

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20482 - L2 Version 2
Chandra X-Ray Center

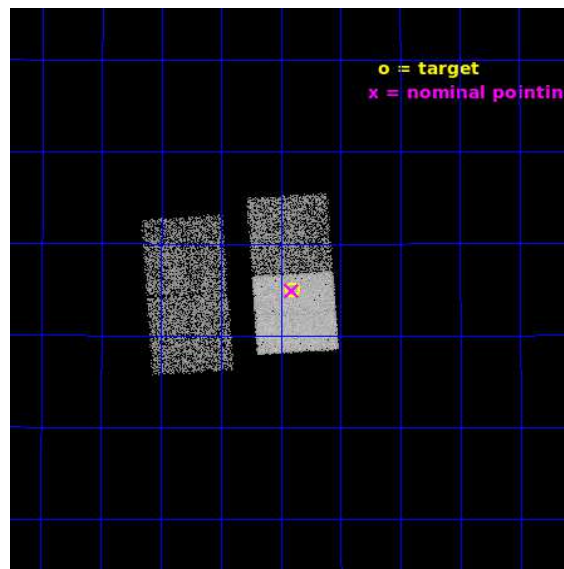
L2 Processing Date : Oct 24 2020

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

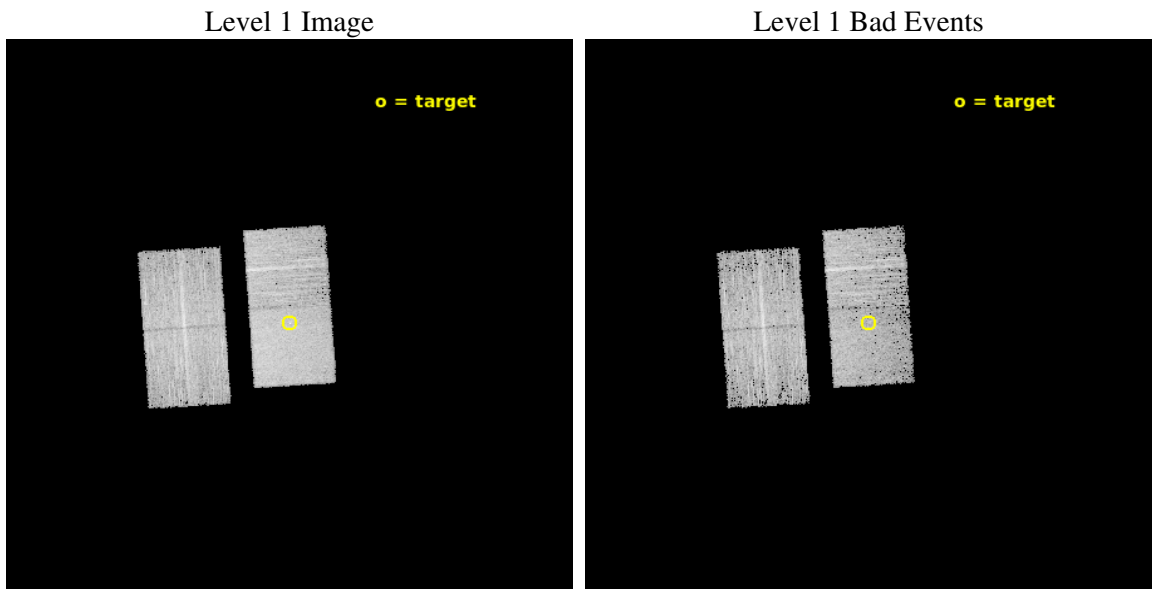
seq_num	703585	Sequence number
obs_id	20482	Observation id
title	Young Radio Sources at High Redshift	Proposal title
observer	Aneta Siemiginowska	Principal investigator
object	SDSS J154824.01+333500.1	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	237.1	Observer's specified target RA [deg]
dec_targ	33.583361	Observer's specified target Dec [deg]
ra_nom	237.10177168893	Nominal RA [deg]
dec_nom	33.581759065345	Nominal Dec [deg]
roll_nom	86.153178075991	Nominal Roll [deg]
revision	2	Processing version of data
ontime	6193.8000477552	Sum of GTIs [s]
livetime	6112.8734903221	Livetime [s]
ontime2	6193.8000477552	Sum of GTIs [s]
ontime3	6193.8000477552	Sum of GTIs [s]
ontime6	6193.8000477552	Sum of GTIs [s]
ontime7	6193.8000477552	Sum of GTIs [s]
l2events	36871	Number of level 2 events



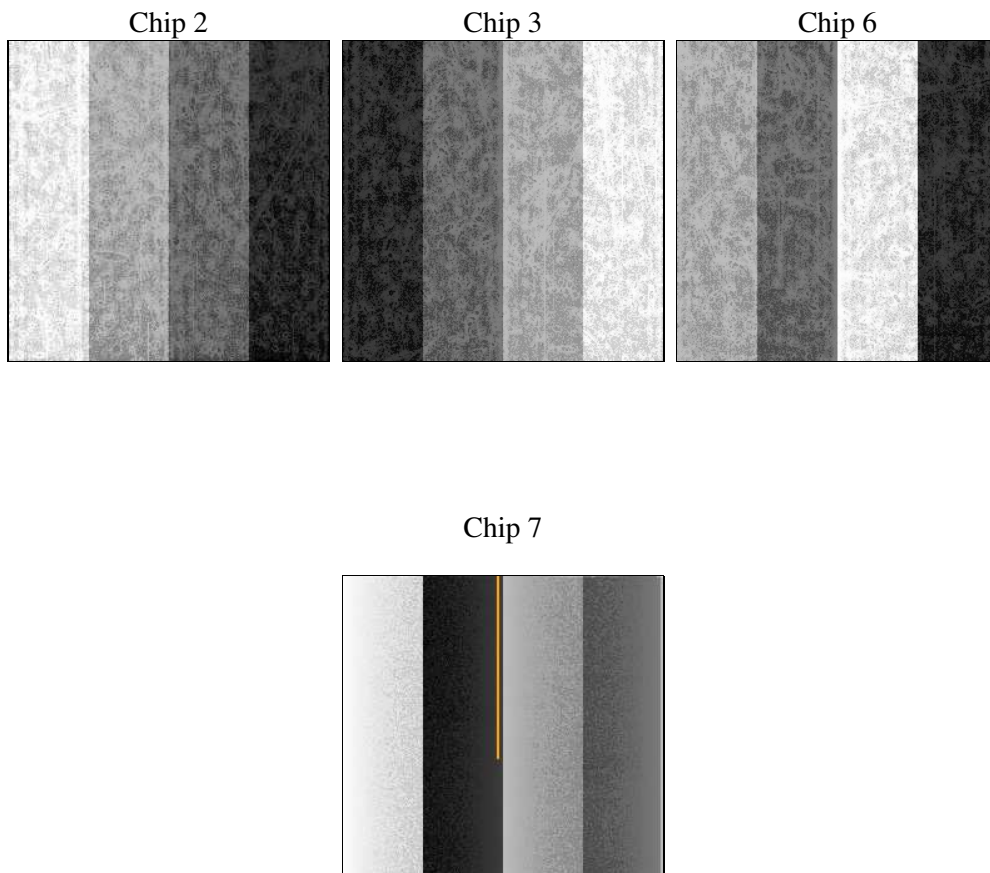
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	6126.878000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	6193.8000477552	Sum of GTIs [s]
caldsver	4.9.3	 	ontime2	6193.8000477552	Sum of GTIs [s]
date	2020-10-24T16:13:10	Date and time of file creation	ontime3	6193.8000477552	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	6193.8000477552	Sum of GTIs [s]
			ontime7	6193.8000477552	Sum of GTIs [s]
			l1events	197065	Number of level 1 events

2.1.4 Events

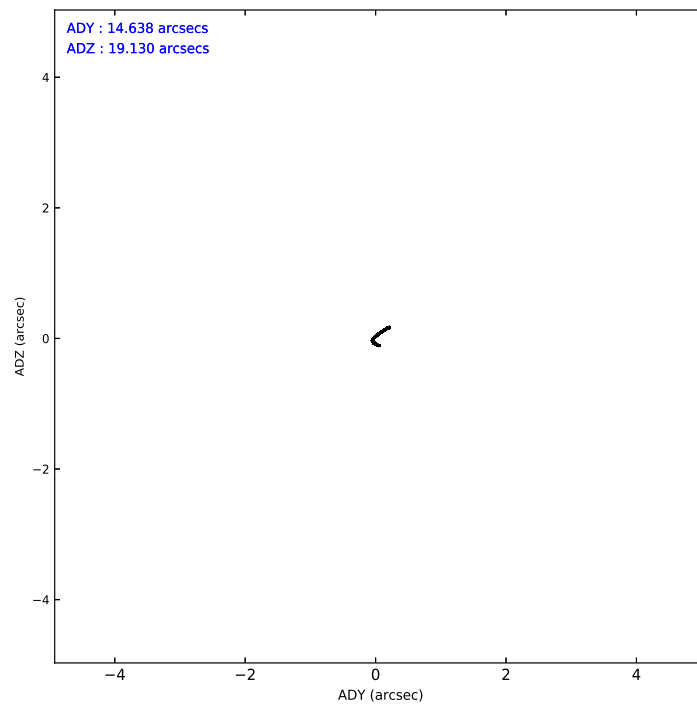
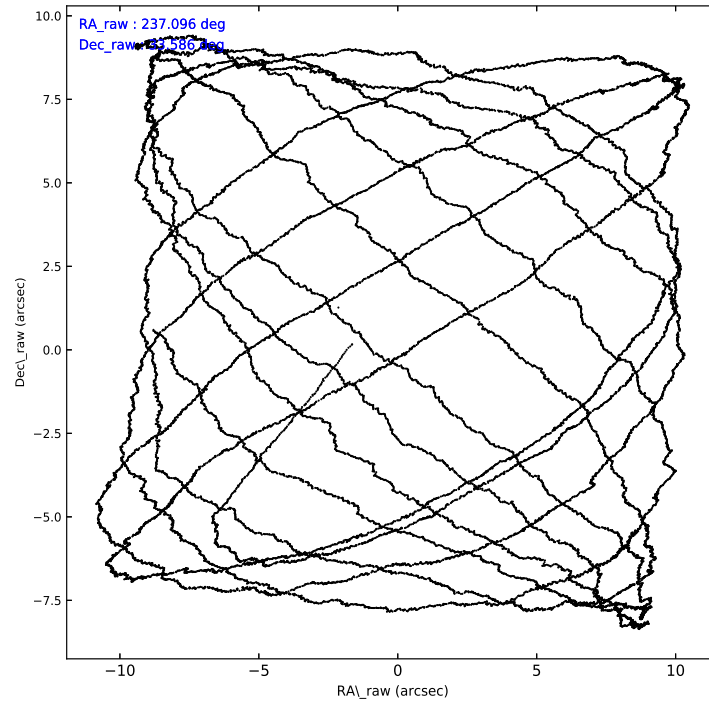
	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	45262	46072	46762	58969
rejected events	40504	41491	41623	33662
rejected %	89%	90%	89%	57%

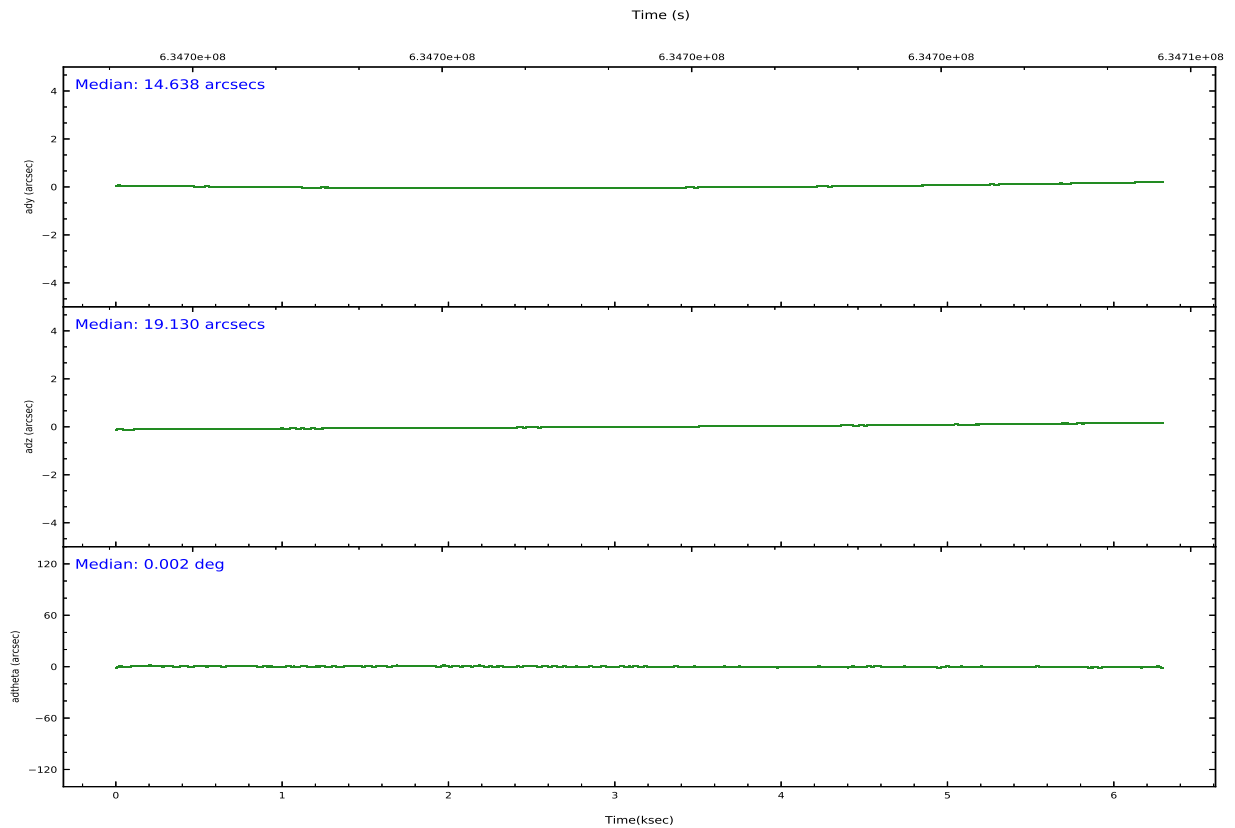
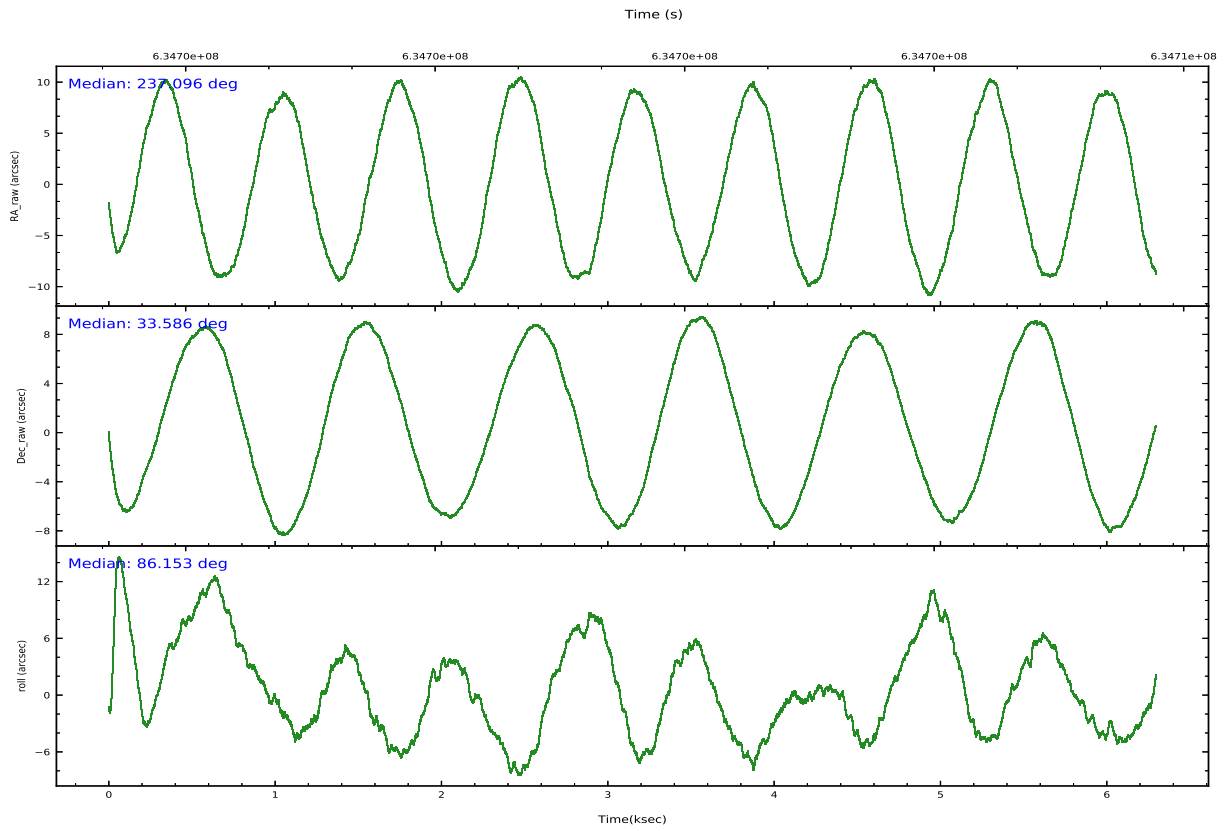
	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	1689	1550	1640	2109
	3%	3%	3%	3%
grade 1 events	30	27	33	90
	0%	0%	0%	0%
grade 2 events	1127	1050	1289	5185
	2%	2%	2%	8%
grade 3 events	490	486	495	2012
	1%	1%	1%	3%
grade 4 events	514	488	468	2051
	1%	1%	1%	3%
grade 5 events	1677	2052	2078	5681
	3%	4%	4%	9%
grade 6 events	944	1014	1254	13968
	2%	2%	2%	23%
grade 7 events	38791	39405	39505	27873
	85%	85%	84%	47%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-2367	ACIS-2367	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	237.110490	237.10177168893	CCD I2 on	O1	Y
[deg] Pointing Dec	33.561993	33.581759065345	CCD I3 on	O3	Y
[deg] Pointing Roll	85.994203	86.15317807599099	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	O2	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	N	N
[s] Observation start time (MET)	634700207.184000	634699188.32332	CCD S5 on	N	N
Observation start date	2018-02-11T01:35:38	2018-02-11T01:19:48	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	634706334.184000	634707083.3862799	On-chip summing requested	N	N
Observation end date	2018-02-11T03:17:45	2018-02-11T03:31:23	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect





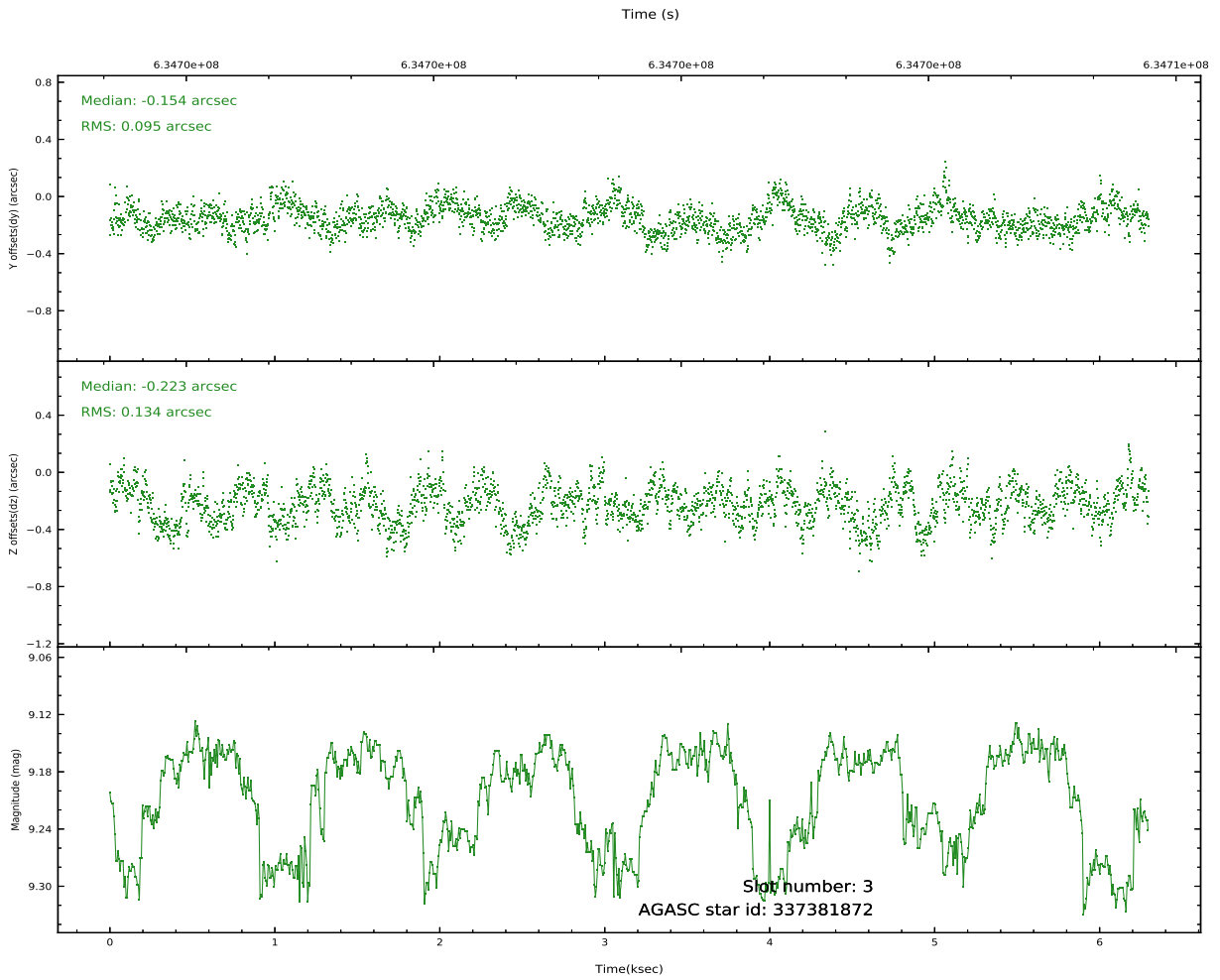
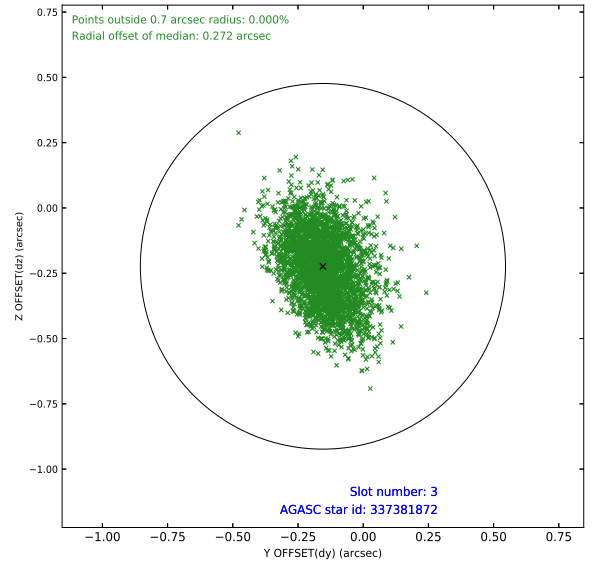
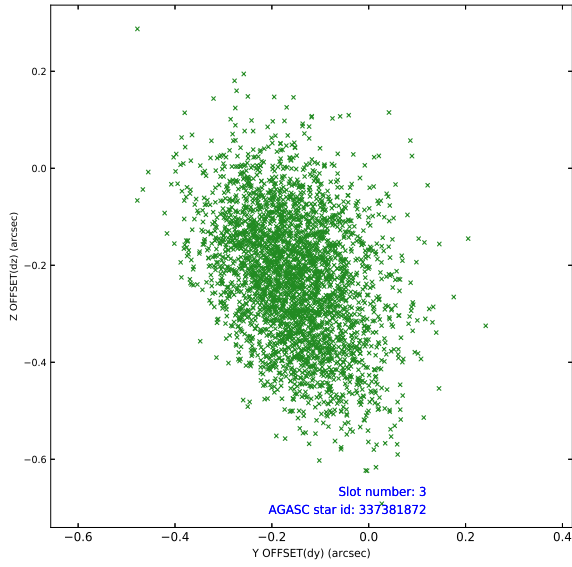
Slot Statistics

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	7.07	1535	1.000	0.072	-0.095	0.008	0.013	0.000000	0.000000	-767.73	-1740
1	FID		ACIS-S-4	7.19	1536	1.000	0.176	-0.009	0.006	0.011	0.000000	0.000000	2145.42	166
2	FID		ACIS-S-5	7.17	1535	1.000	-0.279	0.113	0.008	0.015	0.000000	0.000000	-1819.53	161
3	GUIDE	used	337381872	9.20	3068	1.000	-0.154	-0.223	0.173	0.287	236.480787	33.780193	658.56	1935
4	GUIDE	used	337385912	8.34	3070	1.000	-0.036	-0.038	0.133	0.226	236.890707	33.894202	1148.30	739
5	GUIDE	used	337387272	9.50	3066	1.000	-0.079	-0.295	0.185	0.302	236.538181	34.156368	2020.65	1851
6	GUIDE	used	337521256	9.85	3052	1.000	0.059	0.232	0.217	0.376	237.477223	33.803520	947.60	-1032
7	GUIDE	used	337523920	9.25	3070	1.000	0.203	0.332	0.155	0.261	237.860122	33.157676	-1284.78	-2354

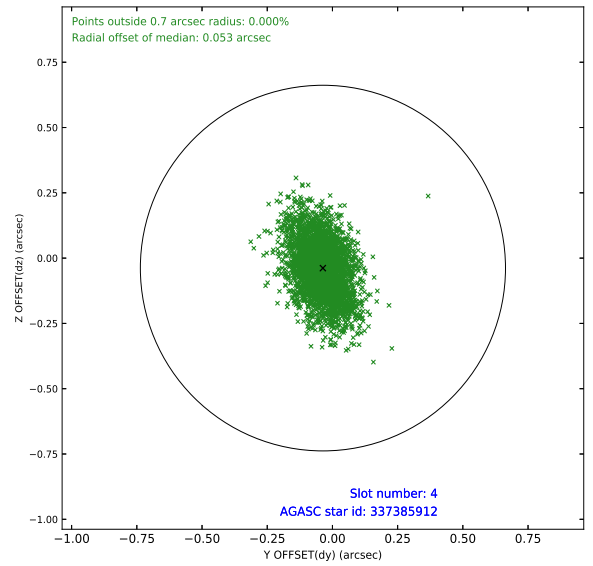
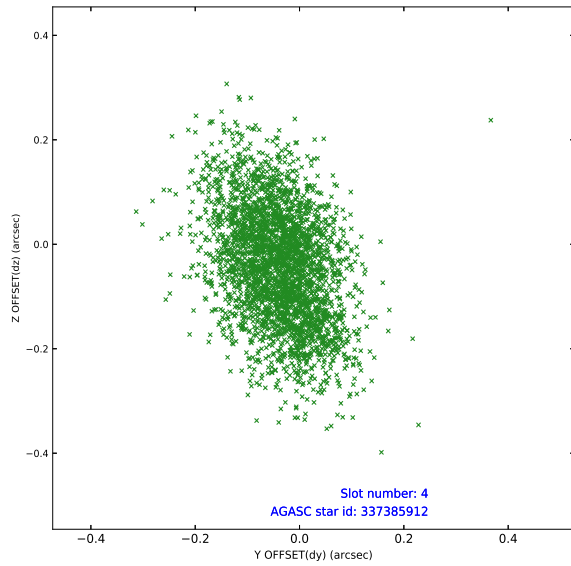
∞

2.4 Star Slots

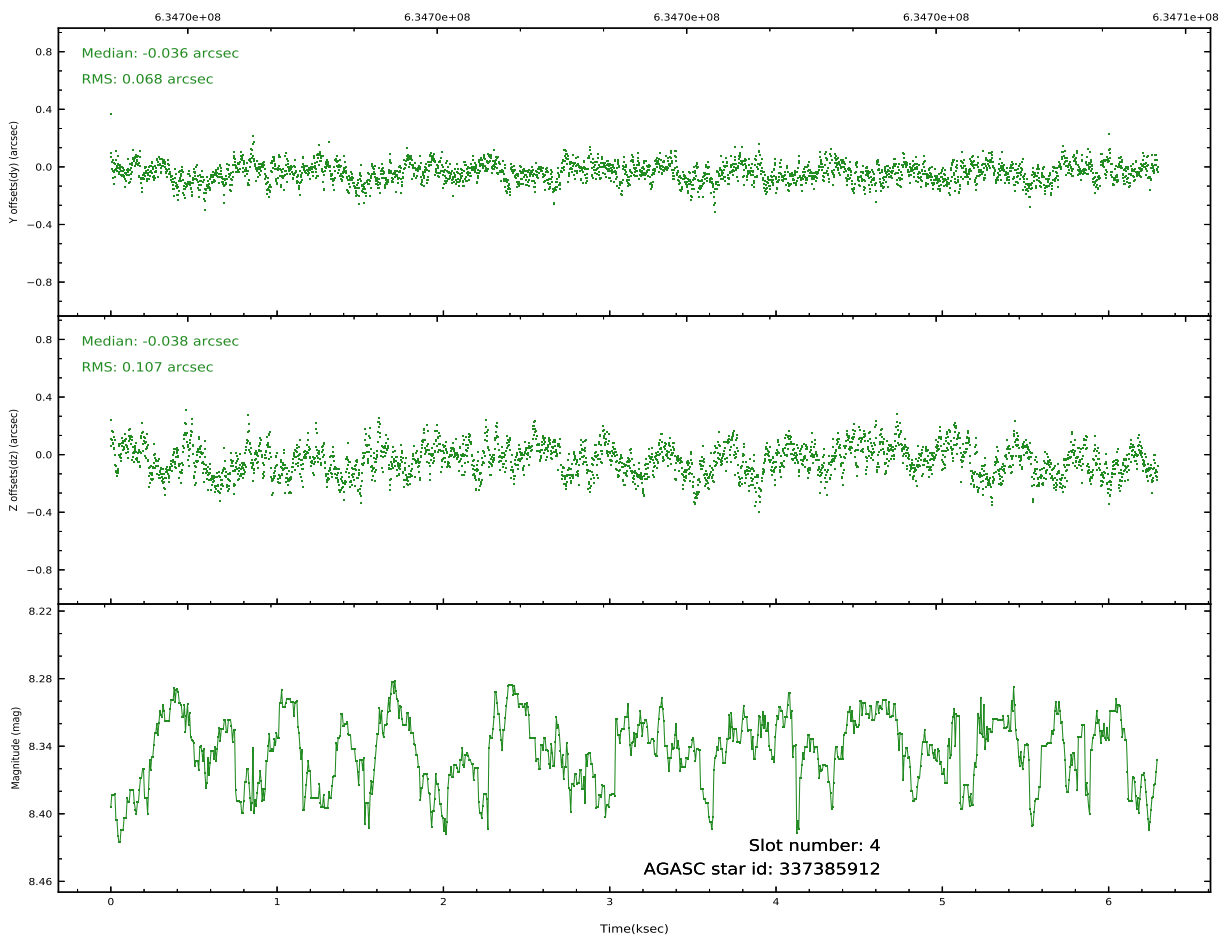
2.4.1 Slot 3



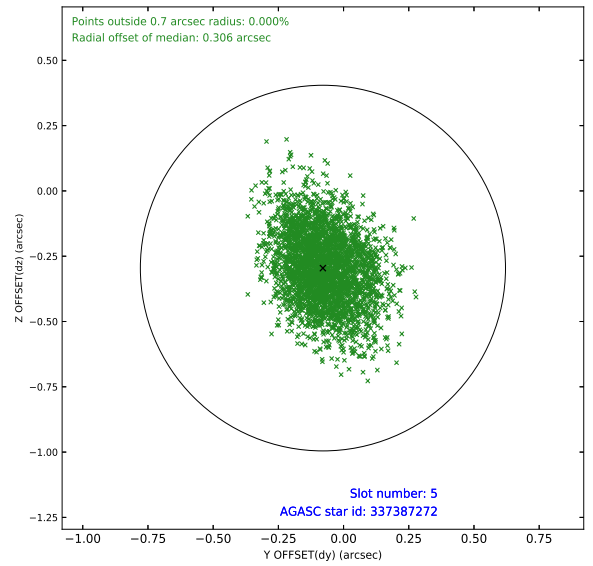
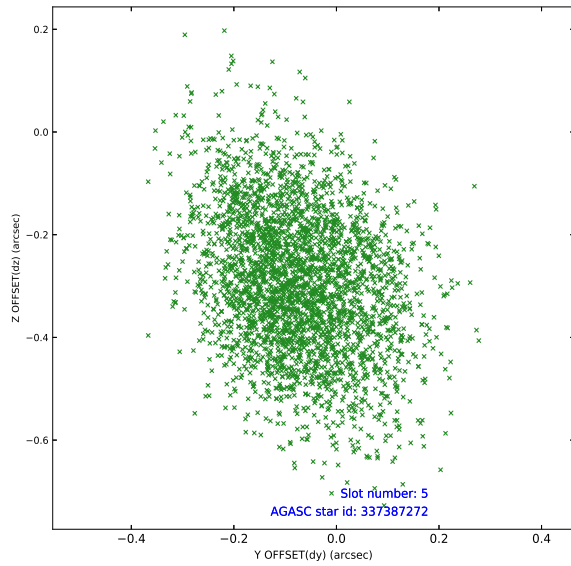
2.4.2 Slot 4



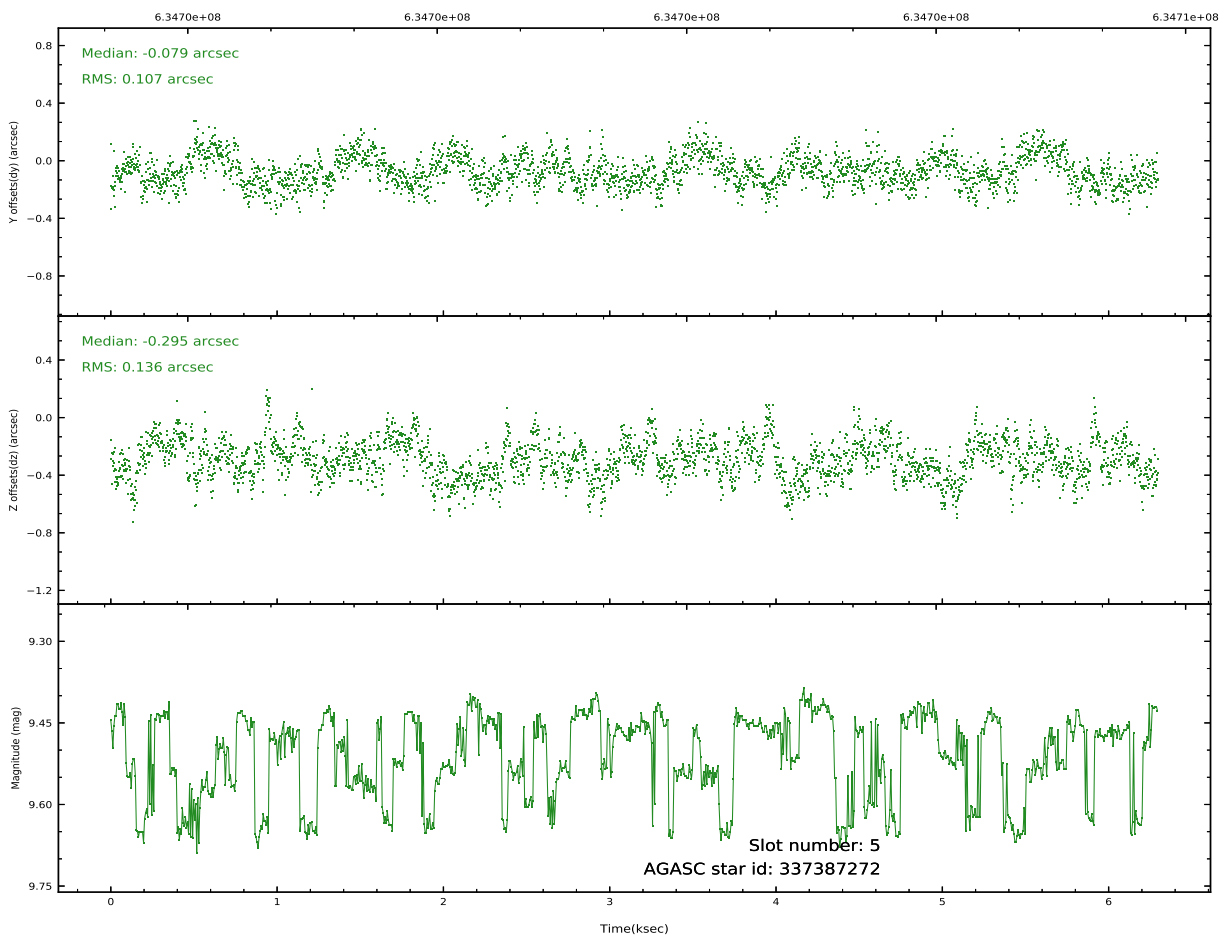
Time (s)



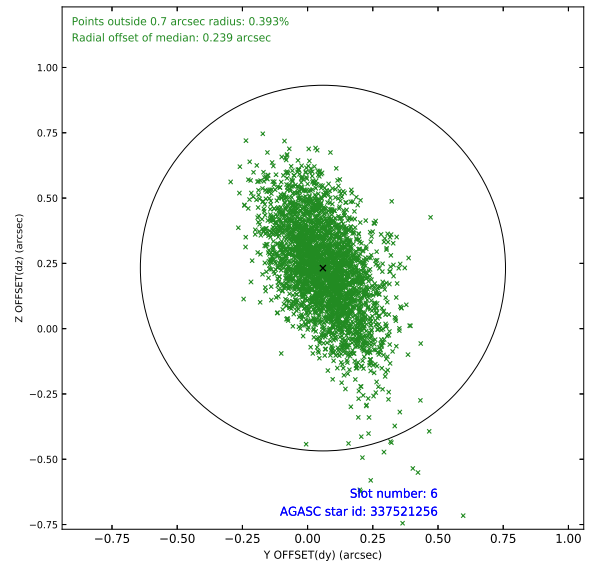
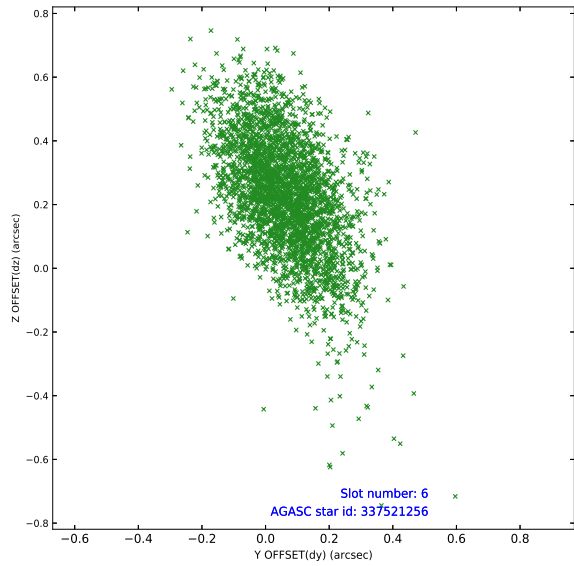
2.4.3 Slot 5



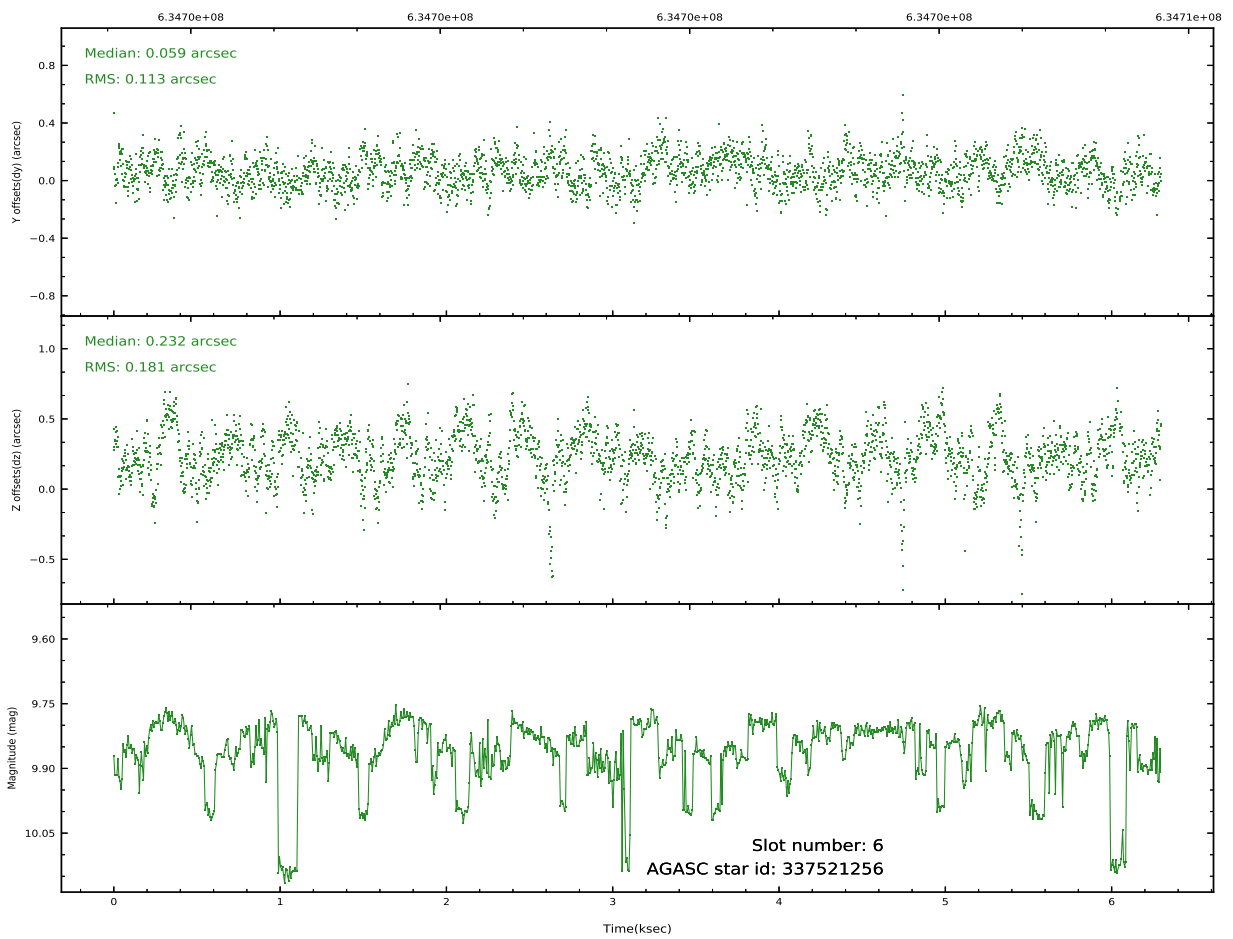
Time (s)



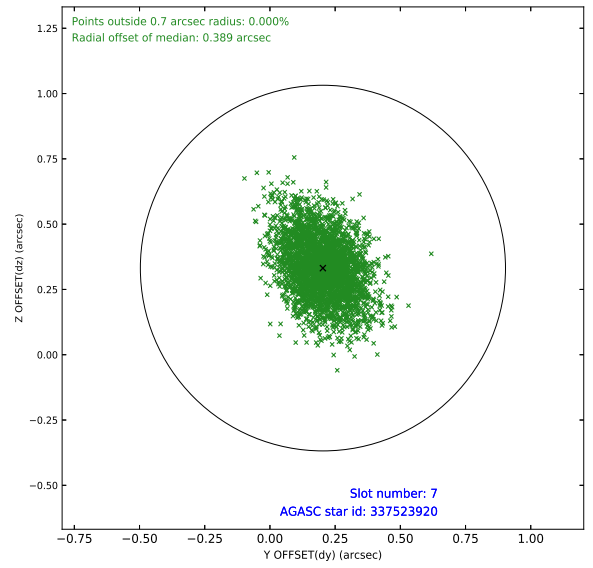
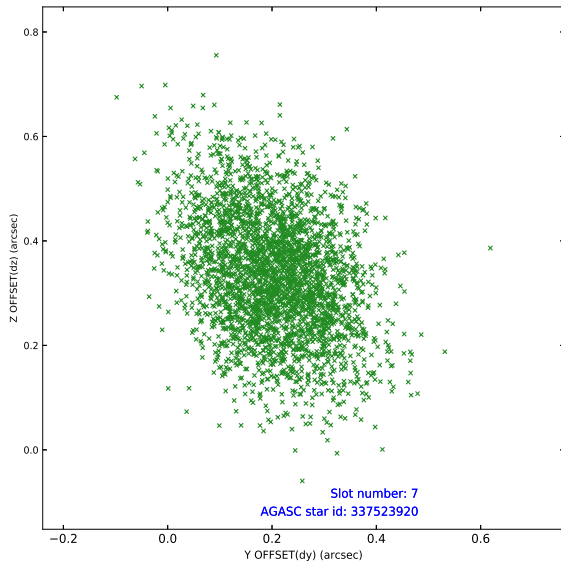
2.4.4 Slot 6



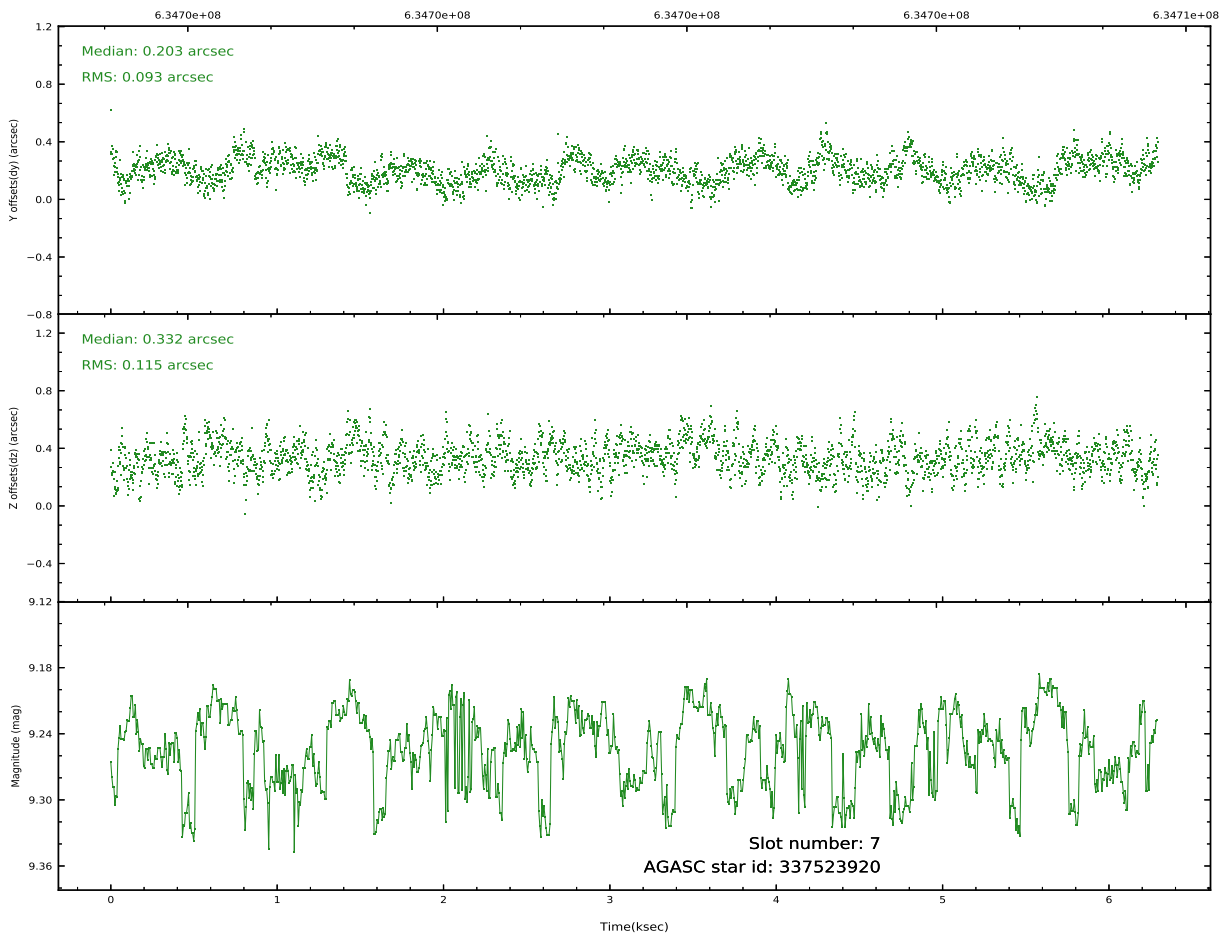
Time (s)



2.4.5 Slot 7

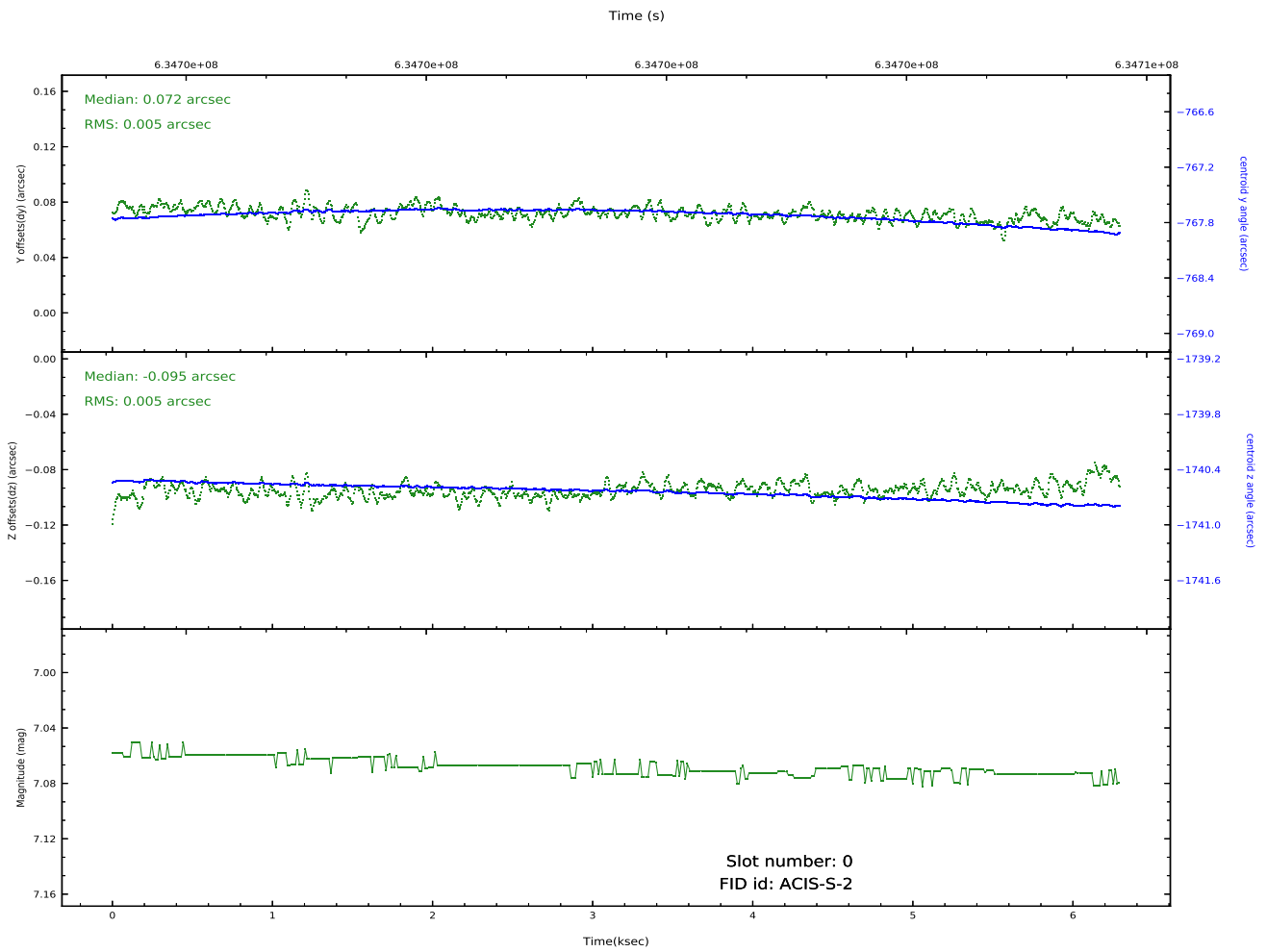
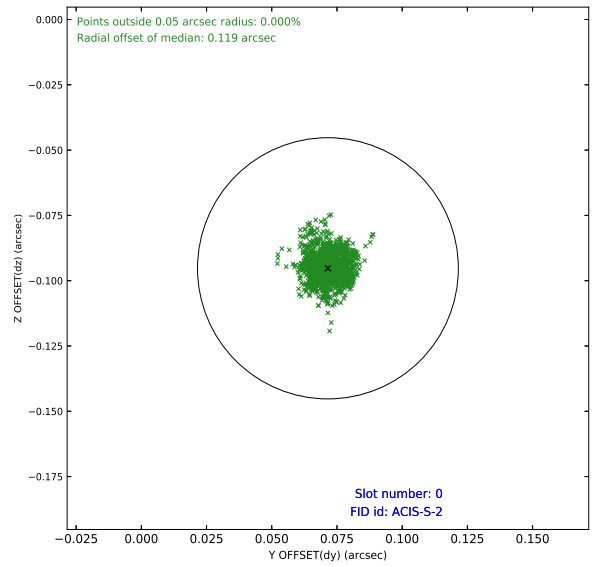
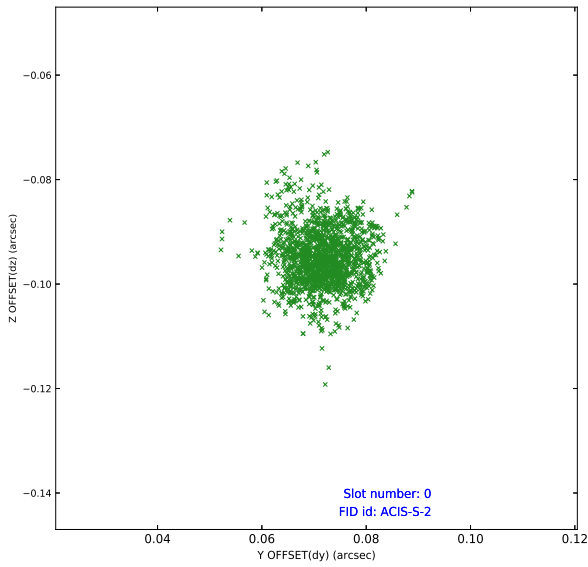


Time (s)

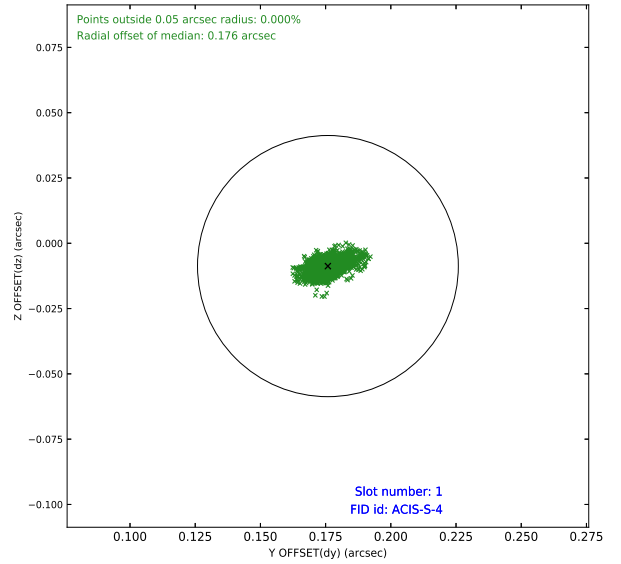
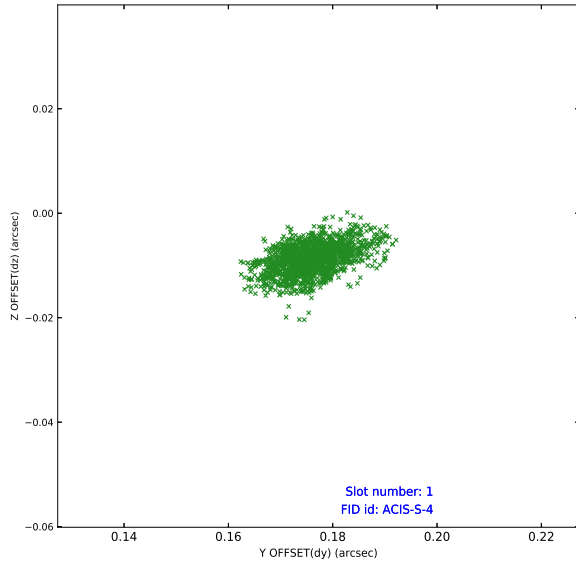


2.5 FID Slots

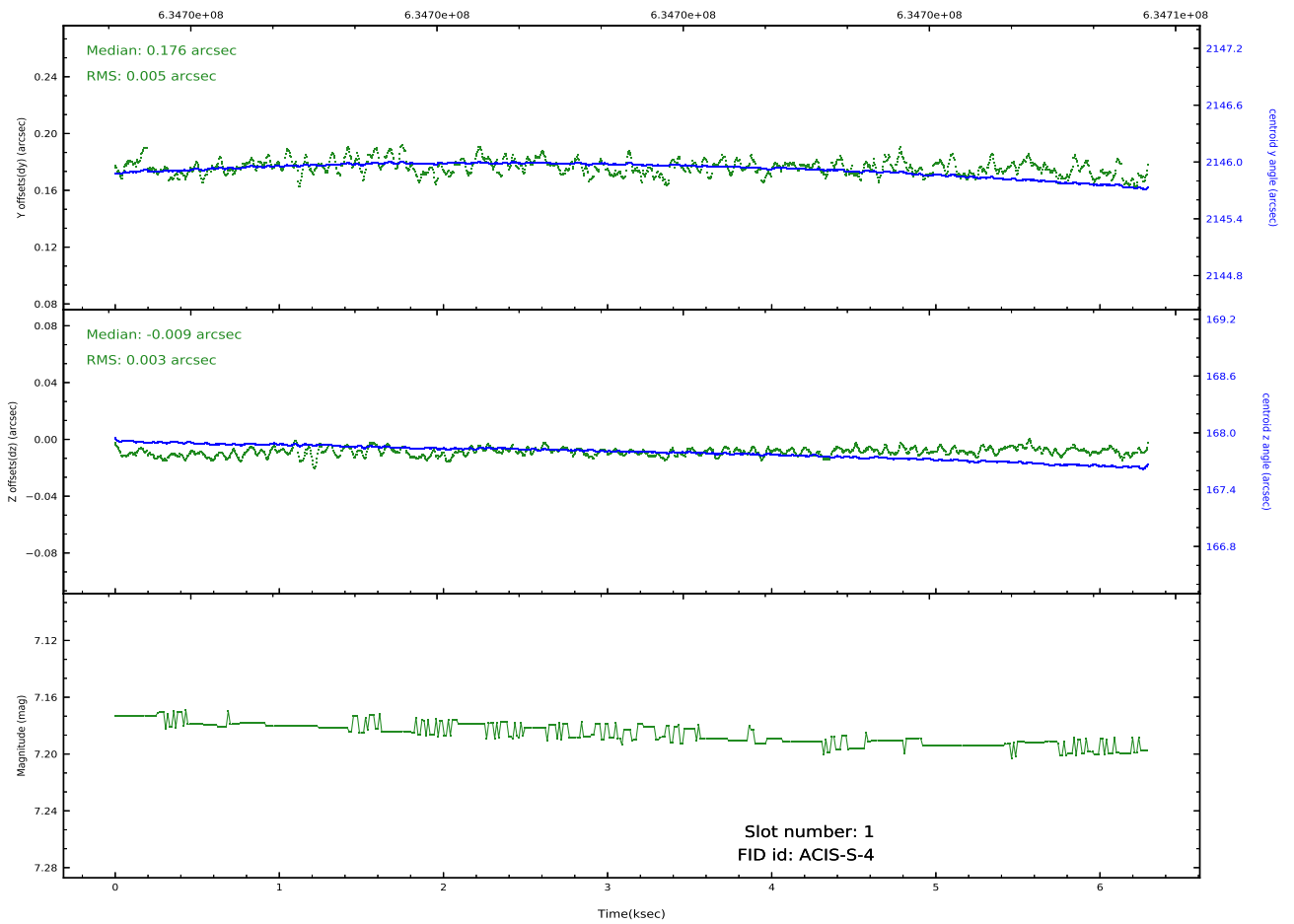
2.5.1 Slot 0



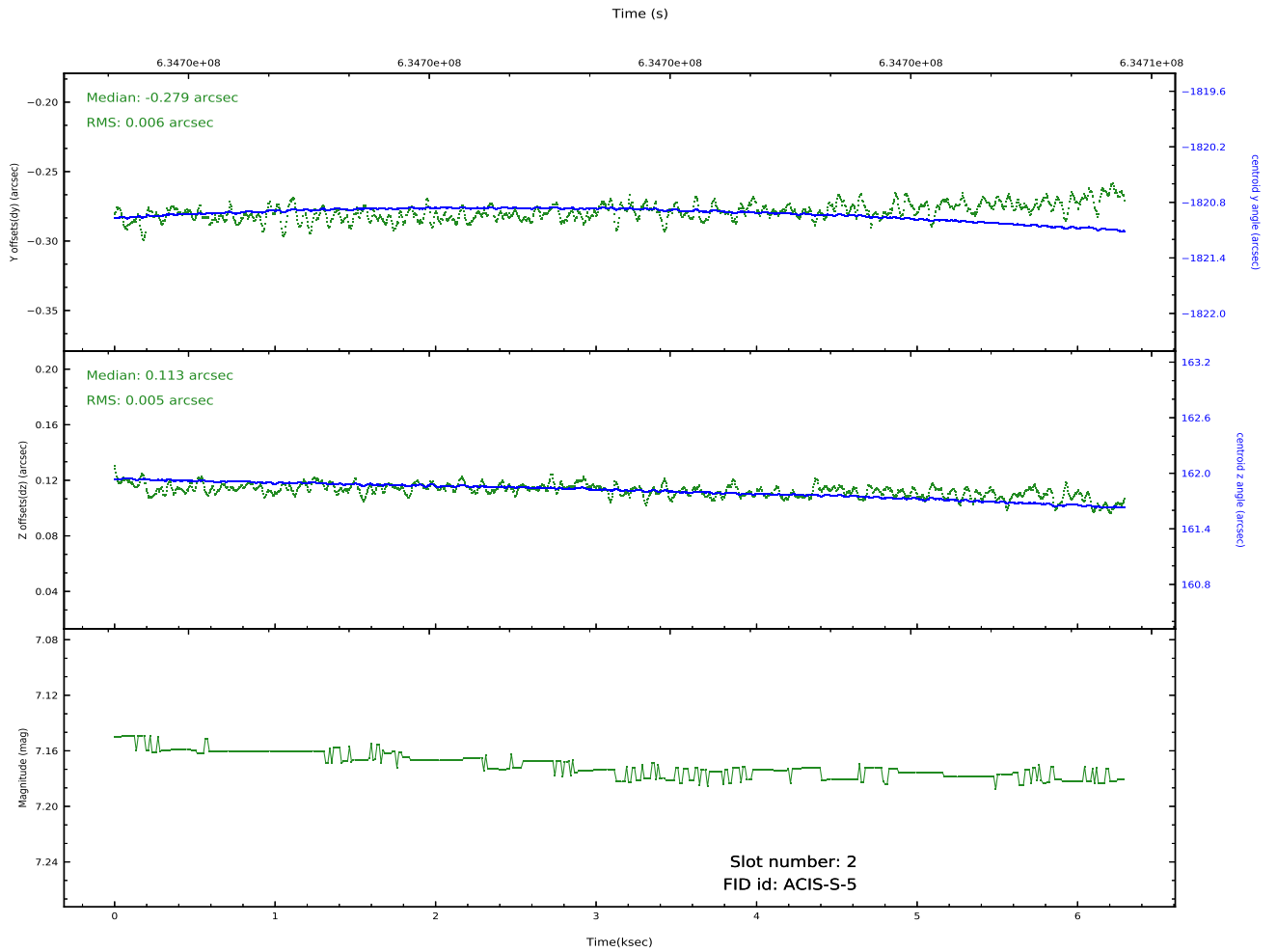
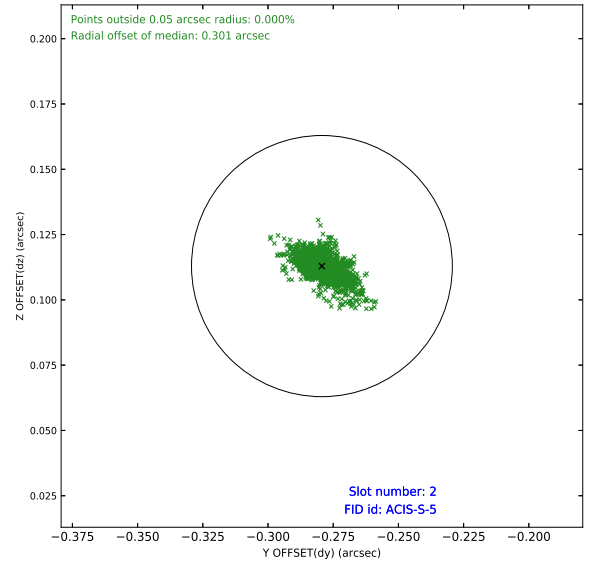
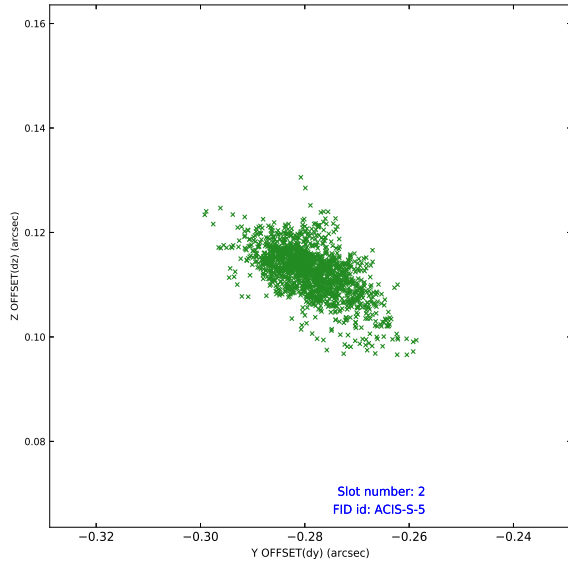
2.5.2 Slot 1



Time (s)



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.1938000477552

A.2 Comments