

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 4524 - L2 Version 5
Chandra X-Ray Center

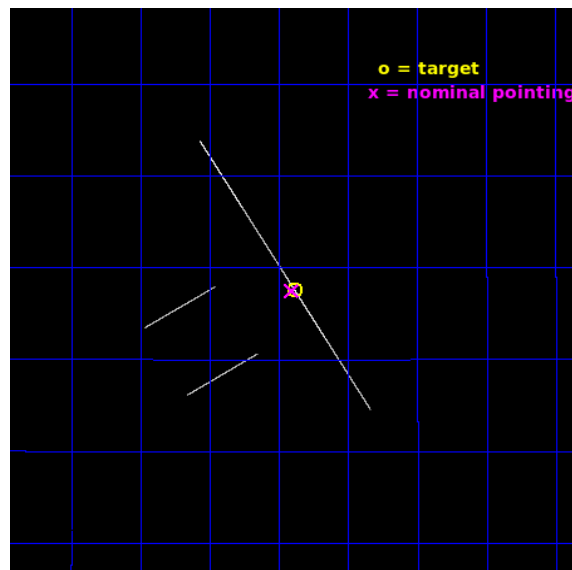
L2 Processing Date : Sep 21 2020

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1 Front

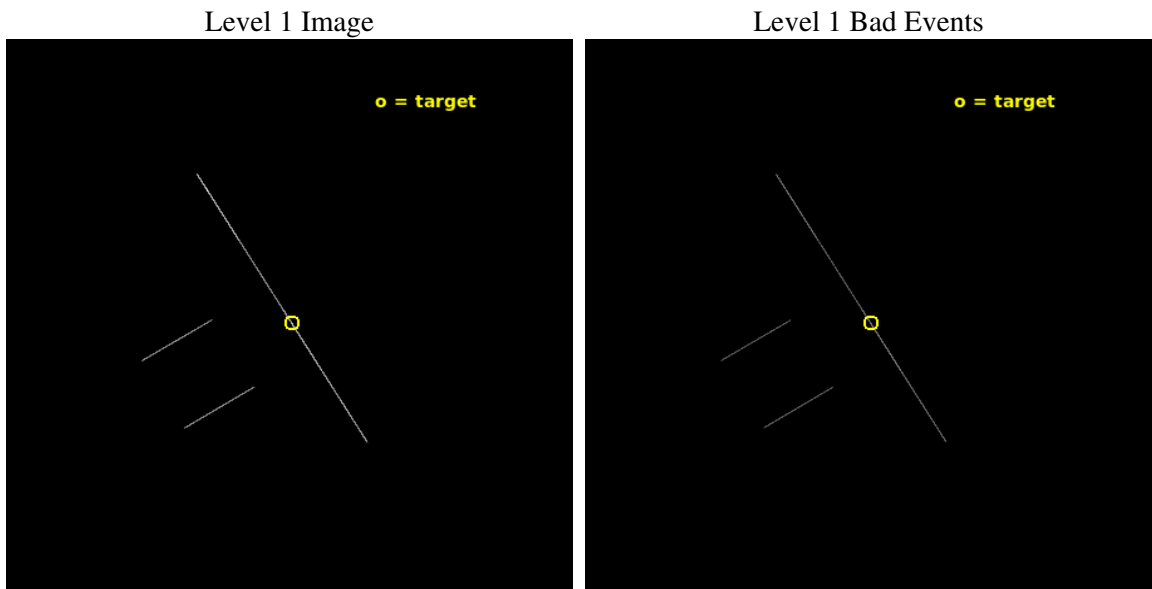
seq_num	300118	Sequence number
obs_id	4524	Observation id
title	Timing the Orbit of RX J0806.3+1527	Proposal title
observer	Tod Strohmayer	Principal investigator
object	RX J0806.3+1527	Source name
ra_targ	121.596667	Observer's specified target RA [deg]
dec_targ	15.458389	Observer's specified target Dec [deg]
ra_nom	121.60157347554	Nominal RA [deg]
dec_nom	15.458127638689	Nominal Dec [deg]
roll_nom	58.616651283153	Nominal Roll [deg]
revision	5	Processing version of data
ontime	10521.25	Sum of GTIs [s]
livetime	10480.151367188	Livetime [s]
ontime2	10521.25	Sum of GTIs [s]
ontime3	10521.25	Sum of GTIs [s]
ontime5	10521.25	Sum of GTIs [s]
ontime6	10521.25	Sum of GTIs [s]
ontime7	10521.25	Sum of GTIs [s]
ontime8	10521.25	Sum of GTIs [s]
l2events	111468	Number of level 2 events



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	10521.25	Sum of GTIs [s]
caldbver	4.9.2	 	ontime2	10521.25	Sum of GTIs [s]
date	2020-09-22T01:21:24	Date and time of file creation	ontime3	10521.25	Sum of GTIs [s]
revision	5	Processing version of data	ontime5	10521.25	Sum of GTIs [s]
			ontime6	10521.25	Sum of GTIs [s]
			ontime7	10521.25	Sum of GTIs [s]
			ontime8	10521.25	Sum of GTIs [s]
			l1events	190001	Number of level 1 events

2.1.3 Events

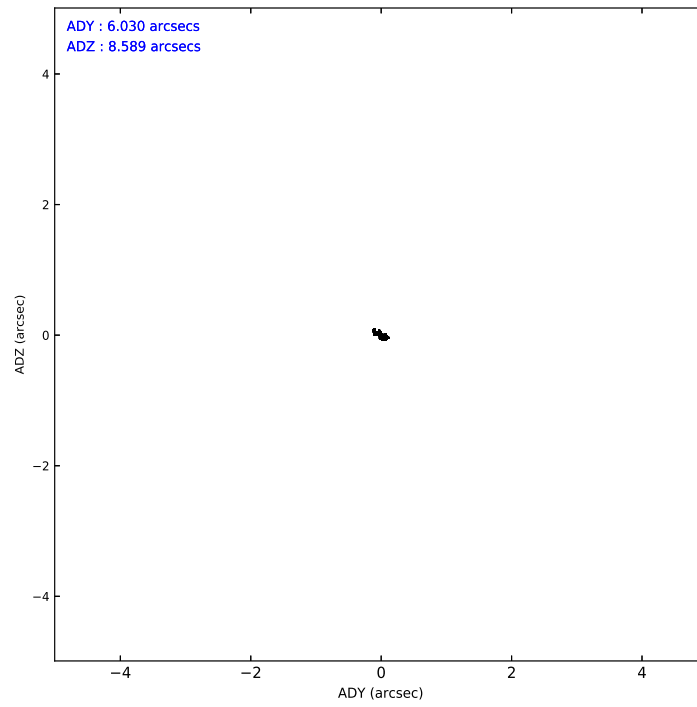
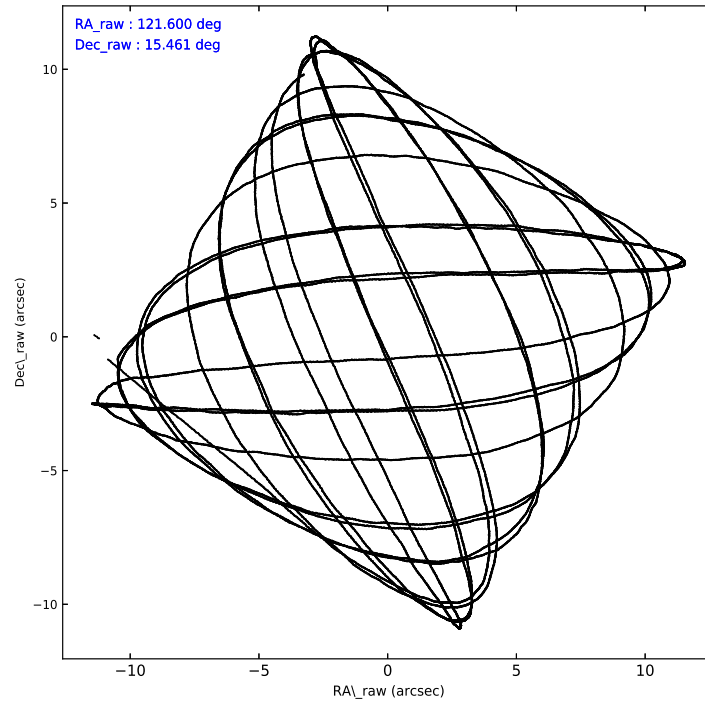
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	13058	13882	78388	13591	43298	27784
rejected events	2827	3115	8336	3143	8246	4731
rejected %	21%	22%	10%	23%	19%	17%

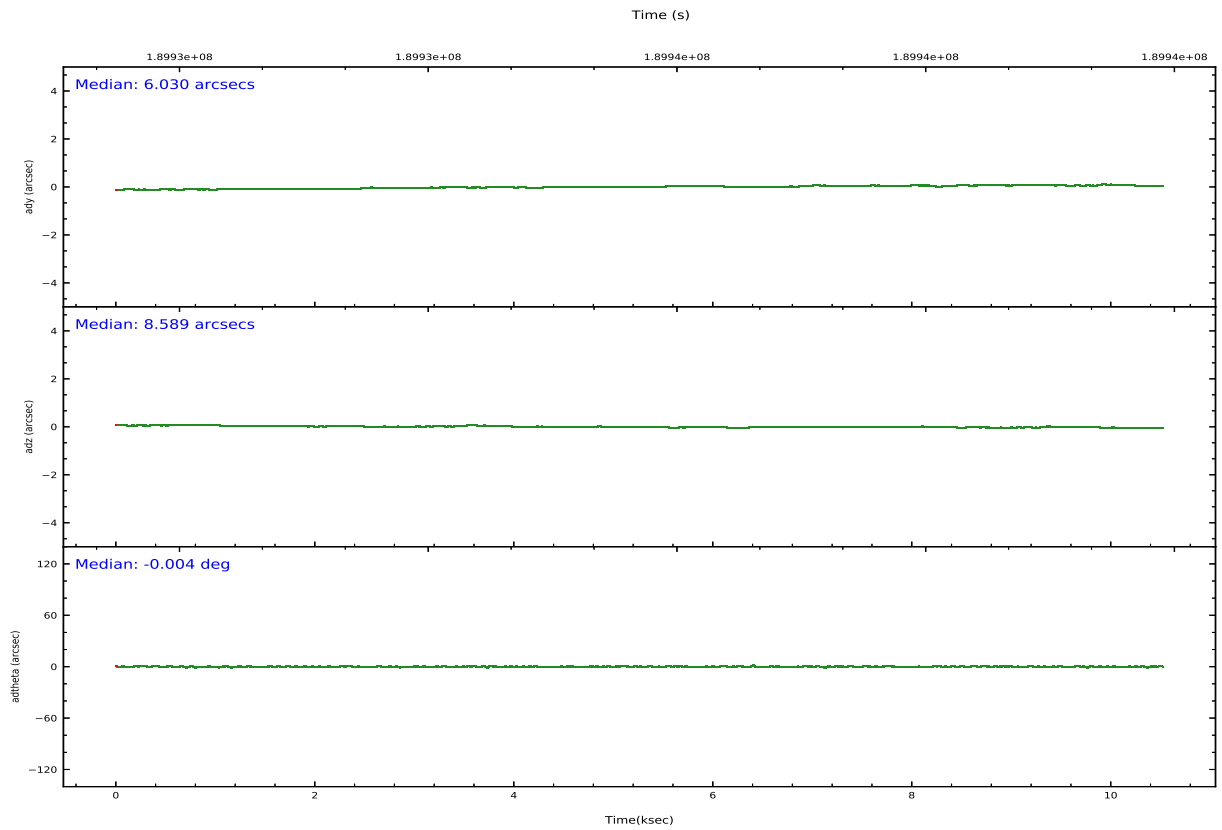
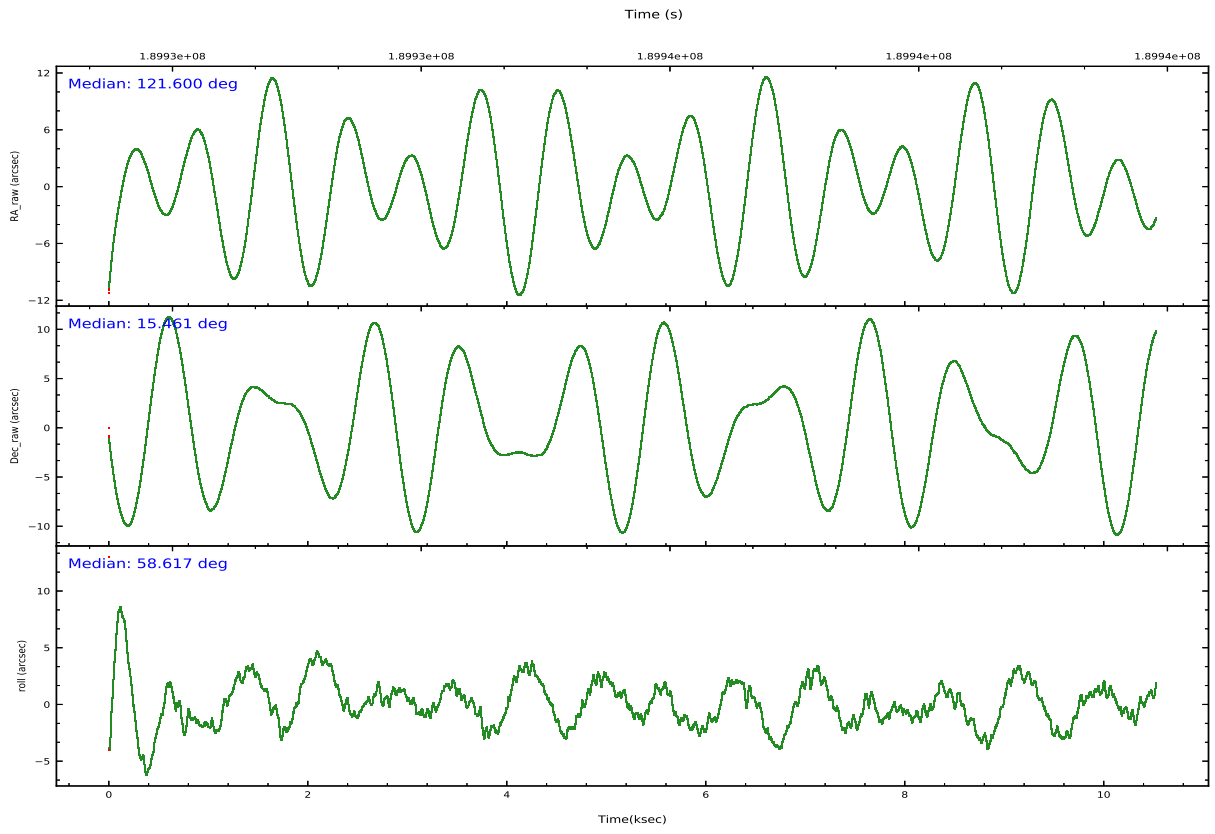
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	1392	1353	25387	1150	3195	4613
	10%	9%	32%	8%	7%	16%
grade 1 events	47	35	66	34	58	93
	0%	0%	0%	0%	0%	0%
grade 2 events	4265	4500	18484	4289	9367	7600
	32%	32%	23%	31%	21%	27%
grade 3 events	1335	1543	994	1367	1547	2951
	10%	11%	1%	10%	3%	10%
grade 4 events	1375	1256	956	1324	1470	2630
	10%	9%	1%	9%	3%	9%
grade 5 events	2258	2546	5122	2608	6463	3523
	17%	18%	6%	19%	14%	12%
grade 6 events	2386	2649	27379	2819	21198	6374
	18%	19%	34%	20%	48%	22%
grade 7 events	0	0	0	0	0	0
	0%	0%	0%	0%	0%	0%

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	CC33_GRADED	CC33_GRADED	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	121.600026	121.60157347554	Subarray requested	NONE	NONE
[deg] Pointing Dec	15.433717	15.458127638689	Alternating exposures requested	N	N
[deg] Pointing Roll	58.458806	58.616651283153	[s] Primary exposure time	0.000000	0
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	189929886.184000	189928755.67521			
Observation start date	2004-01-08T06:17:02	2004-01-08T05:59:15			
[s] Observation end time (MET)	189939886.184000	189941419.55076			
Observation end date	2004-01-08T09:03:42	2004-01-08T09:30:19			
Read mode	CONTINUOUS	CONTINUOUS			

2.3 Aspect





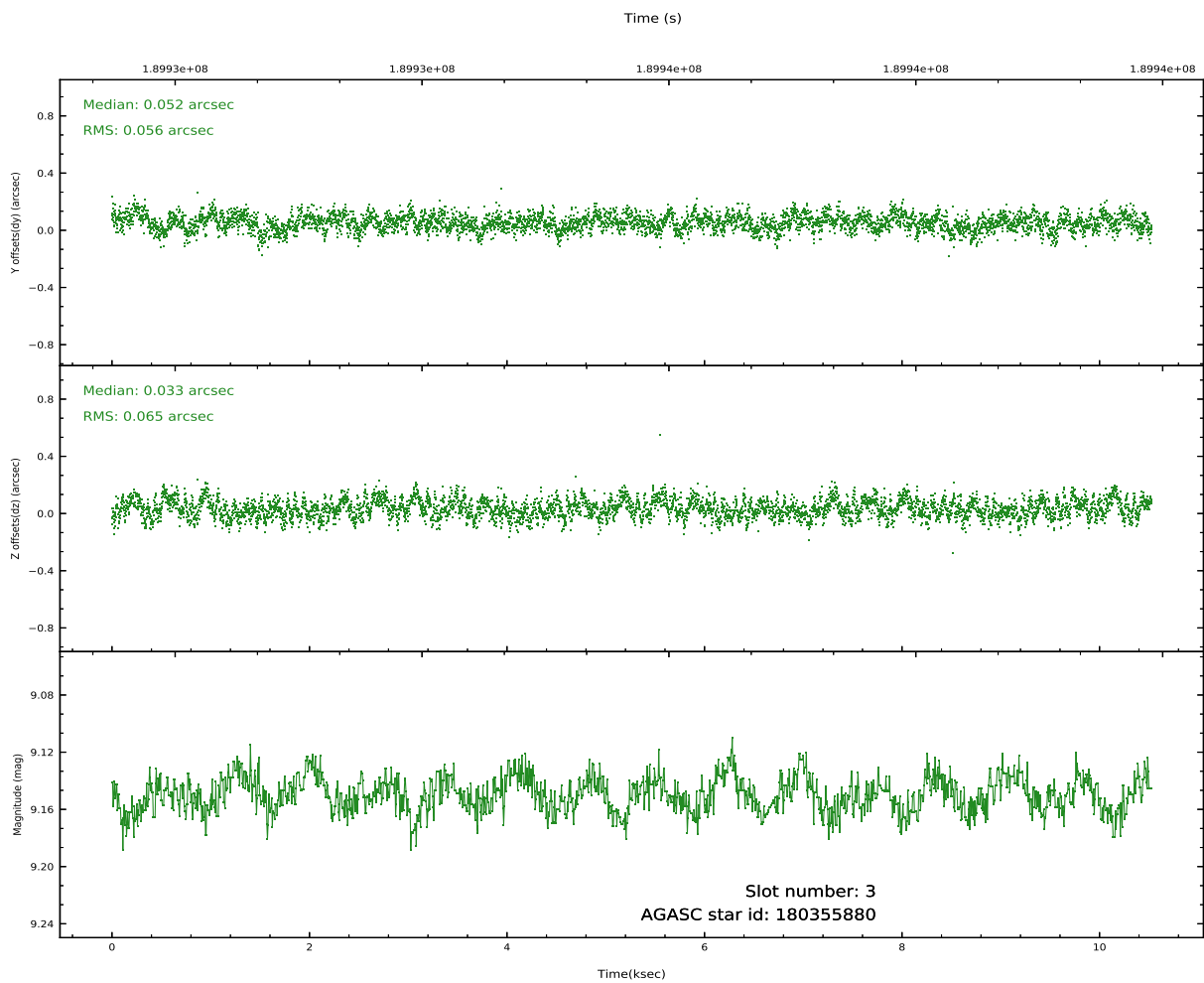
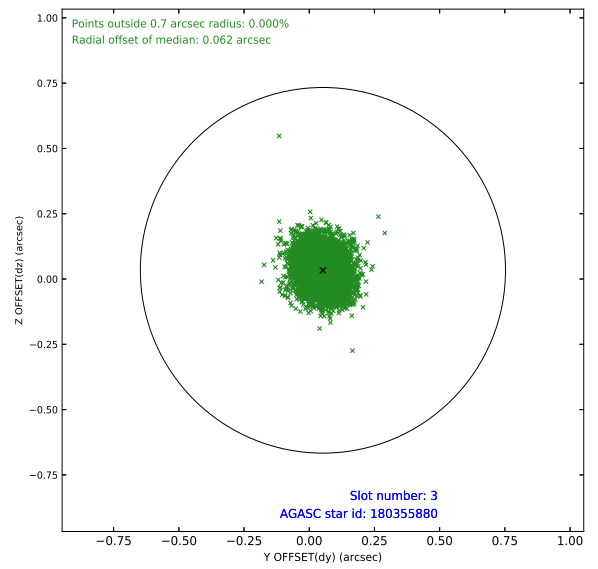
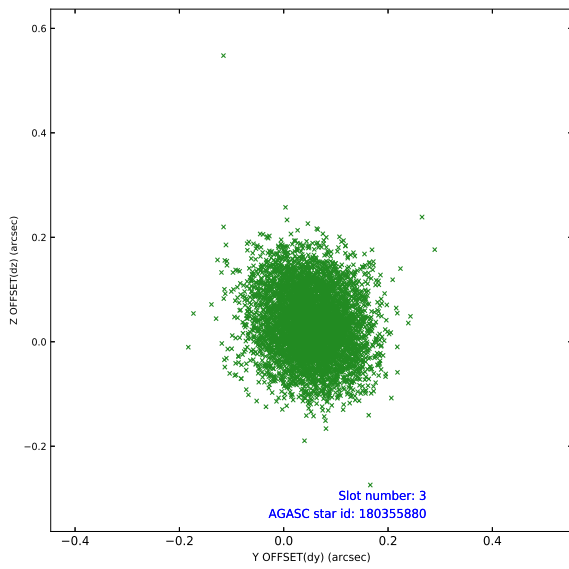
Slot Statistics

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	7.10	2567	1.000	-0.064	-0.080	0.007	0.011	0.000000	0.000000	-758.80	-1729
1	FID		ACIS-S-4	7.21	2568	1.000	0.129	0.052	0.005	0.010	0.000000	0.000000	2154.43	178
2	FID		ACIS-S-5	7.23	2568	1.000	-0.097	0.037	0.006	0.011	0.000000	0.000000	-1811.05	172
3	GUIDE	used	180355880	9.15	5135	1.000	0.052	0.033	0.091	0.145	120.943434	15.103820	-2202.81	1325
4	GUIDE	used	180359160	9.58	5134	1.000	-0.038	0.001	0.107	0.176	121.837257	16.020694	2230.49	406
5	GUIDE	used	180367416	9.12	5135	1.000	-0.004	-0.084	0.090	0.142	120.920648	15.525818	-946.45	2183
6	GUIDE	used	180370112	8.39	5136	1.000	-0.054	0.078	0.060	0.097	121.144488	15.364256	-1040.14	1218
7	GUIDE	used	180372496	7.93	5135	1.000	0.043	-0.029	0.067	0.102	121.745221	15.155380	-589.79	-953

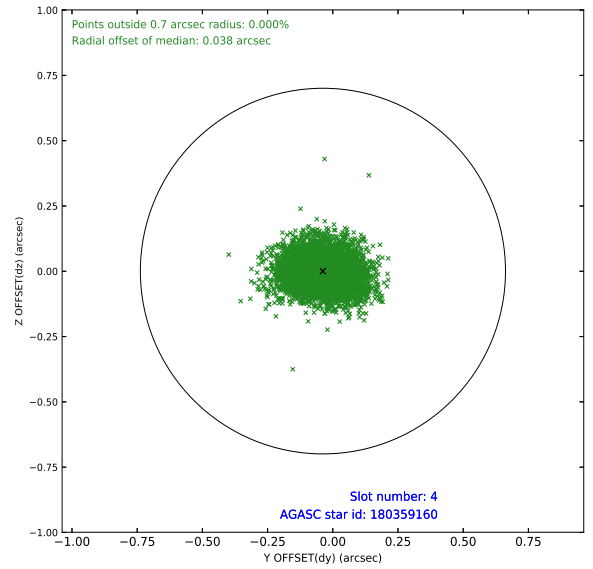
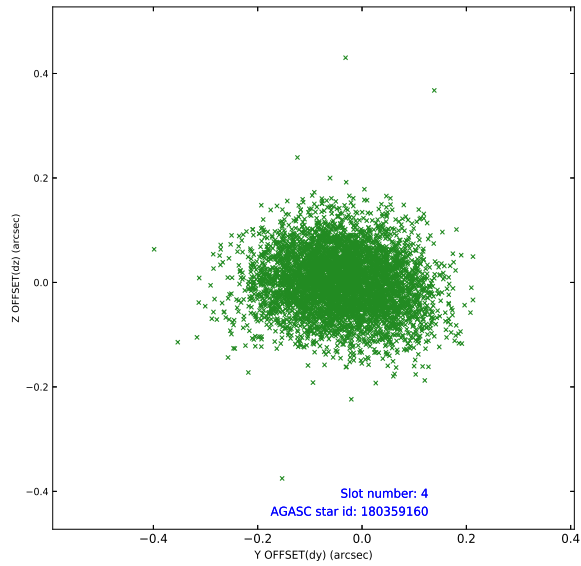
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2.4 Star Slots

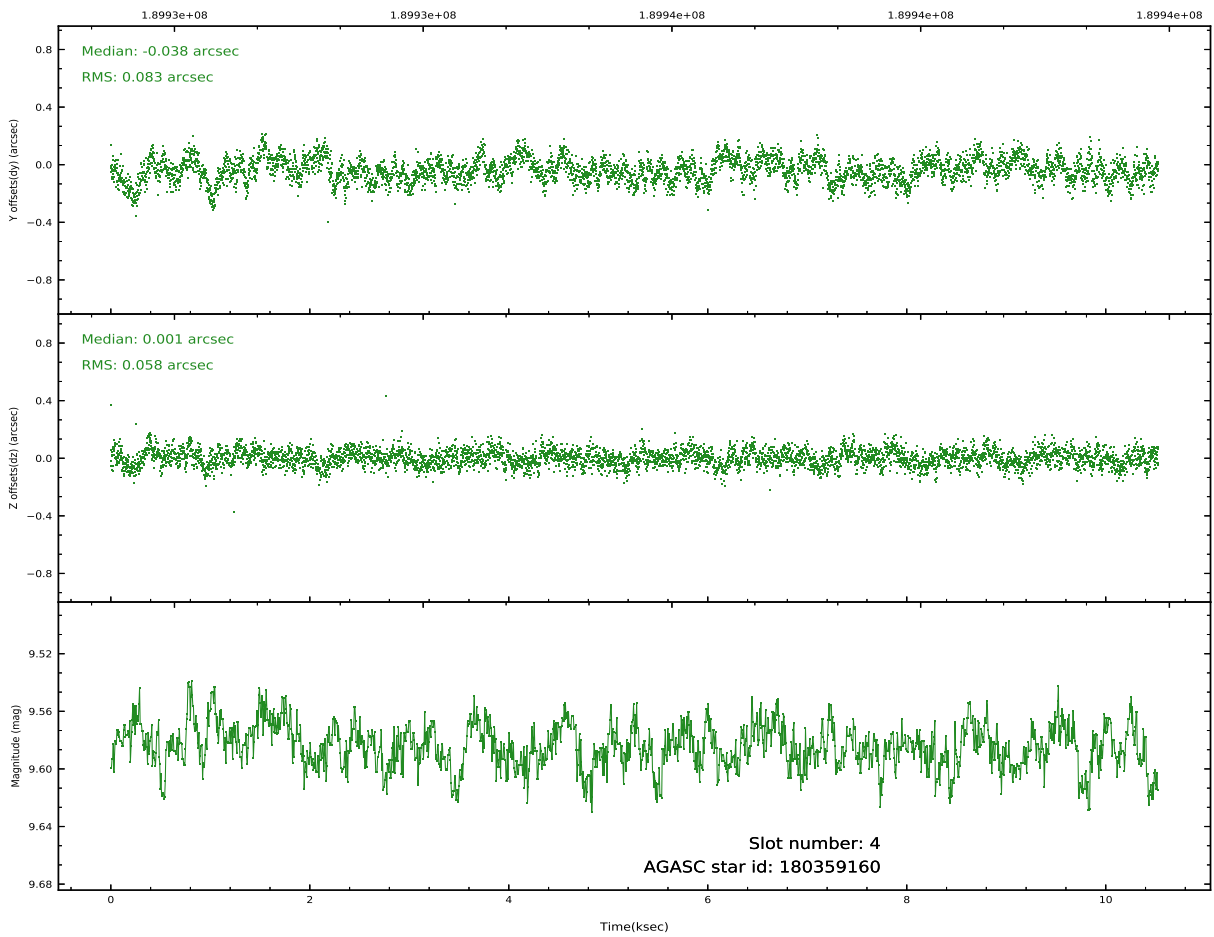
2.4.1 Slot 3



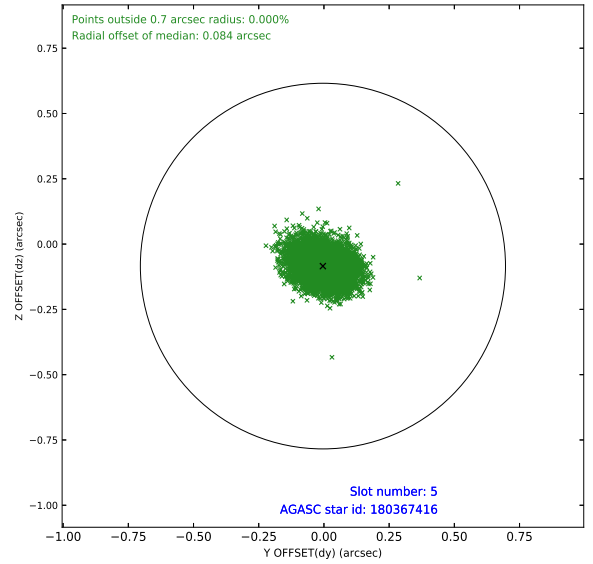
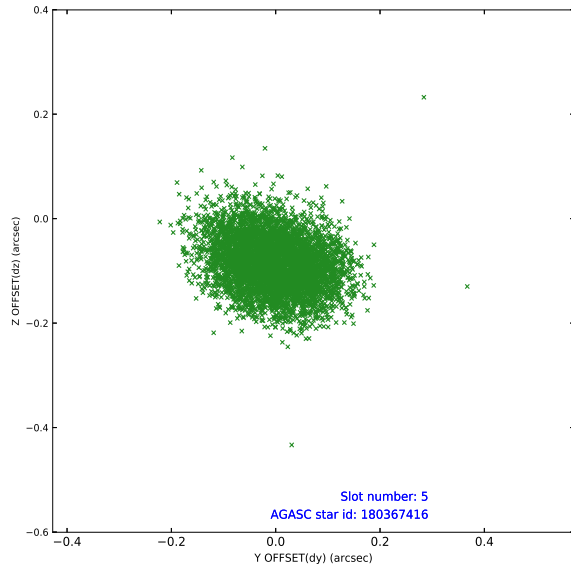
2.4.2 Slot 4



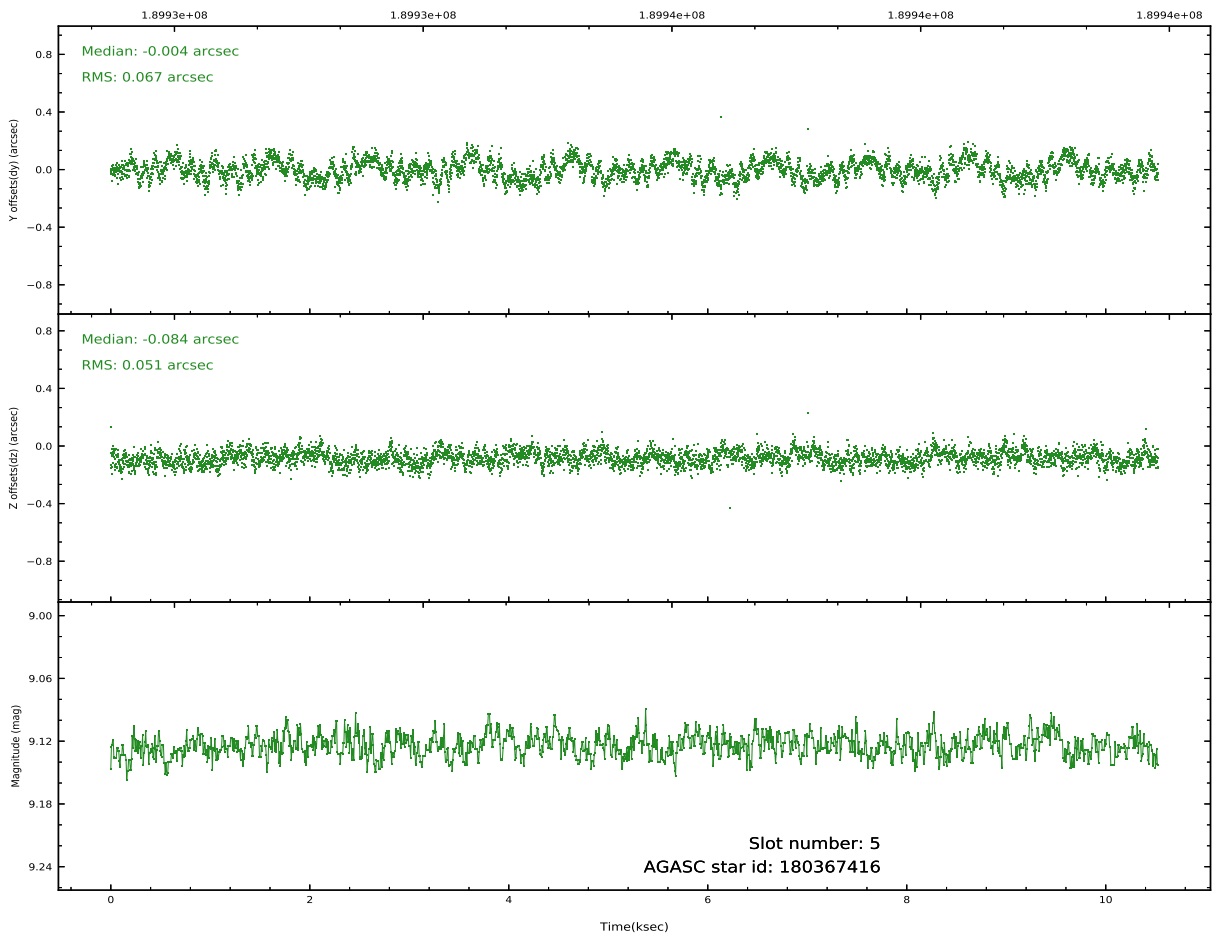
Time (s)



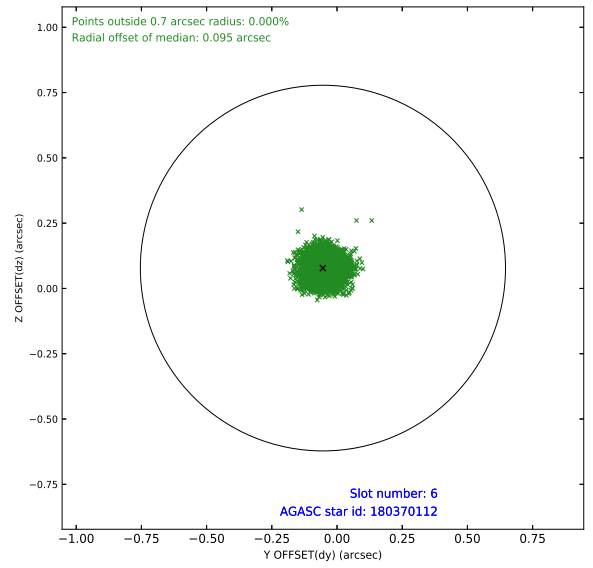
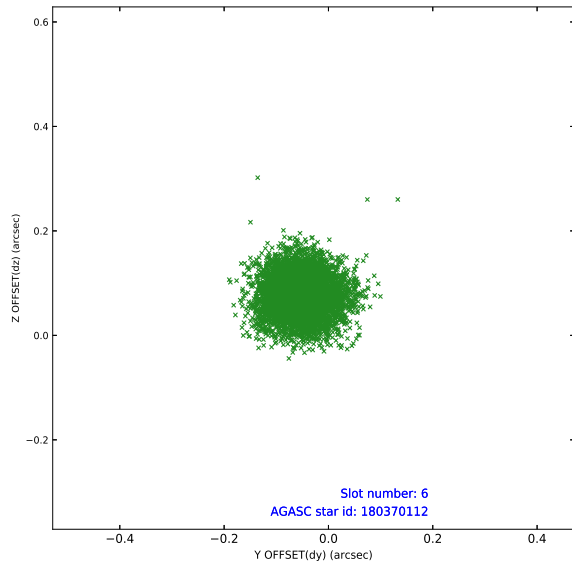
2.4.3 Slot 5



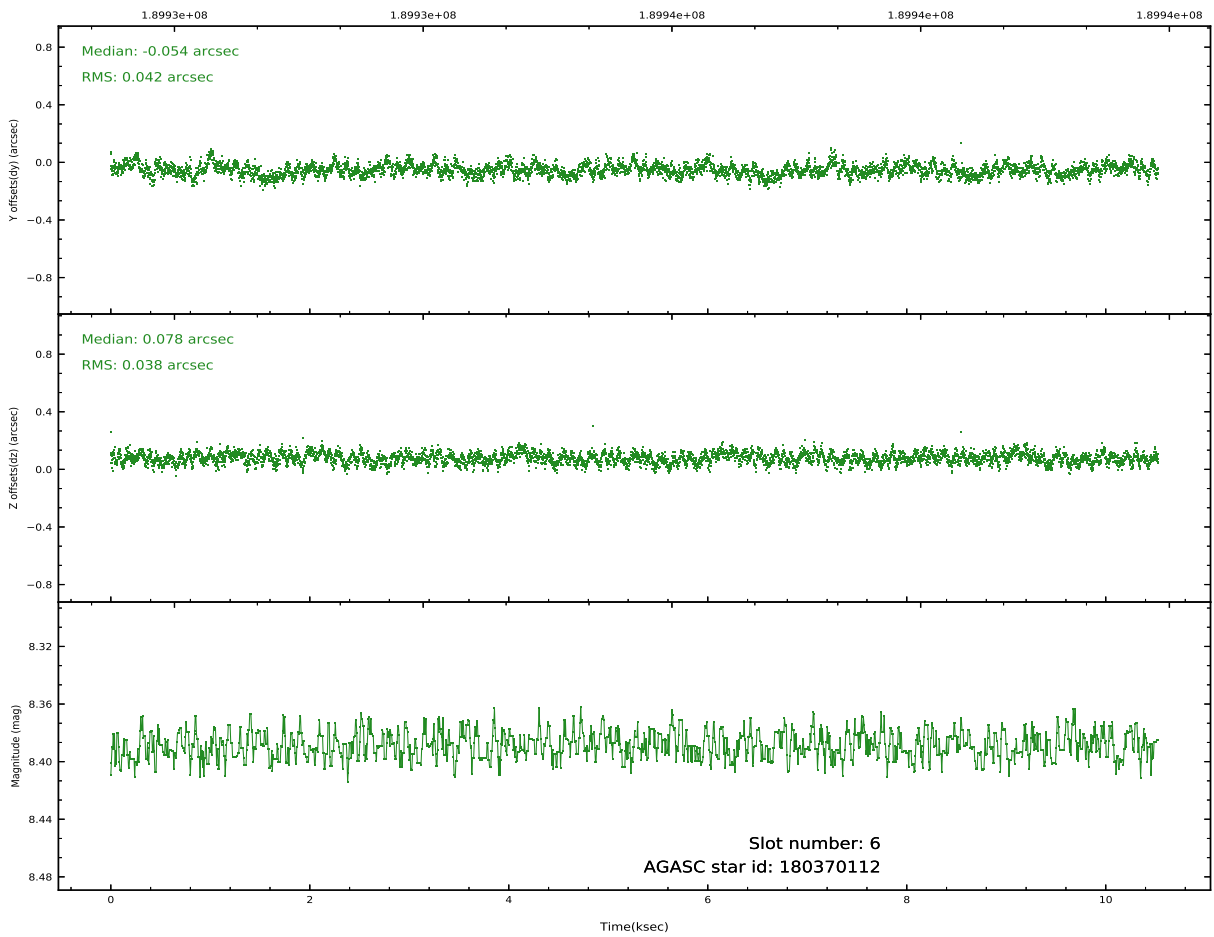
Time (s)



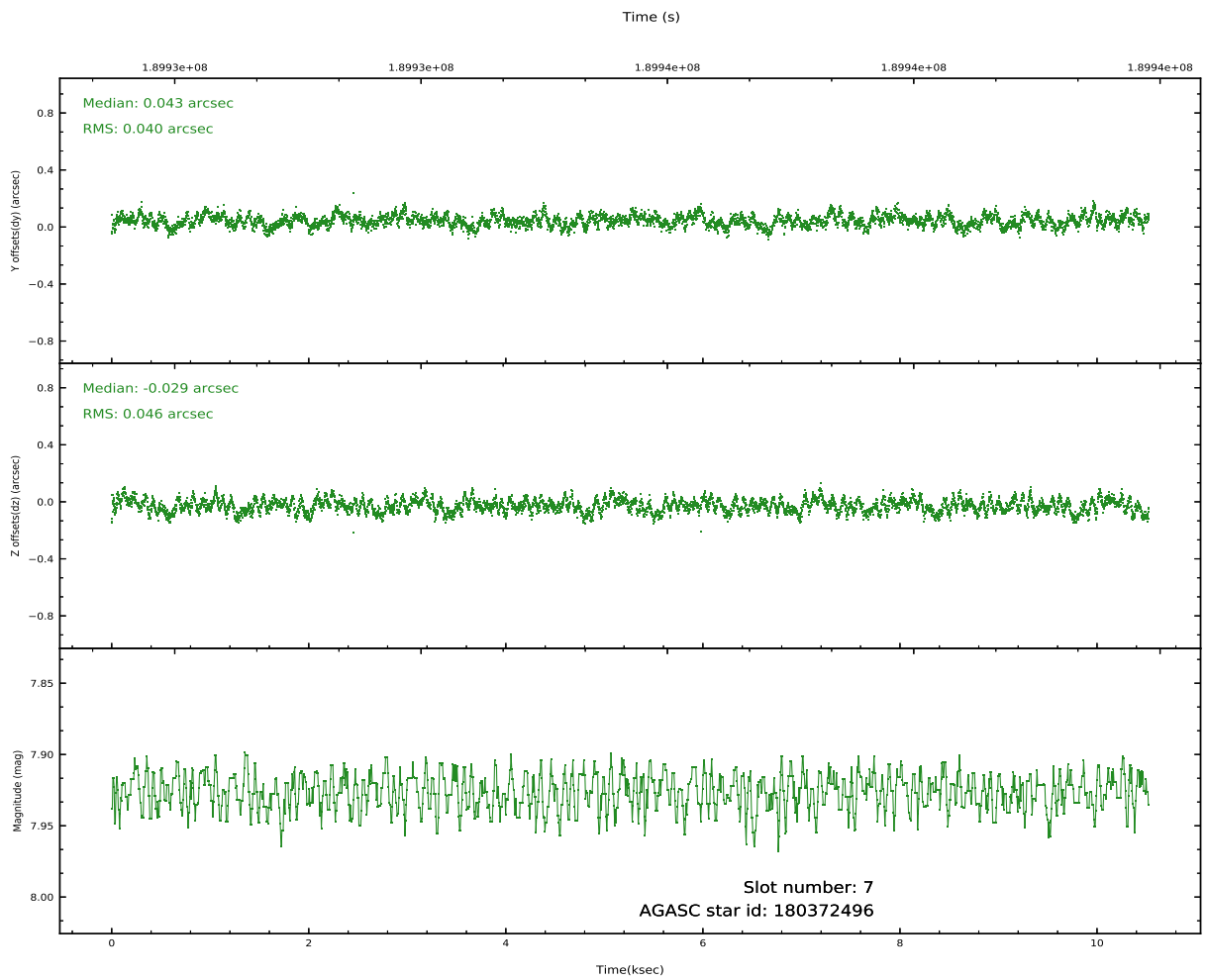
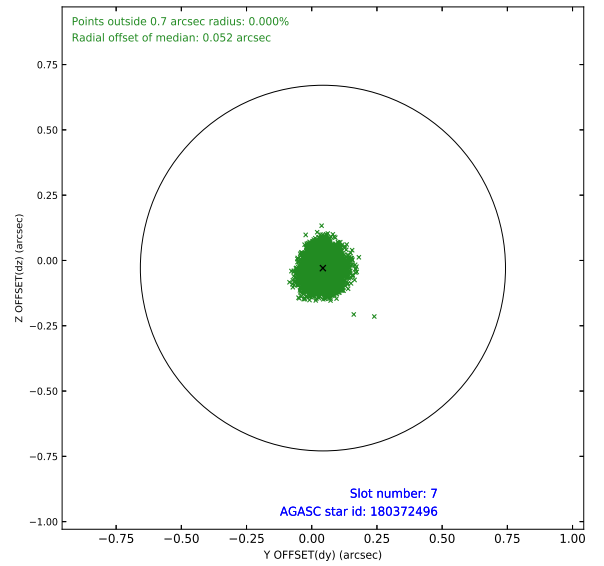
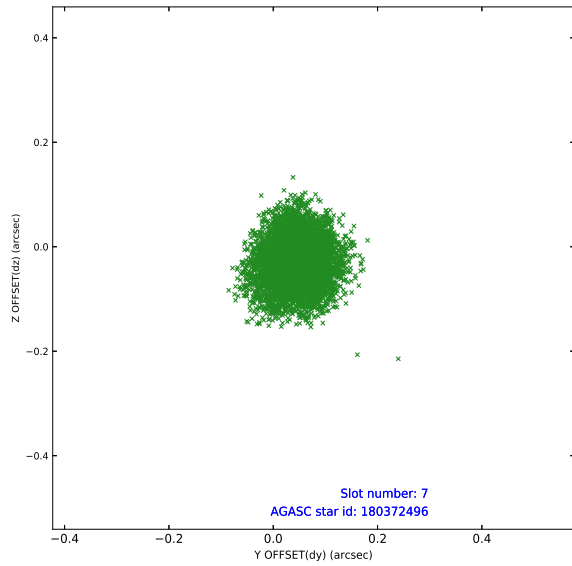
2.4.4 Slot 6



Time (s)

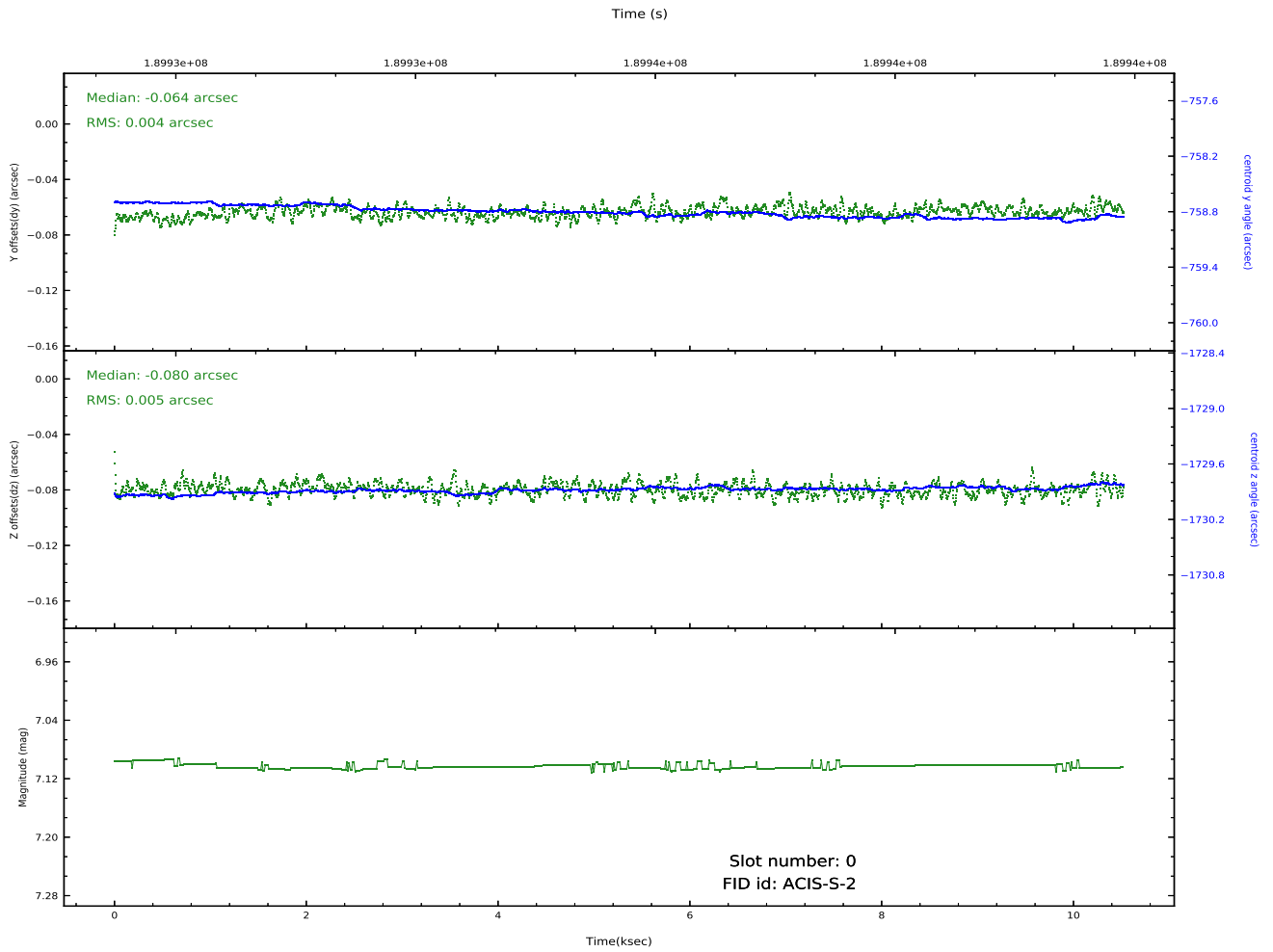
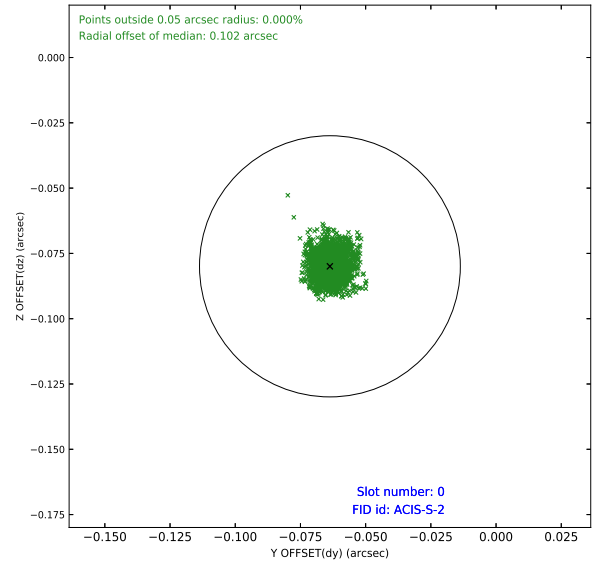
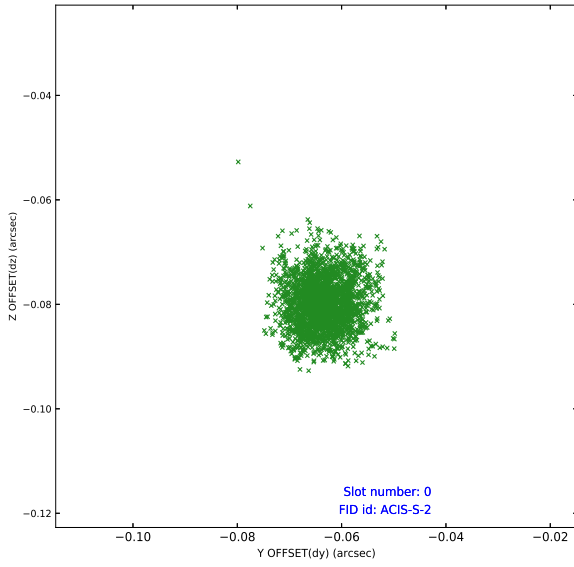


2.4.5 Slot 7

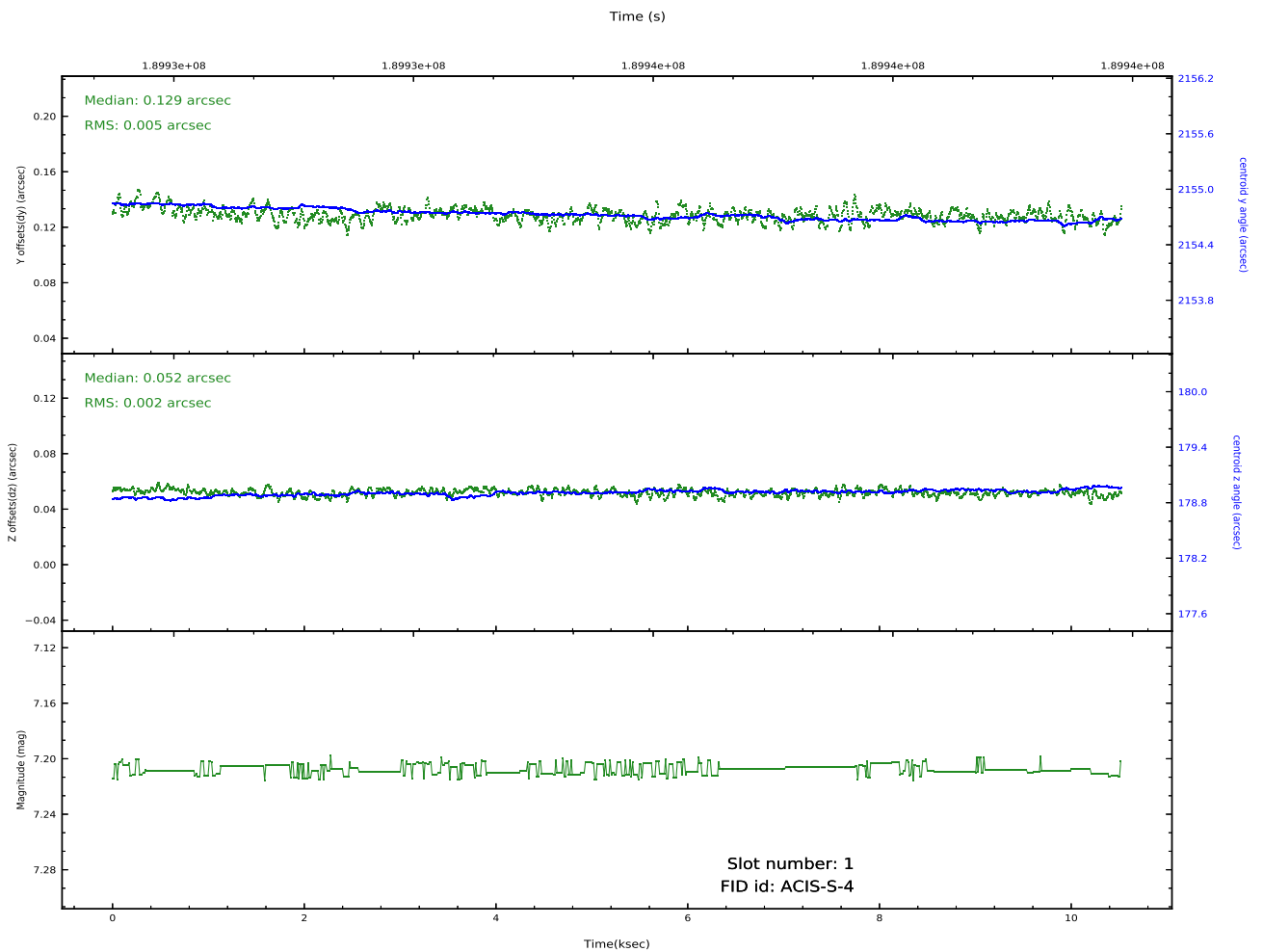
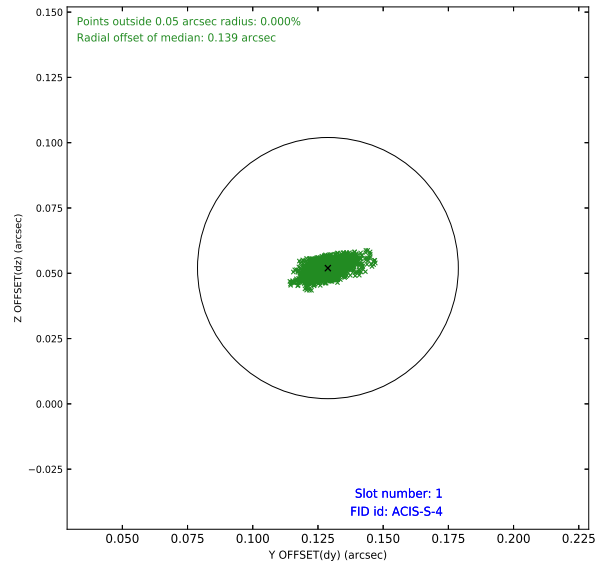
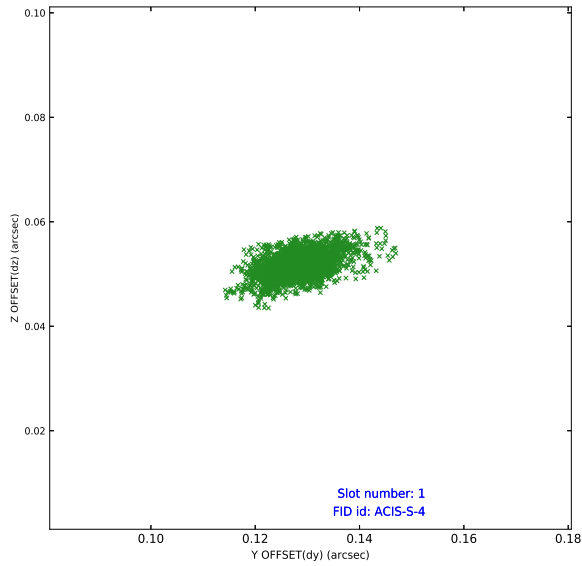


2.5 FID Slots

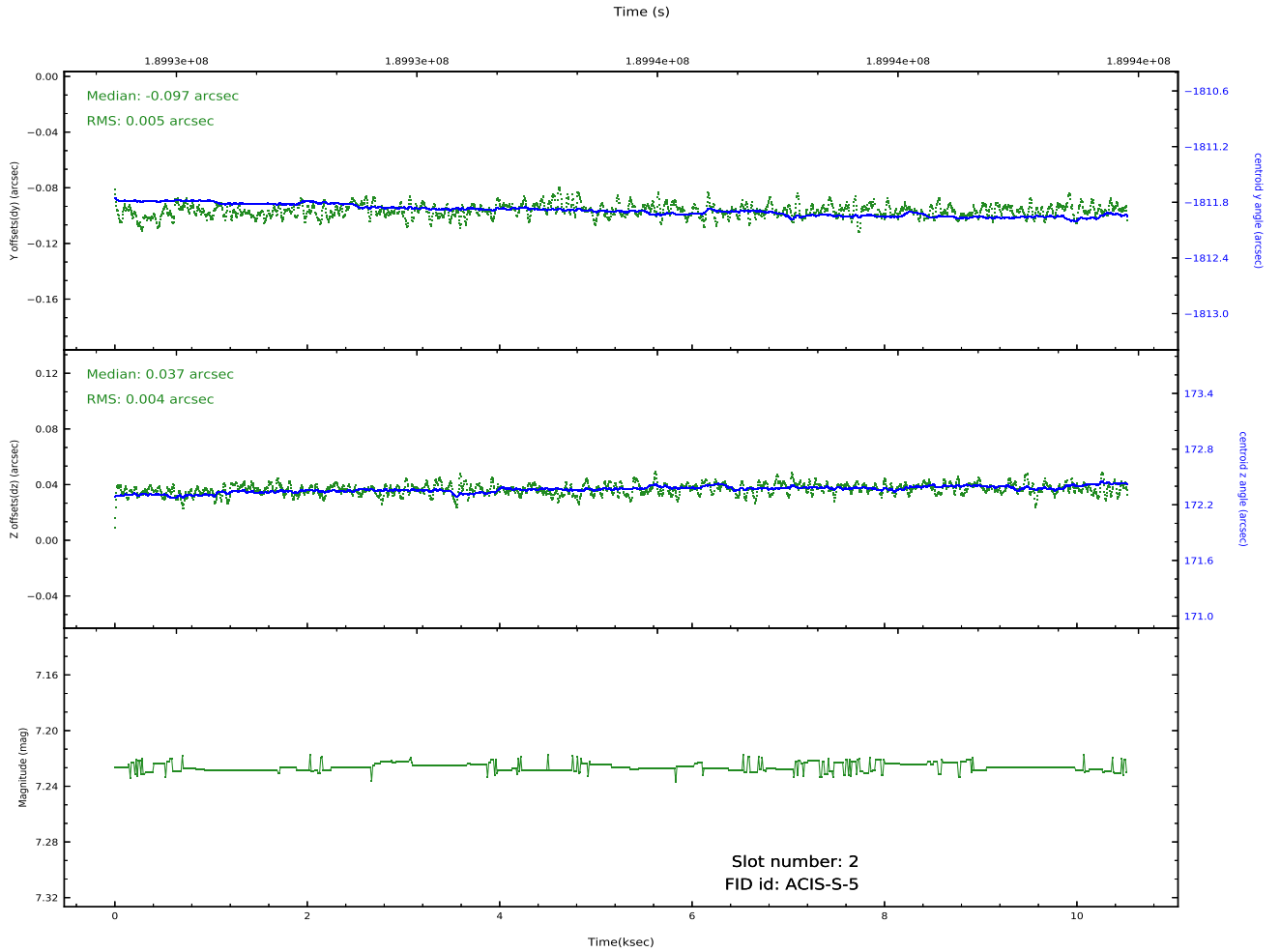
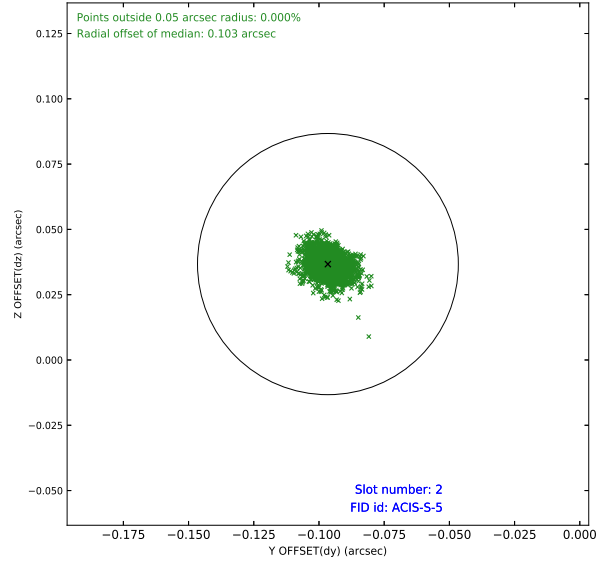
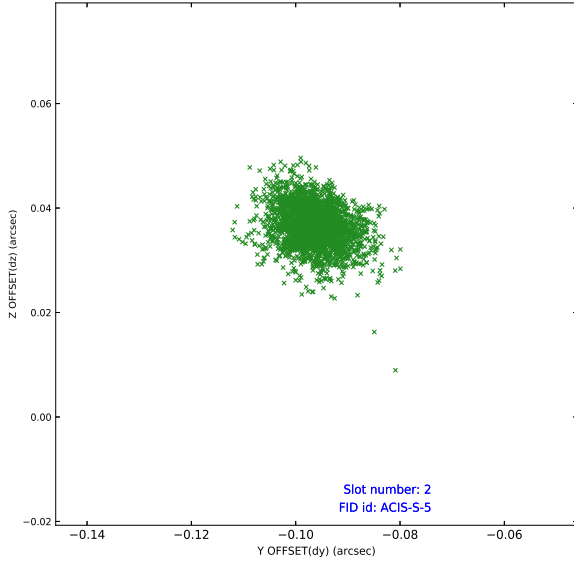
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2020.09.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.525

A.2 Comments