

V&V Reference Report

L2 ASCDS Version : 10.5.4

Observation 19875 - L2 Version 1
Chandra X-Ray Center

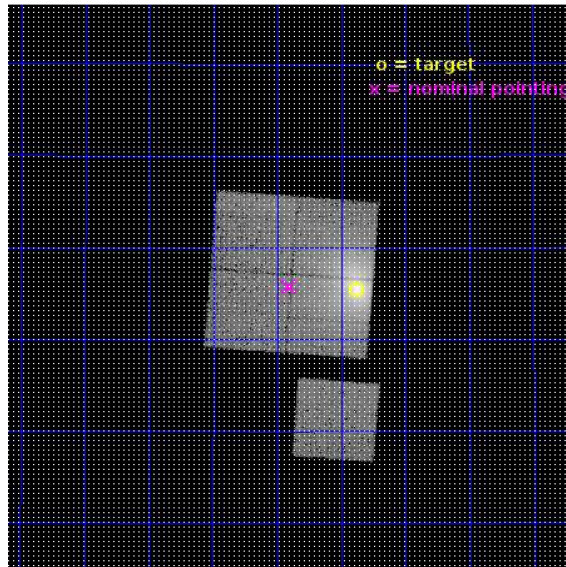
L2 Processing Date : Apr 22 2017

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

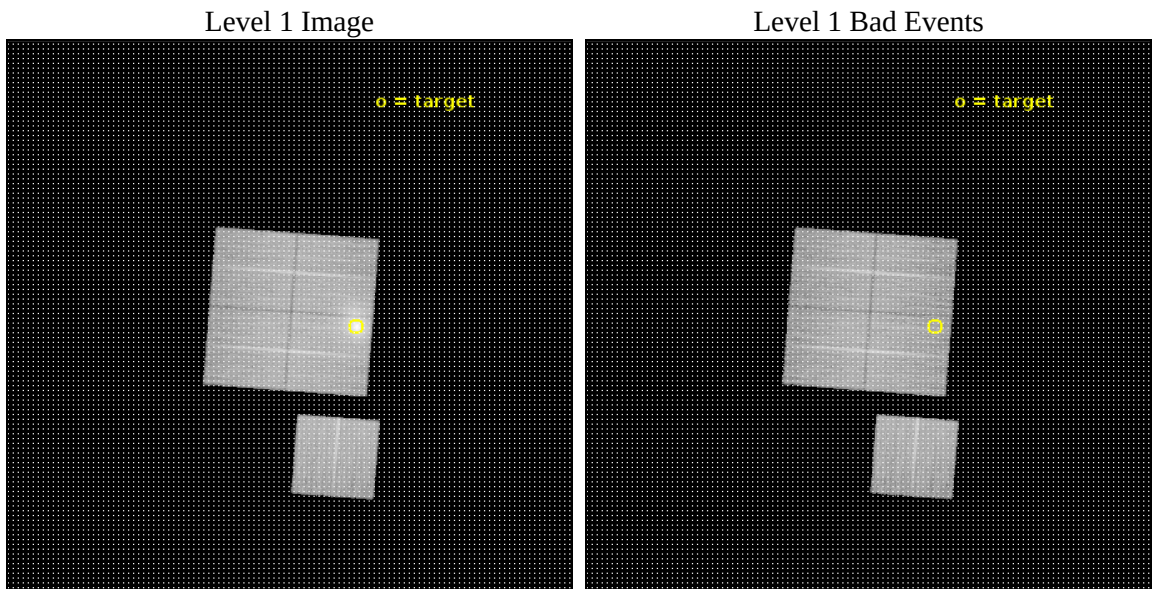
seq_num	890140	Sequence number
obs_id	19875	Observation id
title	AO-18 Calibration Observations of A1795	Proposal title
observer	CXC Calibration	Principal investigator
object	A1795	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	207.219583	Observer's specified target RA [deg]
dec_targ	26.590833	Observer's specified target Dec [deg]
ra_nom	207.35111649982	Nominal RA [deg]
dec_nom	26.59573309944	Nominal Dec [deg]
roll_nom	184.38790537071	Nominal Roll [deg]
revision	1	Processing version of data
ontime	25770.259127975	Sum of GTIs [s]
livetime	25433.551720679	Livetime [s]
ontime0	25770.259148121	Sum of GTIs [s]
ontime1	25770.259208083	Sum of GTIs [s]
ontime2	25770.259127975	Sum of GTIs [s]
ontime3	25770.259188175	Sum of GTIs [s]
ontime6	25767.118117929	Sum of GTIs [s]
l2events	192998	Number of level 2 events



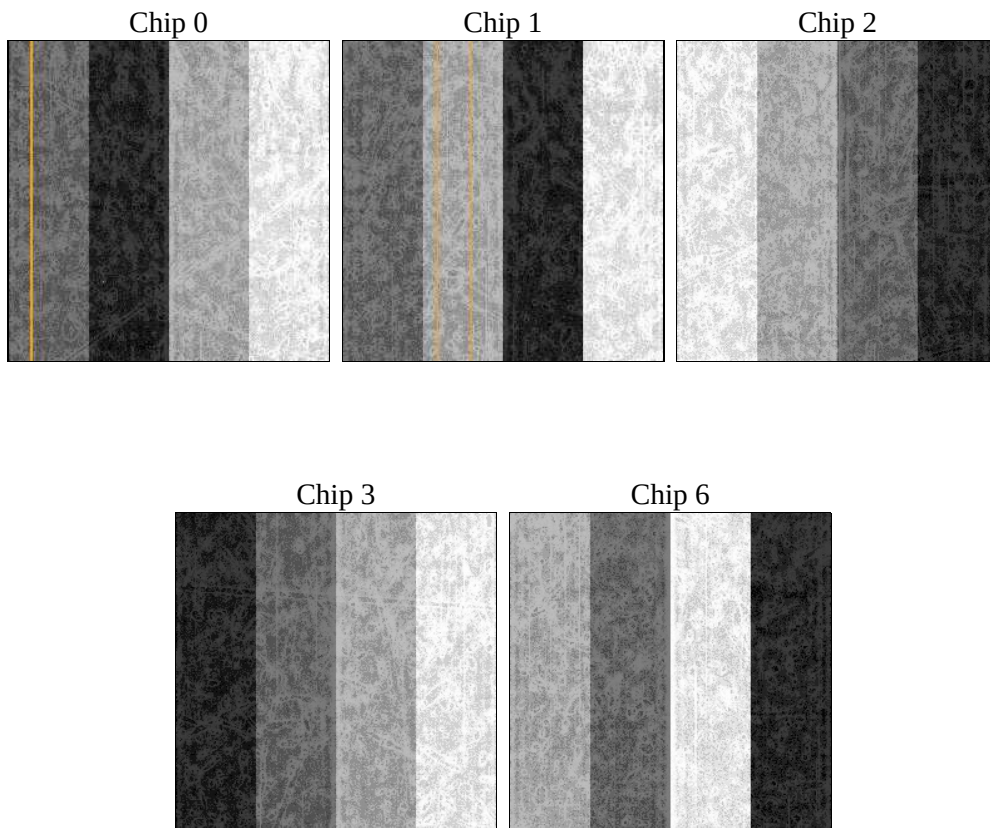
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	26000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.4	Processing system revision	ontime	25770.259127975	Sum of GTIs [s]
caldsver	4.7.3	 	ontime0	25770.259148121	Sum of GTIs [s]
date	2017-04-22T22:53:08	Date and time of file creation	ontime1	25770.259208083	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	25770.259127975	Sum of GTIs [s]
			ontime3	25770.259188175	Sum of GTIs [s]
			ontime6	25767.118117929	Sum of GTIs [s]
			l1events	985556	Number of level 1 events

2.1.4 Events

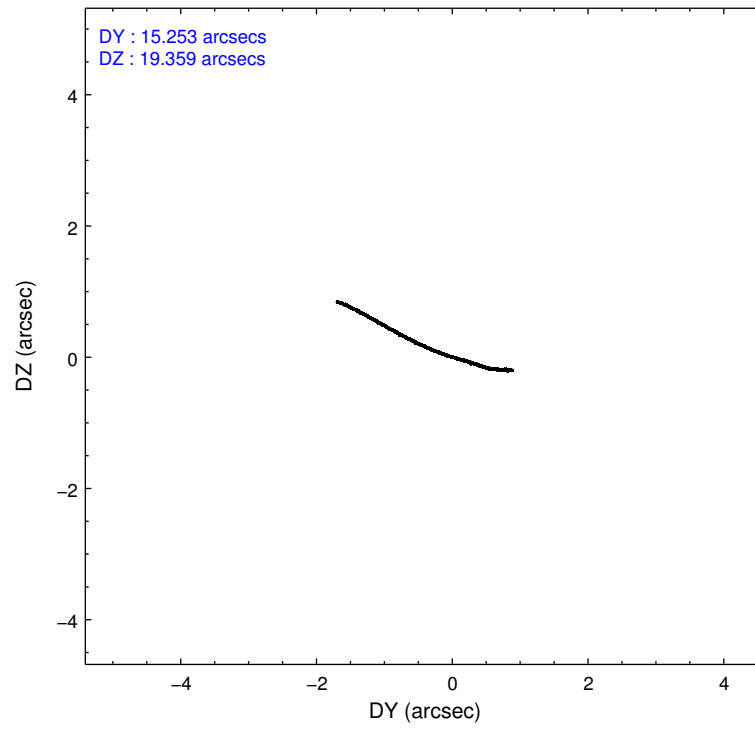
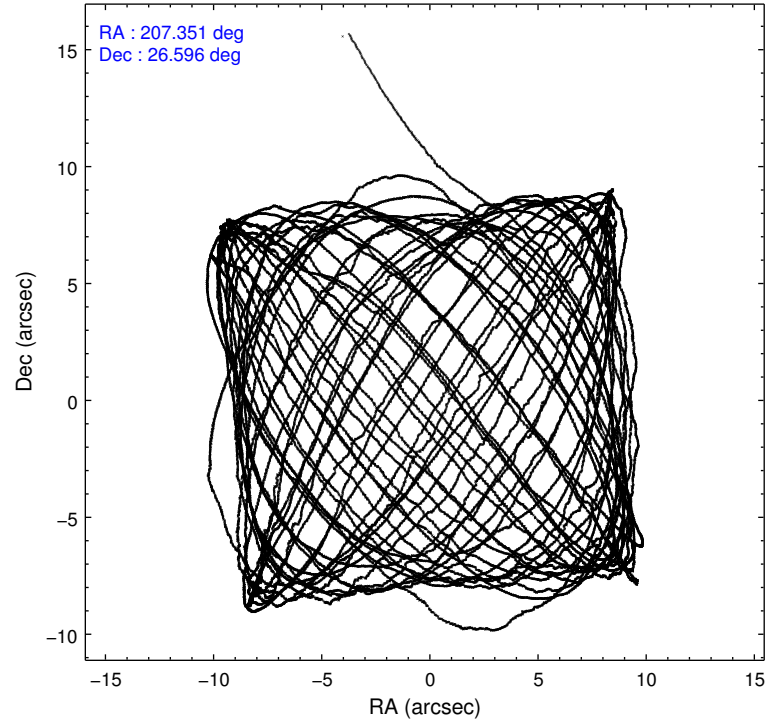
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	197010	168404	265979	174878	179285
rejected events	145231	145132	163202	154763	158489
rejected %	73%	86%	61%	88%	88%

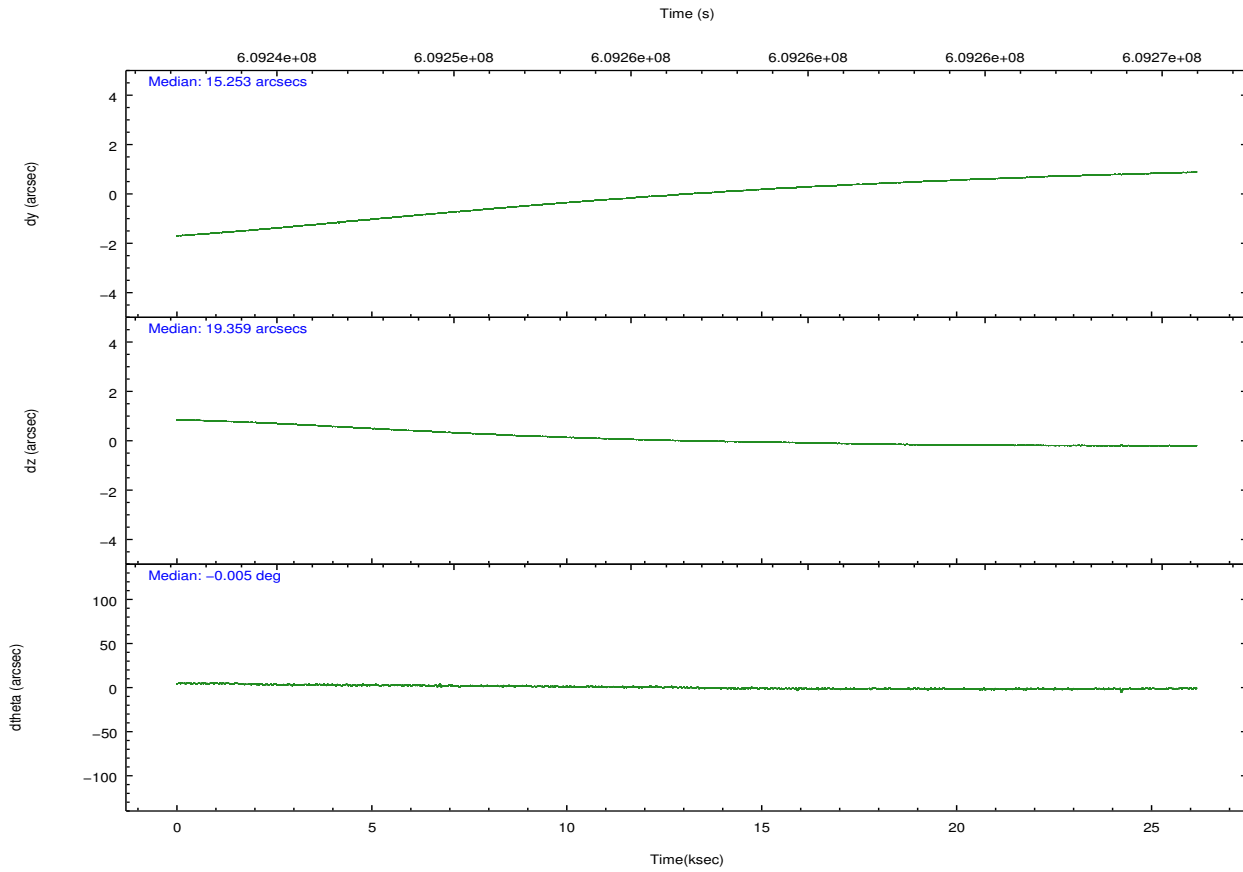
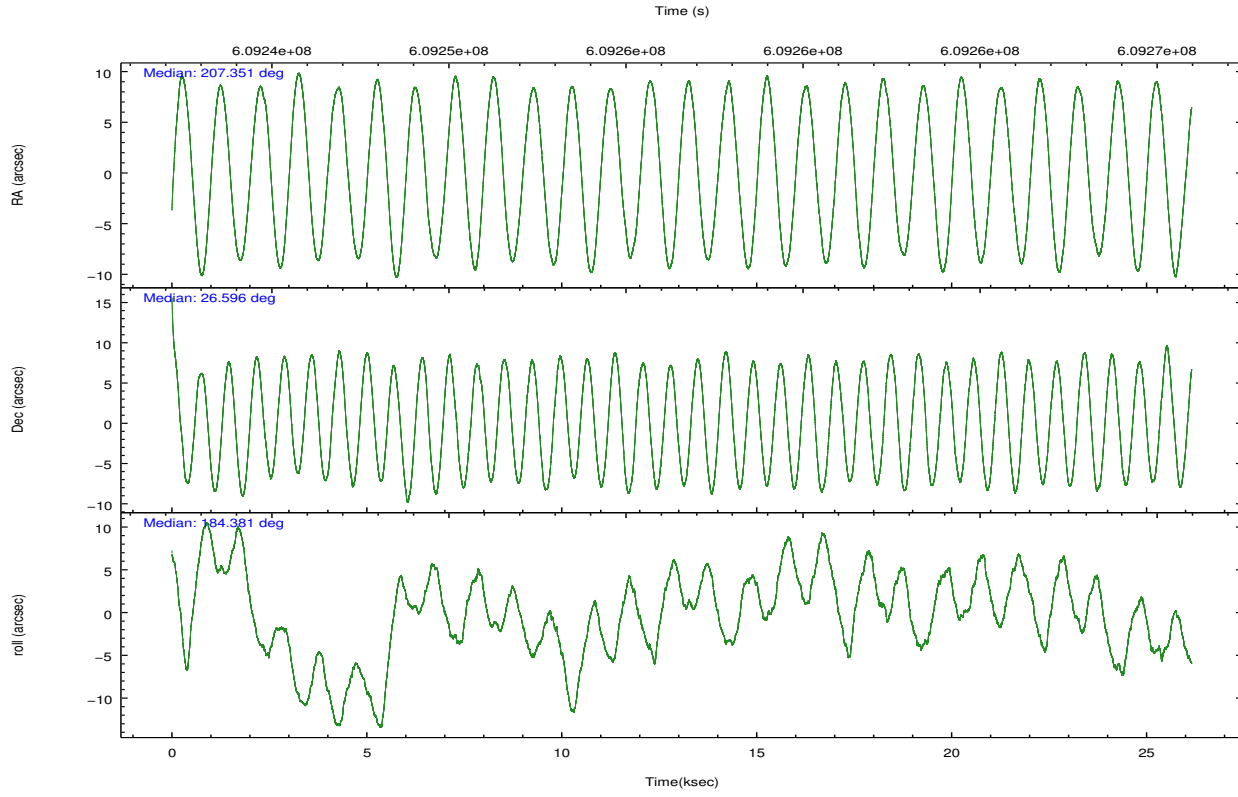
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	31789	8669	72219	7786	7032
	16%	5%	27%	4%	3%
grade 1 events	200	91	402	119	81
	0%	0%	0%	0%	0%
grade 2 events	8581	5690	14294	4391	4786
	4%	3%	5%	2%	2%
grade 3 events	3170	2090	4804	1981	2073
	1%	1%	1%	1%	1%
grade 4 events	3024	2024	4949	1916	2114
	1%	1%	1%	1%	1%
grade 5 events	7450	8256	7229	8544	8453
	3%	4%	2%	4%	4%
grade 6 events	5224	4805	6538	4046	4795
	2%	2%	2%	2%	2%
grade 7 events	137572	136779	155544	146095	149951
	69%	81%	58%	83%	83%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	207.376532	207.3511164998216	CCD I2 on	Y	Y
[deg] Pointing Dec	26.611403	26.59573309944043	CCD I3 on	Y	Y
[deg] Pointing Roll	184.167839	184.3879053707126	CCD S0 on	N	N
[s] Window start time (MET)	607392069.184000	607392069.184000	CCD S1 on	N	N
[s] Window stop time (MET)	609897669.184000	609897669.184000	CCD S2 on	O1	Y
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S3 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S4 on	N	N
[mm] SIM translation stage pos	-231.837463	-231.8399853262445	CCD S5 on	N	N
[mm] SIM translation stage offset	-1.755	-1.7524676766852	Number of optional ACIS chips dropped	0	0
[s] Observation start time (MET)	609243667.184000	609242539.4965	On-chip summing requested	N	N
Observation start date	2017-04-22T10:19:58	2017-04-22T10:02:19	Subarray requested	NONE	NONE
[s] Observation end time (MET)	609269667.184000	609270553.7731301	Alternating exposures requested	N	N
Observation end date	2017-04-22T17:33:18	2017-04-22T17:49:13	[s] Primary exposure time	0.000000	3.1
Read mode	TIMED	TIMED			

2.3 Aspect



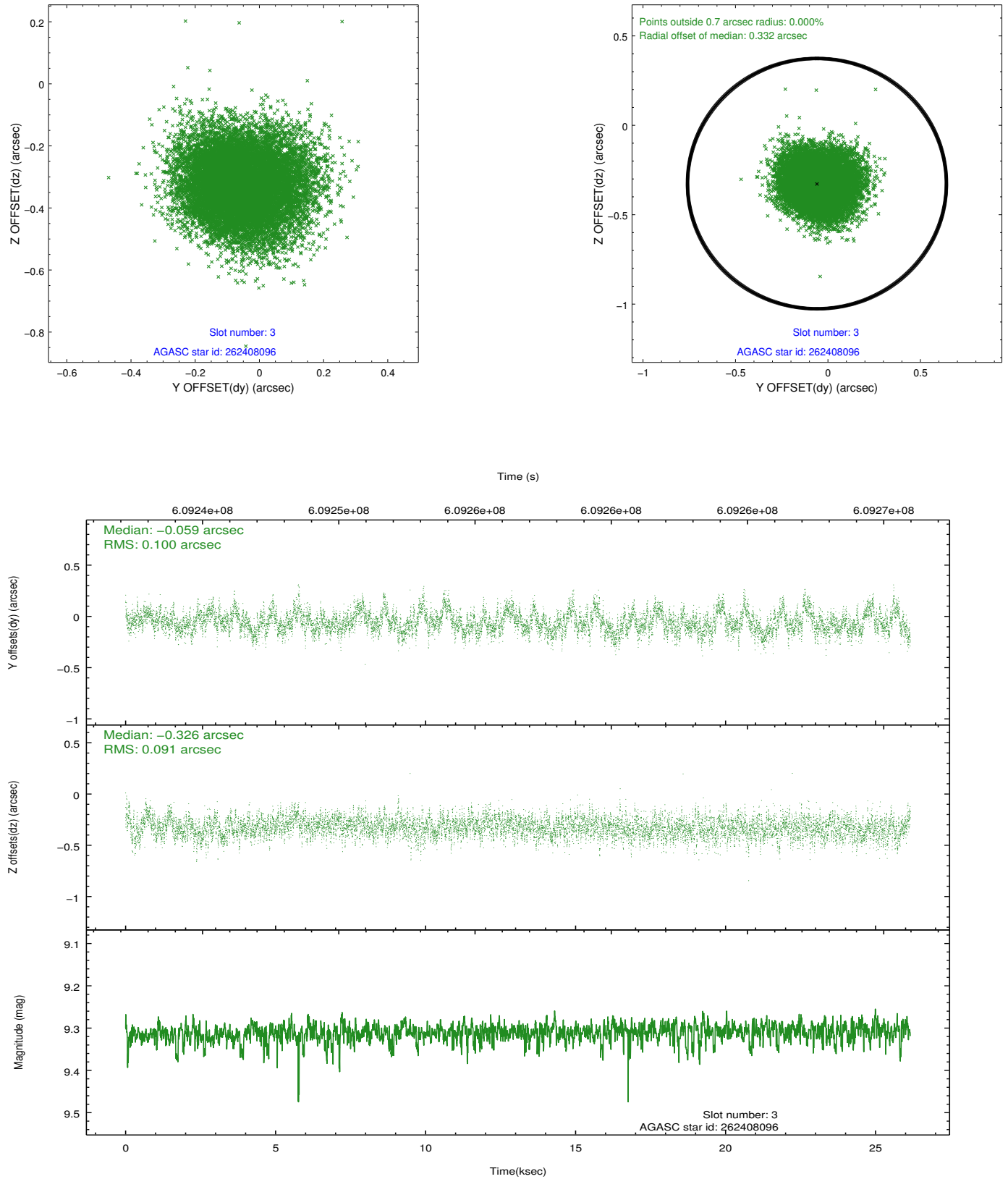


Slot Statistics

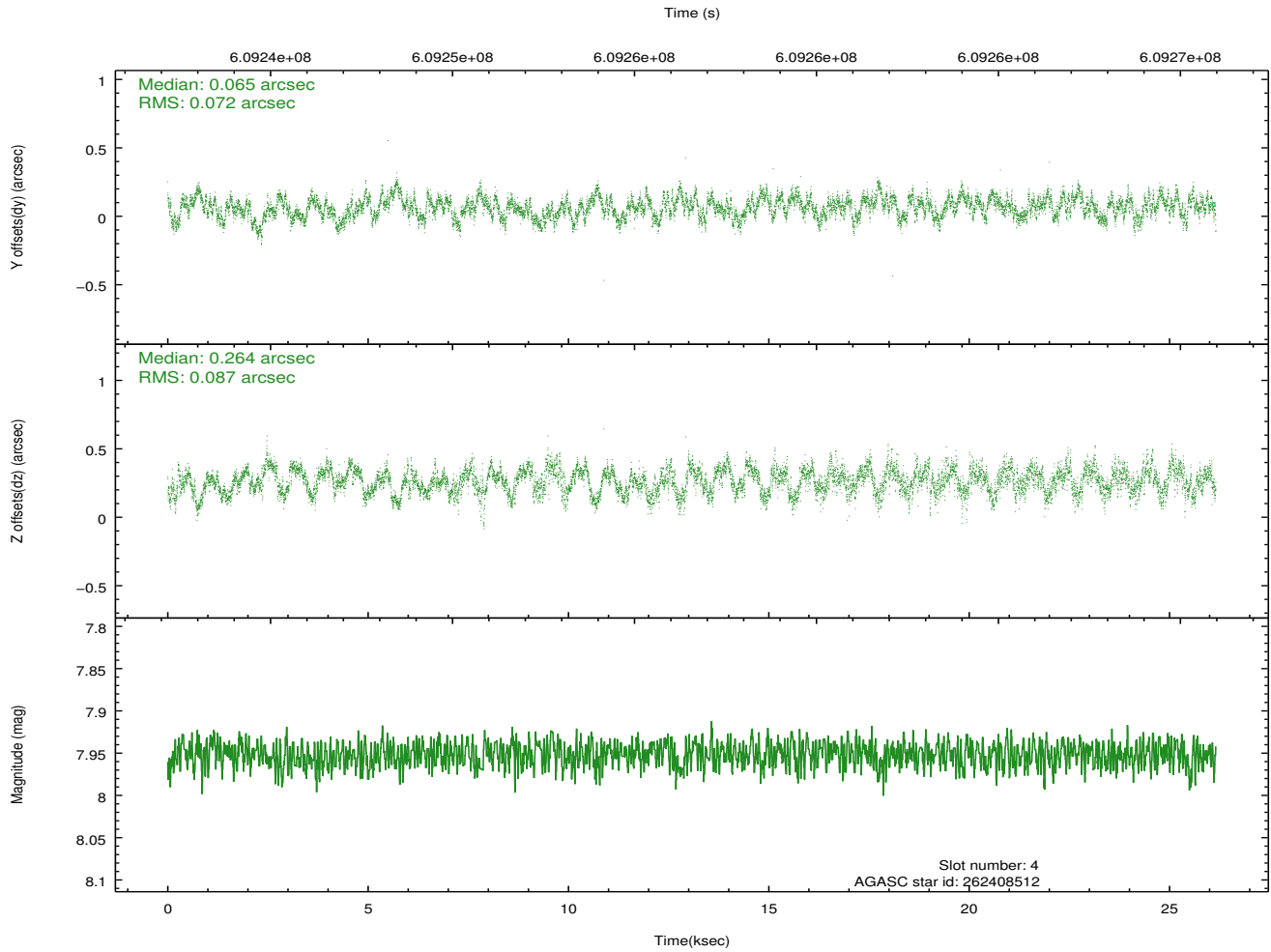
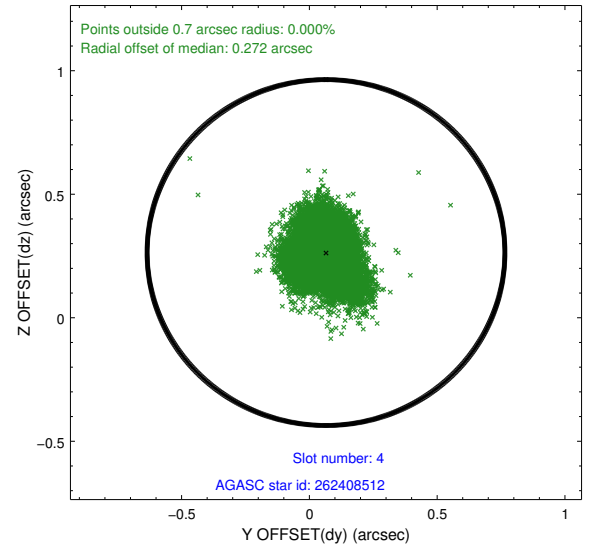
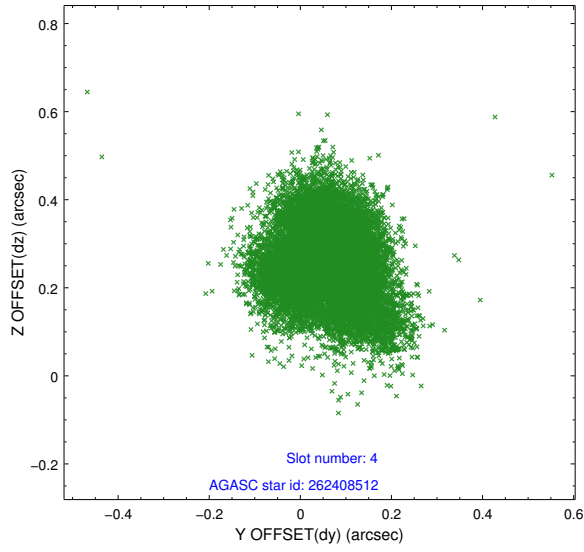
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.17	6379	0.106	-0.093	0.015	0.027	0.000000	0.000000	924.48	-879.16
1	FID		ACIS-I-5	7.17	6379	-0.381	0.051	0.010	0.018	0.000000	0.000000	-1824.14	1018.29
2	FID		ACIS-I-6	7.17	6380	0.185	0.111	0.012	0.022	0.000000	0.000000	389.87	1663.08
3	GUIDE	used	262408096	9.31	12746	-0.059	-0.326	0.143	0.234	207.011678	26.515421	1198.09	257.31
4	GUIDE	used	262408512	7.95	12759	0.065	0.264	0.122	0.192	207.800210	27.128796	-1488.67	-1760.97
5	GUIDE	used	262408936	9.63	12740	-0.162	0.092	0.279	0.457	207.154731	26.726554	680.98	-465.36
6	GUIDE	used	262414456	9.23	12747	-0.137	0.034	0.143	0.239	208.043290	26.129682	-2023.76	1881.05
7	GUIDE	used	262409552	8.18	12750	0.293	-0.072	0.167	0.292	206.584269	27.192805	2378.60	-2279.01

2.4 Star Slots

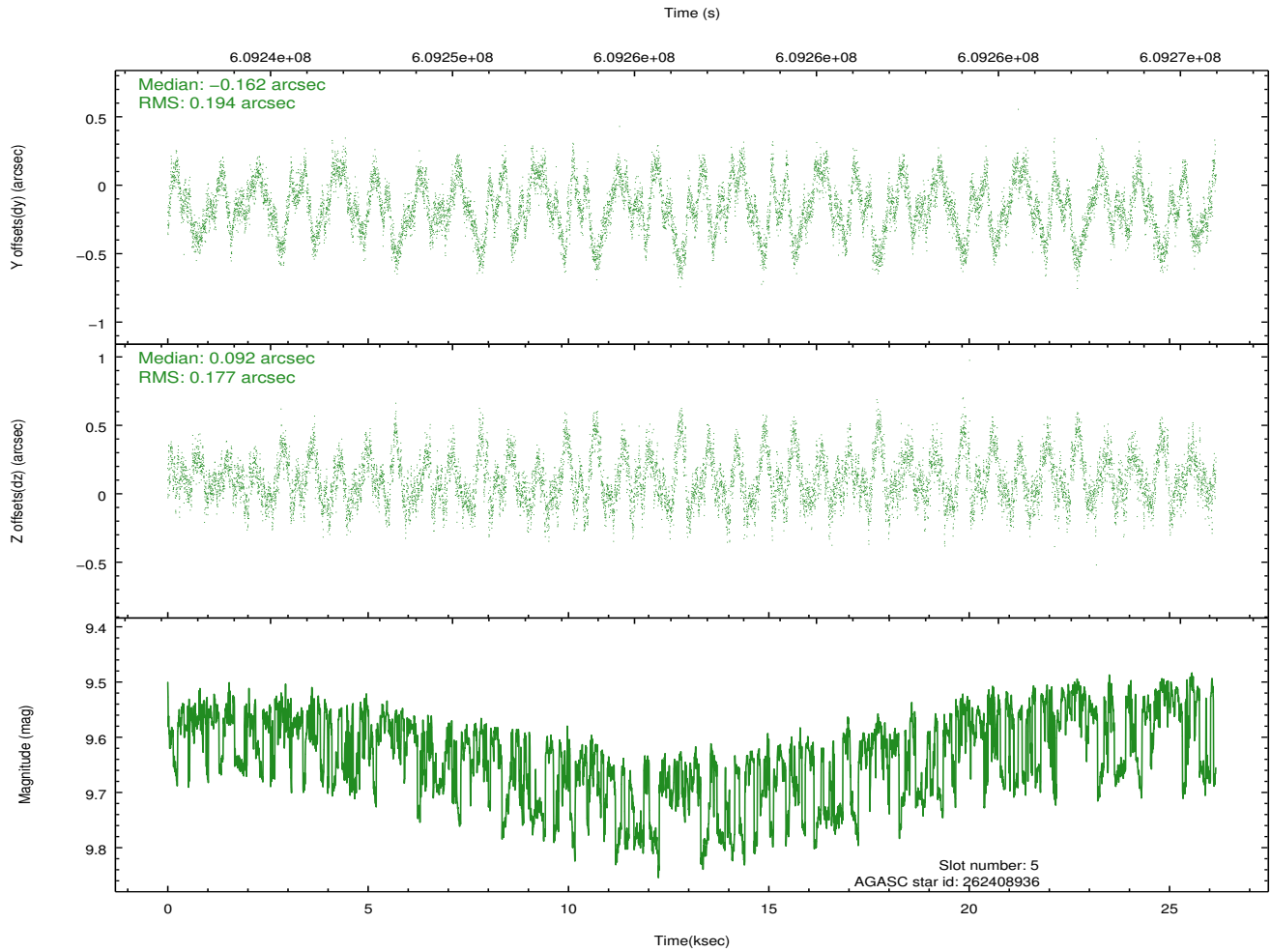
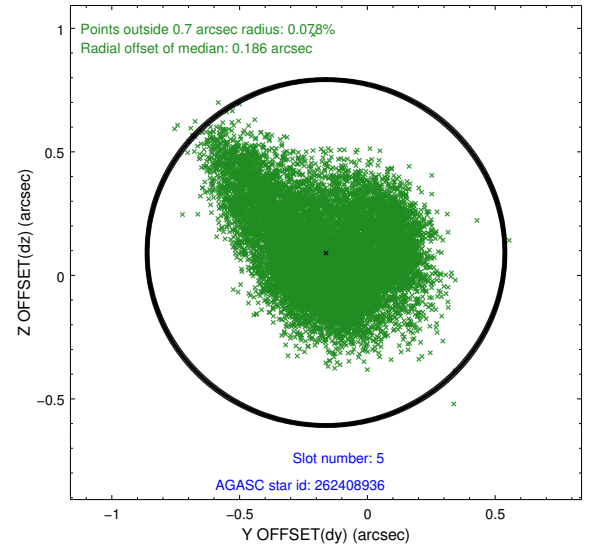
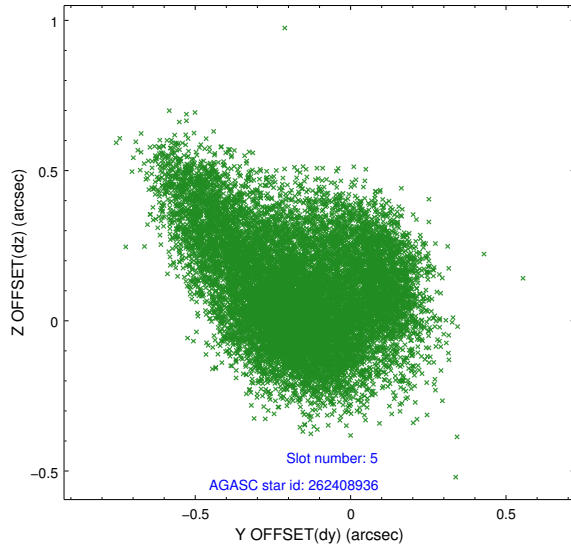
2.4.1 Slot 3



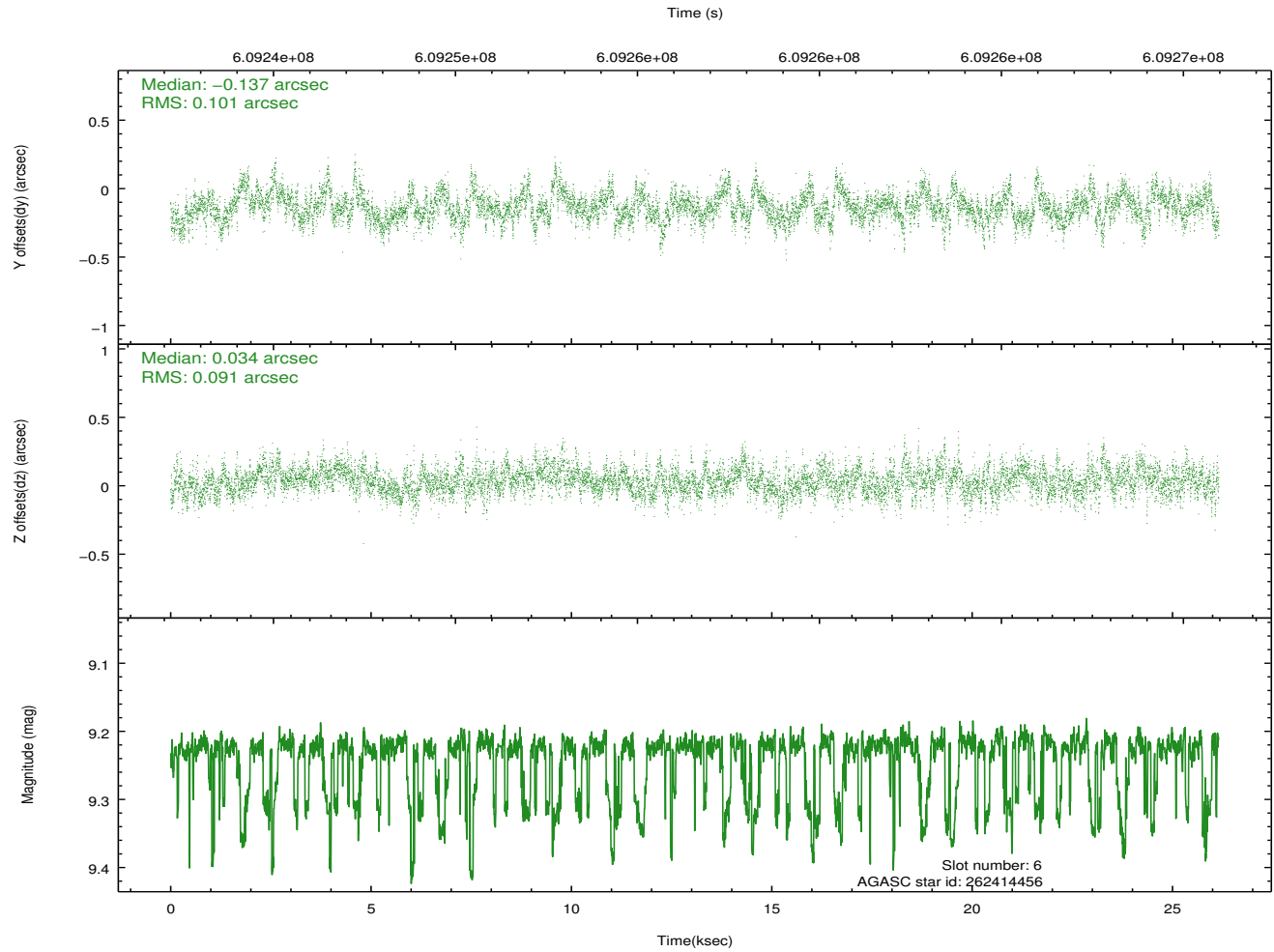
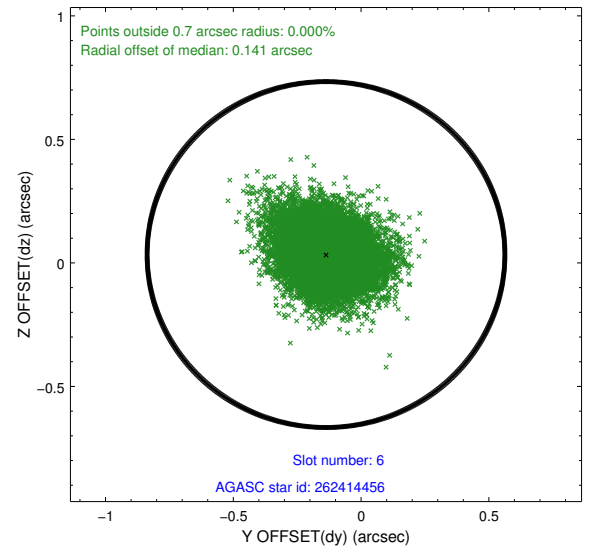
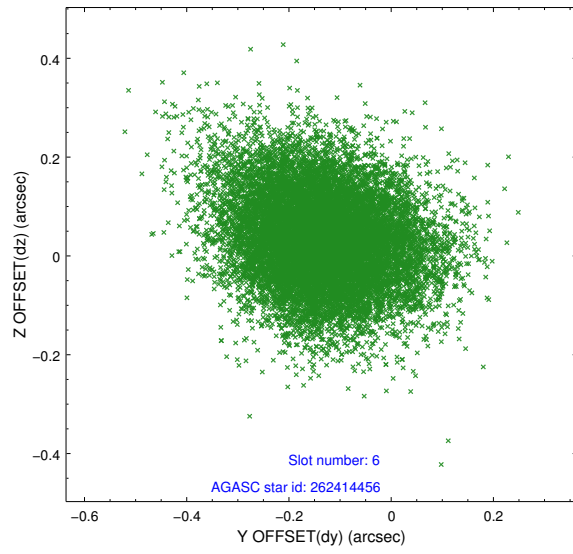
2.4.2 Slot 4



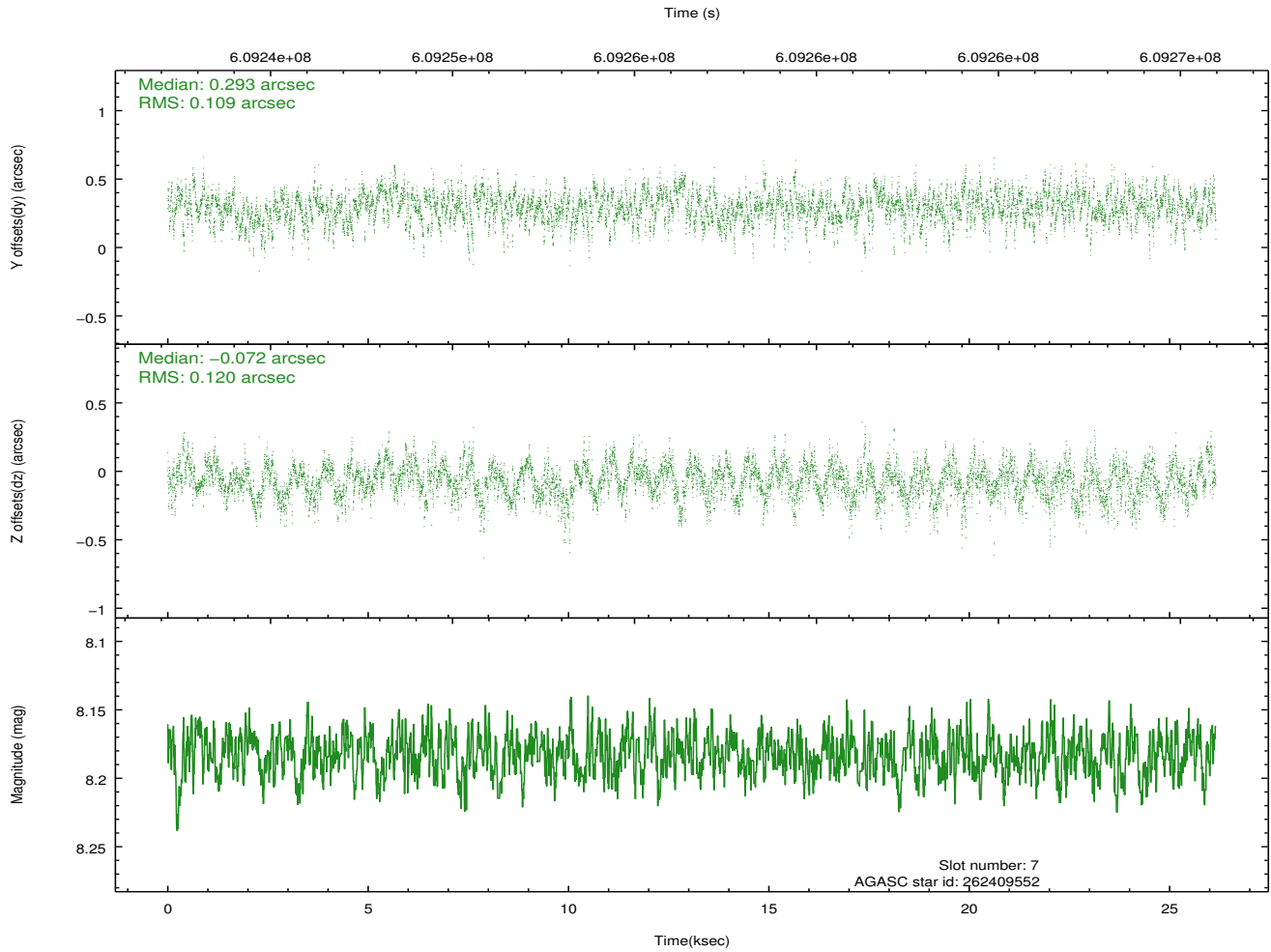
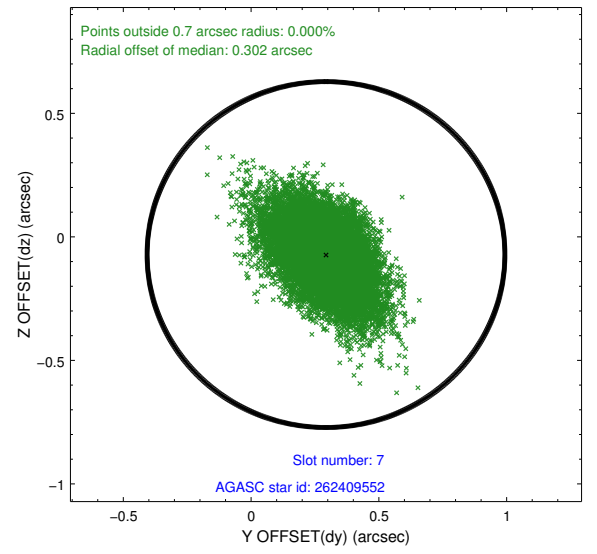
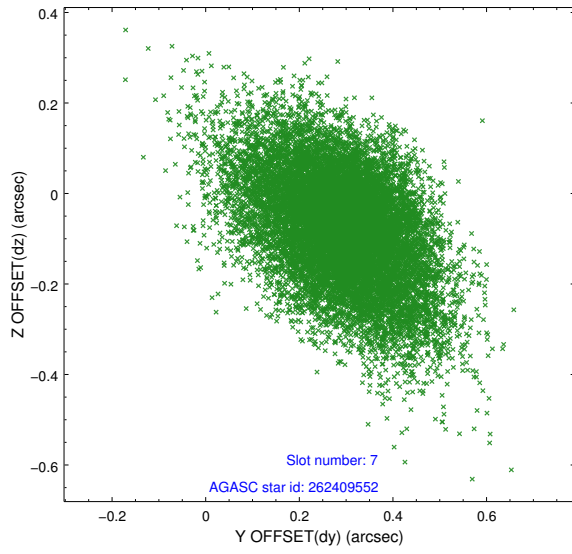
2.4.3 Slot 5



2.4.4 Slot 6

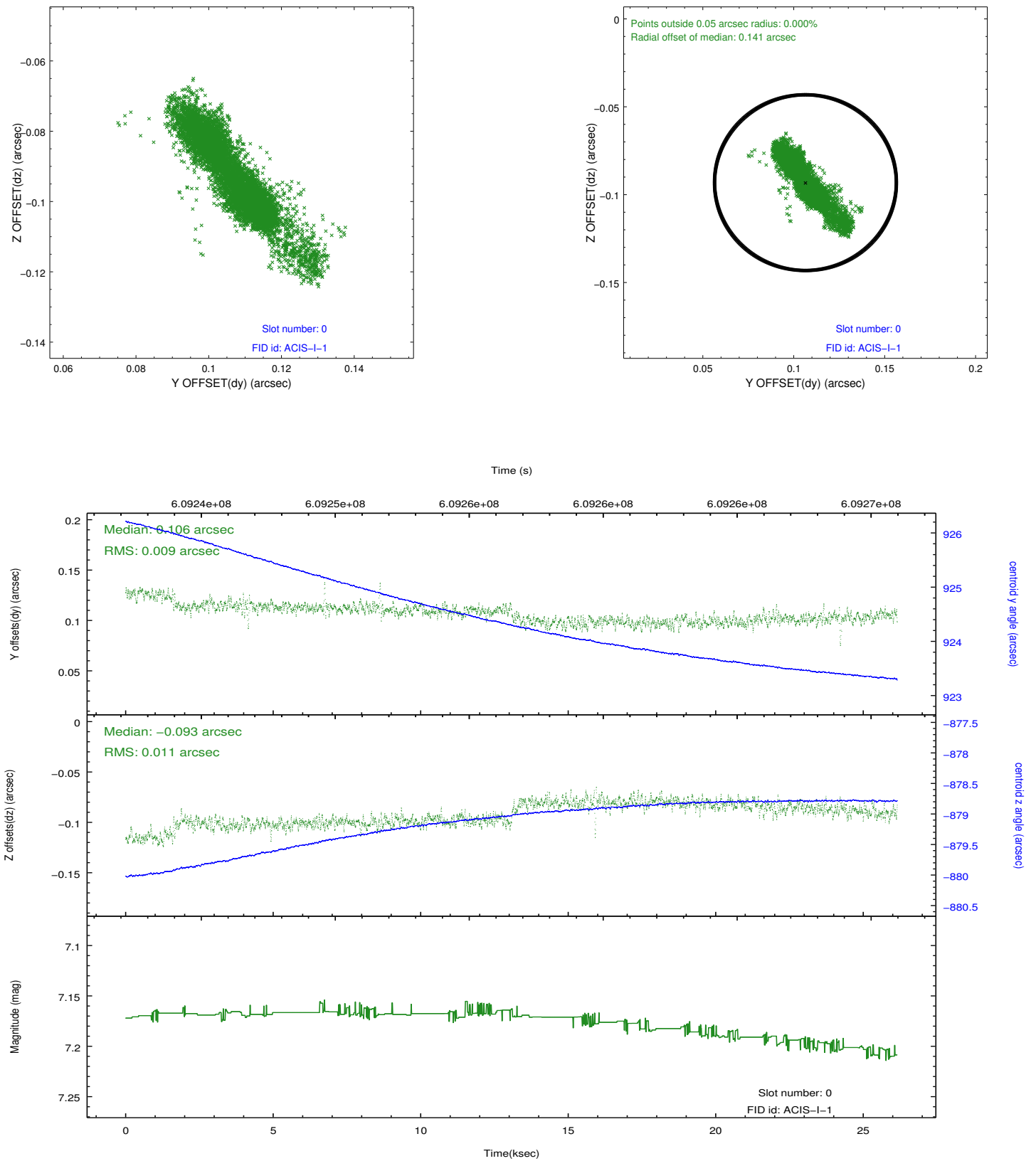


2.4.5 Slot 7

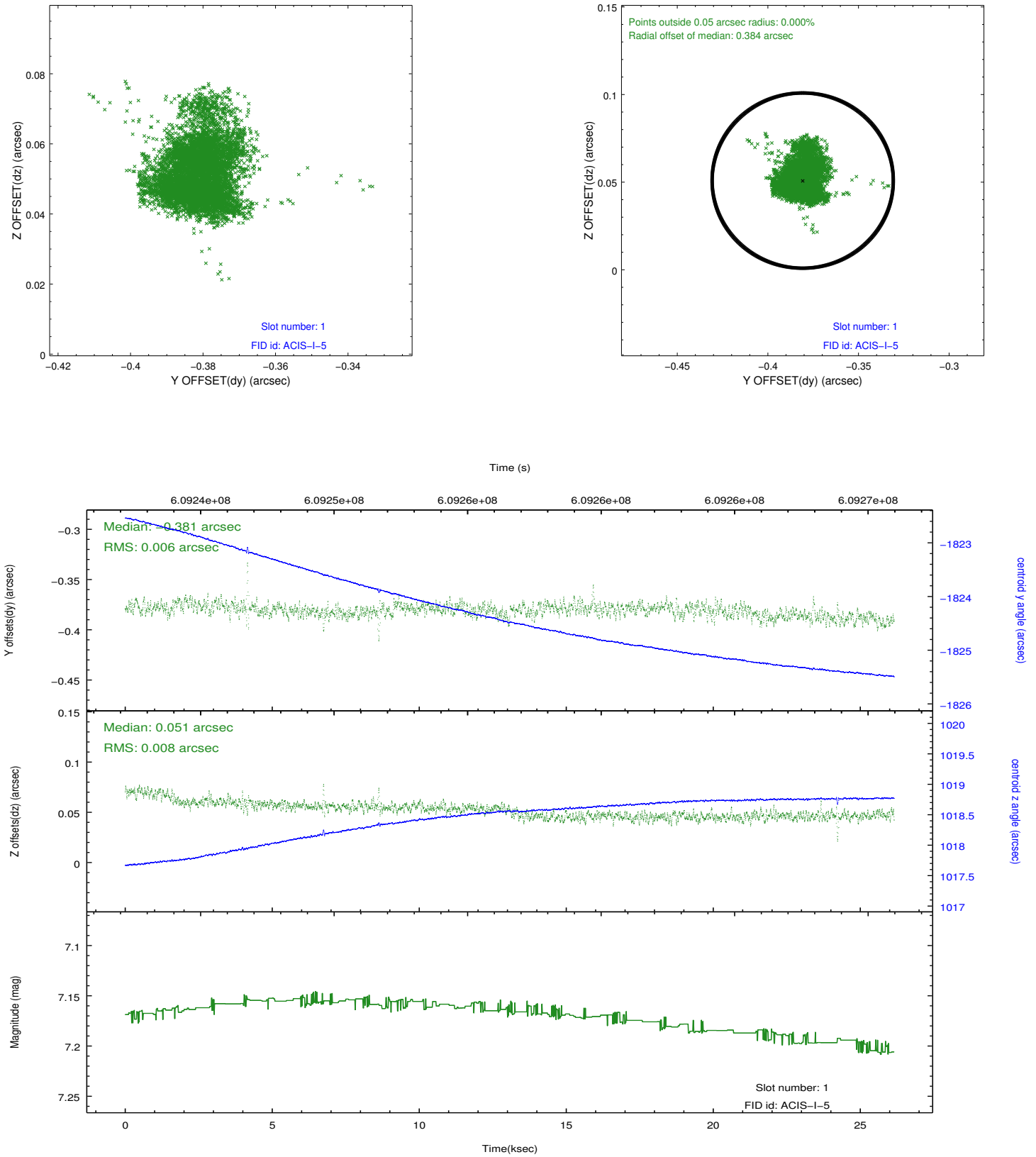


2.5 FID Slots

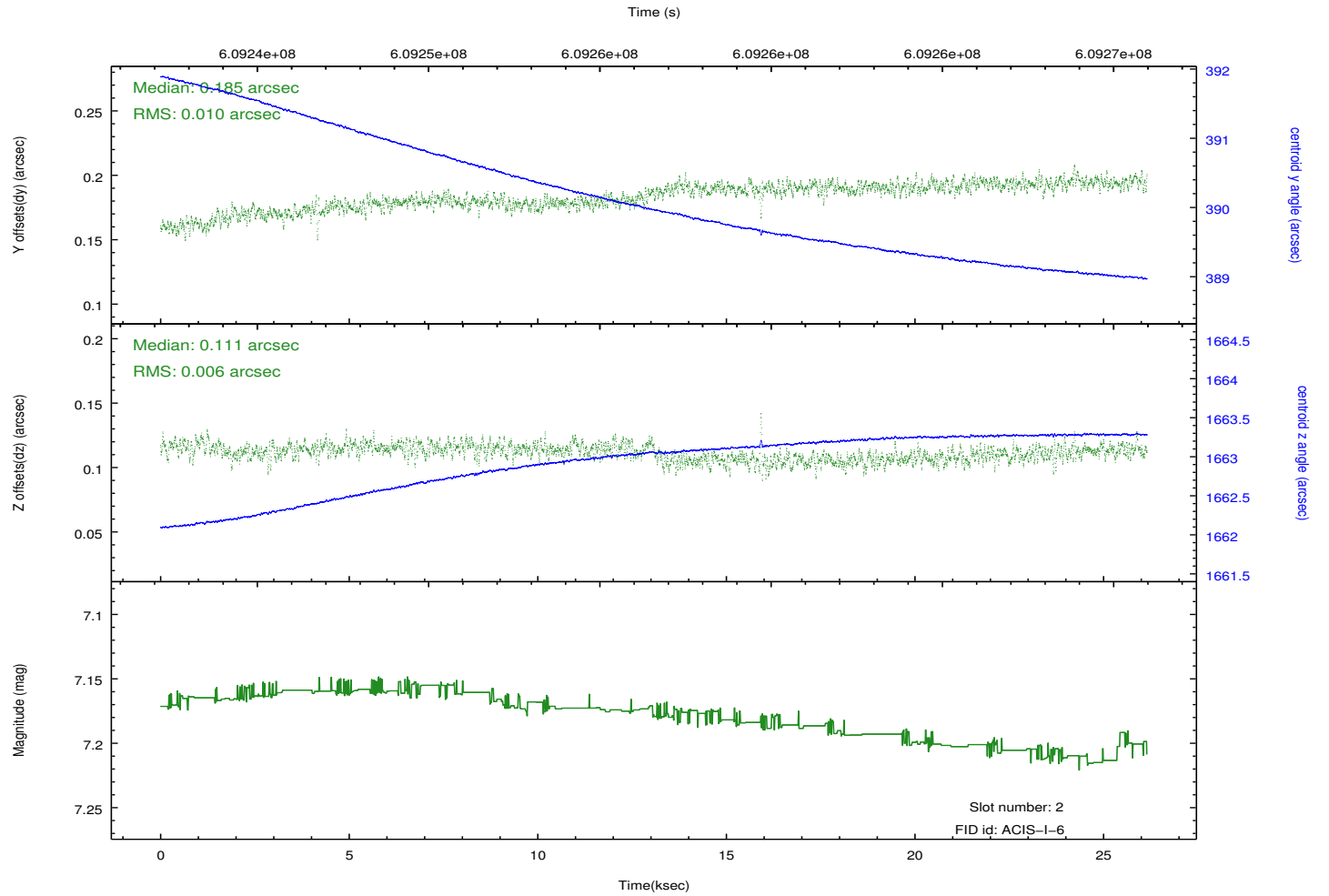
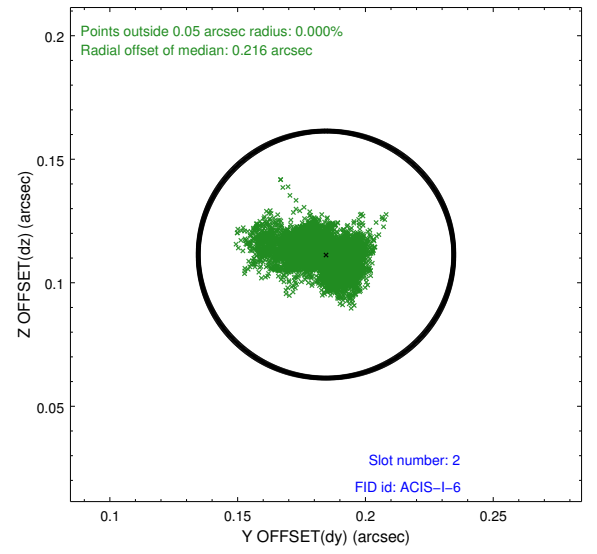
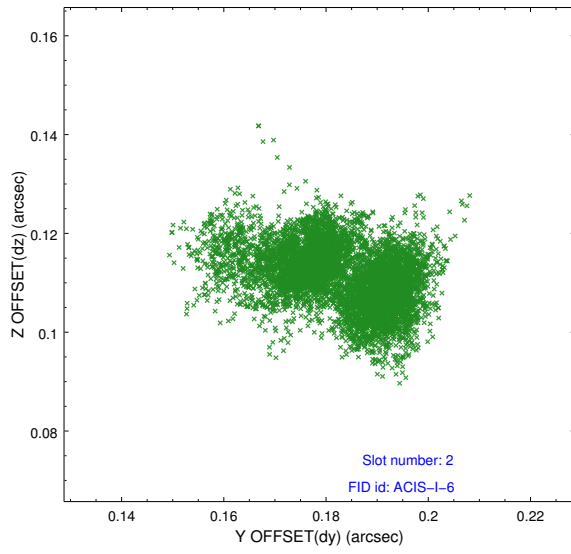
2.5.1 Slot 0



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)	2017.04.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.770259127975

A.2 Comments