

V&V Reference Report

L2 ASCDS Version : 10.8.1

Observation 23109 - L2 Version 1
Chandra X-Ray Center

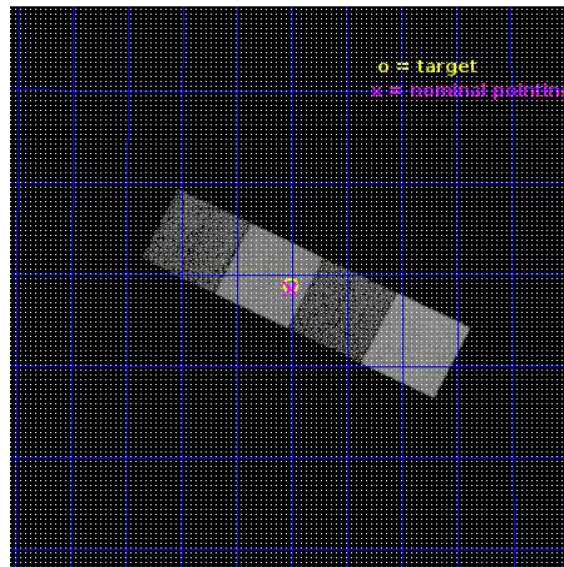
L2 Processing Date : Dec 29 2019

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1 Front

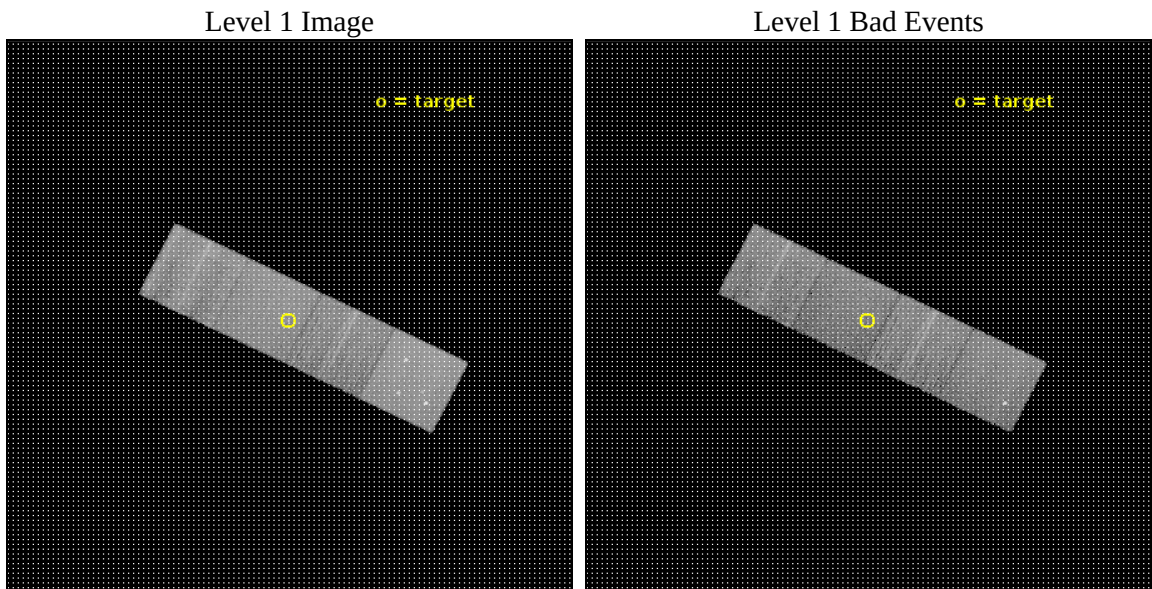
seq_num	704033	Sequence number
obs_id	23109	Observation id
title	C-BASS: A Chandra Legacy Survey of AGN at the Highest Spatial Resolutions	Proposal title
observer	Michael Koss	Principal investigator
object	[HB89]0552+398	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	88.878342	Observer's specified target RA [deg]
dec_targ	39.813641	Observer's specified target Dec [deg]
ra_nom	88.875952353663	Nominal RA [deg]
dec_nom	39.807280643281	Nominal Dec [deg]
roll_nom	206.31335203791	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10061.394104958	Sum of GTIs [s]
livetime	9929.9345838857	Livetime [s]
ontime5	10061.353065014	Sum of GTIs [s]
ontime6	10058.171034813	Sum of GTIs [s]
ontime7	10061.394104958	Sum of GTIs [s]
ontime8	10061.270985007	Sum of GTIs [s]
l2events	118089	Number of level 2 events



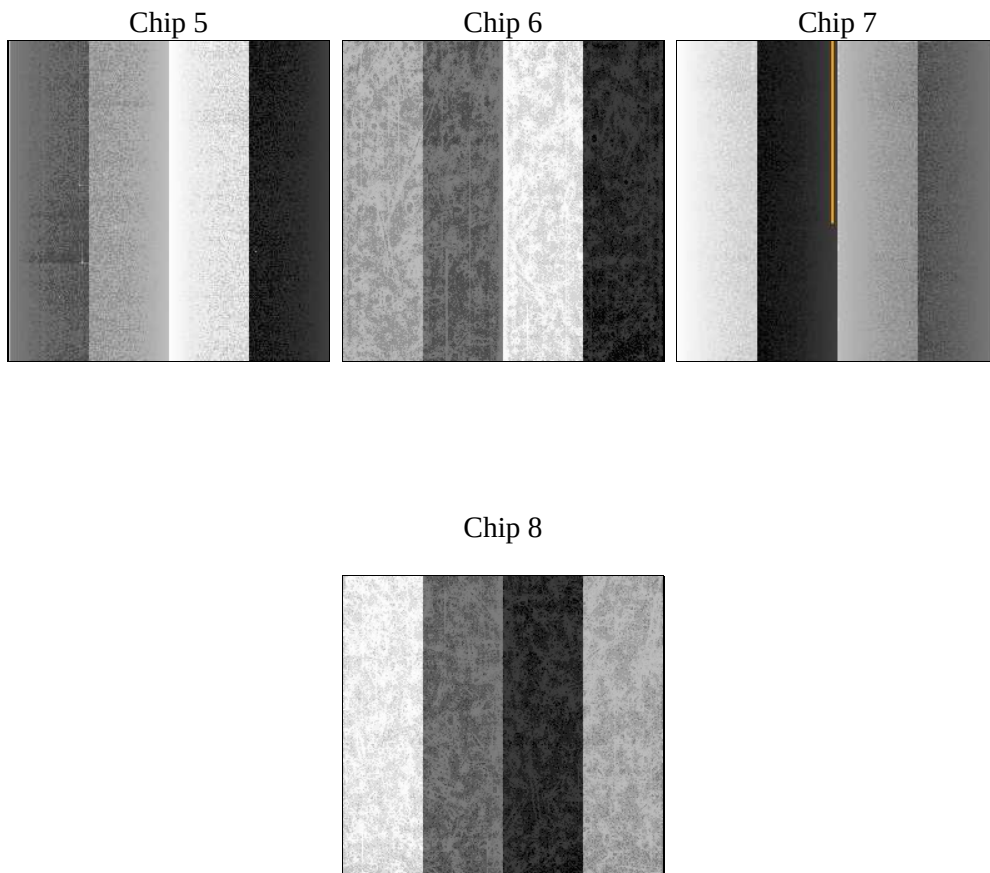
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.8.1	Processing system revision	ontime	10061.394104958	Sum of GTIs [s]
caldsver	4.8.4.2	 	ontime5	10061.353065014	Sum of GTIs [s]
date	2019-12-29T13:36:54	Date and time of file creation	ontime6	10058.171034813	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	10061.394104958	Sum of GTIs [s]
			ontime8	10061.270985007	Sum of GTIs [s]
			l1events	414554	Number of level 1 events

2.1.4 Events

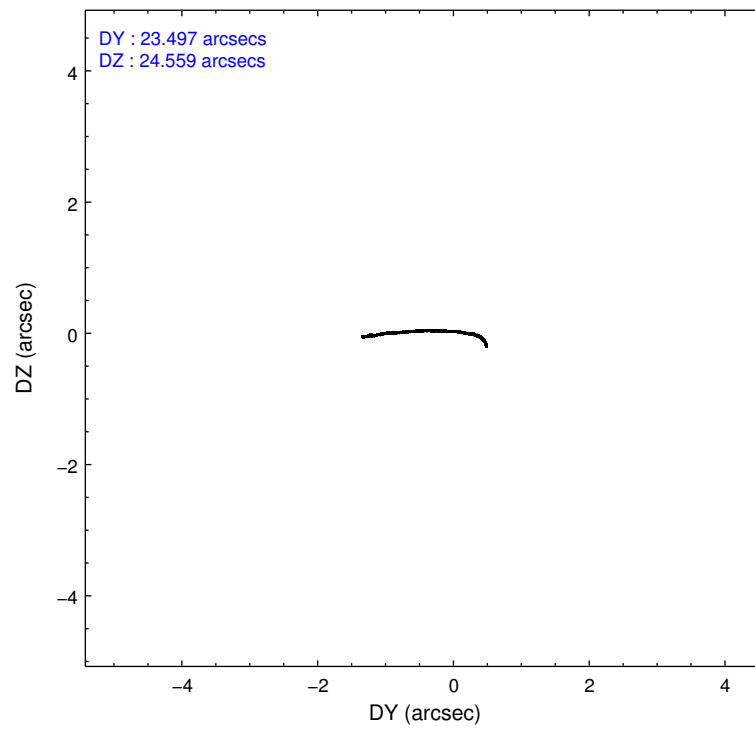
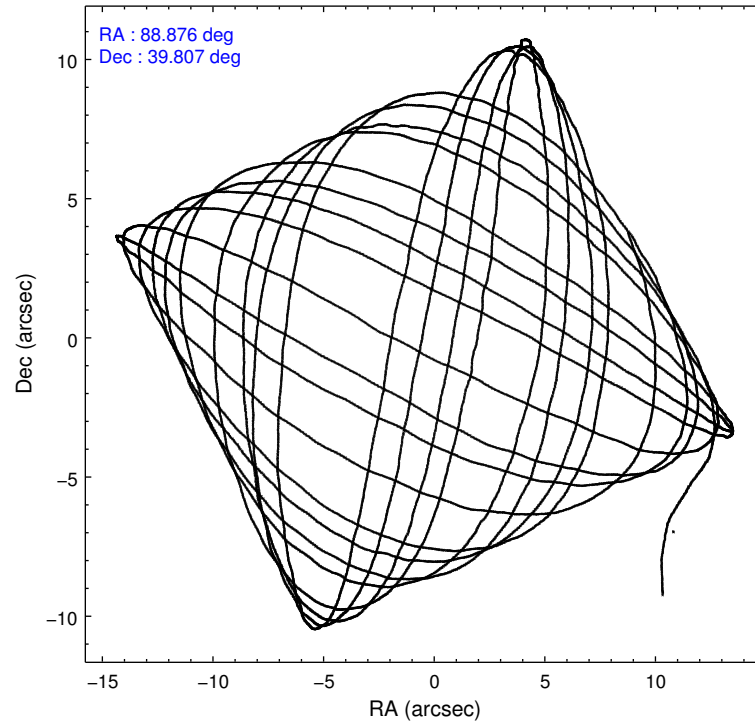
	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	130050	79124	101749	103631
rejected events	66823	70112	56510	73760
rejected %	51%	88%	55%	71%

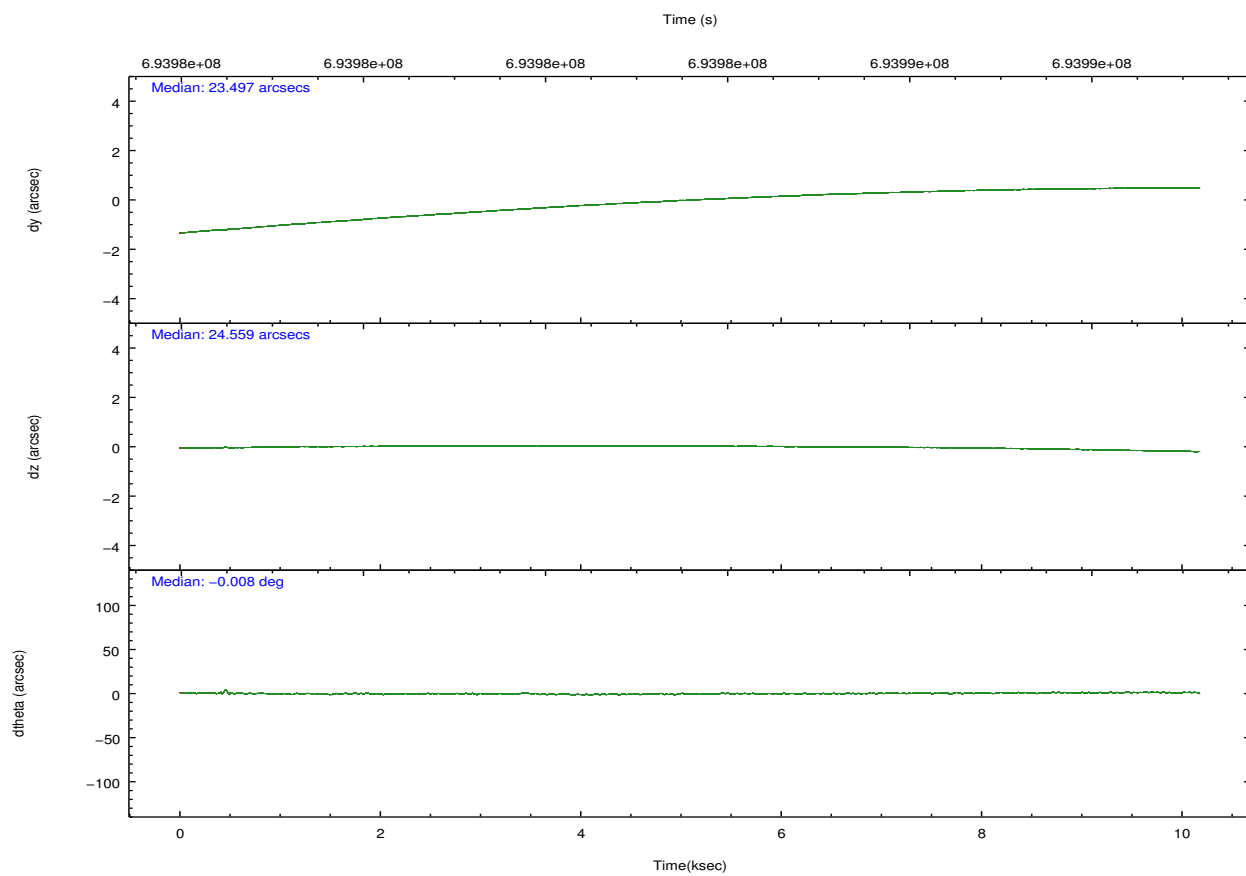
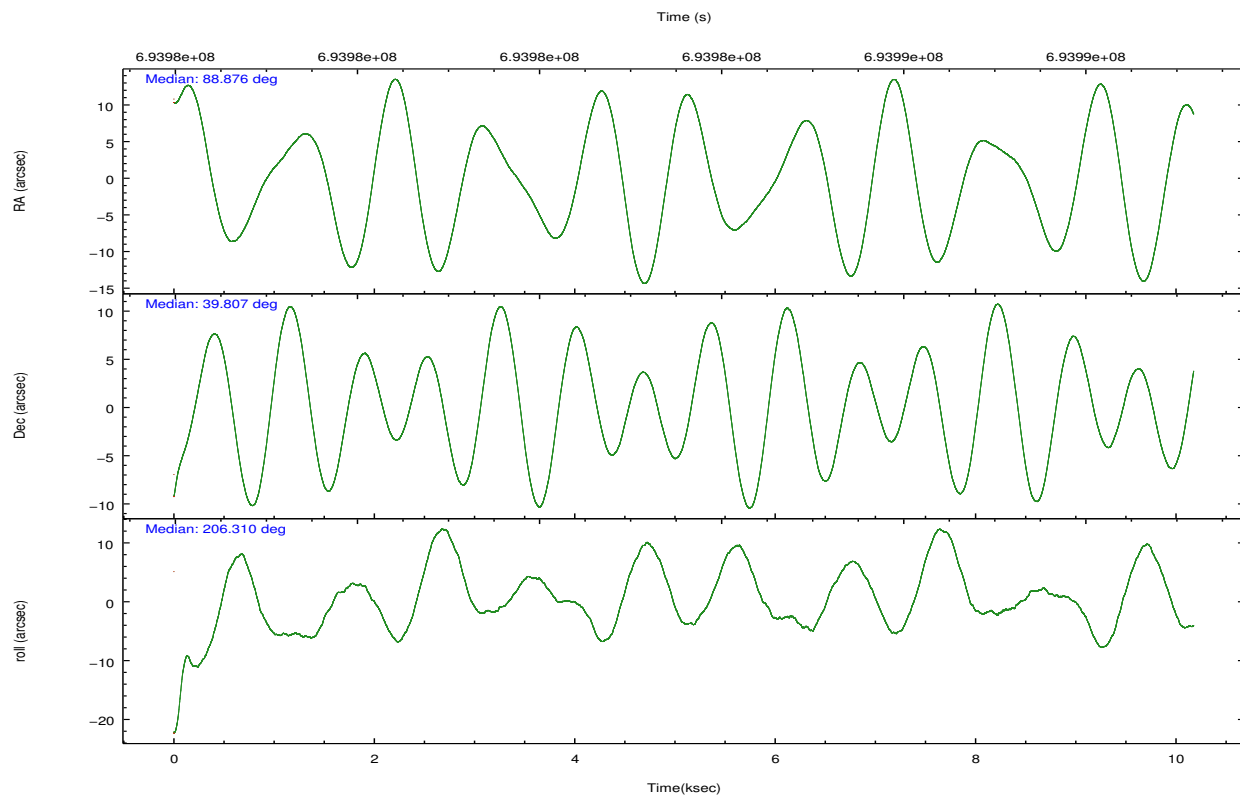
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	7191	3044	3919	8470
	5%	3%	3%	8%
grade 1 events	298	39	169	82
	0%	0%	0%	0%
grade 2 events	19799	2133	9983	7307
	15%	2%	9%	7%
grade 3 events	1862	877	3505	3002
	1%	1%	3%	2%
grade 4 events	1706	861	3490	2918
	1%	1%	3%	2%
grade 5 events	8885	3601	10051	5663
	6%	4%	9%	5%
grade 6 events	32700	2101	24373	8185
	25%	2%	23%	7%
grade 7 events	57609	66468	46259	68004
	44%	84%	45%	65%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-5678	ACIS-5678	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	88.895314	88.87595235366312	CCD I2 on	N	N
[deg] Pointing Dec	39.830358	39.80728064328072	CCD I3 on	N	N
[deg] Pointing Roll	206.144335	206.3133520379076	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)	693978687.184000	693977586.44067	CCD S5 on	N	N
Observation start date	2019-12-29T03:50:18	2019-12-29T03:33:06	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	693988687.184000	693989314.49138	On-chip summing requested	N	N
Observation end date	2019-12-29T06:36:58	2019-12-29T06:48:34	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



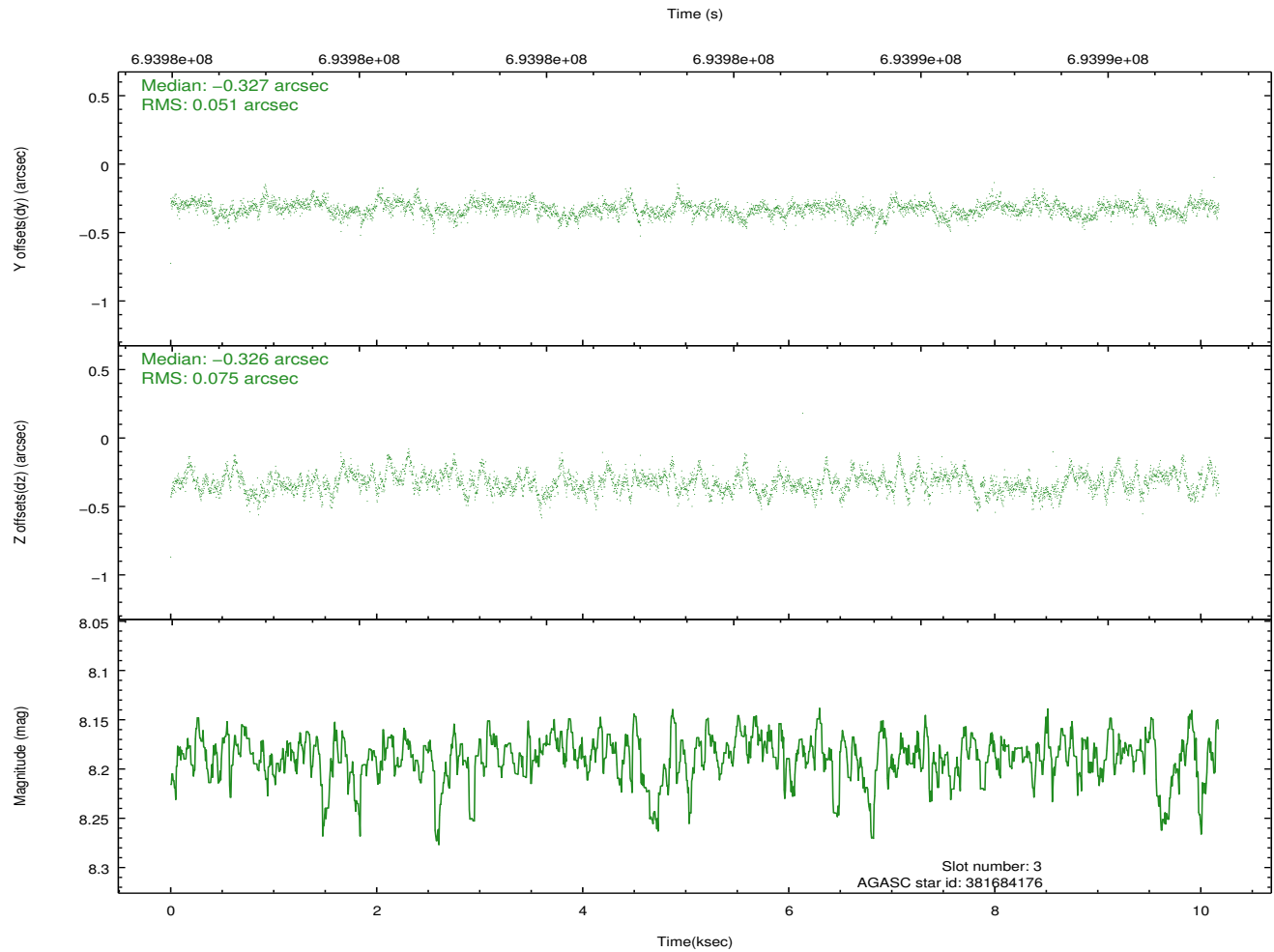
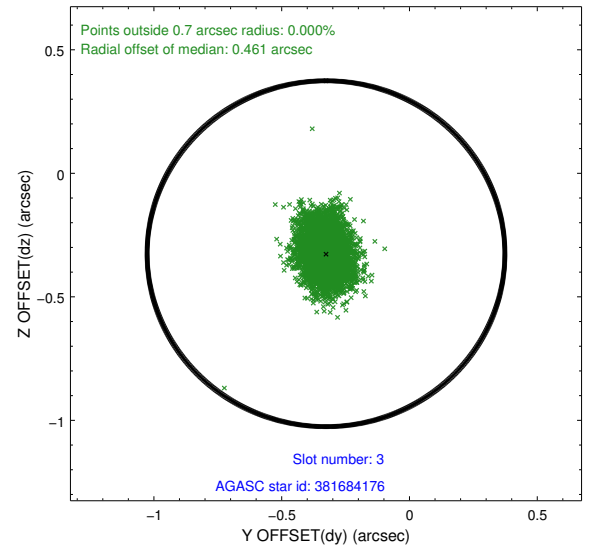
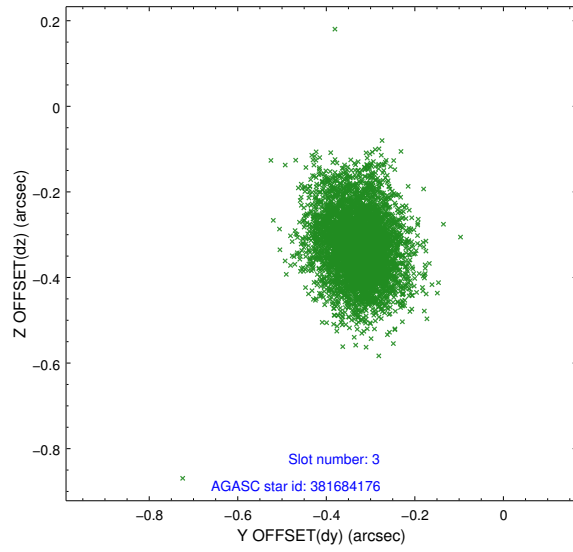


Slot Statistics

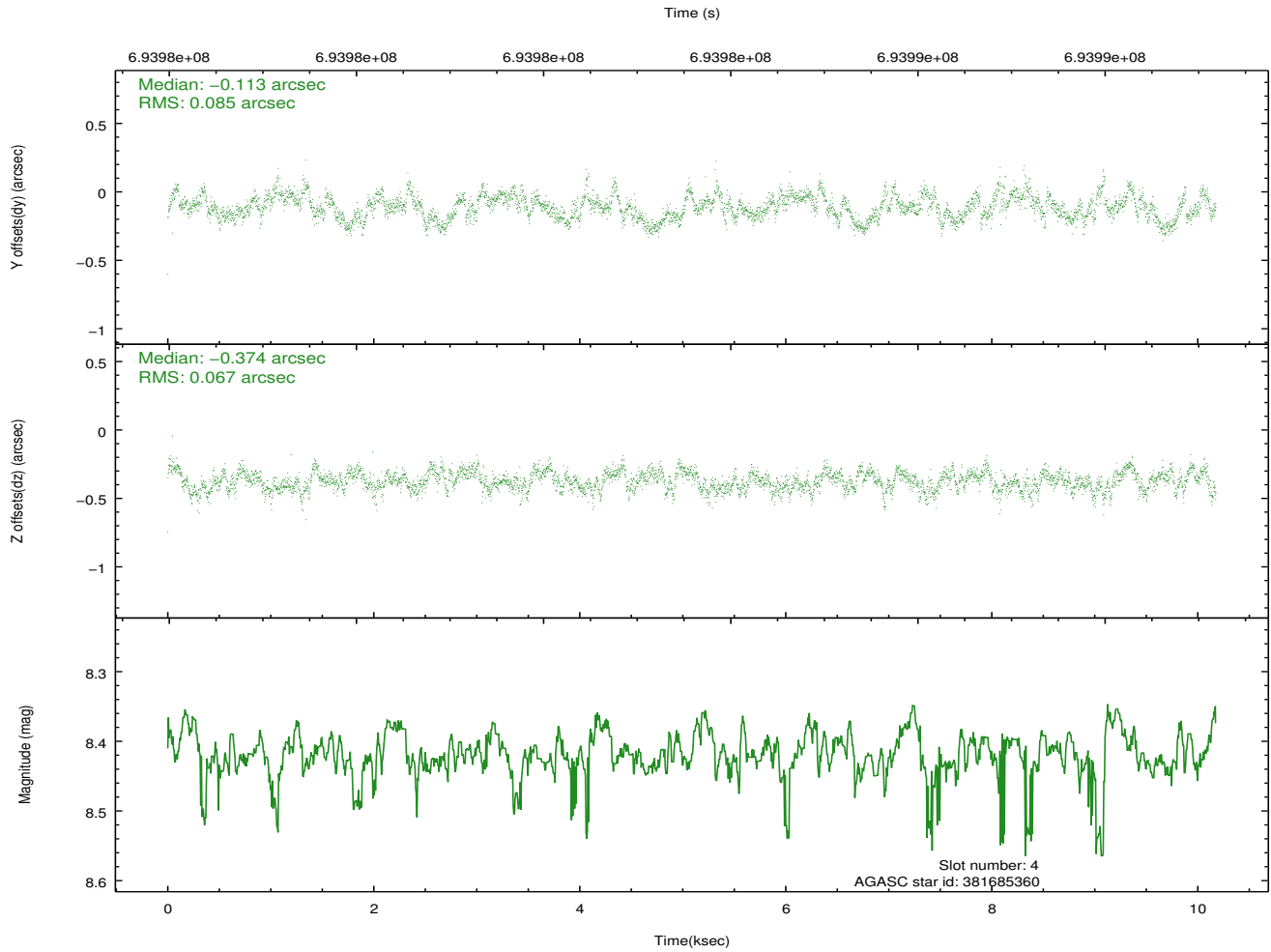
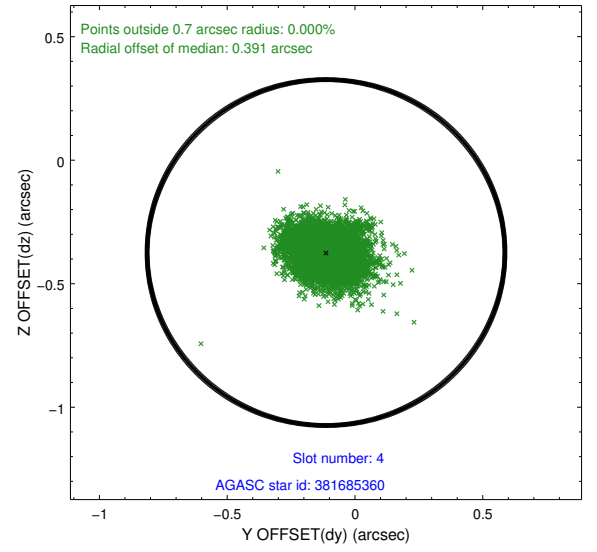
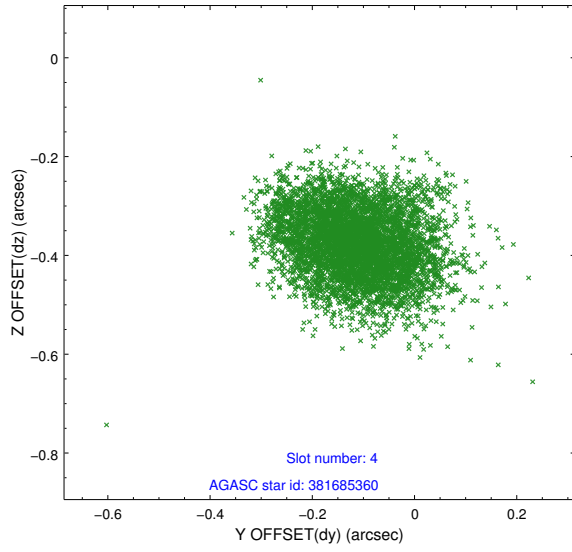
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.04	2483	1.000	-0.414	-0.204	0.032	0.039	0.000000	0.000000	-776.82	-1746
1	FID		ACIS-S-4	7.10	2483	1.000	0.870	0.253	0.049	0.063	0.000000	0.000000	2137.36	162
2	FID		ACIS-S-5	7.11	2483	1.000	-0.489	-0.040	0.020	0.031	0.000000	0.000000	-1829.22	155
3	GUIDE	used	381684176	8.19	4963	1.000	-0.327	-0.326	0.094	0.162	88.656593	39.149025	1677.53	1906
4	GUIDE	used	381685360	8.42	4963	1.000	-0.113	-0.374	0.116	0.183	88.463095	39.232985	2027.78	1396
5	GUIDE	used	381686960	7.81	4962	1.000	-0.091	-0.456	0.102	0.167	88.411998	39.105004	2360.56	1745
6	GUIDE	used	382215424	7.20	4965	1.000	0.412	0.931	0.130	0.221	88.528904	40.388047	16.37	-2246
7	GUIDE	used	382219400	6.85	4964	1.000	0.130	0.226	0.132	0.208	88.165277	39.574708	2219.70	-74

2.4 Star Slots

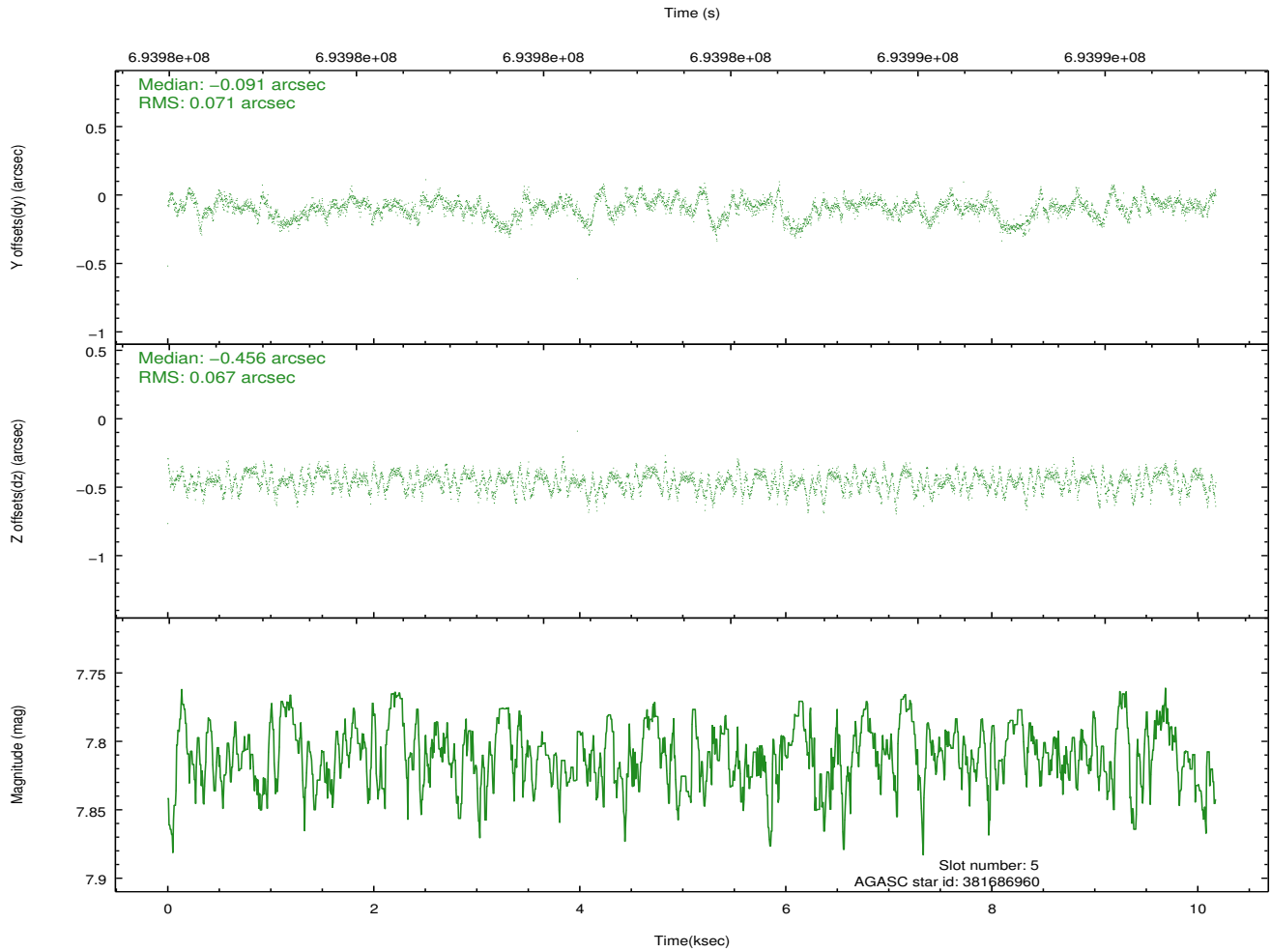
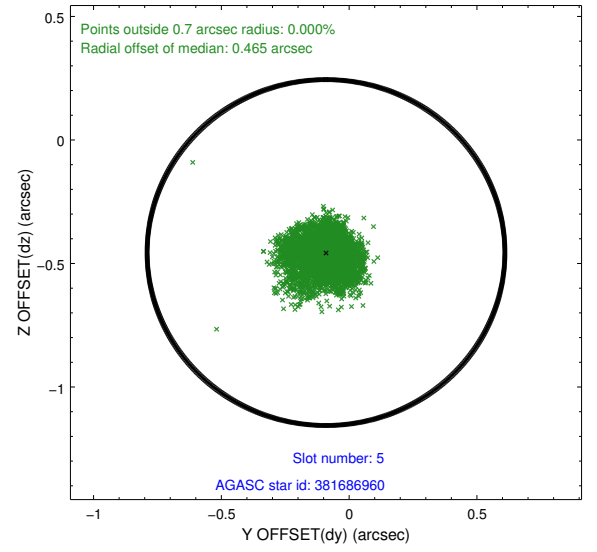
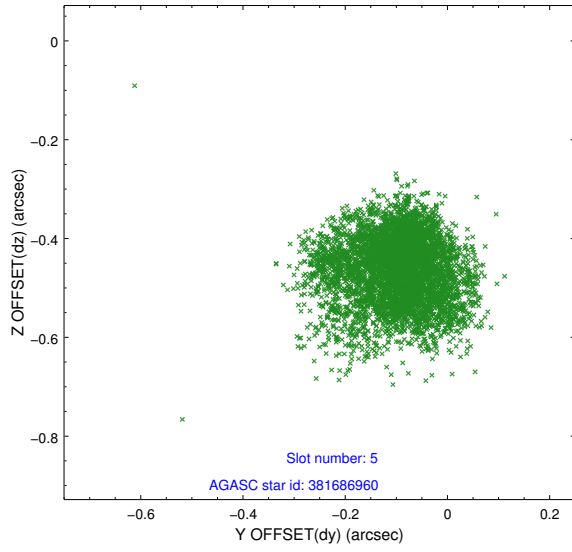
2.4.1 Slot 3



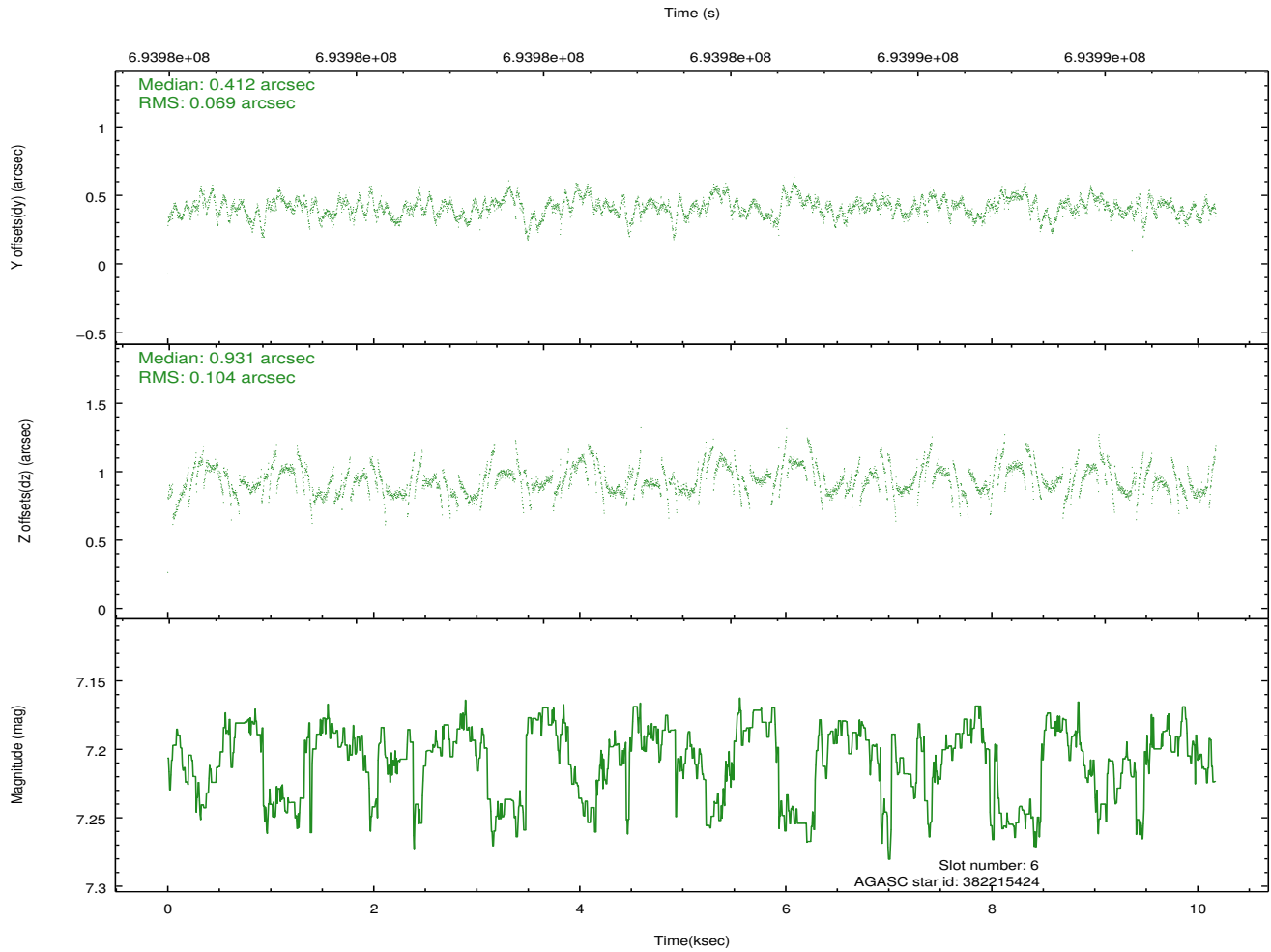
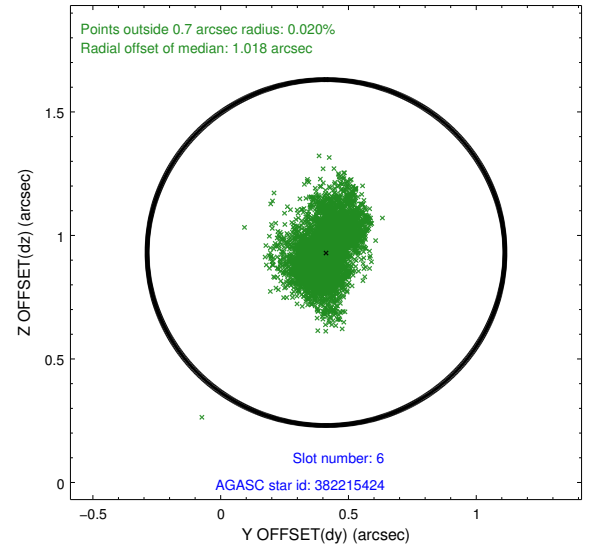
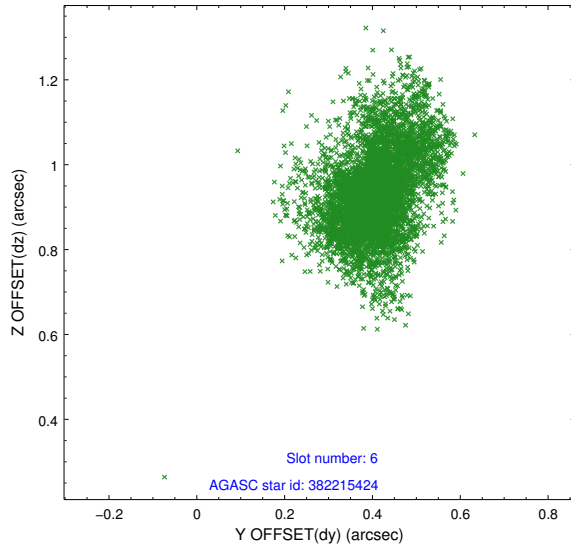
2.4.2 Slot 4



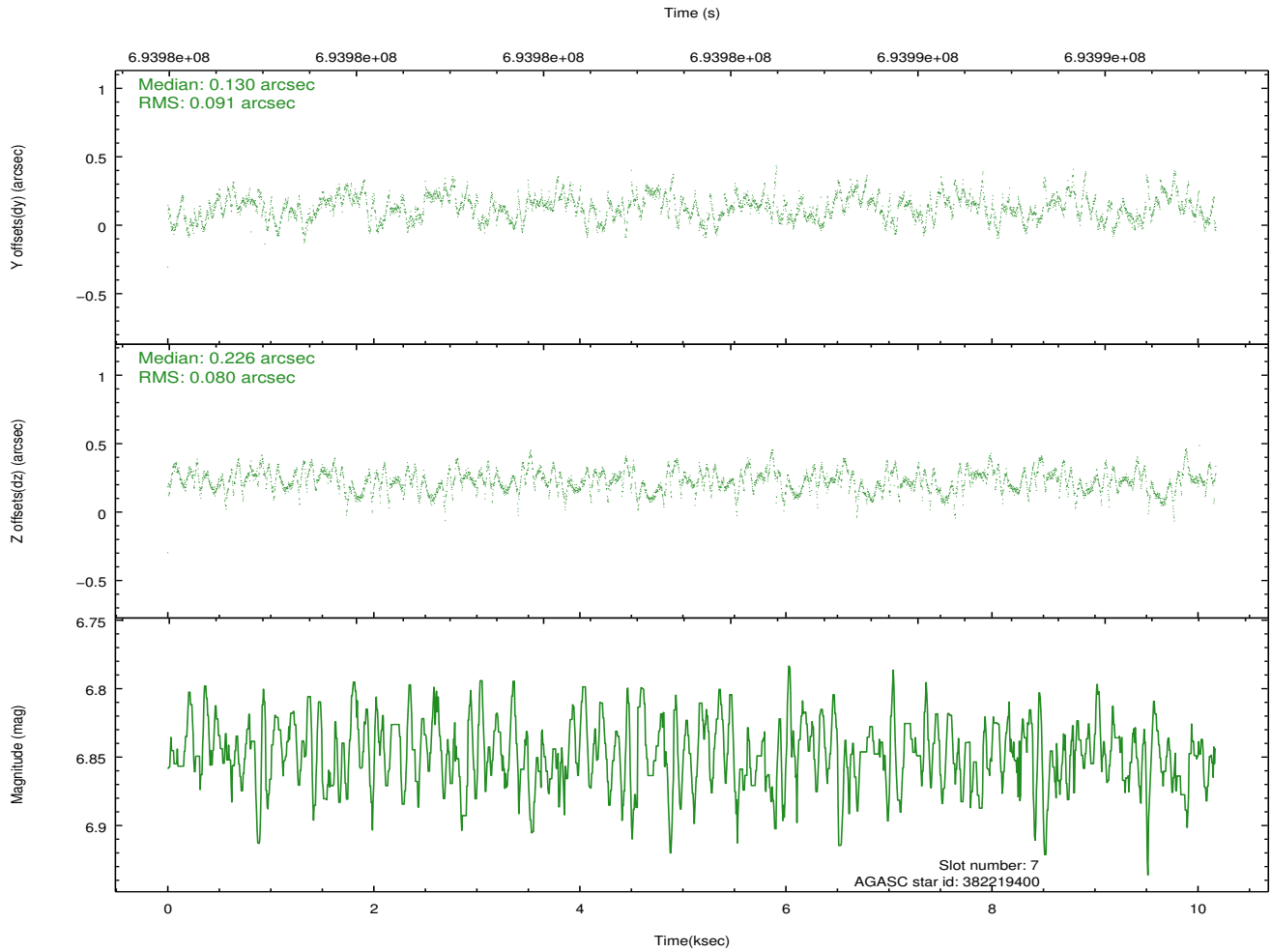
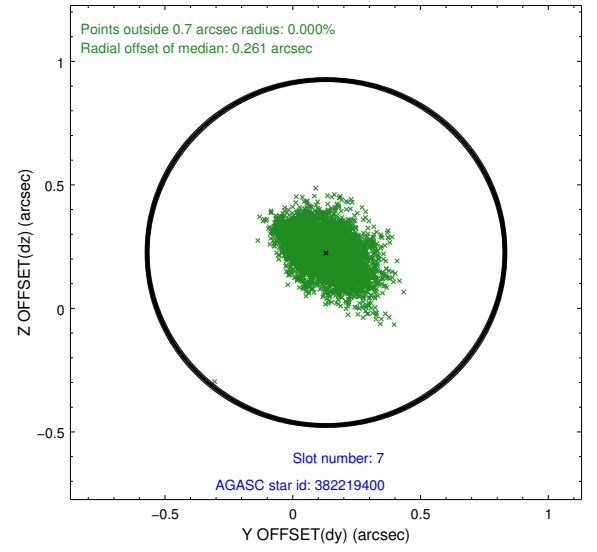
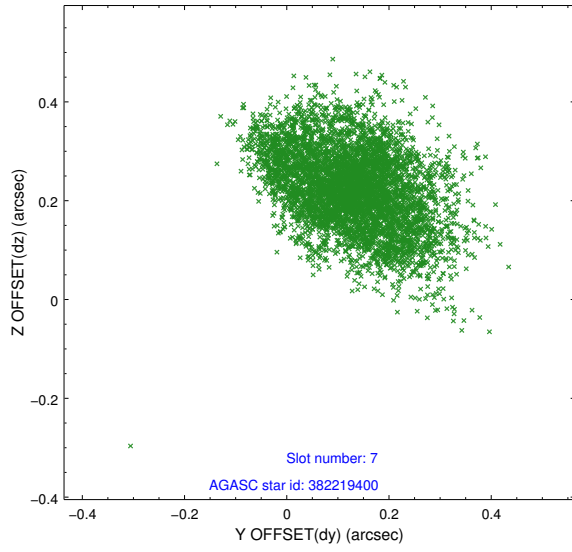
2.4.3 Slot 5



2.4.4 Slot 6

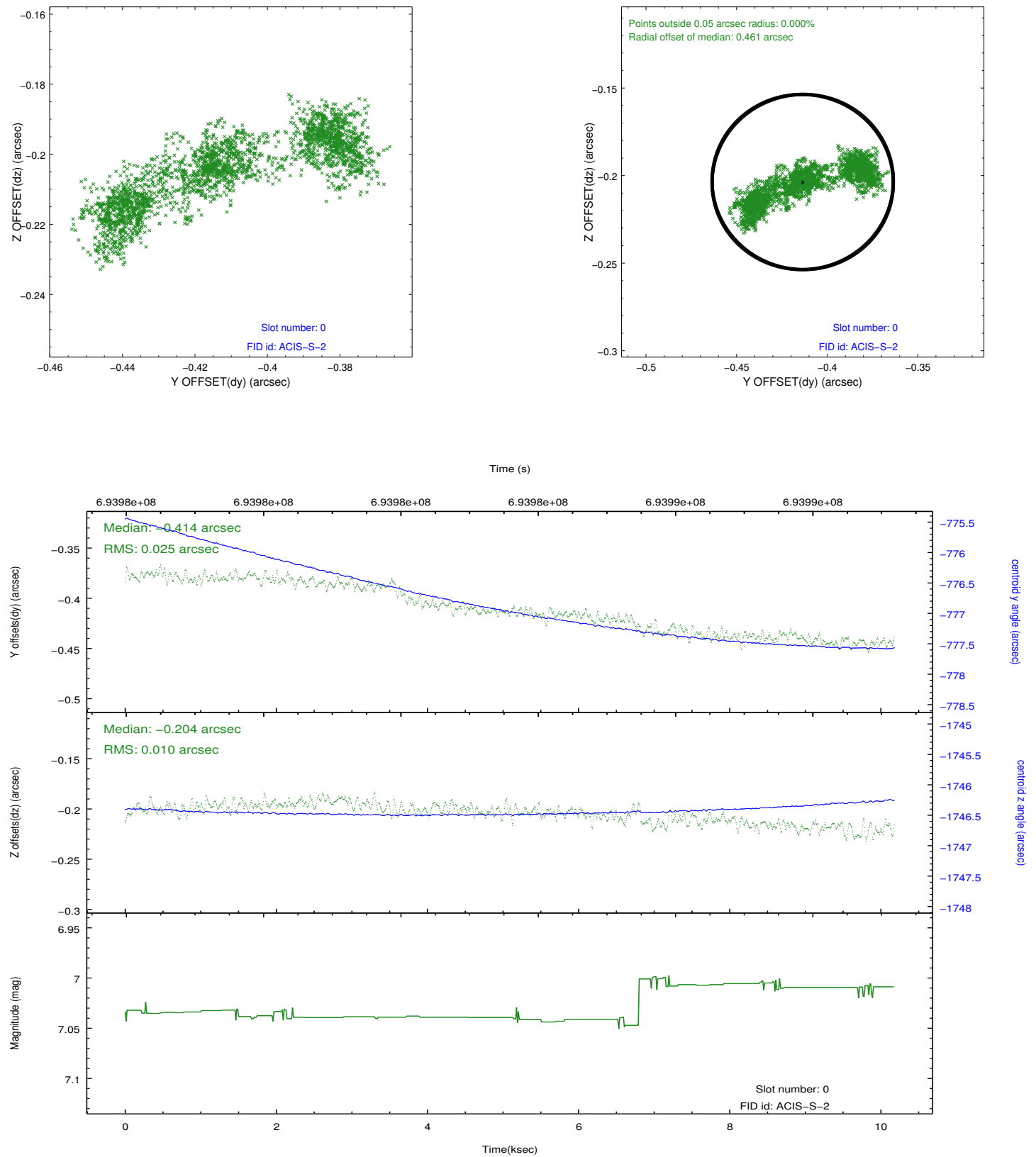


2.4.5 Slot 7

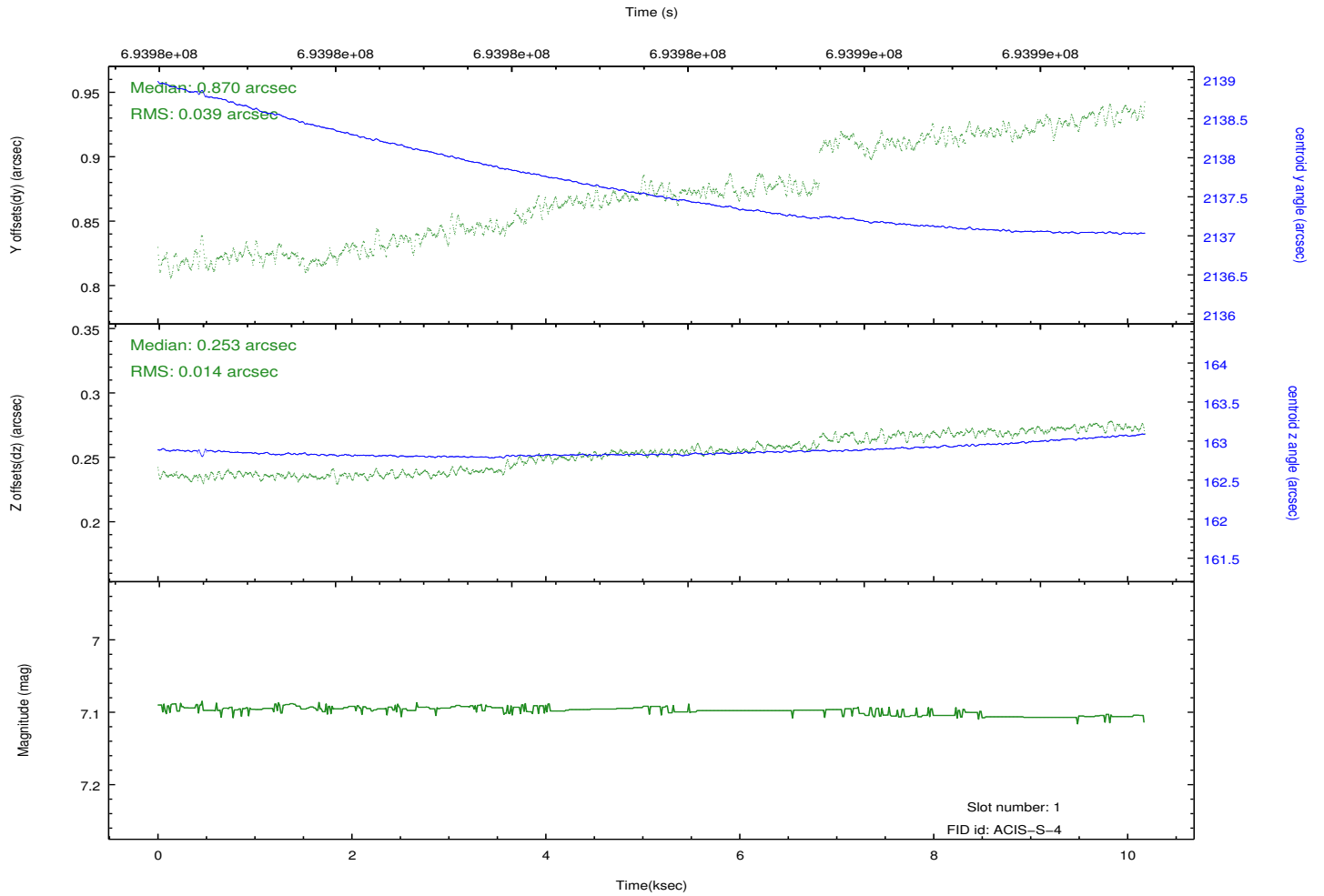
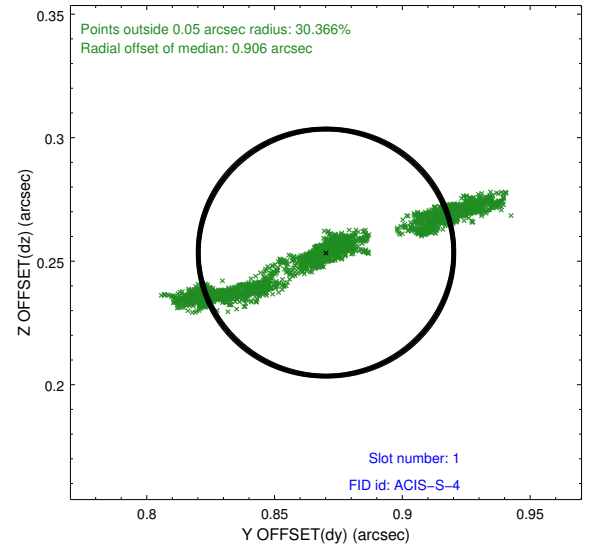
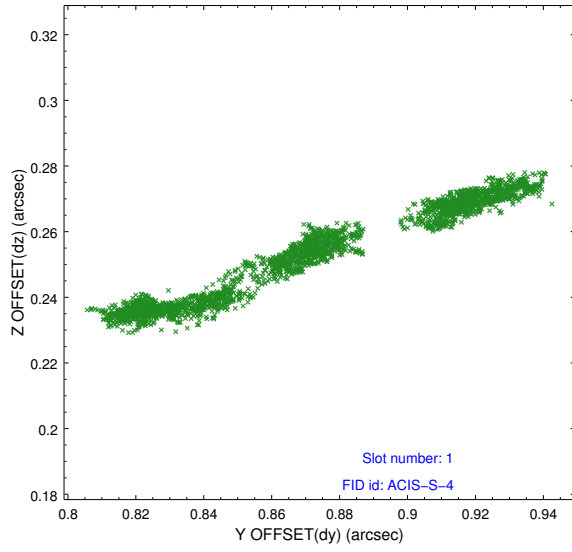


2.5 FID Slots

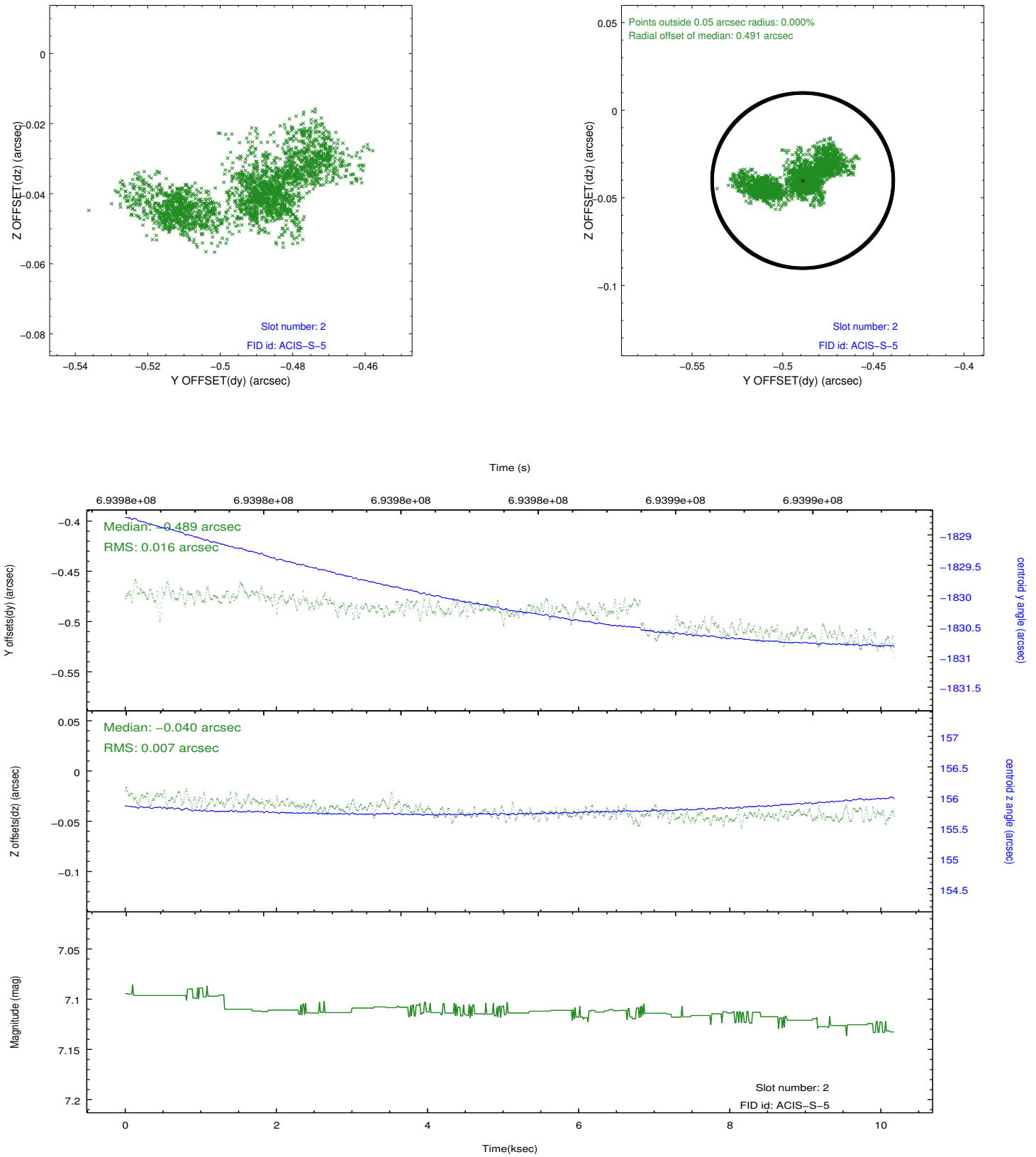
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.01.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.061394104958

A.2 Comments