DESCRIPTION OF MODULATION SYSTEM

SECTION 2.1033(c) (13)

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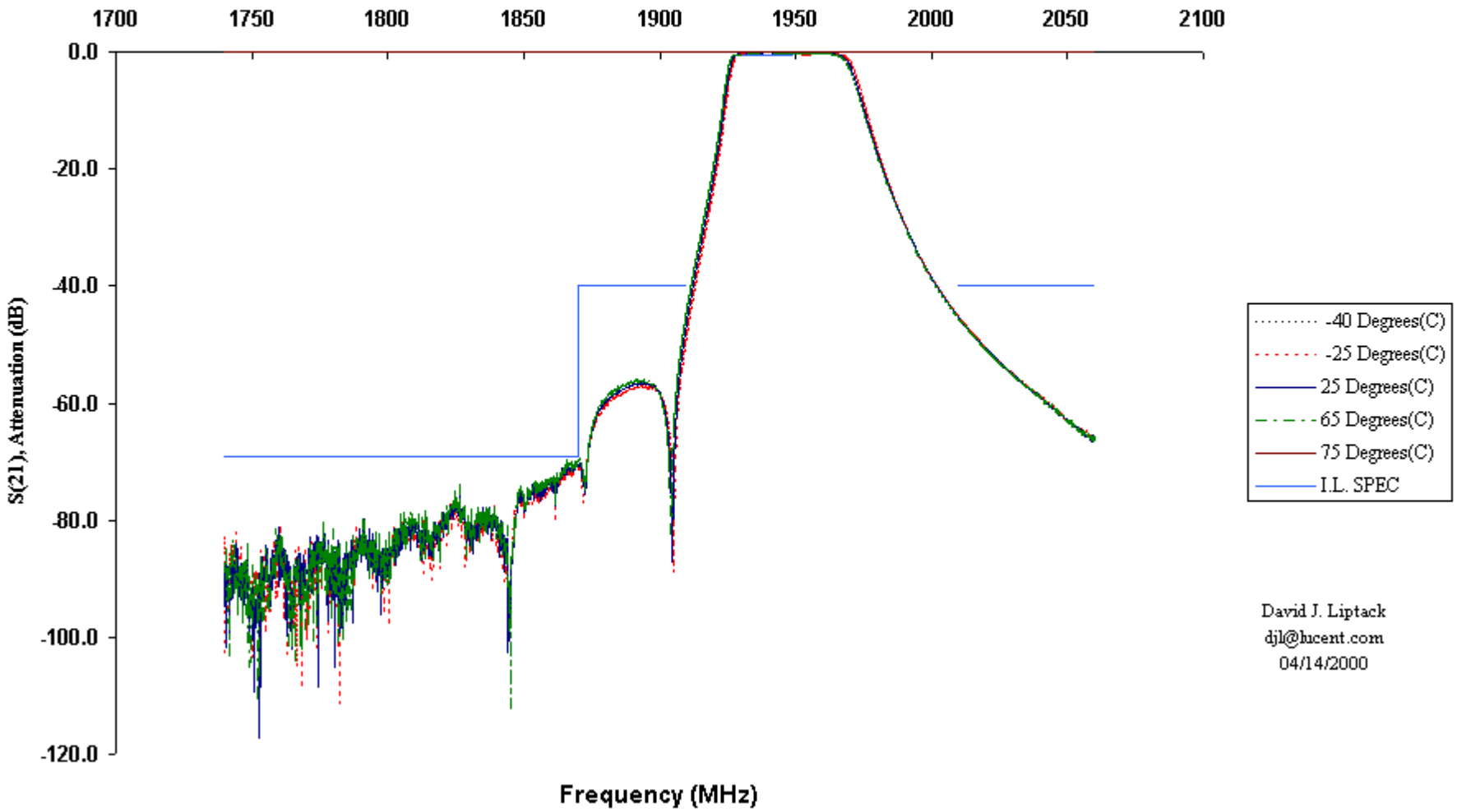
SECTION 2.1033 (c) (13)

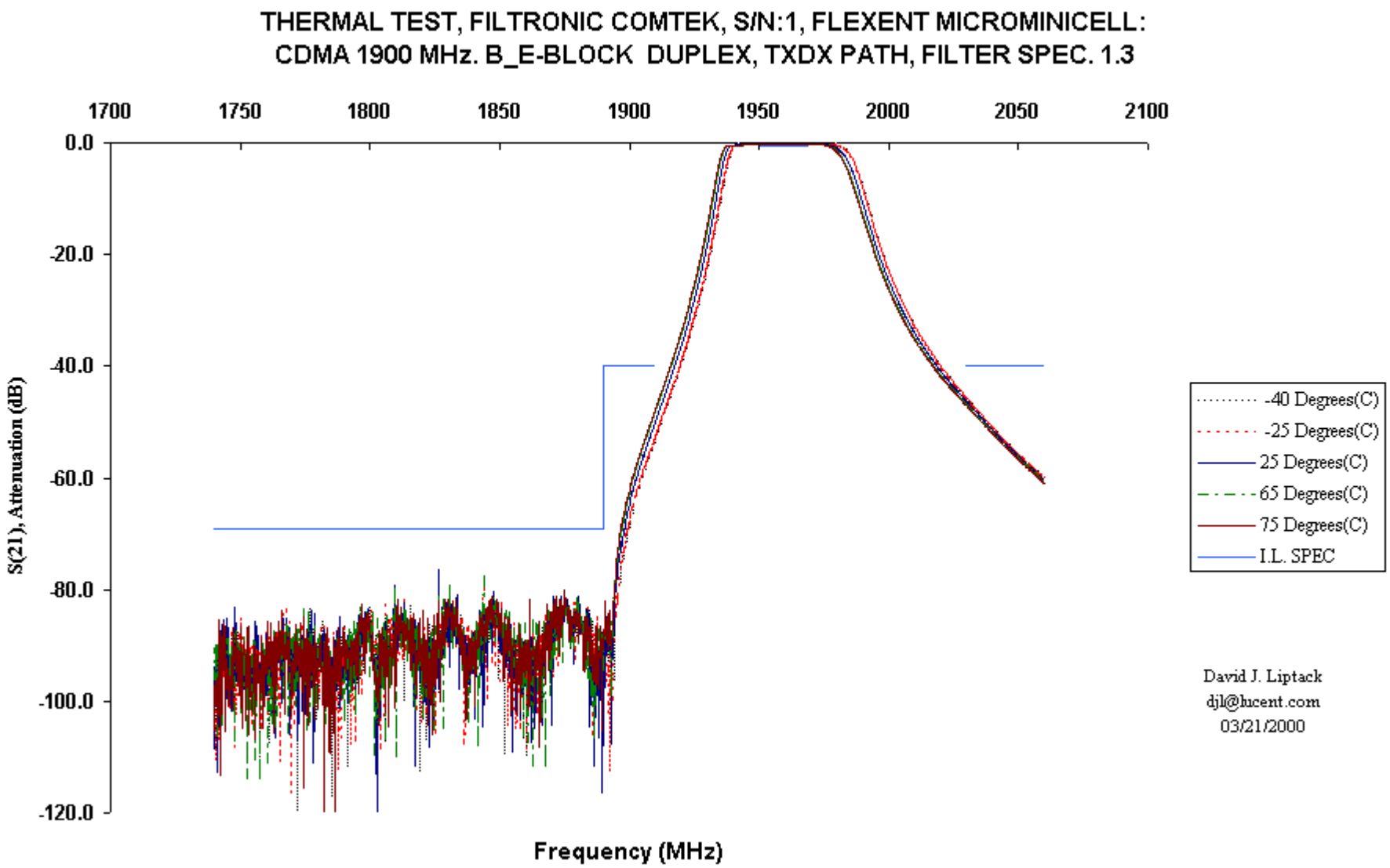
For equipment employing digital modulation techniques, a detailed description of the modulation system to be used, including the response characteristics (frequency, phase and amplitude) of any filters provided, and a description of the modulating wavetrain, shall be submitted for the maximum rated conditions under which the equipment will be operated.

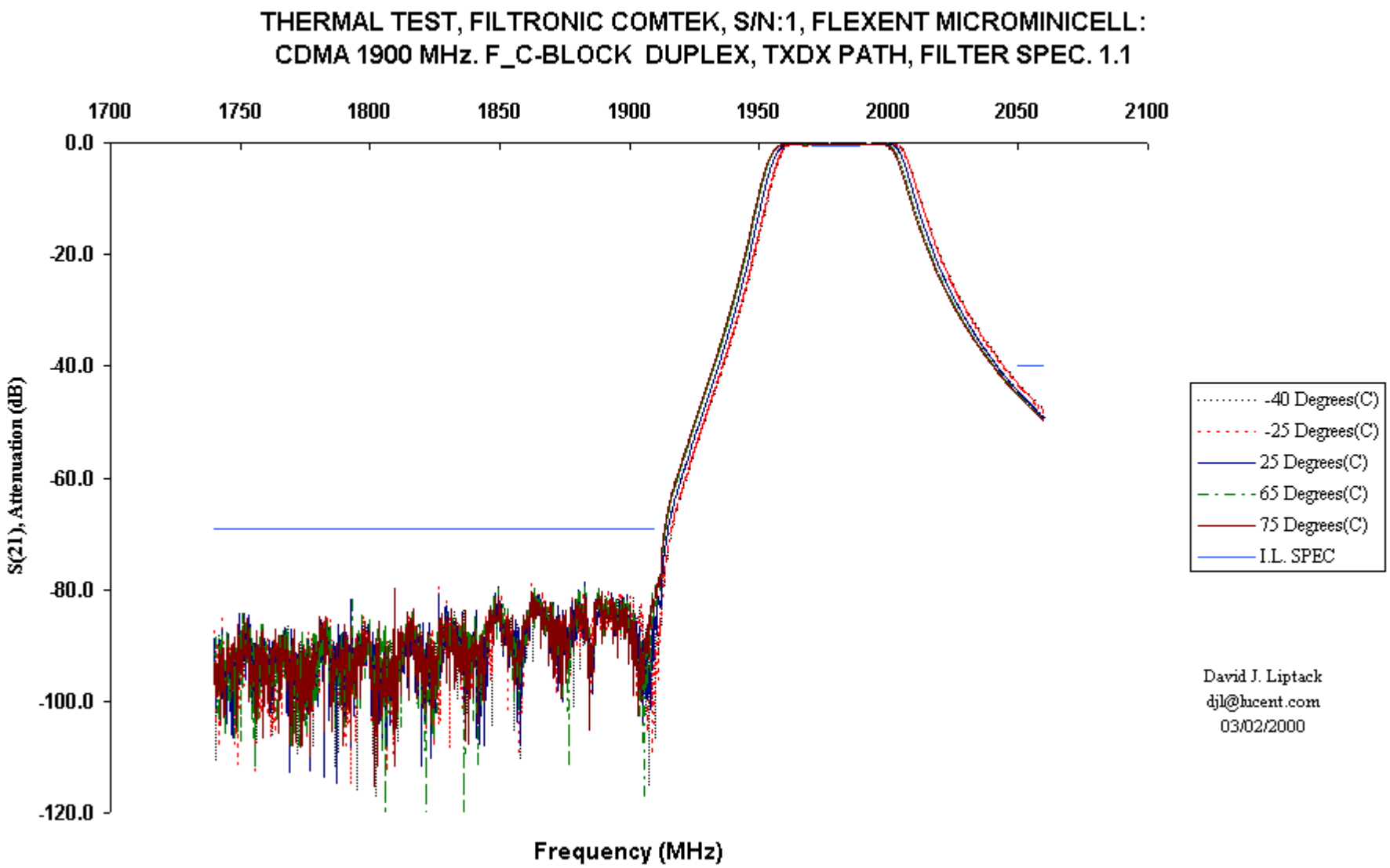
RESPONSE:
These functions are controlled by the PCBR/AS5CMP-41 (co-filed with this equipment) which supplies the signals to be amplified. External to PA (AS5CMP-42), there are cavity type transmit filters which limit spurious and harmonic content. The performance characteristics of these filters are included in this filing. The performance characteristics of RF filter installed between PA RF output terminal and J4 antenna connector is included for Block A, B, C, D, E and F in the following pages. They are paired as AD, BE and FC .

THERMAL TEST, FILTRONIC COMTEK, S/N:1, FLEXENT MICROMINICELL:
CDMA 1900 MHz. A_D-BLOCK DUPLEX, TXDX PATH, FILTER SPEC. 1.3



David J. Liptack
djl@lucent.com
04/14/2000


THERMAL TEST, FILTRONIC COMTEK, S/N:1, FLEXENT MICROMINICELL:
CDMA 1900 MHz. B_E-BLOCK DUPLEX, TXDX PATH, FILTER SPEC. 1.3
1700
1750
1800
1850
1900
1950
2000
2050
2100
0.0
-20.0
-40.0
-60.0
-80.0
-100.0
-120.0
S(21), Attenuation (dB)
Frequency (MHz)
-40 Degrees(C)
-25 Degrees(C)
25 Degrees(C)
65 Degrees(C)
75 Degrees(C)
I.L. SPEC
David J. Liptack
djl@lucent.com
03/21/2000


THERMAL TEST, FILTRONIC COMTEK, S/N:1, FLEXENT MICROMINICELL:
CDMA 1900 MHz. F_C-BLOCK DUPLEX, TXDX PATH, FILTER SPEC. 1.1
1700
1750
1800
1850
1900
1950
2000
2050
2100
0.0
-20.0
-40.0
-60.0
-80.0
-100.0
-120.0
S(21), Attenuation (dB)
Frequency (MHz)
-40 Degrees(C)
-25 Degrees(C)
25 Degrees(C)
65 Degrees(C)
75 Degrees(C)
I.L. SPEC
David J. Liptack
djl@lucent.com
03/02/2000