

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20445 - L2 Version 2
Chandra X-Ray Center

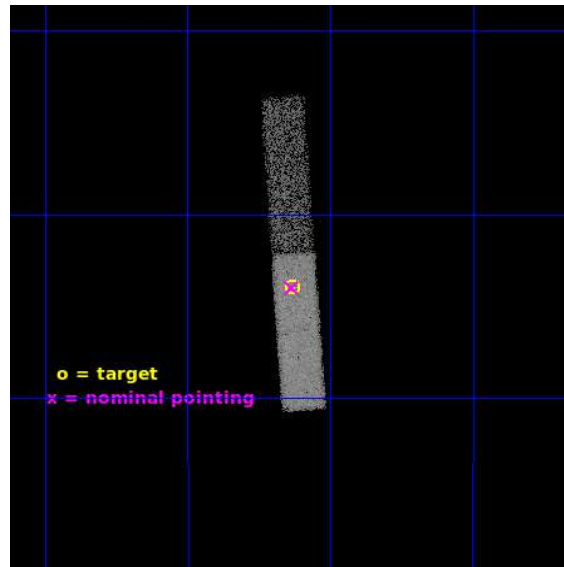
L2 Processing Date : Oct 25 2020

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

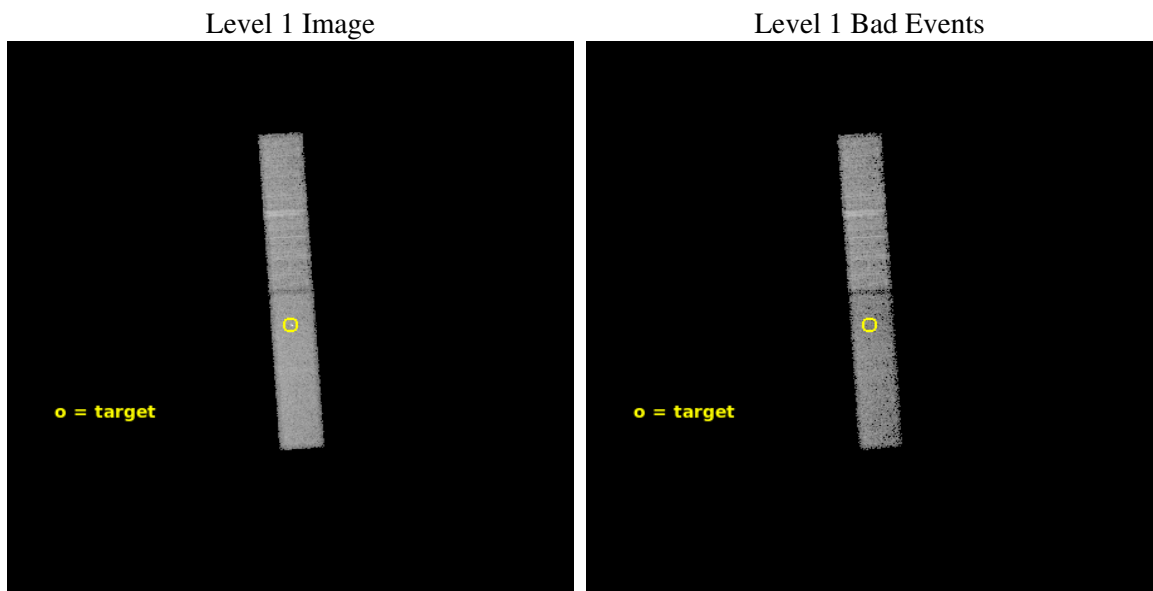
seq_num	703550	Sequence number
obs_id	20445	Observation id
title	The X-ray-radio morphology anomaly in a high-redshift quasar jet	P
observer	Diana Worrall	Principal investigator
object	J1421-0643	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	215.2825	Observer's specified target RA [deg]
dec_targ	-6.732306	Observer's specified target Dec [deg]
ra_nom	215.28357365561	Nominal RA [deg]
dec_nom	-6.7331685570154	Nominal Dec [deg]
roll_nom	86.151159920401	Nominal Roll [deg]
revision	2	Processing version of data
ontime	23203.79938519	Sum of GTIs [s]
livetime	22191.85098048	Livetime [s]
ontime6	23203.768144369	Sum of GTIs [s]
ontime7	23203.79938519	Sum of GTIs [s]
l2events	30063	Number of level 2 events



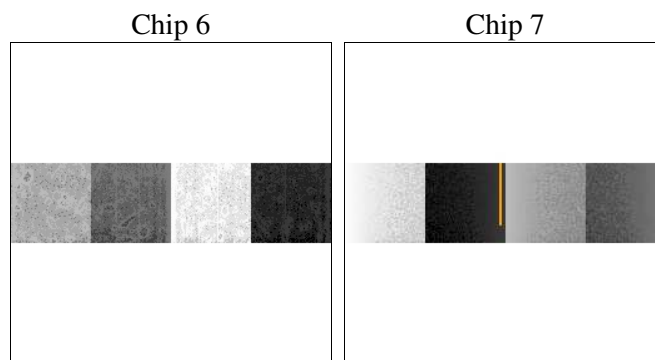
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	23100.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	23203.79938519	Sum of GTIs [s]
caldsver	4.9.3	 	ontime6	23203.768144369	Sum of GTIs [s]
date	2020-10-25T04:54:02	Date and time of file creation	ontime7	23203.79938519	Sum of GTIs [s]
revision	2	Processing version of data	l1events	105927	Number of level 1 events

2.1.4 Events

	ccd 6	ccd 7
level 1 events	50387	55540
rejected events	44818	29180
rejected %	88%	52%

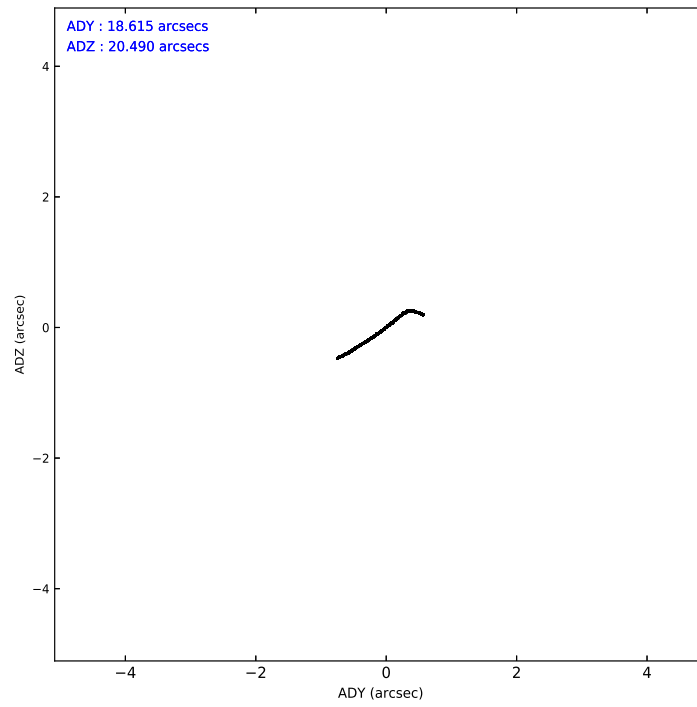
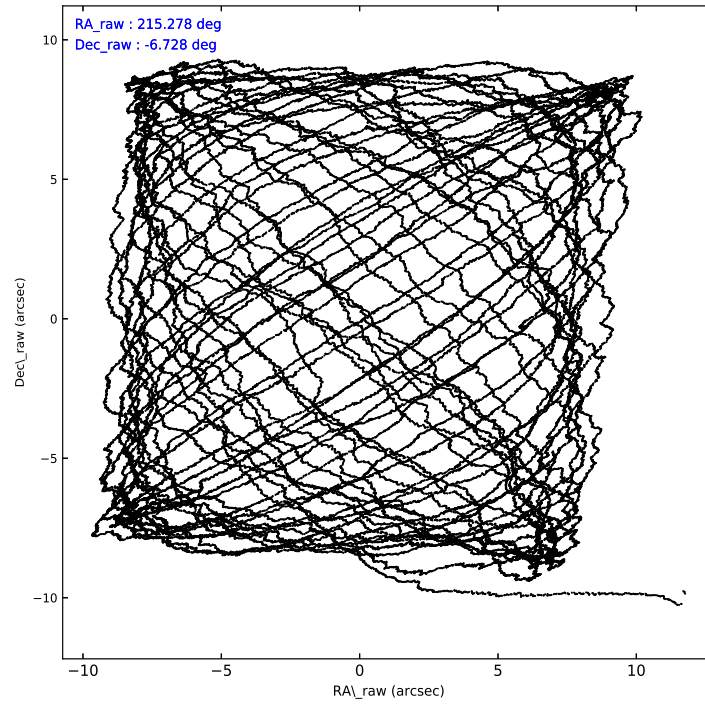
	ccd 6	ccd 7
grade 0 events	1467	2616
	2%	4%
grade 1 events	14	76
	0%	0%
grade 2 events	1077	5167
	2%	9%
grade 3 events	886	2844
	1%	5%
grade 4 events	827	2752
	1%	4%
grade 5 events	1751	5650
	3%	10%
grade 6 events	1312	12984
	2%	23%
grade 7 events	43053	23451
	85%	42%

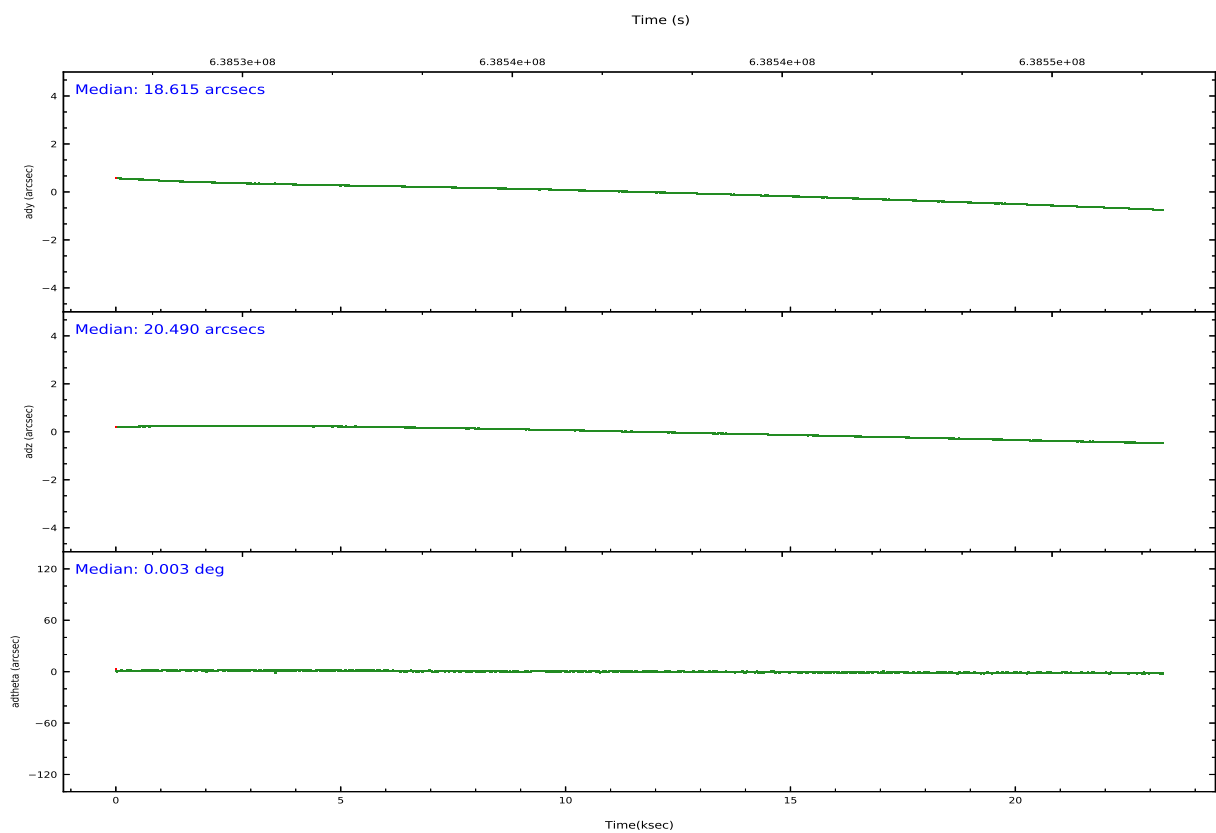
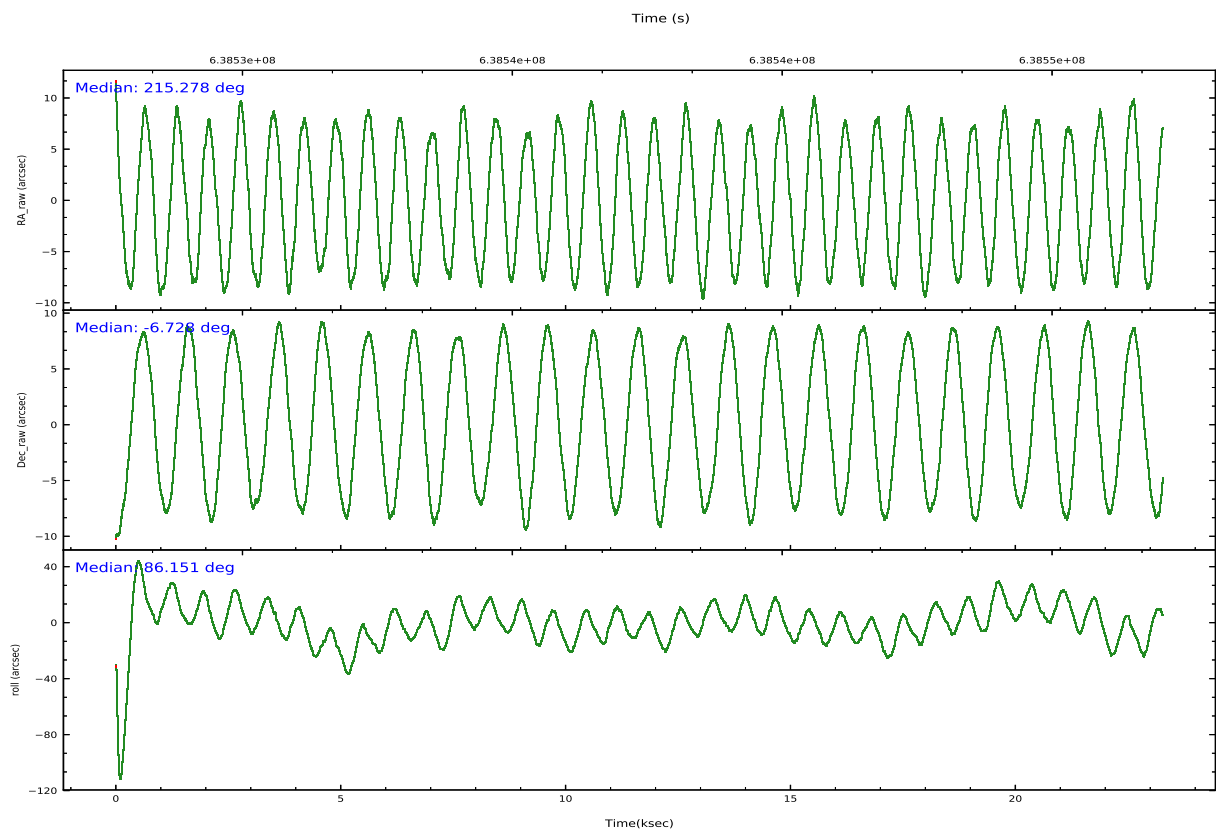
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-67	ACIS-67
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	215.290569	215.28357365561
[deg] Pointing Dec	-6.751870	-6.7331685570154
[deg] Pointing Roll	86.000948	86.151159920401
[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)	638527370.184000	638526276.66144
Observation start date	2018-03-27T08:41:41	2018-03-27T08:24:36
[s] Observation end time (MET)	638550470.184000	638551232.3379101
Observation end date	2018-03-27T15:06:41	2018-03-27T15:20:32
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar version number	8	8
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	N	N
CCD I1 on	N	N
CCD I2 on	N	N
CCD I3 on	N	N
CCD S0 on	N	N
CCD S1 on	N	N
CCD S2 on	O1	Y
CCD S3 on	Y	Y
CCD S4 on	N	N
CCD S5 on	N	N
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	CUSTOM	1/4
Subarray start row	385	385
Subarray row count	256	256
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	0.9

2.3 Aspect



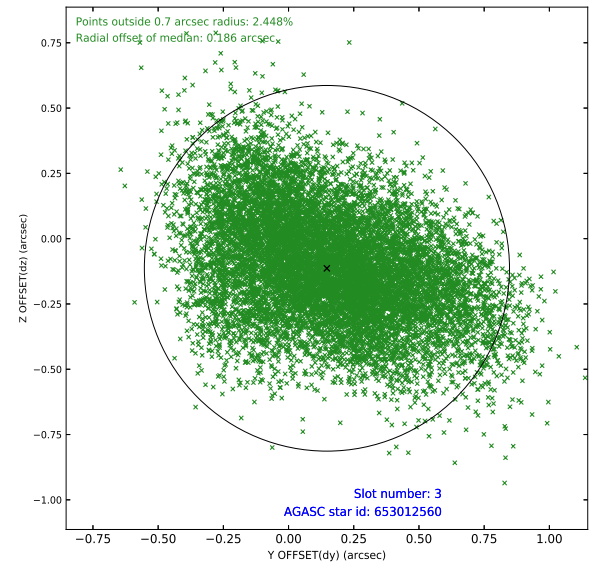
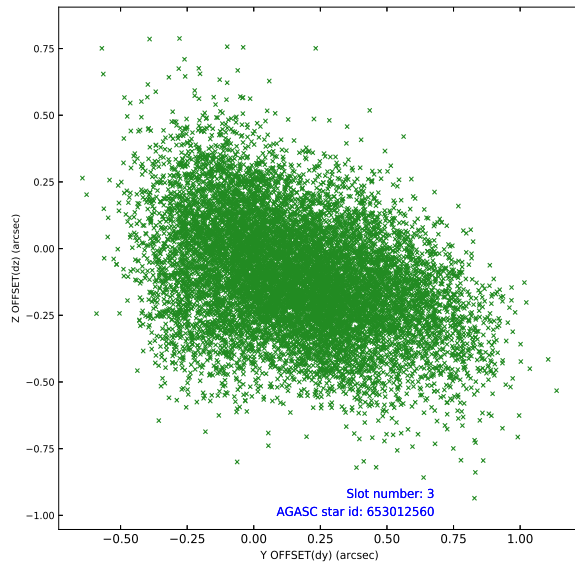


Slot Statistics

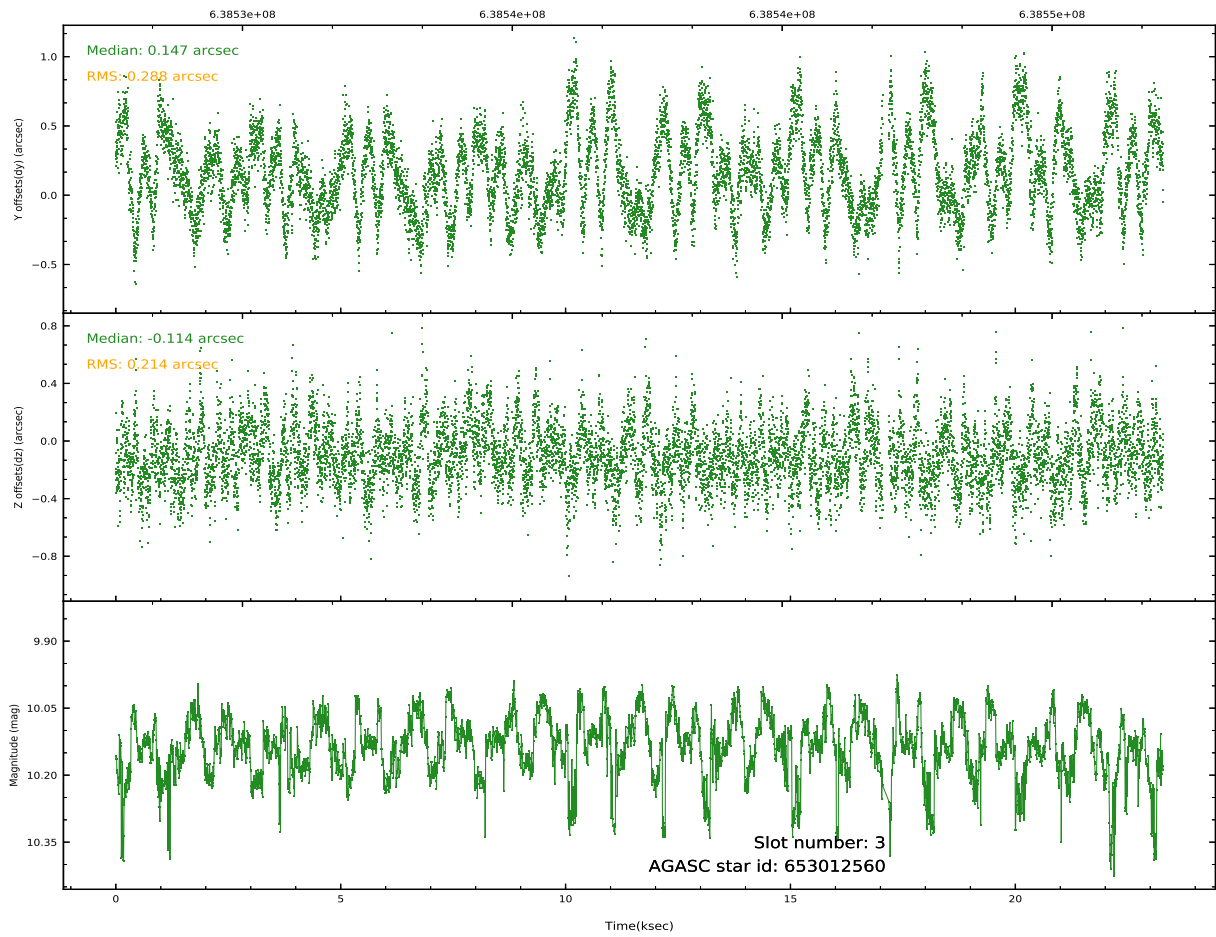
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.12	5680	1.000	0.104	-0.104	0.014	0.025	0.000000	0.000000	-771.74	-1741
1	FID		ACIS-S-4	7.21	5679	1.000	0.148	-0.022	0.010	0.019	0.000000	0.000000	2141.74	166
2	FID		ACIS-S-5	7.21	5679	1.000	-0.285	0.135	0.009	0.015	0.000000	0.000000	-1824.57	160
3	GUIDE	used	653012560	10.13	11234	1.000	0.147	-0.114	0.384	0.622	214.983808	-6.848787	-424.22	1070
4	GUIDE	used	653013880	6.37	11360	1.000	-0.020	0.035	0.183	0.307	214.971669	-6.746165	-59.64	1140
5	GUIDE	used	653013888	7.80	11358	1.000	0.035	0.056	0.197	0.316	214.671610	-7.013692	-1095.94	2141
6	GUIDE	used	653139552	10.05	11262	1.000	-0.035	0.030	0.363	0.577	215.072064	-6.202290	1918.67	919
7	GUIDE	used	653141776	9.28	11346	1.000	-0.131	-0.044	0.210	0.345	215.017653	-6.536026	707.31	1028

2.4 Star Slots

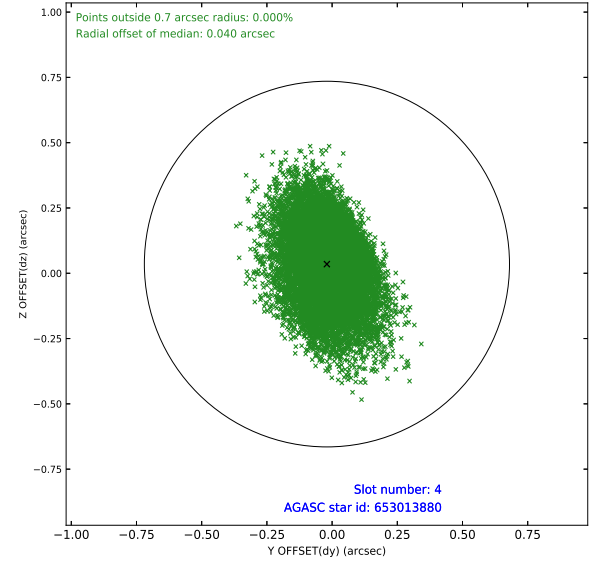
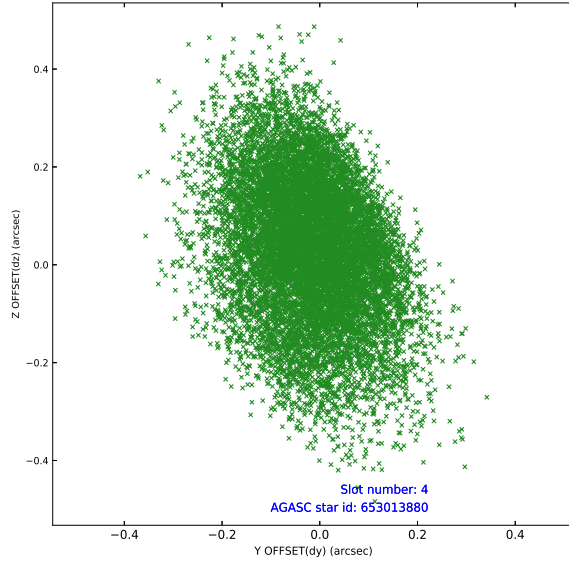
2.4.1 Slot 3



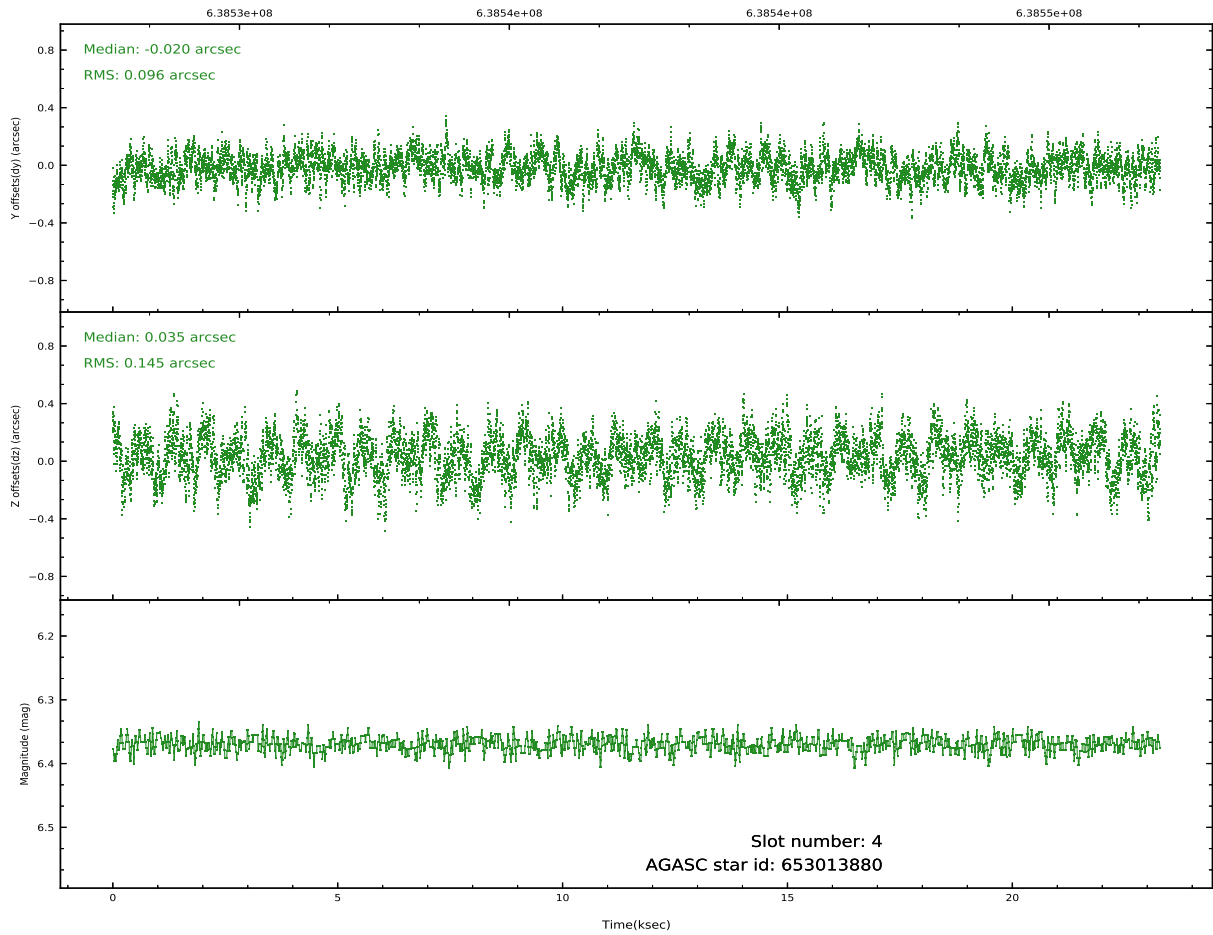
Time (s)



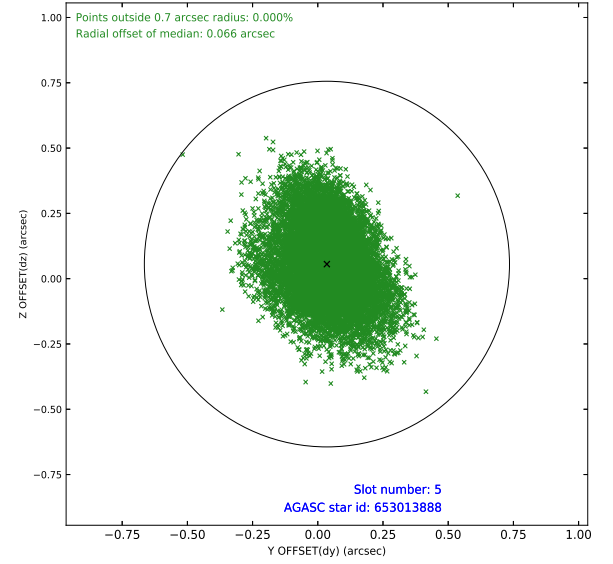
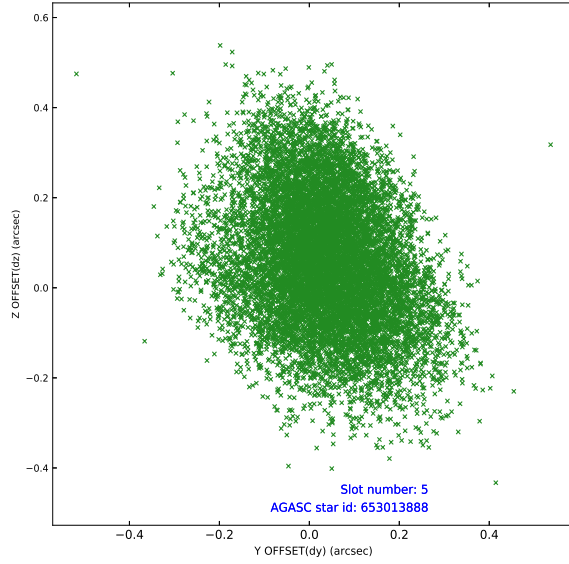
2.4.2 Slot 4



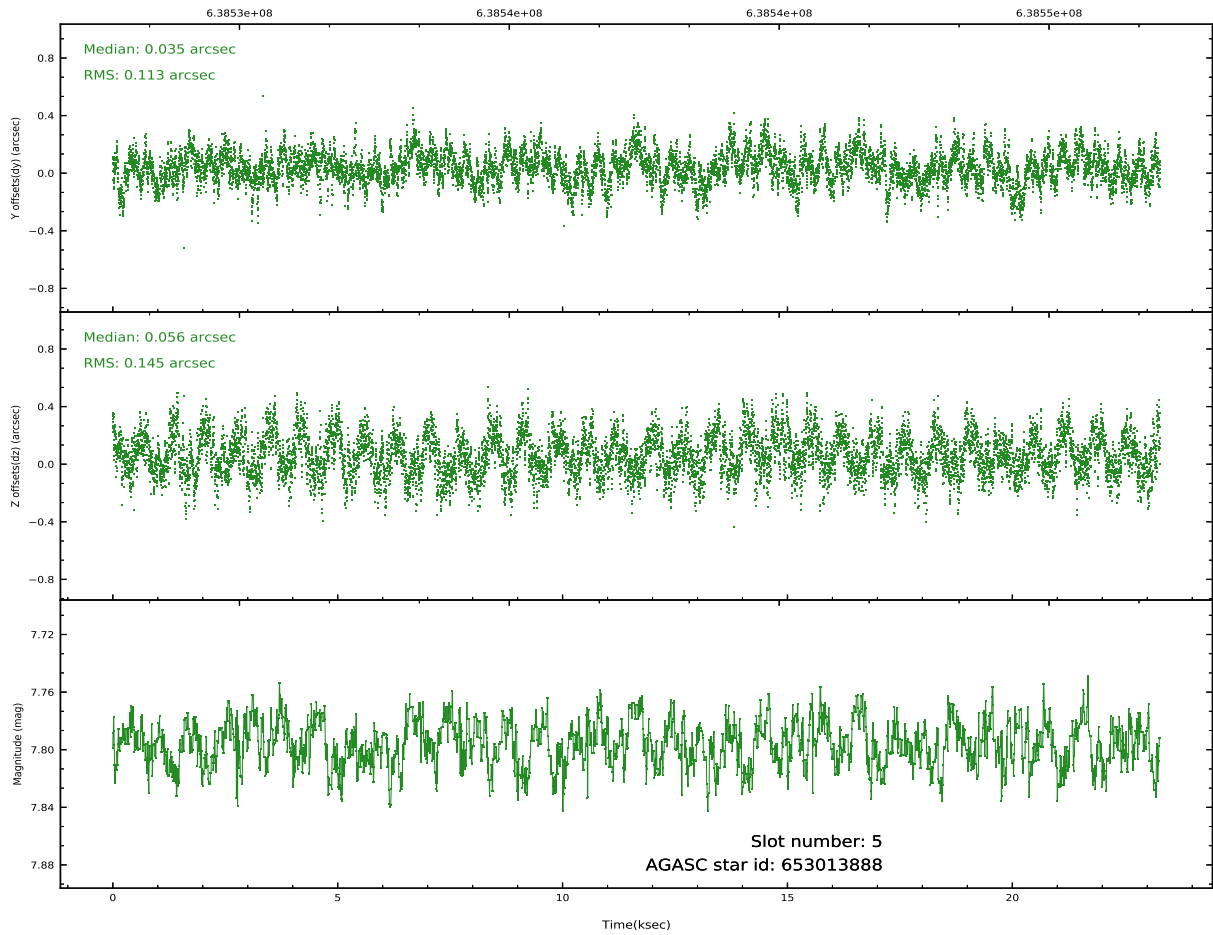
Time (s)



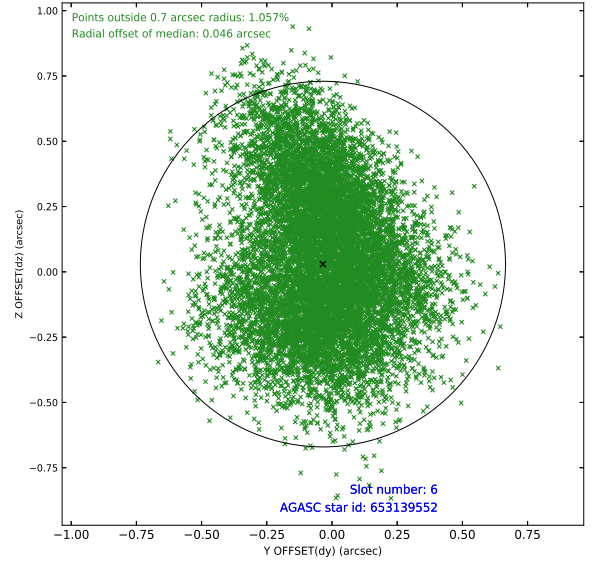
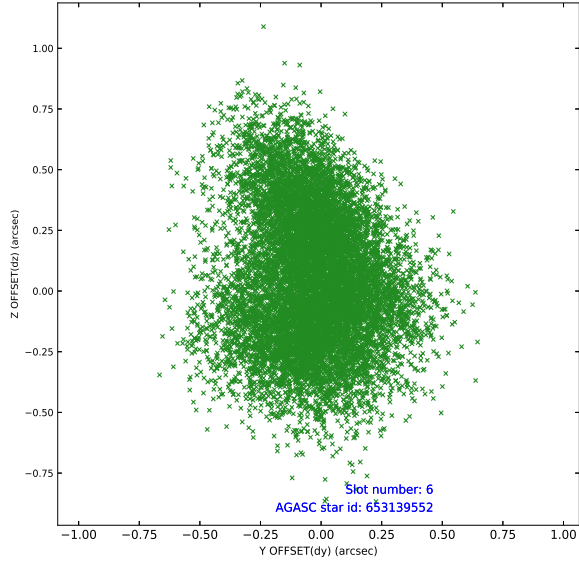
2.4.3 Slot 5



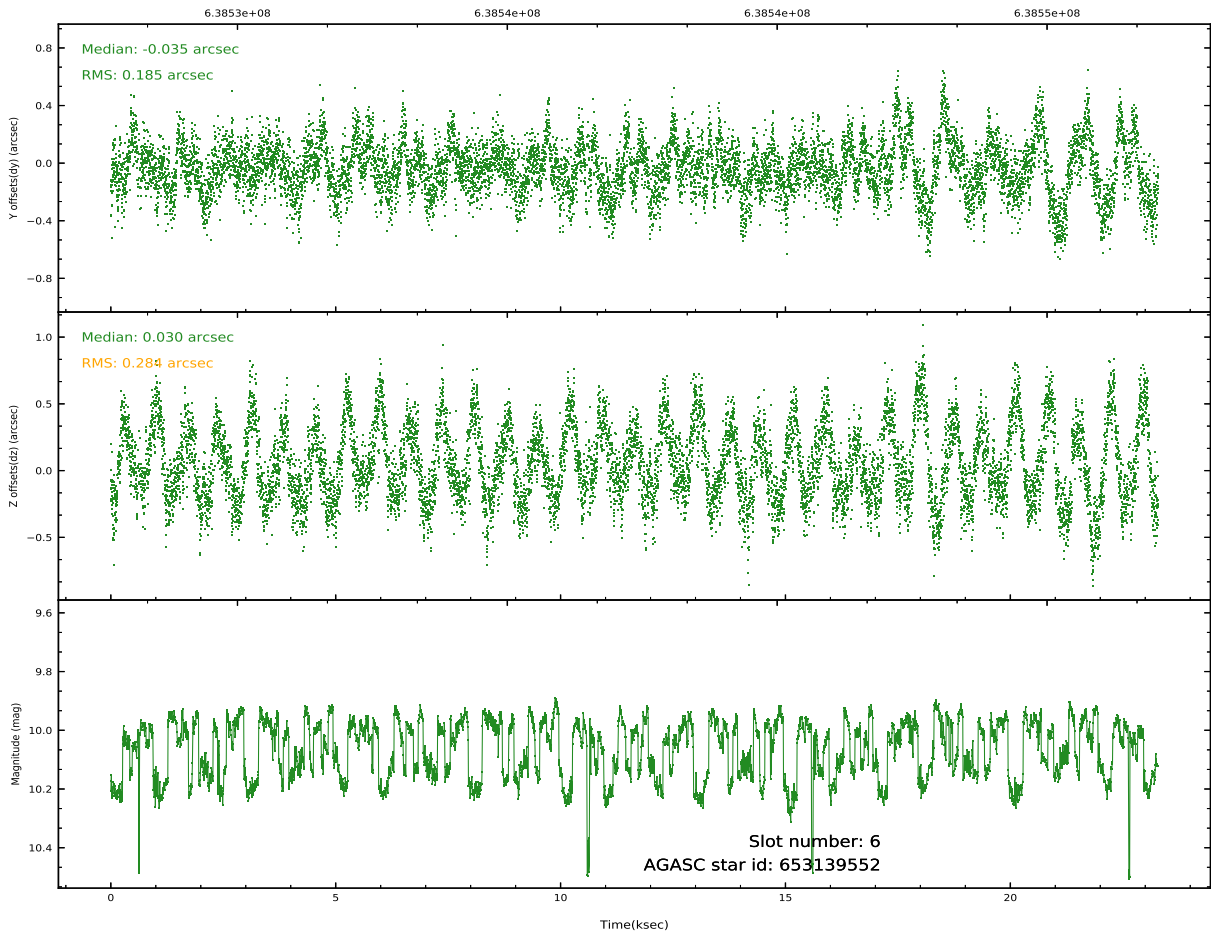
Time (s)



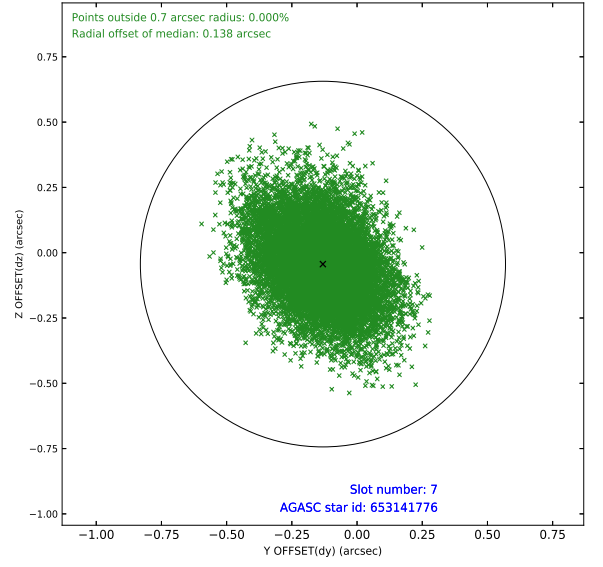
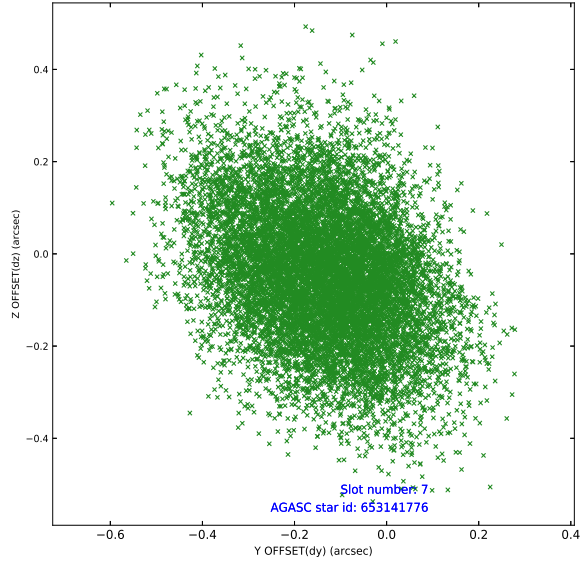
2.4.4 Slot 6



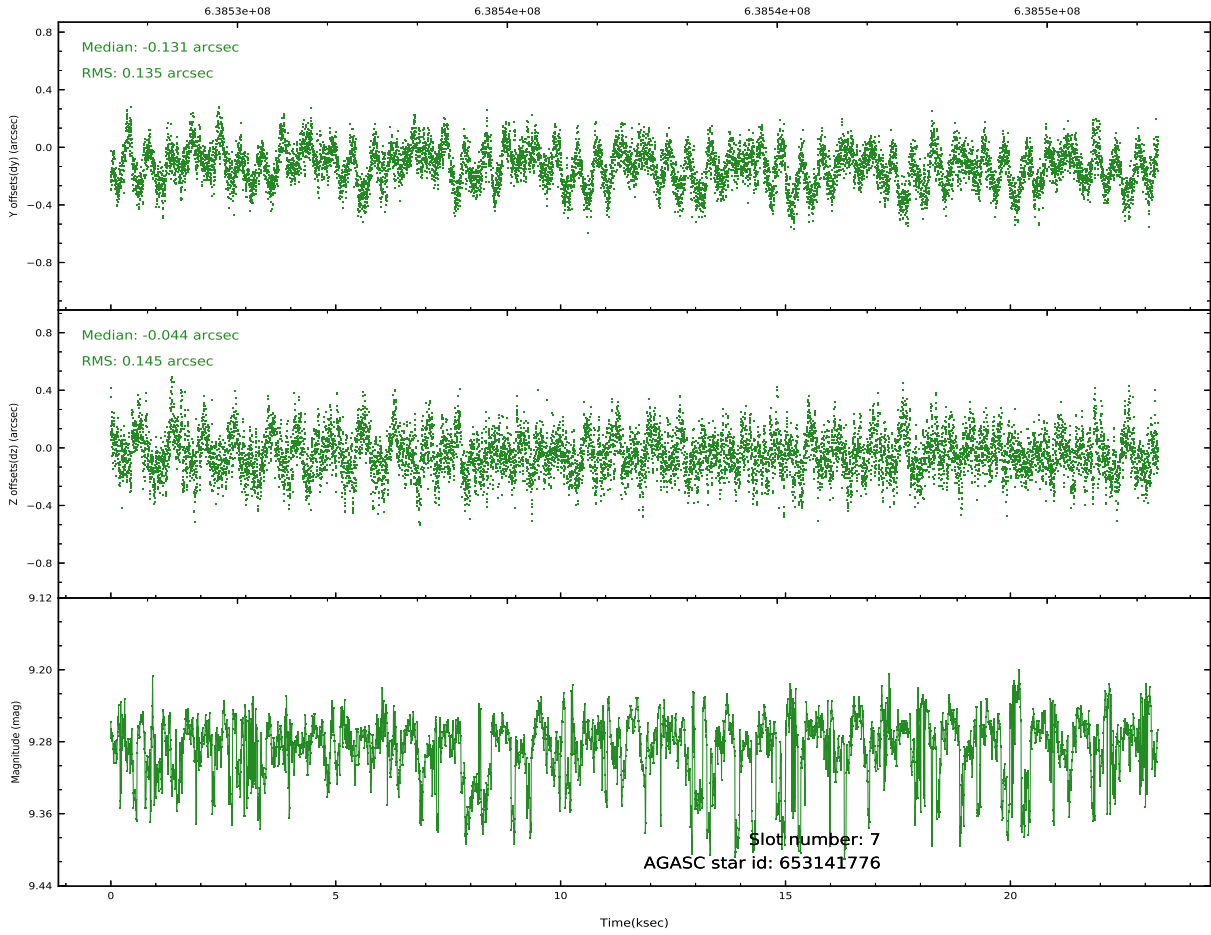
Time (s)



2.4.5 Slot 7

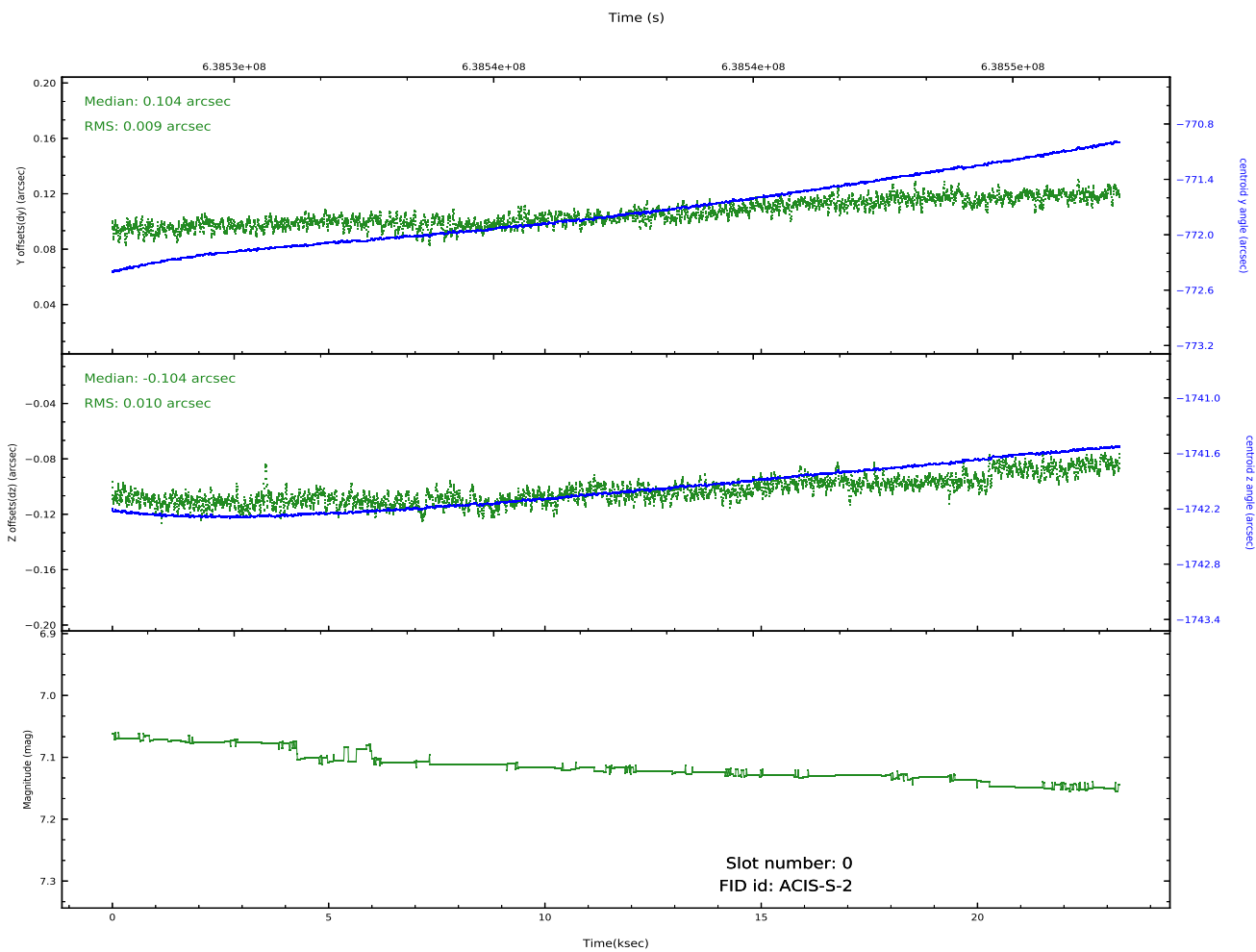
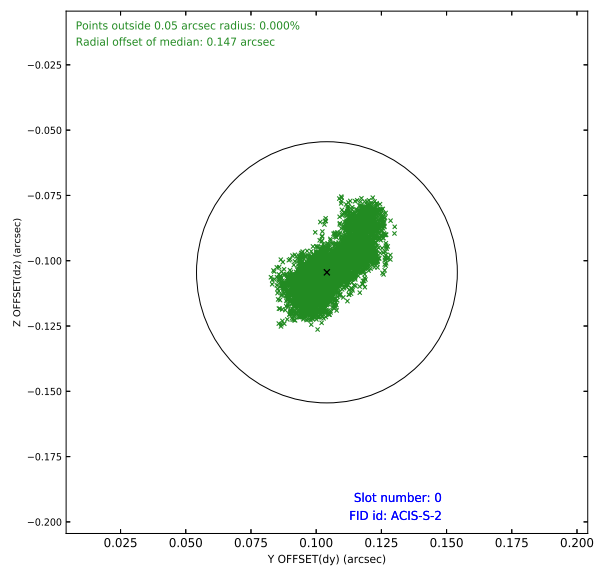
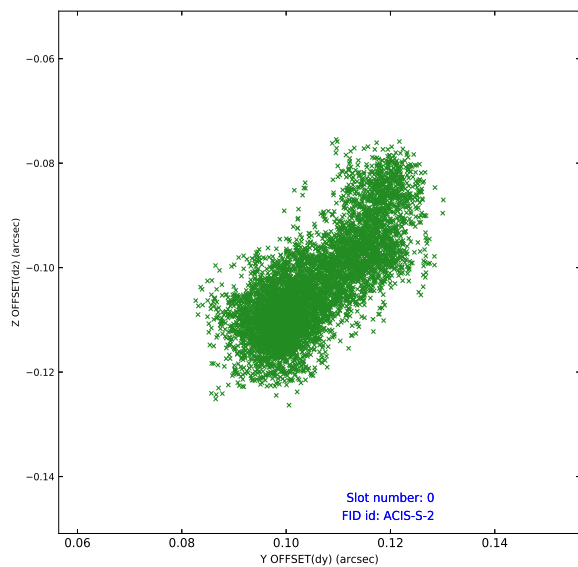


Time (s)

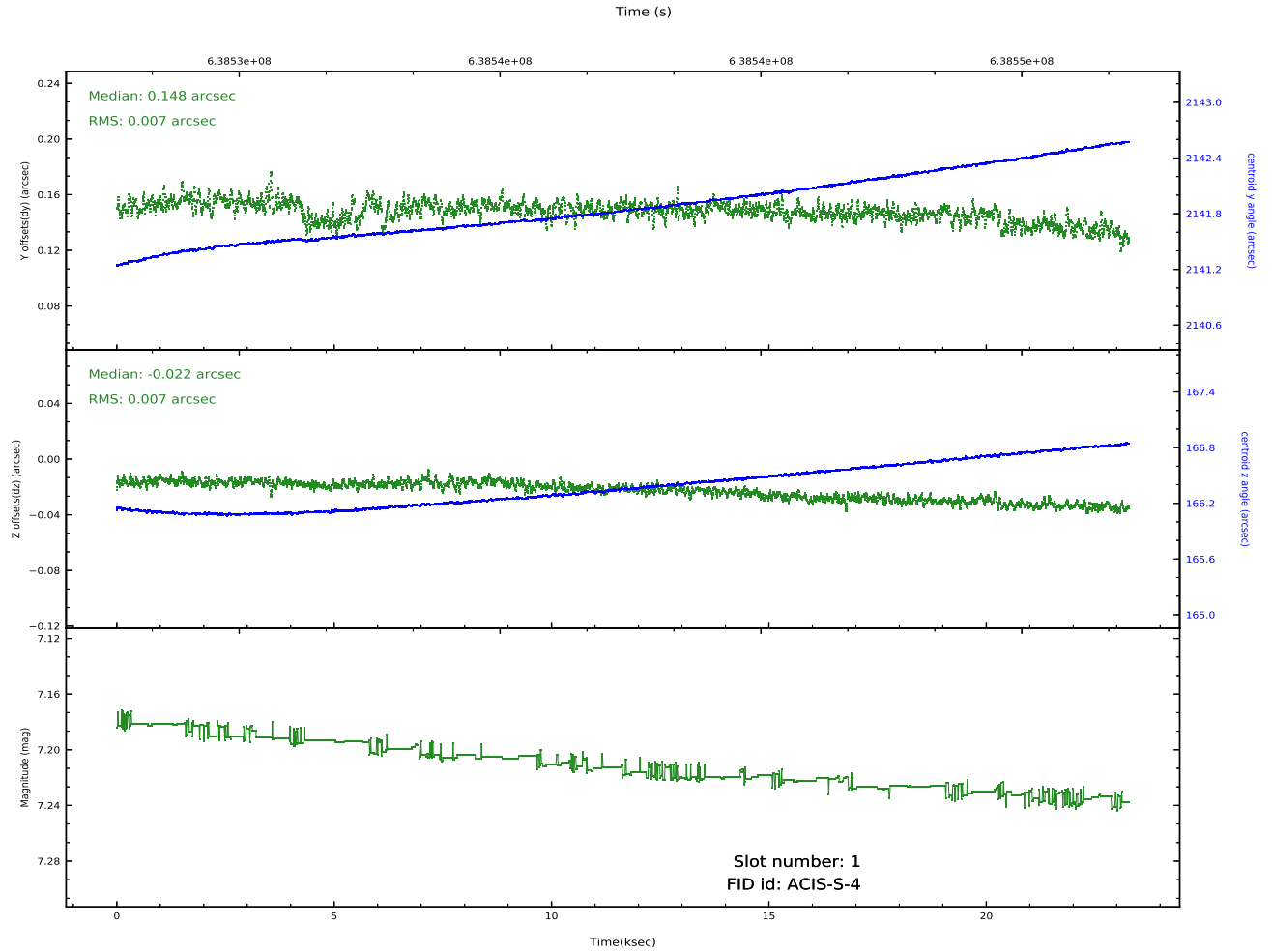
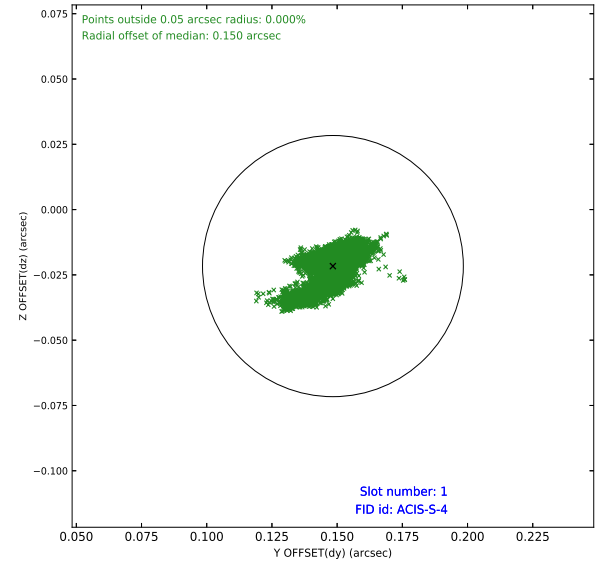
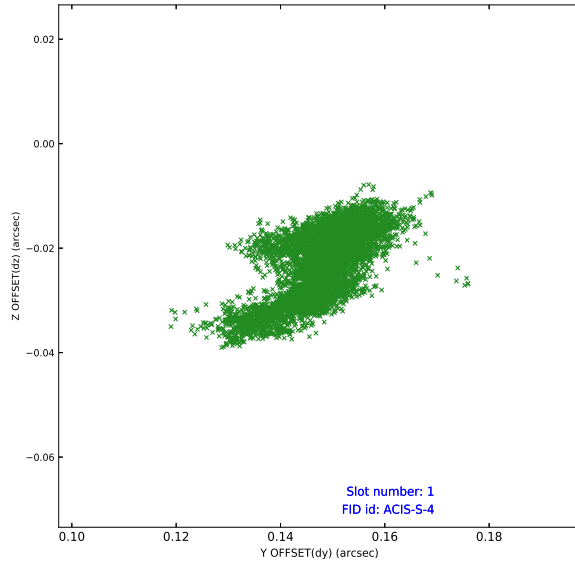


2.5 FID Slots

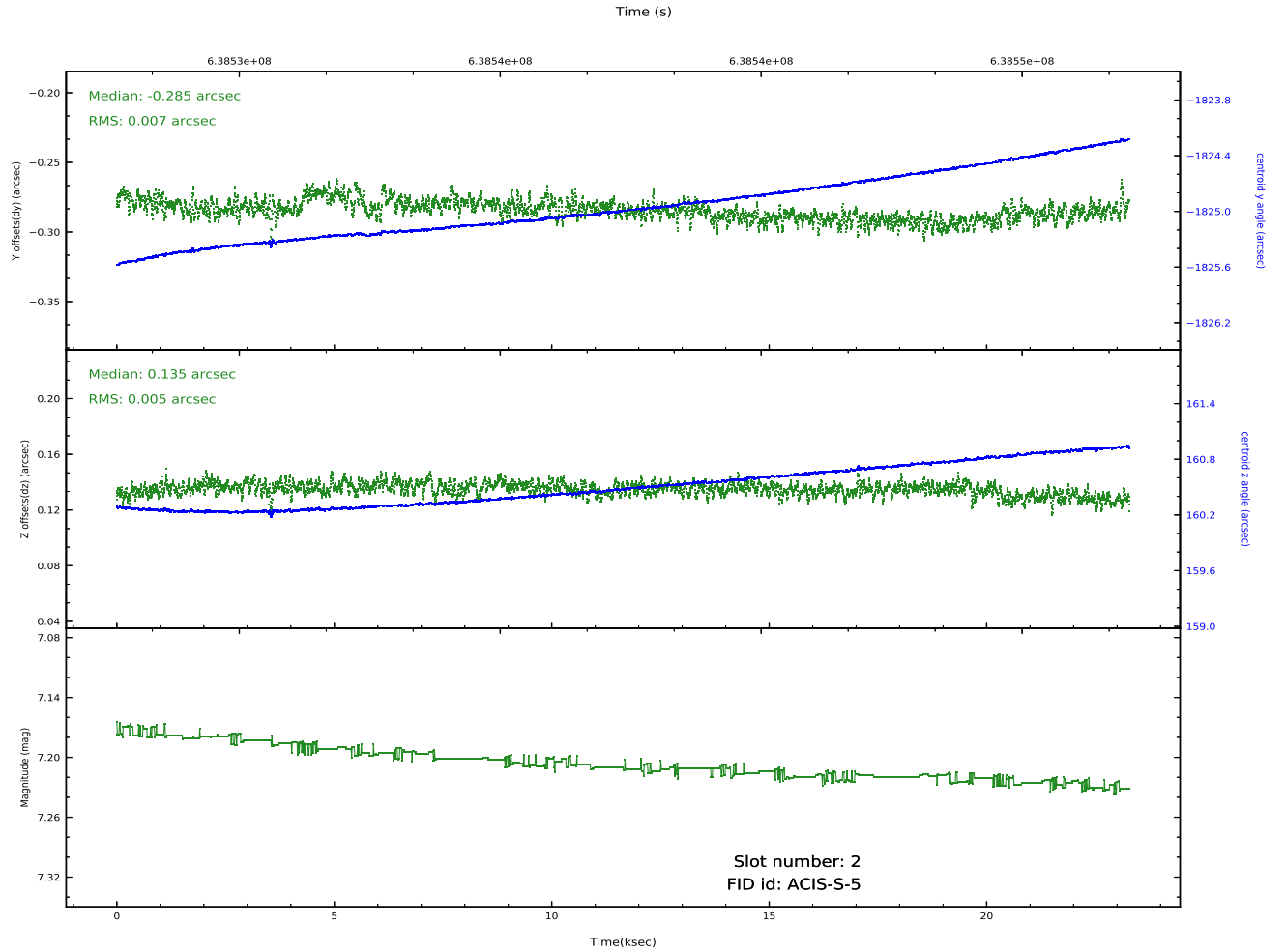
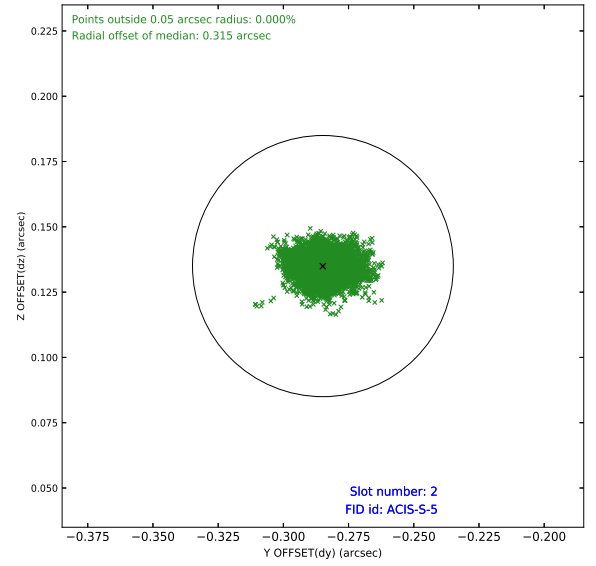
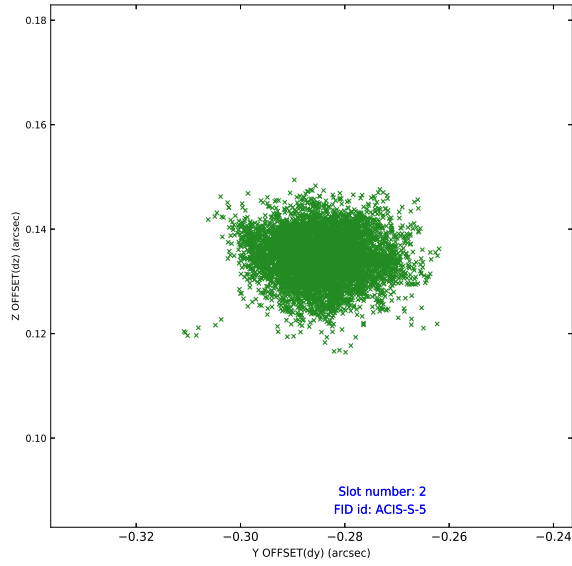
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



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	23.20379938519

A.2 Comments

Joint proposal with HST and NRAO.