

V&V Reference Report

L2 ASCDS Version : 10.8

Observation 21192 - L2 Version 1
Chandra X-Ray Center

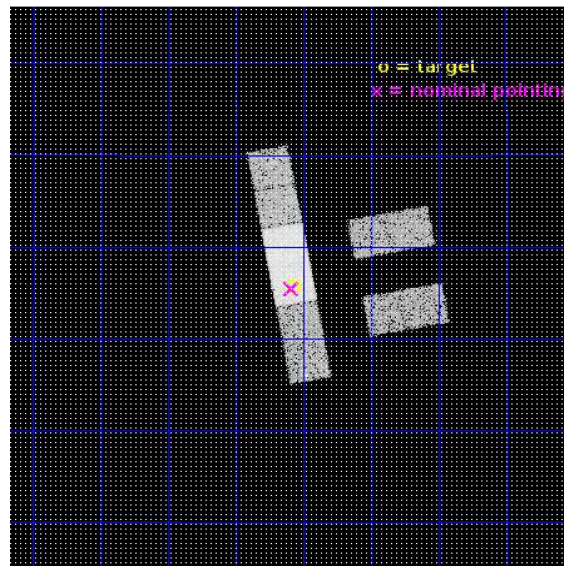
L2 Processing Date : Jul 24 2019

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1 Front

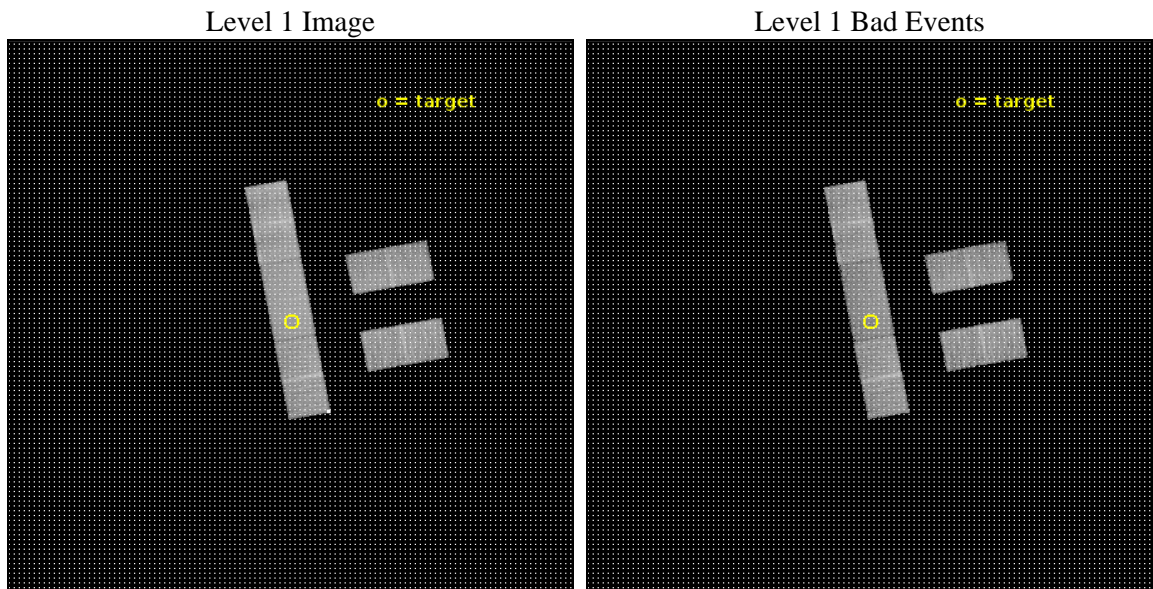
seq_num	201246	Sequence number
obs_id	21192	Observation id
title	Testing X-ray activity as an age indicator	Proposal title
observer	Christian Schneider	Principal investigator
object	HD 103431	Source name
dtycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	178.64375	Observer's specified target RA [deg]
dec_targ	19.42775	Observer's specified target Dec [deg]
ra_nom	178.64732773791	Nominal RA [deg]
dec_nom	19.42434111882	Nominal Dec [deg]
roll_nom	259.65309929172	Nominal Roll [deg]
revision	1	Processing version of data
ontime	13056.000366211	Sum of GTIs [s]
livetime	12748.242787391	Livetime [s]
ontime2	13056.000366211	Sum of GTIs [s]
ontime3	13056.000366211	Sum of GTIs [s]
ontime6	13056.000366211	Sum of GTIs [s]
ontime7	13056.000366211	Sum of GTIs [s]
ontime8	13054.25937593	Sum of GTIs [s]
l2events	50360	Number of level 2 events



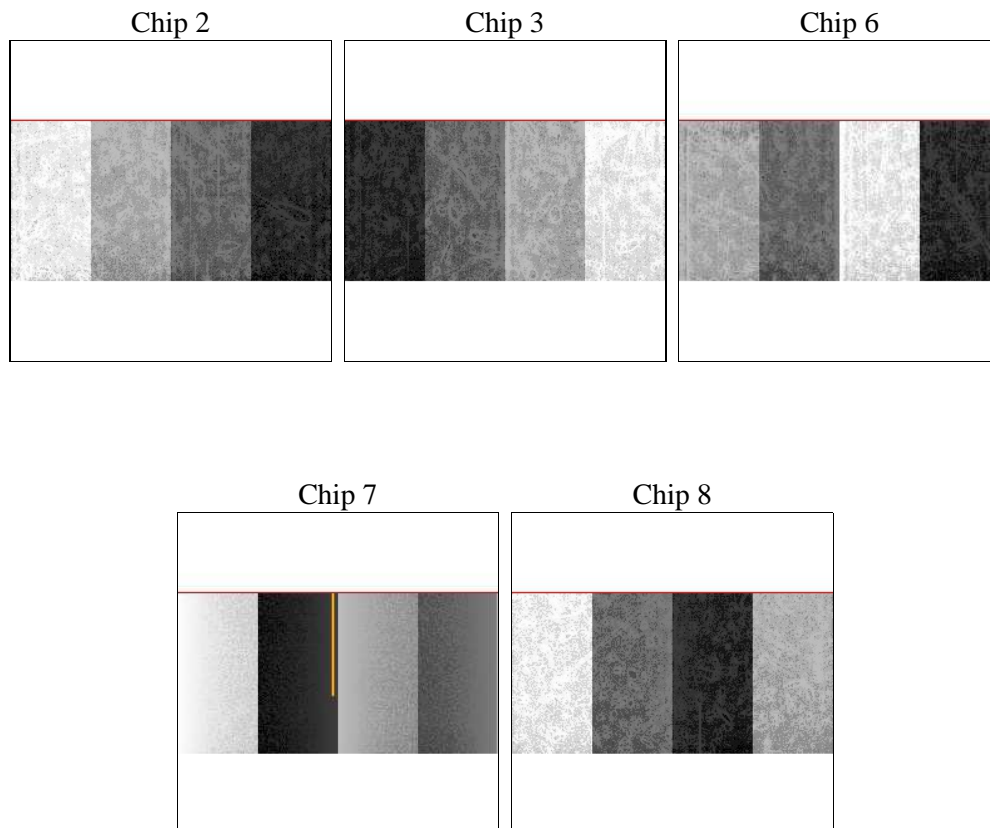
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	13000.000000	[s] Scheduled observation exposure time
ascdsver	10.8	Processing system revision	ontime	13056.000366211	Sum of GTIs [s]
caldbver	4.8.3.1	 	ontime2	13056.000366211	Sum of GTIs [s]
date	2019-07-24T21:53:49	Date and time of file creation	ontime3	13056.000366211	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	13056.000366211	Sum of GTIs [s]
			ontime7	13056.000366211	Sum of GTIs [s]
			ontime8	13054.25937593	Sum of GTIs [s]
			l1events	317171	Number of level 1 events

2.1.4 Events

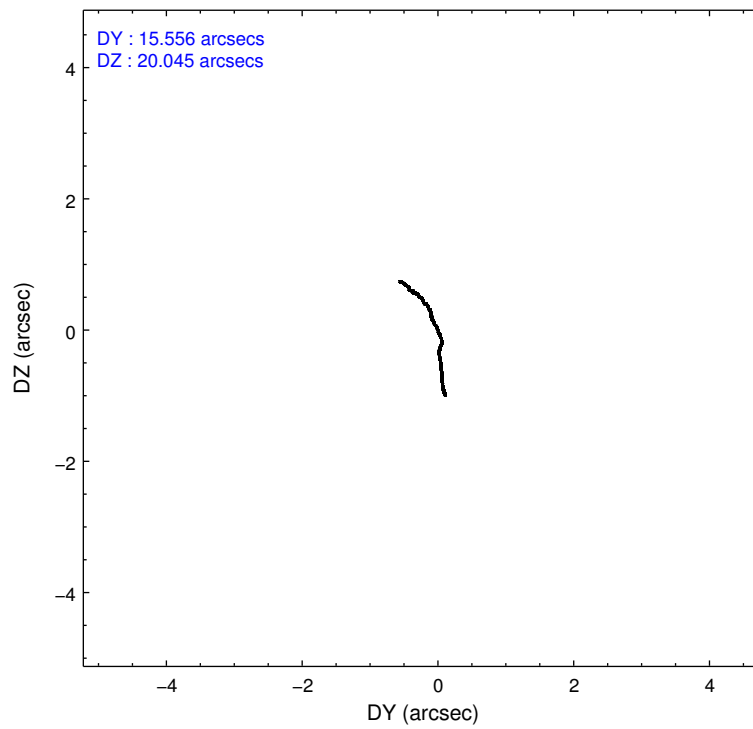
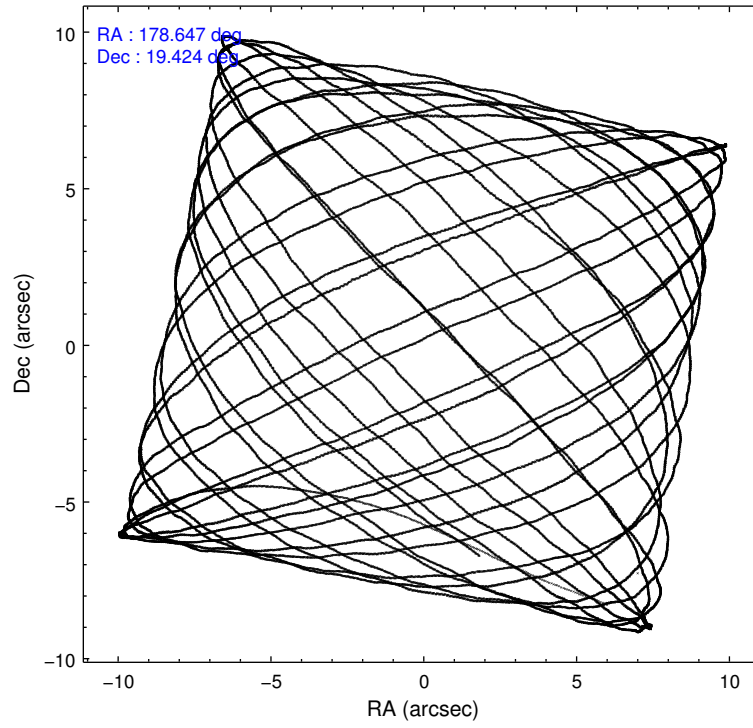
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	55937	53038	66748	67321	74127
rejected events	50151	47353	53122	37563	55698
rejected %	89%	89%	79%	55%	75%

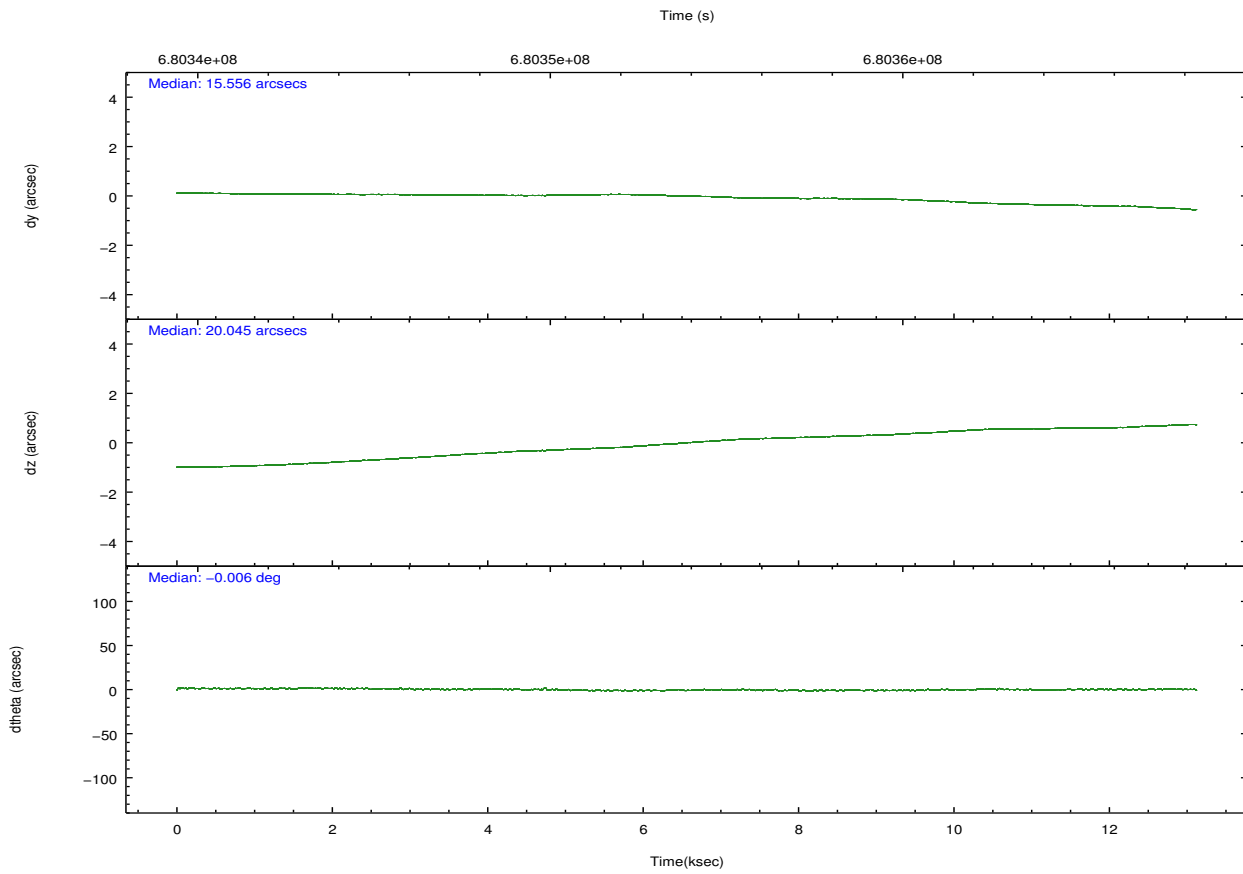
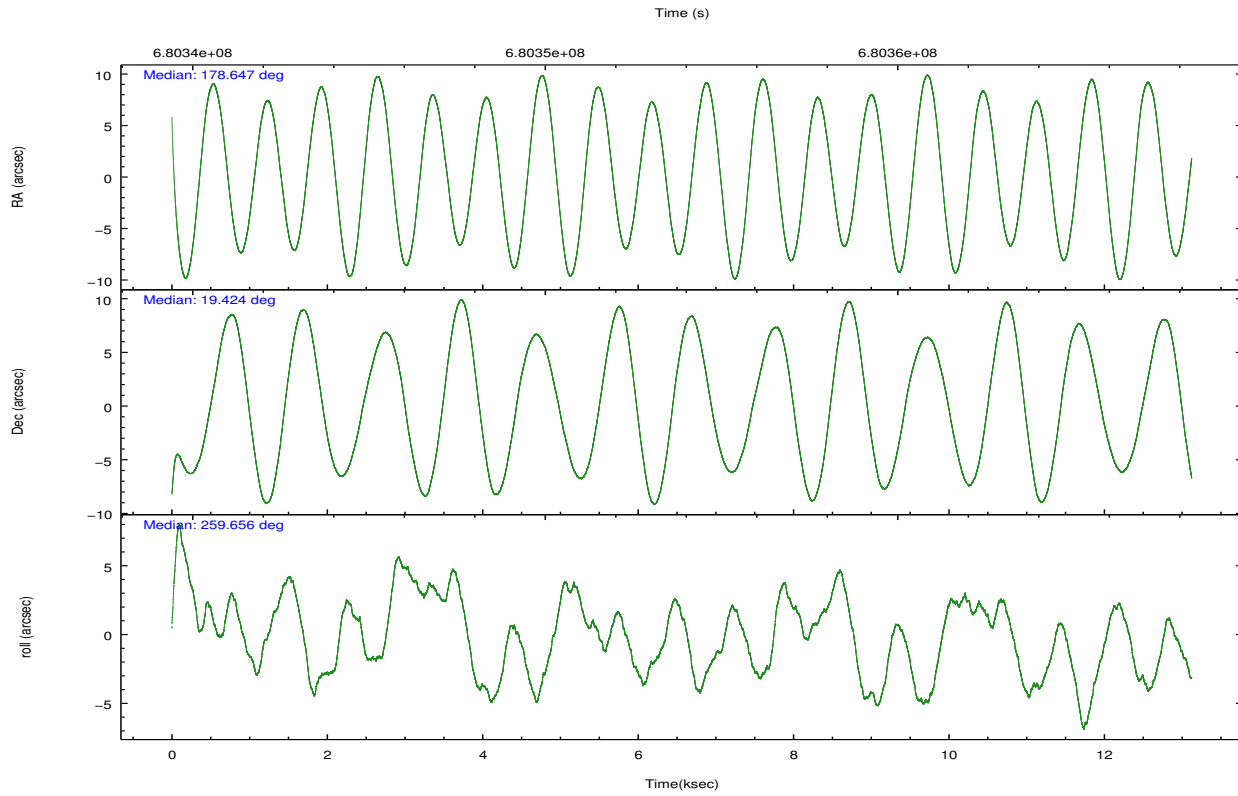
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	1834	1888	9164	2596	5241
	3%	3%	13%	3%	7%
grade 1 events	24	18	37	102	41
	0%	0%	0%	0%	0%
grade 2 events	1329	1191	1451	6230	4361
	2%	2%	2%	9%	5%
grade 3 events	688	705	699	2711	1905
	1%	1%	1%	4%	2%
grade 4 events	763	679	752	2608	1797
	1%	1%	1%	3%	2%
grade 5 events	1996	2451	2406	6775	3662
	3%	4%	3%	10%	4%
grade 6 events	1173	1223	1562	15616	5127
	2%	2%	2%	23%	6%
grade 7 events	48130	44883	50677	30683	51993
	86%	84%	75%	45%	70%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	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	178.637215	178.6473277379088	CCD I2 on	O1	Y
[deg] Pointing Dec	19.450076	19.42434111882027	CCD I3 on	Y	Y
[deg] Pointing Roll	259.499841	259.6530992917235	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	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	Y	Y
[s] Observation start time (MET)	680345497.184000	680344209.7567101	CCD S5 on	N	N
Observation start date	2019-07-24T08:50:28	2019-07-24T08:30:09	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	680358497.184000	680359543.75763	On-chip summing requested	N	N
Observation end date	2019-07-24T12:27:08	2019-07-24T12:45:43	Subarray requested	CUSTOM	1/2
Read mode	TIMED	TIMED	Subarray start row	257	257
			Subarray row count	512	512
			Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	1.7

2.3 Aspect





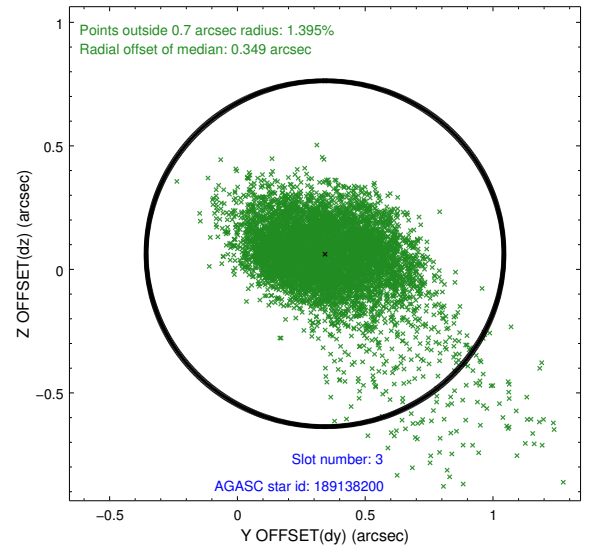
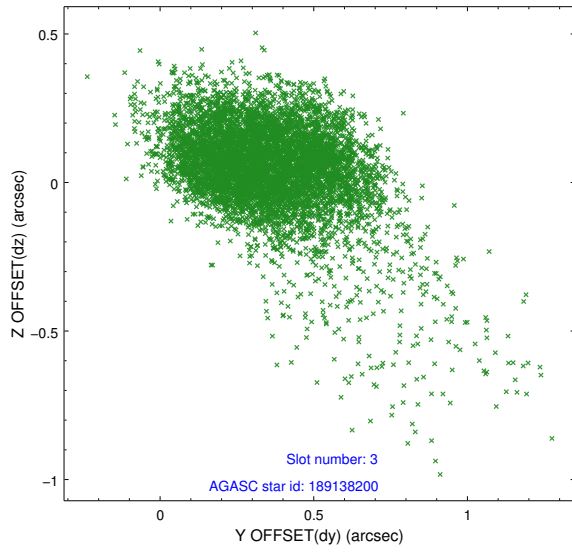
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.11	3201	1.000	-0.329	-0.223	0.016	0.029	0.000000	0.000000	-768.71	-1741
1	FID		ACIS-S-4	7.22	3201	1.000	0.825	0.219	0.008	0.021	0.000000	0.000000	2145.48	166
2	FID		ACIS-S-5	7.17	3201	1.000	-0.525	0.012	0.016	0.033	0.000000	0.000000	-1821.35	160
3	GUIDE	used	189138200	9.36	6378	1.000	0.343	0.063	0.229	0.406	178.101630	18.947862	2110.27	-1466
4	GUIDE	used	189140528	8.25	6397	1.000	-0.021	-0.126	0.126	0.210	178.633618	19.411233	142.24	4
5	GUIDE	used	189140672	9.04	6390	1.000	0.054	-0.280	0.206	0.314	178.601271	18.918622	1904.11	228
6	GUIDE	used	189143880	8.02	6399	1.000	-0.334	0.340	0.242	0.434	179.370549	19.983904	-2346.32	2081
7	GUIDE	used	189140696	8.40	3197	1.000	-0.147	0.036	0.182	0.288	178.646164	19.427835	74.50	36

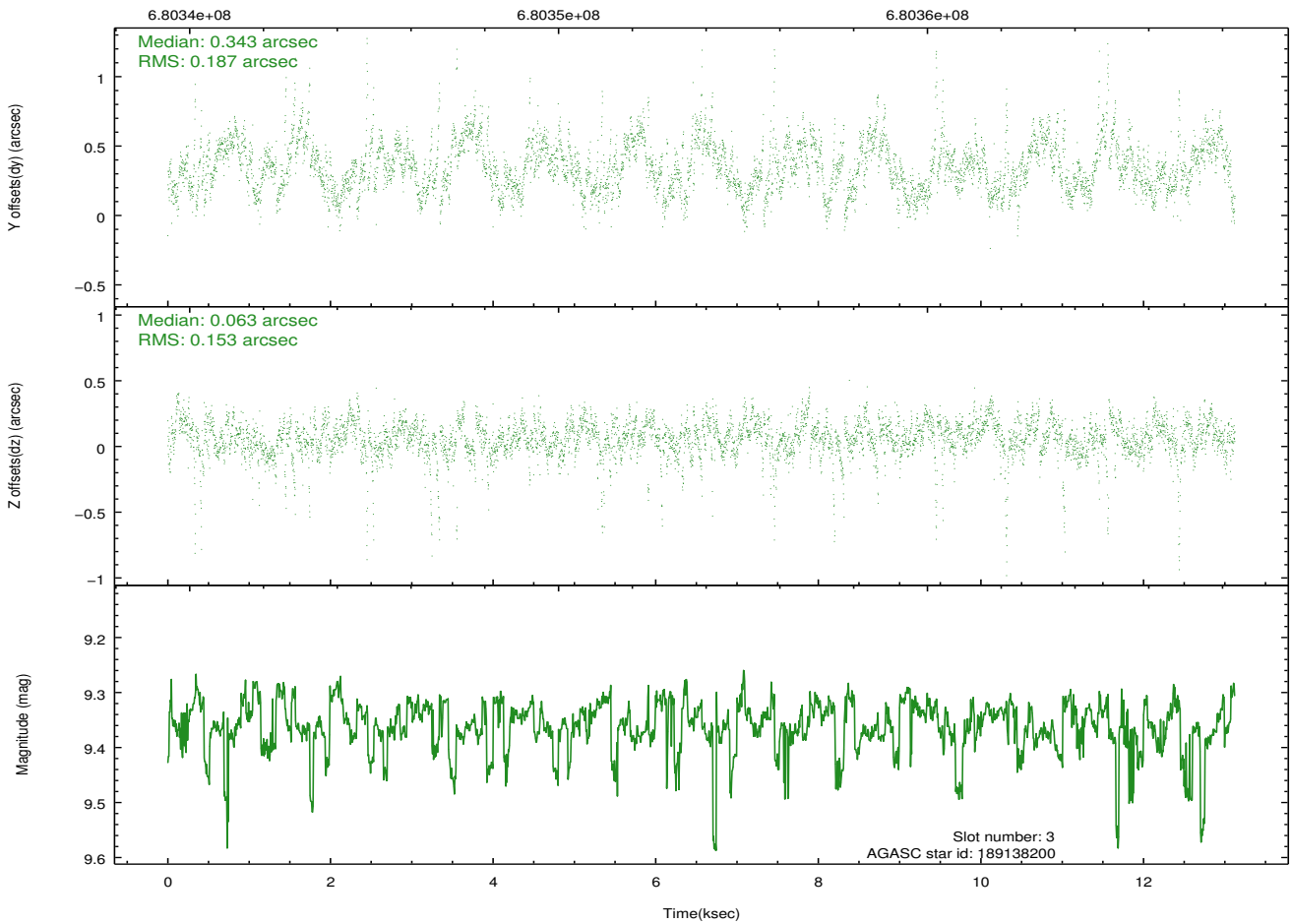
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2.4 Star Slots

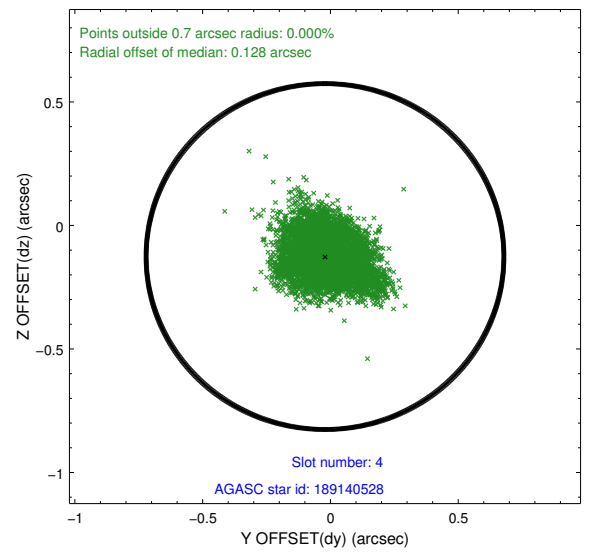
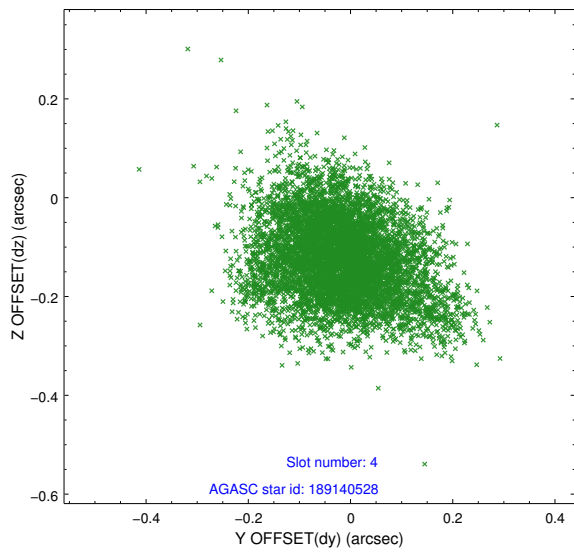
2.4.1 Slot 3



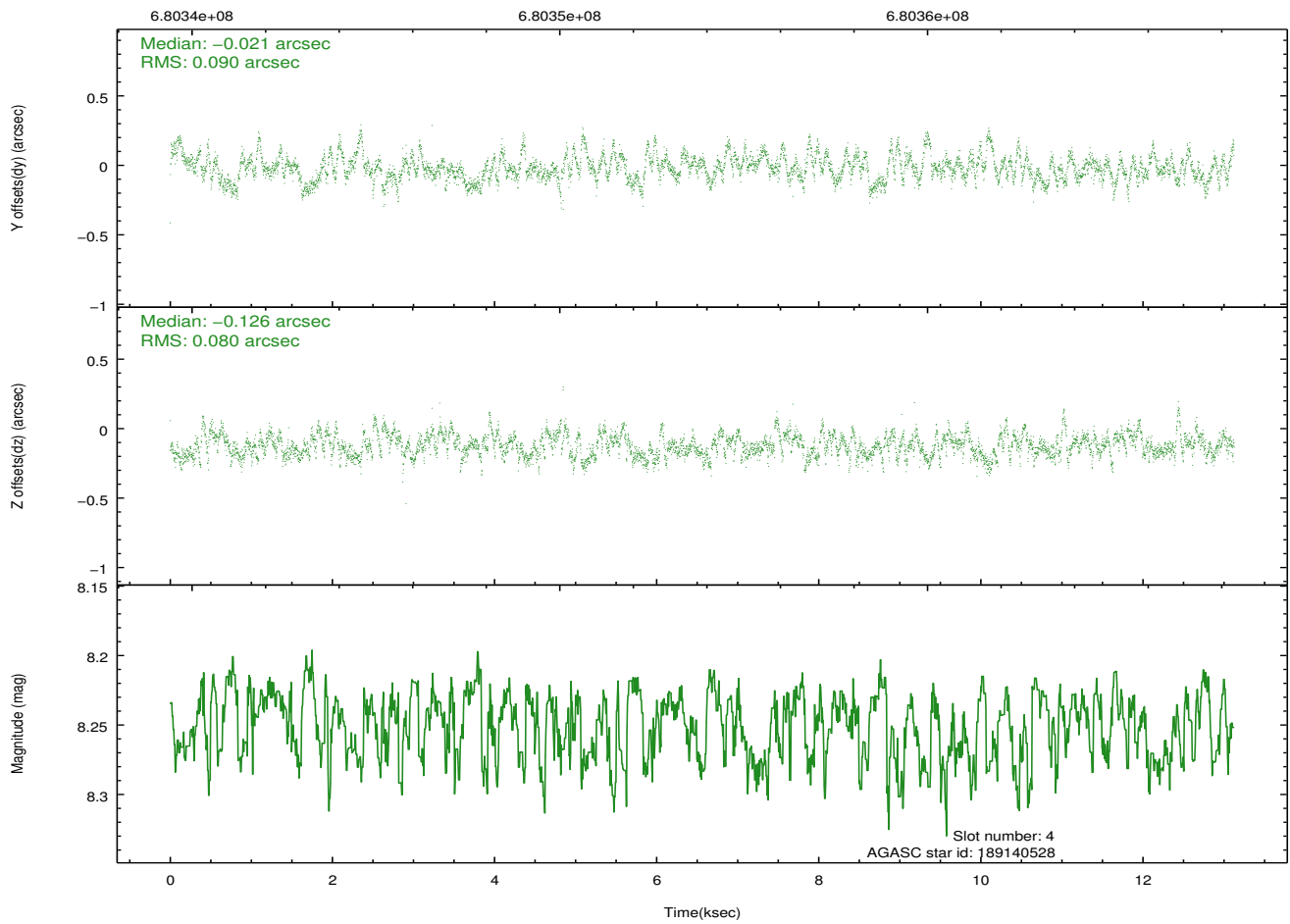
Time (s)



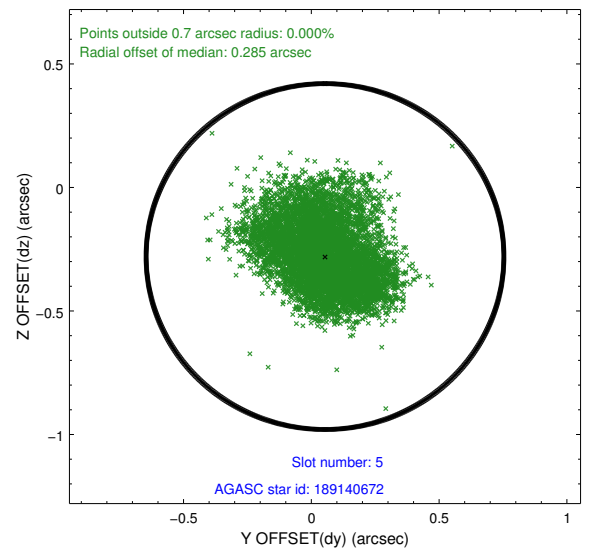
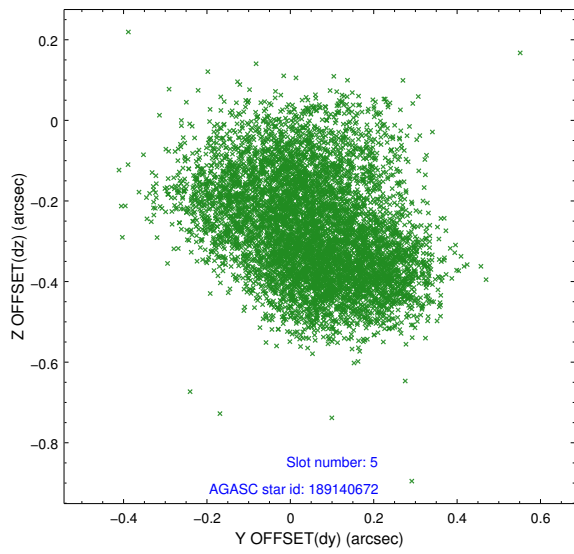
2.4.2 Slot 4



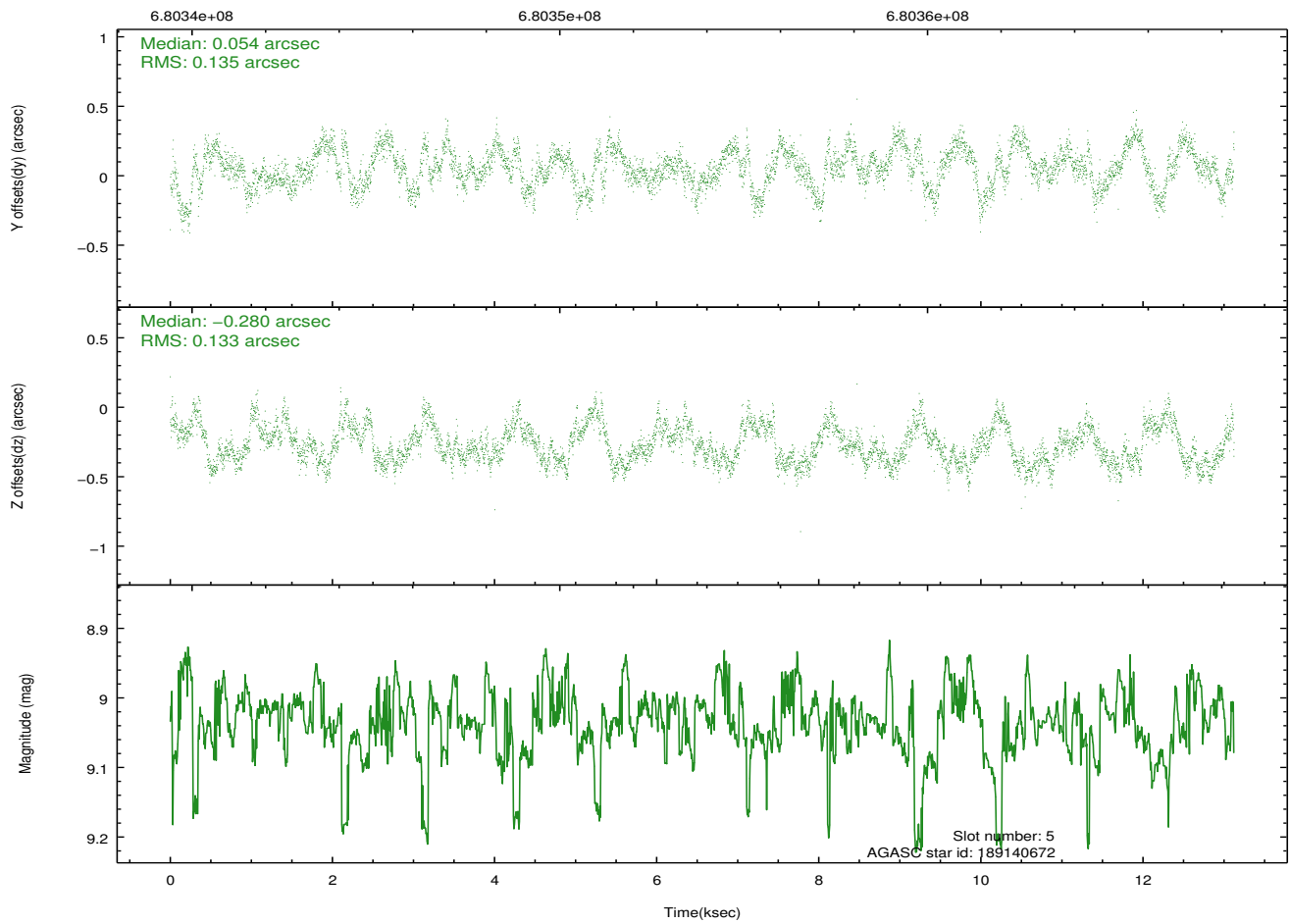
Time (s)



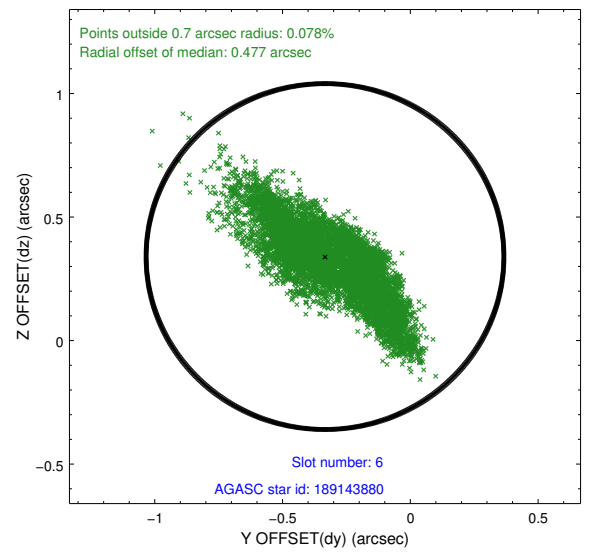
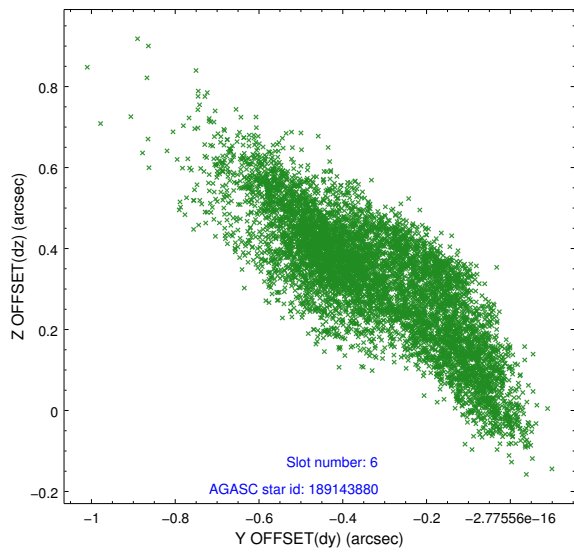
2.4.3 Slot 5



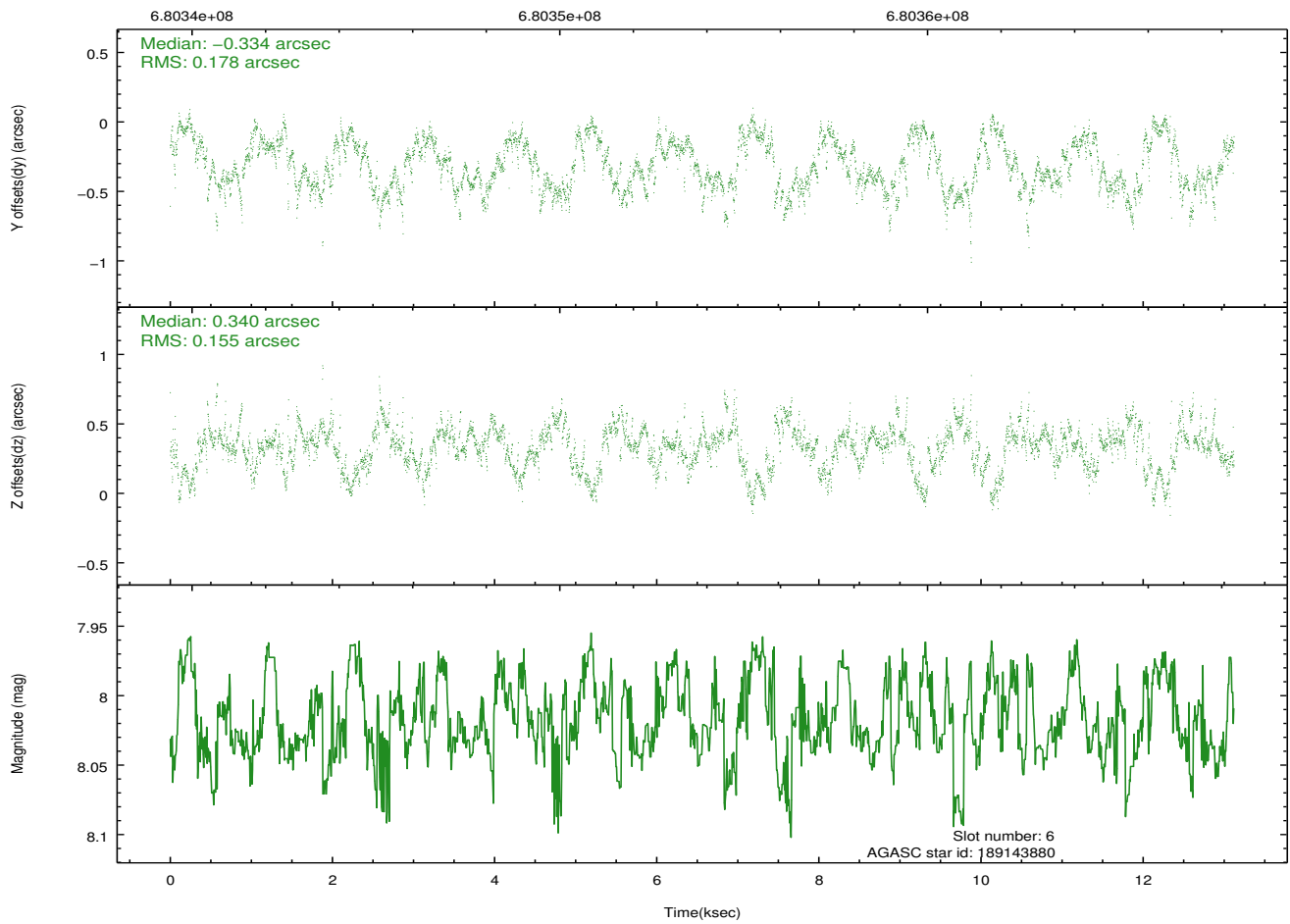
Time (s)



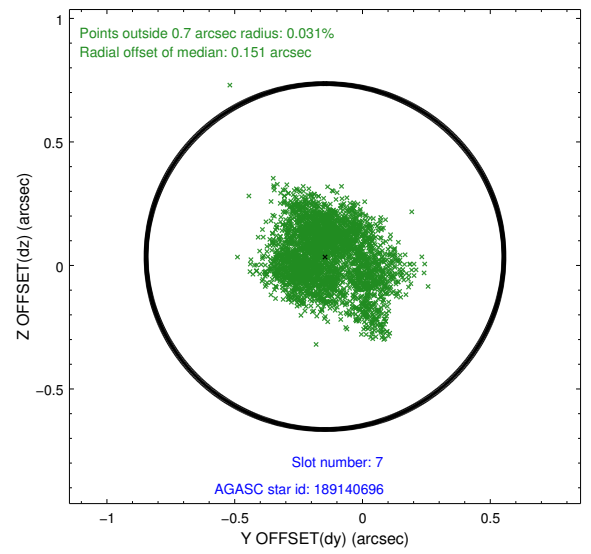
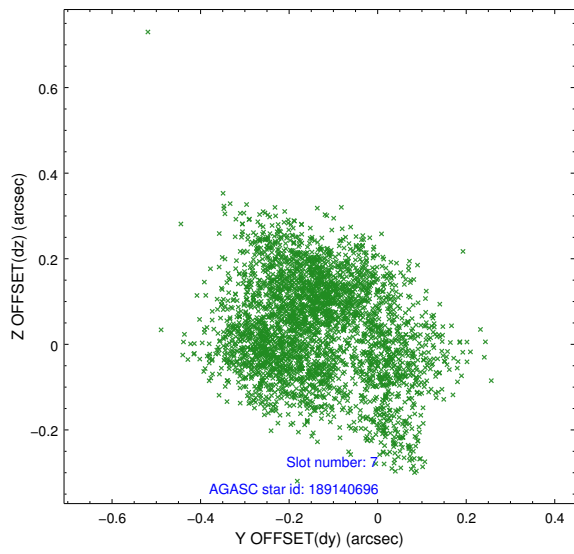
2.4.4 Slot 6



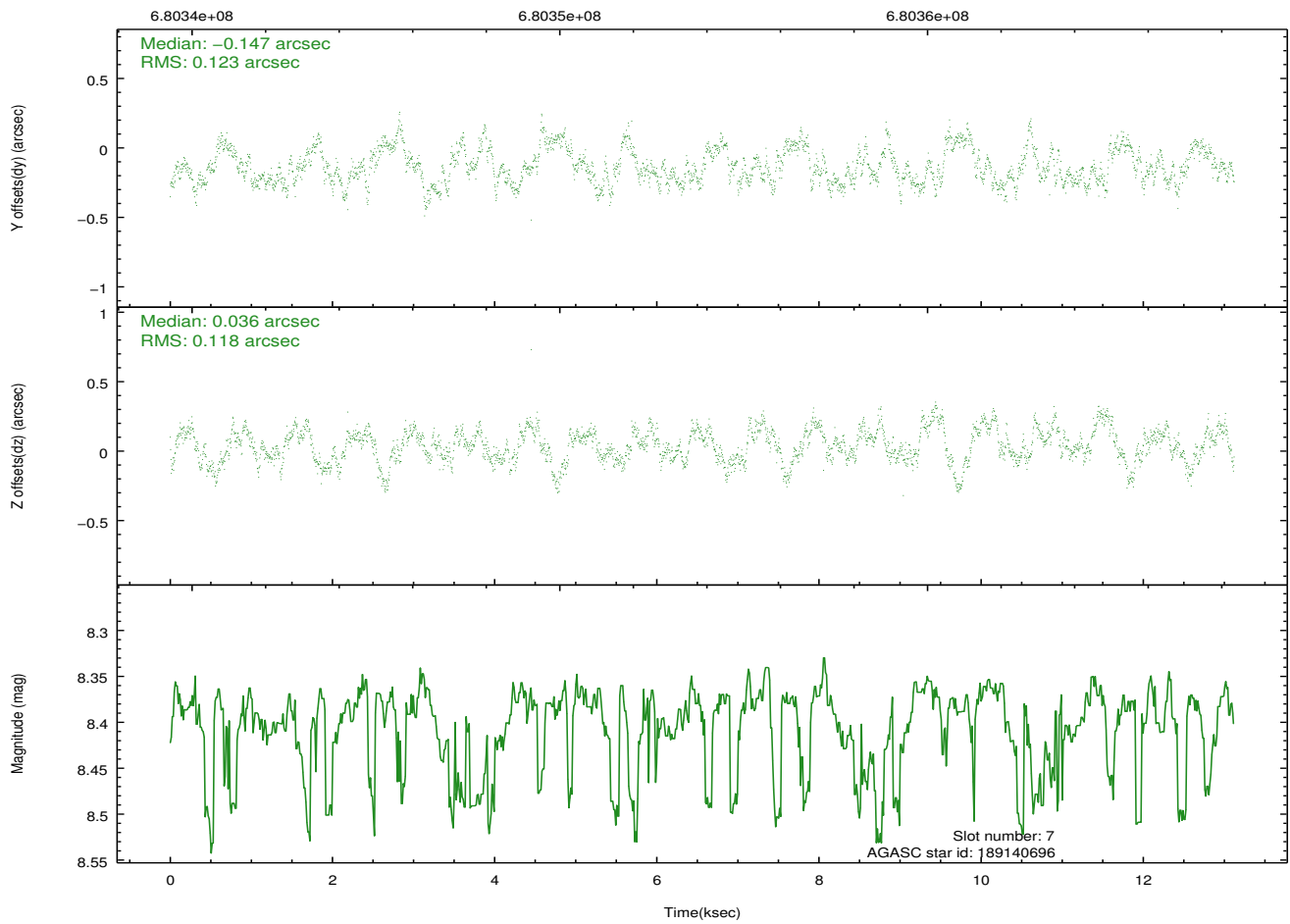
Time (s)



2.4.5 Slot 7

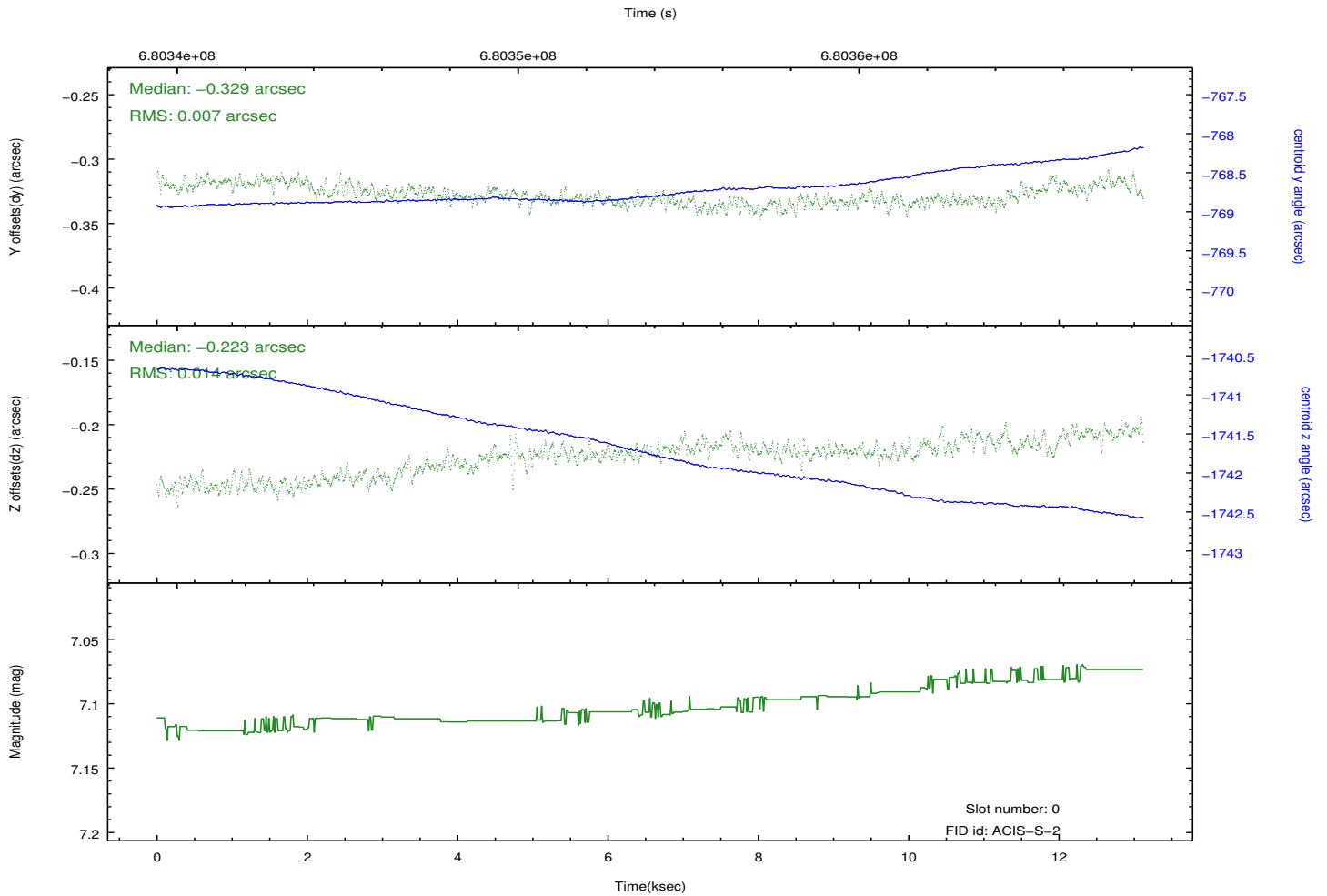
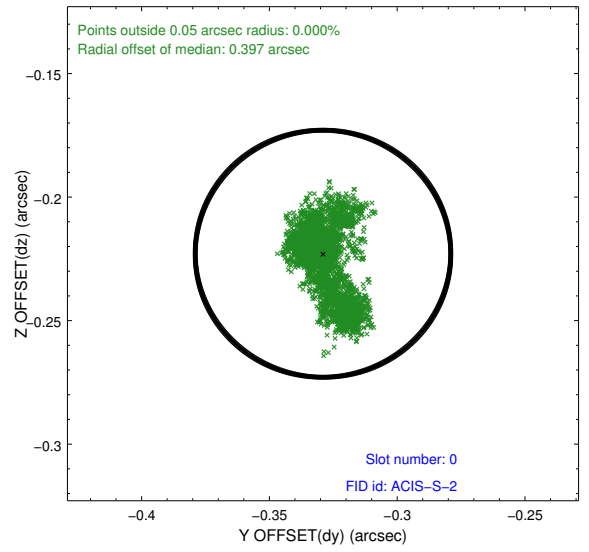
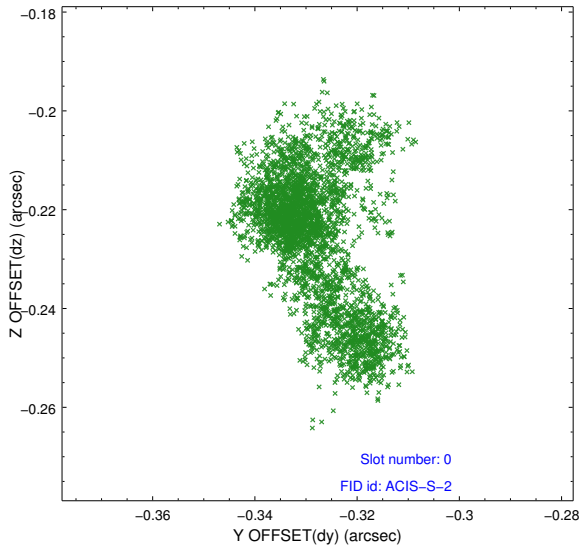


Time (s)

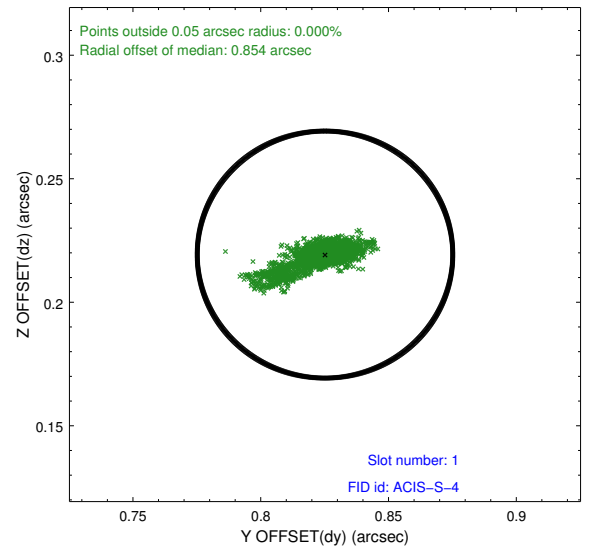
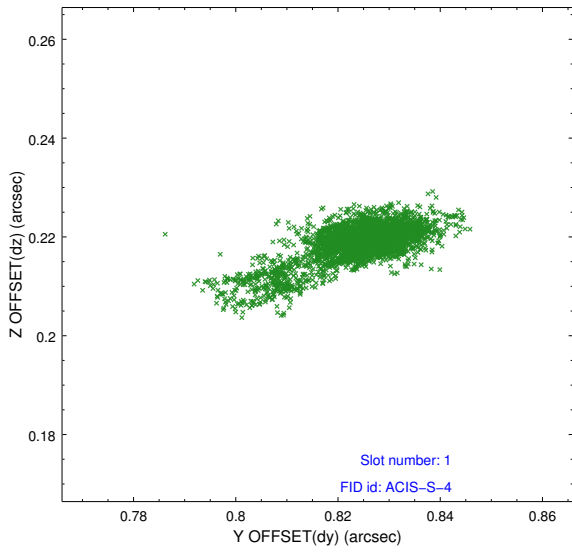


2.5 FID Slots

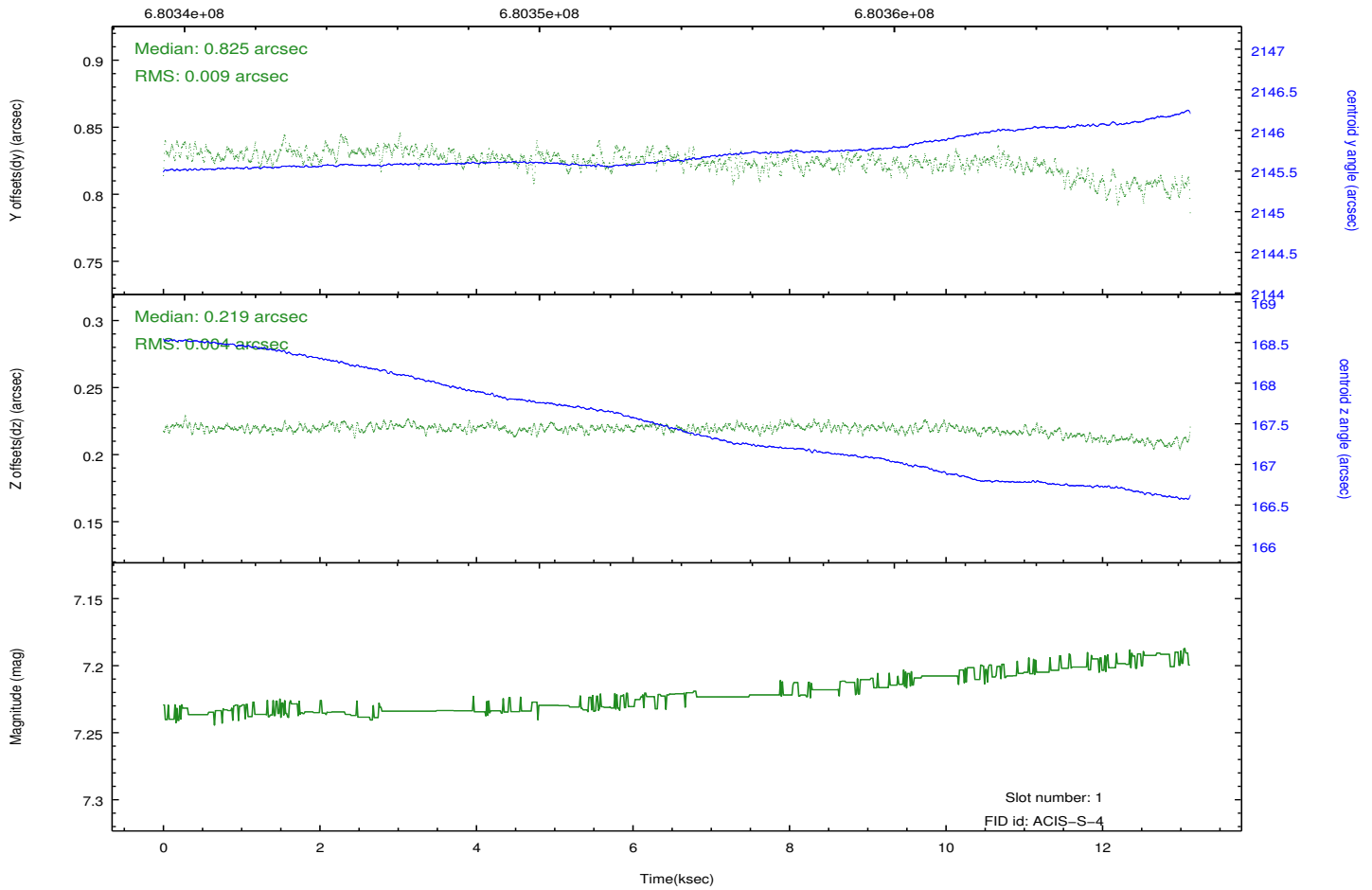
2.5.1 Slot 0



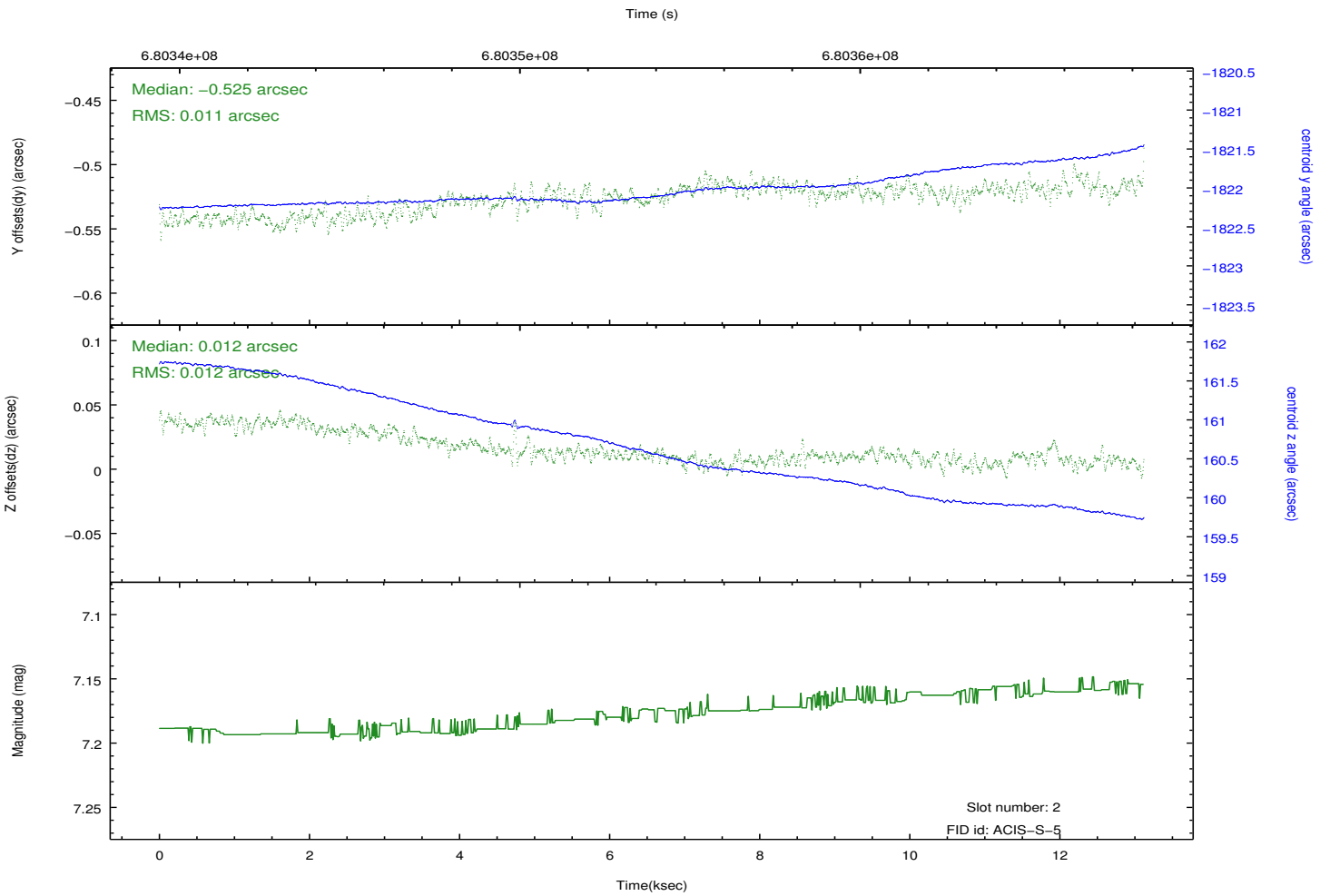
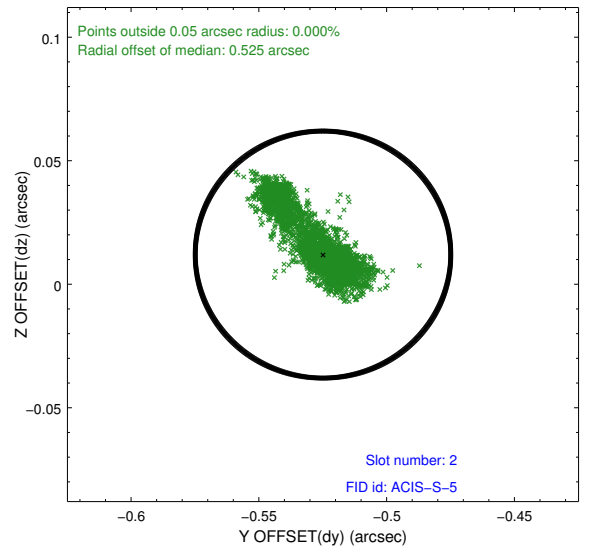
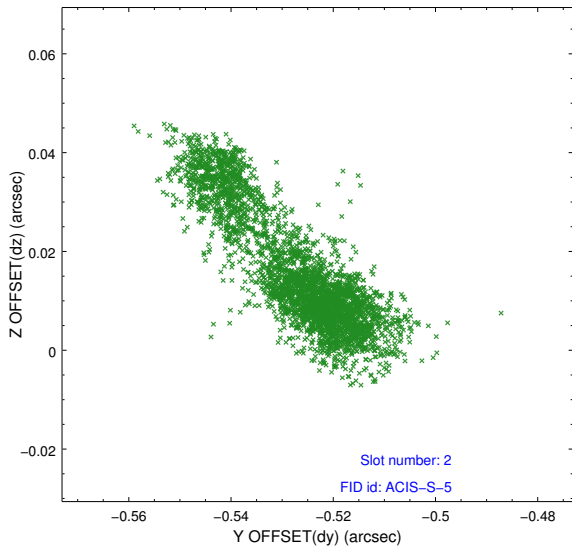
2.5.2 Slot 1



Time (s)



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2019.07.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	13.056000366211

A.2 Comments