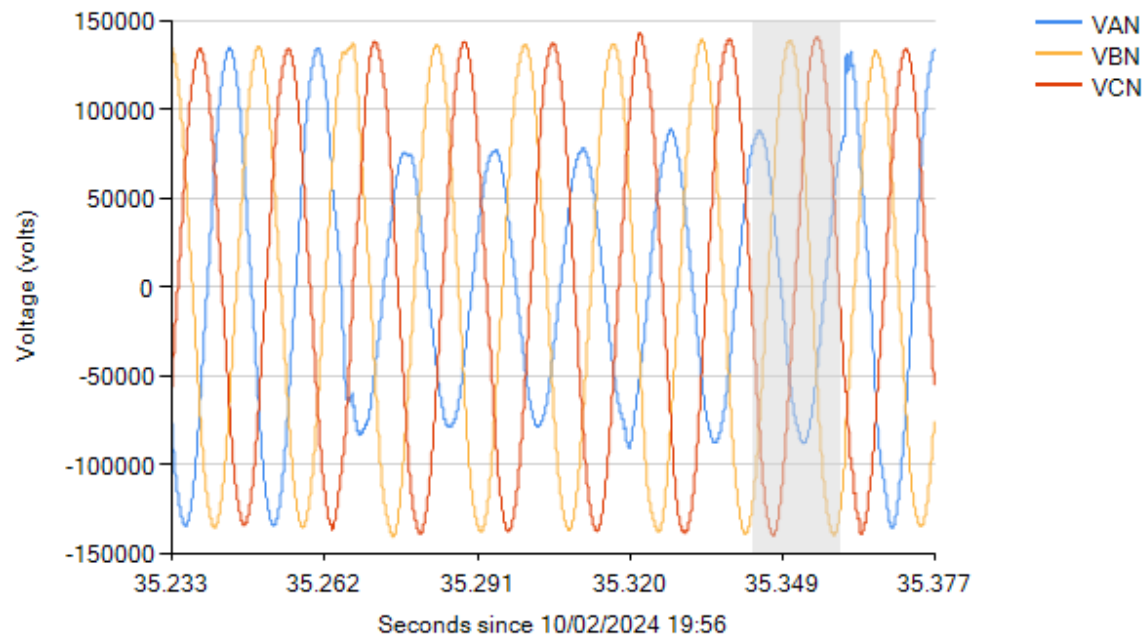


Fault 1 - 2023-05-23 19:56:35.2664062

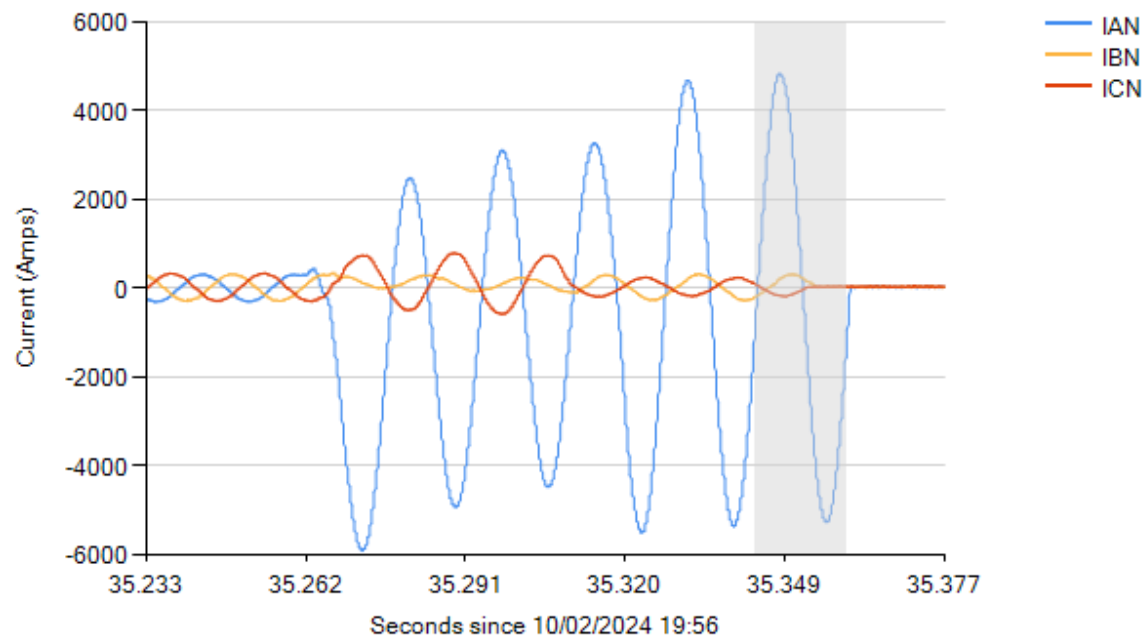
Station:	Substation 1 (Substation1Key)
DFR:	Meter 1 (APP)
File:	1170.dat
Breaker:	Breaker 1
Fault Type:	AN
Inception Time:	19:56:35.2664062
Fault Duration:	94.010 msec (5.64 cycles)
Fault Current:	3575.4 Amps (RMS)
Distance Method:	Reactance
Single-ended Distance:	13.283 miles

	Probability of Fault Cause
DFR:	Meter 1 (APP)
Tree:	Low (Rf = -0.84)
Lightning:	No lightning found
Insulation Flashover:	Low (62.25° from peak)
Arrester Failure:	Low (0.17)
Conductor Slap / Debris Midspan:	No (applies only to multi-phase faults)
Broken Conductor:	Low (0.99)

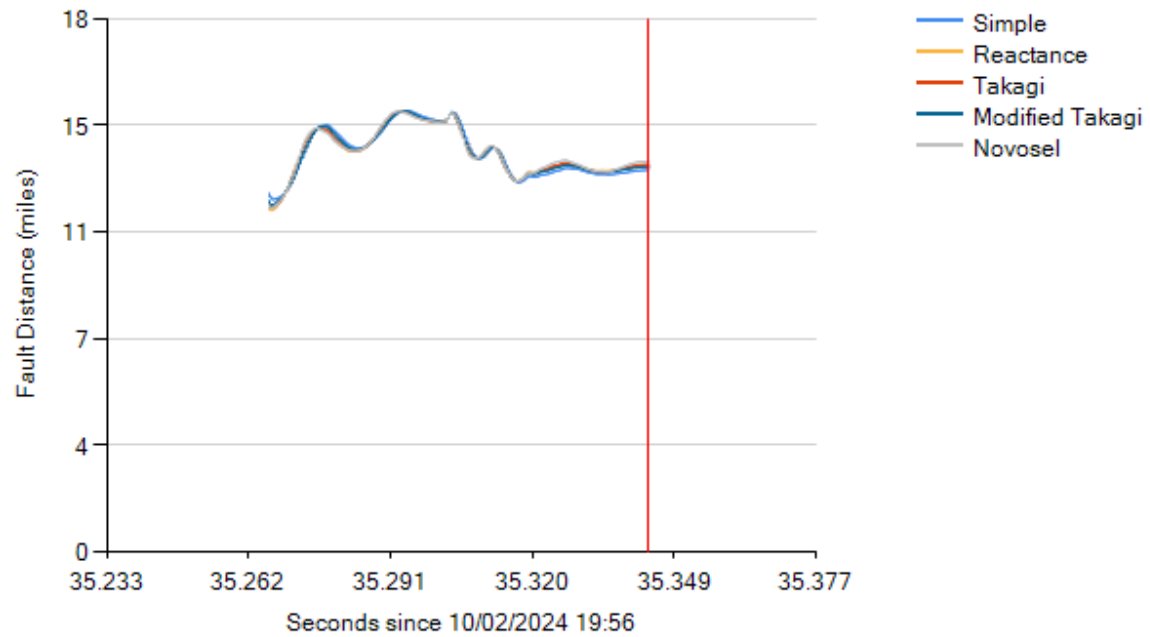
Meter 1 - Voltage



Meter 1 - Current



Meter 1 - Fault Distance



Fault 2 - 2023-05-23 19:56:37.3067708

Station:	Substation 1 (Substation1Key)
DFR:	Meter 1 (APP)
File:	1170.dat
Breaker:	Breaker 1
Fault Type:	AN
Inception Time:	19:56:37.3067708
Fault Duration:	52.148 msec (3.13 cycles)
Fault Current:	3826.0 Amps (RMS)
Distance Method:	Reactance
Single-ended Distance:	12.392 miles
Click for fault report:	11895424

DFR:

Tree:

Lightning:

Insulation Flashover:

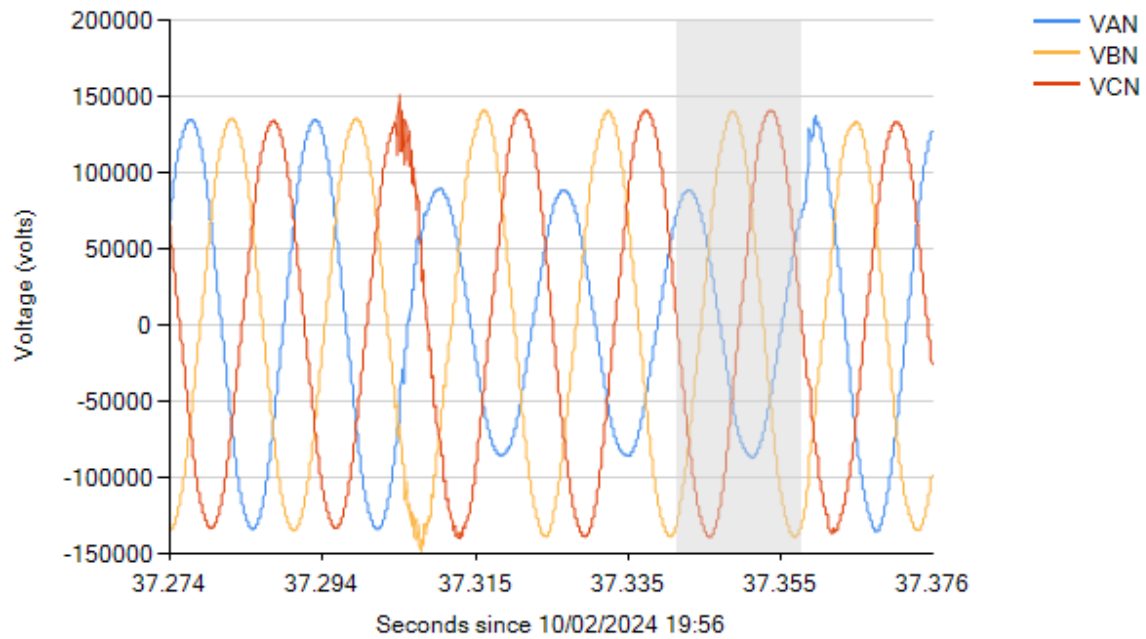
Arrester Failure:

Conductor Slap / Debris Midspan:

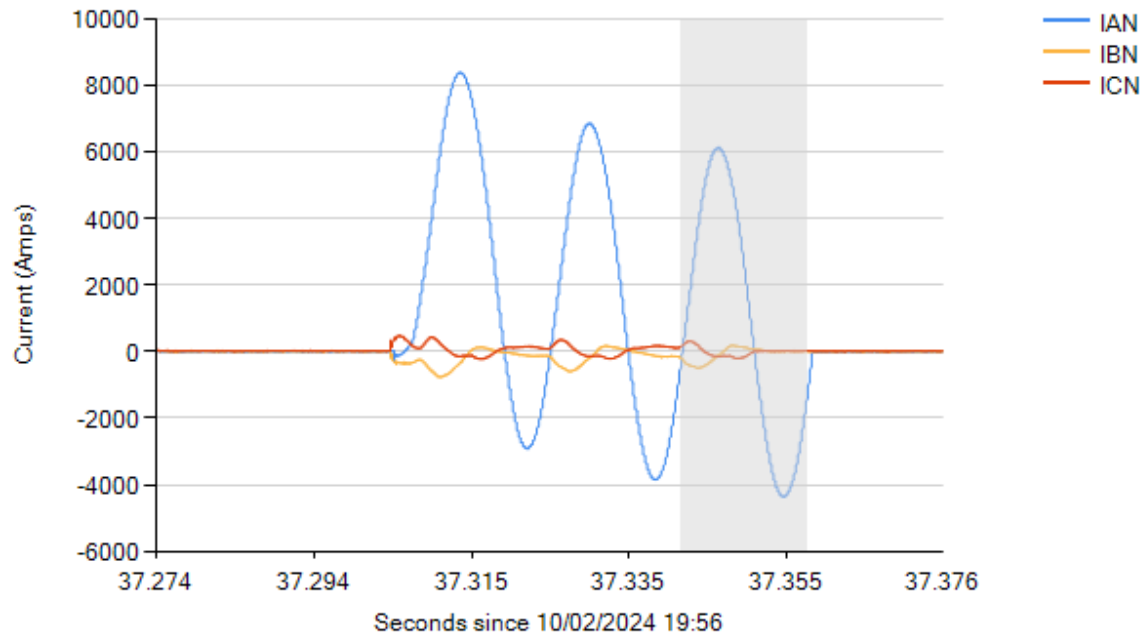
Broken Conductor:

Probability of Fault Cause
Meter 1 (APP)
Low ($R_f = -0.59$)
No lightning found
Low (66.44° from peak)
Undetermined
No (applies only to multi-phase faults)
Low (0.66)

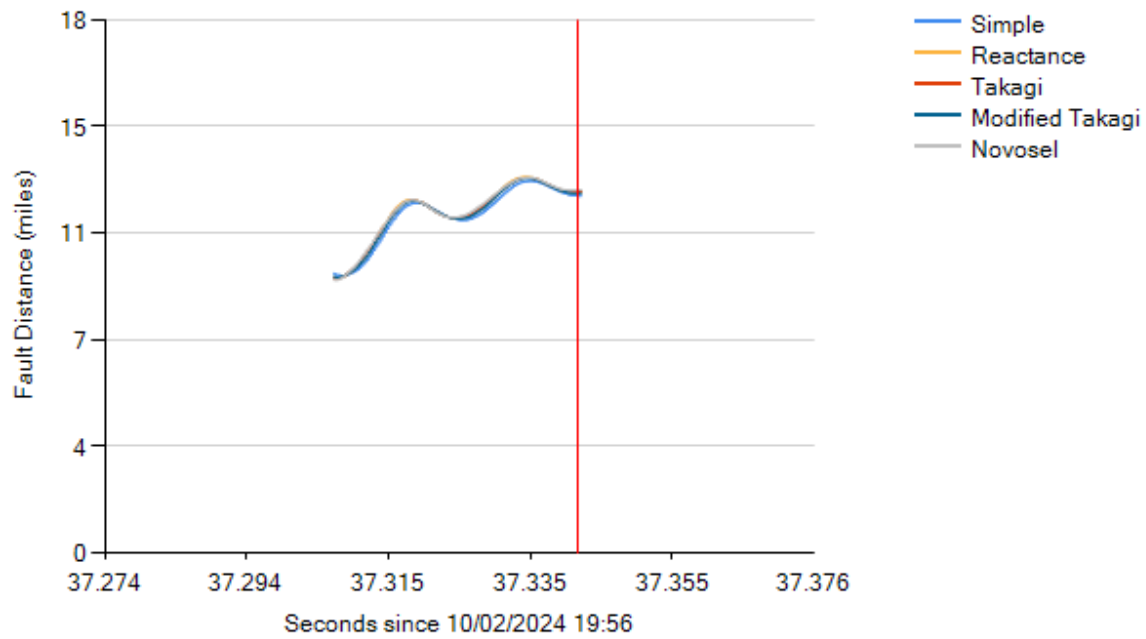
Meter 1 - Voltage



Meter 1 - Current



Meter 1 - Fault Distance



Line Parameters:	Value:	Per Mile:
Length (Mi)	18.35	1.0
Pos-Seq Imp Z1 (Ohm) (LLL,LLLG,LL,LLG)	12.5428 $\angle$ 79.6422° 2.2551+j12.3384	0.6835 $\angle$ 79.6422° 0.1229+j0.6835
Zero-Seq Imp Z0 (Ohm)	47.4936 $\angle$ 72.6627° 14.1529+j45.3358	2.5882 $\angle$ 72.6627° 0.7713+j2.4706
Loop Imp ZS (Ohm) (LG)	24.1525 $\angle$ 75.0738° 6.2211+j23.3375	1.3162 $\angle$ 75.0738° 0.339+j1.2718