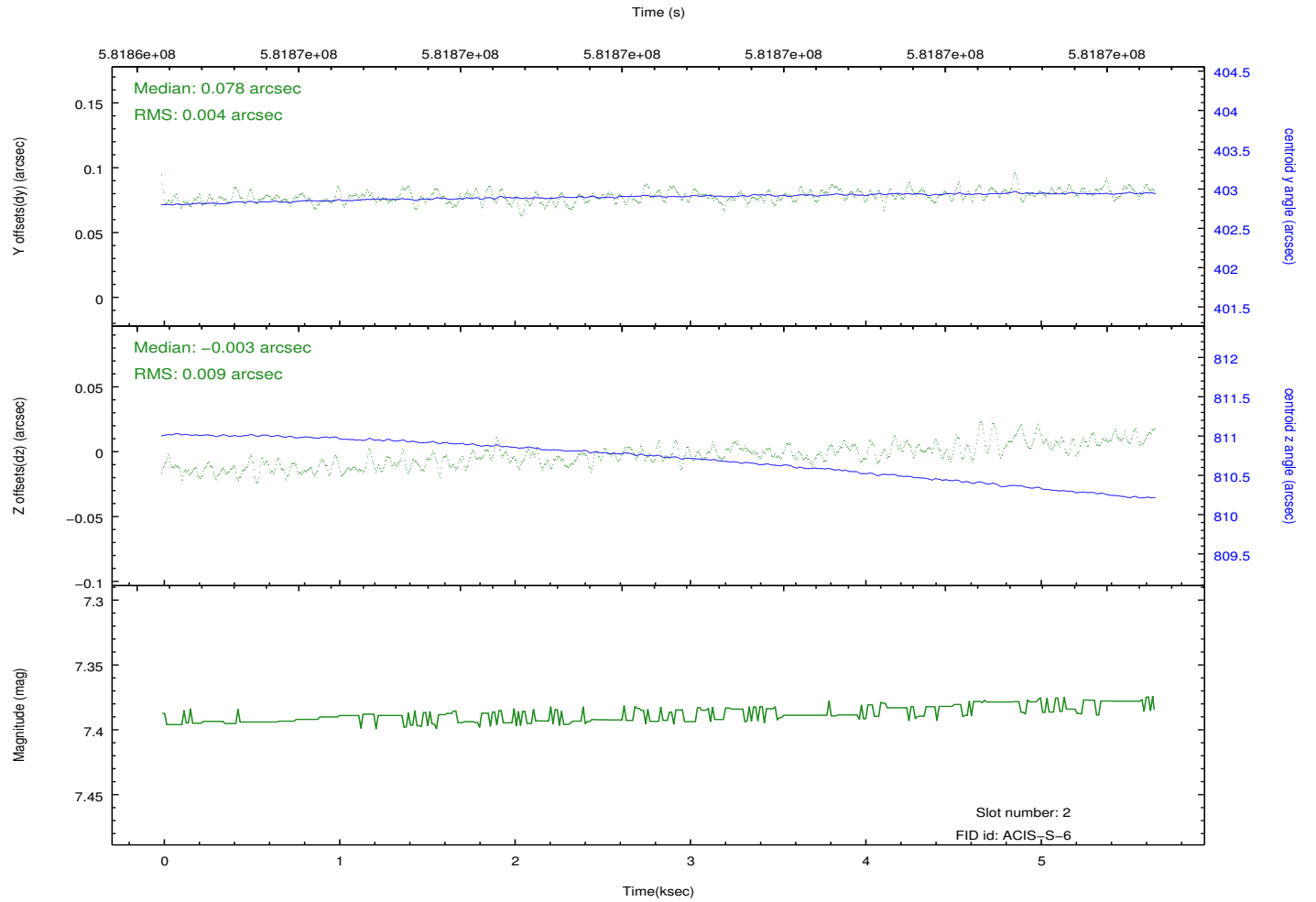
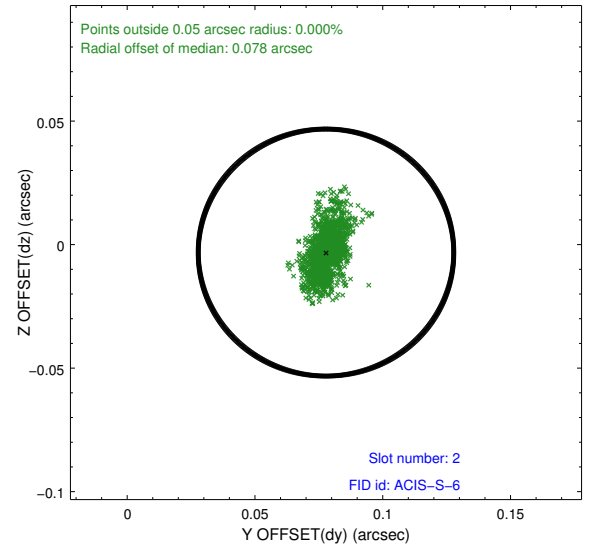
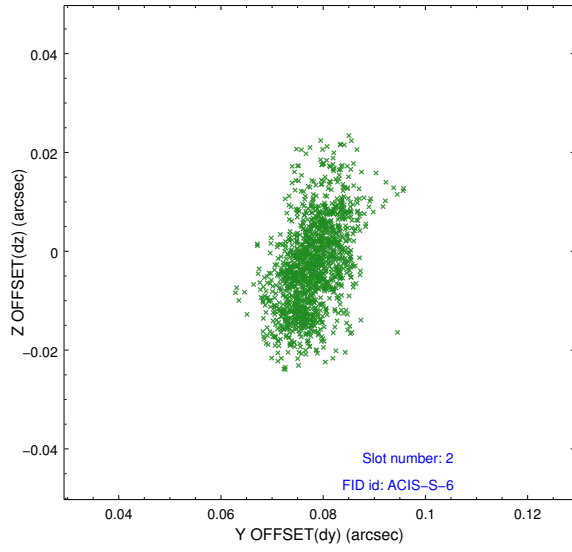
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2016.06.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.4229980016947

A.2 Comments