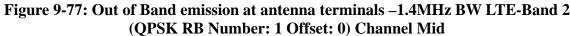
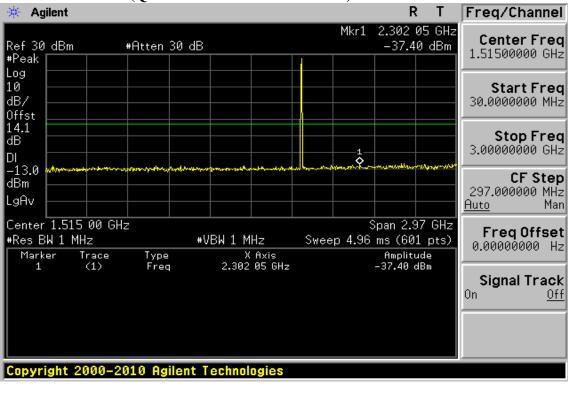


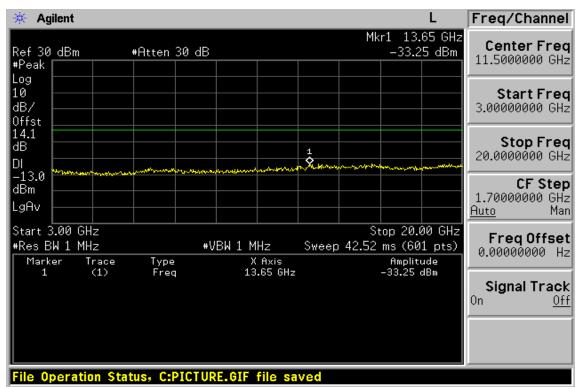
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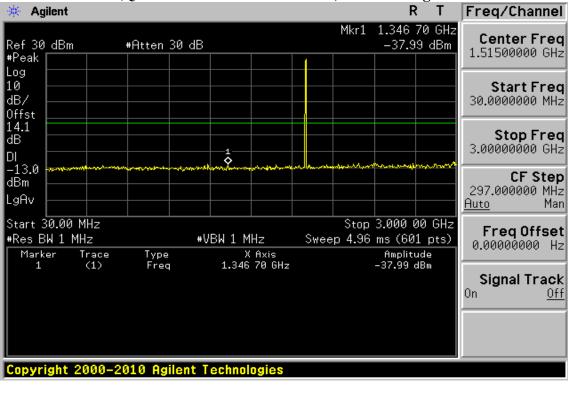


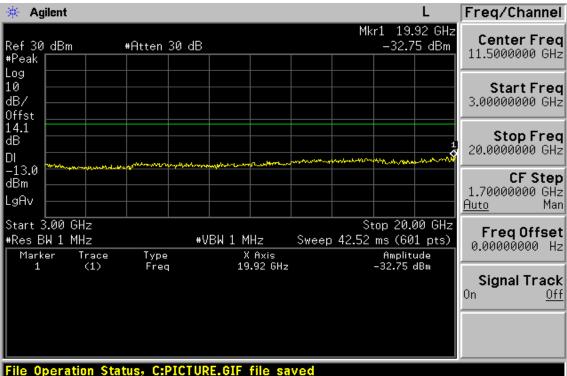


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Out of Band emission at antenna terminals -1.4MHz BW LTE-Band 2

(OPSK RB Number: 1 Offset: 0)

	/		
Fundamental Frequency	:1850.7 MHz	Engineer	:Nick
Operation Mode	:TX Low		

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S		-13.00	
30-1000	S		-13.00	
3701.40	Н		-13.00	
5552.10	Н		-13.00	
7402.80	Н		-13.00	
9253.50	Н		-13.00	
11104.20	Н		-13.00	
12954.90	Н		-13.00	
14805.60	Н		-13.00	
16656.30	Н		-13.00	
18507.00	Н		-13.00	
19630.00	S	-32.51	-13.00	19.51

"H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency. Note : "---": denotes Noise Floor.

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Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 338 of 774

Fundamental Frequency Operation Mode		:1880.0 MHz Engineer :TX Mid		eer	:Nick	
	Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB	
	<30	S		-13.00		
	30-1000	S		-13.00		
	3760.00	Н		-13.00		
	5640.00	Н		-13.00		
	7520.00	Н		-13.00		
	9400.00	Н		-13.00		
	11280.00	Н		-13.00		
	13160.00	Н		-13.00		
	13650.00	S	-33.25	-13.00	20.25	
	15040.00	Н		-13.00		
	16920.00	Н		-13.00		
	18800.00	Н		-13.00		

"H": denotes Harmonic Frequency. "S": denotes Spurious Frequency. Note : "---": denotes Noise Floor.

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Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 339 of 774

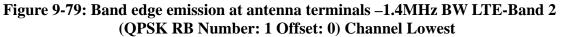
Fundamental Frequency Operation Mode		:1909.3 MHz Engineer :TX High		eer	:Nick
	Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
	<30	S		-13.00	
	<30 30-1000	S		-13.00	
	3818.60	Н		-13.00	
	5727.90	Н		-13.00	
	7637.20	Н		-13.00	
	9546.50	Н		-13.00	
	11455.80	Н		-13.00	
	13365.10	Н		-13.00	
	15274.40	Н		-13.00	
	17183.70	Н		-13.00	
	19093.00	Н		-13.00	
	19920.00	S	-32.75	-13.00	19.75

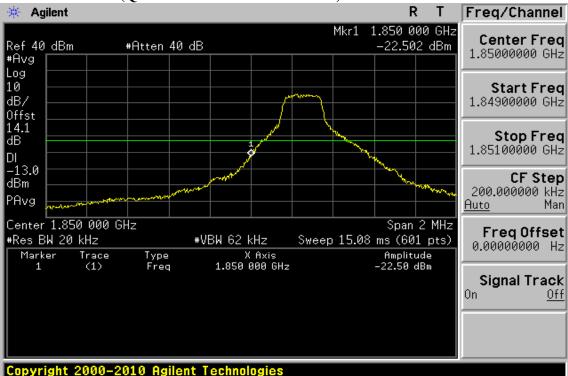
"H": denotes Harmonic Frequency. "S": denotes Spurious Frequency. Note : "": denotes Spurious Freque

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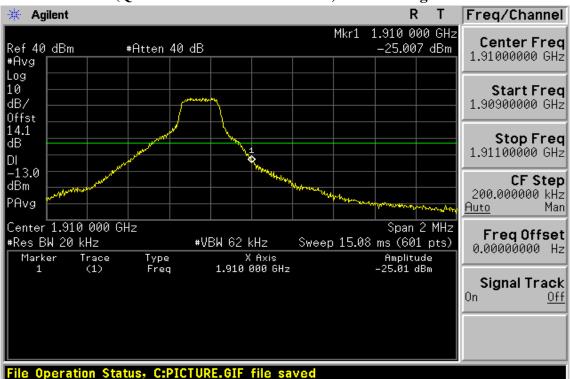
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Band edge emission at antenna terminals -1.4MHz BW LTE-Band 2

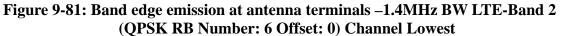
(QPSK RB Number: 1 Offset: 0) (QPSK RB Number: 1 Offset: 5) 1 4MHz BW I TE-Band 2 Engineer Test Mode

1.4MHz B	W LTE-Band 2	Engineer		:Nic
Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB	
1850.000	-22.50	-13.00	9.50	
1910.000	-25.01	-13.00	12.01	

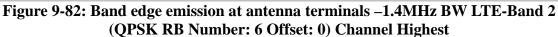
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Band edge emission at antenna terminals -1.4MHz BW LTE-Band 2

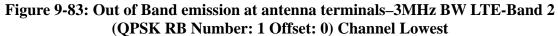
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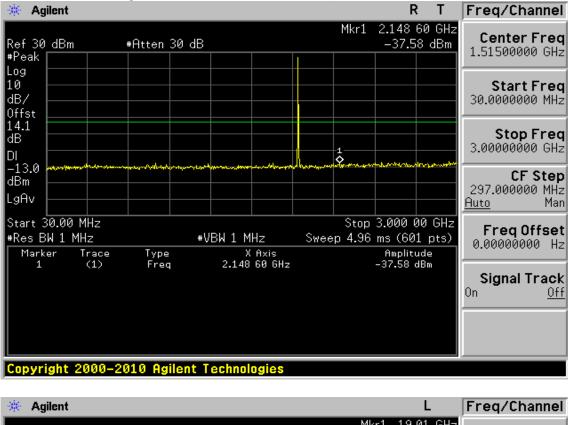
Test Mode	1.4MHz B	1.4MHz BW LTE-Band 2			:Nick
	Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB	_
	1850.000 1910.000	-24.65 -21.23	-13.00 -13.00	11.65 8.23	

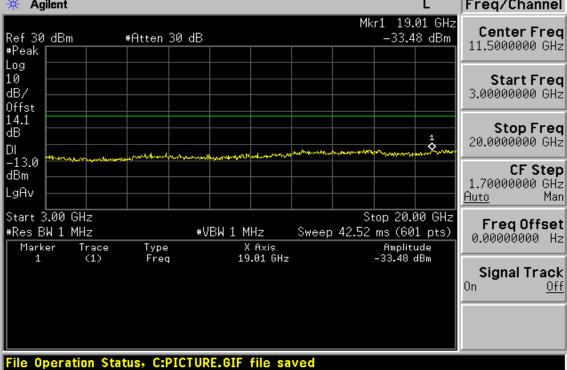
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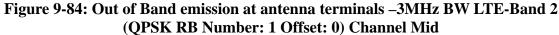


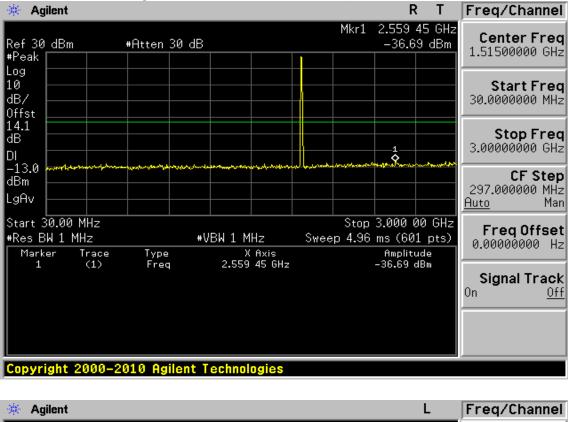


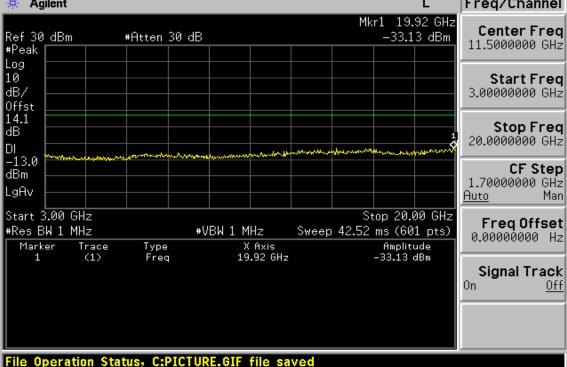
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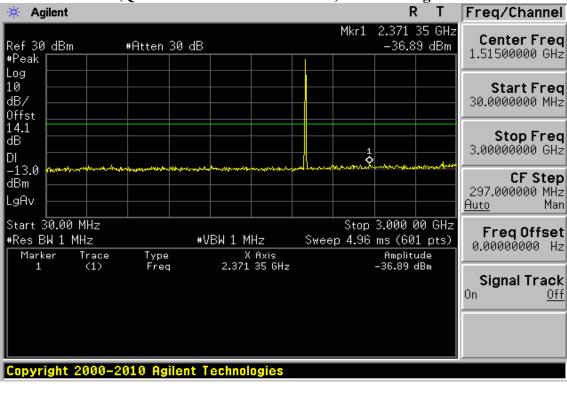


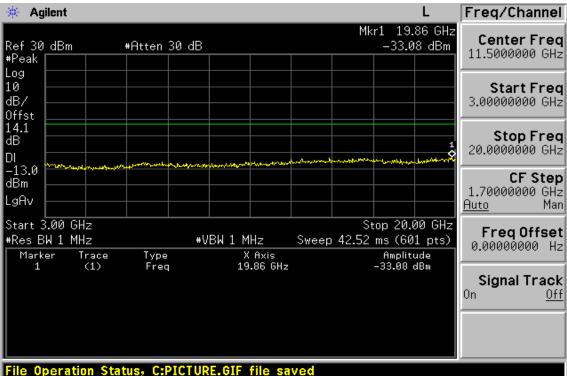


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Out of Band emission at antenna terminals -3MHz BW LTE-Band 2

(OPSK RB Number: 1 Offset: 0)

Fundamental Frequency	:1851.5 MHz	Engineer	:Nick
Operation Mode	:TX Low		

_	Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
	<30	S		-13.00	
	30-1000	S		-13.00	
	3703.00	Н		-13.00	
	5554.50	Н		-13.00	
	7406.00	Н		-13.00	
	9257.50	Н		-13.00	
	11109.00	Н		-13.00	
	12960.50	Н		-13.00	
	14812.00	Н		-13.00	
	16663.50	Н		-13.00	
	18515.00	Н		-13.00	
	19010.00	S	-33.48	-13.00	20.48

"H": denotes Harmonic Frequency. "S": denotes Spurious Frequency. Note : "---": denotes Noise Floor.

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Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 348 of 774

Fundamental Frequency Operation Mode		:1880.0 MHz :TX Mid	Engineer		:Nick	
	Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB	
	<30	S		-13.00		
	30-1000	S		-13.00		
	3760.00	Н		-13.00		
	5640.00	Н		-13.00		
	7520.00	Н		-13.00		
	9400.00	Н		-13.00		
	11280.00	Н		-13.00		
	13160.00	Н		-13.00		
	15040.00	Н		-13.00		
	16920.00	Н		-13.00		
	18800.00	Н		-13.00		
	19920.00	S	-33.13	-13.00	20.13	

"H": denotes Harmonic Frequency. "S": denotes Spurious Frequency. Note : "---": denotes Noise Floor.

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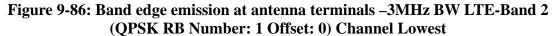
Fundamental Frequency Operation Mode		:1908.5 MHz Engineer :TX High		eer	:Nick	
	Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB	
	<30	S		-13.00		
	<50 30-1000	S		-13.00		
	3817.00	Н		-13.00		
	5725.50	Н		-13.00		
	7634.00	Н		-13.00		
	9542.50	Н		-13.00		
	11451.00	Н		-13.00		
	13359.50	Н		-13.00		
	15268.00	Н		-13.00		
	17176.50	Н		-13.00		
	19085.00	Н		-13.00		
	19860.00	S	-33.08	-13.00	20.08	

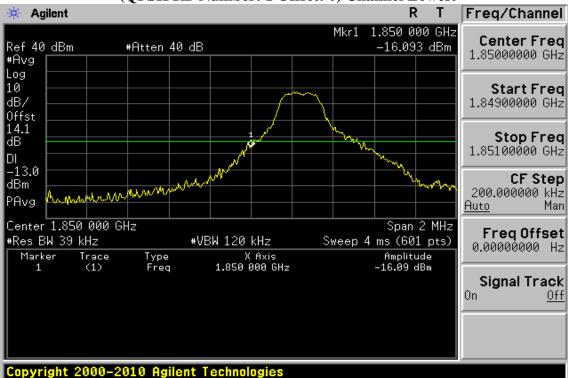
"H": denotes Harmonic Frequency. "S": denotes Spurious Frequency. Note : "": denotes Spurious Freque

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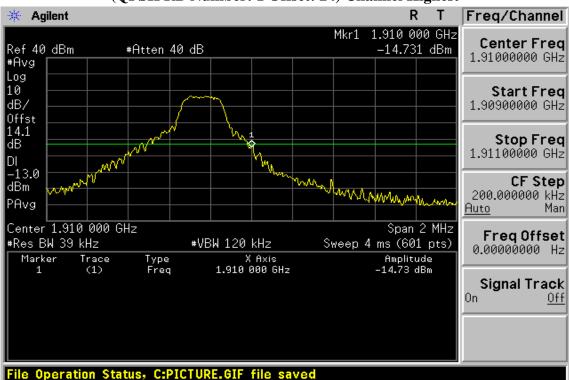
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1.73

-13.00

Band edge emission at antenna terminals –3MHz BW LTE-Band 2

1910.000

(QPSK RB Number: 1 Offset: 0) (QPSK RB Number: 1 Offset: 24)

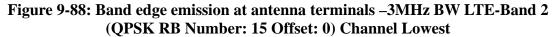
Test Mode	3MHz BW	3MHz BW LTE-Band 2		Engineer	
	Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB	_
	1850.000	-16.09	-13.00	3.09	

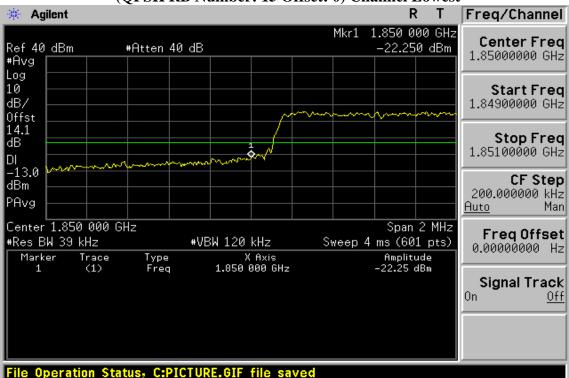
-14.73

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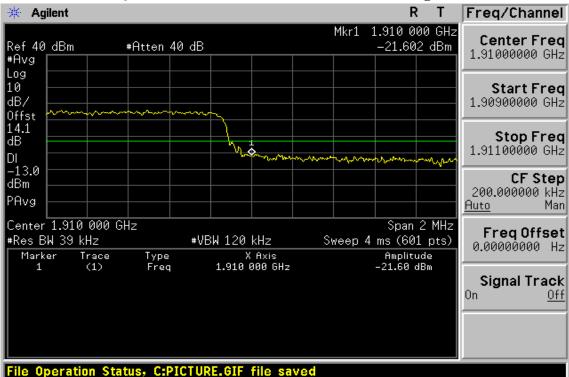
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Band edge emission at antenna terminals -3MHz BW LTE-Band 2

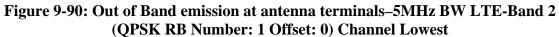
(QPSK RB Number: 15 Offset: 0) (QPSK RB Number: 25 Offset: 0) Test Mode 3MHz BW LTE-Band 2 Engineer :Nick

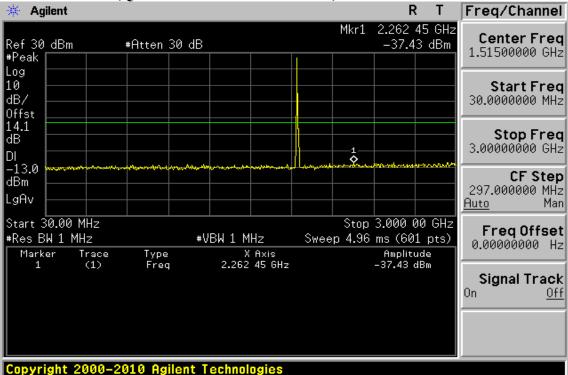
Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1850.000	-22.25	-13.00	9.25
1910.000	-21.60	-13.00	8.60

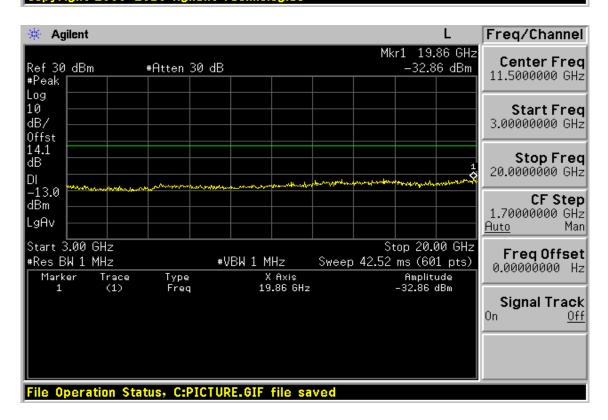
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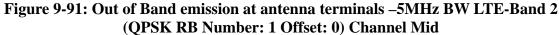


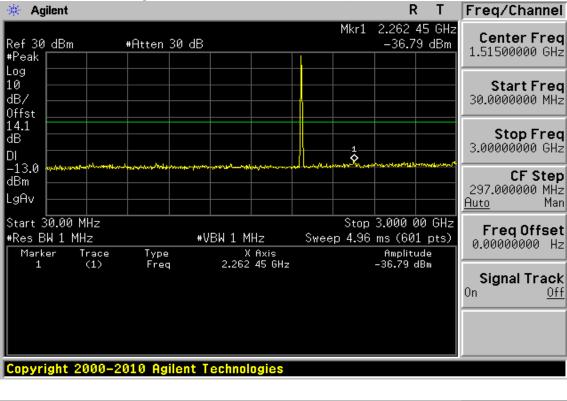


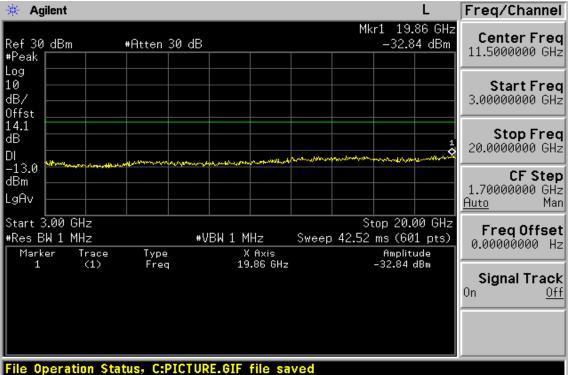


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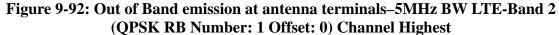


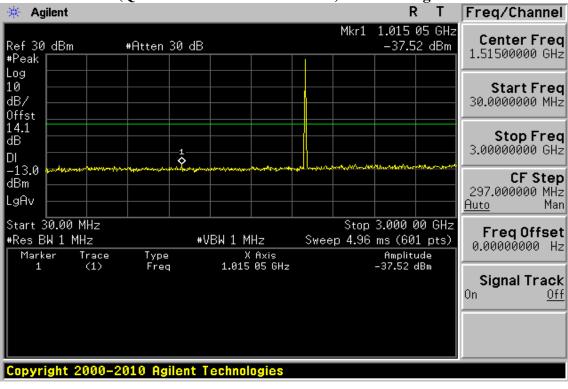


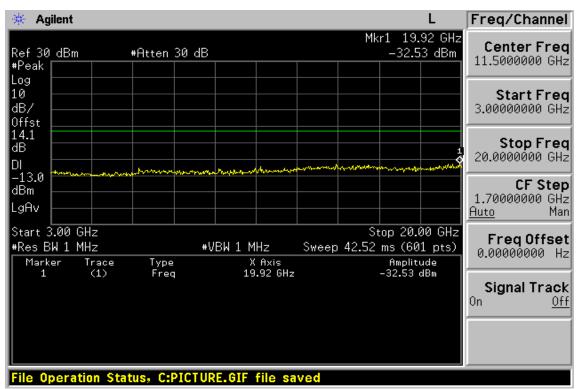


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Out of Band emission at antenna terminals -5MHz BW LTE-Band 2

(OPSK RB Number: 1 Offset: 0)

(\mathbf{x})			
Fundamental Frequency	:1852.5 MHz	Engineer	:Nick
Operation Mode	:TX Low		

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S		-13.00	
30-1000	S		-13.00	
3705.00	Н		-13.00	
5557.50	Н		-13.00	
7410.00	Н		-13.00	
9262.50	Н		-13.00	
11115.00	Н		-13.00	
12967.50	Н		-13.00	
14820.00	Н		-13.00	
16672.50	Н		-13.00	
18525.00	Н		-13.00	
19860.00	S	-32.86	-13.00	19.86

"H": denotes Harmonic Frequency. "S": denotes Spurious Frequency. Note : "---": denotes Noise Floor.

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Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 358 of 774

Fundamental Frequency Operation Mode		:1880.0 MHz Engineer :TX Mid		leer	:Nick
	Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
	20	S		12.00	
	<30 30-1000	S S		-13.00 -13.00	
	3760.00	Н		-13.00	
	5640.00	Н		-13.00	
	7520.00	Н		-13.00	
	9400.00	Н		-13.00	
	11280.00	Н		-13.00	
	13160.00	Н		-13.00	
	15040.00	Н		-13.00	
	16920.00	Н		-13.00	
	18800.00	Н		-13.00	
	19860.00	S	-32.84	-13.00	19.84

"H": denotes Harmonic Frequency. "S": denotes Spurious Frequency. Note : "---": denotes Noise Floor.

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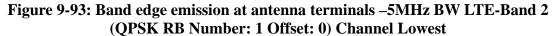
Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 359 of 774

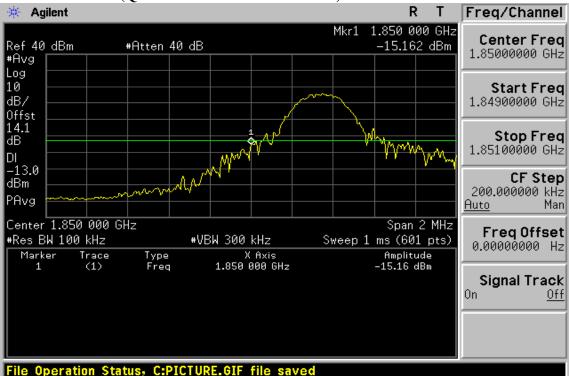
Fundamental Frequency Operation Mode		:1907.5 MHz Engineer :TX High		leer	:Nick	
	Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB	
	<30	S		-13.00		
	<30 30-1000	S		-13.00		
	3815.00	Н		-13.00		
	5722.50	Н		-13.00		
	7630.00	Н		-13.00		
	9537.50	Н		-13.00		
	11445.00	Н		-13.00		
	13352.50	Н		-13.00		
	15260.00	Н		-13.00		
	17167.50	Н		-13.00		
	19075.00	Н		-13.00		
	19920.00	S	-32.53	-13.00	19.53	

"H": denotes Harmonic Frequency. "S": denotes Spurious Frequency. Note : "": denotes Spurious Freque

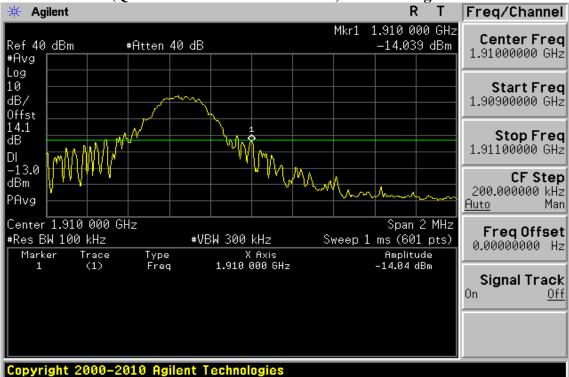
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:Nick

Band edge emission at antenna terminals -5MHz BW LTE-Band 2

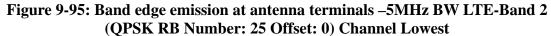
(QPSK RB Number: 1 Offset: 0) (QPSK RB Number: 1 Offset: 24) Test Mode 5MHz BW LTE-Band 2 Engineer

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1850.000	-15.16	-13.00	2.16
1910.000	-14.04	-13.00	1.04

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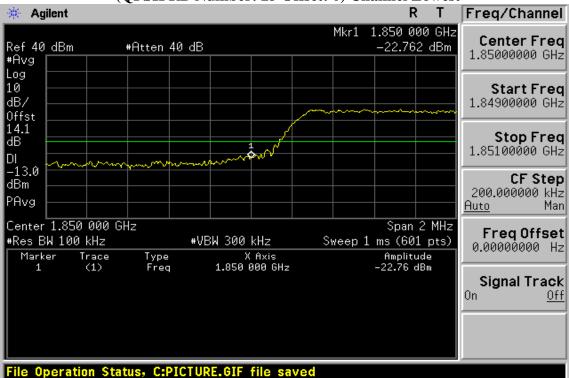
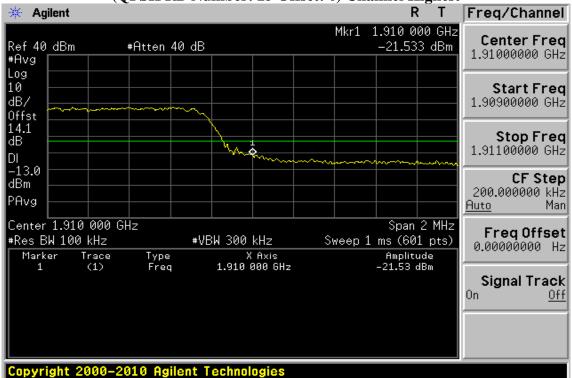


Figure 9-96: Band edge emission at antenna terminals –5MHz BW LTE-Band 2 (QPSK RB Number: 25 Offset: 0) Channel Highest



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Test Mode

Band edge emission at antenna terminals -5MHz BW LTE-Band 2

(QPSK RB Number: 25 Offset: 0)

;	5MHz BW	5MHz BW LTE-Band 2			:Nick
	Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB	
	1850.000 1910.000	-22.76 -21.53	-13.00 -13.00	9.76 8.53	

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dB

dBm

LgAv

Start 3.00 GHz

#Res BW 1 MHz

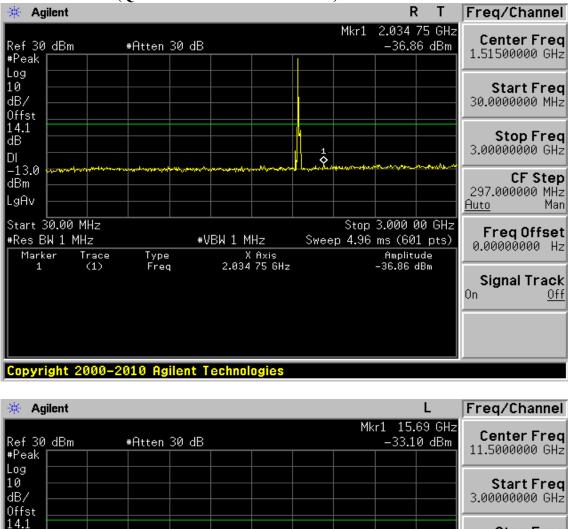
Trace (1)

Marker

1

DI -13.0





File Operation Status, C:PICTURE.GIF file saved

Type Freq

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#VBW 1 MHz

X Axis 15.69 GHz

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Stop Freq

CF Step

Man

Off

20.0000000 GHz

1.70000000 GHz

Freq Offset

0.00000000 Hz

Signal Track

Auto

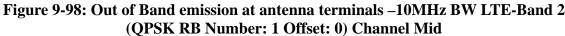
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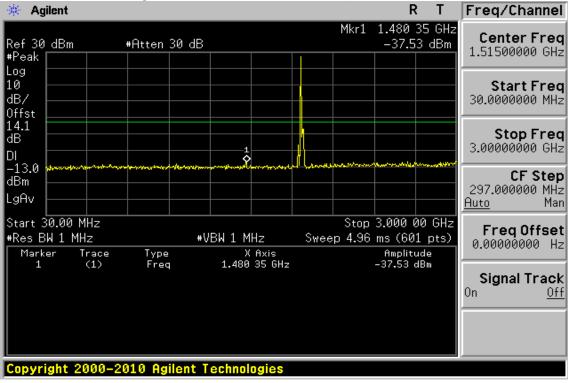
Stop 20.00 GHz

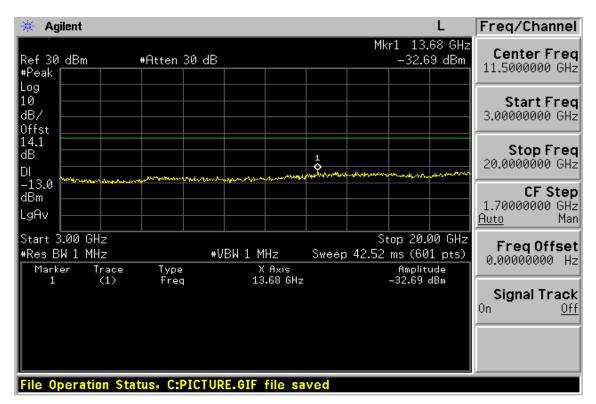
Amplitude -33.10 dBm

Sweep 42.52 ms (601 pts)





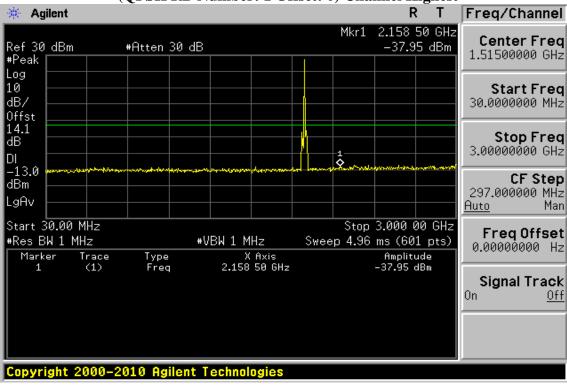


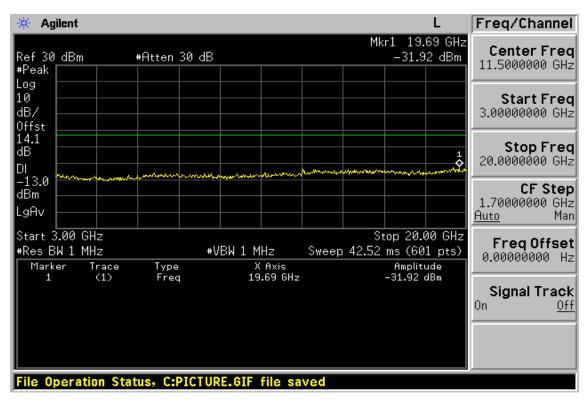


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Out of Band emission at antenna terminals -10MHz BW LTE-Band 2

(OPSK RB Number: 1 Offset: 0)

Fundamental Frequency	:1855.0 MHz	Engine	er	:Nick
Operation Mode	:TX Low			
			.	Safe

_	Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
	<30	S		-13.00	
	30-1000	S		-13.00	
	3710.00	Н		-13.00	
	5565.00	Н		-13.00	
	7420.00	Н		-13.00	
	9275.00	Н		-13.00	
	11130.00	Н		-13.00	
	12985.00	Н		-13.00	
	14840.00	Н		-13.00	
	15690.00	S	-33.10	-13.00	20.10
	16695.00	Н		-13.00	
	18550.00	Н		-13.00	

"H": denotes Harmonic Frequency. "S": denotes Spurious Frequency. Note : "---": denotes Noise Floor.

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Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 368 of 774

. . . .

Fundamental Frequency Operation Mode		:1880.0 MHz :TX Mid	Engineer		:Nick
	Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
	<30	S		-13.00	
	30-1000	S		-13.00	
	3760.00	Н		-13.00	
	5640.00	Н		-13.00	
	7520.00	Н		-13.00	
	9400.00	Н		-13.00	
	11280.00	Н		-13.00	
	13160.00	Н		-13.00	
	13680.00	S	-32.69	-13.00	19.69
	15040.00	Н		-13.00	
	16920.00	Н		-13.00	
	18800.00	Н		-13.00	

"H": denotes Harmonic Frequency. "S": denotes Spurious Frequency. Note : "---": denotes Noise Floor.

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Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 369 of 774

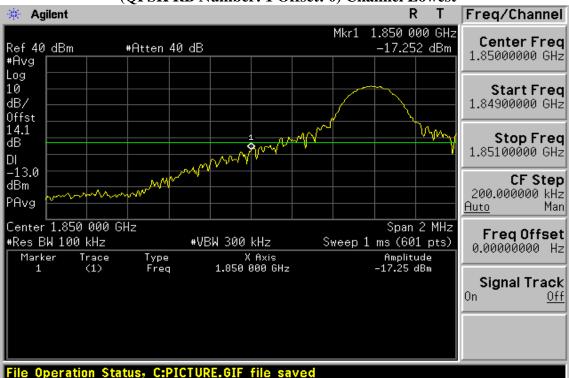
Fundamental Frequency Operation Mode		:1905.0 MHz Engine :TX High		eer	:Nick
	Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
	<30	S		-13.00	
	30-1000	S		-13.00	
	3810.00	Н		-13.00	
	5715.00	Н		-13.00	
	7620.00	Н		-13.00	
	9525.00	Н		-13.00	
	11430.00	Н		-13.00	
	13335.00	Н		-13.00	
	15240.00	Н		-13.00	
	17145.00	Н		-13.00	
	19050.00	Н		-13.00	
	19690.00	S	-31.92	-13.00	18.92

"H": denotes Harmonic Frequency. "S": denotes Spurious Frequency. Note : "": denotes Spurious Freque

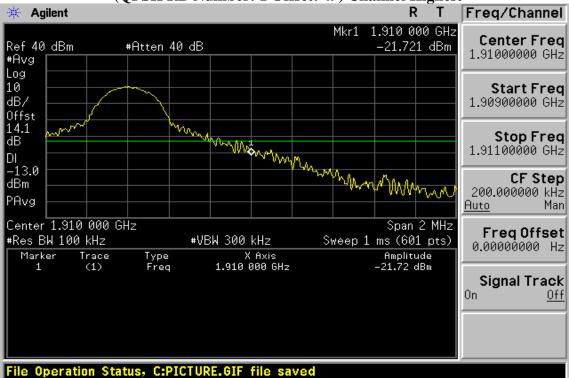
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Band edge emission at antenna terminals -10MHz BW LTE-Band 2

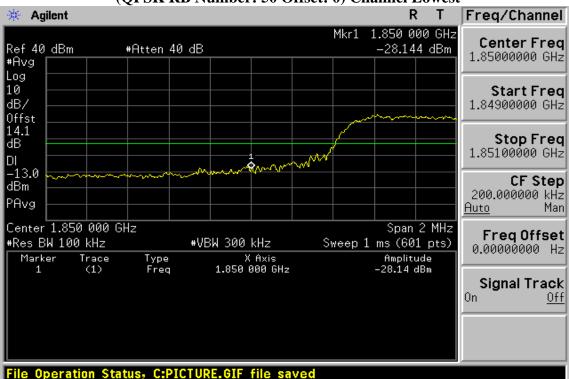
(QPSK RB Number: 1 Offset: 0) (QPSK RB Number: 1 Offset: 49) Test Mode 10MHz BW LTE-Band 2 Engineer :Nick Safe Reading Limit Freq.

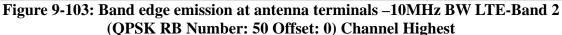
MHz	dBm	dBm	Margin dB
1850.000	-17.25	-13.00	4.25
1910.000	-21.72	-13.00	8.72

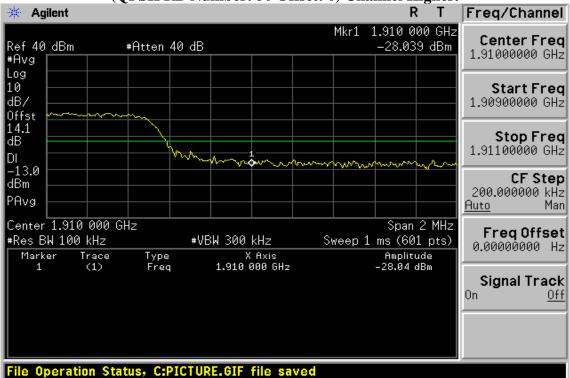
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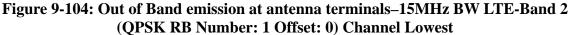
Band edge emission at antenna terminals -10MHz BW LTE-Band 2

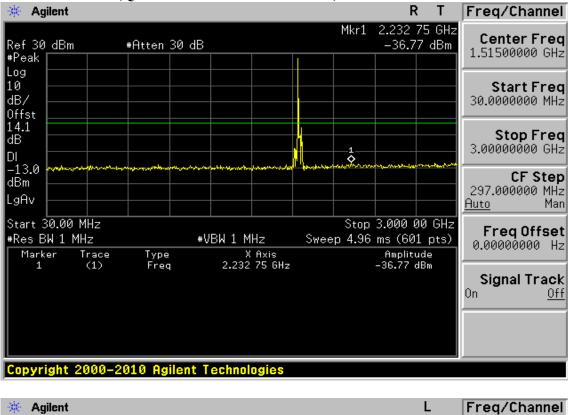
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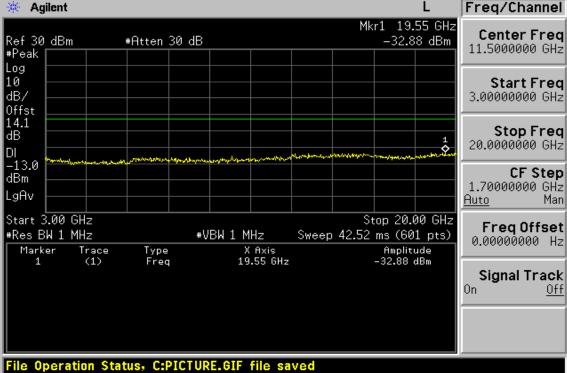
Test Mode	10MHz BV	10MHz BW LTE-Band 2		Engineer	
	Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB	_
	1850.000 1910.000	-28.14 -28.04	-13.00 -13.00	15.14 15.04	

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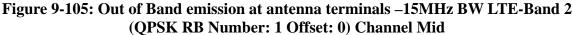


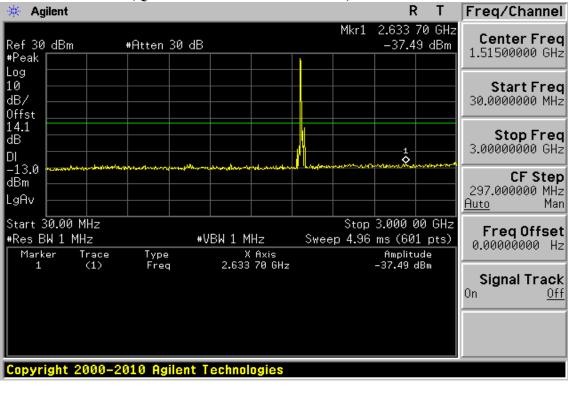


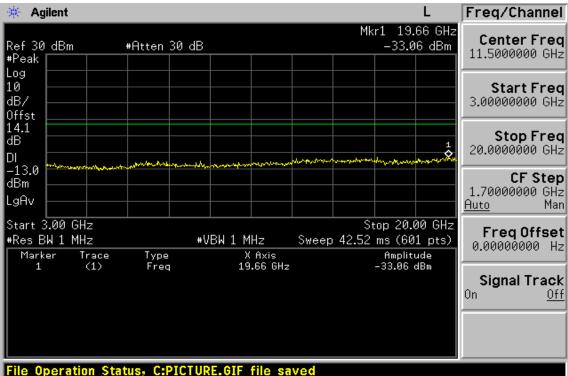


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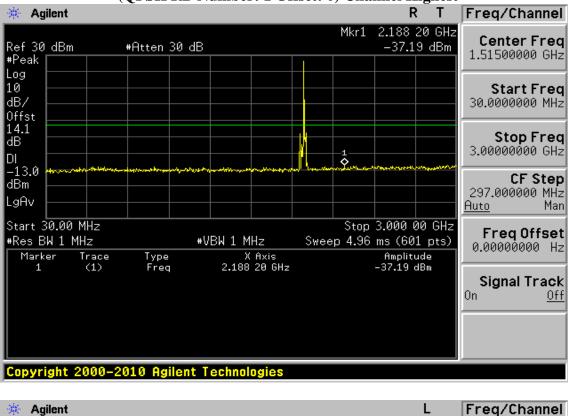


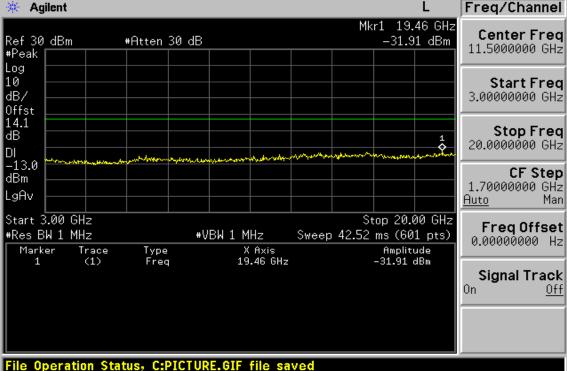


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Out of Band emission at antenna terminals -15MHz BW LTE-Band 2

(OPSK RB Number: 1 Offset: 0)

Fundamental Frequency Operation Mode	,	Engine	Engineer	
Freq	Note	Reading	Limit	Safe

Freq. (MHz)	Note F/H/E/S	dBm	dBm	Margin dB
<30	S		-13.00	
30-1000	S		-13.00	
3714.00	Н		-13.00	
5571.00	Н		-13.00	
7428.00	Н		-13.00	
9285.00	Н		-13.00	
11142.00	Н		-13.00	
12999.00	Н		-13.00	
14856.00	Н		-13.00	
16713.00	Н		-13.00	
18570.00	Н		-13.00	
19550.00	S	-32.88	-13.00	19.88

"H": denotes Harmonic Frequency. "S": denotes Spurious Frequency. Note : "---": denotes Noise Floor.

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Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 378 of 774

Fundamental Frequency Operation Mode		:1880.0 MHz Engineer :TX Mid		ieer	:Nick
	Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
	20	S		12.00	
	<30 30-1000	S S		-13.00 -13.00	
	3760.00	H		-13.00	
	5640.00	Н		-13.00	
	7520.00	Н		-13.00	
	9400.00	Н		-13.00	
	11280.00	Н		-13.00	
	13160.00	Н		-13.00	
	15040.00	Н		-13.00	
	16920.00	Н		-13.00	
	18800.00	Н		-13.00	
	19660.00	S	-33.06	-13.00	20.06

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Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 379 of 774

Fundamental Frequency Operation Mode		:1902.5 MHz Engineer :TX High		leer	:Nick	
	Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB	
	.20	S		-13.00		
	<30 30-1000	S		-13.00		
	3805.00	Н		-13.00		
	5707.50	Н		-13.00		
	7610.00	Н		-13.00		
	9512.50	Н		-13.00		
	11415.00	Н		-13.00		
	13317.50	Н		-13.00		
	15220.00	Н		-13.00		
	17122.50	Н		-13.00		
	19025.00	Н		-13.00		
	19460.00	S	-31.91	-13.00	18.91	

"H": denotes Harmonic Frequency. "S": denotes Spurious Frequency. Note : "": denotes Spurious Freque

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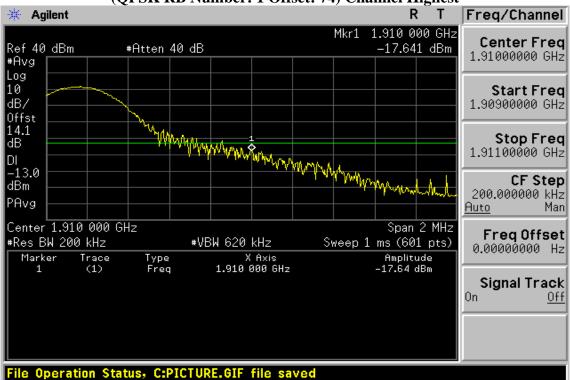
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Figure 9-108: Band edge emission at antenna terminals –15MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 74) Channel Highest



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:Nick

Band edge emission at antenna terminals -15MHz BW LTE-Band 2

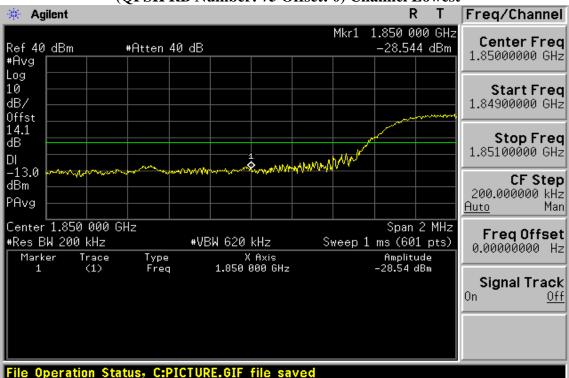
(QPSK RB Number: 1 Offset: 0) (QPSK RB Number: 1 Offset: 74) Test Mode 15MHz BW LTE-Band 2 Engineer

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1850.000	-19.90	-13.00	6.90
1910.000	-17.64	-13.00	4.64

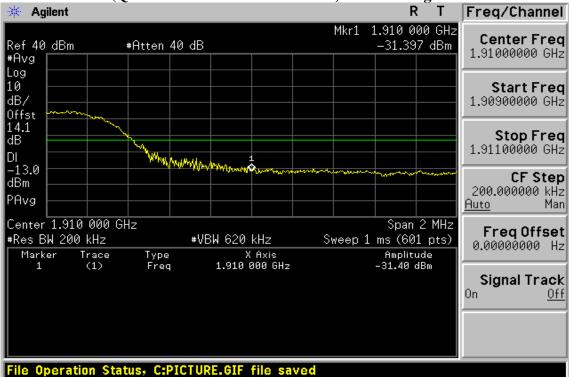
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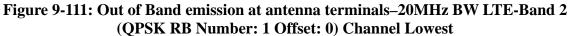
Band edge emission at antenna terminals -15MHz BW LTE-Band 2

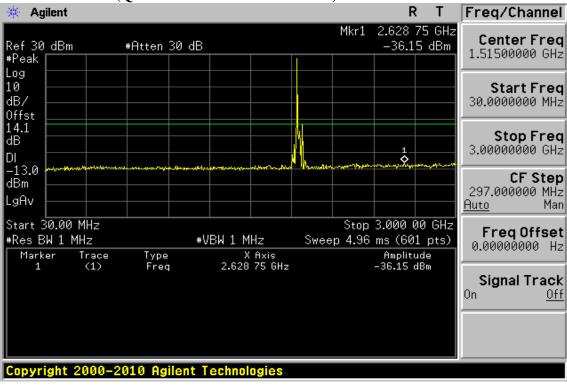
(QPSK RB Number: 75 Offset: 0)

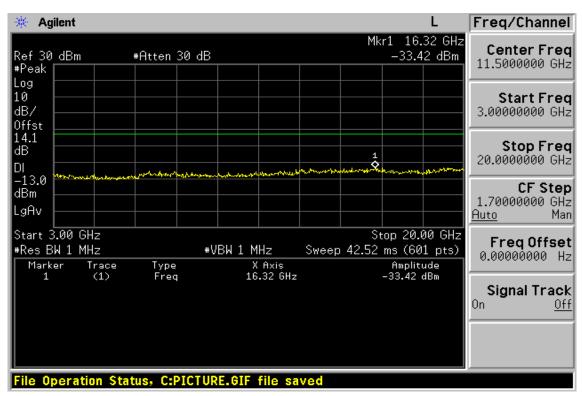
Test Mode	15MHz BV	15MHz BW LTE-Band 2			:Nick
	Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB	_
	1850.000 1910.000	-28.54 -31.40	-13.00 -13.00	15.54 18.40	

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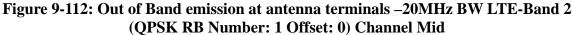


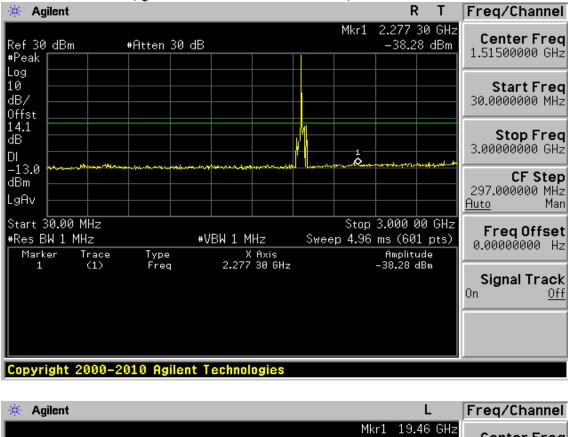


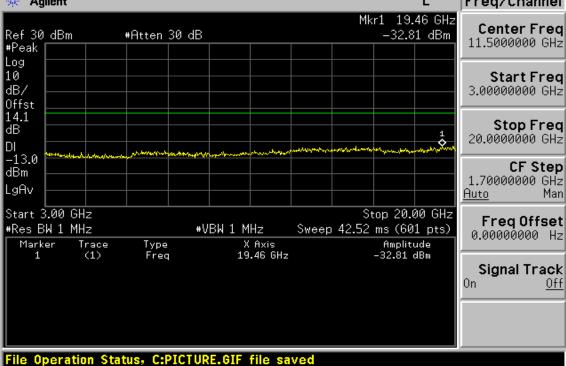




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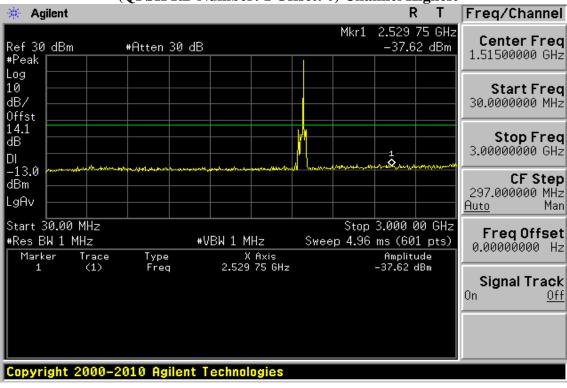


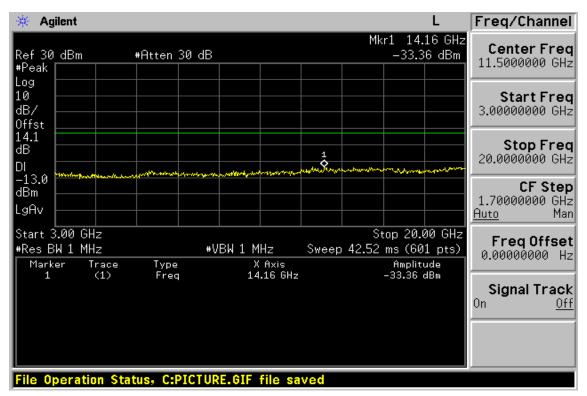


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Out of Band emission at antenna terminals -20MHz BW LTE-Band 2

(OPSK RB Number: 1 Offset: 0)

Fundamental Frequency Operation Mode	:1860.0 MHz :TX Low	Engin	Engineer	
Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB

_					dB
	<30	S		-13.00	
	30-1000	S		-13.00	
	3720.00	Н		-13.00	
	5580.00	Н		-13.00	
	7440.00	Н		-13.00	
	9300.00	Н		-13.00	
	11160.00	Н		-13.00	
	13020.00	Н		-13.00	
	14880.00	Н		-13.00	
	16320.00	S	-33.42	-13.00	20.42
	16740.00	Н		-13.00	
	18600.00	Н		-13.00	

"H": denotes Harmonic Frequency. "S": denotes Spurious Frequency. Note : "---": denotes Noise Floor.

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Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 388 of 774

Fundamental Frequency Operation Mode		:1880.0 MHz Engineer :TX Mid		ieer	:Nick
	Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
	<30	S		-13.00	
	30-1000	S		-13.00	
	3760.00	Н		-13.00	
	5640.00	Н		-13.00	
	7520.00	Н		-13.00	
	9400.00	Н		-13.00	
	11280.00	Н		-13.00	
	13160.00	Н		-13.00	
	15040.00	Н		-13.00	
	16920.00	Н		-13.00	
	18800.00	Н		-13.00	
	19460.00	S	-32.81	-13.00	19.81

"H": denotes Harmonic Frequency. "S": denotes Spurious Frequency. Note : "---": denotes Noise Floor.

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Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 389 of 774

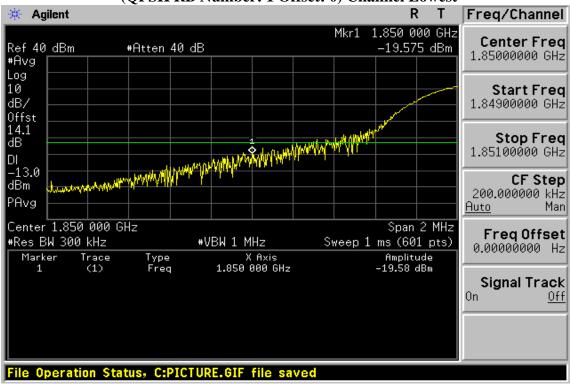
Fundamental Frequence Operation Mode	y :1900MHz :TX High	:1900MHz Ex :TX High		:Nick
Fre (MH	1	ote Readin /E/S dBm	g Limit dBm	Safe Margin dB
<3	0 5	5	-13.00	
30-1		5	-13.00	
3800	0.00 H	I	-13.00	
5700	0.00 H	I	-13.00	
7600	0.00 H	·	-13.00	
9500	0.00 H	·	-13.00	
1140	0.00 H	H	-13.00	
1330	0.00 H	H	-13.00	
1416	0.00	-33.36	-13.00	20.36
1520	0.00 H	· I	-13.00	
1710	0.00 H	H	-13.00	
1900	0.00 H	·	-13.00	

"H": denotes Harmonic Frequency. "S": denotes Spurious Frequency. Note : "": denotes Spurious Freque

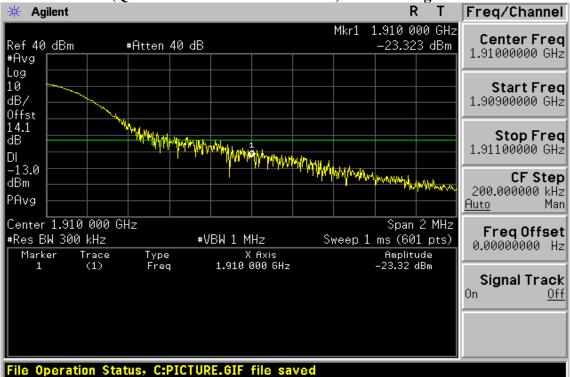
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:Nick

Band edge emission at antenna terminals -20MHz BW LTE-Band 2

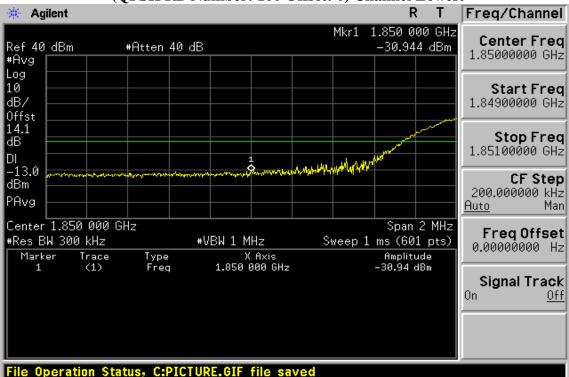
(QPSK RB Number: 1 Offset: 0) (QPSK RB Number: 1 Offset: 99) Test Mode 20MHz BW LTE-Band 2 Engineer

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1850.000	-19.58	-13.00	6.58
1910.000	-23.32	-13.00	10.32

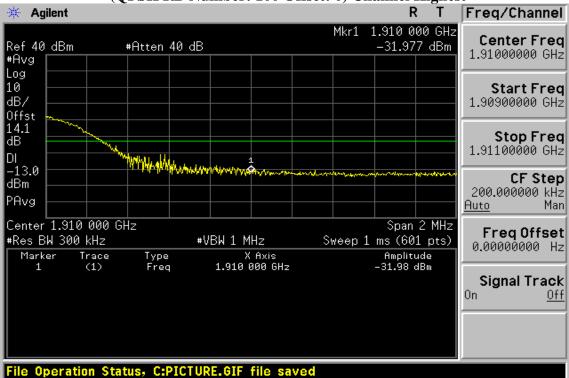
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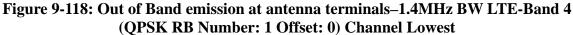
Band edge emission at antenna terminals -20MHz BW LTE-Band 2

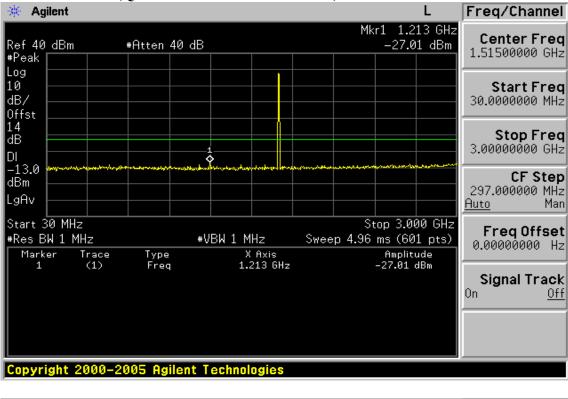
(QPSK RB Number: 100 Offset: 0)

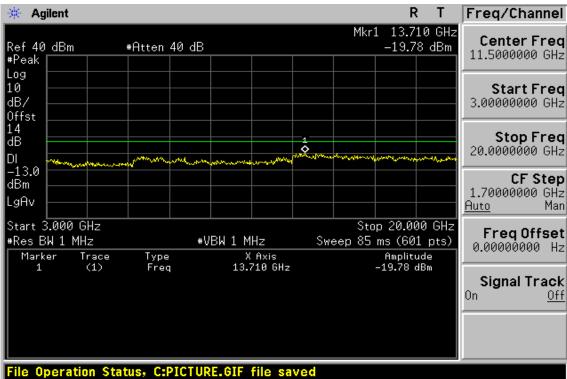
Test Mode	20MHz BV	20MHz BW LTE-Band 2			:Nick	
	Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB	_	
	1850.000 1910.000	-30.94 -31.98	-13.00 -13.00	17.94 18.98		

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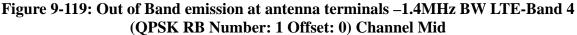


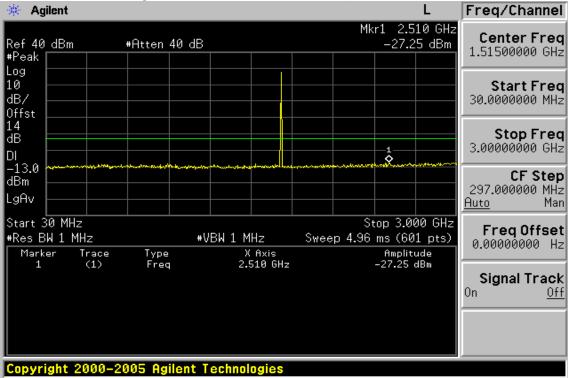


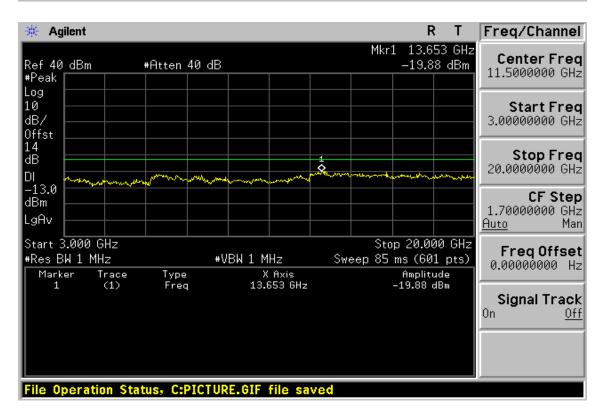


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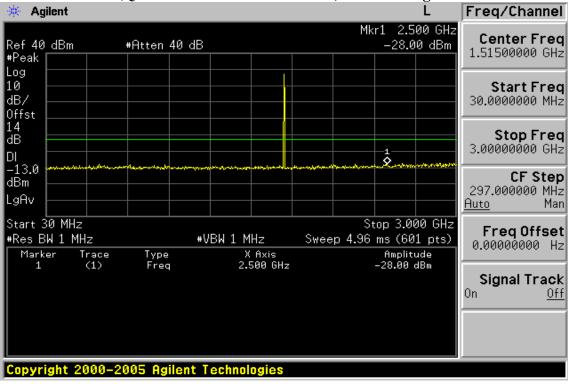


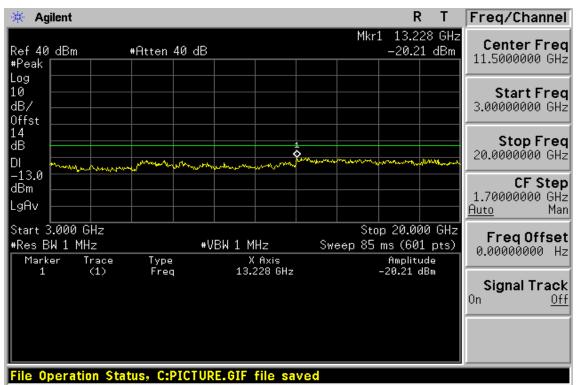
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Out of Band emission at antenna terminals -1.4MHz BW LTE-Band 4

(QPSK RB Number: 1 Offset: 0)

Fundamental Frequency Operation Mode	:1710.7 MHz :TX Low	Engineer		:Marcus	
Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB	

_					uD
-					
	<30	S		-13.00	
	30-1000	S		-13.00	
	3421.40	Н		-13.00	
	5132.10	Н		-13.00	
	6842.80	Н		-13.00	
	8553.50	Н		-13.00	
	10264.20	Н		-13.00	
	11974.90	Н		-13.00	
	13685.60	Н		-13.00	
	13710.00	S	-19.78	-13.00	6.78
	15396.30	Н		-13.00	
	17107.00	Н		-13.00	

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Fundamental Deperation Mo		:1732.5 MHz :TX Mid	Engin	eer	:Marcus
	Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
	<30	S		-13.00	
	30-1000	S		-13.00	
	3465.00	Н		-13.00	
	5197.50	Н		-13.00	
	6930.00	Н		-13.00	
	8662.50	Н		-13.00	
	10395.00	Н		-13.00	
	12127.50	Н		-13.00	
	13653.00	S	-19.88	-13.00	6.88
	13860.00	Н		-13.00	
	15592.50	Н		-13.00	
	17325.00	Н		-13.00	

"H": denotes Harmonic Frequency. "S": denotes Spurious Frequency. Note : "---": denotes Noise Floor.

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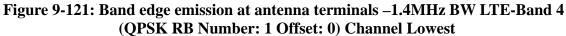


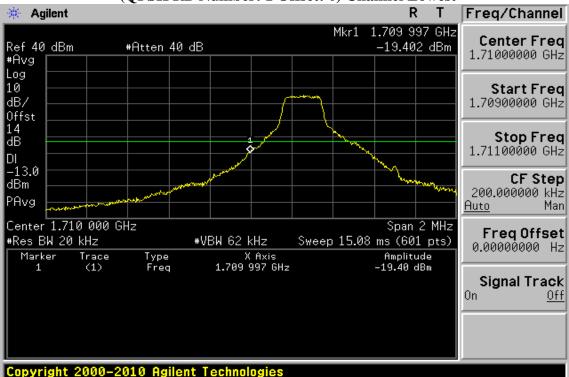
Fundamental Dependent		:1754.3MHz :TX High	Engir	neer	:Marcus
	Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
	<30	S		-13.00	
	30-1000	S		-13.00	
	3508.60	Н		-13.00	
	5262.90	Н		-13.00	
	7017.20	Н		-13.00	
	8771.50	Н		-13.00	
	10525.80	Н		-13.00	
	12280.10	Н		-13.00	
	13228.00	S	-20.21	-13.00	7.21
	14034.40	Н		-13.00	
	15788.70	Н		-13.00	
	17543.00	Н		-13.00	

"H": denotes Harmonic Frequency. "S": denotes Spurious Frequency. Note : "": denotes Spurious Freque

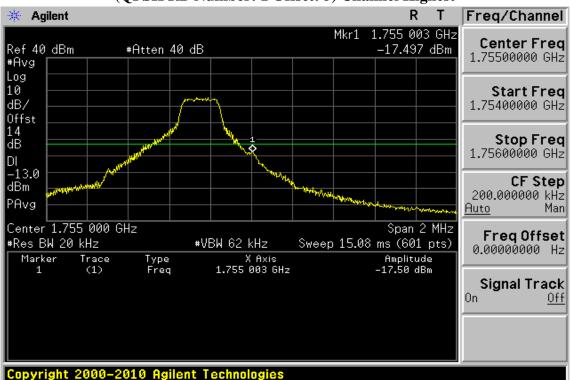
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Band edge emission at antenna terminals -1.4MHz BW LTE-Band 4

(QPSK RB Number: 1 Offset: 0) (QPSK RB Number: 1 Offset: 5)

Test Mode 1.4MHz BW LTE-Band 4 Engineer :Marcus

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1709.997	-19.40	-13.00	6.40
1755.003	-17.50	-13.00	4.50

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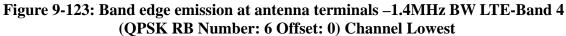
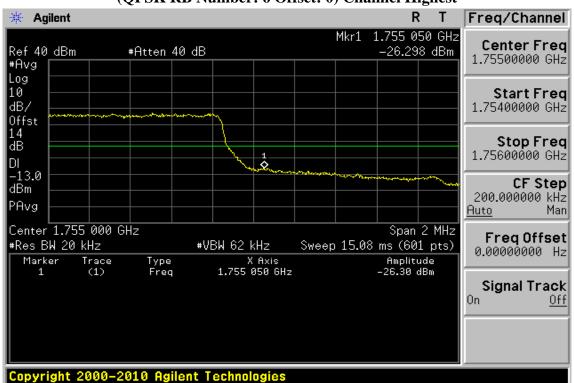




Figure 9-124: Band edge emission at antenna terminals –1.4MHz BW LTE-Band 4 (QPSK RB Number: 6 Offset: 0) Channel Highest



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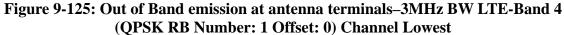
Band edge emission at antenna terminals -1.4MHz BW LTE-Band 4

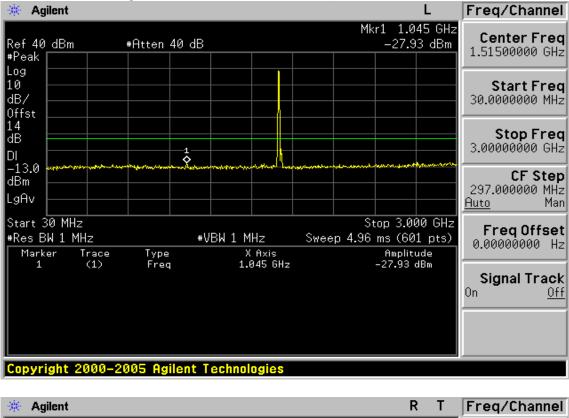
(QPSK RB Number: 6 Offset: 0)

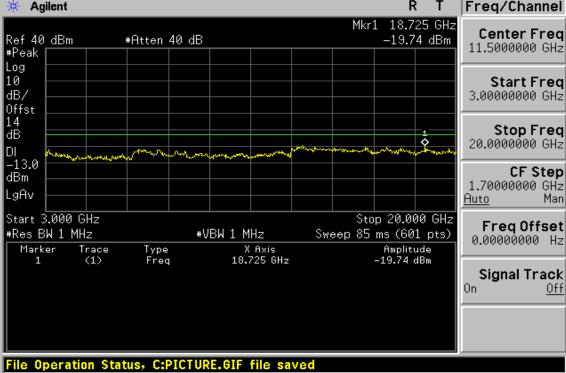
Test Mode	1.4MHz BW LTE-Band 4		Engineer		:Marcus	
	Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB		
	1709.953 1755.050	-24.43 -26.30	-13.00 -13.00	11.43 13.30		

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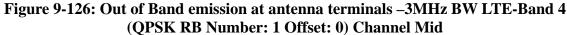


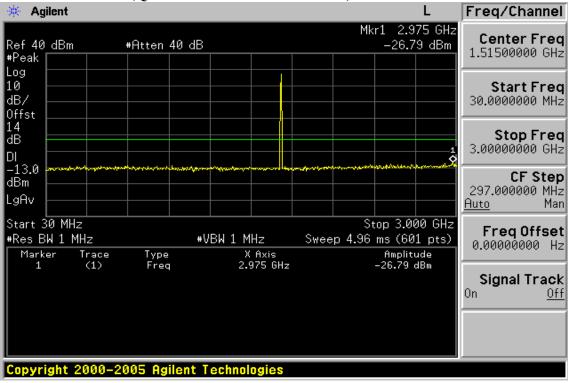


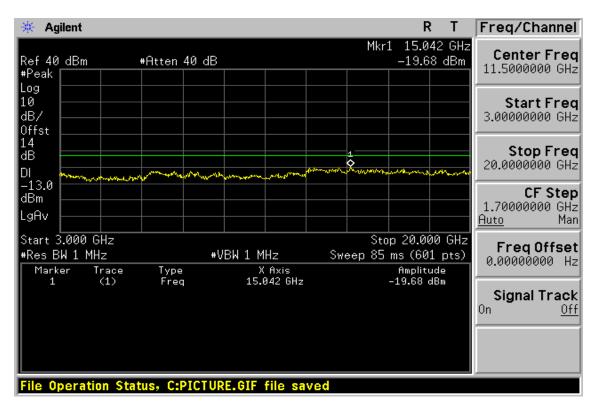


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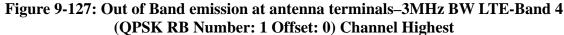


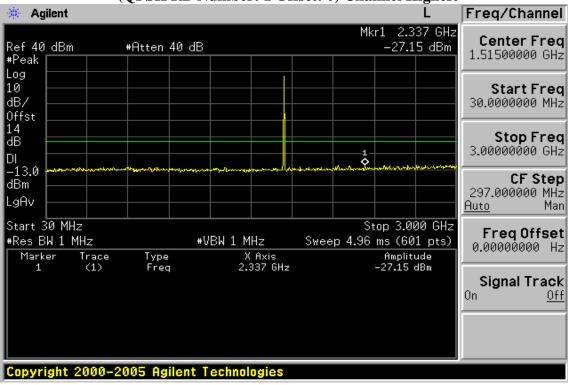


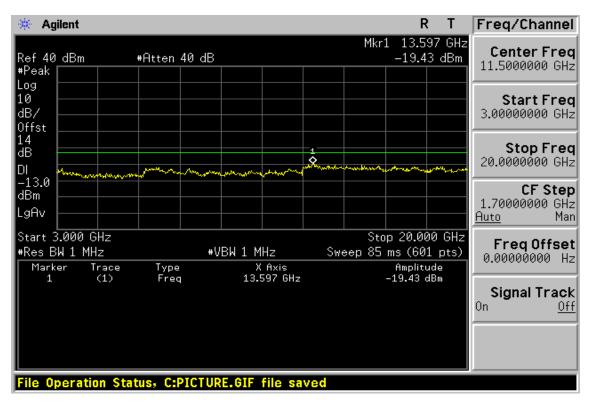
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Out of Band emission at antenna terminals -3MHz BW LTE-Band 4

(OPSK RB Number: 1 Offset: 0)

Fundamental Frequency Operation Mode	,	Engineer		:Marcus
Frea	Note	Reading	Limit	Safe

	(MHz)	F/H/E/S	dBm	dBm	Margin dB
-					
	<30	S		-13.00	
	30-1000	S		-13.00	
	3423.00	Н		-13.00	
	5134.50	Н		-13.00	
	6846.00	Н		-13.00	
	8557.50	Н		-13.00	
	10269.00	Н		-13.00	
	11980.50	Н		-13.00	
	13692.00	Н		-13.00	
	15403.50	Н		-13.00	
	17115.00	Н		-13.00	
	18725.00	S	-19.74	-13.00	6.74

"H": denotes Harmonic Frequency. "S": denotes Spurious Frequency. Note : "---": denotes Noise Floor.

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Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 408 of 774

Fundamental Frequency Operation Mode		:1732.5 MHz Engineer :TX Mid		eer	:Marcus
	Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
	<30	S		-13.00	
	30-1000	S		-13.00	
	3465.00	Н		-13.00	
	5197.50	Н		-13.00	
	6930.00	Н		-13.00	
	8662.50	Н		-13.00	
	10395.00	Н		-13.00	
	12127.50	Н		-13.00	
	13860.00	Н		-13.00	
	15042.00	S	-19.68	-13.00	6.68
	15592.50	Н		-13.00	
	17325.00	Н		-13.00	

"H": denotes Harmonic Frequency. "S": denotes Spurious Frequency. Note : "---": denotes Noise Floor.

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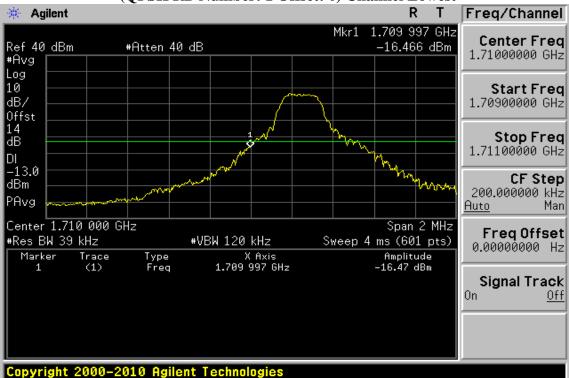
Fundamental Frequency Operation Mode		:1753.5MHz :TX High	0		:Marcus
	Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
	<30	S		-13.00	
	30-1000	S		-13.00	
	3507.00	Н		-13.00	
	5260.50	Н		-13.00	
	7014.00	Н		-13.00	
	8767.50	Н		-13.00	
	10521.00	Н		-13.00	
	12274.50	Н		-13.00	
	13597.00	S	-19.43	-13.00	6.43
	14028.00	Н		-13.00	
	15781.50	Н		-13.00	
	17535.00	Н		-13.00	

"H": denotes Harmonic Frequency. "S": denotes Spurious Frequency. Note : "": denotes Spurious Freque

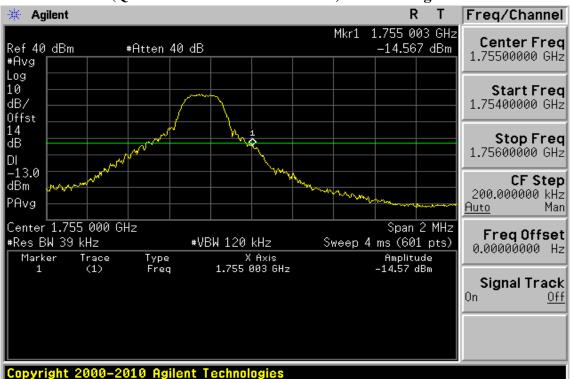
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1.57

-13.00

Band edge emission at antenna terminals -3MHz BW LTE-Band 4

1755.003

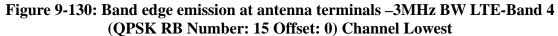
(QPSK RB Number: 1 Offset: 0) (QPSK RB Number: 1 Offset: 14) Test Mode 3MHz BW LTE-Band 4 Engineer :Marcus Safe Freq. Reading Limit Margin dBm MHz dBm dB -16.47 -13.00 3.47 1709.997

-14.57

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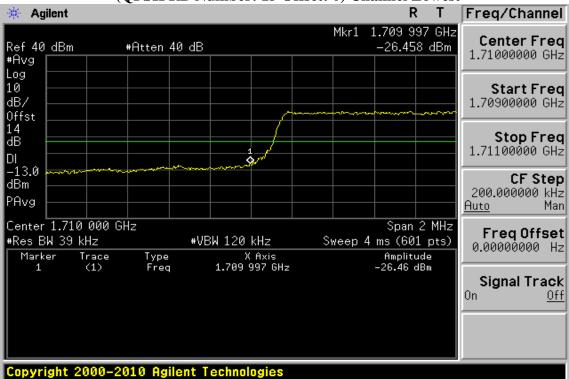
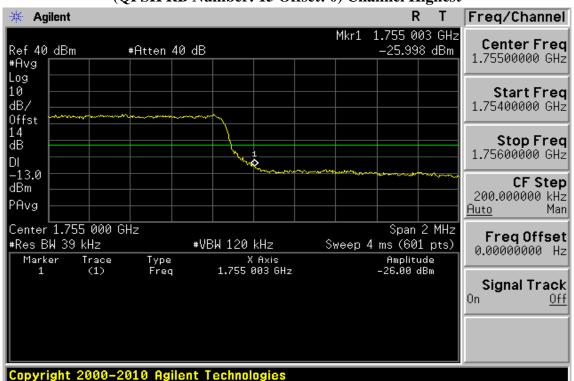


Figure 9-131: Band edge emission at antenna terminals –3MHz BW LTE-Band 4 (QPSK RB Number: 15 Offset: 0) Channel Highest



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Band edge emission at antenna terminals -3MHz BW LTE-Band 4

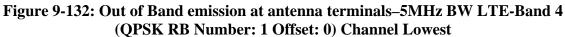
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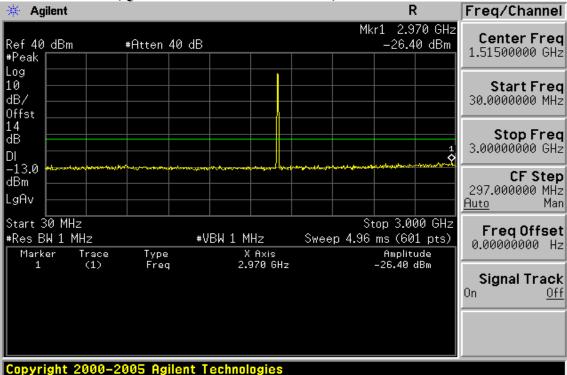
Test Mode	3MHz BW	3MHz BW LTE-Band 4		Engineer	
	Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB	_
	1709.997 1755.003	-26.46 -26.00	-13.00 -13.00	13.46 13.00	

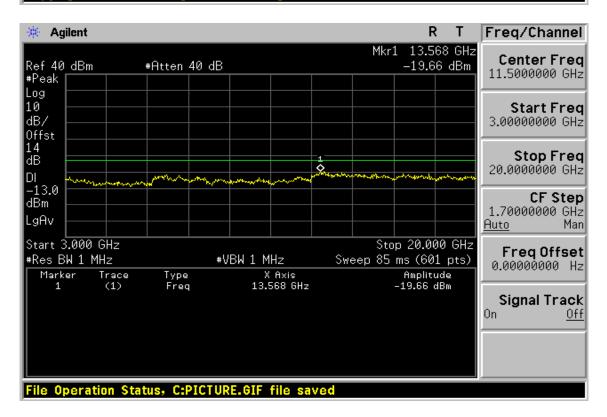
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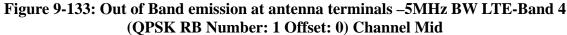


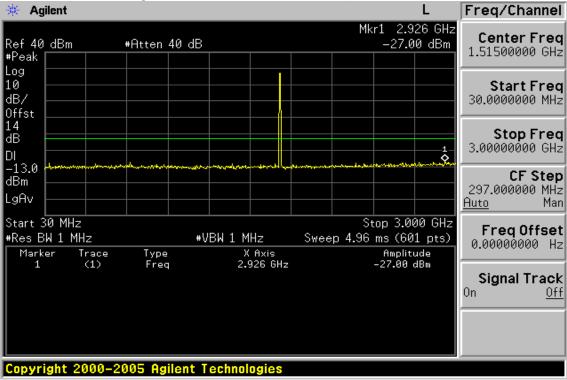


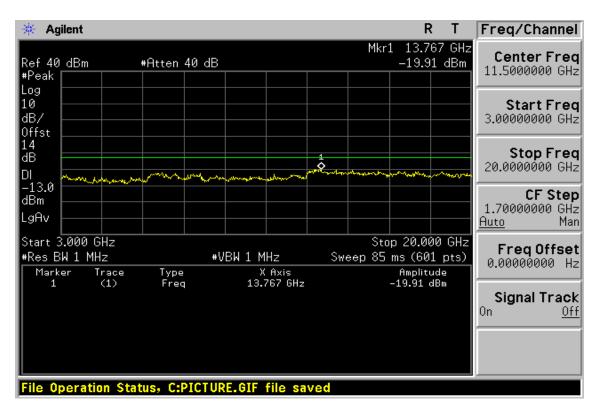


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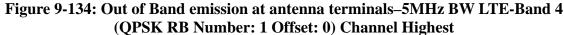


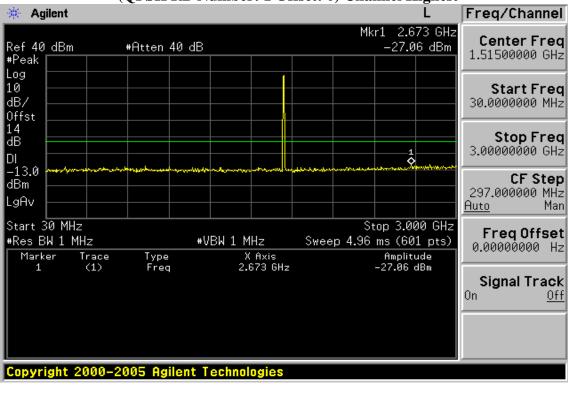


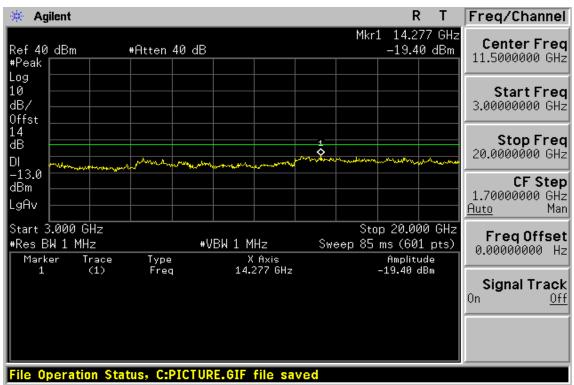


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Out of Band emission at antenna terminals -5MHz BW LTE-Band 4

(OPSK RB Number: 1 Offset: 0)

Fundamental Frequency Operation Mode	:1712.5 MHz :TX Low	Engine	er	:Marcus
Freq	Note	Reading	Limit	Safe

 (MHz)	F/H/E/S	dBm	dBm	Margin dB
<30	S		-13.00	
30-1000	S		-13.00	
3425.00	Н		-13.00	
5137.50	Н		-13.00	
6850.00	Н		-13.00	
8562.50	Н		-13.00	
10275.00	Н		-13.00	
11987.50	Н		-13.00	
13568.00	S	-19.66	-13.00	6.66
13700.00	Н		-13.00	
15412.50	Н		-13.00	
17125.00	Н		-13.00	

"H": denotes Harmonic Frequency. "S": denotes Spurious Frequency. Note : "---": denotes Noise Floor.

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Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 418 of 774

Fundamental Frequency Operation Mode		:1732.5 MHz Engineer :TX Mid		neer	:Marcus
	Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
	<30	S		-13.00	
	30-1000	S		-13.00	
	3465.00	Н		-13.00	
	5197.50	Н		-13.00	
	6930.00	Н		-13.00	
	8662.50	Н		-13.00	
	10395.00	Н		-13.00	
	12127.50	Н		-13.00	
	13767.00	S	-19.91	-13.00	6.91
	13860.00	Н		-13.00	
	15592.50	Н		-13.00	
	17325.00	Н		-13.00	

"H": denotes Harmonic Frequency. "S": denotes Spurious Frequency. Note : "---": denotes Noise Floor.

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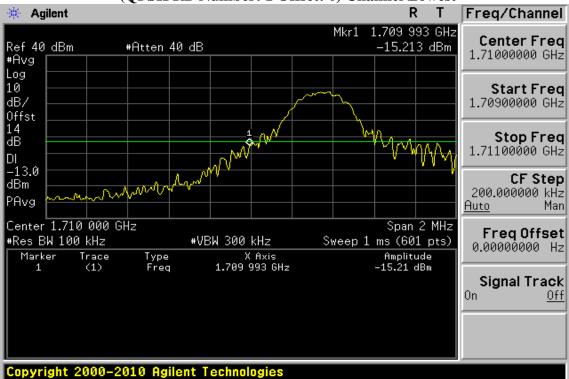
Fundamental Frequency Operation Mode		:1752.5 MHz Engineer :TX High		neer	:Marcus
	Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
	<30	S		-13.00	
	30-1000	S		-13.00	
	3505.00	Н		-13.00	
	5257.50	Н		-13.00	
	7010.00	Н		-13.00	
	8762.50	Н		-13.00	
	10515.00	Н		-13.00	
	12267.50	Н		-13.00	
	14020.00	Н		-13.00	
	14227.00	S	-19.4	-13.00	6.40
	15772.50	Н		-13.00	
	17525.00	Н		-13.00	

"H": denotes Harmonic Frequency. "S": denotes Spurious Frequency. Note : "": denotes Spurious Freque

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Band edge emission at antenna terminals -5MHz BW LTE-Band 4

1709.993 1755.027

(QPSK RB Number: 1 Offset: 0) (QPSK RB Number: 1 Offset: 24) Test Mode 5MHz BW LTE-Band 4 Engineer :Marcus Safe Freq. Reading Limit Margin dBm MHz dBm dB

-15.21

-14.94

-13.00

-13.00

2.21

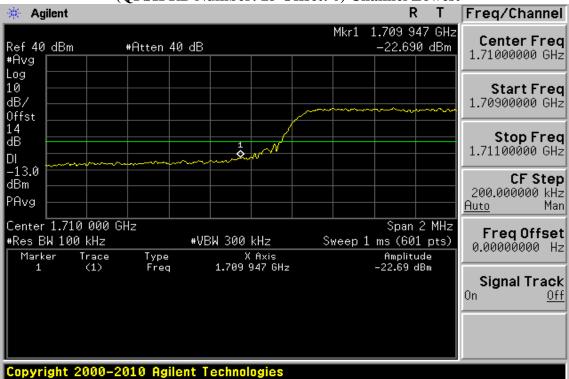
1.94

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Test Mode

Band edge emission at antenna terminals -5MHz BW LTE-Band 4

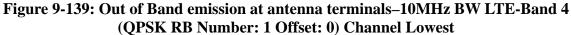
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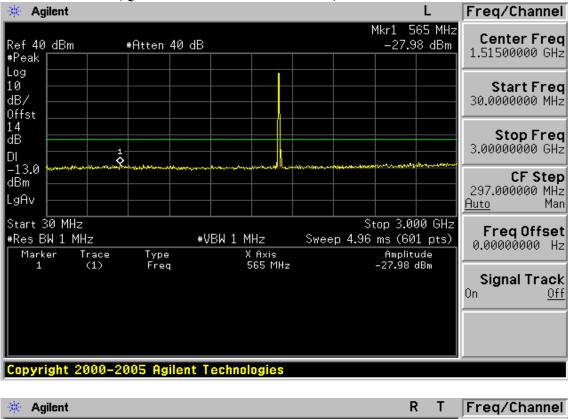
e	5MHz BW LTE-Band 4		Engineer		:Marcus
	Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB	
	1709.947 1755.003	-22.69 -22.99	-13.00 -13.00	9.69 9.99	

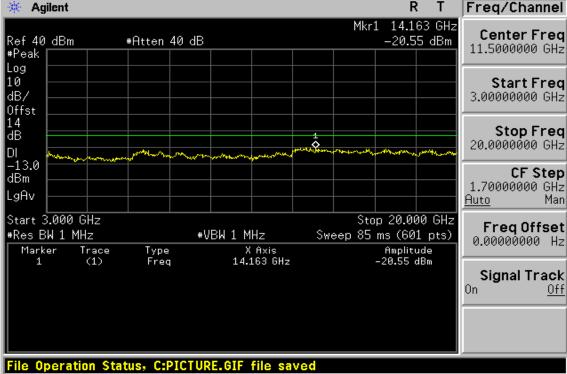
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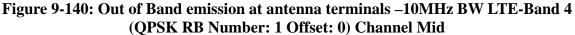


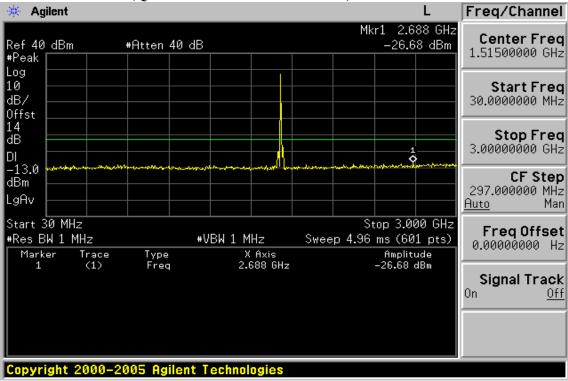


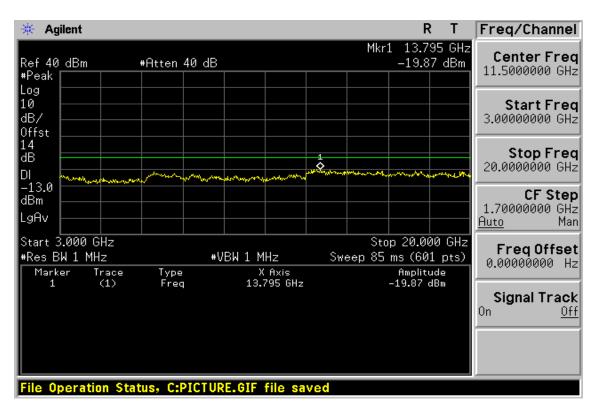
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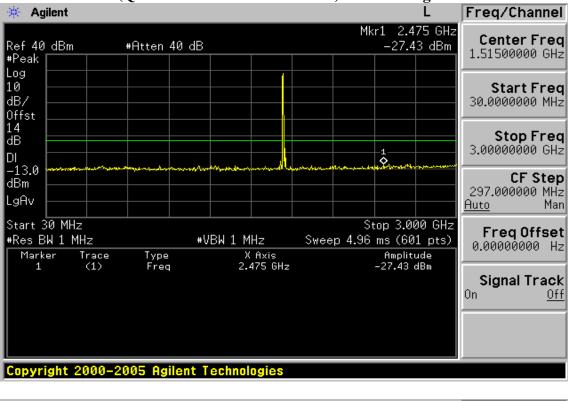


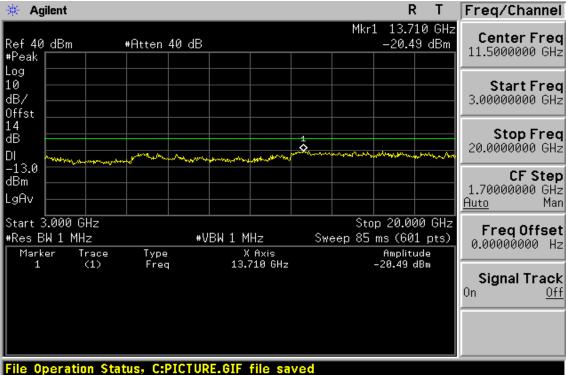


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Out of Band emission at antenna terminals -10MHz BW LTE-Band 4

(QPSK RB Number: 1 Offset: 0)

Fundamental Frequency Operation Mode		:1715.0 MHz :TX Low	Engineer		:Marcus	
_	Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB	
	<30	S		-13.00		

<30	S		-13.00	
30-1000	S		-13.00	
3430.00	Н		-13.00	
5145.00	Н		-13.00	
6860.00	Н		-13.00	
8575.00	Н		-13.00	
10290.00	Н		-13.00	
12005.00	Н		-13.00	
13720.00	Н		-13.00	
14163.00	S	-20.55	-13.00	7.55
15435.00	Н		-13.00	
17150.00	Н		-13.00	

"H": denotes Harmonic Frequency. "S": denotes Spurious Frequency. Note : "---": denotes Noise Floor.

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Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 428 of 774

Fundamental Frequency Operation Mode		:1732.5 MHz :TX Mid	Engineer		:Marcus	
	Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB	
	<30	S		-13.00		
	30-1000	S		-13.00		
	3465.00	Н		-13.00		
	5197.50	Н		-13.00		
	6930.00	Н		-13.00		
	8662.50	Н		-13.00		
	10395.00	Н		-13.00		
	12127.50	Н		-13.00		
	13795.00	S	-19.87	-13.00	6.87	
	13860.00	Н		-13.00		
	15592.50	Н		-13.00		
	17325.00	Н		-13.00		

"H": denotes Harmonic Frequency. "S": denotes Spurious Frequency. Note : "---": denotes Noise Floor.

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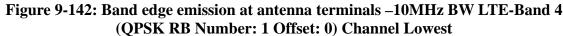


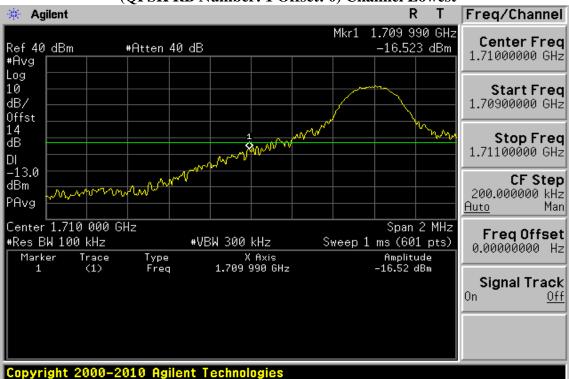
Fundamental Frequency Operation Mode		:1750.0MHz Engineer :TX High		neer	:Marcus	
	Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB	
	<30	S		-13.00		
	30-1000	S		-13.00		
	3500.00	Н		-13.00		
	5250.00	Н		-13.00		
	7000.00	Н		-13.00		
	8750.00	Н		-13.00		
	10500.00	Н		-13.00		
	12250.00	Н		-13.00		
	13710.00	S	-20.49	-13.00	7.49	
	14000.00	Н		-13.00		
	15750.00	Н		-13.00		
	17500.00	Н		-13.00		

"H": denotes Harmonic Frequency. "S": denotes Spurious Frequency. Note : "": denotes Spurious Freque

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Band edge emission at antenna terminals -10MHz BW LTE-Band 4

(QPSK RB Number: 1 Offset: 0) (QPSK RB Number: 1 Offset: 49) Test Mode 10MHz BW LTE-Band 4 Engineer :Marcus Safe Freq. Reading Limit Margin dBm dBm MHz dR

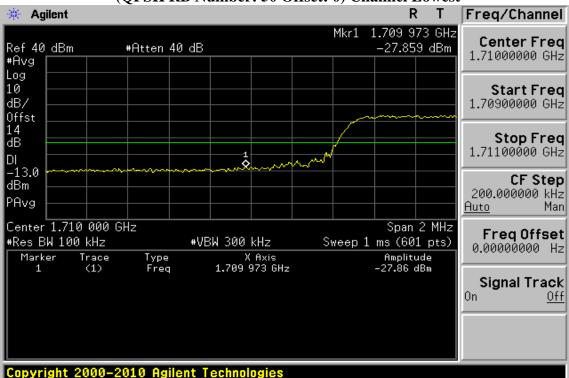
			UD
1709.990	-16.52	-13.00	3.52
1755.010	-15.96	-13.00	2.96

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Band edge emission at antenna terminals -10MHz BW LTE-Band 4

(QPSK RB Number: 50 Offset: 0)

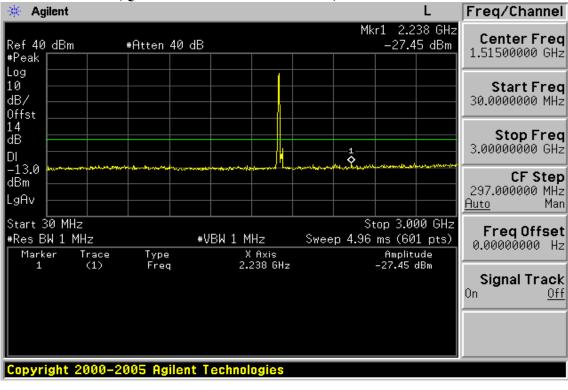
Test Mode	10MHz BW LTE-Band 4		Engineer		:Marcus	
	Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB		
	1709.973 1755.027	-27.86 -28.22	-13.00 -13.00	14.86 15.22		

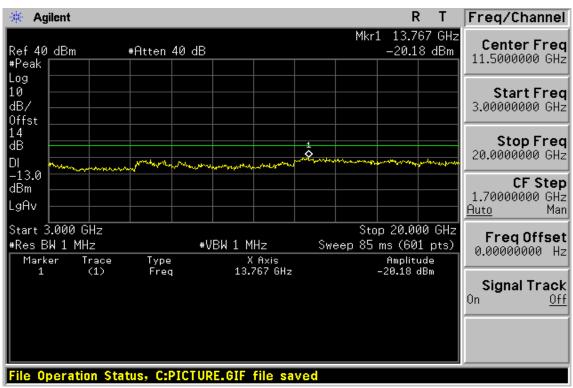
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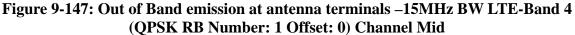


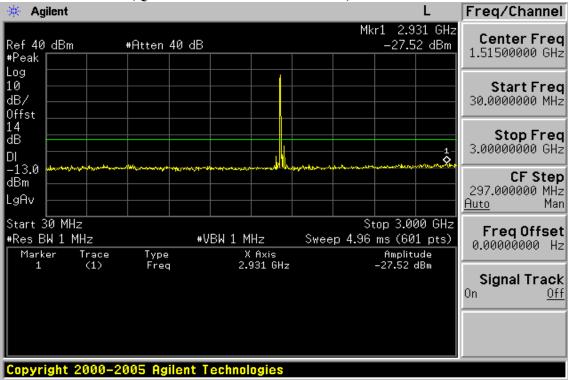


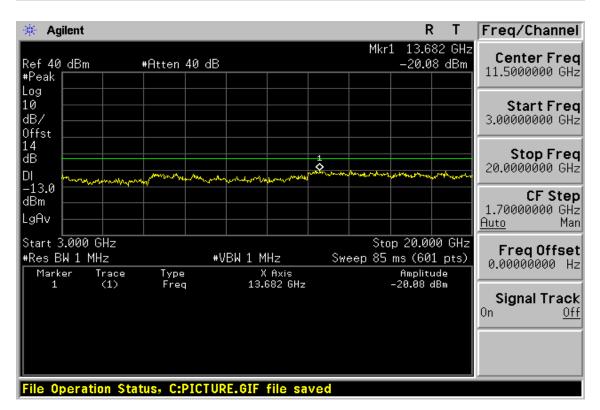
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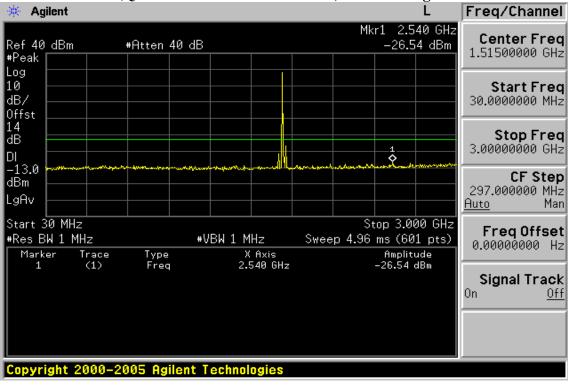


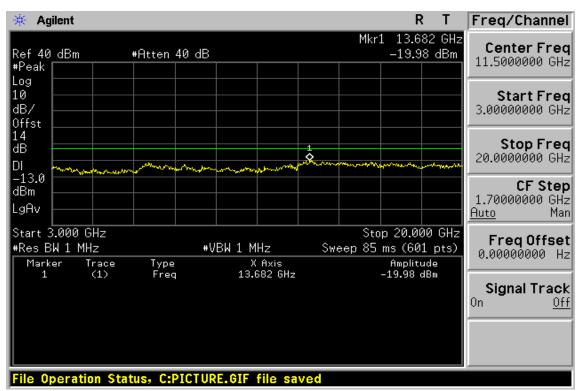


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Out of Band emission at antenna terminals -15MHz BW LTE-Band 4

(OPSK RB Number: 1 Offset: 0)

Fundamental Frequency Operation Mode	:1717.5 MHz :TX Low	Engineer		:Marcus
Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB

_	(IVIIIZ)	1/11/L/S	abiii	(dDill	dB
-					
	<30	S		-13.00	
	30-1000	S		-13.00	
	3435.00	Н		-13.00	
	5152.50	Н		-13.00	
	6870.00	Н		-13.00	
	8587.50	Н		-13.00	
	10305.00	Н		-13.00	
	12022.50	Н		-13.00	
	13740.00	Н		-13.00	
	13767.00	S	-20.18	-13.00	7.18
	15457.50	Н		-13.00	
	17175.00	Н		-13.00	

"H": denotes Harmonic Frequency. "S": denotes Spurious Frequency. Note : "---": denotes Noise Floor.

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Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 438 of 774

Fundamental Frequency Operation Mode		:1732.5 MHz Engineer :TX Mid		eer	:Marcus	
	Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB	
	<30	S		-13.00		
	30-1000	S		-13.00		
	3465.00	Н		-13.00		
	5197.50	Н		-13.00		
	6930.00	Н		-13.00		
	8662.50	Н		-13.00		
	10395.00	Н		-13.00		
	12127.50	Н		-13.00		
	13682.00	S	-20.08	-13.00	7.08	
	13860.00	Н		-13.00		
	15592.50	Н		-13.00		
	17325.00	Н		-13.00		

"H": denotes Harmonic Frequency. "S": denotes Spurious Frequency. Note : "---": denotes Noise Floor.

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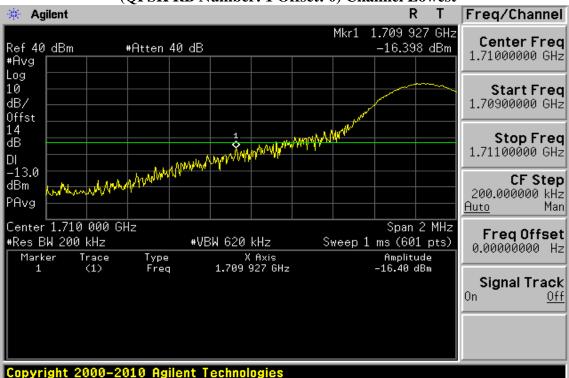
Fundamental Frequency Operation Mode		:1747.5MHz Enginee :TX High		neer	:Marcus
	Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
	<30	S		-13.00	
	30-1000	S		-13.00	
	3495.00	Н		-13.00	
	5242.50	Н		-13.00	
	6990.00	Н		-13.00	
	8737.50	Н		-13.00	
	10485.00	Н		-13.00	
	12232.50	Н		-13.00	
	13682.00	S	-19.98	-13.00	6.98
	13980.00	Н		-13.00	
	15727.50	Н		-13.00	
	17475.00	Н		-13.00	

"H": denotes Harmonic Frequency. "S": denotes Spurious Frequency. Note : "": denotes Spurious Freque

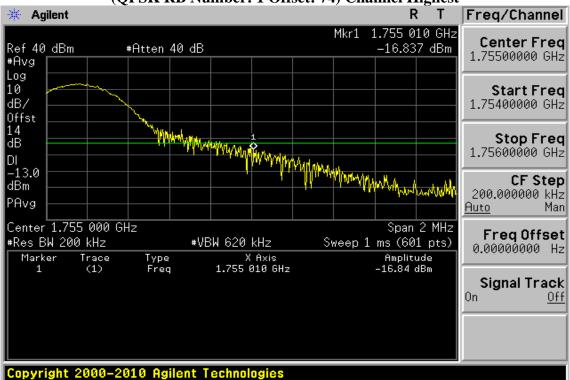
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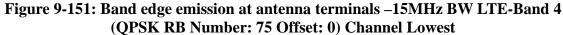
Band edge emission at antenna terminals -15MHz BW LTE-Band 4

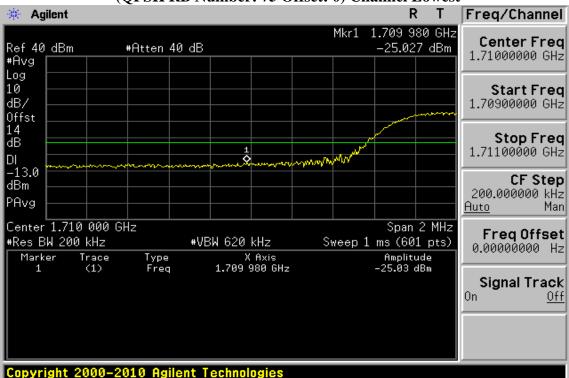
(QPSK RB Number: 1 Offset: 0) (QPSK RB Number: 1 Offset: 74) Test Mode 15MHz BW LTE-Band 4 Engineer :Marcus Safe **.** . . 1.

Freq.	Reading	Limit	Margin
MHz	dBm	dBm	dB
1709.927	-16.40	-13.00	3.40
1755.010	-16.84	-13.00	3.84

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Band edge emission at antenna terminals -15MHz BW LTE-Band 4

(QPSK RB Number: 75 Offset: 0)

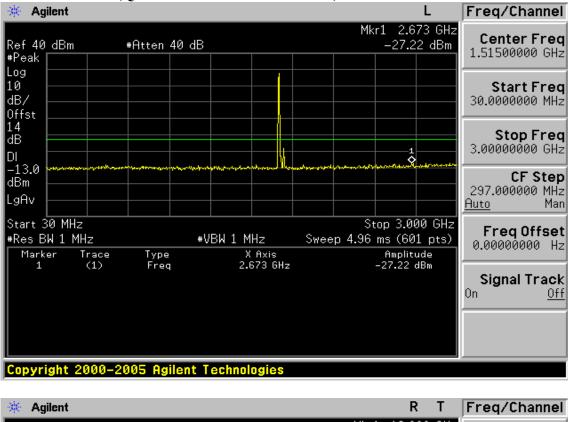
Test Mode	15MHz BV	15MHz BW LTE-Band 4		Engineer	
	Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB	
	1709.980 1755.027	-25.03 -25.97	-13.00 -13.00	12.03 12.97	

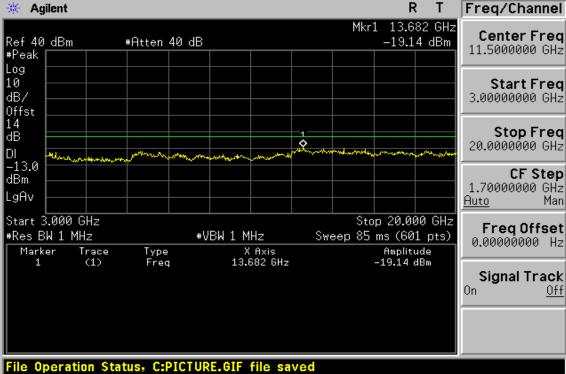
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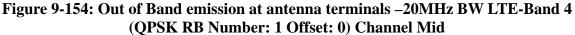


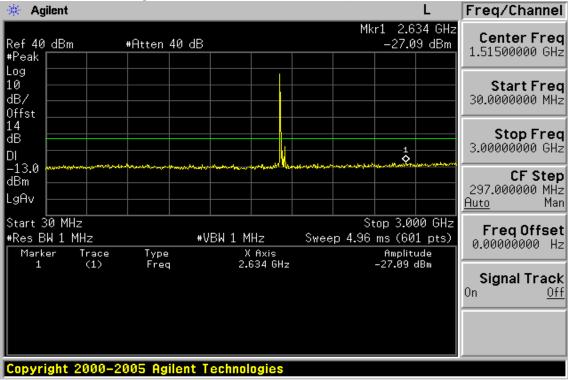


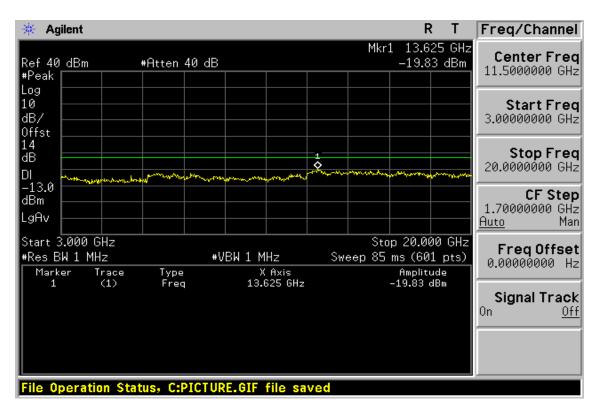
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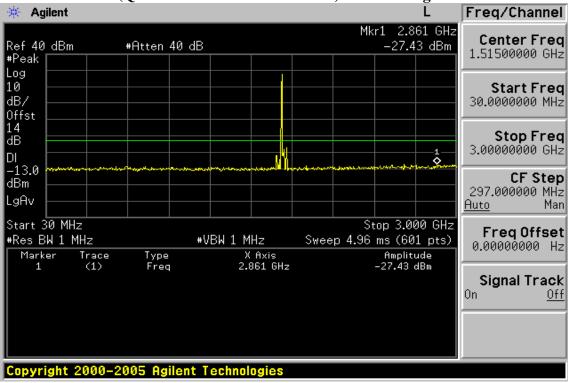


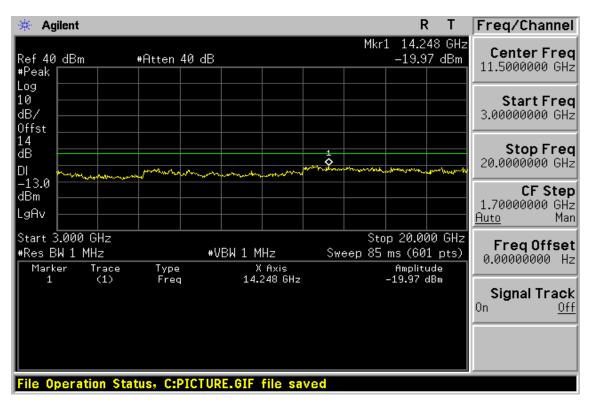


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6.14

Out of Band emission at antenna terminals -20MHz BW LTE-Band 4

(OPSK RB Number: 1 Offset: 0)

13682.00 13760.00

15480.00

17200.00

		,			
Fundamental F	Frequency	:1720.0 MHz	Engin	eer	:Marcus
Operation Mode		:TX Low			
	Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin
-	(11112)		ubm	ubm	dB
	<30	S		-13.00	
	30-1000	S		-13.00	
	3440.00	Н		-13.00	
	5160.00	Н		-13.00	
	6880.00	Н		-13.00	
	8600.00	Н		-13.00	
	10320.00	Н		-13.00	
	12040.00	Н		-13.00	

-19.14

-13.00

-13.00

-13.00

-13.00

"H": denotes Harmonic Frequency. "S": denotes Spurious Frequency. Note : "---": denotes Noise Floor.

S

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Η

Η

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Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 448 of 774

Fundamental Frequency Operation Mode		:1732.5 MHz :TX Mid	Engin	:Marcus	
	Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
	<30	S		-13.00	
	30-1000	S		-13.00	
	3465.00	Н		-13.00	
	5197.50	Н		-13.00	
	6930.00	Н		-13.00	
	8662.50	Н		-13.00	
	10395.00	Н		-13.00	
	12127.50	Н		-13.00	
	13625.00	S	-19.83	-13.00	6.83
	13860.00	Н		-13.00	
	15592.50	Н		-13.00	
	17325.00	Н		-13.00	

"H": denotes Harmonic Frequency. "S": denotes Spurious Frequency. Note : "---": denotes Noise Floor.

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Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 449 of 774

Fundamental Frequency Operation Mode		:1745MHz :TX High	Engin	Engineer	
	Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
	<30	S		-13.00	
	30-1000	S		-13.00	
	3490.00	Н		-13.00	
	5235.00	Н		-13.00	
	6980.00	Н		-13.00	
	8725.00	Н		-13.00	
	10470.00	Н		-13.00	
	12215.00	Н		-13.00	
	13960.00	Н		-13.00	
	14248.00	S	-19.97	-13.00	6.97
	15705.00	Н		-13.00	
	17450.00	Н		-13.00	

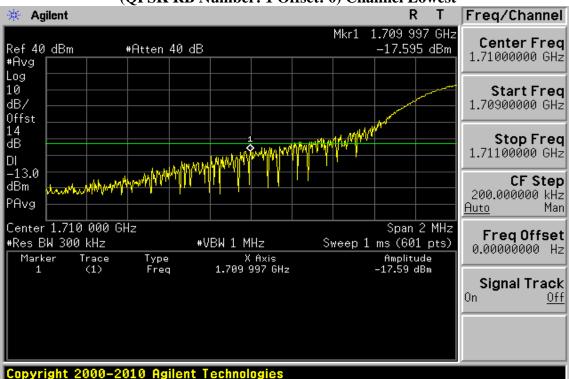
"H": denotes Harmonic Frequency. "S": denotes Spurious Frequency. Note : "": denotes Spurious Freque

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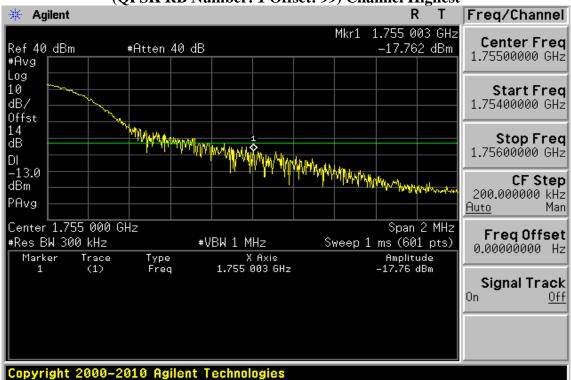
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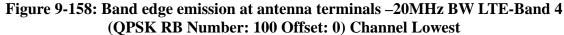
Band edge emission at antenna terminals -20MHz BW LTE-Band 4

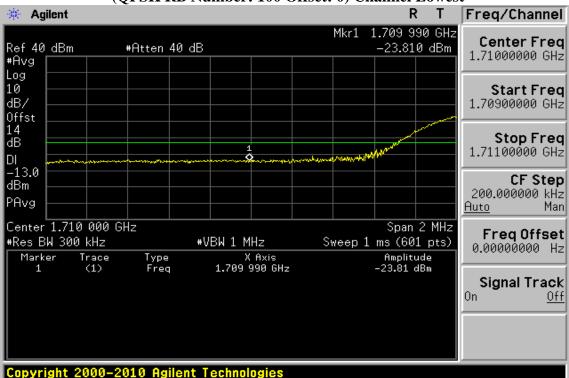
(QPSK RB Number: 1 Offset: 0) (QPSK RB Number: 1 Offset: 99) Test Mod

ode	20MHz BW LTE-Band 4		Engineer		:Marcus	
	Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB		
	1709.997	-17.59	-13.00	4.59		
	1755.003	-17.76	-13.00	4.76		

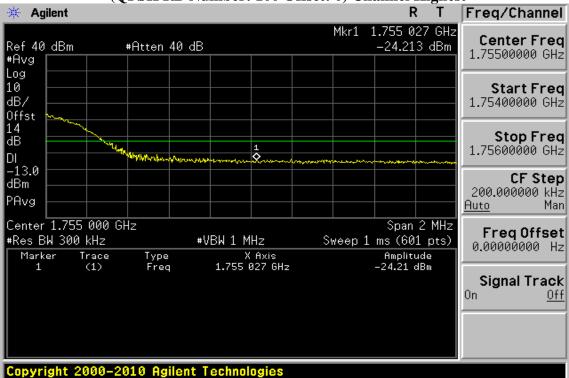
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Band edge emission at antenna terminals -20MHz BW LTE-Band 4

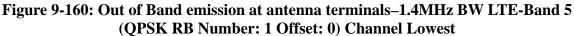
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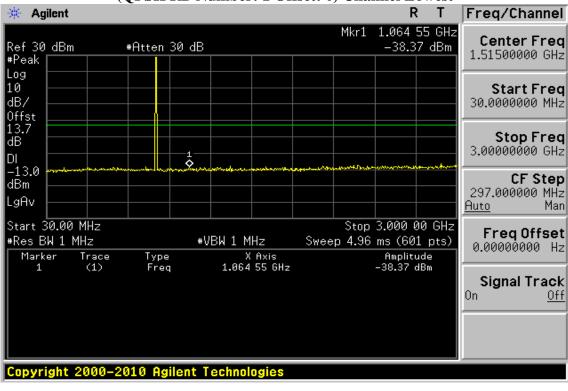
Test Mode	20MHz BW LTE-Band 4		Engineer		:Marcus
	Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB	
	1709.990 1755.027	-23.81 -24.21	-13.00 -13.00	10.81 11.21	

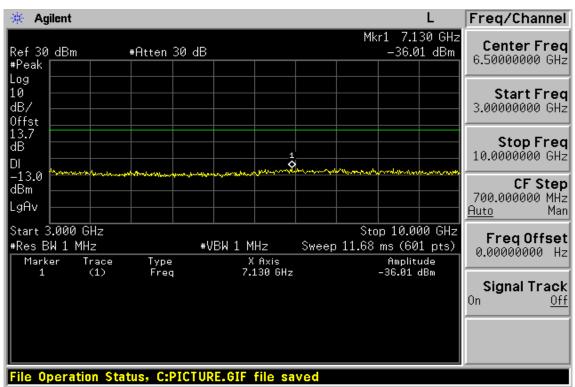
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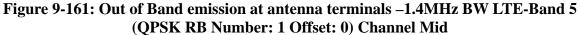


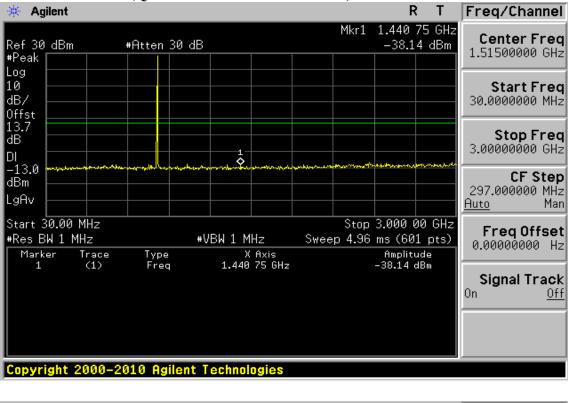


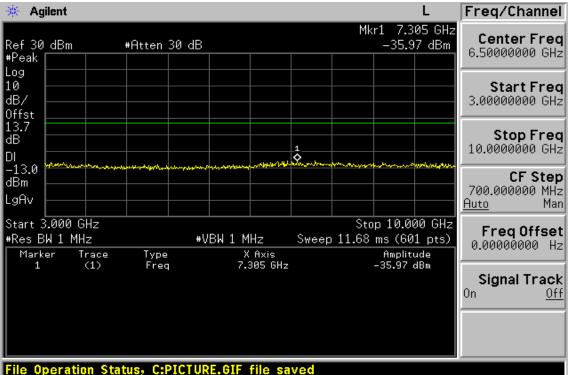
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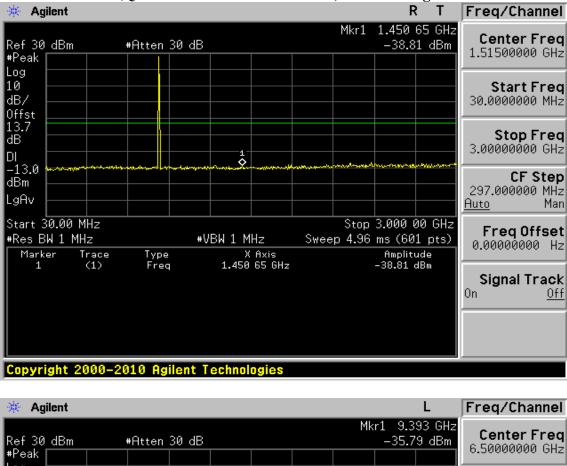


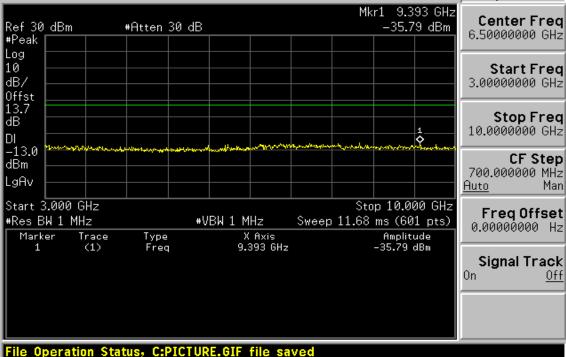


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Out of Band emission at antenna terminals -1.4MHz BW LTE-Band 5

(OPSK RB Number: 1 Offset: 0)

Fundamental Frequency Operation Mode	:824.7 MHz :TX Low	Engineer	r	:Nick
Freq	Note	Reading	Limit	Safe

_	(MHz)	F/H/E/S	dBm	dBm	Margin dB
	<30	S		-13.00	
	30-1000	S		-13.00	
	1649.40	Н		-13.00	
	2474.10	Н		-13.00	
	3298.80	Н		-13.00	
	4123.50	Н		-13.00	
	4948.20	Н		-13.00	
	5772.90	Н		-13.00	
	6597.60	Н		-13.00	
	7130.00	S	-36.01	-13.00	23.01
	7422.30	Н		-13.00	
	8247.00	Н		-13.00	

"H": denotes Harmonic Frequency. "S": denotes Spurious Frequency. Note : "---": denotes Noise Floor.

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Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 458 of 774

Fundamental Frequency Operation Mode		:836.5 MHz Engineer :TX Mid		neer	:Nick	
	Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB	
	-20	S		-13.00		
	<30 30-1000	S		-13.00		
	1673.00	Н		-13.00		
	2509.50	Н		-13.00		
	3346.00	Н		-13.00		
	4182.50	Н		-13.00		
	5019.00	Н		-13.00		
	5855.50	Н		-13.00		
	6692.00	Н		-13.00		
	7305.00	S	-35.97	-13.00	22.97	
	7528.50	Н		-13.00		
	8365.00	Н		-13.00		

"H": denotes Harmonic Frequency. "S": denotes Spurious Frequency. Note : "---": denotes Noise Floor.

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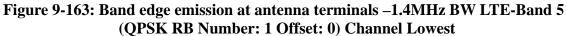
Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 459 of 774

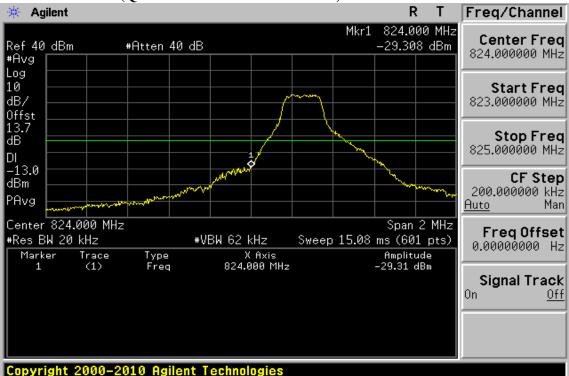
Fundamental Operation Mo		:848.3 MHz :TX High	Engin	eer	:Nick
	Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
	<30	S		-13.00	
	<50 30-1000	S		-13.00	
	1696.60	Н		-13.00	
	2544.90	Н		-13.00	
	3393.20	Н		-13.00	
	4241.50	Н		-13.00	
	5089.80	Н		-13.00	
	5938.10	Н		-13.00	
	6786.40	Н		-13.00	
	7634.70	Н		-13.00	
	8483.00	Н		-13.00	
	9393.00	S	-35.79	-13.00	22.79

"H": denotes Harmonic Frequency. "S": denotes Spurious Frequency. Note : "": denotes Spurious Freque

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Band edge emission at antenna terminals -1.4MHz BW LTE-Band 5

(QPSK RB Number: 1 Offset: 0) (QPSK RB Number: 1 Offset: 5)

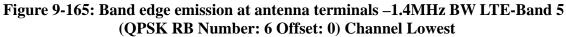
Test Mode 1.4MHz BW LTE-Band 5 Engineer :Nick Sofo

Freq. MHz	Reading dBm	Limit dBm	Sare Margin <u>dB</u>
824.000	-29.31	-13.00	16.31
849.000	-24.51	-13.00	11.51

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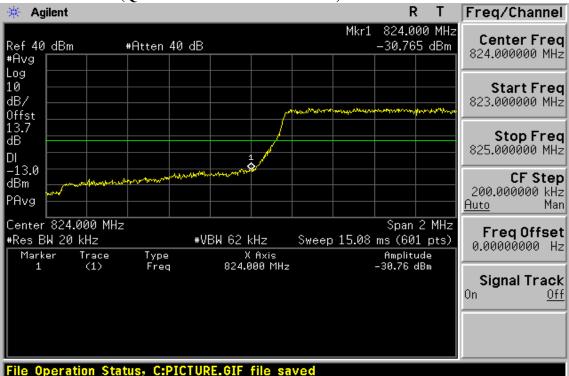
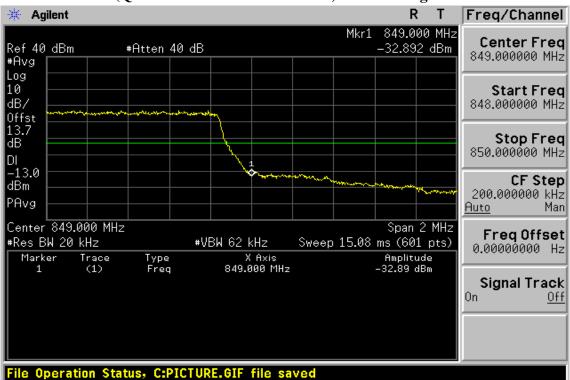


Figure 9-166: Band edge emission at antenna terminals –1.4MHz BW LTE-Band 5 (QPSK RB Number: 6 Offset: 0) Channel Highest



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Band edge emission at antenna terminals -1.4MHz BW LTE-Band 5

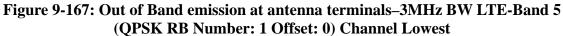
(QPSK RB Number: 6 Offset: 0)

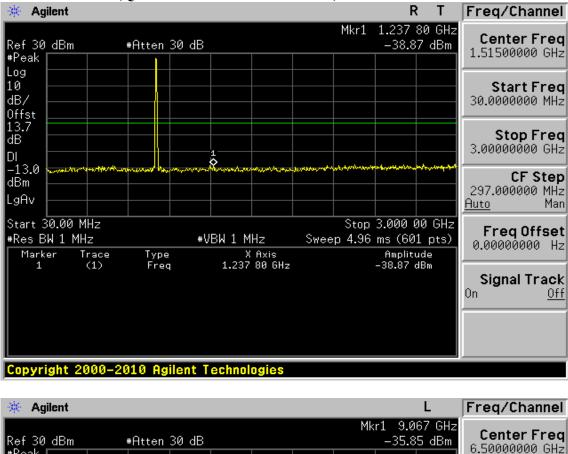
Test Mode	1.4MHz B	1.4MHz BW LTE-Band 5 H		Engineer		
	Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB		
	824.000 849.000	-30.76 -32.89	-13.00 -13.00	17.76 19.89		

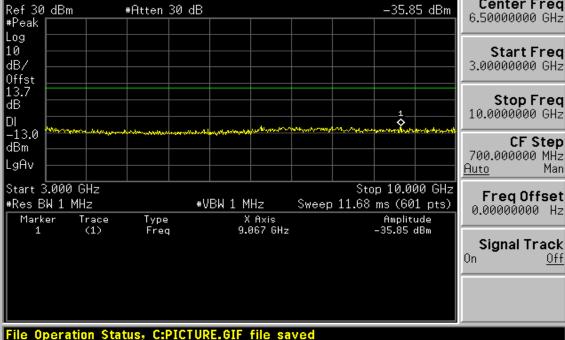
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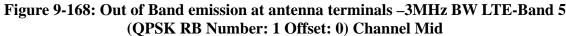


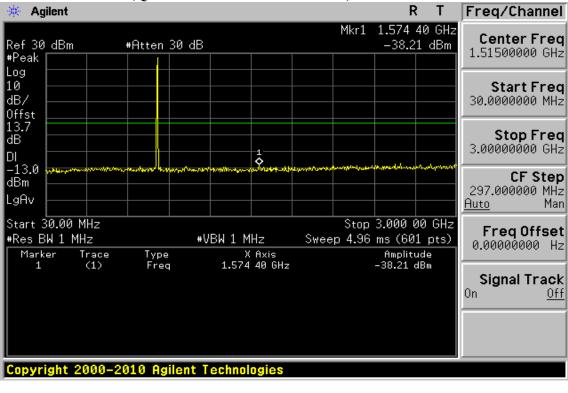


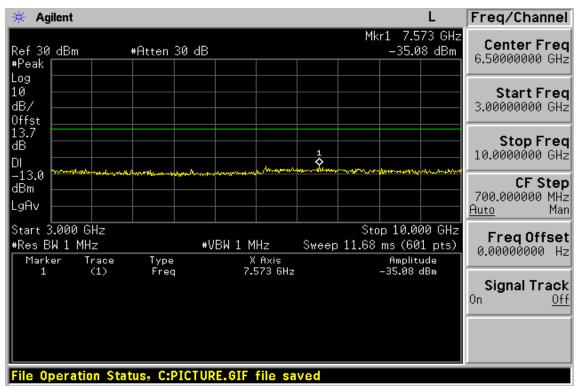
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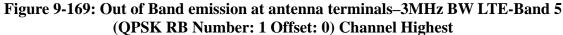


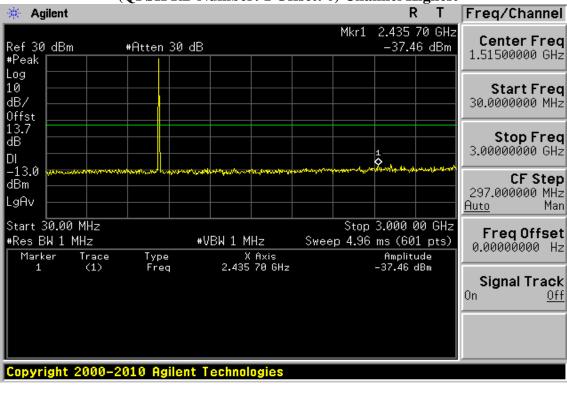


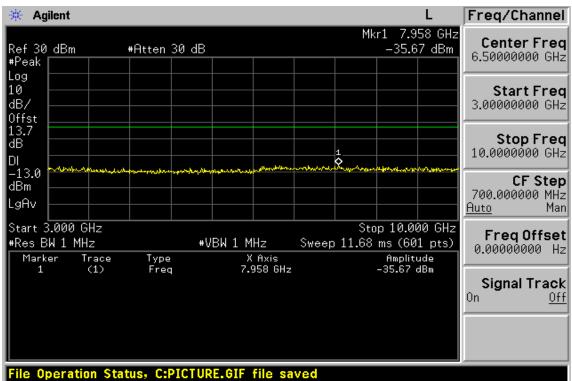


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Out of Band emission at antenna terminals -3MHz BW LTE-Band 5

(OPSK RB Number: 1 Offset: 0)

Fundamental Frequency Operation Mode	:825.5 MHz :TX Low	Enginee	er	:Nick
Frea.	Note	Reading	Limit	Safe

(MHz)	F/H/E/S	dBm	dBm	Margin dB
<30	S		-13.00	
30-1000	S		-13.00	
1651.00	Н		-13.00	
2476.50	Н		-13.00	
3302.00	Н		-13.00	
4127.50	Н		-13.00	
4953.00	Н		-13.00	
5778.50	Н		-13.00	
6604.00	Н		-13.00	
7429.50	Н		-13.00	
8255.00	Н		-13.00	
9067.00	S	-35.85	-13.00	22.85

"H": denotes Harmonic Frequency. "S": denotes Spurious Frequency. Note : "---": denotes Noise Floor.

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Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 468 of 774

Fundamental Dependent		:836.5 MHz :TX Mid	Engin	leer	:Nick
	Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
	20	S		12.00	
	<30 30-1000	S S		-13.00 -13.00	
	1673.00	Н		-13.00	
	2509.50	Н		-13.00	
	3346.00	Н		-13.00	
	4182.50	Н		-13.00	
	5019.00	Н		-13.00	
	5855.50	Н		-13.00	
	6692.00	Н		-13.00	
	7528.50	Н		-13.00	
	7573.00	S	-35.08	-13.00	22.08
	8365.00	Н		-13.00	

"H": denotes Harmonic Frequency. "S": denotes Spurious Frequency. Note : "---": denotes Noise Floor.

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Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 469 of 774

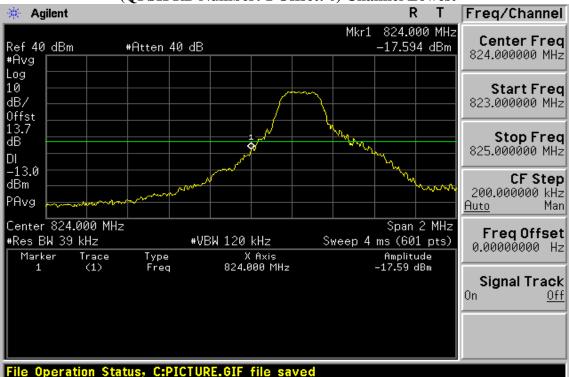
Fundamental Frequency Operation Mode		:825.3 MHz Engineer :TX High		neer	:Nick	
	Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB	
	-20	S		12.00		
	<30 30-1000	S S		-13.00 -13.00		
	1650.60	Н		-13.00		
	2475.90	Н		-13.00		
	3301.20	Н		-13.00		
	4126.50	Н		-13.00		
	4951.80	Н		-13.00		
	5777.10	Н		-13.00		
	6602.40	Н		-13.00		
	7427.70	Н		-13.00		
	7958.00	S	-35.67	-13.00	22.67	
	8253.00	Н		-13.00		

"H": denotes Harmonic Frequency. "S": denotes Spurious Frequency. Note : "": denotes Spurious Freque

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Band edge emission at antenna terminals -3MHz BW LTE-Band 5

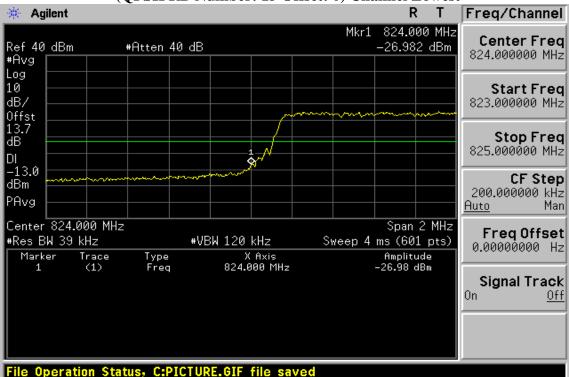
(QPSK RB Number: 1 Offset: 0) (QPSK RB Number: 1 Offset: 14) Test Mode 3MHz BW LTE-Band 5 Engineer :Nick Safe **F**..... Deading I imit

req. IHz	dBm	dBm	Margin dB
4.000	-17.59	-13.00	4.59
9.000	-17.70	-13.00	4.70

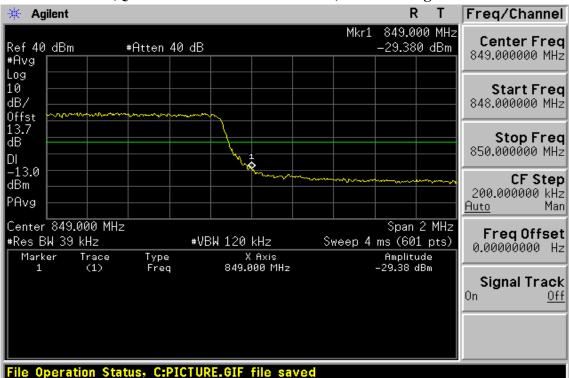
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Band edge emission at antenna terminals -3MHz BW LTE-Band 5

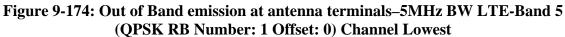
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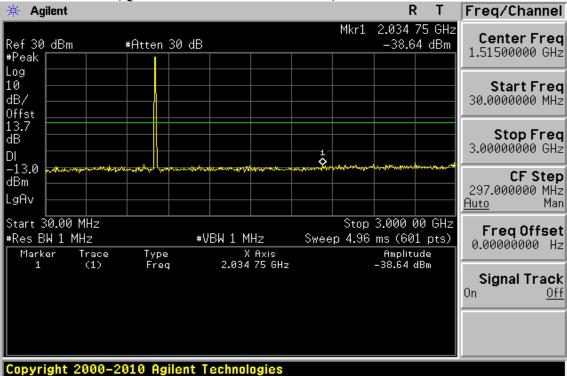
Test Mode	3MHz BW	3MHz BW LTE-Band 5			:Nick	
	Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB	_	
	824.000 849.000	-26.98 -29.38	-13.00 -13.00	13.98 16.38		

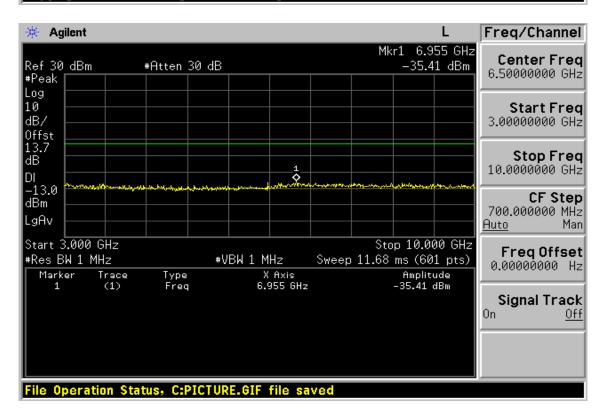
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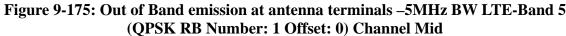


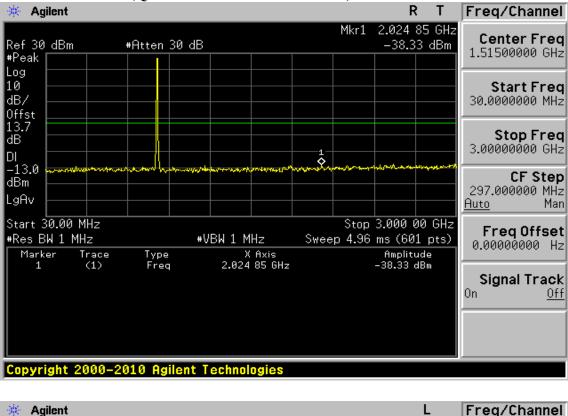


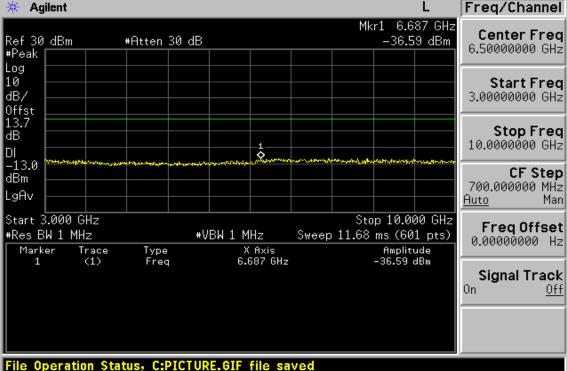


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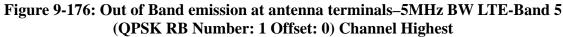


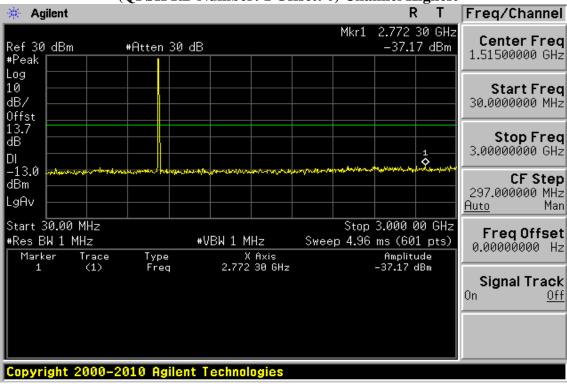


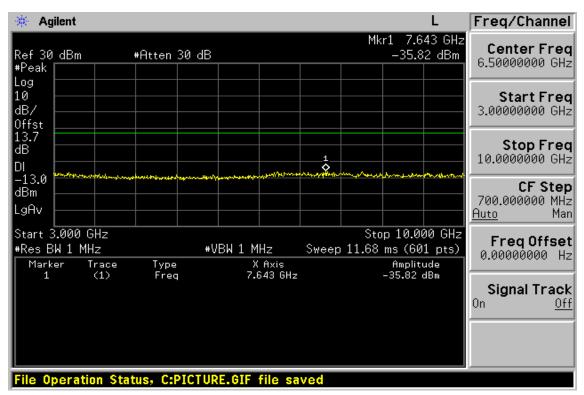


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Out of Band emission at antenna terminals -5MHz BW LTE-Band 5

(QPSK RB Number: 1 Offset: 0)

Fundamental Frequency Operation Mode	:826.5 MHz :TX Low	Engin	Engineer	
Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB

<30	S		-13.00	
30-1000	S		-13.00	
1653.00	Н		-13.00	
2479.50	Н		-13.00	
3306.00	Н		-13.00	
4132.50	Н		-13.00	
4959.00	Н		-13.00	
5785.50	Н		-13.00	
6612.00	Н		-13.00	
6955.00	S	-35.41	-13.00	22.41
7438.50	Н		-13.00	
8265.00	Н		-13.00	

"H": denotes Harmonic Frequency. "S": denotes Spurious Frequency. Note : "---": denotes Noise Floor.

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Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 478 of 774

Fundamental Frequency Operation Mode		:836.5 MHz Engineer :TX Mid		neer	:Nick
	Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
	<30	S		-13.00	
	30-1000	S		-13.00	
	1673.00	Н		-13.00	
	2509.50	Н		-13.00	
	3346.00	Н		-13.00	
	4182.50	Н		-13.00	
	5019.00	Н		-13.00	
	5855.50	Н		-13.00	
	6687.00	S	-36.59	-13.00	23.59
	6692.00	Н		-13.00	
	7528.50	Н		-13.00	
	8365.00	Н		-13.00	

"H": denotes Harmonic Frequency. "S": denotes Spurious Frequency. Note : "---": denotes Noise Floor.

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Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 479 of 774

Fundamental Frequency Operation Mode		:846.5 MHz Engineer :TX High		neer	:Nick	
	Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB	
		q		12.00		
	<30 30-1000	S S		-13.00		
				-13.00		
	1693.00	Н		-13.00		
	2539.50	Н		-13.00		
	3386.00	Н		-13.00		
	4232.50	Н		-13.00		
	5079.00	Н		-13.00		
	5925.50	Н		-13.00		
	6772.00	Н		-13.00		
	7618.50	Н		-13.00		
	7643.00	S	-35.82	-13.00	22.82	
	8465.00	Н		-13.00		

"H": denotes Harmonic Frequency. "S": denotes Spurious Frequency. Note : "": denotes Spurious Freque

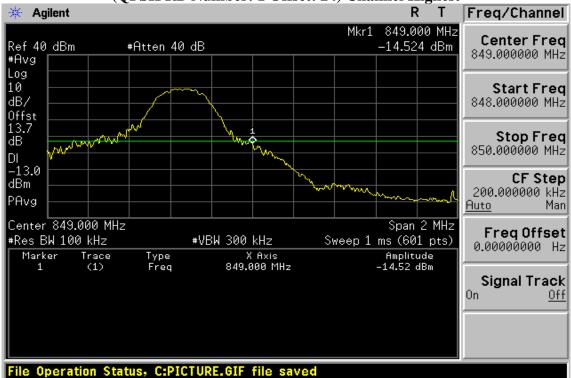
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Band edge emission at antenna terminals -5MHz BW LTE-Band 5

(QPSK RB Number: 1 Offset: 0) (QPSK RB Number: 1 Offset: 24) Test Mode 5MHz BW LTE-Band 5 Engineer

:Nick

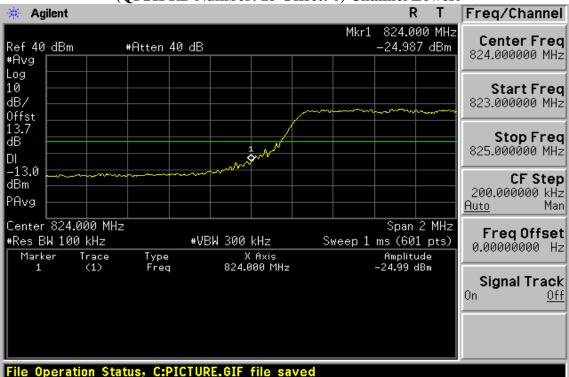
Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
824.000	-17.18	-13.00	4.18
849.000	-14.52	-13.00	1.52

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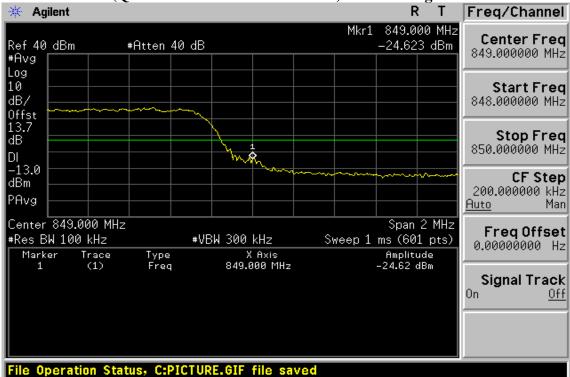
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Band edge emission at antenna terminals -5MHz BW LTE-Band 5

(QPSK RB Number: 25 Offset: 0)

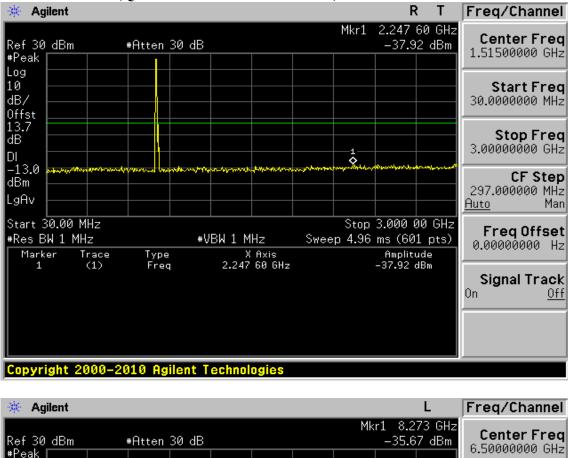
Test Mode	5MHz BW	5MHz BW LTE-Band 5			:Nick
	Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB	
	824.000 849.000	-24.99 -24.62	-13.00 -13.00	11.99 11.62	

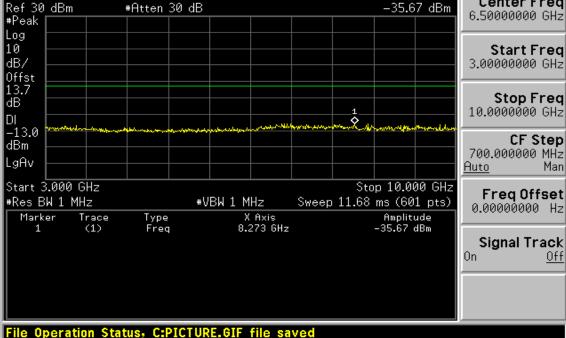
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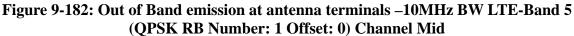


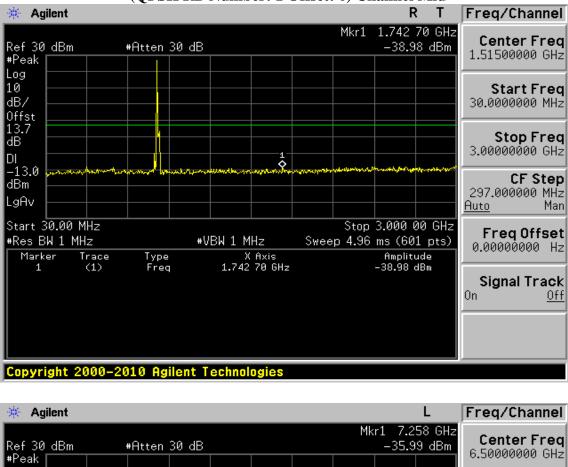


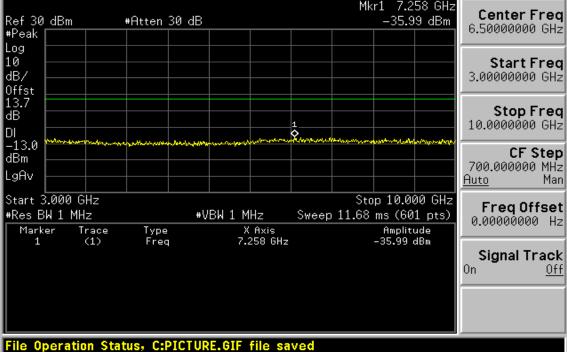
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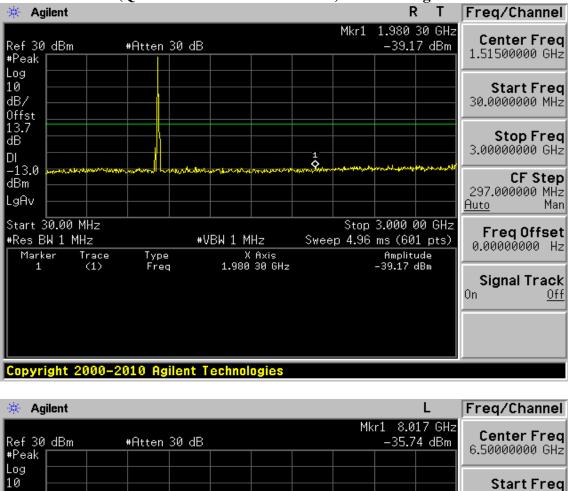


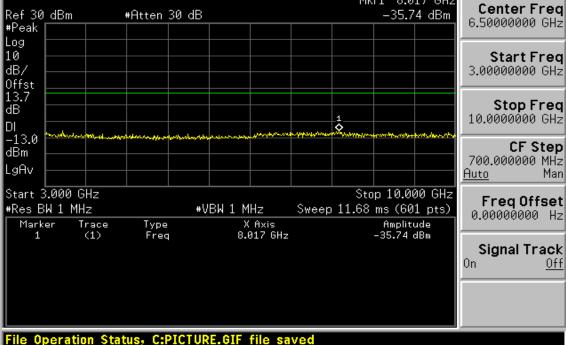
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Out of Band emission at antenna terminals -10MHz BW LTE-Band 5

(OPSK RB Number: 1 Offset: 0)

Fundamental Frequency Operation Mode	:829.0 MHz :TX Low	Engine	Engineer	
Freq	Note	Reading	Limit	Safe

Freq. (MHz)	Note F/H/E/S	dBm	dBm	Margin dB
<30	S		-13.00	
30-1000	S		-13.00	
1658.00	Н		-13.00	
2487.00	Н		-13.00	
3316.00	Н		-13.00	
4145.00	Н		-13.00	
4974.00	Н		-13.00	
5803.00	Н		-13.00	
6632.00	Н		-13.00	
7461.00	Н		-13.00	
8273.00	S	-35.67	-13.00	22.67
8290.00	Н		-13.00	

"H": denotes Harmonic Frequency. "S": denotes Spurious Frequency. Note : "---": denotes Noise Floor.

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Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 488 of 774

Fundamental Frequency Operation Mode		:836.5 MHz Engineer :TX Mid		eer	:Nick
	Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
	<30	S		-13.00	
	30-1000	S		-13.00	
	1673.00	Н		-13.00	
	2509.50	Н		-13.00	
	3346.00	Н		-13.00	
	4182.50	Н		-13.00	
	5019.00	Н		-13.00	
	5855.50	Н		-13.00	
	6692.00	Н		-13.00	
	7258.00	S	-35.99	-13.00	22.99
	7528.50	Н		-13.00	
	8365.00	Н		-13.00	

"H": denotes Harmonic Frequency. "S": denotes Spurious Frequency. Note : "---": denotes Noise Floor.

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Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 489 of 774

Fundamental Frequency Operation Mode		:844.0 MHz Engineer :TX High		eer	:Nick	
	Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB	
	20	C		12.00		
	<30 30-1000	S S		-13.00 -13.00		
	1688.00	Н		-13.00		
	2532.00	Н		-13.00		
	3376.00	Н		-13.00		
	4220.00	Н		-13.00		
	5064.00	Н		-13.00		
	5908.00	Н		-13.00		
	6752.00	Н		-13.00		
	7596.00	Н		-13.00		
	8017.00	S	-35.74	-13.00	22.74	
	8440.00	Н		-13.00		

"H": denotes Harmonic Frequency. "S": denotes Spurious Frequency. Note : "": denotes Spurious Freque

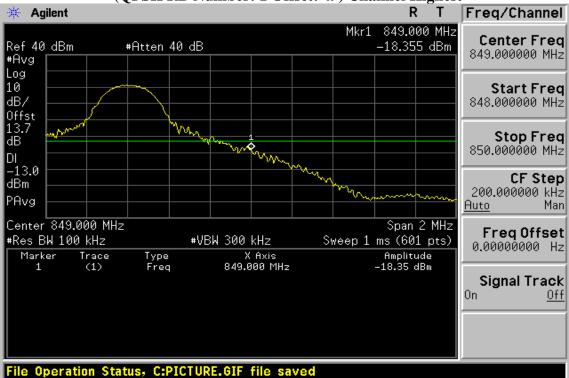
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Band edge emission at antenna terminals -10MHz BW LTE-Band 5

(QPSK RB Number: 1 Offset: 0) (QPSK RB Number: 1 Offset: 49) Test Mode 10MHz BW LTE-Band 5 Engineer :Nick ~ ^

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
824.000	-21.70	-13.00	8.70
849.000	-18.35	-13.00	5.35

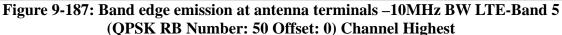
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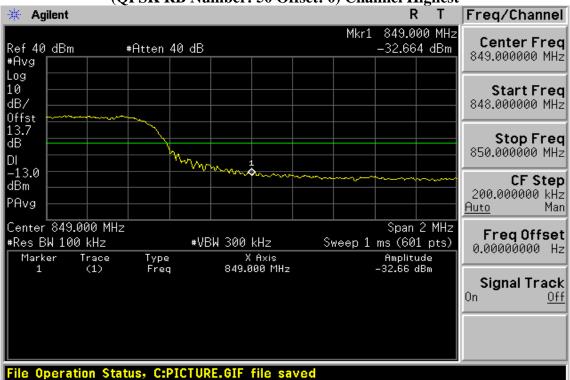
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Band edge emission at antenna terminals -10MHz BW LTE-Band 5

(QPSK RB Number: 50 Offset: 0)

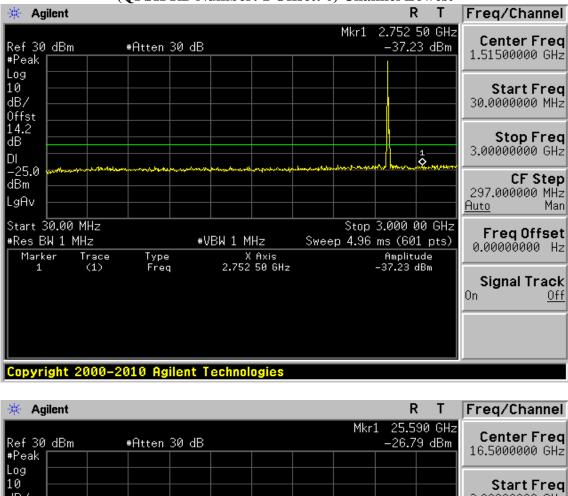
Test Mode	10MHz BW LTE-Band 5		Engineer		:Nick
	Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB	_
	824.000 849.000	-30.09 -32.66	-13.00 -13.00	17.09 19.66	

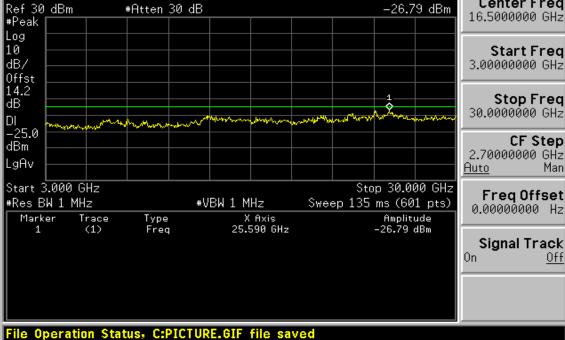
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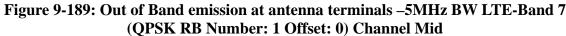


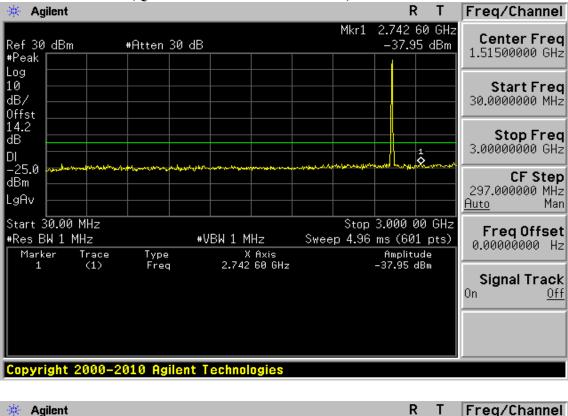


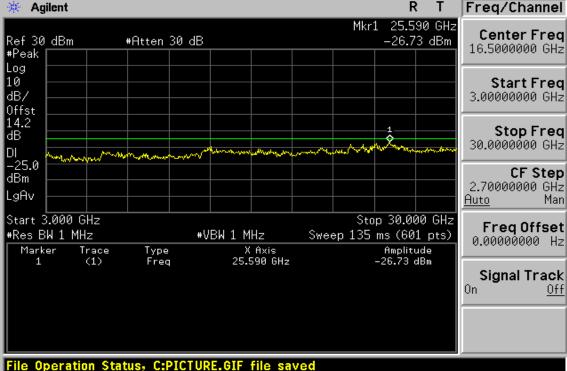
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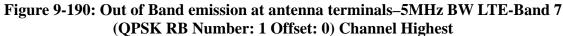




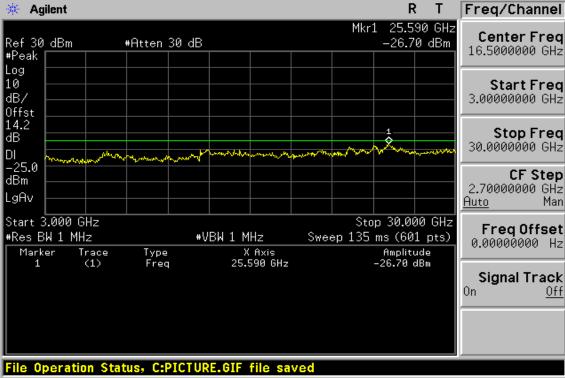
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Out of Band emission at antenna terminals -5MHz BW LTE-Band 7

(QPSK RB Number: 1 Offset: 0)

Fundamental Frequency Operation Mode		:2502.5 MHz :TX Low	Engineer		:Marcus	
_	Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB	
	<30	S		-13.00		

<30	S		-13.00	
30-1000	S		-13.00	
5005.00	Н		-13.00	
7507.50	Н		-13.00	
10010.00	Н		-13.00	
12512.50	Н		-13.00	
15015.00	Н		-13.00	
17517.50	Н		-13.00	
20020.00	Н		-13.00	
22522.50	Н		-13.00	
25025.00	Н		-13.00	
25590.00	S	-26.79	-13.00	13.79

"H": denotes Harmonic Frequency. "S": denotes Spurious Frequency. Note : "---": denotes Noise Floor.

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Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 498 of 774

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Fundamental Frequency Operation Mode		:2535 MHz Engineer :TX Mid		eer	:Marcus	
	Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB	_
	<30	S		-13.00		
	30-1000	S		-13.00		
	5070.00	Н		-13.00		
	7605.00	Н		-13.00		
	10140.00	Н		-13.00		
	12675.00	Н		-13.00		
	15210.00	Н		-13.00		
	17745.00	Н		-13.00		
	20280.00	Н		-13.00		
	22815.00	Н		-13.00		
	25350.00	Н		-13.00		
	25590.00	S	-26.73	-13.00	13.73	

"H": denotes Harmonic Frequency. "S": denotes Spurious Frequency. Note : "---": denotes Noise Floor.

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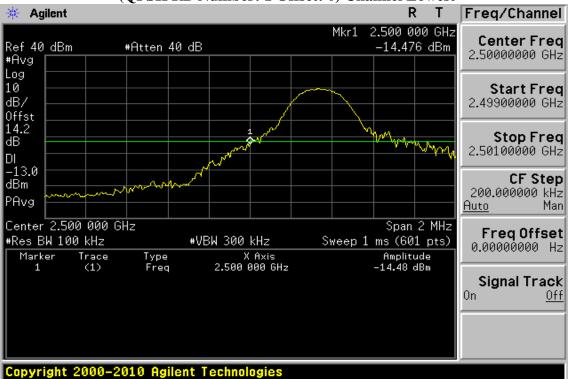
Fundamental Frequency Operation Mode		:2567.5MHz Engineer :TX High		eer	:Marcus
	Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
	<30	S		-13.00	
	30-1000	S		-13.00	
	5135.00	Н		-13.00	
	7702.50	Н		-13.00	
	10270.00	Н		-13.00	
	12837.50	Н		-13.00	
	15405.00	Н		-13.00	
	17972.50	Н		-13.00	
	20540.00	Н		-13.00	
	23107.50	Н		-13.00	
	25590.00	S	-26.70	-13.00	13.70
	25675.00	Н		-13.00	

"H": denotes Harmonic Frequency. "S": denotes Spurious Frequency. Note : "": denotes Spurious Freque

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0.76

Band edge emission at antenna terminals -5MHz BW LTE-Band 7

2570.000

(QPSK RB Number: 1 Offset: 0) (QPSK RB Number: 1 Offset: 24) Test

st Mode	5MHz BW	LTE-Band 7	Engineer	:Marcu	
	Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB	
	2500.000	-14.48	-13.00	1.48	

-13.00

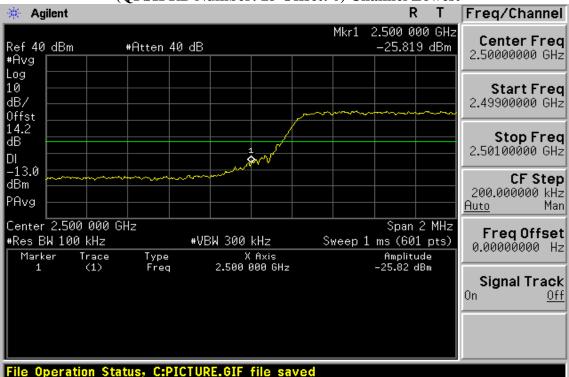
-13.76

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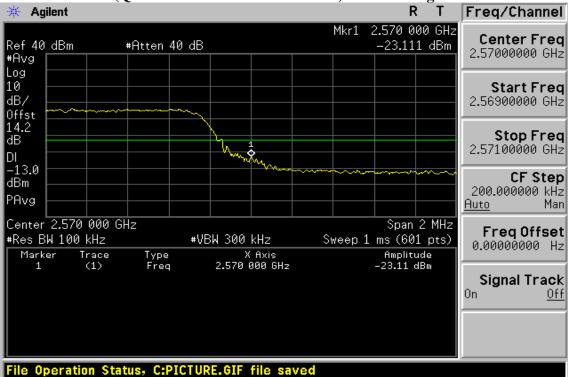
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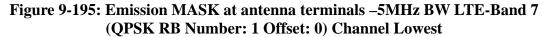
Band edge emission at antenna terminals -5MHz BW LTE-Band 7

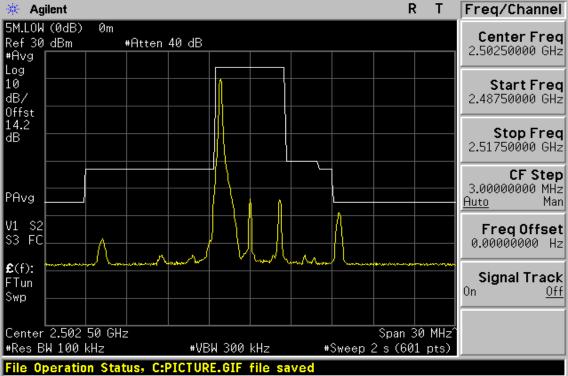
(QPSK RB Number: 25 Offset: 0)

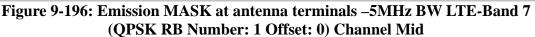
Test Mode	5MHz BW	5MHz BW LTE-Band 7		Engineer	
	Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB	_
	2500.000 2570.000	-25.82 -23.11	-13.00 -13.00	12.82 10.11	

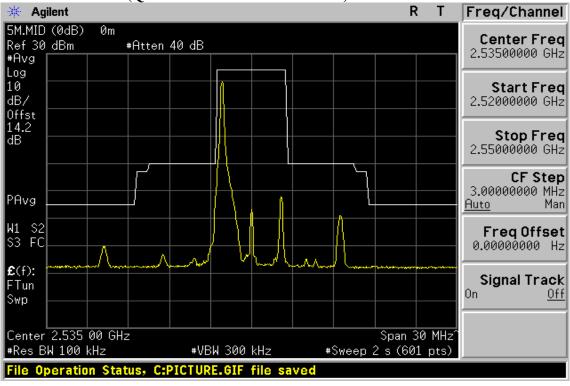
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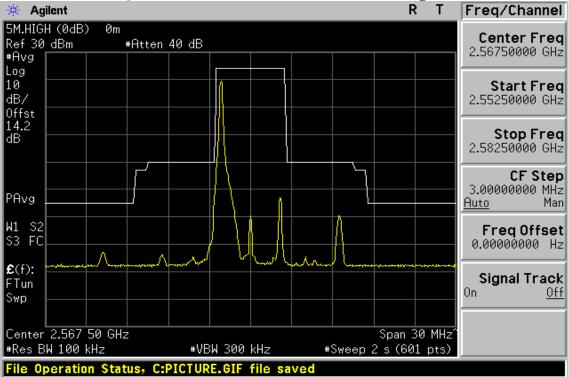




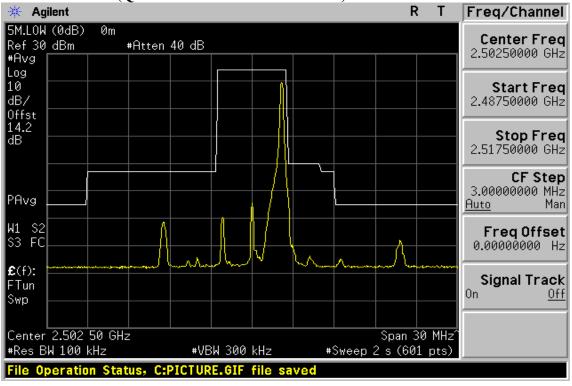




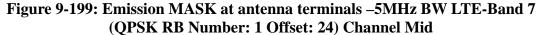


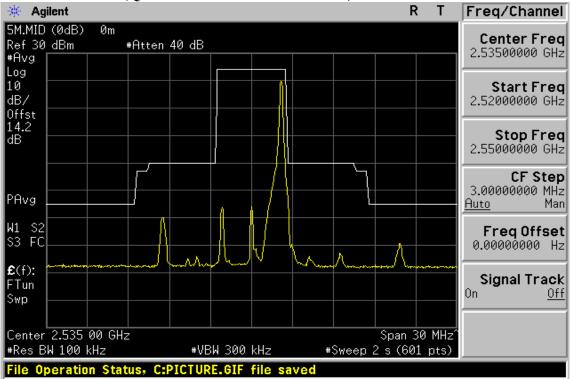




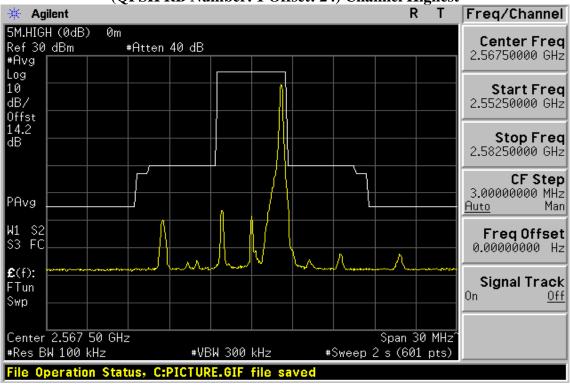




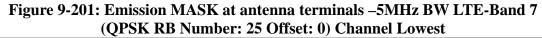


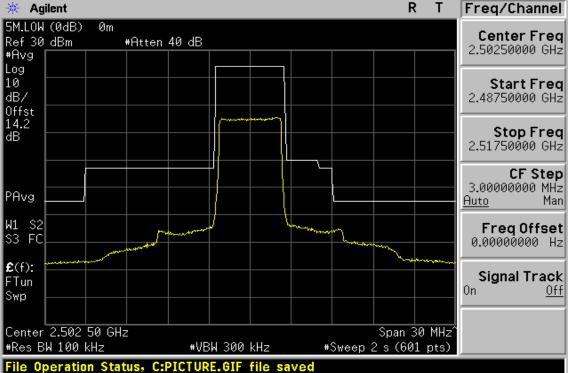


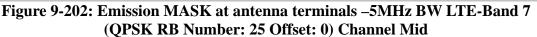


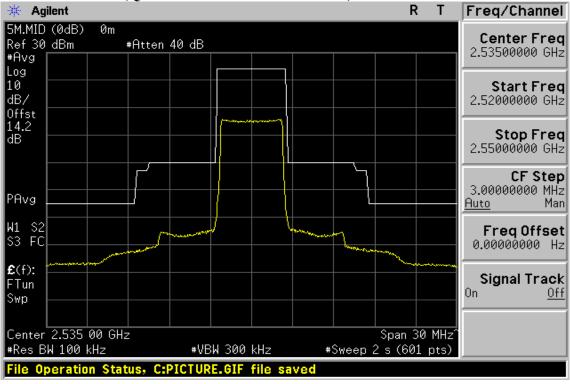




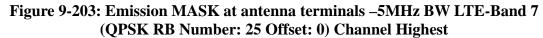


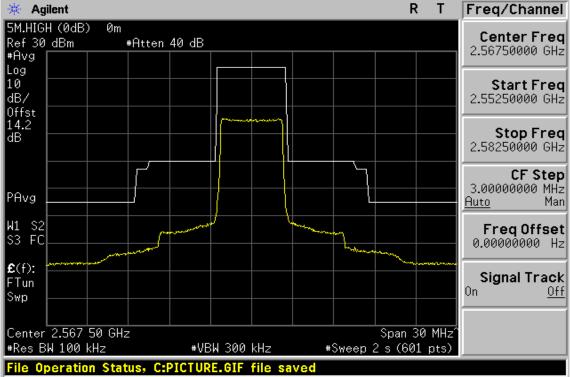








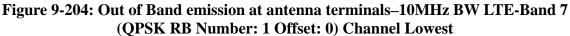


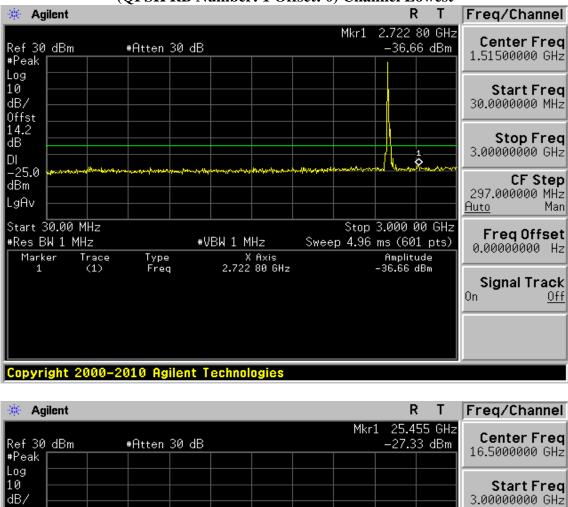


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Offst 14.2dB \diamond 30.0000000 GHz DI 25.0dBm LgAv Start 3.000 GHz Stop 30.000 GHz #Res BW 1 MHz

CF Step 2.70000000 GHz Auto Freq Offset #VBW 1 MHz Sweep 135 ms (601 pts) 0.00000000 Hz X Axis 25.455 GHz Amplitude -27.33 dBm Trace (1) Type Freq Signal Track 0n

File Operation Status, C:PICTURE.GIF file saved

Marker

1

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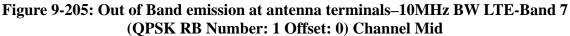
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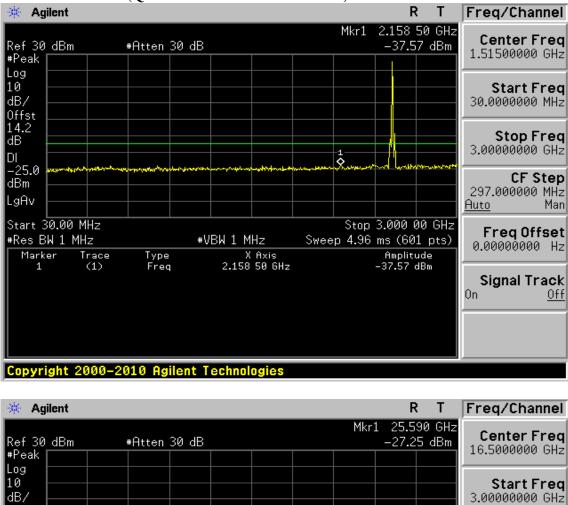
Stop Freq

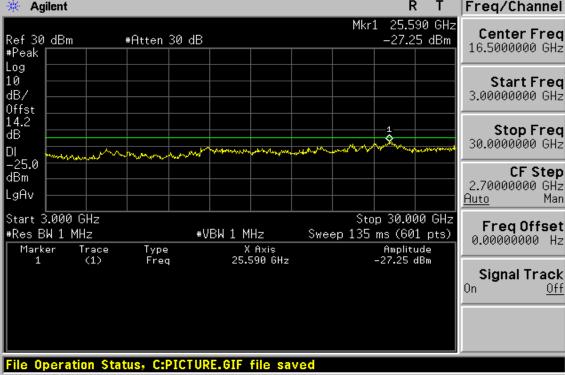
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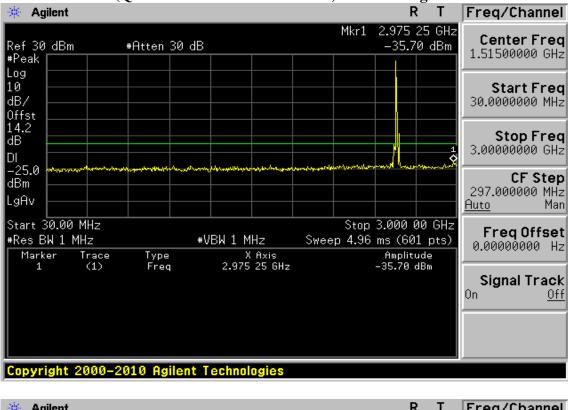


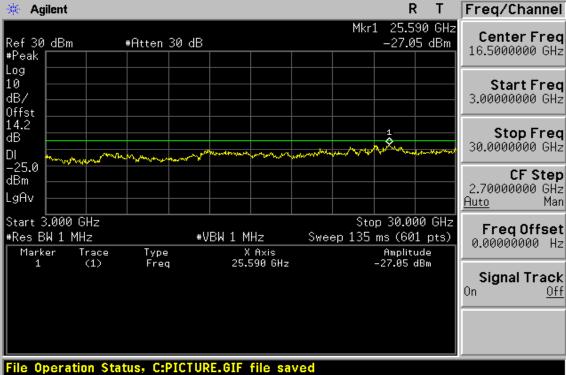
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Out of Band emission at antenna terminals -10MHz BW LTE-Band 7

(OPSK RB Number: 1 Offset: 0)

Fundamental Frequency Operation Mode		:2505.5 MHz Engineer :TX Low		eer	:Marcus	
	Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB	
	<30	S		-13.00		
	30-1000	S		-13.00		
	5011.00	Н		-13.00		
	7516.50	Н		-13.00		
	10022.00	Н		-13.00		
	12527.50	Н		-13.00		
	15033.00	Н		-13.00		
	17538.50	Н		-13.00		
	20044.00	Н		-13.00		
	22549.50	Н		-13.00		
	25055.00	Н		-13.00		

-27.33

-13.00

14.33

"H": denotes Harmonic Frequency. "S": denotes Spurious Frequency. Note : "---": denotes Noise Floor.

25455.00

S

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Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 513 of 774

Fundamental Frequency Operation Mode		:2535 MHz 1 :TX Mid		leer	:Marcus
	Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
	<30	S		-13.00	
	30-1000	S		-13.00	
	5070.00	Н		-13.00	
	7605.00	Н		-13.00	
	10140.00	Н		-13.00	
	12675.00	Н		-13.00	
	15210.00	Н		-13.00	
	17745.00	Н		-13.00	
	20280.00	Н		-13.00	
	22815.00	Н		-13.00	
	25350.00	Н		-13.00	
	25590.00	S	-27.25	-13.00	14.25

"H": denotes Harmonic Frequency. "S": denotes Spurious Frequency. Note : "---": denotes Noise Floor.

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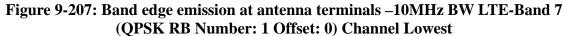
Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 514 of 774

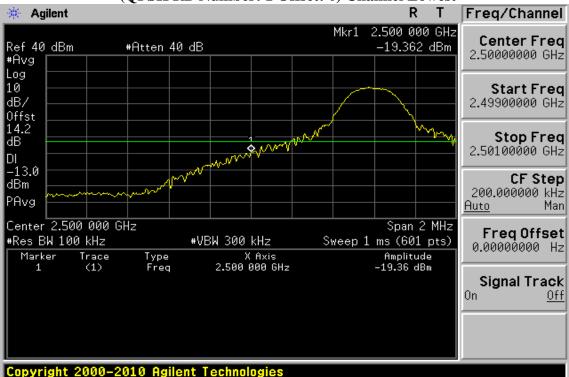
Fundamental Frequency Operation Mode		:2565MHz :TX High	Engin	Engineer	
	Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
	<30	S		-13.00	
	30-1000	S		-13.00	
	5130.00	Н		-13.00	
	7695.00	Н		-13.00	
	10260.00	Н		-13.00	
	12825.00	Н		-13.00	
	15390.00	Н		-13.00	
	17955.00	Н		-13.00	
	20520.00	Н		-13.00	
	23085.00	Н		-13.00	
	25590.00	S	-27.05	-13.00	14.05
	25650.00	Н		-13.00	

"H": denotes Harmonic Frequency. "S": denotes Spurious Frequency. Note : "": denotes Spurious Freque

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:Marcus

Band edge emission at antenna terminals -10MHz BW LTE-Band 7

(QPSK RB Number: 1 Offset: 0) (QPSK RB Number: 1 Offset: 49) Test Mode 10MHz BW LTE-Band 7 Engineer

> Safe Freq. Reading Limit Margin dBm MHz dBm dB -19.36 -13.00 6.36 2500.000 -19.07 6.07 2570.013 -13.00

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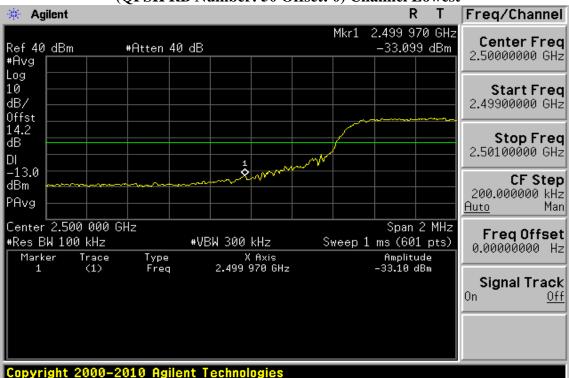
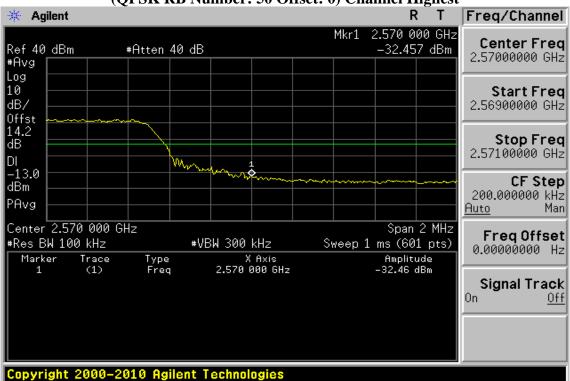


Figure 9-210: Band edge emission at antenna terminals -10MHz BW LTE-Band 7 (QPSK RB Number: 50 Offset: 0) Channel Highest



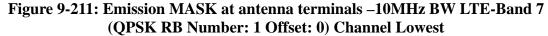


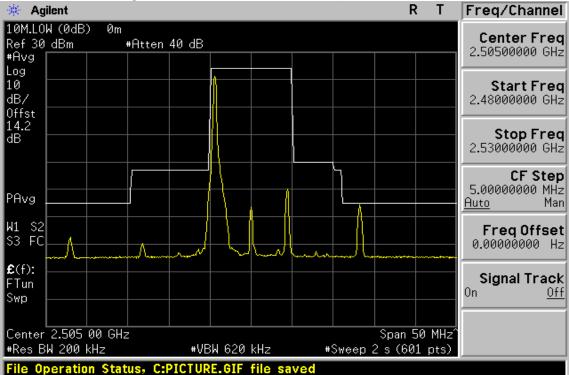
Band edge emission at antenna terminals -10MHz BW LTE-Band 7

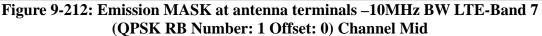
(QPSK RB Number: 50 Offset: 0)

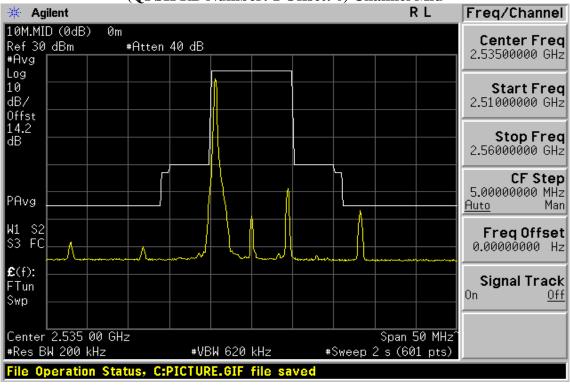
Test Mode	10MHz BV	10MHz BW LTE-Band 7		Engineer	
	Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB	_
	2499.970 2570.000	-33.10 -32.46	-13.00 -13.00	20.10 19.46	

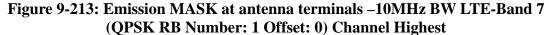
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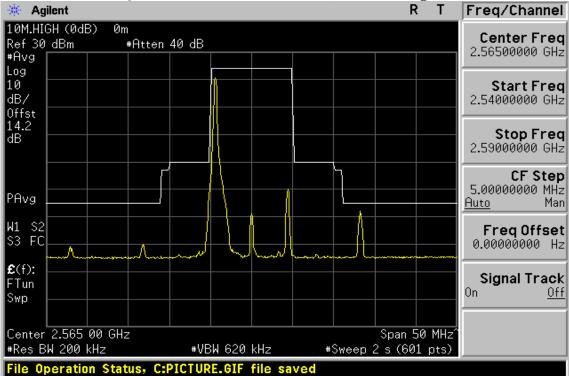




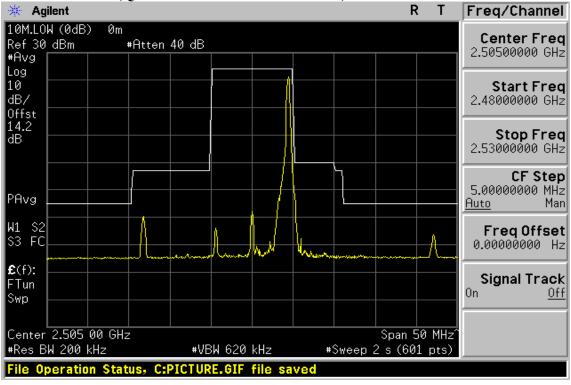


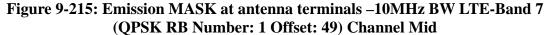


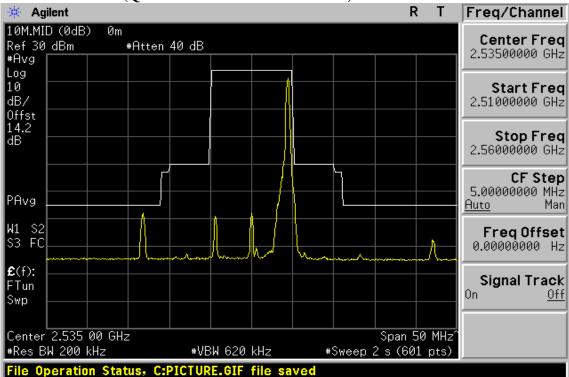


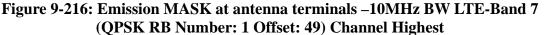


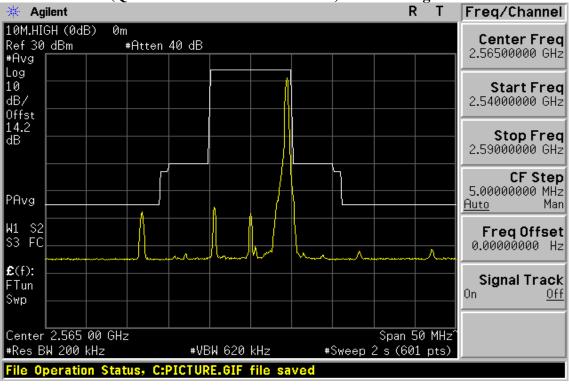




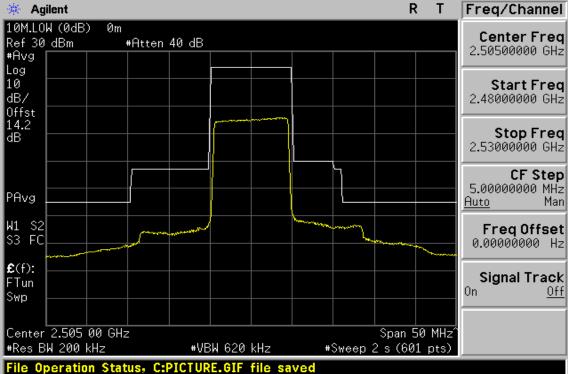


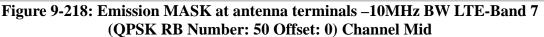


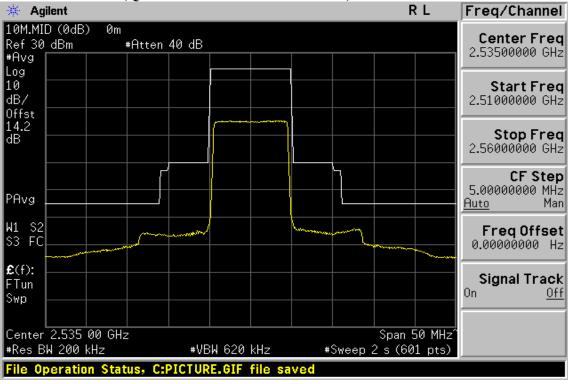






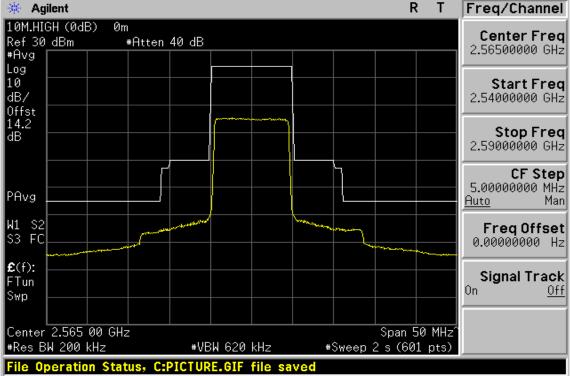








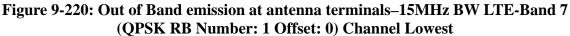


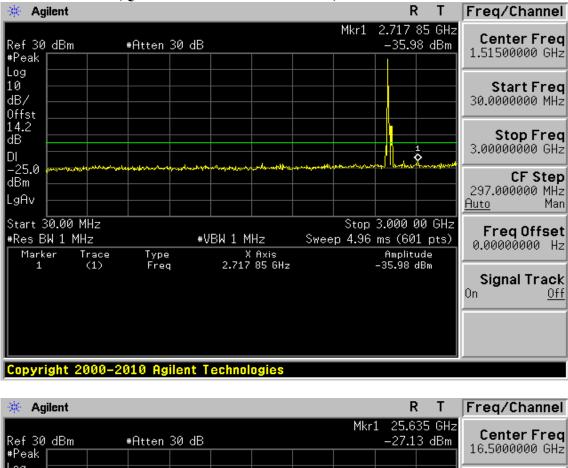


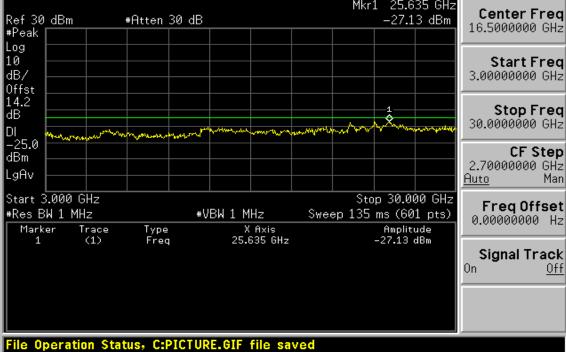
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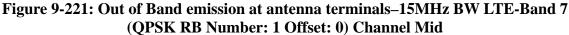


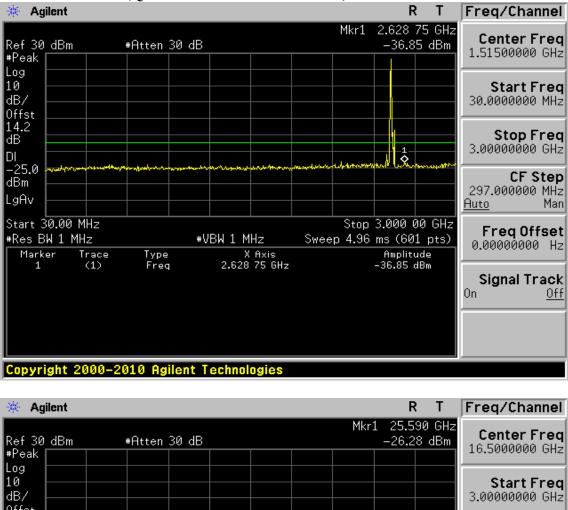




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Offst 14.2Stop Freq dB ٥ 30.0000000 GHz DI 25.0 CF Step dBm 2.70000000 GHz LgAv Auto Start 3.000 GHz Stop 30.000 GHz Freq Offset #Res BW 1 MHz #VBW 1 MHz Sweep 135 ms (601 pts) 0.00000000 Hz X Axis 25.590 GHz Amplitude -26.28 dBm Marker Trace (1) Type Freq 1 Signal Track 0n

File Operation Status, C:PICTURE.GIF file saved

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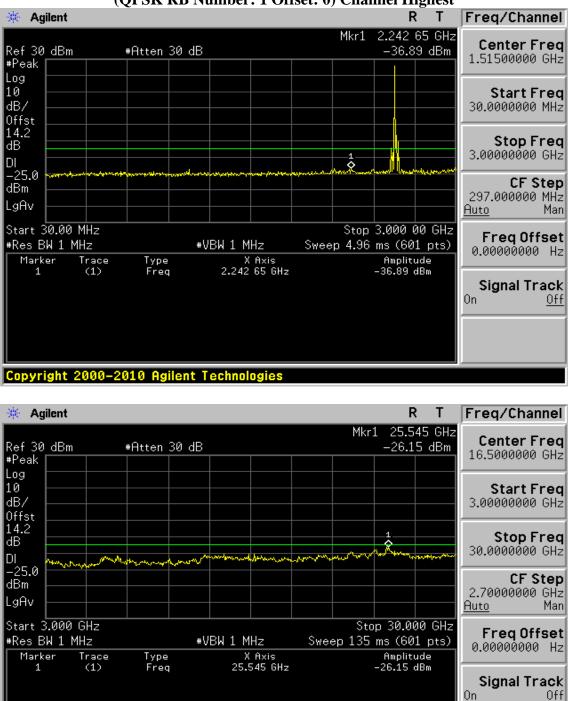
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Man

Off







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Out of Band emission at antenna terminals -15MHz BW LTE-Band 7

(OPSK RB Number: 1 Offset: 0)

22567.50

25075.00

25635.00

Fundamental Frequency Operation Mode	:2507.5 MHz :TX Low	Engineer		:Marcus	
Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB	
<30	S		-13.00		
30-1000) S		-13.00		
5015.00) Н		-13.00		
7522.50) Н		-13.00		
10030.0	0 H		-13.00		
12537.5	0 Н		-13.00		
15045.0	0 Н		-13.00		
17552.5	0 Н		-13.00		
20060.0	0 H		-13.00		

-27.13

"H": denotes Harmonic Frequency. "S": denotes Spurious Frequency. Note : "---": denotes Noise Floor.

Η

Η

S

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-13.00

-13.00

-13.00

14.13



Fundamental Frequency Operation Mode		:2535 MHz :TX Mid	Engin	Engineer		
	Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB	
	<30	S		-13.00		
	30-1000	S		-13.00		
	5070.00	Н		-13.00		
	7605.00	Н		-13.00		
	10140.00	Н		-13.00		
	12675.00	Н		-13.00		
	15210.00	Н		-13.00		
	17745.00	Н		-13.00		
	20280.00	Н		-13.00		
	22815.00	Н		-13.00		
	25350.00	Н		-13.00		
	25590.00	S	-26.28	-13.00	13.28	

"H": denotes Harmonic Frequency. "S": denotes Spurious Frequency. Note : "---": denotes Noise Floor.

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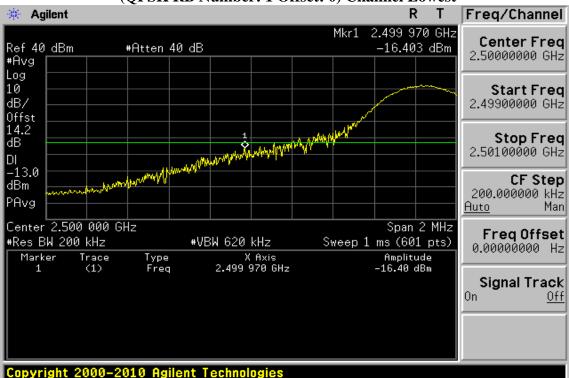
Fundamental Frequency Operation Mode		:2562.5MHz :TX High	Engin	Engineer	
	Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
	<30	S		-13.00	
	30-1000	S		-13.00	
	5125.00	Н		-13.00	
	7687.50	Н		-13.00	
	10250.00	Н		-13.00	
	12812.50	Н		-13.00	
	15375.00	Н		-13.00	
	17937.50	Н		-13.00	
	20500.00	Н		-13.00	
	23062.50	Н		-13.00	
	25545.00	S	-26.15	-13.00	13.15
	25625.00	Н		-13.00	

"H": denotes Harmonic Frequency. "S": denotes Spurious Frequency. Note : "": denotes Spurious Freque

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Band edge emission at antenna terminals -15MHz BW LTE-Band 7

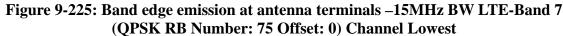
(QPSK RB Number: 1 Offset: 0) (QPSK RB Number: 1 Offset: 74)

Test Mode 15MHz BW LTE-Band 7 Engineer :Marcus Safe Limit Freq. Reading Margin MHz dBm dRm

	uDIII	uDIII	dB
2499.970	-16.40	-13.00	3.40
2570.007	-16.89	-13.00	3.89

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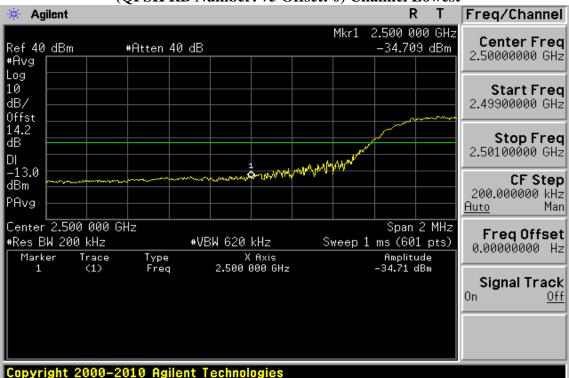
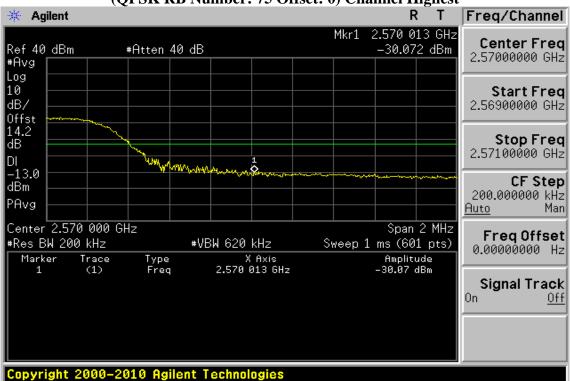


Figure 9-226: Band edge emission at antenna terminals –15MHz BW LTE-Band 7 (QPSK RB Number: 75 Offset: 0) Channel Highest



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Band edge emission at antenna terminals -15MHz BW LTE-Band 7

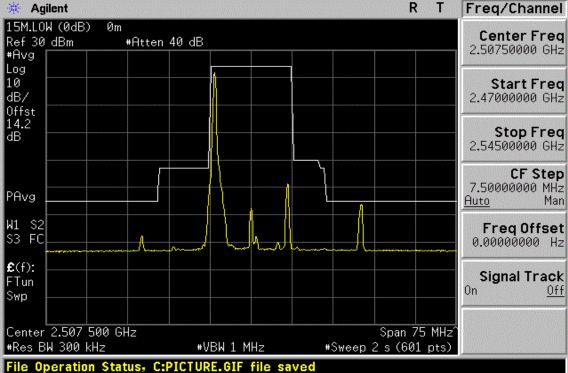
(QPSK RB Number: 75 Offset: 0)

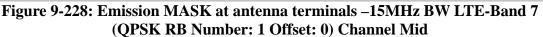
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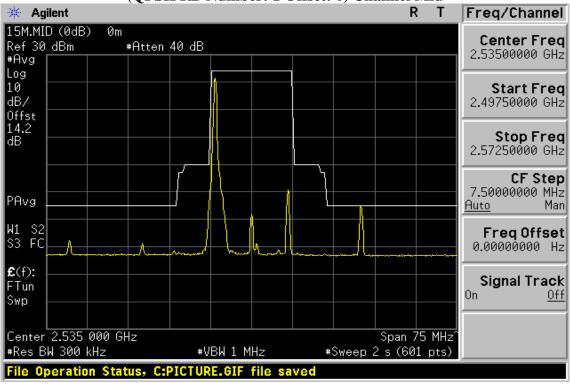
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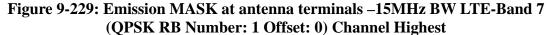


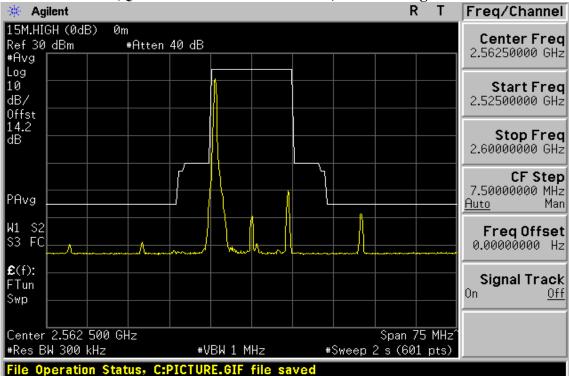




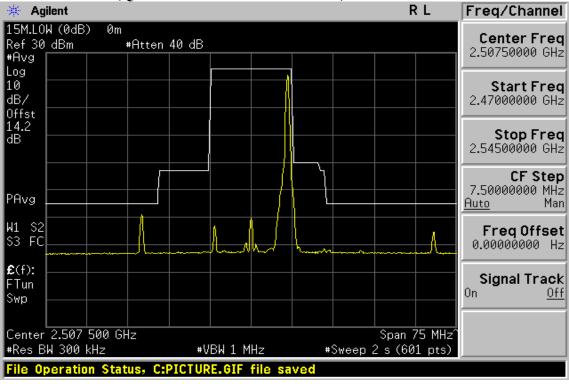


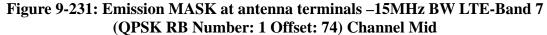


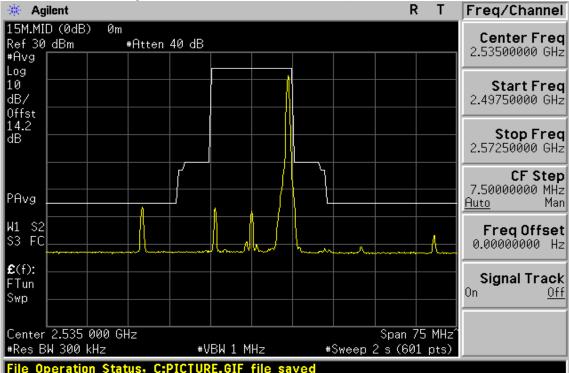




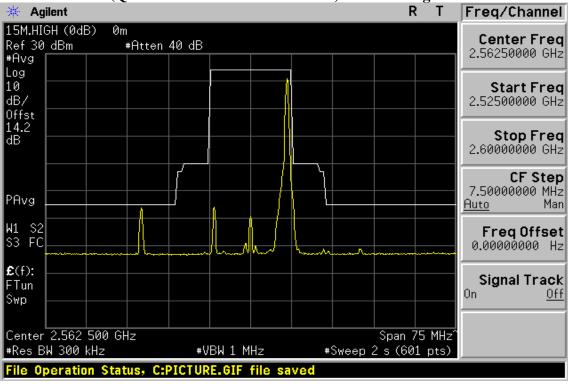




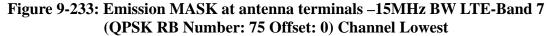


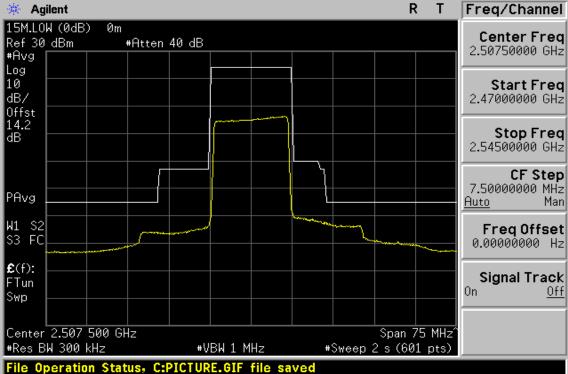


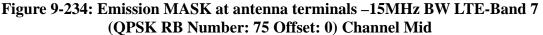


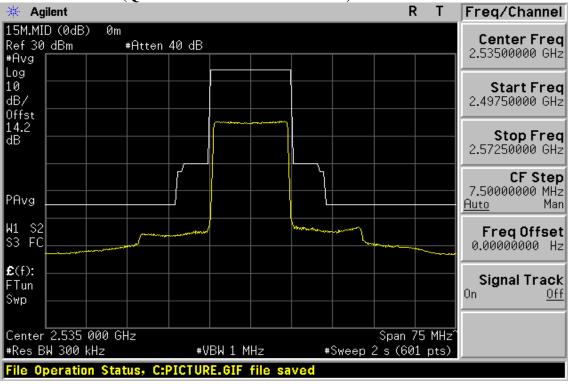






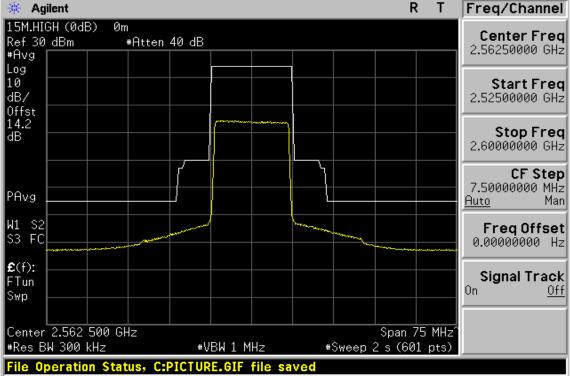






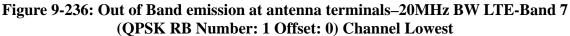


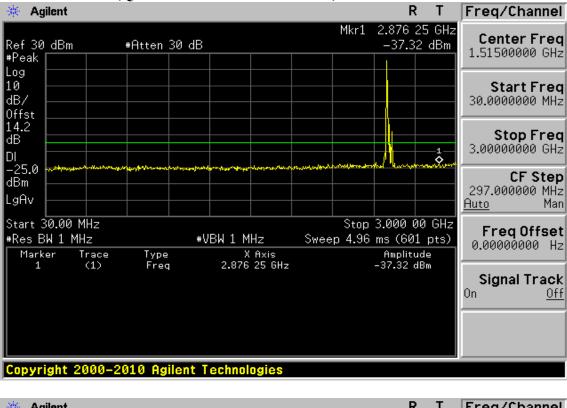


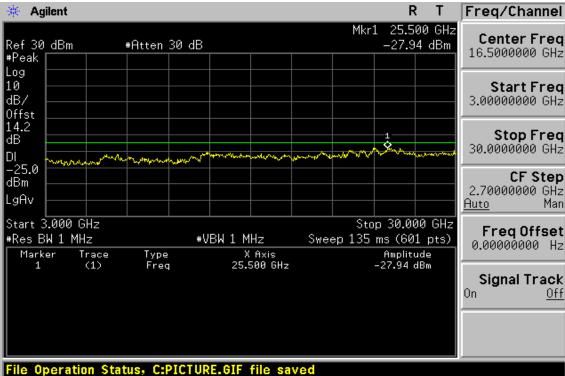


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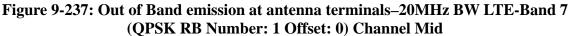


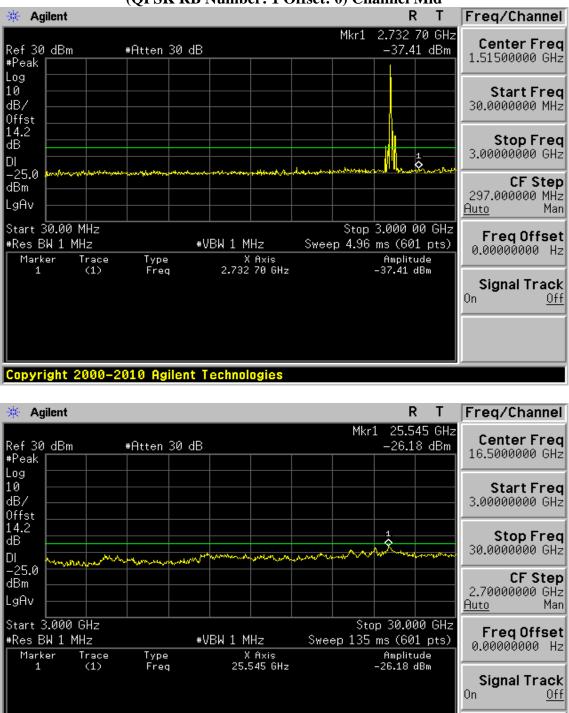




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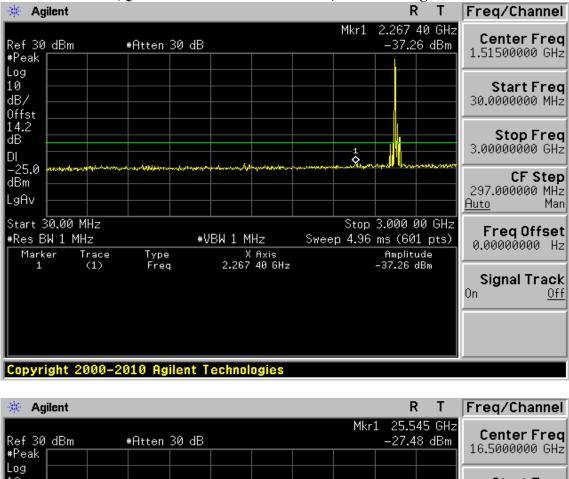
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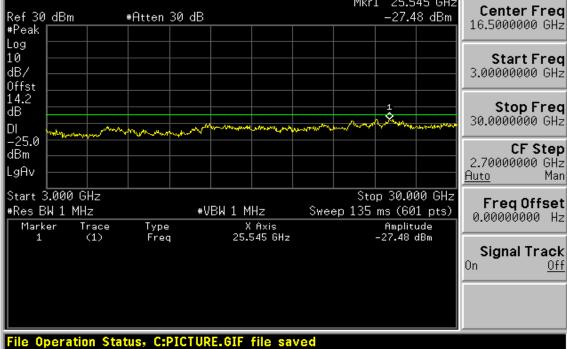
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Out of Band emission at antenna terminals -20MHz BW LTE-Band 7

(OPSK RB Number: 1 Offset: 0)

20080.00

22590.00 25100.00

25500.00

(QI SK KD Ruinber, I	Oliset. 0)			
Fundamental Frequency	2510 MHz	Eng	ineer	:Marcus
Operation Mode	:TX Low	C		
Freq	I. Note	Reading	Limit	Safe
(MHz		dBm	dBm	Margin dB
<30	S S		-13.00	
30-10	00 S		-13.00	
5020.0	00 H		-13.00	
7530.0	00 H		-13.00	
10040.	.00 Н		-13.00	
12550.	.00 Н		-13.00	
15060.	.00 Н		-13.00	
17570.	.00 Н		-13.00	

-27.94

"H": denotes Harmonic Frequency. "S": denotes Spurious Frequency. Note : "---": denotes Noise Floor.

Η

Η

Η

S

-13.00

-13.00

-13.00

-13.00

14.94

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Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 543 of 774

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Fundamental Frequency Operation Mode		:2535 MHz :TX Mid	Engin	Engineer		:Marcus	
	Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB	•	
	<30	S		-13.00			
	30-1000	S		-13.00			
	5070.00	Н		-13.00			
	7605.00	Н		-13.00			
	10140.00	Н		-13.00			
	12675.00	Н		-13.00			
	15210.00	Н		-13.00			
	17745.00	Н		-13.00			
	20280.00	Н		-13.00			
	22815.00	Н		-13.00			
	25350.00	Н		-13.00			
	25545.00	S	-26.18	-13.00	13.18		

"H": denotes Harmonic Frequency. "S": denotes Spurious Frequency. Note : "---": denotes Noise Floor.

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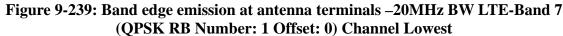
Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 544 of 774

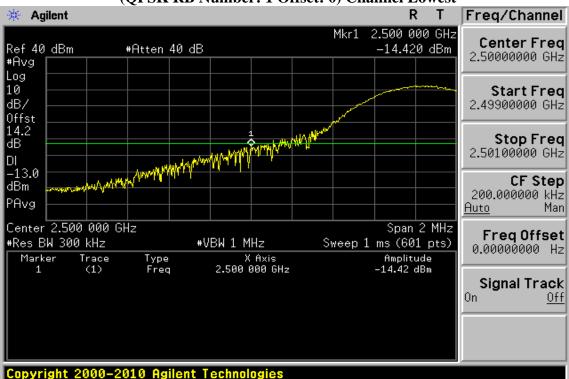
Fundamental Frequency Operation Mode		:2560MHz :TX High	Engin	Engineer	
	Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
	<30	S		-13.00	
	30-1000	S		-13.00	
	5120.00	Н		-13.00	
	7680.00	Н		-13.00	
	10240.00	Н		-13.00	
	12800.00	Н		-13.00	
	15360.00	Н		-13.00	
	17920.00	Н		-13.00	
	20480.00	Н		-13.00	
	23040.00	Н		-13.00	
	25545.00	S	-27.48	-13.00	14.48
	25600.00	Н		-13.00	

"H": denotes Harmonic Frequency. "S": denotes Spurious Frequency. Note : "": denotes Spurious Freque

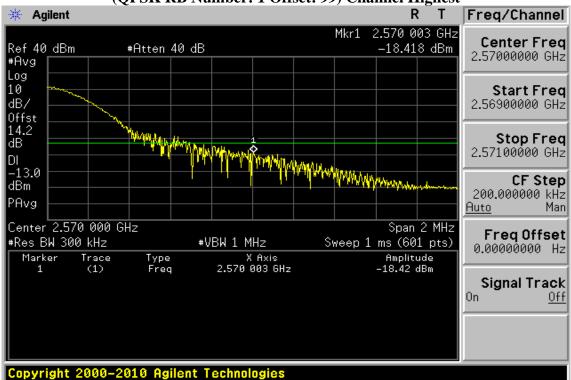
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:Marcus

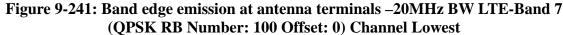
Band edge emission at antenna terminals -20MHz BW LTE-Band 7

(QPSK RB Number: 1 Offset: 0) (QPSK RB Number: 1 Offset: 99) Test Mode 20MHz BW LTE-Band 7 Engineer

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
2500.000	-14.42	-13.00	1.42
2570.003	-18.42	-13.00	5.42

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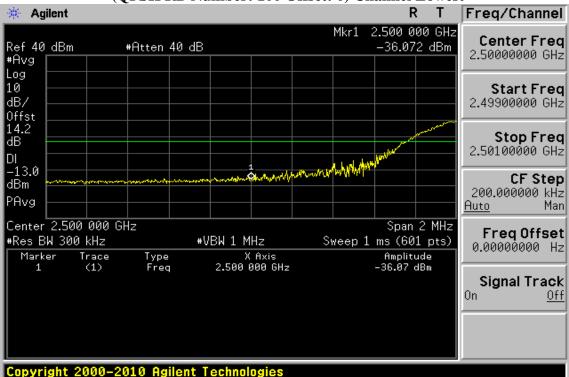
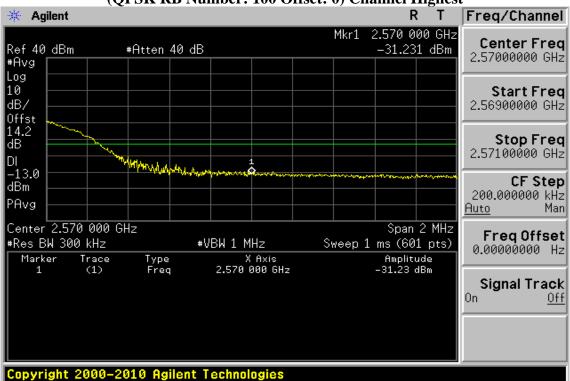


Figure 9-242: Band edge emission at antenna terminals –20MHz BW LTE-Band 7 (QPSK RB Number: 100 Offset: 0) Channel Highest



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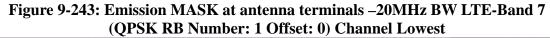
Band edge emission at antenna terminals -20MHz BW LTE-Band 7

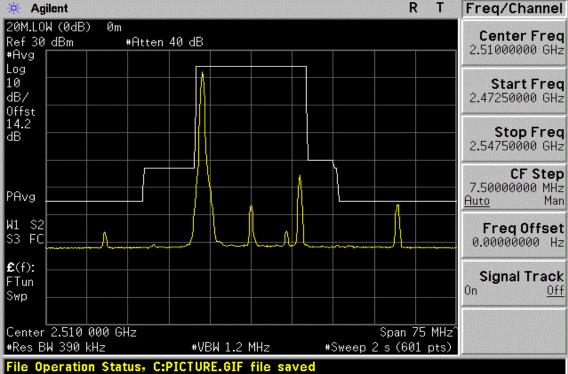
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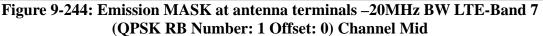
Test Mode	20MHz BV	20MHz BW LTE-Band 7		Engineer	
	Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB	
	2500.000 2570.000	-36.07 -31.23	-13.00 -13.00	23.07 18.23	

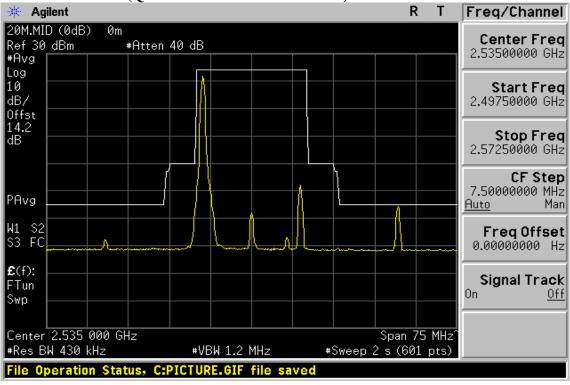
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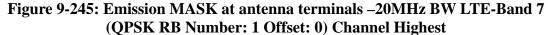


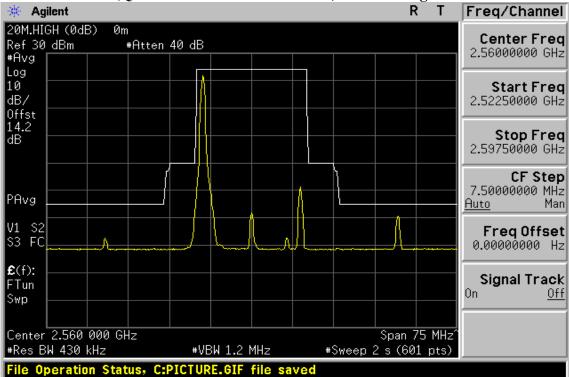


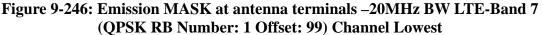


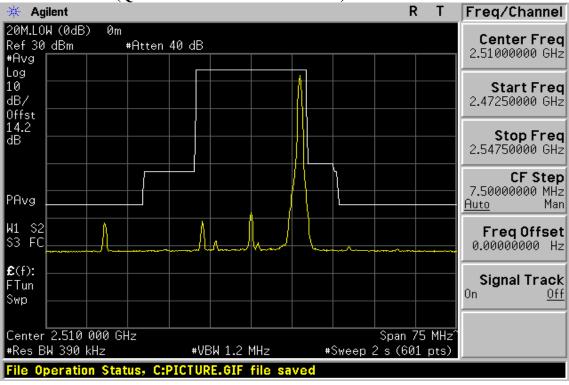


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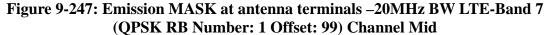


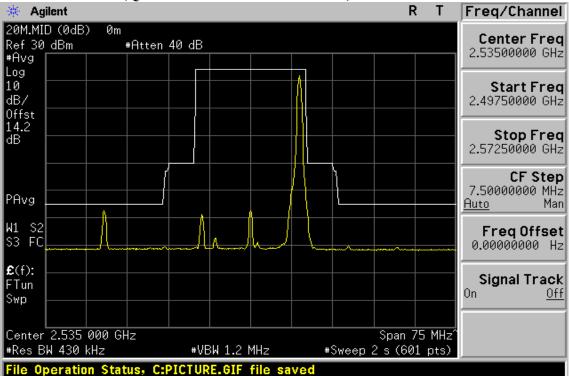


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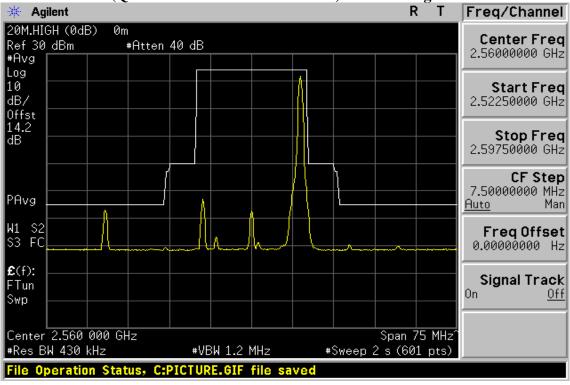
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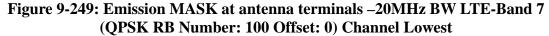


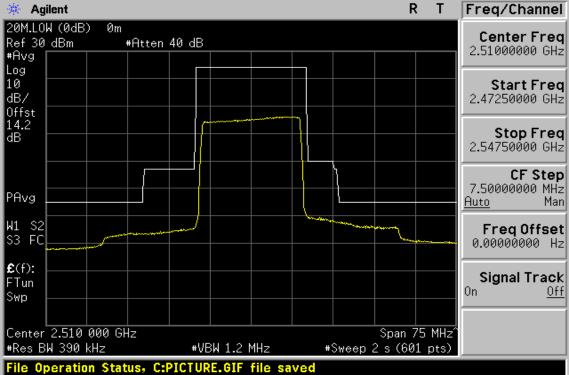


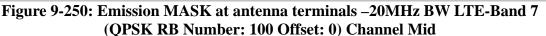


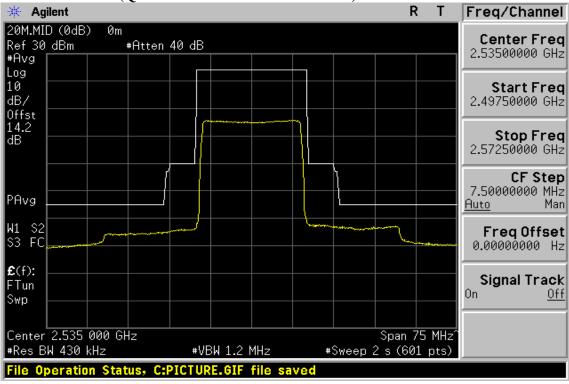
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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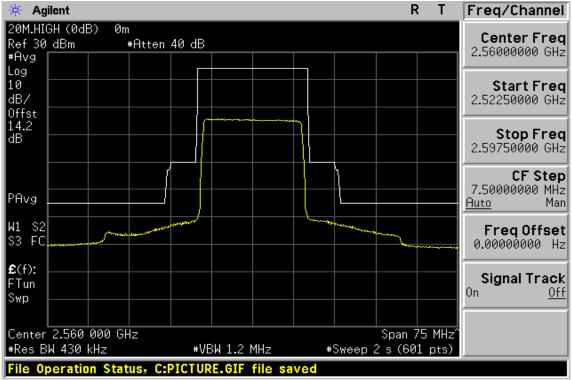


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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10. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

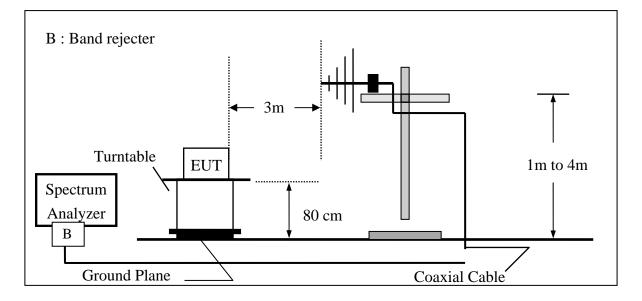
10.1. Standard Applicable:

According to FCC §2.1053,

FCC \$22.917(a), \$24.238(a), \$27.53(g) (h) the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/ or alignment procedure, shall not be less than 43 + 10 log (mean output power in watts) dBc below the mean power output outside a license's frequency block (-13dBm). \$27.53 (m) (4) shall not be less than 55 +10log(mean output power in watt) dBc below the mean power output outside a license's frequency block (-25dBm).

10.2. EUT Setup (Block Diagram of Configuration):

Radiated Emission Test Set-Up, Frequency Below 1000MHz



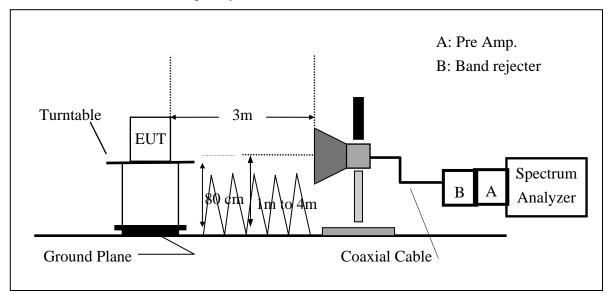
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only

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Radiated Emission Test Set-UP Frequency Over 1 GHz

10.3. Measurement Procedure:

The EUT was placed on a non-conductive; the measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequencies (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

ERP= S.G. output (dBm) + Antenna Gain (dBd) – Cable Loss (dB)

EIRP = S.G. output (dBm) + Antenna Gain (dBi) – Cable Loss (dB)

10.4. Measurement Equipment Used:

Refer to section 2.4 in this report

10.5. Measurement Result:

Refer to attach tabular data sheets.

For radiated plot of test data, please refer to Appendix 1, page 720

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only

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Radiated S	purious Emis	ssion Measurer	nent Result: GS	M 850 Mode			
Operation B	and	:GSM 850		st Date		:2014-11-29	
ARFCN		:CH 128		mp./Humi.		:23 deg_C / 56 RH	
Fundamenta		:824.2 MHz	En	gineer		:Curry	
Operation M	lode	:TX LOW			D 1		
EUT Pol.		:H Plane	Me	easurement Ante	enna Pol.	:VERTICAI	_
Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
1			Output Level	Gain	Loss		C
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
IVII IZ	1/11/1/5	uDili	uDili	ubu	uD	uDIII	ub
45.52	S	-67.50	-54.83	-11.75	-0.92	-13.00	-54.50
241.46	S	-73.42	-75.04	3.29	-1.68	-13.00	-60.42
450.98	S	-72.64	-74.26	3.85	-2.22	-13.00	-59.64
644.01	S	-66.00	-67.23	3.90	-2.68	-13.00	-53.00
772.05	S	-55.95	-56.76	3.71	-2.89	-13.00	-42.95
942.77	S	-66.77	-66.82	3.37	-3.33	-13.00	-53.77
1648.40	Н	-57.36	-56.50	3.56	-4.42	-13.00	-44.36
2472.60	Н	-48.78	-47.51	4.18	-5.45	-13.00	-35.78
3296.80	Н						
4121.00	Н						
4945.20	Н						
5769.40	Н						
6593.60	Н						
7417.80	Н						
0010.00							

- He to d Commission Frankriker Management and Dample, COM 950 Made

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

"F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency. Note :

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---": denotes Noise Floor..

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Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 557 of 774

Operation Band ARFCN Fundamental Frequency Operation Mode		:GSM 850 :CH 128 :824.2 MHz :TX LOW	Test Date Temp./Humi. Engineer			:2014-11-29 :23 deg_C / 56 RH :Curry		
EUT Pol.	Iduc	:H Plane	Me	easurement Ante	enna Pol.	:HORIZONTAL		
Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin	
			Output Level	Gain	Loss			
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB	
98.87	S	-74.95	-72.81	-0.94	-1.20	-13.00	-61.95	
241.46	S	-70.38	-72.00	3.29	-1.68	-13.00	-57.38	
353.98	S	-72.52	-74.59	4.06	-1.99	-13.00	-59.52	
650.80	S	-67.28	-68.54	3.94	-2.68	-13.00	-54.28	
769.14	S	-55.27	-56.08	3.70	-2.89	-13.00	-42.27	
916.58	S	-66.59	-66.79	3.49	-3.29	-13.00	-53.59	
1648.40	Н	-61.28	-60.42	3.56	-4.42	-13.00	-48.28	
2472.60	Н	-52.62	-51.35	4.18	-5.45	-13.00	-39.62	
3296.80	Н							
4121.00	Н							
4945.20	Н							
5769.40	Н							
6593.60	Н							
7417.80	Н							
8242.00	Н							

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

"F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency. Note :

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---": denotes Noise Floor.



Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 558 of 774

Operation Band ARFCN Fundamental Frequency Operation Mode		:GSM 850 :CH 190 :836.6 MHz :TX MID	Ter	Test Date Temp./Humi. Engineer			:2014-11-29 :23 deg_C / 56 RH :Curry	
EUT Pol.	loue	:H Plane	Me	Measurement Antenna Pol.			_	
Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin	
			Output Level	Gain	Loss			
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB	
46.49	S	-67.47	-54.99	-11.54	-0.93	-13.00	-54.47	
100.81	S	-74.01	-71.68	-1.13	-1.20	-13.00	-61.01	
300.63	S	-71.62	-73.47	3.73	-1.87	-13.00	-58.62	
521.79	S	-71.62	-73.13	3.93	-2.41	-13.00	-58.62	
641.10	S	-66.49	-67.71	3.89	-2.67	-13.00	-53.49	
772.05	S	-55.72	-56.53	3.71	-2.89	-13.00	-42.72	
1673.20	Н	-57.13	-56.17	3.49	-4.45	-13.00	-44.13	
2509.80	Н	-52.34	-51.12	4.28	-5.49	-13.00	-39.34	
3346.40	Н							
4183.00	Н							
5019.60	Н							
5856.20	Н							
6692.80	Н							
7529.40	Н							
8366.00	Н							

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

"F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency. Note :

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---": denotes Noise Floor.



Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 559 of 774

Operation Band ARFCN Fundamental Frequency Operation Mode		:GSM 850 :CH 190 :836.6 MHz :TX MID	Test Date Temp./Humi. Engineer			:2014-11-29 :23 deg_C / 56 RH :Curry		
EUT Pol.	loue	:H Plane	Mea	asurement Ante	nna Pol.	:HORIZONTAL		
Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin	
			Output Level	Gain	Loss			
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB	
88.20	S	-73.93	-72.11	-0.65	-1.17	-13.00	-60.93	
243.40	S	-69.79	-71.41	3.30	-1.68	-13.00	-56.79	
439.34	S	-70.80	-72.50	3.88	-2.19	-13.00	-57.80	
640.13	S	-67.27	-68.48	3.88	-2.67	-13.00	-54.27	
769.14	S	-54.42	-55.24	3.70	-2.89	-13.00	-41.42	
937.92	S	-65.43	-65.50	3.39	-3.32	-13.00	-52.43	
1673.20	Н	-60.31	-59.35	3.49	-4.45	-13.00	-47.31	
2509.80	Н	-55.58	-54.37	4.28	-5.49	-13.00	-42.58	
3346.40	Н							
4183.00	Н							
5019.60	Н							
5856.20	Н							
6692.80	Н							
7529.40	Н							
8366.00	Н							

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

"F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency. Note :

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---": denotes Noise Floor.



Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 560 of 774

Operation Band ARFCN Fundamental Frequency Operation Mode		:GSM 850 :CH 251 :848.8 MHz :TX HIGH	Ten	Test Date Temp./Humi. Engineer			:2014-11-29 :23 deg_C / 56 RH :Curry	
EUT Pol.		:H Plane	Me	Measurement Antenna Pol.				
Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin	
			Output Level	Gain	Loss			
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB	
43.58	S	-67.39	-54.60	-11.92	-0.88	-13.00	-54.39	
250.19	S	-72.73	-74.35	3.34	-1.71	-13.00	-59.73	
321.97	S	-70.75	-72.71	3.88	-1.92	-13.00	-57.75	
522.76	S	-71.31	-72.82	3.93	-2.42	-13.00	-58.31	
680.87	S	-66.69	-67.87	3.90	-2.72	-13.00	-53.69	
773.02	S	-54.63	-55.44	3.71	-2.90	-13.00	-41.63	
1697.60	Н	-58.77	-57.72	3.43	-4.48	-13.00	-45.77	
2546.40	Н	-54.94	-53.77	4.37	-5.54	-13.00	-41.94	
3395.20	Н							
4244.00	Н							
5092.80	Н							
5941.60	Н							
6790.40	Н							
7639.20	Н							
8488.00	Н	-48.23	-48.39	10.64	-10.48	-13.00	-35.23	

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

"F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency. Note :

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---": denotes Noise Floor.



Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 561 of 774

Operation Band ARFCN Fundamental Frequency Operation Mode		:GSM 850 :CH 251 :848.8 MHz :TX HIGH	Test Date Temp./Humi. Engineer			:2014-11-29 :23 deg_C / 56 RH :Curry	
EUT Pol.		:H Plane	Me	asurement Ante	nna Pol.	:HORIZONTAL	
Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
91.11	S	-73.79	-72.26	-0.33	-1.20	-13.00	-60.79
239.52	S	-69.92	-71.56	3.31	-1.67	-13.00	-56.92
448.07	S	-71.60	-73.24	3.85	-2.21	-13.00	-58.60
633.34	S	-67.71	-68.89	3.84	-2.66	-13.00	-54.71
771.08	S	-56.81	-57.63	3.71	-2.89	-13.00	-43.81
951.50	S	-66.47	-66.38	3.25	-3.34	-13.00	-53.47
1697.60	Н	-61.82	-60.77	3.43	-4.48	-13.00	-48.82
2546.40	Н	-54.76	-53.59	4.37	-5.54	-13.00	-41.76
3395.20	Н						
4244.00	Н						
5092.80	Н						
5941.60	Н						
6790.40	Н						
7639.20	Н						
8488.00	Н	-49.03	-49.18	10.64	-10.48	-13.00	-36.03

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

"F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency. Note :

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---": denotes Noise Floor.



Radiated Spurious Emission Measurement Result: GSM 1900 Mode

Operation Band	:GSM 1900	Test Date	:2014-11-20
ARFCN	:CH 512	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
45.52	S	-65.71	-55.20	-9.60	-0.92	-13.00	-52.71
99.84	S	-70.84	-70.79	1.14	-1.20	-13.00	-57.84
327.79	S	-69.93	-74.07	6.07	-1.93	-13.00	-56.93
605.21	S	-67.29	-70.49	5.82	-2.63	-13.00	-54.29
769.14	S	-53.98	-56.95	5.85	-2.89	-13.00	-40.98
936.95	S	-64.77	-67.00	5.54	-3.32	-13.00	-51.77
3700.40	Н	-45.12	-47.44	9.13	-6.80	-13.00	-32.12
5550.60	Н	-48.20	-50.30	10.50	-8.40	-13.00	-35.20
7400.80	Н	-51.32	-53.34	11.80	-9.78	-13.00	-38.32
9251.00	Н						
11101.20	Н						

12951.40	Н	
14801.60	Н	
16651.80	Н	
18502.00	Н	

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---": denotes Noise Floor.



Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 563 of 774

Operation Band ARFCN Fundamental Frequency Operation Mode		:GSM 1900 :CH 512 :1850.2 MHz :TX LOW	Т	Test Date Temp./Humi. Engineer			:2014-11-20 :23 deg_C / 58 RH :Tin	
EUT Pol.		:H Plane	Ν	leasurement Anter	nna Pol.	:HORIZONTAL		
Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin	
			Output Level	Gain	Loss			
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB	
87.23	S	-74.44	-74.56	1.27	-1.15	-13.00	-61.44	
240.49	S	-67.85	-71.62	5.44	-1.67	-13.00	-54.85	
442.25	S	-68.88	-72.70	6.02	-2.20	-13.00	-55.88	
642.07	S	-65.23	-68.60	6.04	-2.67	-13.00	-52.23	
772.05	S	-54.20	-57.16	5.86	-2.89	-13.00	-41.20	
946.65	S	-64.61	-66.78	5.50	-3.33	-13.00	-51.61	
3700.40	Н	-46.55	-48.88	9.13	-6.80	-13.00	-33.55	
5550.60	Н	-43.01	-45.11	10.50	-8.40	-13.00	-30.01	
7400.80	Н	-46.90	-48.91	11.80	-9.78	-13.00	-33.90	
9251.00	Н							
11101.20	Н							
12951.40	Н							
14801.60	Н							
16651.80	Н							
18502.00	Н							

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

"F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency. Note :

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---": denotes Noise Floor.



Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 564 of 774

Operation Band ARFCN Fundamental Frequency Operation Mode		:GSM 1900 :CH 661 :1880 MHz :TX MID	Test Date Temp./Humi. Engineer			:2014-11-20 :23 deg_C / 58 RH :Tin		
EUT Pol.		:H Plane	М	easurement Ante	nna Pol.	:VERTICAL		
Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin	
			Output Level	Gain	Loss			
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB	
46.49	S	-65.47	-55.14	-9.39	-0.93	-13.00	-52.47	
249.22	S	-71.42	-75.20	5.48	-1.71	-13.00	-58.42	
428.67	S	-70.46	-74.37	6.07	-2.16	-13.00	-57.46	
630.43	S	-65.99	-69.31	5.98	-2.66	-13.00	-52.99	
769.14	S	-56.37	-59.34	5.85	-2.89	-13.00	-43.37	
946.65	S	-64.45	-66.62	5.50	-3.33	-13.00	-51.45	
3760.00	Н	-43.75	-46.06	9.16	-6.85	-13.00	-30.75	
5640.00	Н	-47.83	-49.86	10.50	-8.47	-13.00	-34.83	
7520.00	Н	-51.64	-53.68	11.92	-9.87	-13.00	-38.64	
9400.00	Н							
11280.00	Н							
13160.00	Н							
15040.00	Н							
16920.00	Н							
18800.00	Н							

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

"F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency. Note :

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---": denotes Noise Floor.



Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 565 of 774

Operation Band ARFCN Fundamental Frequency Operation Mode		:GSM 1900 :CH 661 :1880 MHz :TX MID	Test Date Temp./Humi. Engineer			:2014-11-20 :23 deg_C / 58 RH :Tin		
EUT Pol.	loue	:H Plane	M	easurement Ante	nna Pol.	:HORIZONTAL		
Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin	
			Output Level	Gain	Loss			
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB	
94.02	S	-73.18	-73.56	1.59	-1.20	-13.00	-60.18	
240.49	S	-67.93	-71.69	5.44	-1.67	-13.00	-54.93	
418.97	S	-68.64	-72.61	6.10	-2.13	-13.00	-55.64	
582.90	S	-69.61	-72.91	5.87	-2.58	-13.00	-56.61	
679.90	S	-64.93	-68.27	6.05	-2.72	-13.00	-51.93	
771.08	S	-53.27	-56.23	5.86	-2.89	-13.00	-40.27	
3760.00	Н	-45.59	-47.90	9.16	-6.85	-13.00	-32.59	
5640.00	Н	-45.24	-47.27	10.50	-8.47	-13.00	-32.24	
7520.00	Н	-45.13	-47.17	11.92	-9.87	-13.00	-32.13	
9400.00	Н							
11280.00	Н							
13160.00	Н							
15040.00	Н							
16920.00	Н							
18800.00	Н							

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

"F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency. Note :

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---": denotes Noise Floor.



Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 566 of 774

Operation Band ARFCN Fundamental Frequency Operation Mode		:GSM 1900 :CH 810 :1909.8 MHz :TX HIGH	Test Date Temp./Humi. Engineer			:2014-11-20 :23 deg_C / 58 RH :Tin			
EUT Pol.		:H Plane	M	Measurement Antenna Pol.			:VERTICAL		
Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin		
			Output Level	Gain	Loss				
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB		
46.49	S	-64.91	-54.58	-9.39	-0.93	-13.00	-51.91		
159.01	S	-72.49	-72.18	1.10	-1.41	-13.00	-59.49		
387.93	S	-71.65	-75.78	6.18	-2.05	-13.00	-58.65		
526.64	S	-69.48	-73.13	6.07	-2.43	-13.00	-56.48		
652.74	S	-64.86	-68.26	6.09	-2.69	-13.00	-51.86		
769.14	S	-53.77	-56.74	5.85	-2.89	-13.00	-40.77		
3819.60	Н	-40.66	-42.96	9.20	-6.90	-13.00	-27.66		
5729.40	Н	-49.84	-51.80	10.50	-8.54	-13.00	-36.84		
7639.20	Н	-50.95	-53.03	12.01	-9.94	-13.00	-37.95		
9549.00	Н								
11458.80	Н								
13368.60	Н								
15278.40	Н								
17188.20	Н								
19098.00	Н								

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

"F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency. Note :

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---": denotes Noise Floor.



Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 567 of 774

Operation Band ARFCN Fundamental Frequency Operation Mode		:GSM 1900 :CH 810 :1909.8 MHz :TX HIGH	Г	Test Date Temp./Humi. Engineer			:2014-11-20 :23 deg_C / 58 RH :Tin		
EUT Pol.		:H Plane	Ν	Measurement Antenna Pol.			:HORIZONTAL		
Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin		
			Output Level	l Gain	Loss				
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB		
160.95	S	-72.92	-72.76	1.25	-1.41	-13.00	-59.92		
242.43	S	-68.18	-71.94	5.45	-1.68	-13.00	-55.18		
428.67	S	-68.53	-72.44	6.07	-2.16	-13.00	-55.53		
643.04	S	-65.74	-69.12	6.05	-2.67	-13.00	-52.74		
769.14	S	-56.31	-59.28	5.85	-2.89	-13.00	-43.31		
949.56	S	-64.17	-66.32	5.49	-3.34	-13.00	-51.17		
3819.60	Н	-42.30	-44.59	9.20	-6.90	-13.00	-29.30		
5729.40	Н	-48.35	-50.31	10.50	-8.54	-13.00	-35.35		
7639.20	Н	-46.23	-48.30	12.01	-9.94	-13.00	-33.23		
9549.00	Н								
11458.80	Н								
13368.60	Н								
15278.40	Н								
17188.20	Н								
19098.00	Н								

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

"F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency. Note :

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---": denotes Noise Floor.



-			ent Result: WC)			
Operation B	and	:WCDMA B2		t Date		:2014-11-20		
ARFCN Fundamenta	l Frequency	:CH 9262 :1852.4 MHz	Temp./Humi. Engineer			:23 deg_C / 58 RH :Tin		
Operation M	1 ·	:TX LOW	Eng	,111001		. 1 111		
EUT Pol.	1040	:H Plane	Mea	asurement Ante	enna Pol.	:VERTICAL		
Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin	
			Output Level	Gain	Loss			
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB	
31.94	S	-53.97	-41.44	-11.72	-0.80	-13.00	-40.97	
267.65	S	-70.93	-74.58	5.43	-1.77	-13.00	-57.93	
514.03	S	-68.61	-72.31	6.09	-2.39	-13.00	-55.61	
638.19	S	-64.49	-67.84	6.02	-2.67	-13.00	-51.49	
773.02	S	-50.71	-53.68	5.86	-2.90	-13.00	-37.71	
937.92	S	-63.42	-65.64	5.54	-3.32	-13.00	-50.42	
3704.80	Н	-55.15	-57.48	9.13	-6.80	-13.00	-42.15	
5557.20	Н							
7409.60	Н							
9262.00	Н							
11114.40	Н							
12966.80	Н							
14819.20	Н							
16671.60	Н							
40.50 4.00								

Dedicted Sources Emission Measurement Desults WCDMA II Mede

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

"F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency. Note :

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---": denotes Noise Floor.

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18524.00



Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 569 of 774

Operation Band ARFCN Fundamental Frequency Operation Mode		:WCDMA B2 :CH 9262 :1852.4 MHz :TX LOW	Test Date:2014-11-7Temp./Humi.:23 deg_CEngineer:Tin						
EUT Pol.	loue	:H Plane	М	Measurement Antenna Pol.			:HORIZONTAL		
Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin		
			Output Level	Gain	Loss				
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB		
88.20	S	-68.80	-69.14	1.50	-1.17	-13.00	-55.80		
249.22	S	-70.33	-74.11	5.48	-1.71	-13.00	-57.33		
407.33	S	-71.23	-75.29	6.14	-2.09	-13.00	-58.23		
579.02	S	-69.44	-72.77	5.89	-2.57	-13.00	-56.44		
644.98	S	-64.46	-67.85	6.06	-2.68	-13.00	-51.46		
773.02	S	-52.93	-55.89	5.86	-2.90	-13.00	-39.93		
3704.80	Н	-57.42	-59.74	9.13	-6.80	-13.00	-44.42		
5557.20	Н								
7409.60	Н								
9262.00	Н								
11114.40	Н								
12966.80	Н								
14819.20	Н								
16671.60	Н								
18524.00	Н								

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

"F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency. Note :

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---": denotes Noise Floor.



Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 570 of 774

Operation Band ARFCN Fundamental Frequency Operation Mode		:WCDMA B2 :CH 9400 :1880 MHz :TX MID	Test Date:2014-11-20Temp./Humi.:23 deg_C / 58Engineer:Tin				58 RH		
EUT Pol.	loue	:H Plane	М	Measurement Antenna Pol.			:VERTICAL		
Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin		
			Output Level	Gain	Loss				
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB		
31.94	S	-53.76	-41.23	-11.72	-0.80	-13.00	-40.76		
235.64	S	-72.00	-76.01	5.66	-1.66	-13.00	-59.00		
372.41	S	-71.66	-75.84	6.19	-2.02	-13.00	-58.66		
473.29	S	-70.96	-74.73	6.05	-2.28	-13.00	-57.96		
645.95	S	-64.72	-68.11	6.07	-2.68	-13.00	-51.72		
772.05	S	-51.25	-54.21	5.86	-2.89	-13.00	-38.25		
3760.00	Н	-54.23	-56.54	9.16	-6.85	-13.00	-41.23		
5640.00	Н								
7520.00	Н								
9400.00	Н								
11280.00	Н								
13160.00	Н								
15040.00	Н								
16920.00	Н								
18800.00	Н								

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

"F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency. Note :

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---": denotes Noise Floor.



Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 571 of 774

Operation Band ARFCN Fundamental Frequency Operation Mode		:WCDMA B2 :CH 9400 :1880 MHz :TX MID	Te	Test Date Temp./Humi. Engineer			:2014-11-20 :23 deg_C / 58 RH :Tin		
EUT Pol.	lode	:H Plane	Mo	Measurement Antenna Pol.			:HORIZONTAL		
Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin		
			Output Level	Gain	Loss				
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB		
88.20	S	-69.30	-69.63	1.50	-1.17	-13.00	-56.30		
287.05	S	-70.13	-73.83	5.53	-1.83	-13.00	-57.13		
516.94	S	-69.53	-73.21	6.08	-2.40	-13.00	-56.53		
593.57	S	-66.40	-69.62	5.82	-2.60	-13.00	-53.40		
771.08	S	-51.75	-54.72	5.86	-2.89	-13.00	-38.75		
936.95	S	-64.77	-67.00	5.54	-3.32	-13.00	-51.77		
3760.00	Н	-57.01	-59.32	9.16	-6.85	-13.00	-44.01		
5640.00	Н								
7520.00	Н								
9400.00	Н								
11280.00	Н								
13160.00	Н								
15040.00	Н								
16920.00	Н								
18800.00	Н								

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

"F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency. Note :

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---": denotes Noise Floor.



Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 572 of 774

Operation Band ARFCN Fundamental Frequency Operation Mode		:CH 9538 Ter		Test Date Temp./Humi. Engineer		:2014-11-20 :23 deg_C / 58 RH :Tin	
EUT Pol.	lode	:H Plane	М	Measurement Antenna Pol.			
Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
31.94	S	-53.86	-41.33	-11.72	-0.80	-13.00	-40.86
248.25	S	-70.29	-74.07	5.48	-1.70	-13.00	-57.29
408.30	S	-70.51	-74.55	6.14	-2.10	-13.00	-57.51
579.02	S	-67.82	-71.14	5.89	-2.57	-13.00	-54.82
773.02	S	-51.49	-54.45	5.86	-2.90	-13.00	-38.49
931.13	S	-64.10	-66.36	5.57	-3.31	-13.00	-51.10
3815.20	Н	-52.98	-55.28	9.19	-6.90	-13.00	-39.98
5722.80	Н						
7630.40	Н						
9538.00	Н						
11445.60	Н						
13353.20	Н						
15260.80	Н						
17168.40	Н						
19076.00	Н						

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

"F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency. Note :

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---": denotes Noise Floor.



Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 573 of 774

Operation Band ARFCN Fundamental Frequency Operation Mode		:WCDMA B2 :CH 9538 :1907.6 MHz :TX HIGH	Те	1			:2014-11-20 :23 deg_C / 58 RH :Tin	
EUT Pol.	lode	:H Plane	Μ	Measurement Antenna Pol.			ΓAL	
Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin	
			Output Level	Gain	Loss			
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB	
88.20	S	-69.66	-69.99	1.50	-1.17	-13.00	-56.66	
287.05	S	-69.54	-73.25	5.53	-1.83	-13.00	-56.54	
533.43	S	-69.90	-73.51	6.06	-2.45	-13.00	-56.90	
649.83	S	-65.05	-68.45	6.09	-2.68	-13.00	-52.05	
773.99	S	-52.61	-55.57	5.86	-2.90	-13.00	-39.61	
950.53	S	-63.90	-66.01	5.45	-3.34	-13.00	-50.90	
3815.20	Н	-54.64	-56.94	9.19	-6.90	-13.00	-41.64	
5722.80	Н							
7630.40	Н							
9538.00	Н							
11445.60	Н							
13353.20	Н							
15260.80	Н							
17168.40	Н							
19076.00	Н							

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

"F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency. Note :

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---": denotes Noise Floor.



Radiated Spurious Emission Measurement Result: WCDMA IV Mode									
Operation E	Band	:WCDMA B4		st Date		:2014-11-19			
ARFCN		:CH 1312	Temp./Humi.			:19.6 deg_C / 65 RH			
	al Frequency	:1712.4 MHz	Engineer			:Tin			
Operation N	Aode	:TX LOW							
EUT Pol.		:H Plane	Measurement Antenna Pol.			:VERTICAI			
Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin		
			Output Level	Gain	Loss				
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB		
35.82	S	-54.18	-42.58	-10.80	-0.80	-13.00	-41.18		
243.40	S	-71.78	-75.55	5.45	-1.68	-13.00	-58.78		
419.94	S	-70.36	-74.33	6.10	-2.13	-13.00	-57.36		
652.74	S	-65.16	-68.56	6.09	-2.69	-13.00	-52.16		
769.14	S	-53.82	-56.78	5.85	-2.89	-13.00	-40.82		
941.80	S	-64.92	-67.12	5.52	-3.32	-13.00	-51.92		
3424.80	Н	-55.93	-58.18	8.80	-6.55	-13.00	-42.93		
5137.20	Н								
6849.60	Н								
8562.00	Н								
10274.40	Н								
11986.80	Н								
13699.20	Н								
15411.60	Н								
17124.00	Н								

De Jiede J Constitution Francisco Marconstante Describe WCDMA IV Made

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

"F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency. Note :

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---": denotes Noise Floor.



Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 575 of 774

Operation Band ARFCN Fundamental Frequency Operation Mode		:WCDMA B4 :CH 1312 :1712.4 MHz :TX LOW	Te	Test Date Temp./Humi. Engineer			:2014-11-19 :19.6 deg_C / 65 RH :Tin		
EUT Pol.	Mode	:H Plane	М	Measurement Antenna Pol.			:HORIZONTAL		
Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin		
			Output Level	Gain	Loss				
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB		
88.20	S	-69.90	-70.23	1.50	-1.17	-13.00	-56.90		
253.10	S	-70.13	-73.85	5.44	-1.72	-13.00	-57.13		
377.26	S	-71.09	-75.25	6.19	-2.03	-13.00	-58.09		
589.69	S	-67.58	-70.83	5.84	-2.59	-13.00	-54.58		
771.08	S	-53.99	-56.95	5.86	-2.89	-13.00	-40.99		
958.29	S	-64.43	-66.08	5.00	-3.35	-13.00	-51.43		
3424.80	Н	-57.55	-59.80	8.80	-6.55	-13.00	-44.55		
5137.20	Н								
6849.60	Н								
8562.00	Н								
10274.40	Н								
11986.80	Н								
13699.20	Н								
15411.60	Н								
17124.00	Н								

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

"F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency. Note :

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---": denotes Noise Floor.



Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 576 of 774

Operation Band ARFCN Fundamental Frequency Operation Mode		:WCDMA B4 :CH 1413 :1732.6 MHz :TX MID	Test Date:2014-11-19Temp./Humi.:19.6 deg_CEngineer:Tin						
EUT Pol.	illi	:H Plane	Me	Measurement Antenna Pol.			:VERTICAL		
Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin		
			Output Level	Gain	Loss				
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB		
31.94	S	-53.26	-40.74	-11.72	-0.80	-13.00	-40.26		
247.28	S	-72.05	-75.82	5.47	-1.70	-13.00	-59.05		
527.61	S	-70.16	-73.80	6.07	-2.43	-13.00	-57.16		
649.83	S	-63.59	-66.99	6.09	-2.68	-13.00	-50.59		
771.08	S	-53.65	-56.62	5.86	-2.89	-13.00	-40.65		
948.59	S	-63.81	-65.97	5.49	-3.33	-13.00	-50.81		
3465.20	Н	-54.08	-56.40	8.91	-6.59	-13.00	-41.08		
5197.80	Н								
6930.40	Н								
8663.00	Н								
10395.60	Н								
12128.20	Н								
13860.80	Н								
15593.40	Н								
17326.00	Н								

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

"F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency. Note :

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---": denotes Noise Floor.



Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 577 of 774

Operation Band ARFCN Fundamental Frequency Operation Mode		:WCDMA B4 :CH 1413 :1732.6 MHz :TX MID	Temp./Humi. :19.6 deg_						
EUT Pol.	Aloue	:H Plane	Me	Measurement Antenna Pol.			:HORIZONTAL		
Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin		
			Output Level	Gain	Loss				
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB		
91.11	S	-70.07	-70.69	1.82	-1.20	-13.00	-57.07		
278.32	S	-70.28	-74.12	5.64	-1.80	-13.00	-57.28		
344.28	S	-71.03	-75.24	6.18	-1.97	-13.00	-58.03		
524.70	S	-69.26	-72.91	6.07	-2.42	-13.00	-56.26		
649.83	S	-65.14	-68.55	6.09	-2.68	-13.00	-52.14		
773.02	S	-52.40	-55.37	5.86	-2.90	-13.00	-39.40		
3465.20	Н	-54.03	-56.36	8.91	-6.59	-13.00	-41.03		
5197.80	Н								
6930.40	Н								
8663.00	Н								
10395.60	Н								
12128.20	Н								
13860.80	Н								
15593.40	Н								
17326.00	Н								

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

"F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency. Note :

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---": denotes Noise Floor.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>www.sgs.com/terms and conditions.htm</u> and, for elec-tronic format documents, subject to Terms and Conditions for Electronic Documents at <u>www.sgs.com/terms e-document.htm</u>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 578 of 774

Operation Band ARFCN Fundamental Frequency Operation Mode		:WCDMA B4 :CH 1513 :1752.6 MHz :TX HIGH				0	6 deg_C / 65 RH	
EUT Pol.	node	:H Plane	М	Measurement Antenna Pol.				
Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin	
			Output Level	Gain	Loss			
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB	
34.85	S	-54.29	-42.46	-11.02	-0.80	-13.00	-41.29	
246.31	S	-70.80	-74.58	5.47	-1.69	-13.00	-57.80	
388.90	S	-71.37	-75.50	6.18	-2.05	-13.00	-58.37	
570.29	S	-69.07	-72.46	5.94	-2.54	-13.00	-56.07	
770.11	S	-53.91	-56.87	5.86	-2.89	-13.00	-40.91	
937.92	S	-64.39	-66.61	5.54	-3.32	-13.00	-51.39	
3505.20	Н	-55.14	-57.52	9.00	-6.62	-13.00	-42.14	
5257.80	Н							
7010.40	Н							
8763.00	Н							
10515.60	Н							
12268.20	Н							
14020.80	Н							
15773.40	Н							
17526.00	Н							

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

"F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency. Note :

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---": denotes Noise Floor.



Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 579 of 774

Operation Band ARFCN Fundamental Frequency Operation Mode		:WCDMA B4 :CH 1513 :1752.6 MHz :TX HIGH	Test Date Temp./Humi. Engineer			:2014-11-19 :19.6 deg_C / 65 RH :Tin	
EUT Pol.	Aloue	:H Plane	М	easurement Ante	:HORIZONTAL		
Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
87.23	S	-69.48	-69.61	1.27	-1.15	-13.00	-56.48
287.05	S	-70.04	-73.75	5.53	-1.83	-13.00	-57.04
591.63	S	-67.50	-70.73	5.83	-2.60	-13.00	-54.50
696.39	S	-64.74	-68.04	6.04	-2.74	-13.00	-51.74
772.05	S	-53.00	-55.96	5.86	-2.89	-13.00	-40.00
935.98	S	-65.26	-67.50	5.55	-3.32	-13.00	-52.26
3505.20	Н	-56.06	-58.44	9.00	-6.62	-13.00	-43.06
5257.80	Н						
7010.40	Н						
8763.00	Н						
10515.60	Н						
12268.20	Н						
14020.80	Н						
15773.40	Н						
17526.00	Н						

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

"F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency. Note :

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---": denotes Noise Floor.



Radiated Spurious EmisOperation BandARFCNFundamental FrequencyOperation ModeEUT Pol.		:WCDMA B5 :CH 4132 :826.4 MHz :TX LOW :H Plane	nent Result: WCDMA V Mode Test Date Temp./Humi. Engineer Measurement Antenna Pol.			:2014-11-29 :23 deg_C / 56 RH :Curry :VERTICAL		
Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin	
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB	
	G	57.10	41.02	14.20	0.00	12.00	44.10	
30.00	S	-57.10	-41.93	-14.38	-0.80	-13.00	-44.10	
245.34	S	-74.10	-75.72	3.31	-1.69	-13.00	-61.10	
307.42	S	-72.71	-74.60	3.78	-1.89	-13.00	-59.71	
597.45	S	-70.01	-71.05	3.65	-2.61	-13.00	-57.01	
772.05	S	-56.87	-57.68	3.71	-2.89	-13.00	-43.87	
921.43	S	-67.25	-67.42	3.46	-3.29	-13.00	-54.25	
1652.80	Н	-62.87	-61.99	3.55	-4.42	-13.00	-49.87	
2479.20	Н							
3305.60	Н							
4132.00	Н							
4958.40	Н							
5784.80	Н							
6611.20	Н							
7437.60	Н							
8264.00	Н							

Dedicted Sources Emission Measurement Desults WCDMA V Mede

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

"F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency. Note :

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---": denotes Noise Floor.



Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 581 of 774

Operation Band ARFCN Fundamental Frequency Operation Mode		:WCDMA B5 :CH 4132 :826.4 MHz :TX LOW	Test Date Temp./Humi. Engineer			:2014-11-29 :23 deg_C / 56 RH :Curry	
EUT Pol.	loue	:H Plane	Μ	easurement Ante	ntenna Pol. :HORIZONTAL		
Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
90.14	S	-69.92	-68.47	-0.25	-1.20	-13.00	-56.92
240.49	S	-68.90	-70.51	3.29	-1.67	-13.00	-55.90
464.56	S	-72.44	-74.06	3.88	-2.26	-13.00	-59.44
647.89	S	-66.45	-67.70	3.93	-2.68	-13.00	-53.45
769.14	S	-57.58	-58.39	3.70	-2.89	-13.00	-44.58
955.38	S	-66.72	-66.39	3.02	-3.35	-13.00	-53.72
1652.80	Н	-64.29	-63.41	3.55	-4.42	-13.00	-51.29
2479.20	Н						
3305.60	Н						
4132.00	Н						
4958.40	Н						
5784.80	Н						
6611.20	Н						
7437.60	Н						
8264.00	Н						

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

"F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency. Note :

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---": denotes Noise Floor.



Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 582 of 774

Operation Band ARFCN Fundamental Frequency Operation Mode		:WCDMA B5 :CH 4183 :836.6 MHz :TX MID	Test Date Temp./Humi. Engineer			:2014-11-29 :23 deg_C / 56 RH :Curry	
EUT Pol.	loue	:H Plane	Me	Measurement Antenna Pol.			_
Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
32.91	S	-55.63	-41.20	-13.63	-0.80	-13.00	-42.63
86.26	S	-70.48	-68.24	-1.11	-1.13	-13.00	-57.48
288.99	S	-73.26	-74.77	3.35	-1.84	-13.00	-60.26
639.16	S	-67.05	-68.25	3.88	-2.67	-13.00	-54.05
771.08	S	-53.69	-54.51	3.71	-2.89	-13.00	-40.69
937.92	S	-66.43	-66.50	3.39	-3.32	-13.00	-53.43
1673.20	Н	-63.10	-62.14	3.49	-4.45	-13.00	-50.10
2509.80	Н						
3346.40	Н						
4183.00	Н						
5019.60	Н						
5856.20	Н						
6692.80	Н						
7529.40	Н						
8366.00	Н						

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

"F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency. Note :

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---": denotes Noise Floor.



Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 583 of 774

Operation Band ARFCN Fundamental Frequency Operation Mode		:WCDMA B5 :CH 4183 :836.6 MHz :TX MID	Test Date Temp./Humi. Engineer			:2014-11-29 :23 deg_C / 56 RH :Curry		
EUT Pol.	loue	:H Plane	Measurement Antenna			:HORIZONTAL		
Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin	
			Output Level	Gain	Loss			
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB	
90.14	S	-69.77	-68.32	-0.25	-1.20	-13.00	-56.77	
243.40	S	-69.08	-70.70	3.30	-1.68	-13.00	-56.08	
392.78	S	-73.48	-75.45	4.03	-2.06	-13.00	-60.48	
600.36	S	-68.56	-69.59	3.65	-2.62	-13.00	-55.56	
773.99	S	-56.51	-57.32	3.71	-2.90	-13.00	-43.51	
948.59	S	-66.10	-66.11	3.34	-3.33	-13.00	-53.10	
1673.20	Н	-65.30	-64.34	3.49	-4.45	-13.00	-52.30	
2509.80	Н							
3346.40	Н							
4183.00	Н							
5019.60	Н							
5856.20	Н							
6692.80	Н							
7529.40	Н							
8366.00	Н							

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

"F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency. Note :

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---": denotes Noise Floor.



Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 584 of 774

Operation Band ARFCN Fundamental Frequency Operation Mode		:WCDMA B5 :CH 4233 :846.6 MHz :TX HIGH	Test Date Temp./Humi. Engineer			:2014-11-29 :23 deg_C / 56 RH :Curry	
EUT Pol.	loue	:H Plane	М	easurement Ante	tenna Pol. :VERTICAL		
Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
35.82	S	-56.32	-42.56	-12.95	-0.80	-13.00	-43.32
266.68	S	-72.26	-73.76	3.27	-1.77	-13.00	-59.26
455.83	S	-71.90	-73.52	3.86	-2.23	-13.00	-58.90
692.51	S	-66.02	-67.18	3.89	-2.73	-13.00	-53.02
771.08	S	-53.26	-54.07	3.71	-2.89	-13.00	-40.26
937.92	S	-66.76	-66.83	3.39	-3.32	-13.00	-53.76
1693.20	Н	-62.19	-61.16	3.44	-4.48	-13.00	-49.19
2539.80	Н						
3386.40	Н						
4233.00	Н						
5079.60	Н						
5926.20	Н						
6772.80	Н						
7619.40	Н						
8466.00	Н						

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

"F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency. Note :

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---": denotes Noise Floor.



Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 585 of 774

Operation Band ARFCN Fundamental Frequency Operation Mode		:WCDMA B5 :CH 4233 :846.6 MHz :TX HIGH	Test Date Temp./Humi. Engineer			:2014-11-29 :23 deg_C / 56 RH :Curry	
EUT Pol.	loue	:H Plane	Me	Measurement Antenna Pol.			ΓAL
Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Level	Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
89.17	S	-69.91	-68.30	-0.43	-1.18	-13.00	-56.91
241.46	S	-69.16	-70.77	3.29	-1.68	-13.00	-56.16
445.16	S	-71.05	-72.70	3.86	-2.20	-13.00	-58.05
598.42	S	-68.58	-69.62	3.65	-2.62	-13.00	-55.58
769.14	S	-55.50	-56.31	3.70	-2.89	-13.00	-42.50
906.88	S	-66.64	-66.90	3.53	-3.27	-13.00	-53.64
1693.20	Н	-63.56	-62.53	3.44	-4.48	-13.00	-50.56
2539.80	Н						
3386.40	Н						
4233.00	Н						
5079.60	Н						
5926.20	Н						
6772.80	Н						
7619.40	Н						
8466.00	Н						

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

"F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency. Note :

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---": denotes Noise Floor.



Radiated Spurious Emission Measurement ResultOperation Band:LTE B2				t: 1.4MHz BW LTE-Band 2(The Worst Case) Test Date :2014-11-20				
ARFCN	Juna	:CH 18607	140015	Temp./Humi.		:23 deg_C /		
Fundamenta	al Frequency	16QAM BW :1850.7 MHz		Engineer		:Tin		
Operation Mode EUT Pol.		:TX LOW		Measurement Ante	enna Pol.	:VERTICAL		
Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin	
			Output Lev	el Gain	Loss			
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB	
32.91	S	-54.30	-39.86	-13.63	-0.80	-13.00	-41.30	
251.16	S	-73.47	-75.08	3.32	-1.71	-13.00	-60.47	
316.15	S	-71.40	-73.33	3.84	-1.91	-13.00	-58.40	
556.71	S	-72.13	-73.48	3.85	-2.51	-13.00	-59.13	
772.05	S	-57.11	-57.92	3.71	-2.89	-13.00	-44.11	
937.92	S	-66.35	-66.42	3.39	-3.32	-13.00	-53.35	
3701.40	Н	-52.84	-55.17	9.13	-6.80	-13.00	-39.84	
5552.10	Н							
7402.80	Н	-47.13	-49.14	11.81	-9.79	-13.00	-34.13	
9253.50	Н							
11104.20	Н							
12954.90	Н							
14805.60	Н							
16656.30	Н							
18507.00	Н							

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

"F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency. Note :

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---": denotes Noise Floor.



Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 587 of 774

Operation Band		:LTE B2		Test Date		:2014-11-20	
ARFCN		:CH 18607 16QAM BW	14RB15	Temp./Humi.		:23 deg_C / 58 RH	
Fundamental Frequency		:1850.7 MHz		Engineer		:Tin	
Operation Mode		:TX LOW					T A I
EUT Pol.		:E1 Plane		Measurement Ar	itenna Pol.	:HORIZON	IAL
Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
- 1			Output Lev		Loss		
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
89.17	S	-70.78	-69.17	-0.43	-1.18	-13.00	-57.78
281.23	S	-72.28	-73.96	3.50	-1.81	-13.00	-59.28
533.43	S	-72.14	-73.61	3.91	-2.45	-13.00	-59.14
658.56	S	-66.54	-67.78	3.93	-2.69	-13.00	-53.54
773.02	S	-57.49	-58.30	3.71	-2.90	-13.00	-44.49
941.80	S	-65.22	-65.26	3.37	-3.32	-13.00	-52.22
3701.40	Н	-55.74	-58.06	9.13	-6.80	-13.00	-42.74
5552.10	Н						
7402.80	Н	-51.18	-53.20	11.81	-9.79	-13.00	-38.18
9253.50	Н						
11104.20	Н						
12954.90	Н						
14805.60	Н						
16656.30	Н						
18507.00	Н						

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

"F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency. Note :

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---": denotes Noise Floor.



Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 588 of 774

Operation Band		:LTE B2		Test Date		:2014-11-20		
ARFCN		:CH 18900 16QAM BW 1.4 RB 1 5		Temp./Humi.		:23 deg_C /	58 RH	
Fundament	al Frequency	:1880 MHz	1.4 KD 1 5	Engineer		:Tin		
Operation Mode EUT Pol.		:TX MID :E1 Plane		Measurement Ant	enna Pol.	:VERTICAI	<u>_</u>	
Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin	
			Output Lev	vel Gain	Loss			
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB	
31.94	S	-55.39	-40.72	-13.87	-0.80	-13.00	-42.39	
255.04	S	-73.20	-74.74	3.26	-1.73	-13.00	-60.20	
315.18	S	-72.01	-73.93	3.83	-1.90	-13.00	-59.01	
547.01	S	-71.86	-73.27	3.89	-2.48	-13.00	-58.86	
773.02	S	-56.48	-57.29	3.71	-2.90	-13.00	-43.48	
895.24	S	-66.83	-67.17	3.58	-3.25	-13.00	-53.83	
3760.00	Н	-55.23	-57.54	9.16	-6.85	-13.00	-42.23	
5640.00	Н							
7520.00	Н	-47.55	-49.60	11.92	-9.87	-13.00	-34.55	
9400.00	Н							
11280.00	Н							
13160.00	Н							
15040.00	Н							
16920.00	Н							
18800.00	Н							

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

"F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency. Note :

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---": denotes Noise Floor.



Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 589 of 774

Operation Band		:LTE B2		Test Date		:2014-11-20	
ARFCN		:CH 18900 16QAM BW 1.4 RB 1 5		Temp./Humi.		:23 deg_C /	58 RH
Fundamental Frequency		:1880 MHz		Engineer		:Tin	
Operation Mode EUT Pol.		:TX MID :E1 Plane		Measurement A	Antenna Pol.	:HORIZON	TAL
Freq.	Note	EIRP	SG	Antenna	a Cable	Limit	Margin
			Output Lev	vel Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
88.20	S	-70.89	-69.08	-0.65	-1.17	-13.00	-57.89
287.05	S	-72.16	-73.71	3.38	-1.83	-13.00	-59.16
528.58	S	-71.22	-72.70	3.92	-2.43	-13.00	-58.22
681.84	S	-67.34	-68.52	3.90	-2.72	-13.00	-54.34
772.05	S	-54.35	-55.17	3.71	-2.89	-13.00	-41.35
941.80	S	-67.08	-67.13	3.37	-3.32	-13.00	-54.08
3760.00	Н	-56.22	-58.54	9.16	-6.85	-13.00	-43.22
5640.00	Н						
7520.00	Н	-49.60	-51.65	11.92	-9.87	-13.00	-36.60
9400.00	Н						
11280.00	Н						
13160.00	Н						
15040.00	Н						
16920.00	Н						
18800.00	Н						

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

"F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency. Note :

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---": denotes Noise Floor.



Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 590 of 774

Operation Band		:LTE B2		Test Date			:2014-11-20		
ARFCN		:CH 19193 160 AM BW	1/RR15	Tem	o./Humi.		:23 deg_C /	58 RH	
Fundamenta	al Frequency	16QAM BW 1.4 RB 1 5 :1909.3 MHz		Engi	neer		:Tin		
Operation Mode EUT Pol.		:TX HIGH :E1 Plane		Meas	surement Ante	nna Pol.	:VERTICAL		
Freq.	Note	EIRP	SG		Antenna	Cable	Limit	Margin	
			Output Lev	vel	Gain	Loss			
MHz	F/H/E/S	dBm	dBm		dBi	dB	dBm	dB	
32.91	S	-57.30	-42.87		-13.63	-0.80	-13.00	-44.30	
246.31	S	-73.05	-74.68		3.32	-1.69	-13.00	-60.05	
316.15	S	-73.00	-74.93		3.84	-1.91	-13.00	-60.00	
530.52	S	-71.01	-72.49		3.91	-2.44	-13.00	-58.01	
772.05	S	-52.40	-53.21		3.71	-2.89	-13.00	-39.40	
947.62	S	-65.45	-65.46		3.35	-3.33	-13.00	-52.45	
3818.60	Н	-49.83	-52.12		9.20	-6.90	-13.00	-36.83	
5727.90	Н								
7637.20	Н								
9546.50	Н								
11455.80	Н								
13365.10	Н								
15274.40	Н								
17183.70	Н								
19093.00	Н								

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

"F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency. Note :

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---": denotes Noise Floor.



Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 591 of 774

Operation Band		:LTE B2		Test Date		:2014-11-20		
ARFCN		:CH 19193 16QAM BW	14 RR 15	Temp./Humi.		:23 deg_C /	58 RH	
Fundamental Frequency Operation Mode EUT Pol.		:1909.3 MHz :TX HIGH :E1 Plane		Engineer		:Tin :HORIZONTAL		
				Measurement An	tenna Pol.			
Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin	
			Output Lev	vel Gain	Loss			
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB	
89.17	S	-70.32	-68.71	-0.43	-1.18	-13.00	-57.32	
256.01	S	-71.05	-72.57	3.24	-1.73	-13.00	-58.05	
465.53	S	-72.93	-74.55	3.88	-2.26	-13.00	-59.93	
648.86	S	-66.73	-67.98	3.93	-2.68	-13.00	-53.73	
772.05	S	-54.01	-54.83	3.71	-2.89	-13.00	-41.01	
920.46	S	-66.82	-66.99	3.47	-3.29	-13.00	-53.82	
3818.60	Н	-53.13	-55.43	9.20	-6.90	-13.00	-40.13	
5727.90	Н							
7637.20	Н							
9546.50	Н							
11455.80	Н							
13365.10	Н							
15274.40	Н							
17183.70	Н							
19093.00	Н							

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

"F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency. Note :

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---": denotes Noise Floor.



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Radiated Spurious Emi Operation Band		ssion Measurement Result: :LTE B4		3MHz BW LTE-B Test Date	and 4(The	e Worst Case) :2014-11-20	
ARFCN		:CH 19965 16QAM BW 3	3 RB 1 0	Temp./Humi.		:23 deg_C / 58 RH	
Fundamenta Operation M	1 2	:1711.5 MHz :TX LOW		Engineer		:Tin	
EUT Pol.		:E1 Plane		Measurement Ante	nna Pol.	:VERTICAL	-
Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Safe
			Output Leve	el Gain	Loss		Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
36.79	S	-54.39	-43.00	-10.59	-0.80	-13.00	-41.39
248.25	S	-71.35	-75.13	5.48	-1.70	-13.00	-58.35
411.21	S	-71.52	-75.55	6.13	-2.10	-13.00	-58.52
606.18	S	-66.91	-70.12	5.83	-2.63	-13.00	-53.91
772.05	S	-49.93	-52.90	5.86	-2.89	-13.00	-36.93
970.90	S	-64.95	-65.85	4.26	-3.37	-13.00	-51.95
3423.00	Н	-43.03	-45.28	8.80	-6.54	-13.00	-30.03
5134.50	Н						
6846.00	Н	-37.50	-39.36	11.22	-9.36	-13.00	-24.50
8557.50	Н						
10269.00	Н						
11980.50	Н						
13692.00	Н						
15403.50	Н						
17115.00	Н						

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---": denotes Noise Floor.



Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 593 of 774

Operation Band		:LTE B4		Test Date		:2014-11-20		
ARFCN		:CH 19965 16QAM BW	3 R R 1 ()	Temp./Humi.		:23 deg_C /	58 RH	
Fundamental Frequency		:1711.5 MHz :TX LOW		Engineer		:Tin		
Operation Mode EUT Pol.		:E1 Plane		Measurement Ante	enna Pol.	:HORIZONTAL		
Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin	
			Output Lev	el Gain	Loss			
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB	
90.14	S	-67.12	-67.82	1.90	-1.20	-13.00	-54.12	
277.35	S	-69.93	-73.75	5.62	-1.80	-13.00	-56.93	
520.82	S	-69.61	-73.28	6.08	-2.41	-13.00	-56.61	
650.80	S	-64.32	-67.73	6.09	-2.68	-13.00	-51.32	
773.02	S	-51.82	-54.78	5.86	-2.90	-13.00	-38.82	
951.50	S	-64.21	-66.27	5.40	-3.34	-13.00	-51.21	
3423.00	Н	-49.12	-51.37	8.80	-6.54	-13.00	-36.12	
5134.50	Н							
6846.00	Н	-44.75	-46.62	11.22	-9.36	-13.00	-31.75	
8557.50	Н							
10269.00	Н							
11980.50	Н							
13692.00	Н							
15403.50	Н							
17115.00	Н							

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

"F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency. Note :

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---": denotes Noise Floor.



Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 594 of 774

Operation Band		:LTE B4		Test Date		:2014-11-20	
ARFCN		:CH 20175 16QAM BW	3 R B 1 0	Temp./Humi.		:23 deg_C /	58 RH
Fundamental Frequency		:1732.5 MHz		Engineer		:Tin	
Operation Mode EUT Pol.		:TX MID :E1 Plane		Measurement Ant	enna Pol.	:VERTICAL	<u>_</u>
Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Lev	vel Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
31.94	S	-52.33	-39.81	-11.72	-0.80	-13.00	-39.33
298.69	S	-68.92	-72.87	5.82	-1.87	-13.00	-55.92
471.35	S	-70.40	-74.17	6.04	-2.28	-13.00	-57.40
642.07	S	-64.02	-67.39	6.04	-2.67	-13.00	-51.02
769.14	S	-51.67	-54.63	5.85	-2.89	-13.00	-38.67
942.77	S	-64.05	-66.24	5.52	-3.33	-13.00	-51.05
3465.00	Н	-45.30	-47.62	8.91	-6.59	-13.00	-32.30
5197.50	Н						
6930.00	Н	-41.77	-43.67	11.32	-9.42	-13.00	-28.77
8662.50	Н						
10395.00	Н						
12127.50	Н						
13860.00	Н						
15592.50	Н						
17325.00	Н						

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

"F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency. Note :

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---": denotes Noise Floor.



Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 595 of 774

Operation Band		:LTE B4		Test Date		:2014-11-20	
ARFCN		:CH 20175 16QAM BW	3 RB 1 0	Temp./Humi.		:23 deg_C / 58 RH	
Fundamental Frequency		:1732.5 MHz		Engineer		:Tin	
Operation N EUT Pol.	Aode	:TX MID :E1 Plane		Measurement Ant	anna Dal	:HORIZON'	тат
EU I POI.		.EI Flaile		Measurement Ant	enna Poi.	.HUKIZUN	IAL
Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
1			Output Lev	vel Gain	Loss		C
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
90.14	S	-67.60	-68.30	1.90	-1.20	-13.00	-54.60
250.19	S	-69.11	-72.89	5.49	-1.71	-13.00	-56.11
521.79	S	-69.82	-73.49	6.08	-2.41	-13.00	-56.82
675.05	S	-64.17	-67.52	6.06	-2.71	-13.00	-51.17
773.02	S	-50.79	-53.75	5.86	-2.90	-13.00	-37.79
937.92	S	-65.02	-67.24	5.54	-3.32	-13.00	-52.02
3465.00	Н	-49.56	-51.88	8.91	-6.59	-13.00	-36.56
5197.50	Н						
6930.00	Н	-45.44	-47.34	11.32	-9.42	-13.00	-32.44
8662.50	Н						
10395.00	Н						
12127.50	Н						
13860.00	Н						
15592.50	Н						
17325.00	Н						

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

"F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency. Note :

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---": denotes Noise Floor.



Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 596 of 774

Operation Band		:LTE B4		Test Date		:2014-11-20	
ARFCN		:CH 20385 16QAM BW 3 RB 1 0		Temp./Hum	i.	:23 deg_C /	58 RH
Fundamental Frequency Operation Mode EUT Pol.		:1753.5 MHz :TX HIGH :E1 Plane		Engineer		:Tin	
				Measuremen	nt Antenna Pol.	:VERTICAL	
Freq.	Note	EIRP	SG	Ante	enna Cable	Limit	Margin
			Output Lev	vel Ga	in Loss		
MHz	F/H/E/S	dBm	dBm	dE	Bi dB	dBm	dB
32.91	S	-51.61	-39.32	-11.	-0.80	-13.00	-38.61
179.38	S	-73.12	-74.79	3.1	4 -1.46	-13.00	-60.12
378.23	S	-71.57	-75.73	6.1	-2.03	-13.00	-58.57
637.22	S	-64.98	-68.33	6.0	-2.67	-13.00	-51.98
773.99	S	-52.60	-55.57	5.8	-2.90	-13.00	-39.60
939.86	S	-65.01	-67.21	5.5	-3.32	-13.00	-52.01
3507.00	Н	-42.79	-45.17	9.0	-6.63	-13.00	-29.79
5260.50	Н						
7014.00	Н	-40.83	-42.76	11.4	41 -9.48	-13.00	-27.83
8767.50	Н						
10521.00	Н						
12274.50	Н						
14028.00	Н						
15781.50	Н						

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

"F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency. Note :

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---": denotes Noise Floor.

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Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 597 of 774

Operation Band		:LTE B4		Test Date			:2014-11-20	
ARFCN		:CH 20385 16QAM BW 3 RB 1 0 :1753.5 MHz		Tem	p./Humi.		:23 deg_C / 58 RH	
Fundamental Frequency Operation Mode				Engineer			:Tin	
Operation I EUT Pol.	Mode	:TX HIGH :E1 Plane			Measurement Antenna Pol.		:HORIZONTAL	
Freq.	Note	EIRP	SG		Antenna	Cable	Limit	Margin
			Output Le	vel	Gain	Loss		
MHz	F/H/E/S	dBm	dBm		dBi	dB	dBm	dB
89.17	S	-67.94	-68.48		1.72	-1.18	-13.00	-54.94

89.17	S	-67.94	-68.48	1.72	-1.18	-13.00	-54.94	
282.20	S	-69.54	-73.35	5.63	-1.82	-13.00	-56.54	
521.79	S	-69.71	-73.38	6.08	-2.41	-13.00	-56.71	
636.25	S	-65.49	-68.84	6.01	-2.67	-13.00	-52.49	
770.11	S	-54.30	-57.27	5.86	-2.89	-13.00	-41.30	
935.01	S	-64.35	-66.58	5.55	-3.31	-13.00	-51.35	
3507.00	Н	-48.57	-50.94	9.00	-6.63	-13.00	-35.57	
5260.50	Н							
7014.00	Н	-45.14	-47.07	11.41	-9.48	-13.00	-32.14	
8767.50	Н							
10521.00	Н							
12274.50	Н							

14028.00 Η 15781.50 Η 17535.00 Η ___

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

"F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency. Note :

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---": denotes Noise Floor.



Radiated S Operation B		sion Measurement Result: :LTE B5		10MHz BW LTE Test Date	Band 5(Tl	he Worst Case) :2014-11-29	
ARFCN		:CH 20450 16QAM BW	10 RB 1 0	Temp./Humi.		:23 deg_C /	58 RH
Fundamenta Operation M	1 2	:829 MHz :TX LOW	10 10 10	Engineer		:Tin	
EUT Pol.		:H Plane		Measurement Ant	enna Pol.	:VERTICAI	
Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Lev	el Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
32.91	S	-52.01	-37.57	-13.63	-0.80	-13.00	-39.01
88.20	S	-60.97	-59.16	-0.65	-1.17	-13.00	-47.97
325.85	S	-70.37	-72.35	3.90	-1.93	-13.00	-57.37
531.49	S	-71.40	-72.87	3.91	-2.44	-13.00	-58.40
697.36	S	-65.21	-66.35	3.88	-2.74	-13.00	-52.21
953.44	S	-65.19	-64.98	3.13	-3.34	-13.00	-52.19
1658.00	Н	-62.05	-61.15	3.53	-4.43	-13.00	-49.05
2487.00	Н						
3316.00	Н						
4145.00	Н						
4974.00	Н						
5803.00	Н						
6632.00	Н						
7461.00	Н						
8290.00	Н						

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

"F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency. Note :

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---": denotes Noise Floor.



Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 599 of 774

Operation Band		:LTE B5		Test Date		:2014-11-29		
ARFCN		:CH 20450 16QAM BW 10 RB 1 0		Temp./Humi.		:23 deg_C /	58 RH	
Fundamental Frequency Operation Mode		:829 MHz :TX LOW	10 KB 1 0	Engineer		:Tin		
EUT Pol.		:H Plane		Measurement An	tenna Pol.	:HORIZON	TAL	
Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin	
			Output Lev	vel Gain	Loss			
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB	
36.79	S	-54.57	-41.03	-12.74	-0.80	-13.00	-41.57	
88.20	S	-66.36	-64.54	-0.65	-1.17	-13.00	-53.36	
207.51	S	-70.32	-72.60	3.82	-1.54	-13.00	-57.32	
427.70	S	-70.51	-72.27	3.92	-2.15	-13.00	-57.51	
773.02	S	-67.97	-68.79	3.71	-2.90	-13.00	-54.97	
949.56	S	-65.77	-65.77	3.34	-3.34	-13.00	-52.77	
1658.00	Н	-64.60	-63.70	3.53	-4.43	-13.00	-51.60	
2487.00	Н							
3316.00	Н							
4145.00	Н							
4974.00	Н							
5803.00	Н							
6632.00	Н							
7461.00	Н							
8290.00	Н							

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

"F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency. Note :

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---": denotes Noise Floor.



Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 600 of 774

ARFCN :CH 20525 16QAM BW 10 RB 1 0 Operation Mode Temp./Humi. :23 deg_C / 58 RH Fundamental Frequency :836.5 MHz Engineer :Tin Pertation Mode :TX MID Measurement Antenna Pol. :VERTICAL Freq. Note ERP SG Antenna Cable Limit Margin 0utput Level Gain Loss Loss Margin dBm dB dB dB dB dB 48.87 30.00 S -51.71 -36.54 -14.38 -0.80 -13.00 -38.71 88.20 S -61.87 -60.05 -0.65 -1.17 -13.00 -48.87 344.28 S -69.21 -70.34 3.71 -2.58 -13.00 -56.21 690.57 S -65.09 -61.40 3.49 -4.45 -13.00 -52.97 949.56 S -65.09 -61.40 3.49 -4.45 -13.00 -93.66 2509.50 H	Operation Band		:LTE B5		Test Date			:2014-11-29		
Fundamental Frequency $:83 \ { m S.5}$ MHz Engineer :Tin Operation Mode :TX MID Measurement Antenna Pol. :VERTICAL Freq. Note ERP SG Antenna Cable Limit Margin MHz F/H/E/S dBm dBm dBd dB dBm dB 30.00 S -51.71 -36.54 -14.38 -0.80 -13.00 -38.71 88.20 S -61.87 -60.05 -0.65 -1.17 -13.00 -48.87 344.28 S -71.60 -73.66 4.03 -1.97 -13.00 -56.21 690.57 S -65.97 -67.13 3.89 -2.73 -13.00 -52.97 949.56 S -65.09 -61.40 3.49 -4.45 -13.00 -49.36 2509.50 H <td< td=""><td>ARFCN</td><td></td><td colspan="2" rowspan="2">16QAM BW 10 RB 1 0</td><td>Temp.</td><td>/Humi.</td><td></td><td>:23 deg_C /</td><td>58 RH</td></td<>	ARFCN		16QAM BW 10 RB 1 0		Temp.	/Humi.		:23 deg_C /	58 RH	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Fundamenta	l Frequency			Engine	eer		:Tin		
MHz F/H/E/S dBm dBm dBd dBd dB dBm dB 30.00 S -51.71 -36.54 -14.38 -0.80 -13.00 -38.71 88.20 S -61.87 -60.05 -0.65 -1.17 -13.00 -48.87 344.28 S -71.60 -73.66 4.03 -1.97 -13.00 -58.60 584.84 S -69.21 -70.34 3.71 -2.58 -13.00 -52.97 949.56 S -65.09 -67.13 3.89 -2.73 -13.00 -52.97 949.56 S -65.09 -65.09 3.34 -3.34 -13.00 -49.36 2509.50 H <		Iode			Measurement Antenna Pol.			:VERTICAL		
MHz F/H/E/S dBm dBm dBd dB dBm dB 30.00 S -51.71 -36.54 -14.38 -0.80 -13.00 -38.71 88.20 S -61.87 -60.05 -0.65 -1.17 -13.00 -48.87 344.28 S -71.60 -73.66 4.03 -1.97 -13.00 -58.60 584.84 S -69.21 -70.34 3.71 -2.58 -13.00 -56.21 690.57 S -65.97 -67.13 3.89 -2.73 -13.00 -52.97 949.56 S -65.09 -65.09 3.34 -3.34 -13.00 -52.09 1673.00 H -62.36 -61.40 3.49 -4.45 -13.00 -49.36 2509.50 H	Freq.	Note	ERP	SG		Antenna	Cable	Limit	Margin	
30.00 S -51.71 -36.54 -14.38 -0.80 -13.00 -38.71 88.20 S -61.87 -60.05 -0.65 -1.17 -13.00 -48.87 344.28 S -71.60 -73.66 4.03 -1.97 -13.00 -58.60 584.84 S -69.21 -70.34 3.71 -2.58 -13.00 -56.21 690.57 S -65.97 -67.13 3.89 -2.73 -13.00 -52.97 949.56 S -65.09 -65.09 3.34 -3.34 -13.00 -52.97 949.56 S -65.09 -61.40 3.49 -4.45 -13.00 -49.36 2509.50 H 3346.00 H 5019.00 H 5855.50 H 7528.50				Output Lev	vel	Gain	Loss			
88.20S-61.87-60.05-0.65-1.17-13.00-48.87344.28S-71.60-73.664.03-1.97-13.00-58.60584.84S-69.21-70.343.71-2.58-13.00-56.21690.57S-65.97-67.133.89-2.73-13.00-52.97949.56S-65.09-65.093.34-3.34-13.00-52.091673.00H-62.36-61.403.49-4.45-13.00-49.362509.50H3346.00H5019.00H5855.50H6692.00H7528.50H	MHz	F/H/E/S	dBm	dBm		dBd	dB	dBm	dB	
88.20S-61.87-60.05-0.65-1.17-13.00-48.87344.28S-71.60-73.664.03-1.97-13.00-58.60584.84S-69.21-70.343.71-2.58-13.00-56.21690.57S-65.97-67.133.89-2.73-13.00-52.97949.56S-65.09-65.093.34-3.34-13.00-52.091673.00H-62.36-61.403.49-4.45-13.00-49.362509.50H3346.00H5019.00H5855.50H6692.00H7528.50H										
344.28S-71.60-73.664.03-1.97-13.00-58.60584.84S-69.21-70.343.71-2.58-13.00-56.21690.57S-65.97-67.133.89-2.73-13.00-52.97949.56S-65.09-65.093.34-3.34-13.00-52.091673.00H-62.36-61.403.49-4.45-13.00-49.362509.50H3346.00H4182.50H5019.00H6692.00H7528.50H	30.00	S	-51.71	-36.54		-14.38	-0.80	-13.00	-38.71	
584.84S-69.21-70.343.71-2.58-13.00-56.21690.57S-65.97-67.133.89-2.73-13.00-52.97949.56S-65.09-65.093.34-3.34-13.00-52.091673.00H-62.36-61.403.49-4.45-13.00-49.362509.50H3346.00H4182.50H5019.00H6692.00H7528.50H	88.20	S	-61.87	-60.05		-0.65	-1.17	-13.00	-48.87	
690.57S-65.97-67.133.89-2.73-13.00-52.97949.56S-65.09-65.093.34-3.34-13.00-52.091673.00H-62.36-61.403.49-4.45-13.00-49.362509.50H3346.00H4182.50H5019.00H5855.50H7528.50H	344.28	S	-71.60	-73.66		4.03	-1.97	-13.00	-58.60	
949.56S-65.09-65.093.34-3.34-13.00-52.091673.00H-62.36-61.403.49-4.45-13.00-49.362509.50H13.00-49.36-44.5-13.00-49.363346.00H4182.50H5019.00H5855.50H6692.00H7528.50H	584.84	S	-69.21	-70.34		3.71	-2.58	-13.00	-56.21	
1673.00H-62.36-61.403.49-4.45-13.00-49.362509.50H	690.57	S	-65.97	-67.13		3.89	-2.73	-13.00	-52.97	
2509.50H3346.00H4182.50H5019.00H5855.50H6692.00H7528.50H	949.56	S	-65.09	-65.09		3.34	-3.34	-13.00	-52.09	
3346.00 H 4182.50 H 5019.00 H 5855.50 H 6692.00 H 7528.50 H	1673.00	Н	-62.36	-61.40		3.49	-4.45	-13.00	-49.36	
4182.50H5019.00H5855.50H6692.00H7528.50H	2509.50	Н								
5019.00 H 5855.50 H 6692.00 H 7528.50 H	3346.00	Н								
5855.50 H 6692.00 H 7528.50 H	4182.50	Н								
6692.00 H 7528.50 H	5019.00	Н								
7528.50 H	5855.50	Н								
	6692.00	Н								
8365.00 H	7528.50	Н								
	8365.00	Н								

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

"F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency. Note :

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---": denotes Noise Floor.



Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 601 of 774

Operation Band	:LTE B5		Test Date		:2014-11-29		
ARFCN	:CH 20525 16QAM BW	10 RB 1 0	Temp./Humi.		:23 deg_C /	58 RH	
Fundamental Frequency	:836.5 MHz	10 KD 1 0	Engineer		:Tin		
Operation Mode EUT Pol.			Measurement Ante	enna Pol.	:HORIZONTAL		
Freq. Note	ERP	SG	Antenna	Cable	Limit	Margin	
		Output Lev	el Gain	Loss			
MHz F/H/E/S	dBm	dBm	dBd	dB	dBm	dB	
30.00 S	-54.79	-39.61	-14.38	-0.80	-13.00	-41.79	
89.17 S	-66.31	-64.70	-0.43	-1.18	-13.00	-53.31	
389.87 S	-64.65	-66.62	4.03	-2.05	-13.00	-51.65	
649.83 S	-69.80	-71.05	3.94	-2.68	-13.00	-56.80	
768.17 S	-68.07	-68.89	3.70	-2.89	-13.00	-55.07	
903.97 S	-65.29	-65.57	3.55	-3.27	-13.00	-52.29	
1673.00 H	-64.53	-63.57	3.49	-4.45	-13.00	-51.53	
2509.50 H							
3346.00 H							
4182.50 H							
5019.00 H							
5855.50 H							
6692.00 H							
7528.50 H							
8365.00 H							

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

"F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency. Note :

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---": denotes Noise Floor.



Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 602 of 774

Operation Band		:LTE B5		Test Date		:2014-11-29	
ARFCN		:CH 20600 16QAM BW 10 RB 1 0		Temp./Humi.		:23 deg_C /	58 RH
Fundamenta		:844 MHz	10 KB 1 0	Engineer		:Tin	
Operation M EUT Pol.	Iode	:TX HIGH :H Plane		Measurement An	tenna Pol.	:VERTICAI	-
Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
			Output Lev	vel Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
33.88	S	-50.62	-36.42	-13.40	-0.80	-13.00	-37.62
88.20	S	-61.54	-59.72	-0.65	-1.17	-13.00	-48.54
206.54	S	-72.65	-74.93	3.82	-1.54	-13.00	-59.65
425.76	S	-71.68	-73.46	3.93	-2.15	-13.00	-58.68
759.44	S	-64.94	-65.77	3.69	-2.87	-13.00	-51.94
949.56	S	-64.32	-64.32	3.34	-3.34	-13.00	-51.32
1688.00	Н	-61.55	-60.54	3.46	-4.47	-13.00	-48.55
2532.00	Н						
3376.00	Н						
4220.00	Н						
5064.00	Н						
5908.00	Н						
6752.00	Н						
7596.00	Н						
8440.00	Н						

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

"F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency. Note :

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---": denotes Noise Floor.



Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 603 of 774

ARFCN :CH 20600 16QAM BW 10 RB 1 0 Pundamental FrequencyOperation ModeEUT Pol. :EdW MHz :Emgineer :Tin Freq. Note ERP SGOutput Level AntennaGain CableLoss Limit Margin MHz F/H/E/S dBm dBm dBd dB dBm dB 36.79 S -53.77 -40.23 -12.74 -0.80 -13.00 -40.77 88.20 S -66.63 -64.81 -0.65 -1.17 -13.00 -53.63 335.55 S -75.32 -77.34 3.97 -1.95 -13.00 -62.32 514.03 S -71.70 -73.25 3.94 -2.39 -13.00 -56.18 954.41 S -65.50 -65.23 3.07 -3.34 -13.00 -50.02 2532.00 H 376.00 H 376.00 H <	Operation Band		:LTE B5		Test Date		:2014-11-29		
Fundamental Frequency :844 MHz Engineer :Tin Operation Mode :TX HIGH EUT Pol. :H Plane Measurement Antenna Pol. :HORIZONTAL Freq. Note ERP SG Antenna Cable Limit Margin MHz F/H/E/S dBm dBm dBd dB dBm dB 36.79 S -53.77 -40.23 -12.74 -0.80 -13.00 -40.77 88.20 S -66.63 -64.81 -0.65 -1.17 -13.00 -53.63 355.55 S -75.32 -77.34 3.97 -1.95 -13.00 -62.32 514.03 S -71.70 -73.25 3.94 -2.39 -13.00 -55.18 954.41 S -65.50 -65.23 3.07 -3.34 -13.00 -50.02 2532.00 H	ARFCN				Temp./Humi.		:23 deg_C /	58 RH	
EUT Pol. :H Plane Measurement Antenna Pol. :HORIZONTAL Freq. Note ERP SG Output Level Antenna Gain Cable Loss Limit Margin MHz F/H/E/S dBm dBm dBd dB dBm dB 36.79 S -53.77 -40.23 -12.74 -0.80 -13.00 -40.77 88.20 S -66.63 -64.81 -0.65 -1.17 -13.00 -53.63 335.55 S -75.32 -77.34 3.97 -1.95 -13.00 -62.32 514.03 S -71.70 -73.25 3.94 -2.39 -13.00 -56.18 954.41 S -65.50 -65.23 3.07 -3.34 -13.00 -50.02 2532.00 H 3376.00 H			:844 MHz	10 KB 1 0	Engineer		:Tin		
MHz F/H/E/S dBm dBm dBd dBd dB dBm dB 36.79 S -53.77 -40.23 -12.74 -0.80 -13.00 -40.77 88.20 S -66.63 -64.81 -0.65 -1.17 -13.00 -53.63 335.55 S -75.32 -77.34 3.97 -1.95 -13.00 -62.32 514.03 S -71.70 -73.25 3.94 -2.39 -13.00 -58.70 734.22 S -69.18 -70.11 3.74 -2.82 -13.00 -56.18 954.41 S -65.50 -65.23 3.07 -3.34 -13.00 -50.02 2532.00 H 3376.00 H 5908.00 H 5908.00 H<		loue			Measurement Ant	enna Pol.	:HORIZON	TAL	
MHz F/H/E/S dBm dBm dBd dB dBm dB 36.79 S -53.77 -40.23 -12.74 -0.80 -13.00 -40.77 88.20 S -66.63 -64.81 -0.65 -1.17 -13.00 -53.63 335.55 S -75.32 -77.34 3.97 -1.95 -13.00 -62.32 514.03 S -71.70 -73.25 3.94 -2.39 -13.00 -58.70 734.22 S -69.18 -70.11 3.74 -2.82 -13.00 -56.18 954.41 S -65.50 -65.23 3.07 -3.34 -13.00 -50.02 2532.00 H 3376.00 H 5908.00 H 7596.00 H <	Freq.	Note	ERP			Cable	Limit	Margin	
36.79 S -53.77 -40.23 -12.74 -0.80 -13.00 -40.77 88.20 S -66.63 -64.81 -0.65 -1.17 -13.00 -53.63 335.55 S -75.32 -77.34 3.97 -1.95 -13.00 -62.32 514.03 S -71.70 -73.25 3.94 -2.39 -13.00 -58.70 734.22 S -69.18 -70.11 3.74 -2.82 -13.00 -56.18 954.41 S -65.50 -65.23 3.07 -3.34 -13.00 -52.50 1688.00 H -63.02 -62.01 3.46 -4.47 -13.00 -50.02 2532.00 H 3376.00 H 5908.00 H 7596.00 H				Output Lev	vel Gain	Loss			
88.20S-66.63-64.81-0.65-1.17-13.00-53.63335.55S-75.32-77.343.97-1.95-13.00-62.32514.03S-71.70-73.253.94-2.39-13.00-58.70734.22S-69.18-70.113.74-2.82-13.00-56.18954.41S-65.50-65.233.07-3.34-13.00-52.501688.00H-63.02-62.013.46-4.47-13.00-50.022532.00H3376.00H5064.00H5908.00H6752.00H7596.00H	MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB	
88.20S-66.63-64.81-0.65-1.17-13.00-53.63335.55S-75.32-77.343.97-1.95-13.00-62.32514.03S-71.70-73.253.94-2.39-13.00-58.70734.22S-69.18-70.113.74-2.82-13.00-56.18954.41S-65.50-65.233.07-3.34-13.00-52.501688.00H-63.02-62.013.46-4.47-13.00-50.022532.00H3376.00H5064.00H5908.00H6752.00H7596.00H									
335.55S-75.32-77.343.97-1.95-13.00-62.32514.03S-71.70-73.253.94-2.39-13.00-58.70734.22S-69.18-70.113.74-2.82-13.00-56.18954.41S-65.50-65.233.07-3.34-13.00-52.501688.00H-63.02-62.013.46-4.47-13.00-50.022532.00H3376.00H5064.00H5908.00H6752.00H7596.00H	36.79	S	-53.77	-40.23	-12.74	-0.80	-13.00	-40.77	
514.03 S -71.70 -73.25 3.94 -2.39 -13.00 -58.70 734.22 S -69.18 -70.11 3.74 -2.82 -13.00 -56.18 954.41 S -65.50 -65.23 3.07 -3.34 -13.00 -52.50 1688.00 H -63.02 -62.01 3.46 -4.47 -13.00 -50.02 2532.00 H	88.20	S	-66.63	-64.81	-0.65	-1.17	-13.00	-53.63	
734.22S-69.18-70.113.74-2.82-13.00-56.18954.41S-65.50-65.233.07-3.34-13.00-52.501688.00H-63.02-62.013.46-4.47-13.00-50.022532.00H3376.00H5064.00H5908.00H6752.00H7596.00H	335.55	S	-75.32	-77.34	3.97	-1.95	-13.00	-62.32	
954.41S-65.50-65.233.07-3.34-13.00-52.501688.00H-63.02-62.013.46-4.47-13.00-50.022532.00H3376.00H4220.00H5064.00H5908.00H6752.00H7596.00H	514.03	S	-71.70	-73.25	3.94	-2.39	-13.00	-58.70	
1688.00H-63.02-62.013.46-4.47-13.00-50.022532.00H	734.22	S	-69.18	-70.11	3.74	-2.82	-13.00	-56.18	
2532.00H3376.00H4220.00H5064.00H5908.00H6752.00H7596.00H	954.41	S	-65.50	-65.23	3.07	-3.34	-13.00	-52.50	
3376.00H4220.00H5064.00H5908.00H6752.00H7596.00H	1688.00	Н	-63.02	-62.01	3.46	-4.47	-13.00	-50.02	
4220.00H5064.00H5908.00H6752.00H7596.00H	2532.00	Н							
5064.00 H 5908.00 H 6752.00 H 7596.00 H	3376.00	Н							
5908.00H6752.00H7596.00H	4220.00	Н							
6752.00 H 7596.00 H	5064.00	Н							
7596.00 H	5908.00	Н							
	6752.00	Н							
8440.00 H	7596.00	Н							
	8440.00	Н							

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

"F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency. Note :

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---": denotes Noise Floor.



Radiated S Operation B		:LTE B7	nent Result:	15MHz BW LTE- Test Date	Band 7(Tl	ne Worst Cas :2014-11-29	
ARFCN		:CH 20850 16QAM BW	15 RB 1 0	Temp./Humi.		:23 deg_C /	56 RH
Fundamental Frequency Operation Mode		:2502.5 MHz :TX LOW		Engineer		:Tin	
EUT Pol.		:E1 Plane			Measurement Antenna Pol.		_
Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Lev	vel Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
32.91	S	-54.94	-42.66	-11.48	-0.80	-25.00	-29.94
254.07	S	-70.16	-73.86	5.42	-1.72	-25.00	-45.16
418.00	S	-70.08	-74.06	6.11	-2.13	-25.00	-45.08
515.00	S	-69.85	-73.54	6.09	-2.39	-25.00	-44.85
772.05	S	-53.44	-56.40	5.86	-2.89	-25.00	-28.44
824.43	S	-63.68	-66.55	5.90	-3.03	-25.00	-38.68
5015.00	Н	-49.59	-51.97	10.31	-7.92	-25.00	-24.59
7522.50	Н	-45.62	-47.67	11.92	-9.87	-25.00	-20.62
10030.00	Н	-38.81	-40.18	12.91	-11.54	-25.00	-13.81
12537.50	Н						
15045.00	Н						
17552.50	Н						
20060.00	Н						
22567.50	Н						
25075.00	Н						

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

"F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency. Note :

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---": denotes Noise Floor.



Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 605 of 774

Operation Band		:LTE B7		Test Date		:2014-11-29		
ARFCN		:CH 20850 16QAM BW	15 RR 1 0	Temp./Humi.		:23 deg_C /	56 RH	
Fundament	al Frequency	:2502.5 MHz		Engineer		:Tin		
1		:TX LOW :E1 Plane			enna Pol.	:HORIZONTAL		
Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin	
			Output Lev	vel Gain	Loss			
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB	
88.20	S	-68.89	-69.23	1.50	-1.17	-25.00	-43.89	
246.31	S	-70.35	-74.12	5.47	-1.69	-25.00	-45.35	
420.91	S	-71.45	-75.41	6.09	-2.13	-25.00	-46.45	
579.99	S	-68.73	-72.04	5.89	-2.57	-25.00	-43.73	
771.08	S	-53.17	-56.13	5.86	-2.89	-25.00	-28.17	
936.95	S	-62.79	-65.01	5.54	-3.32	-25.00	-37.79	
5015.00	Н	-48.47	-50.85	10.31	-7.92	-25.00	-23.47	
7522.50	Н	-48.45	-50.49	11.92	-9.87	-25.00	-23.45	
10030.00	Н	-40.62	-41.99	12.91	-11.54	-25.00	-15.62	
12537.50	Н							
15045.00	Н							
17552.50	Н							
20060.00	Н							
22567.50	Н							
25075.00	Н							

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

"F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency. Note :

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---": denotes Noise Floor.



Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 606 of 774

Operation Band		:LTE B7		Test Date		:2014-11-29		
ARFCN		:CH 21100 16QAM BW 15 RB 1 0		Temp./Humi.		:23 deg_C /	56 RH	
Fundament	al Frequency	:2535 MHz	15 KD 1 0	Engineer		:Tin		
1		:TX MID :E1 Plane			tenna Pol.	:VERTICAL		
Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin	
			Output Lev	vel Gain	Loss			
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB	
32.91	S	-51.33	-39.04	-11.48	-0.80	-25.00	-26.33	
255.04	S	-71.77	-75.45	5.41	-1.73	-25.00	-46.77	
361.74	S	-70.39	-74.59	6.20	-2.00	-25.00	-45.39	
545.07	S	-70.10	-73.67	6.04	-2.48	-25.00	-45.10	
774.96	S	-53.94	-56.90	5.86	-2.90	-25.00	-28.94	
937.92	S	-60.73	-62.95	5.54	-3.32	-25.00	-35.73	
5070.00	Н	-55.69	-58.04	10.33	-7.98	-25.00	-30.69	
7605.00	Н	-46.84	-48.91	11.99	-9.92	-25.00	-21.84	
10140.00	Н	-37.87	-39.19	12.93	-11.61	-25.00	-12.87	
12675.00	Н							
15210.00	Н							
17745.00	Н							
20280.00	Н							
22815.00	Н							
25350.00	Н							

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

"F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency. Note :

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---": denotes Noise Floor.



Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 607 of 774

Operation Band		:LTE B7		Test Date		:2014-11-29	
ARFCN		:CH 21100 16QAM BW 15 RB 1 0		Temp./Humi.		:23 deg_C /	56 RH
Fundamenta	al Frequency	:2535 MHz	15 KD 10	Engineer		:Tin	
1		:TX MID :E1 Plane			tenna Pol.	:HORIZONTAL	
Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Lev	vel Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
92.08	S	-69.00	-69.55	1.74	-1.20	-25.00	-44.00
271.53	S	-69.99	-73.70	5.49	-1.78	-25.00	-44.99
514.03	S	-71.16	-74.85	6.09	-2.39	-25.00	-46.16
650.80	S	-65.08	-68.48	6.09	-2.68	-25.00	-40.08
773.02	S	-52.28	-55.24	5.86	-2.90	-25.00	-27.28
940.83	S	-64.12	-66.32	5.53	-3.32	-25.00	-39.12
5070.00	Н	-51.95	-54.30	10.33	-7.98	-25.00	-26.95
7605.00	Н	-47.56	-49.62	11.99	-9.92	-25.00	-22.56
10140.00	Н	-42.12	-43.44	12.93	-11.61	-25.00	-17.12
12675.00	Н						
15210.00	Н						
17745.00	Н						
20280.00	Н						
22815.00	Н						
25350.00	Н						

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

"F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency. Note :

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---": denotes Noise Floor.



Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 608 of 774

Operation Band		:LTE B7		Test Date			:2014-11-29	
ARFCN		:CH 21375 16QAM BW	15 RR 1 0	Temp./Humi.			:23 deg_C / 56 RH	
Fundamenta	al Frequency	:2562.5 MHz		Engineer			:Tin	
1		:TX HIGH :E1 Plane		Measuren	Measurement Antenna Pol.			
Freq.	Note	EIRP	SG	Ar	ntenna	Cable	Limit	Margin
			Output Lev	vel C	Gain	Loss		
MHz	F/H/E/S	dBm	dBm		dBi	dB	dBm	dB
31.94	S	-52.92	-40.39	-]	11.72	-0.80	-25.00	-27.92
275.41	S	-70.51	-74.29	-	5.58	-1.79	-25.00	-45.51
290.93	S	-70.96	-74.64	-	5.52	-1.84	-25.00	-45.96
535.37	S	-69.49	-73.10	(5.06	-2.45	-25.00	-44.49
771.08	S	-53.61	-56.57	4	5.86	-2.89	-25.00	-28.61
935.98	S	-64.04	-66.28	4	5.55	-3.32	-25.00	-39.04
5125.00	Н	-51.59	-53.91	1	0.35	-8.03	-25.00	-26.59
7687.50	Н	-47.88	-49.97	1	2.05	-9.97	-25.00	-22.88
10250.00	Н	-39.12	-40.40	1	2.95	-11.68	-25.00	-14.12
12812.50	Н							
15375.00	Н							
17937.50	Н							
20500.00	Н							
23062.50	Н							
25625.00	Н							

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

"F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency. Note :

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---": denotes Noise Floor.



Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 609 of 774

Operation Band		:LTE B7 :CH 21375 16QAM BW 15 RB 1 0		Test Date		:2014-11-29 :23 deg_C / 56 RH	
ARFCN				Temp./Humi.			
Fundamenta	al Frequency	:2562.5 MHz		Engineer		:Tin	
Operation M EUT Pol.	1ode	:TX HIGH :E1 Plane		Measurement Ant	enna Pol.	:HORIZON	ΓAL
Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
			Output Lev	vel Gain	Loss		
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
90.14	S	-67.22	-67.92	1.90	-1.20	-25.00	-42.22
278.32	S	-69.24	-73.08	5.64	-1.80	-25.00	-44.24
597.45	S	-65.42	-68.61	5.80	-2.61	-25.00	-40.42
682.81	S	-64.64	-67.97	6.05	-2.72	-25.00	-39.64
772.05	S	-53.56	-56.53	5.86	-2.89	-25.00	-28.56
937.92	S	-63.65	-65.87	5.54	-3.32	-25.00	-38.65
5125.00	Н	-52.17	-54.50	10.35	-8.03	-25.00	-27.17
7687.50	Н	-48.52	-50.60	12.05	-9.97	-25.00	-23.52
10250.00	Н	-40.86	-42.13	12.95	-11.68	-25.00	-15.86
12812.50	Н						
15375.00	Н						
17937.50	Н						
20500.00	Н						
23062.50	Н						
25625.00	Н						

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

"F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency. Note :

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---": denotes Noise Floor.



11. FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT

11.1. Standard Applicable:

According to FCC §2.1055(a) (1)

Frequency Tolerance: +/-2.5ppm for 850MHz band

+/-2.5ppm for 1900MHz band

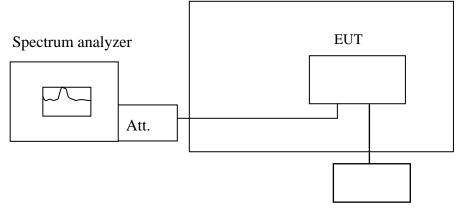
+/-2.5ppm for 1700MHz band

+/-2.5ppm for 700MHz band

+/-2.5ppm for 2500MHz band

11.2. Test Set-up:

Temperature Chamber



Variable DC Power Supply

Note: Measurement setup for testing on Antenna connector

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.



11.3. Measurement Procedure:

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30 °C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

11.4. Measurement Equipment Used:

Refer to section 2.4 in this report

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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11.5. Measurement Result:

	Reference Frequency: GPRS 850 Mid Channel 836.6 MHz						
		Limit: +/- 2.5 ppm = Hz	Z				
Power Supply	Environment	Frequency					
Vdc	Temperature	(MHz)	Delta (Hz)	Limit (Hz)			
3.8	50	836.599975	-10	2091			
3.8	40	836.599984	-1	2091			
3.8	30	836.599985	0	2091			
3.8	20	836.599985	0	2091			
3.8	10	836.599984	-1	2091			
3.8	0	836.599986	1	2091			
3.8	-10	836.599980	-5	2091			
3.8	-20	836.599978	-7	2091			
3.8	-30	836.599982	-3	2091			

	Reference Frequency: GPRS 1900 Mid Channel 1880 MHz						
		Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency					
Vdc	Temperature	(MHz)	Delta (Hz)	Limit (Hz)			
3.8	50	1879.999972	-17	4700			
3.8	40	1879.999977	-12	4700			
3.8	30	1879.999984	-5	4700			
3.8	20	1879.999989	0	4700			
3.8	10	1879.999989	0	4700			
3.8	0	1879.999987	-2	4700			
3.8	-10	1879.999975	-14	4700			
3.8	-20	1879.999982	-7	4700			
3.8	-30	1879.999979	-10	4700			

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>www.sgs.com/terms_and_conditions.htm</u> and, for elec-tronic format documents, subject to Terms and Conditions for Electronic Documents at <u>www.sgs.com/terms_e-document.htm</u></u>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document is advised any be prosecuted to the fulle at vent of the law. pearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

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Reference Frequency: WCDMA II Mid Channel 1880						
	Lin	nit: +/- 2.5 ppm =	Hz			
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)		
Vdc	Temperature ()	(MHz)	Della (HZ)	Lillint (HZ)		
3.8	50	1879.999982	-21	4700		
3.8	40	1879.999989	-14	4700		
3.8	30	1879.999984	-19	4700		
3.8	20	1880.000003	0	4700		
3.8	10	1879.999986	-17	4700		
3.8	0	1879.999981	-22	4700		
3.8	-10	1879.999978	-25	4700		
3.8	-20	1879.999970	-33	4700		
3.8	-30	1879.999968	-35	4700		

Reference Frequency: WCDMA IV Mid Channel 1732.6						
	Lir	mit: +/- 2.5 ppm =	Hz			
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)		
Vdc	Temperature ()	(MHz)	Delta (IIZ)	Linit (112)		
3.8	50	1732.59977	-4	4331		
3.8	40	1732.59984	3	4331		
3.8	30	1732.59985	4	4331		
3.8	20	1732.59981	0	4331		
3.8	10	1732.59986	5	4331		
3.8	0	1732.59979	-2	4331		
3.8	-10	1732.59978	-3	4331		
3.8	-20	1732.59972	-9	4331		
3.8	-30	1732.59968	-13	4331		

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R	Reference Frequency: WCDMA V Mid Channel 836.6 MHz						
	Lir	mit: +/- 2.5 ppm =	Hz				
Power Supply	Environment	Frequency	Dolto (Uz)	Limit (Uz)			
Vdc	Temperature ()	(MHz)	Delta (Hz)	Limit (Hz)			
3.8	50	836.599978	-28	2091			
3.8	40	836.599981	-25	2091			
3.8	30	836.599990	-16	2091			
3.8	20	836.600006	0	2091			
3.8	10	836.599993	-13	2091			
3.8	0	836.599998	-8	2091			
3.8	-10	836.600012	6	2091			
3.8	-20	836.600020	14	2091			
3.8	-30	836.600029	23	2091			



Referen	ce Frequency:	LTE B2 Mid Channel	1880.0	MHz 1.4M QPSK CH 18900
		Limit: +/- 2.5	5 ppm = Hz	
Power Supply	Environment	Frequency	Dolto (Uz)	Limit (Hz)
Vdc	Temperature	(MHz)	Delta (Hz)	Limit (Hz)
3.8	-30	1880.000011	9.00	4700
3.8	-20	1880.000004	2.00	4700
3.8	-10	1879.999997	-5.00	4700
3.8	0	1879.999994	-8.00	4700
3.8	10	1880.000003	1.00	4700
3.8	20	1880.000002	0.00	4700
3.8	30	1880.000005	3.00	4700
3.8	40	1879.999994	-8.00	4700
3.8	50	1880.000005	3.00	4700

Referen	ce Frequency:	LTE B2 Mid Channel	1880.0	MHz	1.4M 16QAM CH 18900			
	Limit: +/- 2.5 ppm = Hz							
Power Supply	Environment	Frequency	Dolto (Hz)		Limit (Uz)			
Vdc	Temperature	(MHz)	Delta (Hz)		Limit (Hz)			
3.8	-30	1879.999995	-9.00		4700			
3.8	-20	1879.999991	-13.00		4700			
3.8	-10	1880.000004	0.00		4700			
3.8	0	1880.000003	-1.00		4700			
3.8	10	1880.000005	1.00		4700			
3.8	20	1880.000004	0.00		4700			
3.8	30	1879.999994	-10.00		4700			
3.8	40	1880.000008	4.00		4700			
3.8	50	1880.000004	0.00		4700			



Referen	ce Frequency:	LTE B2 Mid Channel	1880.0	MHz	3M QPSK CH 18900		
	Limit: +/- 2.5 ppm = Hz						
Power Supply	Environment	Frequency	Dolto (Uz)		Limit (Hz)		
Vdc	Temperature ()	(MHz)	Delta (Hz)		Limit (Hz)		
3.8	-30	1880.000004	1.00		4700		
3.8	-20	1879.999994	-9.00		4700		
3.8	-10	1879.999991	-12.00		4700		
3.8	0	1880.000005	2.00		4700		
3.8	10	1880.000003	0.00		4700		
3.8	20	1880.000003	0.00		4700		
3.8	30	1880.000005	2.00		4700		
3.8	40	1879.999994	-9.00		4700		
3.8	50	1880.000003	0.00		4700		

Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz	3M 16QAM CH 18900			
	Limit: +/- 2.5 ppm = Hz							
Power Supply	Environment	Frequency	Dalta (Uz)					
Vdc	Temperature	(MHz)	Delta (Hz)		Limit (Hz)			
3.8	-30	1879.999986	-17.00		4700			
3.8	-20	1880.000004	1.00		4700			
3.8	-10	1879.999995	-8.00		4700			
3.8	0	1880.000003	0.00		4700			
3.8	10	1880.000006	3.00		4700			
3.8	20	1880.000003	0.00		4700			
3.8	30	1880.000007	4.00		4700			
3.8	40	1880.000003	0.00		4700			
3.8	50	1879.999997	-6.00		4700			



Referen	ce Frequency:	LTE B2 Mid Channel	1880.0	MHz	5M QPSK CH 18900
		Limit: +/- 2.5	ppm = Hz		
Power Supply	Environment	Frequency	Dolto (Uz)		Limit (IIz)
Vdc	Temperature	(MHz)	Delta (Hz)		Limit (Hz)
3.8	-30	1880.000003	-1.00		4700
3.8	-20	1880.000005	1.00		4700
3.8	-10	1879.999995	-9.00		4700
3.8	0	1880.000003	-1.00		4700
3.8	10	1879.999994	-10.00		4700
3.8	20	1880.000004	0.00		4700
3.8	30	1879.999997	-7.00		4700
3.8	40	1880.000003	-1.00		4700
3.8	50	1880.000005	1.00		4700

Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz	5M 16QAM CH 18900			
	Limit: +/- 2.5 ppm = Hz							
Power Supply	Environment	Frequency	Dolto (Uz)		Limit (IIz)			
Vdc	Temperature	(MHz)	Delta (Hz)		Limit (Hz)			
3.8	-30	1879.999995	-8.00		4700			
3.8	-20	1879.999997	-6.00		4700			
3.8	-10	1880.000005	2.00		4700			
3.8	0	1879.999991	-12.00		4700			
3.8	10	1880.000006	3.00		4700			
3.8	20	1880.000003	0.00		4700			
3.8	30	1880.000003	0.00		4700			
3.8	40	1879.999997	-6.00		4700			
3.8	50	1880.000006	3.00		4700			



Referen	ce Frequency:	LTE B2 Mid Channel	1880.0	MHz	10M QPSK CH 18900		
	Limit: +/- 2.5 ppm = Hz						
Power Supply	Environment	Frequency	- Delta (Hz)	Limit (Hz)	Limit (IIa)		
Vdc	Temperature	(MHz)			Liiiiit (HZ)		
3.8	-30	1879.999987	-17.00		4700		
3.8	-20	1879.999997	-7.00		4700		
3.8	-10	1880.000002	-2.00		4700		
3.8	0	1880.000004	0.00		4700		
3.8	10	1880.000005	1.00		4700		
3.8	20	1880.000004	0.00		4700		
3.8	30	1879.999998	-6.00		4700		
3.8	40	1880.000004	0.00		4700		
3.8	50	1880.000005	1.00		4700		

Referen	ce Frequency:	LTE B2 Mid Channel	1880.0	MHz	10M 16QAM CH 18900			
	Limit: +/- 2.5 ppm = Hz							
Power Supply	Environment	Frequency	Delta (Hz)					
Vdc	Temperature ()	(MHz)			Limit (Hz)			
3.8	-30	1879.999994	-11.00		4700			
3.8	-20	1880.000009	4.00		4700			
3.8	-10	1880.000005	0.00		4700			
3.8	0	1879.999997	-8.00		4700			
3.8	10	1880.000004	-1.00		4700			
3.8	20	1880.000005	0.00		4700			
3.8	30	1879.999996	-9.00		4700			
3.8	40	1879.999997	-8.00		4700			
3.8	50	1879.999997	-8.00		4700			



Referen	ce Frequency:	LTE B2 Mid Channel	1880.0	MHz	15M QPSK CH 18900			
	Limit: +/- 2.5 ppm = Hz							
Power Supply	Environment	Frequency	Dolto (Uz)		Limit (Hz)			
Vdc	Temperature	(MHz)	Delta (Hz)	Limit (Hz)				
3.8	-30	1880.000005	2.00		4700			
3.8	-20	1880.000003	0.00		4700			
3.8	-10	1879.999995	-8.00		4700			
3.8	0	1879.999998	-5.00		4700			
3.8	10	1880.000005	2.00		4700			
3.8	20	1880.000003	0.00		4700			
3.8	30	1879.999998	-5.00		4700			
3.8	40	1880.000004	1.00		4700			
3.8	50	1880.000006	3.00		4700			

Referen	ce Frequency:	LTE B2 Mid Channel	1880.0	MHz	15M 16QAM CH 18900			
	Limit: ± -2.5 ppm = Hz							
Power Supply	Environment	Frequency	Dolto (Uz)					
Vdc	Temperature	(MHz)	Delta (Hz)		Limit (Hz)			
3.8	-30	1880.000012	7.00		4700			
3.8	-20	1879.999998	-7.00		4700			
3.8	-10	1880.000004	-1.00		4700			
3.8	0	1880.000002	-3.00		4700			
3.8	10	1879.999997	-8.00		4700			
3.8	20	1880.000005	0.00		4700			
3.8	30	1880.000003	-2.00		4700			
3.8	40	1879.999999	-6.00		4700			
3.8	50	1880.000004	-1.00		4700			



Referen	ce Frequency:	LTE B2 Mid Channel	1880.0	MHz	20M QPSK CH 18900			
	Limit: +/- 2.5 ppm = Hz							
Power Supply	Environment	Frequency	Dolto (Uz)		Limit (Hz)			
Vdc	Temperature	(MHz)	Delta (Hz)		Limit (Hz)			
3.8	-30	1880.000004	2.00		4700			
3.8	-20	1880.000005	3.00		4700			
3.8	-10	1880.000002	0.00		4700			
3.8	0	1880.000008	6.00		4700			
3.8	10	1879.999994	-8.00		4700			
3.8	20	1880.000002	0.00		4700			
3.8	30	1880.000003	1.00		4700			
3.8	40	1879.999996	-6.00		4700			
3.8	50	1879.999998	-4.00		4700			

Referen	ce Frequency:	LTE B2 Mid Channel	1880.0	MHz	20M 16QAM CH 18900			
	Limit: ± -2.5 ppm = Hz							
Power Supply	Environment	Frequency	Delta (Hz)		Limit (IIa)			
Vdc	Temperature	(MHz)			Limit (Hz)			
3.8	-30	1880.000004	1.00		4700			
3.8	-20	1880.000002	-1.00		4700			
3.8	-10	1880.000005	2.00		4700			
3.8	0	1879.999996	-7.00		4700			
3.8	10	1879.999995	-8.00		4700			
3.8	20	1880.000003	0.00		4700			
3.8	30	1879.999997	-6.00		4700			
3.8	40	1880.000002	-1.00		4700			
3.8	50	1879.999995	-8.00		4700			



Referen	ce Frequency:	LTE B4 Mid Channel	1732.5	MHz 1.4M QPSK CH 20175			
	Limit: +/- 2.5 ppm = Hz						
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)			
Vdc	Temperature ()	(MHz)		Limit (Hz)			
3.8	-30	1732.500012	17.00	4331			
3.8	-20	1732.500006	11.00	4331			
3.8	-10	1732.499996	1.00	4331			
3.8	0	1732.499994	-1.00	4331			
3.8	10	1732.500003	8.00	4331			
3.8	20	1732.499995	0.00	4331			
3.8	30	1732.499998	3.00	4331			
3.8	40	1732.499995	0.00	4331			
3.8	50	1732.499994	-1.00	4331			

Reference Frequency:		LTE B4 Mid Channel	1732.5	MHz	1.4M 16QAM CH 20175		
	Limit: +/- 2.5 ppm = Hz						
Power Supply	Environment	Frequency	Delta (Hz)		Limit (Uz)		
Vdc	Temperature	(MHz)			Limit (Hz)		
3.8	-30	1732.500006	12.00		4331		
3.8	-20	1732.500007	13.00		4331		
3.8	-10	1732.499999	5.00		4331		
3.8	0	1732.499995	1.00		4331		
3.8	10	1732.499991	-3.00		4331		
3.8	20	1732.499994	0.00		4331		
3.8	30	1732.500003	9.00		4331		
3.8	40	1732.500002	8.00		4331		
3.8	50	1732.500008	14.00		4331		



Referen	ce Frequency:	LTE B4 Mid Channel	1732.5	MHz 3M QPSK CH 20175				
	Limit: $\pm -2.5 \text{ ppm} = \text{Hz}$							
Power Supply	Environment	Frequency	Dolto (Uz)	Limit (Hz)				
Vdc	Temperature ()	(MHz)	Delta (Hz)	Limit (Hz)				
3.8	-30	1732.500002	3.00	4331				
3.8	-20	1732.500006	7.00	4331				
3.8	-10	1732.500008	9.00	4331				
3.8	0	1732.500001	2.00	4331				
3.8	10	1732.500006	7.00	4331				
3.8	20	1732.499999	0.00	4331				
3.8	30	1732.500005	6.00	4331				
3.8	40	1732.500008	9.00	4331				
3.8	50	1732.500003	4.00	4331				

Referen	ce Frequency:	LTE B4 Mid Channel	1732.5	MHz	3M 16QAM CH 20175		
	Limit: +/- 2.5 ppm = Hz						
Power Supply	Environment	Frequency	Dalta (II-)				
Vdc	Temperature	(MHz)	Delta (Hz)	Limit (Hz)			
3.8	-30	1732.499994	0.00		4331		
3.8	-20	1732.499998	4.00		4331		
3.8	-10	1732.499992	-2.00		4331		
3.8	0	1732.499997	3.00		4331		
3.8	10	1732.499996	2.00		4331		
3.8	20	1732.499994	0.00		4331		
3.8	30	1732.499993	-1.00		4331		
3.8	40	1732.499995	1.00		4331		
3.8	50	1732.499999	5.00		4331		



Referen	ce Frequency:	LTE B4 Mid Channel	1732.5	MHz 5M QPSK CH 20175			
	Limit: +/- 2.5 ppm = Hz						
Power Supply	Environment	Frequency	Dolto (Uz)	Limit (II-)			
Vdc	Temperature ()	(MHz)	Delta (Hz)	Limit (Hz)			
3.8	-30	1732.499992	-7.00	4331			
3.8	-20	1732.499996	-3.00	4331			
3.8	-10	1732.499997	-2.00	4331			
3.8	0	1732.499995	-4.00	4331			
3.8	10	1732.499991	-8.00	4331			
3.8	20	1732.499999	0.00	4331			
3.8	30	1732.499994	-5.00	4331			
3.8	40	1732.499998	-1.00	4331			
3.8	50	1732.499993	-6.00	4331			

Reference Frequency:		eference Frequency: LTE B4 Mid Channel 1732.5		MHz	5M 16QAM CH 20175		
	Limit: +/- 2.5 ppm = Hz						
Power Supply	Environment	Frequency	Dolto (Uz)		Limit (IIz)		
Vdc	Temperature ()	(MHz)	Delta (Hz)		Limit (Hz)		
3.8	-30	1732.499991	-8.00		4331		
3.8	-20	1732.499996	-3.00		4331		
3.8	-10	1732.499998	-1.00		4331		
3.8	0	1732.499992	-7.00		4331		
3.8	10	1732.499997	-2.00		4331		
3.8	20	1732.499999	0.00		4331		
3.8	30	1732.499993	-6.00		4331		
3.8	40	1732.499992	-7.00		4331		
3.8	50	1732.499994	-5.00		4331		



Referen	ce Frequency:	LTE B4 Mid Channel	1732.5	MHz	10M QPSK CH 20175		
	Limit: +/- 2.5 ppm = Hz						
Power Supply	Environment	Frequency	Dolto (Uz)		Limit (IIa)		
Vdc	Temperature	(MHz)	Delta (Hz)	Limit (Hz)			
3.8	-30	1732.499999	4.00		4331		
3.8	-20	1732.499995	0.00		4331		
3.8	-10	1732.499993	-2.00		4331		
3.8	0	1732.499991	-4.00		4331		
3.8	10	1732.499997	2.00		4331		
3.8	20	1732.499995	0.00		4331		
3.8	30	1732.499994	-1.00		4331		
3.8	40	1732.499999	4.00		4331		
3.8	50	1732.499992	-3.00		4331		

Referen	ce Frequency:	LTE B4 Mid Channel	1732.5	MHz	10M 16QAM CH 20175			
	Limit: +/- 2.5 ppm = Hz							
Power Supply	Environment	Frequency	Dalta (Uz)					
Vdc	Temperature	(MHz)	Delta (Hz)		Limit (Hz)			
3.8	-30	1732.499994	0.00		4331			
3.8	-20	1732.499993	-1.00		4331			
3.8	-10	1732.499993	-1.00		4331			
3.8	0	1732.499992	-2.00		4331			
3.8	10	1732.499998	4.00		4331			
3.8	20	1732.499994	0.00		4331			
3.8	30	1732.499996	2.00		4331			
3.8	40	1732.499992	-2.00		4331			
3.8	50	1732.499998	4.00		4331			



Referen	ce Frequency:	LTE B4 Mid Channel	1732.5	MHz	15M QPSK CH 20175		
	Limit: +/- 2.5 ppm = Hz						
Power Supply	Environment	Frequency	Dolto (Uz)				
Vdc	Temperature	(MHz)	Delta (Hz)		Limit (Hz)		
3.8	-30	1732.499994	-4.00		4331		
3.8	-20	1732.499992	-6.00		4331		
3.8	-10	1732.499999	1.00		4331		
3.8	0	1732.499991	-7.00		4331		
3.8	10	1732.499996	-2.00		4331		
3.8	20	1732.499998	0.00		4331		
3.8	30	1732.499993	-5.00		4331		
3.8	40	1732.499997	-1.00		4331		
3.8	50	1732.499994	-4.00		4331		

Referen	ce Frequency:	LTE B4 Mid Channel	1732.5	MHz	15M 16QAM CH 20175		
	Limit: +/- 2.5 ppm = Hz						
Power Supply	Environment	Frequency	Dalta (II-)				
Vdc	Temperature ()	(MHz)	Delta (Hz)		Limit (Hz)		
3.8	-30	1732.499993	-2.00		4331		
3.8	-20	1732.499994	-1.00		4331		
3.8	-10	1732.499991	-4.00		4331		
3.8	0	1732.499999	4.00		4331		
3.8	10	1732.499996	1.00		4331		
3.8	20	1732.499995	0.00		4331		
3.8	30	1732.499998	3.00		4331		
3.8	40	1732.499999	4.00		4331		
3.8	50	1732.499992	-3.00		4331		



Referen	ce Frequency:	LTE B4 Mid Channel	1732.5	MHz	20M QPSK CH 20175		
	Limit: +/- 2.5 ppm = Hz						
Power Supply	Environment	Frequency	Dolto (Hz)		Limit (Hz)		
Vdc	Temperature	(MHz)	Delta (Hz)		Limit (Hz)		
3.8	-30	1732.499994	3.00		4331		
3.8	-20	1732.499993	2.00		4331		
3.8	-10	1732.499994	3.00		4331		
3.8	0	1732.499996	5.00		4331		
3.8	10	1732.499997	6.00		4331		
3.8	20	1732.499991	0.00		4331		
3.8	30	1732.499995	4.00		4331		
3.8	40	1732.499999	8.00		4331		
3.8	50	1732.499999	8.00		4331		

Referen	ce Frequency:	LTE B4 Mid Channel	1732.5	MHz	20M 16QAM CH 20175	
	Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Dolto (Uz)		Limit (IIa)	
Vdc	Temperature	(MHz)	Delta (Hz)	Limit (Hz)		
3.8	-30	1732.499991	5.00		4331	
3.8	-20	1732.499994	8.00		4331	
3.8	-10	1732.499996	10.00		4331	
3.8	0	1732.499992	6.00		4331	
3.8	10	1732.499998	12.00		4331	
3.8	20	1732.499986	0.00		4331	
3.8	30	1732.499997	11.00		4331	
3.8	40	1732.499992	6.00		4331	
3.8	50	1732.499994	8.00		4331	



Referen	ce Frequency:	LTE B5 Mid Channel	836.5	MHz	1.4M QPSK CH 20525		
	Limit: +/- 2.5 ppm = Hz						
Power Supply	Environment	Frequency					
Vdc	Temperature	(MHz)	Delta (Hz)		Limit (Hz)		
3.8	-30	836.499989	-6.00		2091		
3.8	-20	836.499991	-4.00		2091		
3.8	-10	836.499992	-3.00		2091		
3.8	0	836.499997	2.00		2091		
3.8	10	836.499999	4.00		2091		
3.8	20	836.499995	0.00		2091		
3.8	30	836.499994	-1.00		2091		
3.8	40	836.499998	3.00		2091		
3.8	50	836.499994	-1.00		2091		

Referen	ce Frequency:	LTE B5 Mid Channel	836.5	MHz	1.4M 16QAM CH 20525			
	Limit: +/- 2.5 ppm = Hz							
Power Supply	Environment	Frequency						
Vdc	Temperature ()	(MHz)	Delta (Hz)		Limit (Hz)			
3.8	-30	836.499992	0.00		2091			
3.8	-20	836.499993	1.00		2091			
3.8	-10	836.499994	2.00		2091			
3.8	0	836.499997	5.00		2091			
3.8	10	836.499996	4.00		2091			
3.8	20	836.499992	0.00		2091			
3.8	30	836.499994	2.00		2091			
3.8	40	836.499995	3.00		2091			
3.8	50	836.499997	5.00		2091			



Referen	ce Frequency:	LTE B5 Mid Channel	836.5	MHz	3M QPSK CH 20525			
	Limit: +/- 2.5 ppm = Hz							
Power Supply	Environment	Frequency	Dalta (IIa)		Limit (IIa)			
Vdc	Temperature ()	(MHz)	Delta (Hz)		Limit (Hz)			
3.8	-30	836.499991	-7.00		2091			
3.8	-20	836.499995	-3.00		2091			
3.8	-10	836.499996	-2.00		2091			
3.8	0	836.499994	-4.00		2091			
3.8	10	836.499997	-1.00		2091			
3.8	20	836.499998	0.00		2091			
3.8	30	836.500005	7.00		2091			
3.8	40	836.500006	8.00		2091			
3.8	50	836.500008	10.00		2091			

Referen	ce Frequency:	LTE B5 Mid Channel	836.5	MHz	3M 16QAM CH 20525			
	Limit: ± -2.5 ppm = Hz							
Power Supply	Environment	Frequency	Dolto (Uz)		Limit (Hz)			
Vdc	Temperature ()	(MHz)	Delta (Hz)		Limit (Hz)			
3.8	-30	836.499989	-8.00		2091			
3.8	-20	836.499996	-1.00		2091			
3.8	-10	836.499994	-3.00		2091			
3.8	0	836.499998	1.00		2091			
3.8	10	836.499996	-1.00		2091			
3.8	20	836.499997	0.00		2091			
3.8	30	836.499998	1.00		2091			
3.8	40	836.500003	6.00		2091			
3.8	50	836.500005	8.00		2091			



Referen	ce Frequency:	LTE B5 Mid Channel	836.5	MHz	5M QPSK CH 20525			
	Limit: ± -2.5 ppm = Hz							
Power Supply	Environment	Frequency	Dalta (Uz)					
Vdc	Temperature ()	(MHz)	Delta (Hz)		Limit (Hz)			
3.8	-30	836.499990	-5.00		2091			
3.8	-20	836.499994	-1.00		2091			
3.8	-10	836.499996	1.00		2091			
3.8	0	836.499998	3.00		2091			
3.8	10	836.499994	-1.00		2091			
3.8	20	836.499995	0.00		2091			
3.8	30	836.499998	3.00		2091			
3.8	40	836.500005	10.00		2091			
3.8	50	836.500004	9.00		2091			

Referen	ce Frequency:	LTE B5 Mid Channel	836.5	MHz	5M 16QAM CH 20525			
	Limit: ± -2.5 ppm = Hz							
Power Supply	Environment	Frequency			Limit (LL-)			
Vdc	Temperature ()	(MHz)	Delta (Hz)		Limit (Hz)			
3.8	-30	836.499992	-10.00		2091			
3.8	-20	836.499998	-4.00		2091			
3.8	-10	836.499993	-9.00		2091			
3.8	0	836.499996	-6.00		2091			
3.8	10	836.499999	-3.00		2091			
3.8	20	836.500002	0.00		2091			
3.8	30	836.500006	4.00		2091			
3.8	40	836.500004	2.00		2091			
3.8	50	836.500009	7.00		2091			



Referen	ce Frequency:	LTE B5 Mid Channel	836.5	MHz	10M QPSK CH 20525				
	Limit: ± -2.5 ppm = Hz								
Power Supply	Environment	Frequency			Limit (IIa)				
Vdc	Temperature ()	(MHz)	-Delta (Hz)		Limit (Hz)				
3.8	-30	836.499992	-10.00		2091				
3.8	-20	836.499994	-8.00		2091				
3.8	-10	836.499996	-6.00		2091				
3.8	0	836.499995	-7.00		2091				
3.8	10	836.499999	-3.00		2091				
3.8	20	836.500002	0.00		2091				
3.8	30	836.500003	1.00		2091				
3.8	40	836.500006	4.00		2091				
3.8	50	836.500002	0.00		2091				

Referen	ce Frequency:	LTE B5 Mid Channel	836.5	MHz	10M 16QAM CH 20525			
	Limit: +/- 2.5 ppm = Hz							
Power Supply	Environment	Frequency			Limit (Hz)			
Vdc	Temperature ()	(MHz)	-Delta (Hz)		Limit (Hz)			
3.8	-30	836.499993	-12.00		2091			
3.8	-20	836.499997	-8.00		2091			
3.8	-10	836.499999	-6.00		2091			
3.8	0	836.500002	-3.00		2091			
3.8	10	836.500003	-2.00		2091			
3.8	20	836.500005	0.00		2091			
3.8	30	836.500008	3.00		2091			
3.8	40	836.500002	-3.00		2091			
3.8	50	836.500006	1.00		2091			



Referen	ce Frequency:	LTE B7 Mid Channel	2535.0	MHz	5M QPSK CH 21100			
	Limit: +/- 2.5 ppm = Hz							
Power Supply	Environment	Frequency						
Vdc	Temperature ()	(MHz)	Delta (Hz)		Limit (Hz)			
3.8	-30	2535.000013	10.00		6338			
3.8	-20	2535.000005	2.00		6338			
3.8	-10	2535.000003	0.00		6338			
3.8	0	2535.000008	5.00		6338			
3.8	10	2535.000006	3.00		6338			
3.8	20	2535.000003	0.00		6338			
3.8	30	2535.000002	-1.00		6338			
3.8	40	2534.999997	-6.00		6338			
3.8	50	2534.999996	-7.00		6338			

Referen	ce Frequency:	LTE B7 Mid Channel	2535.0	MHz	5M 16QAM CH 21100			
	Limit: +/- 2.5 ppm = Hz							
Power Supply	Environment	Frequency	Dolto (Uz)		Limit (Hz)			
Vdc	Temperature ()	(MHz)	Delta (Hz)		Limit (Hz)			
3.8	-30	2535.000011	8.00		6338			
3.8	-20	2535.000004	1.00		6338			
3.8	-10	2535.000005	2.00		6338			
3.8	0	2534.999997	-6.00		6338			
3.8	10	2534.999997	-6.00		6338			
3.8	20	2535.000003	0.00		6338			
3.8	30	2535.000002	-1.00		6338			
3.8	40	2535.000003	0.00		6338			
3.8	50	2535.000006	3.00		6338			



Referen	ce Frequency:	LTE B7 Mid Channel	2535.0	MHz	10M QPSK CH 21100		
	Limit: +/- 2.5 ppm = Hz						
Power Supply	Environment	Frequency	Delta		Limit (Uz)		
Vdc	Temperature ()	(MHz)	(Hz)		Limit (Hz)		
3.8	-30	2534.999996	-6.00		6338		
3.8	-20	2534.999998	-4.00		6338		
3.8	-10	2535.000003	1.00		6338		
3.8	0	2535.000002	0.00		6338		
3.8	10	2535.000005	3.00		6338		
3.8	20	2535.000002	0.00		6338		
3.8	30	2535.000007	5.00		6338		
3.8	40	2535.000003	1.00		6338		
3.8	50	2535.000005	3.00		6338		

Referen	ce Frequency:	LTE B7 Mid Channel	2535.0	MHz	10M 16QAM CH 21100				
	Limit: +/- 2.5 ppm = Hz								
Power Supply	Environment	Frequency	Delta		Limit (Hz)				
Vdc	Temperature	(MHz)	(Hz)		Limit (Hz)				
3.8	-30	2535.000009	6.00		6338				
3.8	-20	2535.000003	0.00		6338				
3.8	-10	2535.000004	1.00		6338				
3.8	0	2535.000001	-2.00		6338				
3.8	10	2535.000003	0.00		6338				
3.8	20	2535.000003	0.00		6338				
3.8	30	2535.000004	1.00		6338				
3.8	40	2535.000005	2.00		6338				
3.8	50	2535.000002	-1.00		6338				



Referen	ce Frequency:	LTE B7 Mid Channel	2535.0	MHz	15M QPSK CH 21100				
	Limit: ± -2.5 ppm = Hz								
Power Supply	Environment	Frequency	Delta		I ::: (II_)				
Vdc	Temperature ()	(MHz)	(Hz)		Limit (Hz)				
3.8	-30	2535.000013	10.00		6338				
3.8	-20	2535.000003	0.00		6338				
3.8	-10	2535.000004	1.00		6338				
3.8	0	2535.000003	0.00		6338				
3.8	10	2535.000003	0.00		6338				
3.8	20	2535.000003	0.00		6338				
3.8	30	2535.000005	2.00		6338				
3.8	40	2535.000006	3.00		6338				
3.8	50	2535.000002	-1.00		6338				

Referen	ce Frequency:	LTE B7 Mid Channel	2535.0	MHz	15M 16QAM CH 21100				
	Limit: ± -2.5 ppm = Hz								
Power Supply	Environment	Frequency	Delta		Limit (IIz)				
Vdc	Temperature ()	(MHz)	(Hz)		Limit (Hz)				
3.8	-30	2534.999995	-6.00		6338				
3.8	-20	2534.999998	-3.00		6338				
3.8	-10	2535.000003	2.00		6338				
3.8	0	2535.000003	2.00		6338				
3.8	10	2535.000005	4.00		6338				
3.8	20	2535.000001	0.00		6338				
3.8	30	2535.000004	3.00		6338				
3.8	40	2535.000005	4.00		6338				
3.8	50	2535.000003	2.00		6338				



Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz	20M QPSK CH 21100
		Limit: +/- 2.5 pp	n = Hz		
Power Supply	Environment	Frequency	Delta		Limit (IIa)
Vdc	Temperature ()	(MHz)	(Hz)		Limit (Hz)
3.8	-30	2534.999985	-17.00		6338
3.8	-20	2534.999987	-15.00		6338
3.8	-10	2534.999995	-7.00		6338
3.8	0	2535.000003	1.00		6338
3.8	10	2534.999999	-3.00		6338
3.8	20	2535.000002	0.00		6338
3.8	30	2535.000003	1.00		6338
3.8	40	2535.000006	4.00		6338
3.8	50	2535.000003	1.00		6338

Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz	20M 16QAM CH 21100
		Limit: +/- 2.5 ppr	n = Hz		
Power Supply	Environment	Frequency	Delta	Delta	
Vdc	Temperature ()	(MHz)	(Hz)		Limit (Hz)
3.8	-30	2535.000012	9.00		6338
3.8	-20	2535.000003	0.00		6338
3.8	-10	2534.999997	-6.00		6338
3.8	0	2534.999996	-7.00		6338
3.8	10	2534.999994	-9.00		6338
3.8	20	2535.000003	0.00		6338
3.8	30	2535.000003	0.00		6338
3.8	40	2535.000002	-1.00		6338
3.8	50	2535.000003	0.00		6338

Note: The battery is rated 3.8V dc.



12. FREQUENCY STABILITY V.S. VOLTAGE MEASUREMENT

12.1. Standard Applicable:

According to FCC §2.1055(d) (2)

Frequency Tolerance: +/-2.5ppm for 850MHz band

+/-2.5ppm for 1900MHz band

+/-2.5ppm for 1700MHz band

+/-2.5ppm for 700MHz band

+/-2.5ppm for 2500MHz band

12.2. Test Set-up:

Refer to section 11.2 in this report

12.3. Measurement Procedure:

Set chamber temperature to 25 . Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint as declared by the manufacturer, record the maximum frequency change.

12.4. Measurement Equipment Used:

Refer to section 2.4 in this report

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

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12.5. Measurement Result:

GPRS850

Reference Frequency: GPRS 850 Mid Channel 836.6 MHz								
	Limit: +/- 2.5 ppm = Hz							
Power Supply	Power Supply Environment Frequency							
Vdc	Temperature ()	(MHz)	Delta (Hz)	Limit (Hz)				
4.35	25	836.599991	6	2091				
3.8	25	836.599985	0	2091				
3.4	25	836.599975	-10	2091				
2.9	25	826 500020	52	2001				
(End point)	25	836.599932	-53	2091				

GPRS1900

Reference Frequency: GPRS 1900 Mid Channel 1880 MHz								
	Limit: +/- 2.5 ppm = Hz							
Power Supply Environment Frequency								
Vdc	Temperature ()(MHz)Delta (Hz)		Della (HZ)	Limit (Hz)				
4.35	25	1879.999984	-5	4700				
3.8	25	1879.999989	0	4700				
3.4	25	1879.999988	-1	4700				
2.9	25	1870 000045	4.4	4700				
(End point)	25	1879.999945	-44	4700				



WCDMA II

Reference Frequency: WCDMA II Mid Channel 1880 MHz								
	Limit: +/- 2.5 ppm = Hz							
Power Supply	pply Environment Frequency Date (II-)							
Vdc	Temperature ()	(MHz)	Delta (Hz)	Limit (Hz)				
4.35	25	1880.000009	6	4700				
3.8	25	1880.000003	0	4700				
3.4	25	1879.999988	-15	4700				
2.9	25	1070 000050	45	1700				
(End point)	25	1879.999958	-45	4700				

WCDMA IV

Reference Frequency: WCDMA IV Mid Channel 1732.6 MHz								
	Limit: +/- 2.5 ppm = Hz							
Power Supply	Environment Frequency							
Vdc	Temperature ()	(MHz)	Delta (Hz)	Limit (Hz)				
4.35	25	1732.59990	9	4331				
3.8	25	1732.59981	0	4331				
3.4	25	1732.59987	6	4331				
2.9	25	1722 50040	41	4221				
(End point)	25	1732.59940	-41	4331				

WCDMA V

Reference Frequency: WCDMA V Mid Channel 836.6 MHz								
	Limit: +/- 2.5 ppm = Hz							
Power Supply	Environment Frequency							
Vdc	Temperature ()	(MHz)	Delta (Hz)	Limit (Hz)				
4.35	25	836.600011	5	2091				
3.8	25	836.600006	0	2091				
3.4	25	836.599988	-18	2091				
2.9	25	006 500050	5 4	2001				
(End point)	25	836.599952	-54	2091				



Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz 1.4M QPSK CH 18900			
	Limit: +/- 2.5 ppm = Hz						
Power Sup- ply	Environment	Frequency					
Vdc	Temperature	(MHz)	Delta (Hz)	Limit (Hz)			
4.35	25	1880.000003	0.00	4700			
3.8	25	1880.000003	0.00	4700			
3.40	25	1880.000004	1.00	4700			
2.9 (End Point)	25	1880.000034	31.00	4700			

Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz 1.4M 16 QAM CH 18900			
	Limit: +/- 2.5 ppm = Hz						
Power Sup- ply	Environment	Frequency					
Vdc	Temperature	(MHz)	Delta (Hz)	Limit (Hz)			
4.35	25	1880.000003	-1.00	4700			
3.8	25	1880.000004	0.00	4700			
3.40	25	1880.000002	-2.00	4700			
2.9 (End Point)	25	1880.000038	34.00	4700			



Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz 3M QPSK CH 18900			
	Limit: +/- 2.5 ppm = Hz						
Power Sup- ply	Environment	Frequency					
Vdc	Temperature	(MHz)	Delta (Hz)	Limit (Hz)			
4.35	25	1880.000003	0.00	4700			
3.8	25	1880.000003	0.00	4700			
3.40	25	1880.000006	3.00	4700			
2.9 (End Point)	25	1880.000042	39.00	4700			

Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz 3M 16 QAM CH 18900				
	Limit: +/- 2.5 ppm = Hz							
Power Sup- ply	Environment	Frequency						
Vdc	Temperature	(MHz)	Delta (Hz)	Limit (Hz)				
4.35	25	1880.000004	1.00	4700				
3.8	25	1880.000003	0.00	4700				
3.40	25	1880.000002	-1.00	4700				
2.9 (End Point)	25	1880.000034	31.00	4700				



Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz 5M QPSK CH 18900				
	Limit: +/- 2.5 ppm = Hz							
Power Sup- ply	Environment	Frequency						
Vdc	Temperature	(MHz)	Delta (Hz)	Limit (Hz)				
4.35	25	1880.000004	1.00	4700				
3.8	25	1880.000003	0.00	4700				
3.40	25	1880.000002	-1.00	4700				
2.9 (End Point)	25	1880.000042	39.00	4700				

Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz 5M 16 QAM CH 18900		
	Limit: +/- 2.5 ppm = Hz					
Power Sup- ply	Environment	Frequency				
Vdc	Temperature ()	(MHz)	Delta (Hz)	Limit (Hz)		
4.35	25	1880.000002	-1.00	4700		
3.8	25	1880.000003	0.00	4700		
3.40	25	1880.000004	1.00	4700		
2.9 (End Point)	25	1880.000035	32.00	4700		



Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz 10M QPSK CH 18900		
	Limit: +/- 2.5 ppm = Hz					
Power Sup- ply	Environment	Frequency				
Vdc	Temperature	(MHz)	Delta (Hz)	Limit (Hz)		
4.35	25	1880.000005	1.00	4700		
3.8	25	1880.000004	0.00	4700		
3.40	25	1880.000005	1.00	4700		
2.9 (End Point)	25	1880.000048	44.00	4700		

Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz 10M 16 QAM CH 18900		
	Limit: +/- 2.5 ppm = Hz					
Power Sup- ply	Environment	Frequency				
Vdc	Temperature	(MHz)	Delta (Hz)	Limit (Hz)		
4.35	25	1880.000002	-1.00	4700		
3.8	25	1880.000003	0.00	4700		
3.40	25	1880.000004	1.00	4700		
2.9 (End Point)	25	1880.000045	42.00	4700		



Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz 15M QPSK CH 18900		
	Limit: +/- 2.5 ppm = Hz					
Power Sup- ply	Environment	Frequency				
Vdc	Temperature	(MHz)	Delta (Hz)	Limit (Hz)		
4.35	25	1880.000007	3.00	4700		
3.8	25	1880.000004	0.00	4700		
3.40	25	1880.000005	1.00	4700		
2.9 (End Point)	25	1880.000044	40.00	4700		

Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz 15M 16 QAM CH 18900		
	Limit: +/- 2.5 ppm = Hz					
Power Sup- ply	Environment	Frequency				
Vdc	Temperature	(MHz)	Delta (Hz)	Limit (Hz)		
4.35	25	1880.000003	-4.00	4700		
3.8	25	1880.000007	0.00	4700		
3.40	25	1880.000004	-3.00	4700		
2.9 (End Point)	25	1880.000056	49.00	4700		

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Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz 20M QPSK CH 18900
		Limit: +/- 2.5	ppm = Hz	
Power Sup- ply	Environment	Frequency		
Vdc	Temperature	(MHz)	Delta (Hz)	Limit (Hz)
4.35	25	1880.000004	0.00	4700
3.8	25	1880.000004	0.00	4700
3.40	25	1880.000003	-1.00	4700
2.9 (End Point)	25	1880.000036	32.00	4700

Reference Frequency:		LTE B2 Mid Channel	1880.0	MHz 20M 16 QAM CH 18900		
	Limit: +/- 2.5 ppm = Hz					
Power Sup- ply	Environment	Frequency				
Vdc	Temperature	(MHz)	Delta (Hz)	Limit (Hz)		
4.35	25	1880.000003	-3.00	4700		
3.8	25	1880.000006	0.00	4700		
3.40	25	1880.000004	-2.00	4700		
2.9 (End Point)	25	1880.000033	27.00	4700		



Reference Frequency:		LTE B4 Mid Channel	1732.5	MHz 1.4M QPSK CH 20175		
	Limit: +/- 2.5 ppm = Hz					
Power Sup- ply	Environment	Frequency				
Vdc	Temperature	(MHz)	Delta (Hz)	Limit (Hz)		
4.25	25	1732.499994	-3.00	4331		
3.7	25	1732.499997	0.00	4331		
3.15	25	1732.499995	-2.00	4331		
2.9 (End Point)	25	1732.499964	-33.00	4331		

Reference Frequency:		LTE B4 Mid Channel	1732.5	MHz 1.4M 16 QAM CH 20175		
	Limit: +/- 2.5 ppm = Hz					
Power Sup- ply	Environment	Frequency				
Vdc	Temperature	(MHz)	Delta (Hz)	Limit (Hz)		
4.35	25	1732.499993	-1.00	4331		
3.8	25	1732.499994	0.00	4331		
3.40	25	1732.499996	2.00	4331		
2.9 (End Point)	25	1732.499967	-27.00	4331		



Reference Frequency:		LTE B4 Mid Channel	1732.5	MHz 3M QPSK CH 20175		
	Limit: +/- 2.5 ppm = Hz					
Power Sup- ply	Environment	Frequency				
Vdc	Temperature	(MHz)	Delta (Hz)	Limit (Hz)		
4.25	25	1732.499991	-3.00	4331		
3.7	25	1732.499994	0.00	4331		
3.15	25	1732.499992	-2.00	4331		
2.9 (End Point)	25	1732.499958	-36.00	4331		

Reference Frequency:		LTE B4 Mid Channel	1732.5	MHz 3M 16 QAM CH 20175
		Limit: +/- 2.	5 ppm = Hz	
Power Sup- ply	Environment	Frequency		
Vdc	Temperature ()	(MHz)	Delta (Hz)	Limit (Hz)
4.35	25	1732.499992	-2.00	4331
3.8	25	1732.499994	0.00	4331
3.40	25	1732.499993	-1.00	4331
2.9 (End Point)	25	1732.499956	-38.00	4331



Reference Frequency:		LTE B4 Mid Channel	1732.5	MHz 5M QPSK CH 20175		
	Limit: +/- 2.5 ppm = Hz					
Power Sup- ply	Environment	Frequency				
Vdc	Temperature	(MHz)	Delta (Hz)	Limit (Hz)		
4.25	25	1732.499997	3.00	4331		
3.7	25	1732.499994	0.00	4331		
3.15	25	1732.499996	2.00	4331		
2.9 (End Point)	25	1732.499992	-2.00	4331		

Reference Frequency:		LTE B4 Mid Channel	1732.5	MHz 5M 16 QAM CH 20175		
	Limit: +/- 2.5 ppm = Hz					
Power Sup- ply	Environment	Frequency				
Vdc	Temperature	(MHz)	Delta (Hz)	Limit (Hz)		
4.35	25	1732.499998	1.00	4331		
3.8	25	1732.499997	0.00	4331		
3.40	25	1732.499997	0.00	4331		
2.9 (End Point)	25	1732.499992	-5.00	4331		



Reference Frequency:		LTE B4 Mid Channel	1732.5	MHz 10M QPSK CH 20175		
	Limit: +/- 2.5 ppm = Hz					
Power Sup- ply	Environment	Frequency				
Vdc	Temperature	(MHz)	Delta (Hz)	Limit (Hz)		
4.25	25	1732.499996	1.00	4331		
3.7	25	1732.499995	0.00	4331		
3.15	25	1732.499998	3.00	4331		
2.9 (End Point)	25	1732.499994	-1.00	4331		

Reference Frequency:		LTE B4 Mid Channel	1732.5	MHz 10M 16 QAM CH 20175		
	Limit: +/- 2.5 ppm = Hz					
Power Sup- ply	Environment	Frequency				
Vdc	Temperature	(MHz)	Delta (Hz)	Limit (Hz)		
4.35	25	1732.499999	2.00	4331		
3.8	25	1732.499997	0.00	4331		
3.40	25	1732.499996	-1.00	4331		
2.9 (End Point)	25	1732.499991	-6.00	4331		



Reference Frequency:		LTE B4 Mid Channel	1732.5	MHz 15M QPSK CH 20175		
	Limit: +/- 2.5 ppm = Hz					
Power Sup- ply	Environment	Frequency				
Vdc	Temperature	(MHz)	Delta (Hz)	Limit (Hz)		
4.25	25	1732.499995	2.00	4331		
3.7	25	1732.499993	0.00	4331		
3.15	25	1732.499994	1.00	4331		
2.9 (End Point)	25	1732.499991	-2.00	4331		

Reference Frequency:		LTE B4 Mid Channel	1732.5	MHz 15M 16 QAM CH 20175		
	Limit: +/- 2.5 ppm = Hz					
Power Sup- ply	Environment	Frequency				
Vdc	Temperature	(MHz)	Delta (Hz)	Limit (Hz)		
4.35	25	1732.499994	-1.00	4331		
3.8	25	1732.499995	0.00	4331		
3.40	25	1732.499993	-2.00	4331		
2.9 (End Point)	25	1732.499991	-4.00	4331		



Reference	Frequency:	LTE B4 Mid Channel	1732.5	MHz 20M QPSK CH 20175		
	Limit: ± -2.5 ppm = Hz					
Power Sup- ply	Environment	Frequency				
Vdc	Temperature	(MHz)	Delta (Hz)	Limit (Hz)		
4.25	25	1732.499999	1.00	4331		
3.7	25	1732.499998	0.00	4331		
3.15	25	1732.499992	-6.00	4331		
2.9 (End Point)	25	1732.499991	-7.00	4331		

Reference Frequency:		LTE B4 Mid Channel	1732.5	MHz 20M 16 QAM CH 20175		
	Limit: +/- 2.5 ppm = Hz					
Power Sup- ply	Environment	Frequency				
Vdc	Temperature	(MHz)	Delta (Hz)	Limit (Hz)		
4.35	25	1732.499994	-2.00	4331		
3.8	25	1732.499996	0.00	4331		
3.40	25	1732.499997	1.00	4331		
2.9 (End Point)	25	1732.499993	-3.00	4331		



Reference	Frequency:	LTE B5 Mid Channel	836.5	MHz 1.4M QPSK CH 20525		
	Limit: +/- 2.5 ppm = Hz					
Power Sup- ply	Environment	Frequency				
Vdc	Temperature	(MHz)	Delta (Hz)	Limit (Hz)		
4.35	25	836.499994	-2.00	2091		
3.8	25	836.499996	0.00	2091		
3.40	25	836.499997	1.00	2091		
2.9 (End Point)	25	836.499954	-42.00	2091		

Reference Frequency:		LTE B5 Mid Channel	836.5	MHz 1.4M 16 QAM CH 20525		
	Limit: +/- 2.5 ppm = Hz					
Power Sup- ply	Environment	Frequency				
Vdc	Temperature	(MHz)	Delta (Hz)	Limit (Hz)		
4.35	25	836.499992	-2.00	2091		
3.8	25	836.499994	0.00	2091		
3.40	25	836.499996	2.00	2091		
2.9 (End Point)	25	836.499969	-25.00	2091		



Reference	Frequency:	LTE B5 Mid Channel	836.5	MHz 3M QPSK CH 20525		
	Limit: +/- 2.5 ppm = Hz					
Power Sup- ply	Environment	Frequency				
Vdc	Temperature	(MHz)	Delta (Hz)	Limit (Hz)		
4.35	25	836.499992	-1.00	2091		
3.8	25	836.499993	0.00	2091		
3.40	25	836.499998	5.00	2091		
2.9 (End Point)	25	836.499956	-37.00	2091		

Reference Frequency:		LTE B5 Mid Channel	836.5	MHz 3M 16 QAM CH 20525		
	Limit: ± -2.5 ppm = Hz					
Power Sup- ply	Environment	Frequency				
Vdc	Temperature ()	(MHz)	Delta (Hz)	Limit (Hz)		
4.35	25	836.499990	-4.00	2091		
3.8	25	836.499994	0.00	2091		
3.40	25	836.499996	2.00	2091		
2.9 (End Point)	25	836.499966	-28.00	2091		



Reference	Frequency:	LTE B5 Mid Channel	836.5	MHz 5M QPSK CH 20525		
	Limit: +/- 2.5 ppm = Hz					
Power Sup- ply	Environment	Frequency				
Vdc	Temperature	(MHz)	Delta (Hz)	Limit (Hz)		
4.35	25	836.499992	-5.00	2091		
3.8	25	836.499997	0.00	2091		
3.40	25	836.499999	2.00	2091		
2.9 (End Point)	25	836.499954	-43.00	2091		

Reference Frequency:		LTE B5 Mid Channel	836.5	MHz 5M 16 QAM CH 20525		
	Limit: +/- 2.5 ppm = Hz					
Power Sup- ply	Environment	Frequency				
Vdc	Temperature	(MHz)	Delta (Hz)	Limit (Hz)		
4.35	25	836.499994	-3.00	2091		
3.8	25	836.499997	0.00	2091		
3.40	25	836.499998	1.00	2091		
2.9 (End Point)	25	836.499962	-35.00	2091		



Reference Frequency:		LTE B5 Mid Channel	836.5	MHz 10M QPSK CH 20525		
	Limit: +/- 2.5 ppm = Hz					
Power Sup- ply	Environment	Frequency				
Vdc	Temperature	(MHz)	Delta (Hz)	Limit (Hz)		
4.35	25	836.499992	-1.00	2091		
3.8	25	836.499993	0.00	2091		
3.40	25	836.499996	3.00	2091		
2.9 (End Point)	25	836.499967	-26.00	2091		

Reference Frequency:		LTE B5 Mid Channel	836.5	MHz 10M 16 QAM CH 20525
		Limit: +/- 2.	5 ppm = Hz	
Power Sup- ply	Environment	Frequency		
Vdc	Temperature	(MHz)	Delta (Hz)	Limit (Hz)
4.35	25	836.499995	-4.00	2091
3.8	25	836.499999	0.00	2091
3.40	25	836.499998	-1.00	2091
2.9 (End Point)	25	836.499967	-32.00	2091



Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz 5M QPSK CH 21100		
	Limit: +/- 2.5 ppm = Hz					
Power Sup- ply	Environment	Frequency				
Vdc	Temperature	(MHz)	Delta (Hz)	Limit (Hz)		
4.35	25	2535.000004	1.00	6338		
3.8	25	2535.000003	0.00	6338		
3.40	25	2535.000003	0.00	6338		
2.9 (End Point)	25	2535.000055	52.00	6338		

Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz 5M 16 QAM CH 21100		
	Limit: +/- 2.5 ppm = Hz					
Power Sup- ply	Environment	Frequency				
Vdc	Temperature	(MHz)	Delta (Hz)	Limit (Hz)		
4.35	25	2535.000003	1.00	6338		
3.8	25	2535.000002	0.00	6338		
3.40	25	2535.000003	1.00	6338		
2.9 (End Point)	25	2535.000040	38.00	6338		



Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz 10M QPSK CH 21100
		Limit: +/- 2.5	5 ppm = Hz	
Power Sup- ply	Environment	Frequency		
Vdc	Temperature	(MHz)	Delta (Hz)	Limit (Hz)
4.35	25	2535.000008	7.00	6338
3.8	25	2535.000001	0.00	6338
3.40	25	2535.000004	3.00	6338
2.9 (End Point)	25	2535.000045	44.00	6338

Reference	Frequency:	LTE B7 Mid Channel	2535.0	MHz 10M 16 QAM CH 21100		
	Limit: +/- 2.5 ppm = Hz					
Power Sup- ply	Environment	Frequency				
Vdc	Temperature ()	(MHz)	Delta (Hz)	Limit (Hz)		
4.35	25	2535.000004	3.00	6338		
3.8	25	2535.000001	0.00	6338		
3.40	25	2535.000003	2.00	6338		
2.9 (End Point)	25	2535.000037	36.00	6338		



Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz 15M QPSK CH 21100		
	Limit: +/- 2.5 ppm = Hz					
Power Sup- ply	Environment	Frequency				
Vdc	Temperature	(MHz)	Delta (Hz)	Limit (Hz)		
4.35	25	2535.000003	0.00	6338		
3.8	25	2535.000003	0.00	6338		
3.40	25	2535.000002	-1.00	6338		
2.9 (End Point)	25	2535.000038	35.00	6338		

Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz 15M 16 QAM CH 21100
		Limit: +/- 2.	5 ppm = Hz	
Power Sup- ply	Environment	Frequency		
Vdc	Temperature	(MHz)	Delta (Hz)	Limit (Hz)
4.35	25	2535.000003	1.00	6338
3.8	25	2535.000002	0.00	6338
3.40	25	2535.000004	2.00	6338
2.9 (End Point)	25	2535.000042	40.00	6338



Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz 20M QPSK CH 21100		
	Limit: +/- 2.5 ppm = Hz					
Power Sup- ply	Environment	Frequency				
Vdc	Temperature	(MHz)	Delta (Hz)	Limit (Hz)		
4.35	25	2535.000003	1.00	6338		
3.8	25	2535.000002	0.00	6338		
3.40	25	2535.000003	1.00	6338		
2.9 (End Point)	25	2535.000030	28.00	6338		

Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz 20M 16 QAM CH 21100		
	Limit: +/- 2.5 ppm = Hz					
Power Sup- ply	Environment	Frequency				
Vdc	Temperature	(MHz)	Delta (Hz)	Limit (Hz)		
4.35	25	2535.000002	0.00	6338		
3.8	25	2535.000002	0.00	6338		
3.40	25	2535.000002	0.00	6338		
2.9 (End Point)	25	2535.000032	30.00	6338		



13. PEAK TO AVERAGE RATIO

13.1. Standard Applicable:

According FCC 24.232(d), FCC 27.53 (d) (5) – The peak-to-average ration (PAR) of the transmission may not exceed 13dB.

13.2. Test SET-UP (Block Diagram of Configuration):

Refer to section 2.4 in this report

13.3. Measurement Procedure:

KDB 971168 D01 is employed as the following procedure is proper adjusted accordingly: Set resolution/measurement bandwidth \geq signal's occupied bandwidth; & internal =1ms Set the number of counts to a value that stabilizes the measured CCDF curve.

13.4. Measurement Equipment Used:

Refer to section 2.4 in this report

13.5. Measurement Result:

Refer to next page for tabular, and plot results

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13.5.1 Tabular Results:

	Peak-to-Average Ratio						
	Channel 128(L)		Channel 190(M)		Channel 251(H)		
TEST	824.2MHz		836.6MHz		848.8MHz		
CONDITIONS	dB		dB		dB		
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit	
GSM 850	9.89	13	9.62	13	9.94	13	
GPRS 850	11.49	13	10.74	13	9.41	13	
EDGE 850	11.16	13	12.27	13	11.45	13	

	Peak-to-Average Ratio						
	Channel 512(L)		Channel 661(M)		Channel 810(H)		
TEST	1850.2MHz		1880.0MHz		1909.8MHz		
CONDITIONS	dB		dB		dB		
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit	
GSM 1900	9.84	13	9.00	13	9.48	13	
GPRS 1900	9.25	13	10.15	13	9.92	13	
EDGE 1900	11.63	13	12.24	13	11.13	13	

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		Peak-to-Average Ratio						
	Channel 9262(L)		Channel	Channel 9400(M)		9538(H)		
TEST	1852.4MHz		1880.0MHz		1907.6MHz			
CONDITIONS	dB		dB		dB			
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit		
WCDMA Band II	3.00	13	2.87	13	2.49	13		
HSDPA Band II	3.64	13	3.60	13	3.54	13		
HSUPA Band II	3.58	13	3.52	13	3.65	13		

	Peak-to-Average Ratio						
	Channel 1312(L)		Channel 1413(M)		Channel 1513(H)		
TEST	1712.4MHz		1732.6MHz		1752.6MHz		
CONDITIONS	dB		dB		dB		
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit	
WCDMA Band IV	2.99	13	3.01	13	2.95	13	
HSDPA Band IV	3.70	13	3.58	13	3.83	13	
HSUPA Band IV	3.85	13	3.89	13	3.68	13	

	Peak-to-Average Ratio						
	Channel 4132(L)		Channel 4183(M)		Channel 4233(H)		
TEST	826.4MHz		836.6MHz		846.6MHz		
CONDITIONS	dB		dB		dB		
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit	
WCDMA Band V	3.18	13	3.11	13	3.13	13	
HSDPA Band V	3.89	13	3.62	13	3.57	13	
HSUPA Band V	3.99	13	3.74	13	3.79	13	



	Peak-to-Average Ratio						
	Channel 18607(L)		Channel 1	Channel 18900(M)		Channel 19193(H)	
TEST	1850.7MHz		1880.0MHz		1909.3MHz		
CONDITIONS	d	В	dB		dB		
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit	
BAND 2/BW:1.4M	5.62	13	5.83	13	5.12	13	

	Peak-to-Average Ratio					
	Channel	18615(L)	Channel 18900(M)		Channel 19185(H)	
TEST	1851.5MHz		1880.0MHz		1908.5MHz	
CONDITIONS	d	В	dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 2/BW:3M	5.65	13	5.88	13	5.39	13

	Peak-to-Average Ratio						
	Channel 19975(L)		Channel 2	Channel 20175(M)		Channel 20375(H)	
TEST	1852.5MHz		1880.0MHz		1907.5 MHz		
CONDITIONS	d	В	dB		dB		
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit	
BAND 2/BW:5M	5.94	13	6.00	13	5.77	13	



	Peak-to-Average Ratio						
	Channel 20000 (L)		Channel 2	Channel 20175(M)		Channel 20350 (H)	
TEST	1855.0 MHz		1880.0 MHz		1905.0 MHz		
CONDITIONS	d	В	dB		dB		
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit	
BAND 2/BW:10M	6.10	13	6.10	13	6.14	13	

	Peak-to-Average Ratio					
	Channel 20025(L)		Channel 20175(M)		Channel 20325(H)	
TEST	1857.5 MHz		1880.0 MHz		1902.5 MHz	
CONDITIONS	d	В	dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 2/BW:15M	6.61	13	6.59	13	6.66	13

	Peak-to-Average Ratio					
	Channel 20050(L)		Channel 20175(M)		Channel 20300(H)	
TEST	1860.0 MHz		1880.0 MHz		1900.0 MHz	
CONDITIONS	d	В	dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 2/BW:20M	6.96	13	7.01	13	6.98	13



	Peak-to-Average Ratio					
	Channel	19957(L)	Channel 20175(M)		Channel 20393(H)	
TEST	1710.7MHz		1732.5MHz		1754.3MHz	
CONDITIONS	d	В	dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 4/BW:1.4M	6.17	13	5.96	13	5.80	13

	Peak-to-Average Ratio					
	Channel	19965(L)	Channel 20175(M)		Channel 20385(H)	
TEST	1711.5MHz		1732.5MHz		1753.5MHz	
CONDITIONS	d	В	dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 4/BW:3M	6.06	13	6.02	13	5.91	13

	Peak-to-Average Ratio						
	Channel	19975(L)	Channel 2	Channel 20175(M)		Channel 20375(H)	
TEST	1712.5MHz		1732.5MHz		1752.5MHz		
CONDITIONS	d	В	dB		dB		
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit	
BAND 4/BW:5M	6.15	13	6.24	13	6.11	13	



	Peak-to-Average Ratio						
	Channel 20000 (L)		Channel 2	Channel 20175(M)		Channel 20350 (H)	
TEST	1715.0MHz		1732.5MHz		1750MHz		
CONDITIONS	d	В	dB		dB		
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit	
BAND 4/BW:10M	6.18	13	6.18	13	6.38	13	

	Peak-to-Average Ratio					
	Channel 20025(L)		Channel 20175(M)		Channel 20325(H)	
TEST	1717.5MHz		1732.5MHz		1747.5MHz	
CONDITIONS	d	В	dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 4/BW:15M	6.65	13	6.68	13	6.80	13

	Peak-to-Average Ratio					
	Channel 20050(L)		Channel 20175(M)		Channel 20300(H)	
TEST	1720.0MHz		1732.5MHz		1745.0MHz	
CONDITIONS	d	В	dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 4/BW:20M	7.04	13	7.21	13	7.14	13



	Peak-to-Average Ratio						
	Channel	20407(L)	Channel 20525(M)		Channel 20643(H)		
TEST	TEST		824.7MHz		836.5MHz		
CONDITIONS	d	В	dB		dB		
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit	
BAND 5/BW:1.4M	6.84	13	6.67	13	6.45	13	

	Peak-to-Average Ratio					
	Channel 2	20415 (L)	Channel 20525 (M)		Channel 20635 (H)	
TEST	825.5MHz		836.5MHz		847.5MHz	
CONDITIONS	d	В	dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 5/BW:3M	6.64	13	6.59	13	6.44	13

	Peak-to-Average Ratio						
	Channel	20425(L)	Channel 2	Channel 20525(M)		Channel 20625(H)	
TEST	826.5MHz		836.5MHz		846.5MHz		
CONDITIONS	d	В	dB		dB		
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit	
BAND 5/BW:5M	6.63	13	6.67	13	6.73	13	

	Peak-to-Average Ratio						
	Channel 2	20450 (L)	Channel 20525(M)		Channel 20600 (H)		
TEST	829.0MHz		836.5MHz		844.0MHz		
CONDITIONS	d	В	dB		dB		
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit	
BAND 5/BW:10M	6.41	13	6.60	13	6.61	13	



	Peak-to-Average Ratio					
	Channel 20775(L)		Channel 21100(M)		Channel 21425(H)	
TEST	2502.5MHz		2535.0MHz		2567.5MHz	
CONDITIONS	d	В	dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 7/BW:5M	6.29	13	6.33	13	6.11	13

	Peak-to-Average Ratio						
	Channel 20800 (L)		Channel 21100(M)		Channel 21375 (H)		
TEST	2505.0MHz		2535.0MHz		2565.0MHz		
CONDITIONS	d	В	dB		dB		
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit	
BAND 7/BW:10M	6.33	13	6.18	13	6.14	13	

	Peak-to-Average Ratio						
	Channel	20825(L)	Channel 21100(M)		Channel 21375(H)		
TEST	2507.5MHz		2535.0MHz		2562.5MHz		
CONDITIONS	d	В	dB		dB		
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit	
BAND 7/BW:15M	6.61	13	6.50	13	6.53	13	

	Peak-to-Average Ratio					
	Channel 20850 (L)		Channel 21100(M)		Channel 21350 (H)	
TEST	2510.0MHz		2535.0MHz		2560.0MHz	
CONDITIONS	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 7/BW:20M	7.07	13	7.08	13	6.99	13



13.5.2 Measurement Results:

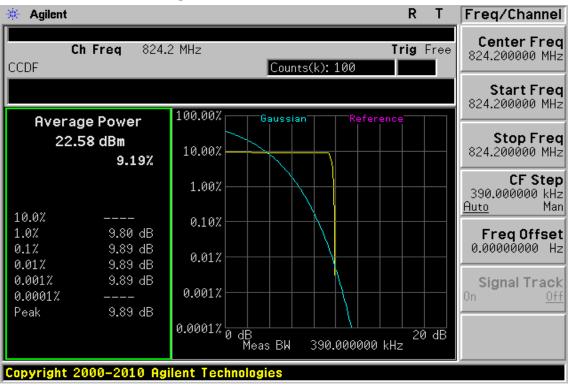
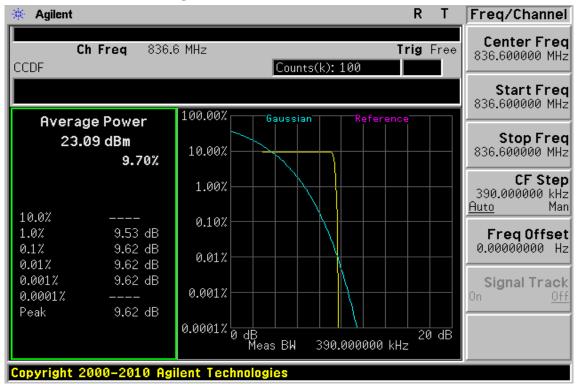


Figure 13-1: GSM 850 Channel Low

Figure 13-2: GSM 850 Channel Mid



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Figure 13-3: GSM 850 Channel High

Figure 13-4: GSM 1900 Channel Low

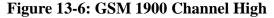


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Figure 13-5: GSM 1900 Channel Mid





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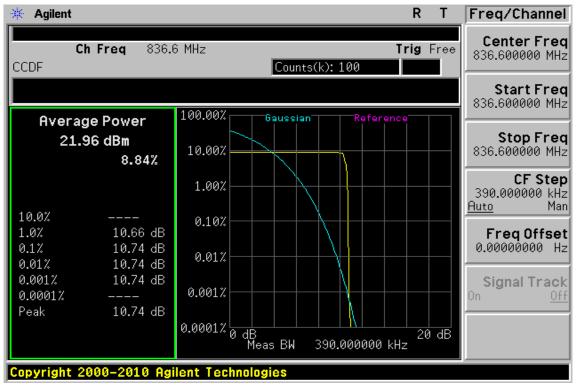
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Figure 13-7: GPRS 850 Channel Low

Figure 13-8: GPRS 850 Channel Mid



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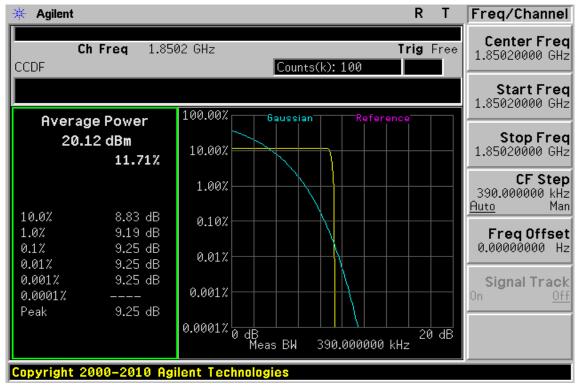
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Figure 13-9: GPRS 850 Channel High

Figure 13-10: GPRS 1900 Channel Low



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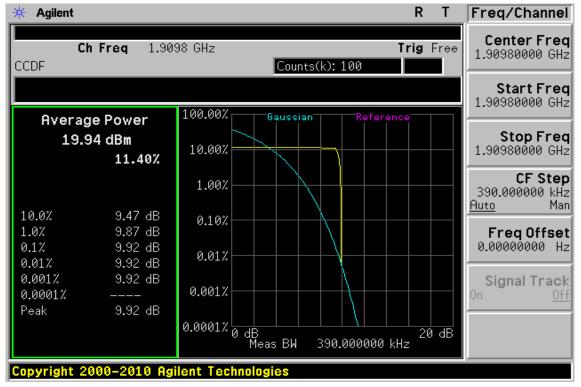
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Figure 13-11 GPRS 1900 Channel Mid

Figure 13-12: GPRS 1900 Channel High



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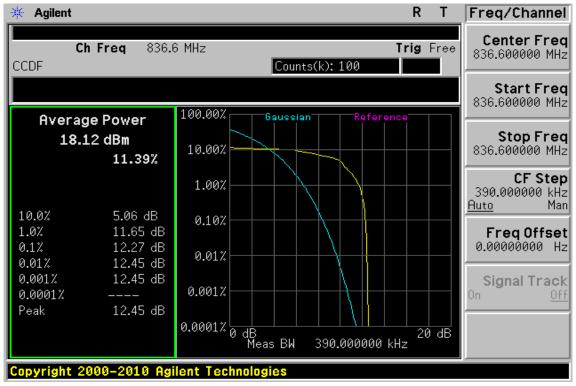
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Figure 13-13: EDGE 850 Channel Low

Figure 13-14 EDGE 850 Channel Mid



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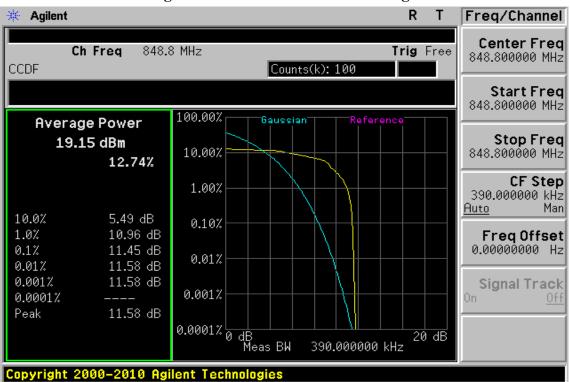
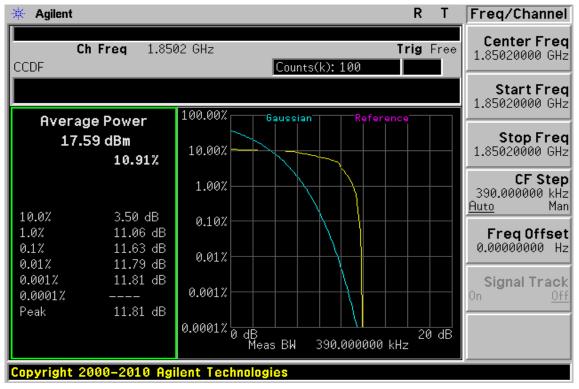


Figure 13-15: EDGE 850 Channel High

Figure 13-16: EDGE 1900 Channel Low



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Figure 13-17 EDGE 1900 Channel Mid





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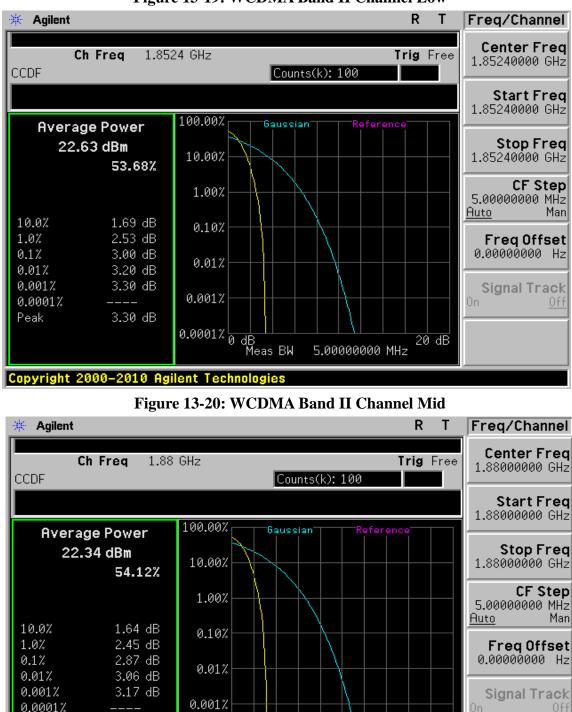


Figure 13-19: WCDMA Band II Channel Low

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3.18 dB

Peak

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0.0001%<u></u>

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dB Meas BW

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5.00000000 MHz

20 dB



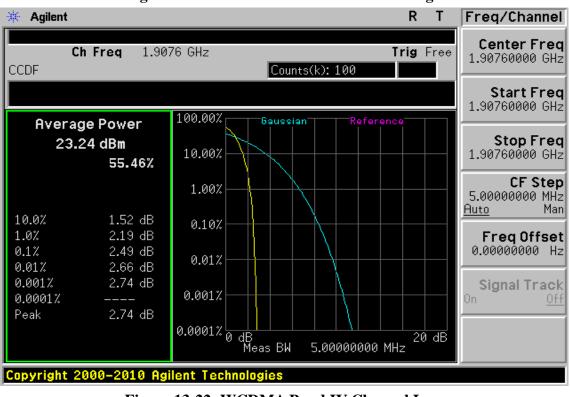
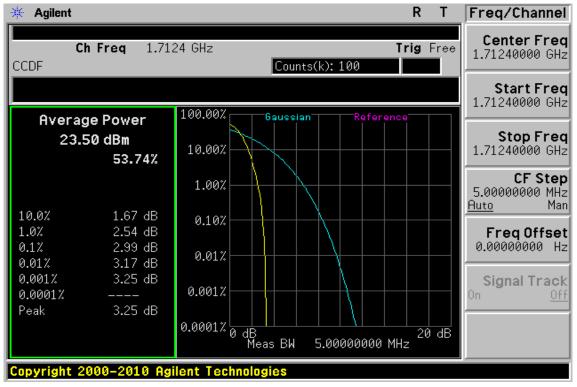


Figure 13-21: WCDMA Band II Channel High





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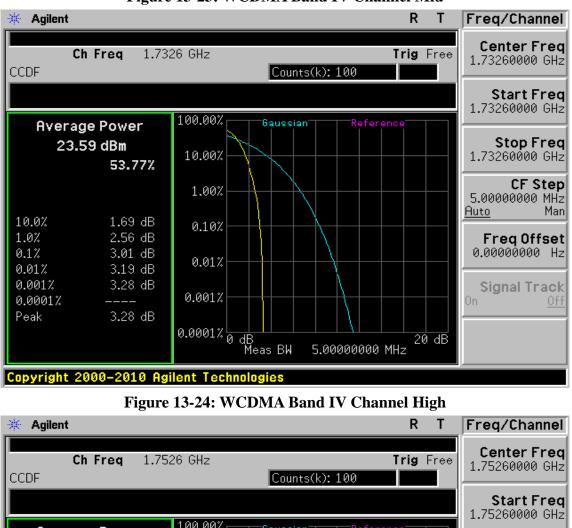


Figure 13-23: WCDMA Band IV Channel Mid



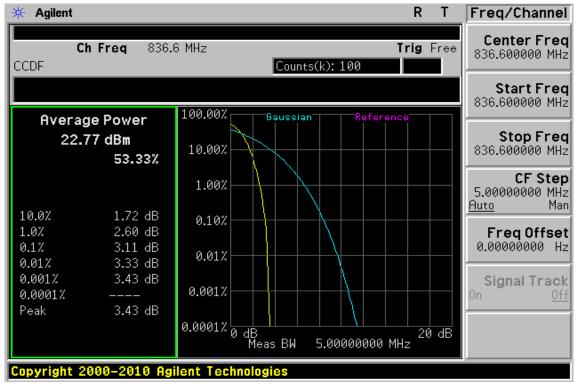
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Figure 13-25: WCDMA Band V Channel Low





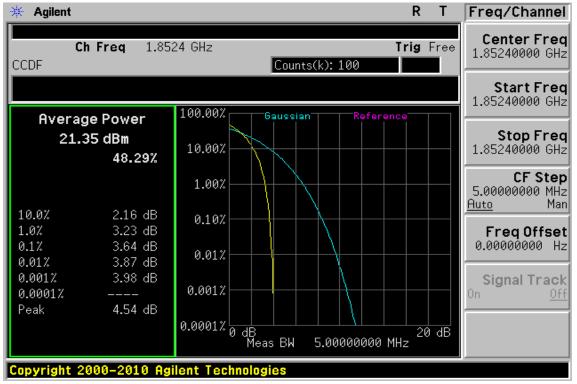
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.





Figure 13-27: WCDMA Band V Channel High





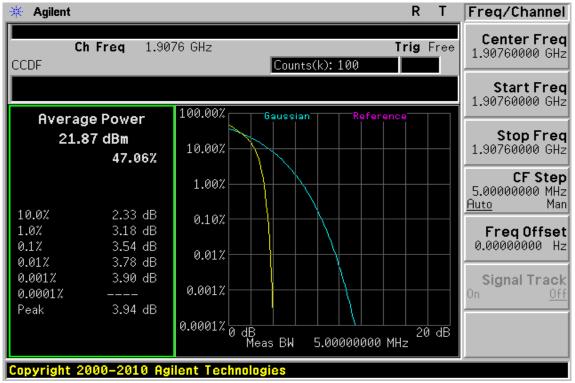
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Figure 13-29: HSDPA Band II Channel Mid





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Figure 13-31: HSDPA Band IV Channel Low





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Figure 13-33: HSDPA Band IV Channel High





Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.





Figure 13-35: HSDPA Band V Channel Mid





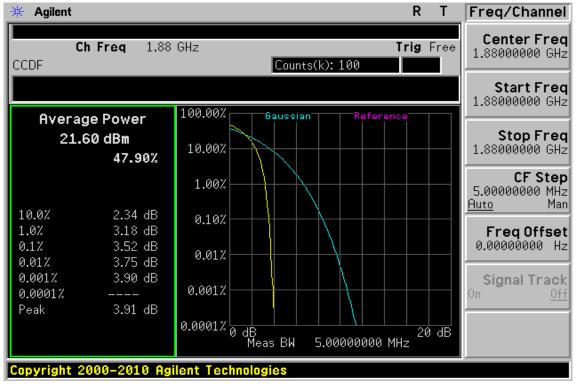
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Figure 13-37: HSUPA Band II Channel Low





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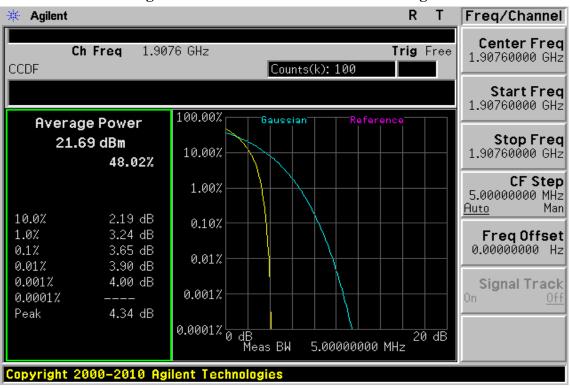
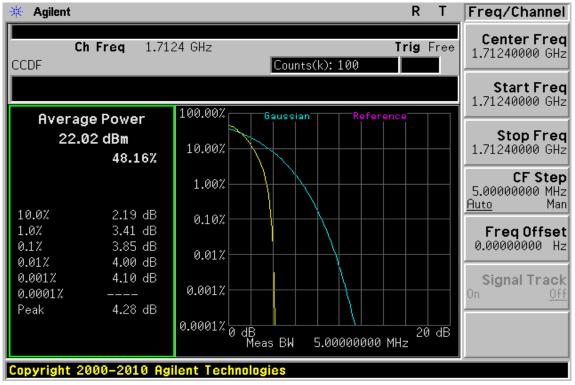


Figure 13-39: HSUPA Band II Channel High





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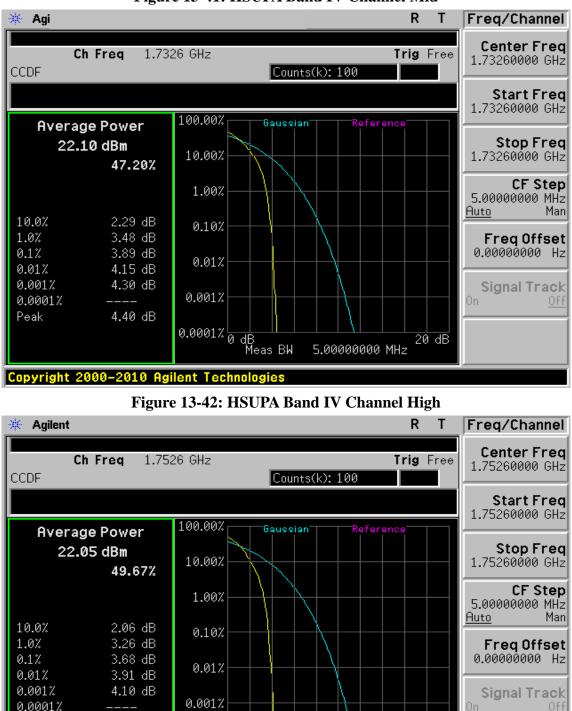


Figure 13-41: HSUPA Band IV Channel Mid

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4.21 dB

Peak

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0.0001%⊑ 0

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dB Meas BW

5.00000000 MHz

20 dB





Figure 13-43: HSUPA Band V Channel Low





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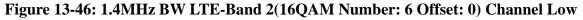




Figure 13-45: HSUPA Band V Channel High

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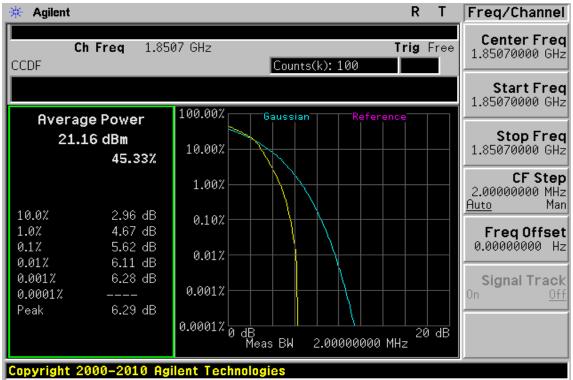
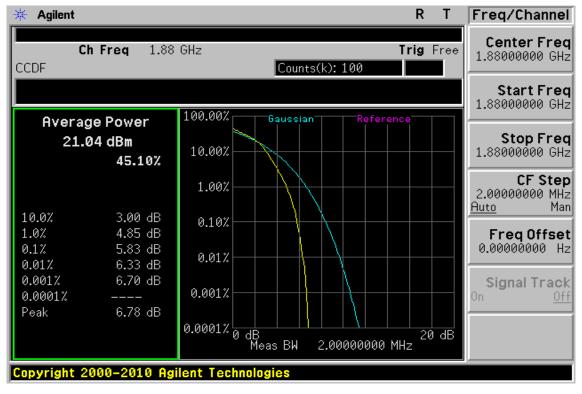
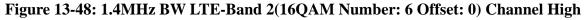


Figure 13-47: 1.4MHz BW LTE-Band 2(16QAM Number: 6 Offset: 0) Channel Mid



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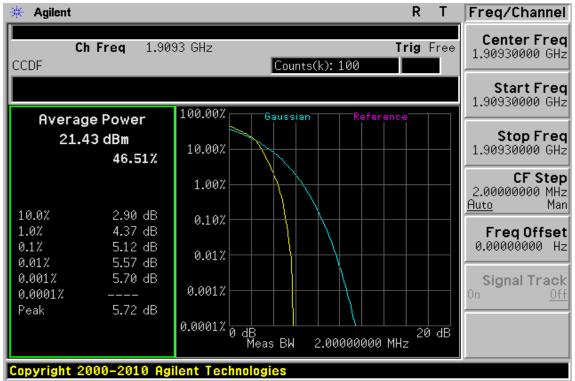
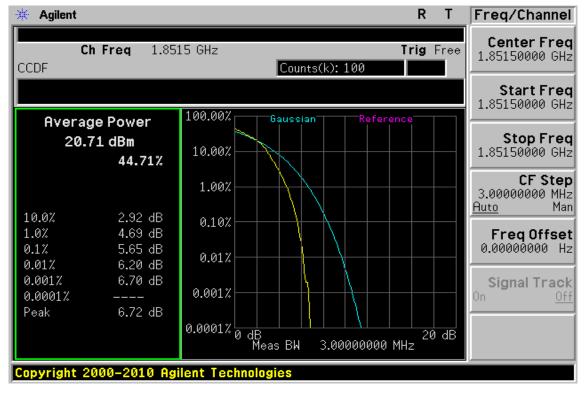
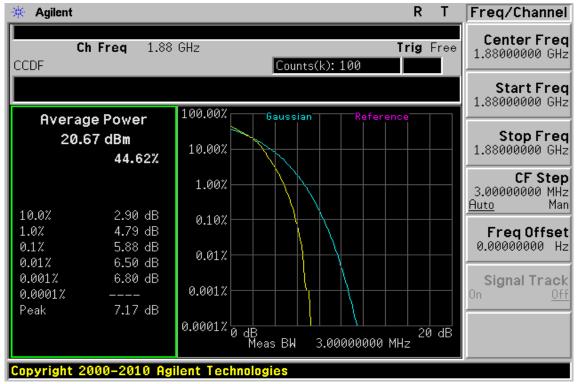


Figure 13-49: 3MHz BW LTE-Band 2(16QAM Number: 15 Offset: 0) Channel Low











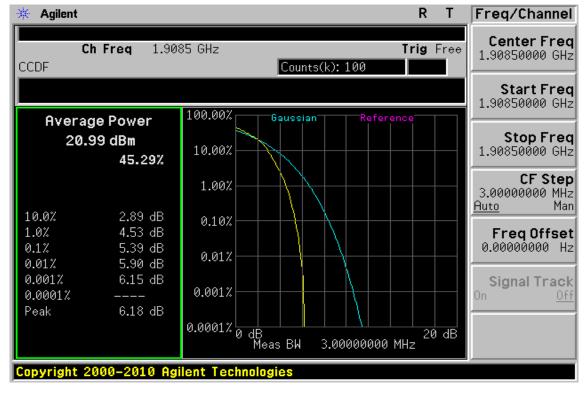








Figure 13-53: 5MHz BW LTE-Band 2(16OAM Number: 25 Offset: 0) Channel Mid

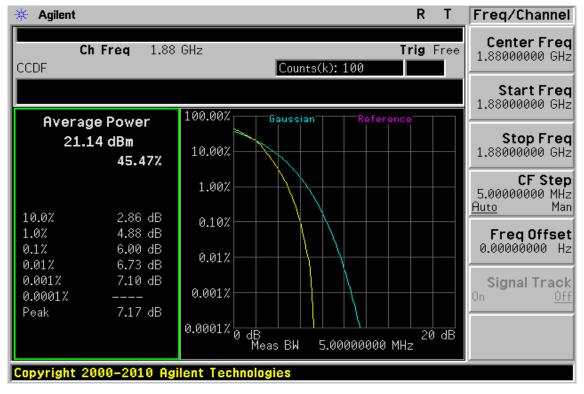
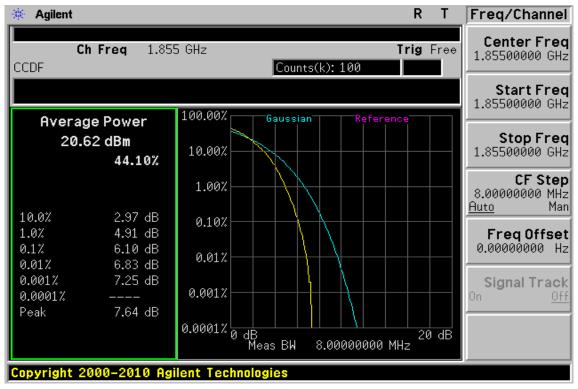








Figure 13-55: 10MHz BW LTE-Band 2(16QAM Number: 50 Offset: 0) Channel Low







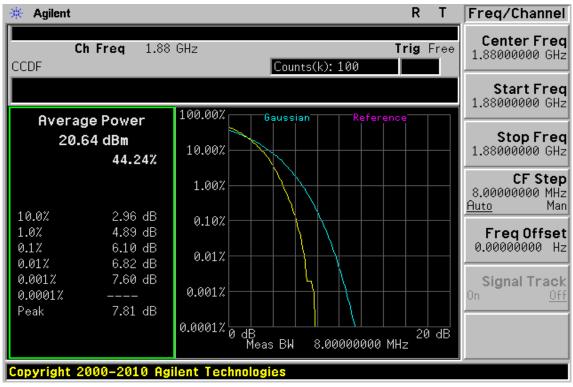
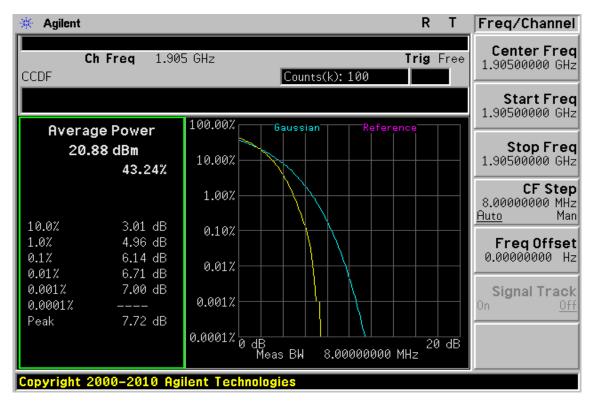


Figure 13-57: 10MHz BW LTE-Band 2(16QAM Number: 50 Offset: 0) Channel High



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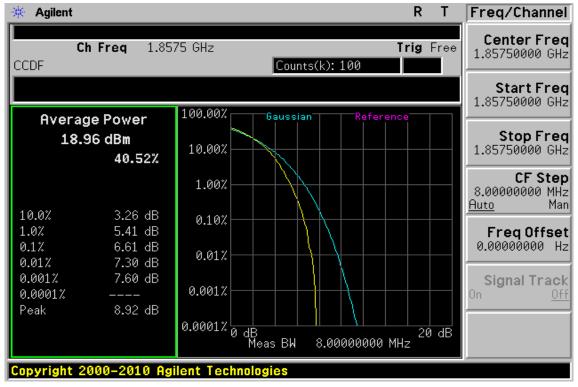


Figure 13-59: 15MHz BW LTE-Band 2(16QAM Number: 75 Offset: 0) Channel Mid

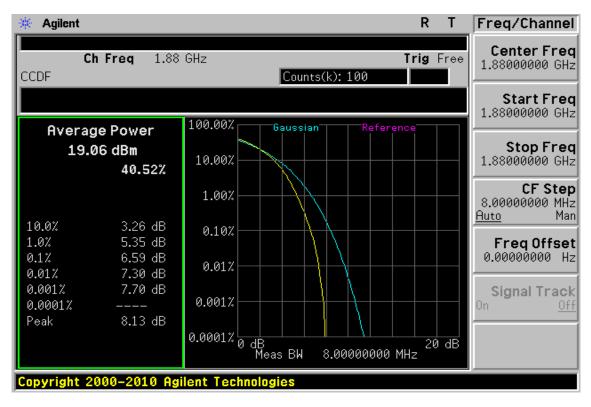
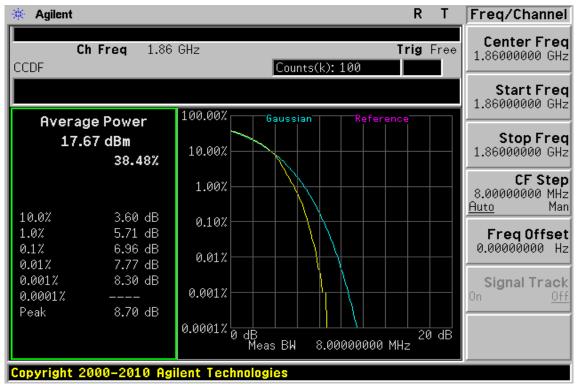








Figure 13-61: 20MHz BW LTE-Band 2(16QAM Number: 100 Offset: 0) Channel Low







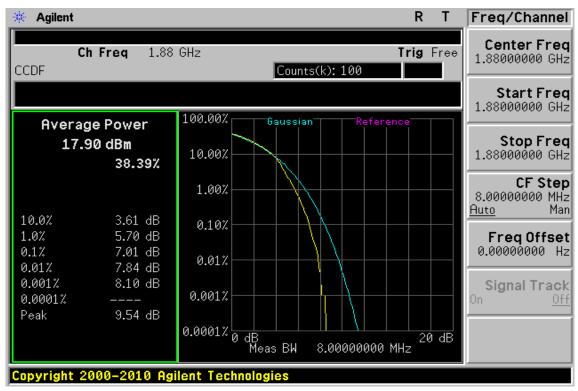
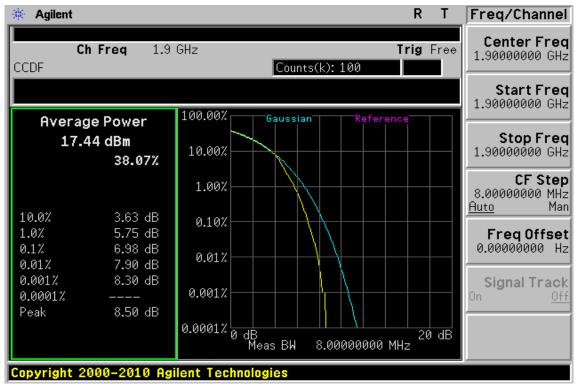
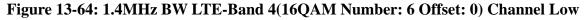


Figure 13-63: 20MHz BW LTE-Band 2(16QAM Number: 100 Offset: 0) Channel High







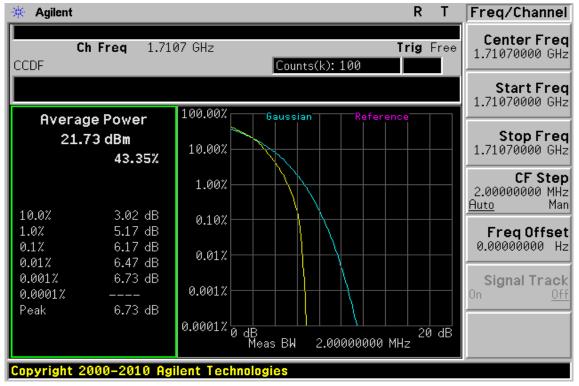


Figure 13-65: 1.4MHz BW LTE-Band 4(16QAM Number: 6 Offset: 0) Channel Mid

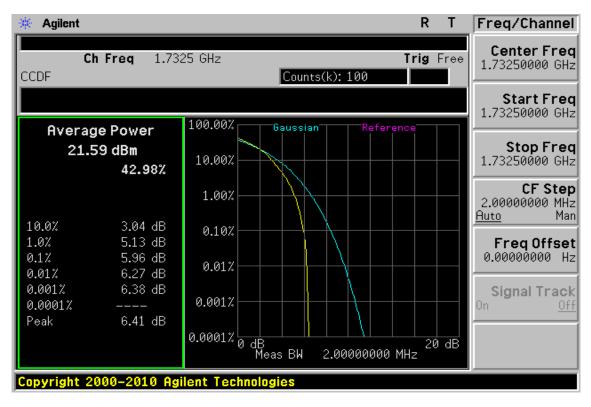
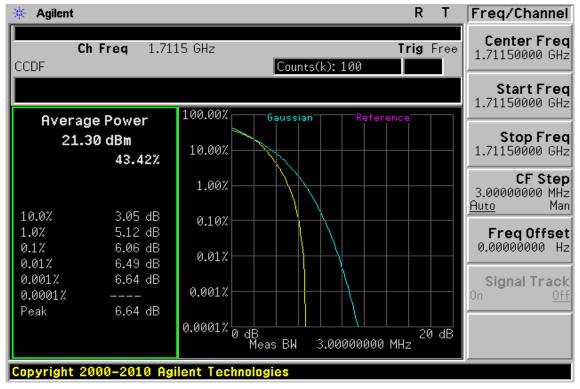








Figure 13-67: 3MHz BW LTE-Band 4(16QAM Number: 15 Offset: 0) Channel Low







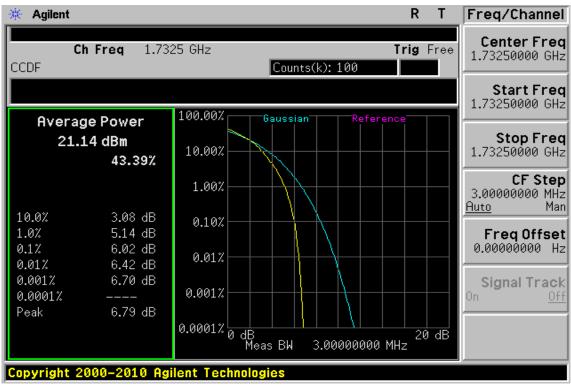
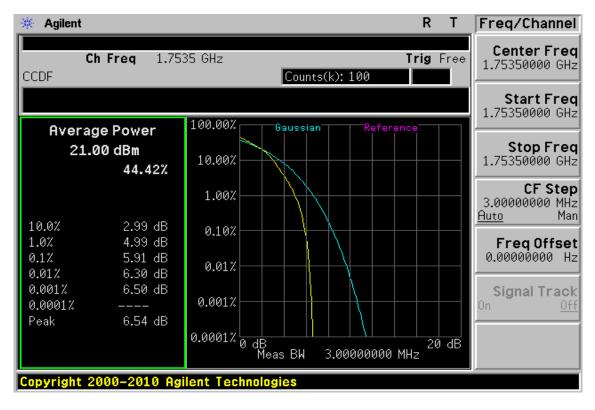


Figure 13-69: 3MHz BW LTE-Band 4(16QAM Number: 15 Offset: 0) Channel High



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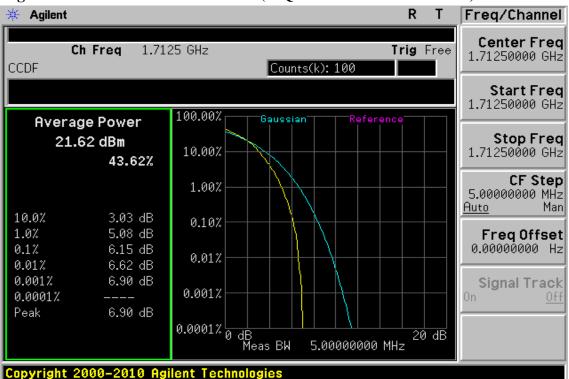


Figure 13-70: 5MHz BW LTE-Band 4(16QAM Number: 25 Offset: 0) Channel Low



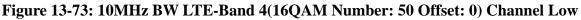


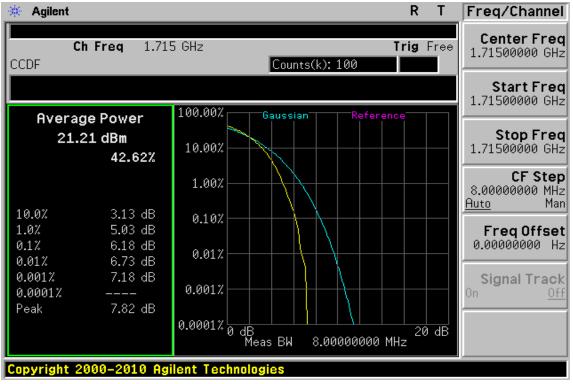
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Figure 13-72: 5MHz BW LTE-Band 4(16QAM Number: 25 Offset: 0) Channel High





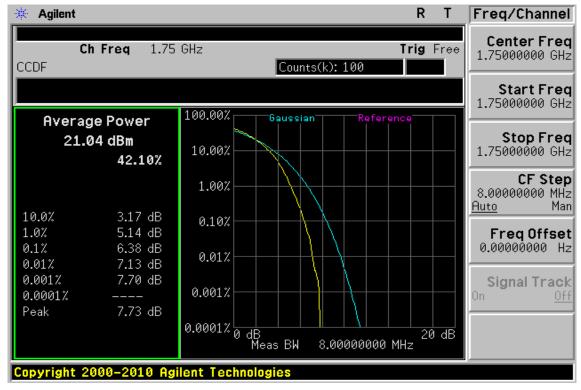
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Figure 13-75: 10MHz BW LTE-Band 4(16QAM Number: 50 Offset: 0) Channel High



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Figure 13-77: 15MHz BW LTE-Band 4(16QAM Number: 75 Offset: 0) Channel Mid



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Figure 13-79: 20MHz BW LTE-Band 4(16QAM Number: 100 Offset: 0) Channel Low

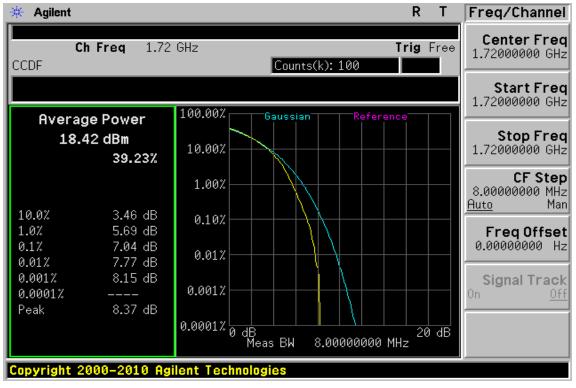








Figure 13-81: 20MHz BW LTE-Band 4(16QAM Number: 100 Offset: 0) Channel High





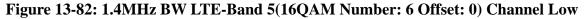
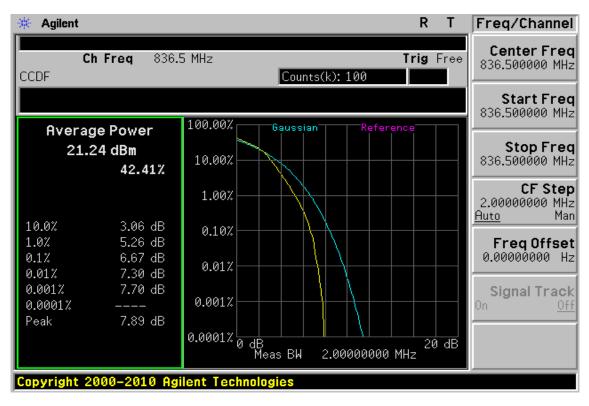
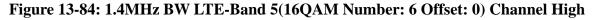




Figure 13-83: 1.4MHz BW LTE-Band 5(16QAM Number: 6 Offset: 0) Channel Mid







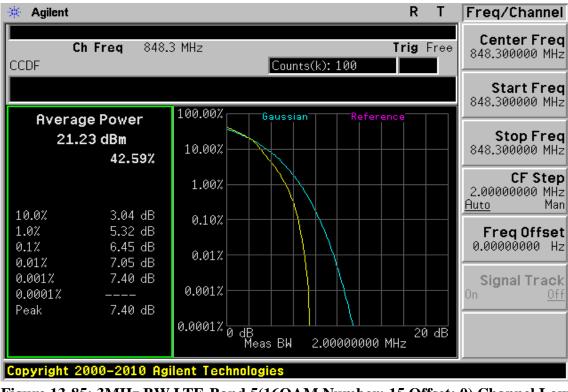
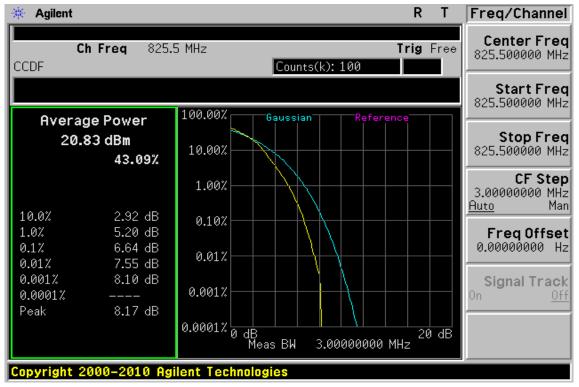


Figure 13-85: 3MHz BW LTE-Band 5(16QAM Number: 15 Offset: 0) Channel Low







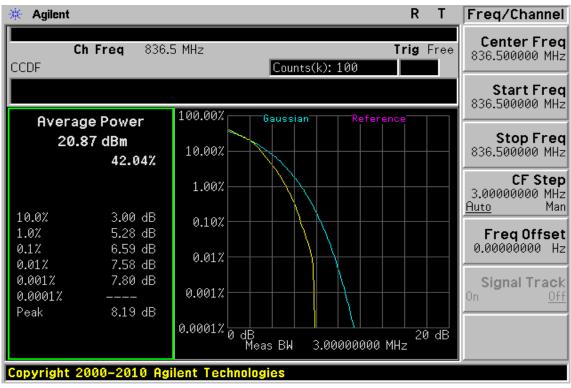


Figure 13-87: 3MHz BW LTE-Band 5(16QAM Number: 15 Offset: 0) Channel High



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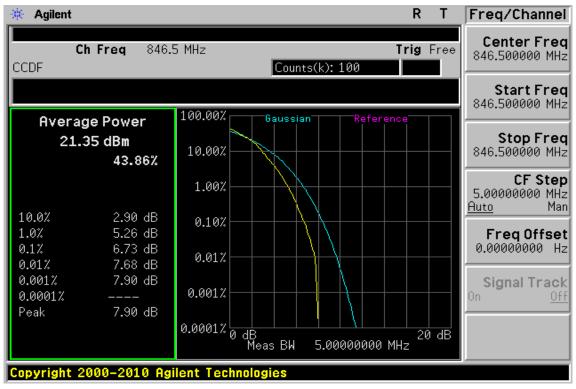
Figure 13-89: 5MHz BW LTE-Band 5(16QAM Number: 25 Offset: 0) Channel Mid Freg/Channel 🔆 Agilent R т



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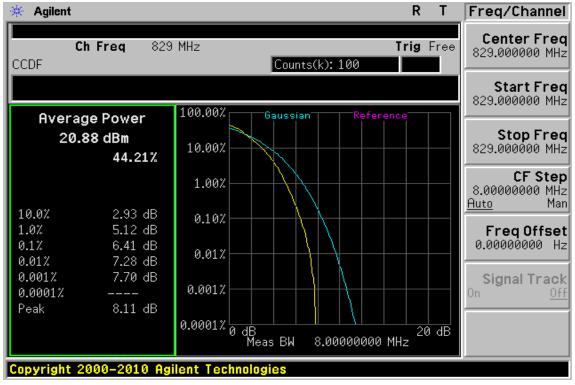
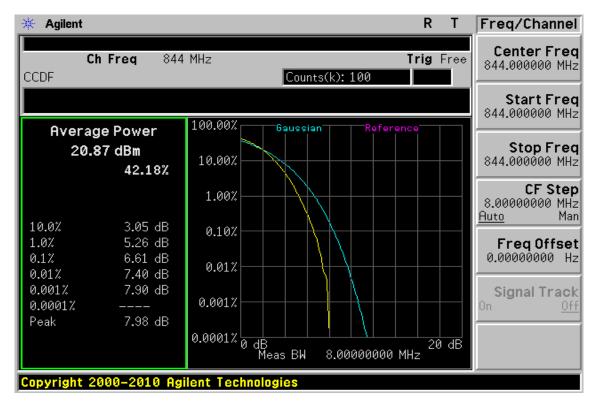








Figure 13-93: 10MHz BW LTE-Band 5(16QAM Number: 50 Offset: 0) Channel High



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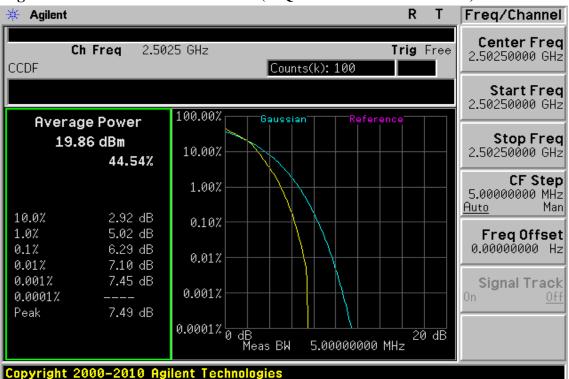


Figure 13-94: 5MHz BW LTE-Band 7(16QAM Number: 25 Offset: 0) Channel Low





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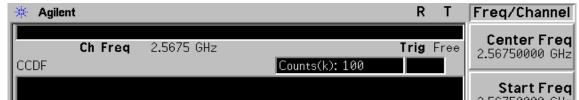


Figure 13-96: 5MHz BW LTE-Band 7(16QAM Number: 25 Offset: 0) Channel High

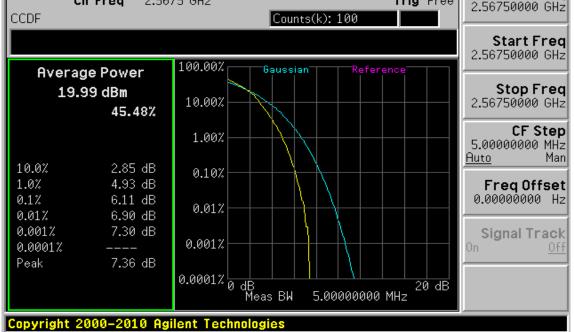
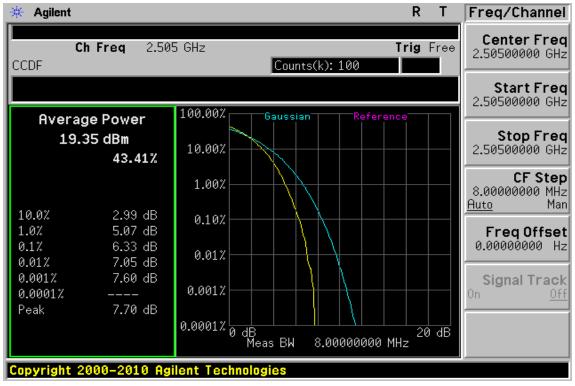


Figure 13-97: 10MHz BW LTE-Band 7(16QAM Number: 50 Offset: 0) Channel Low



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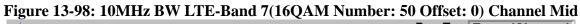
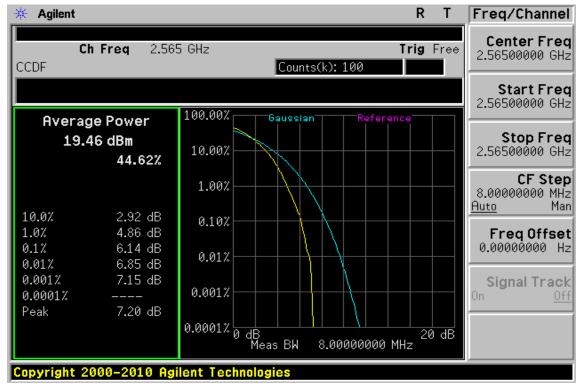




Figure 13-99: 10MHz BW LTE-Band 7(16QAM Number: 50 Offset: 0) Channel High



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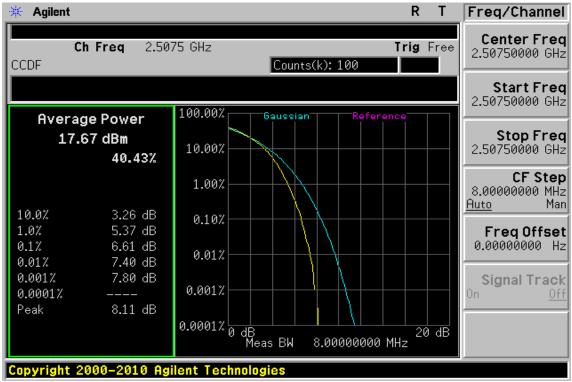
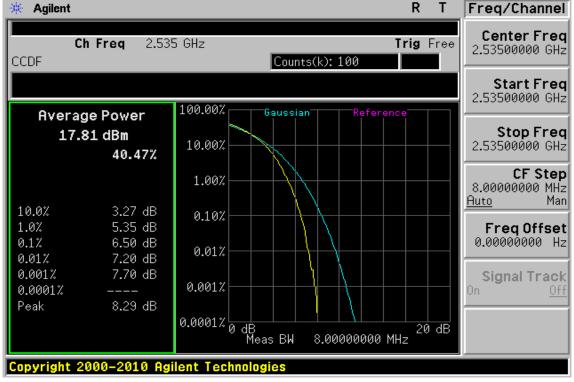
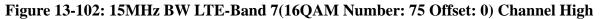


Figure 13-101: 15MHz BW LTE-Band 7(16QAM Number: 75 Offset: 0) Channel Mid



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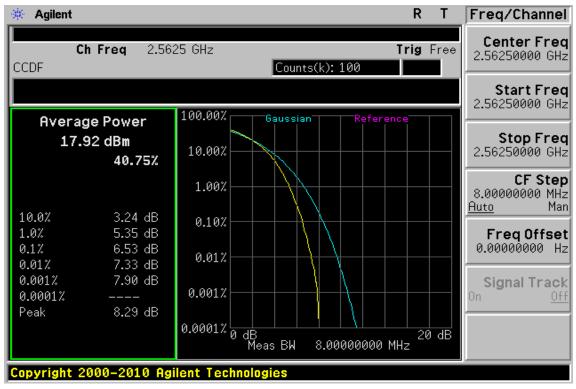
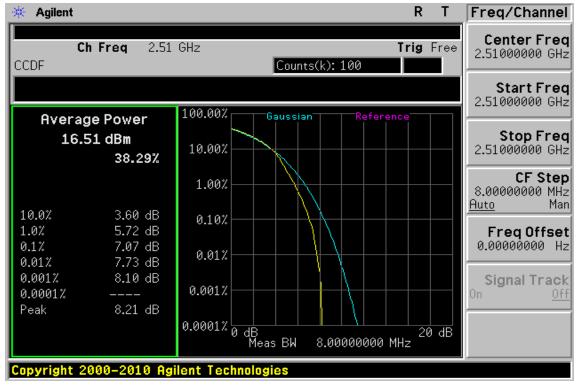


Figure 13-103: 20MHz BW LTE-Band 7(16QAM Number: 100 Offset: 0) Channel Low



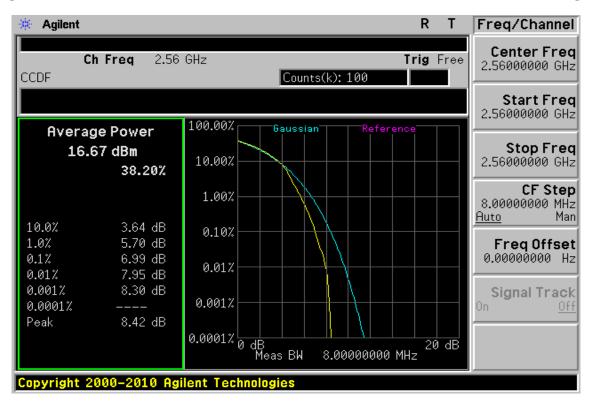
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Figure 13-104: 20MHz BW LTE-Band 7(16QAM Number: 100 Offset: 0) Channel Mid



Figure 13-105: 20MHz BW LTE-Band 7(16QAM Number: 100 Offset: 0) Channel High



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Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 720 of 774

APPENDIX 1

MEASUREMENT PLOT OF RADIATED SPURIOUS EMISSION

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Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 721 of 774

Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Band	:GSM 85
ARFCN	:CH 128
Fundamental Frequency	:824.2 M
Operation Mode	:TX LOV
EUT Pol.	:H Plane

M 850 128 .2 MHz LOW

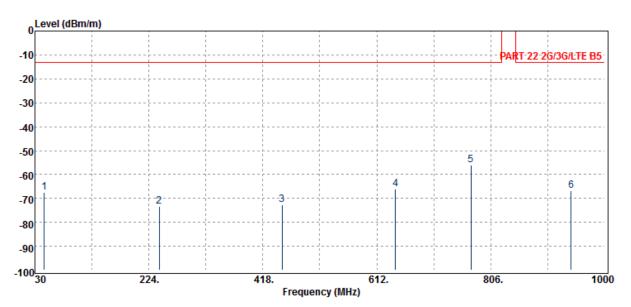
Test Date Temp./Humi. Engineer

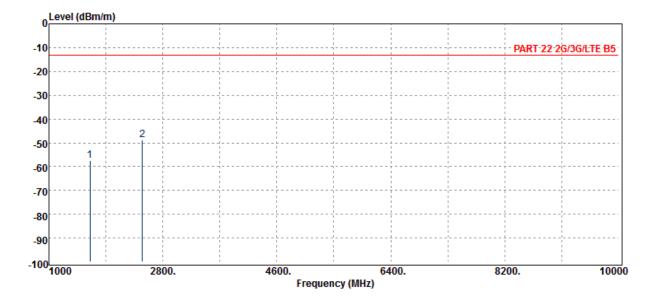
:23 deg_C / 56 RH :Curry

Measurement Antenna Pol.



:2014-11-29





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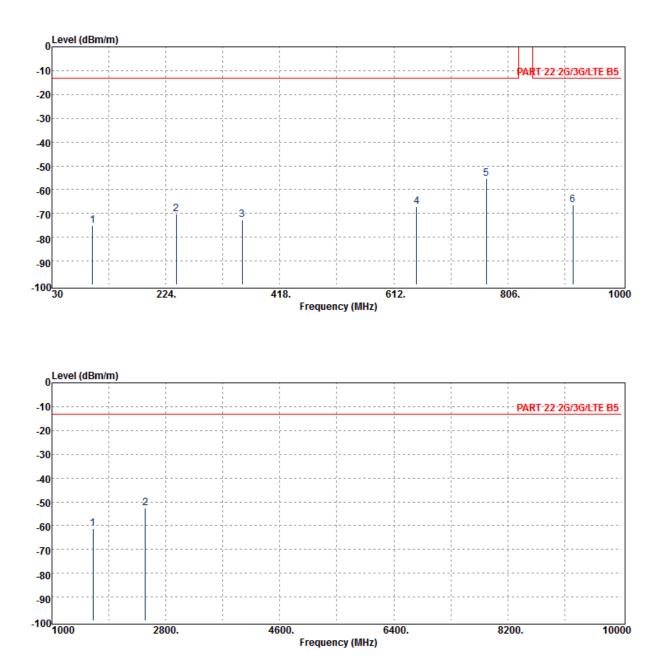
Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 722 of 774

Operation Band	:GSM 850
ARFCN	:CH 128
Fundamental Frequency	:824.2 MHz
Operation Mode	:TX LOW
EUT Pol.	:H Plane

Test Date Temp./Humi. Engineer

:2014-11-29 :23 deg_C / 56 RH :Curry

Measurement Antenna Pol. :HORIZONTAL

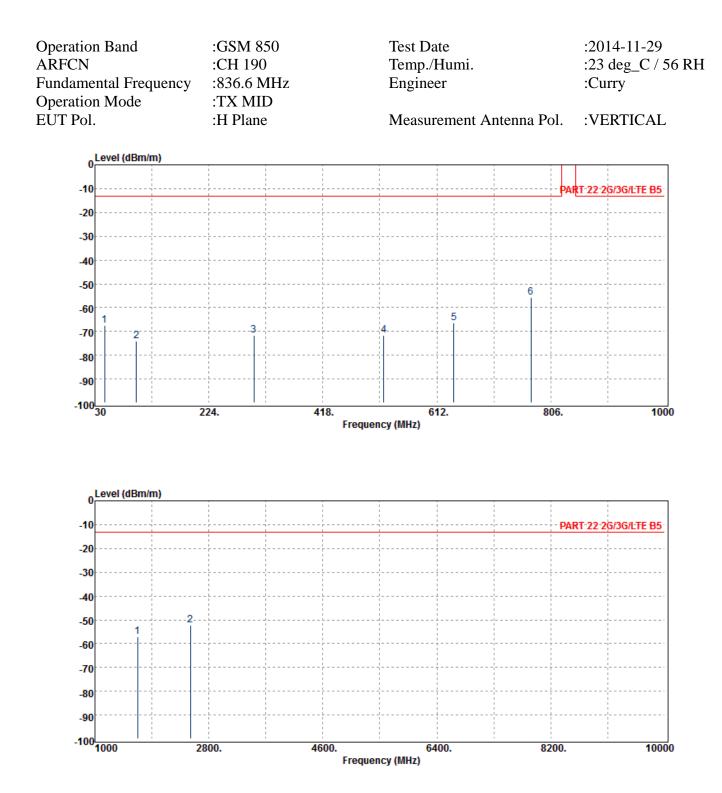


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Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 723 of 774

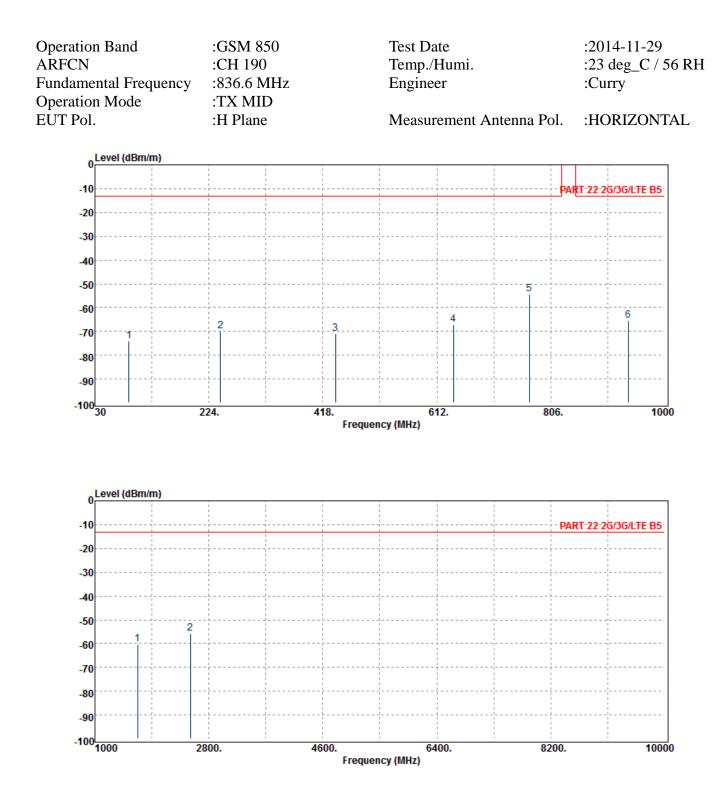


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Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 724 of 774

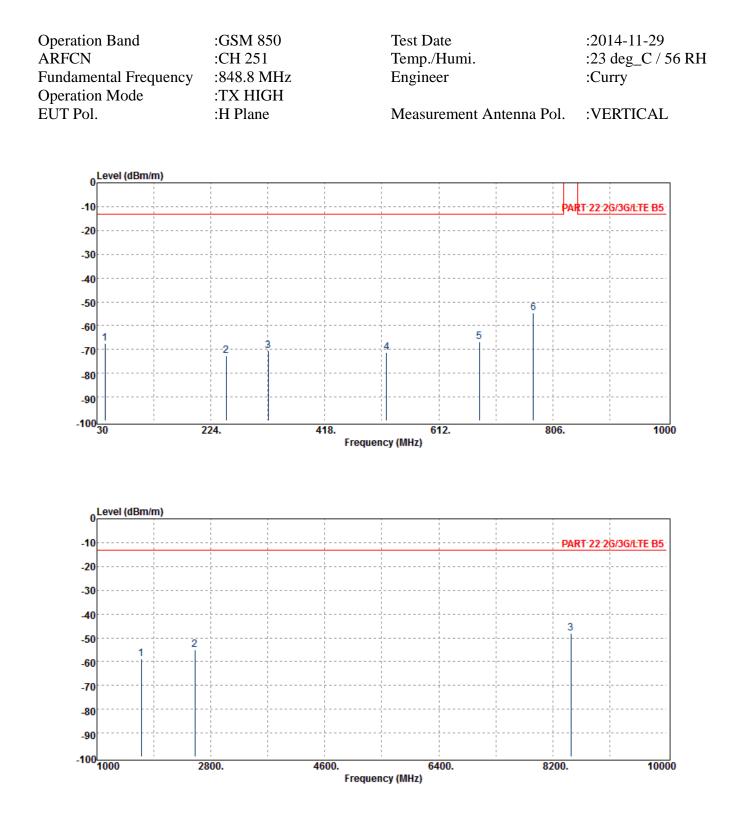


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Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 725 of 774

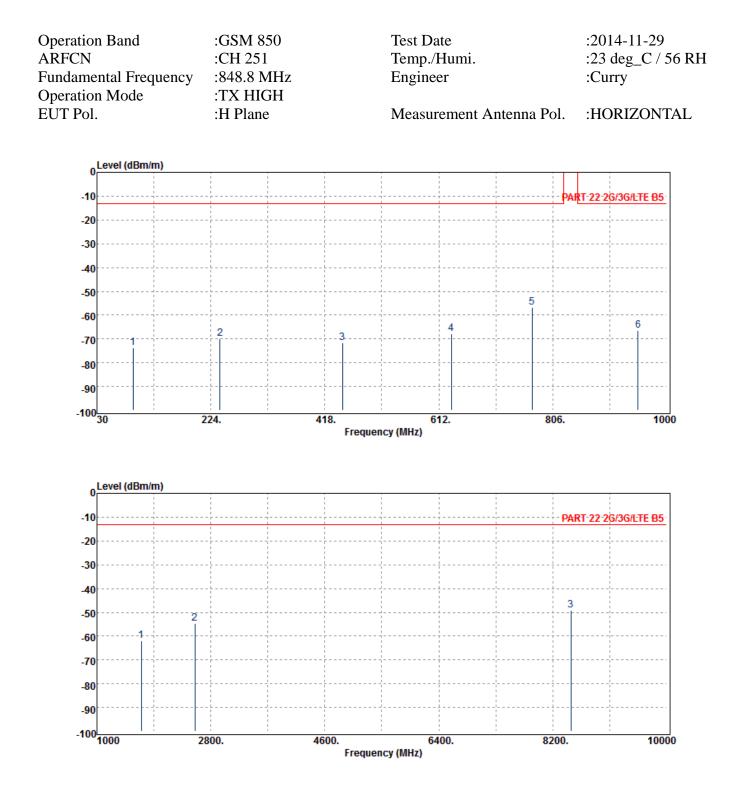


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Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 726 of 774



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Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 727 of 774

Radiated Spurious Emission Measurement Result: GSM 1900 Mode

Operation Band ARFCN **Fundamental Frequency Operation Mode** EUT Pol.

:GSM 1900 :CH 512 :1850.2 MHz :TX LOW :H Plane

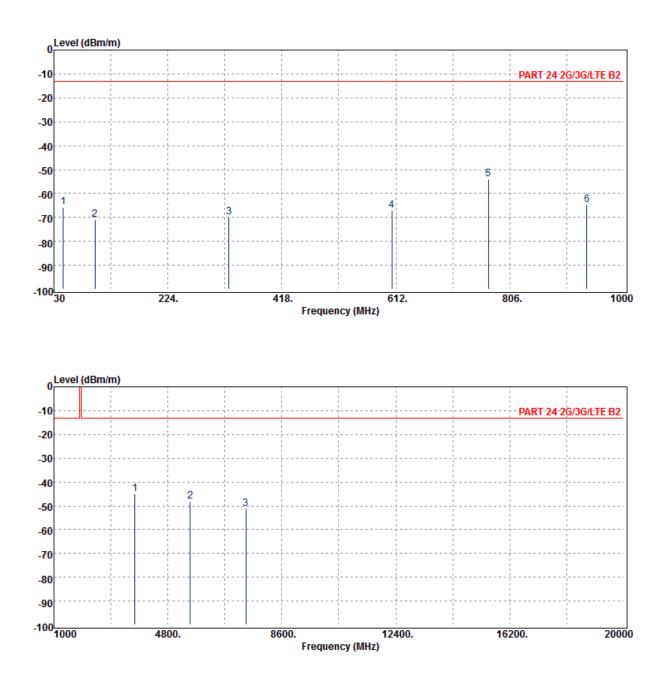
Test Date Temp./Humi. Engineer

:VERTICAL Measurement Antenna Pol.

:Tin

:2014-11-20

:23 deg_C / 58 RH



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Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 728 of 774

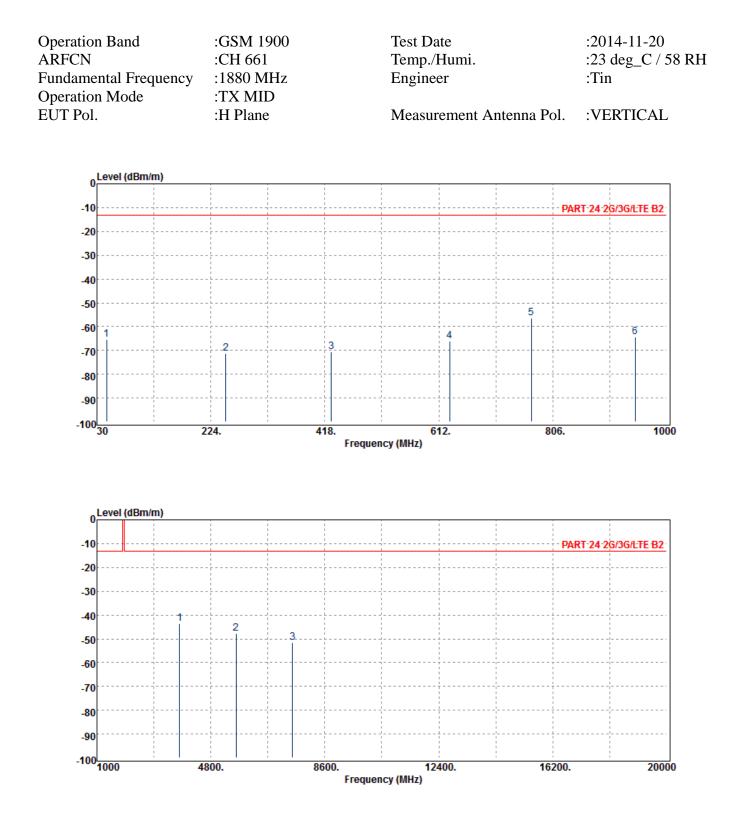


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Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 729 of 774

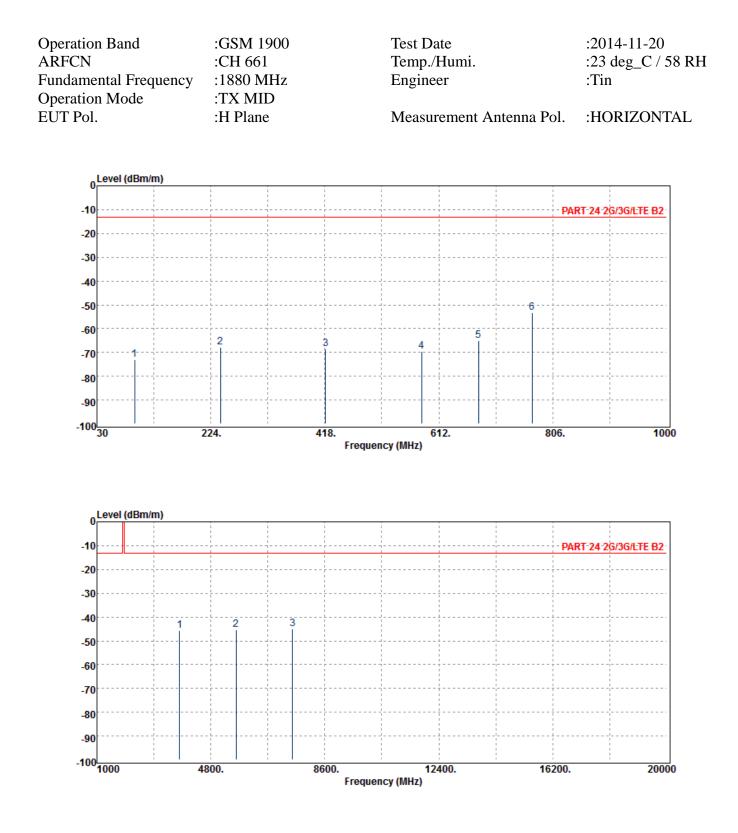


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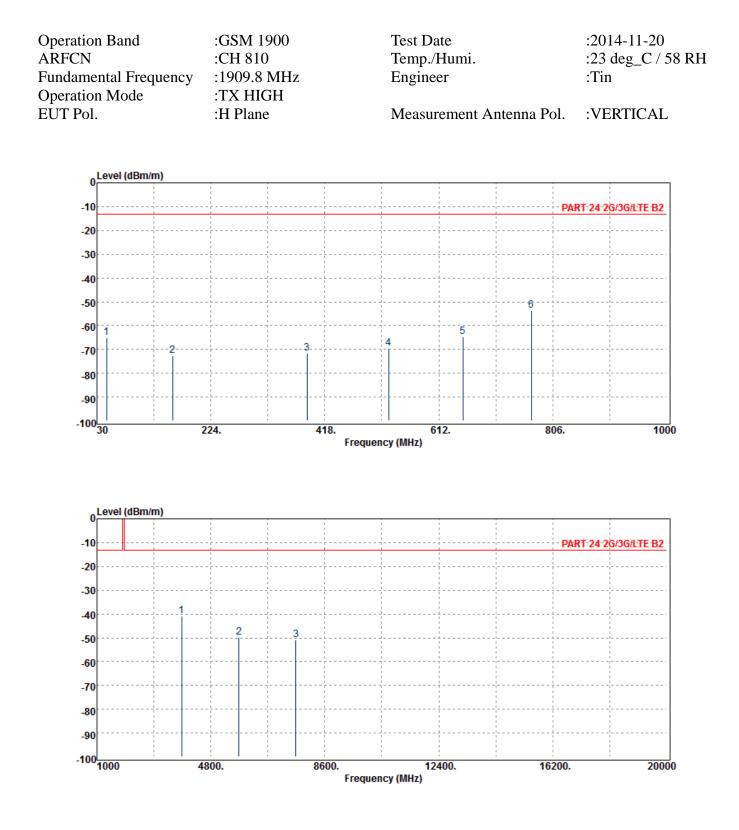
Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 730 of 774



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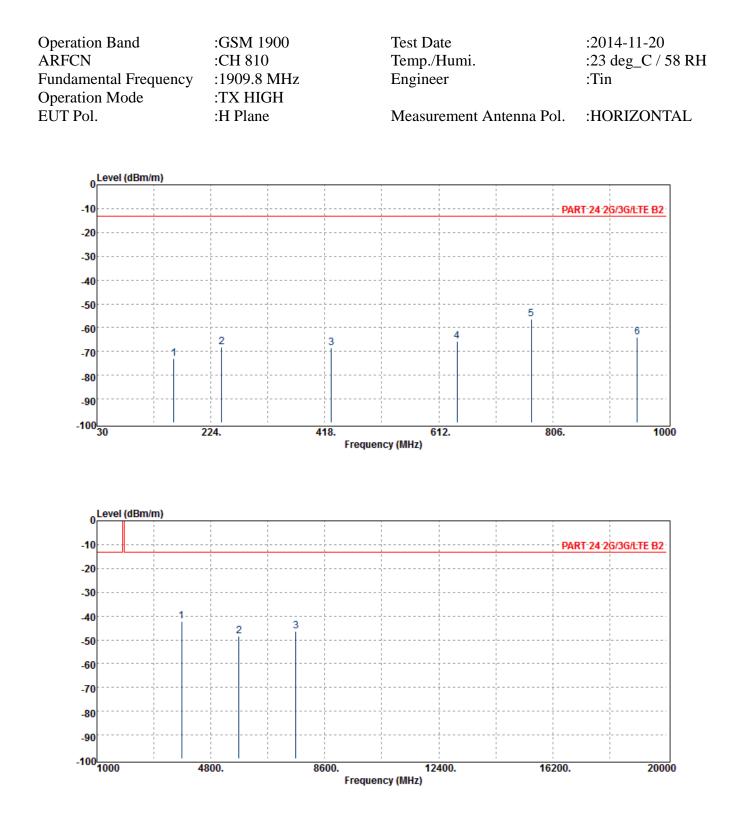
Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 731 of 774



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Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 732 of 774



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Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 733 of 774

Radiated Spurious Emission Measurement Result: WCDMA II Mode

Operation Band ARFCN **Fundamental Frequency Operation Mode** EUT Pol.

:WCDMA B2 :CH 9262 :1852.4 MHz :TX LOW :H Plane

Test Date Temp./Humi. Engineer

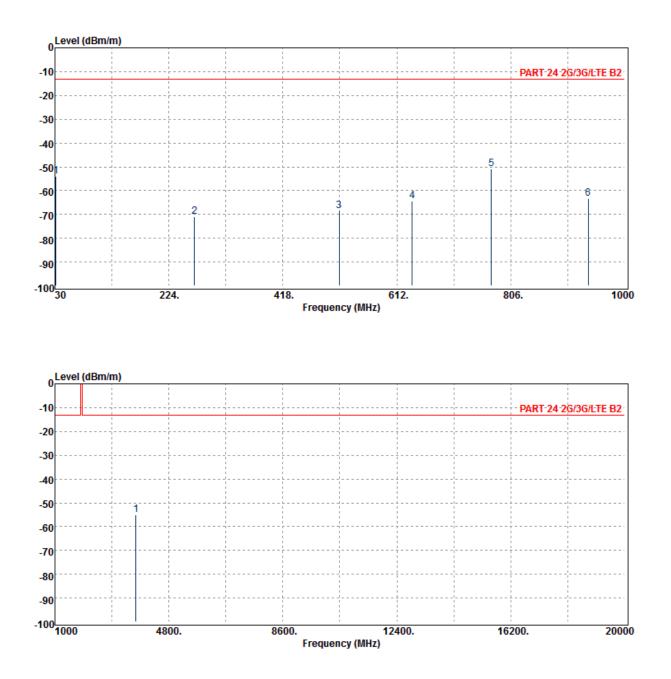
:Tin

:23 deg_C / 58 RH

:2014-11-20

Measurement Antenna Pol.

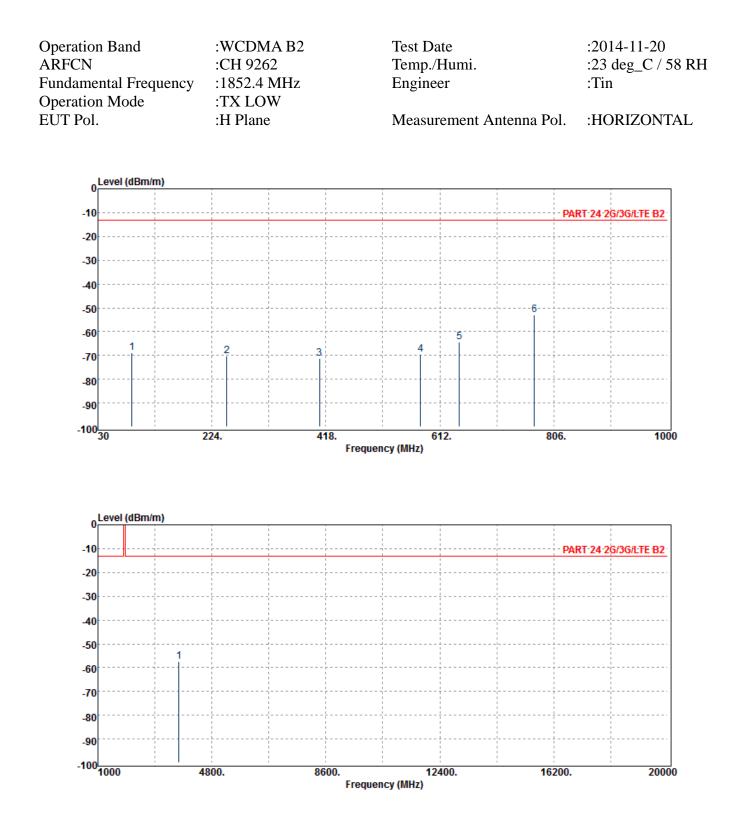
:VERTICAL



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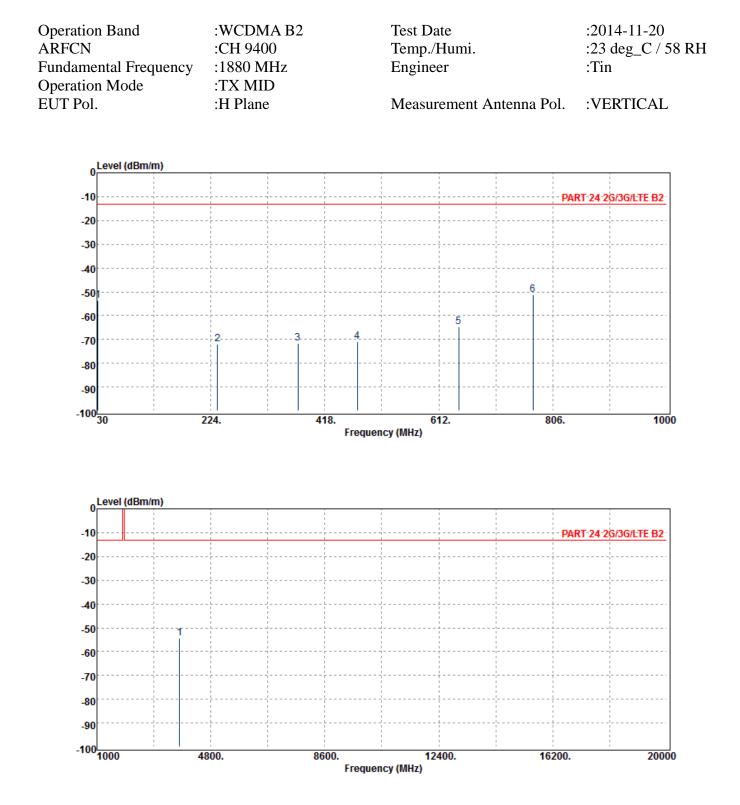
Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 734 of 774



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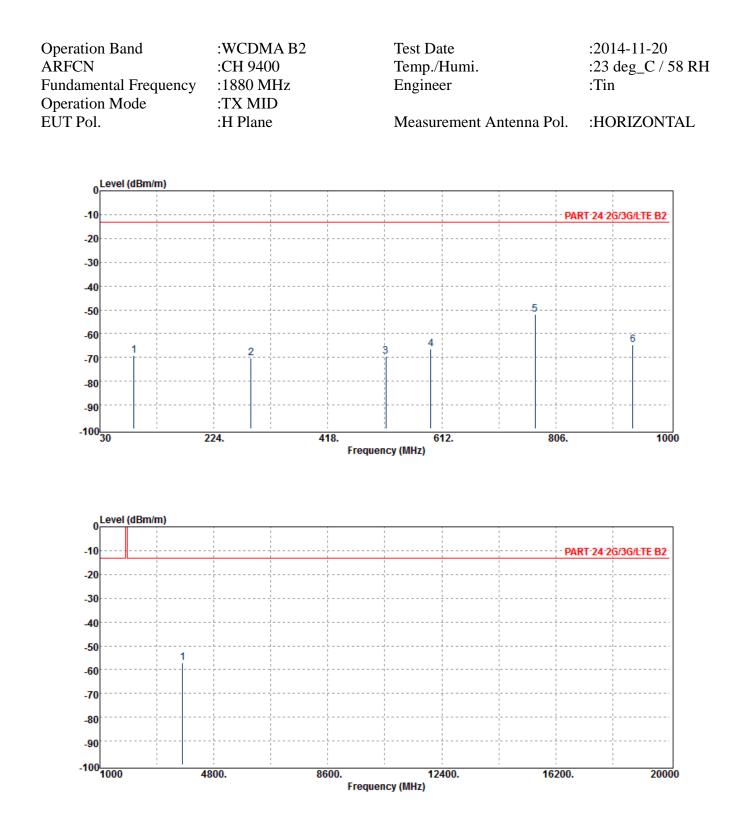
Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 735 of 774



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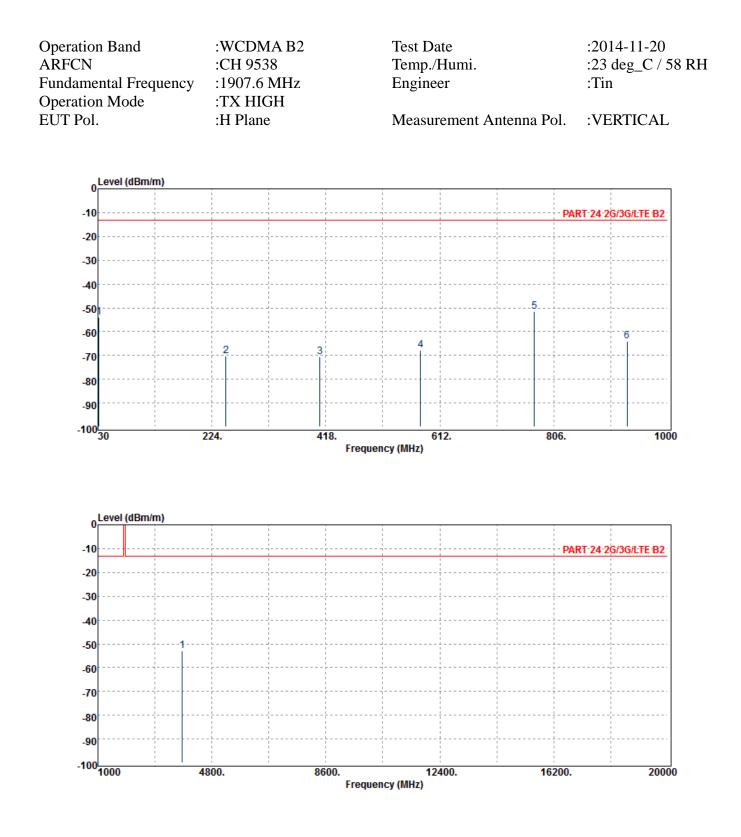
Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 736 of 774



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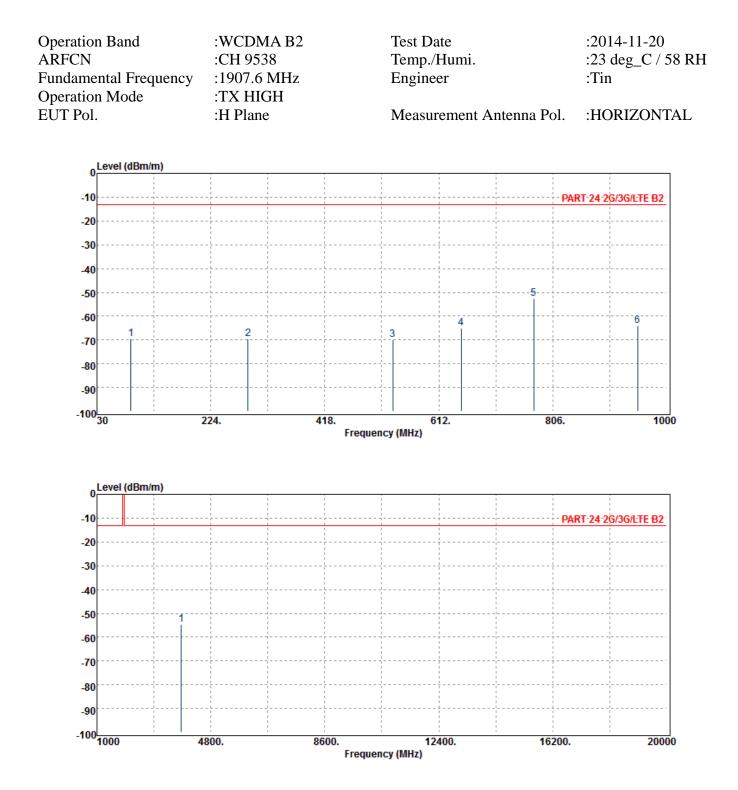
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Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 739 of 774

Radiated Spurious Emission Measurement Result: WCDMA IV Mode

Operation Band ARFCN **Fundamental Frequency Operation Mode** EUT Pol.

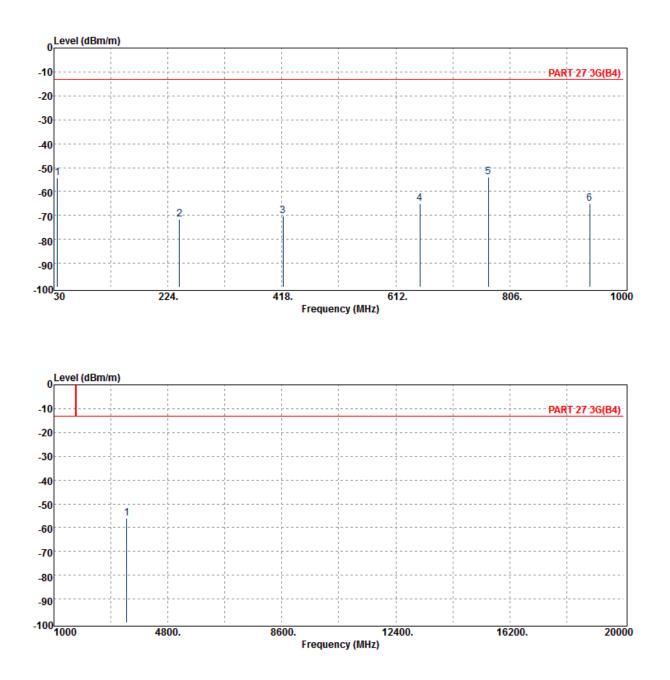
:WCDMA B4 :CH 1312 :1712.4 MHz :TX LOW :H Plane

Test Date Temp./Humi. Engineer

:2014-11-19 :19.6 deg_C / 65 RH :Tin

Measurement Antenna Pol.

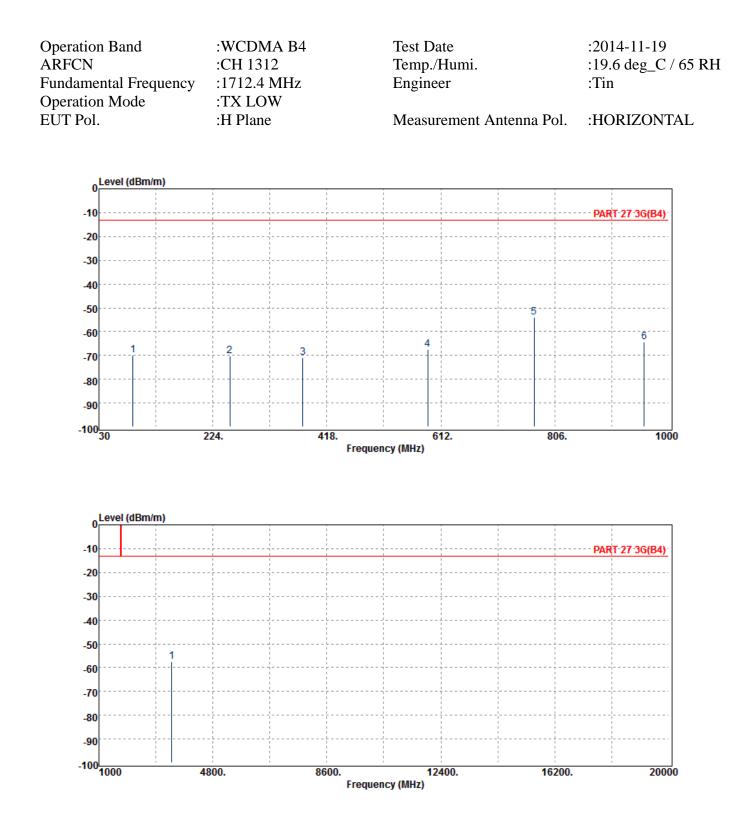
:VERTICAL



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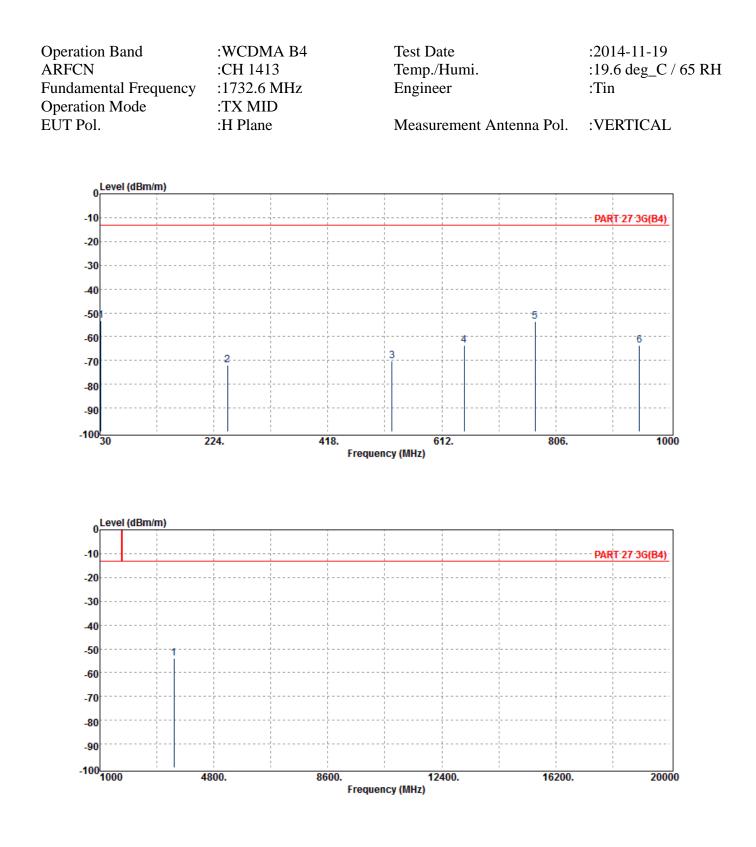
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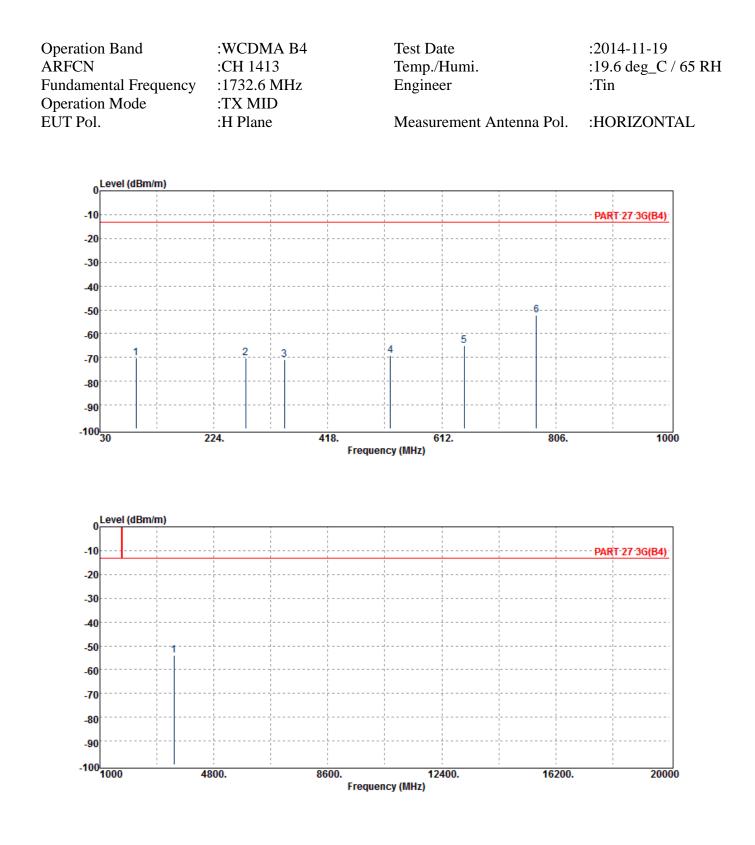
Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 741 of 774



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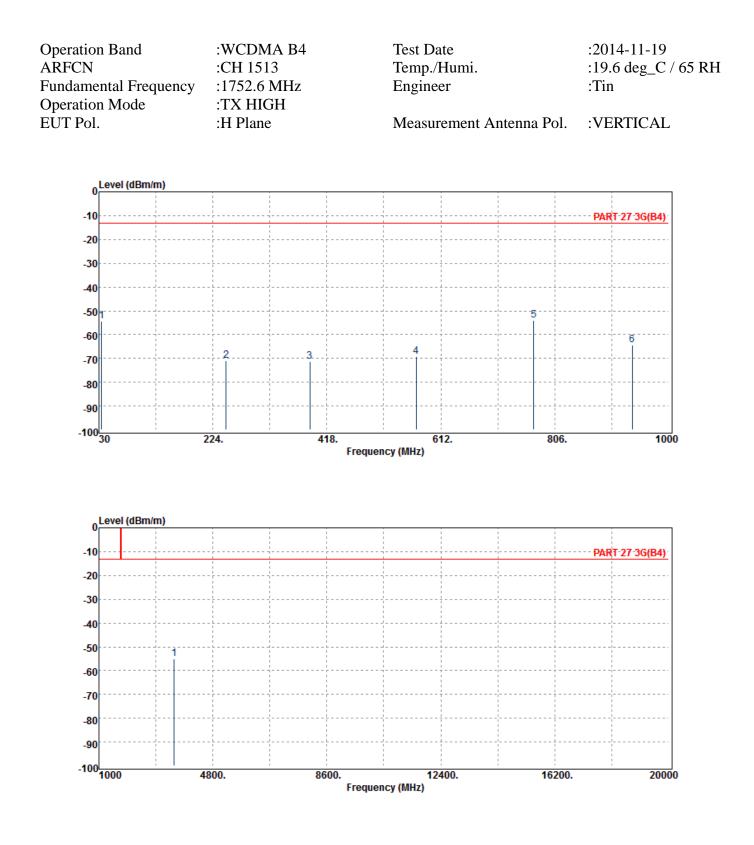
Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 742 of 774



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Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 743 of 774

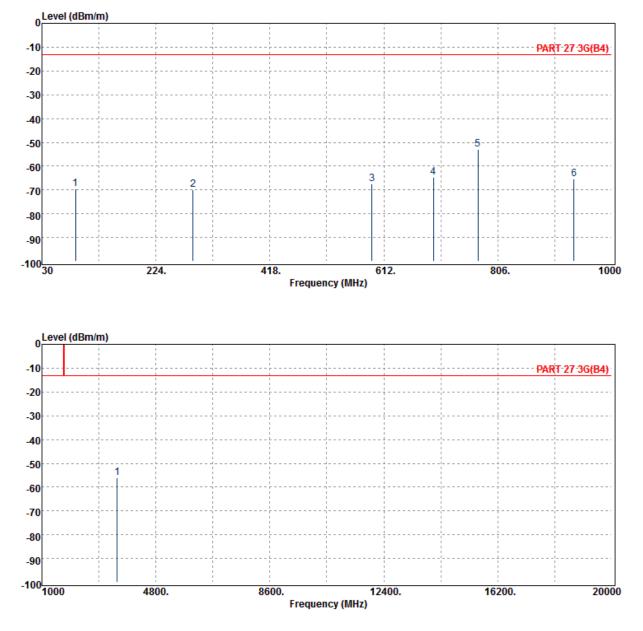


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Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 744 of 774

Operation Band ARFCN Fundamental Frequency Operation Mode	:WCDMA B4 :CH 1513 :1752.6 MHz :TX HIGH	Test Date Temp./Humi. Engineer	:2014-11-19 :19.6 deg_C / 65 RH :Tin
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 745 of 774

Radiated Spurious Emission Measurement Result: WCDMA V Mode

Operation Band ARFCN **Fundamental Frequency Operation Mode** EUT Pol.

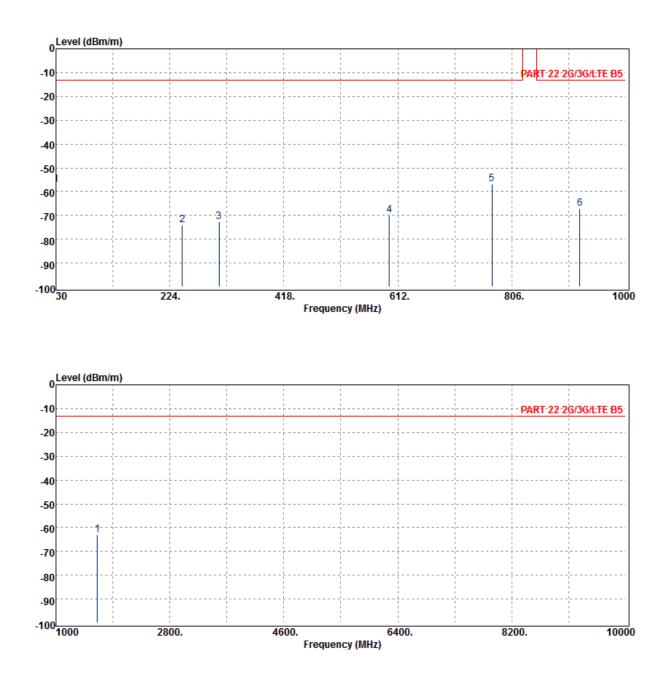
:WCDMA B5 :CH 4132 :826.4 MHz :TX LOW :H Plane

Test Date Temp./Humi. Engineer

:2014-11-29 :23 deg_C / 56 RH :Curry

Measurement Antenna Pol.

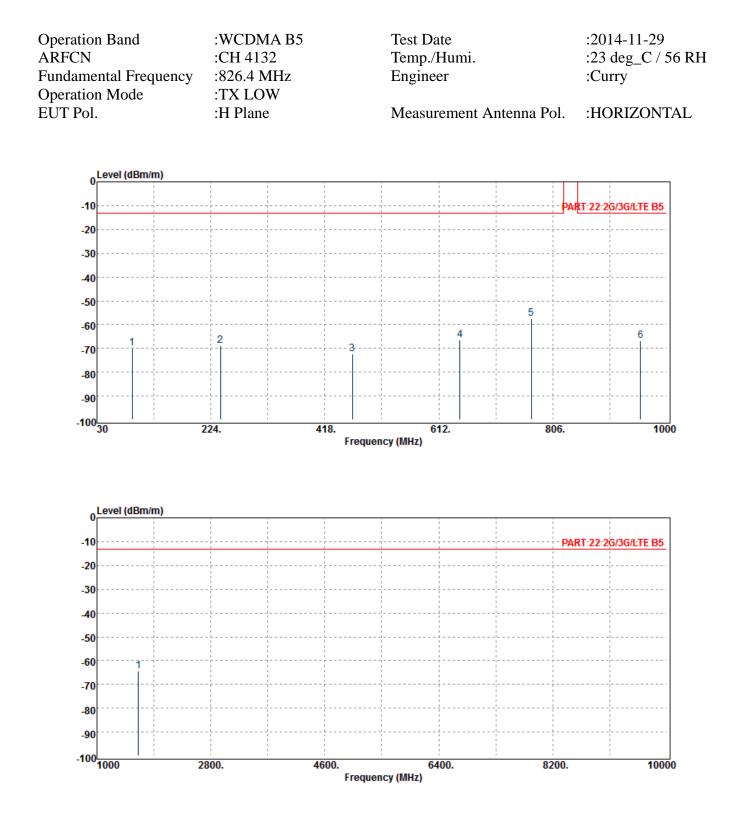
:VERTICAL



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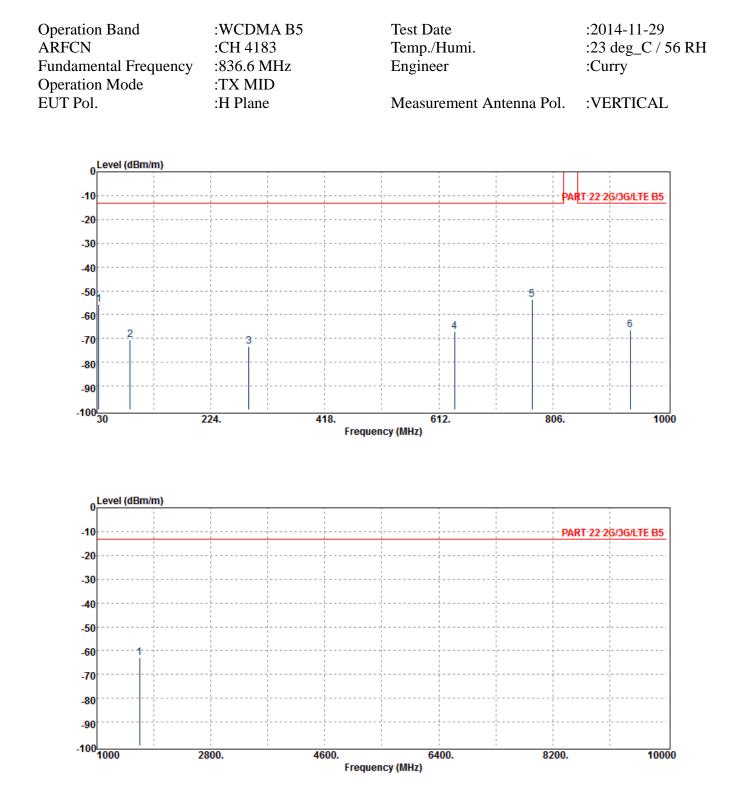
Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 746 of 774



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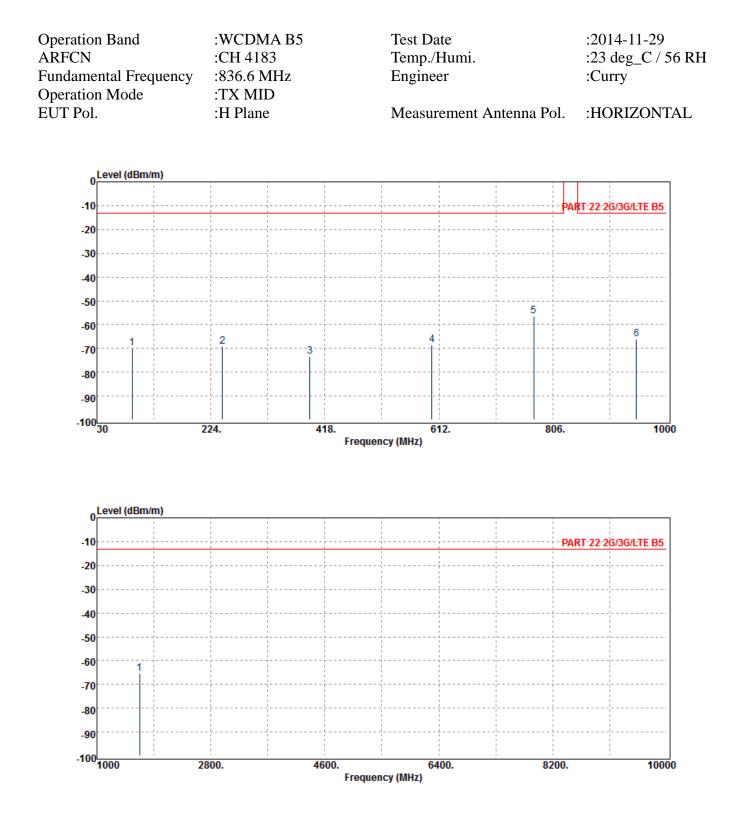
Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 747 of 774



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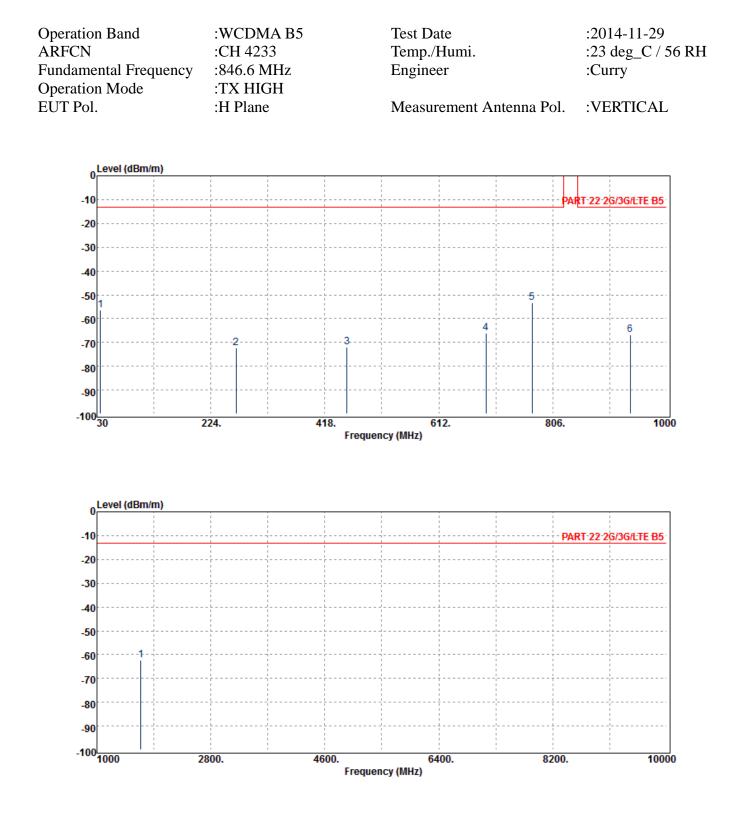
Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 748 of 774



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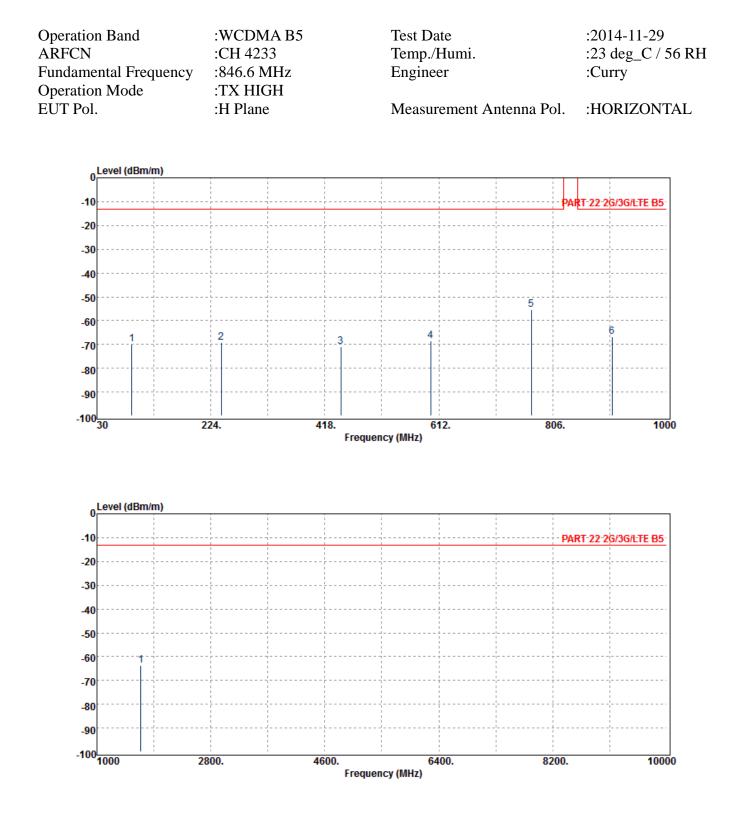
Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 749 of 774



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Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 750 of 774

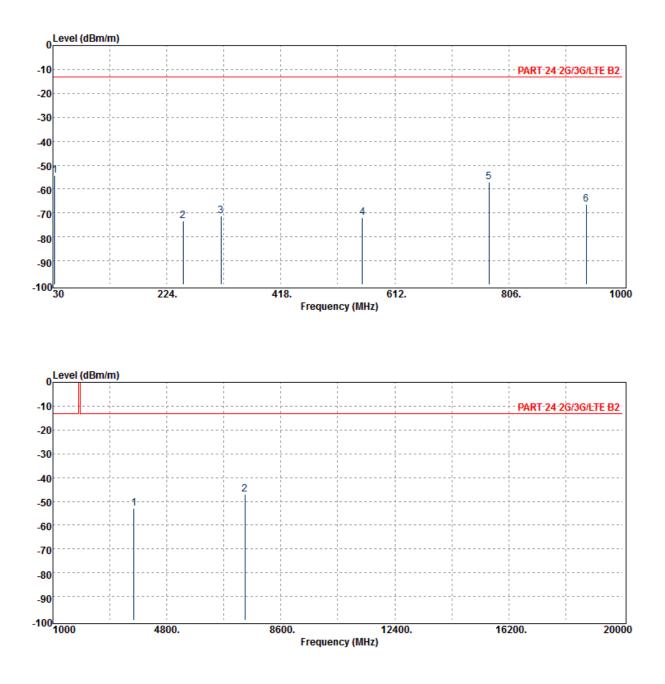


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Radiated Spurious Emission Measurement Result: 20MHz BW LTE-Band 2(The Worst Case)

Operation Band	:LTE B2	Test Date	:2014-11-20
ARFCN	:CH 18607 16QAM BW 1.4 RB 1 5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1850.7 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

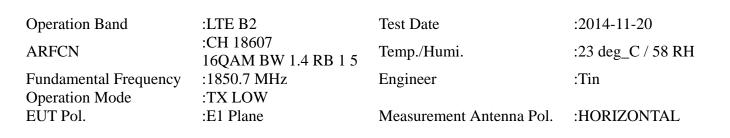


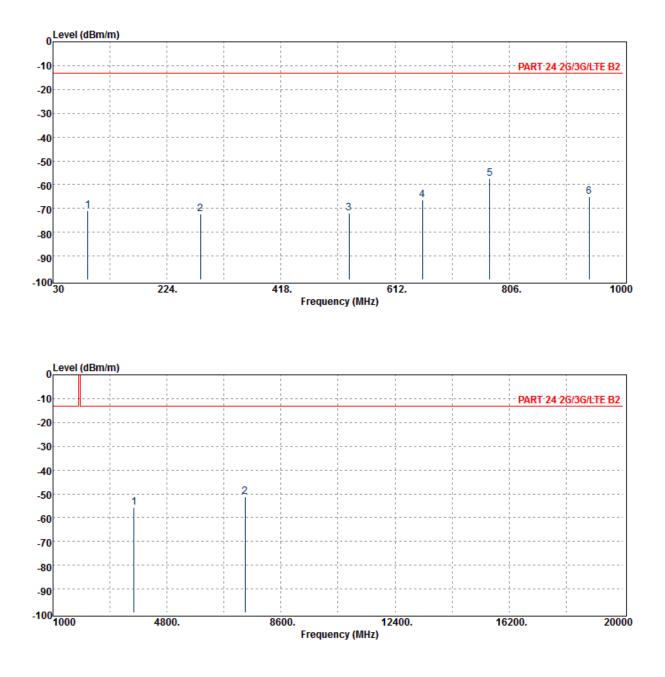
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Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 752 of 774

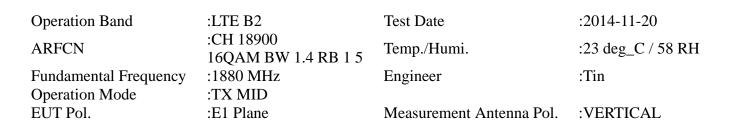


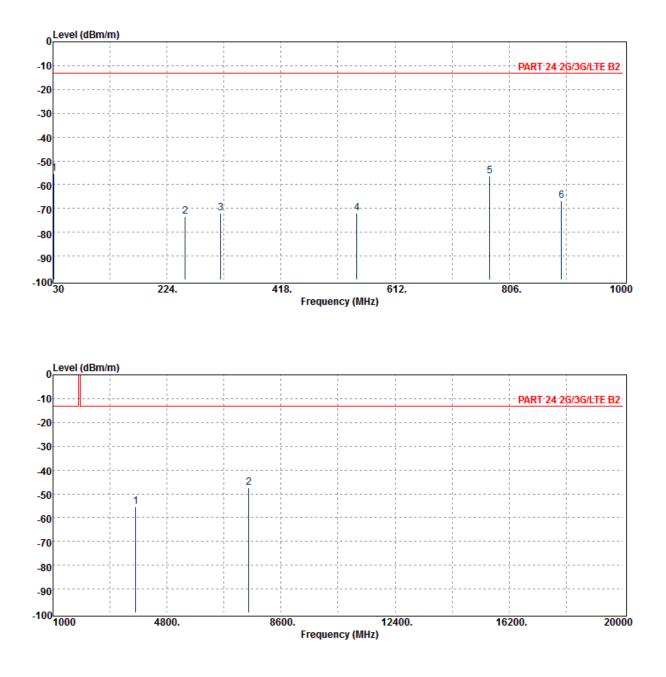


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Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 753 of 774



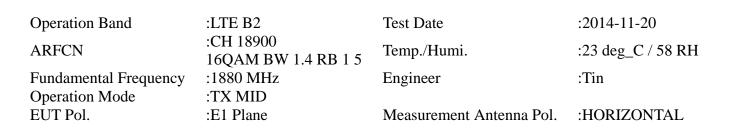


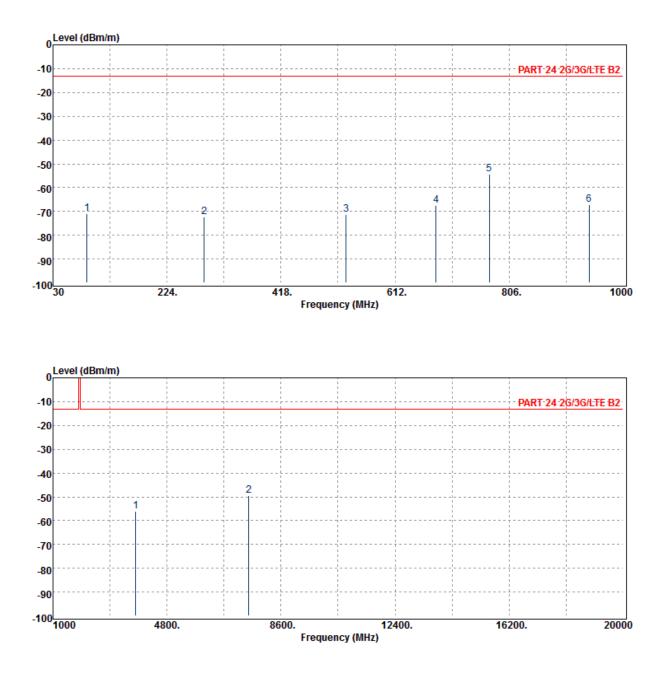
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Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 754 of 774



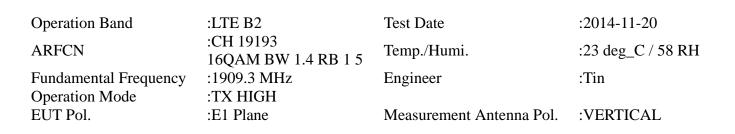


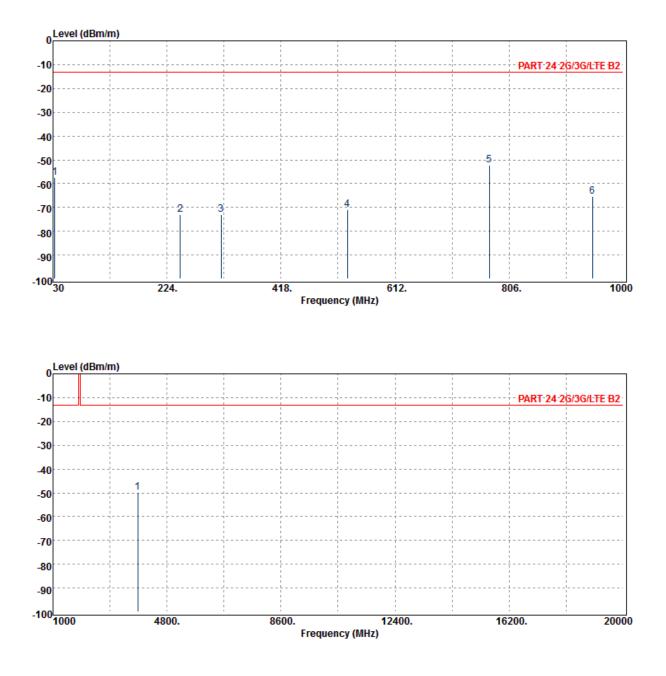
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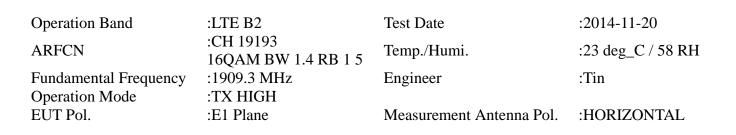


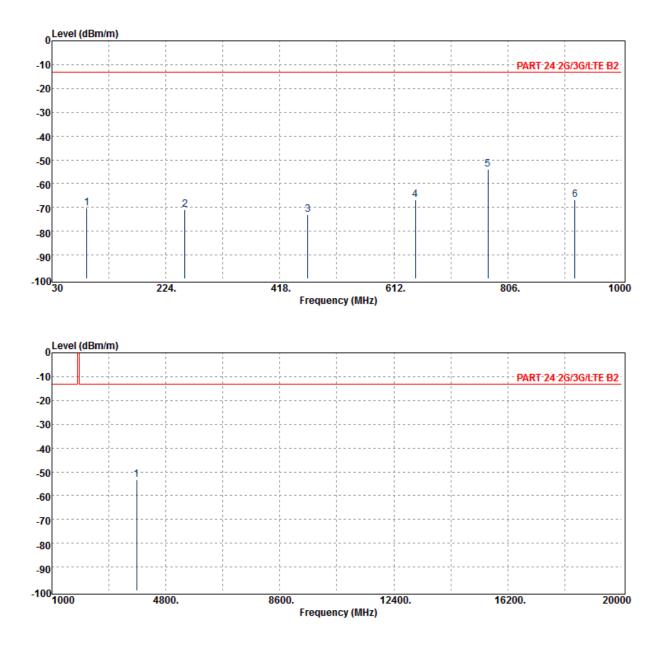
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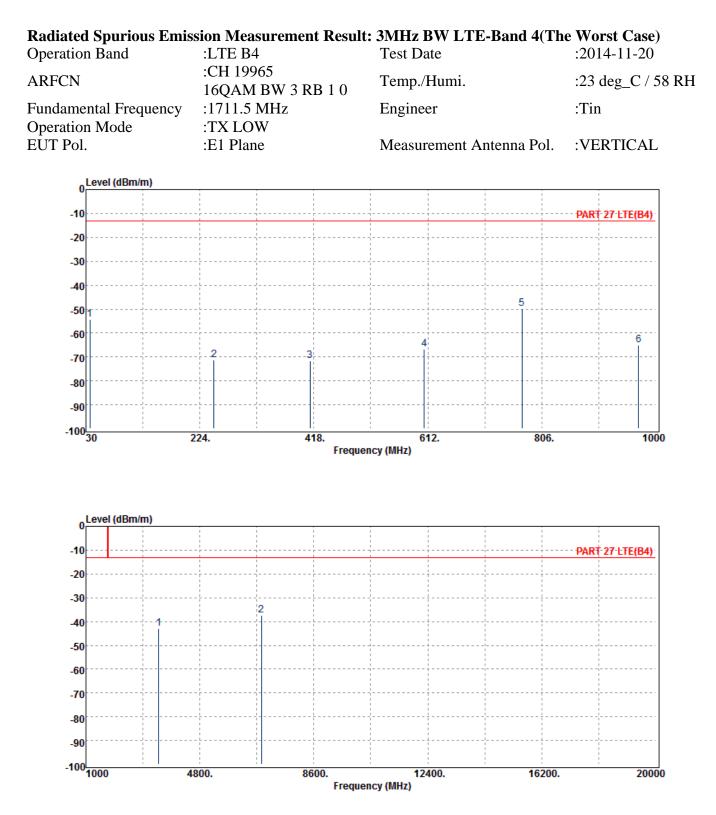
Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 756 of 774





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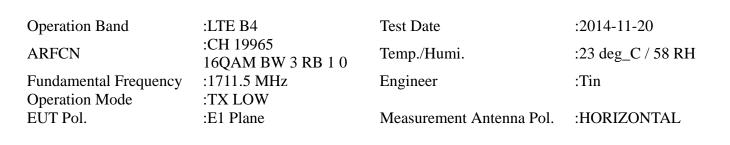


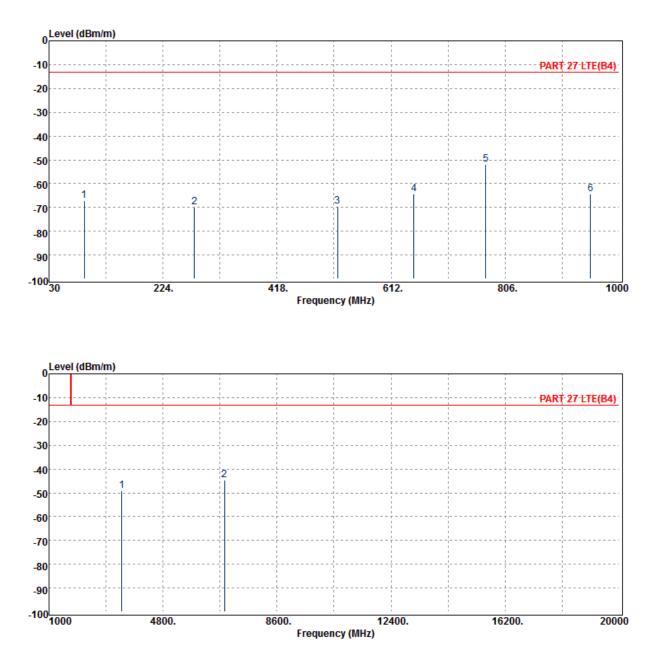
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Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 758 of 774

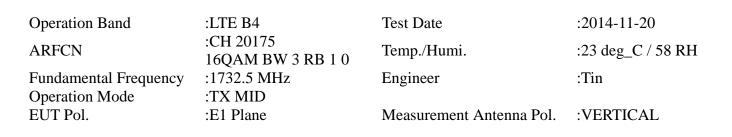


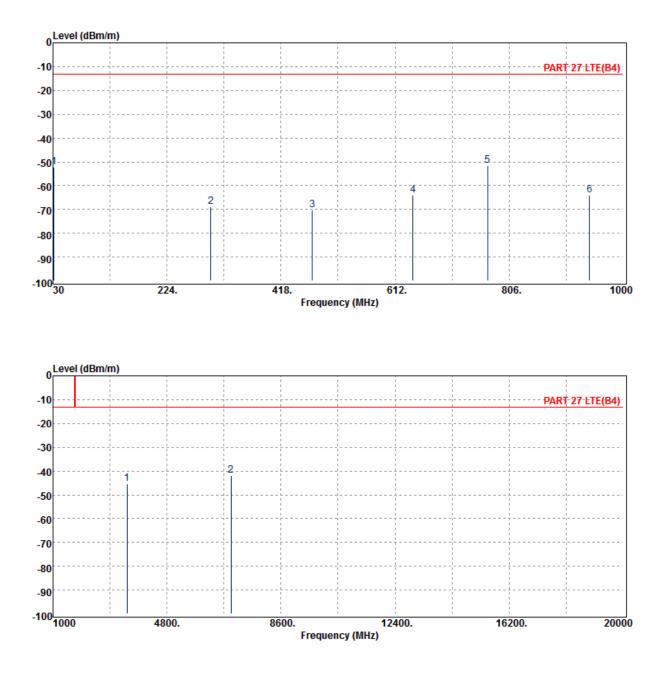


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Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 759 of 774

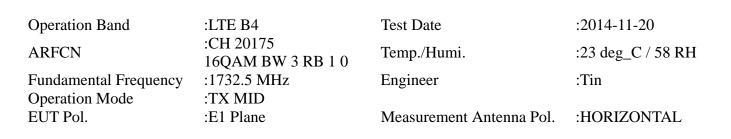


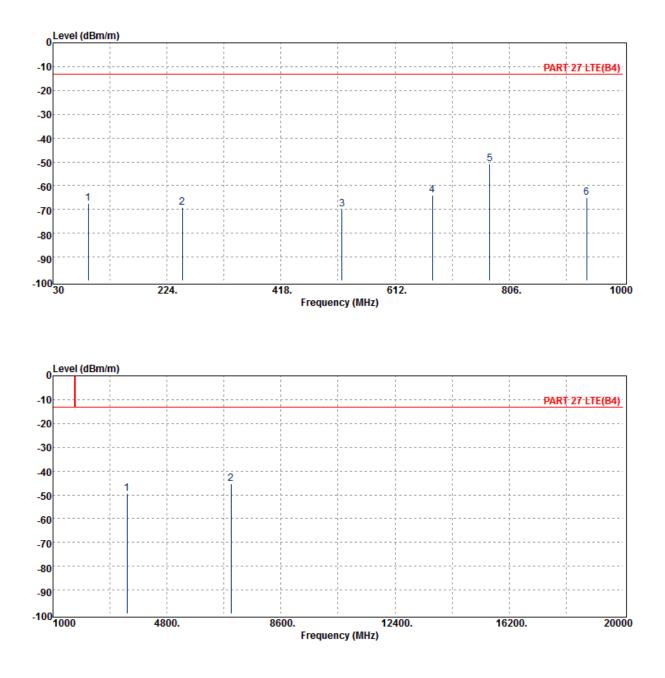


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Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 760 of 774

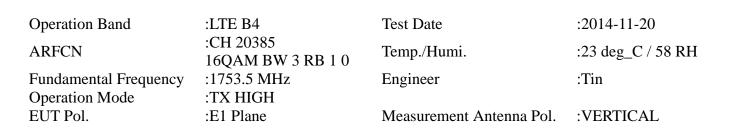


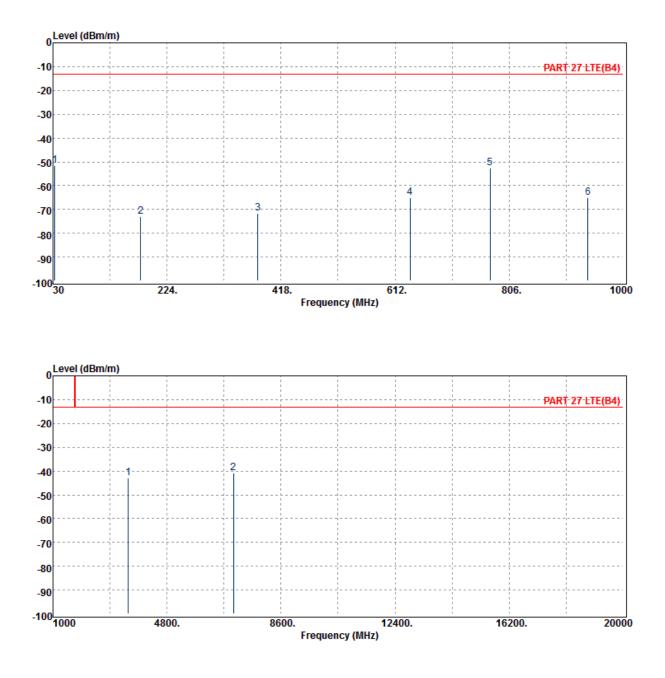


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Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 761 of 774

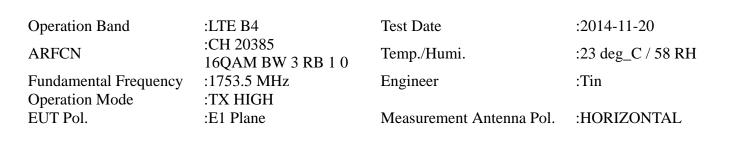


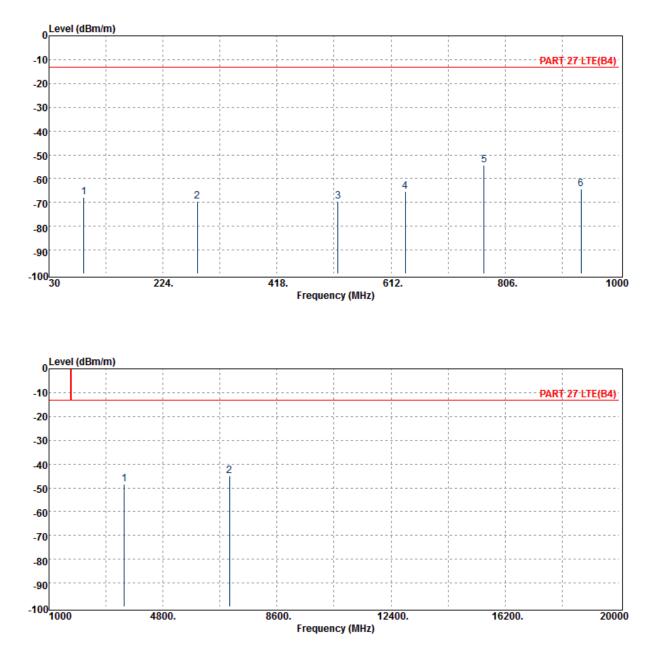


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Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 762 of 774



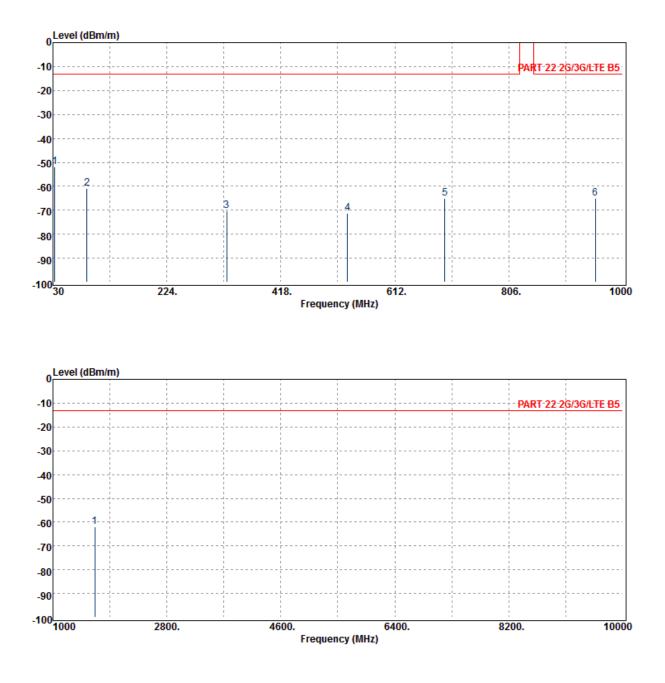


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Radiated Spurious Emission Measurement Result: 10MHz BW LTE-Band5(The Worst Case)

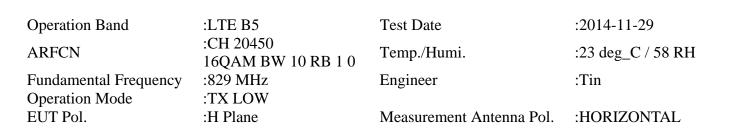
Operation Band	:LTE B5	Test Date	:2014-11-29
ARFCN	:CH 20450 16QAM BW 10 RB 1 0	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:829 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

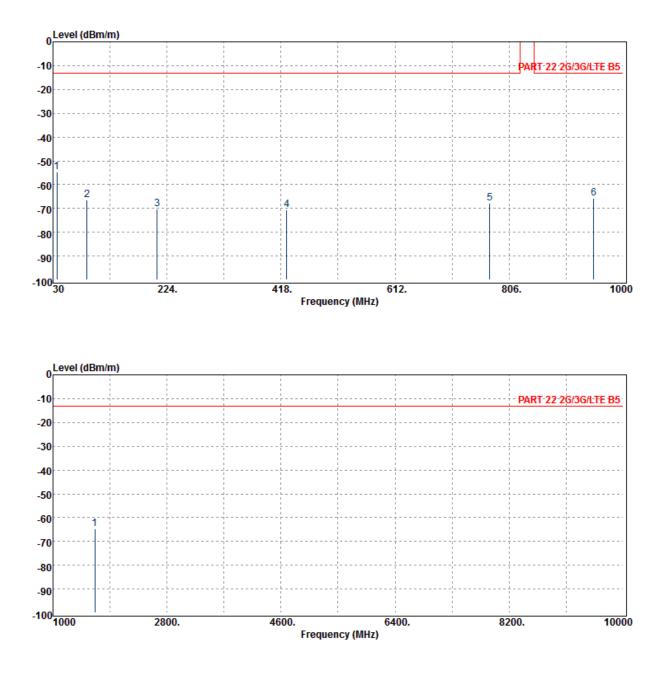


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Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 764 of 774

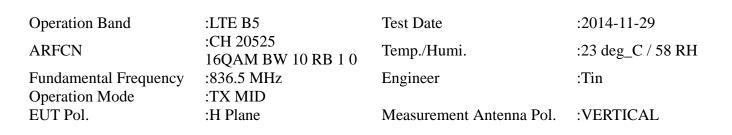


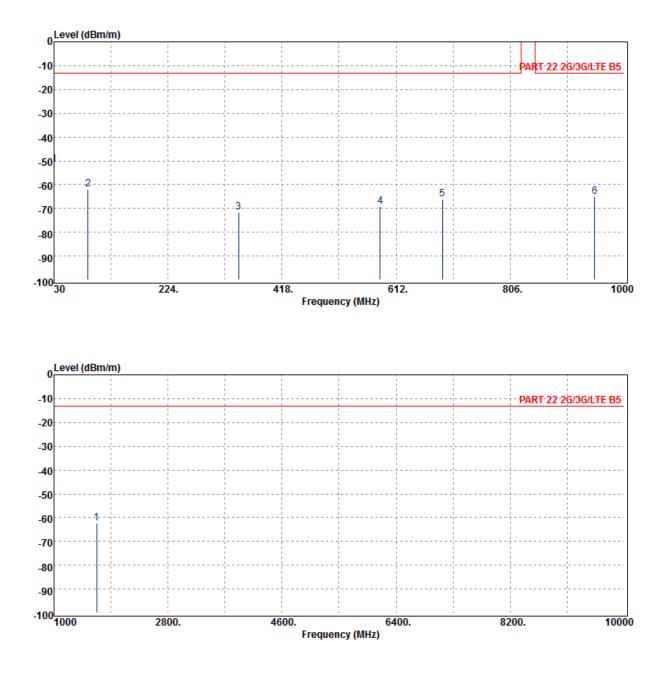


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Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 765 of 774

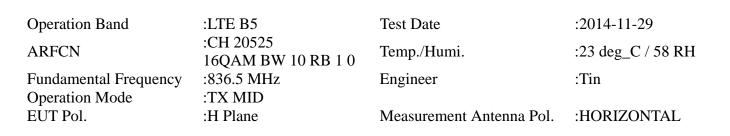


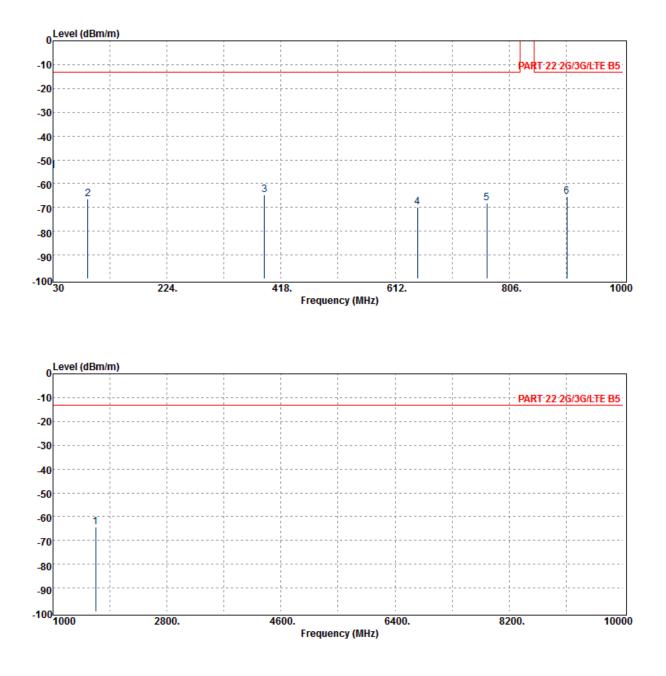


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Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 766 of 774

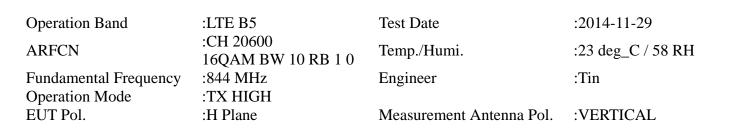


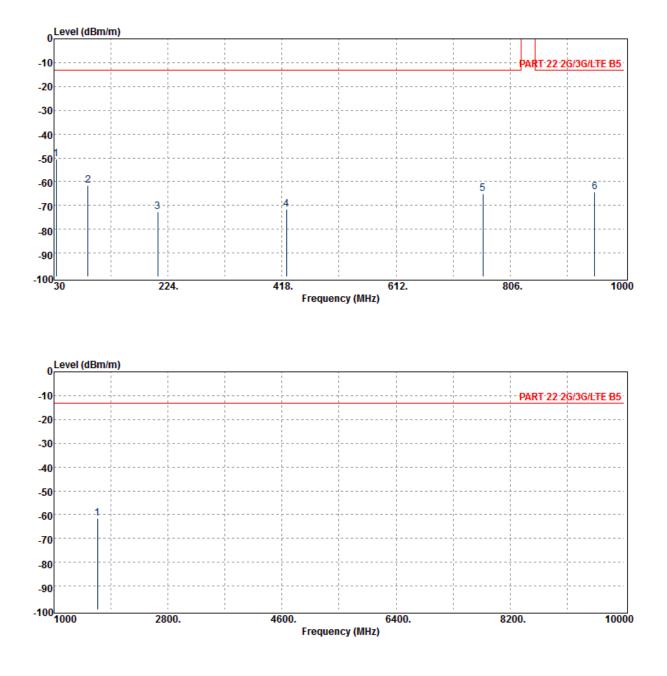


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Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 767 of 774

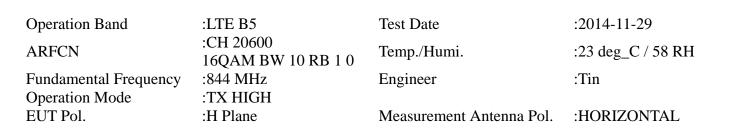


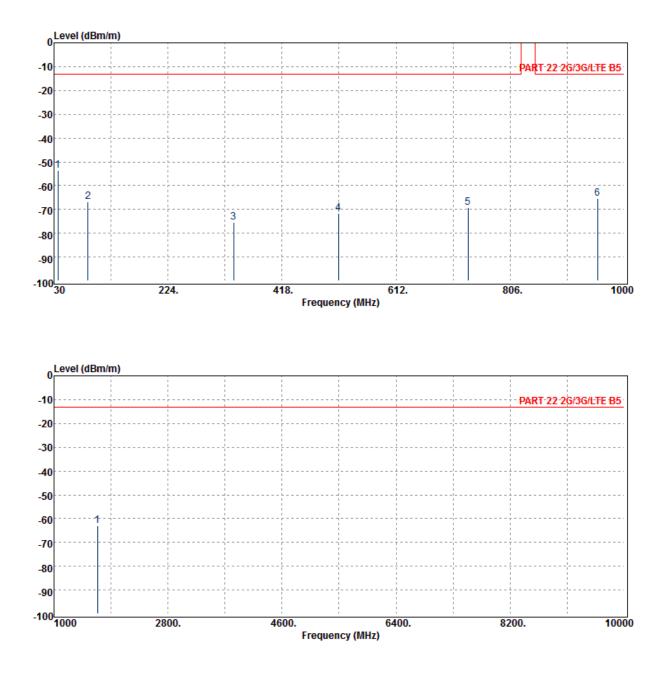


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Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 768 of 774



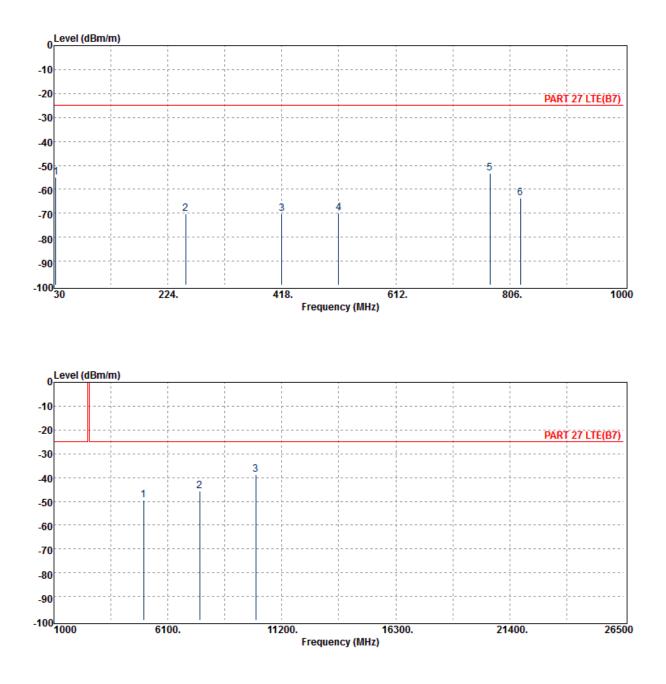


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Radiated Spurious Emission Measurement Result: 15MHz BW LTE-Band 7(The Worst Case)

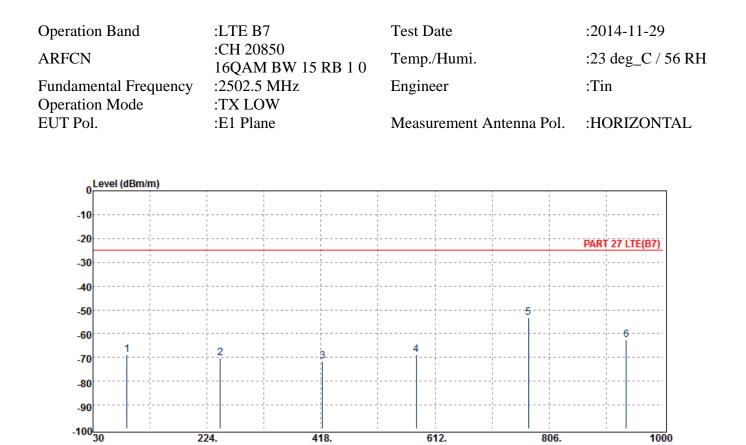
Operation Band	:LTE B7	Test Date	:2014-11-29
ARFCN	:CH 20850 16QAM BW 15 RB 1 0	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:2502.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

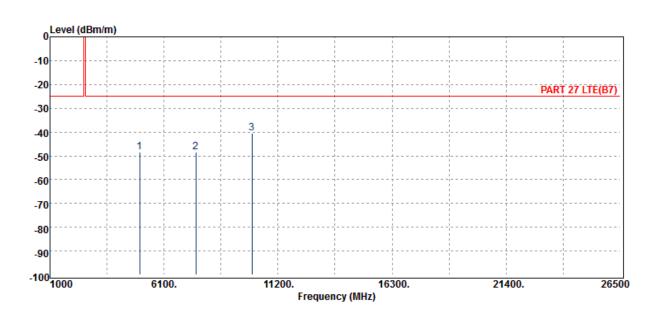


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Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 770 of 774





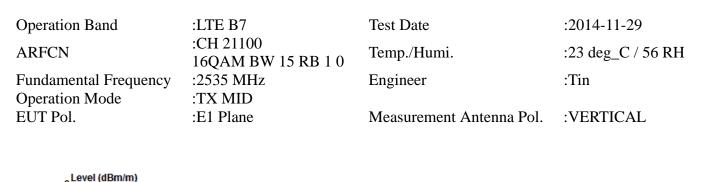
Frequency (MHz)

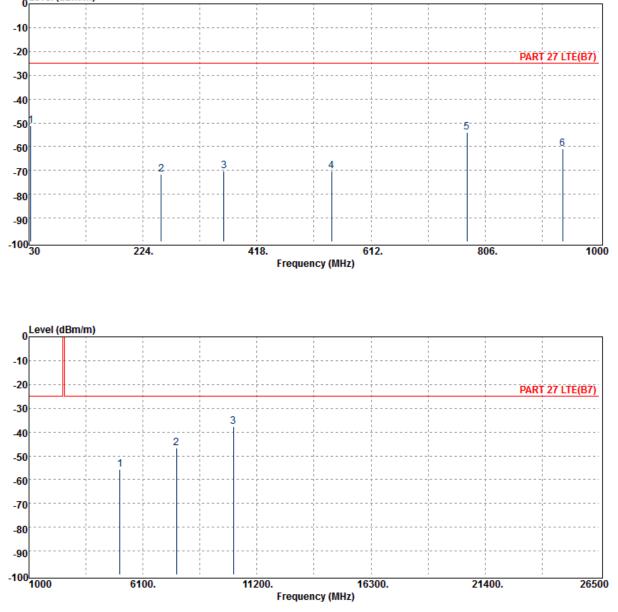
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Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 771 of 774

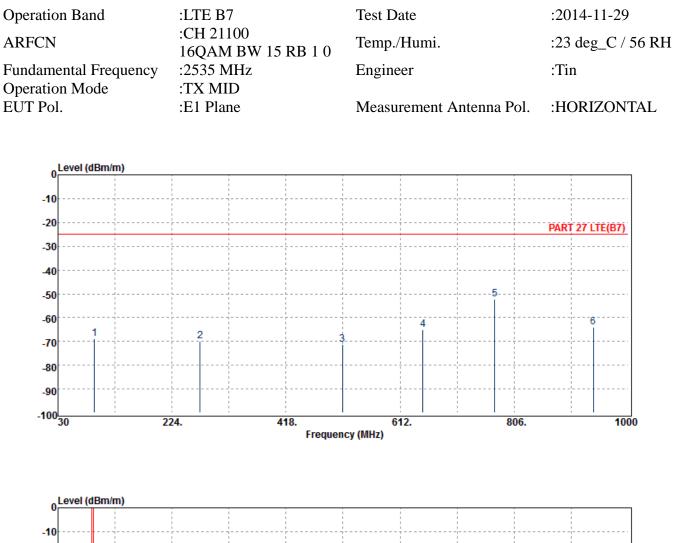


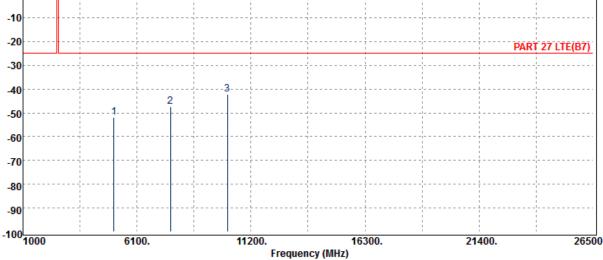


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Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 772 of 774





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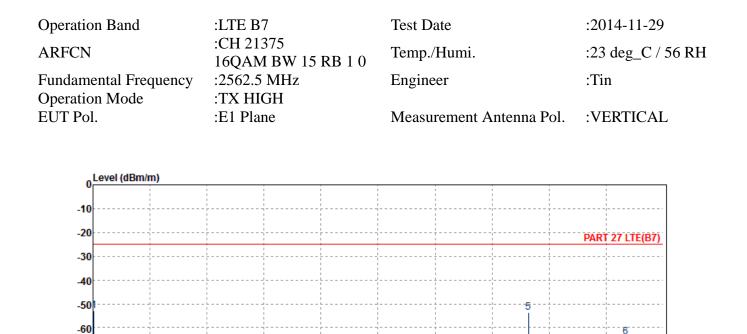


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Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 773 of 774



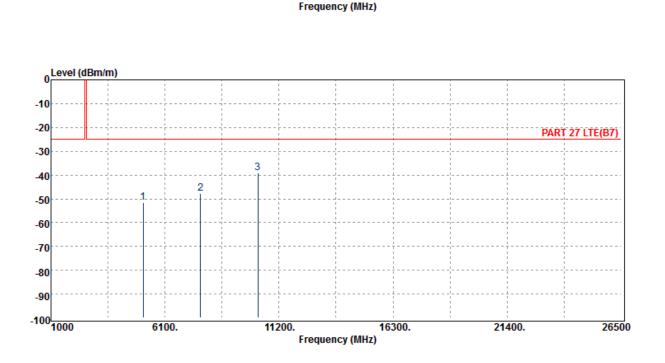
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Report No.: ER/2014/B0064 Issue Date: Jan. 09, 2015 Page: 774 of 774



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Frequency (MHz)

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16300.

26500

21400.