

V&V Reference Report

L2 ASCDS Version : 10.5.4

Observation 18943 - L2 Version 1
Chandra X-Ray Center

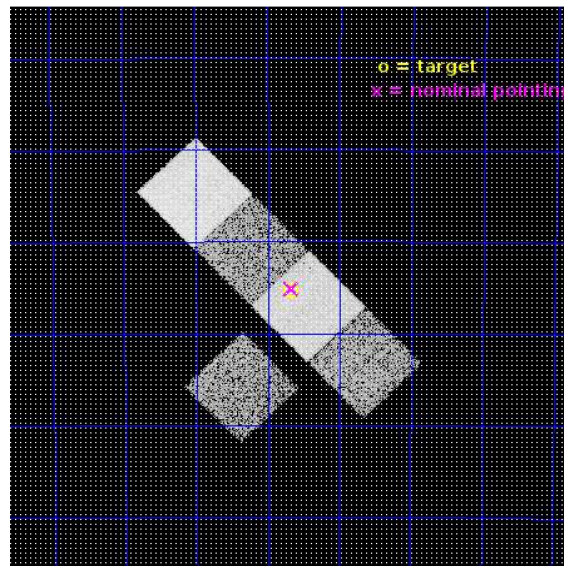
L2 Processing Date : Jun 9 2017

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

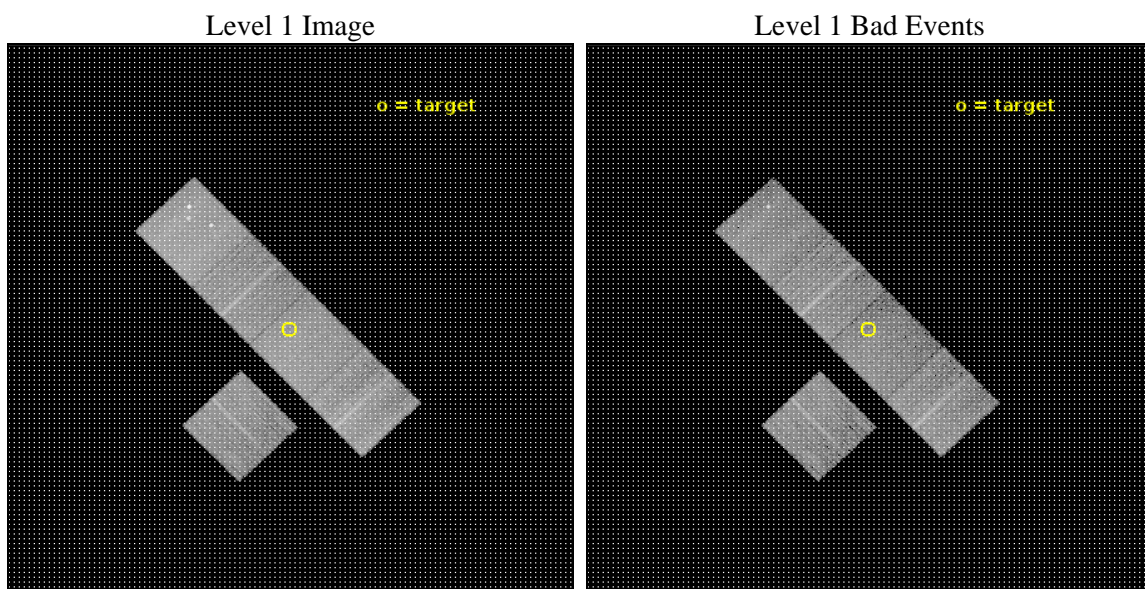
seq_num	201136	Sequence number
obs_id	18943	Observation id
title	Probing the Dynamo Mechanism in Fully Convective Stars	Proposal ti
observer	Nicholas Wright	Principal investigator
object	2MASS J19194119-5955194	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	289.92	Observer's specified target RA [deg]
dec_targ	-59.922806	Observer's specified target Dec [deg]
ra_nom	289.91783518035	Nominal RA [deg]
dec_nom	-59.919021920207	Nominal Dec [deg]
roll_nom	46.06842098296	Nominal Roll [deg]
revision	1	Processing version of data
ontime	9050.6179523468	Sum of GTIs [s]
livetime	8932.3649658314	Livetime [s]
ontime3	9047.3537521362	Sum of GTIs [s]
ontime5	9050.5769124031	Sum of GTIs [s]
ontime6	9050.5358723402	Sum of GTIs [s]
ontime7	9050.6179523468	Sum of GTIs [s]
ontime8	9050.4537923336	Sum of GTIs [s]
l2events	101719	Number of level 2 events



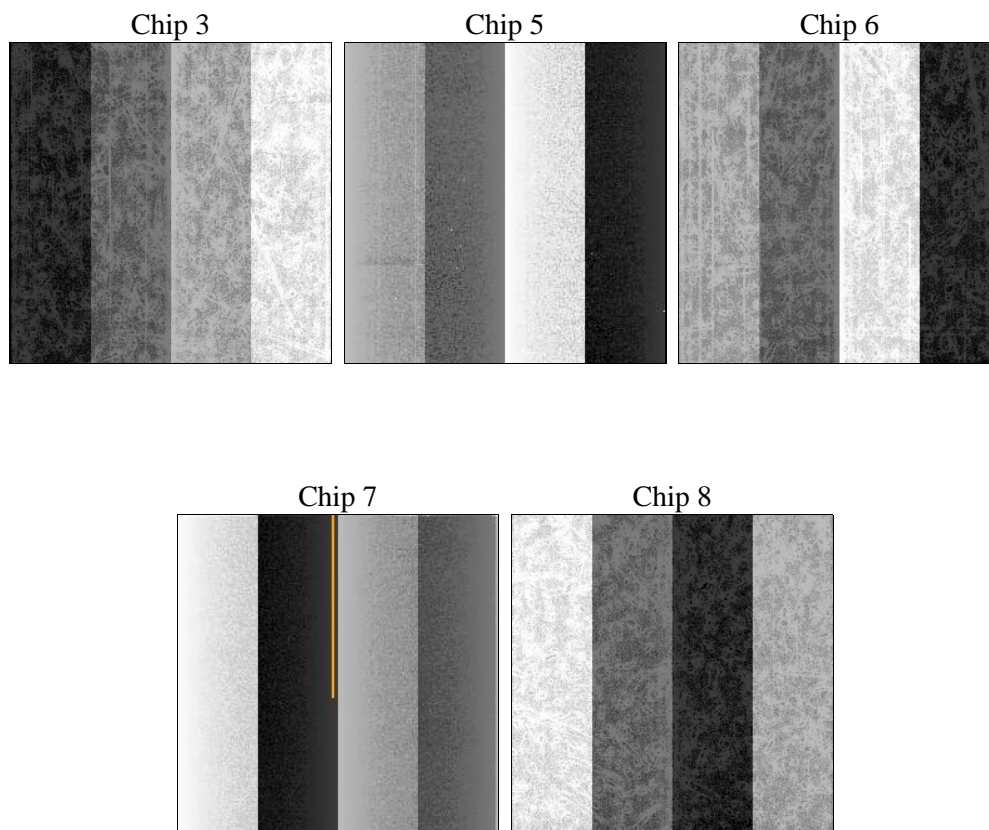
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	9000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.4	Processing system revision	ontime	9050.6179523468	Sum of GTIs [s]
caldsver	4.7.4	 	ontime3	9047.3537521362	Sum of GTIs [s]
date	2017-06-09T21:58:47	Date and time of file creation	ontime5	9050.5769124031	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	9050.5358723402	Sum of GTIs [s]
			ontime7	9050.6179523468	Sum of GTIs [s]
			ontime8	9050.4537923336	Sum of GTIs [s]
			l1events	425071	Number of level 1 events

2.1.4 Events

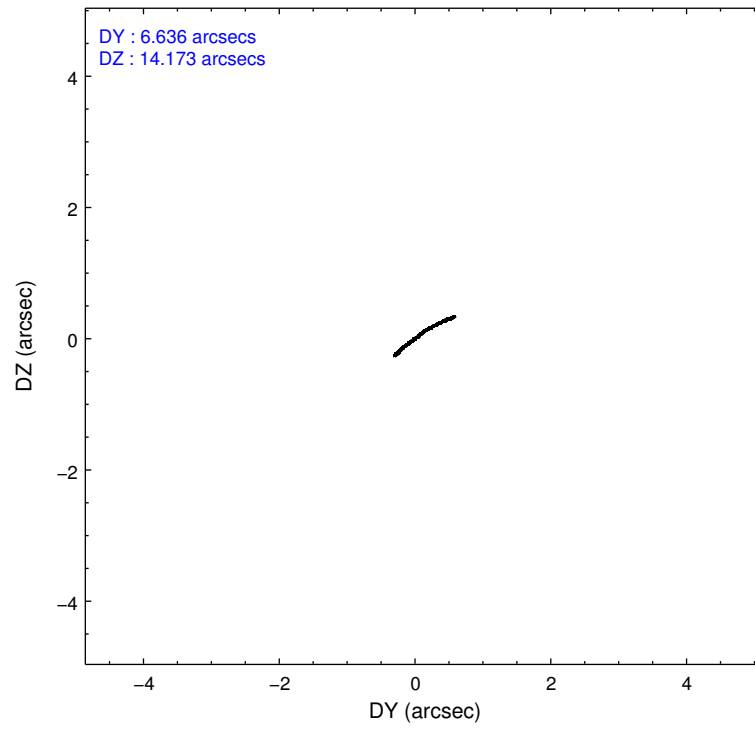
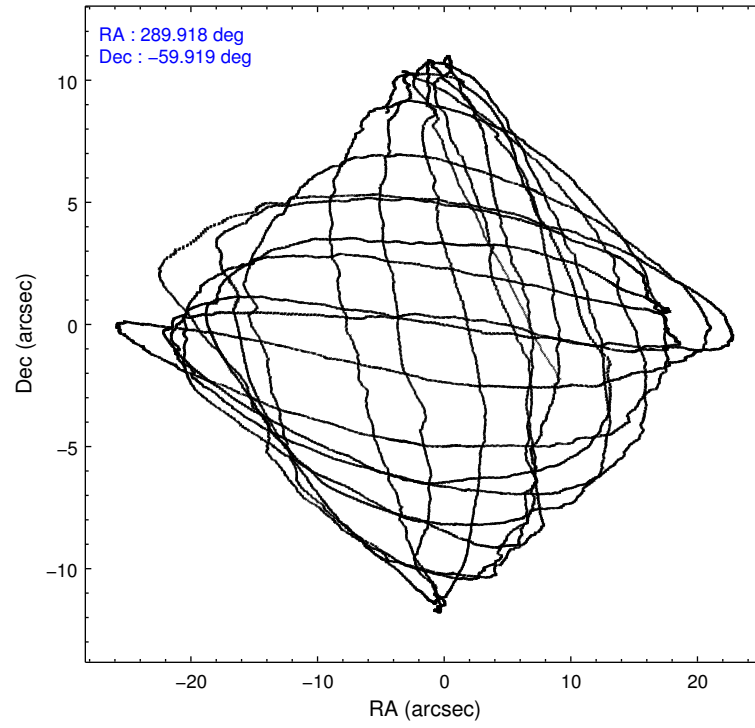
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	66730	112473	72703	84902	88263
rejected events	60230	56976	65167	49274	66922
rejected %	90%	50%	89%	58%	75%

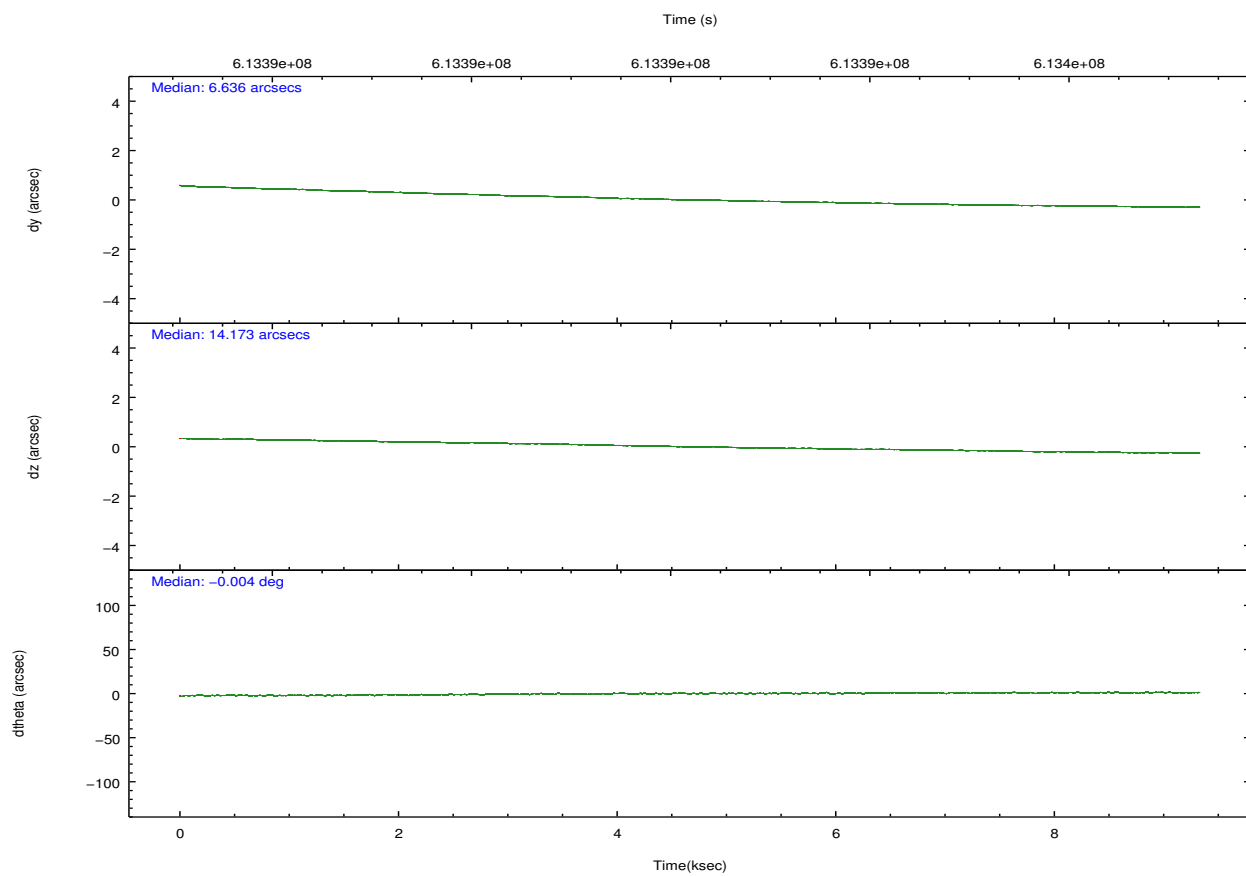
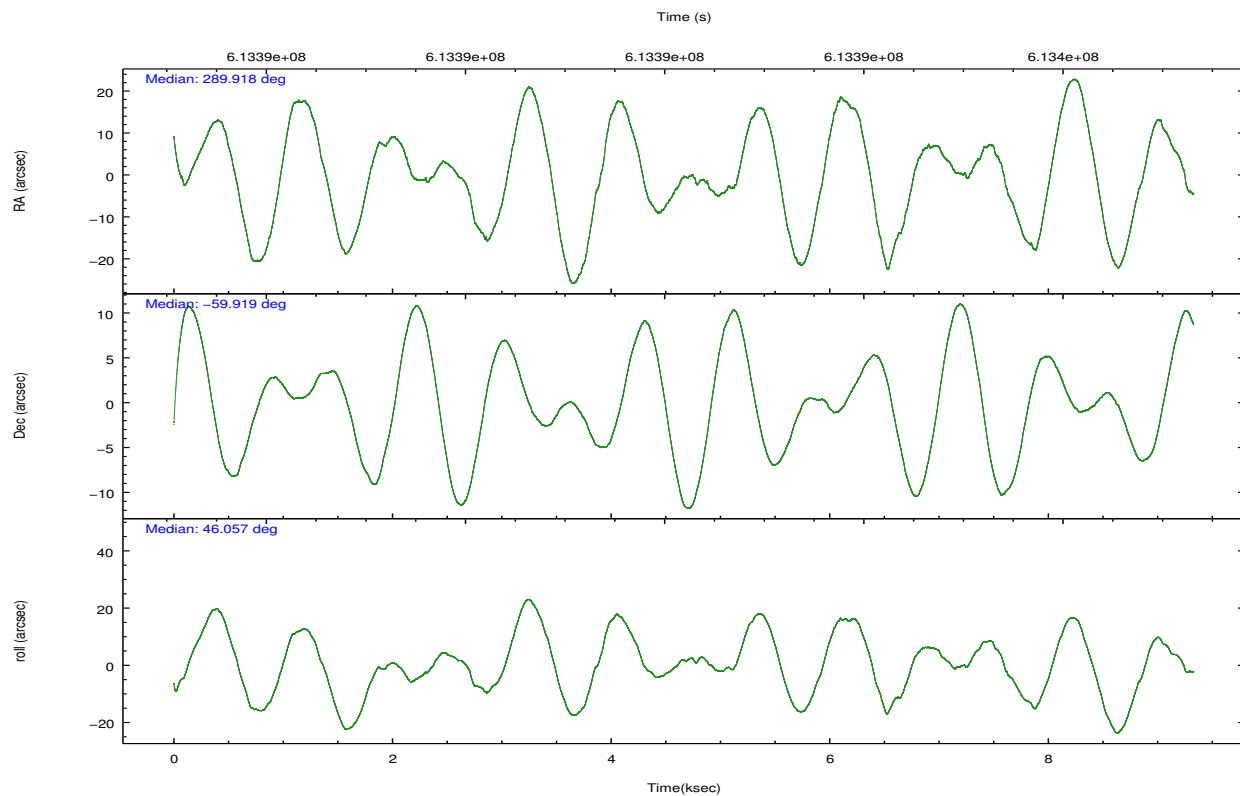
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	2241	7601	2201	2797	6081
	3%	6%	3%	3%	6%
grade 1 events	35	1311	33	119	65
	0%	1%	0%	0%	0%
grade 2 events	1491	16662	2030	7746	5176
	2%	14%	2%	9%	5%
grade 3 events	630	1542	637	2474	2179
	0%	1%	0%	2%	2%
grade 4 events	685	1480	642	2465	2025
	1%	1%	0%	2%	2%
grade 5 events	2811	6596	2761	7609	4337
	4%	5%	3%	8%	4%
grade 6 events	1461	28253	2028	20172	5890
	2%	25%	2%	23%	6%
grade 7 events	57376	49028	62371	41520	62510
	85%	43%	85%	48%	70%

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	289.905314	289.9178351803537	CCD I2 on	O1	N
[deg] Pointing Dec	-59.945824	-59.91902192020734	CCD I3 on	O2	Y
[deg] Pointing Roll	45.900981	46.06842098295984	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	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	Y	Y
[s] Observation start time (MET)	613387858.184000	613386832.03749	CCD S5 on	N	N
Observation start date	2017-06-09T09:29:49	2017-06-09T09:13:52	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	613396858.184000	613397745.21312	On-chip summing requested	N	N
Observation end date	2017-06-09T11:59:49	2017-06-09T12:15:45	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



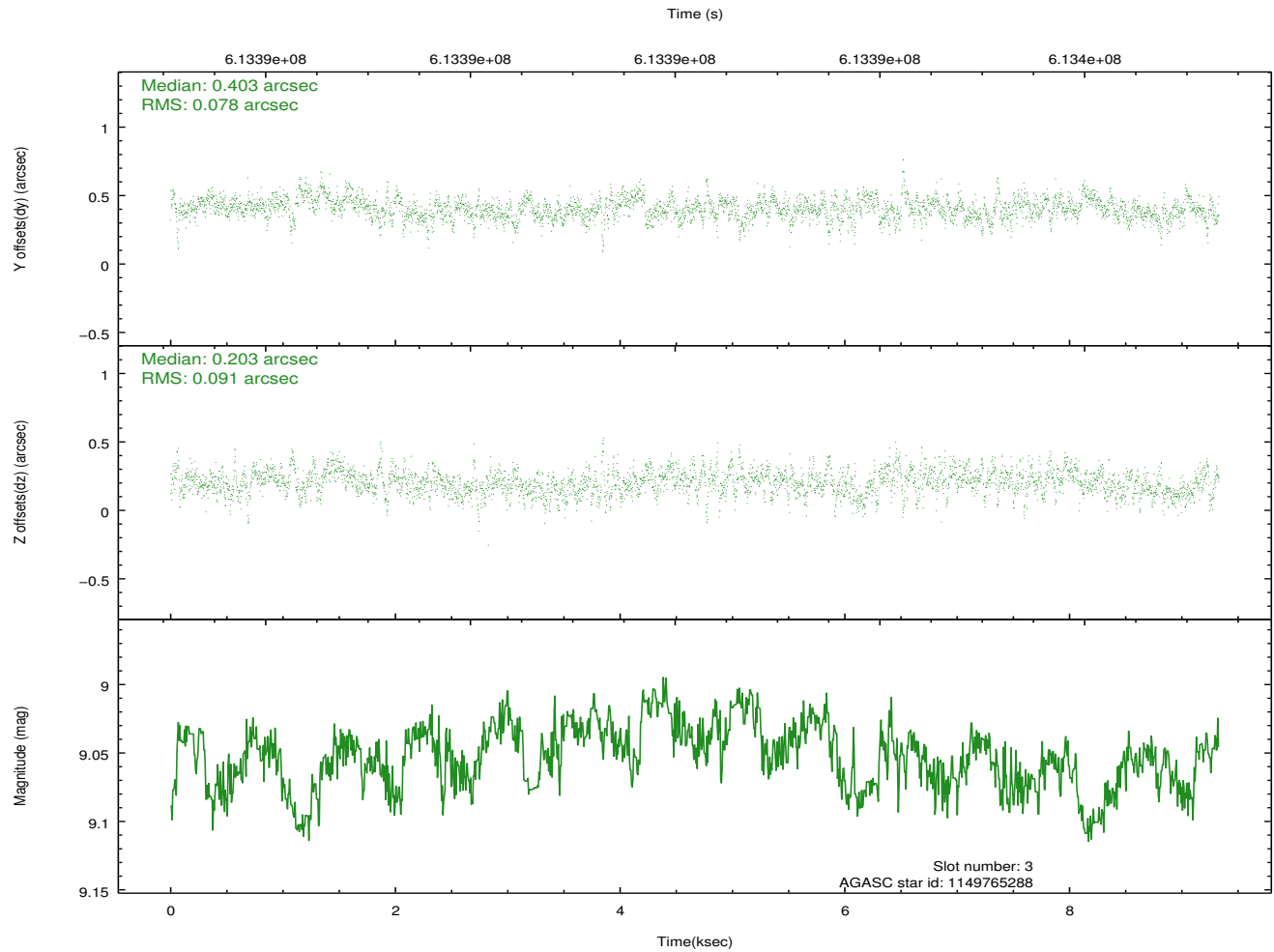
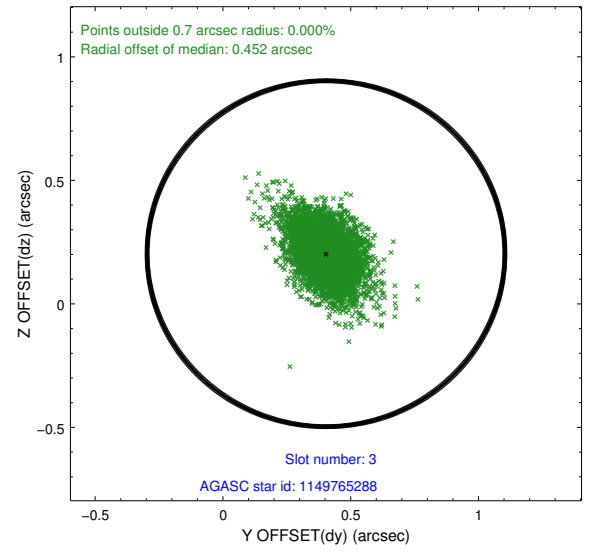
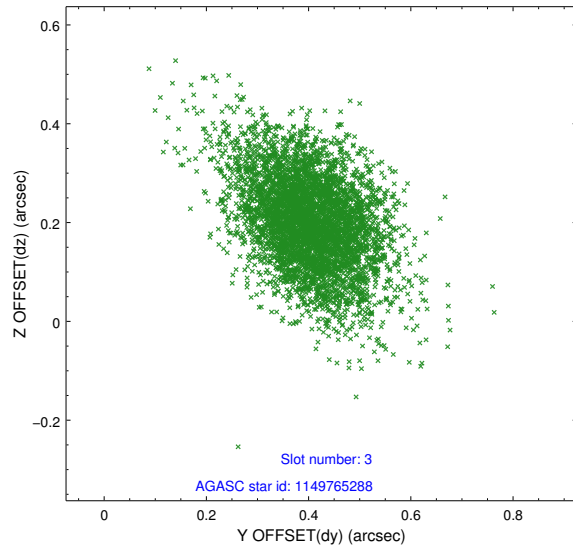


Slot Statistics

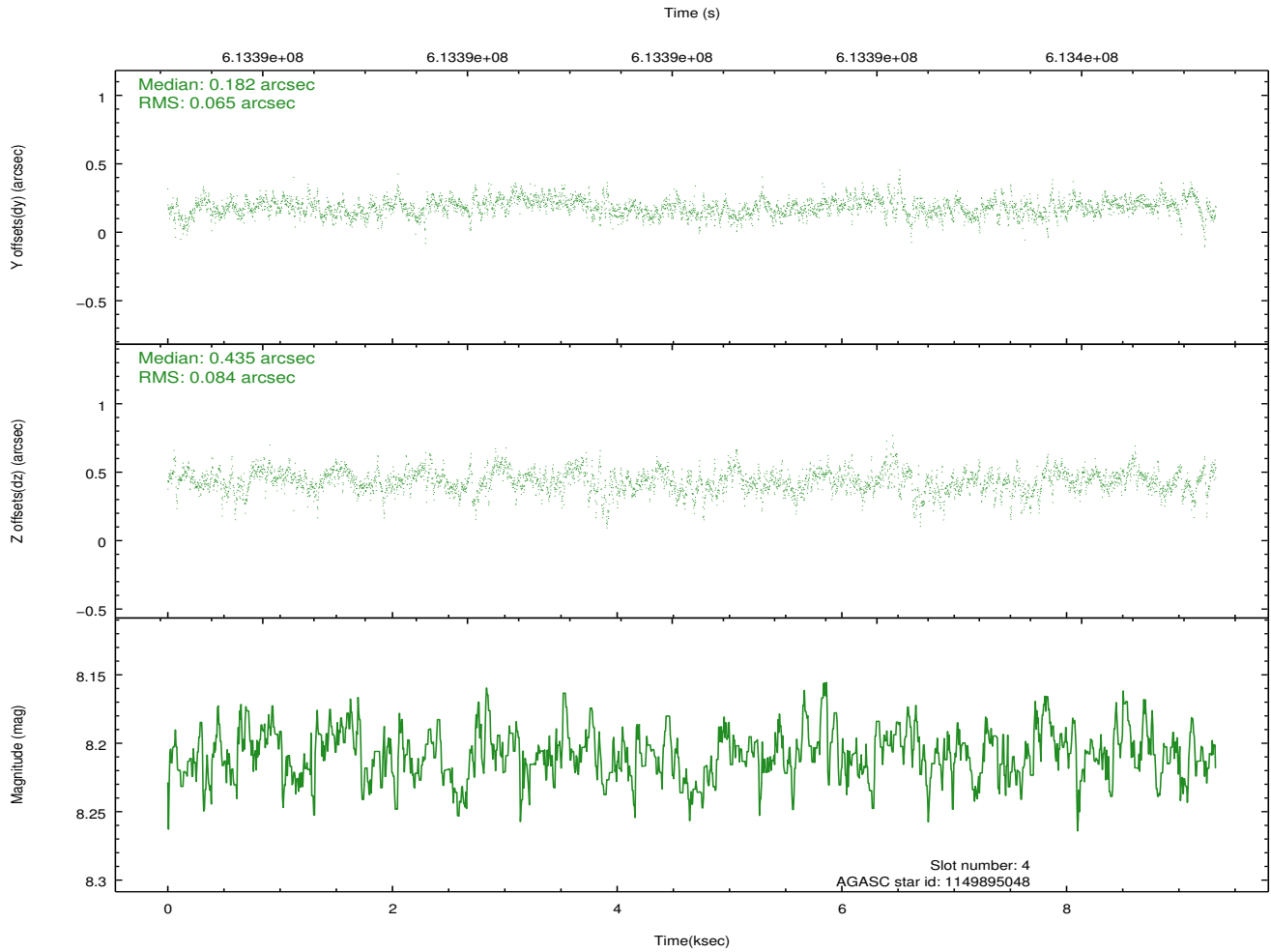
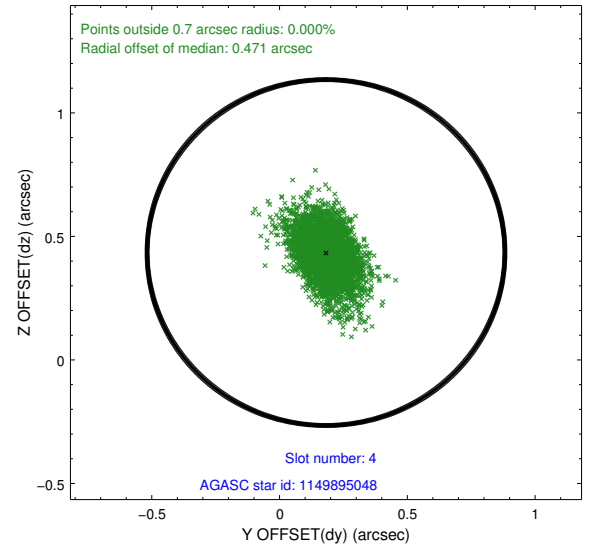
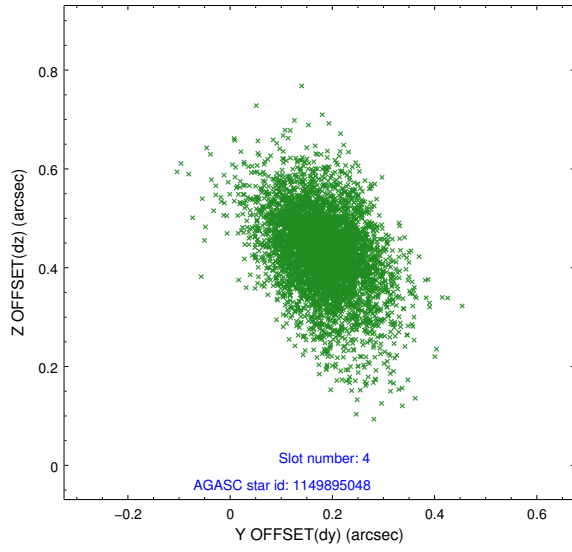
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.13	2276	-0.176	-0.094	0.010	0.020	0.000000	0.000000	-759.59	-1735.60
1	FID		ACIS-S-4	7.25	2276	0.365	0.110	0.007	0.011	0.000000	0.000000	2153.95	172.51
2	FID		ACIS-S-5	7.25	2276	-0.220	-0.007	0.010	0.016	0.000000	0.000000	-1811.74	166.69
3	GUIDE	used	1149765288	9.05	4551	0.403	0.203	0.121	0.213	288.533709	-59.930458	-1700.20	1797.10
4	GUIDE	used	1149895048	8.21	4550	0.182	0.435	0.106	0.194	290.983764	-59.972626	1271.45	-1472.34
5	GUIDE	used	1188969296	9.60	4541	0.067	0.439	0.165	0.293	290.912905	-60.269185	404.93	-2112.48
6	GUIDE	used	1149777656	9.42	4546	-0.393	-0.613	0.176	0.291	289.477061	-59.225335	1311.25	2368.85
7	GUIDE	used	1149772456	8.78	4549	-0.262	-0.459	0.141	0.234	289.727605	-59.300863	1439.57	1850.31

2.4 Star Slots

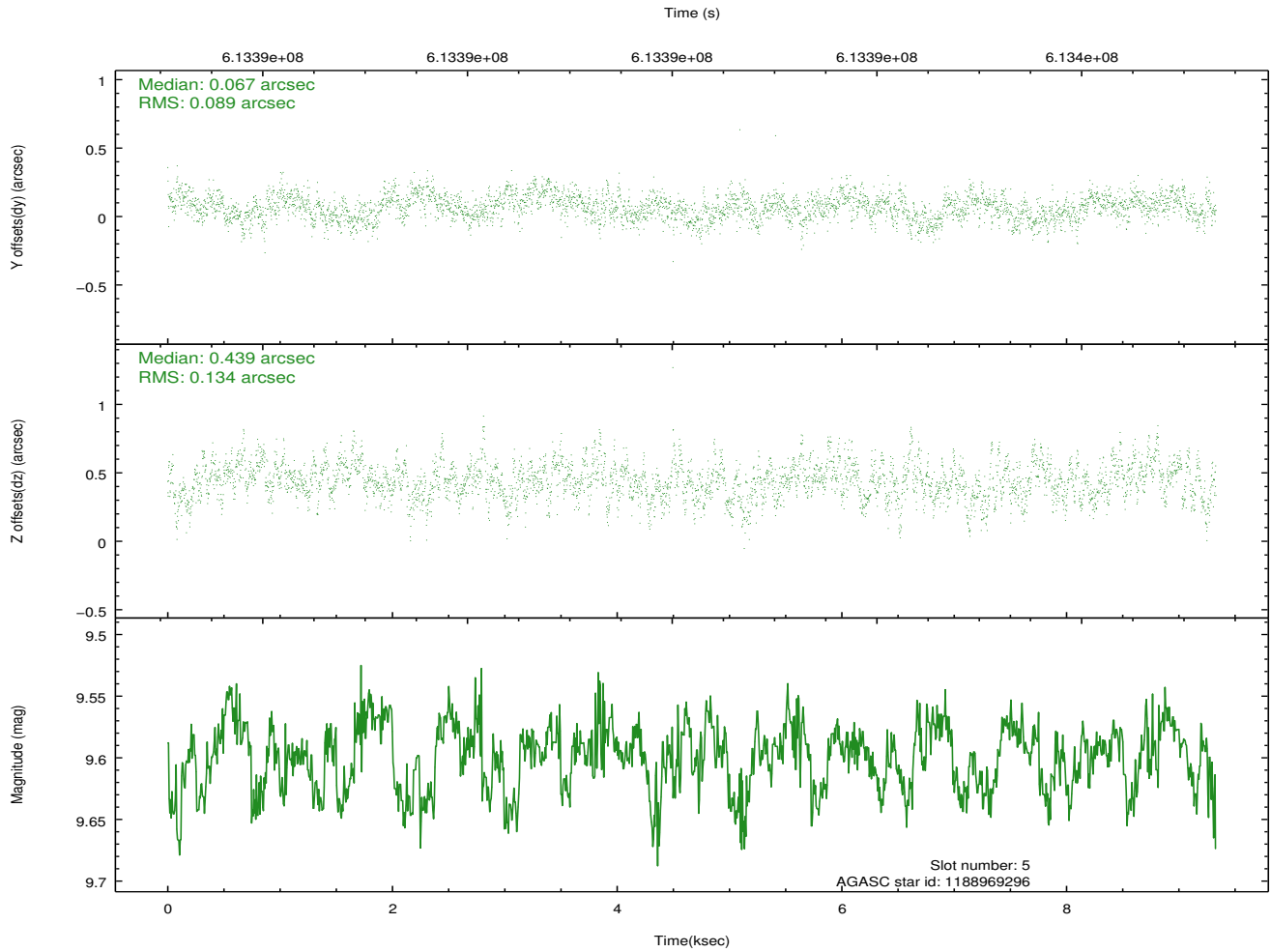
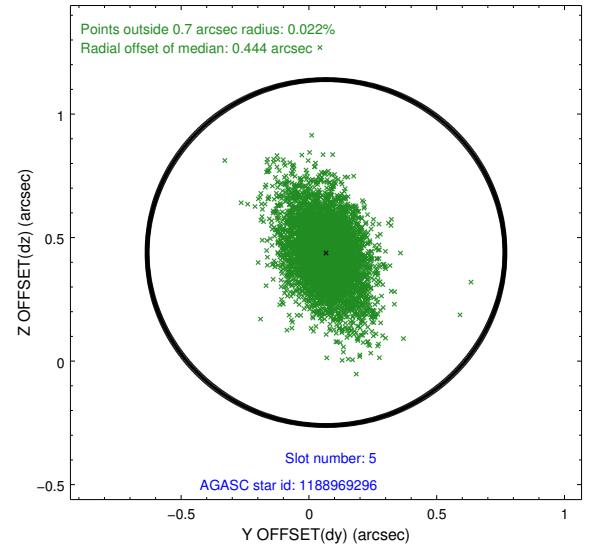
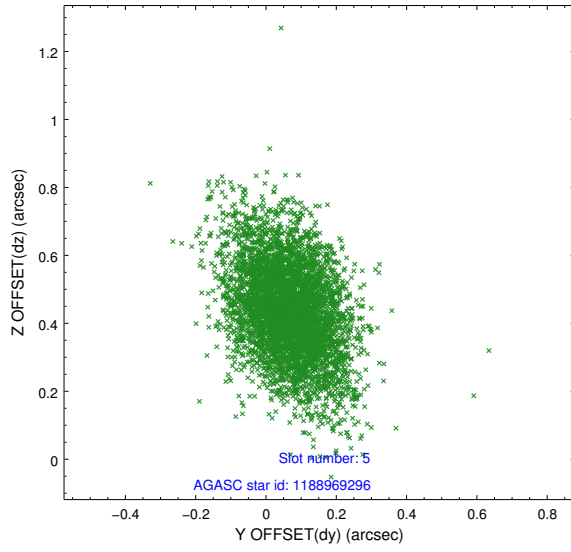
2.4.1 Slot 3



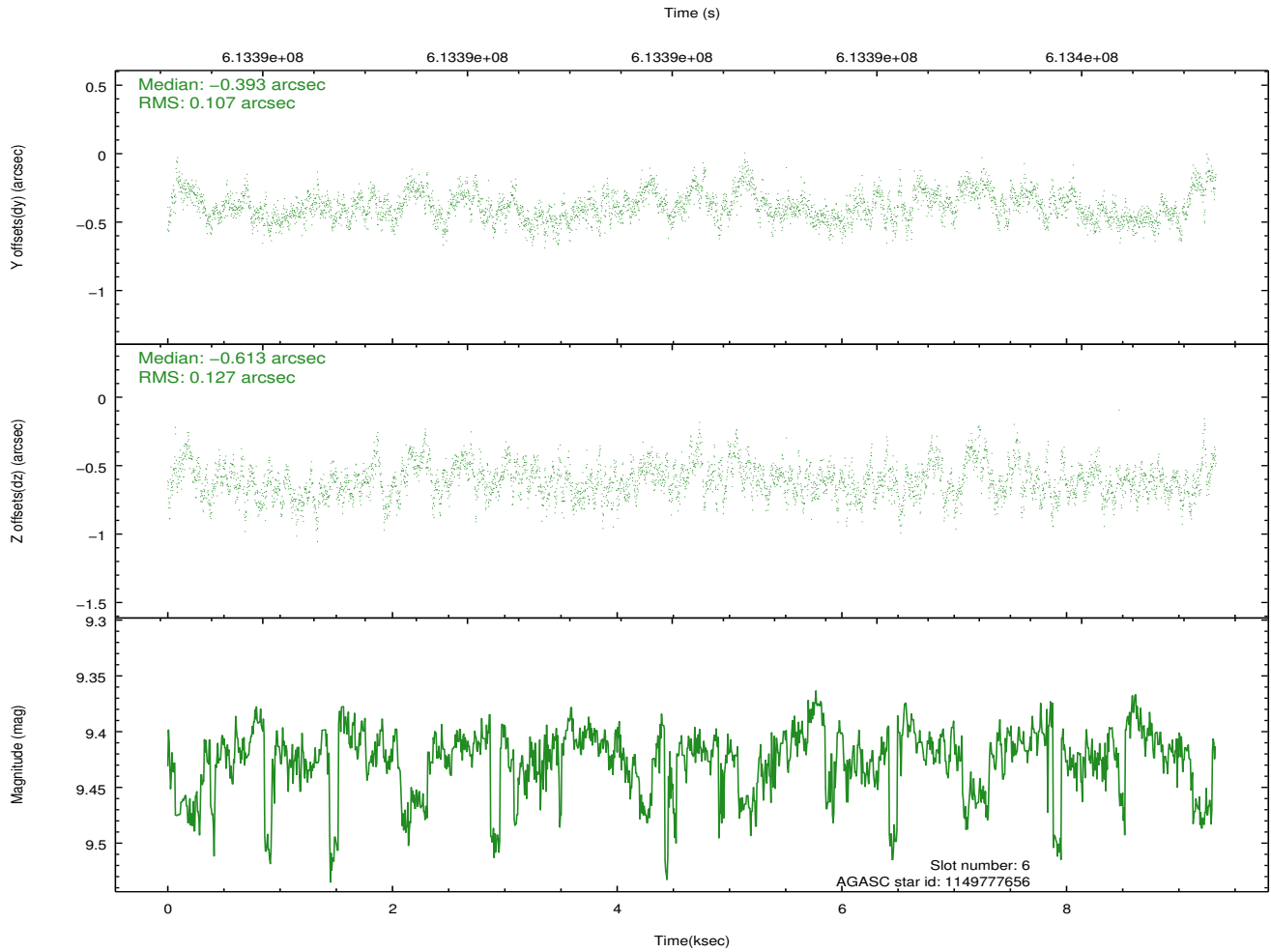
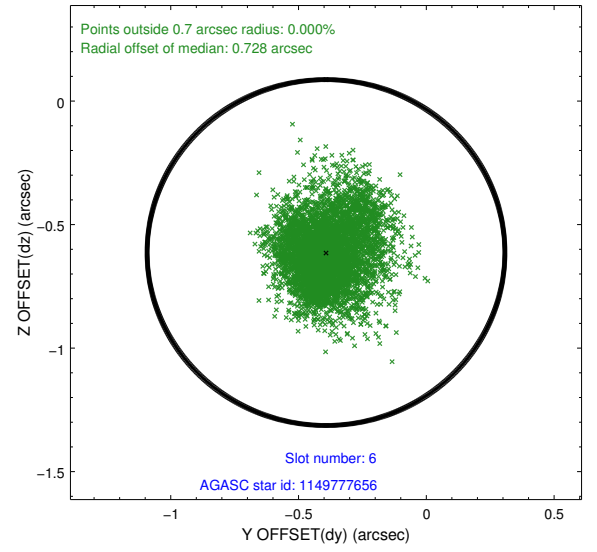
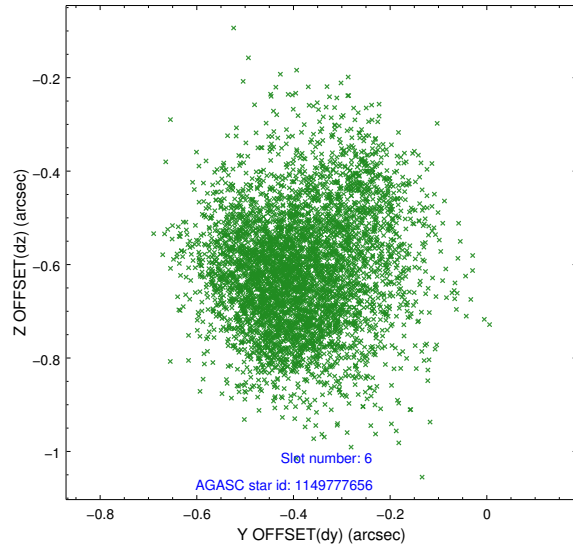
2.4.2 Slot 4



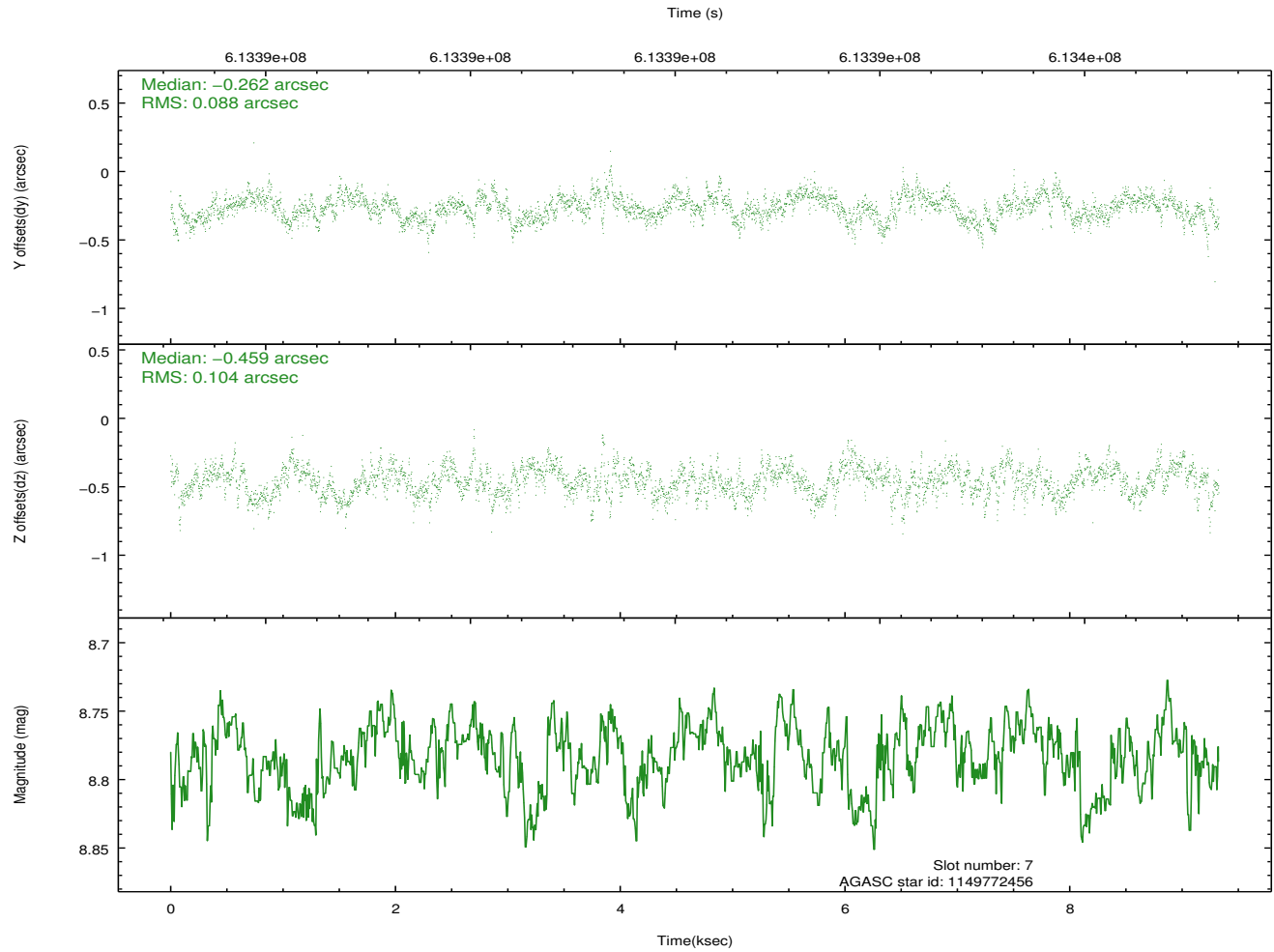
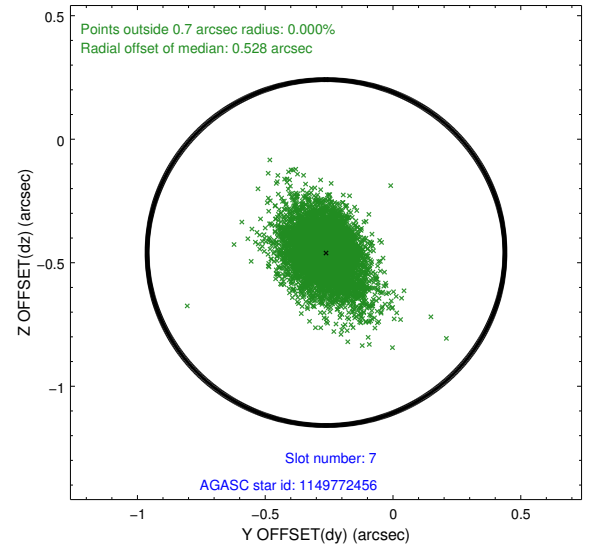
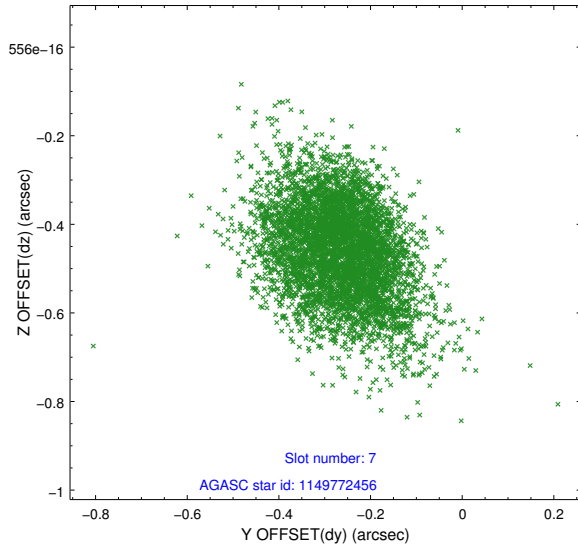
2.4.3 Slot 5



2.4.4 Slot 6

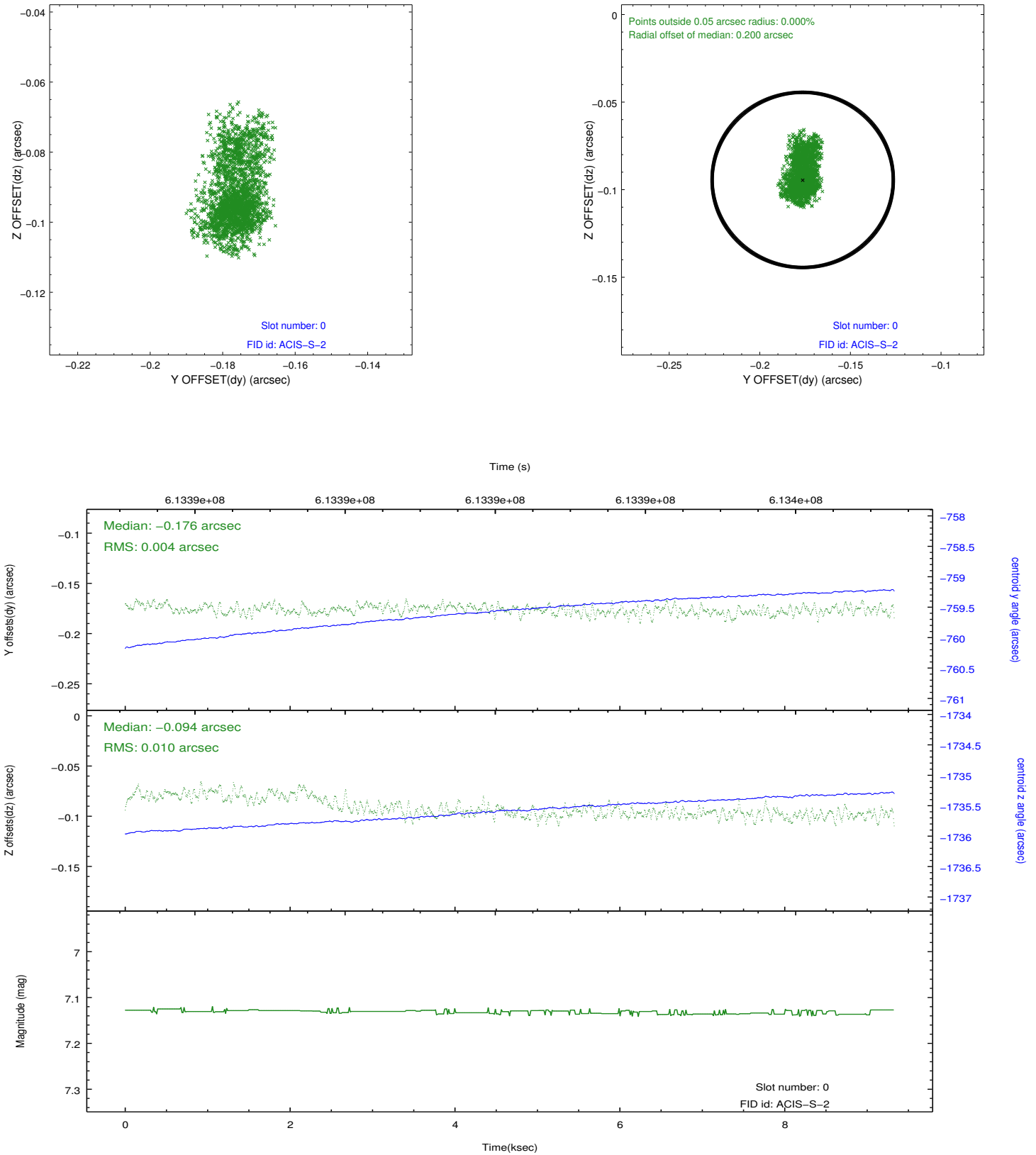


2.4.5 Slot 7

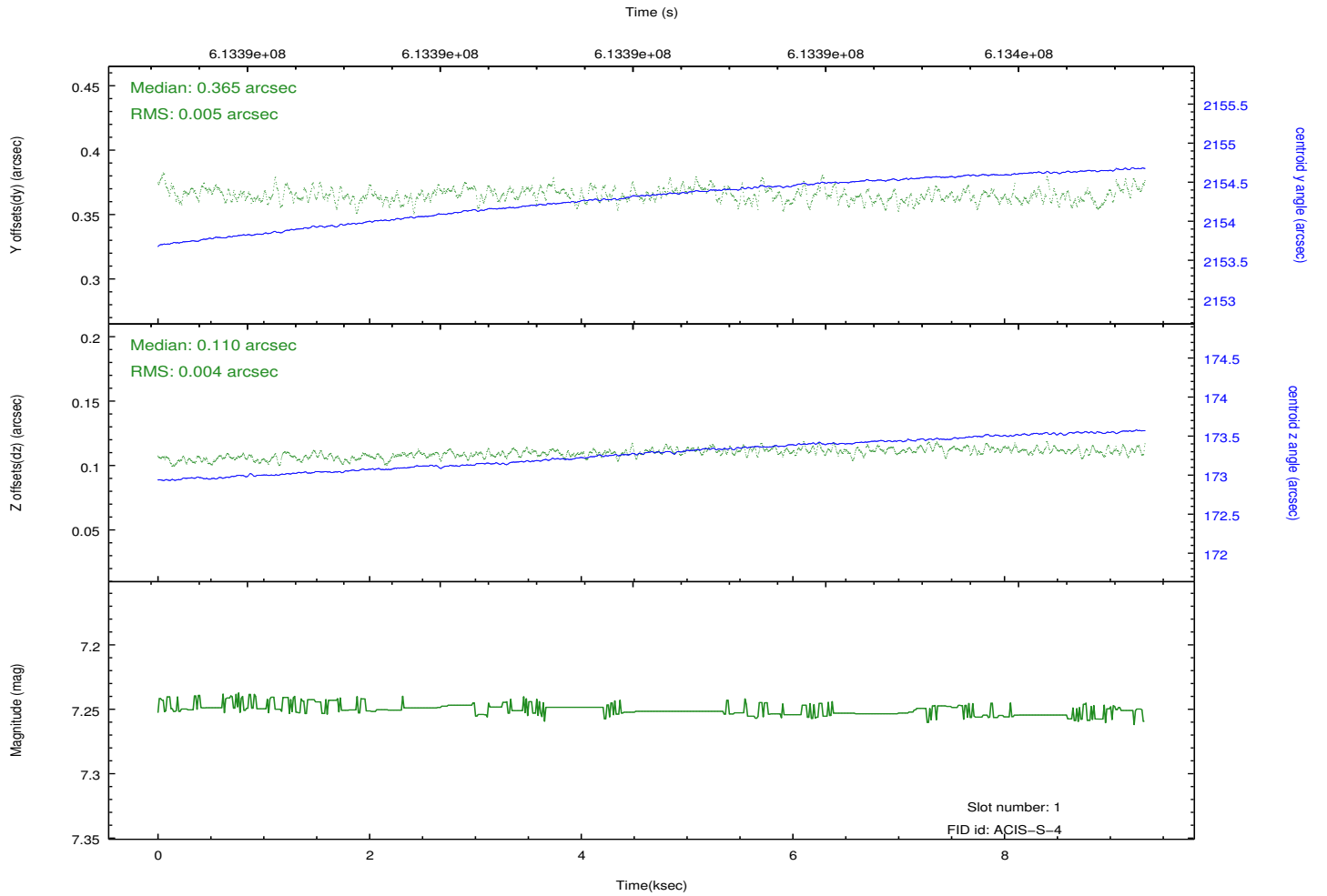
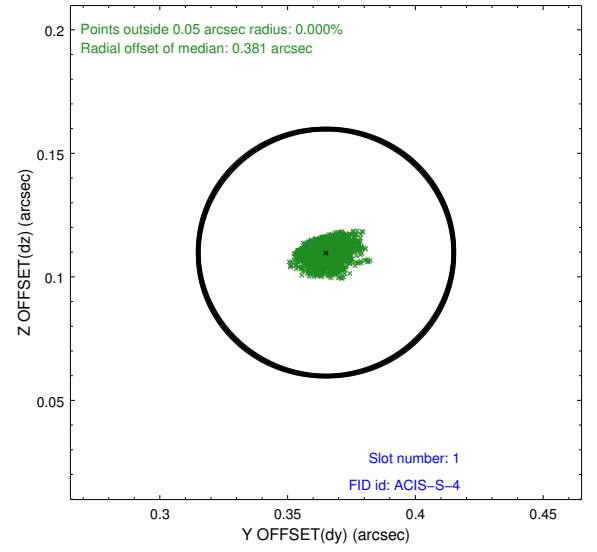
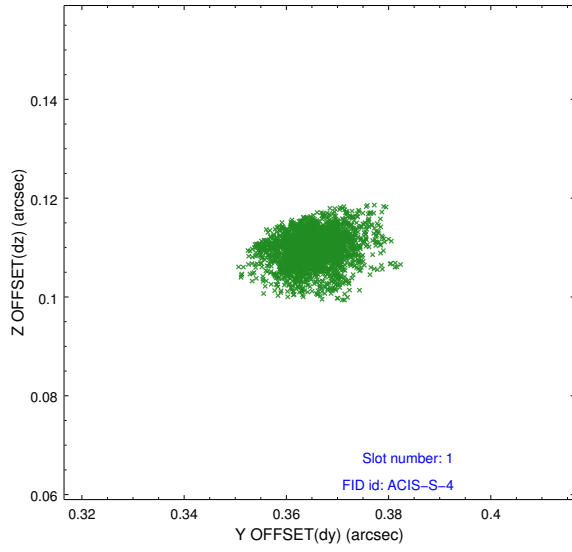


2.5 FID Slots

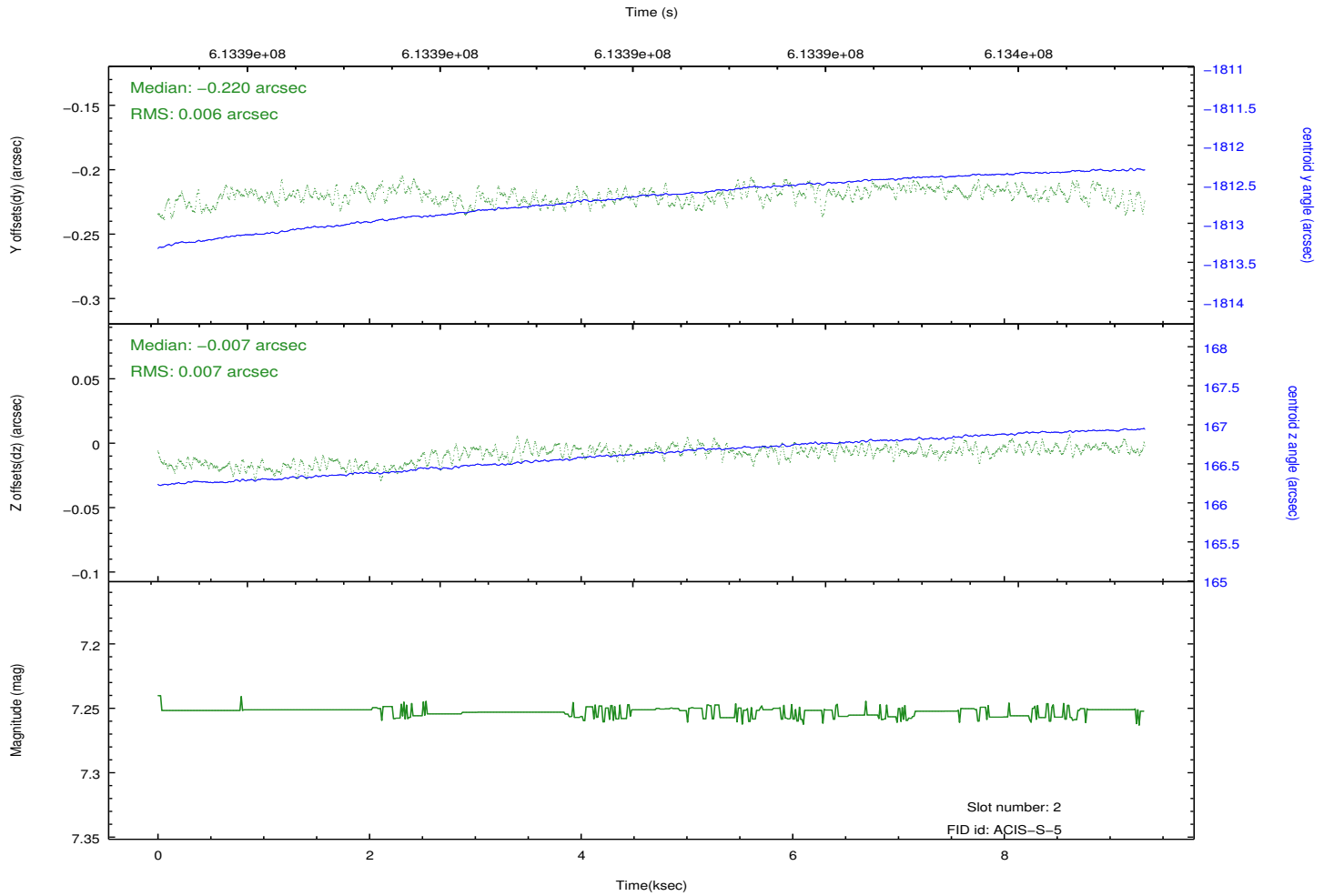
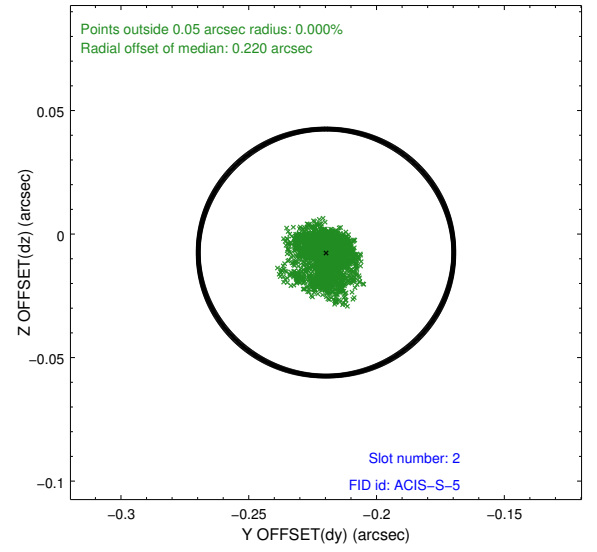
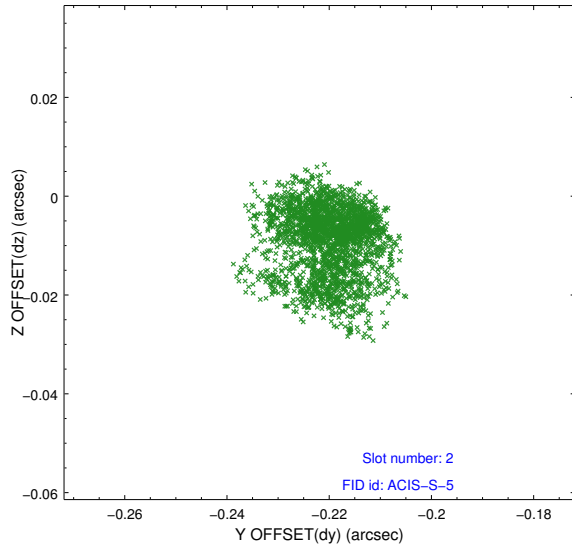
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2017.06.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.0506179523468

A.2 Comments