Re: FCC ID QISC218-800

To: Martin Perrine

Martin.Perrine@fcc.gov

 Applicant: Huawei Technologies Co., Ltd

Correspondence Reference Number: 24865

731 Confirmation Number: TC318026

Date of Original Email: 11/28/2005

 For the first question: *Please explain why power was only tested for 3 service options?   Please justify why power will not vary for the other service options mentioned.*

. For the third question: Please give more details of the intended usage in the "note" column of table 3.   Please include mention if the usage would be for voice/held to ear, body worn or handheld usage.

 The meaning in the "note" column of the table 3 is as followings:
 usage: the Mobile station C218 supports this function;
 operation: the chips designed by Qualcomm supports this function but the Mobile station does not support it now.
 testing: test mode.

Service Options	Comments	Notes	Detail Description
SO02	Mobile Station Loopback	Testing	The output power is set to maximum and emitted continuously so it is good for testing.
SO03	Enhanced Variable Rate Voice Service (8kbps)	Usage	This is a normal usage function but it is not suitable for test because the output power control function works according to the voice input from mike.
SO06	Short Message Services	Usage	The output power is burst not continuous so it is not suitable for testing.
SO09	Mobile Station Loopback	Testing	The output power is set to

			maximum and emitted continuously so it is good for testing.
SO14	Short Message Services	Usage	The output power is burst not continuous so it is not suitable for testing.
SO18	Over-the-Air Service Administration– OTAPA	Usage	The output power is emitted by required not continuous so it is not suitable for testing.
SO19	Over-the-Air Service Administration – OTAPA	Usage	The output power is emitted by required not continuous so it is not suitable for testing.
SO55	Loopback Service Option (LSO)	Testing	The output power is set to maximum and emitted continuously so it is good for testing.
SO32798	Markov Calls (Rate Set1)	Testing	It is assistant function accompanied to SO55.
SO32799	Markov Calls (Rate Set2)	Testing	It is assistant function accompanied to SO55.

So output power test, we only test for 3 Service options. Those data could represent all normal working modes. And for normal working conditions, the maximum output power rarely happens because of the good network signal overlay.

For the forth question: *I noticed that the frequency change for worst case power varies considerable with the different RCs. Since only RC3 was SAR tested some additional SAR testing may be necessary to fully justify compliance. Please see Supplement C and related Public Notices on handling different modes of operation.*

According to the test data we provided last time, the power level has little difference with the different RCs configuration in the same frequency. Although a little different with frequency, we do all tests from high, middle, low frequency in the work band. Different RCs have the different modulations for the base band referred to the document provided last time. But for RF band, the gain of the amplifier is the same in the same frequency. During the SAR test, we did pre-scan test firstly, we found little influence between different RCs. For RC3 is the most typical configuration in the CDMA2000 network condition now for C218, we used the RC3 as the worst case configuration in the test report.

Another attestation is according to 3GGP2 C S0011-B, the chapter 4.4.5.2 about test method told us:

3GPP2 C.S0011-B

4.4.5.2 Method of Measurement

1. Connect the base station to the mobile station antenna connector as shown in Figure 6.5.1-4. The AWGN generator and the interference generator are not applicable in this test.

2. For each band class that the mobile station supports, configure the mobile station to operate in that band class and perform steps 3 through 35.

3. If the mobile station supports Reverse Traffic Channel Radio Configuration 1 and Forward Traffic Channel Radio Configuration 1, set up a call using Fundamental Channel Test Mode 1 (see 1.3) with 9600 bps data rate only and perform steps 6 through 8.

4. If the mobile station supports the Radio Configuration 3 Reverse Fundamental Channel and demodulation of Radio Configuration 3, 4, or 5, set up a call using Fundamental Channel Test Mode 3 (see 1.3) with 9600 bps data rate only and perform steps 6 through 8.

Table 1.3-1. Test Configuration Combinations

Test Mode	Forward Traffic Channel Radio Configuration	Reverse Traffic Channel Radio Configuration
1	1	1
2	2	2
3	3	3
4	4	3
5	5	4

For the forth question: *In the answer appendix please title each graphic with what it represents.*
The titles of each graphic have been added.

For the fifth question: *Please also provide text description of "HPSK" modulation.*
HPSK means Hybrid Phase Shift Keying, it is used in Reverse channel in cdma2000 systems and it includes QPSK and OQPSK modulations, a block diagram showing the I and Q mapping for the reverse code channels is shown below:
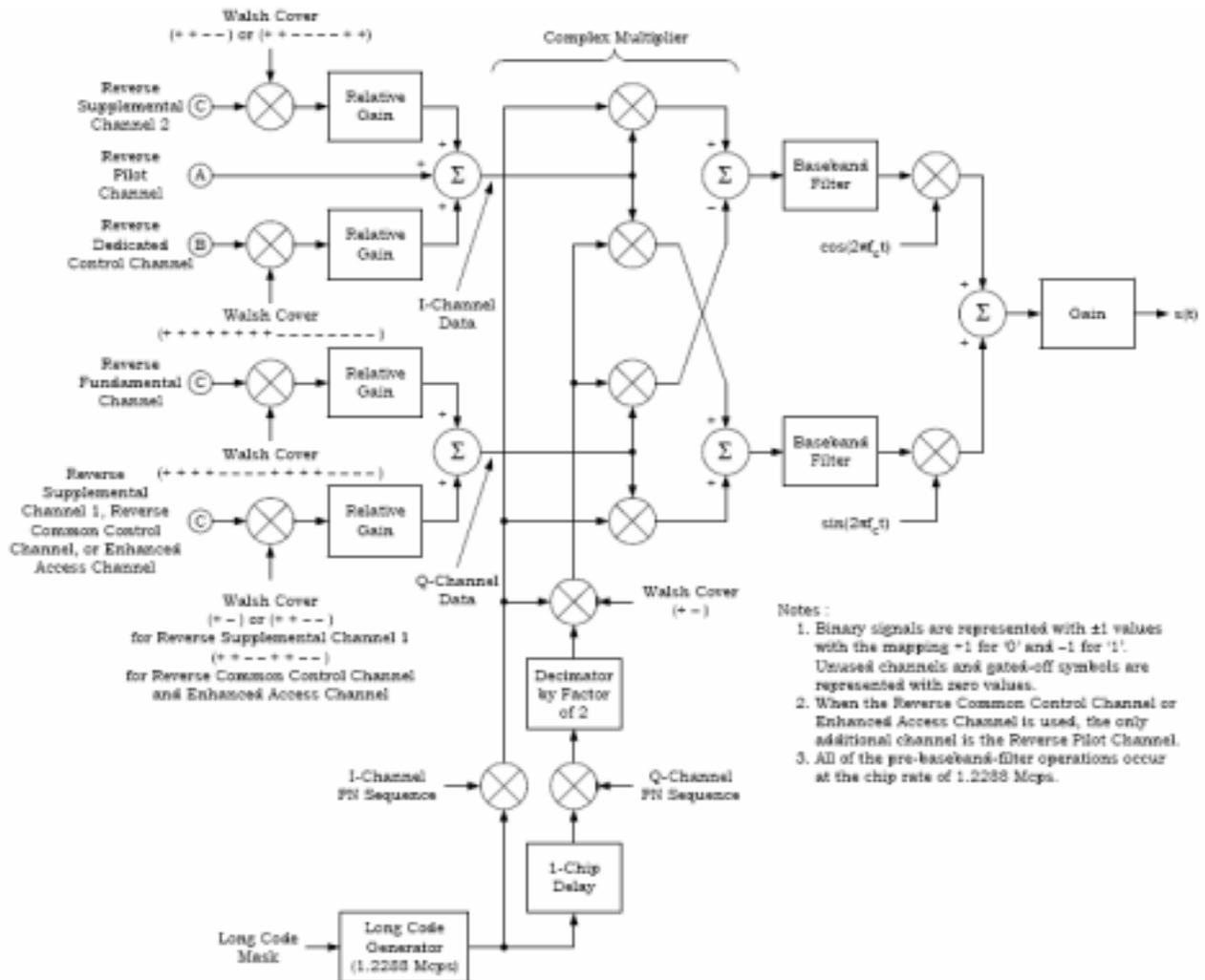
For the sixth question: *Does this device contain 1X-EVDO or 1X-EVDV?   If so please handle similar to above.*

The Mobile station C218 does not support 1X-EVDO or 1X-EVDV function.