

V&V Reference Report

L2 ASCDS Version : 10.7

Observation 21297 - L2 Version 1
Chandra X-Ray Center

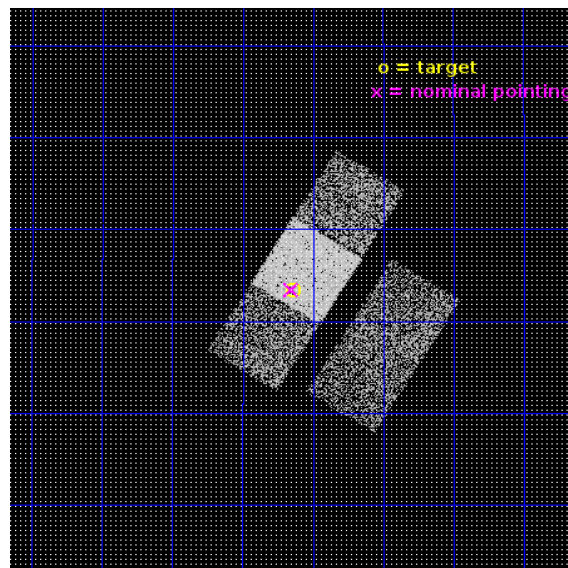
L2 Processing Date : Nov 28 2018

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1 Front

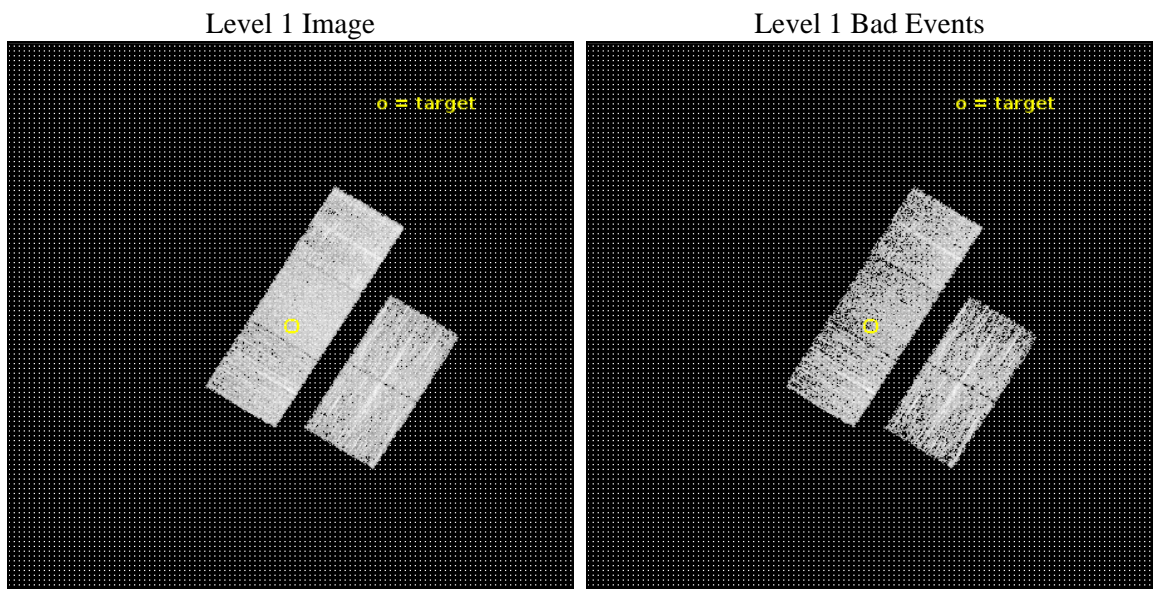
seq_num	503070	Sequence number
obs_id	21297	Observation id
title	Where Have All the Central Compact Objects Gone?	Proposal title
observer	Eric Gotthelf	Principal investigator
object	PSR J1951+1123	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	297.784167	Observer's specified target RA [deg]
dec_targ	11.390333	Observer's specified target Dec [deg]
ra_nom	297.78806757571	Nominal RA [deg]
dec_nom	11.390610717153	Nominal Dec [deg]
roll_nom	301.78136774253	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3555.7000274658	Sum of GTIs [s]
livetime	3509.2421889387	Livetime [s]
ontime2	3555.7000274658	Sum of GTIs [s]
ontime3	3555.7000274658	Sum of GTIs [s]
ontime6	3555.7000274658	Sum of GTIs [s]
ontime7	3555.7000274658	Sum of GTIs [s]
ontime8	3555.7000274658	Sum of GTIs [s]
l2events	25761	Number of level 2 events



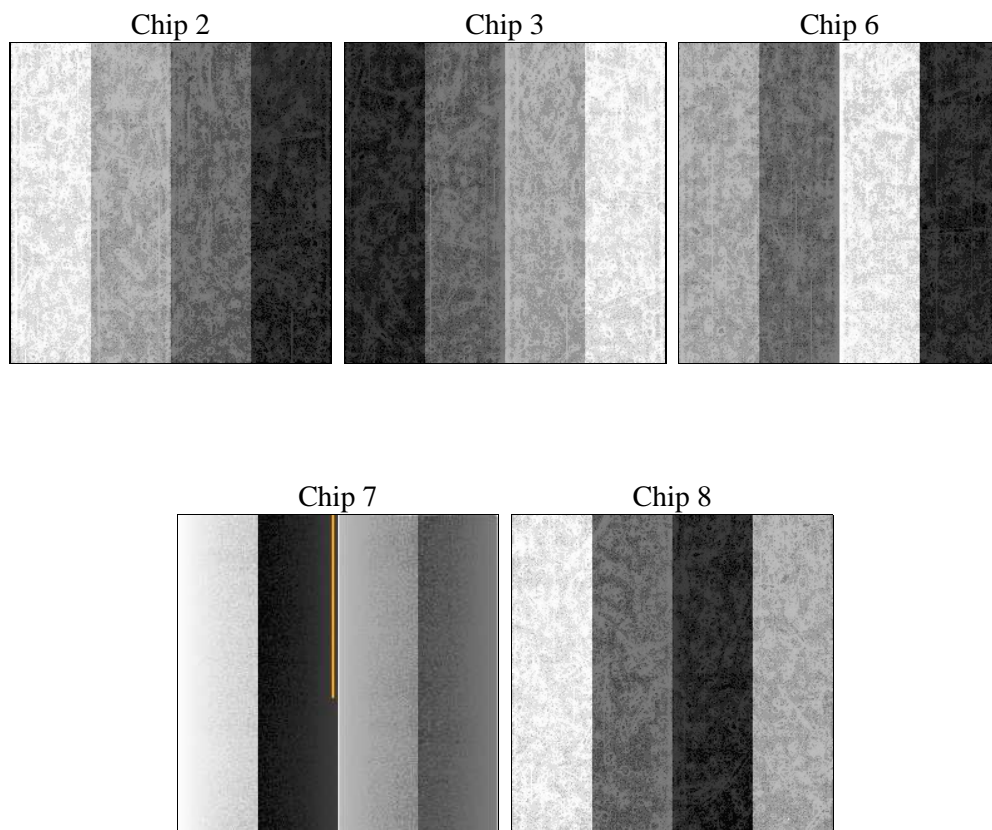
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3500.000000	[s] Scheduled observation exposure time
ascdsver	10.7	Processing system revision	ontime	3555.7000274658	Sum of GTIs [s]
caldsver	4.8.0.1	 	ontime2	3555.7000274658	Sum of GTIs [s]
date	2018-11-28T13:44:29	Date and time of file creation	ontime3	3555.7000274658	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	3555.7000274658	Sum of GTIs [s]
			ontime7	3555.7000274658	Sum of GTIs [s]
			ontime8	3555.7000274658	Sum of GTIs [s]
			l1events	151115	Number of level 1 events

2.1.4 Events

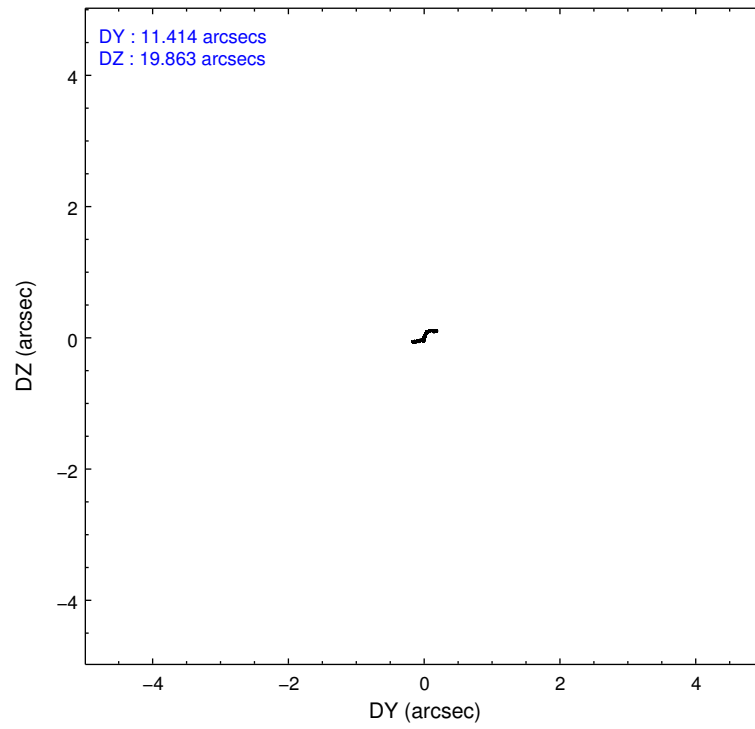
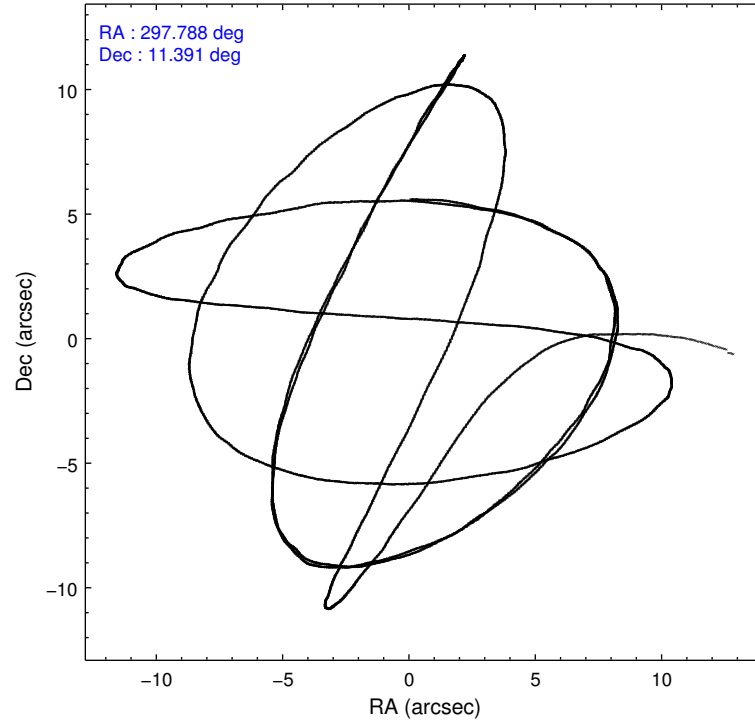
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	27318	26134	27879	34430	35354
rejected events	24323	23217	24647	19399	25605
rejected %	89%	88%	88%	56%	72%

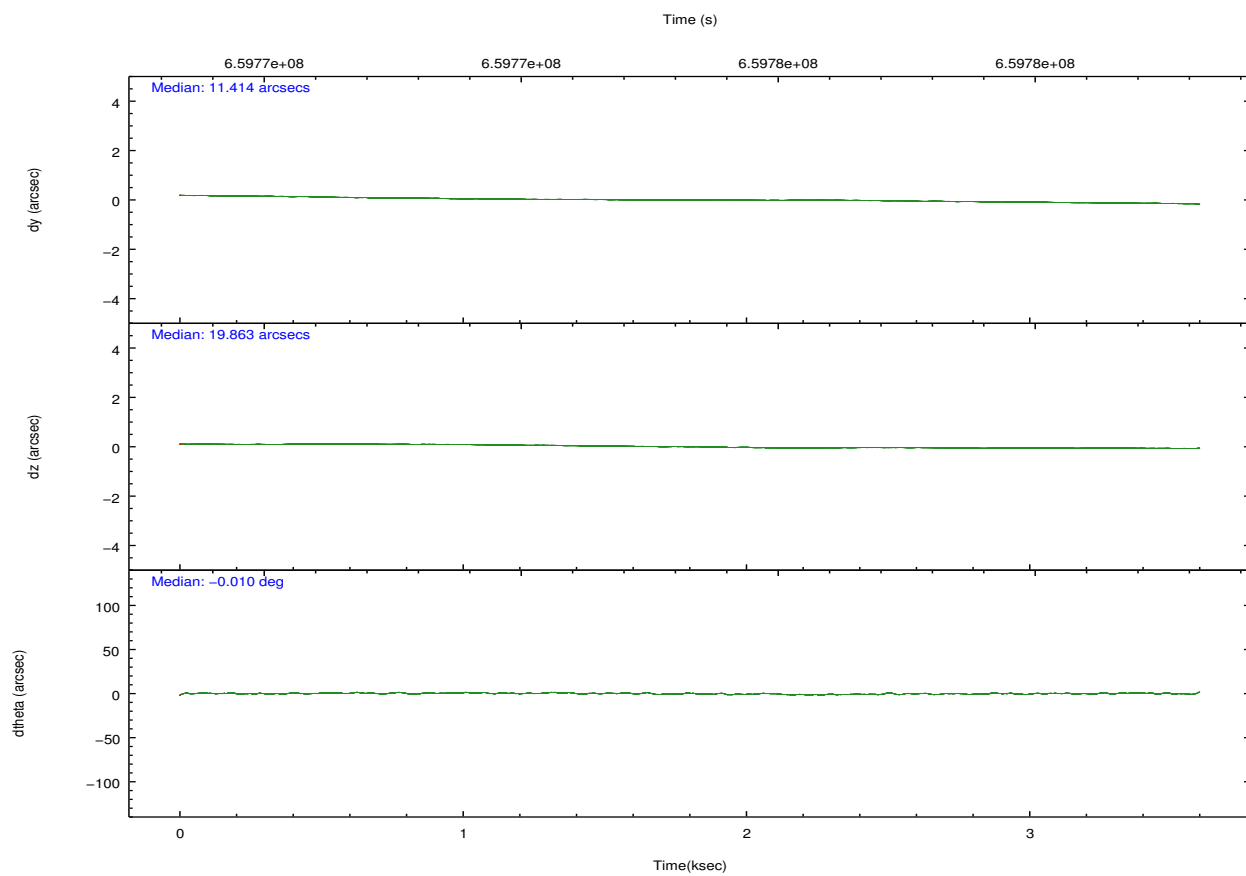
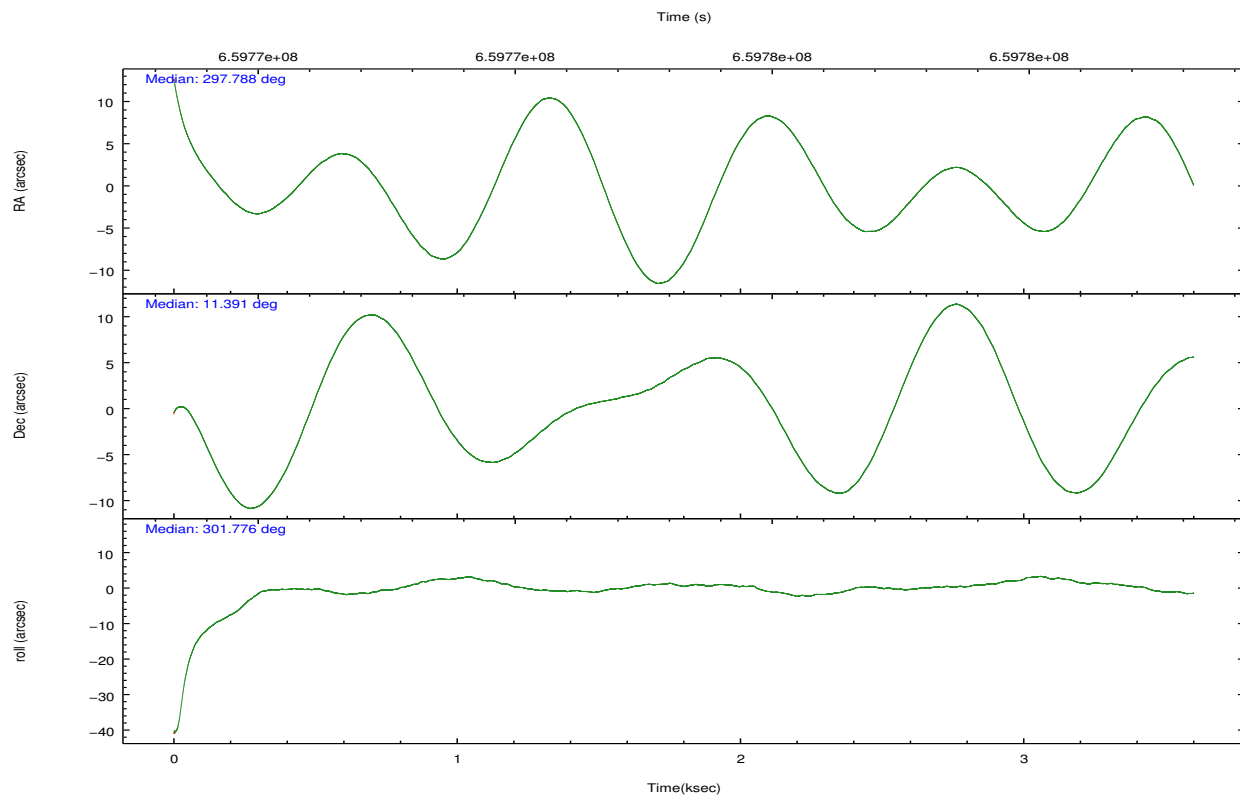
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	1043	1158	1092	1285	2851
	3%	4%	3%	3%	8%
grade 1 events	14	10	17	66	33
	0%	0%	0%	0%	0%
grade 2 events	756	612	744	3324	2407
	2%	2%	2%	9%	6%
grade 3 events	305	289	310	1188	1040
	1%	1%	1%	3%	2%
grade 4 events	287	300	327	1132	1012
	1%	1%	1%	3%	2%
grade 5 events	1123	1295	1324	3437	1841
	4%	4%	4%	9%	5%
grade 6 events	606	562	763	8115	2478
	2%	2%	2%	23%	7%
grade 7 events	23184	21908	23302	15883	23692
	84%	83%	83%	46%	67%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	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	297.763089	297.788067575715	CCD I2 on	O1	Y
[deg] Pointing Dec	11.403420	11.39061071715334	CCD I3 on	O2	Y
[deg] Pointing Roll	301.629781	301.7813677425263	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	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	Y	Y
[s] Observation start time (MET)	659772952.184000	659771479.13826	CCD S5 on	N	N
Observation start date	2018-11-28T06:14:43	2018-11-28T05:51:19	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	659776452.184000	659777417.98862	On-chip summing requested	N	N
Observation end date	2018-11-28T07:13:03	2018-11-28T07:30:17	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



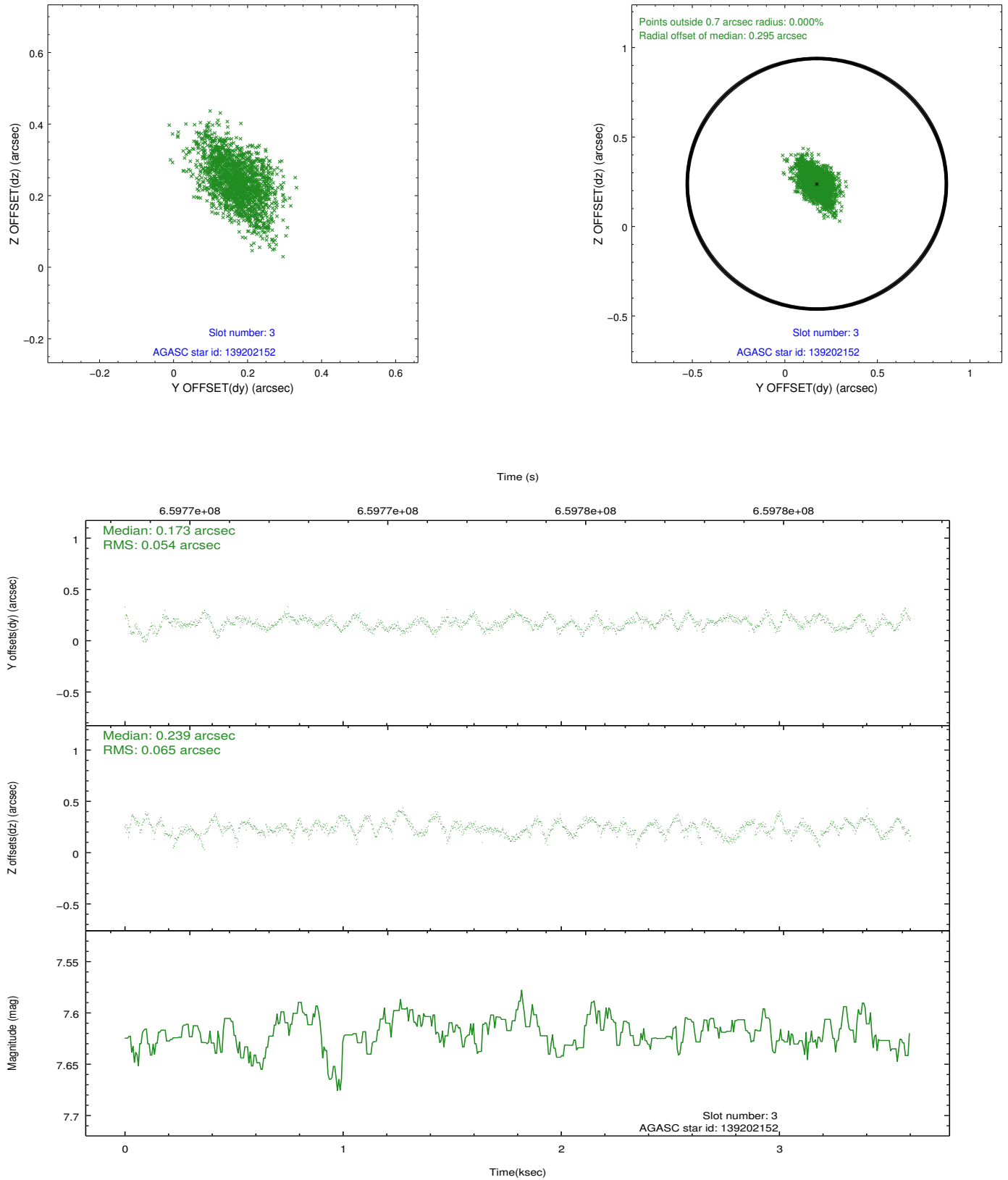


Slot Statistics

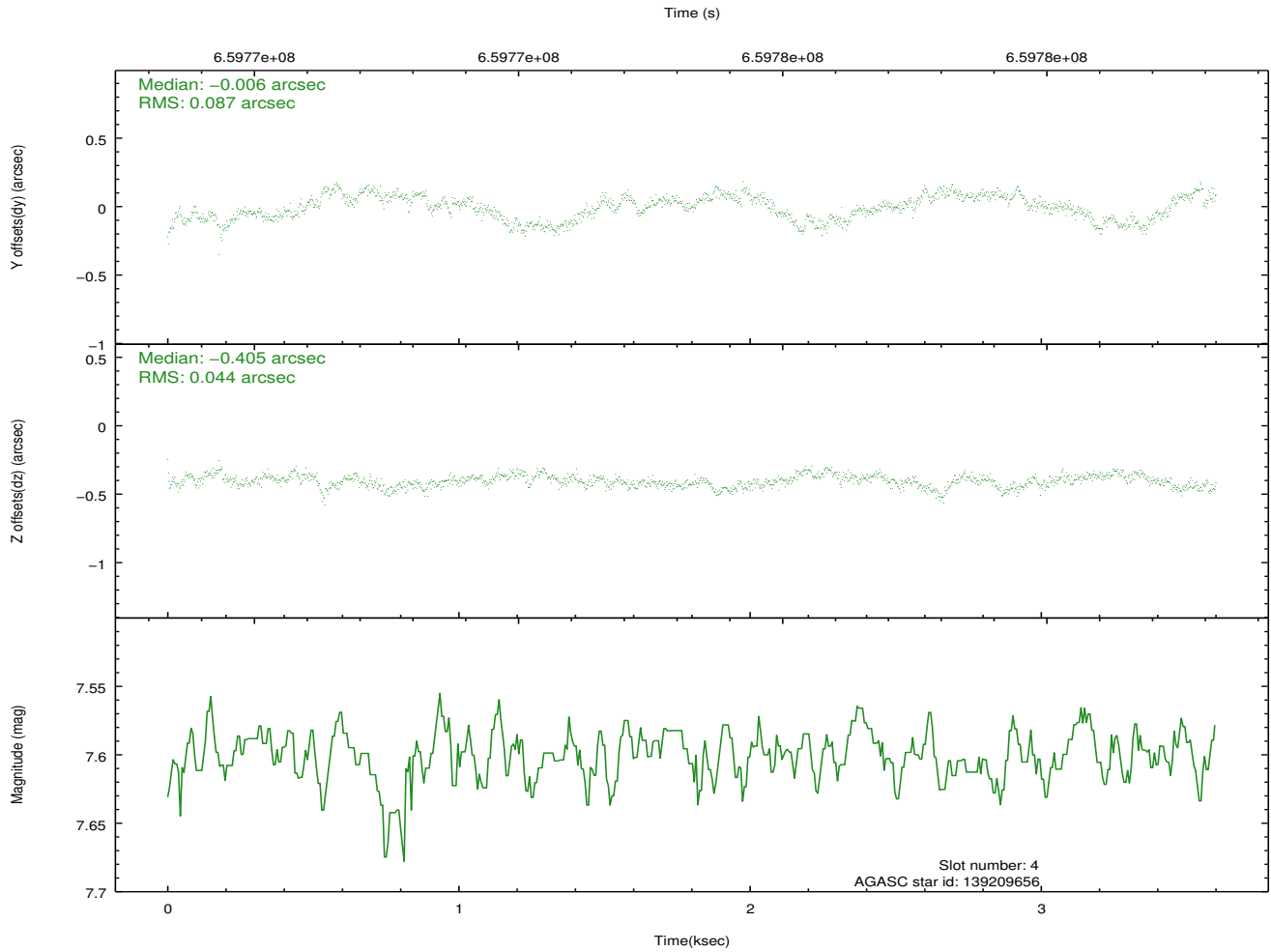
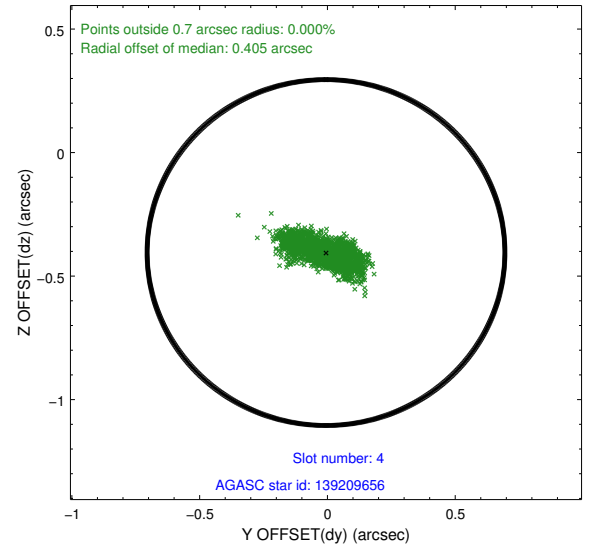
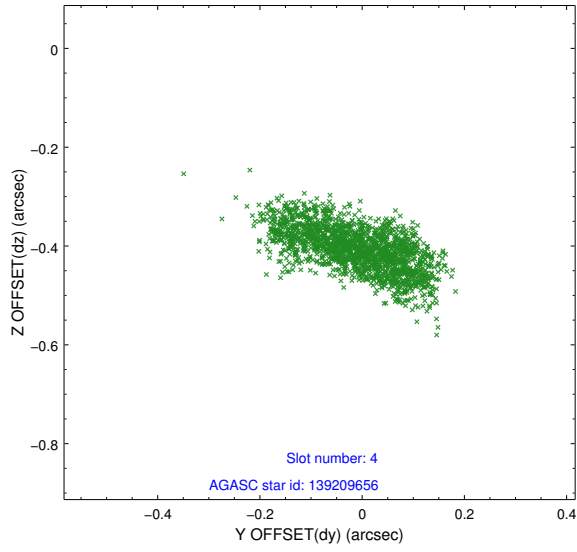
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.08	879	1.000	0.280	-0.068	0.007	0.012	0.000000	0.000000	932.18	-1736
1	FID		ACIS-S-2	6.99	879	1.000	-0.175	-0.030	0.009	0.014	0.000000	0.000000	-763.20	-1743
2	FID		ACIS-S-5	7.11	878	1.000	-0.128	0.105	0.007	0.012	0.000000	0.000000	-1818.34	158
3	GUIDE	used	139202152	7.62	1755	1.000	0.173	0.239	0.087	0.153	297.445711	11.231157	-60.20	-1278
4	GUIDE	used	139209656	7.60	1757	1.000	-0.006	-0.405	0.107	0.167	298.097652	10.940573	2037.76	132
5	GUIDE	used	139730200	8.30	1756	1.000	-0.079	0.017	0.106	0.164	298.029589	11.439166	386.10	870
6	GUIDE	used	139203960	9.20	1755	1.000	0.103	0.243	0.195	0.286	297.270656	11.064235	126.42	-2120
7	GUIDE	used	139731352	7.99	1756	1.000	-0.190	-0.092	0.093	0.159	298.412655	11.481204	960.43	2097

2.4 Star Slots

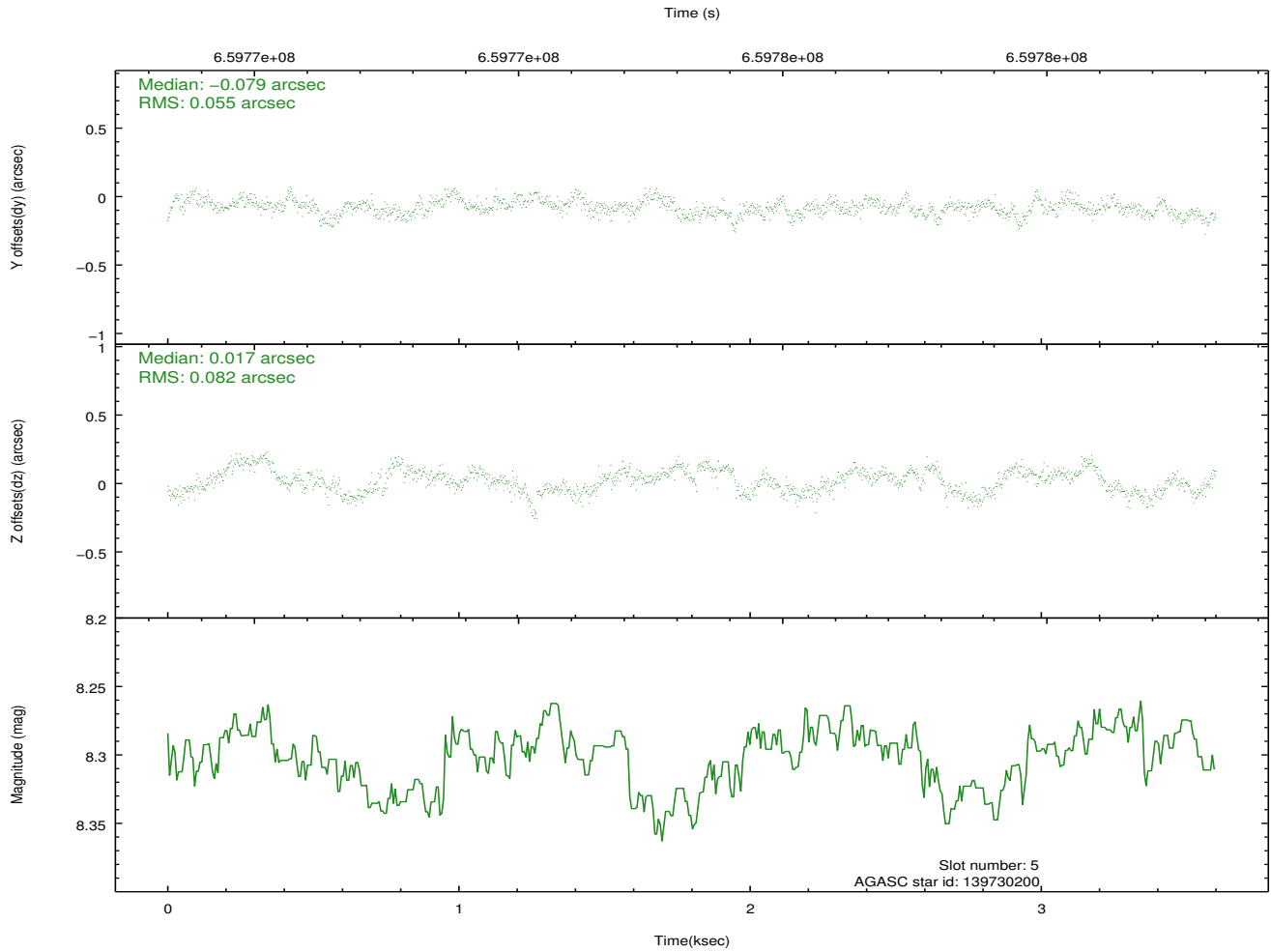
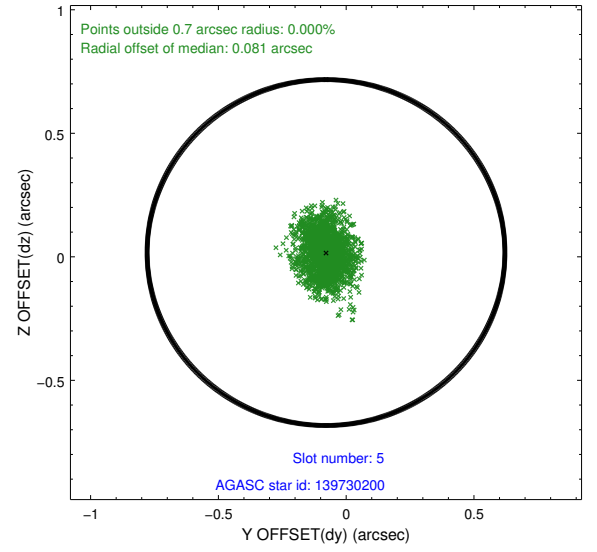
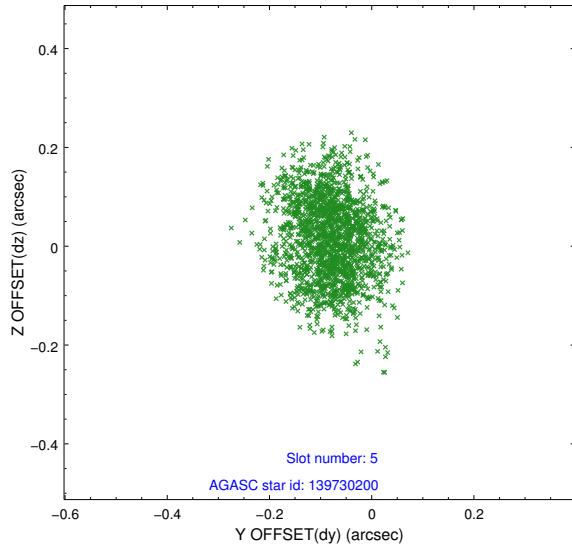
2.4.1 Slot 3



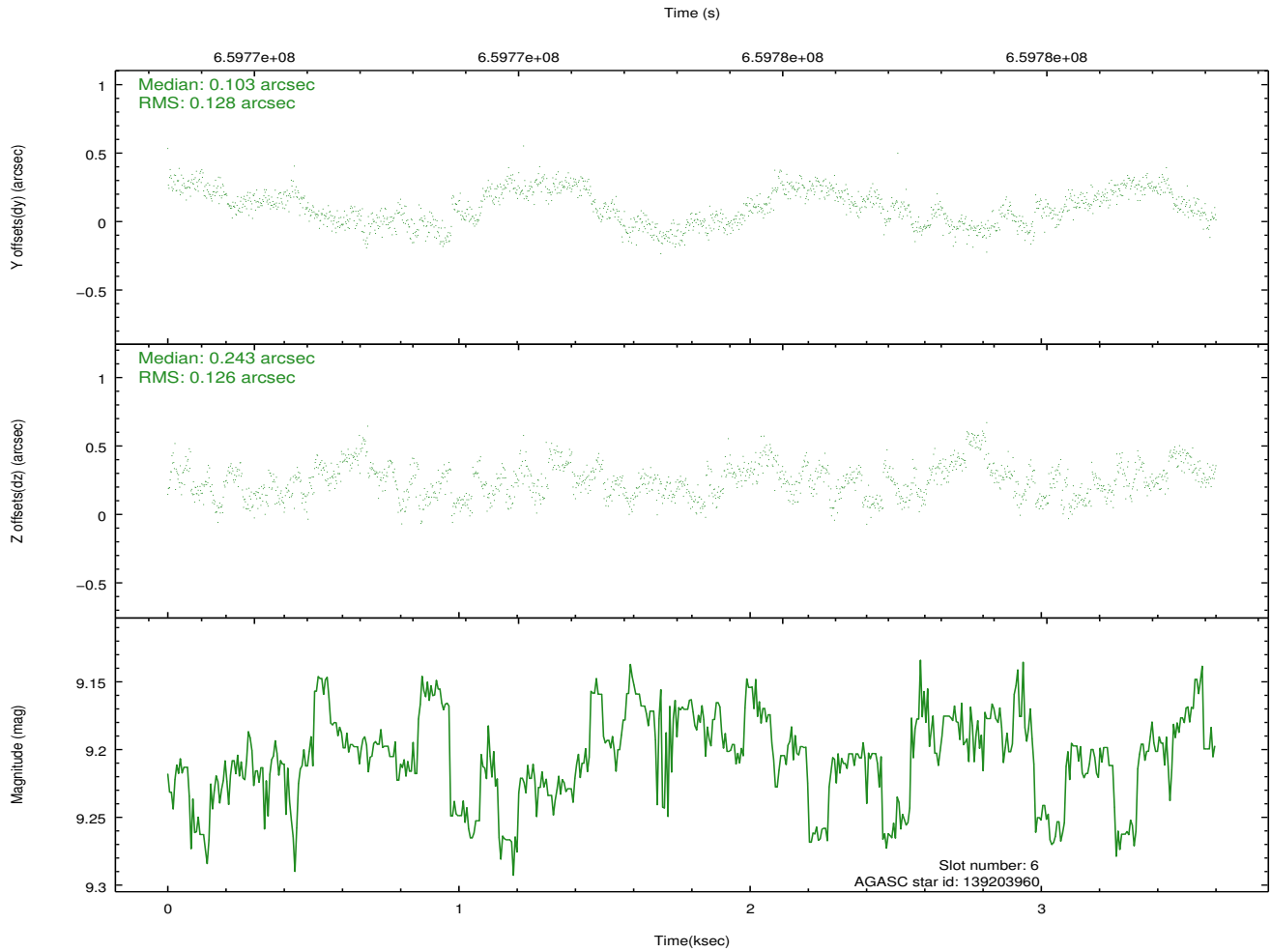
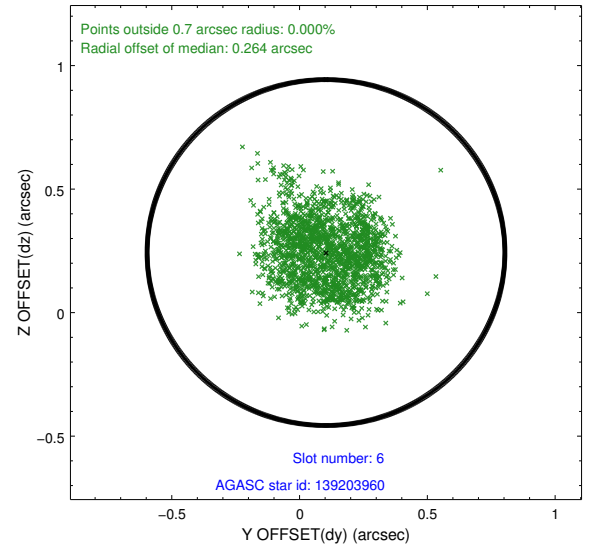
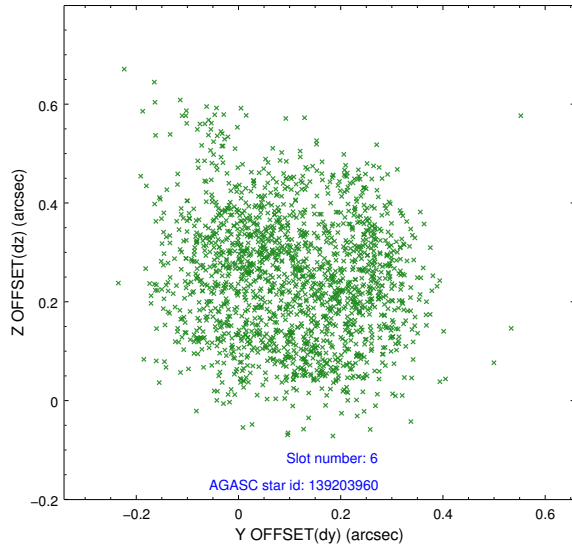
2.4.2 Slot 4



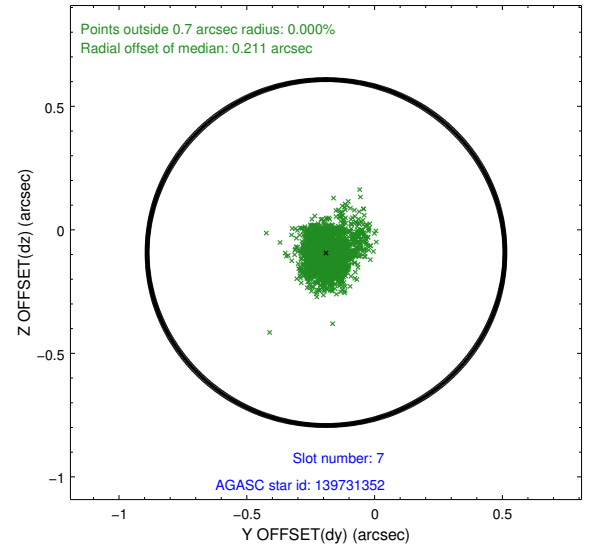
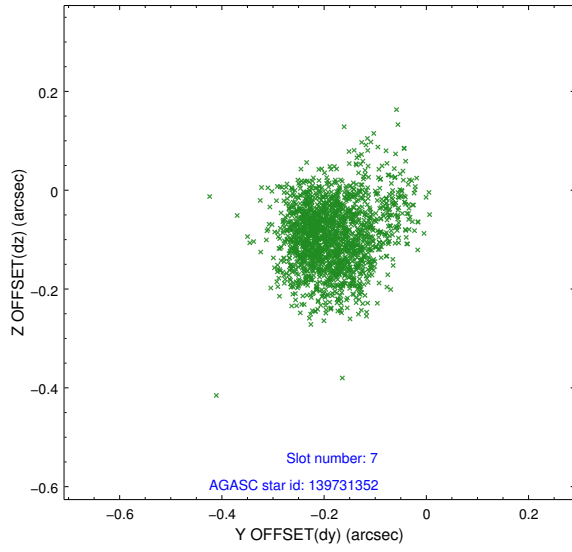
2.4.3 Slot 5



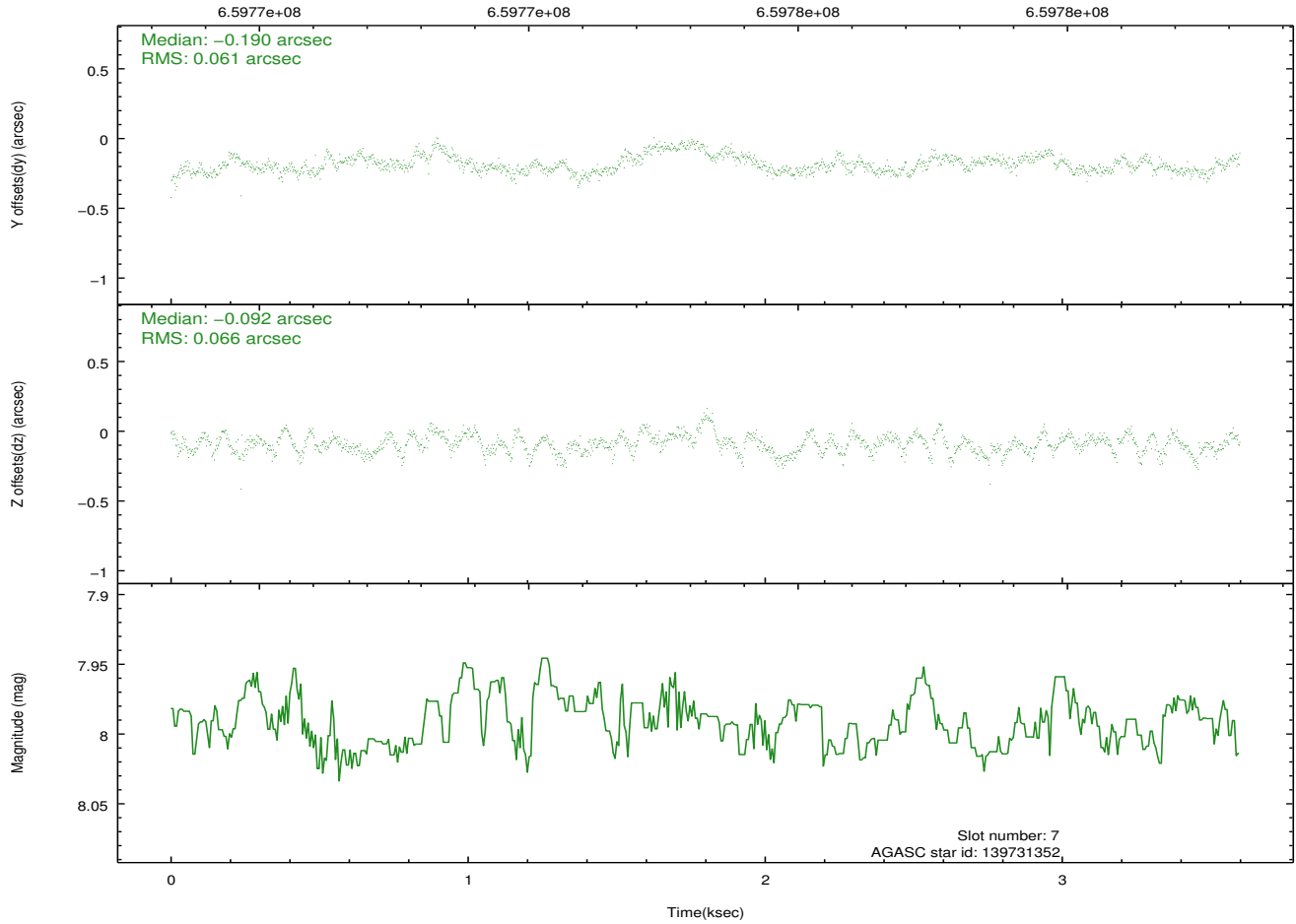
2.4.4 Slot 6



2.4.5 Slot 7

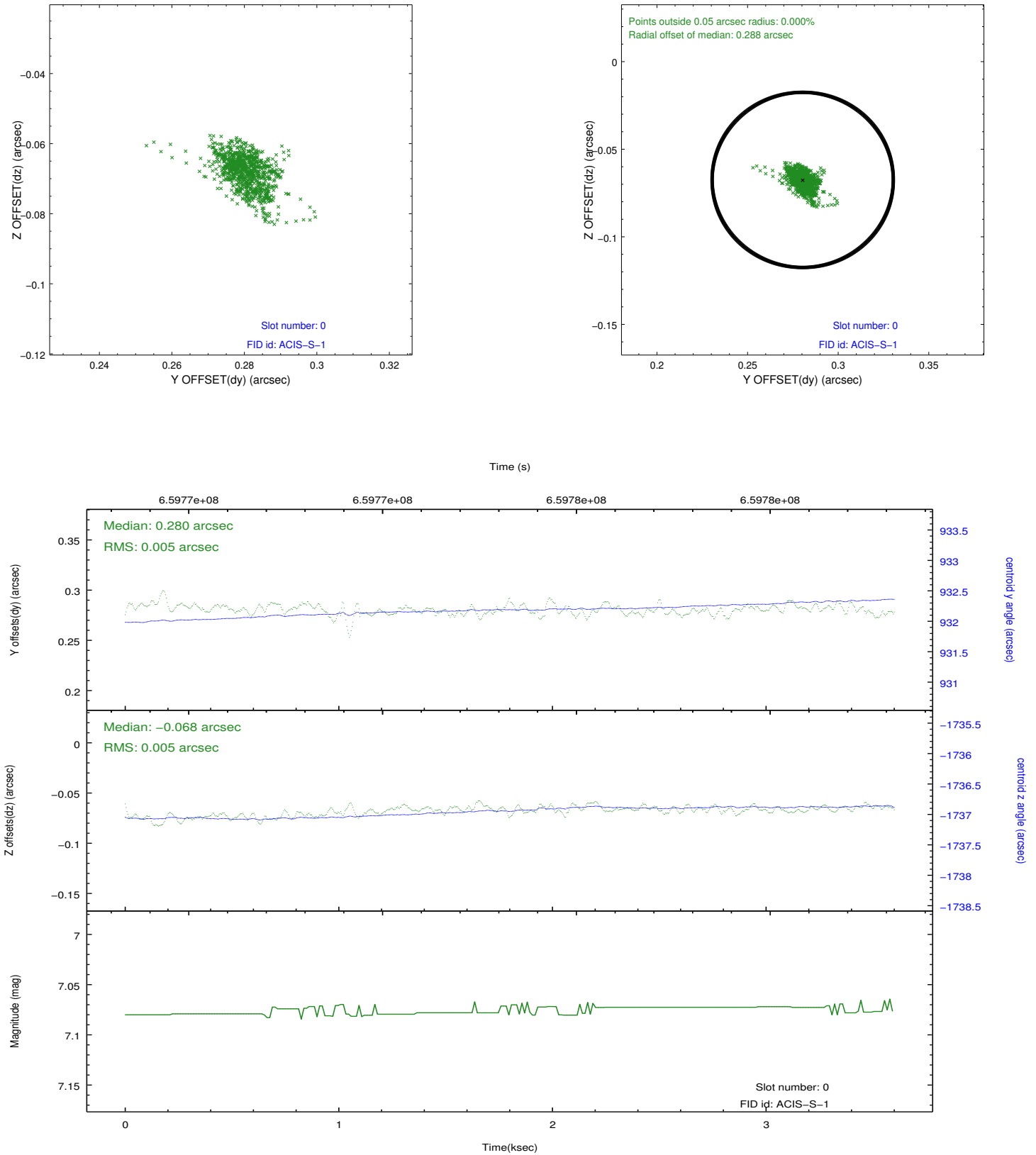


Time (s)

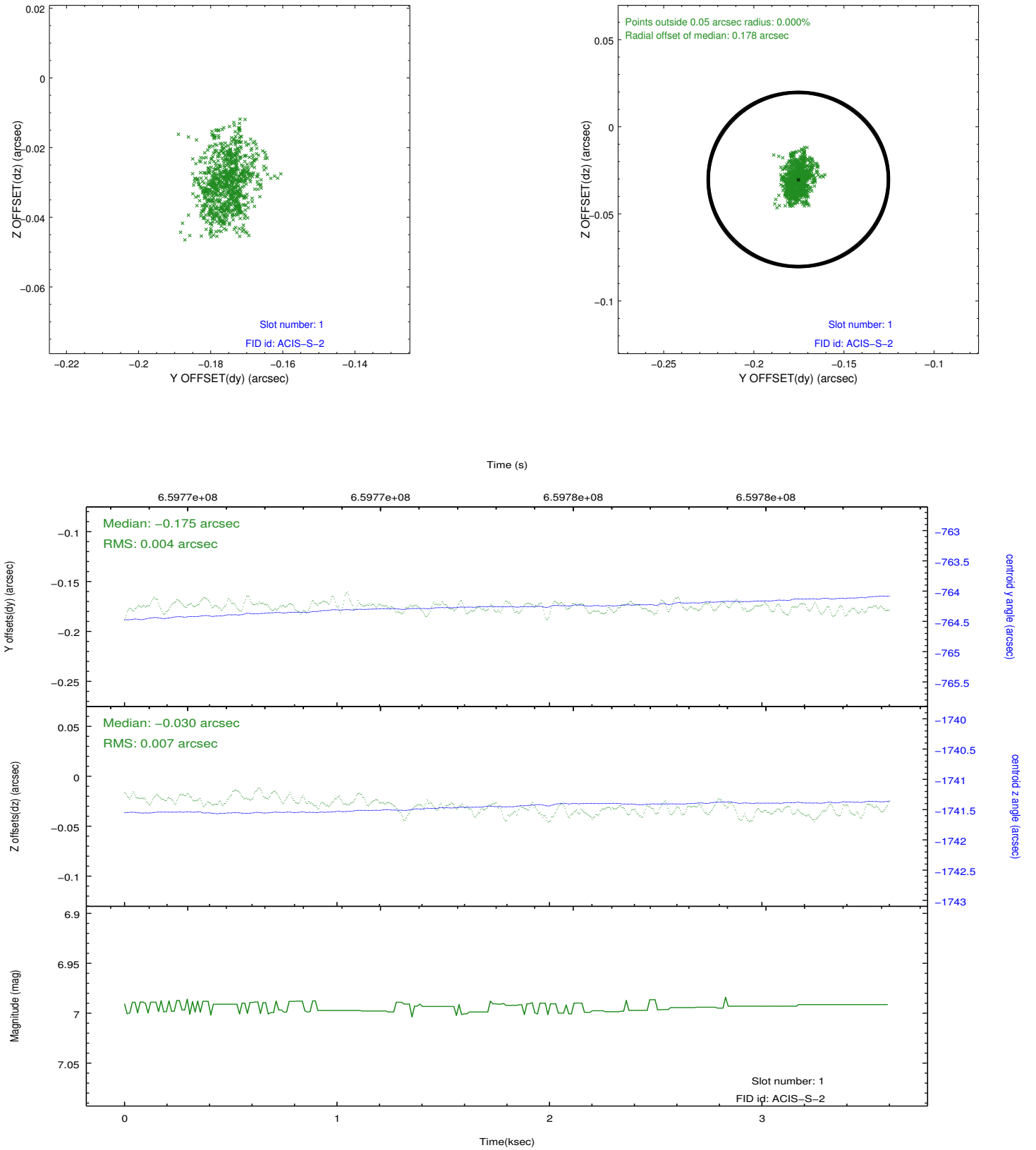


2.5 FID Slots

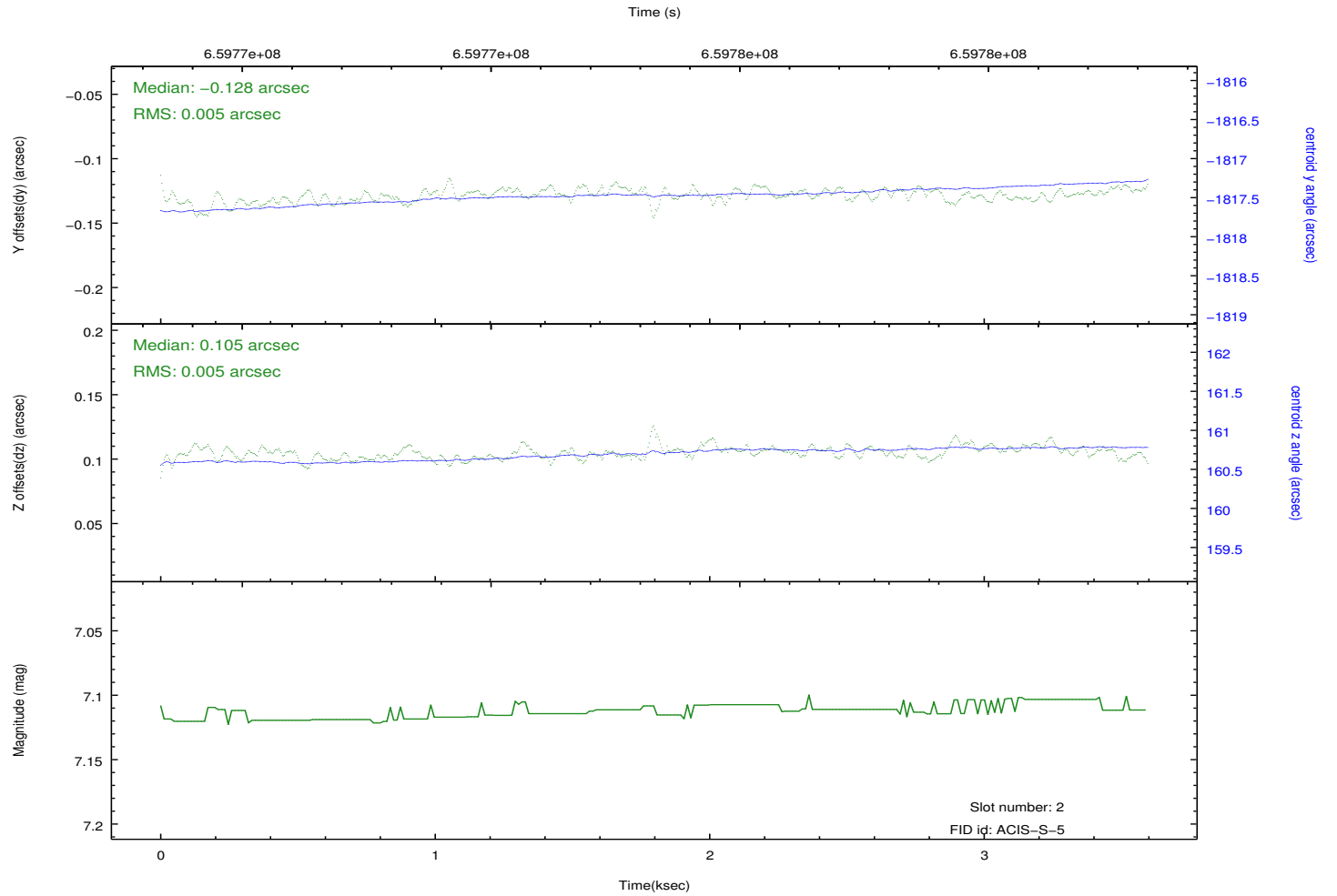
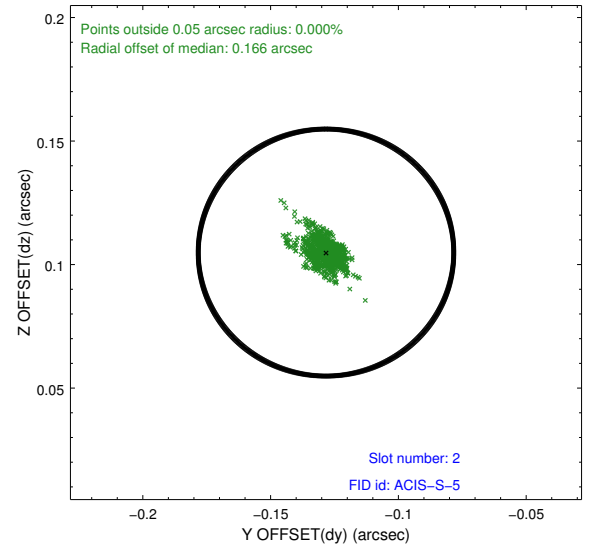
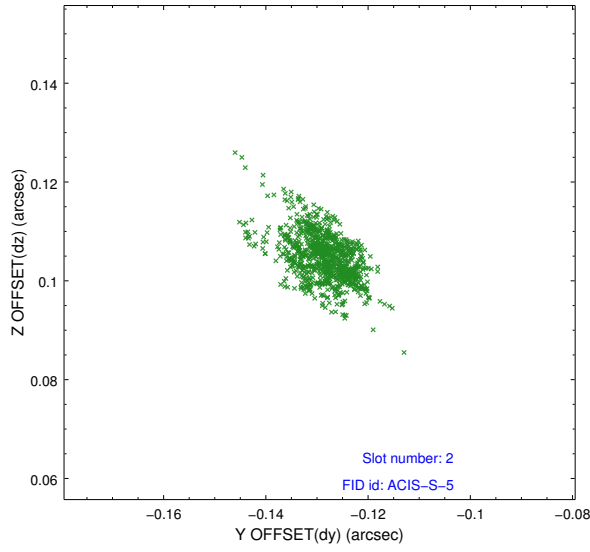
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2018.11.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.5557000274658

A.2 Comments