

1 Q. Reference PUB-NLH-264, Attachment 4 and PUB-NLH-484: Please state whether the
2 occurrence of three phase faults at Bay d’Espoir under peak load conditions could
3 lead to instability both when 2 and 3 high inertia synchronous condensers are in
4 service at Soldiers Pond.

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6
7 A. The results of the dynamic stability studies from PUB-NLH-264 attachment 1,
8 *Maritime Link Preliminary Interconnection Study, July 2014* were completed using
9 the CDC4T PSS®E model for the Labrador Island Link (LIL) and an early ABB HVdc
10 Light model for the Maritime Link (ML). Since the report was finalized in 2014, NLH
11 has received detailed dynamic models for both the LIL and ML from both HVdc
12 vendors (GE Grid/ABB) which have control parameters tuned for optimal ac
13 performance. GE Grid has provided their PSS®E model for the Series 5 LCC control
14 system while ABB has provided an updated model of their Mach 2 VSC control
15 system.

16
17 For the purposes of answering this RFI, PSS®E base cases 1010 and 1011 were
18 studied which are detailed in Table 1. These cases were developed to study winter
19 peak load scenarios with the LIL operating at rated capacity with spinning reserve
20 on the Island Hydro fleet (1011) and sufficient spinning reserve held on the LIL
21 (1010). These cases were provided to GE Grid to complete system studies as
22 defined in the HVdc specifications. Under normal operation, it is expected that
23 spinning reserve for the Island Interconnected System will be shared with capacity
24 on the LIL and on Island Hydro units. The results of the operational studies will
25 determine the amount and split of spinning reserve required.

Table 1: PSS®E Base Cases Studied

Base Case	System Load	LIL Configuration	LIL Import (MW)	ML Export (MW) (NL to NS)	Island Generation	MFA Units Online
1010	Winter Peak	Bipole Reserve	700	158	Max	4
1011	Winter Peak	Bipole Max	900	158	Reserve	4

1 GE Grid provided the ac system response for the following contingencies:

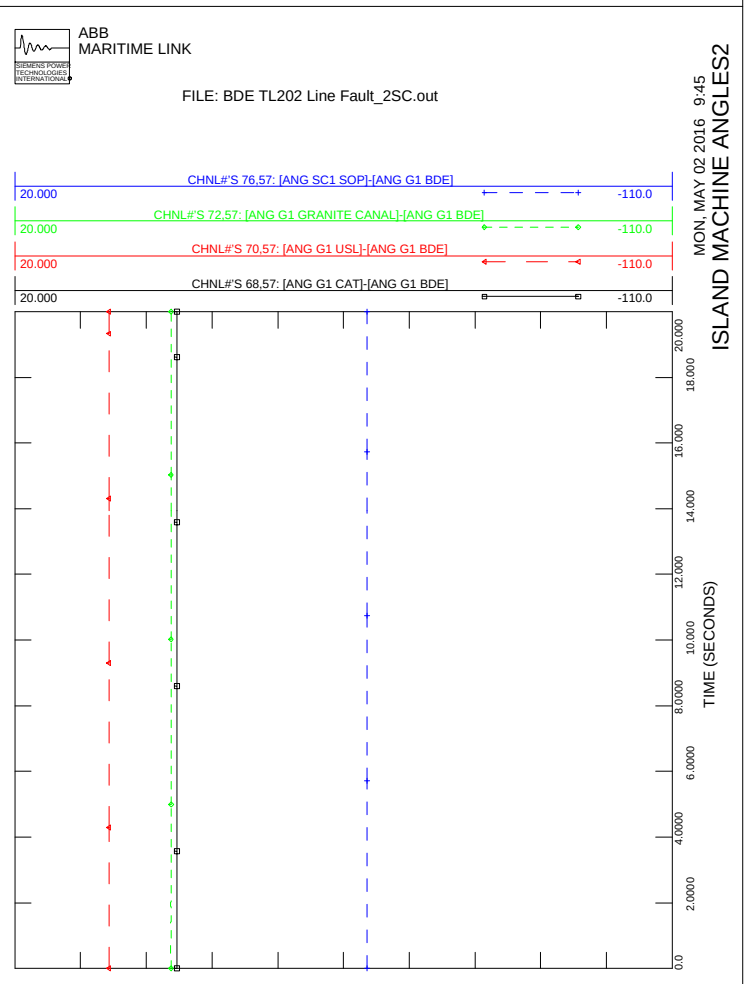
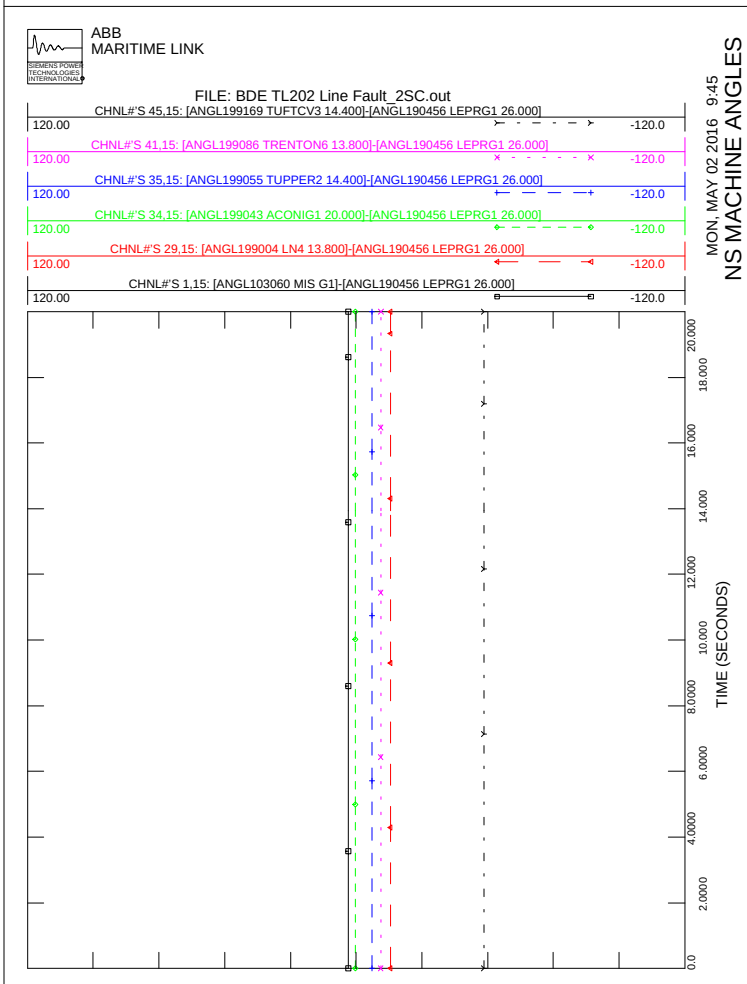
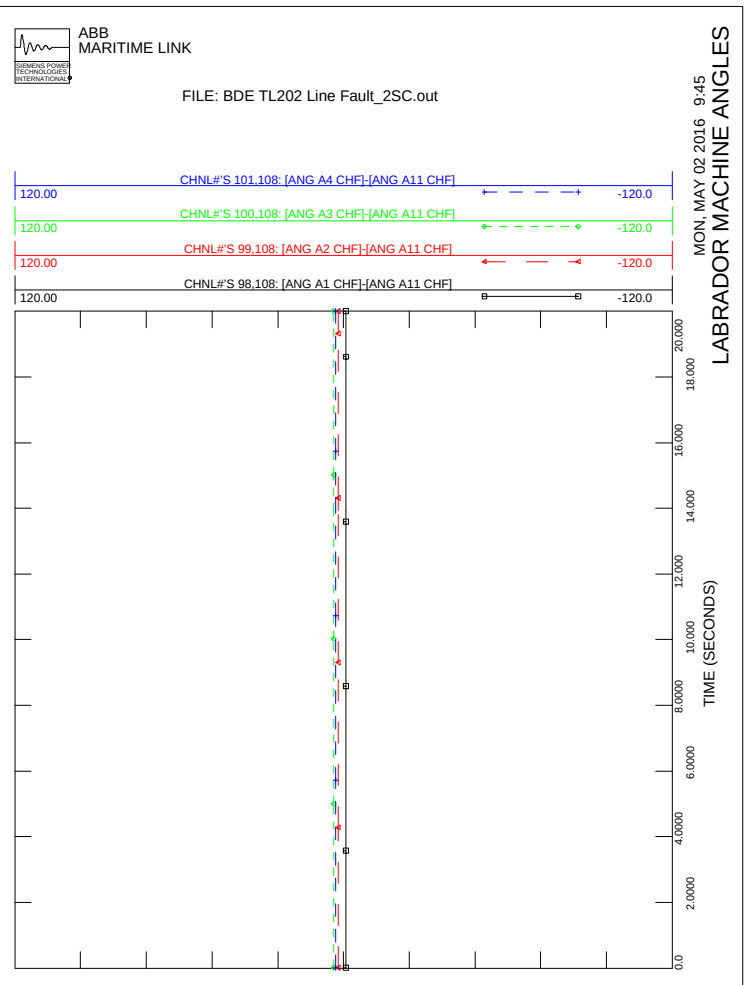
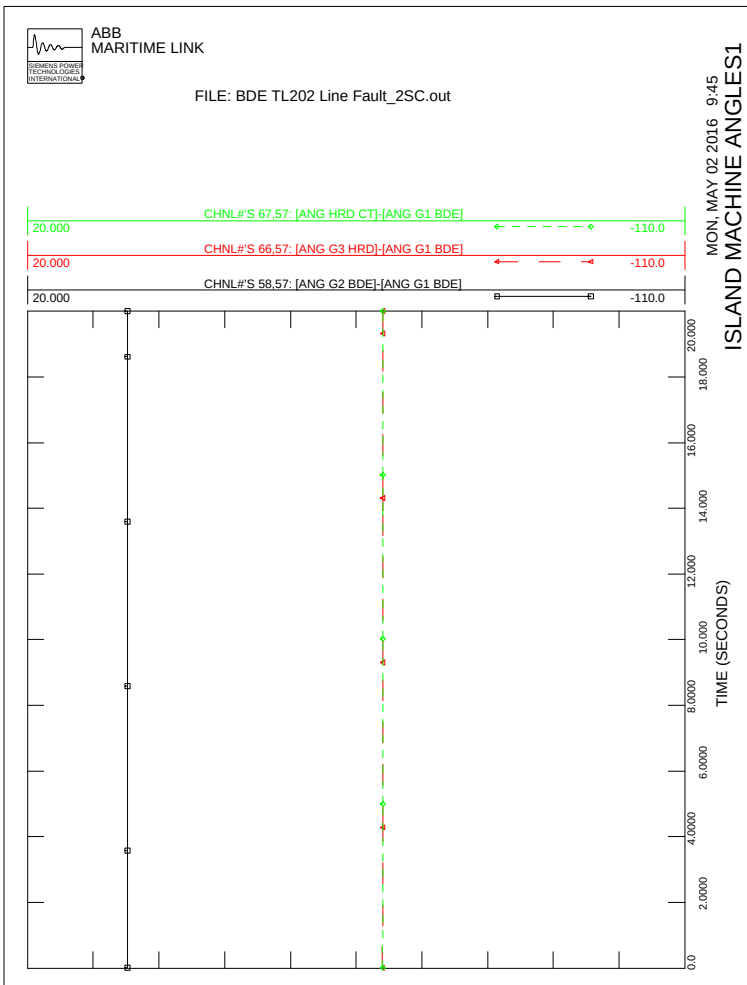
- 2 1. 3 Phase Fault at BDE Followed by Trip of TL202 or TL206 in 6 cycles.
- 3 2. 3 Phase Fault at BDE Followed by Trip of TL204 or TL231 in 6 cycles.
- 4 3. 3 Phase Fault at BDE Followed by Trip of TL234 in 6 cycles.
- 5 4. 3 Phase Fault at BDE Followed by Trip of BDE Generator G7.
- 6 5. Trip of BDE Generator G7.

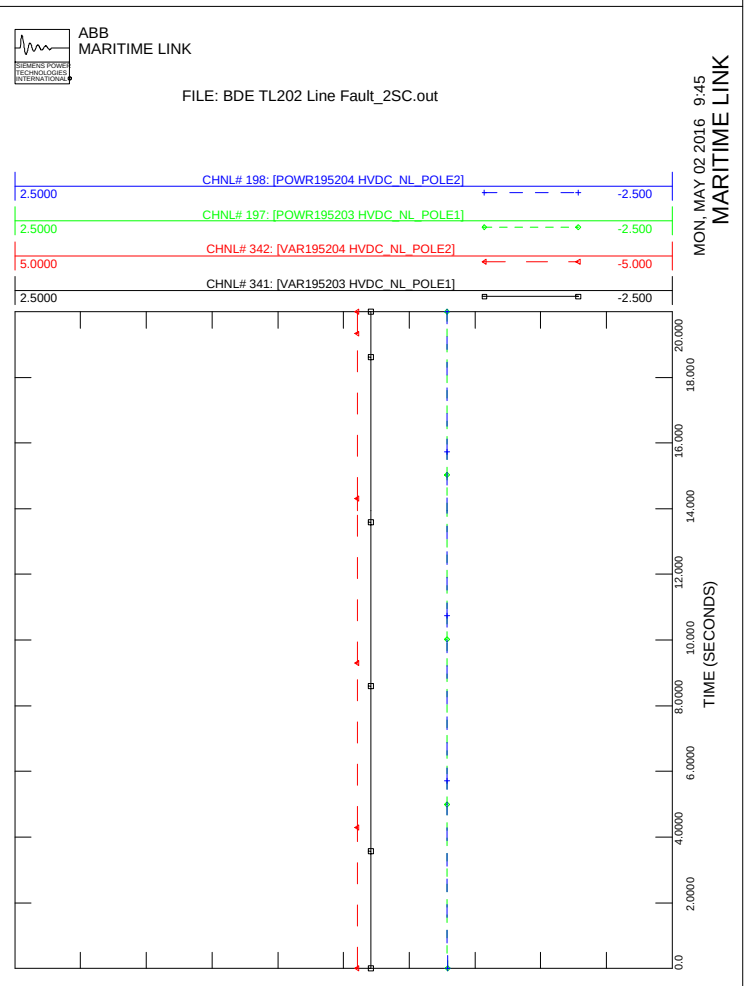
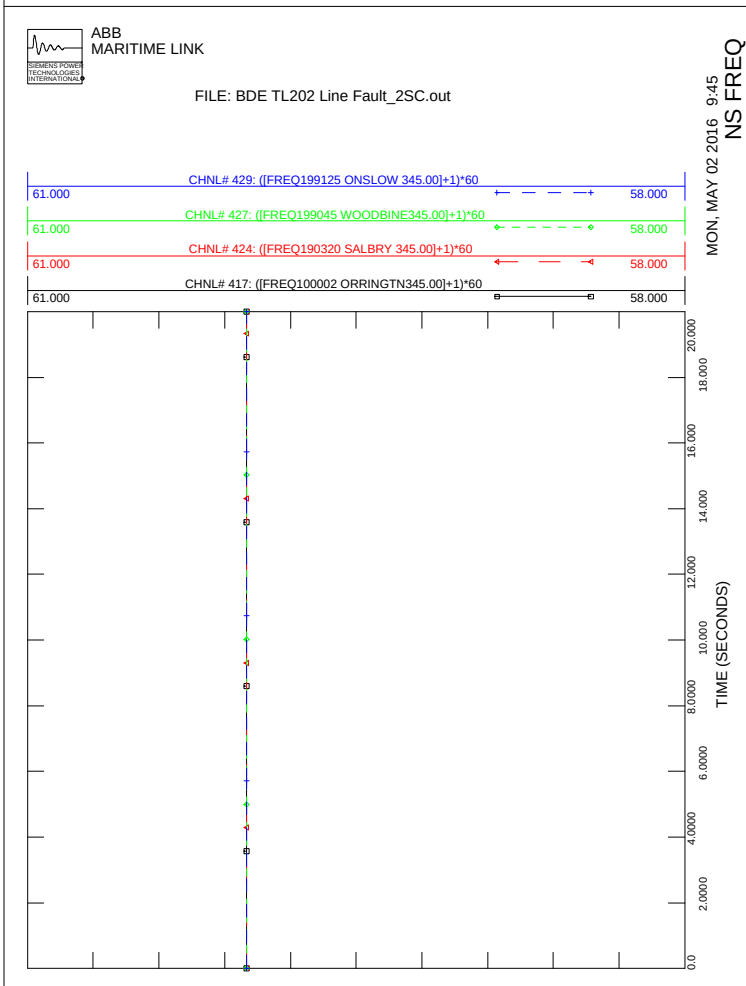
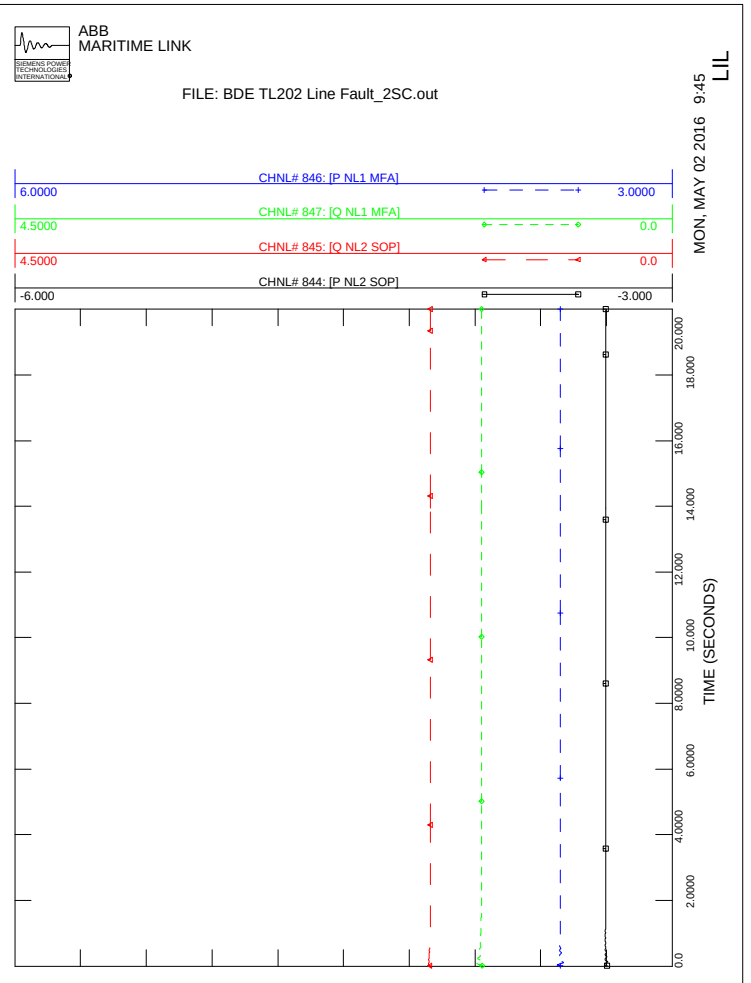
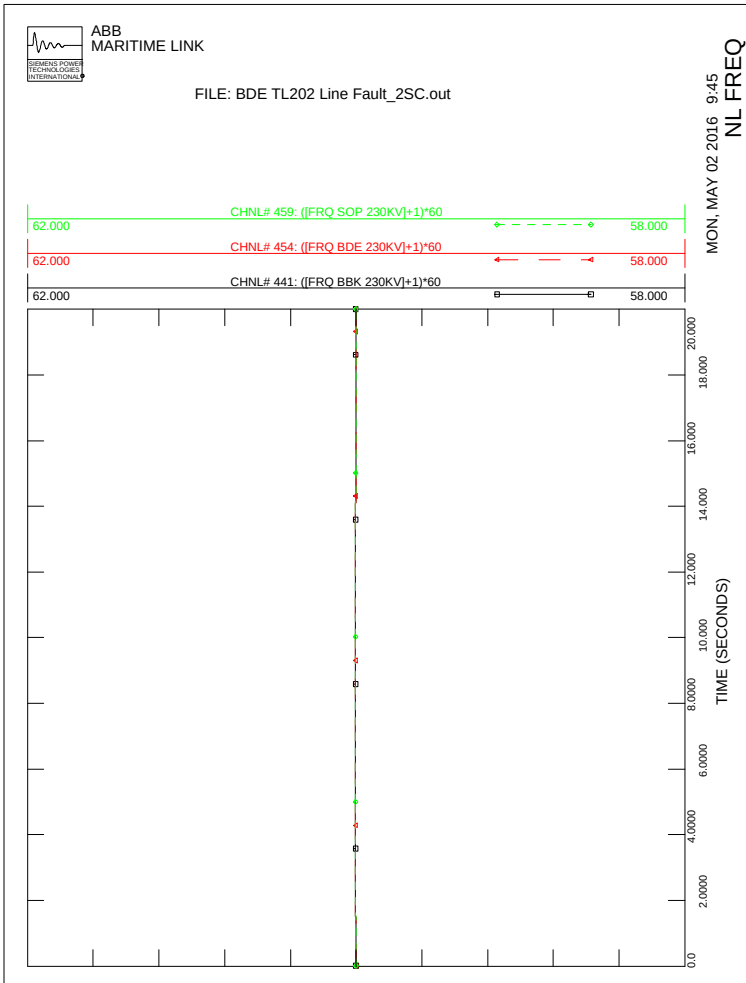
7 The resultant plots for machine rotor angles, electrical power (P/Q), system frequency and
8 bus voltages have been attached for both two and three high inertia synchronous
9 condensers online at Soldiers Pond Terminal Station.

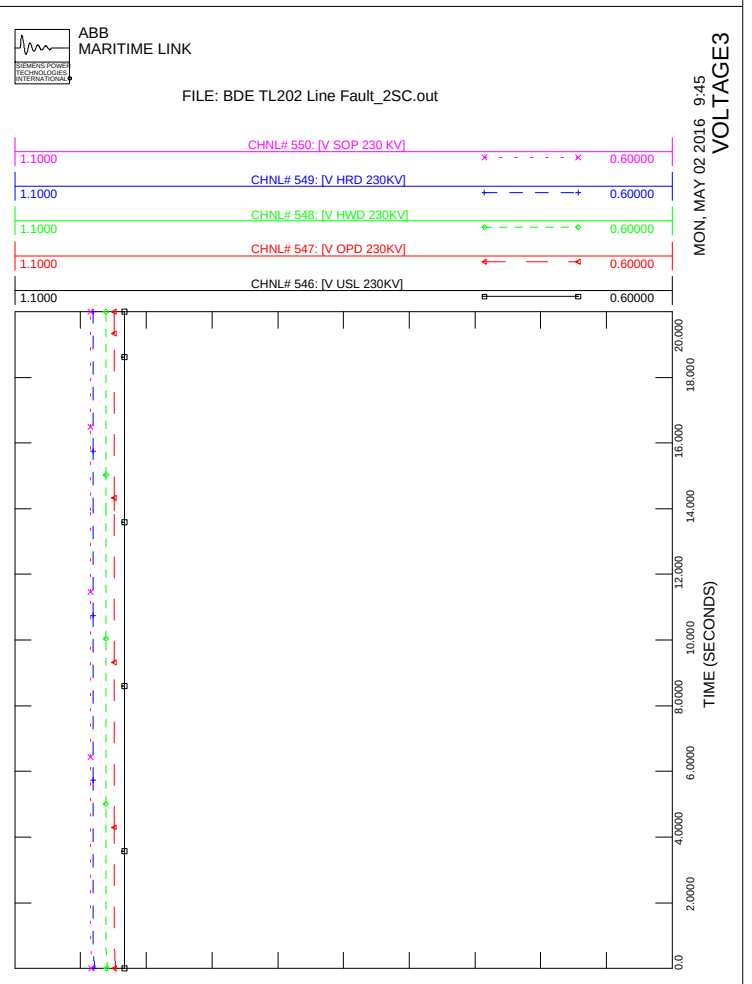
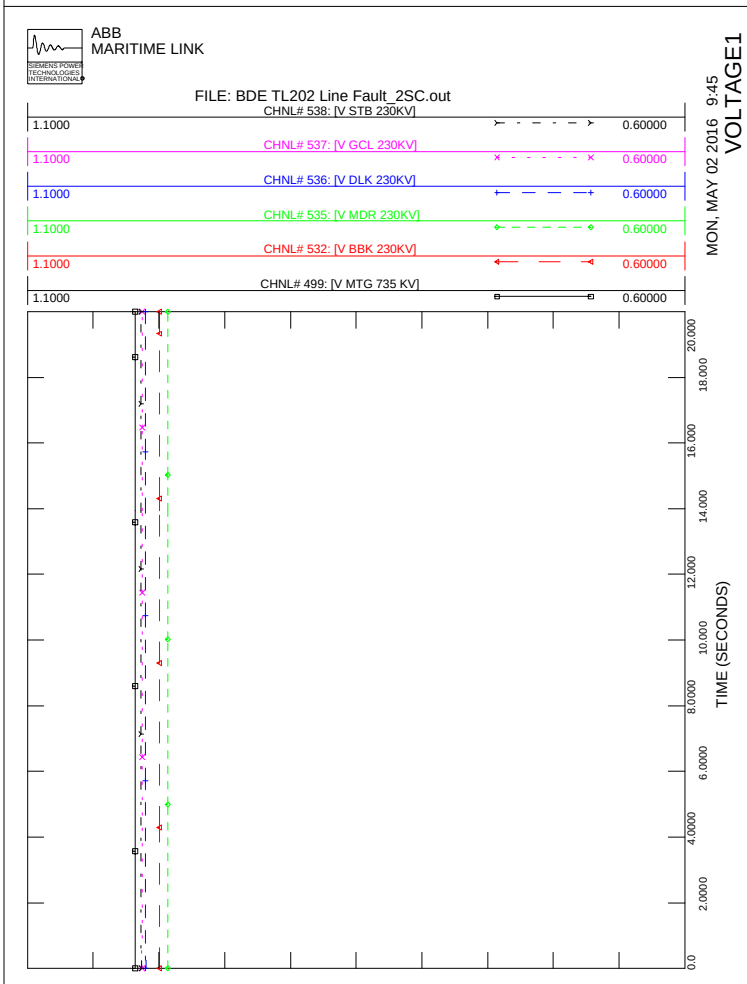
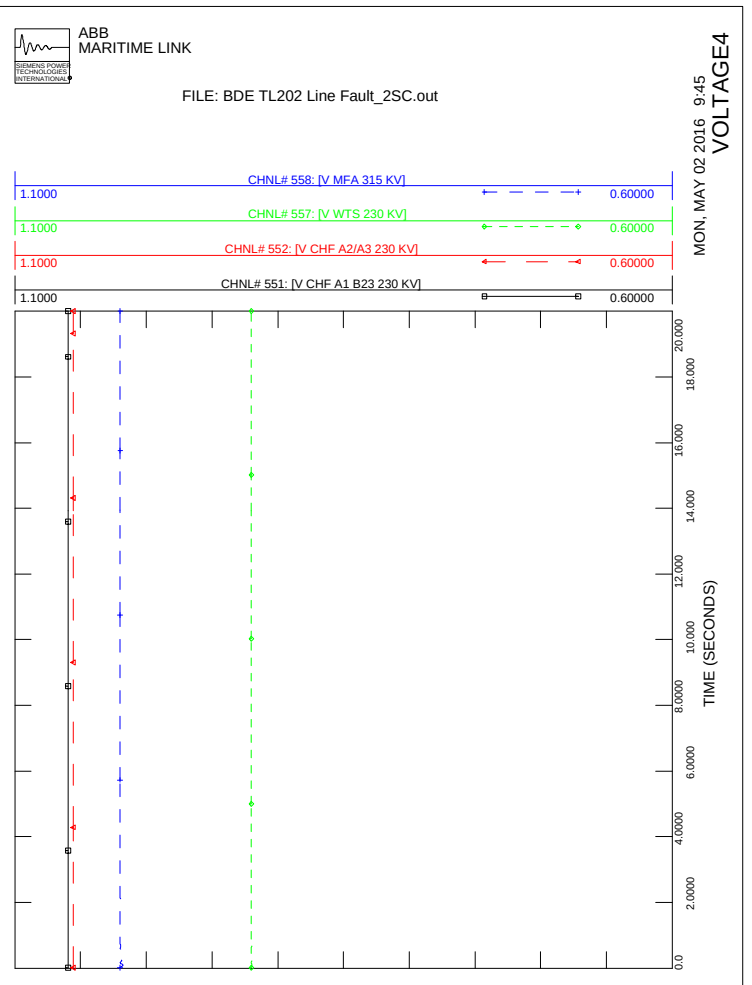
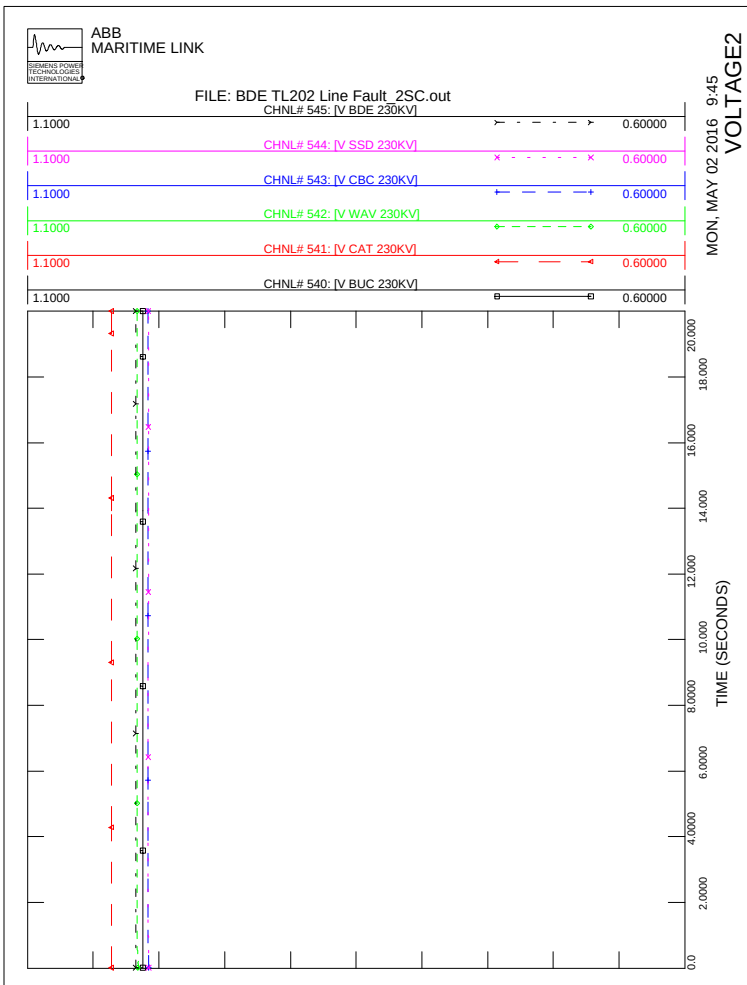
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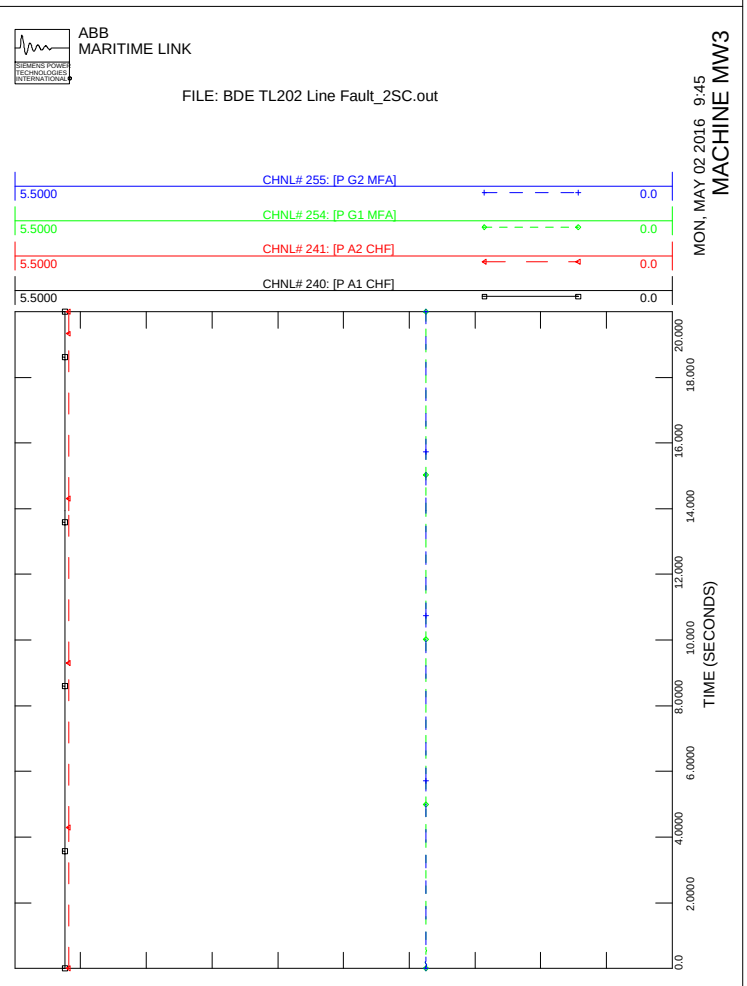
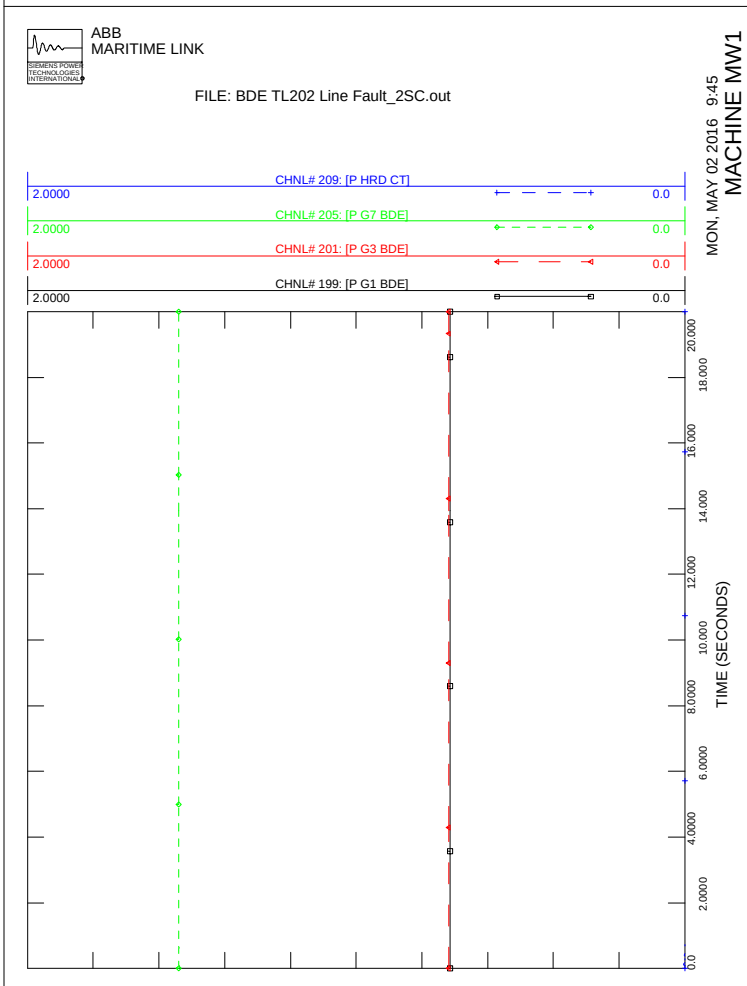
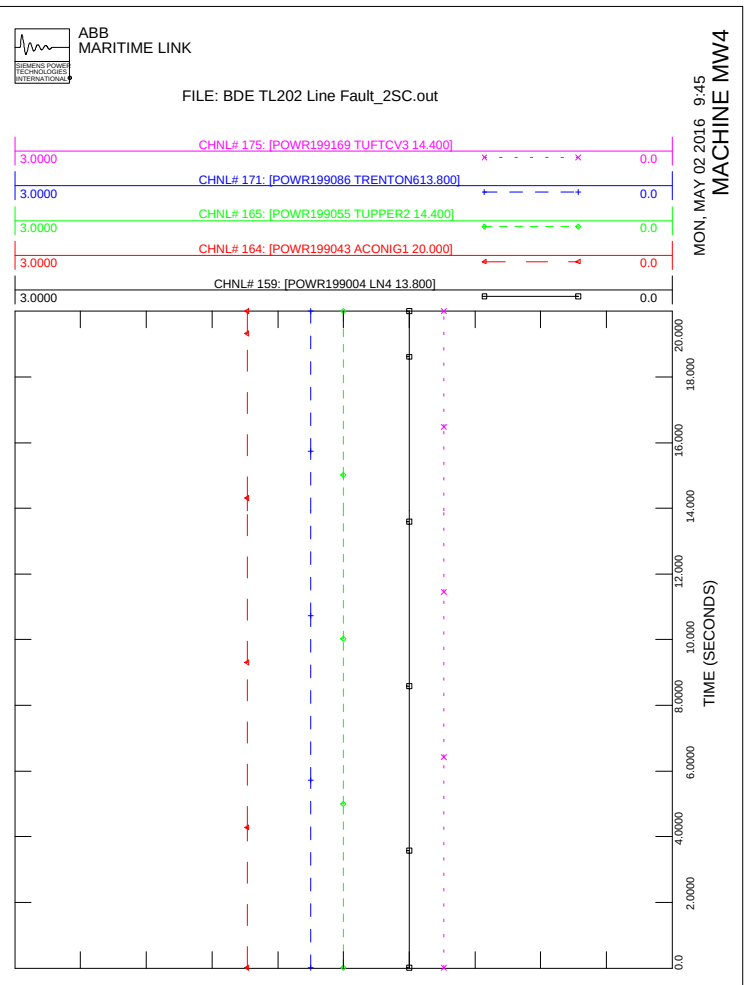
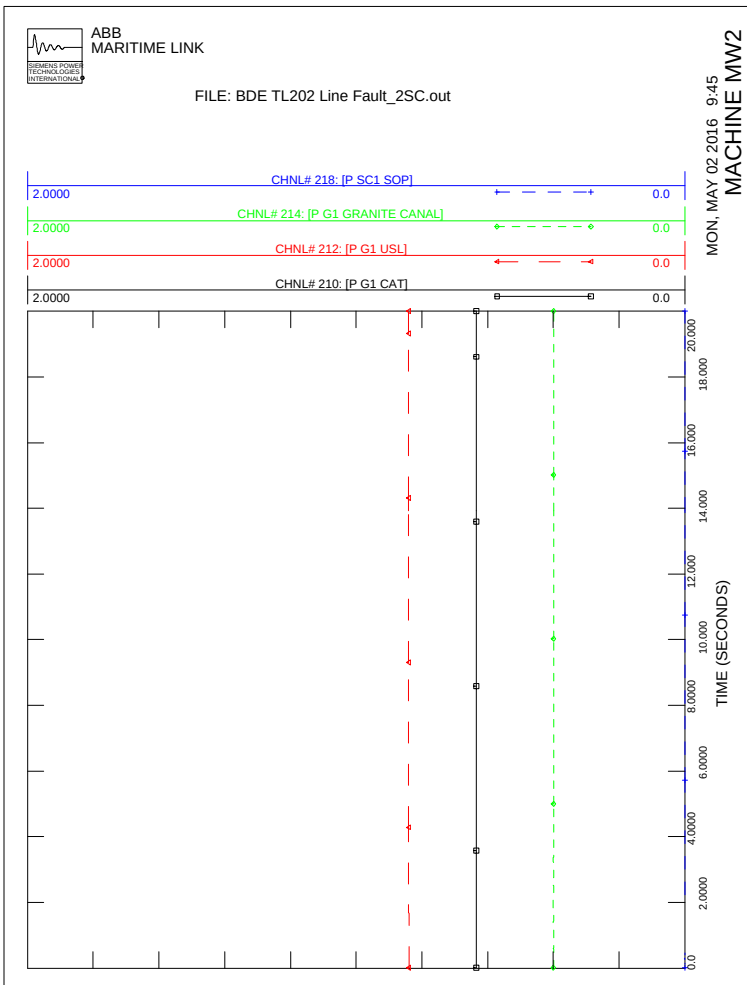
11 It is clear from the plots that there is no angular instability for three phase faults close in to
12 Bay d’Espoir on 230 kV transmission lines TL202/TL206, TL204/TL231, TL234 or BDE
13 generators. Bus voltages remain within transmission planning criteria and the Island
14 Interconnected System ac frequency remained within limits. The dramatic improvement in
15 performance is due to the use of vendor specific models with optimized control
16 parameters. The Maritime Link makes extensive use of its voltage control abilities by
17 adjusting the MVAR output to maintain acceptable bus voltages west of BDE following
18 system disturbances.

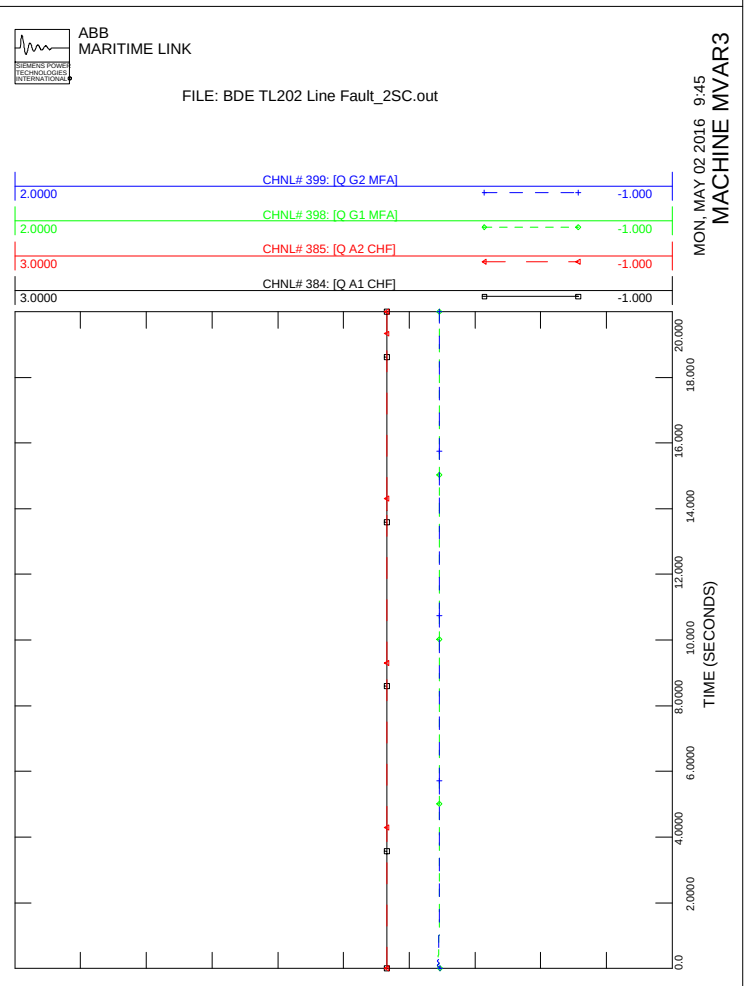
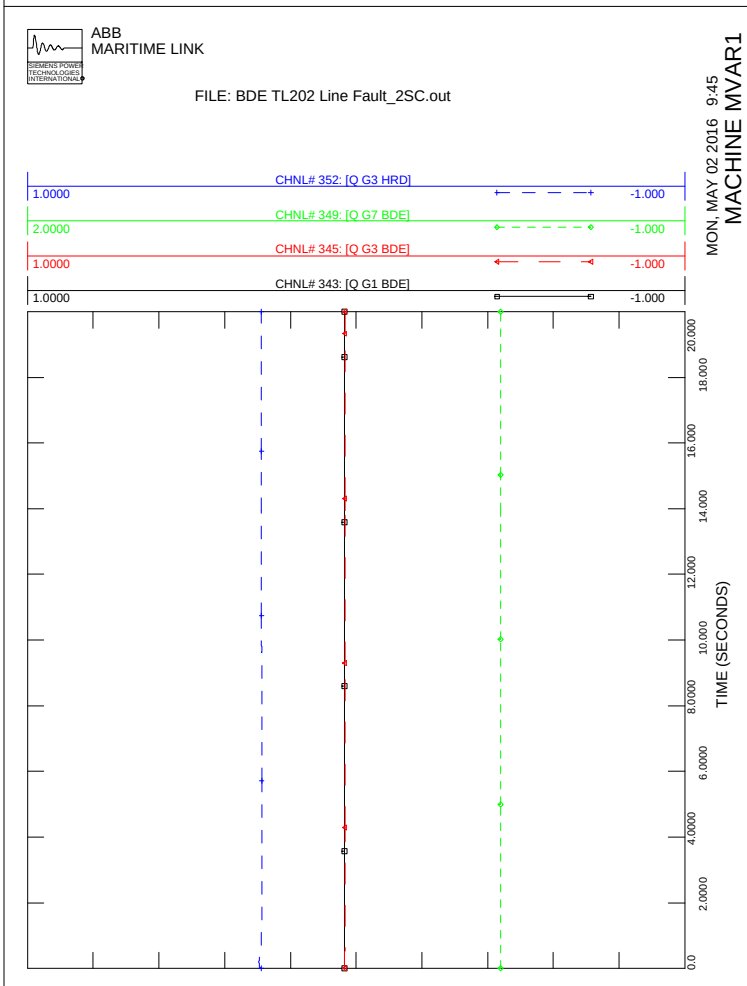
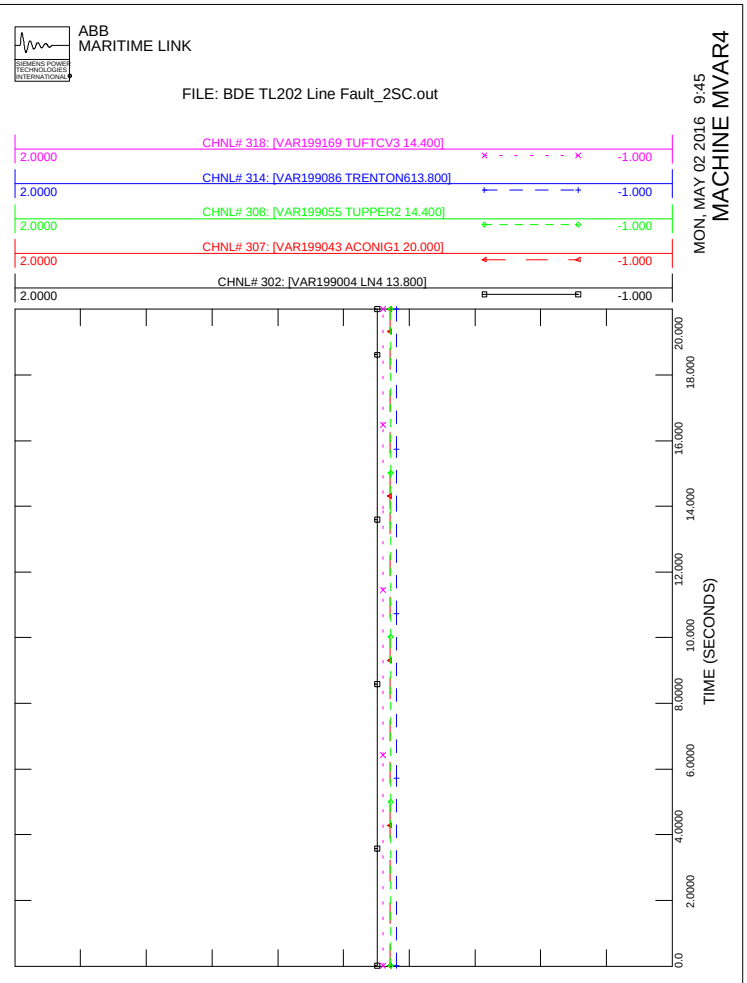
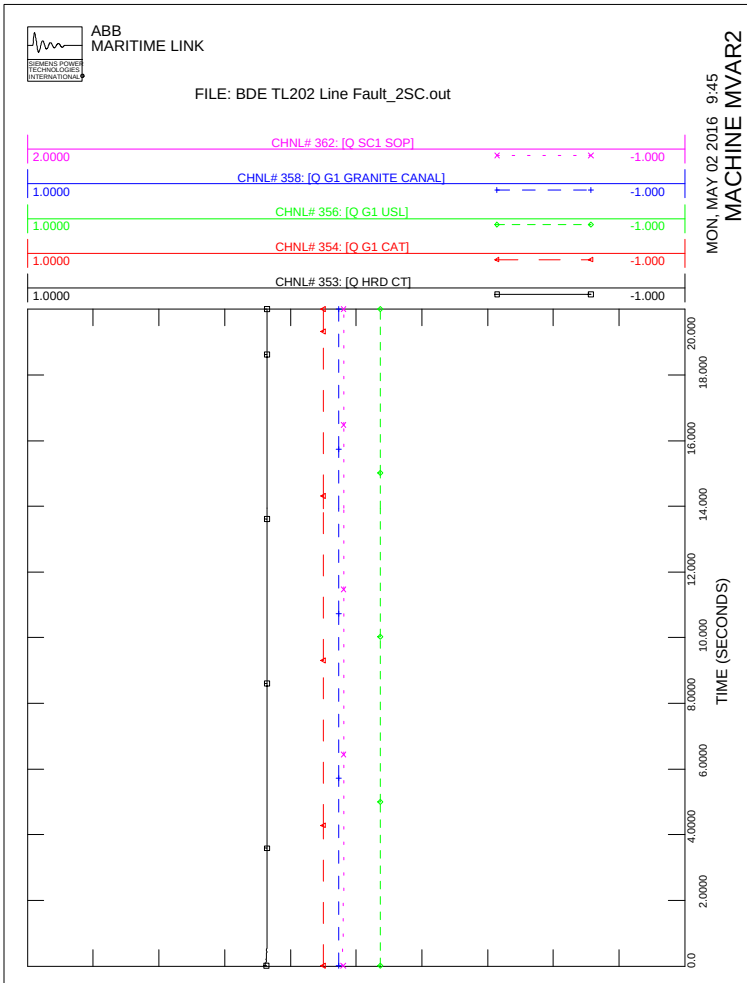
- 1 Please see attachments 1-4 for the ac system response traces for faults at BDE with two or
- 2 three high inertia synchronous condensers online at SOP.

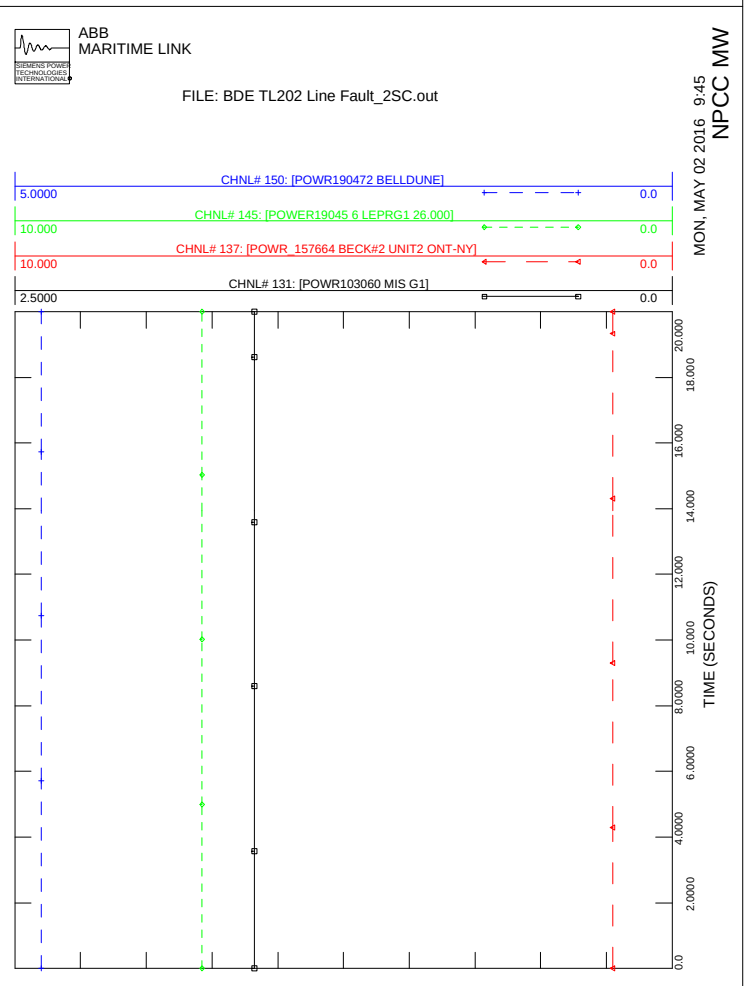
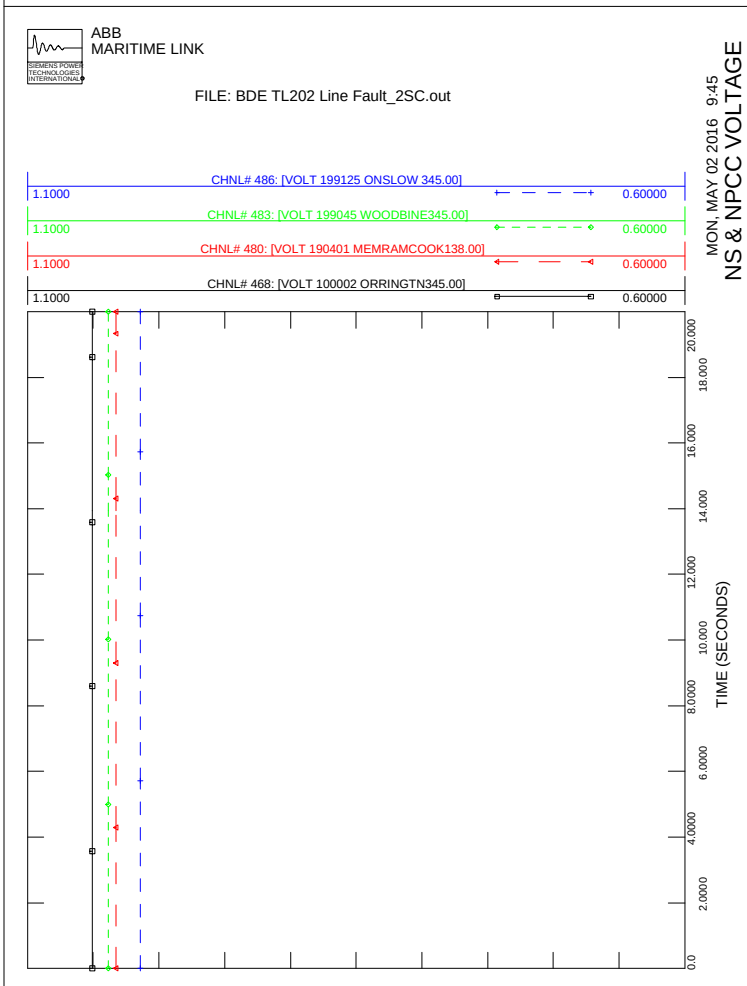
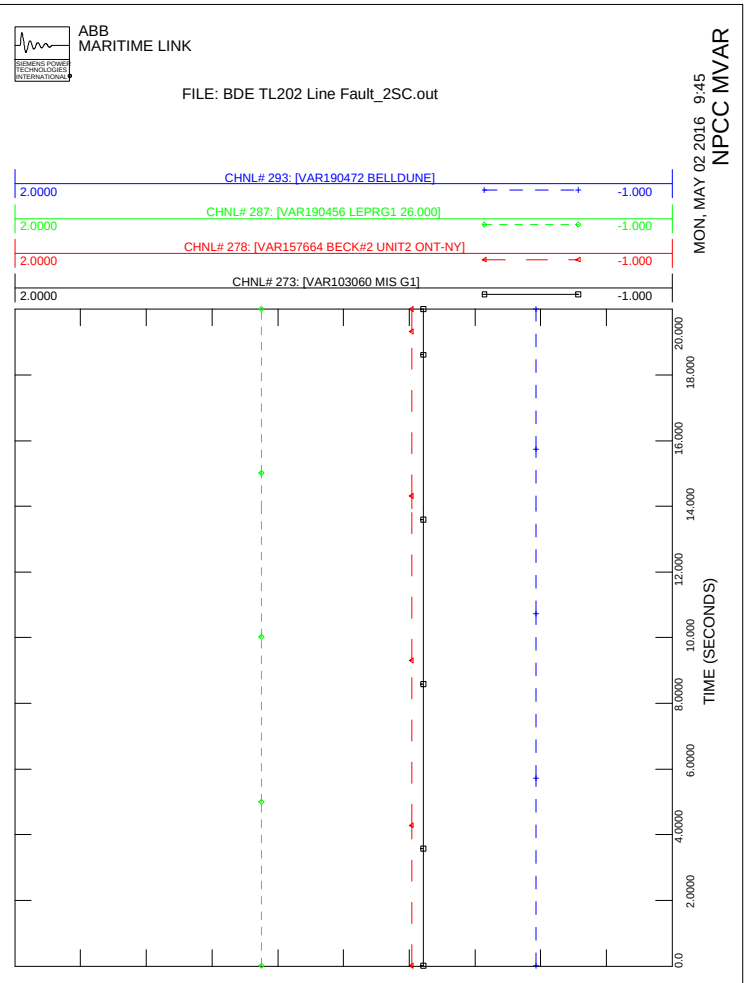
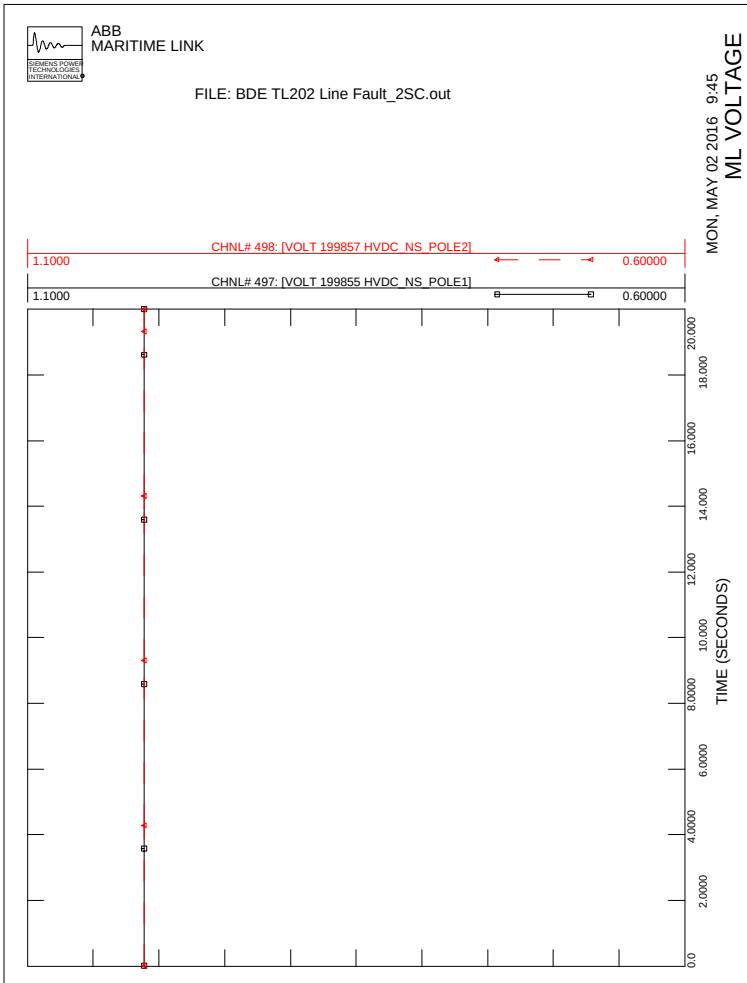


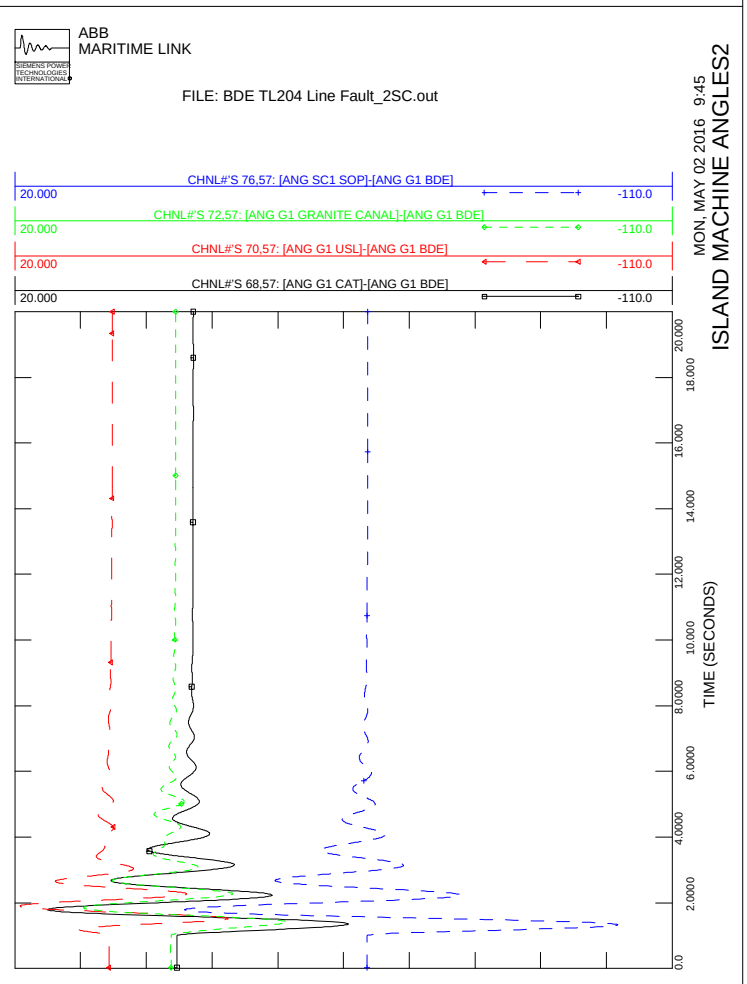
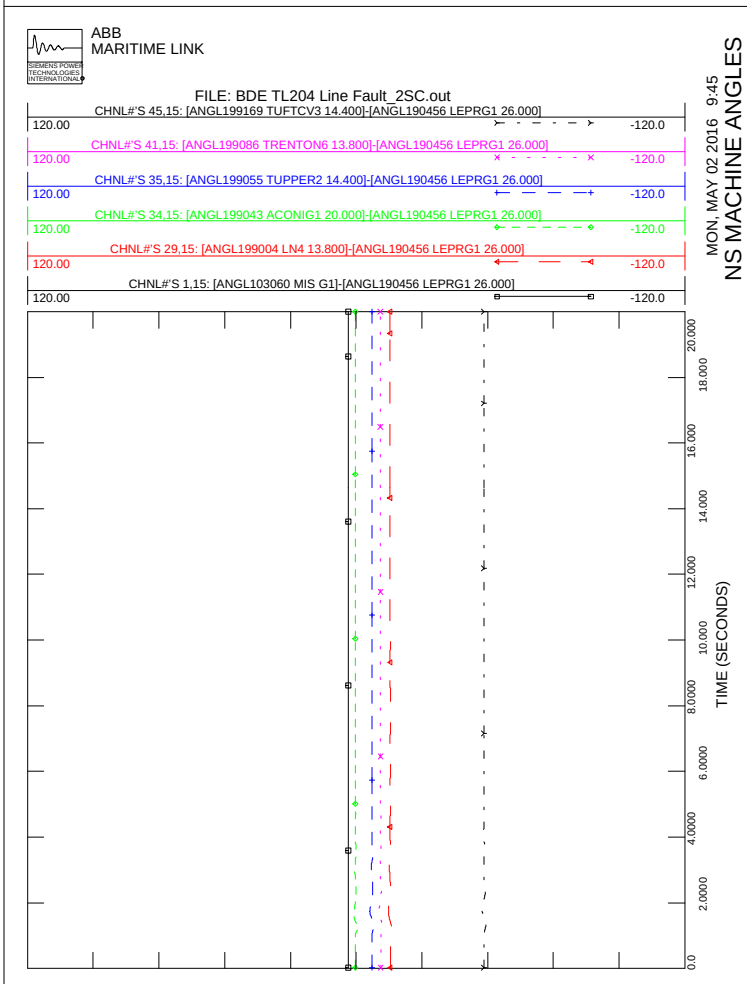
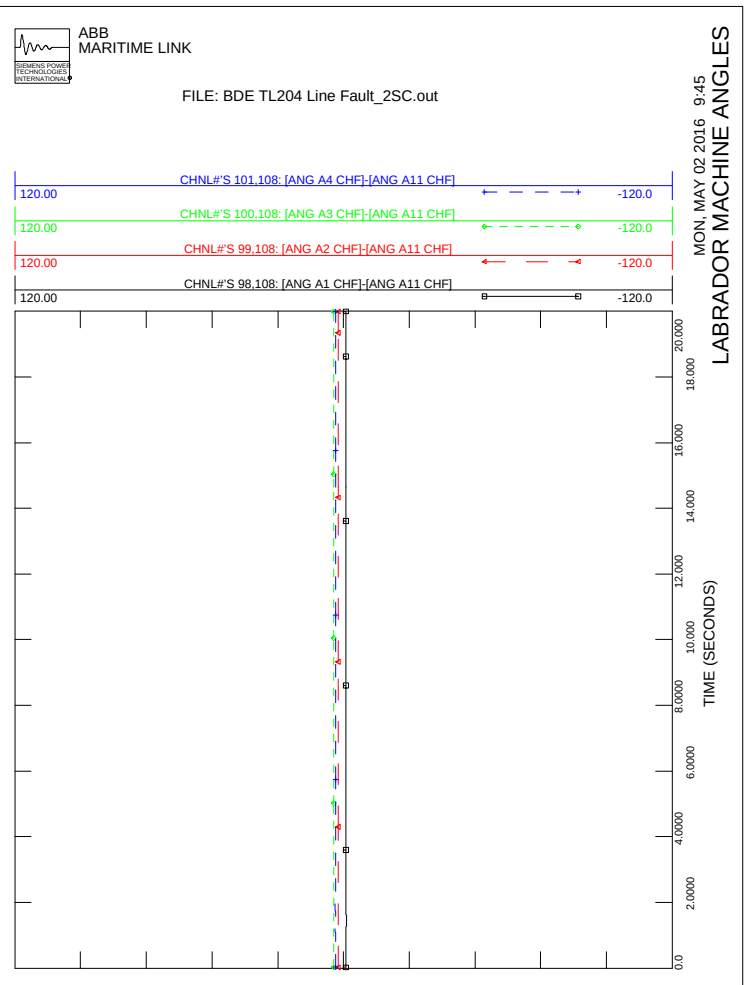
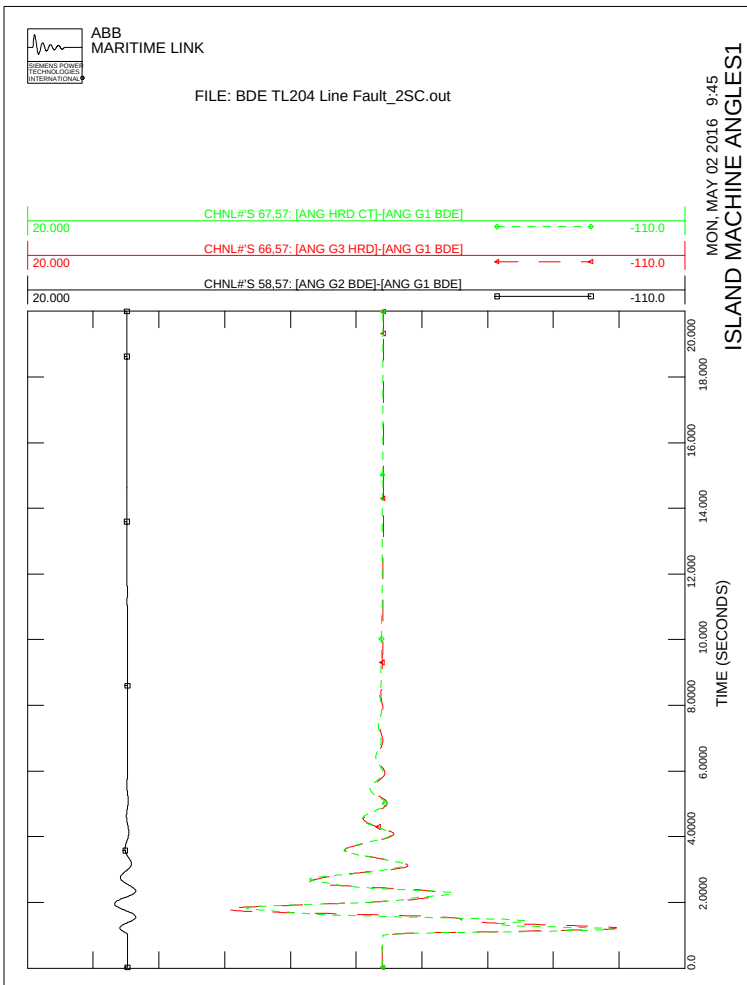


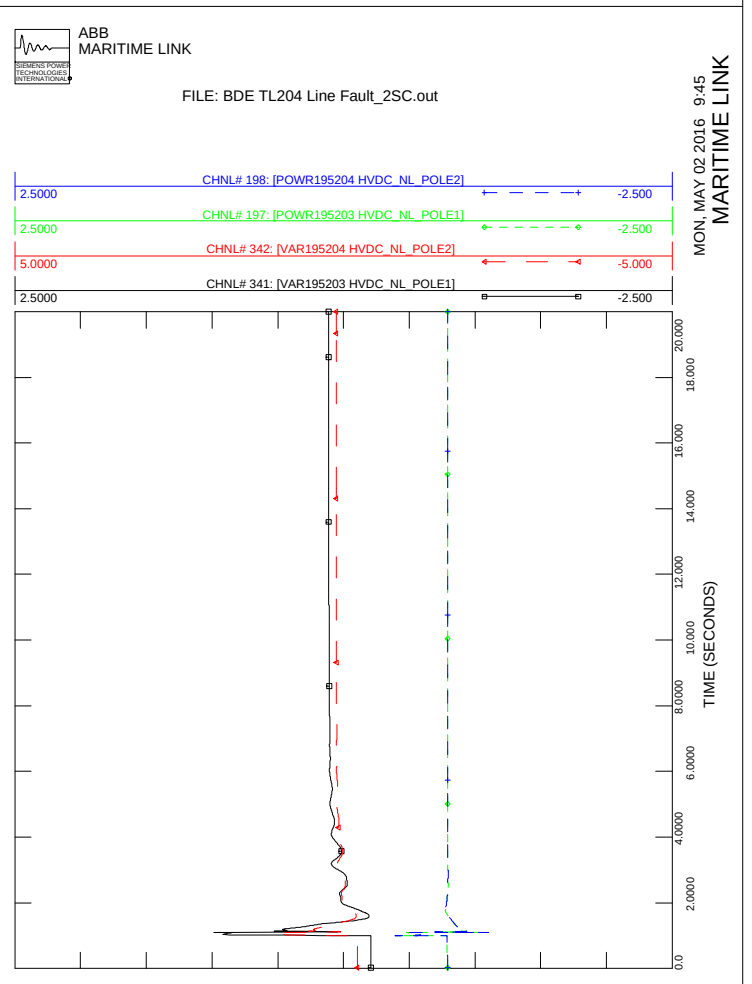
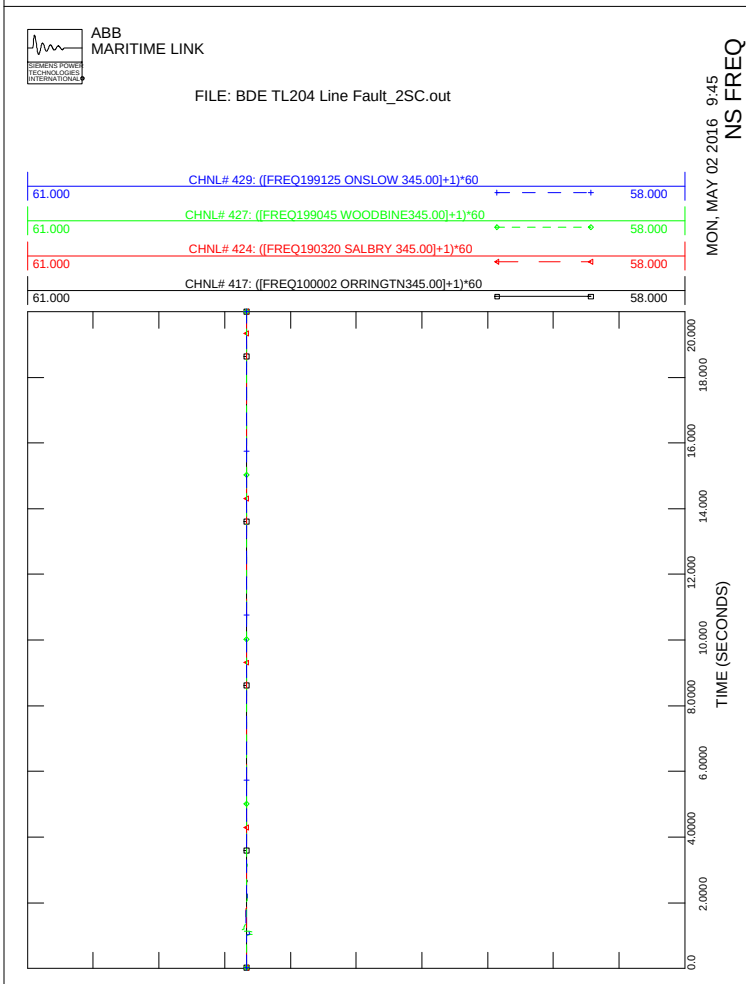
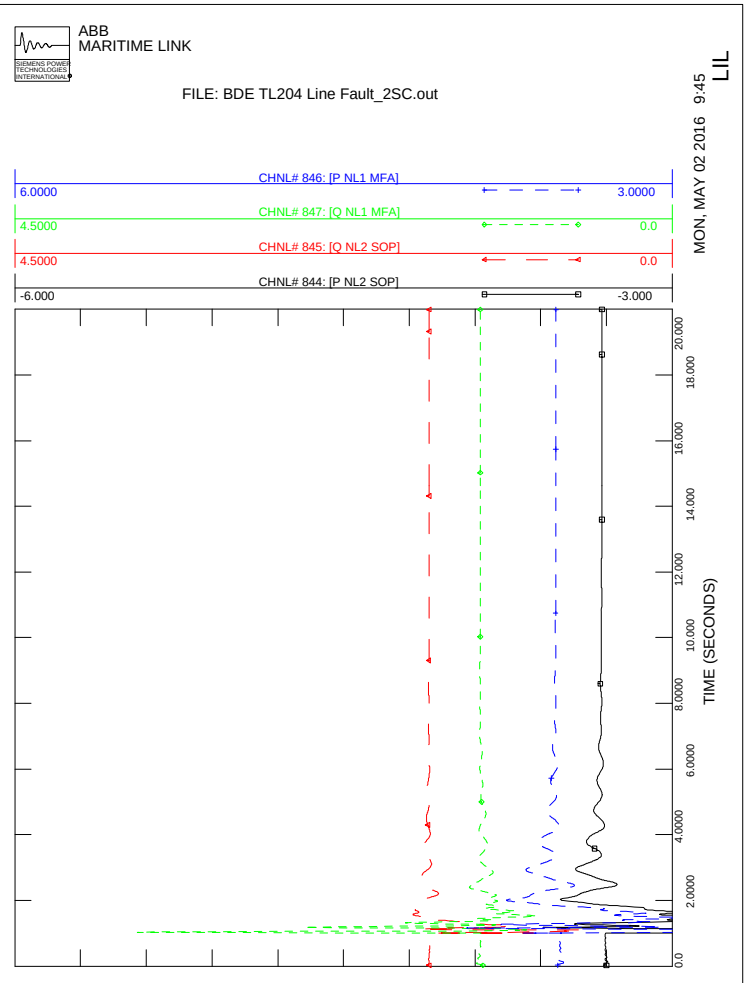
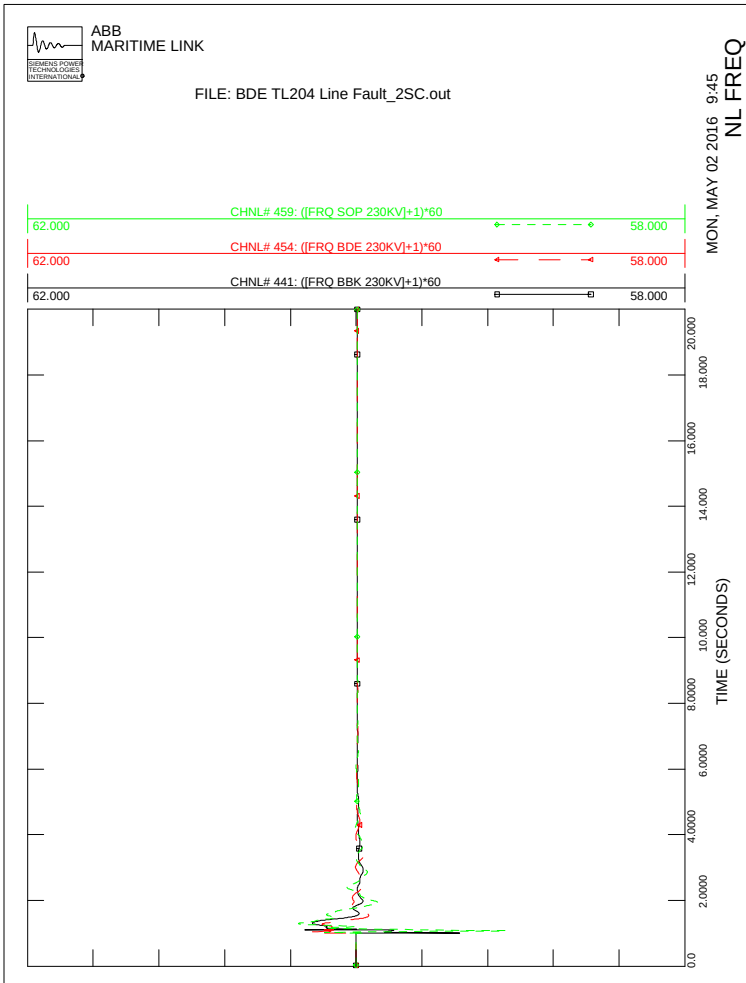


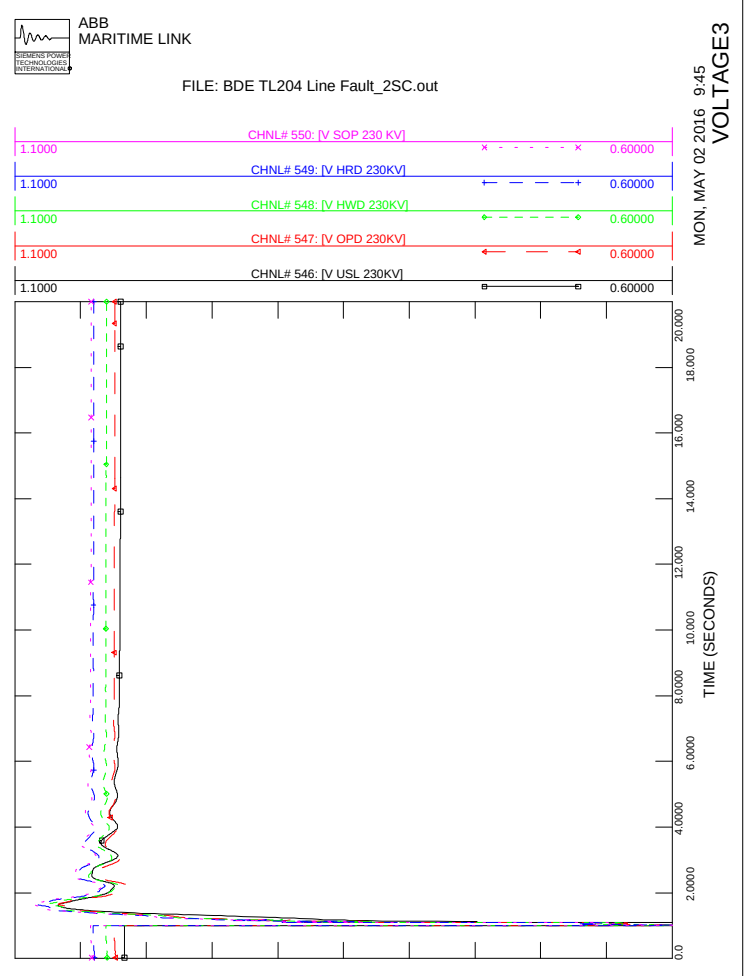
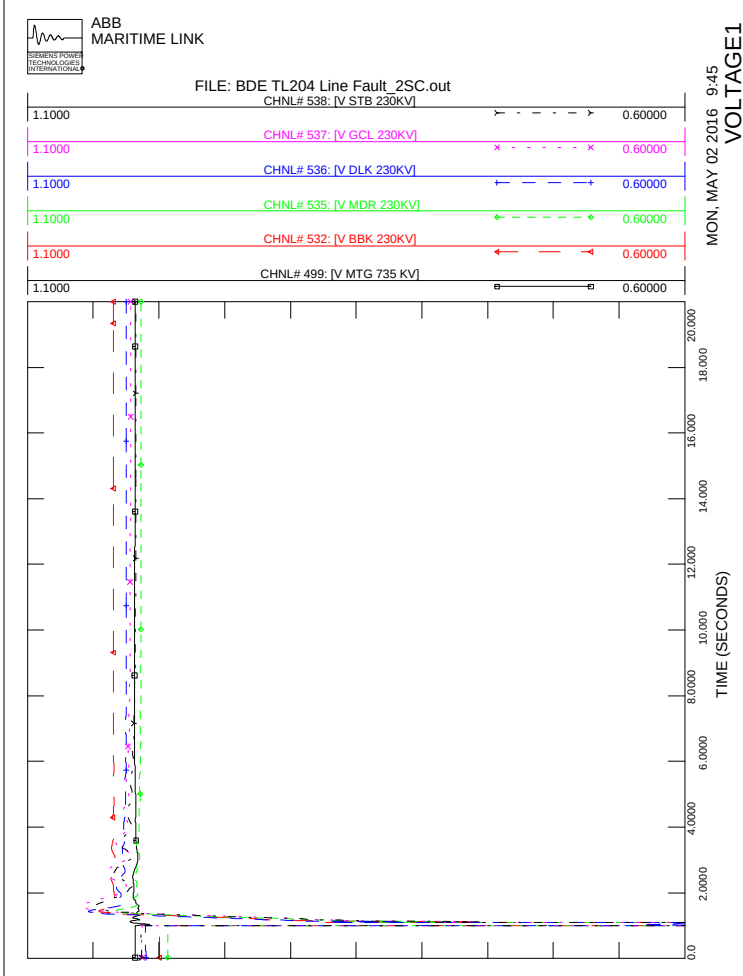
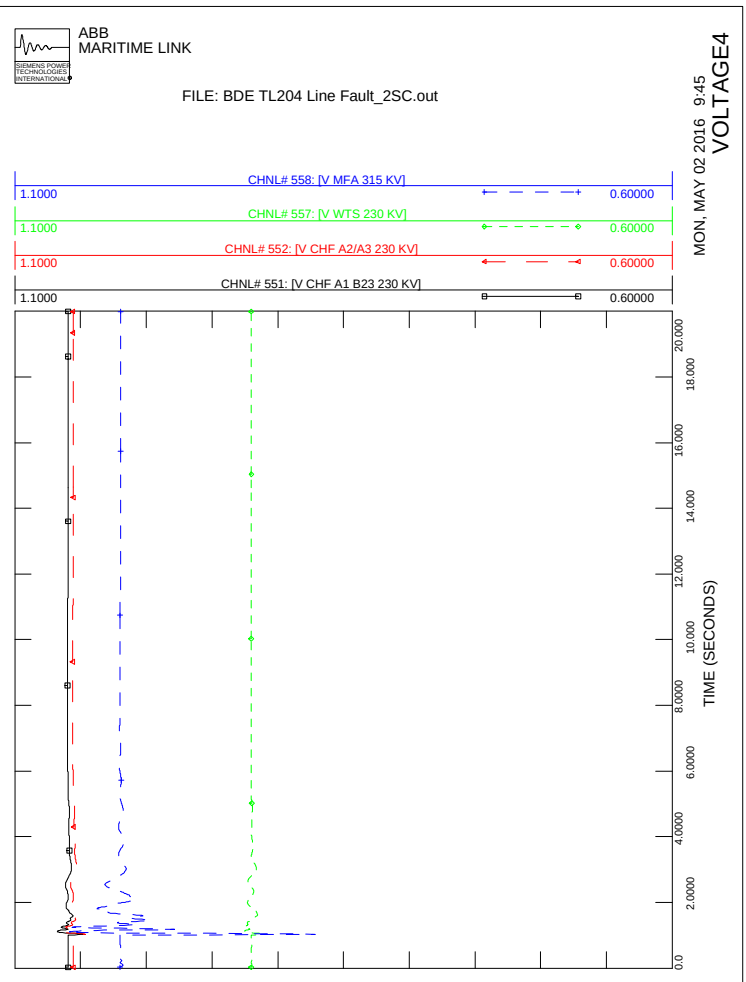
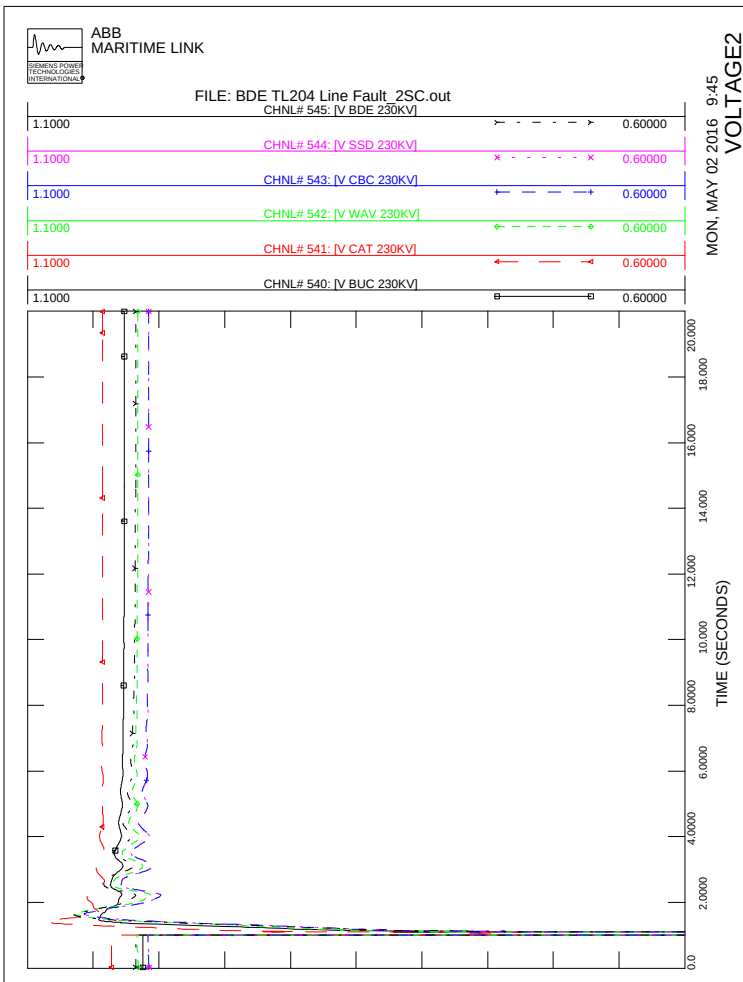


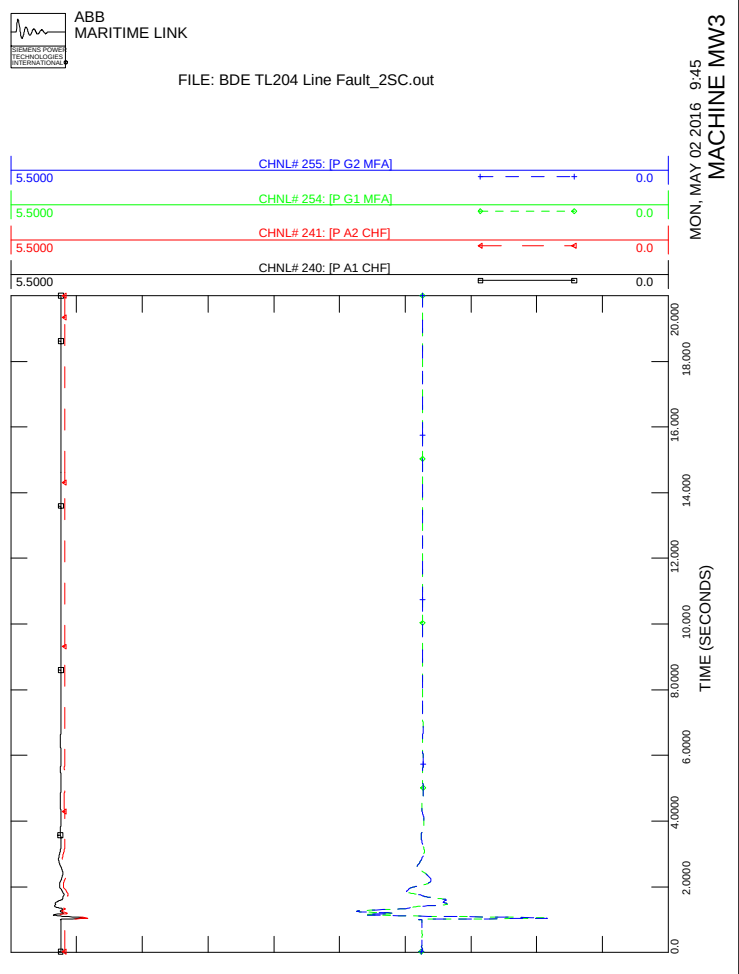
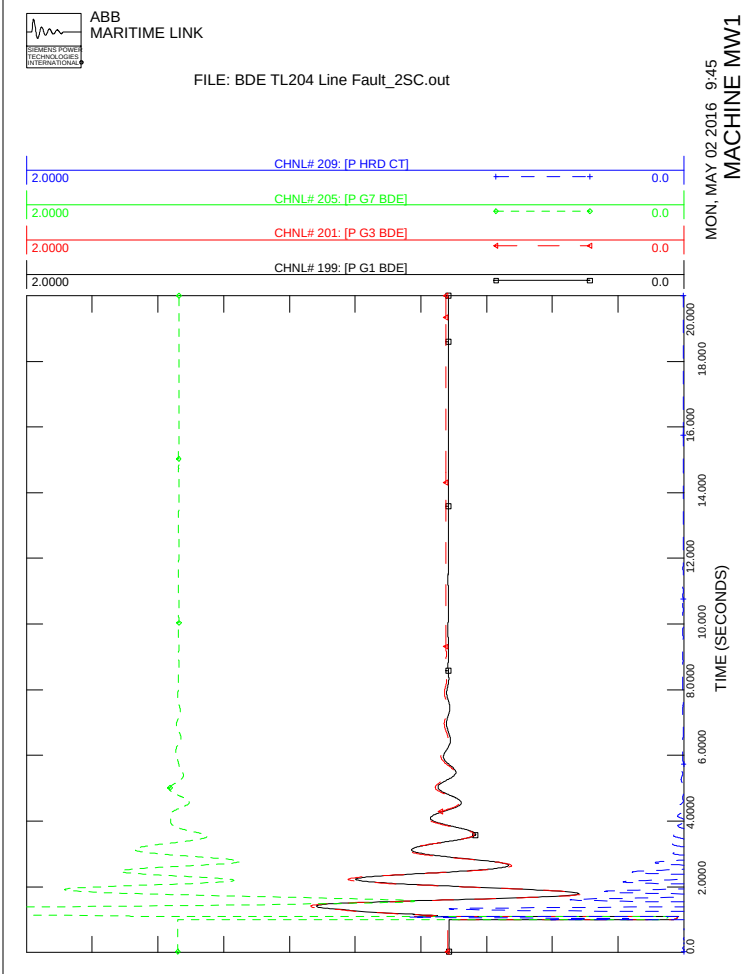
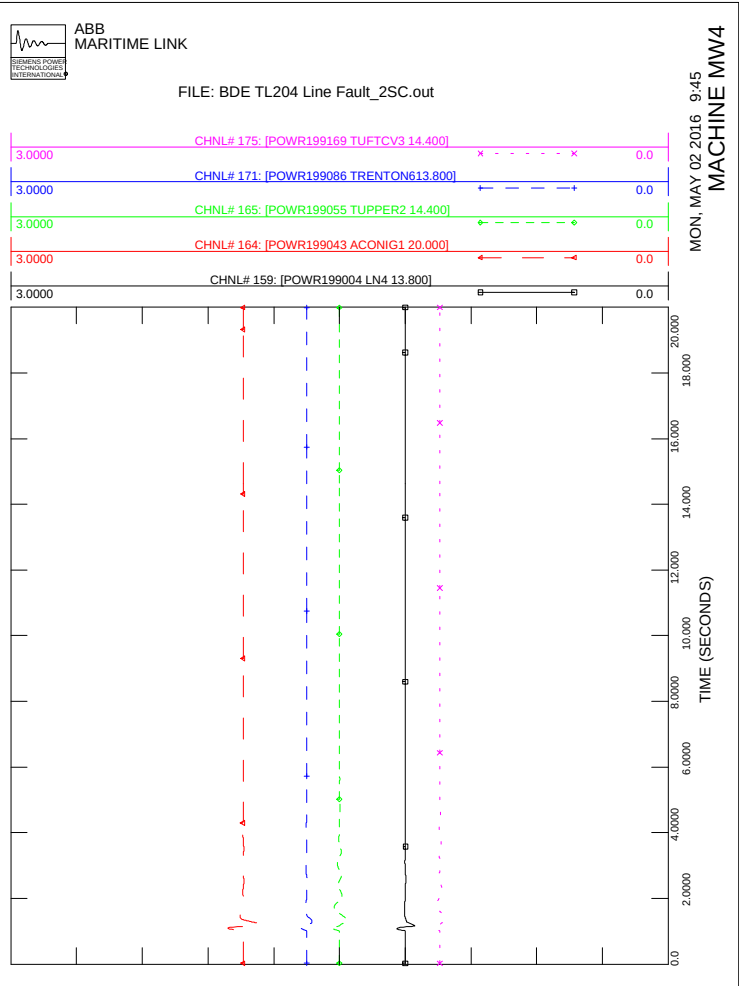
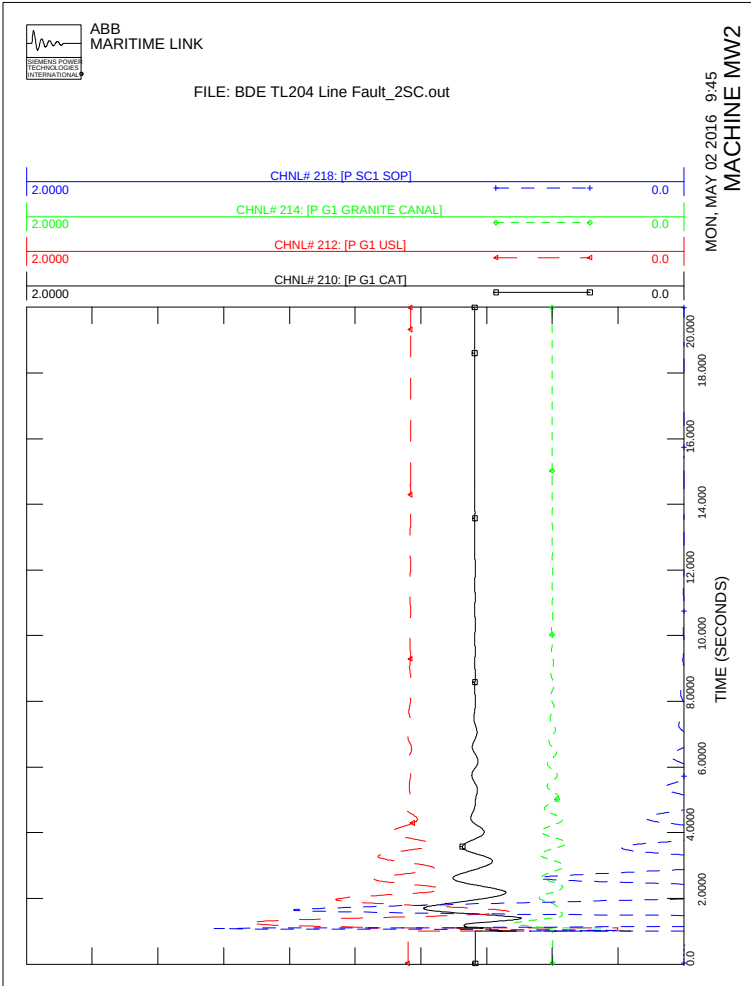


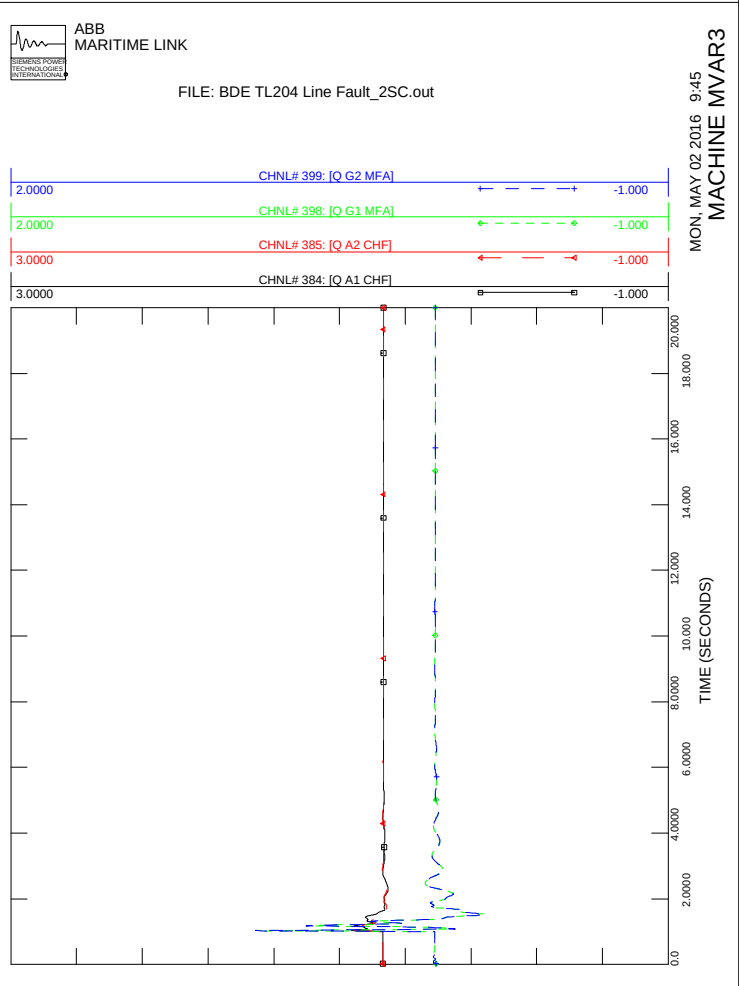
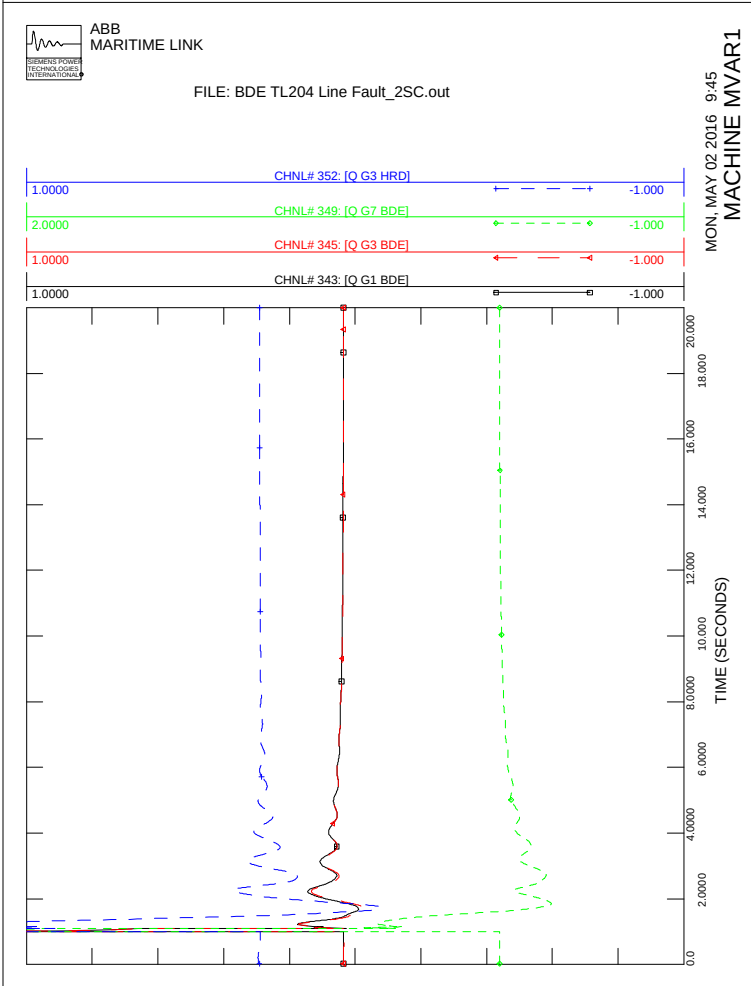
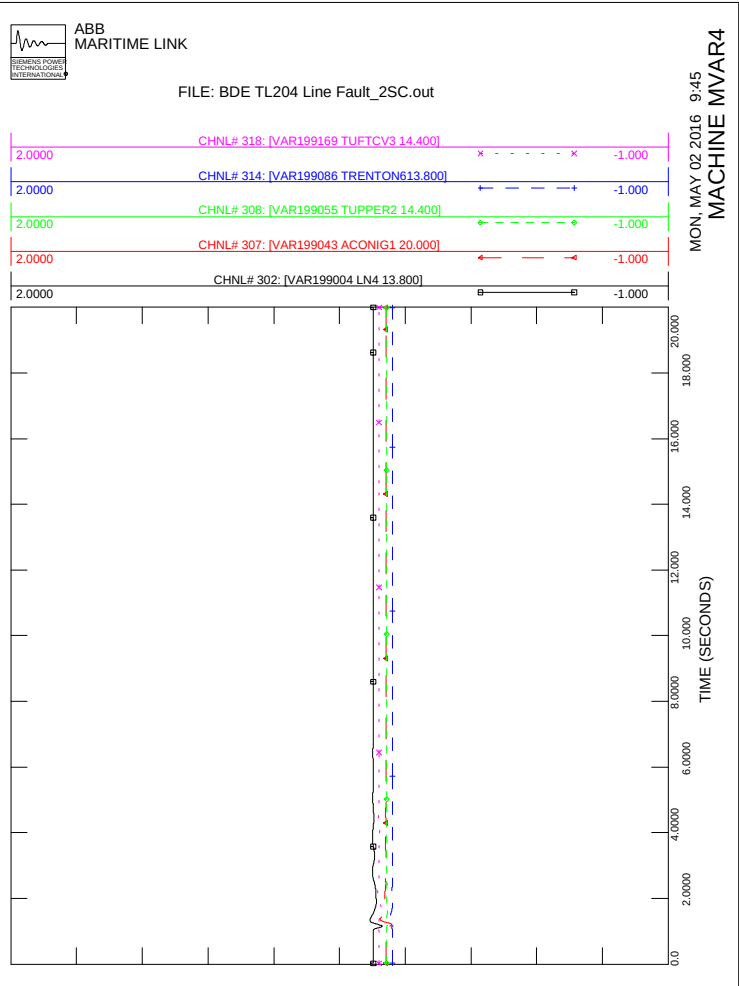
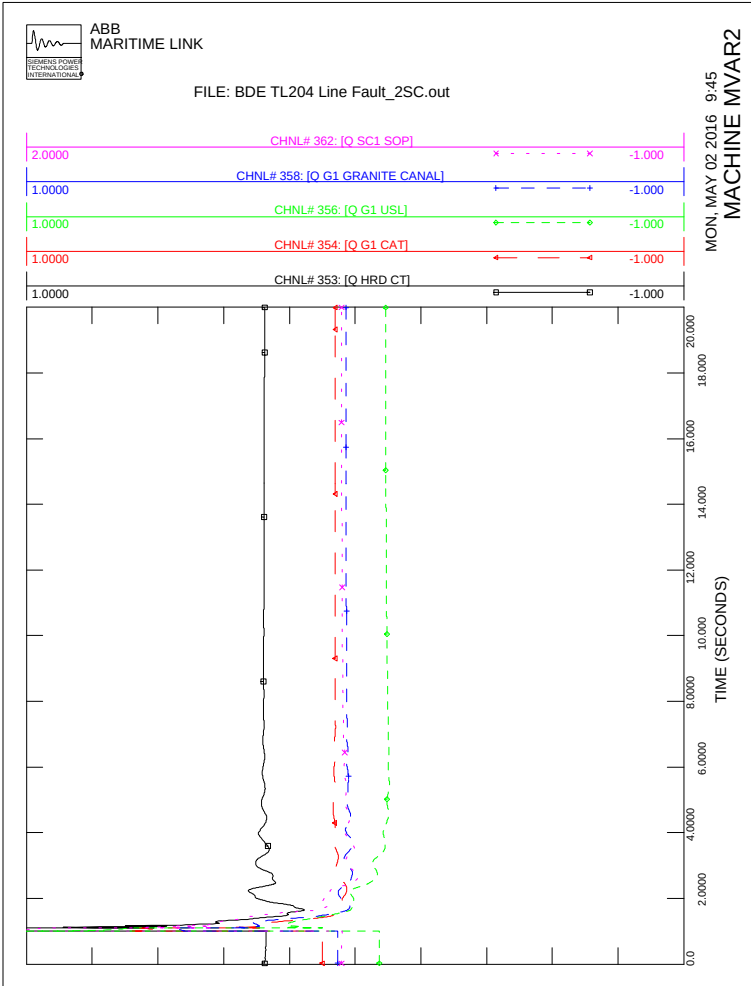


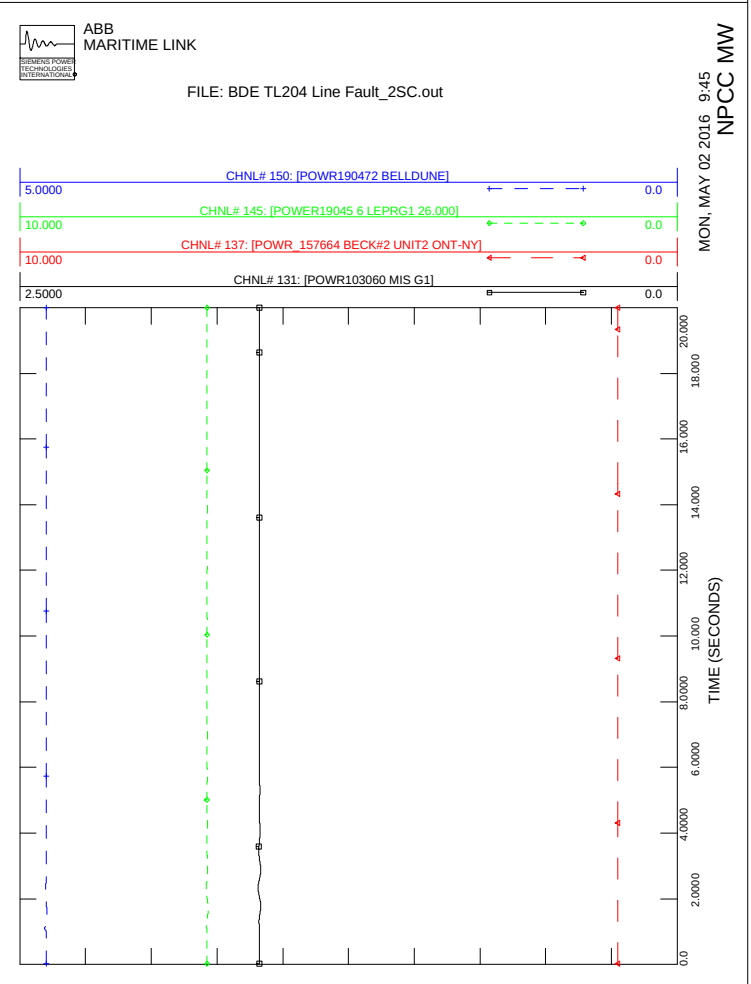
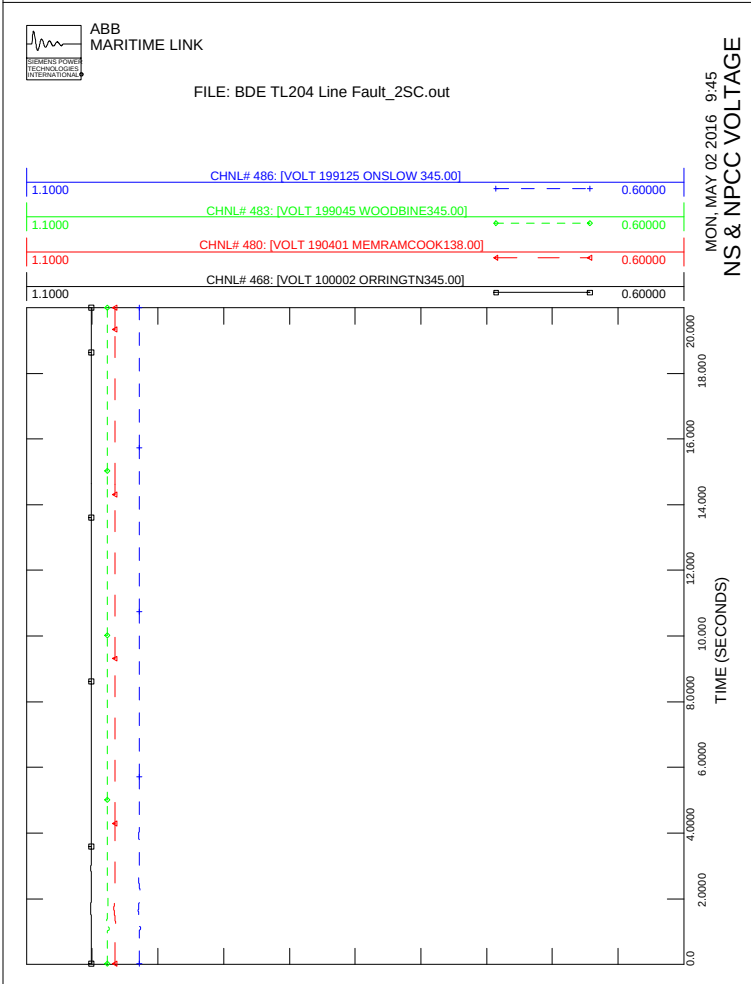
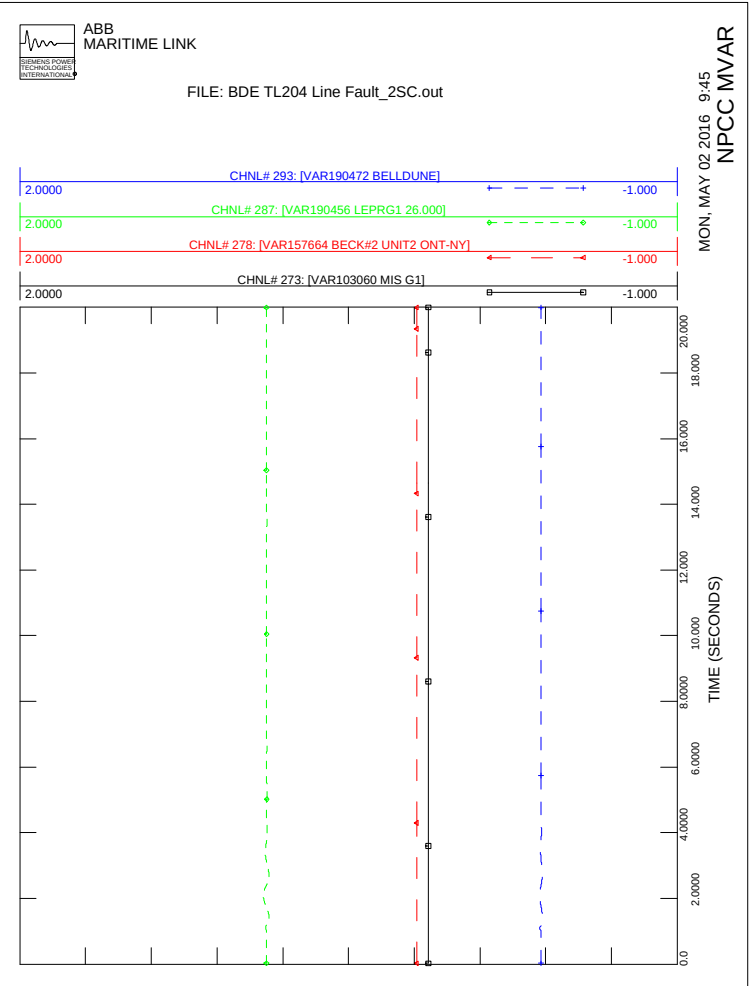
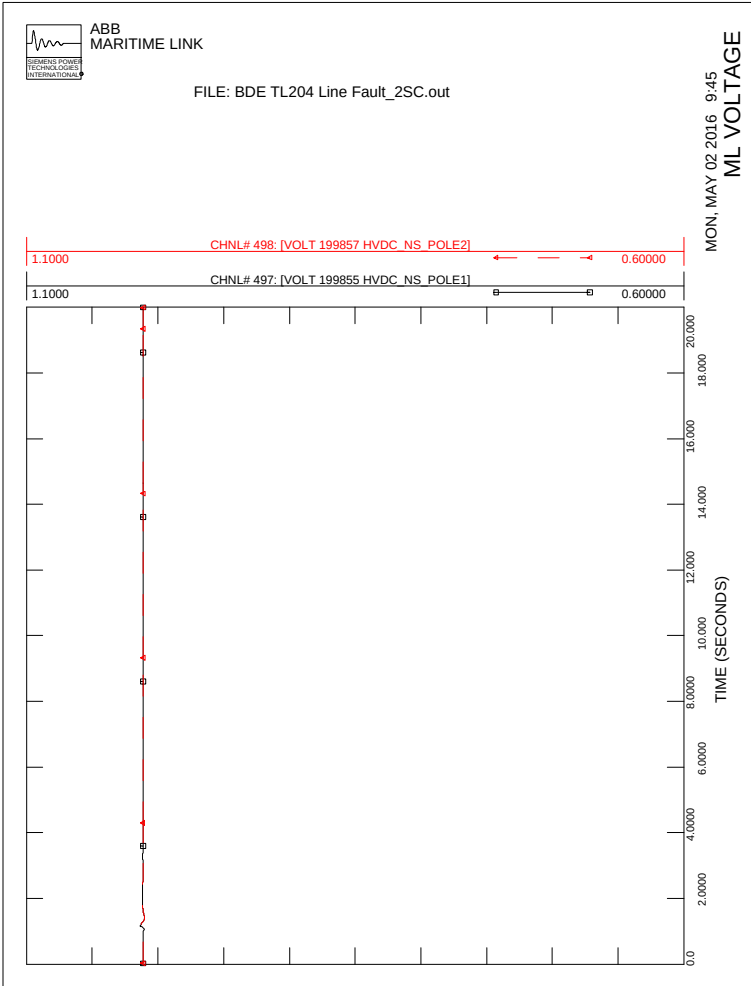


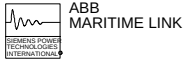










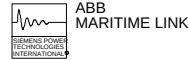
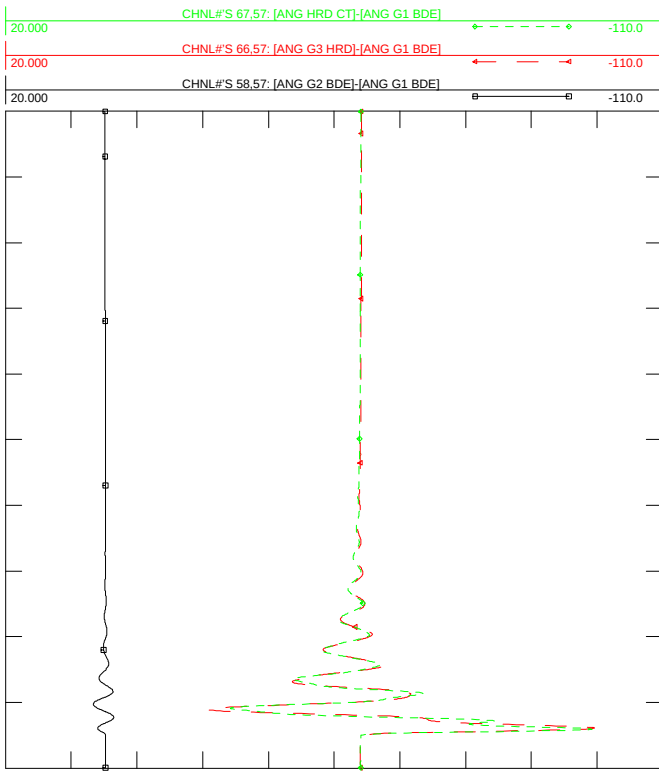


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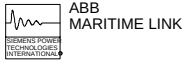
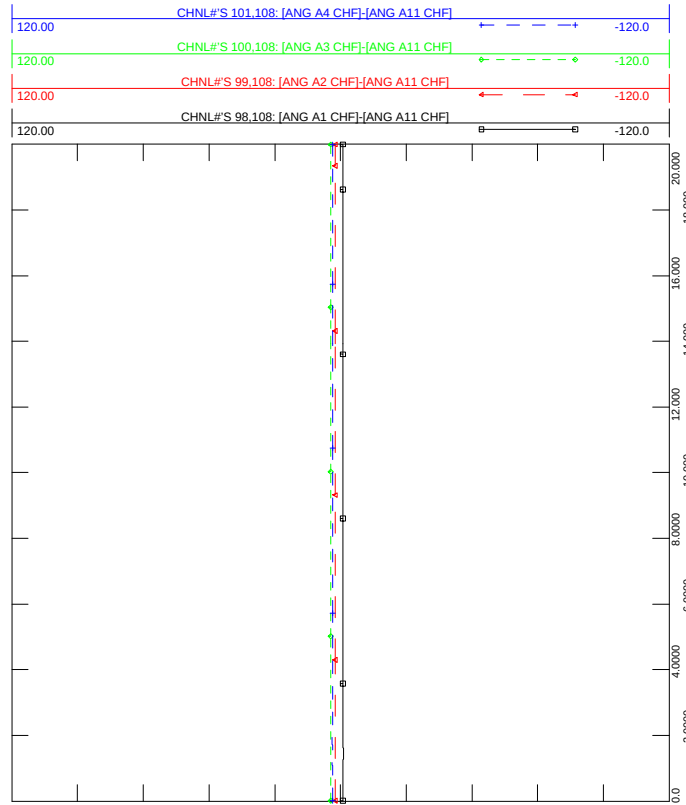


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LABRADOR MACHINE ANGLES

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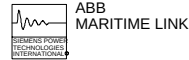
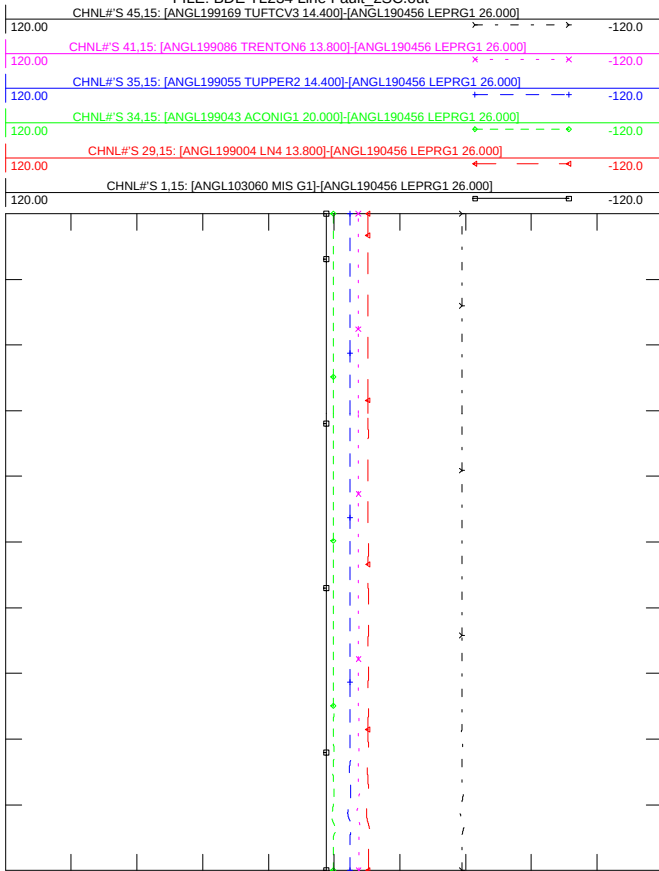


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NS MACHINE ANGLES

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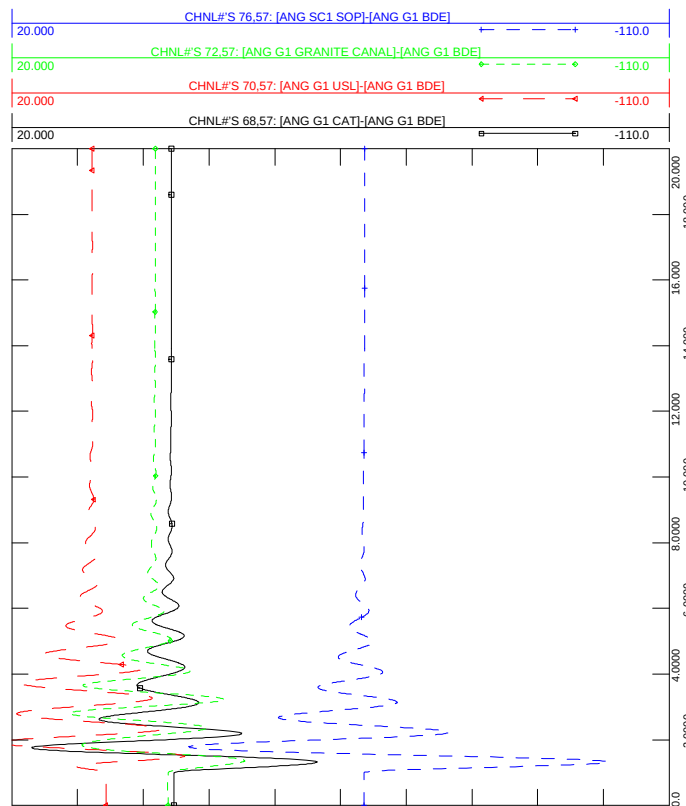


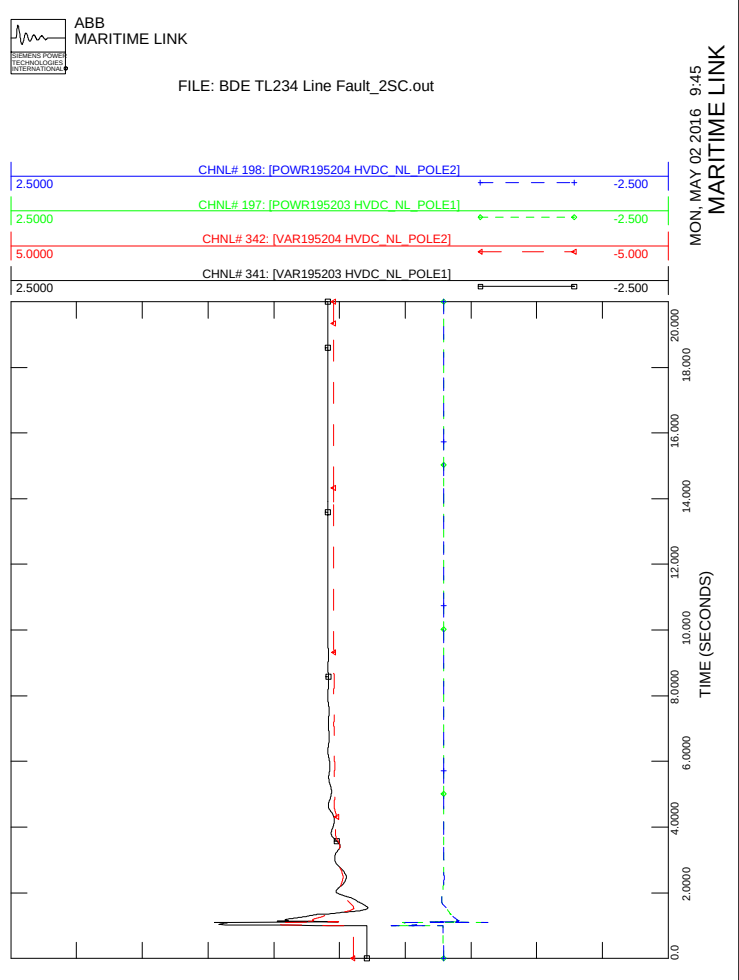
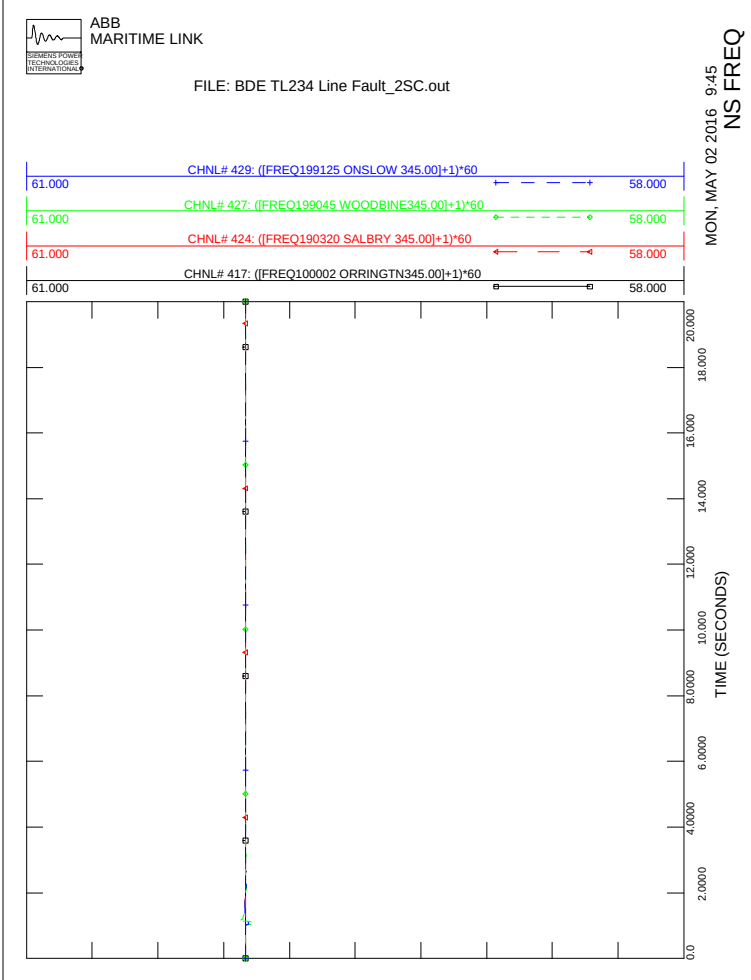
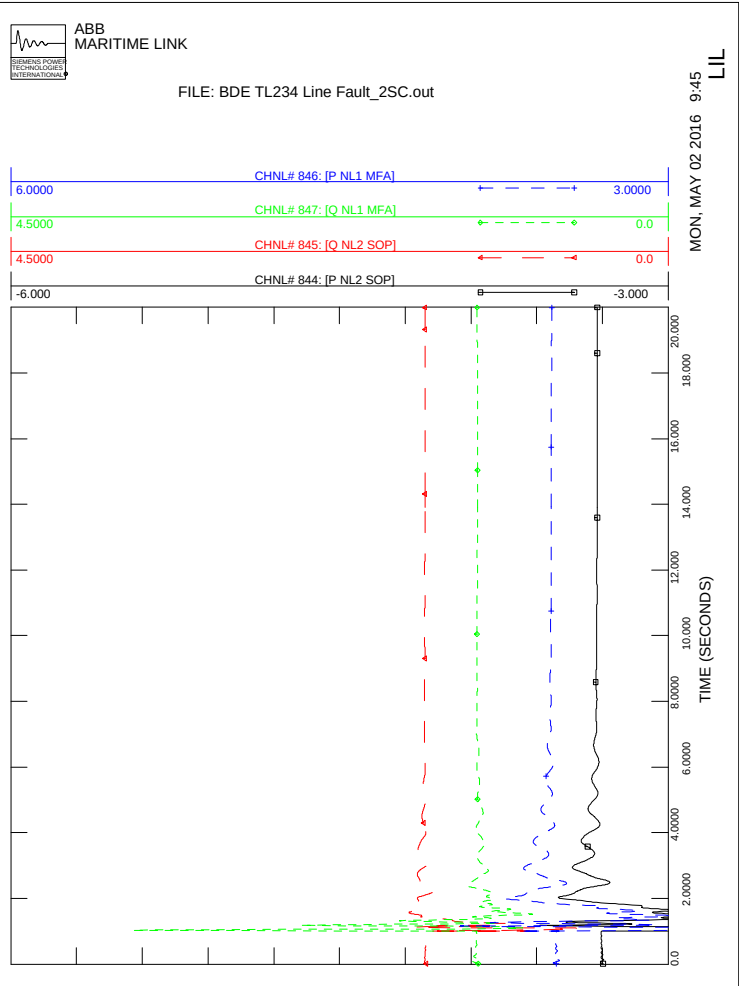
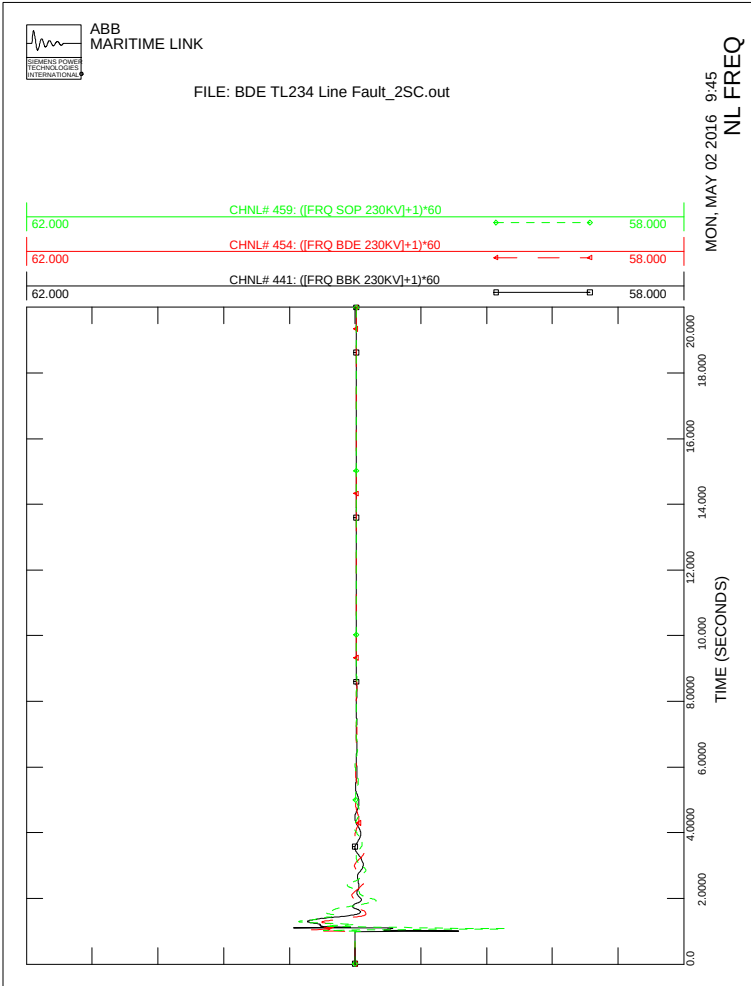
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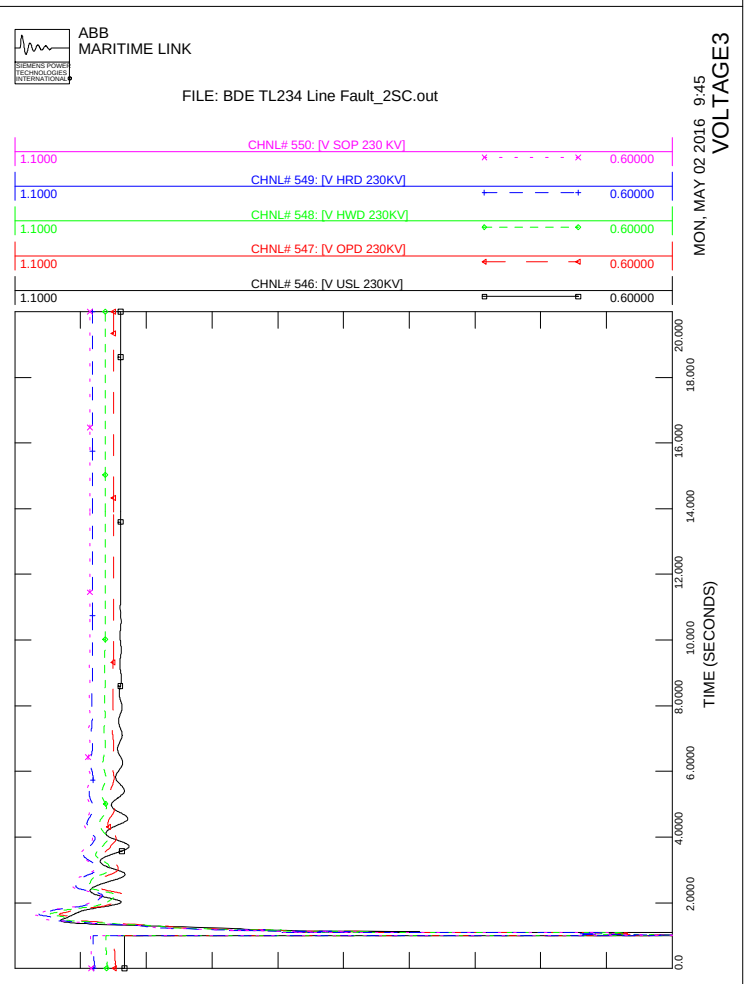
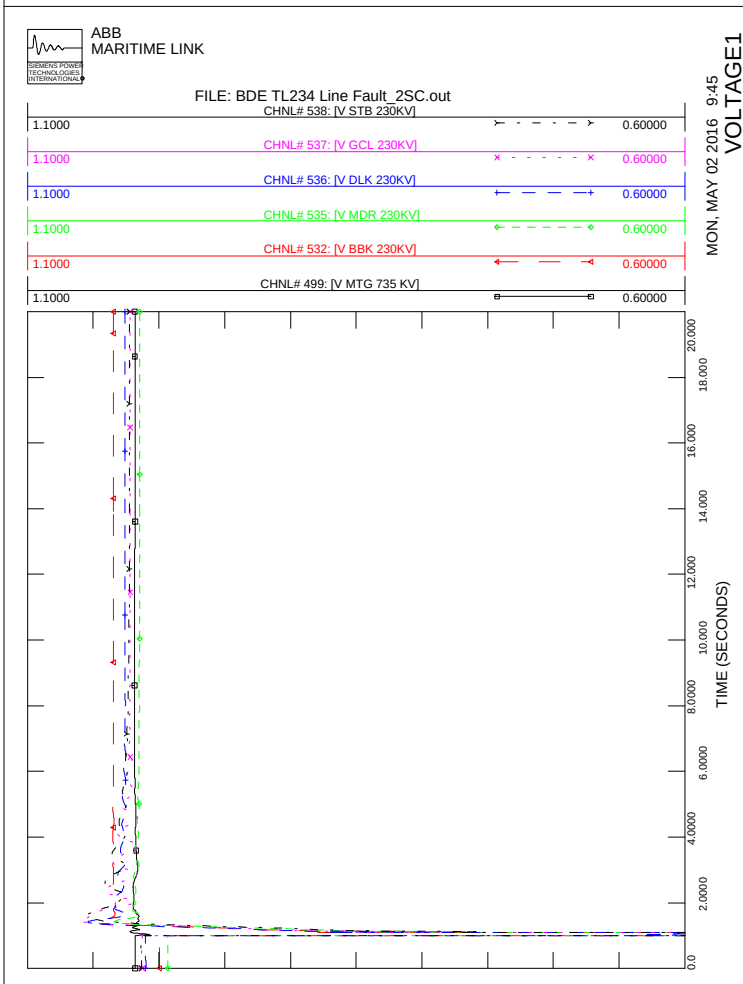
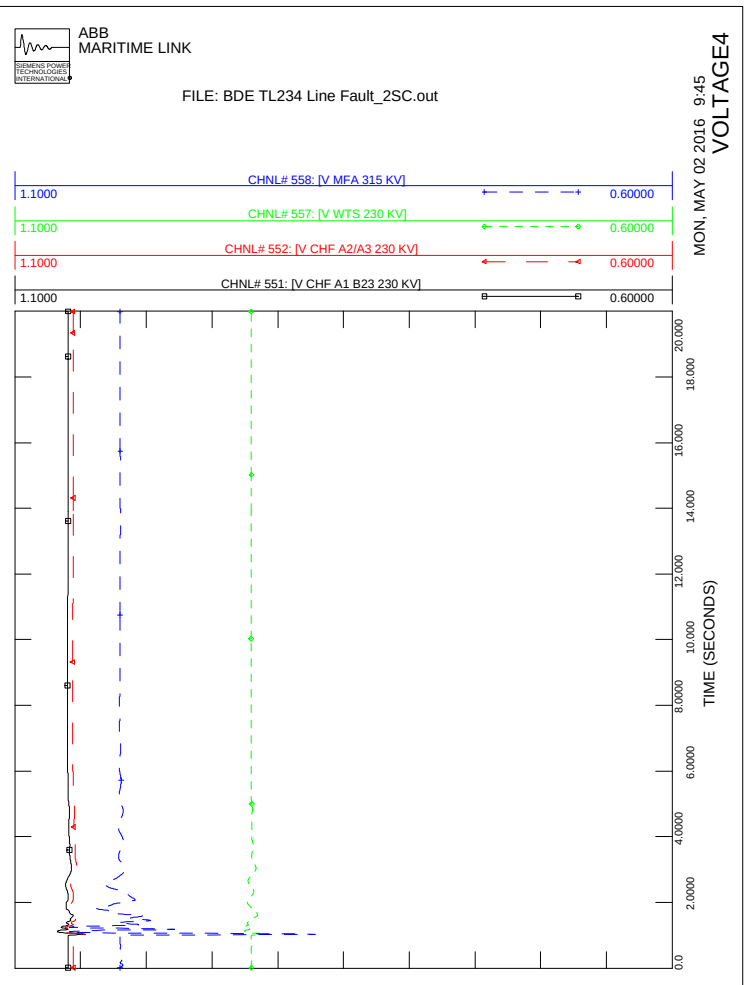
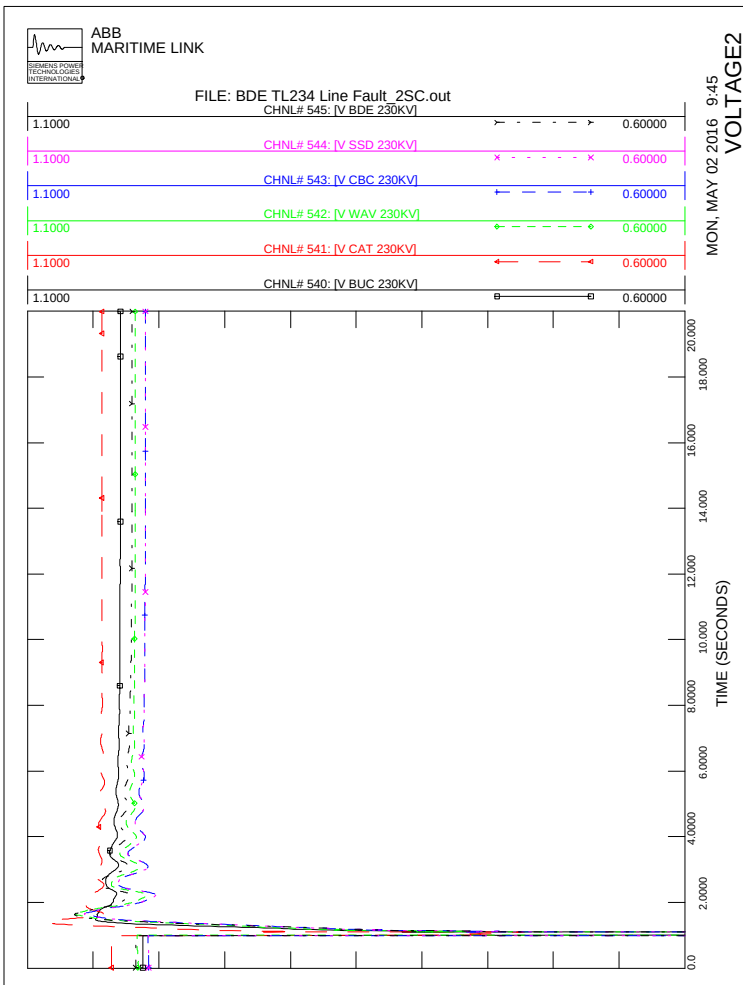
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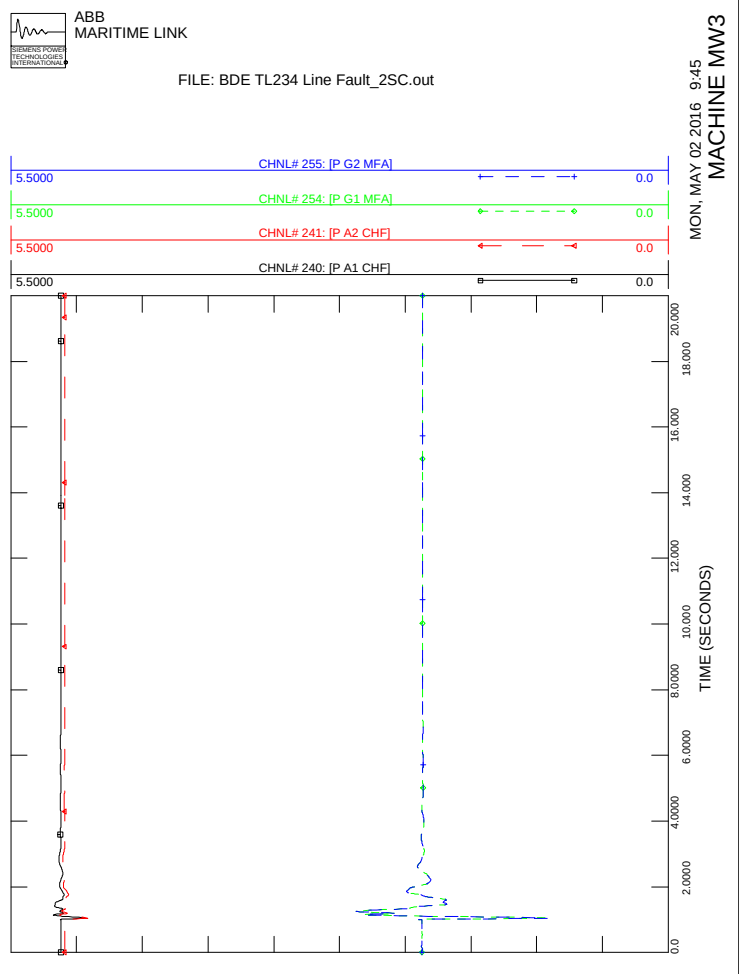
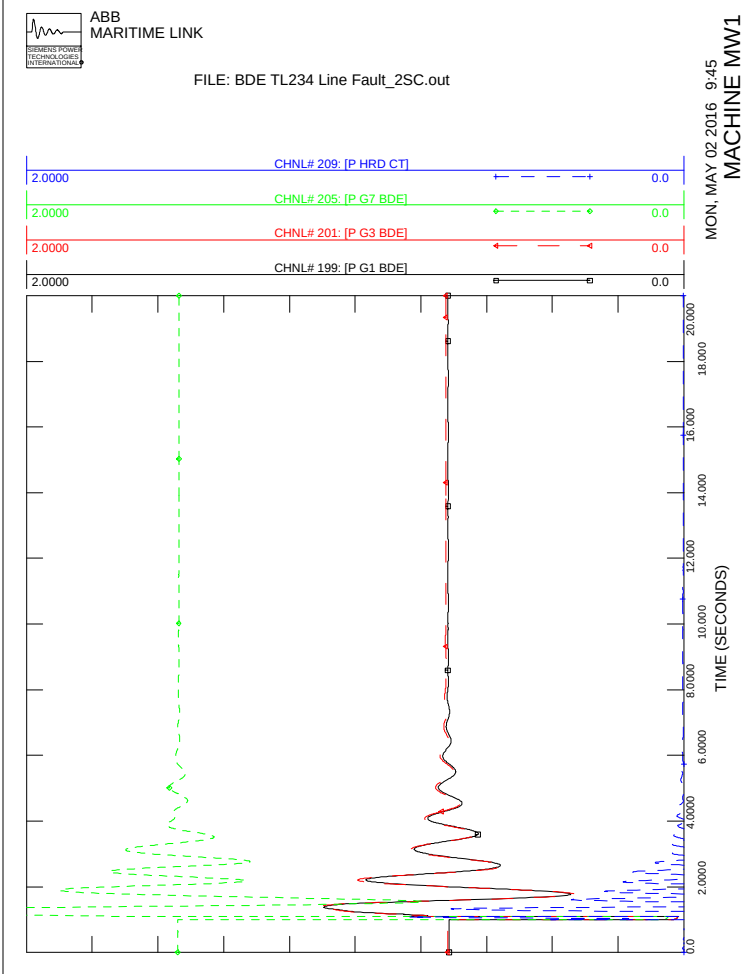
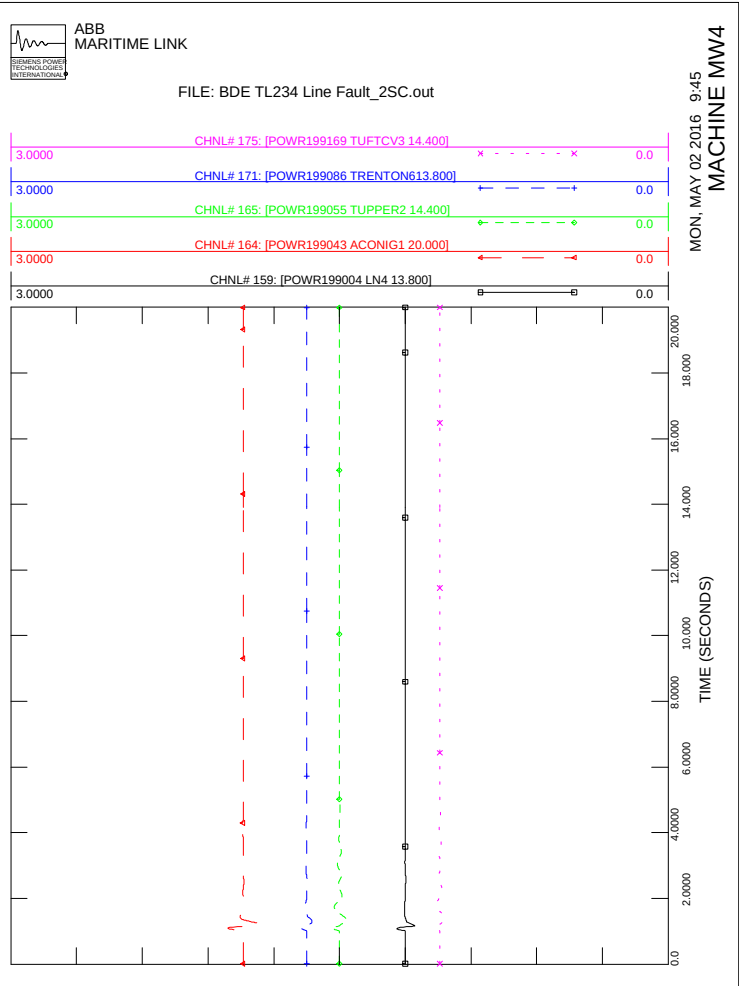
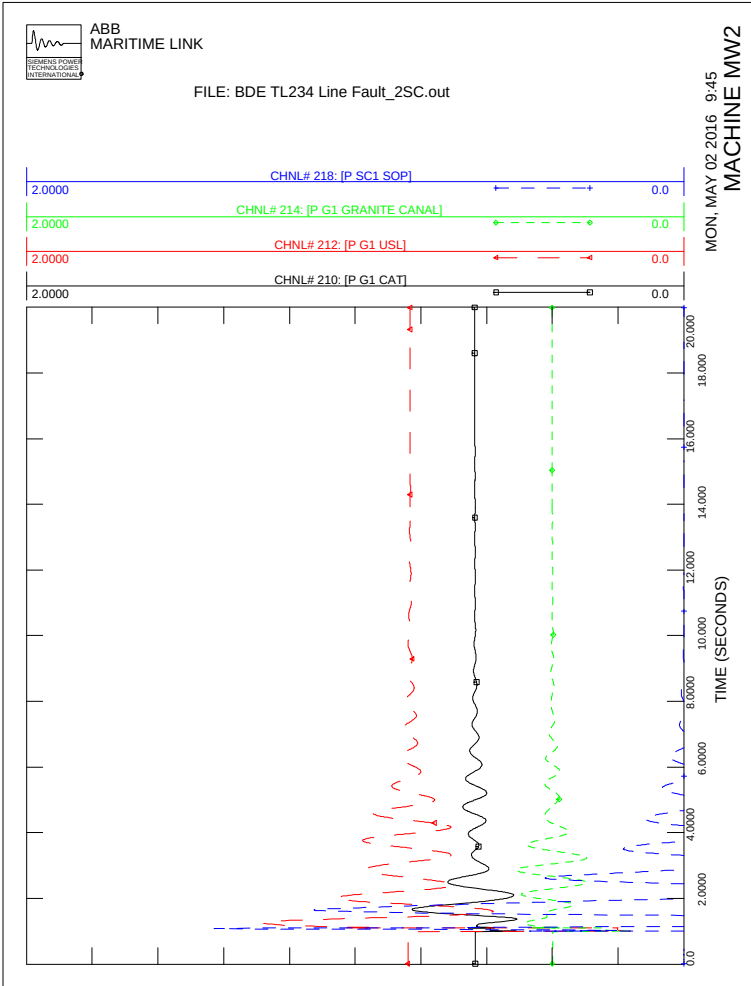
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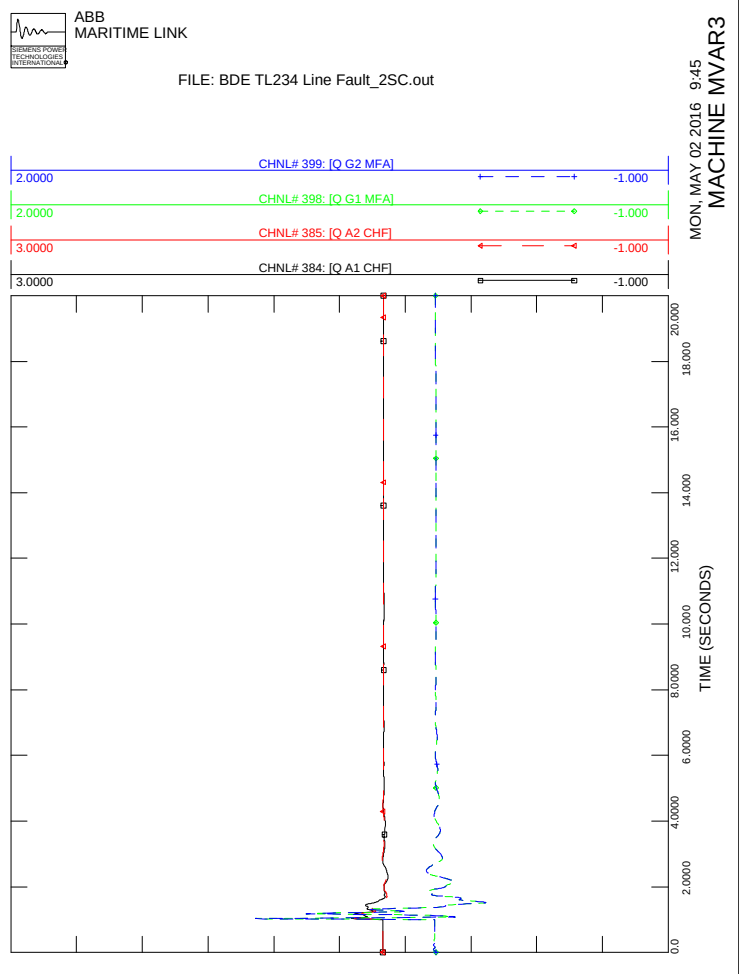
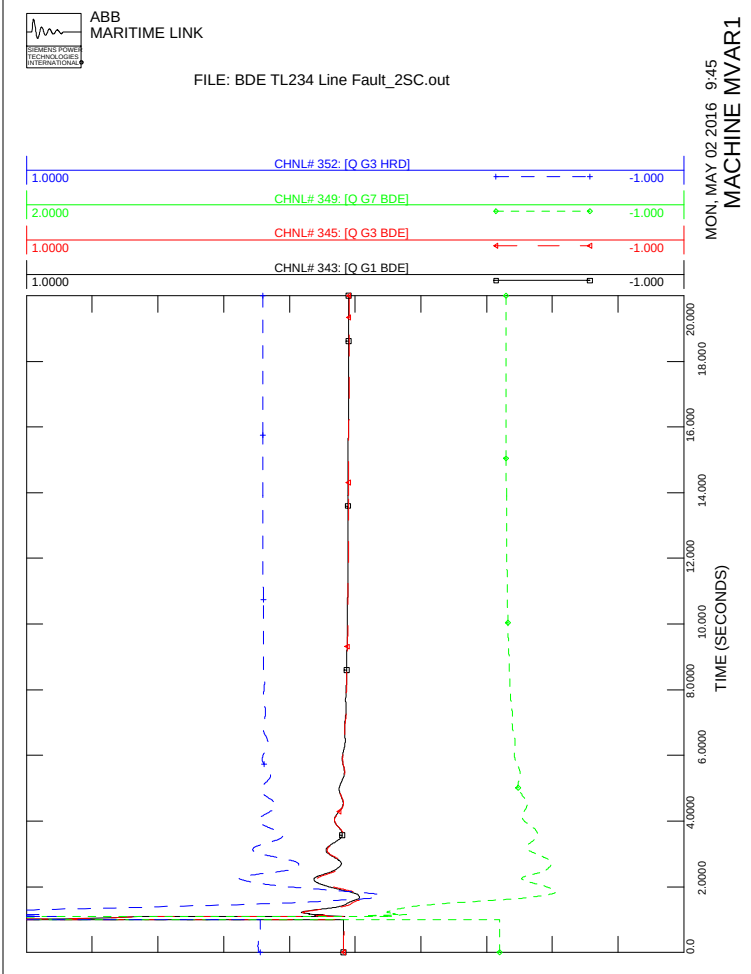
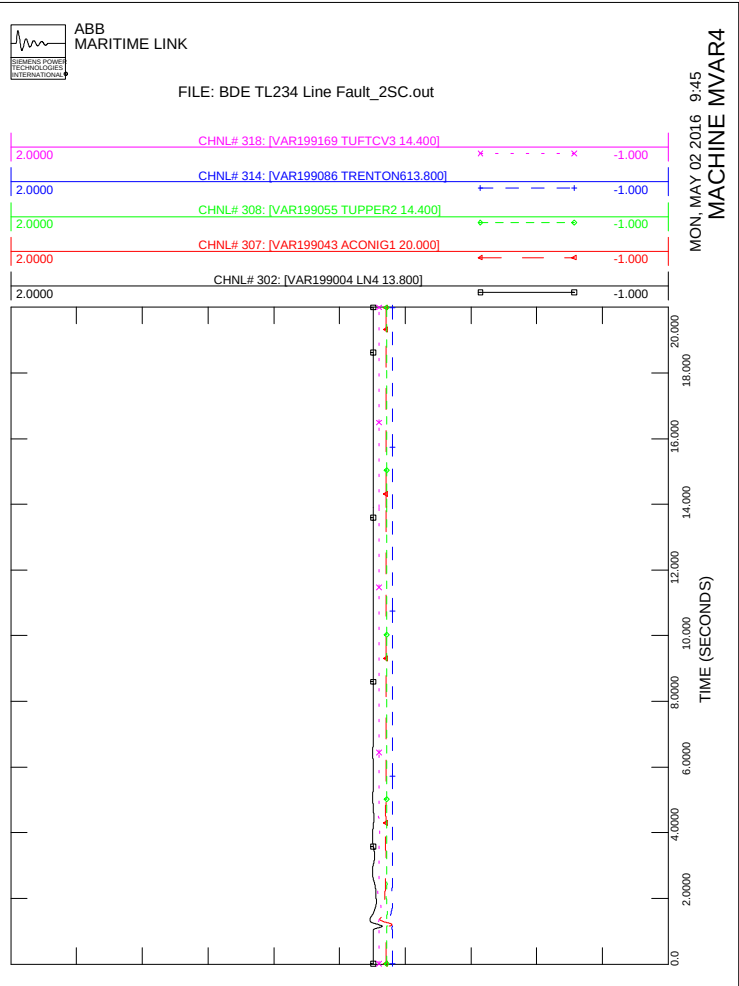
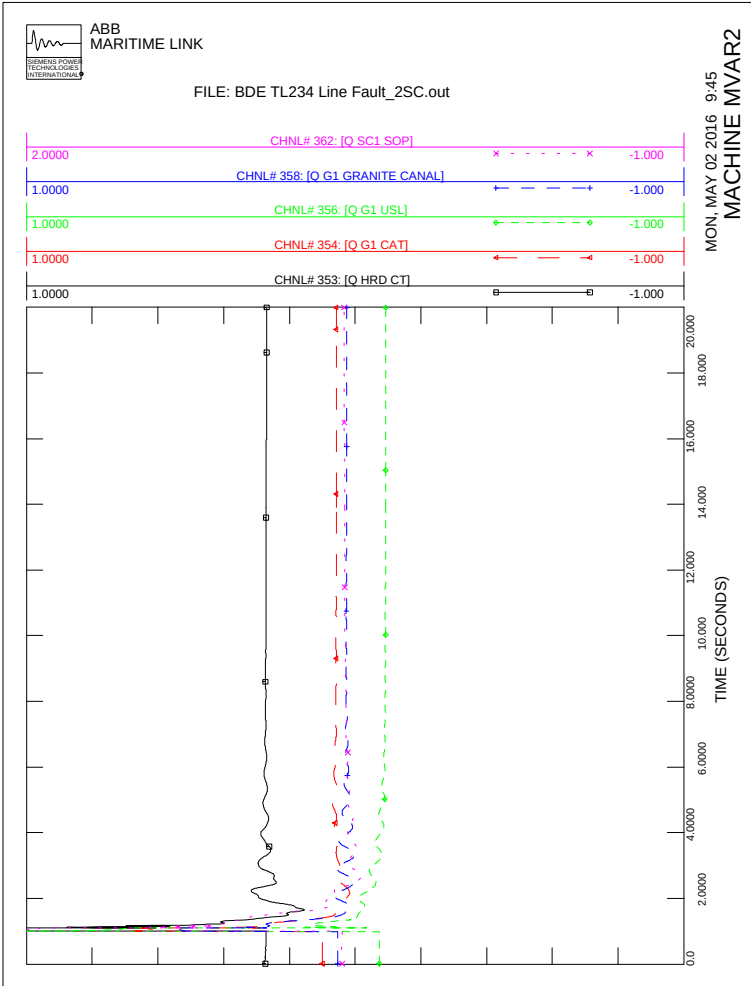
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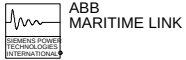






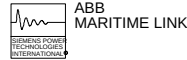
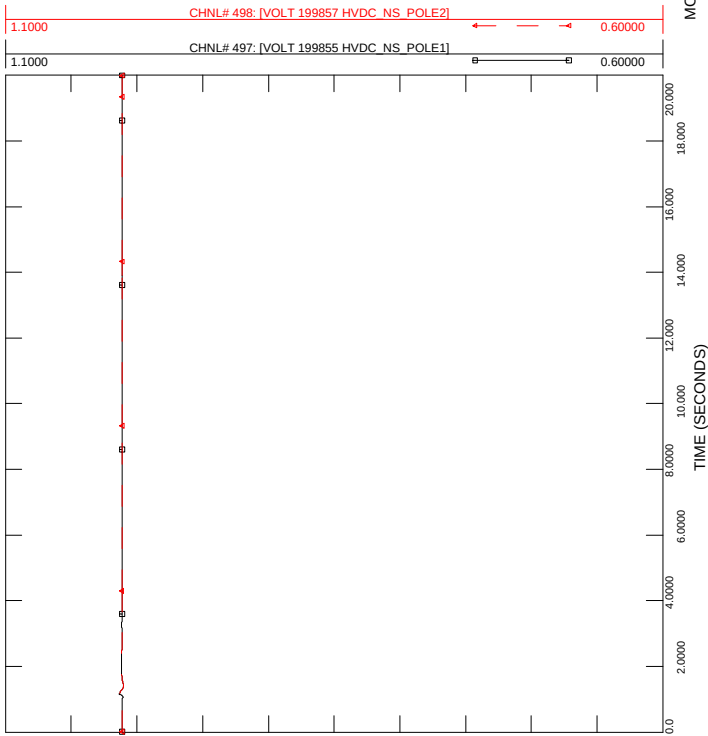






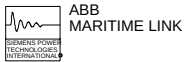
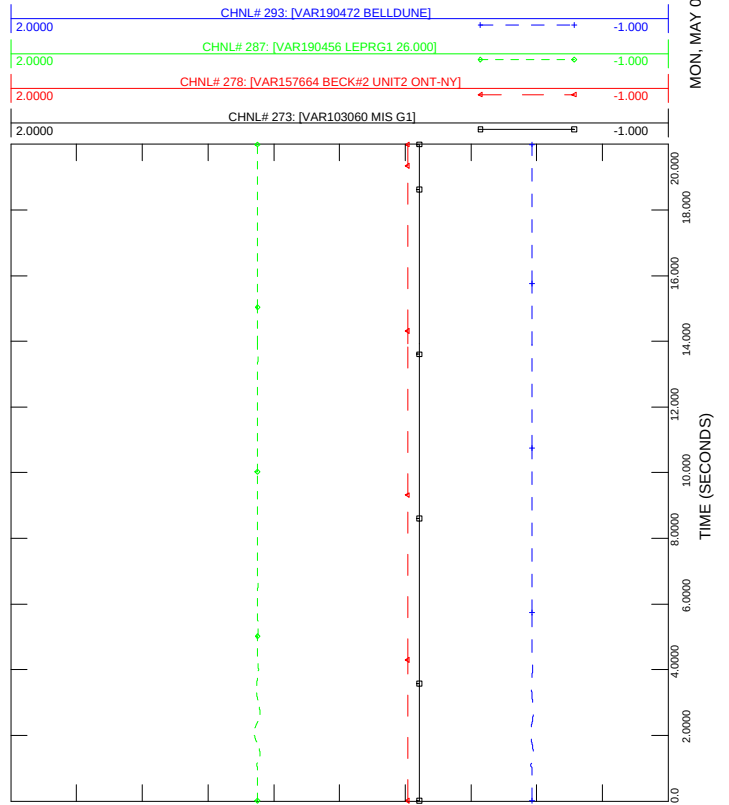
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ML VOLTAGE



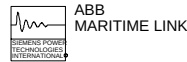
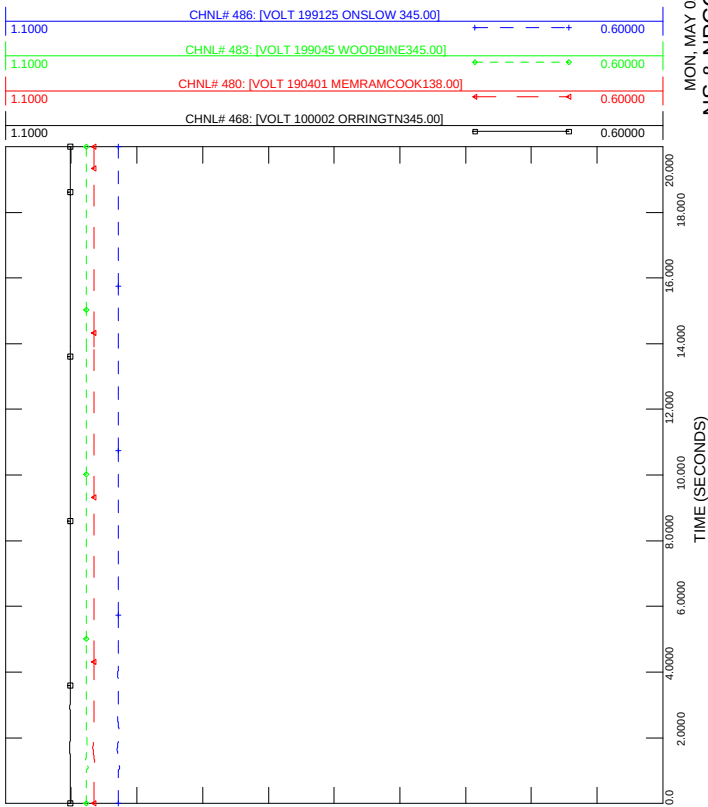
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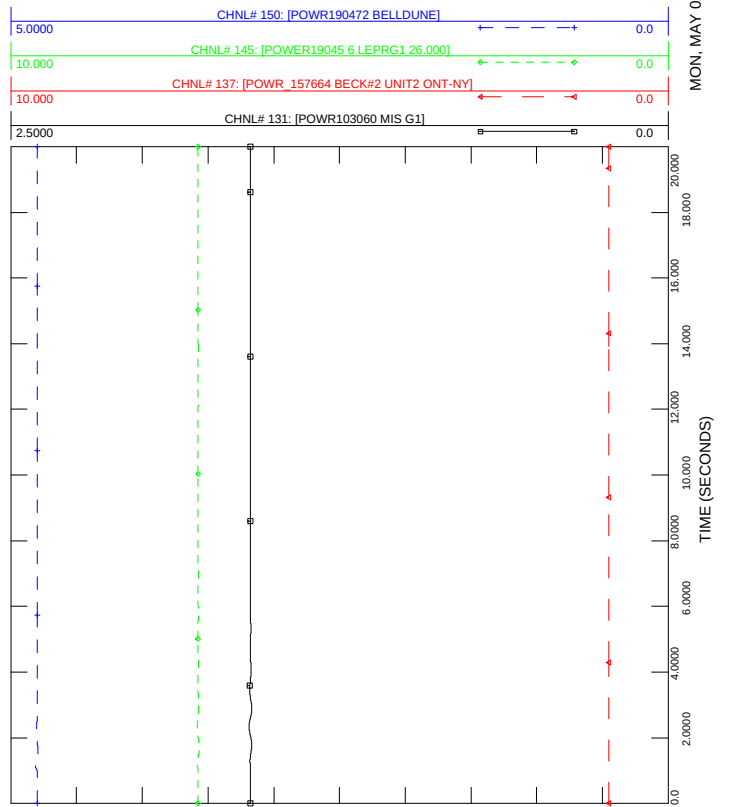
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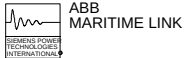
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NS & NPCC VOLTAGE



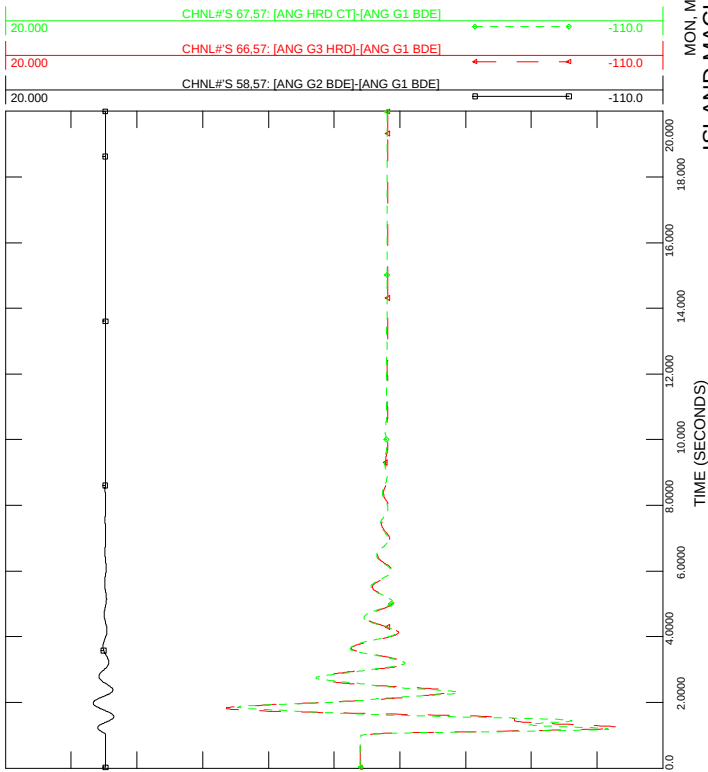
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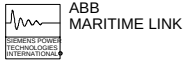
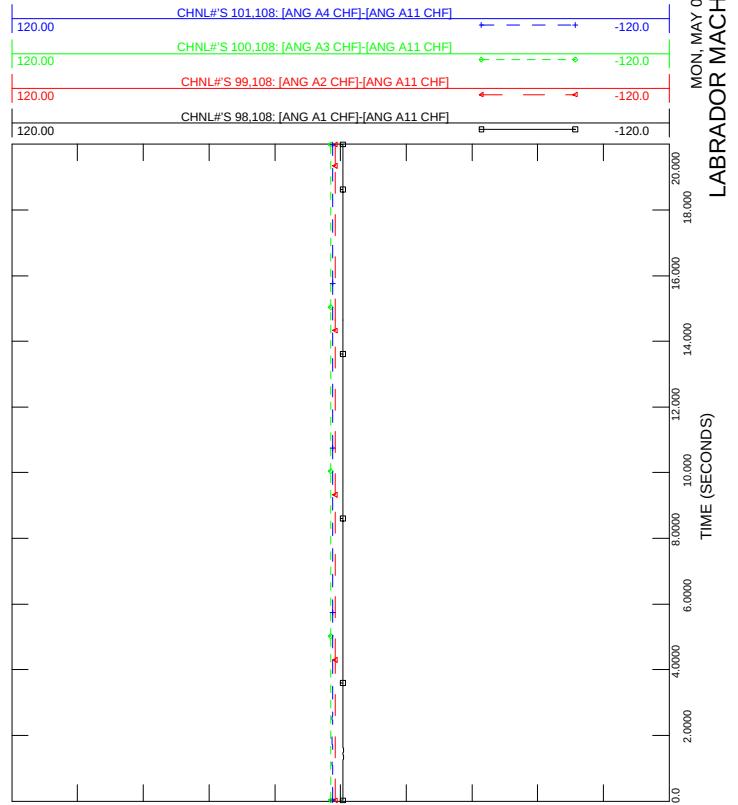




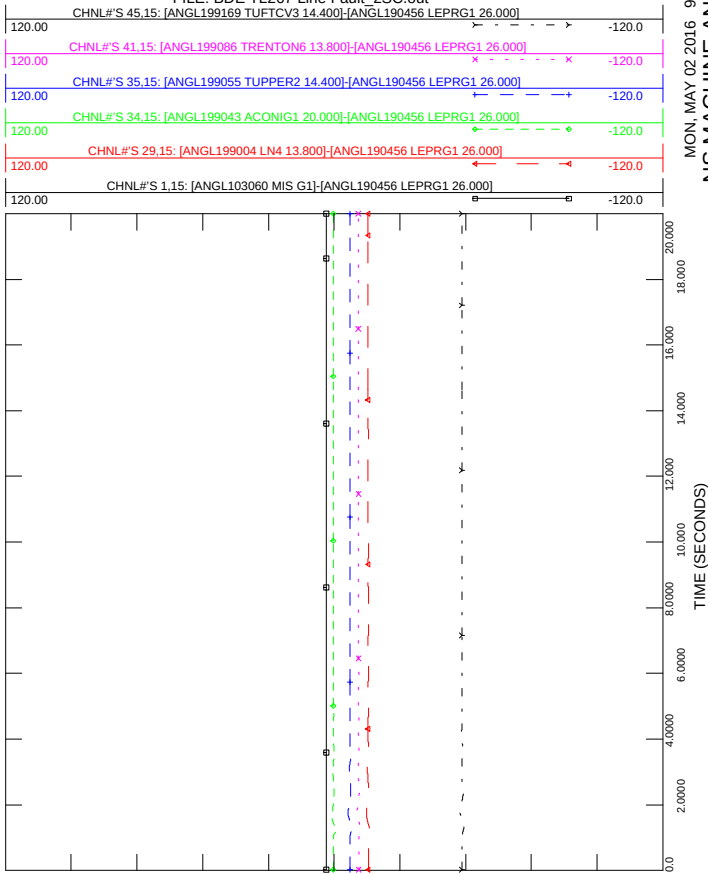
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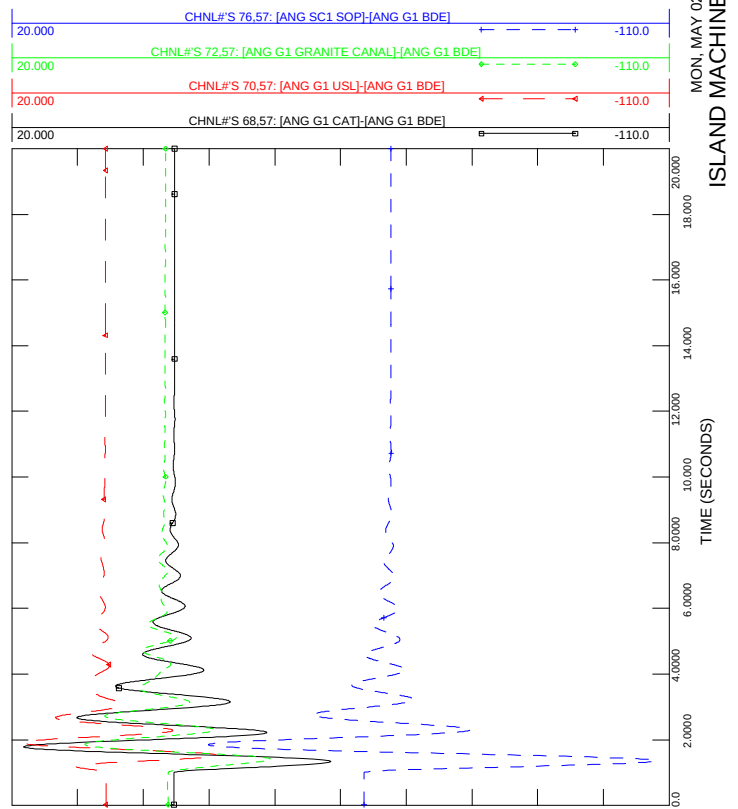
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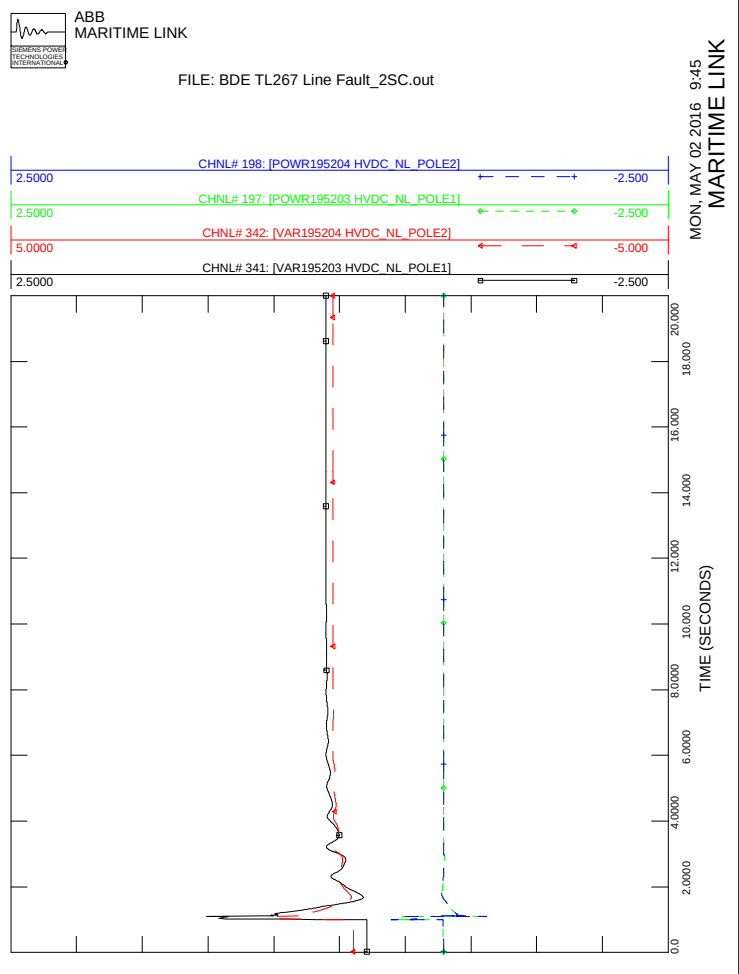
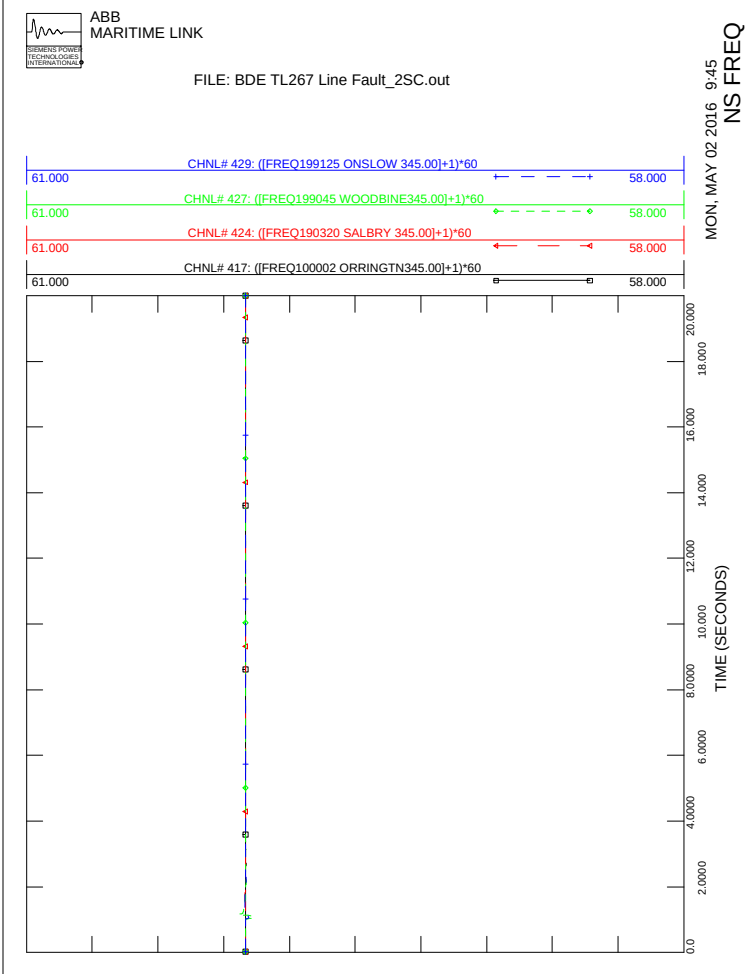
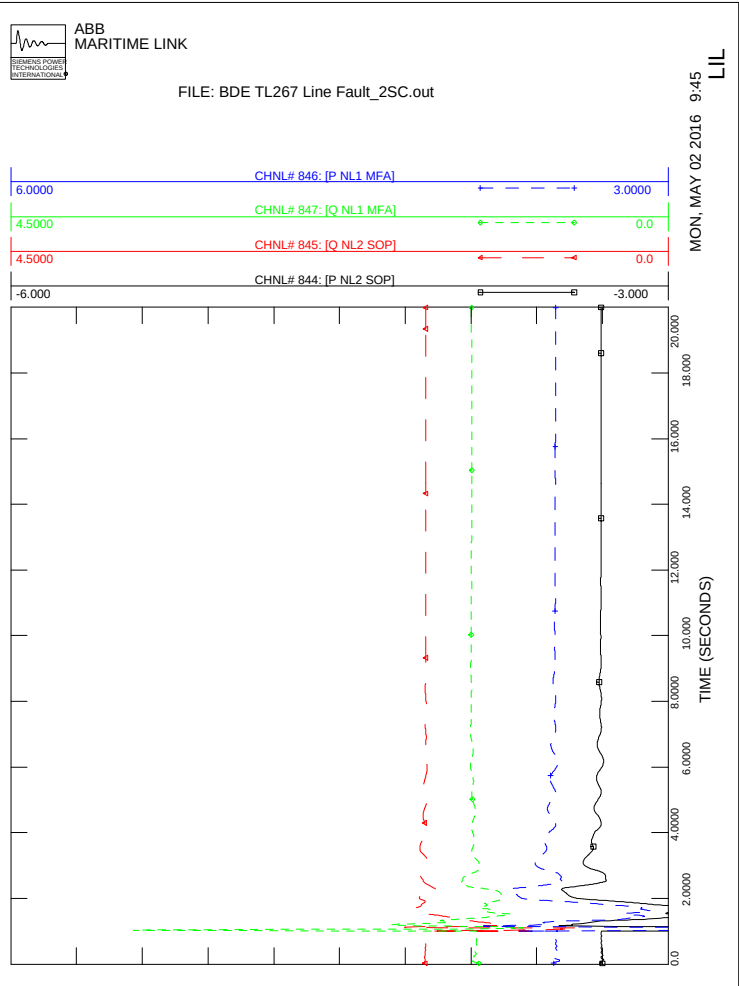
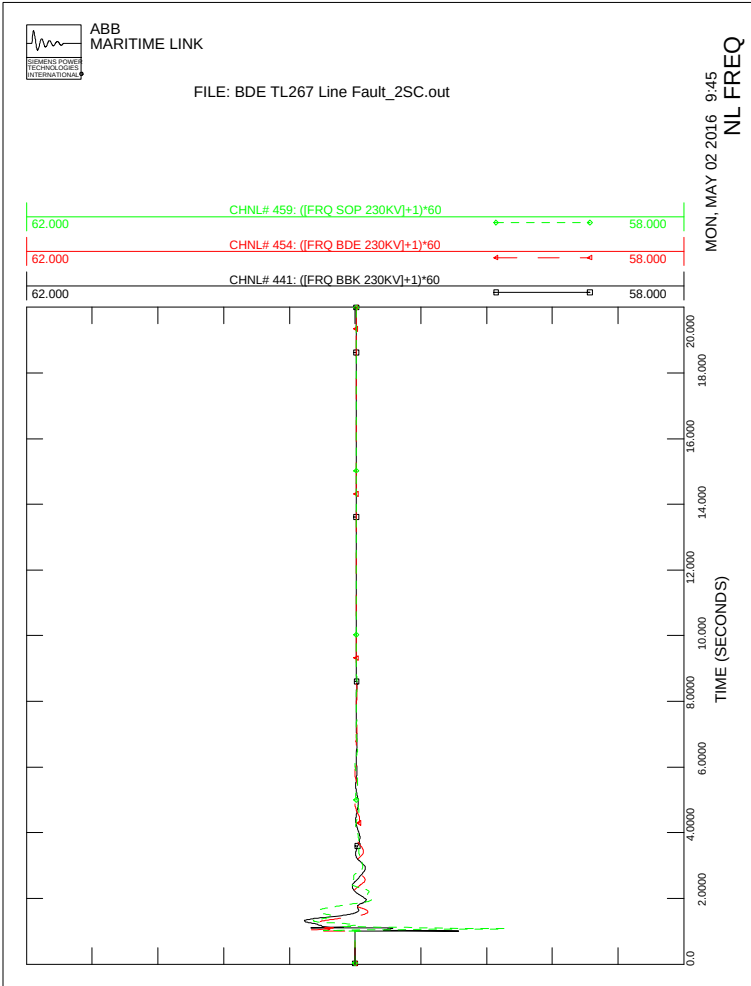


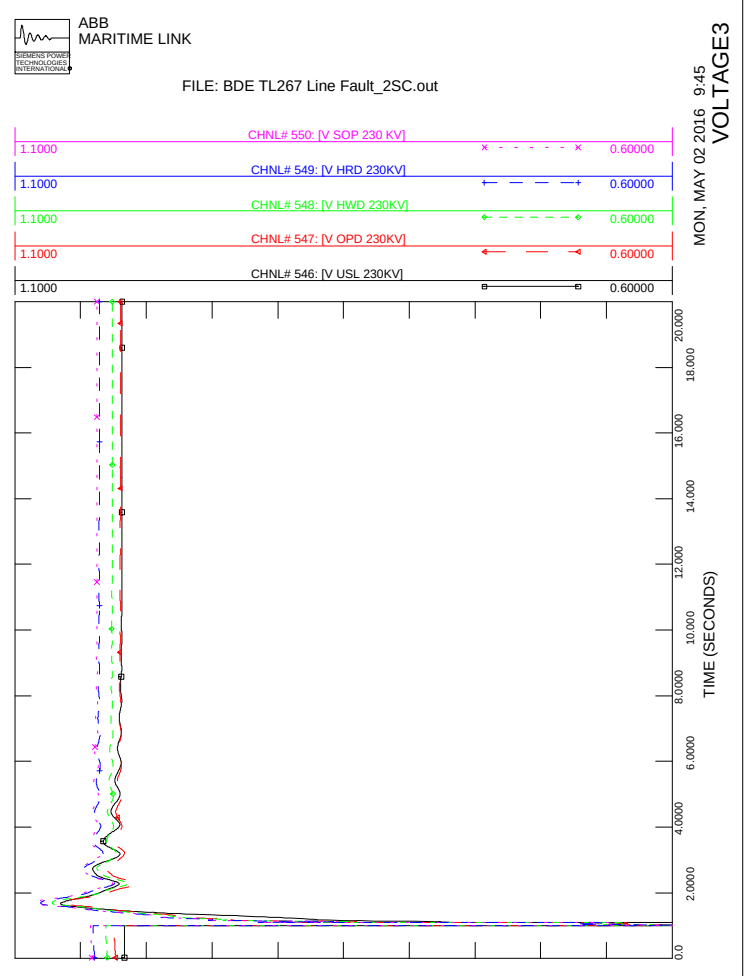
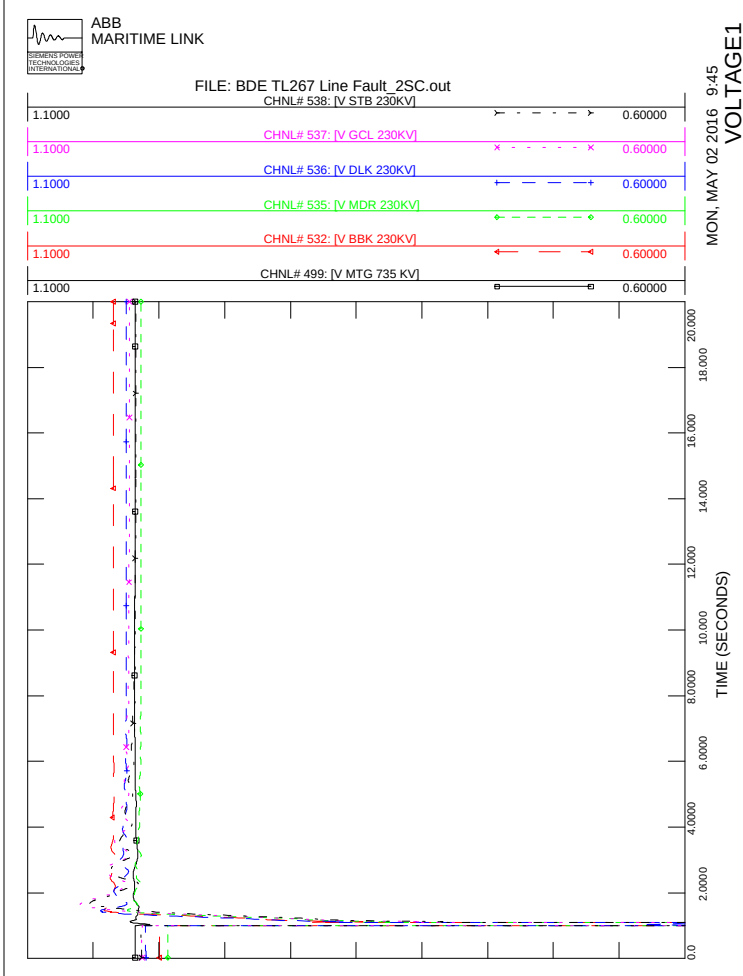
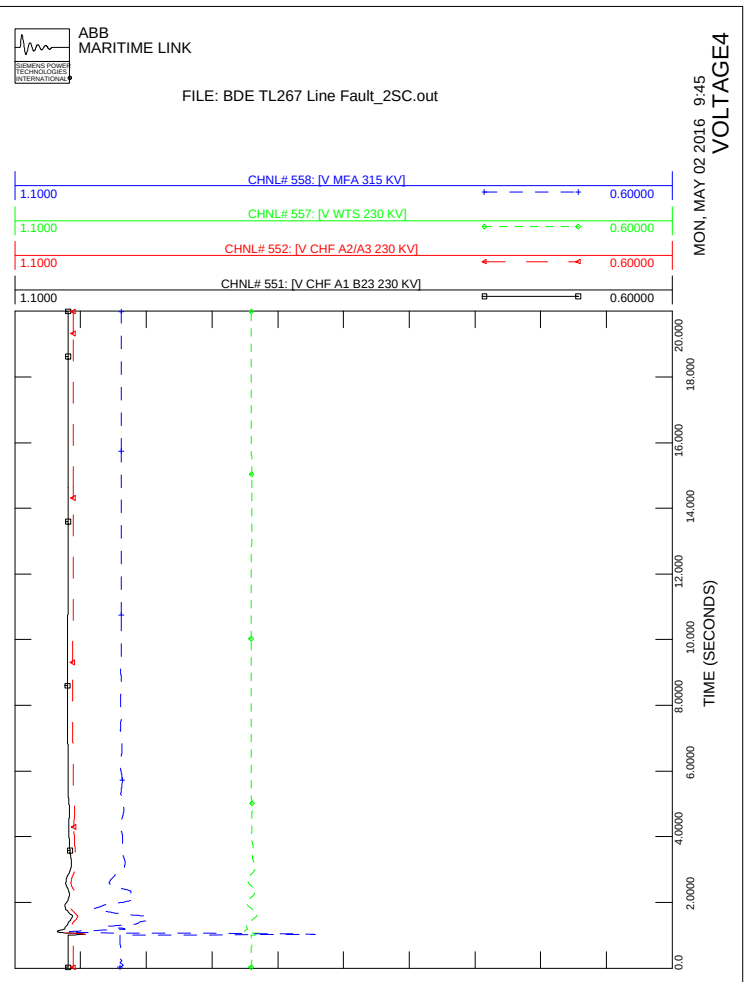
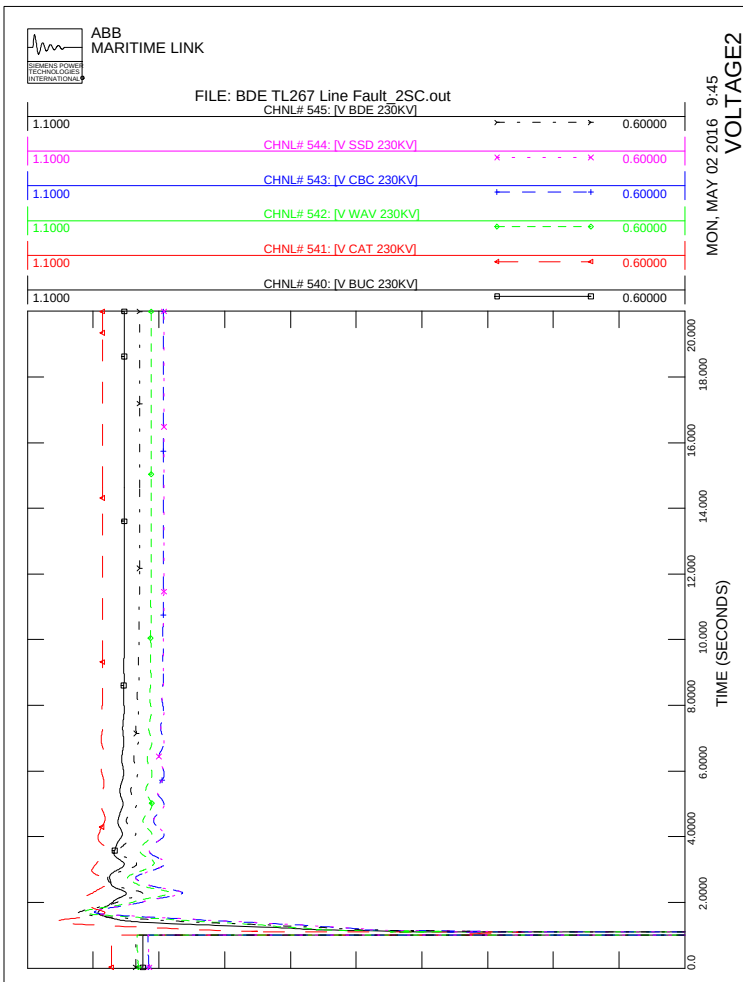
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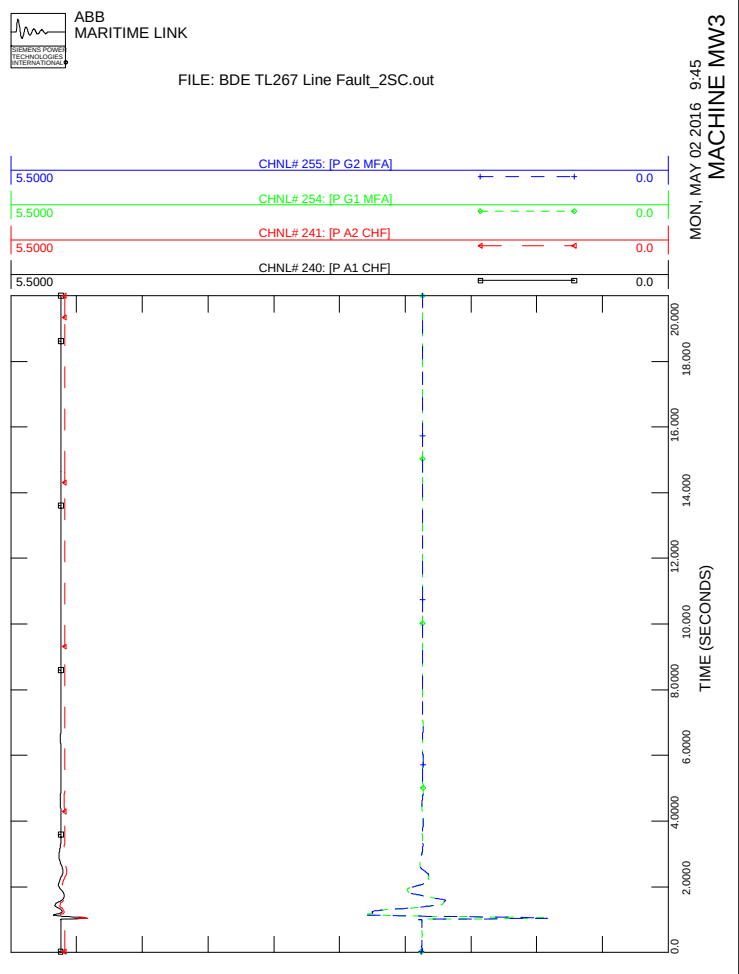
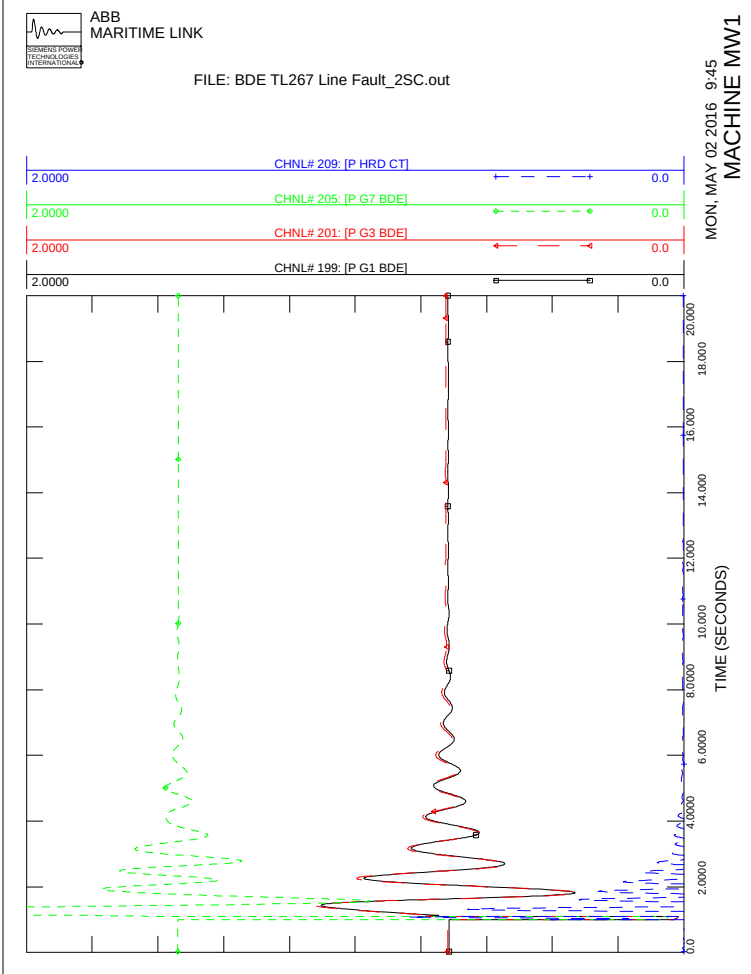
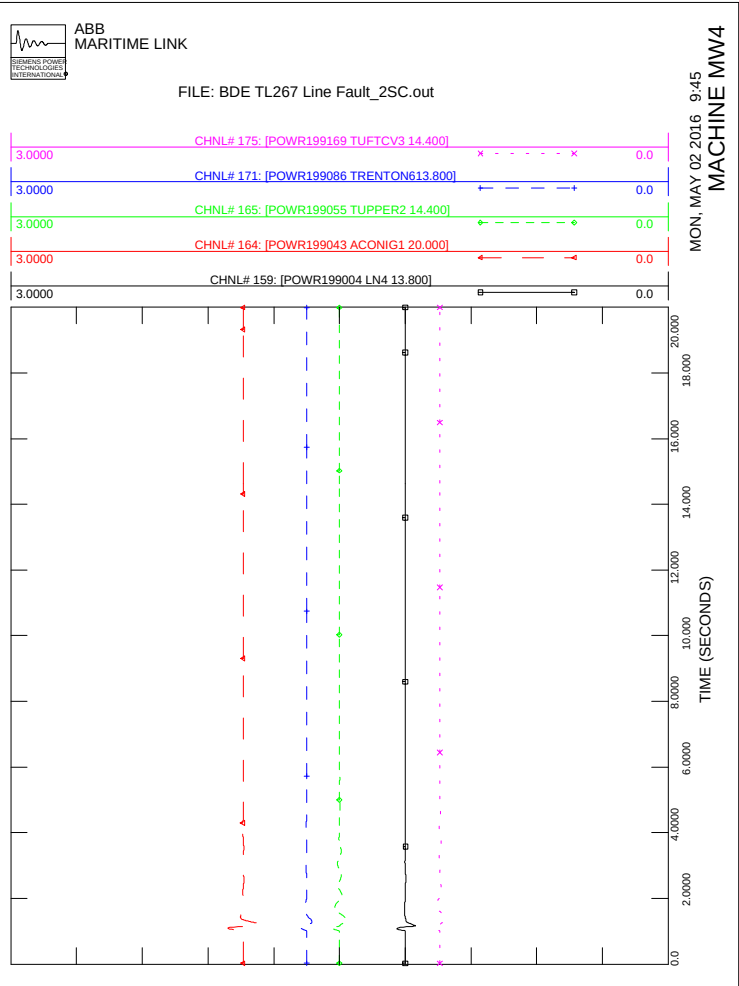
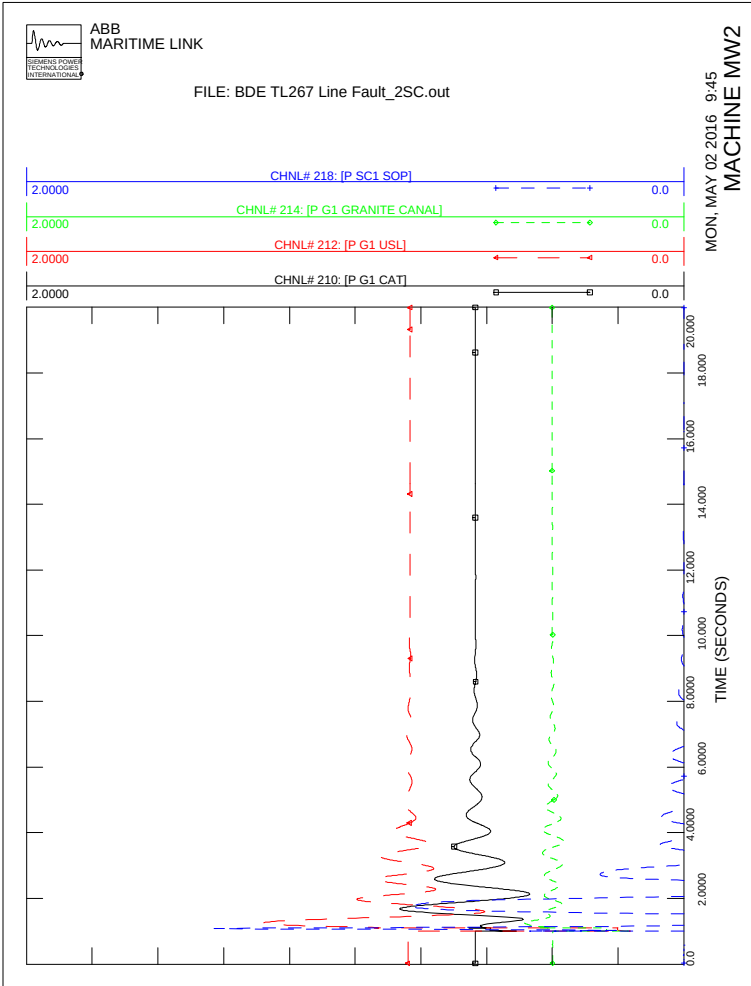


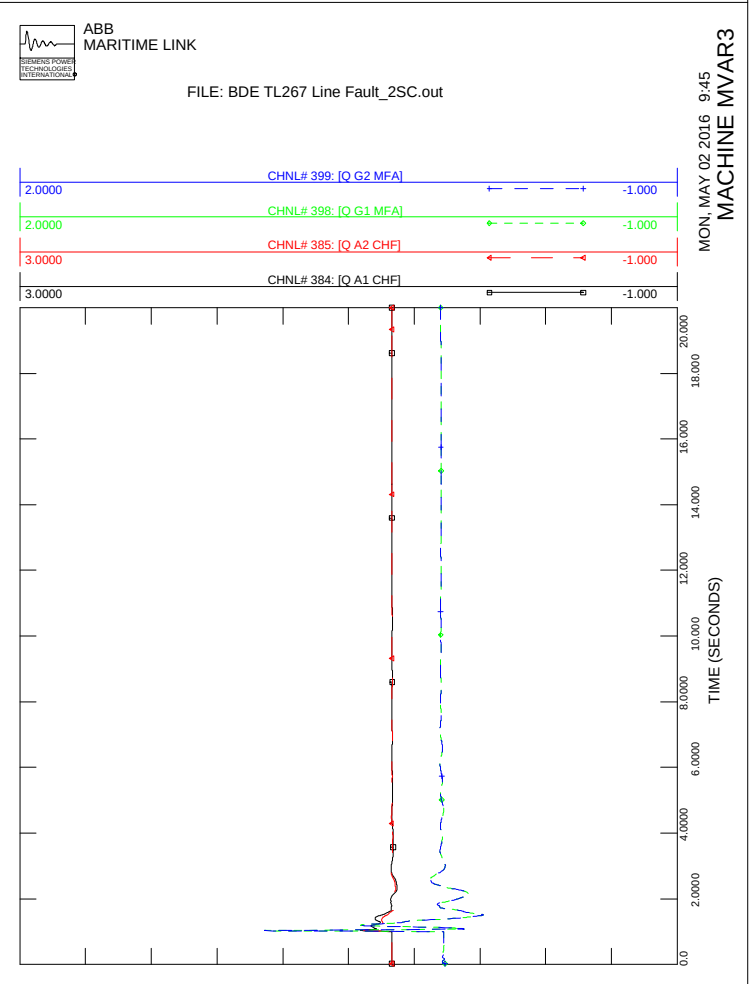
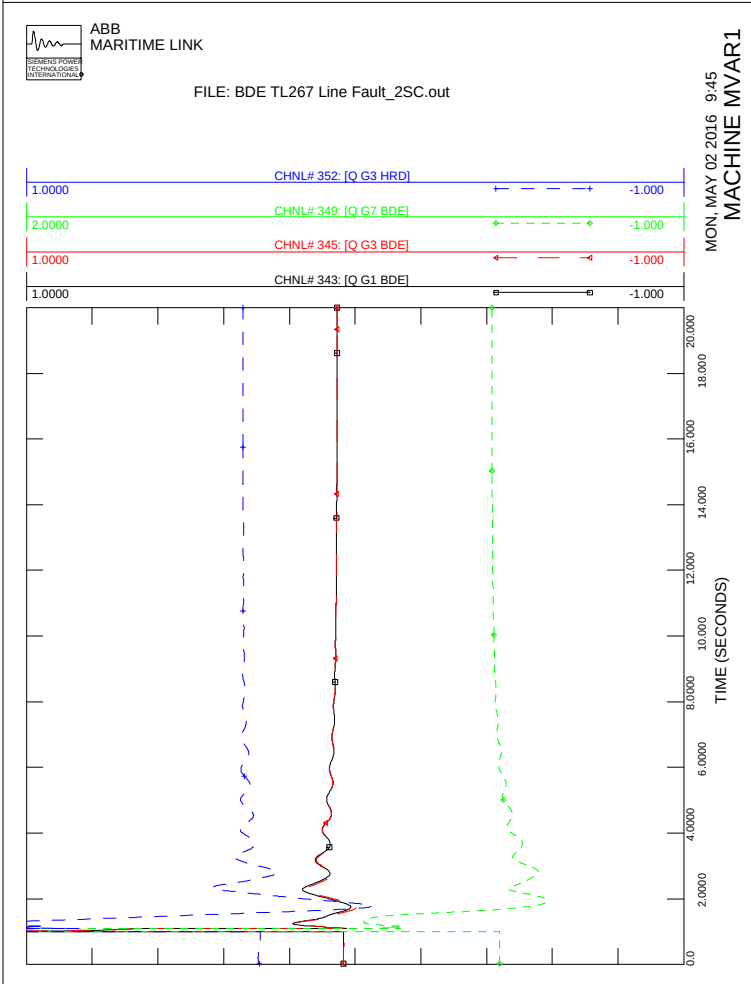
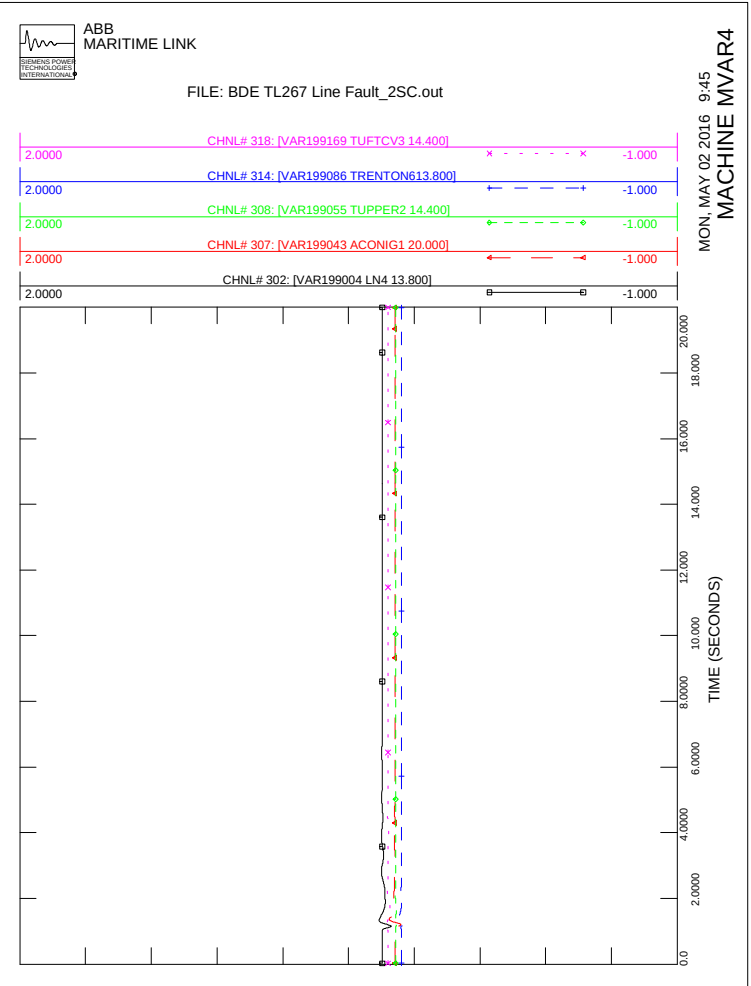
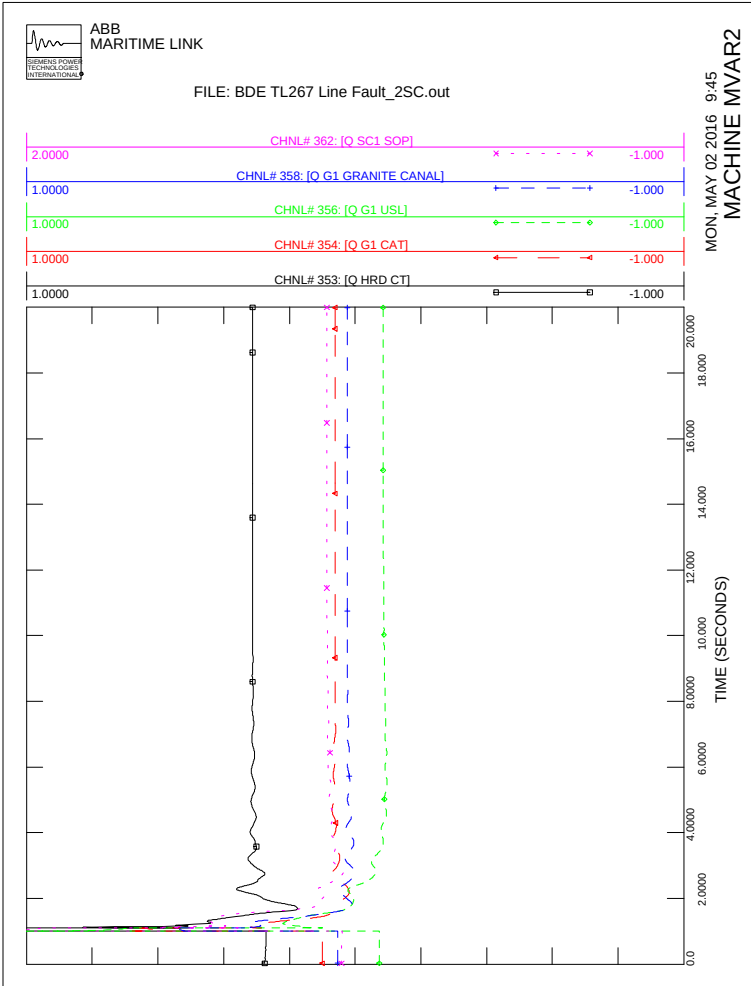
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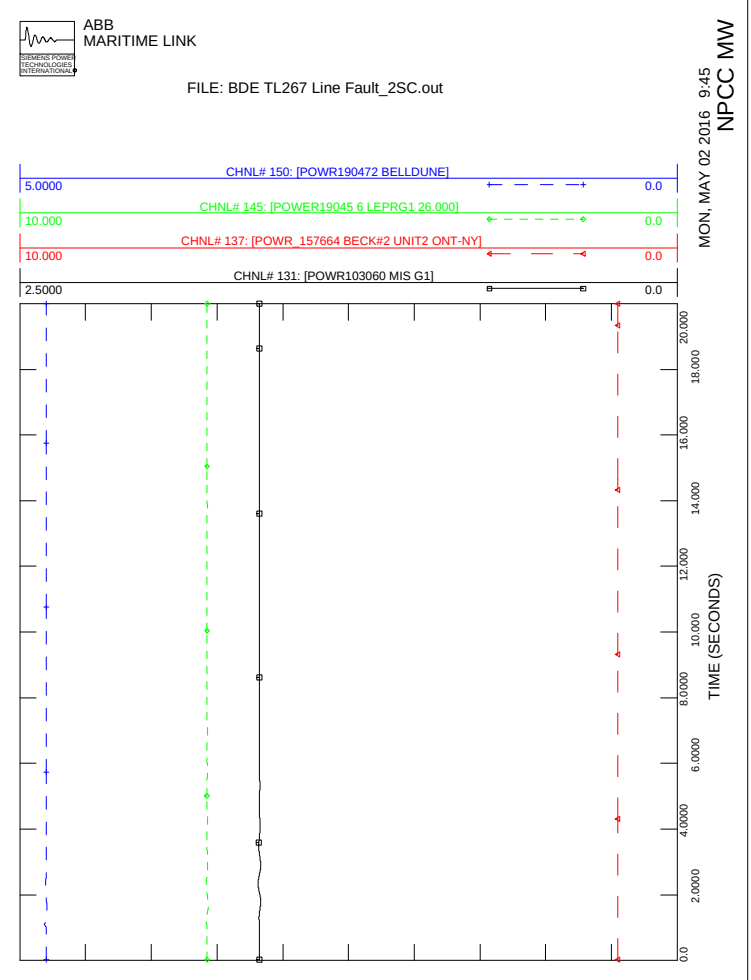
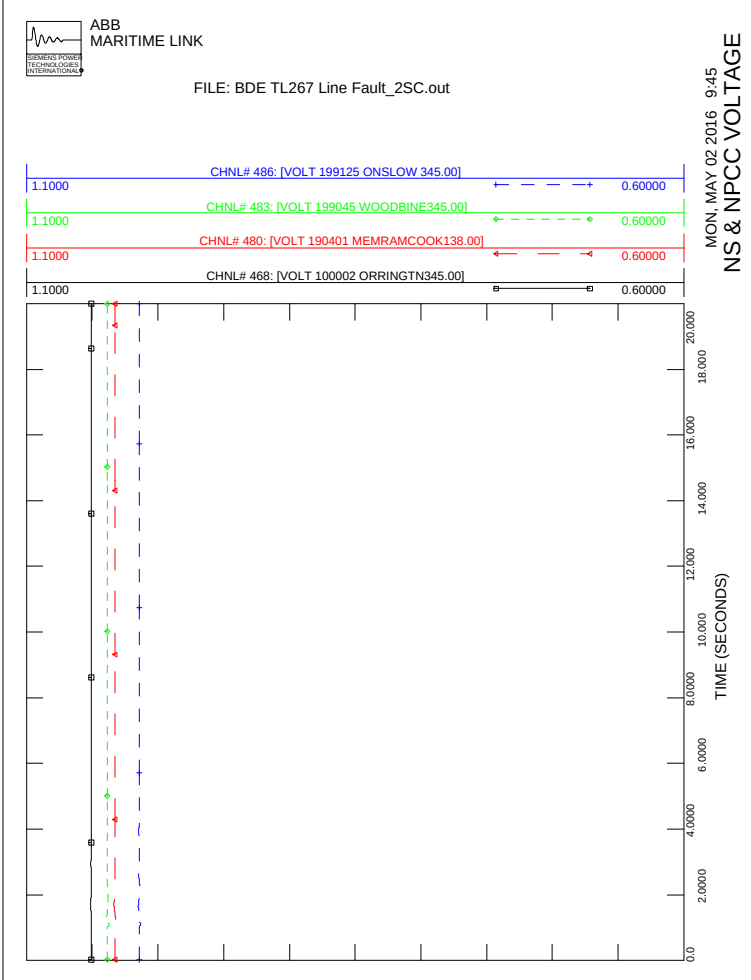
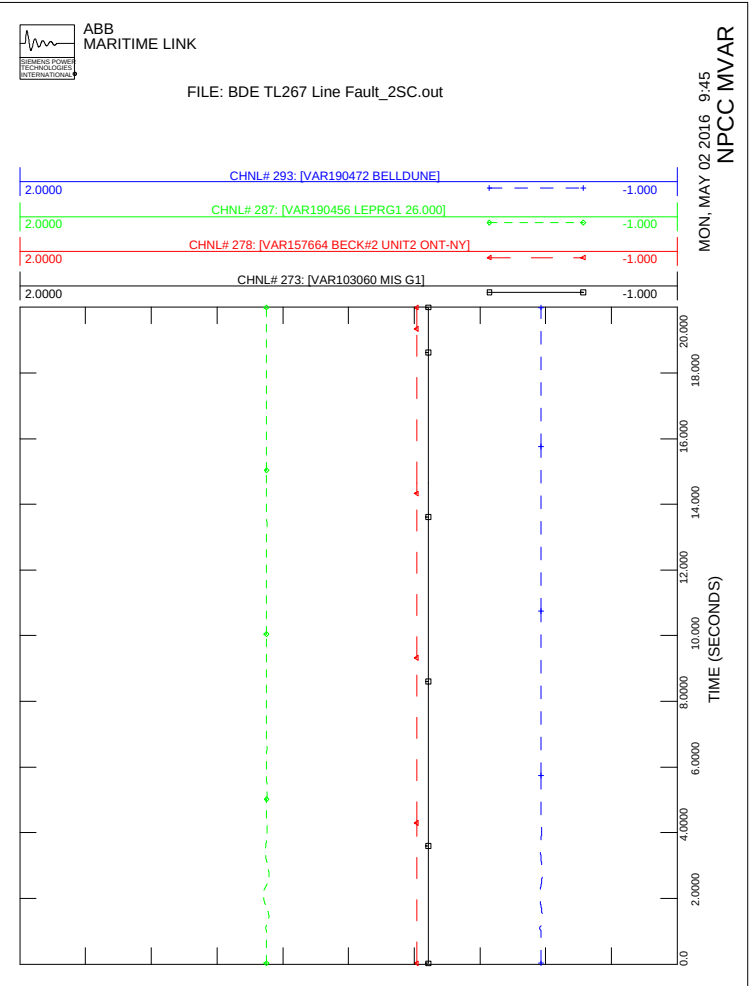
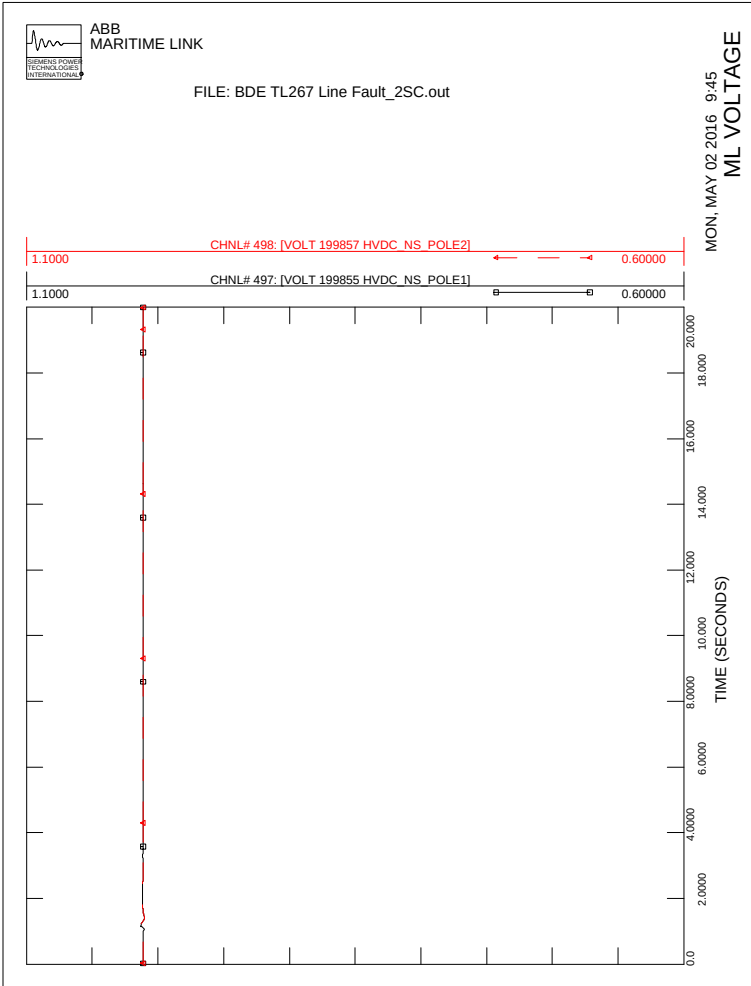


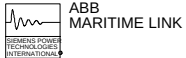




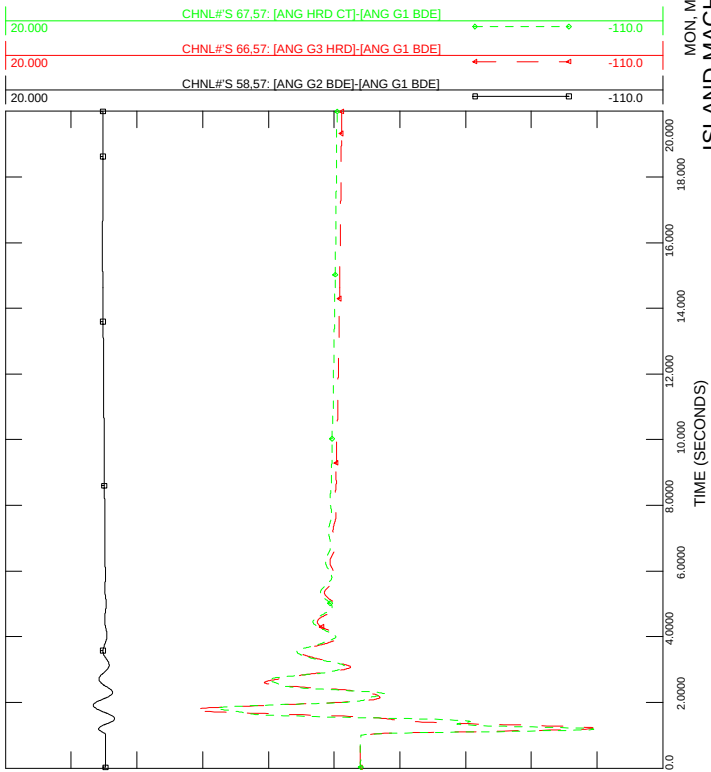




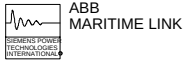
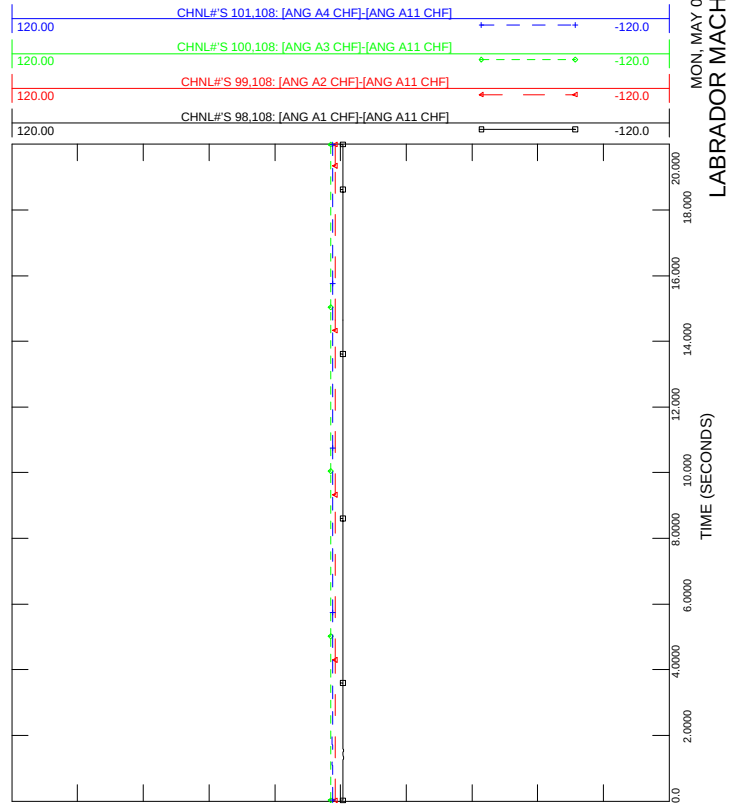




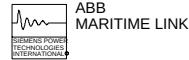
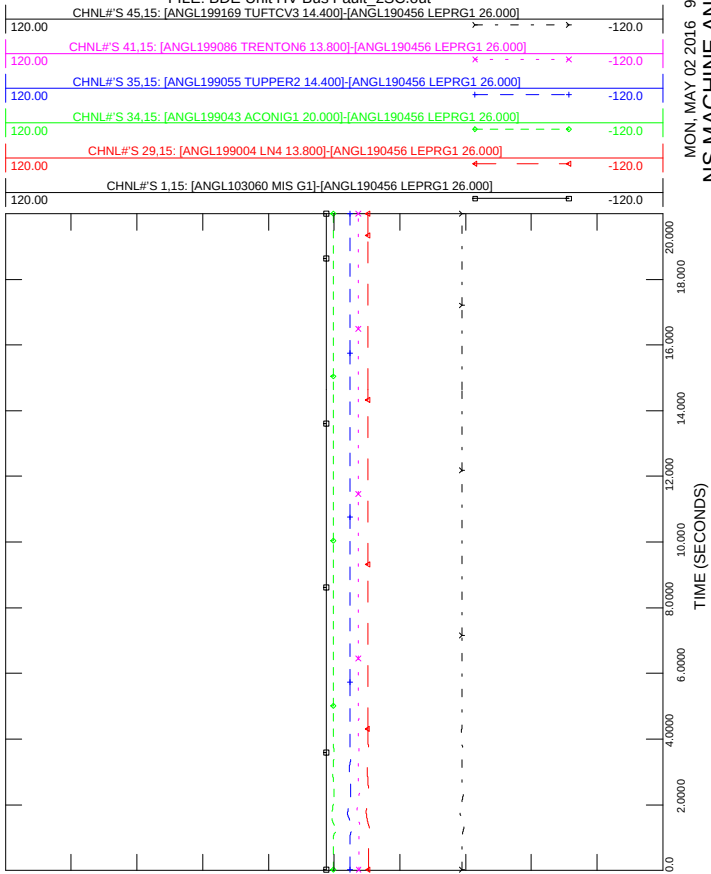
FILE: BDE Unit HV Bus Fault_2SC.out



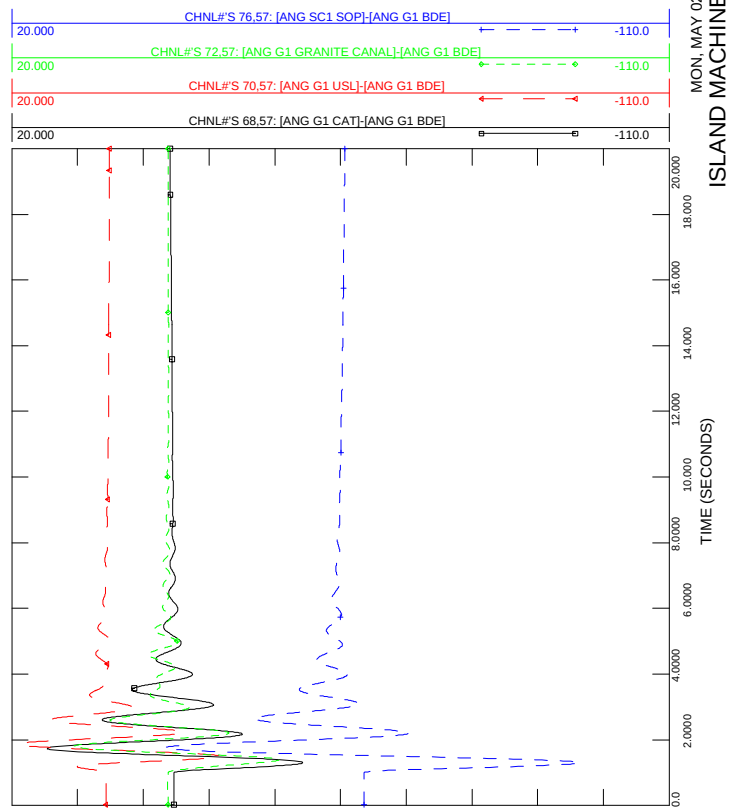
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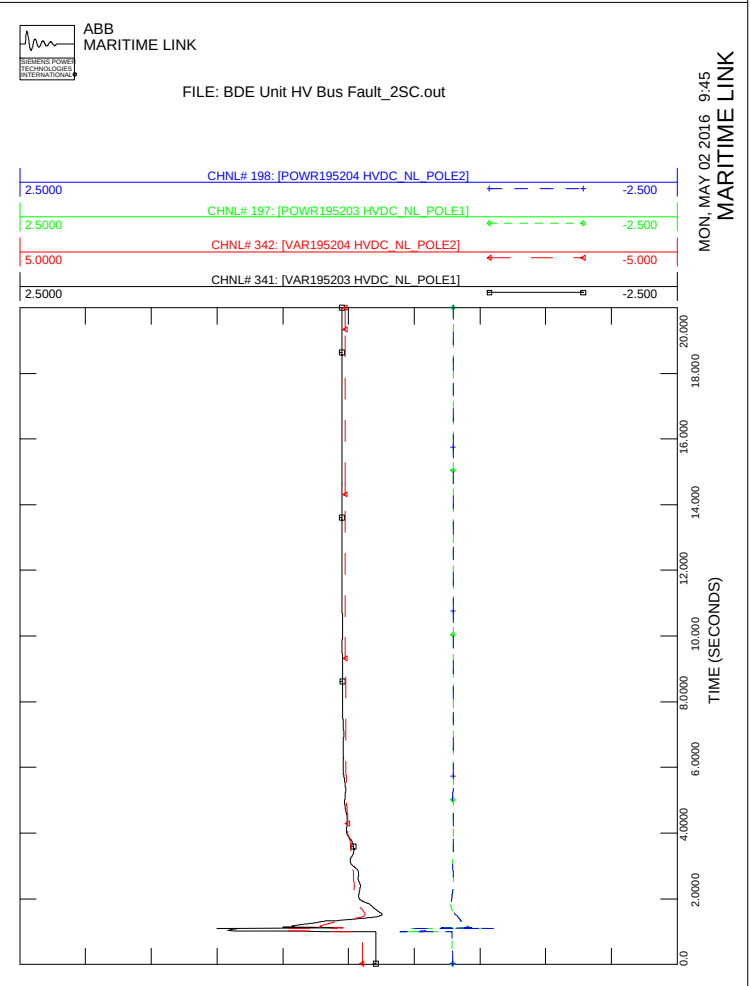
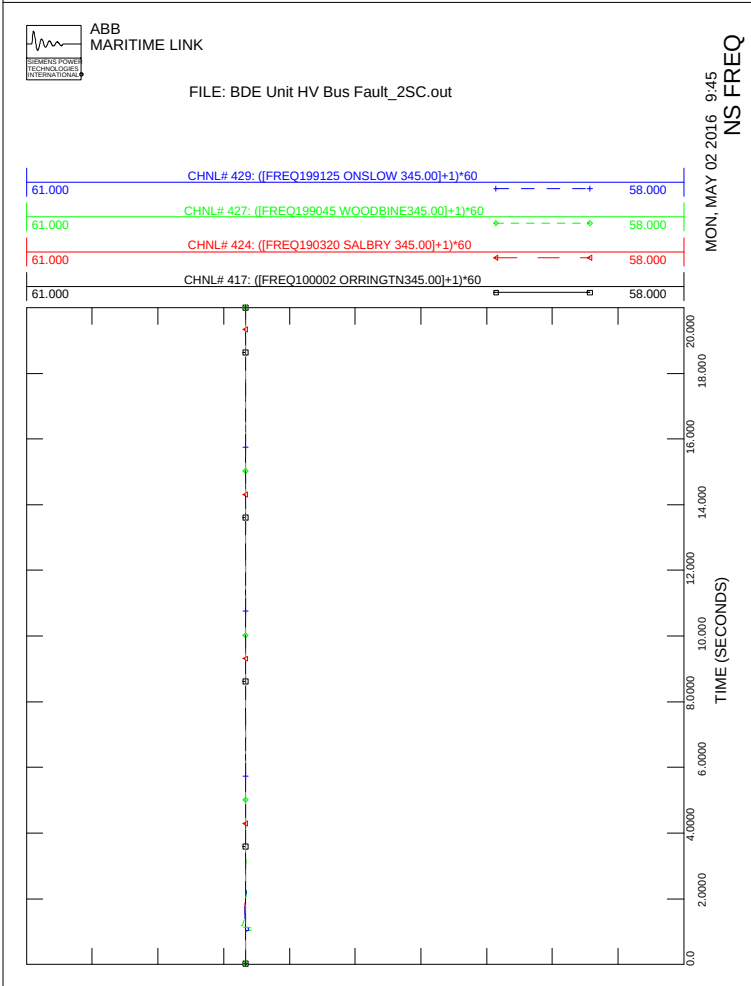
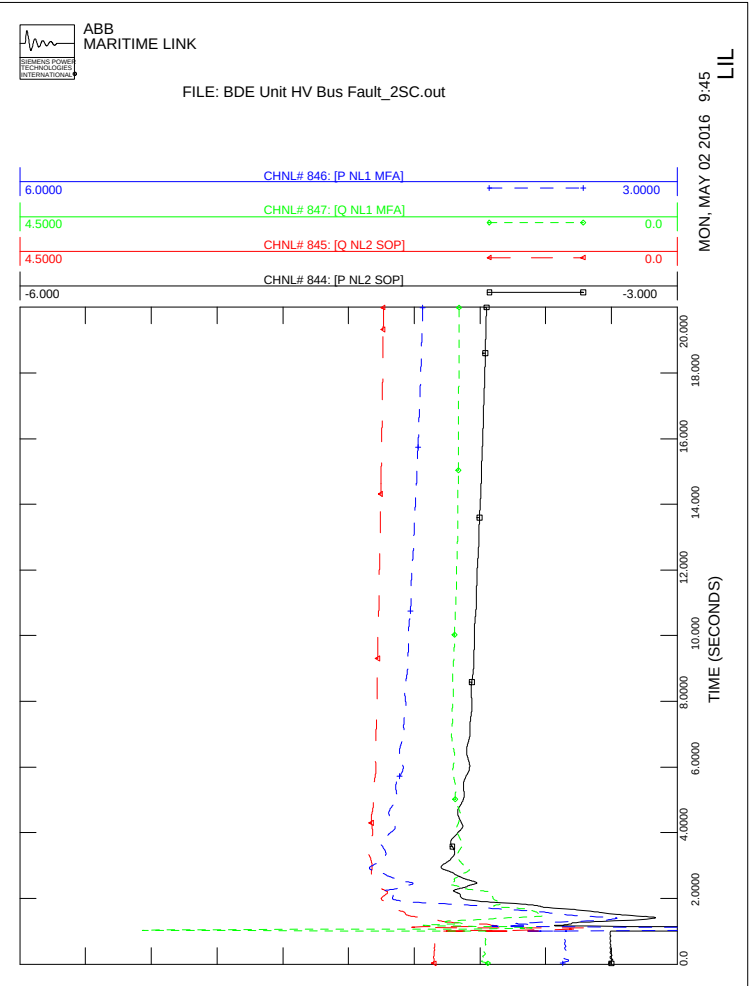
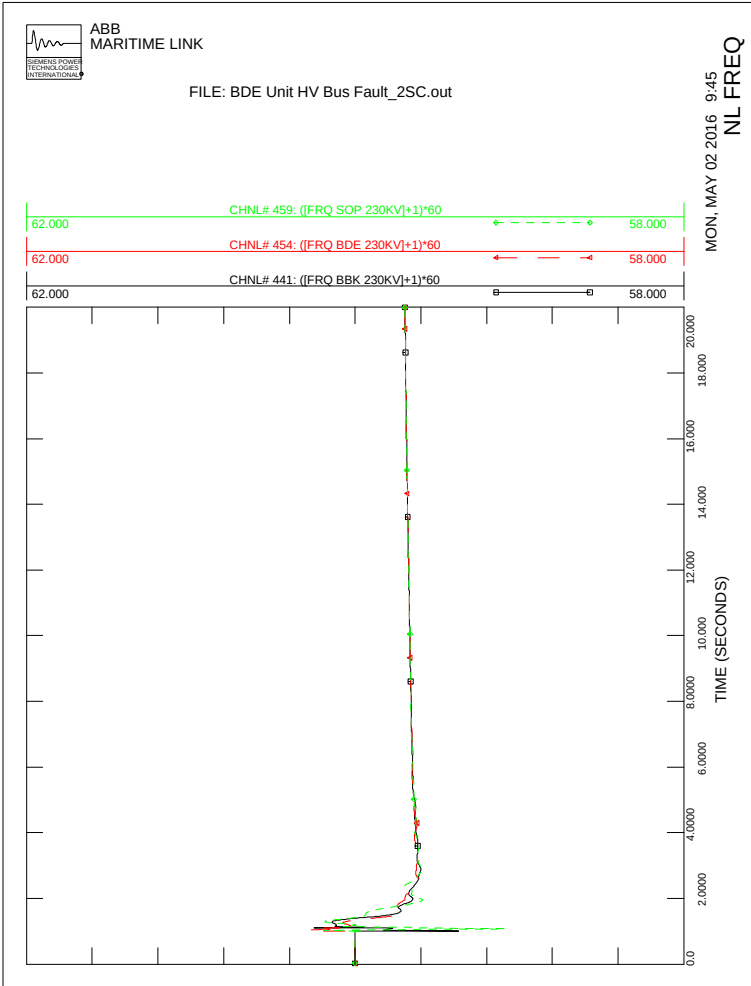


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FILE: BDE Unit HV Bus Fault_2SC.out





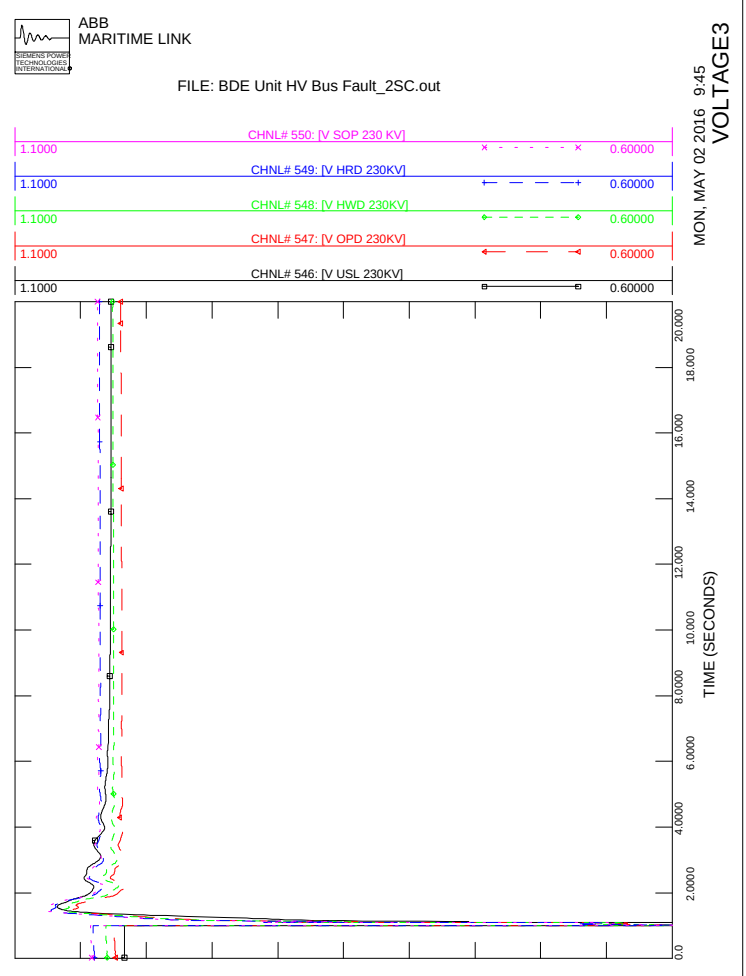
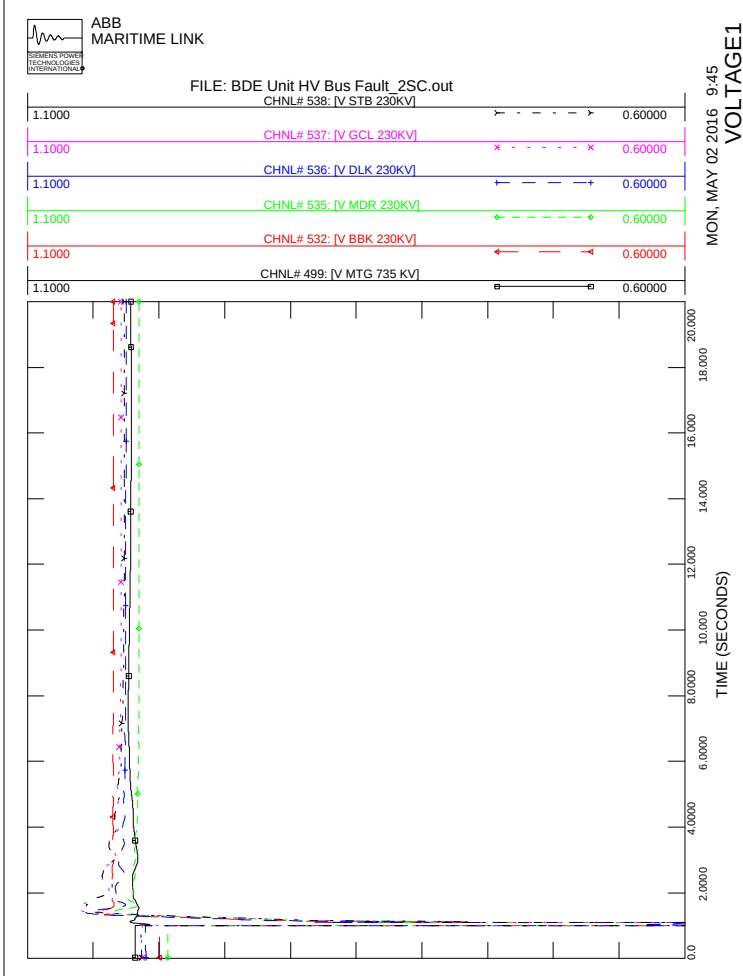
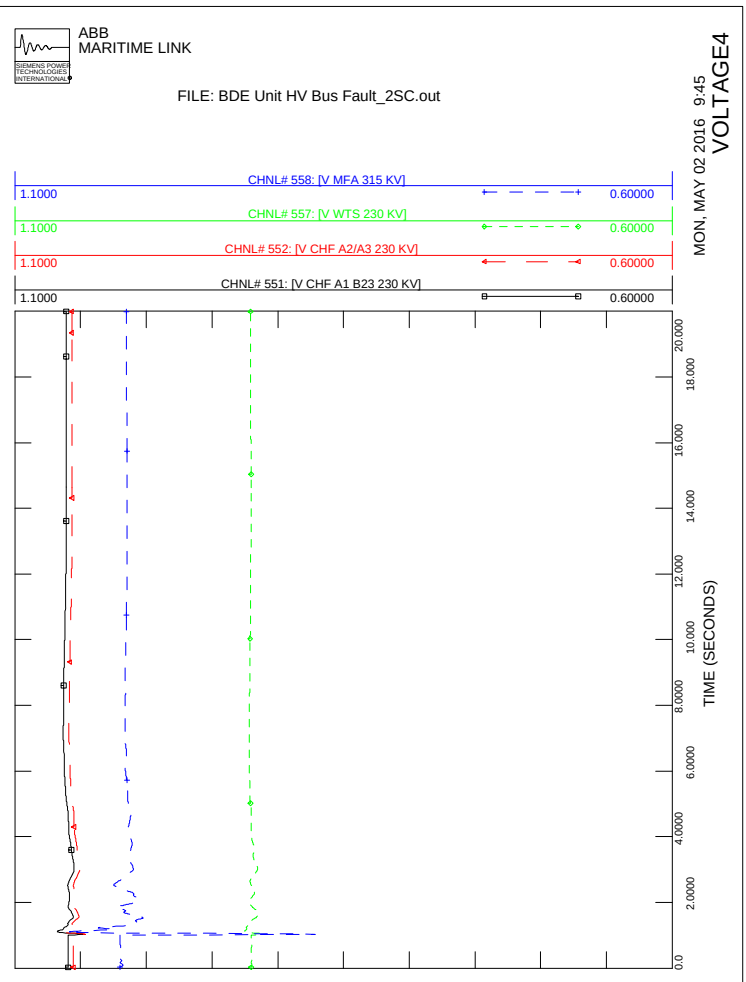
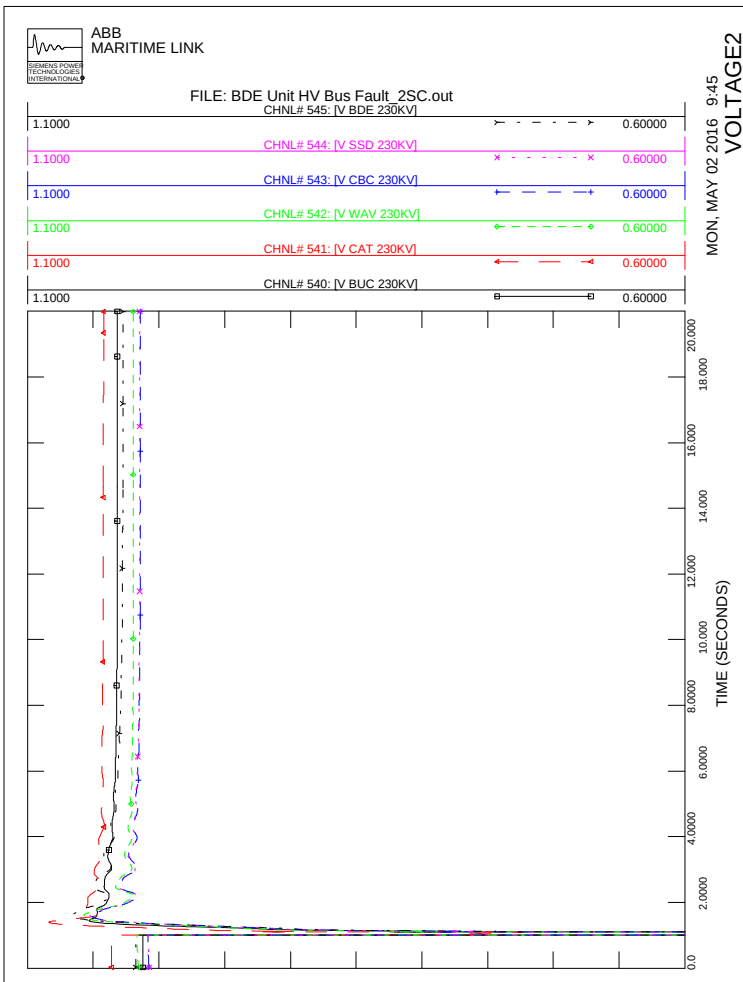
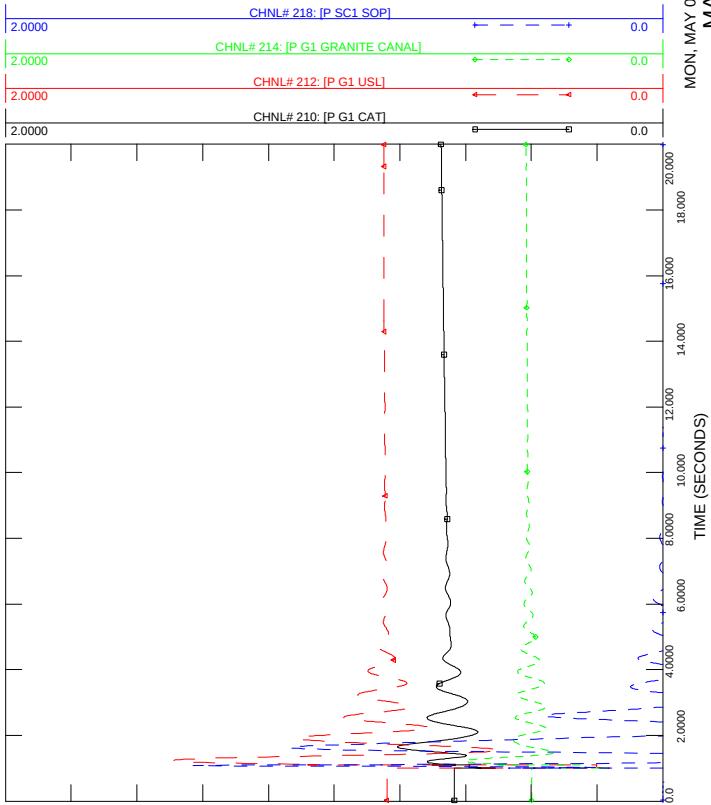
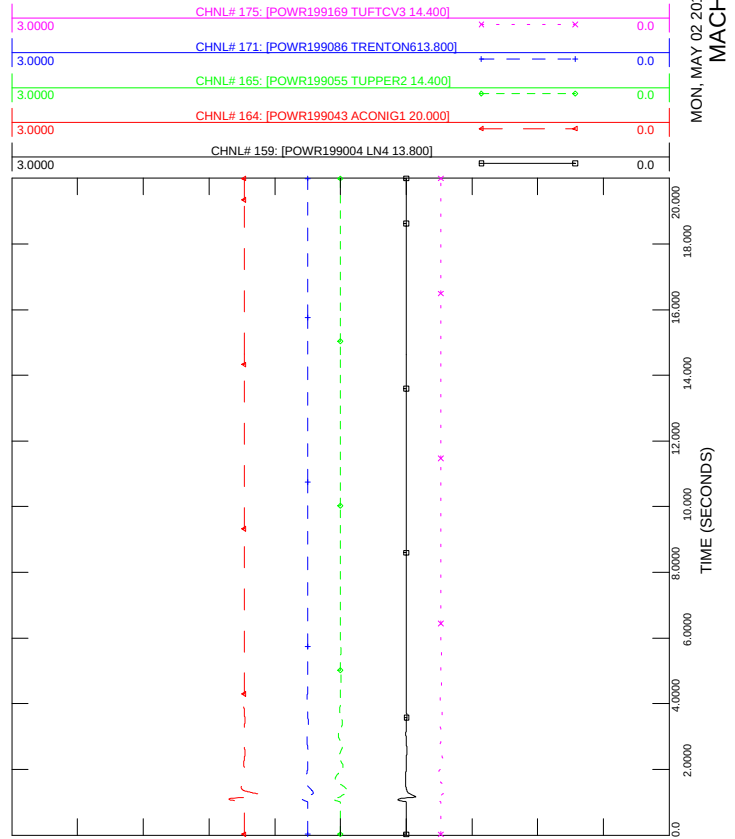


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MARITIME LINK

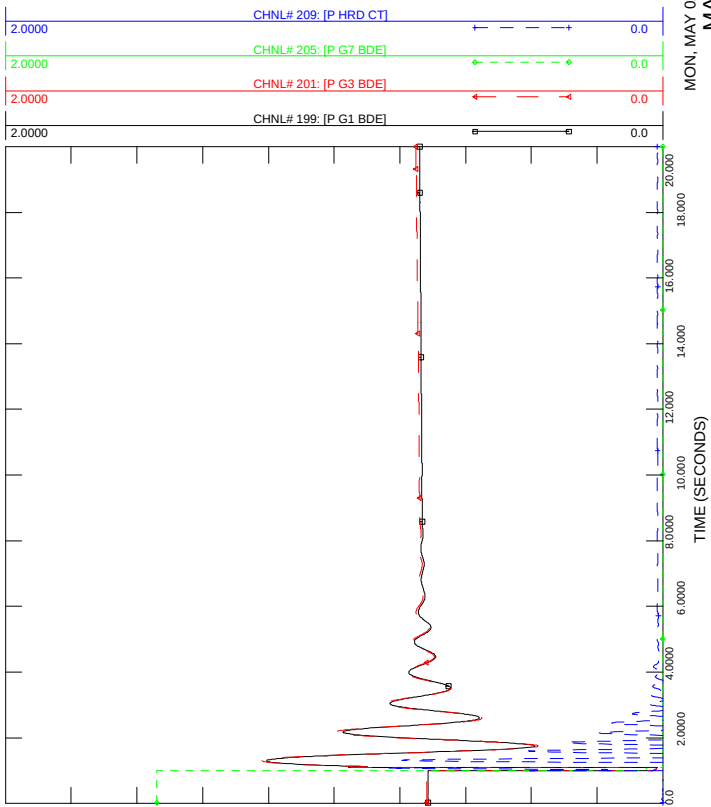
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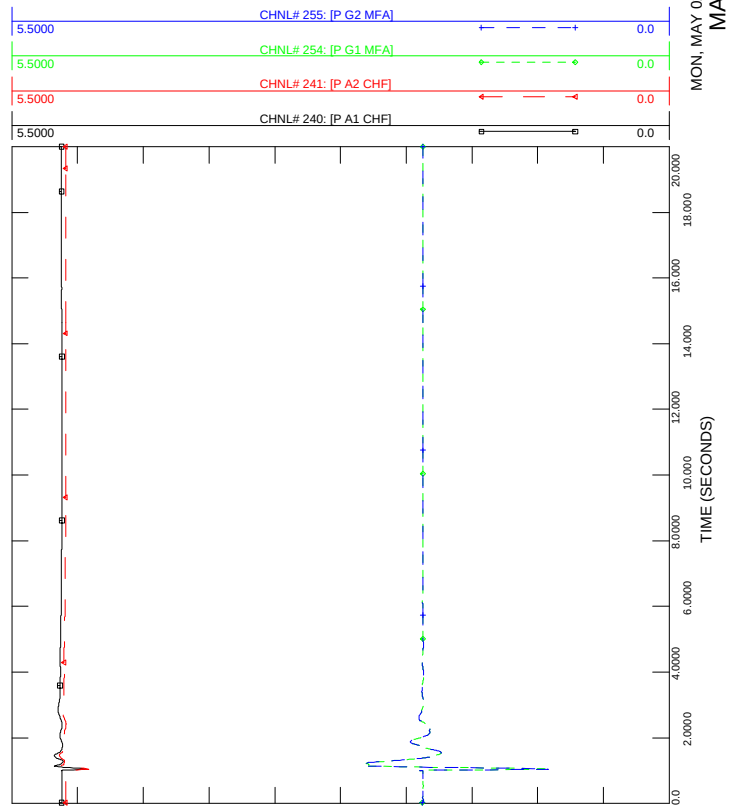
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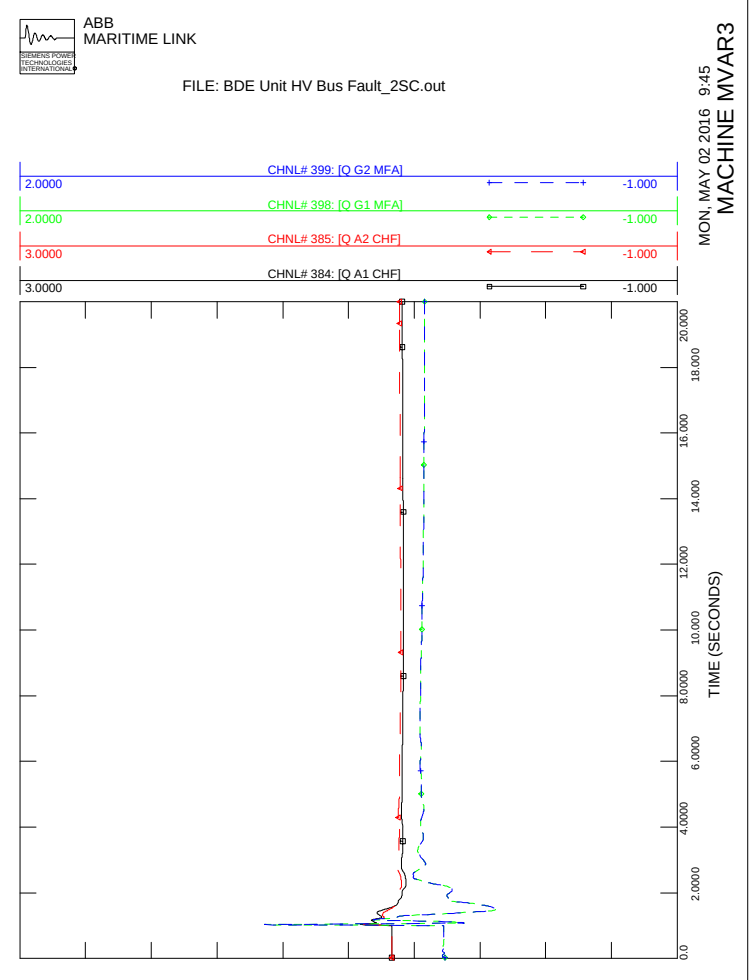
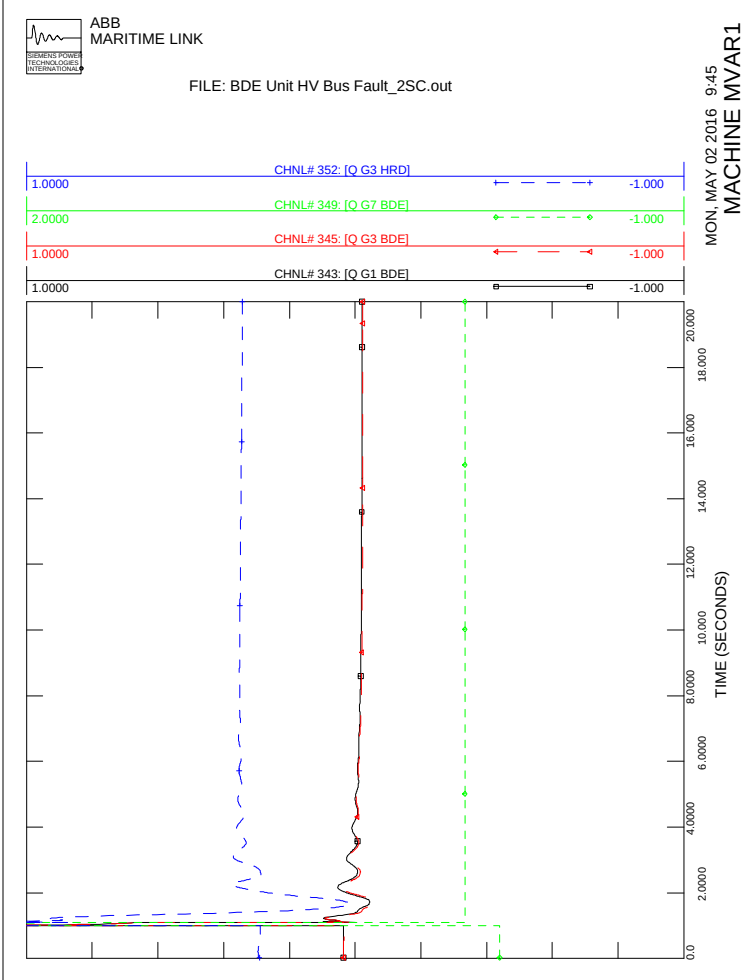
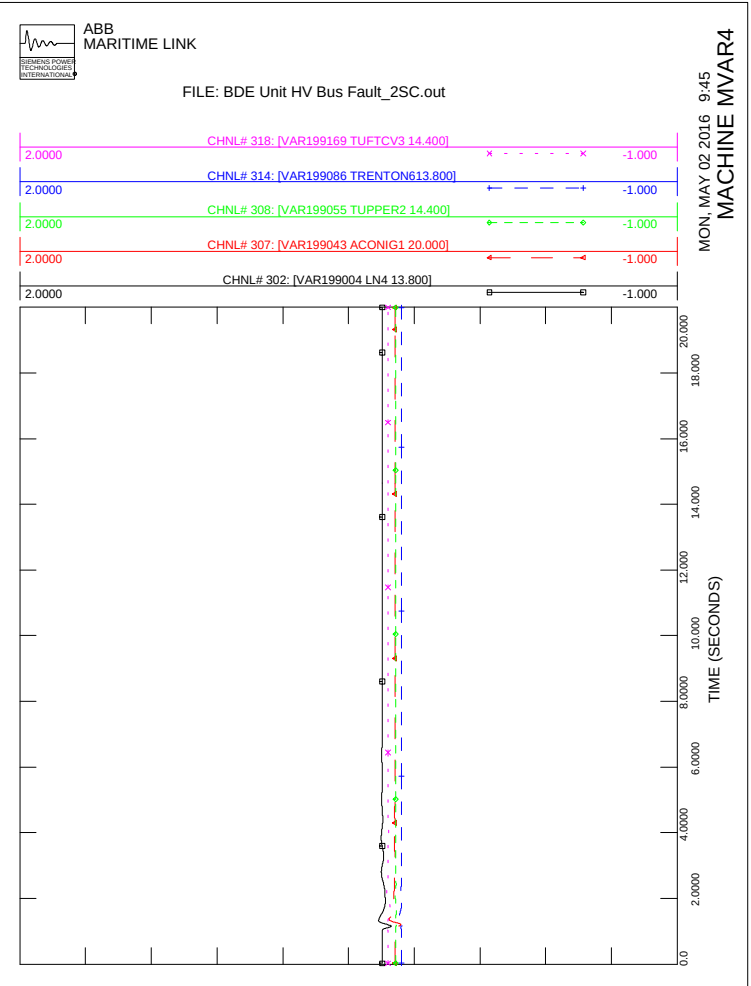
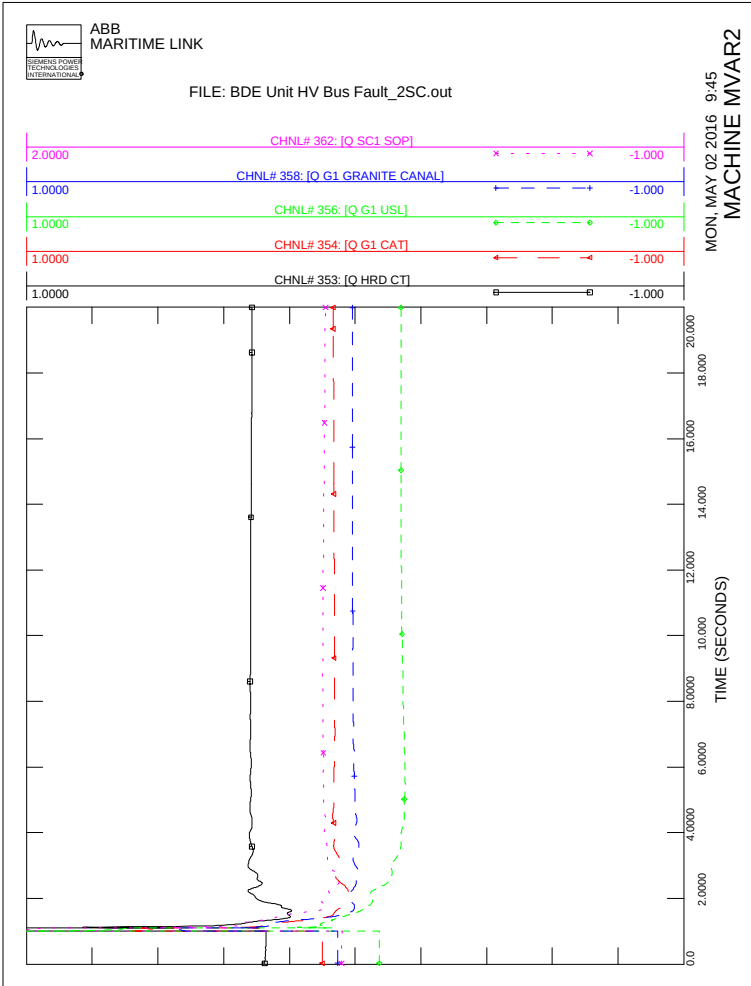
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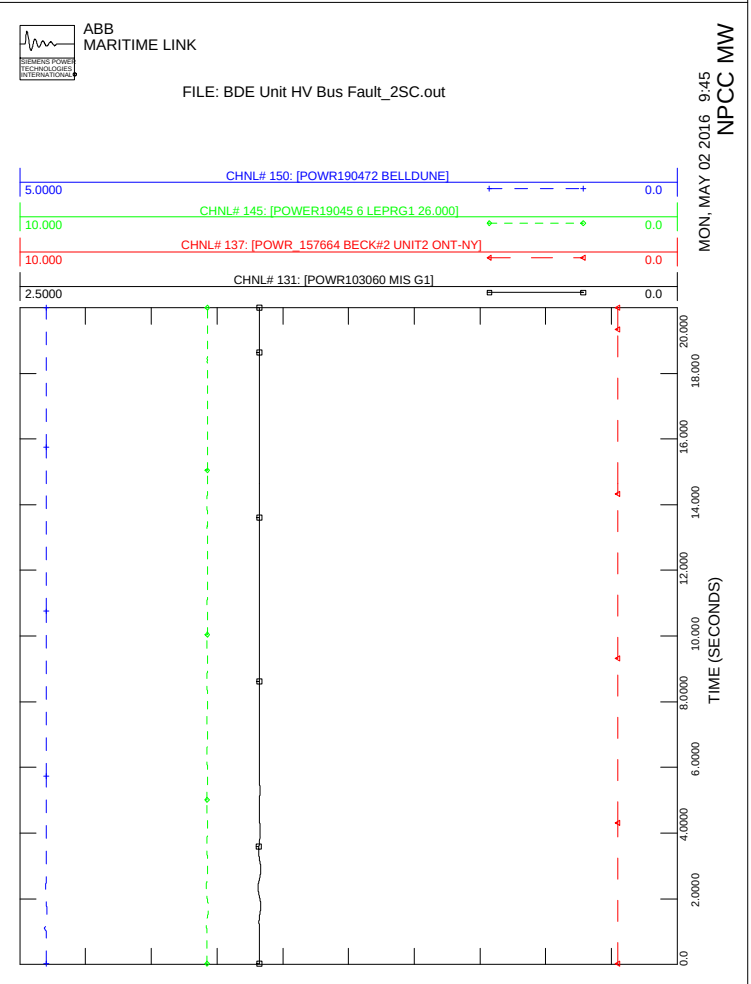
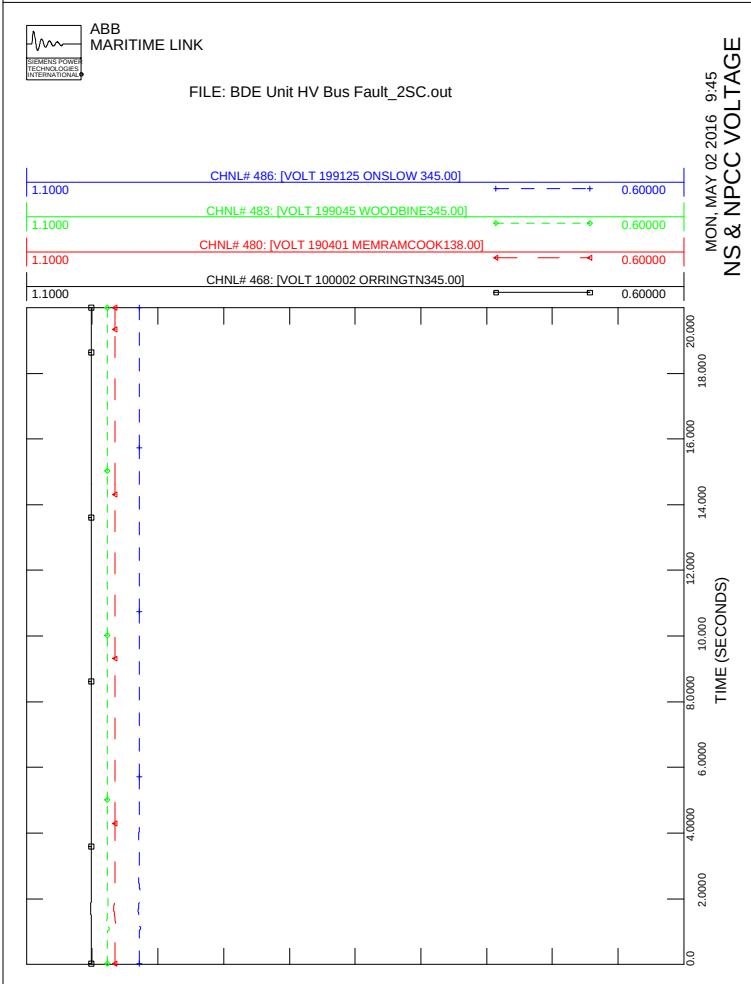
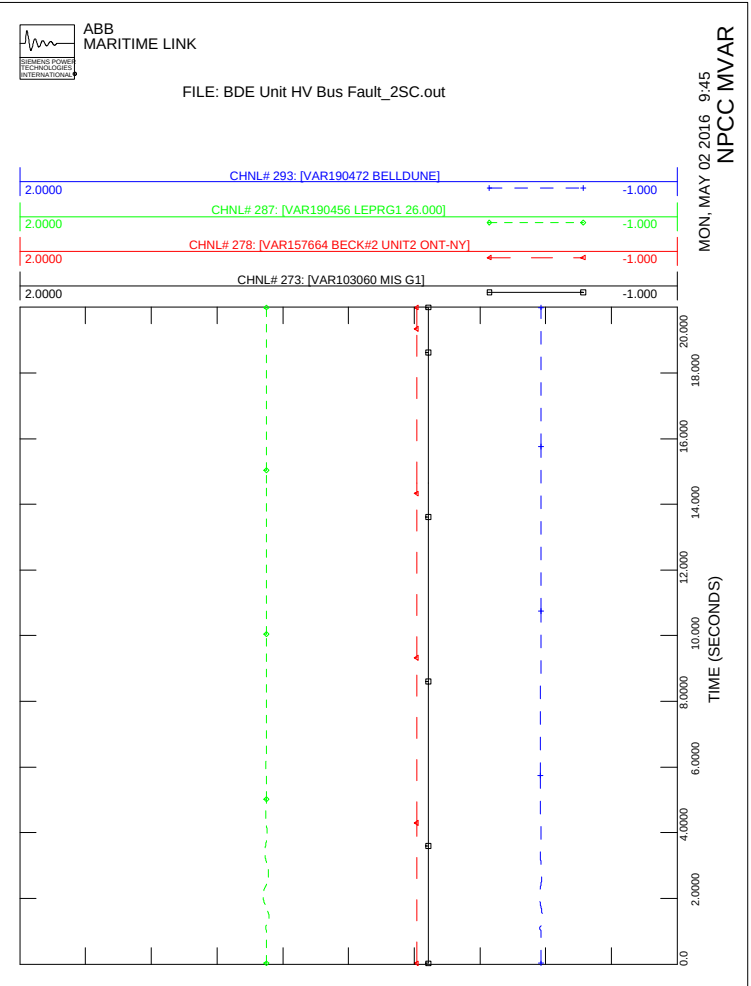
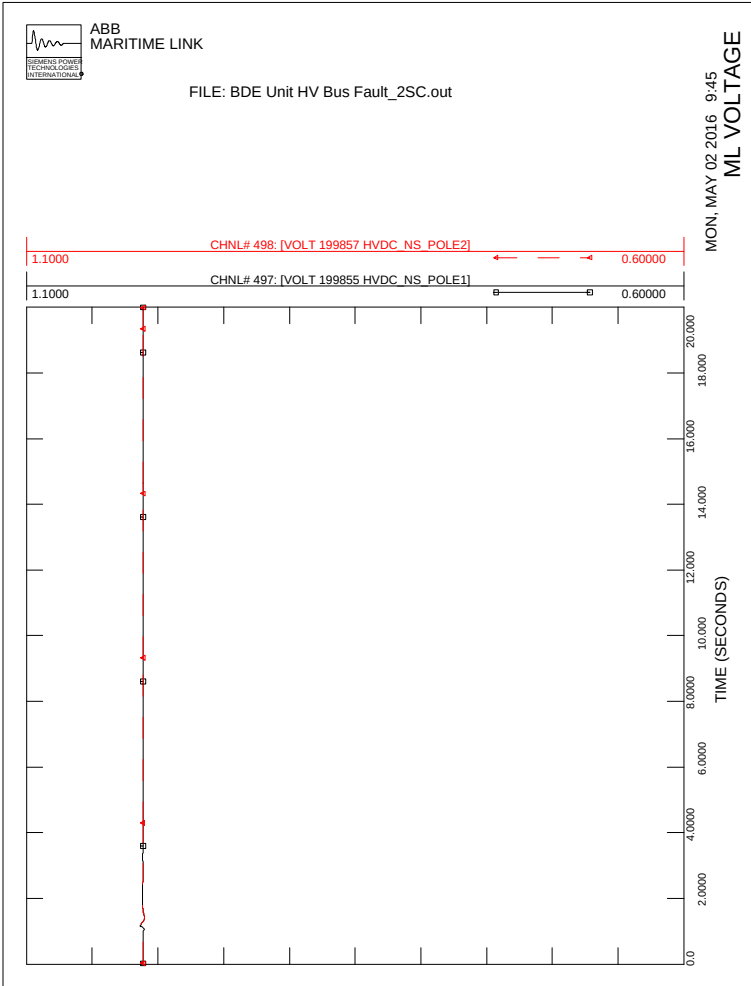
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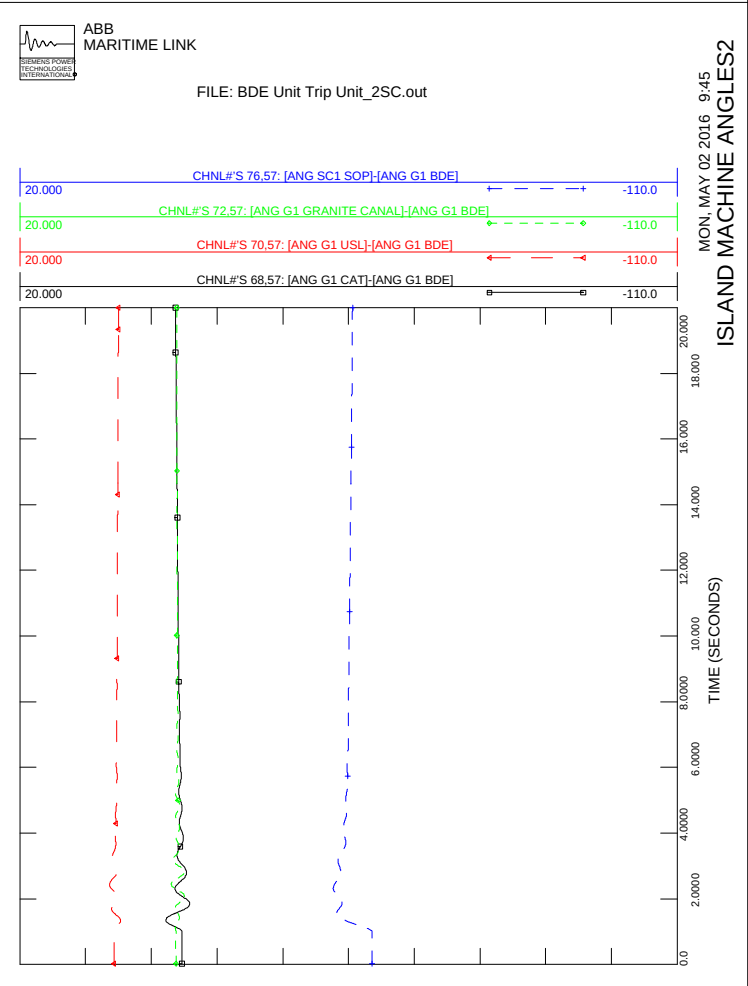
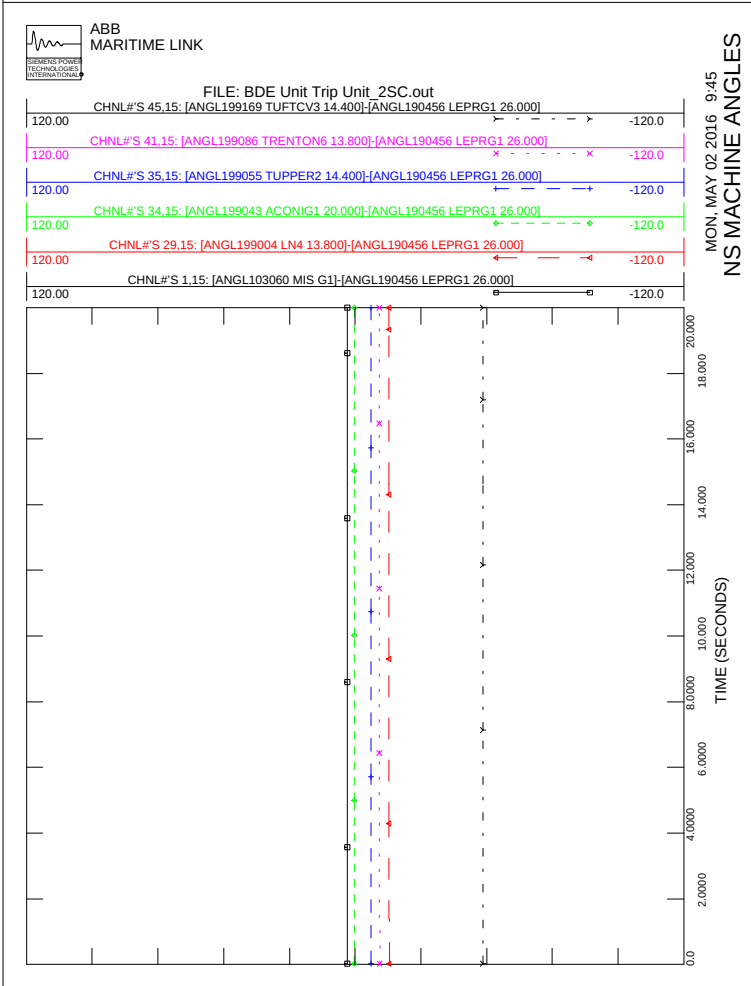
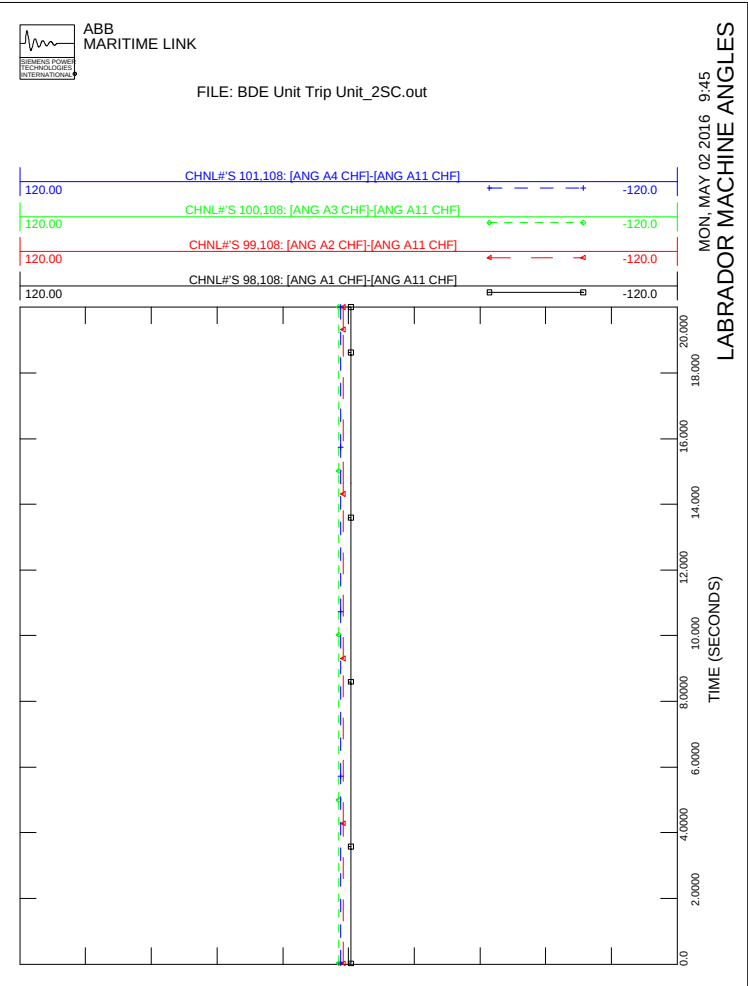
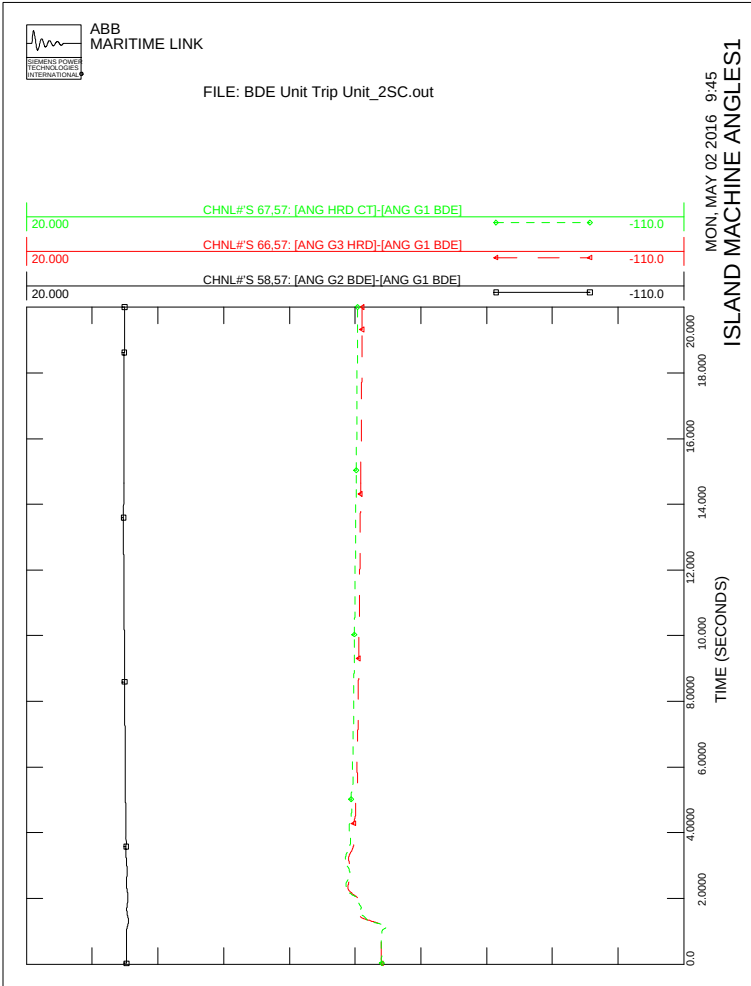
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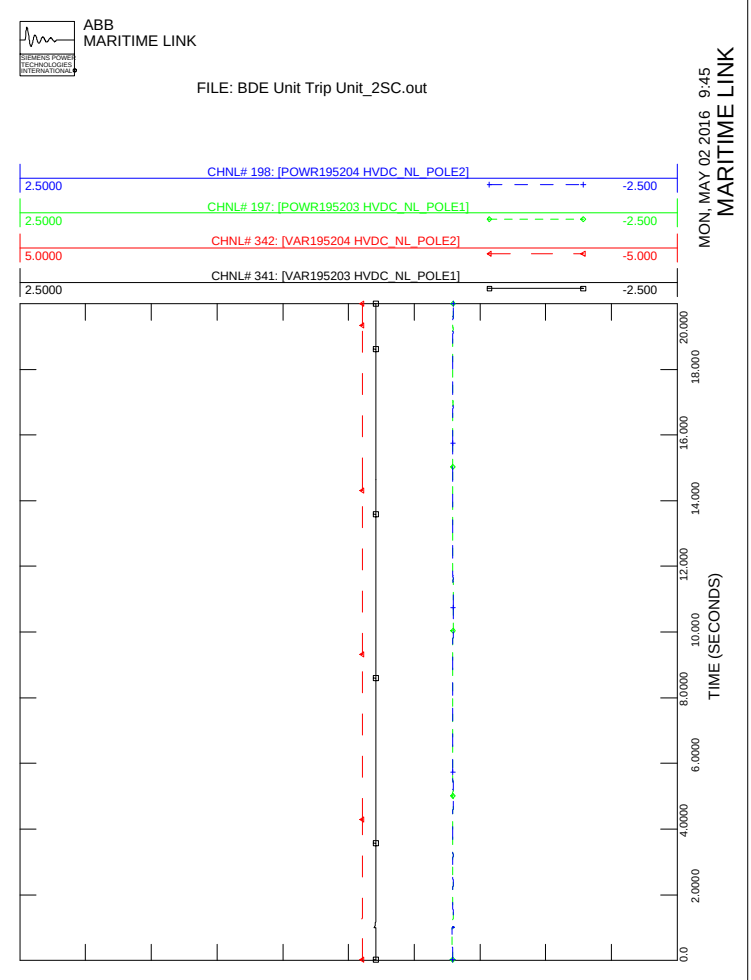
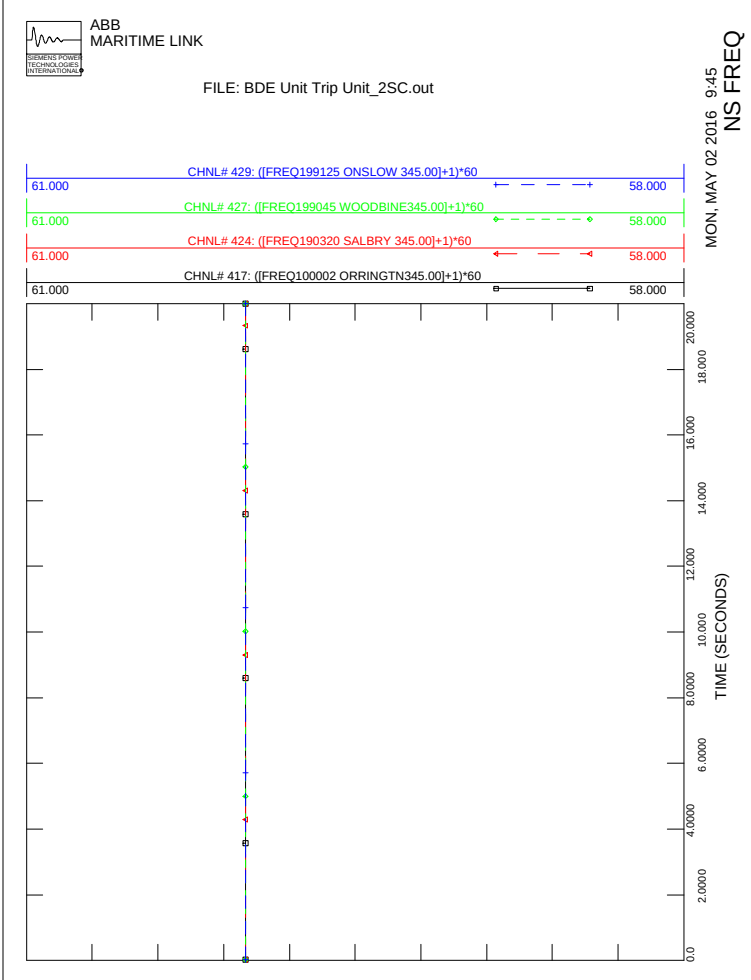
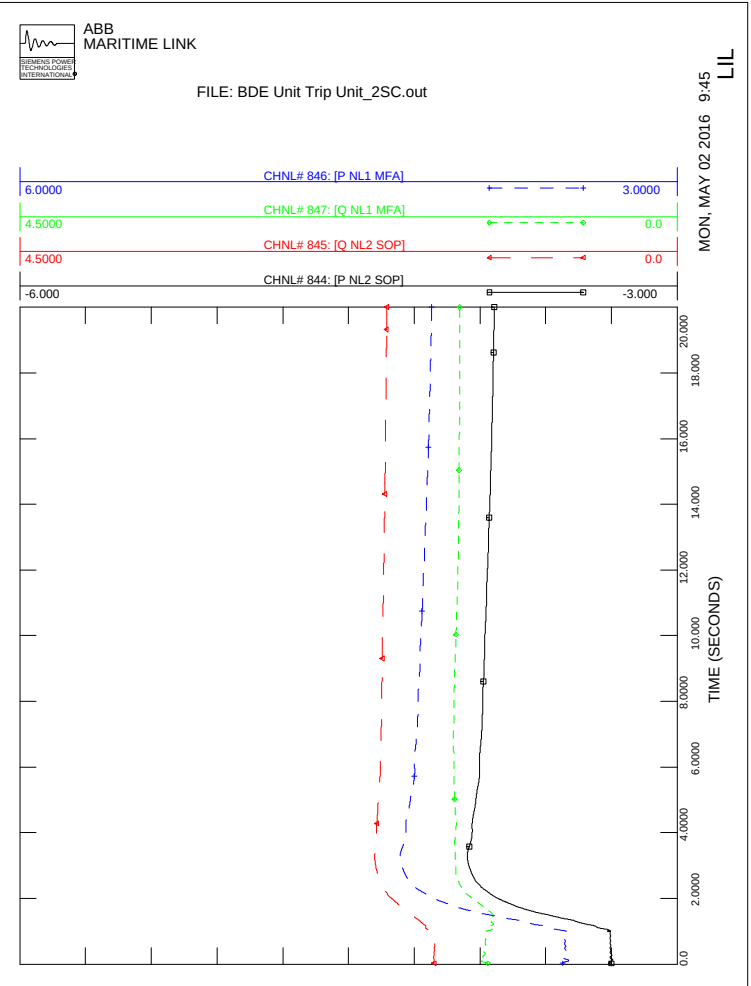
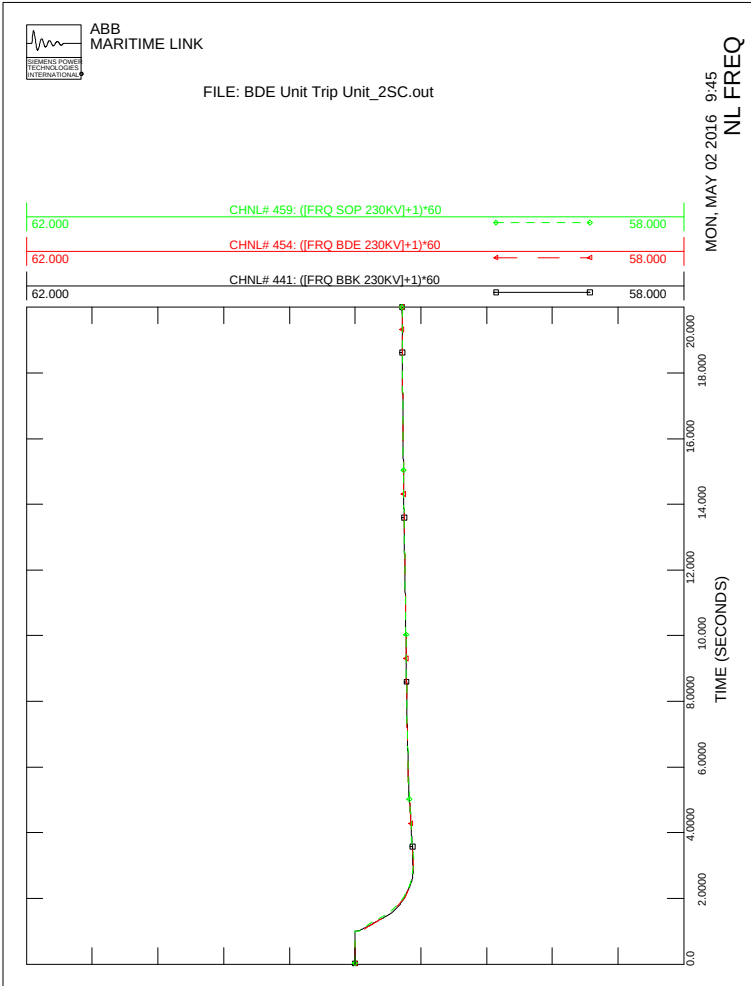
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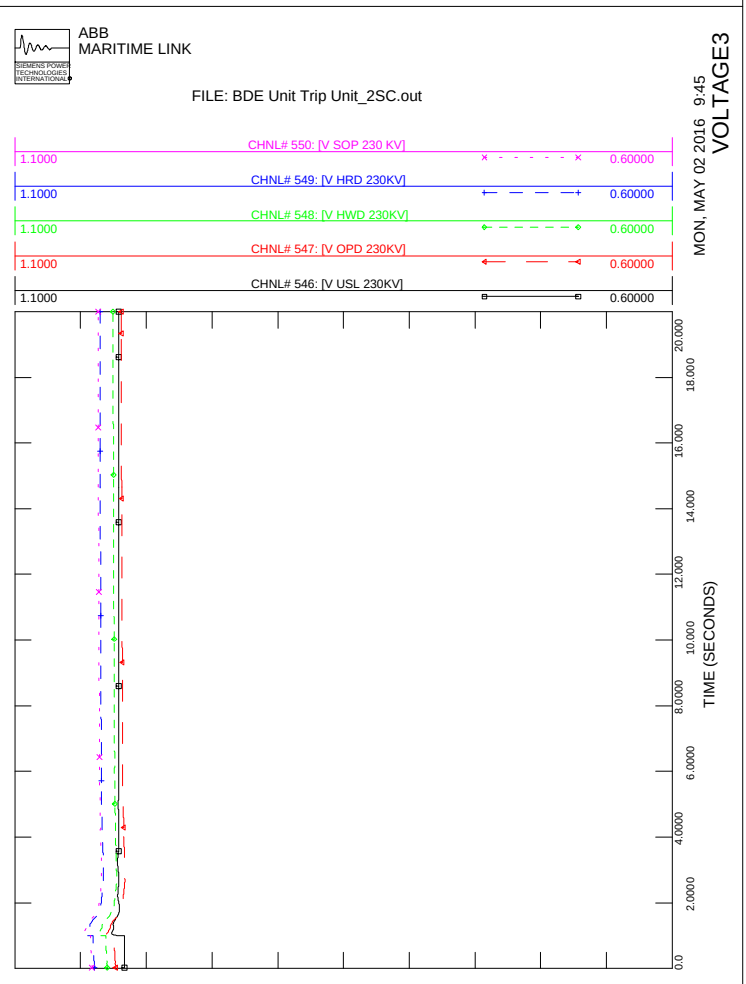
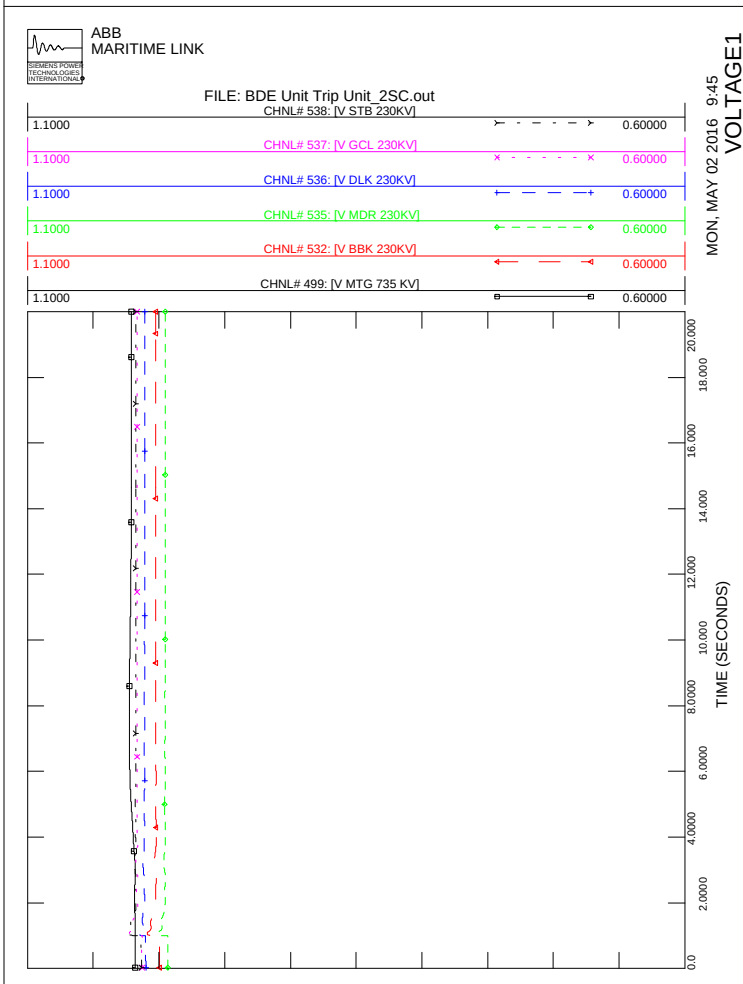
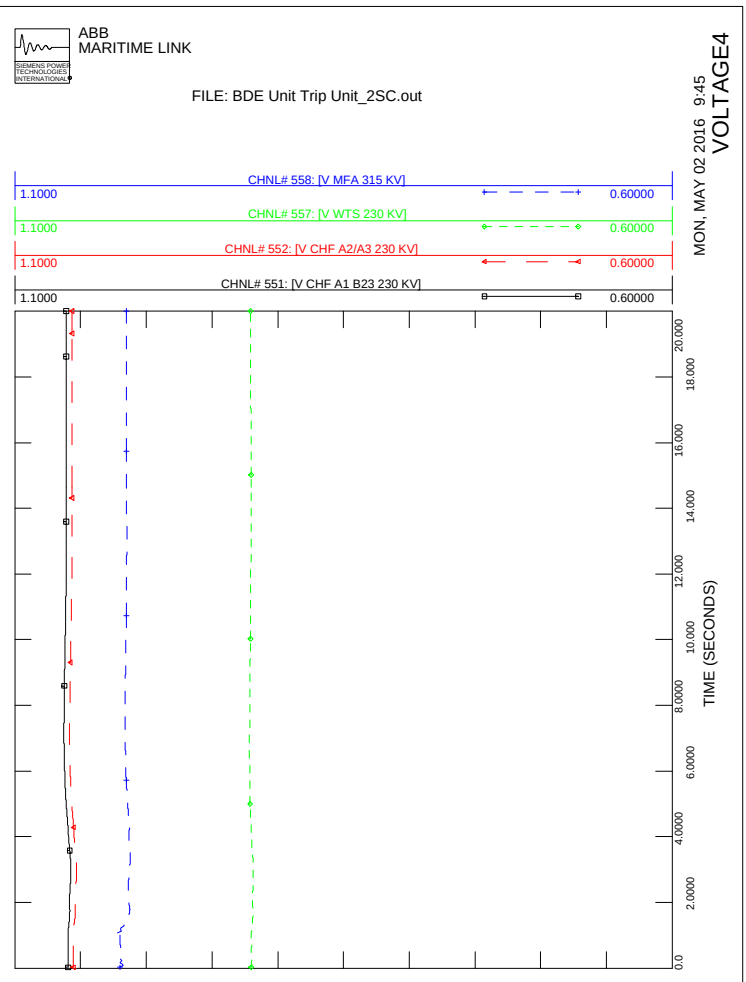
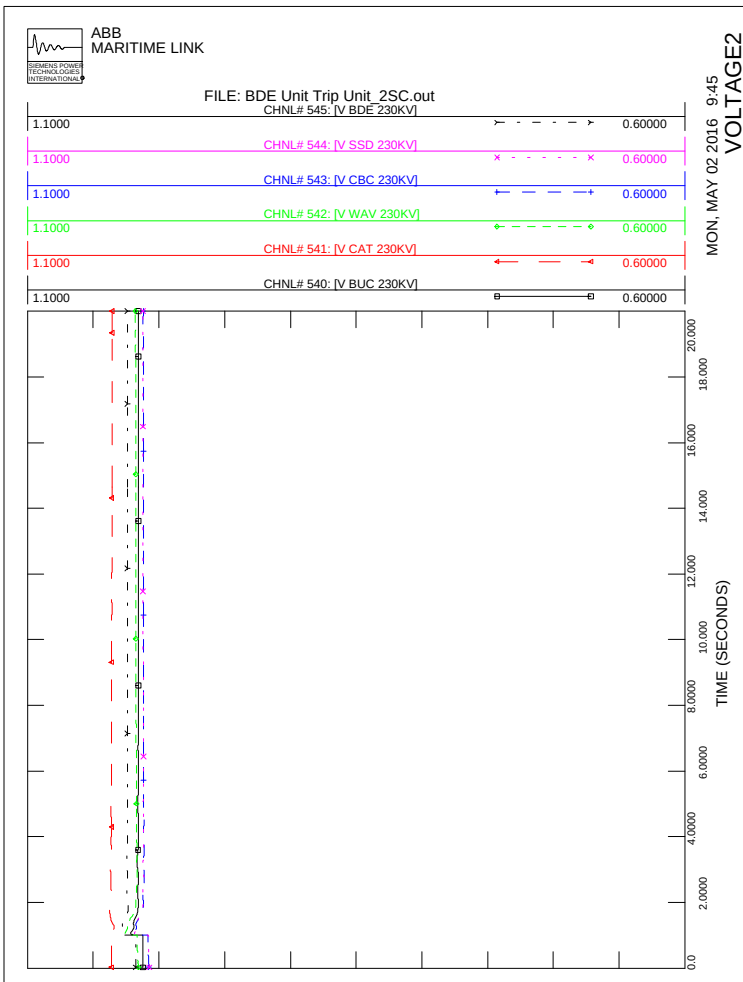
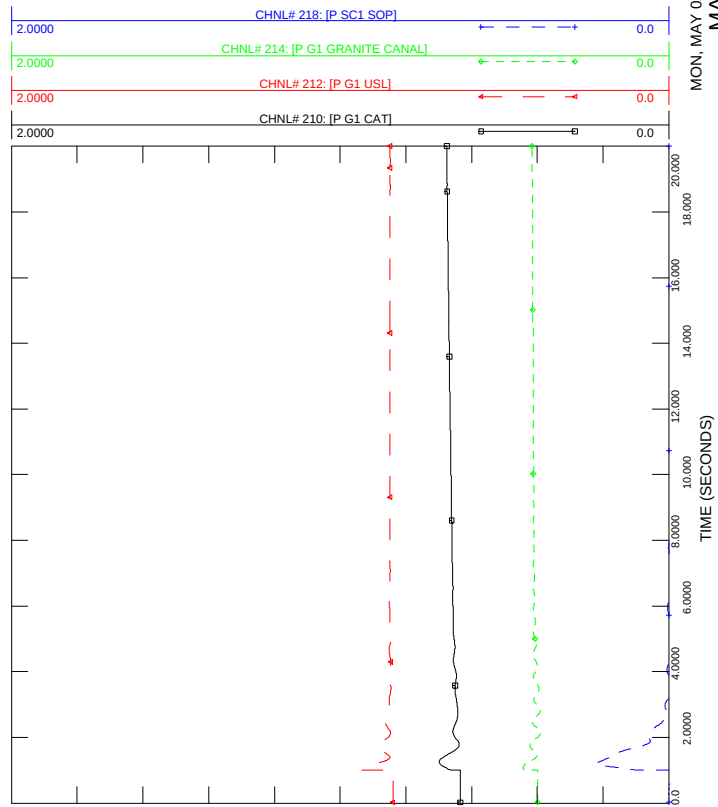
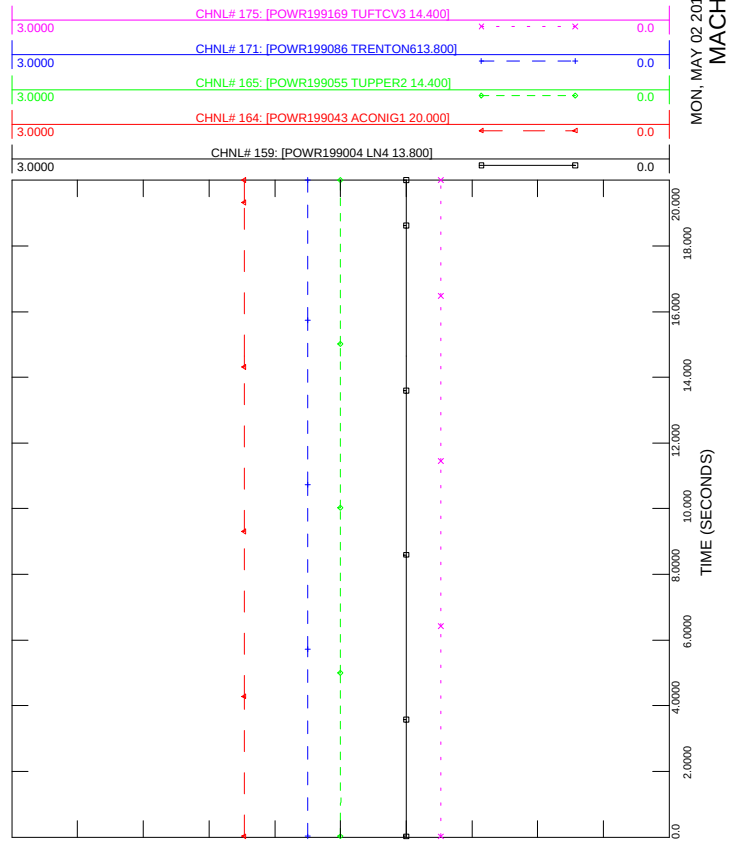


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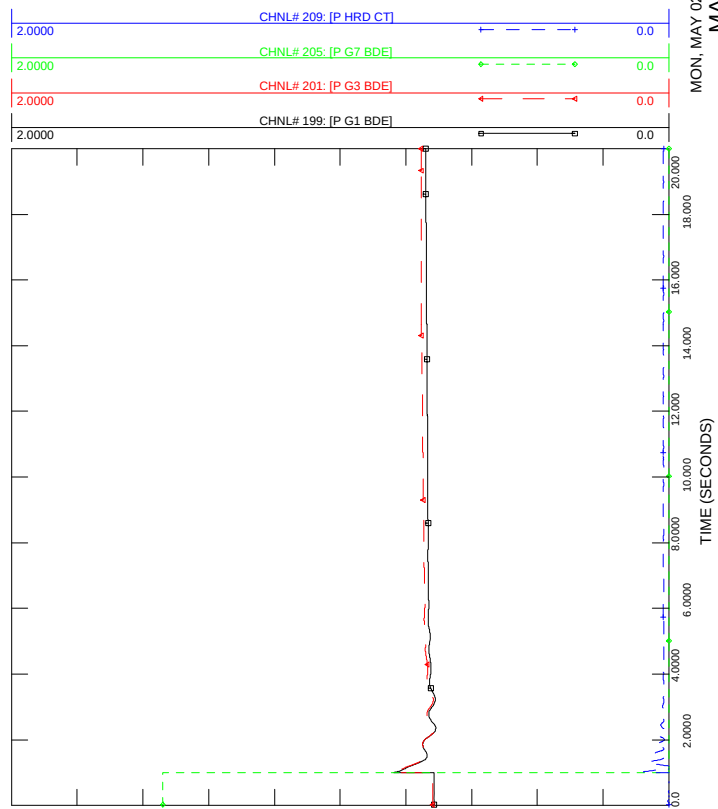
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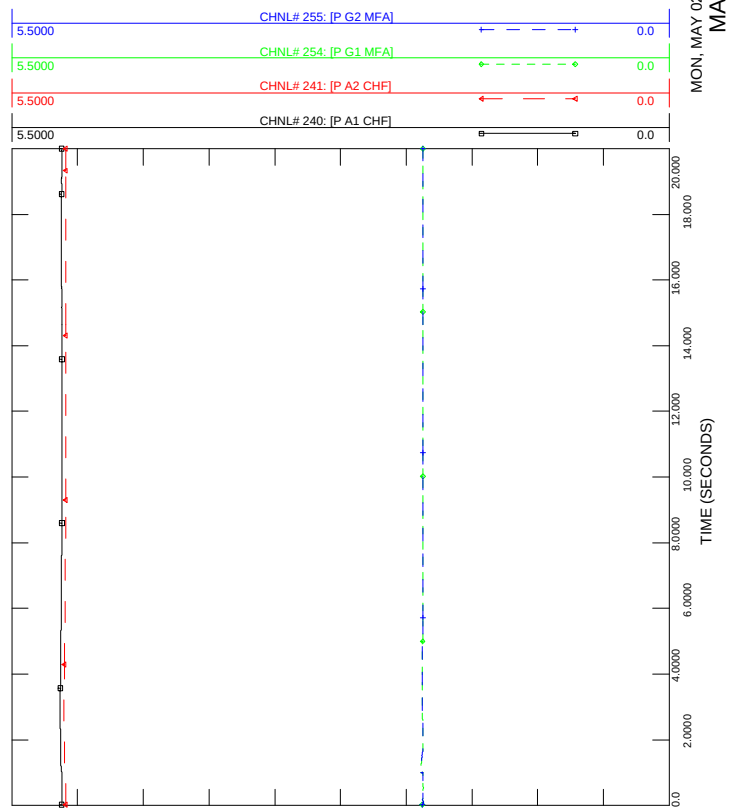
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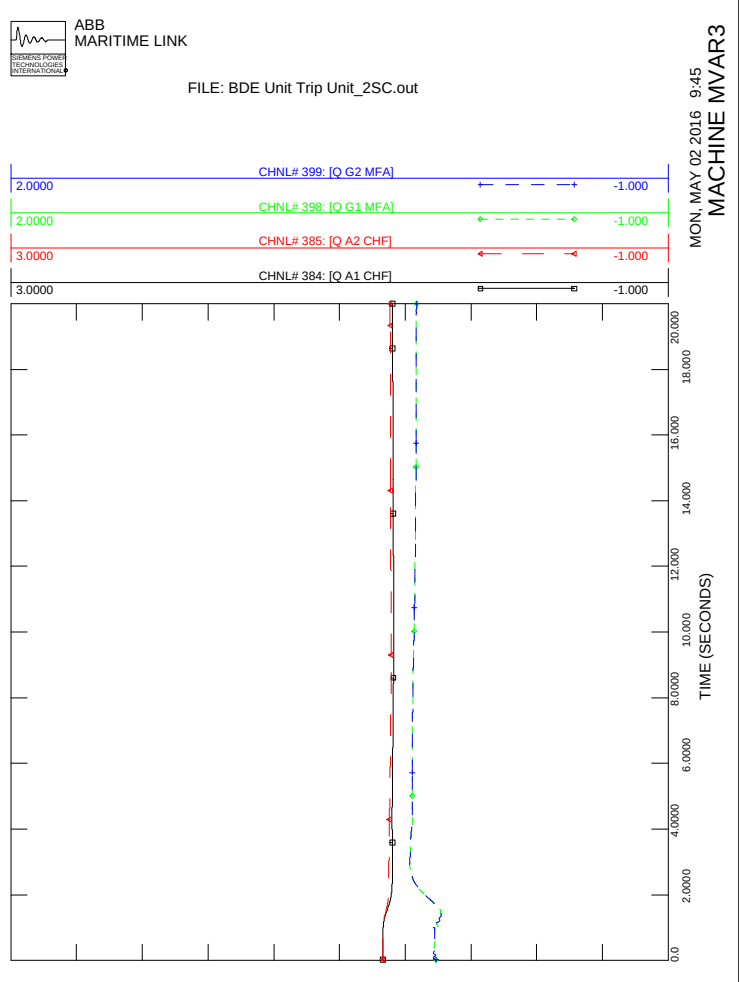
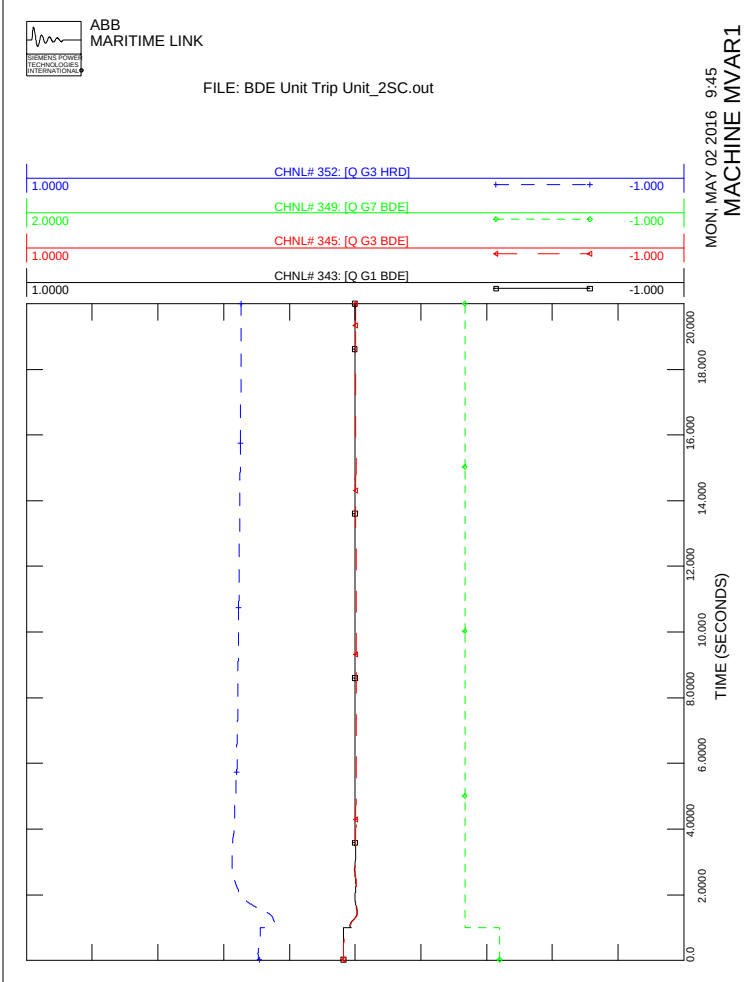
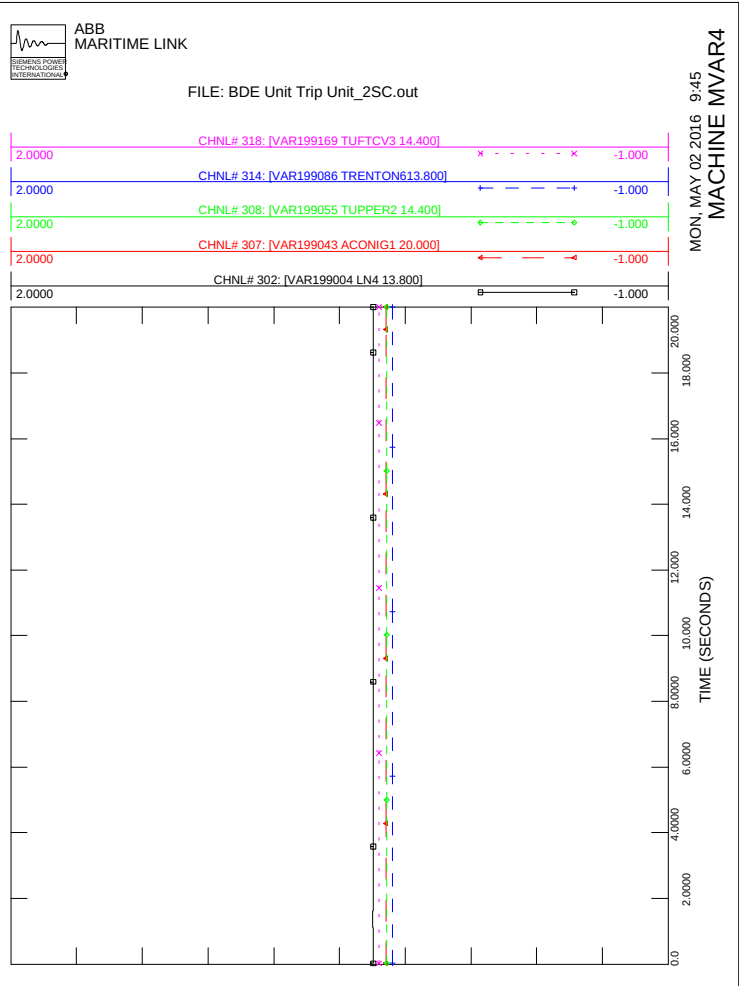
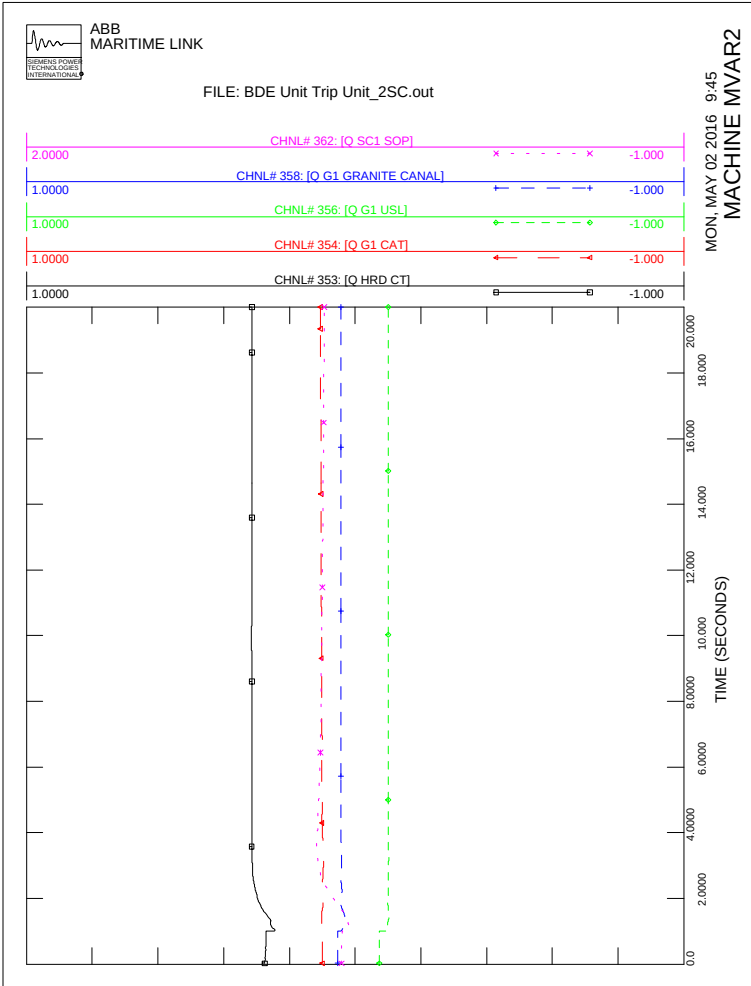
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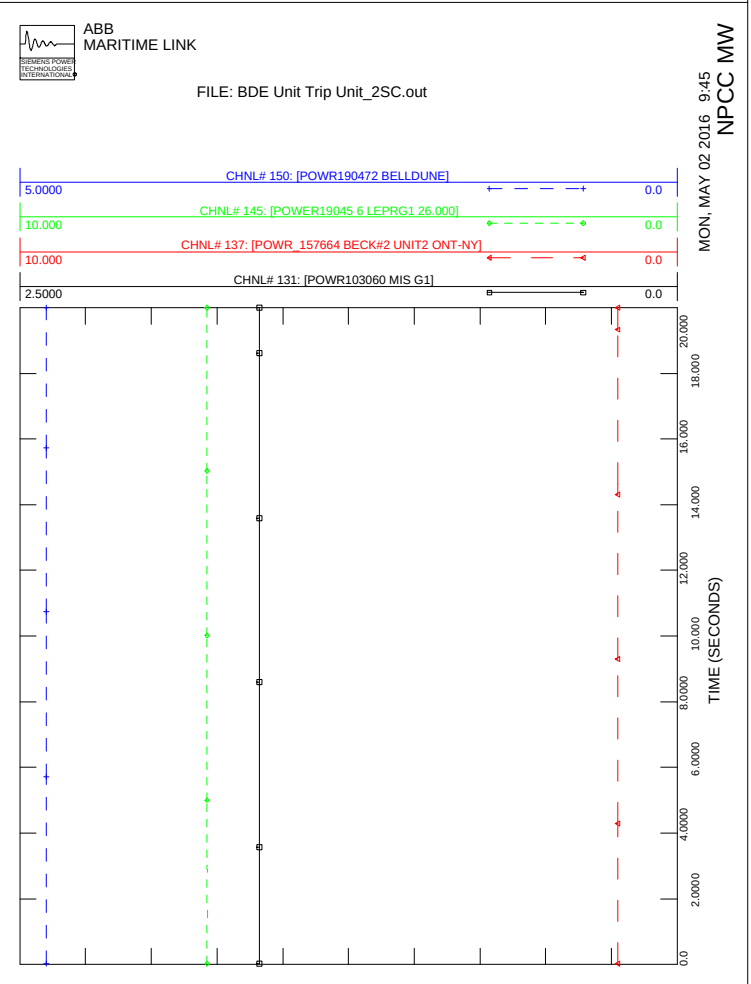
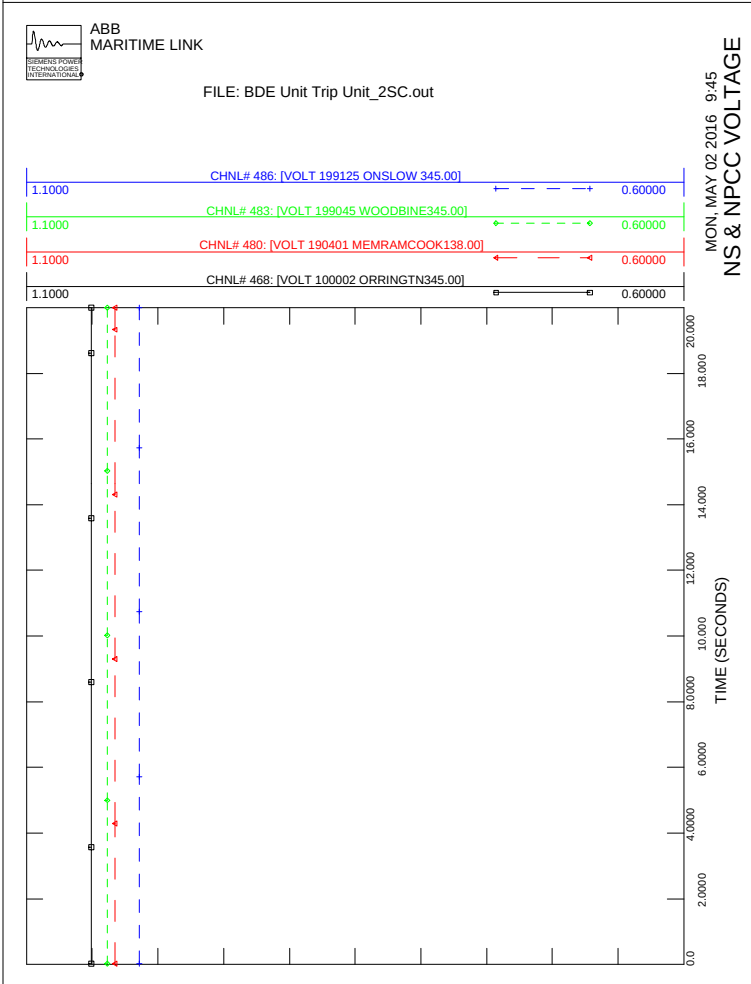
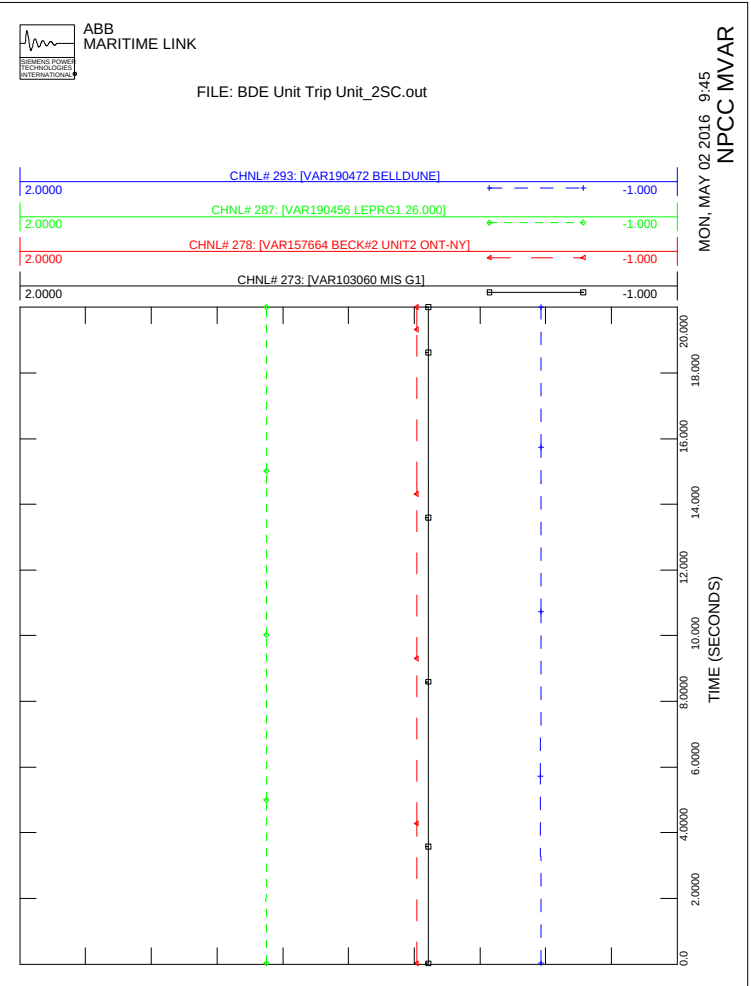
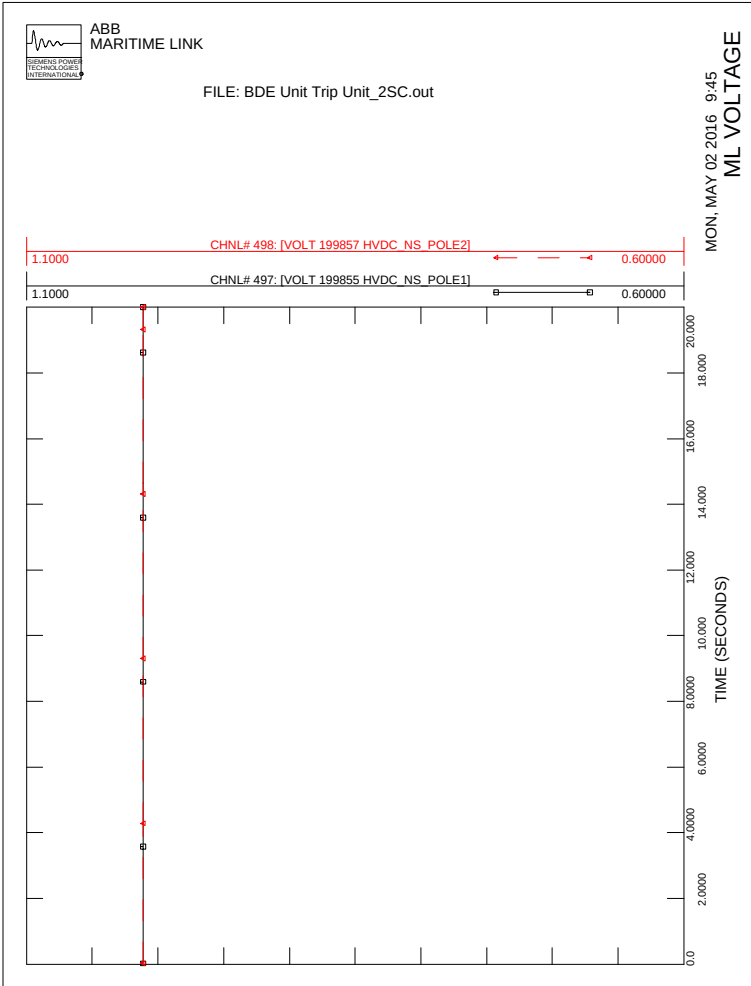
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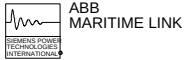
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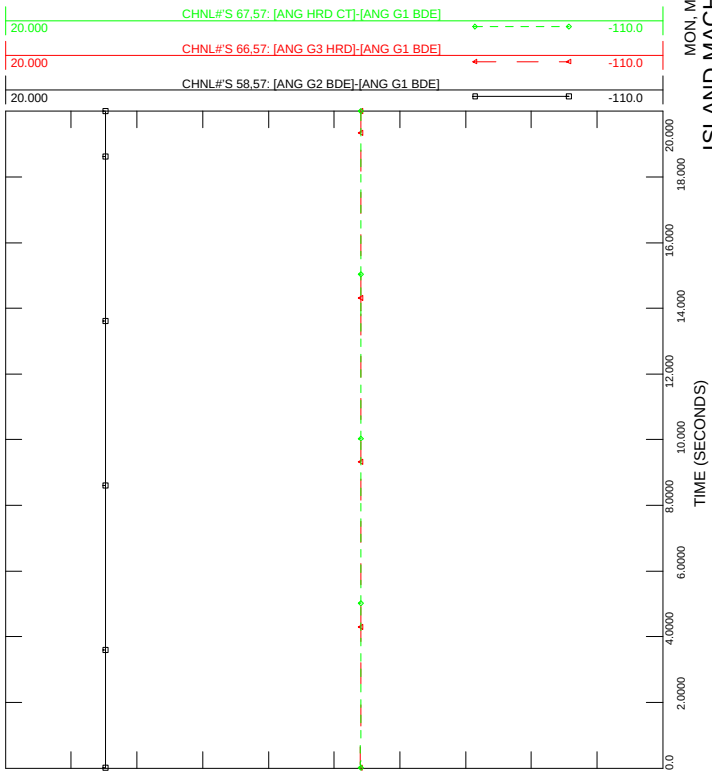




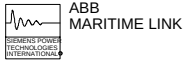
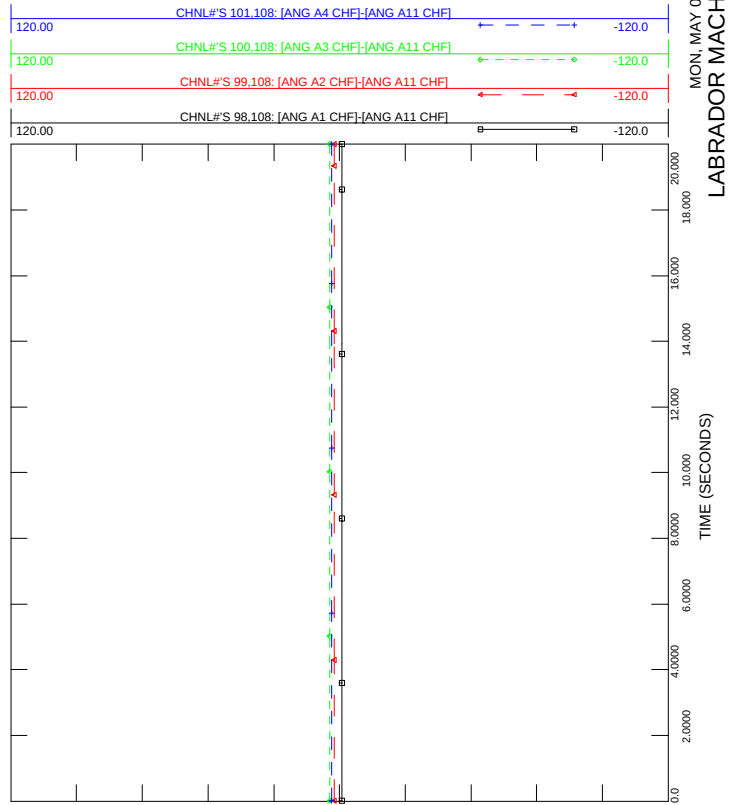




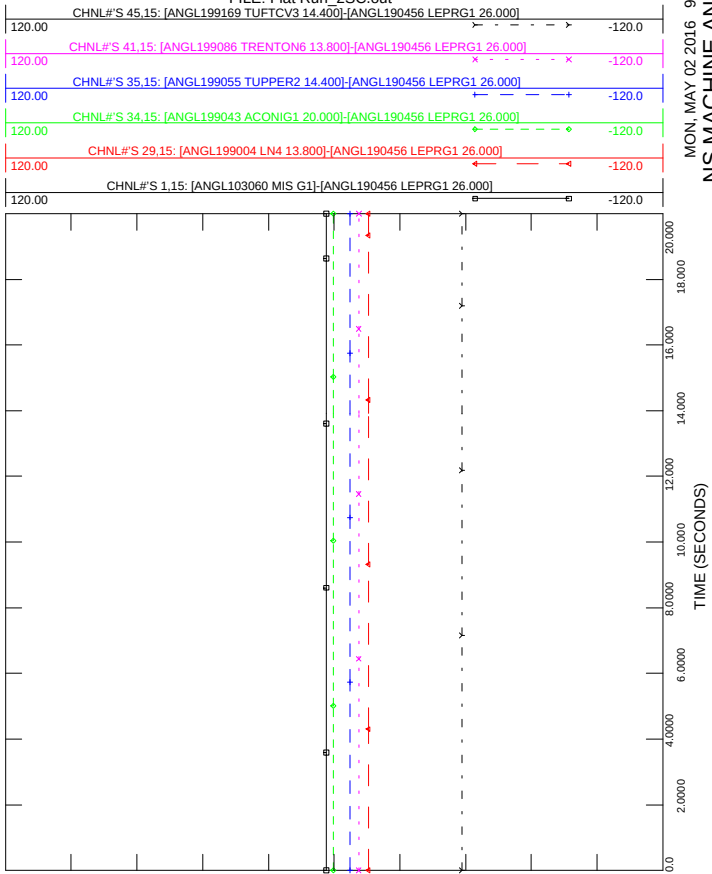
FILE: Flat Run_2SC.out



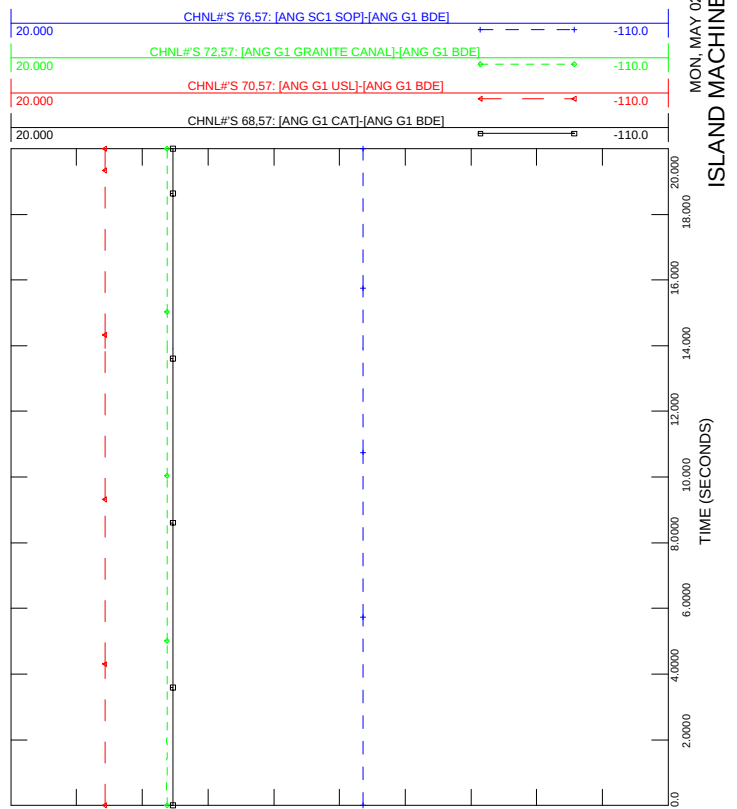
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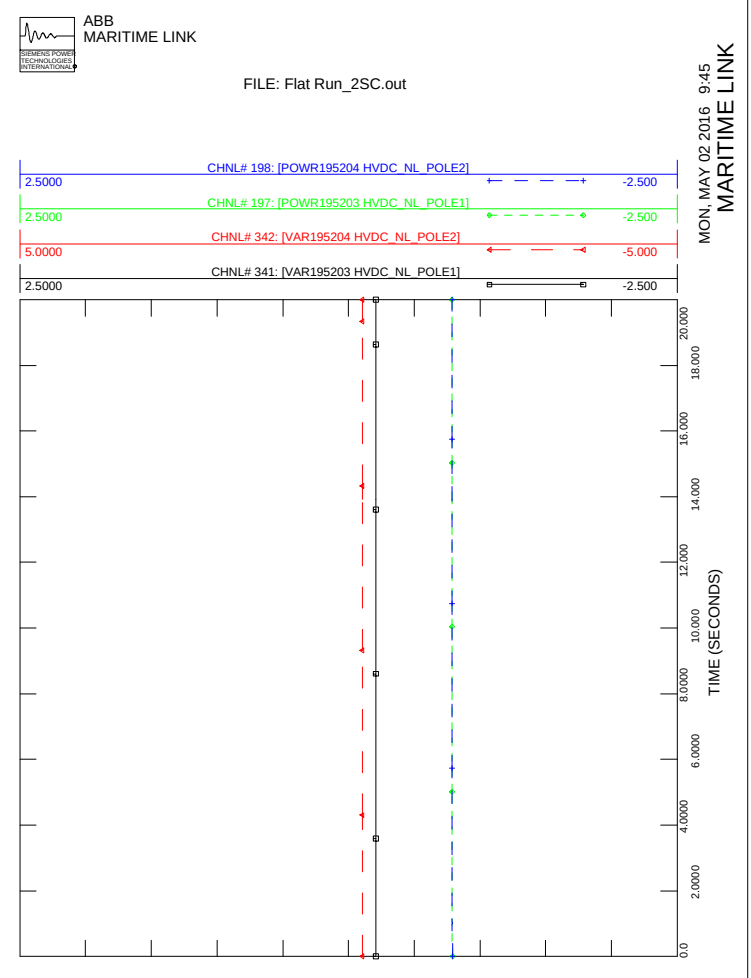
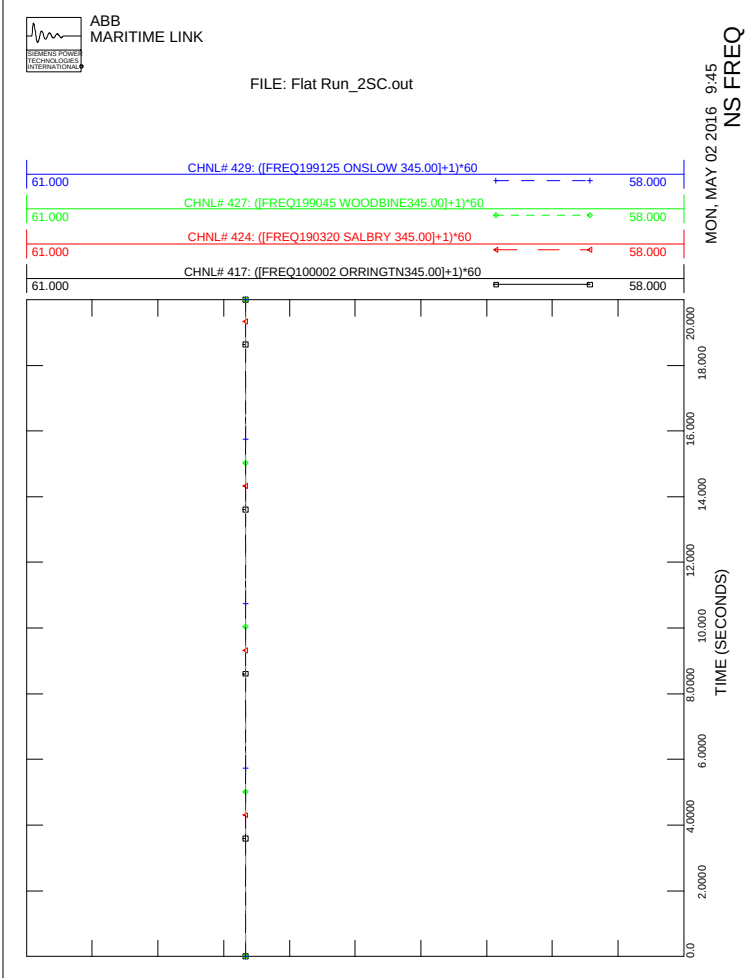
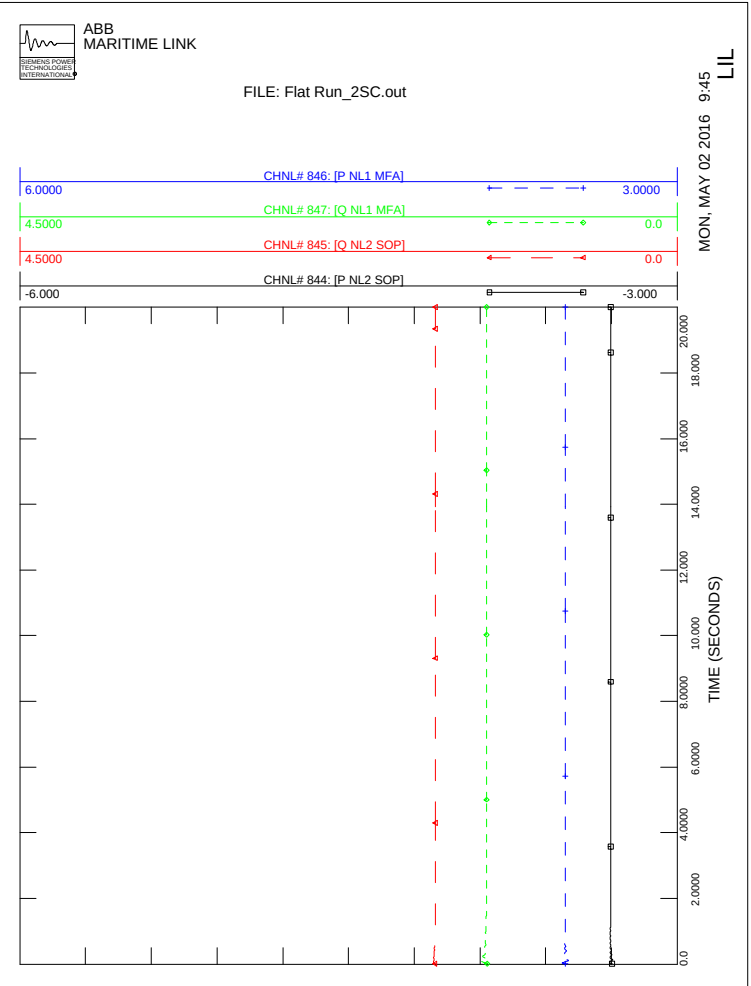
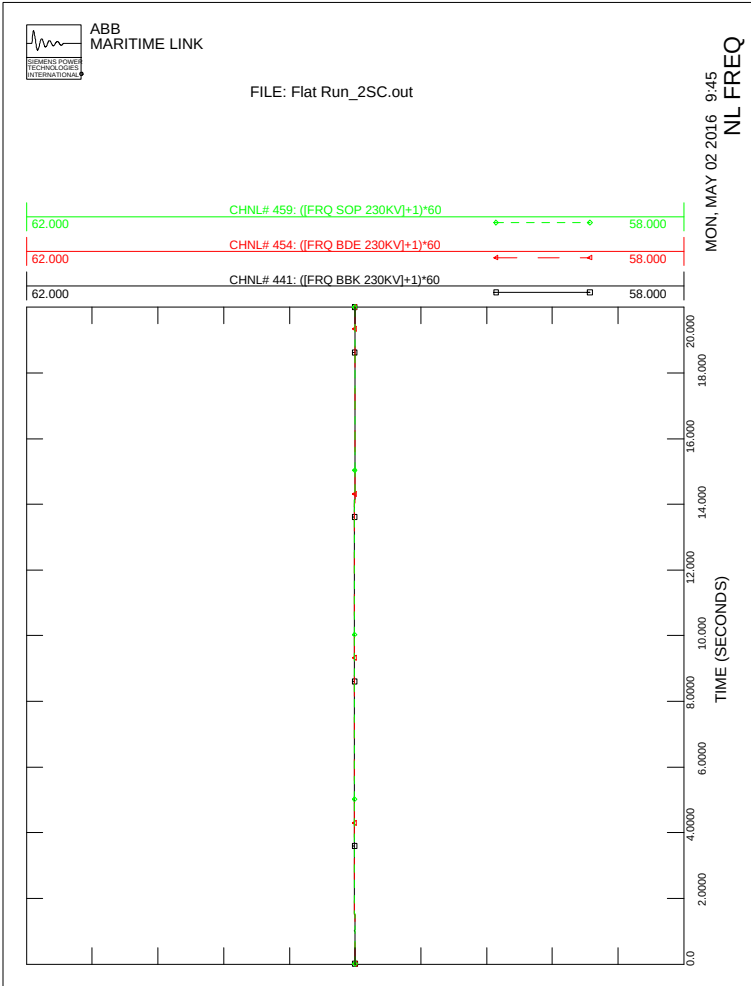


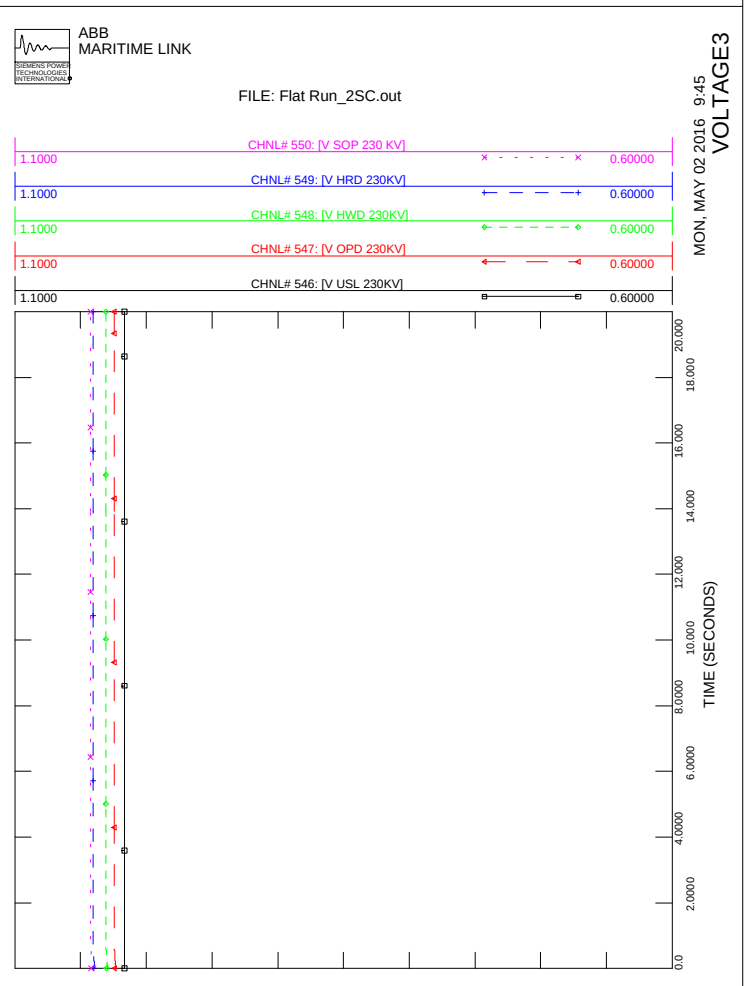
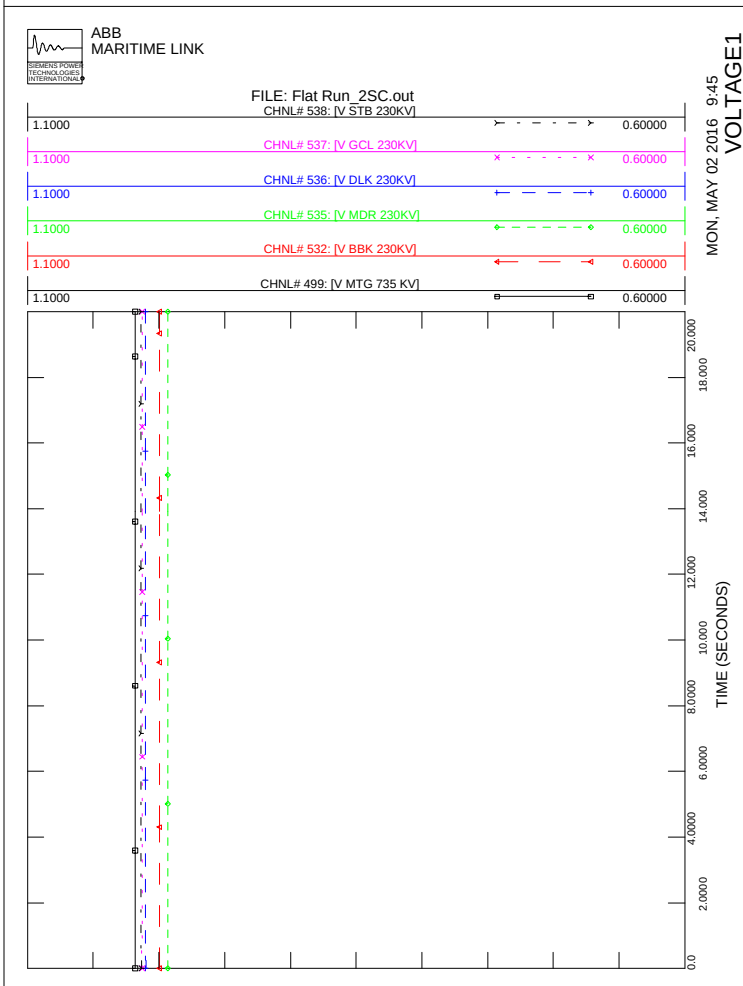
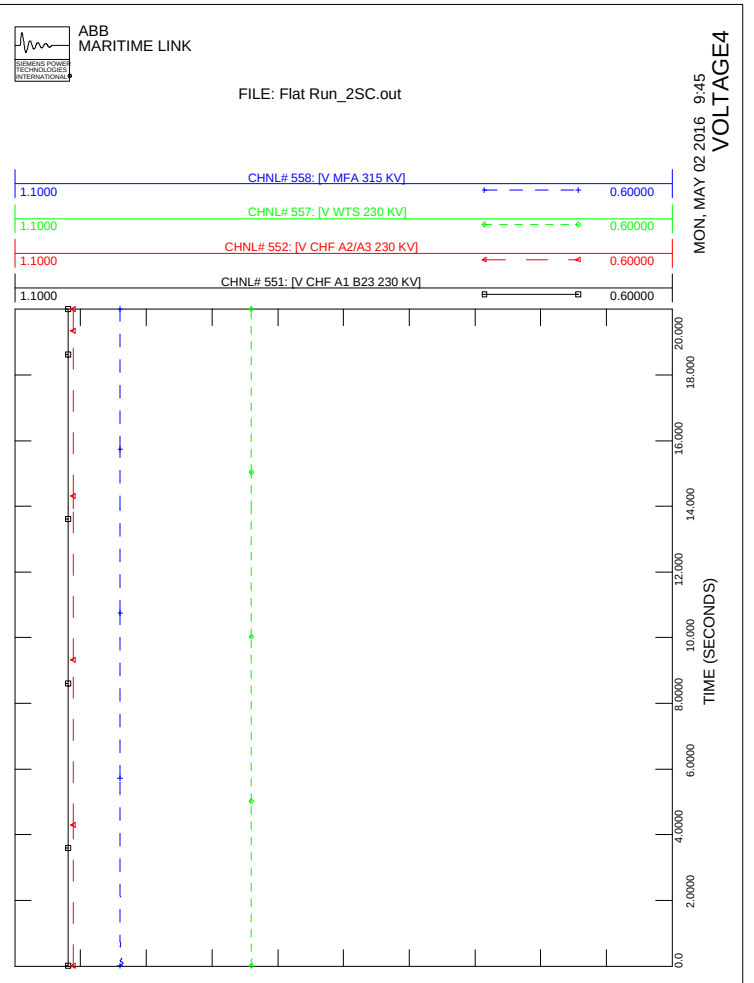
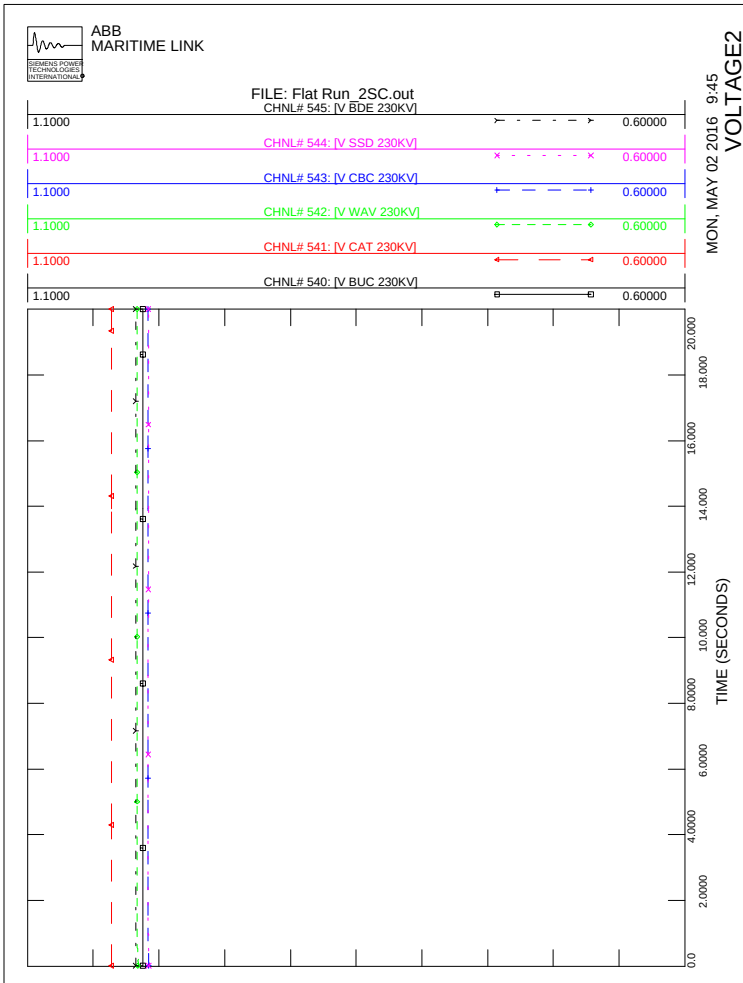
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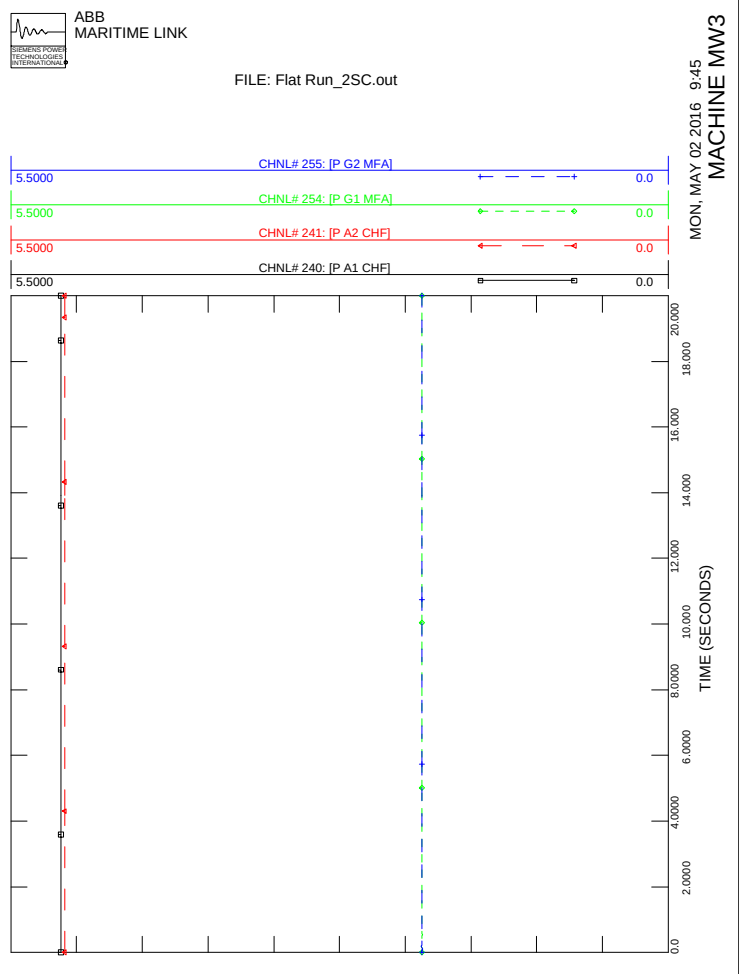
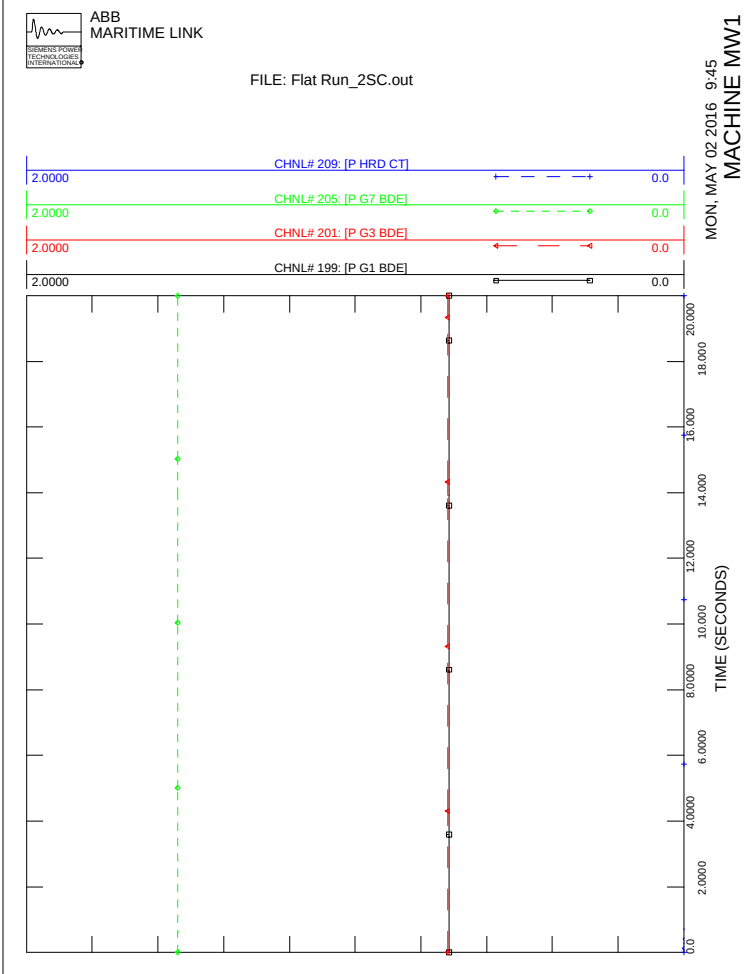
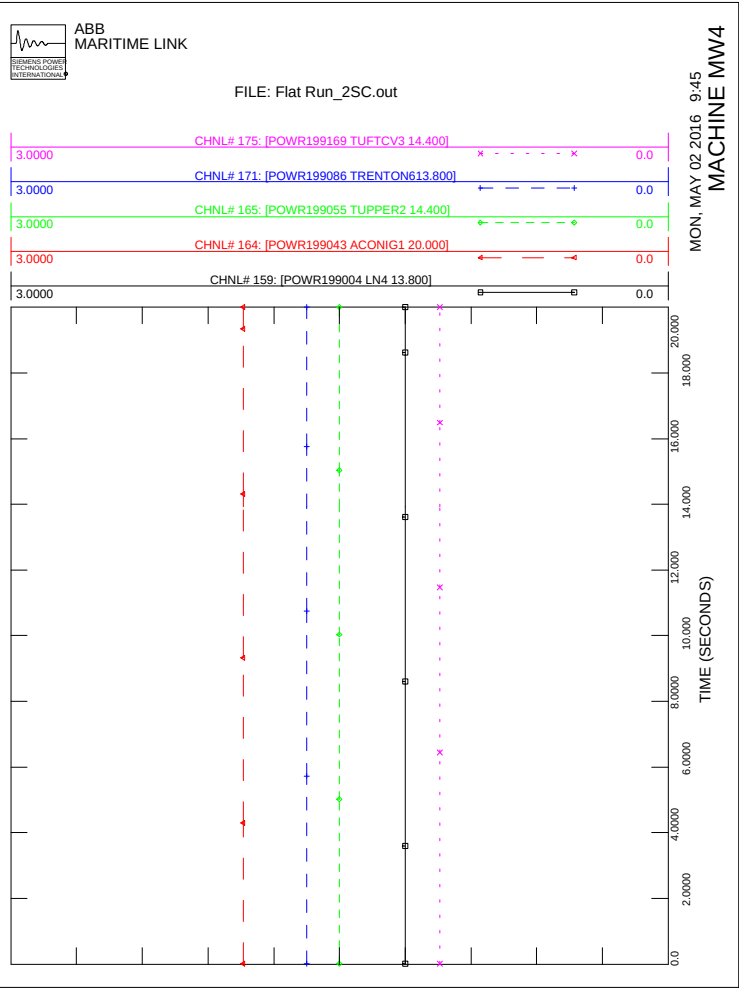
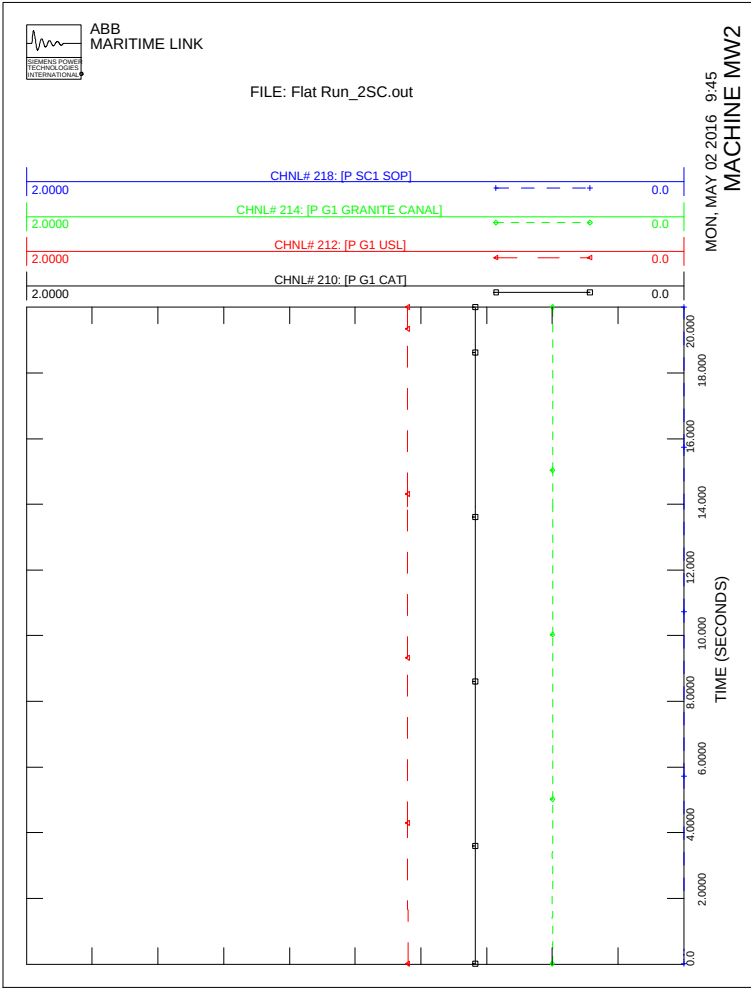


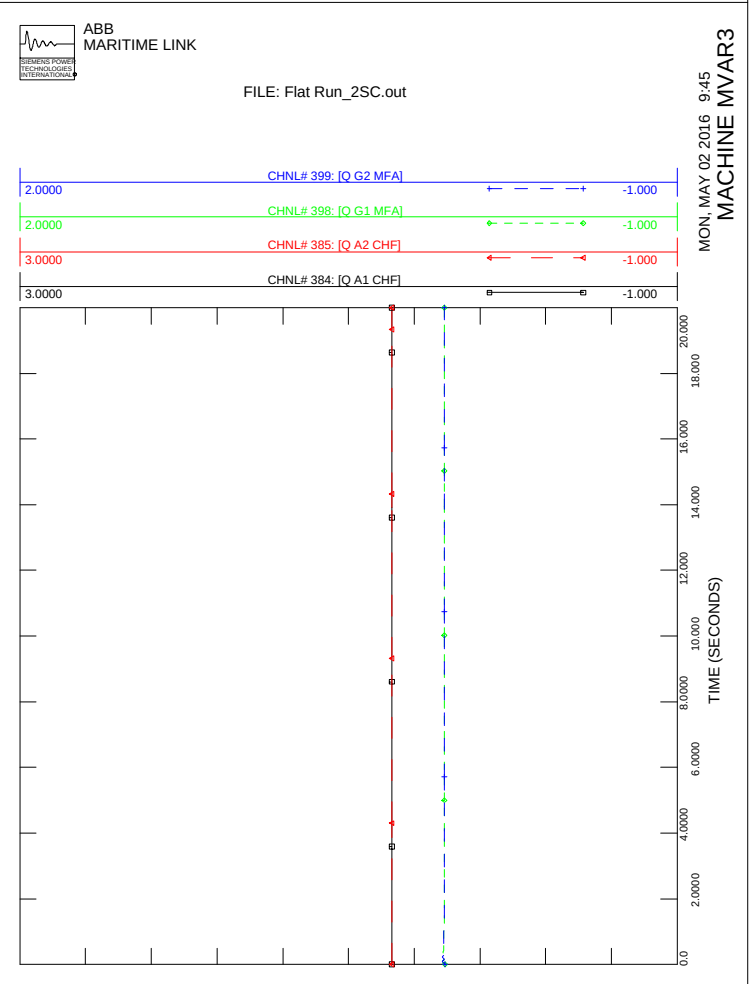
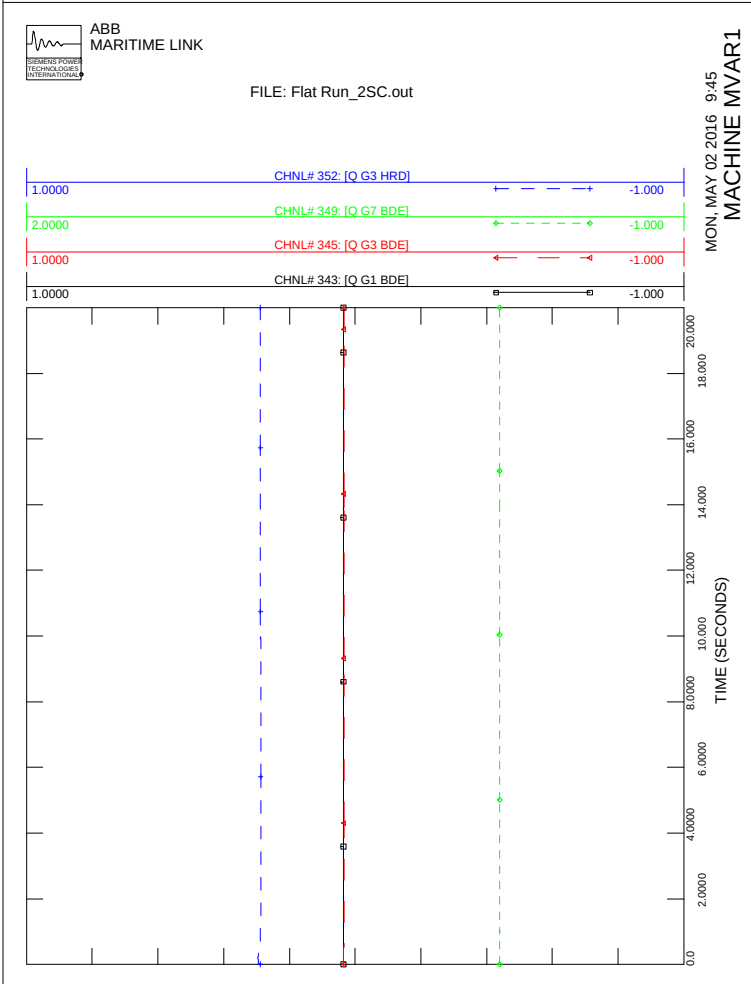
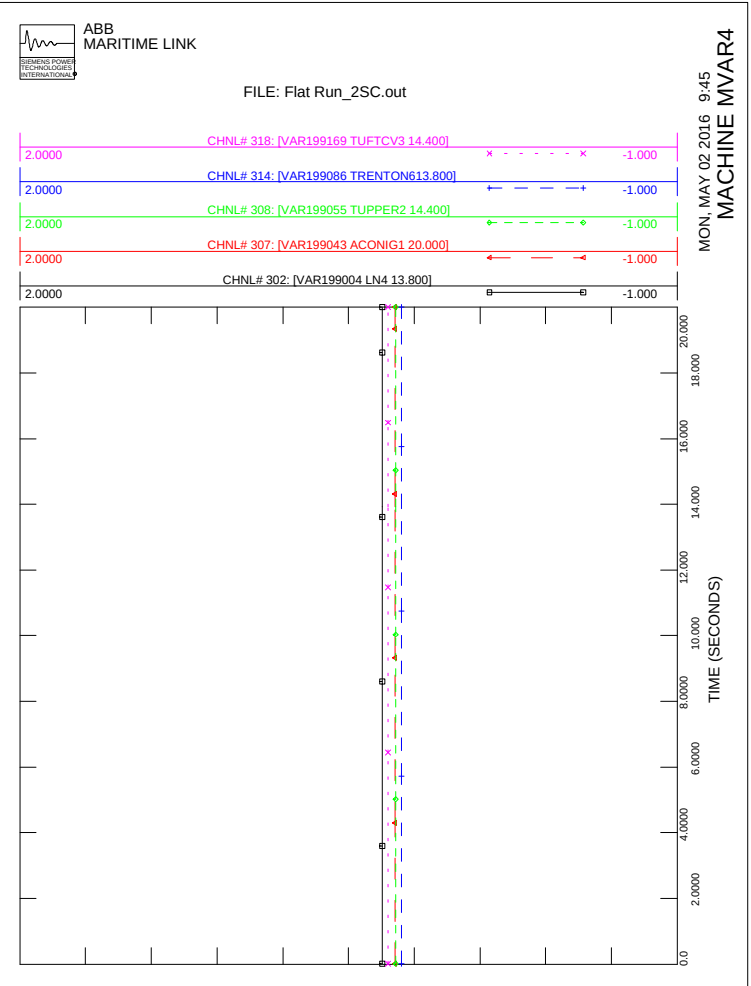
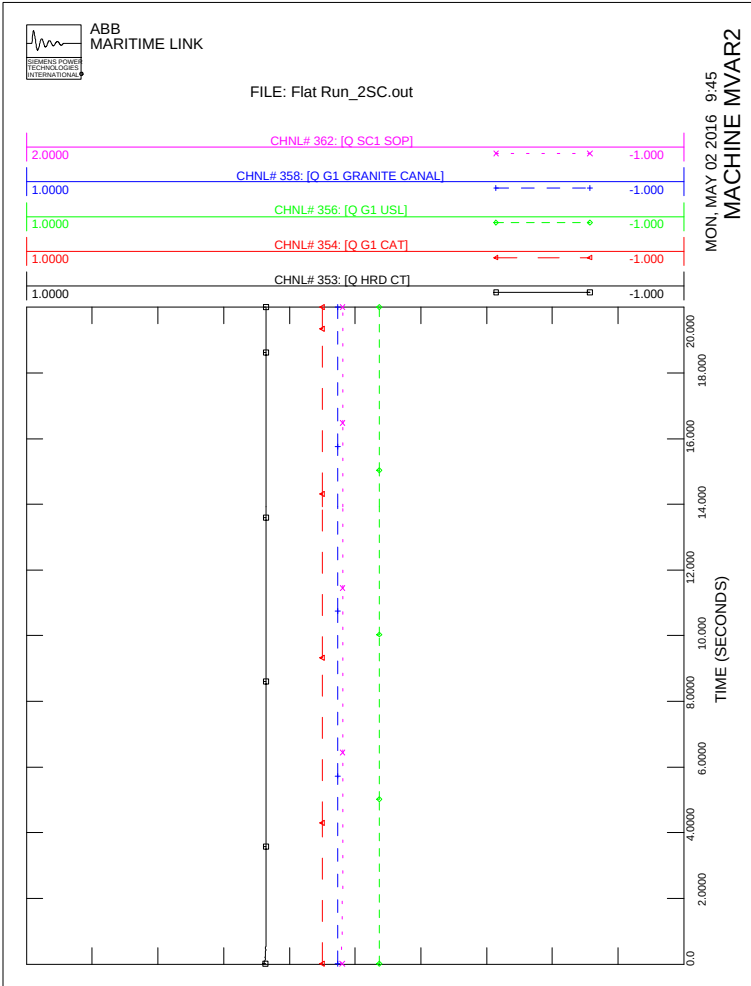
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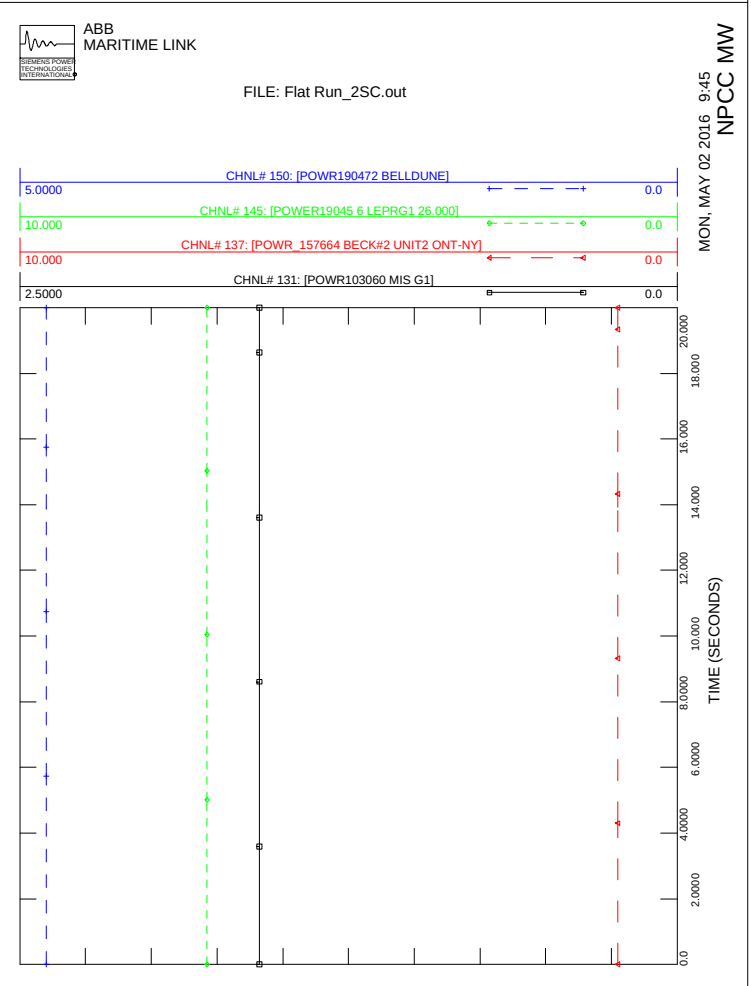
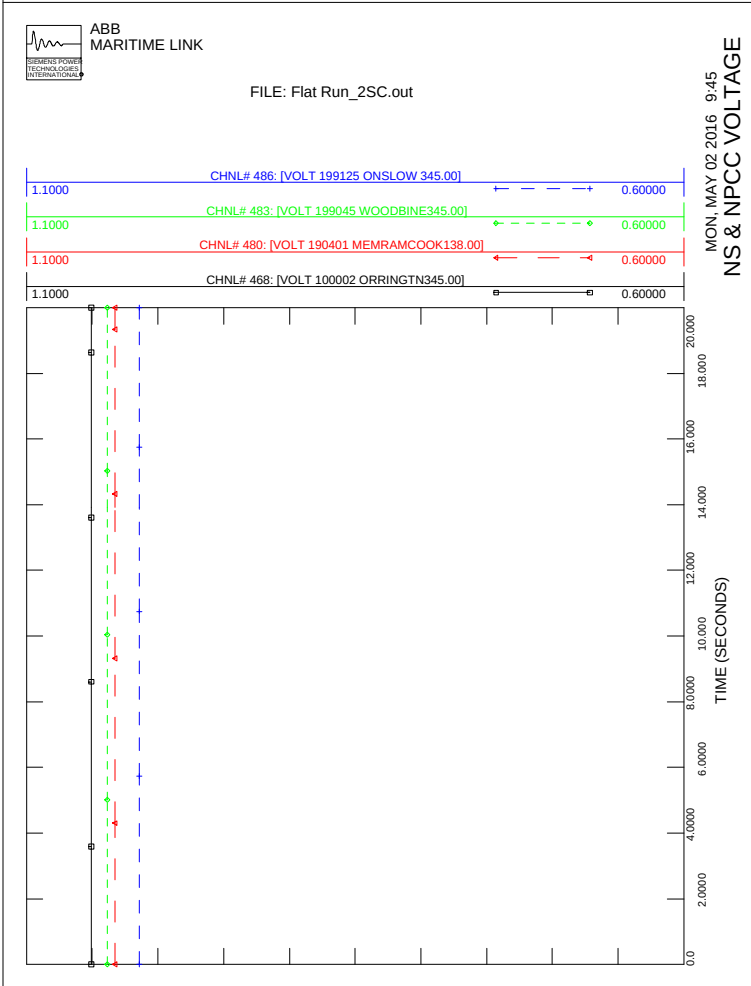
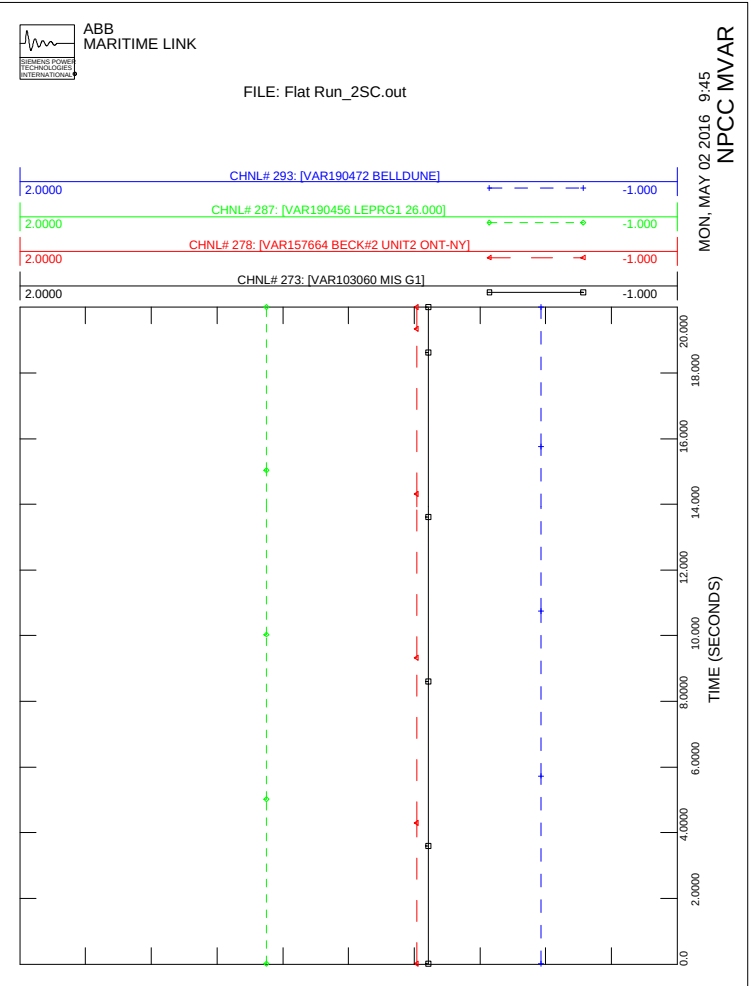
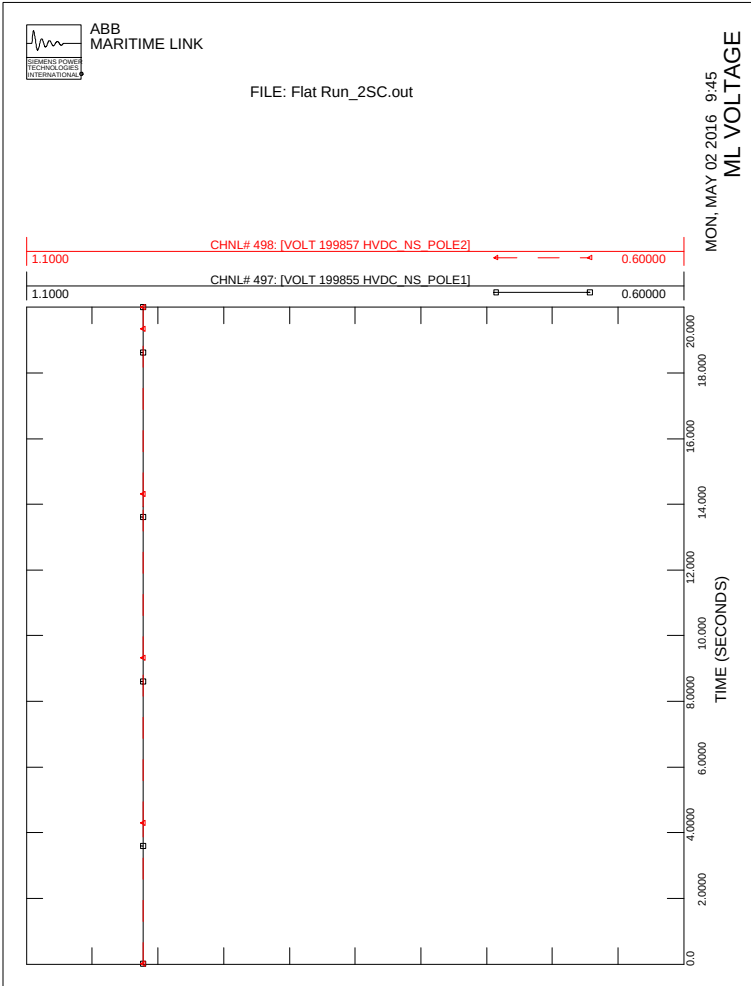












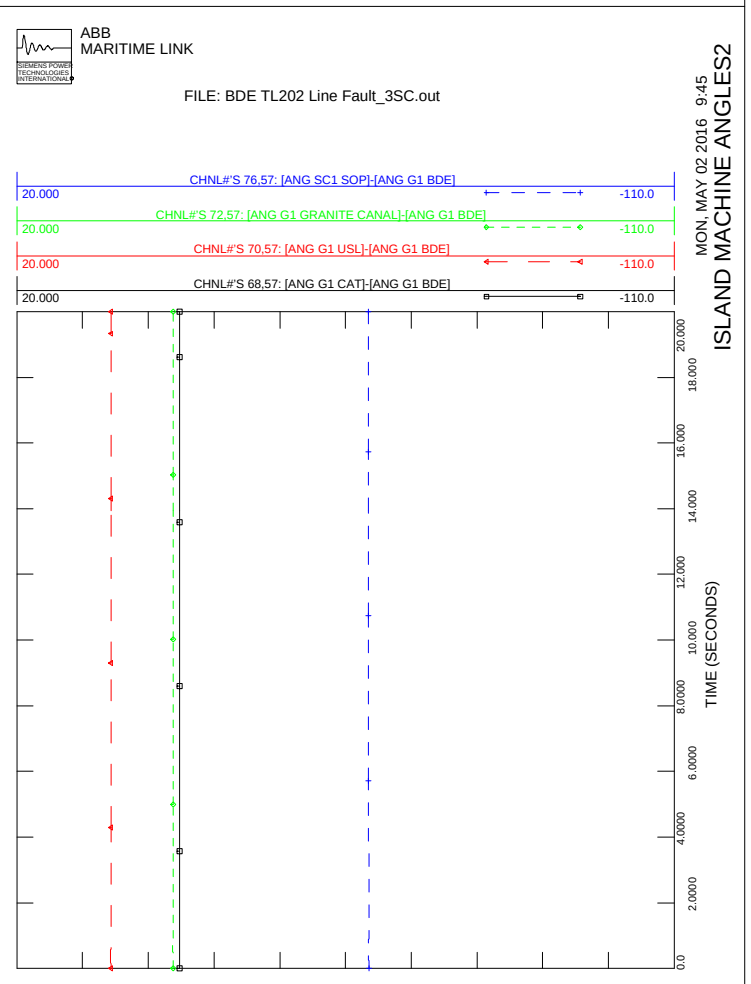
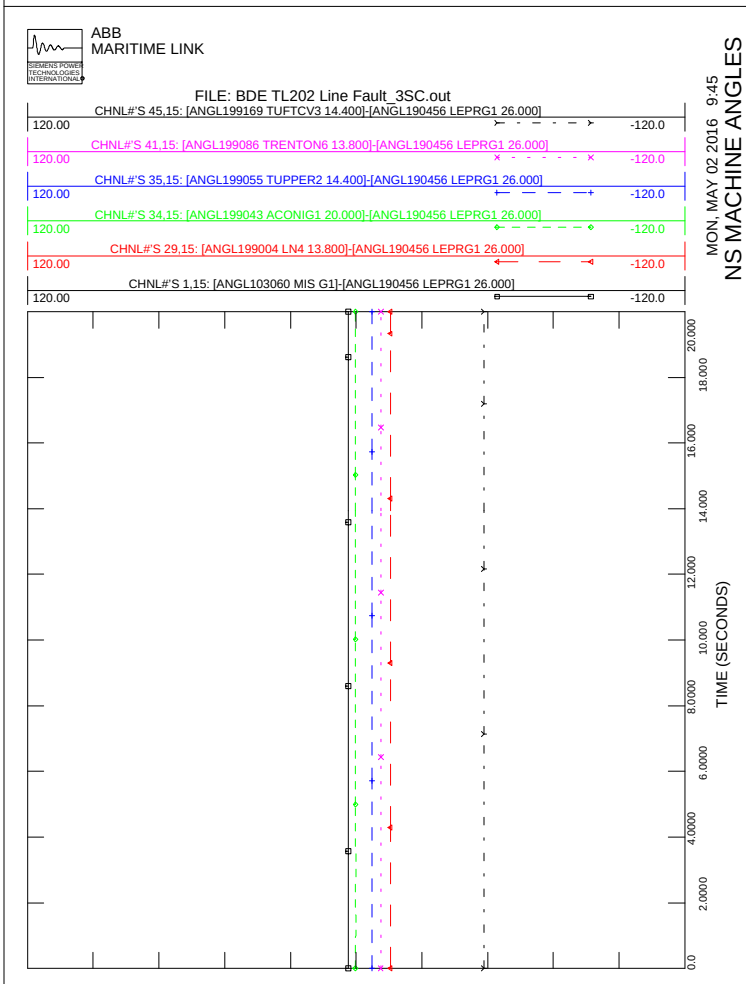
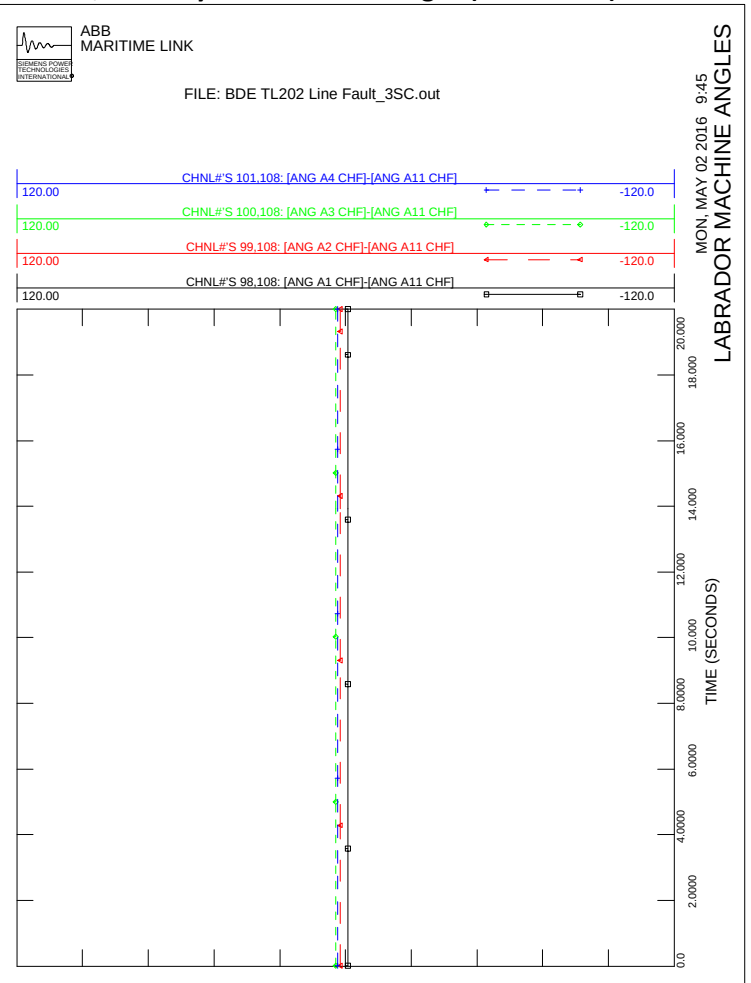
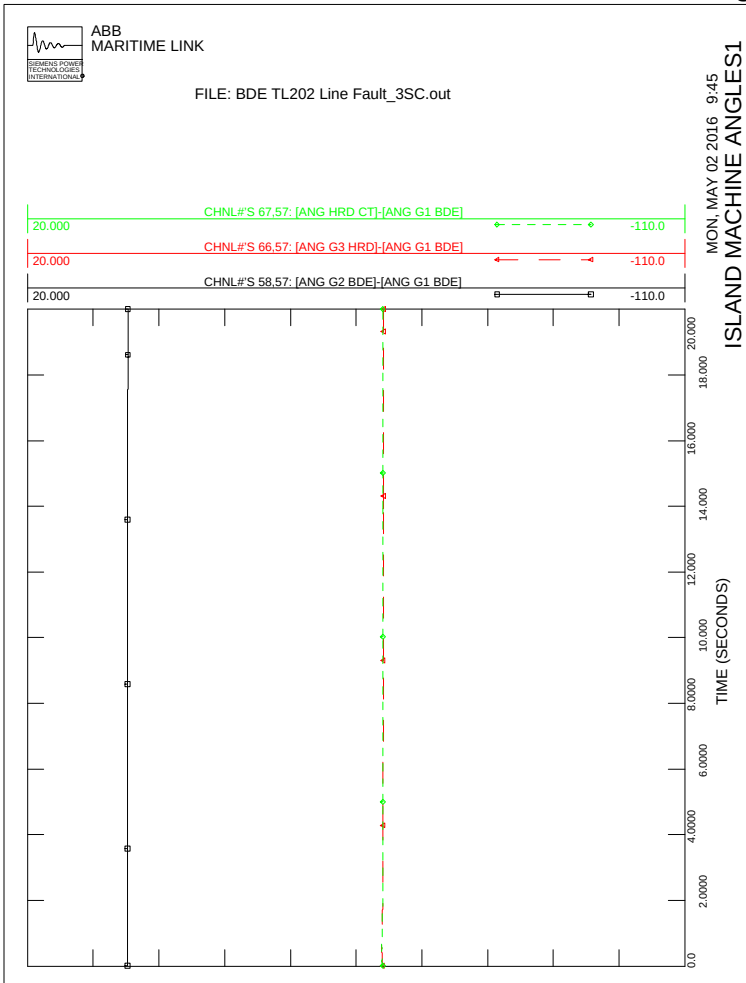
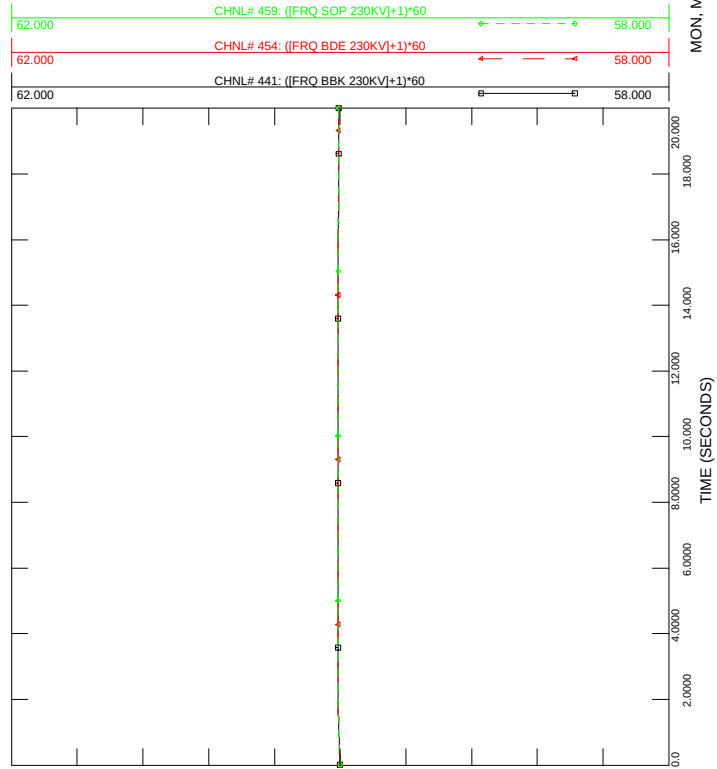
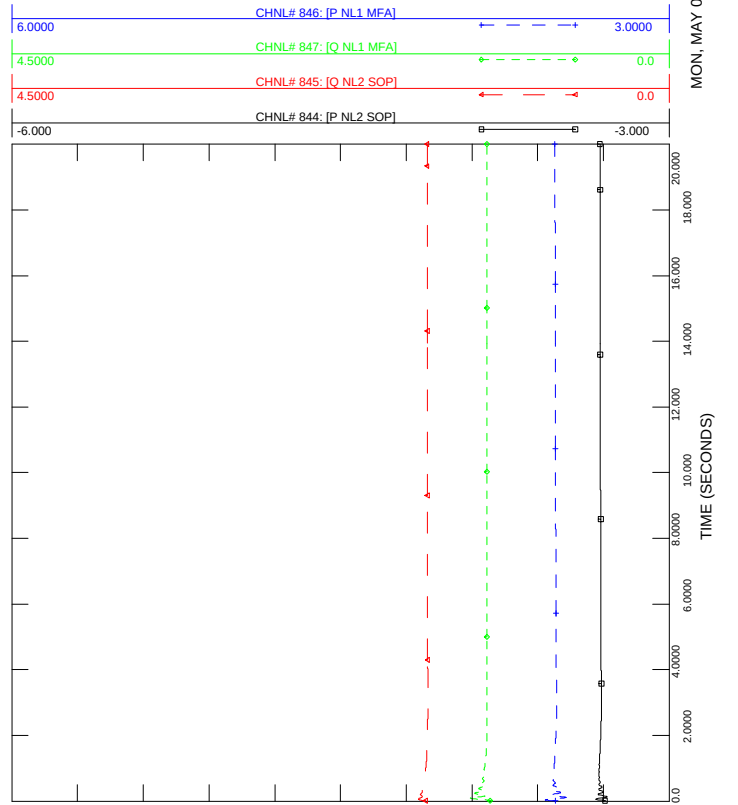


ABB
MARITIME LINK

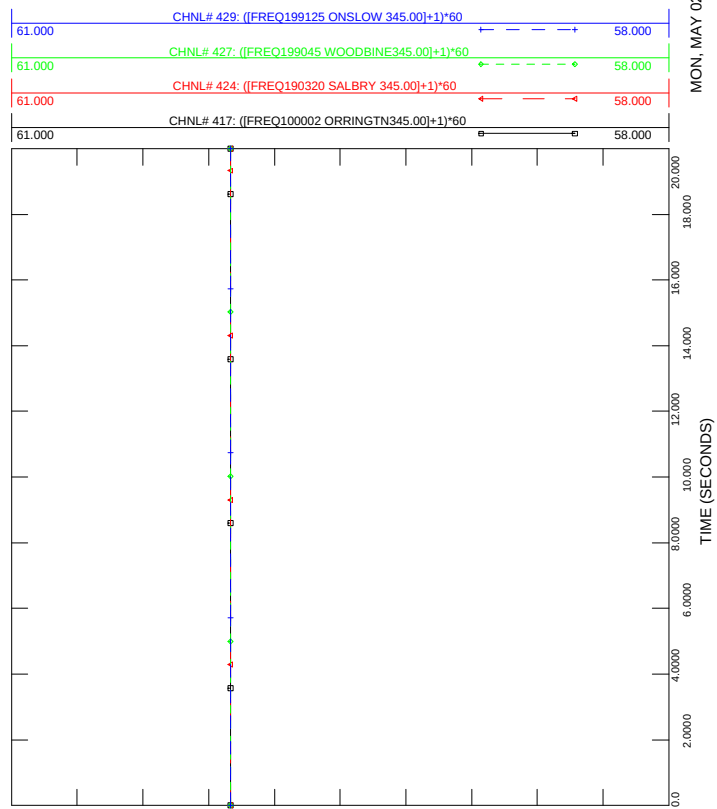
FILE: BDE TL202 Line Fault_3SC.out

ABB
MARITIME LINK

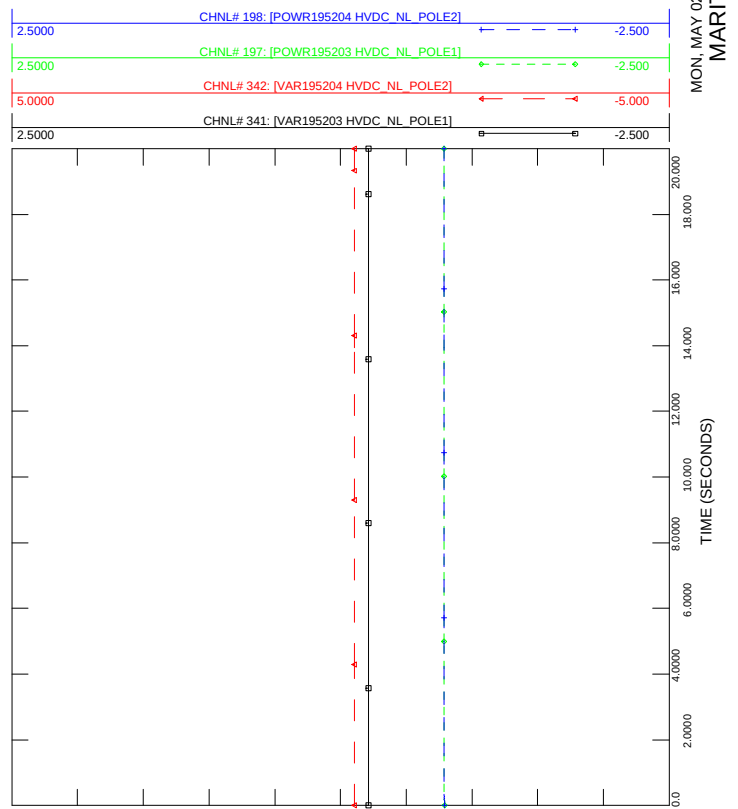
FILE: BDE TL202 Line Fault_3SC.out

ABB
MARITIME LINK

FILE: BDE TL202 Line Fault_3SC.out

ABB
MARITIME LINK

FILE: BDE TL202 Line Fault_3SC.out



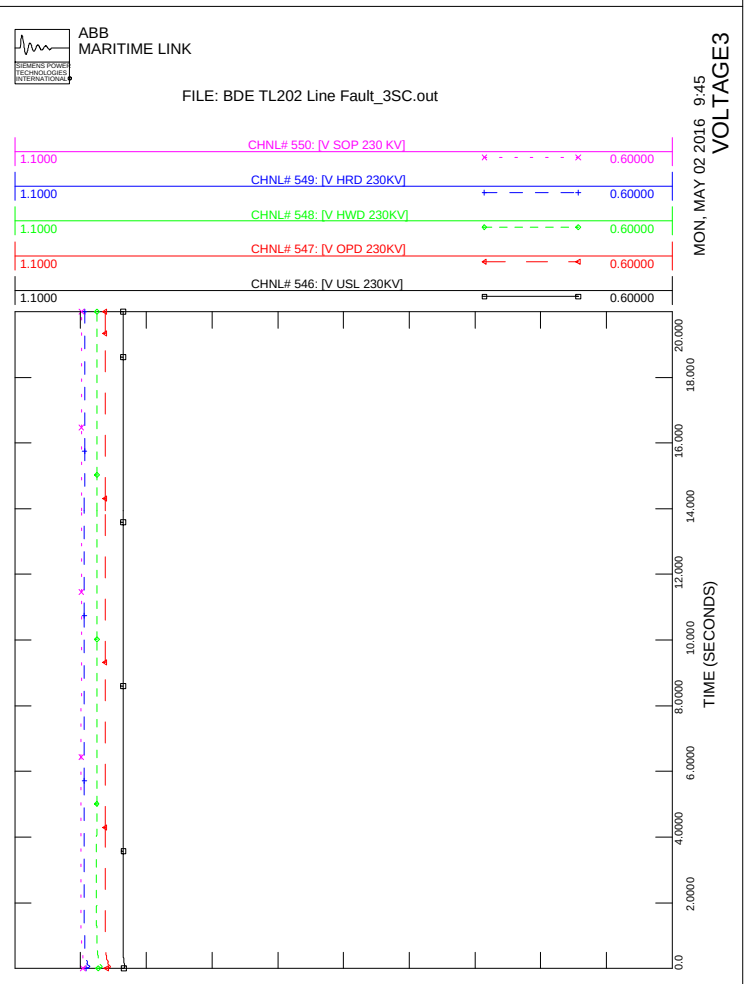
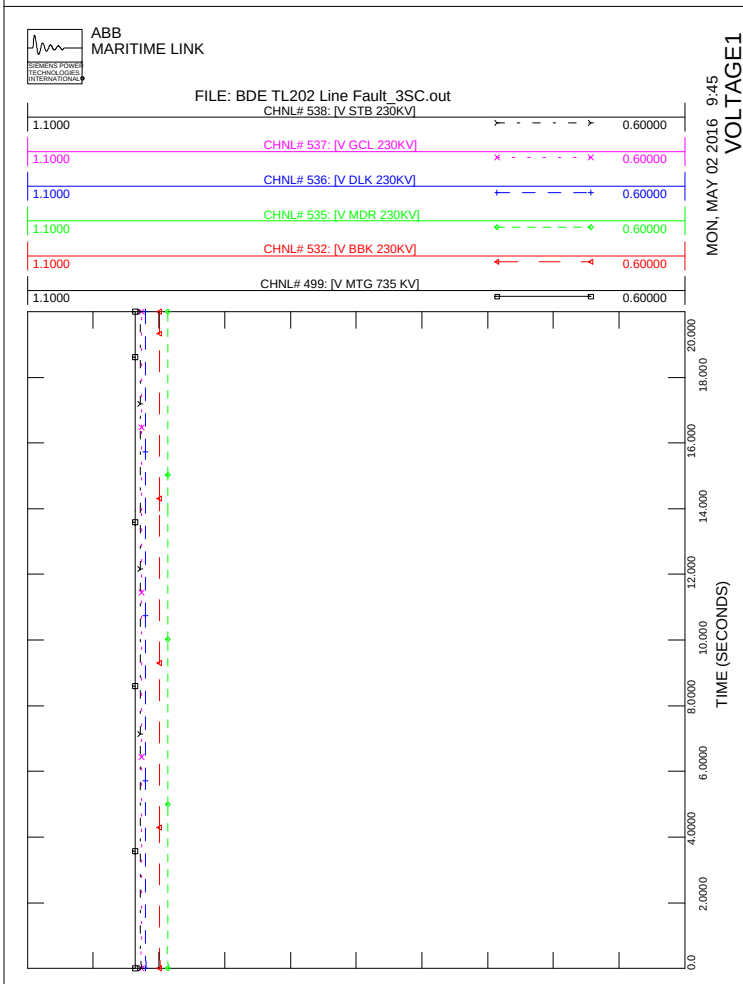
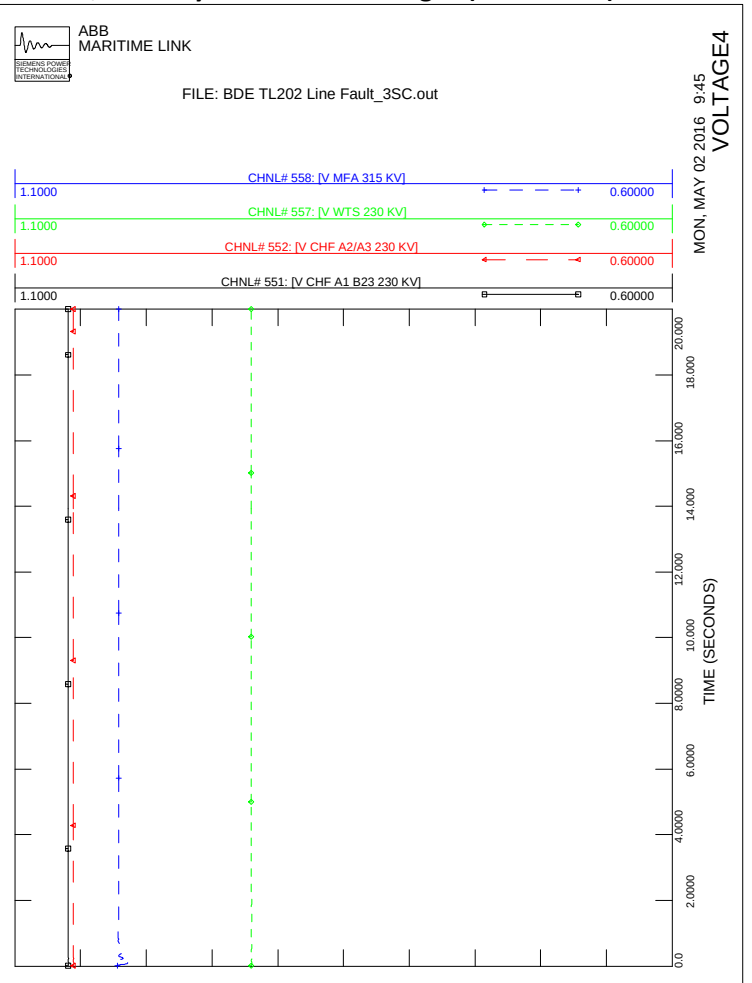
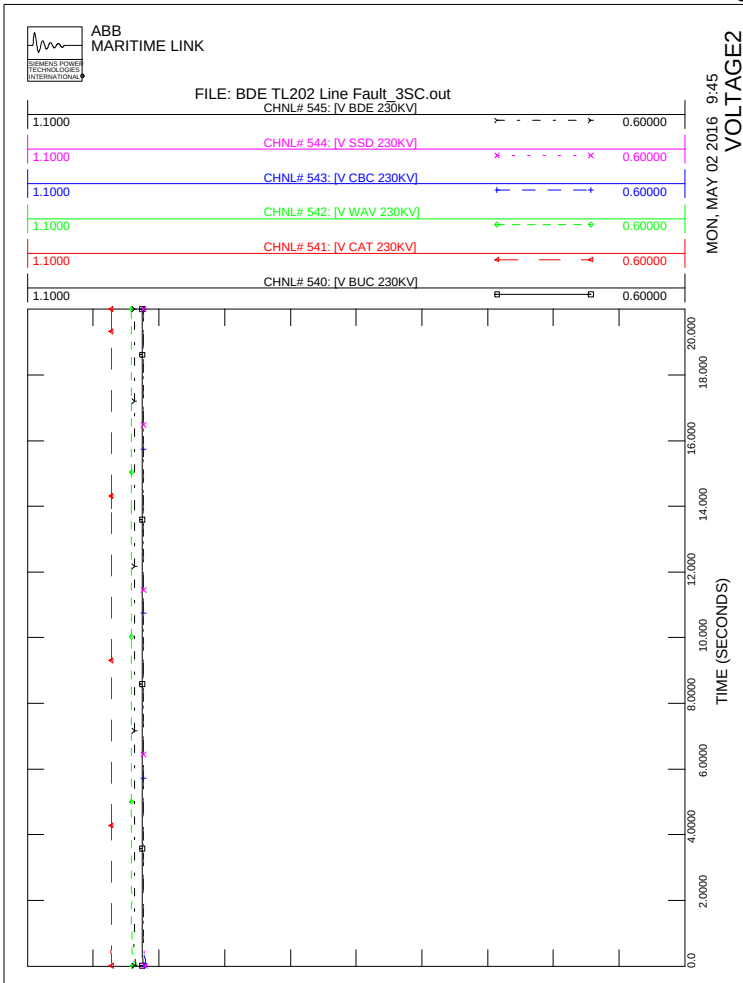
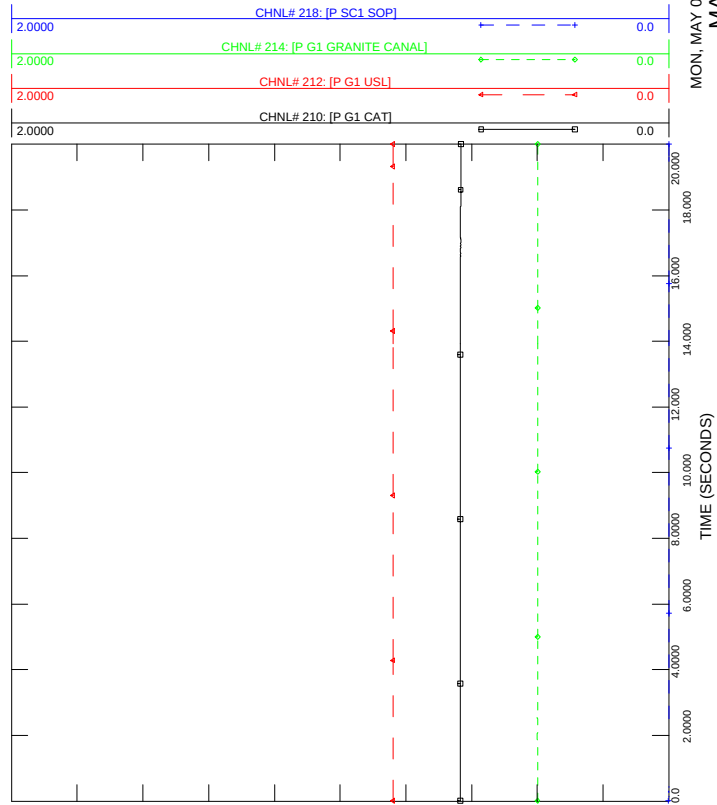
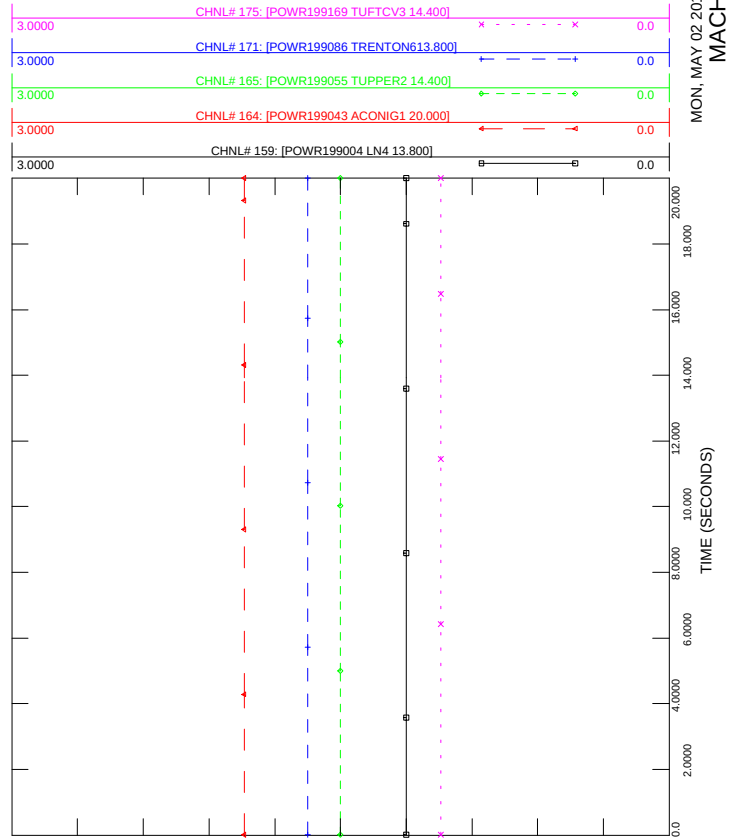


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MARITIME LINK

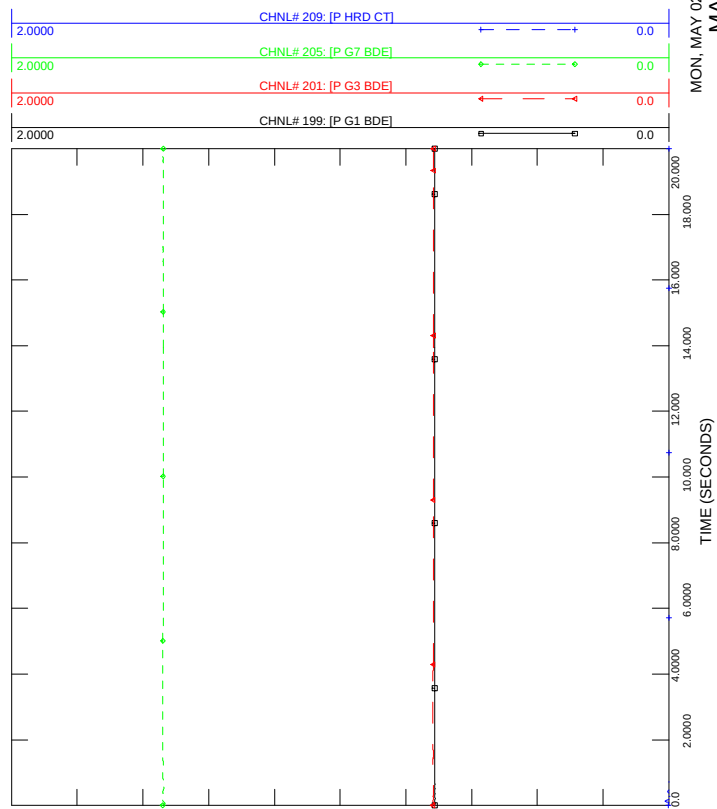
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ABB
MARITIME LINK

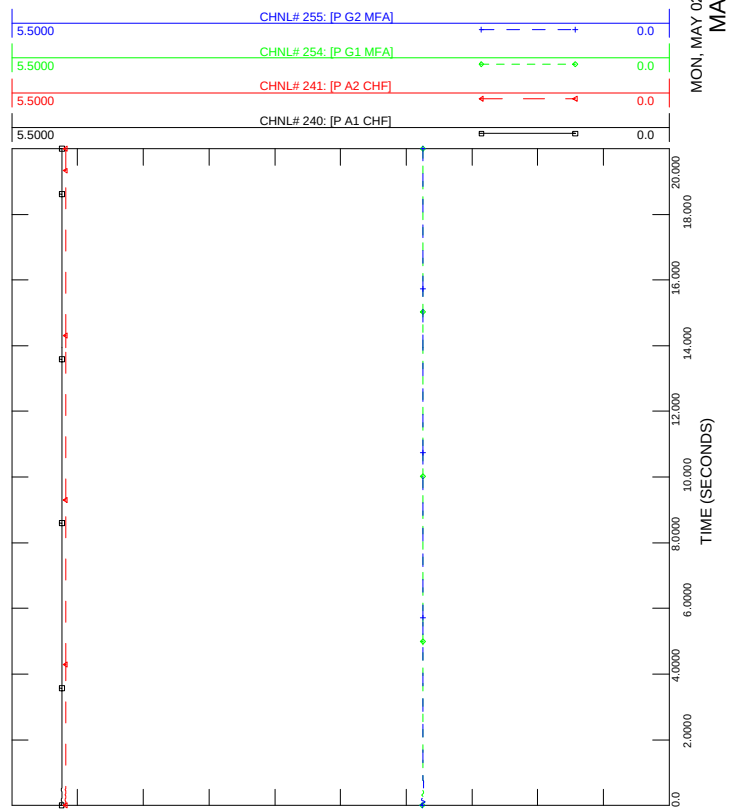
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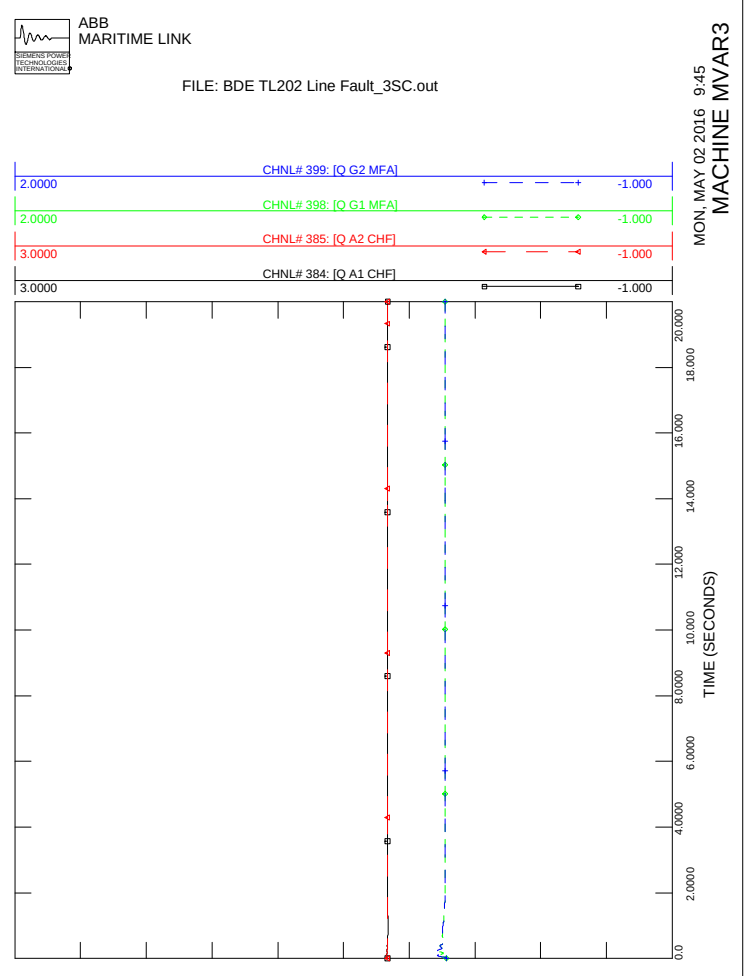
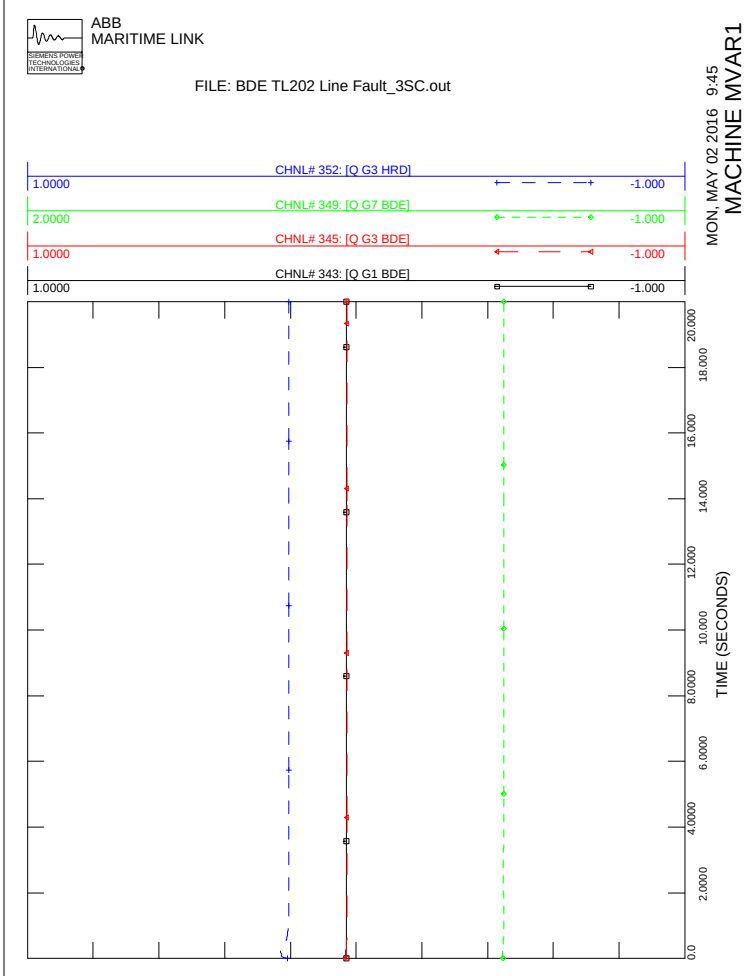
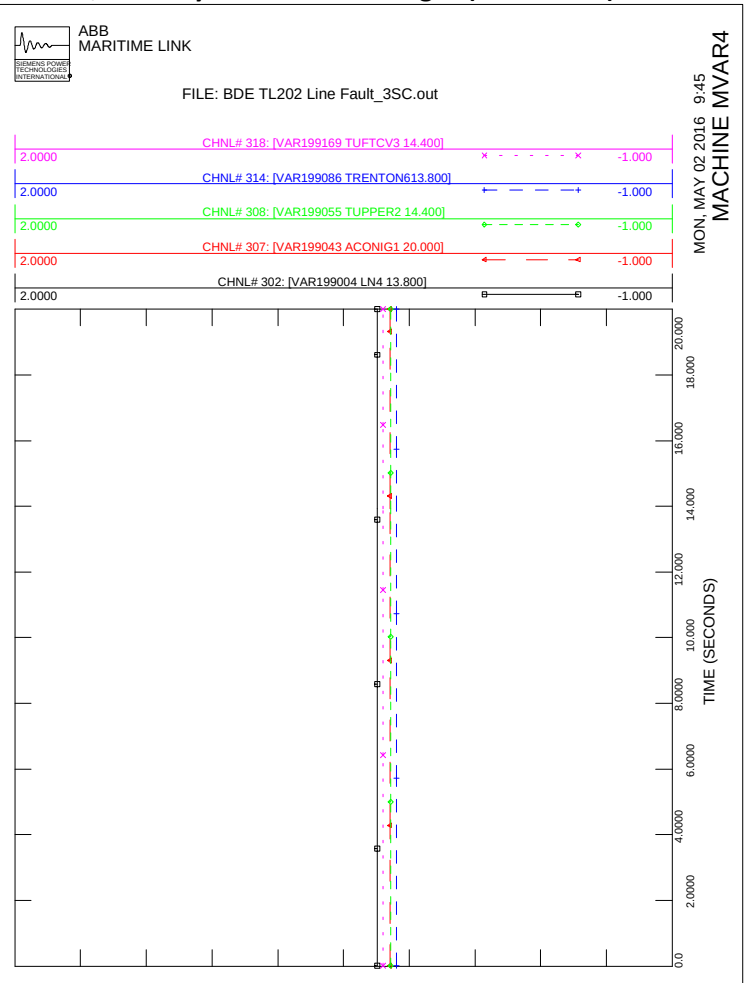
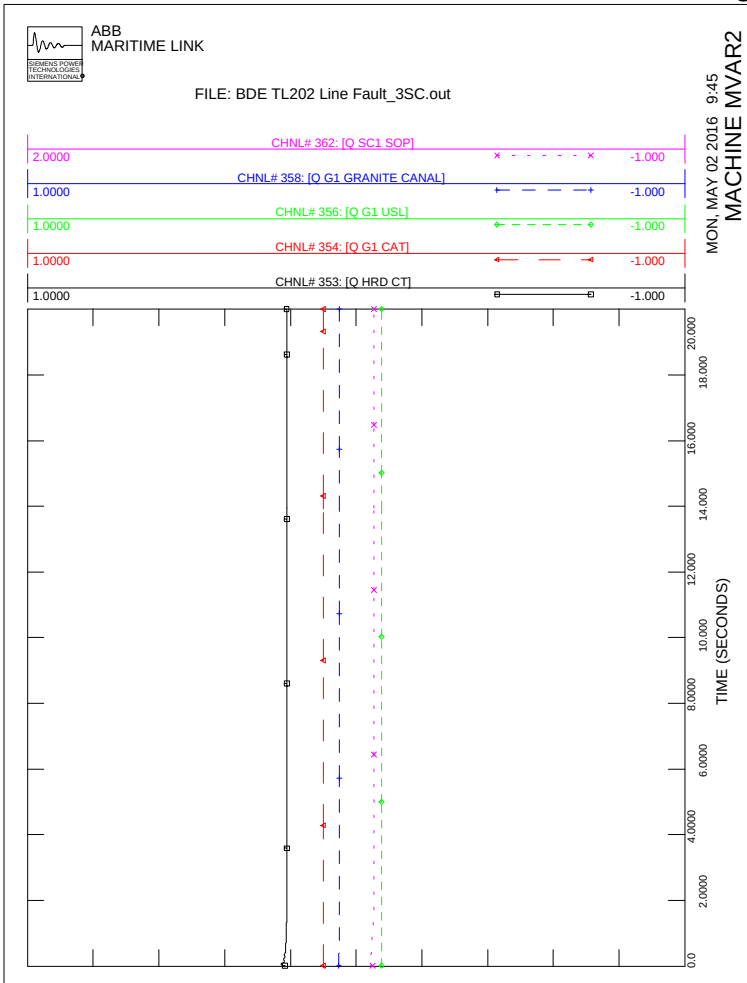
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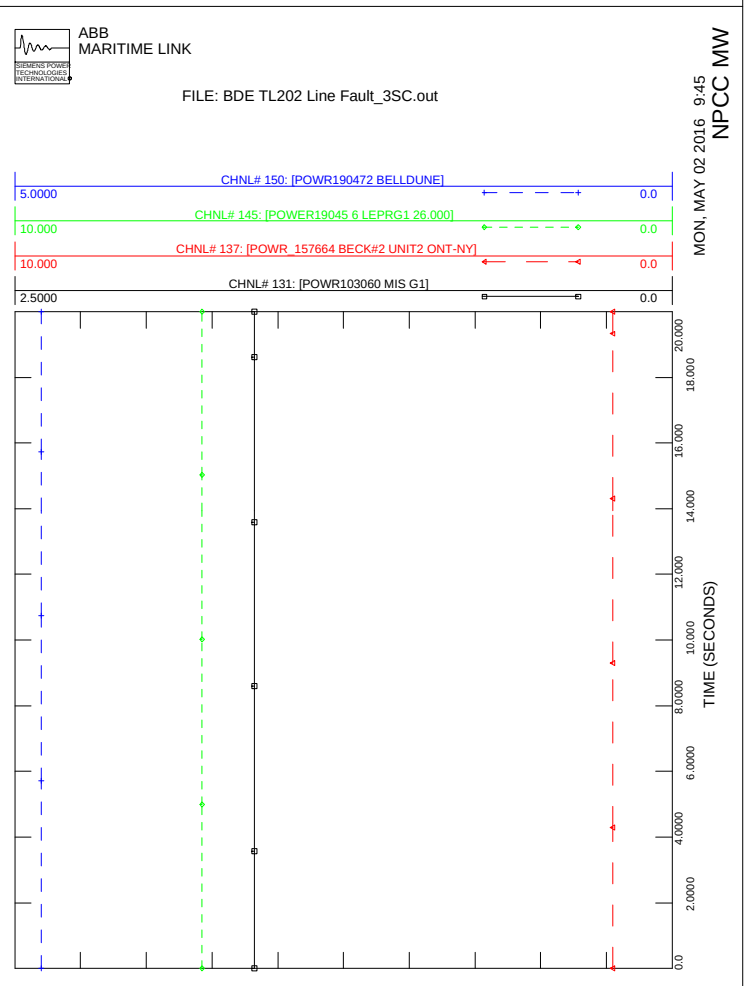
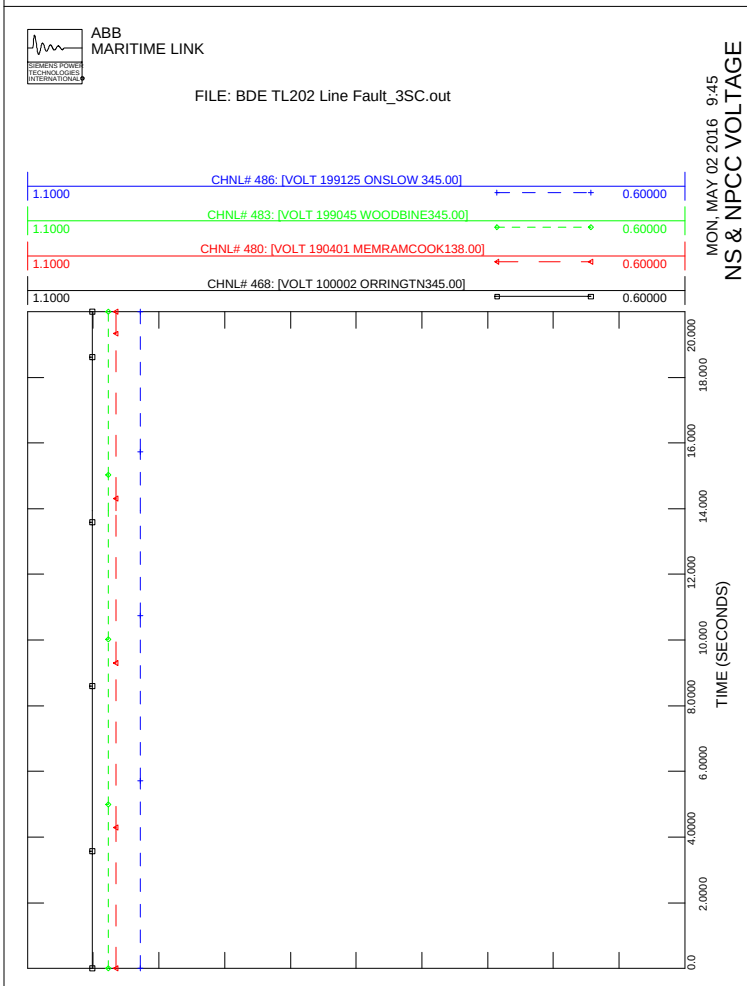
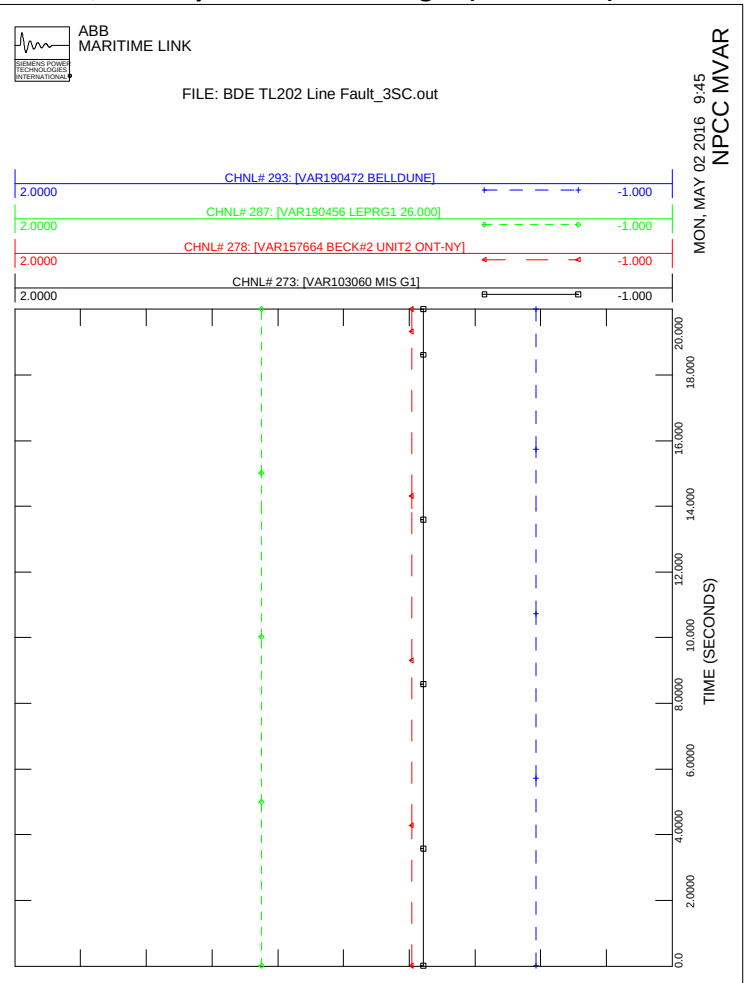
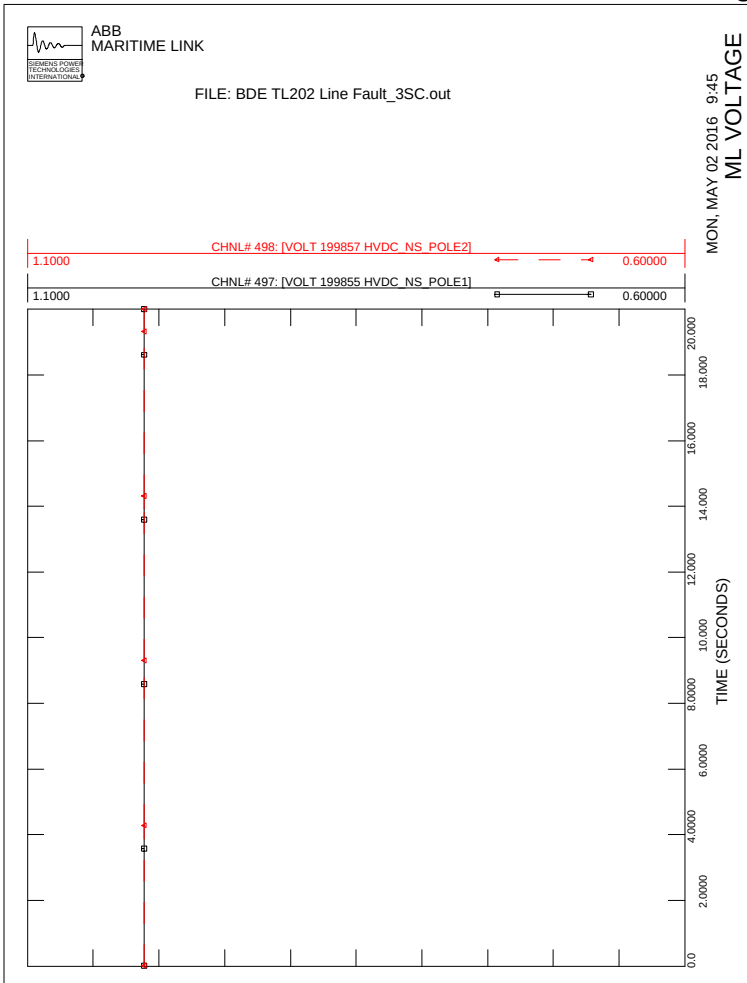
FILE: BDE TL202 Line Fault_3SC.out

ABB
MARITIME LINK

FILE: BDE TL202 Line Fault_3SC.out







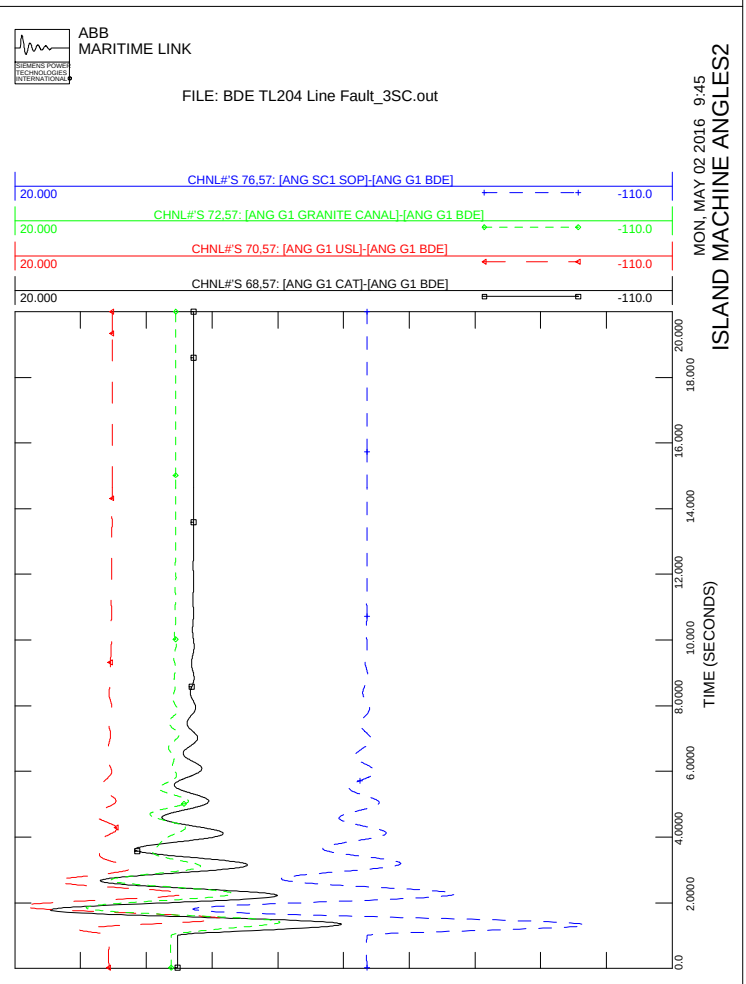
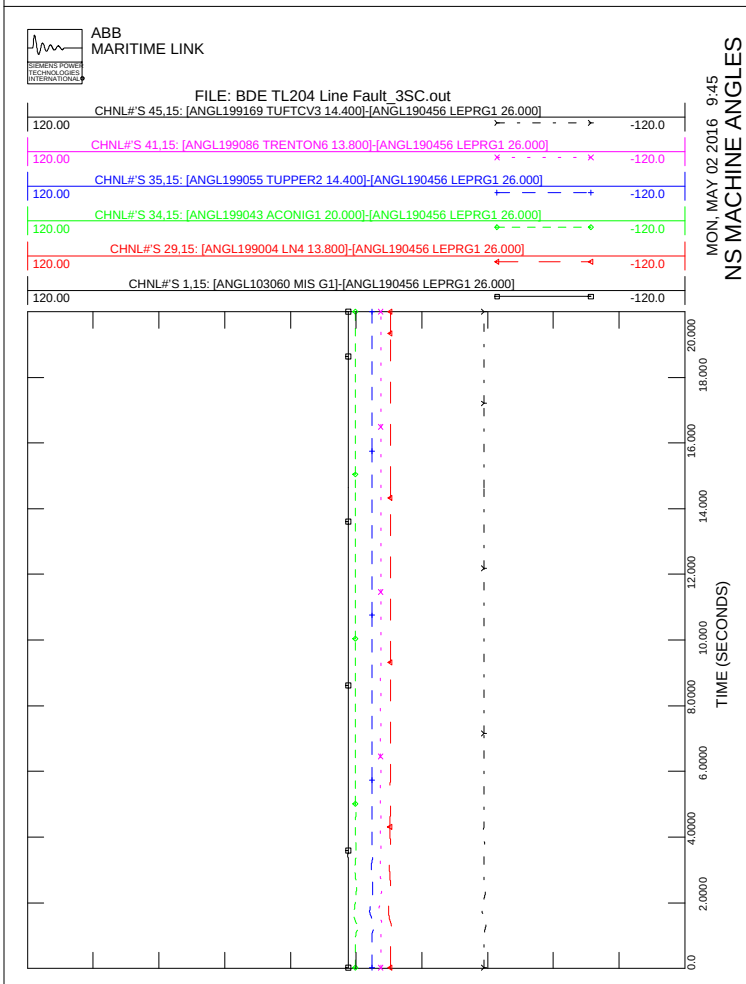
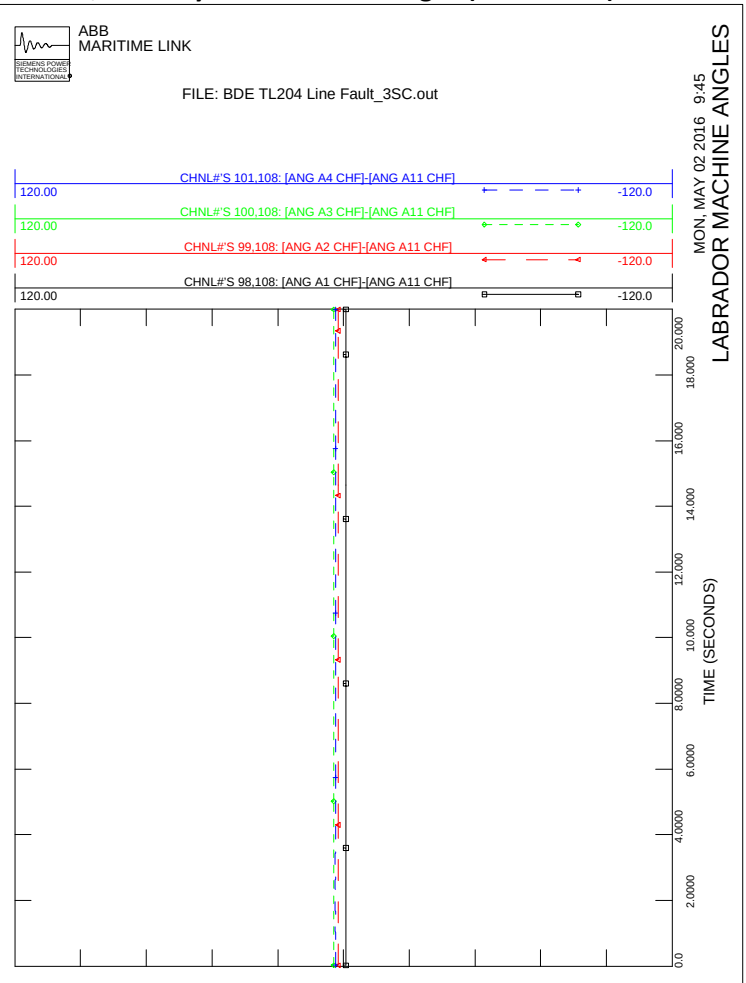
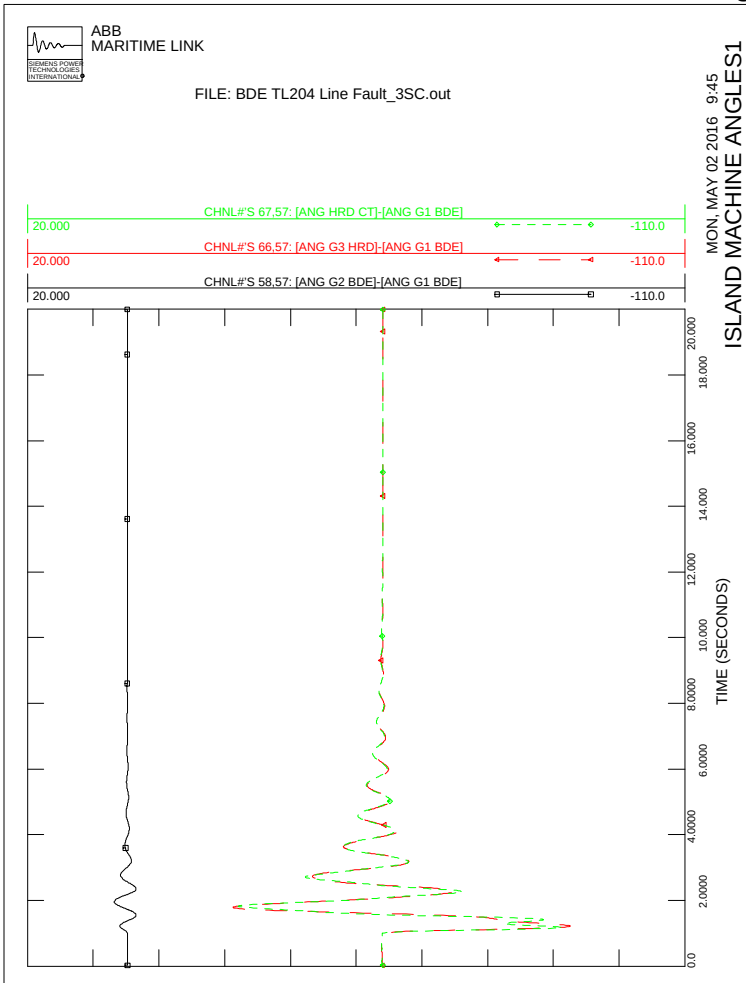
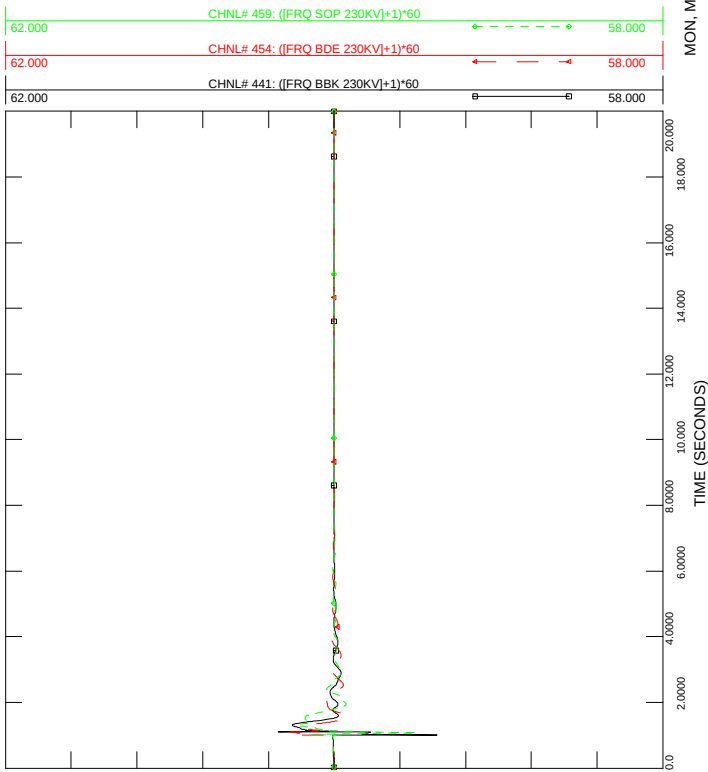
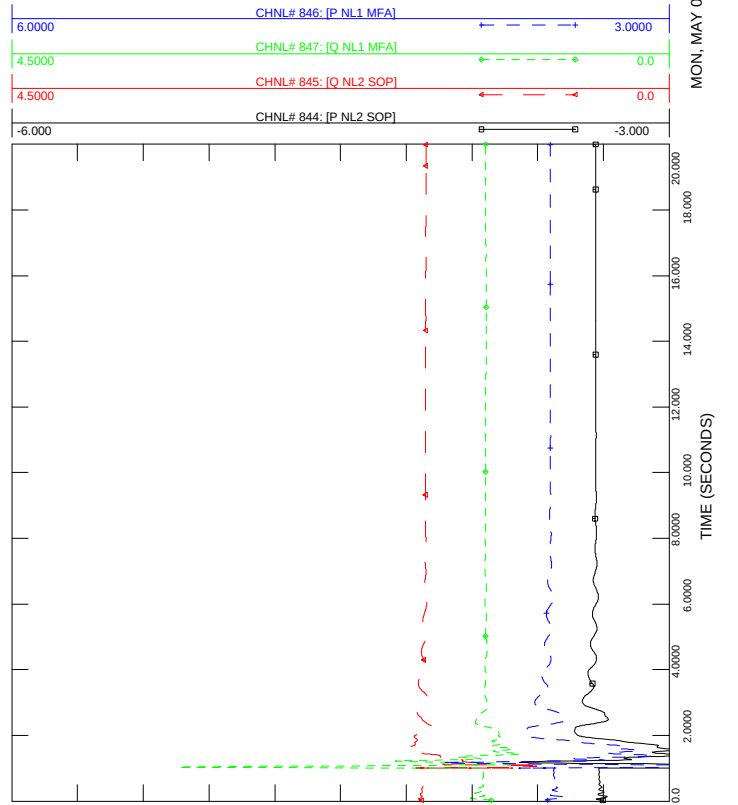


ABB
MARITIME LINK

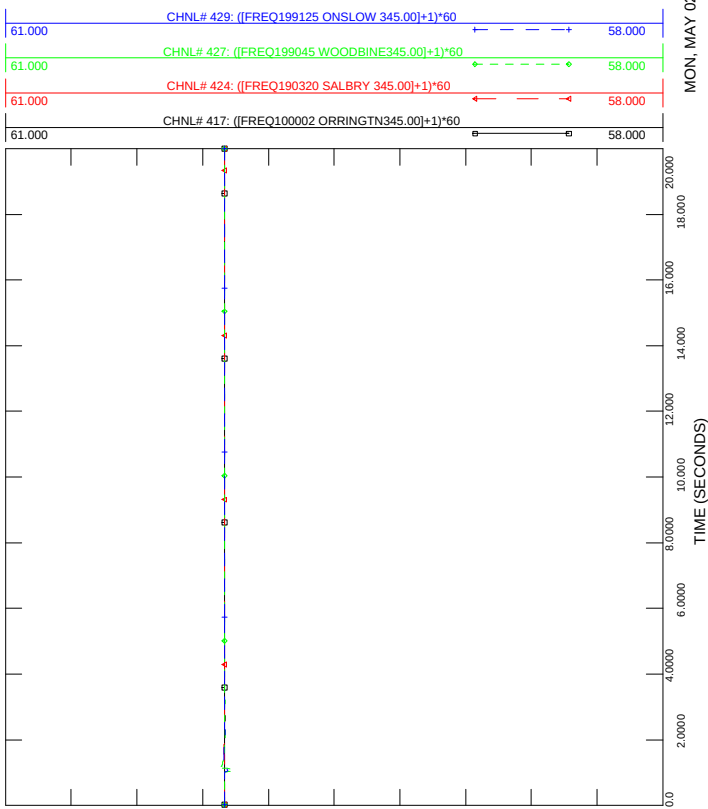
FILE: BDE TL204 Line Fault_3SC.out

ABB
MARITIME LINK

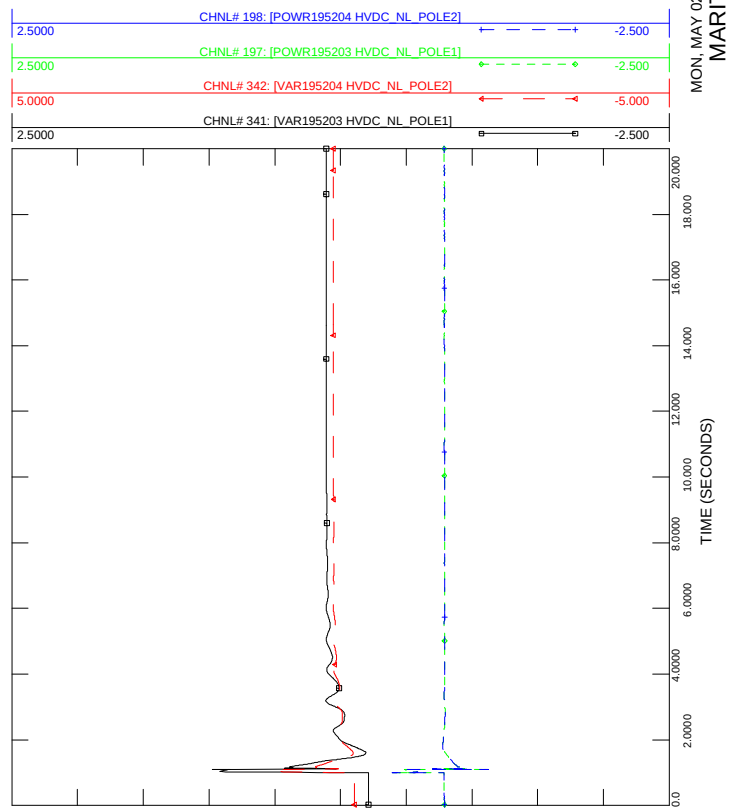
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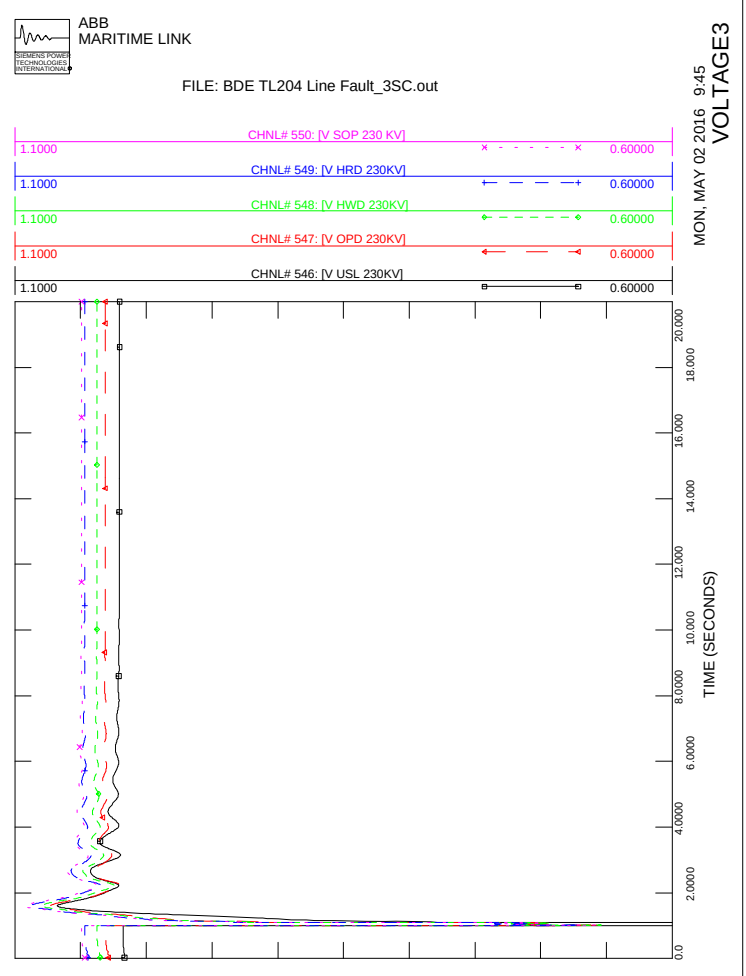
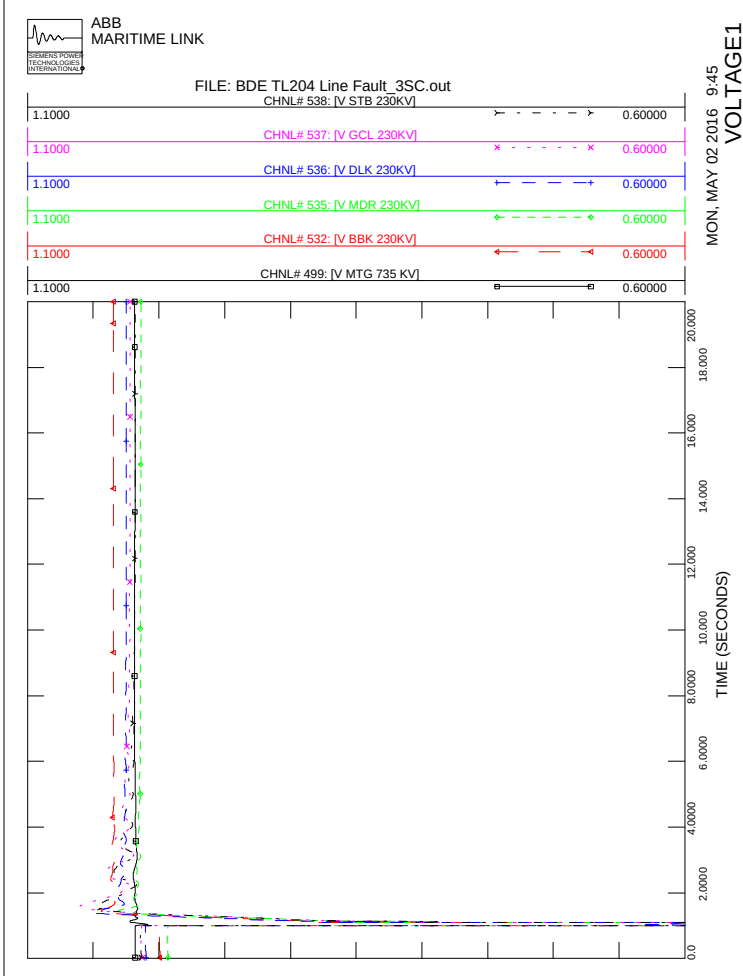
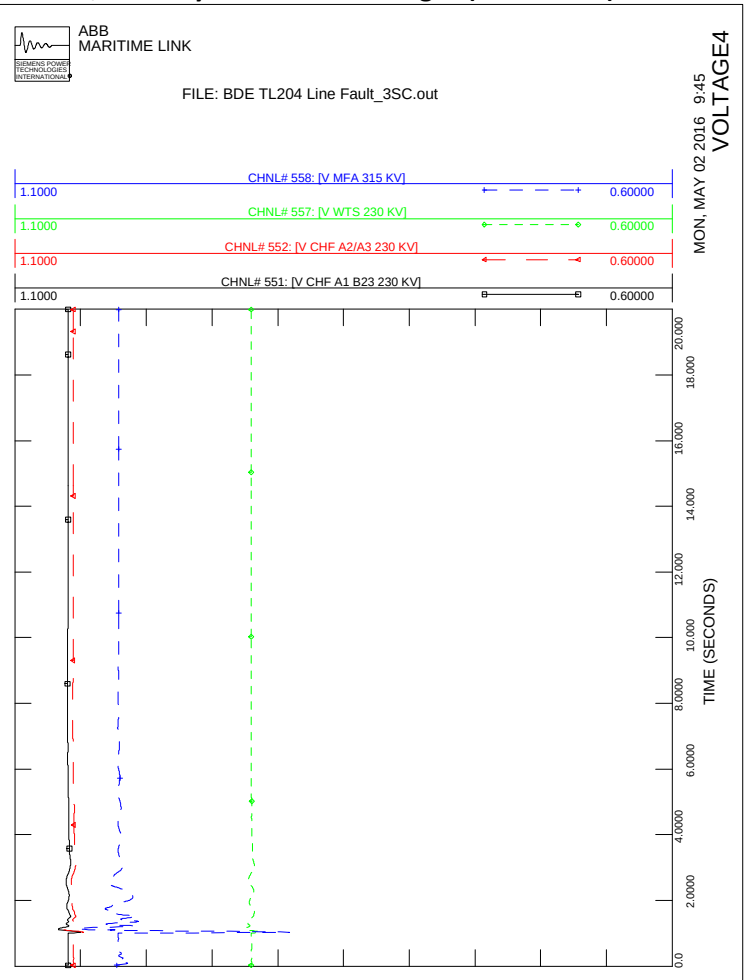
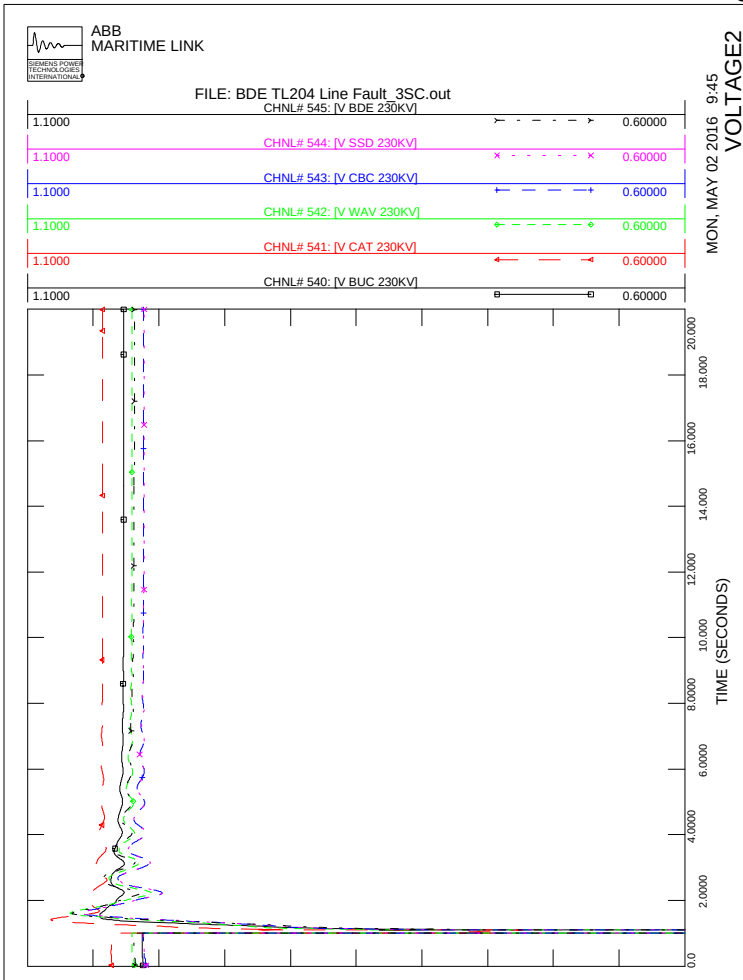
ABB
MARITIME LINK

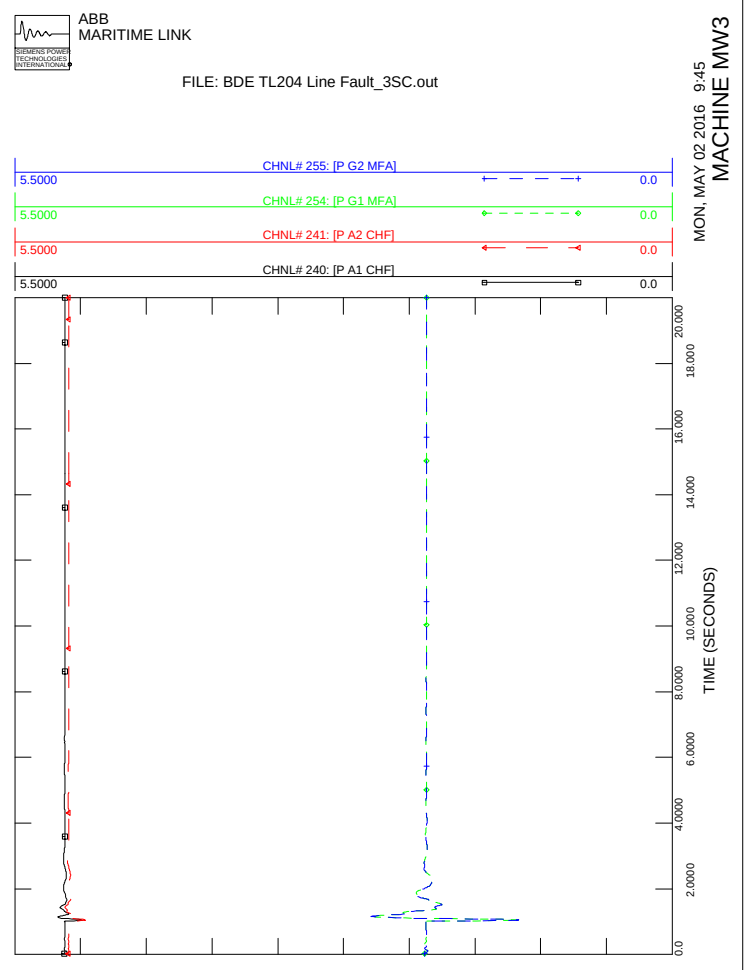
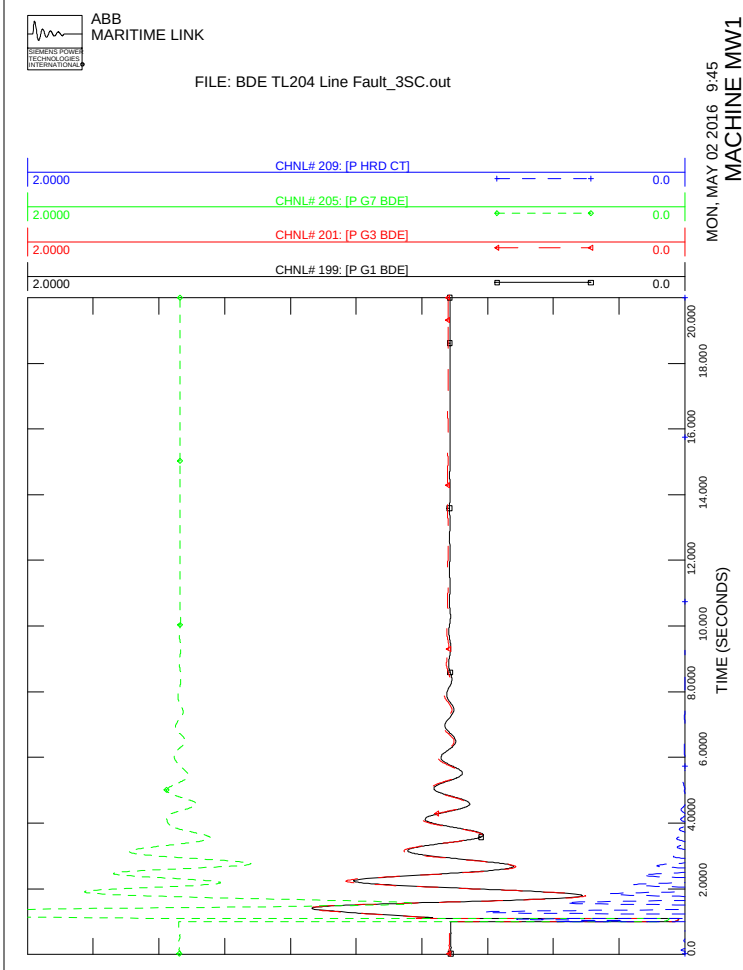
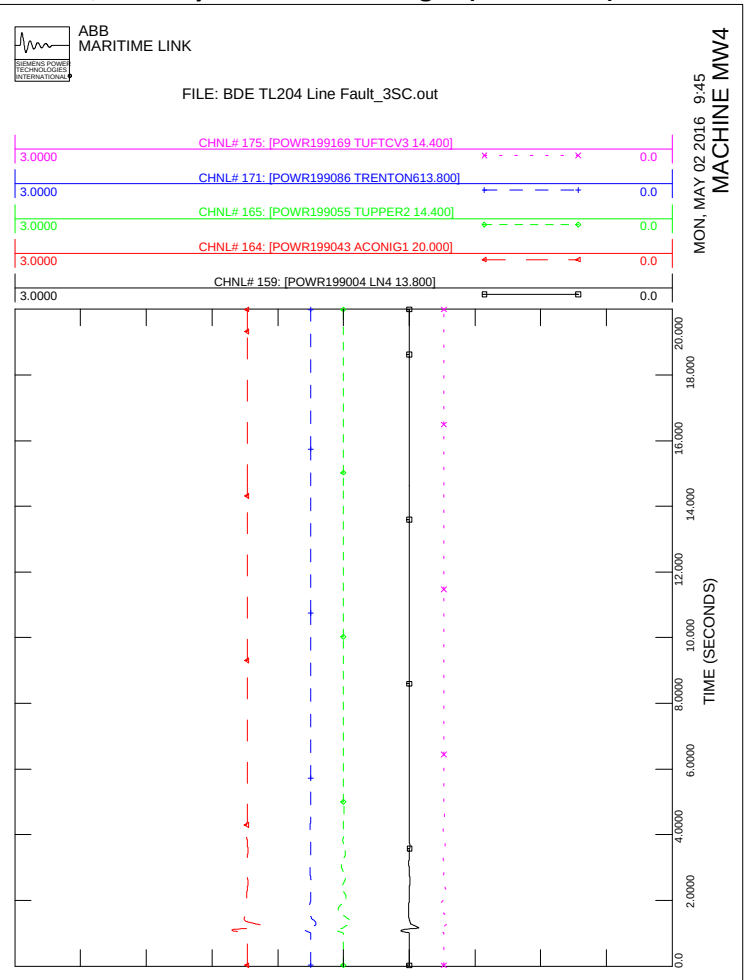
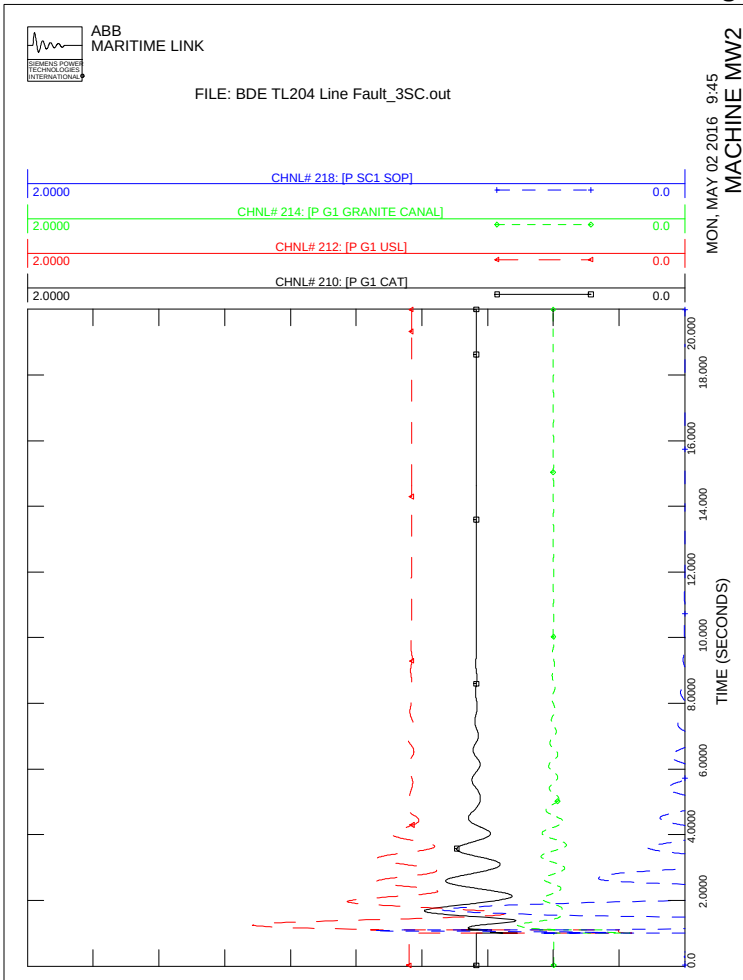
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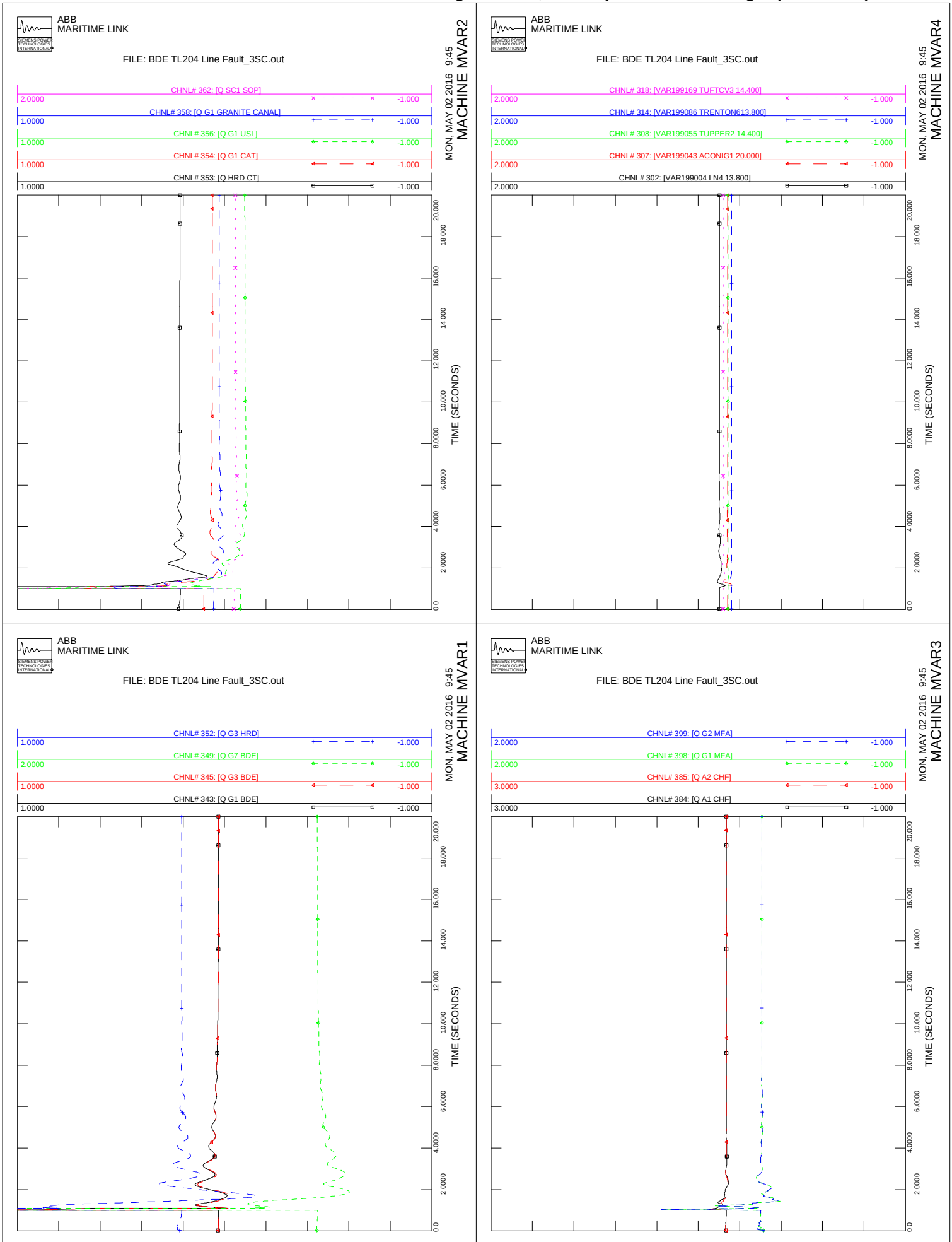
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MARITIME LINK

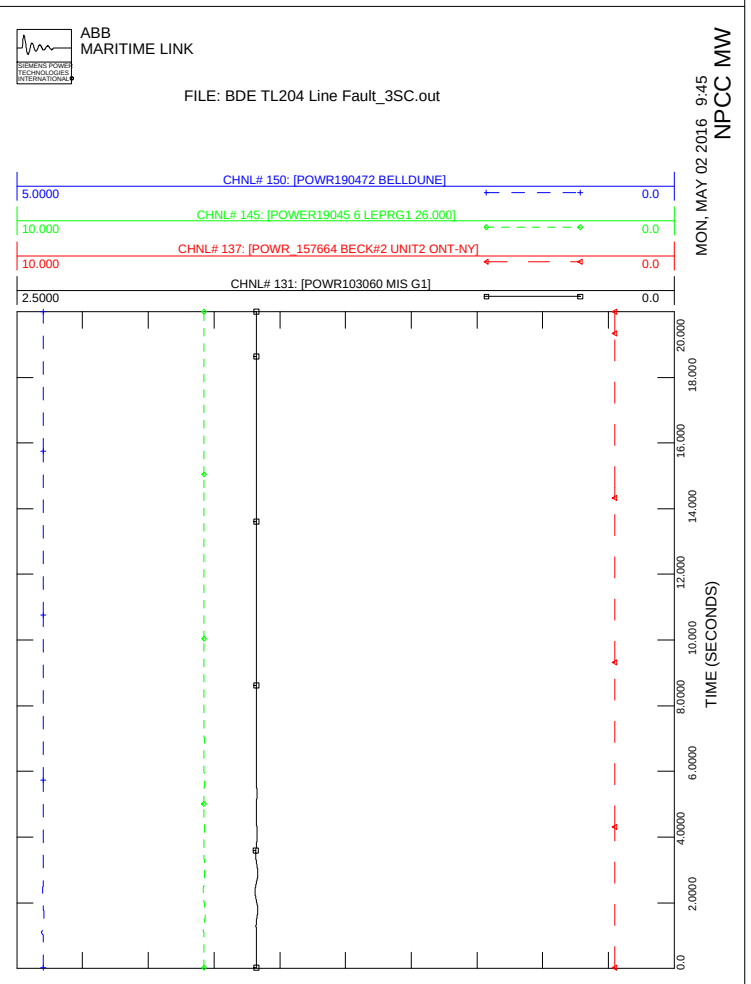
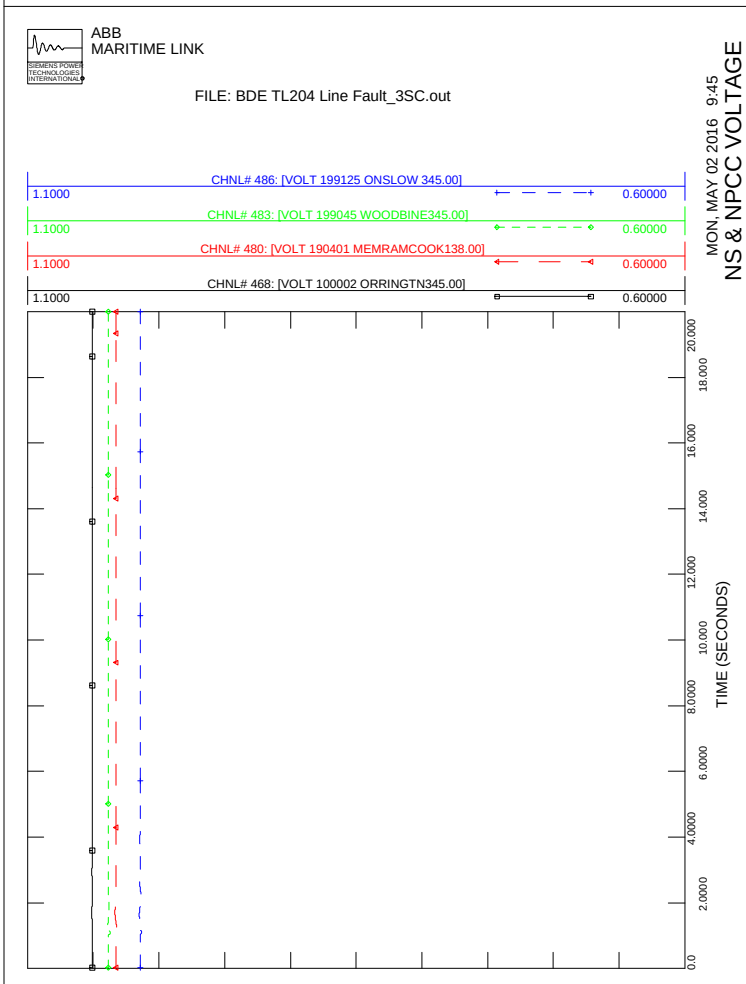
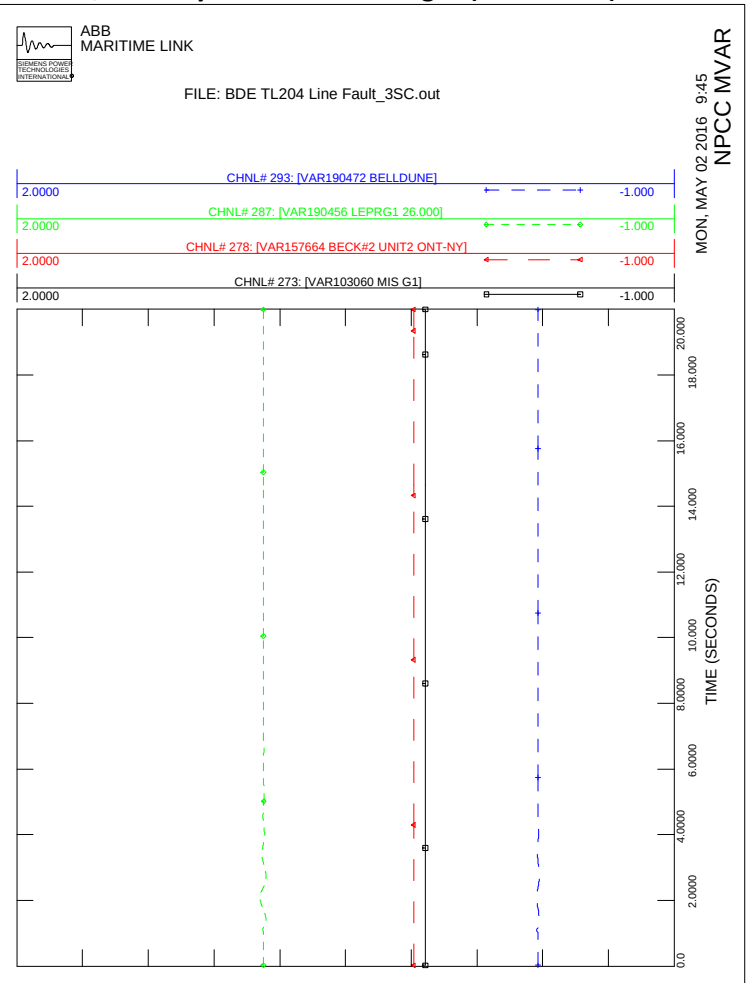
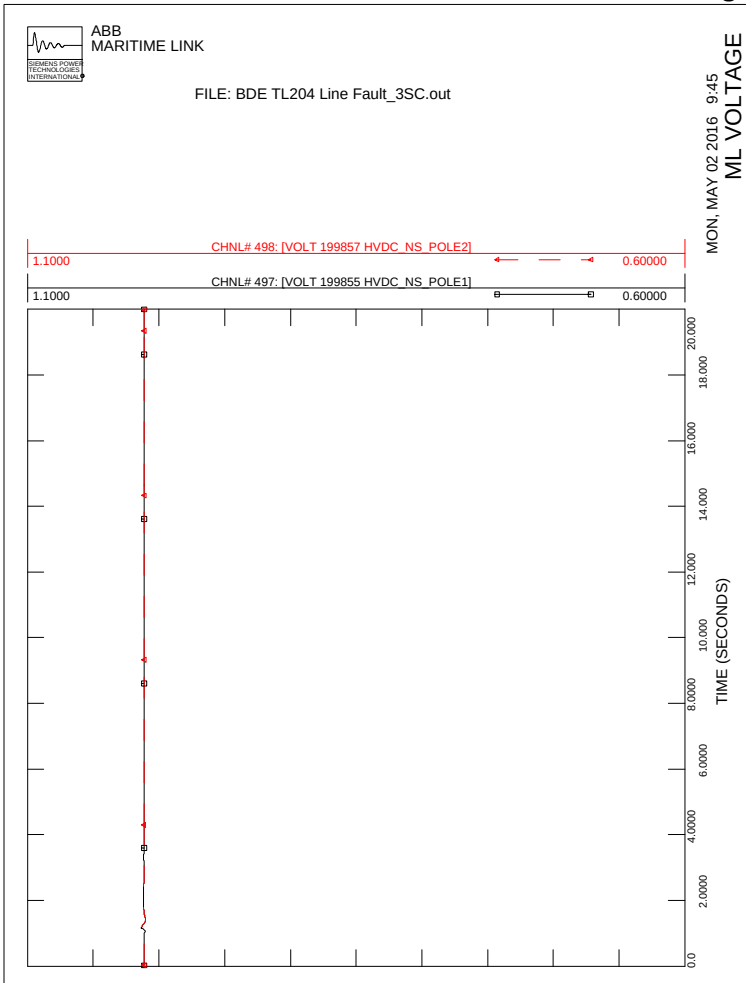
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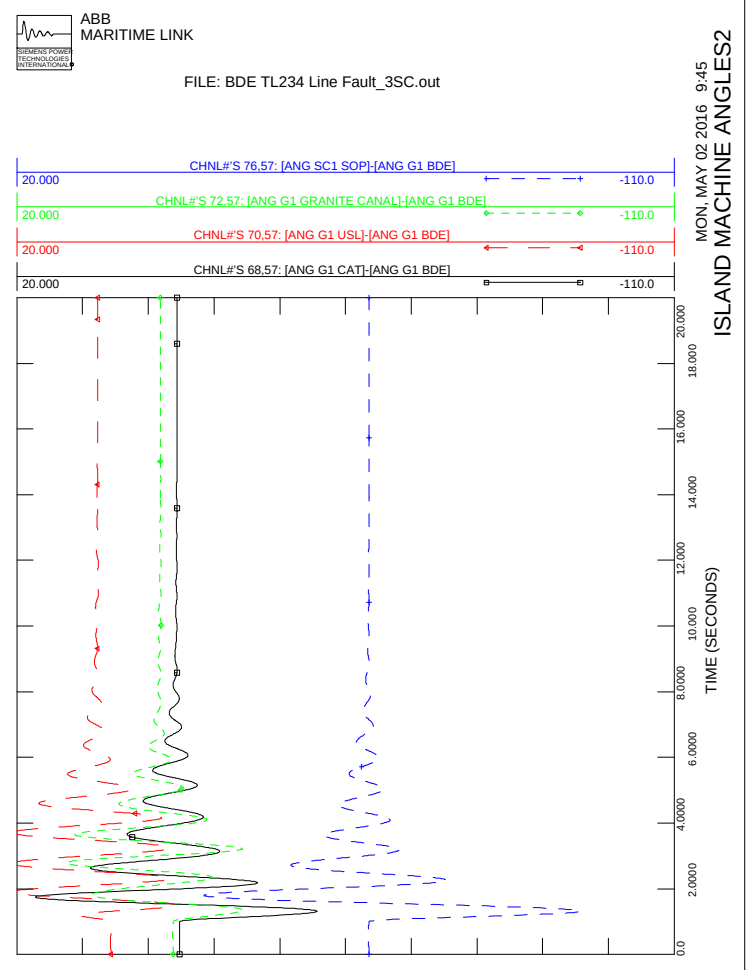
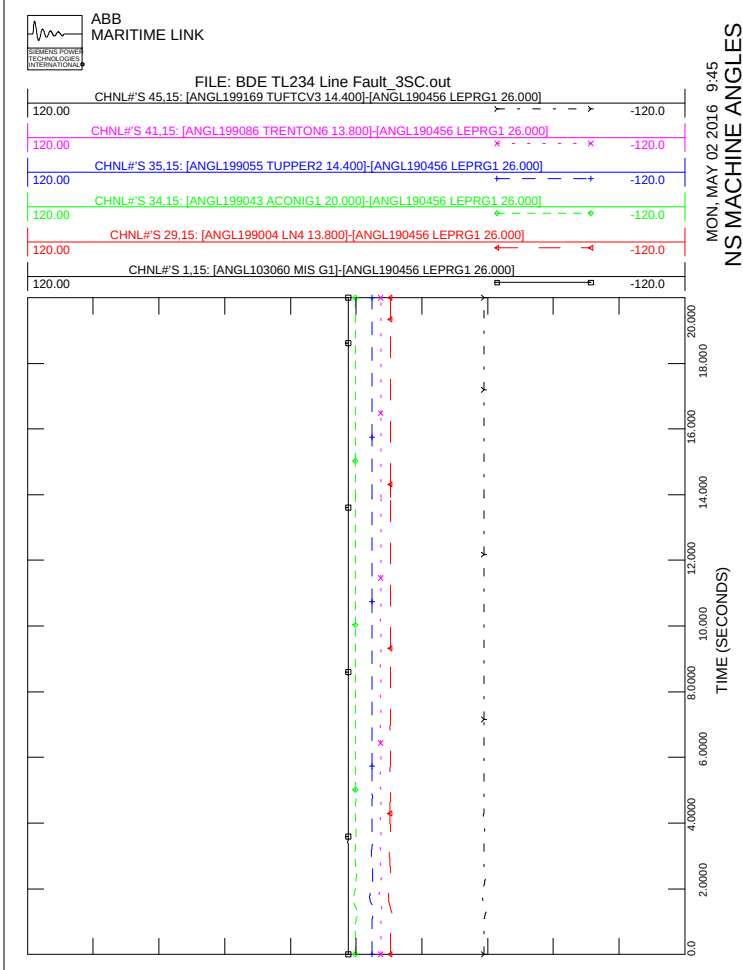
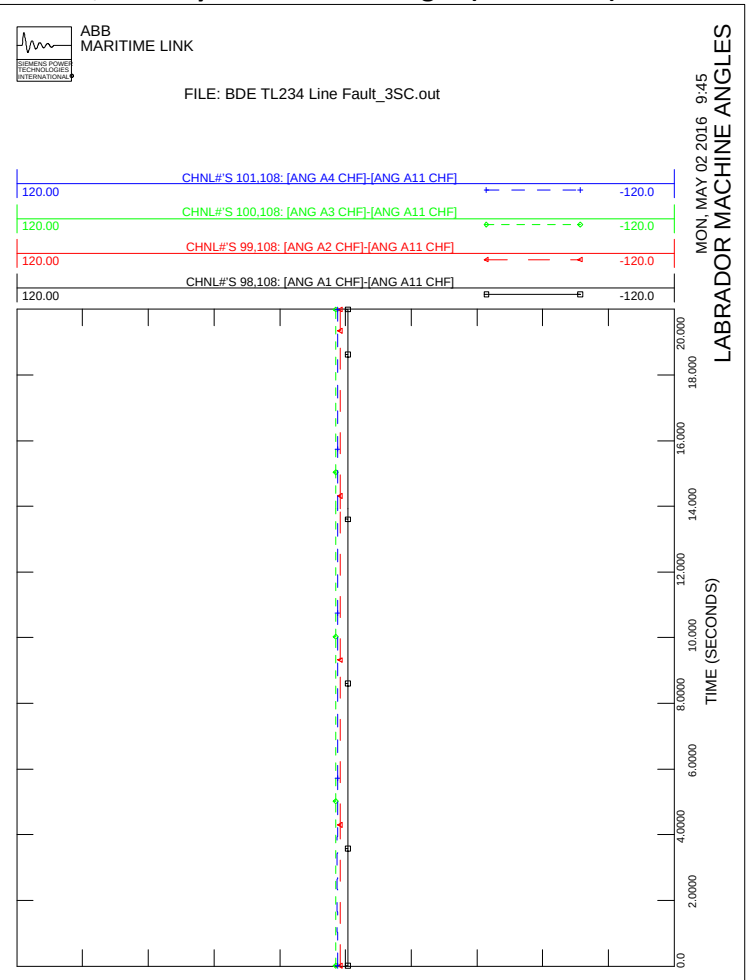
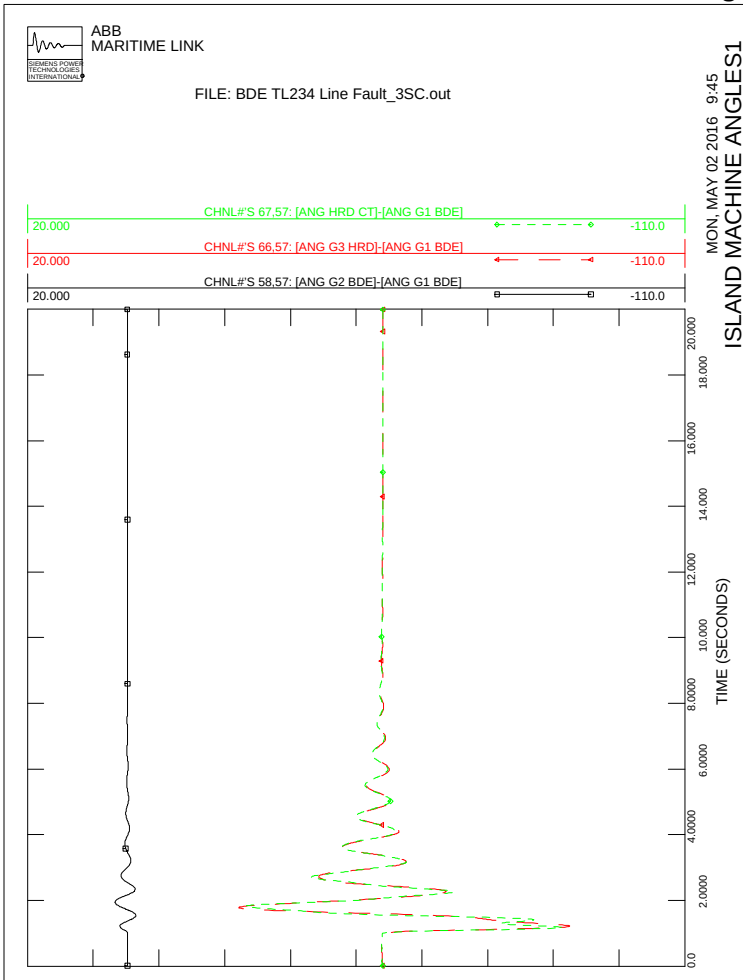
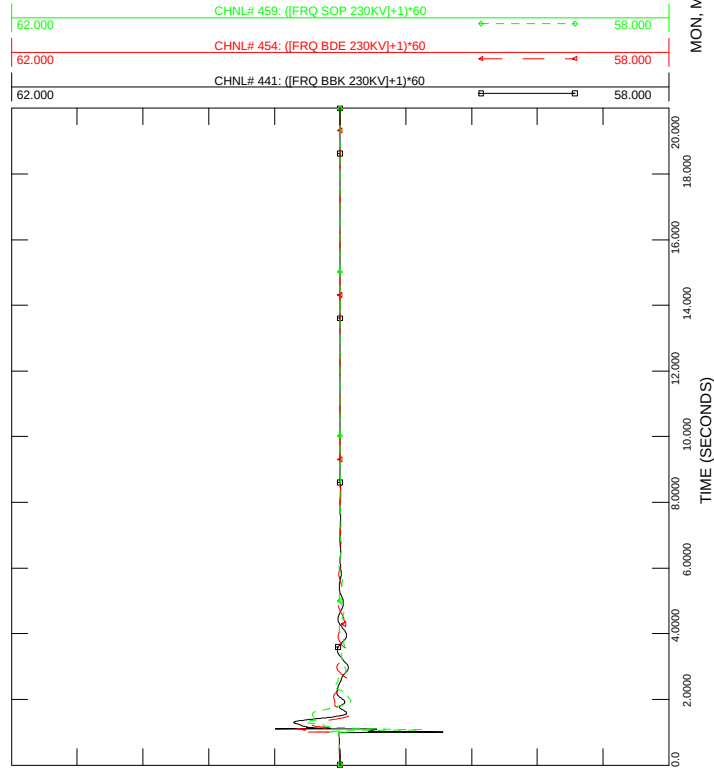
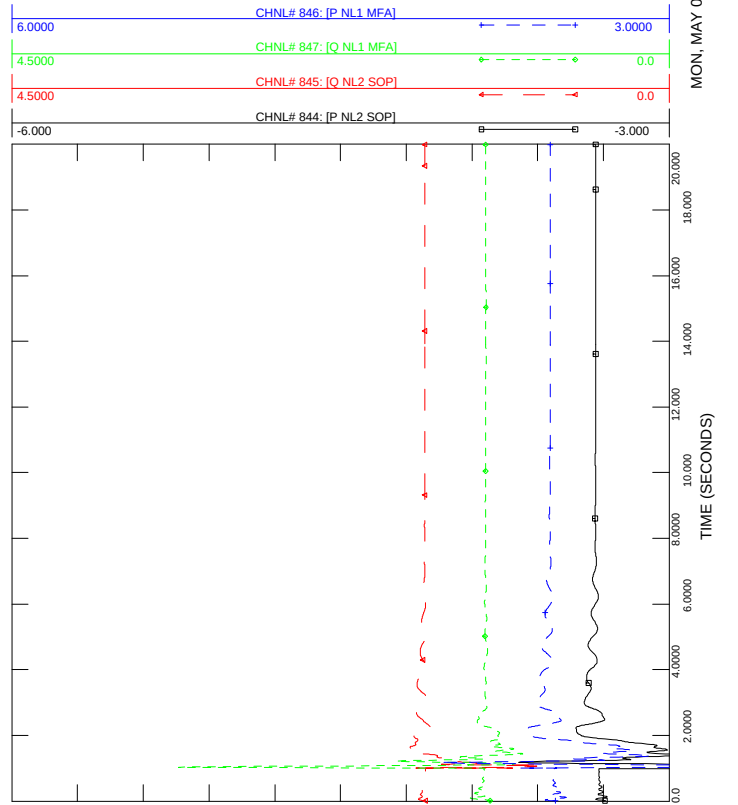


ABB
MARITIME LINK

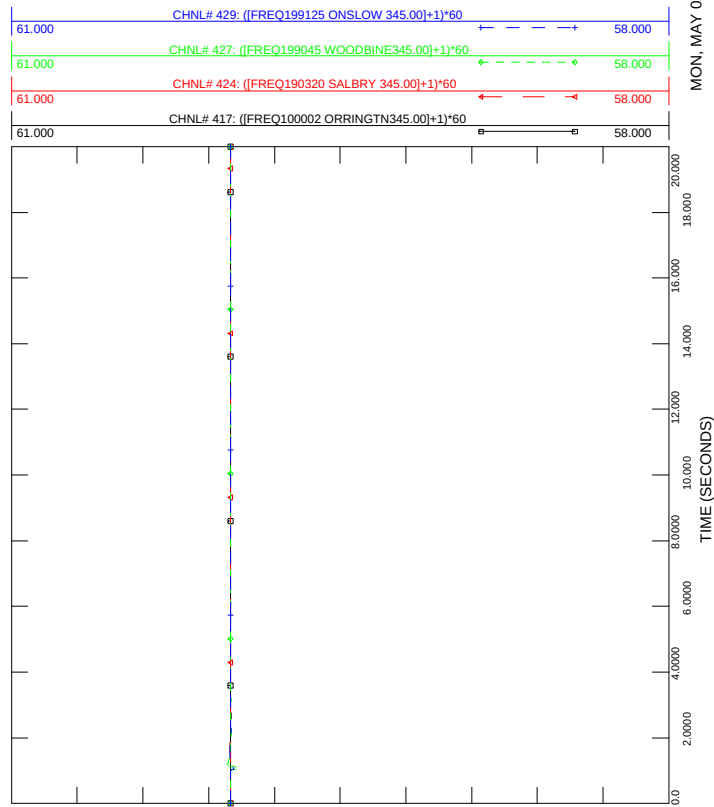
FILE: BDE TL234 Line Fault_3SC.out

ABB
MARITIME LINK

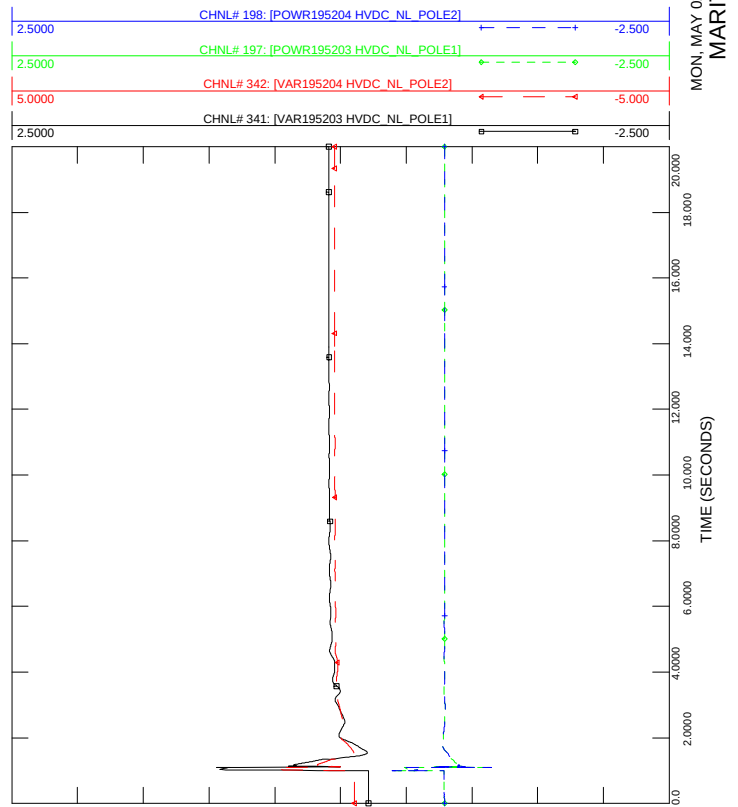
FILE: BDE TL234 Line Fault_3SC.out

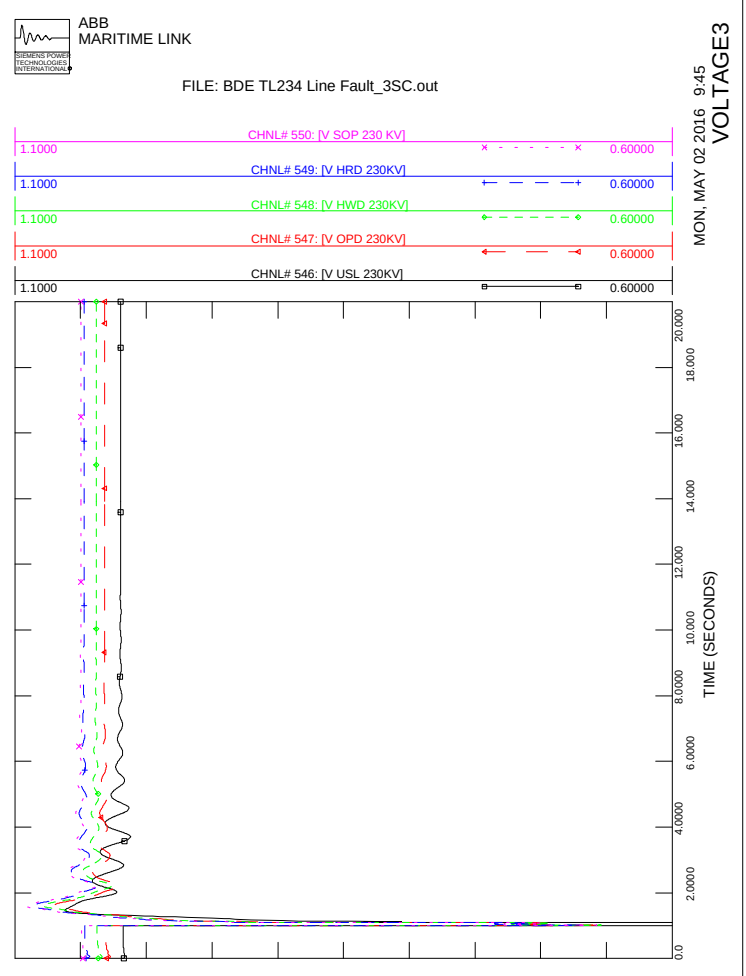
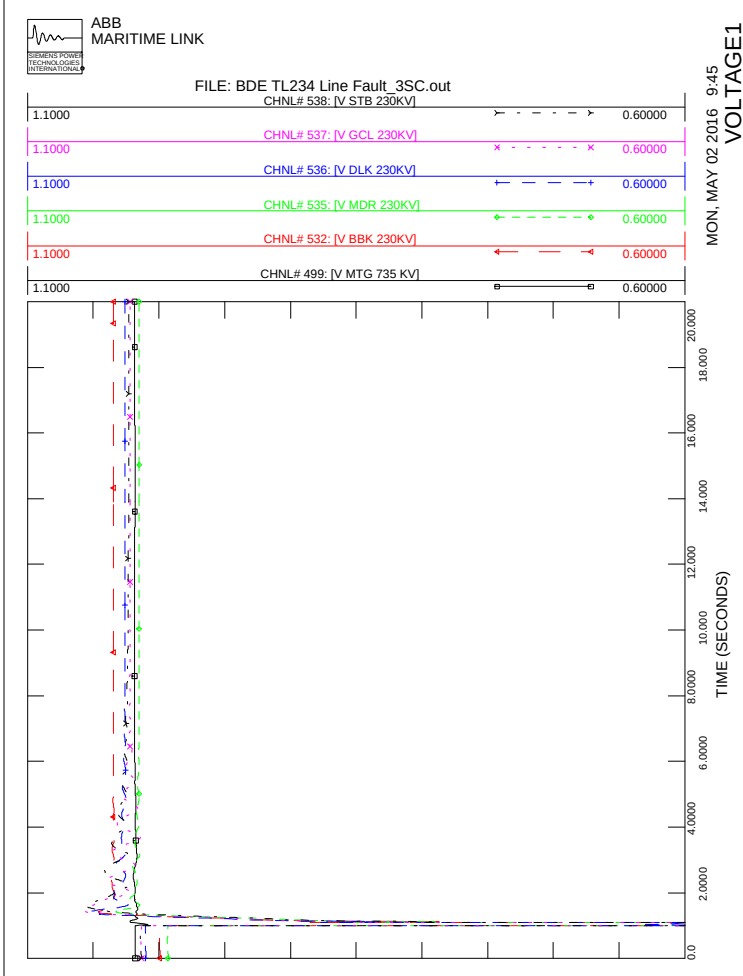
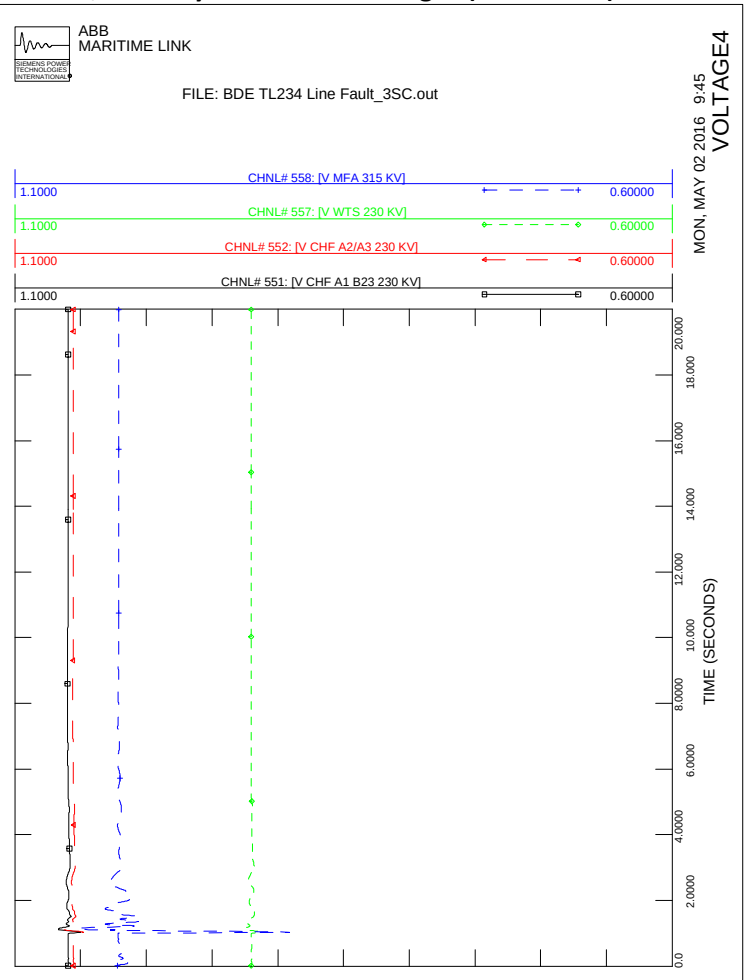
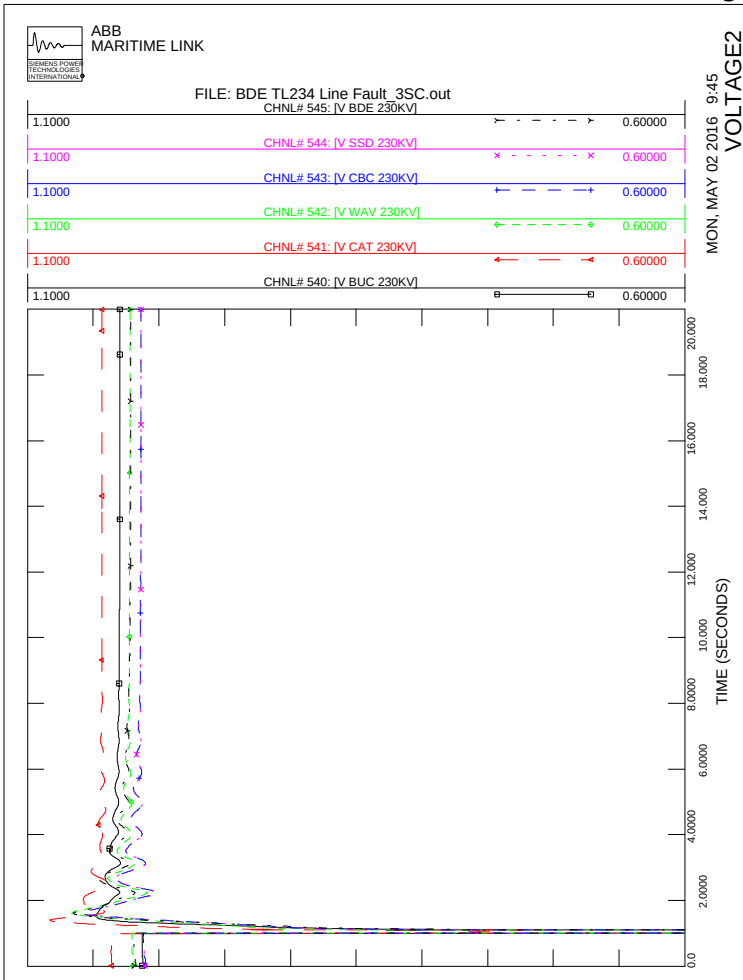
ABB
MARITIME LINK

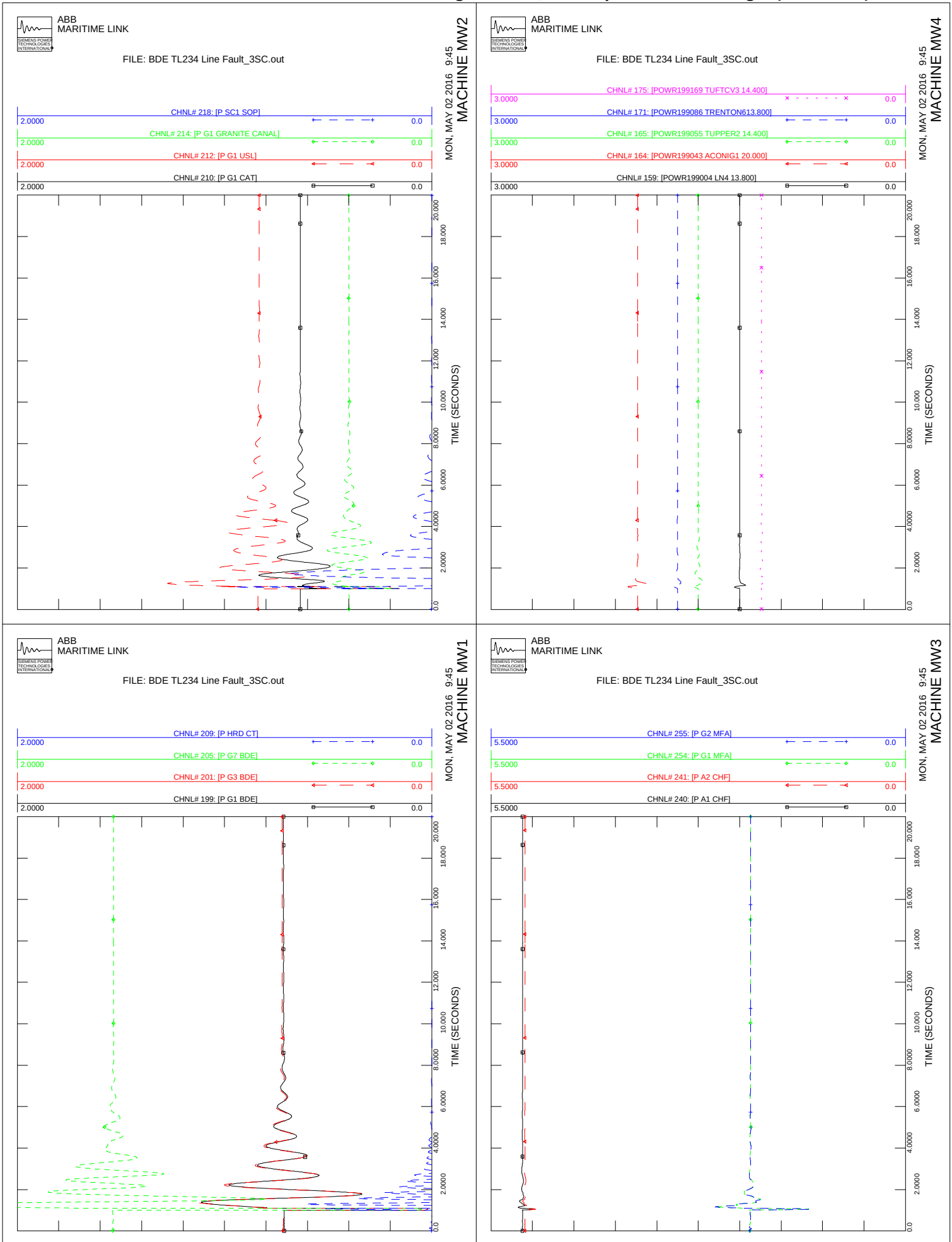
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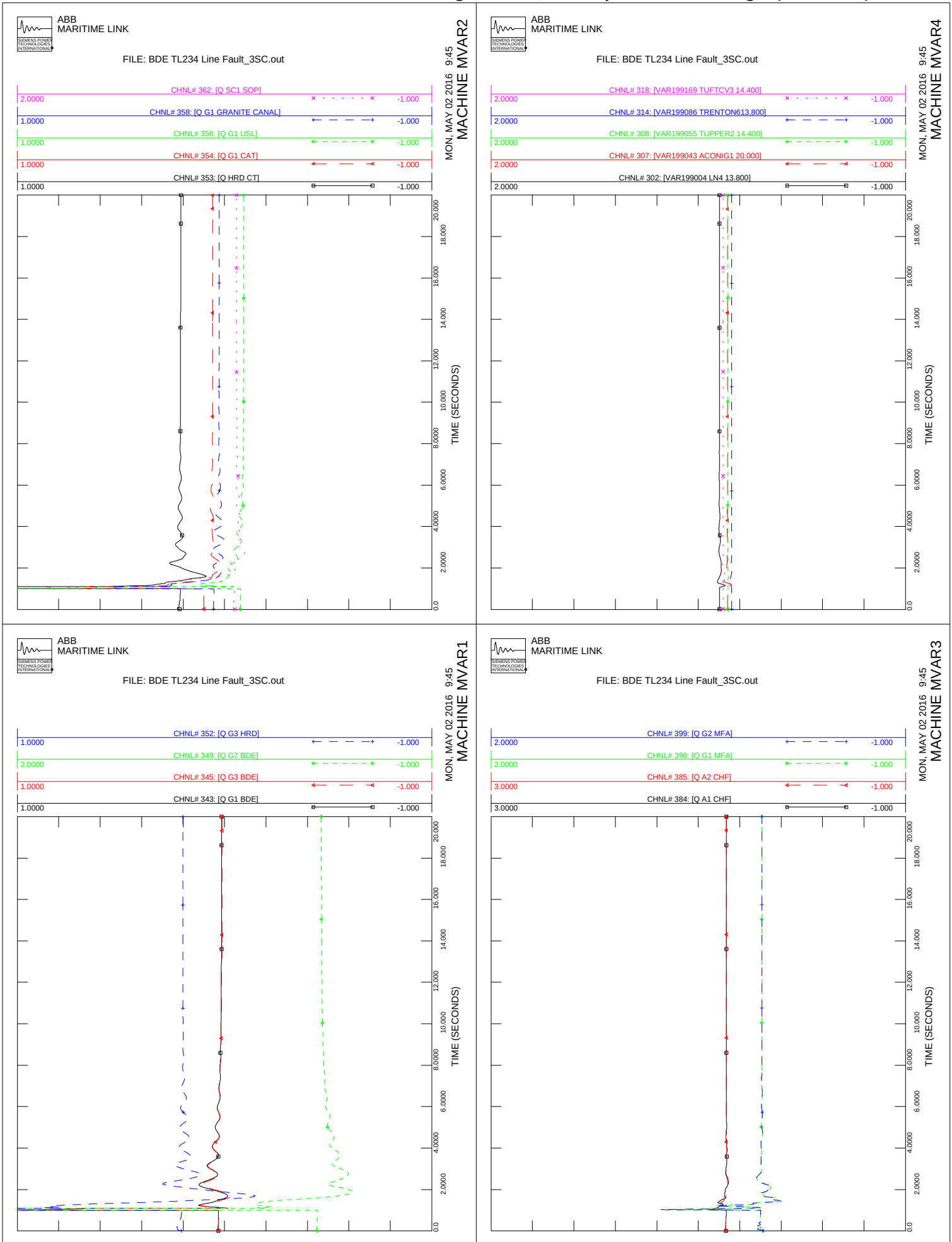
ABB
MARITIME LINK

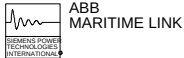
FILE: BDE TL234 Line Fault_3SC.out









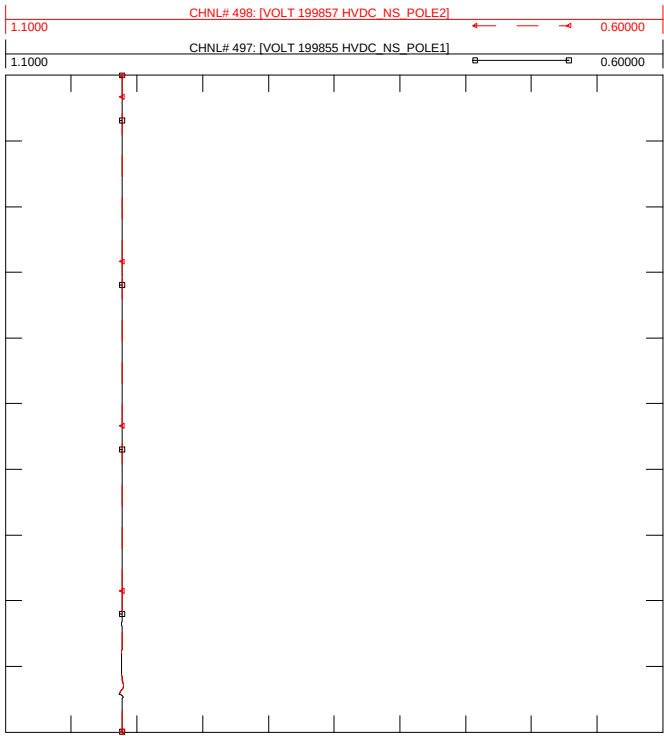


FILE: BDE TL234 Line Fault_3SC.out

ML VOLTAGE

MON, MAY 02 2016 9:45

TIME (SECONDS)

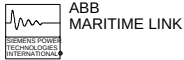
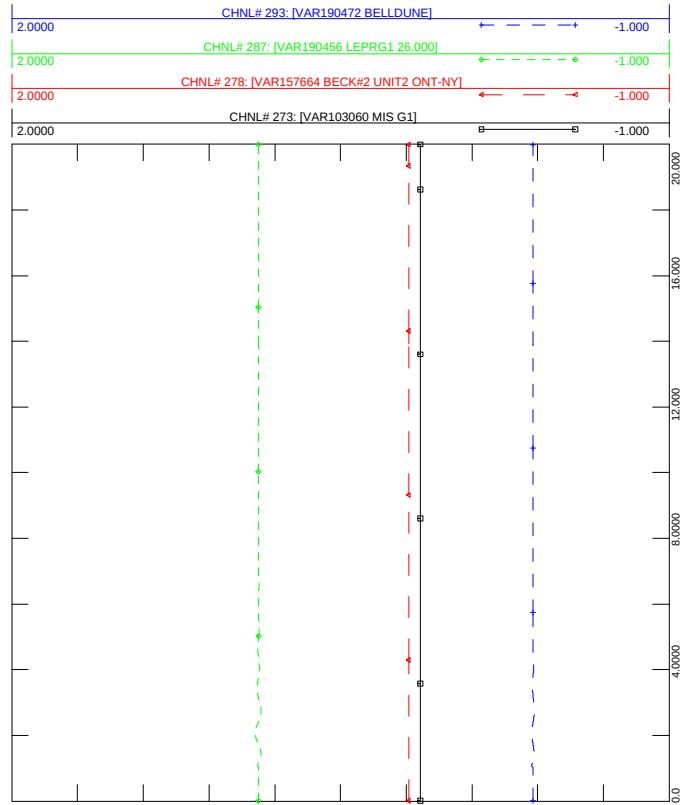


FILE: BDE TL234 Line Fault_3SC.out

NPCC MVAR

MON, MAY 02 2016 9:45

TIME (SECONDS)

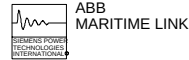
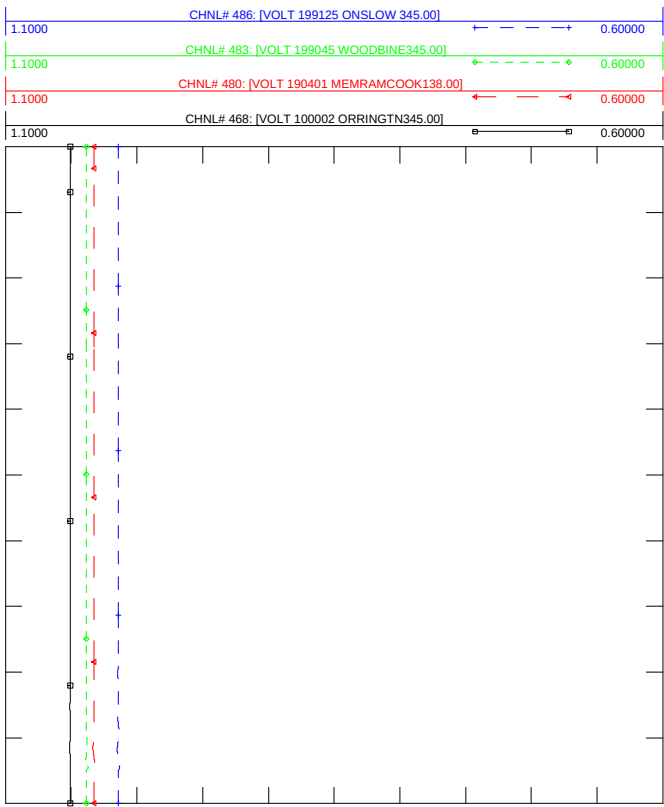


FILE: BDE TL234 Line Fault_3SC.out

NS & NPCC VOLTAGE

MON, MAY 02 2016 9:45

TIME (SECONDS)

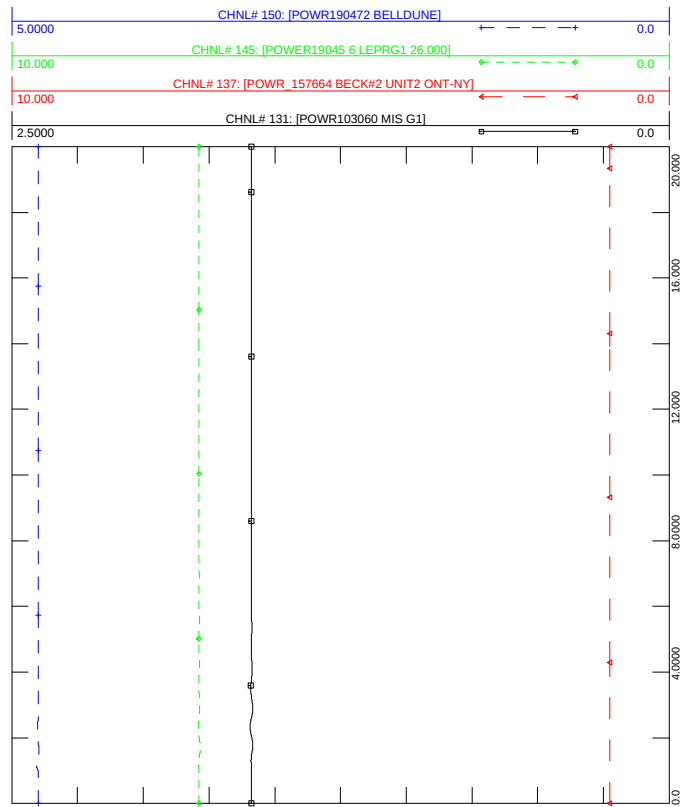


FILE: BDE TL234 Line Fault_3SC.out

NPCC MW

MON, MAY 02 2016 9:45

TIME (SECONDS)



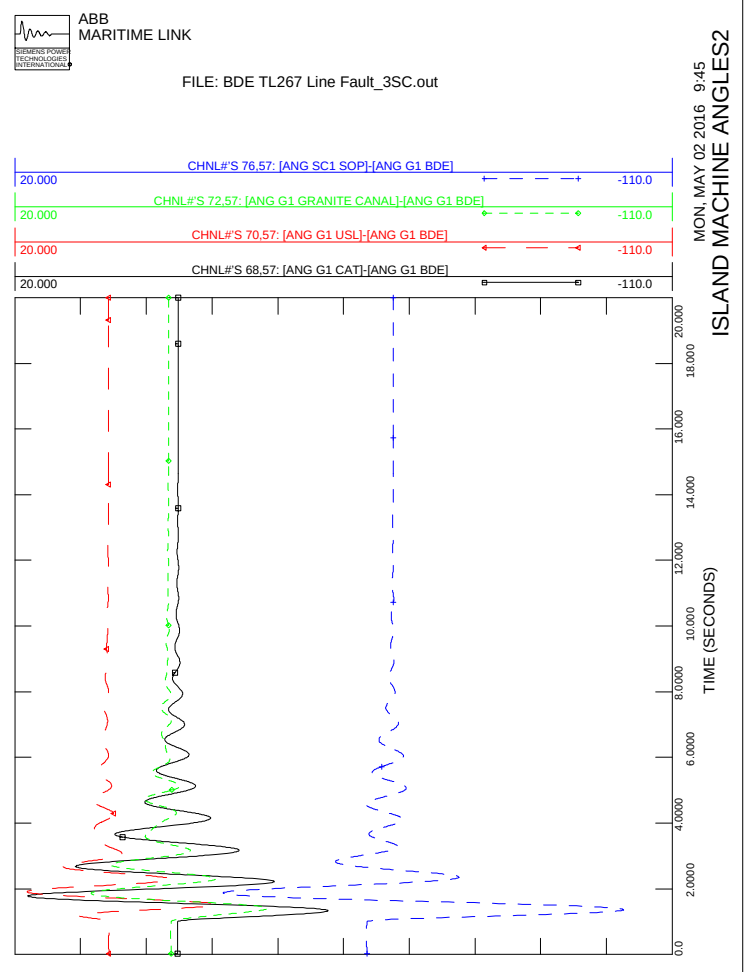
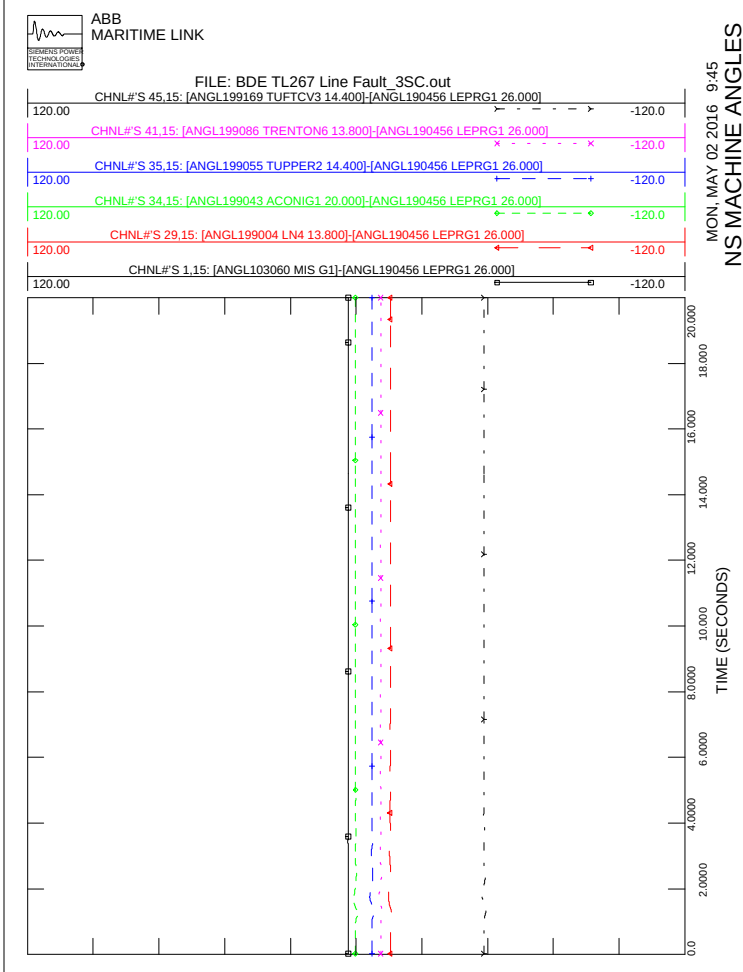
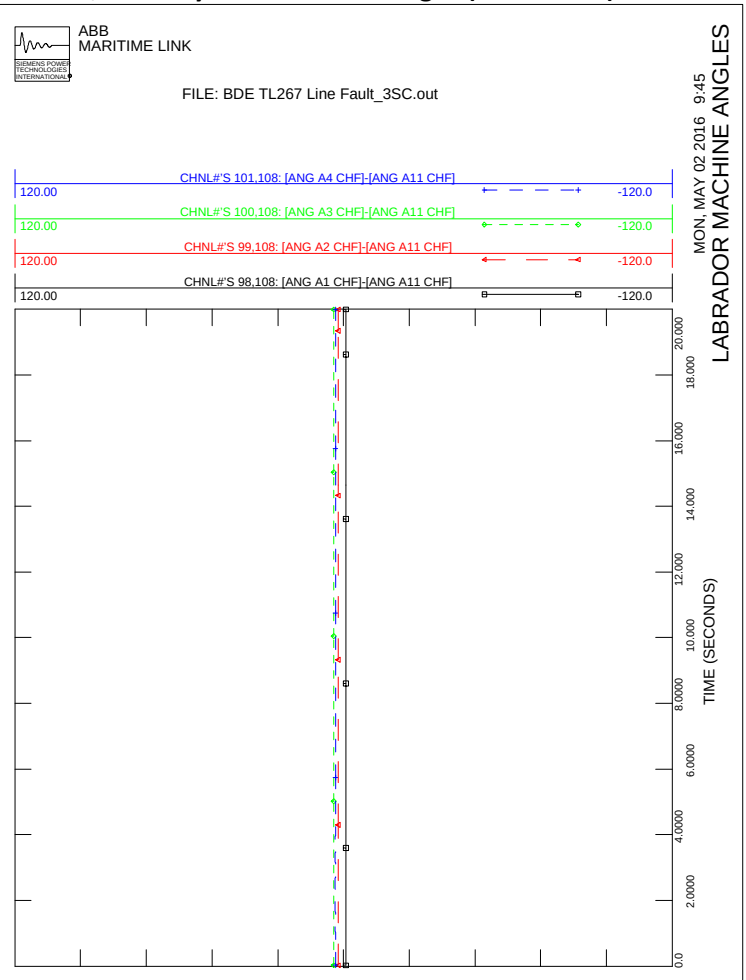
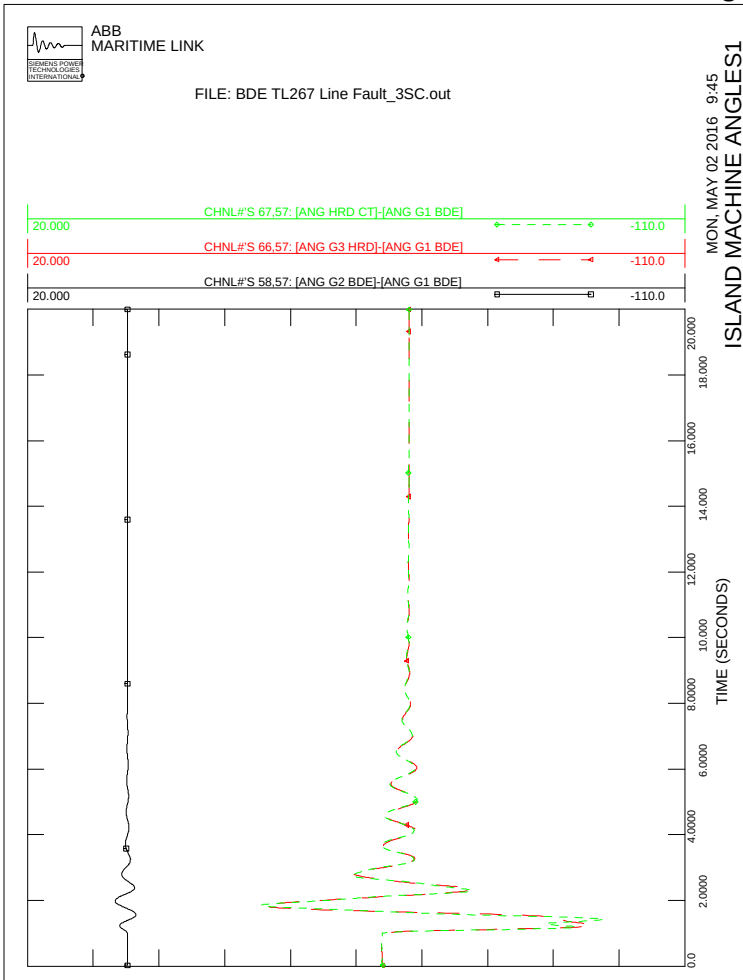
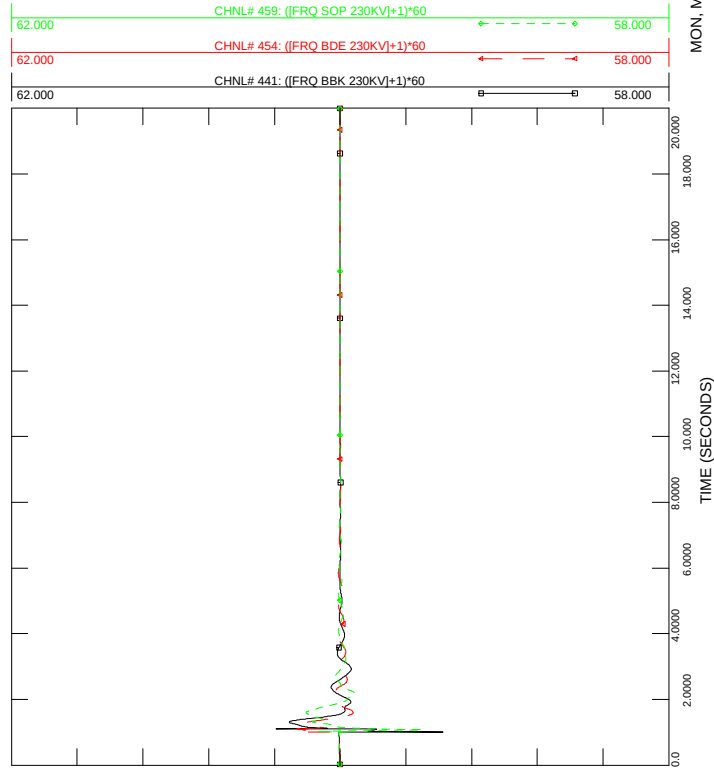
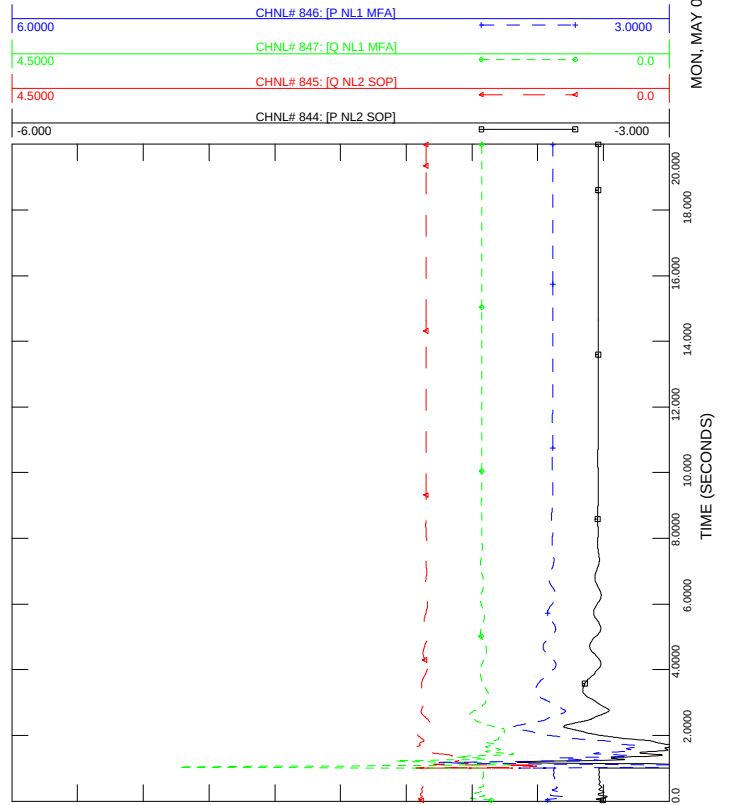


ABB
MARITIME LINK

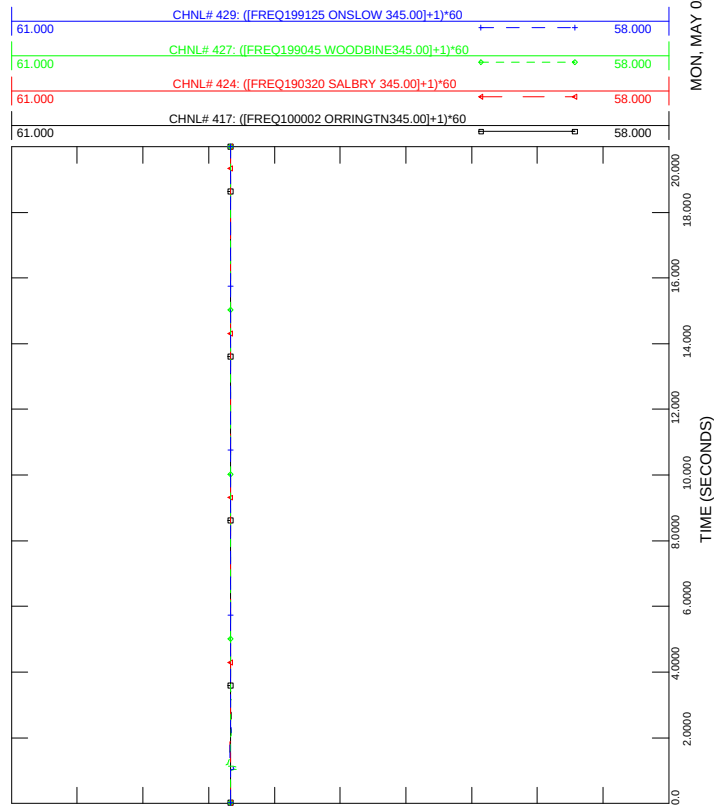
FILE: BDE TL267 Line Fault_3SC.out

ABB
MARITIME LINK

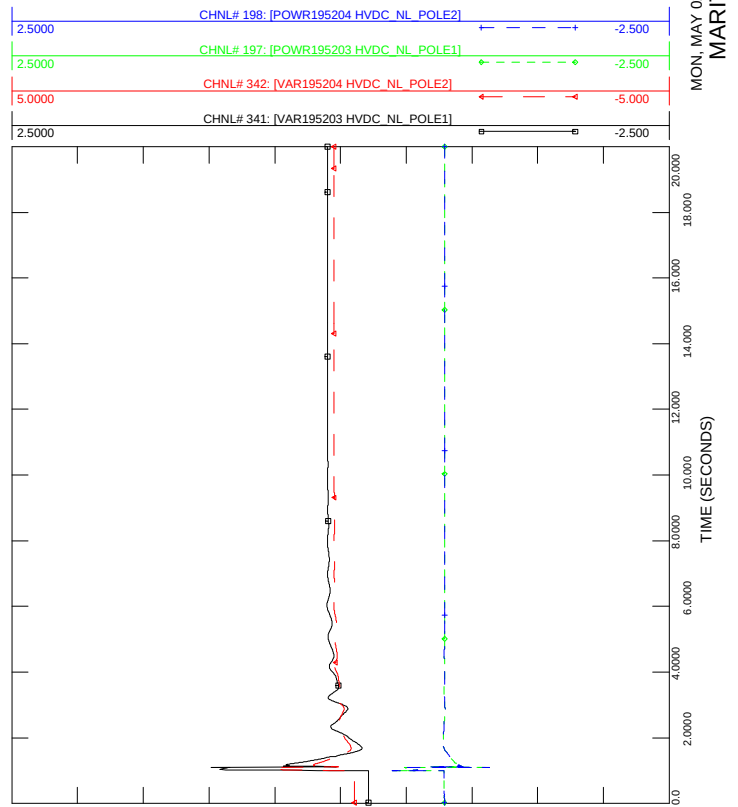
FILE: BDE TL267 Line Fault_3SC.out

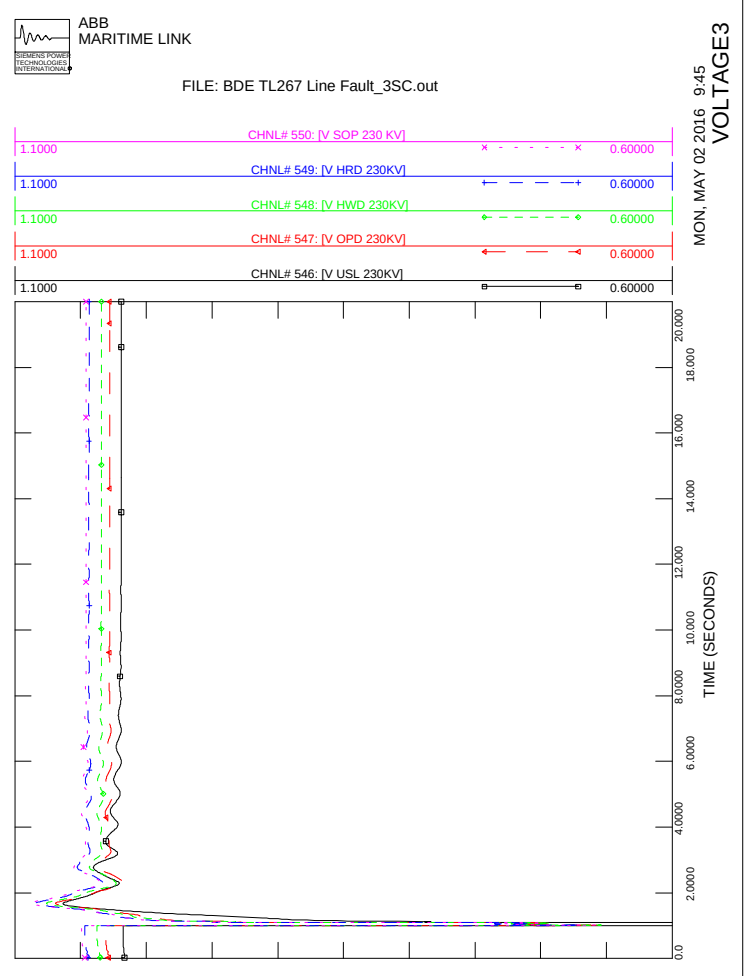
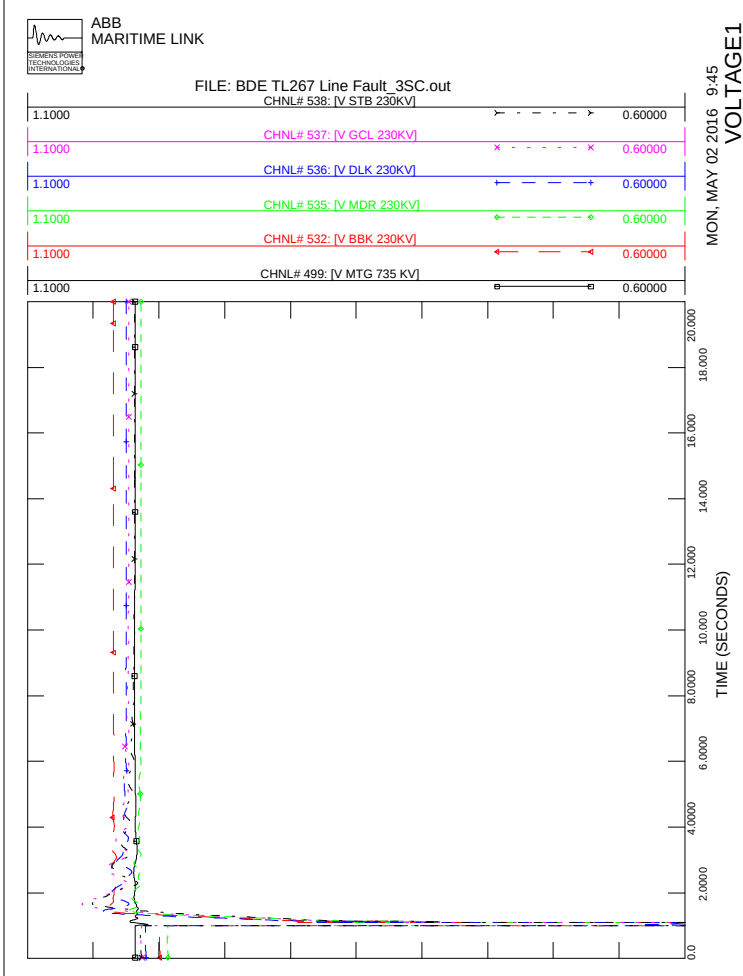
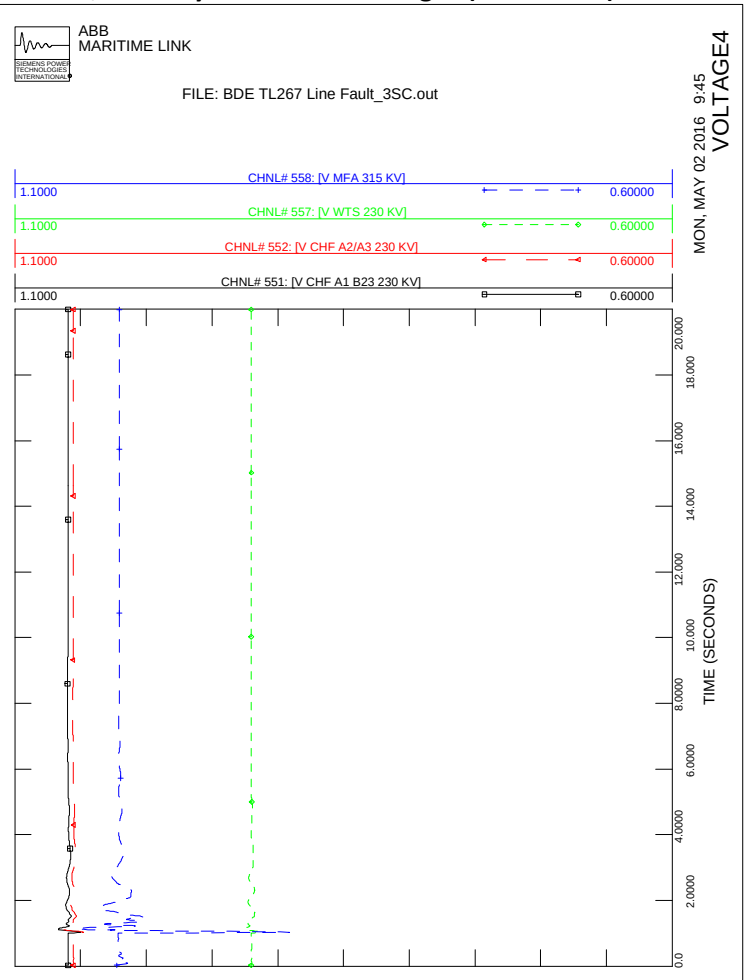
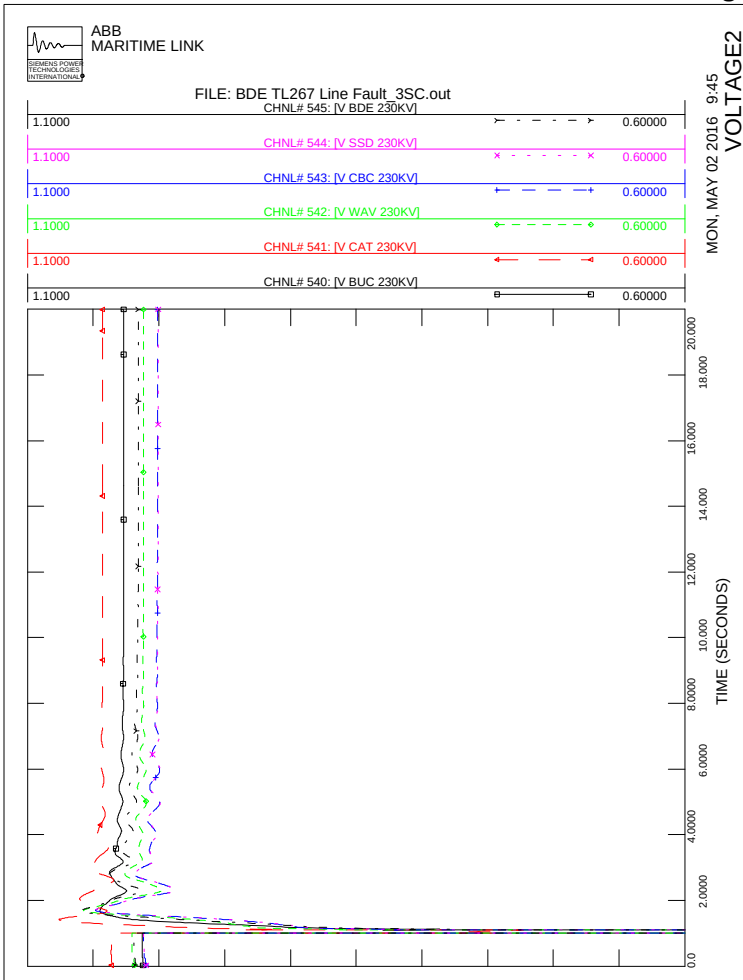
ABB
MARITIME LINK

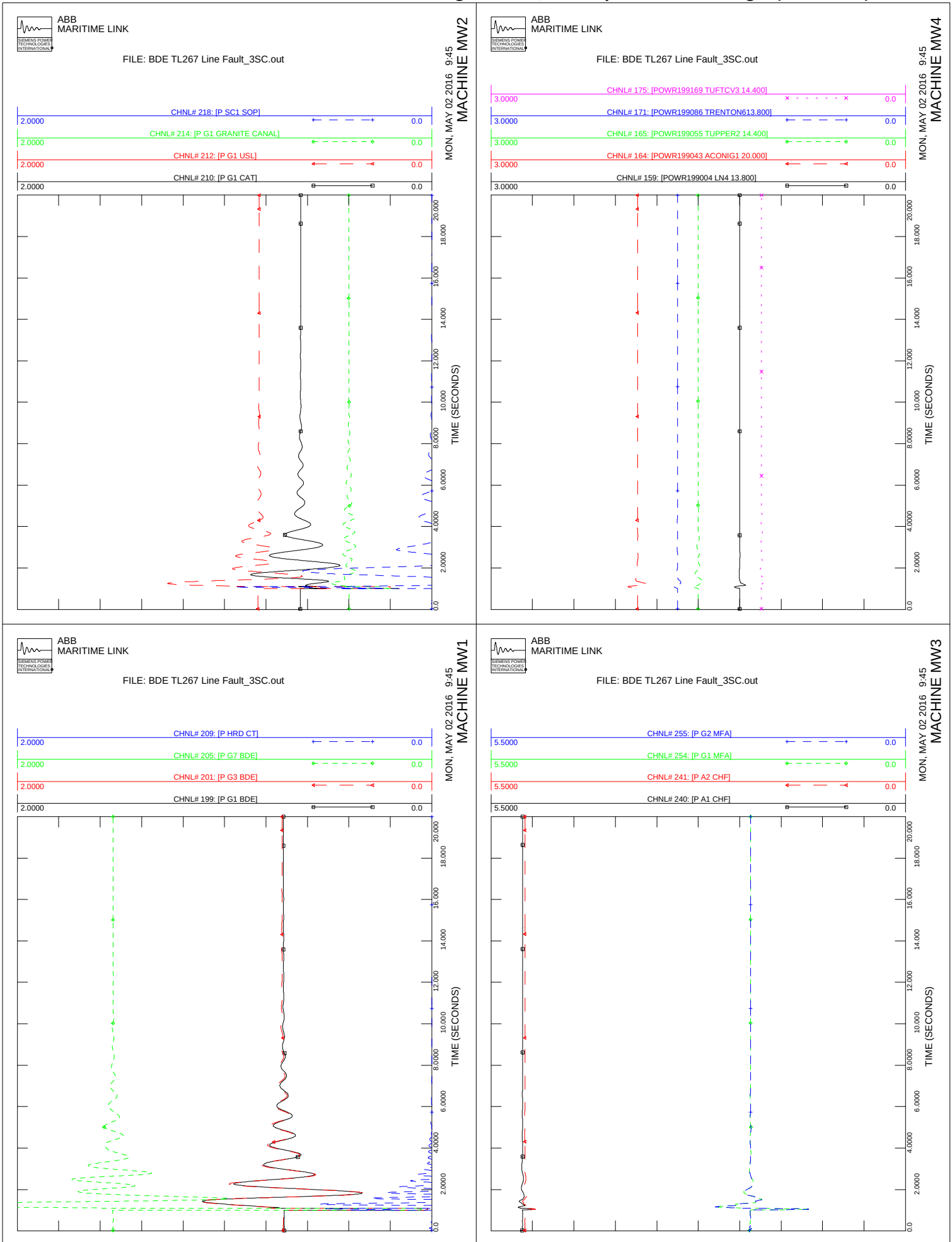
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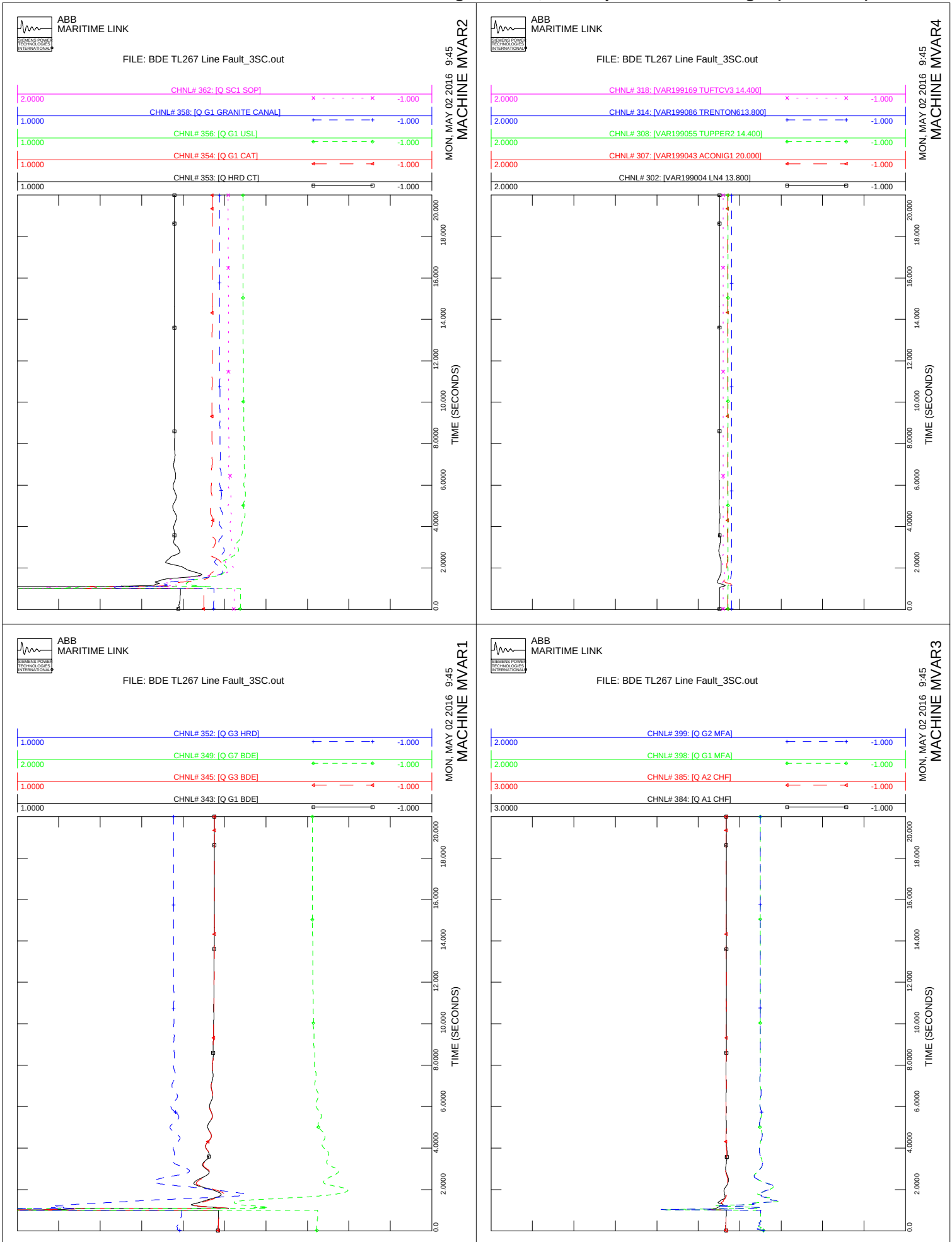
ABB
MARITIME LINK

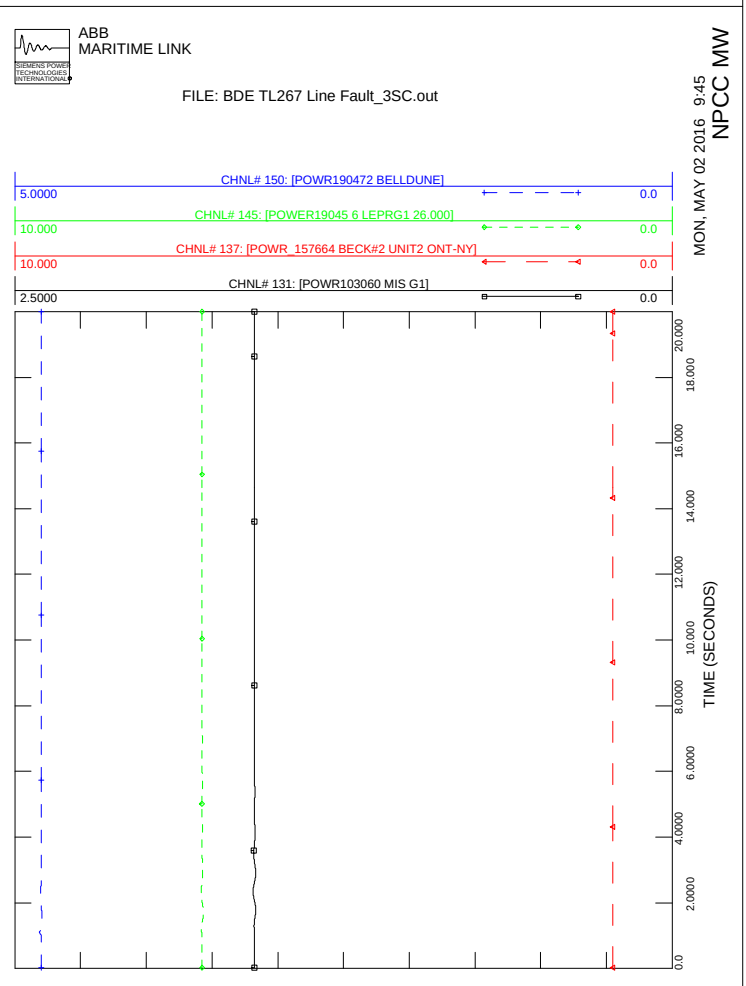
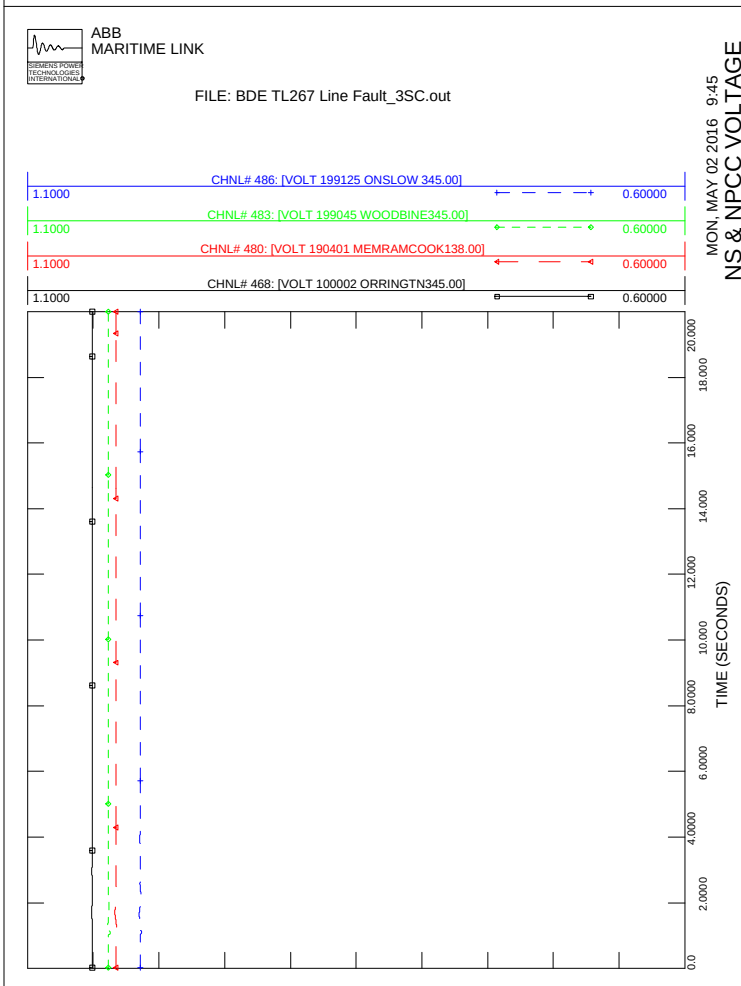
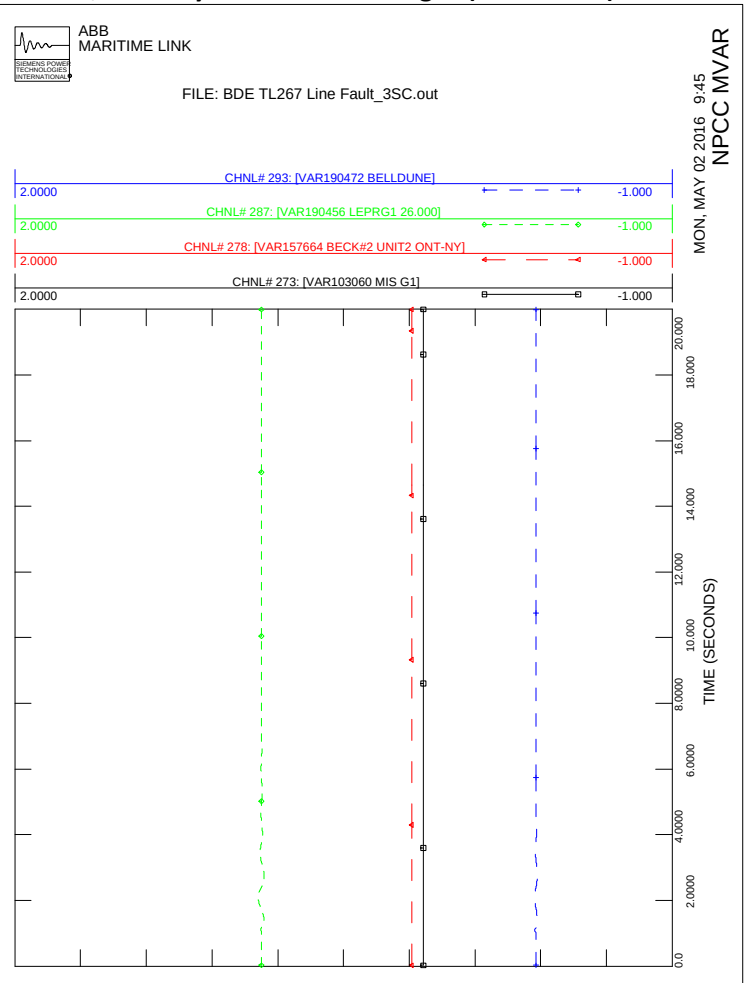
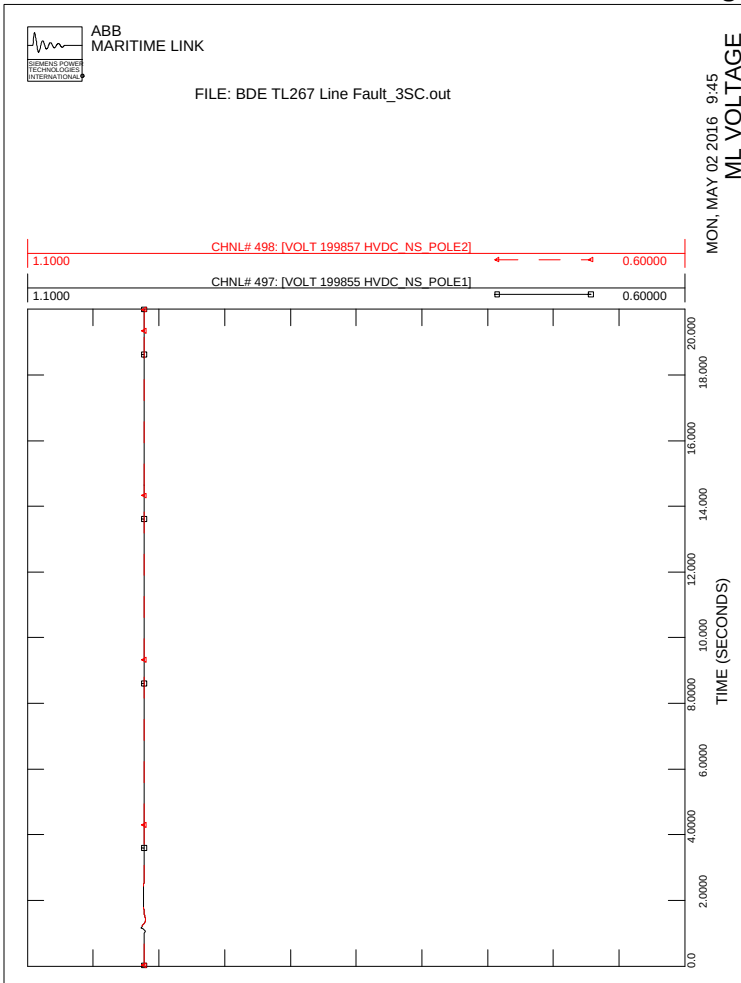
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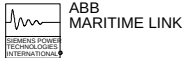




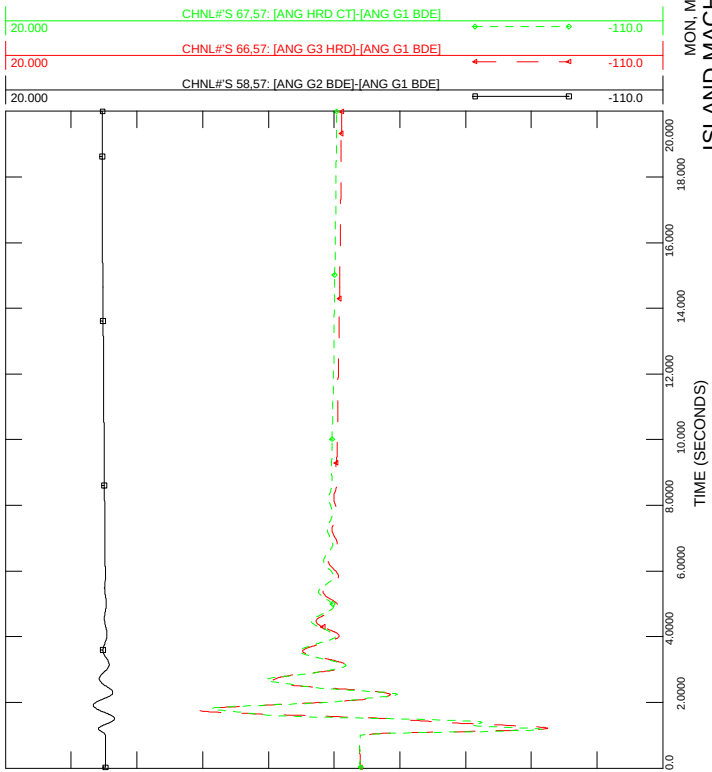




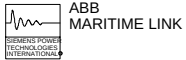
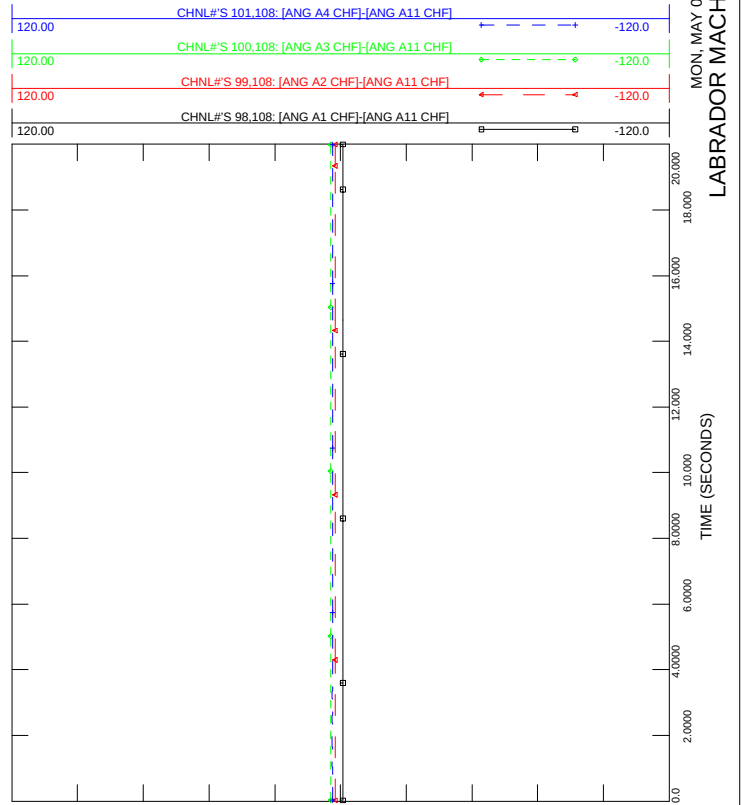




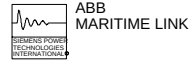
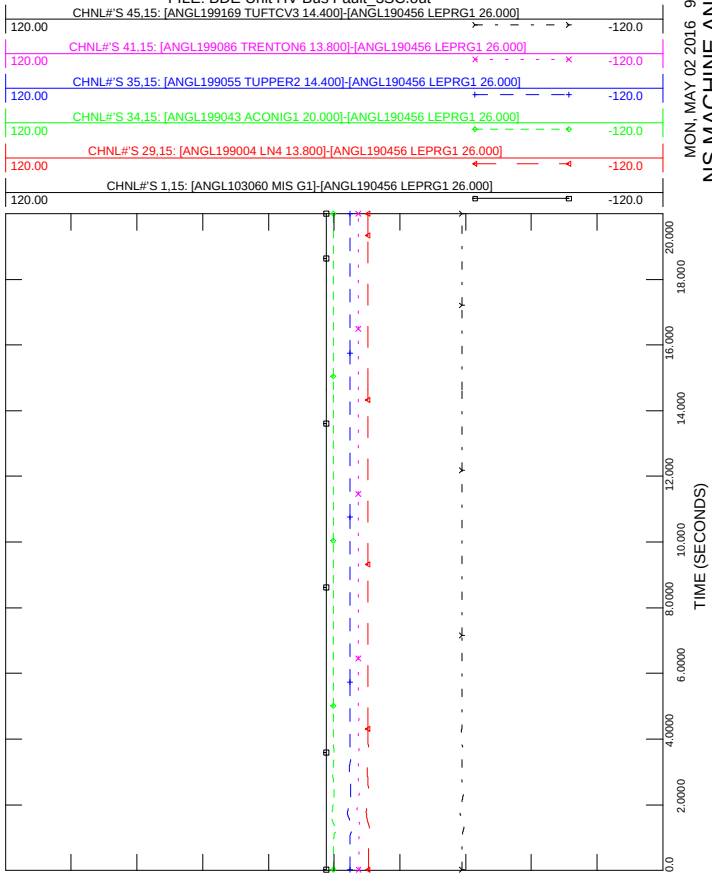
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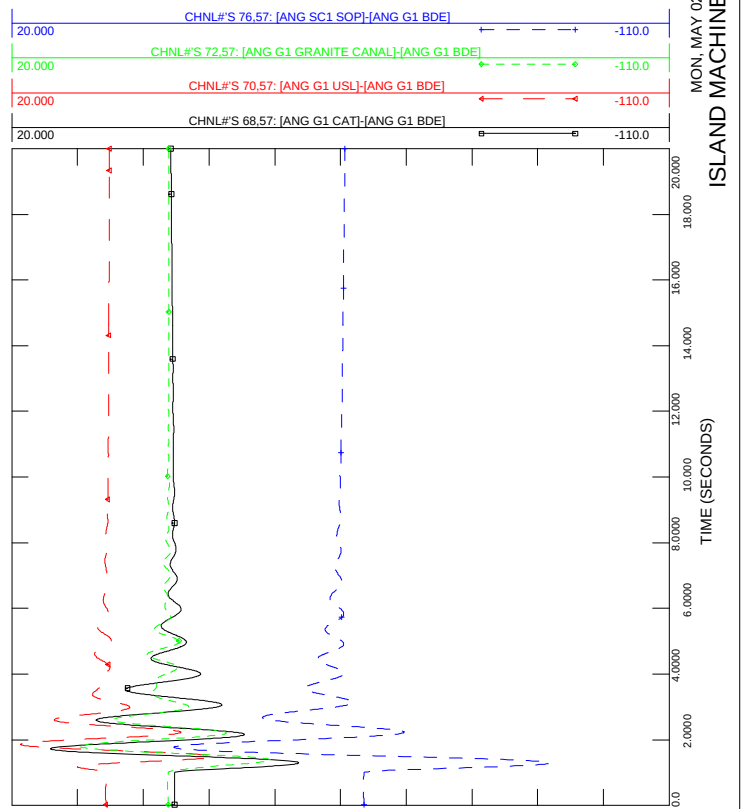
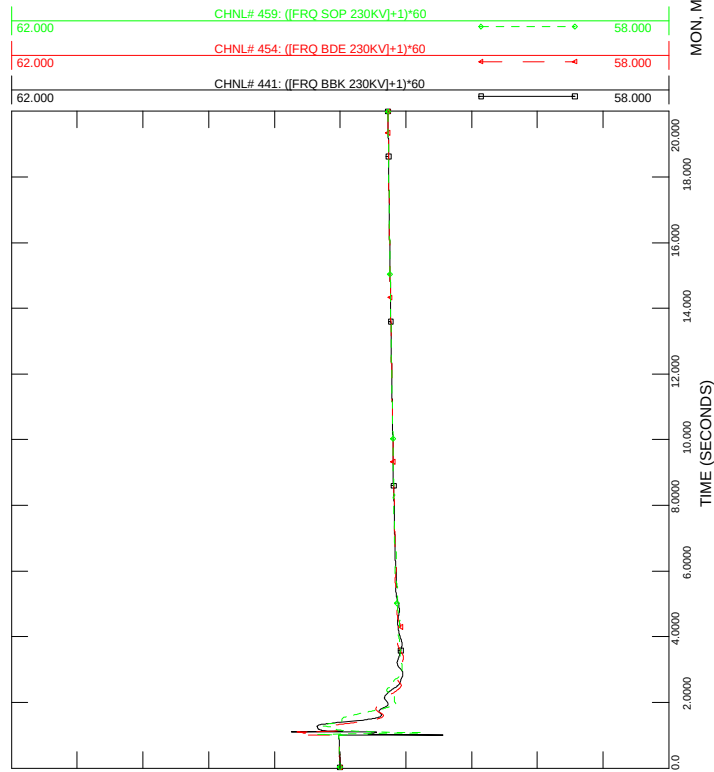
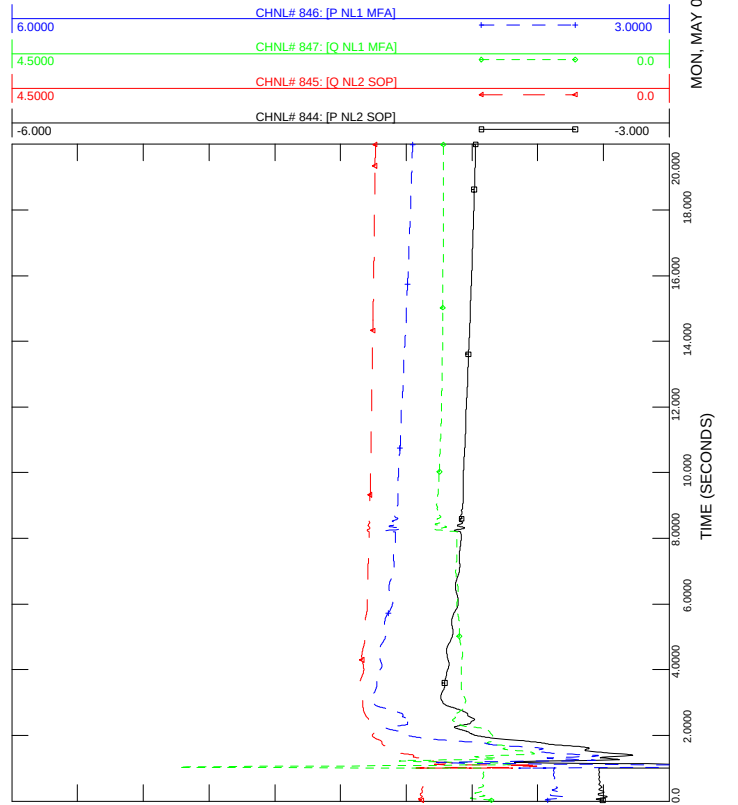


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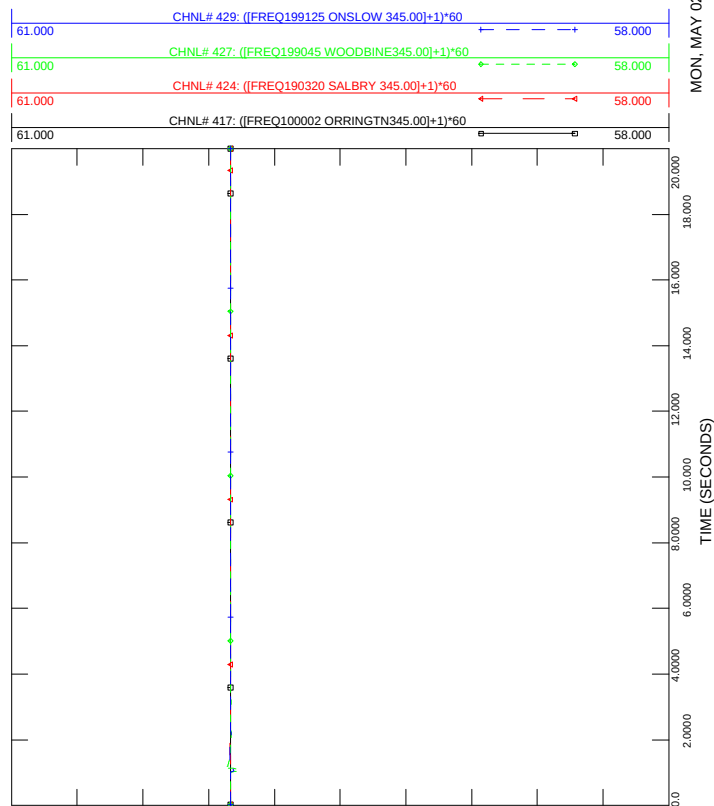
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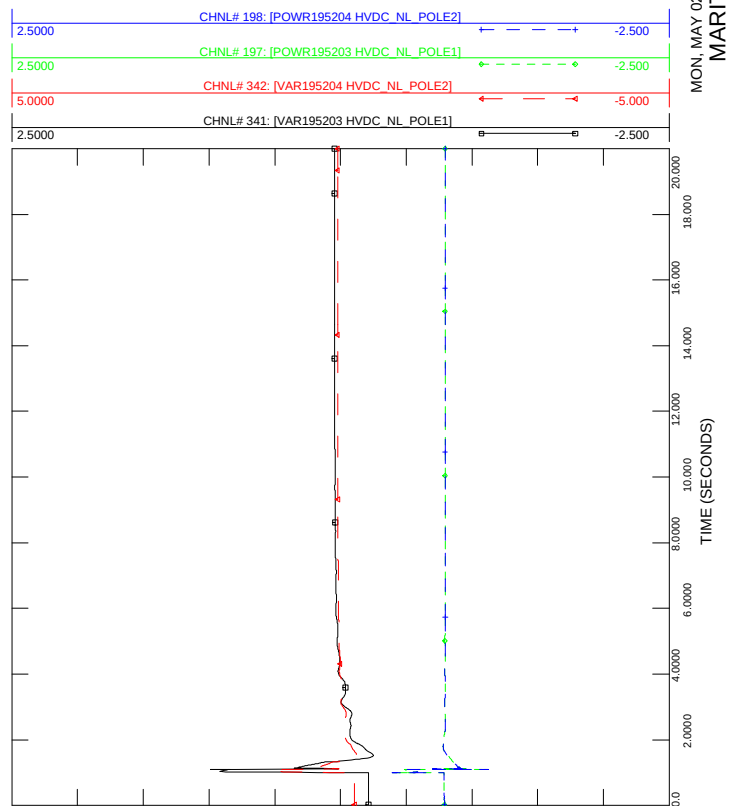
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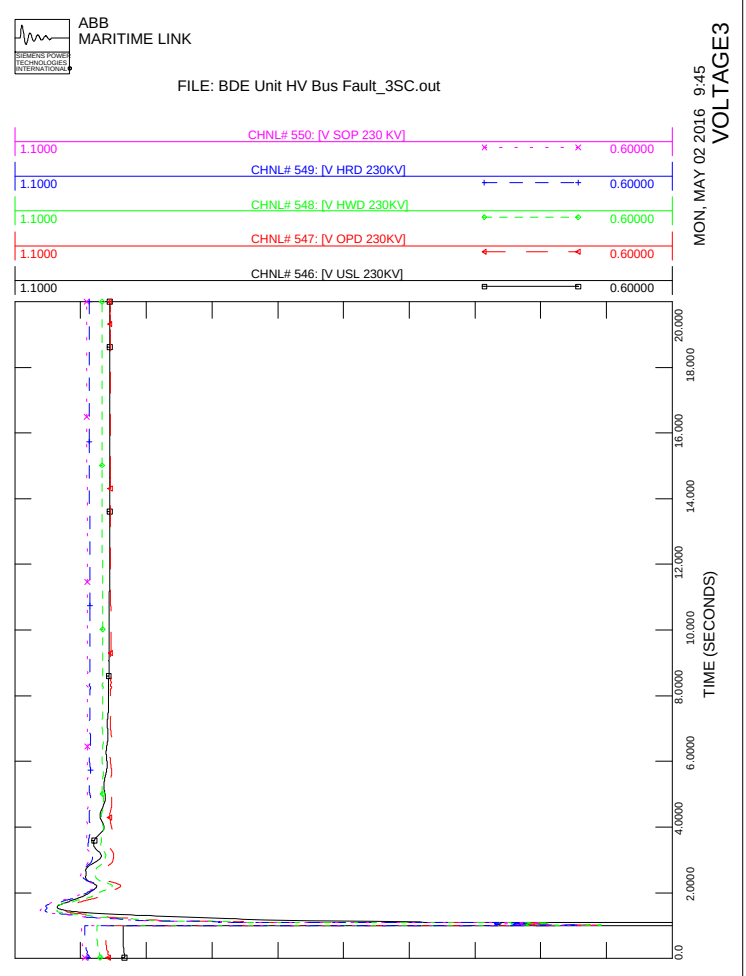
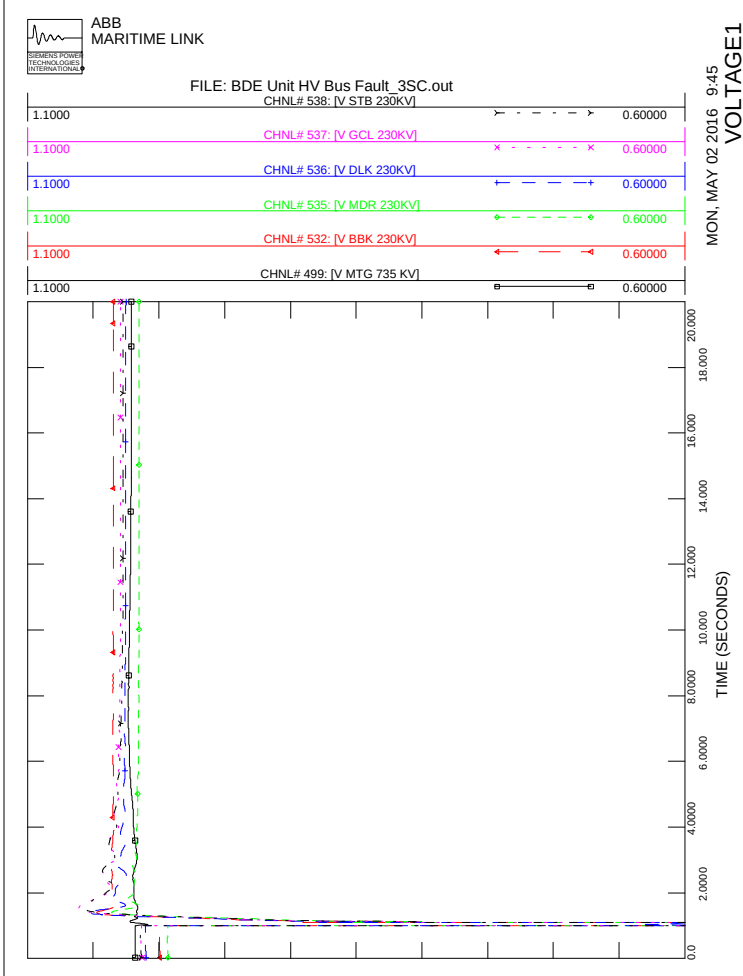
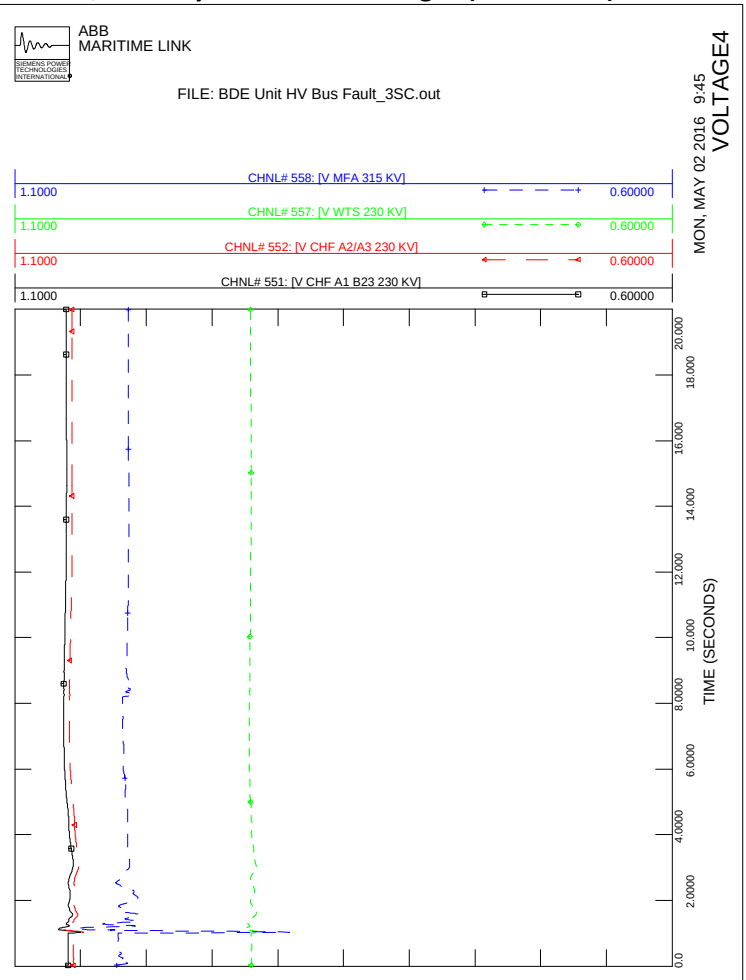
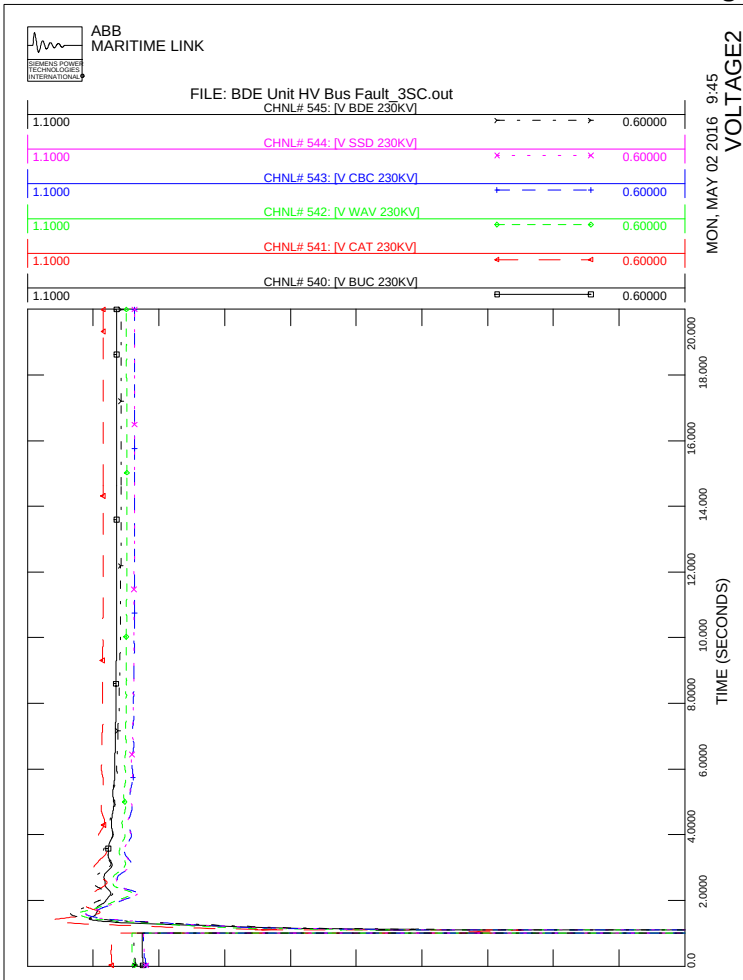
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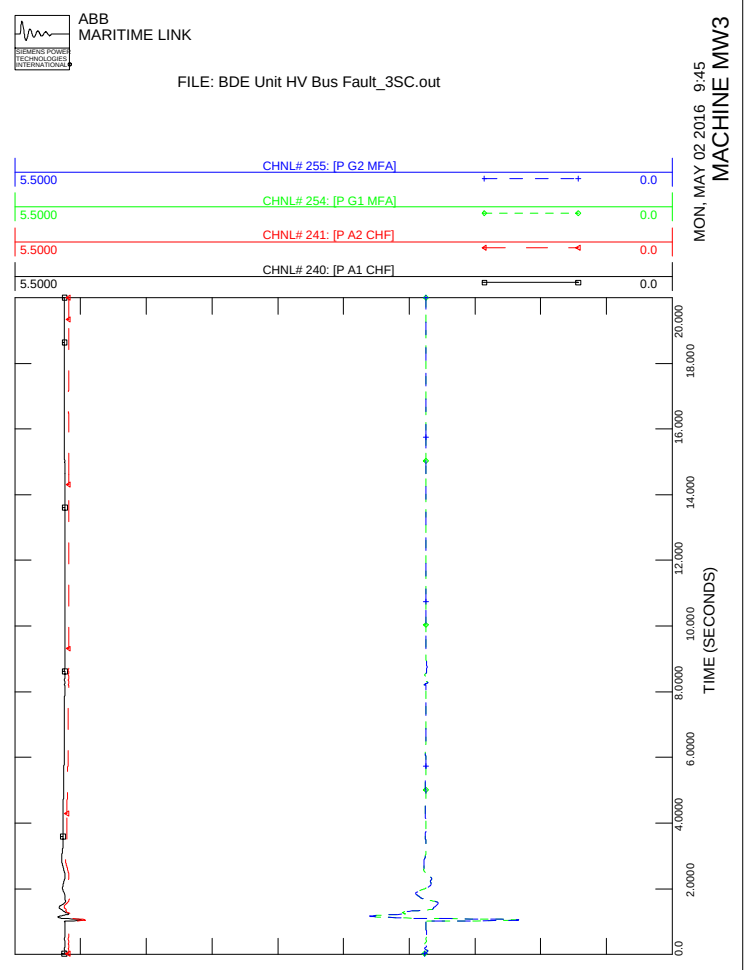
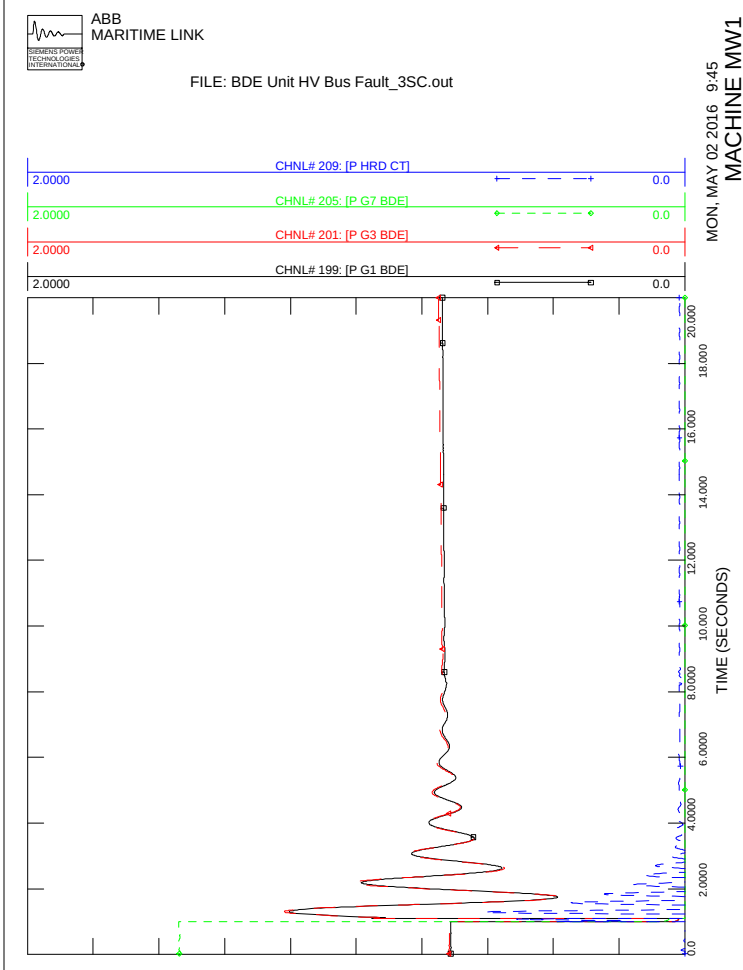
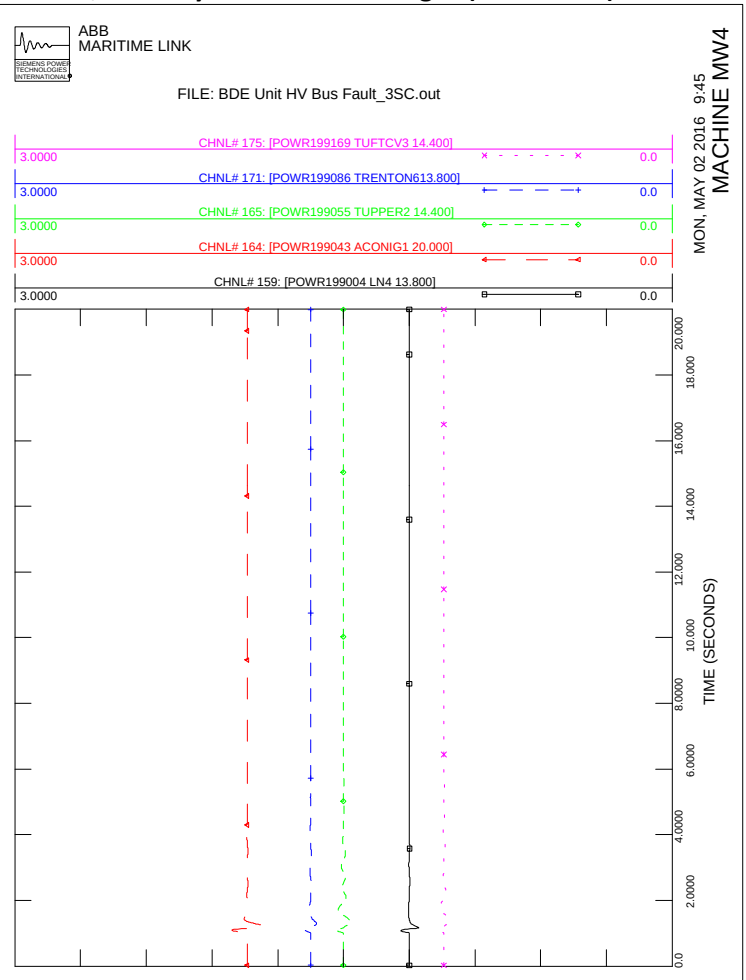
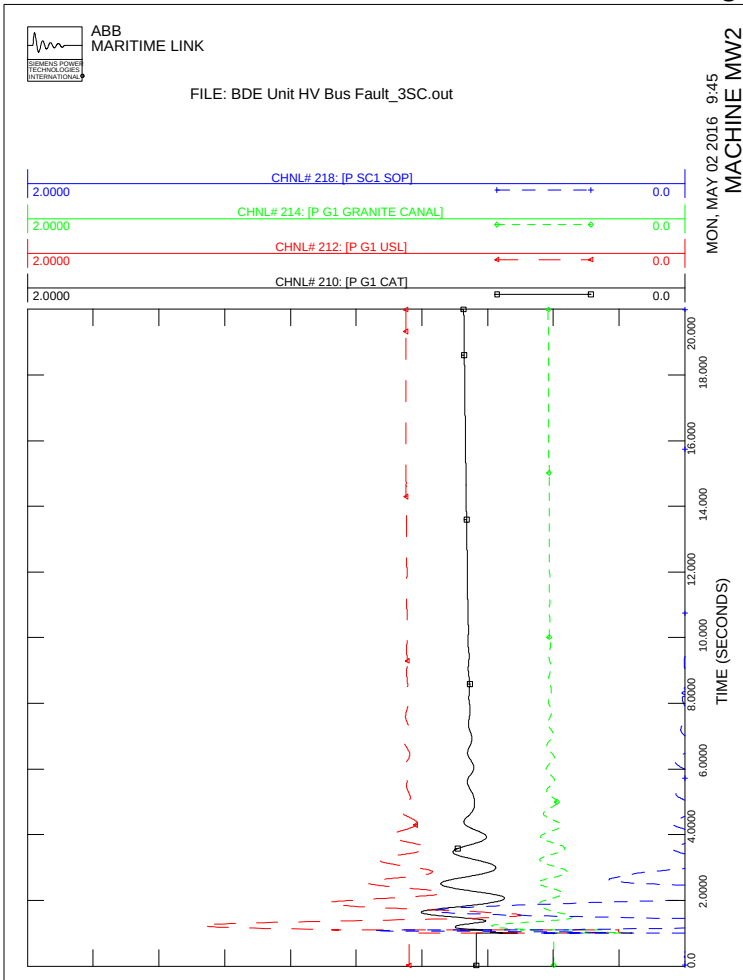
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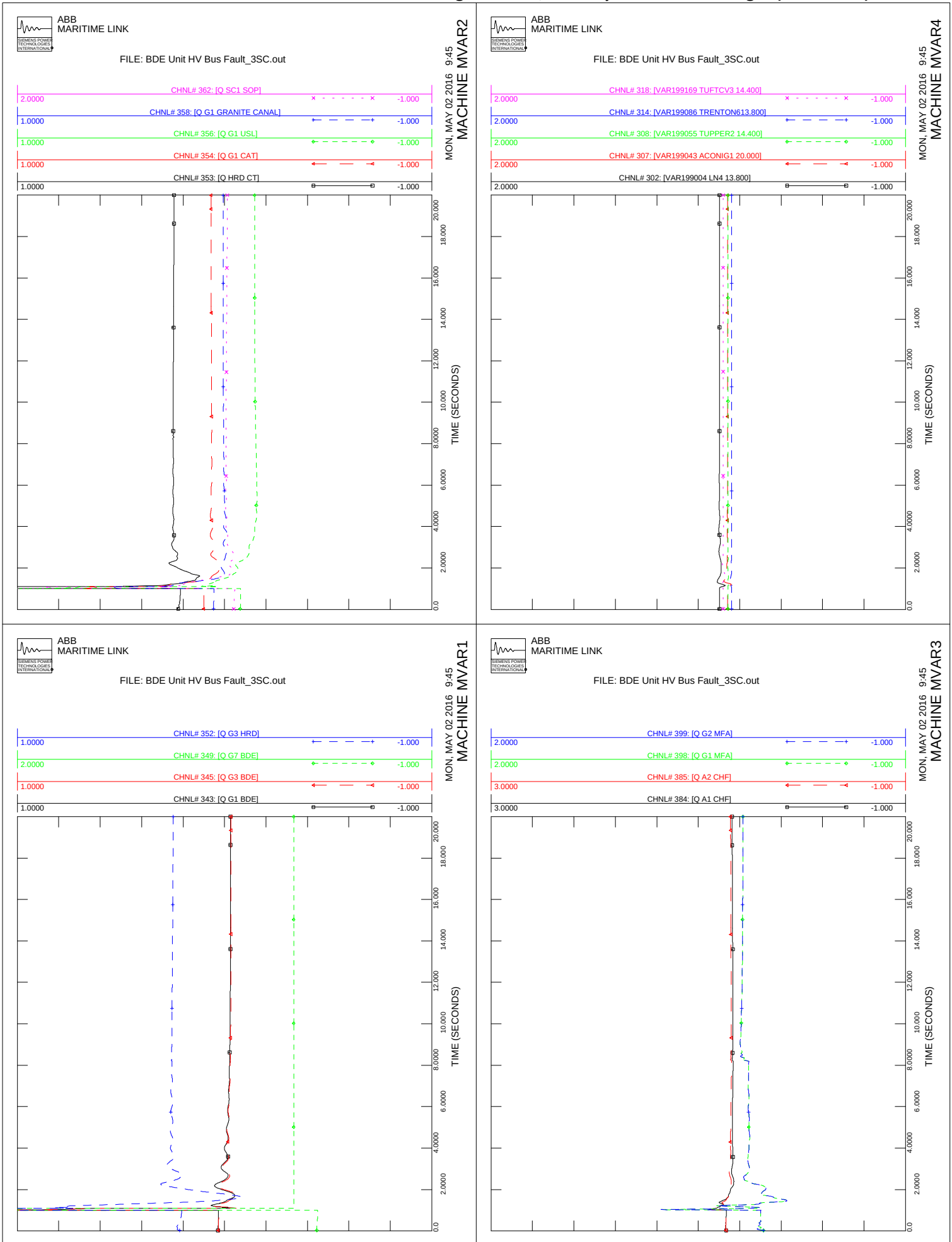
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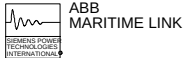
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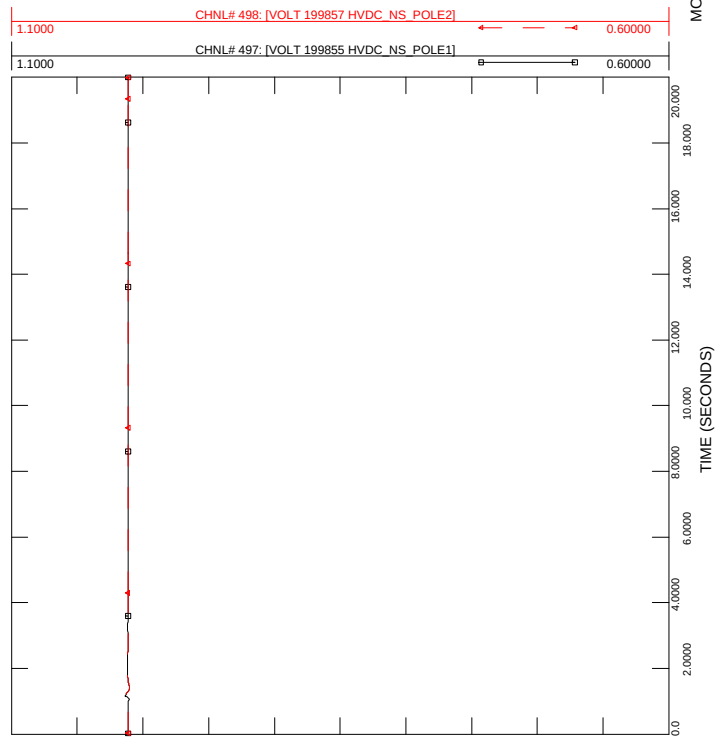




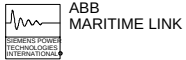
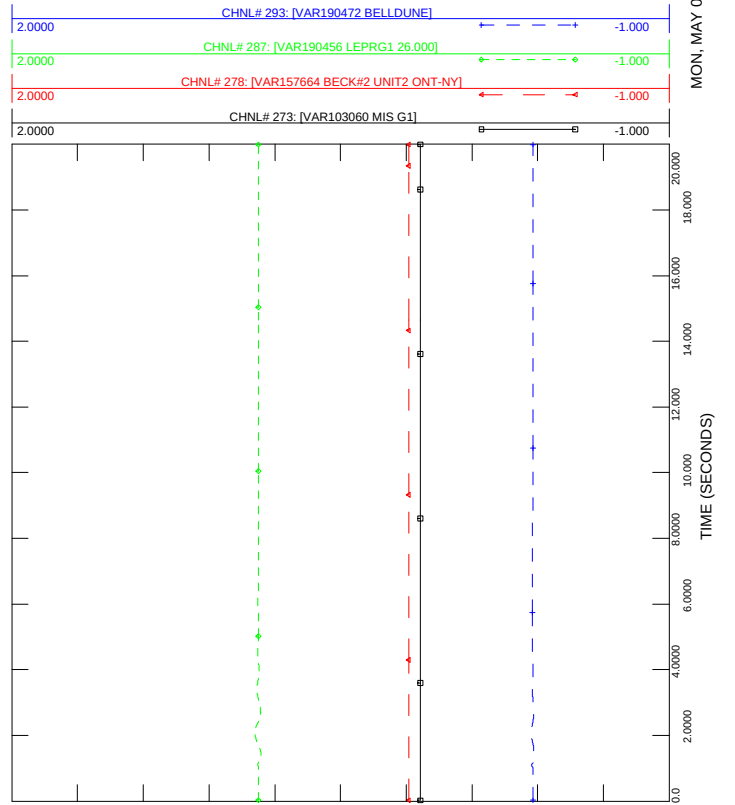




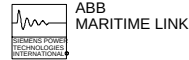
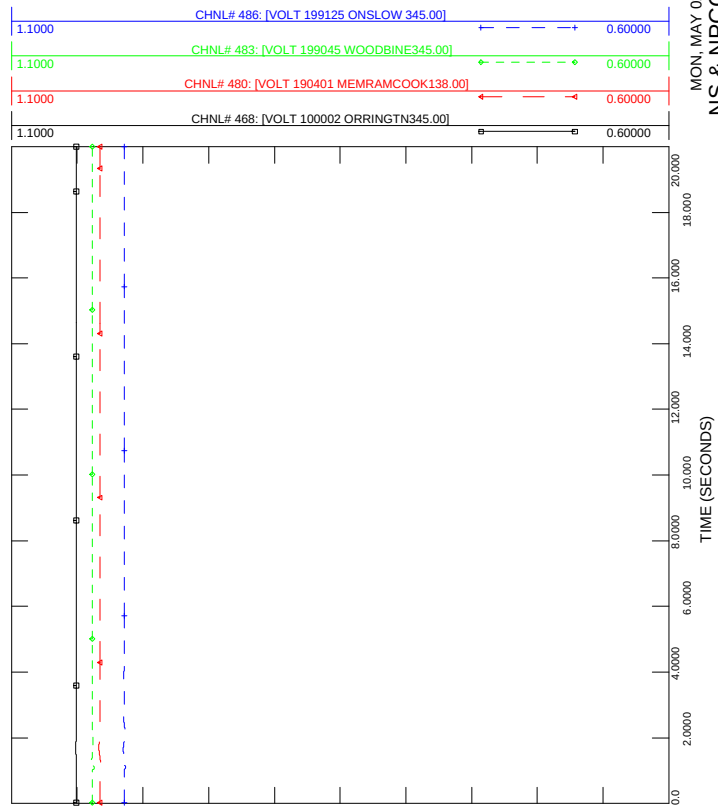
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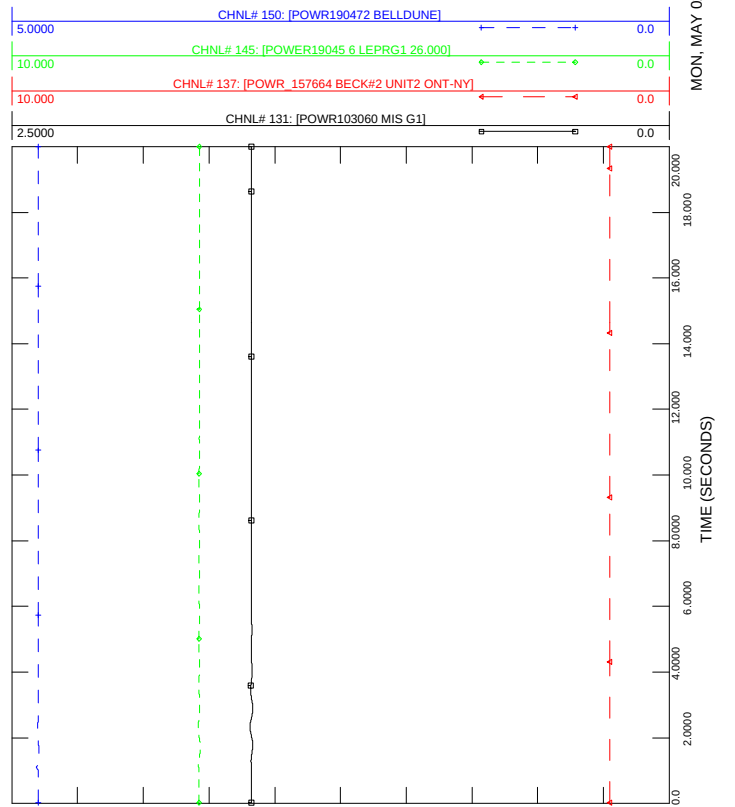
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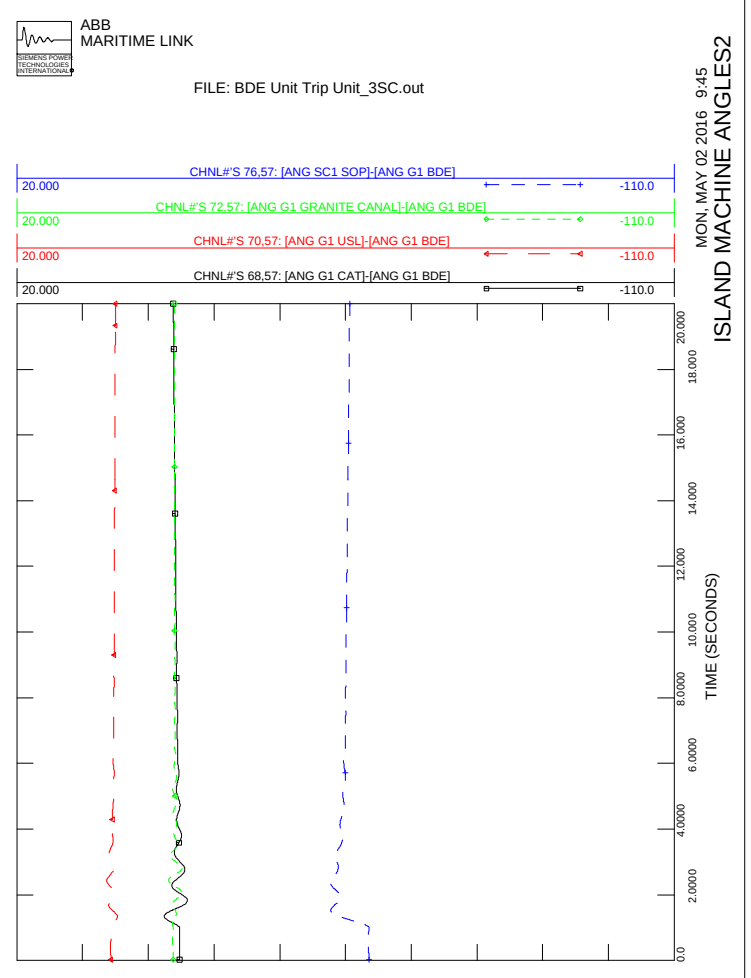
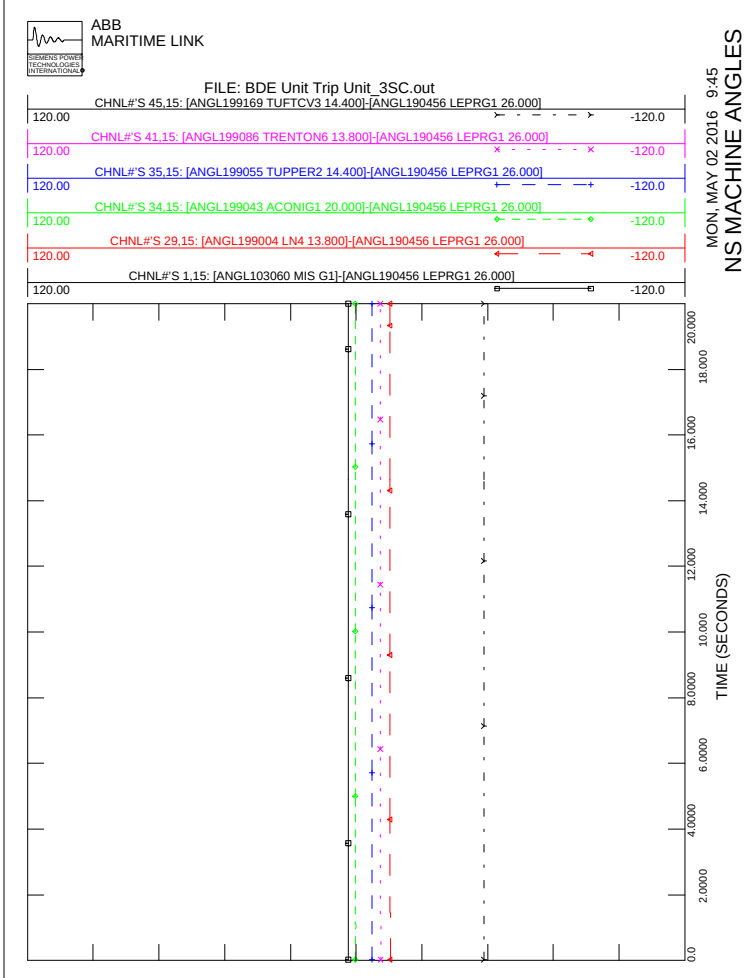
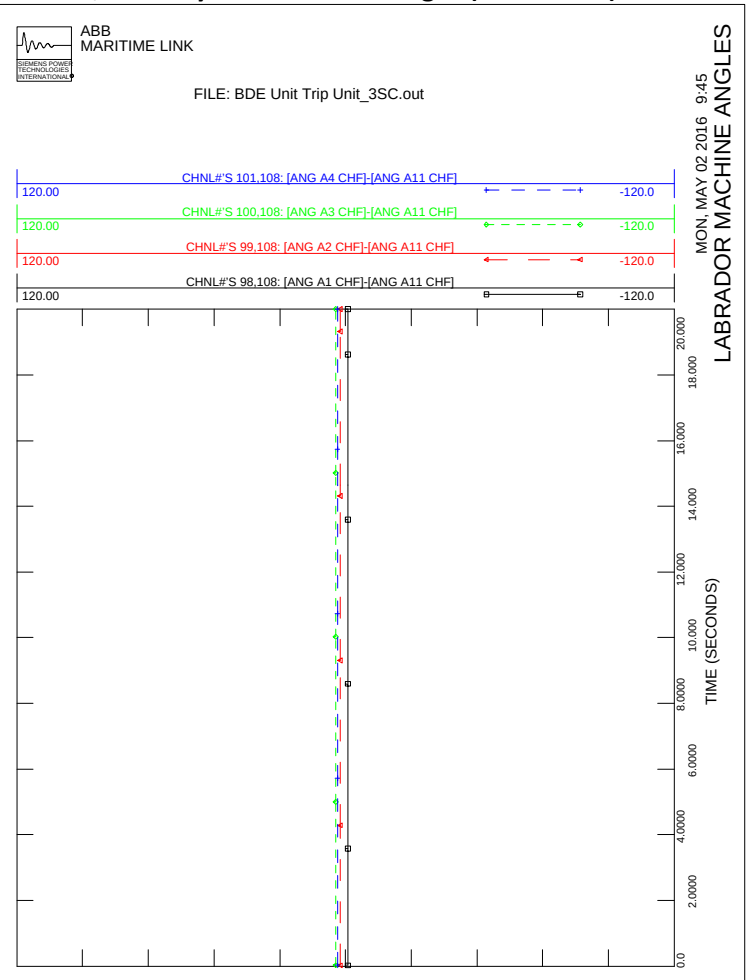
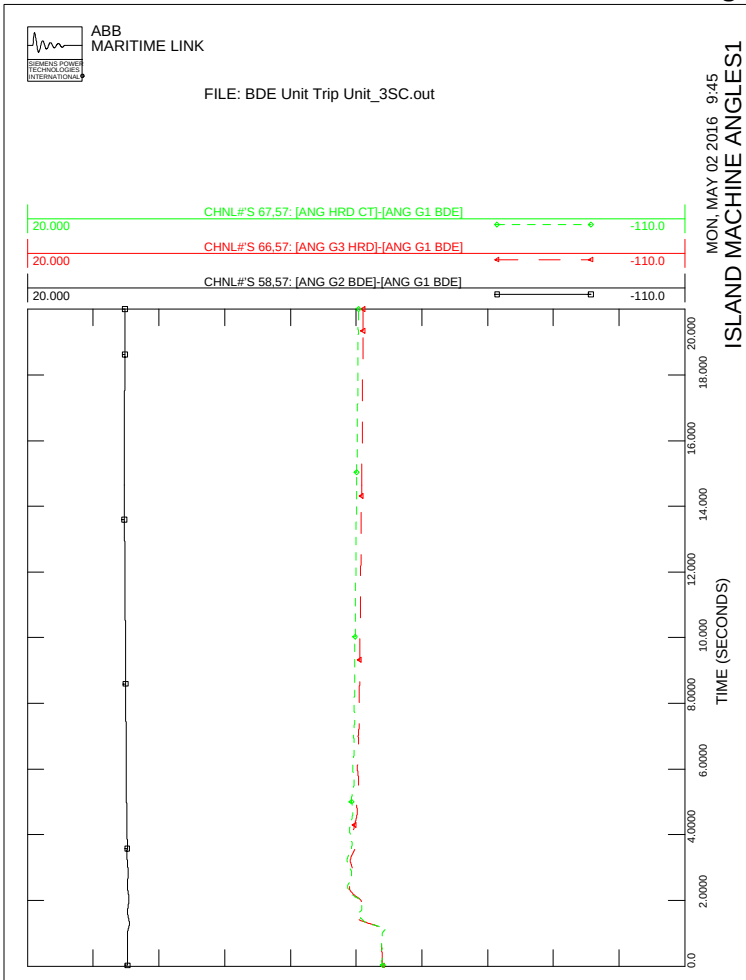
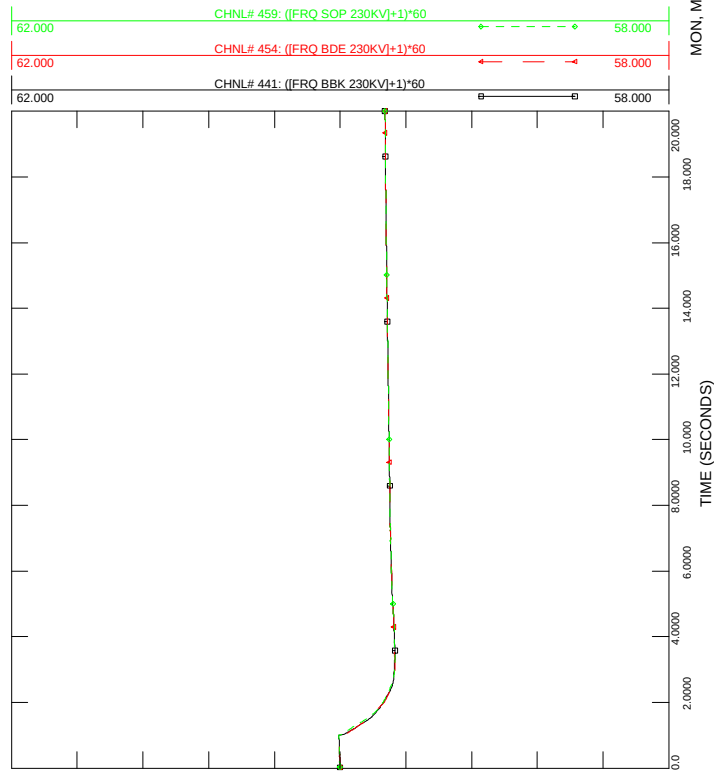
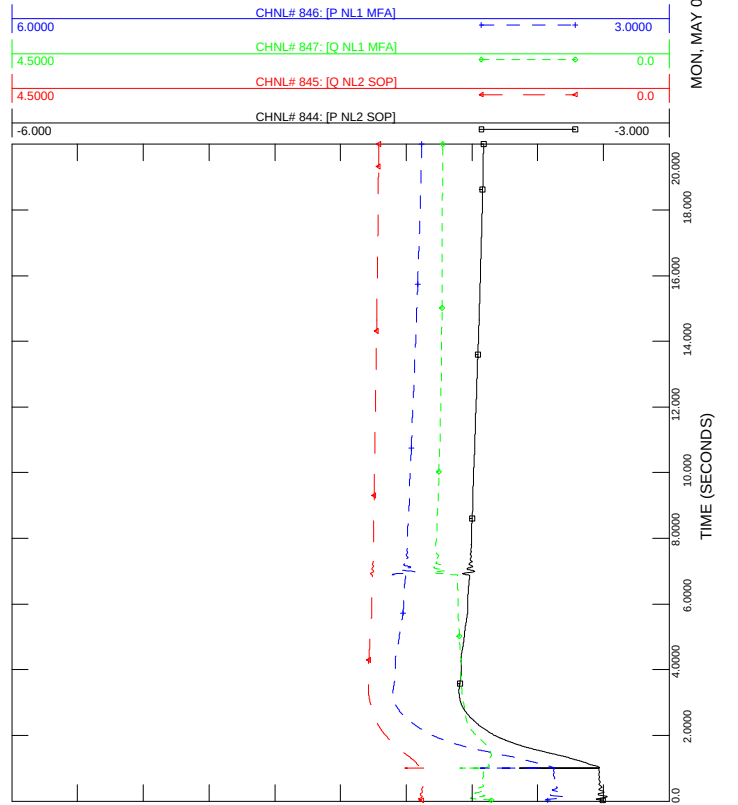


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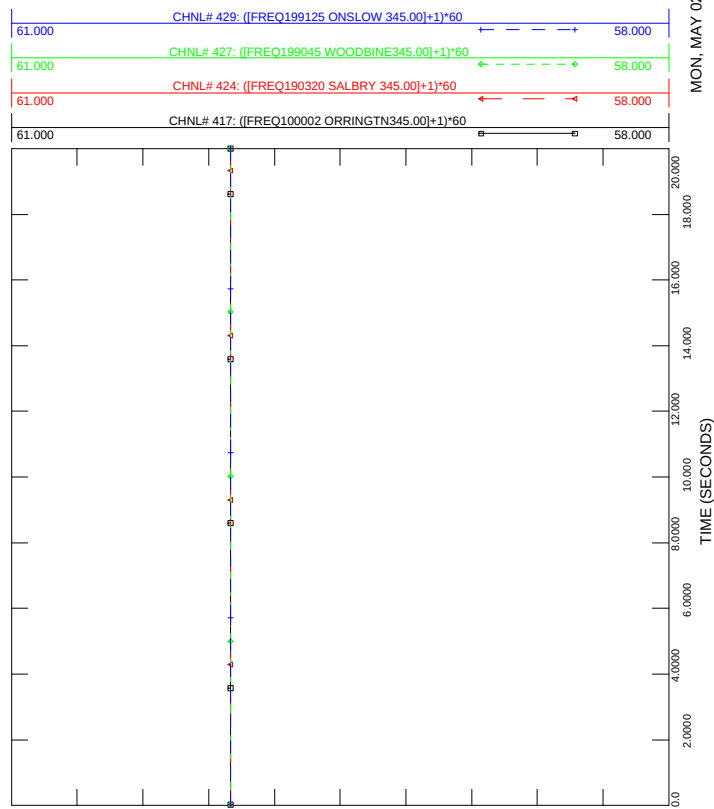
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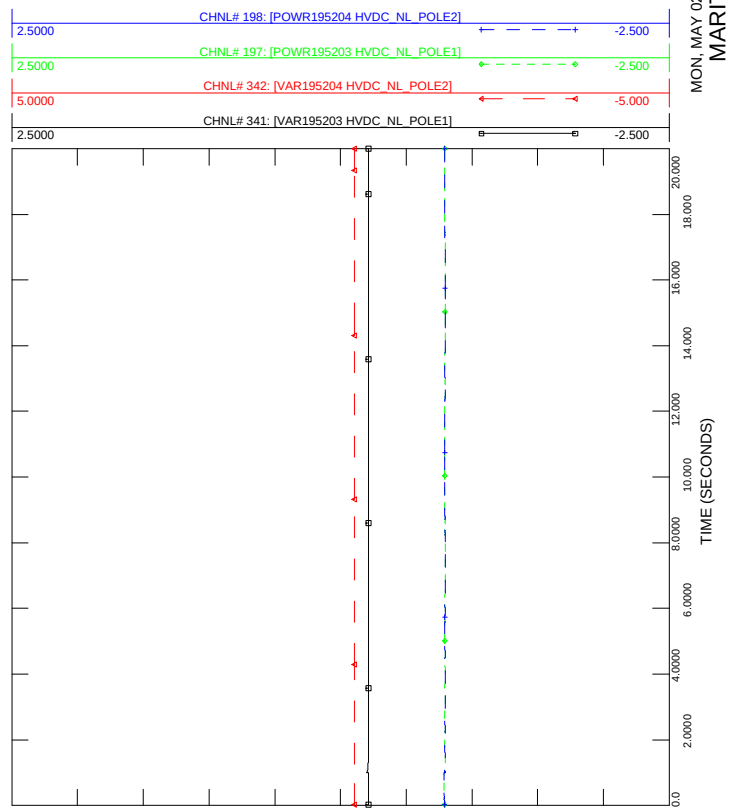
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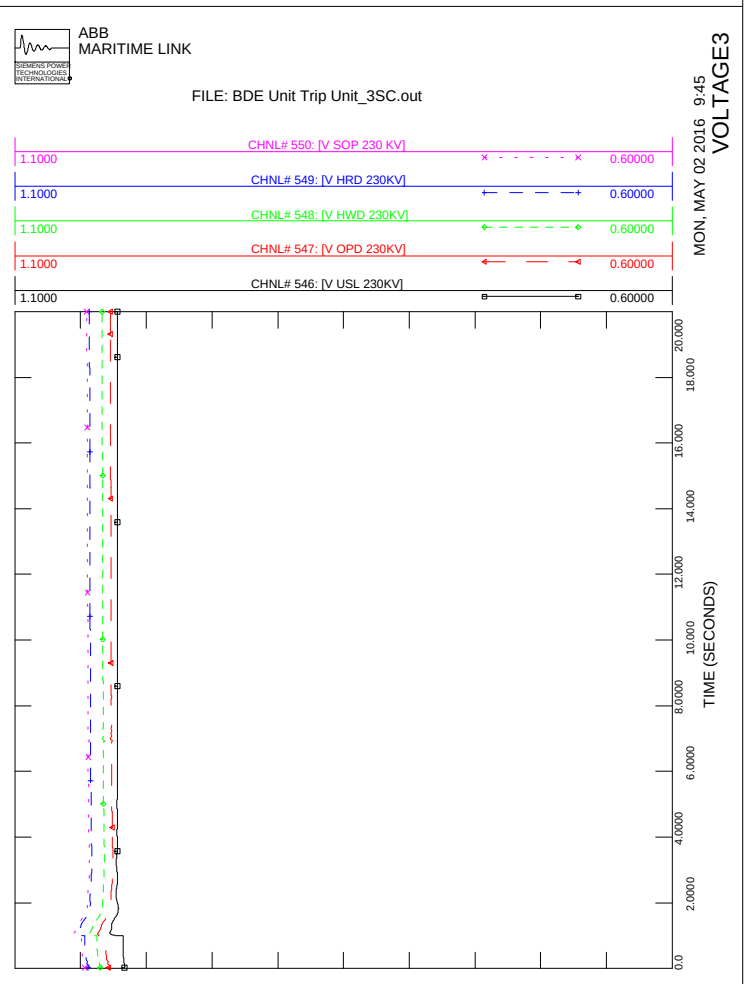
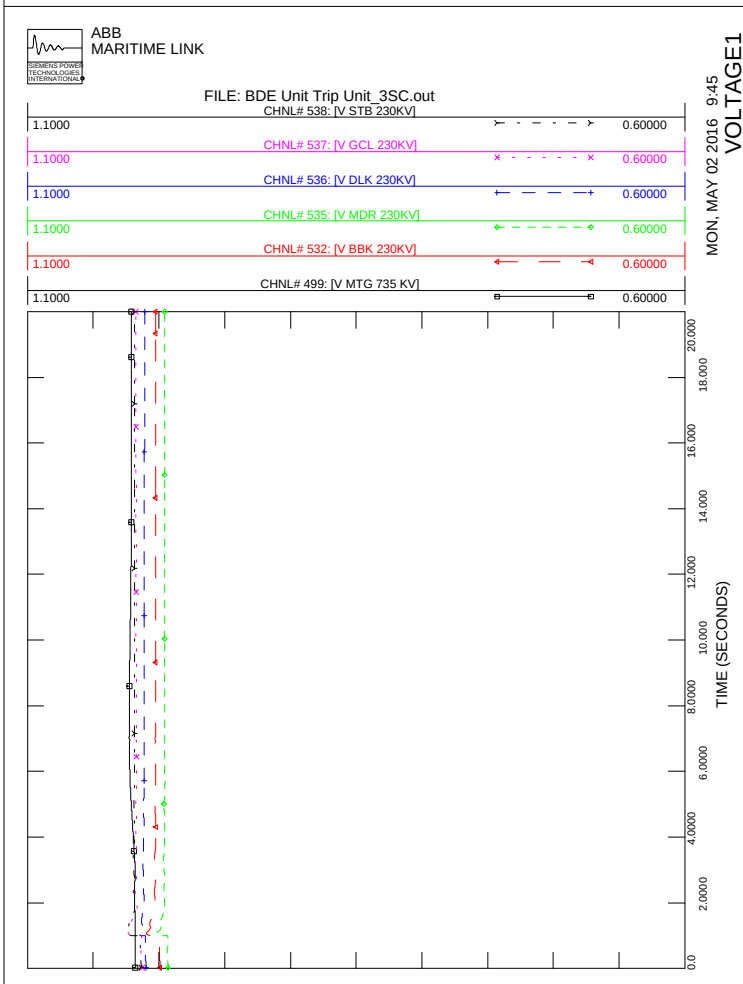
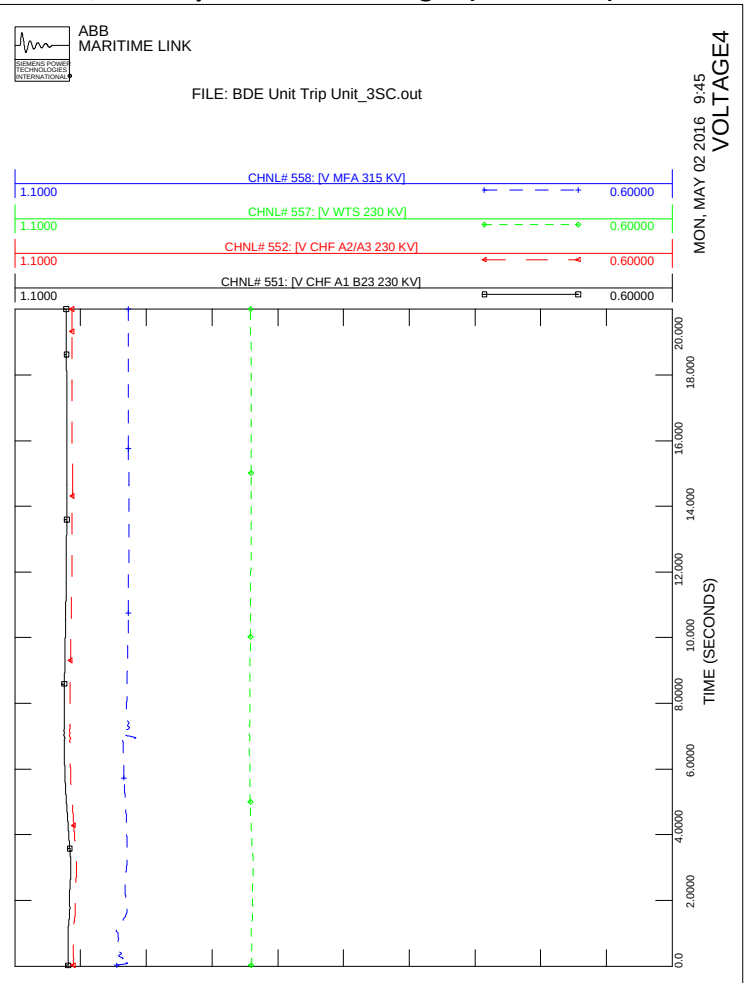
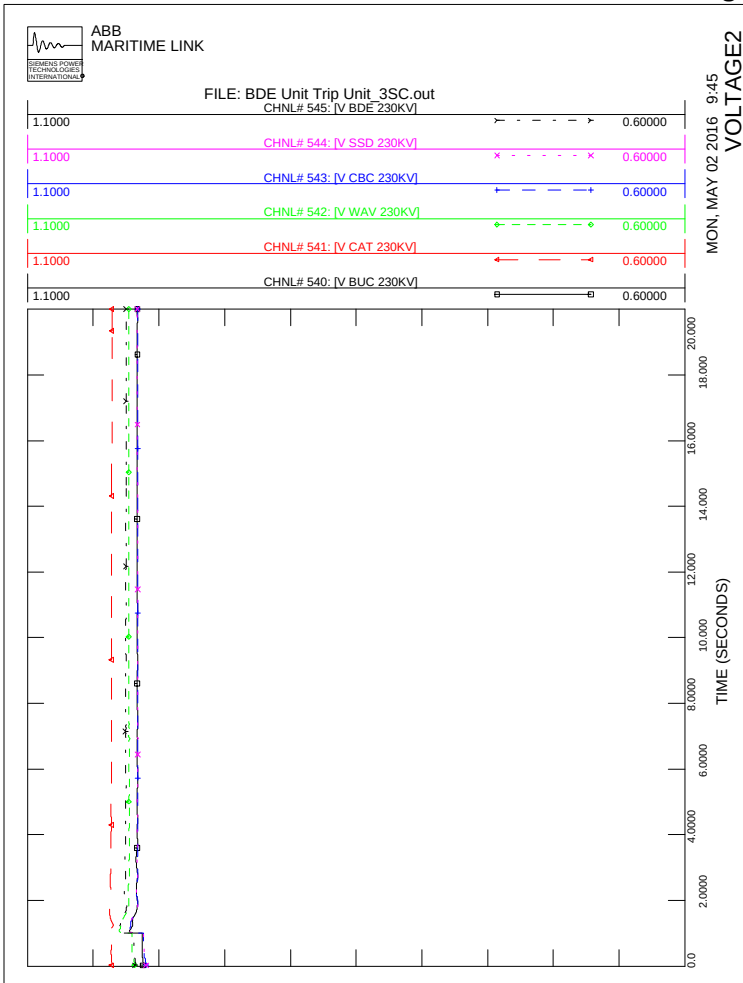
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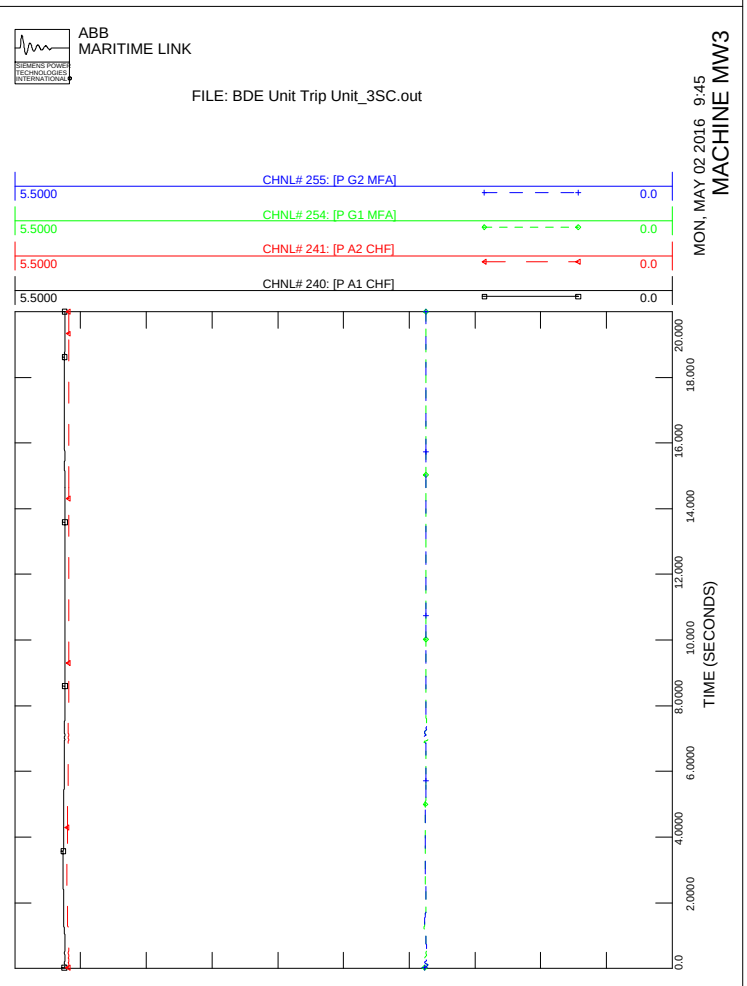
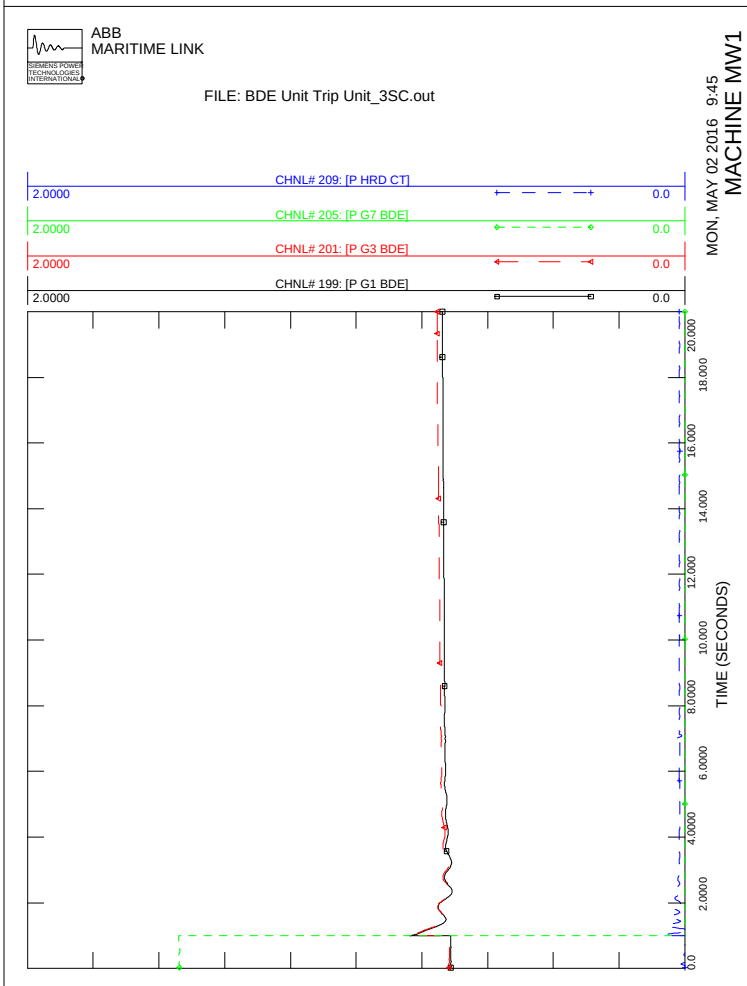
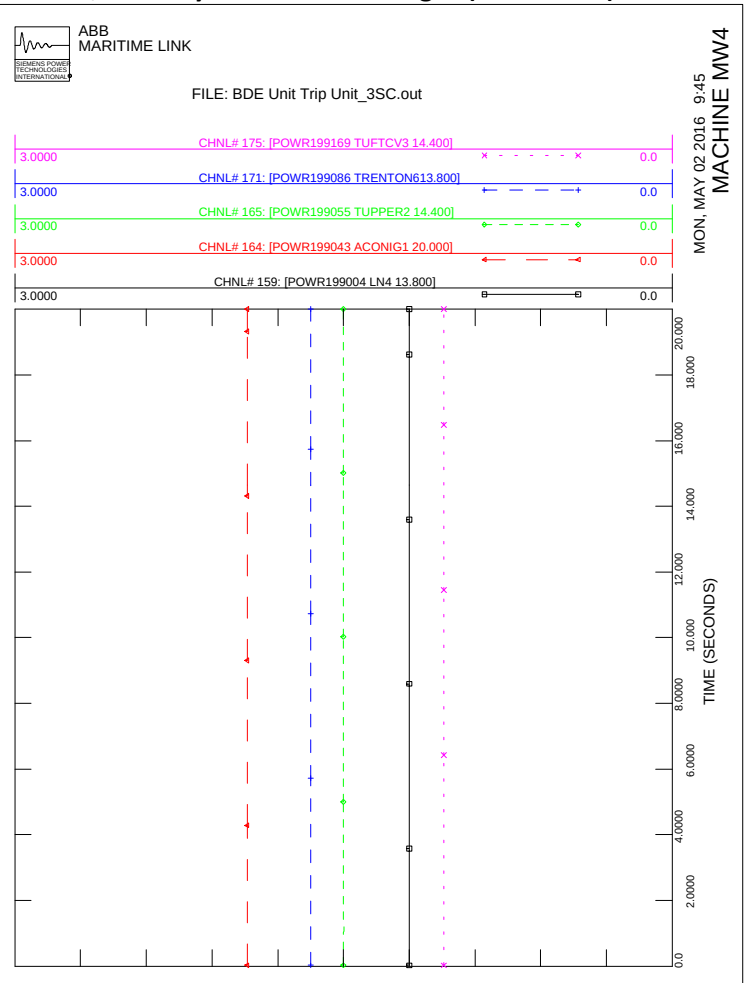
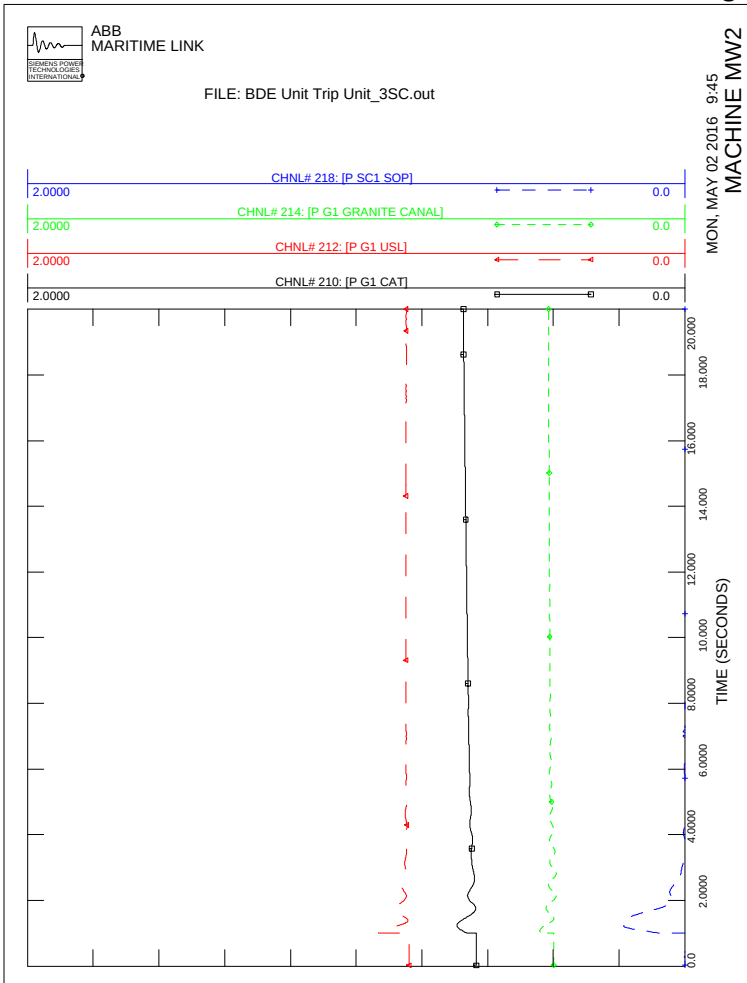
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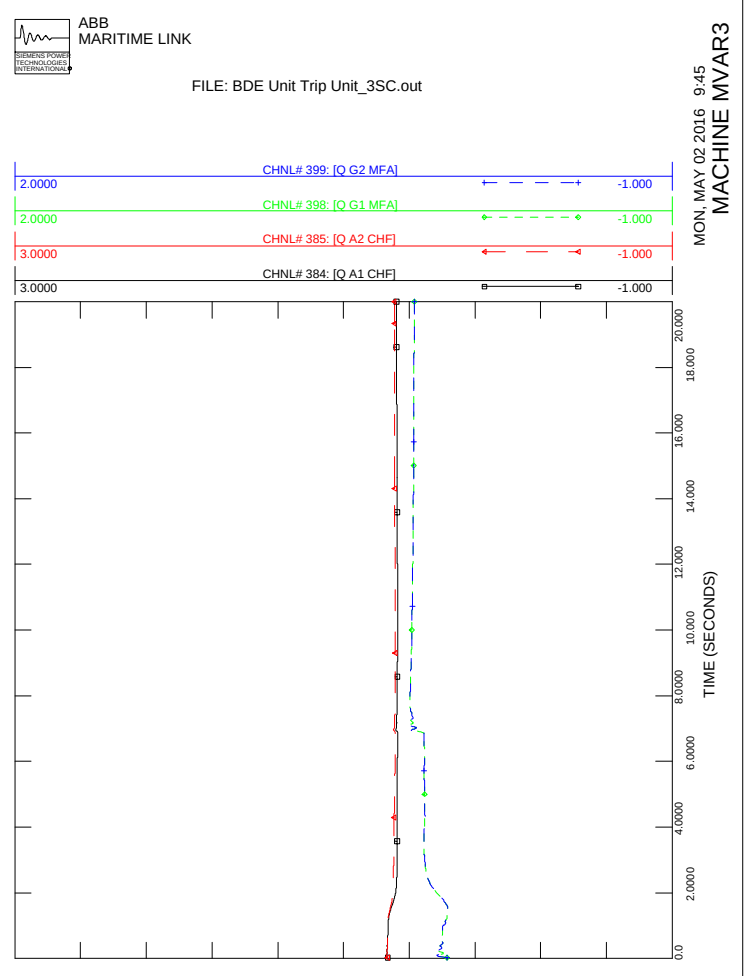
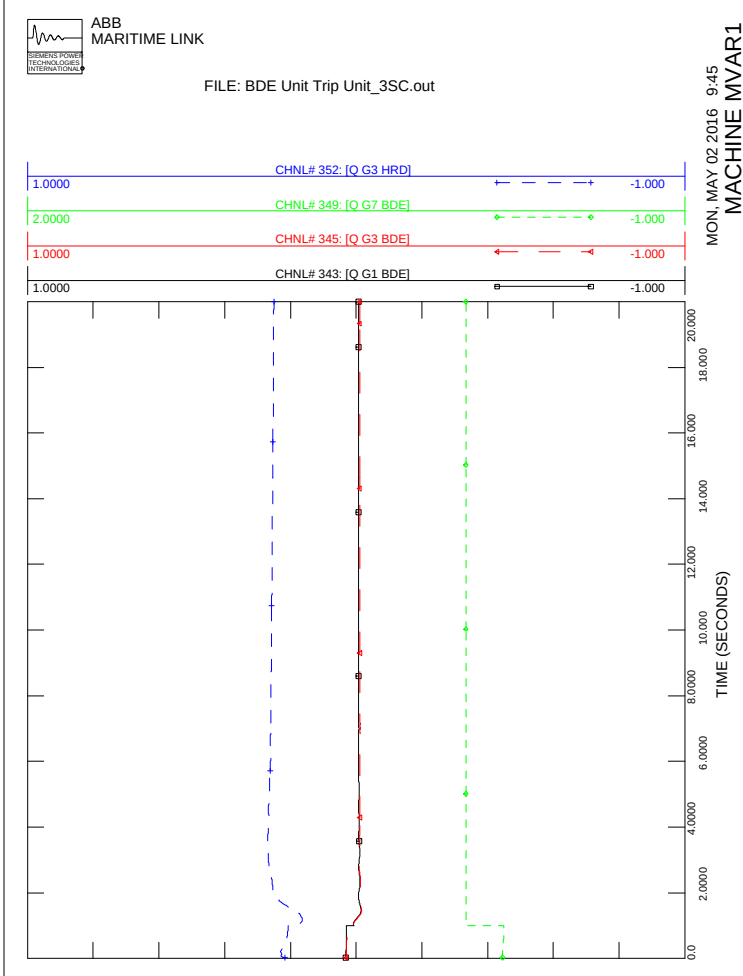
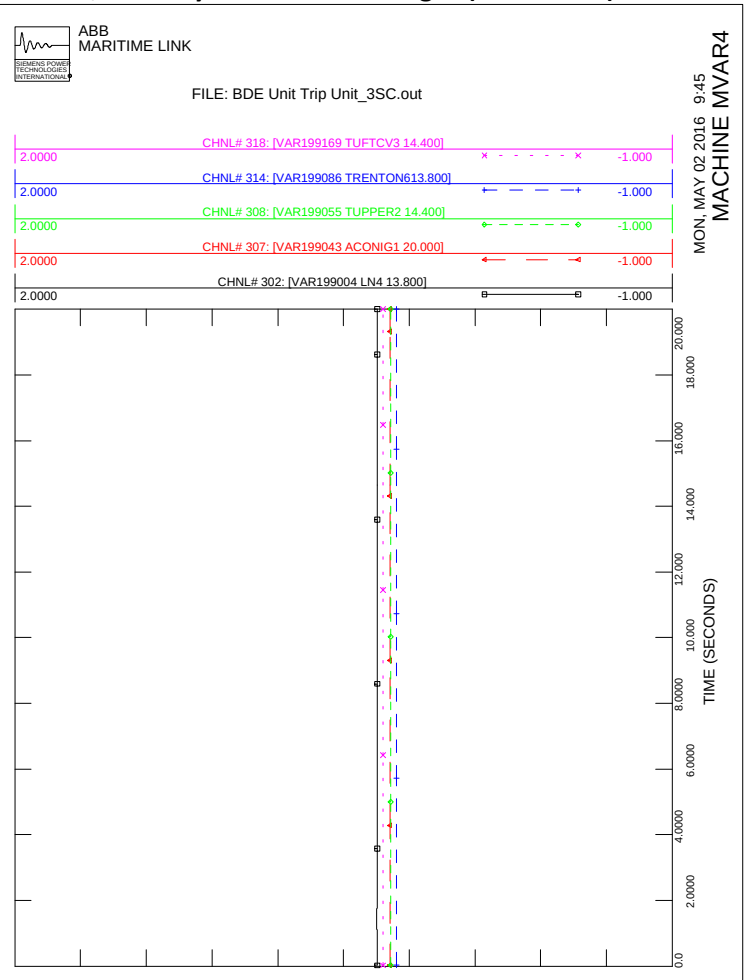
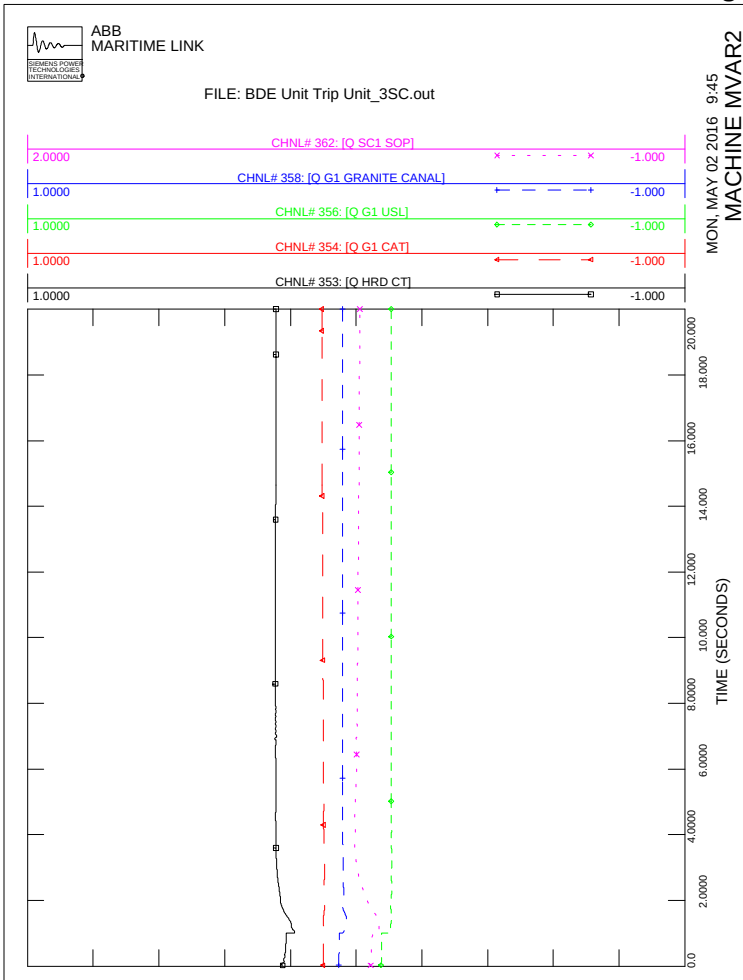
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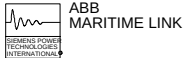
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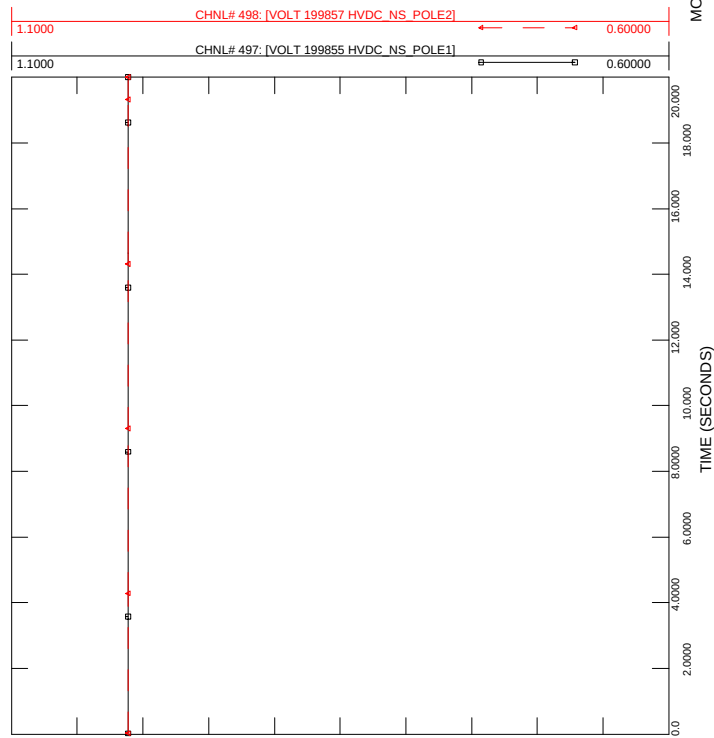




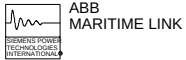
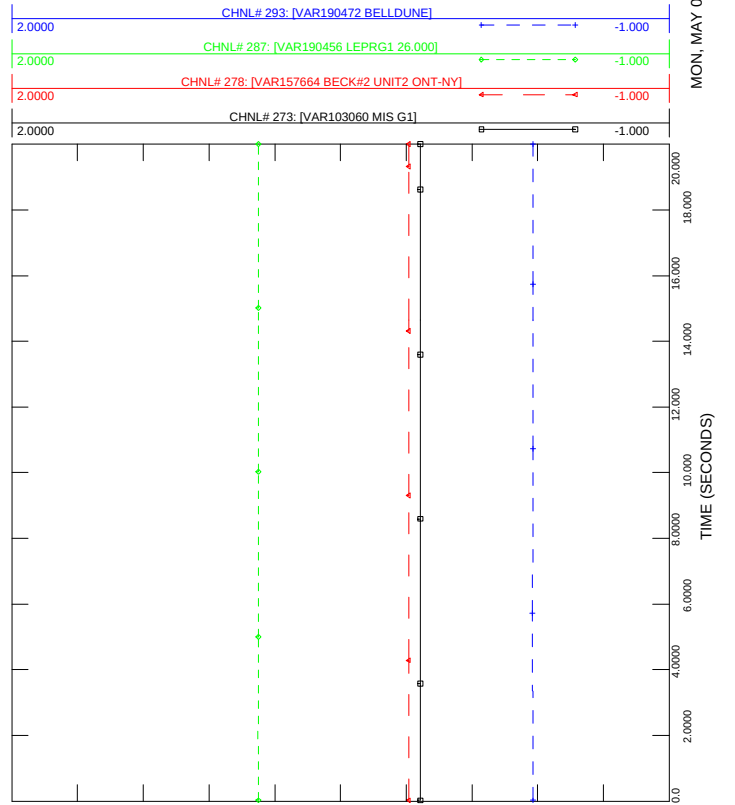




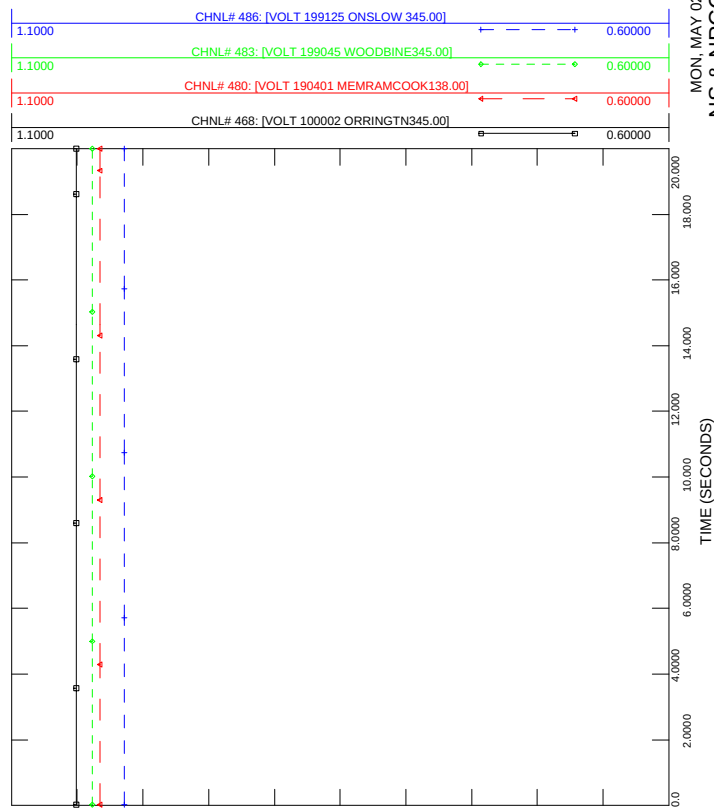
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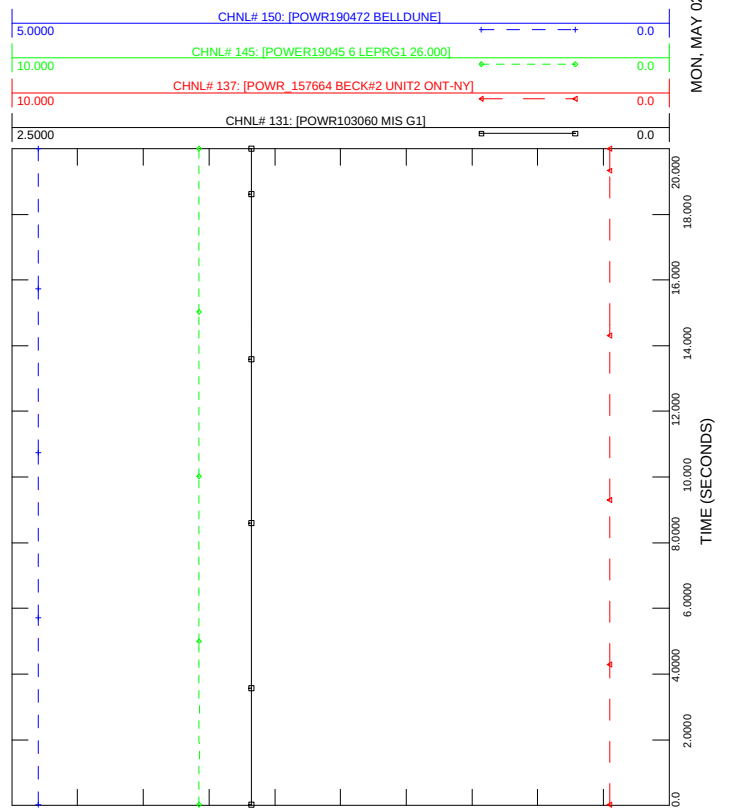
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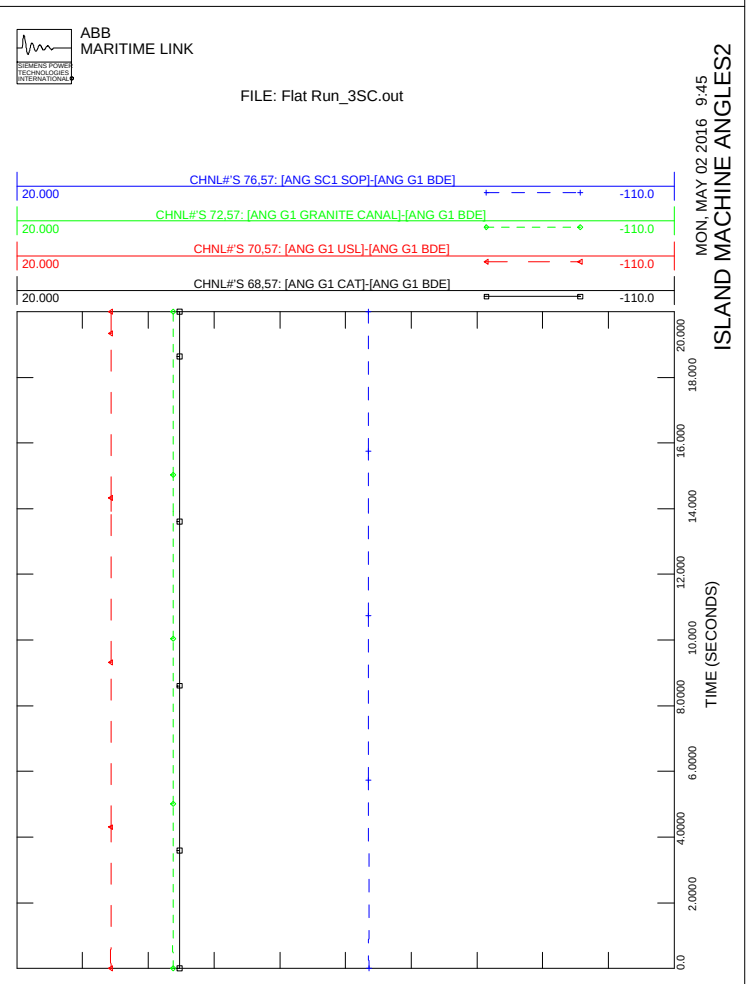
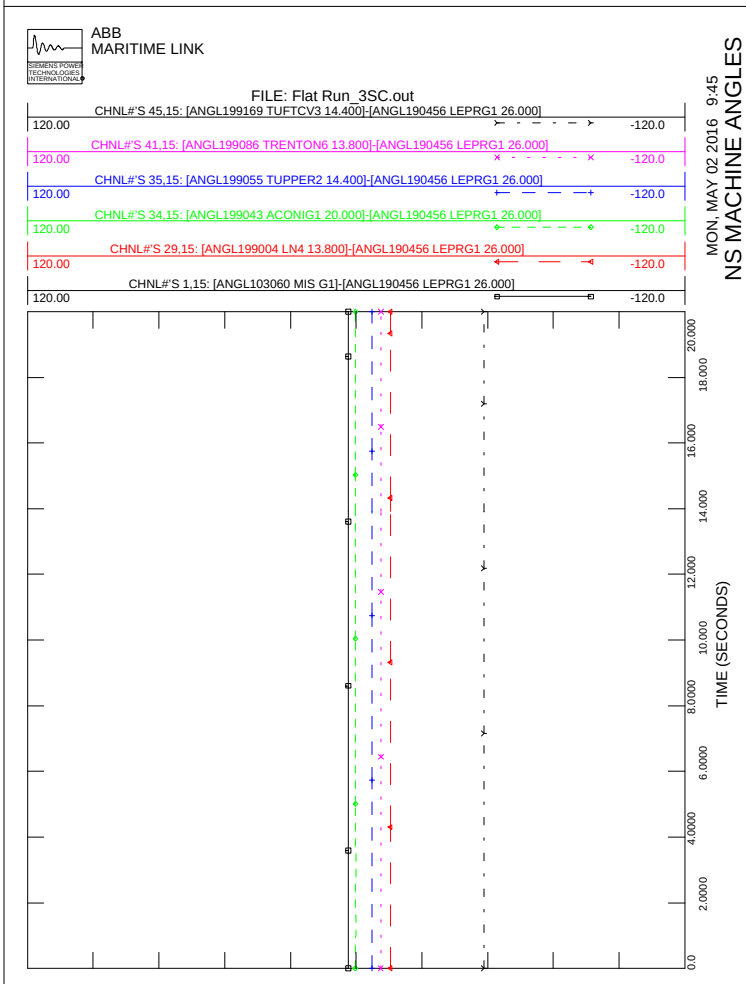
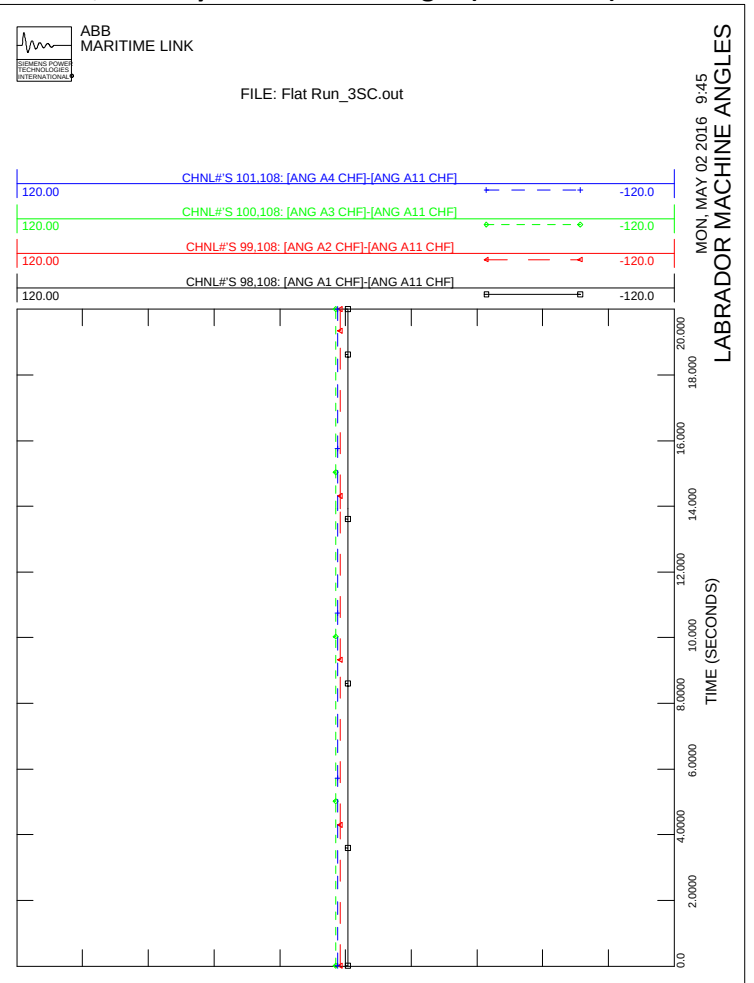
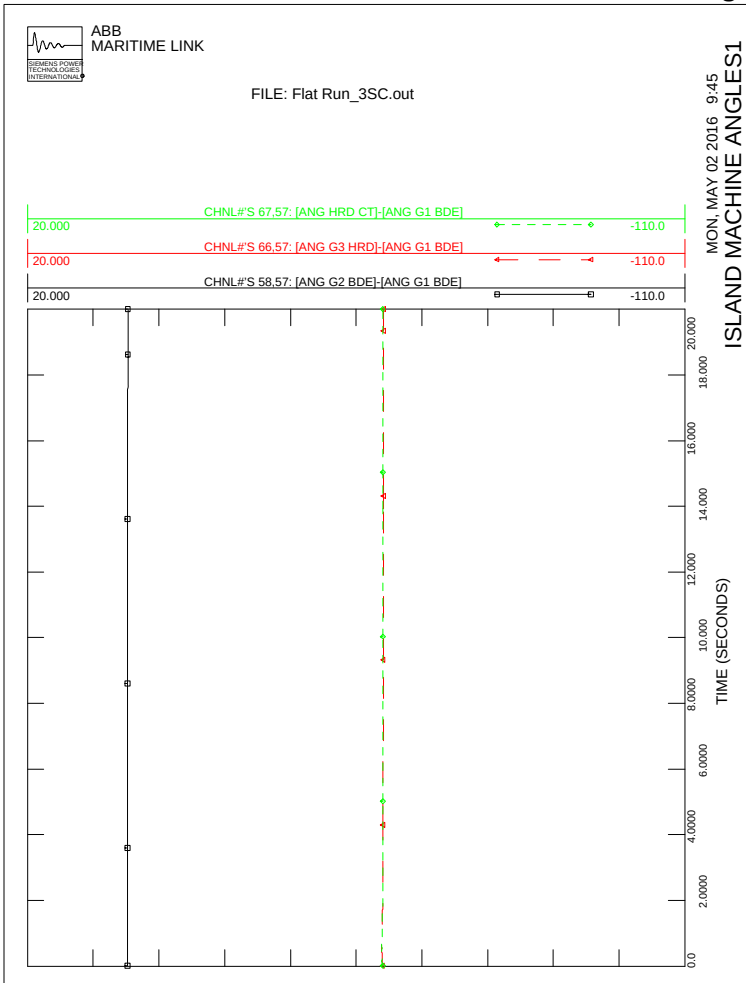


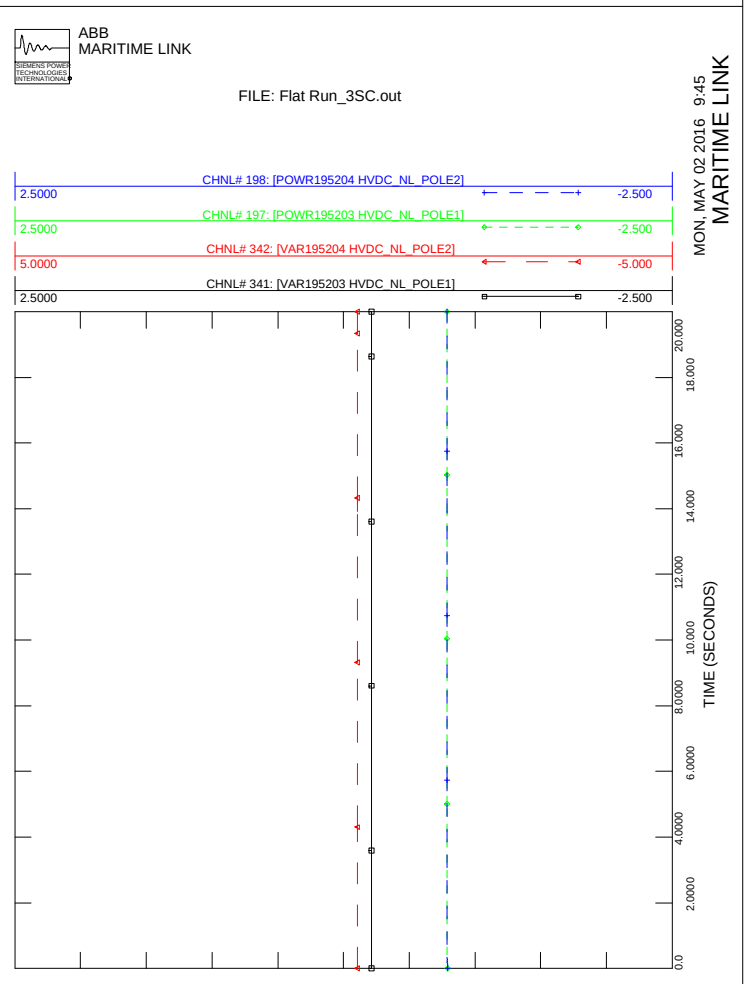
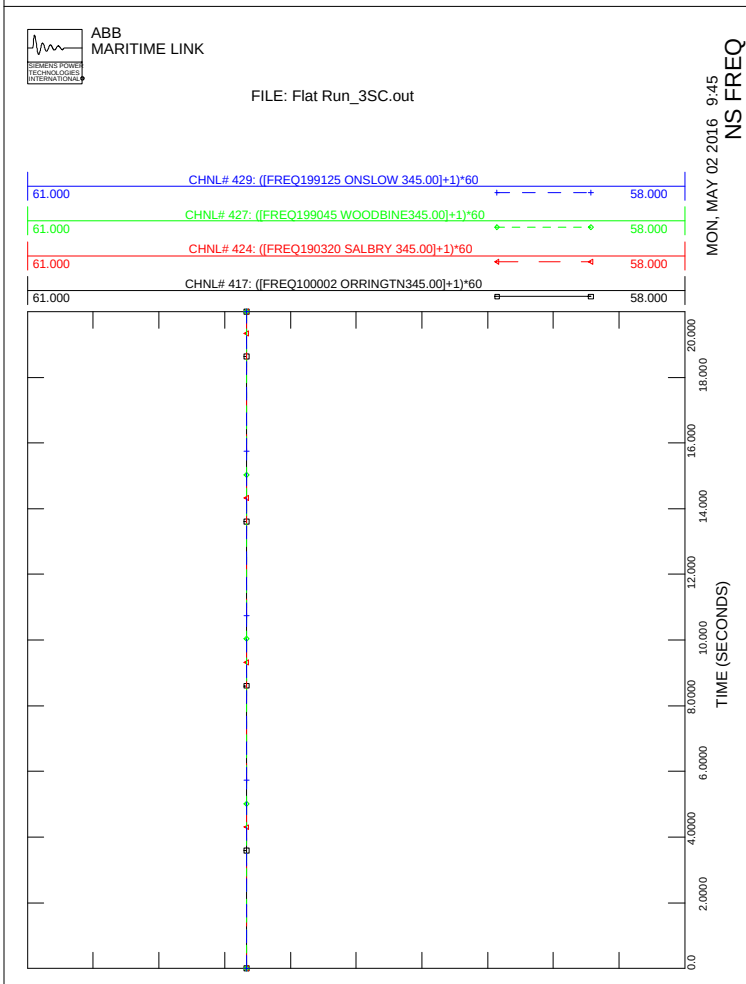
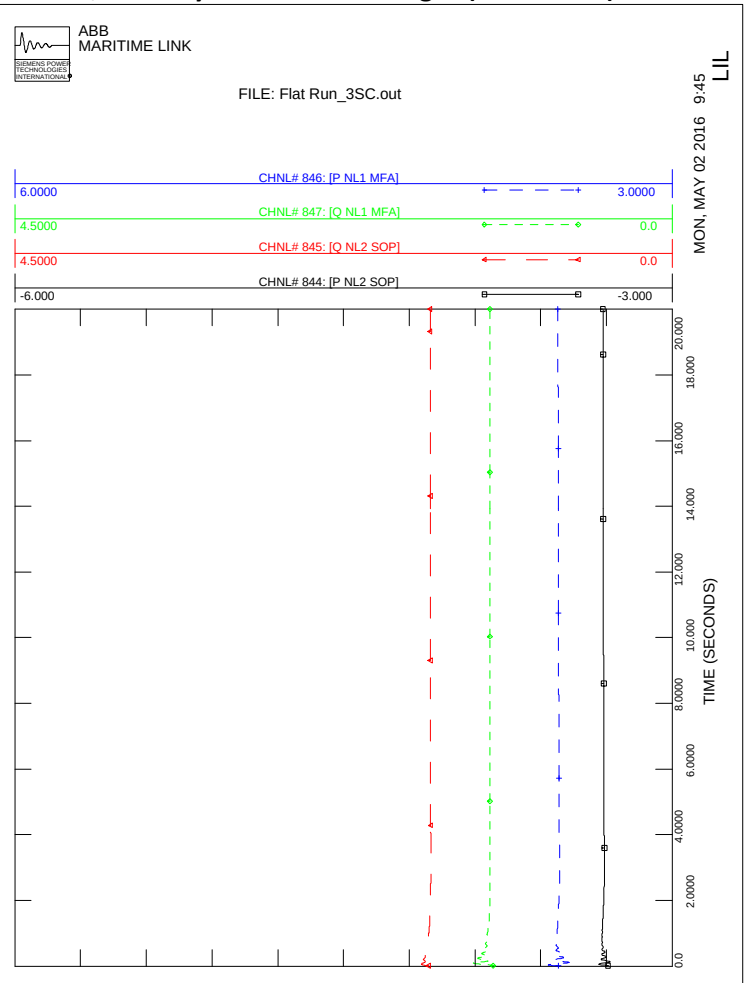
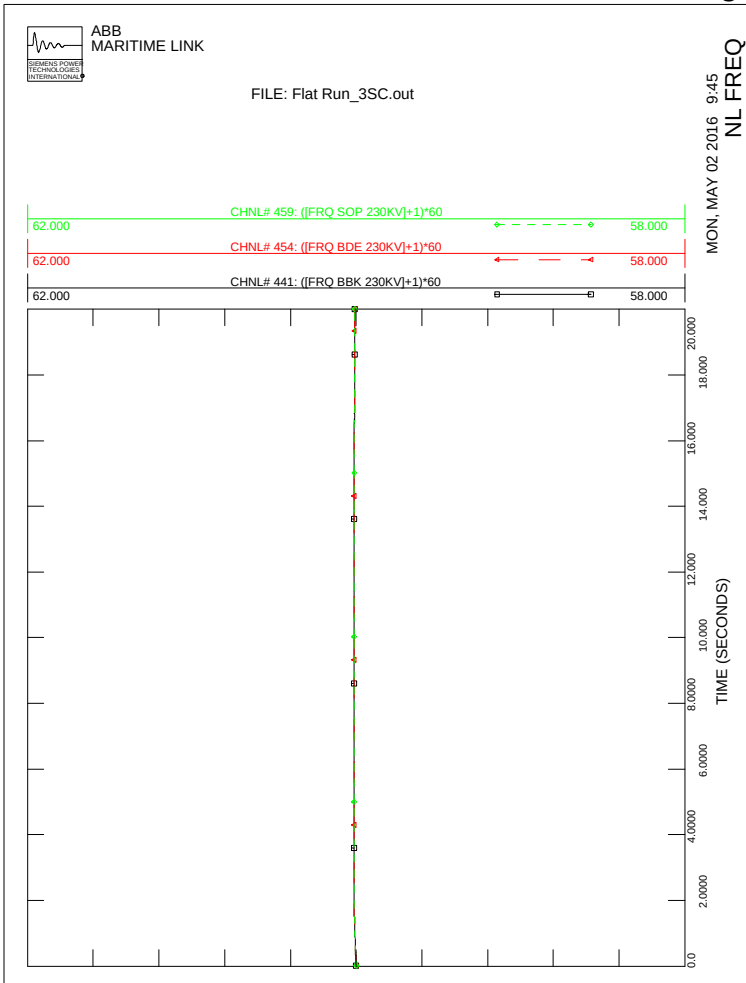
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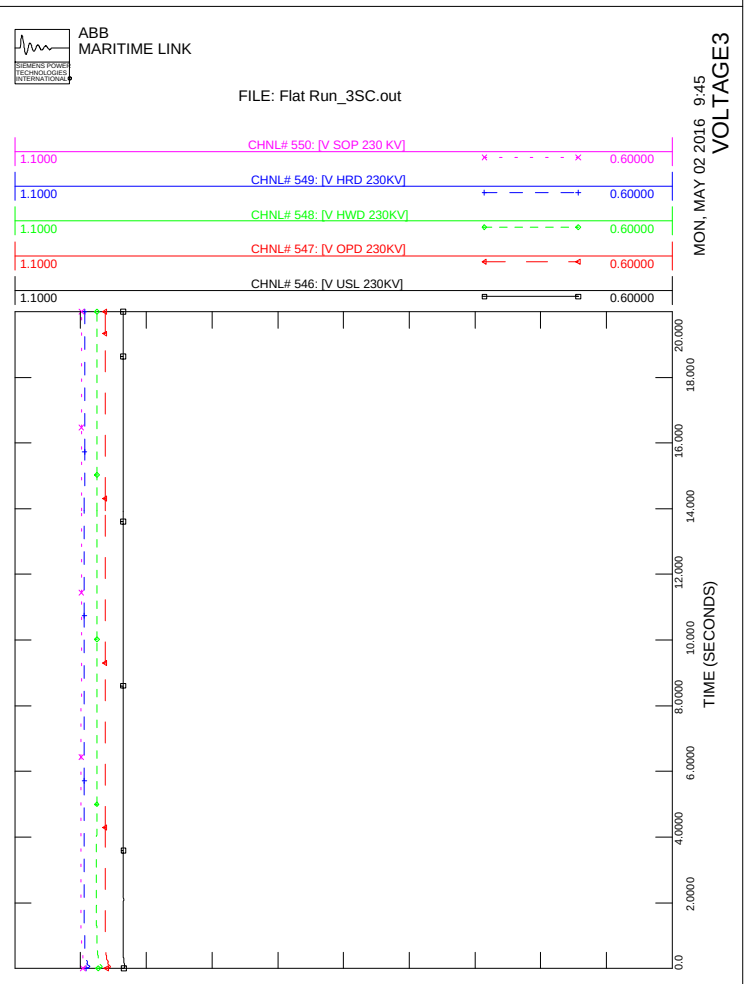
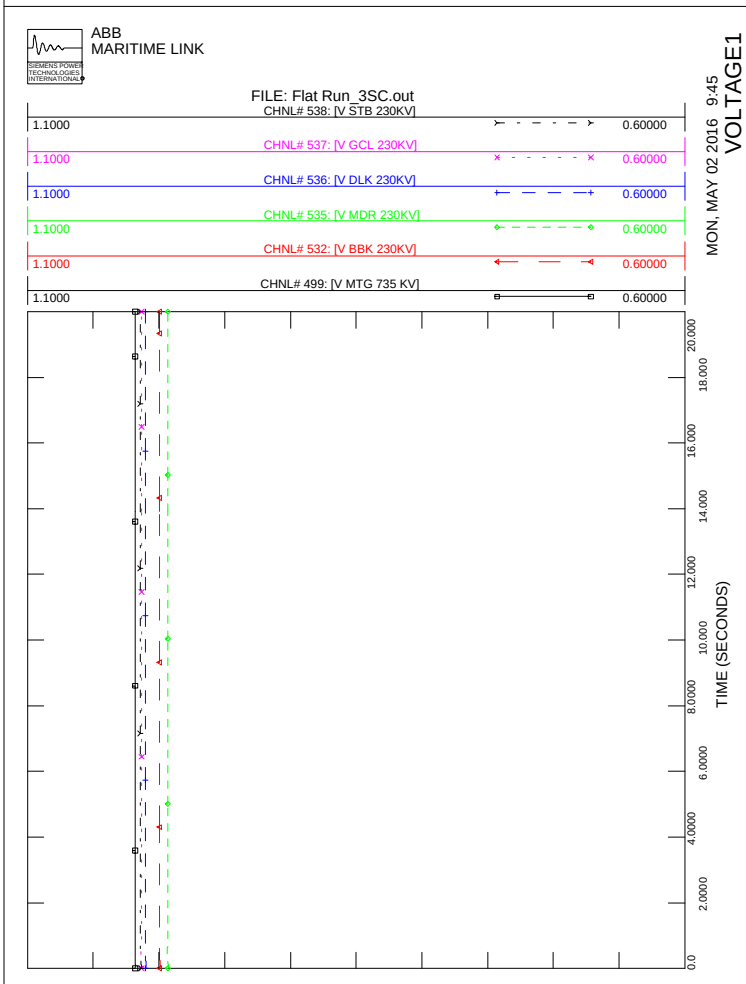
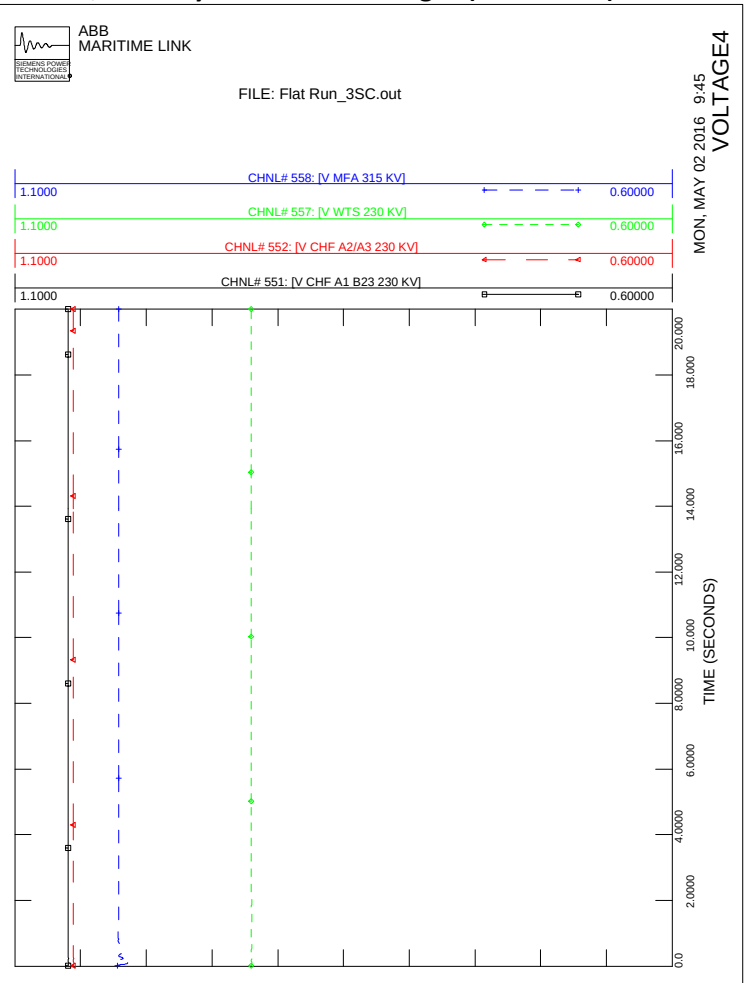
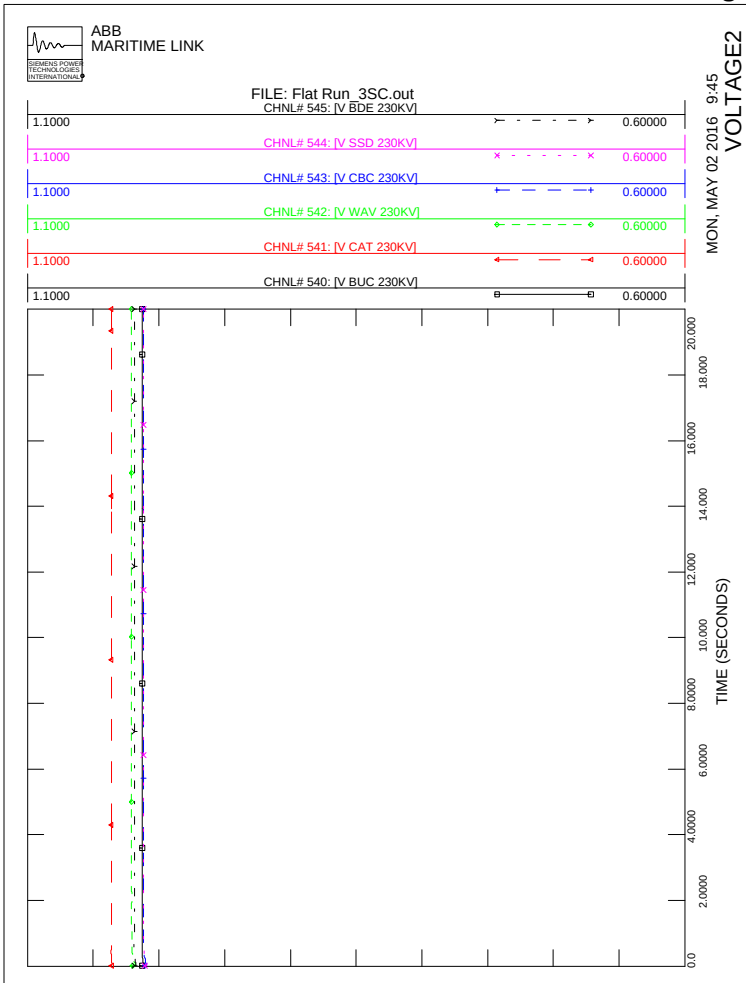


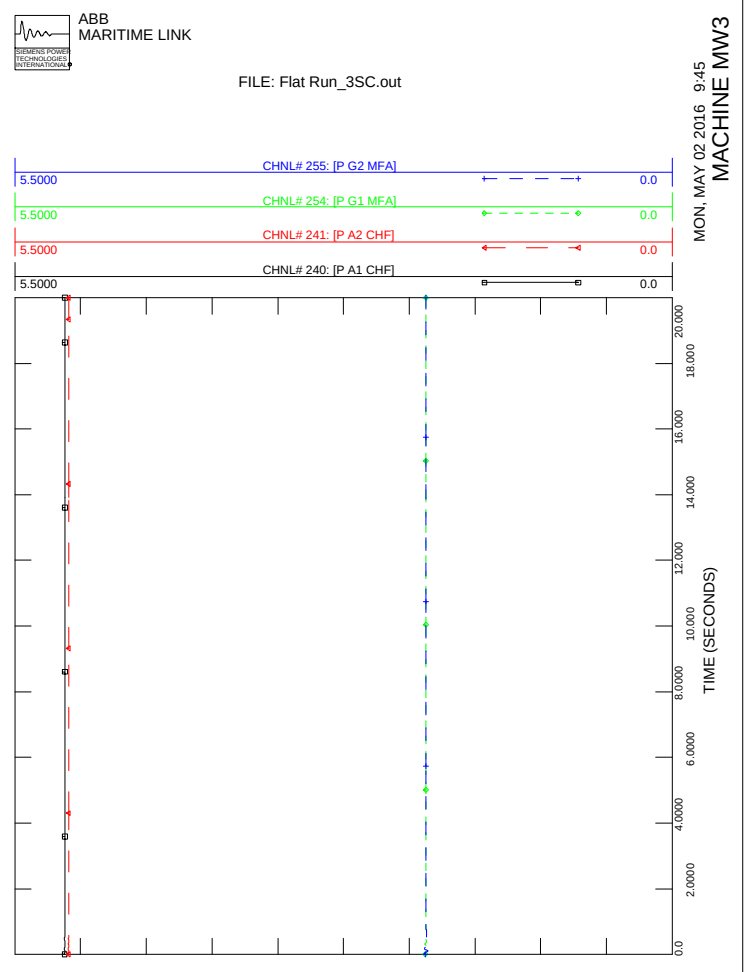
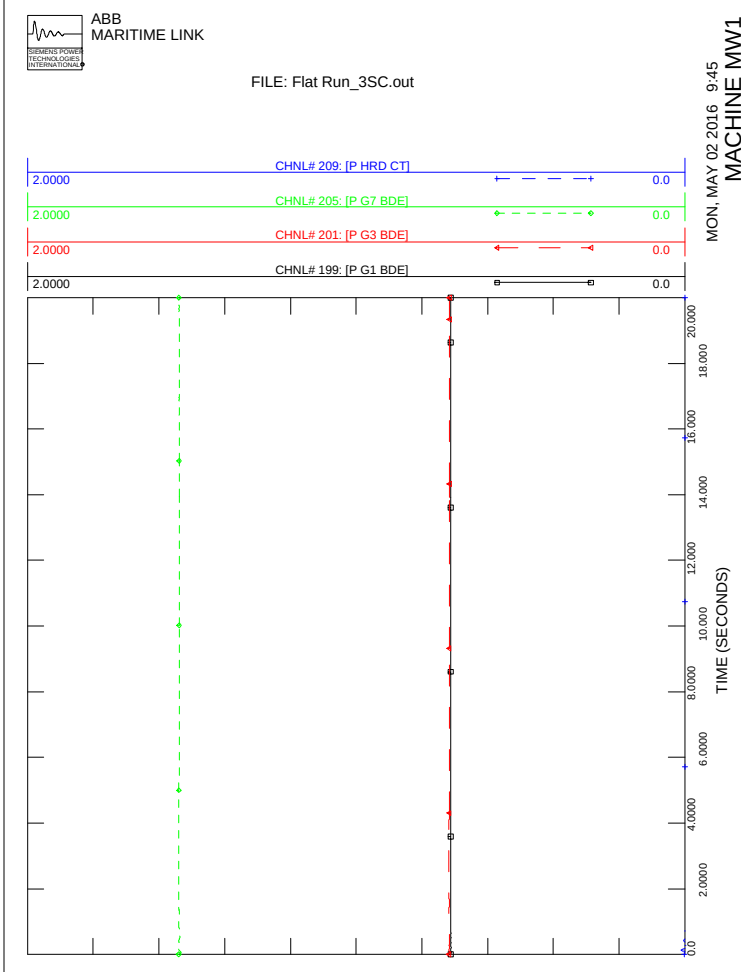
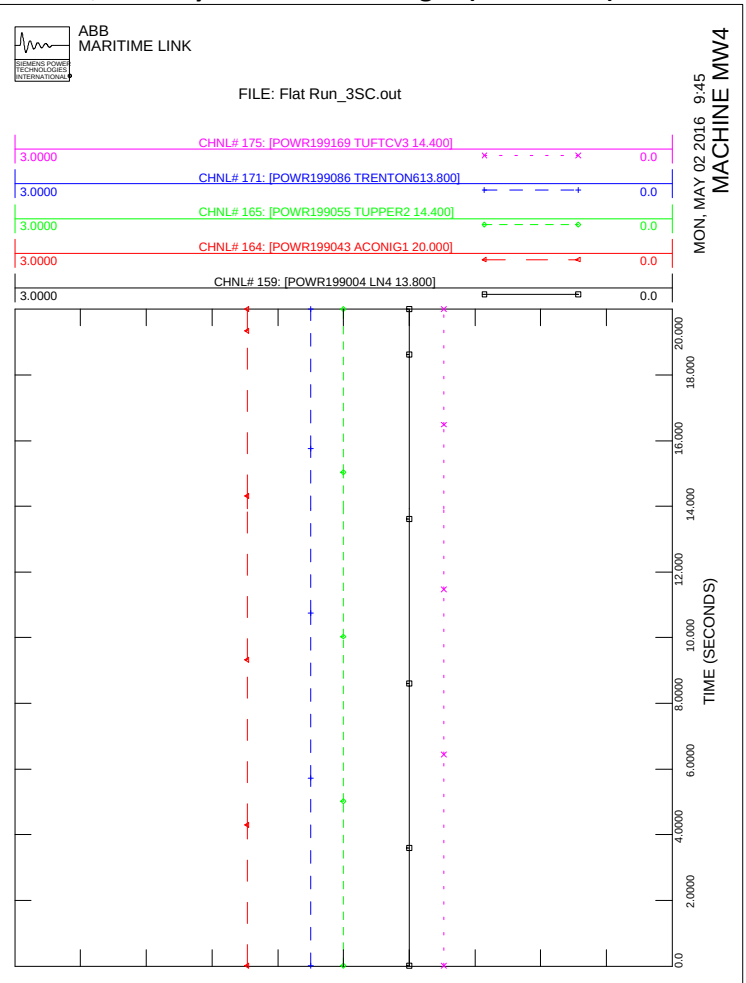
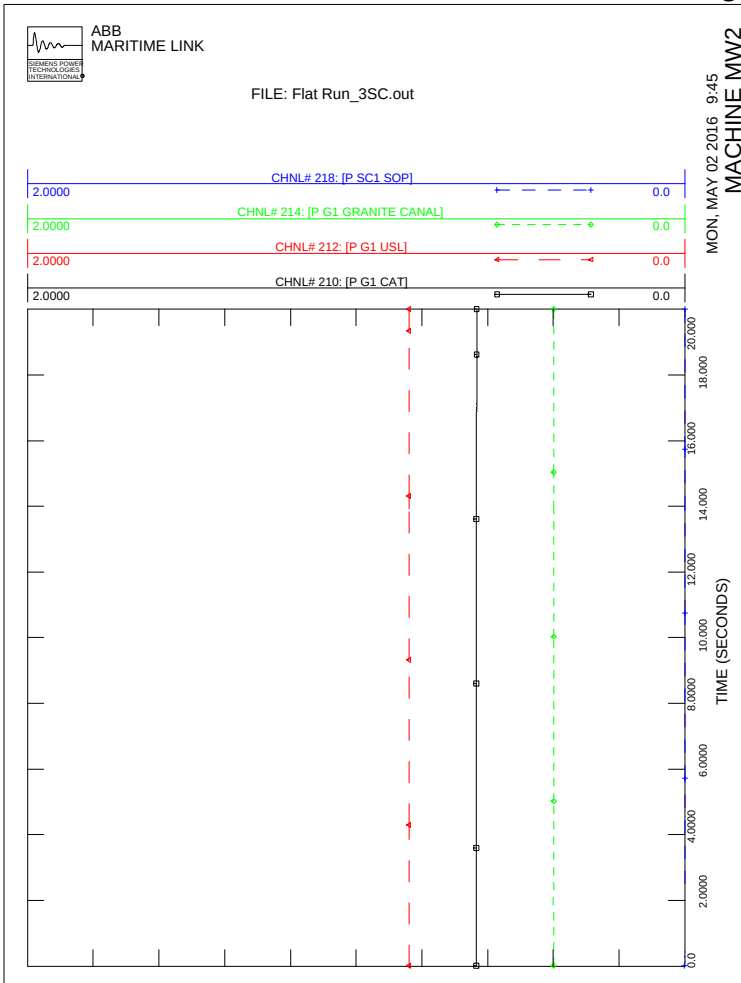
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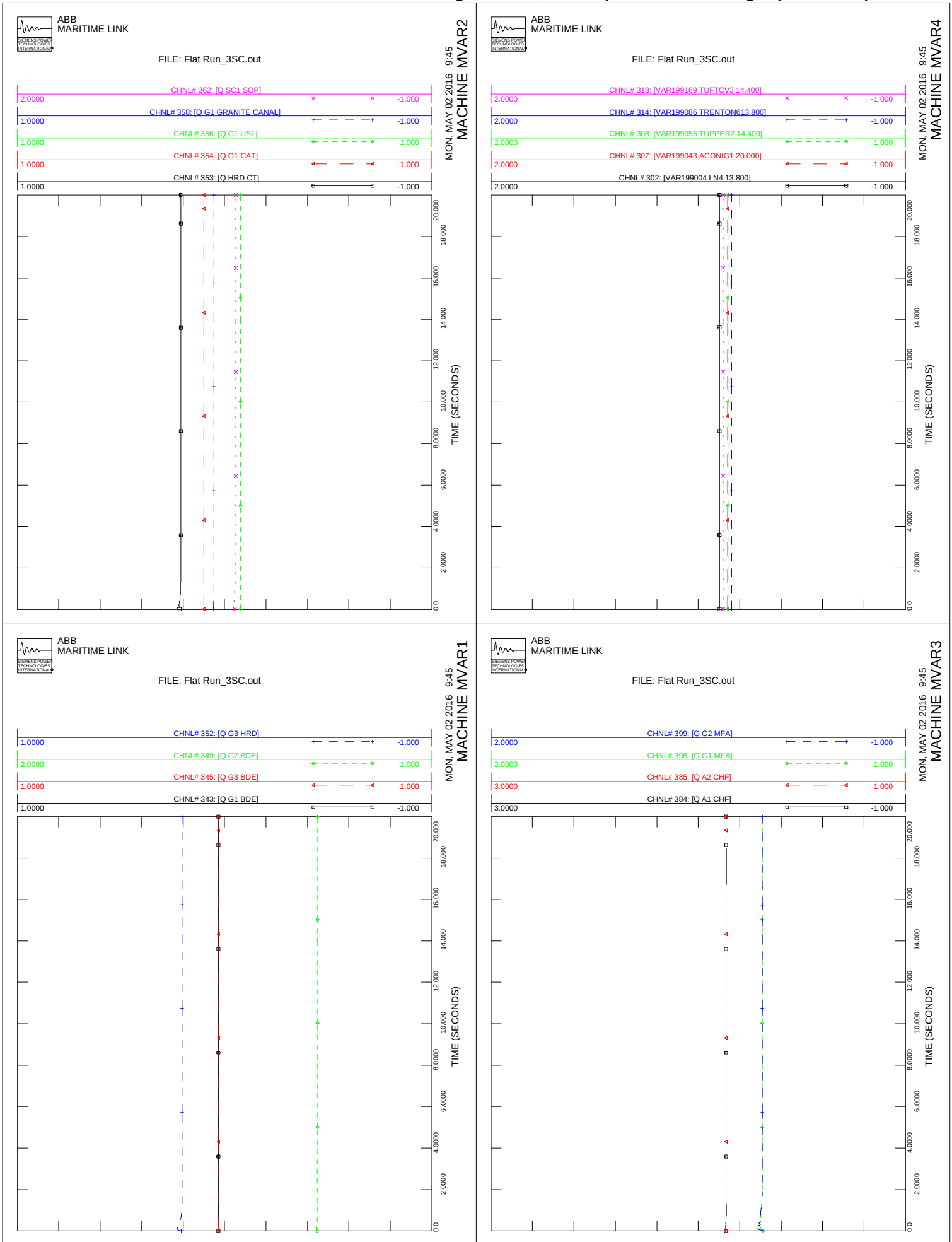


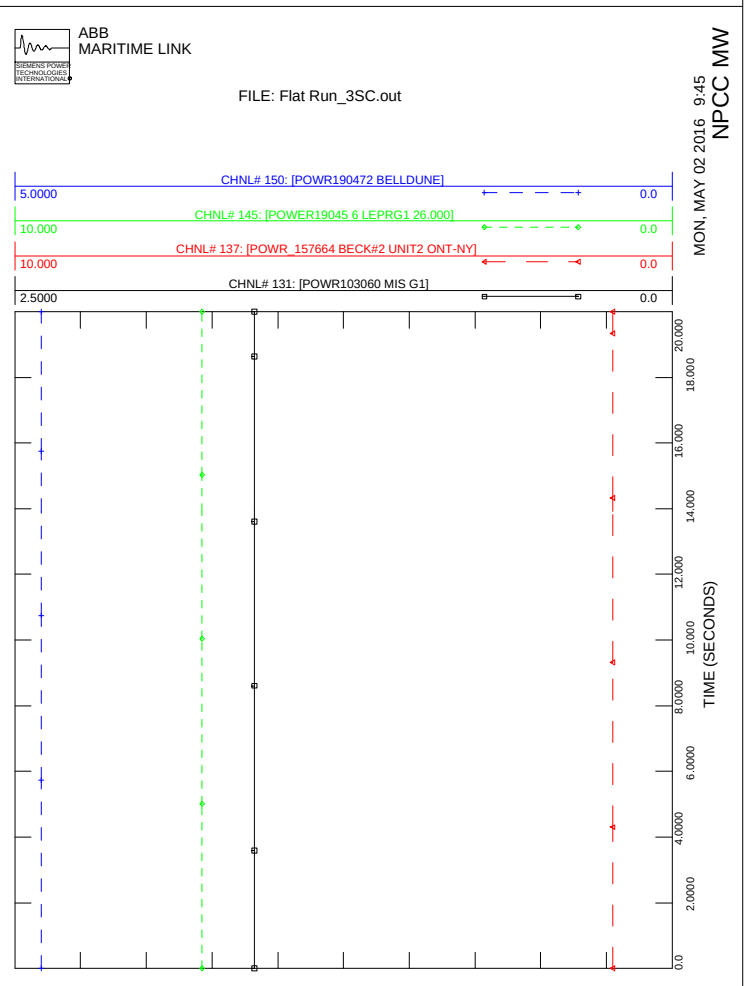
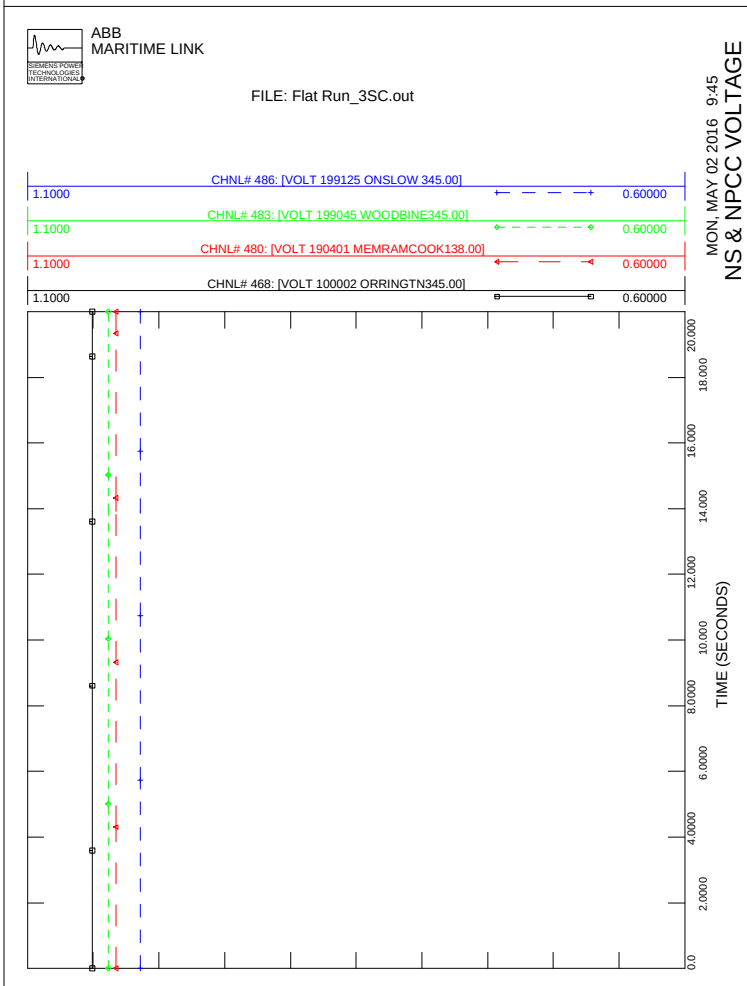
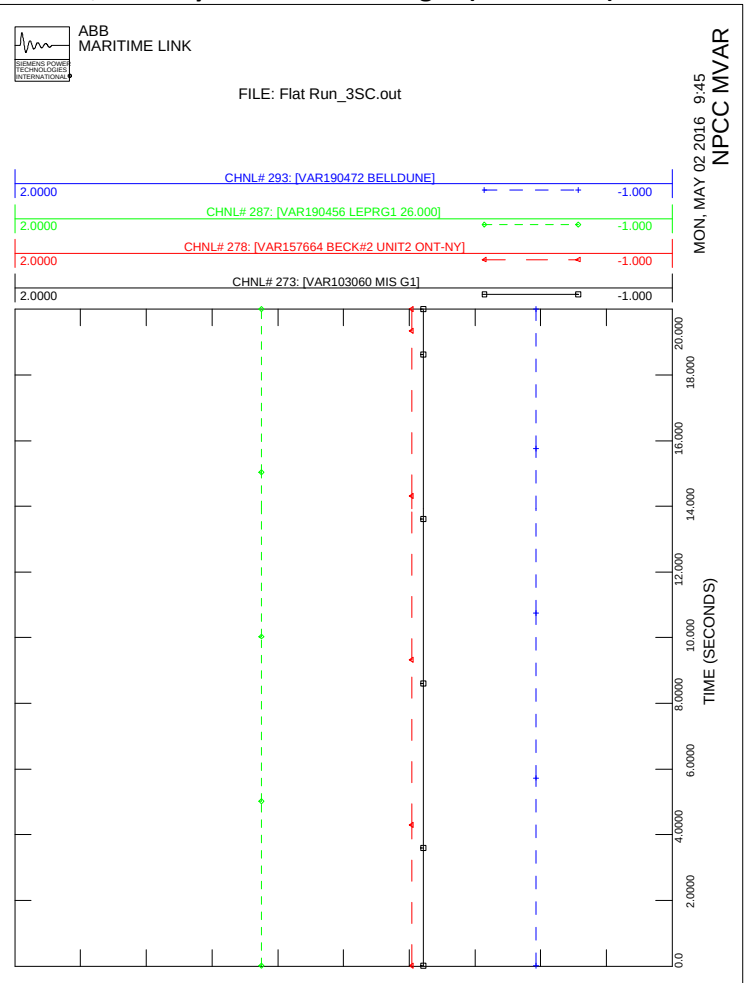
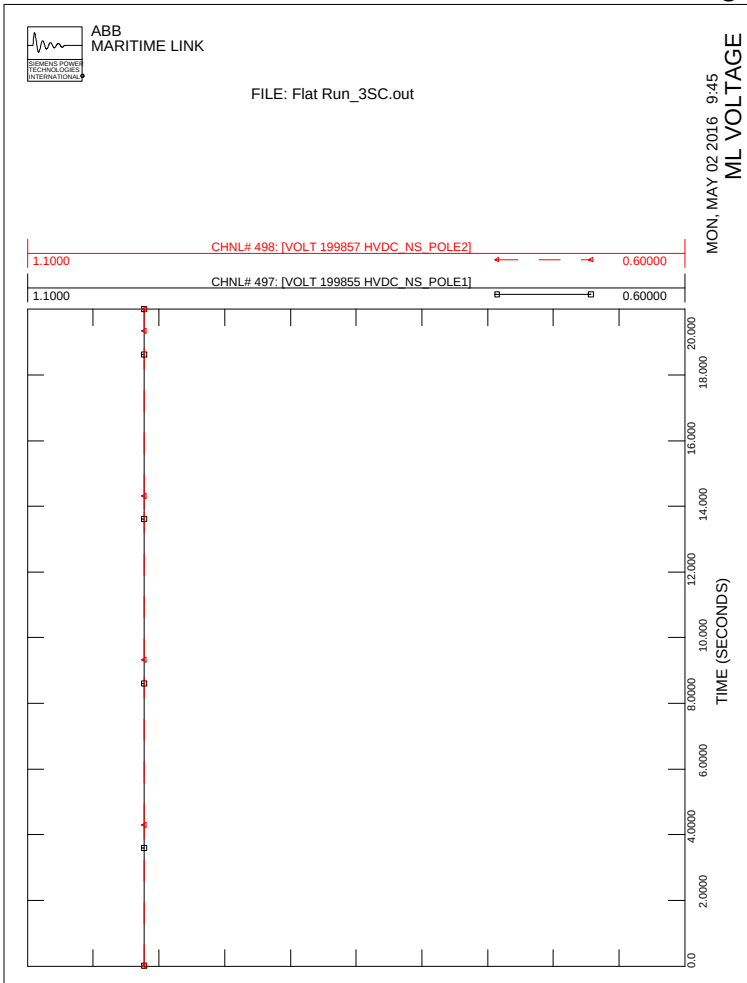


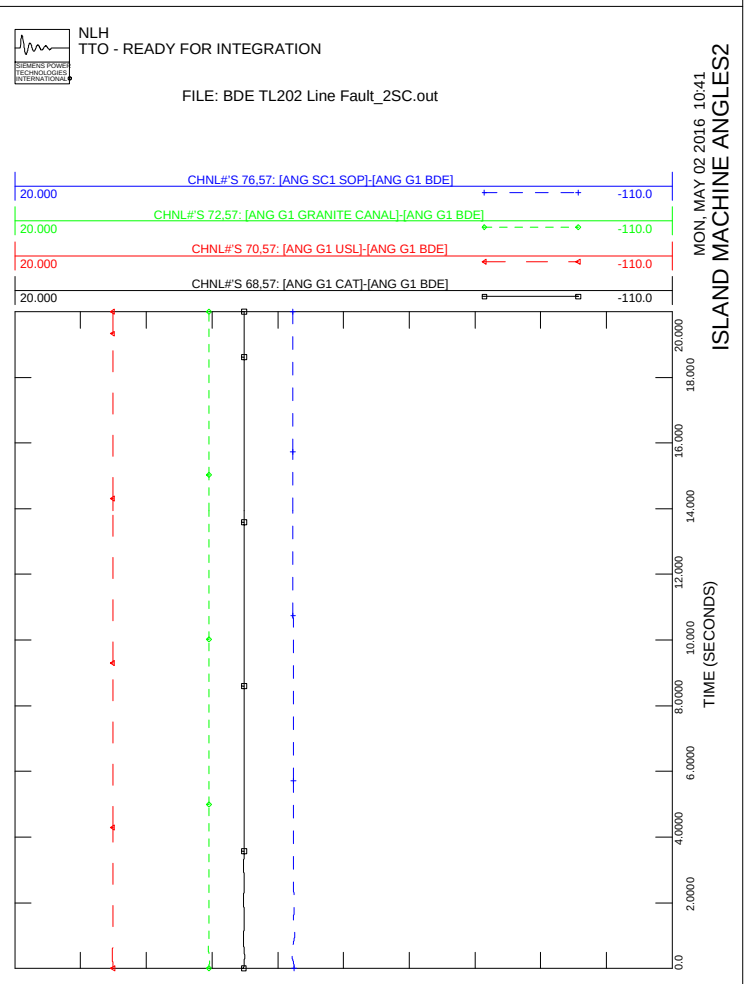
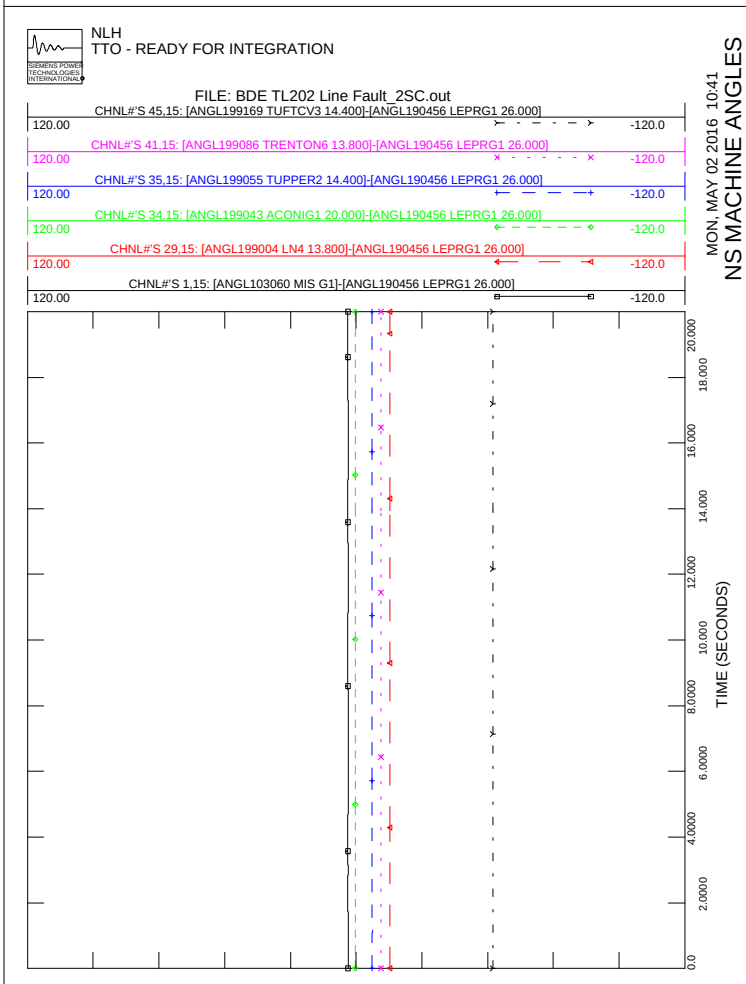
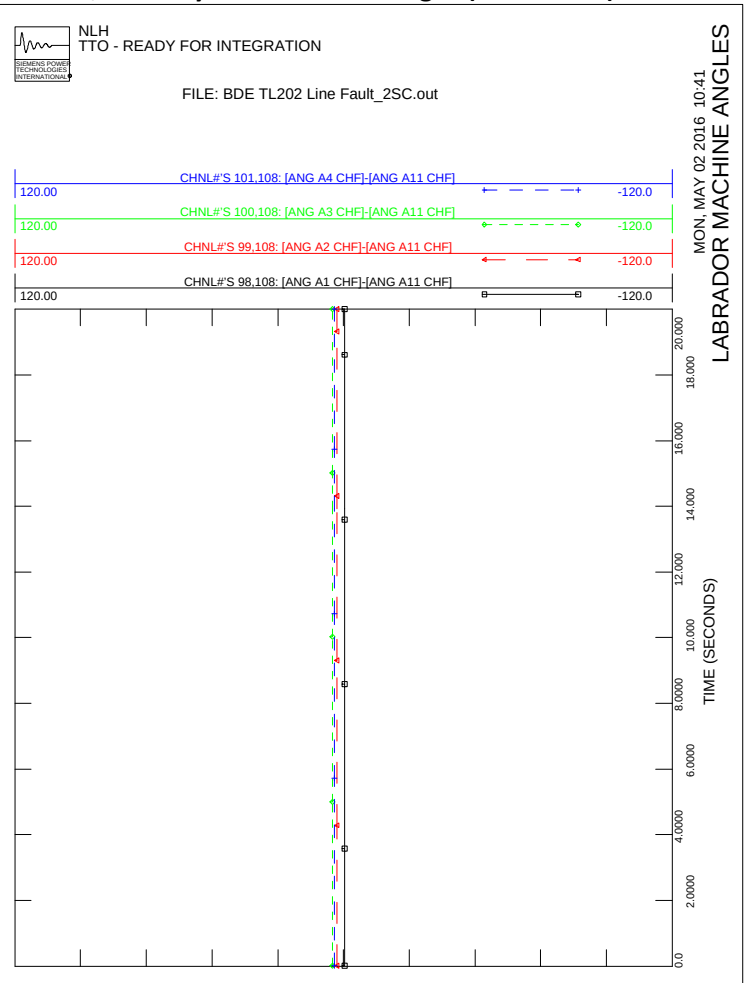
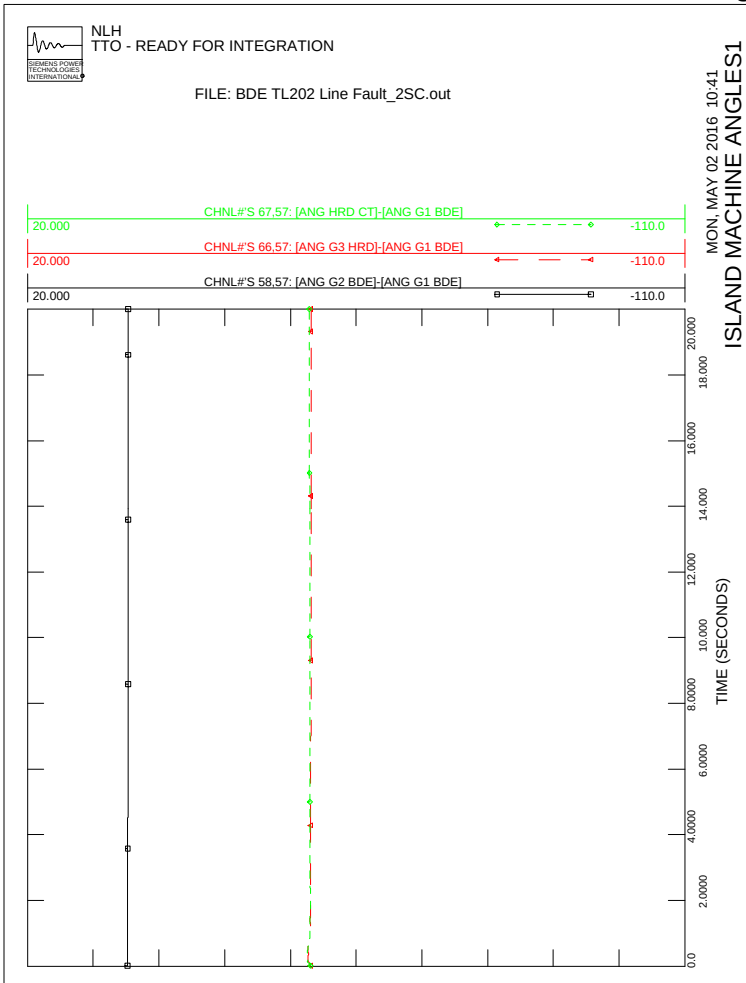


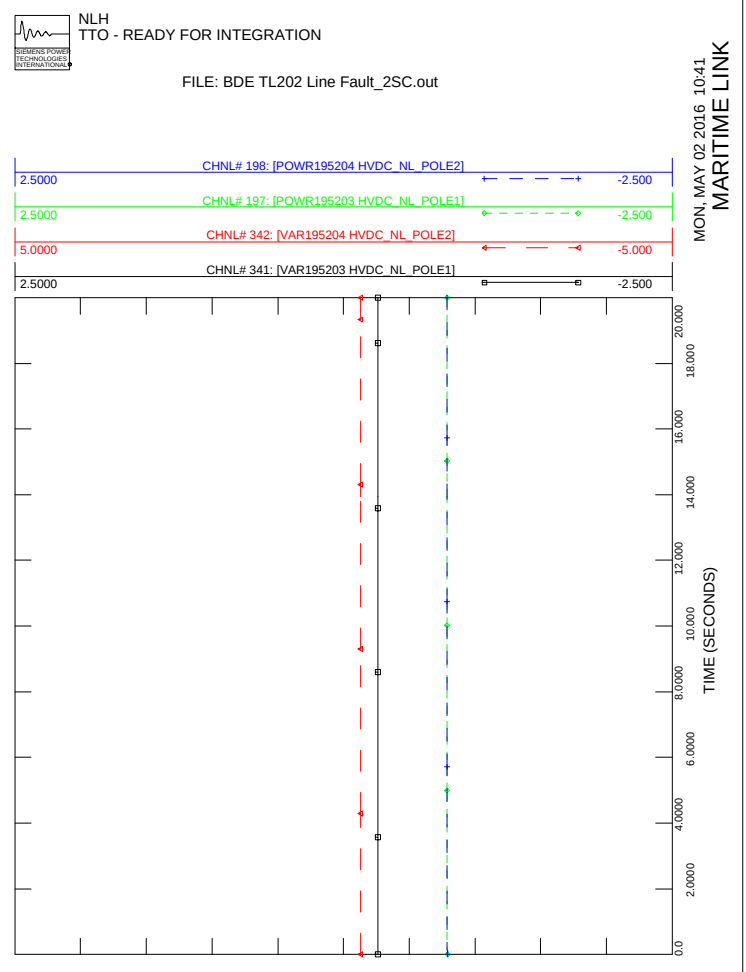
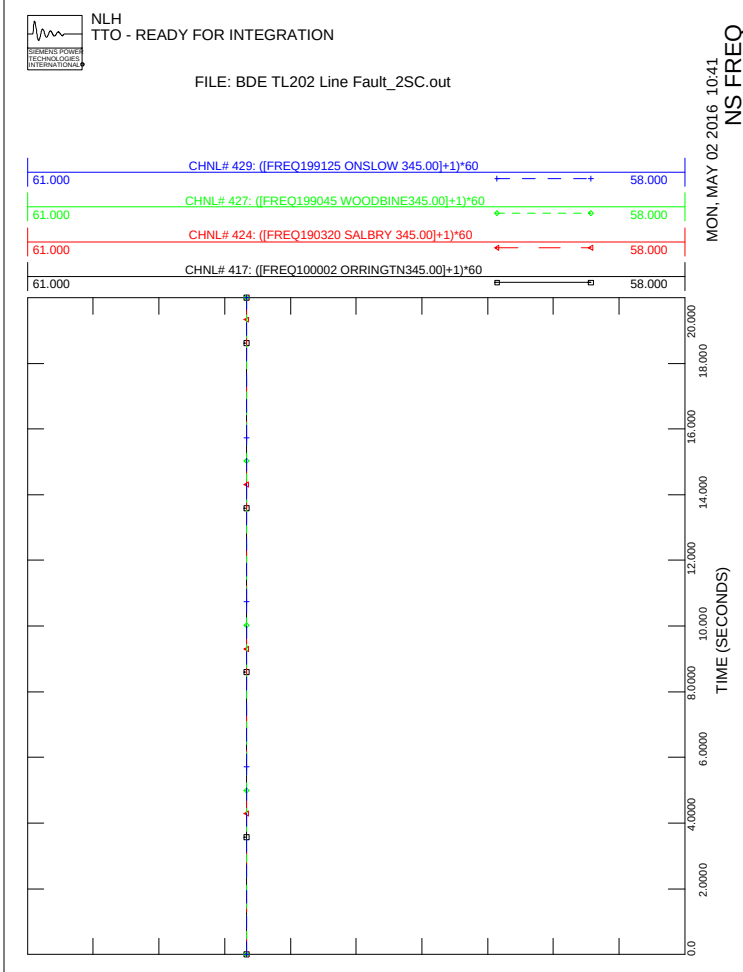
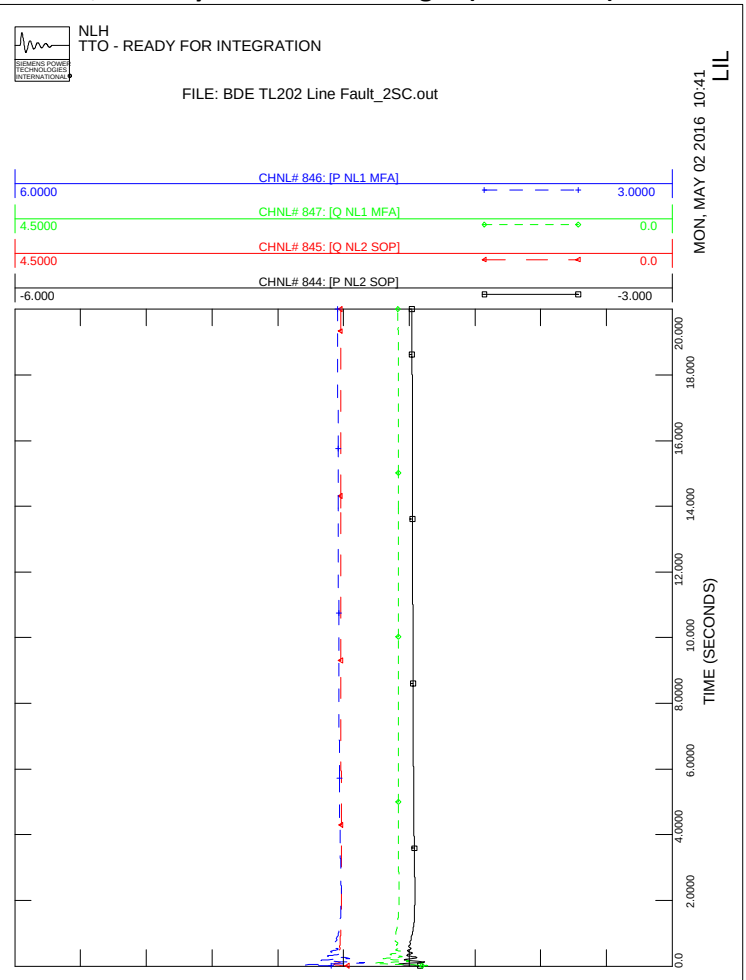
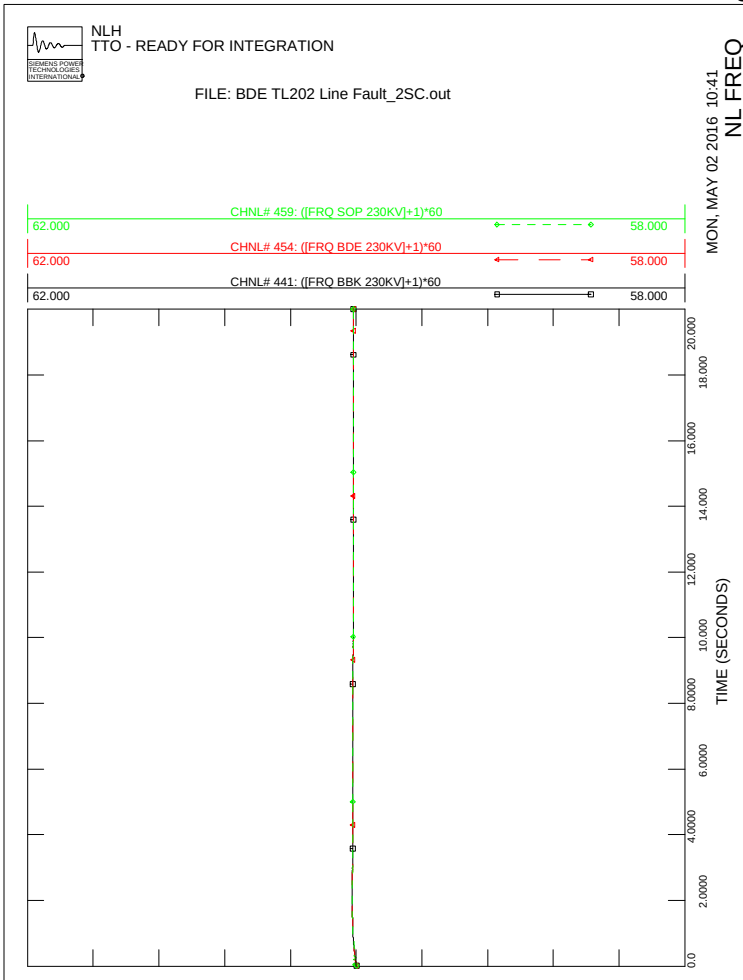


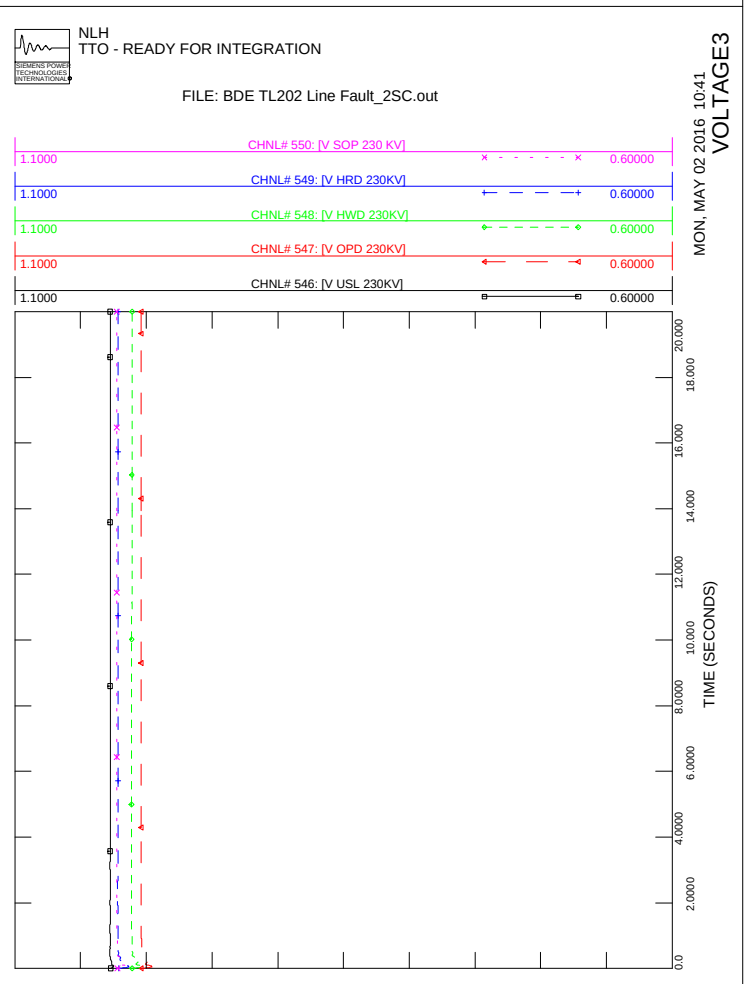
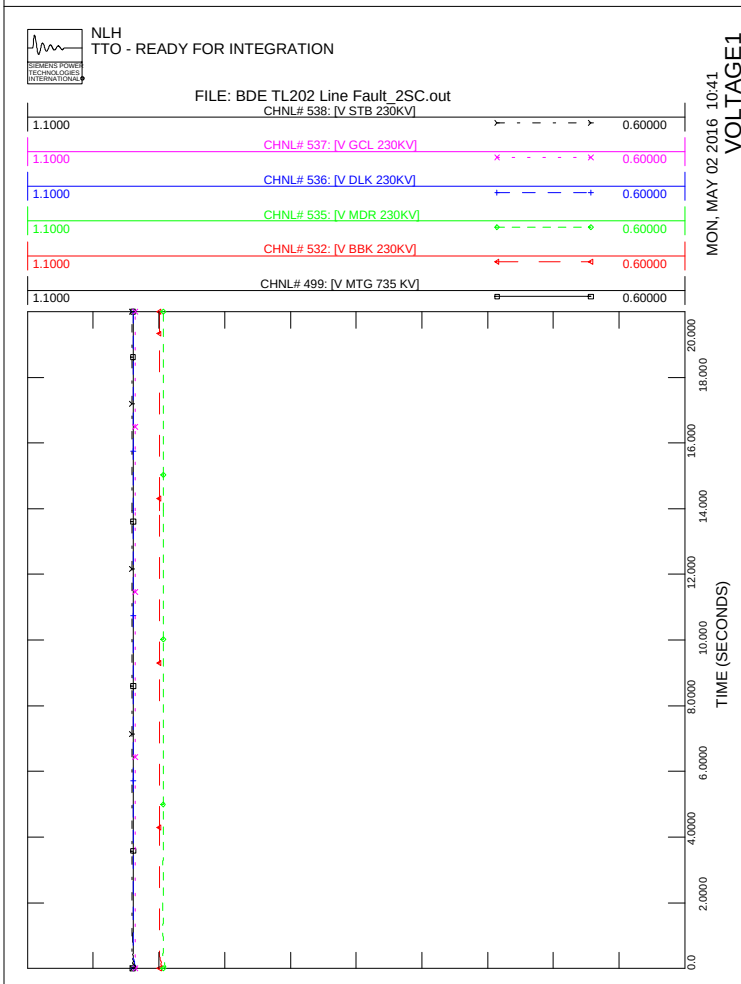
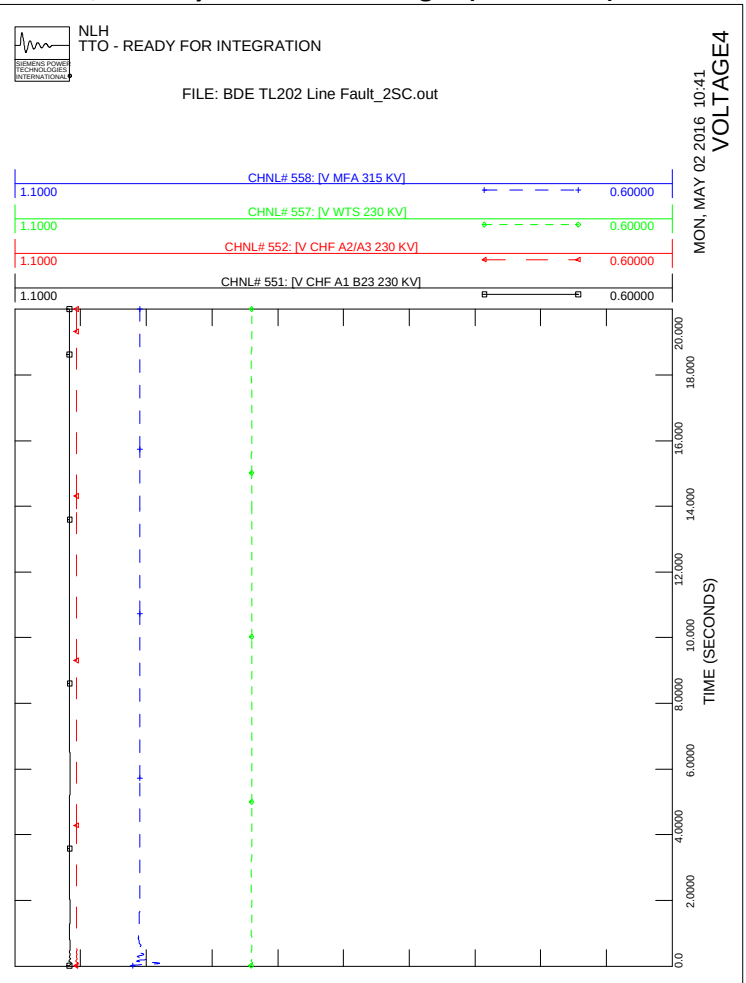
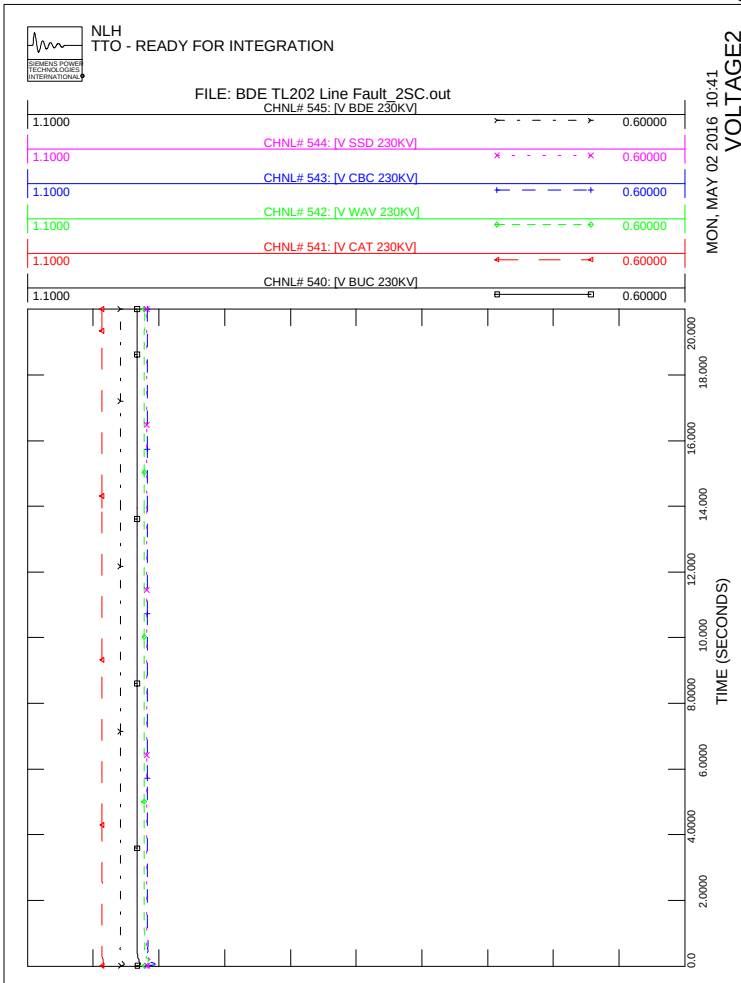


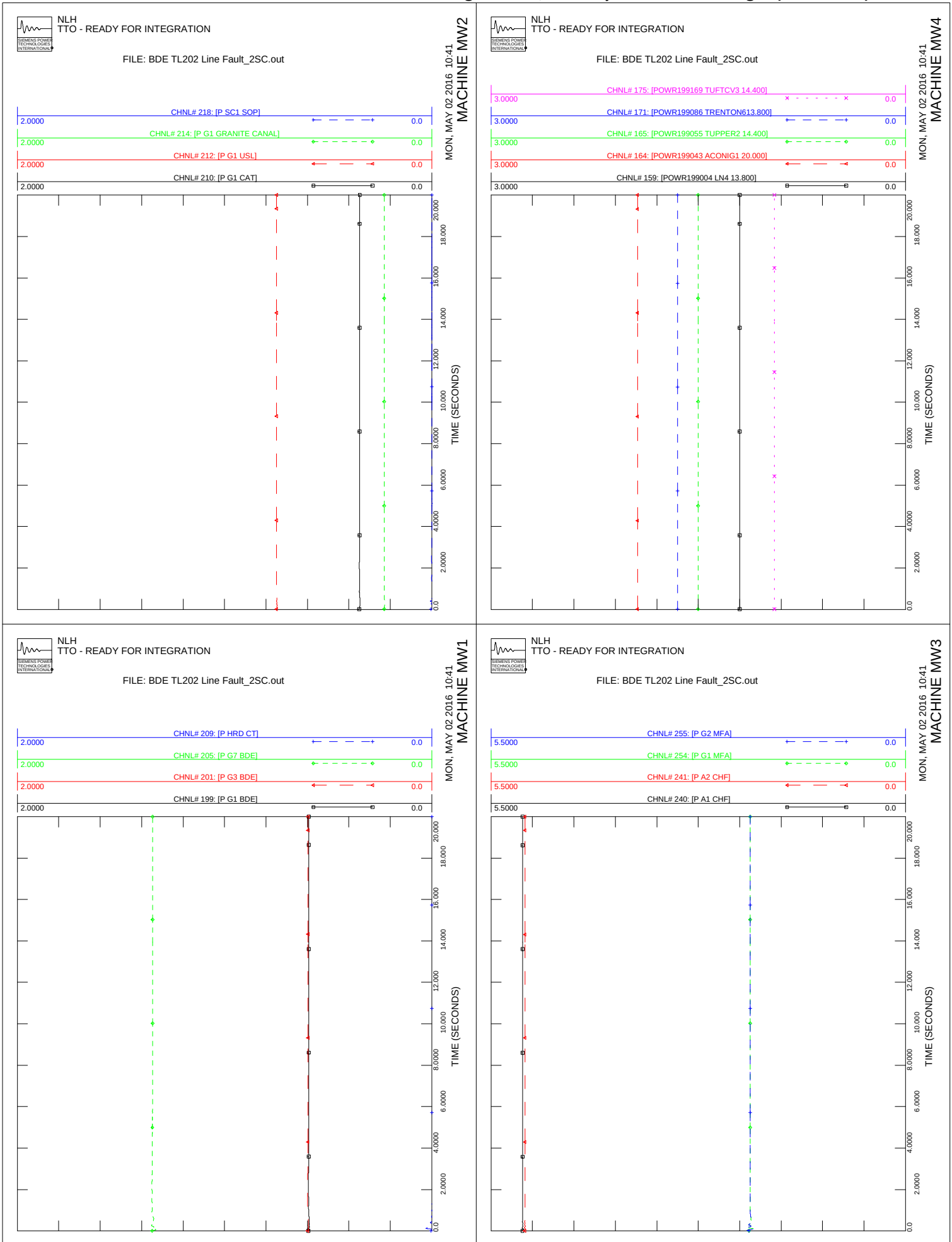


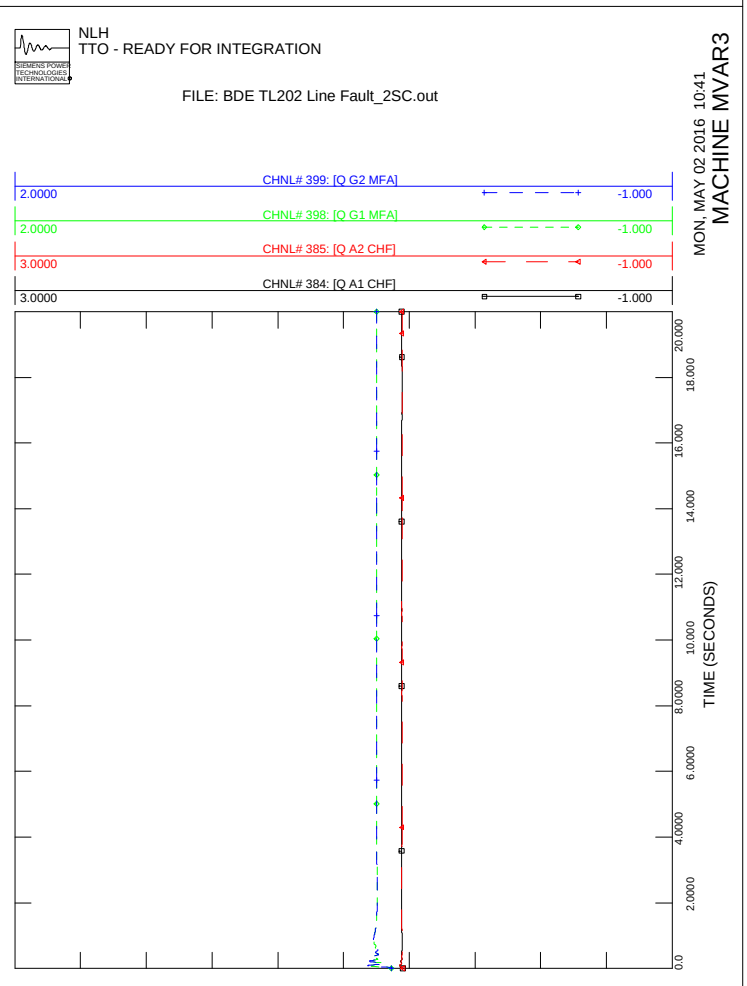
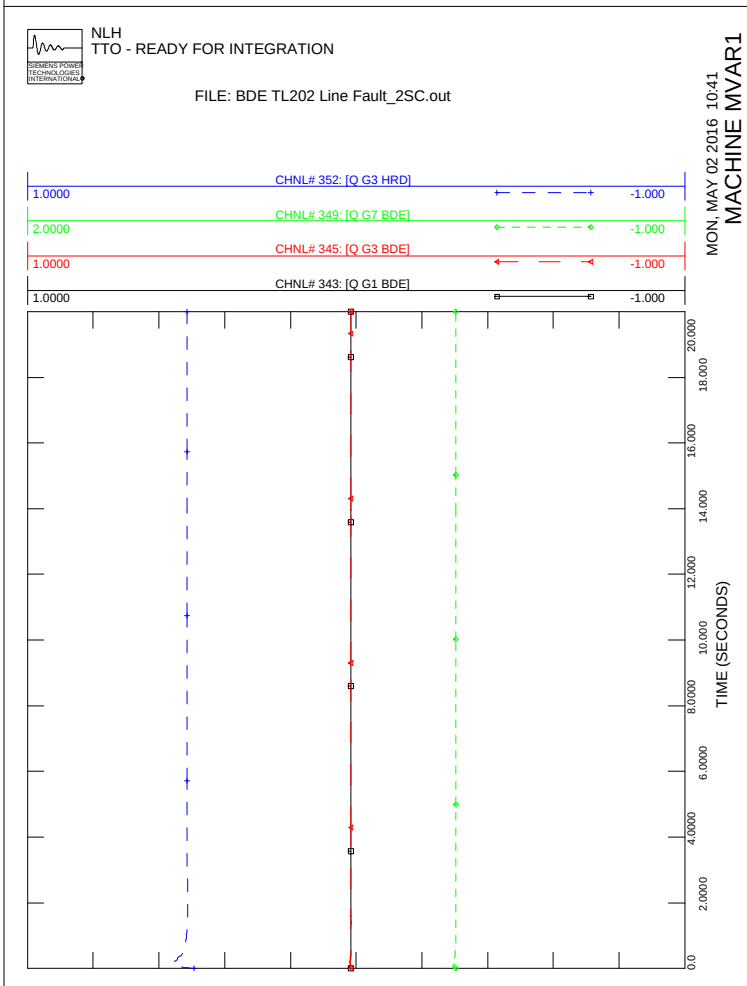
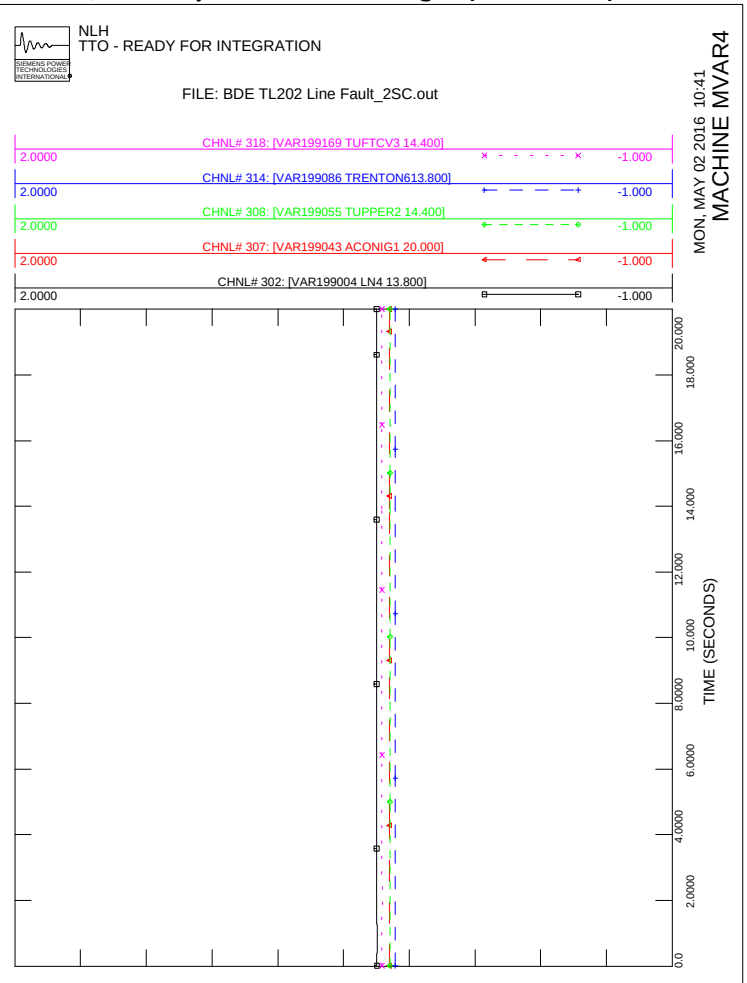
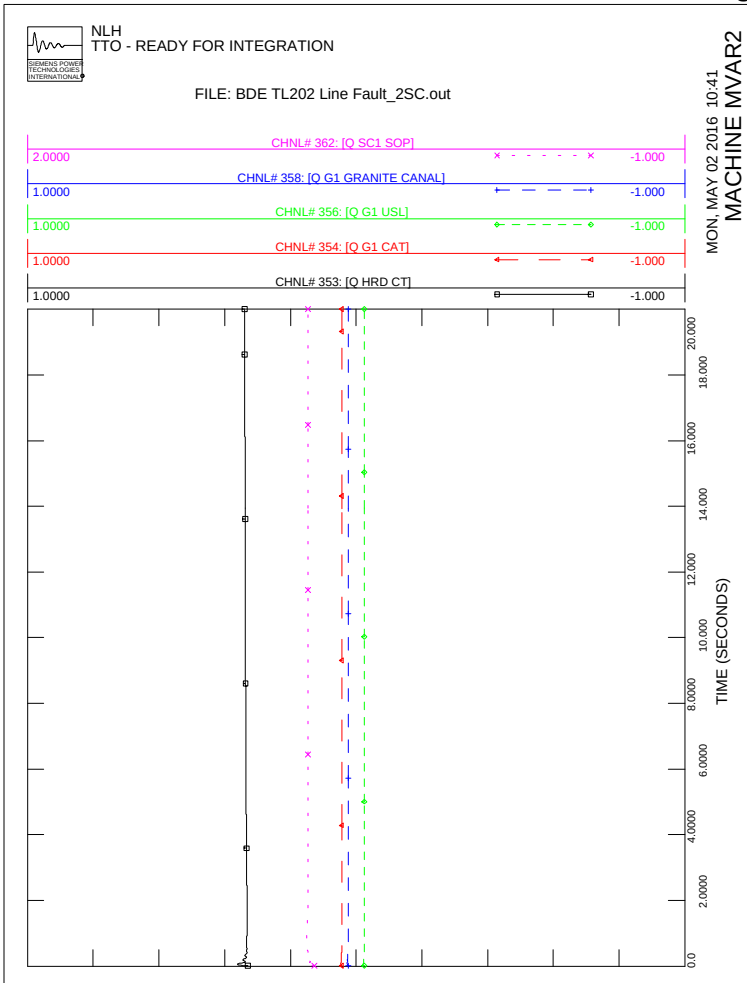


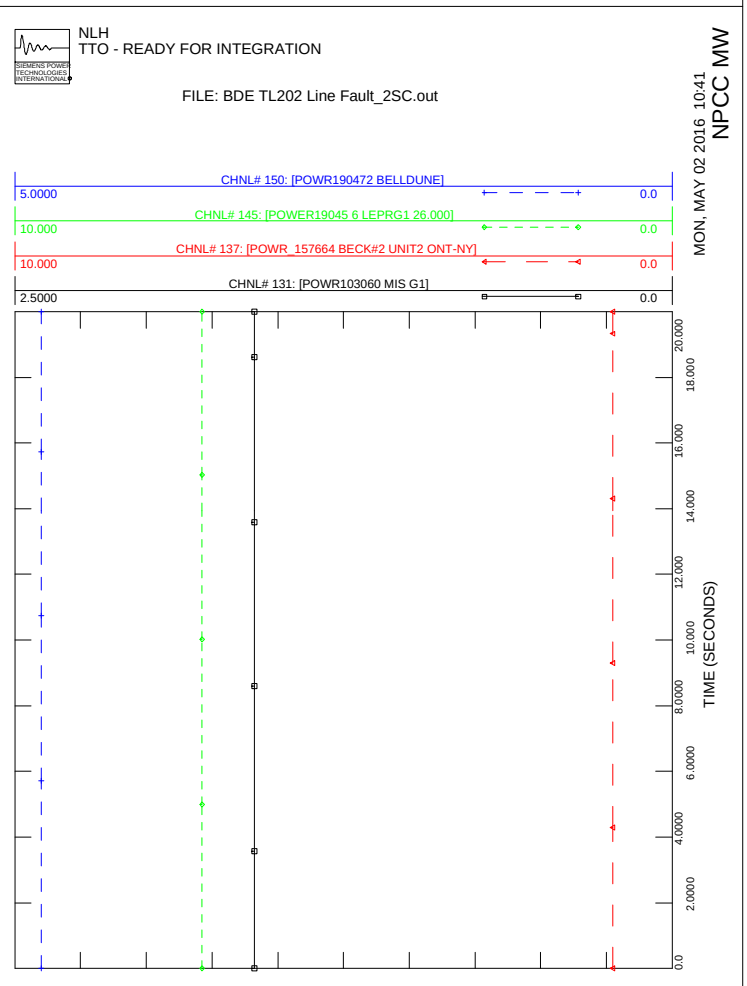
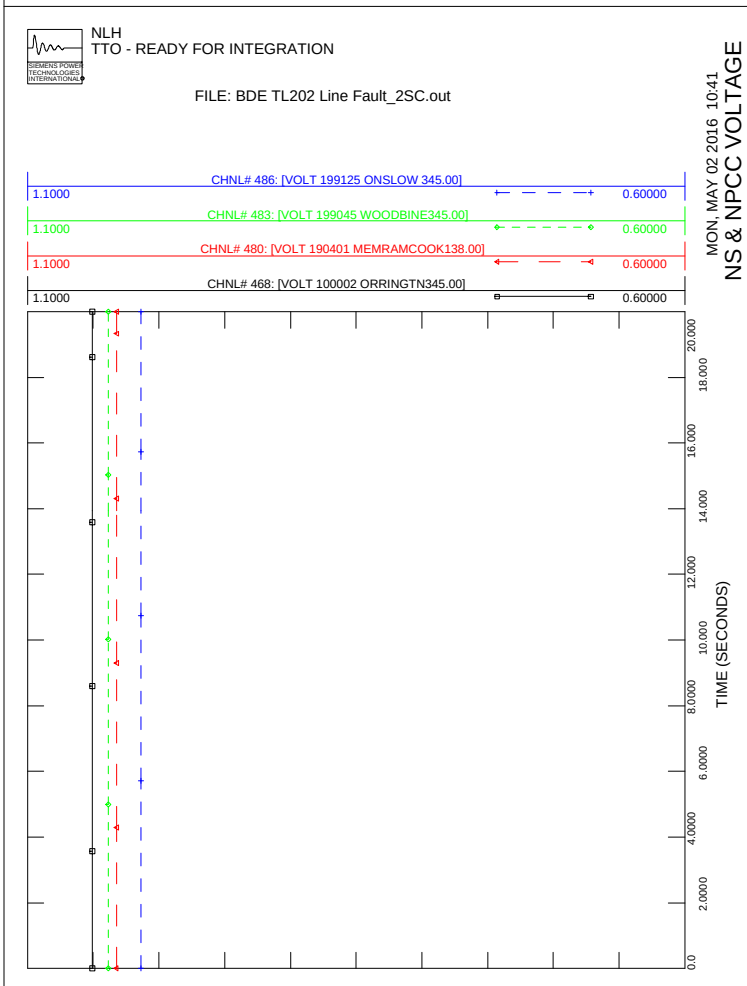
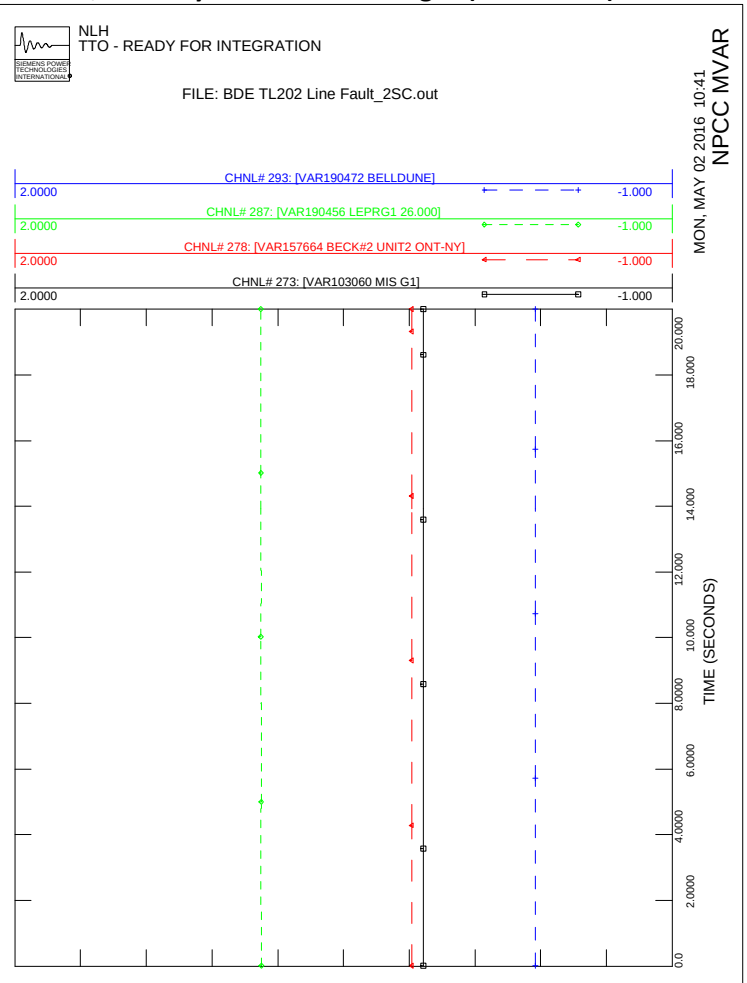
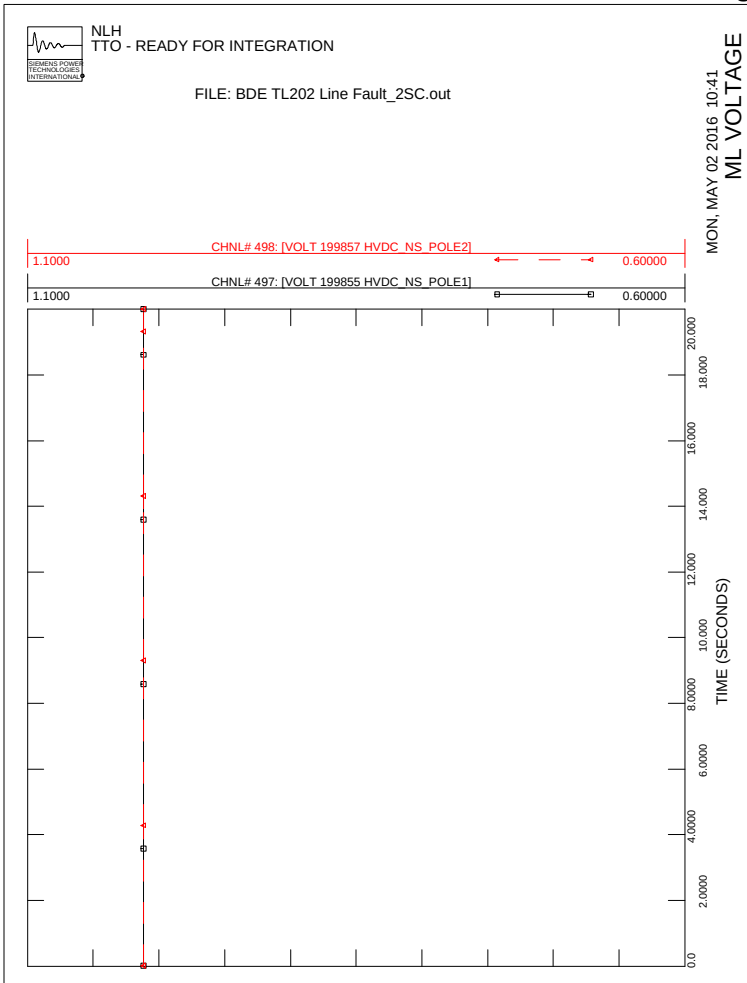


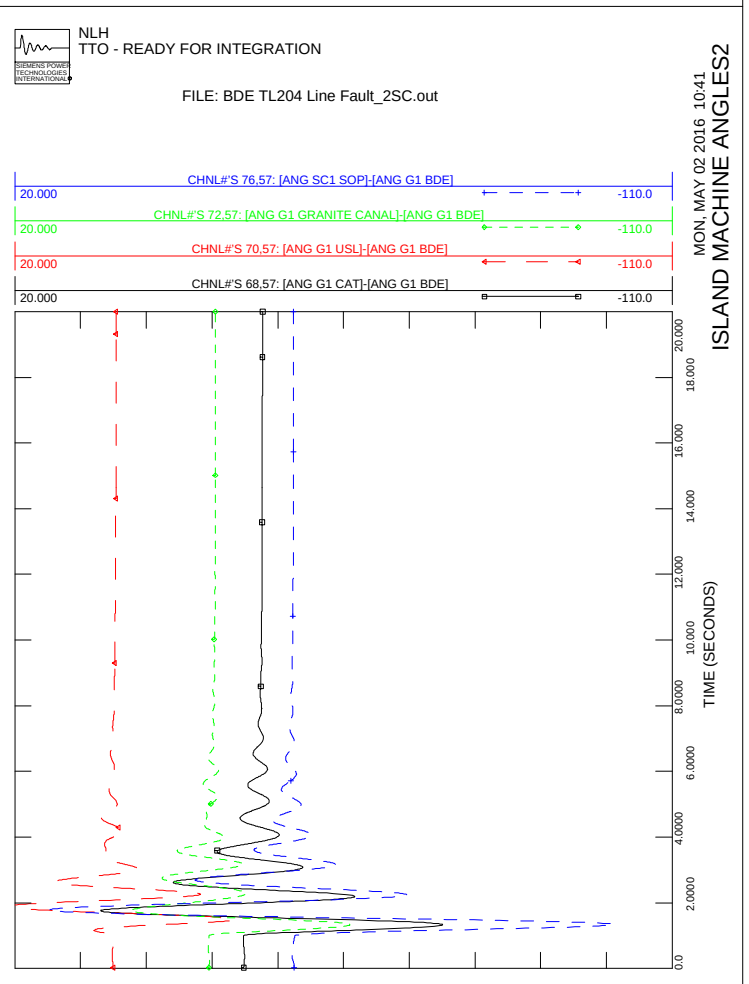
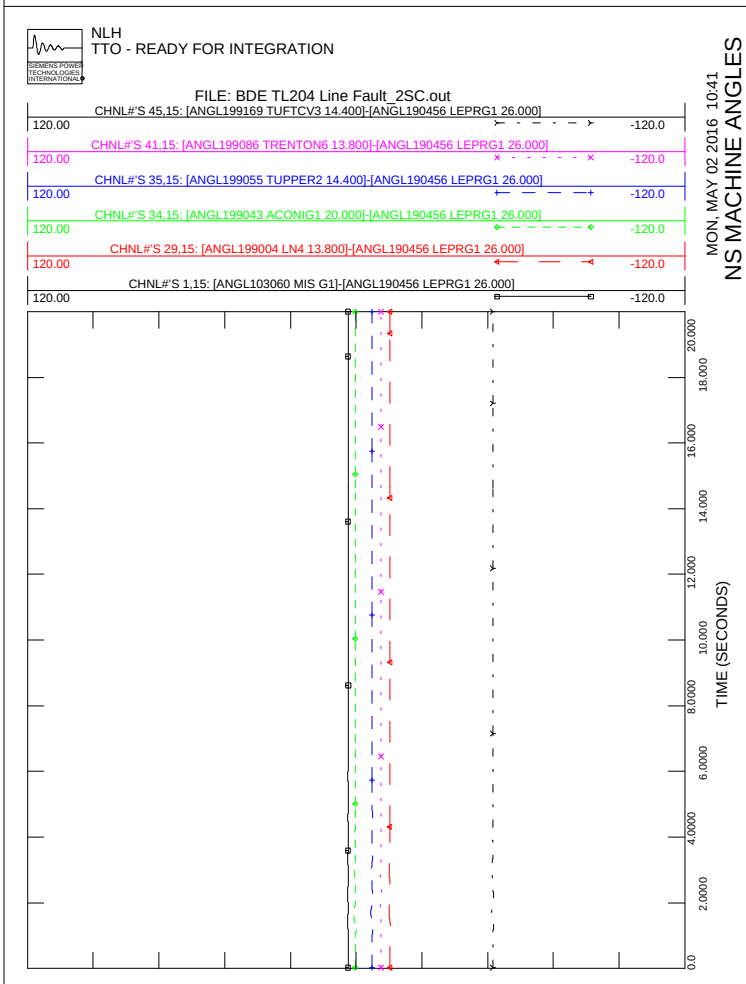
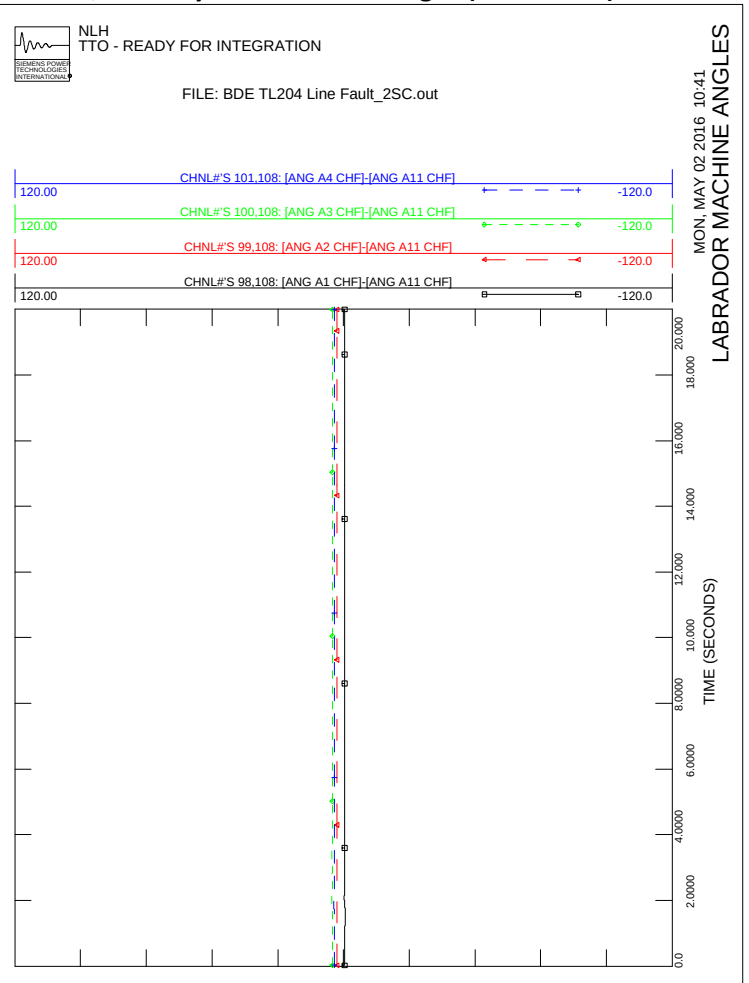
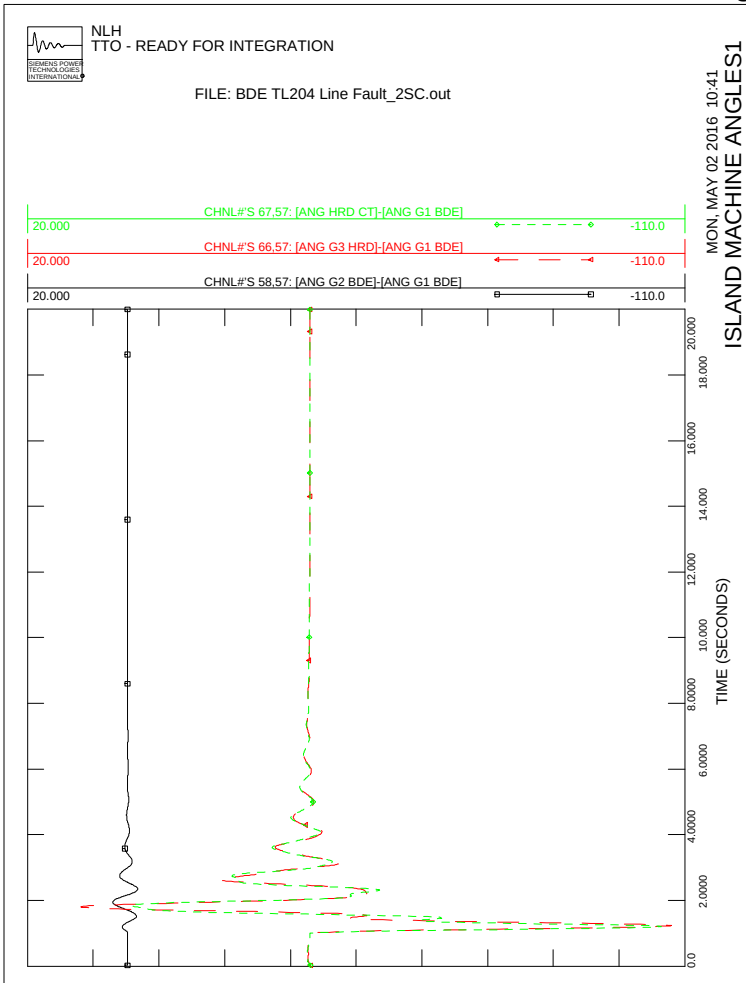


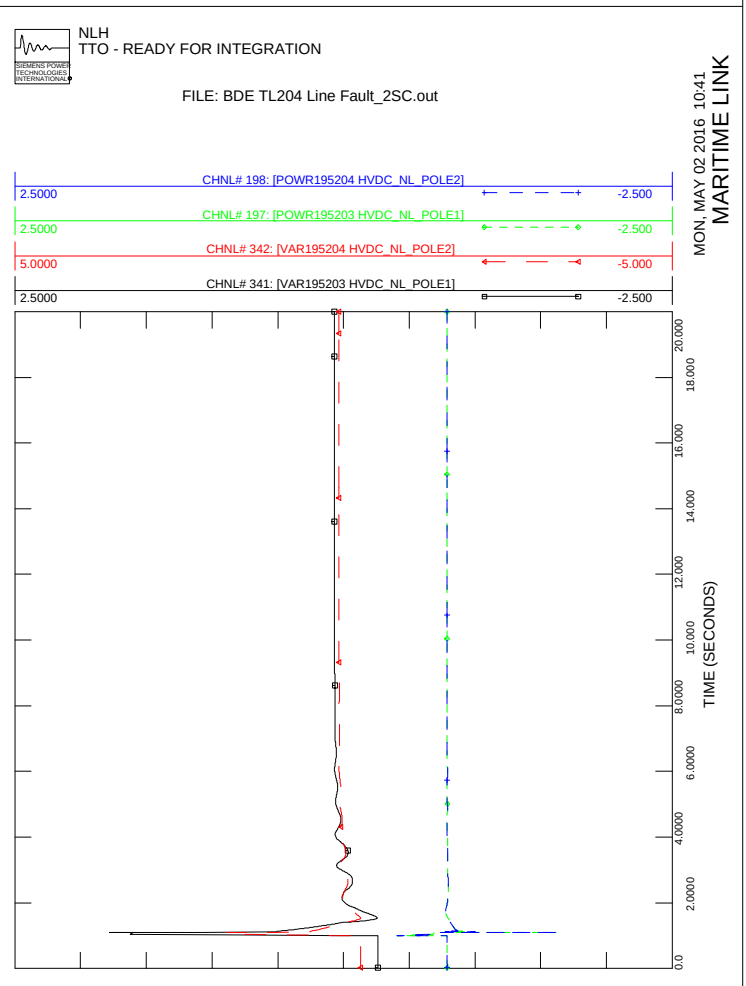
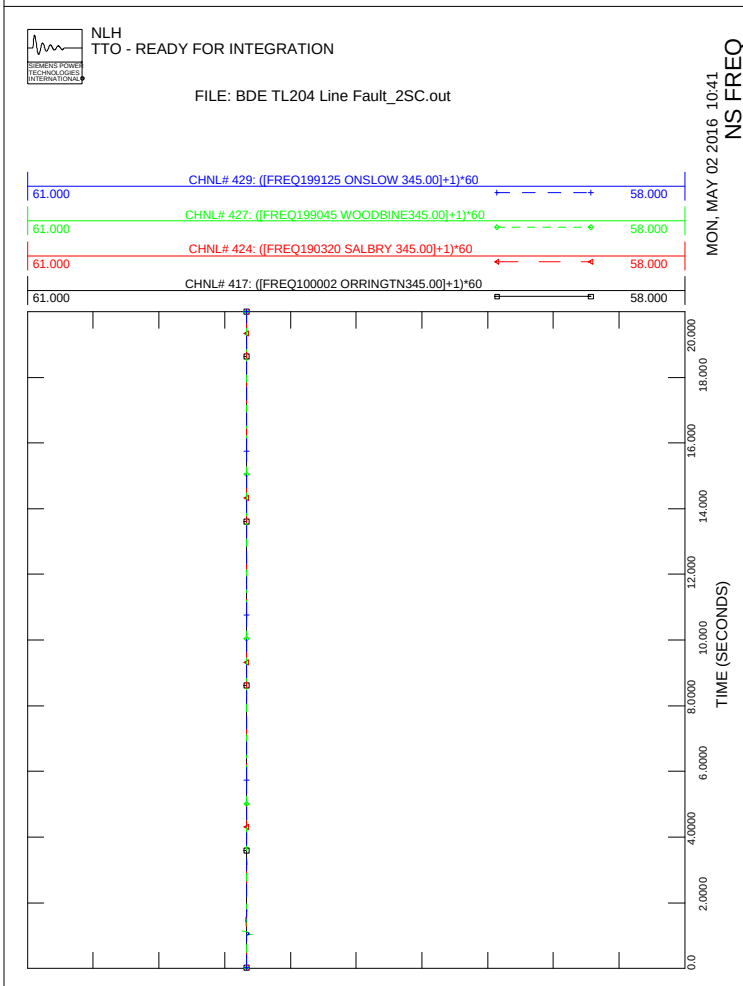
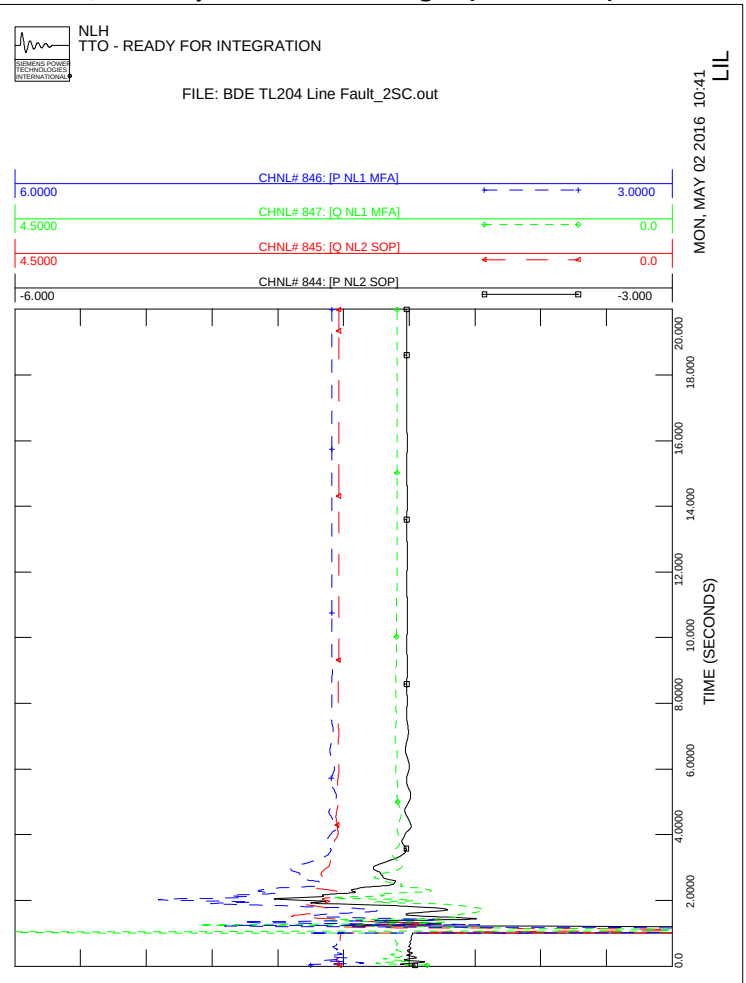
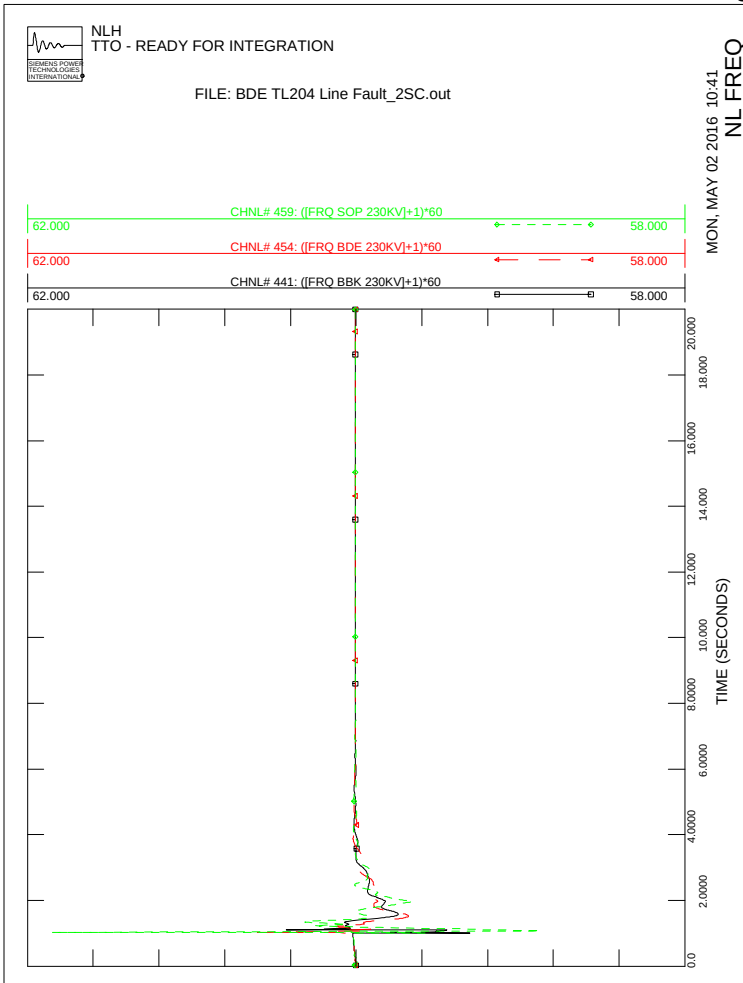


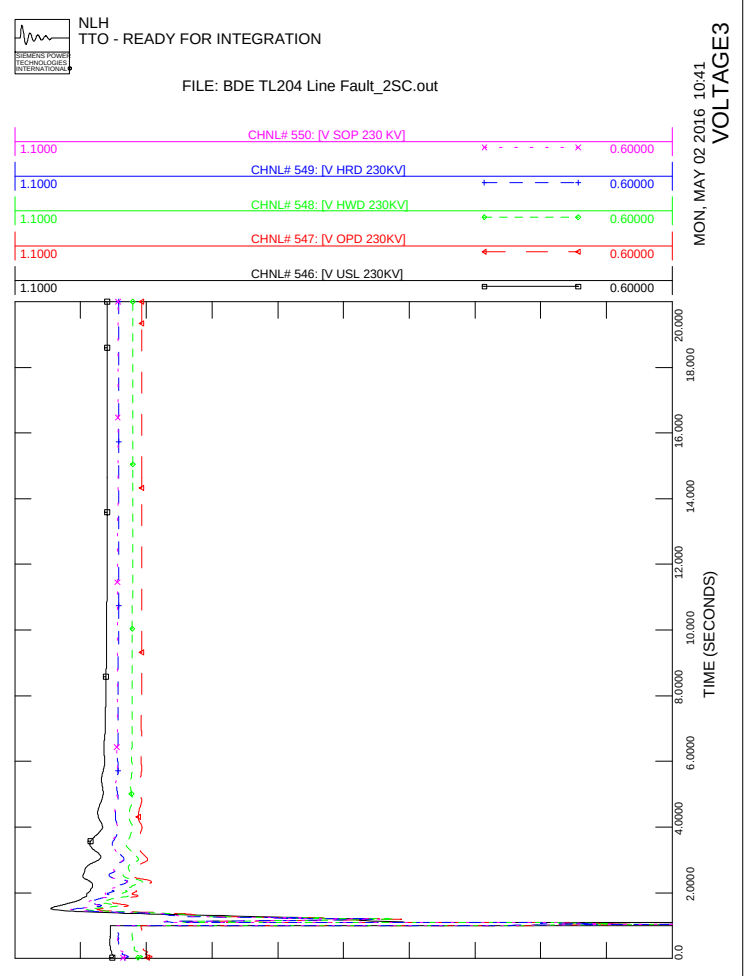
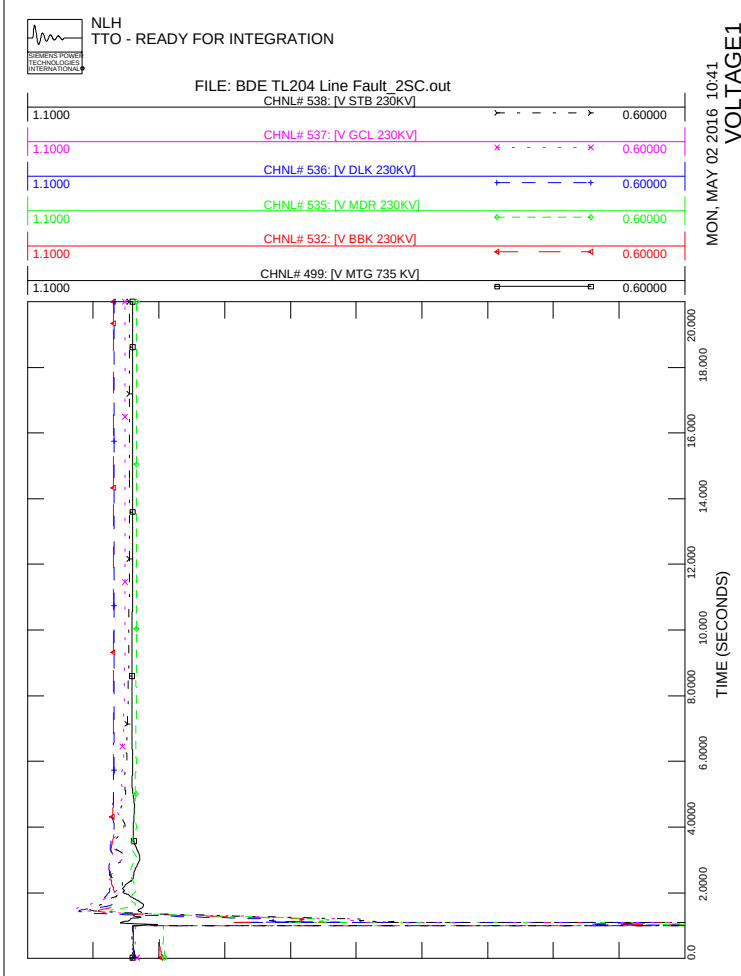
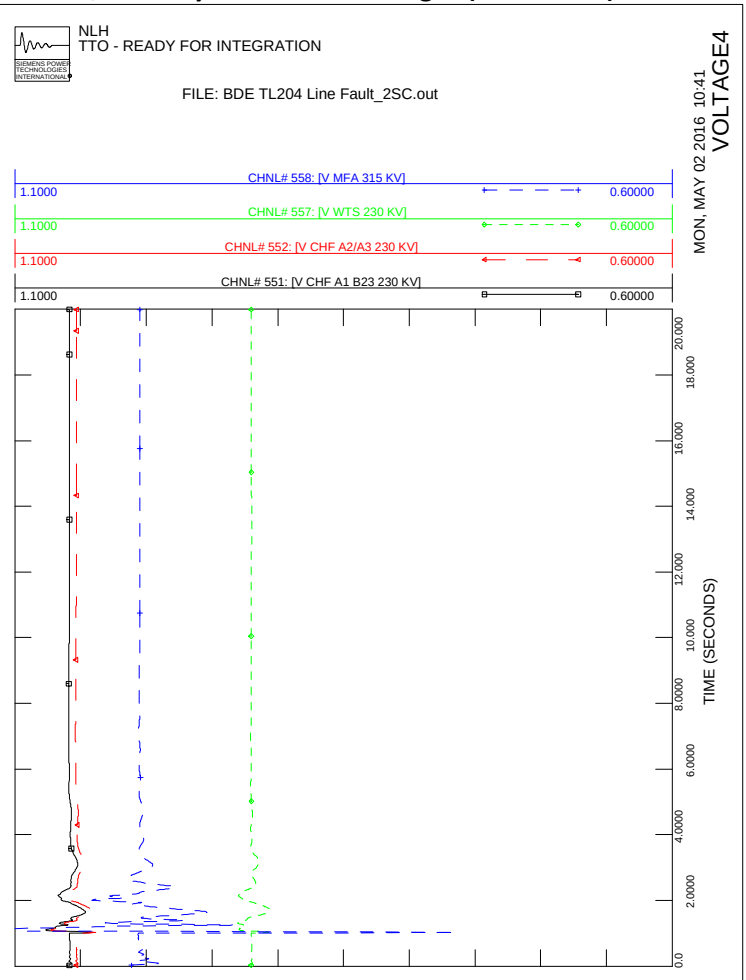
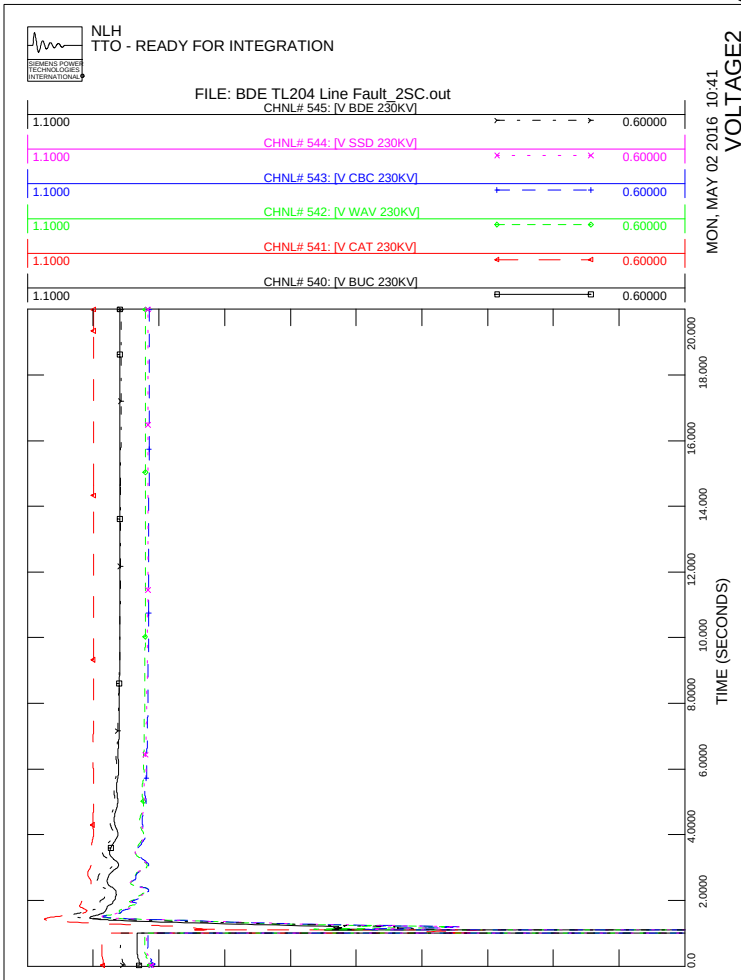


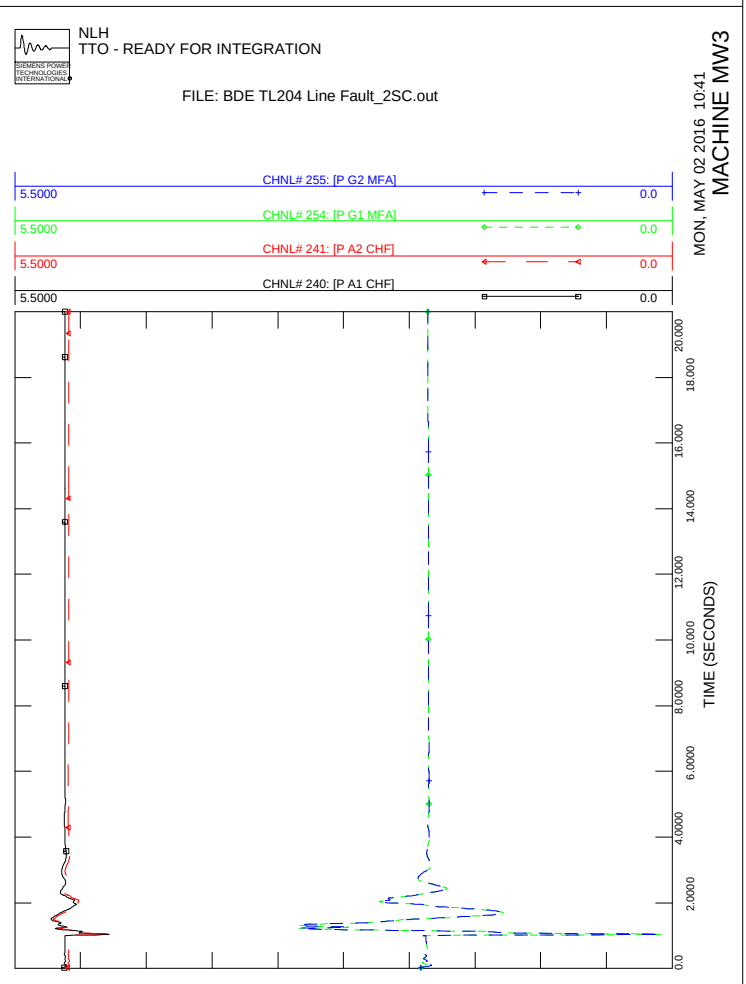
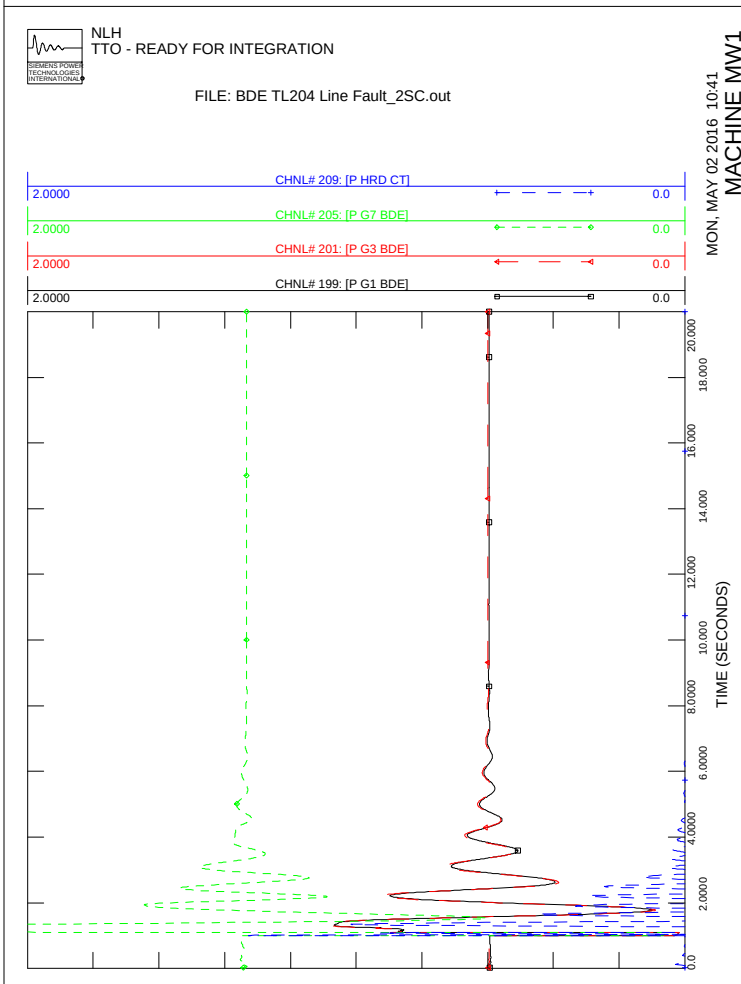
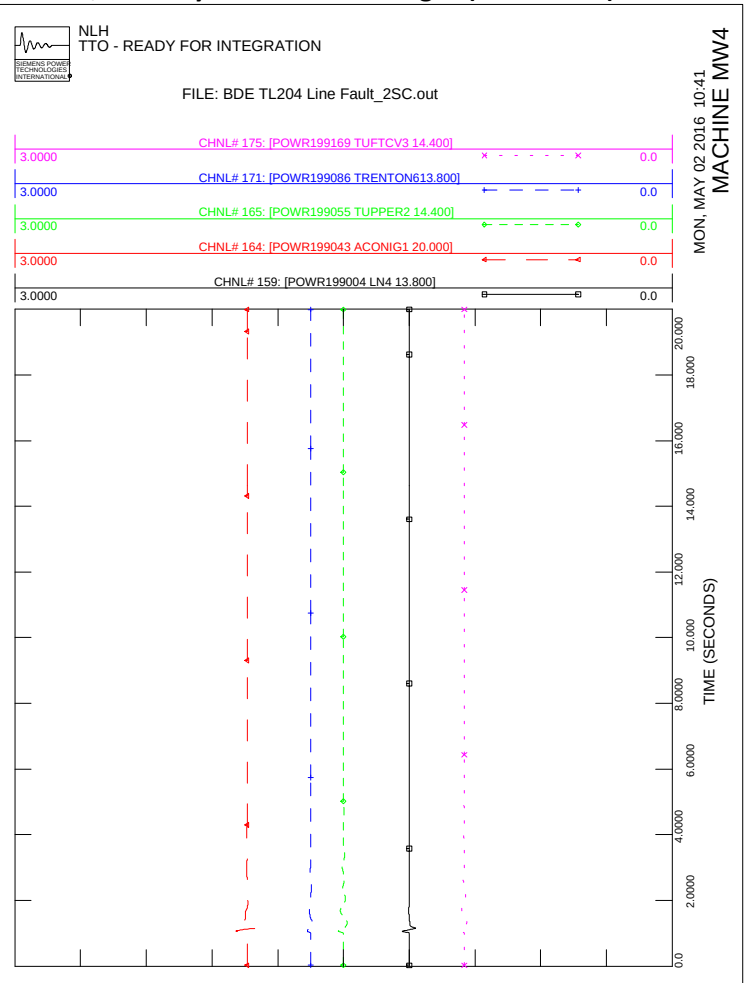
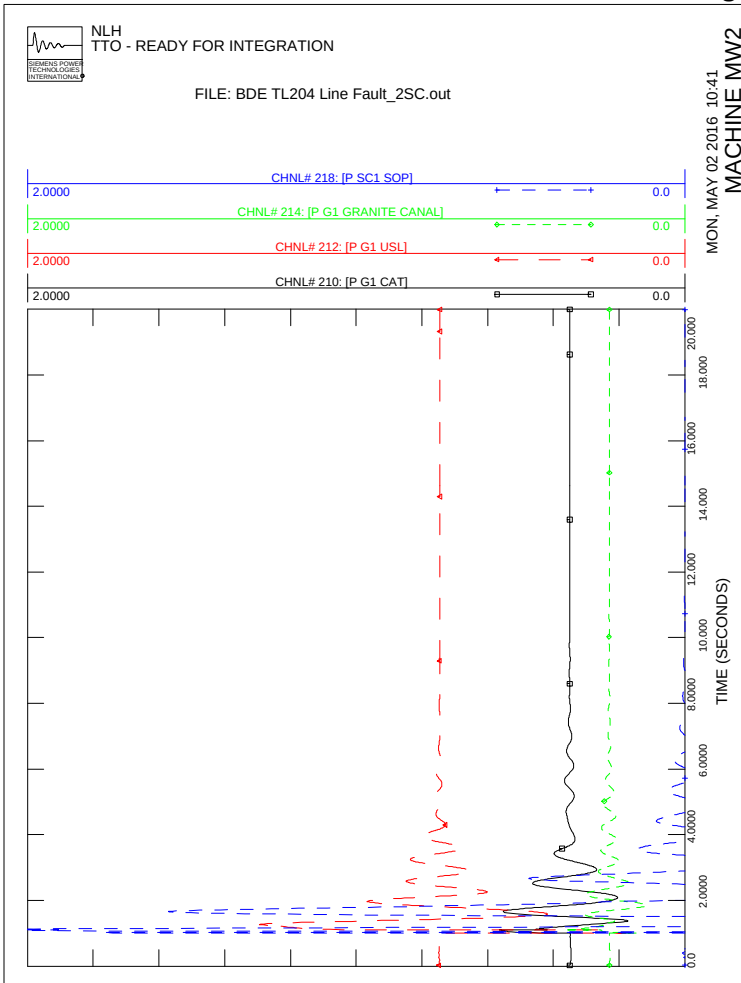


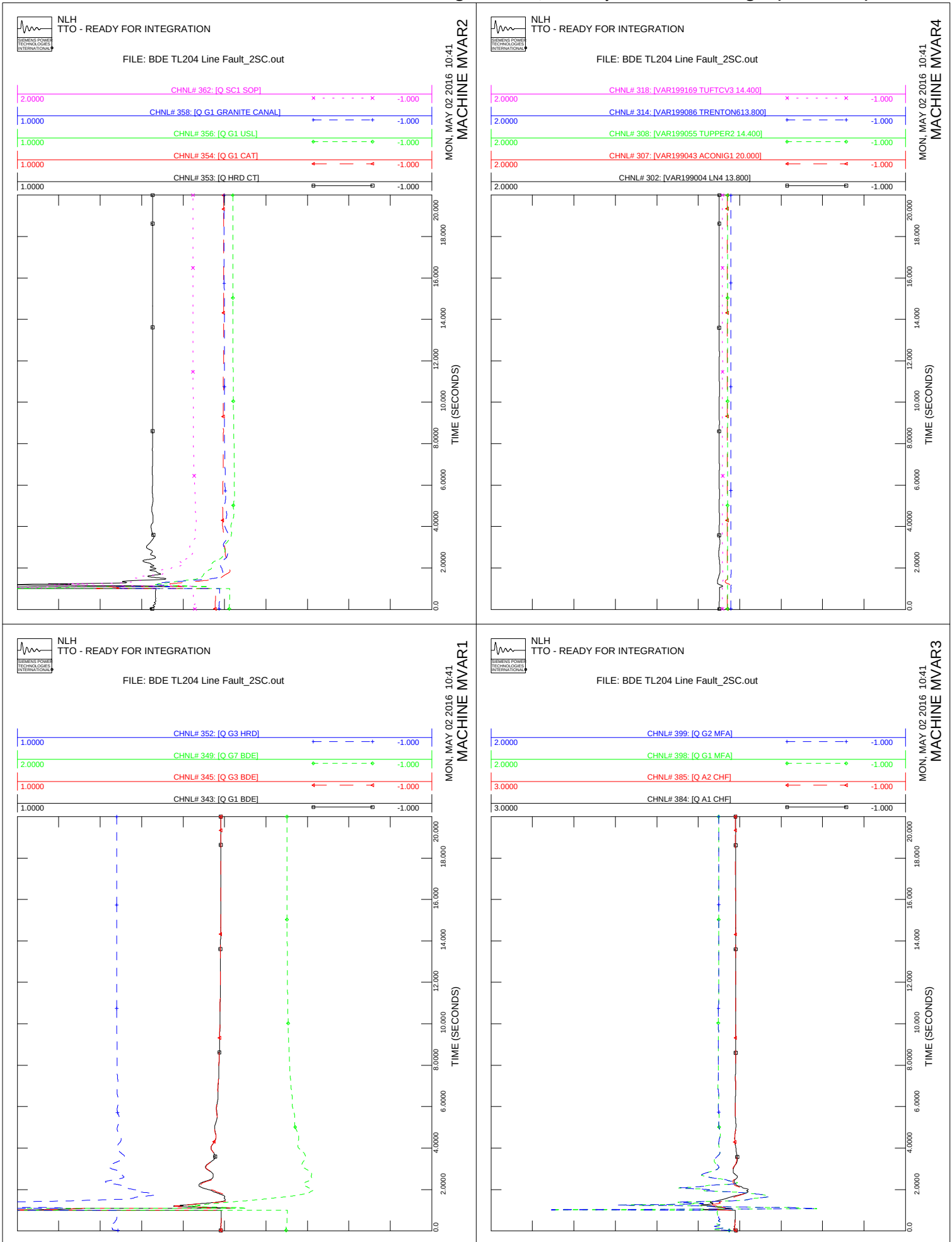


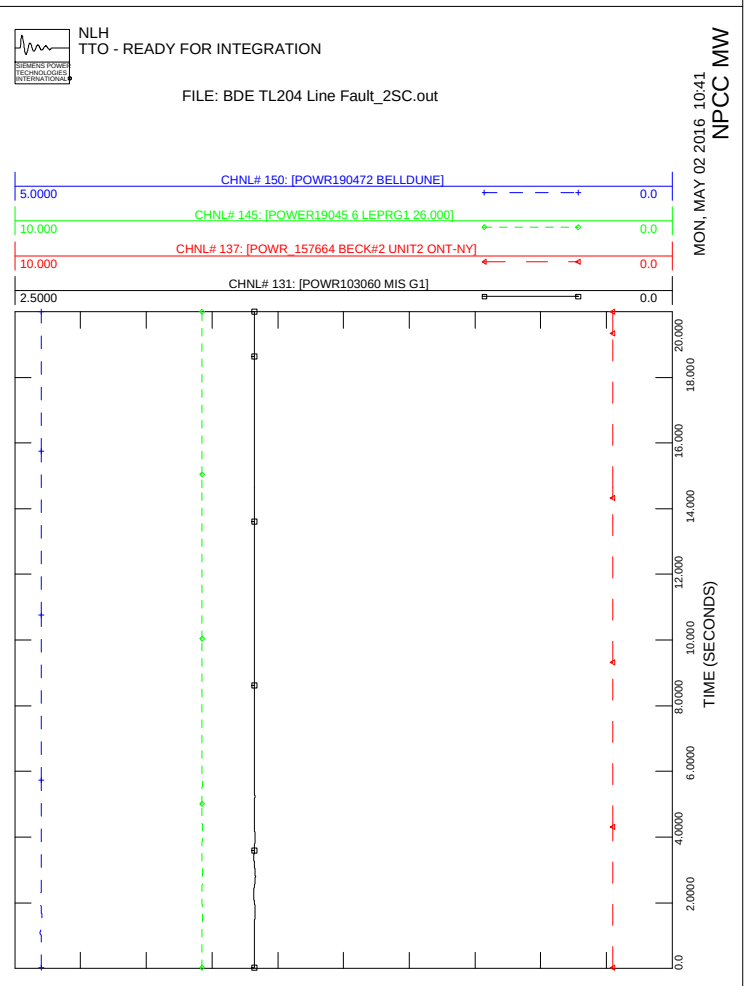
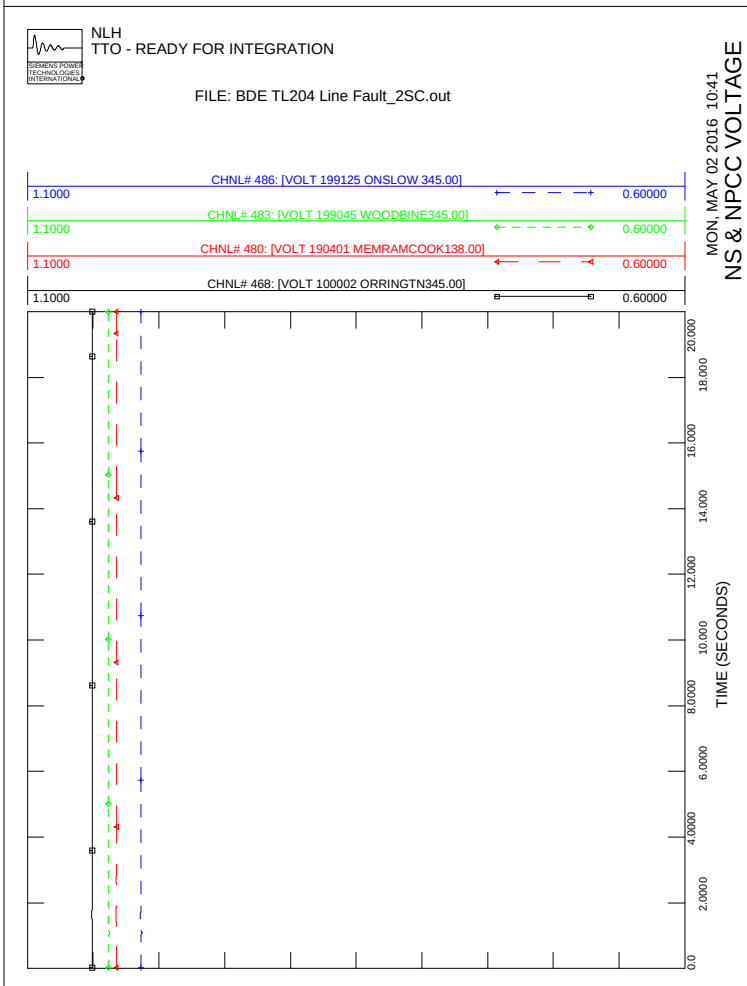
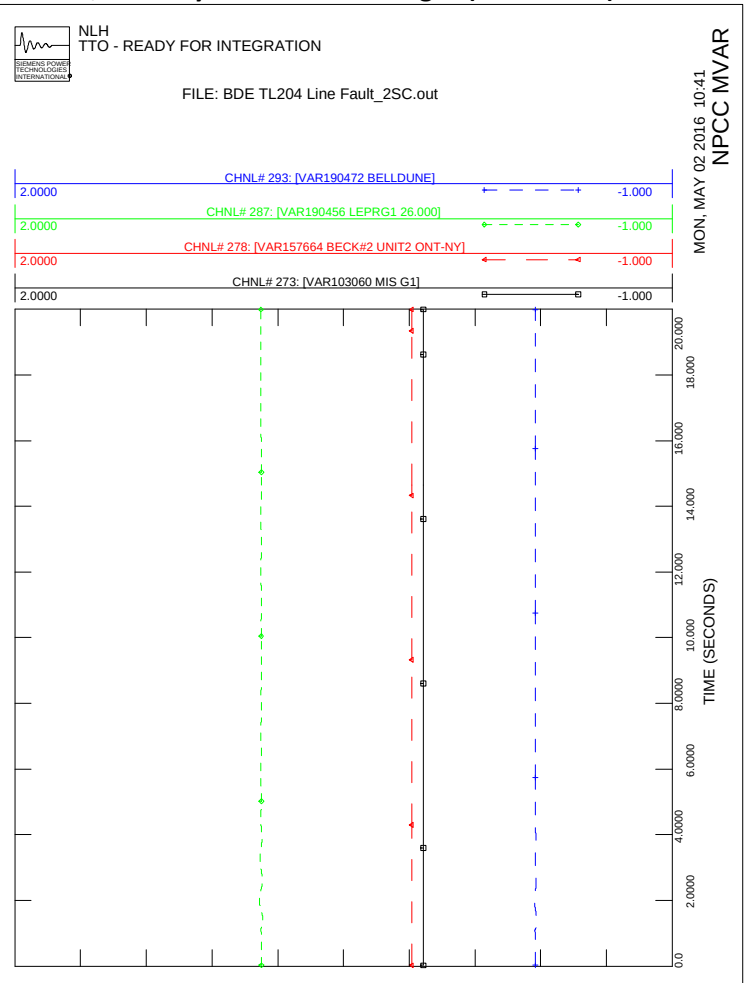
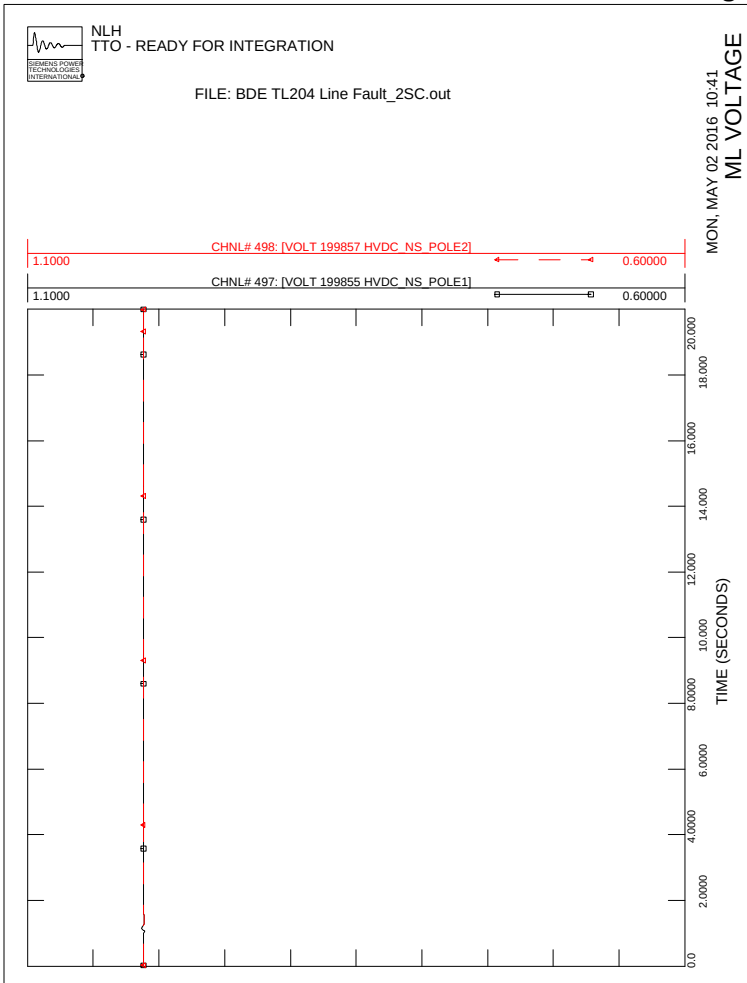


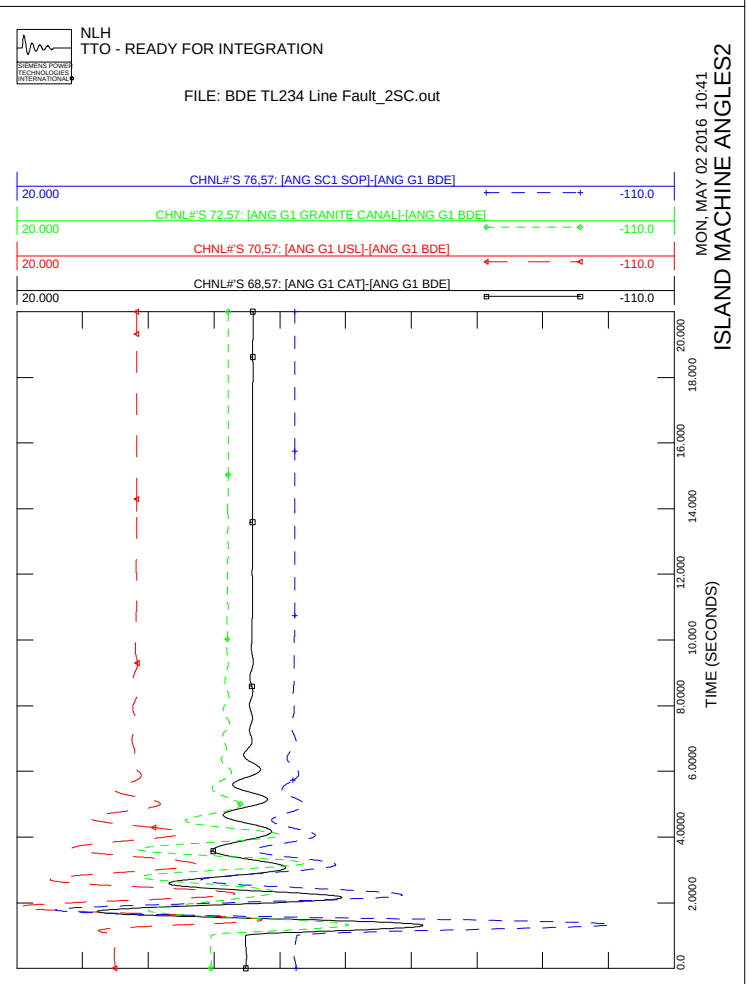
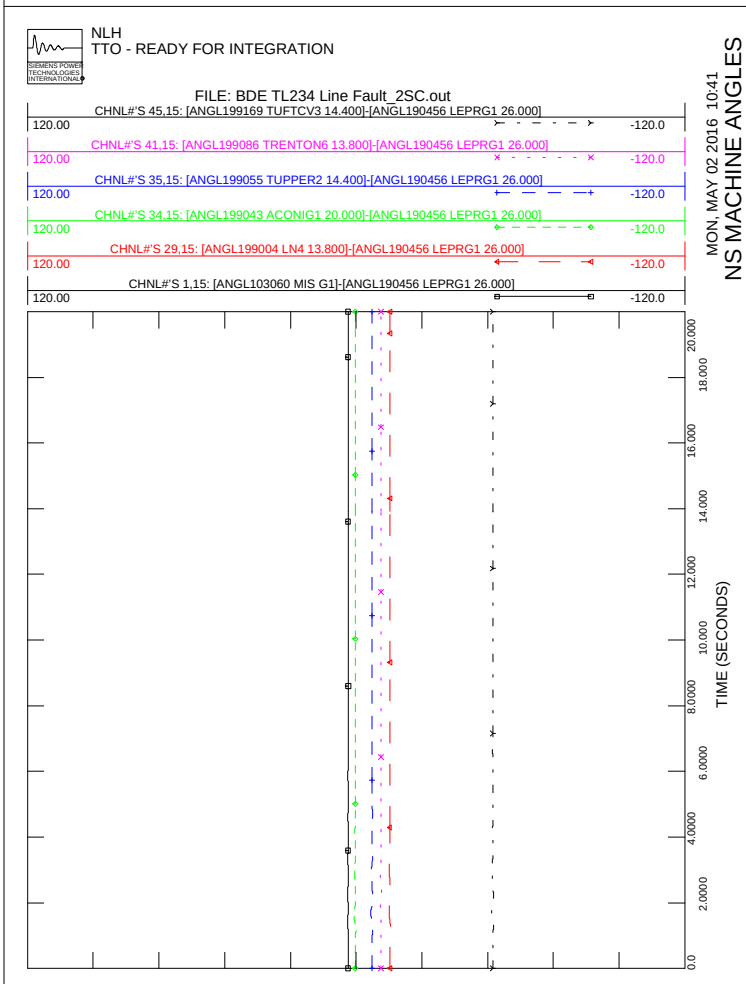
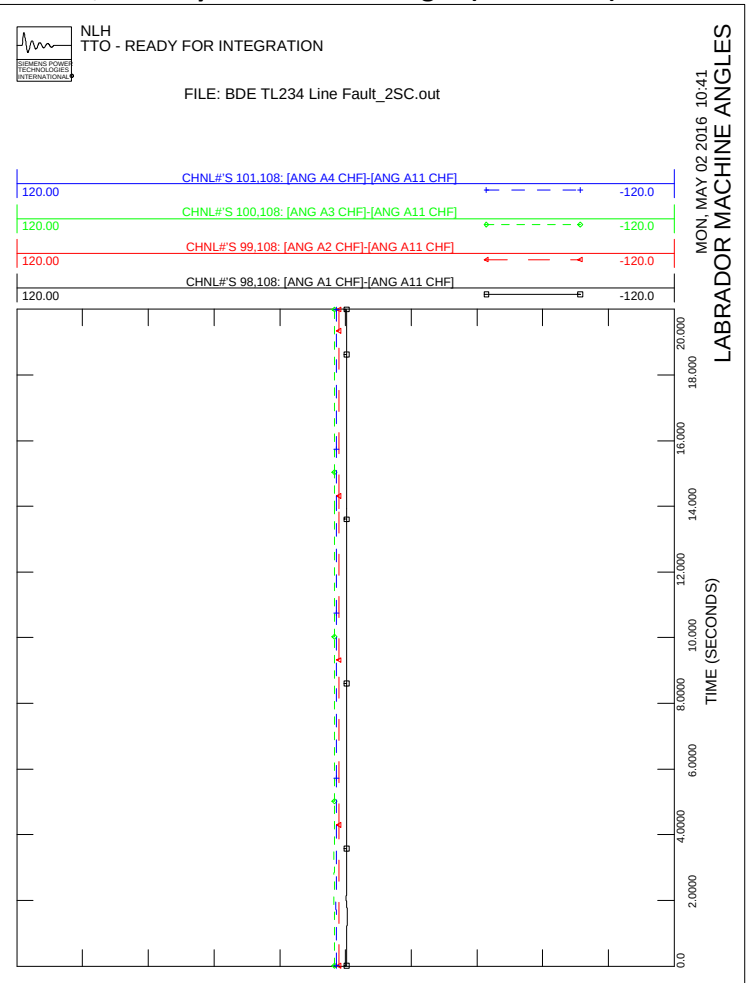
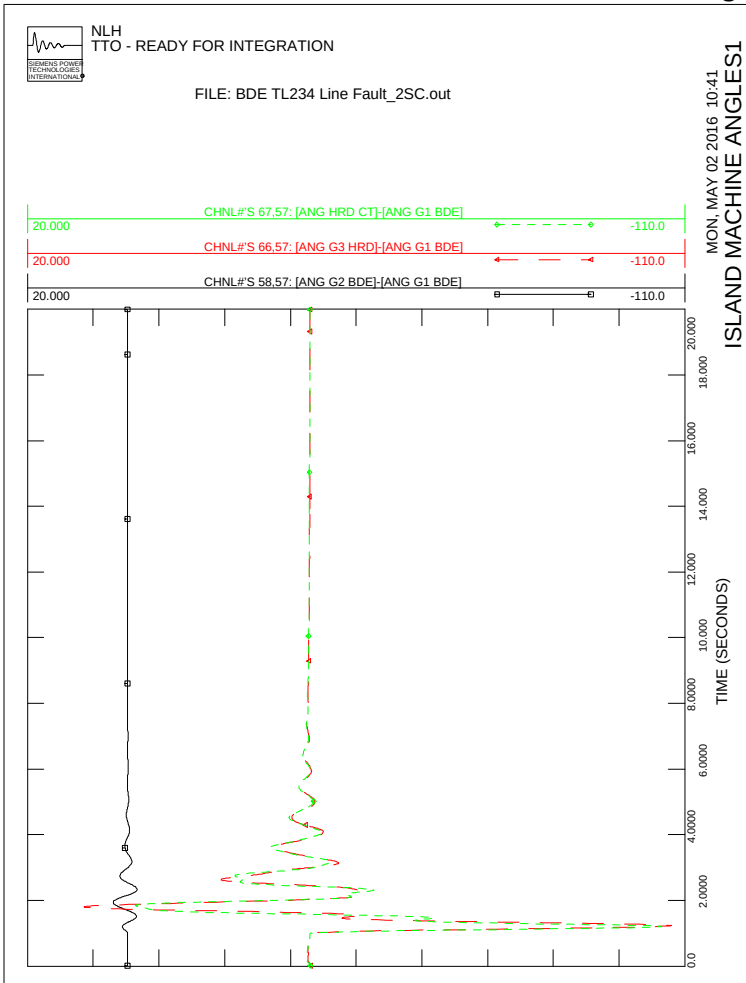


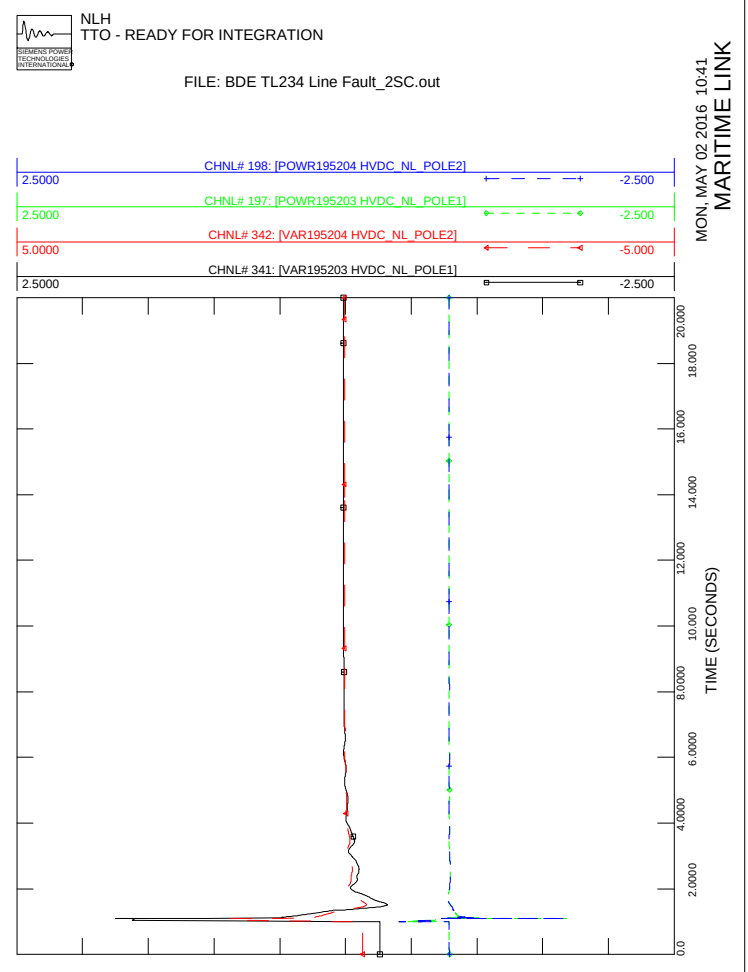
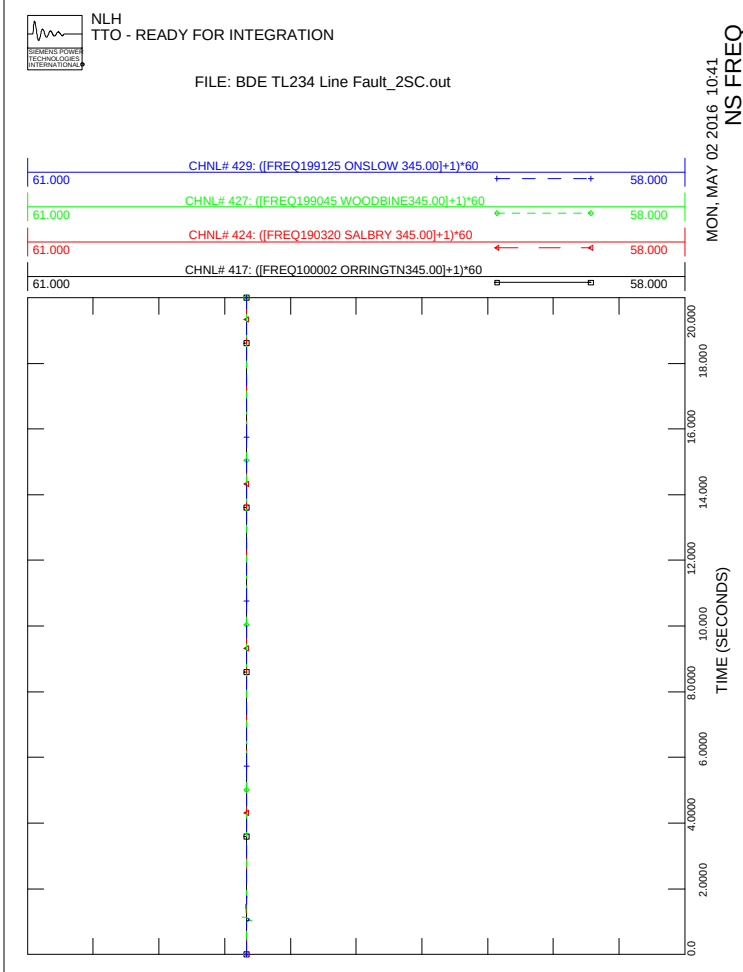
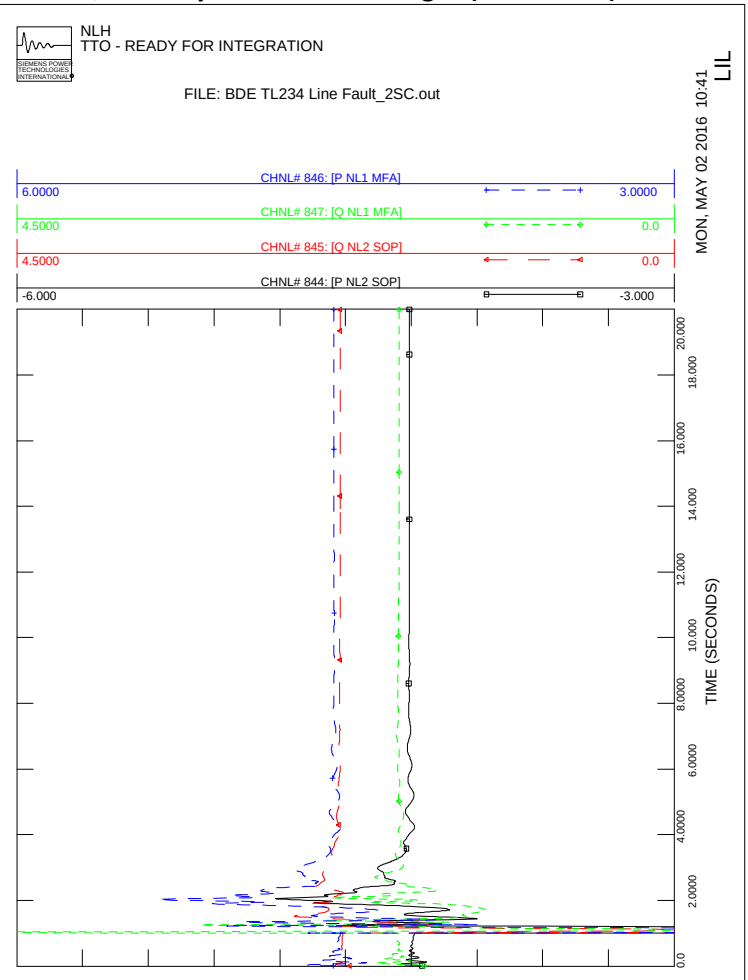
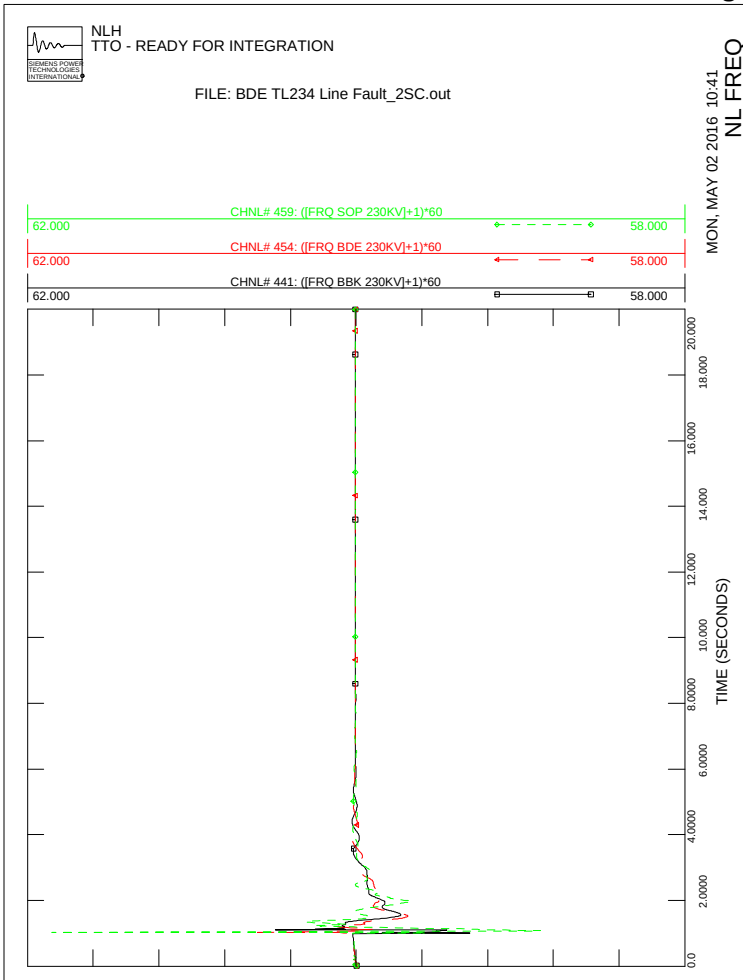


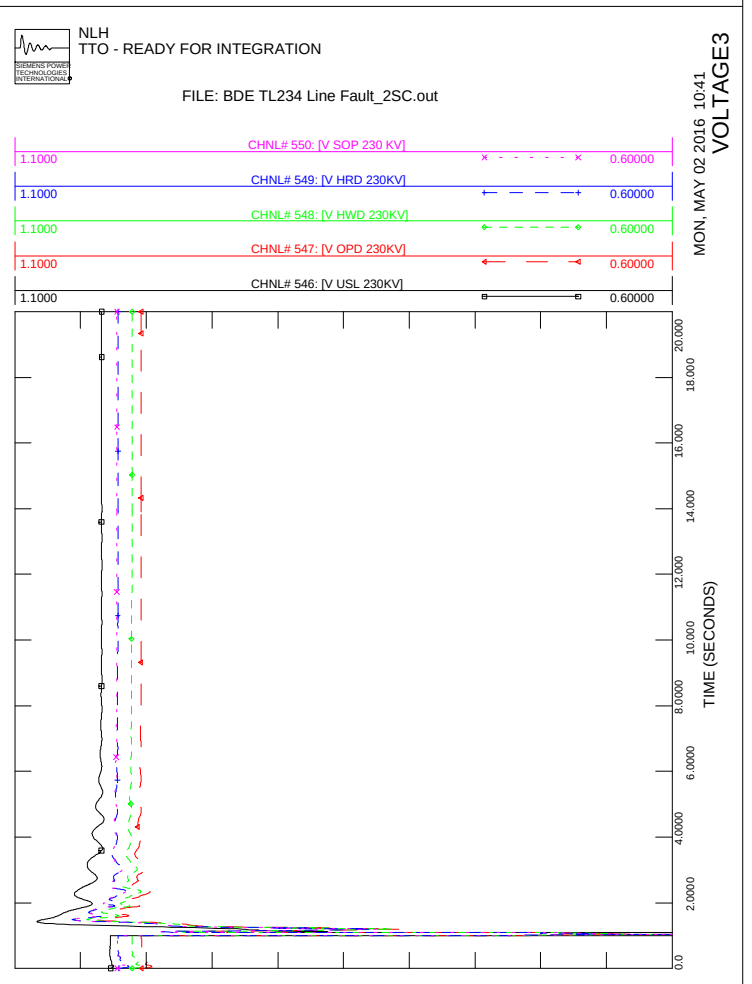
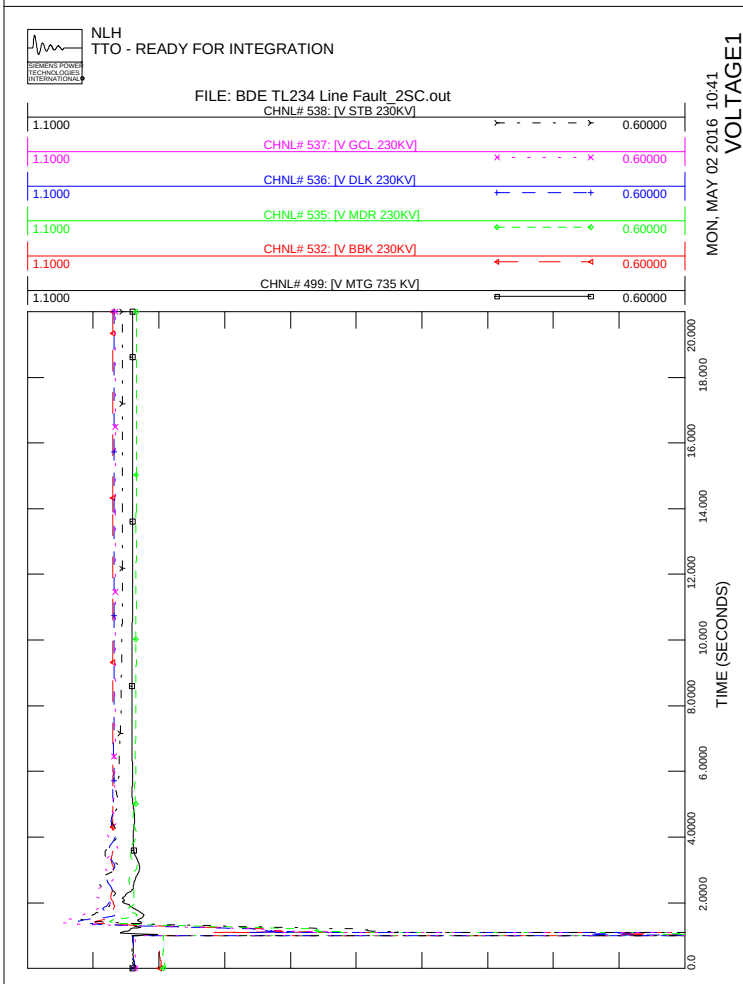
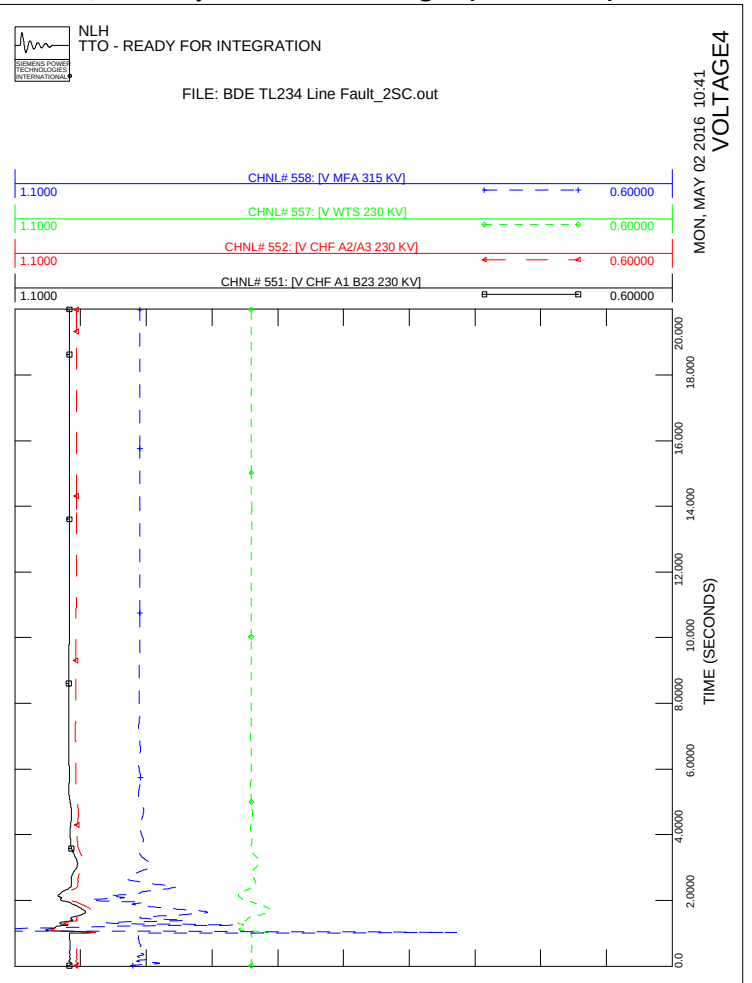
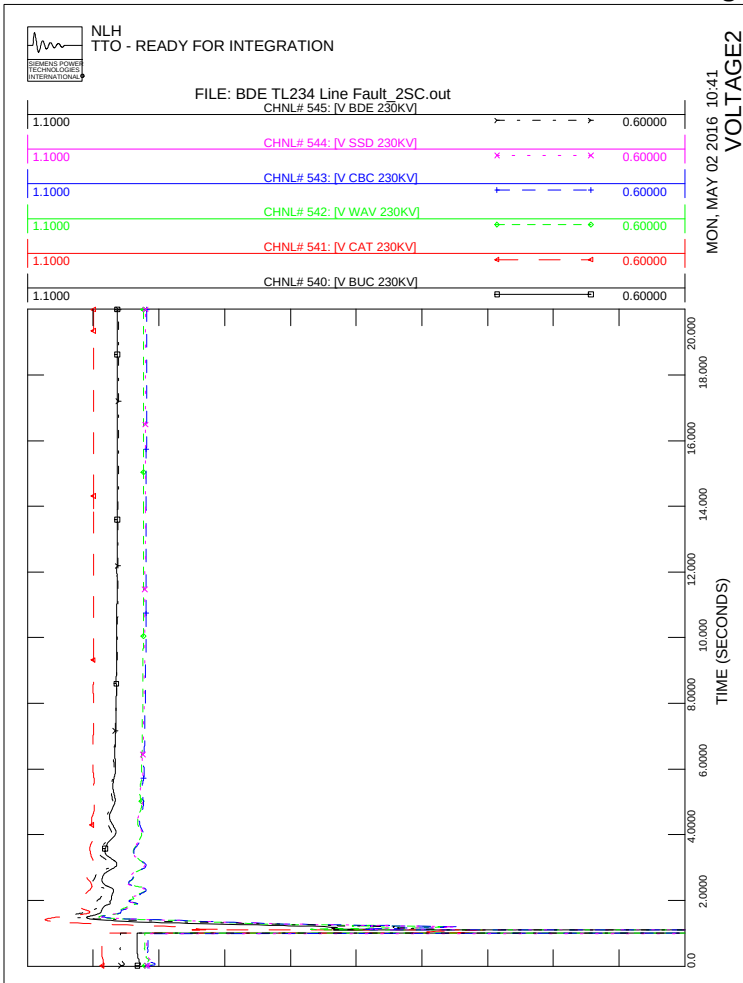


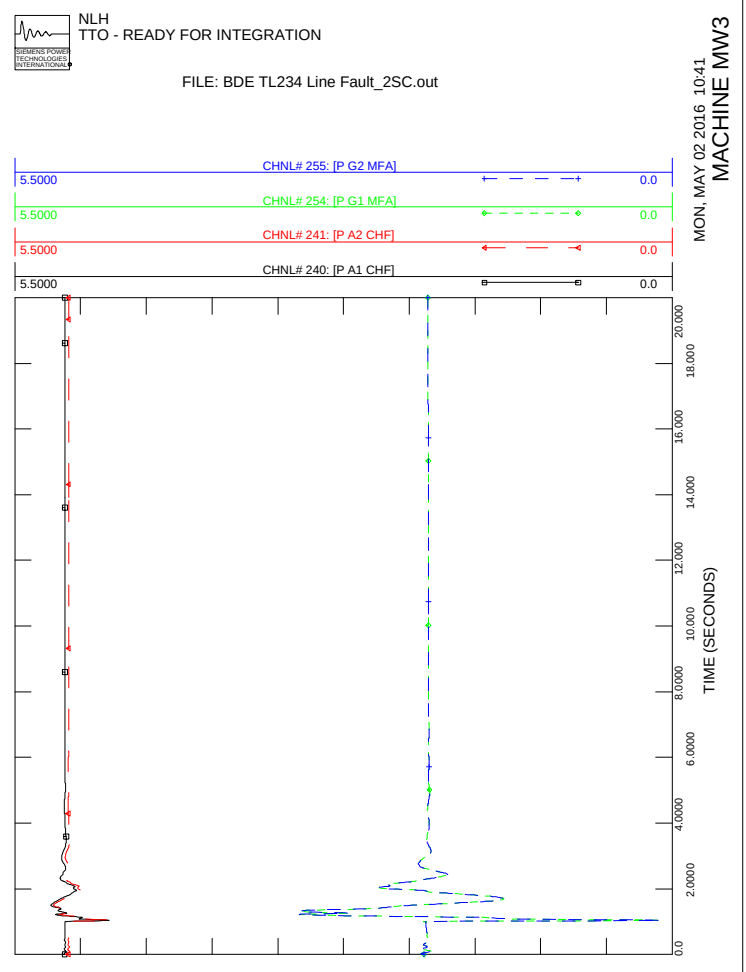
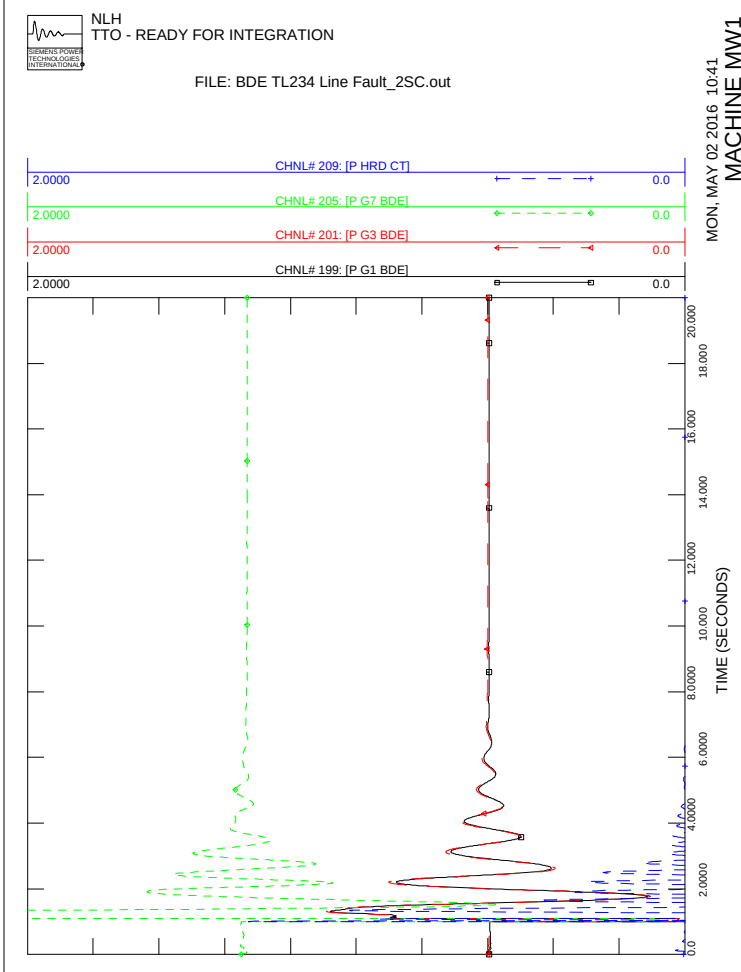
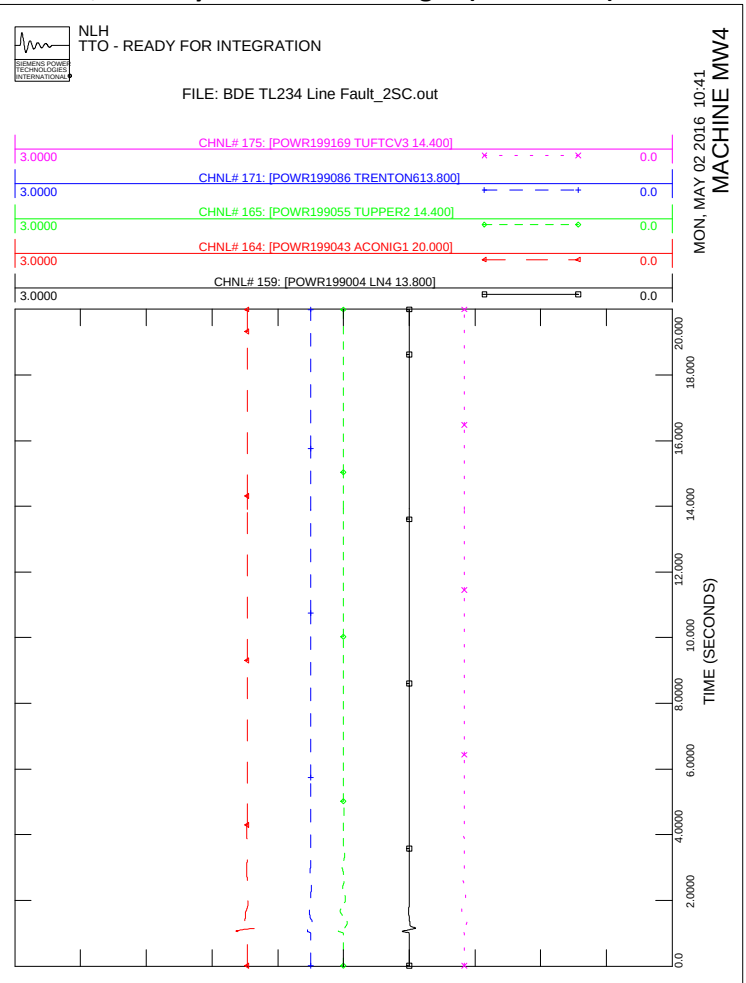
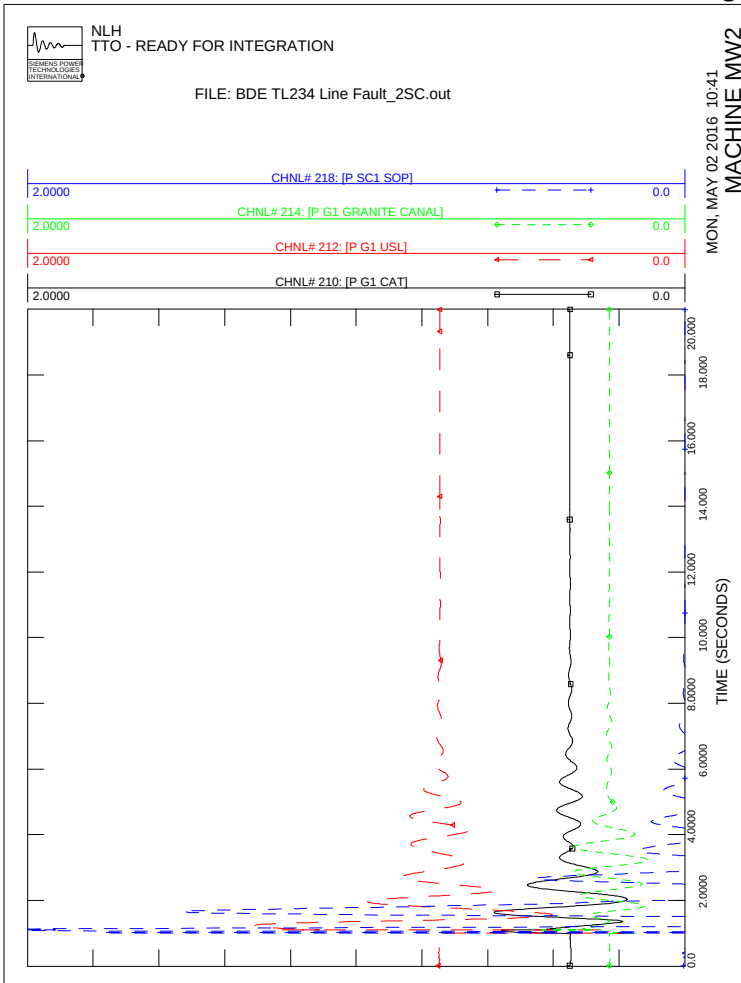


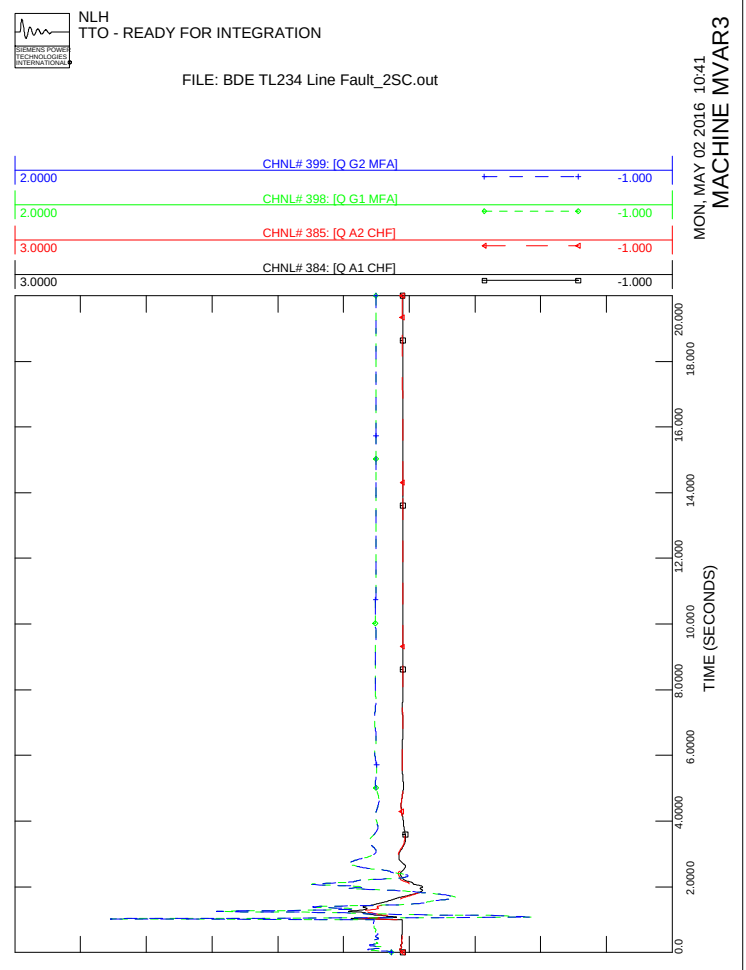
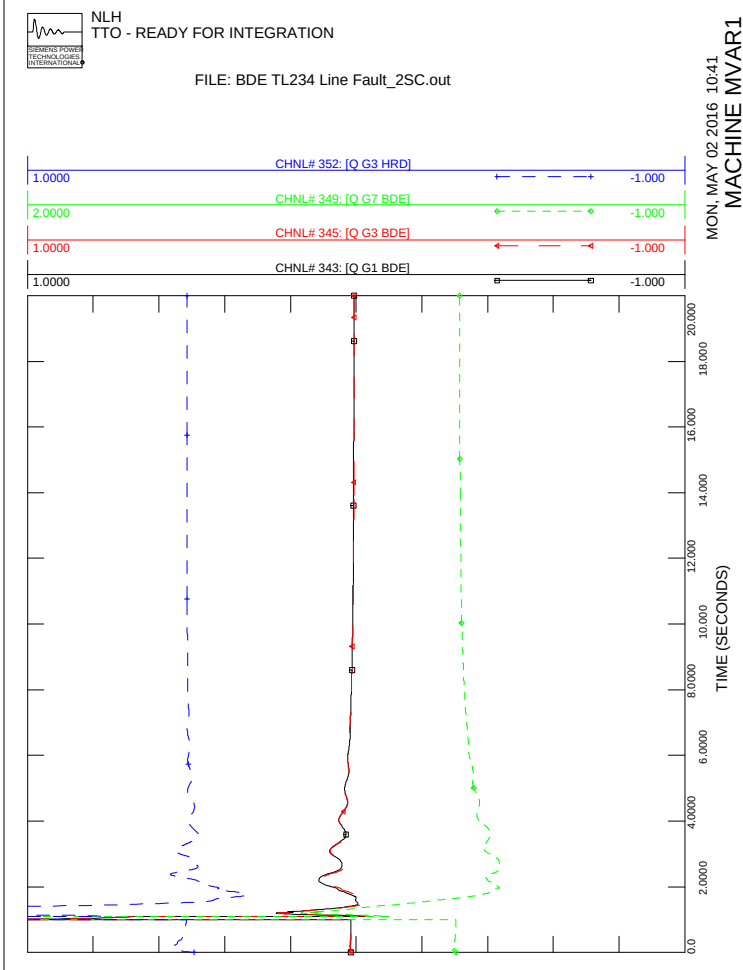
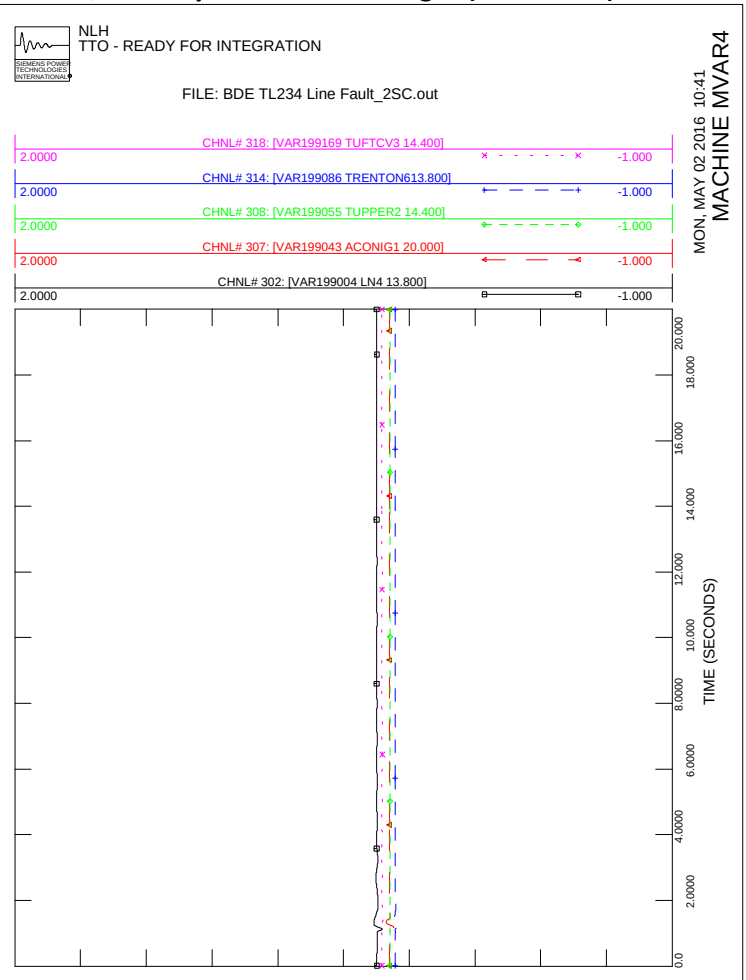
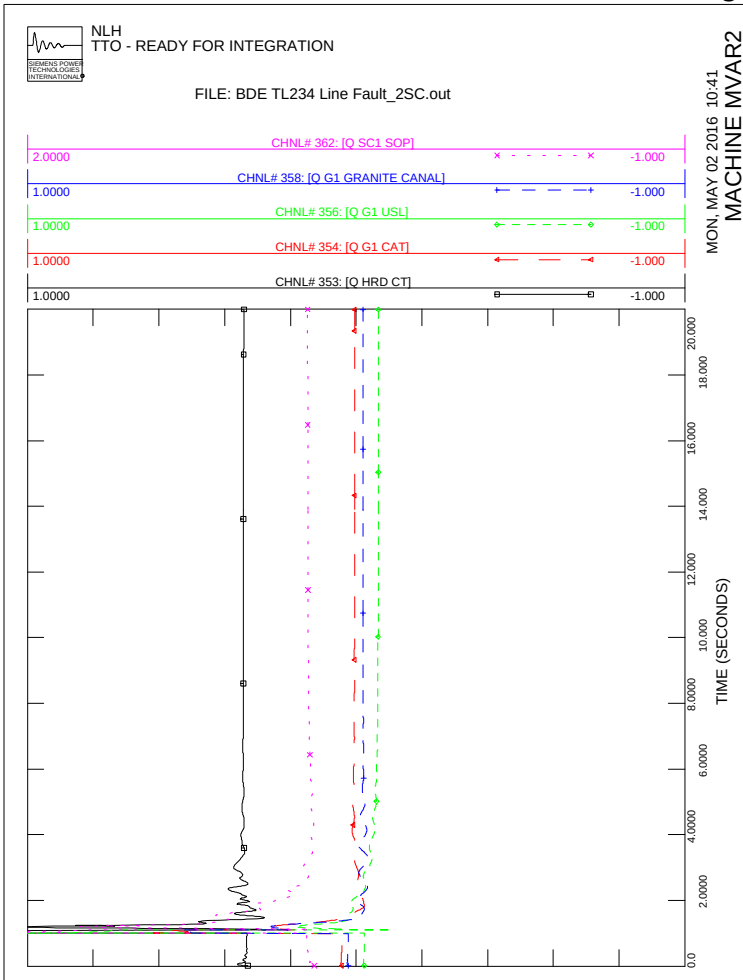


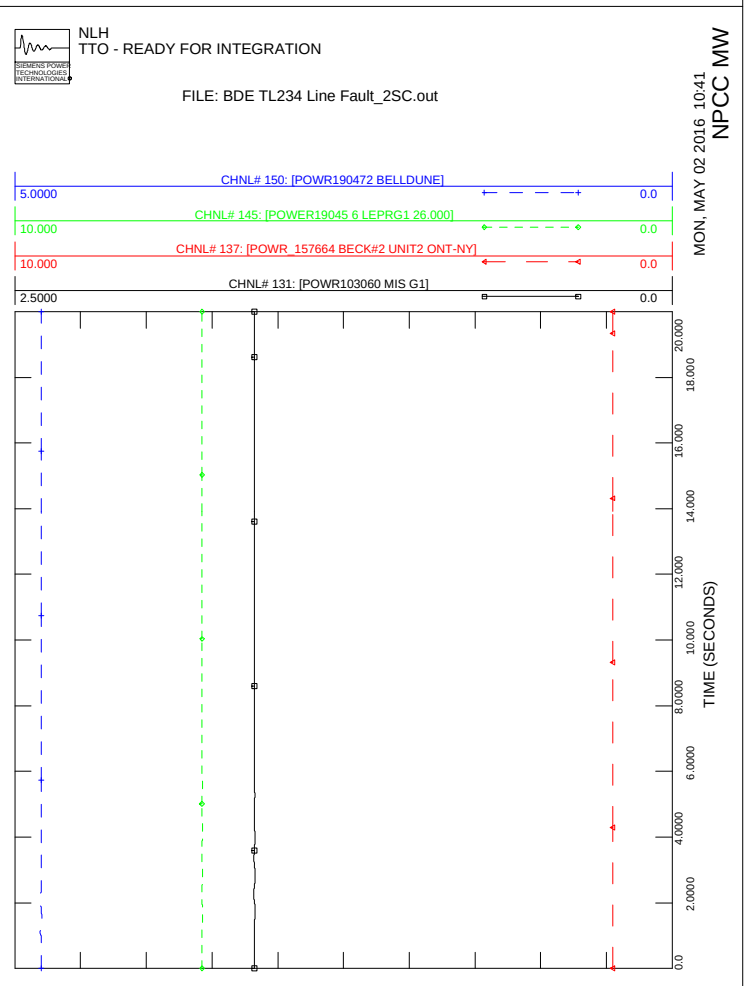
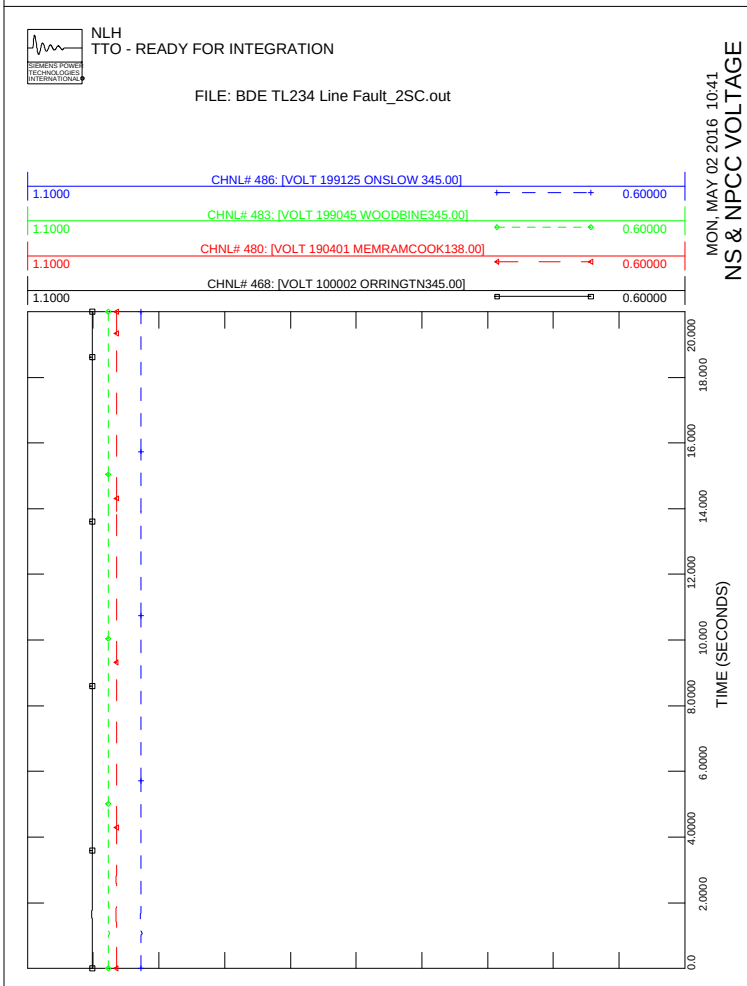
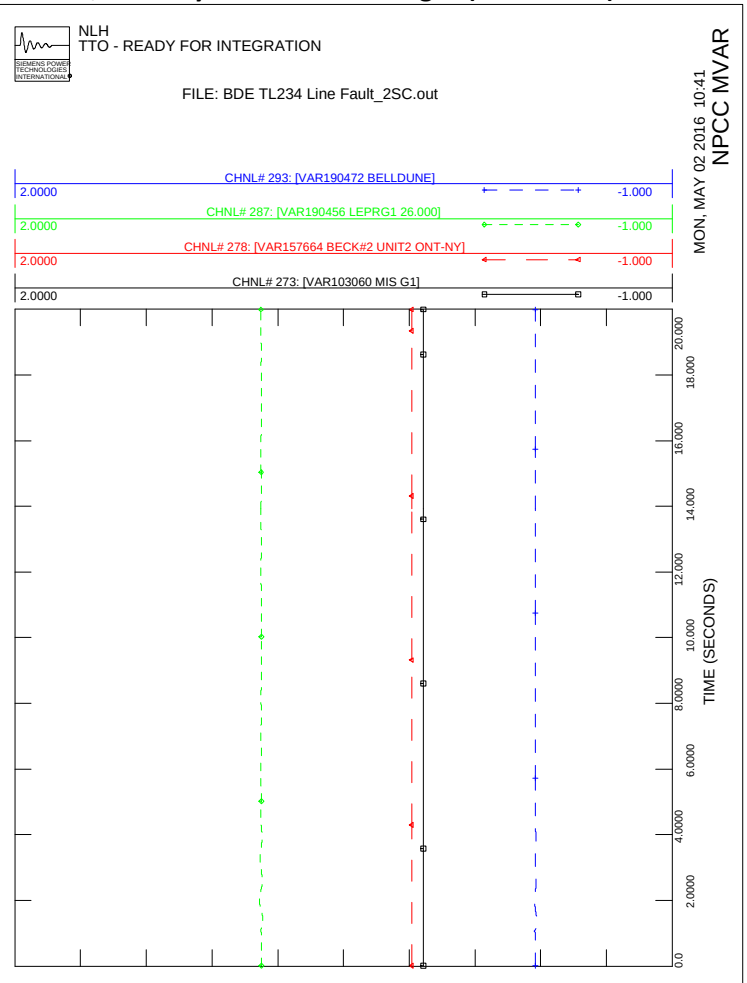
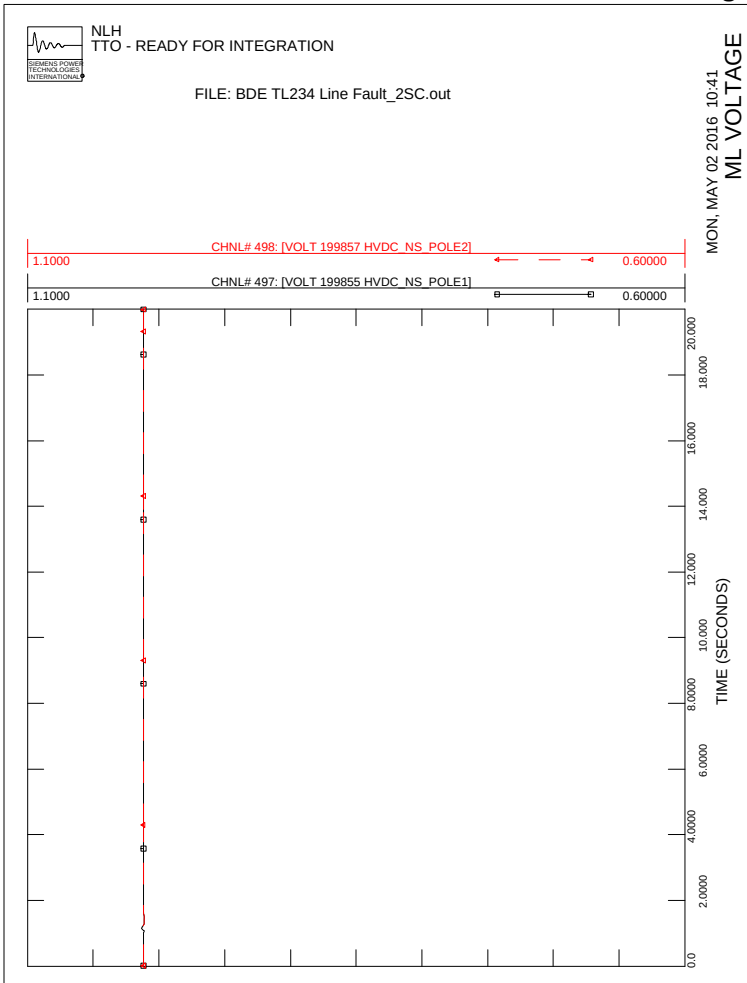


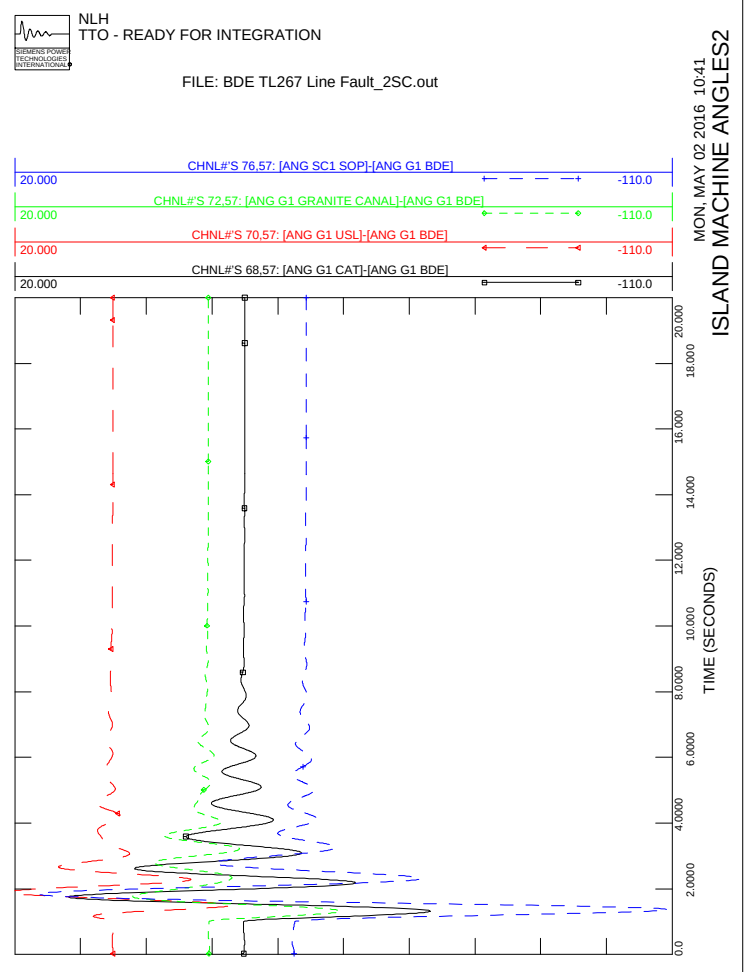
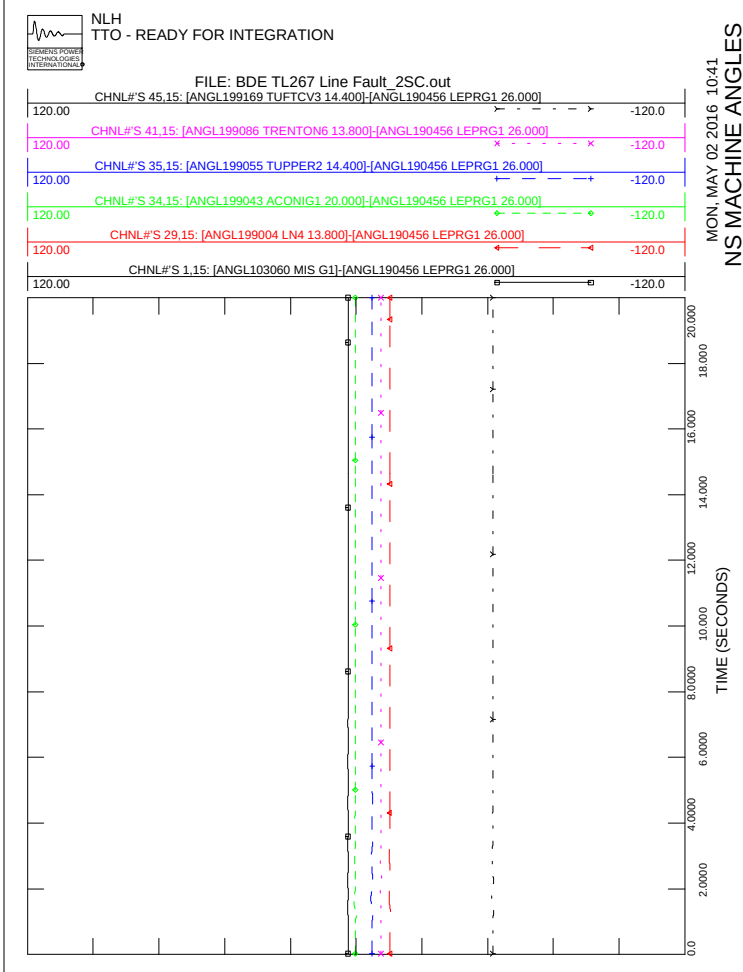
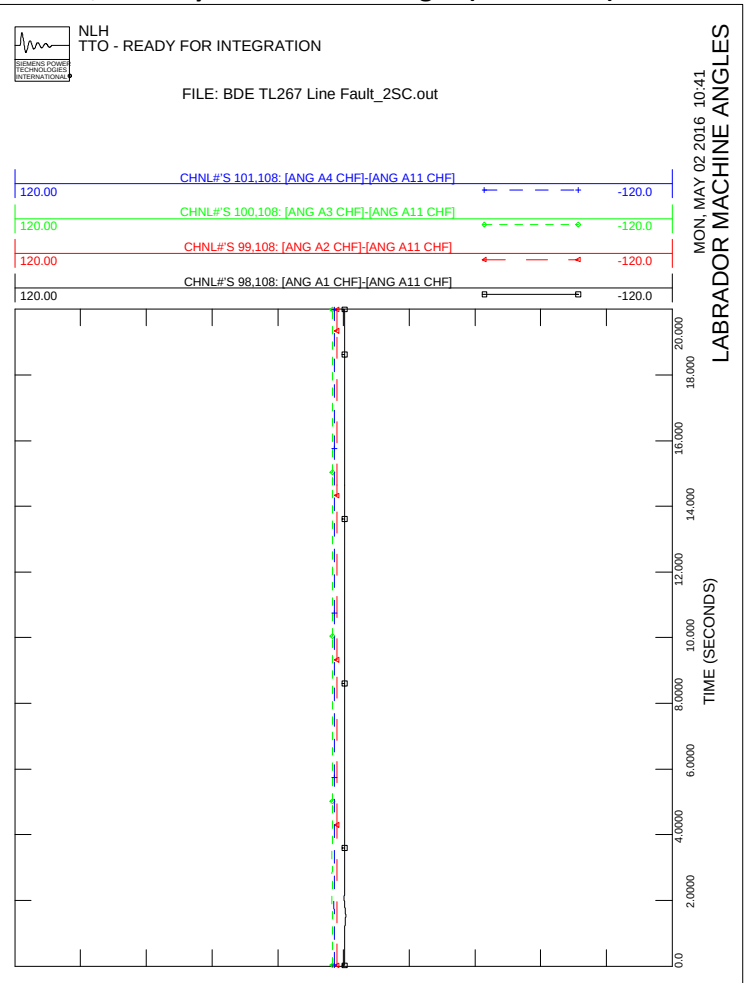
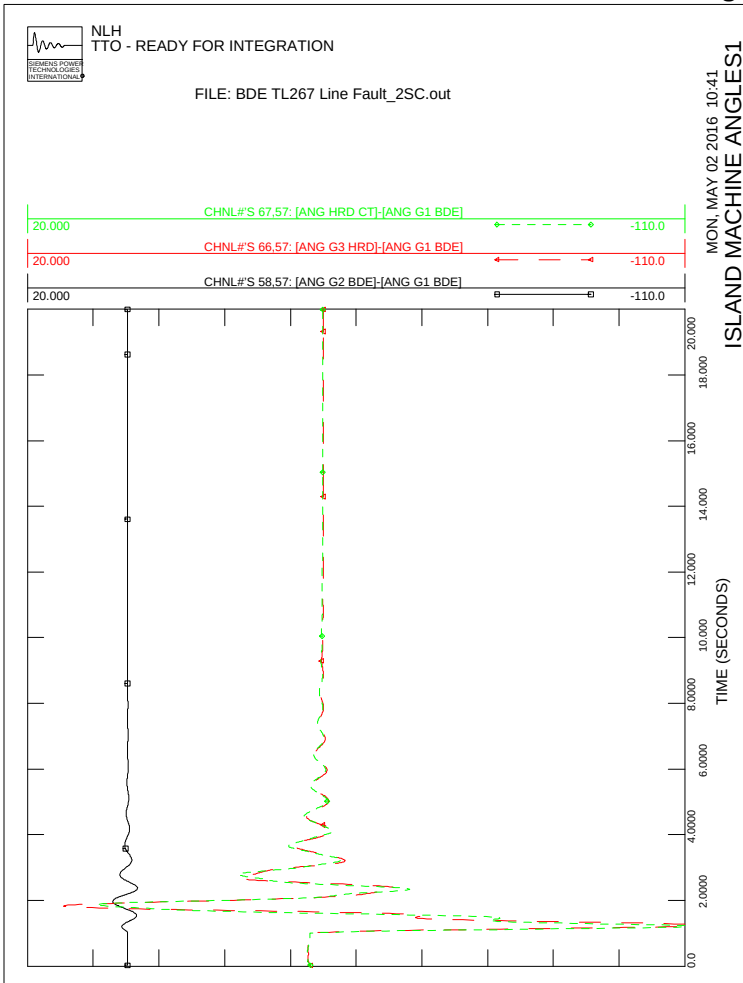


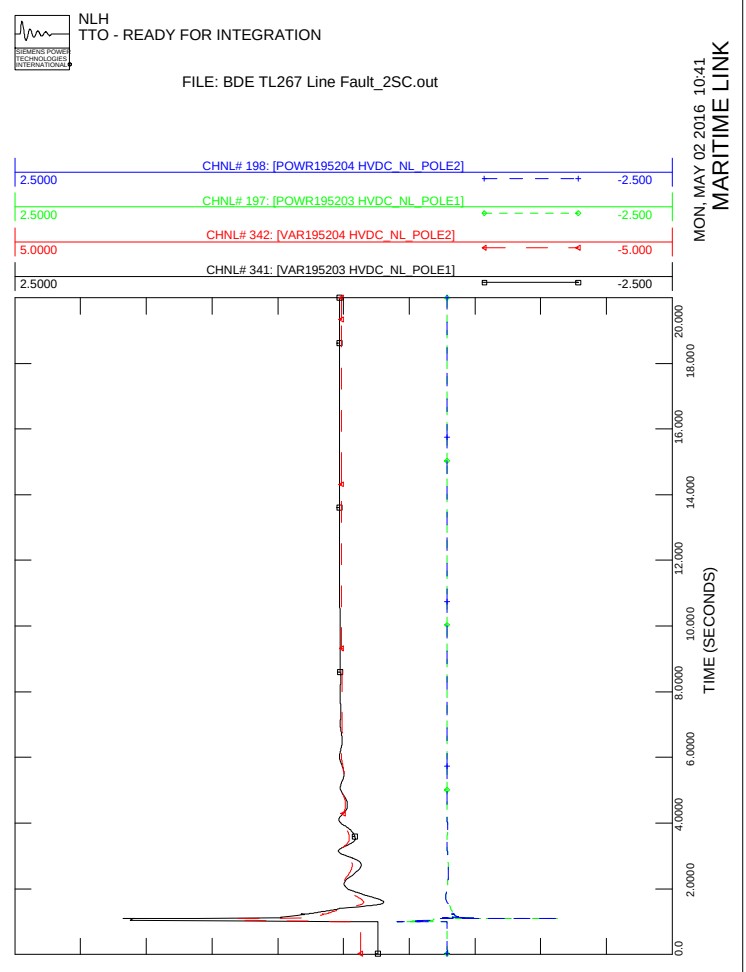
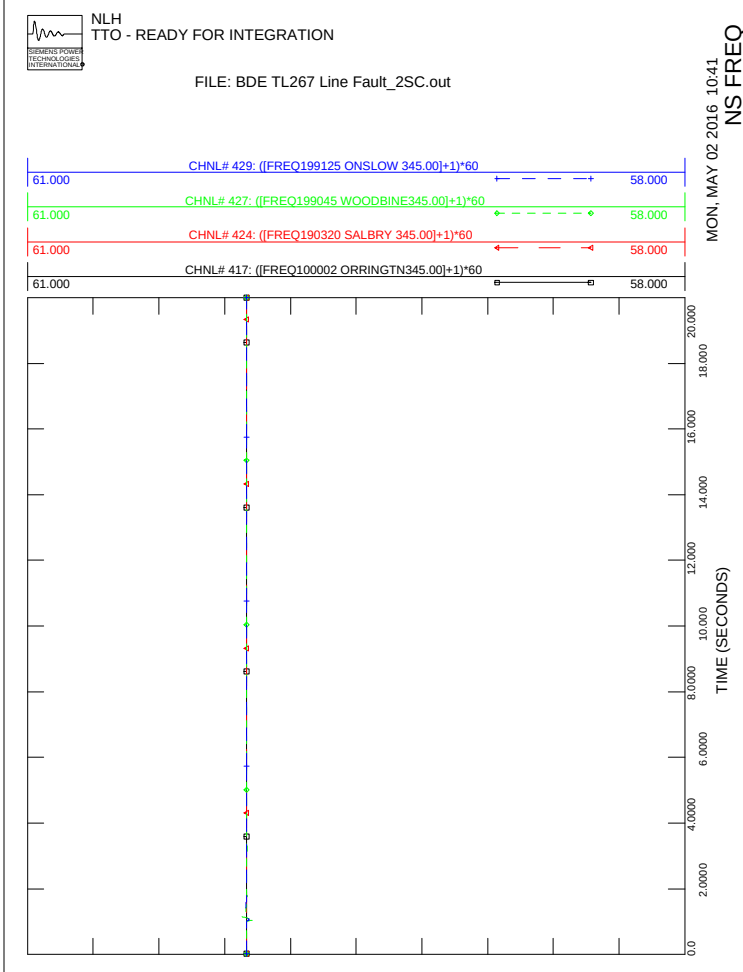
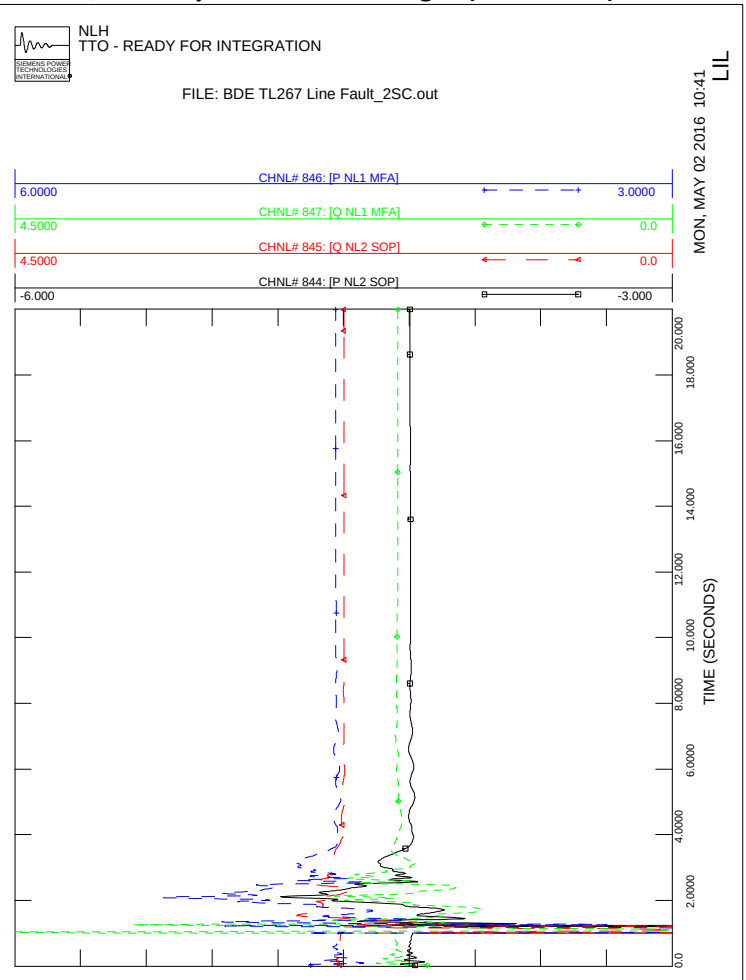
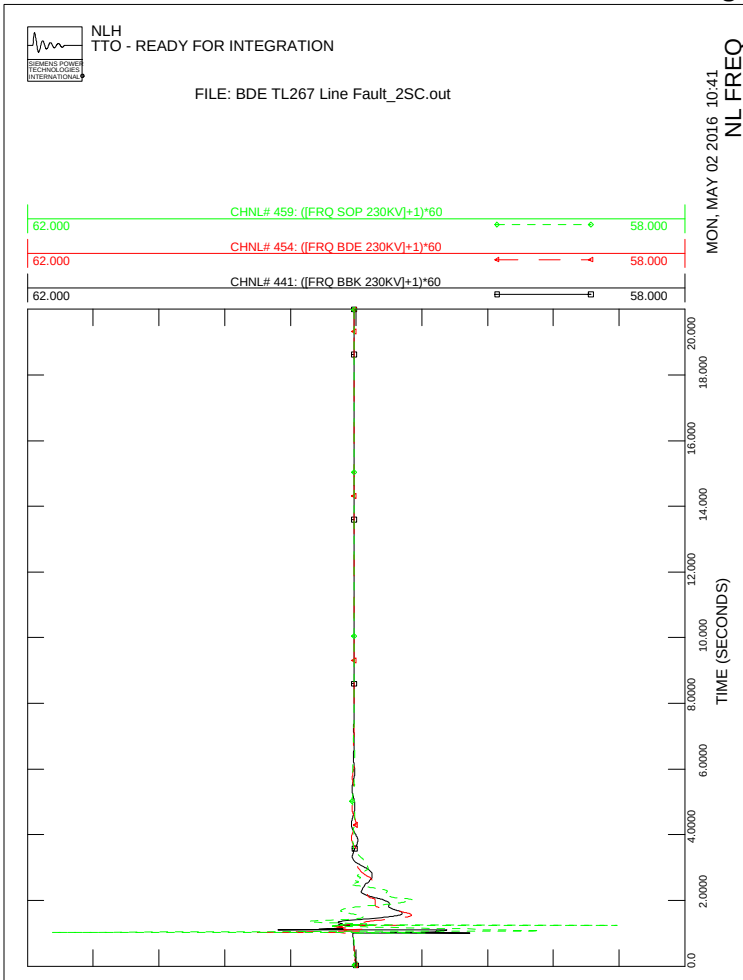


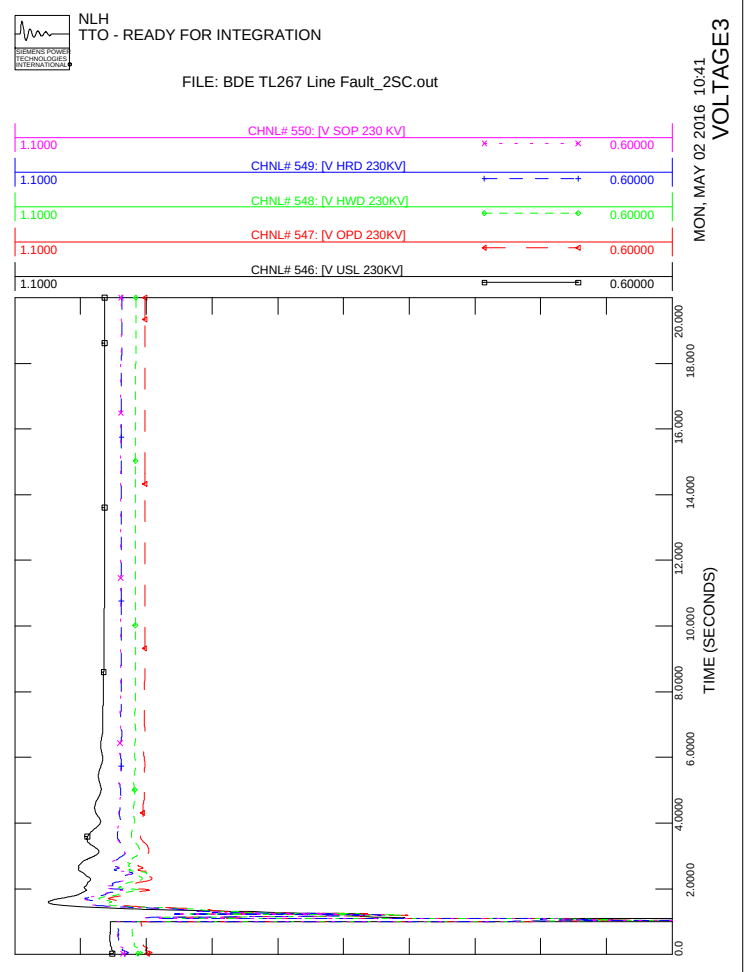
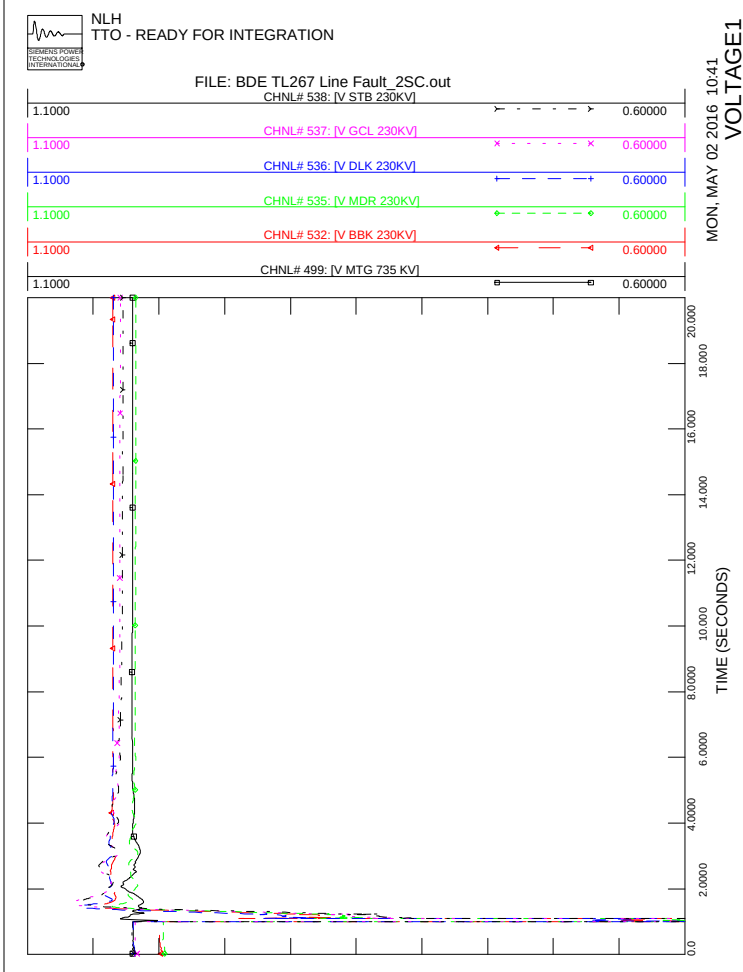
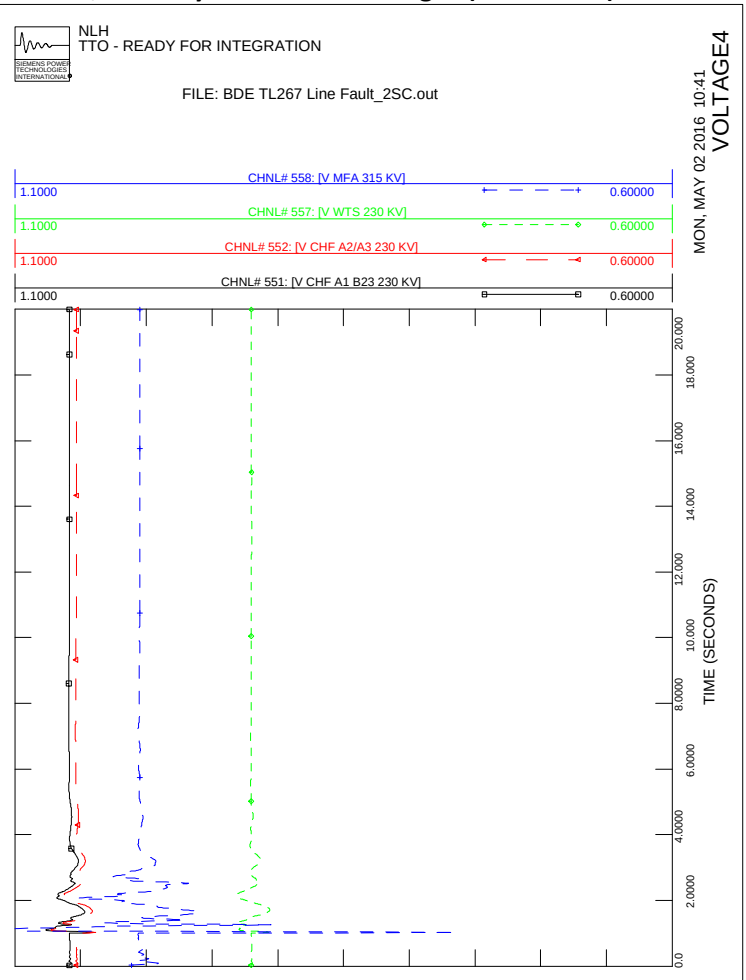
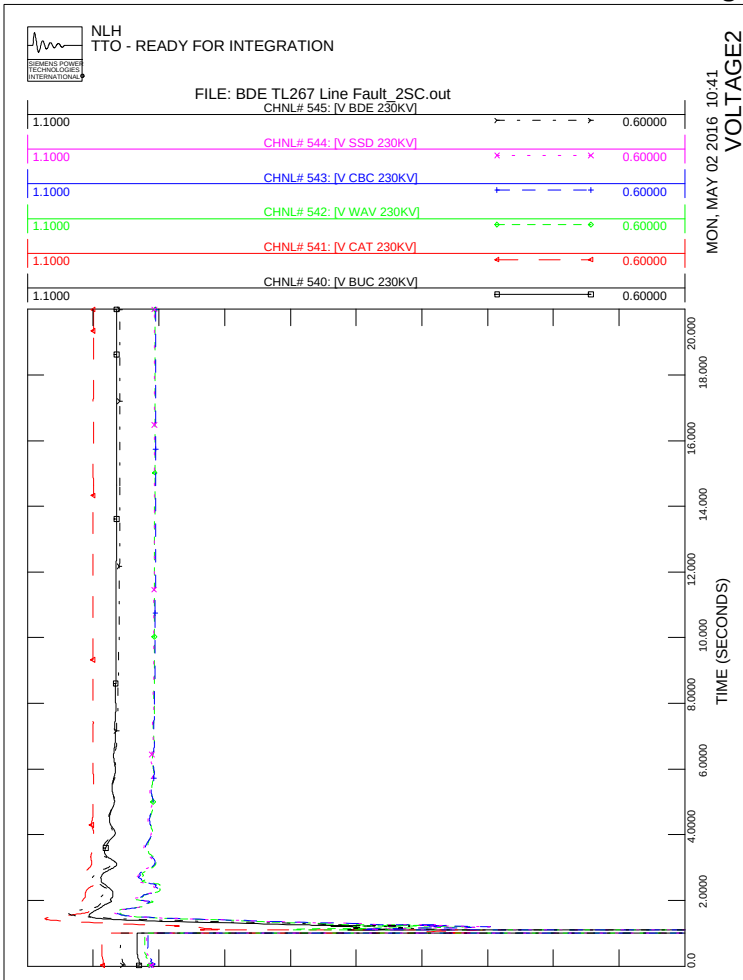


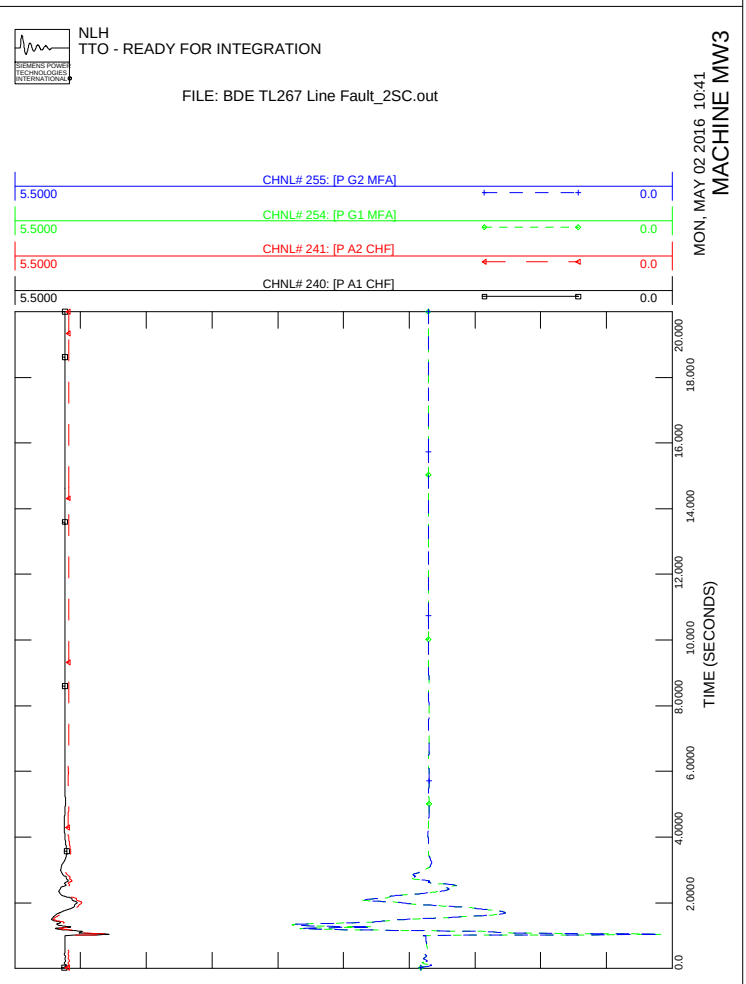
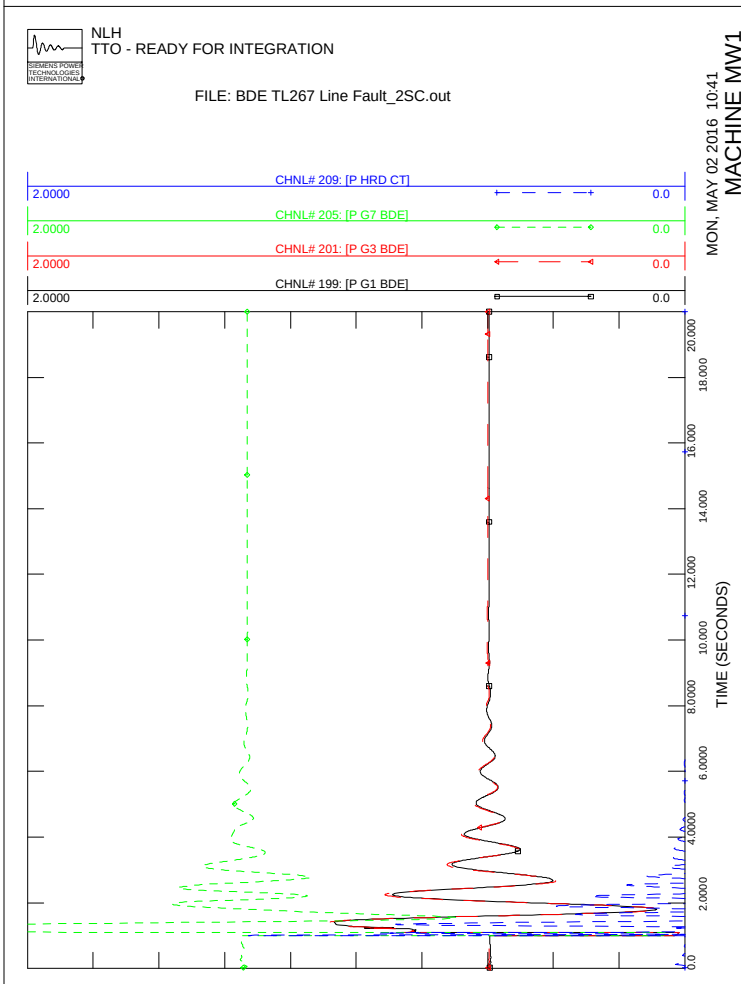
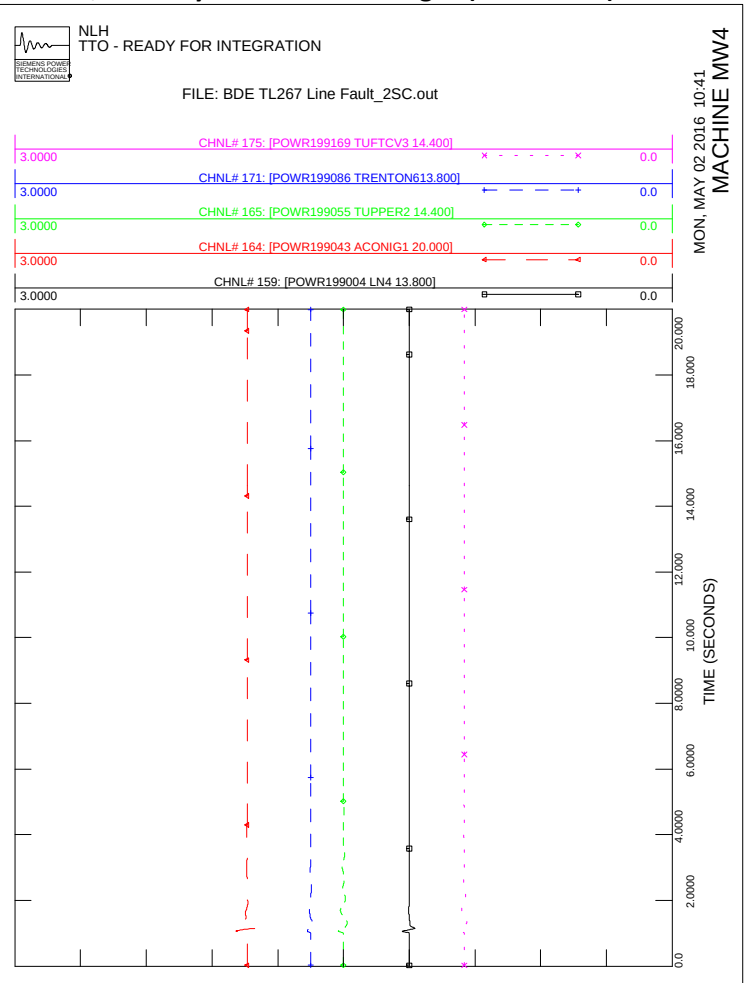
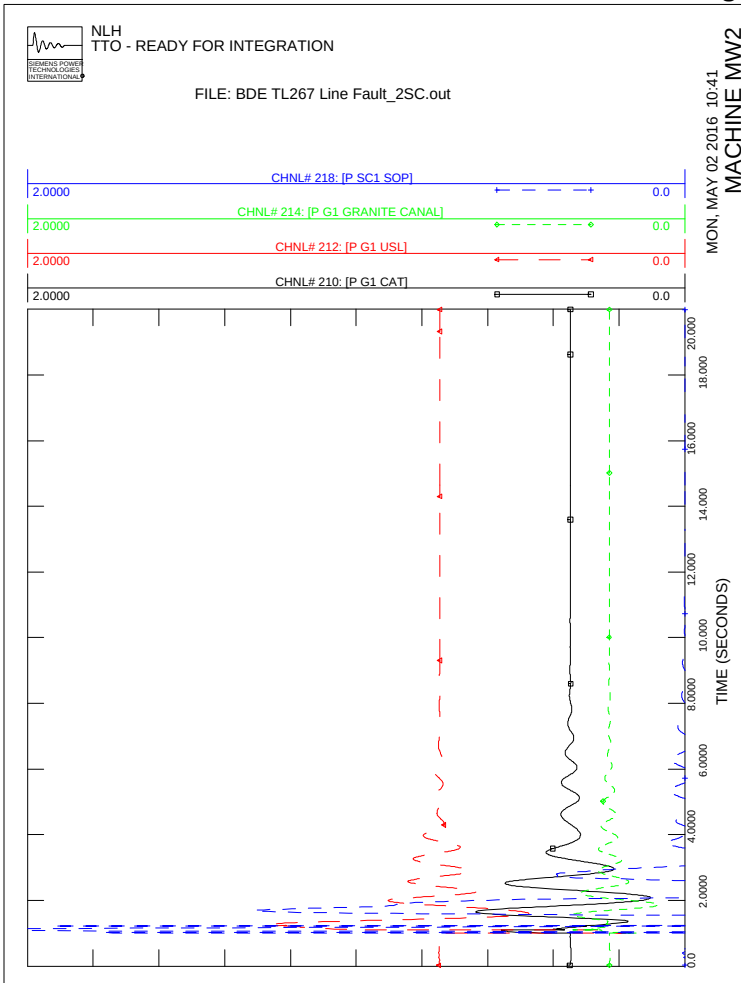


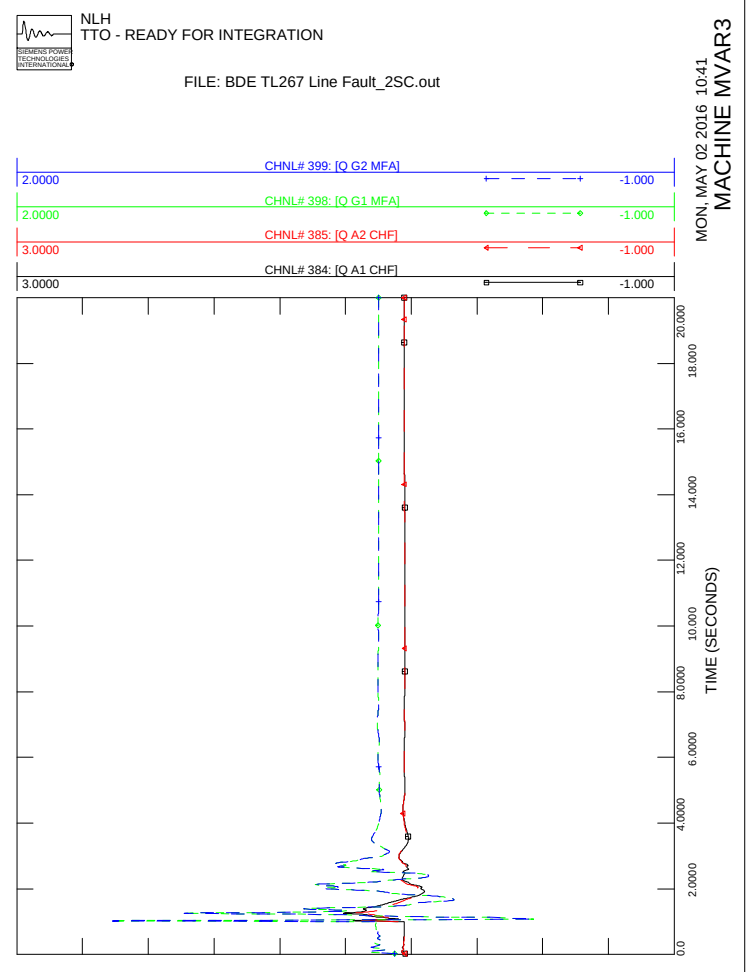
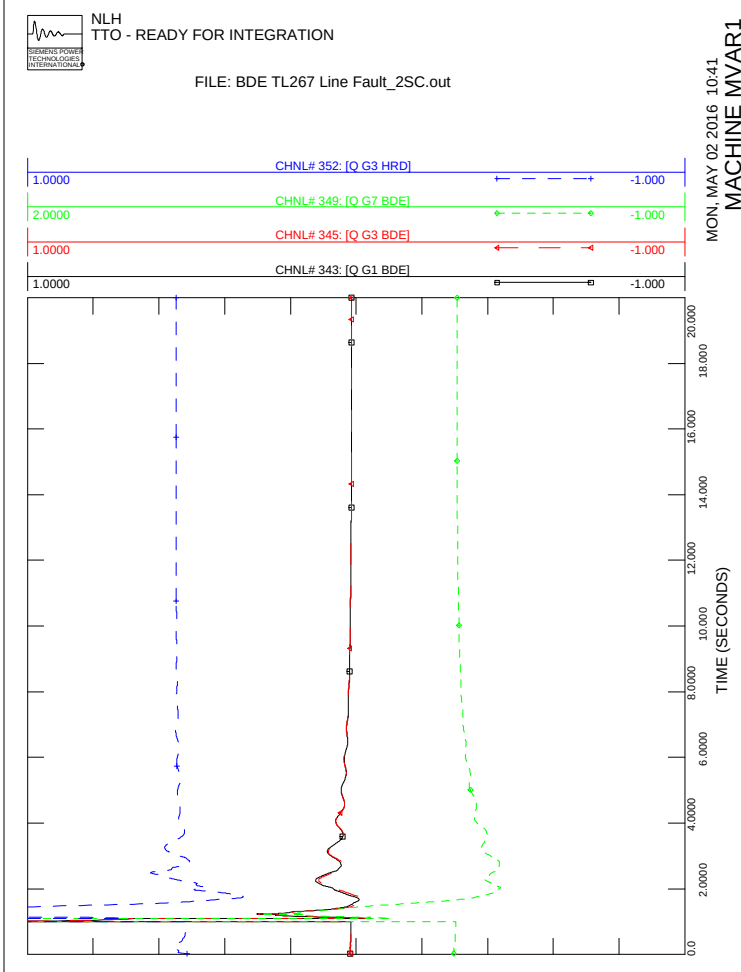
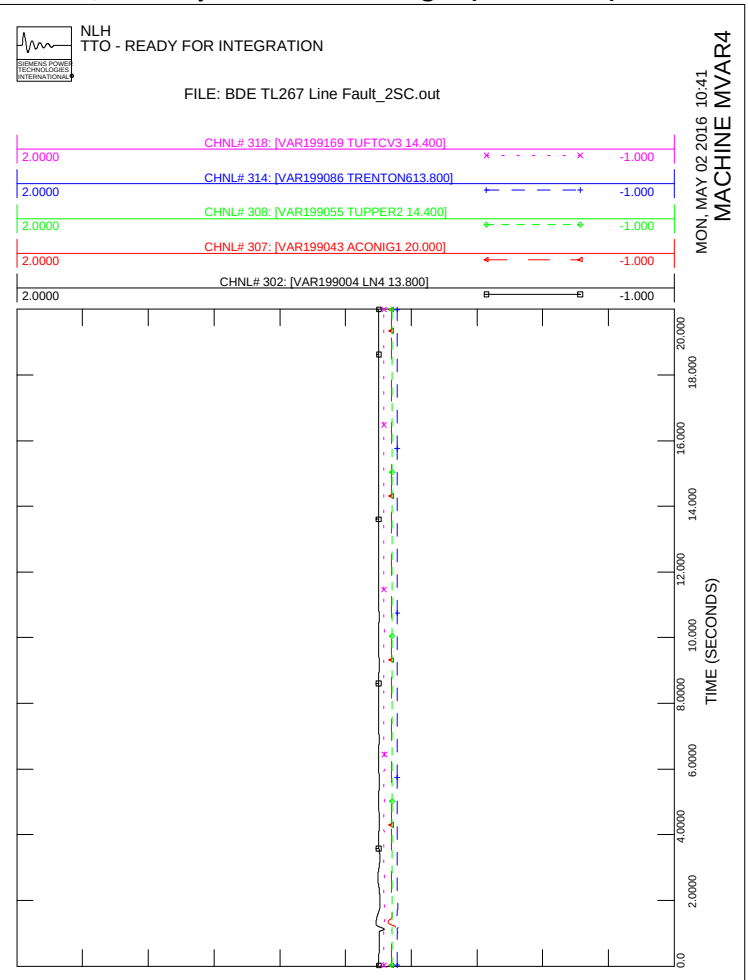
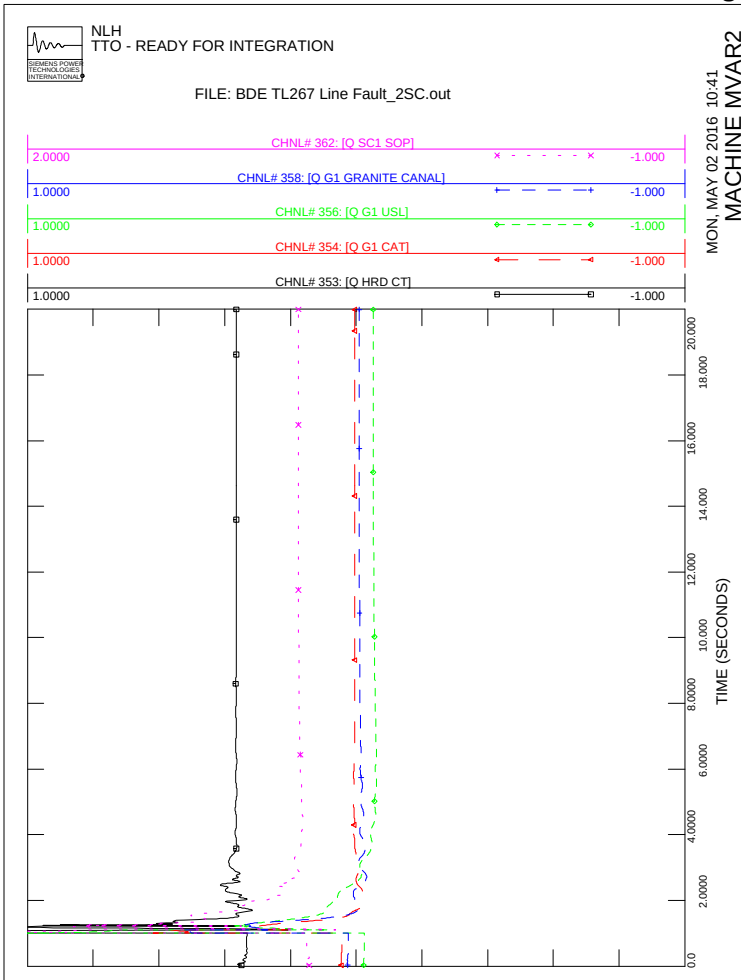


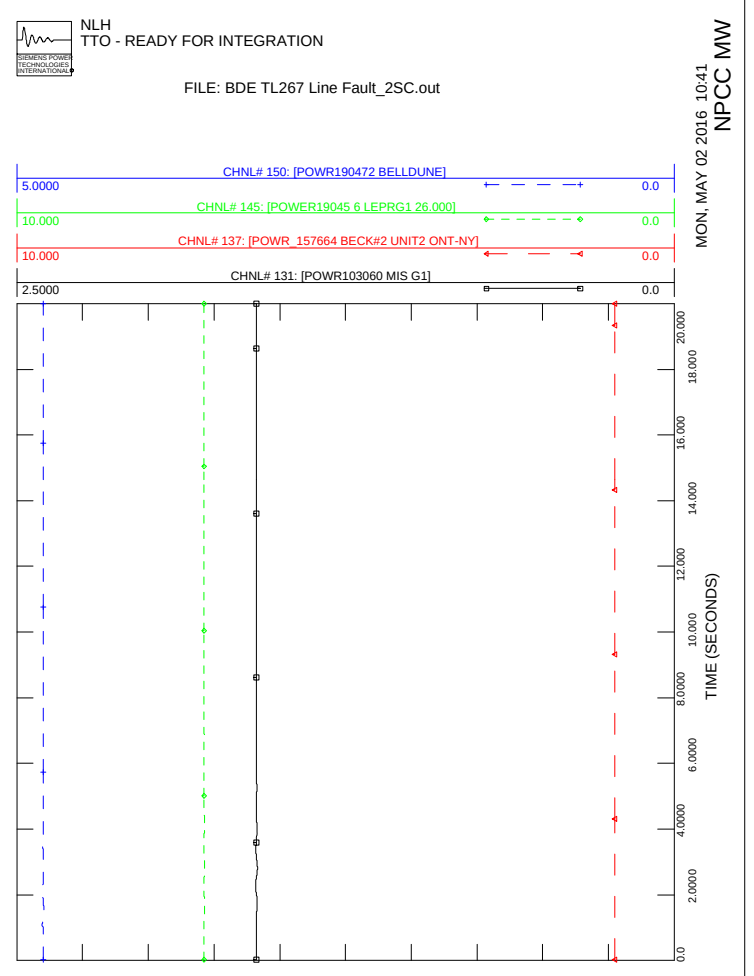
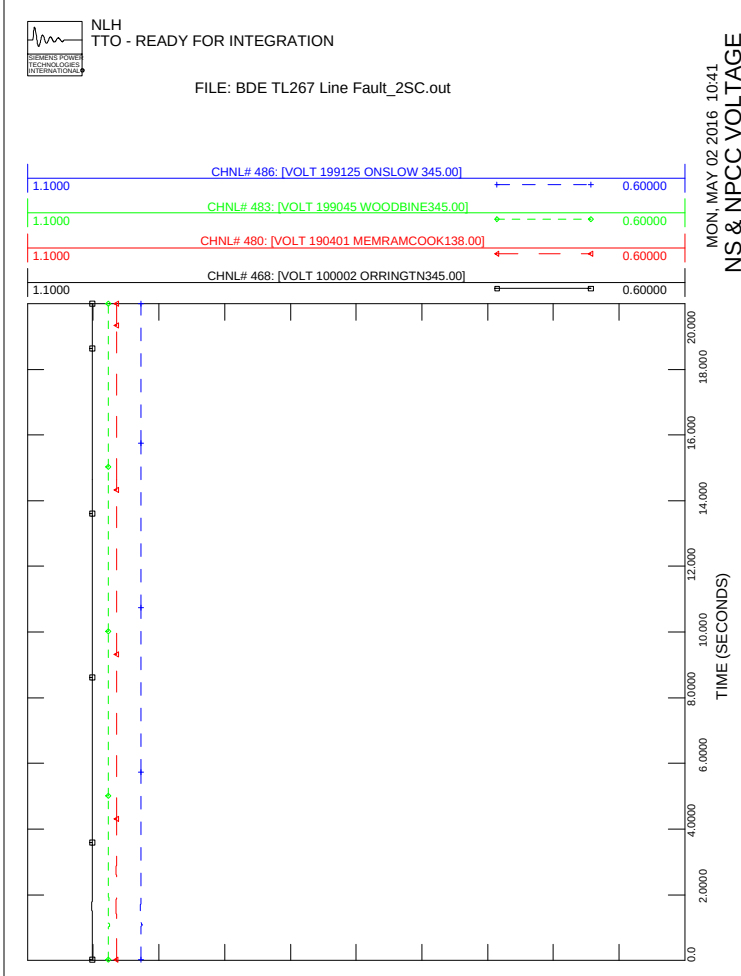
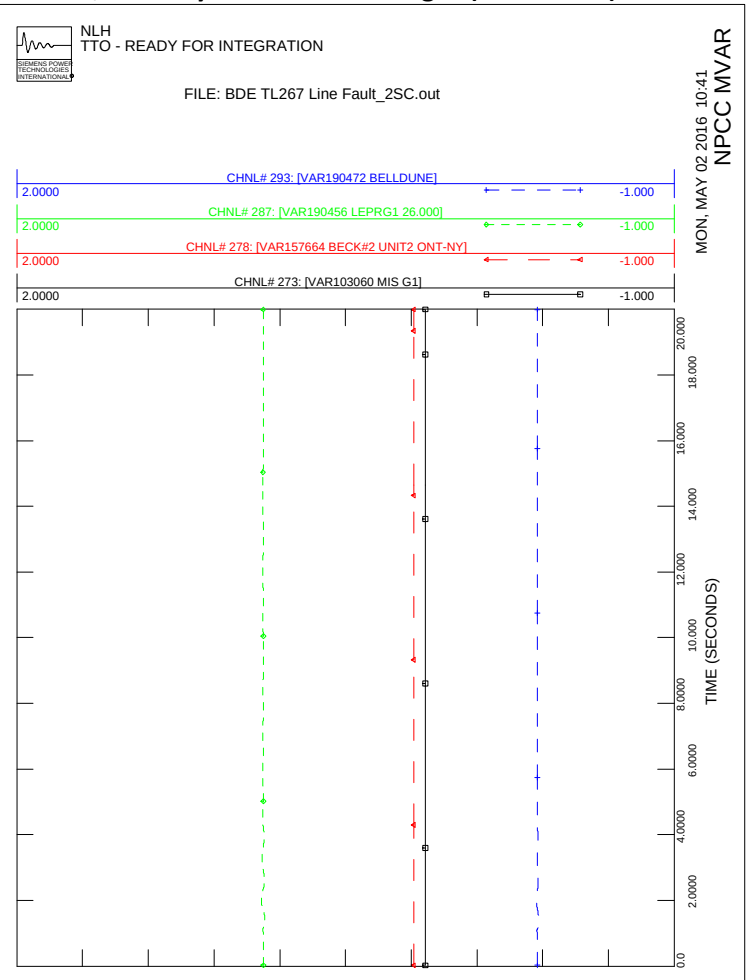
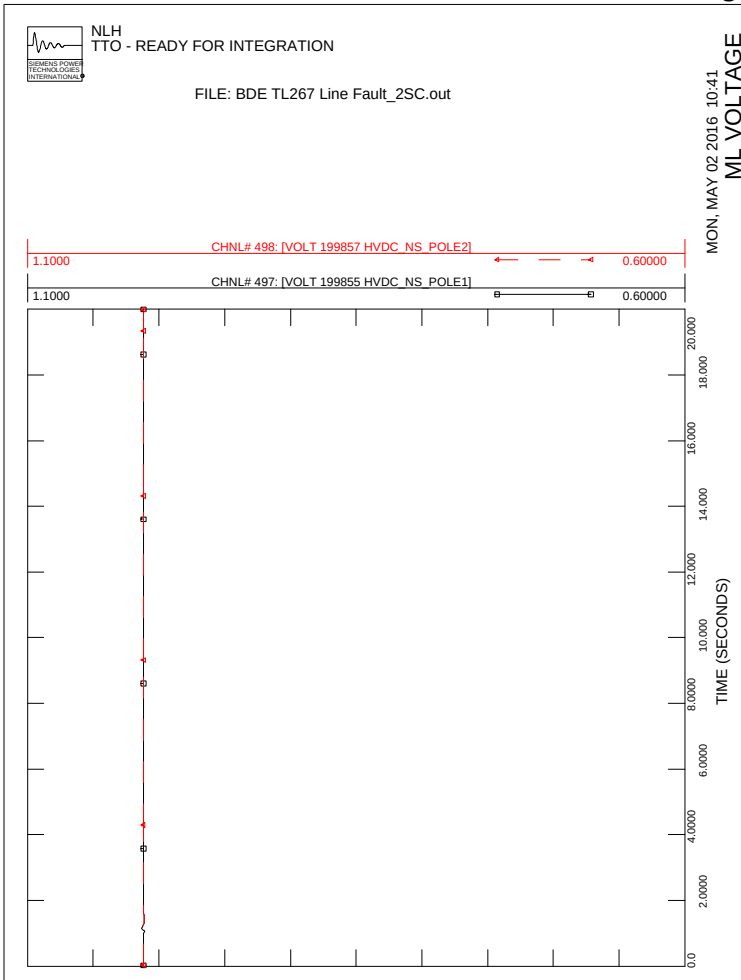


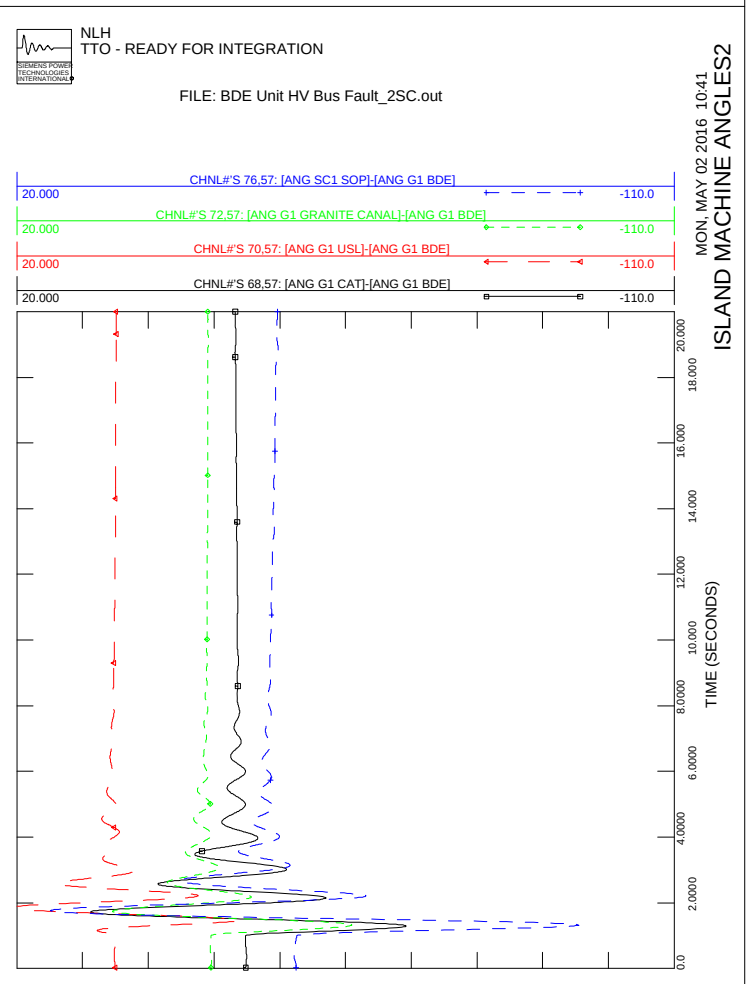
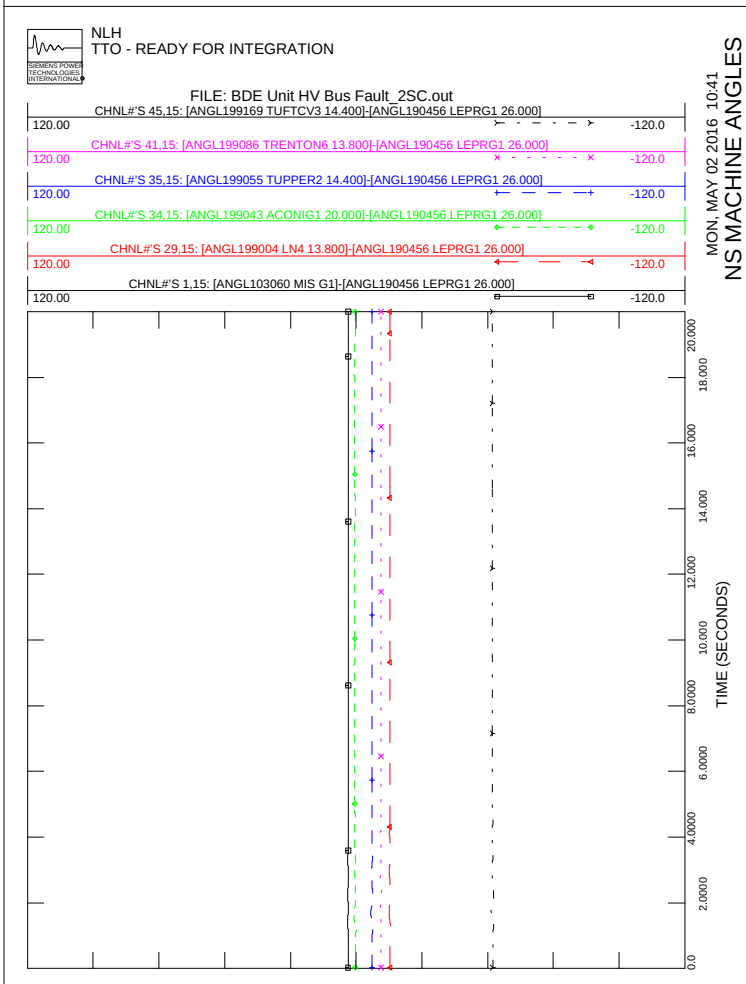
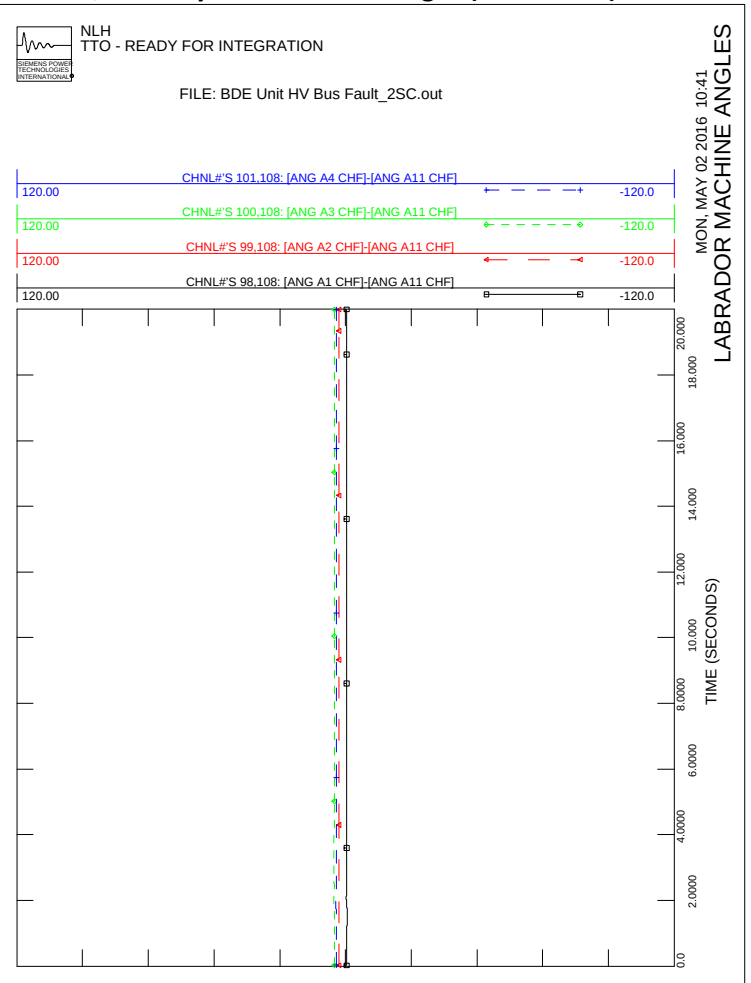
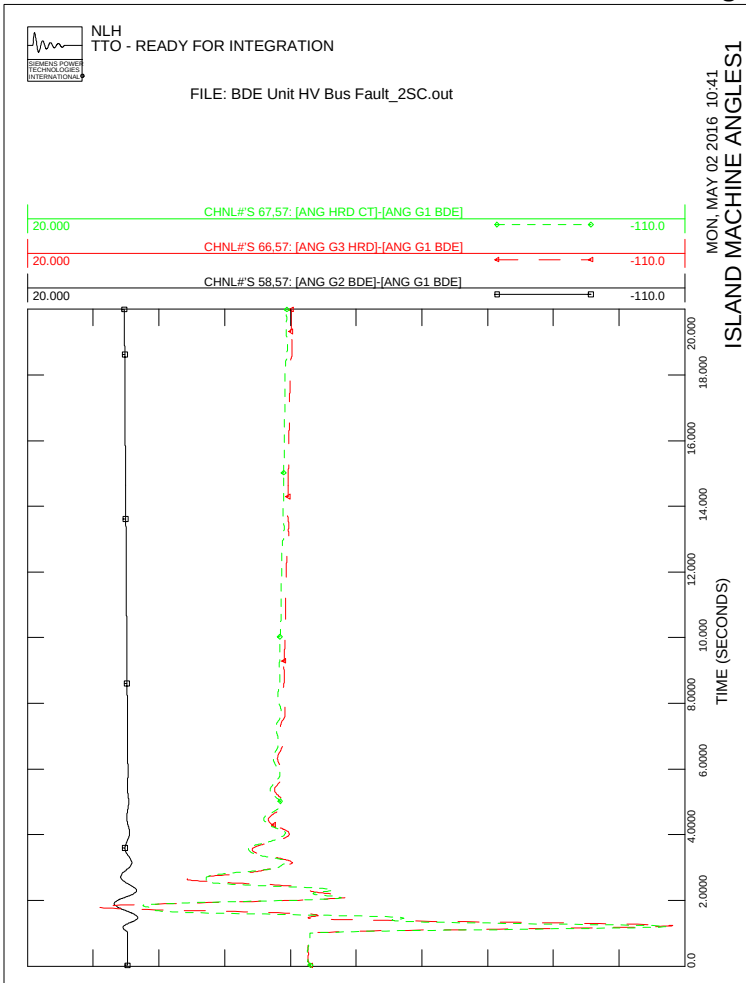






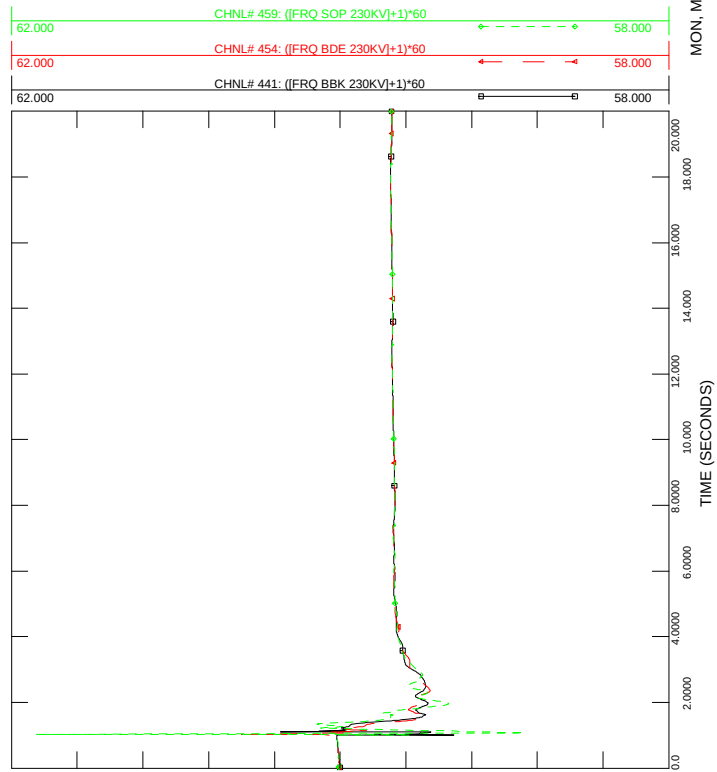




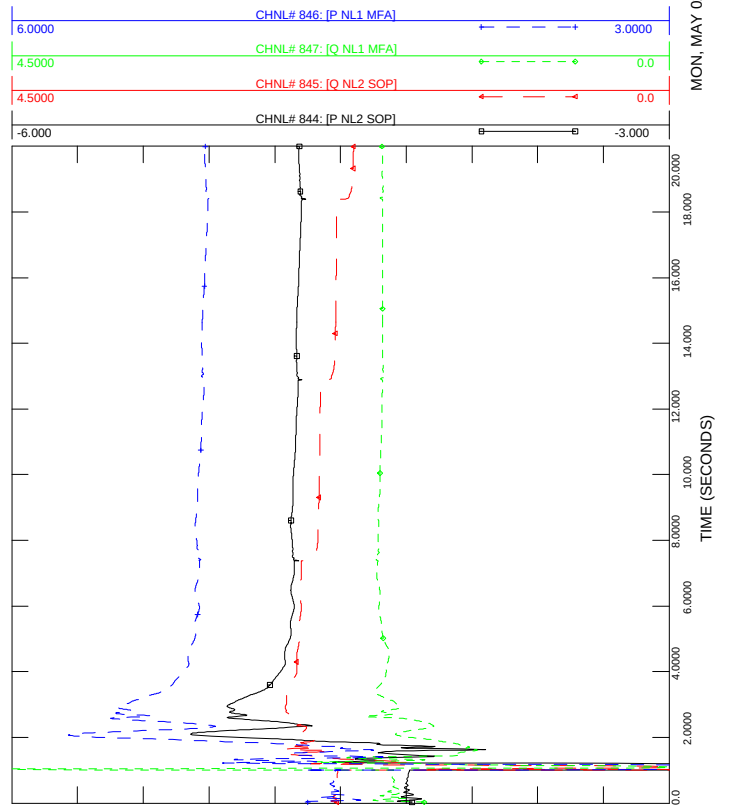


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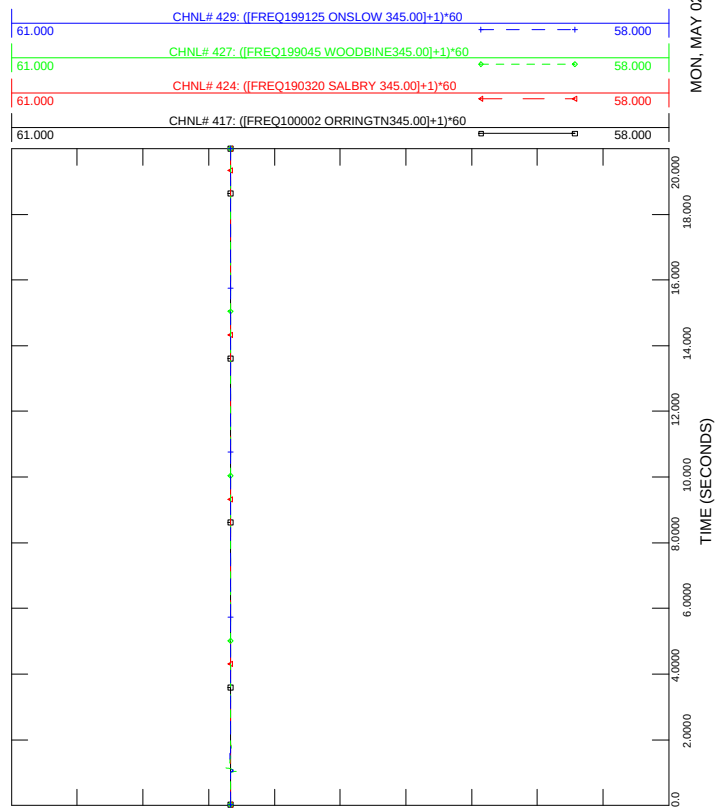
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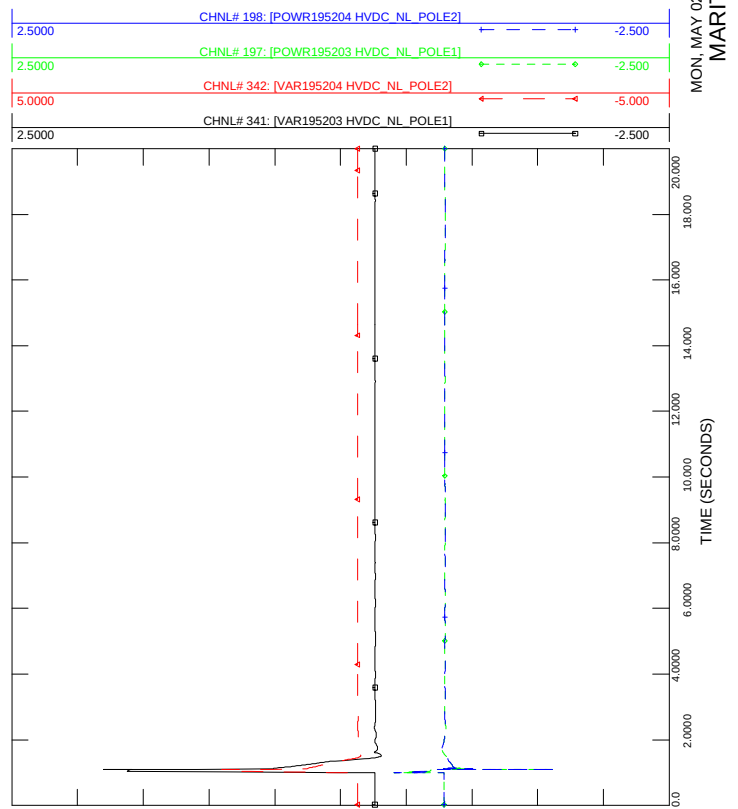
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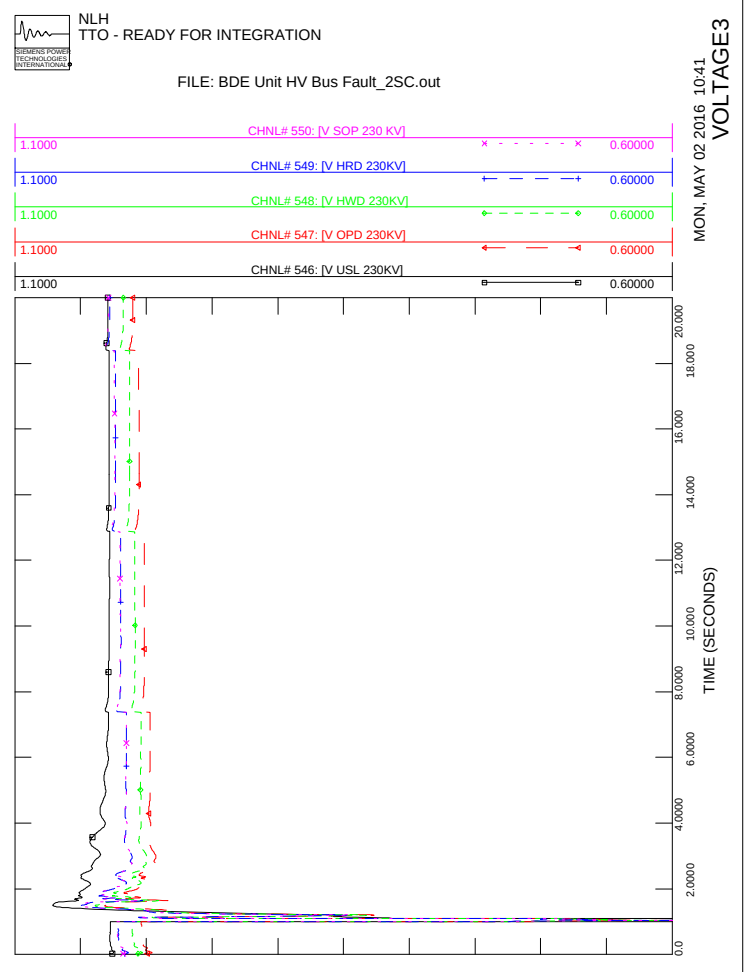
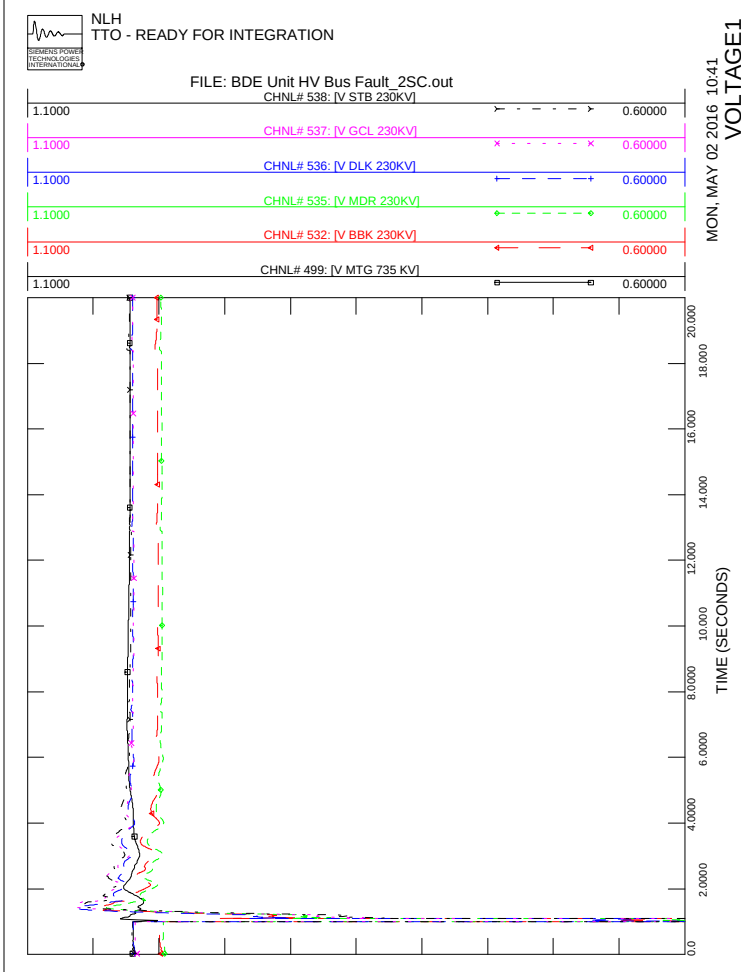
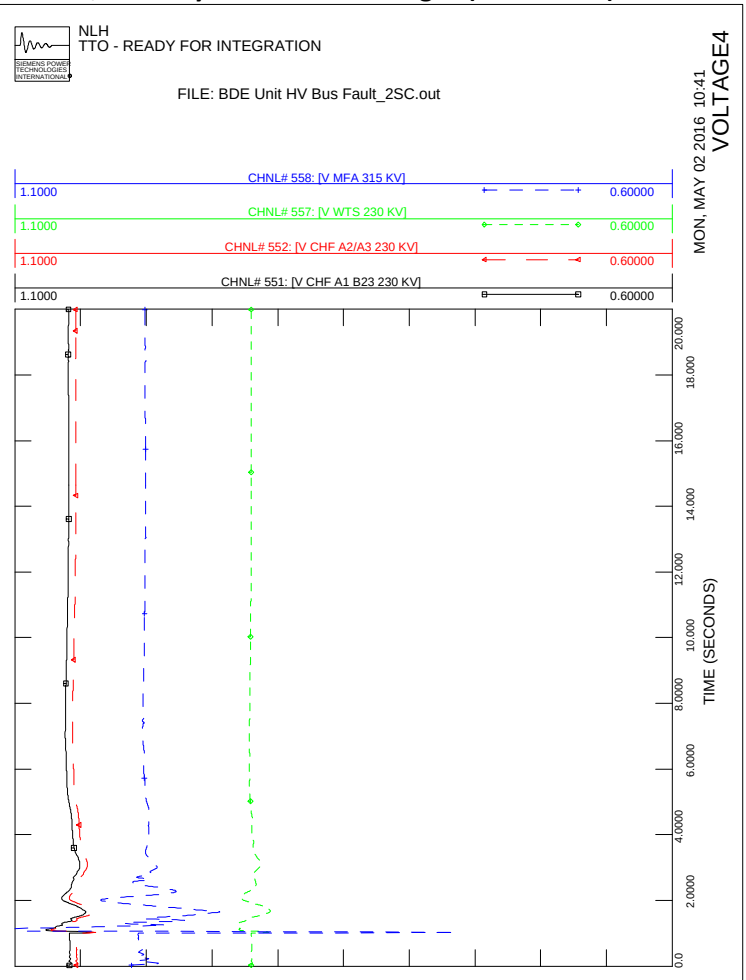
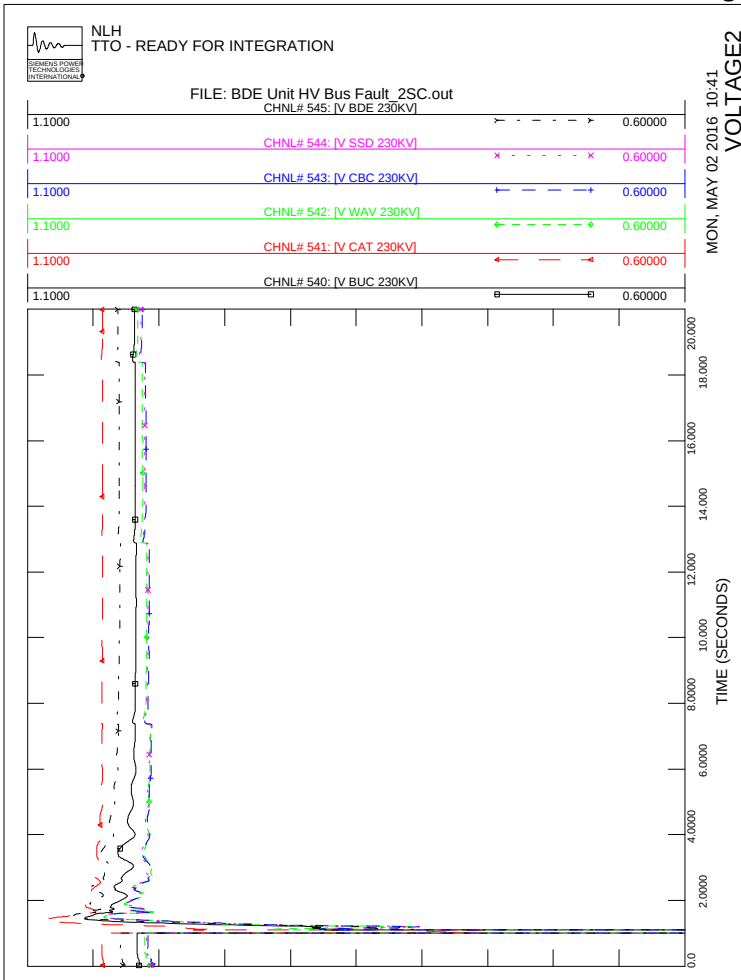
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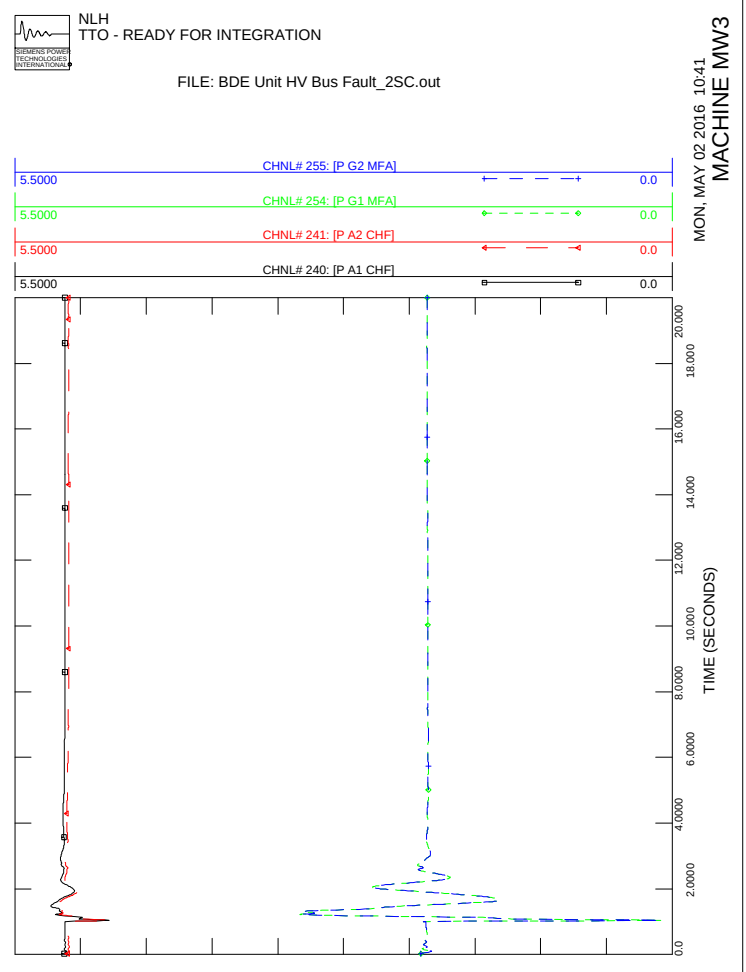
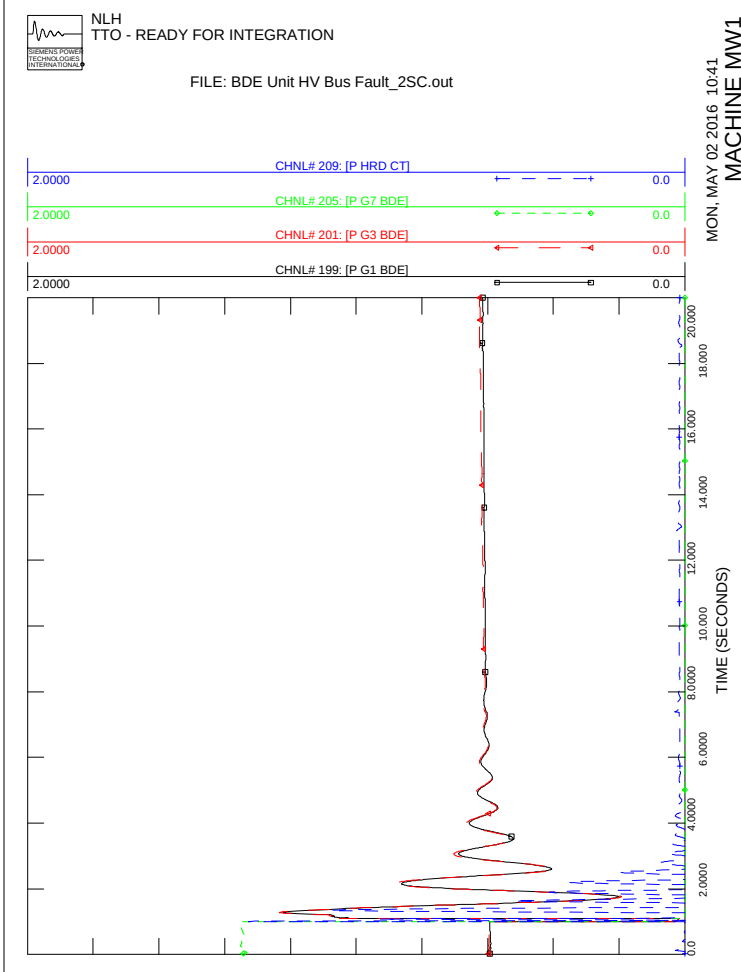
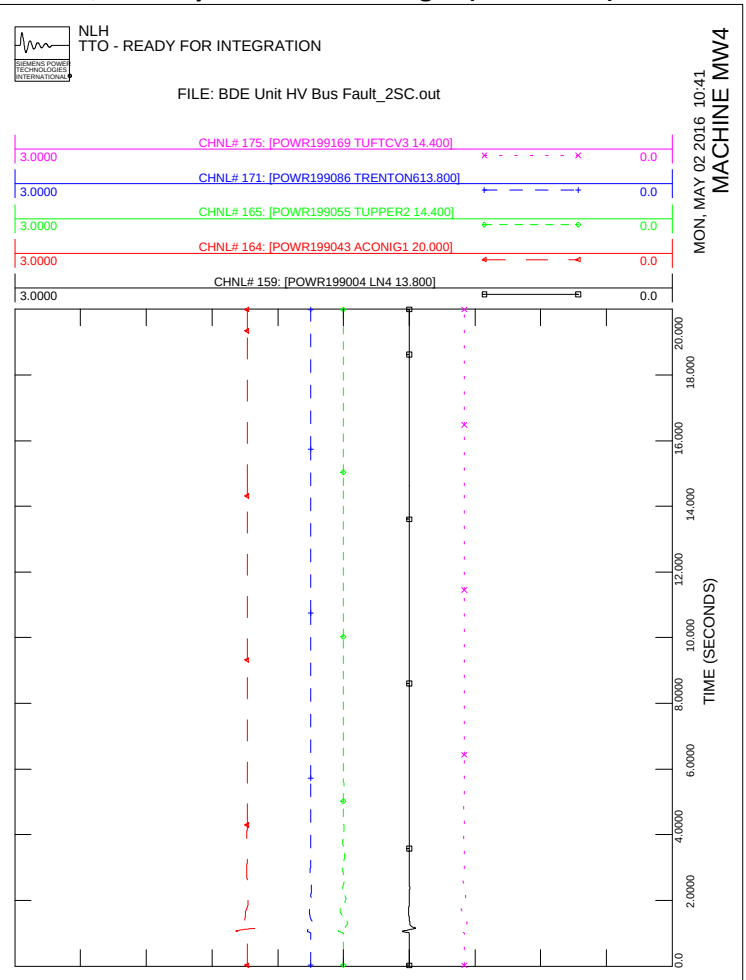
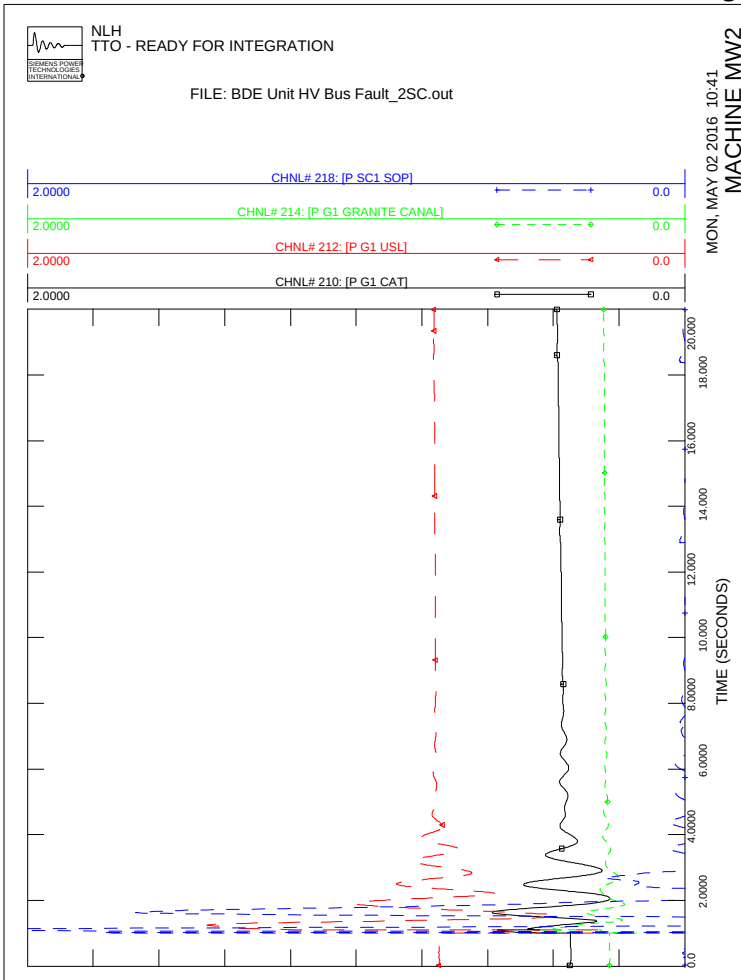
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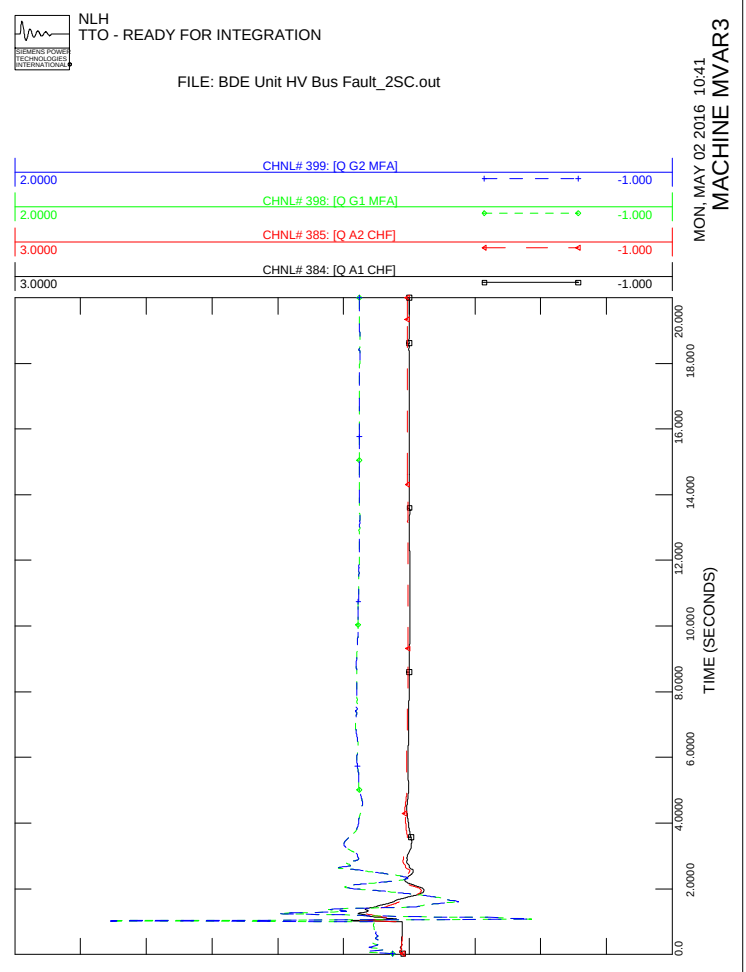
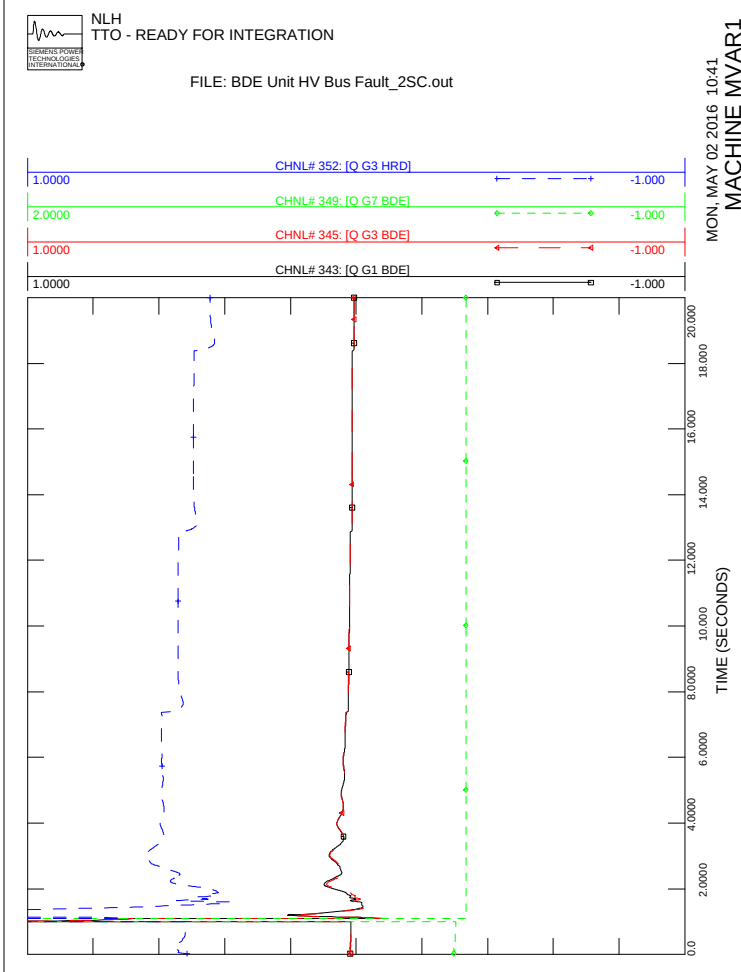
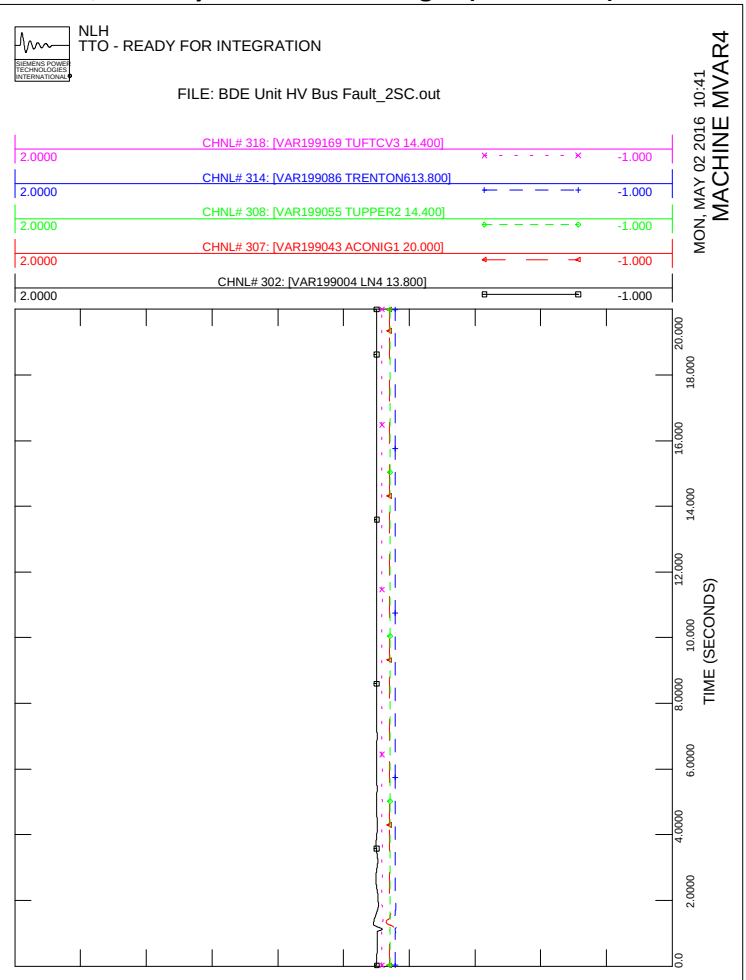
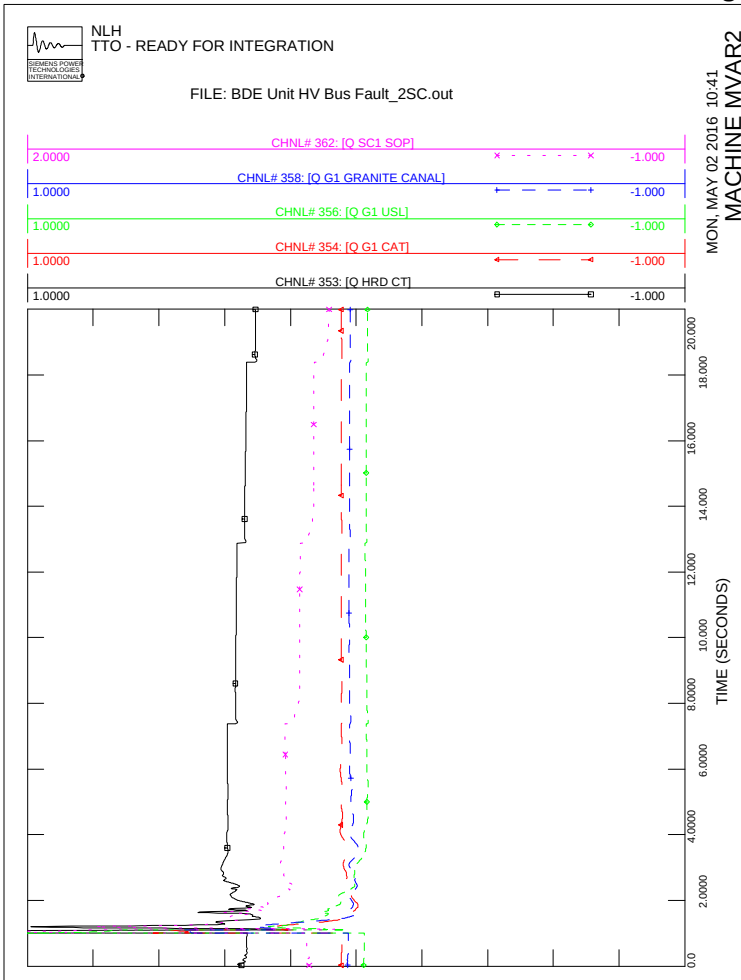
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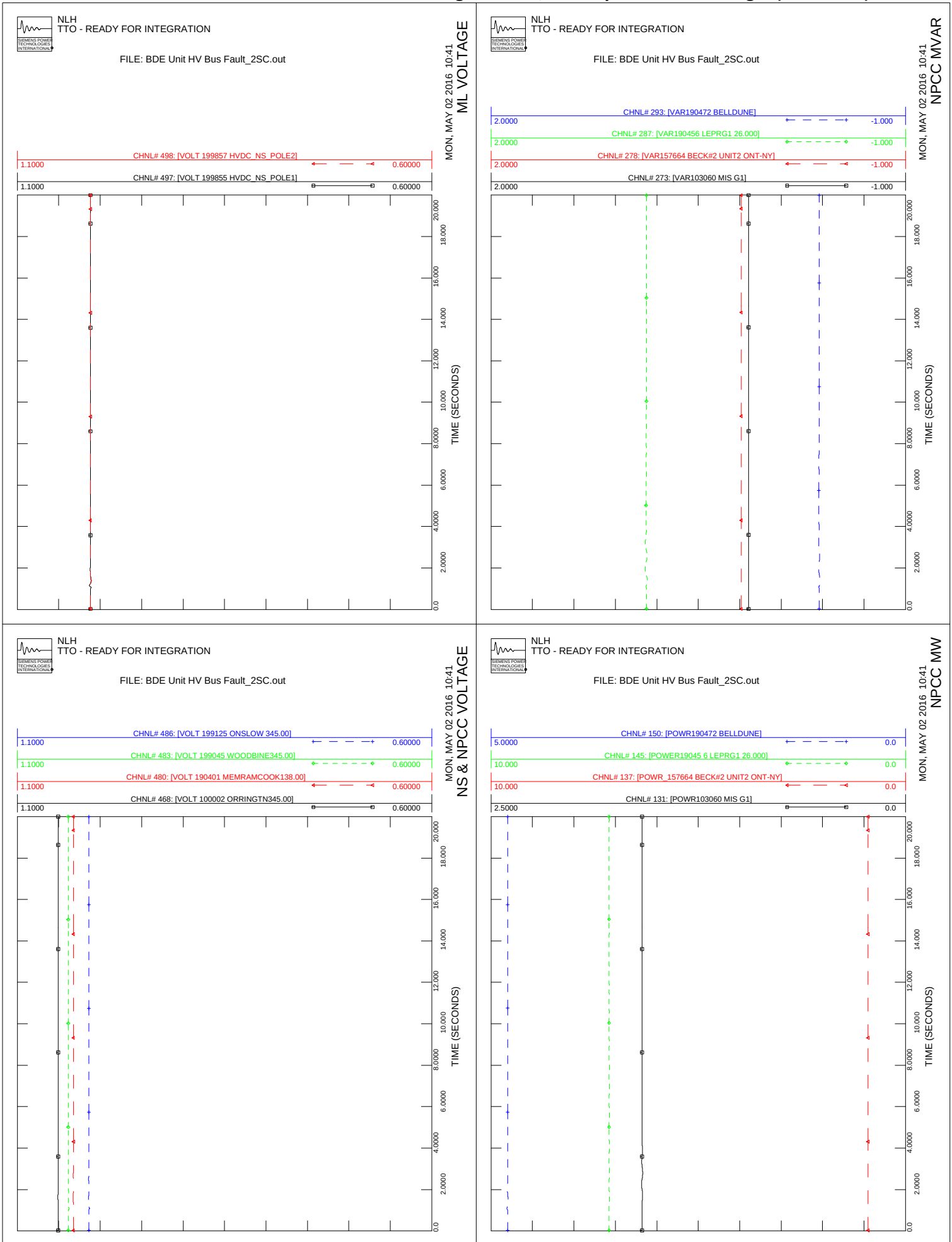
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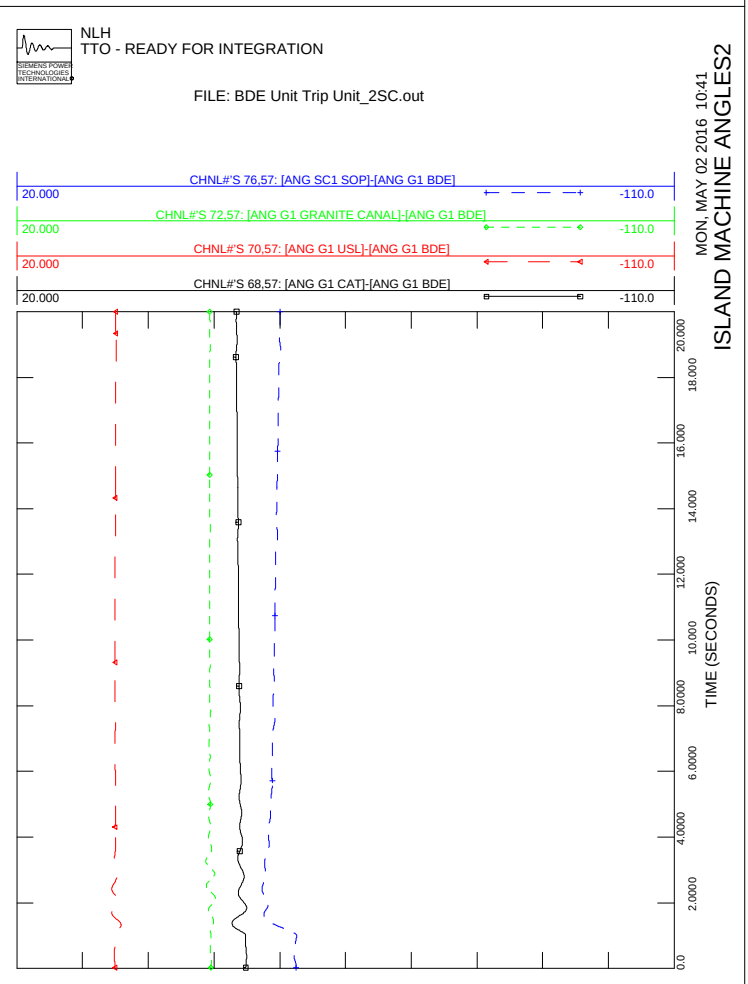
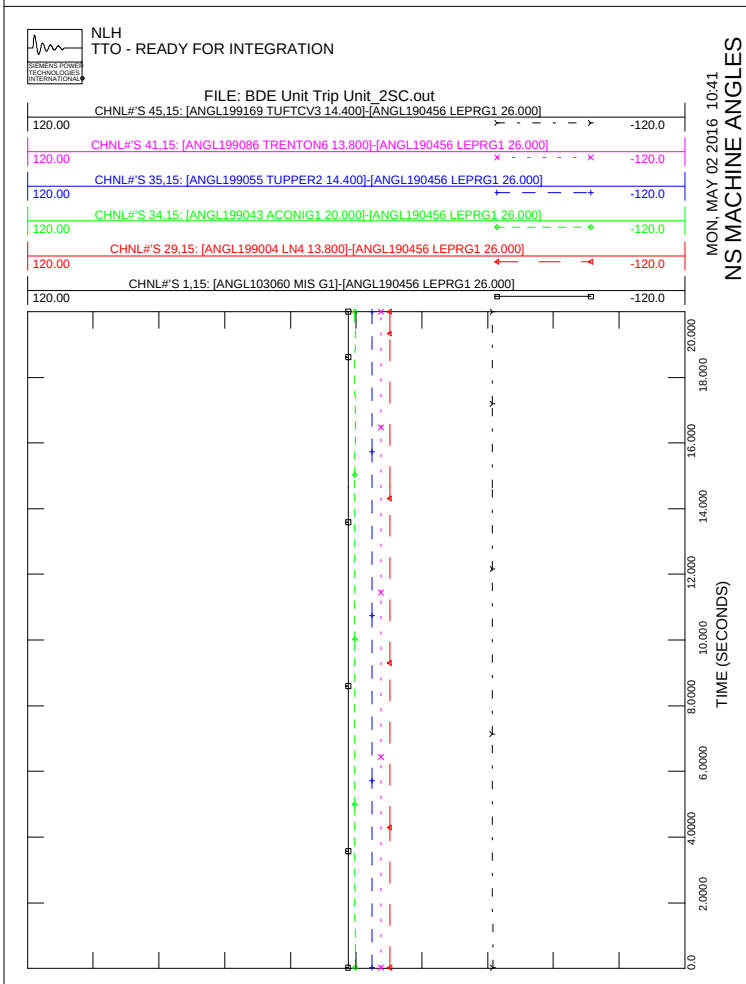
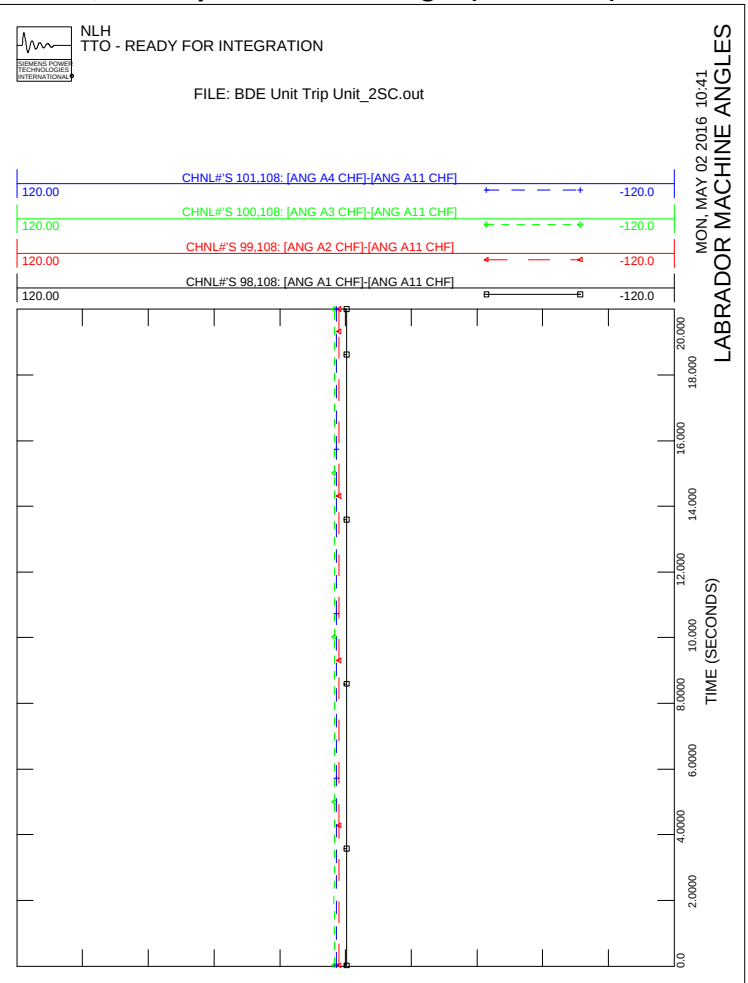
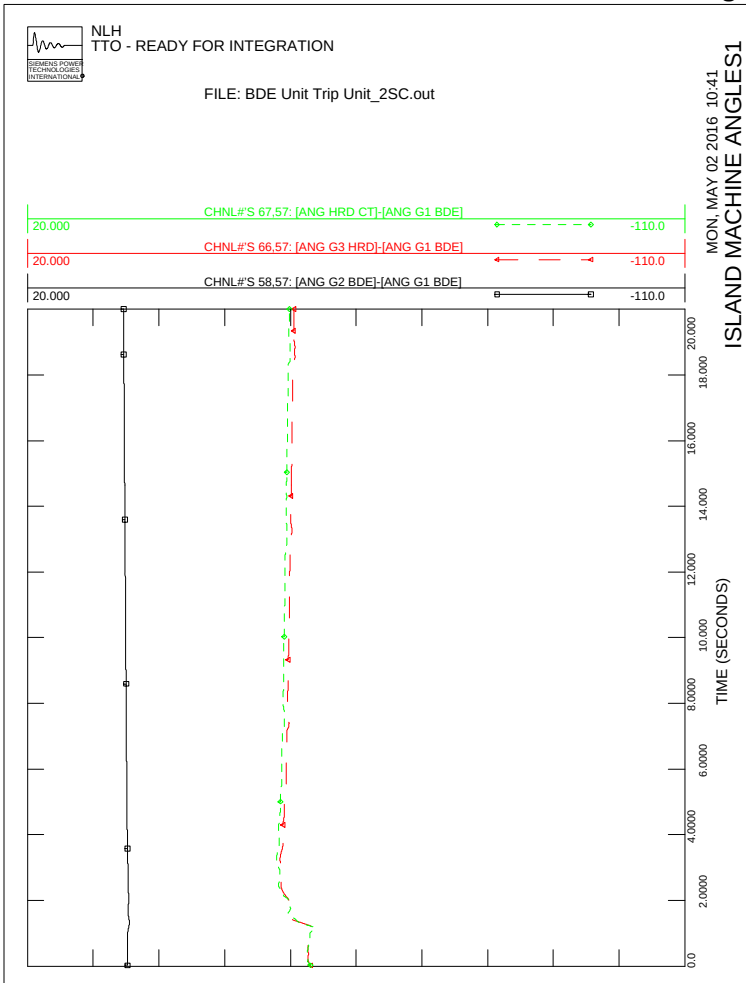






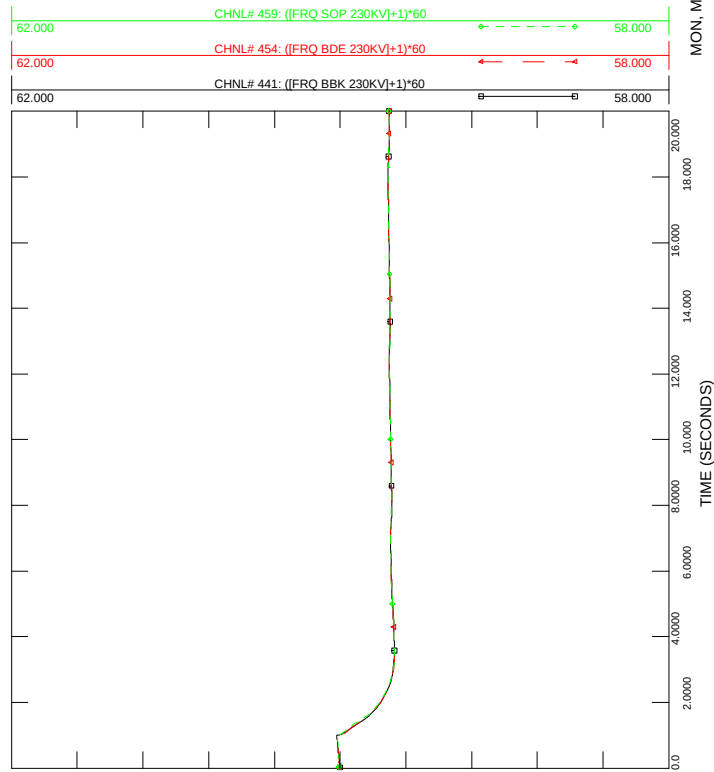




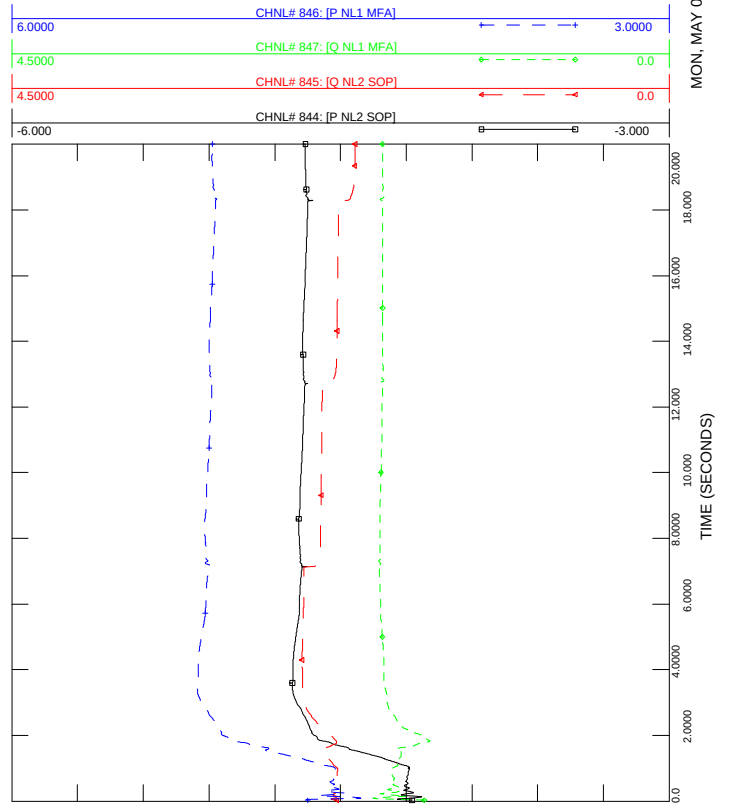


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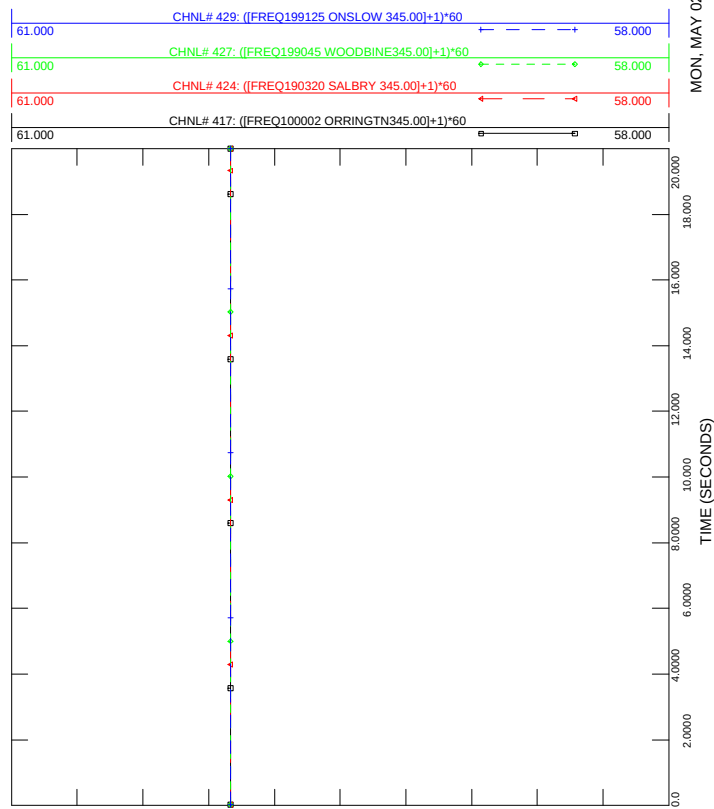
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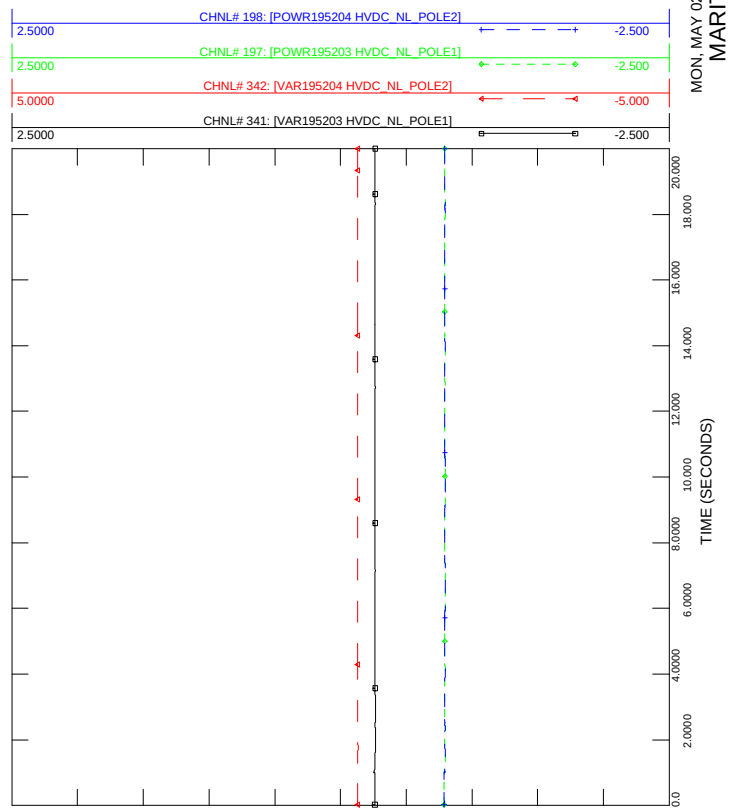
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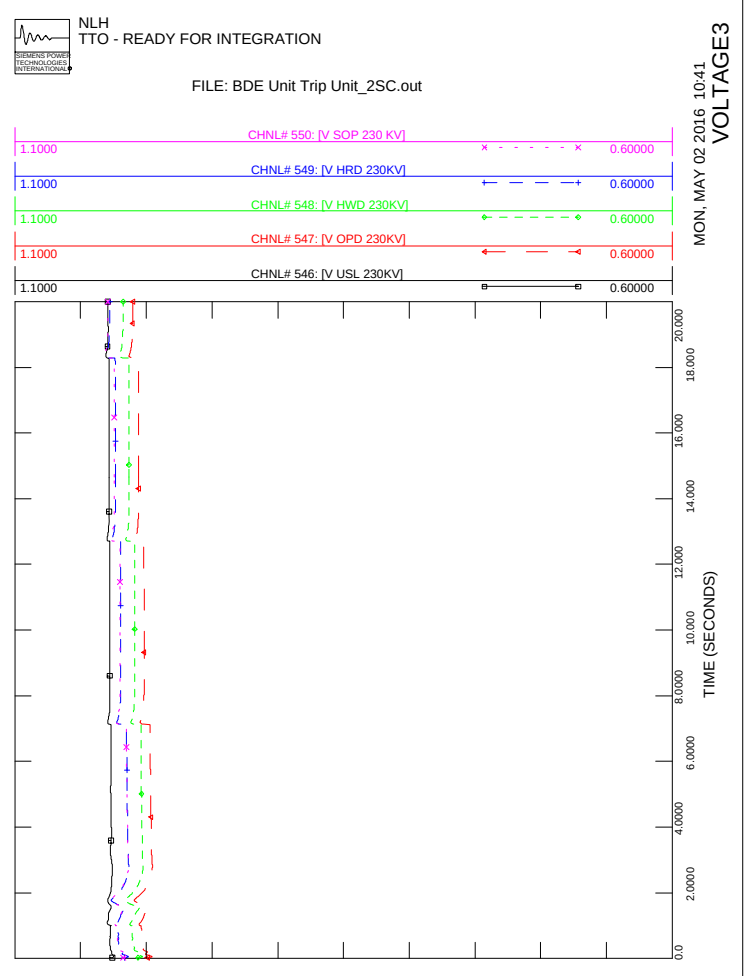
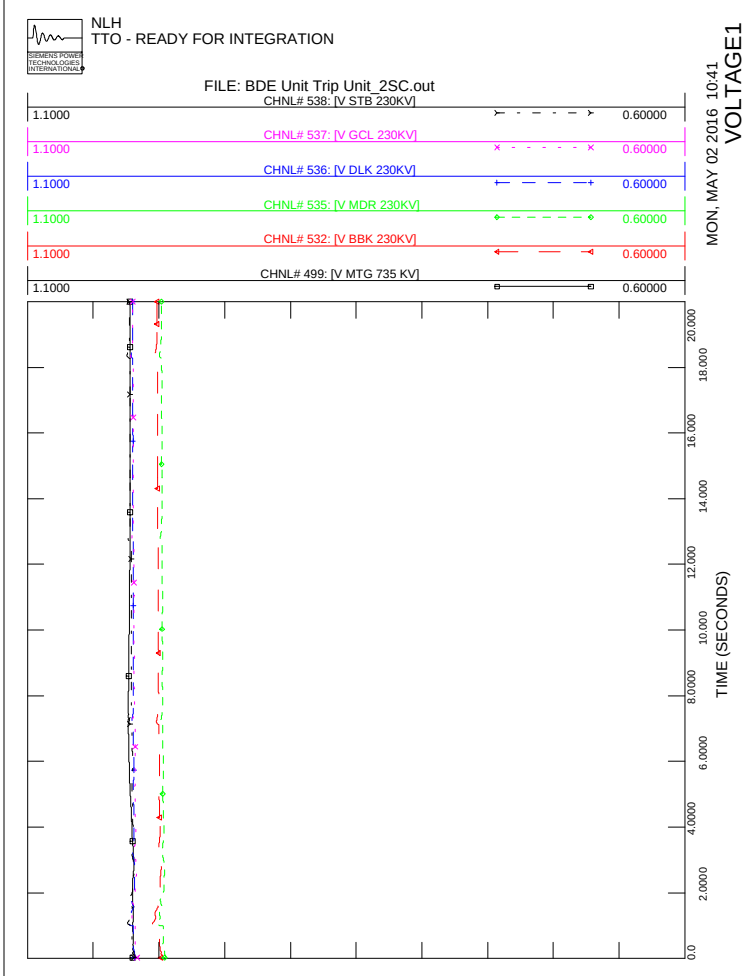
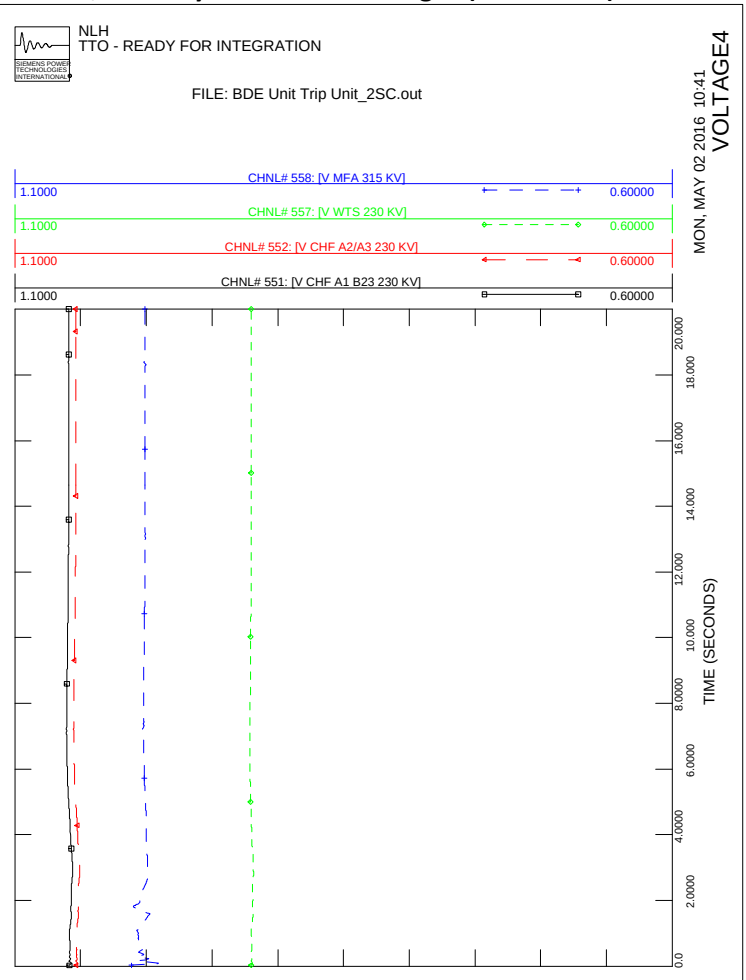
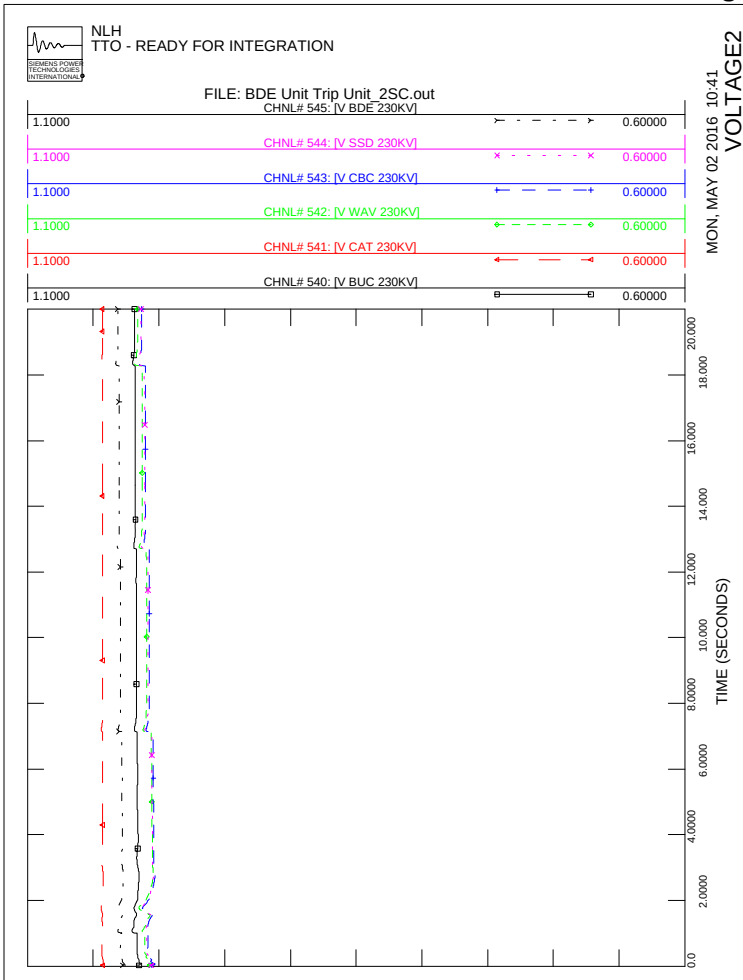
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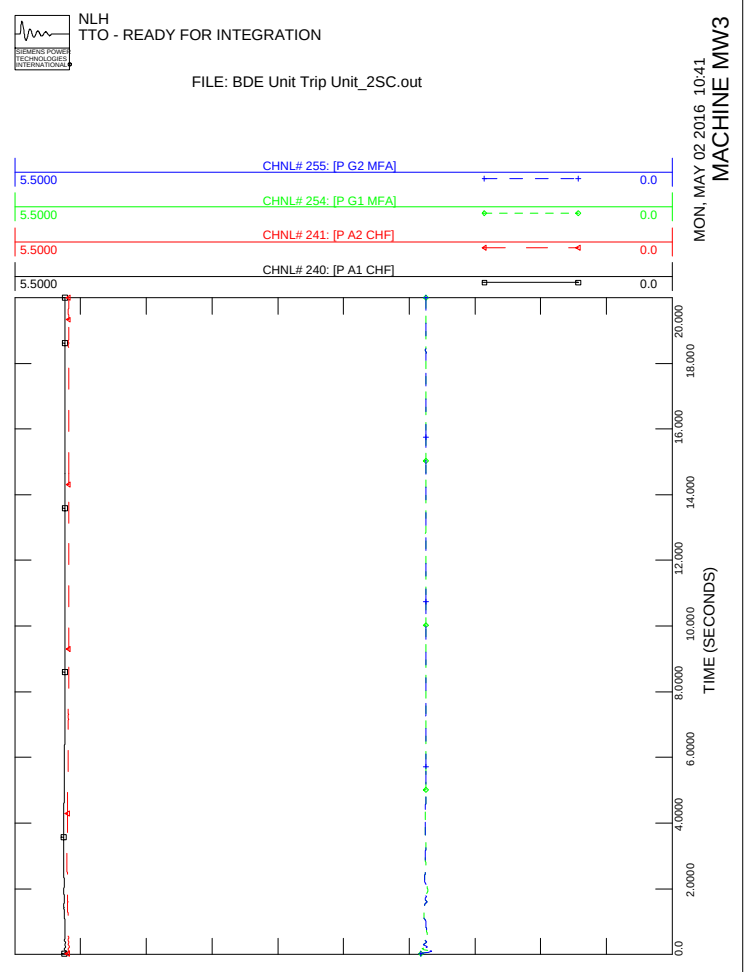
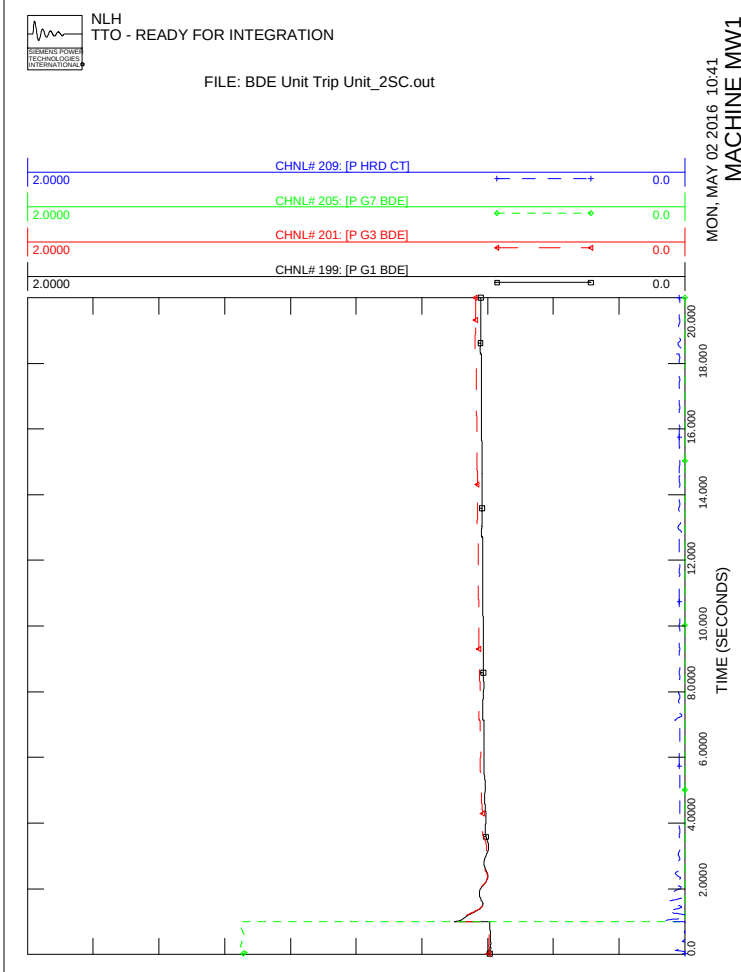
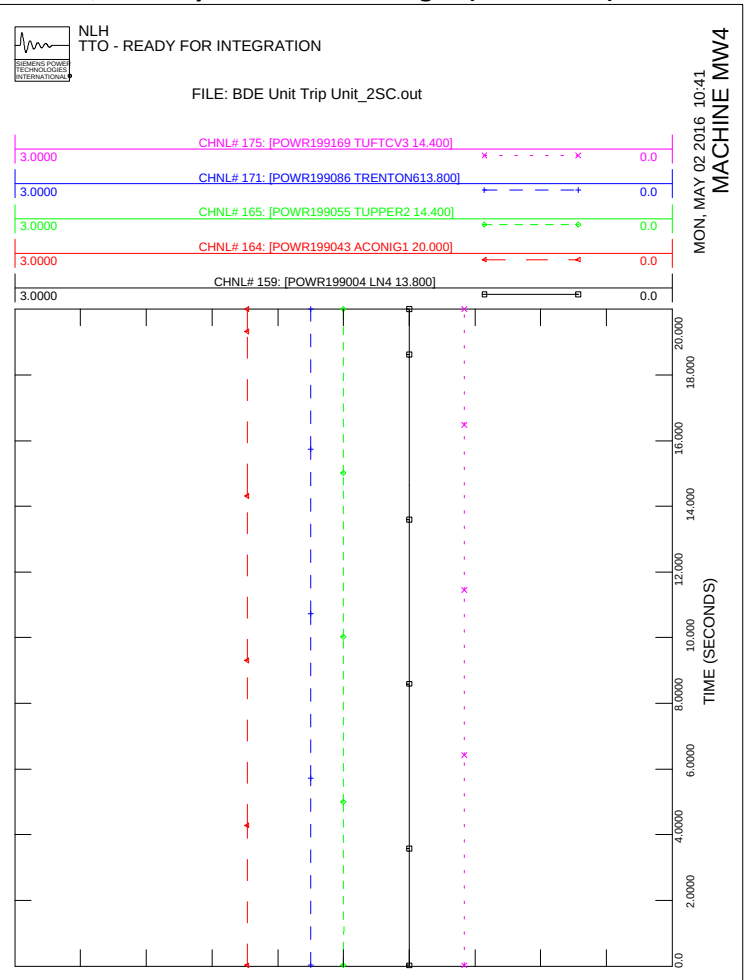
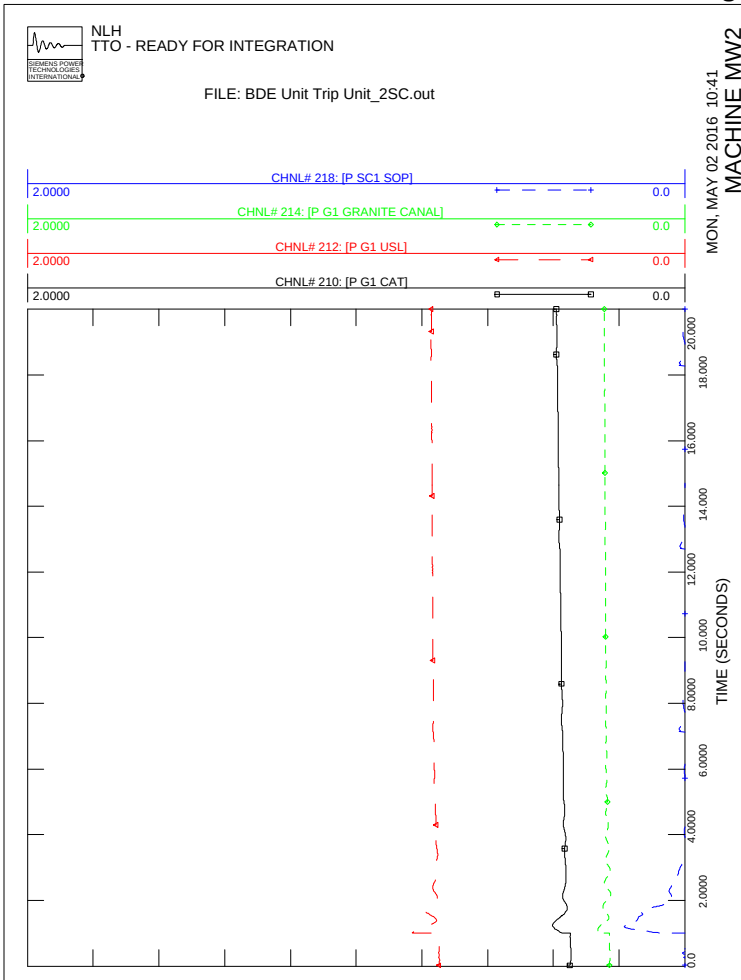
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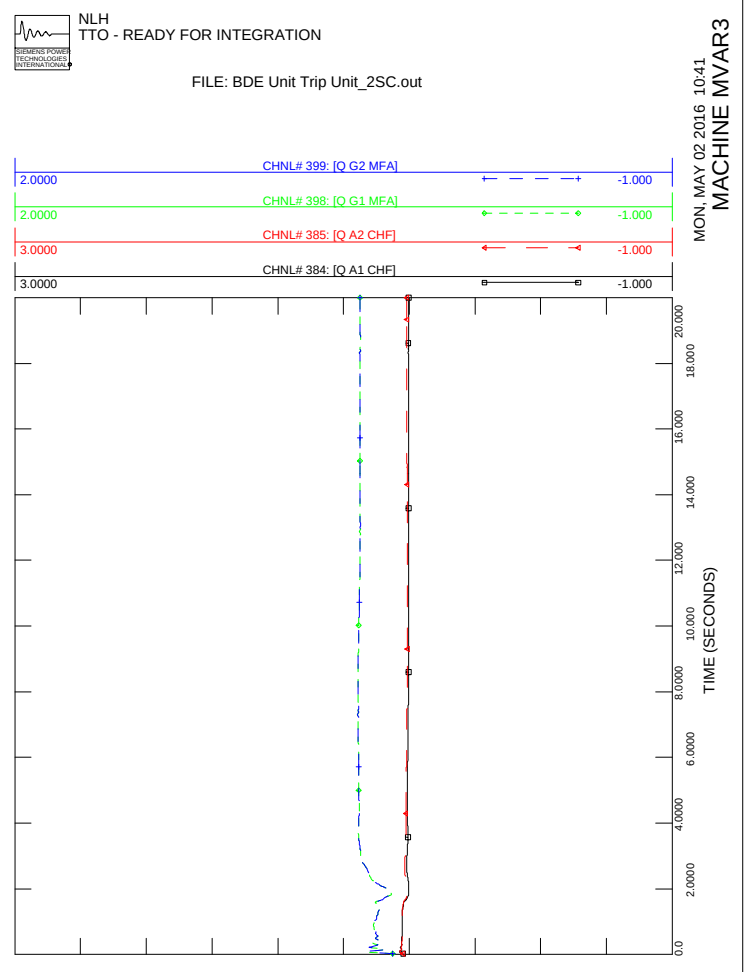
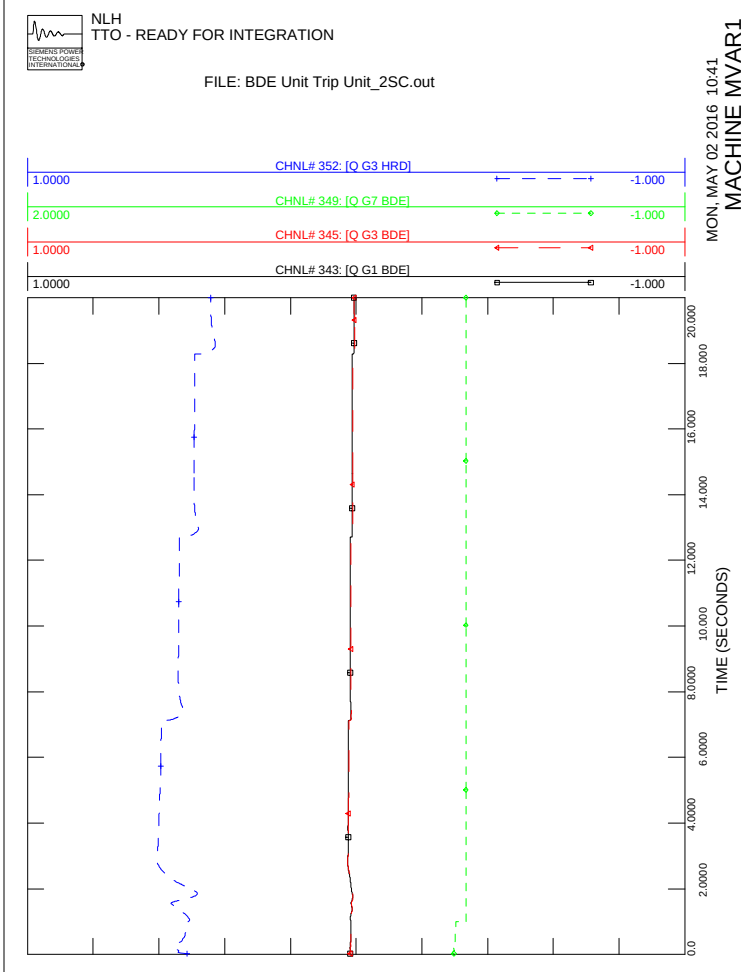
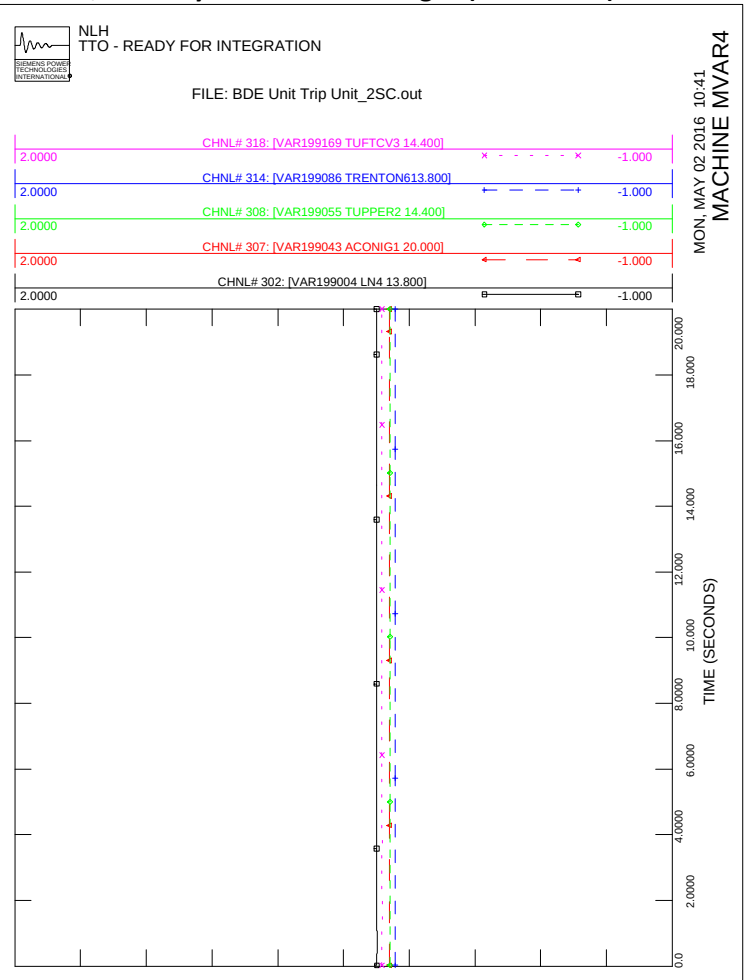
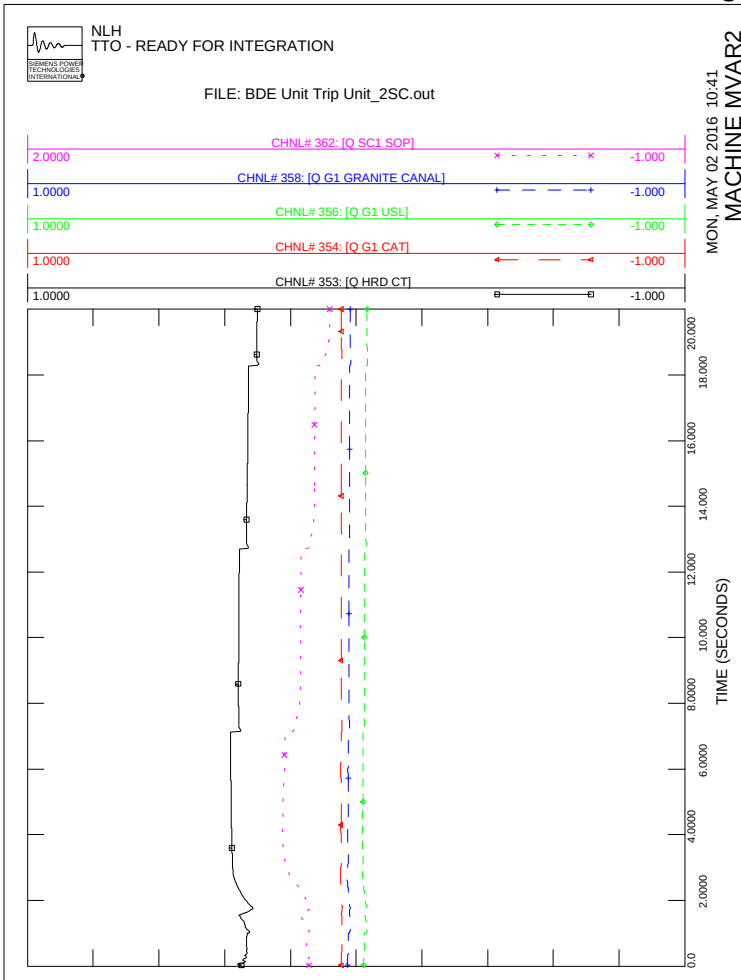
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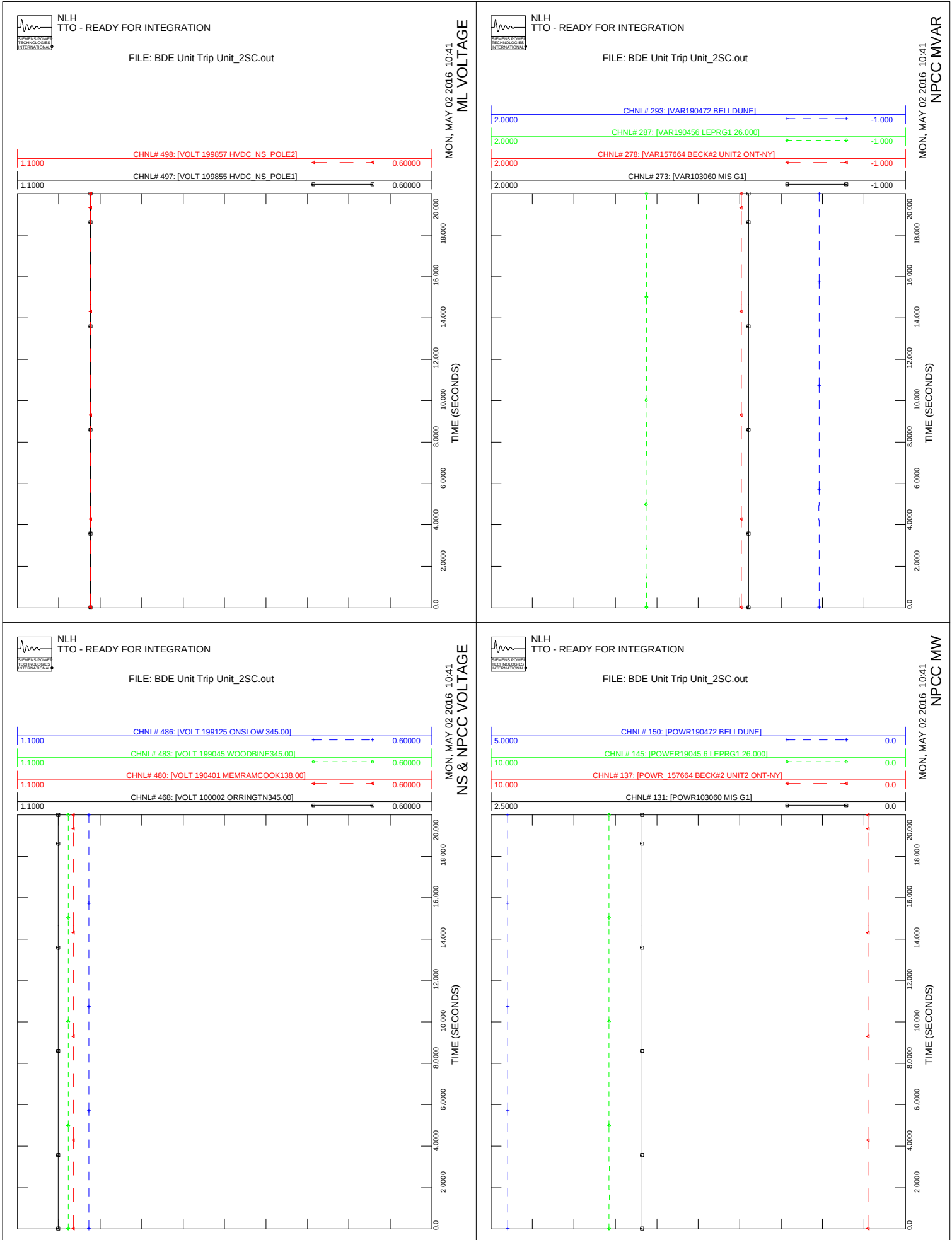
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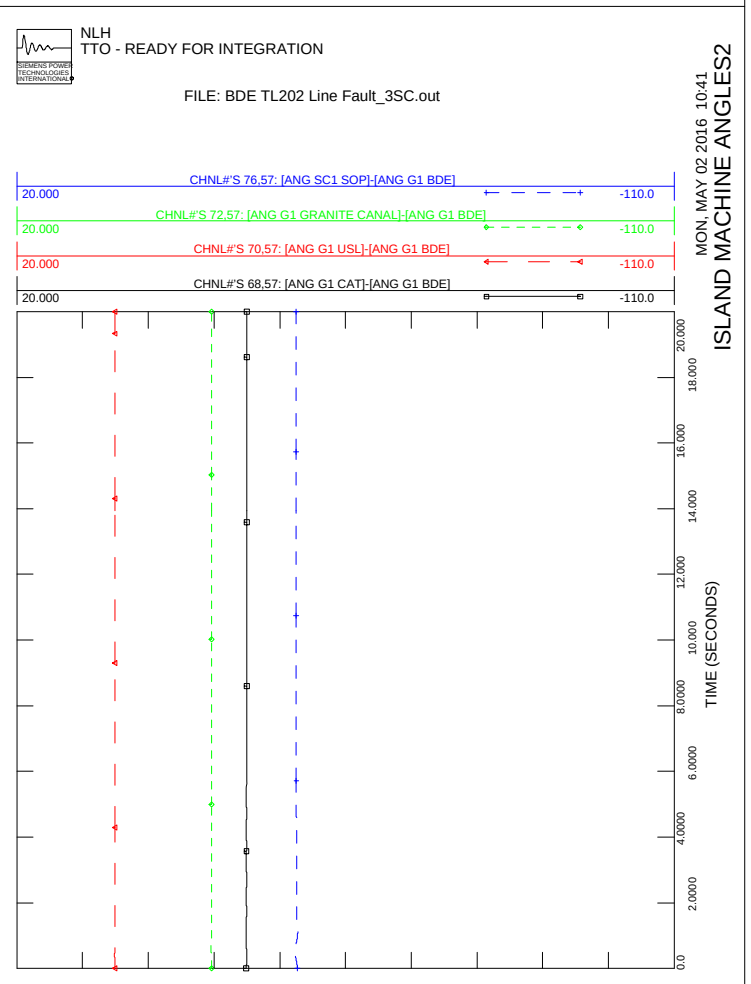
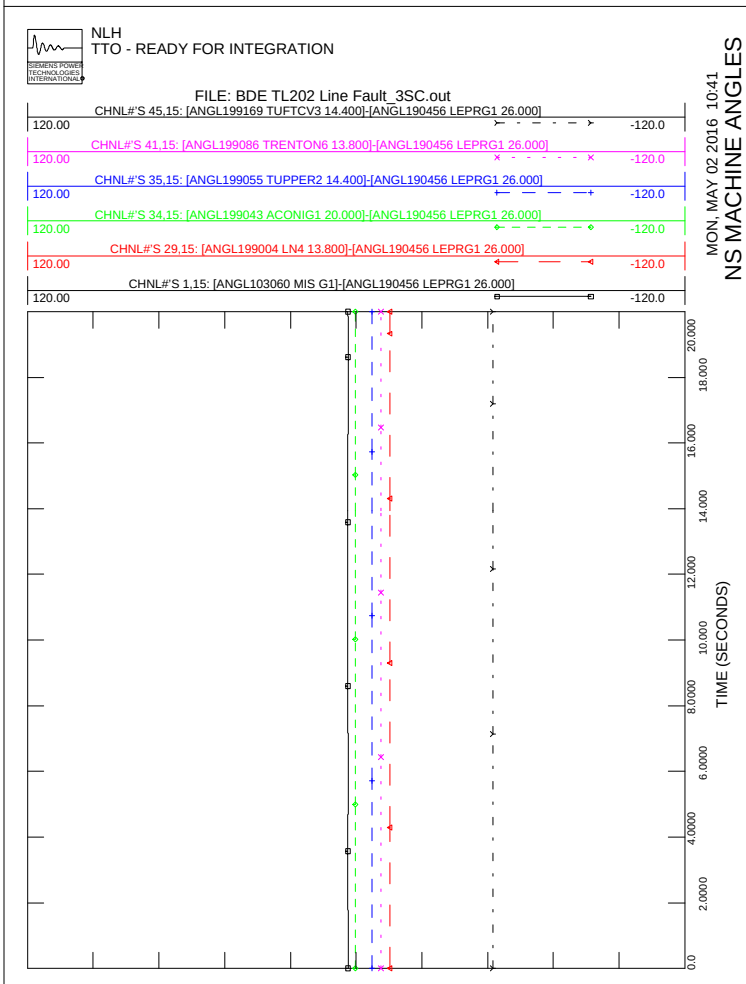
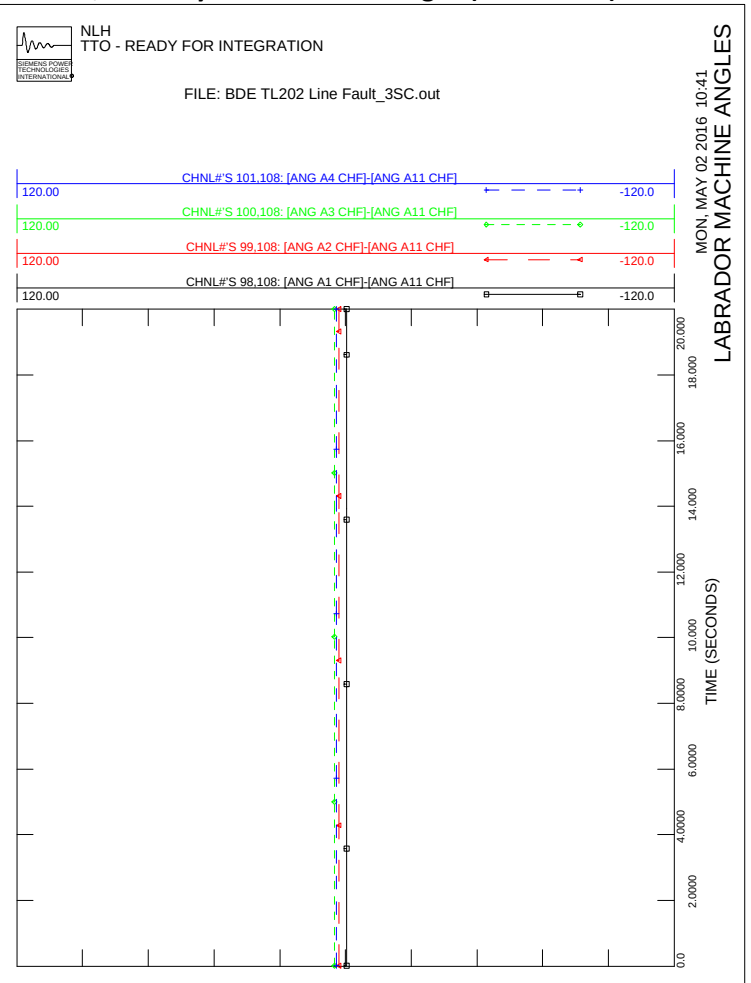
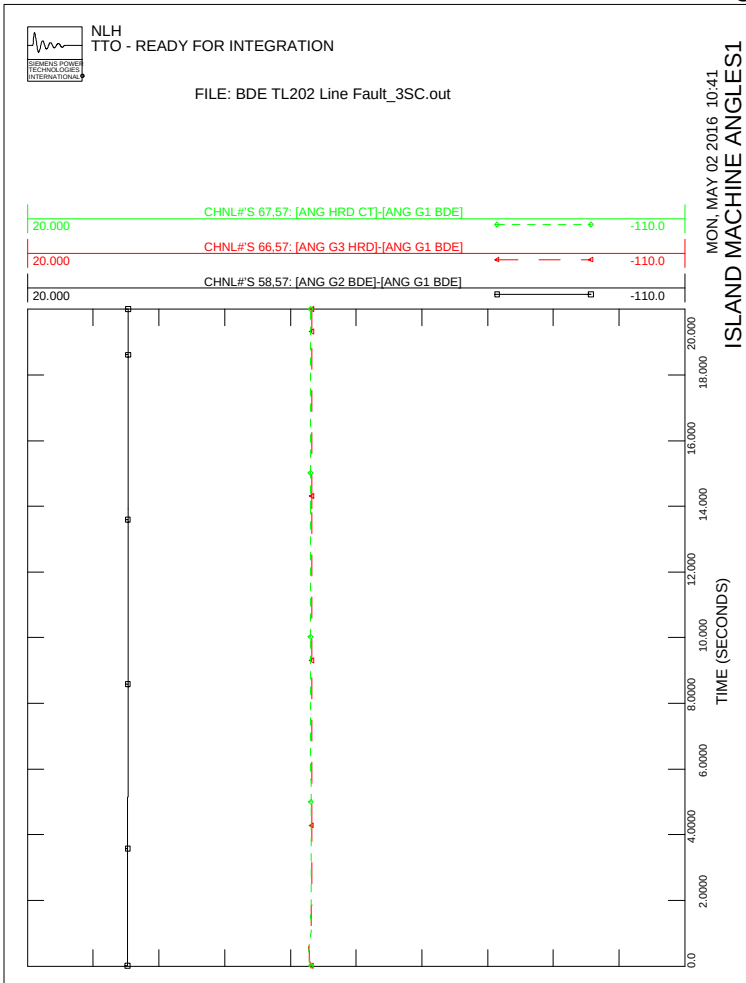


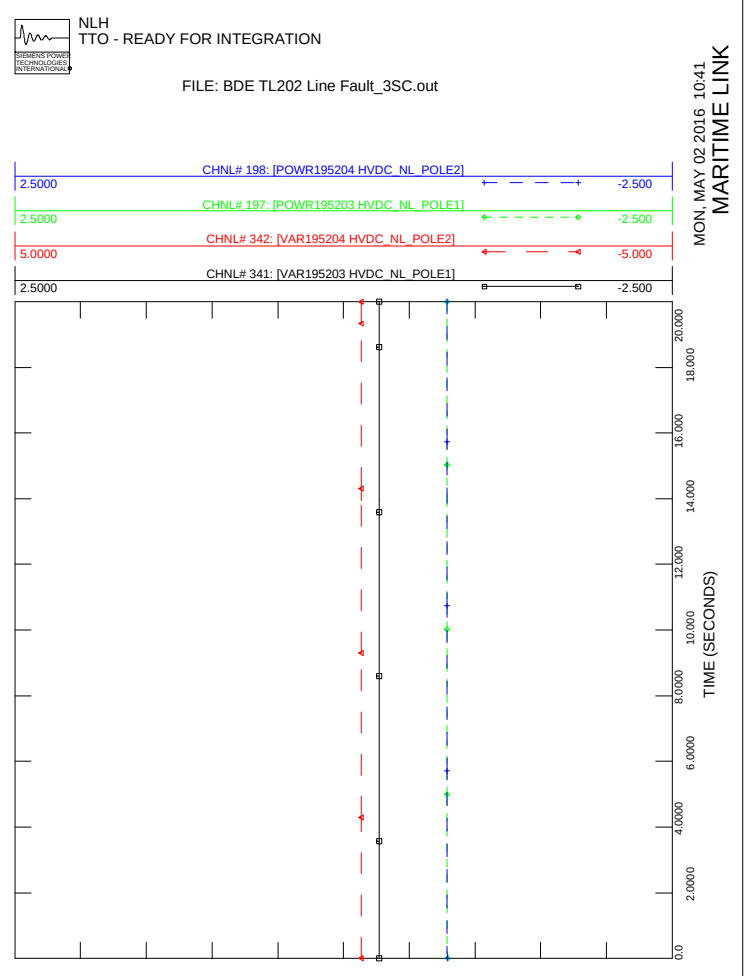
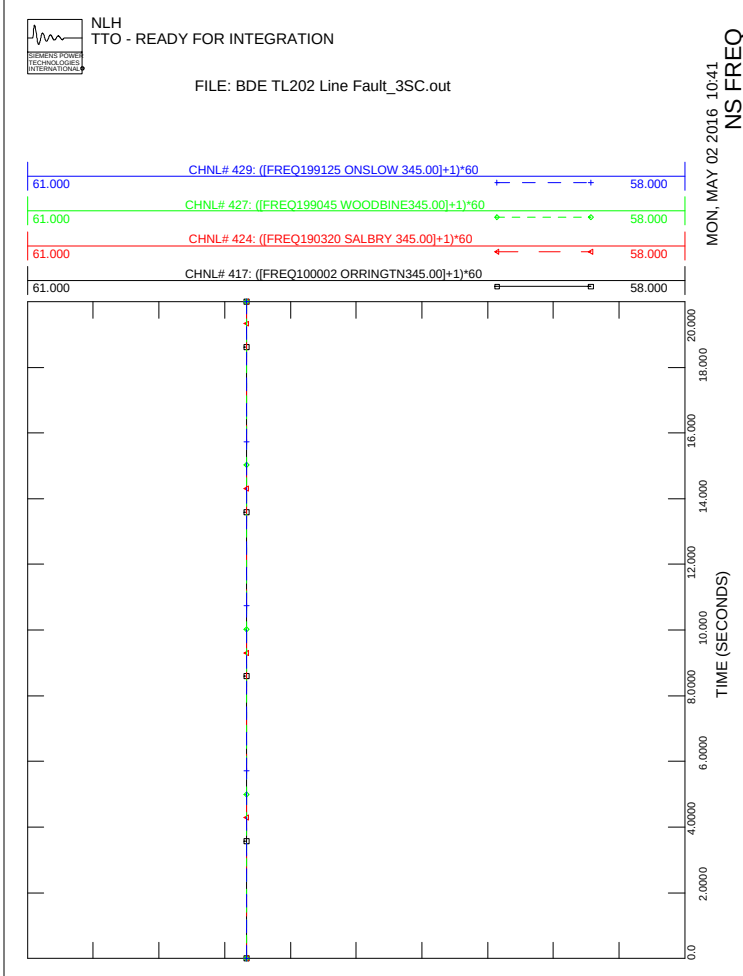
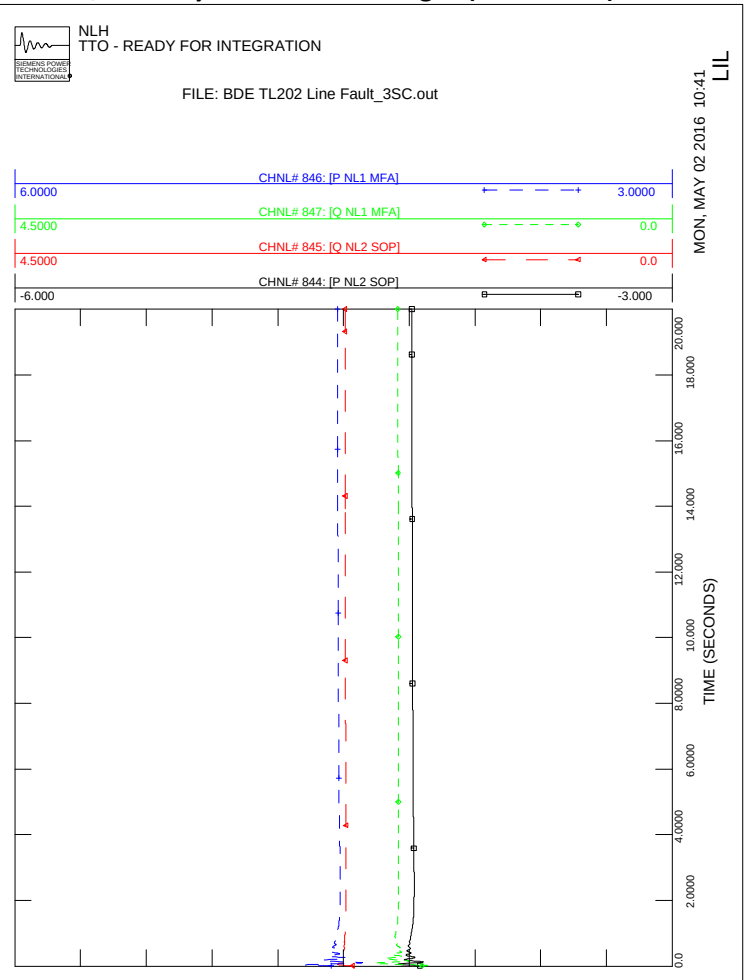
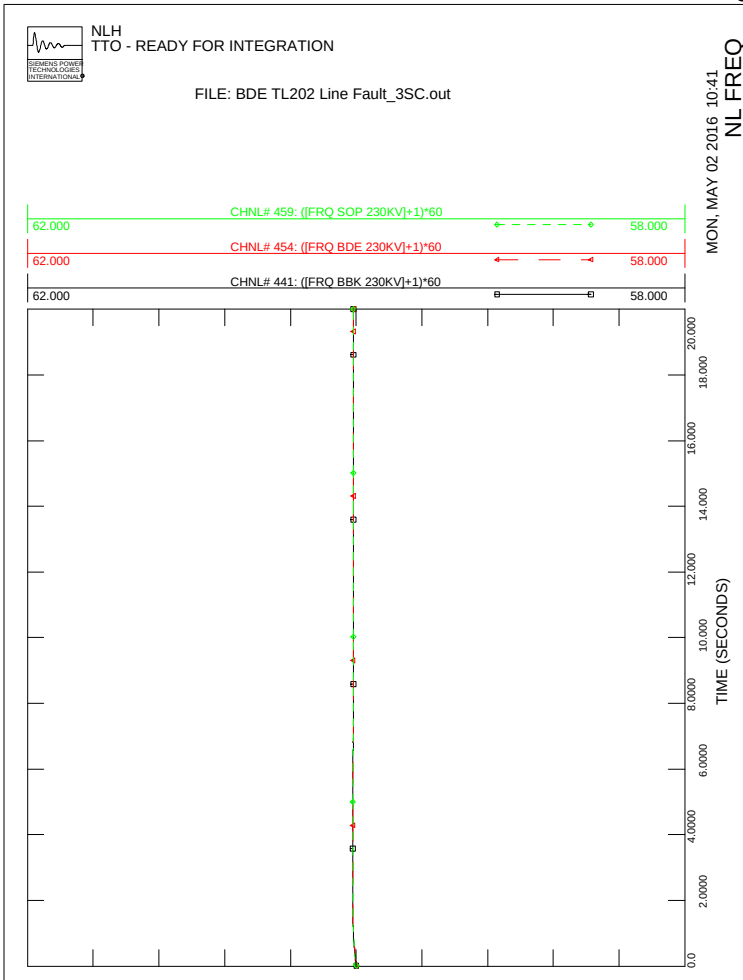


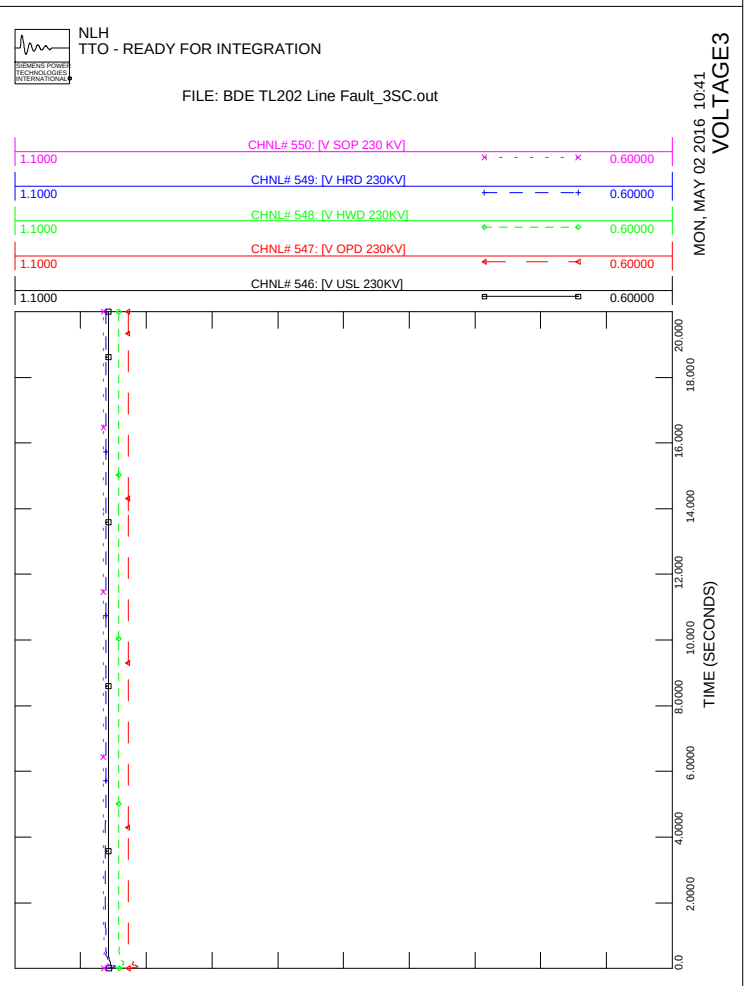
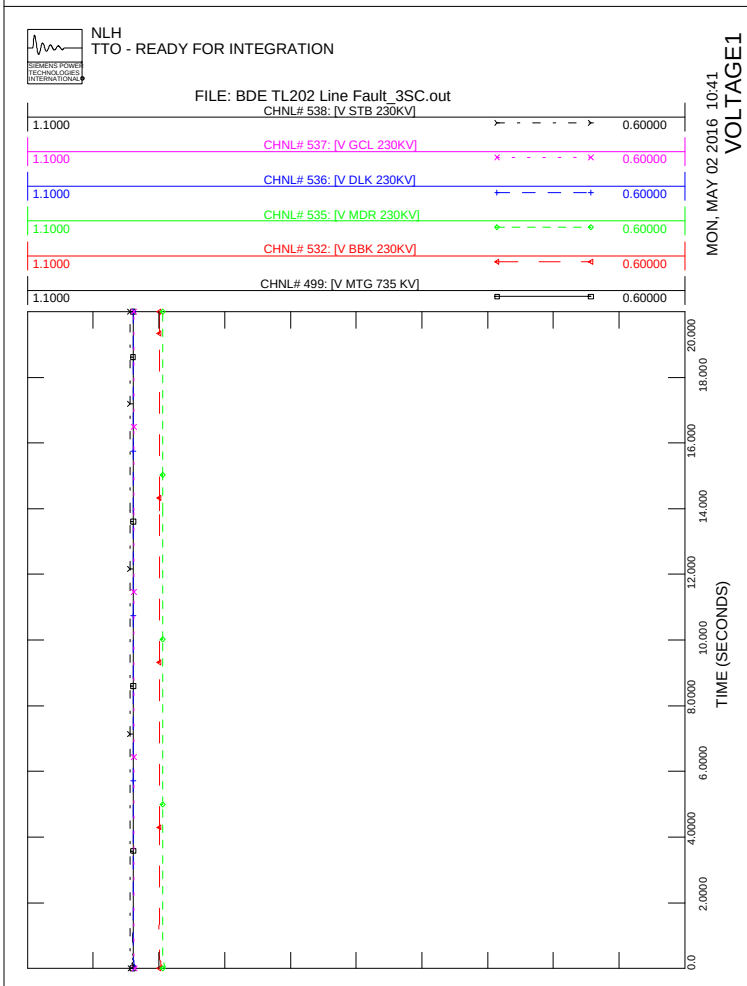
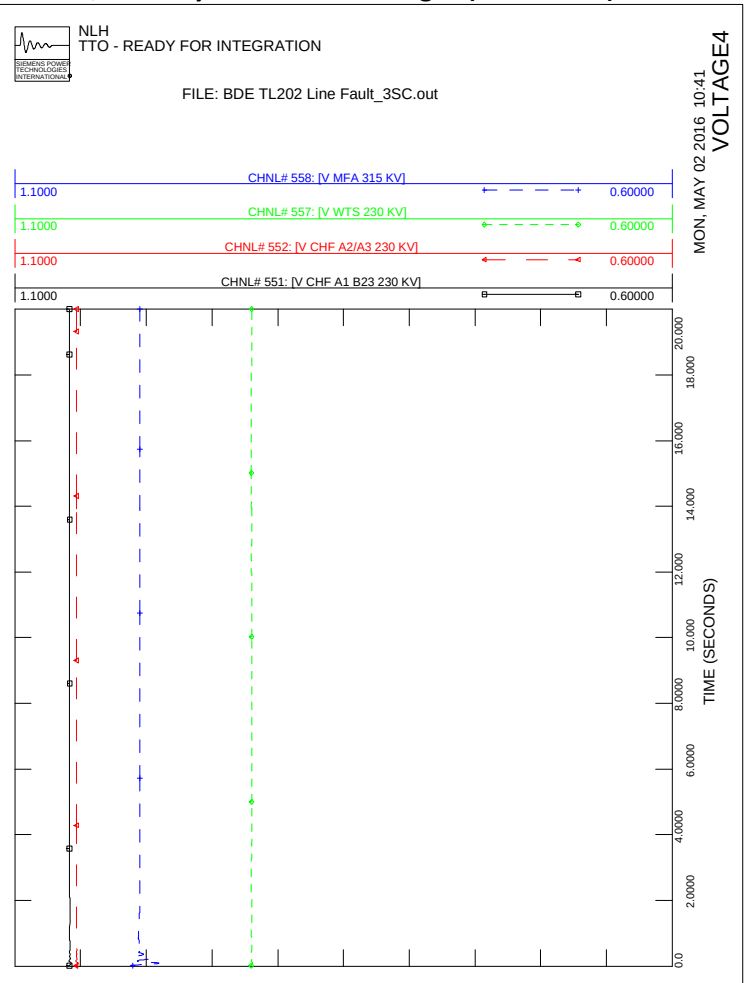
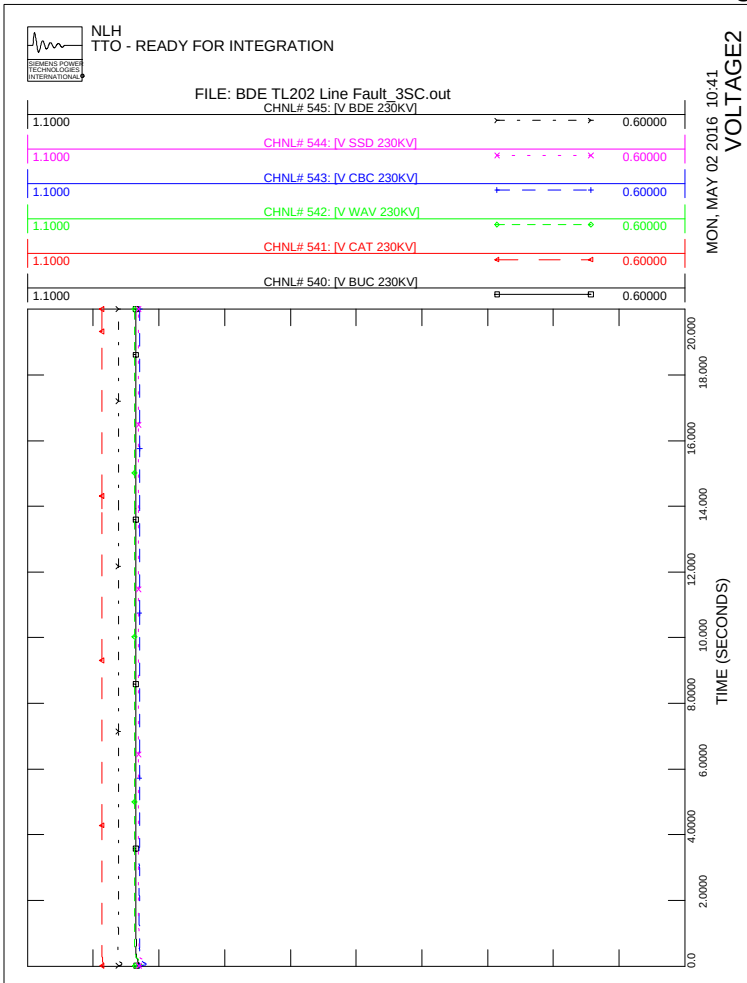


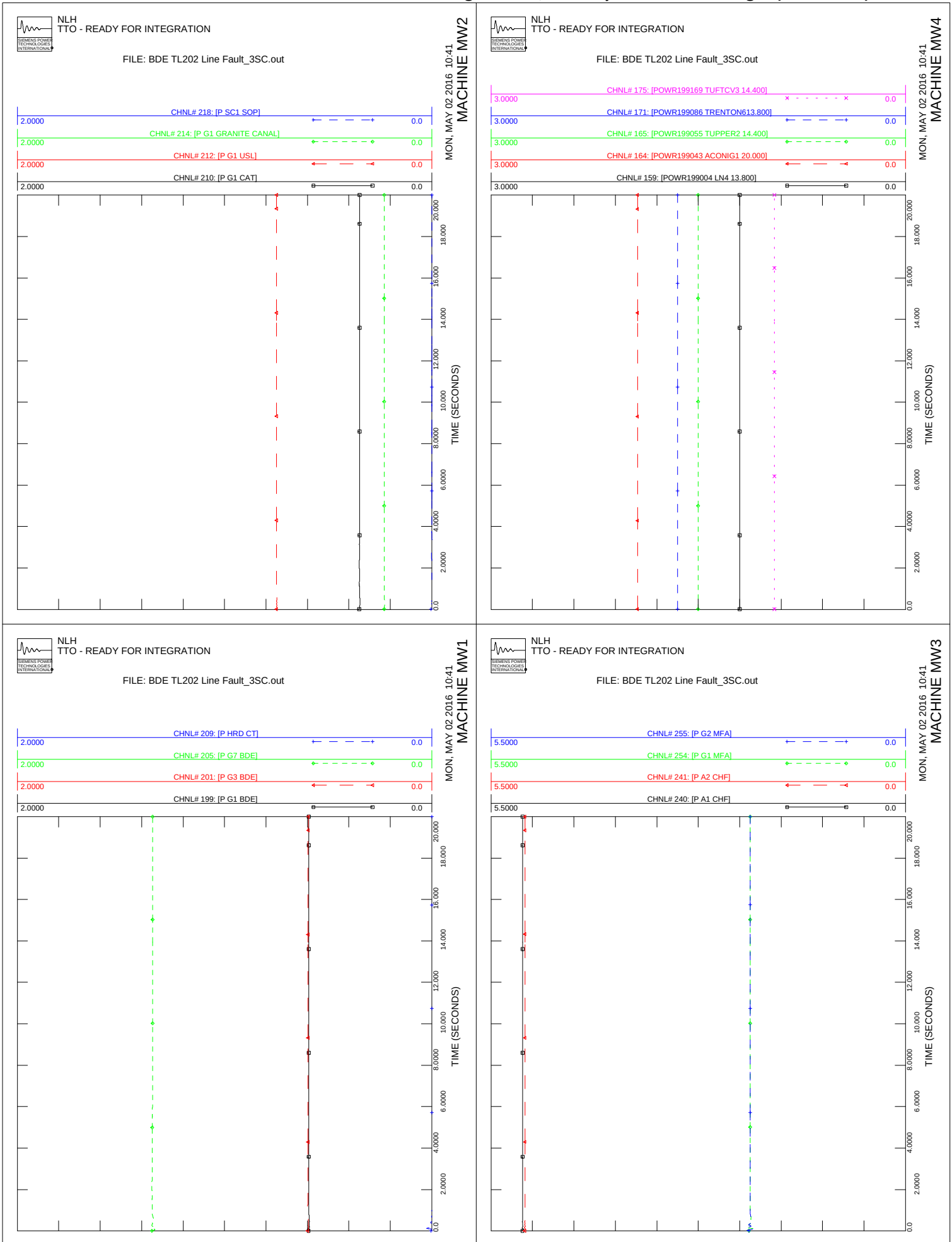


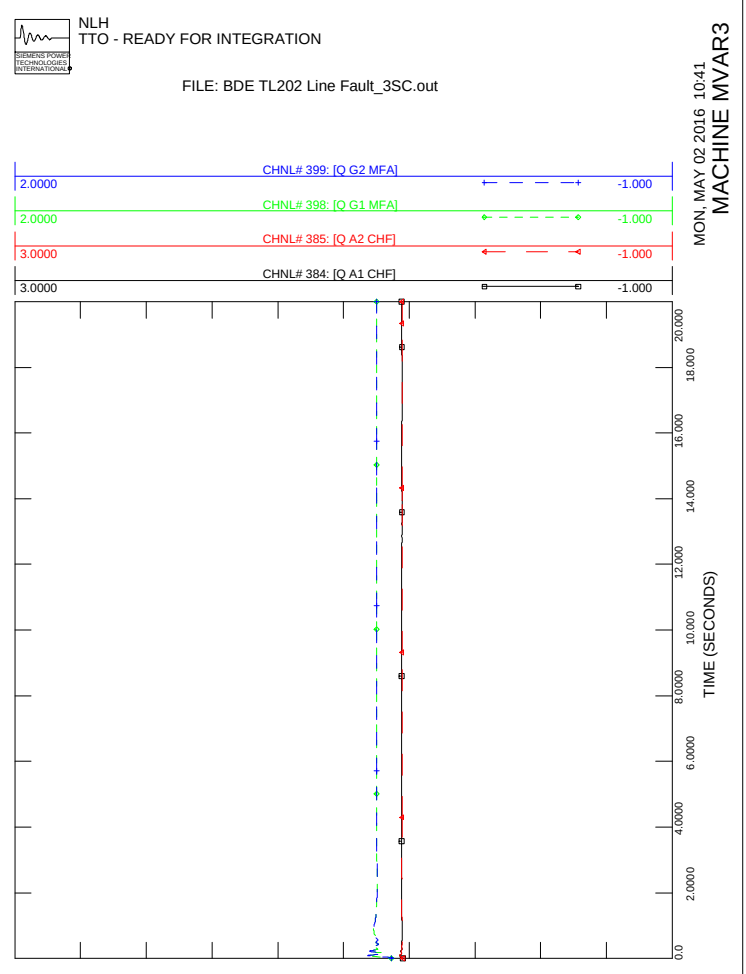
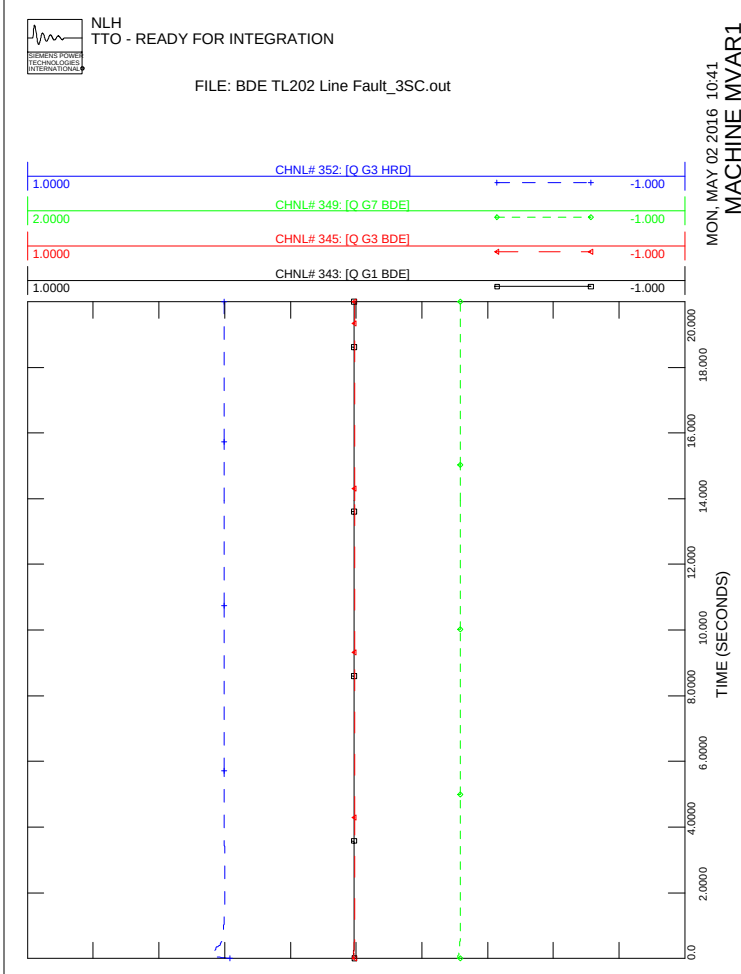
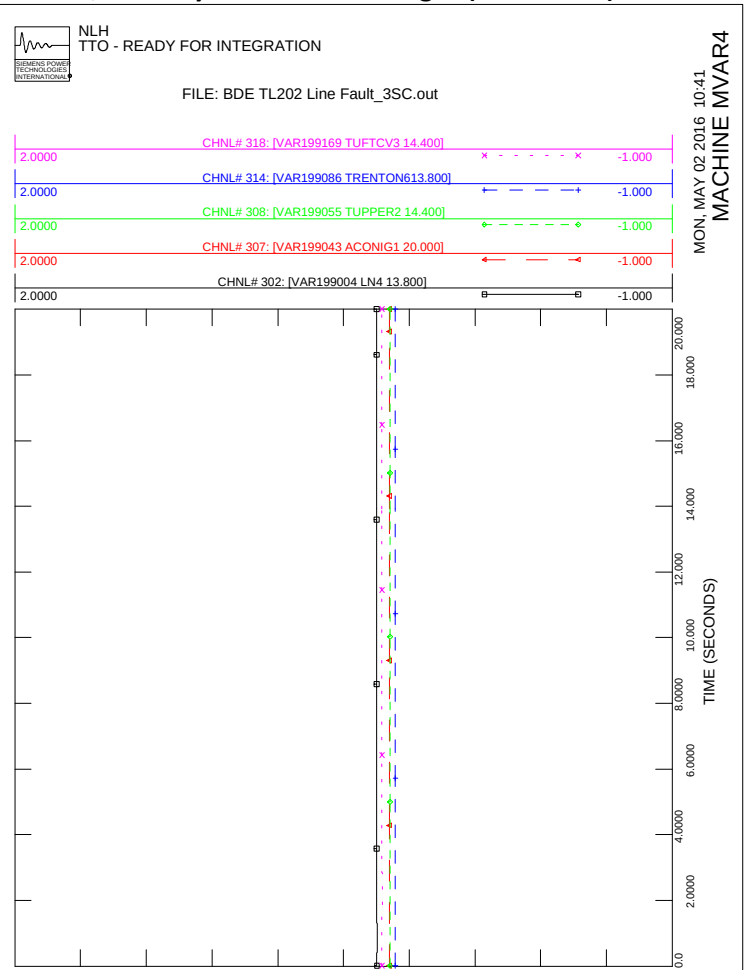
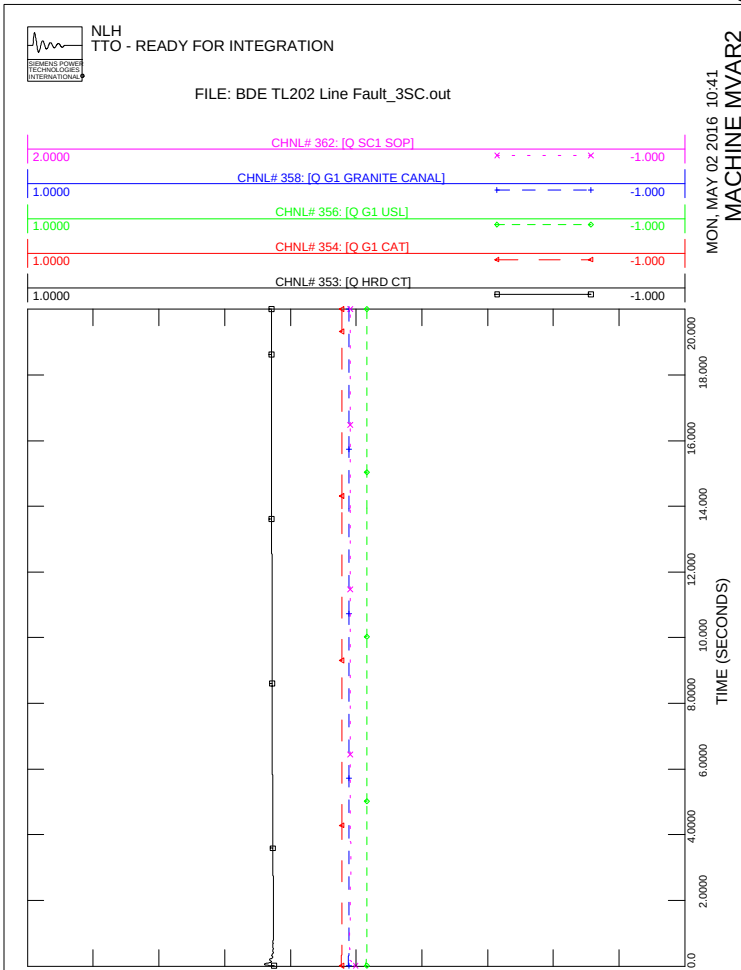


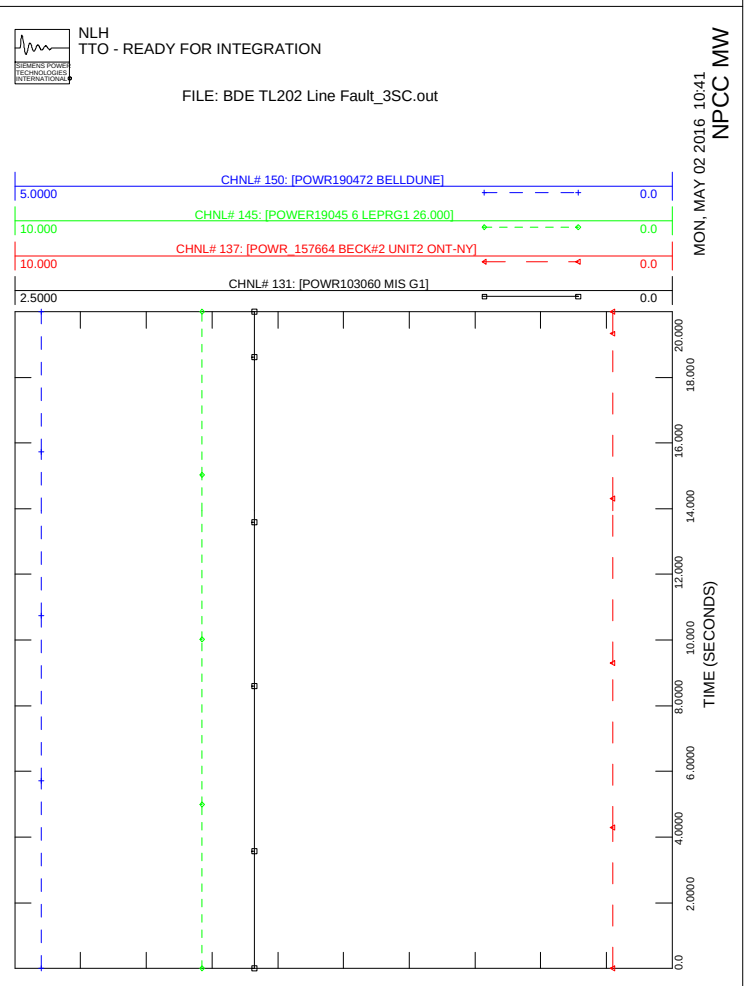
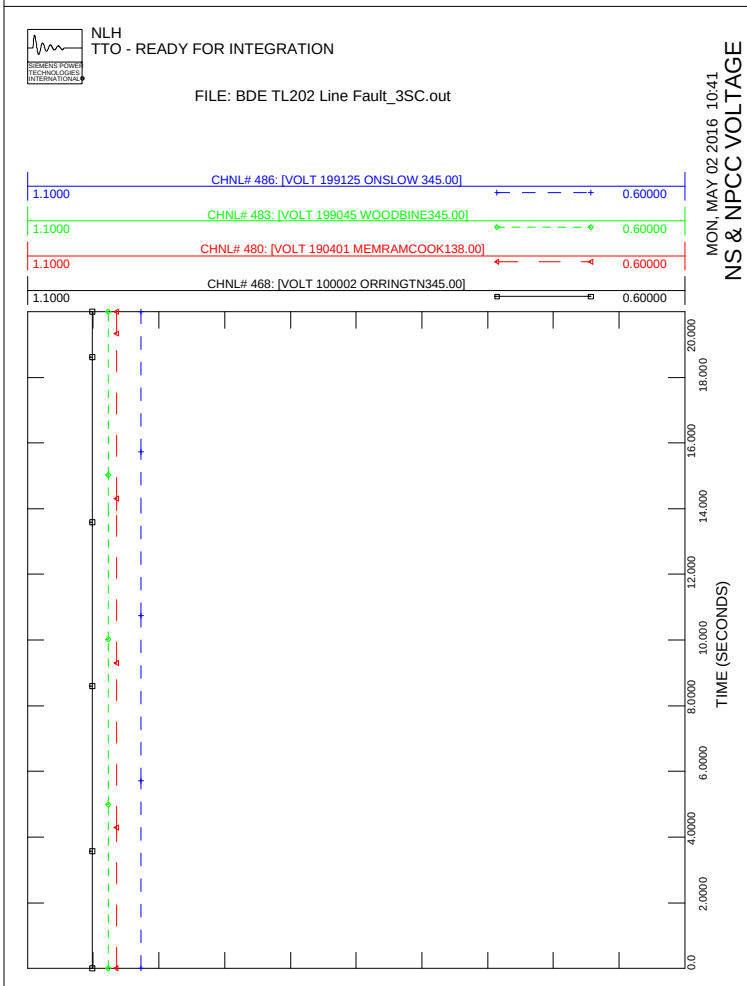
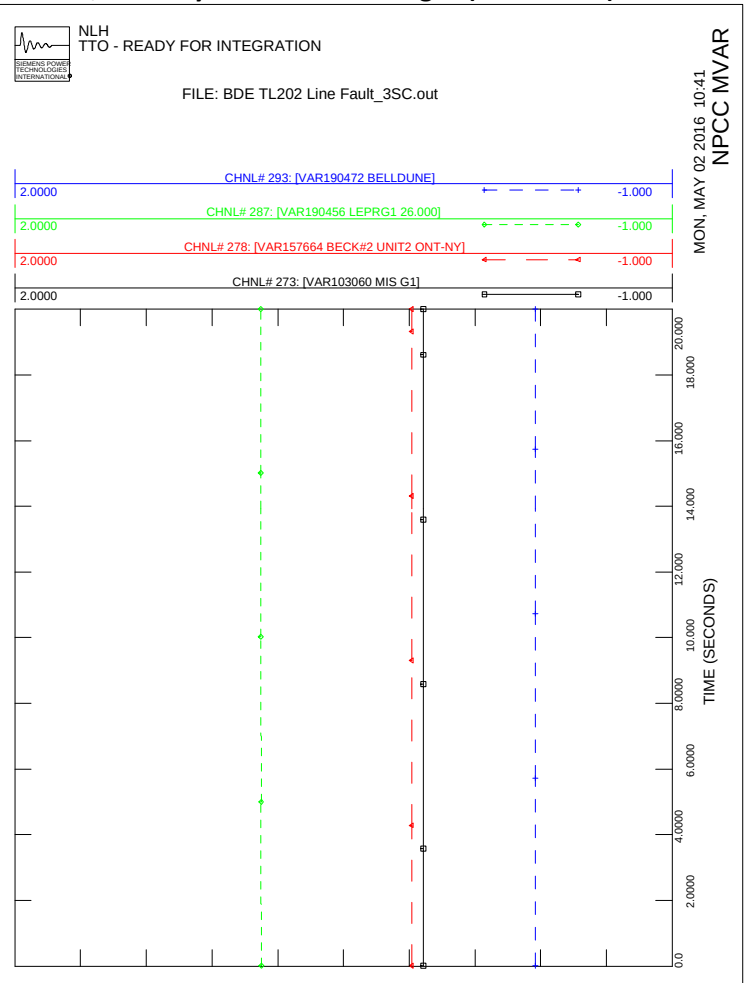
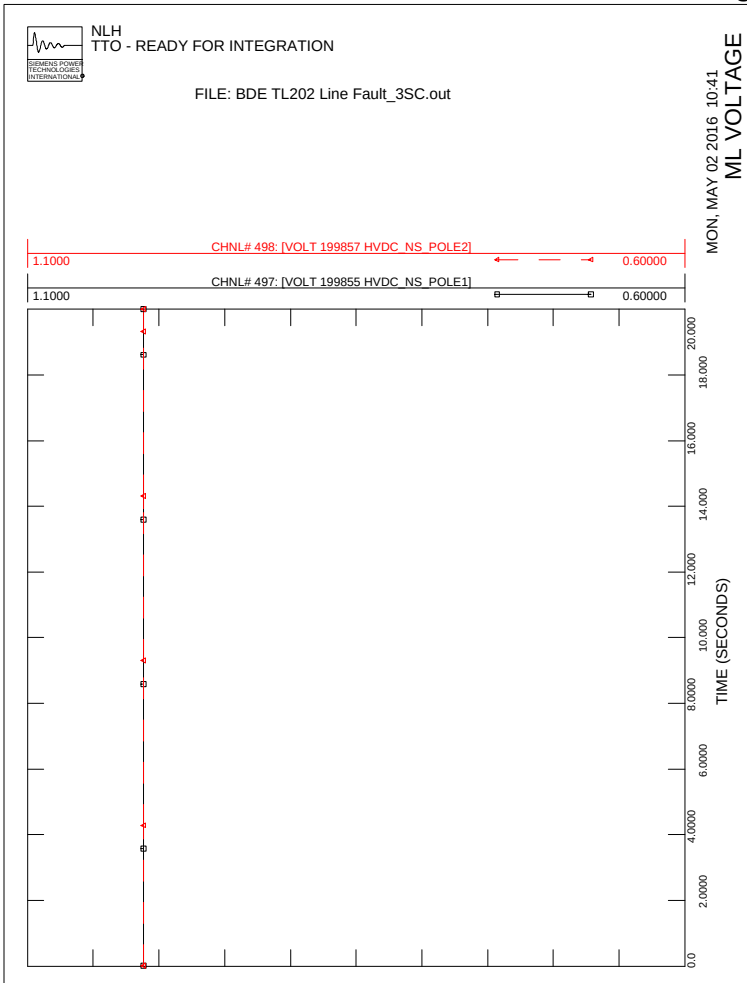


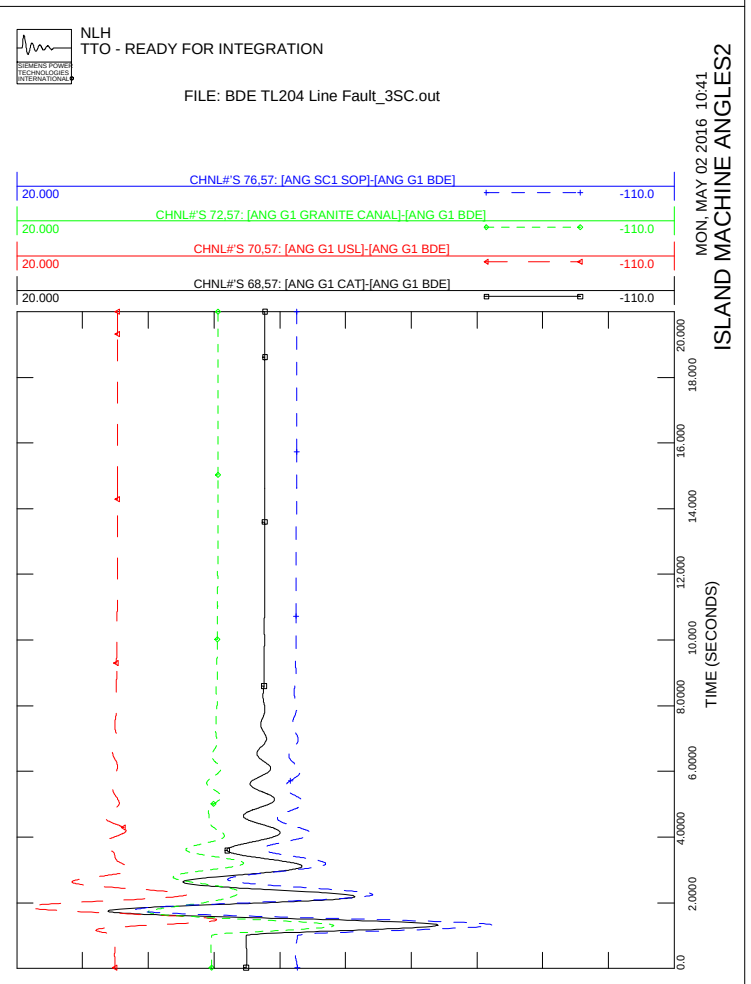
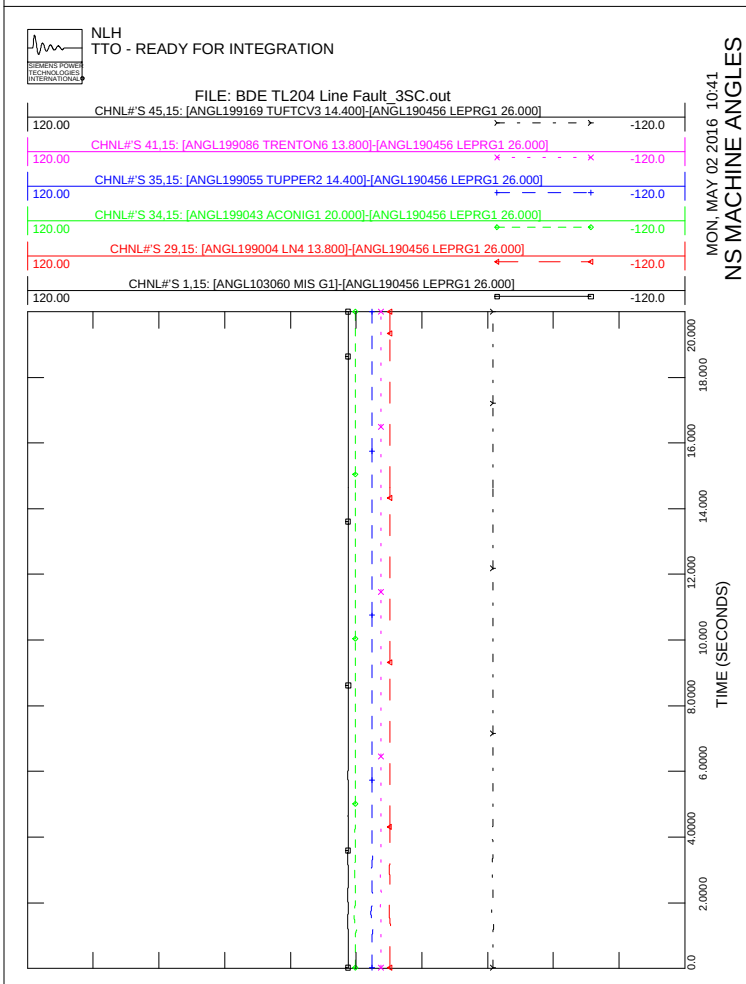
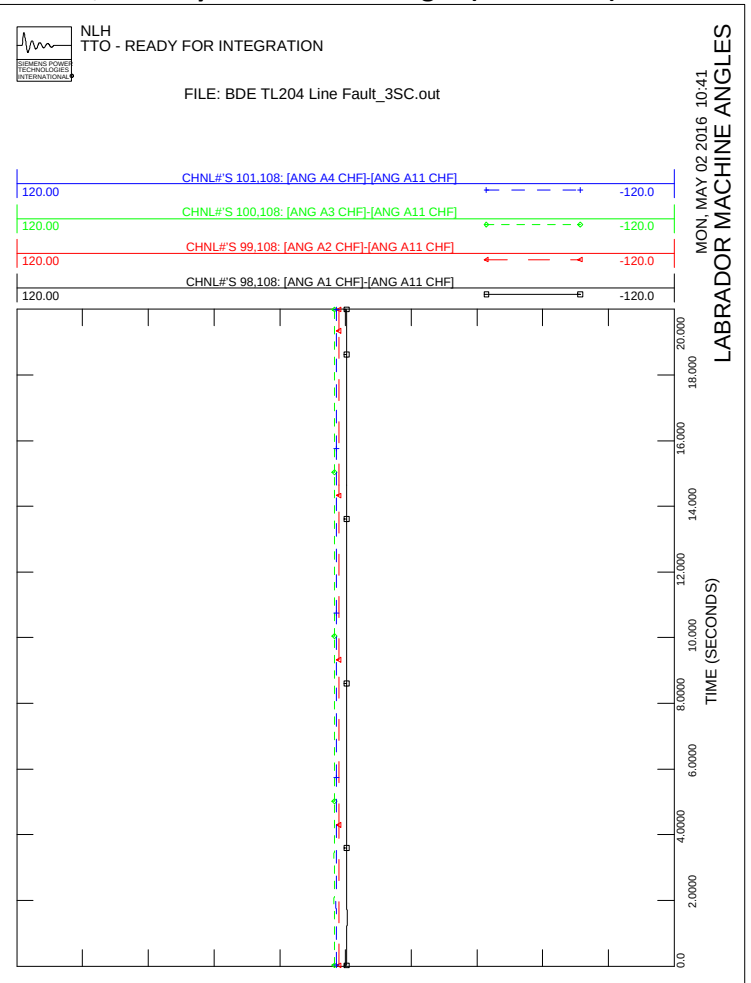
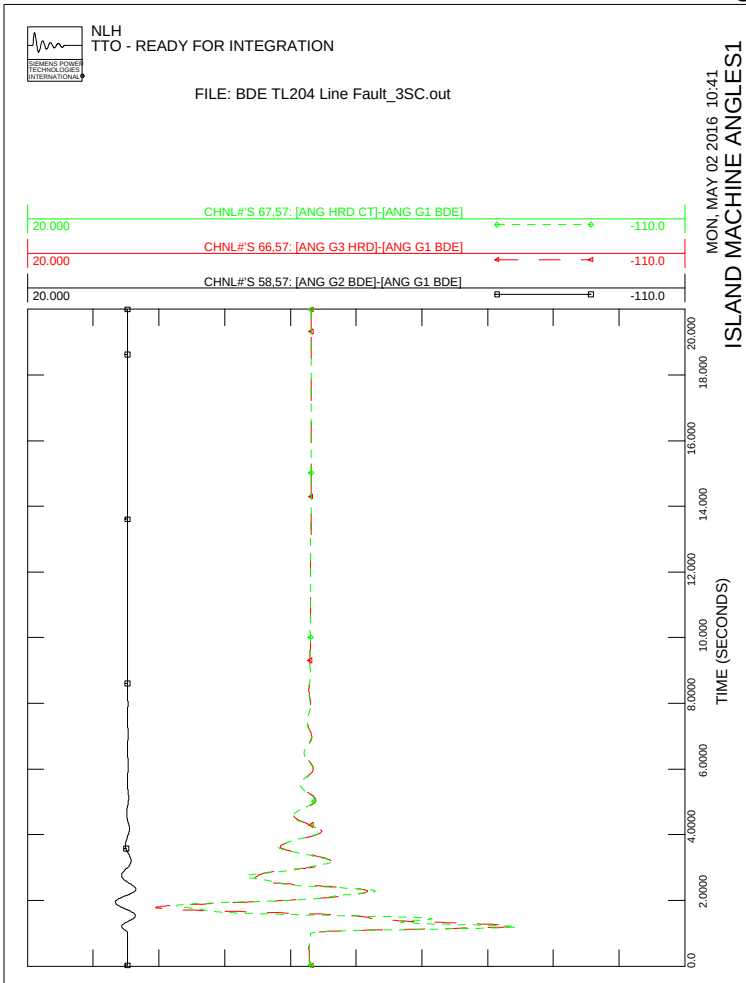


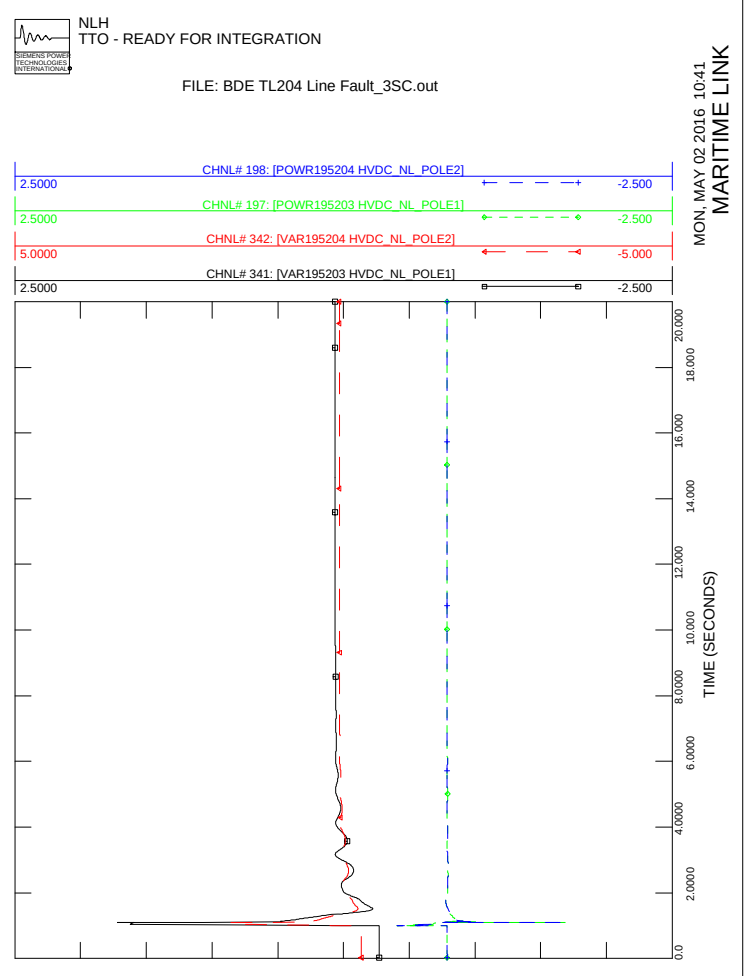
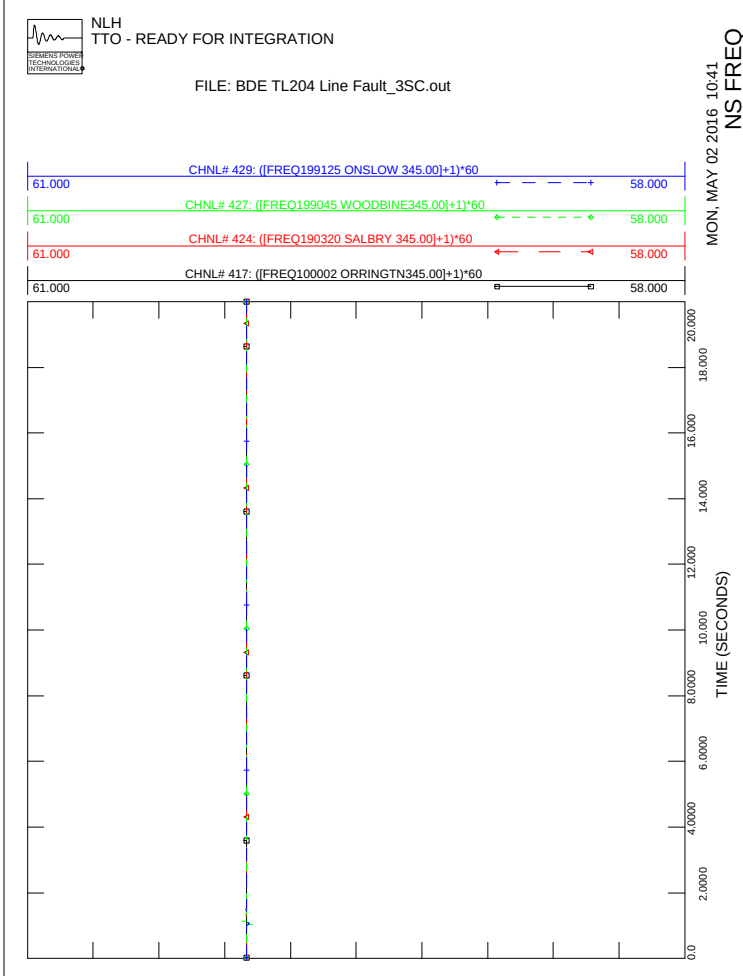
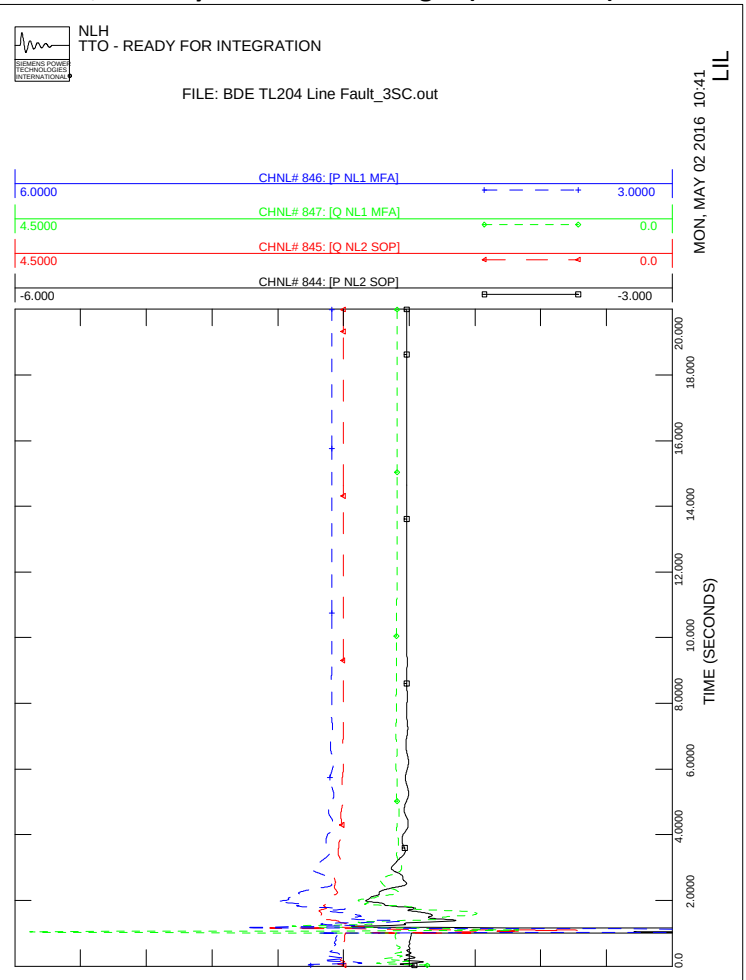
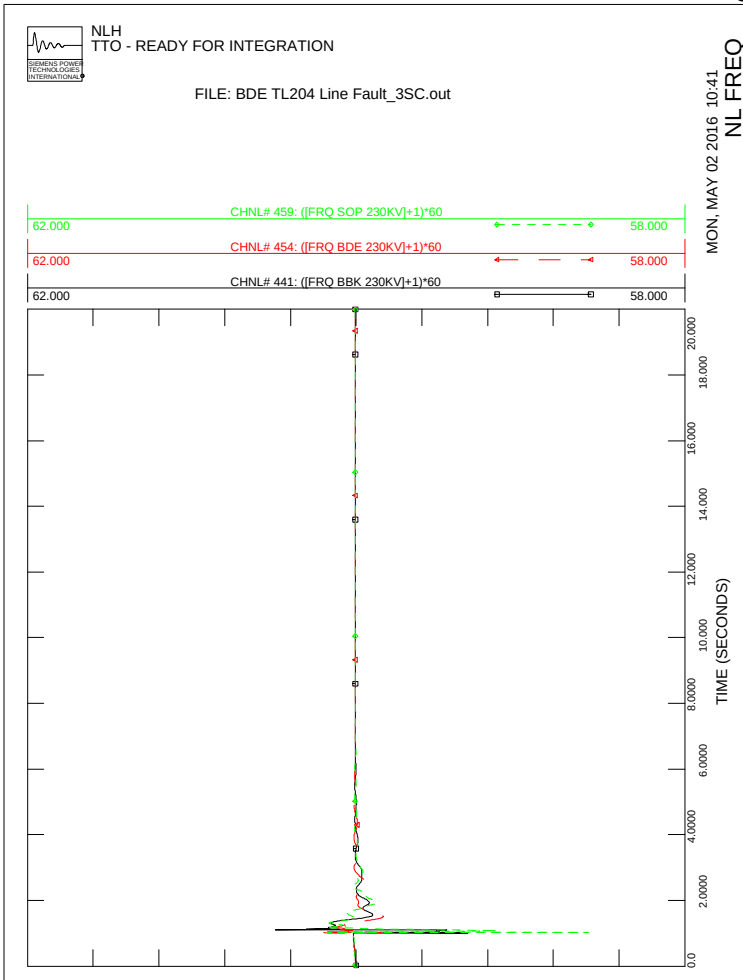


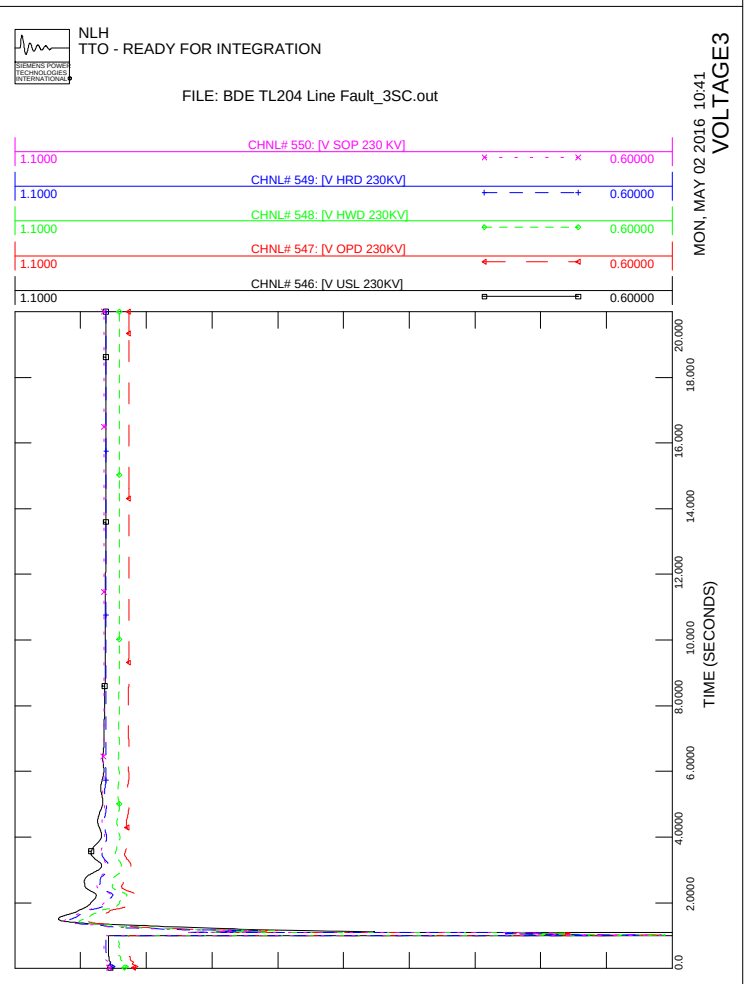
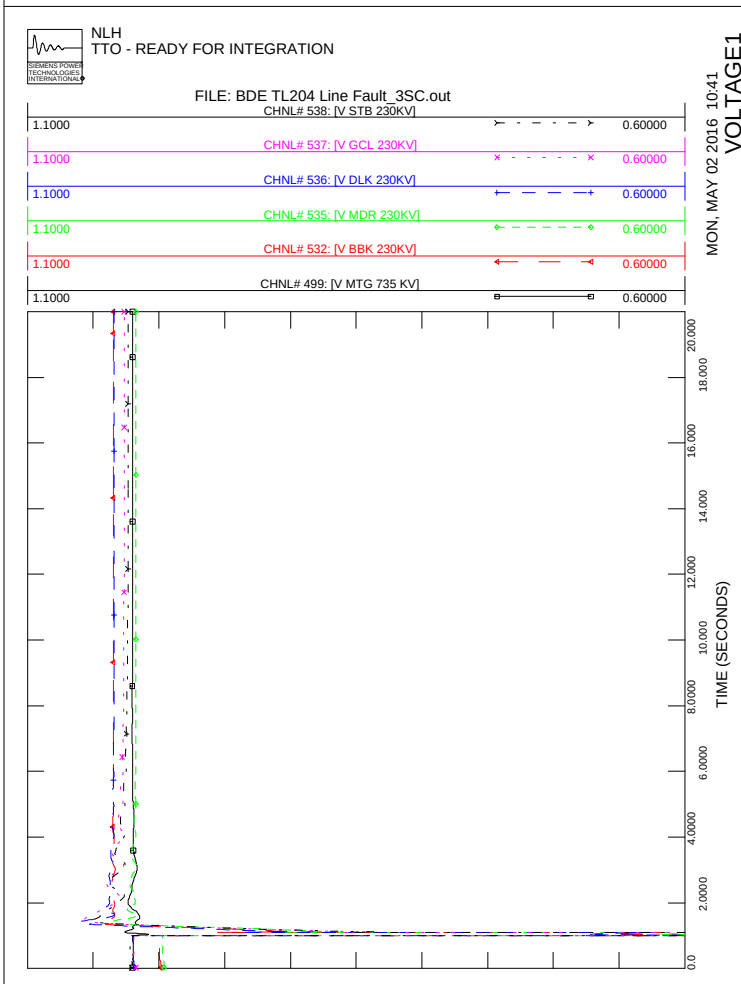
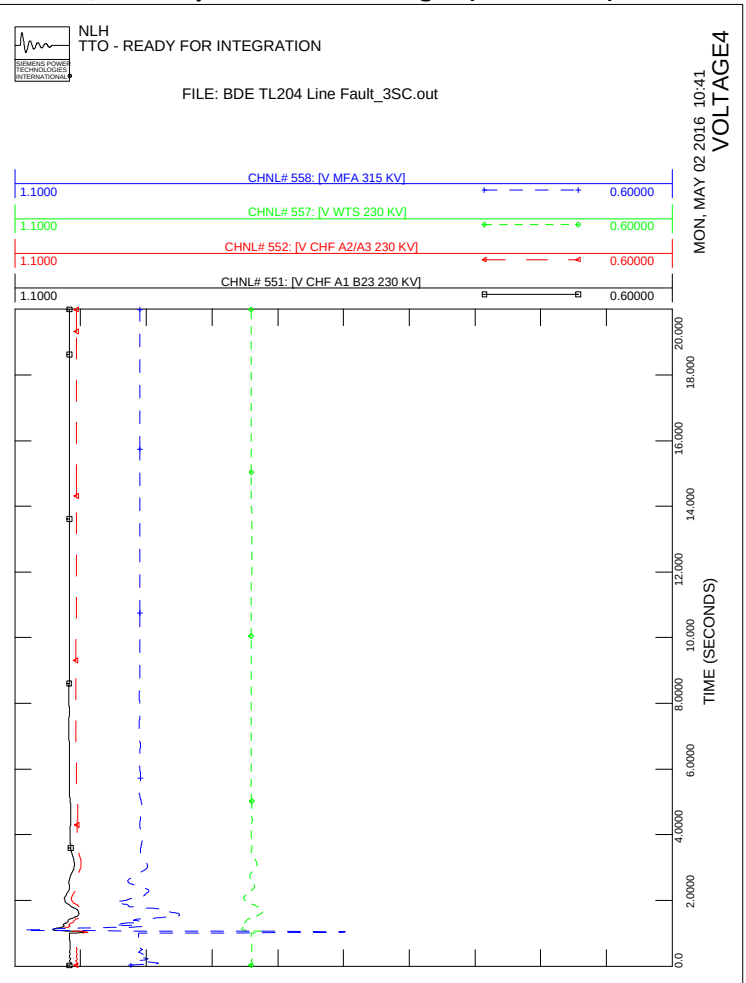
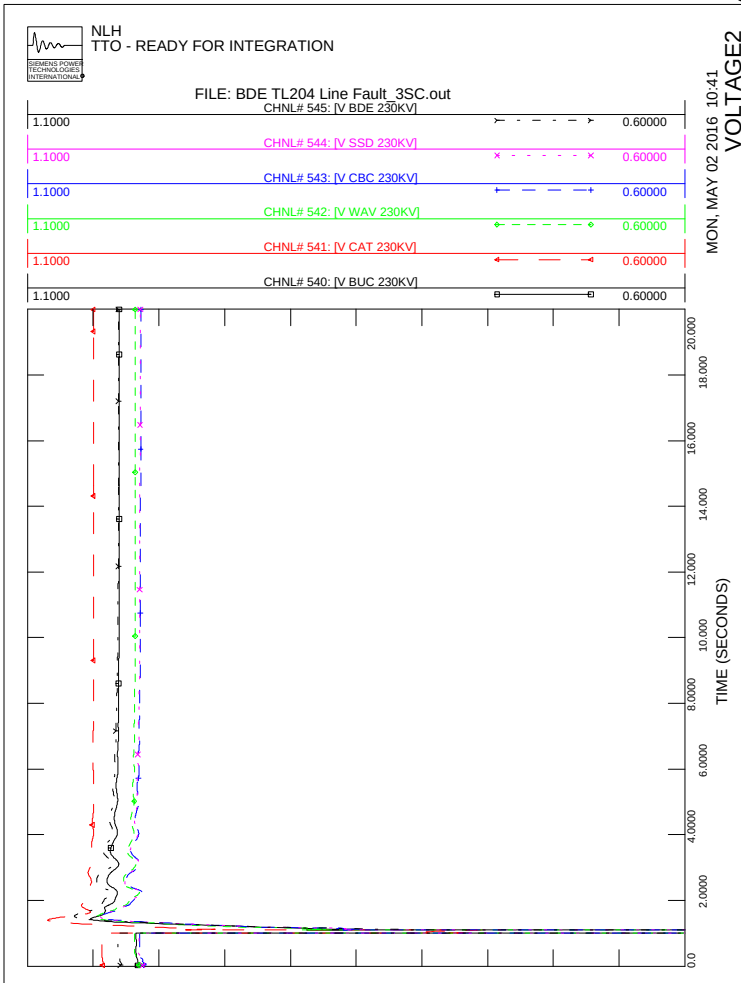


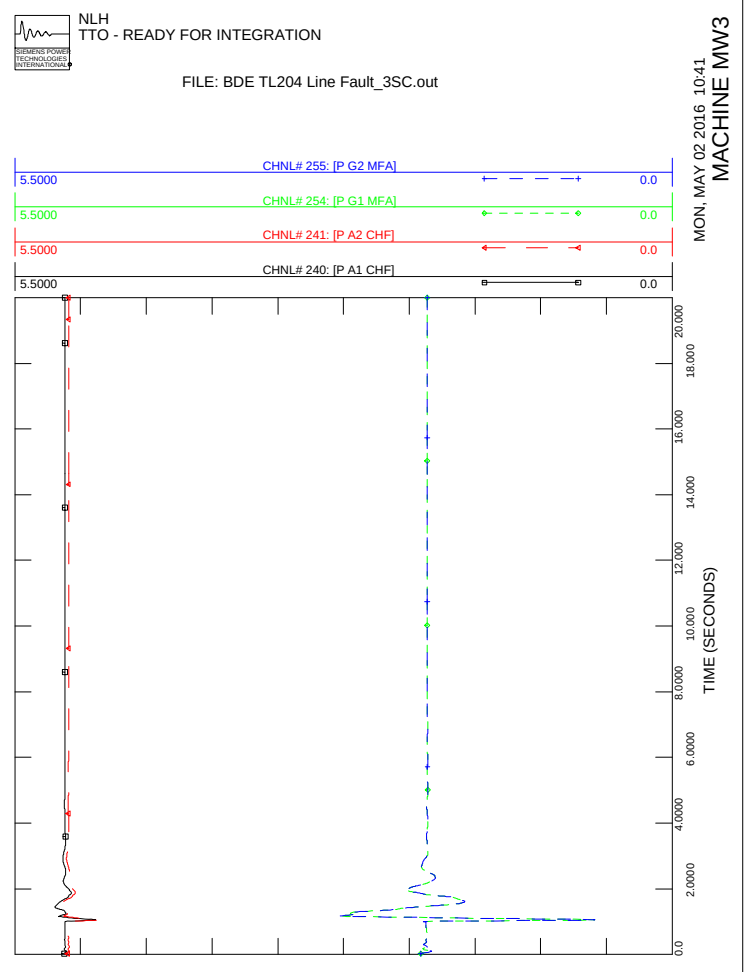
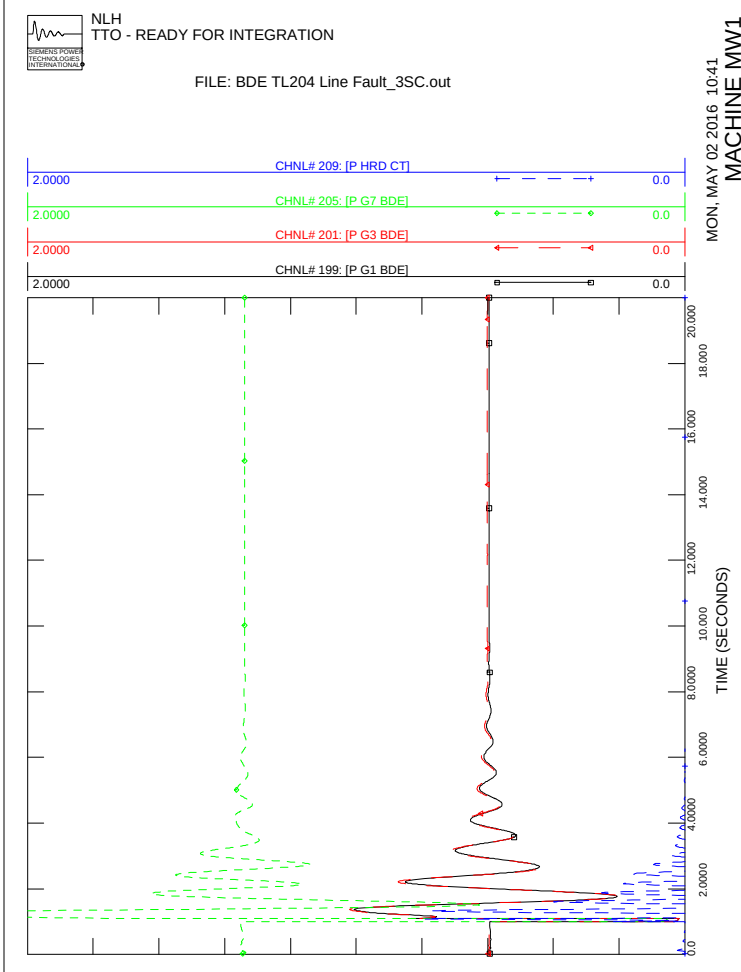
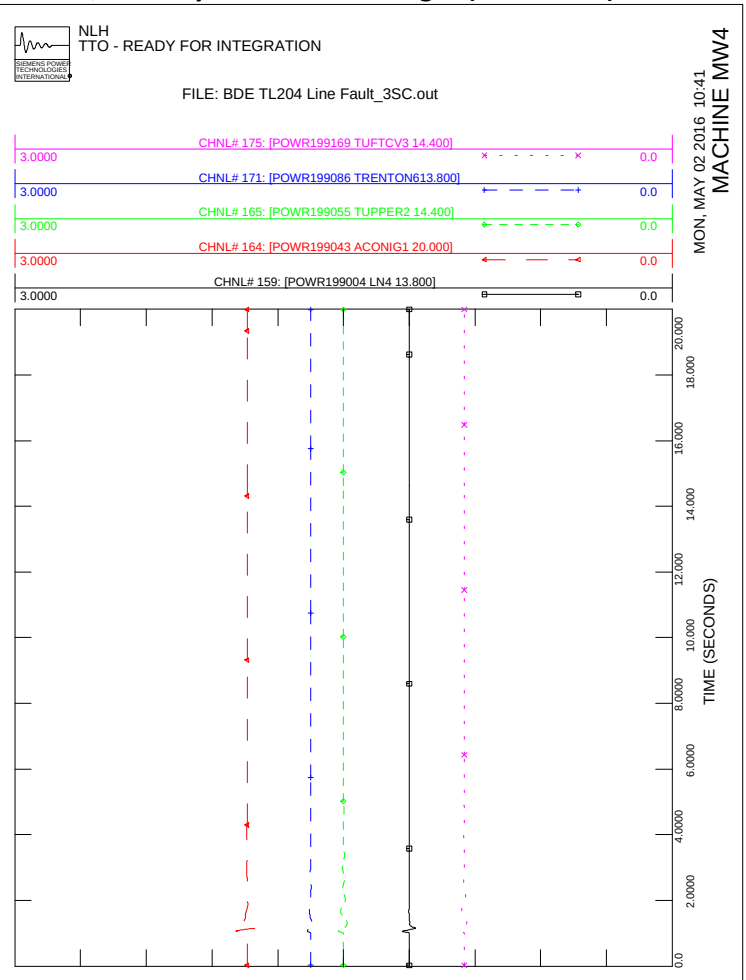
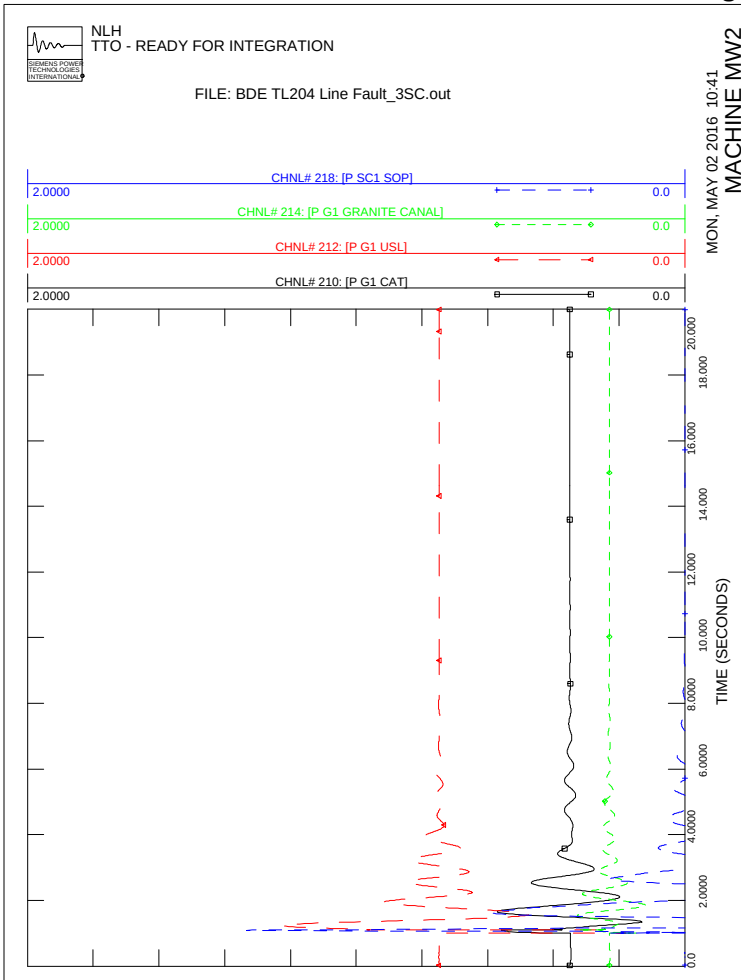


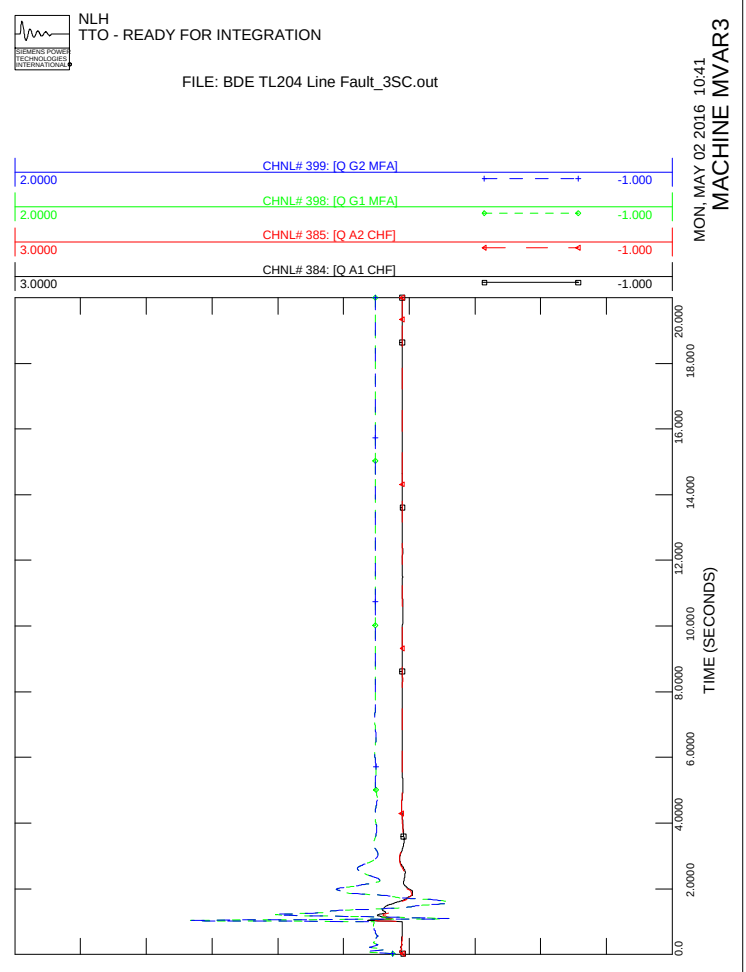
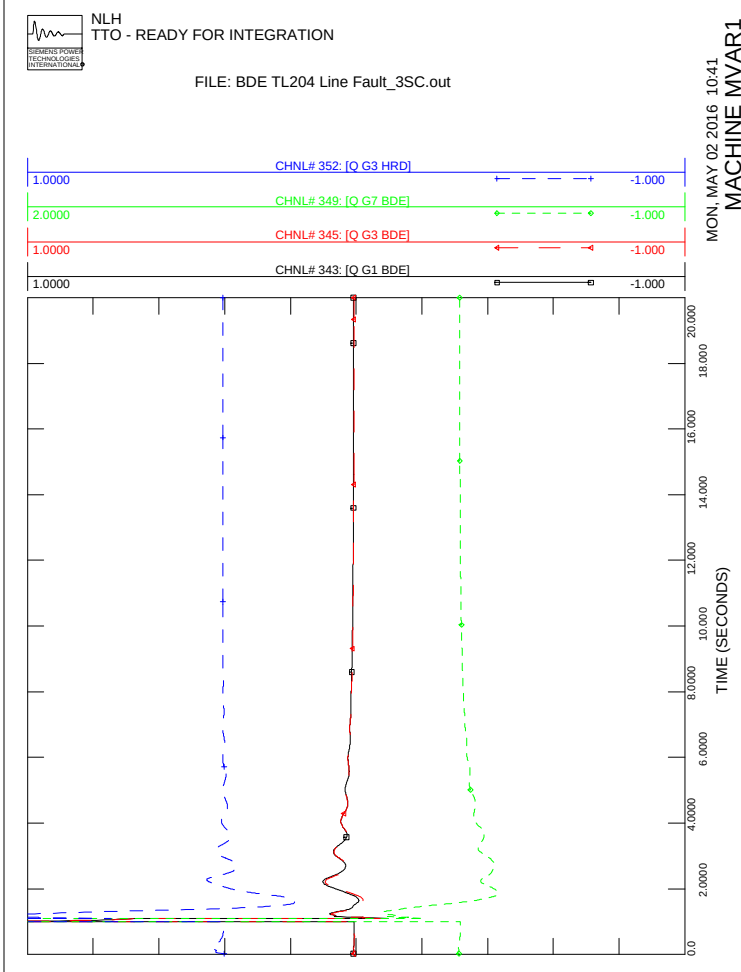
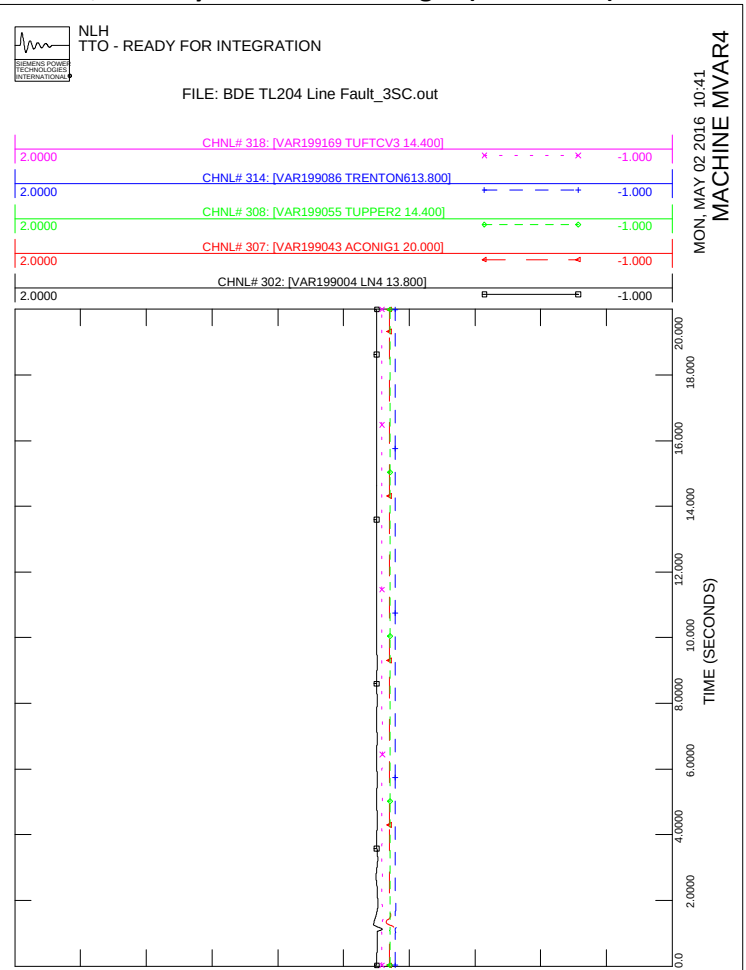
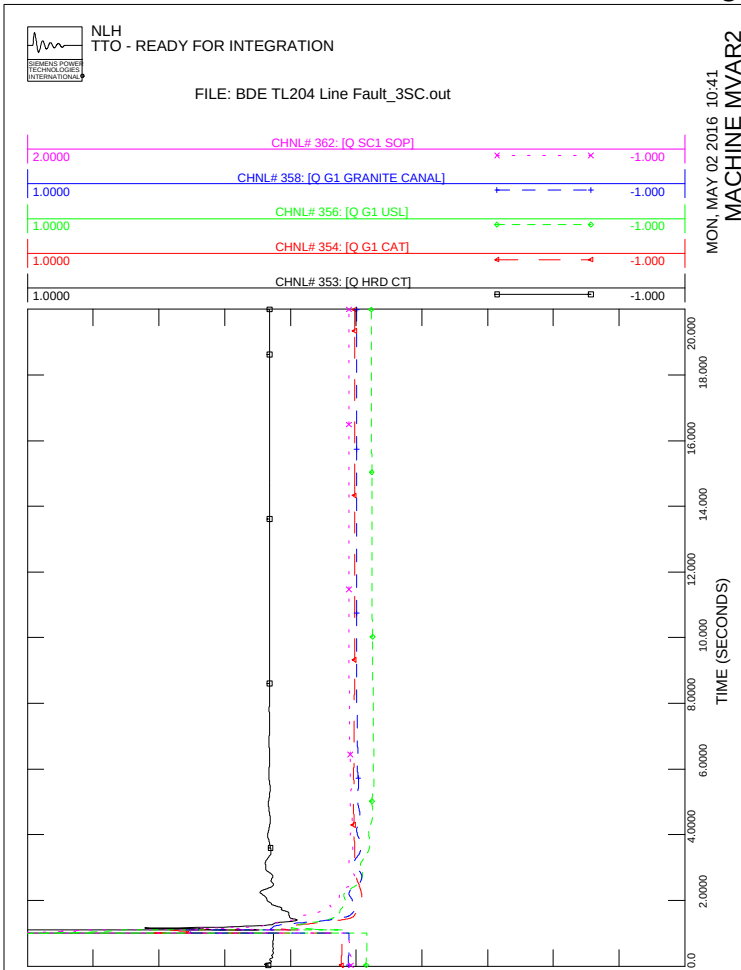


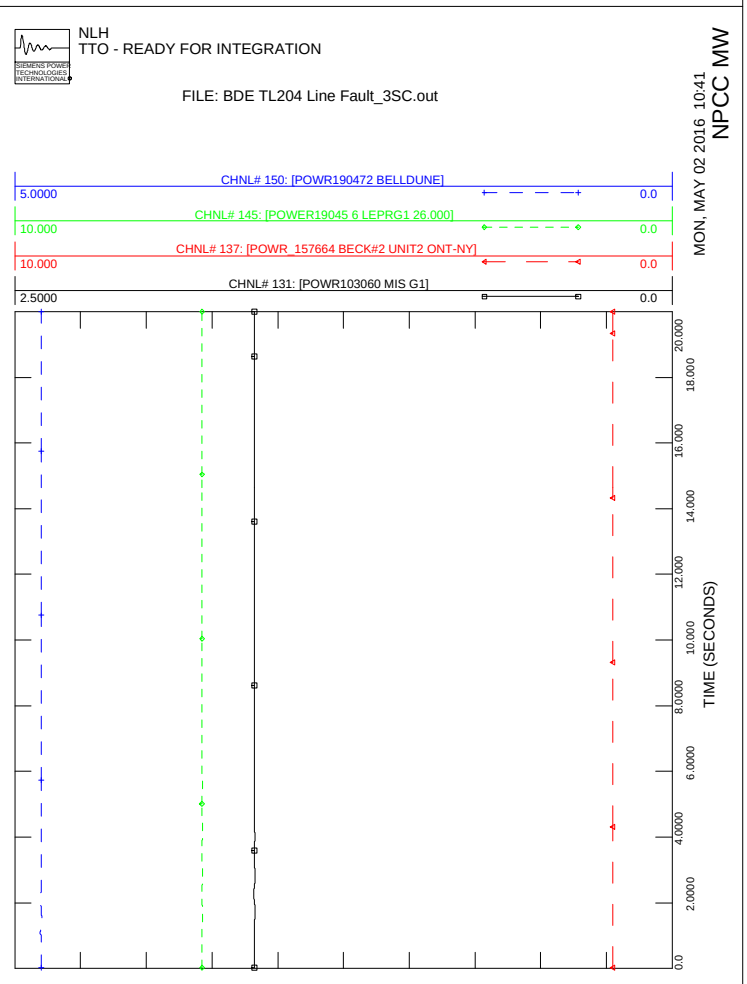
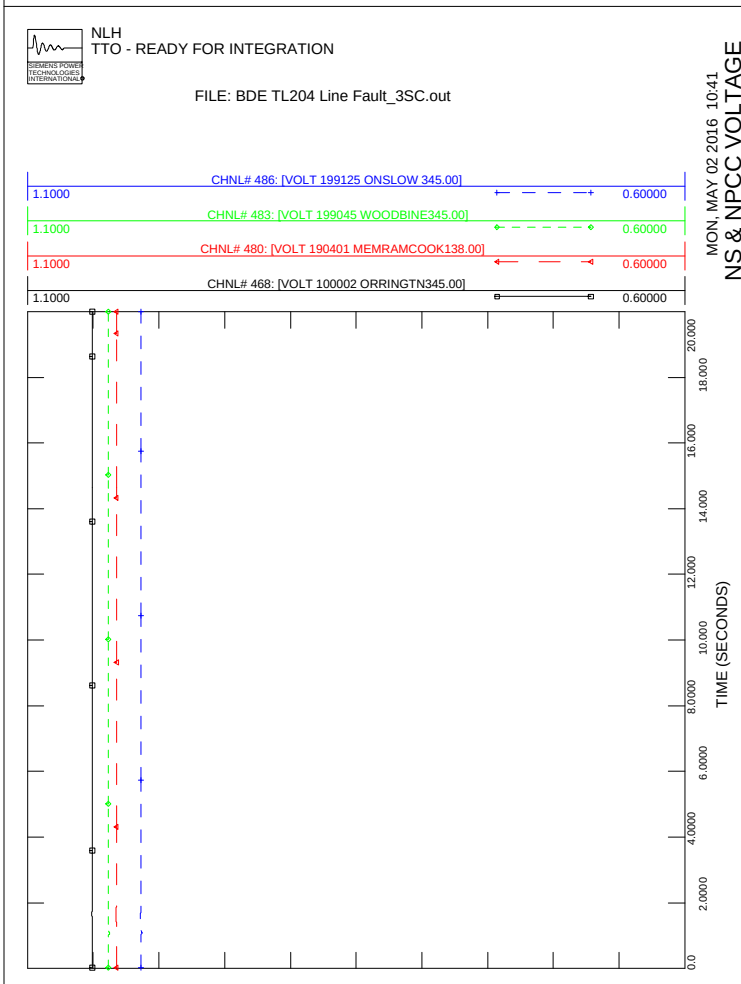
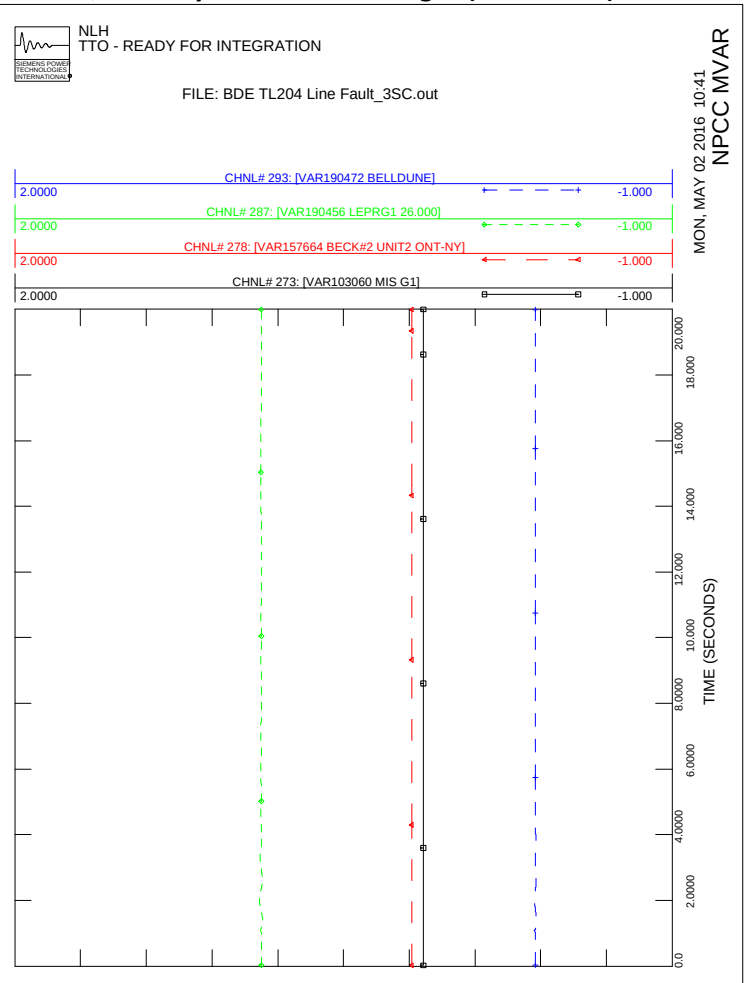
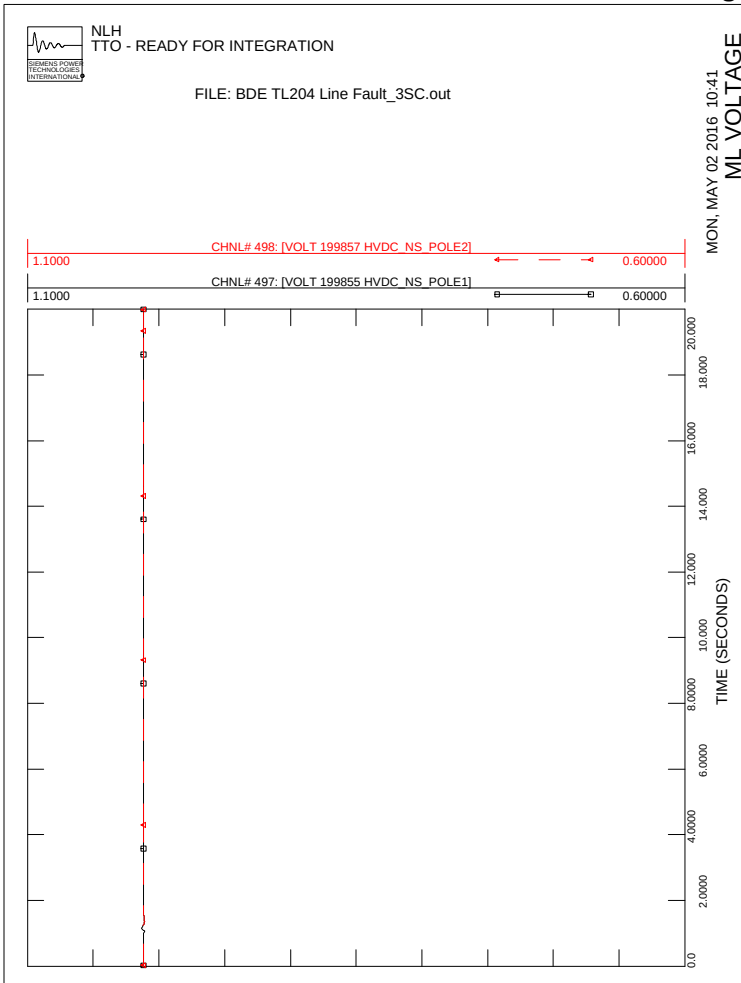


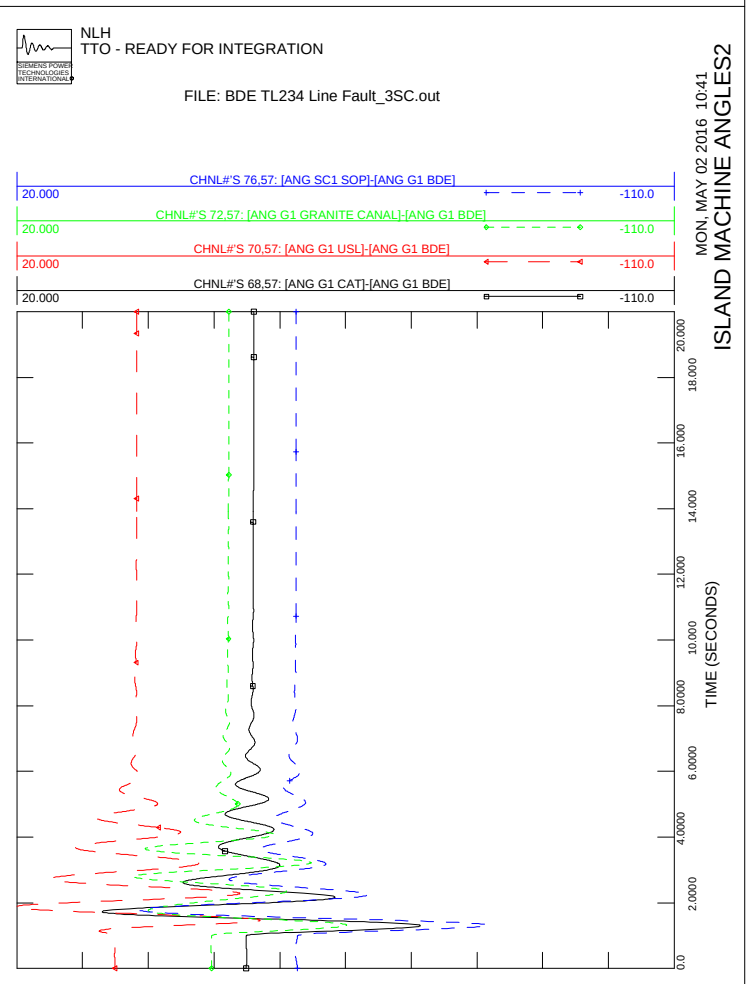
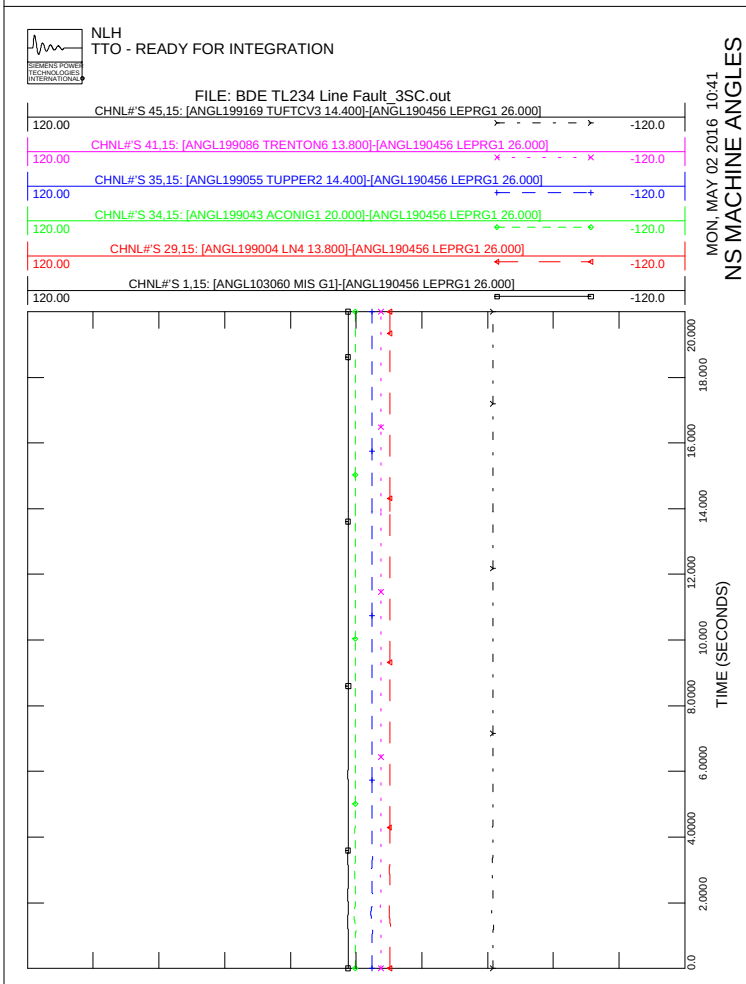
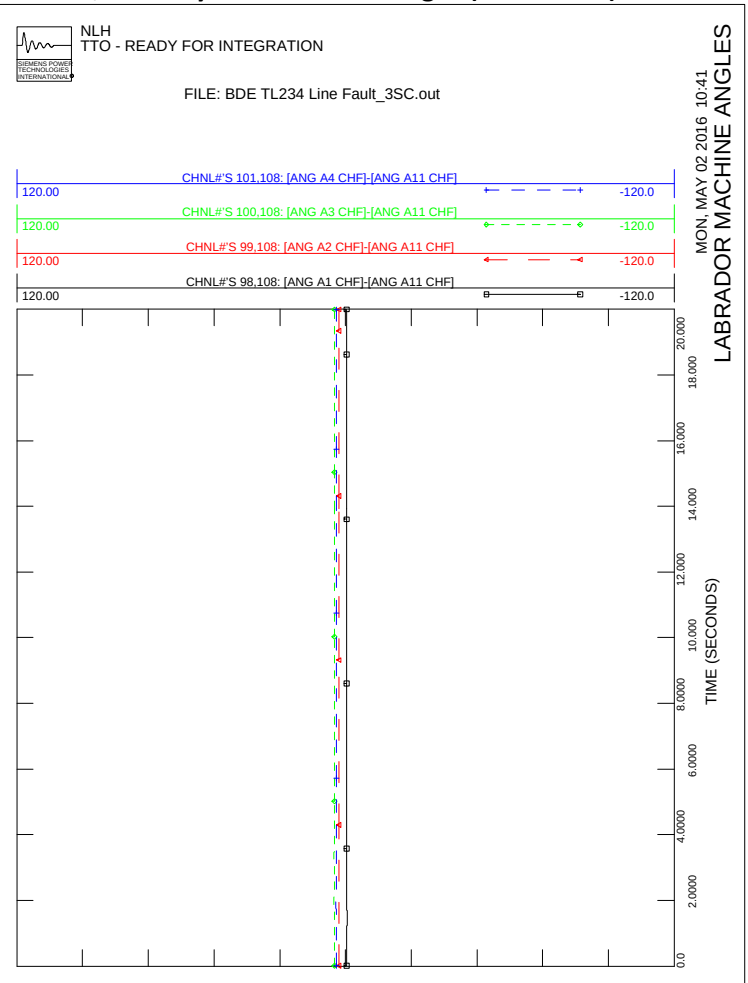
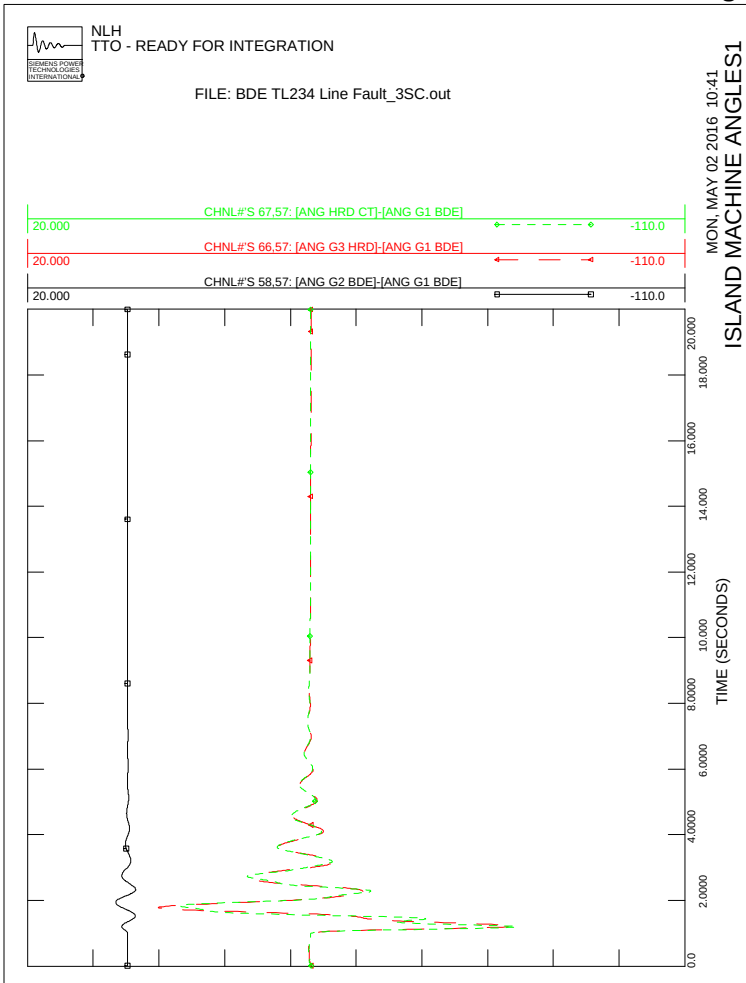






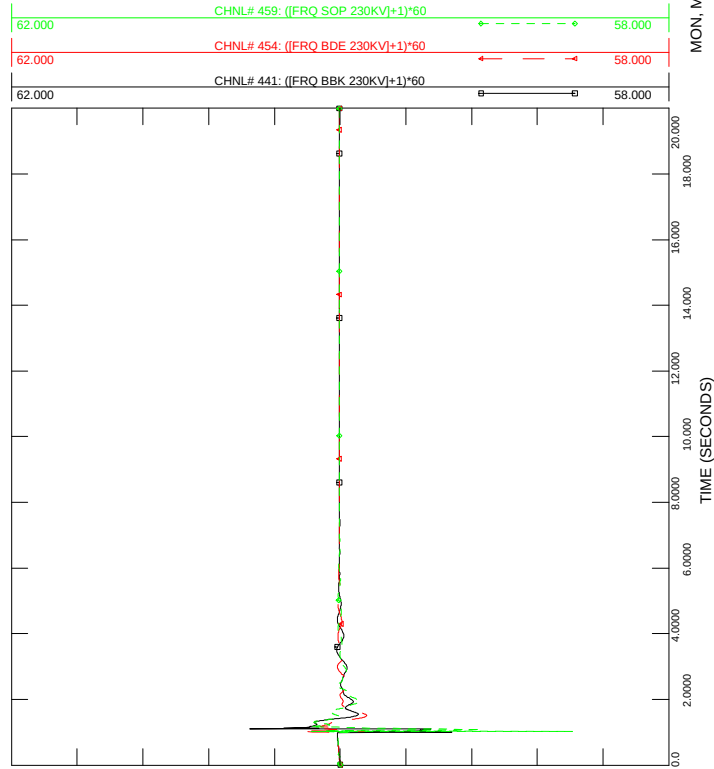




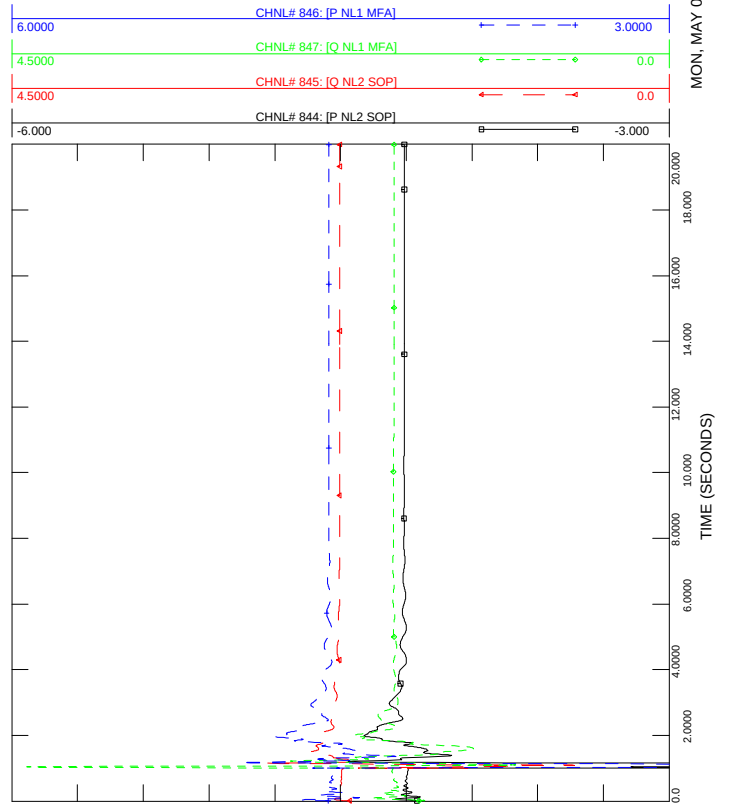


NLH
TTO - READY FOR INTEGRATION

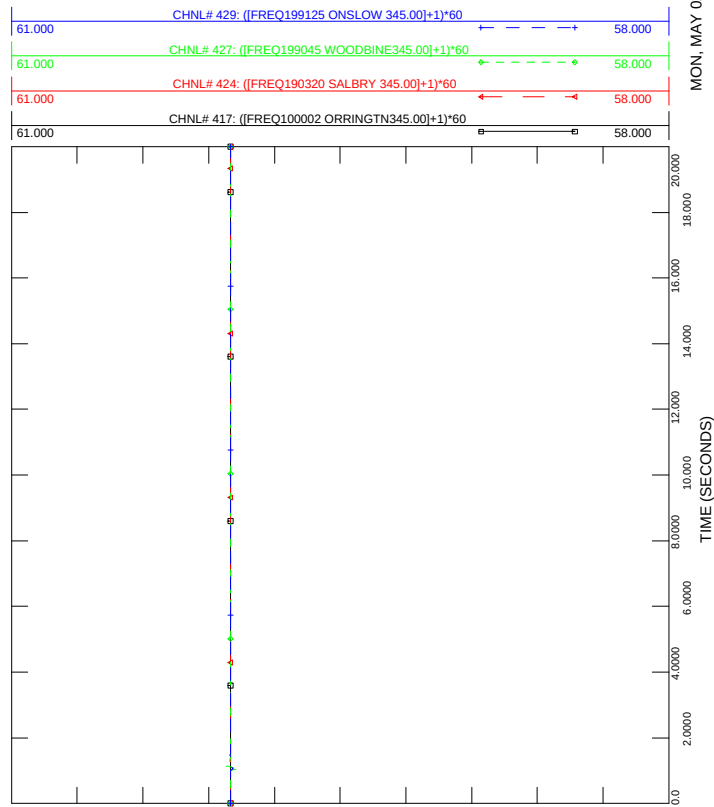
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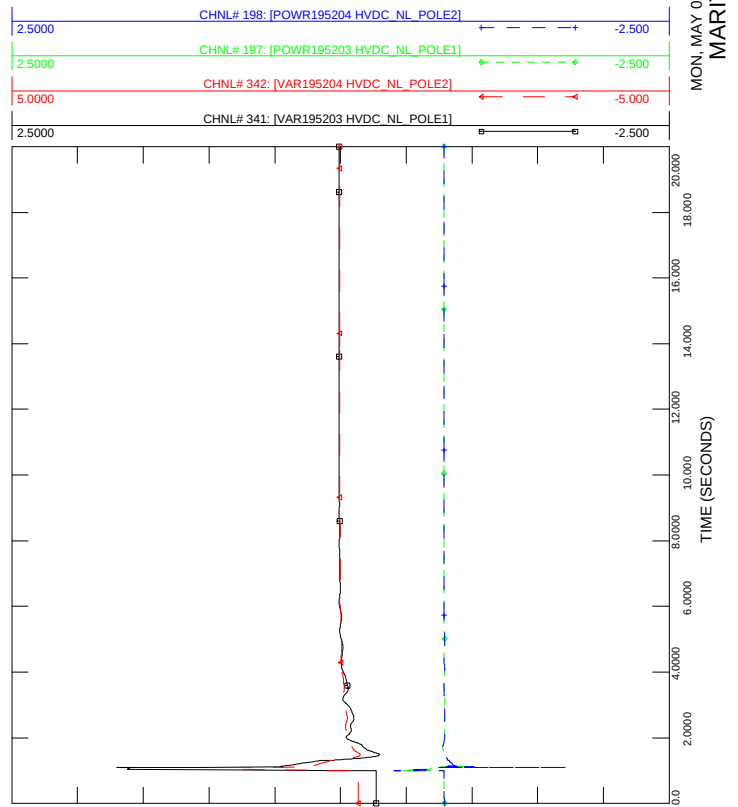
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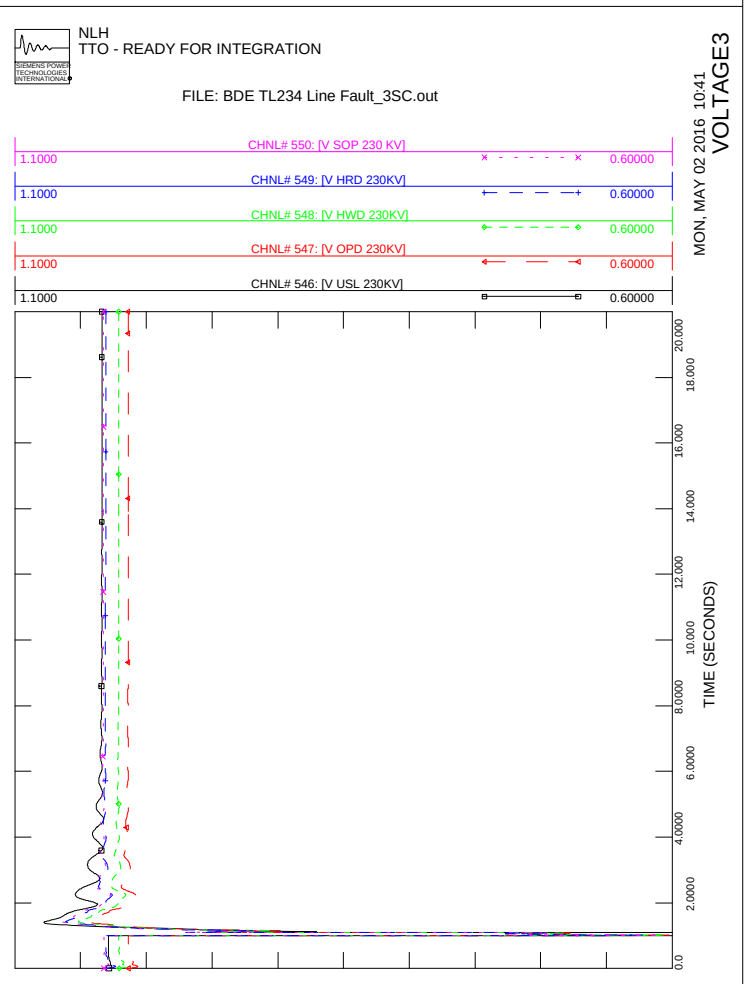
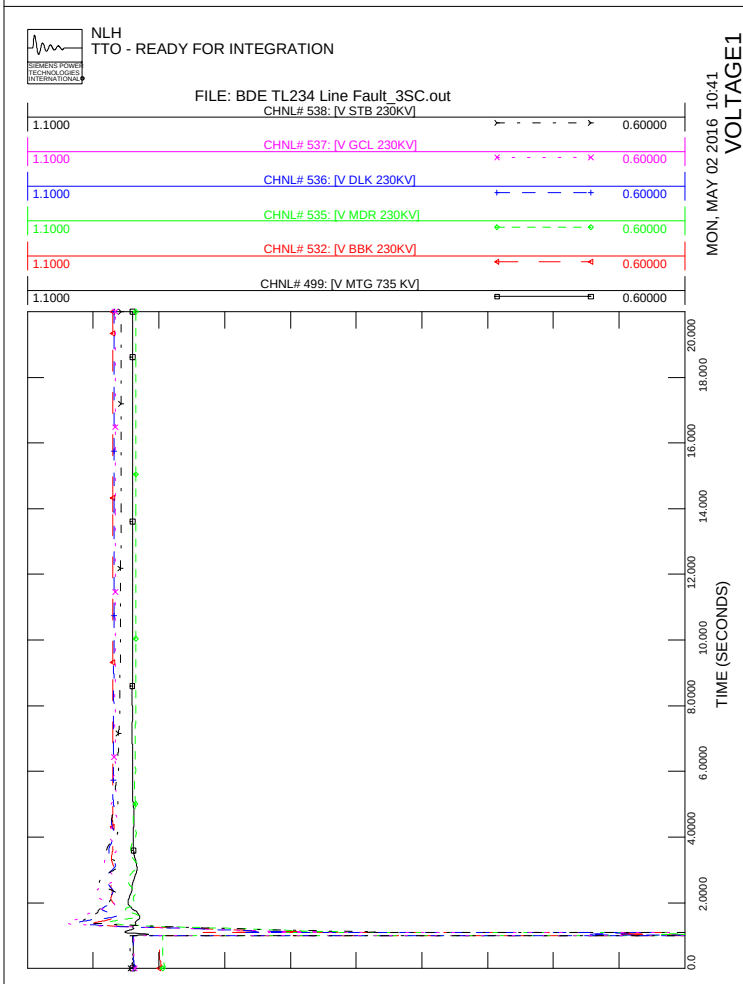
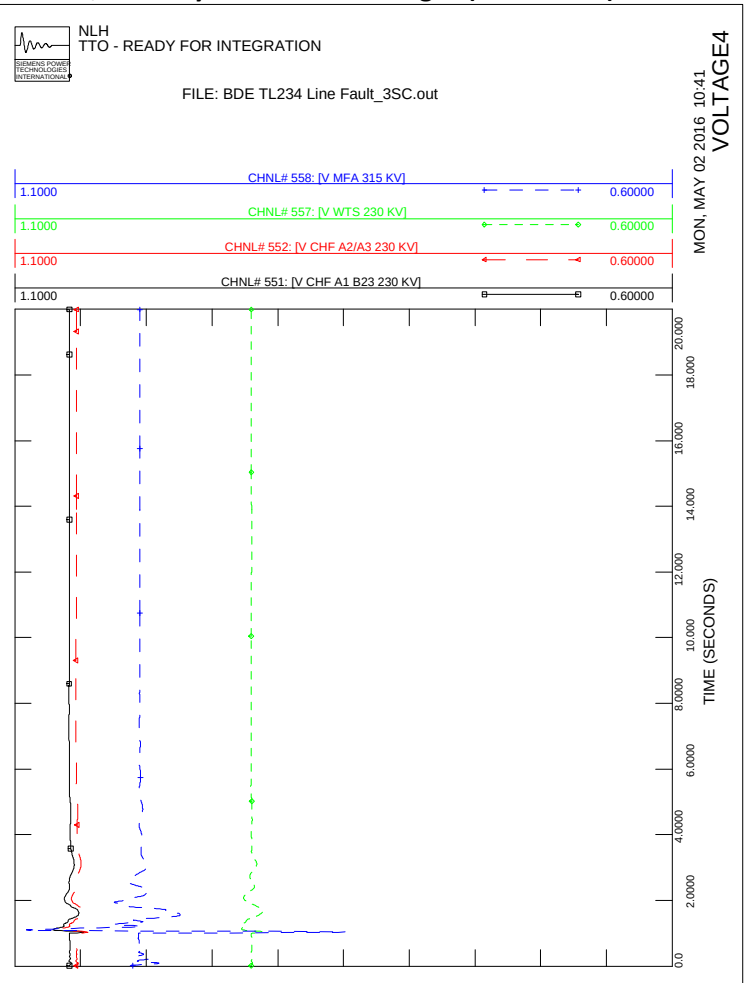
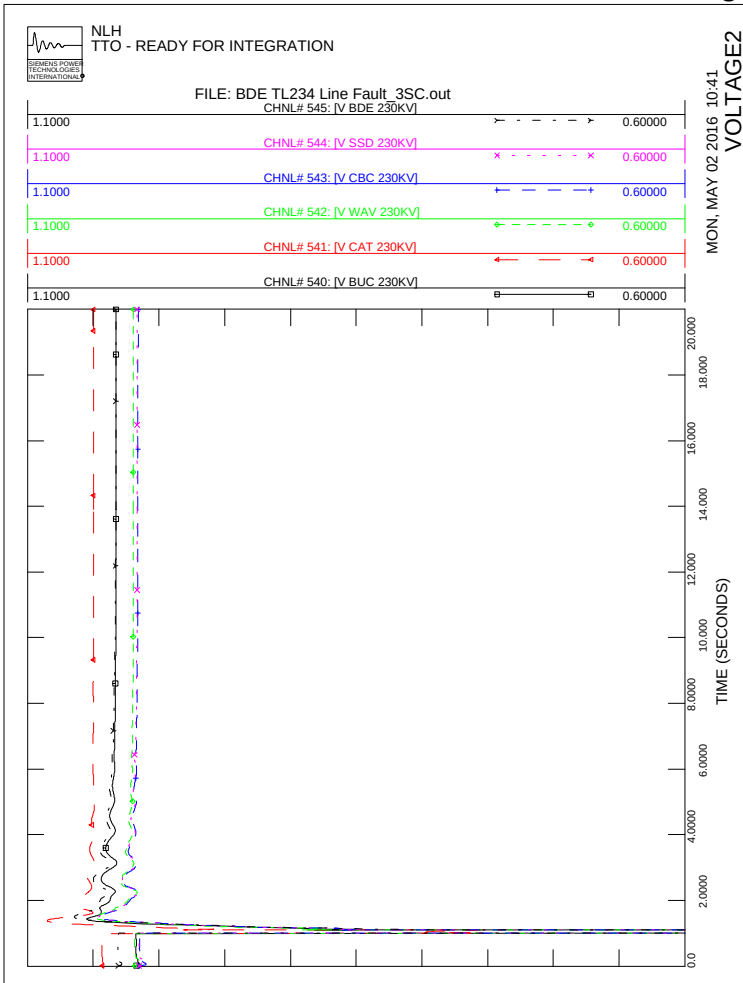
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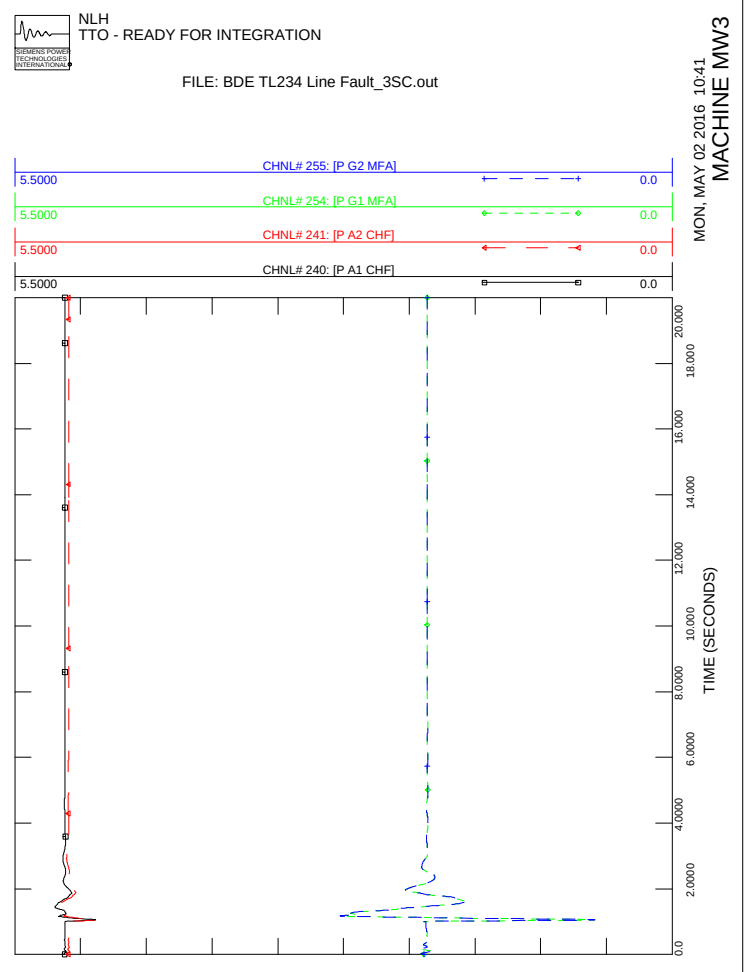
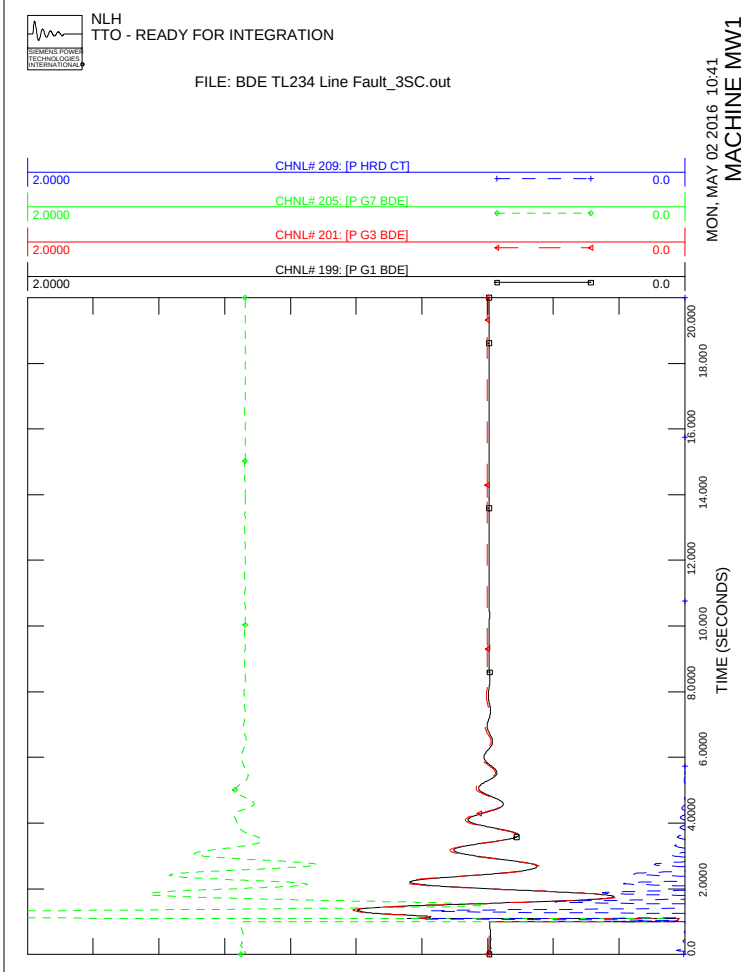
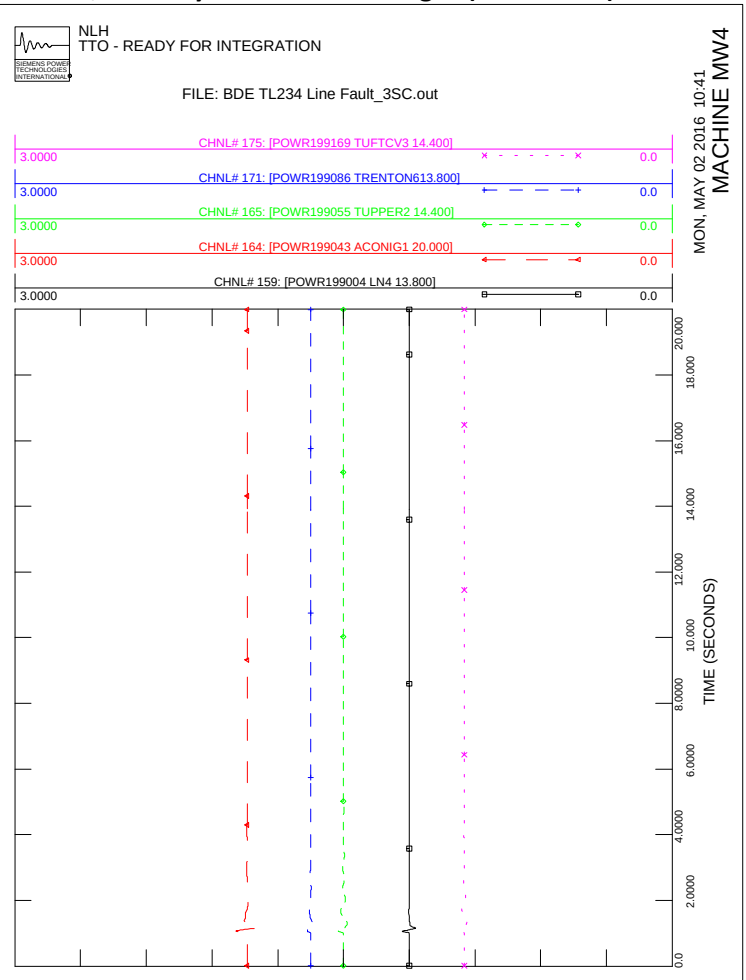
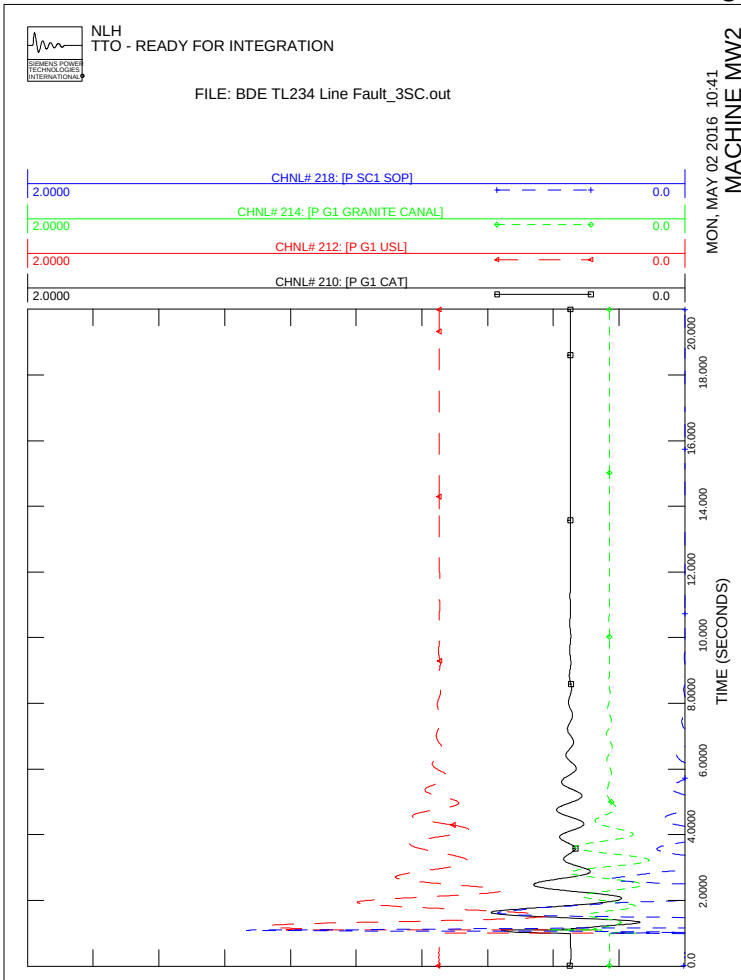
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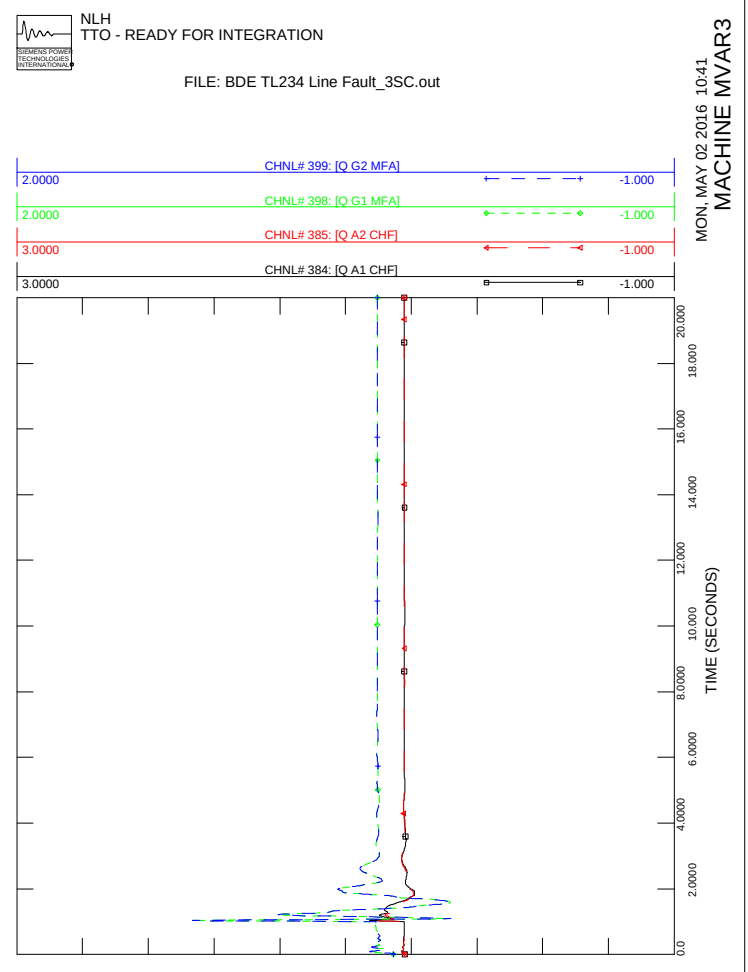
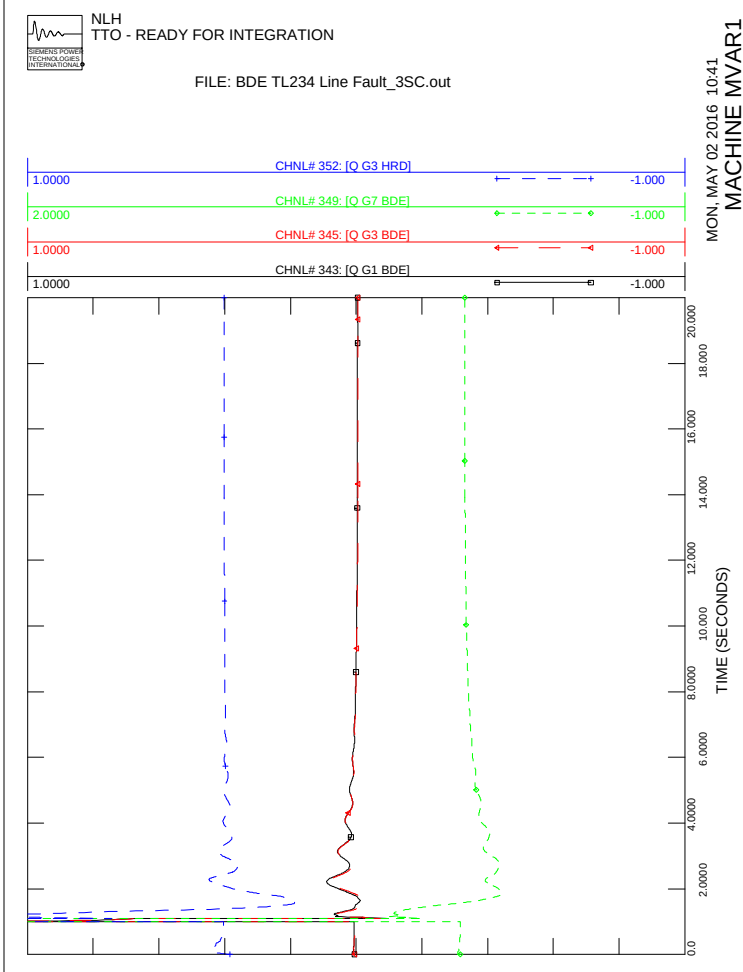
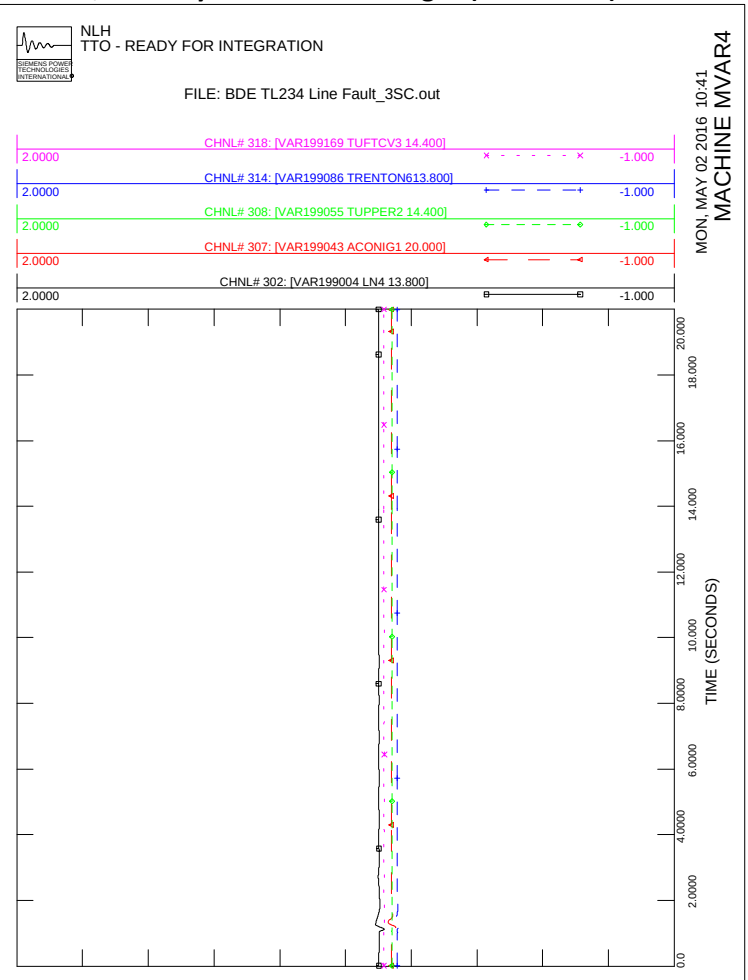
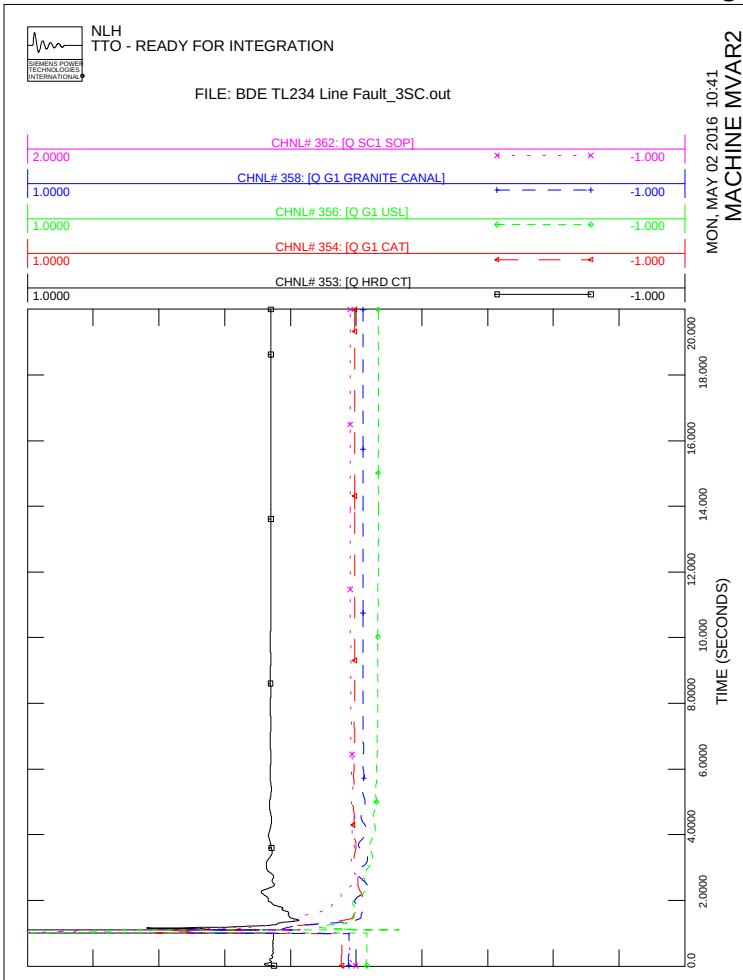
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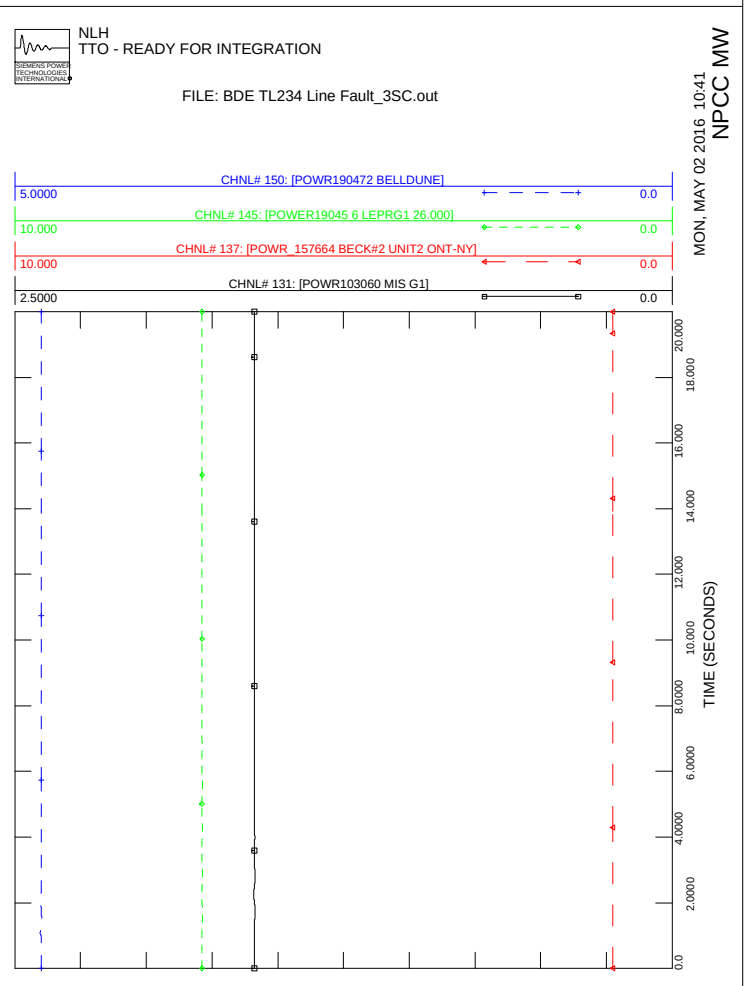
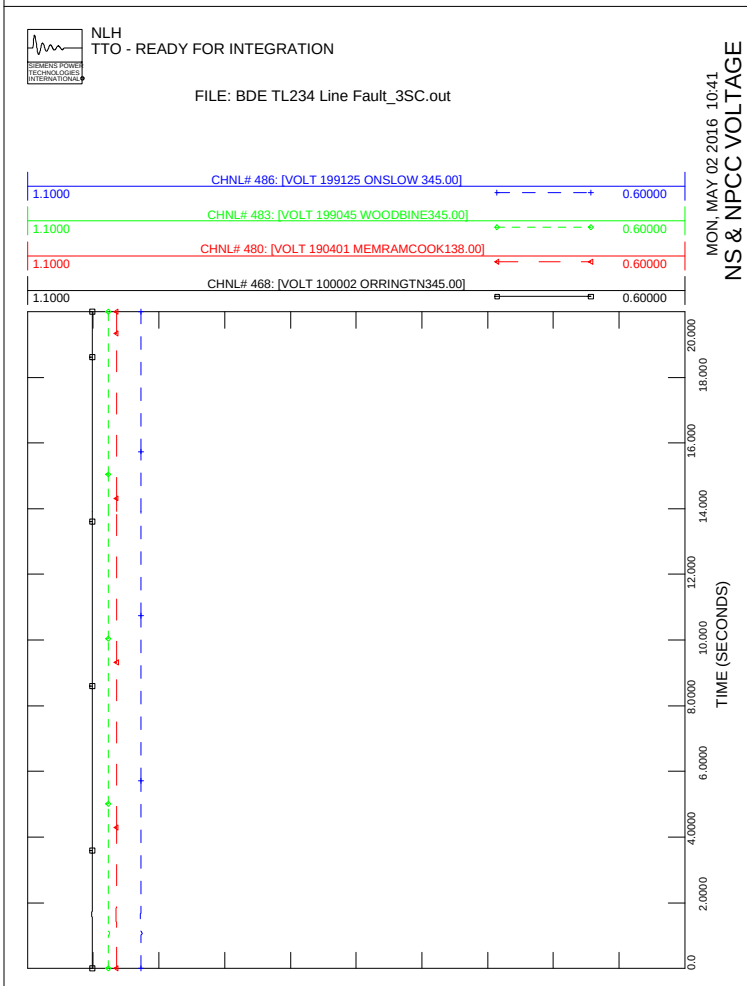
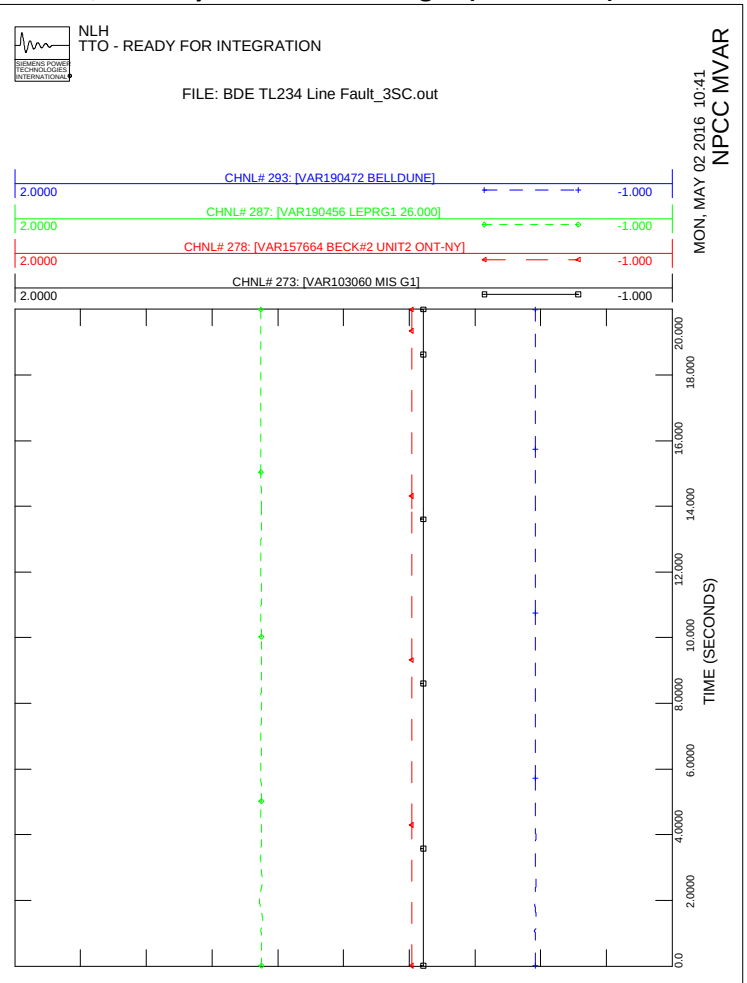
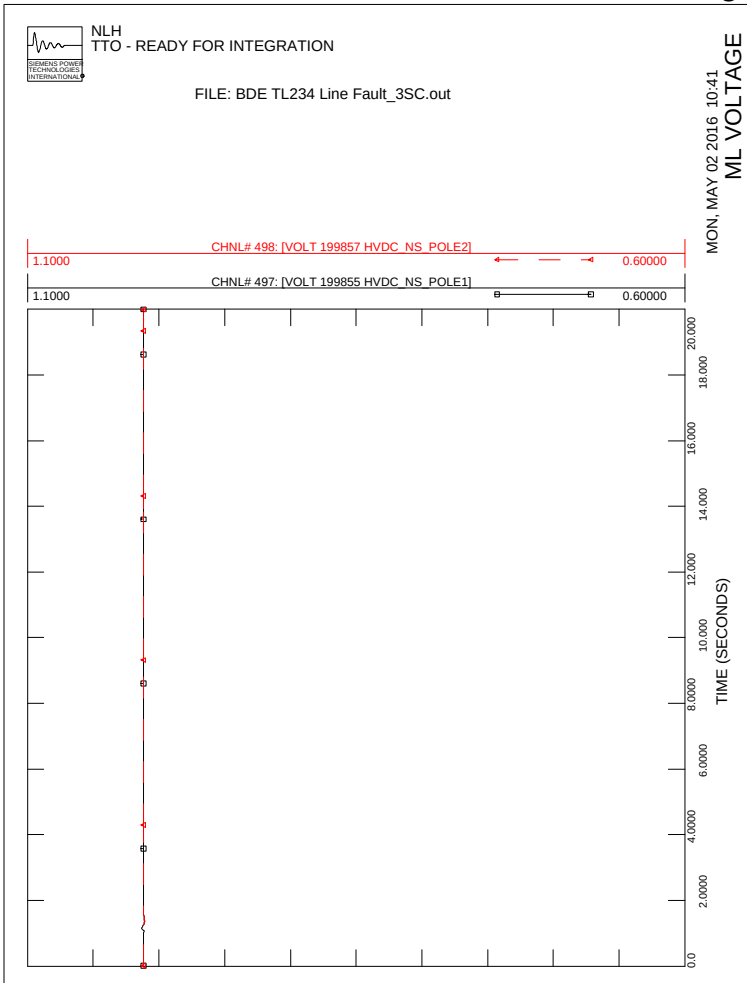
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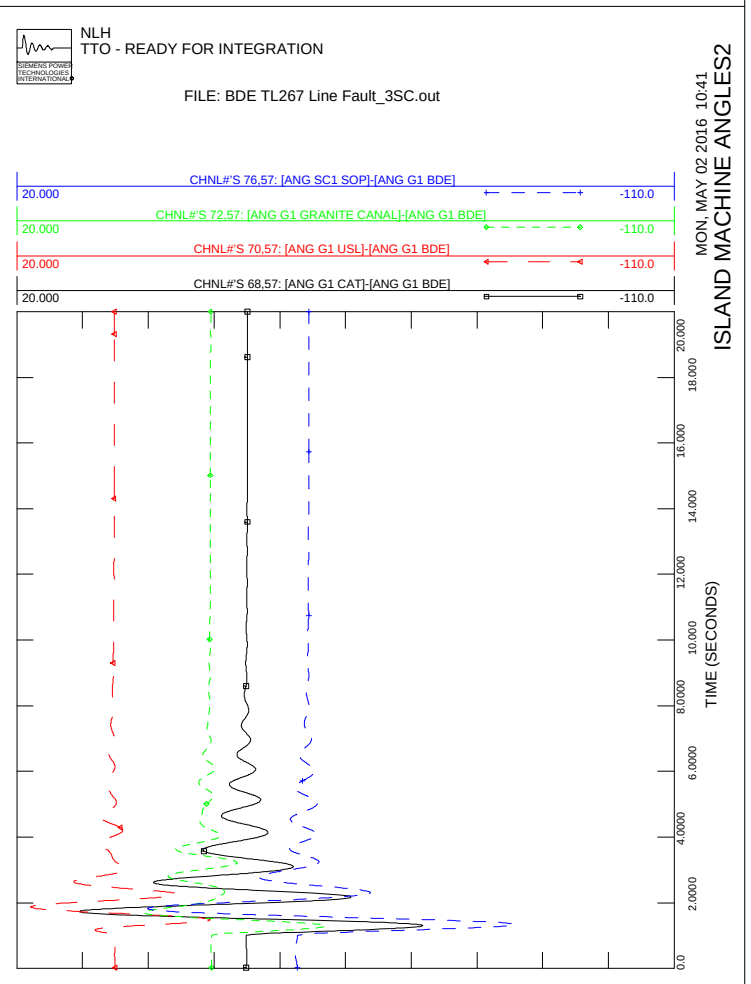
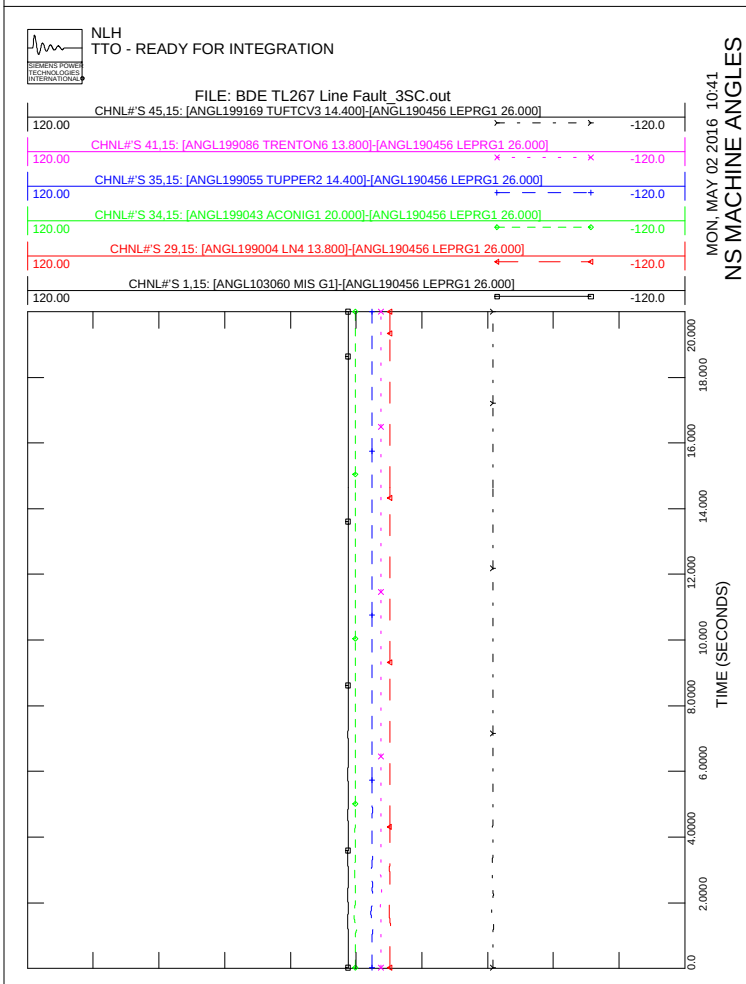
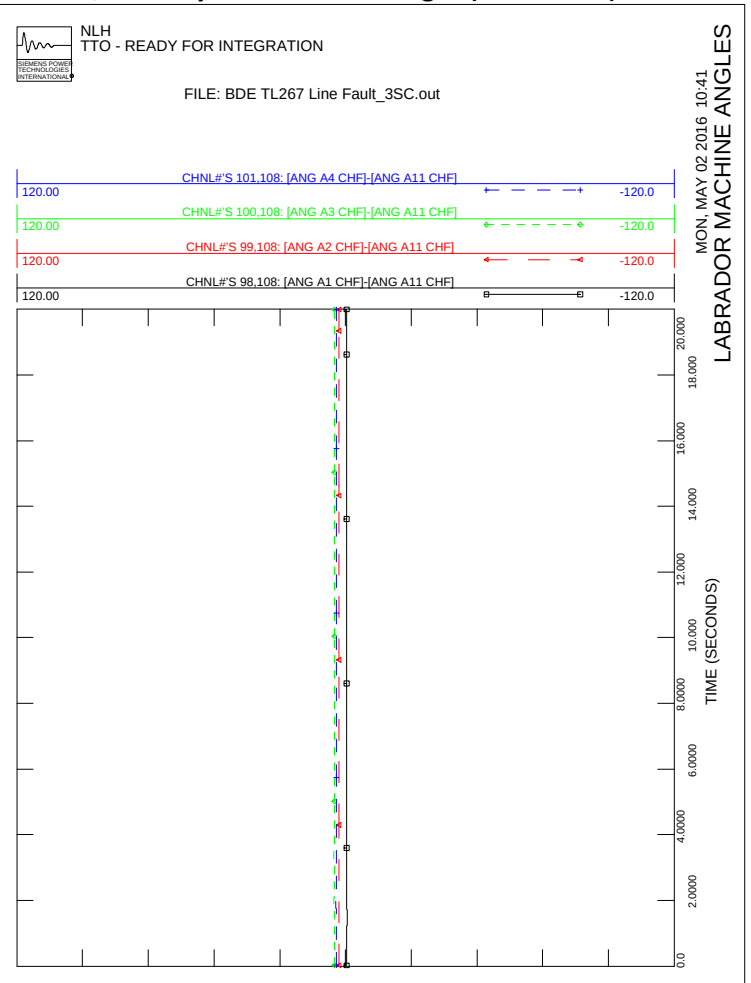
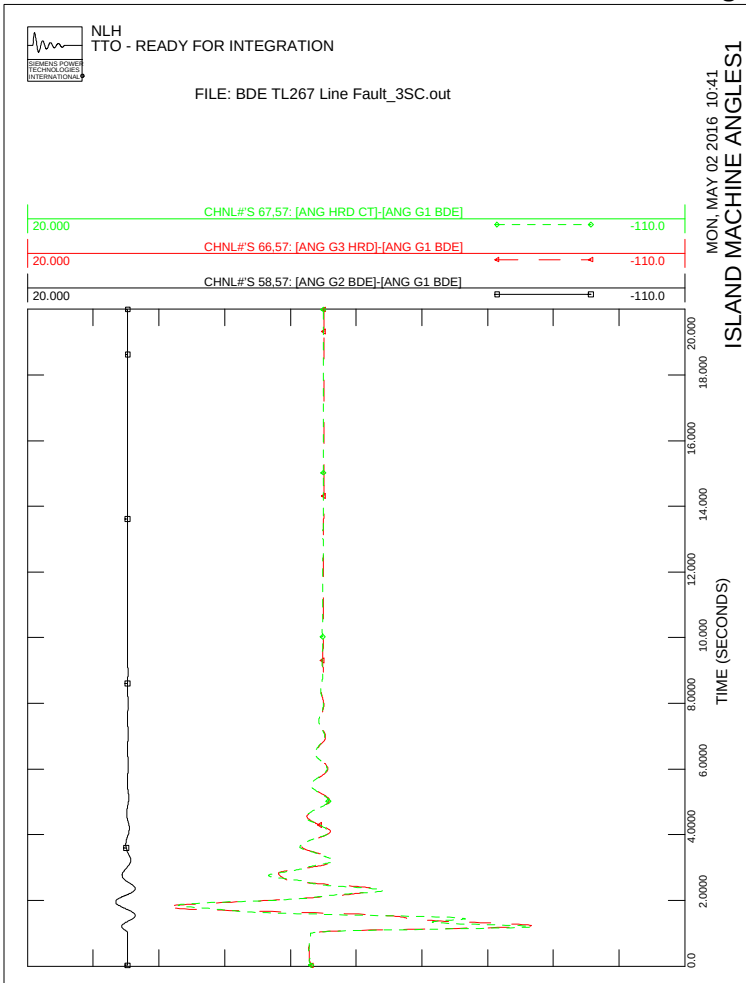


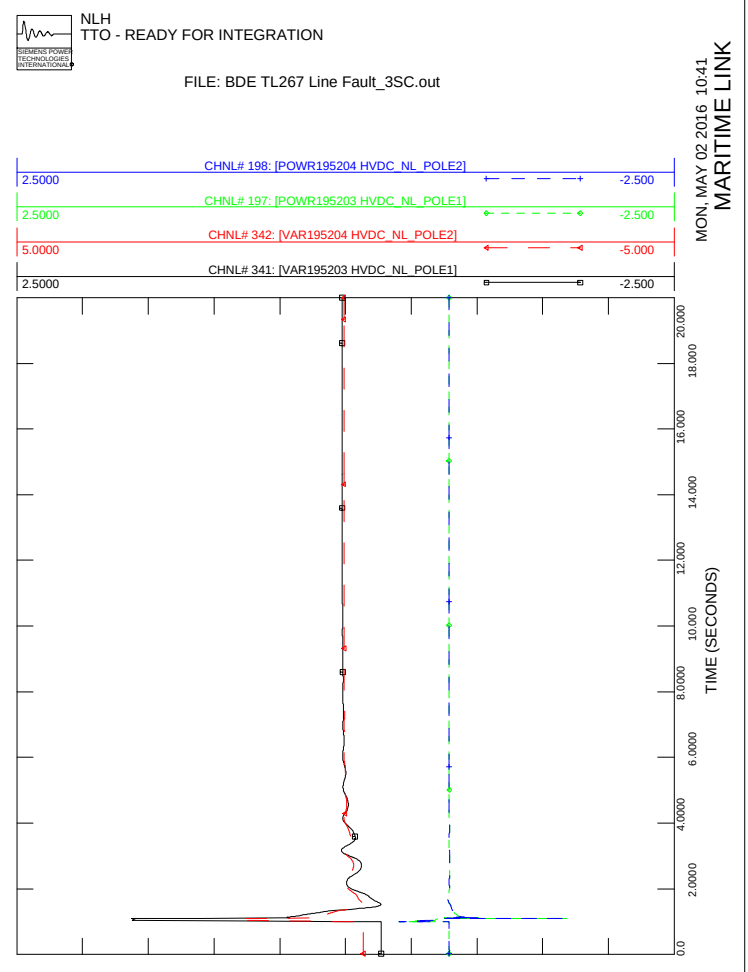
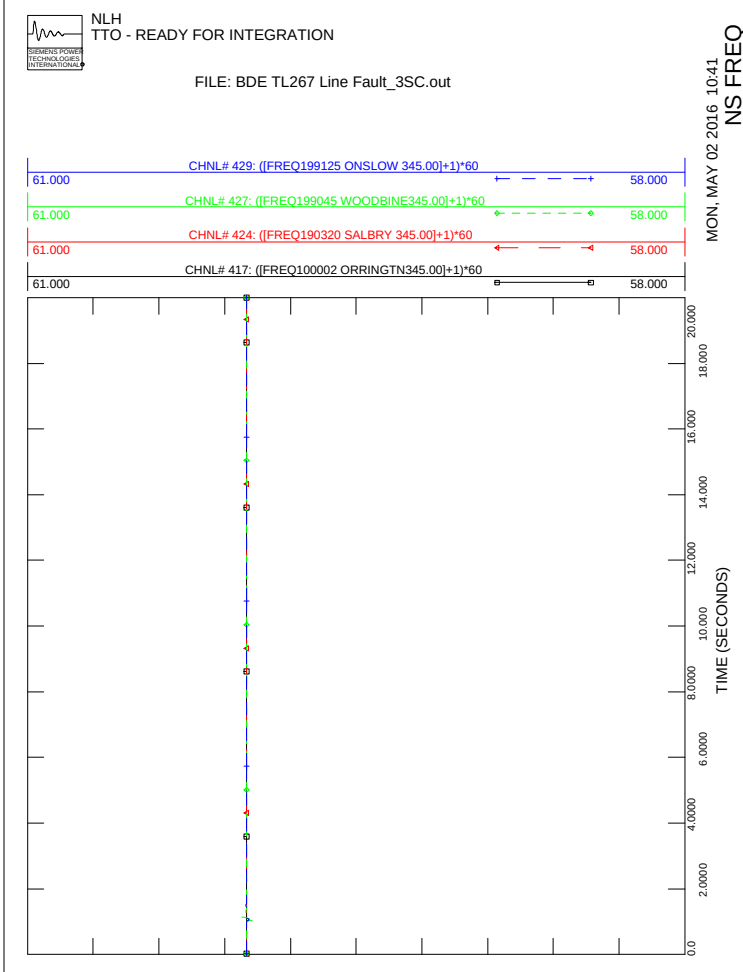
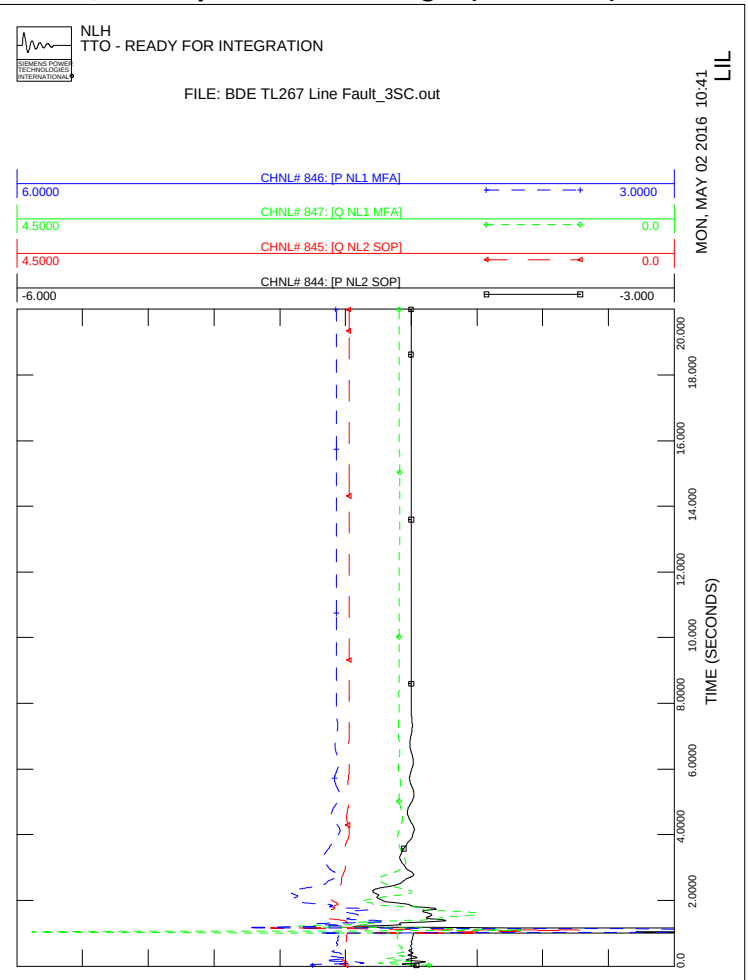
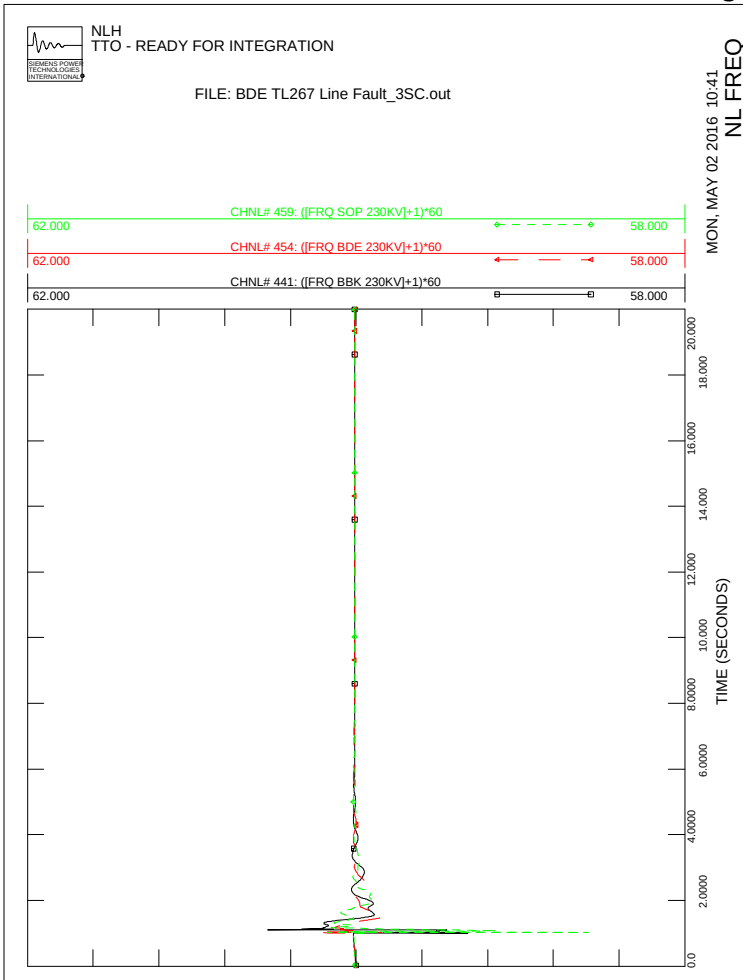


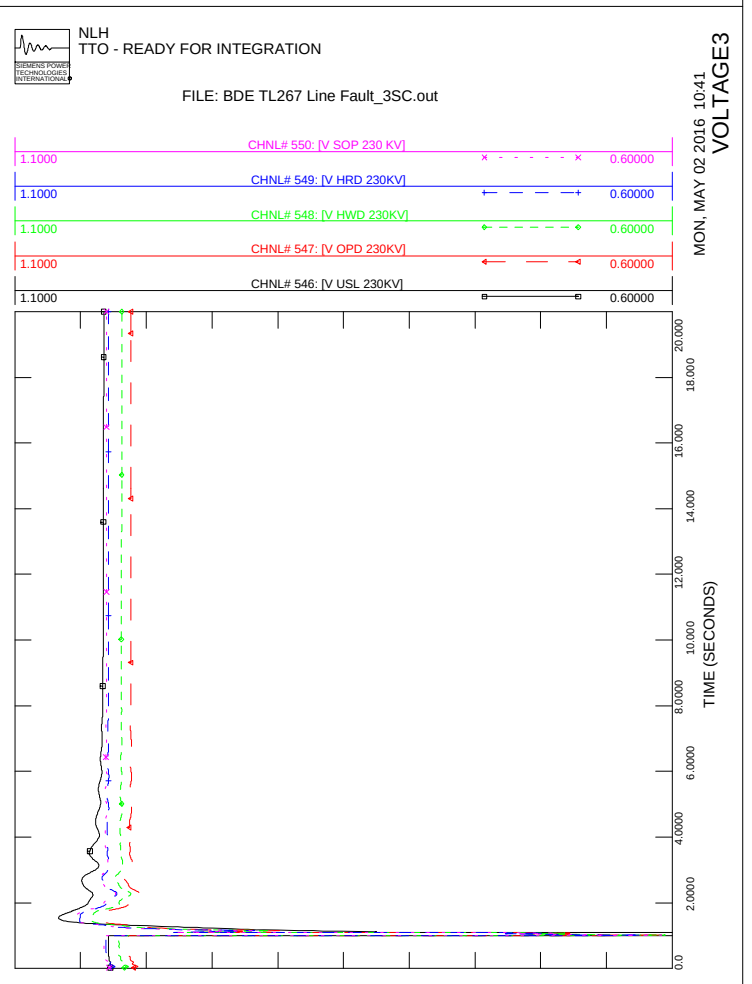
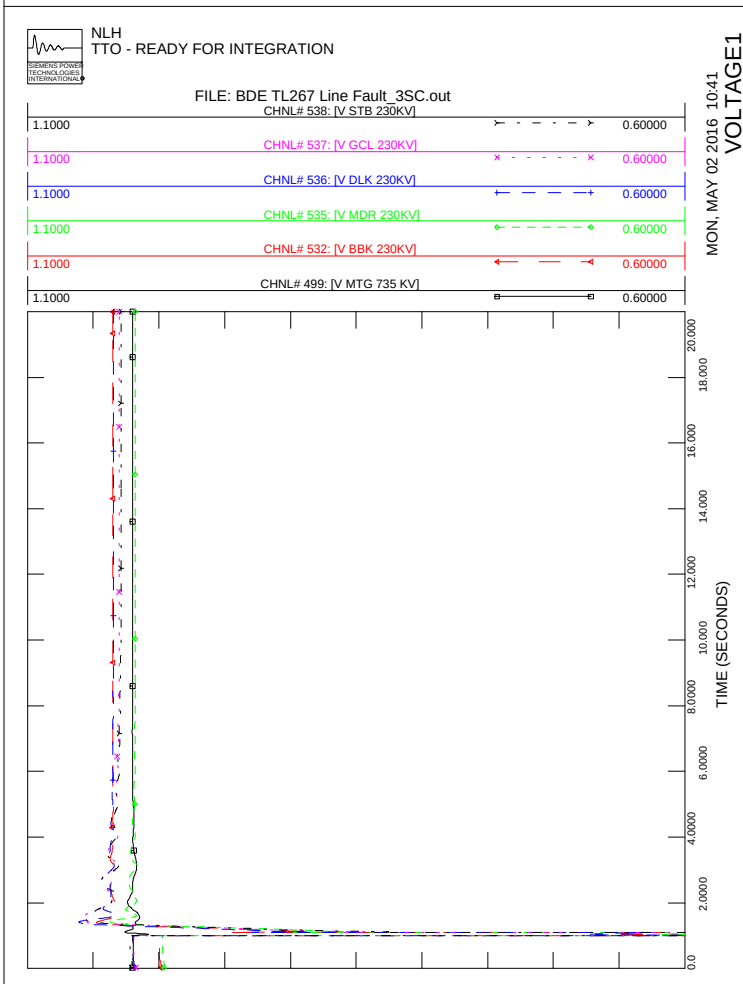
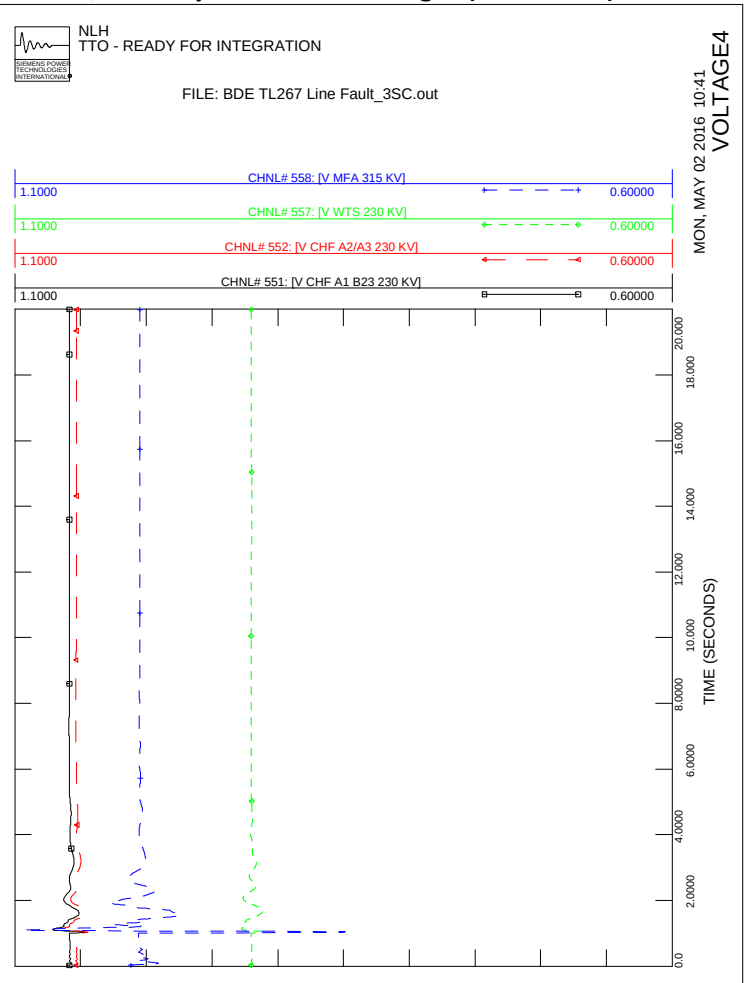
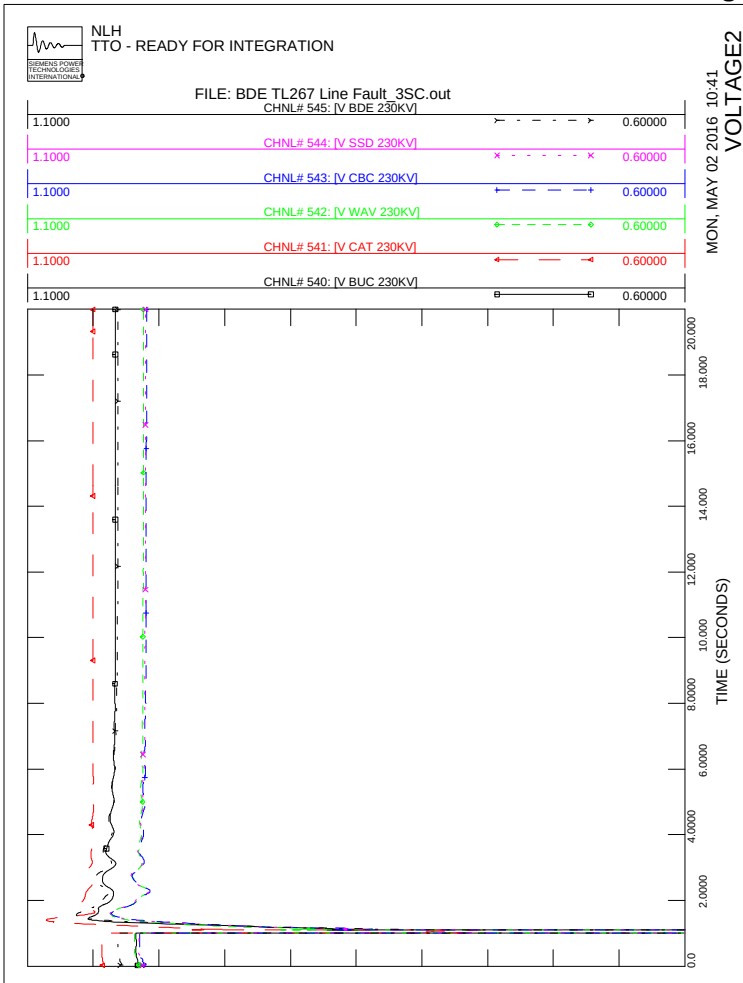


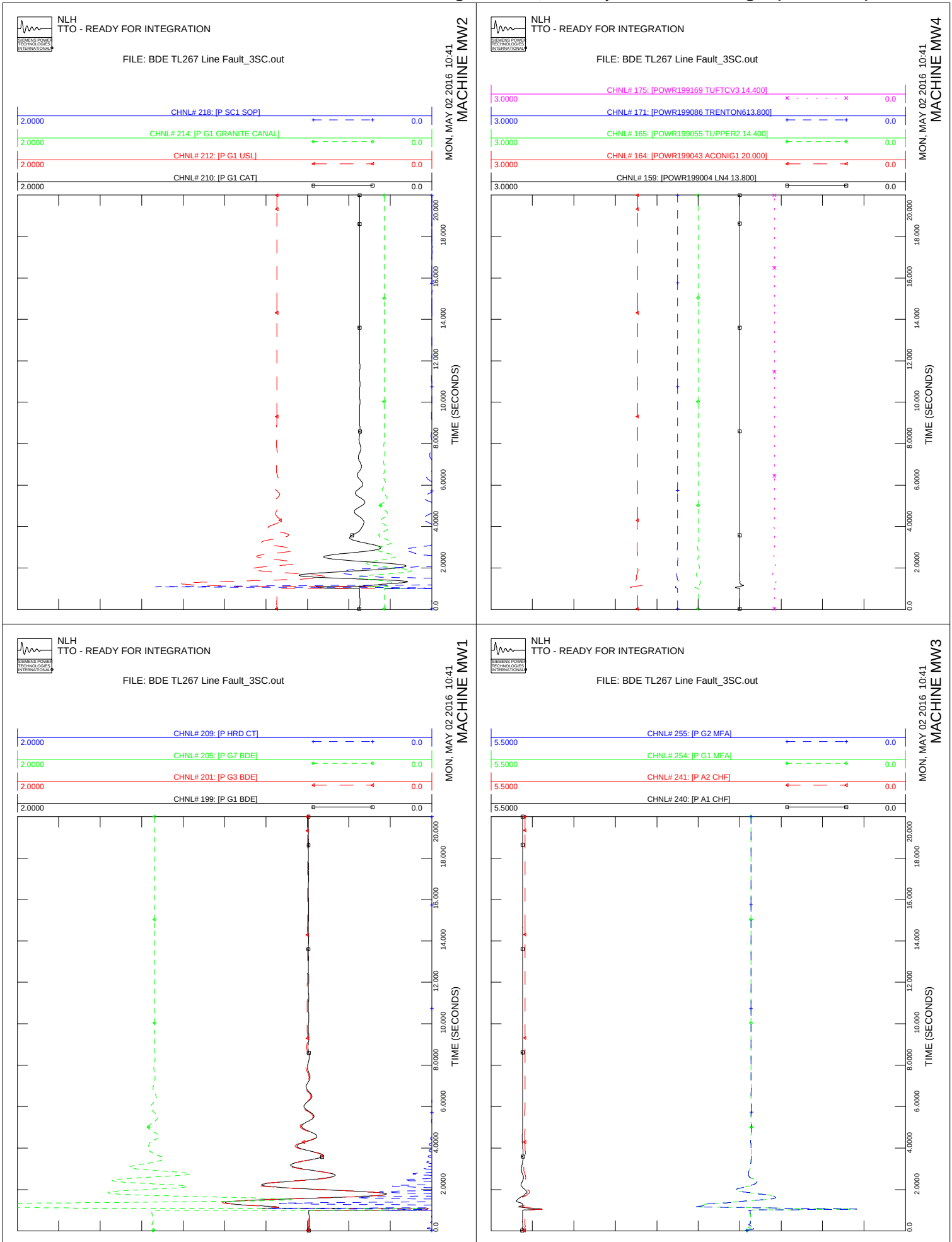


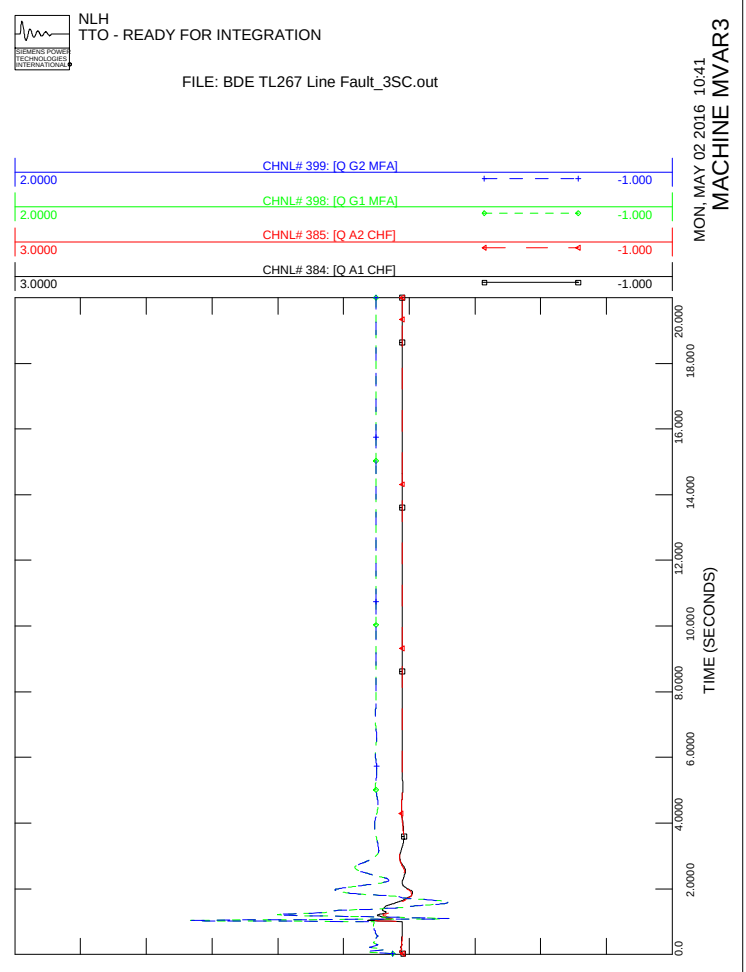
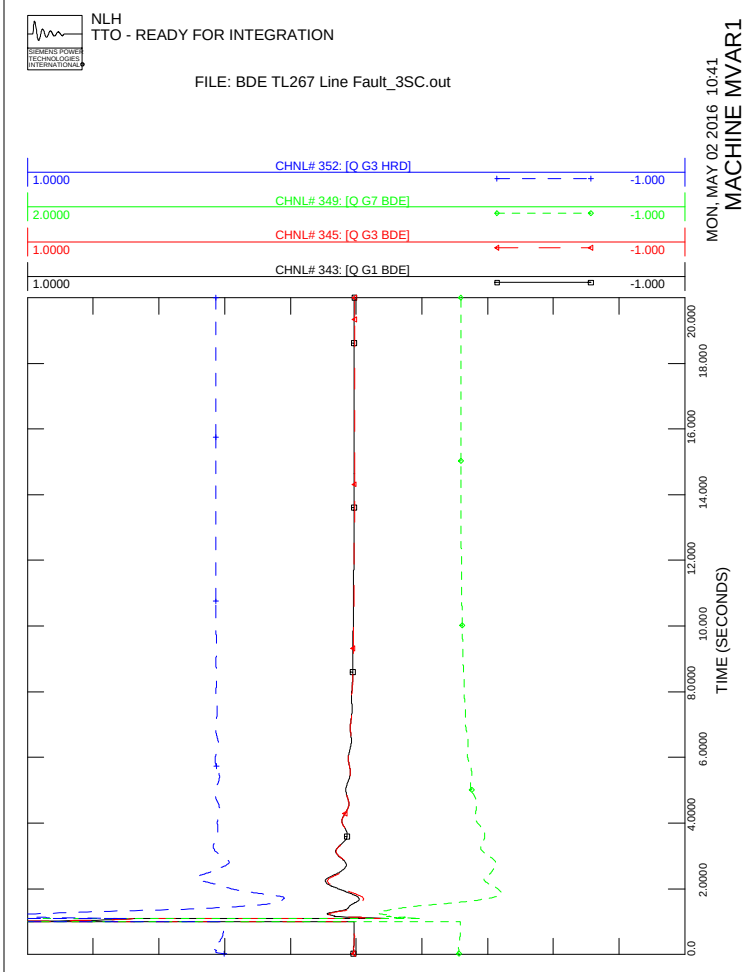
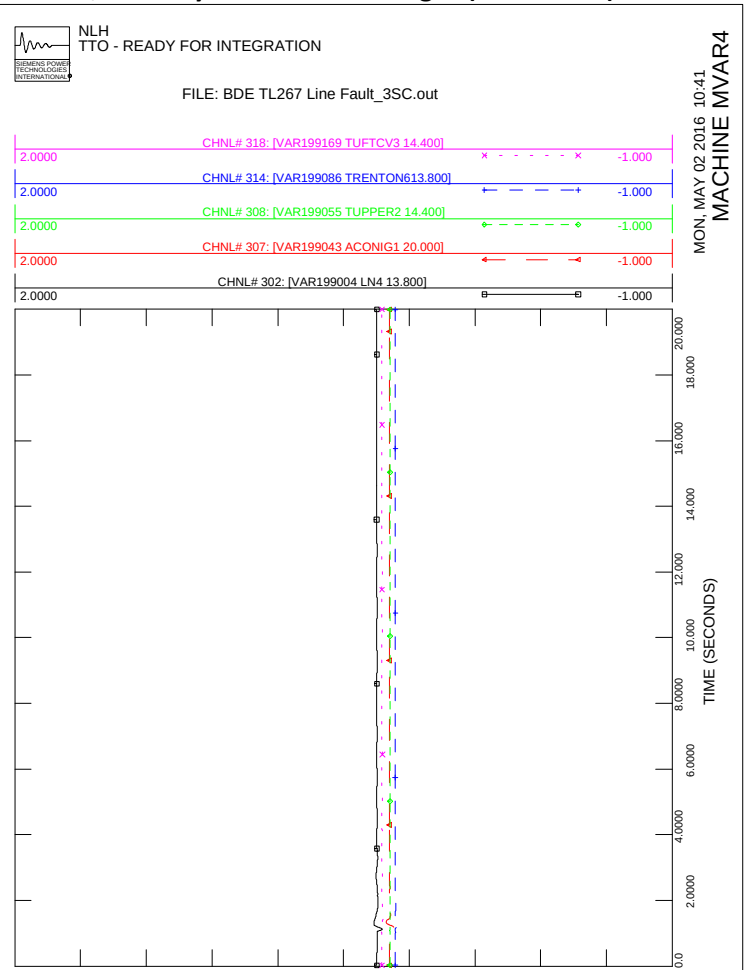
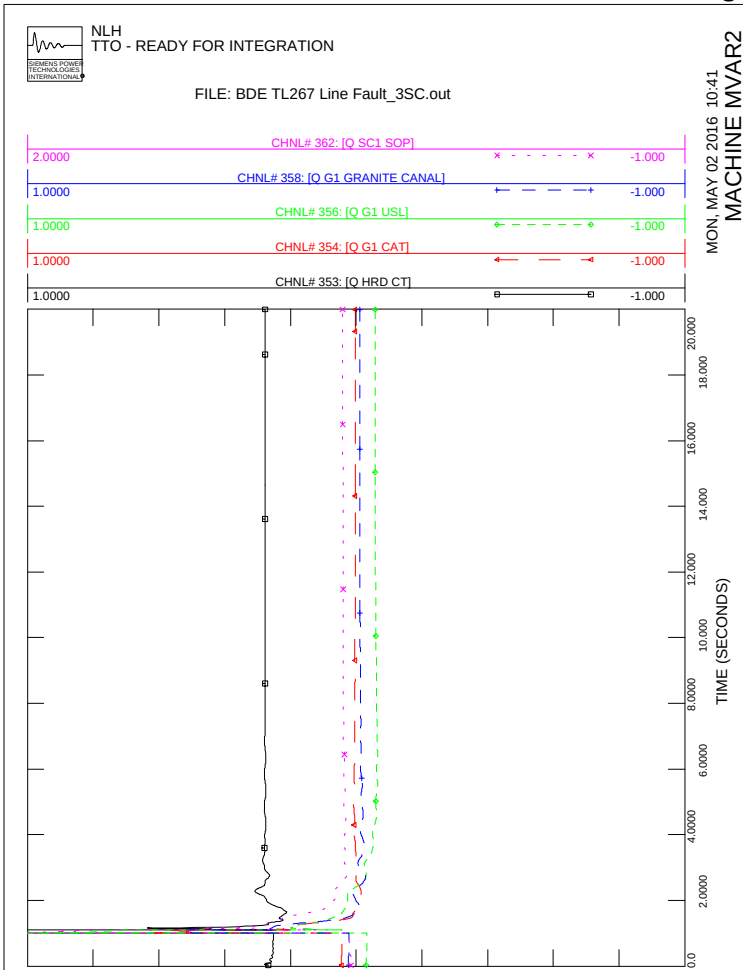


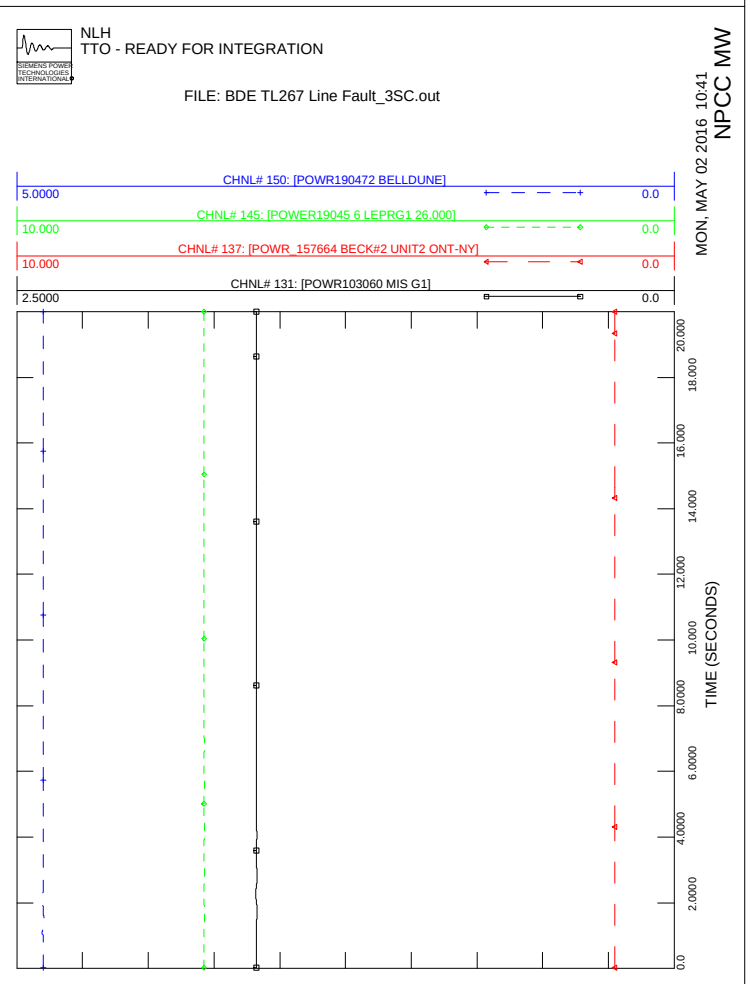
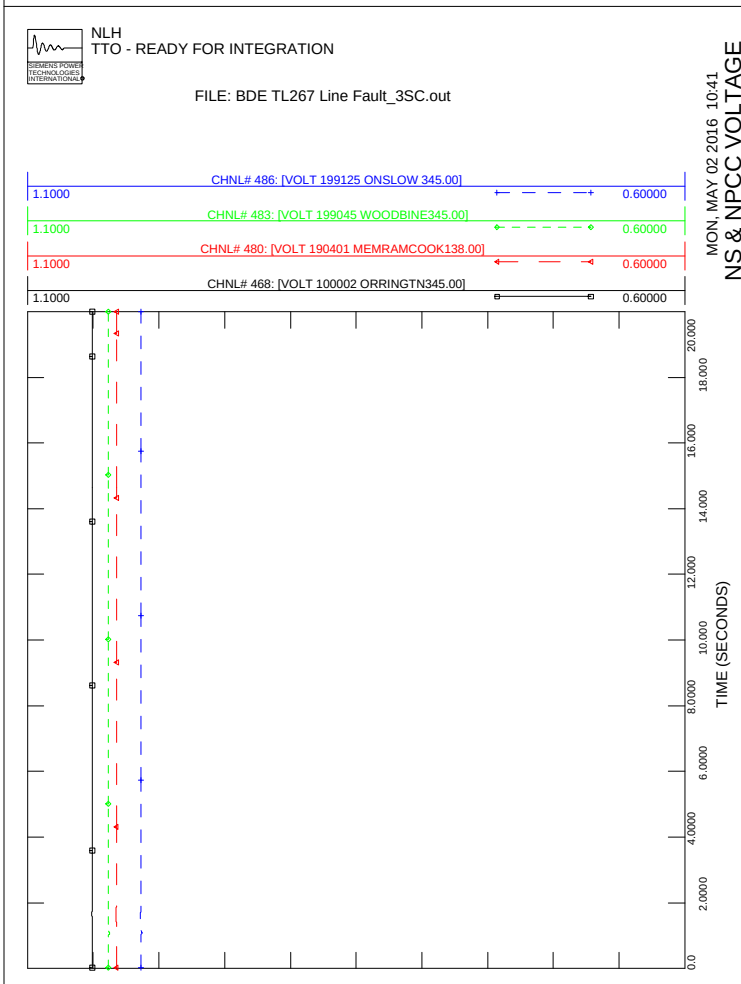
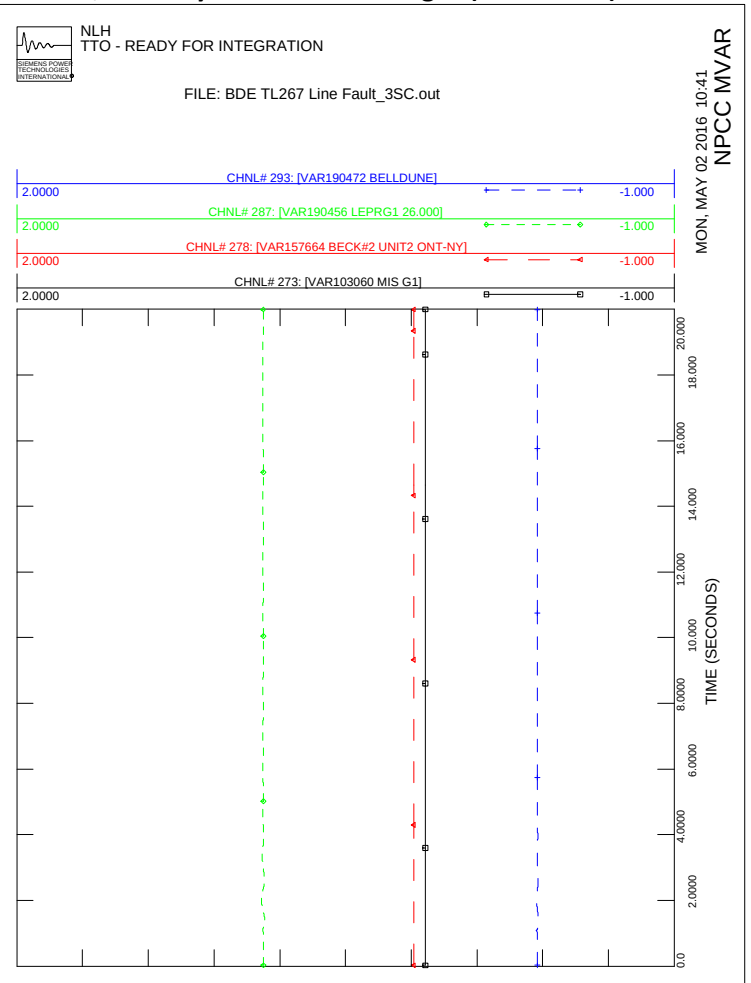
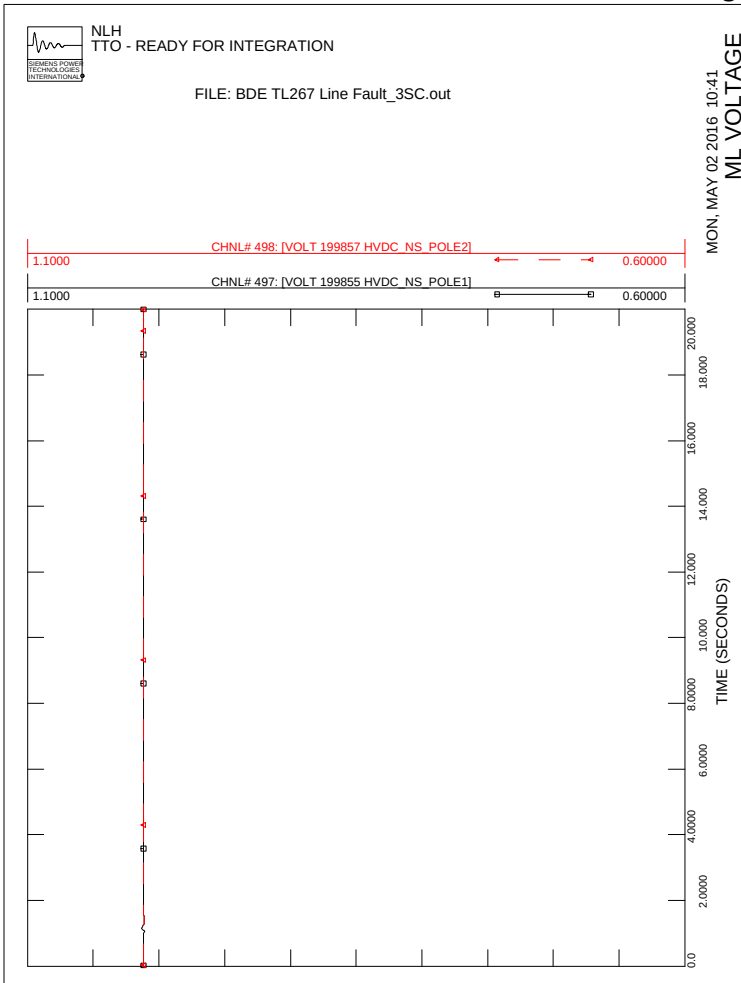


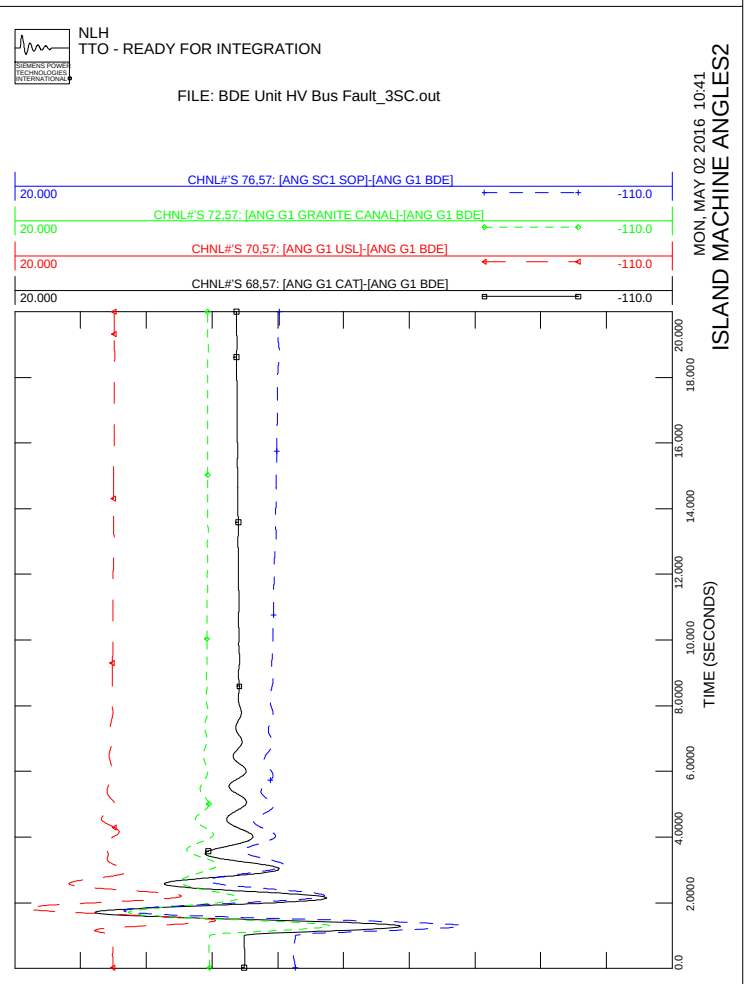
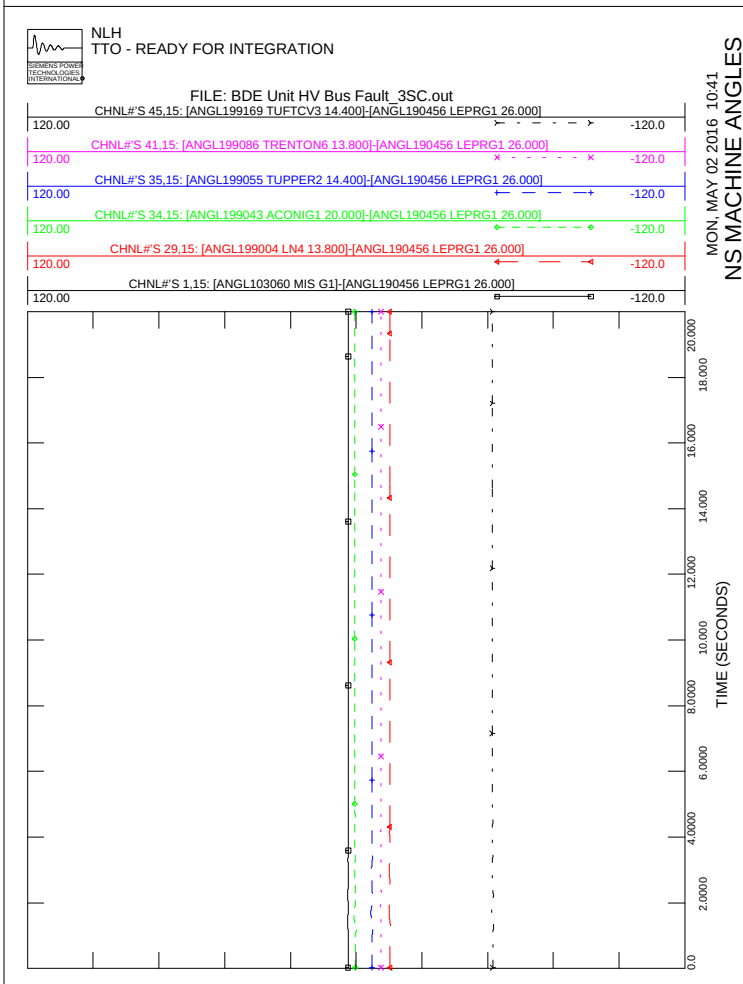
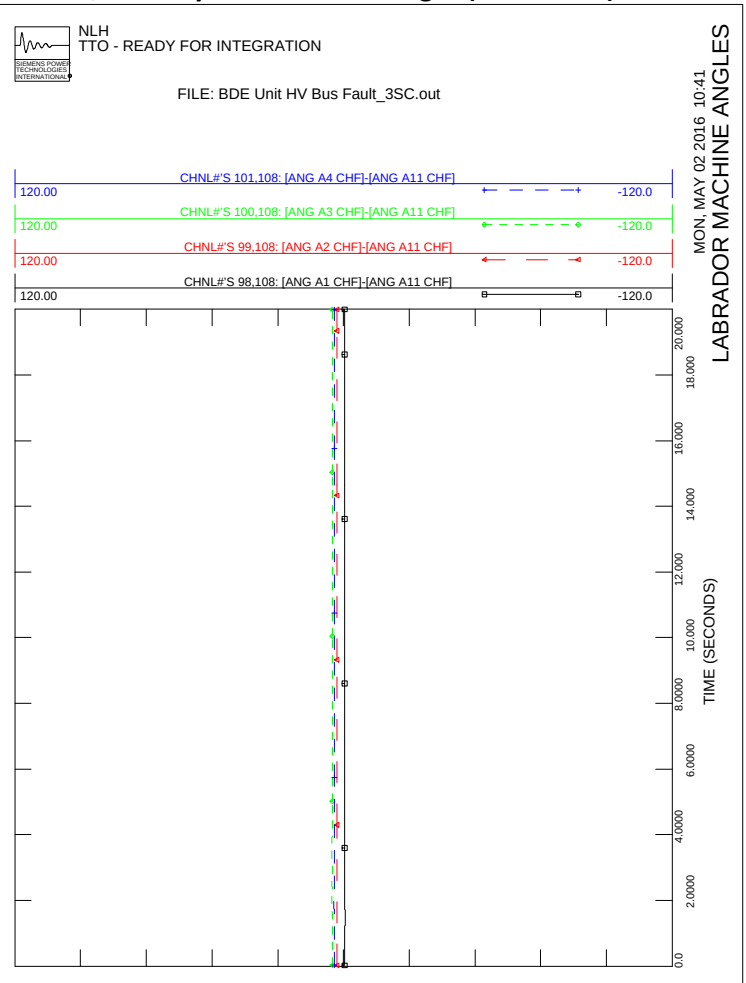
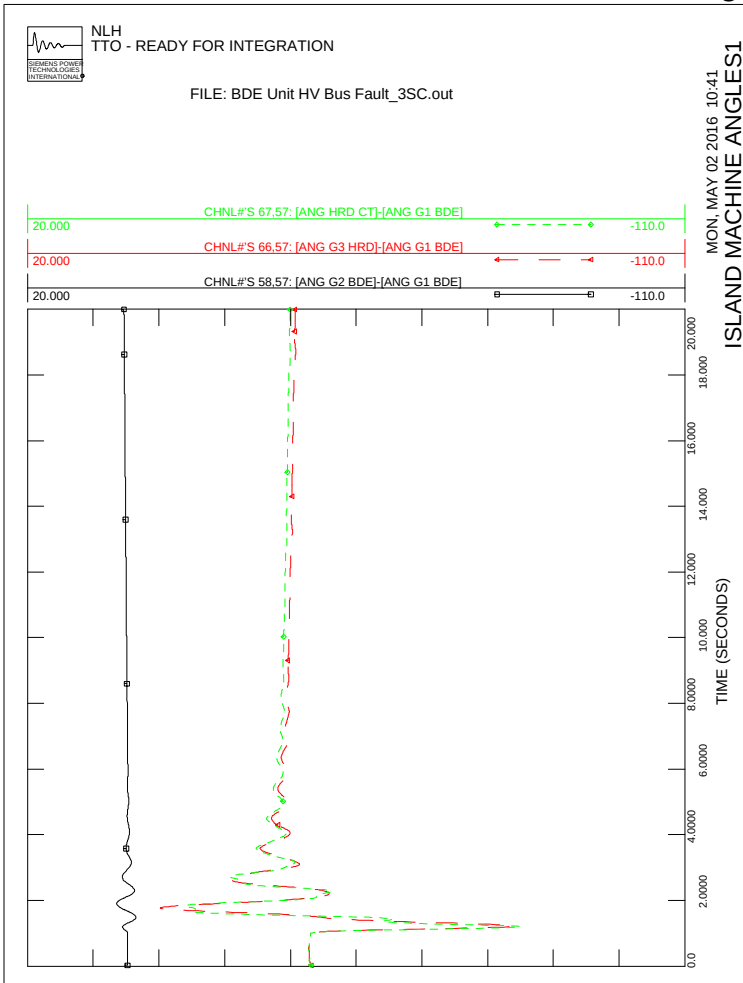






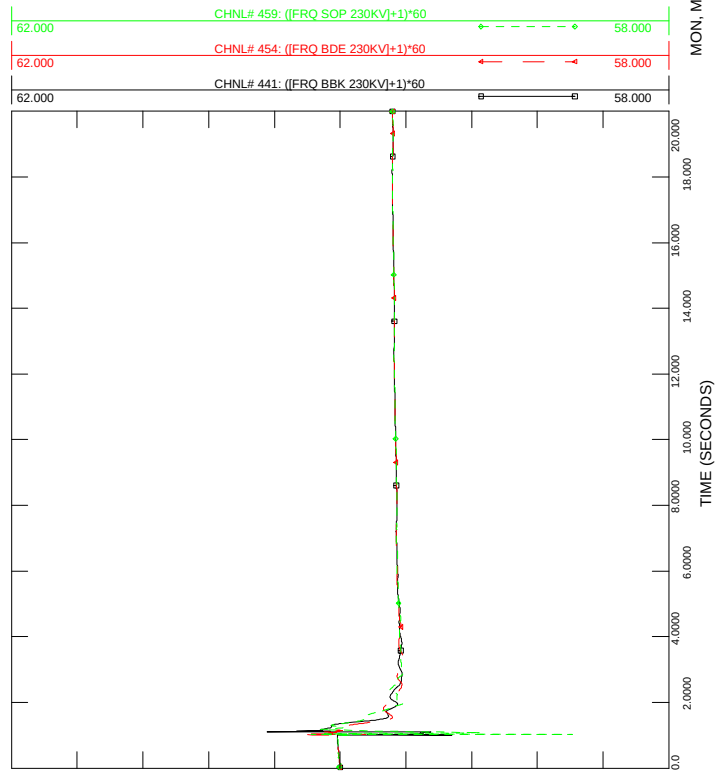




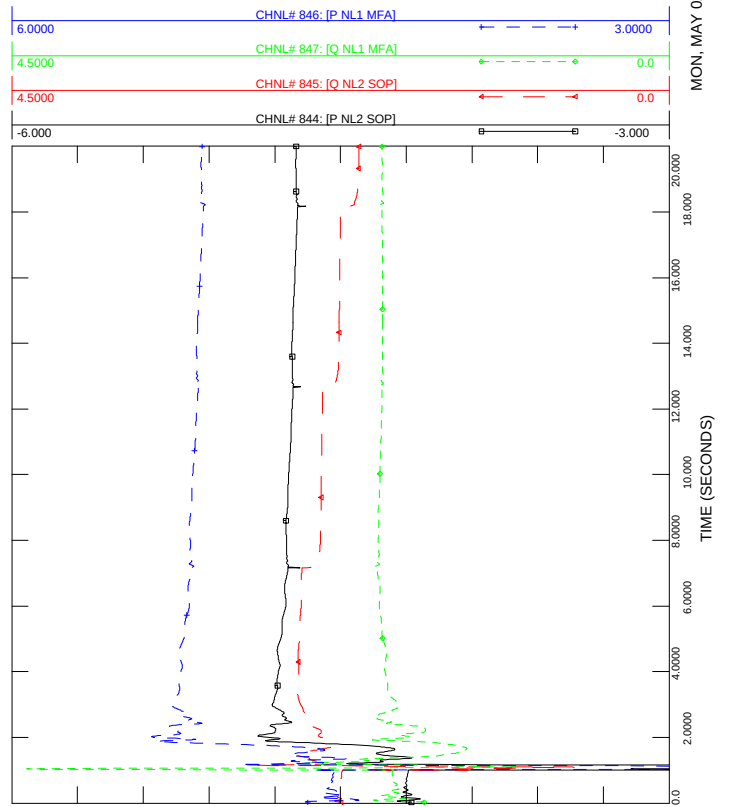


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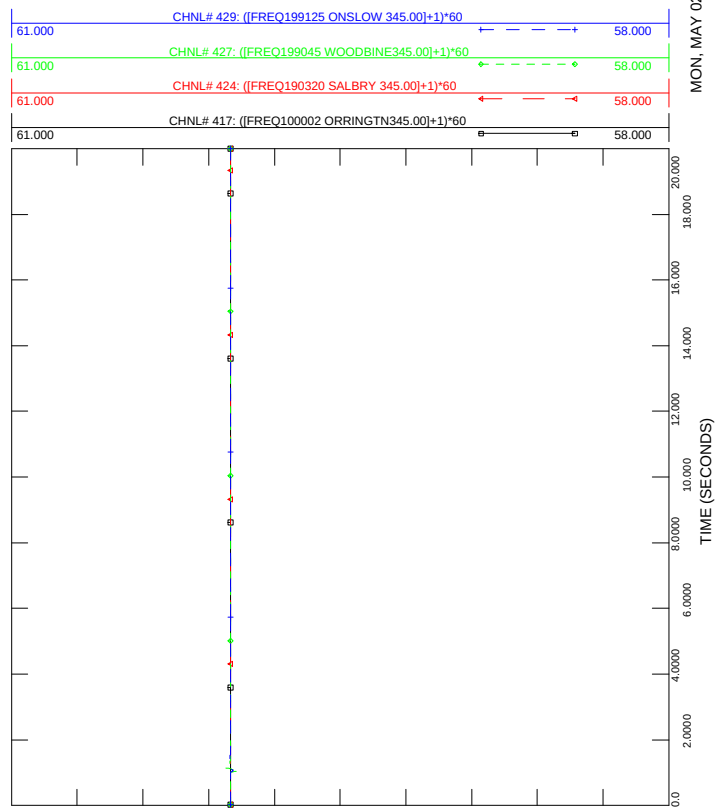
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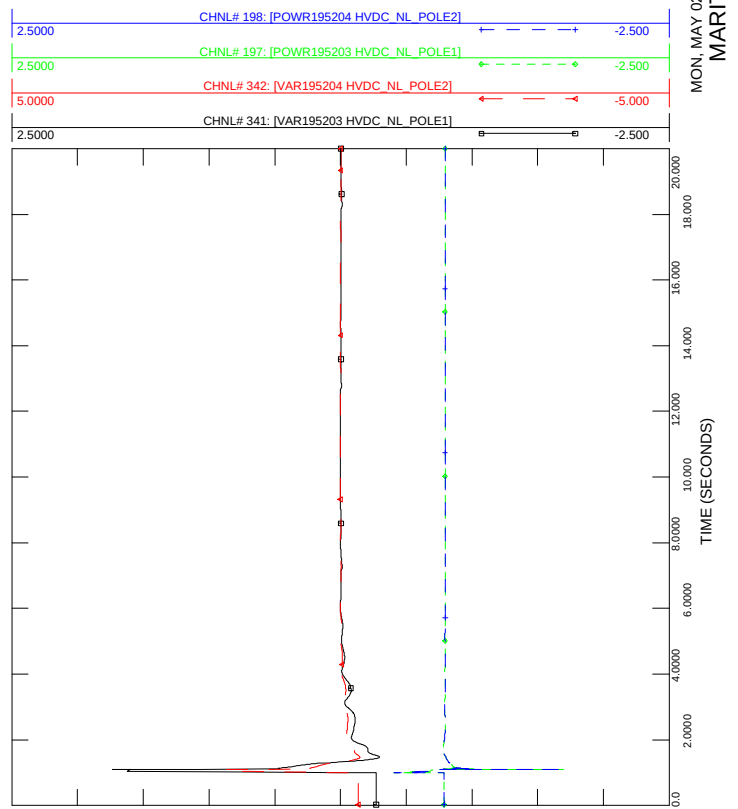
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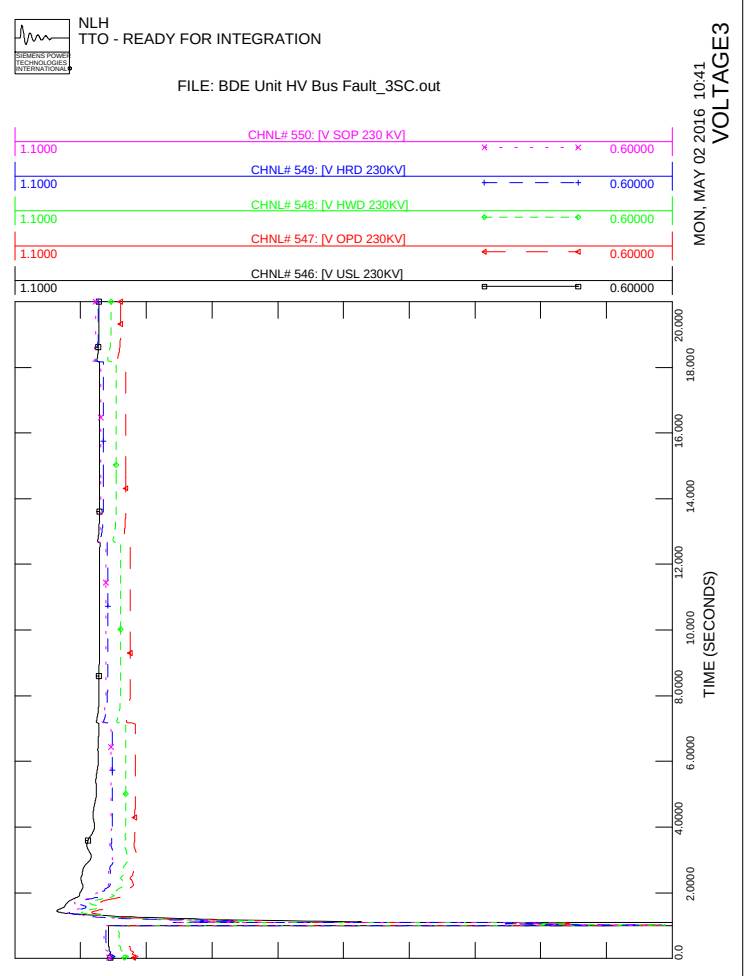
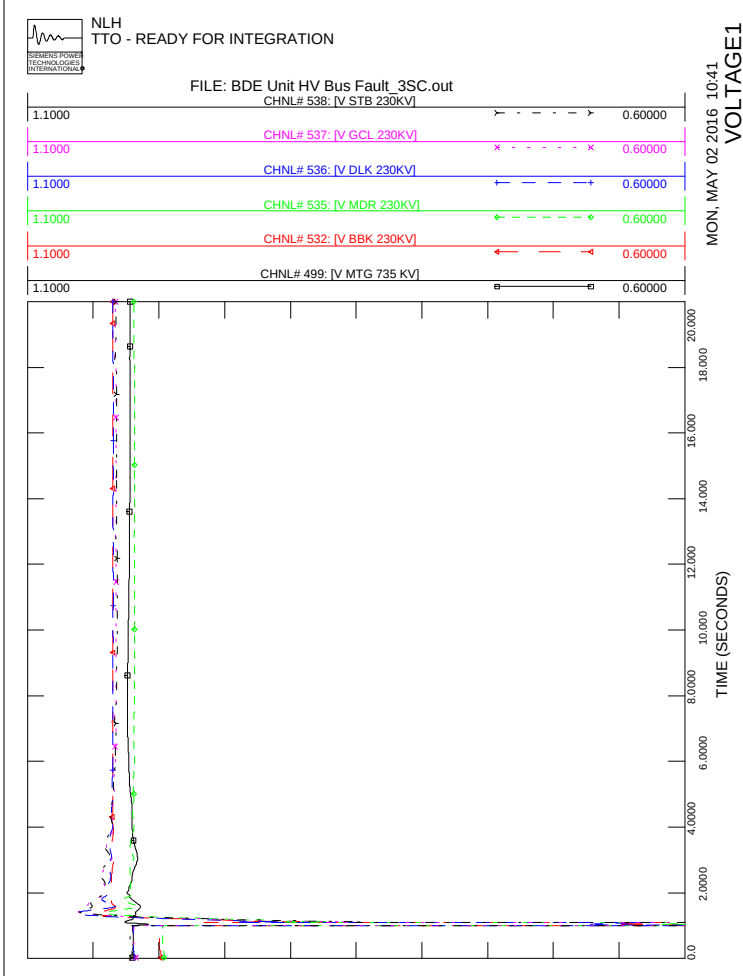
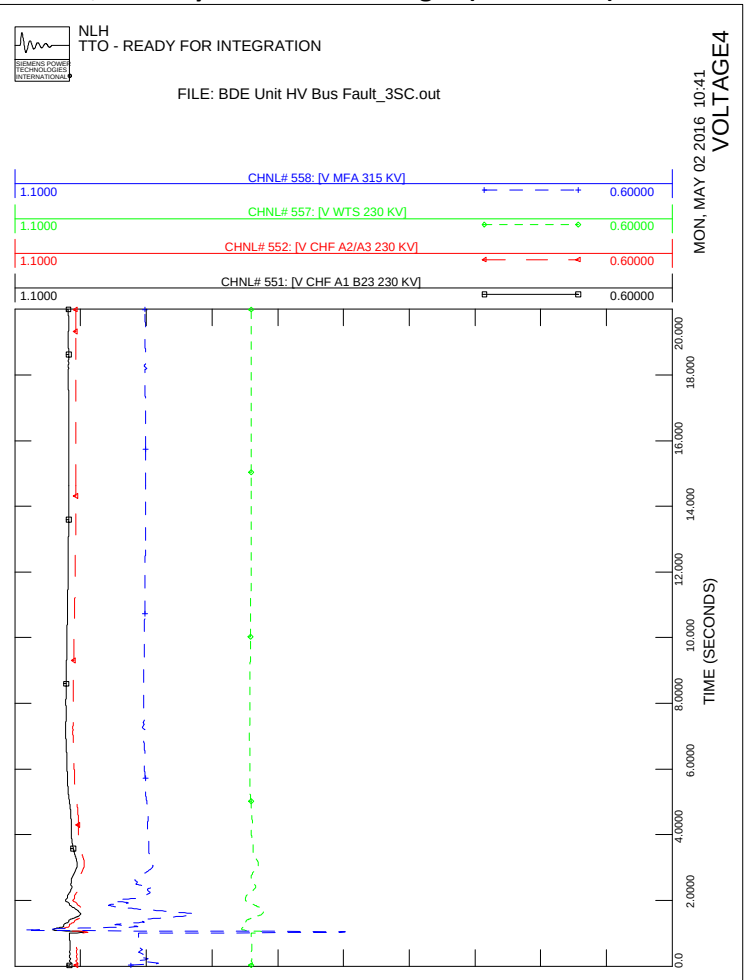
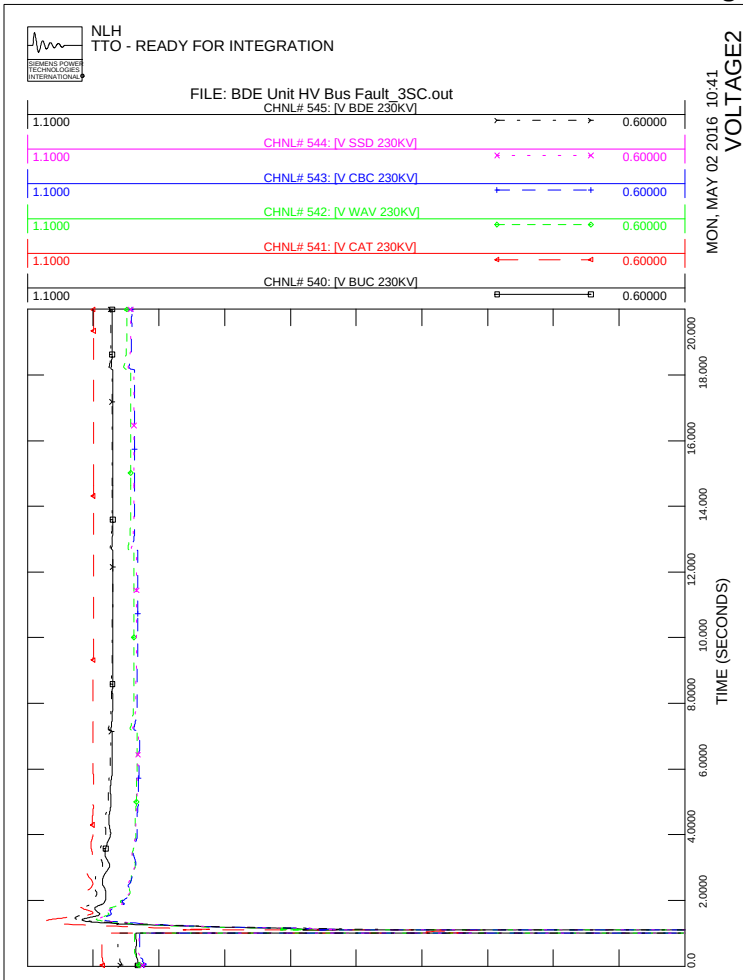
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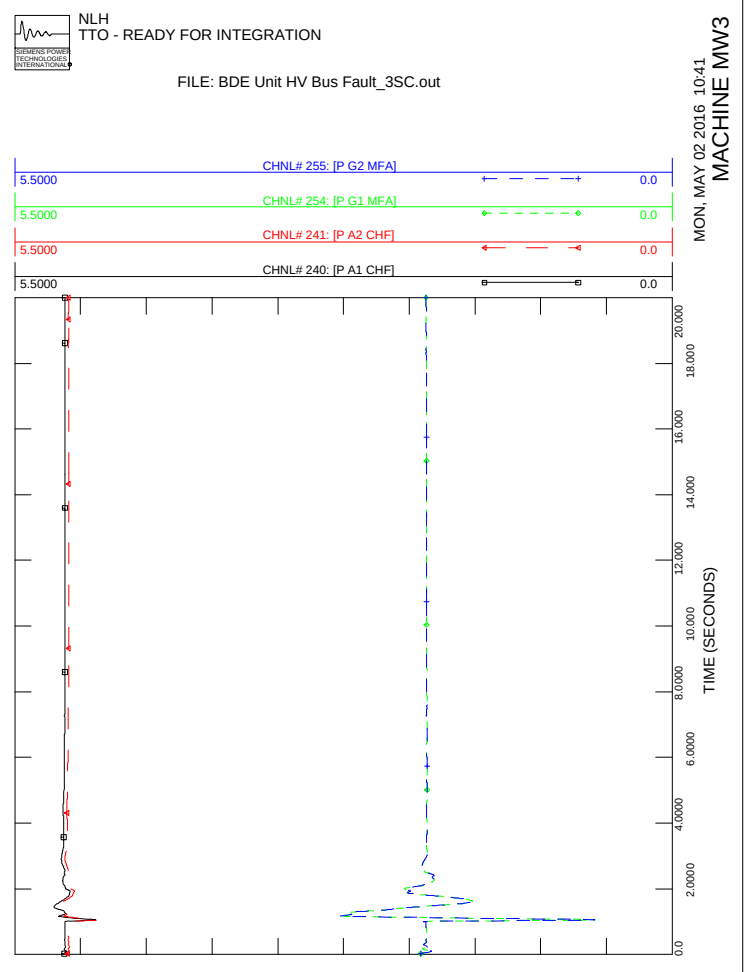
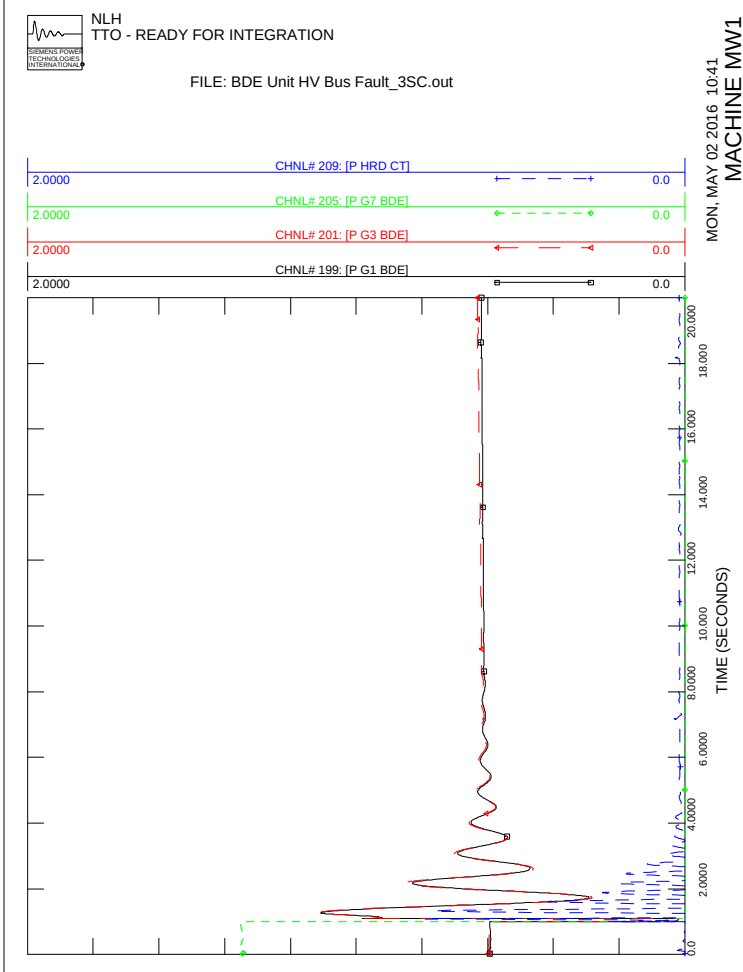
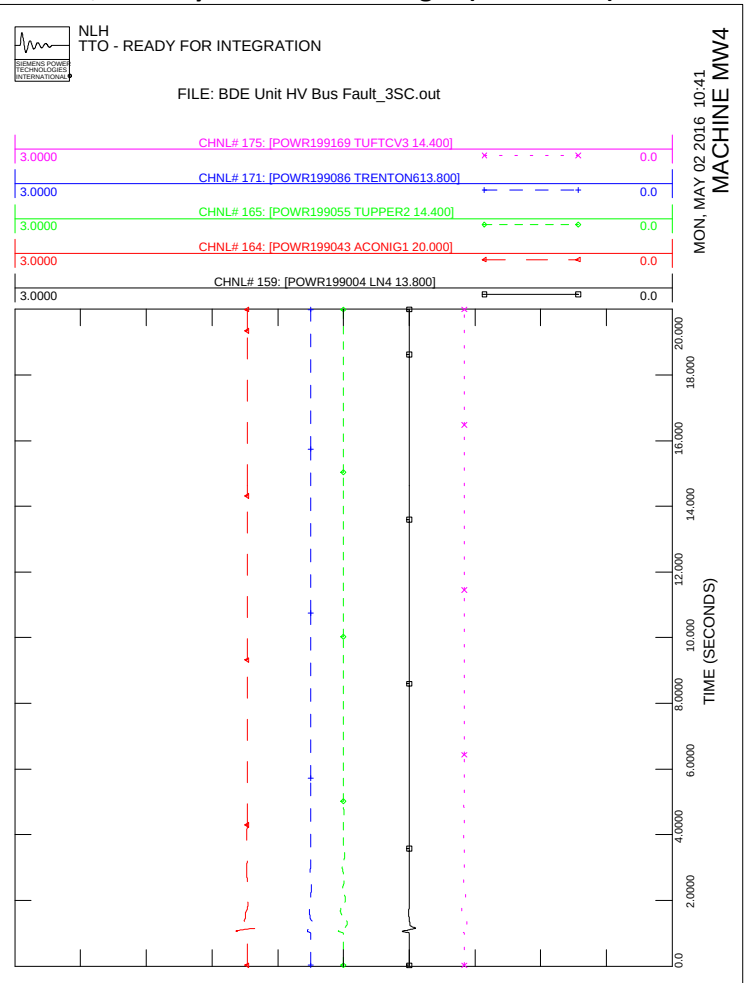
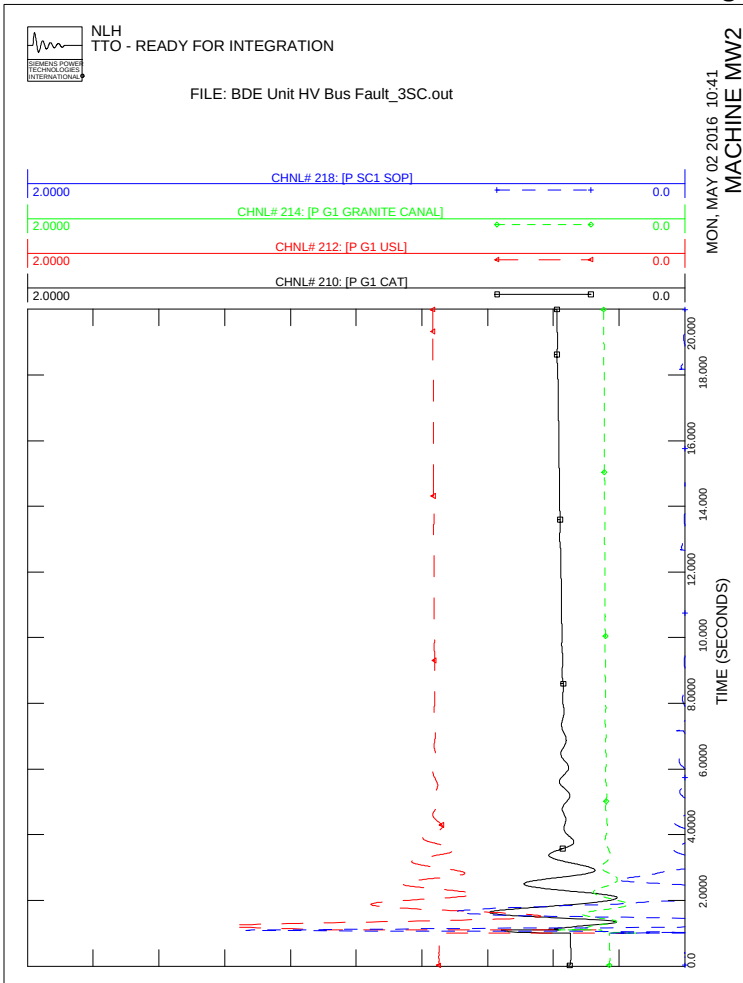
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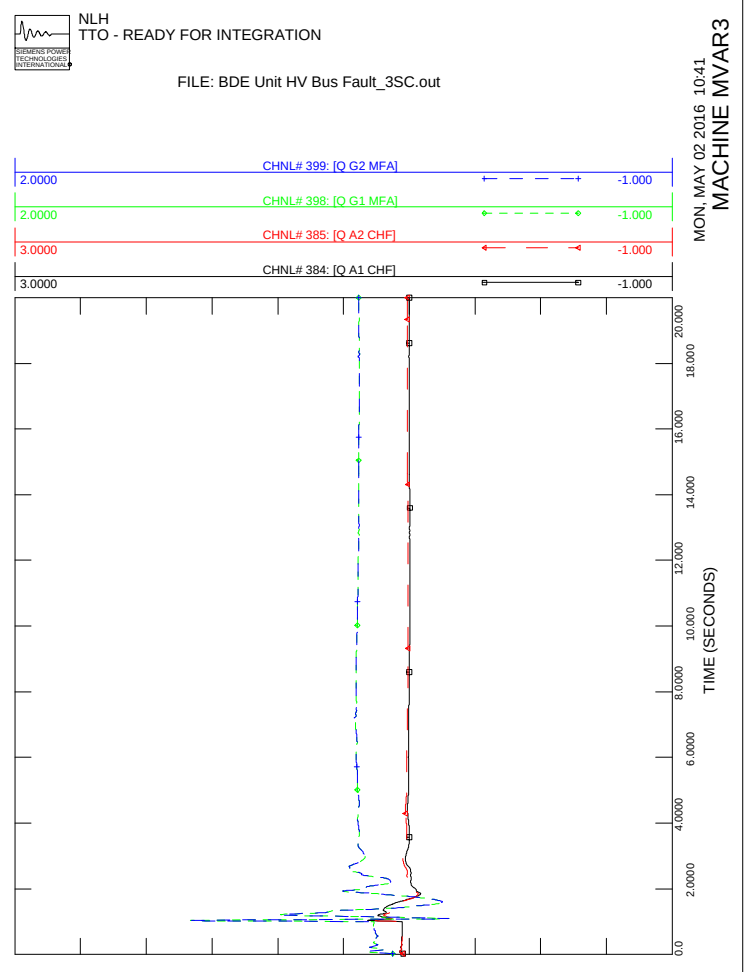
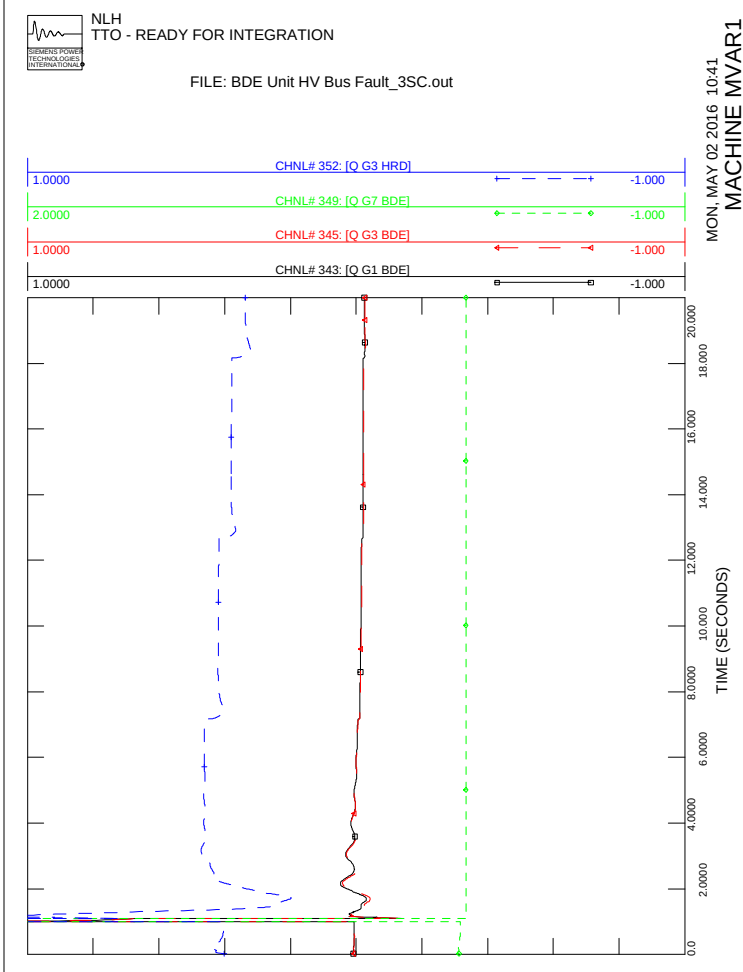
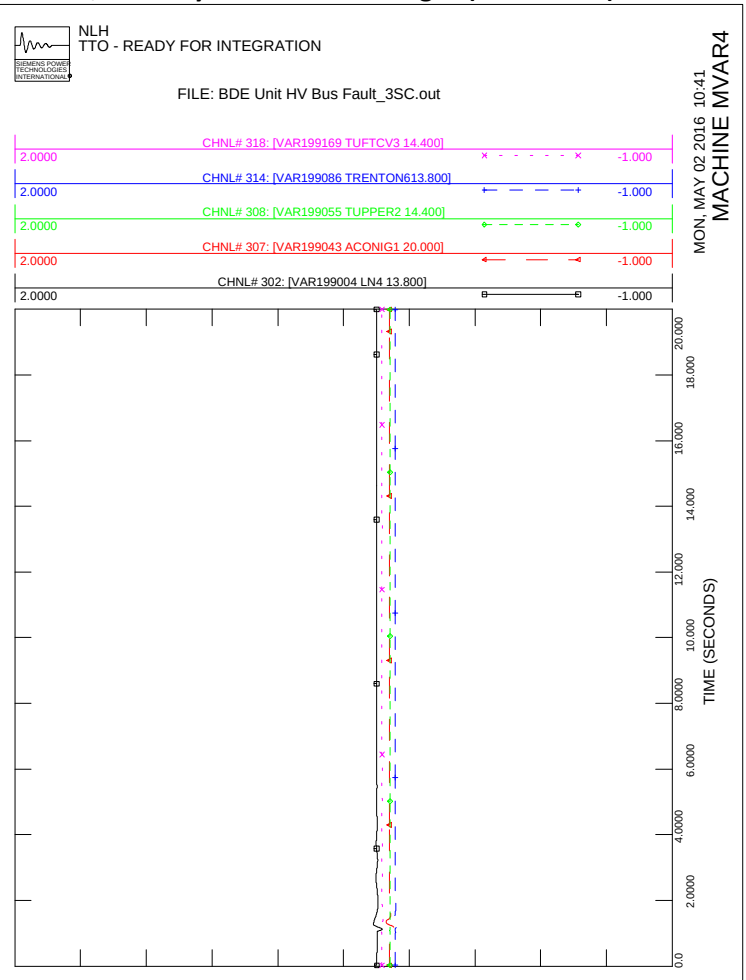
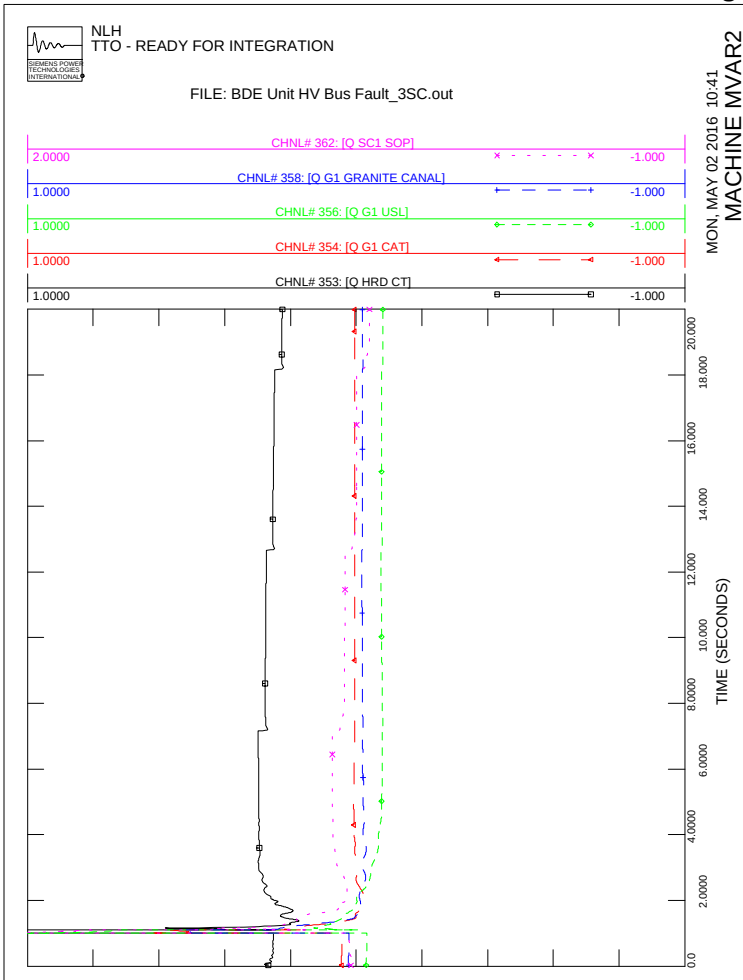
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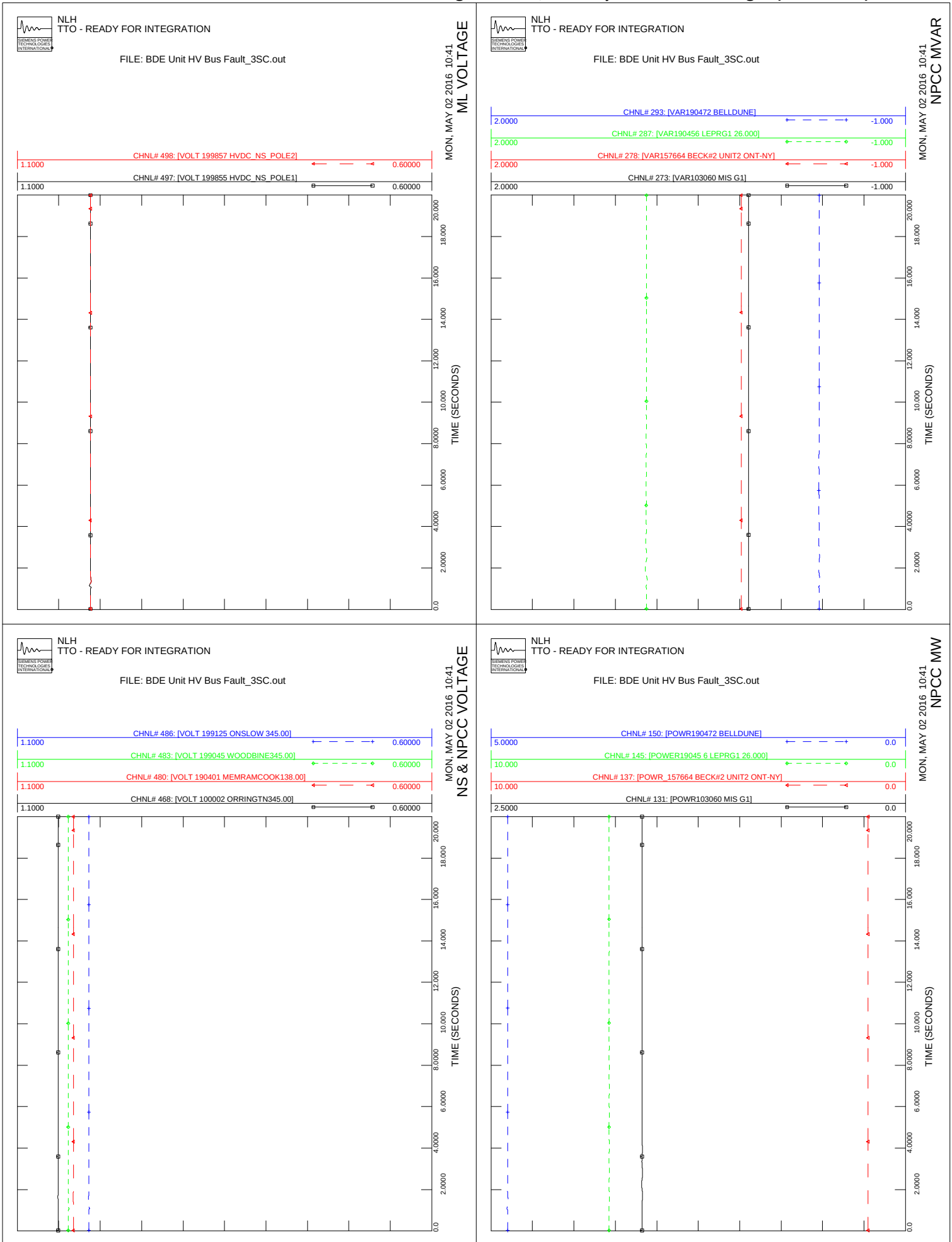
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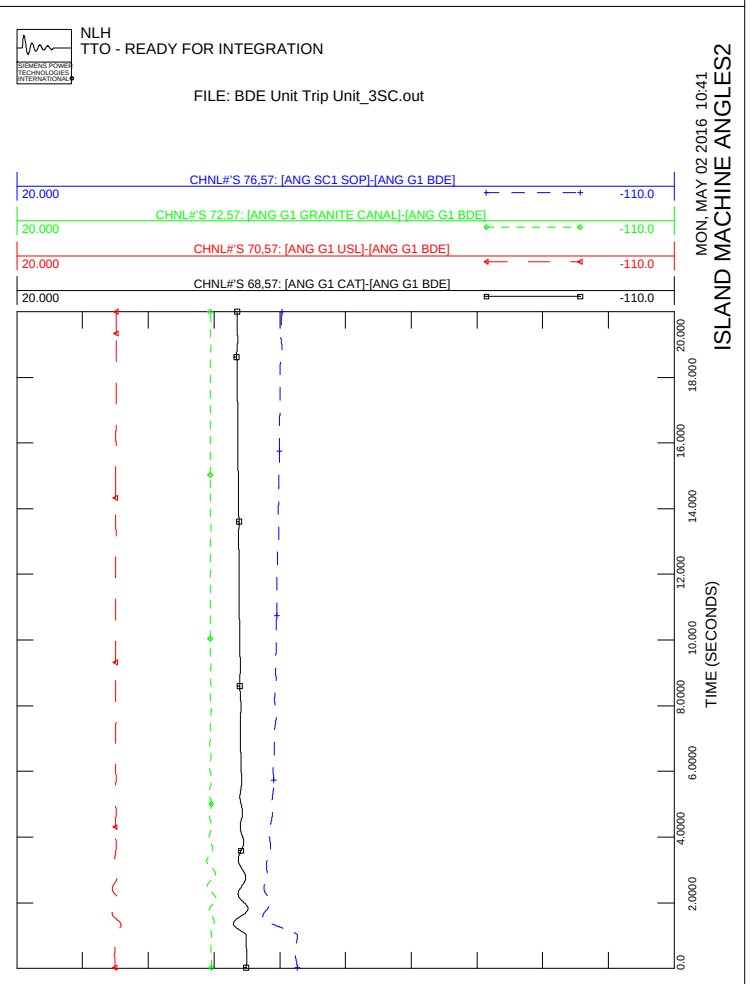
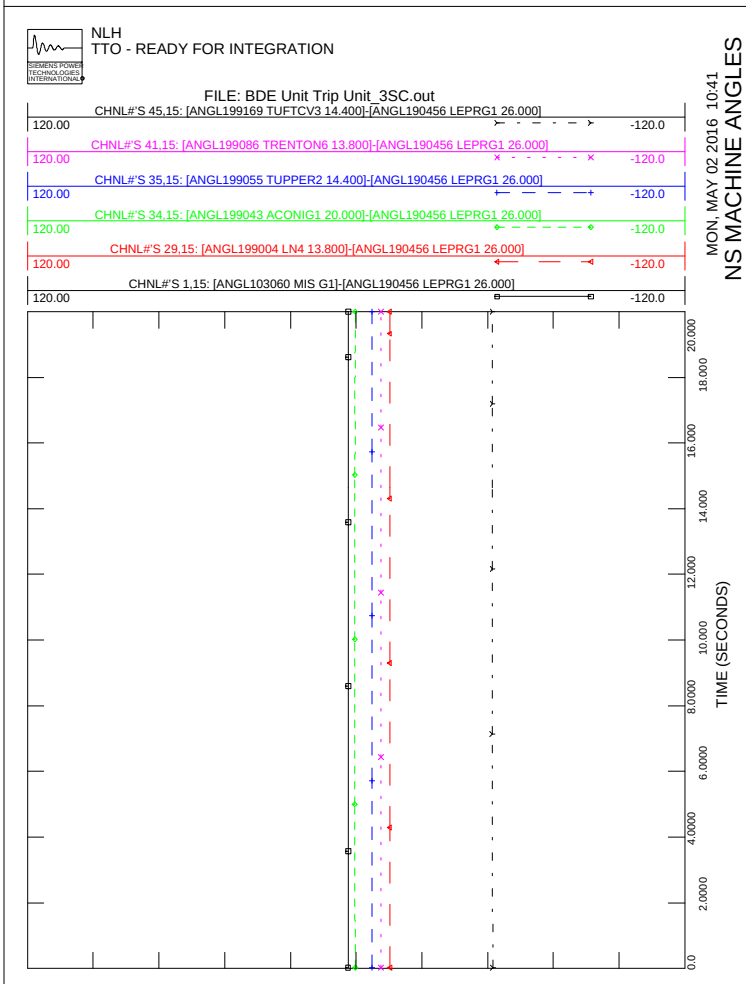
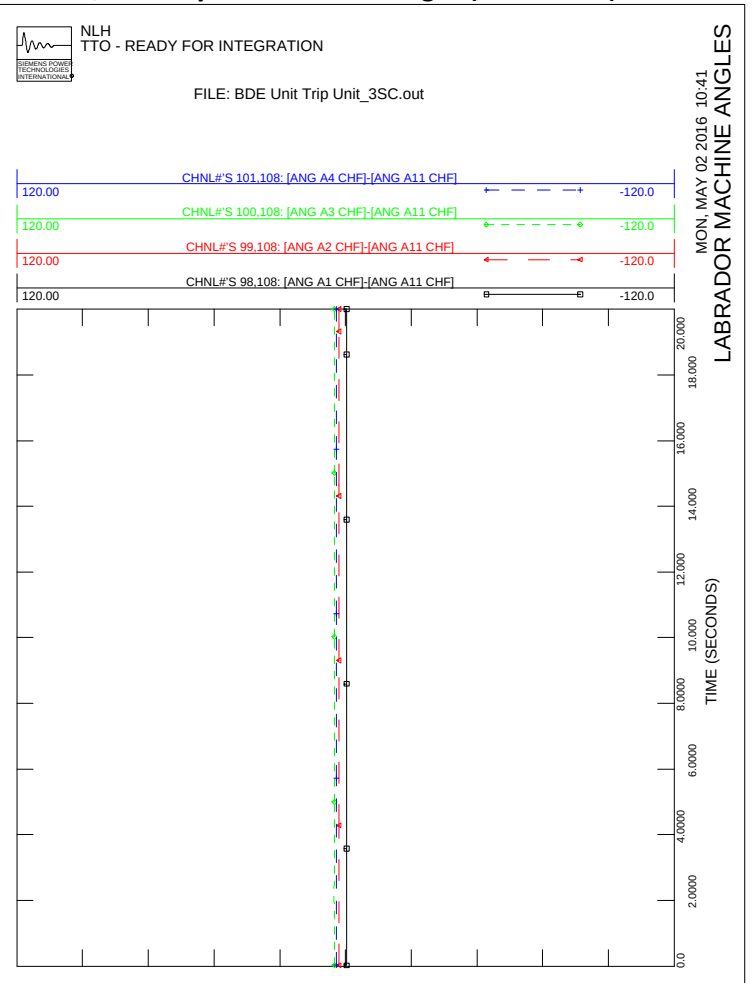
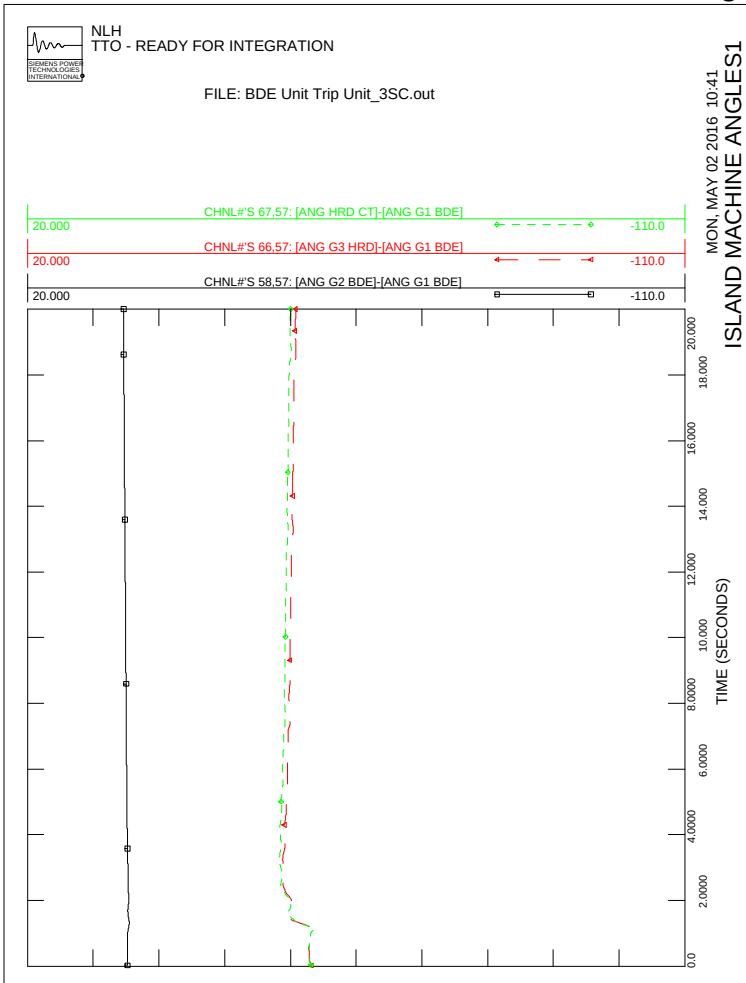






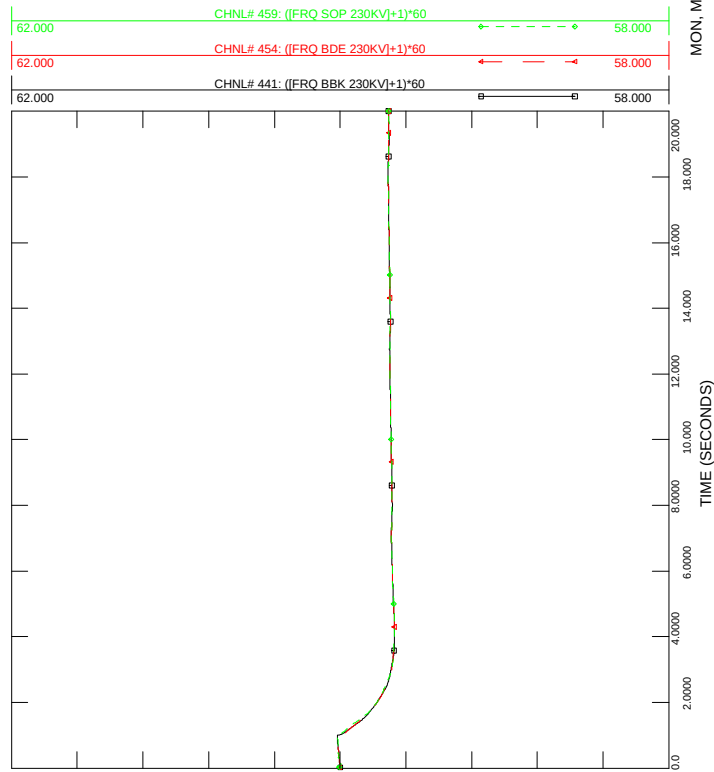




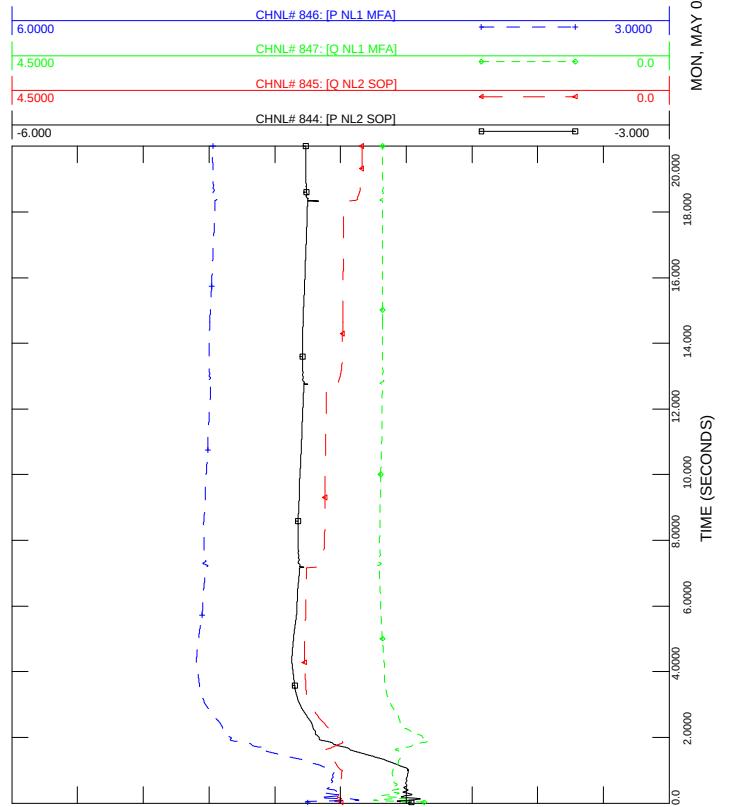


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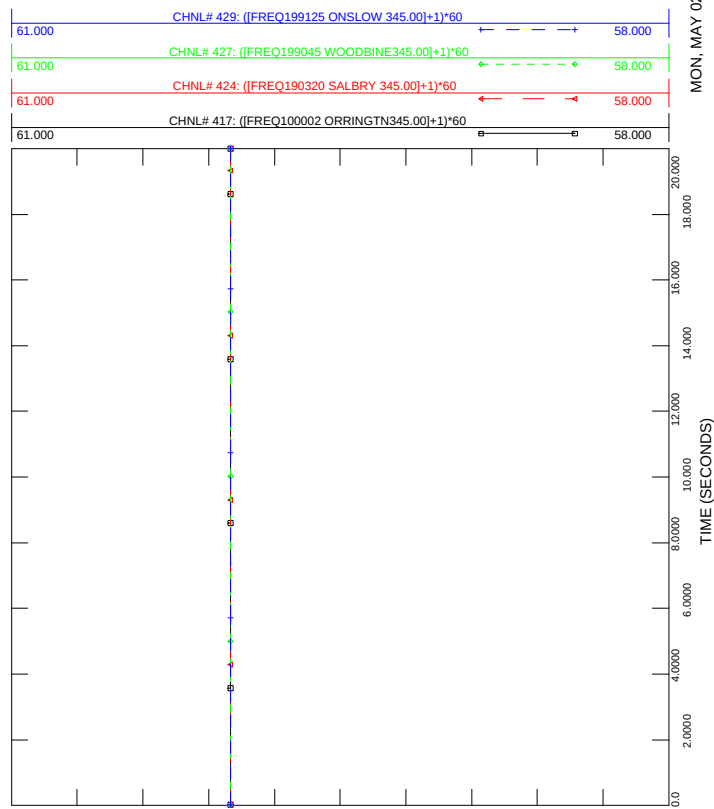
FILE: BDE Unit Trip Unit_3SC.out

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FILE: BDE Unit Trip Unit_3SC.out

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