

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 6342 - L2 Version 4
Chandra X-Ray Center

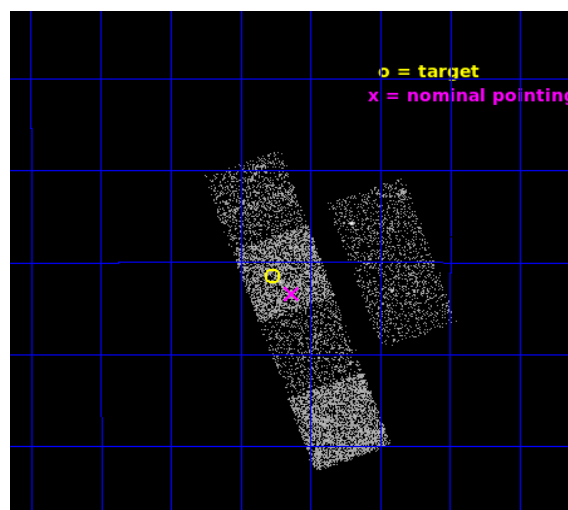
L2 Processing Date : Oct 9 2020

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1 Front

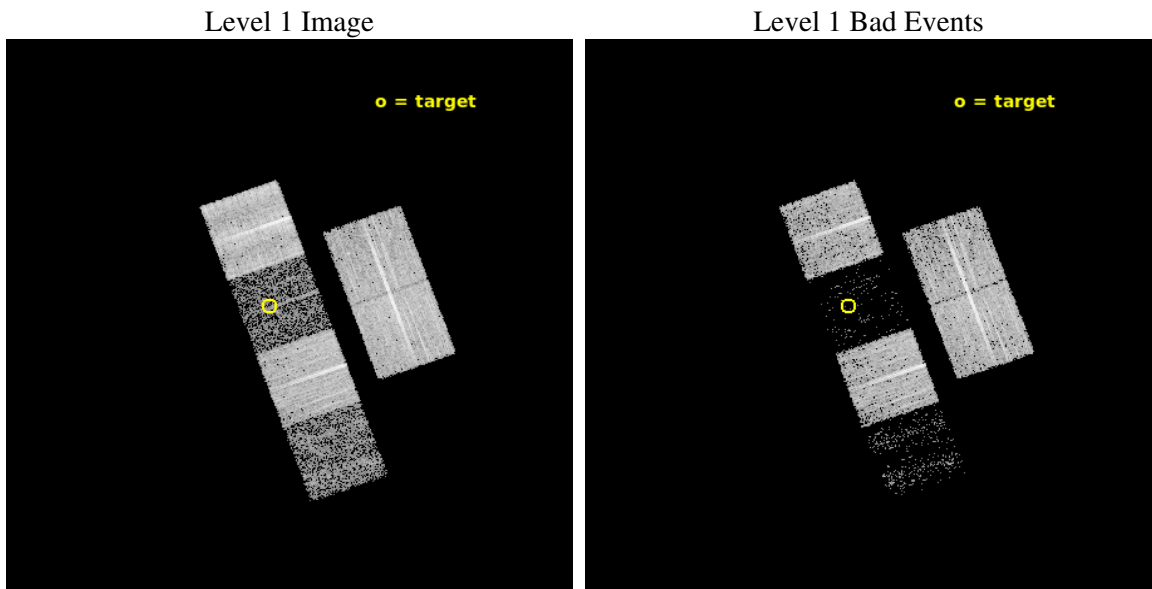
seq_num	100057	Sequence number
obs_id	6342	Observation id
title	Comet 9P/Tempel 1 During the Deep Impact Encounter	Proposal title
observer	Carey Lisse	Principal investigator
object	Comet 9P/Tempel 1	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	209.192981	Observer's specified target RA [deg]
dec_targ	-13.35923	Observer's specified target Dec [deg]
ra_nom	209.1581078131	Nominal RA [deg]
dec_nom	-13.390398166004	Nominal Dec [deg]
roll_nom	250.10115937173	Nominal Roll [deg]
revision	4	Processing version of data
ontime	8502.3999683261	Sum of GTIs [s]
livetime	8394.7374603965	Livetime [s]
ontime2	8502.3999683261	Sum of GTIs [s]
ontime3	8495.9180277586	Sum of GTIs [s]
ontime5	8502.3999683261	Sum of GTIs [s]
ontime6	8502.3999683261	Sum of GTIs [s]
ontime7	8502.3999683261	Sum of GTIs [s]
ontime8	8502.3999683261	Sum of GTIs [s]
l2events	12228	Number of level 2 events



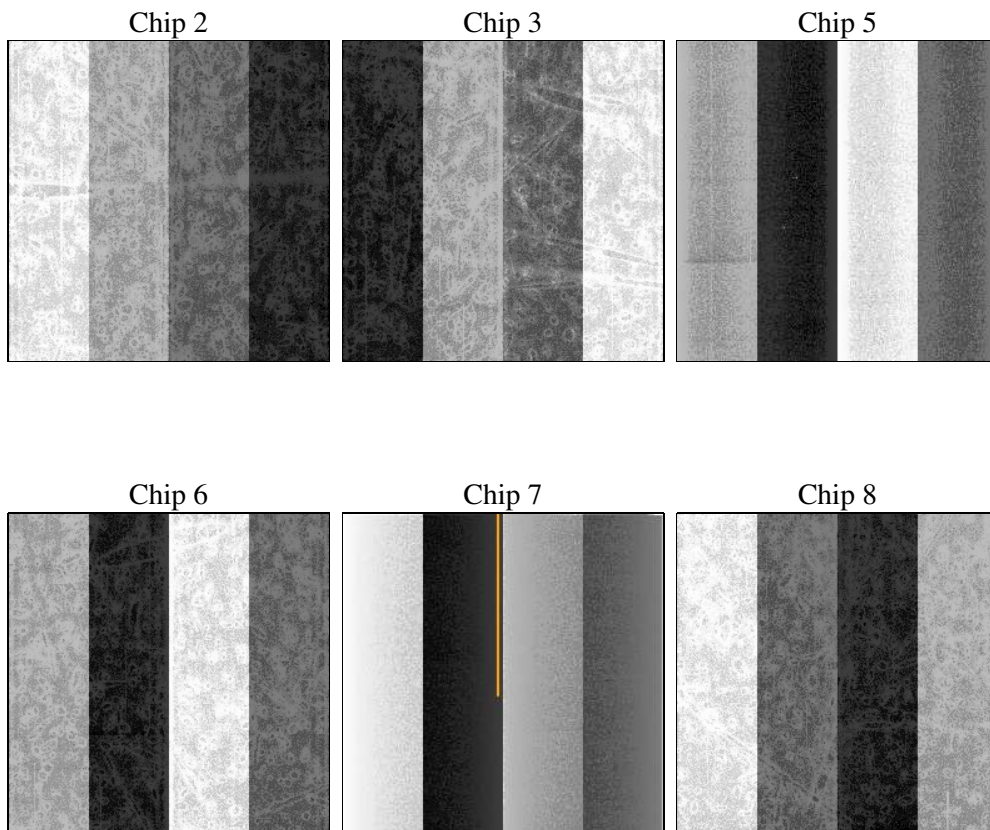
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	8325.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	8502.3999683261	Sum of GTIs [s]
caldsver	4.9.2	 	ontime2	8502.3999683261	Sum of GTIs [s]
date	2020-10-09T08:55:51	Date and time of file creation	ontime3	8495.9180277586	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	8502.3999683261	Sum of GTIs [s]
			ontime6	8502.3999683261	Sum of GTIs [s]
			ontime7	8502.3999683261	Sum of GTIs [s]
			ontime8	8502.3999683261	Sum of GTIs [s]
			l1events	173461	Number of level 1 events

2.1.4 Events

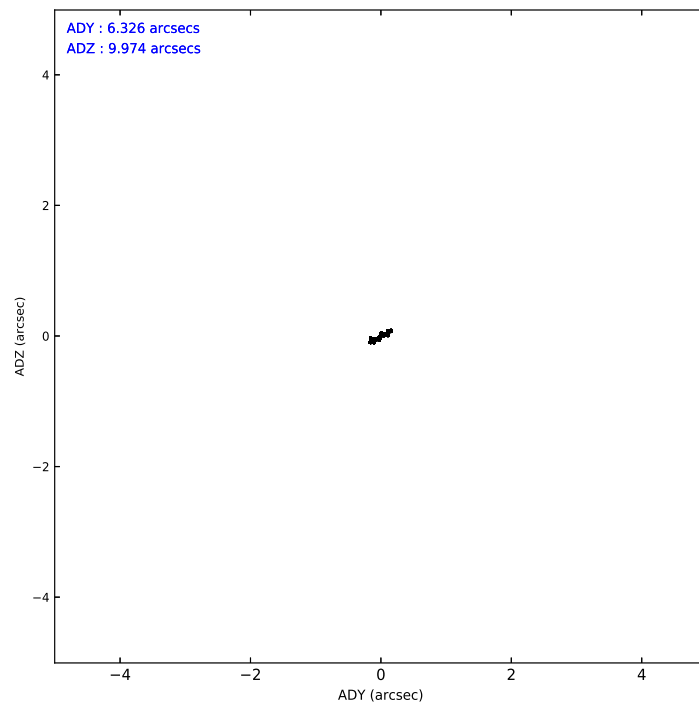
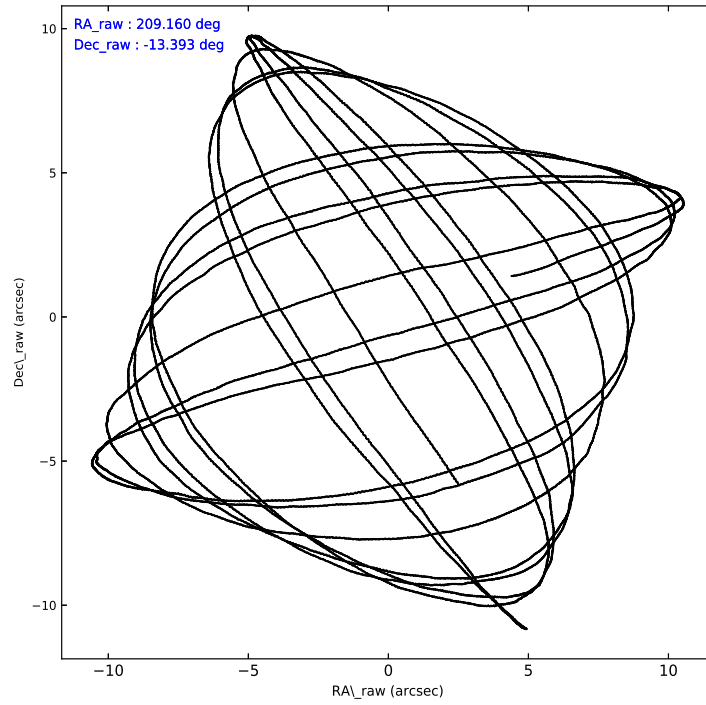
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	42830	34981	6738	36893	5232	46787
rejected events	40882	33624	2261	35271	1143	32730
rejected %	95%	96%	33%	95%	21%	69%

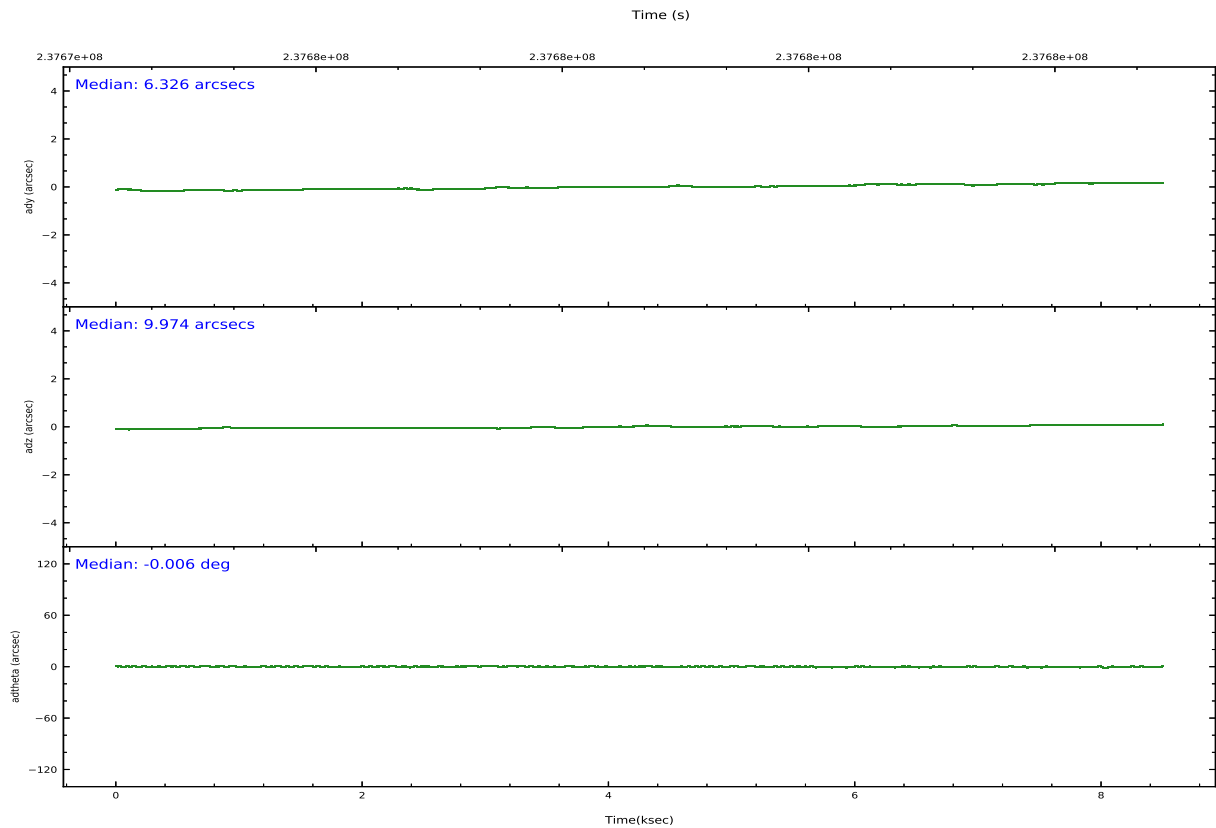
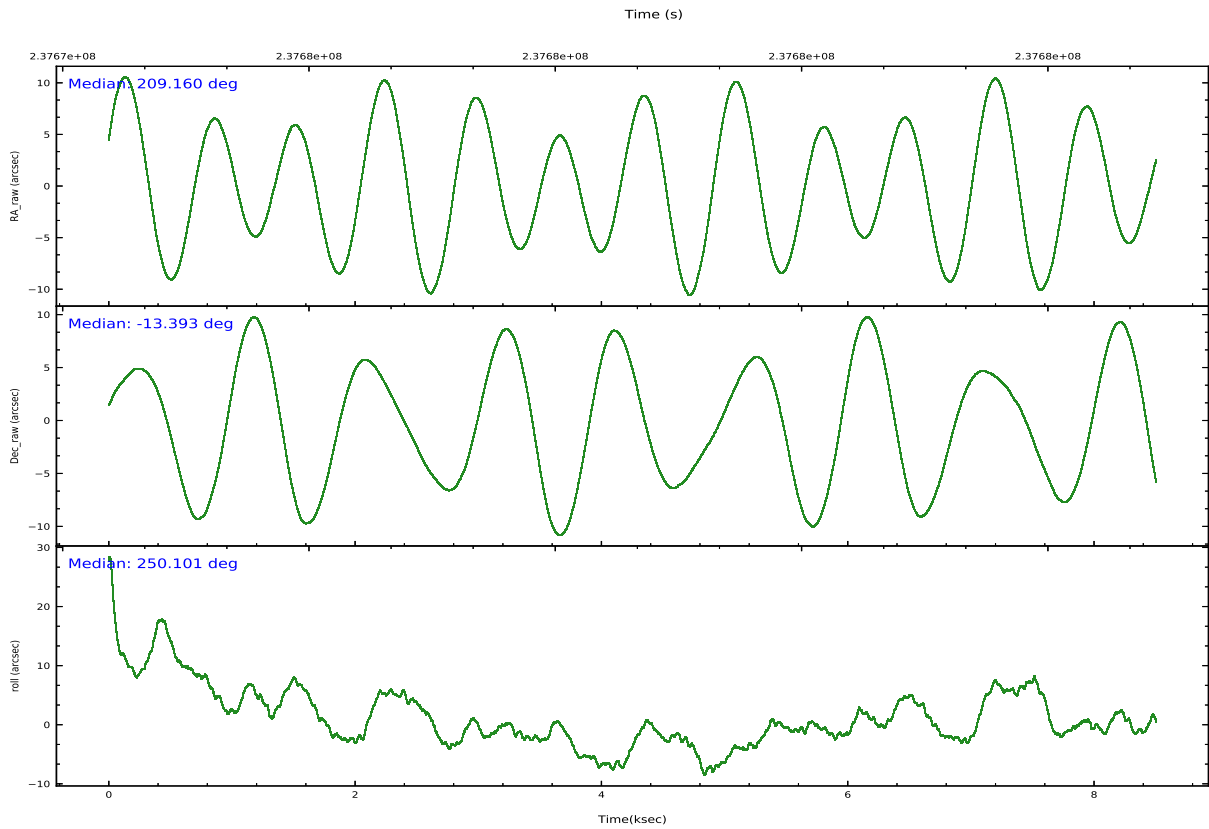
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	869	691	1248	832	1156	3913
	2%	1%	18%	2%	22%	8%
grade 1 events	15	9	39	13	18	44
	0%	0%	0%	0%	0%	0%
grade 2 events	543	188	1676	332	1286	2923
	1%	0%	24%	0%	24%	6%
grade 3 events	189	219	610	215	608	1930
	0%	0%	9%	0%	11%	4%
grade 4 events	257	197	615	198	661	1786
	0%	0%	9%	0%	12%	3%
grade 5 events	58	36	346	30	143	308
	0%	0%	5%	0%	2%	0%
grade 6 events	158	126	509	112	549	3984
	0%	0%	7%	0%	10%	8%
grade 7 events	40741	33515	1695	35161	811	31899
	95%	95%	25%	95%	15%	68%

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	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	209.154910	209.1581078131	Subarray requested	NONE	NONE
[deg] Pointing Dec	-13.366470	-13.390398166004	Alternating exposures requested	N	N
[deg] Pointing Roll	249.940809	250.10115937173	[s] Primary exposure time	0.000000	3.2
[s] Window start time (MET)	237708064.184000	237708064.184000			
[s] Window stop time (MET)	237751264.184000	237751264.184000			
[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)	237674555.184000	237674179.28528			
Observation start date	2005-07-13T20:41:31	2005-07-13T20:36:19			
[s] Observation end time (MET)	237682880.184000	237683013.76068			
Observation end date	2005-07-13T23:00:16	2005-07-13T23:03:33			
Read mode	TIMED	TIMED			

2.3 Aspect





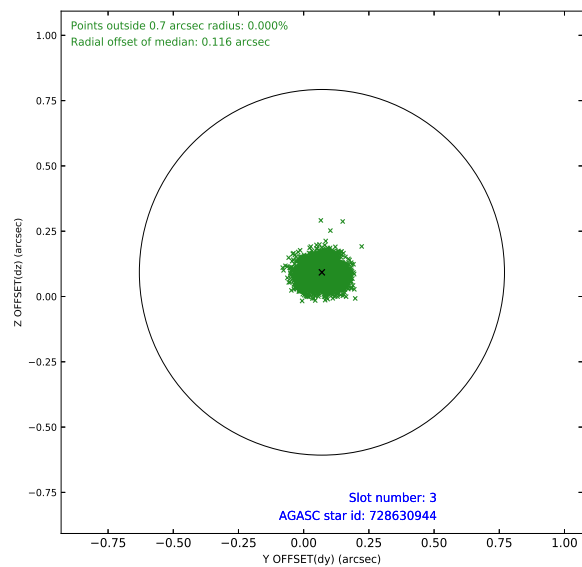
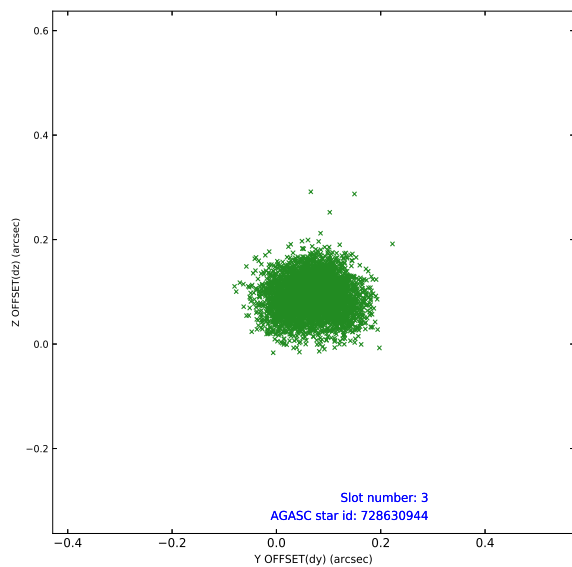
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-S-2	7.10	2075	1.000	-0.098	-0.065	0.006	0.011	0.000000	0.000000	-759.10	-1731
1	FID		ACIS-S-4	7.21	2075	1.000	0.167	0.065	0.006	0.011	0.000000	0.000000	2154.09	176
2	FID		ACIS-S-5	7.23	2075	1.000	-0.100	0.009	0.007	0.012	0.000000	0.000000	-1811.16	170
3	GUIDE	used	728630944	8.26	4150	1.000	0.070	0.093	0.062	0.099	208.923207	-13.740319	1543.36	-298
4	GUIDE	used	728631464	11.11	4139	1.000	-0.044	-0.059	0.196	0.320	208.876674	-12.686242	-1963.57	-1757
5	GUIDE	used	728638600	9.41	4142	1.000	-0.053	-0.151	0.087	0.143	209.320543	-13.467304	142.37	668
6	GUIDE	used	728639032	9.16	4149	1.000	0.189	0.238	0.075	0.122	209.196450	-13.877558	1679.52	768
7	GUIDE	used	728633480	9.93	4140	1.000	-0.162	-0.123	0.115	0.187	208.432486	-13.299426	645.91	-2459

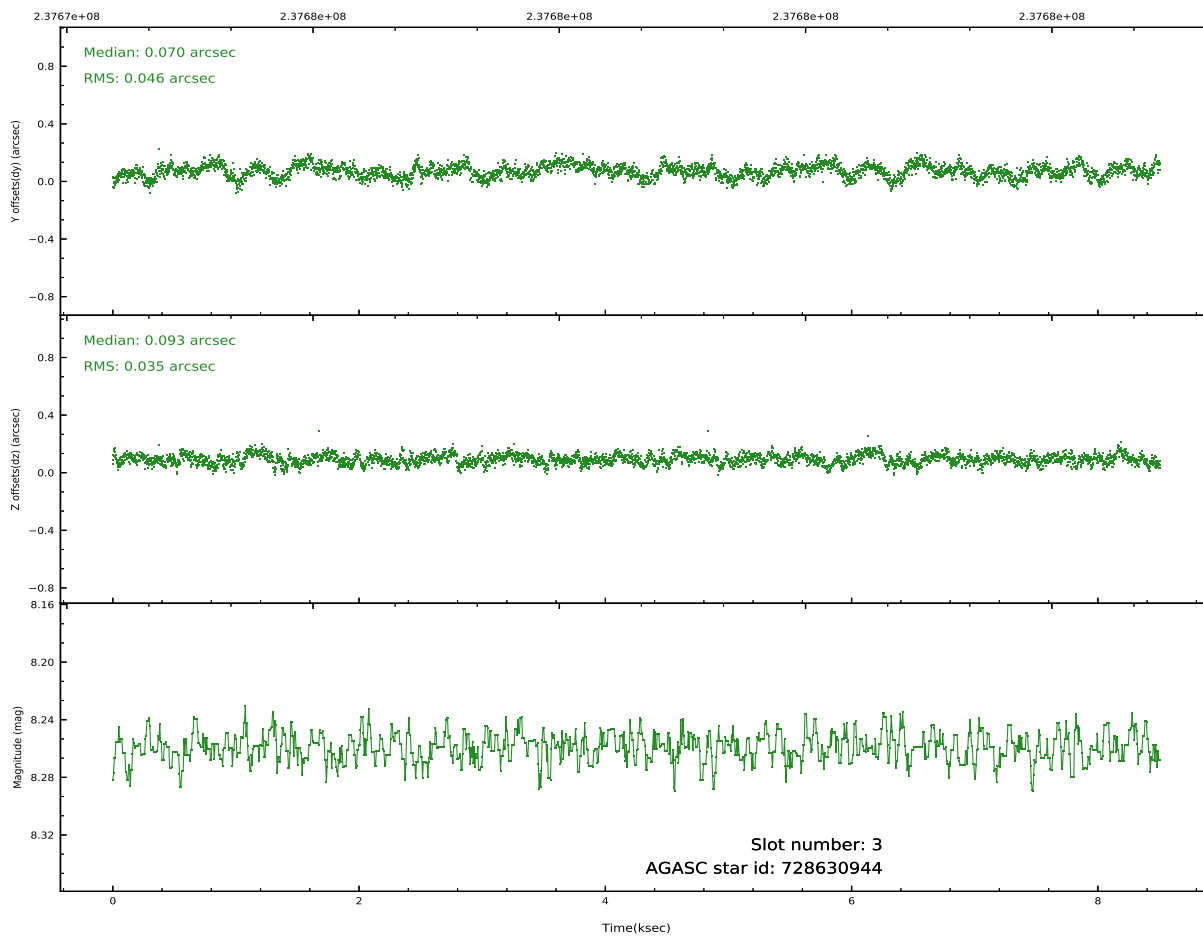
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2.4 Star Slots

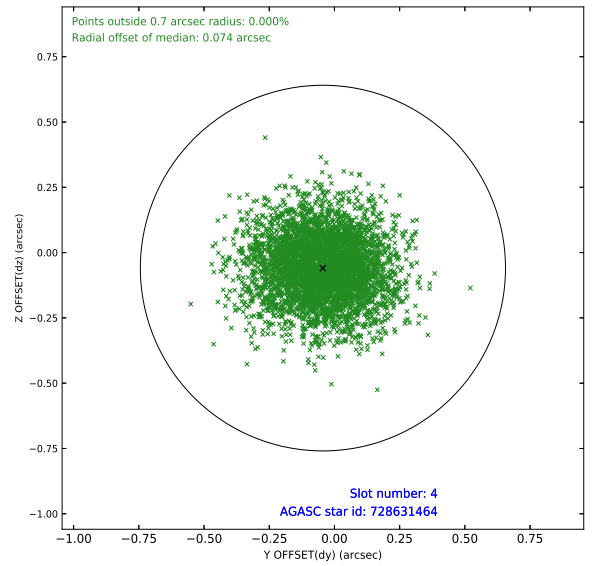
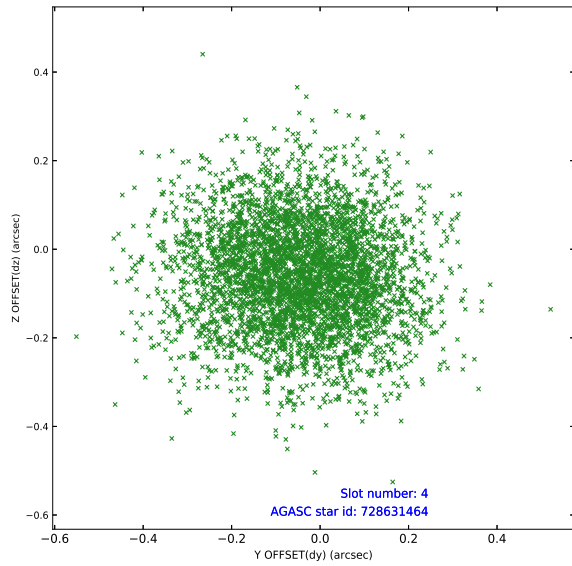
2.4.1 Slot 3



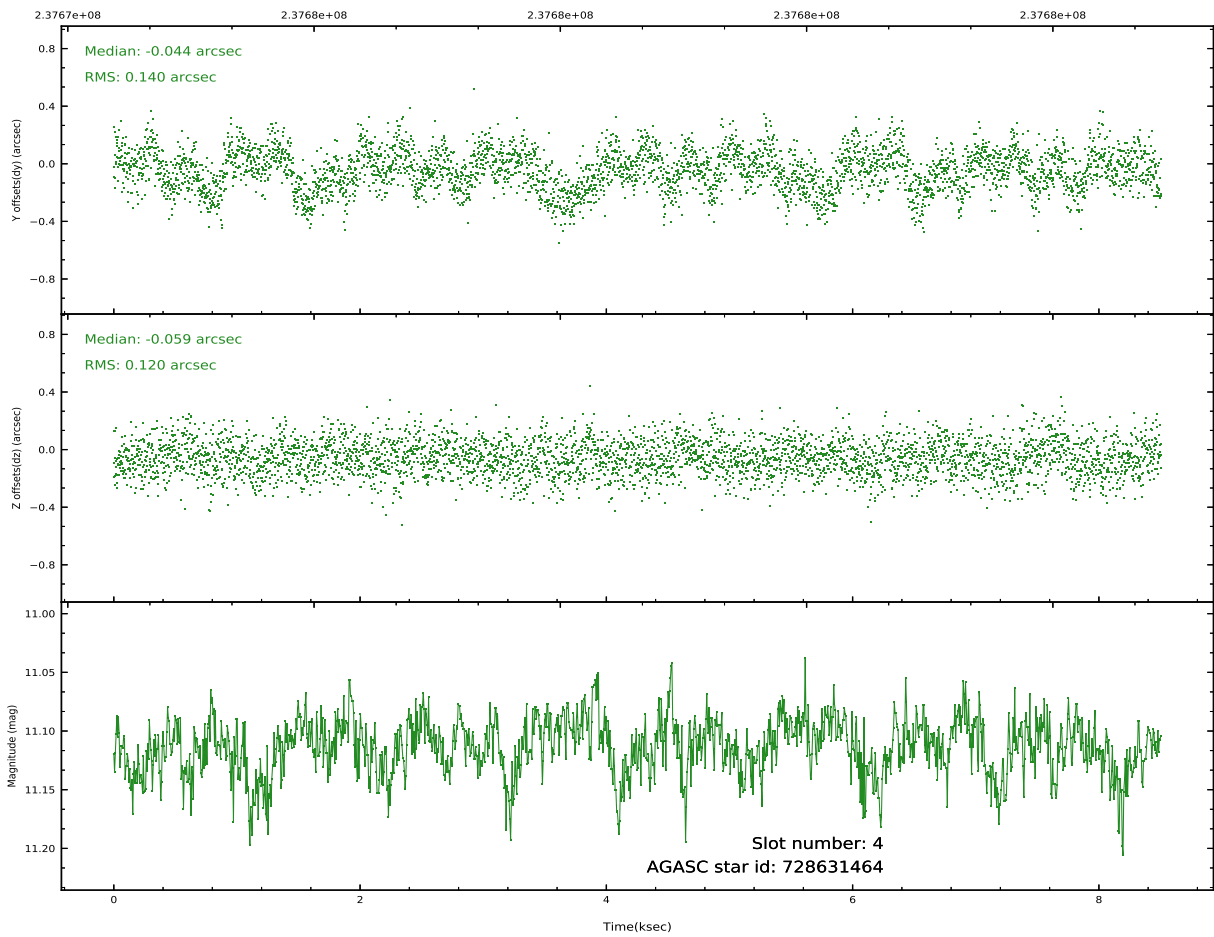
Time (s)



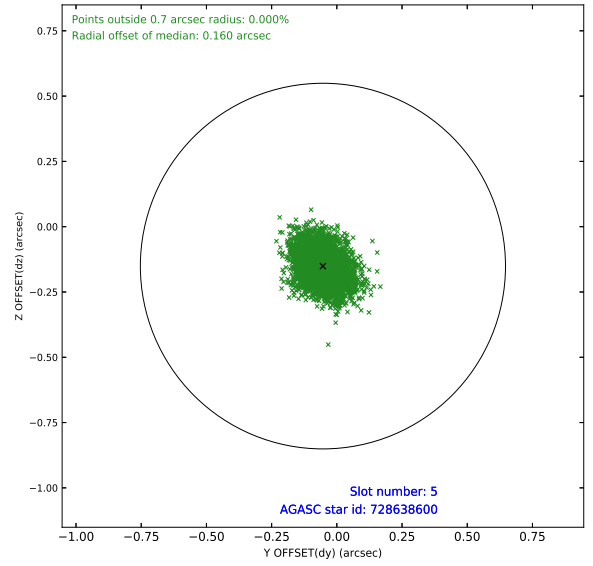
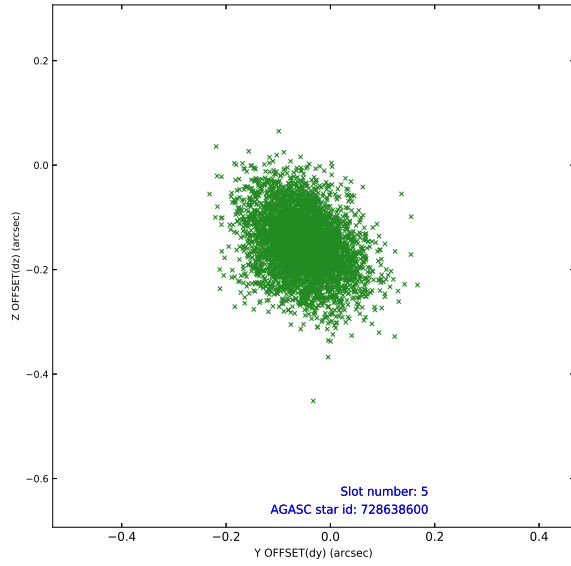
2.4.2 Slot 4



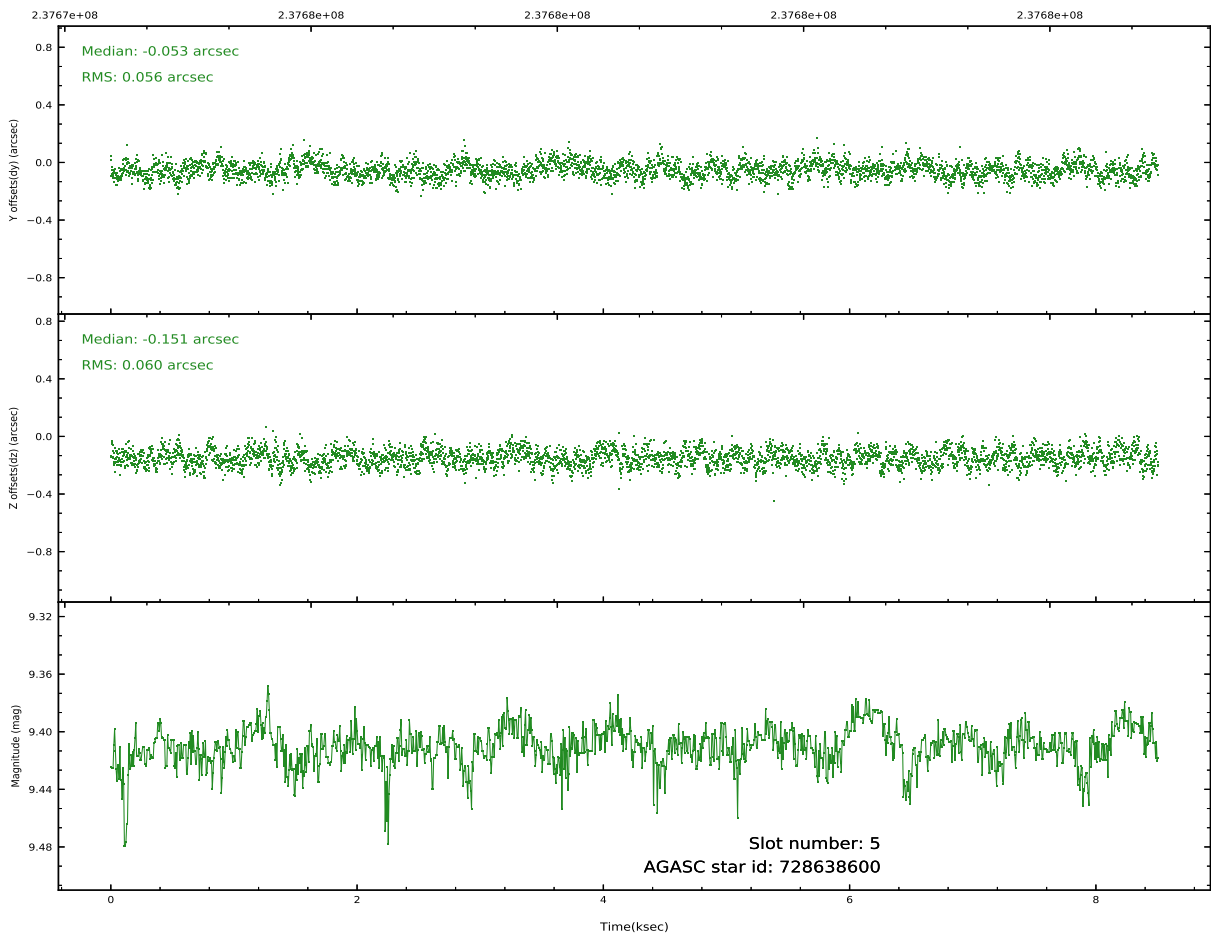
Time (s)



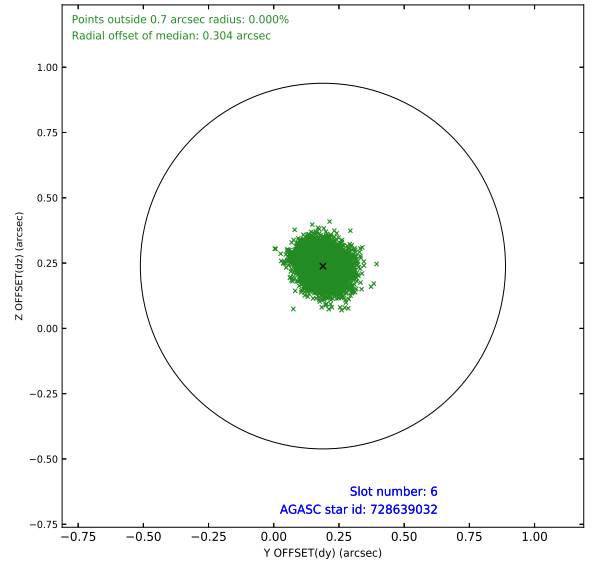
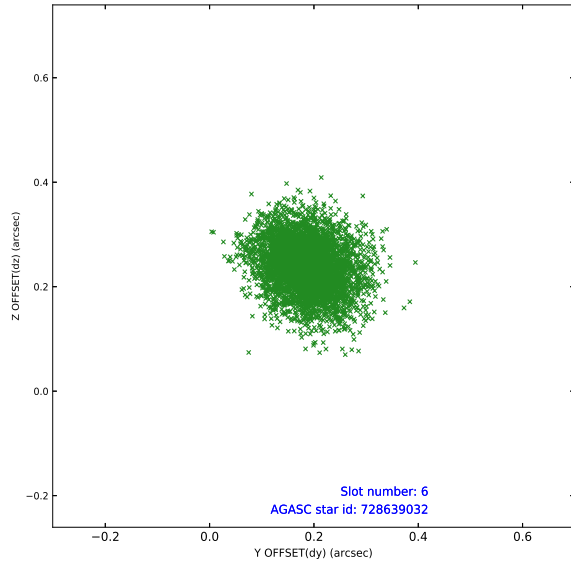
2.4.3 Slot 5



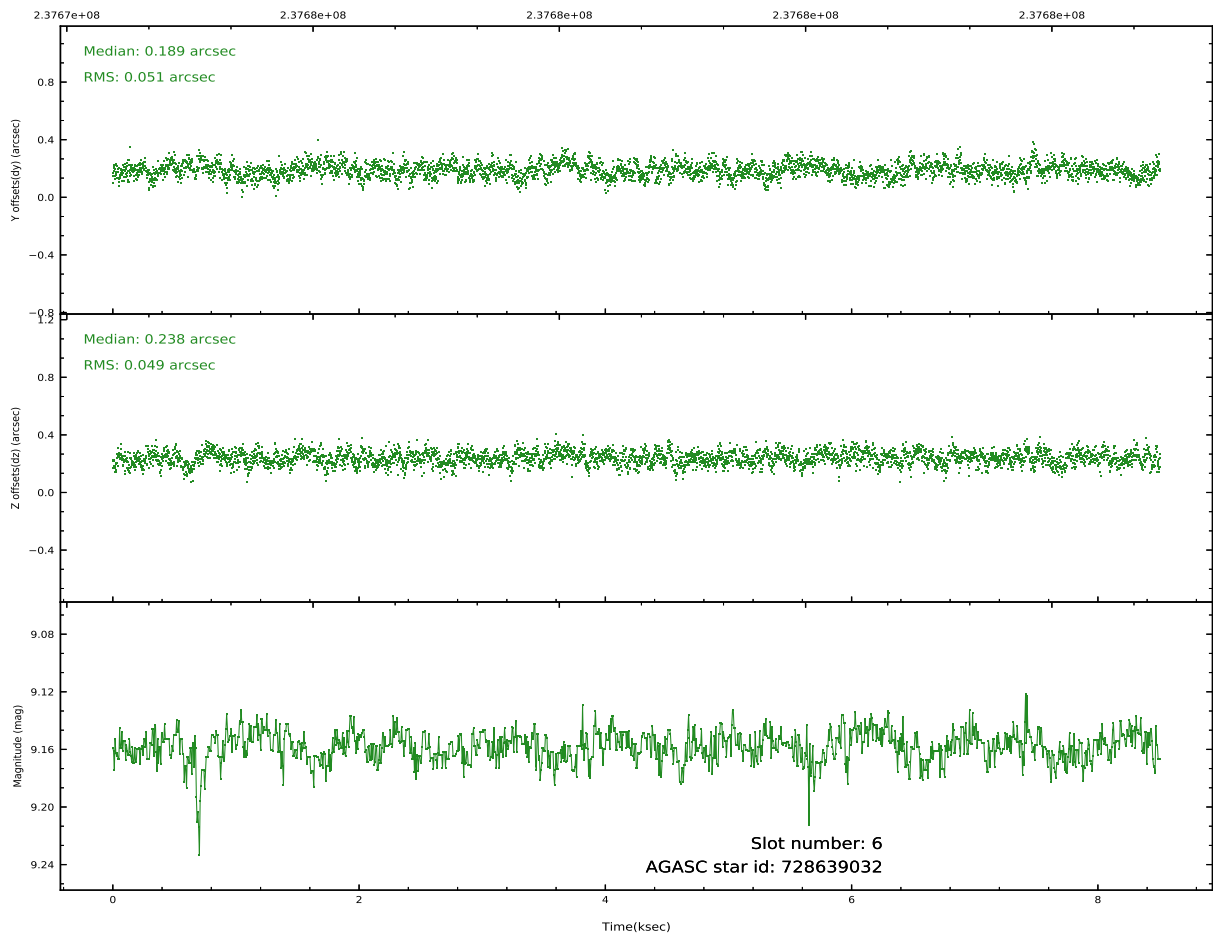
Time (s)



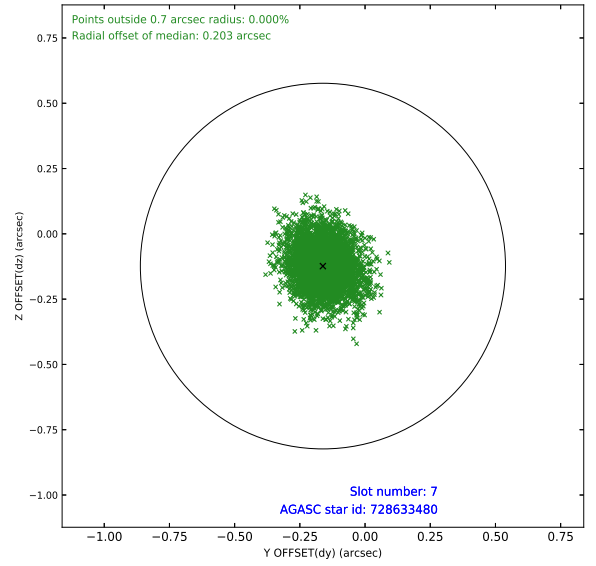
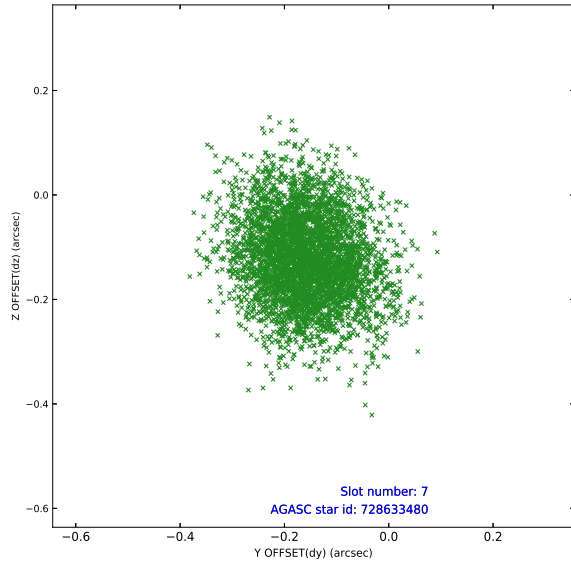
2.4.4 Slot 6



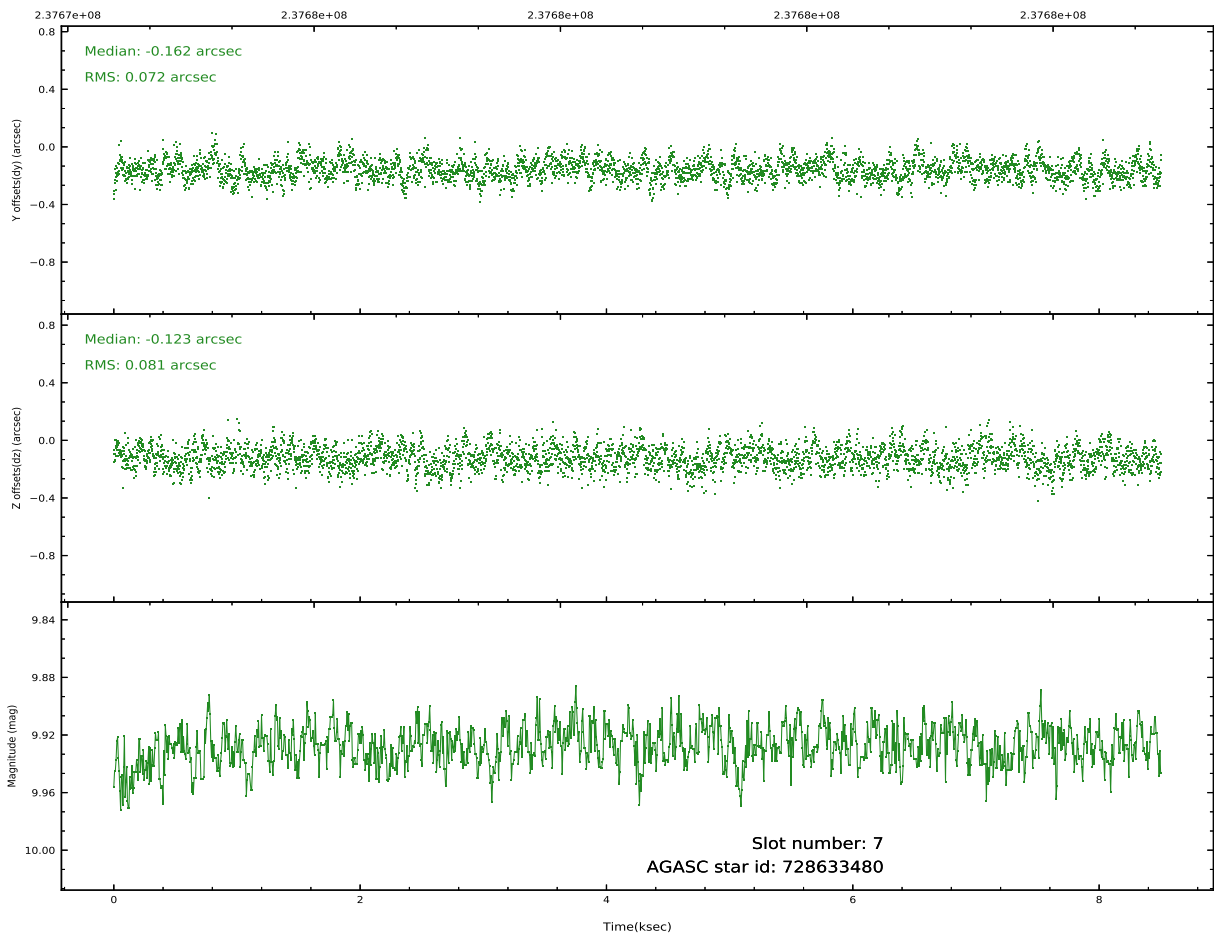
Time (s)



2.4.5 Slot 7

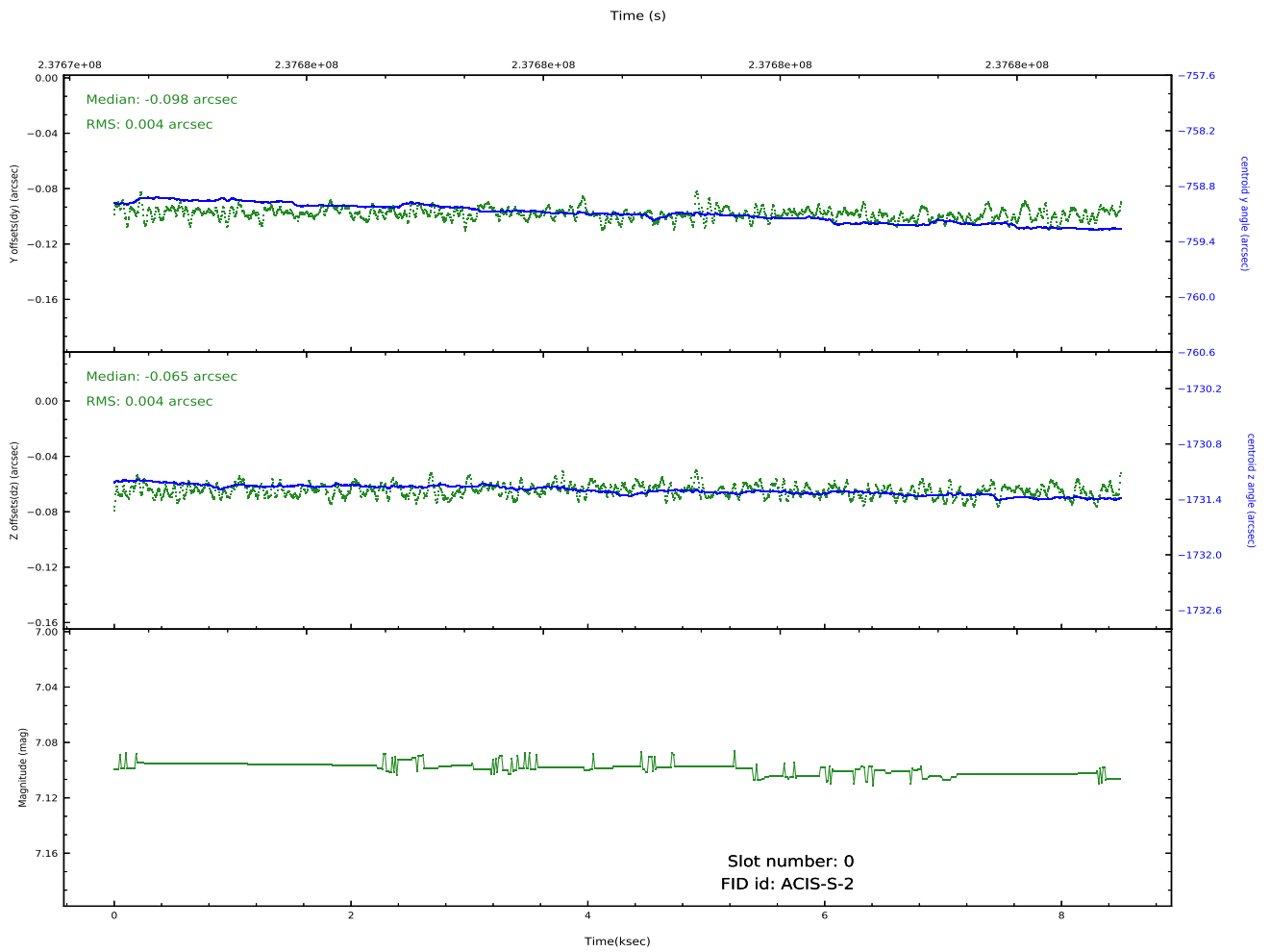
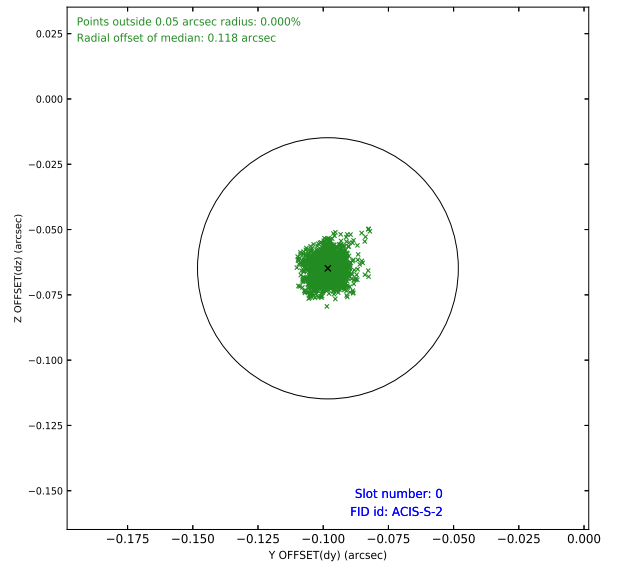
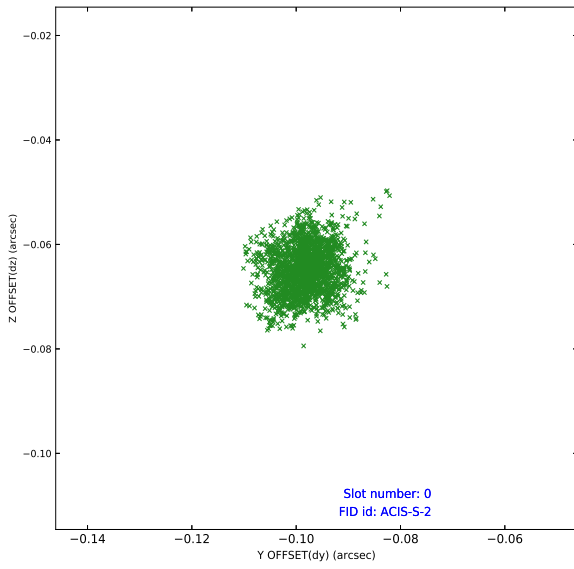


Time (s)

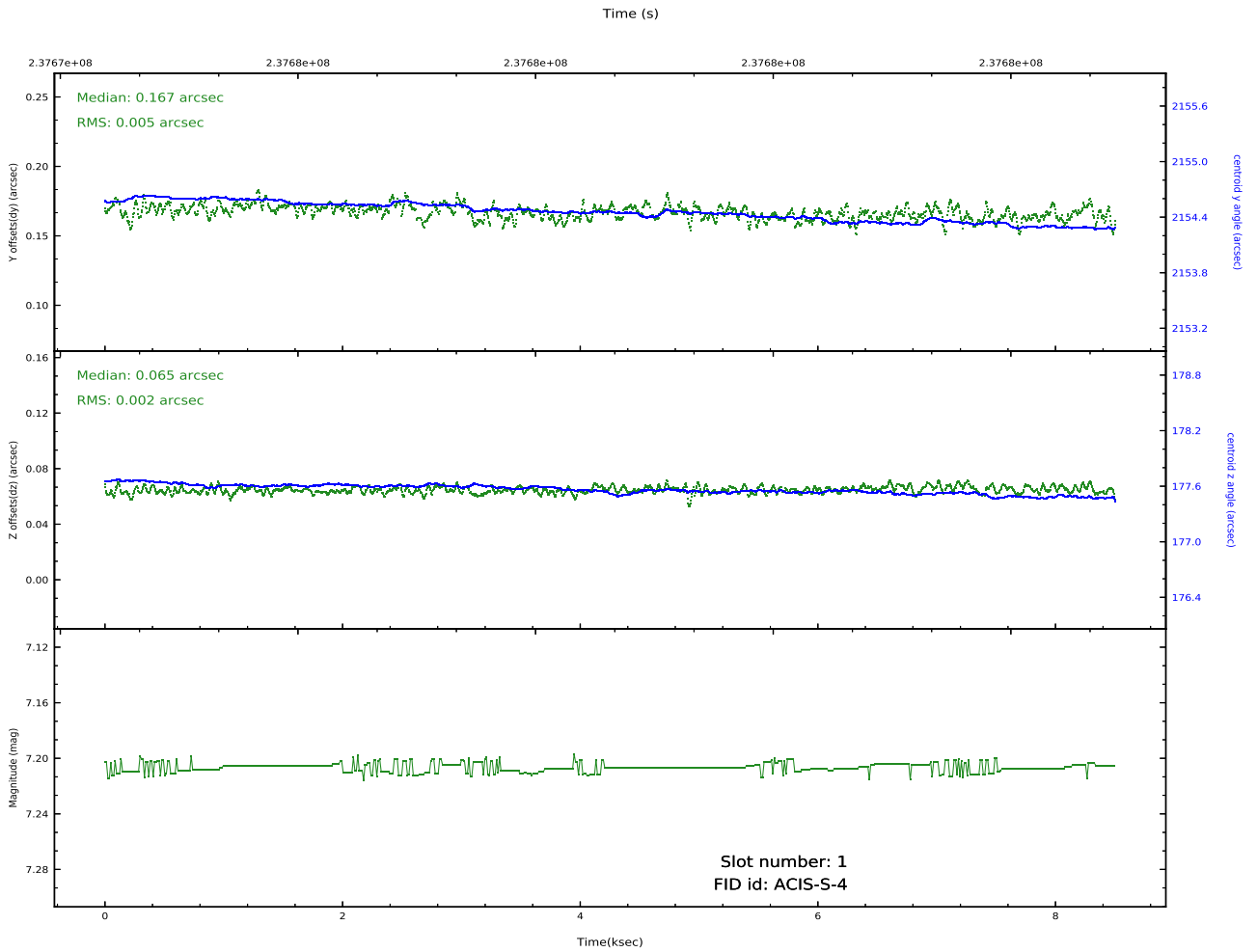
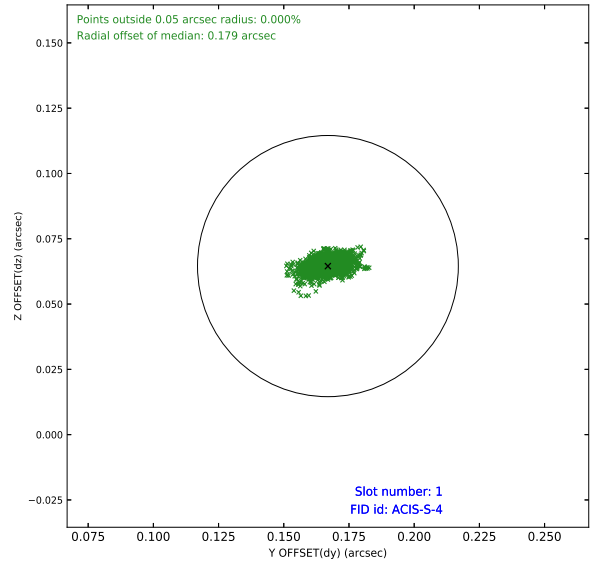
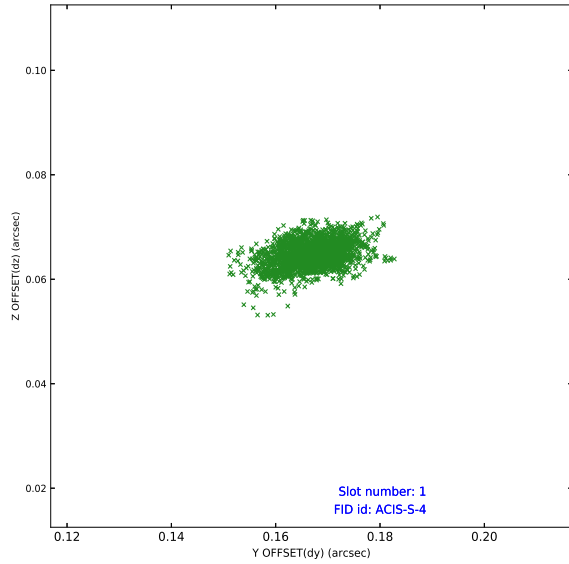


2.5 FID Slots

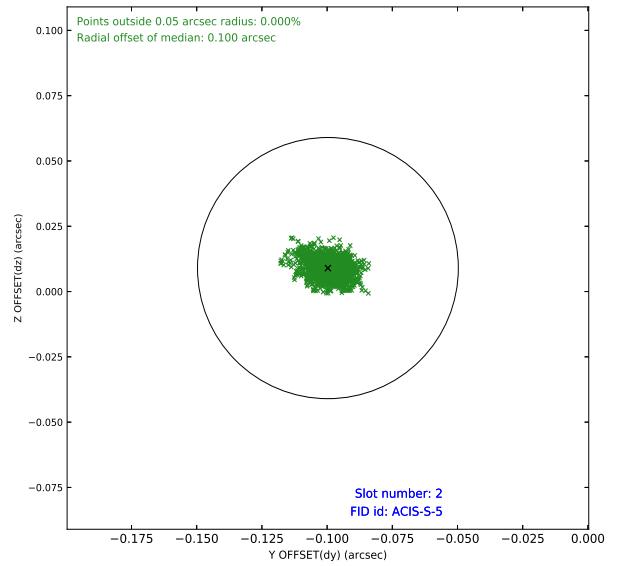
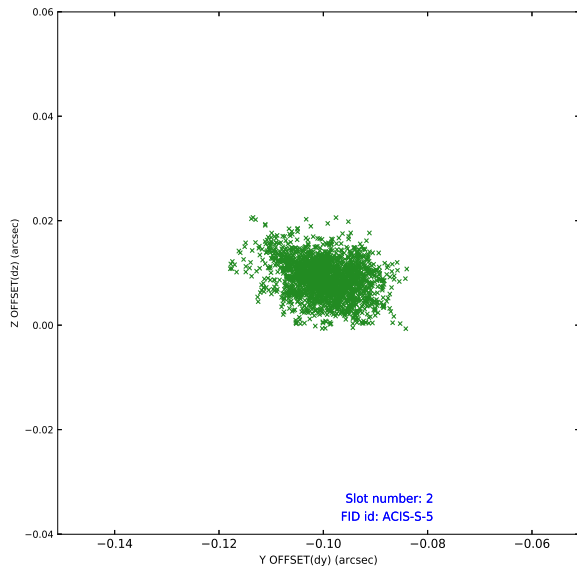
2.5.1 Slot 0



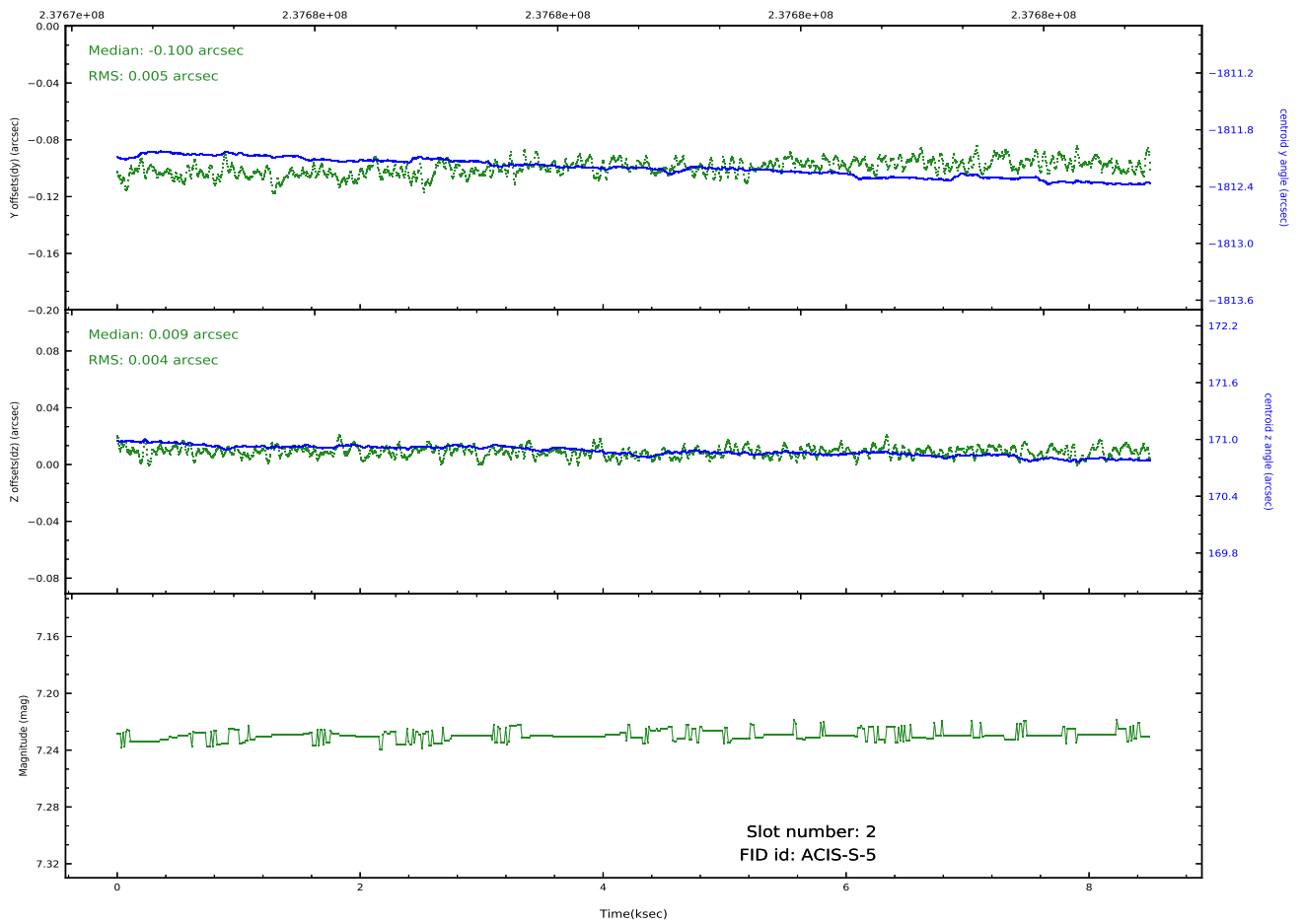
2.5.2 Slot 1



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.502399

A.2 Comments

This is an observation of a moving target. Users will need to run `sso_freeze` or similar software to position the events in the reference frame of the target.

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Window constraint was not met.