

V&V Reference Report

L2 ASCDS Version : 10.7

Observation 21296 - L2 Version 1
Chandra X-Ray Center

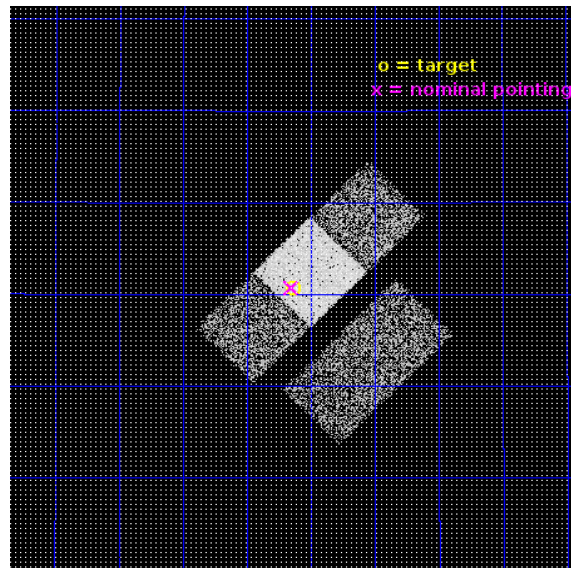
L2 Processing Date : Dec 1 2018

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

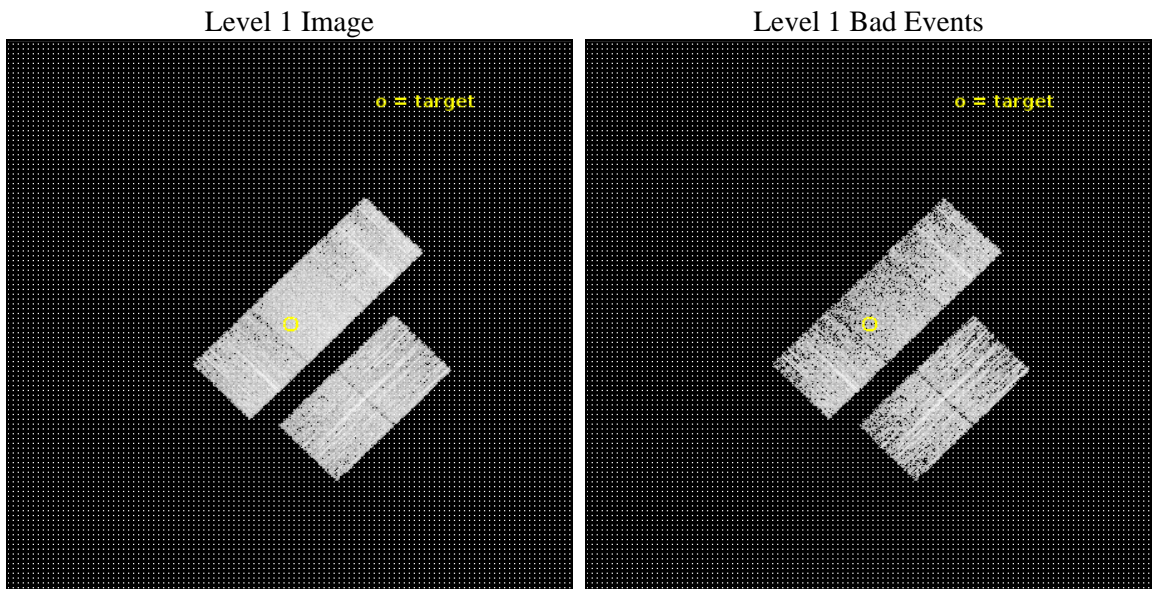
seq_num	503069	Sequence number
obs_id	21296	Observation id
title	Where Have All the Central Compact Objects Gone?	Proposal title
observer	Eric Gotthelf	Principal investigator
object	PSR J1920+2650	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	290.159583	Observer's specified target RA [deg]
dec_targ	26.844	Observer's specified target Dec [deg]
ra_nom	290.16326977831	Nominal RA [deg]
dec_nom	26.845340481504	Nominal Dec [deg]
roll_nom	314.71942658194	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3551.1901575327	Sum of GTIs [s]
livetime	3504.7912437764	Livetime [s]
ontime2	3551.0259975195	Sum of GTIs [s]
ontime3	3551.1080775261	Sum of GTIs [s]
ontime6	3551.149117589	Sum of GTIs [s]
ontime7	3551.1901575327	Sum of GTIs [s]
ontime8	3547.9259774685	Sum of GTIs [s]
l2events	25346	Number of level 2 events



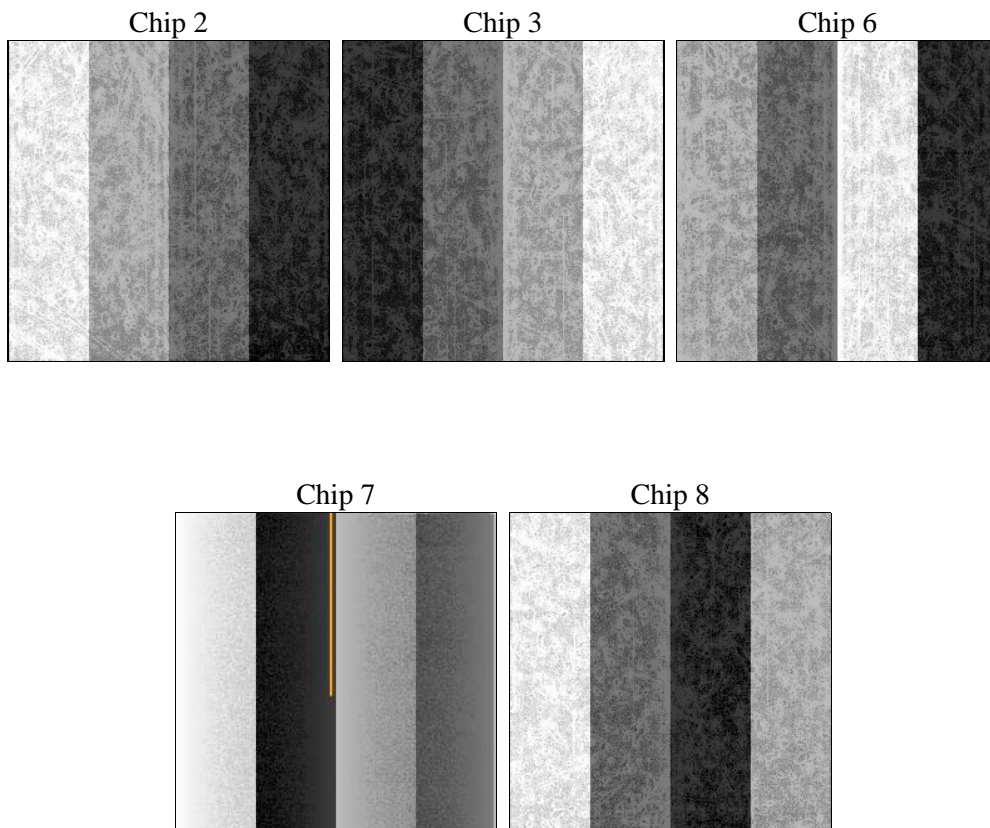
2 OBI

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	3551.1901575327	Sum of GTIs [s]
caldsver	4.8.0.1	 	ontime2	3551.0259975195	Sum of GTIs [s]
date	2018-12-01T16:37:57	Date and time of file creation	ontime3	3551.1080775261	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	3551.149117589	Sum of GTIs [s]
			ontime7	3551.1901575327	Sum of GTIs [s]
			ontime8	3547.9259774685	Sum of GTIs [s]
			l1events	155904	Number of level 1 events

2.1.4 Events

	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	27888	28250	27983	35621	36162
rejected events	25036	25482	24921	20321	27284
rejected %	89%	90%	89%	57%	75%

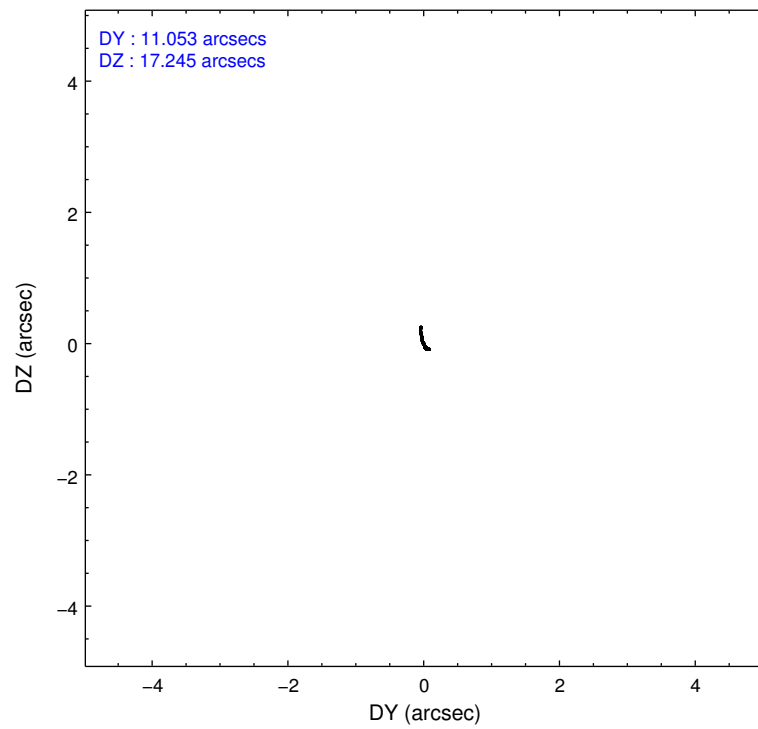
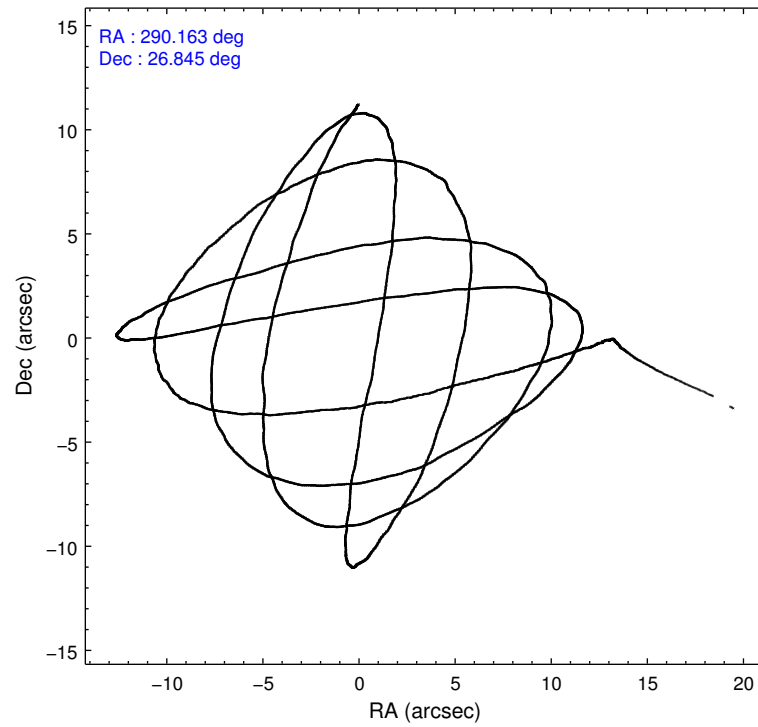
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	957	894	862	1231	2557
	3%	3%	3%	3%	7%
grade 1 events	17	17	17	46	35
	0%	0%	0%	0%	0%
grade 2 events	689	623	824	3155	2099
	2%	2%	2%	8%	5%
grade 3 events	298	289	300	1201	938
	1%	1%	1%	3%	2%
grade 4 events	308	289	246	1168	863
	1%	1%	0%	3%	2%
grade 5 events	1024	1261	1147	3350	1831
	3%	4%	4%	9%	5%
grade 6 events	603	674	836	8559	2446
	2%	2%	2%	24%	6%
grade 7 events	23992	24203	23751	16911	25393
	86%	85%	84%	47%	70%

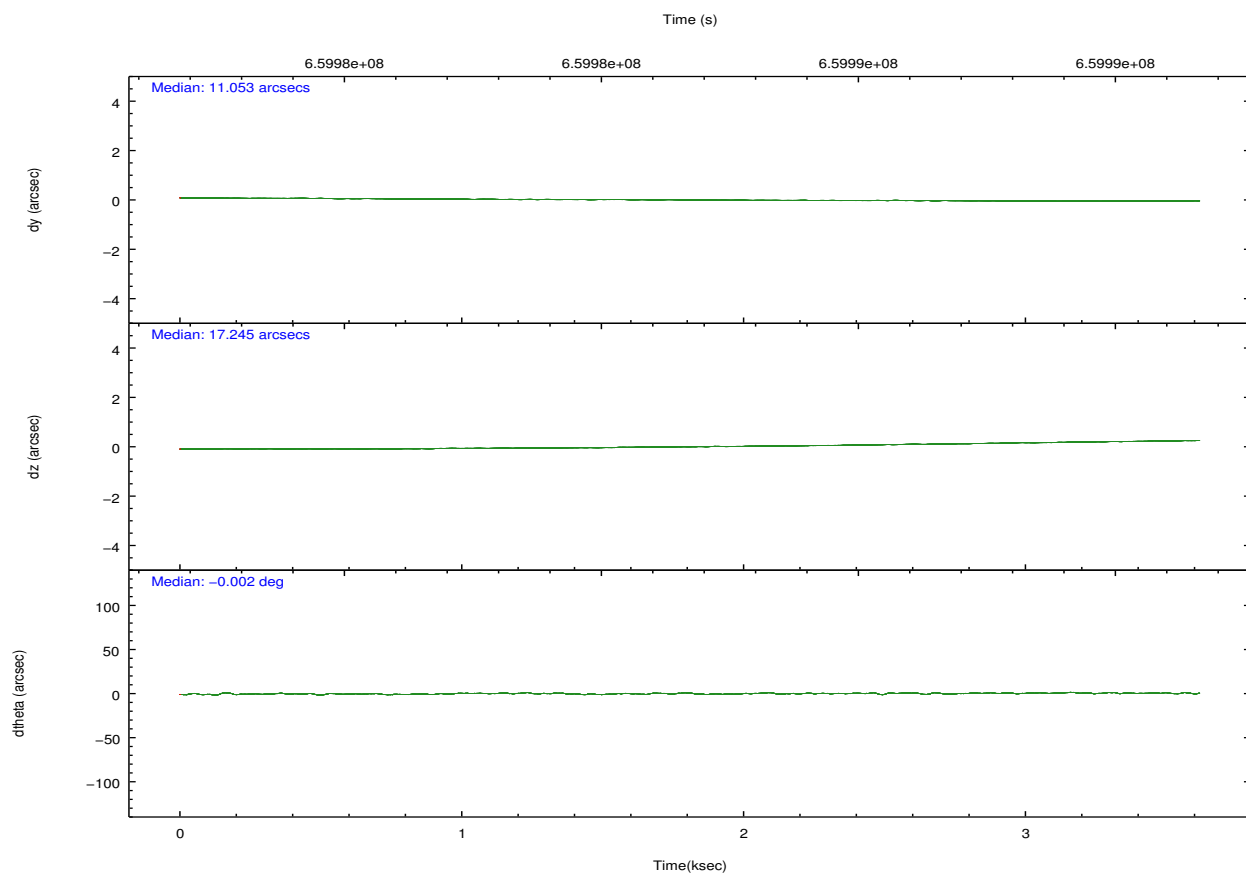
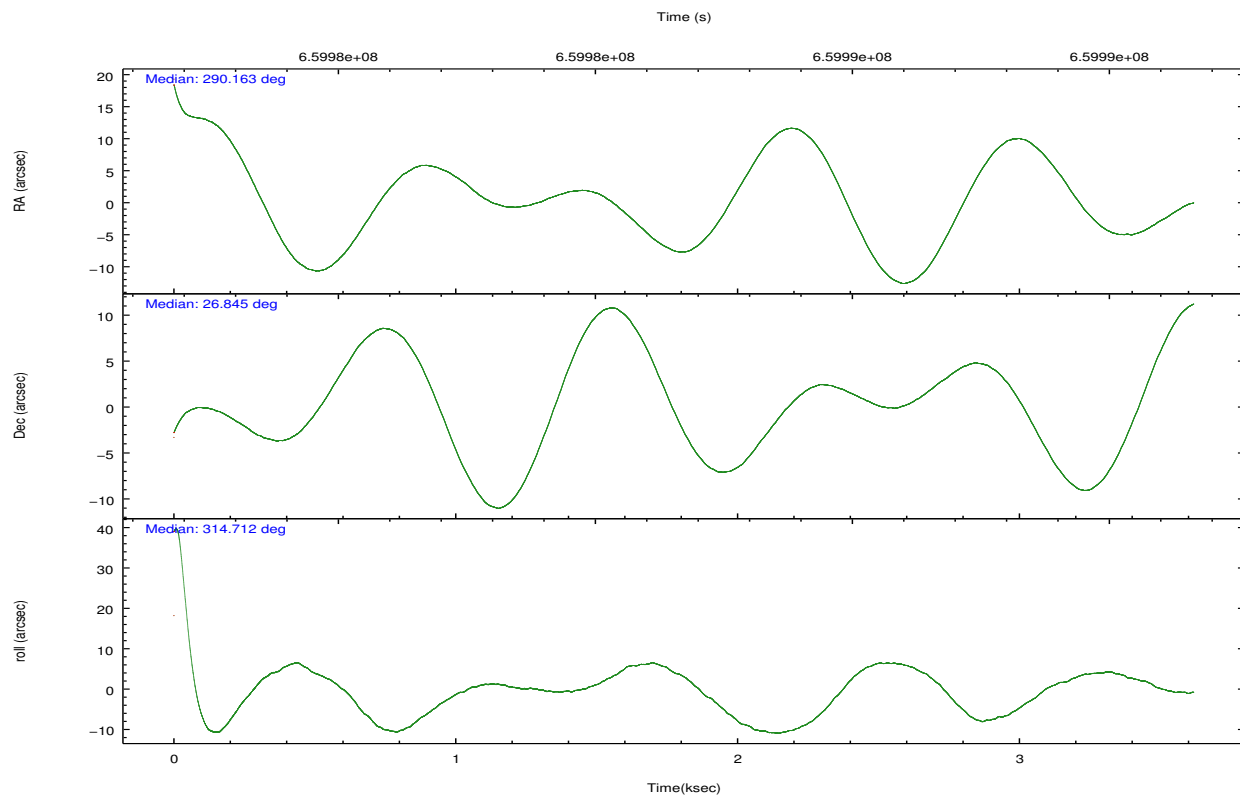
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-23678	ACIS-23678
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	290.133377	290.1632697783073
[deg] Pointing Dec	26.852239	26.84534048150379
[deg] Pointing Roll	314.576109	314.7194265819437
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1425803651734
[mm] SIM translation stage offset	0	0.01005778216563158
[s] Observation start time (MET)	659983667.184000	659982472.32583
Observation start date	2018-11-30T16:46:38	2018-11-30T16:27:52
[s] Observation end time (MET)	659987167.184000	659988529.5636899
Observation end date	2018-11-30T17:44:58	2018-11-30T18:08:49
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	N	N
CCD I1 on	N	N
CCD I2 on	O1	Y
CCD I3 on	O2	Y
CCD S0 on	N	N
CCD S1 on	N	N
CCD S2 on	Y	Y
CCD S3 on	Y	Y
CCD S4 on	Y	Y
CCD S5 on	N	N
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

2.3 Aspect



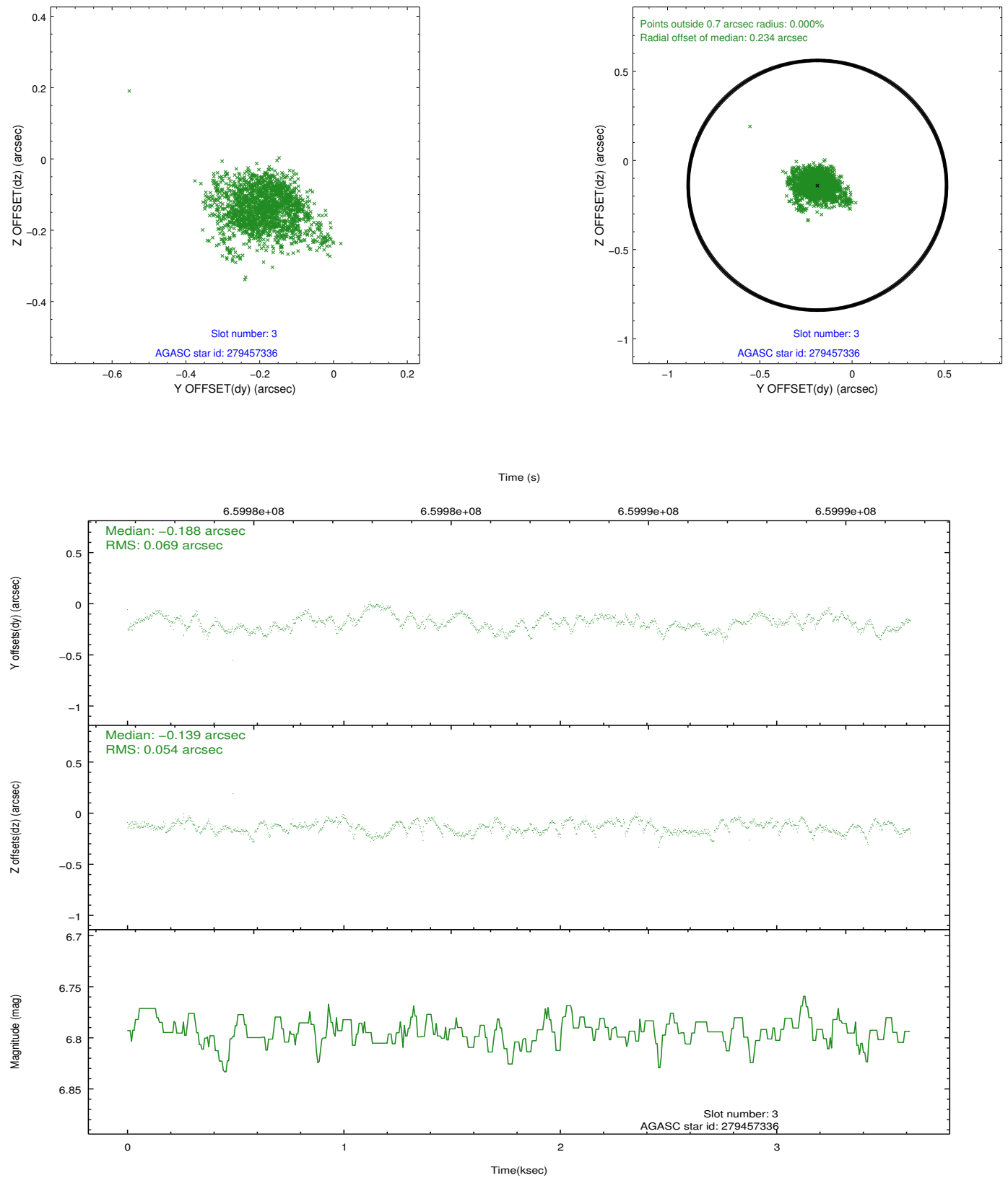


Slot Statistics

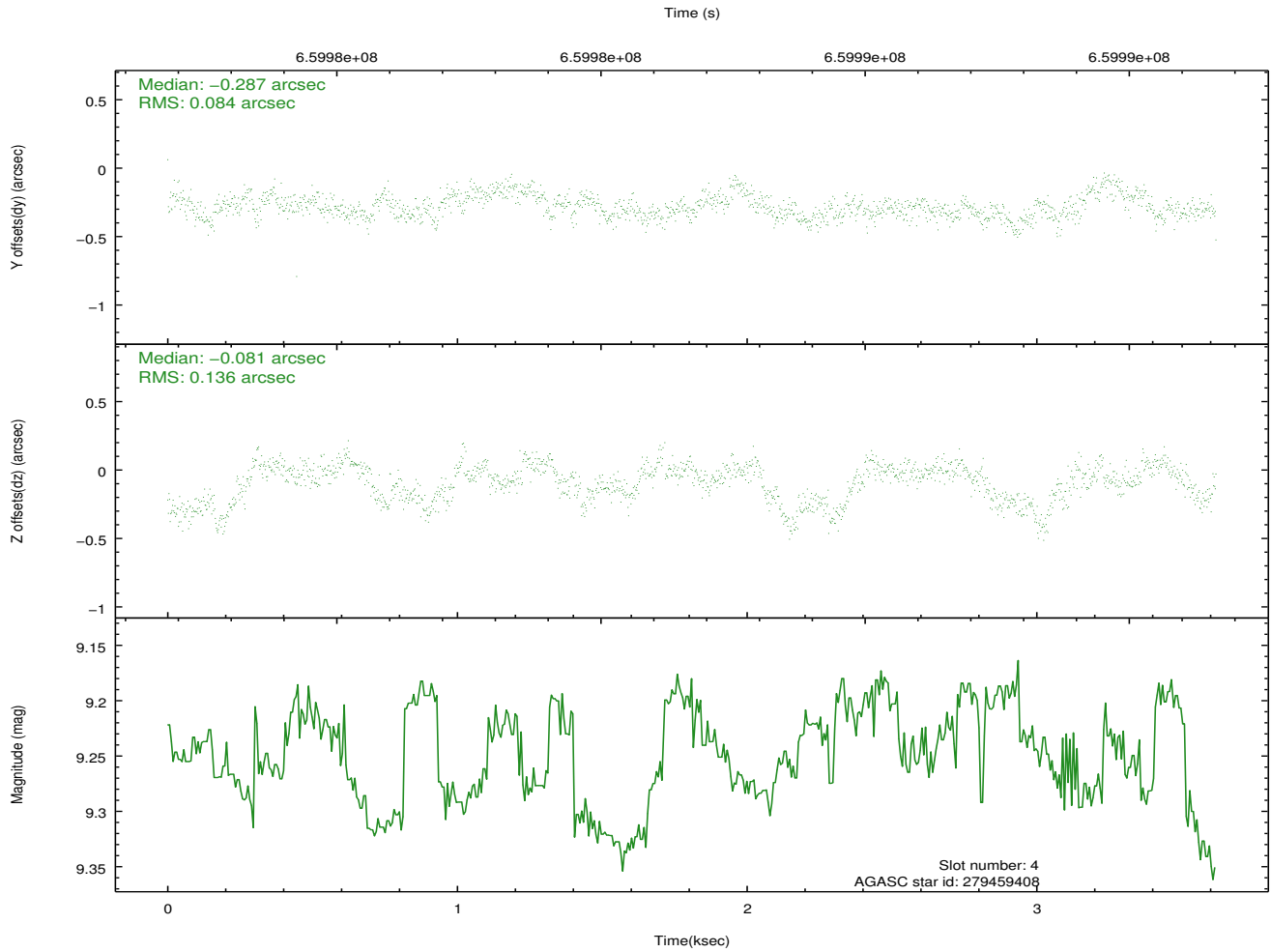
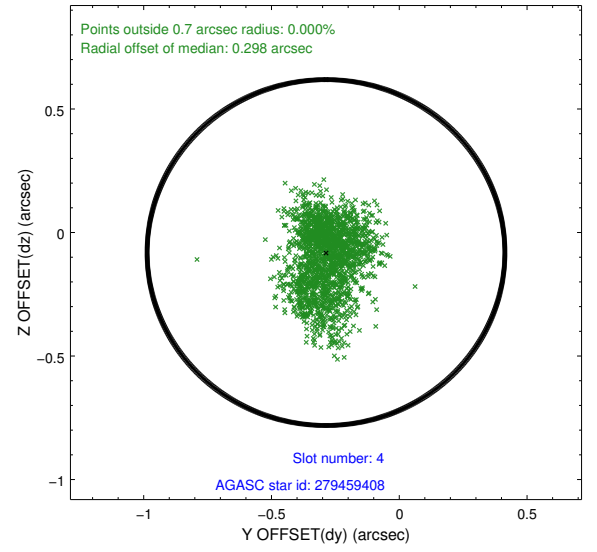
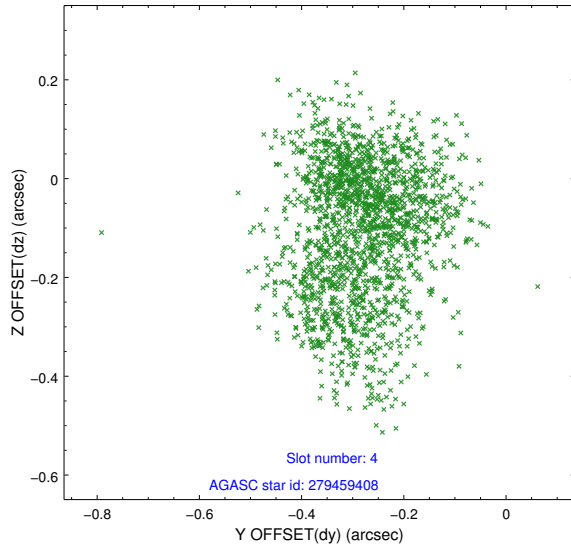
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.11	883	1.000	-0.024	-0.147	0.007	0.012	0.000000	0.000000	-764.01	-1738
1	FID		ACIS-S-5	7.24	883	1.000	-0.314	-0.024	0.007	0.011	0.000000	0.000000	-1818.14	161
2	FID		ACIS-S-6	7.39	883	1.000	0.312	0.179	0.006	0.010	0.000000	0.000000	396.15	807
3	GUIDE	used	279457336	6.79	1766	1.000	-0.188	-0.139	0.089	0.155	290.031165	26.662204	256.20	-714
4	GUIDE	used	279459408	9.25	1761	1.000	-0.287	-0.081	0.168	0.274	290.042256	27.241287	-1202.89	774
5	GUIDE	used	279460216	8.60	1764	1.000	0.031	0.277	0.089	0.145	289.256956	26.814292	-1886.02	-2094
6	GUIDE	used	279463464	9.00	1759	1.000	0.283	0.136	0.167	0.267	290.006946	26.850950	-282.31	-293
7	GUIDE	used	278930680	8.91	1763	1.000	0.167	-0.160	0.137	0.239	289.813914	26.235152	858.41	-2292

2.4 Star Slots

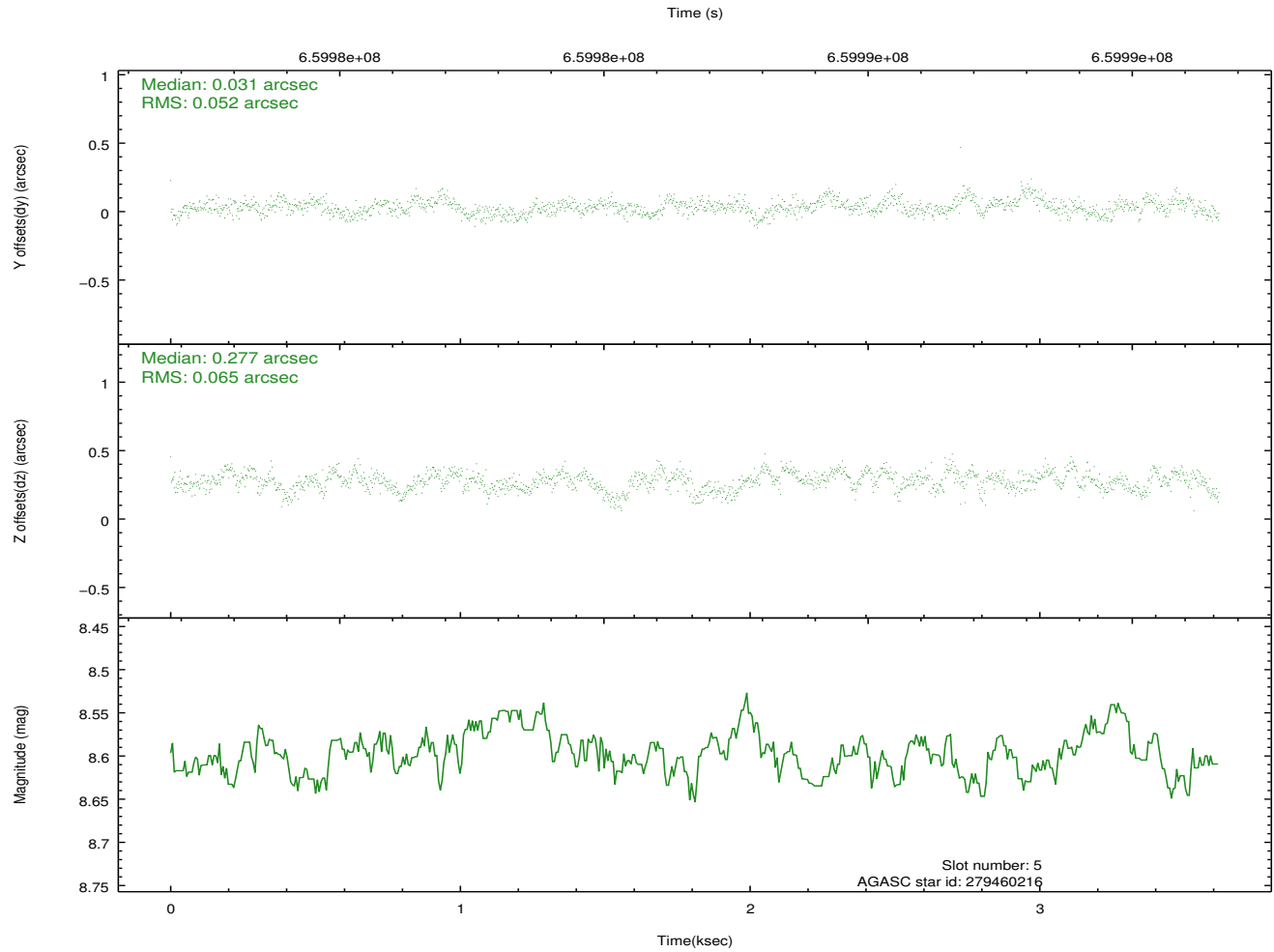
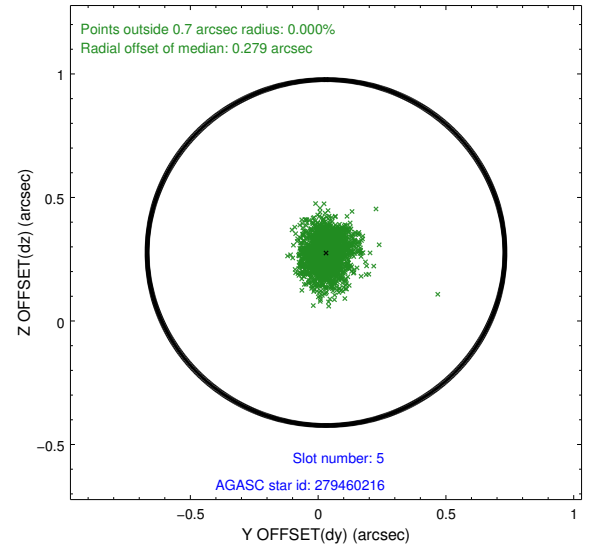
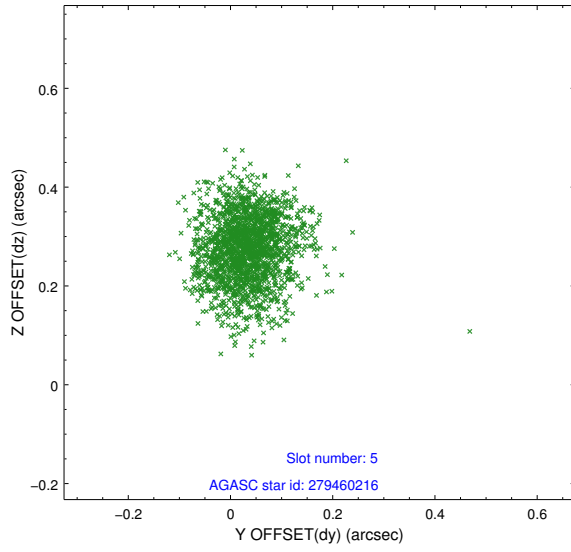
2.4.1 Slot 3



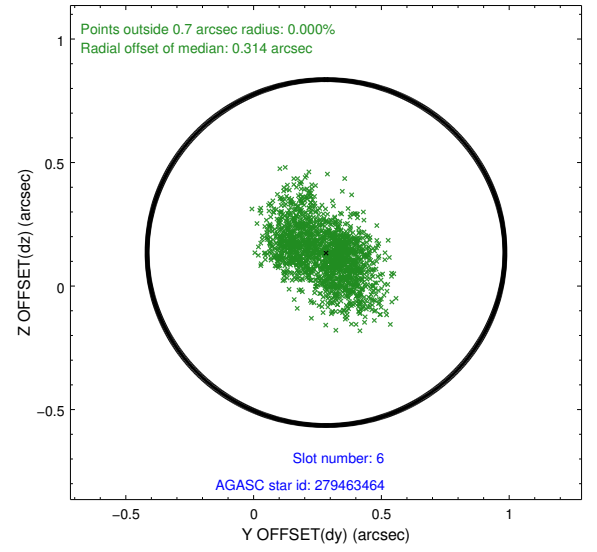
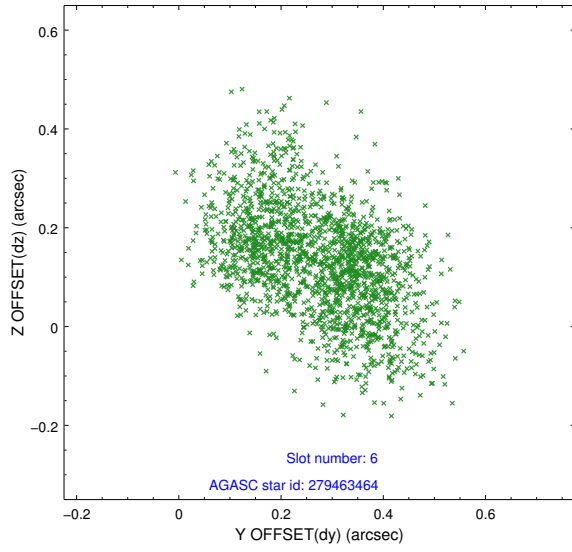
2.4.2 Slot 4



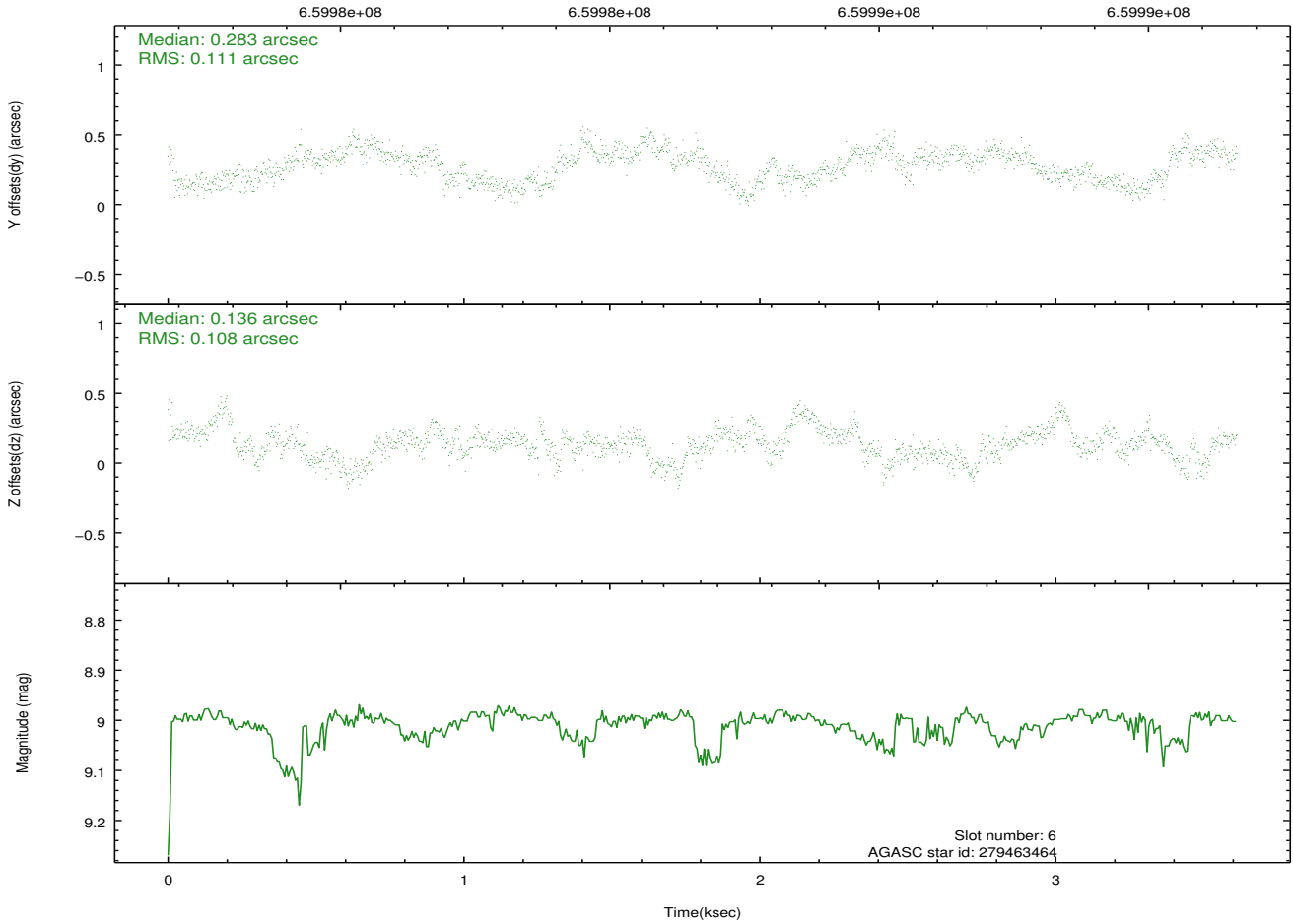
2.4.3 Slot 5



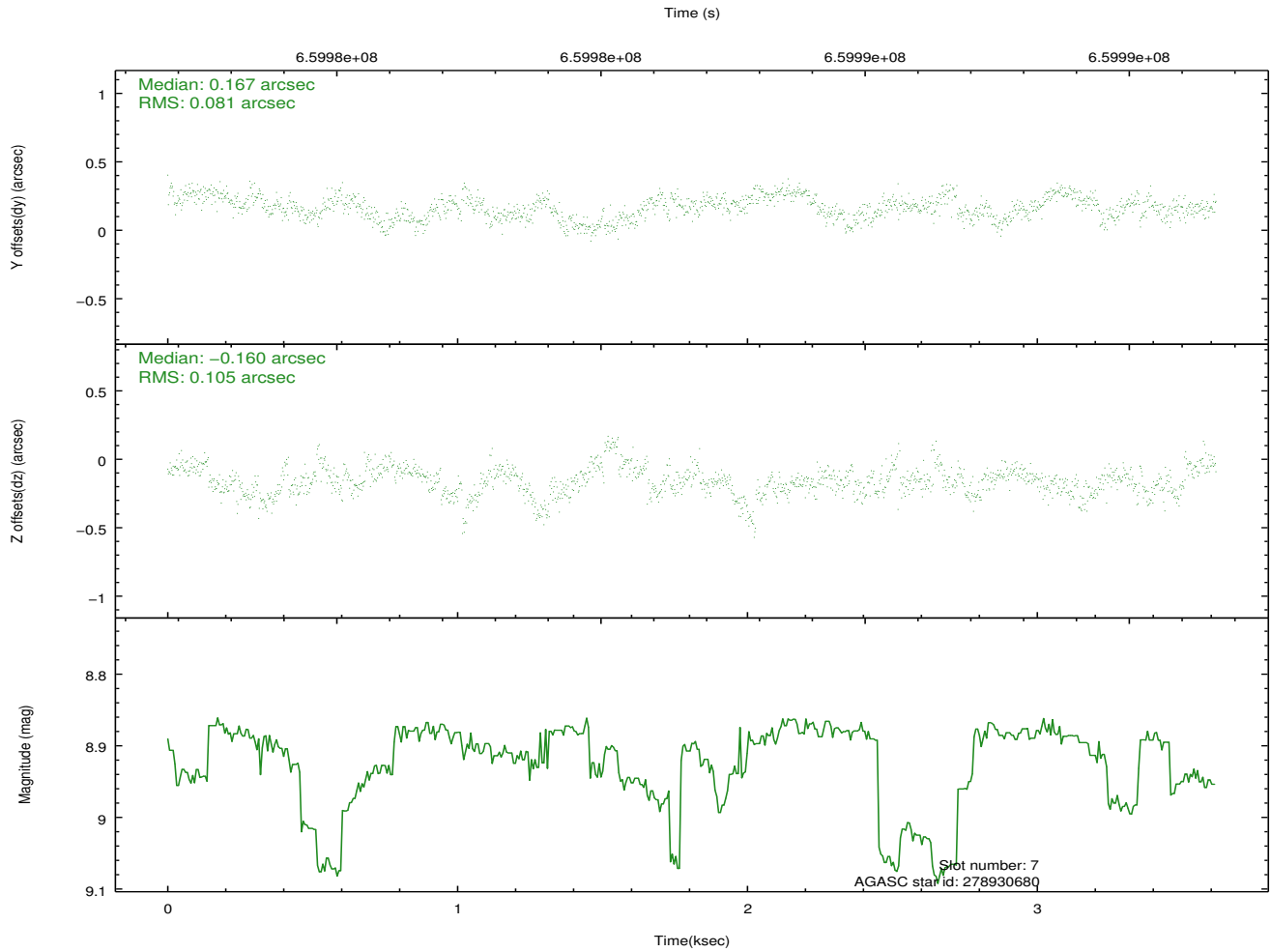
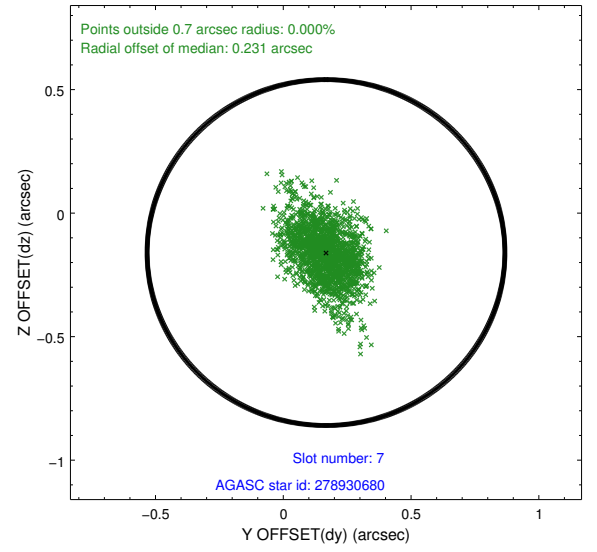
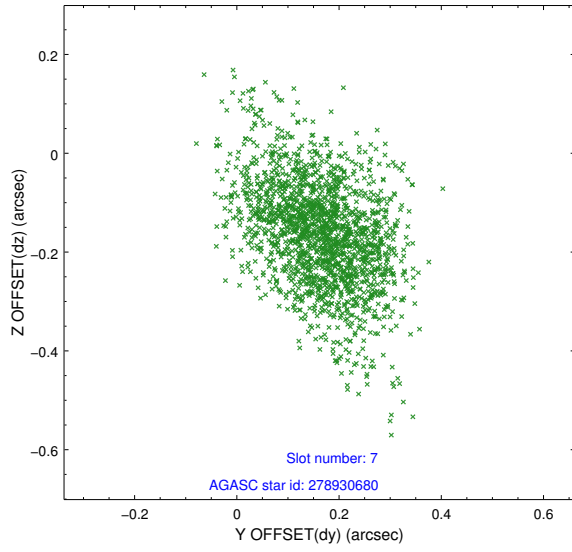
2.4.4 Slot 6



Time (s)

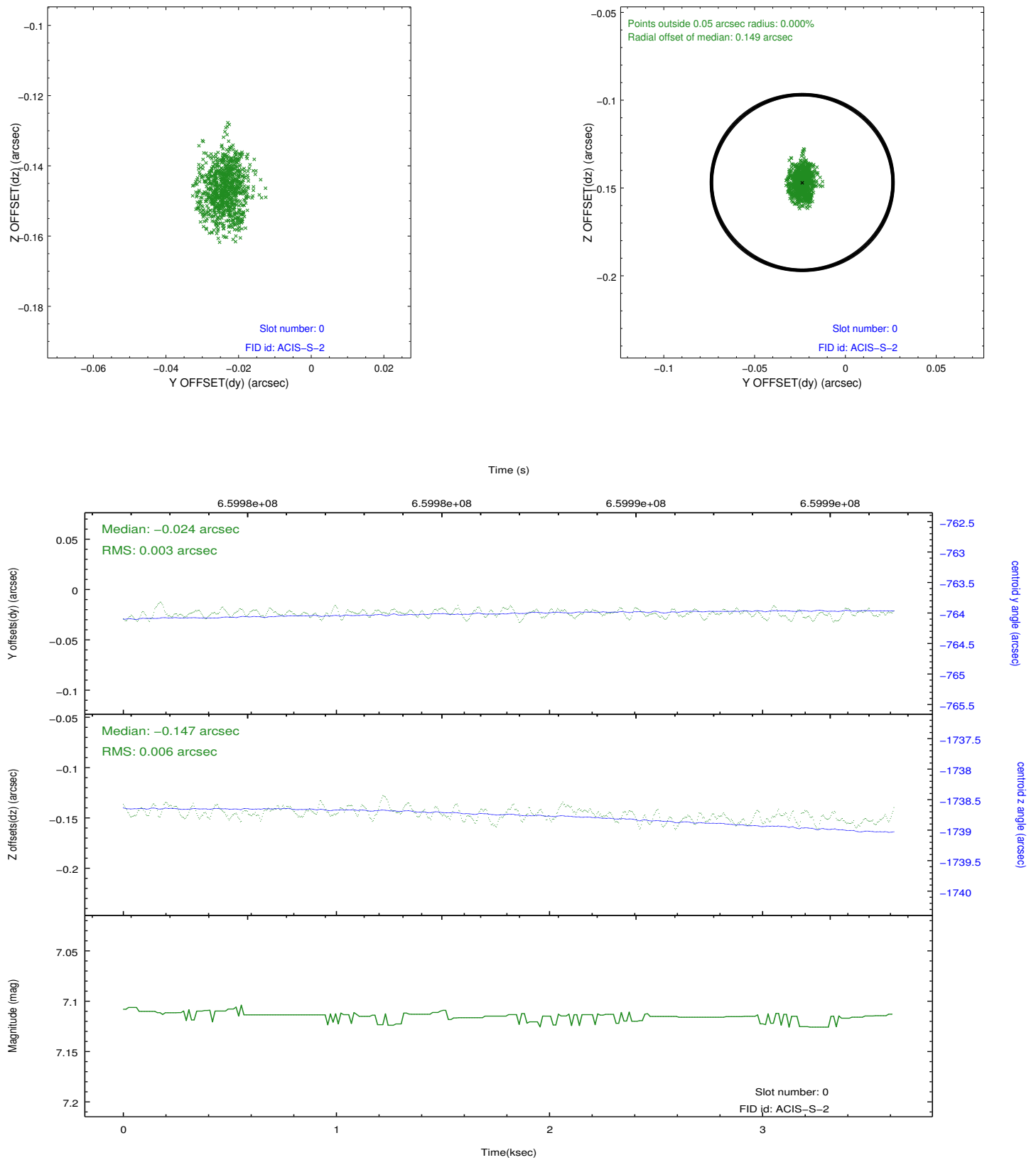


2.4.5 Slot 7

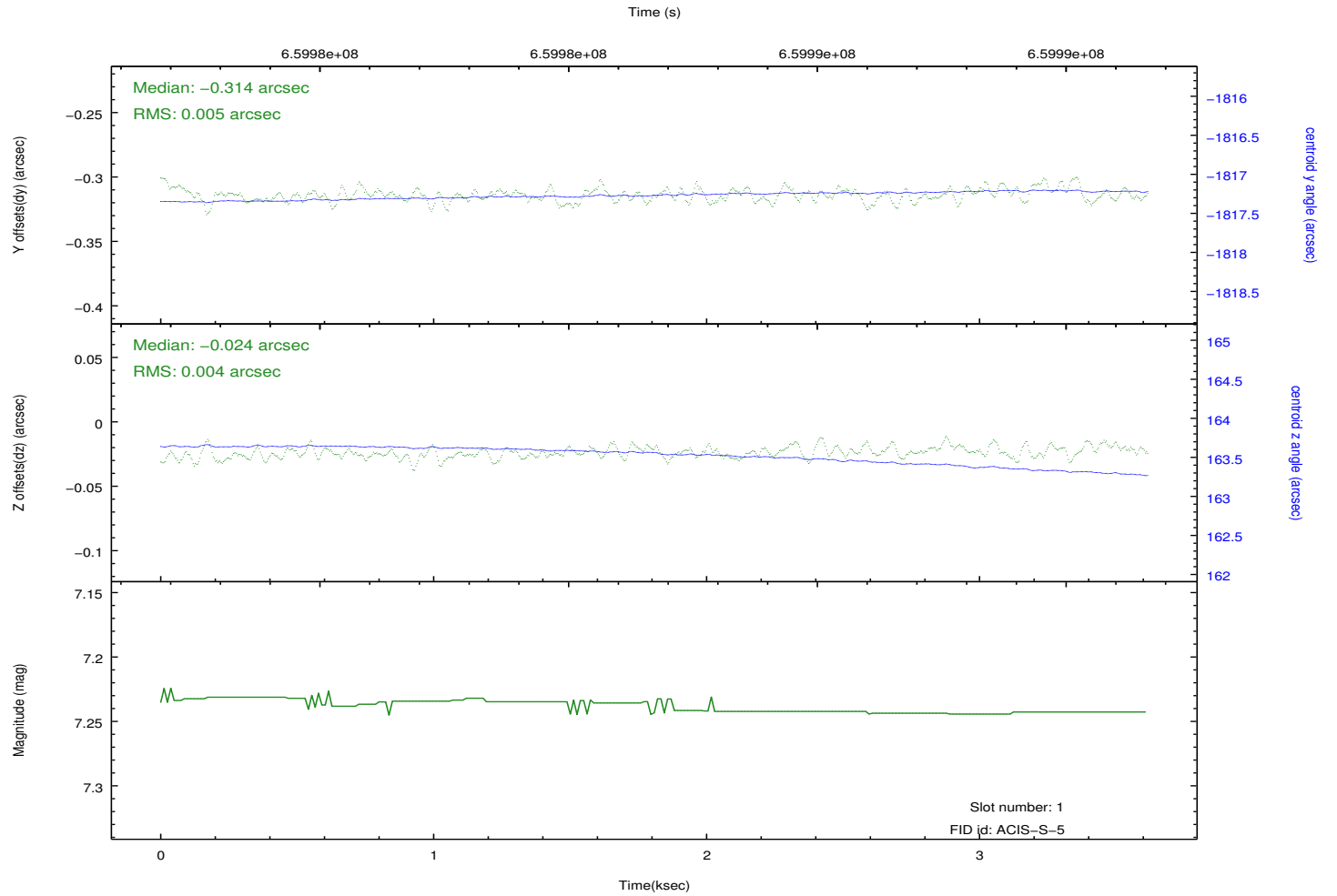
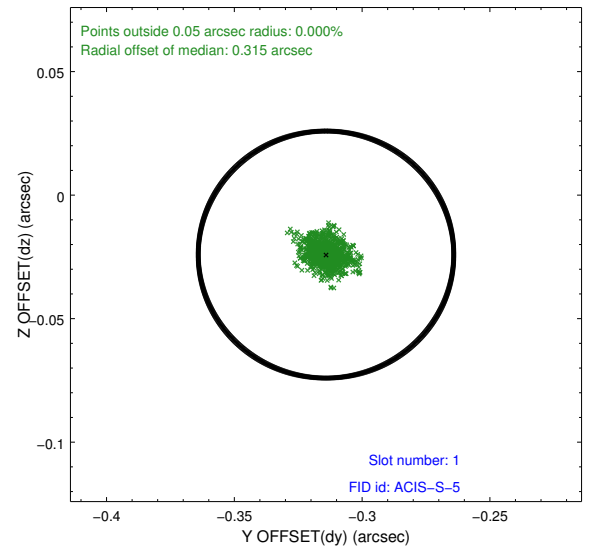
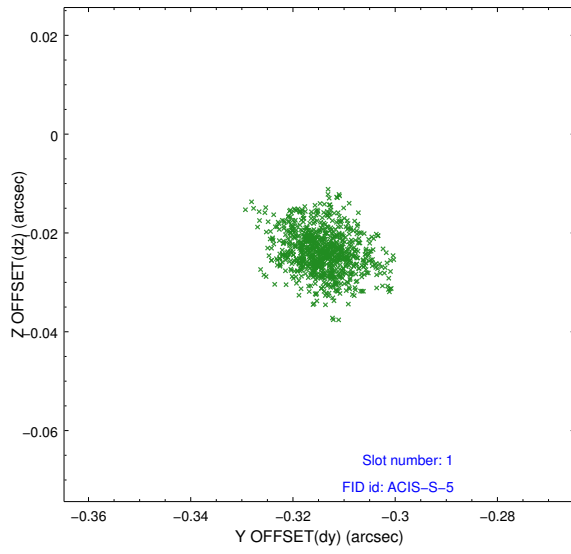


2.5 FID Slots

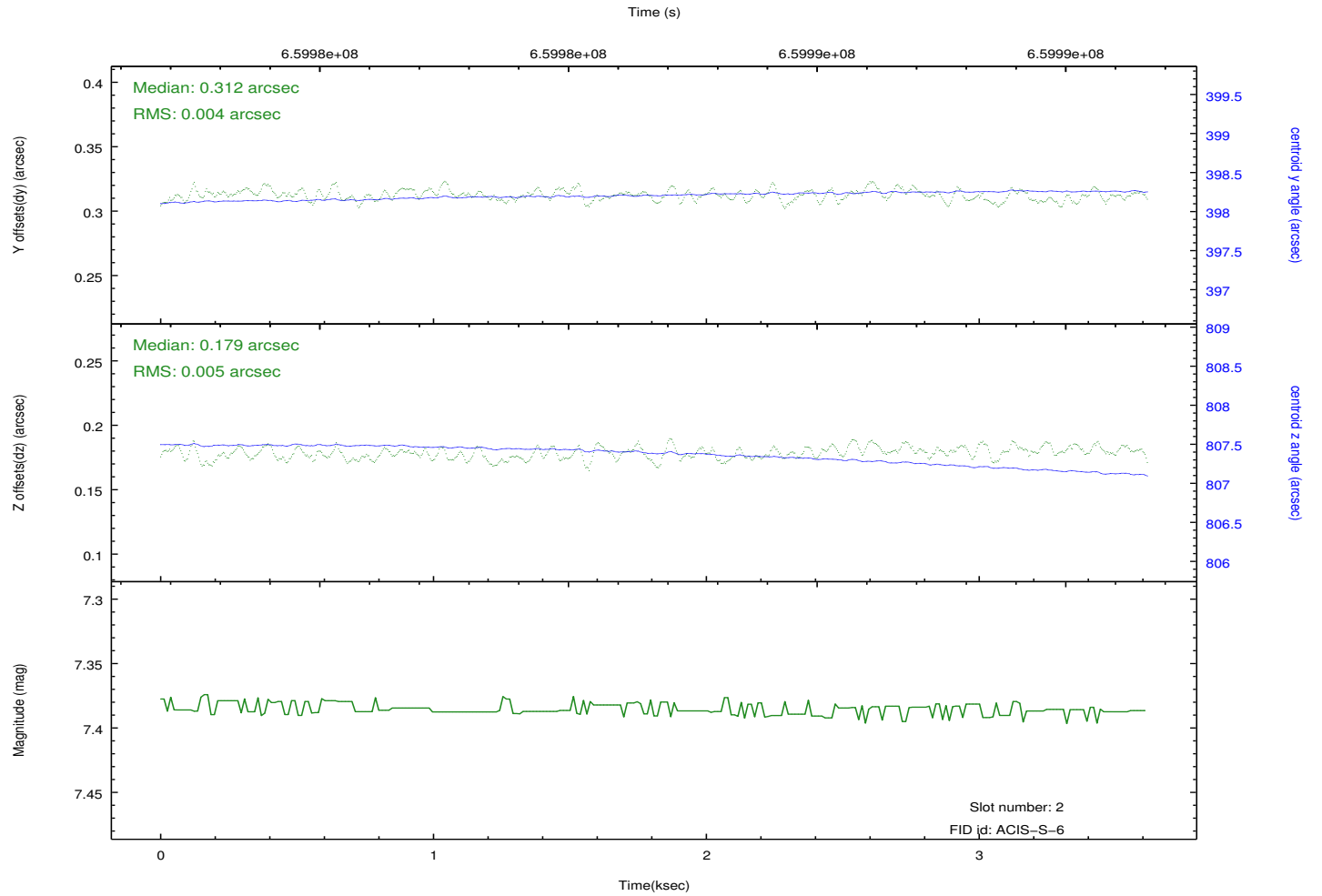
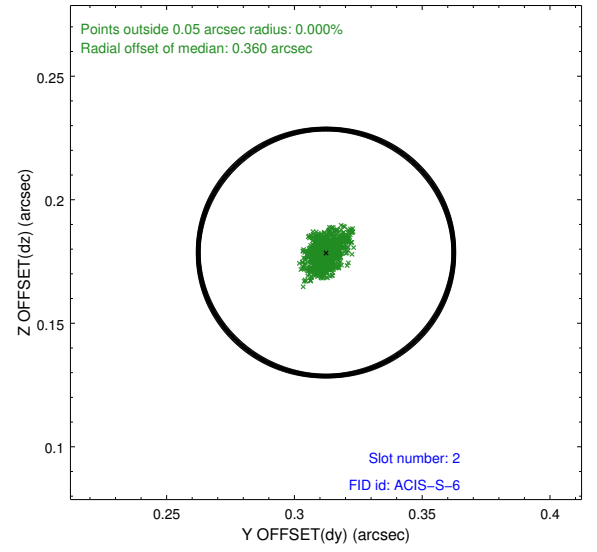
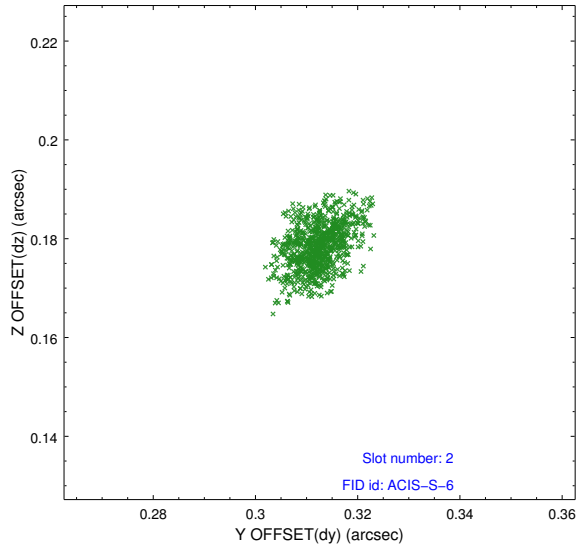
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2018.12.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.5511901575327

A.2 Comments