

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 6127 - L2 Version 4
Chandra X-Ray Center

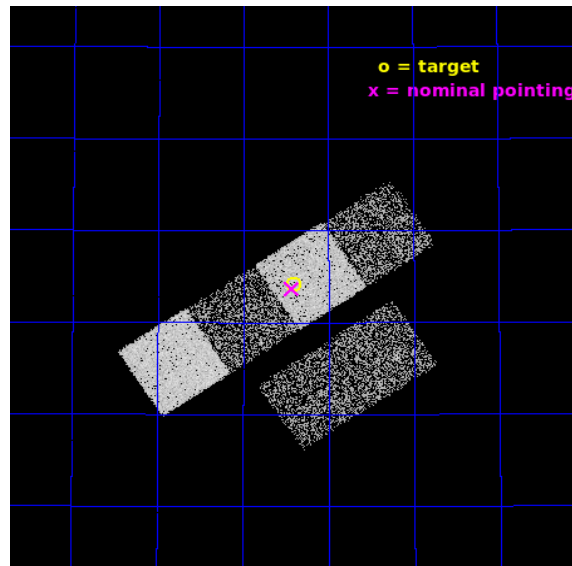
L2 Processing Date : Oct 2 2020

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

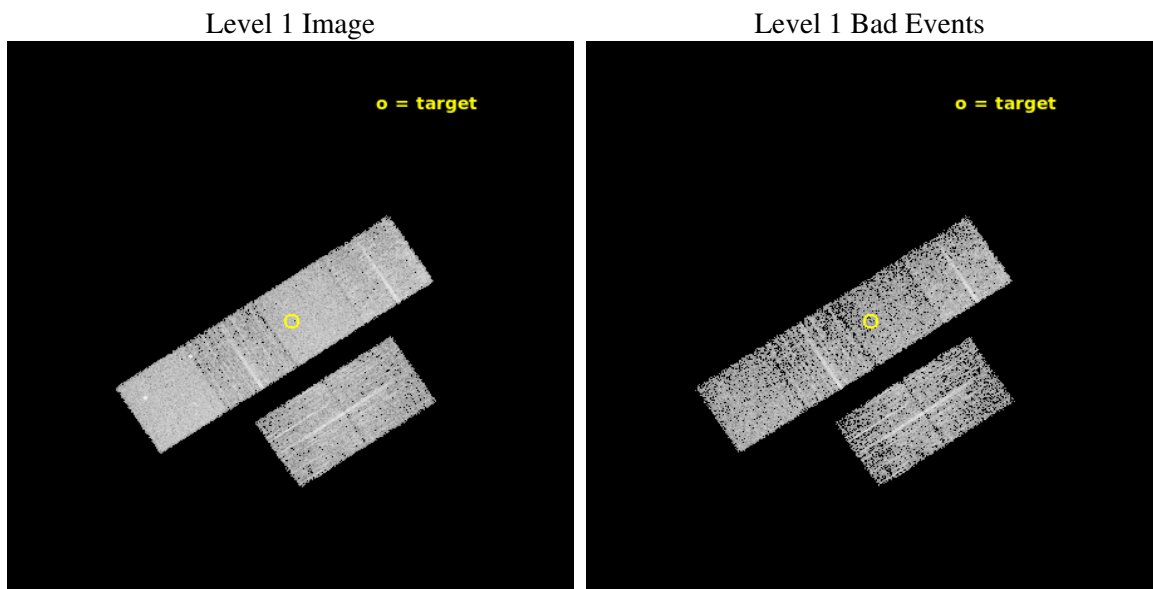
seq_num	700843	Sequence number
obs_id	6127	Observation id
title	Chandra follow-up of giant-amplitude X-ray flares	Proposal title
observer	Dr. Peter Predehl	Principal investigator
object	RX J1420.4+5334	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	215.100833	Observer's specified target RA [deg]
dec_targ	53.569722	Observer's specified target Dec [deg]
ra_nom	215.10701670855	Nominal RA [deg]
dec_nom	53.561591295487	Nominal Dec [deg]
roll_nom	326.65706903518	Nominal Roll [deg]
revision	4	Processing version of data
ontime	3173.9286555946	Sum of GTIs [s]
livetime	3133.7384598471	Livetime [s]
ontime2	3173.9696955979	Sum of GTIs [s]
ontime3	3173.8055355847	Sum of GTIs [s]
ontime5	3173.8876155913	Sum of GTIs [s]
ontime6	3173.846575588	Sum of GTIs [s]
ontime7	3173.9286555946	Sum of GTIs [s]
ontime8	3167.2825351059	Sum of GTIs [s]
l2events	37791	Number of level 2 events



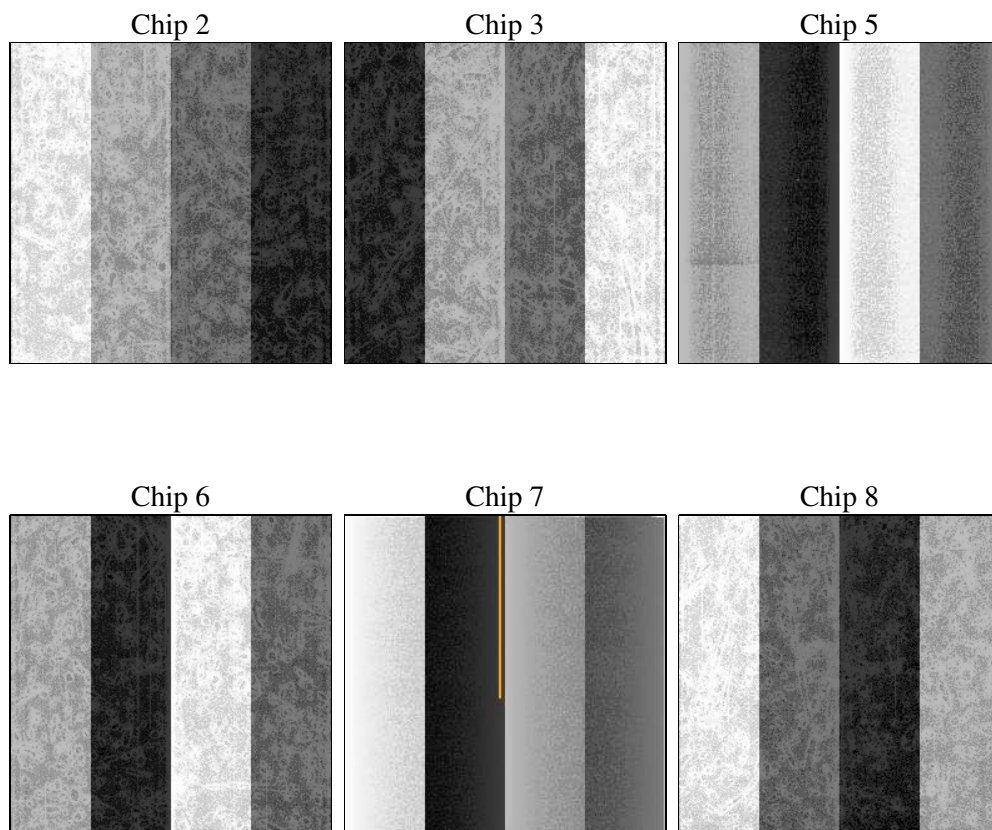
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3420.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	3173.9286555946	Sum of GTIs [s]
caldsver	4.9.2	 	ontime2	3173.9696955979	Sum of GTIs [s]
date	2020-10-02T11:38:42	Date and time of file creation	ontime3	3173.8055355847	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	3173.8876155913	Sum of GTIs [s]
			ontime6	3173.846575588	Sum of GTIs [s]
			ontime7	3173.9286555946	Sum of GTIs [s]
			ontime8	3167.2825351059	Sum of GTIs [s]
			l1events	173815	Number of level 1 events

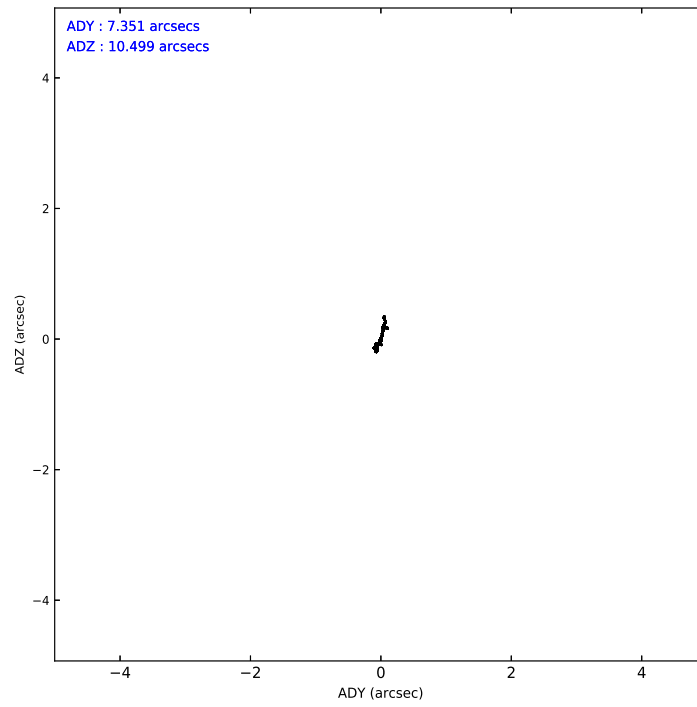
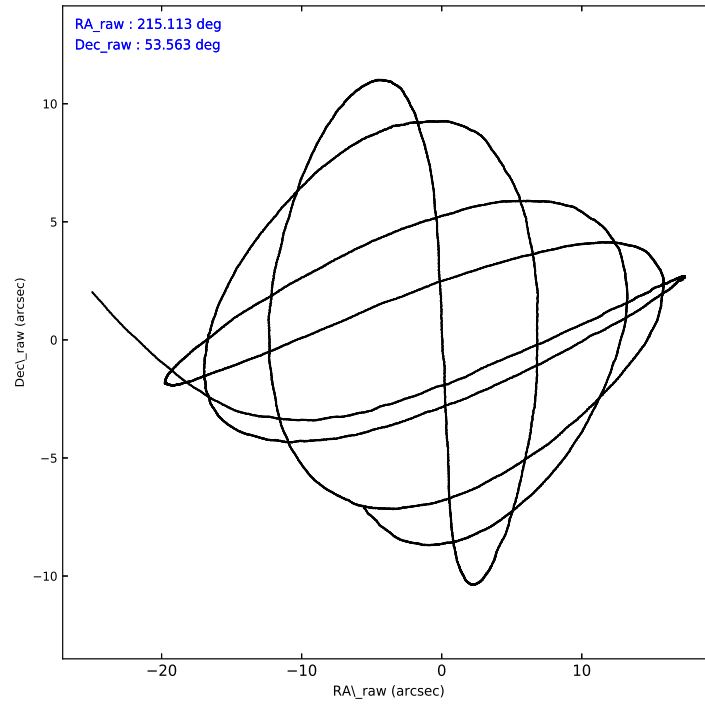
2.1.4 Events

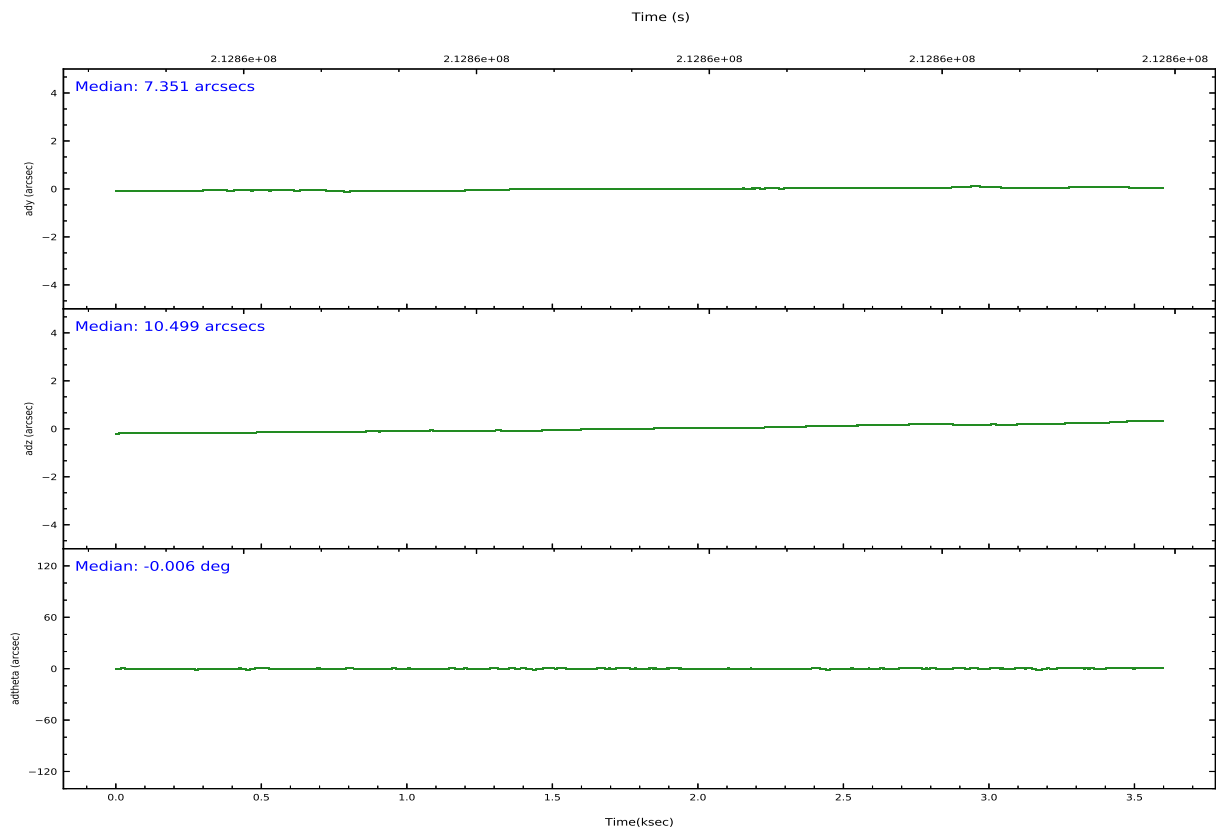
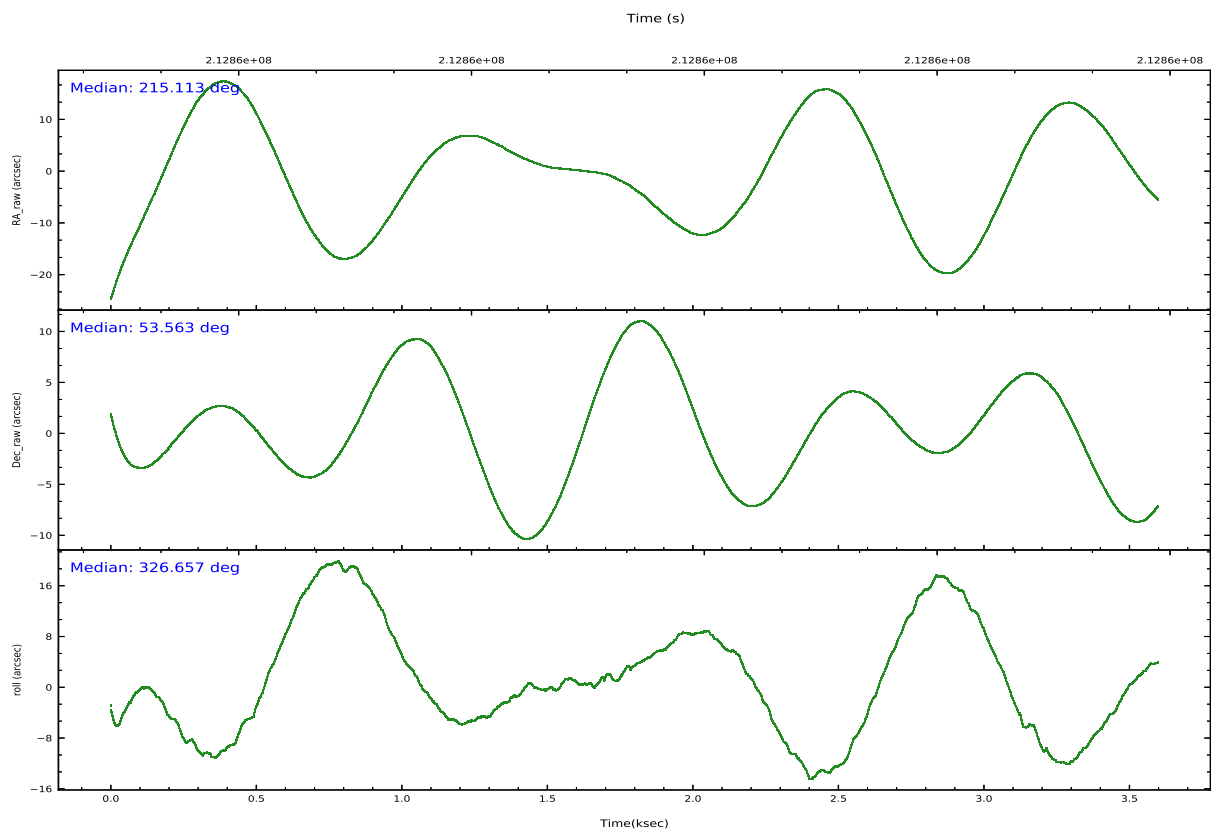
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	25190	23074	35770	25658	32048	32075	grade 0 events	1226	1274	1412	1083	1223	2030
rejected events	22409	20196	19784	22936	18786	25751		4%	5%	3%	4%	3%	6%
rejected %	88%	87%	55%	89%	58%	80%	grade 1 events	11	15	90	11	25	25
								0%	0%	0%	0%	0%	0%
							grade 2 events	551	537	4688	571	2637	1365
								2%	2%	13%	2%	8%	4%
							grade 3 events	263	313	642	268	1126	699
								1%	1%	1%	1%	3%	2%
							grade 4 events	285	283	639	253	1197	619
								1%	1%	1%	0%	3%	1%
							grade 5 events	946	1070	2715	1072	3025	1351
								3%	4%	7%	4%	9%	4%
							grade 6 events	459	478	8632	560	7108	1623
								1%	2%	24%	2%	22%	5%
							grade 7 events	21449	19104	16952	21840	15707	24363
								85%	82%	47%	85%	49%	75%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	215.066865	215.10701670855	Subarray requested	NONE	NONE
[deg] Pointing Dec	53.564291	53.561591295487	Alternating exposures requested	N	N
[deg] Pointing Roll	326.532695	326.65706903518	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	212855740.184000	212855011.63738			
Observation start date	2004-09-29T14:34:36	2004-09-29T14:23:31			
[s] Observation end time (MET)	212859160.184000	212859630.28758			
Observation end date	2004-09-29T15:31:36	2004-09-29T15:40:30			
Read mode	TIMED	TIMED			

2.3 Aspect



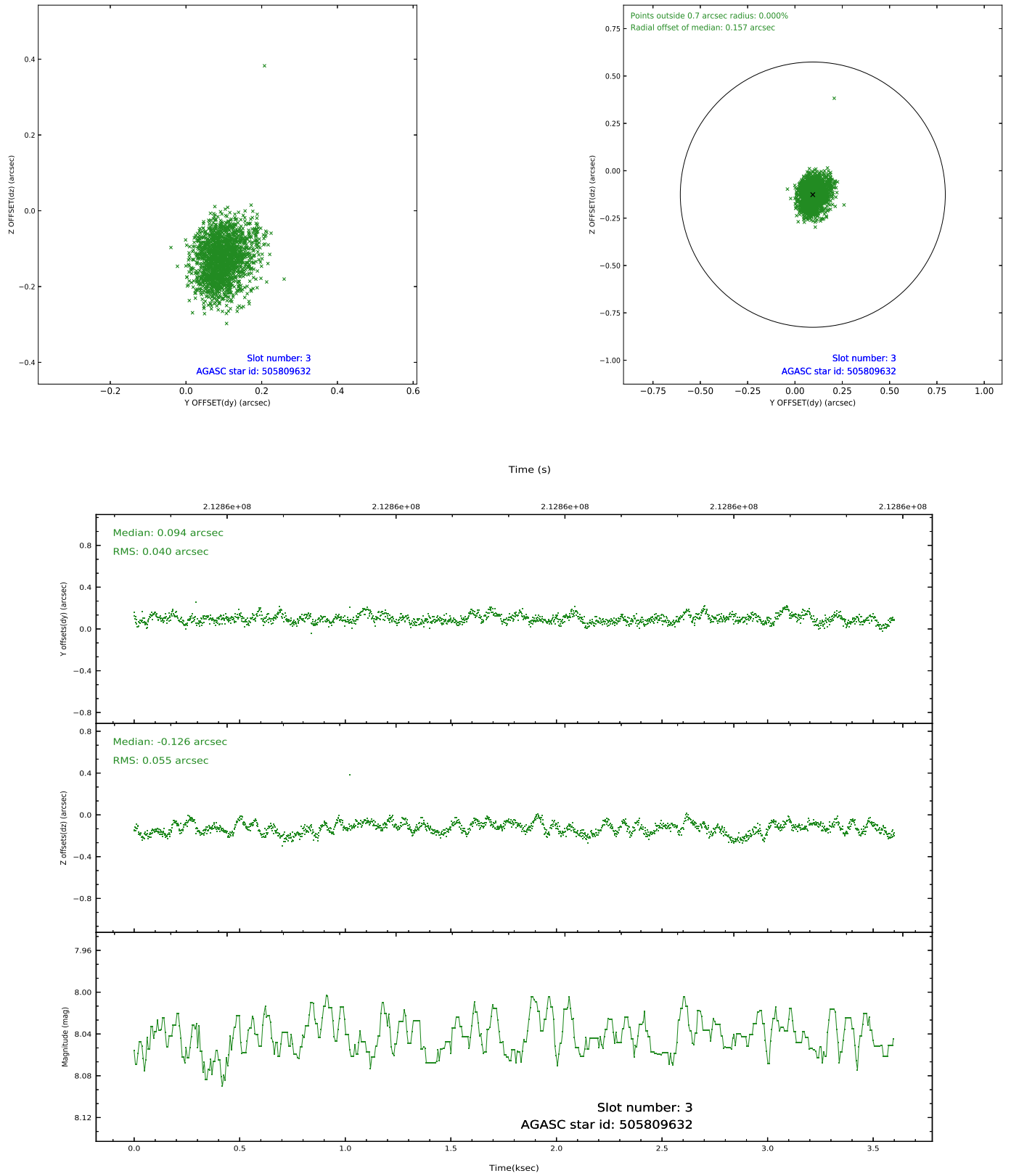


Slot Statistics

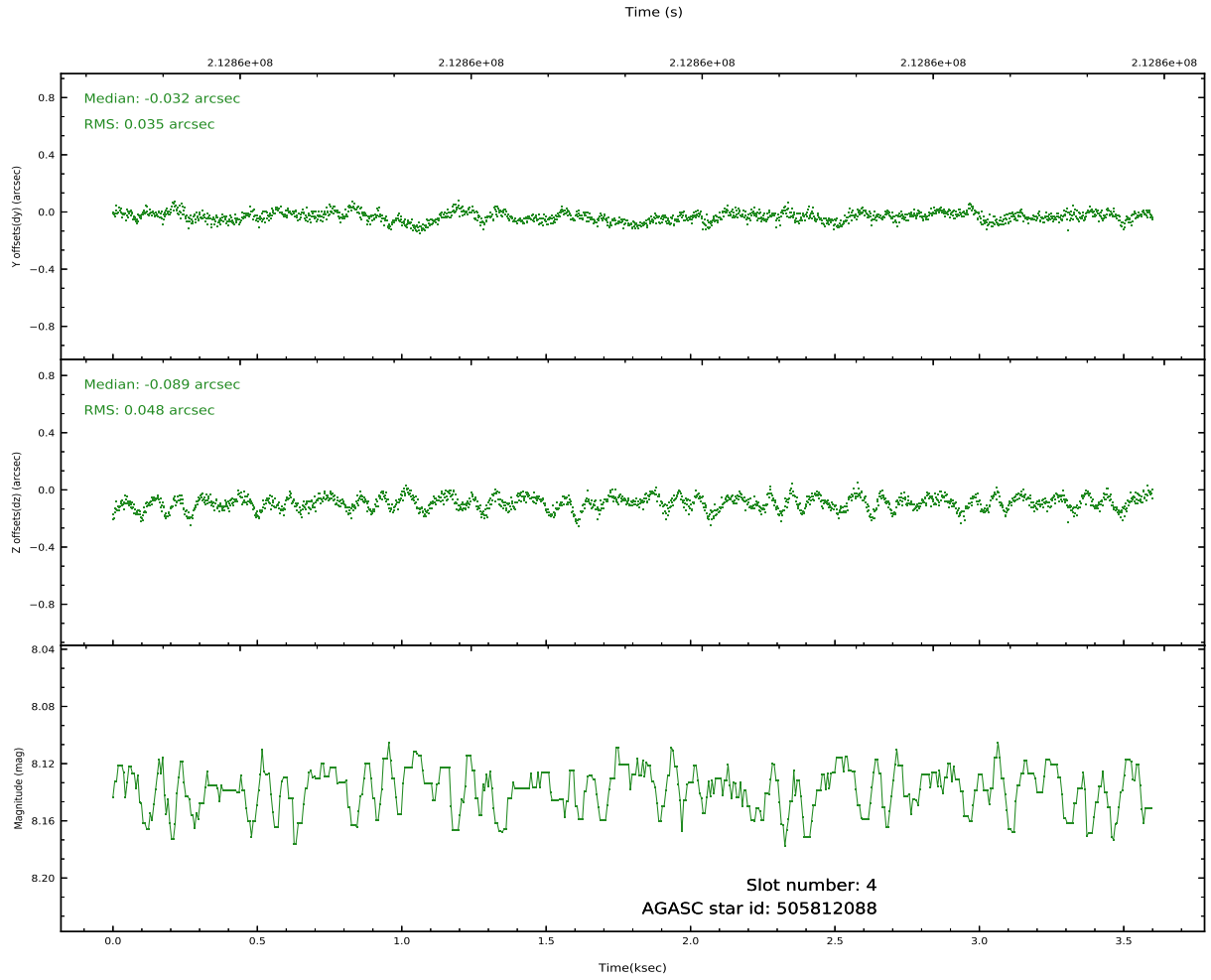
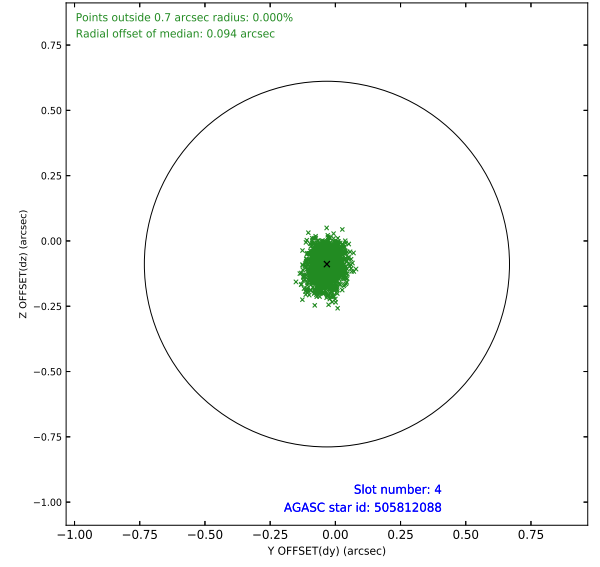
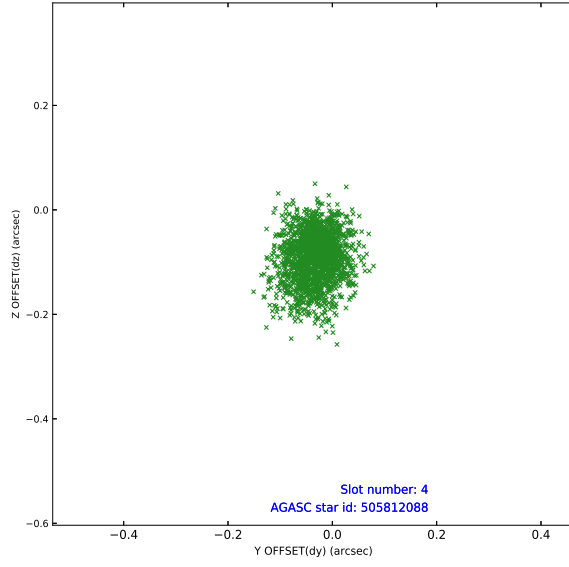
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.18	877	1.000	0.048	-0.087	0.012	0.021	0.000000	0.000000	936.00	-1727
1	FID		ACIS-S-5	7.23	879	1.000	-0.106	0.016	0.006	0.011	0.000000	0.000000	-1812.19	168
2	FID		ACIS-S-6	7.35	878	1.000	0.037	0.083	0.011	0.018	0.000000	0.000000	399.62	814
3	GUIDE	used	505809632	8.04	1757	1.000	0.094	-0.126	0.072	0.116	215.499426	53.521185	856.07	383
4	GUIDE	used	505812088	8.14	1756	1.000	-0.032	-0.089	0.063	0.104	214.186617	53.263562	-990.46	-1938
5	GUIDE	used	505815088	7.30	1757	1.000	-0.137	0.023	0.054	0.098	216.315963	53.584954	2172.28	1552
6	GUIDE	used	505817176	8.26	1757	1.000	-0.031	0.016	0.055	0.092	216.408138	53.717379	2065.43	2059
7	GUIDE	used	505811688	9.91	1754	1.000	0.099	0.182	0.110	0.183	214.148747	53.627794	-1767.10	-878

2.4 Star Slots

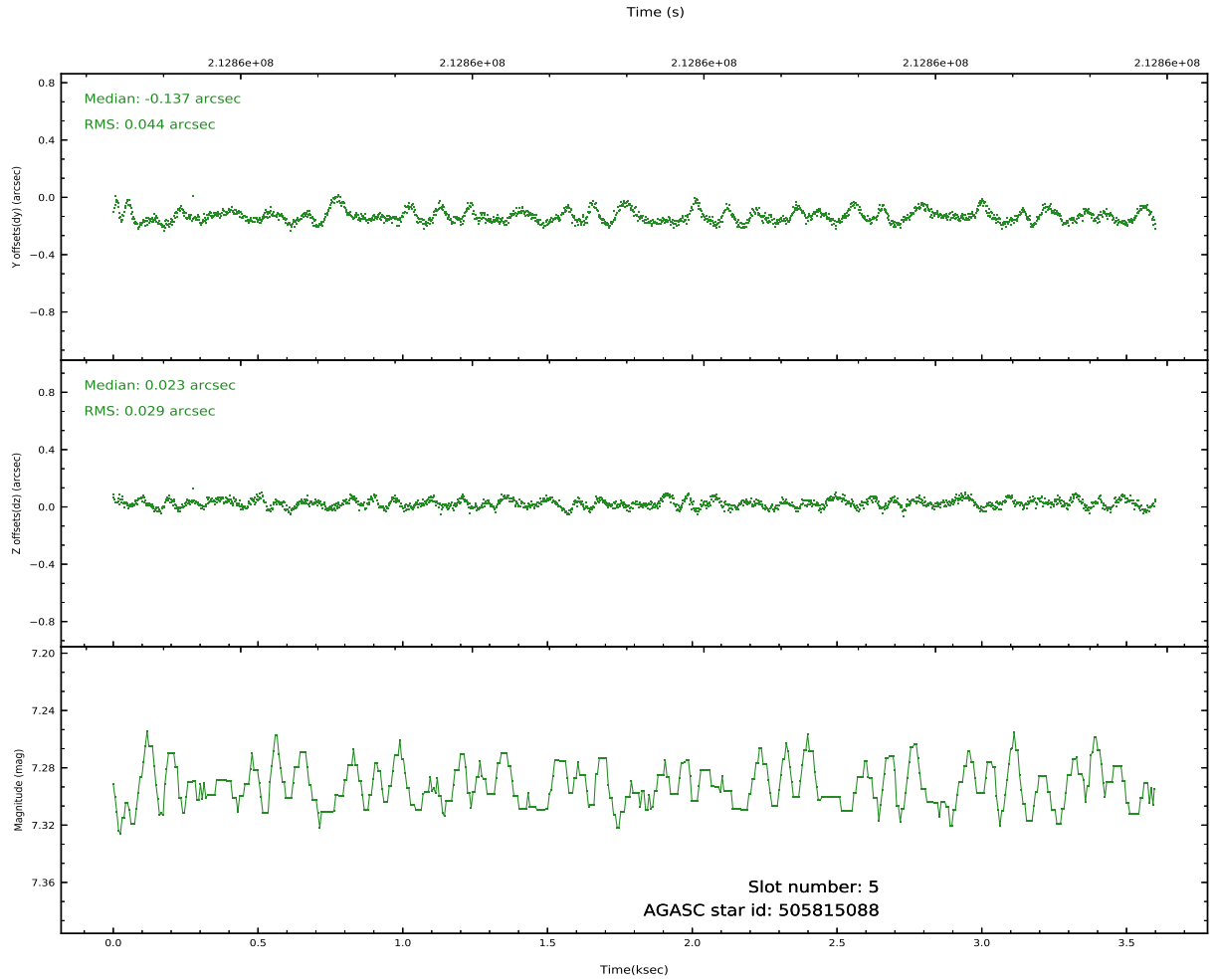
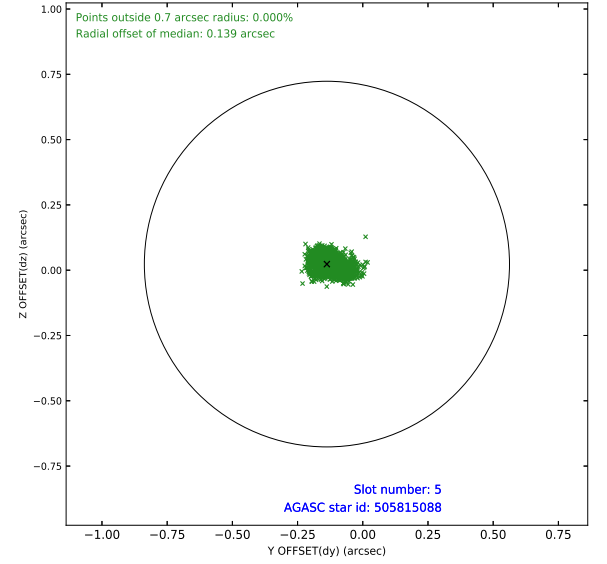
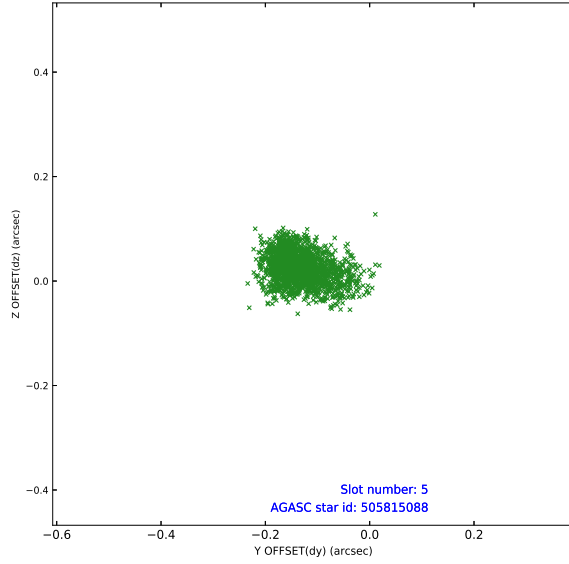
2.4.1 Slot 3



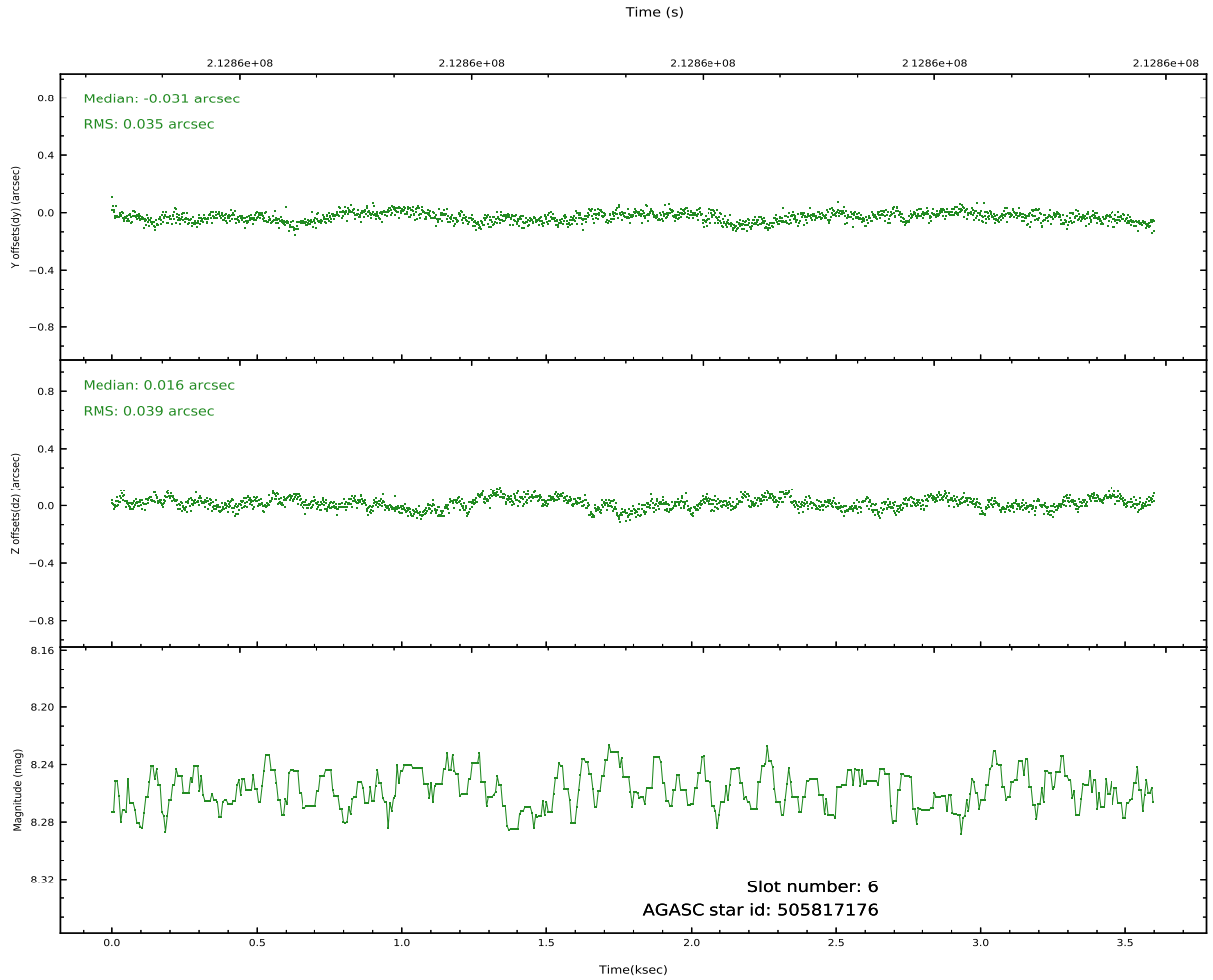
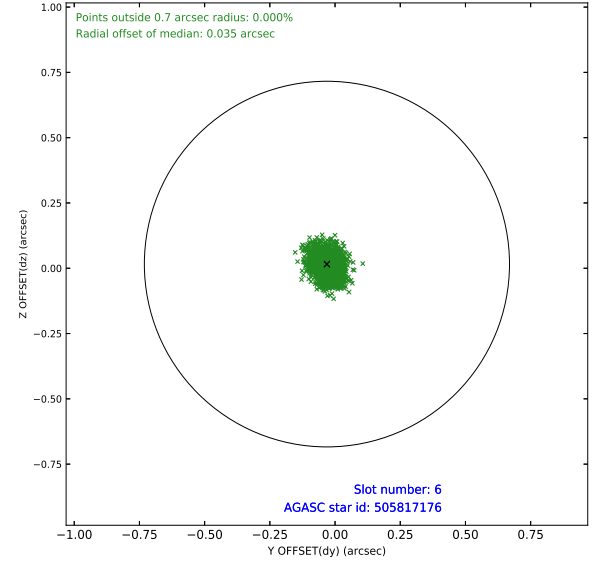
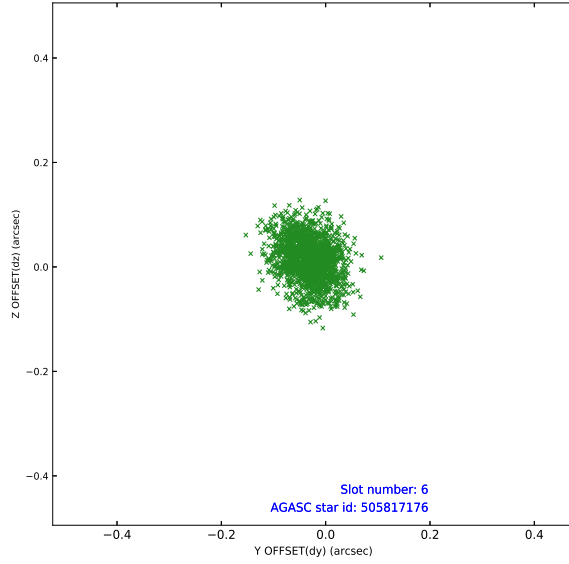
2.4.2 Slot 4



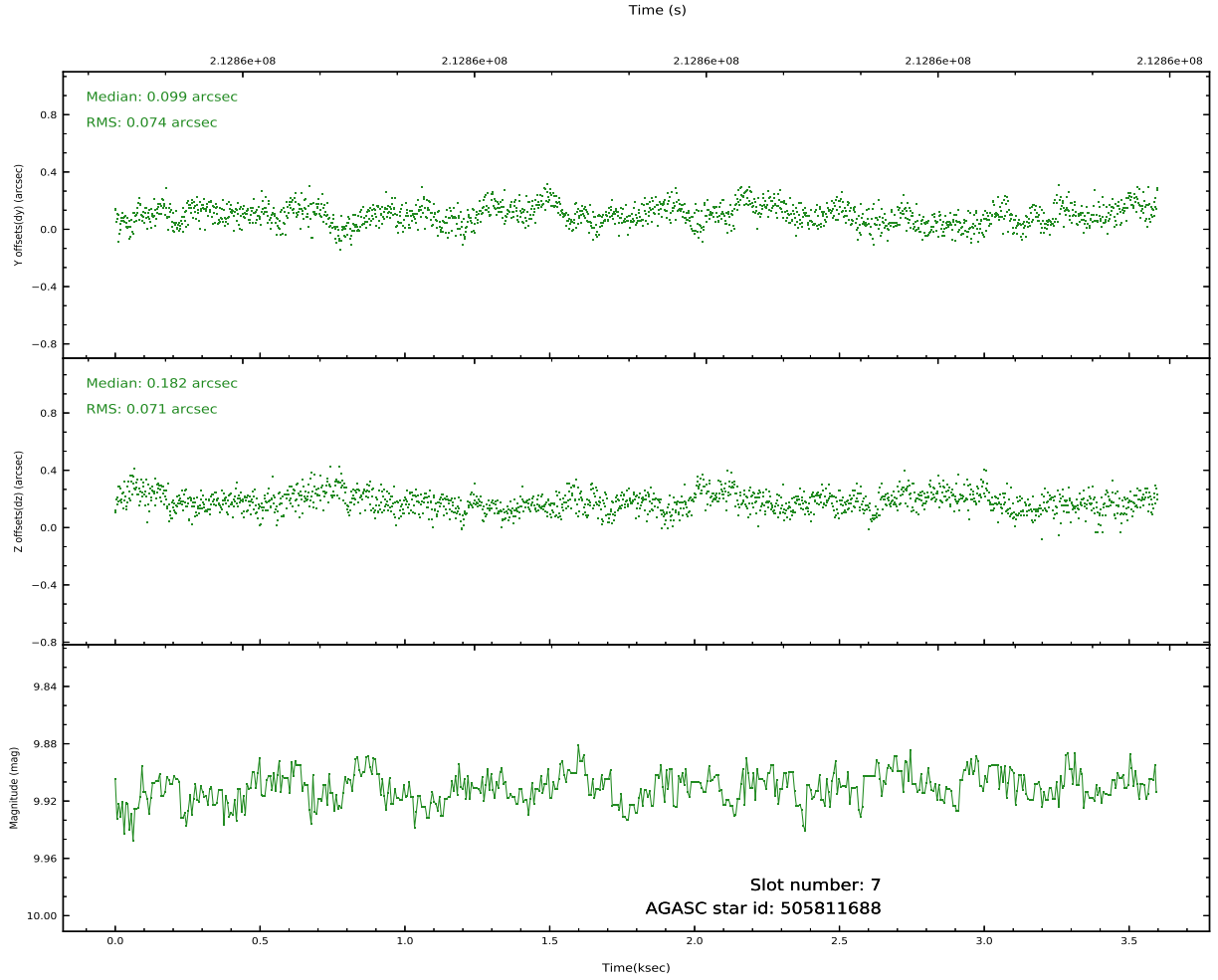
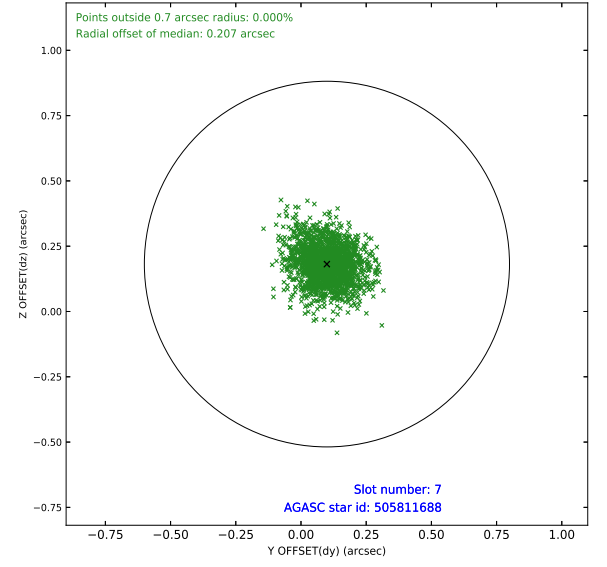
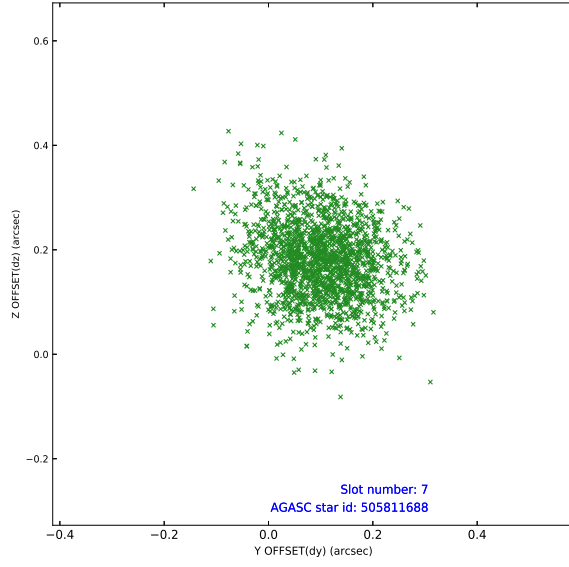
2.4.3 Slot 5



2.4.4 Slot 6

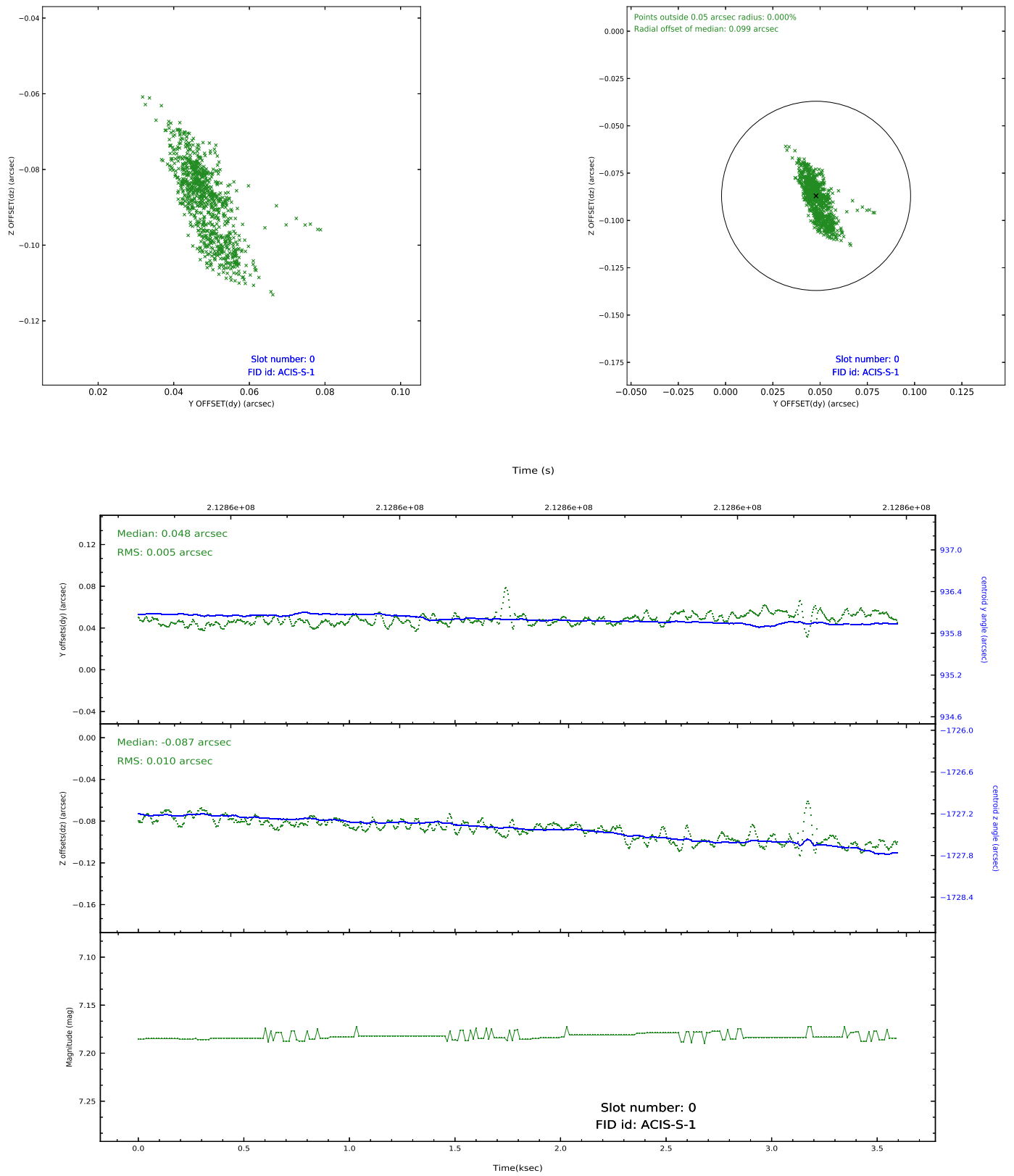


2.4.5 Slot 7

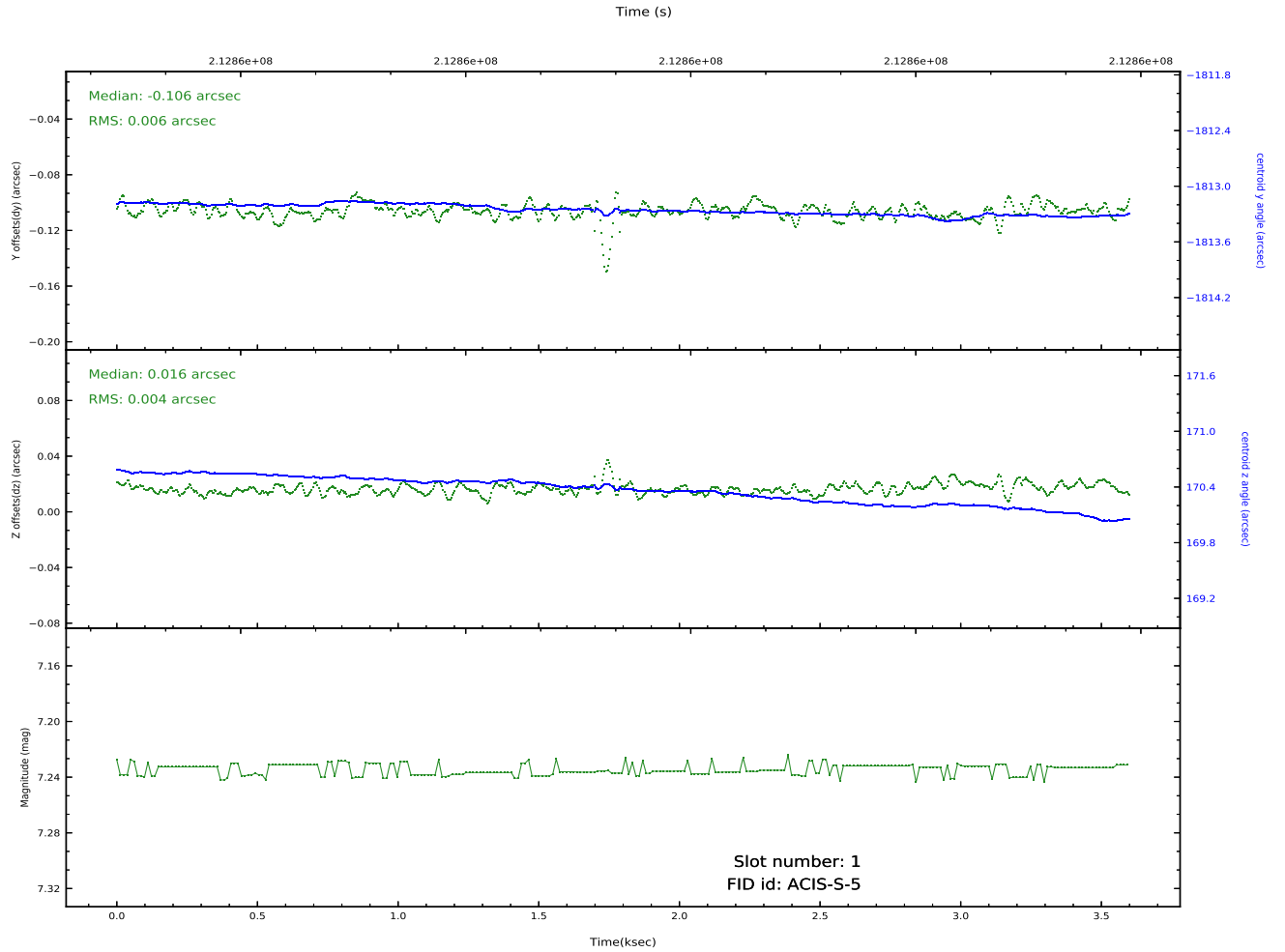
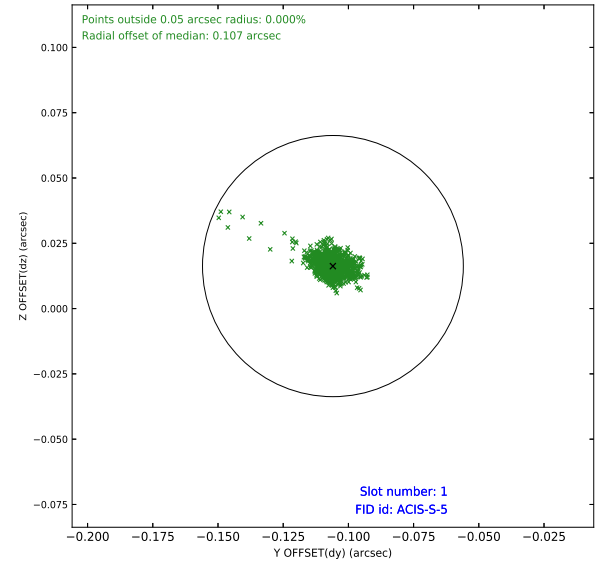
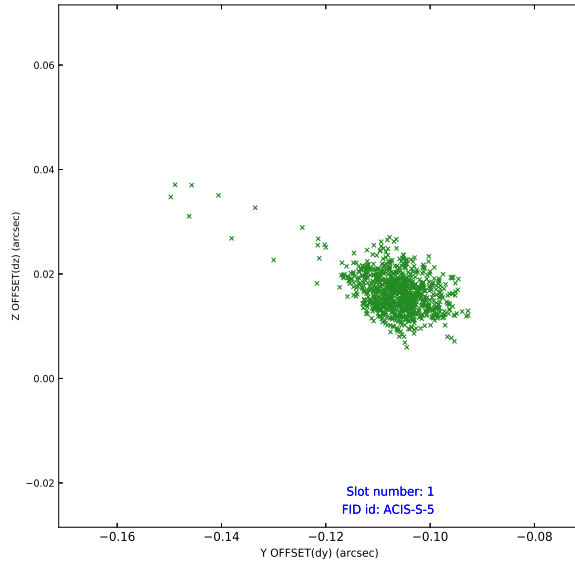


2.5 FID Slots

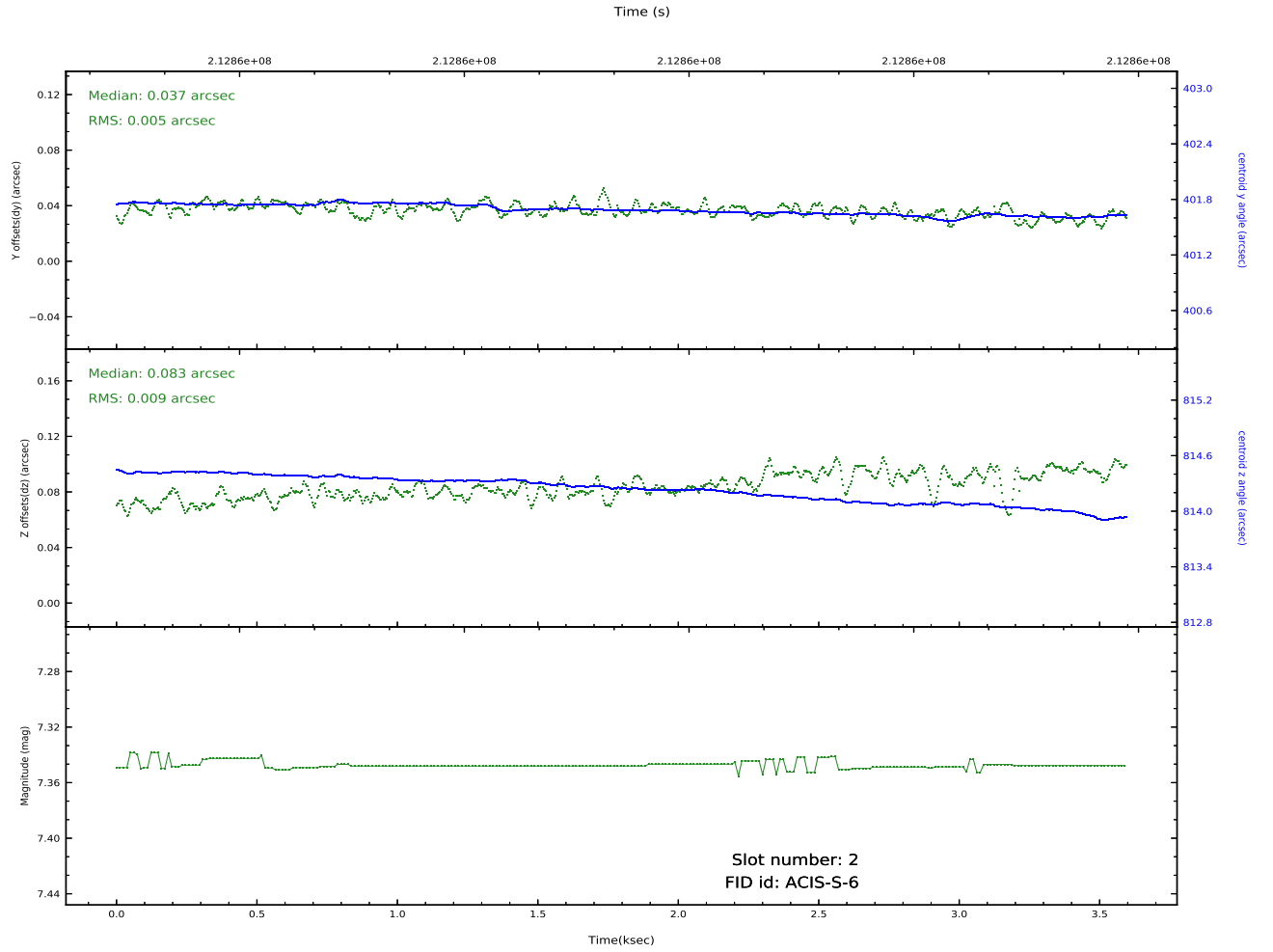
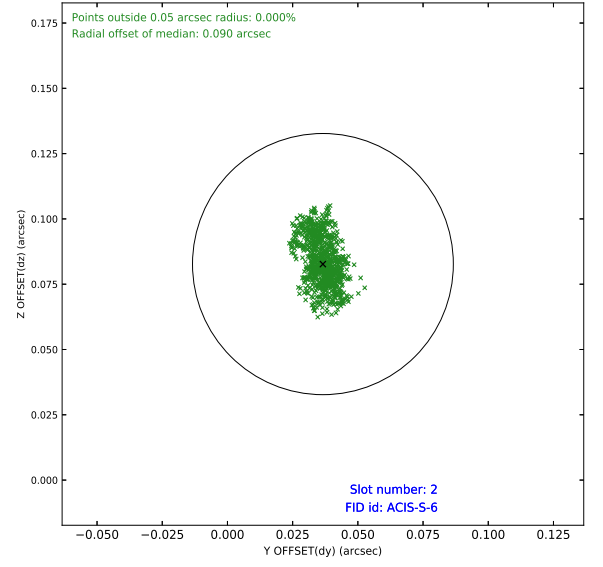
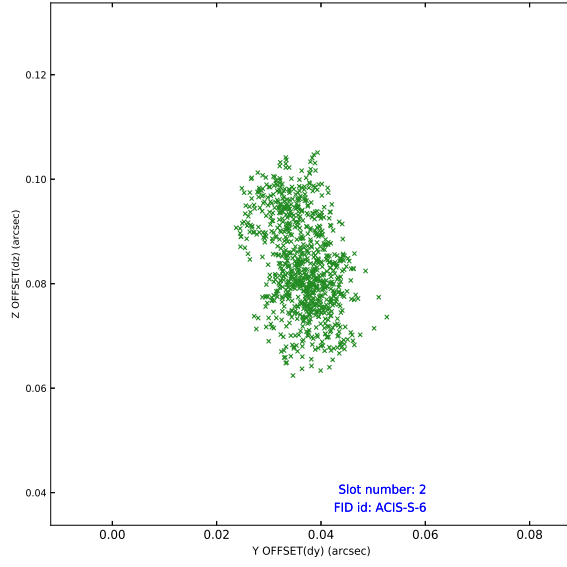
2.5.1 Slot 0



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)	2020.10.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.174

A.2 Comments