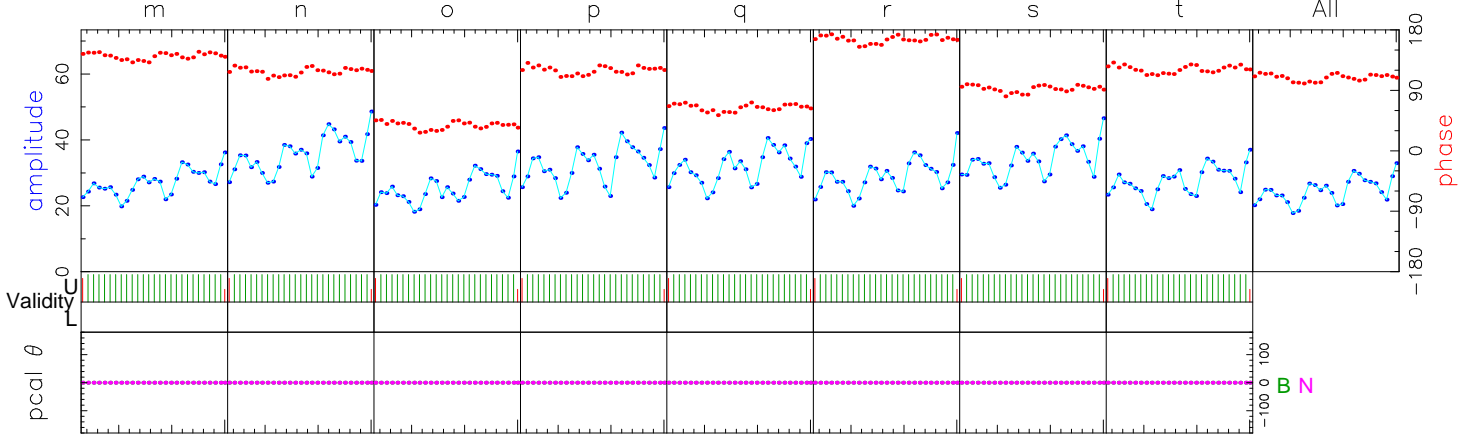


Amp. and Phase vs. time for each freq., 27 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	53/0	53/0	53/0	53/0	53/0	53/0	53/0	53/0		
B	0	0	0	0	0	0	0	0		
N	0	0	0	0	0	0	0	0		
B:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
N	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Chan ids
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Tracks

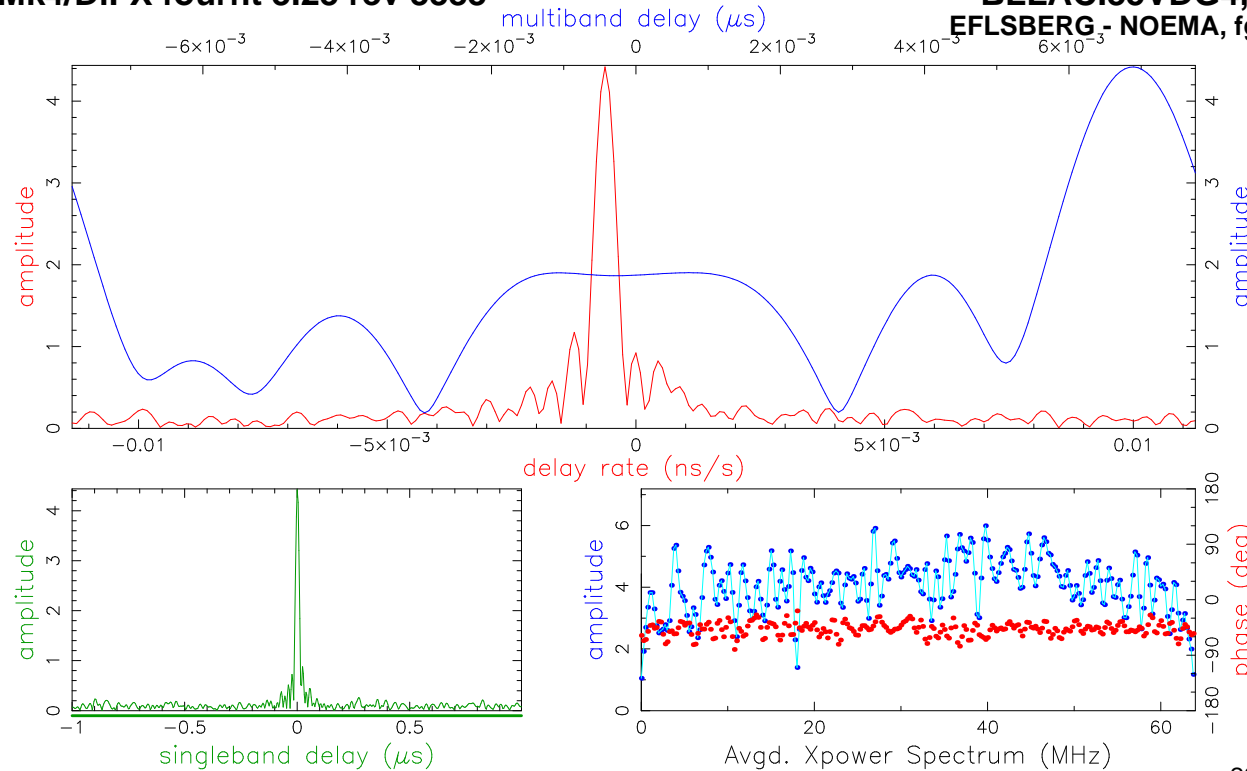
Group delay (usec) (SBD)	-2.01063732058E+02	Apriori delay (usec)	-2.01070729637E+02	Resid mbdelay (usec)	6.99758E-03	+/-	3.1E-06
Sband delay (usec)	-2.01070001887E+02	Apriori clock (usec)	-2.1254005E+01	Resid sbdelay (usec)	7.27750E-04	+/-	2.5E-05
Phase delay (usec)	-2.01070726125E+02	Apriori clockrate (us/s)	4.1220581E-07	Resid phdelay (usec)	3.51154E-06	+/-	1.1E-08
Delay rate (us/s)	-2.20968734519E-02	Apriori rate (us/s)	-2.20962813358E-02	Resid rate (us/s)	-5.92116E-07	+/-	6.8E-10
Total phase (deg)	-125.4	Apriori accel (us/s/s)	6.21836830494E-06	Resid phase (deg)	108.9	+/-	0.3

ph/seg (deg)	4.9	RMS	24.472 +/- 0.071	PCal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5	
amp/seg (%)	14.4	Theor.	23.317	PCal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000 1.000	
ph/frq (deg)	44.6	Search (128X32)	0.000	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008 0.008
amp/frq (%)	27.1	Interp.	24.477	Data rate (MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011 0.011	
		Inc. seg. avg.	30.172	Data rate (Mb/s):	2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00 0.00

B: az 148.3 el 80.7 pa -26.6      N: az 109.5 el 84.1 pa -63.3      u,v (fr/asec) 186.548 895.725      simultaneous interpolator

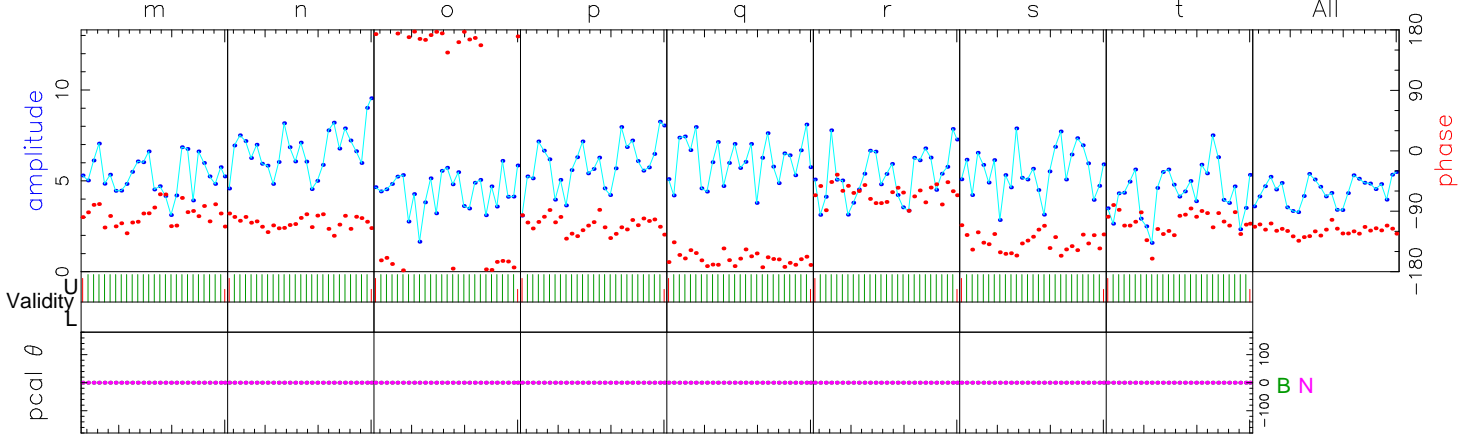
Control file: cf\_1234\_gmva      Input file: /Exps/t241/FRINGE/1234/No0093/BN..35VDG4      Output file: /Exps/t241/FRINGE/1234/No0093/BN.W.10.35VDG4



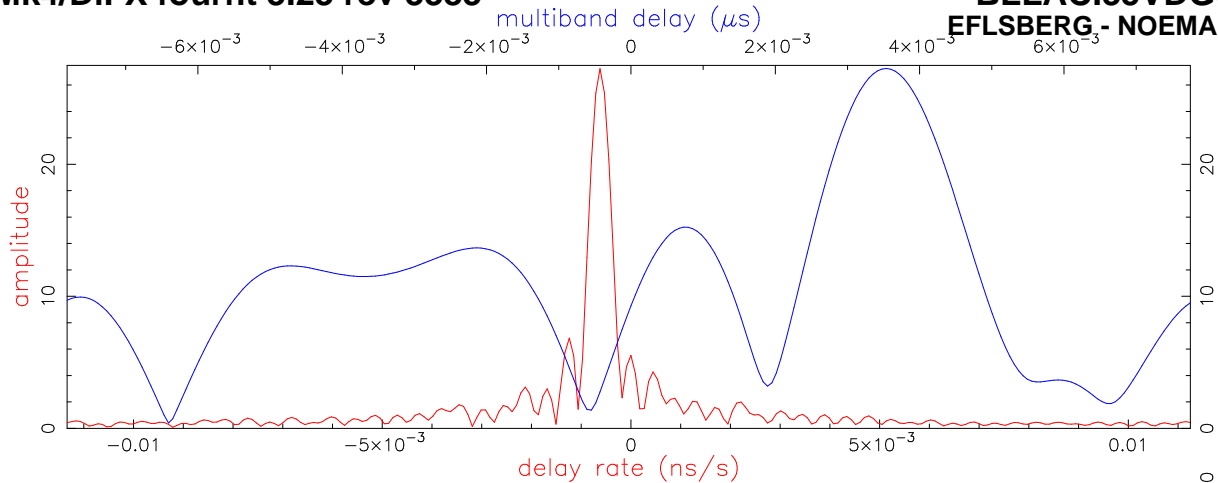


Fringe quality 6  
 SNR 62.9  
 Int time 26.951  
 Amp 4.437  
 Phase -118.6  
 PFD 0.0e+00  
 Delays (us)  
 SBD 0.000738  
 MBD 0.006909  
 Fringe rate (Hz)  
 -0.050413  
 Ion TEC 0.000  
 Ref freq (MHz)  
 86140.0000  
 AP (sec) 0.512  
 Exp. t241a  
 Exper # 1234  
 Yr:day 2024:079  
 Start 092432.89  
 Stop 092500.03  
 FRT 092446.00  
 Corr/FF/build  
 2024:080:073750  
 2024:080:073816  
 2023:348:201045  
 RA & Dec (J2000)  
 22h02m43.291370s  
 +42°16'39.979897"

Amp. and Phase vs. time for each freq., 27 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec



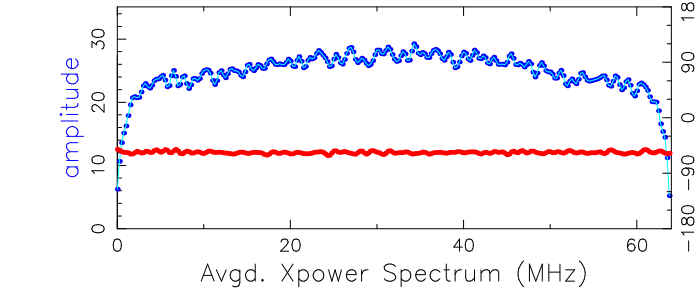
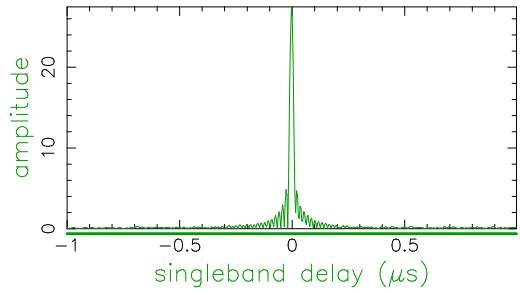
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All	
	-93.7	-107.1	177.5	-109.8	-160.7	-63.0	-136.8	-105.1	Phase	-118.6	
	5.2	6.6	4.3	5.8	6.0	5.2	5.4	4.3	Ampl.	5.3	
	255.4	257.1	258.0	257.8	258.1	257.9	257.8	256.1	Sbd box	257.2	
U/L	53/0	53/0	53/0	53/0	53/0	53/0	53/0	53/0	APs used		
B	0	0	0	0	0	0	0	0	PC freqs		
N	0	0	0	0	0	0	0	0	PC freqs		
B:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase		
B:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC		
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp		
N	1000	1000	1000	1000	1000	1000	1000	1000			
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids		
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks		
									Tracks		
Group delay (usec) (SBD)	-2.01063820339E+02		Apriori delay (usec)		-2.01070729637E+02		Resid mbdelay (usec)		6.90930E-03 +/- 1.7E-05		
Sband delay (usec)	-2.01069991887E+02		Apriori clock (usec)		-2.1254005E+01		Resid sbdelay (usec)		7.37750E-04 +/- 1.4E-04		
Phase delay (usec)	-2.01070733460E+02		Apriori clockrate (us/s)		4.1220581E-07		Resid phdelay (usec)		-3.82317E-06 +/- 5.9E-08		
Delay rate (us/s)	-2.20968665817E-02		Apriori rate (us/s)		-2.20962813358E-02		Resid rate (us/s)		-5.85246E-07 +/- 3.7E-09		
Total phase (deg)			Apriori accel (us/s/s)		6.21836830494E-06		Resid phase (deg)		-118.6 +/- 1.8		
	RMS	Theor.	Amplitude	4.437 +/- 0.071		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
ph/seg (deg)	6.7	4.7	Search (128X32)	4.291		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)		-1.000 1.000	
amp/seg (%)	15.2	8.3	Interp.	0.000		Bits/sample: 2x2		SampCntNorm: enabled		mb window (us)	-0.008 0.008
ph/frq (deg)	41.4	2.6	Inc. seg. avg.	4.437		Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us		dr window (ns/s)		-0.011 0.011	
amp/frq (%)	26.4	4.5	Inc. frq. avg.	5.328		Data rate(Mb/s): 2048		nlags: 256 t_cohere infinite		ion window (TEC)	0.00 0.00
B: az 148.3 el 80.7 pa -26.6	N: az 109.5 el 84.1 pa -63.3		u, v (fr/asec) 186.548 895.725						simultaneous interpolator		
Control file: cf_1234_gmva	Input file: /Exps/t241/FRINGE/1234/No0093/BN..35VDG4		Output file: /Exps/t241/FRINGE/1234/No0093/BN.W.12.35VDG4								



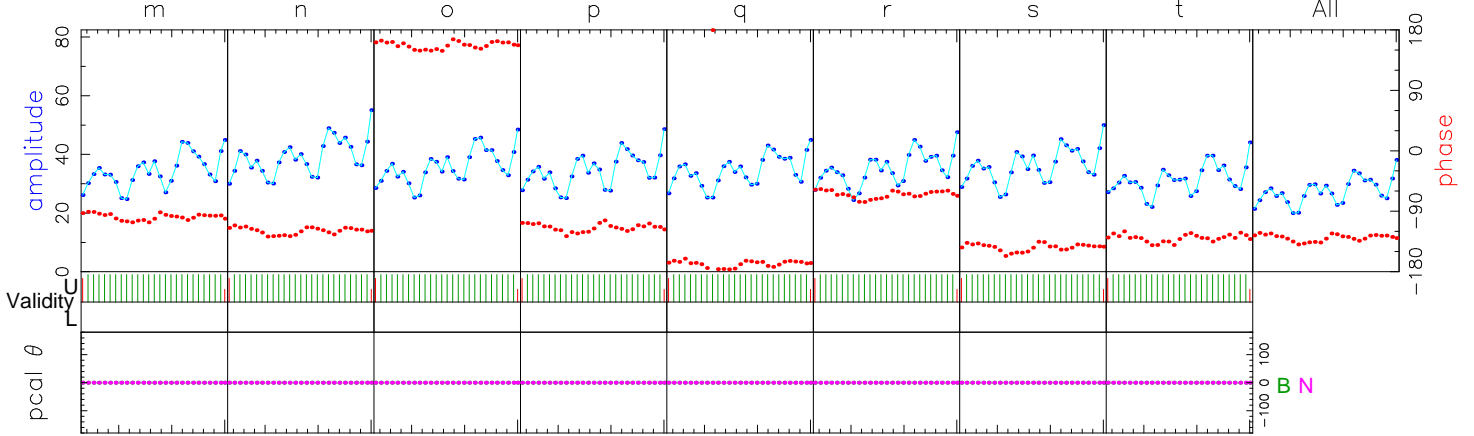
Fringe quality 6

SNR 389.8  
Int time 26.951  
Amp 27.490  
Phase -129.4  
PFD 0.0e+00  
Delays (us)  
SBD -0.002754  
MBD 0.003571  
Fringe rate (Hz)  
-0.050919  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512

Exp. t241a  
Exper # 1234  
Yr:day 2024:079  
Start 092432.89  
Stop 092500.03  
FRT 092446.00  
Corr/FF/build  
2024:080:073750  
2024:080:073815  
2023:348:201045  
RA & Dec (J2000)  
22h02m43.291370s  
+42°16'39.979897"



Amp. and Phase vs. time for each freq., 27 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

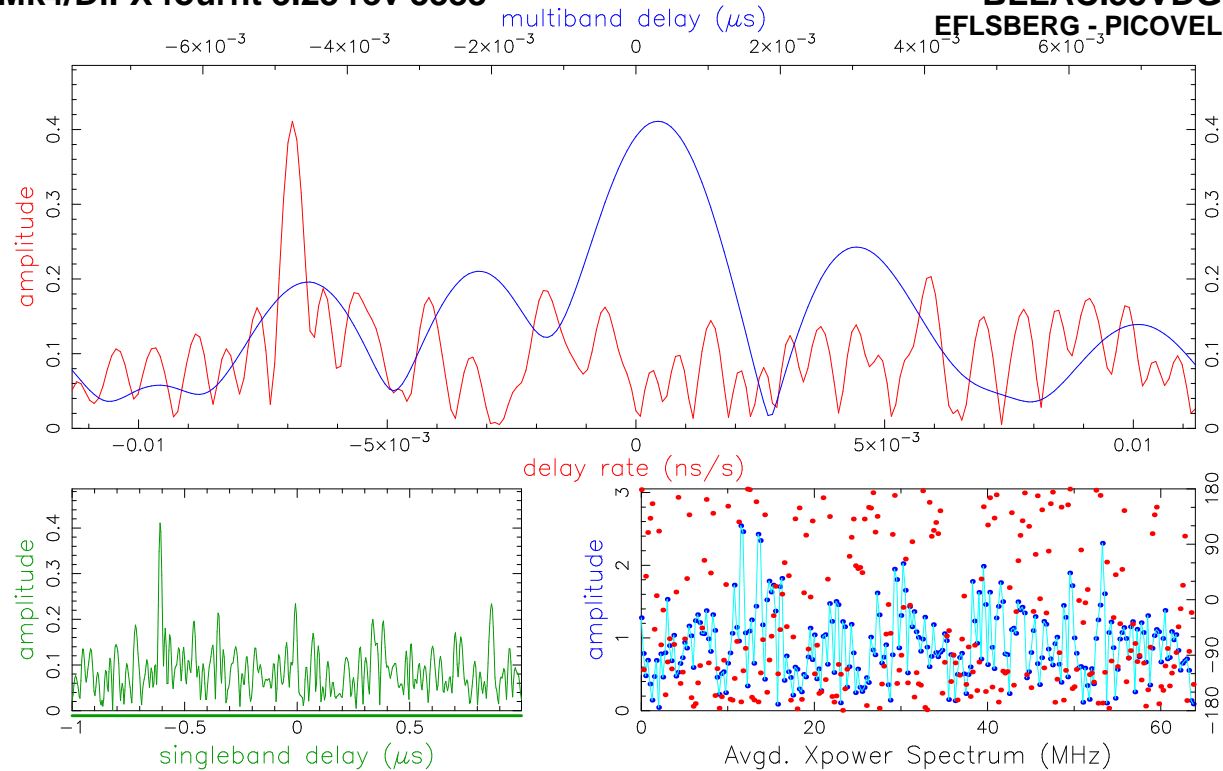


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-98.3	-119.2	157.1	-114.3	-168.6	-65.0	-143.6	-129.8	Phase	-129.4
	34.2	38.8	35.5	34.3	34.3	34.8	35.9	31.2	Ampl.	34.9
	254.9	256.0	257.1	257.1	257.1	256.9	256.6	255.4	Sbd box	256.3
U/L	53/0	53/0	53/0	53/0	53/0	53/0	53/0	53/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
N	0	0	0	0	0	0	0	0	PC freqs	
B:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:N	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
N	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	

Group delay (usec) (SBD) -2.01067159089E+02 Apriori delay (usec) -2.01070729637E+02 Resid mbdelay (usec) 3.57055E-03 +/- 2.8E-06  
 Sband delay (usec) -2.01073483887E+02 Apriori clock (usec) -2.1254005E+01 Resid sbdelay (usec) -2.75425E-03 +/- 2.2E-05  
 Phase delay (usec) -2.01070733808E+02 Apriori clockrate (us/s) 4.1220581E-07 Resid phdelay (usec) -4.17140E-06 +/- 9.5E-09  
 Delay rate (us/s) -2.20968724543E-02 Apriori rate (us/s) -2.20962813358E-02 Resid rate (us/s) -5.91118E-07 +/- 6.1E-10  
 Total phase (deg) -3.7 Apriori accel (us/s/s) 6.21836830494E-06 Resid phase (deg) -129.4 +/- 0.3

RMS Theor. Amplitude 27.490 +/- 0.071 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 4.9 0.8 Search (128X32) 26.171 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 amp/seg (%) 14.7 1.3 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 ph/frq (deg) 45.8 0.4 Inc. seg. avg. 27.362 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011  
 amp/frq (%) 27.8 0.7 Inc. frq. avg. 34.863 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00

B: az 148.3 el 80.7 pa -26.6 N: az 109.5 el 84.1 pa -63.3 u,v (fr/asec) 186.548 895.725 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/t241/FRINGE/1234/No0093/BN..35VDG4 Output file: /Exps/t241/FRINGE/1234/No0093/BN.W.9.35VDG4

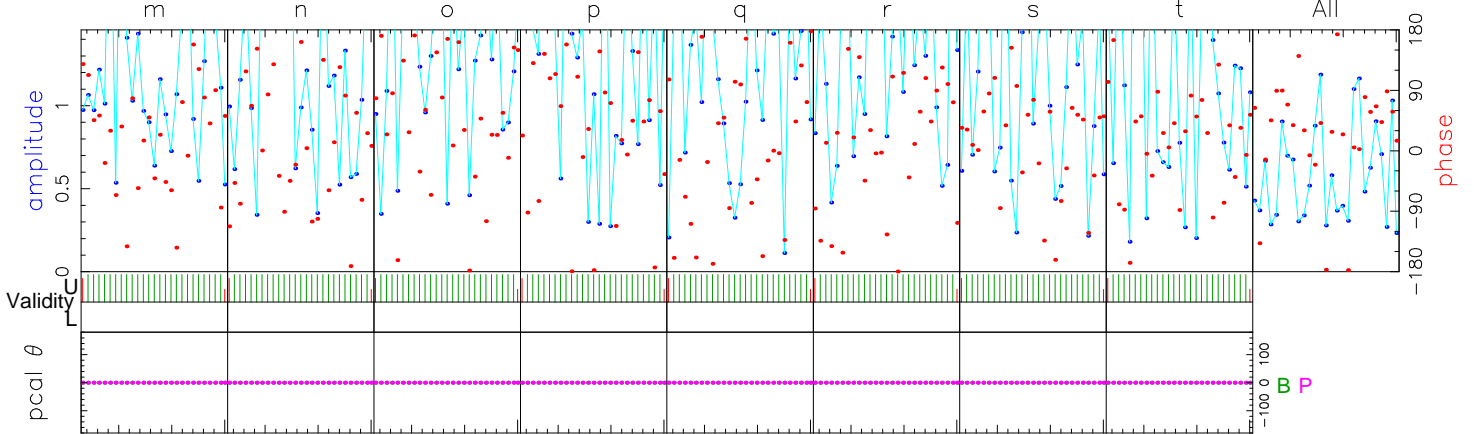


Fringe quality 0

SNR 5.9  
Int time 26.951  
Amp 0.486  
Phase 42.5  
PFD 6.4e-02  
Delays (us)  
SBD -0.608314  
MBD 0.000334  
Fringe rate (Hz)  
-0.599023  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512

Exp. t241a  
Exper # 1234  
Yr:day 2024:079  
Start 092432.89  
Stop 092500.03  
FRT 092446.00  
Corr/FF/build  
2024:080:073750  
2024:080:073800  
2023:348:201045  
RA & Dec (J2000)  
22h02m43.291370s  
+42°16'39.979897"

Amp. and Phase vs. time for each freq., 27 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

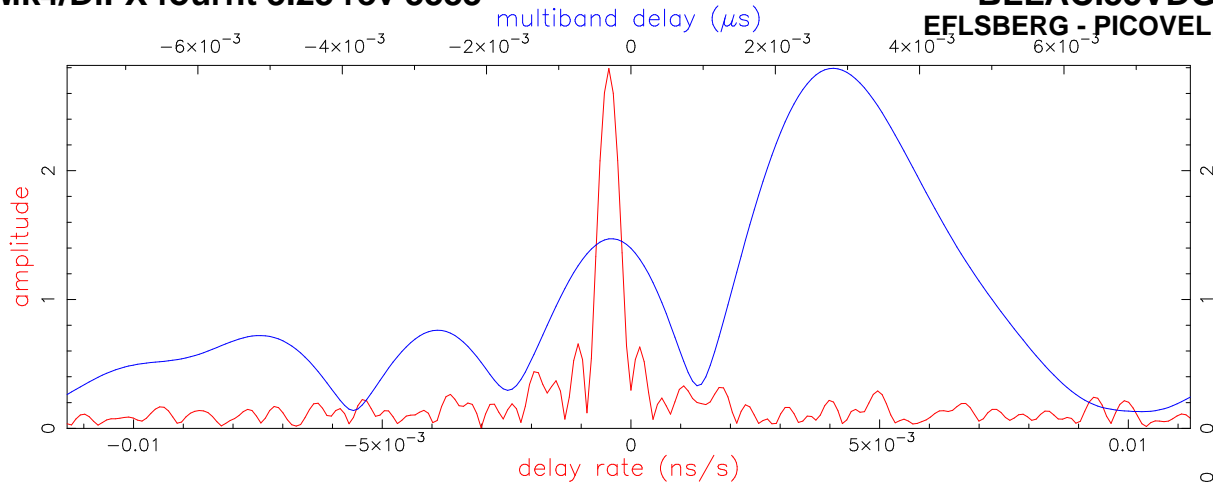


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	53/0	53/0	53/0	53/0	53/0	53/0	53/0	53/0		
B	0	0	0	0	0	0	0	0		
P	0	0	0	0	0	0	0	0		
B:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
P	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
P	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		

Group delay (usec) (SBD) 2.58940417193E+02 Apriori delay (usec) 2.59549458265E+02 Resid mbdelay (usec) 3.33928E-04 +/- 1.8E-04  
 Sband delay (usec) 2.58941144515E+02 Apriori clock (usec) -3.3785004E+01 Resid sbdelay (usec) -6.08314E-01 +/- 1.5E-03  
 Phase delay (usec) 2.59549459636E+02 Apriori clockrate (us/s) 3.9827031E-07 Resid phdelay (usec) 1.37066E-06 +/- 6.3E-07  
 Delay rate (us/s) -1.78845012553E-01 Apriori rate (us/s) -1.78838058485E-01 Resid rate (us/s) -6.95407E-06 +/- 4.0E-08  
 Total phase (deg) 163.1 Apriori accel (us/s/s) 1.13000820482E-05 Resid phase (deg) 42.5 +/- 19.5

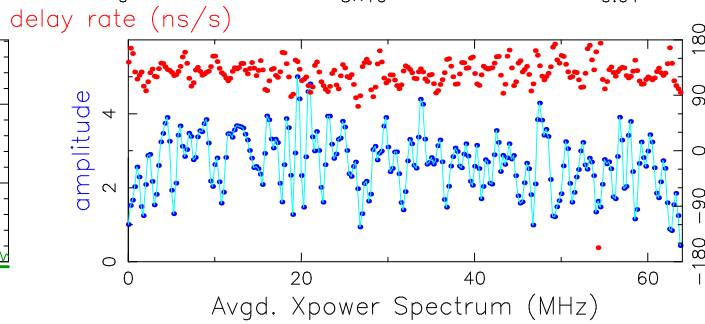
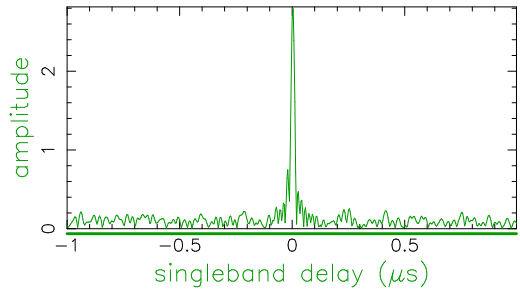
RMS Theor. Amplitude 0.486 +/- 0.083 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 ph/seg (deg) 68.1 50.6 Search (128X32) 0.397 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 amp/seg (%) 84.4 88.4 Interp. 0.000 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 ph/frq (deg) 43.7 27.6 Inc. seg. avg. 0.509 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011  
 amp/frq (%) 47.6 48.1 Inc. frq. avg. 0.486 Data rate(Mb/s): 2048 nlags: 256 t\_cohere infinite ion window (TEC) 0.00 0.00

B: az 148.3 el 80.7 pa -26.6 P: az 62.4 el 76.0 pa -106.8 u,v (fr/asec) 1414.591 1894.487 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/t241/FRINGE/1234/No0093/BP..35VDG4 Output file: /Exps/t241/FRINGE/1234/No0093/BP.W.1.35VDG4



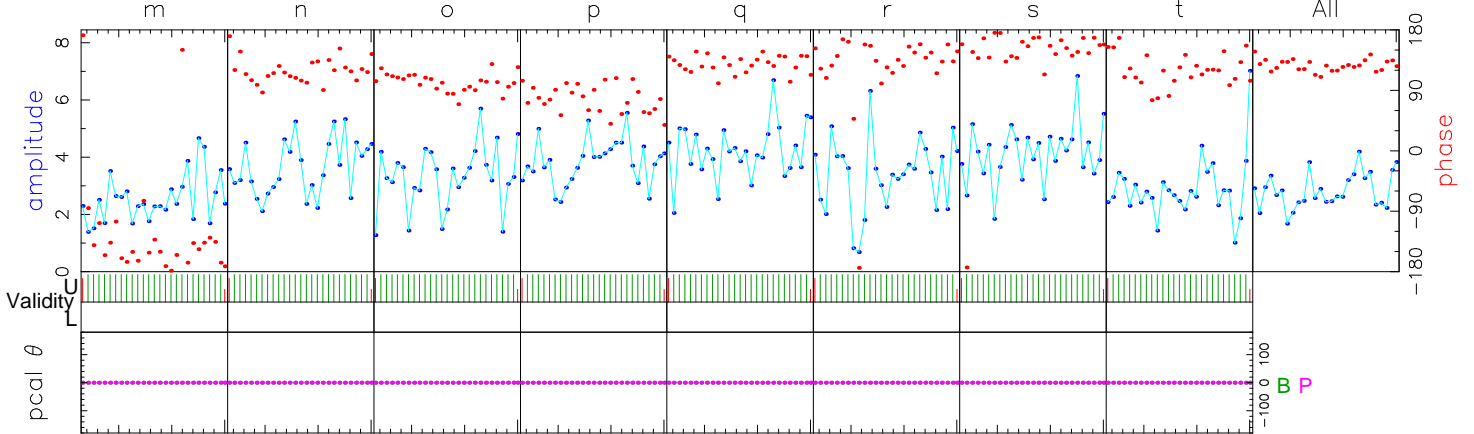
Fringe quality 6

SNR 40.0  
Int time 26.951  
Amp 2.817  
Phase 127.2  
PFD 0.0e+00  
Delays (us)  
SBD 0.002789  
MBD 0.002766  
Fringe rate (Hz)  
-0.039540  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512



Exp. t241a  
Exper # 1234  
Yr:day 2024:079  
Start 092432.89  
Stop 092500.03  
FRT 092446.00  
Corr/FF/build  
2024:080:073750  
2024:080:073800  
2023:348:201045  
RA & Dec (J2000)  
22h02m43.291370s  
+42°16'39.979897"

Amp. and Phase vs. time for each freq., 27 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec



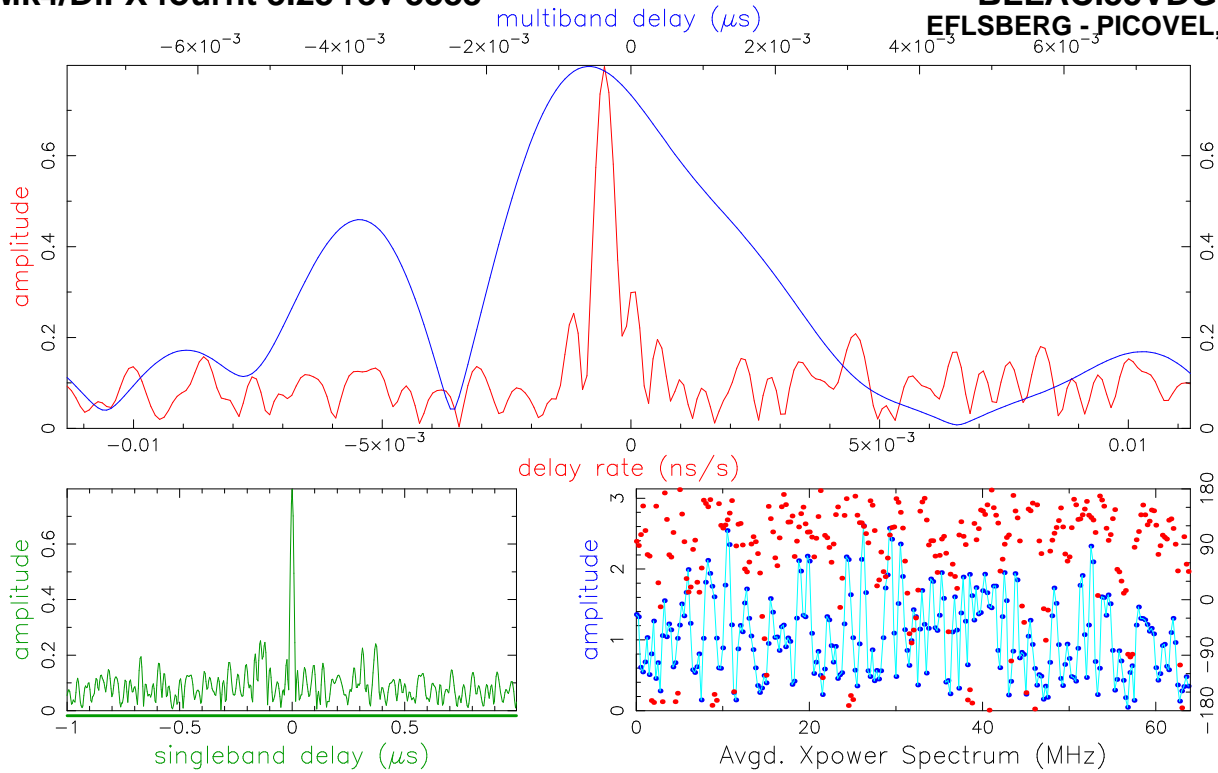
	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	53/0	53/0	53/0	53/0	53/0	53/0	53/0	53/0		
B	0	0	0	0	0	0	0	0		
P	0	0	0	0	0	0	0	0		
B:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
B	1000	1000	1000	1000	1000	1000	1000	1000		
P	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Chan ids
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		Tracks

Group delay (usec) (SBD)	2.59552223906E+02	Apriori delay (usec)	2.59549458265E+02	Resid mbdelay (usec)	2.76564E-03	+/-	2.7E-05
Sband delay (usec)	2.59552247265E+02	Apriori clock (usec)	-3.3785004E+01	Resid sbdelay (usec)	2.78900E-03	+/-	2.2E-04
Phase delay (usec)	2.59549462368E+02	Apriori clockrate (us/s)	3.9827031E-07	Resid phdelay (usec)	4.10322E-06	+/-	9.2E-08
Delay rate (us/s)	-1.78838517506E-01	Apriori rate (us/s)	-1.78838058485E-01	Resid rate (us/s)	-4.59021E-07	+/-	5.9E-09
Total phase (deg)	247.8	Apriori accel (us/s/s)	1.13000820482E-05	Resid phase (deg)	127.2	+/-	2.9

ph/seg (deg)	8.6	Theor.	7.4	Amplitude	2.817 +/- 0.070	Pcal mode:	MANUAL, MANUAL	PC period (AP's)	5, 5
amp/seg (%)	21.1	Search (128X32)	2.650	Pcal rate:	0.000E+00, 0.000E+00 (us/s)	sb window (us)	-1.000	1.000	
ph/frq (deg)	43.0	Inc. seg. avg.	2.804	Bits/sample:	2x2	SampCntNorm: enabled	mb window (us)	-0.008	0.008
amp/frq (%)	27.6	Inc. frq. avg.	3.309	Data rate(MSamp/s):	128 MBpts 32 Amb 0.016 us	dr window (ns/s)	-0.011	0.011	
				Data rate(Mb/s):	2048	nlags: 256 t_cohere infinite	ion window (TEC)	0.00	0.00

B: az 148.3 el 80.7 pa -26.6 P: az 62.4 el 76.0 pa -106.8 u,v (fr/asec) 1414.591 1894.487 simultaneous interpolator

Control file: cf\_1234\_gmva Input file: /Exps/t241/FRINGE/1234/No0093/BP..35VDG4 Output file: /Exps/t241/FRINGE/1234/No0093/BP.W.2.35VDG4

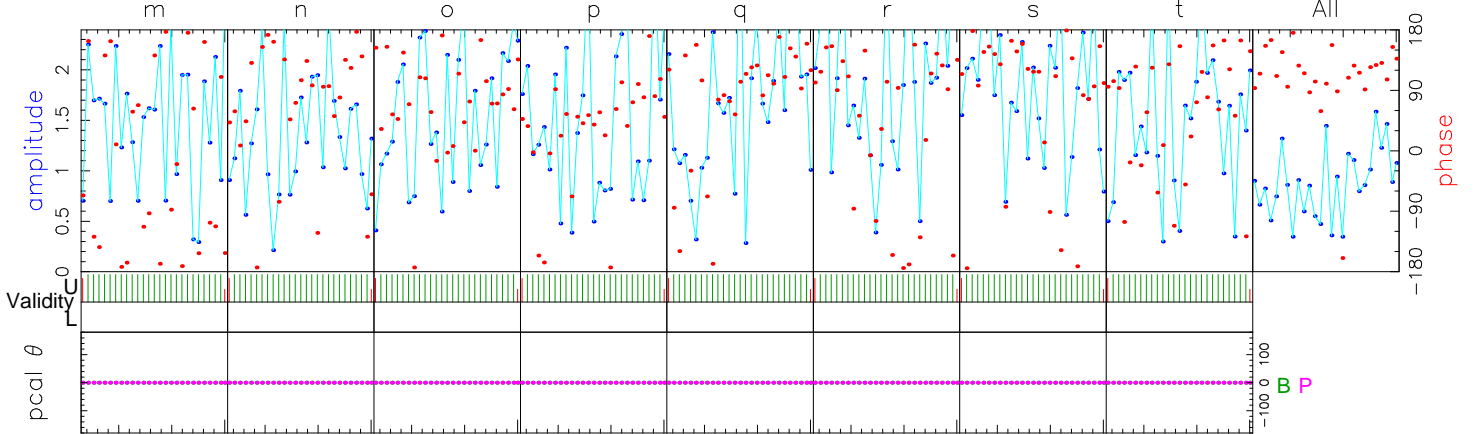


Fringe quality 9

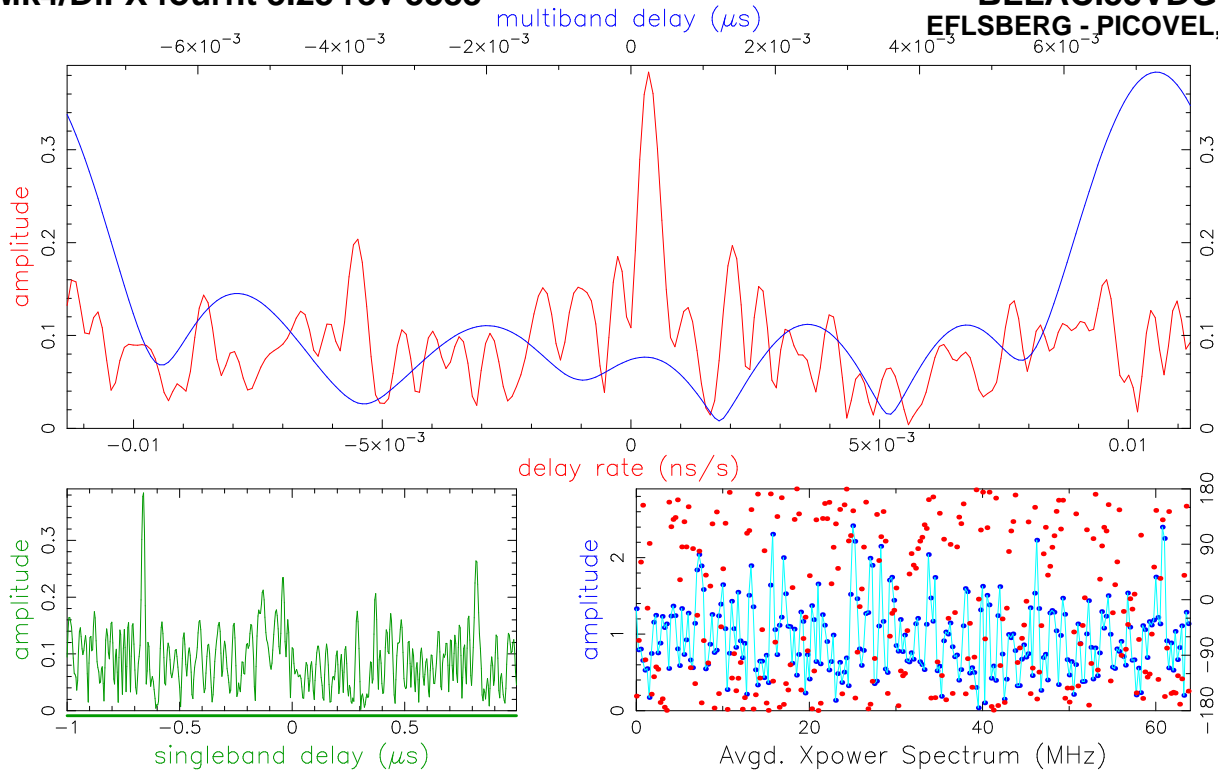
SNR 11.3  
Int time 26.951  
Amp 0.799  
Phase 119.1  
PFD 2.7e-22  
Delays (us)  
SBD -0.000625  
MBD -0.000610  
Fringe rate (Hz)  
-0.043425  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512

Exp. t241a  
Exper # 1234  
Yr:day 2024:079  
Start 092432.89  
Stop 092500.03  
FRT 092446.00  
Corr/FF/build  
2024:080:073750  
2024:080:073800  
2023:348:201045  
RA & Dec (J2000)  
22h02m43.291370s  
+42°16'39.979897"

Amp. and Phase vs. time for each freq., 27 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec

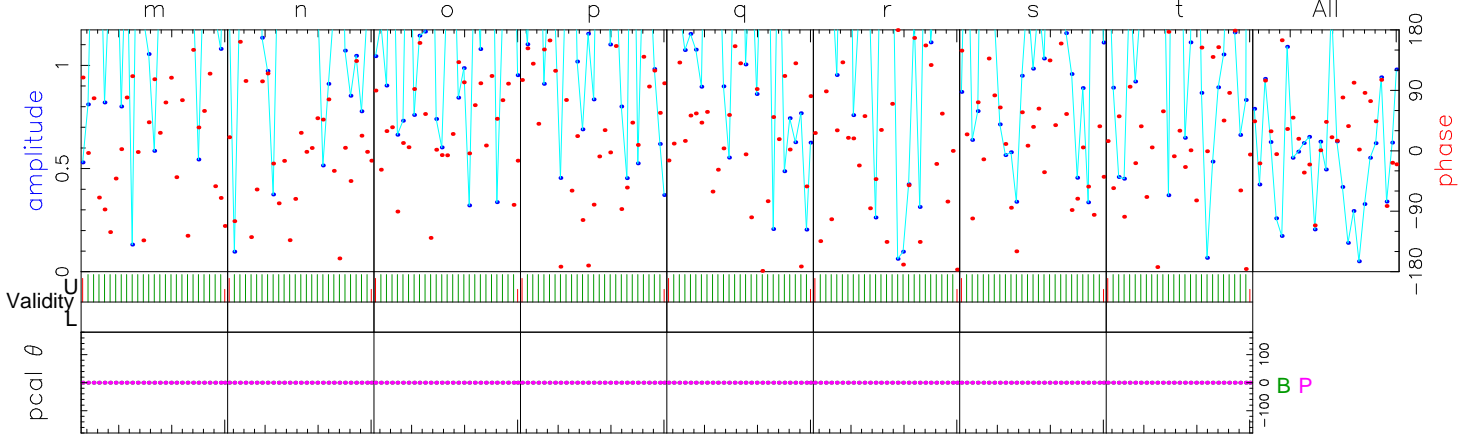


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-159.0	117.3	78.0	65.4	124.6	134.3	141.6	108.1	Phase	119.1
	0.7	0.7	1.0	1.1	1.2	1.2	1.3	0.6	Ampl.	1.0
	254.2	255.1	256.2	256.8	257.1	256.5	256.8	255.3	Sbd box	256.8
U/L	53/0	53/0	53/0	53/0	53/0	53/0	53/0	53/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
P	0	0	0	0	0	0	0	0	PC freqs	
B:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids	
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec) (SBD)	2.59548848531E+02					2.59549458265E+02			Resid mbdelay (usec)	-6.09734E-04 +/- 9.6E-05
Sband delay (usec)	2.59548833515E+02					-3.3785004E+01			Resid sbdelay (usec)	-6.24750E-04 +/- 7.6E-04
Phase delay (usec)	2.59549462106E+02					3.9827031E-07			Resid phdelay (usec)	3.84096E-06 +/- 3.3E-07
Delay rate (us/s)	-1.78838562604E-01					-1.78838058485E-01			Resid rate (us/s)	-5.04119E-07 +/- 2.1E-08
Total phase (deg)			239.7			1.13000820482E-05			Resid phase (deg)	119.1 +/- 10.1
	RMS	Theor.	Amplitude	0.799 +/- 0.070					Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	31.3	26.3	Search (128X32)	0.787					Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	43.8	45.9	Interp.	0.000					SampCntNorm: enabled	mb window (us) -0.008 0.008
ph/frq (deg)	45.1	14.3	Inc. seg. avg.	0.796					Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	dr window (ns/s) -0.011 0.011
amp/frq (%)	37.9	25.0	Inc. frq. avg.	0.952					Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite
B: az 148.3 el 80.7 pa -26.6			P: az 62.4 el 76.0 pa -106.8			u, v (fr/asec) 1414.591 1894.487				ion window (TEC) 0.00 0.00
Control file: cf_1234_gmva			Input file: /Exps/t241/FRINGE/1234/No0093/BP..35VDG4			Output file: /Exps/t241/FRINGE/1234/No0093/BP.W.3.35VDG4				simultaneous interpolator



Fringe quality 0  
SNR 5.5  
Int time 26.951  
Amp 0.391  
Phase 31.3  
PFD 3.6e-01  
Delays (us)  
SBD -0.661786  
MBD 0.007283  
Fringe rate (Hz)  
0.030229  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. t241a  
Exper # 1234  
Yr:day 2024:079  
Start 092432.89  
Stop 092500.03  
FRT 092446.00  
Corr/FF/build  
2024:080:073750  
2024:080:073801  
2023:348:201045  
RA & Dec (J2000)  
22h02m43.291370s  
+42°16'39.979897"

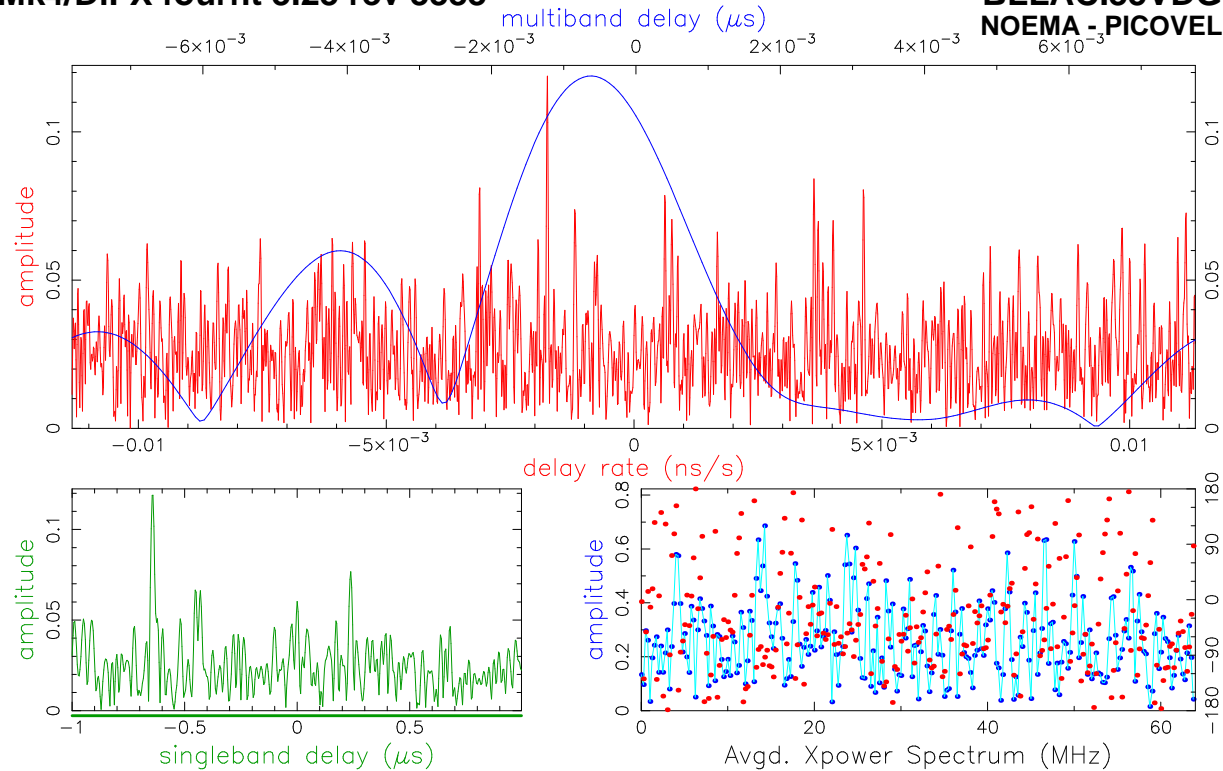
Amp. and Phase vs. time for each freq., 27 segs, 2 APs / seg (1.02 sec / seg.), time ticks 2 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	26.3	-11.2	41.7	75.2	31.4	42.2	30.4	12.9	Phase	31.3
	0.4	0.4	0.6	0.4	0.4	0.3	0.5	0.5	Ampl.	0.4
	442.1	457.2	466.3	224.8	341.6	278.5	169.9	2.8	Sbd box	87.6
U/L	53/0	53/0	53/0	53/0	53/0	53/0	53/0	53/0	APs used	
B	0	0	0	0	0	0	0	0	PC freqs	
P	0	0	0	0	0	0	0	0	PC freqs	
B:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
B:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC	
B	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
B	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
P	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks	
									Tracks	
Group delay (usec) (SBD)	2.58884866254E+02		Apriori delay (usec)		2.59549458265E+02		Resid mbdelay (usec)		7.28299E-03	+/- 2.0E-04
Sband delay (usec)	2.58887672015E+02		Apriori clock (usec)		-3.3785004E+01		Resid sbdelay (usec)		-6.61786E-01	+/- 1.6E-03
Phase delay (usec)	2.59549459274E+02		Apriori clockrate (us/s)		3.9827031E-07		Resid phdelay (usec)		1.00916E-06	+/- 6.7E-07
Delay rate (us/s)	-1.78837707562E-01		Apriori rate (us/s)		-1.78838058485E-01		Resid rate (us/s)		3.50923E-07	+/- 4.3E-08
Total phase (deg)	151.9		Apriori accel (us/s/s)		1.13000820482E-05		Resid phase (deg)		31.3	+/- 20.7

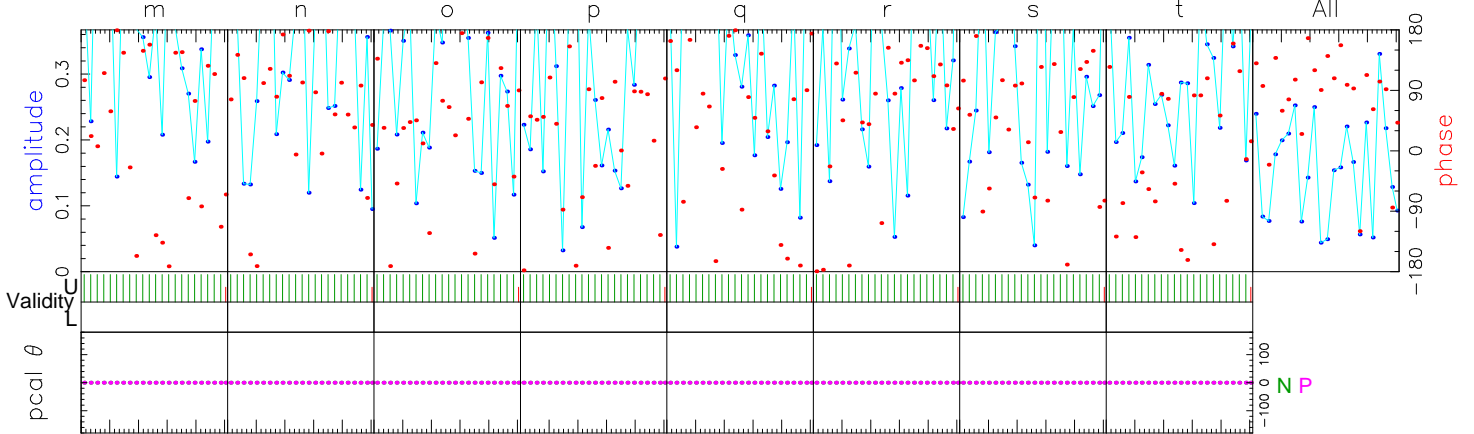
ph/seg (deg) 58.8 53.7 Search (128X32) 0.383 Pcal mode: MANUAL, MANUAL PC period (AP's) 5, 5  
 amp/seg (%) 86.3 93.7 Interp. 0.000 Pcal rate: 0.000E+00, 0.000E+00 (us/s) sb window (us) -1.000 1.000  
 ph/frq (deg) 26.9 29.2 Inc. seg. avg. 0.386 Bits/sample: 2x2 SampCntNorm: enabled mb window (us) -0.008 0.008  
 amp/frq (%) 21.2 51.0 Inc. frq. avg. 0.367 Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us dr window (ns/s) -0.011 0.011  
 B: az 148.3 el 80.7 pa -26.6 P: az 62.4 el 76.0 pa -106.8 u,v (fr/asec) 1414.591 1894.487 simultaneous interpolator  
 Control file: cf\_1234\_gmva Input file: /Exps/t241/FRINGE/1234/No0093/BP..35VDG4 Output file: /Exps/t241/FRINGE/1234/No0093/BP.W.4.35VDG4



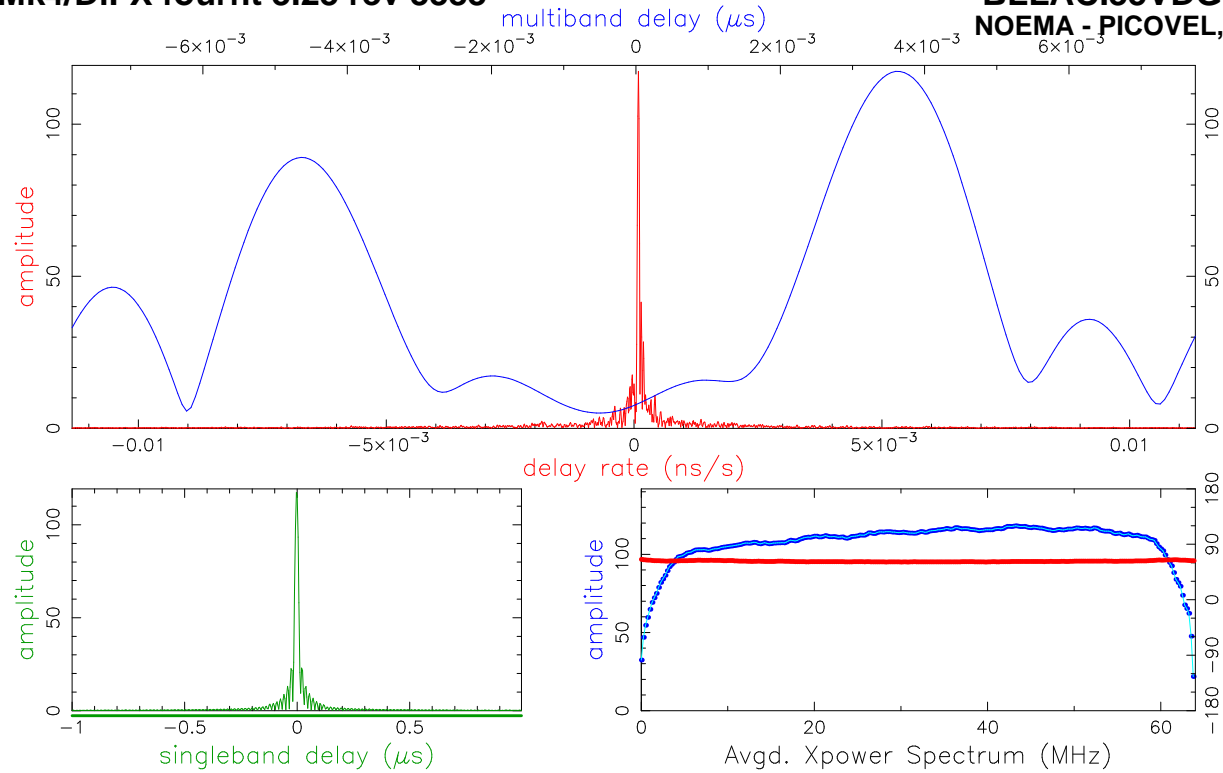


Fringe quality 0  
SNR 5.7  
Int time 299.970  
Amp 0.122  
Phase 105.9  
PFD 9.0e-01  
Delays (us)  
SBD -0.642576  
MBD -0.000658  
Fringe rate (Hz)  
-0.151348  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. t241a  
Exper # 1234  
Yr:day 2024:079  
Start 092000.00  
Stop 092500.03  
FRT 092446.00  
Corr/FF/build  
2024:080:073750  
2024:080:073805  
2023:348:201045  
RA & Dec (J2000)  
22h02m43.291370s  
+42°16'39.979897"

Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec

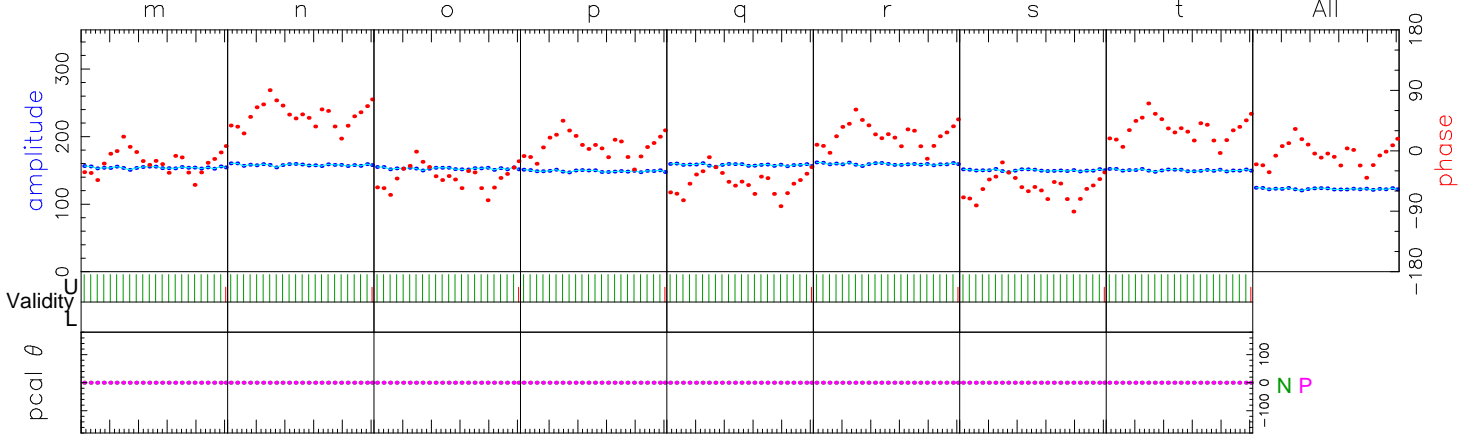


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All	
	154.8	91.5	78.4	89.0	121.1	121.1	90.0	127.3	Phase	105.9	
	0.1	0.2	0.1	0.1	0.1	0.2	0.1	0.0	Ampl.	0.1	
	58.1	59.3	365.4	148.5	35.8	91.5	317.1	318.0	Sbd box	92.5	
U/L	586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0	APs used		
N	0	0	0	0	0	0	0	0	PC freqs		
P	0	0	0	0	0	0	0	0	PC freqs		
N:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase		
N:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Mani PC		
N	1000	1000	1000	1000	1000	1000	1000	1000	PC amp		
P	1000	1000	1000	1000	1000	1000	1000	1000			
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids		
P	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Tracks		
									Tracks		
Group delay (usec) (SBD)	4.59978905025E+02		Apriori delay (usec)		4.60620187902E+02		Resid mbdelay (usec)		-6.57877E-04	+/- 1.9E-04	
Sband delay (usec)	4.59977612402E+02		Apriori clock (usec)		-1.2531000E+01		Resid sbdelay (usec)		-6.42576E-01	+/- 1.5E-03	
Phase delay (usec)	4.60620191315E+02		Apriori clockrate (us/s)		-1.3935503E-08		Resid phdelay (usec)		3.41378E-06	+/- 6.4E-07	
Delay rate (us/s)	-1.56743534145E-01		Apriori rate (us/s)		-1.56741777150E-01		Resid rate (us/s)		-1.75700E-06	+/- 3.7E-09	
Total phase (deg)	100.8		Apriori accel (us/s/s)		5.08171374322E-06		Resid phase (deg)		105.9	+/- 20.0	
	RMS	Theor.	Amplitude	0.122 +/- 0.021		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
ph/seg (deg)	62.1	47.9	Search (2048X32)	0.118		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)		-1.000 1.000	
amp/seg (%)	71.7	83.5	Interp.	0.000		Bits/sample: 2x2		SampCntNorm: enabled		mb window (us)	-0.008 0.008
ph/frq (deg)	28.3	28.2	Inc. seg. avg.	0.118		Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us		dr window (ns/s)		-0.011 0.011	
amp/frq (%)	42.8	49.3	Inc. frq. avg.	0.116		Data rate(Mb/s): 2048		nlags: 256 t_cohere infinite		ion window (TEC)	0.00 0.00
N: az 109.5 el 84.1 pa -63.3	P: az 62.4 el 76.0 pa -106.8		u, v (fr/asec) 1228.042 998.762						simultaneous interpolator		
Control file: cf_1234_gmva	Input file: /Exps/t241/FRINGE/1234/No0093/NP..35VDG4		Output file: /Exps/t241/FRINGE/1234/No0093/NP.W.5.35VDG4								

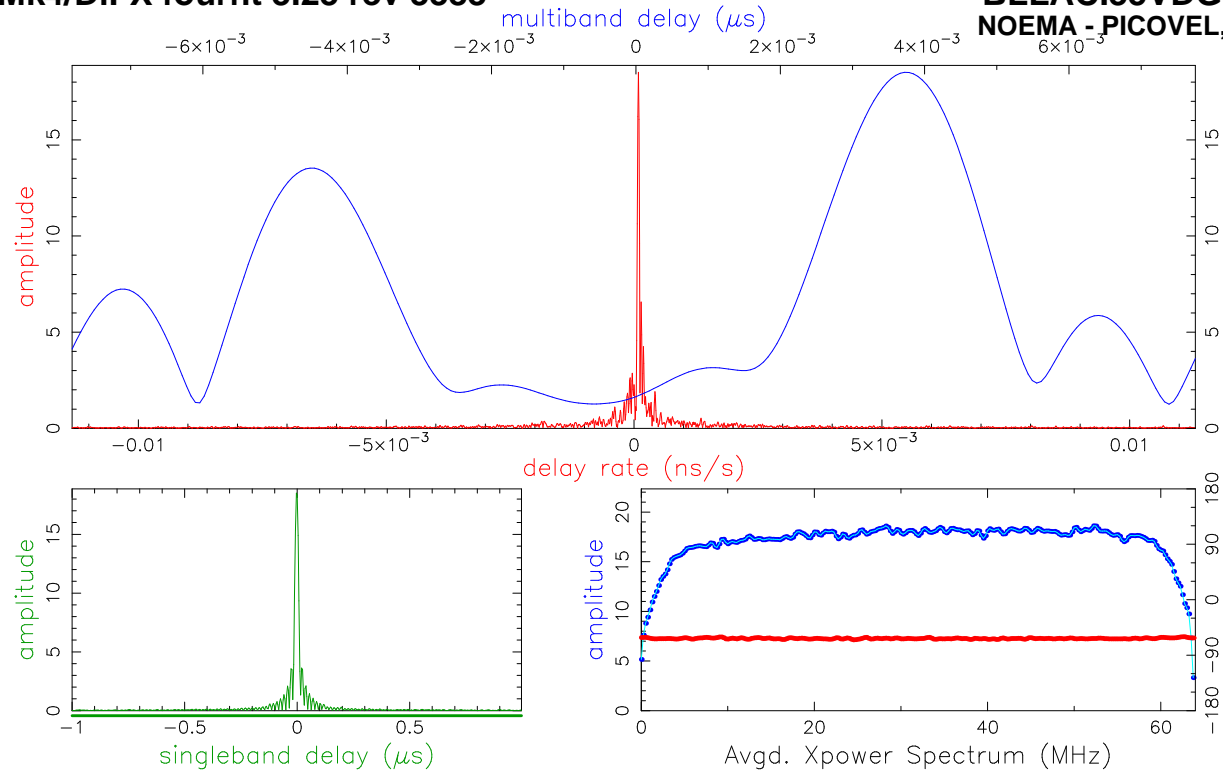


Fringe quality 5  
SNR 5652.8  
Int time 299.970  
Amp 119.355  
Phase -5.5  
PFD 0.0e+00  
Delays (us)  
SBD -0.002266  
MBD 0.003642  
Fringe rate (Hz) 0.007766  
Ion TEC 0.000  
Ref freq (MHz) 86140.0000  
AP (sec) 0.512  
Exp. t241a  
Yr:day 1234  
Start 2024:079  
Stop 2024:079  
FRT 092000.00  
2024:080:073750  
2024:080:073807  
2023:348:201045  
RA & Dec (J2000) 22h02m43.291370s +42°16'39.979897"

Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec

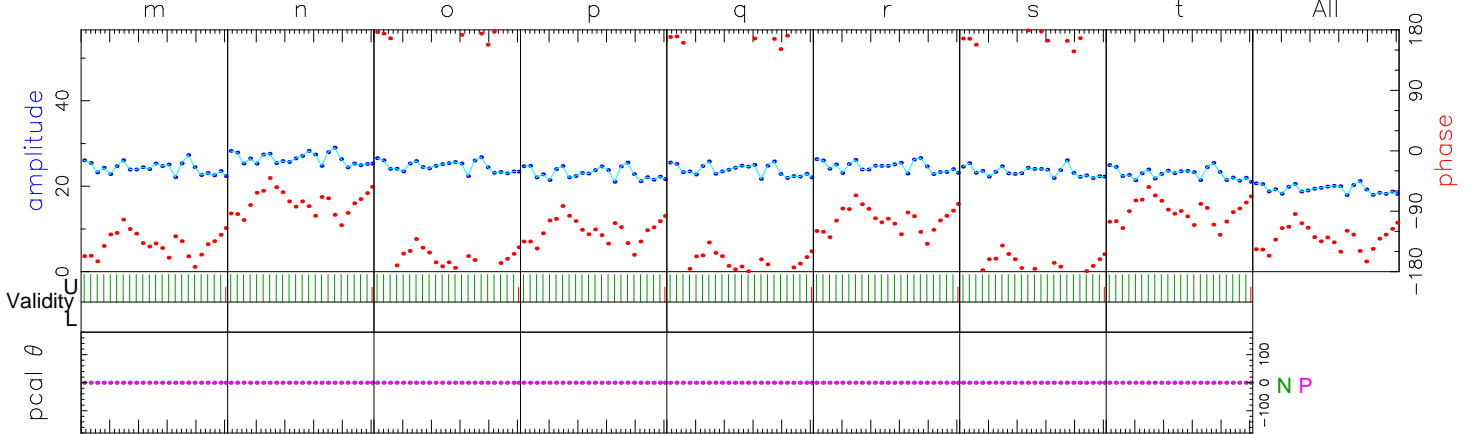


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
	-16.6	52.6	-39.1	7.2	-47.4	23.2	-55.3	32.1	Phase	-5.5
	147.6	151.4	146.3	142.7	151.5	152.7	143.7	143.8	Ampl.	147.5
	256.8	256.6	256.4	256.7	256.9	256.4	257.1	257.0	Sbd box	256.4
U/L	586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0	APs used	
N	0	0	0	0	0	0	0	0	PC freqs	
P	0	0	0	0	0	0	0	0	PC freqs	
N:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase	
N:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC	
N	1000	1000	1000	1000	1000	1000	1000	1000	PC amp	
P	1000	1000	1000	1000	1000	1000	1000	1000		
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Chan ids	
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks	
									Tracks	
Group delay (usec) (SBD)	4.60623829710E+02					4.60620187902E+02			Resid mbdelay (usec)	3.64181E-03 +/- 1.9E-07
Sband delay (usec)	4.60617921402E+02					-1.2531000E+01			Resid sbdelay (usec)	-2.26650E-03 +/- 1.5E-06
Phase delay (usec)	4.60620187726E+02					-1.3935503E-08			Resid phdelay (usec)	-1.75886E-07 +/- 6.5E-10
Delay rate (us/s)	-1.56741686990E-01					-1.56741777150E-01			Resid rate (us/s)	9.01597E-08 +/- 3.8E-12
Total phase (deg)		349.5				5.08171374322E-06			Resid phase (deg)	-5.5 +/- 0.0
	RMS	Theor.	Amplitude	119.355 +/- 0.021					Pcal mode: MANUAL, MANUAL	PC period (AP's) 5, 5
ph/seg (deg)	16.9	0.0	Search (2048X32)	115.230					Pcal rate: 0.000E+00, 0.000E+00 (us/s)	sb window (us) -1.000 1.000
amp/seg (%)	2.9	0.1	Interp.	0.000					Bits/sample: 2x2	mb window (us) -0.008 0.008
ph/frq (deg)	43.3	0.0	Inc. seg. avg.	122.634					SampCntNorm: enabled	dr window (ns/s) -0.011 0.011
amp/frq (%)	23.8	0.1	Inc. frq. avg.	147.458					Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us	ion window (TEC) 0.00 0.00
N: az 109.5 el 84.1 pa -63.3			P: az 62.4 el 76.0 pa -106.8			u, v (fr/asec) 1228.042 998.762			Data rate(Mb/s): 2048	nlags: 256 t_cohere infinite
Control file: cf_1234_gmva			Input file: /Exps/t241/FRINGE/1234/No0093/NP..35VDG4			Output file: /Exps/t241/FRINGE/1234/No0093/NP.W.6.35VDG4				simultaneous interpolator

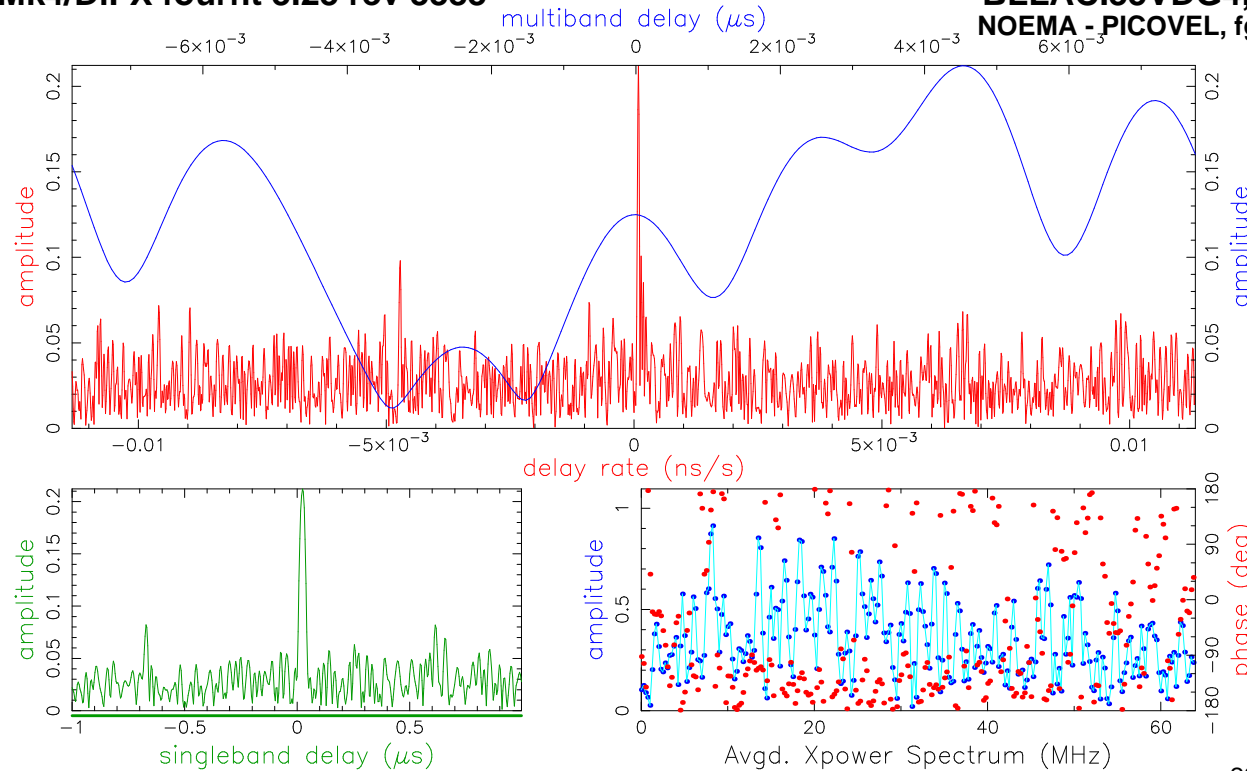


Fringe quality 5  
 SNR 893.7  
 Int time 299.970  
 Amp 18.870  
 Phase -130.5  
 PFD 0.0e+00  
 Delays (us)  
 SBD -0.002135  
 MBD 0.003748  
 Fringe rate (Hz) 0.007840  
 Ion TEC 0.000  
 Ref freq (MHz) 86140.0000  
 AP (sec) 0.512  
 Exp. t241a  
 Exper # 1234  
 Yr:day 2024:079  
 Start 092000.00  
 Stop 092500.03  
 FRT 092446.00  
 Corr/FF/build  
 2024:080:073750  
 2024:080:073810  
 2023:348:201045  
 RA & Dec (J2000)  
 22h02m43.291370s  
 +42°16'39.979897"

Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec

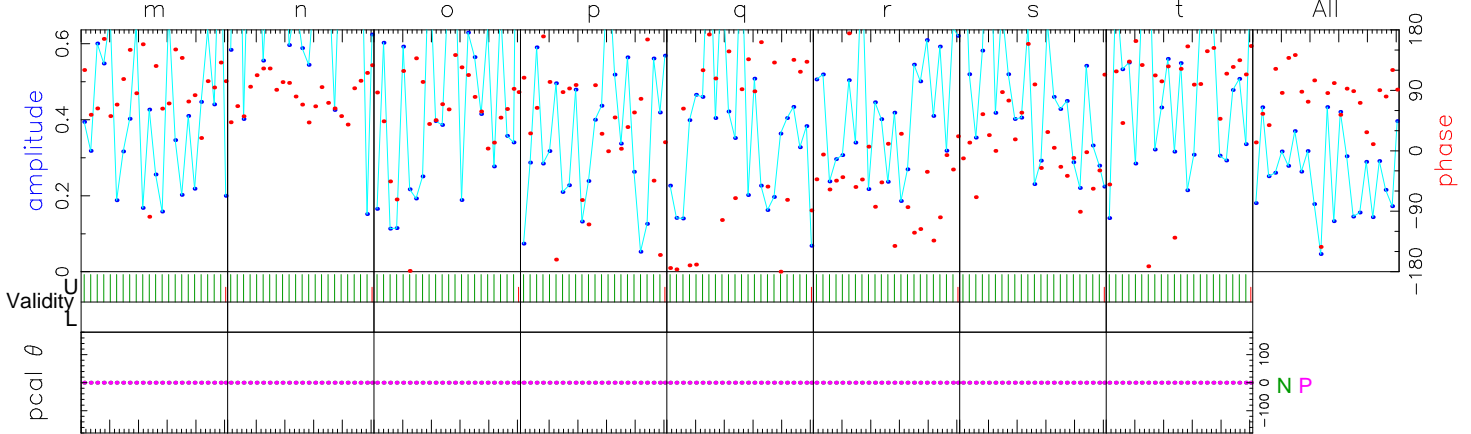


	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All	
	-139.3	-77.5	-167.7	-119.3	-173.5	-102.9	-177.2	-90.4	Phase	-130.5	
	23.2	25.3	23.5	22.0	22.7	23.5	22.4	21.9	Ampl.	23.1	
	256.6	256.9	256.4	256.7	257.0	256.5	257.1	256.9	Sbd box	256.5	
U/L	586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0	APs used		
N	0	0	0	0	0	0	0	0	PC freqs		
P	0	0	0	0	0	0	0	0	PC freqs		
N:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	PC phase		
N:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0	Manl PC		
N	1000	1000	1000	1000	1000	1000	1000	1000	PC amp		
P	1000	1000	1000	1000	1000	1000	1000	1000			
N	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL	Chan ids		
P	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR	Tracks		
									Tracks		
Group delay (usec) (SBD)	4.60623935991E+02		Apriori delay (usec)		4.60620187902E+02		Resid mbdelay (usec)		3.74809E-03	+/- 1.2E-06	
Sband delay (usec)	4.60618052902E+02		Apriori clock (usec)		-1.2531000E+01		Resid sbdelay (usec)		-2.13500E-03	+/- 9.6E-06	
Phase delay (usec)	4.60620183693E+02		Apriori clockrate (us/s)		-1.3935503E-08		Resid phdelay (usec)		-4.20870E-06	+/- 4.1E-09	
Delay rate (us/s)	-1.56741686133E-01		Apriori rate (us/s)		-1.56741777150E-01		Resid rate (us/s)		9.10171E-08	+/- 2.4E-11	
Total phase (deg)	224.4		Apriori accel (us/s/s)		5.08171374322E-06		Resid phase (deg)		-130.5	+/- 0.1	
	RMS	Theor.	Amplitude	18.870 +/- 0.021		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5			
ph/seg (deg)	17.3	0.3	Search (2048X32)	18.084		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		sb window (us)		-1.000 1.000	
amp/seg (%)	5.6	0.5	Interp.	0.000		Bits/sample: 2x2		SampCntNorm: enabled		mb window (us)	-0.008 0.008
ph/frq (deg)	42.4	0.2	Inc. seg. avg.	19.384		Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us		dr window (ns/s)		-0.011 0.011	
amp/frq (%)	22.9	0.3	Inc. frq. avg.	23.072		Data rate(Mb/s): 2048		nlags: 256 t_cohere infinite		ion window (TEC)	0.00 0.00
N: az 109.5 el 84.1 pa -63.3	P: az 62.4 el 76.0 pa -106.8		u,v (fr/asec) 1228.042 998.762						simultaneous interpolator		
Control file: cf_1234_gmva	Input file: /Exps/t241/FRINGE/1234/No0093/NP..35VDG4		Output file: /Exps/t241/FRINGE/1234/No0093/NP.W.7.35VDG4								



Fringe quality 9  
SNR 10.1  
Int time 299.970  
Amp 0.212  
Phase 82.0  
PFD 3.9e-15  
Delays (us)  
SBD 0.024345  
MBD 0.004559  
Fringe rate (Hz)  
0.007859  
Ion TEC 0.000  
Ref freq (MHz)  
86140.0000  
AP (sec) 0.512  
Exp. t241a  
Exper # 1234  
Yr:day 2024:079  
Start 092000.00  
Stop 092500.03  
FRT 092446.00  
Corr/FF/build  
2024:080:073750  
2024:080:073813  
2023:348:201045  
RA & Dec (J2000)  
22h02m43.291370s  
+42°16'39.979897"

Amp. and Phase vs. time for each freq., 23 segs, 26 APs / seg (13.31 sec / seg.), time ticks 10 sec



	86012.00	86076.00	86140.00	86204.00	86268.00	86332.00	86396.00	86460.00	Freq (MHz)	All
U/L	586/0	586/0	586/0	586/0	586/0	586/0	586/0	586/0		
N	0	0	0	0	0	0	0	0		
P	0	0	0	0	0	0	0	0		
N:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
N:P	0:0	0:0	0:0	0:0	0:0	0:0	0:0	0:0		
N	1000	1000	1000	1000	1000	1000	1000	1000		
P	1000	1000	1000	1000	1000	1000	1000	1000		
N	W00UR	W01UR	W02UR	W03UR	W04UR	W05UR	W06UR	W07UR		
P	W00UL	W01UL	W02UL	W03UL	W04UL	W05UL	W06UL	W07UL		
Group delay (usec) (SBD)	4.60640372179E+02		Apriori delay (usec)		4.60620187902E+02		Resid mbdelay (usec)		4.55928E-03	+/- 1.1E-04
Sband delay (usec)	4.60644532902E+02		Apriori clock (usec)		-1.2531000E+01		Resid sbdelay (usec)		2.43450E-02	+/- 8.6E-04
Phase delay (usec)	4.60620190547E+02		Apriori clockrate (us/s)		-1.3935503E-08		Resid phdelay (usec)		2.64561E-06	+/- 3.7E-07
Delay rate (us/s)	-1.56741685917E-01		Apriori rate (us/s)		-1.56741777150E-01		Resid rate (us/s)		9.12325E-08	+/- 2.1E-09
Total phase (deg)			76.9		Apriori accel (us/s/s)		5.08171374322E-06		82.0	+/- 11.4
ph/seg (deg)	RMS 45.1	Theor. 27.3	Amplitude 0.212 +/- 0.021		Pcal mode: MANUAL, MANUAL		PC period (AP's) 5, 5		sb window (us)	-1.000 1.000
amp/seg (%)	53.2	47.7	Search (2048X32) 0.209		Pcal rate: 0.000E+00, 0.000E+00 (us/s)		SampCntNorm: enabled		mb window (us)	-0.008 0.008
ph/frq (deg)	74.3	16.1	Interp. 0.000		Data rate(MSamp/s): 128 MBpts 32 Amb 0.016 us		Data rate(Mb/s): 2048		dr window (ns/s)	-0.011 0.011
amp/frq (%)	93.5	28.1	Inc. seg. avg. 0.232		Data rate(Mb/s): 2048		nlags: 256 t_cohere infinite		ion window (TEC)	0.00 0.00
N: az 109.5 el 84.1 pa -63.3		P: az 62.4 el 76.0 pa -106.8		u, v (fr/asec) 1228.042 998.762						simultaneous interpolator
Control file: cf_1234_gmva		Input file: /Exps/t241/FRINGE/1234/No0093/NP..35VDG4		Output file: /Exps/t241/FRINGE/1234/No0093/NP.W.8.35VDG4						