

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20960 - L2 Version 2
Chandra X-Ray Center

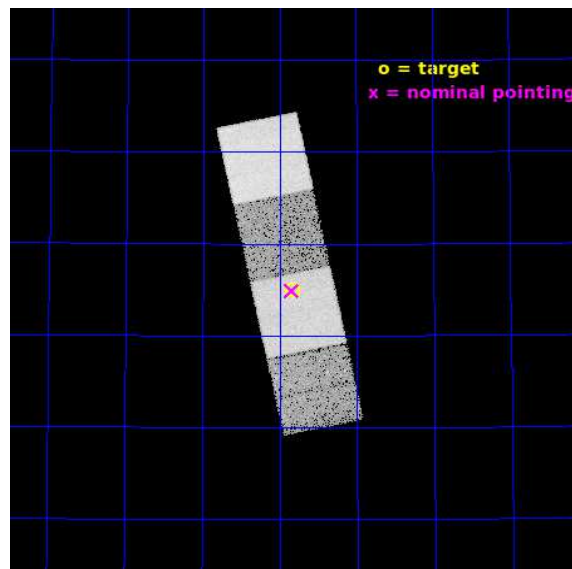
L2 Processing Date : Oct 24 2020

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1 Front

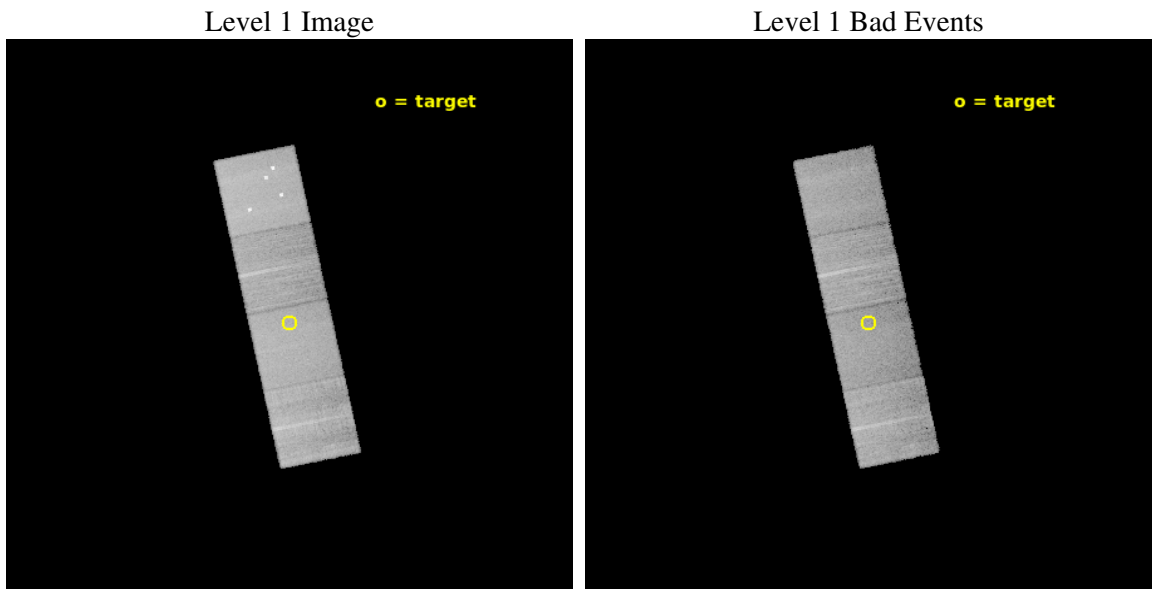
seq_num	703467	Sequence number
obs_id	20960	Observation id
title	Late-time X-ray and Radio Observations of the Unique Relativistic TDE Sw 1644+57	Proposal title
observer	Tarraneh Eftekhari	Principal investigator
object	Swift J164449.3+573451	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	251.207917	Observer's specified target RA [deg]
dec_targ	57.58325	Observer's specified target Dec [deg]
ra_nom	251.21021808788	Nominal RA [deg]
dec_nom	57.581781646	Nominal Dec [deg]
roll_nom	78.158841353198	Nominal Roll [deg]
revision	2	Processing version of data
ontime	14559.560871482	Sum of GTIs [s]
livetime	14369.329490103	Livetime [s]
ontime5	14559.519831538	Sum of GTIs [s]
ontime6	14559.478791475	Sum of GTIs [s]
ontime7	14559.560871482	Sum of GTIs [s]
ontime8	14559.437751532	Sum of GTIs [s]
l2events	156055	Number of level 2 events



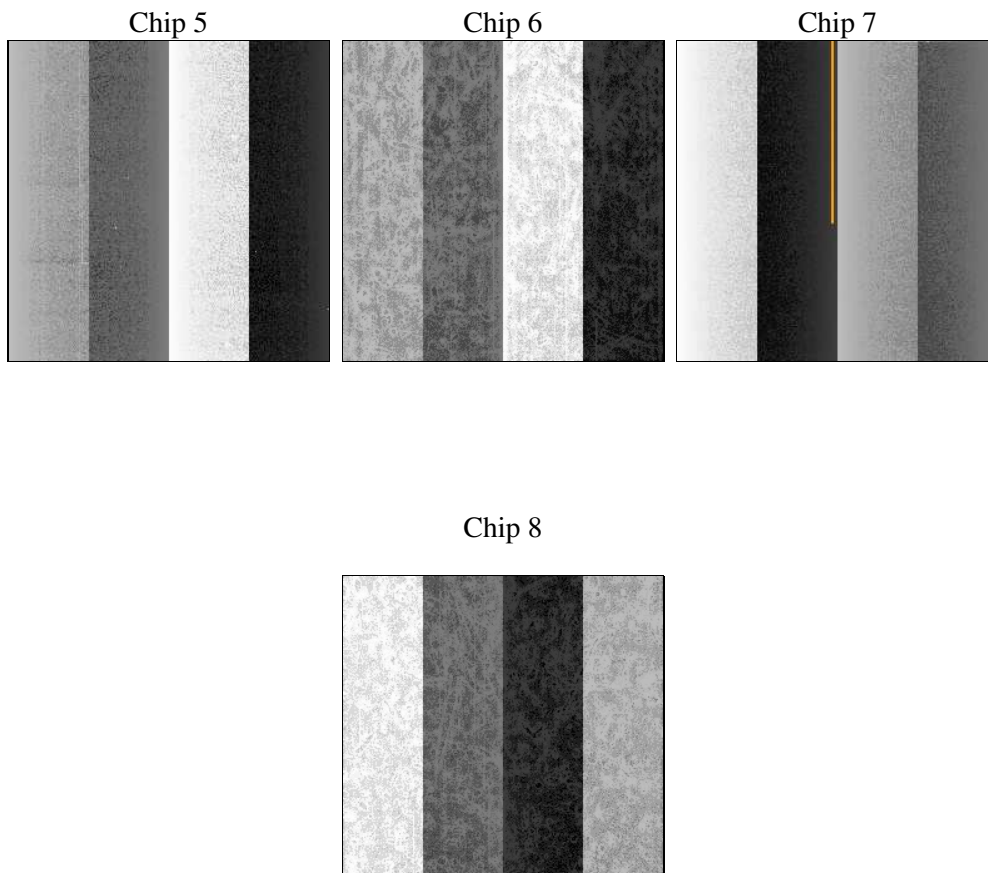
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	14500.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	14559.560871482	Sum of GTIs [s]
caldbver	4.9.3	 	ontime5	14559.519831538	Sum of GTIs [s]
date	2020-10-24T15:19:35	Date and time of file creation	ontime6	14559.478791475	Sum of GTIs [s]
revision	2	Processing version of data	ontime7	14559.560871482	Sum of GTIs [s]
			ontime8	14559.437751532	Sum of GTIs [s]
			l1events	559525	Number of level 1 events

2.1.4 Events

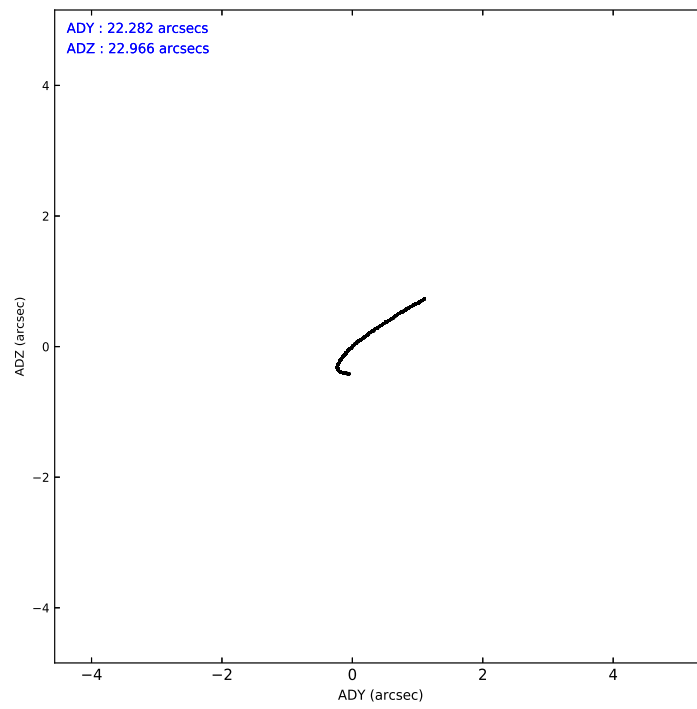
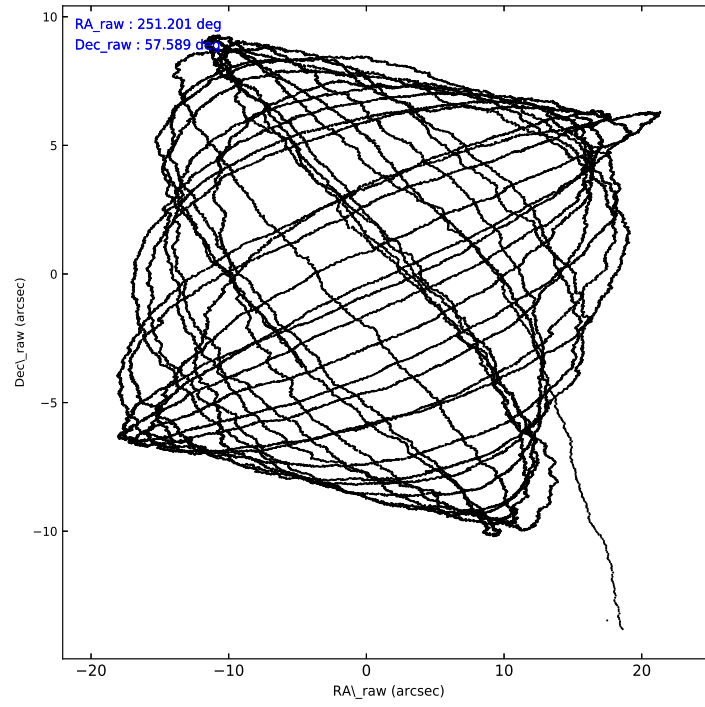
	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	176111	110131	136021	137262
rejected events	88213	98084	76649	102467
rejected %	50%	89%	56%	74%

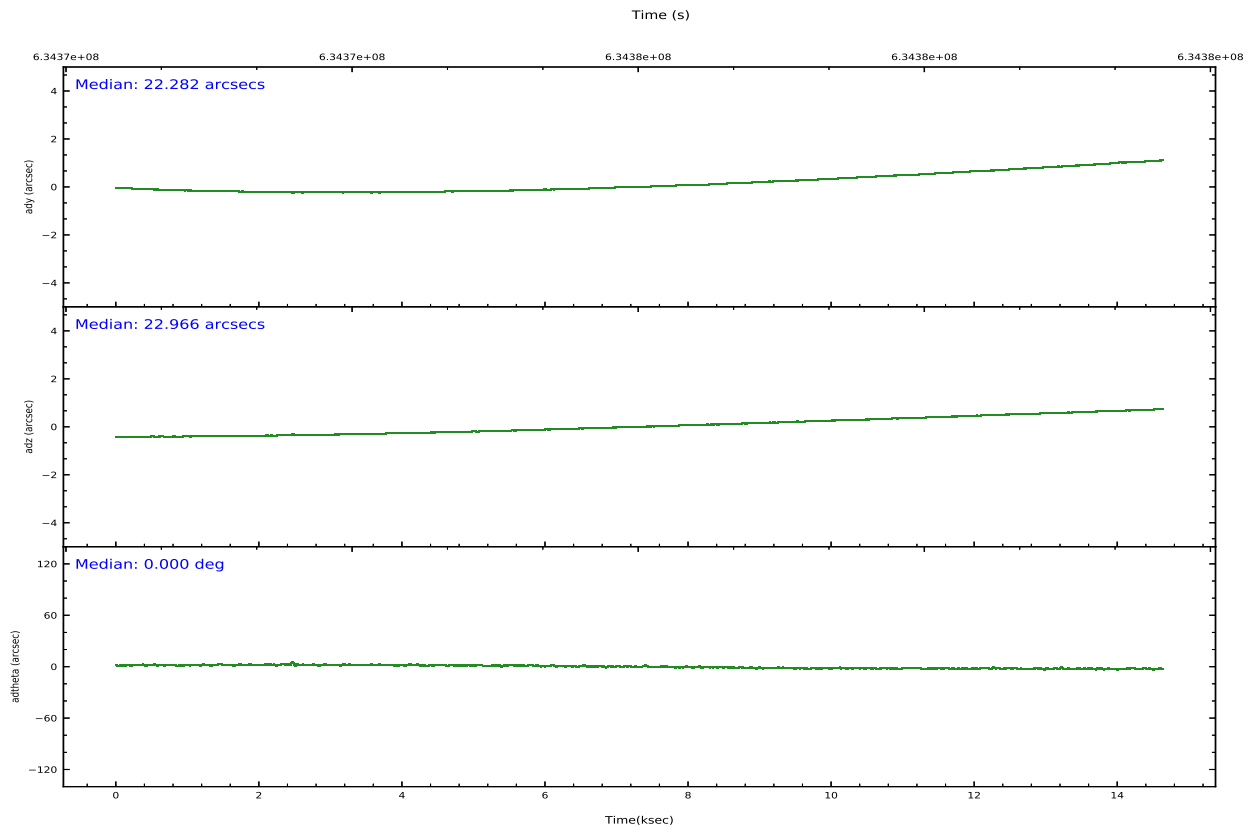
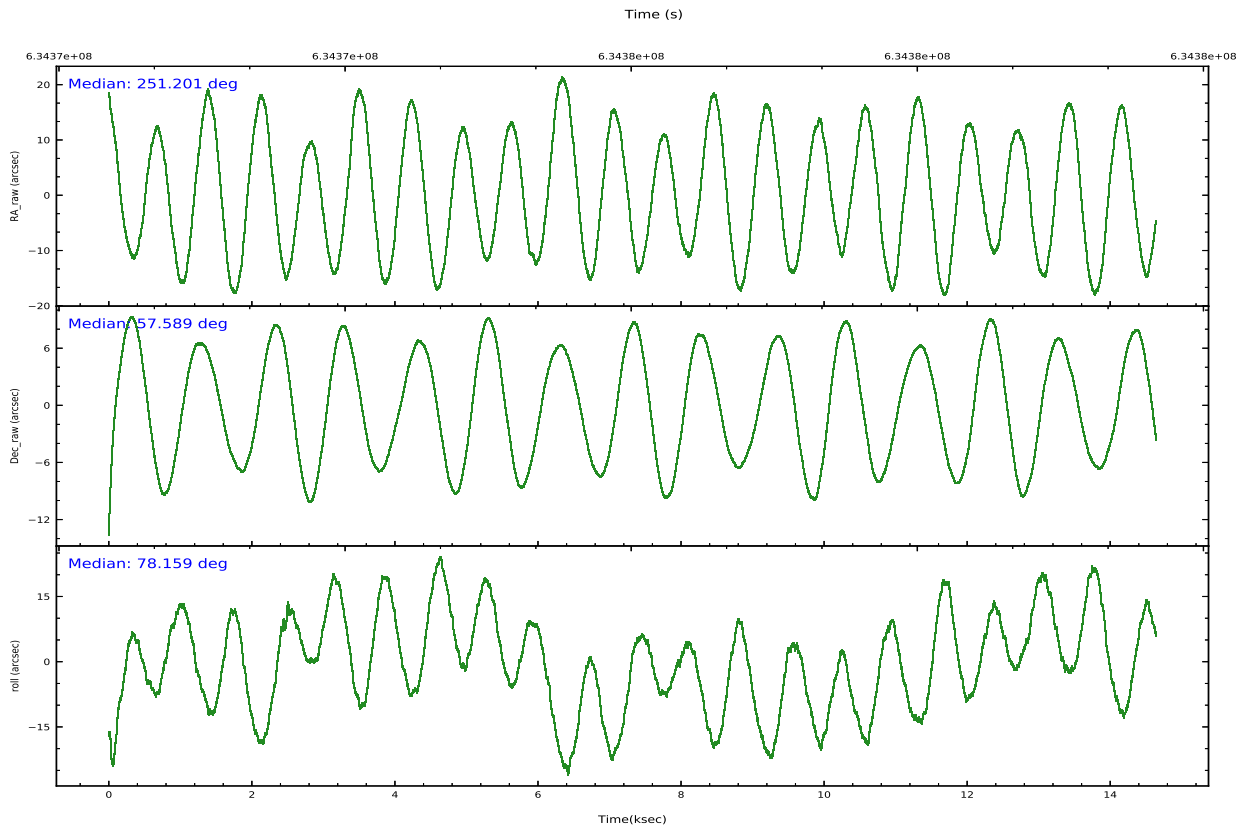
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	11680	3825	5013	10033
	6%	3%	3%	7%
grade 1 events	521	53	162	97
	0%	0%	0%	0%
grade 2 events	26407	2959	12499	8259
	14%	2%	9%	6%
grade 3 events	2365	1122	4684	3714
	1%	1%	3%	2%
grade 4 events	2220	1142	4630	3437
	1%	1%	3%	2%
grade 5 events	10761	4789	13480	7232
	6%	4%	9%	5%
grade 6 events	45264	3005	32574	9363
	25%	2%	23%	6%
grade 7 events	76893	93236	62979	95127
	43%	84%	46%	69%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-5678	ACIS-5678	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	251.217320	251.21021808788	Subarray requested	NONE	NONE
[deg] Pointing Dec	57.563448	57.581781646	Alternating exposures requested	N	N
[deg] Pointing Roll	77.992063	78.158841353198	[s] Primary exposure time	0.000000	3.1
[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)	634368838.184000	634367724.8288			
Observation start date	2018-02-07T05:32:49	2018-02-07T05:15:24			
[s] Observation end time (MET)	634383338.184000	634384209.90477			
Observation end date	2018-02-07T09:34:29	2018-02-07T09:50:09			
Read mode	TIMED	TIMED			

2.3 Aspect





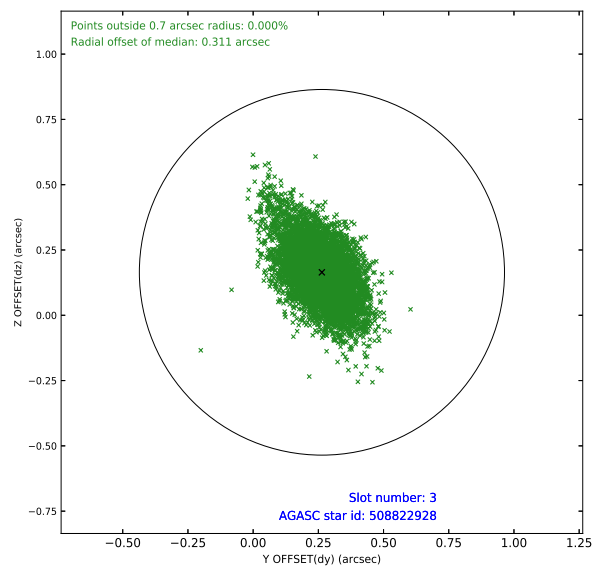
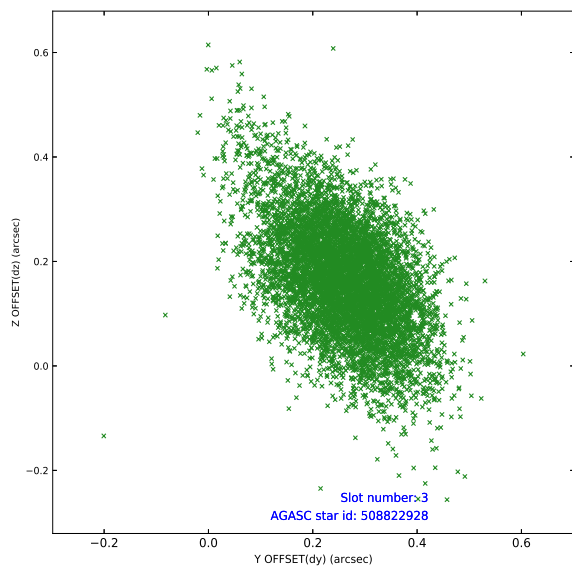
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.16	3570	1.000	0.266	-0.161	0.007	0.014	0.000000	0.000000	920.49	-1740
1	FID		ACIS-S-2	7.08	3572	1.000	0.009	-0.098	0.012	0.029	0.000000	0.000000	-775.50	-1745
2	FID		ACIS-S-5	7.19	3571	1.000	-0.299	0.265	0.012	0.023	0.000000	0.000000	-1829.18	157
3	GUIDE	used	508822928	8.44	7143	1.000	0.264	0.165	0.137	0.246	251.922984	56.892498	-2065.49	-1858
4	GUIDE	used	509214760	8.31	7136	1.000	-0.046	0.032	0.123	0.225	250.589992	57.556199	-272.56	1180
5	GUIDE	used	509223192	7.71	7141	1.000	-0.052	-0.199	0.114	0.202	251.320493	58.085113	1877.76	198
6	GUIDE	used	509227784	9.21	7132	1.000	-0.086	-0.002	0.155	0.255	250.982124	57.635413	160.30	497
7	GUIDE	used	508825920	9.71	7113	1.000	-0.072	0.018	0.267	0.448	250.175266	57.311975	-1291.93	1796

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2.4 Star Slots

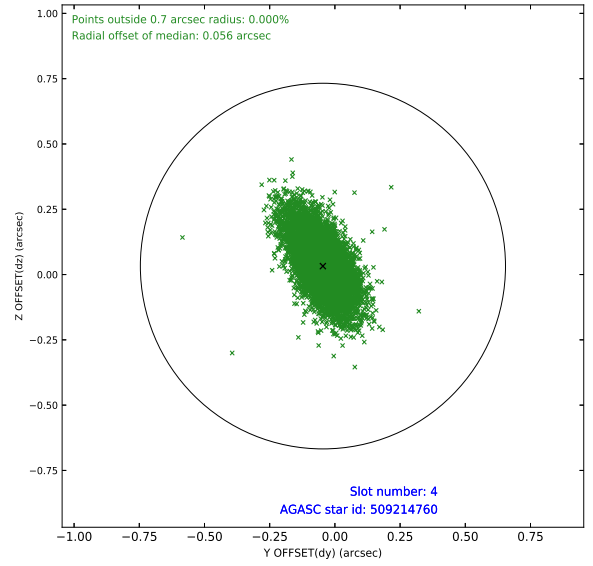
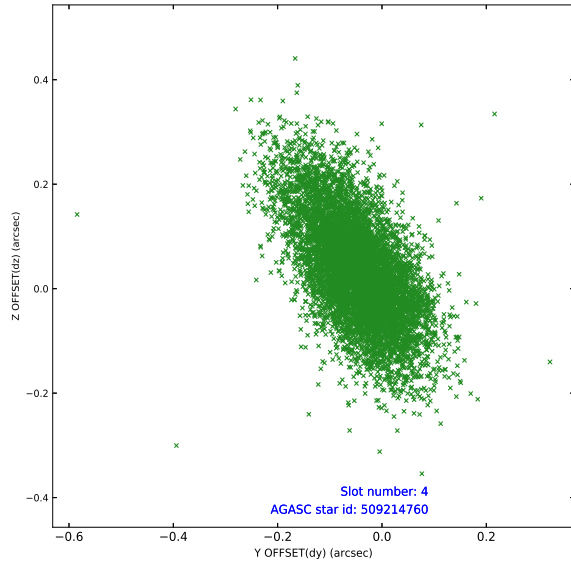
2.4.1 Slot 3



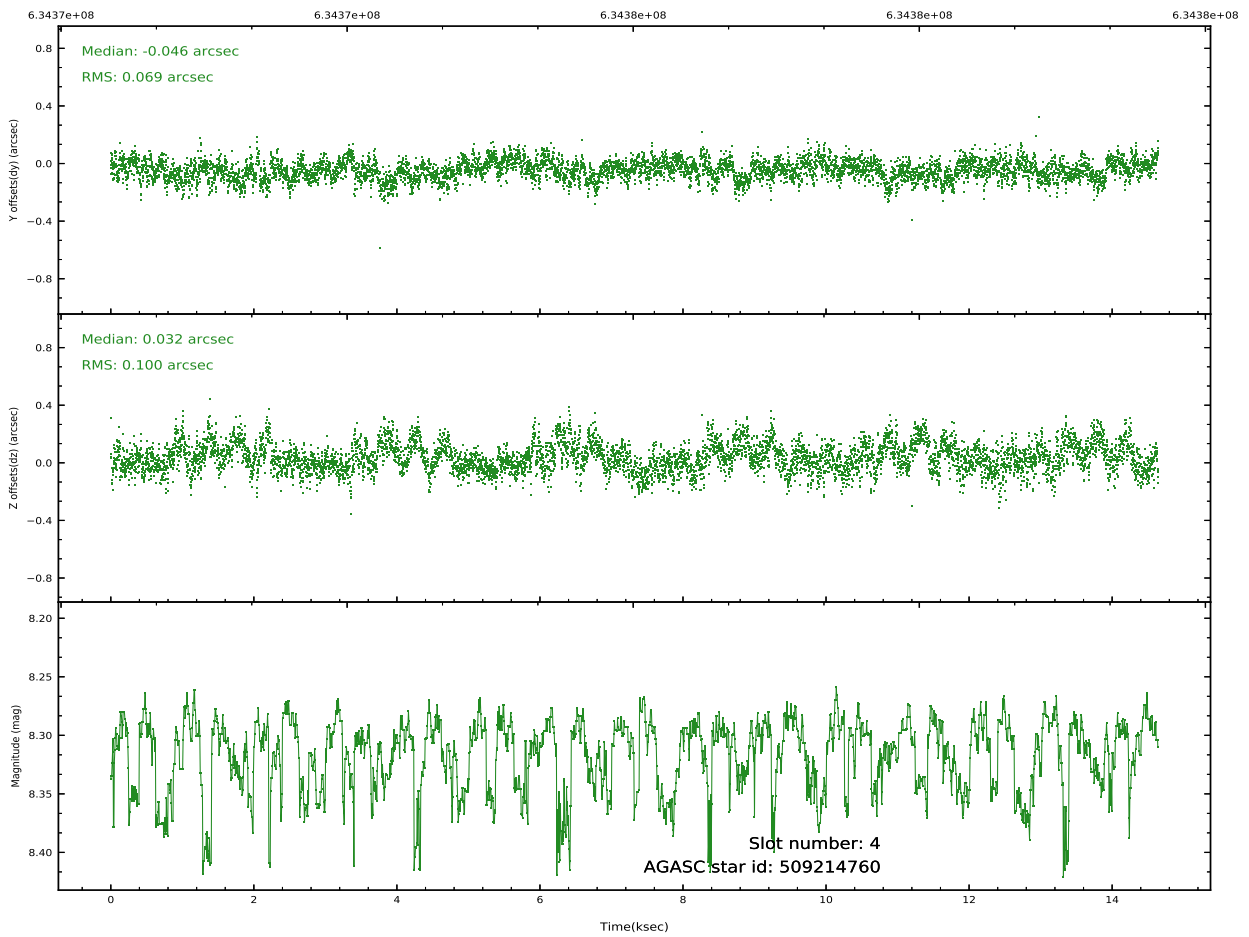
Time (s)



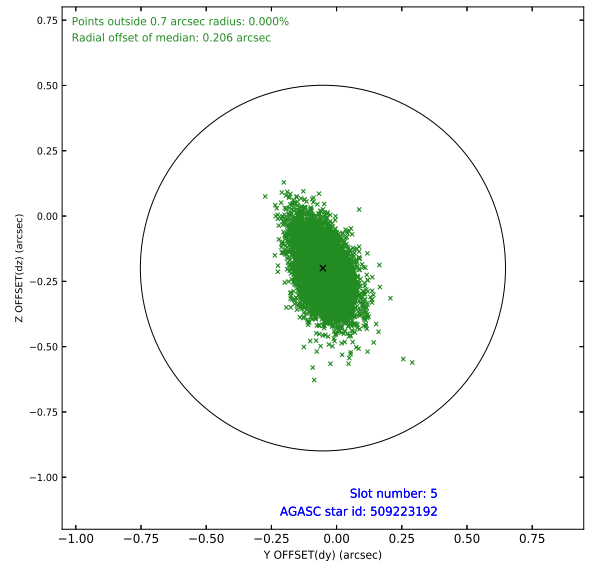
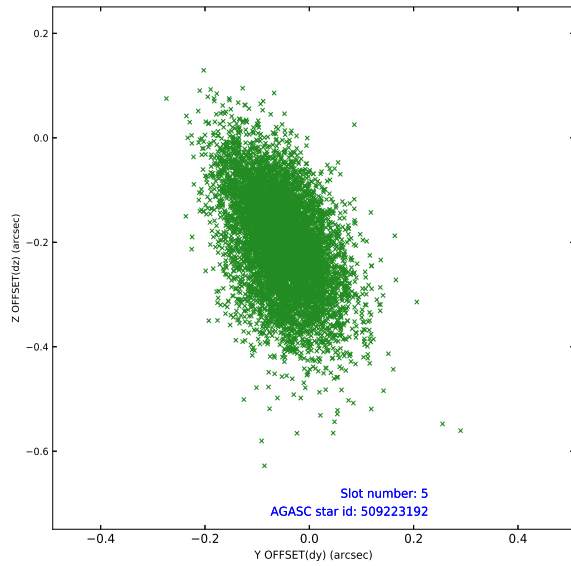
2.4.2 Slot 4



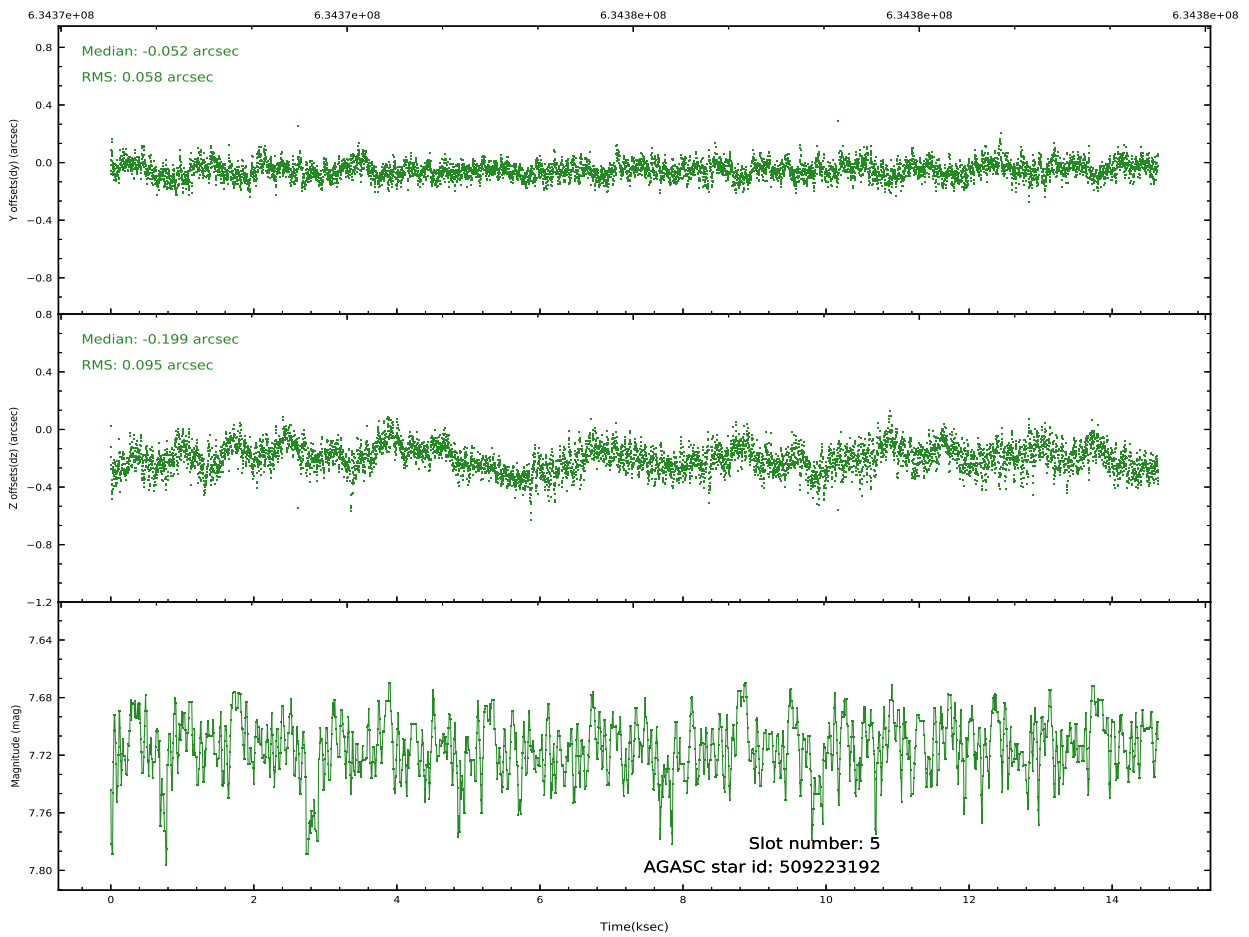
Time (s)



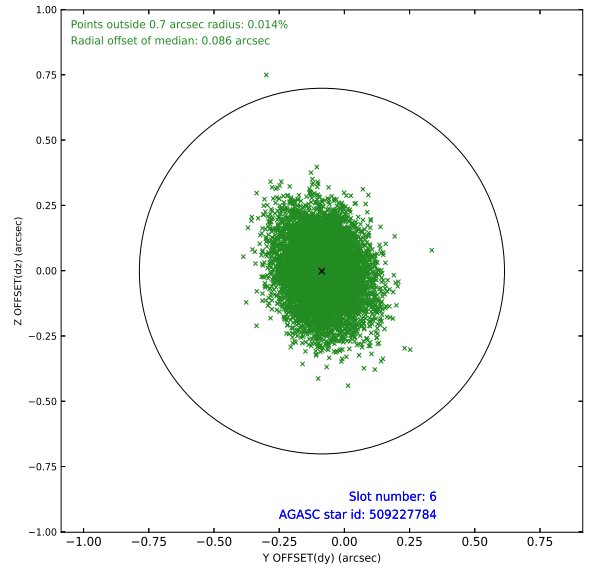
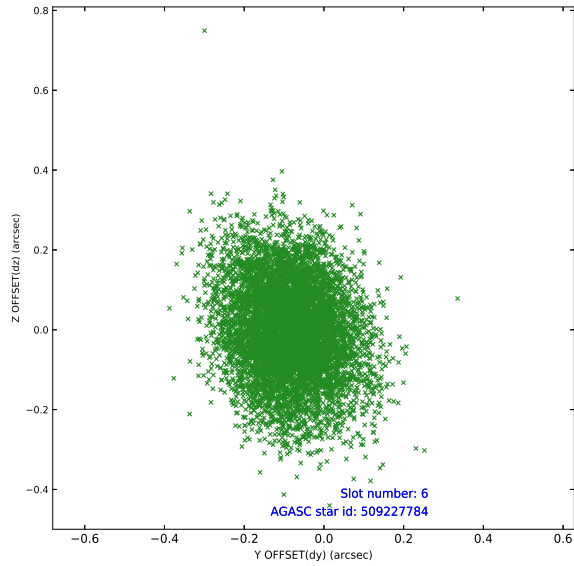
2.4.3 Slot 5



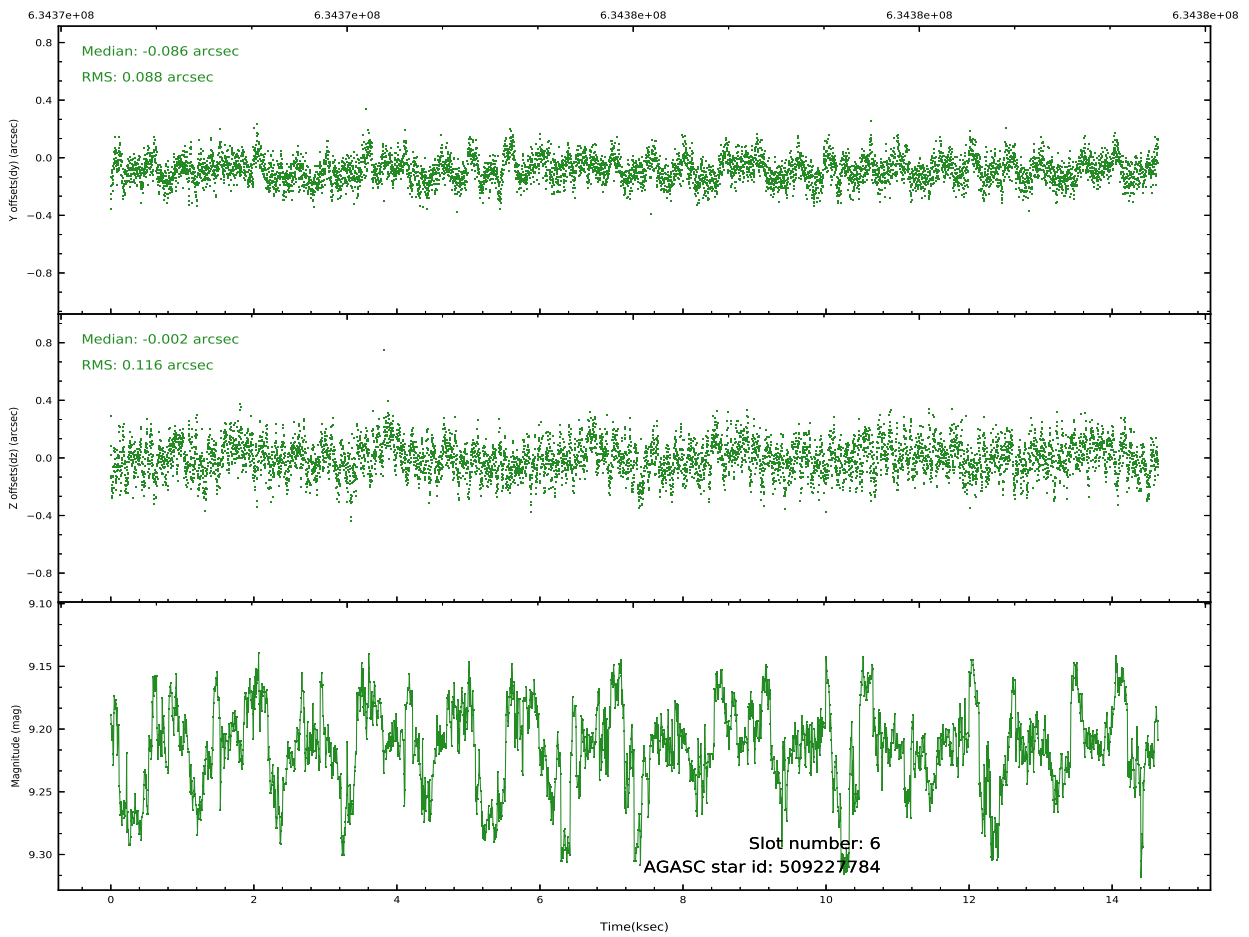
Time (s)



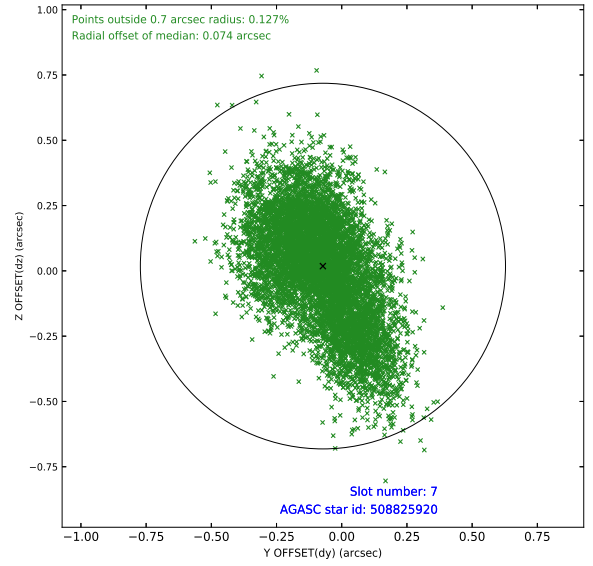
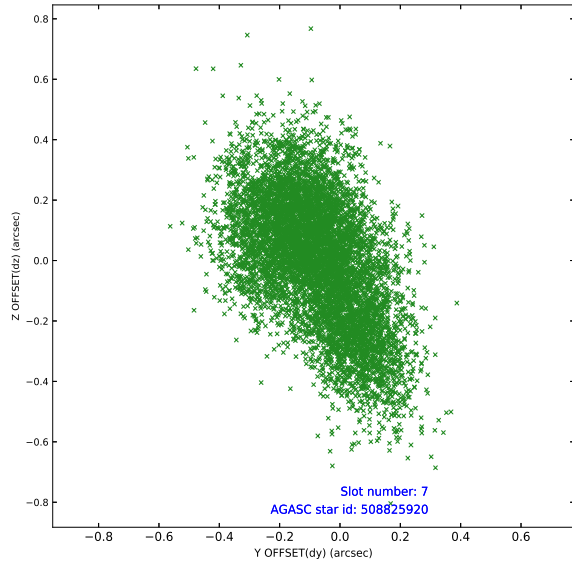
2.4.4 Slot 6



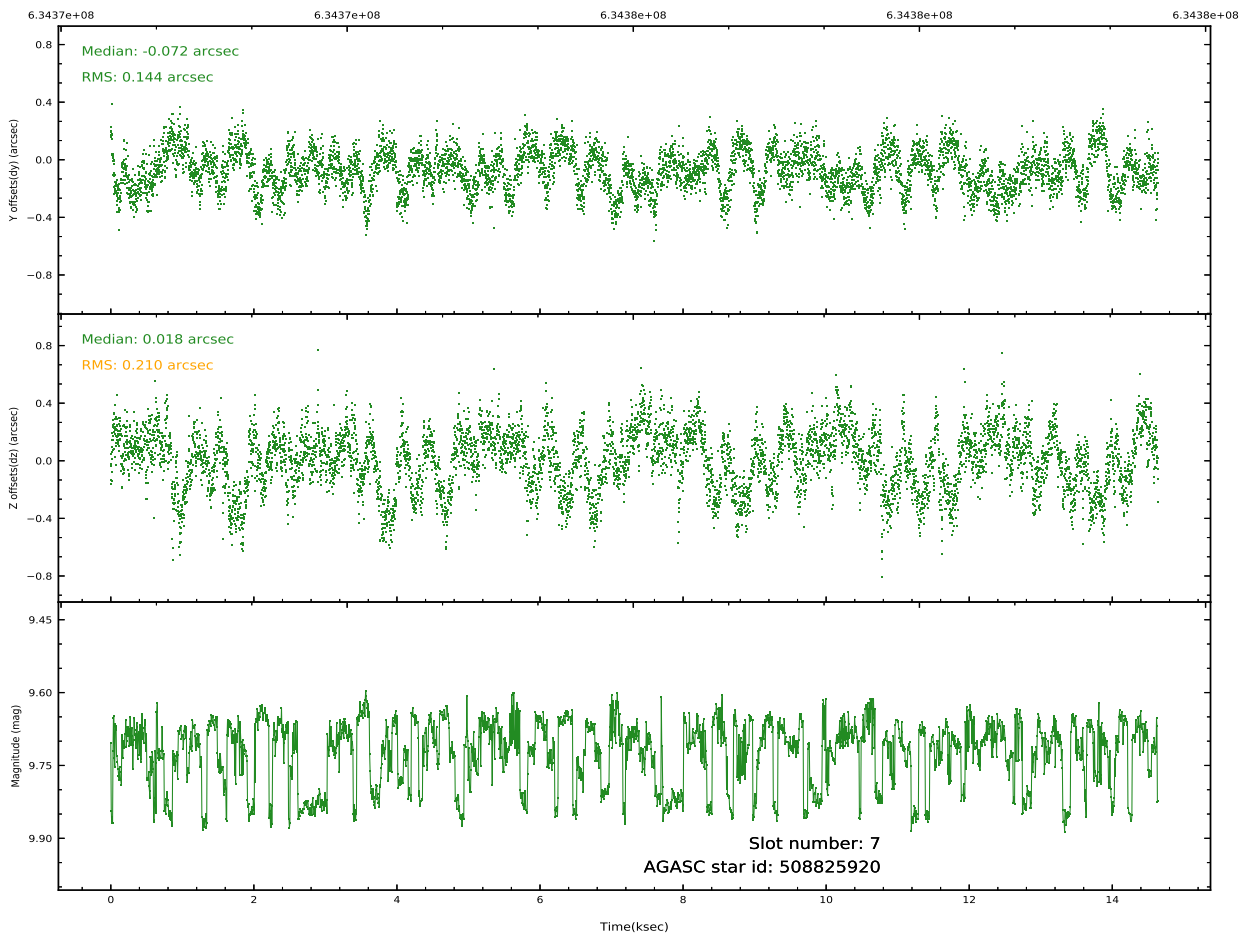
Time (s)



2.4.5 Slot 7

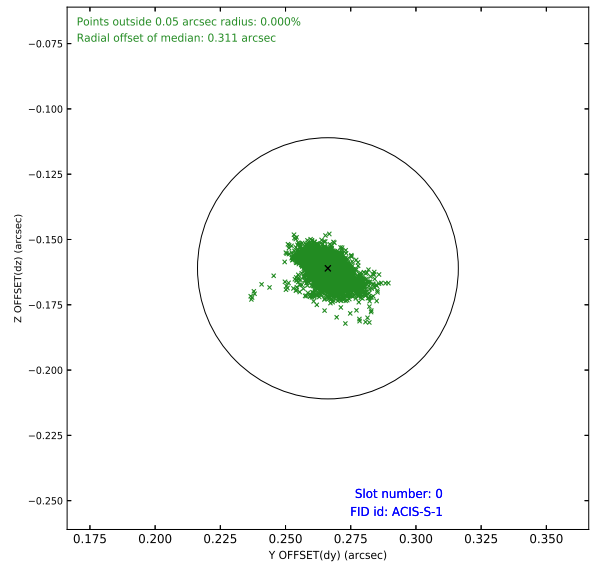
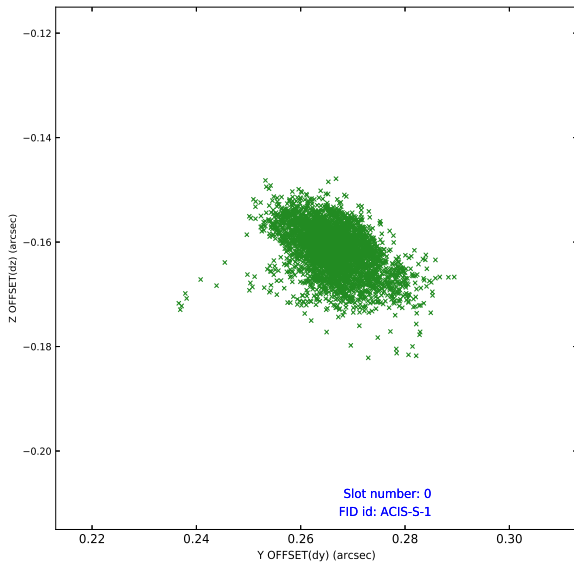


Time (s)

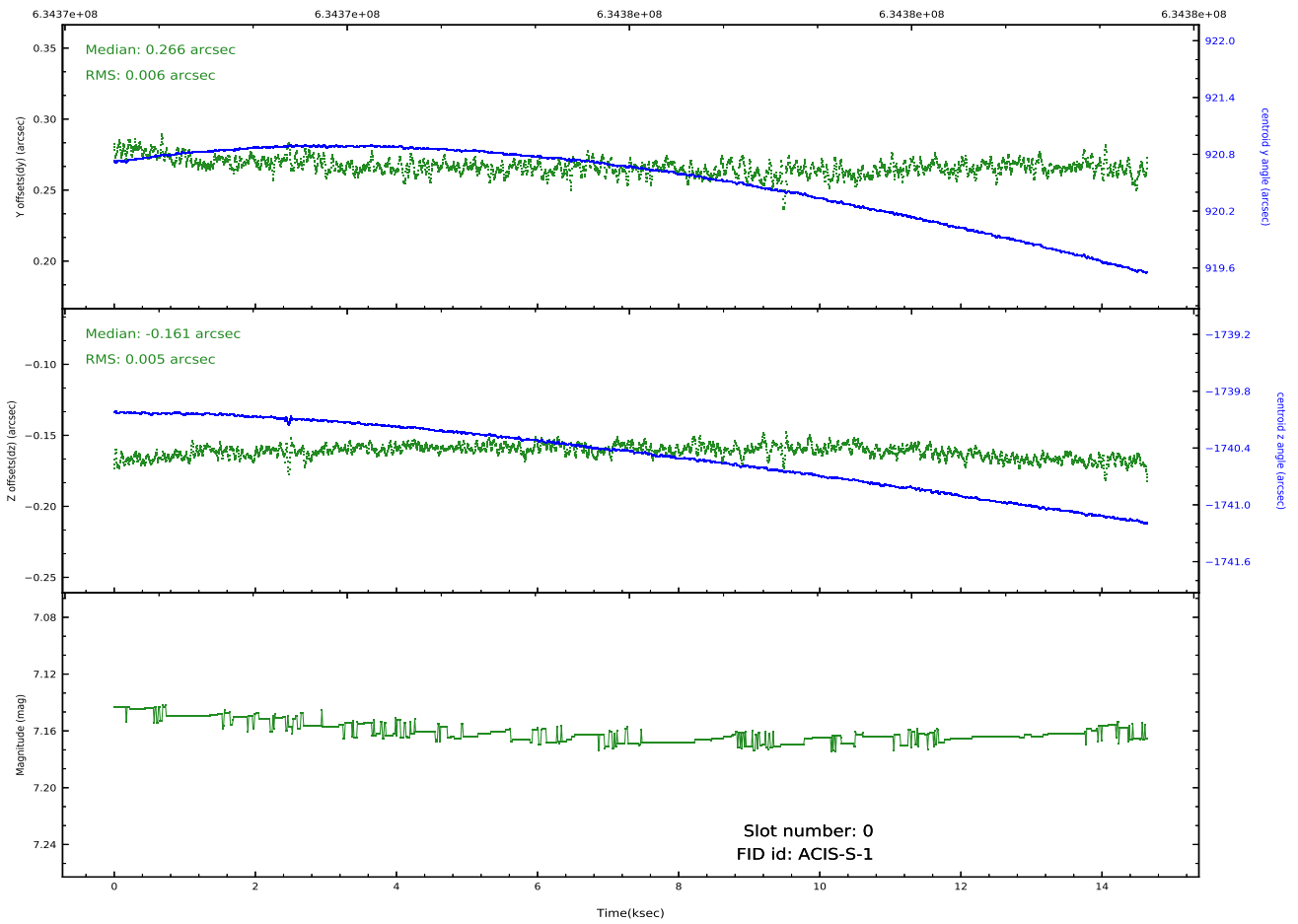


2.5 FID Slots

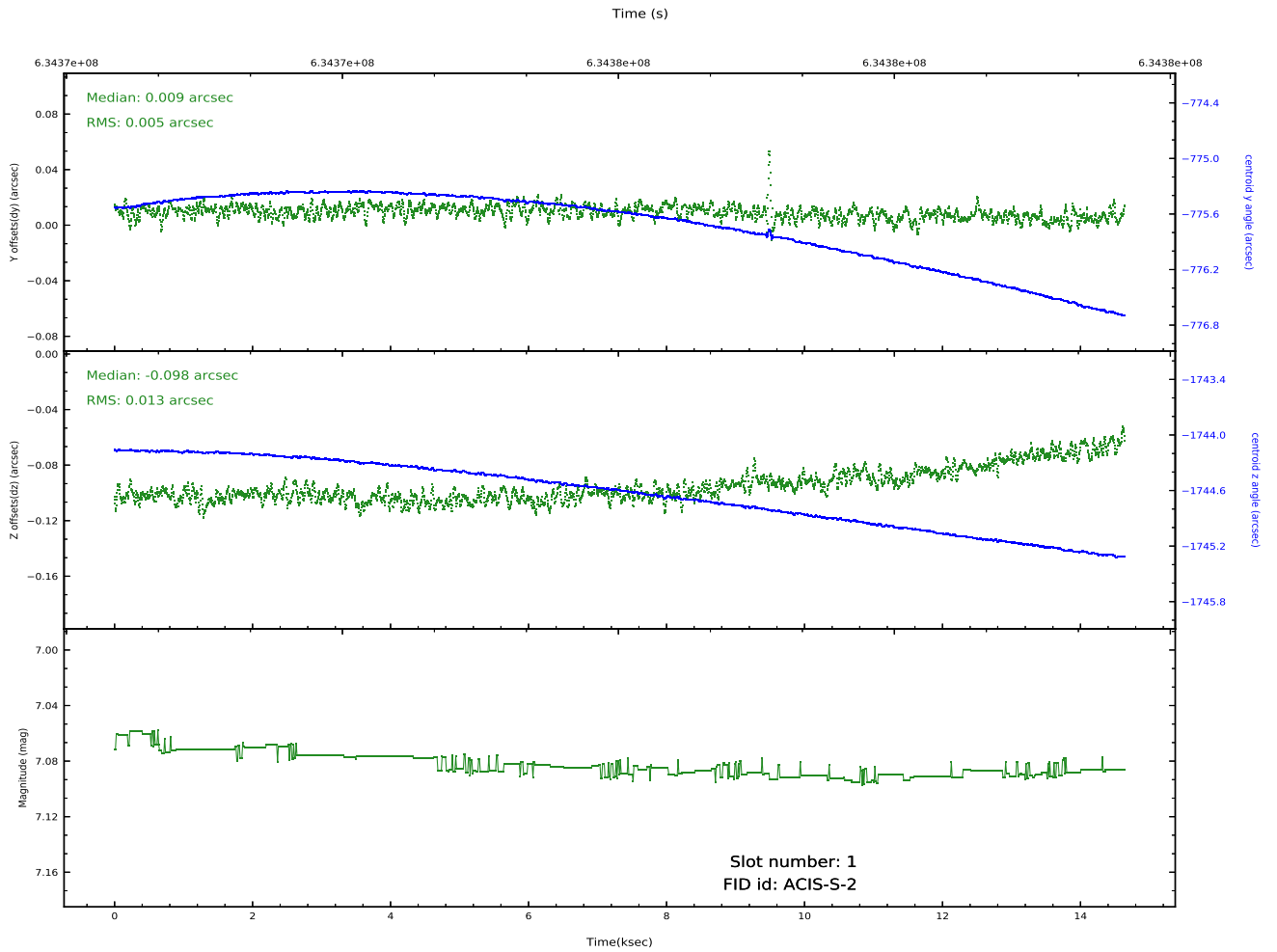
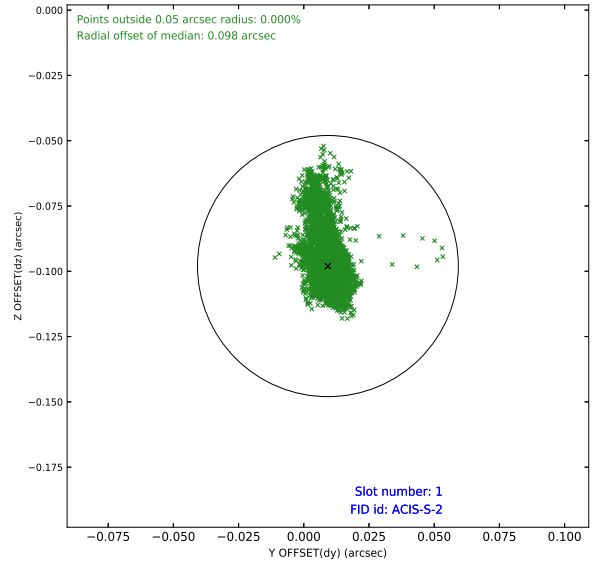
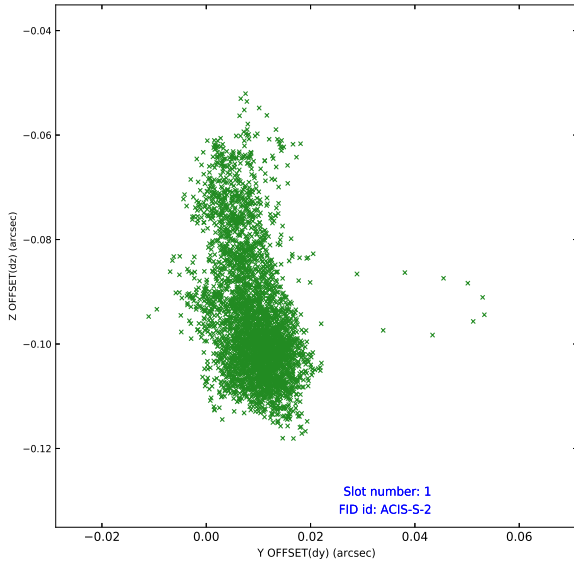
2.5.1 Slot 0



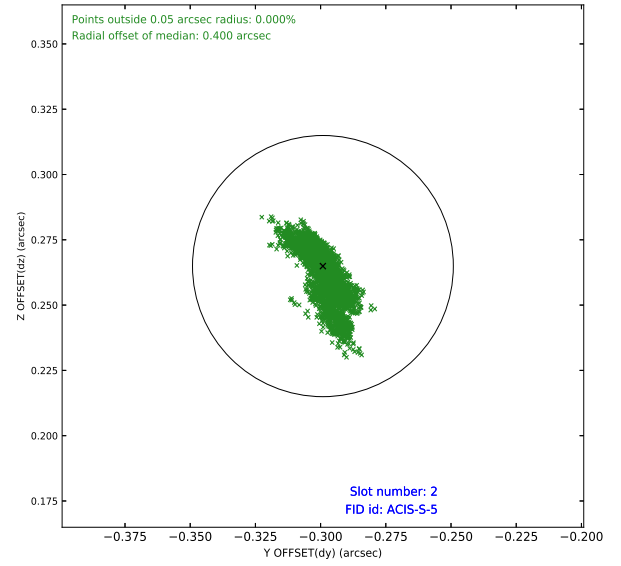
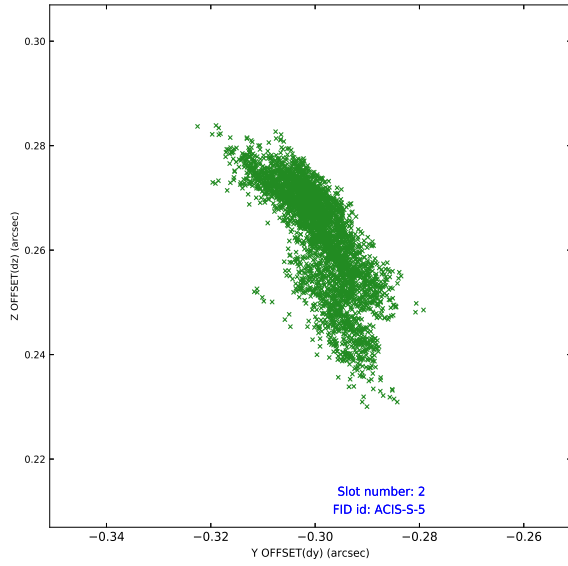
Time (s)



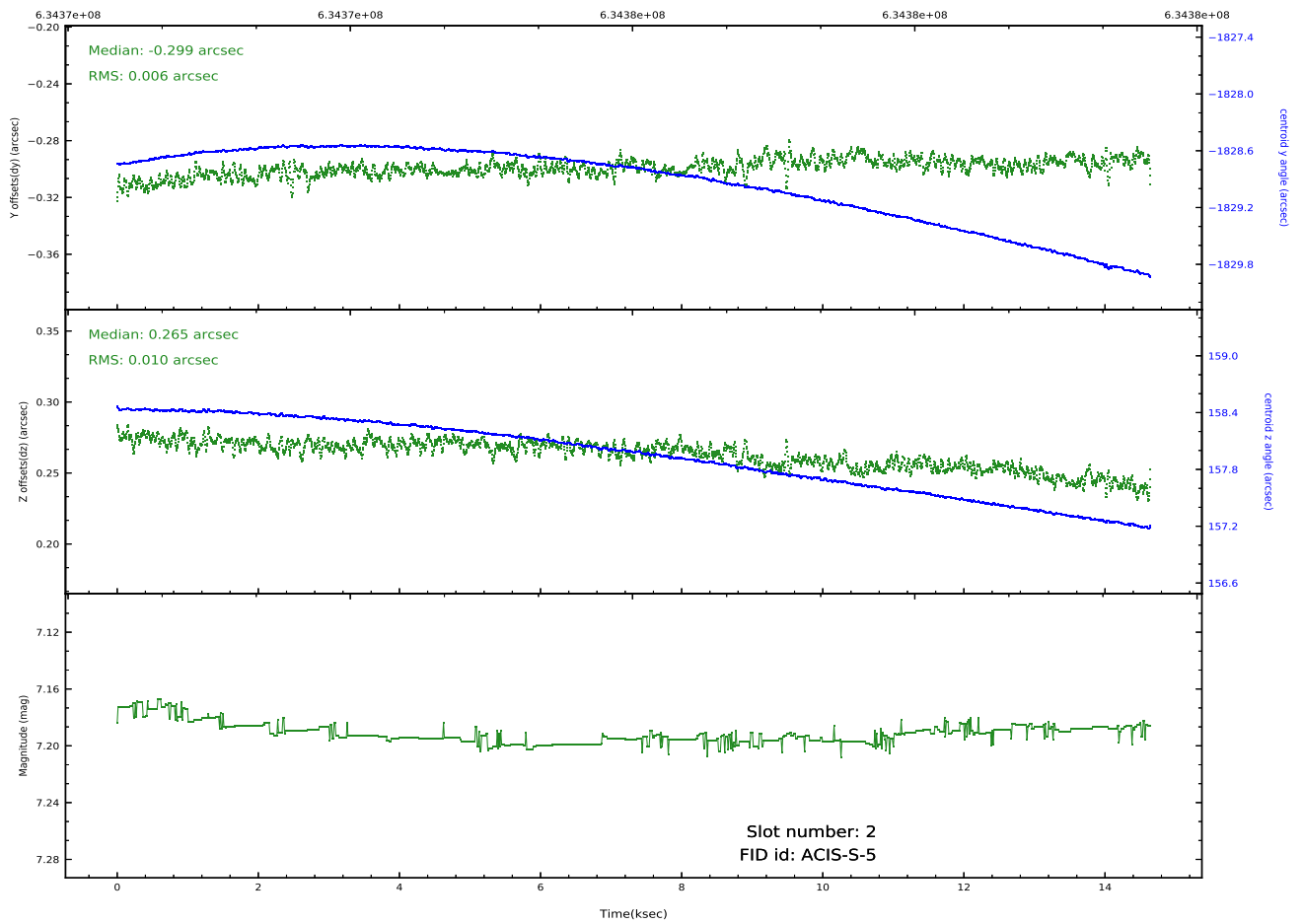
2.5.2 Slot 1



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	14.559560871243

A.2 Comments

Joint proposal with NRAO.