

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 19278 - L2 Version 1
Chandra X-Ray Center

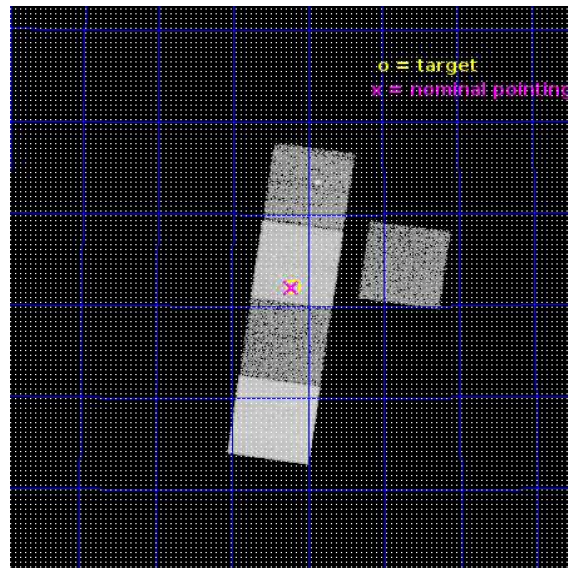
L2 Processing Date : Nov 14 2017

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

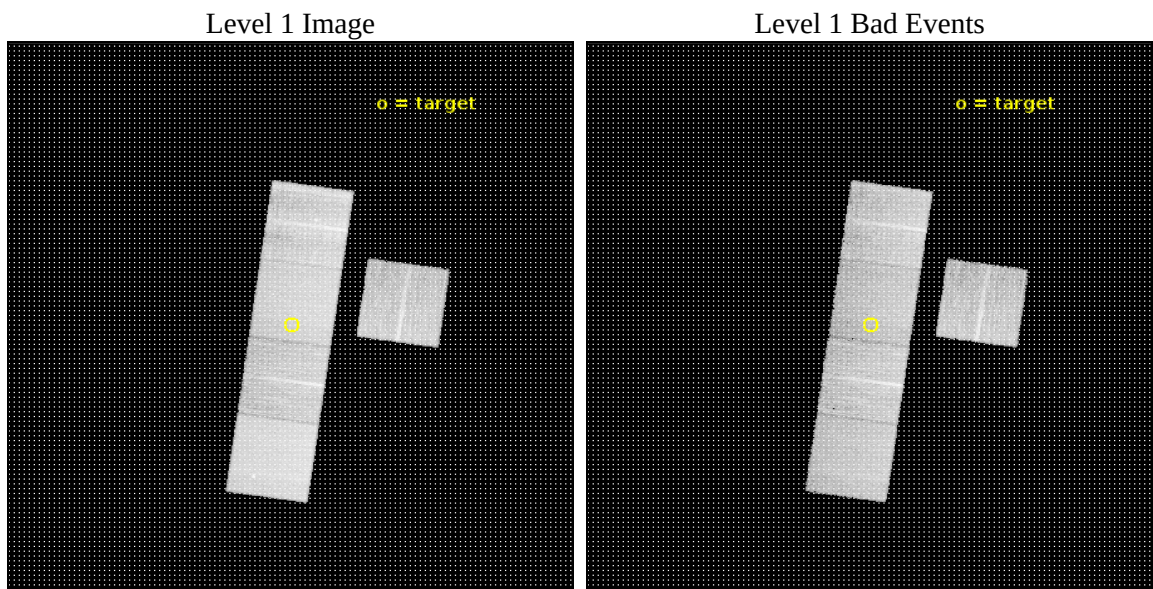
seq_num	502928	Sequence number
obs_id	19278	Observation id
title	Mapping extreme mass loss from evolved massive stars with coordinated Chandra-NuSTAR observations	Proposal title
observer	Raffaella Margutti	Principal investigator
object	SN2017gas	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	304.297167	Observer's specified target RA [deg]
dec_targ	58.202222	Observer's specified target Dec [deg]
ra_nom	304.3048355725	Nominal RA [deg]
dec_nom	58.200213376924	Nominal Dec [deg]
roll_nom	278.15008006922	Nominal Roll [deg]
revision	1	Processing version of data
ontime	15053.600115895	Sum of GTIs [s]
livetime	14856.913748082	Livetime [s]
ontime3	15053.600115895	Sum of GTIs [s]
ontime5	15053.600115895	Sum of GTIs [s]
ontime6	15053.600115895	Sum of GTIs [s]
ontime7	15053.600115895	Sum of GTIs [s]
ontime8	15053.600115895	Sum of GTIs [s]
l2events	167955	Number of level 2 events



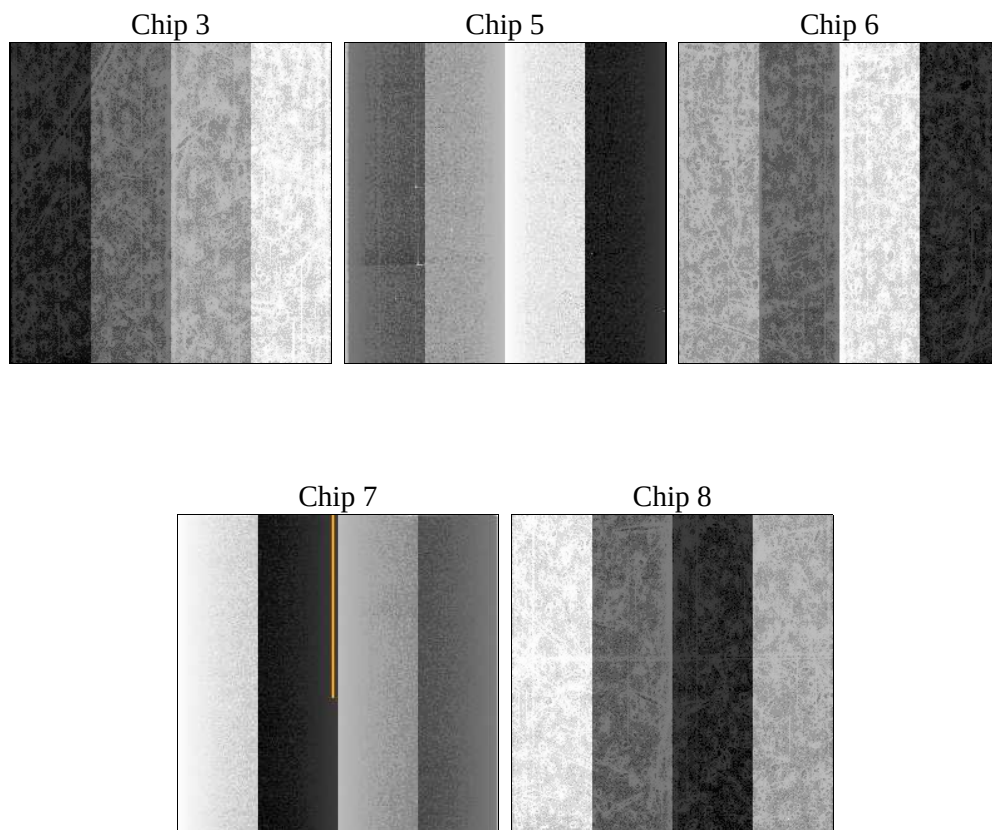
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	15000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	15053.600115895	Sum of GTIs [s]
caldbver	4.7.6	 	ontime3	15053.600115895	Sum of GTIs [s]
date	2017-11-14T19:37:19	Date and time of file creation	ontime5	15053.600115895	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	15053.600115895	Sum of GTIs [s]
			ontime7	15053.600115895	Sum of GTIs [s]
			ontime8	15053.600115895	Sum of GTIs [s]
			l1events	646841	Number of level 1 events

2.1.4 Events

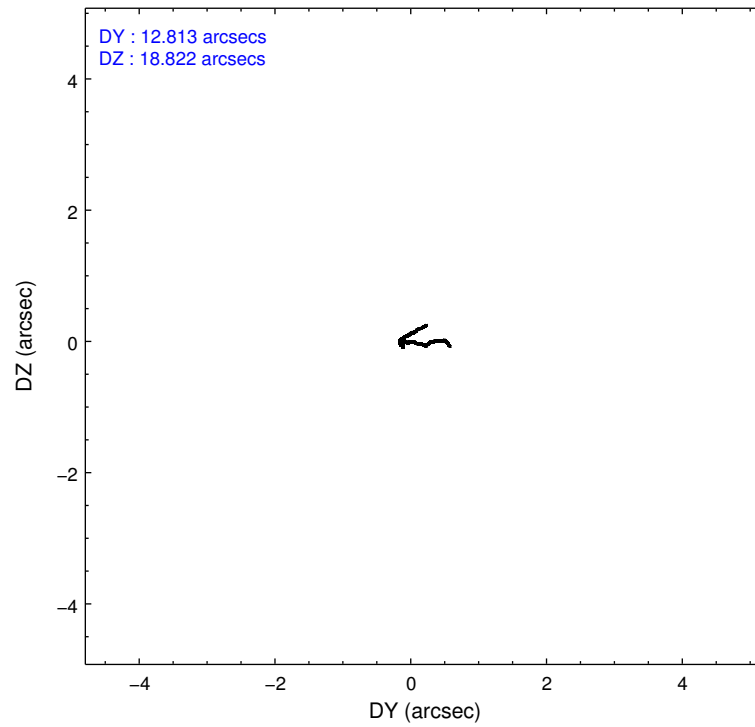
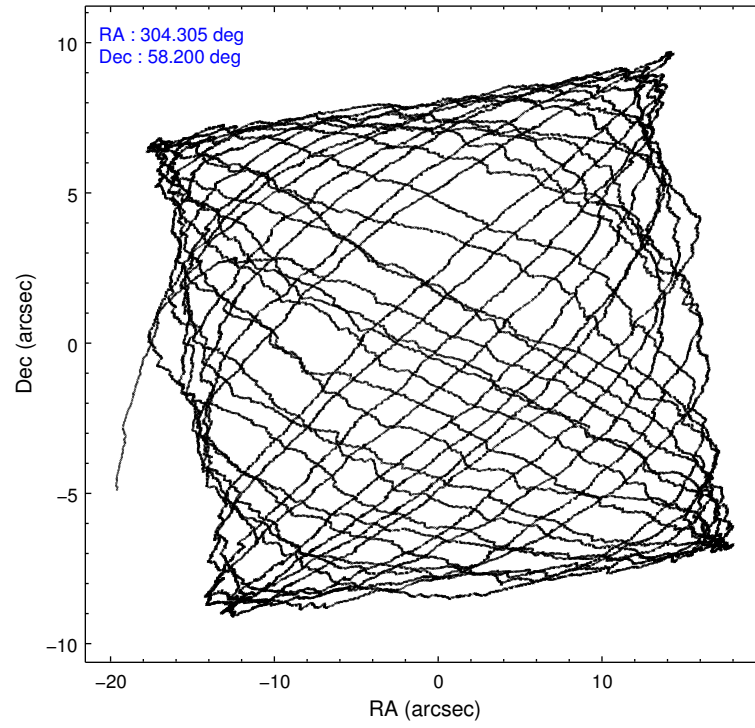
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	101399	165233	107411	135375	137423
rejected events	90344	86302	95620	76546	98486
rejected %	89%	52%	89%	56%	71%

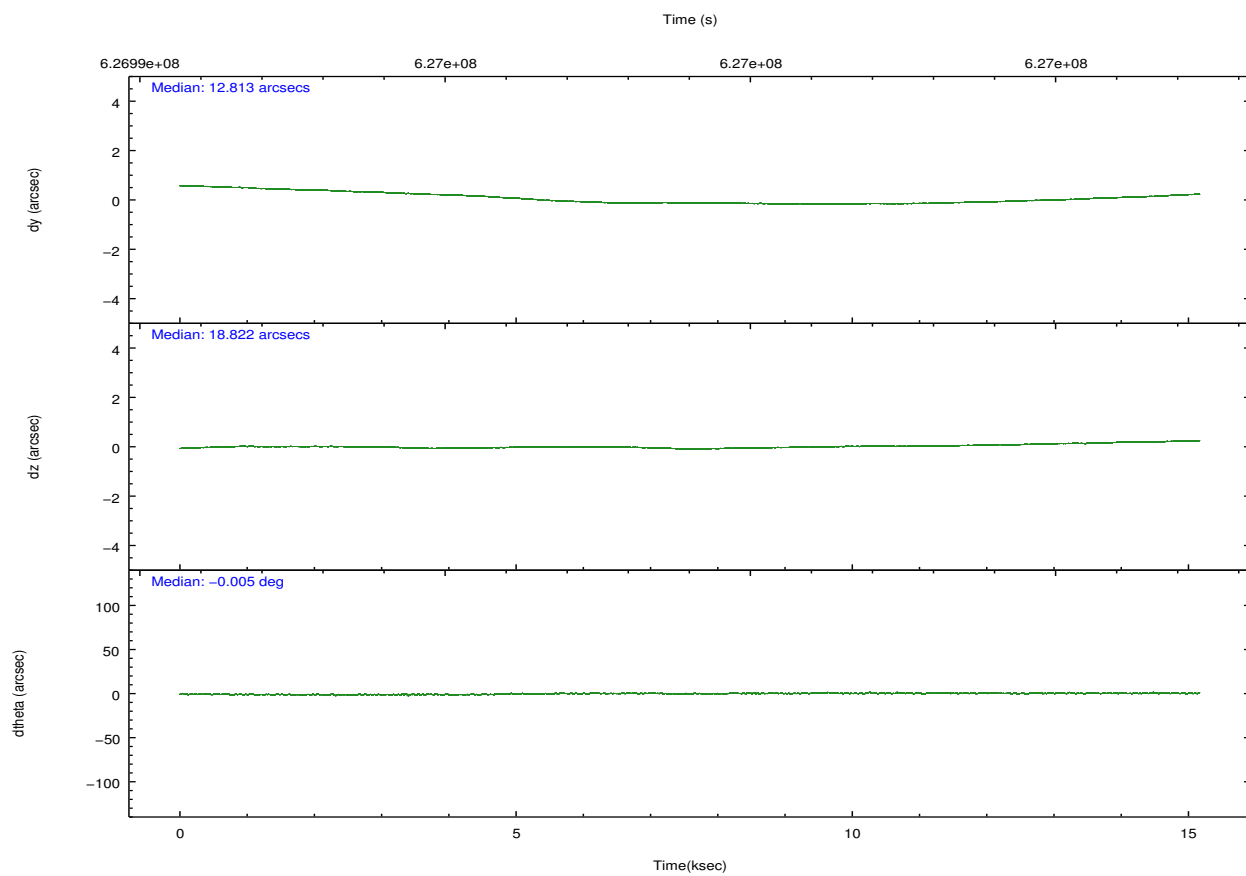
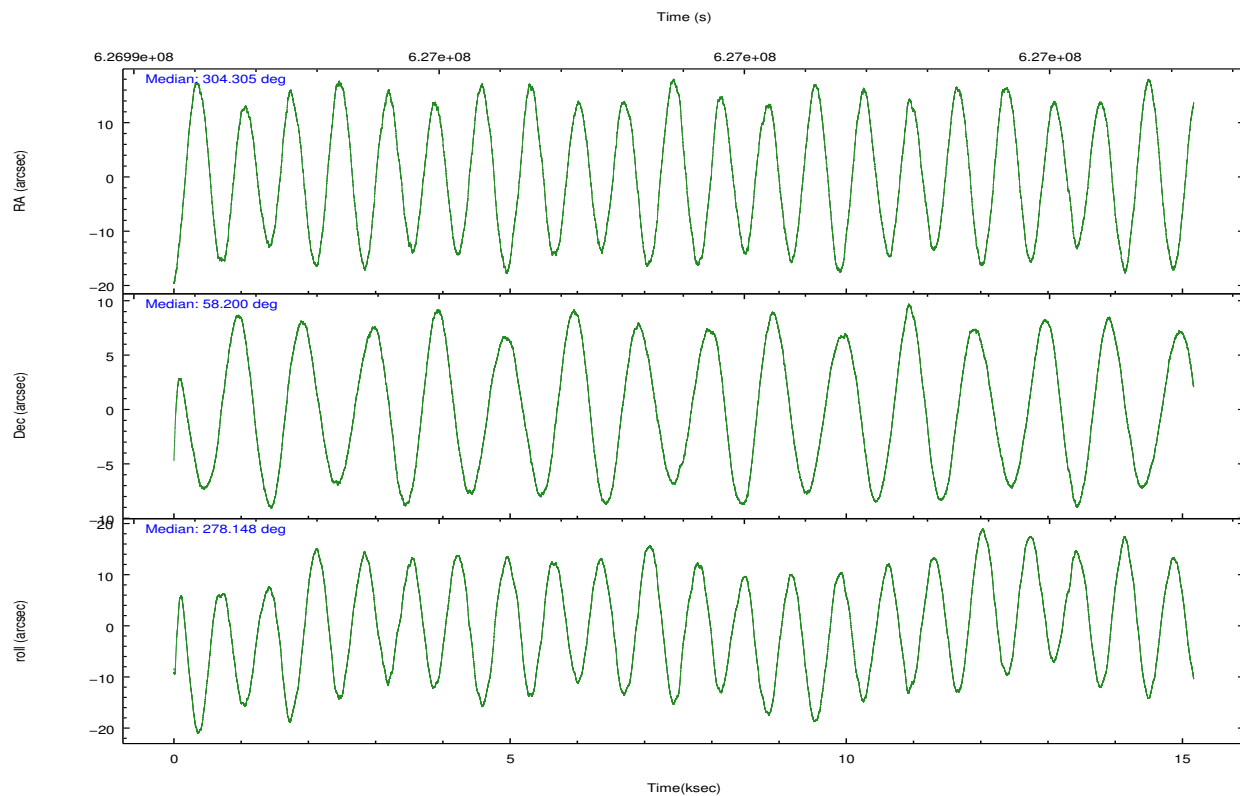
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	3958	4720	3855	5155	11645
	3%	2%	3%	3%	8%
grade 1 events	54	338	44	172	133
	0%	0%	0%	0%	0%
grade 2 events	2436	25075	2757	12517	9214
	2%	15%	2%	9%	6%
grade 3 events	1181	2650	1227	4877	4089
	1%	1%	1%	3%	2%
grade 4 events	1143	2611	1173	4791	3760
	1%	1%	1%	3%	2%
grade 5 events	4929	11976	5021	13659	7445
	4%	7%	4%	10%	5%
grade 6 events	2341	43882	2782	31495	10234
	2%	26%	2%	23%	7%
grade 7 events	85357	73981	90552	62709	90903
	84%	44%	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	304.272117	304.3048355724972	CCD I2 on	N	N
[deg] Pointing Dec	58.221576	58.20021337692418	CCD I3 on	O1	Y
[deg] Pointing Roll	278.021291	278.1500800692219	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)	626991578.184000	626990649.74512	CCD S5 on	N	N
Observation start date	2017-11-13T20:18:29	2017-11-13T20:04:09	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	627006578.184000	627007706.25862	On-chip summing requested	N	N
Observation end date	2017-11-14T00:28:29	2017-11-14T00:48:26	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



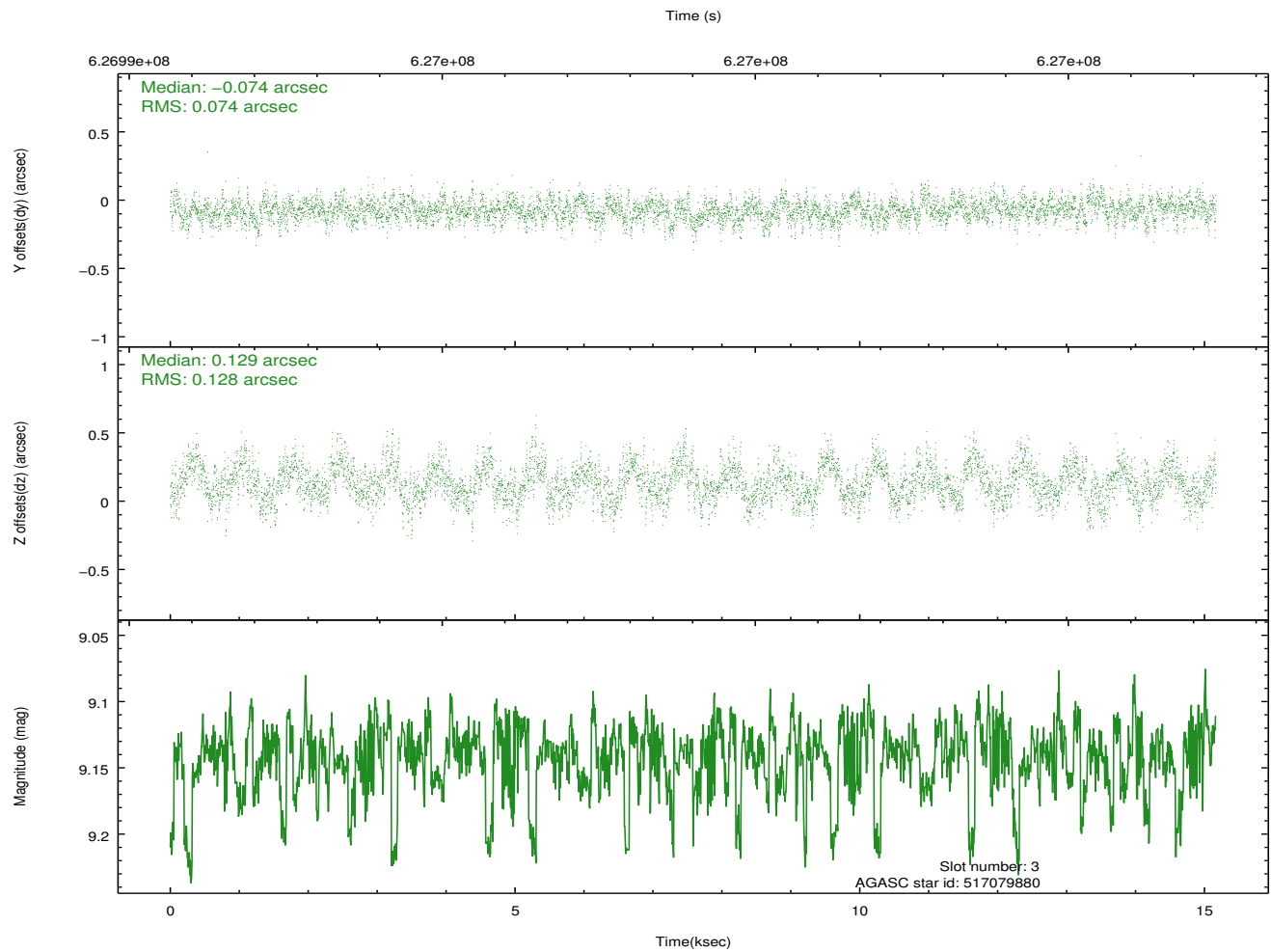
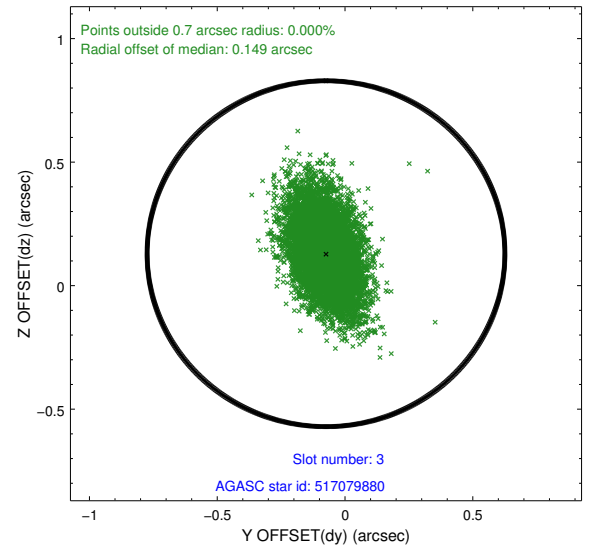
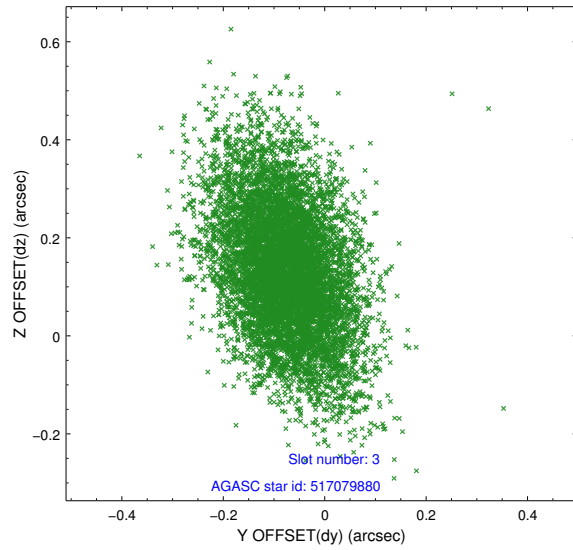


Slot Statistics

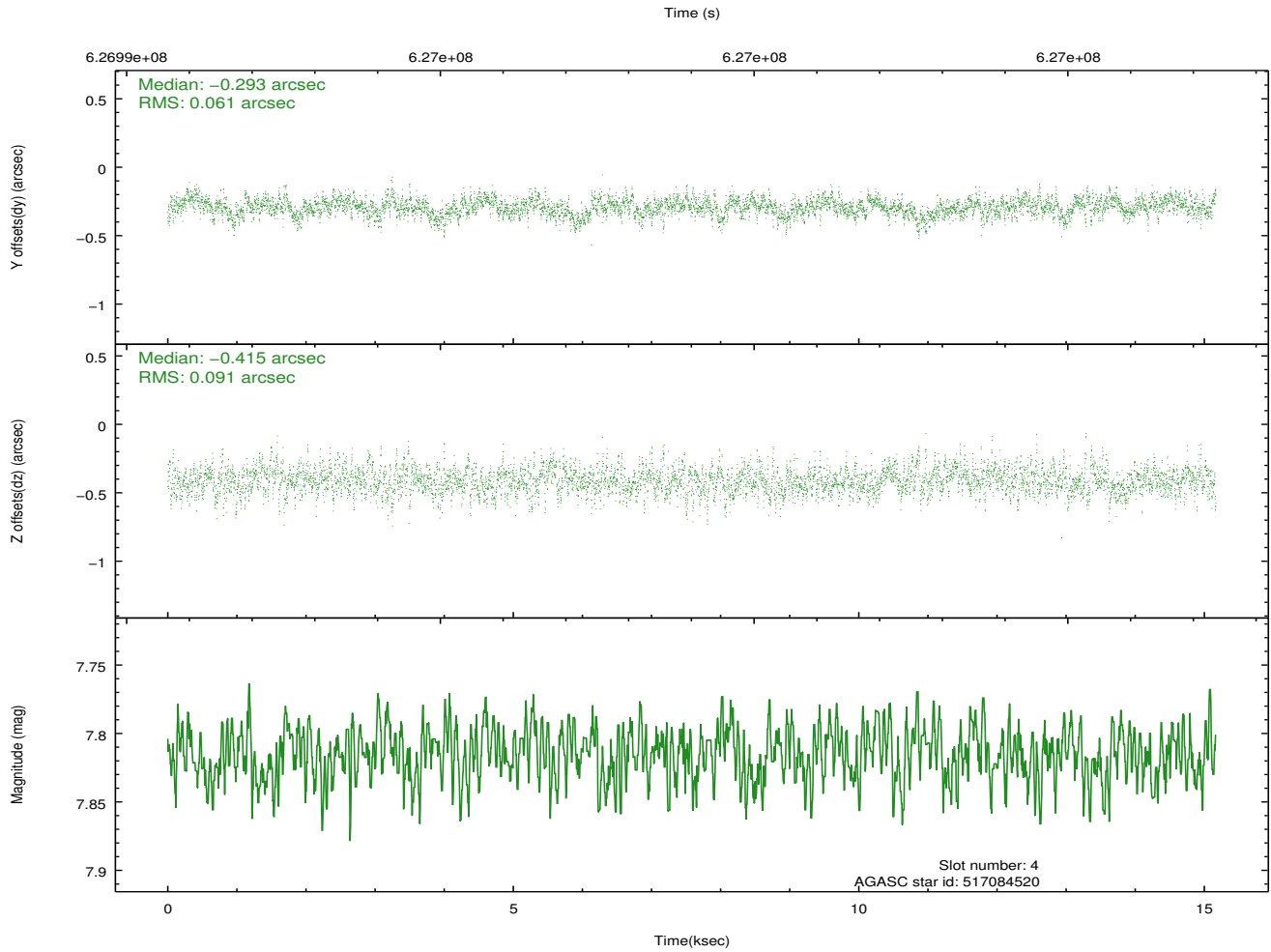
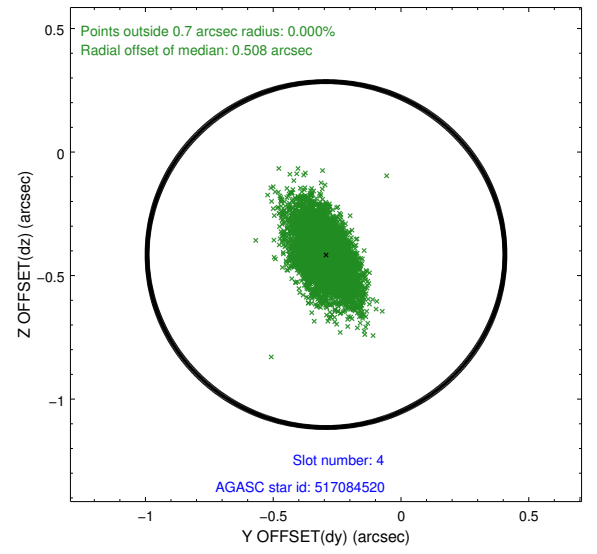
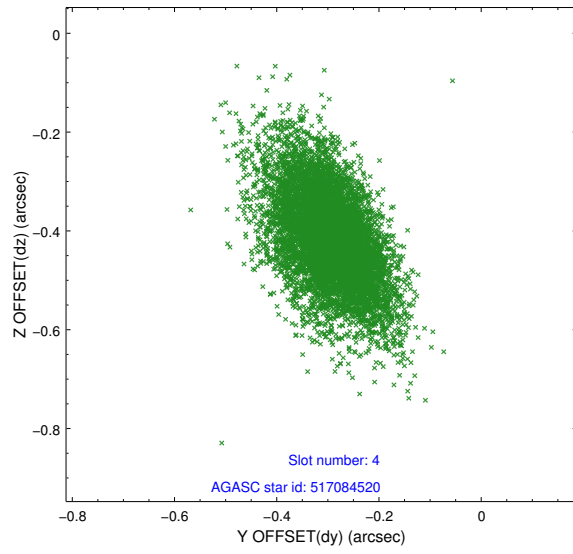
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.96	3700	-0.140	-0.067	0.008	0.014	0.000000	0.000000	-765.91	-1740.40
1	FID		ACIS-S-4	7.09	3700	0.397	0.086	0.013	0.027	0.000000	0.000000	2147.74	167.96
2	FID		ACIS-S-5	7.09	3700	-0.288	-0.010	0.011	0.022	0.000000	0.000000	-1818.55	161.82
3	GUIDE	used	517079880	9.14	7391	-0.074	0.129	0.153	0.266	303.532297	58.105407	210.65	-1450.19
4	GUIDE	used	517084520	7.82	7399	-0.293	-0.415	0.110	0.201	304.586702	57.796542	1598.16	384.37
5	GUIDE	used	517608688	7.97	7399	-0.221	-0.138	0.120	0.215	304.557945	58.809237	-2021.15	823.28
6	GUIDE	used	517614208	7.88	7393	0.107	0.240	0.116	0.202	303.785064	58.334621	-534.30	-853.50
7	GUIDE	used	517613680	9.35	7387	0.478	0.178	0.188	0.302	303.504206	58.730609	-2021.94	-1163.73

2.4 Star Slots

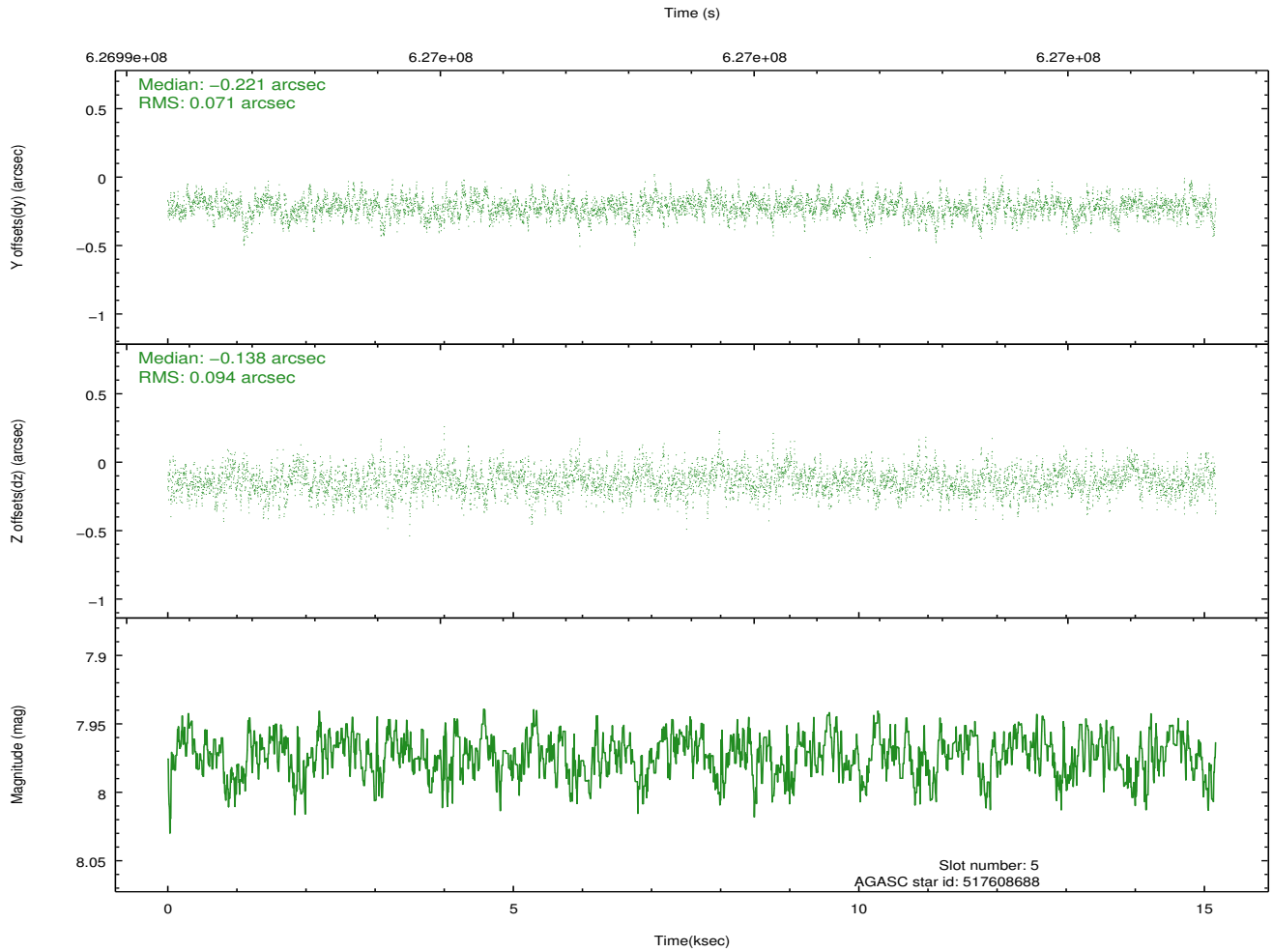
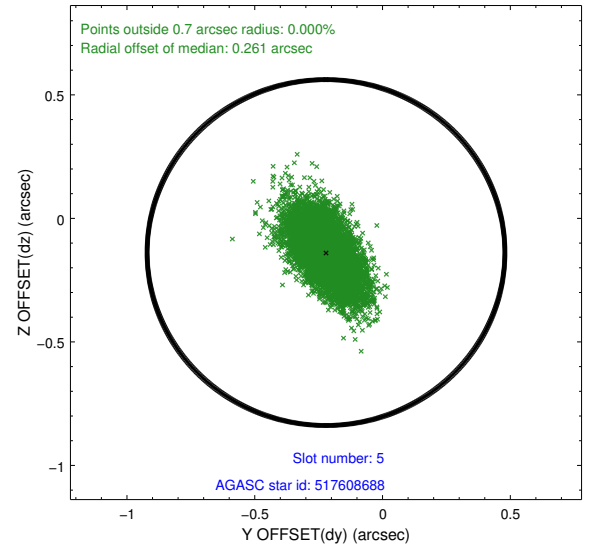
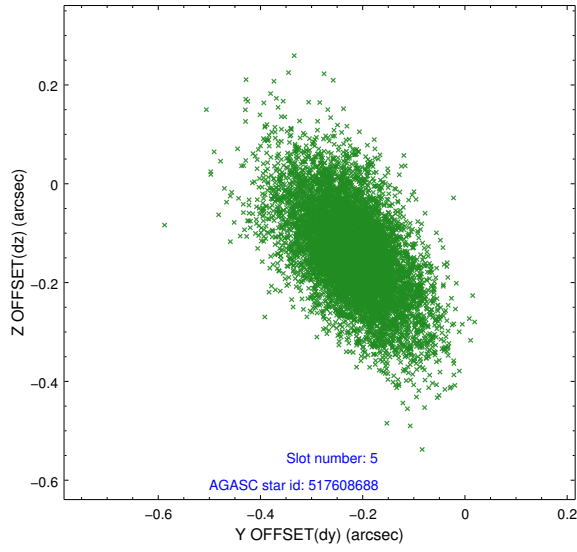
2.4.1 Slot 3



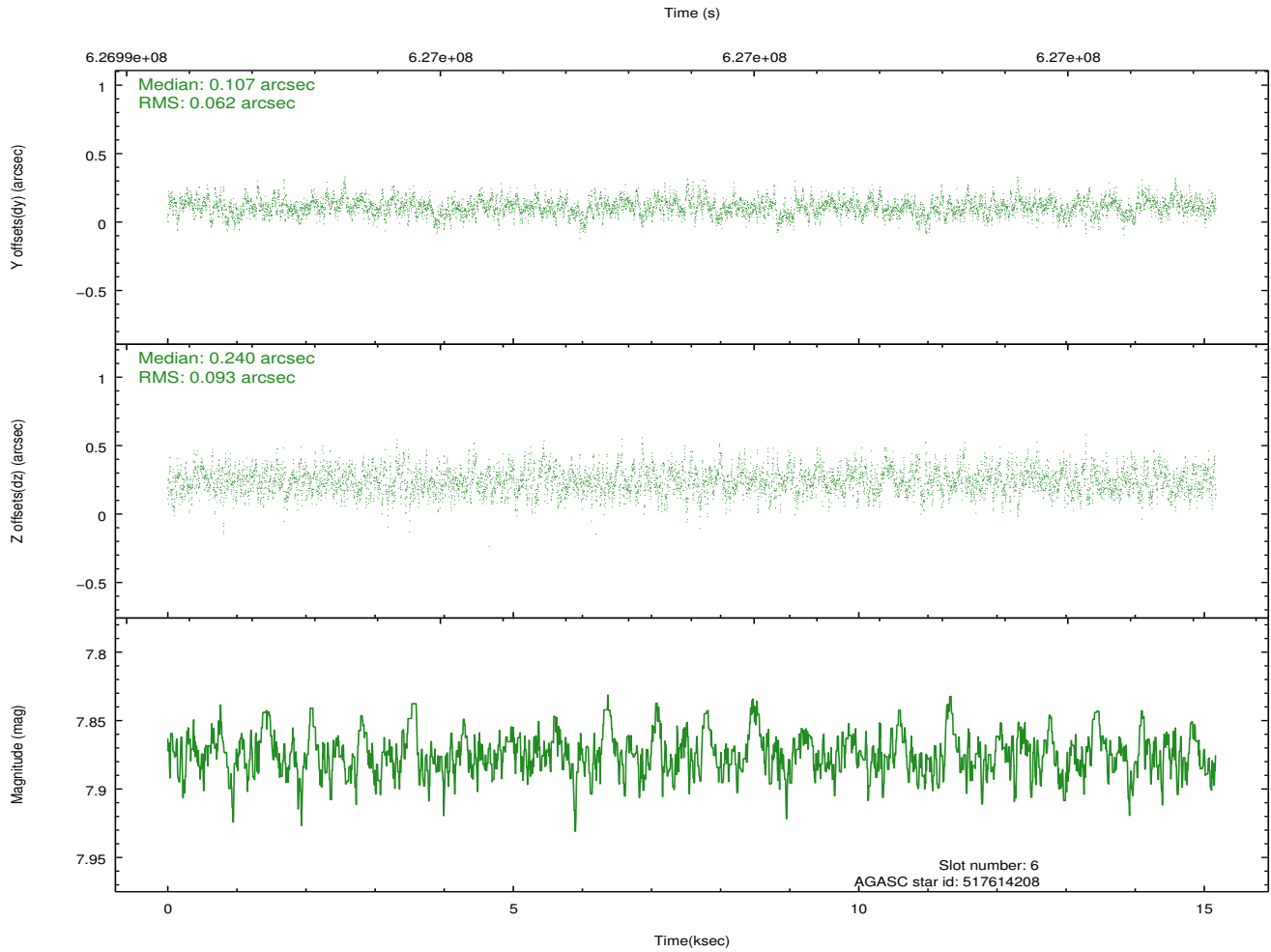
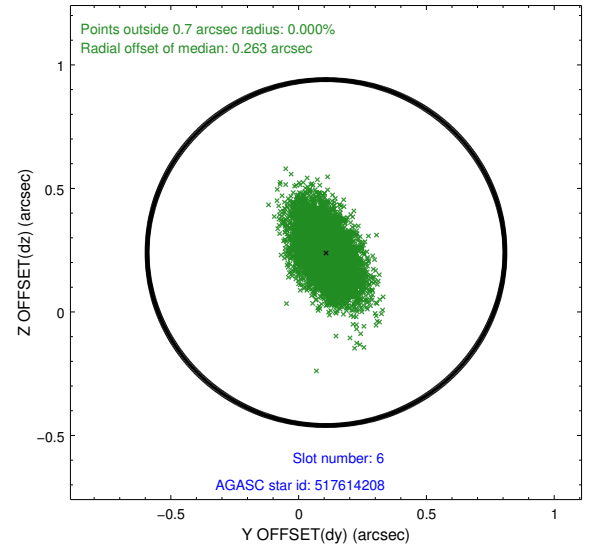
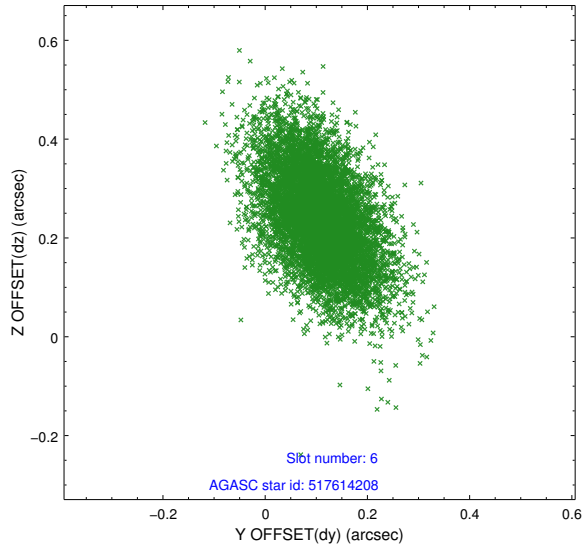
2.4.2 Slot 4



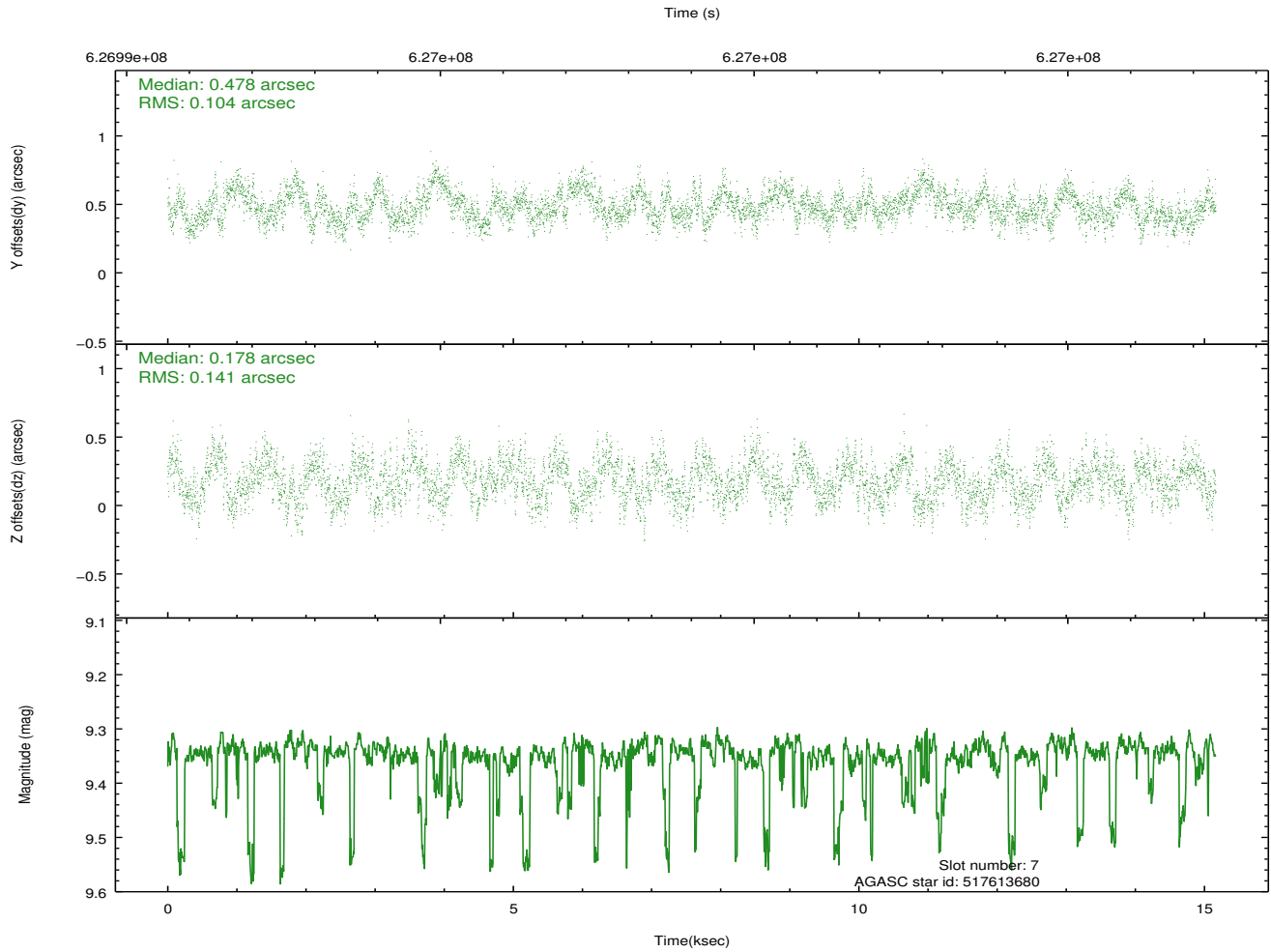
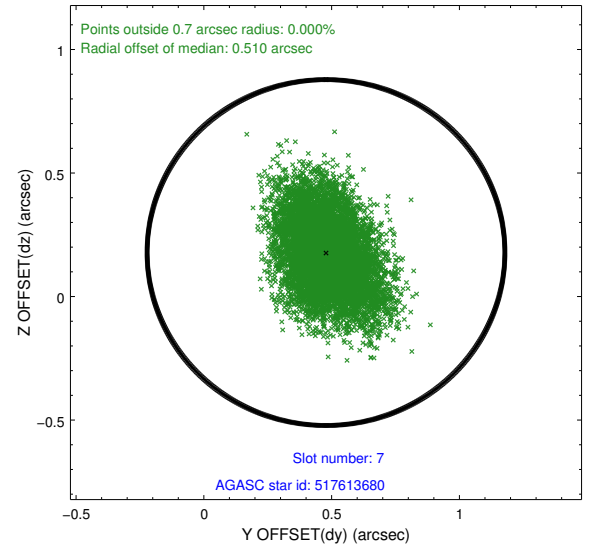
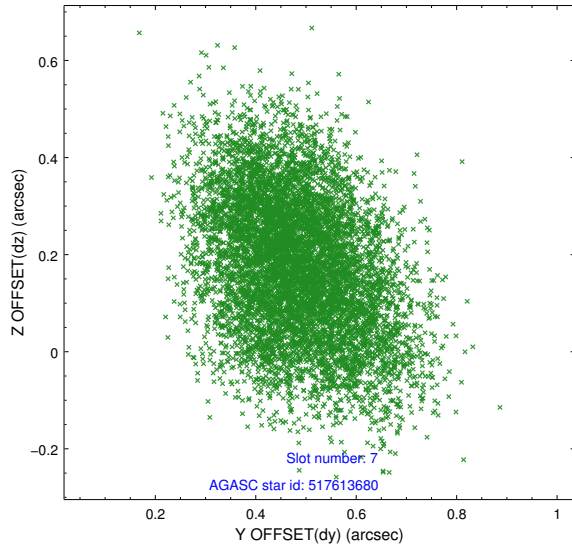
2.4.3 Slot 5



2.4.4 Slot 6

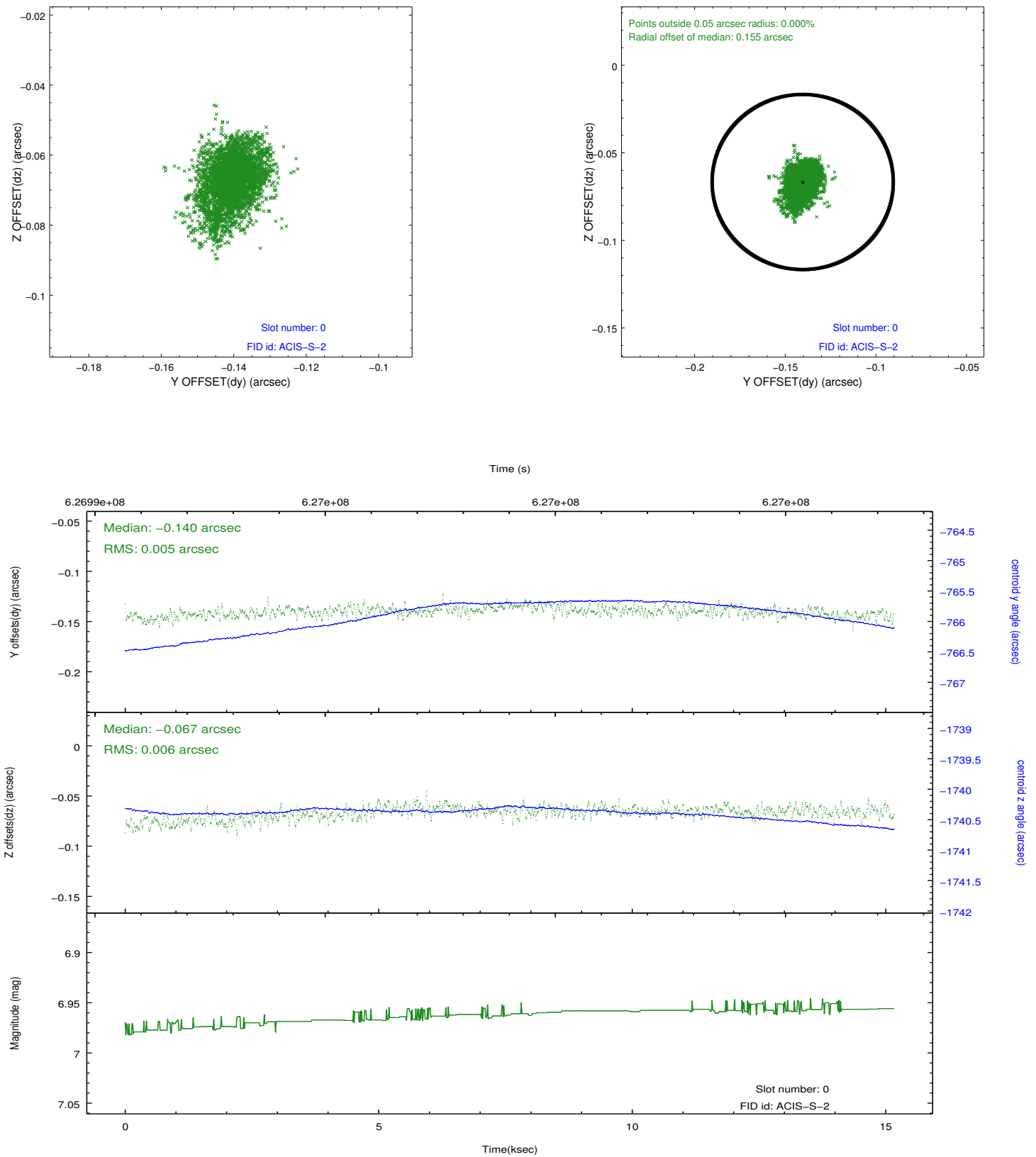


2.4.5 Slot 7

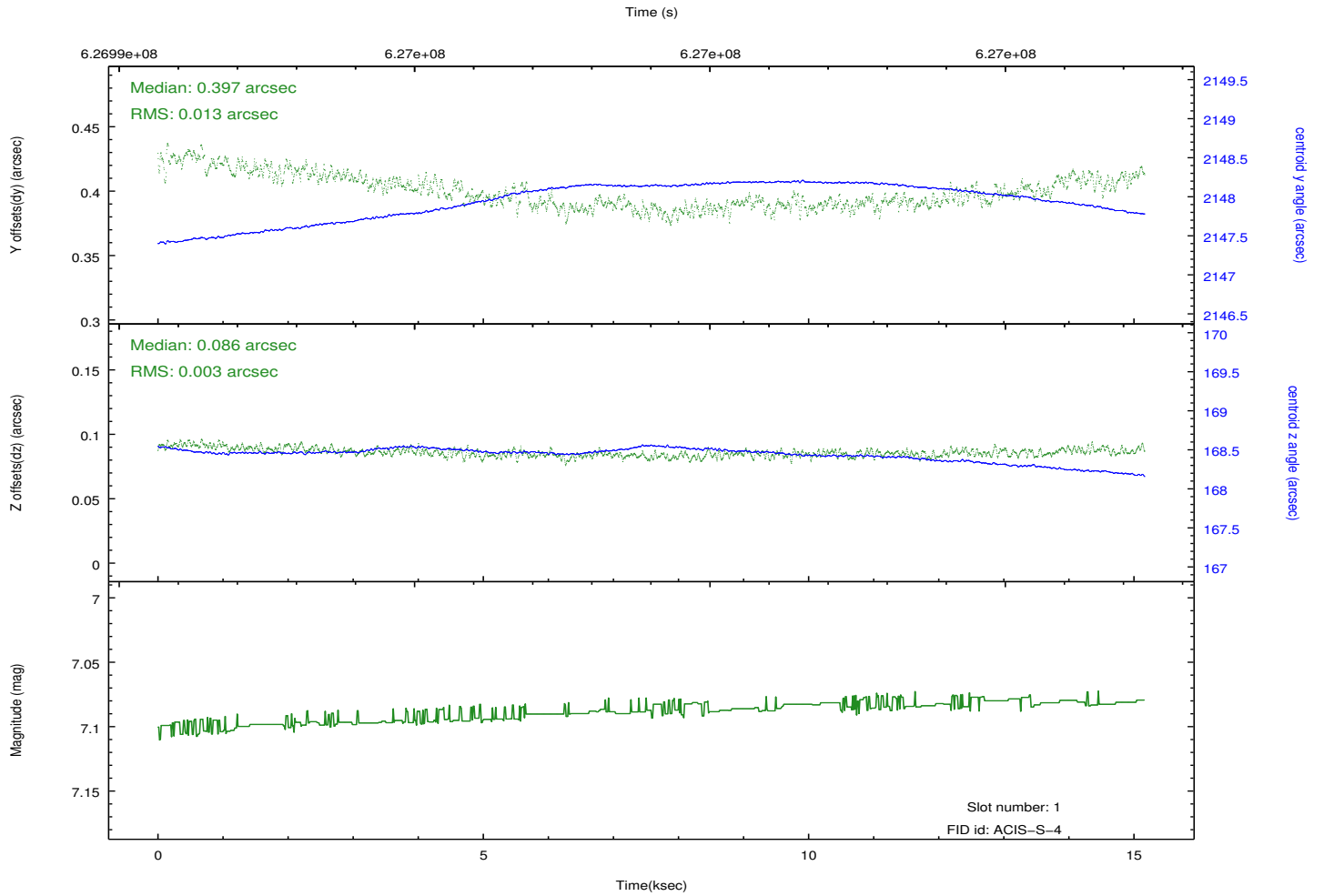
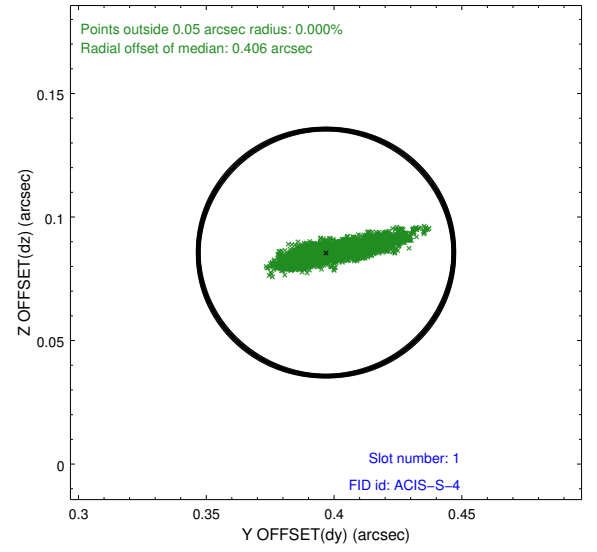
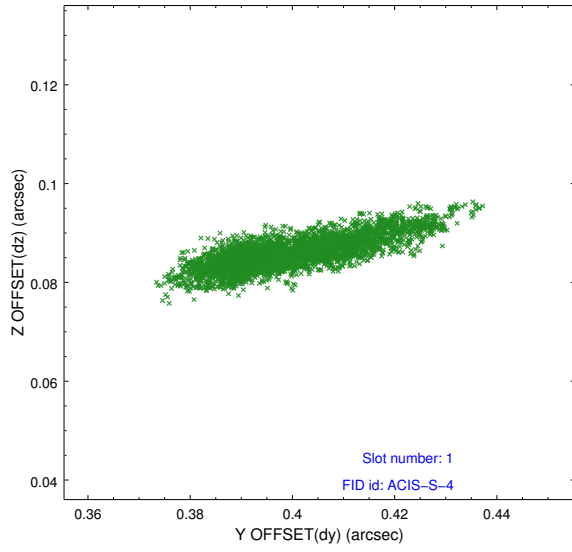


2.5 FID Slots

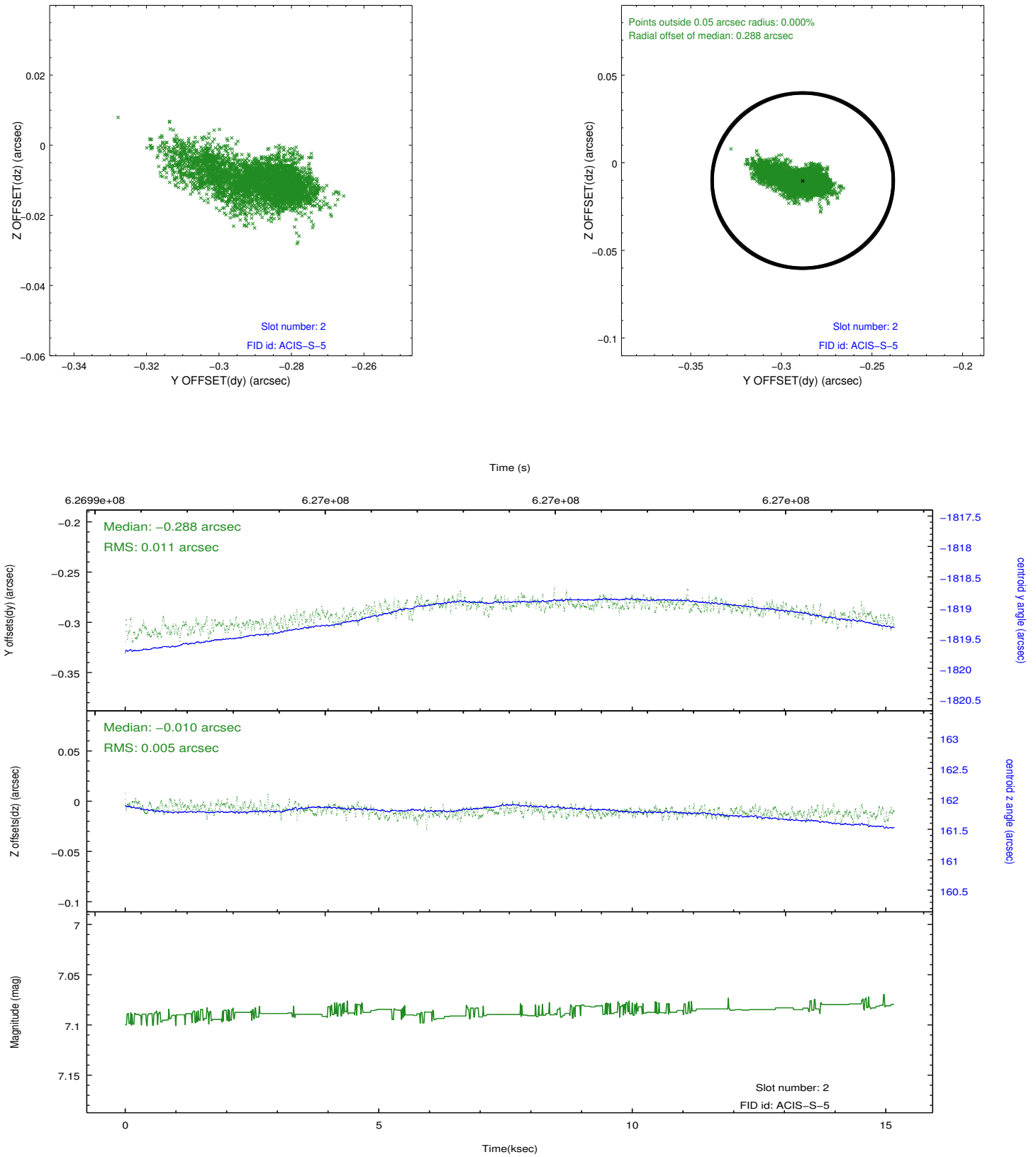
2.5.1 Slot 0



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)	2017.11.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.053600115895

A.2 Comments

Joint proposal with NuSTAR.

Observation coordinated with NuSTAR.