

# V&V Reference Report

## L2 ASCDS Version : 10.4.3

Observation 18164 - L2 Version 1  
Chandra X-Ray Center

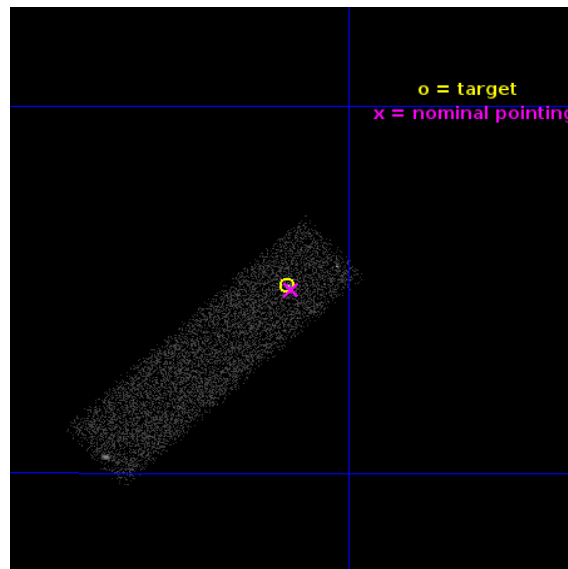
L2 Processing Date : Dec 25 2015

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# 1 Front

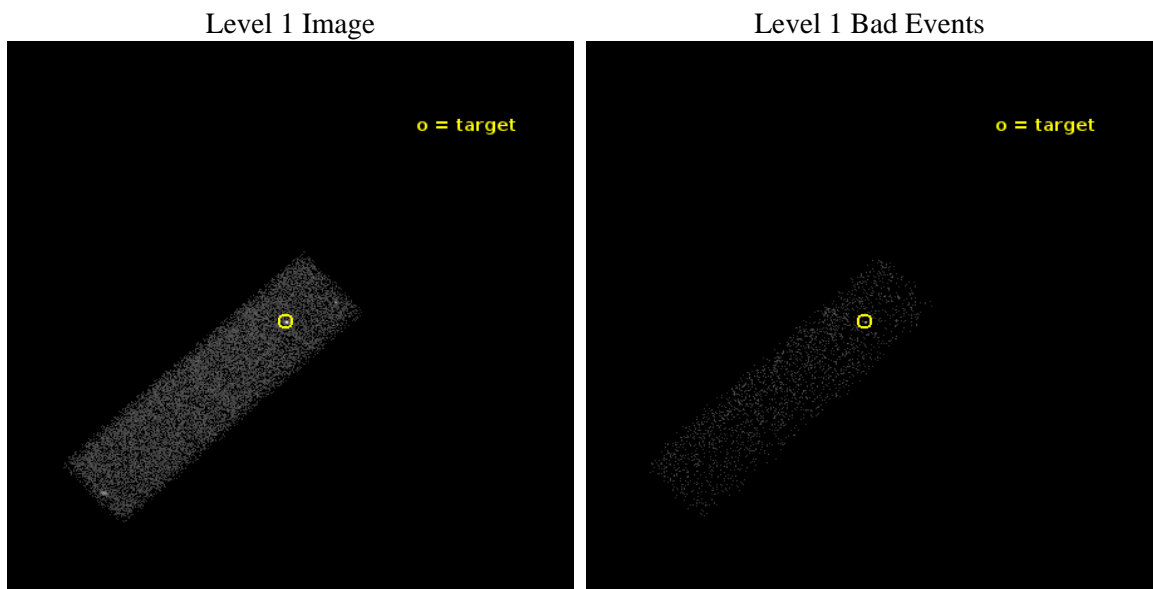
seq_num	703229	Sequence number
obs_id	18164	Observation id
title	Chandra Legacy Survey of Merger Driven AGN Activation in Nearby X-ray Selected AGN	Proposal title
observer	Dr Michael Koss	Principal investigator
object	2MASSi J0733092+455506	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	113.288333	Observer's specified target RA [deg]
dec_targ	45.918389	Observer's specified target Dec [deg]
ra_nom	113.28607096894	Nominal RA [deg]
dec_nom	45.916612193749	Nominal Dec [deg]
roll_nom	137.48818805876	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10060.61082685	Sum of GTIs [s]
livetime	9569.6859382193	Livetime [s]
ontime7	10060.61082685	Sum of GTIs [s]
l2events	11784	Number of level 2 events



## 2 OBI

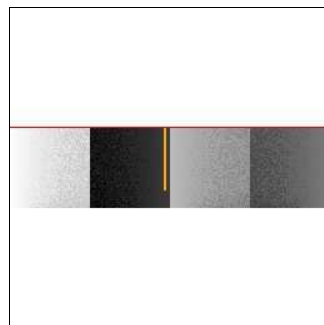
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.3	Processing system revision	ontime	10060.61082685	Sum of GTIs [s]
caldsver	4.7.0	&#160	ontime7	10060.61082685	Sum of GTIs [s]
date	2015-12-26T01:21:06	Date and time of file creation	l1events	22687	Number of level 1 events
revision	1	Processing version of data			

### 2.1.4 Events

	<b>ccd 7</b>
level 1 events	22687
rejected events	10583
rejected %	46%

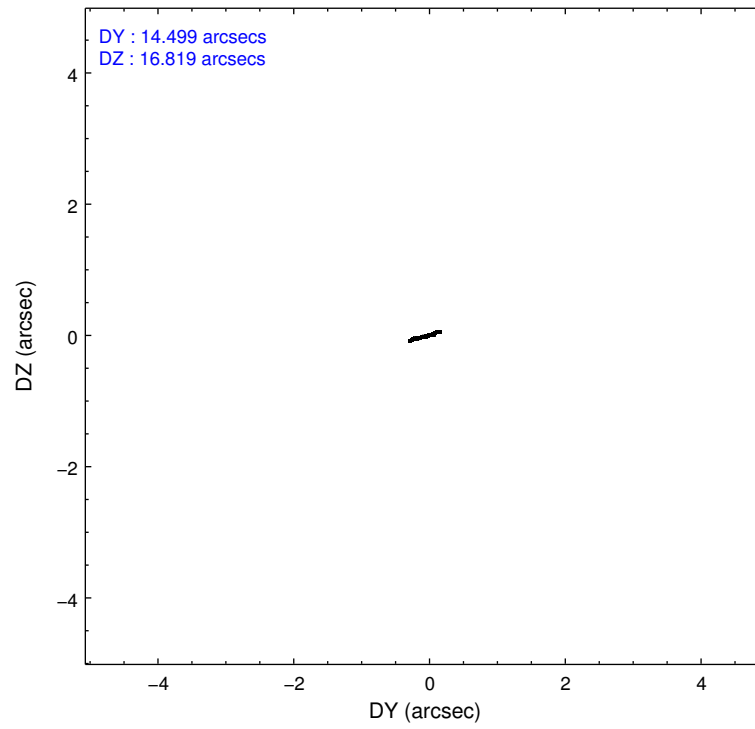
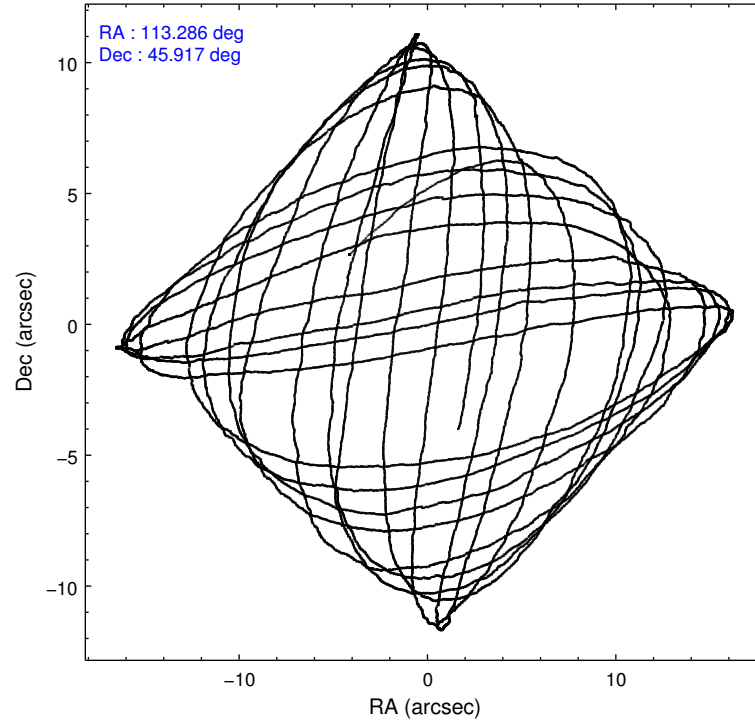
	<b>ccd 7</b>
grade 0 events	1540
	6%
grade 1 events	31
	0%
grade 2 events	2652
	11%
grade 3 events	1334
	5%
grade 4 events	1224
	5%
grade 5 events	2012
	8%
grade 6 events	5358
	23%
grade 7 events	8536
	37%

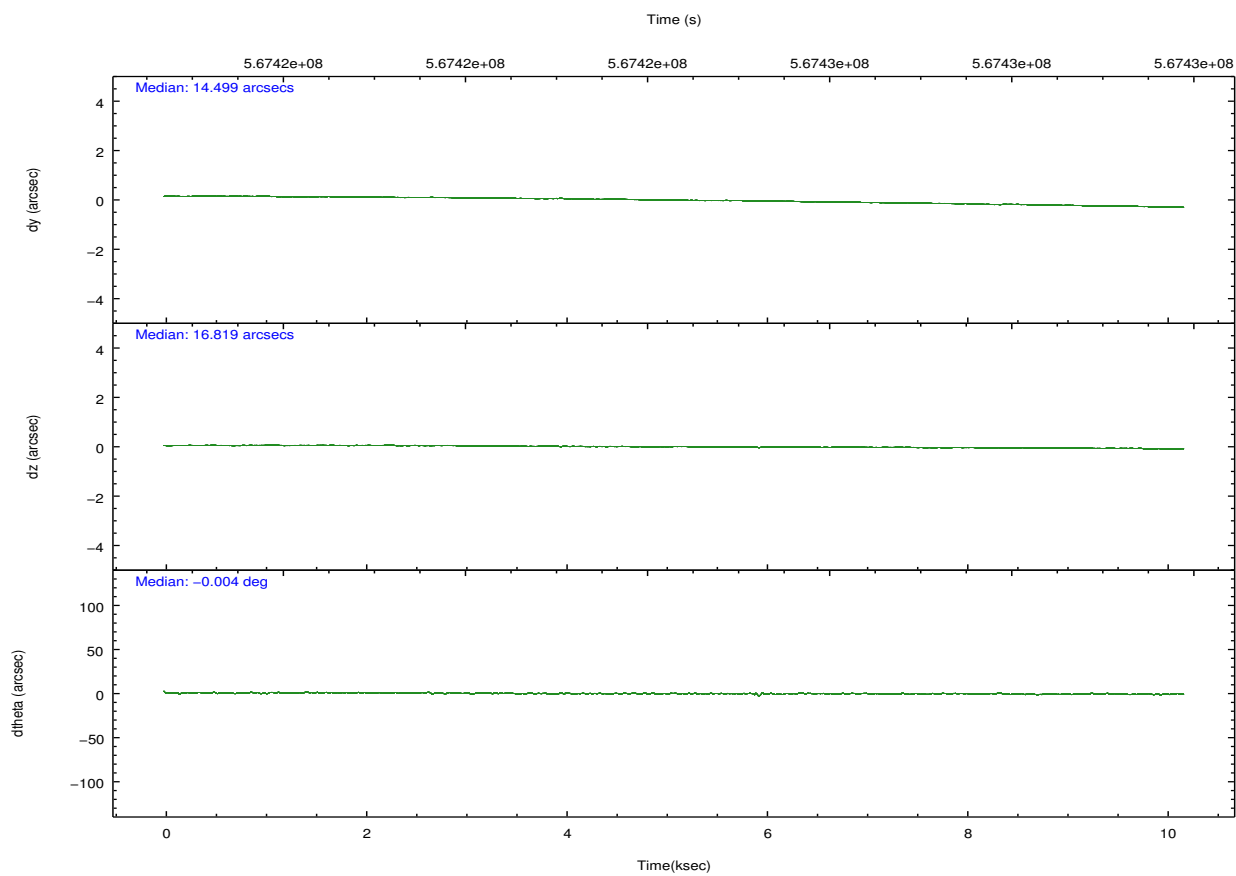
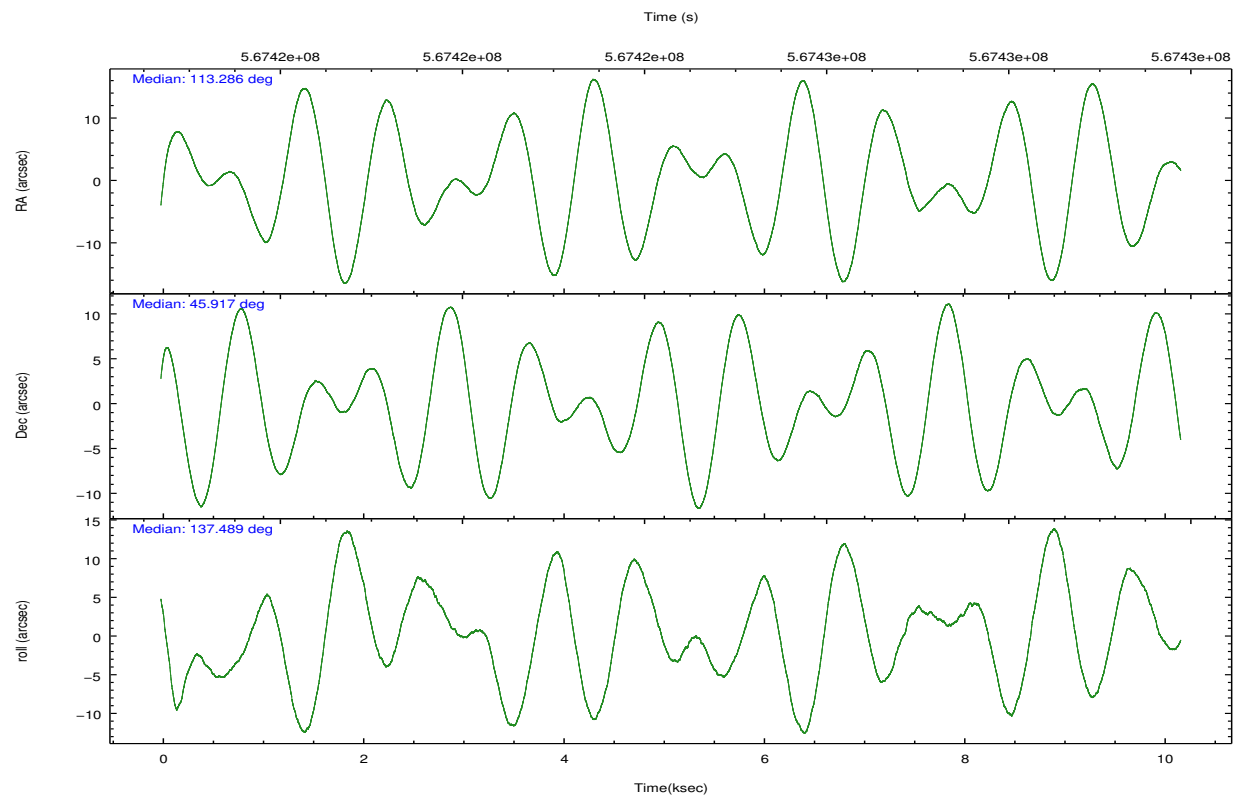


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	113.324676	113.2860709689396	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	45.910998	45.91661219374936	Subarray start row	385	385
[deg] Pointing Roll	137.303827	137.4881880587564	Subarray row count	256	256
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.8
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	567419356.184000	567418120.4322			
Observation start date	2015-12-25T08:28:08	2015-12-25T08:08:40			
[s] Observation end time (MET)	567429356.184000	567429992.49537			
Observation end date	2015-12-25T11:14:48	2015-12-25T11:26:32			
Read mode	TIMED	TIMED			

## 2.3 Aspect



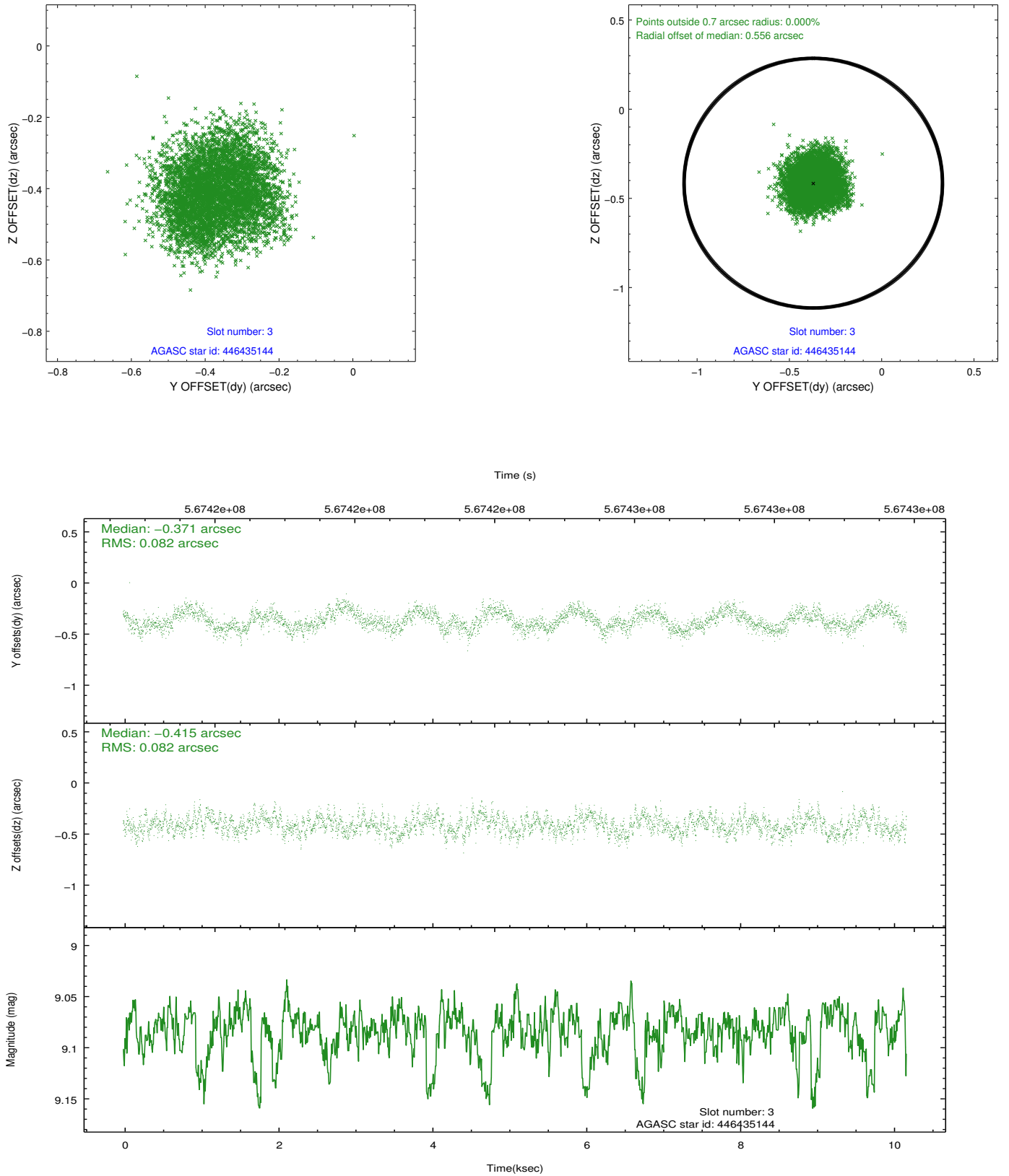


### Slot Statistics

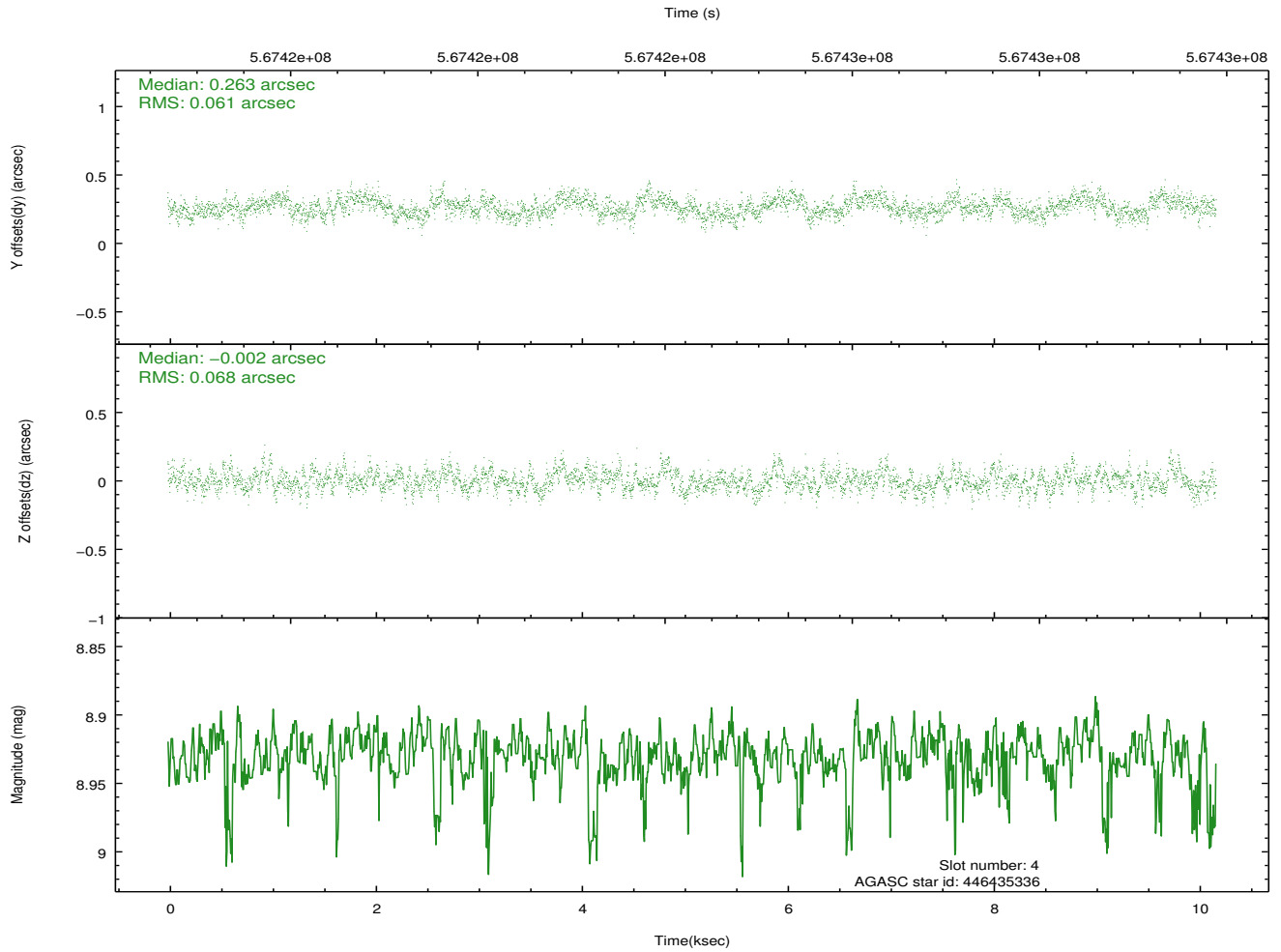
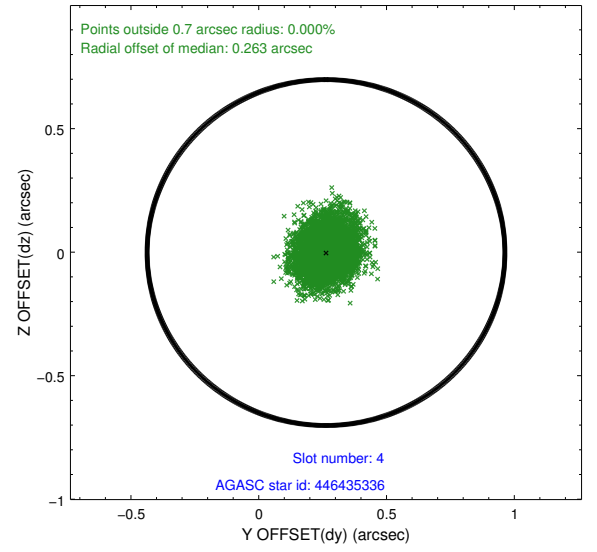
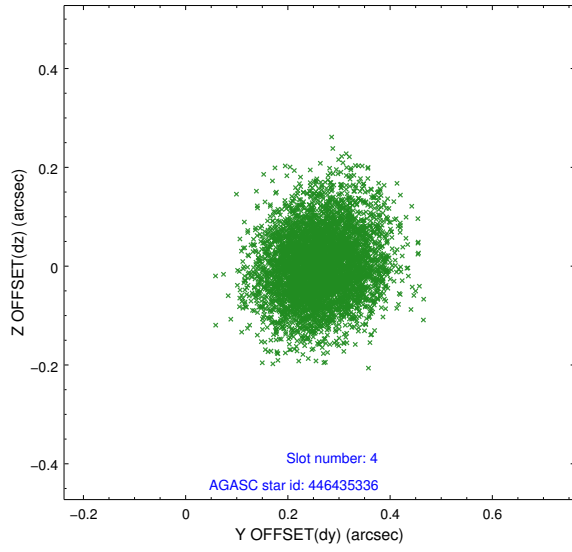
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.15	2483	-0.166	-0.113	0.008	0.014	0.000000	0.000000	-767.59	-1738.31
1	FID		ACIS-S-4	7.25	2481	0.453	0.110	0.006	0.010	0.000000	0.000000	2146.06	169.86
2	FID		ACIS-S-5	7.27	2481	-0.319	0.011	0.008	0.013	0.000000	0.000000	-1819.93	164.02
3	GUIDE	used	446435144	9.08	4958	-0.371	-0.415	0.127	0.193	112.620186	45.670222	719.57	1833.78
4	GUIDE	used	446435336	8.93	4966	0.263	-0.002	0.098	0.158	114.246941	45.859826	-1815.17	-1440.59
5	GUIDE	used	446442992	7.76	4965	-0.056	-0.036	0.202	0.294	113.166355	46.534845	1811.42	-1384.07
6	GUIDE	used	446455400	8.49	4965	0.241	0.122	0.090	0.139	114.198899	46.014973	-1343.57	-1765.82
7	GUIDE	used	446433000	8.73	4965	-0.104	0.316	0.100	0.160	114.495852	45.836398	-2326.56	-1810.08

## 2.4 Star Slots

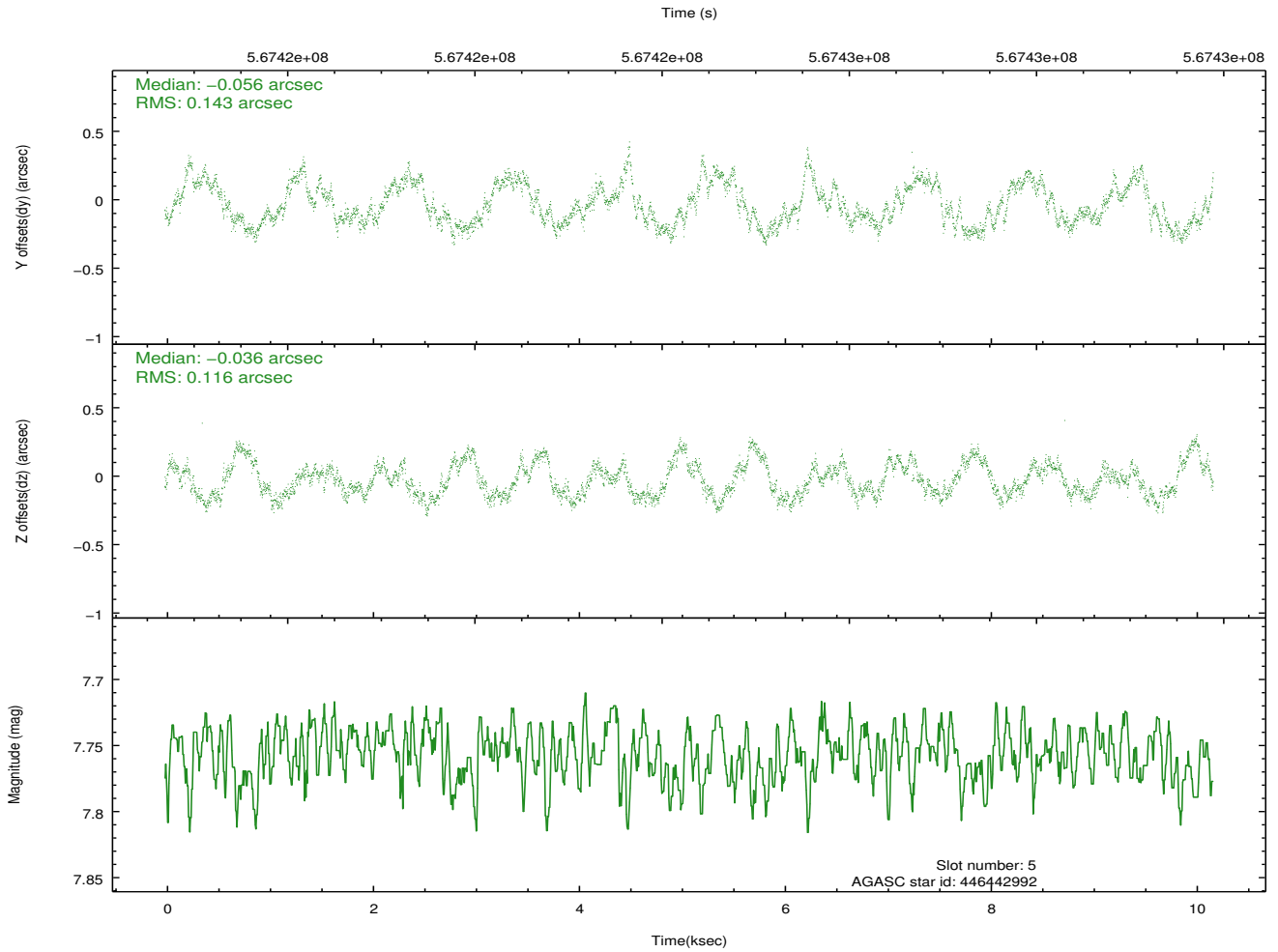
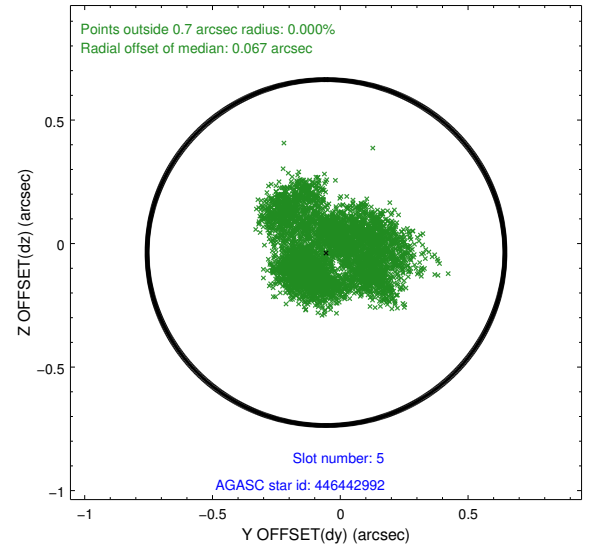
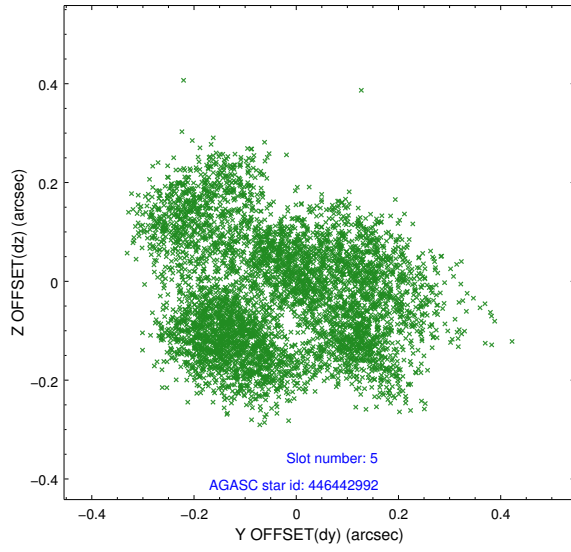
### 2.4.1 Slot 3



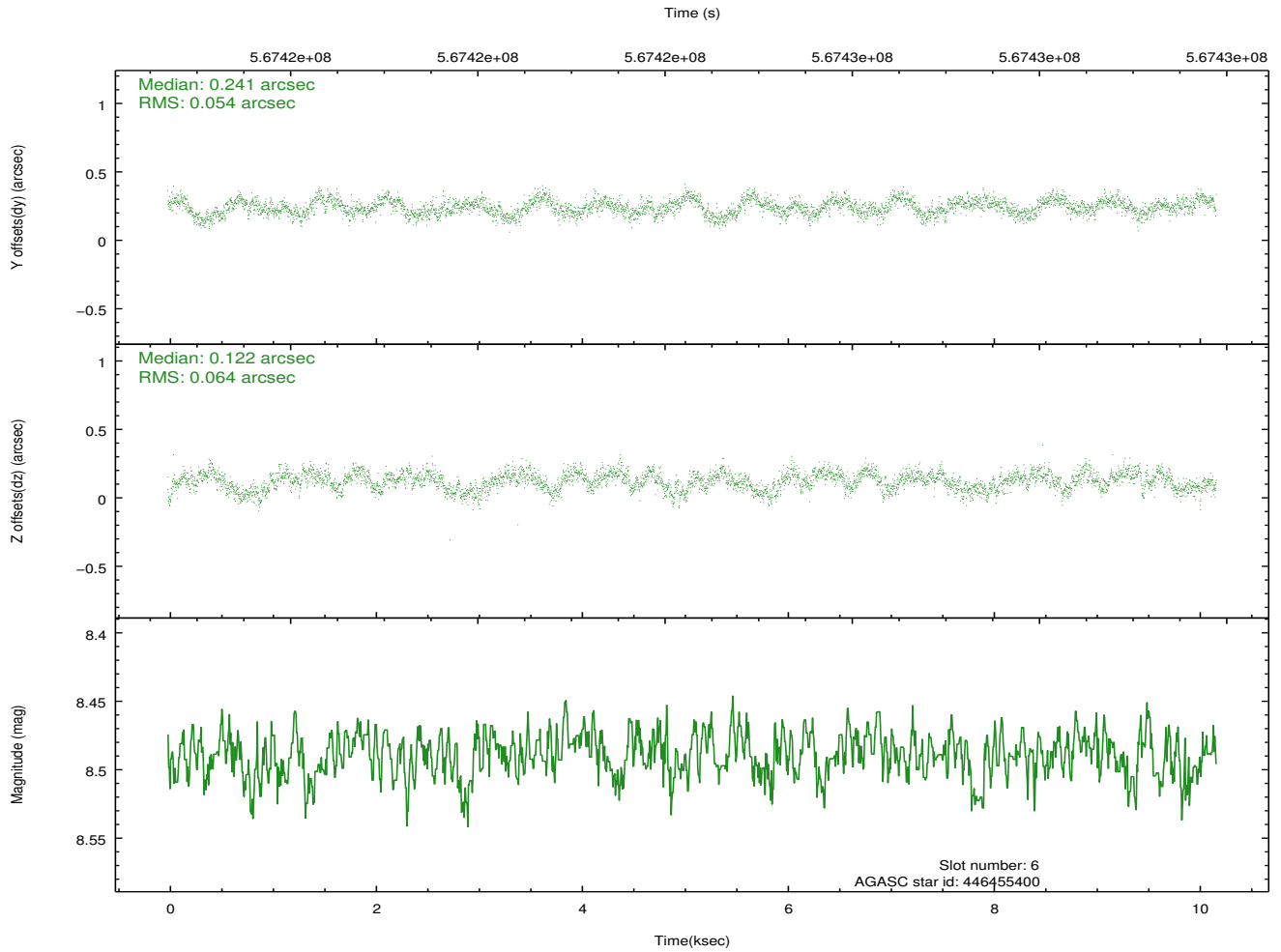
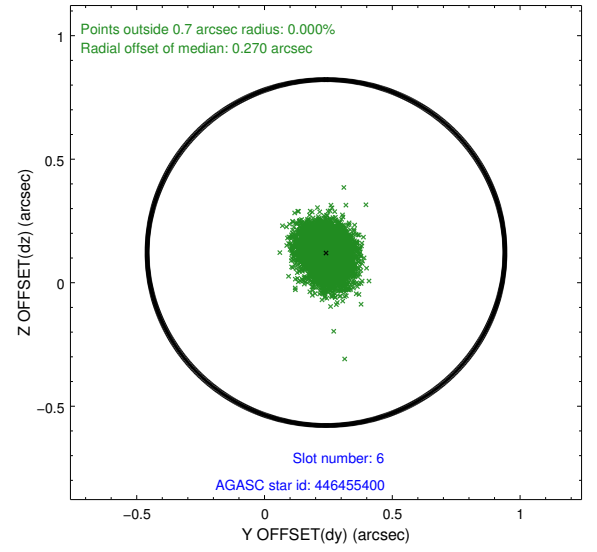
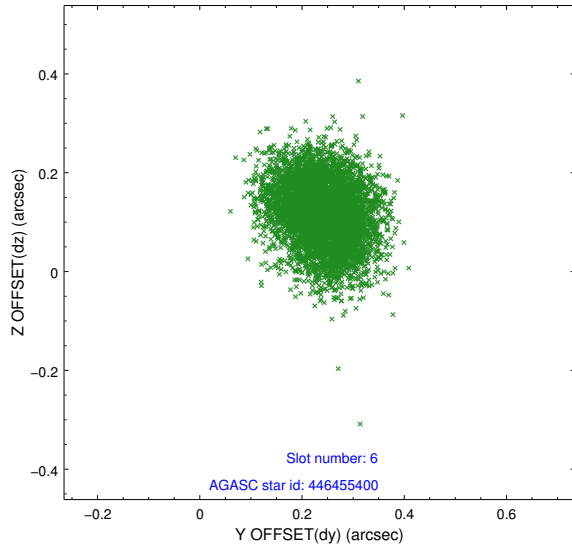
## 2.4.2 Slot 4



### 2.4.3 Slot 5

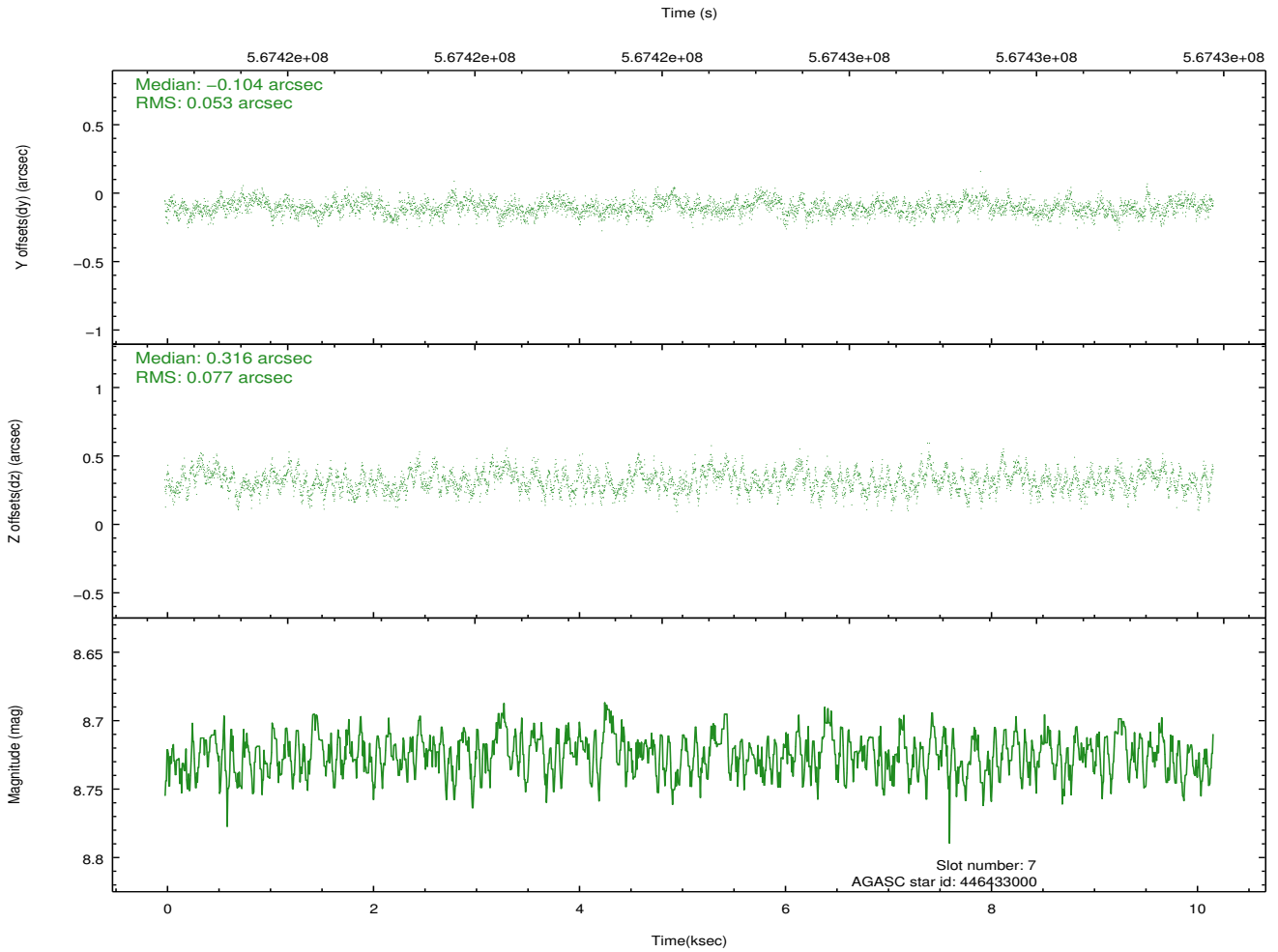
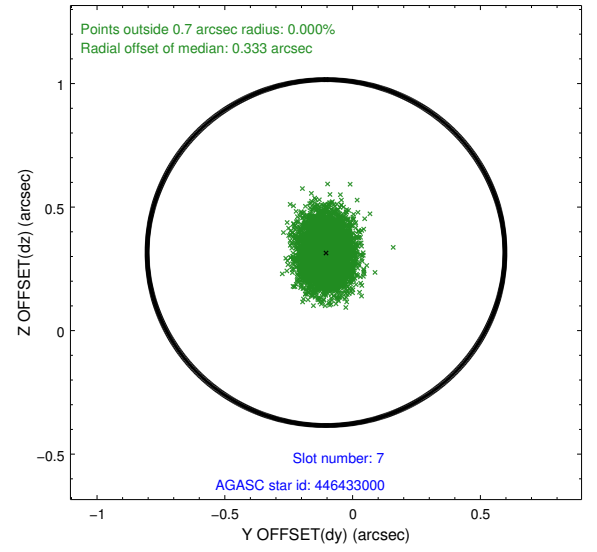
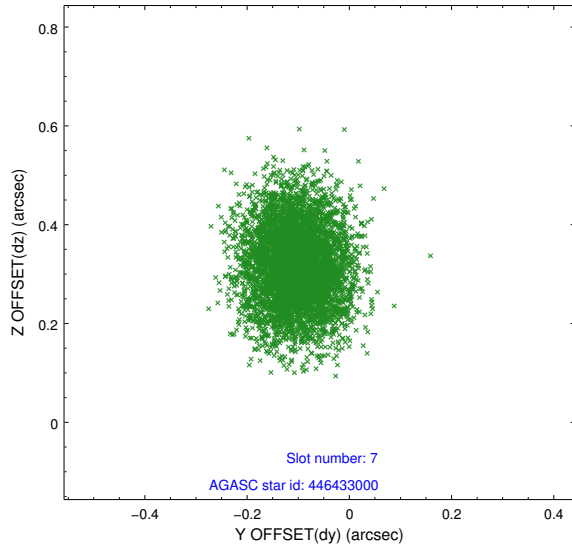


## 2.4.4 Slot 6



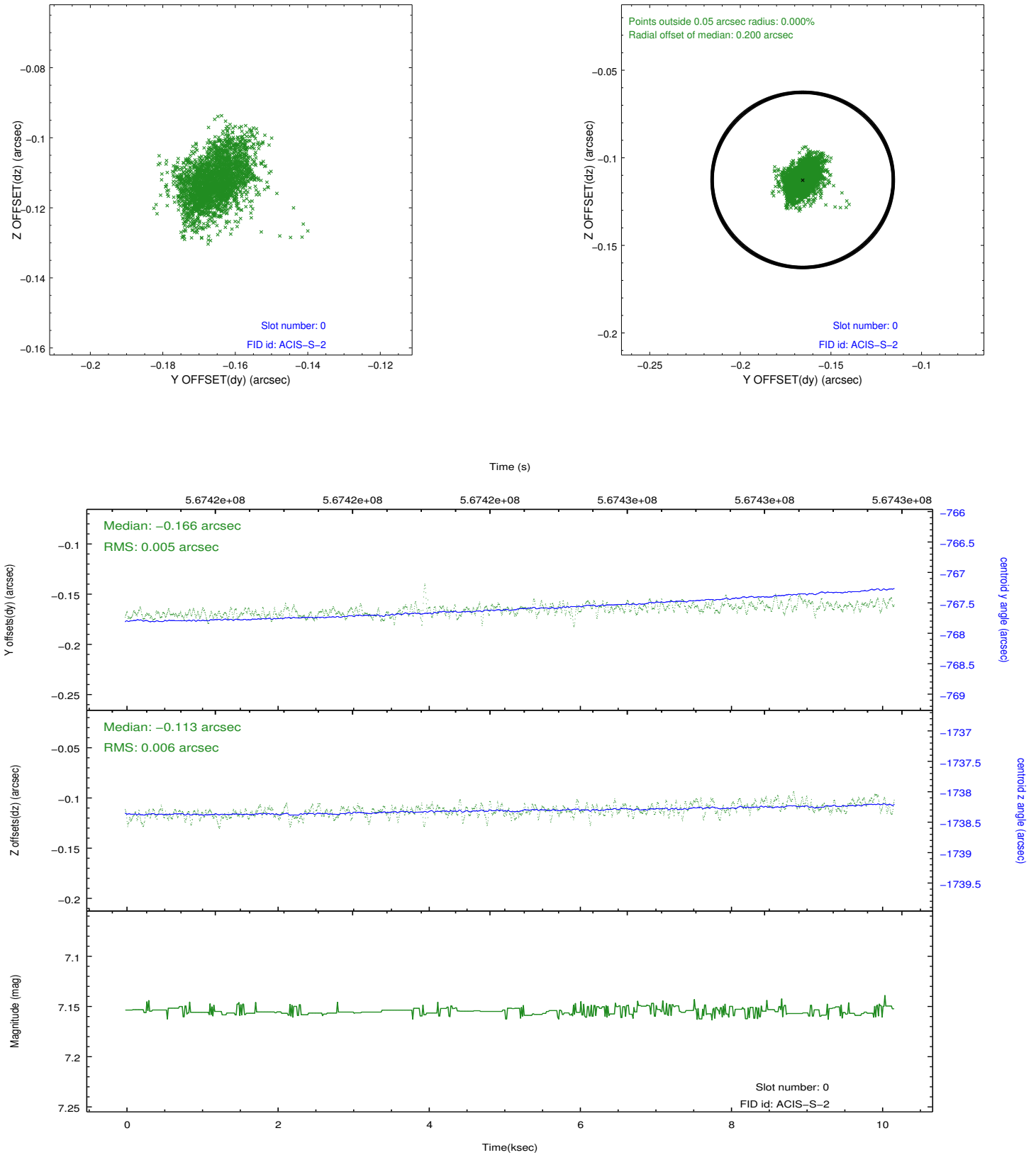


## 2.4.5 Slot 7

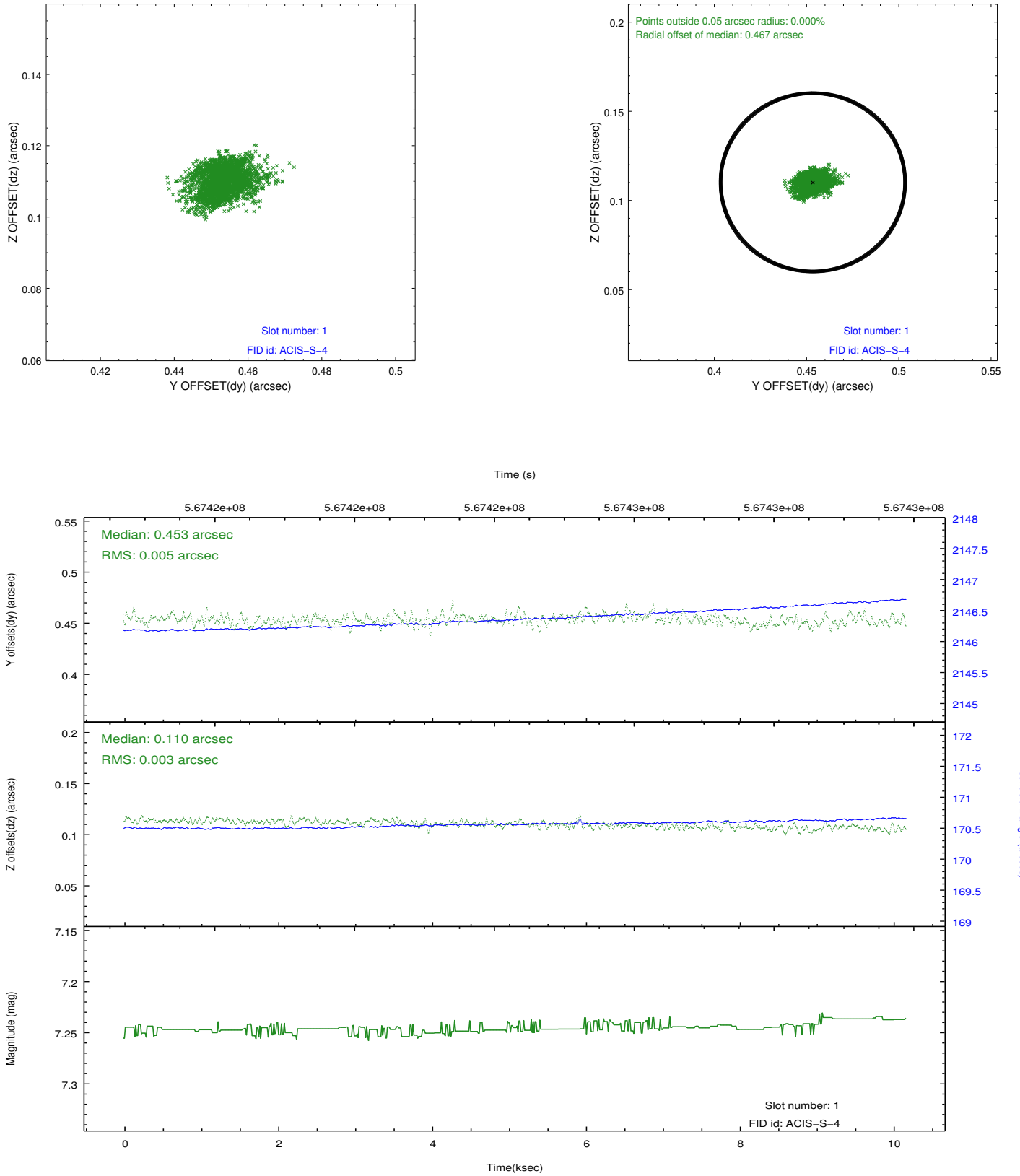


## 2.5 FID Slots

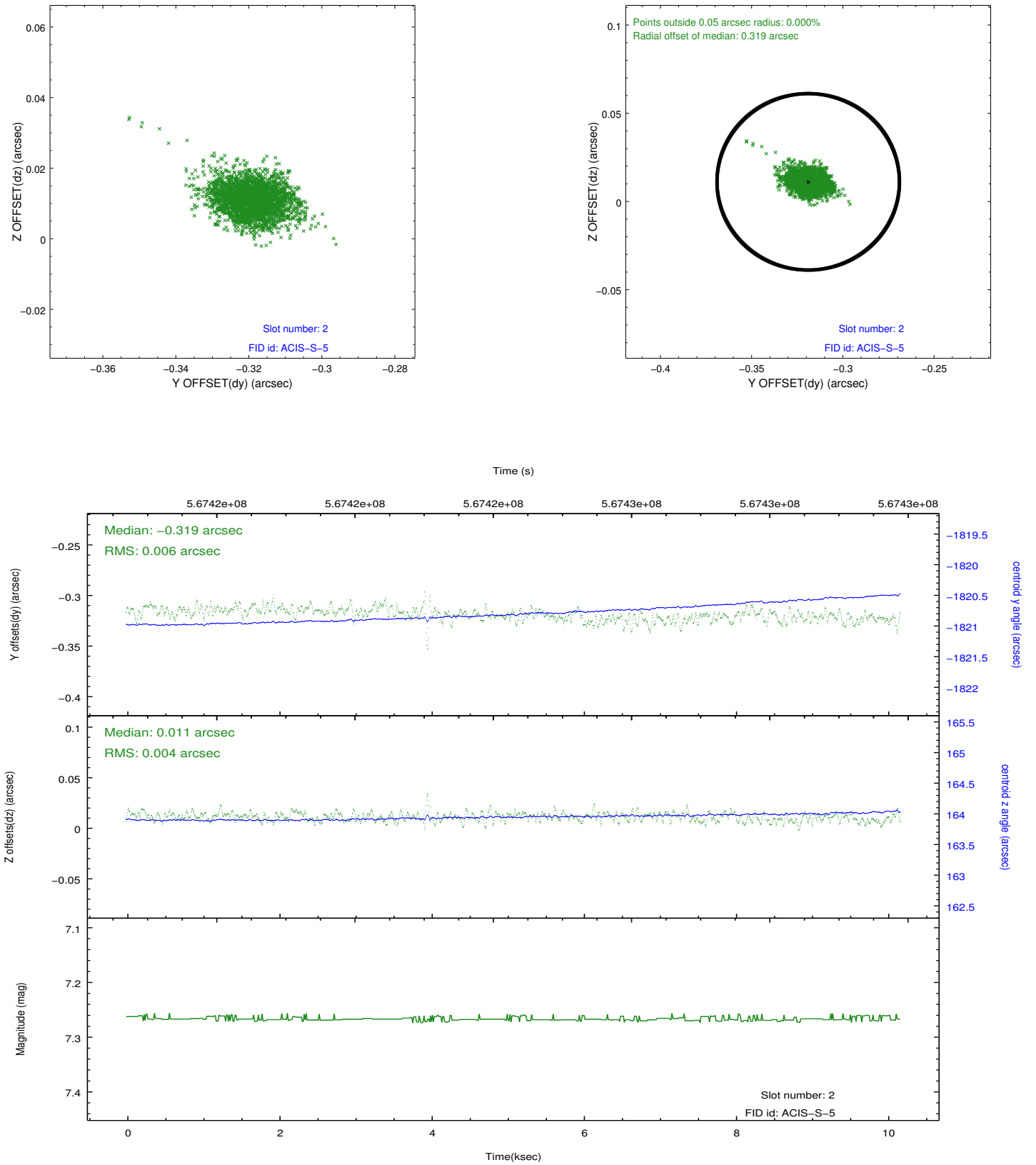
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2015.12.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.06061082685

### A.2 Comments