

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 7060 - L2 Version 3
Chandra X-Ray Center

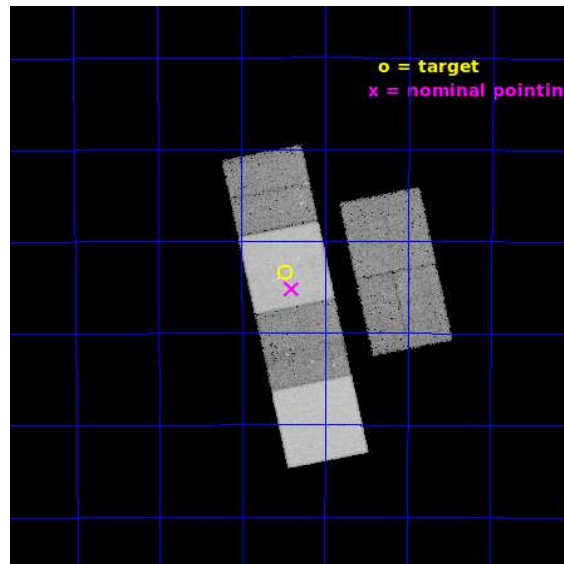
L2 Processing Date : Oct 12 2020

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1 Front

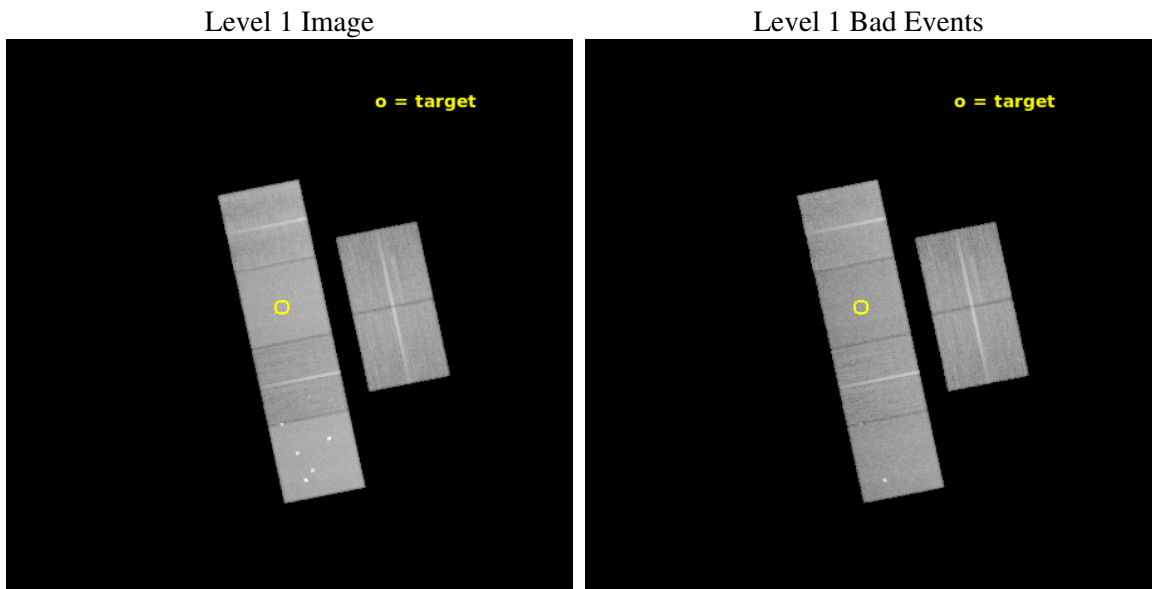
seq_num	600498	Sequence number
obs_id	7060	Observation id
title	Extraplanar Hot Gas and Radio Galactic Halos	Proposal title
observer	Daniel Wang	Principal investigator
object	NGC 7090	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	324.119167	Observer's specified target RA [deg]
dec_targ	-54.55675	Observer's specified target Dec [deg]
ra_nom	324.099053401	Nominal RA [deg]
dec_nom	-54.586555158305	Nominal Dec [deg]
roll_nom	258.2410896151	Nominal Roll [deg]
revision	3	Processing version of data
ontime	26412.799901605	Sum of GTIs [s]
livetime	26078.345125372	Livetime [s]
ontime2	26409.558931321	Sum of GTIs [s]
ontime3	26412.799901605	Sum of GTIs [s]
ontime5	26412.799901605	Sum of GTIs [s]
ontime6	26412.799901605	Sum of GTIs [s]
ontime7	26412.799901605	Sum of GTIs [s]
ontime8	26409.559060842	Sum of GTIs [s]
l2events	343275	Number of level 2 events



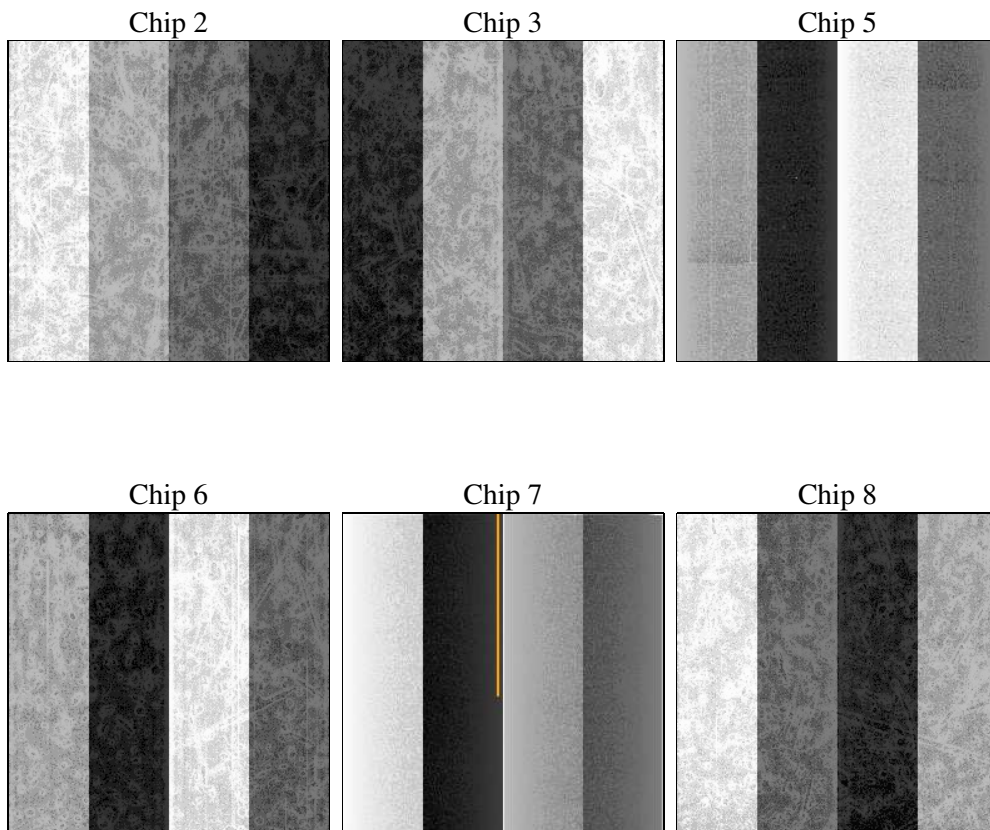
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	26455.884000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	26412.799901605	Sum of GTIs [s]
caldbver	4.9.2	 	ontime2	26409.558931321	Sum of GTIs [s]
date	2020-10-12T05:48:18	Date and time of file creation	ontime3	26412.799901605	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	26412.799901605	Sum of GTIs [s]
			ontime6	26412.799901605	Sum of GTIs [s]
			ontime7	26412.799901605	Sum of GTIs [s]
			ontime8	26409.559060842	Sum of GTIs [s]
			l1events	1534977	Number of level 1 events

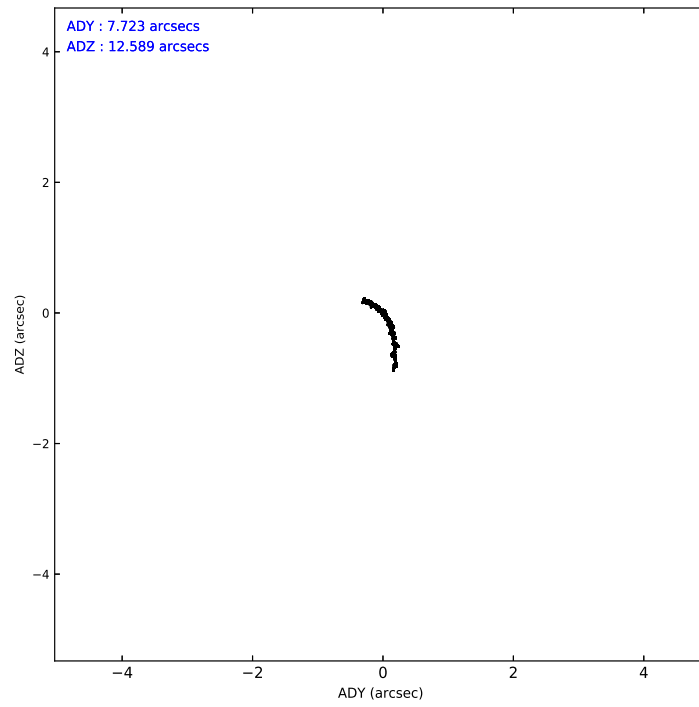
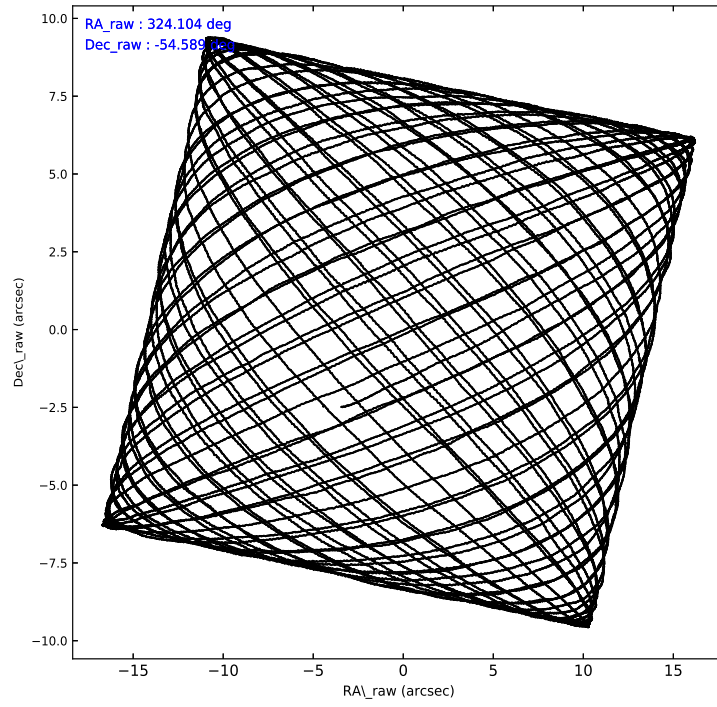
2.1.4 Events

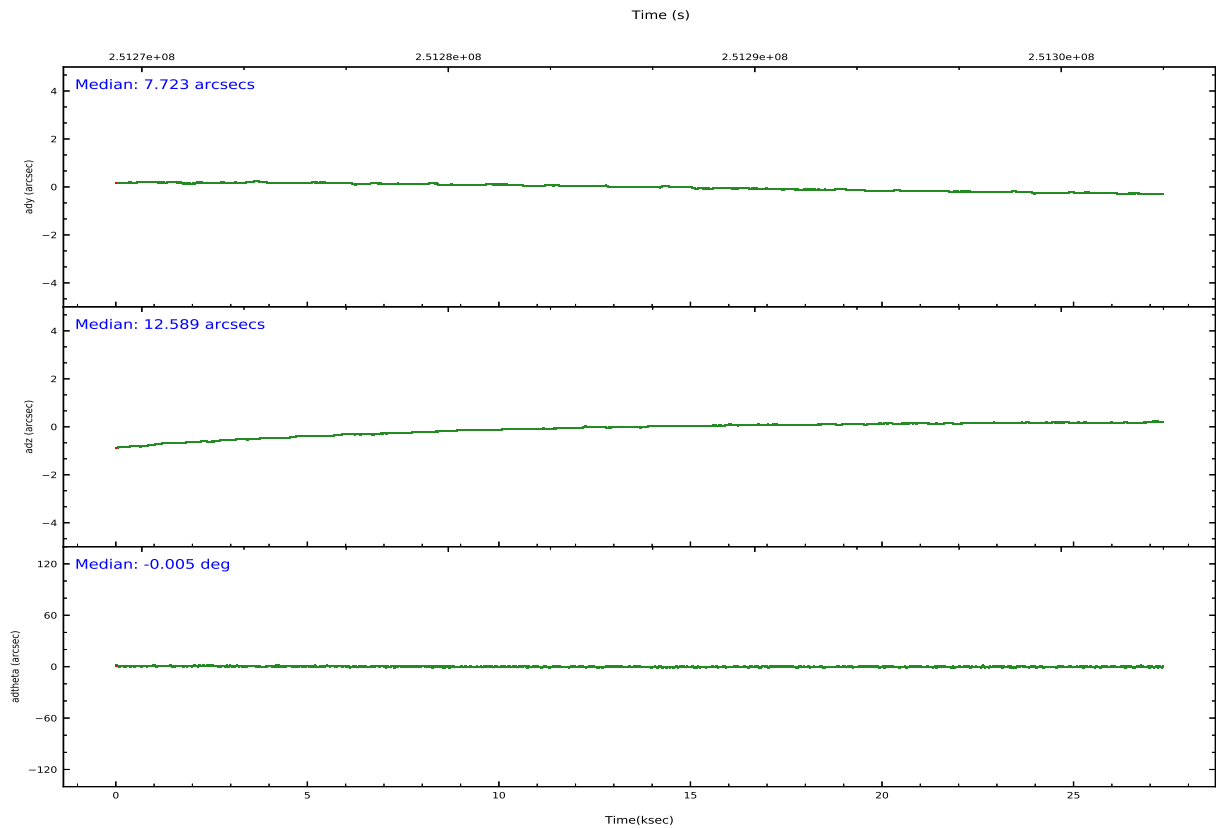
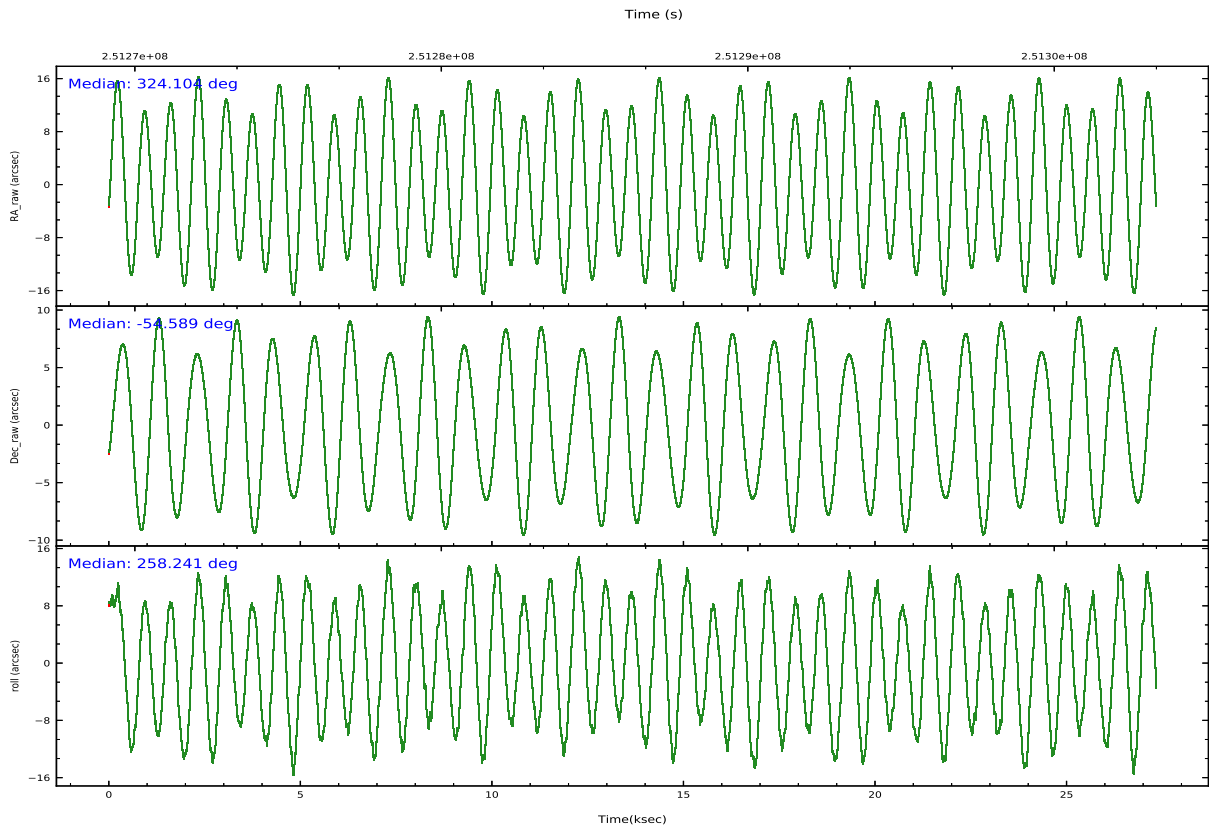
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	220149	206796	337301	210525	290601	269605	grade 0 events	11019	10699	26484	10228	11092	18557
rejected events	195376	182211	175846	184811	169382	210203		5%	5%	7%	4%	3%	6%
rejected %	88%	88%	52%	87%	58%	77%	grade 1 events	138	129	587	101	262	189
								0%	0%	0%	0%	0%	0%
							grade 2 events	5038	4739	45813	5381	24138	13144
								2%	2%	13%	2%	8%	4%
							grade 3 events	2264	2381	5745	2441	10735	6235
								1%	1%	1%	1%	3%	2%
							grade 4 events	2295	2406	5501	2486	10479	5805
								1%	1%	1%	1%	3%	2%
							grade 5 events	8105	9528	23389	9781	27551	12854
								3%	4%	6%	4%	9%	4%
							grade 6 events	4157	4364	77927	5182	64788	15670
								1%	2%	23%	2%	22%	5%
							grade 7 events	187133	172550	151855	174925	141556	197151
								85%	83%	45%	83%	48%	73%

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	324.088988	324.099053401	Subarray requested	NONE	NONE
[deg] Pointing Dec	-54.563793	-54.586555158305	Alternating exposures requested	N	N
[deg] Pointing Roll	258.074449	258.2410896151	[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	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	251272203.184000	251270894.59836			
Observation start date	2005-12-18T05:48:59	2005-12-18T05:28:14			
[s] Observation end time (MET)	251298659.184000	251298880.68716			
Observation end date	2005-12-18T13:09:55	2005-12-18T13:14:40			
Read mode	TIMED	TIMED			

2.3 Aspect



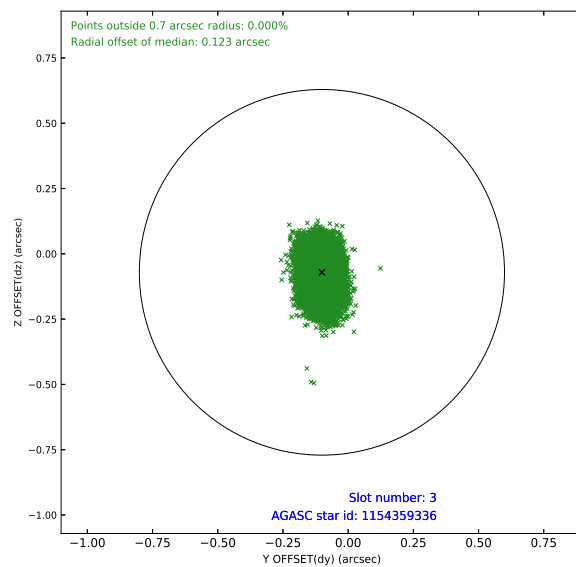
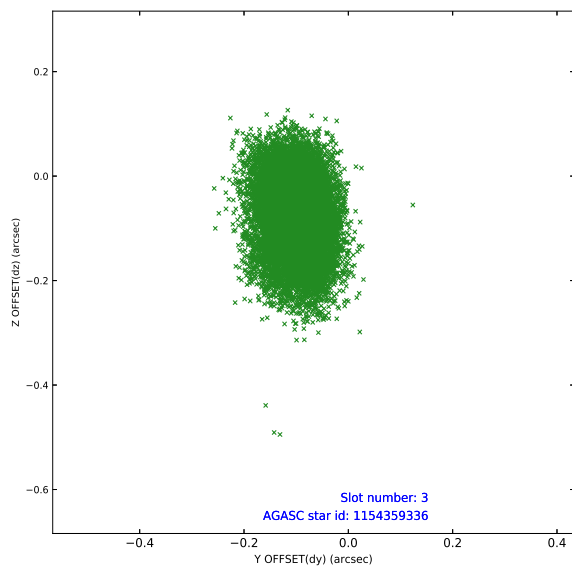


Slot Statistics

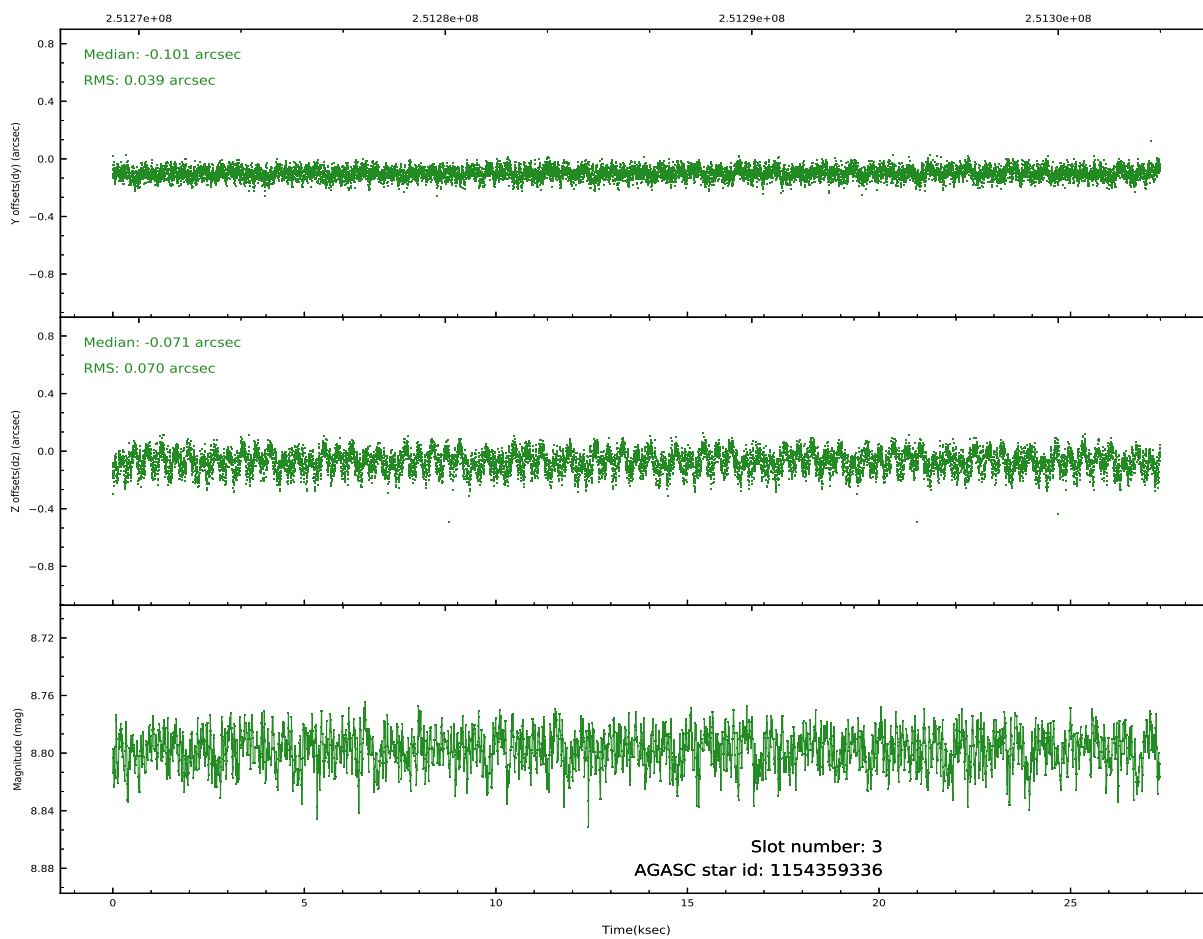
slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-S-1	7.19	6668	1.000	0.064	-0.067	0.014	0.030	0.000000	0.000000	935.61	-1729
1	FID		ACIS-S-2	7.10	6667	1.000	-0.070	-0.020	0.006	0.011	0.000000	0.000000	-760.37	-1734
2	FID		ACIS-S-6	7.35	6669	1.000	-0.013	0.091	0.015	0.031	0.000000	0.000000	401.16	811
3	GUIDE	used	1154359336	8.80	13329	1.000	-0.101	-0.071	0.085	0.140	323.363639	-54.155120	-1115.25	-1798
4	GUIDE	used	1154878360	9.04	13329	1.000	-0.000	-0.024	0.077	0.124	323.774719	-54.584360	209.91	-625
5	GUIDE	used	1154879464	8.72	13284	1.000	0.020	0.149	0.089	0.139	324.750957	-54.864580	782.65	1567
6	GUIDE	used	1154879520	9.34	13327	1.000	0.064	0.086	0.109	0.177	324.072340	-54.431264	-458.92	-132
7	GUIDE	used	1154882736	9.43	13331	1.000	0.019	-0.135	0.150	0.217	324.261985	-54.475323	-385.57	288

2.4 Star Slots

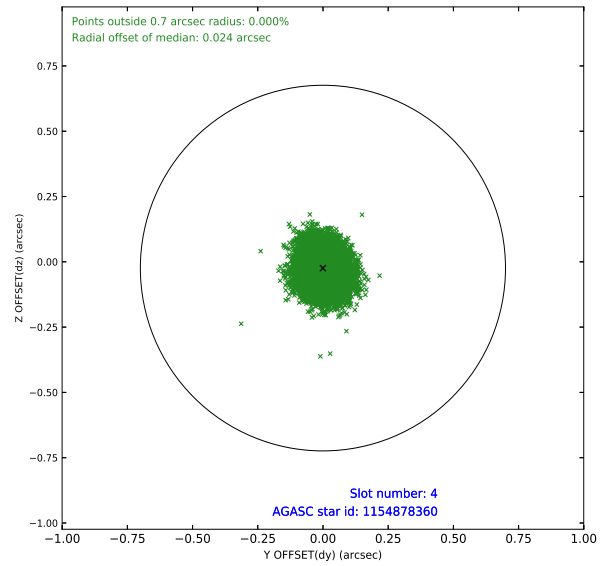
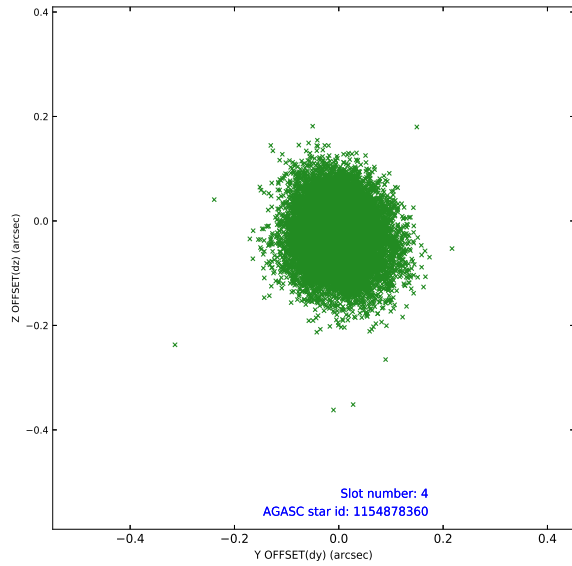
2.4.1 Slot 3



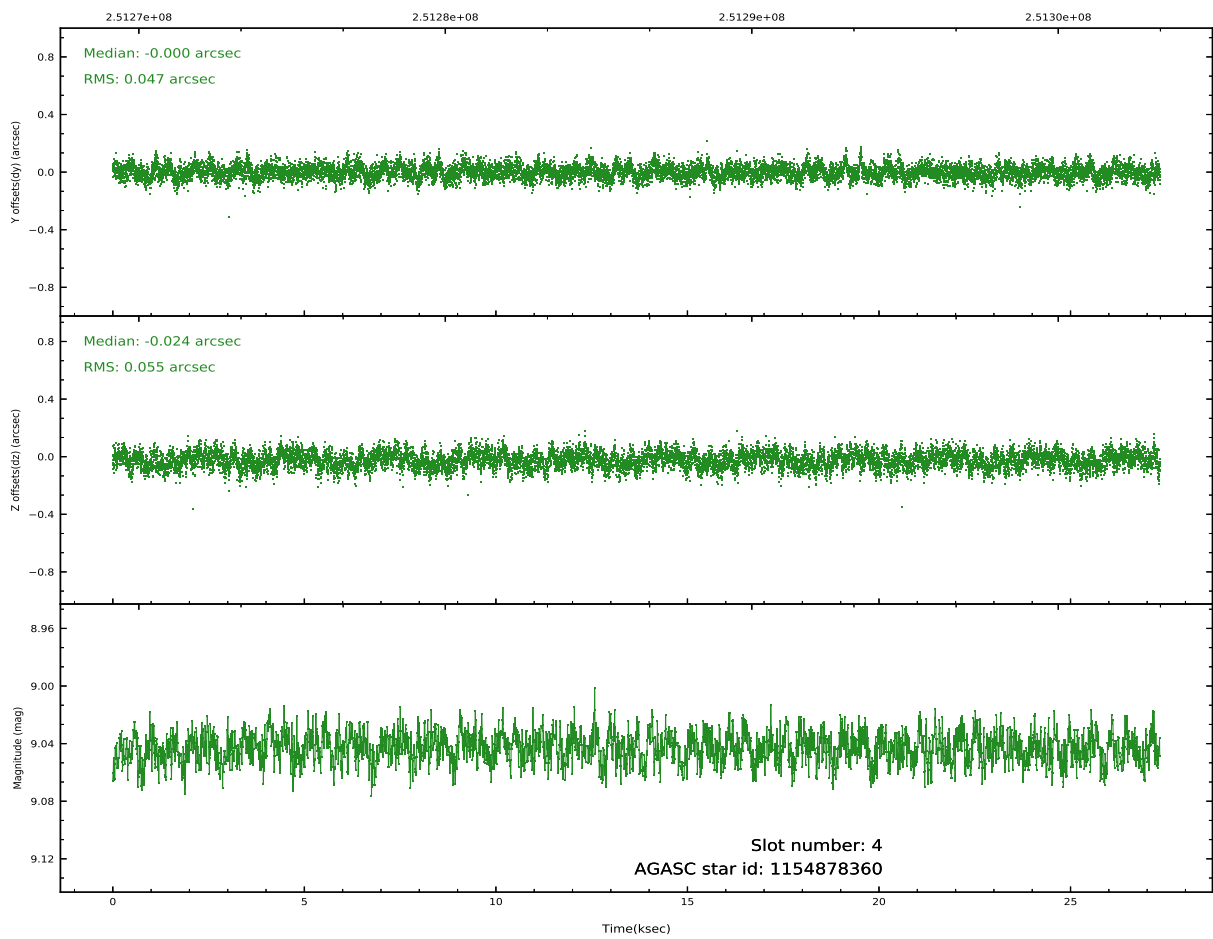
Time (s)



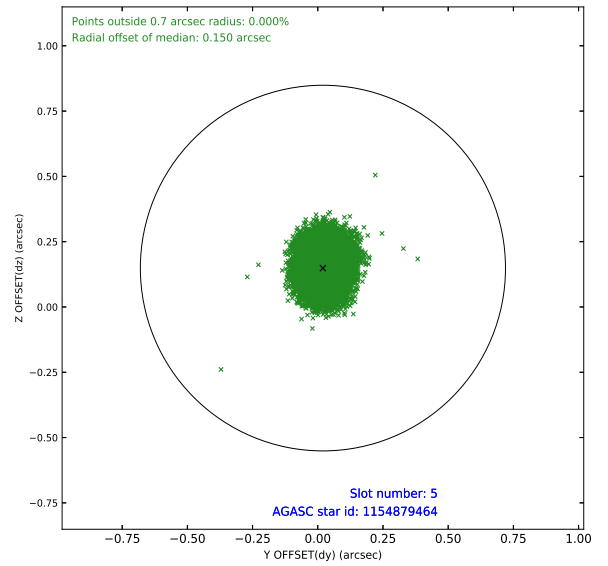
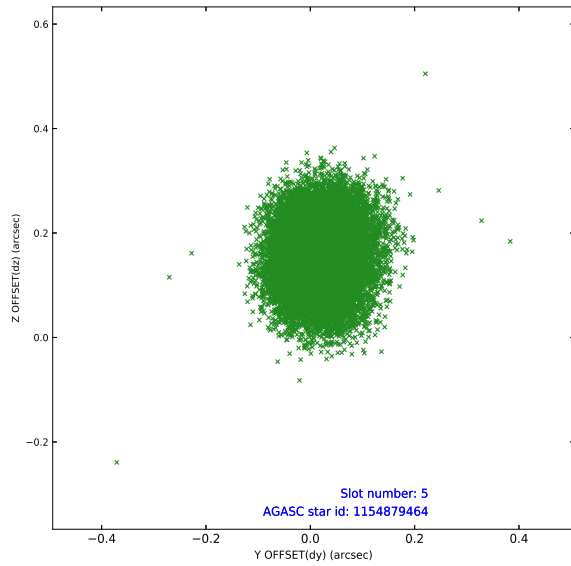
2.4.2 Slot 4



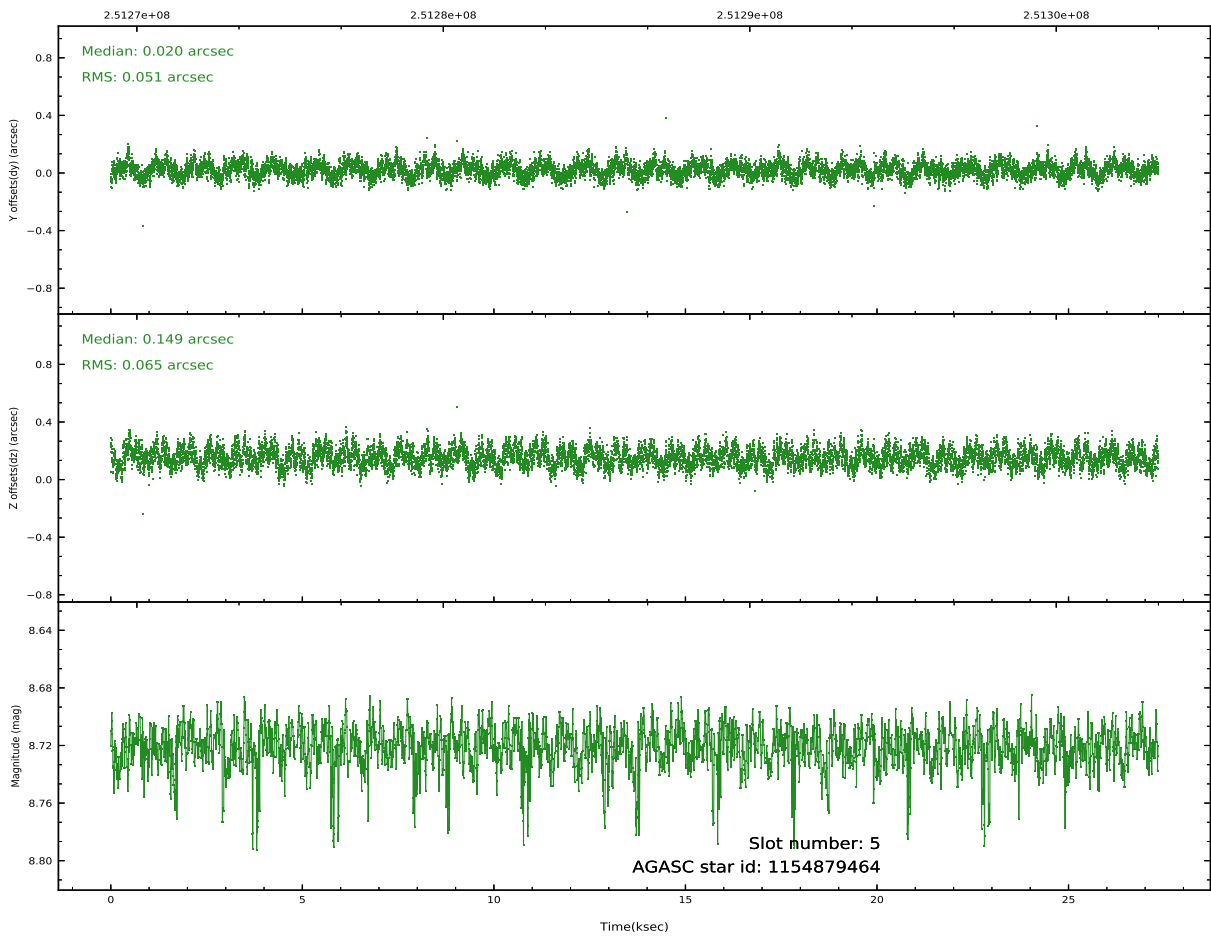
Time (s)



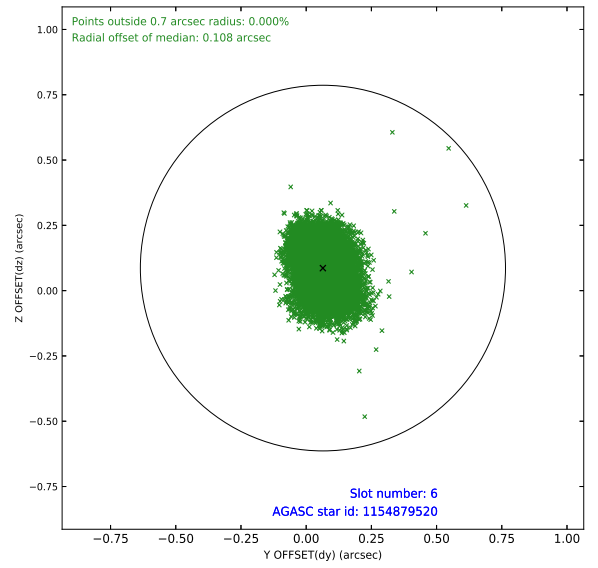
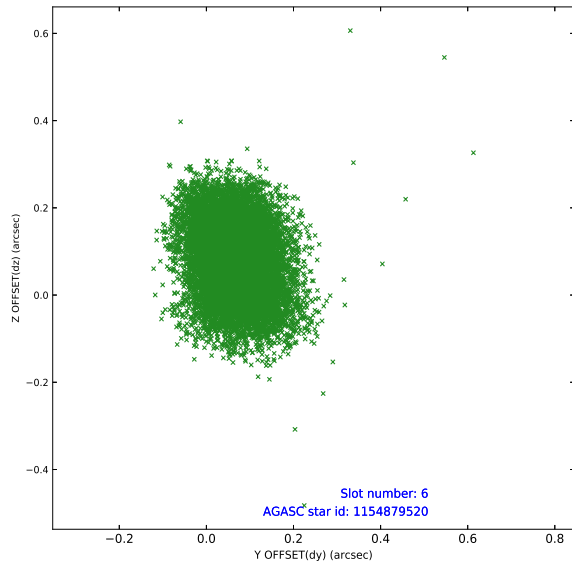
2.4.3 Slot 5



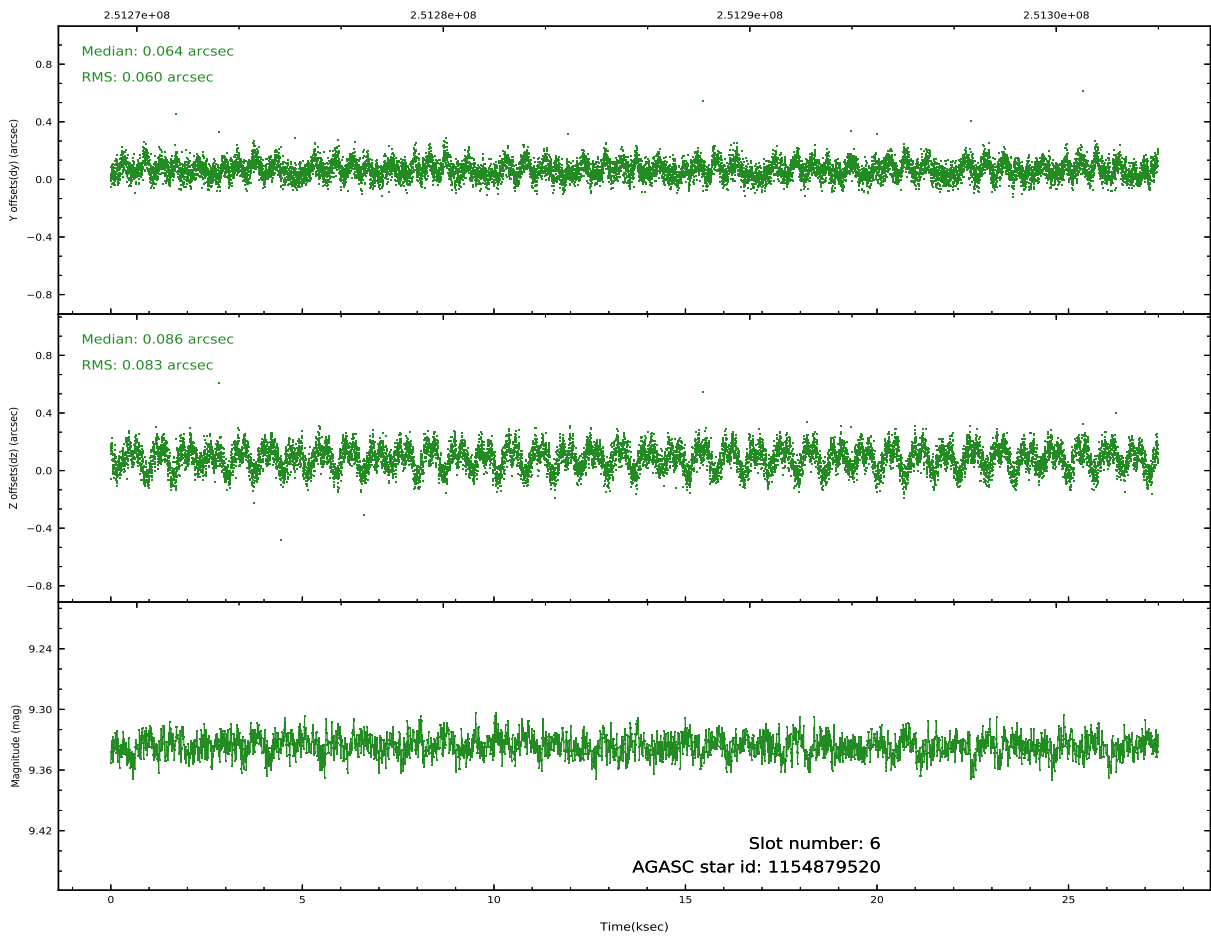
Time (s)



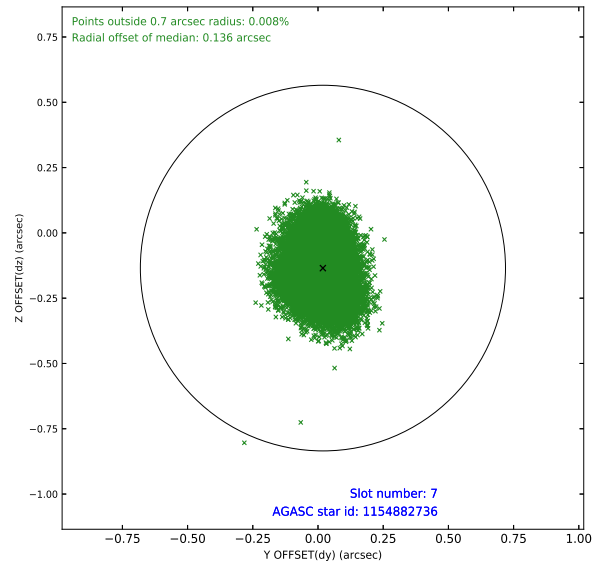
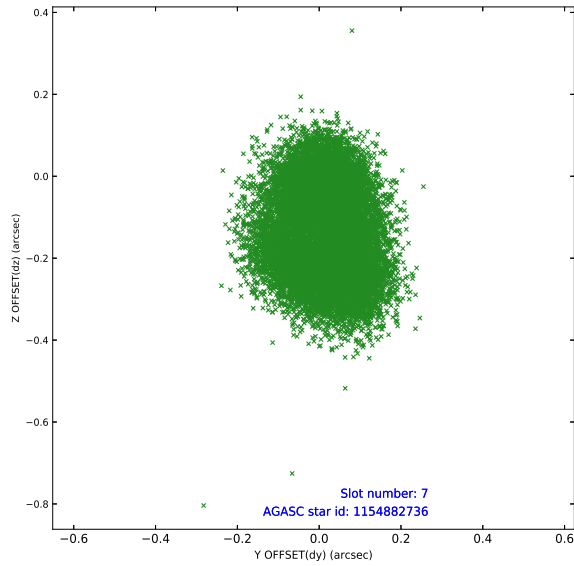
2.4.4 Slot 6



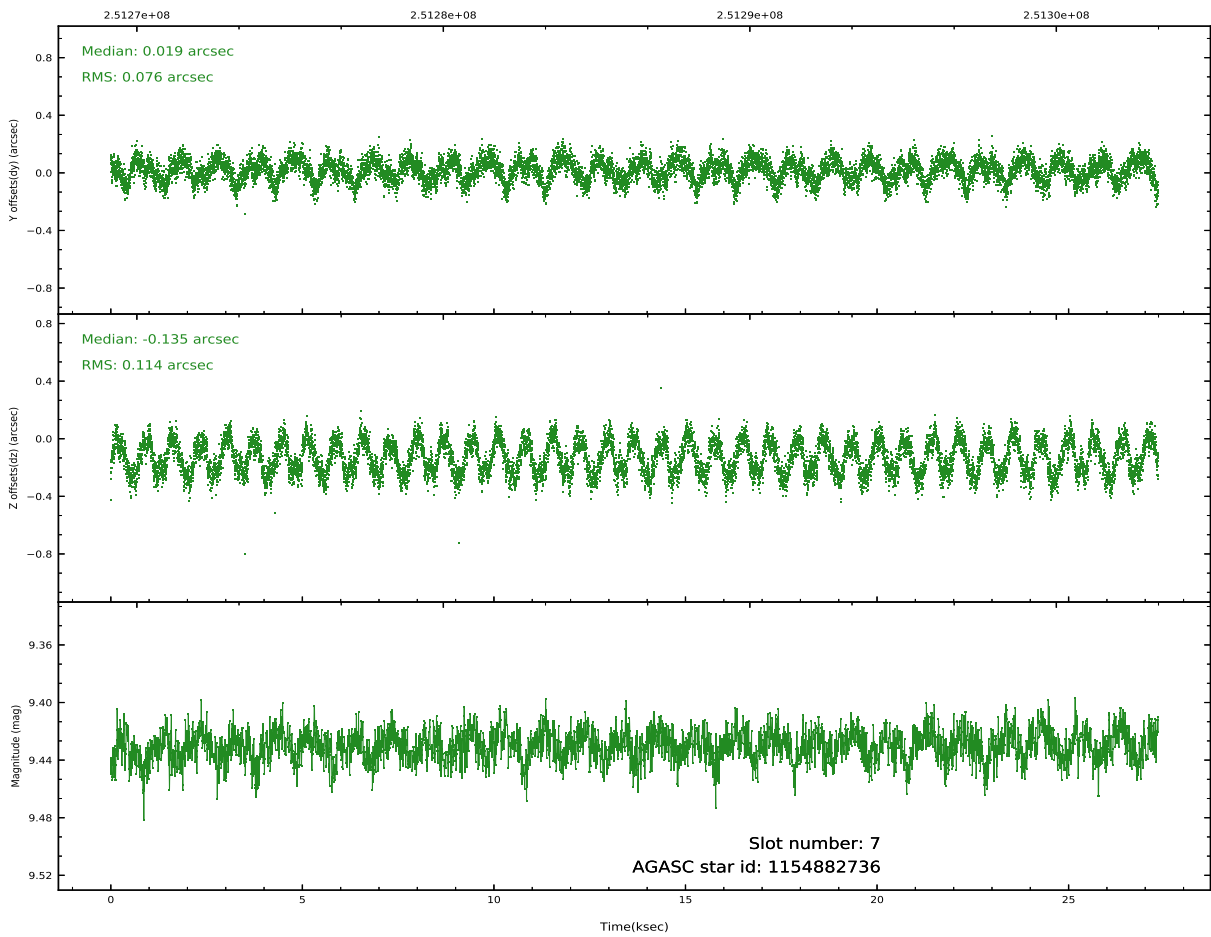
Time (s)



2.4.5 Slot 7

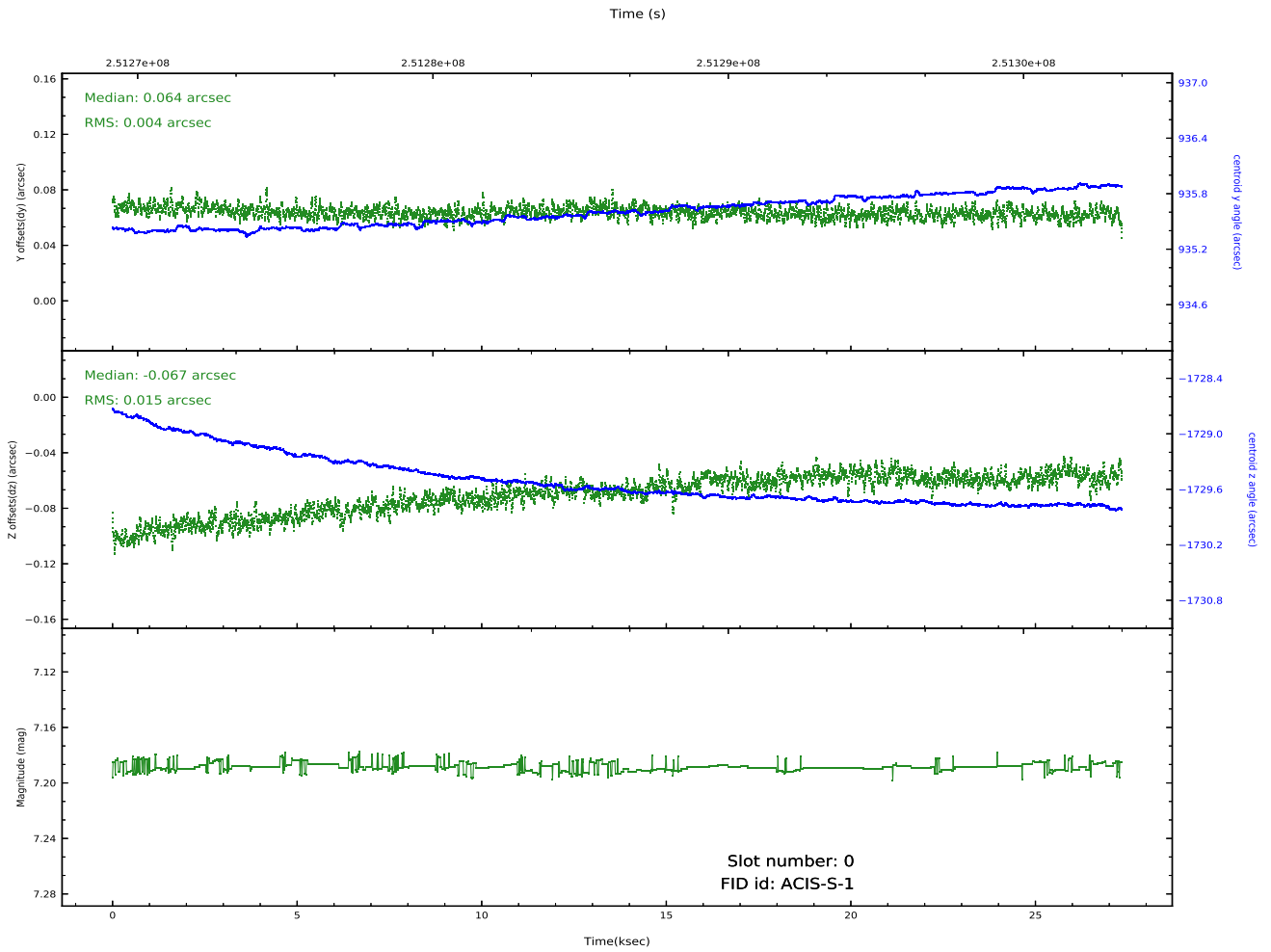
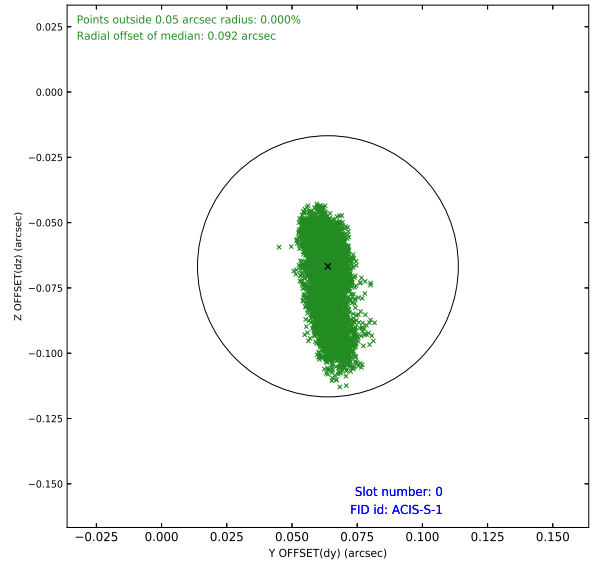
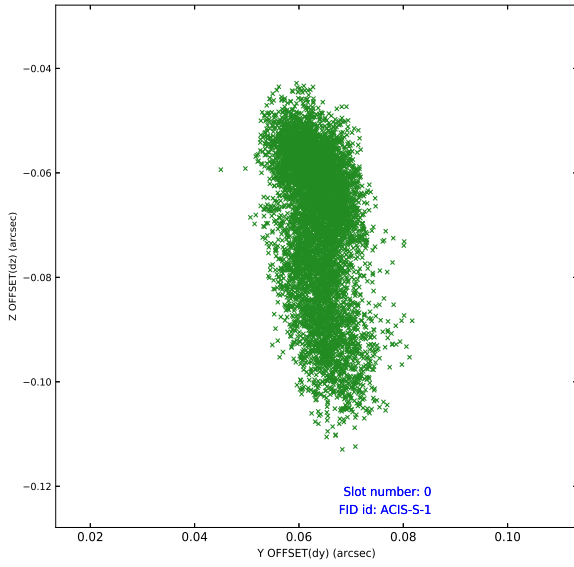


Time (s)

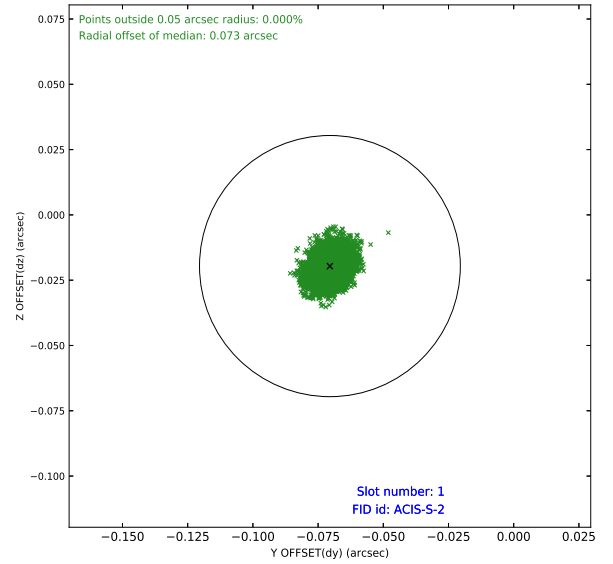
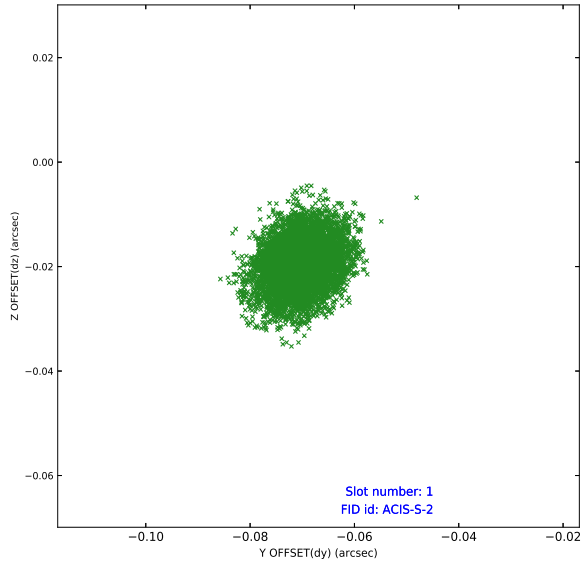


2.5 FID Slots

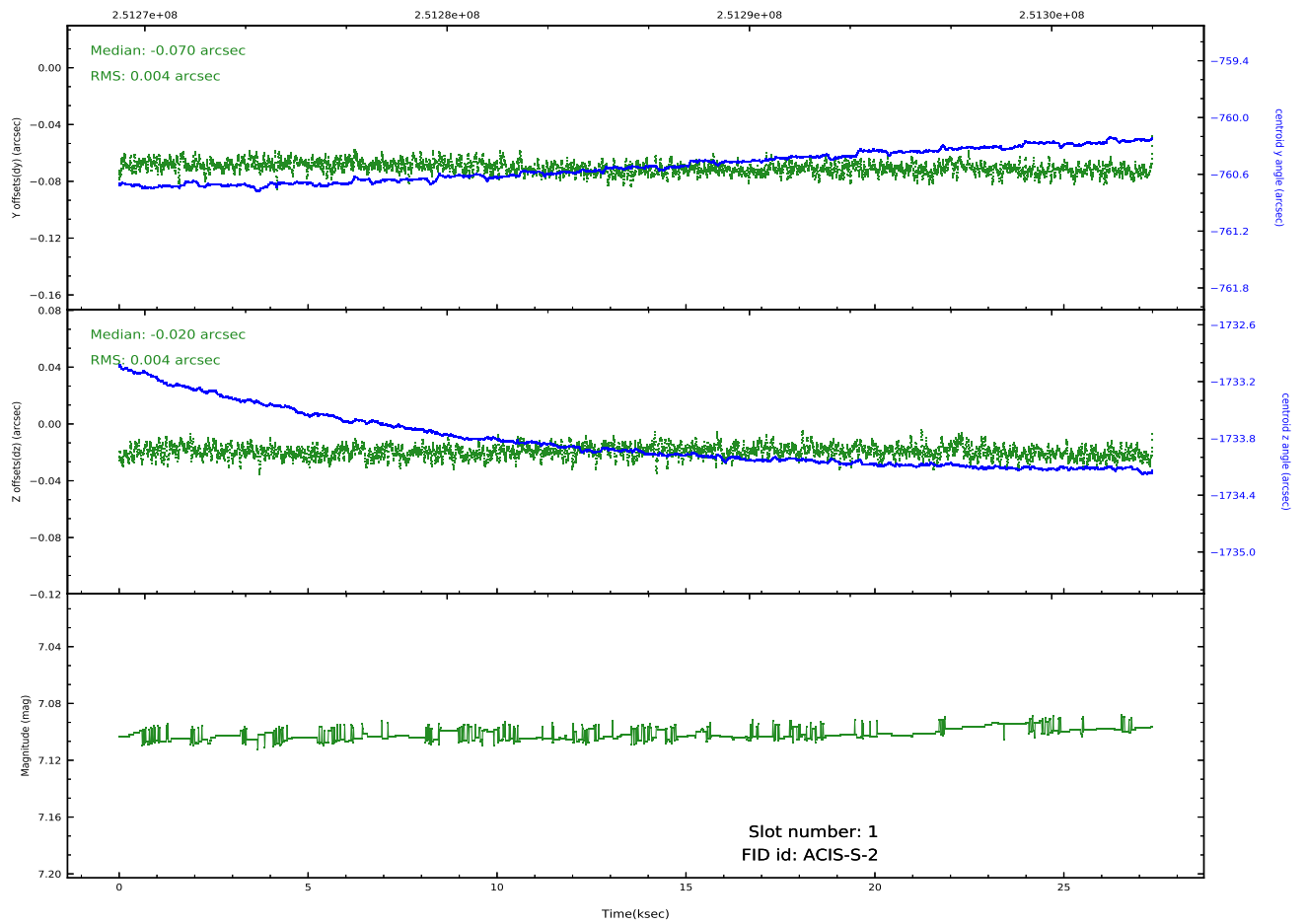
2.5.1 Slot 0



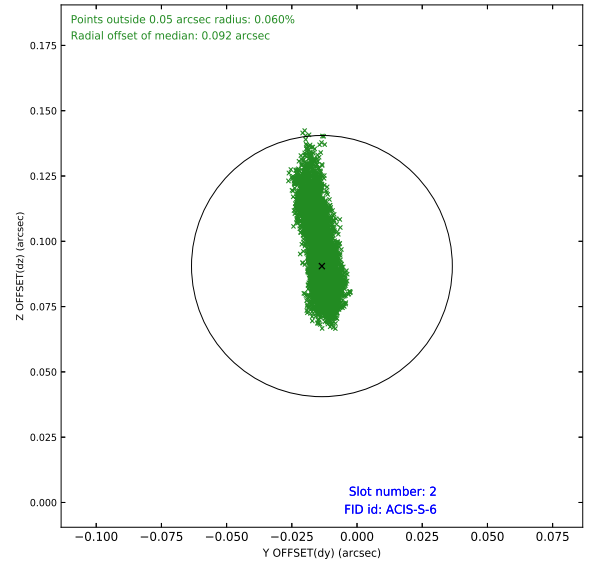
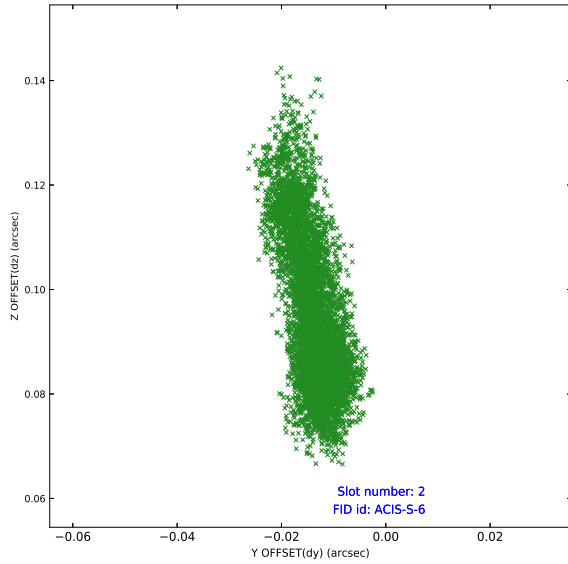
2.5.2 Slot 1



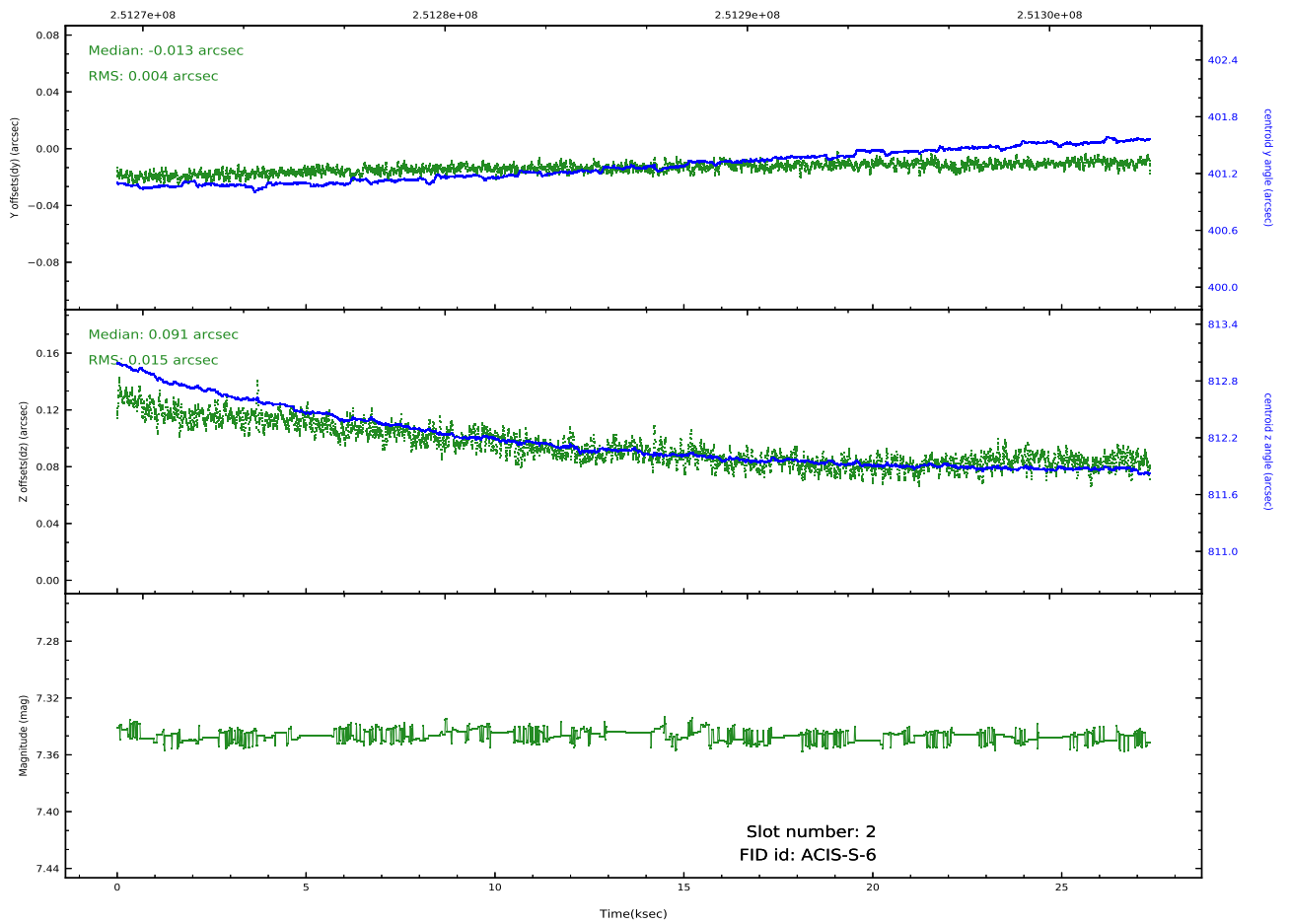
Time (s)



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Francesca Civano
V&V Date (YYYY-MM-DD)	2020.10.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	26.41279

A.2 Comments