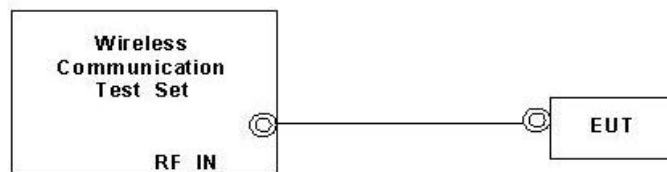


## Appendix F. FCC 3G SAR Measurement Procedures

### HSPA+ 3GPP release 7 (uplink category 7) 16QAM, Setup Configuration:

- a. The EUT was connected to Base Station referred to the drawing of Setup Configuration.
- b. The RF path losses were compensated into the measurements.
- c. A call was established between EUT and Base Station with following setting
  - i. Data rates: Varied from HSPA
  - ii. RMC Test Loop = Loop Mode 1
  - iii. Power Ctrl Mode = All Up bits
- d. The transmitted maximum output power was recorded.



**Setup Configuration**

**HSPA+ 3GPP release 7 (uplink category 7) 16QAM, Setup Configuration:**

- a. The EUT was connected to Base Station referred to the drawing of Setup Configuration.
- b. The RF path losses were compensated into the measurements.
- c. A call was established between EUT and Base Station with following setting \* :
  - i. Call Configs = 5.2E:HSPA+:UL with 16QAM
  - ii. Set the Gain Factors ( $\beta_c$  and  $\beta_d$ ) and parameters (AG Index) were set according to each specific sub-test in the following table, C11.1.4, quoted from the TS 34.121-1 s5.2E
  - iii. Set Channel Parmns
  - iv. Set Cell Power = -86 dBm
  - v. Set Channel Type = HSPA
  - vi. Set UE Target Power =21 dBm
  - vii. Power Ctrl Mode= All Up Bits
  - viii. Set Manual Uplink DPCH Bc/Bd = Manual
  - ix. Set Manual Uplink DPCH Bc and Bd=15,15(for 34.121-1 v8.10.0 tableC11.1.4 sub-test 1)
  - x. Set HSPA Conn DL Channel Levels
  - xi. Set HS-SCCH Configs
  - xii. Set RB Test Mode Setup
  - xiii. Set Common HSUPA Parameters
  - xiv. Set Serving Grant
  - xv. Confirm that E-TFCI is equal to the target E-TFCI of 105 for sub-test 1, and other subtest's E-TFCI
- d. The transmitted maximum output power was recorded.

**Table C.11.1.4:  $\beta$  values for transmitter characteristics tests with HS-DPCCH and E-DCH with 16QAM**

Sub-test	$\beta_c$ (Note3)	$\beta_d$	$\beta_{HS}$ (Note1)	$\beta_{ec}$	$\beta_{ed}$ (2xSF2) (Note 4)	$\beta_{ed}$ (2xSF4) (Note 4)	CM (dB) (Note 2)	MPR (dB) (Note 2)	AG Index (Note 4)	E-TFCI (Note 5)	E-TFCI (boost)
1	1	0	30/15	30/15	$\beta_{ed1}$ : 30/15 $\beta_{ed2}$ : 30/15	$\beta_{ed3}$ : 24/15 $\beta_{ed4}$ : 24/15	3.5	2.5	14	105	105

Note 1:  $\Delta_{ACK}$ ,  $\Delta_{NACK}$  and  $\Delta_{CQI} = 30/15$  with  $\beta_{HS} = 30/15 * \beta_c$ .

Note 2: CM = 3.5 and the MPR is based on the relative CM difference, MPR = MAX(CM-1,0).

Note 3: DPDCH is not configured, therefore the  $\beta_c$  is set to 1 and  $\beta_d = 0$  by default.

Note 4:  $\beta_{ed}$  can not be set directly; it is set by Absolute Grant Value.

Note 5: All the sub-tests require the UE to transmit 2SF2+2SF4 16QAM EDCH and they apply for UE using E-DPDCH category 7. E-DCH TTI is set to 2ms TTI and E-DCH table index = 2. To support these E-DCH configurations DPDCH is not allocated. The UE is signaled to use the extrapolation algorithm.

**Setup Configuration**

**Note:**

For details settings in the Agilent 8960 test equipment, please refer to the user guide “16QAM Measurement User Guide rev2”



Call Setup Screen						
Call Control	Active Cell Operating Mode				Call Parm	
Channel (UARFCN) Info	UE Information				Cell Power	
	INSI: 001010123456789	Power Class: 3	Detected PRACH Sig: 0		-75.00 dBm/3.84 MHz	
Cell Info	Called Party Number:				Channel Type	
	UE Expected Open Loop Transmit Power				HSPA	
Generator Info	Init PRACH TX Pou: -22.70 dBm	Init DPCH TX Pou: 17.99 dBm		Paging Service		
	Current Service Type				RB Test Mode	
Uplink Parameters	None			Value		
	PRACH Ramping Cycles(MMAX)			2		
	Available Subchannels (Bit Mask)			000000000001		
	Uplink DPCH Scrambling Code			0		
	Uplink DPCH Bc/Bd Control			Manual		
	Manual Uplink DPCH Bc			15		
	Manual Uplink DPCH Bd			15		
Close Menu	Maximum Uplink Transmit Power Level			21 dBm		
	Uplink DPCH Slot Format			1		
2 of 6	Background		Active Cell Idle		Sys Type: UTRA FDD	
			IntRef		Offset	
						Logging: No Conn
						1 of 3

Example for HSPA+ Subtest 1, and other subtests following table, C11.1.4 (Gain Factors ( $\beta_c = 15$  and  $\beta_d = 15$ ))

Call Setup Screen										
Conn DL Lvl	Generator Information				Call Parm					
Additional Gen Info Screens	Primary Scrambling Code: 0				Cell Power					
	Channel		Cell 1 DL Code Chan Info		Cell 2 DL Code Chan Info					
HSDPA Conn DL Channel Levels	Level (dB)		Level (dB)		-75.00 dBm/3.84 MHz					
	Channel	Current	Desired	QVSF	Chan Code	Chan Code				
	CPICH:	-3.30	-3.30	256	0	Off	-3.30	256	0	Channel Type
P-CCPCH/SCH:	-5.30	-5.30	256	1	Off	-5.35	256	1		
S-CCPCH:	-10.30	-10.30	64	7						
HSDPA Conn DL Channel Levels	PICH:	-8.30	-8.30	256	16			Paging Service	RB Test Mode	
	AGCH:	-9.90	-9.90	256	10					
HSPA Conn DL Channel Levels	HSPA Connected DL Channel Levels			Value						
	HSPA Cell 1 Connected CPICH Level			-10.00 dB						
	HSPA Cell 1 Connected P-CCPCH/SCH Level			-12.00 dB						
	HSPA Cell 1 Connected S-CCPCH Level			Off						
	HSPA Cell 1 Connected PICH Level			-15.00 dB						
	HSPA Cell 1 Connected (F-)DPCH Level			-10.00 dB						
	HSPA Cell 1 Connected E-AGCH Level			-20.00 dB						
AUGN Power Off	HSPA Cell 1 Connected E-HICH Level			-20.00 dB						
	HSPA Cell 1 Connected E-RGCH Level			Off						
Close Menu	HSPA Cell 1 Connected E-HICH Level			-20.00 dB						
	HSPA Cell 1 Connected E-RGCH Level			Off						
2 of 6	Background		Active Cell Idle		Sys Type: UTRA FDD					
			IntRef		Offset					
						Logging: No Conn				
						1 of 3				

Set HSPA Conn DL Channel Levels : CPICH =10dBm , P-CCPCH/SCH=-12dBm , PICH=15 , (F-)DPCH=-10 , E-AGCH=-20 , E-HICH=-20 , E-RGCH=off , HS-PDSCHs=-3dBm , HS-SCCH 1=-8dBm



Call Setup Screen						
DL Config	Generator Information					Call Parm
Additional Gen Info Screens	Primary Scrambling Code: 0					Cell Power
						-75.00
Conn S-CCPCH Cfg	Cell 1 DL Code Chan Info		Cell 2 DL Code Chan Info			dBm/3.84 MHz
	Channel	Level (dB)	Chan Code	Current	Desired	OVSF
On	CPICH:	-3.30	-3.30	256	0	Off
	P-CCPCH/SCH:	-5.30	-5.30	256	1	Off
	S-CCPCH:	-10.30	-10.30	64	7	
HS-SCCH Configs	PICH:	-8.30	-8.30	256	16	
	AICH:	-9.30	-9.30	256	10	
HS-SCCH Conf States						
	HS-SCCH 1 Channel Config State					On
HSDPA/HSPA OCHS Configs	HS-SCCH 2 Channel Config State					Off
	HS-SCCH 3 Channel Config State					Off
DL Chan Code Preset Configs	HS-SCCH 4 Channel Config State					Off
Close Menu						
Background		Active Cell Idle		Sys Type: UTRA FDD		
				Logging: No Conn		
		IntRef Offset				
				1 of 3		

Set HS-SCCH Configs : HS-SCCH 2=off , HS-SCCH 3=off , HS-SCCH 4=off

Call Setup Screen						
Call Control	Active Cell Operating Mode					HSUPA Parm
Close Menu	UE Information					HSUPA PS Data Setup
	IMSI: 001010123456789		Power Class: 3			
	IMEI(SU):355791040039823(--)		Detected PRACH Sig: 0			
	Called Party Number:					HSUPA RB Test Mode Setup
	UE Expected Open Loop Transmit Power					
	Init PRACH TX Pou: -22.70 dBm		Init DPCH TX Pou: 17.99 dBm			
	Current Service Type					Common HSUPA Parameters
	None					
	HSUPA RB Test Mode Settings					Value
	RB Test Mode E-RGCH Information State					Off
RB E-DPDCH Max Channel Codes (12.2k + HSPA)					2SF4	
RB E-DPDCH Max Channel Codes (HSPA)					2SF2 + 2SF4	
E-DCH RLC SDU Size					8808	
RB Max Number of HARQ Retransmissions					7	
Background		Active Cell Idle		Sys Type: UTRA FDD		
				Logging: No Conn		
		IntRef Offset				
				1 of 2		

Set RB Test Mode Setup : E-RGCH Information State to Off , Set RB E-DPDCH Max Channel Codes (HSPA) to 2SF2 + 2SF4 , Set E-DCH RLC SDU Size to 8808



Call Setup Screen			
Call Control	Active Cell Operating Mode	HSUPA Parm	
Close Menu	<b>UE Information</b> INSI: 001010123456789 Power Class: 3 INEI(SU):355791040039823 (--) Detected PRACH Sig: 0 Called Party Number:		HSUPA PS Data Setup ▾
	<b>UE Expected Open Loop Transmit Power</b> Init PRACH TX Pou: -22.70 dBm Init DPCCH TX Pou: 17.99 dBm		HSUPA RB Test Node Setup ▾
	<b>Current Service Type</b> None		Common HSUPA Parameters ▾
	<b>HSUPA Common Service Parameters</b>		Serving Grant
	E-DCH TTI	2 ms	
	E-DCH 16QAM State	On	
	E-DPCCH/DPCCH Power Offset (DeltaE-DPCCH)	8	
	Happy Bit Delay Condition	100 ms	
	<b>HSUPA Common Service Parameters</b>		E-TFCI Recording
	Happy Bit Averaging Period	1.000 s	
	E-TFCI Table Index (10 ms TTI)	0	Return
	E-TFCI Table Index (2 ms TTI)	0	
	E-TFCI Table Index (2 ms TTI with 16QAM)	2	
	Background Active Cell Idle Sys Type: UTRA FDD IntRef Offset Logging: No Conn		1 of 2

Set Common HSUPA Parameters : E-DCH TTI to 2 ms , E-DCH 16QAM State to On , E-DPCCH/DPCCH Power Offset (DeltaE-DPCCH)=8 , E-TFCI Table Index=2ms

Call Setup Screen			
Call Control	Active Cell Operating Mode	HSUPA Parm	
Close Menu	<b>UE Information</b> INSI: 001010123456789 Power Class: 3 INEI(SU):355791040039823 (--) Detected PRACH Sig: 0 Called Party Number:		HSUPA PS Data Setup ▾
	<b>UE Expected Open Loop Transmit Power</b> Init PRACH TX Pou: -22.70 dBm Init DPCCH TX Pou: 17.99 dBm		HSUPA RB Test Node Setup ▾
	<b>Current Service Type</b> None		Common HSUPA Parameters ▾
	<b>HSUPA Common Service Parameters</b>		Serving Grant
	E-DCH Minimum Set E-TFCI Information State	On	
	E-DCH Minimum Set E-TFCI (10ms TTI)	9	
	E-DCH Minimum Set E-TFCI (2ms TTI)	10	
	Reference E-TFCI Power Offset Control	Predefined	
	<b>HSUPA Common Service Parameters</b>		E-TFCI Recording
	Reference E-TFCI Power Offsets	Def 34.121-04	
	Scheduling Information Periodicity (No Grant)	No Report	Return
	Scheduling Information Periodicity (Grant)	No Report	
	E-HICH Behavior	Active	
	Background Active Cell Idle Sys Type: UTRA FDD IntRef Offset Logging: No Conn		1 of 2

Set Common HSUPA Parameters : Reference E-TFCI Power Offset Control to Predefined Reference E-TFCI Power Offsets to Definition 34.121-04



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Set Common HSUPA Parameters : E-TFCI Boost Information State to On ,  
 E-TFCI Boost Value to 105 , DeltaT2TP to 2 ,  
 BetaEd Gain E-AGCH Table Selection to 1  
 E-DPDCH Power Calculation Formula to Extrapolation

Call Setup Screen																																																			
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Set Serving Grant : AG Mode= Single Shot , Set RB Setup AG=74(75/15)



Call Setup Screen						
Screen Ctrl	Recorded E-TFCI Information					E-TFCI Record
Channel (UARFCN) Info	E-TFCI Recording State Idle					E-TFCI Recording Parameters ▾
HSPA Information	Current E-TFCI Boost 105					Start Recording E-TFCI Values
E-TFCI Recording Information	Recorded E-TFCI Values					
	1:----	11:----	21:----	31:----	41:----	
	2:----	12:----	22:----	32:----	42:----	
	3:----	13:----	23:----	33:----	43:----	
	4:----	14:----	24:----	34:----	44:----	
	5:----	15:----	25:----	35:----	45:----	Send Step Up TPC Bit Pattern
	6:----	16:----	26:----	36:----	46:----	
	7:----	17:----	27:----	37:----	47:----	
Clear UE Info	8:----	18:----	28:----	38:----	48:----	Send Step Down TPC Bit Pattern
	9:----	19:----	29:----	39:----	49:----	
	10:----	20:----	30:----	40:----	50:----	
Return	0/15					Return
	Background	Active Cell		Sys Type: UTRA FDD		
		Idle		Logging: No Conn		
		IntRef	Offset			

Example: Confirm that E-TFCI is equal to the target E-TFCI of 105 for sub-test 1



**Reference:**

- [1] 941225 D01 SAR test for 3G devices v02, SAR Measurement Procedures for 3G Devices CDMA 2000/Ev-Do/WCDMA/HSDPA/HSPA Oct. 2007 Laboratory Division Office of Engineering and Technology Federal Communications Commission
- [2.] TS 34.121 Universal Mobile Telecommunications System (UMTS); Terminal Conformance Specification, Radio Transmission and Reception (FDD)
- [3.] HSUPA Measurement Guide with 8960 V7.5.0 Release 7 (2007-06) Ver.: v.02.18