

Supporting Information:

Development of a Practical Synthesis of ERK Inhibitor GDC-0994

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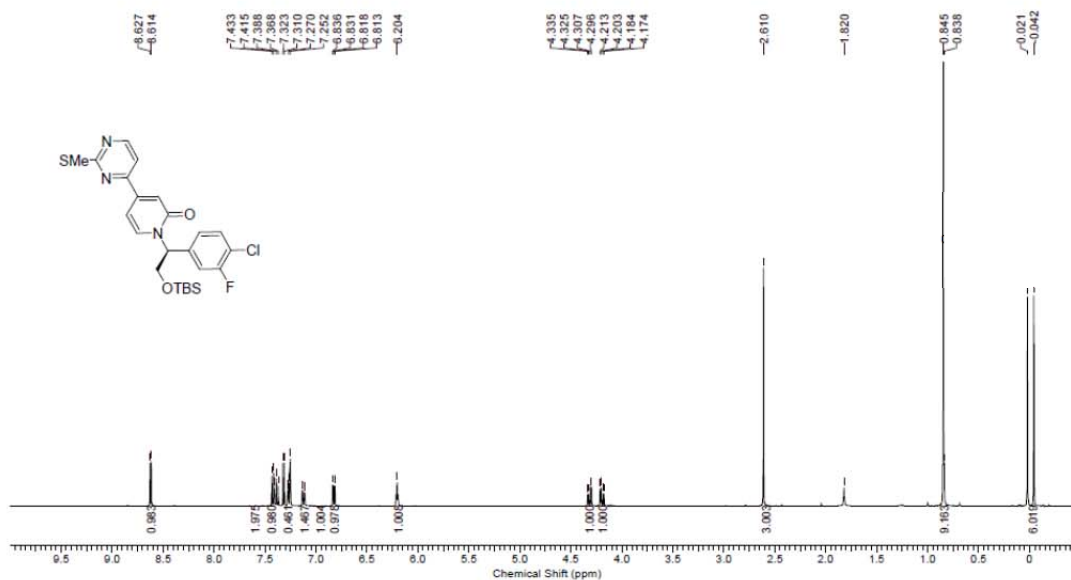
Corresponding Author

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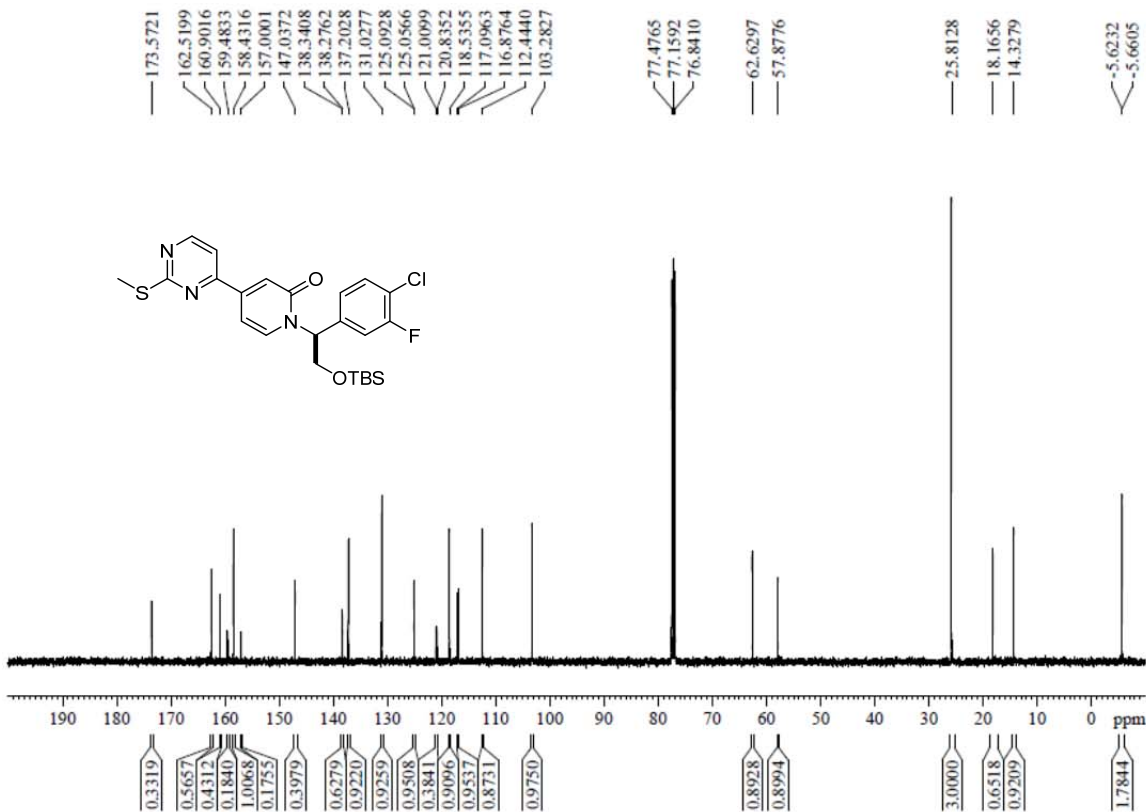
(S)-1-(2-(((*tert*-butyldimethylsilyl)oxy)-1-(4-chloro-3-fluorophenyl)ethyl)-4-(2-(methylthio)pyrimidin-4-yl)pyridin-2(1*H*)-one (6).

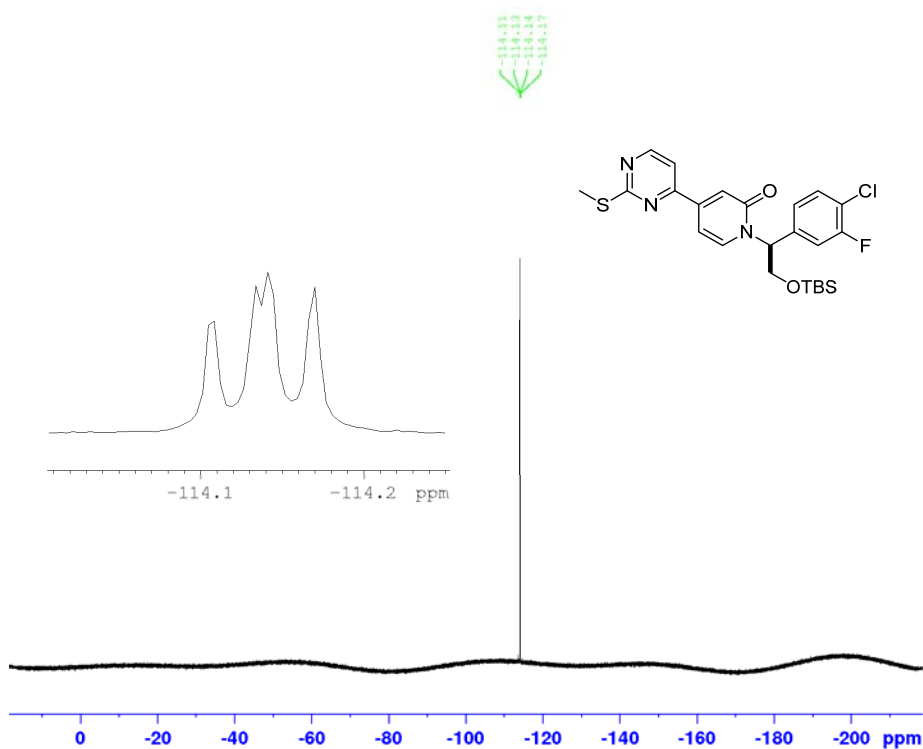
Compound ID: C12041908-H

F000550643 P05621-018-H-STD CDCl₃ 400MHz



p05621-018-H-STD CDCl₃ 13C





Current Data Parameters
NAME sulfide
EXPNO 10
PROCNO 1

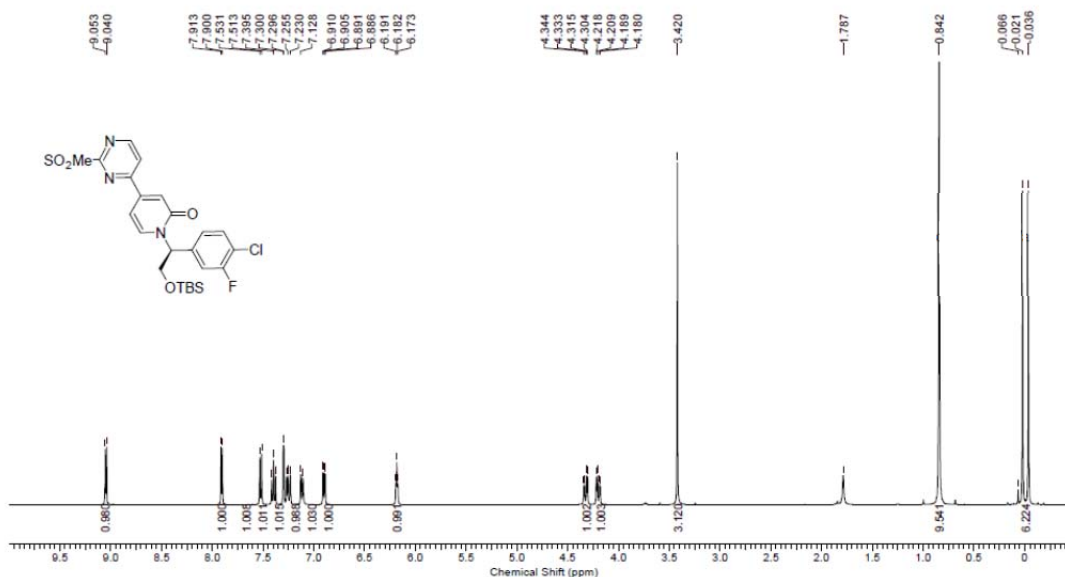
F2 - Acquisition Parameters
Date_ 20170202
Time 10:30 h
INSTRUM spect
PROBHD E104275_0078 (1
PULPROG zgpg30
TD 131072
SOLVENT CDCl3
NS 16
DS 4
SWH 66964.289 Hz
FIDRES 1.021794 Hz
AQ 0.9786710 sec
RG 456
DW 7.467 usec
DE 6.50 usec
TE 294.9 K
D1 1.00000000 sec
TDO 1
SFO1 282.3761148 MHz
NUC1 19F
P1 9.60 usec
PLW1 24.00000000 W

F2 - Processing parameters
SI 65536
SF 282.4043550 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

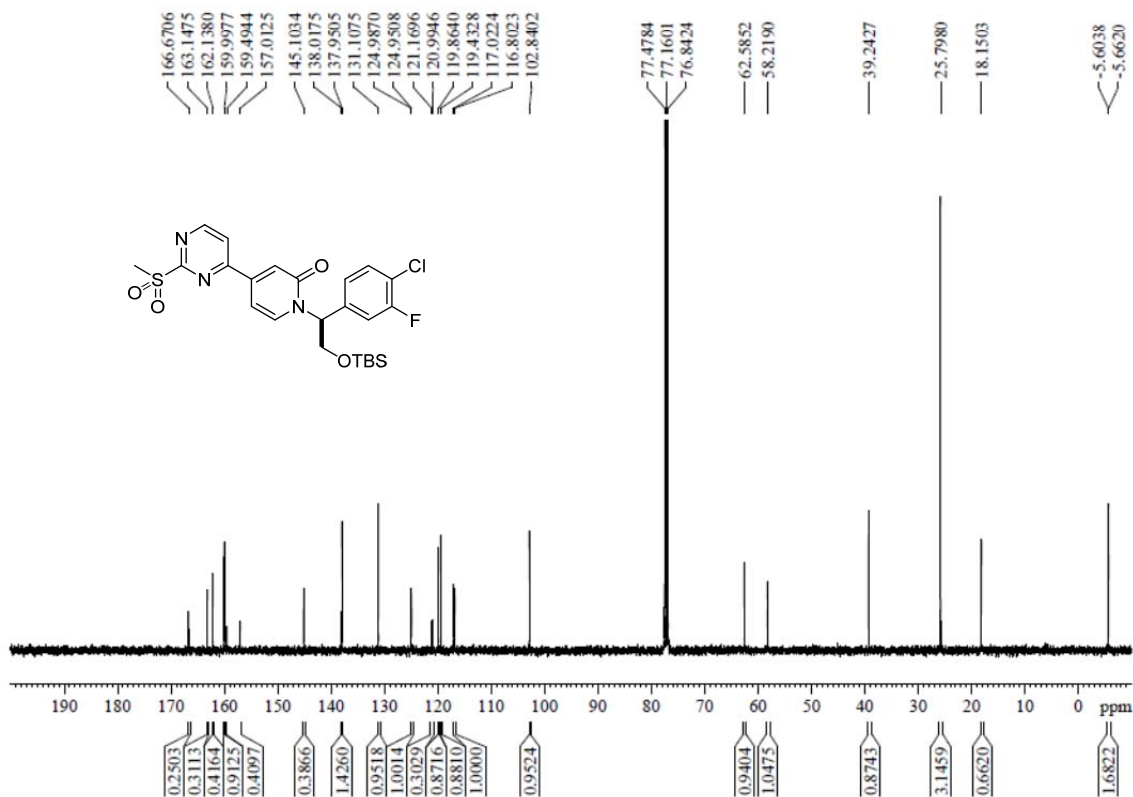
(S)-1-(2-((*tert*-butyldimethylsilyl)oxy)-1-(4-chloro-3-fluorophenyl)ethyl)-4-(2-(methylsulfonyl)pyrimidin-4-yl)pyridin-2(1*H*)-one (7)

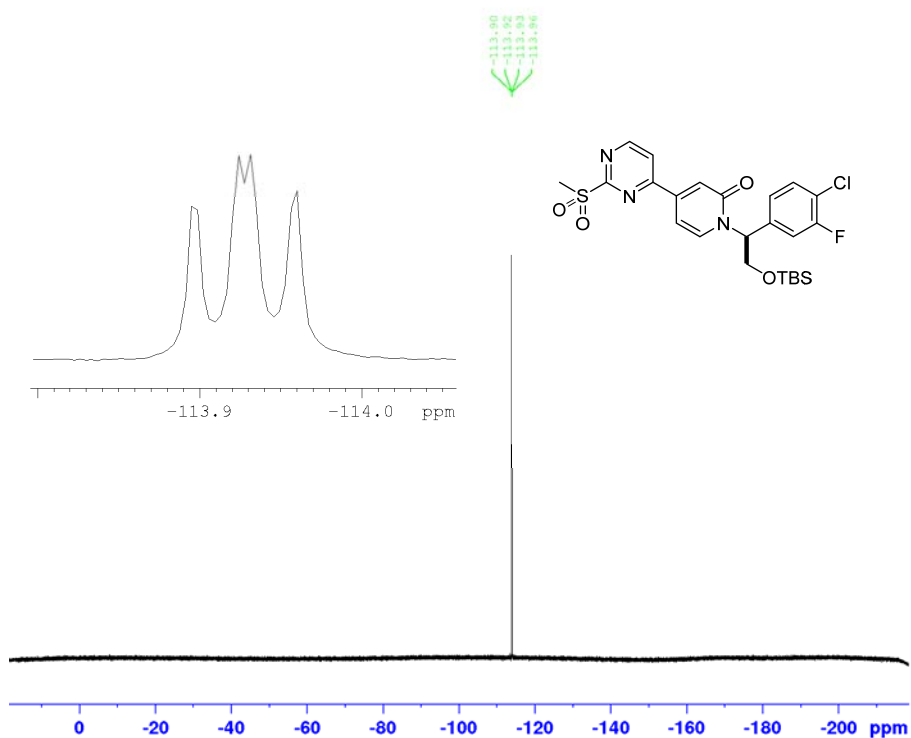
Compound ID: C12041908-J

5 mm PABBO BB/19F-1H/D Z-GRD Z104450/0287



P05621-018-J-STDC CDC13 13C



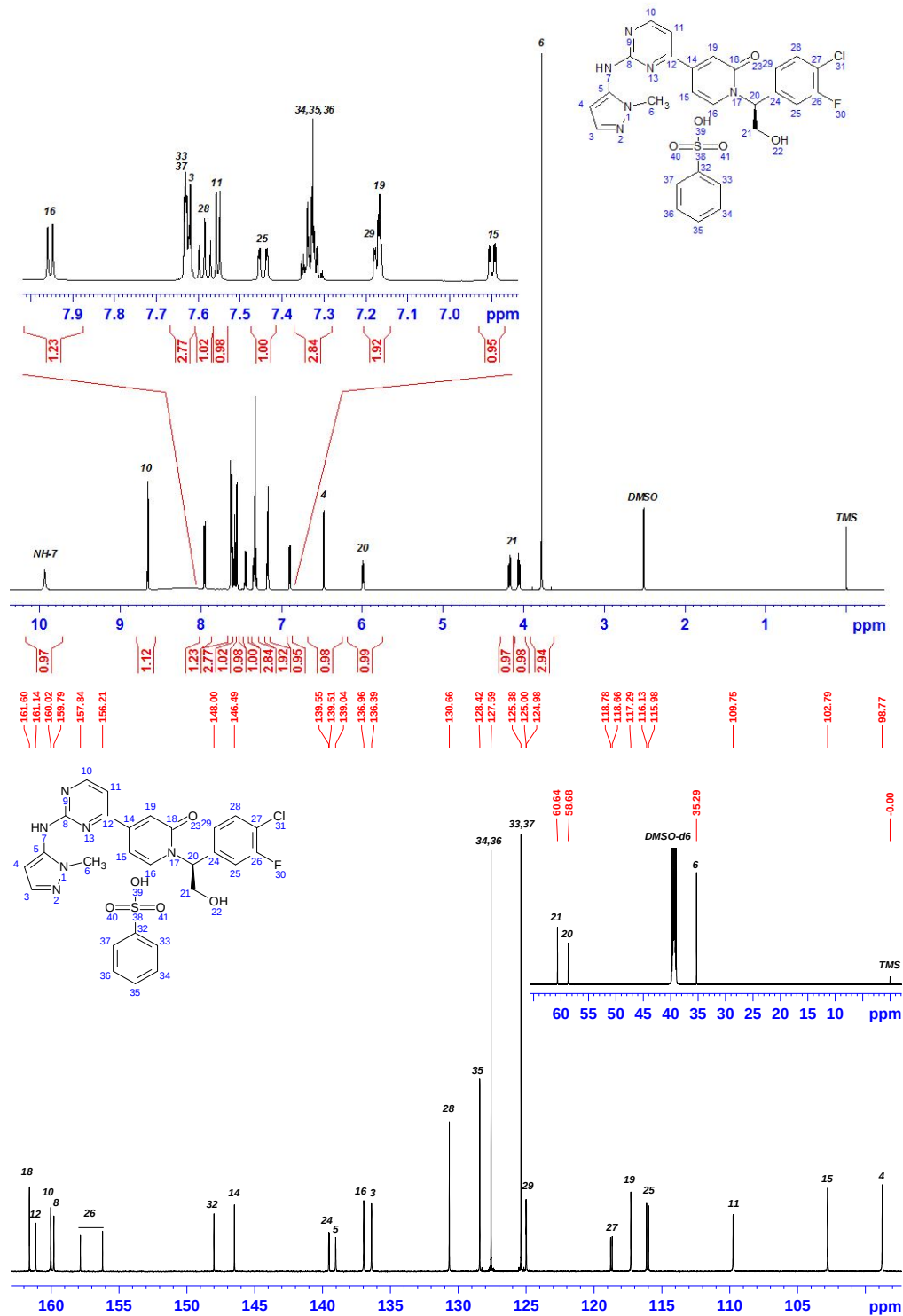


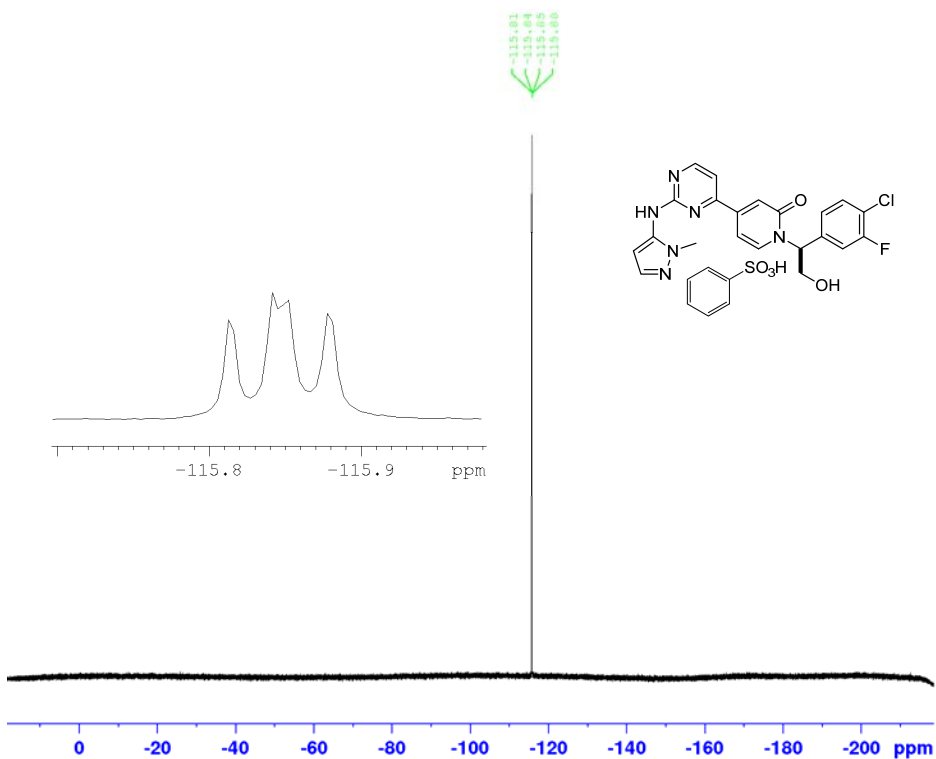
Current Data Parameters
NAME sulfone
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20170202
Time 10:25 h
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PROBHD Z104275_0078 (
PULPROG zgpg30
TD 131072
SOLVENT CDCl3
NS 16
DS 4
SWH 66964.289 Hz
FIDRES 1.021794 Hz
AQ 0.9786710 sec
RG 456
DW 7.467 usec
DE 6.50 usec
TE 294.9 K
D1 1.00000000 sec
TD0 1
SFO1 282.3761148 MHz
NUC1 19F
P1 9.60 usec
PLW1 24.00000000 W

F2 - Processing parameters
SI 65536
SF 282.4043550 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

(S)-1-(1-(4-chloro-3-fluorophenyl)-2-hydroxyethyl)-4-((1-methyl-1H-pyrazol-5-yl)amino)pyrimidin-4-yl)pyridin-2(1H)-one benzenesulfonate (GDC-0994)





Current Data Parameters
NAME GDC-0994
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20170202
Time 10.21 h
INSTRUM spect
PROBHD 2104275_0078 (
PULPROG zgpg30
TD 131072
SOLVENT DMSO
NS 16
DS 4
SWH 66964.289 Hz
FIDRES 1.021794 Hz
AQ 0.9786710 sec
RG 456
DW 7.467 usec
DE 6.50 usec
TE 294.9 K
D1 1.00000000 sec
TD0 1
SFO1 282.3761148 MHz
NUC1 13F
P1 9.60 usec
PLW1 24.00000000 W

F2 - Processing parameters
SI 65536
SF 282.4043550 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00