

V&V Reference Report

L2 ASCDS Version : 10.6.4

Observation 21665 - L2 Version 1
Chandra X-Ray Center

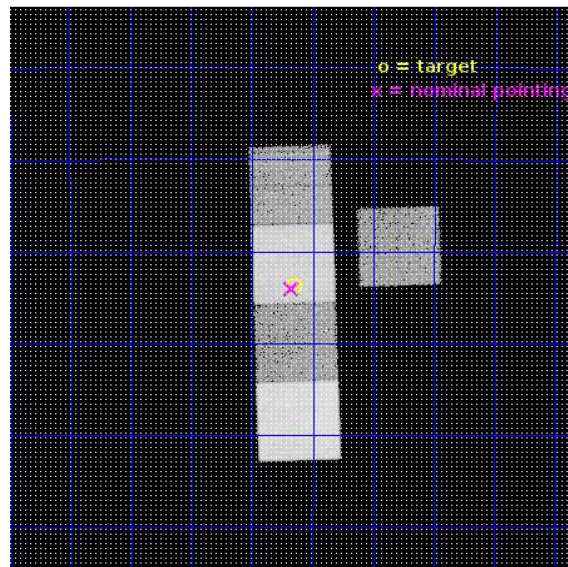
L2 Processing Date : Aug 15 2018

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1 Front

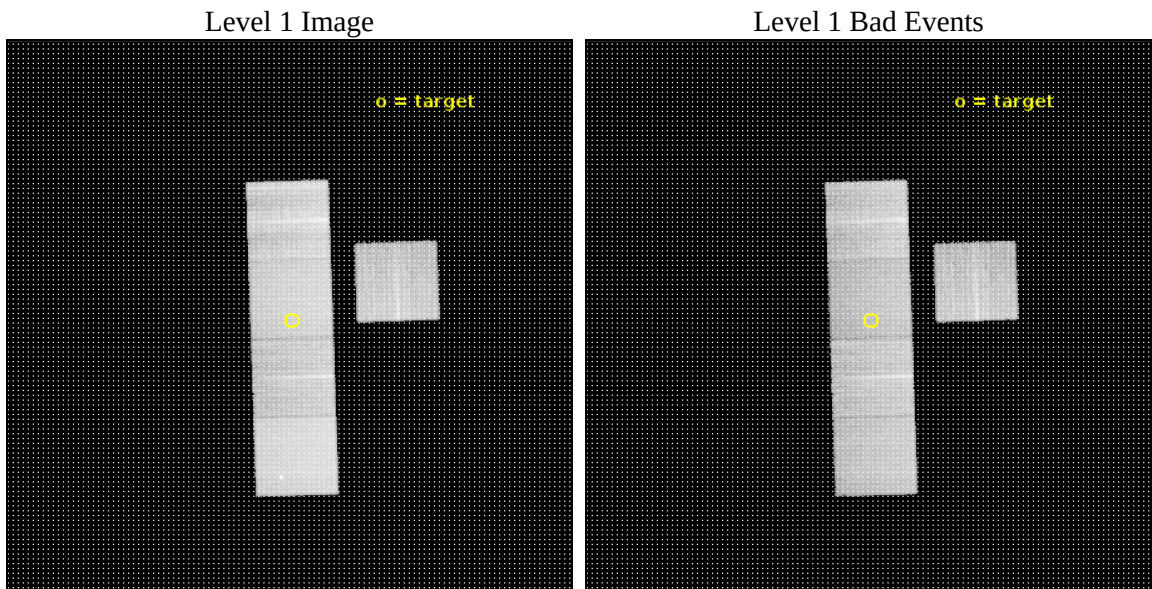
seq_num	502989	Sequence number
obs_id	21665	Observation id
title	Source of Energy and pre-explosion progenitor evolution of Super-luminous Supernovae	Proposal title
observer	Raffaella Margutti	Principal investigator
object	SN2018bsz	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	242.413333	Observer's specified target RA [deg]
dec_targ	-32.062561	Observer's specified target Dec [deg]
ra_nom	242.41901940348	Nominal RA [deg]
dec_nom	-32.067765311657	Nominal Dec [deg]
roll_nom	268.15965695811	Nominal Roll [deg]
revision	1	Processing version of data
ontime	21029.32488215	Sum of GTIs [s]
livetime	20754.561271001	Livetime [s]
ontime3	21029.201762199	Sum of GTIs [s]
ontime5	21029.283842206	Sum of GTIs [s]
ontime6	21022.960811615	Sum of GTIs [s]
ontime7	21029.32488215	Sum of GTIs [s]
ontime8	21029.160722136	Sum of GTIs [s]
l2events	255567	Number of level 2 events



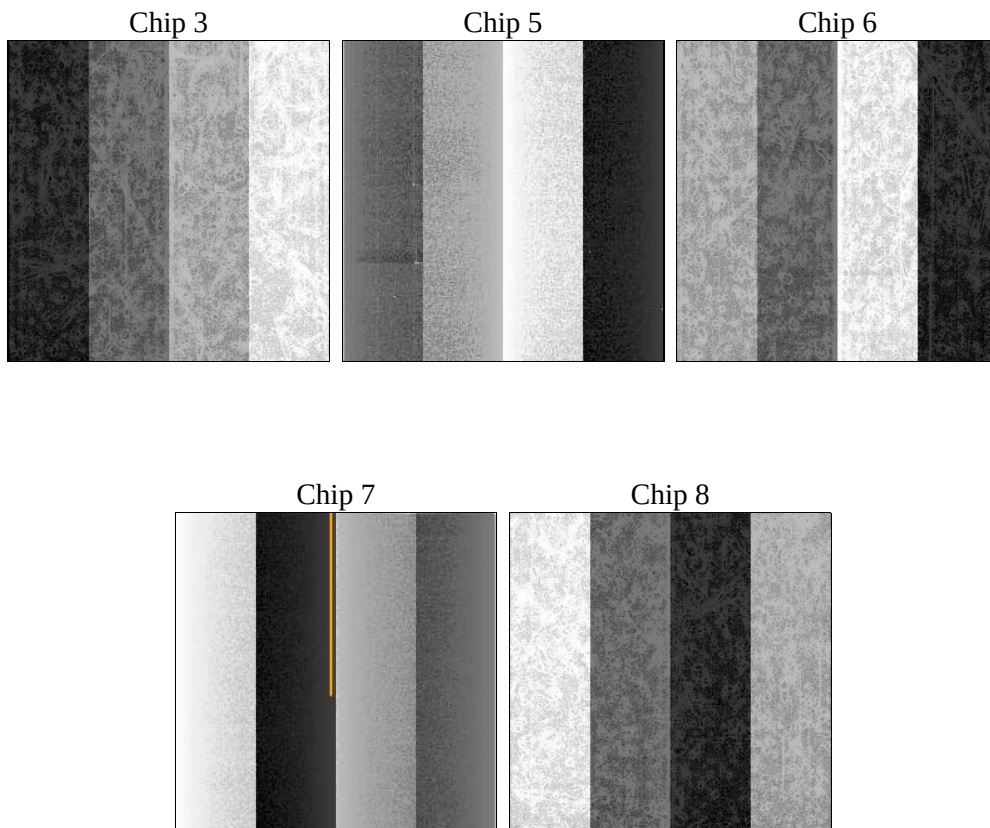
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	20977.715000	[s] Scheduled observation exposure time
ascdsver	10.6.4	Processing system revision	ontime	21029.32488215	Sum of GTIs [s]
caldsver	4.7.8	 	ontime3	21029.201762199	Sum of GTIs [s]
date	2018-08-15T20:00:07	Date and time of file creation	ontime5	21029.283842206	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	21022.960811615	Sum of GTIs [s]
			ontime7	21029.32488215	Sum of GTIs [s]
			ontime8	21029.160722136	Sum of GTIs [s]
			l1events	989262	Number of level 1 events

2.1.4 Events

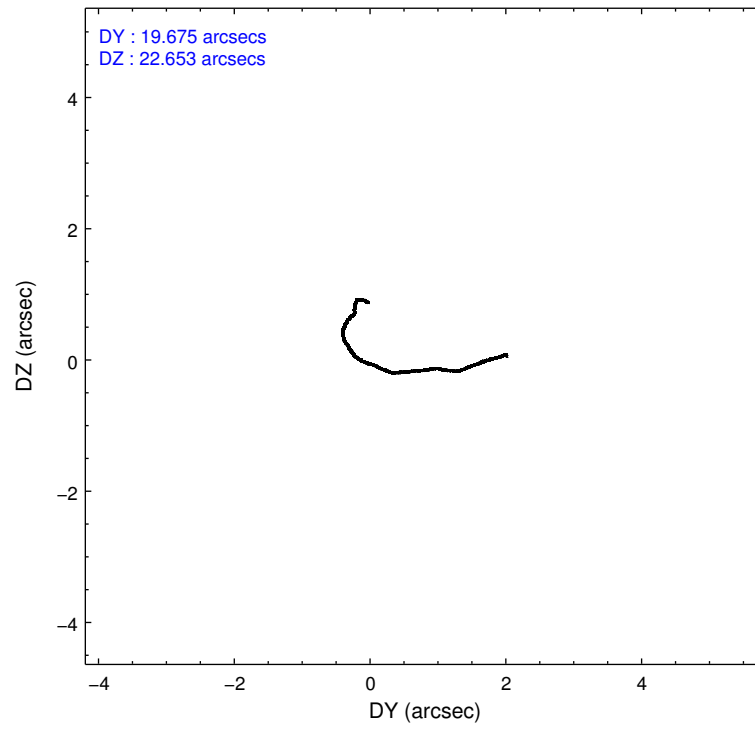
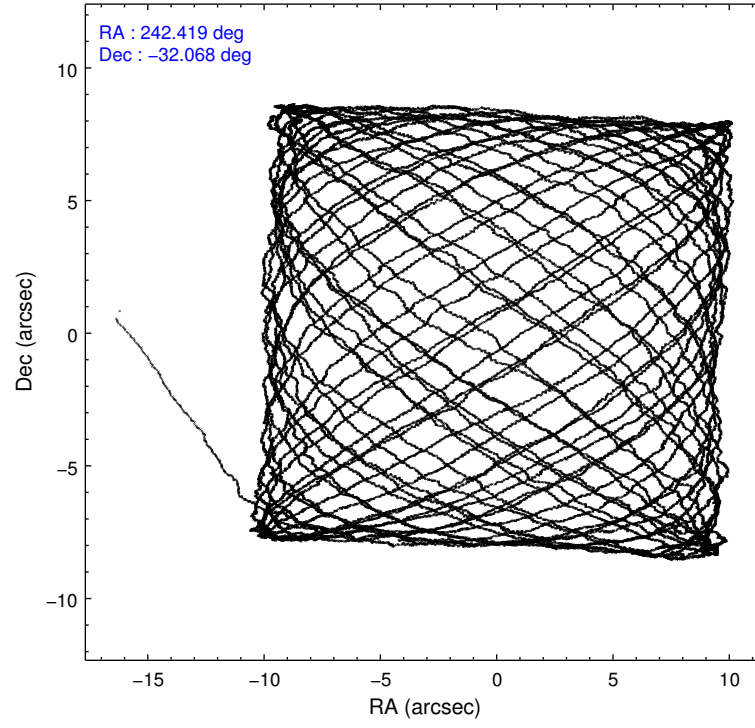
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	154374	252565	164647	204768	212908
rejected events	137351	132367	145963	115222	153256
rejected %	88%	52%	88%	56%	71%

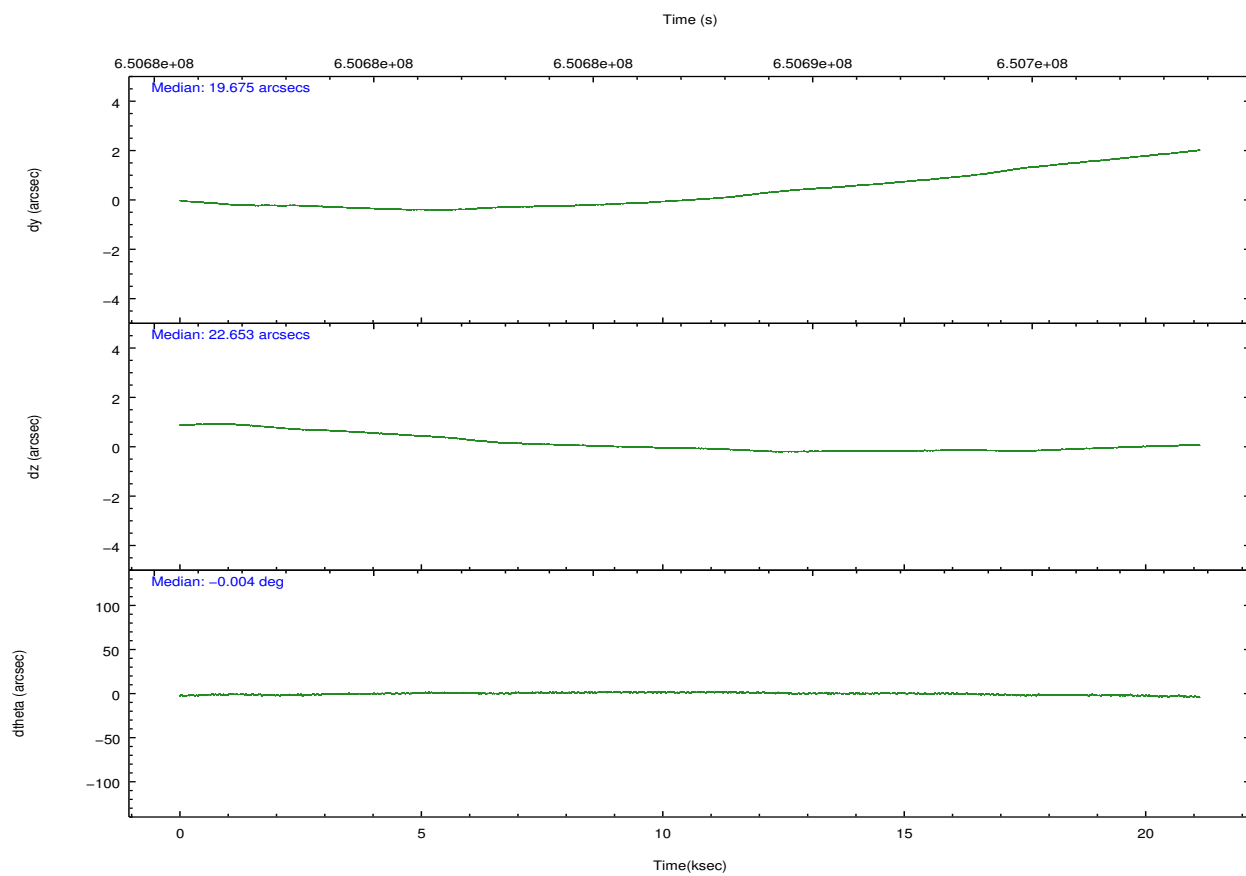
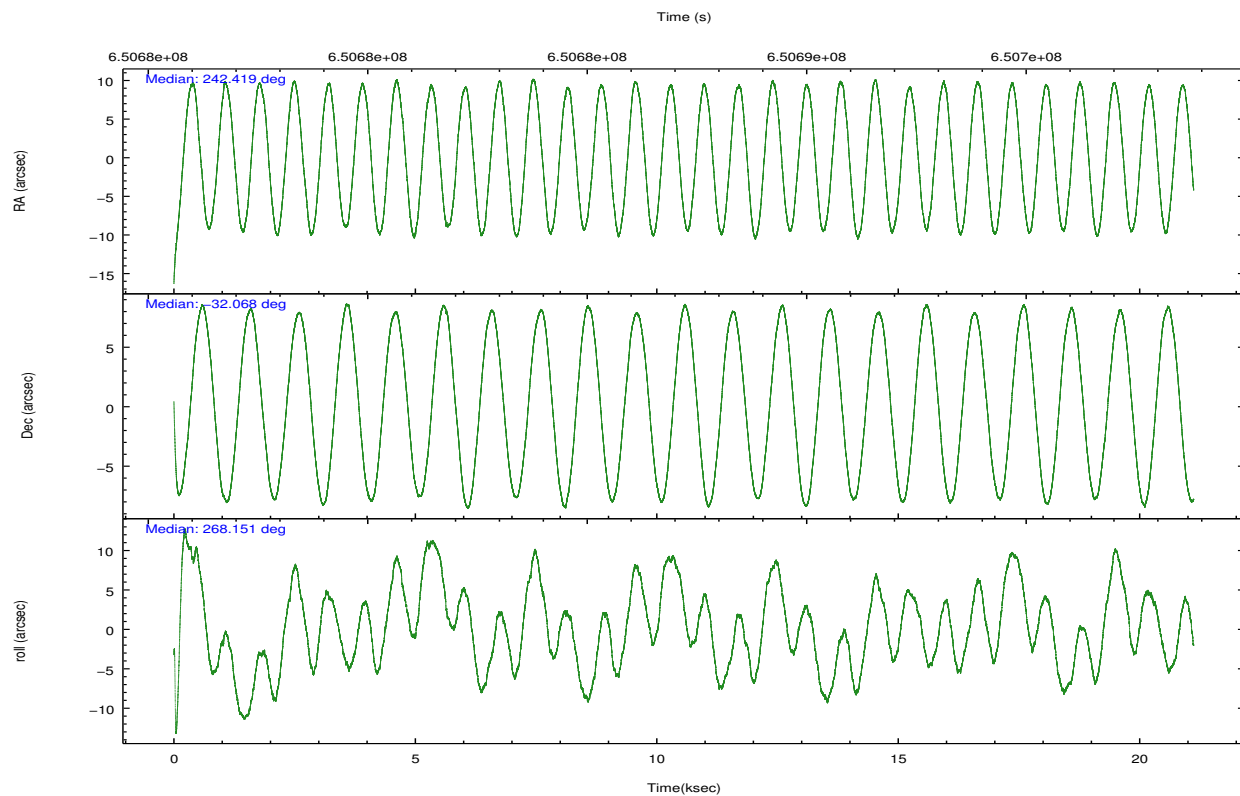
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	6353	7353	6442	7664	17659
	4%	2%	3%	3%	8%
grade 1 events	89	590	88	328	199
	0%	0%	0%	0%	0%
grade 2 events	3584	38356	4317	19302	14422
	2%	15%	2%	9%	6%
grade 3 events	1790	4112	1828	7194	6102
	1%	1%	1%	3%	2%
grade 4 events	1782	3720	1743	7055	5764
	1%	1%	1%	3%	2%
grade 5 events	7451	18045	7247	20535	11313
	4%	7%	4%	10%	5%
grade 6 events	3519	66690	4361	48355	15722
	2%	26%	2%	23%	7%
grade 7 events	129806	113699	138621	94335	141727
	84%	45%	84%	46%	66%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-35678	ACIS-35678	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	242.403351	242.4190194034833	CCD I2 on	N	N
[deg] Pointing Dec	-32.043737	-32.06776531165716	CCD I3 on	O1	Y
[deg] Pointing Roll	267.994699	268.1596569581143	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	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	Y	Y
[s] Observation start time (MET)	650676756.184000	650675629.03009	CCD S5 on	N	N
Observation start date	2018-08-14T23:31:27	2018-08-14T23:13:49	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	650697734.184000	650698508.05645	On-chip summing requested	N	N
Observation end date	2018-08-15T05:21:05	2018-08-15T05:35:08	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



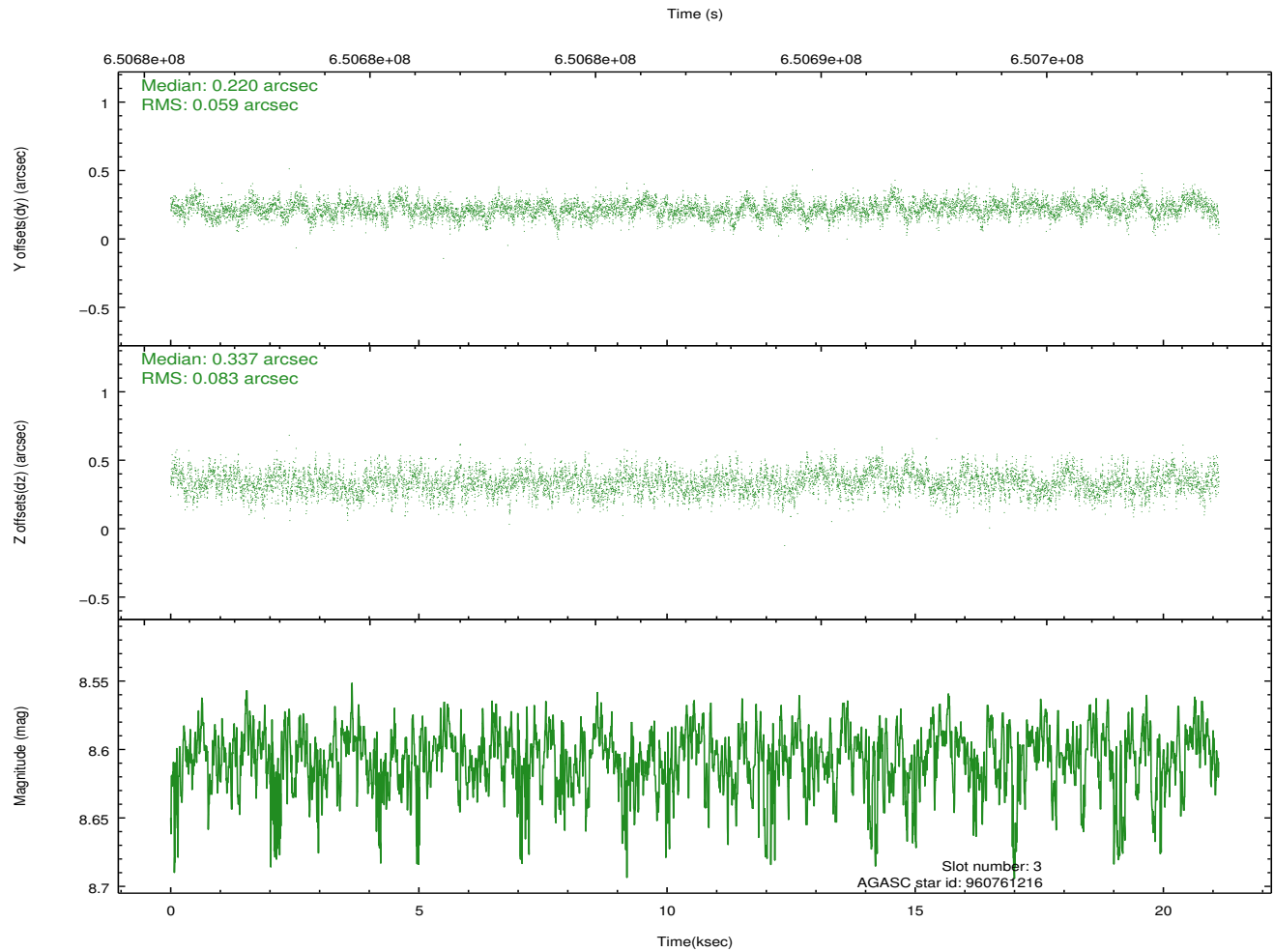
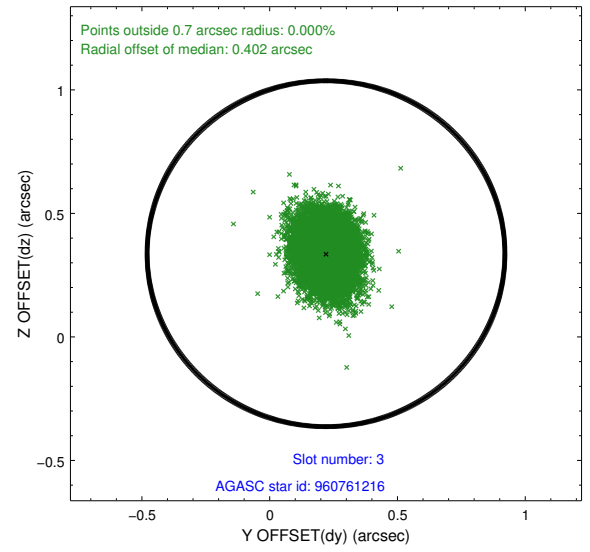
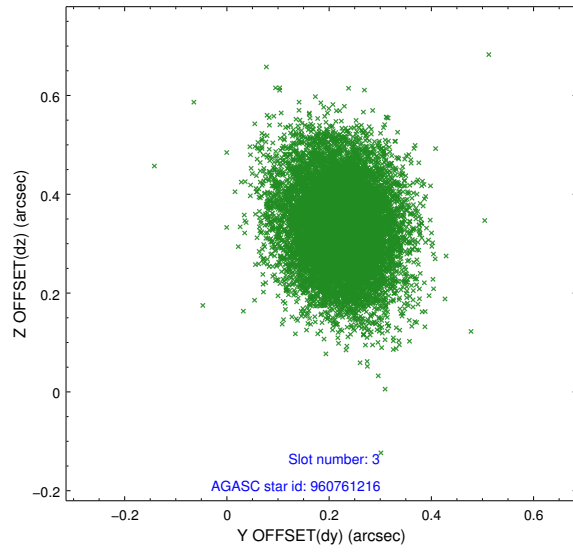


Slot Statistics

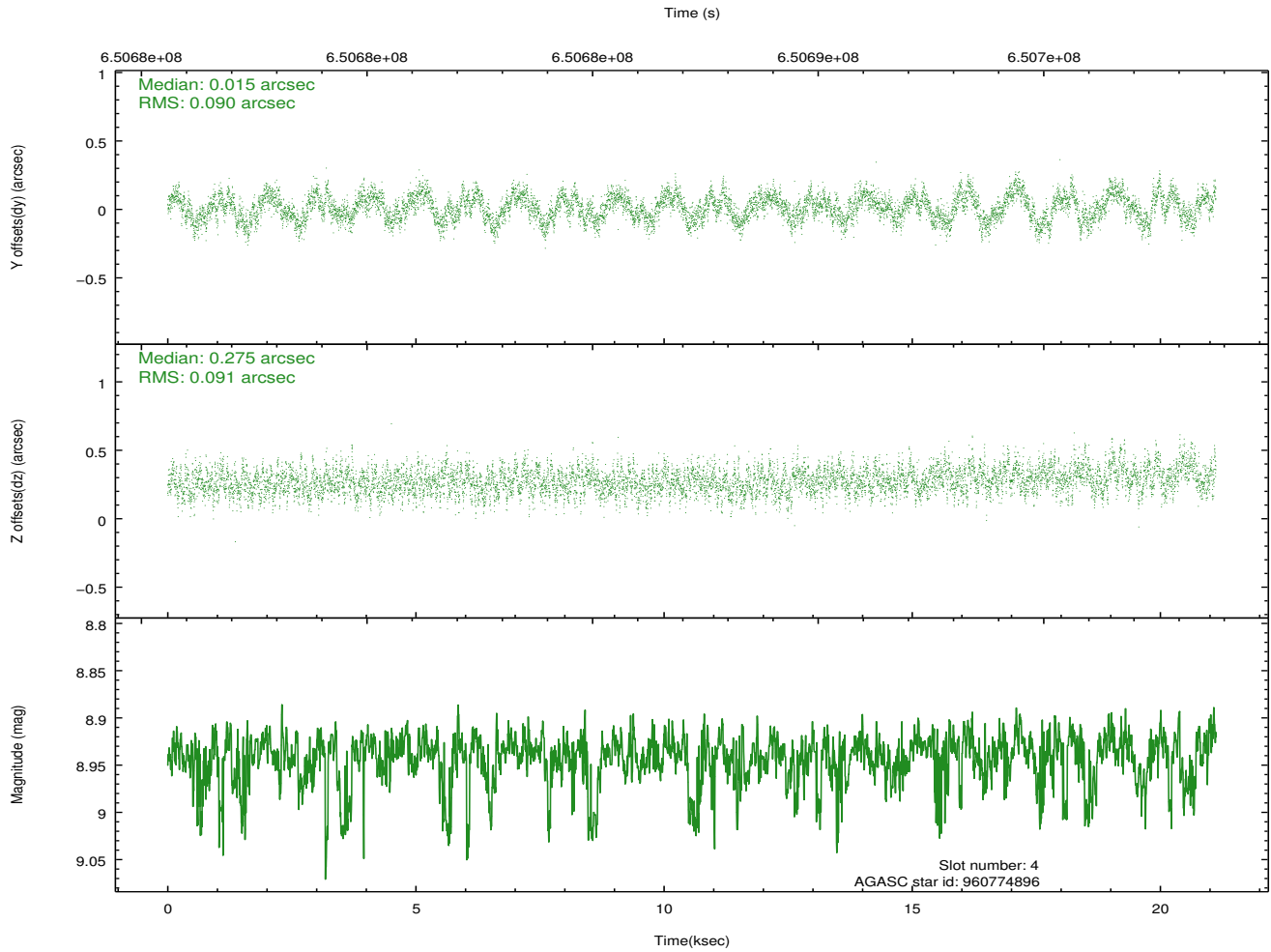
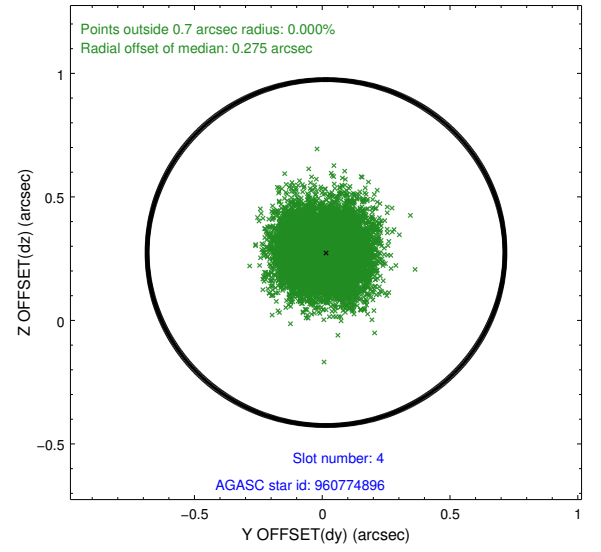
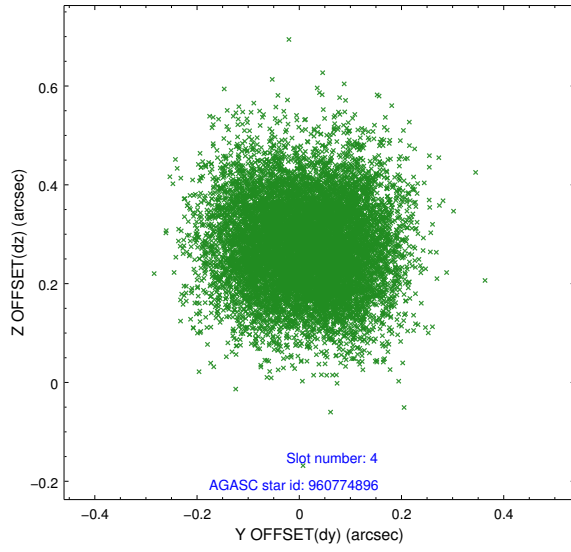
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.05	5151	1.000	-0.233	-0.156	0.012	0.023	0.000000	0.000000	-773.38	-1744
1	FID		ACIS-S-4	7.17	5150	1.000	0.508	0.154	0.010	0.020	0.000000	0.000000	2140.57	164
2	FID		ACIS-S-5	7.17	5150	1.000	-0.308	0.012	0.012	0.021	0.000000	0.000000	-1826.07	157
3	GUIDE	used	960761216	8.60	10300	1.000	0.220	0.337	0.107	0.177	241.893335	-31.552444	-1707.55	-1625
4	GUIDE	used	960774896	8.94	10297	1.000	0.015	0.275	0.138	0.219	242.047204	-31.608274	-1526.39	-1145
5	GUIDE	used	961285656	7.59	10301	1.000	-0.003	0.050	0.126	0.205	242.296346	-32.100333	221.14	-318
6	GUIDE	used	961289384	9.21	10292	1.000	0.040	-0.318	0.195	0.315	242.600526	-32.282195	837.62	629
7	GUIDE	used	962465648	9.18	10283	1.000	-0.267	-0.342	0.158	0.257	243.185818	-31.846141	-786.24	2366

2.4 Star Slots

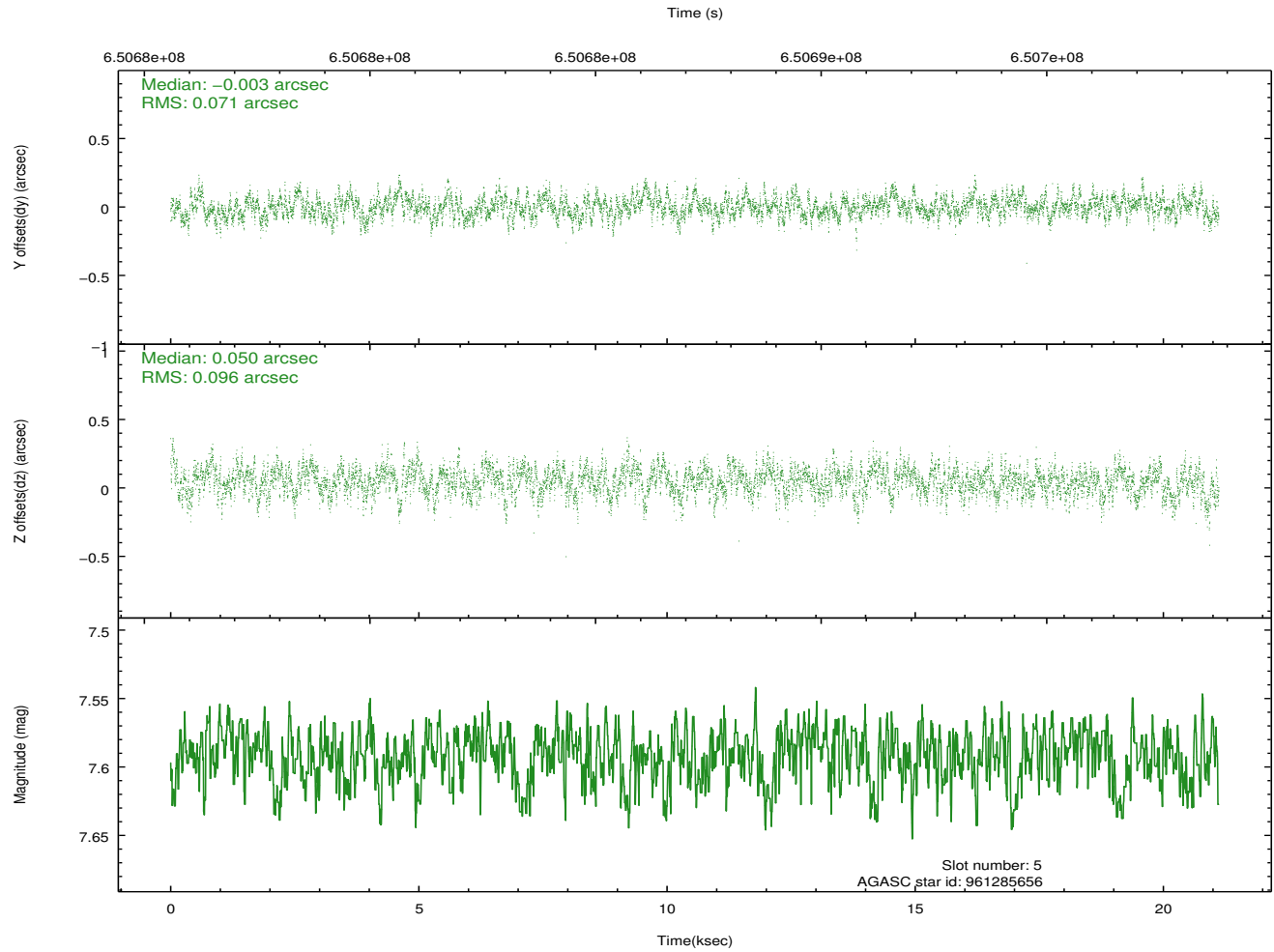
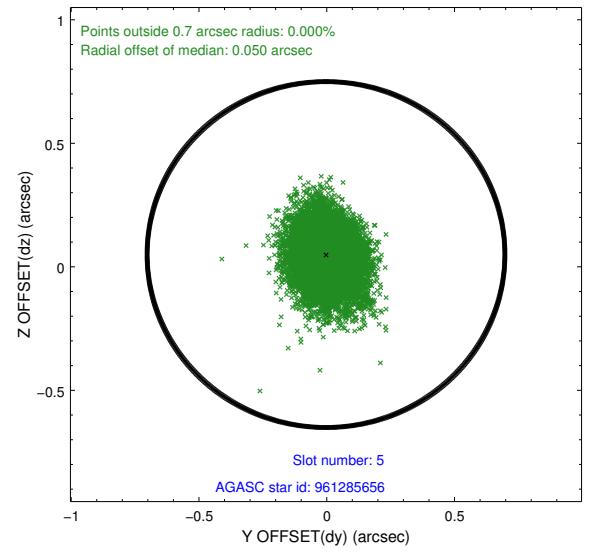
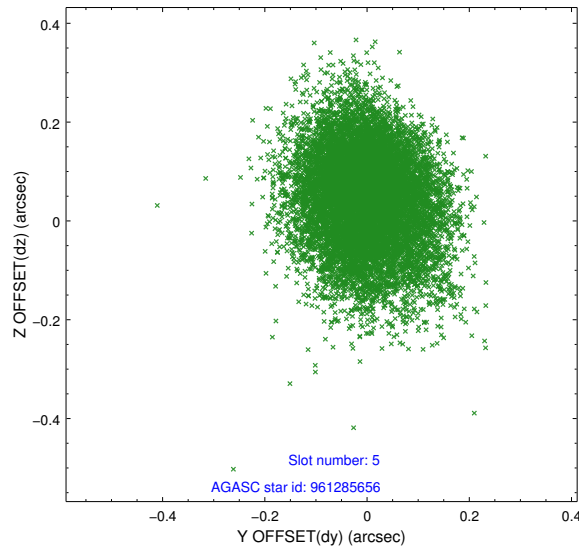
2.4.1 Slot 3



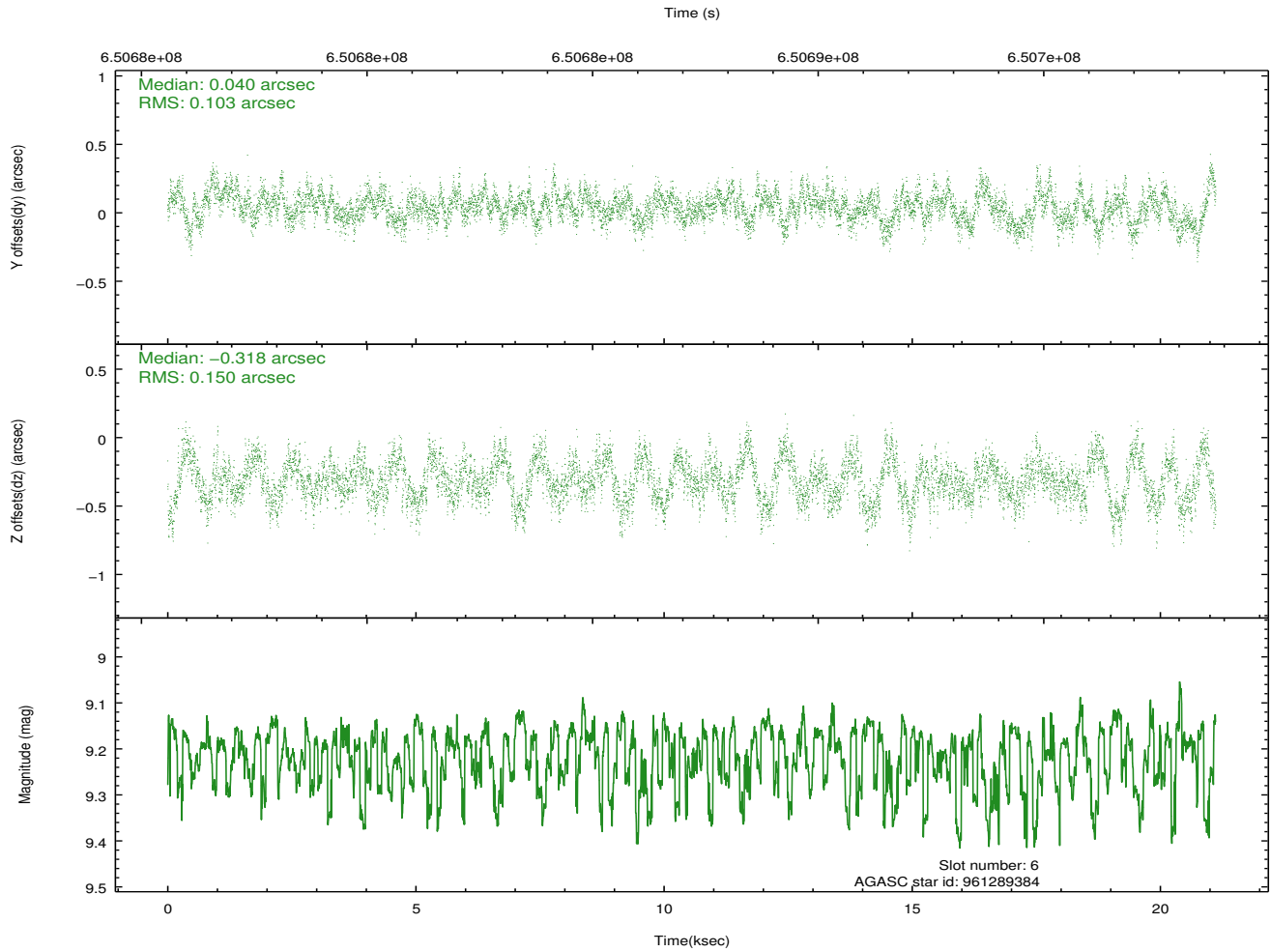
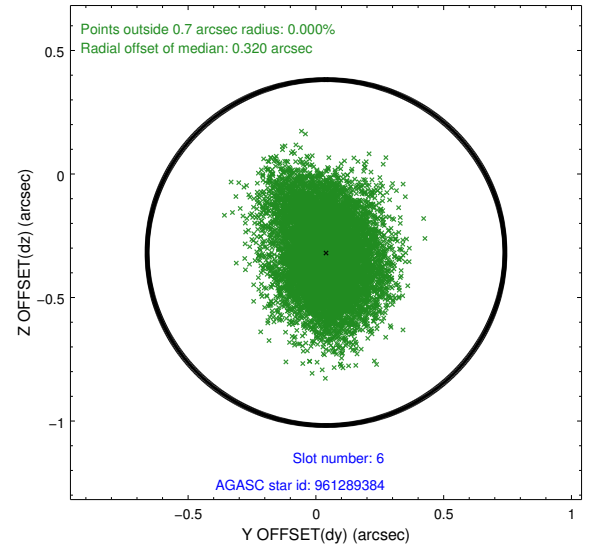
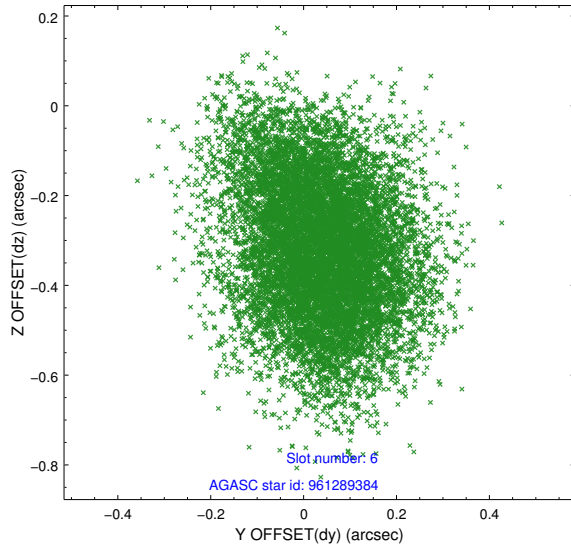
2.4.2 Slot 4



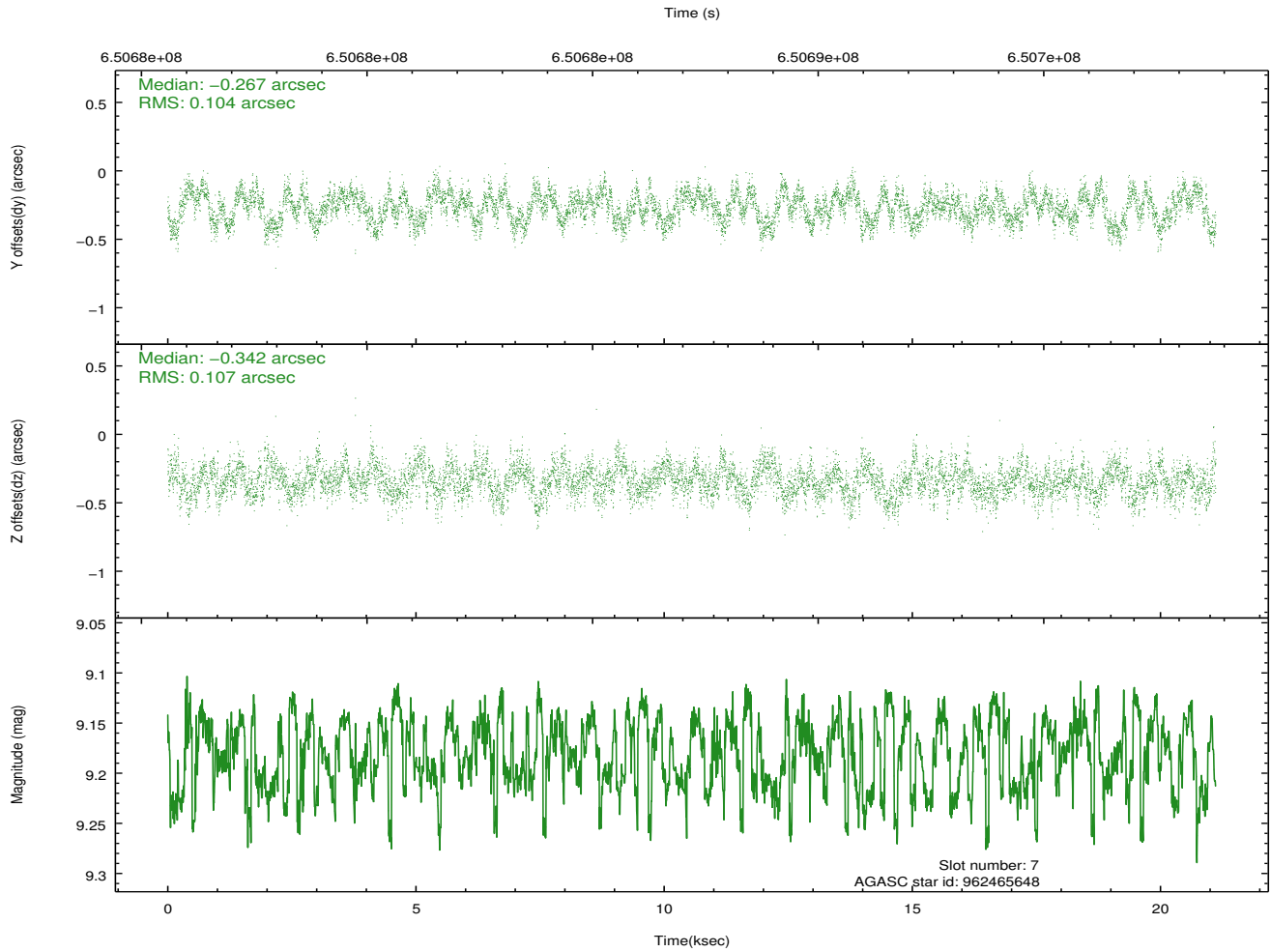
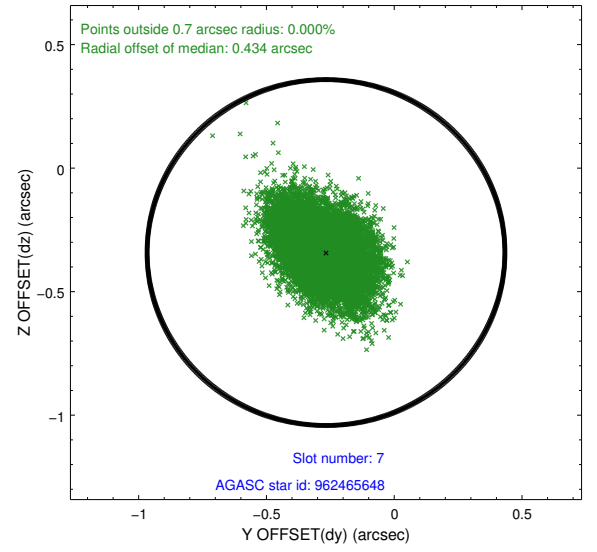
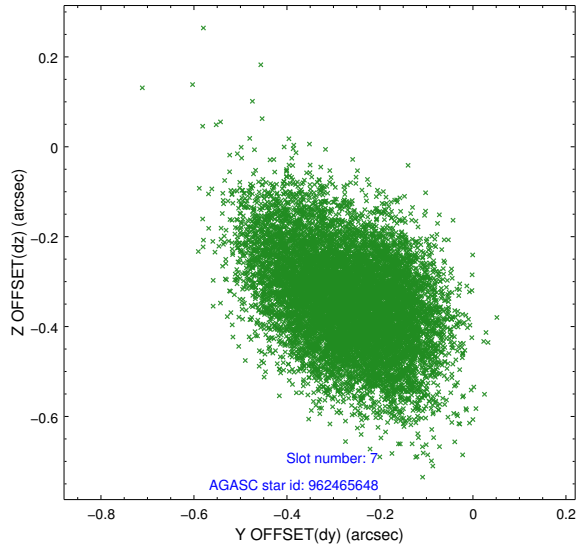
2.4.3 Slot 5



2.4.4 Slot 6

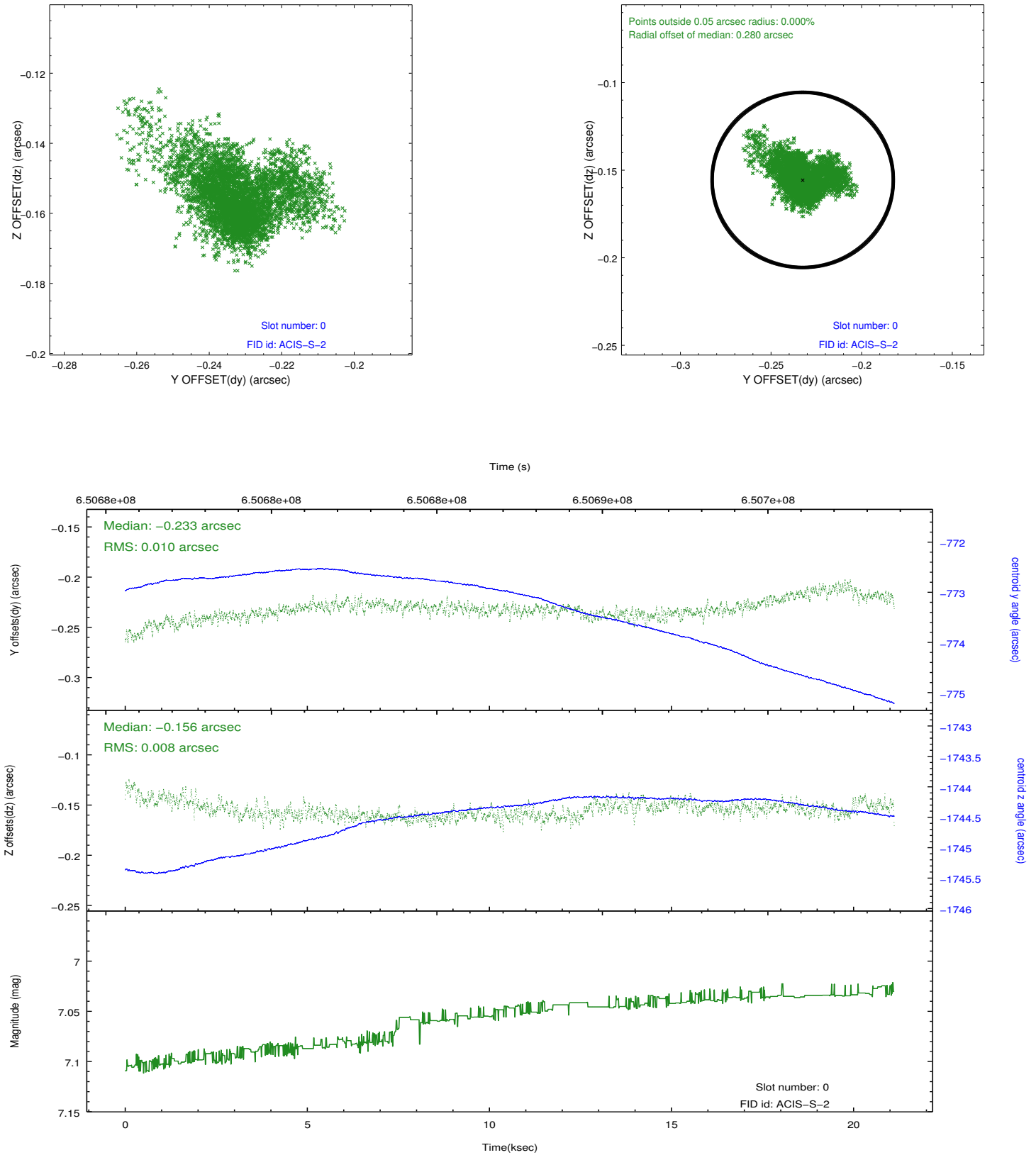


2.4.5 Slot 7

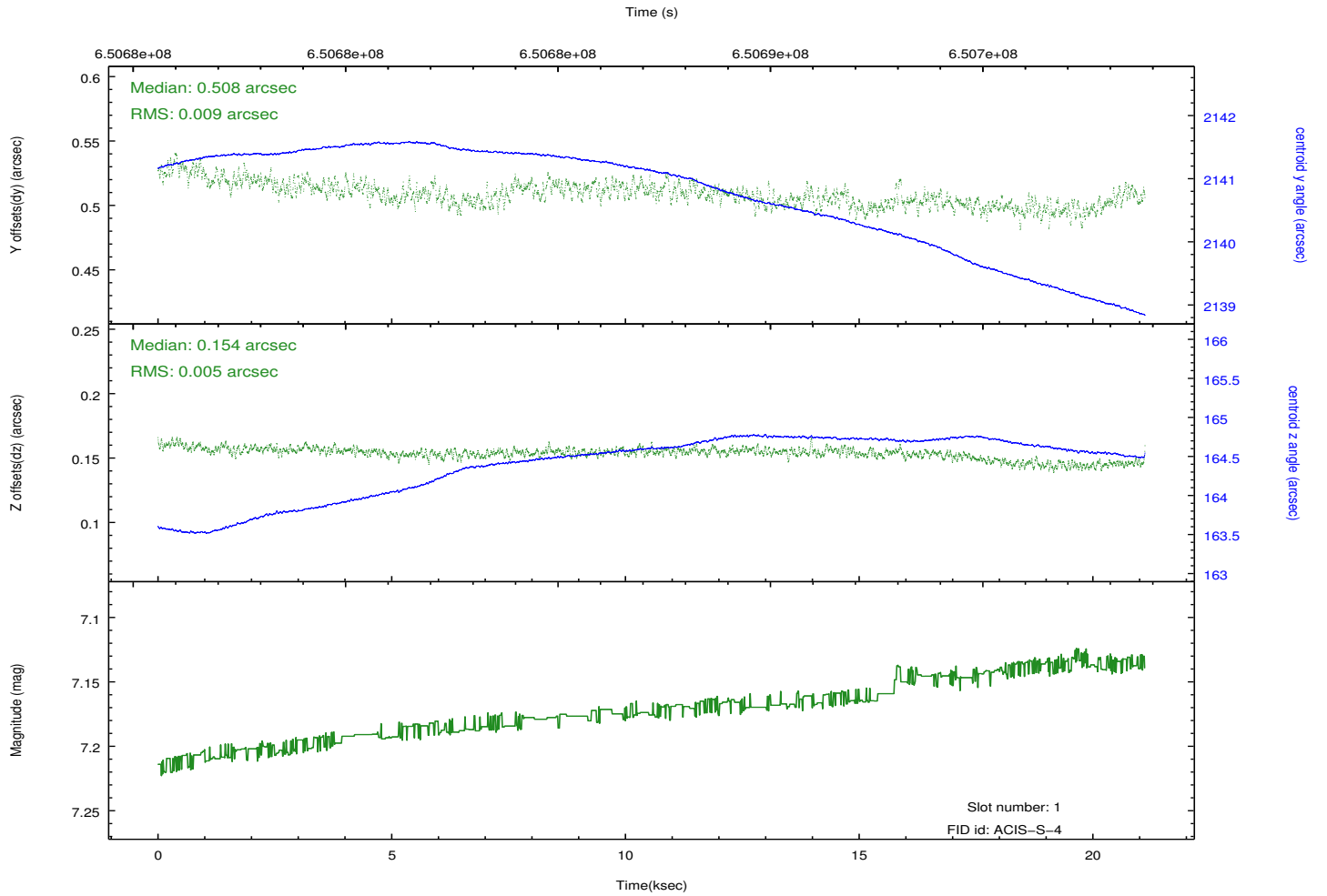
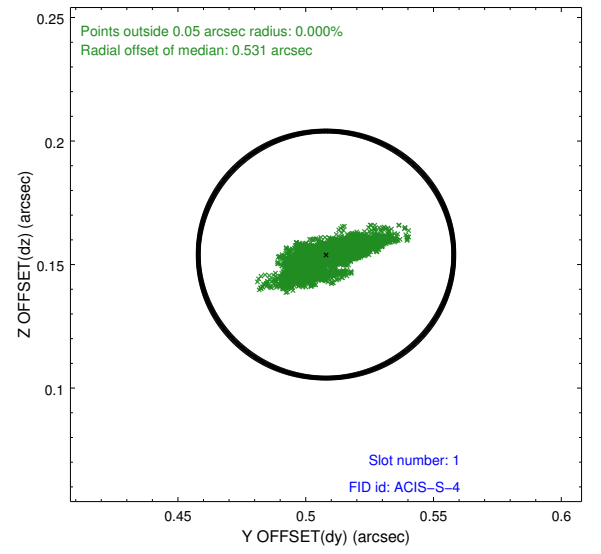
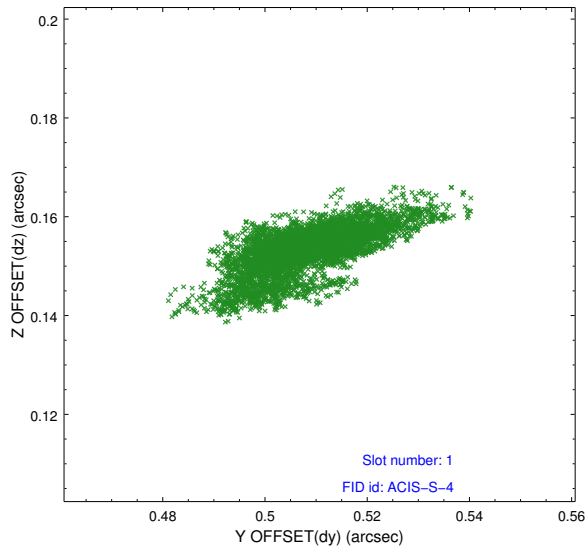


2.5 FID Slots

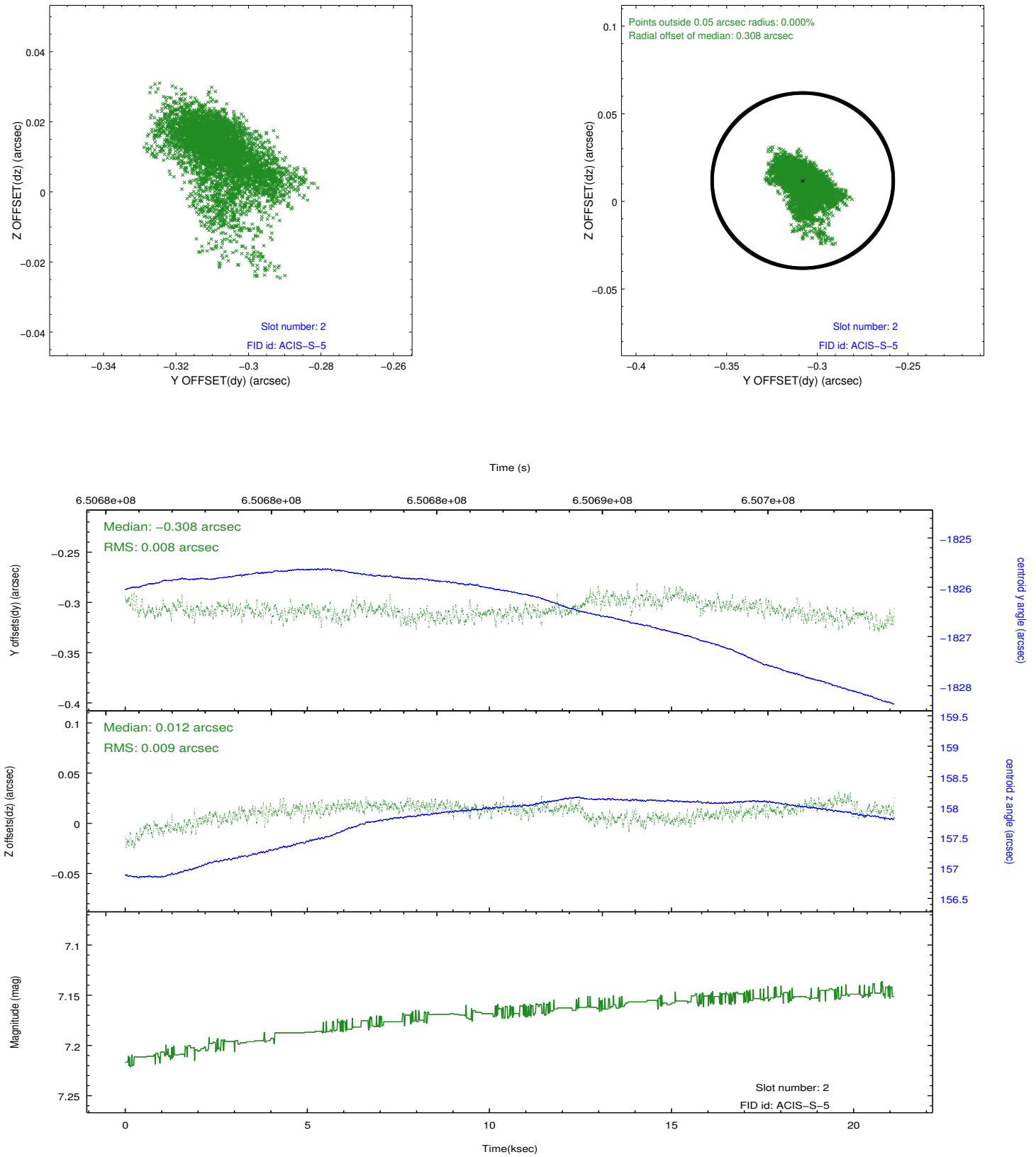
2.5.1 Slot 0



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)	2018.08.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	21.02932488215

A.2 Comments