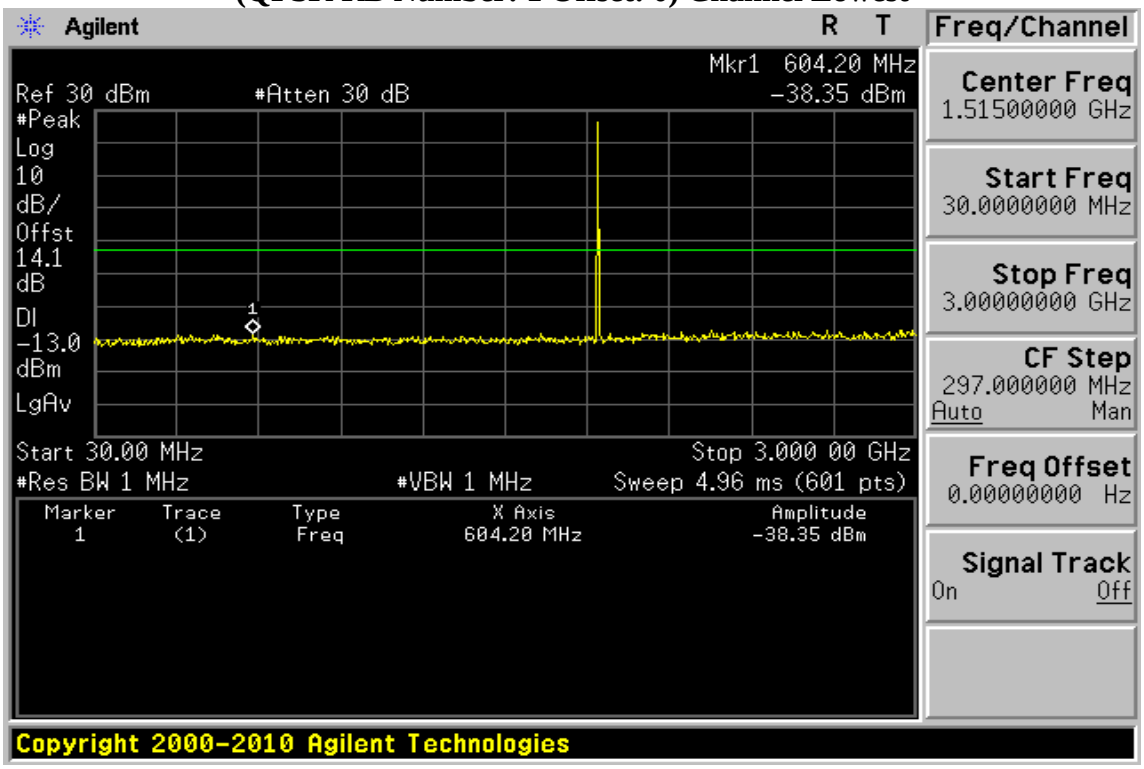
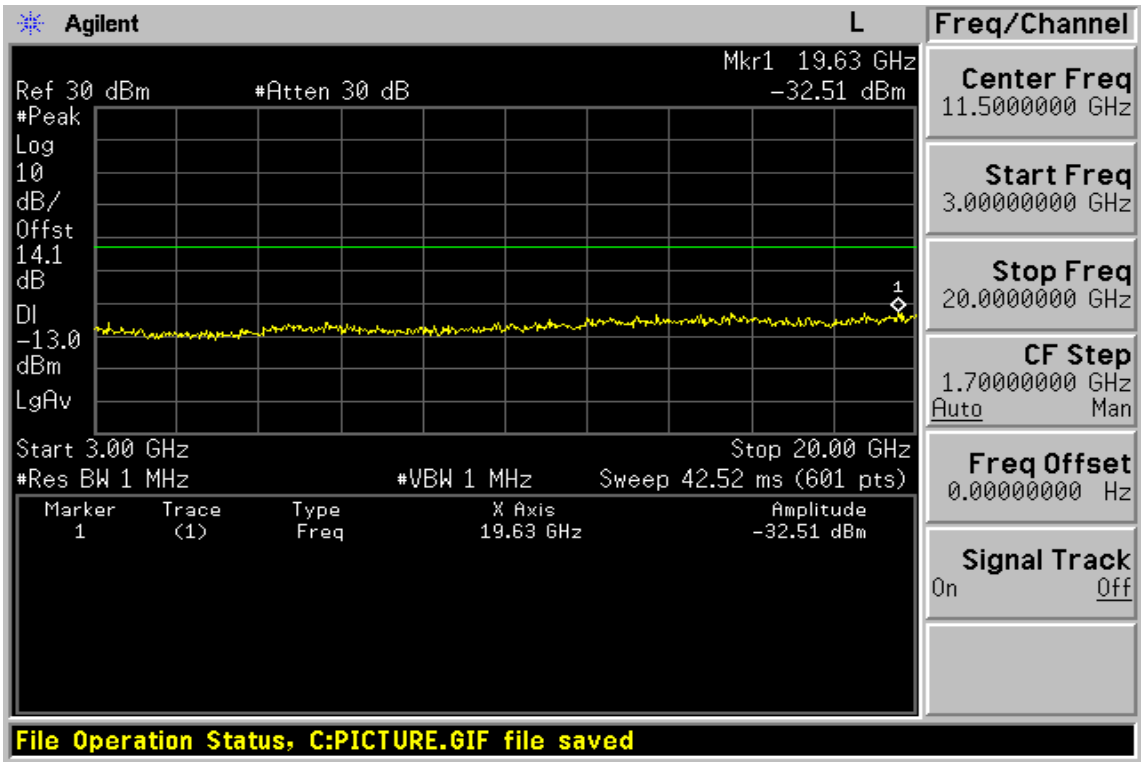
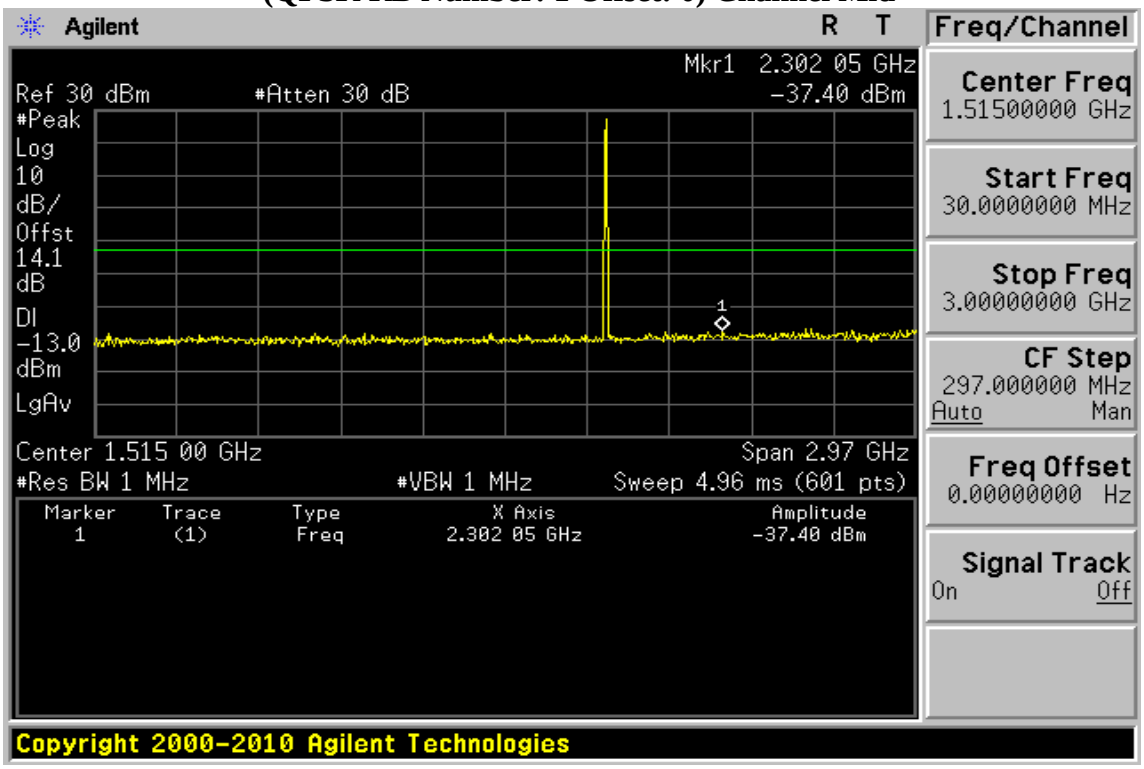
Figure 9-76: Out of Band emission at antenna terminals–1.4MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Lowest

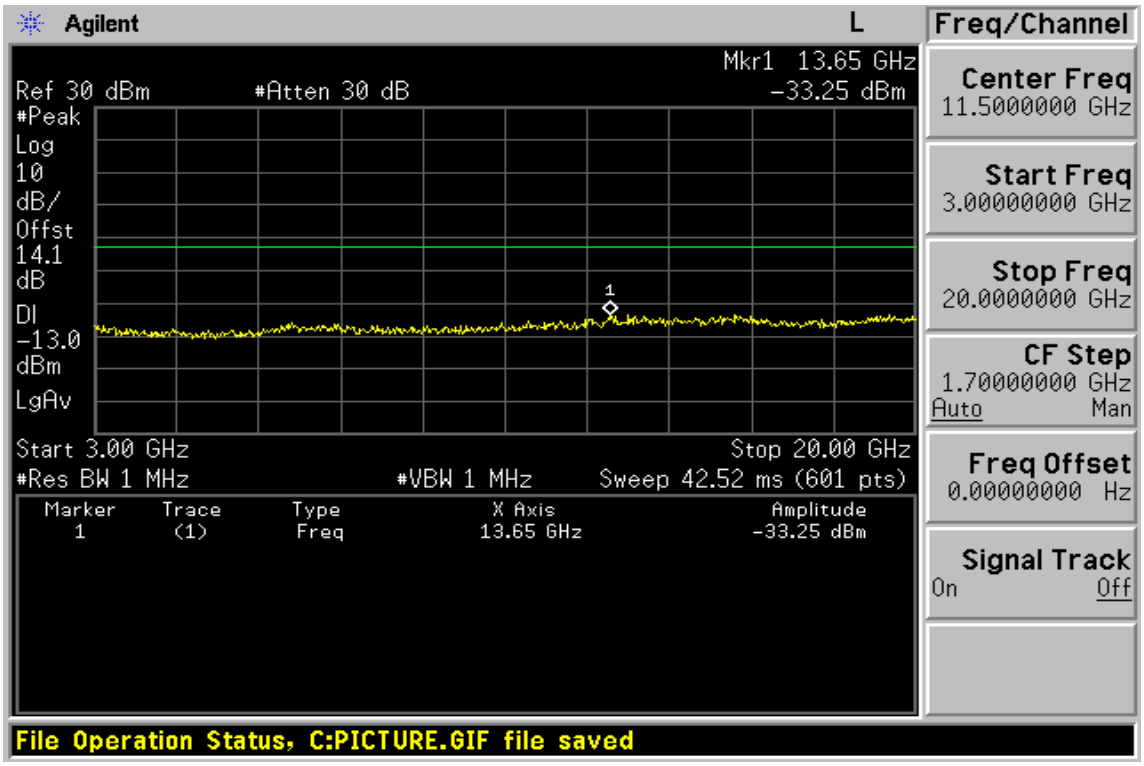




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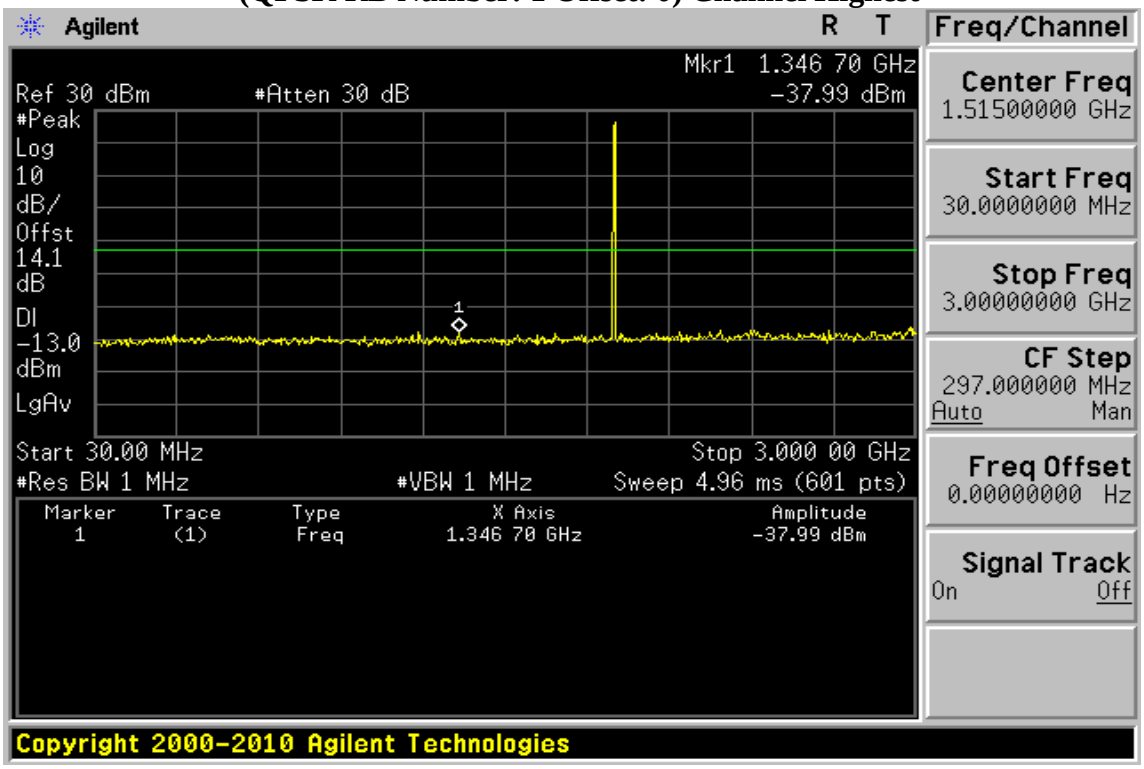
Figure 9-77: Out of Band emission at antenna terminals –1.4MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Mid

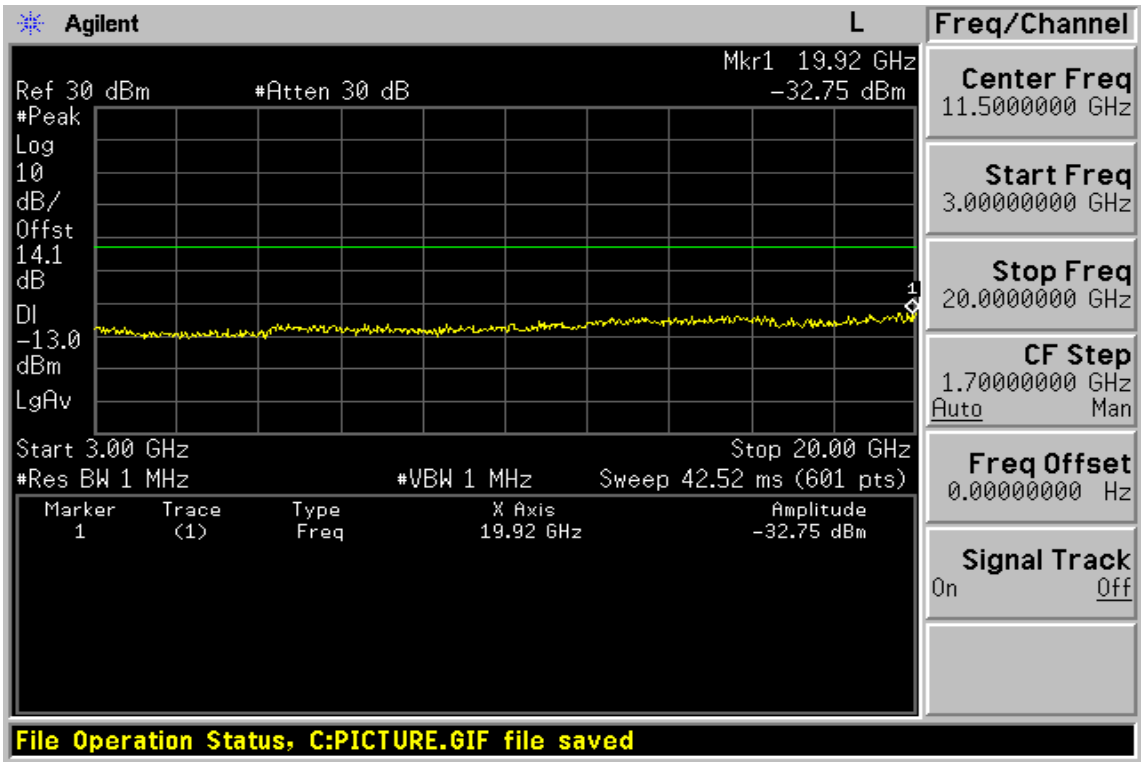




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Figure 9-78: Out of Band emission at antenna terminals–1.4MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Highest





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

(QPSK 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	H	---	-13.00	---
5552.10	H	---	-13.00	---
7402.80	H	---	-13.00	---
9253.50	H	---	-13.00	---
11104.20	H	---	-13.00	---
12954.90	H	---	-13.00	---
14805.60	H	---	-13.00	---
16656.30	H	---	-13.00	---
18507.00	H	---	-13.00	---
19630.00	S	-32.51	-13.00	19.51

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

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Fundamental Frequency :1880.0 MHz Engineer :Nick
Operation Mode :TX Mid

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	H	---	-13.00	---
5640.00	H	---	-13.00	---
7520.00	H	---	-13.00	---
9400.00	H	---	-13.00	---
11280.00	H	---	-13.00	---
13160.00	H	---	-13.00	---
13650.00	S	-33.25	-13.00	20.25
15040.00	H	---	-13.00	---
16920.00	H	---	-13.00	---
18800.00	H	---	-13.00	---

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

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Fundamental Frequency :1909.3 MHz Engineer :Nick
Operation Mode :TX High

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3818.60	H	---	-13.00	---
5727.90	H	---	-13.00	---
7637.20	H	---	-13.00	---
9546.50	H	---	-13.00	---
11455.80	H	---	-13.00	---
13365.10	H	---	-13.00	---
15274.40	H	---	-13.00	---
17183.70	H	---	-13.00	---
19093.00	H	---	-13.00	---
19920.00	S	-32.75	-13.00	19.75

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
“” : denotes Spurious Freque

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Figure 9-79: Band edge emission at antenna terminals –1.4MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Lowest

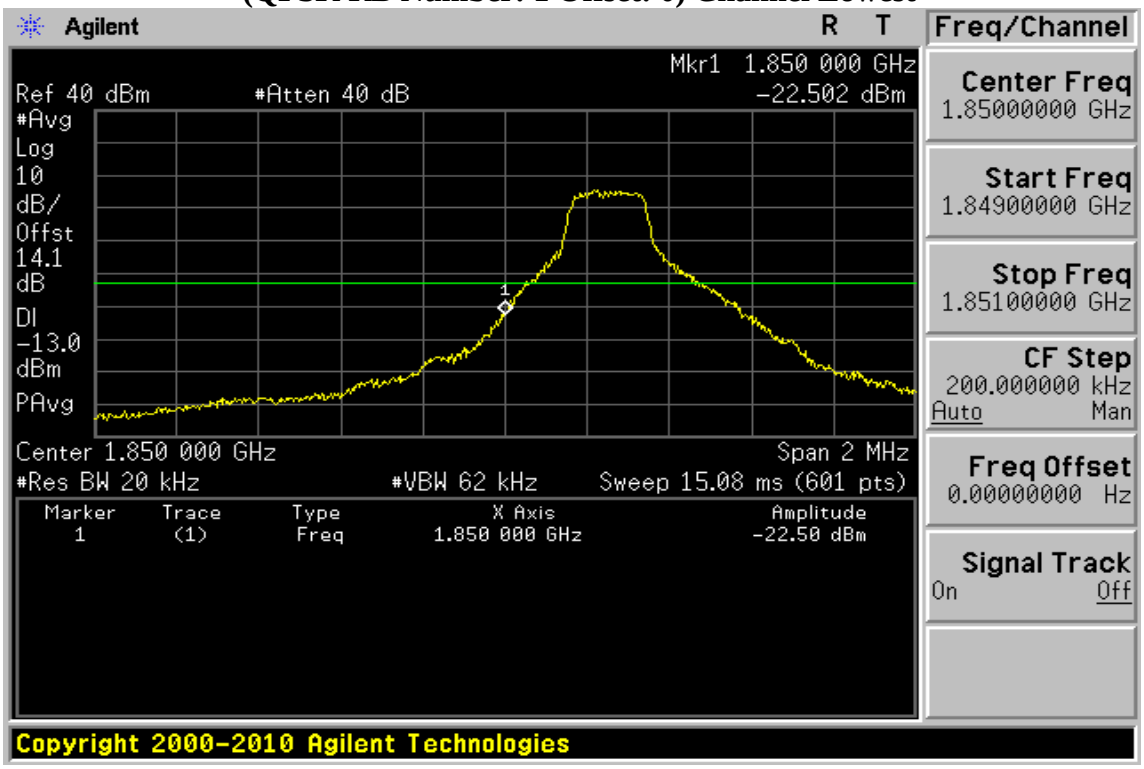
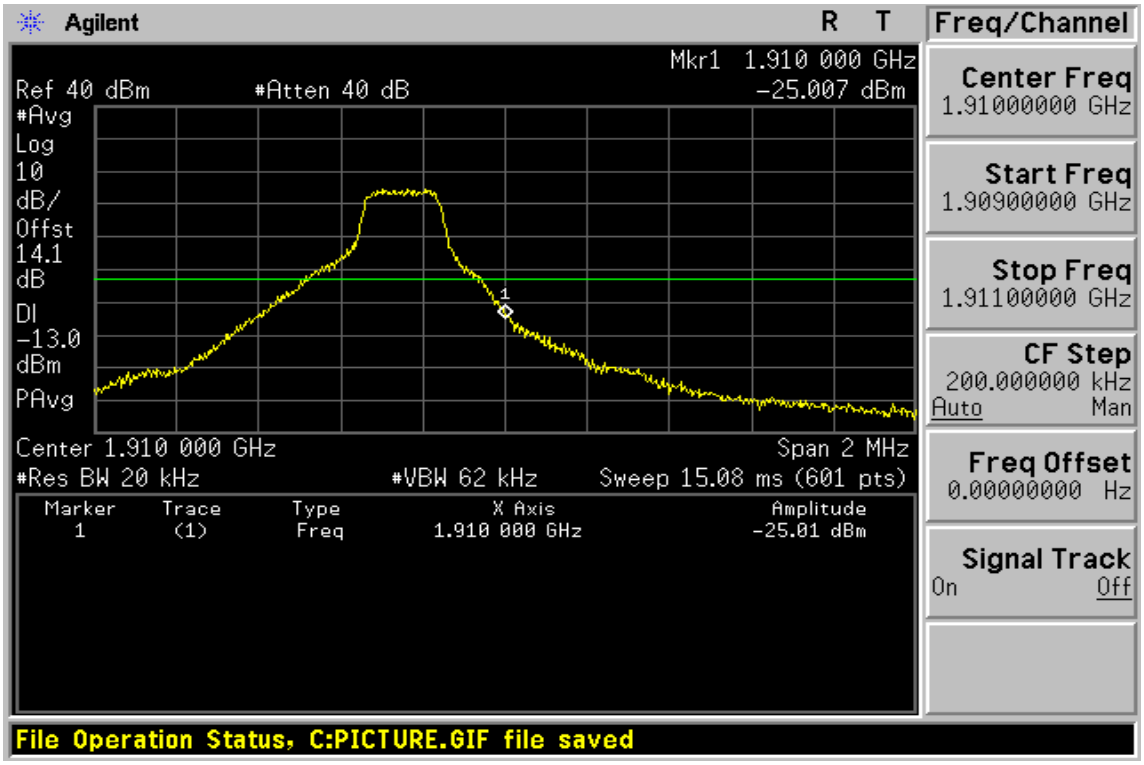


Figure 9-80: Band edge emission at antenna terminals –1.4MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 5) Channel Highest



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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)

Test Mode 1.4MHz BW LTE-Band 2 Engineer :Nick

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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Figure 9-81: Band edge emission at antenna terminals –1.4MHz BW LTE-Band 2 (QPSK RB Number: 6 Offset: 0) Channel Lowest

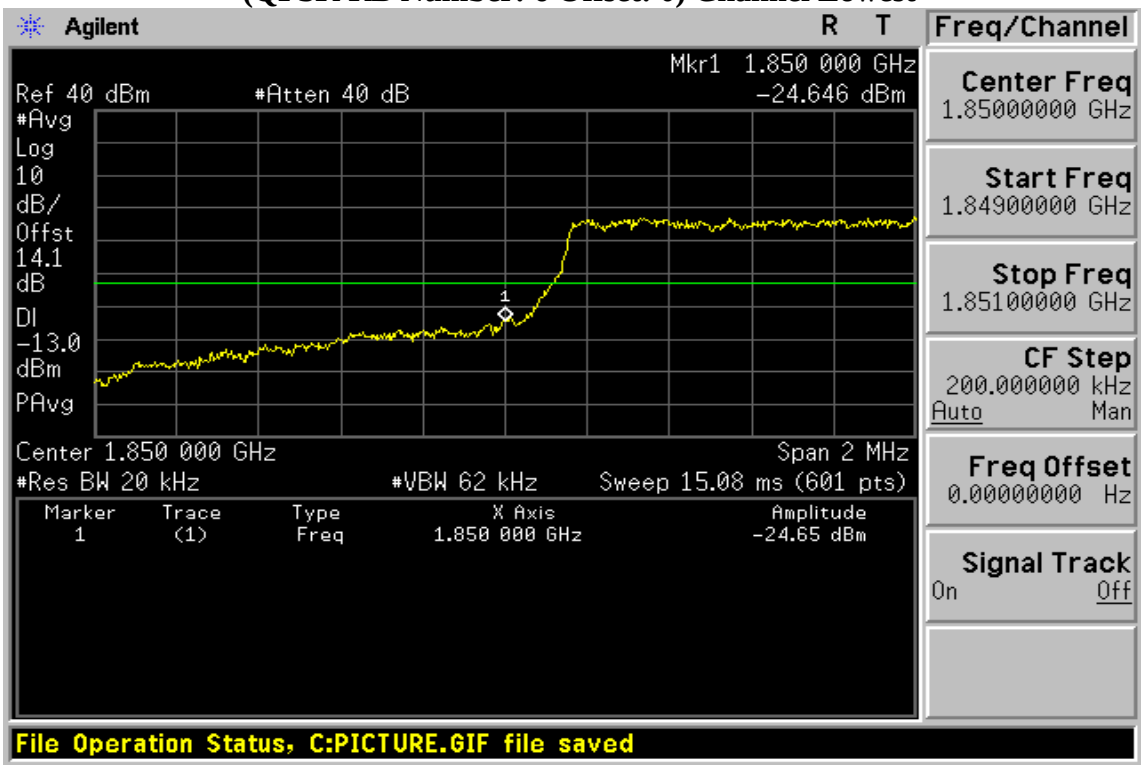
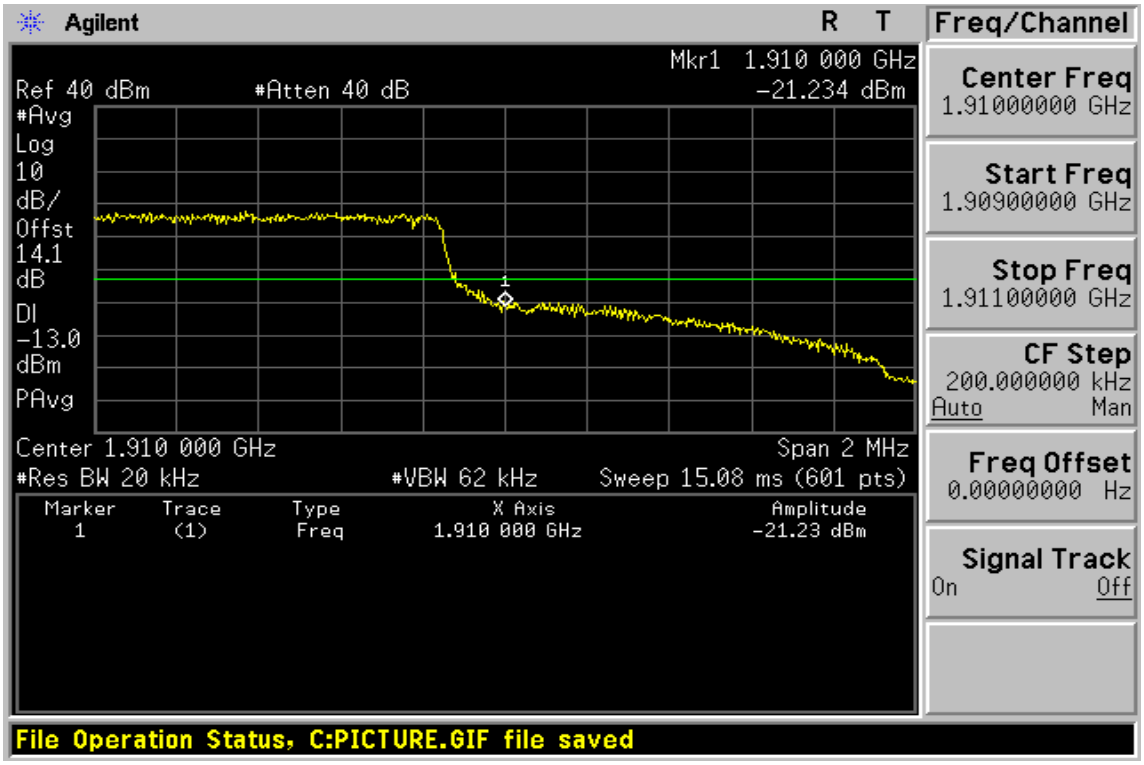


Figure 9-82: Band edge emission at antenna terminals –1.4MHz BW LTE-Band 2 (QPSK RB Number: 6 Offset: 0) Channel Highest



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

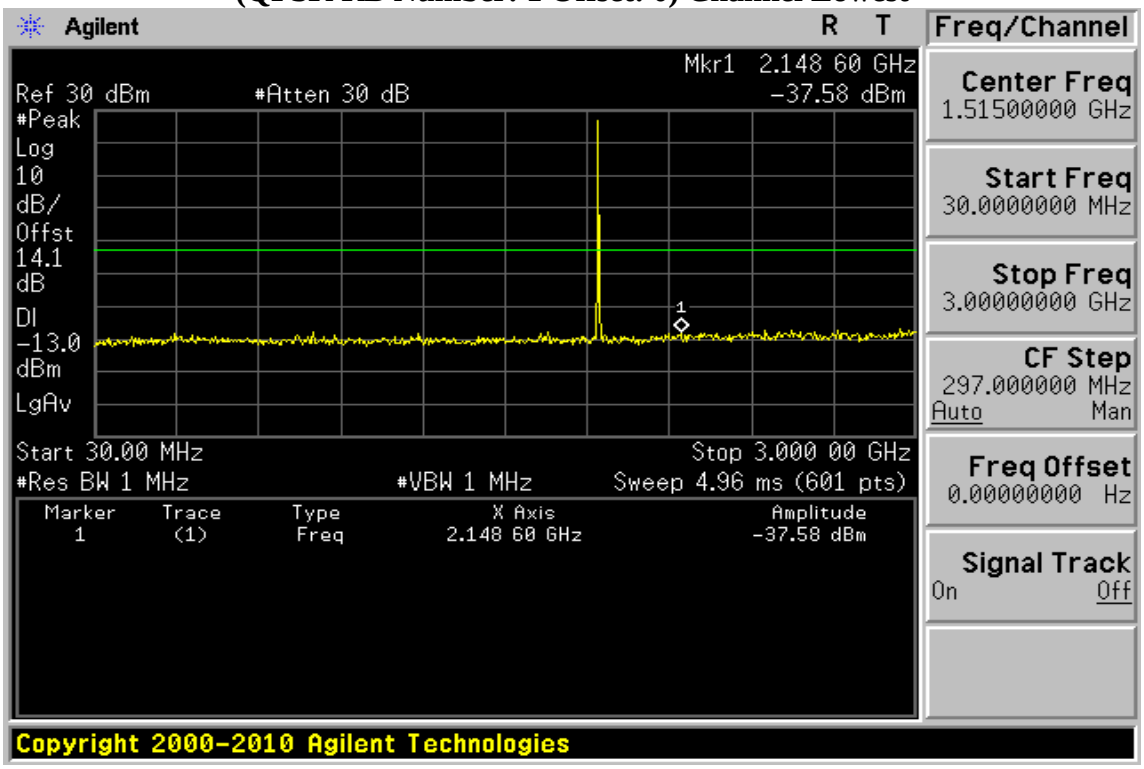
(QPSK RB Number: 6 Offset: 0)

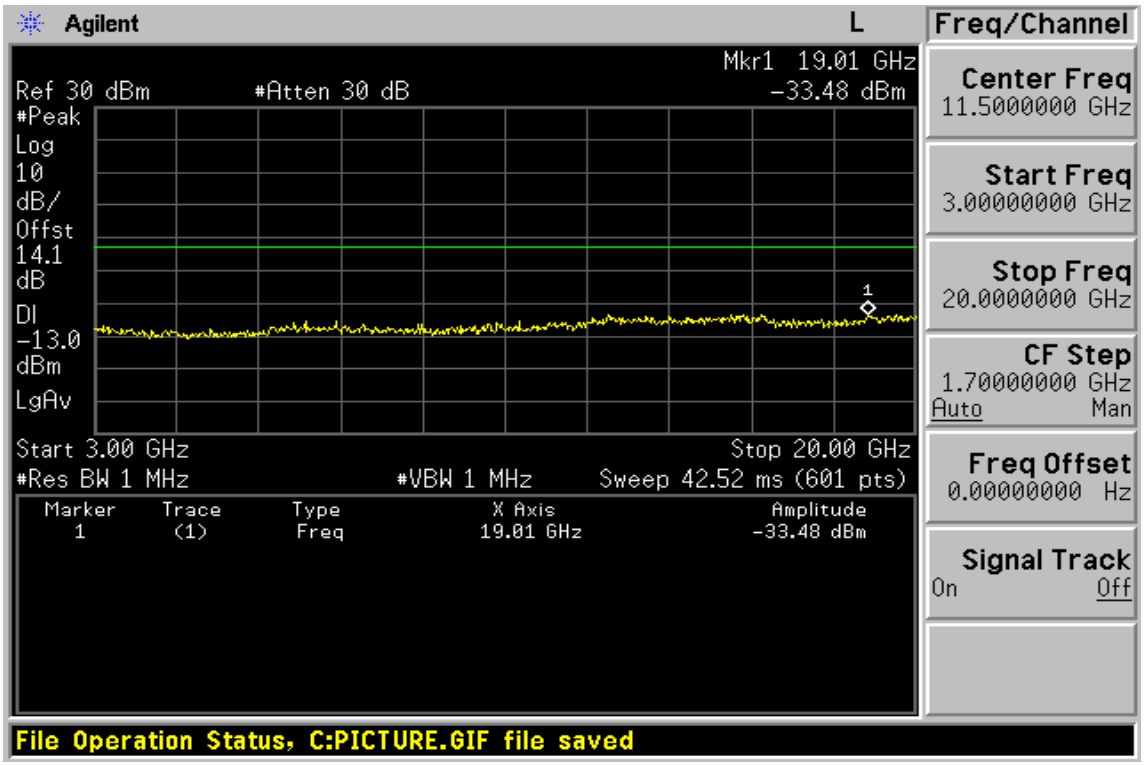
Test Mode 1.4MHz BW LTE-Band 2 Engineer :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1850.000	-24.65	-13.00	11.65
1910.000	-21.23	-13.00	8.23

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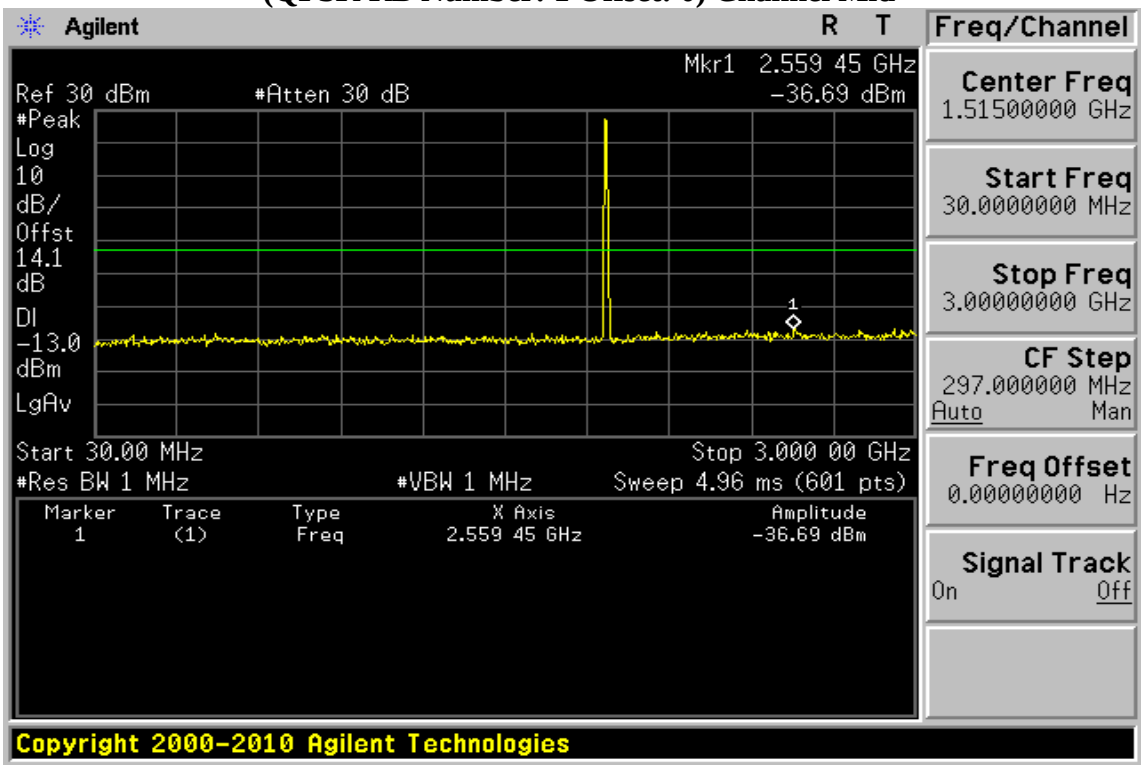
Figure 9-83: Out of Band emission at antenna terminals–3MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Lowest

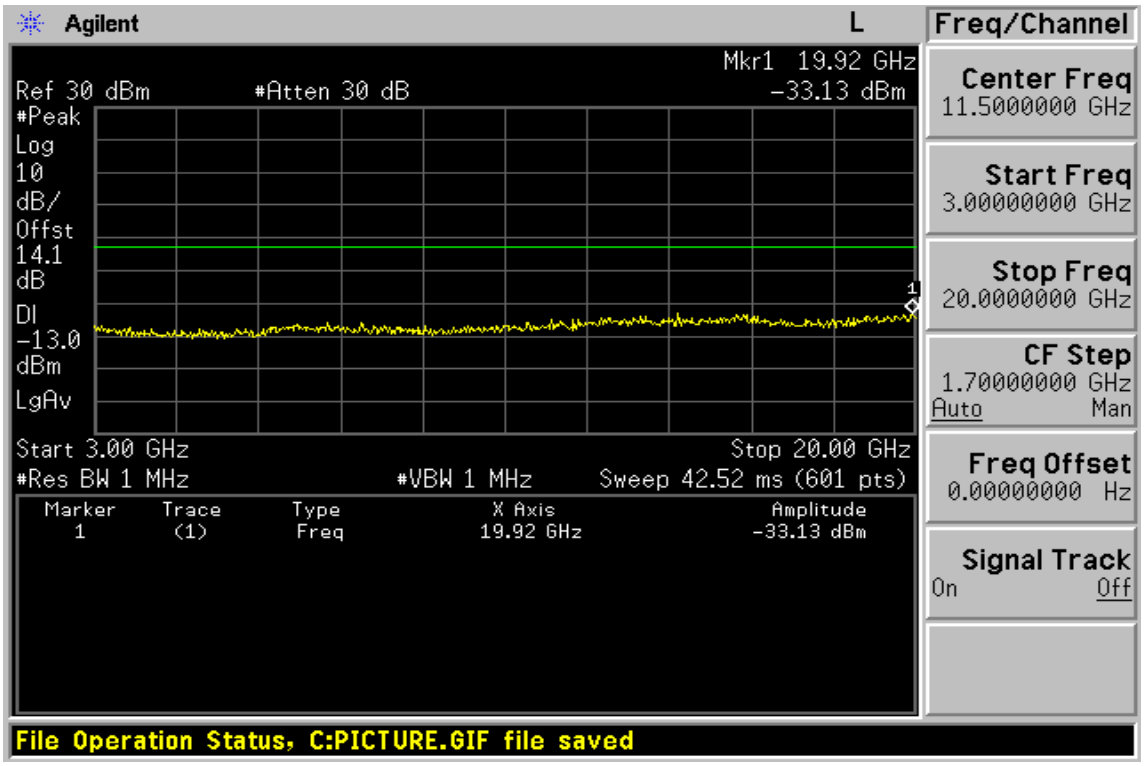




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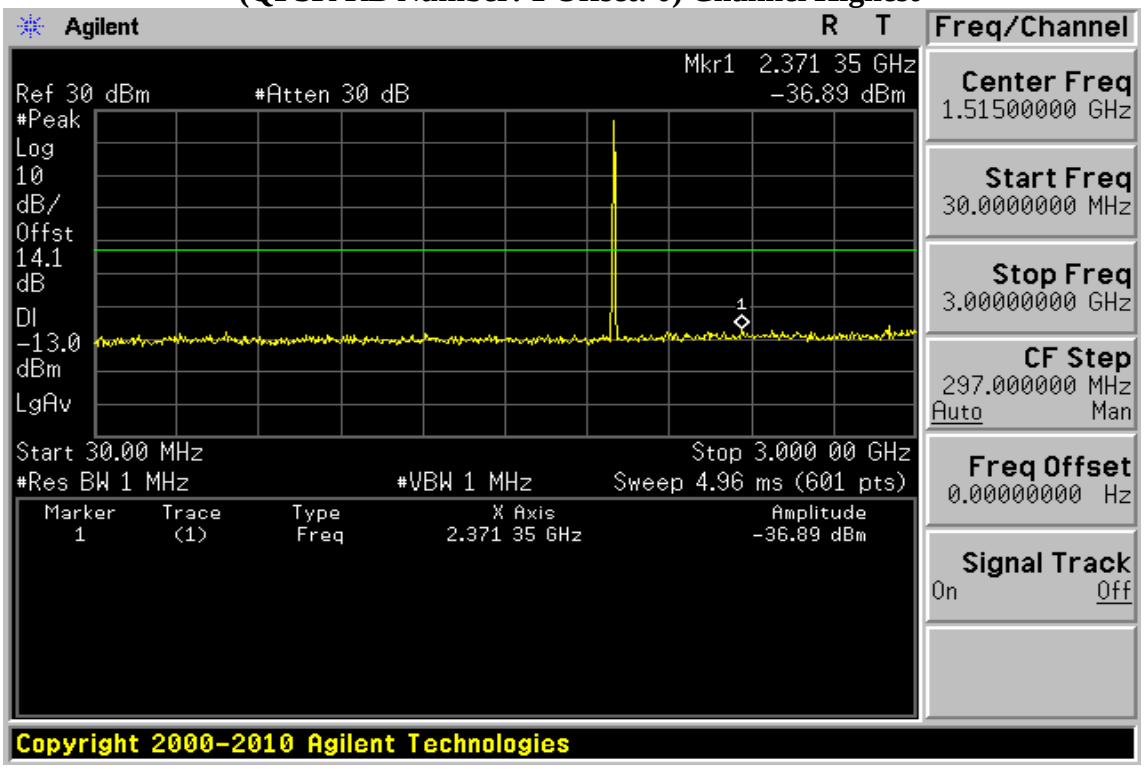
Figure 9-84: Out of Band emission at antenna terminals –3MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Mid

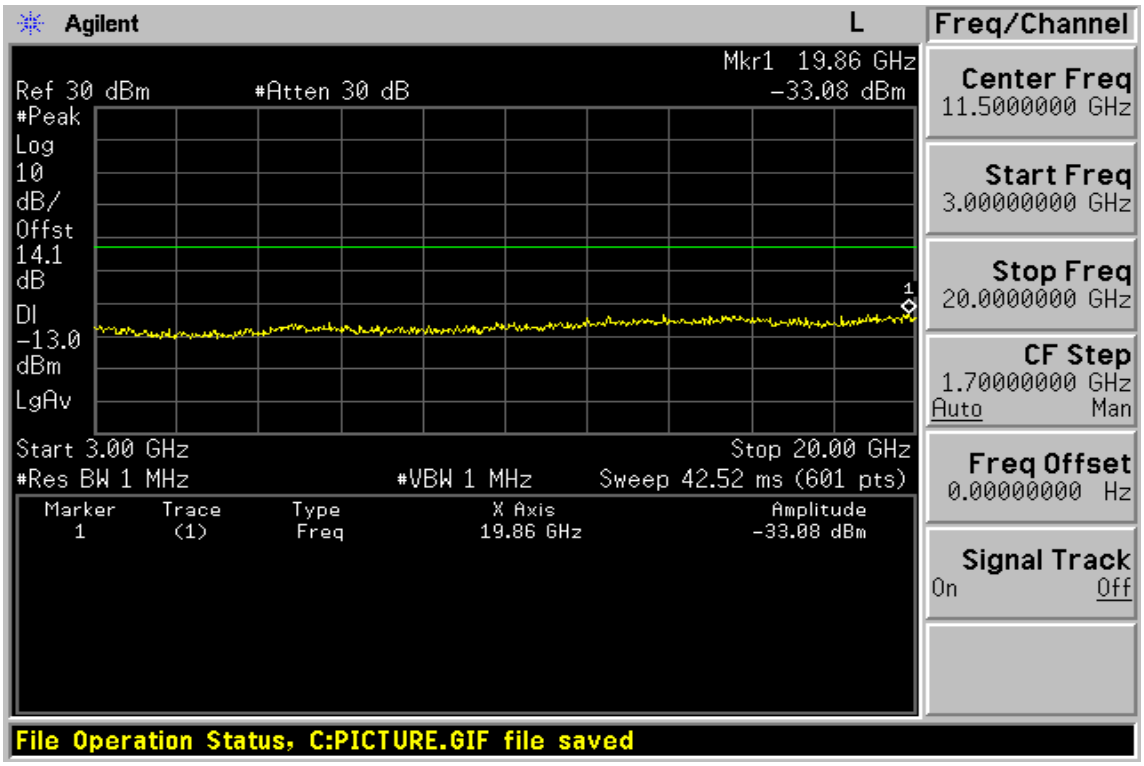




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Figure 9-85: Out of Band emission at antenna terminals–3MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Highest





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

(QPSK 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	H	---	-13.00	---
5554.50	H	---	-13.00	---
7406.00	H	---	-13.00	---
9257.50	H	---	-13.00	---
11109.00	H	---	-13.00	---
12960.50	H	---	-13.00	---
14812.00	H	---	-13.00	---
16663.50	H	---	-13.00	---
18515.00	H	---	-13.00	---
19010.00	S	-33.48	-13.00	20.48

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

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Fundamental Frequency :1880.0 MHz Engineer :Nick
Operation Mode :TX Mid

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	H	---	-13.00	---
5640.00	H	---	-13.00	---
7520.00	H	---	-13.00	---
9400.00	H	---	-13.00	---
11280.00	H	---	-13.00	---
13160.00	H	---	-13.00	---
15040.00	H	---	-13.00	---
16920.00	H	---	-13.00	---
18800.00	H	---	-13.00	---
19920.00	S	-33.13	-13.00	20.13

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

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Fundamental Frequency :1908.5 MHz Engineer :Nick
Operation Mode :TX High

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3817.00	H	---	-13.00	---
5725.50	H	---	-13.00	---
7634.00	H	---	-13.00	---
9542.50	H	---	-13.00	---
11451.00	H	---	-13.00	---
13359.50	H	---	-13.00	---
15268.00	H	---	-13.00	---
17176.50	H	---	-13.00	---
19085.00	H	---	-13.00	---
19860.00	S	-33.08	-13.00	20.08

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

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Figure 9-86: Band edge emission at antenna terminals –3MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Lowest

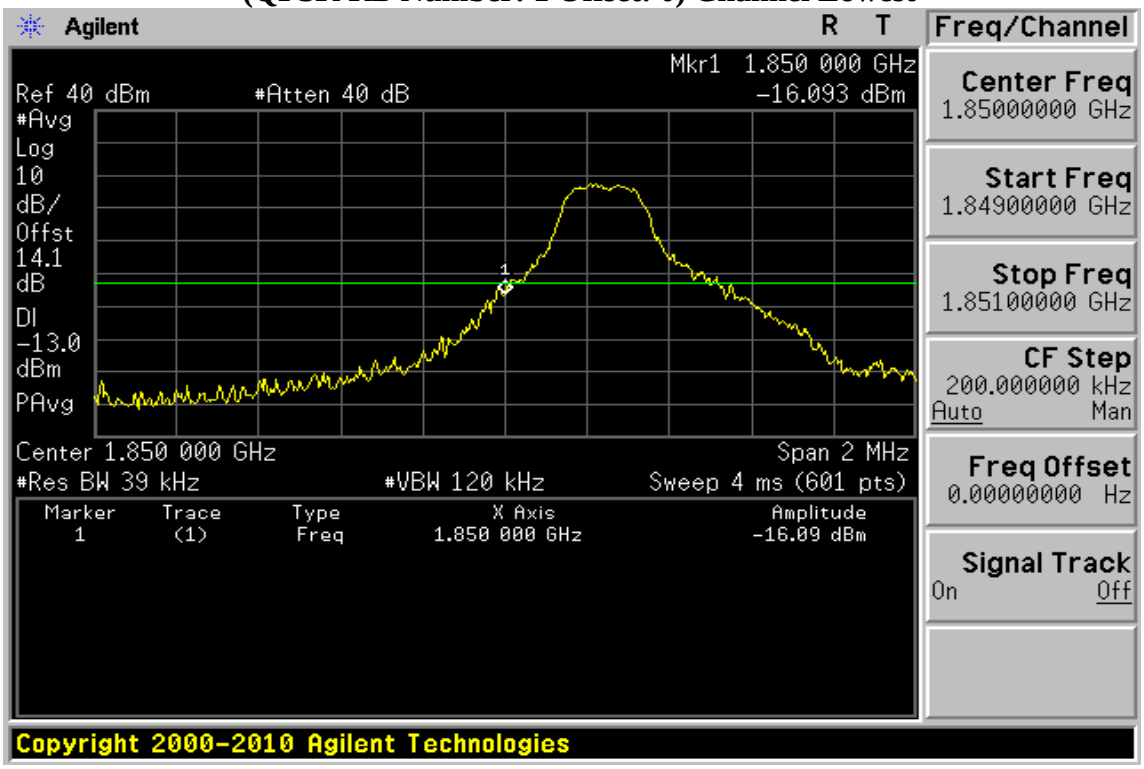
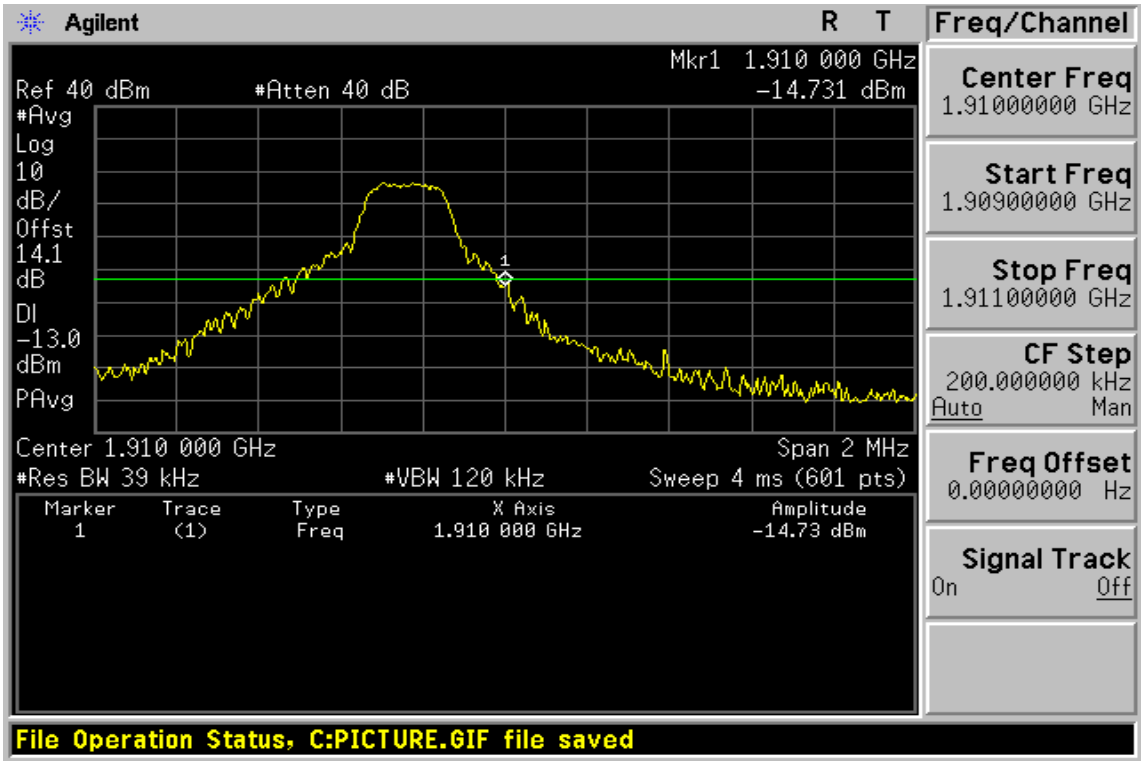


Figure 9-87: Band edge emission at antenna terminals –3MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 24) Channel Highest



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

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

Test Mode 3MHz BW LTE-Band 2 Engineer :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1850.000	-16.09	-13.00	3.09
1910.000	-14.73	-13.00	1.73

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Figure 9-88: Band edge emission at antenna terminals –3MHz BW LTE-Band 2 (QPSK RB Number: 15 Offset: 0) Channel Lowest

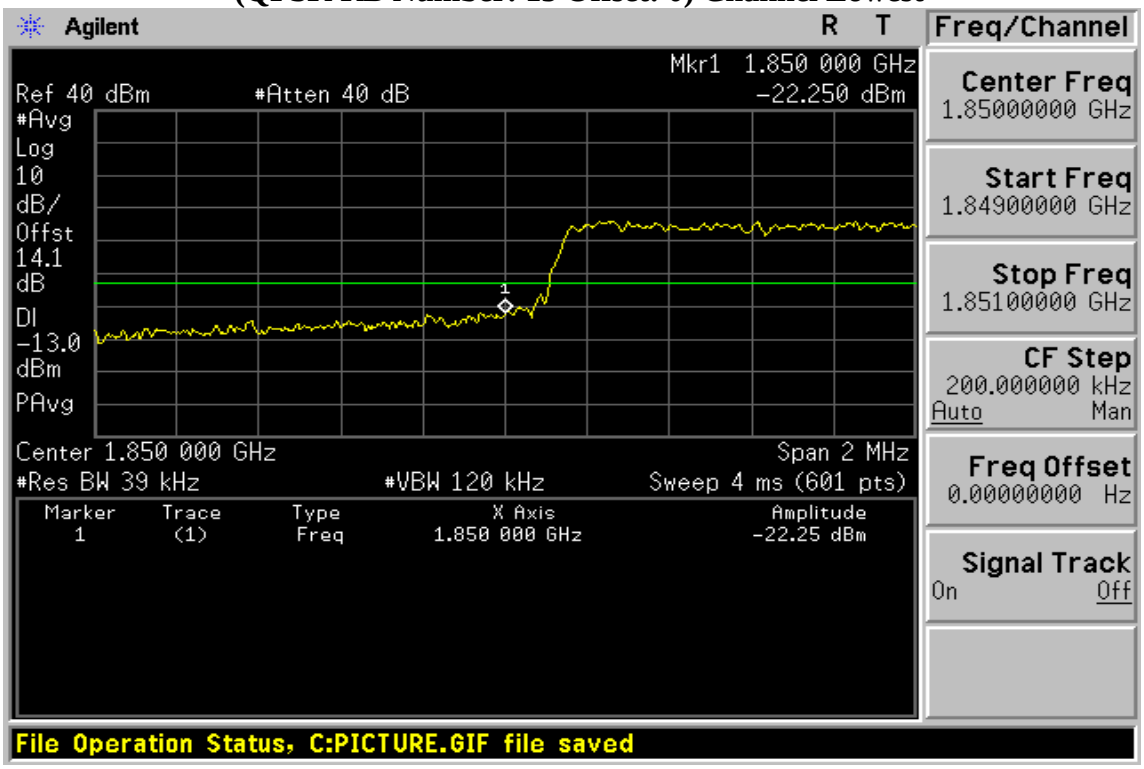
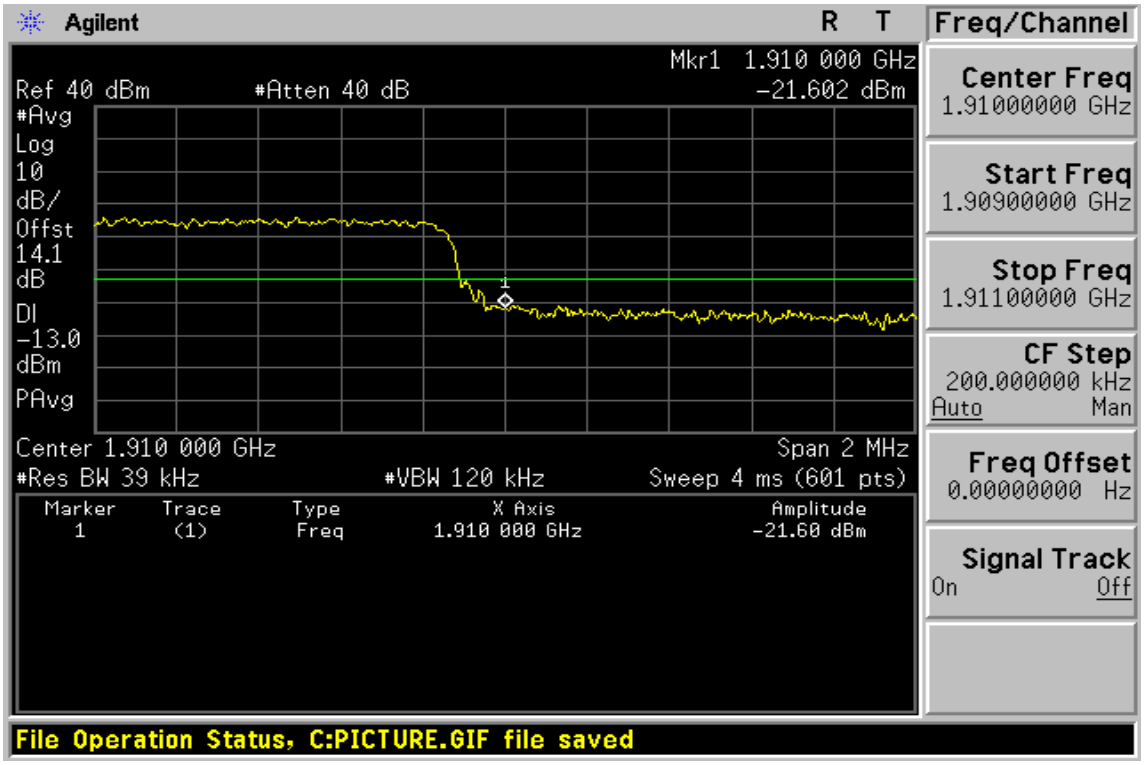


Figure 9-89: Band edge emission at antenna terminals –3MHz BW LTE-Band 2 (QPSK RB Number: 25 Offset: 0) Channel Highest



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

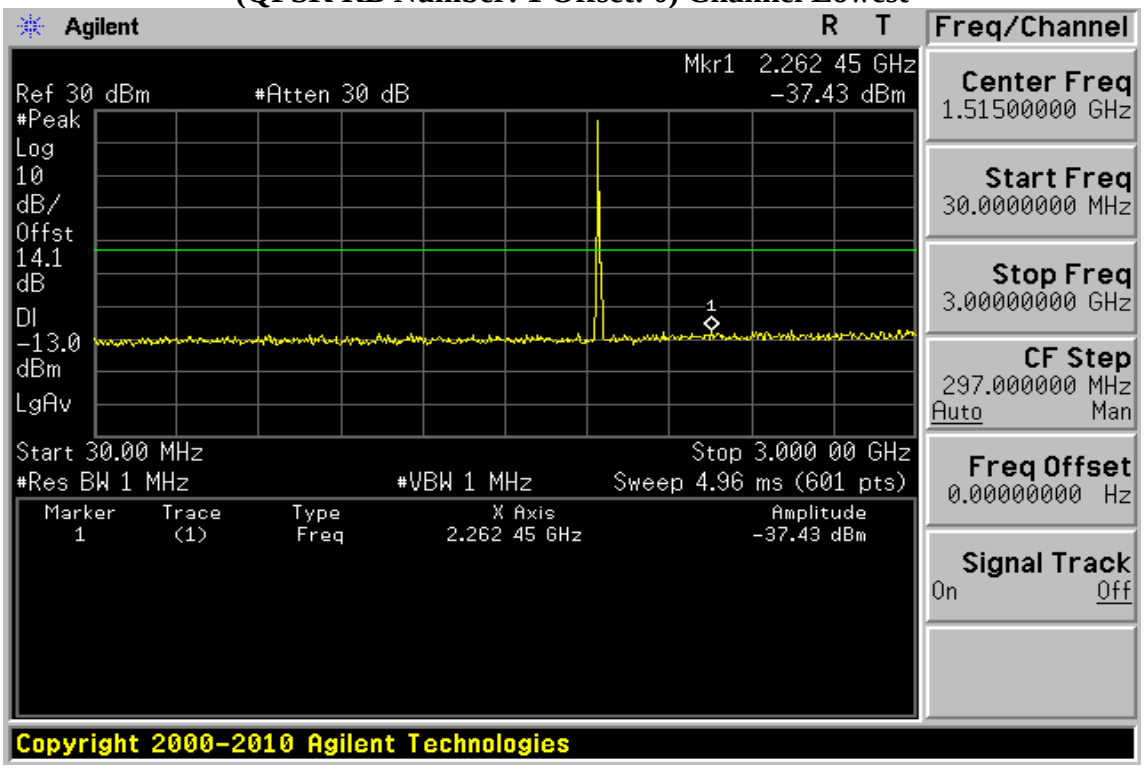
(QPSK RB Number: 15 Offset: 0) (QPSK RB Number: 25 Offset: 0)

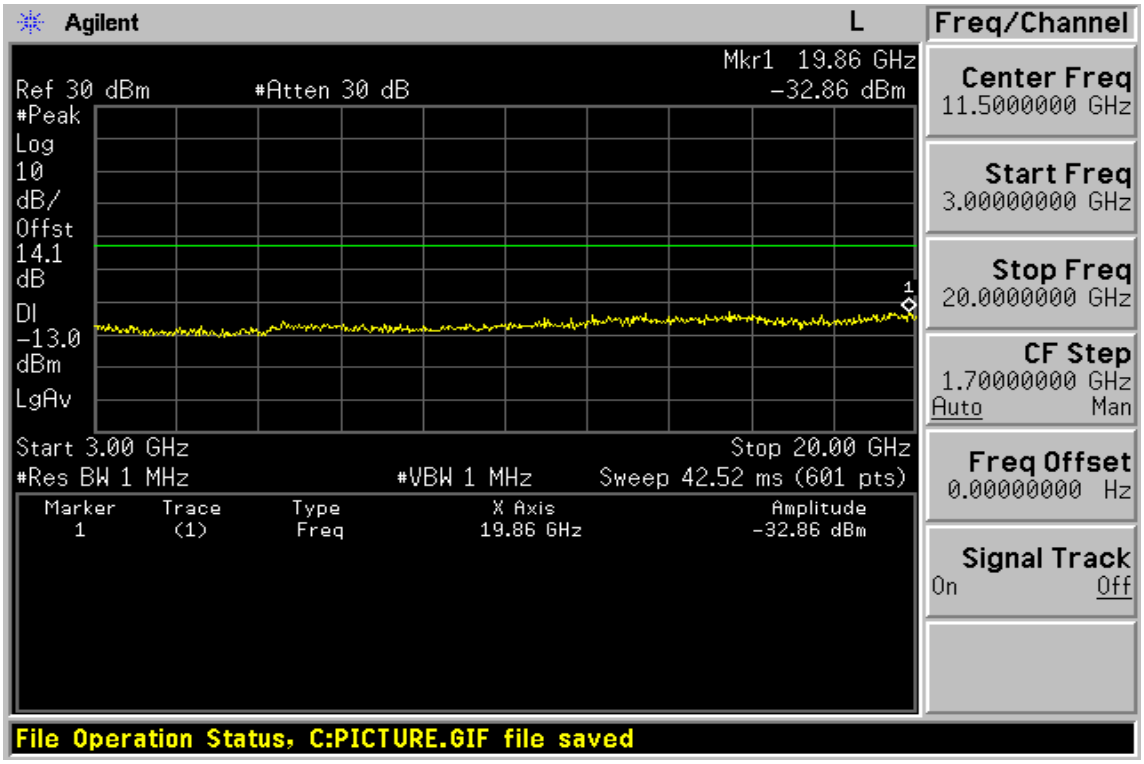
Test Mode 3MHz BW LTE-Band 2 Engineer :Nick

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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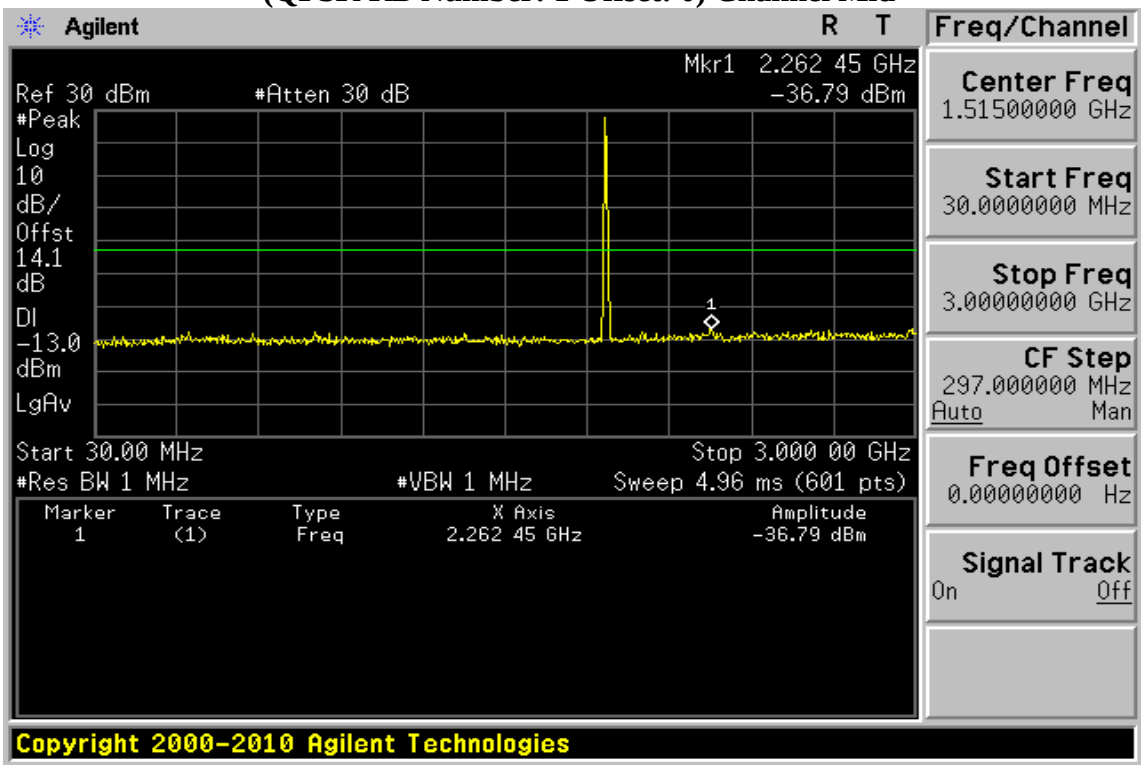
Figure 9-90: Out of Band emission at antenna terminals–5MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Lowest

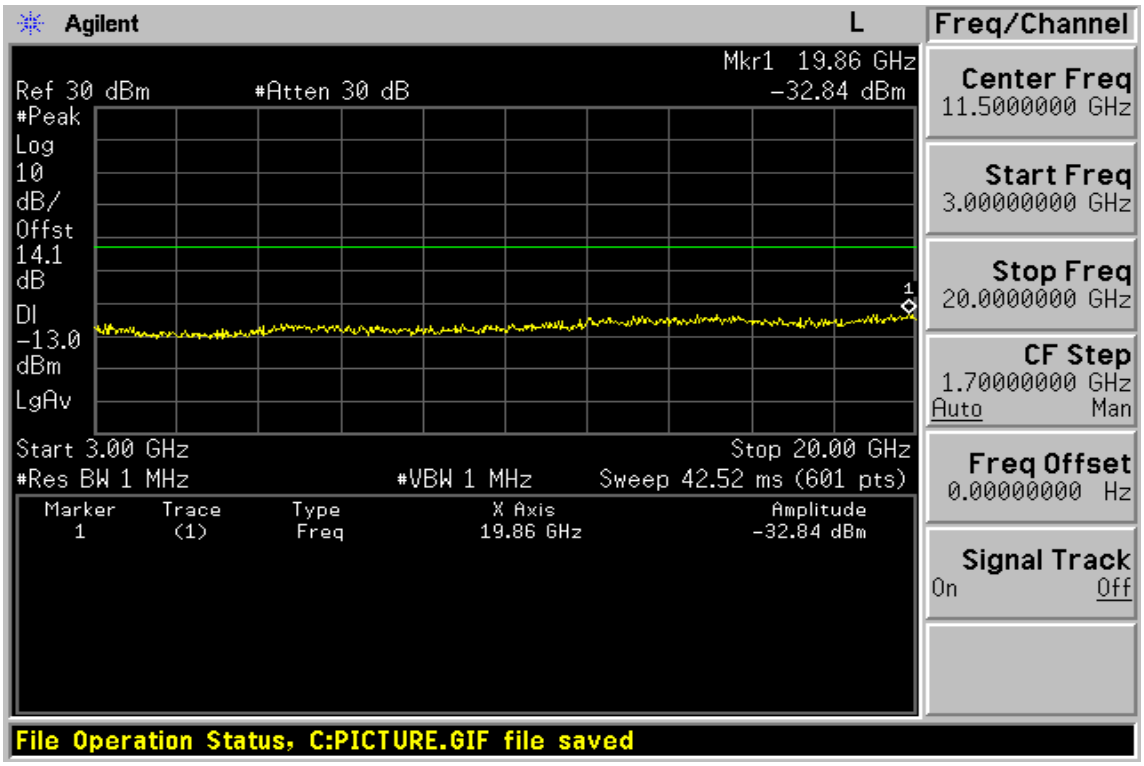




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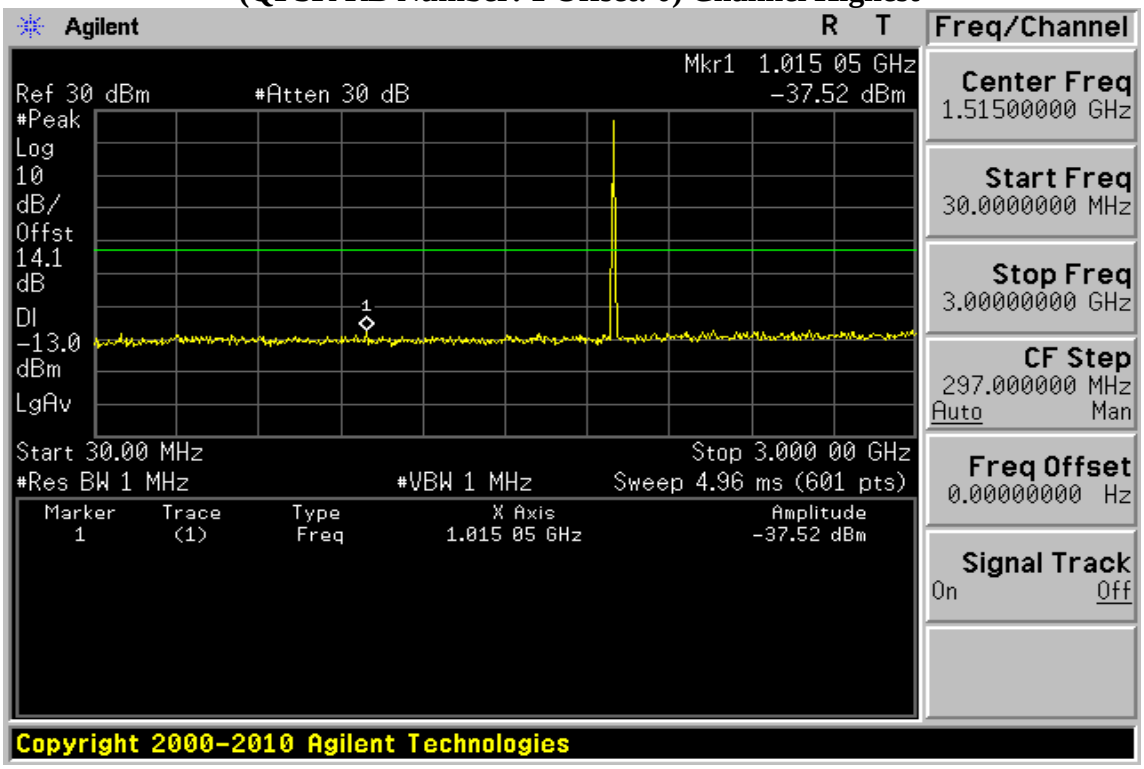
Figure 9-91: Out of Band emission at antenna terminals –5MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Mid

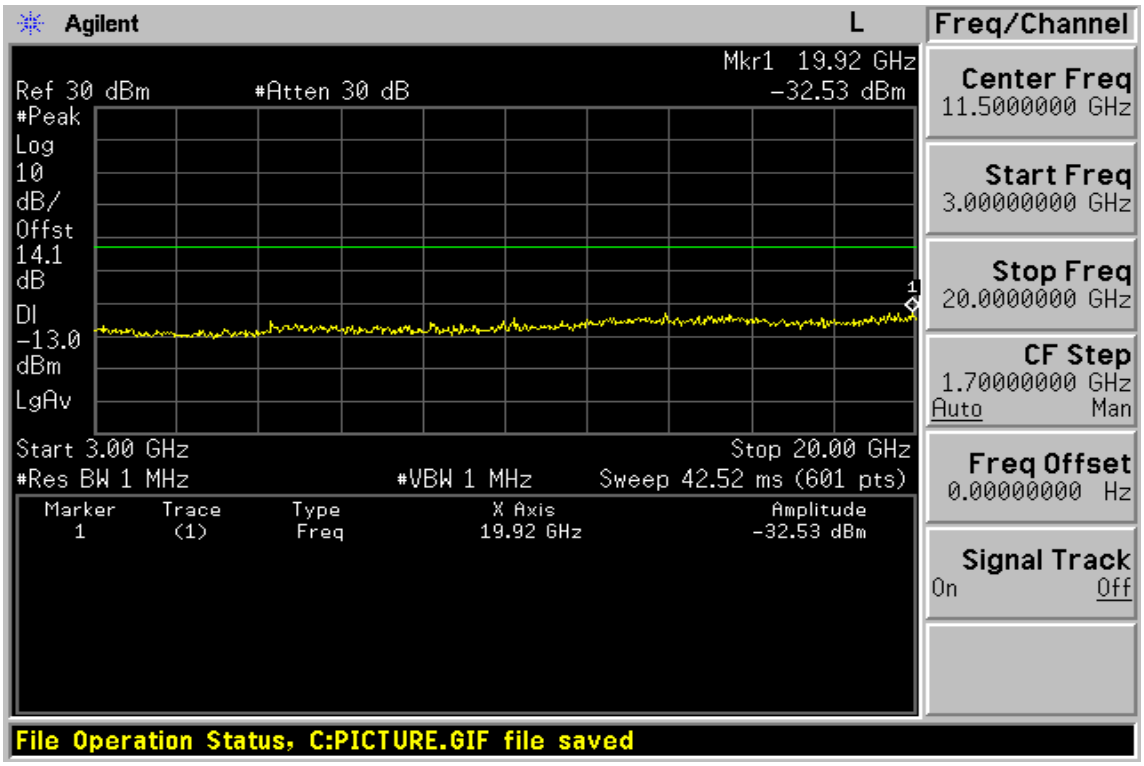




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Figure 9-92: Out of Band emission at antenna terminals–5MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Highest





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

(QPSK RB Number: 1 Offset: 0)

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	H	---	-13.00	---
5557.50	H	---	-13.00	---
7410.00	H	---	-13.00	---
9262.50	H	---	-13.00	---
11115.00	H	---	-13.00	---
12967.50	H	---	-13.00	---
14820.00	H	---	-13.00	---
16672.50	H	---	-13.00	---
18525.00	H	---	-13.00	---
19860.00	S	-32.86	-13.00	19.86

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

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Fundamental Frequency :1880.0 MHz Engineer :Nick
Operation Mode :TX Mid

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	H	---	-13.00	---
5640.00	H	---	-13.00	---
7520.00	H	---	-13.00	---
9400.00	H	---	-13.00	---
11280.00	H	---	-13.00	---
13160.00	H	---	-13.00	---
15040.00	H	---	-13.00	---
16920.00	H	---	-13.00	---
18800.00	H	---	-13.00	---
19860.00	S	-32.84	-13.00	19.84

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

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Fundamental Frequency :1907.5 MHz Engineer :Nick
Operation Mode :TX High

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3815.00	H	---	-13.00	---
5722.50	H	---	-13.00	---
7630.00	H	---	-13.00	---
9537.50	H	---	-13.00	---
11445.00	H	---	-13.00	---
13352.50	H	---	-13.00	---
15260.00	H	---	-13.00	---
17167.50	H	---	-13.00	---
19075.00	H	---	-13.00	---
19920.00	S	-32.53	-13.00	19.53

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
“” : denotes Spurious Freque

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Figure 9-93: Band edge emission at antenna terminals –5MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Lowest

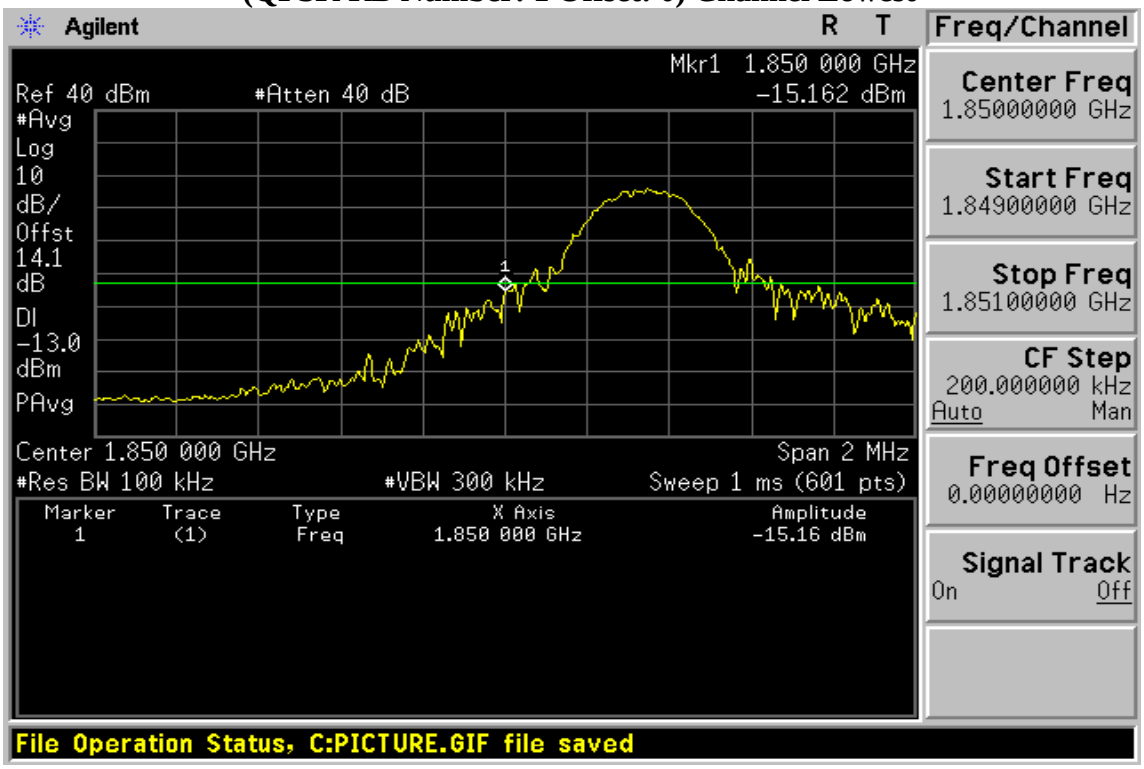
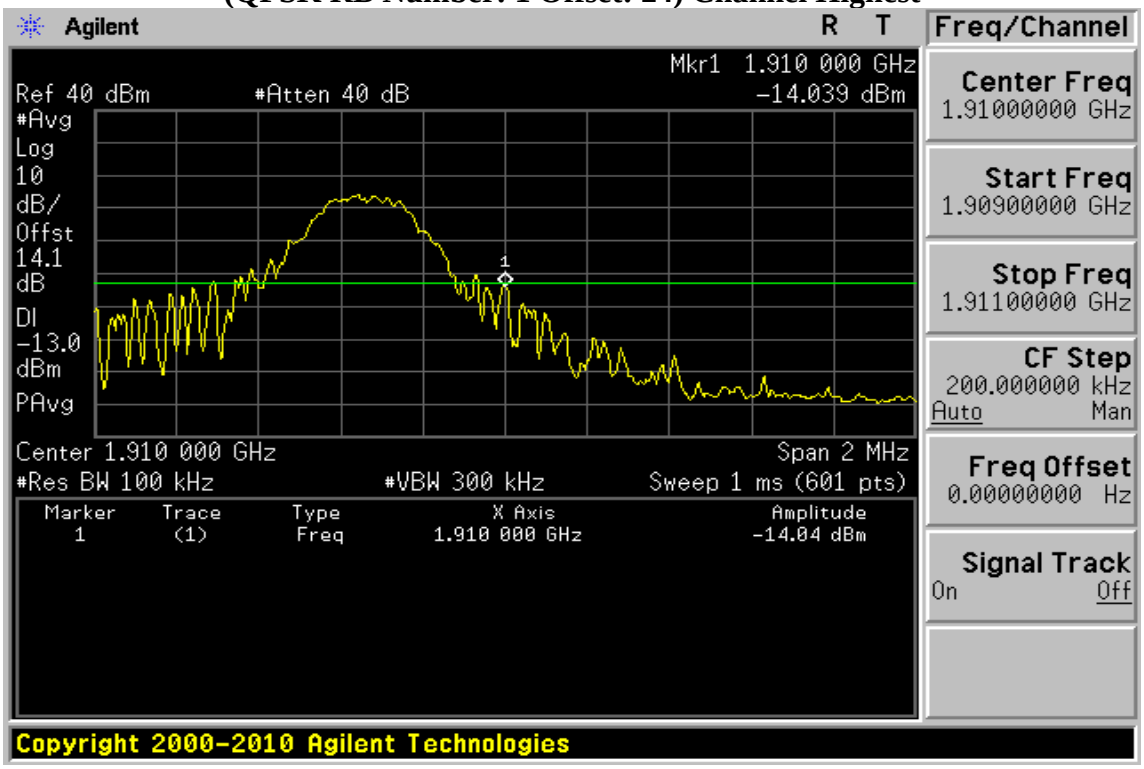


Figure 9-94: Band edge emission at antenna terminals –5MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 24) Channel Highest



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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 :Nick

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 9-95: Band edge emission at antenna terminals –5MHz BW LTE-Band 2 (QPSK RB Number: 25 Offset: 0) Channel Lowest

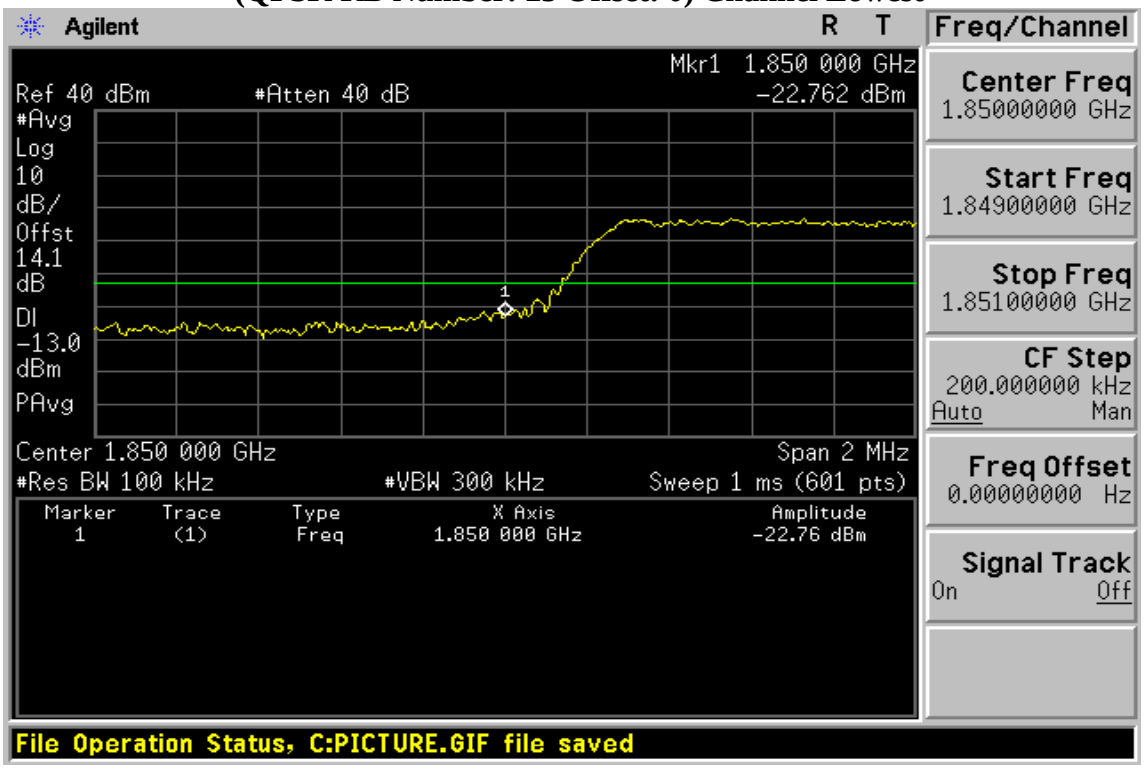
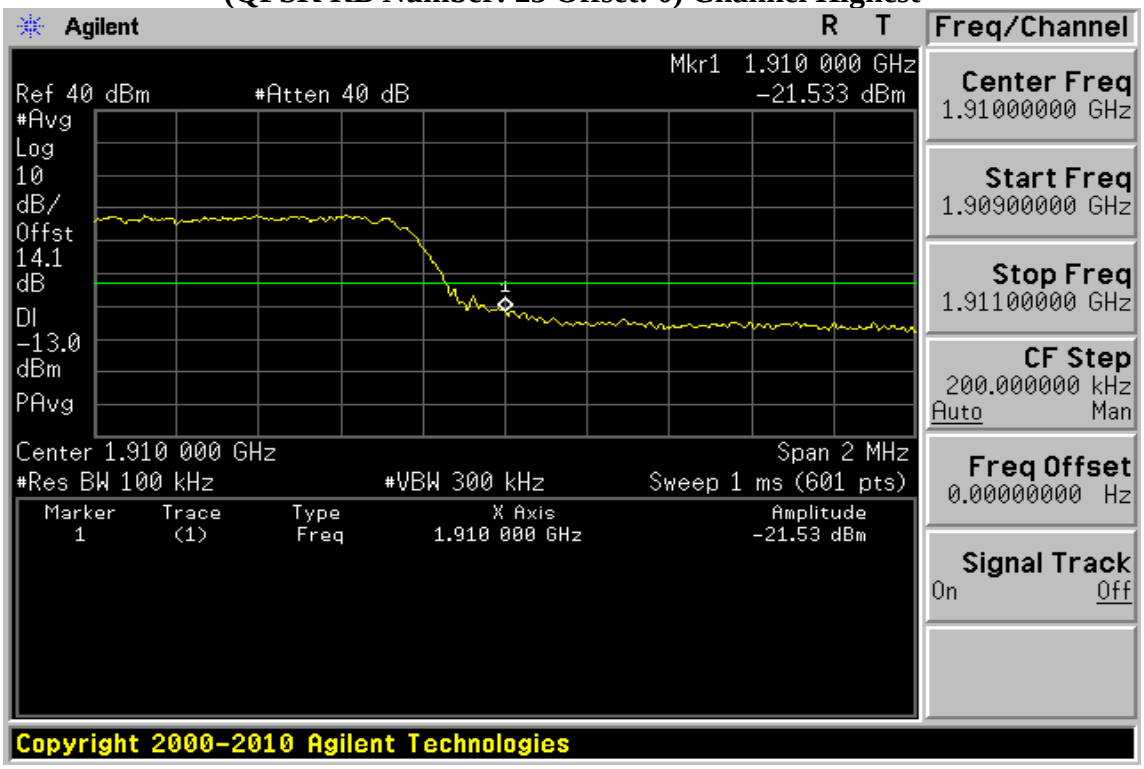


Figure 9-96: Band edge emission at antenna terminals –5MHz BW LTE-Band 2 (QPSK RB Number: 25 Offset: 0) Channel Highest



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

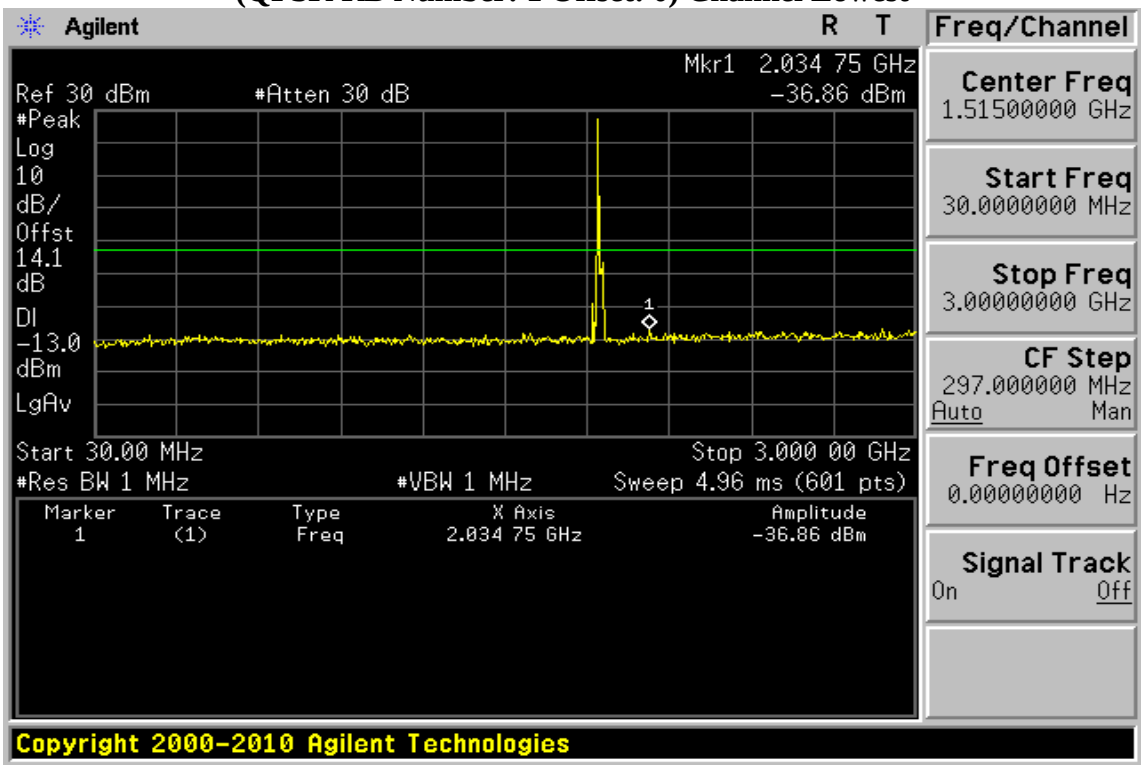
(QPSK RB Number: 25 Offset: 0)

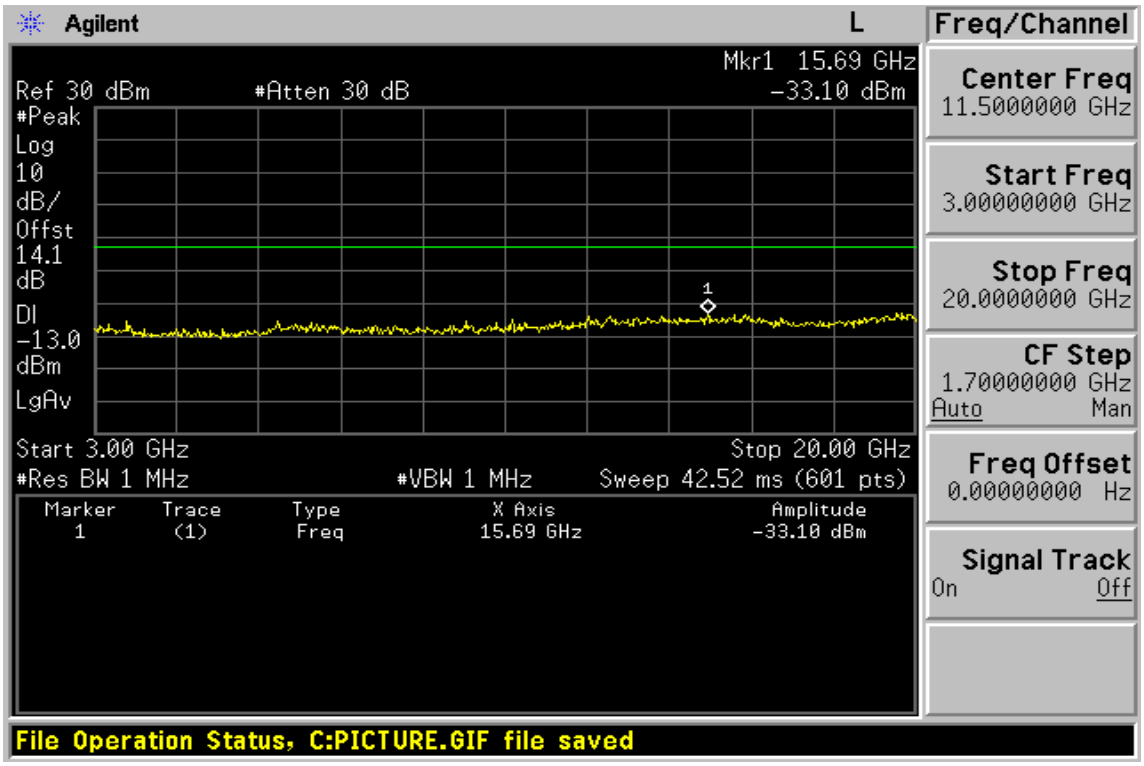
Test Mode 5MHz BW LTE-Band 2 Engineer :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1850.000	-22.76	-13.00	9.76
1910.000	-21.53	-13.00	8.53

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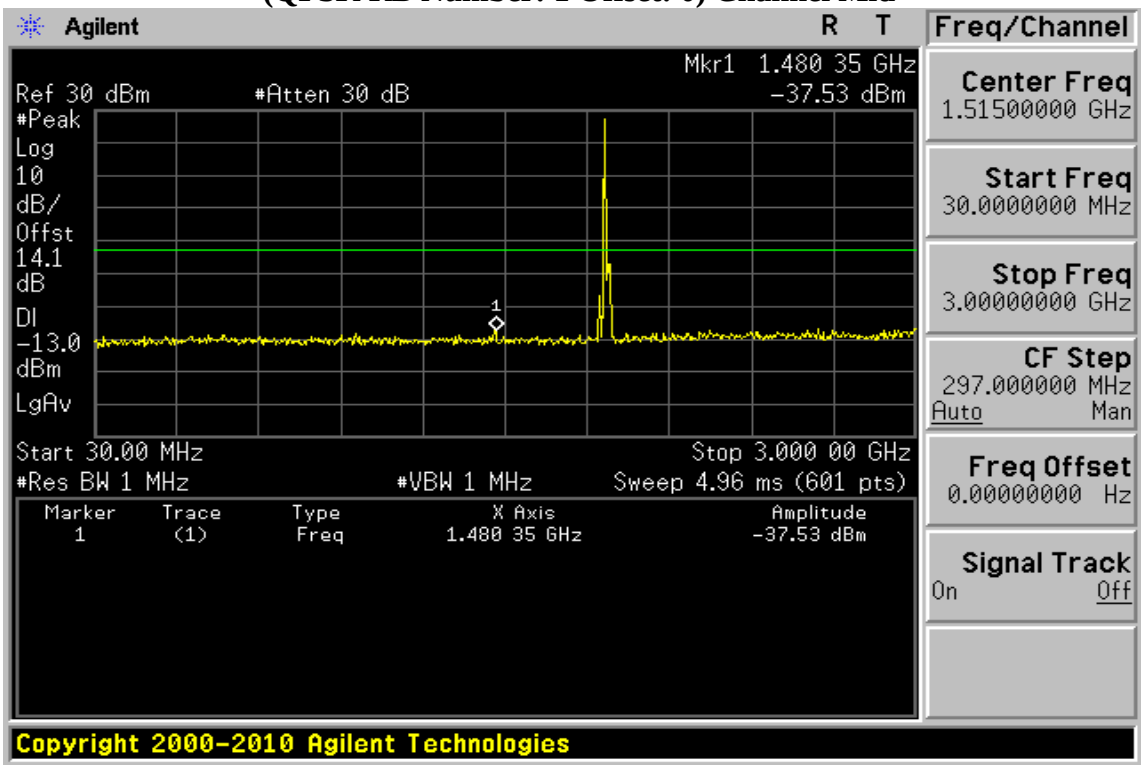
Figure 9-97: Out of Band emission at antenna terminals–10MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Lowest

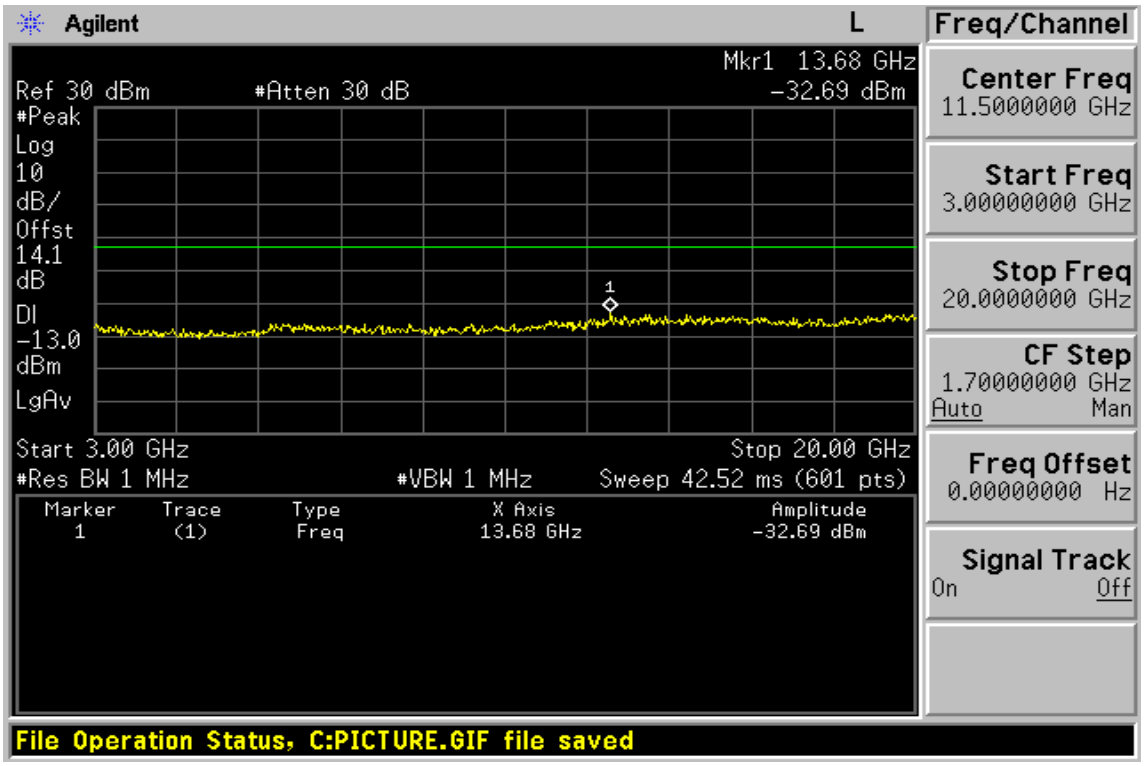




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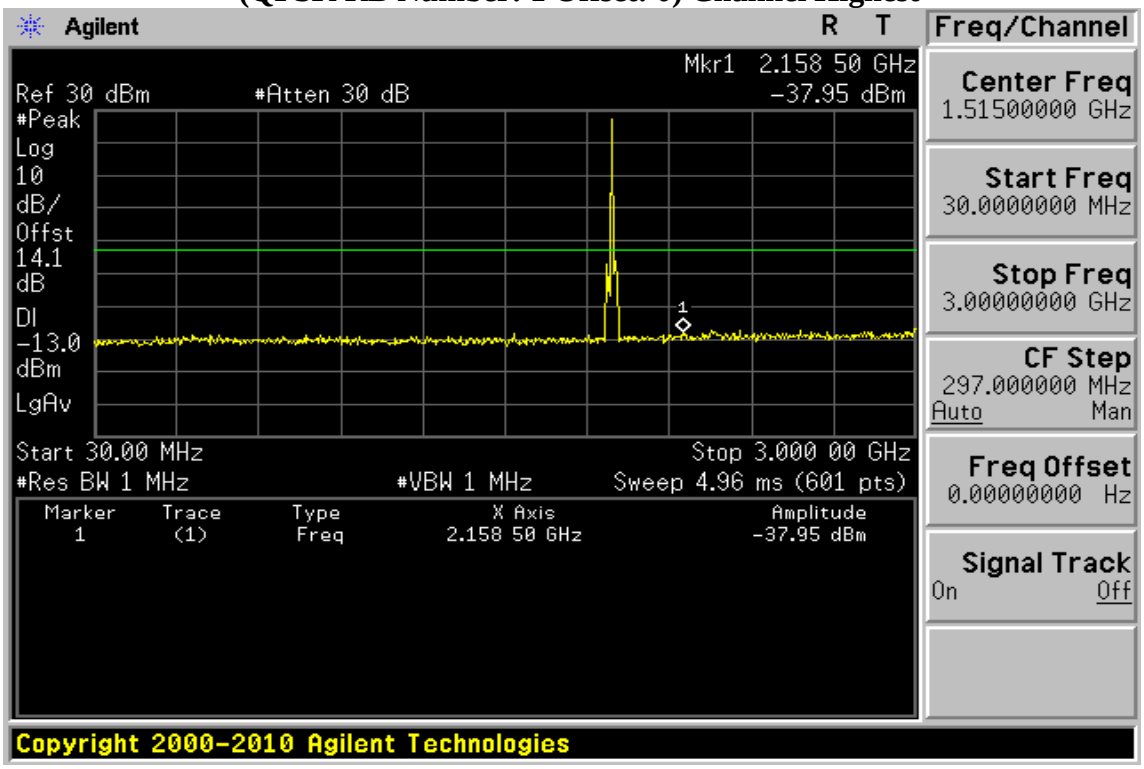
Figure 9-98: Out of Band emission at antenna terminals –10MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Mid

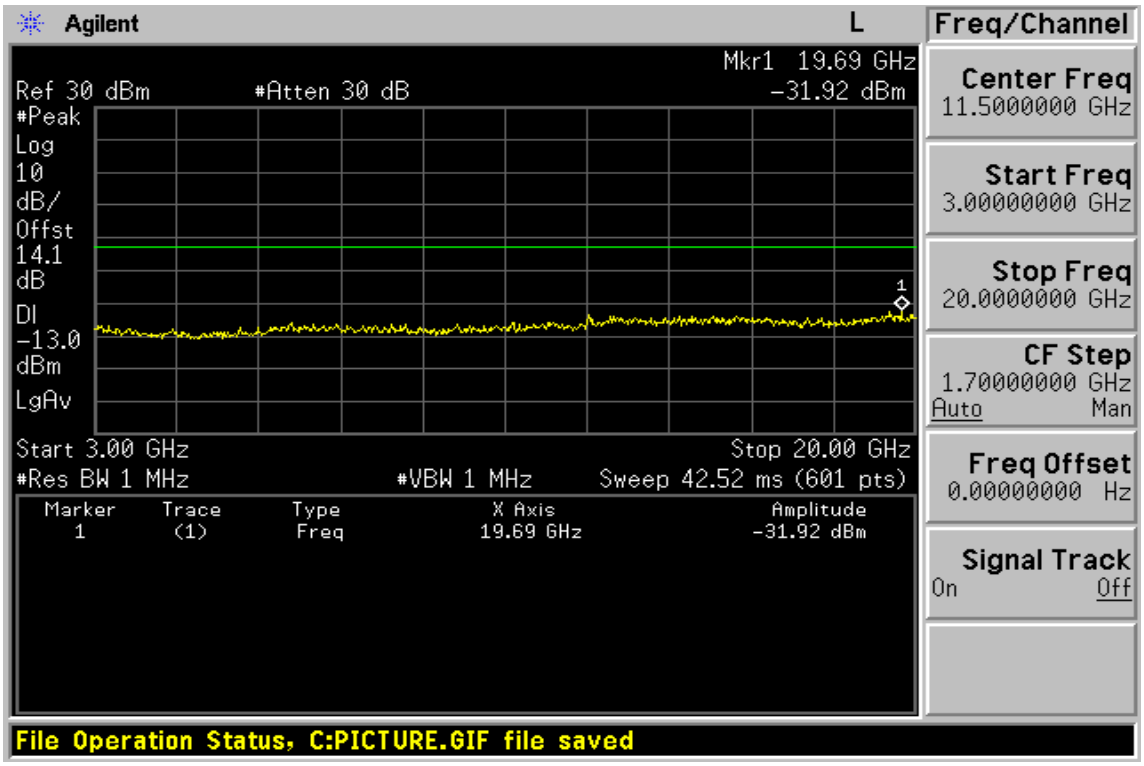




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Figure 9-99: Out of Band emission at antenna terminals–10MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Highest





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

(QPSK RB Number: 1 Offset: 0)

Fundamental Frequency :1855.0 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	---
3710.00	H	---	-13.00	---
5565.00	H	---	-13.00	---
7420.00	H	---	-13.00	---
9275.00	H	---	-13.00	---
11130.00	H	---	-13.00	---
12985.00	H	---	-13.00	---
14840.00	H	---	-13.00	---
15690.00	S	-33.10	-13.00	20.10
16695.00	H	---	-13.00	---
18550.00	H	---	-13.00	---

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

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Fundamental Frequency :1880.0 MHz Engineer :Nick
Operation Mode :TX Mid

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	H	---	-13.00	---
5640.00	H	---	-13.00	---
7520.00	H	---	-13.00	---
9400.00	H	---	-13.00	---
11280.00	H	---	-13.00	---
13160.00	H	---	-13.00	---
13680.00	S	-32.69	-13.00	19.69
15040.00	H	---	-13.00	---
16920.00	H	---	-13.00	---
18800.00	H	---	-13.00	---

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

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Fundamental Frequency :1905.0 MHz Engineer :Nick
Operation Mode :TX High

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	H	---	-13.00	---
5715.00	H	---	-13.00	---
7620.00	H	---	-13.00	---
9525.00	H	---	-13.00	---
11430.00	H	---	-13.00	---
13335.00	H	---	-13.00	---
15240.00	H	---	-13.00	---
17145.00	H	---	-13.00	---
19050.00	H	---	-13.00	---
19690.00	S	-31.92	-13.00	18.92

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

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Figure 9-100: Band edge emission at antenna terminals –10MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Lowest

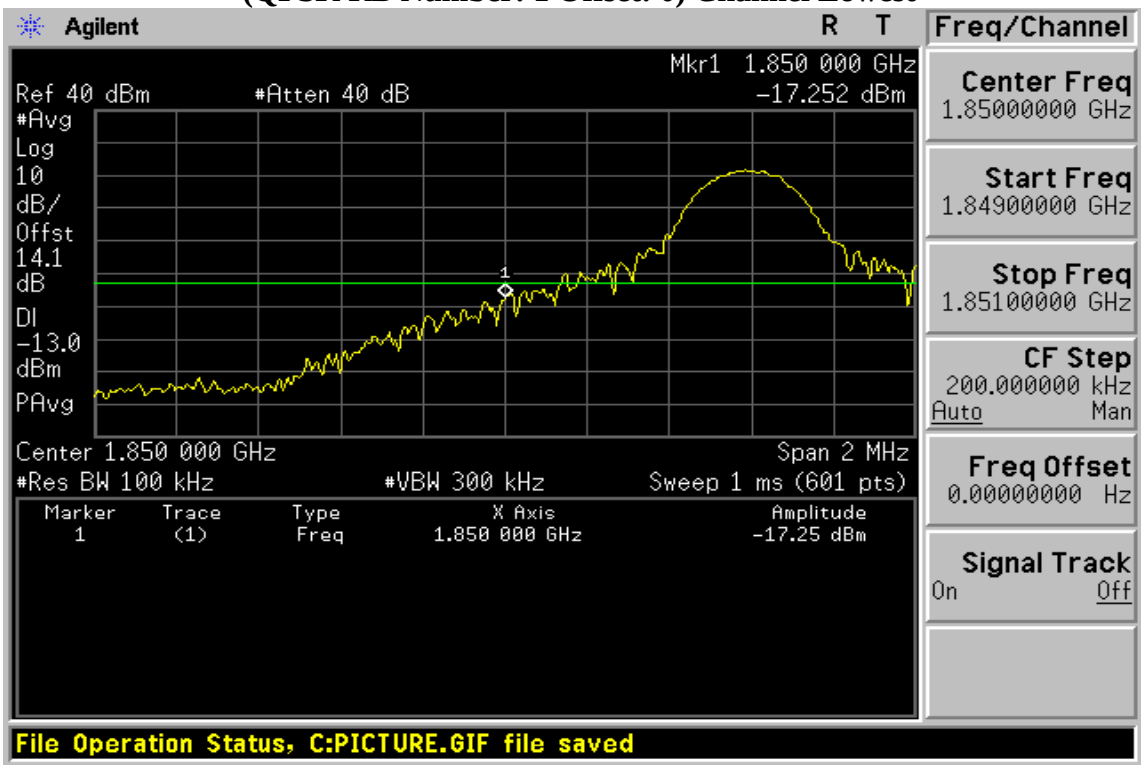
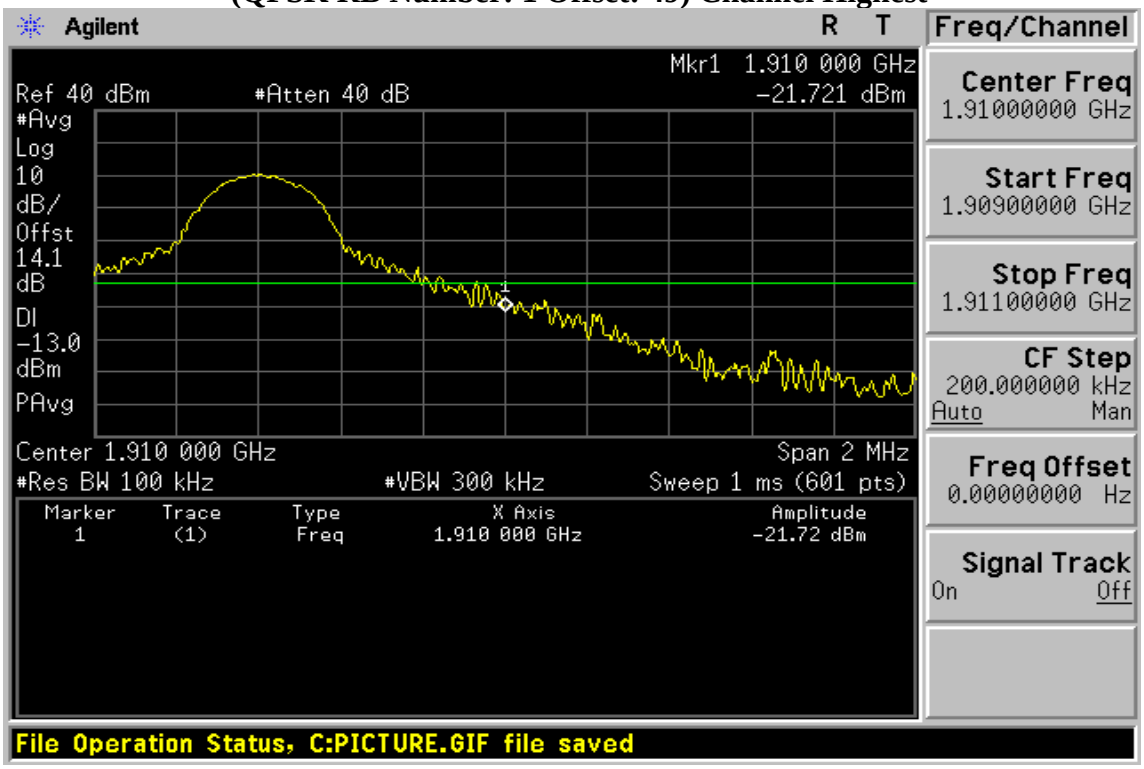


Figure 9-101: Band edge emission at antenna terminals –10MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 49) Channel Highest



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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

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1850.000	-17.25	-13.00	4.25
1910.000	-21.72	-13.00	8.72

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Figure 9-102 Band edge emission at antenna terminals –10MHz BW LTE-Band 2 (QPSK RB Number: 50 Offset: 0) Channel Lowest

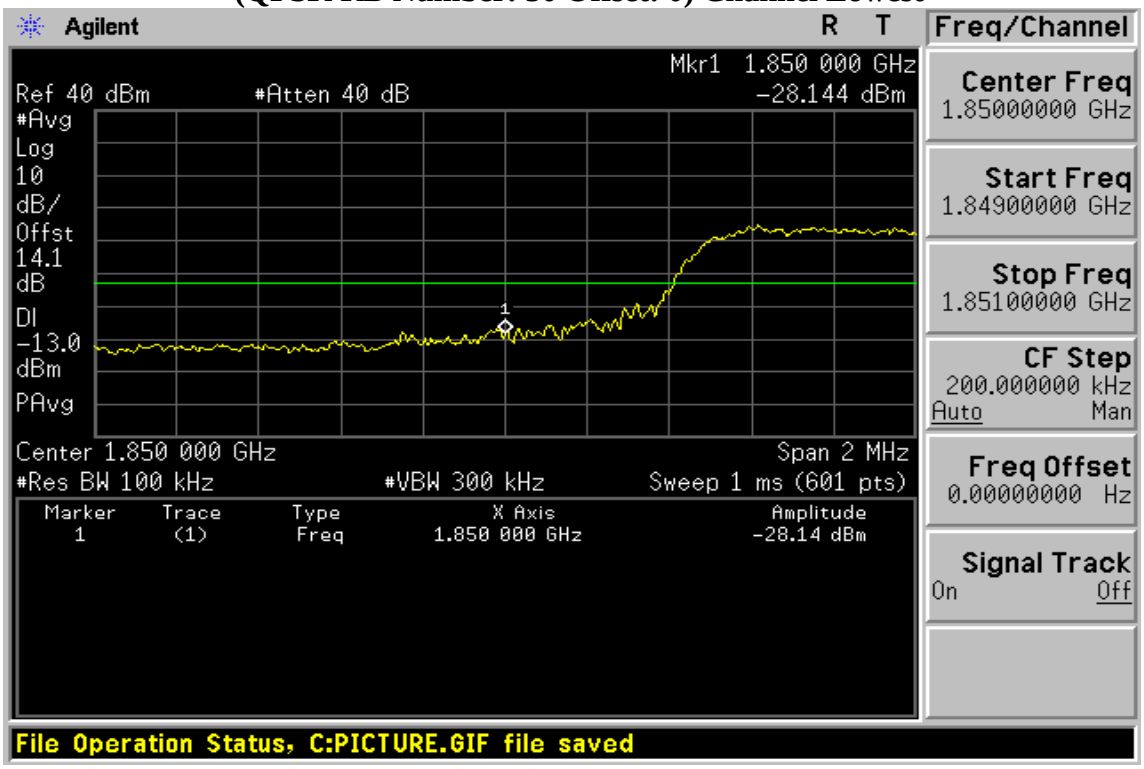
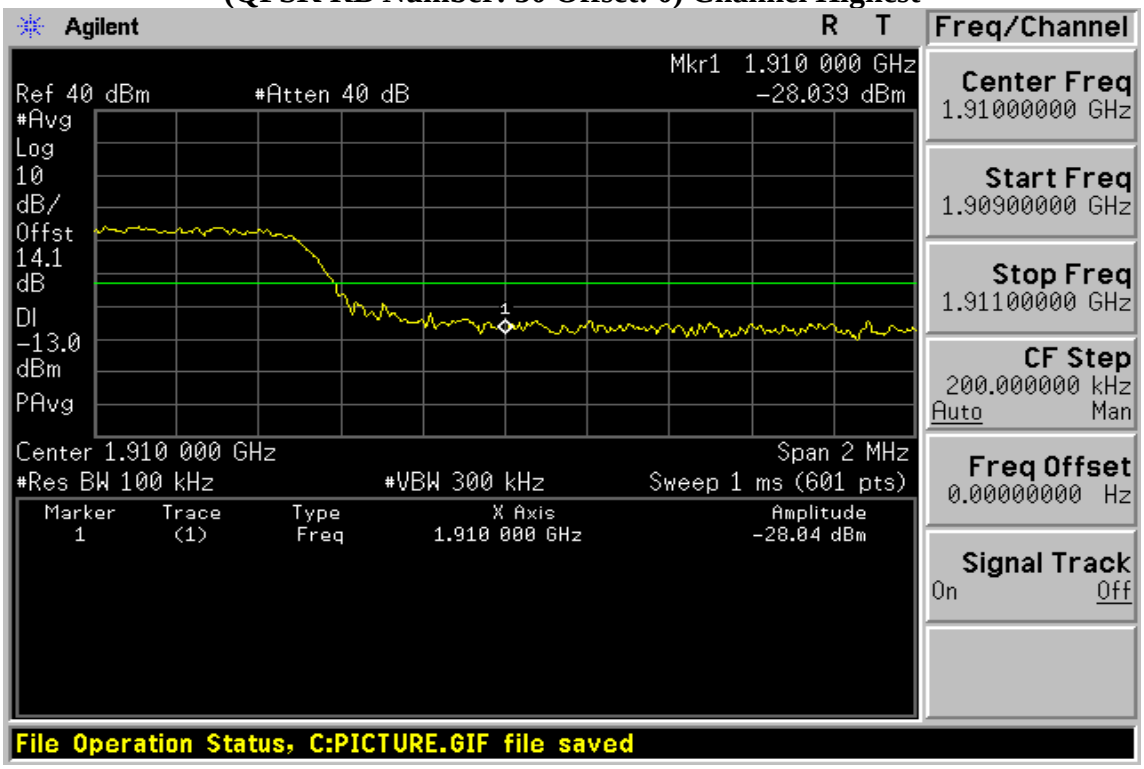


Figure 9-103: Band edge emission at antenna terminals –10MHz BW LTE-Band 2 (QPSK RB Number: 50 Offset: 0) Channel Highest



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

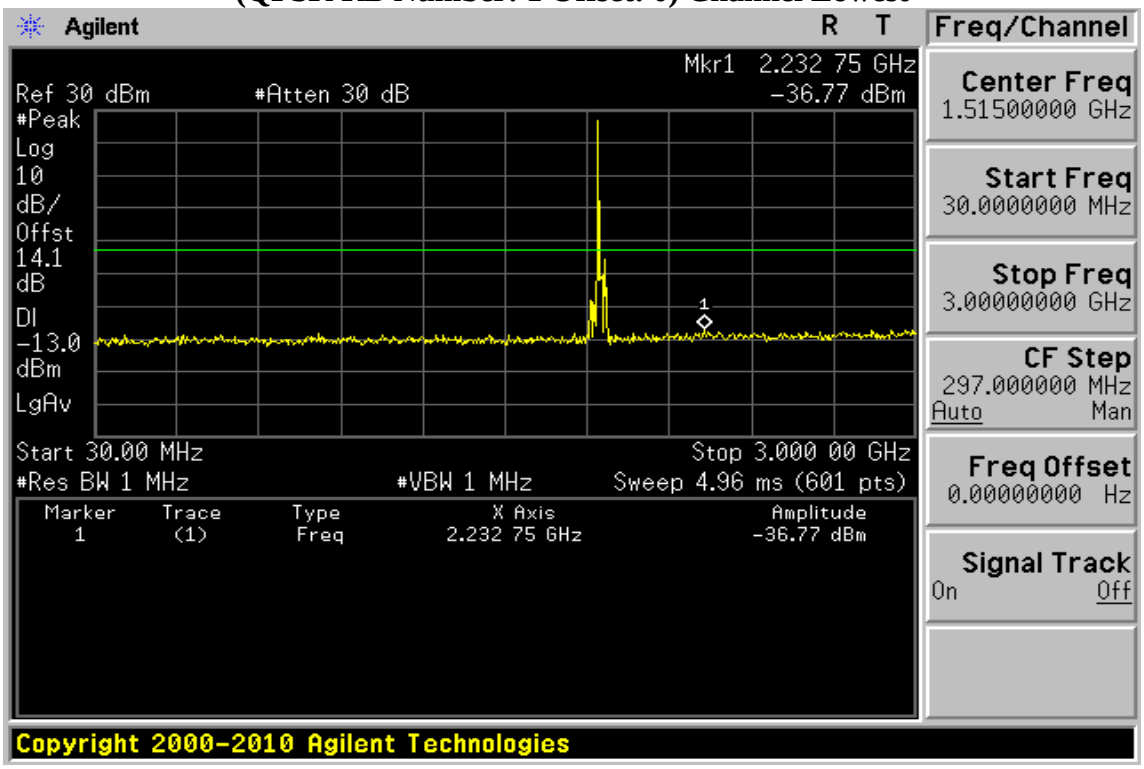
(QPSK RB Number: 50 Offset: 0)

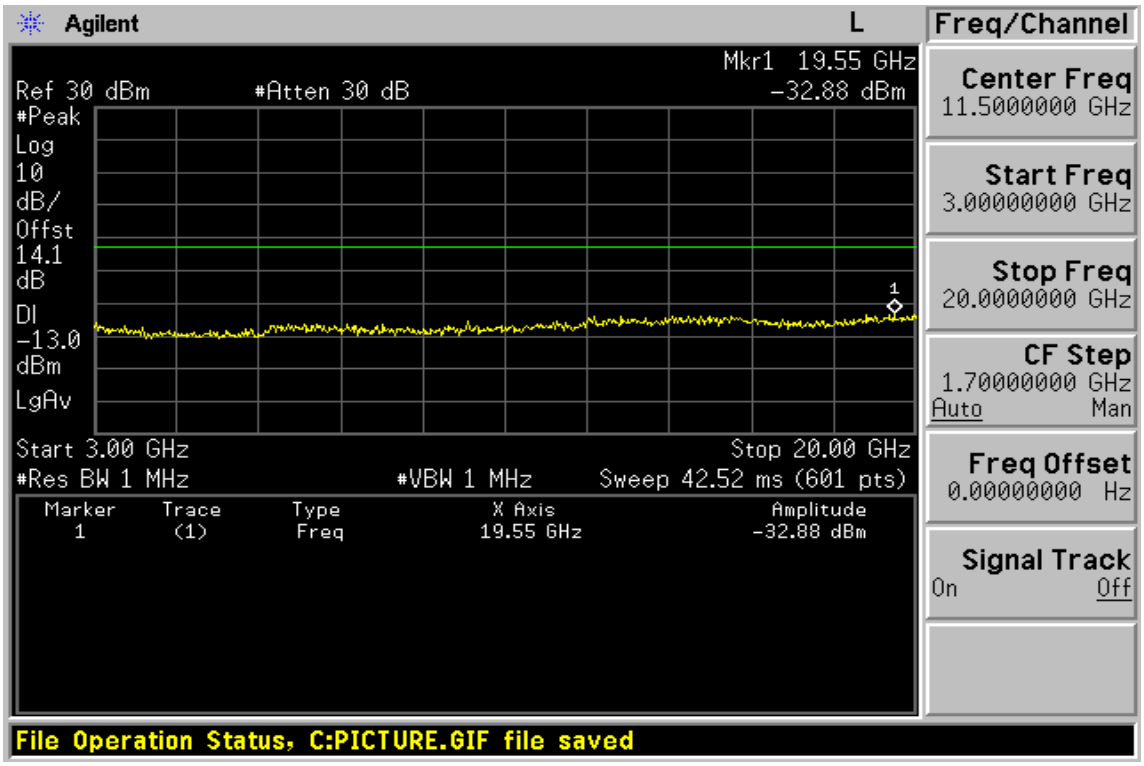
Test Mode 10MHz BW LTE-Band 2 Engineer :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1850.000	-28.14	-13.00	15.14
1910.000	-28.04	-13.00	15.04

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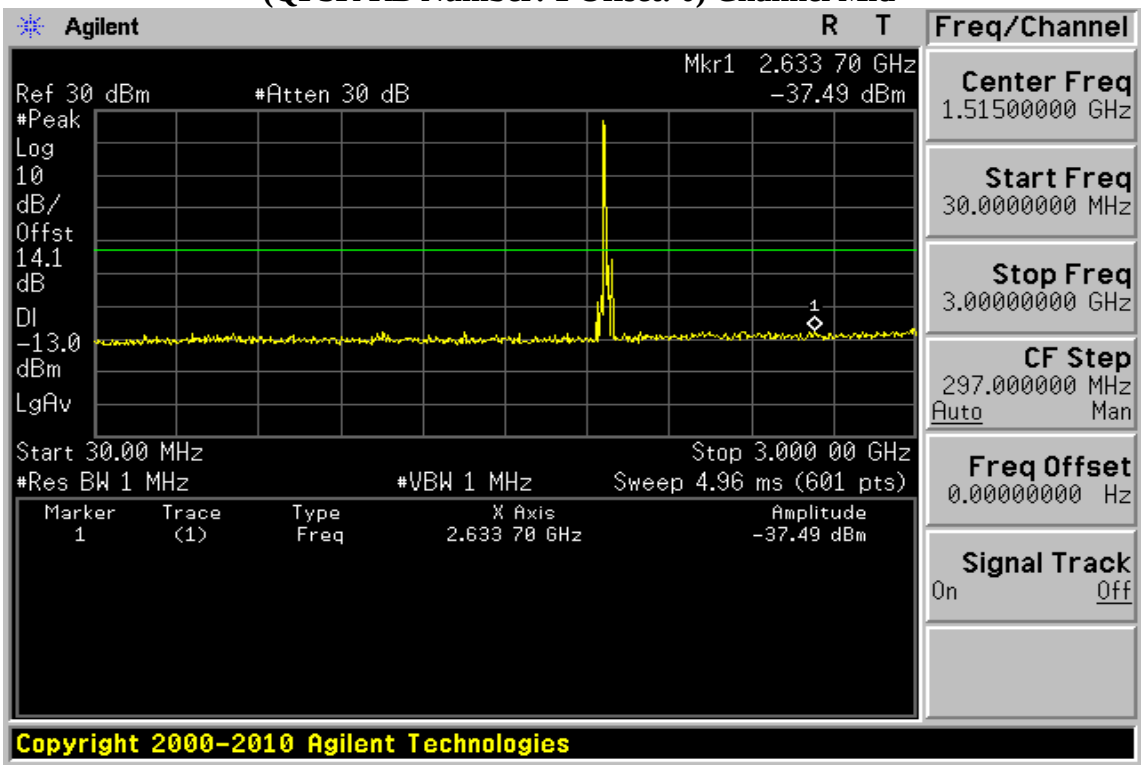
Figure 9-104: Out of Band emission at antenna terminals–15MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Lowest

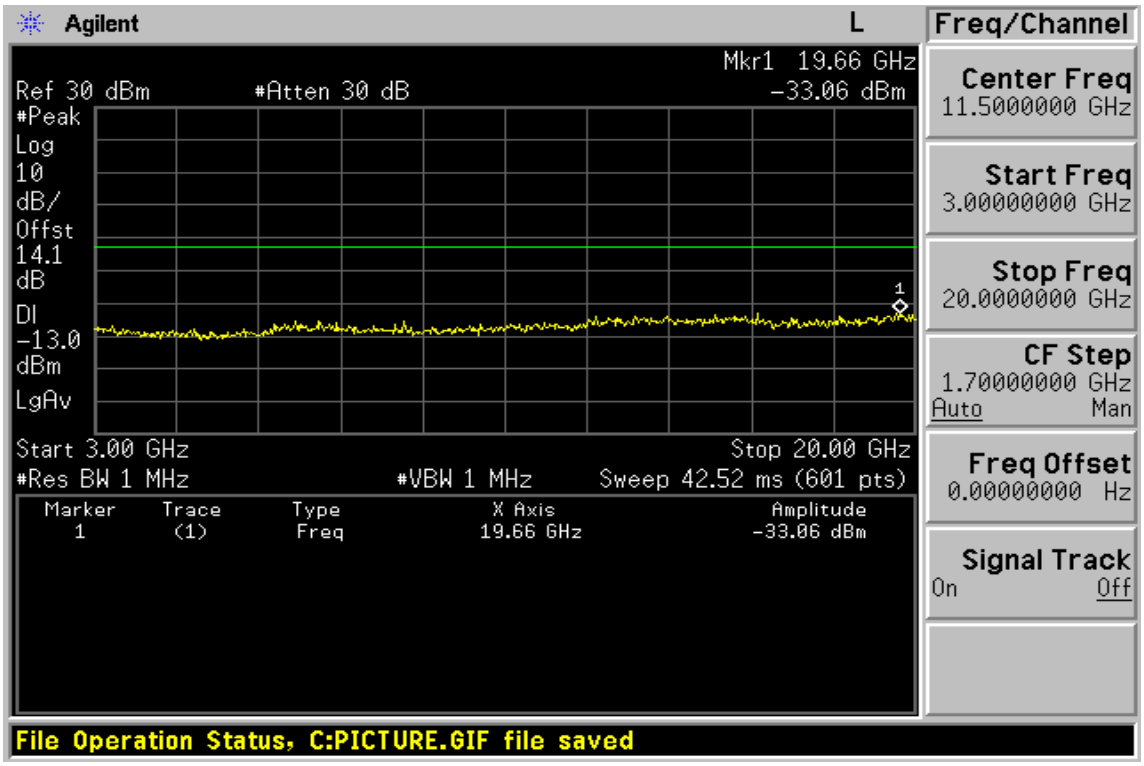




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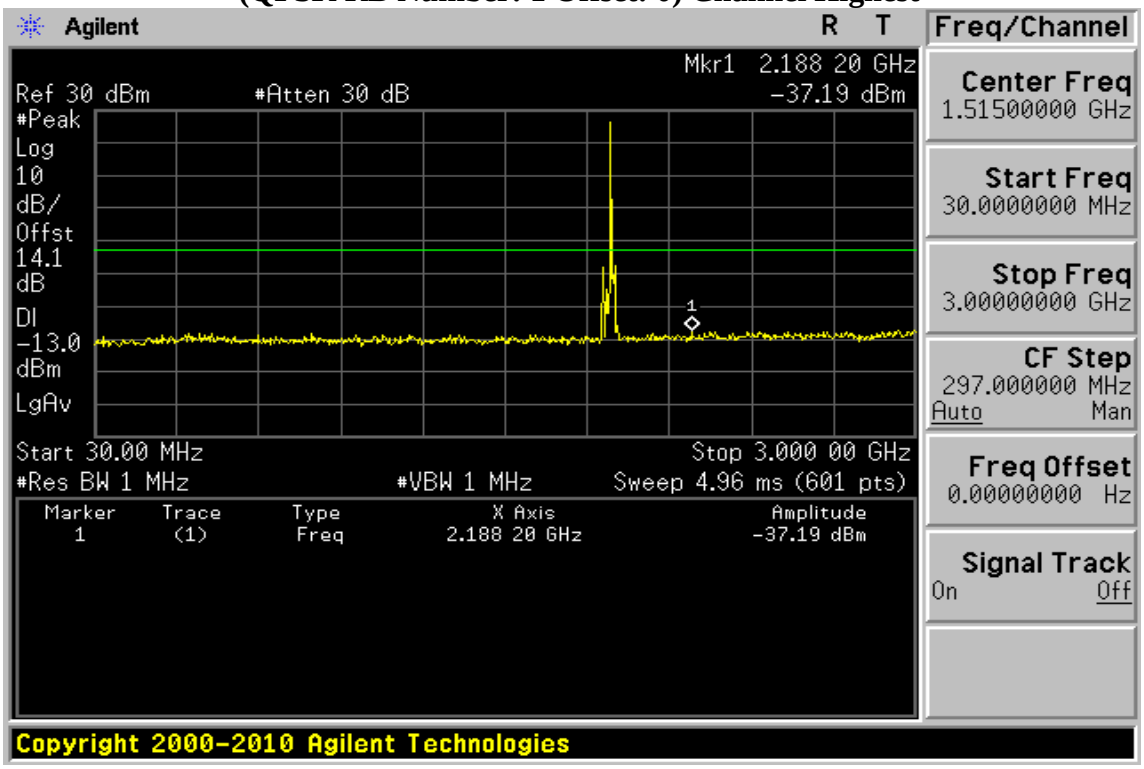
Figure 9-105: Out of Band emission at antenna terminals –15MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Mid

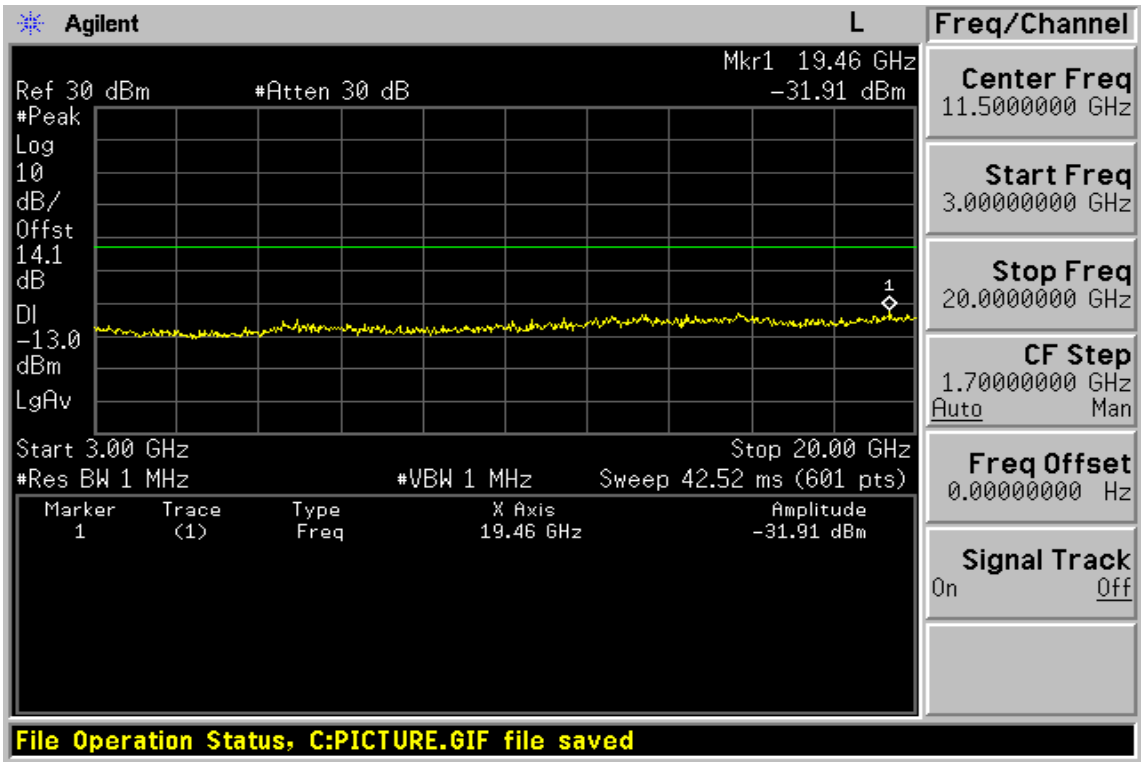




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Figure 9-106: Out of Band emission at antenna terminals–15MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Highest





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

(QPSK RB Number: 1 Offset: 0)

Fundamental Frequency :1857.5 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	---
3714.00	H	---	-13.00	---
5571.00	H	---	-13.00	---
7428.00	H	---	-13.00	---
9285.00	H	---	-13.00	---
11142.00	H	---	-13.00	---
12999.00	H	---	-13.00	---
14856.00	H	---	-13.00	---
16713.00	H	---	-13.00	---
18570.00	H	---	-13.00	---
19550.00	S	-32.88	-13.00	19.88

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

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Fundamental Frequency :1880.0 MHz Engineer :Nick
Operation Mode :TX Mid

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	H	---	-13.00	---
5640.00	H	---	-13.00	---
7520.00	H	---	-13.00	---
9400.00	H	---	-13.00	---
11280.00	H	---	-13.00	---
13160.00	H	---	-13.00	---
15040.00	H	---	-13.00	---
16920.00	H	---	-13.00	---
18800.00	H	---	-13.00	---
19660.00	S	-33.06	-13.00	20.06

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

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Fundamental Frequency :1902.5 MHz Engineer :Nick
Operation Mode :TX High

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3805.00	H	---	-13.00	---
5707.50	H	---	-13.00	---
7610.00	H	---	-13.00	---
9512.50	H	---	-13.00	---
11415.00	H	---	-13.00	---
13317.50	H	---	-13.00	---
15220.00	H	---	-13.00	---
17122.50	H	---	-13.00	---
19025.00	H	---	-13.00	---
19460.00	S	-31.91	-13.00	18.91

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

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Figure 9-107: Band edge emission at antenna terminals –15MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Lowest

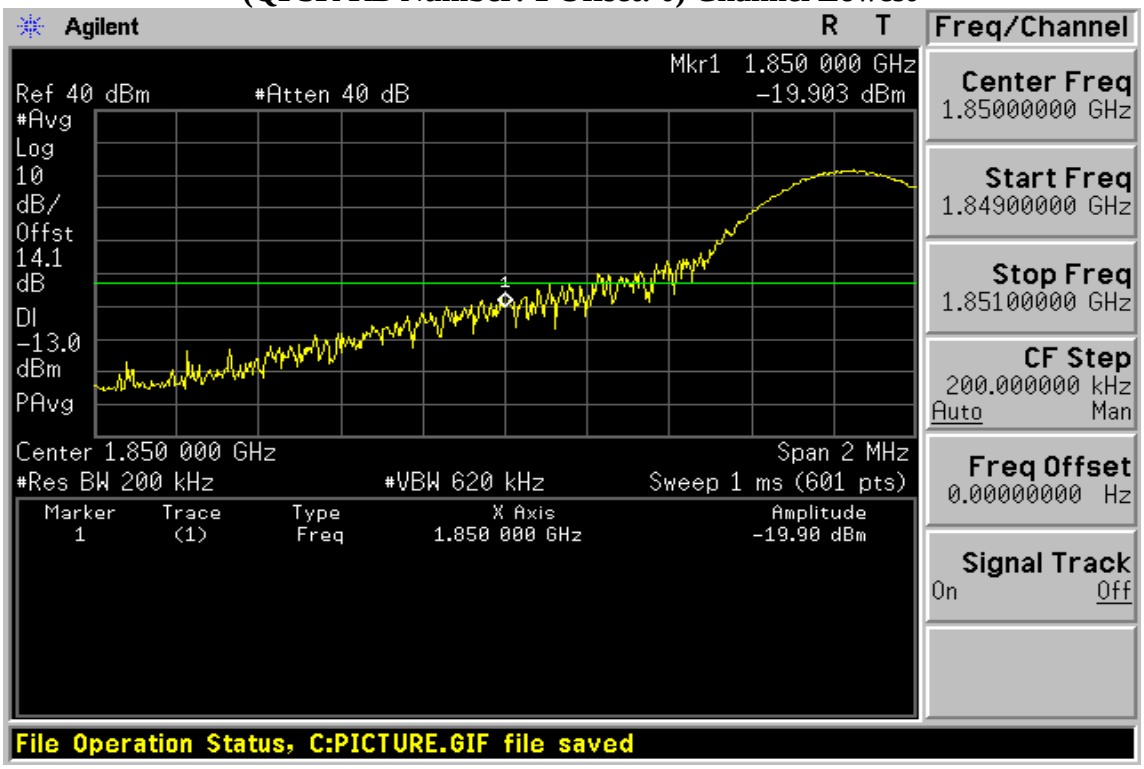
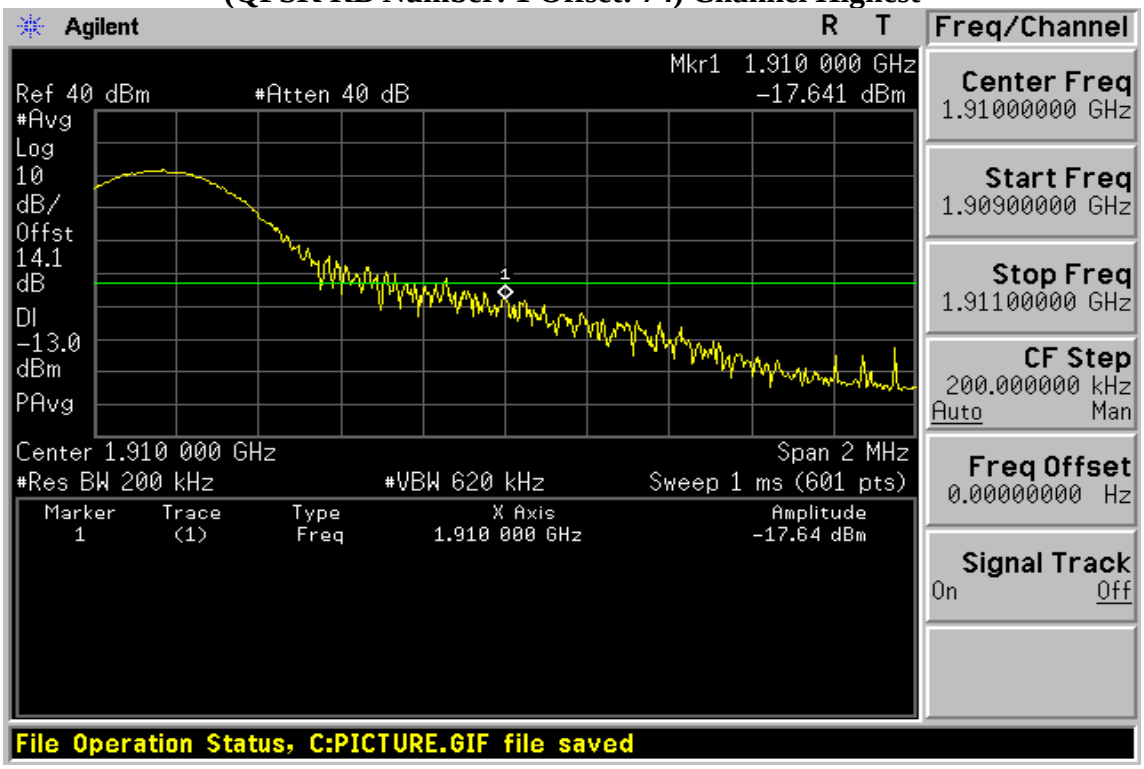


Figure 9-108: Band edge emission at antenna terminals –15MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 74) Channel Highest



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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 :Nick

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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Figure 9-109: Band edge emission at antenna terminals –15MHz BW LTE-Band 2 (QPSK RB Number: 75 Offset: 0) Channel Lowest

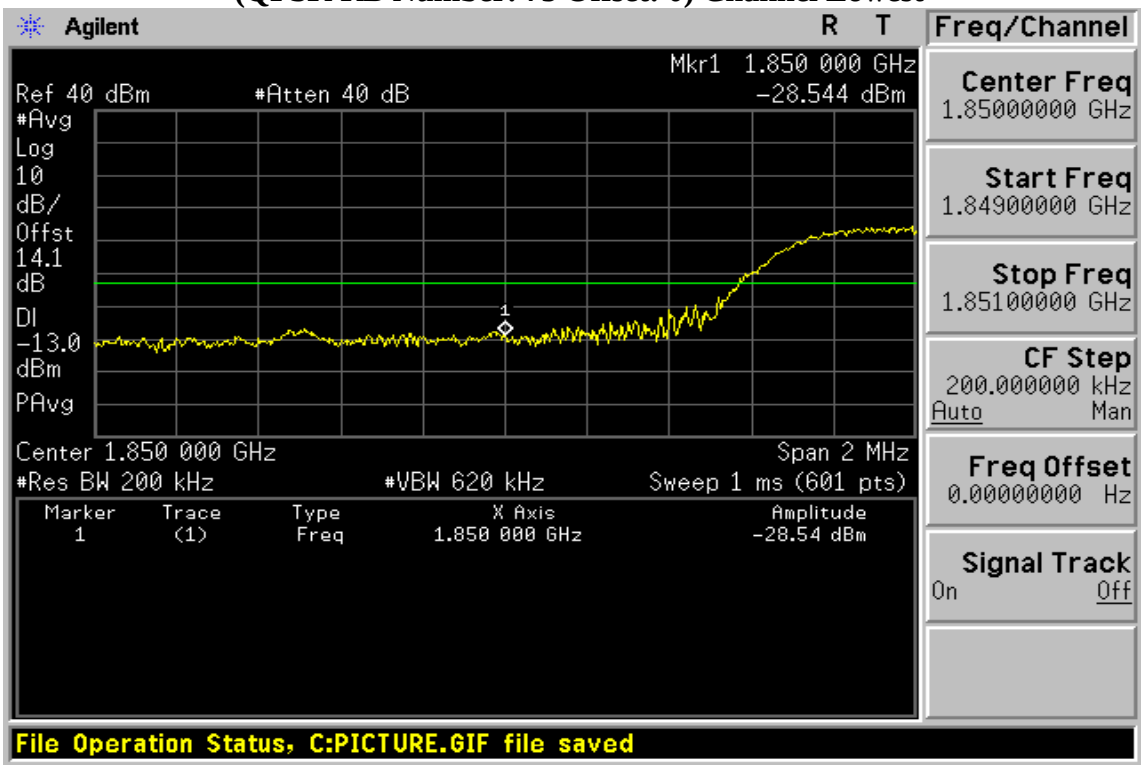
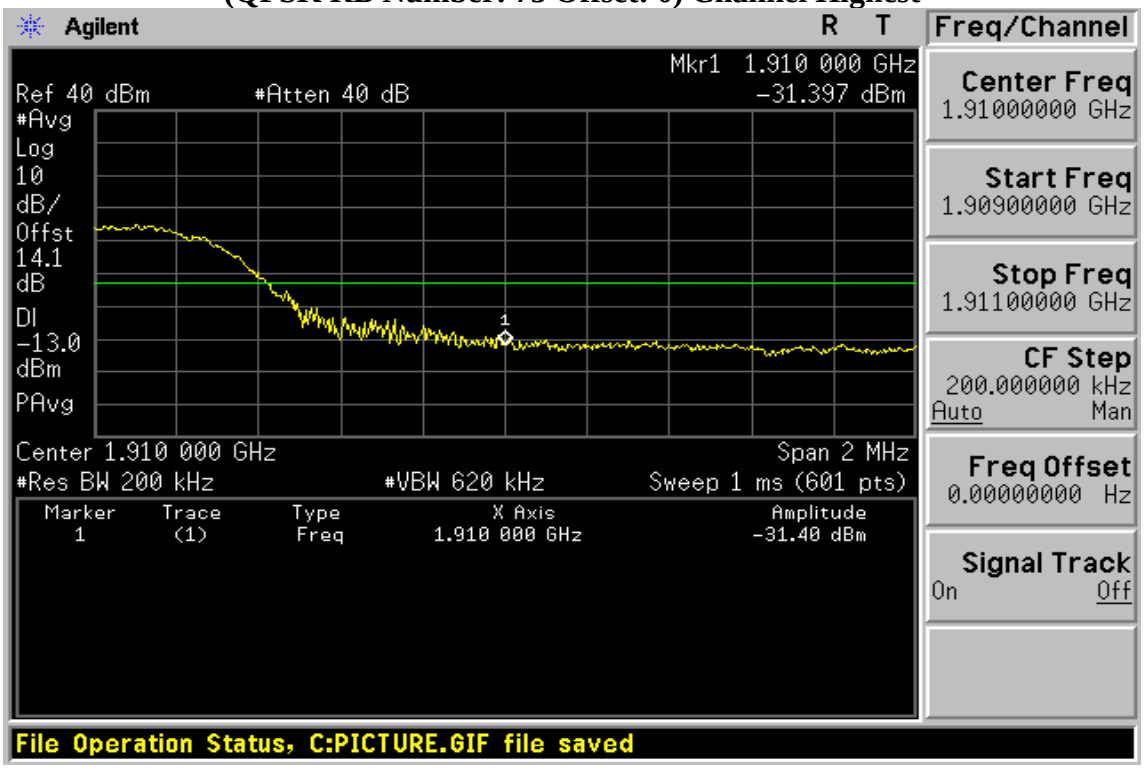


Figure 9-110: Band edge emission at antenna terminals –15MHz BW LTE-Band 2 (QPSK RB Number: 75 Offset: 0) Channel Highest



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

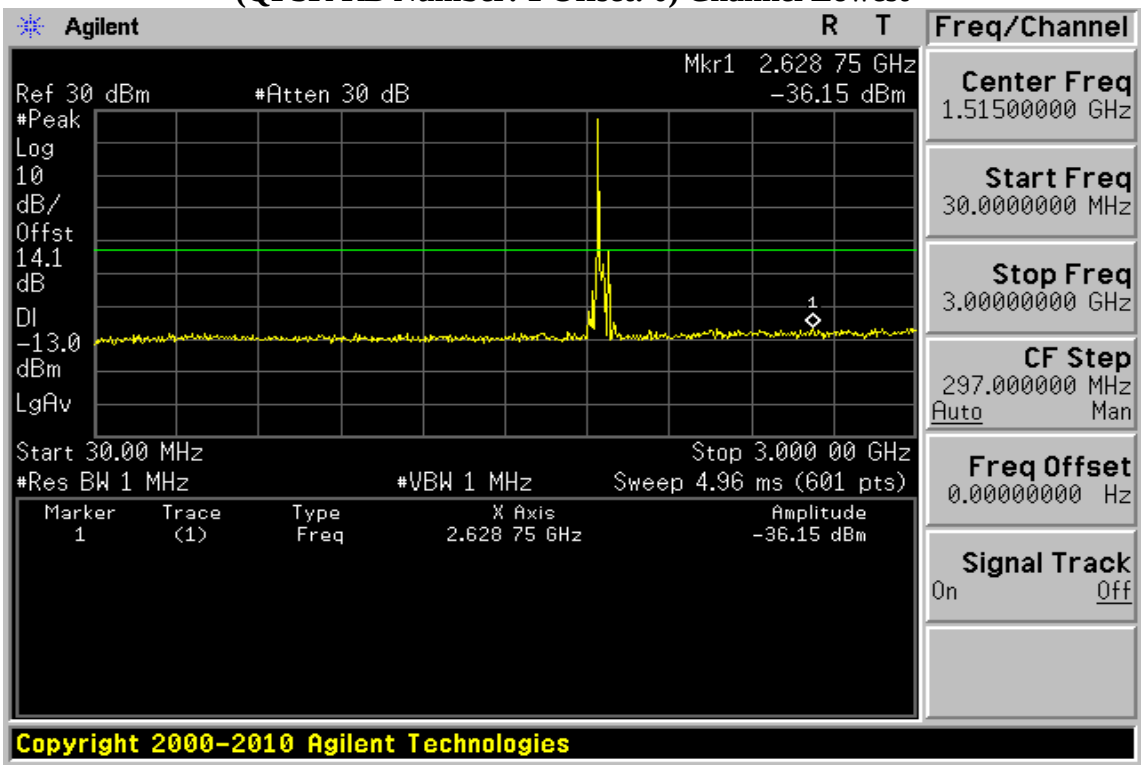
(QPSK RB Number: 75 Offset: 0)

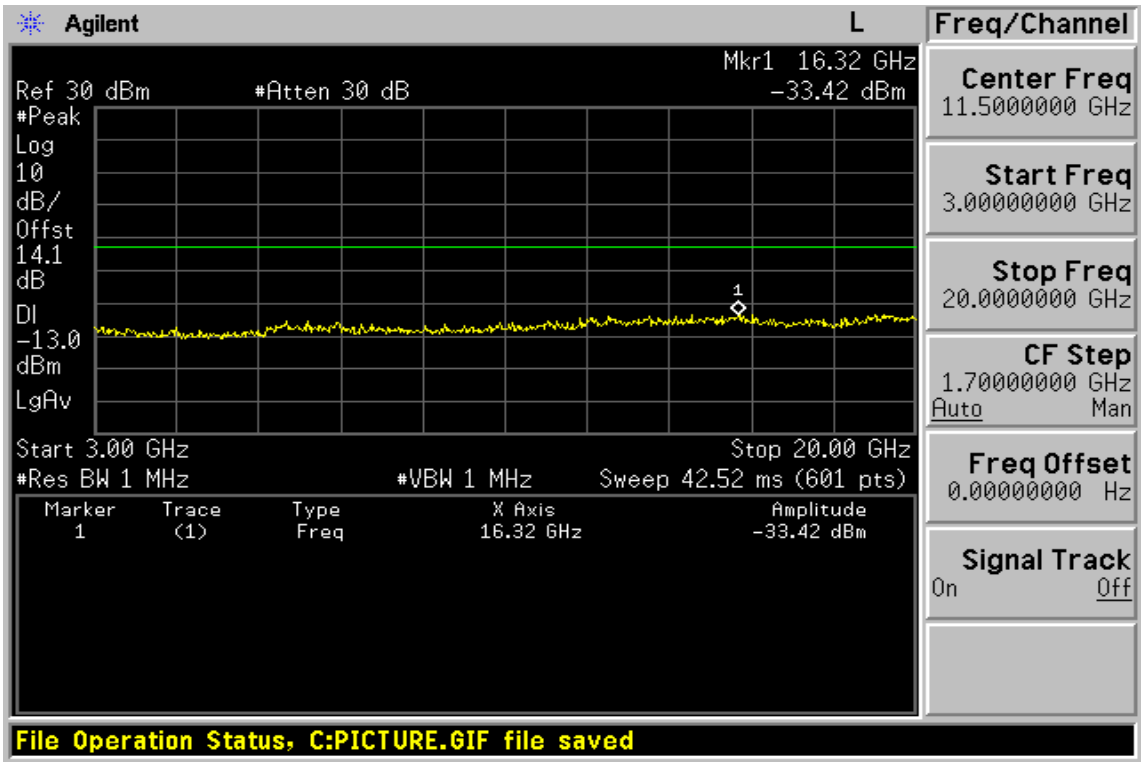
Test Mode 15MHz BW LTE-Band 2 Engineer :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1850.000	-28.54	-13.00	15.54
1910.000	-31.40	-13.00	18.40

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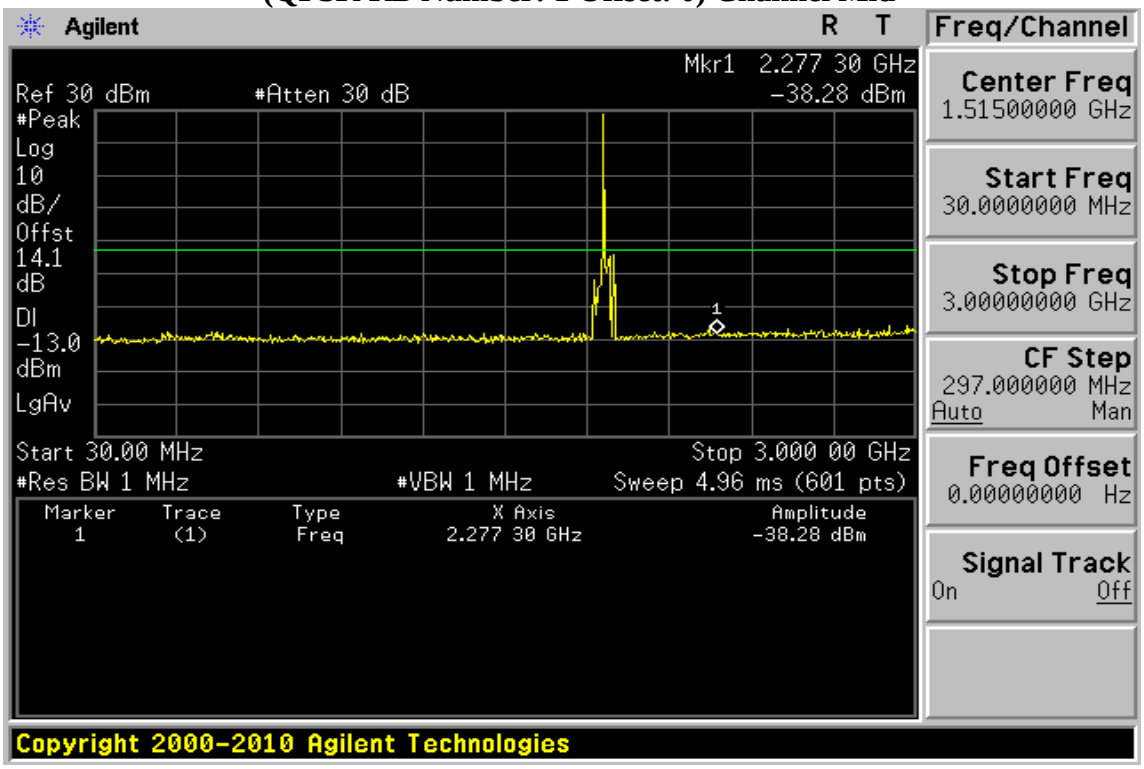
Figure 9-111: Out of Band emission at antenna terminals–20MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Lowest

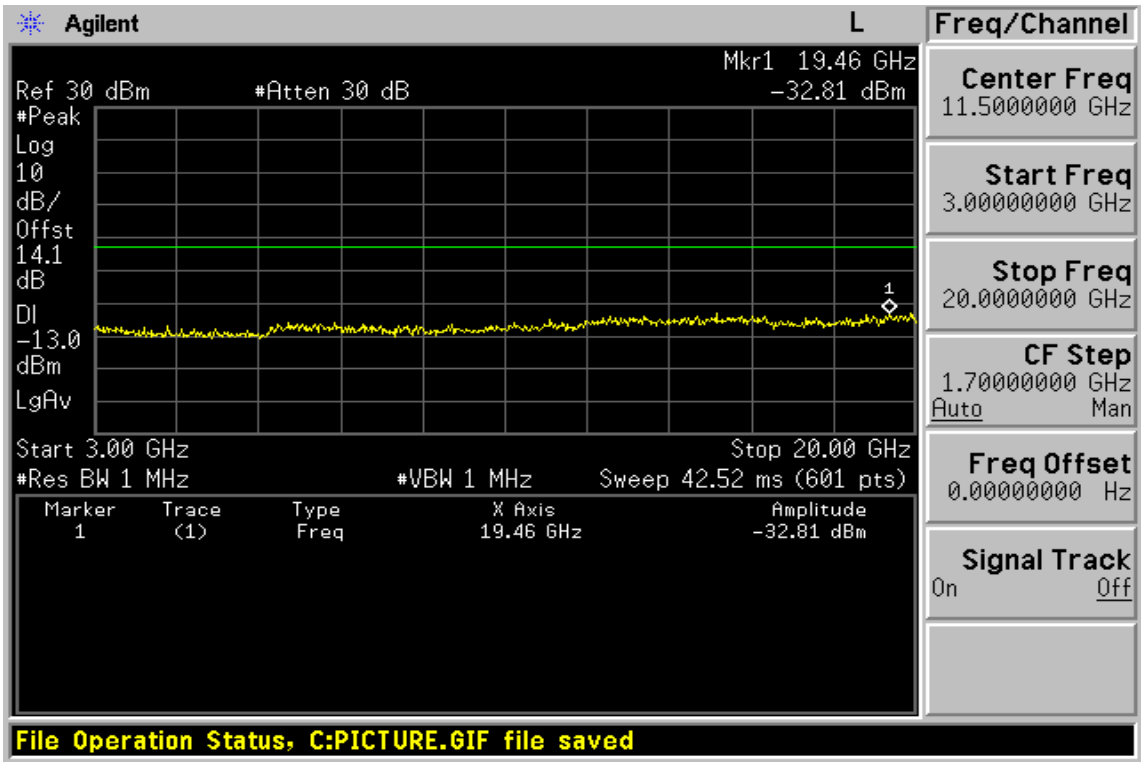




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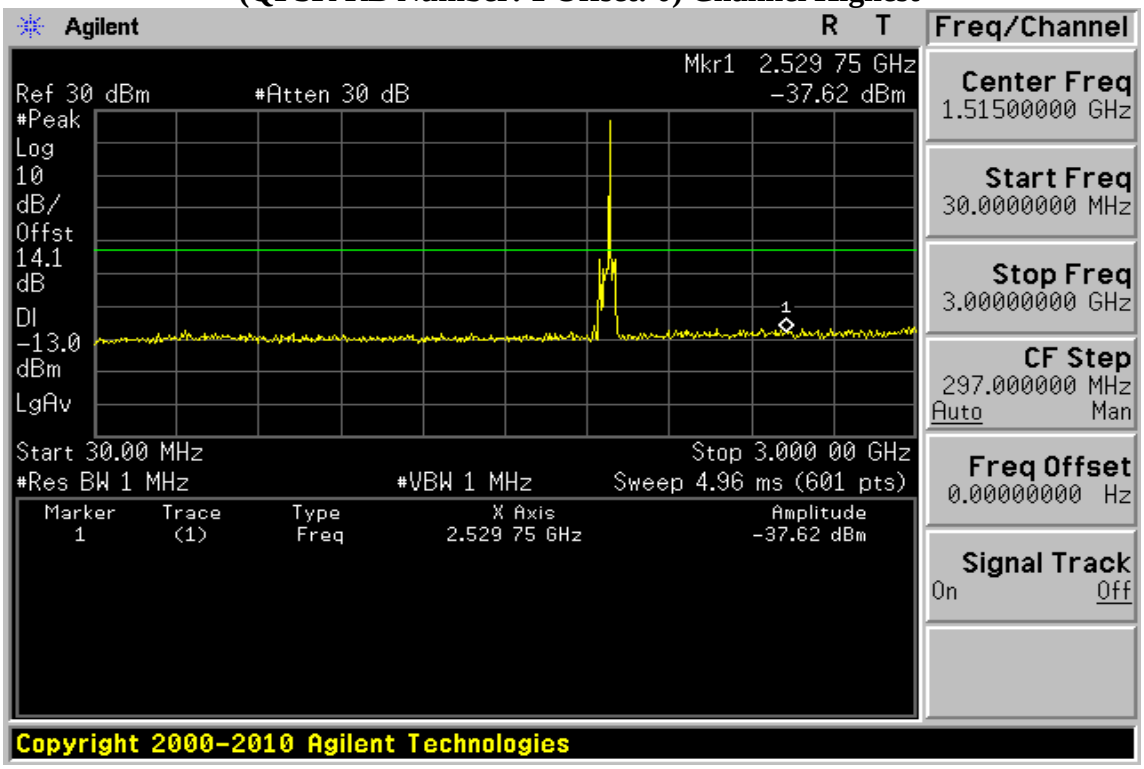
Figure 9-112: Out of Band emission at antenna terminals –20MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Mid

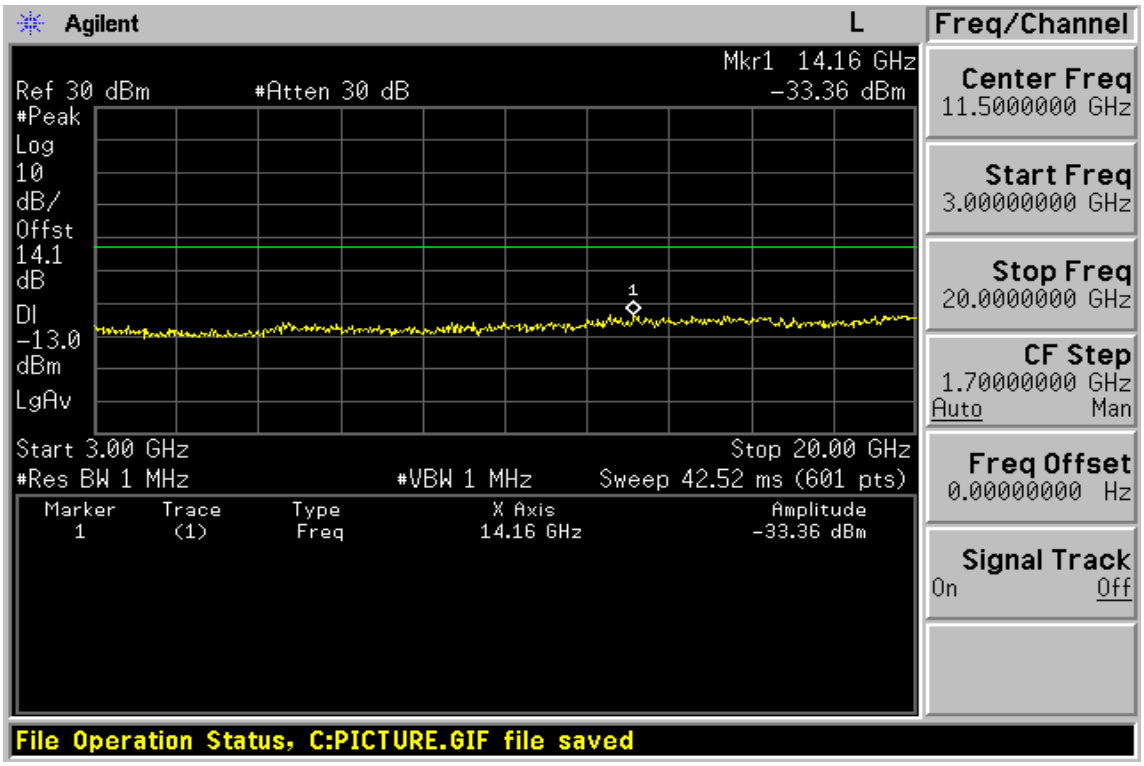




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Figure 9-113: Out of Band emission at antenna terminals–20MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Highest





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

(QPSK RB Number: 1 Offset: 0)

Fundamental Frequency :1860.0 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	---
3720.00	H	---	-13.00	---
5580.00	H	---	-13.00	---
7440.00	H	---	-13.00	---
9300.00	H	---	-13.00	---
11160.00	H	---	-13.00	---
13020.00	H	---	-13.00	---
14880.00	H	---	-13.00	---
16320.00	S	-33.42	-13.00	20.42
16740.00	H	---	-13.00	---
18600.00	H	---	-13.00	---

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

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Fundamental Frequency :1880.0 MHz Engineer :Nick
Operation Mode :TX Mid

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	H	---	-13.00	---
5640.00	H	---	-13.00	---
7520.00	H	---	-13.00	---
9400.00	H	---	-13.00	---
11280.00	H	---	-13.00	---
13160.00	H	---	-13.00	---
15040.00	H	---	-13.00	---
16920.00	H	---	-13.00	---
18800.00	H	---	-13.00	---
19460.00	S	-32.81	-13.00	19.81

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

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Fundamental Frequency :1900MHz Engineer :Nick
Operation Mode :TX High

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
3800.00	H	---	-13.00	---
5700.00	H	---	-13.00	---
7600.00	H	---	-13.00	---
9500.00	H	---	-13.00	---
11400.00	H	---	-13.00	---
13300.00	H	---	-13.00	---
14160.00	S	-33.36	-13.00	20.36
15200.00	H	---	-13.00	---
17100.00	H	---	-13.00	---
19000.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
“” : denotes Spurious Freque

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Figure 9-114: Band edge emission at antenna terminals –20MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Lowest

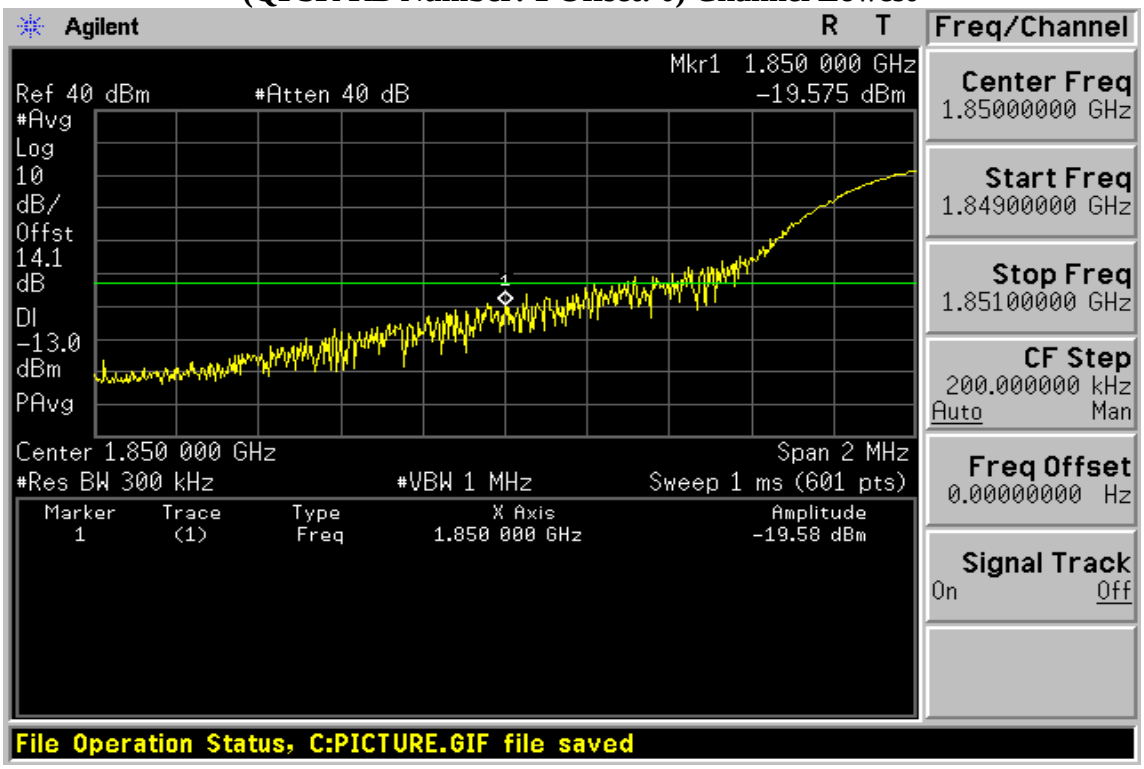
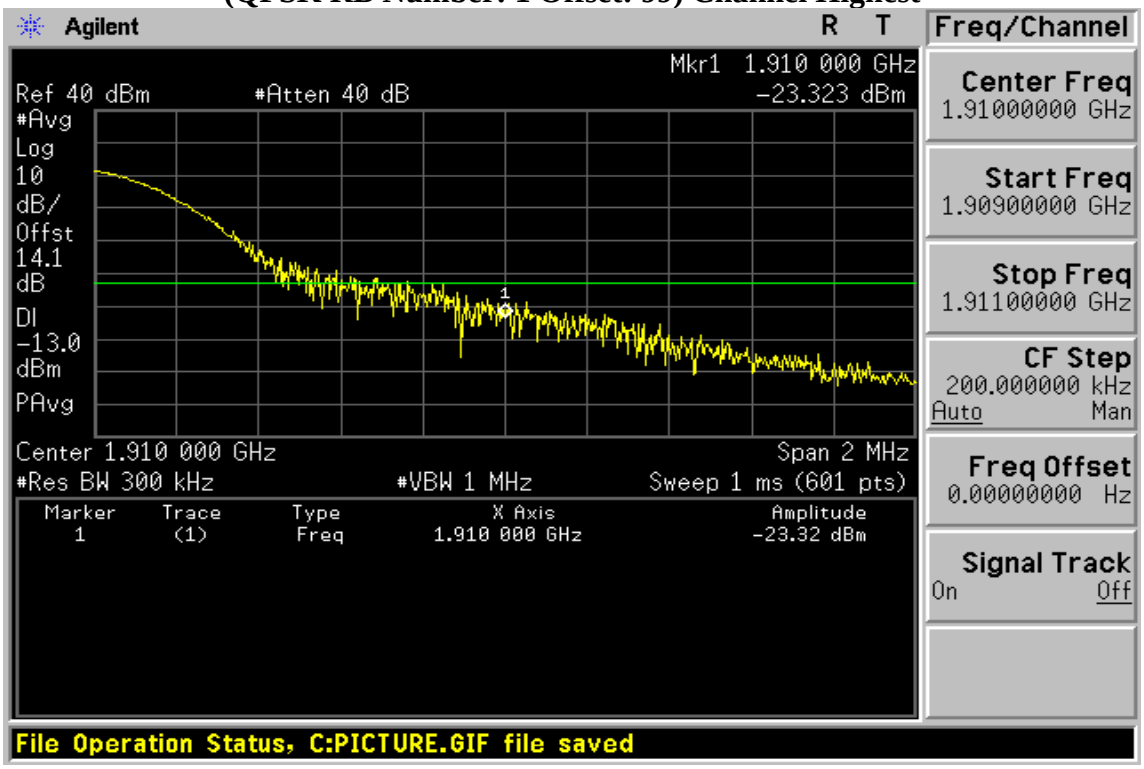


Figure 9-115: Band edge emission at antenna terminals –20MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 99) Channel Highest



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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 :Nick

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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Figure 9-116: Band edge emission at antenna terminals –20MHz BW LTE-Band 2 (QPSK RB Number: 100 Offset: 0) Channel Lowest

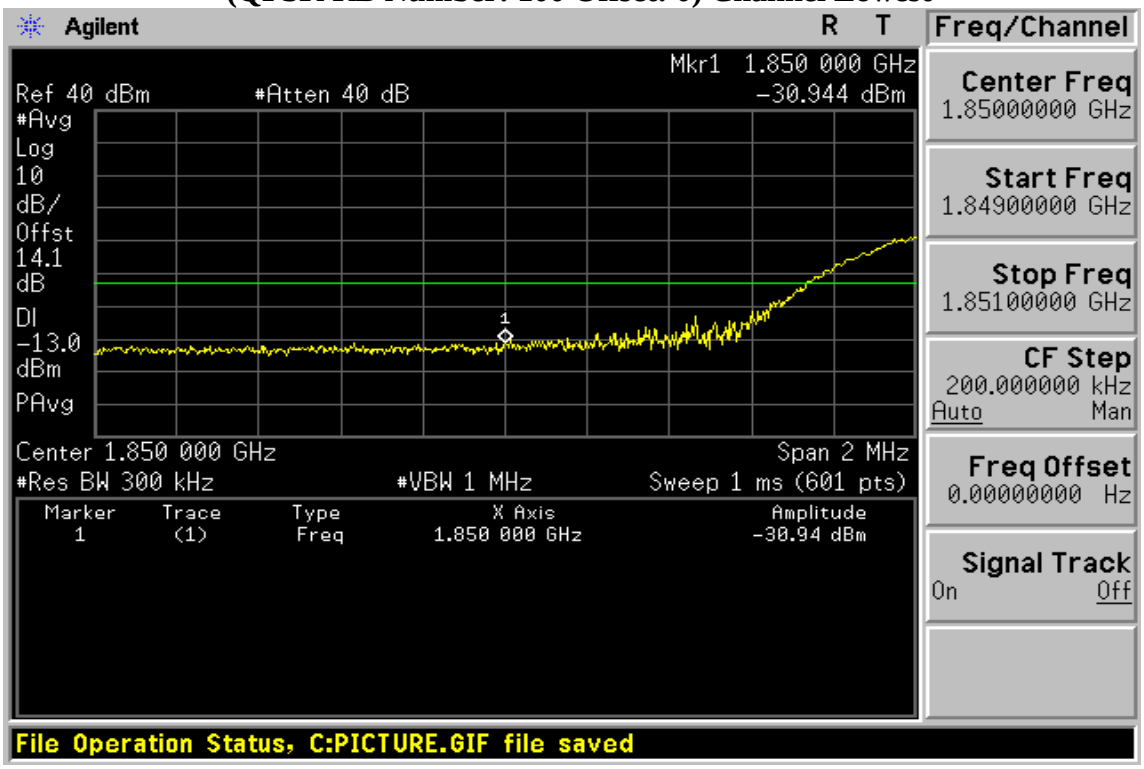
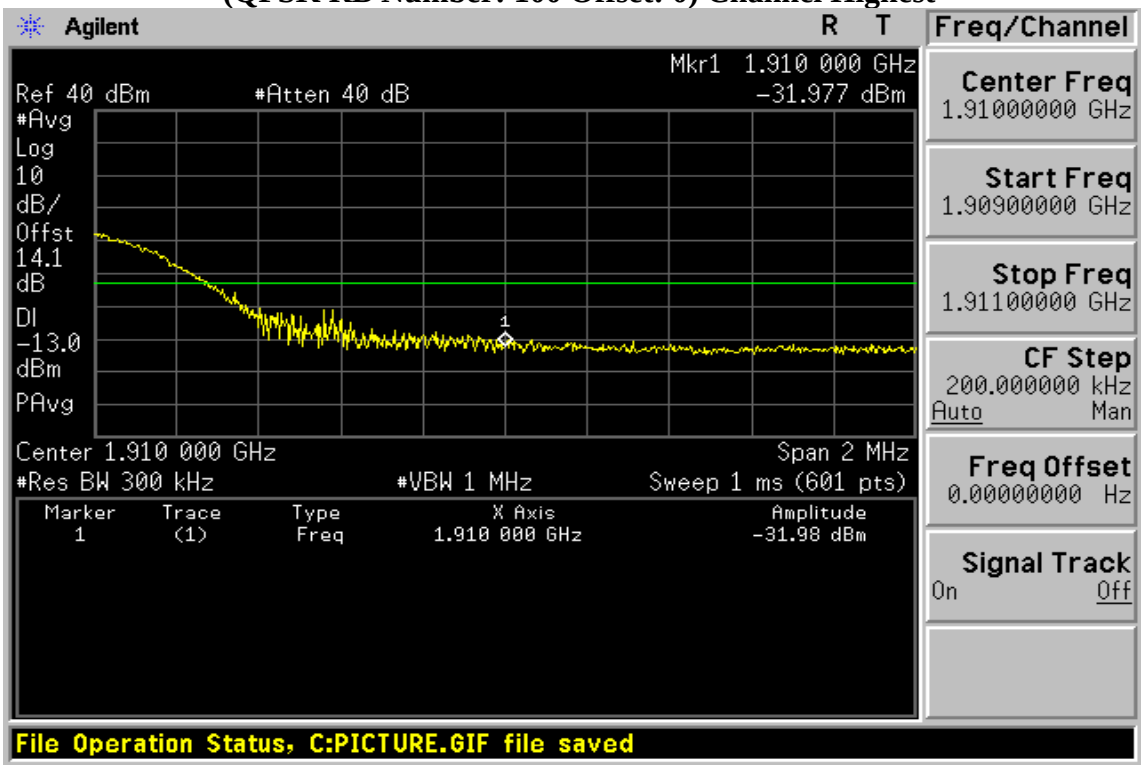


Figure 9-117: Band edge emission at antenna terminals –20MHz BW LTE-Band 2 (QPSK RB Number: 100 Offset: 0) Channel Highest



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

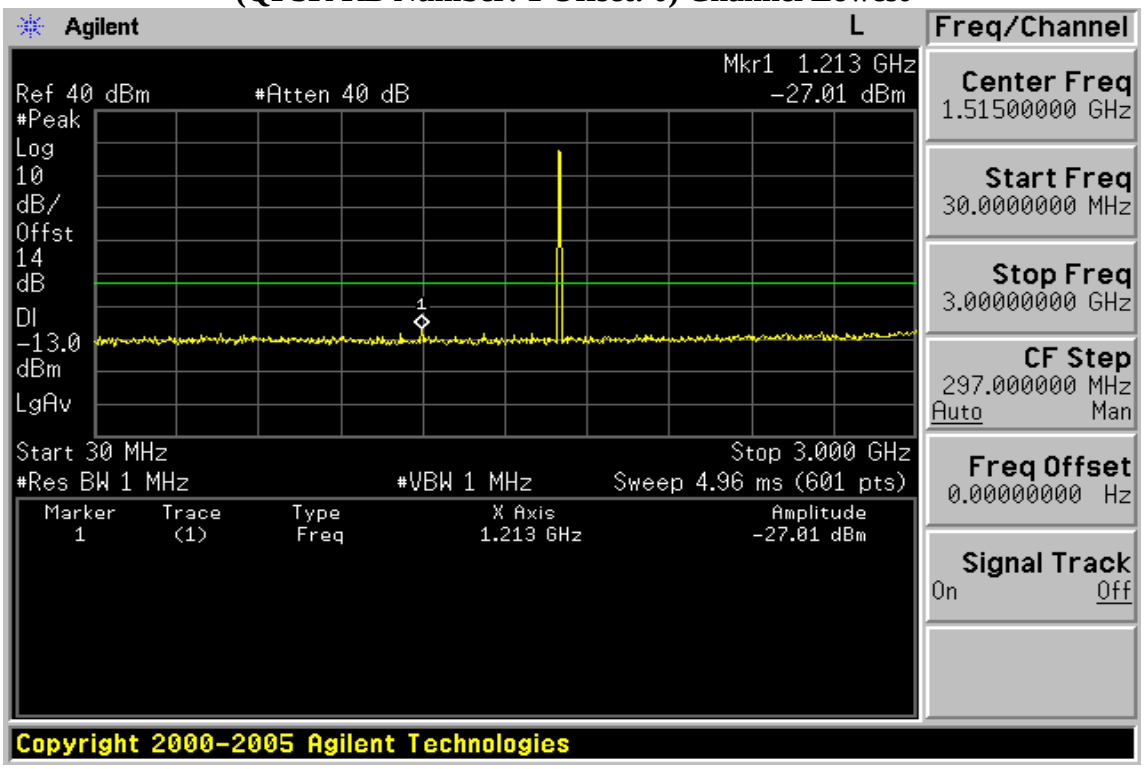
(QPSK RB Number: 100 Offset: 0)

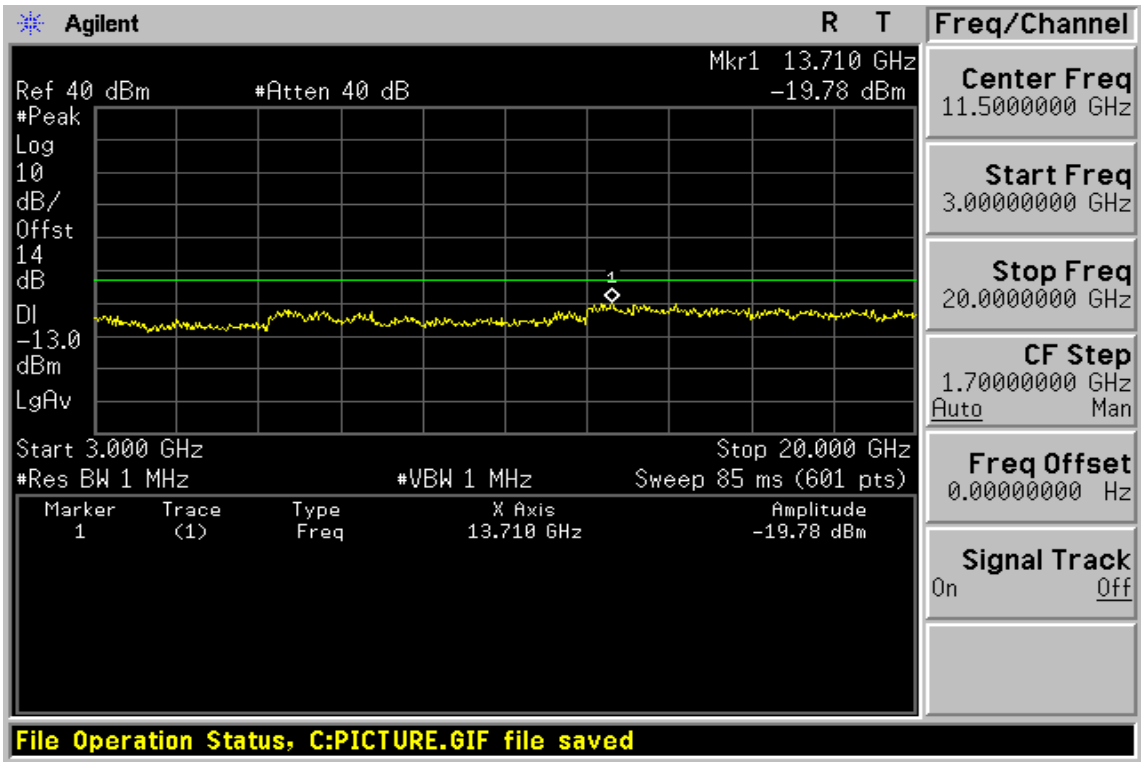
Test Mode 20MHz BW LTE-Band 2 Engineer :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1850.000	-30.94	-13.00	17.94
1910.000	-31.98	-13.00	18.98

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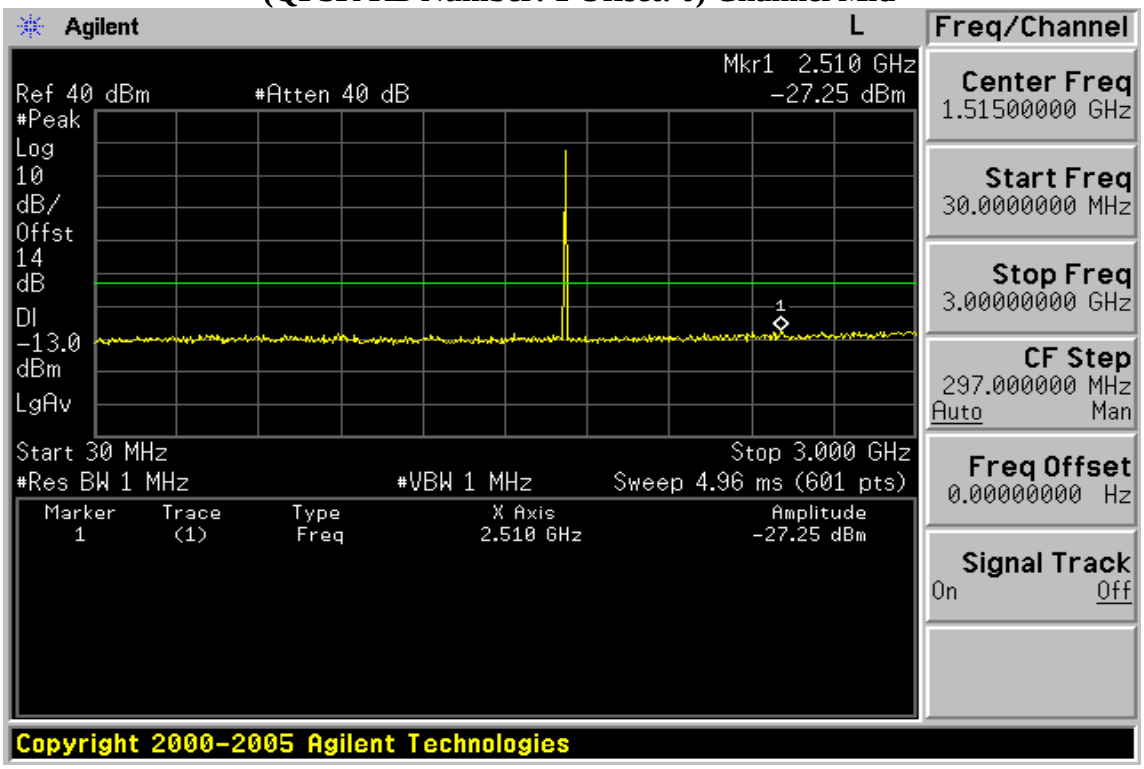
Figure 9-118: Out of Band emission at antenna terminals–1.4MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Lowest

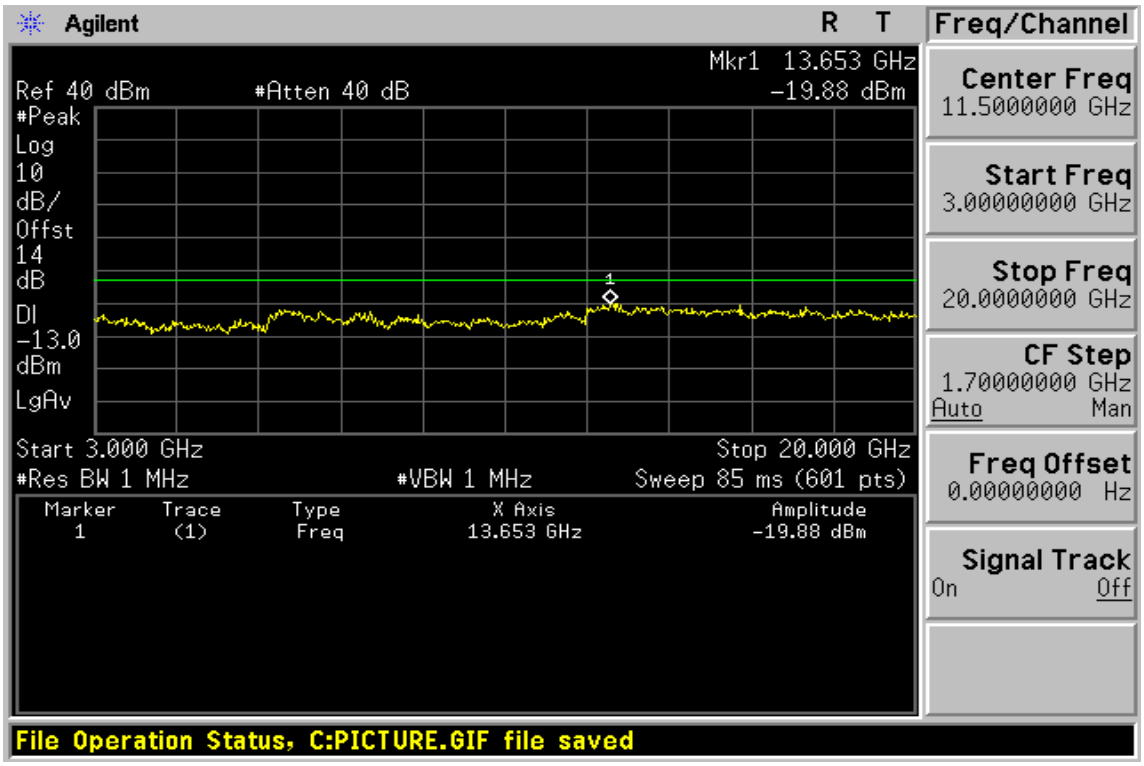




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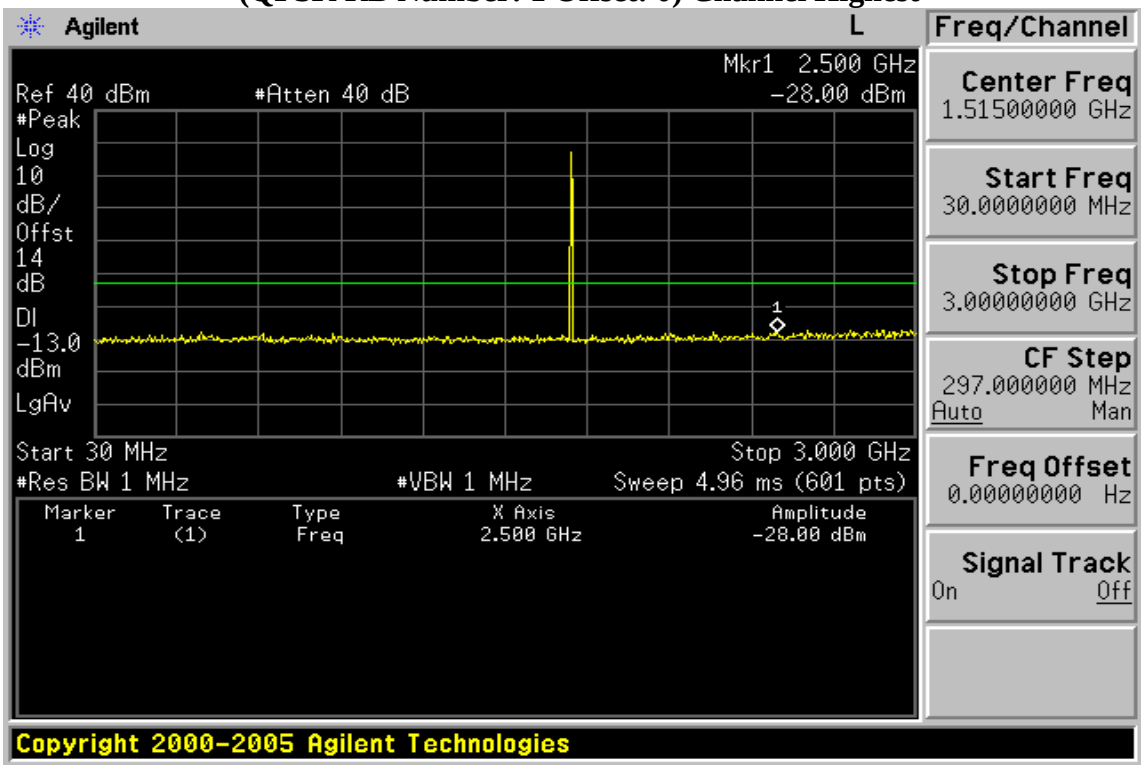
Figure 9-119: Out of Band emission at antenna terminals –1.4MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Mid

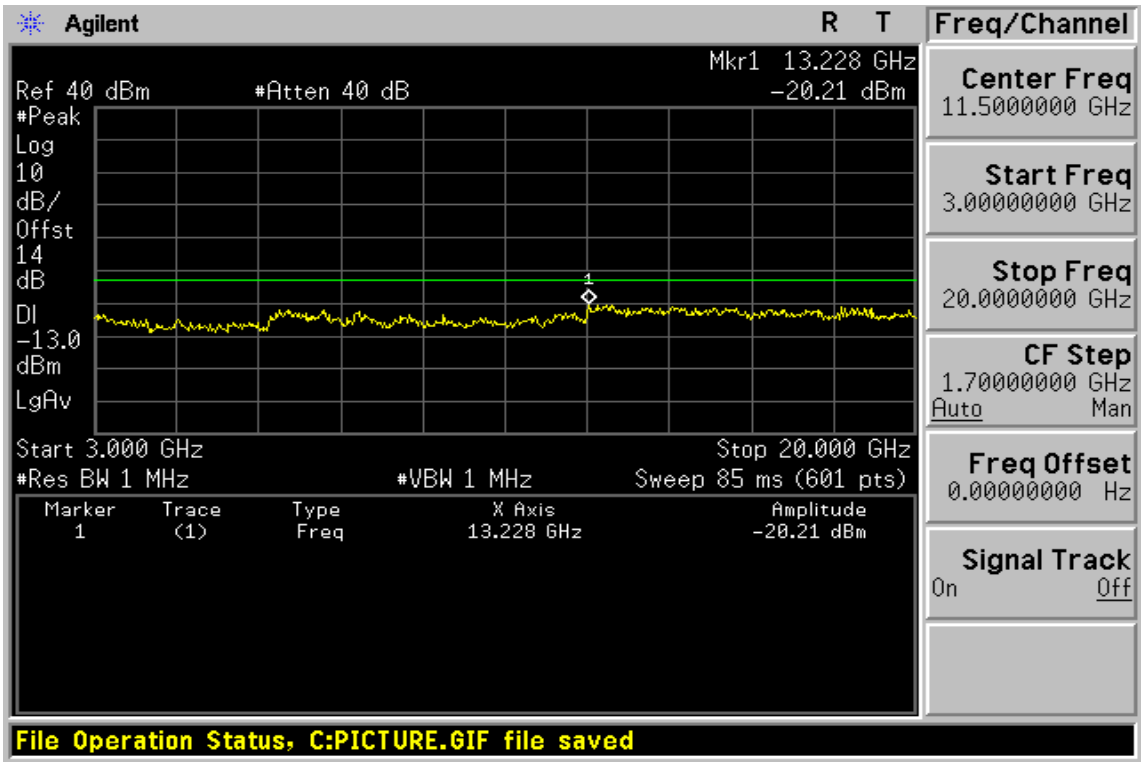




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Figure 9-120: Out of Band emission at antenna terminals–1.4MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Highest





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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 :1710.7 MHz Engineer :Marcus
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	---
3421.40	H	---	-13.00	---
5132.10	H	---	-13.00	---
6842.80	H	---	-13.00	---
8553.50	H	---	-13.00	---
10264.20	H	---	-13.00	---
11974.90	H	---	-13.00	---
13685.60	H	---	-13.00	---
13710.00	S	-19.78	-13.00	6.78
15396.30	H	---	-13.00	---
17107.00	H	---	-13.00	---

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

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Fundamental Frequency :1732.5 MHz Engineer :Marcus
Operation Mode :TX Mid

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	H	---	-13.00	---
5197.50	H	---	-13.00	---
6930.00	H	---	-13.00	---
8662.50	H	---	-13.00	---
10395.00	H	---	-13.00	---
12127.50	H	---	-13.00	---
13653.00	S	-19.88	-13.00	6.88
13860.00	H	---	-13.00	---
15592.50	H	---	-13.00	---
17325.00	H	---	-13.00	---

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

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Fundamental Frequency :1754.3MHz Engineer :Marcus
Operation Mode :TX High

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	H	---	-13.00	---
5262.90	H	---	-13.00	---
7017.20	H	---	-13.00	---
8771.50	H	---	-13.00	---
10525.80	H	---	-13.00	---
12280.10	H	---	-13.00	---
13228.00	S	-20.21	-13.00	7.21
14034.40	H	---	-13.00	---
15788.70	H	---	-13.00	---
17543.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
“” : denotes Spurious Freque

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Figure 9-121: Band edge emission at antenna terminals –1.4MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Lowest

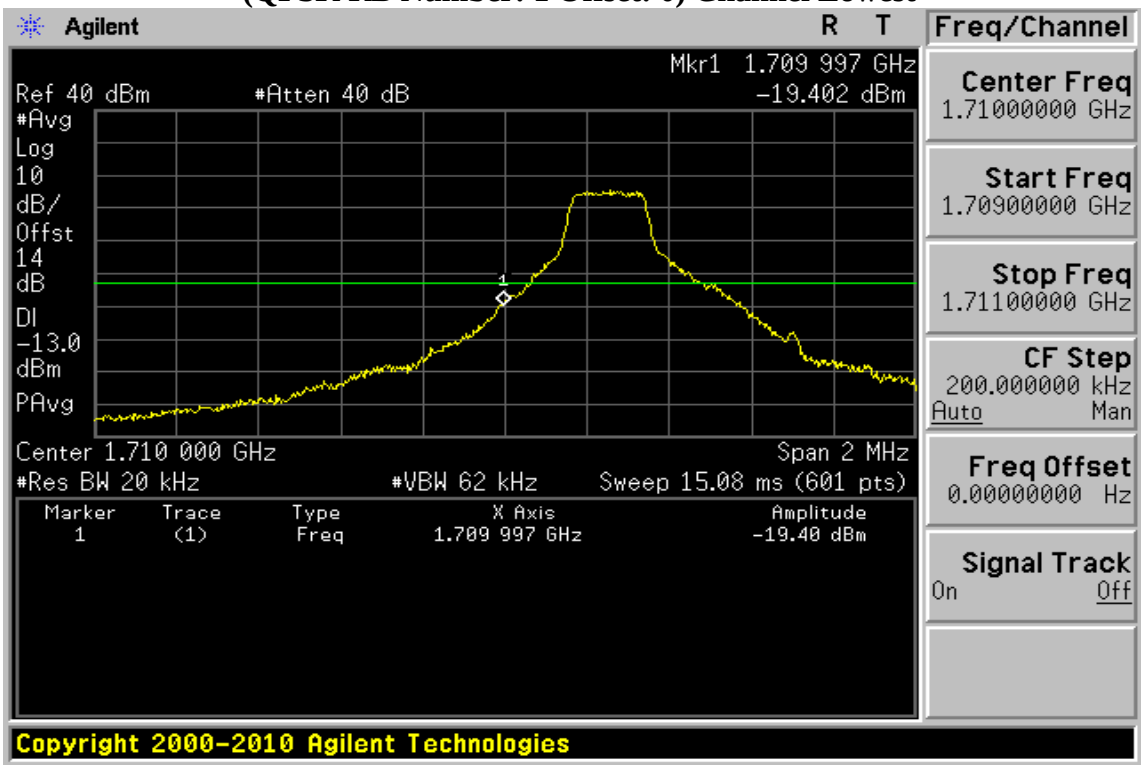
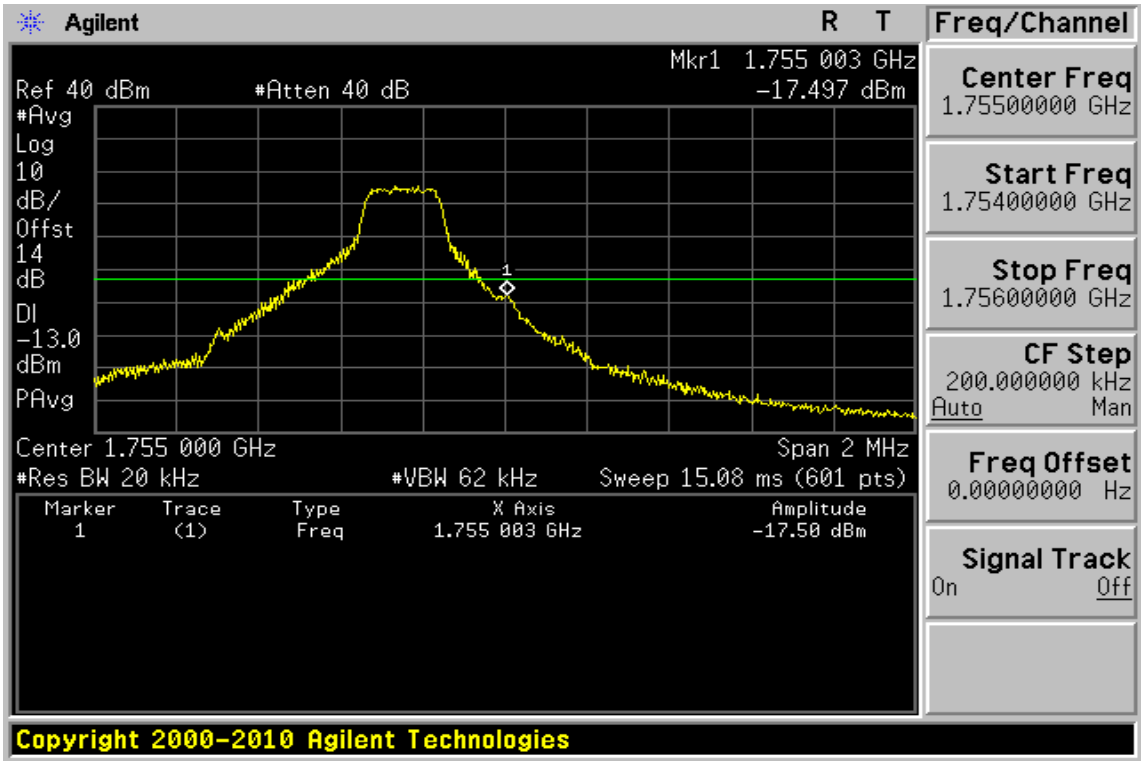


Figure 9-122: Band edge emission at antenna terminals –1.4MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 5) Channel Highest



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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 9-123: Band edge emission at antenna terminals –1.4MHz BW LTE-Band 4 (QPSK RB Number: 6 Offset: 0) Channel Lowest

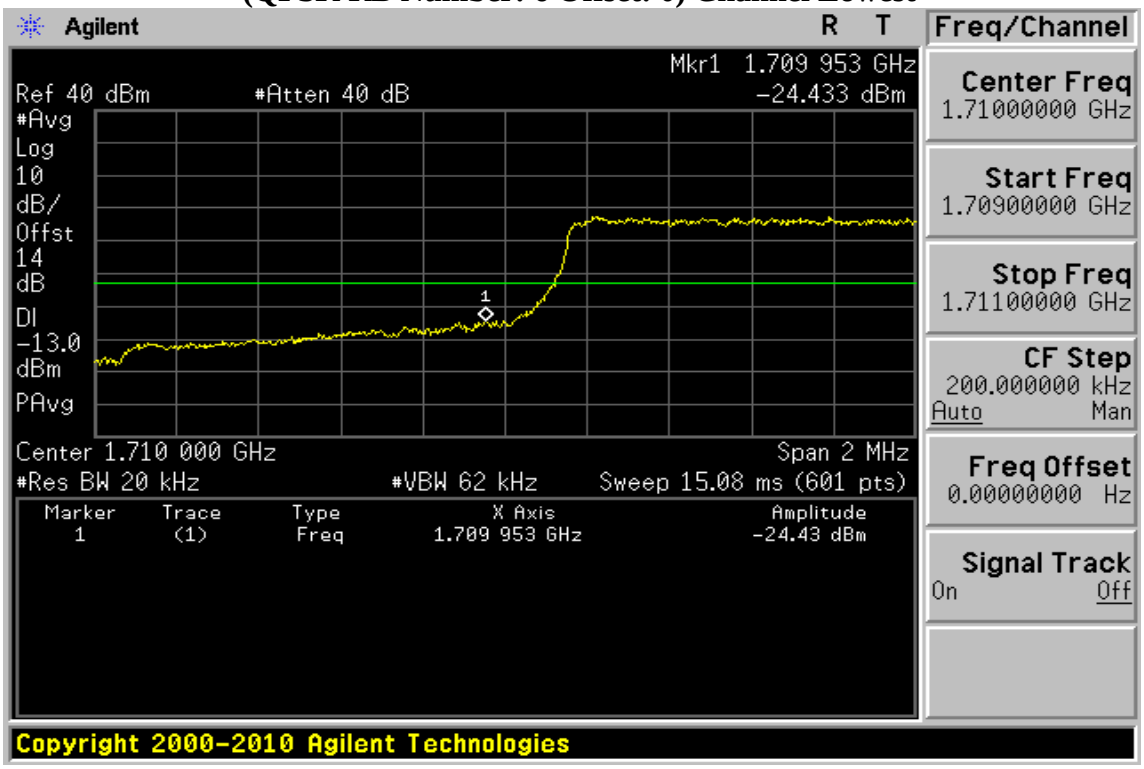
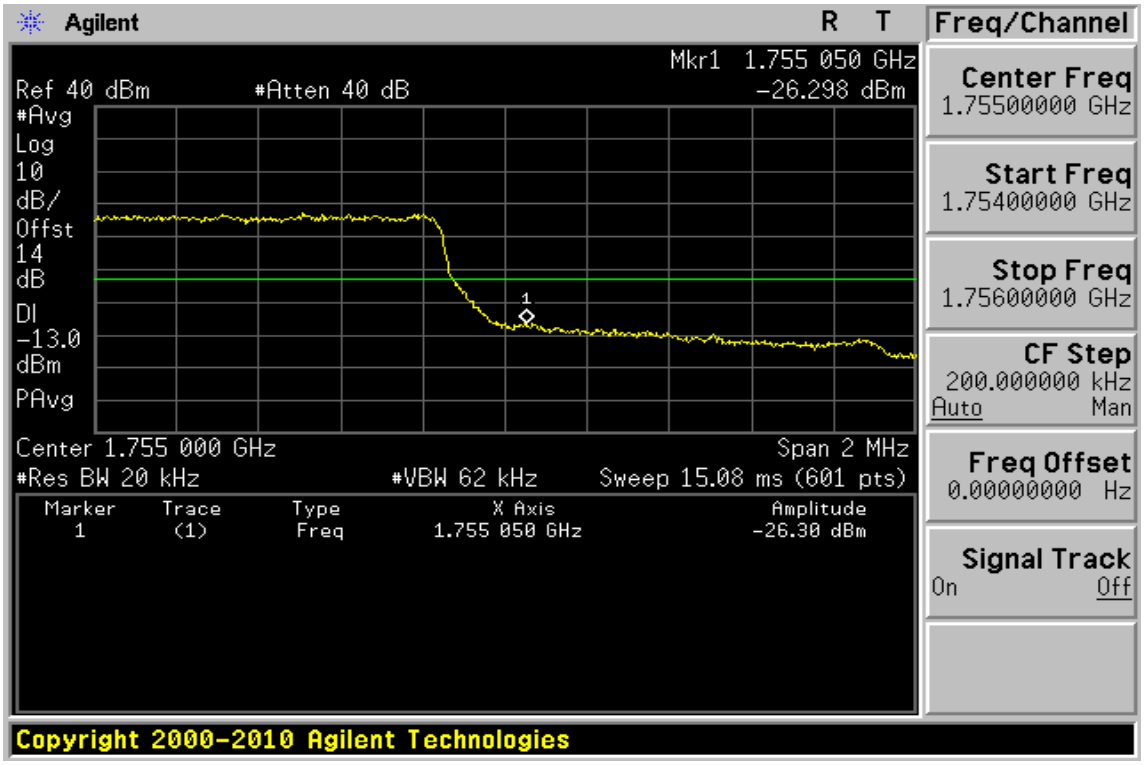


Figure 9-124: Band edge emission at antenna terminals –1.4MHz BW LTE-Band 4 (QPSK RB Number: 6 Offset: 0) Channel Highest



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

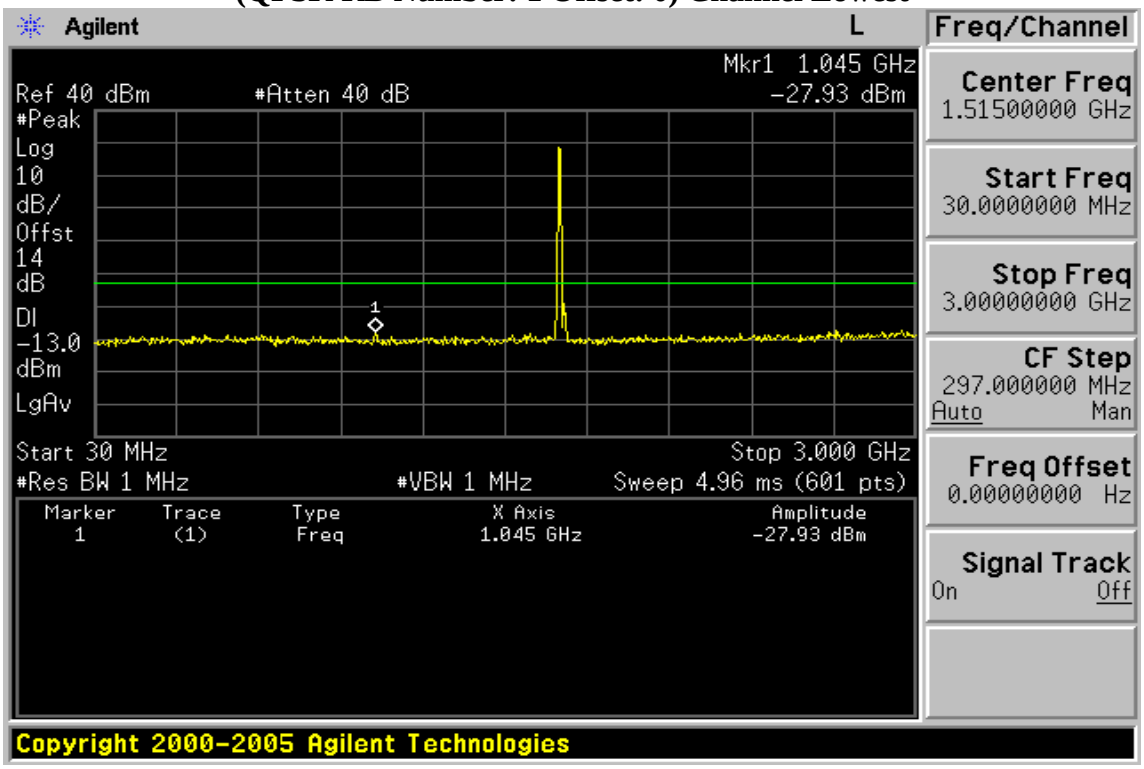
(QPSK RB Number: 6 Offset: 0)

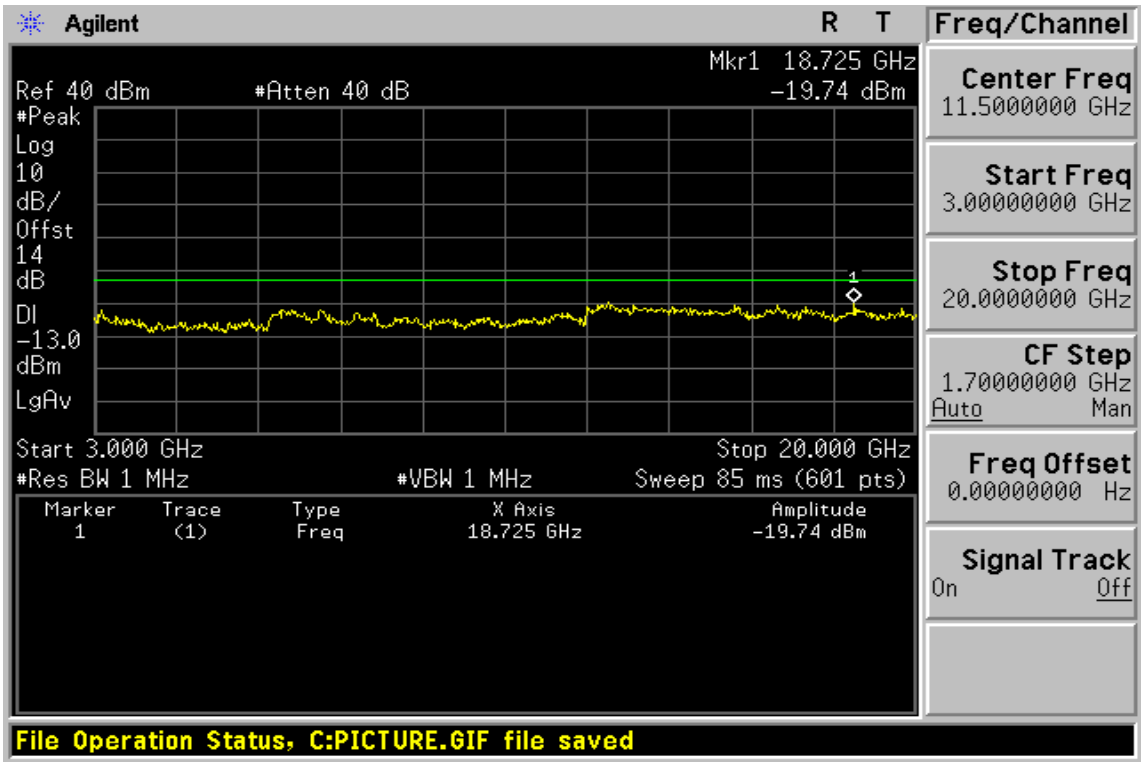
Test Mode 1.4MHz BW LTE-Band 4 Engineer :Marcus

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1709.953	-24.43	-13.00	11.43
1755.050	-26.30	-13.00	13.30

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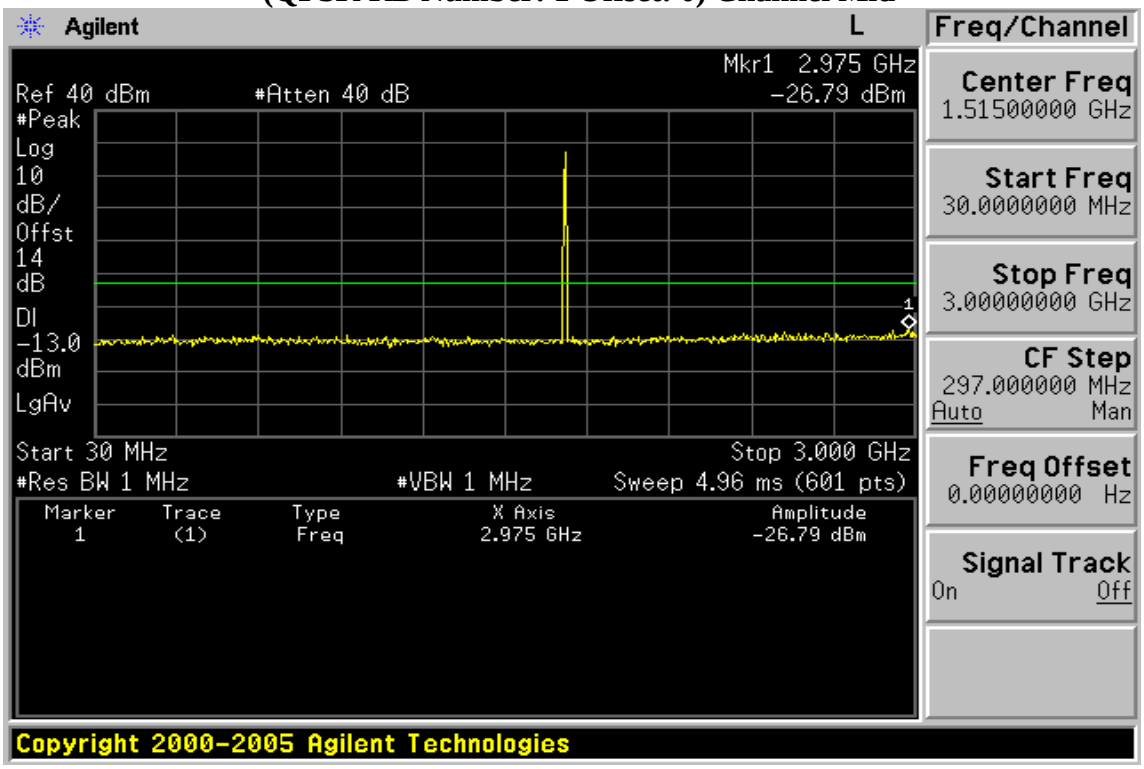
Figure 9-125: Out of Band emission at antenna terminals–3MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Lowest

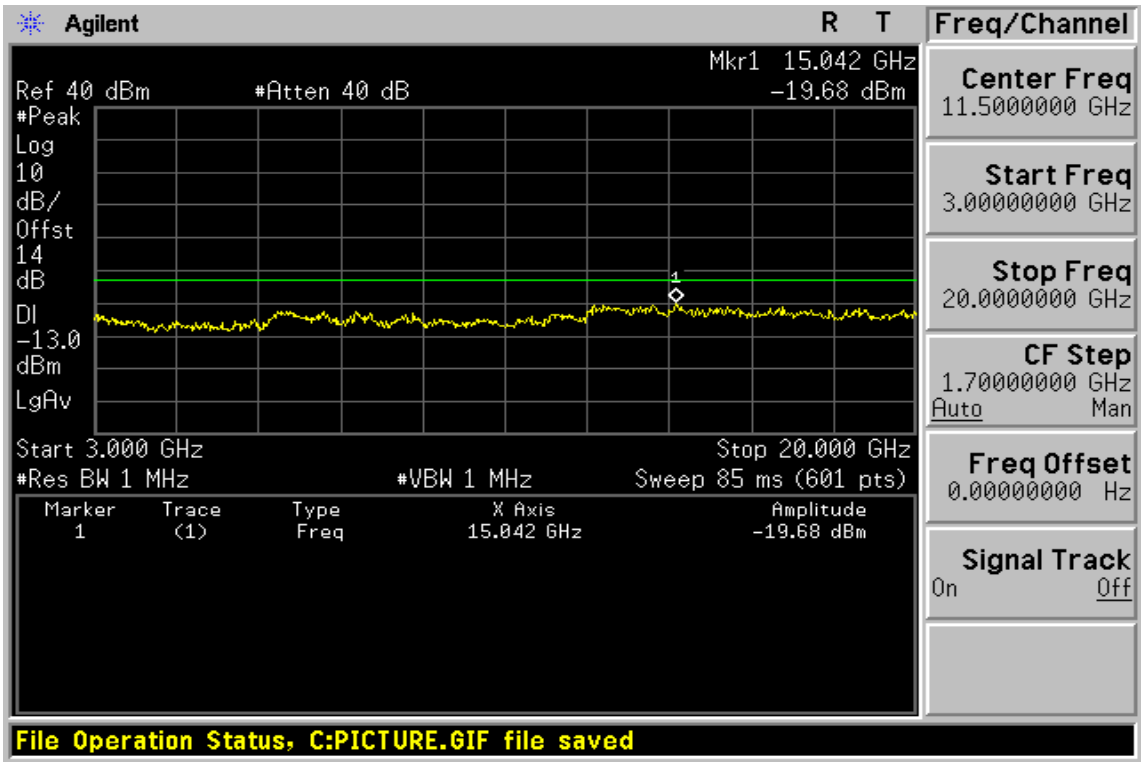




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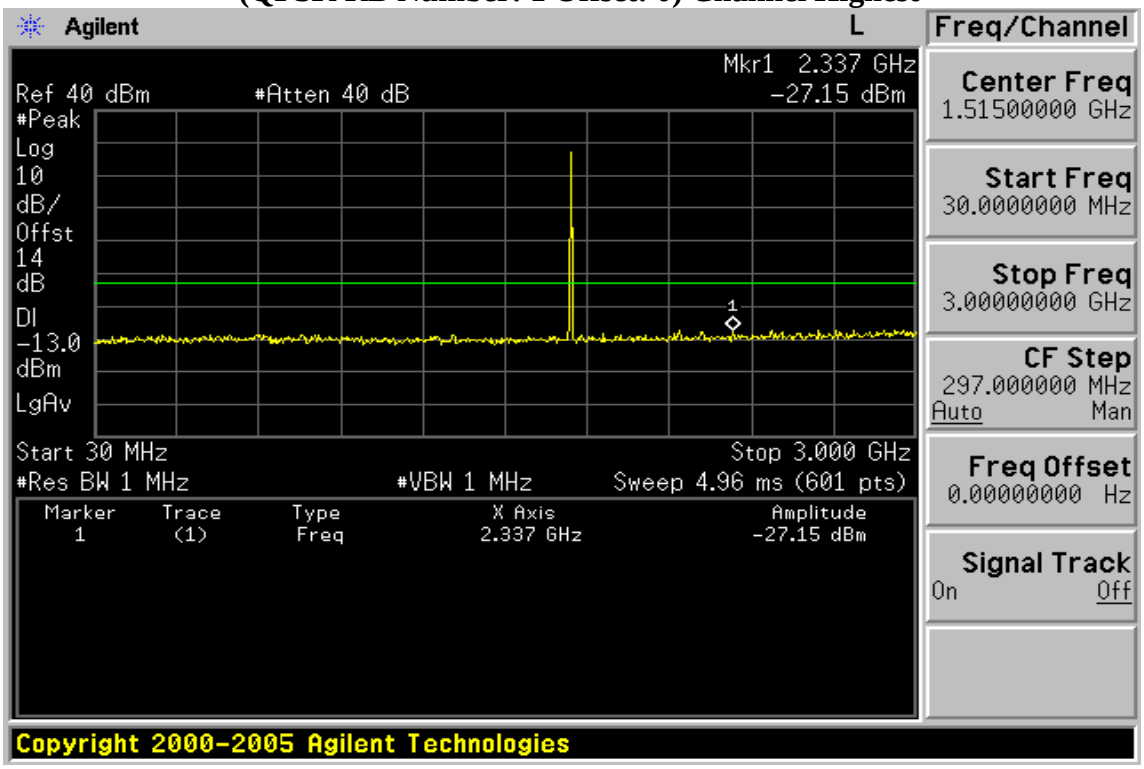
Figure 9-126: Out of Band emission at antenna terminals –3MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Mid

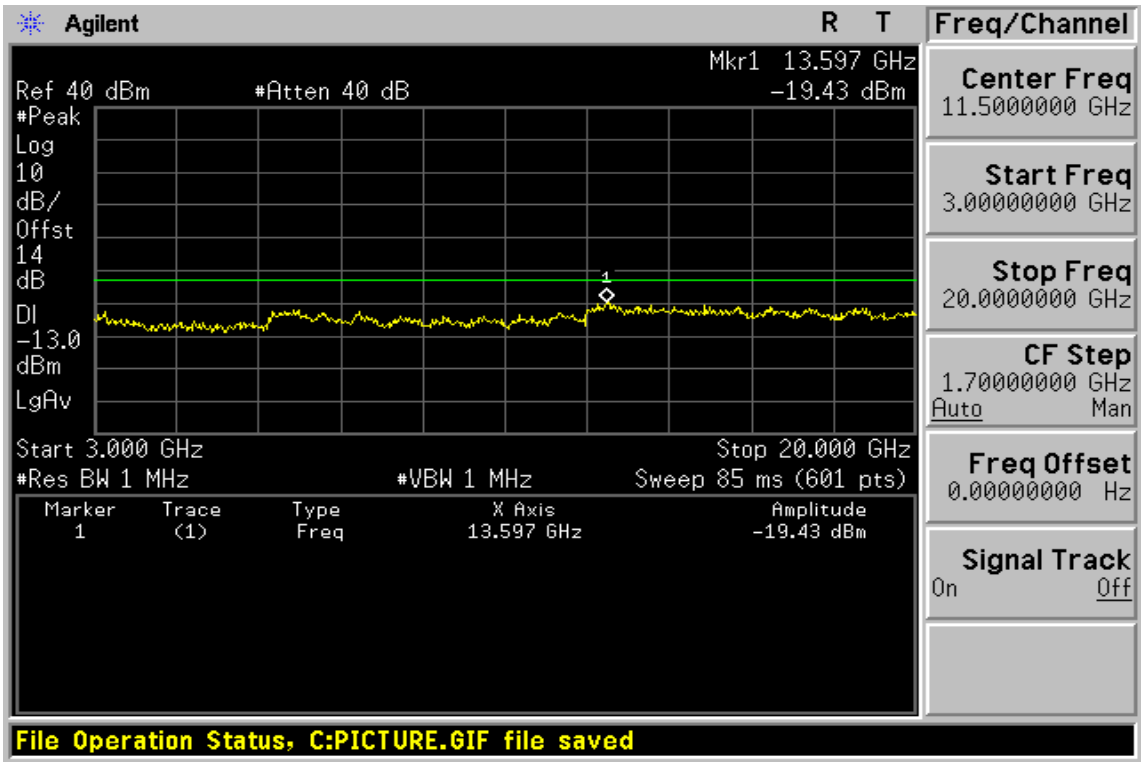




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Figure 9-127: Out of Band emission at antenna terminals–3MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Highest





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

(QPSK RB Number: 1 Offset: 0)

Fundamental Frequency :1711.5 MHz Engineer :Marcus
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	---
3423.00	H	---	-13.00	---
5134.50	H	---	-13.00	---
6846.00	H	---	-13.00	---
8557.50	H	---	-13.00	---
10269.00	H	---	-13.00	---
11980.50	H	---	-13.00	---
13692.00	H	---	-13.00	---
15403.50	H	---	-13.00	---
17115.00	H	---	-13.00	---
18725.00	S	-19.74	-13.00	6.74

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

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Fundamental Frequency :1732.5 MHz Engineer :Marcus
Operation Mode :TX Mid

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	H	---	-13.00	---
5197.50	H	---	-13.00	---
6930.00	H	---	-13.00	---
8662.50	H	---	-13.00	---
10395.00	H	---	-13.00	---
12127.50	H	---	-13.00	---
13860.00	H	---	-13.00	---
15042.00	S	-19.68	-13.00	6.68
15592.50	H	---	-13.00	---
17325.00	H	---	-13.00	---

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

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Fundamental Frequency :1753.5MHz Engineer :Marcus
Operation Mode :TX High

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	H	---	-13.00	---
5260.50	H	---	-13.00	---
7014.00	H	---	-13.00	---
8767.50	H	---	-13.00	---
10521.00	H	---	-13.00	---
12274.50	H	---	-13.00	---
13597.00	S	-19.43	-13.00	6.43
14028.00	H	---	-13.00	---
15781.50	H	---	-13.00	---
17535.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
“” : denotes Spurious Freque

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Figure 9-128: Band edge emission at antenna terminals –3MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Lowest

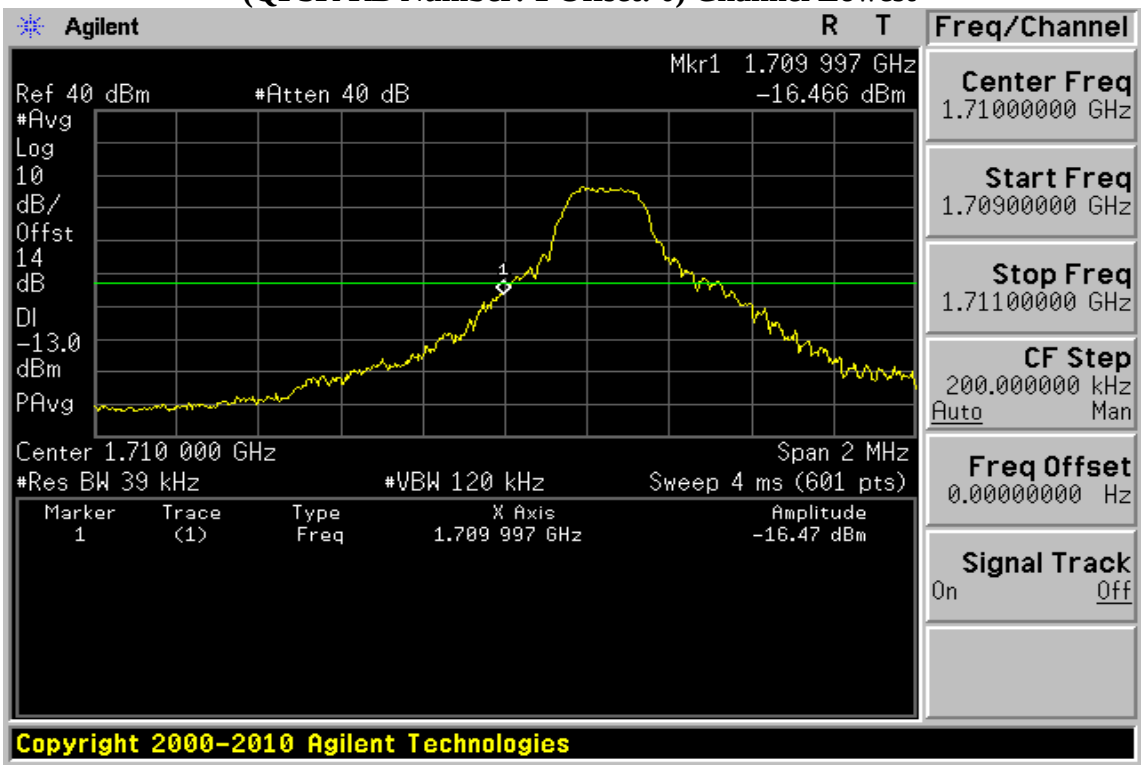
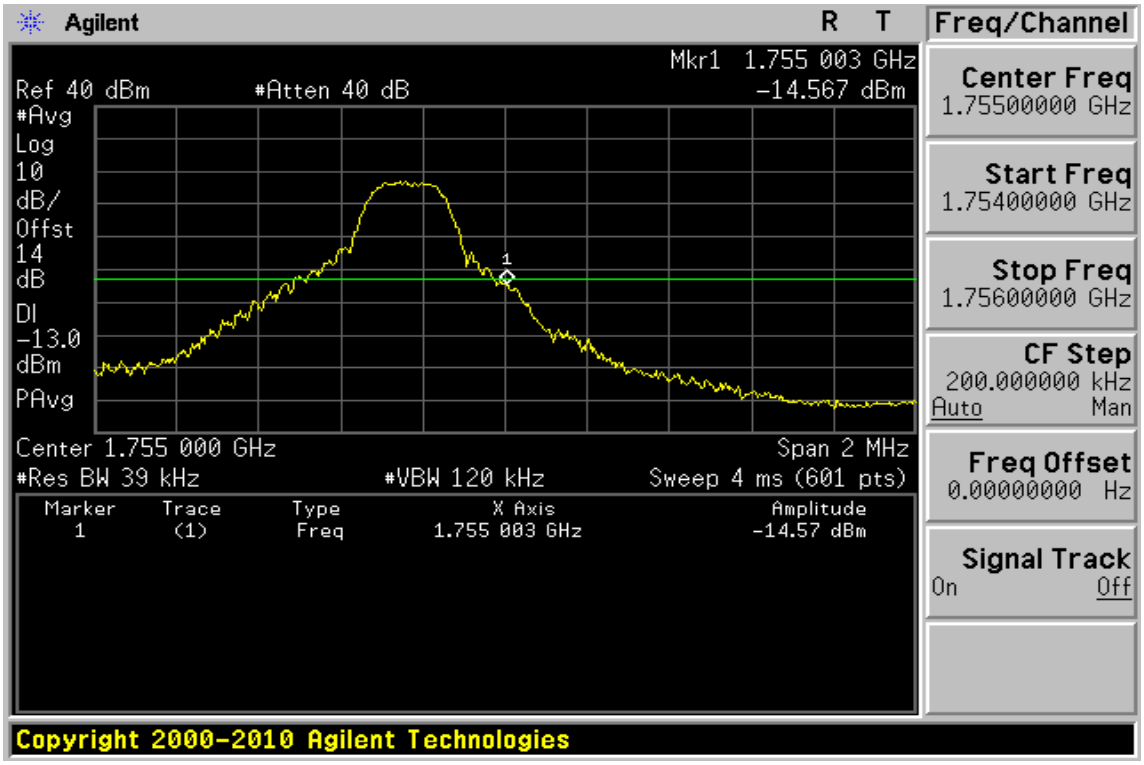


Figure 9-129: Band edge emission at antenna terminals –3MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 14) Channel Highest



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

(QPSK RB Number: 1 Offset: 0) (QPSK RB Number: 1 Offset: 14)

Test Mode 3MHz BW LTE-Band 4 Engineer :Marcus

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1709.997	-16.47	-13.00	3.47
1755.003	-14.57	-13.00	1.57

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Figure 9-130: Band edge emission at antenna terminals –3MHz BW LTE-Band 4 (QPSK RB Number: 15 Offset: 0) Channel Lowest

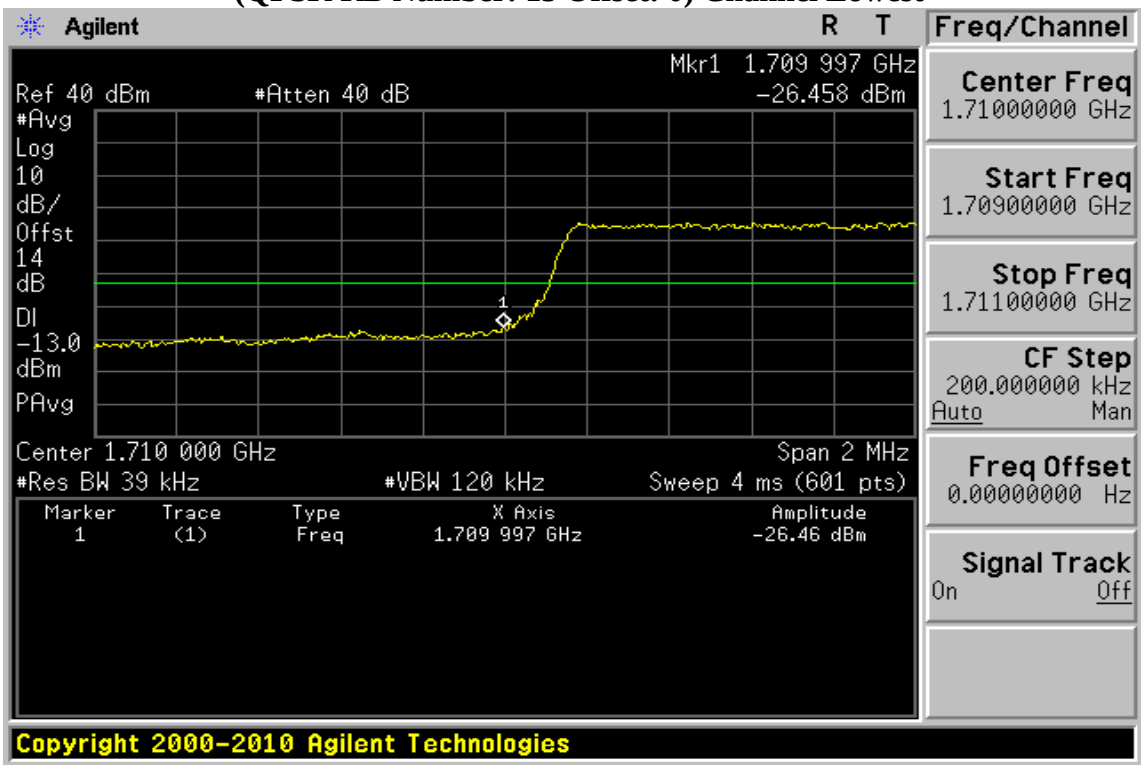
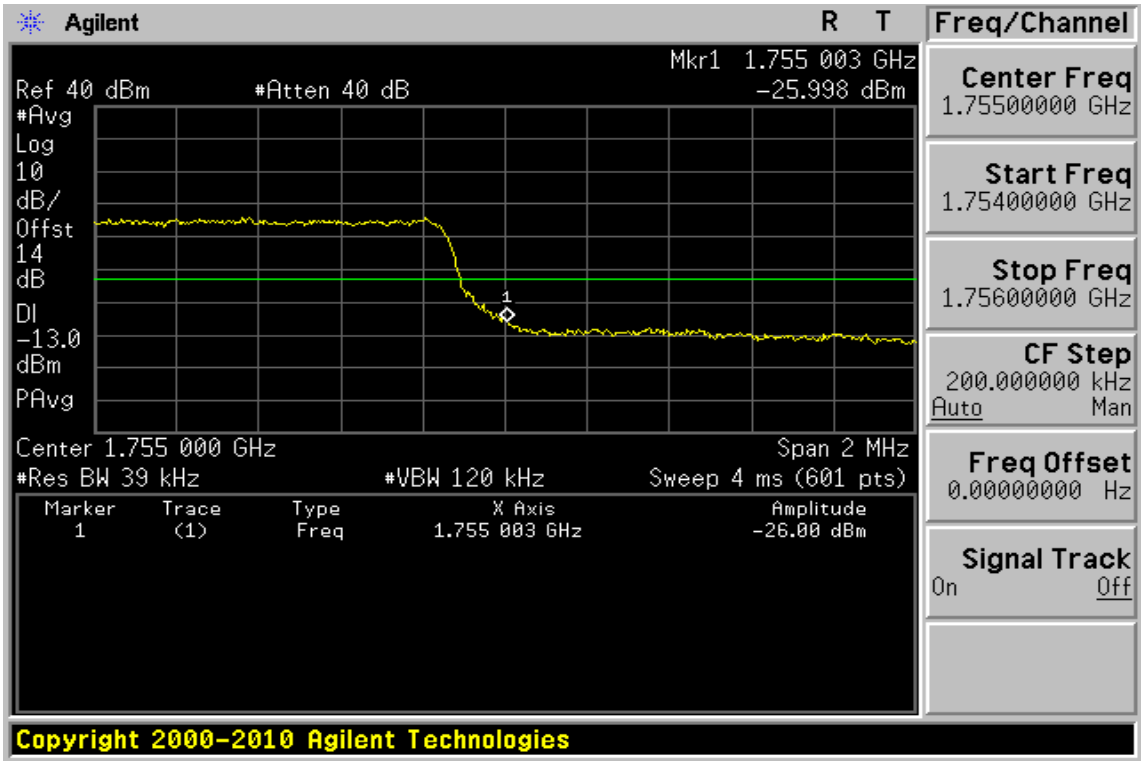


Figure 9-131: Band edge emission at antenna terminals –3MHz BW LTE-Band 4 (QPSK RB Number: 15 Offset: 0) Channel Highest



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

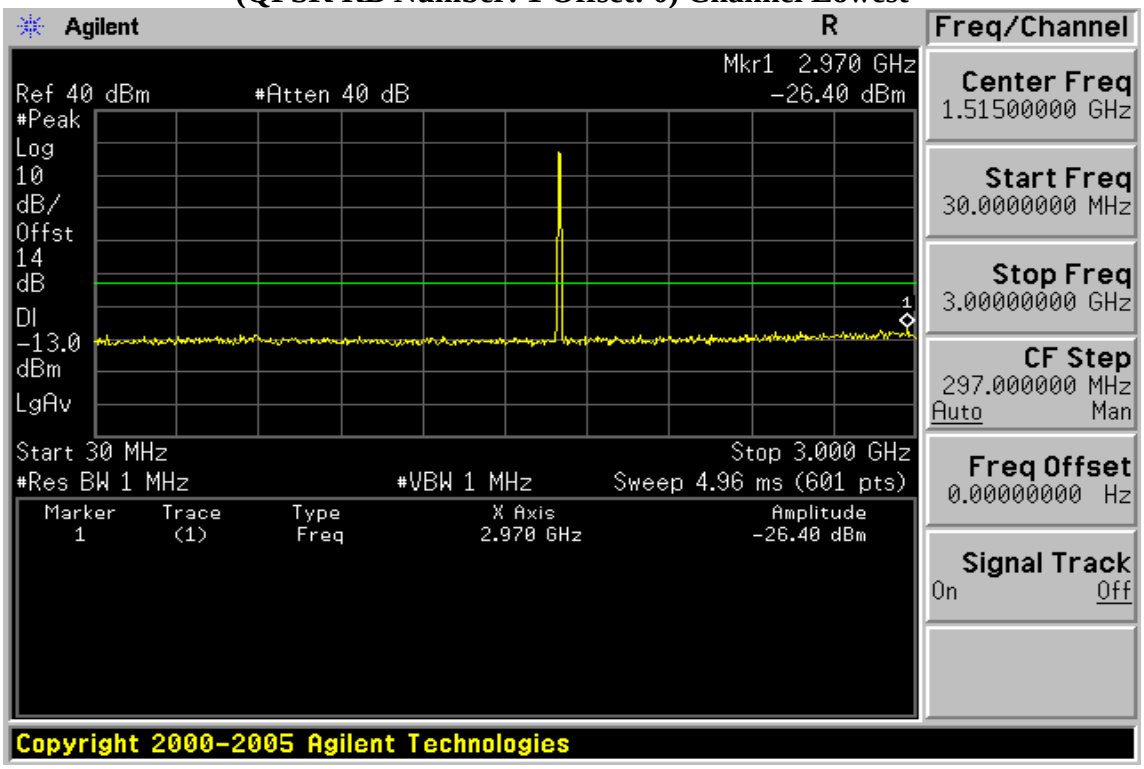
(QPSK RB Number: 15 Offset: 0)

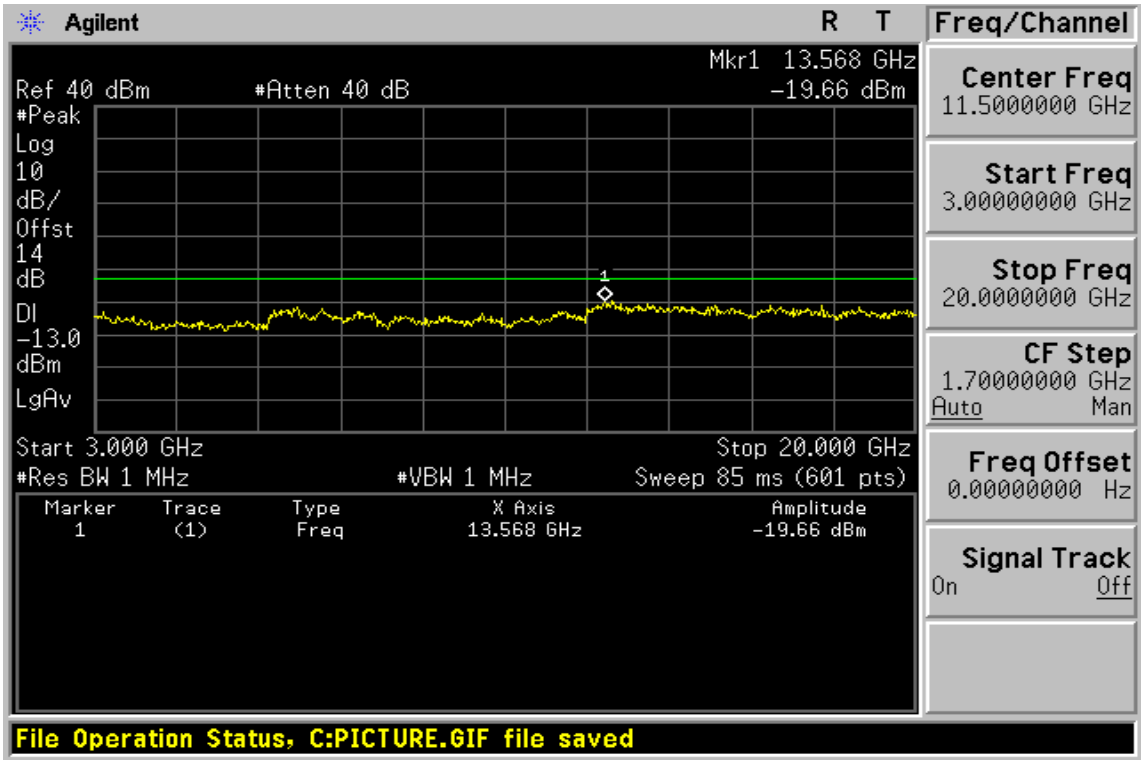
Test Mode 3MHz BW LTE-Band 4 Engineer :Marcus

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1709.997	-26.46	-13.00	13.46
1755.003	-26.00	-13.00	13.00

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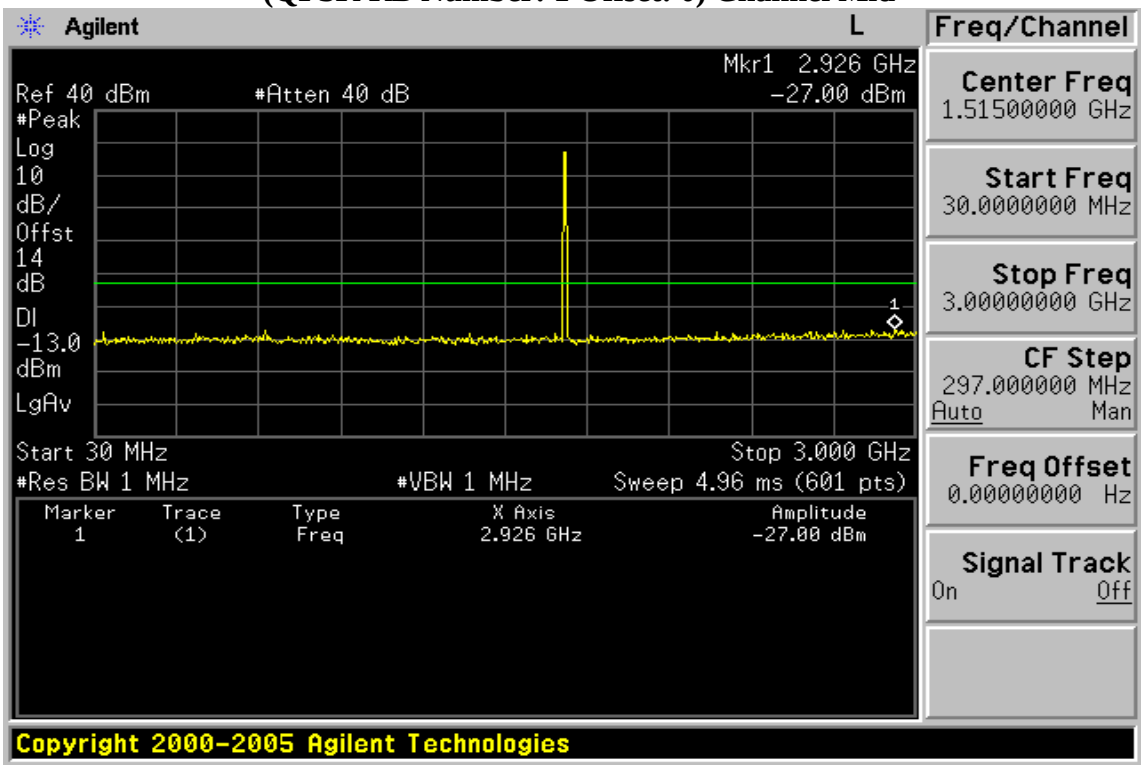
Figure 9-132: Out of Band emission at antenna terminals–5MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Lowest

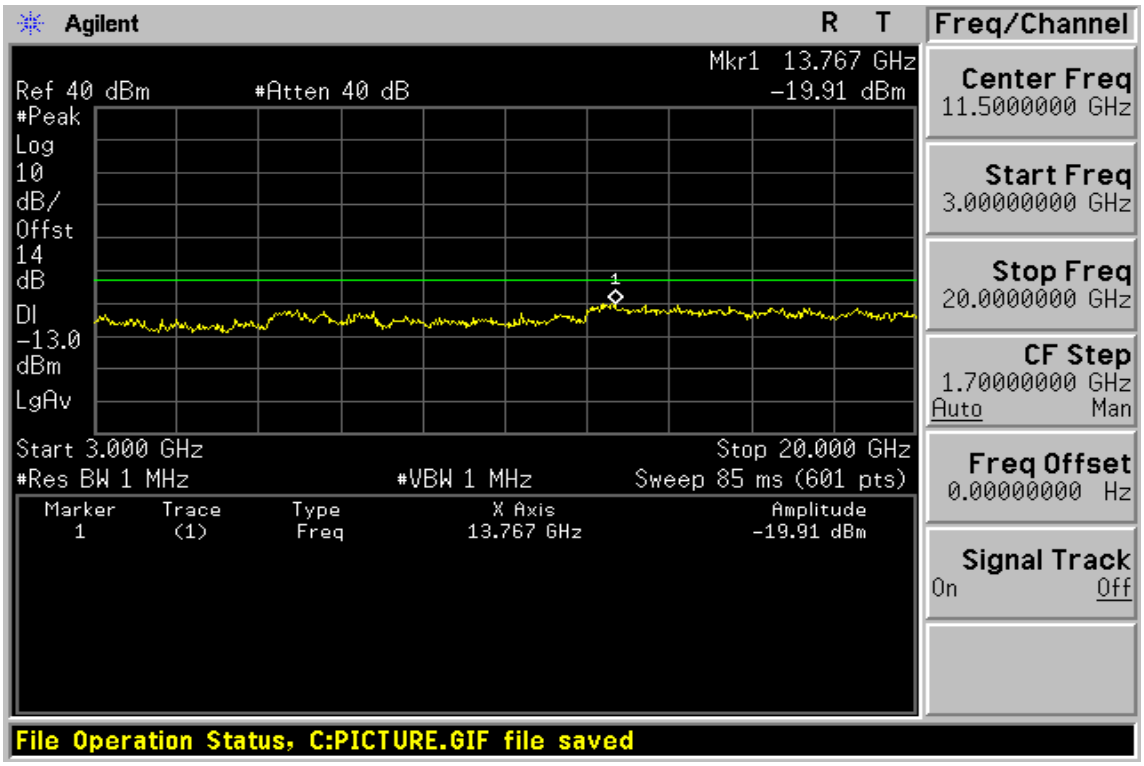




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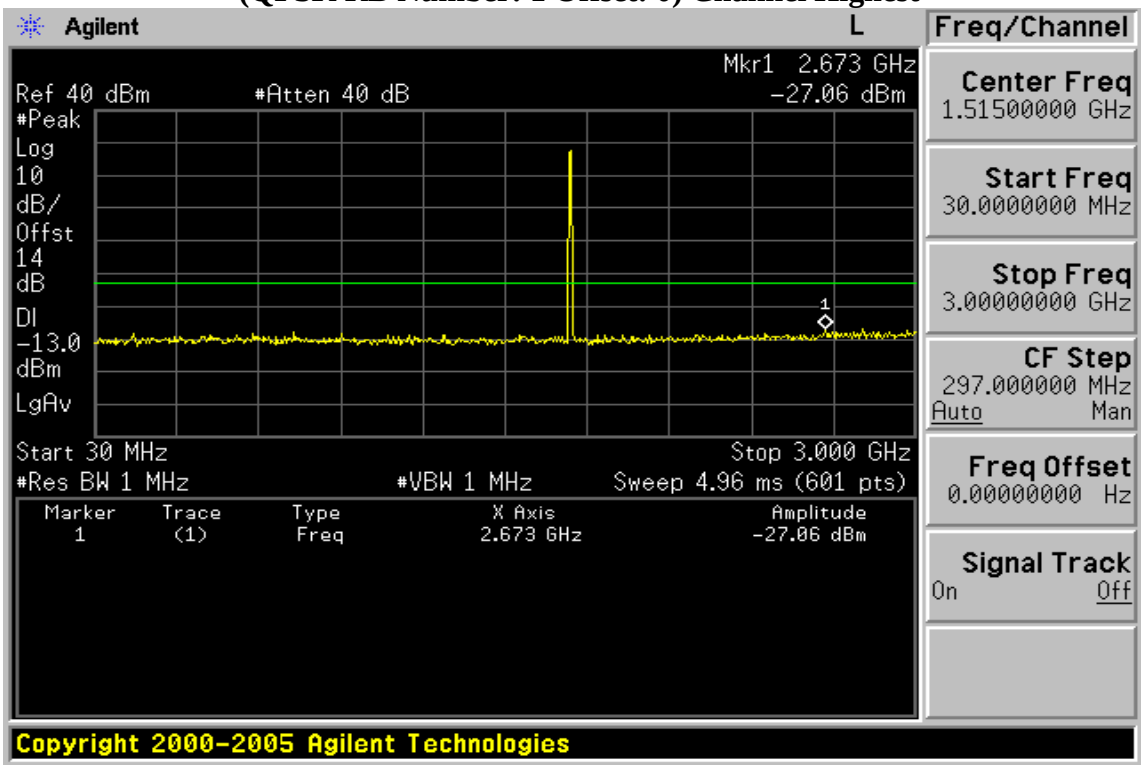
Figure 9-133: Out of Band emission at antenna terminals –5MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Mid

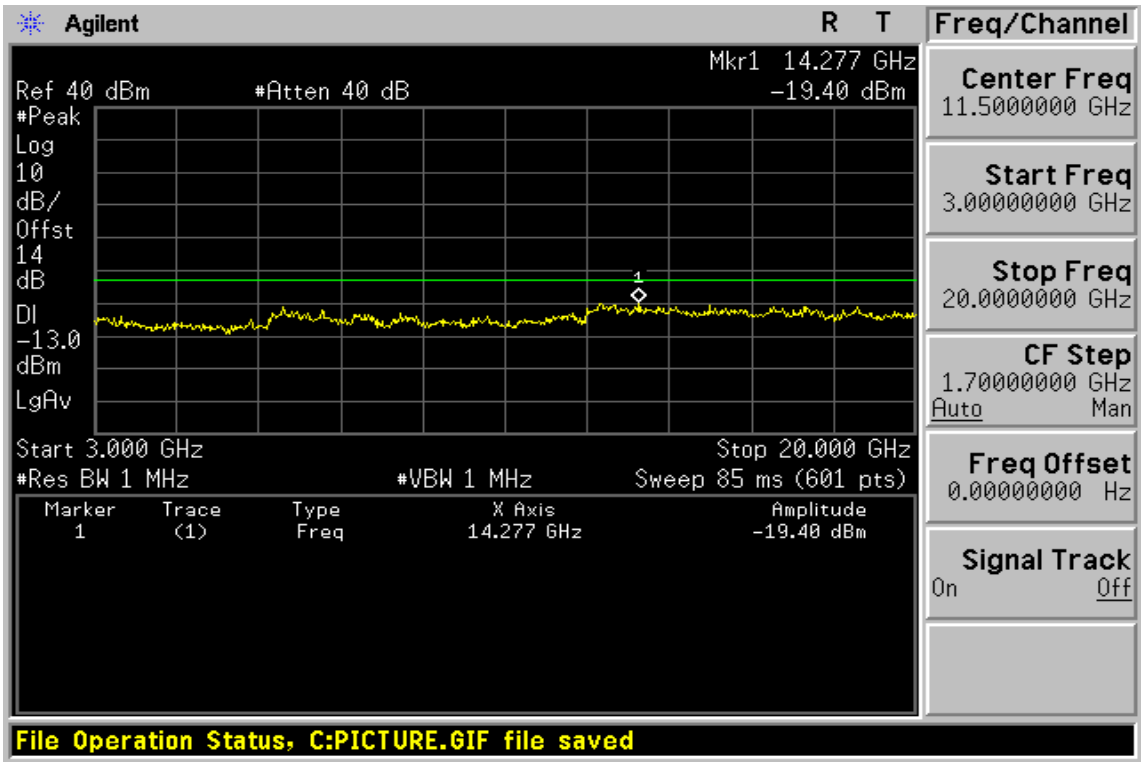




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Figure 9-134: Out of Band emission at antenna terminals–5MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Highest





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

(QPSK RB Number: 1 Offset: 0)

Fundamental Frequency :1712.5 MHz Engineer :Marcus
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	---
3425.00	H	---	-13.00	---
5137.50	H	---	-13.00	---
6850.00	H	---	-13.00	---
8562.50	H	---	-13.00	---
10275.00	H	---	-13.00	---
11987.50	H	---	-13.00	---
13568.00	S	-19.66	-13.00	6.66
13700.00	H	---	-13.00	---
15412.50	H	---	-13.00	---
17125.00	H	---	-13.00	---

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

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Fundamental Frequency :1732.5 MHz Engineer :Marcus
Operation Mode :TX Mid

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	H	---	-13.00	---
5197.50	H	---	-13.00	---
6930.00	H	---	-13.00	---
8662.50	H	---	-13.00	---
10395.00	H	---	-13.00	---
12127.50	H	---	-13.00	---
13767.00	S	-19.91	-13.00	6.91
13860.00	H	---	-13.00	---
15592.50	H	---	-13.00	---
17325.00	H	---	-13.00	---

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

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Fundamental Frequency :1752.5 MHz Engineer :Marcus
Operation Mode :TX High

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	H	---	-13.00	---
5257.50	H	---	-13.00	---
7010.00	H	---	-13.00	---
8762.50	H	---	-13.00	---
10515.00	H	---	-13.00	---
12267.50	H	---	-13.00	---
14020.00	H	---	-13.00	---
14227.00	S	-19.4	-13.00	6.40
15772.50	H	---	-13.00	---
17525.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
“” : denotes Spurious Freque

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Figure 9-135: Band edge emission at antenna terminals –5MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Lowest

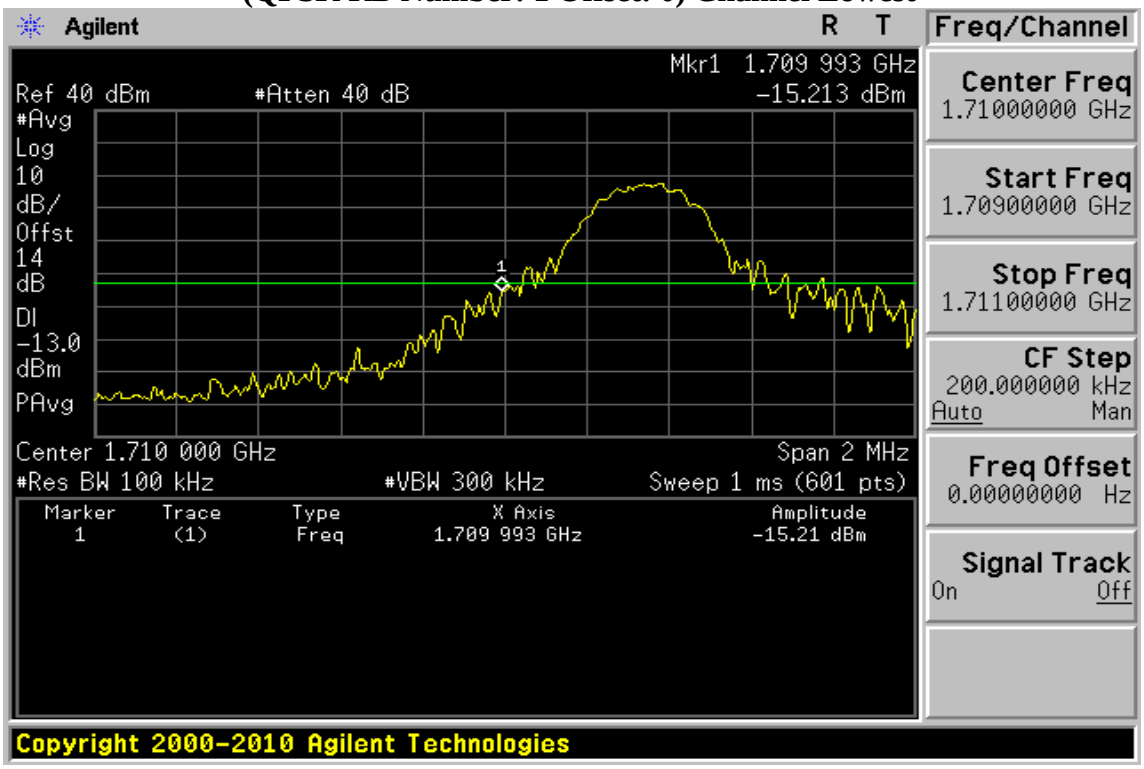
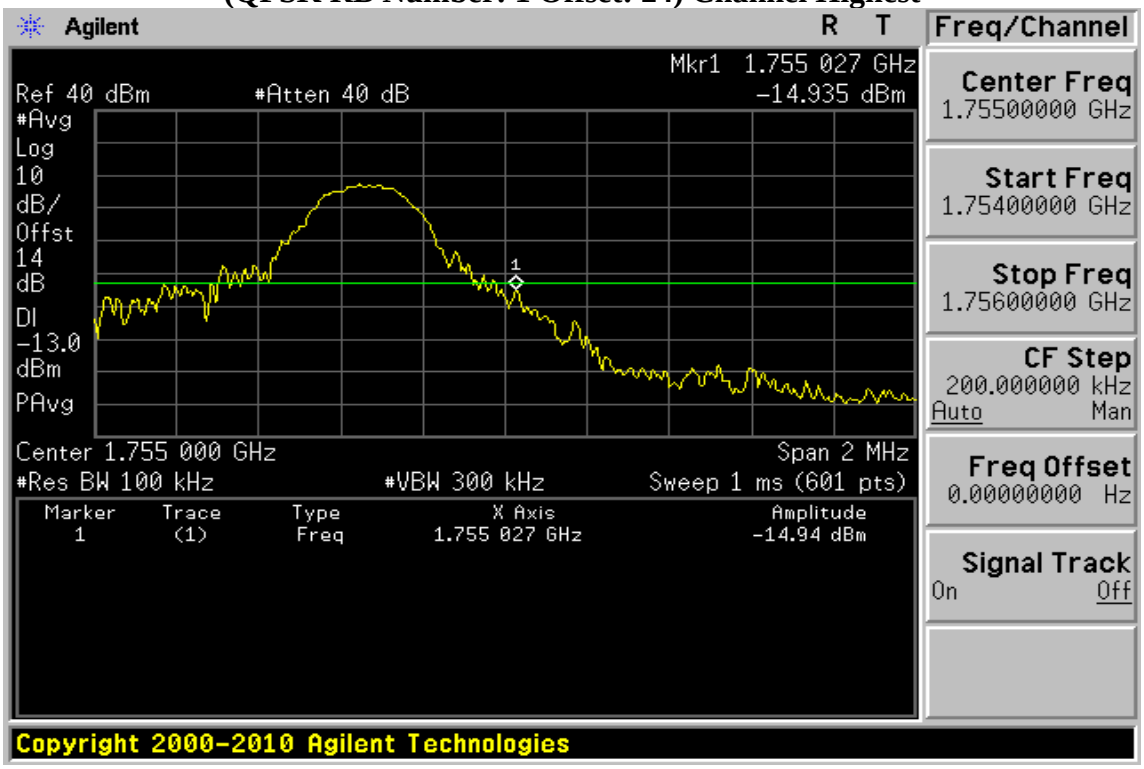


Figure 9-136: Band edge emission at antenna terminals –5MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 24) Channel Highest



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

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

Test Mode 5MHz BW LTE-Band 4 Engineer :Marcus

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1709.993	-15.21	-13.00	2.21
1755.027	-14.94	-13.00	1.94

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Figure 9-137: Band edge emission at antenna terminals –5MHz BW LTE-Band 4 (QPSK RB Number: 25 Offset: 0) Channel Lowest

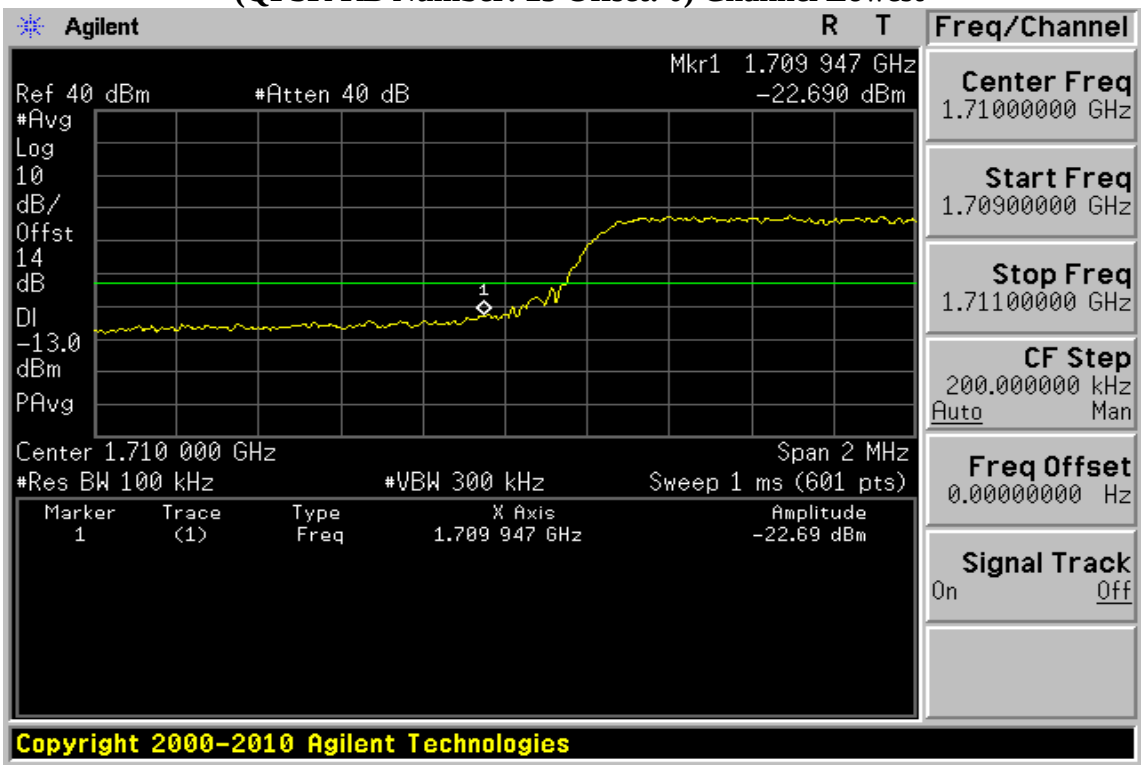
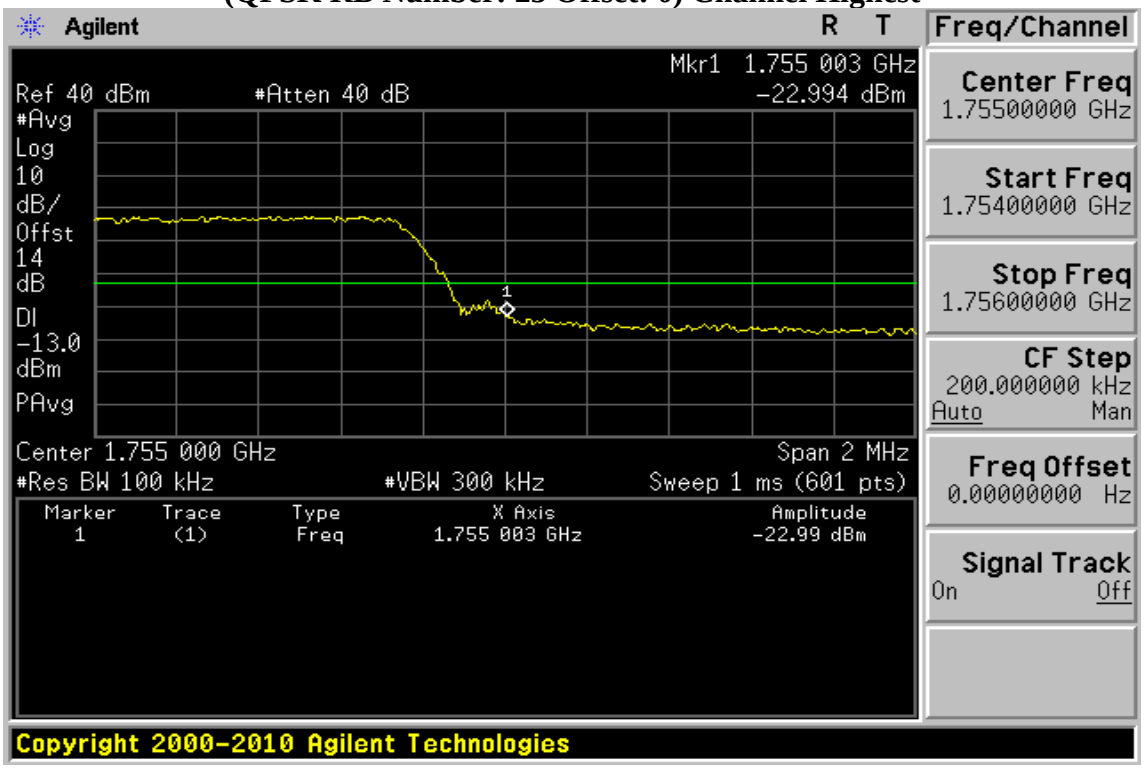


Figure 9-138: Band edge emission at antenna terminals –5MHz BW LTE-Band 4 (QPSK RB Number: 25 Offset: 0) Channel Highest



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

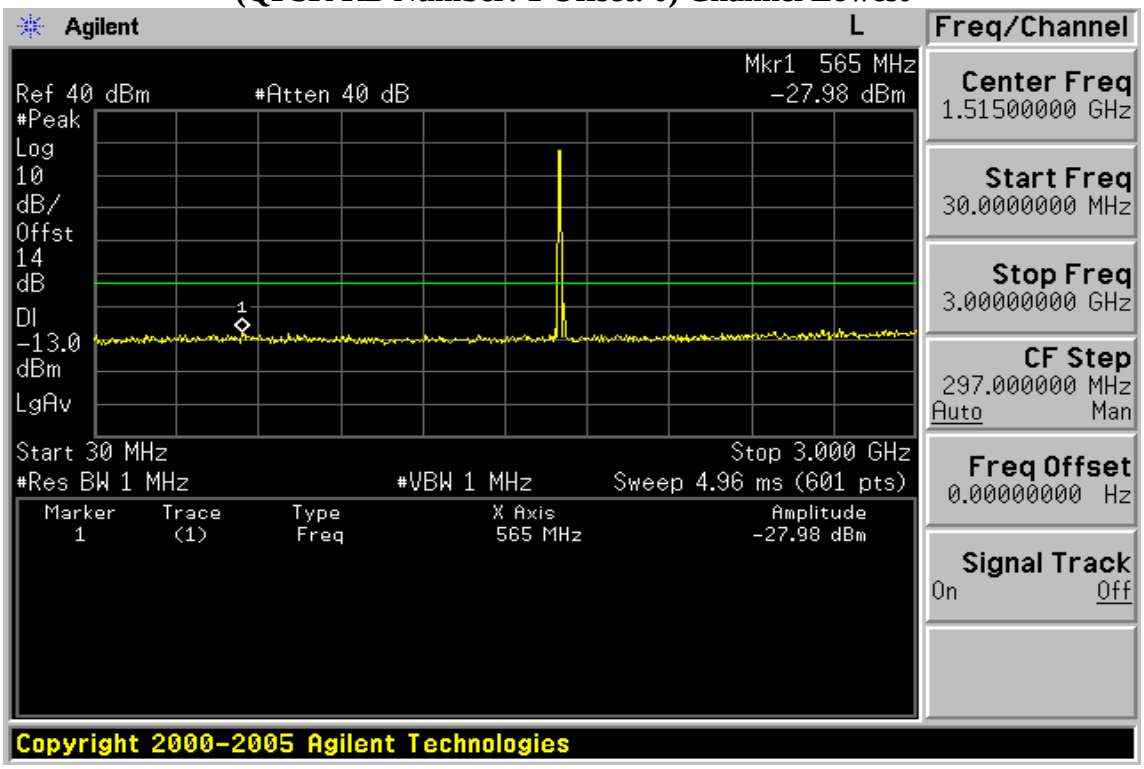
(QPSK RB Number: 25 Offset: 0)

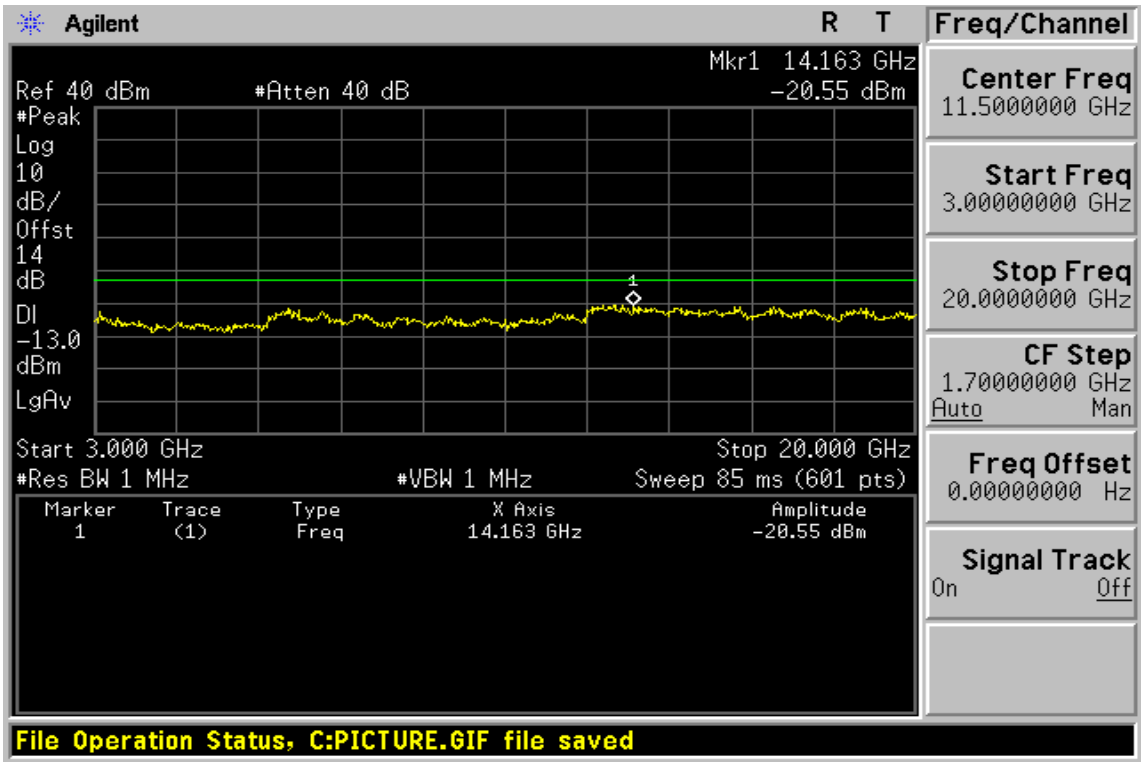
Test Mode 5MHz BW LTE-Band 4 Engineer :Marcus

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1709.947	-22.69	-13.00	9.69
1755.003	-22.99	-13.00	9.99

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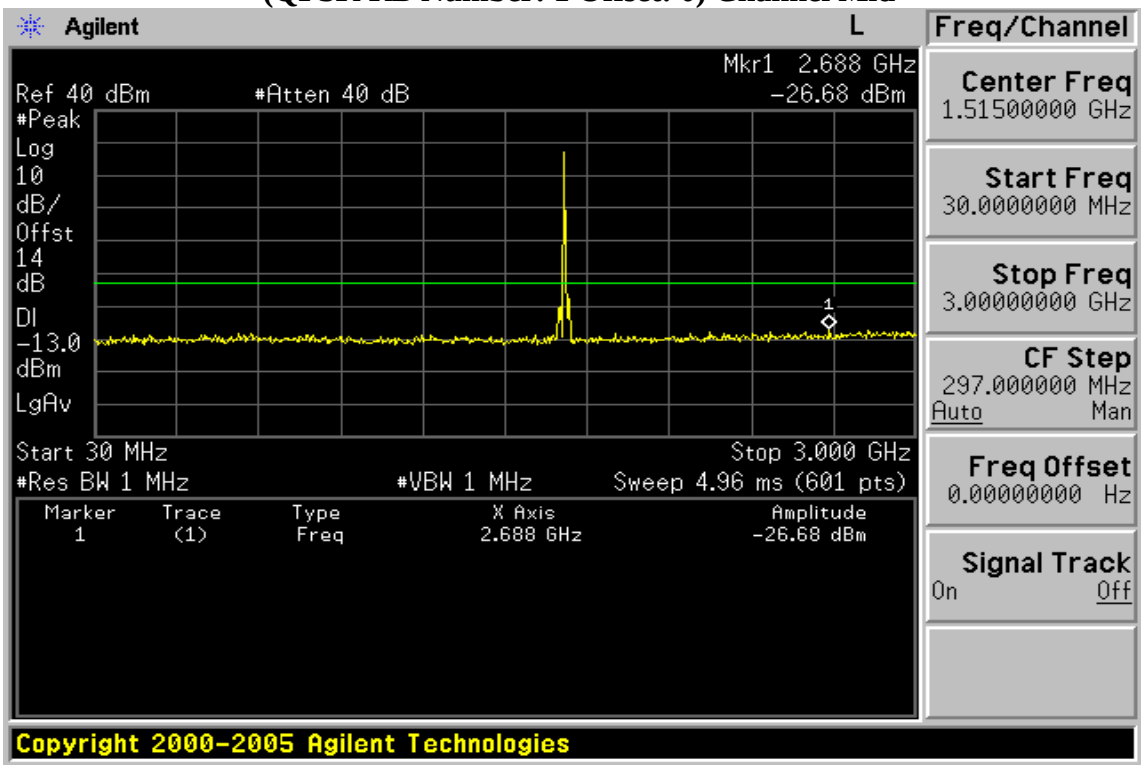
Figure 9-139: Out of Band emission at antenna terminals–10MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Lowest

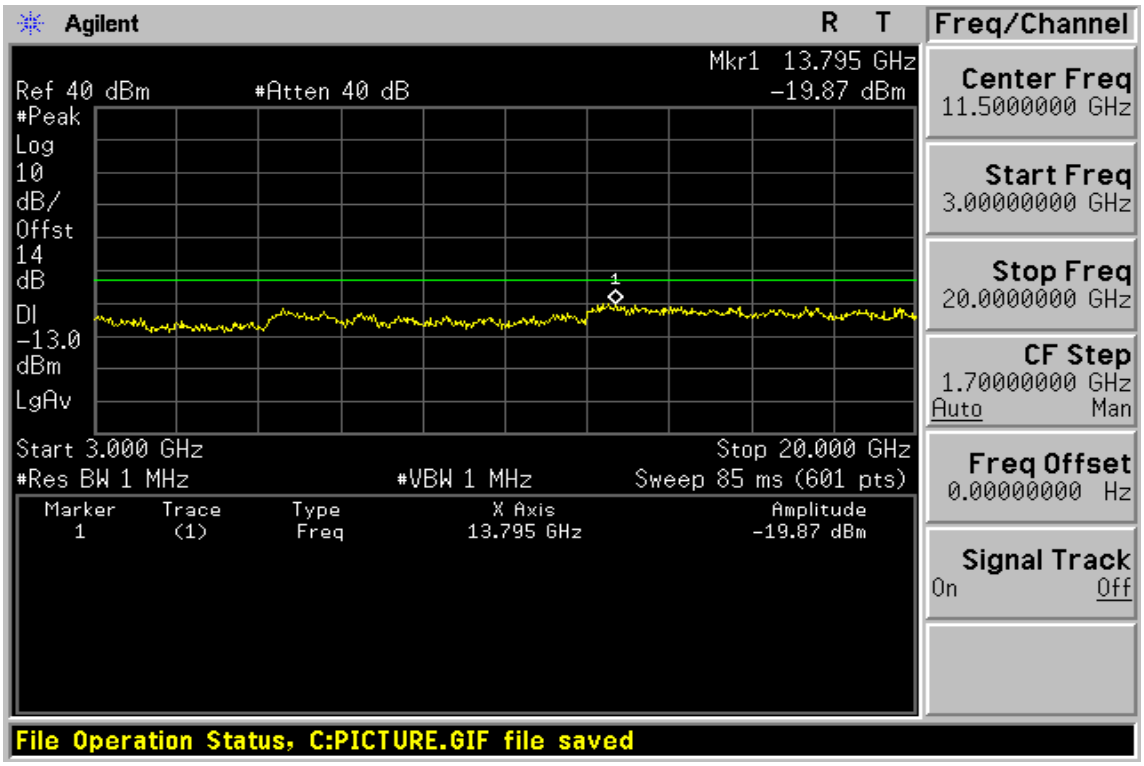




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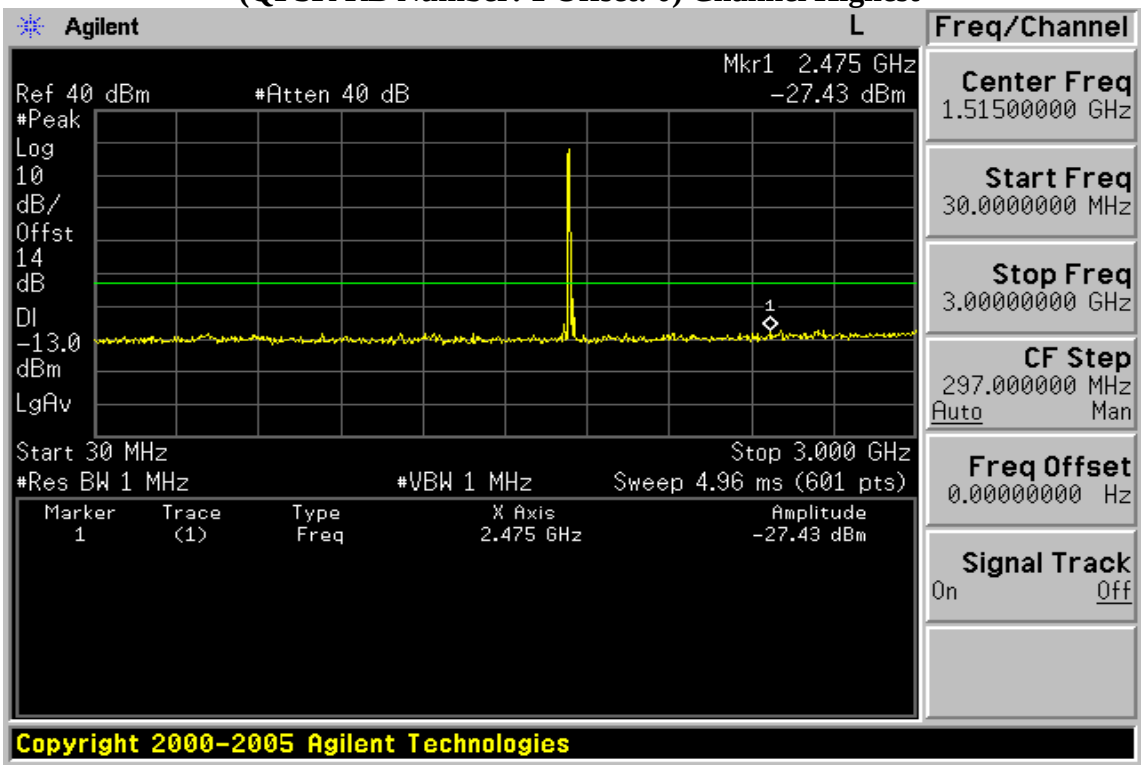
Figure 9-140: Out of Band emission at antenna terminals –10MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Mid

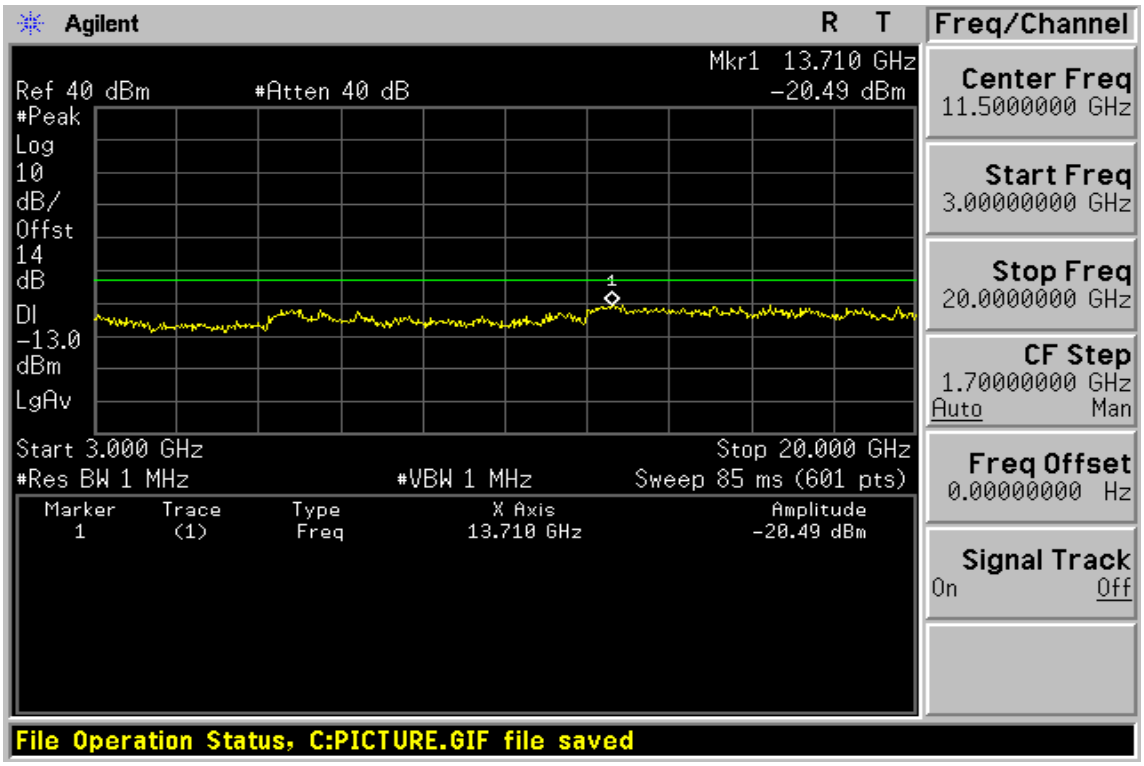




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Figure 9-141: Out of Band emission at antenna terminals–10MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Highest





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

(QPSK RB Number: 1 Offset: 0)

Fundamental Frequency :1715.0 MHz Engineer :Marcus
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	---
3430.00	H	---	-13.00	---
5145.00	H	---	-13.00	---
6860.00	H	---	-13.00	---
8575.00	H	---	-13.00	---
10290.00	H	---	-13.00	---
12005.00	H	---	-13.00	---
13720.00	H	---	-13.00	---
14163.00	S	-20.55	-13.00	7.55
15435.00	H	---	-13.00	---
17150.00	H	---	-13.00	---

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

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Fundamental Frequency :1732.5 MHz Engineer :Marcus
Operation Mode :TX Mid

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	H	---	-13.00	---
5197.50	H	---	-13.00	---
6930.00	H	---	-13.00	---
8662.50	H	---	-13.00	---
10395.00	H	---	-13.00	---
12127.50	H	---	-13.00	---
13795.00	S	-19.87	-13.00	6.87
13860.00	H	---	-13.00	---
15592.50	H	---	-13.00	---
17325.00	H	---	-13.00	---

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

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Fundamental Frequency :1750.0MHz Engineer :Marcus
Operation Mode :TX High

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	H	---	-13.00	---
5250.00	H	---	-13.00	---
7000.00	H	---	-13.00	---
8750.00	H	---	-13.00	---
10500.00	H	---	-13.00	---
12250.00	H	---	-13.00	---
13710.00	S	-20.49	-13.00	7.49
14000.00	H	---	-13.00	---
15750.00	H	---	-13.00	---
17500.00	H	---	-13.00	---

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

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Figure 9-142: Band edge emission at antenna terminals –10MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Lowest

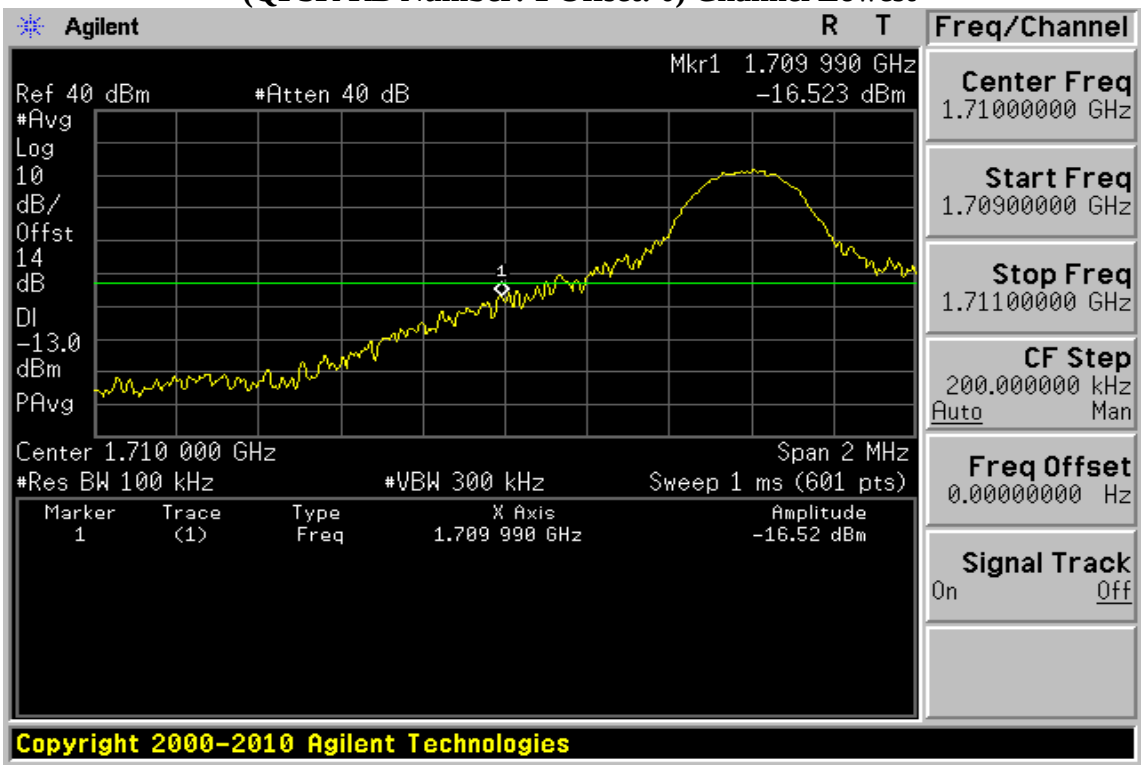
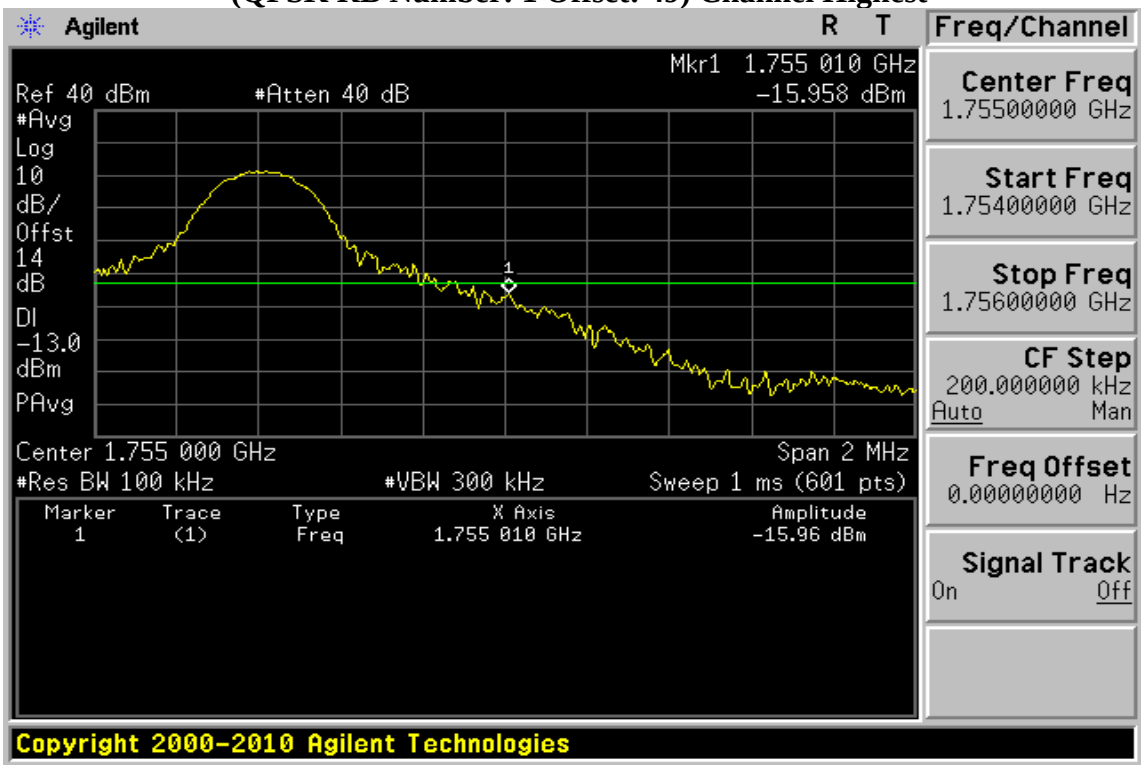


Figure 9-143: Band edge emission at antenna terminals –10MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 49) Channel Highest



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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

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1709.990	-16.52	-13.00	3.52
1755.010	-15.96	-13.00	2.96

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Figure 9-144: Band edge emission at antenna terminals –10MHz BW LTE-Band 4 (QPSK RB Number: 50 Offset: 0) Channel Lowest

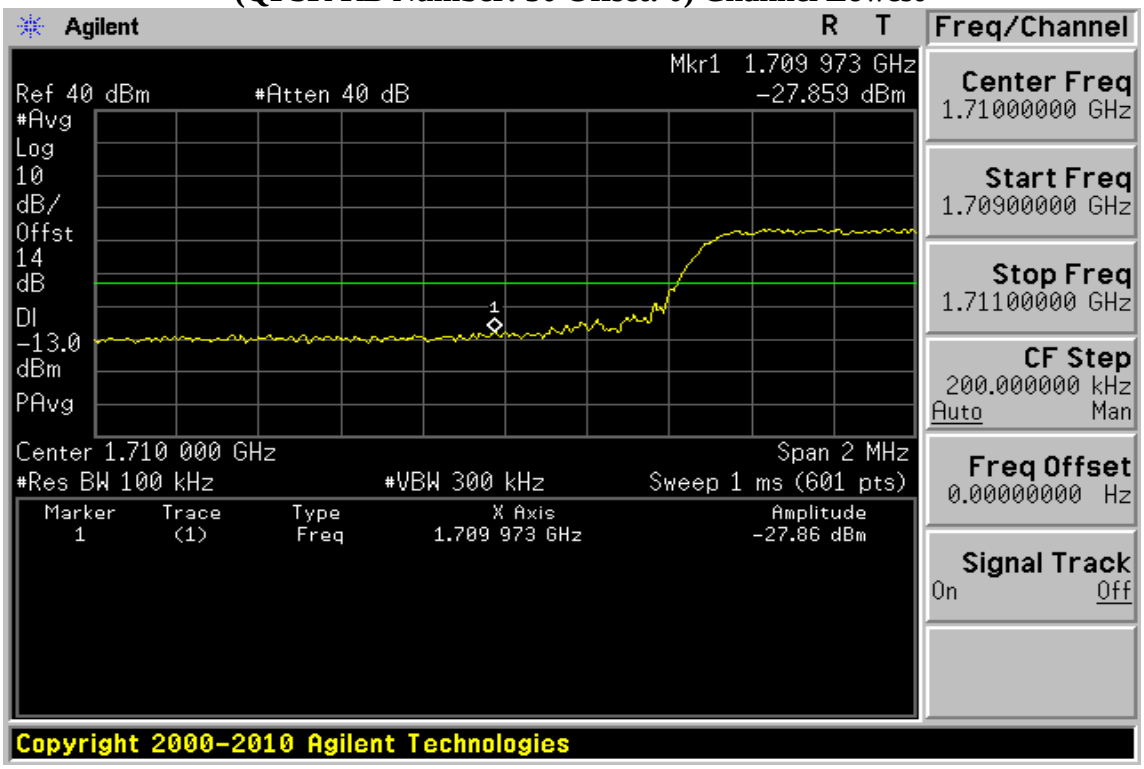
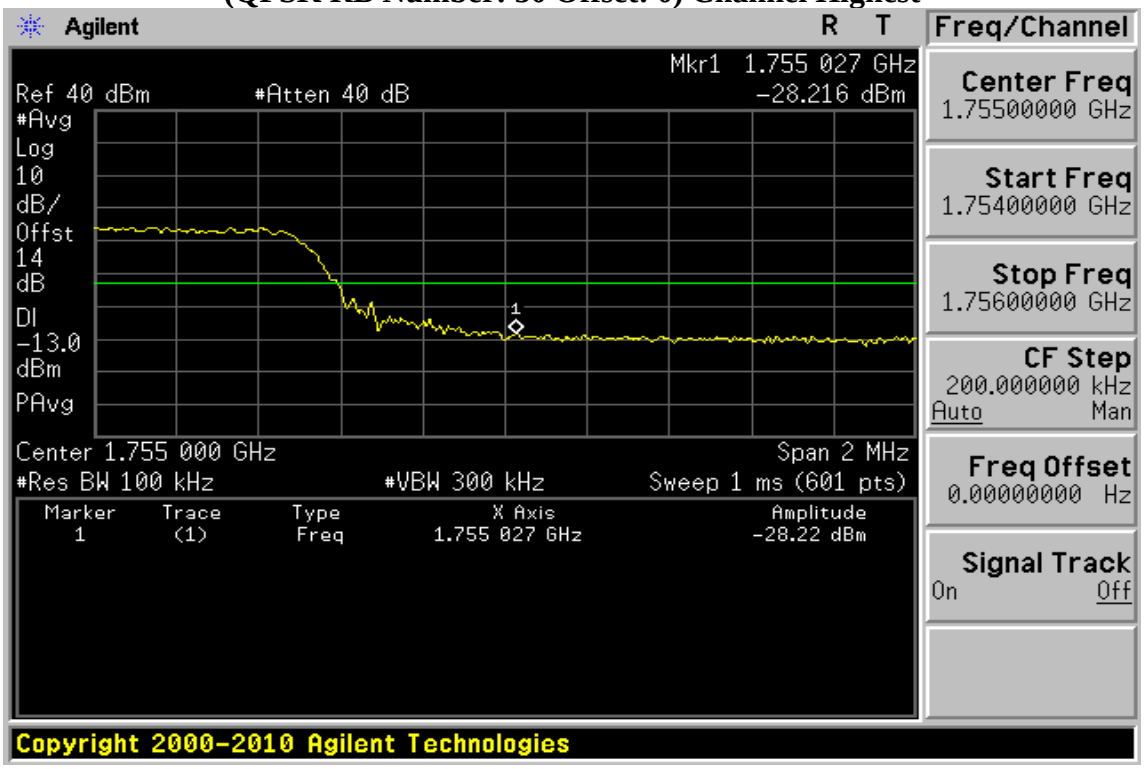


Figure 9-145: Band edge emission at antenna terminals –10MHz BW LTE-Band 4 (QPSK RB Number: 50 Offset: 0) Channel Highest



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

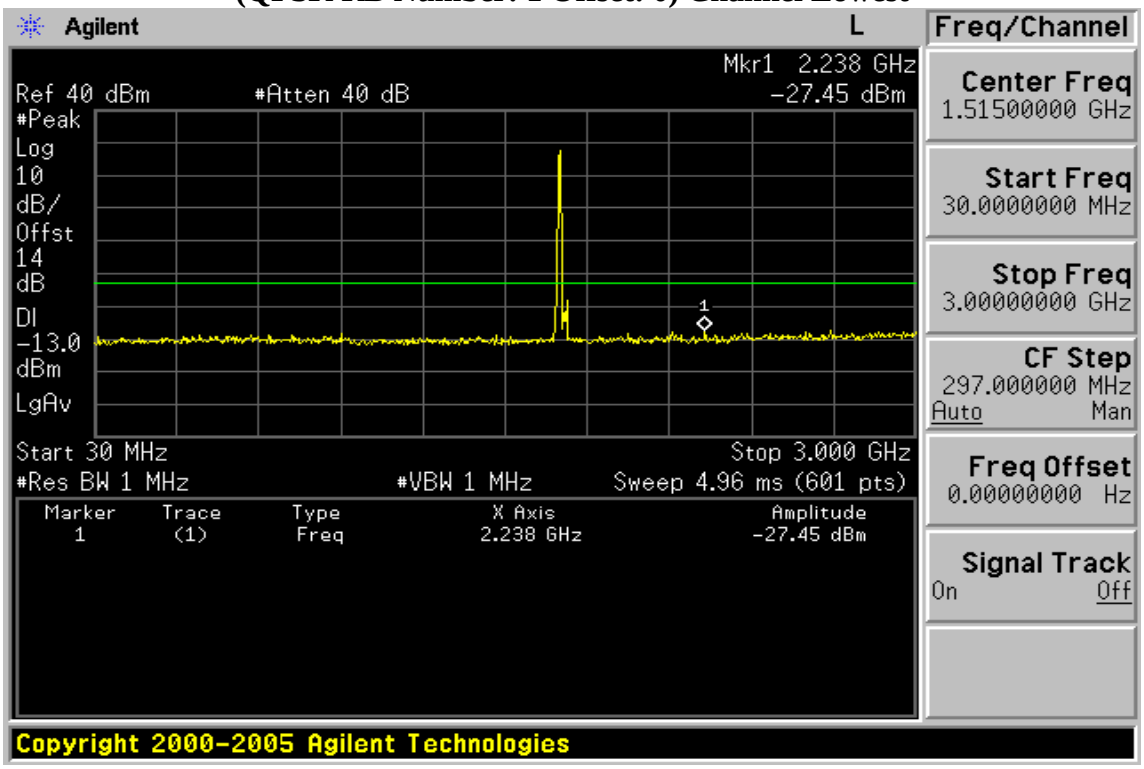
(QPSK RB Number: 50 Offset: 0)

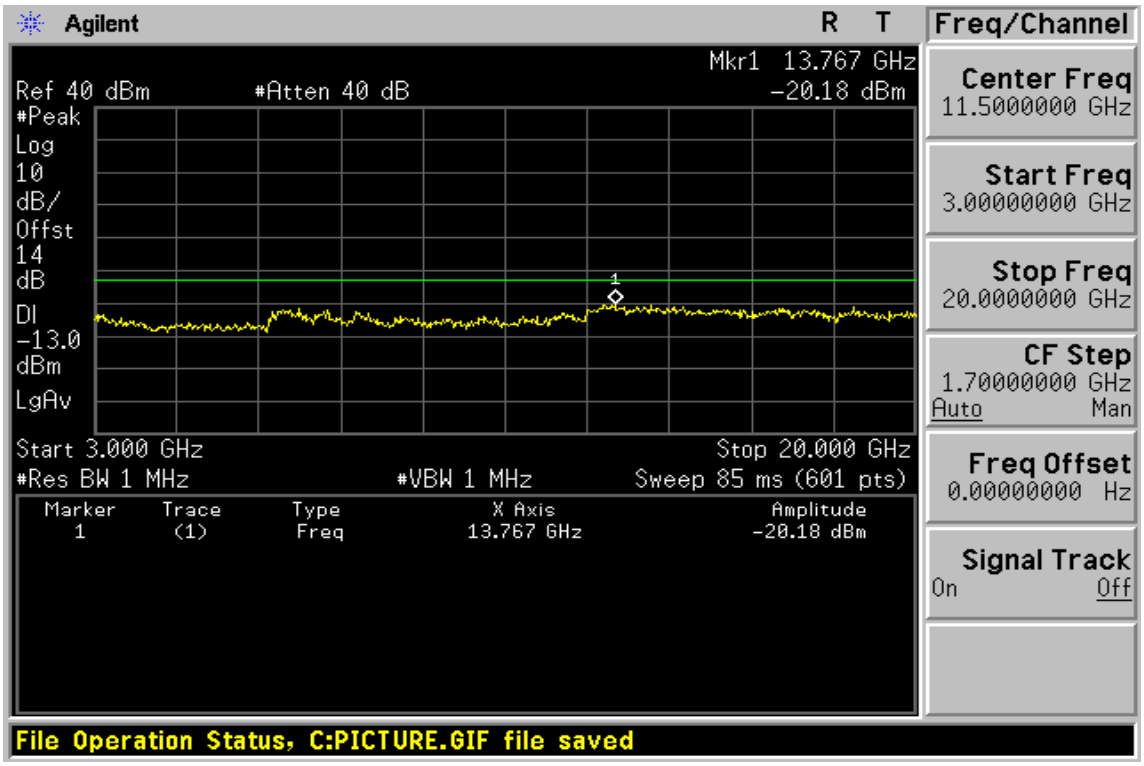
Test Mode 10MHz BW LTE-Band 4 Engineer :Marcus

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1709.973	-27.86	-13.00	14.86
1755.027	-28.22	-13.00	15.22

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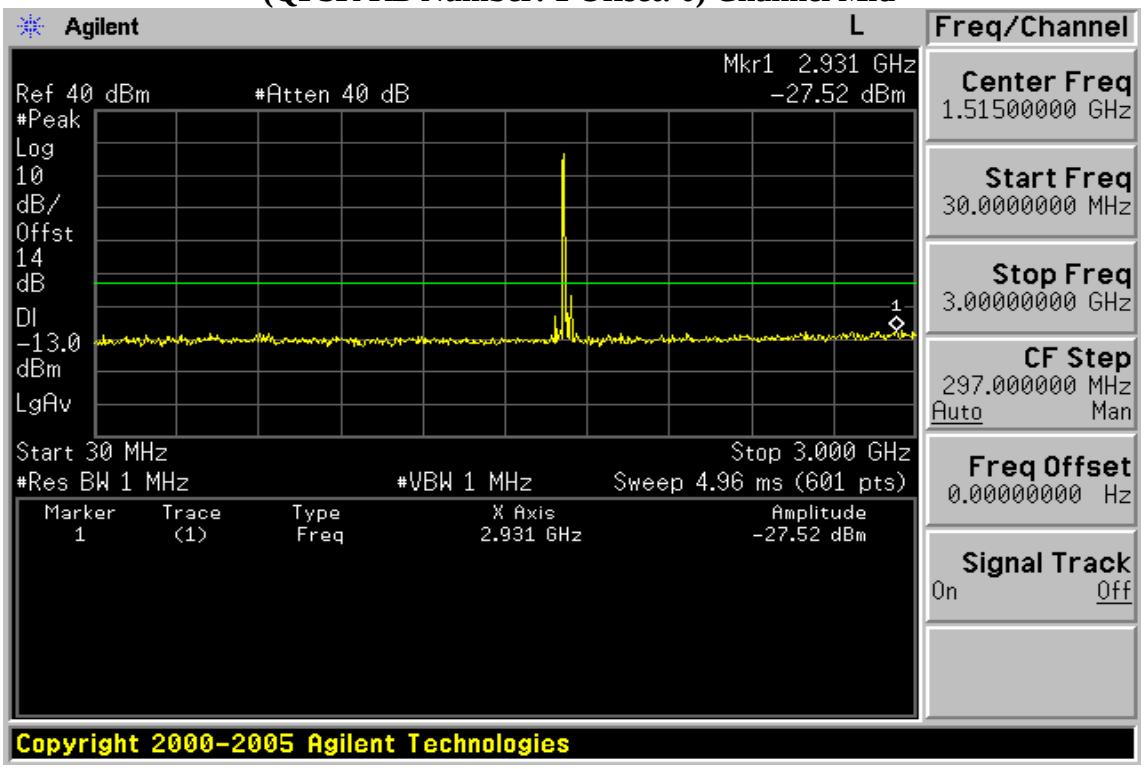
Figure 9-146: Out of Band emission at antenna terminals–15MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Lowest

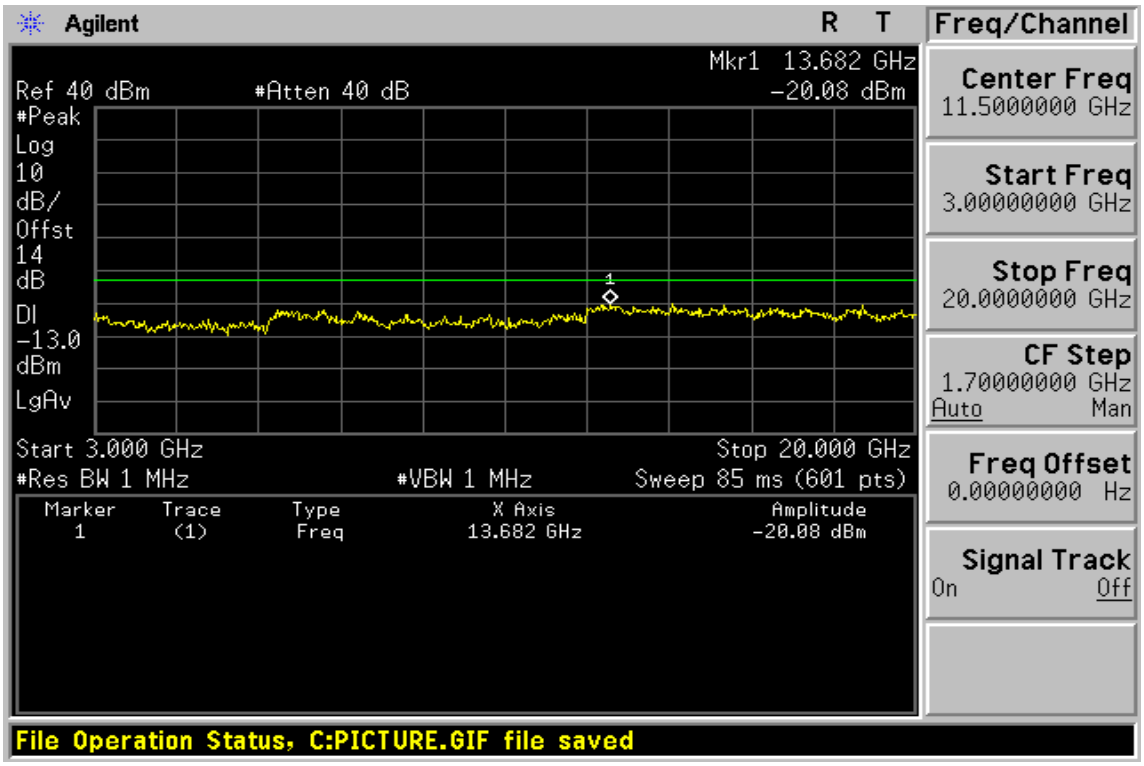




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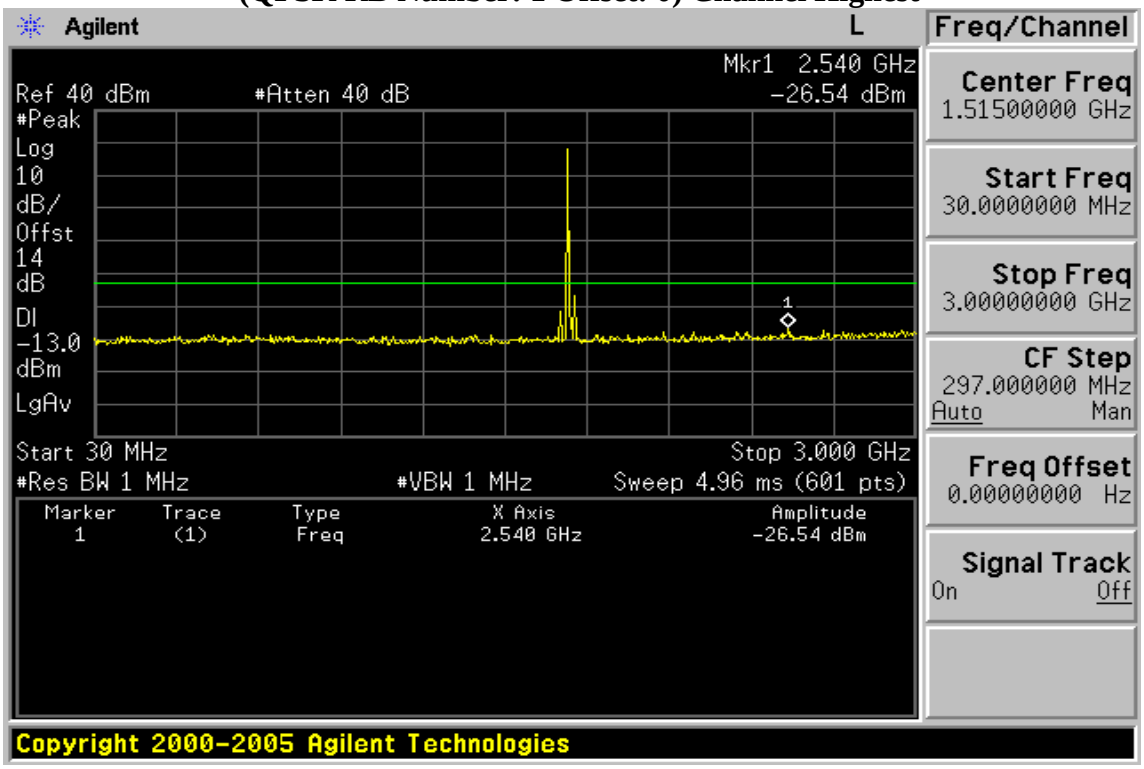
Figure 9-147: Out of Band emission at antenna terminals –15MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Mid

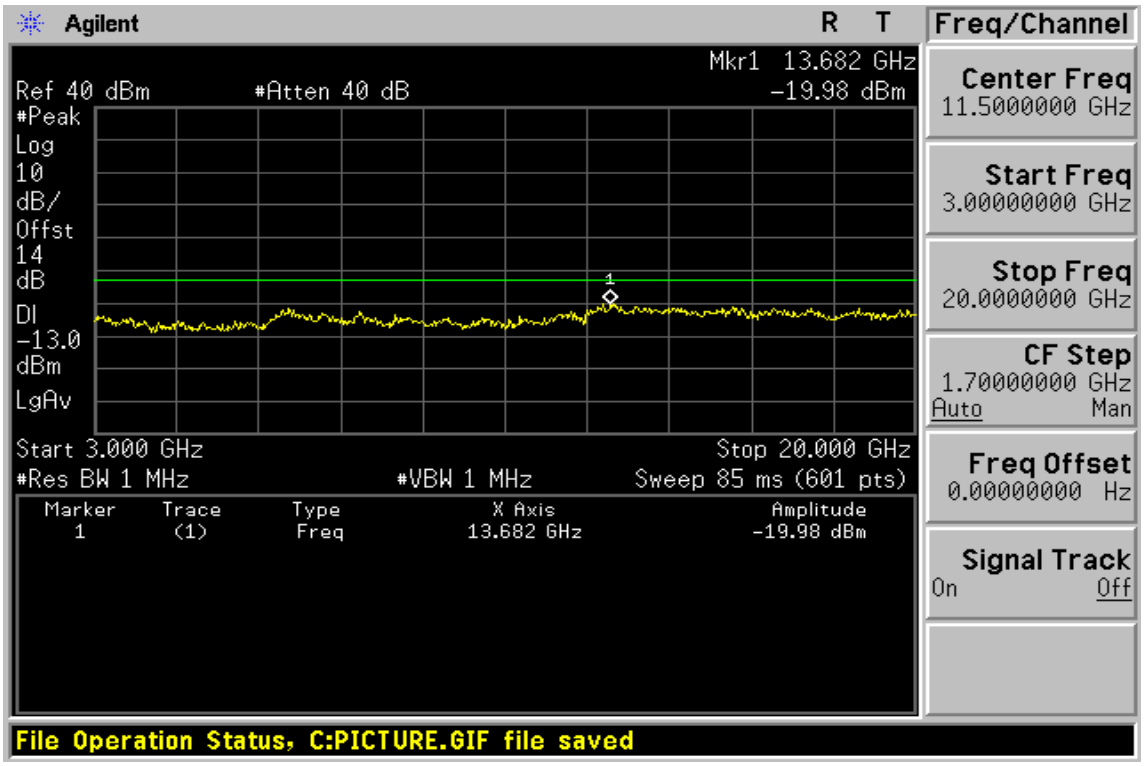




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Figure 9-148: Out of Band emission at antenna terminals–15MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Highest





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

(QPSK RB Number: 1 Offset: 0)

Fundamental Frequency :1717.5 MHz Engineer :Marcus
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	---
3435.00	H	---	-13.00	---
5152.50	H	---	-13.00	---
6870.00	H	---	-13.00	---
8587.50	H	---	-13.00	---
10305.00	H	---	-13.00	---
12022.50	H	---	-13.00	---
13740.00	H	---	-13.00	---
13767.00	S	-20.18	-13.00	7.18
15457.50	H	---	-13.00	---
17175.00	H	---	-13.00	---

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

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Fundamental Frequency :1732.5 MHz Engineer :Marcus
Operation Mode :TX Mid

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	H	---	-13.00	---
5197.50	H	---	-13.00	---
6930.00	H	---	-13.00	---
8662.50	H	---	-13.00	---
10395.00	H	---	-13.00	---
12127.50	H	---	-13.00	---
13682.00	S	-20.08	-13.00	7.08
13860.00	H	---	-13.00	---
15592.50	H	---	-13.00	---
17325.00	H	---	-13.00	---

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

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Fundamental Frequency :1747.5MHz Engineer :Marcus
Operation Mode :TX High

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	H	---	-13.00	---
5242.50	H	---	-13.00	---
6990.00	H	---	-13.00	---
8737.50	H	---	-13.00	---
10485.00	H	---	-13.00	---
12232.50	H	---	-13.00	---
13682.00	S	-19.98	-13.00	6.98
13980.00	H	---	-13.00	---
15727.50	H	---	-13.00	---
17475.00	H	---	-13.00	---

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

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Figure 9-149: Band edge emission at antenna terminals –15MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Lowest

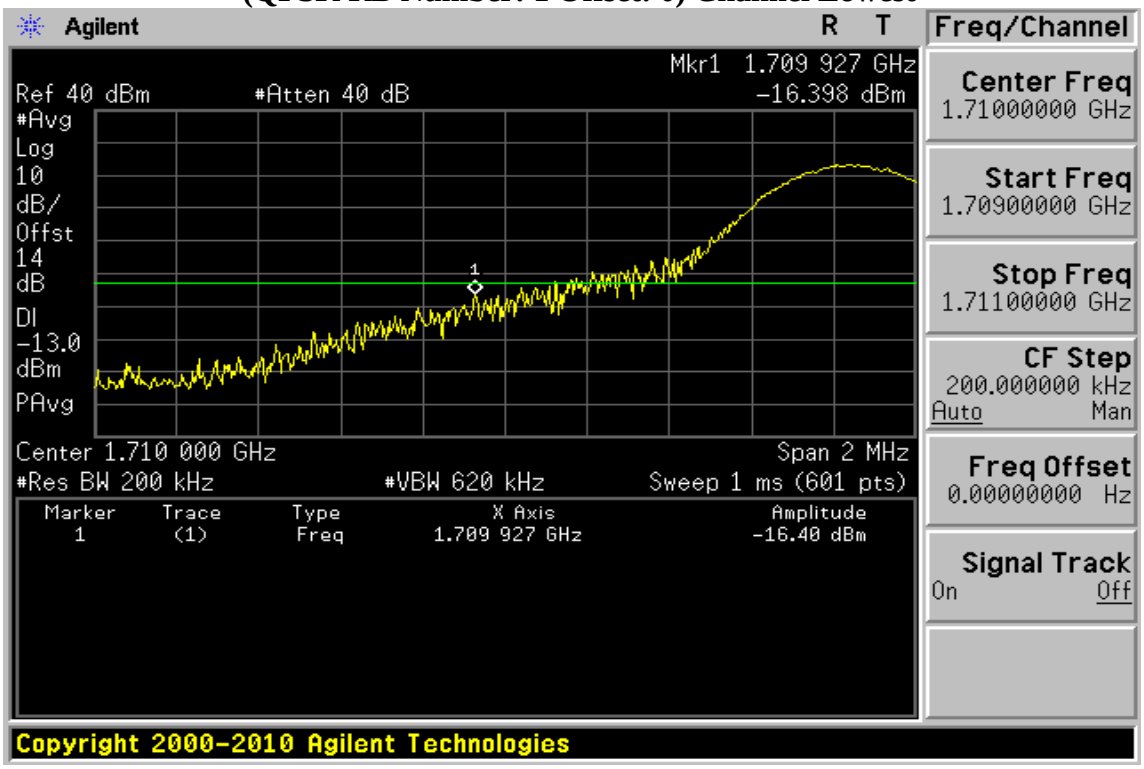
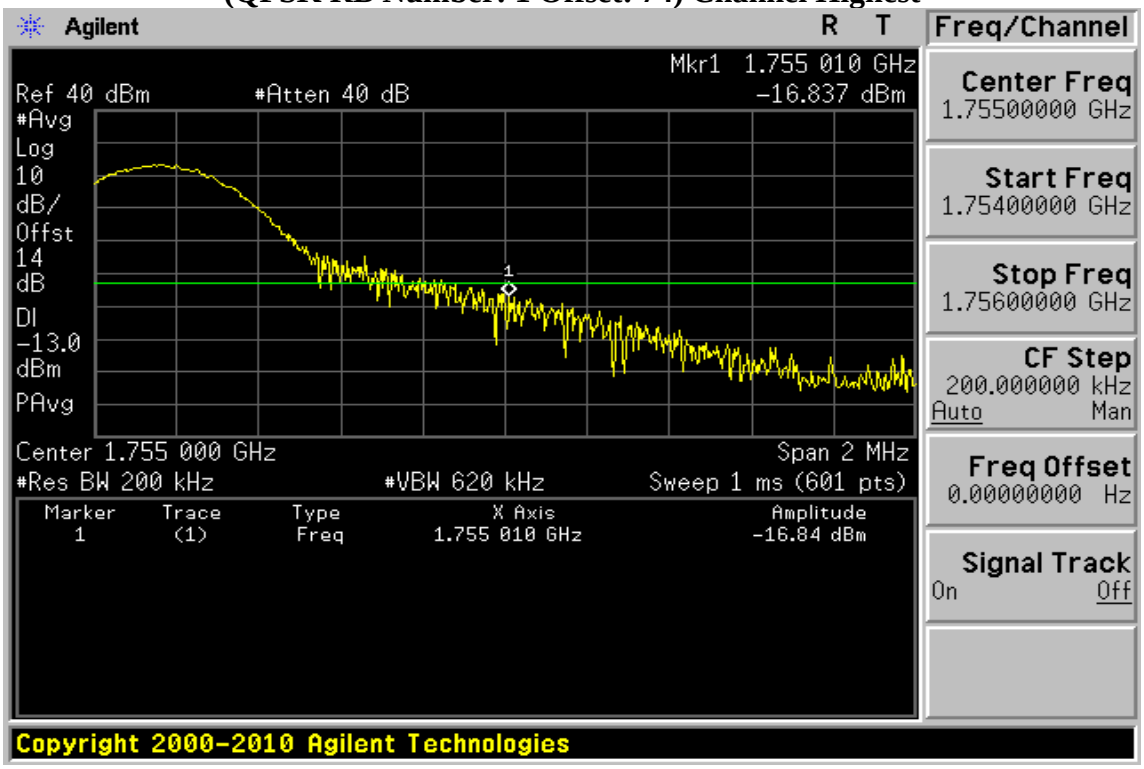


Figure 9-150: Band edge emission at antenna terminals –15MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 74) Channel Highest



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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

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

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Figure 9-151: Band edge emission at antenna terminals –15MHz BW LTE-Band 4 (QPSK RB Number: 75 Offset: 0) Channel Lowest

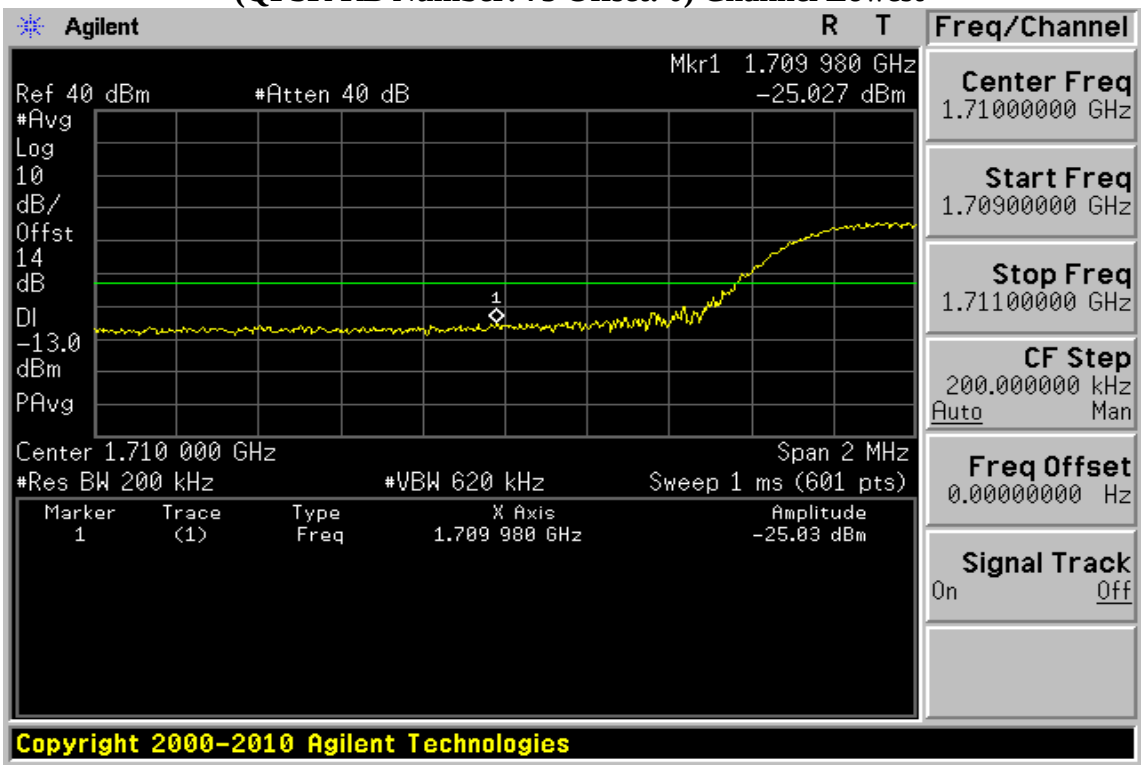
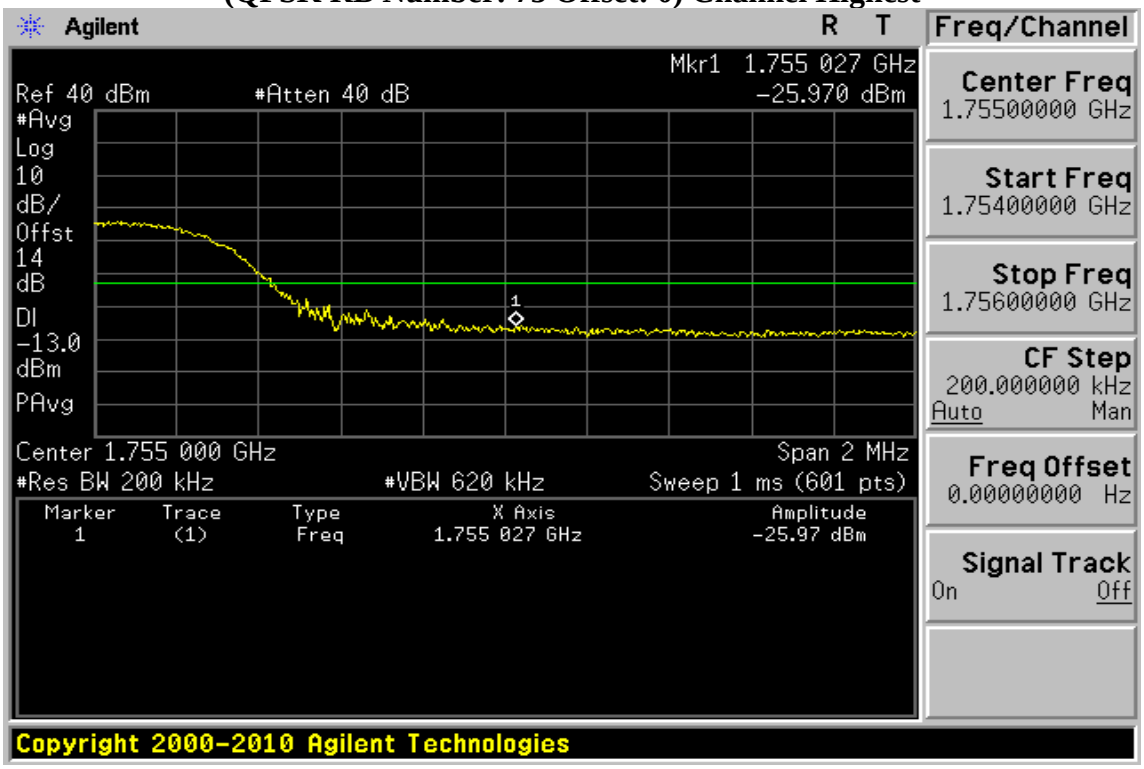


Figure 9-152: Band edge emission at antenna terminals –15MHz BW LTE-Band 4 (QPSK RB Number: 75 Offset: 0) Channel Highest



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

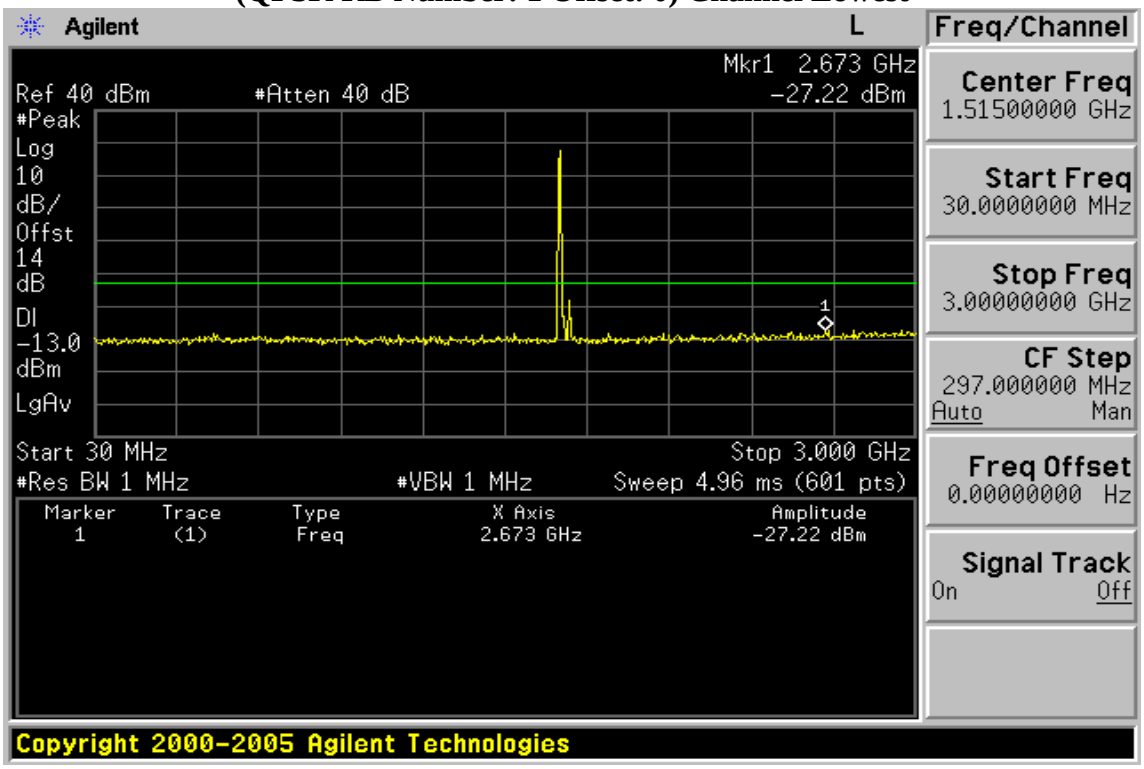
(QPSK RB Number: 75 Offset: 0)

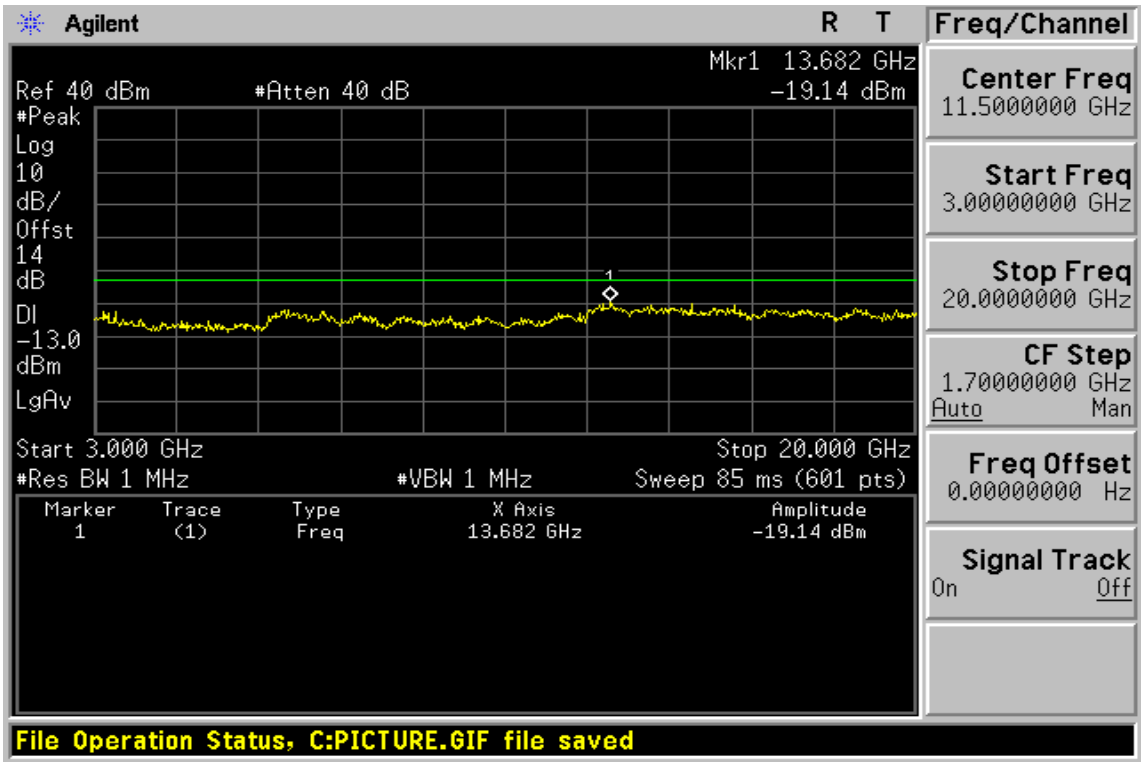
Test Mode 15MHz BW LTE-Band 4 Engineer :Marcus

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1709.980	-25.03	-13.00	12.03
1755.027	-25.97	-13.00	12.97

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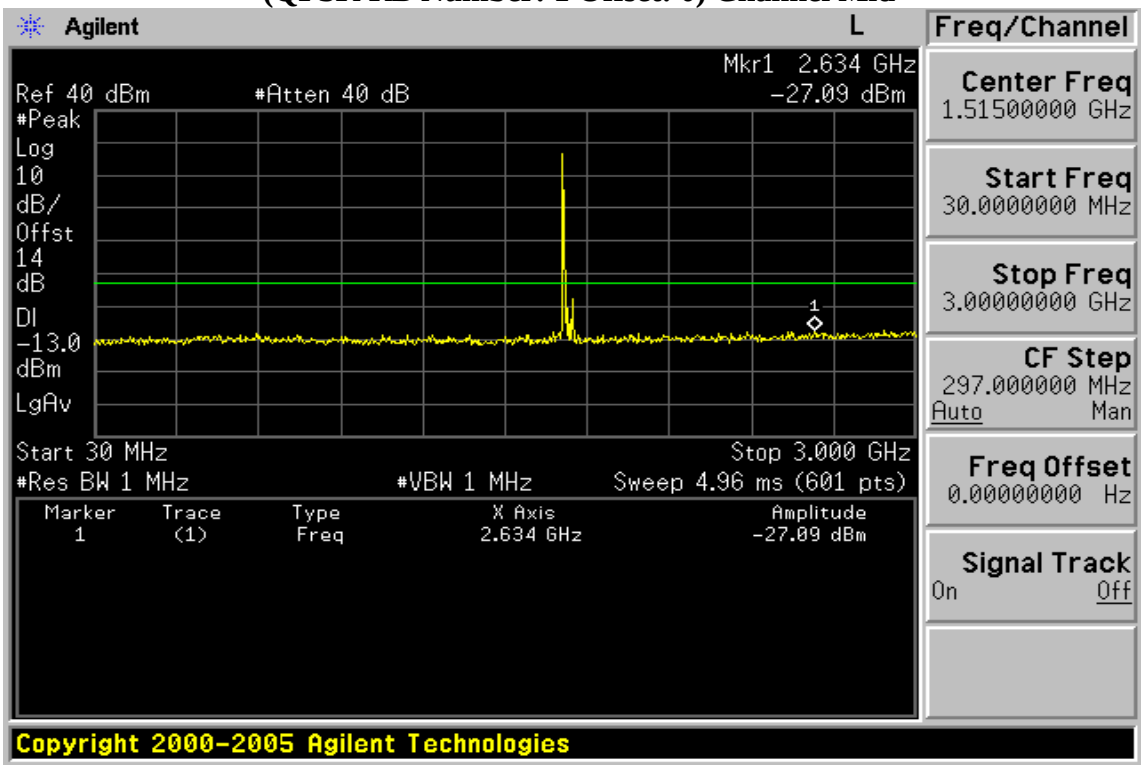
Figure 9-153: Out of Band emission at antenna terminals–20MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Lowest

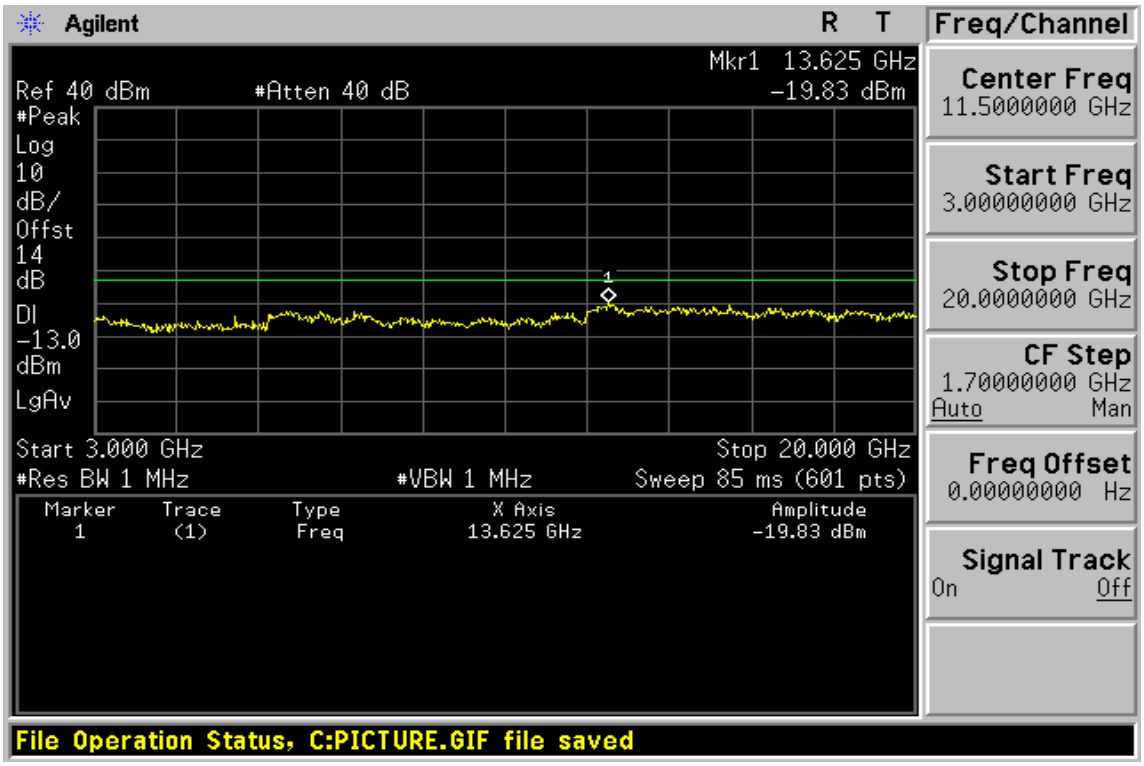




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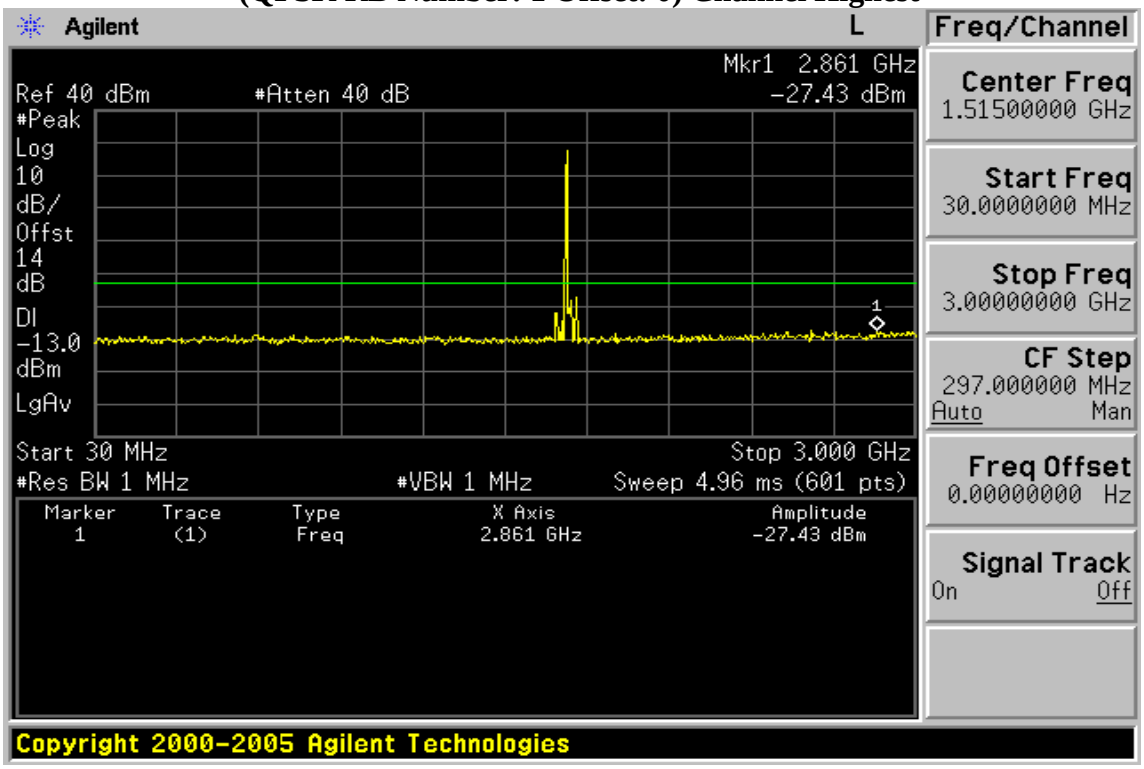
Figure 9-154: Out of Band emission at antenna terminals –20MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Mid

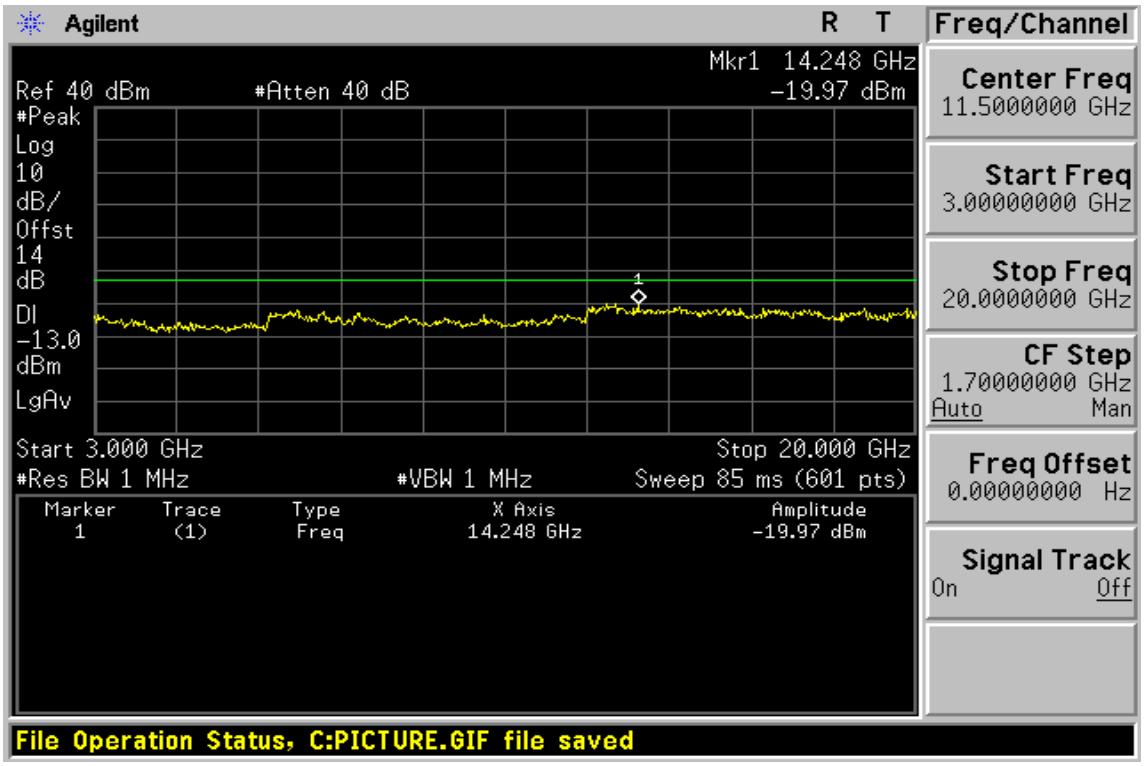




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Figure 9-155: Out of Band emission at antenna terminals–20MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Highest





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

(QPSK RB Number: 1 Offset: 0)

Fundamental Frequency :1720.0 MHz Engineer :Marcus
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	---
3440.00	H	---	-13.00	---
5160.00	H	---	-13.00	---
6880.00	H	---	-13.00	---
8600.00	H	---	-13.00	---
10320.00	H	---	-13.00	---
12040.00	H	---	-13.00	---
13682.00	S	-19.14	-13.00	6.14
13760.00	H	---	-13.00	---
15480.00	H	---	-13.00	---
17200.00	H	---	-13.00	---

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

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Fundamental Frequency :1732.5 MHz Engineer :Marcus
Operation Mode :TX Mid

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	H	---	-13.00	---
5197.50	H	---	-13.00	---
6930.00	H	---	-13.00	---
8662.50	H	---	-13.00	---
10395.00	H	---	-13.00	---
12127.50	H	---	-13.00	---
13625.00	S	-19.83	-13.00	6.83
13860.00	H	---	-13.00	---
15592.50	H	---	-13.00	---
17325.00	H	---	-13.00	---

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

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Fundamental Frequency :1745MHz Engineer :Marcus
Operation Mode :TX High

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	H	---	-13.00	---
5235.00	H	---	-13.00	---
6980.00	H	---	-13.00	---
8725.00	H	---	-13.00	---
10470.00	H	---	-13.00	---
12215.00	H	---	-13.00	---
13960.00	H	---	-13.00	---
14248.00	S	-19.97	-13.00	6.97
15705.00	H	---	-13.00	---
17450.00	H	---	-13.00	---

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

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Figure 9-156: Band edge emission at antenna terminals –20MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Lowest

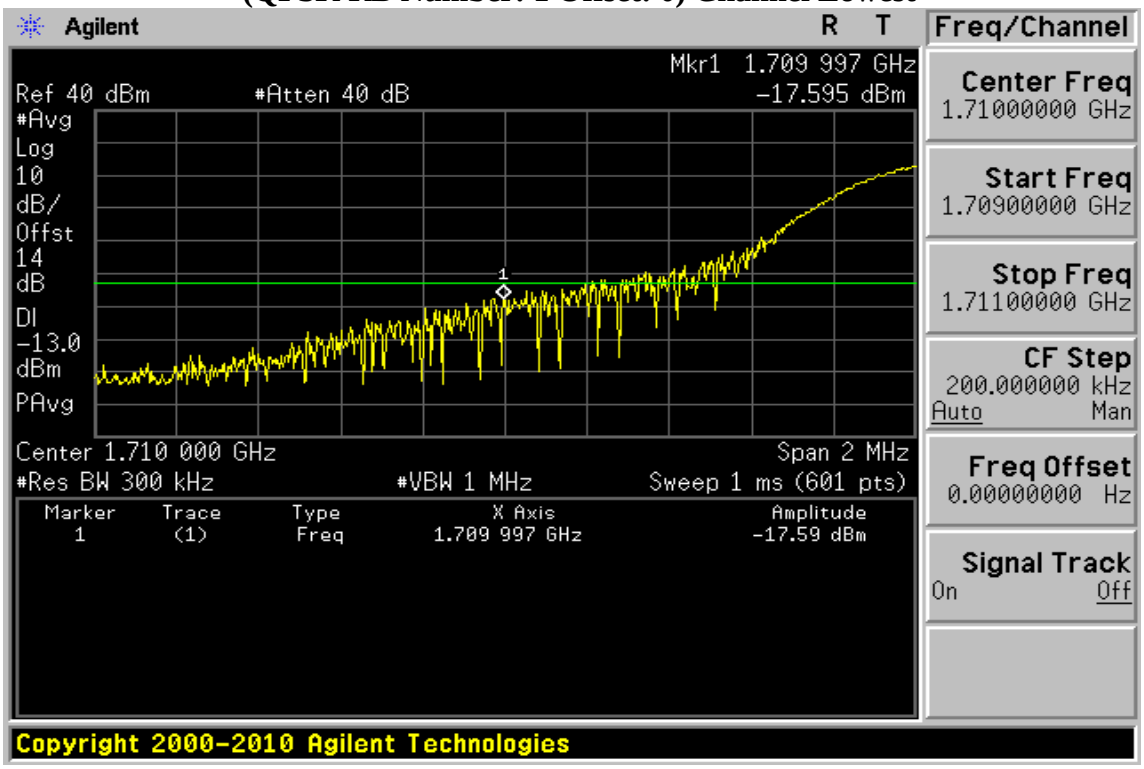
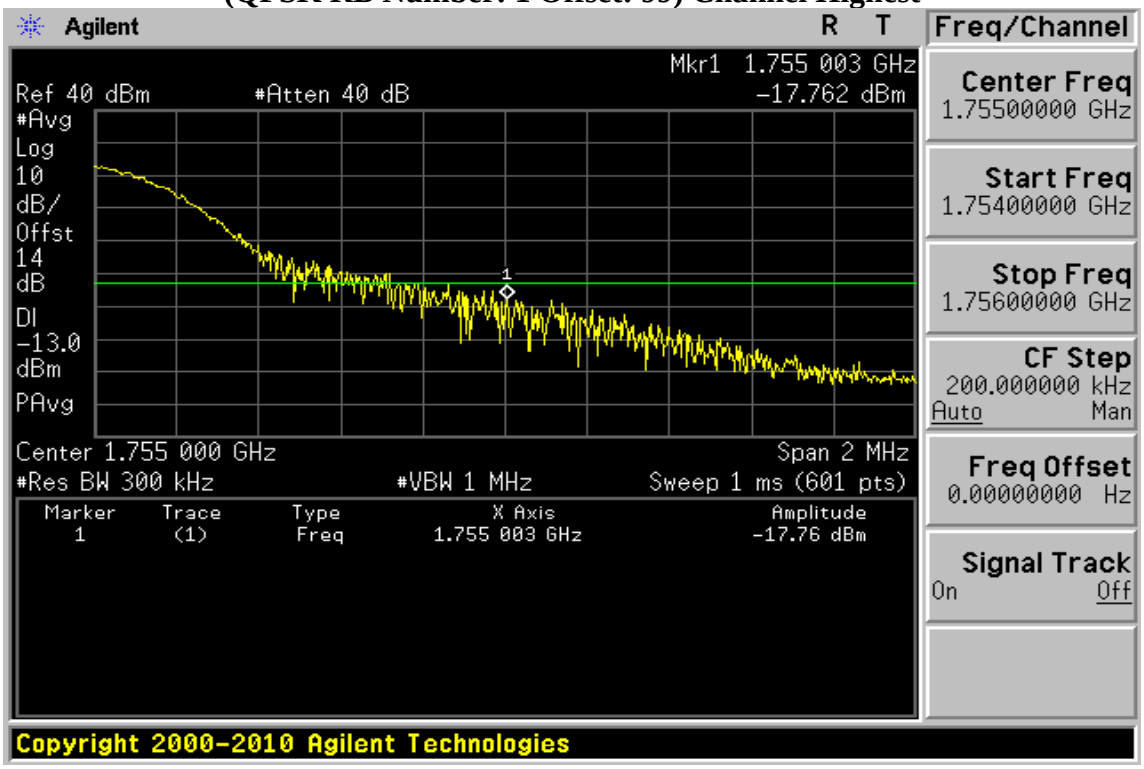


Figure 9-157: Band edge emission at antenna terminals –20MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 99) Channel Highest



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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 Mode 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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Figure 9-158: Band edge emission at antenna terminals –20MHz BW LTE-Band 4 (QPSK RB Number: 100 Offset: 0) Channel Lowest

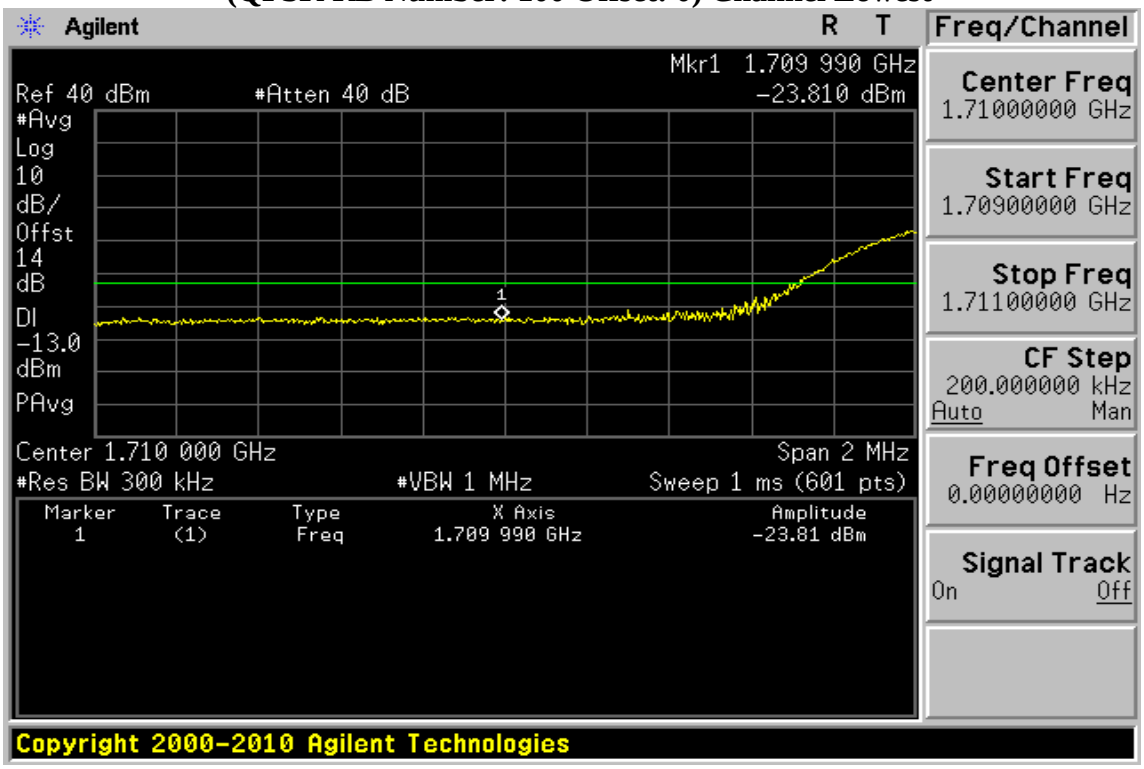
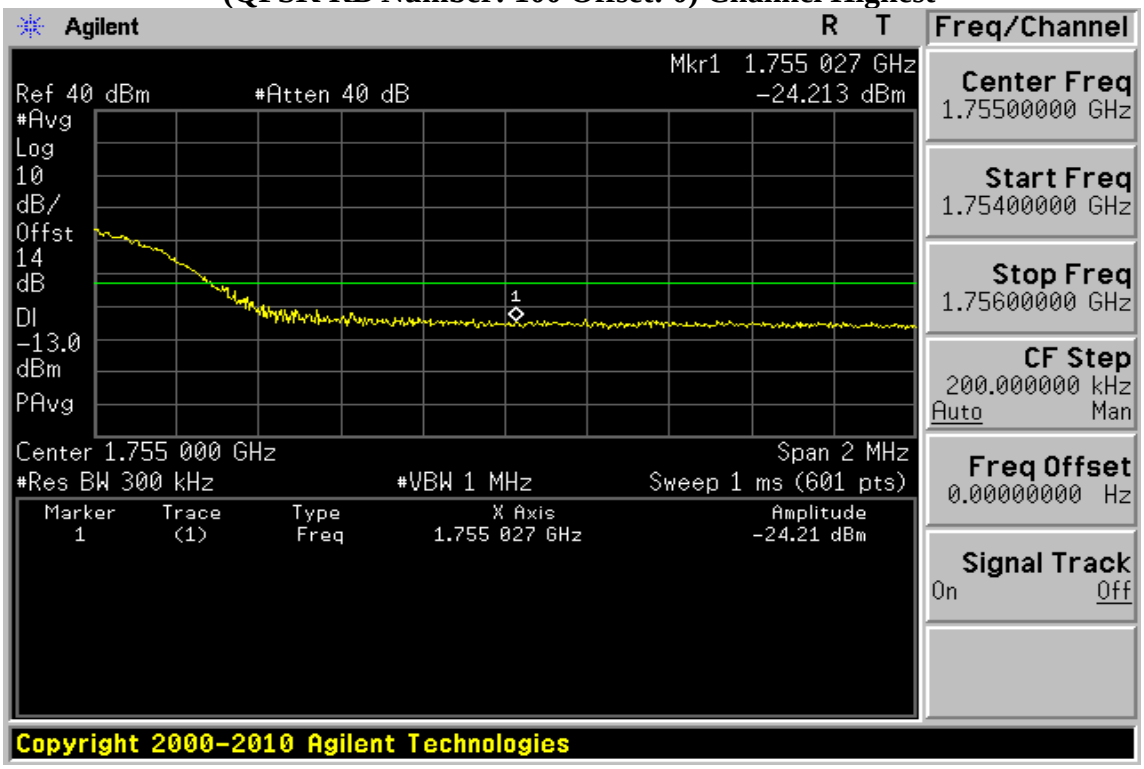


Figure 9-159: Band edge emission at antenna terminals –20MHz BW LTE-Band 4 (QPSK RB Number: 100 Offset: 0) Channel Highest



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

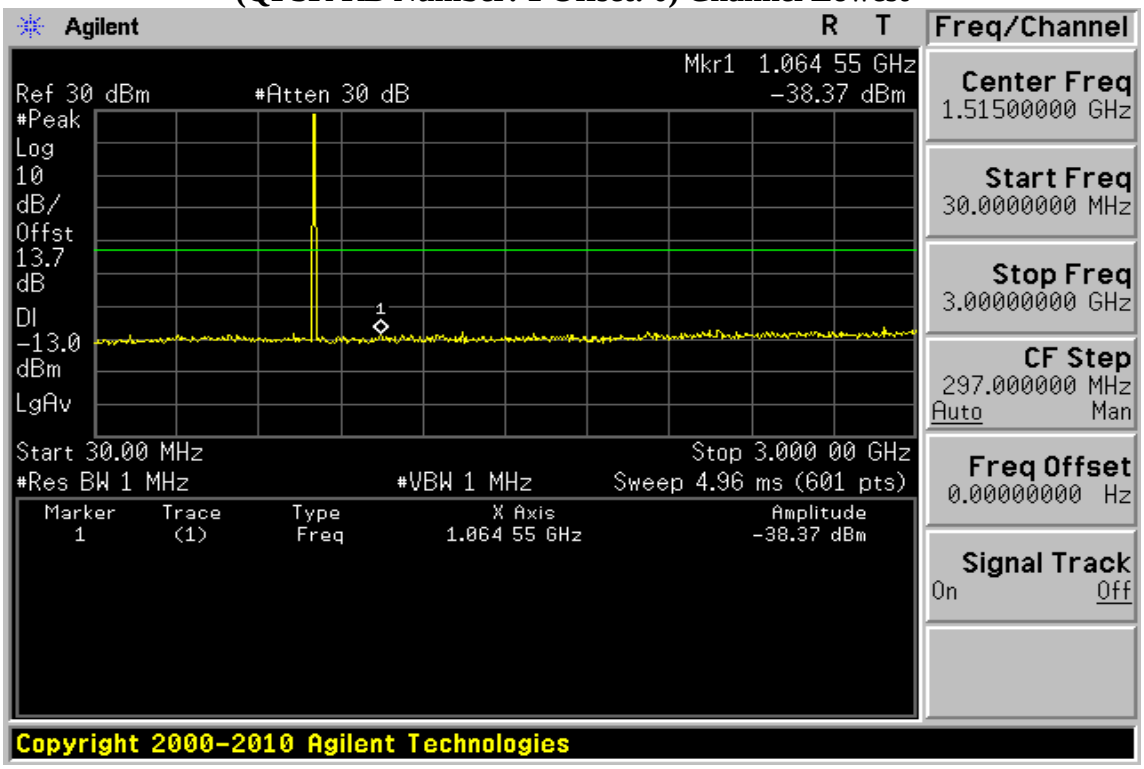
(QPSK RB Number: 100 Offset: 0)

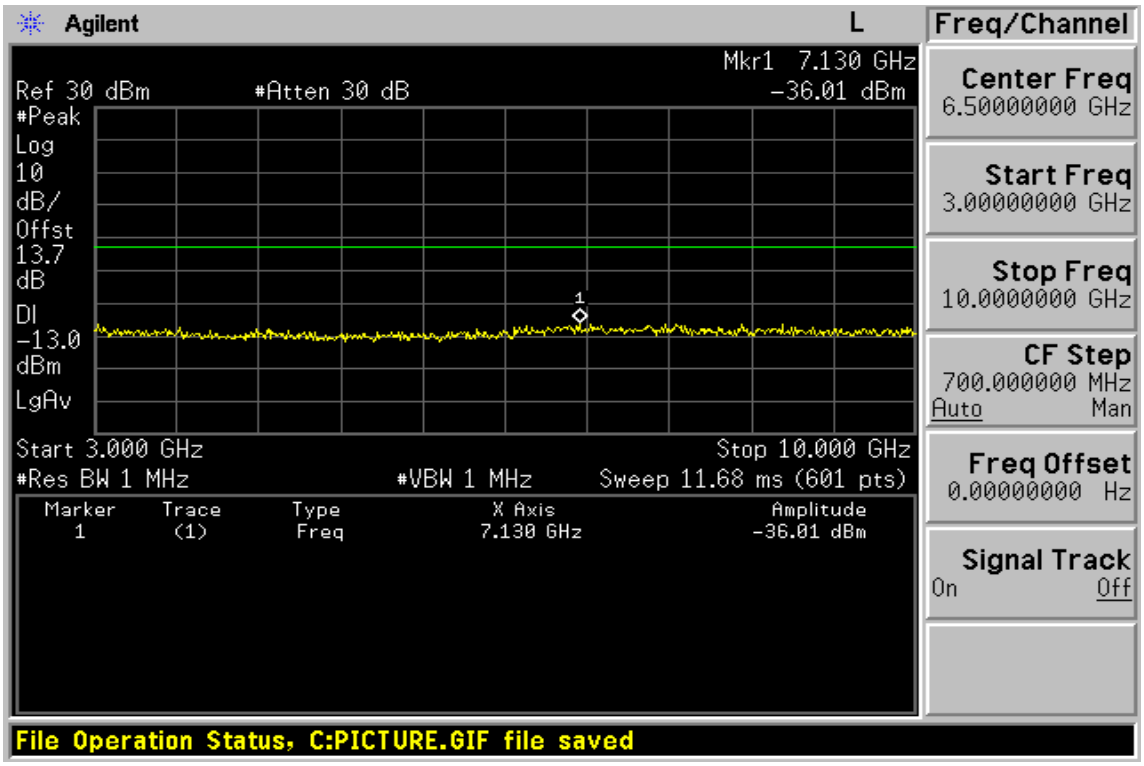
Test Mode 20MHz BW LTE-Band 4 Engineer :Marcus

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
1709.990	-23.81	-13.00	10.81
1755.027	-24.21	-13.00	11.21

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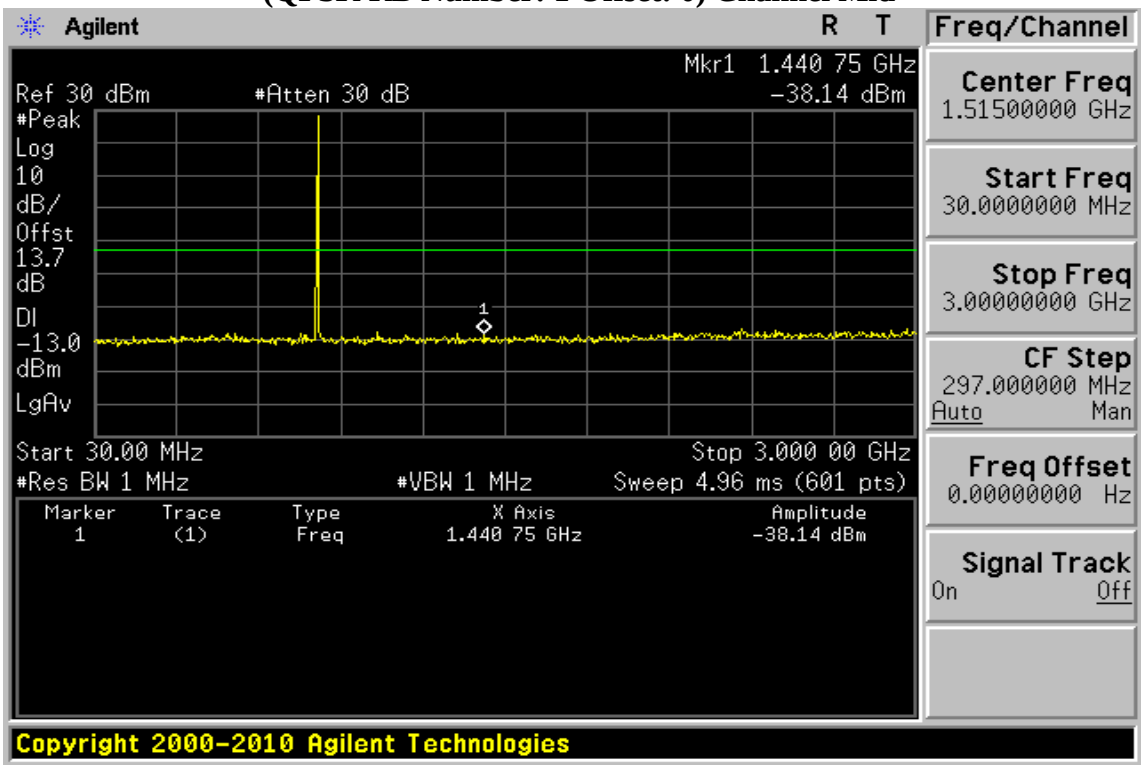
Figure 9-160: Out of Band emission at antenna terminals–1.4MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Lowest

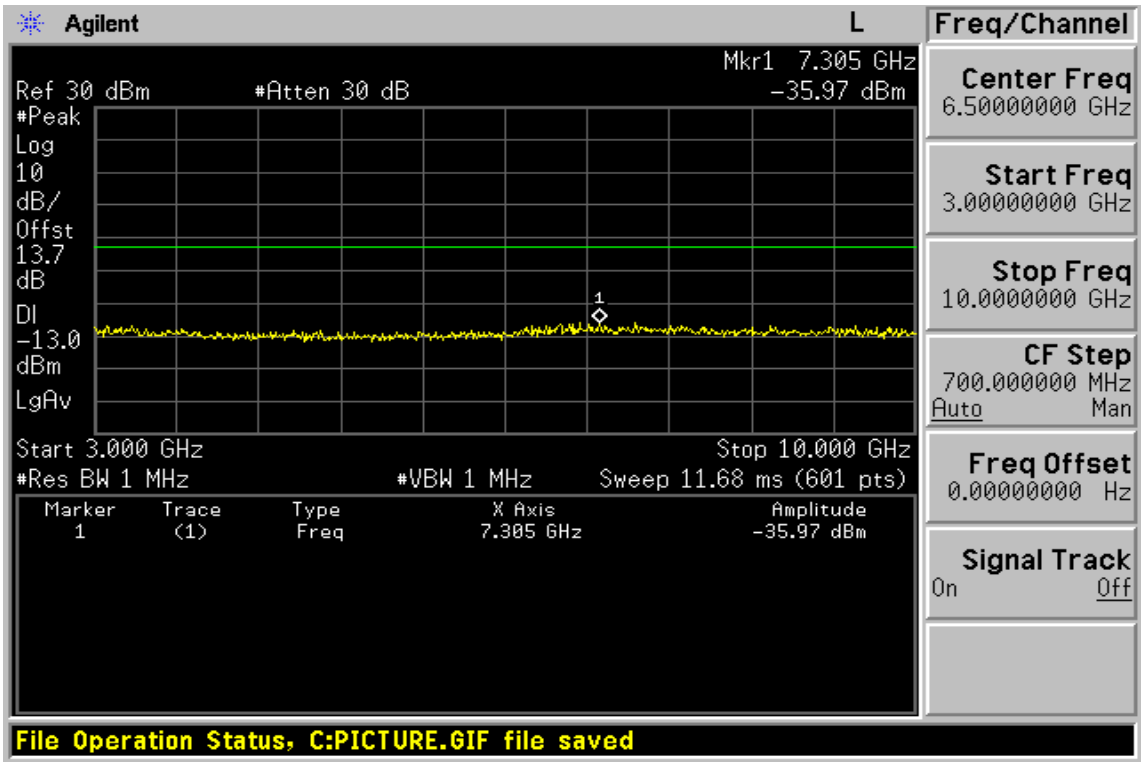




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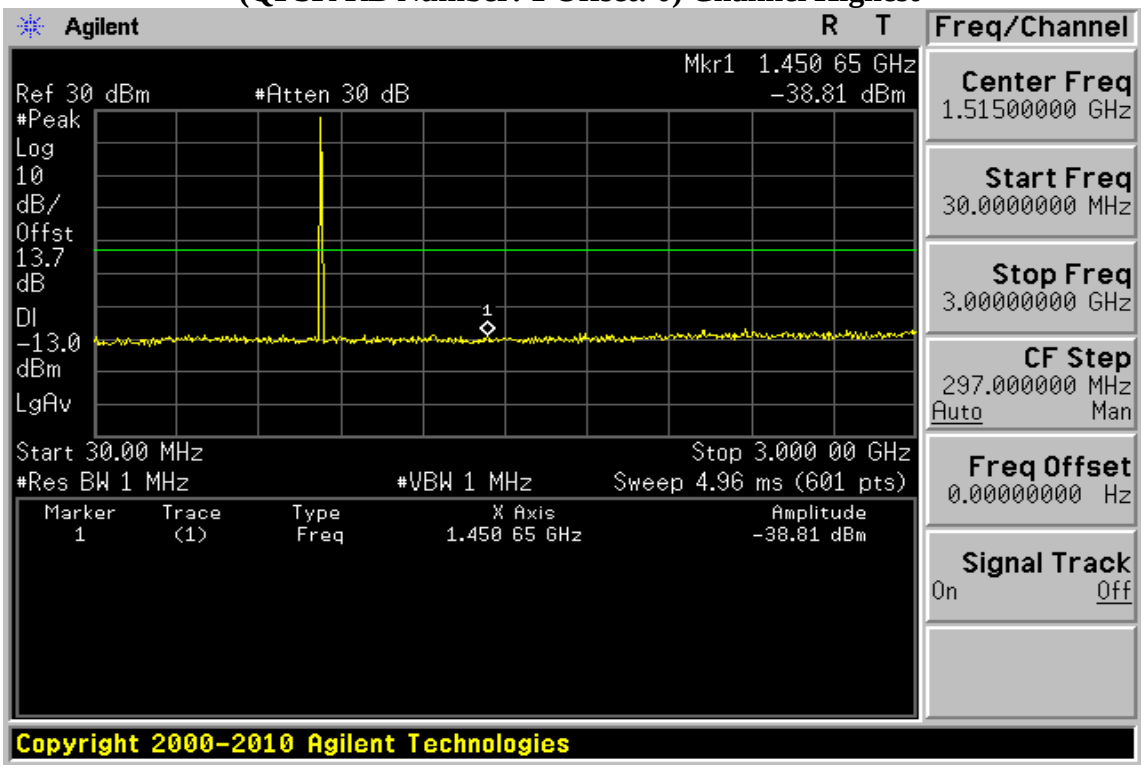
Figure 9-161: Out of Band emission at antenna terminals –1.4MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Mid

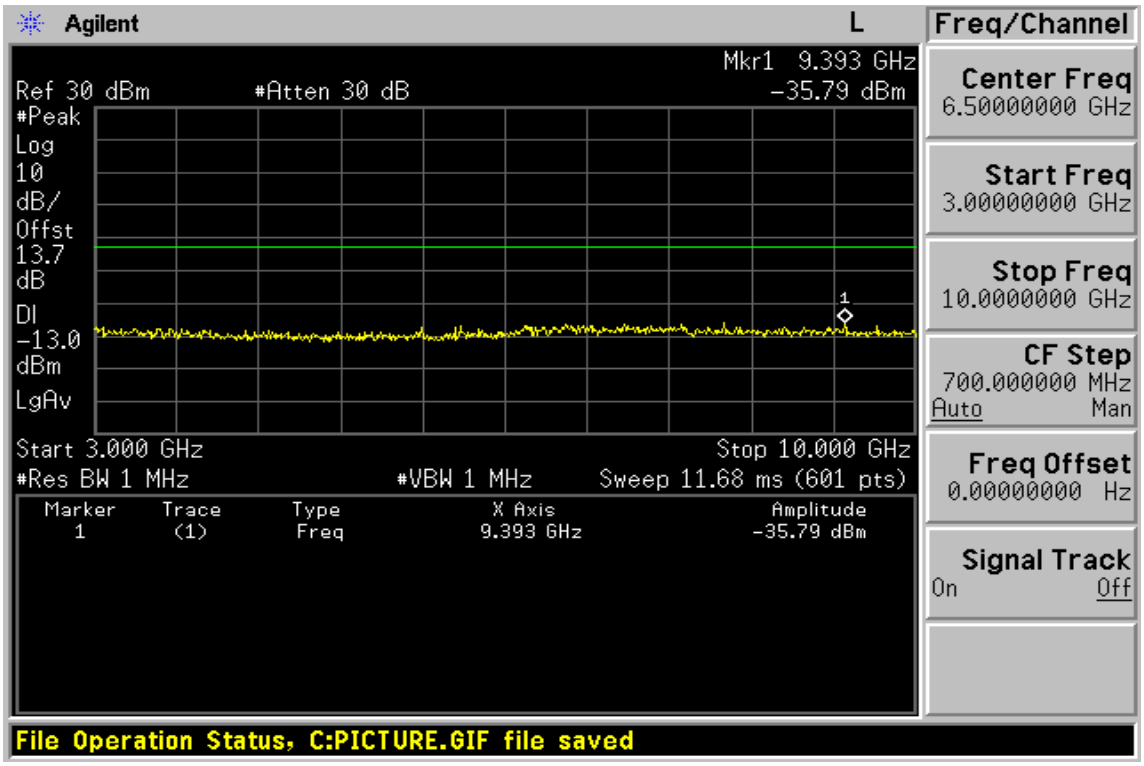




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Figure 9-162: Out of Band emission at antenna terminals–1.4MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Highest





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

(QPSK RB Number: 1 Offset: 0)

Fundamental Frequency :824.7 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	---
1649.40	H	---	-13.00	---
2474.10	H	---	-13.00	---
3298.80	H	---	-13.00	---
4123.50	H	---	-13.00	---
4948.20	H	---	-13.00	---
5772.90	H	---	-13.00	---
6597.60	H	---	-13.00	---
7130.00	S	-36.01	-13.00	23.01
7422.30	H	---	-13.00	---
8247.00	H	---	-13.00	---

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

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Fundamental Frequency :836.5 MHz Engineer :Nick
Operation Mode :TX Mid

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	H	---	-13.00	---
2509.50	H	---	-13.00	---
3346.00	H	---	-13.00	---
4182.50	H	---	-13.00	---
5019.00	H	---	-13.00	---
5855.50	H	---	-13.00	---
6692.00	H	---	-13.00	---
7305.00	S	-35.97	-13.00	22.97
7528.50	H	---	-13.00	---
8365.00	H	---	-13.00	---

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

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Fundamental Frequency :848.3 MHz Engineer :Nick
Operation Mode :TX High

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1696.60	H	---	-13.00	---
2544.90	H	---	-13.00	---
3393.20	H	---	-13.00	---
4241.50	H	---	-13.00	---
5089.80	H	---	-13.00	---
5938.10	H	---	-13.00	---
6786.40	H	---	-13.00	---
7634.70	H	---	-13.00	---
8483.00	H	---	-13.00	---
9393.00	S	-35.79	-13.00	22.79

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
“” : denotes Spurious Freque

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Figure 9-163: Band edge emission at antenna terminals –1.4MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Lowest

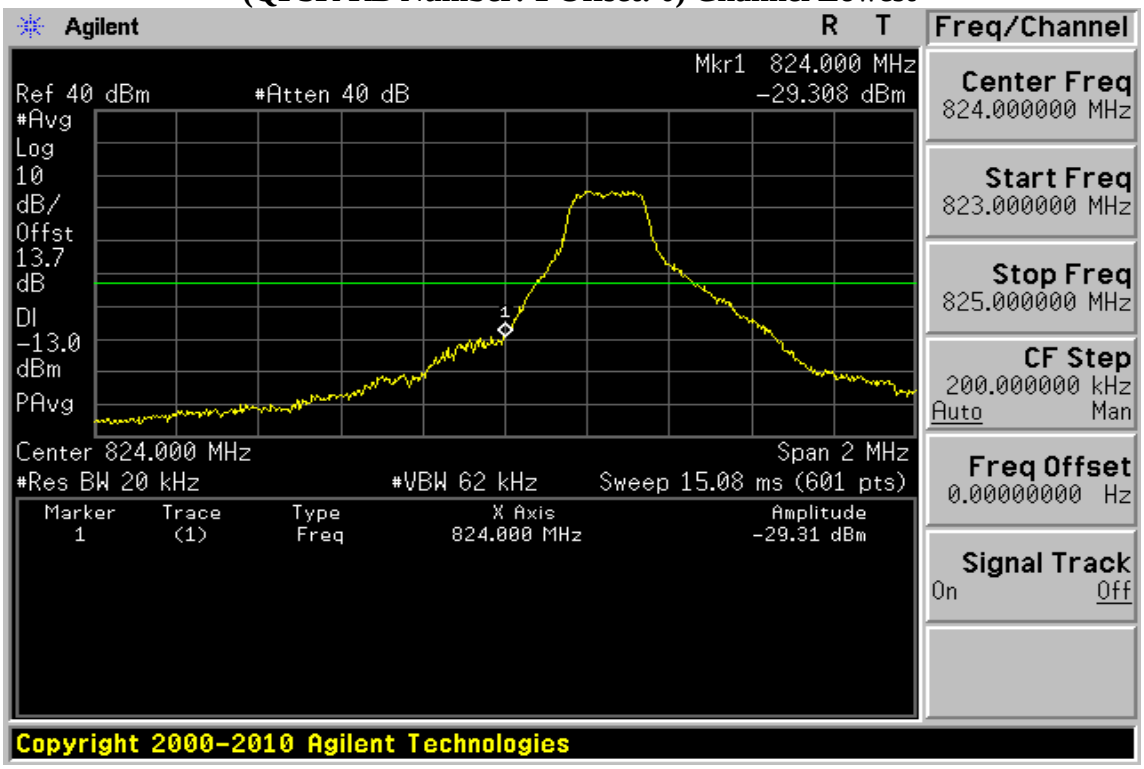
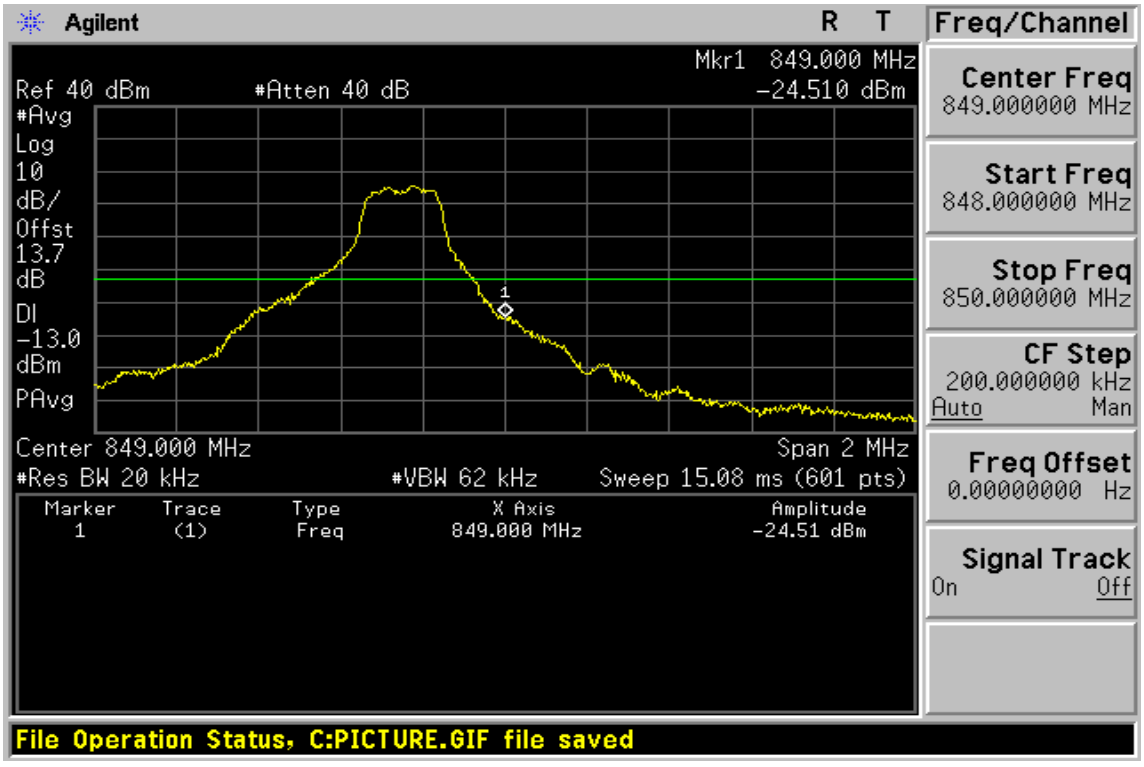


Figure 9-164: Band edge emission at antenna terminals –1.4MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 5) Channel Highest



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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

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
824.000	-29.31	-13.00	16.31
849.000	-24.51	-13.00	11.51

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Figure 9-165: Band edge emission at antenna terminals –1.4MHz BW LTE-Band 5 (QPSK RB Number: 6 Offset: 0) Channel Lowest

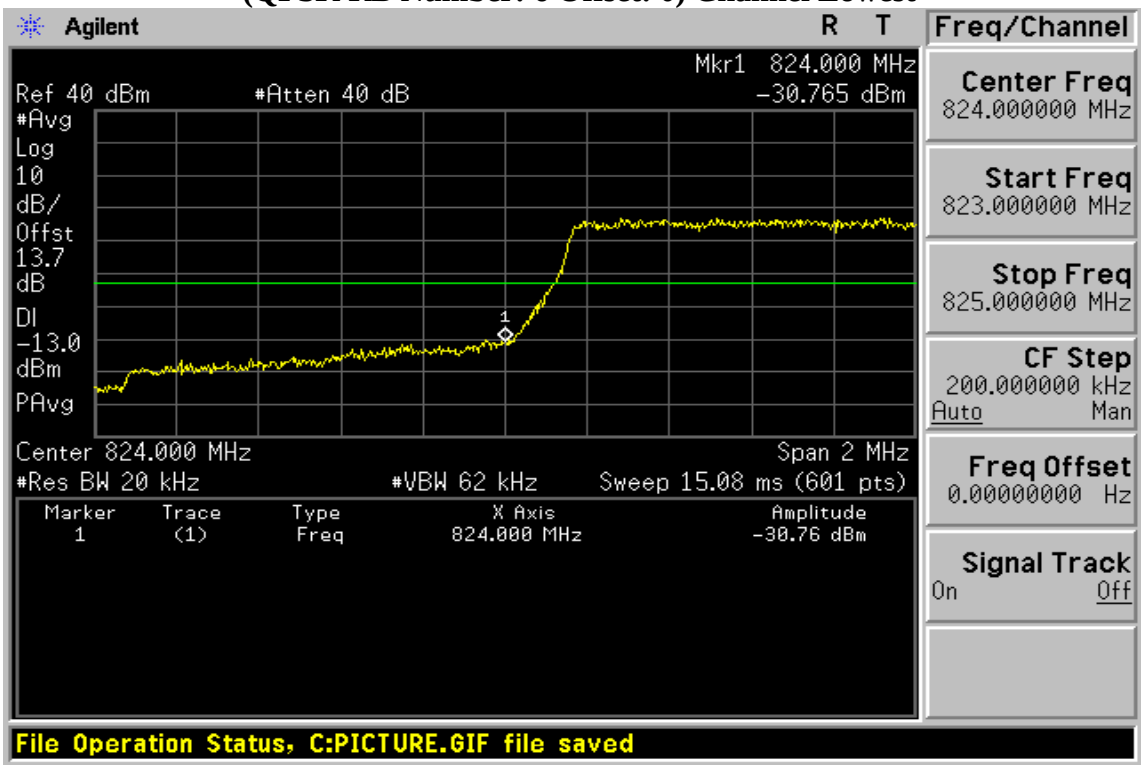
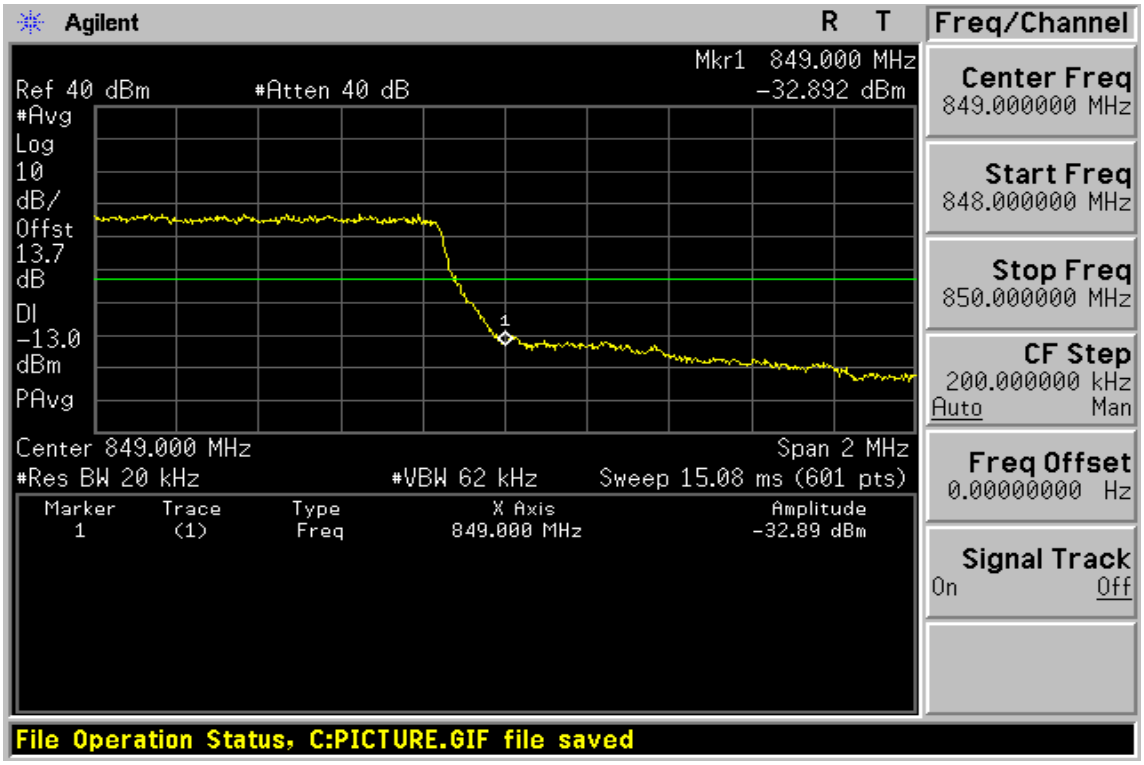


Figure 9-166: Band edge emission at antenna terminals –1.4MHz BW LTE-Band 5 (QPSK RB Number: 6 Offset: 0) Channel Highest



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

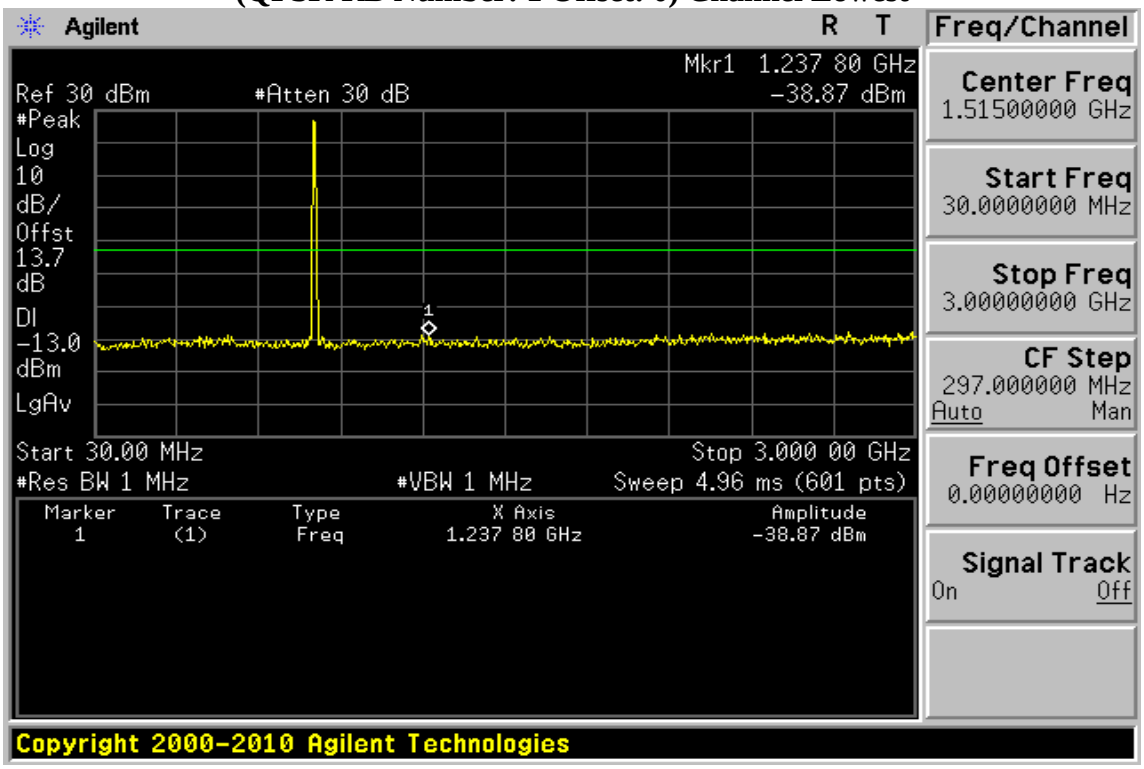
(QPSK RB Number: 6 Offset: 0)

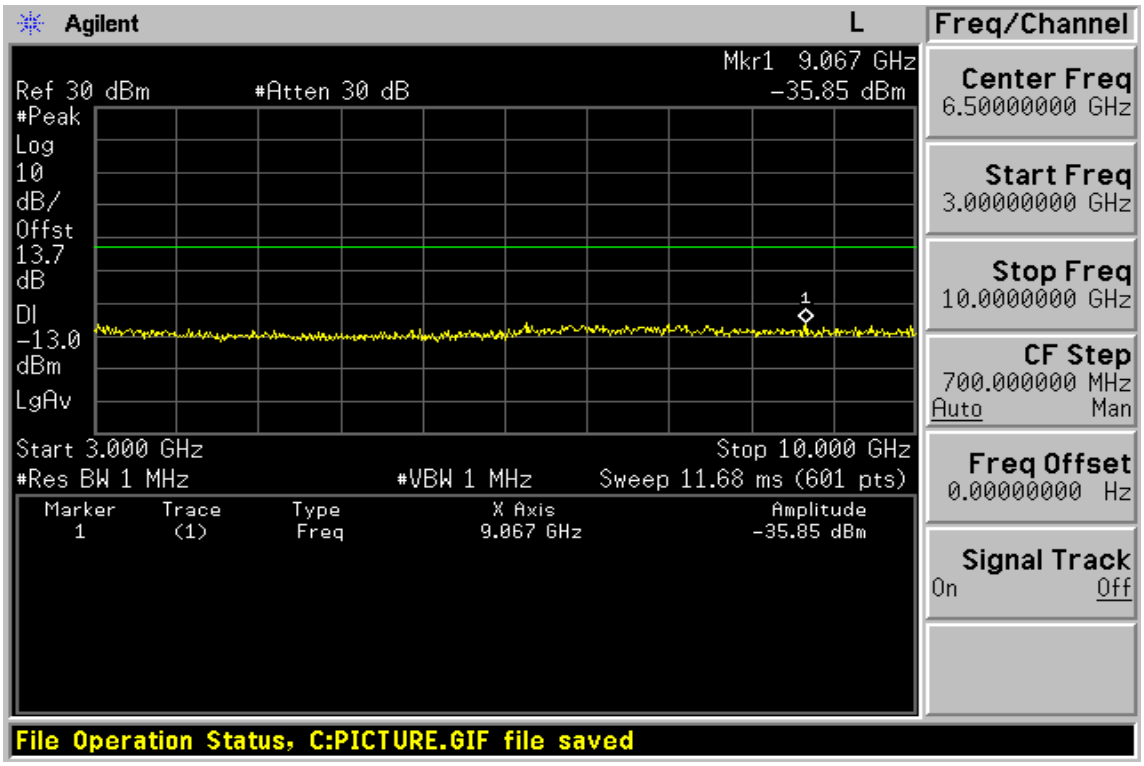
Test Mode 1.4MHz BW LTE-Band 5 Engineer :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
824.000	-30.76	-13.00	17.76
849.000	-32.89	-13.00	19.89

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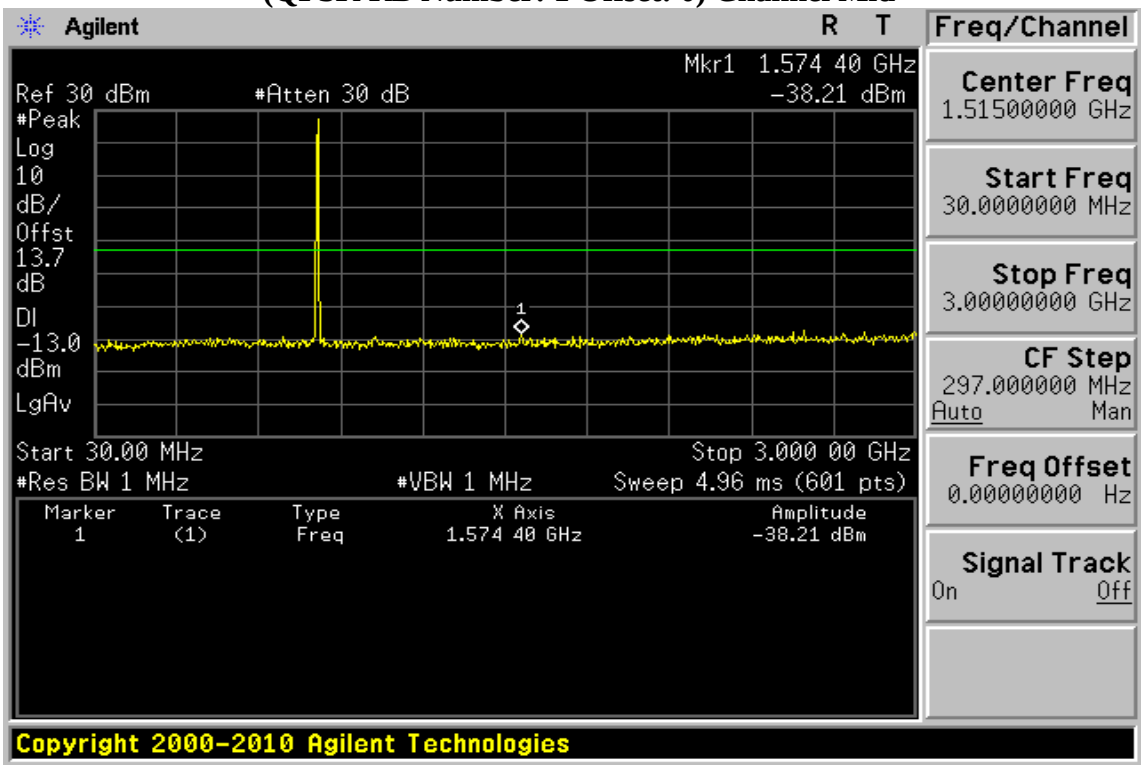
Figure 9-167: Out of Band emission at antenna terminals–3MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Lowest

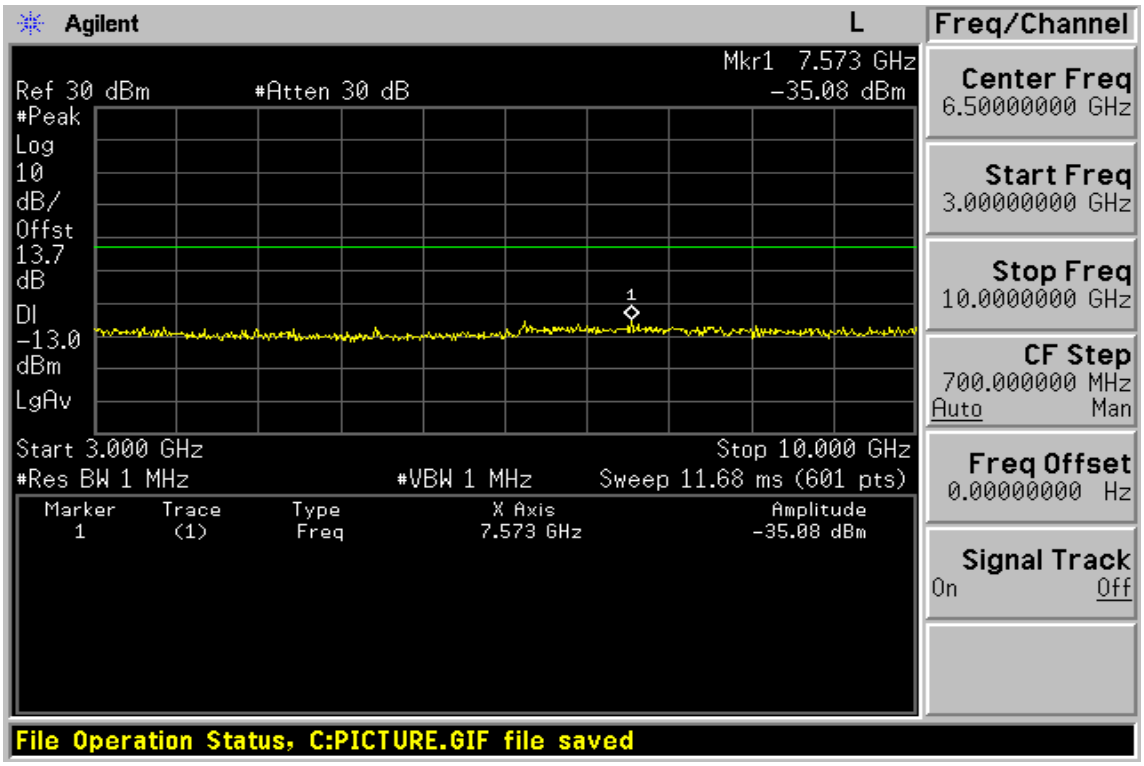




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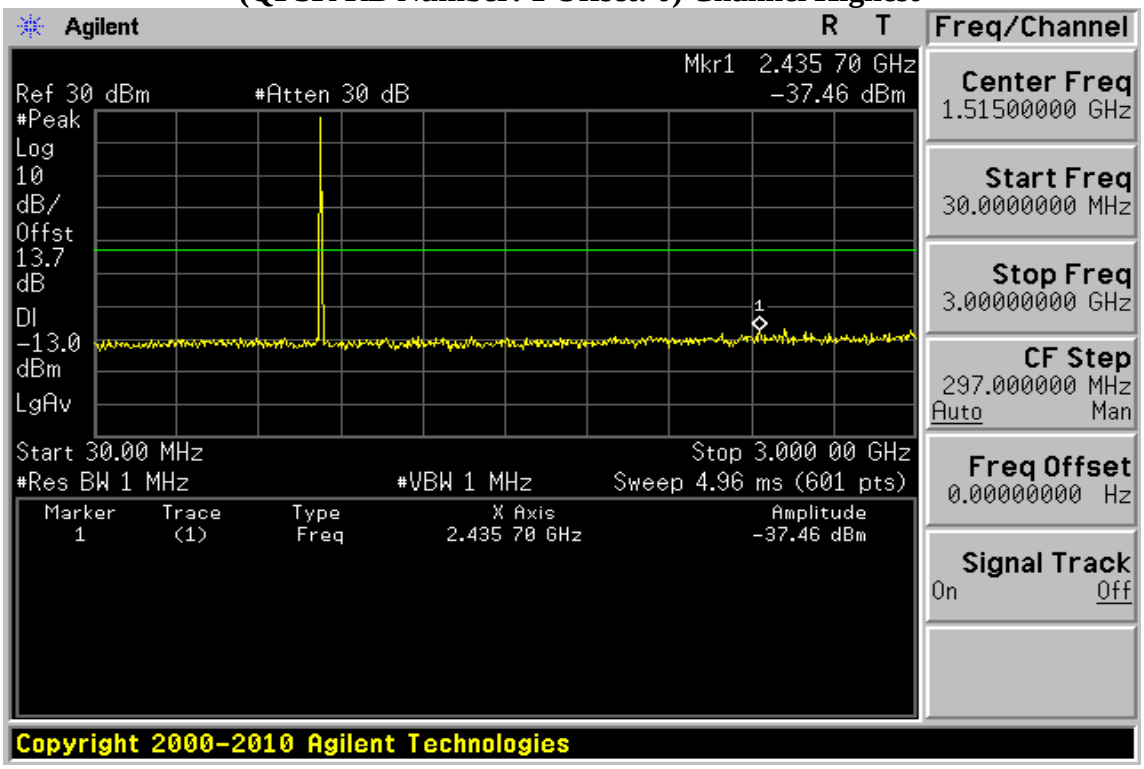
Figure 9-168: Out of Band emission at antenna terminals –3MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Mid

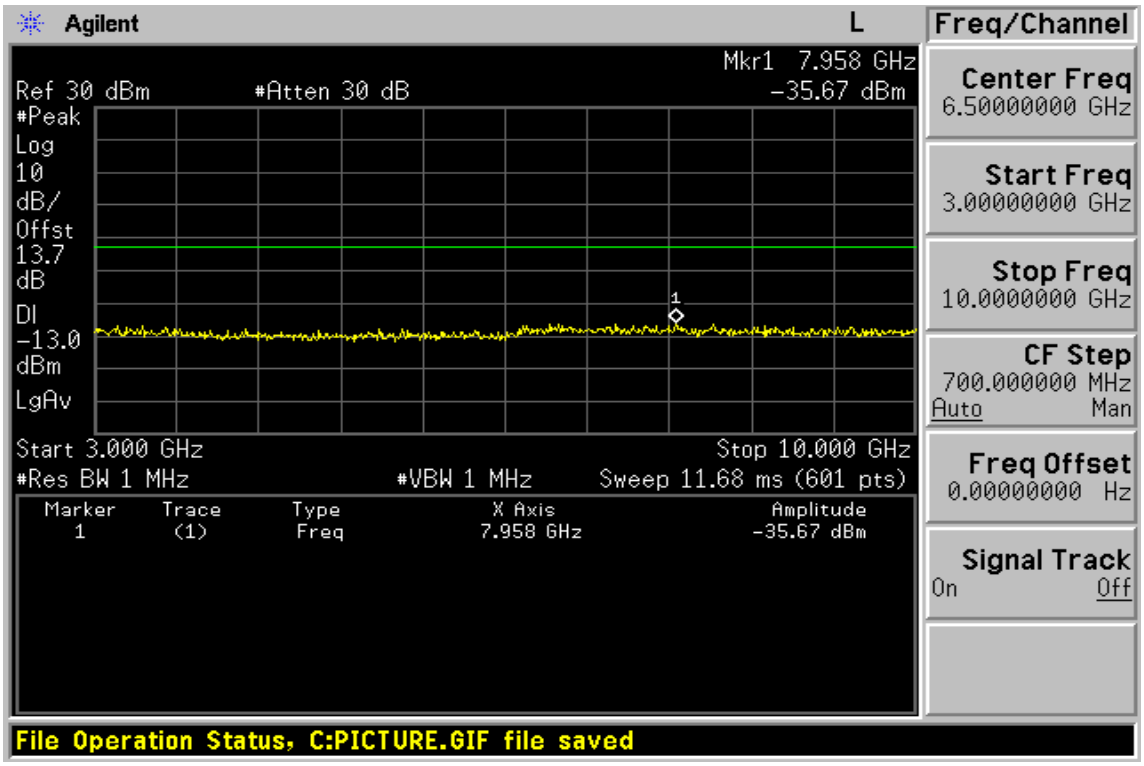




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Figure 9-169: Out of Band emission at antenna terminals–3MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Highest





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

(QPSK RB Number: 1 Offset: 0)

Fundamental Frequency :825.5 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	---
1651.00	H	---	-13.00	---
2476.50	H	---	-13.00	---
3302.00	H	---	-13.00	---
4127.50	H	---	-13.00	---
4953.00	H	---	-13.00	---
5778.50	H	---	-13.00	---
6604.00	H	---	-13.00	---
7429.50	H	---	-13.00	---
8255.00	H	---	-13.00	---
9067.00	S	-35.85	-13.00	22.85

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

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Fundamental Frequency :836.5 MHz Engineer :Nick
Operation Mode :TX Mid

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	H	---	-13.00	---
2509.50	H	---	-13.00	---
3346.00	H	---	-13.00	---
4182.50	H	---	-13.00	---
5019.00	H	---	-13.00	---
5855.50	H	---	-13.00	---
6692.00	H	---	-13.00	---
7528.50	H	---	-13.00	---
7573.00	S	-35.08	-13.00	22.08
8365.00	H	---	-13.00	---

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

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Fundamental Frequency :825.3 MHz Engineer :Nick
Operation Mode :TX High

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1650.60	H	---	-13.00	---
2475.90	H	---	-13.00	---
3301.20	H	---	-13.00	---
4126.50	H	---	-13.00	---
4951.80	H	---	-13.00	---
5777.10	H	---	-13.00	---
6602.40	H	---	-13.00	---
7427.70	H	---	-13.00	---
7958.00	S	-35.67	-13.00	22.67
8253.00	H	---	-13.00	---

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

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Figure 9-170: Band edge emission at antenna terminals –3MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Lowest

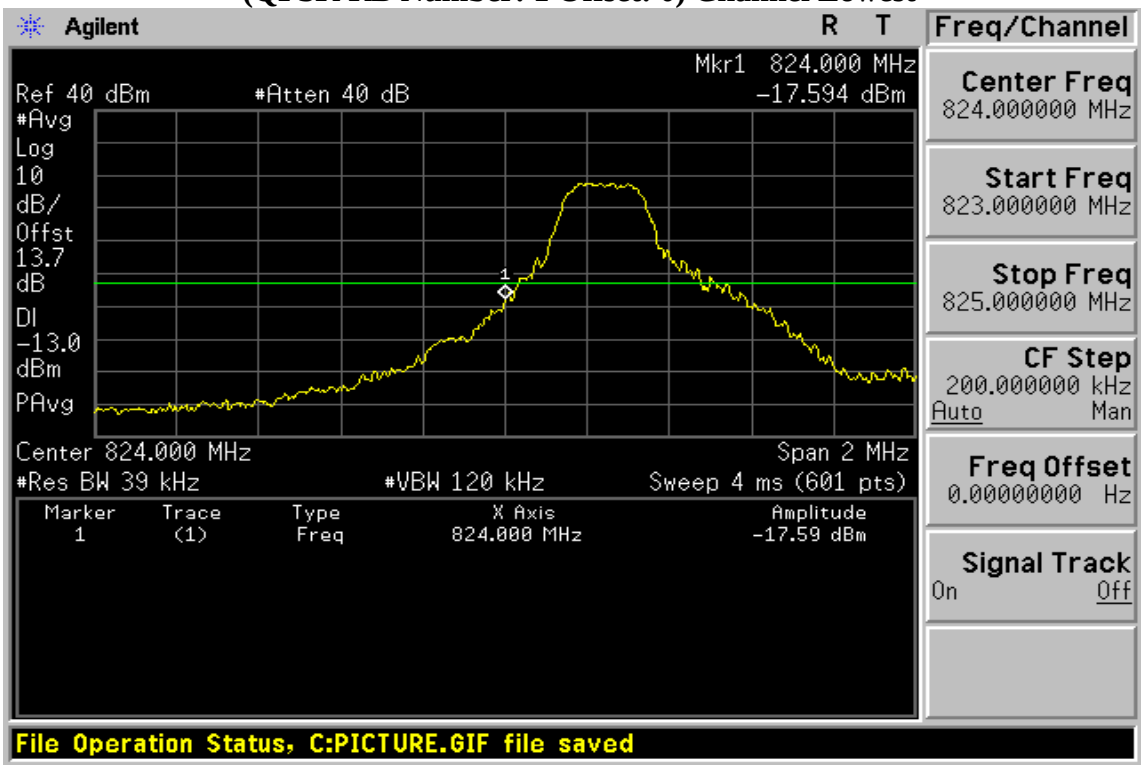
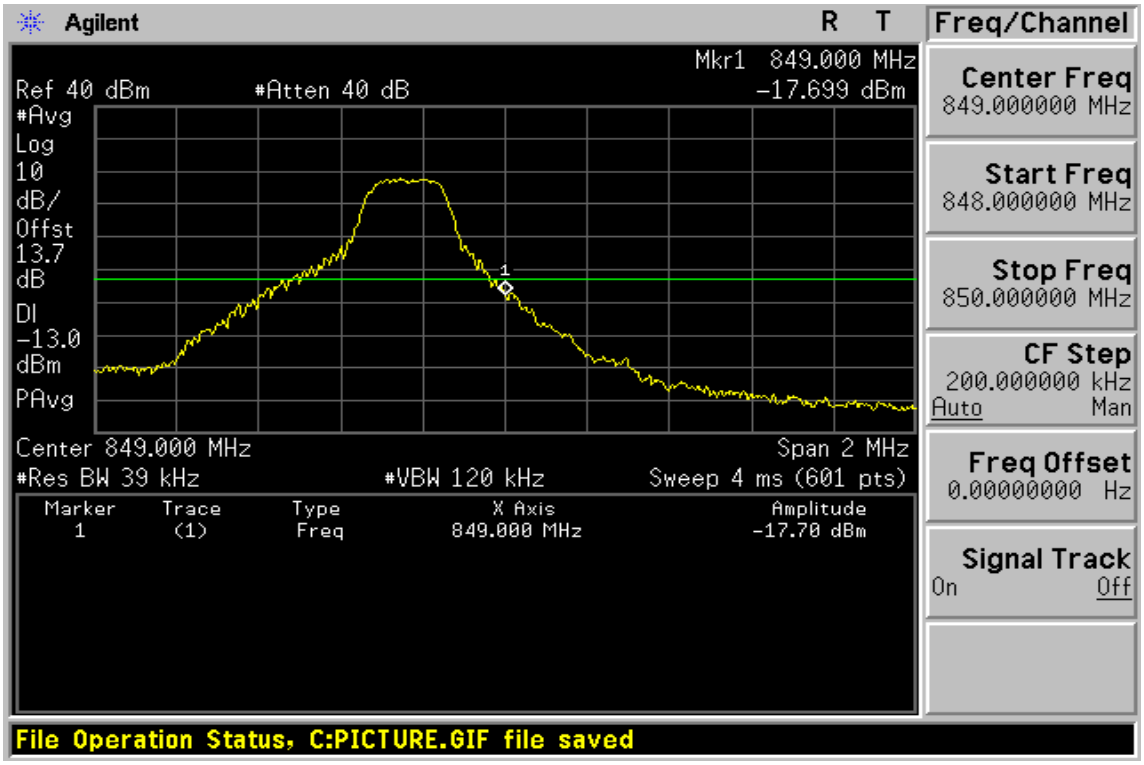


Figure 9-171: Band edge emission at antenna terminals –3MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 14) Channel Highest



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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

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
824.000	-17.59	-13.00	4.59
849.000	-17.70	-13.00	4.70

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Figure 9-172: Band edge emission at antenna terminals –3MHz BW LTE-Band 5 (QPSK RB Number: 15 Offset: 0) Channel Lowest

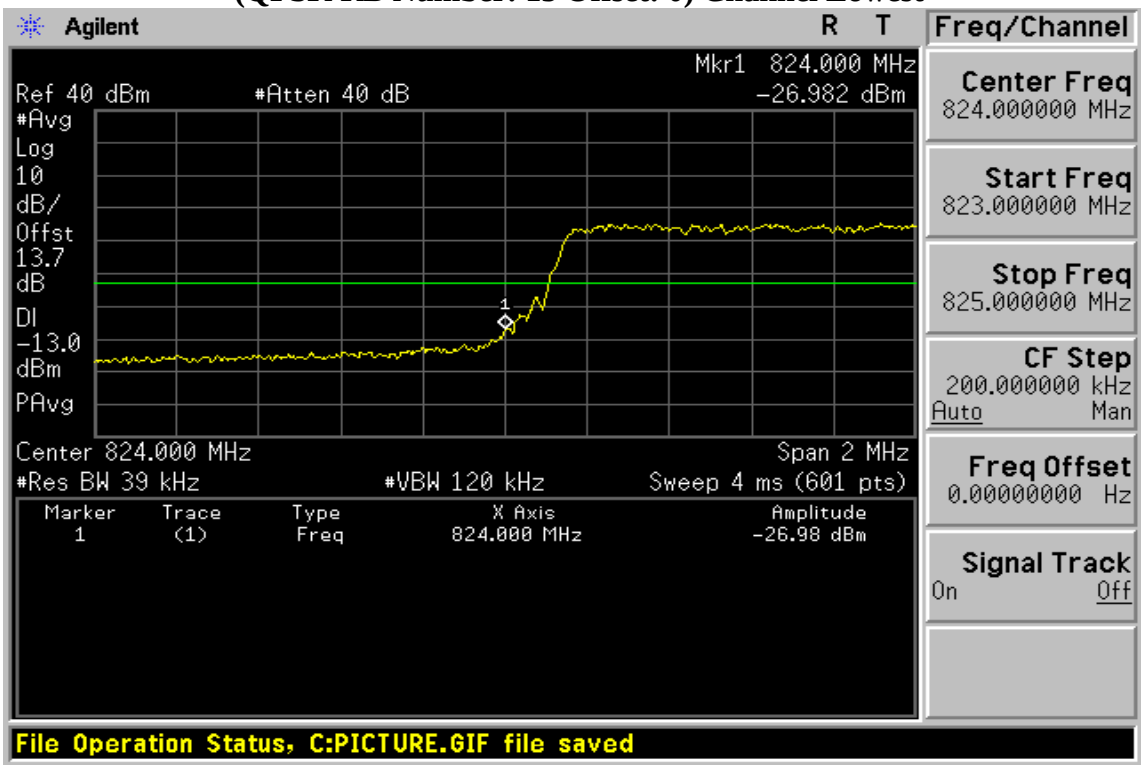
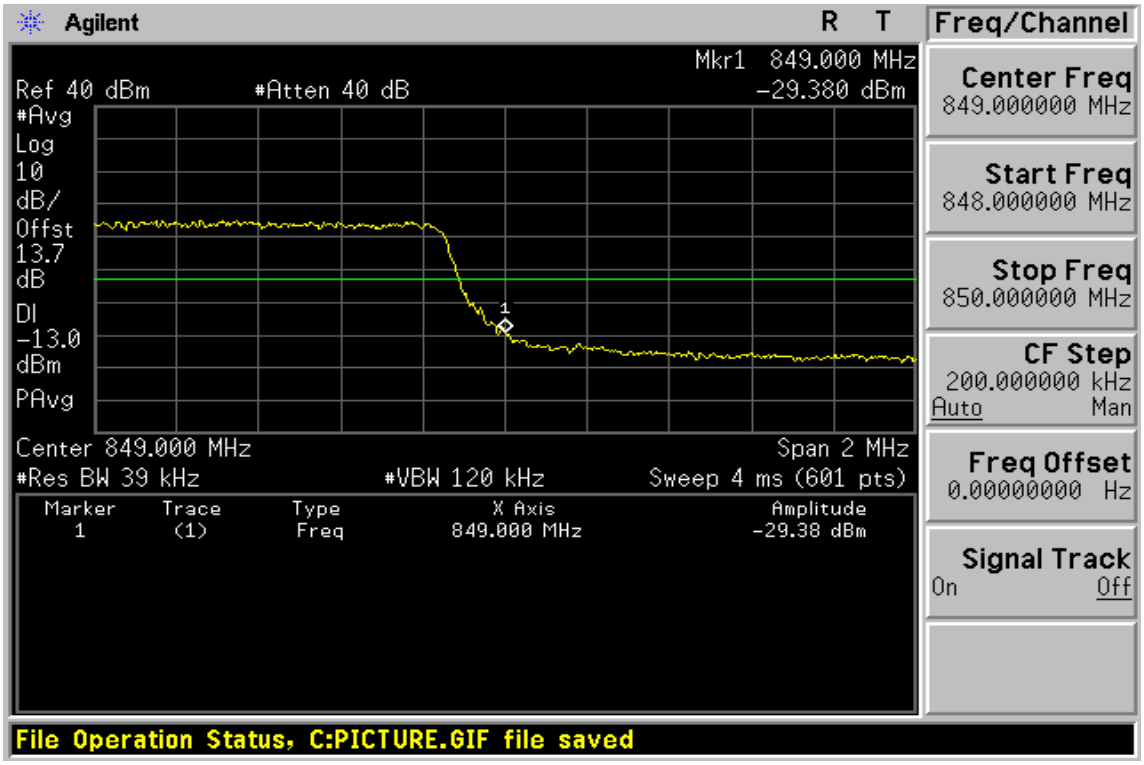


Figure 9-173: Band edge emission at antenna terminals –3MHz BW LTE-Band 5 (QPSK RB Number: 15 Offset: 0) Channel Highest



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

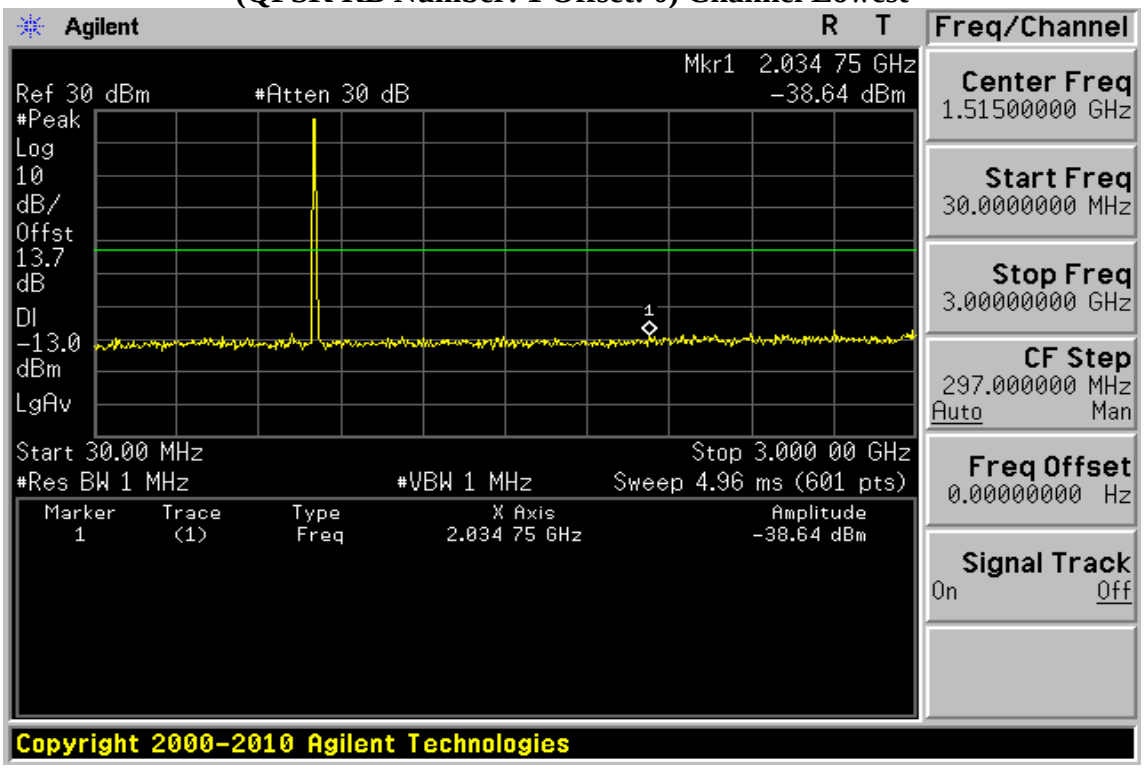
(QPSK RB Number: 15 Offset: 0)

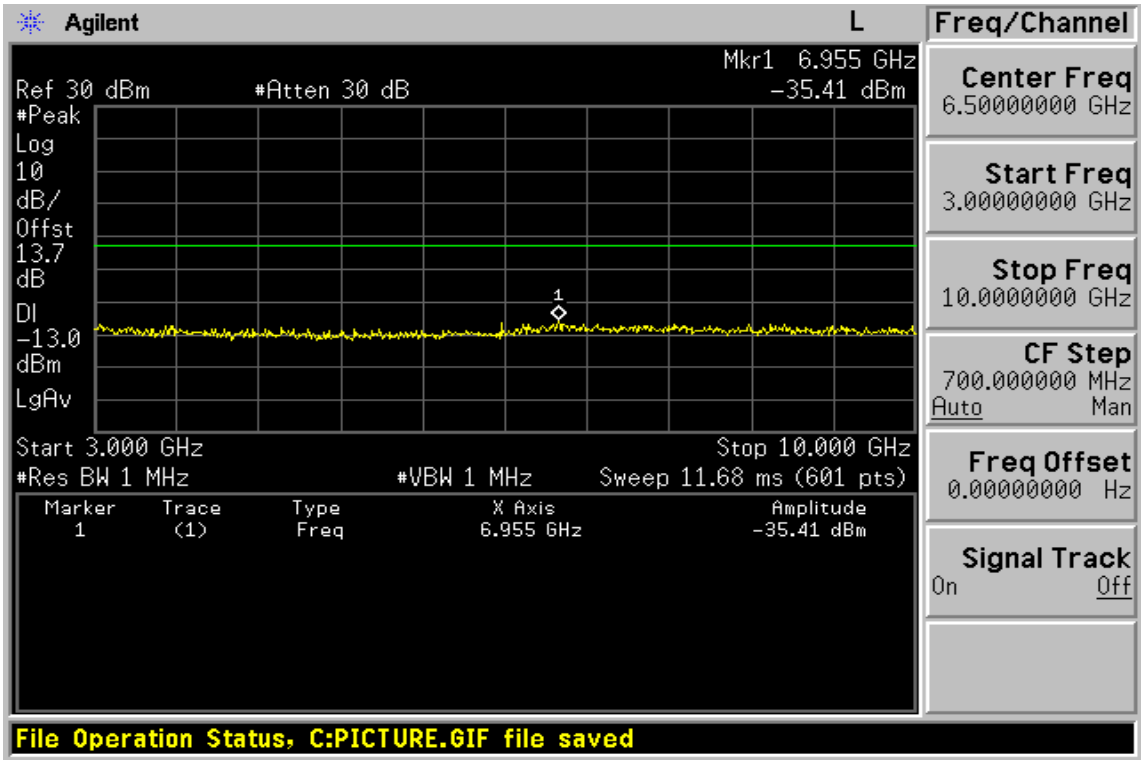
Test Mode 3MHz BW LTE-Band 5 Engineer :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
824.000	-26.98	-13.00	13.98
849.000	-29.38	-13.00	16.38

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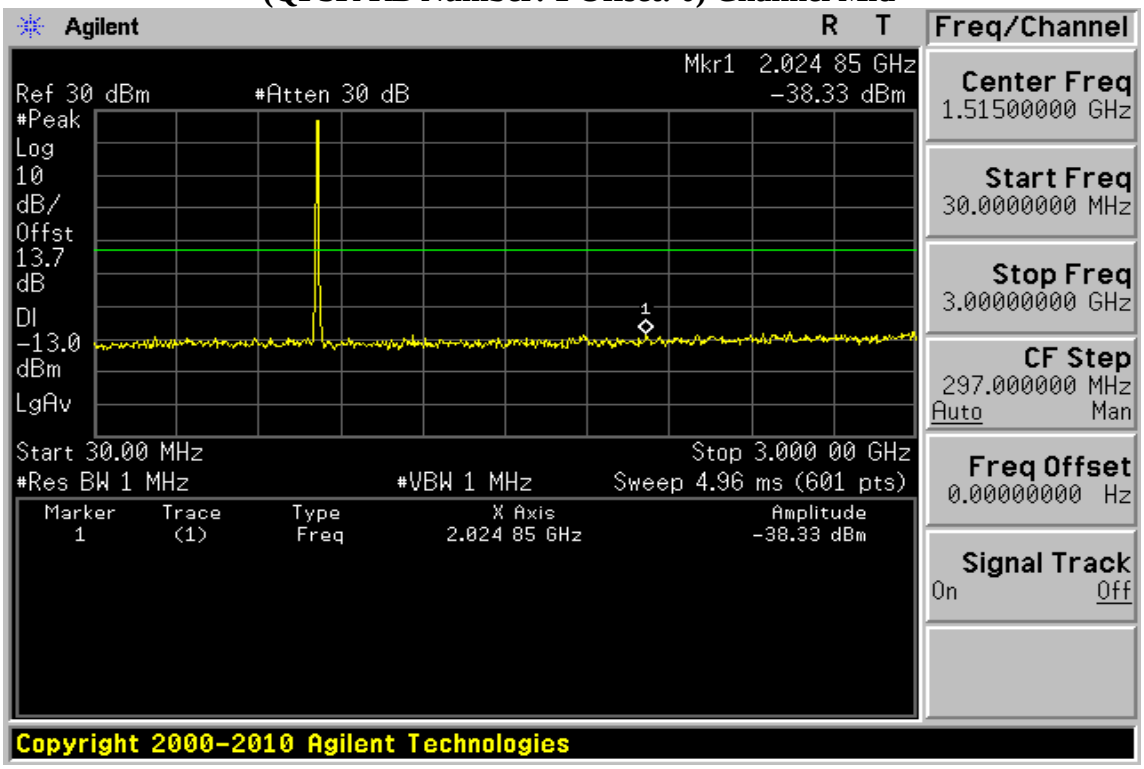
Figure 9-174: Out of Band emission at antenna terminals–5MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Lowest

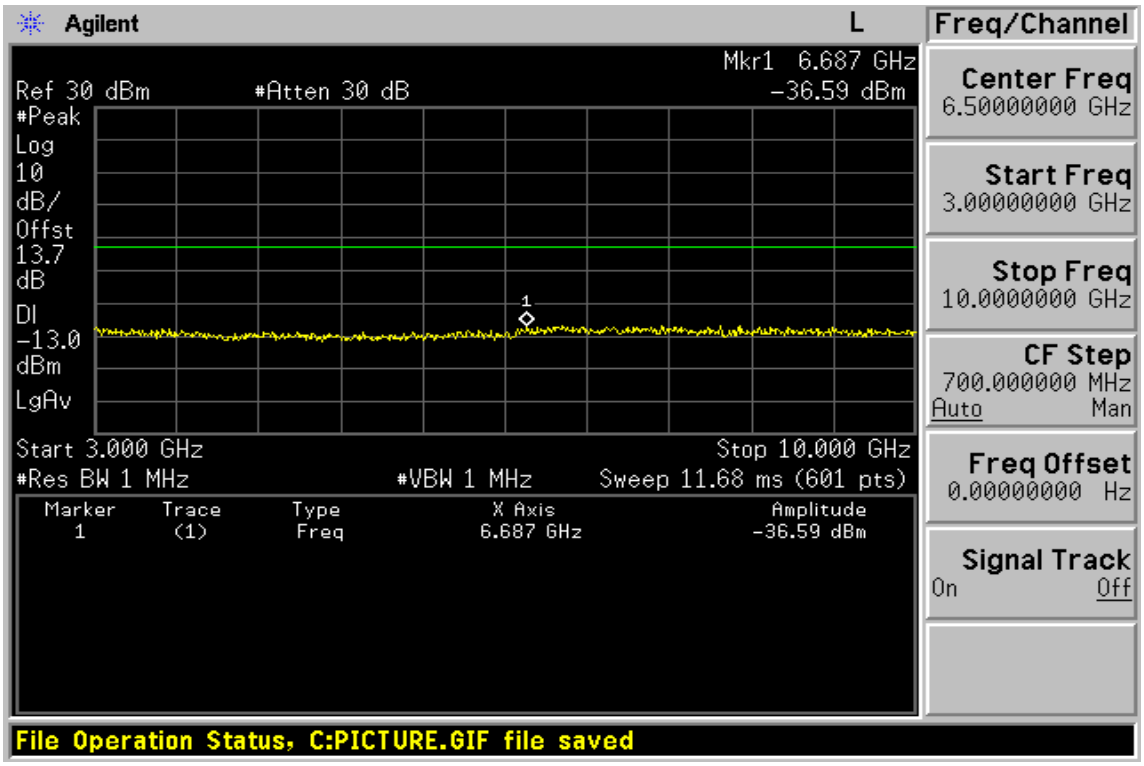




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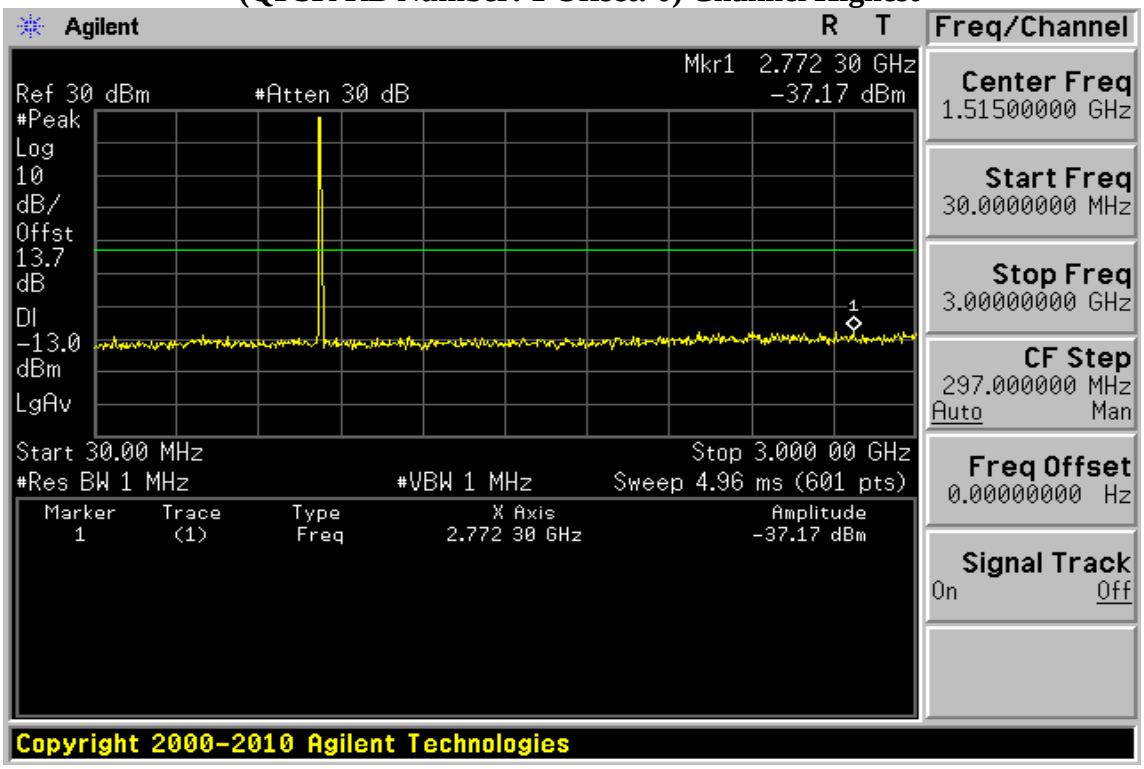
Figure 9-175: Out of Band emission at antenna terminals –5MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Mid

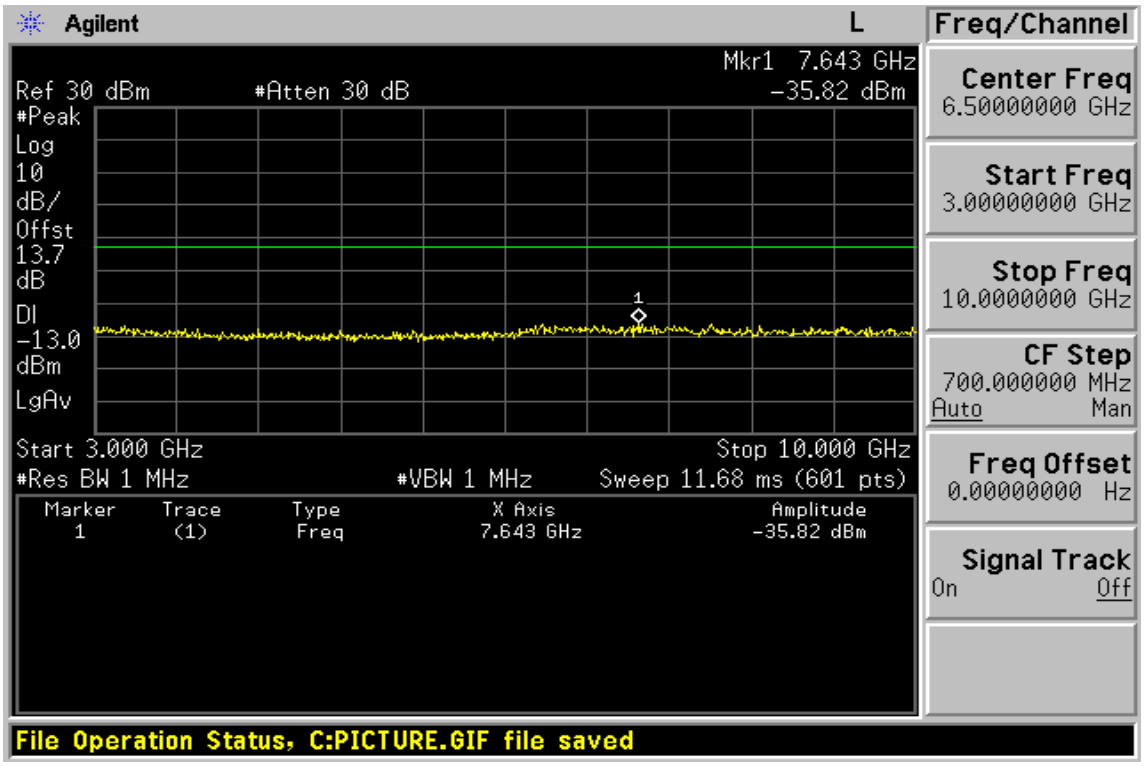




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Figure 9-176: Out of Band emission at antenna terminals–5MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Highest





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

(QPSK RB Number: 1 Offset: 0)

Fundamental Frequency :826.5 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	---
1653.00	H	---	-13.00	---
2479.50	H	---	-13.00	---
3306.00	H	---	-13.00	---
4132.50	H	---	-13.00	---
4959.00	H	---	-13.00	---
5785.50	H	---	-13.00	---
6612.00	H	---	-13.00	---
6955.00	S	-35.41	-13.00	22.41
7438.50	H	---	-13.00	---
8265.00	H	---	-13.00	---

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

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Fundamental Frequency :836.5 MHz Engineer :Nick
Operation Mode :TX Mid

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	H	---	-13.00	---
2509.50	H	---	-13.00	---
3346.00	H	---	-13.00	---
4182.50	H	---	-13.00	---
5019.00	H	---	-13.00	---
5855.50	H	---	-13.00	---
6687.00	S	-36.59	-13.00	23.59
6692.00	H	---	-13.00	---
7528.50	H	---	-13.00	---
8365.00	H	---	-13.00	---

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

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Fundamental Frequency :846.5 MHz Engineer :Nick
Operation Mode :TX High

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1693.00	H	---	-13.00	---
2539.50	H	---	-13.00	---
3386.00	H	---	-13.00	---
4232.50	H	---	-13.00	---
5079.00	H	---	-13.00	---
5925.50	H	---	-13.00	---
6772.00	H	---	-13.00	---
7618.50	H	---	-13.00	---
7643.00	S	-35.82	-13.00	22.82
8465.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
“” : denotes Spurious Freque

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Figure 9-177: Band edge emission at antenna terminals –5MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Lowest

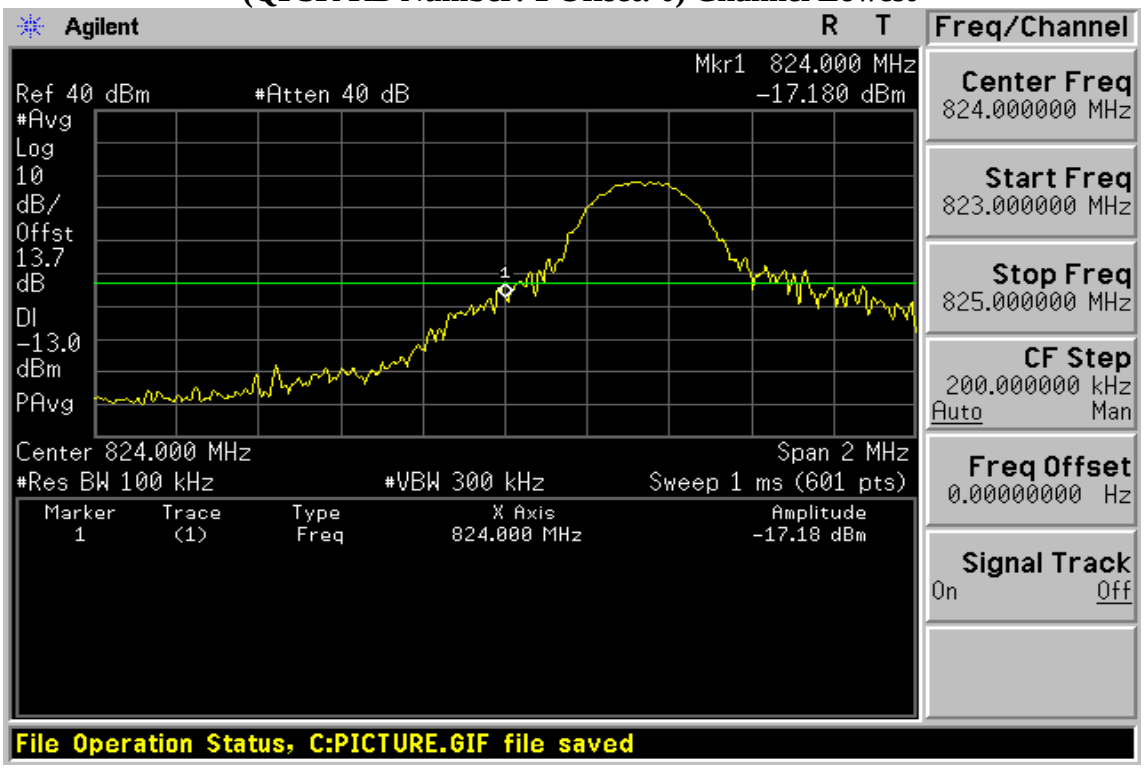
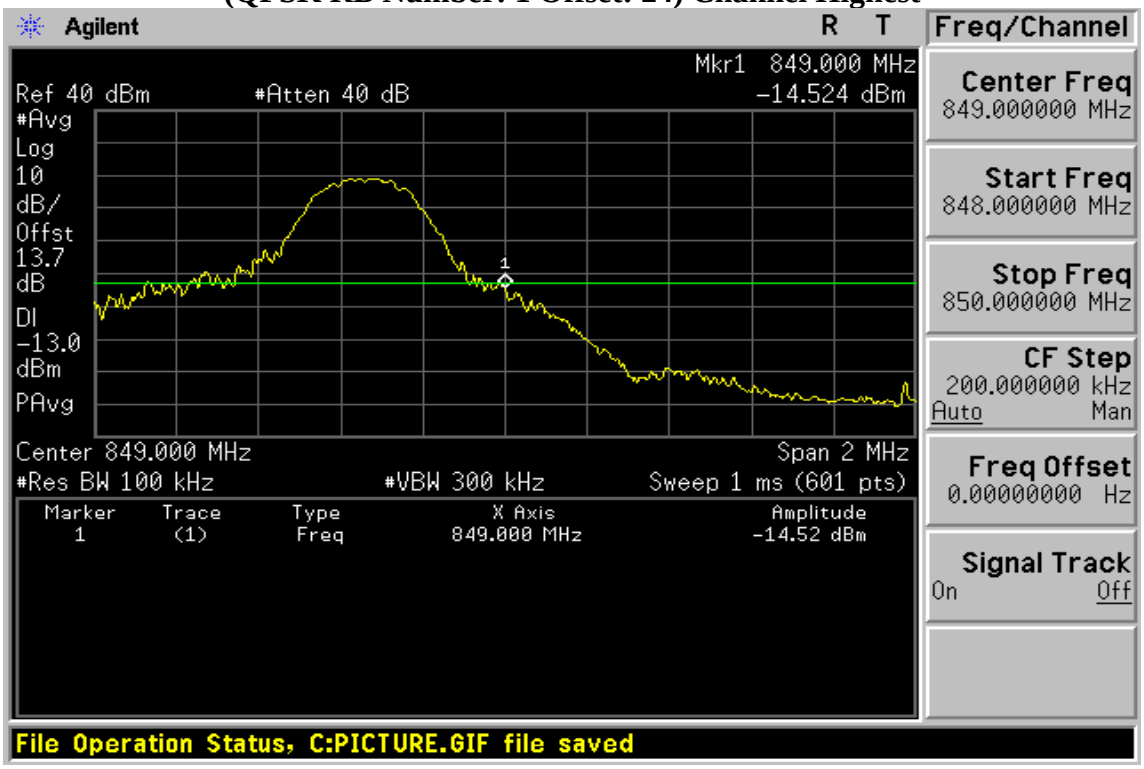


Figure 9-178: Band edge emission at antenna terminals –5MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 24) Channel Highest



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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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Figure 9-179: Band edge emission at antenna terminals –5MHz BW LTE-Band 5 (QPSK RB Number: 25 Offset: 0) Channel Lowest

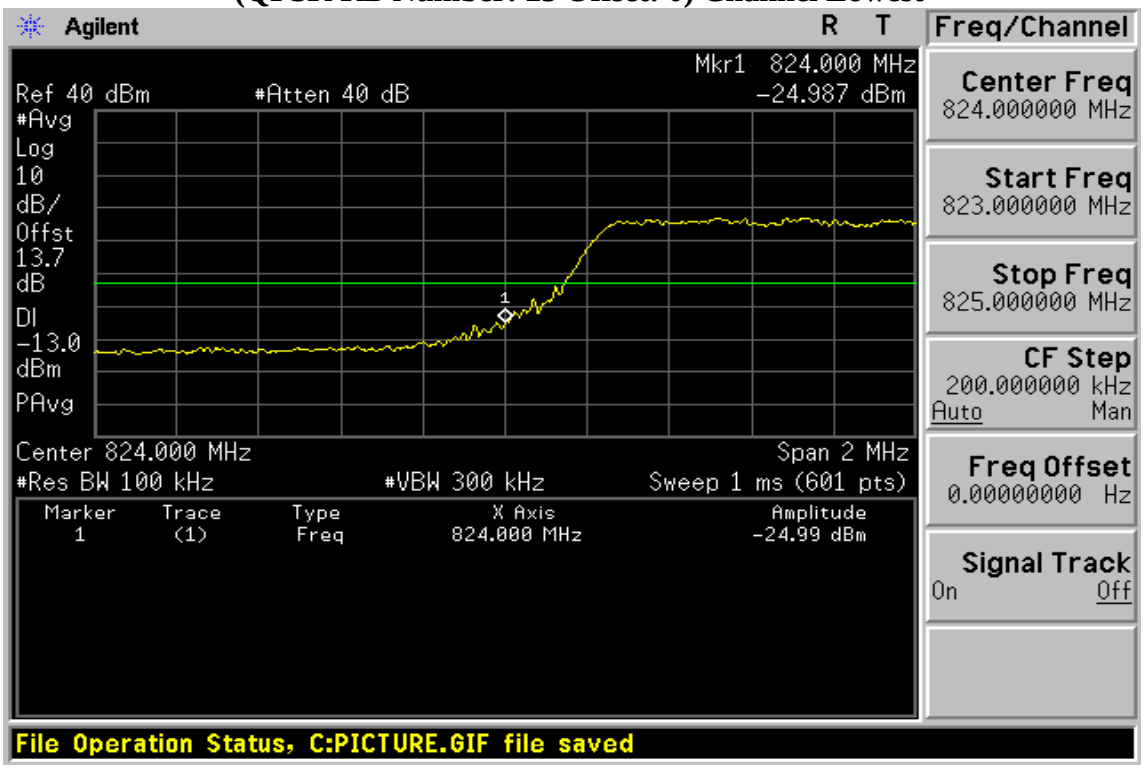
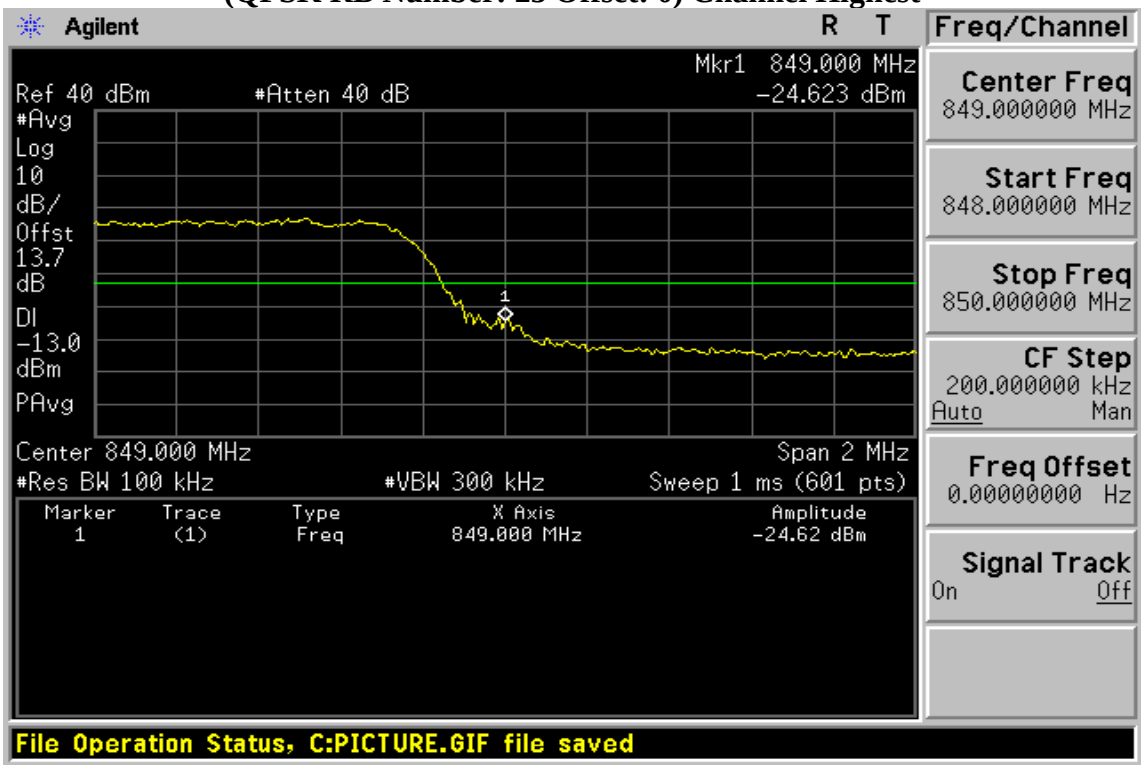


Figure 9-180: Band edge emission at antenna terminals –5MHz BW LTE-Band 5 (QPSK RB Number: 25 Offset: 0) Channel Highest



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

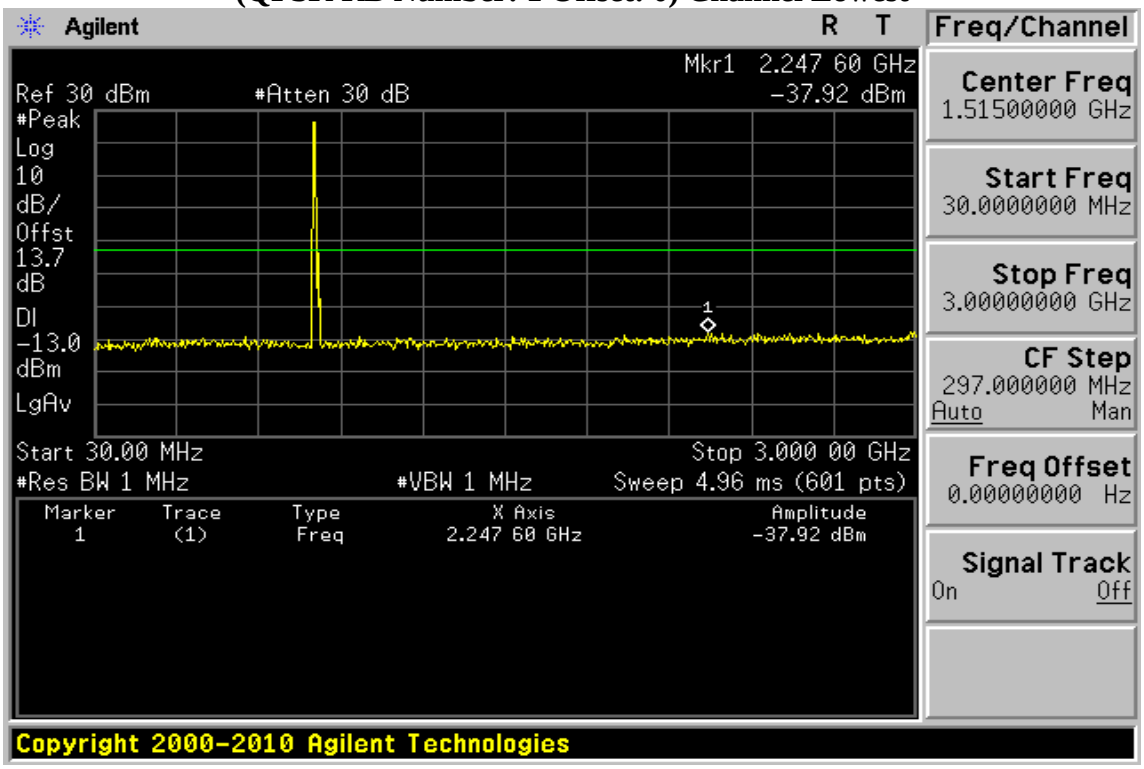
(QPSK RB Number: 25 Offset: 0)

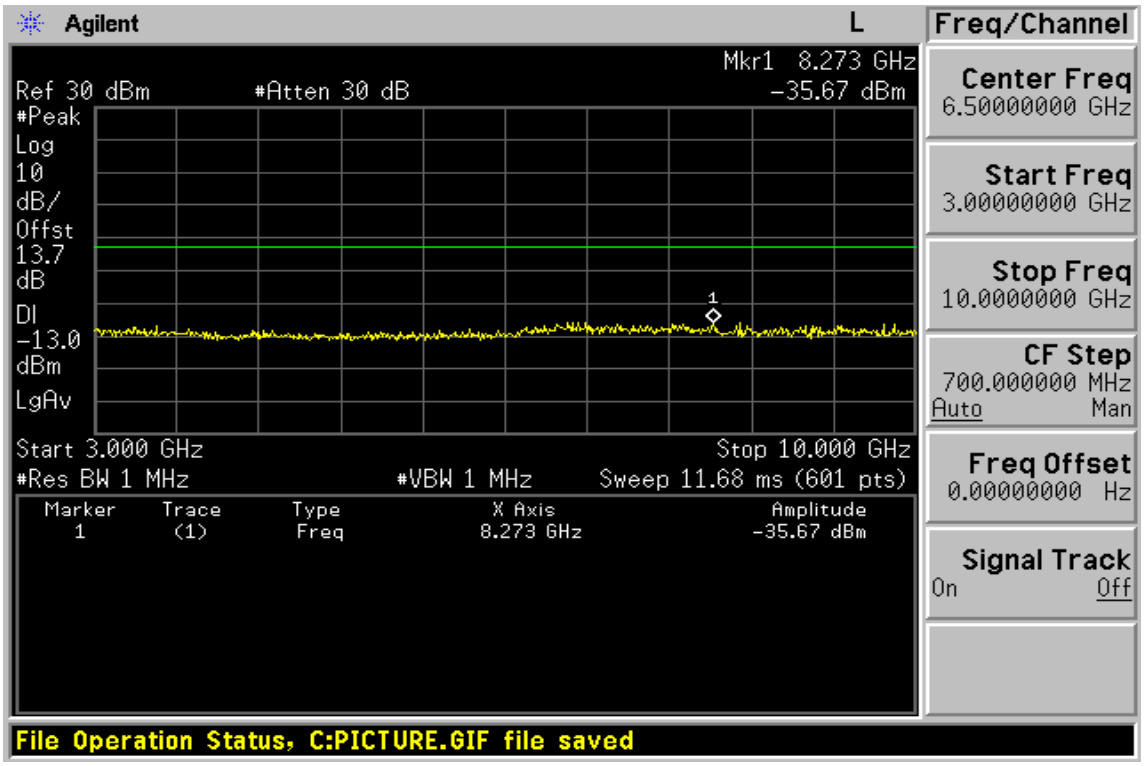
Test Mode 5MHz BW LTE-Band 5 Engineer :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
824.000	-24.99	-13.00	11.99
849.000	-24.62	-13.00	11.62

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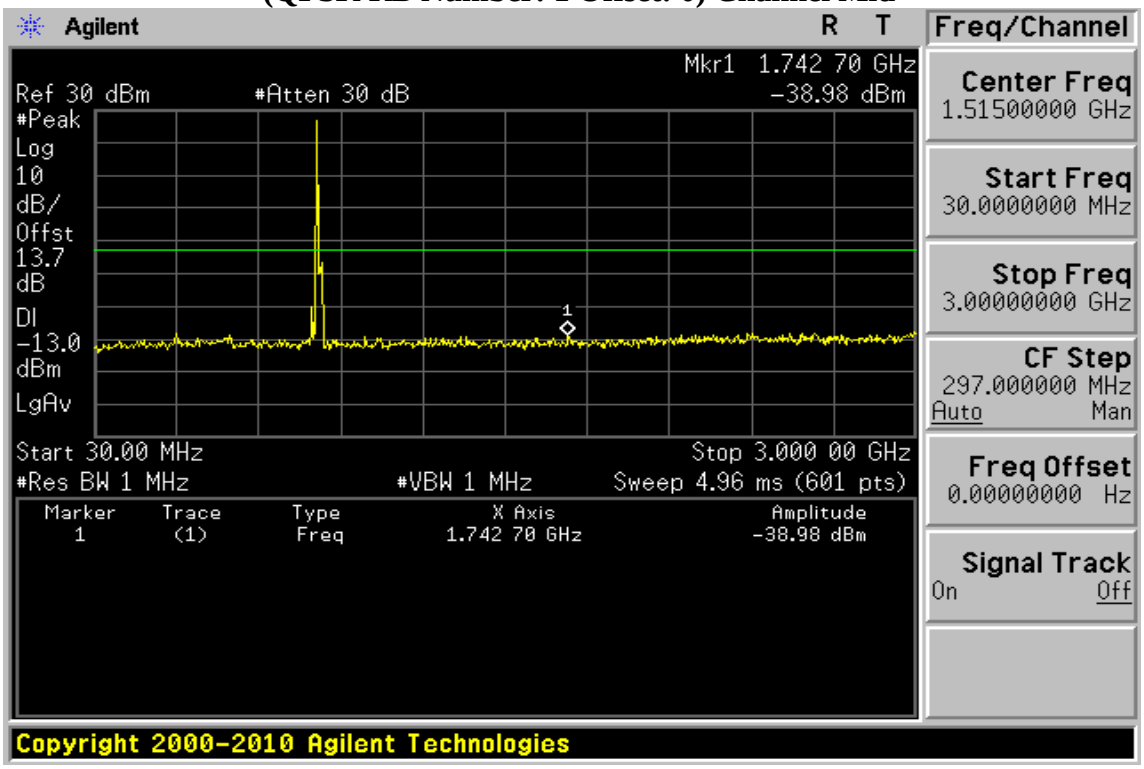
Figure 9-181: Out of Band emission at antenna terminals–10MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Lowest

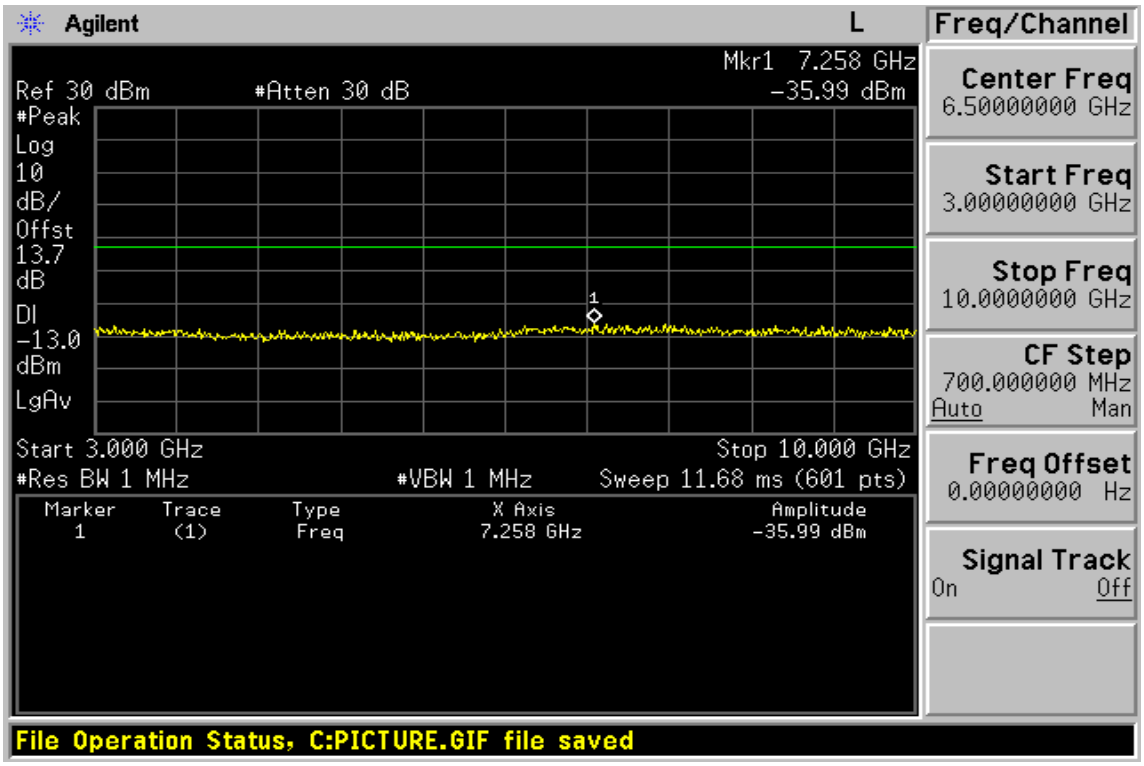




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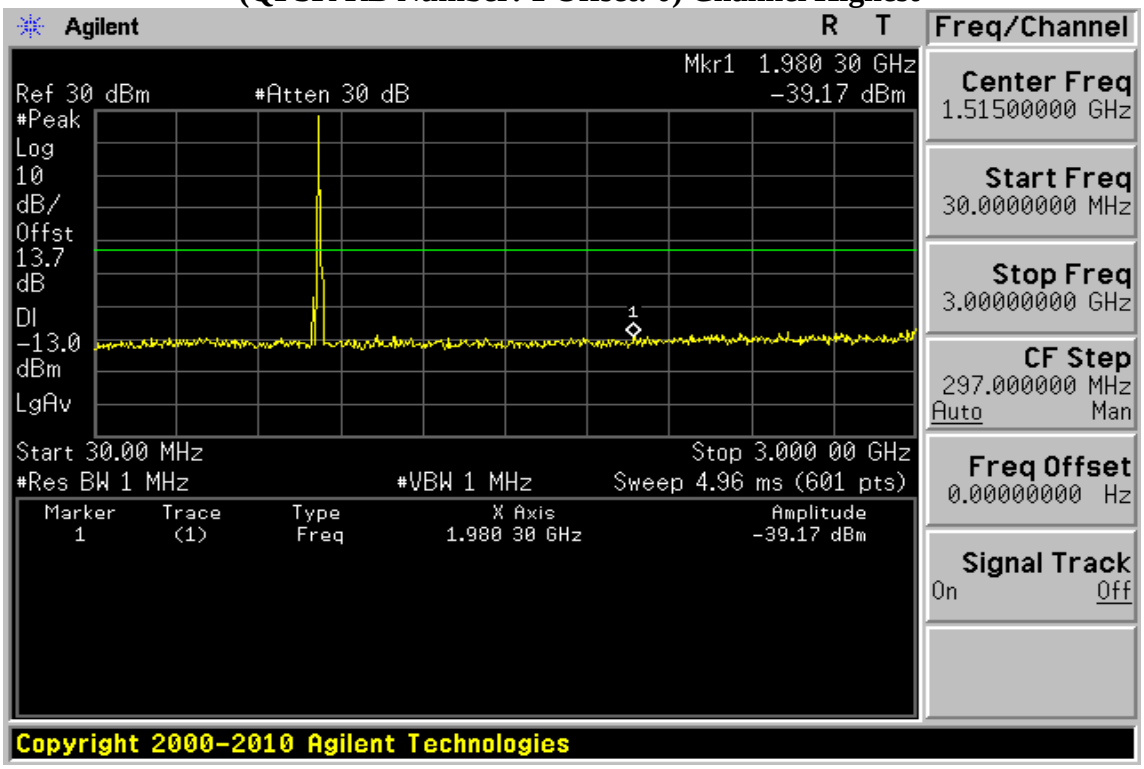
Figure 9-182: Out of Band emission at antenna terminals –10MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Mid

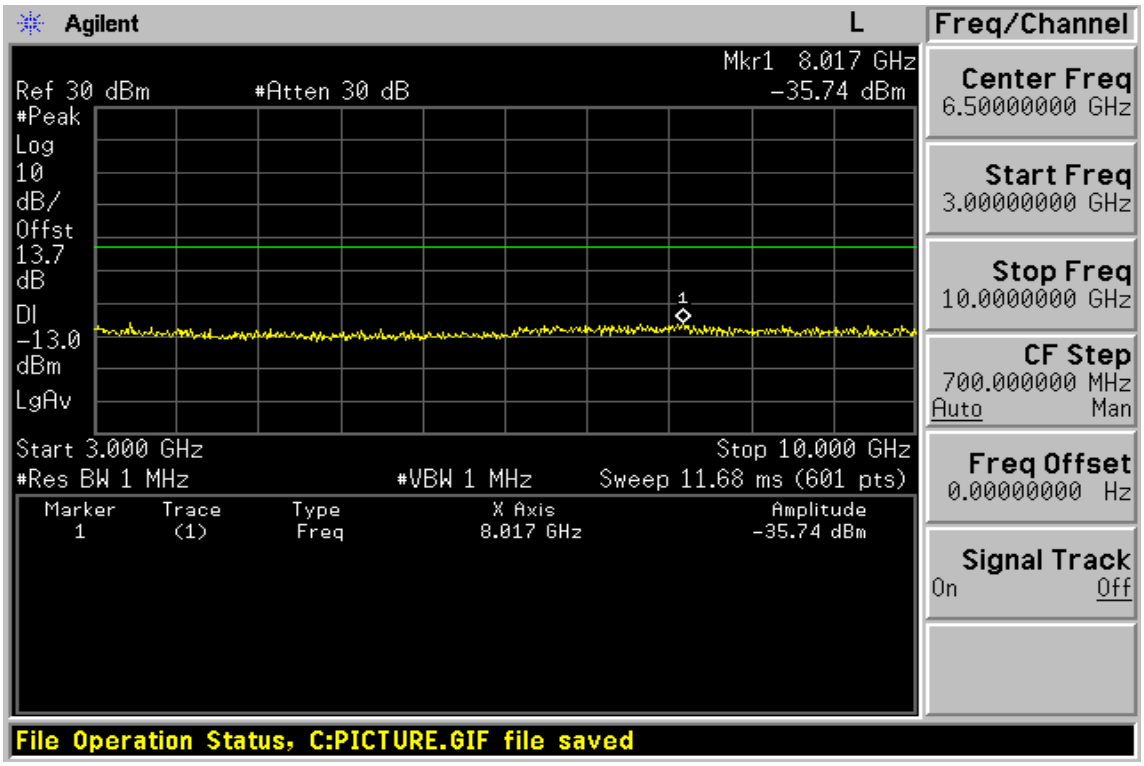




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Figure 9-183: Out of Band emission at antenna terminals–10MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Highest





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

(QPSK RB Number: 1 Offset: 0)

Fundamental Frequency :829.0 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	---
1658.00	H	---	-13.00	---
2487.00	H	---	-13.00	---
3316.00	H	---	-13.00	---
4145.00	H	---	-13.00	---
4974.00	H	---	-13.00	---
5803.00	H	---	-13.00	---
6632.00	H	---	-13.00	---
7461.00	H	---	-13.00	---
8273.00	S	-35.67	-13.00	22.67
8290.00	H	---	-13.00	---

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

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Fundamental Frequency :836.5 MHz Engineer :Nick
Operation Mode :TX Mid

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	H	---	-13.00	---
2509.50	H	---	-13.00	---
3346.00	H	---	-13.00	---
4182.50	H	---	-13.00	---
5019.00	H	---	-13.00	---
5855.50	H	---	-13.00	---
6692.00	H	---	-13.00	---
7258.00	S	-35.99	-13.00	22.99
7528.50	H	---	-13.00	---
8365.00	H	---	-13.00	---

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

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Fundamental Frequency :844.0 MHz Engineer :Nick
Operation Mode :TX High

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
<30	S	---	-13.00	---
30-1000	S	---	-13.00	---
1688.00	H	---	-13.00	---
2532.00	H	---	-13.00	---
3376.00	H	---	-13.00	---
4220.00	H	---	-13.00	---
5064.00	H	---	-13.00	---
5908.00	H	---	-13.00	---
6752.00	H	---	-13.00	---
7596.00	H	---	-13.00	---
8017.00	S	-35.74	-13.00	22.74
8440.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
“” : denotes Spurious Freque

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Figure 9-184: Band edge emission at antenna terminals –10MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Lowest

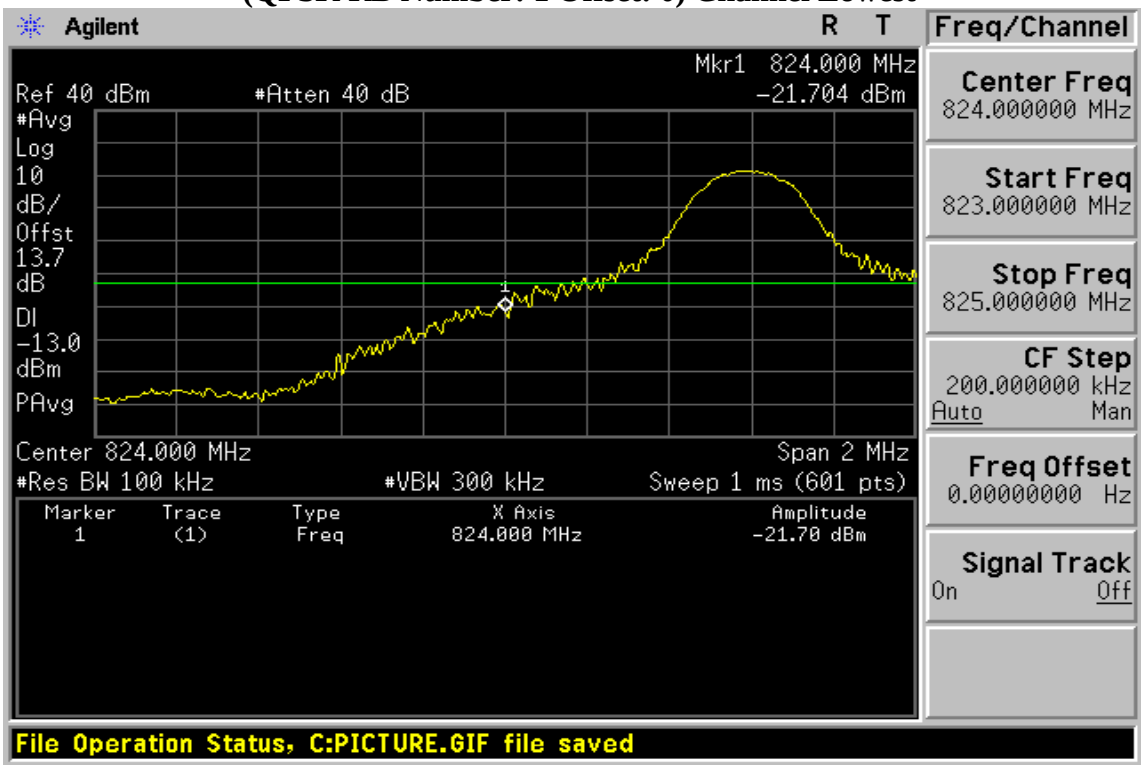
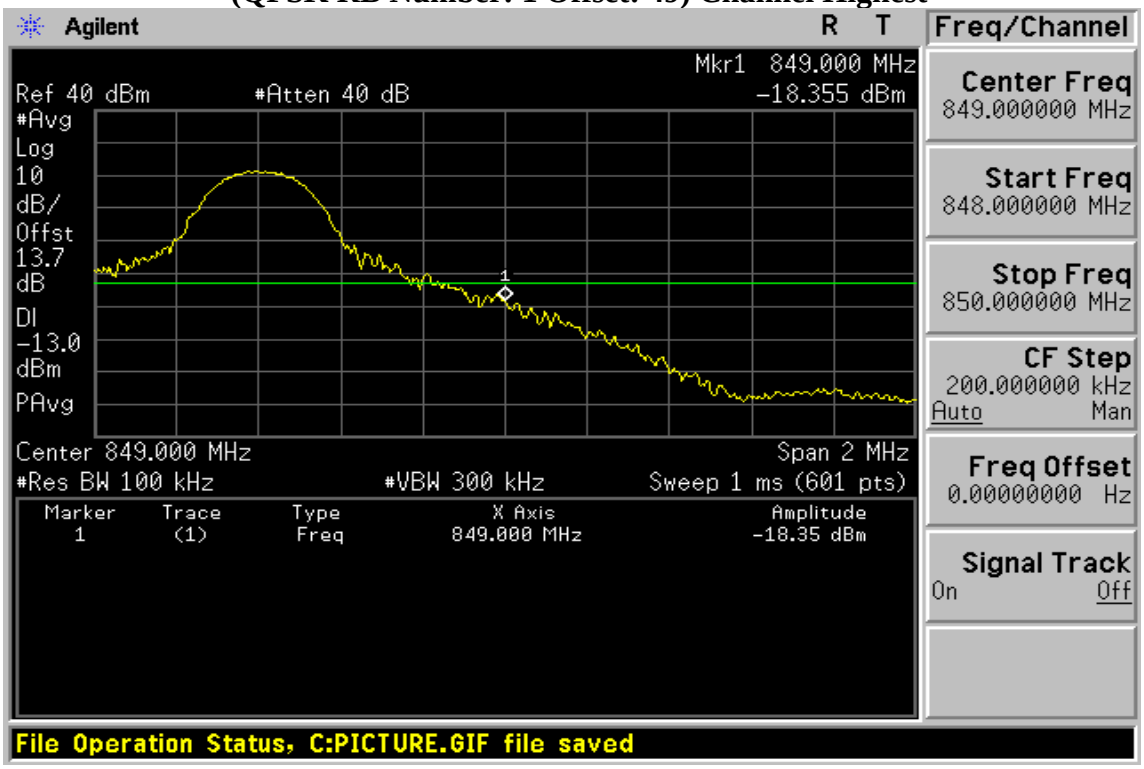


Figure 9-185: Band edge emission at antenna terminals –10MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 49) Channel Highest



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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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Figure 9-186: Band edge emission at antenna terminals –10MHz BW LTE-Band 5 (QPSK RB Number: 50 Offset: 0) Channel Lowest

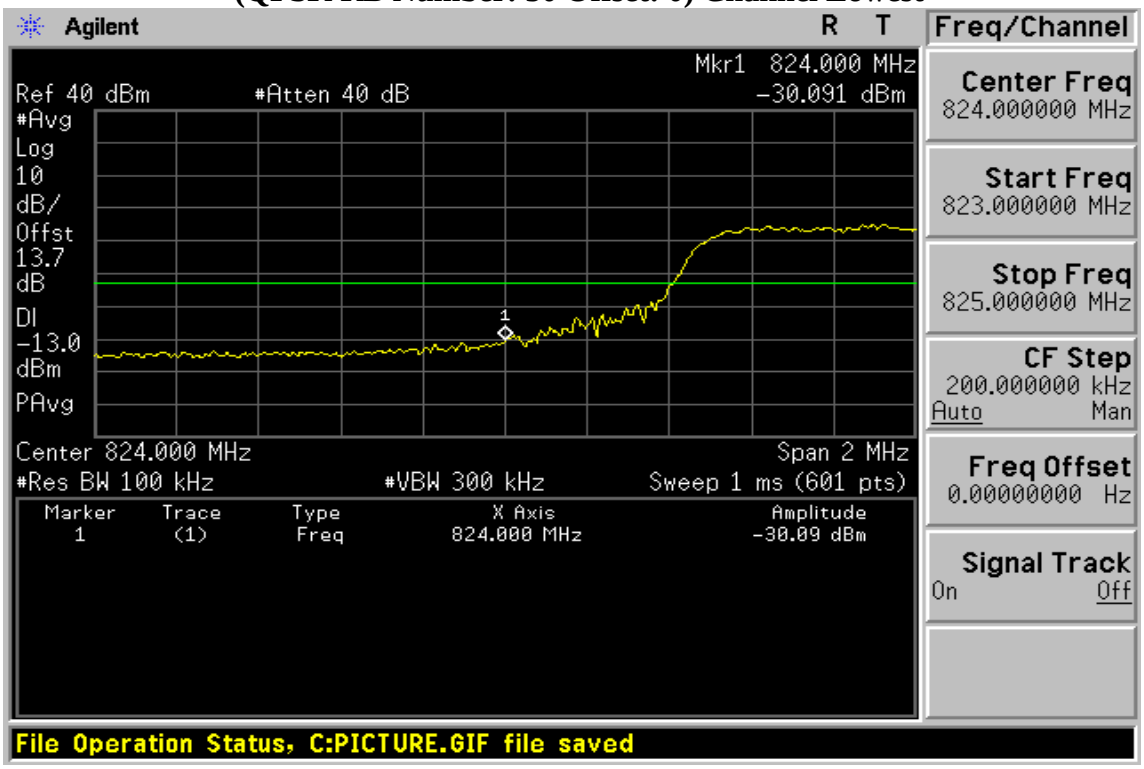
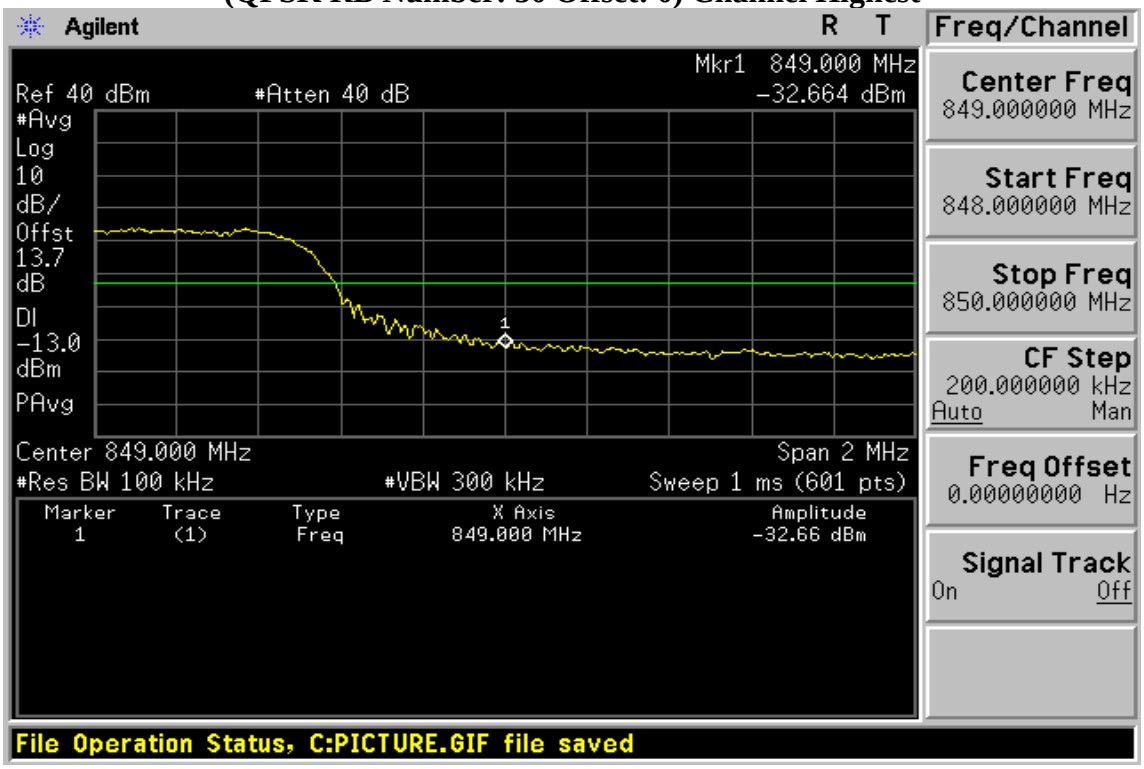


Figure 9-187: Band edge emission at antenna terminals –10MHz BW LTE-Band 5 (QPSK RB Number: 50 Offset: 0) Channel Highest



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

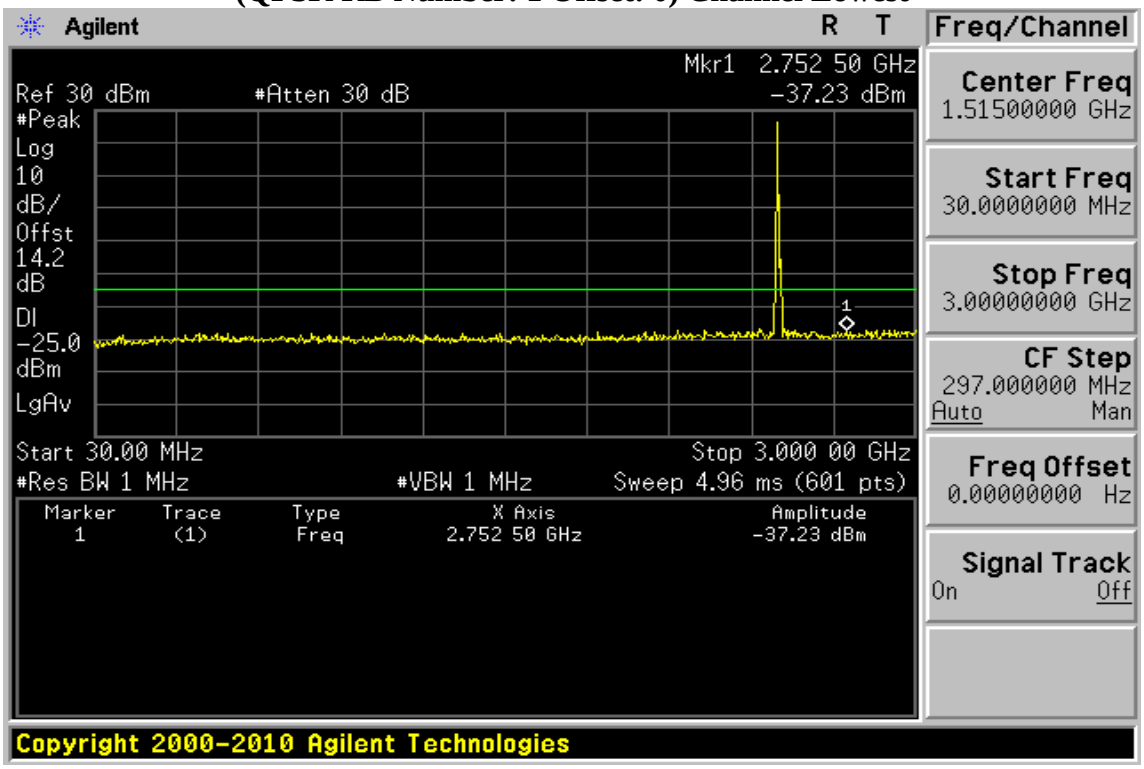
(QPSK RB Number: 50 Offset: 0)

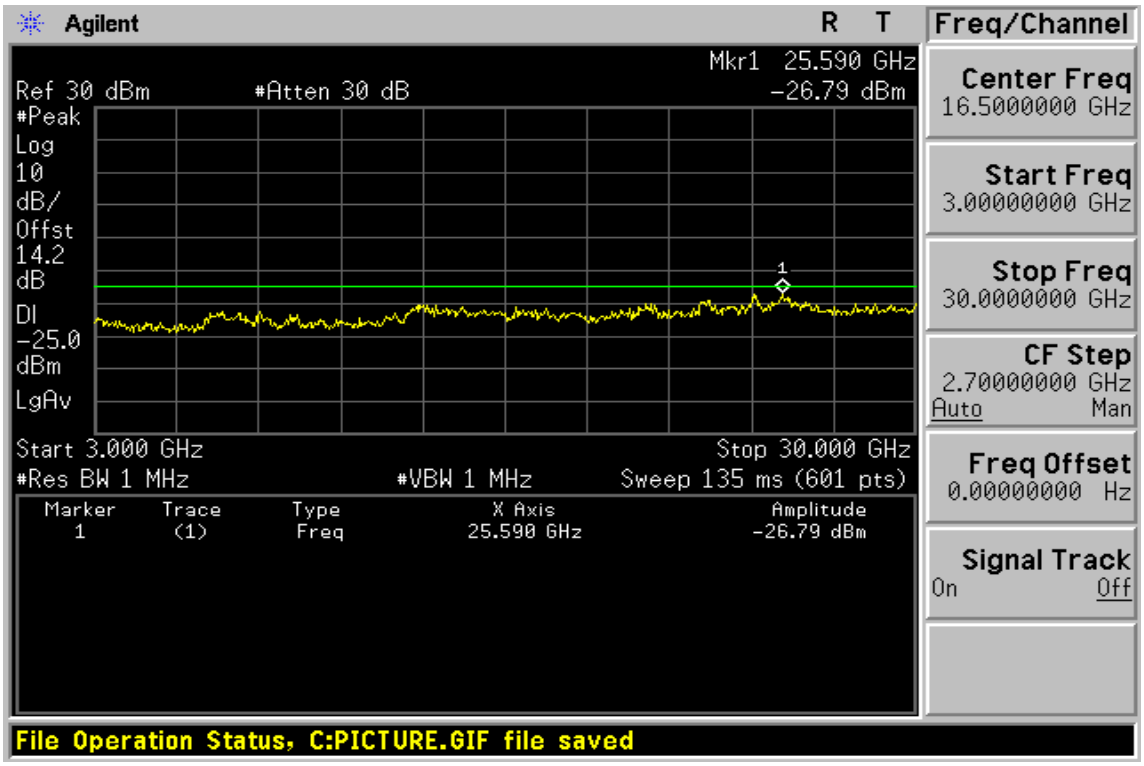
Test Mode 10MHz BW LTE-Band 5 Engineer :Nick

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
824.000	-30.09	-13.00	17.09
849.000	-32.66	-13.00	19.66

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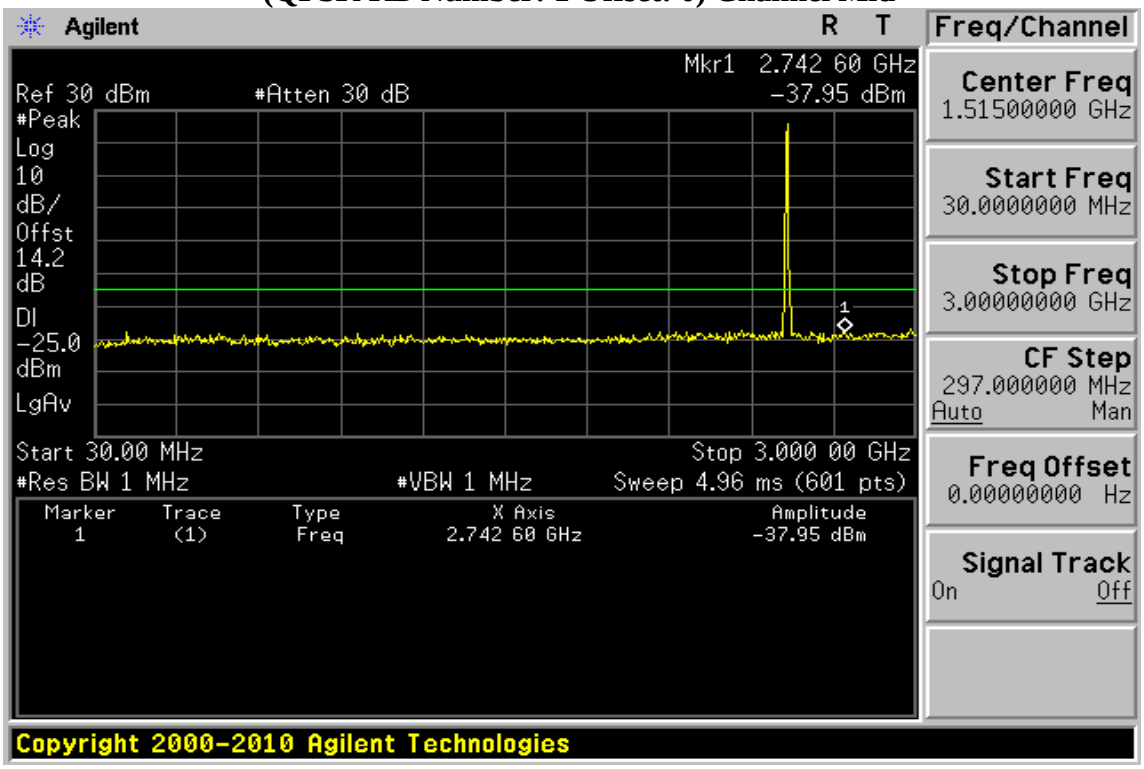
Figure 9-188: Out of Band emission at antenna terminals–5MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Lowest

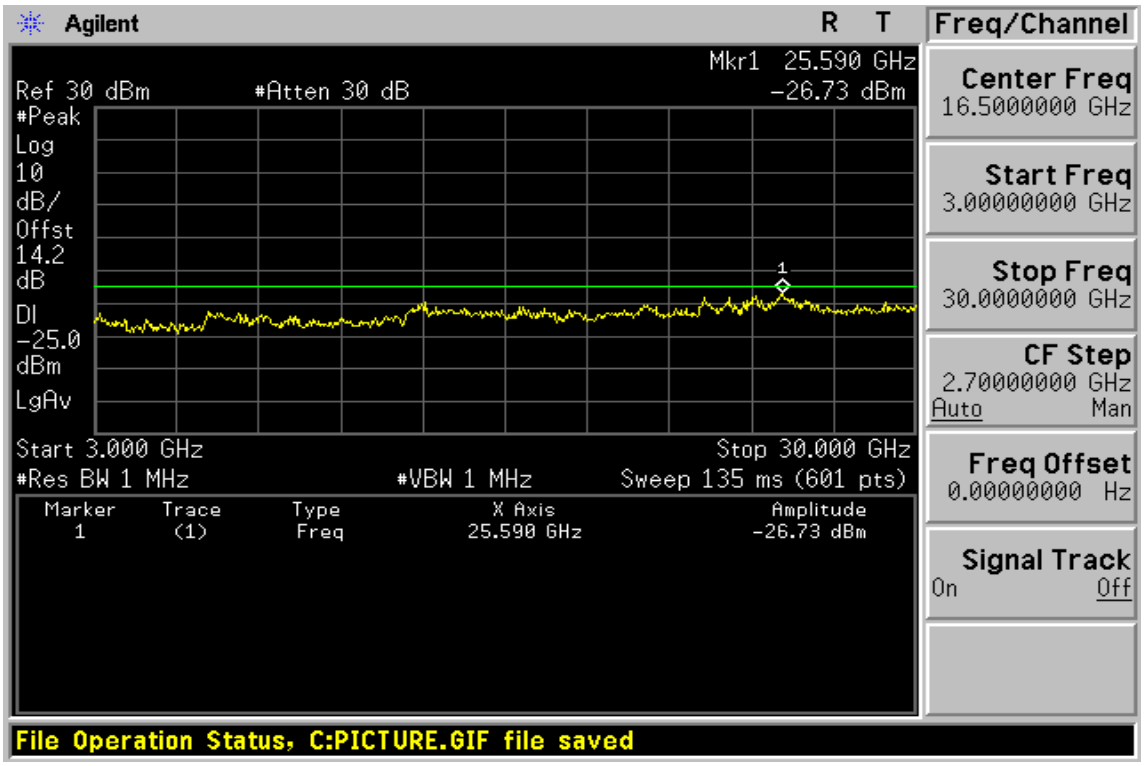




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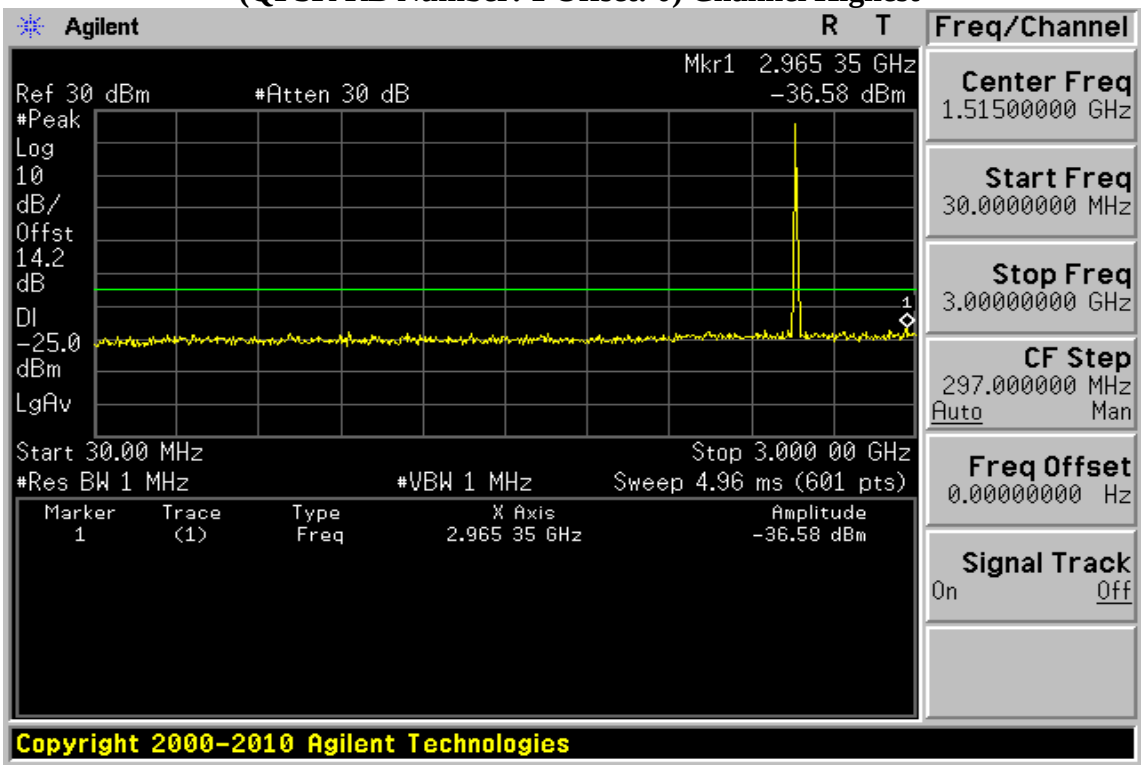
Figure 9-189: Out of Band emission at antenna terminals –5MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Mid

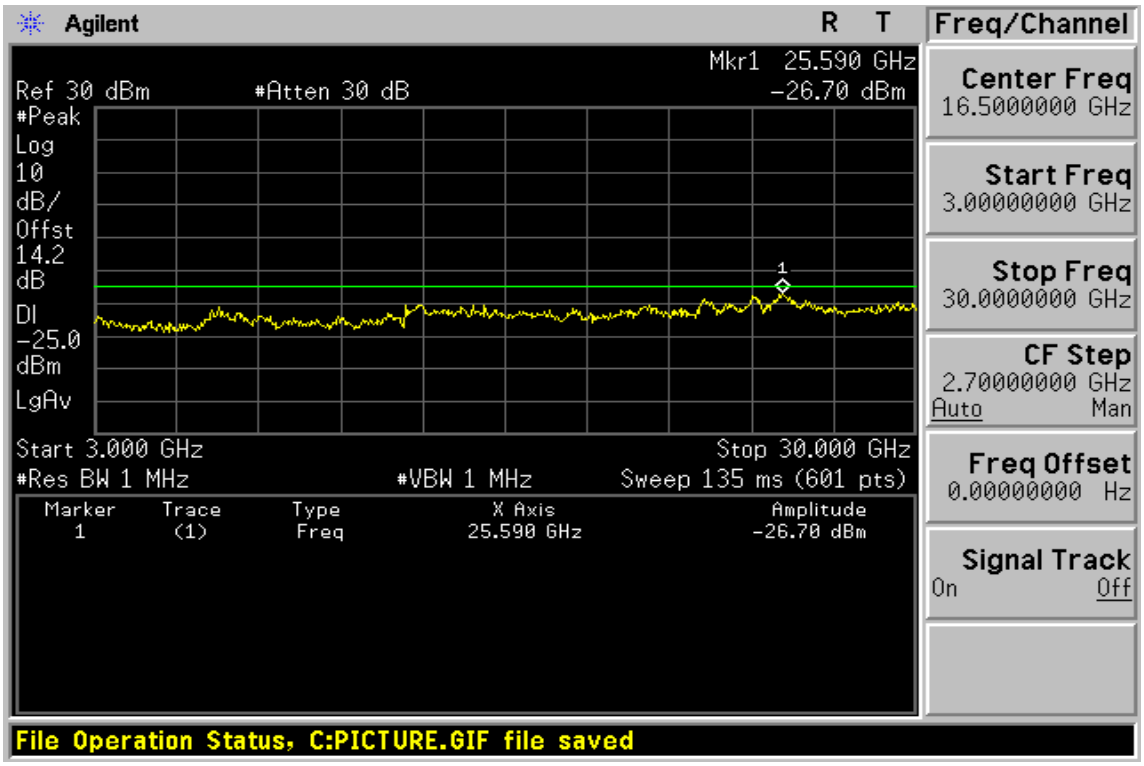




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Figure 9-190: Out of Band emission at antenna terminals–5MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Highest





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

(QPSK RB Number: 1 Offset: 0)

Fundamental Frequency :2502.5 MHz Engineer :Marcus
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	---
5005.00	H	---	-13.00	---
7507.50	H	---	-13.00	---
10010.00	H	---	-13.00	---
12512.50	H	---	-13.00	---
15015.00	H	---	-13.00	---
17517.50	H	---	-13.00	---
20020.00	H	---	-13.00	---
22522.50	H	---	-13.00	---
25025.00	H	---	-13.00	---
25590.00	S	-26.79	-13.00	13.79

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

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Fundamental Frequency :2535 MHz Engineer :Marcus
Operation Mode :TX Mid

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	H	---	-13.00	---
7605.00	H	---	-13.00	---
10140.00	H	---	-13.00	---
12675.00	H	---	-13.00	---
15210.00	H	---	-13.00	---
17745.00	H	---	-13.00	---
20280.00	H	---	-13.00	---
22815.00	H	---	-13.00	---
25350.00	H	---	-13.00	---
25590.00	S	-26.73	-13.00	13.73

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

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Fundamental Frequency :2567.5MHz Engineer :Marcus
Operation Mode :TX High

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	H	---	-13.00	---
7702.50	H	---	-13.00	---
10270.00	H	---	-13.00	---
12837.50	H	---	-13.00	---
15405.00	H	---	-13.00	---
17972.50	H	---	-13.00	---
20540.00	H	---	-13.00	---
23107.50	H	---	-13.00	---
25590.00	S	-26.70	-13.00	13.70
25675.00	H	---	-13.00	---

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

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Figure 9-191: Band edge emission at antenna terminals –5MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Lowest

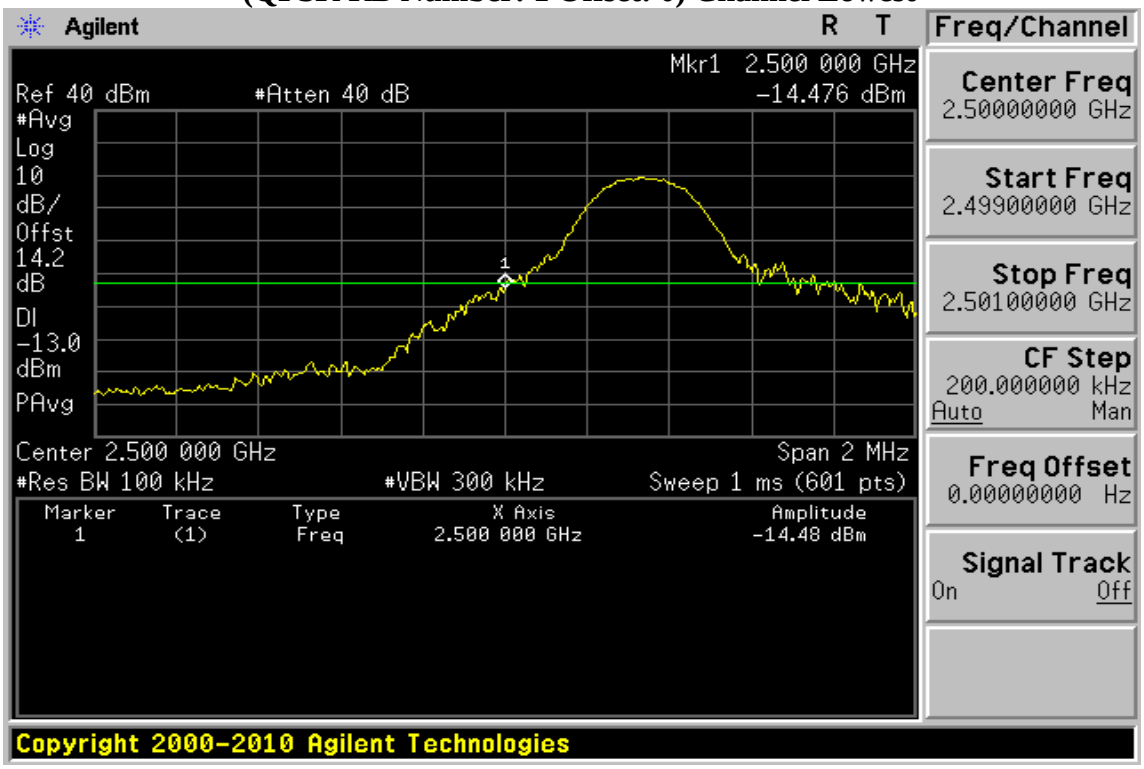
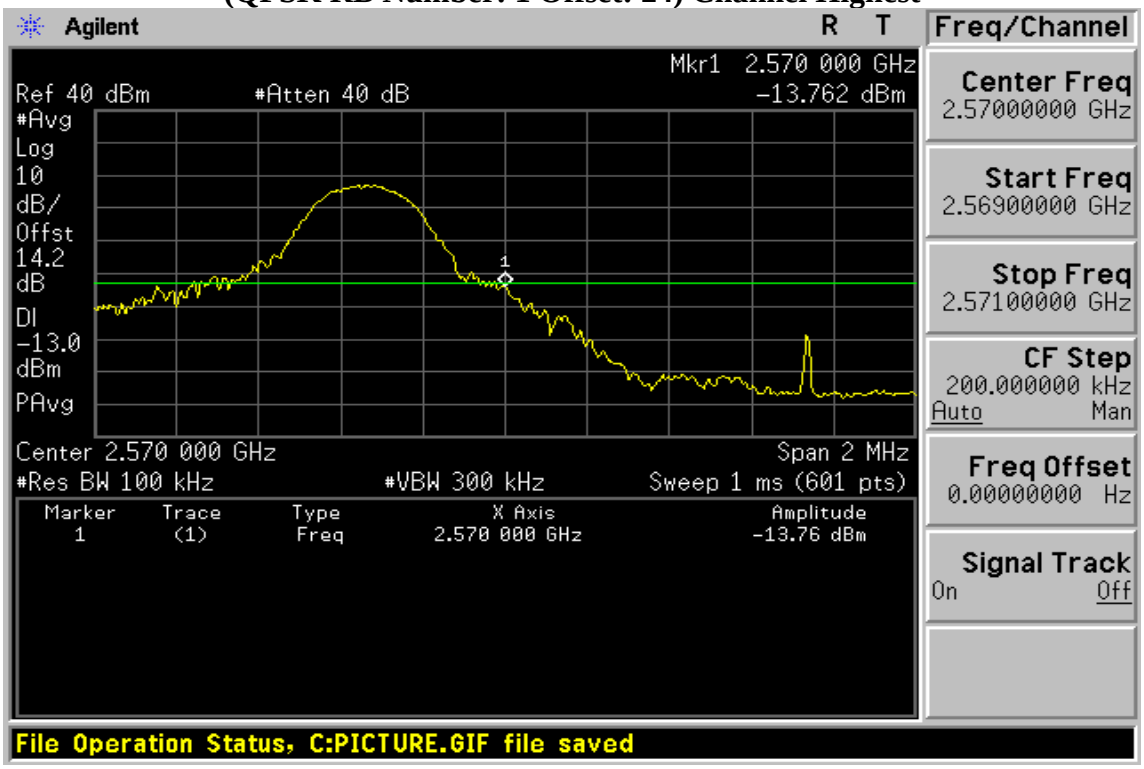


Figure 9-192: Band edge emission at antenna terminals –5MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 24) Channel Highest



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

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

Test Mode 5MHz BW LTE-Band 7 Engineer :Marcus

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
2500.000	-14.48	-13.00	1.48
2570.000	-13.76	-13.00	0.76

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Figure 9-193: Band edge emission at antenna terminals –5MHz BW LTE-Band 7 (QPSK RB Number: 25 Offset: 0) Channel Lowest

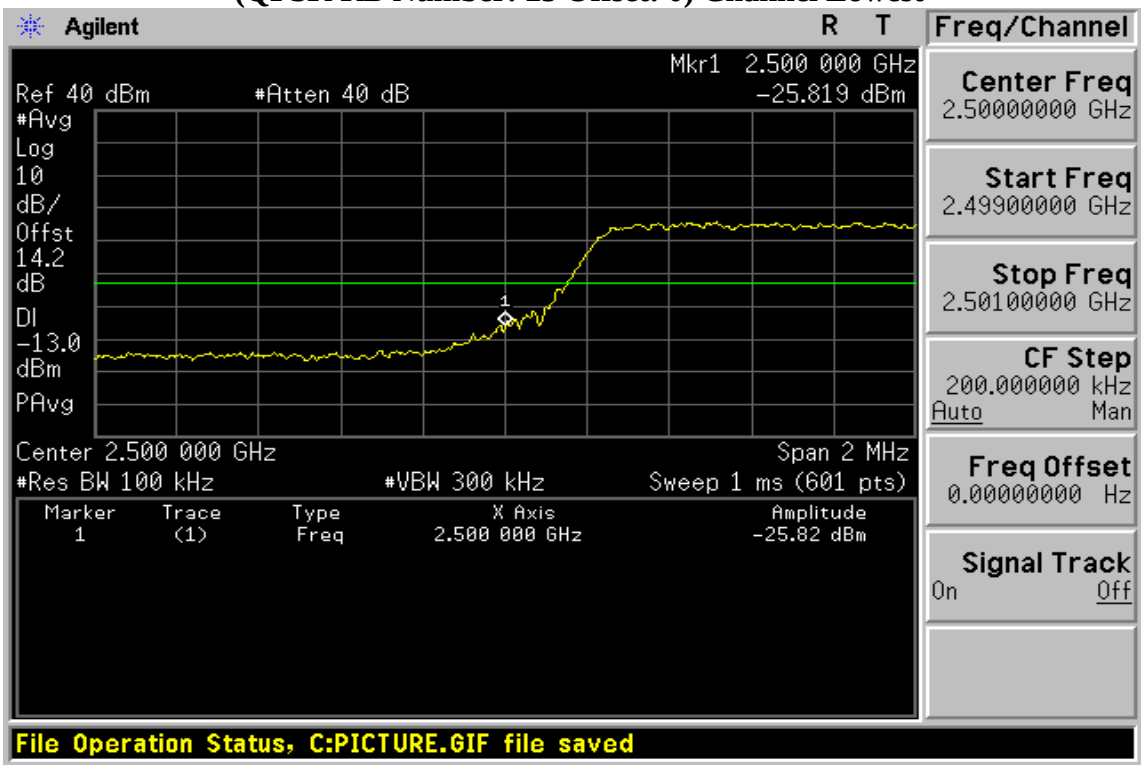
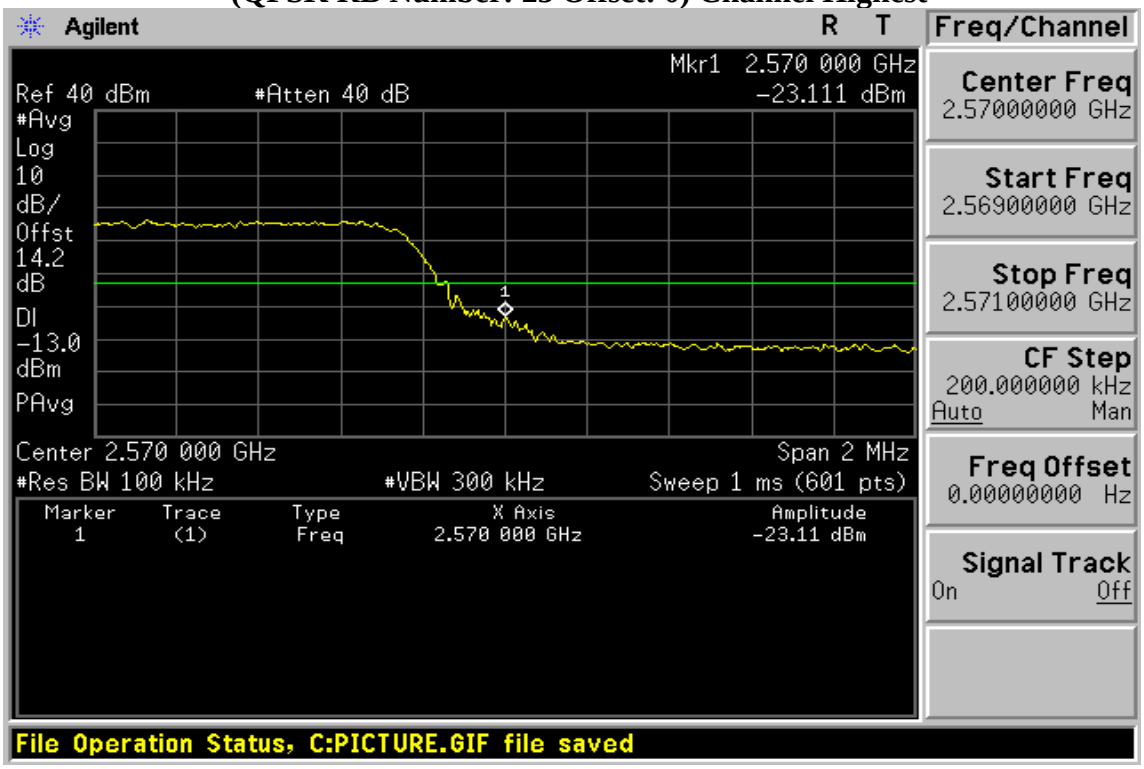


Figure 9-194: Band edge emission at antenna terminals –5MHz BW LTE-Band 7 (QPSK RB Number: 25 Offset: 0) Channel Highest



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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 LTE-Band 7 Engineer :Marcus

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
2500.000	-25.82	-13.00	12.82
2570.000	-23.11	-13.00	10.11

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Figure 9-195: Emission MASK at antenna terminals –5MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Lowest

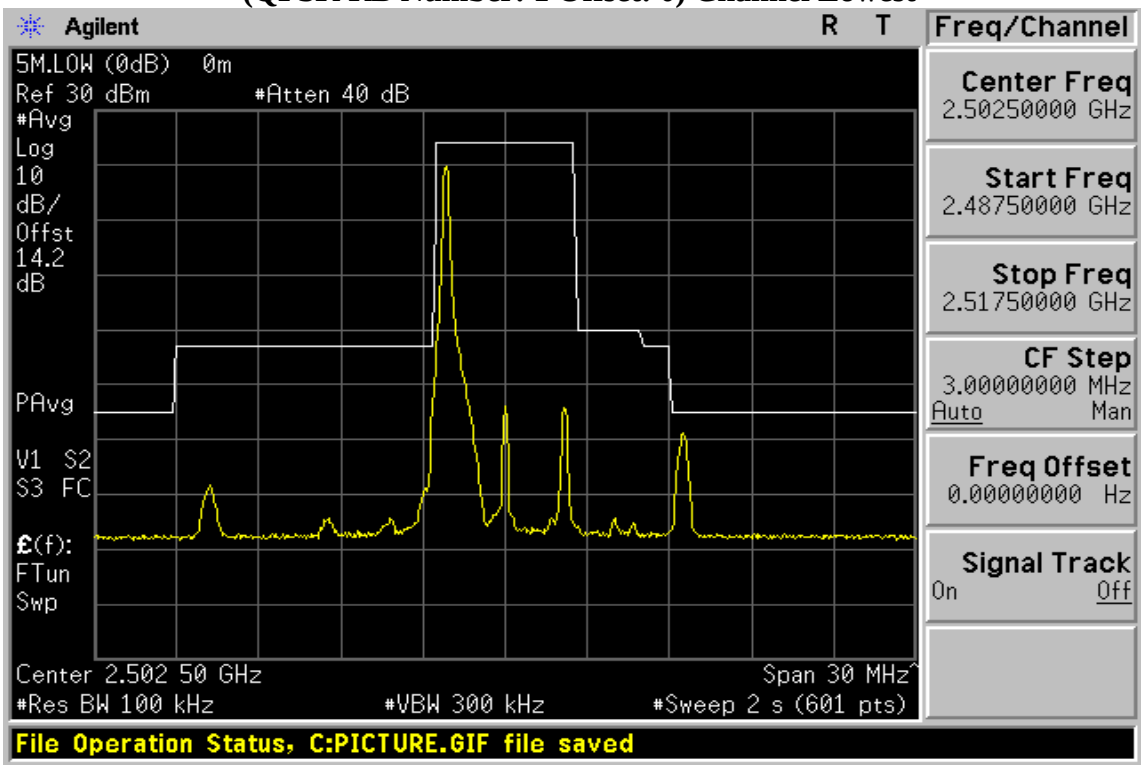
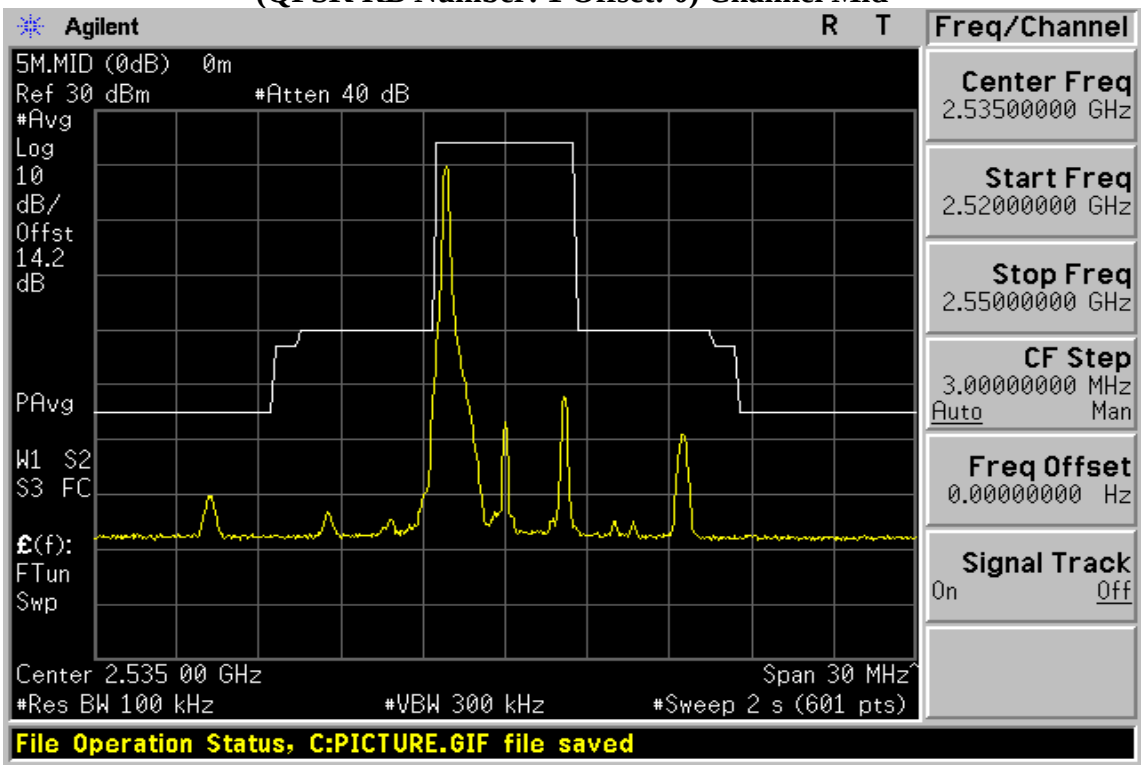


Figure 9-196: Emission MASK at antenna terminals –5MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Mid



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Figure 9-197: Emission MASK at antenna terminals –5MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Highest

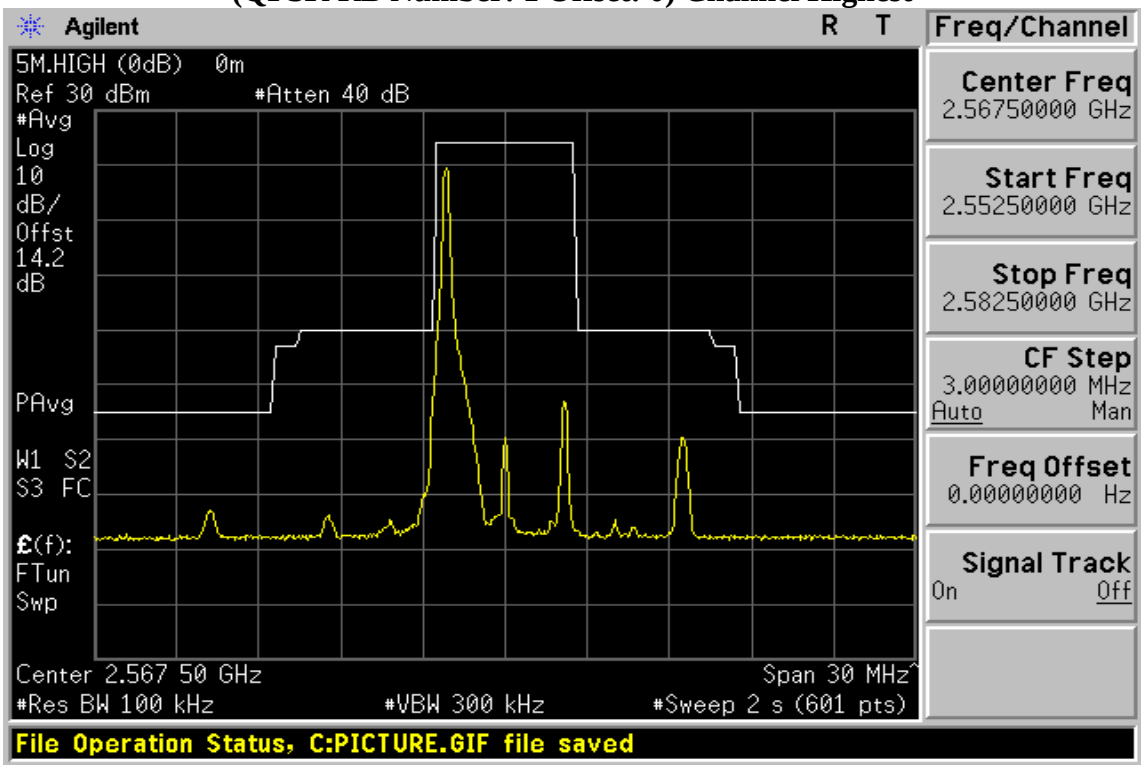
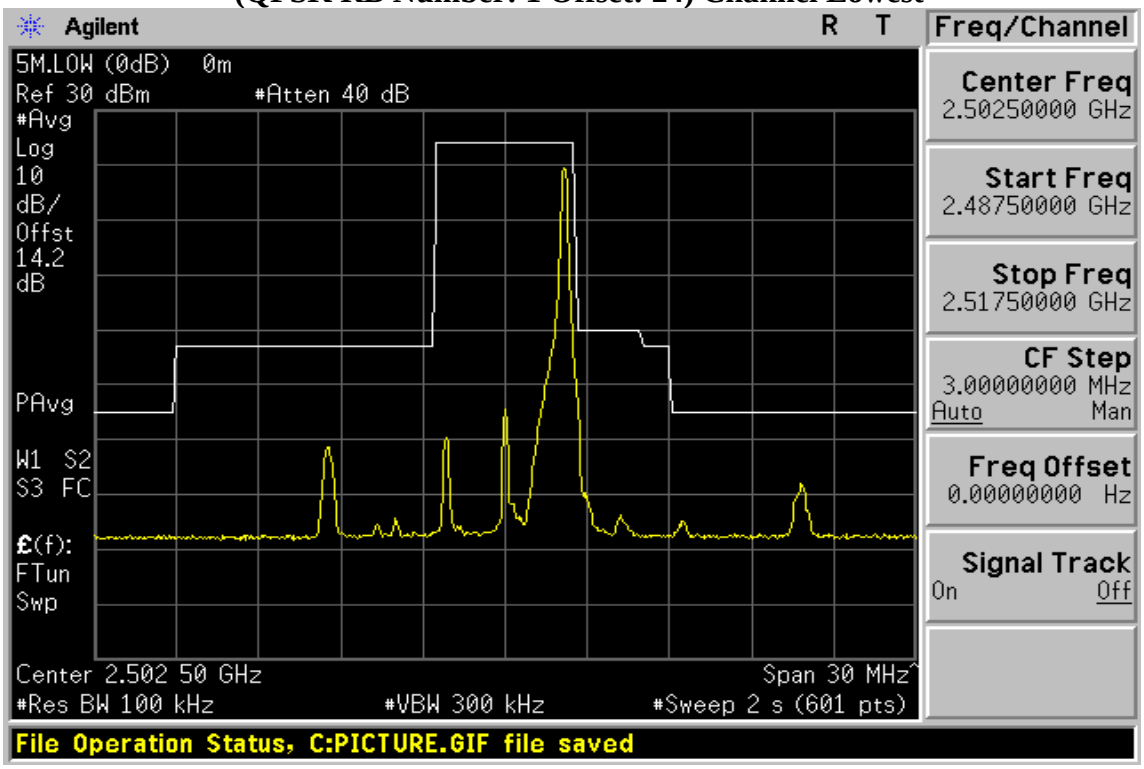


Figure 9-198: Emission MASK at antenna terminals –5MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 24) Channel Lowest



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Figure 9-199: Emission MASK at antenna terminals –5MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 24) Channel Mid

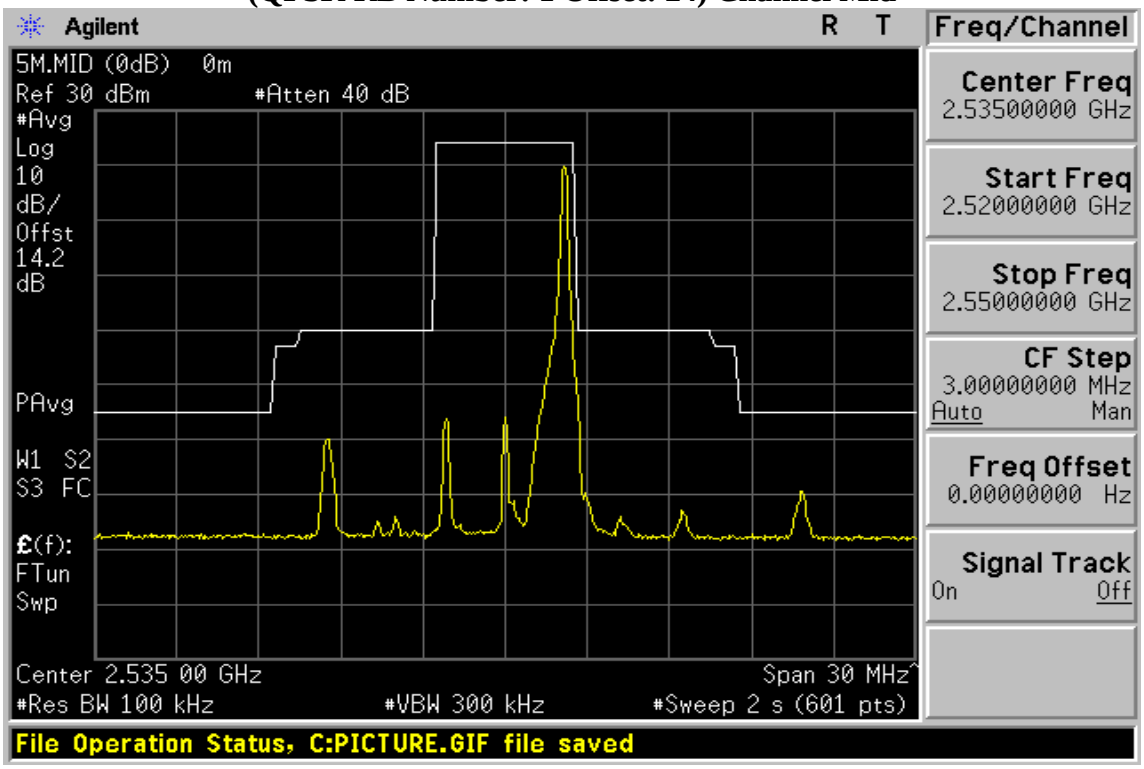
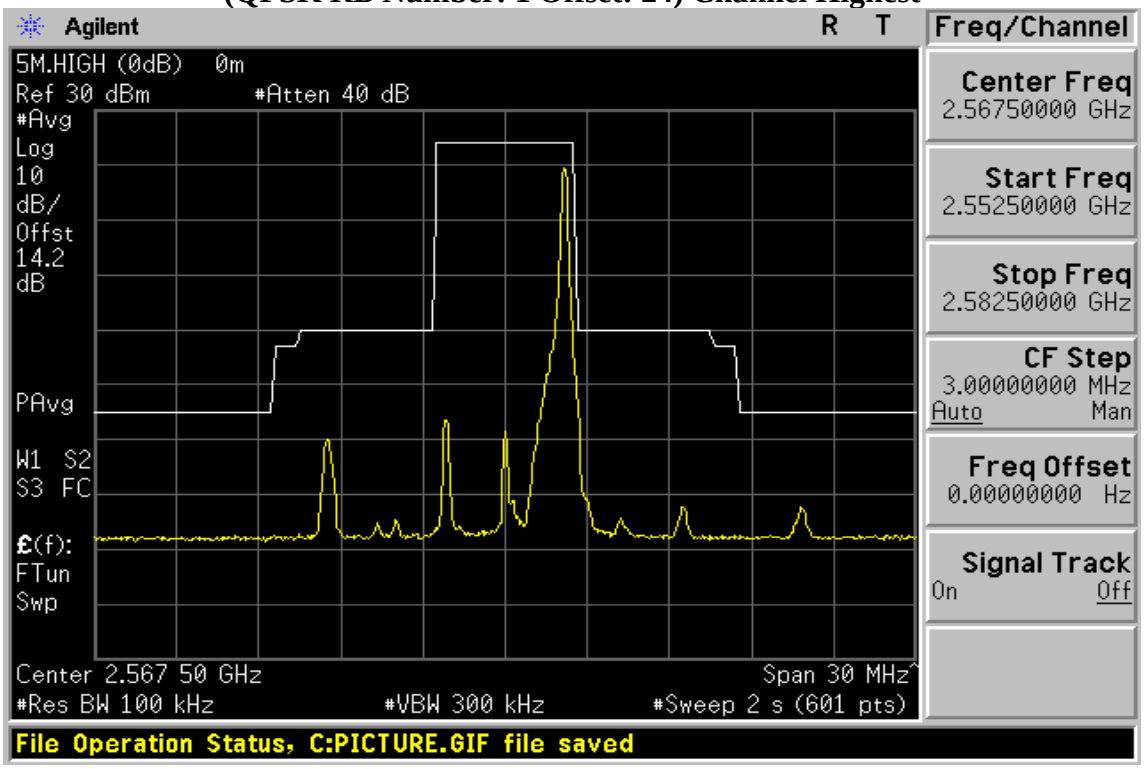


Figure 9-200: Emission MASK at antenna terminals –5MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 24) Channel Highest



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Figure 9-201: Emission MASK at antenna terminals –5MHz BW LTE-Band 7 (QPSK RB Number: 25 Offset: 0) Channel Lowest

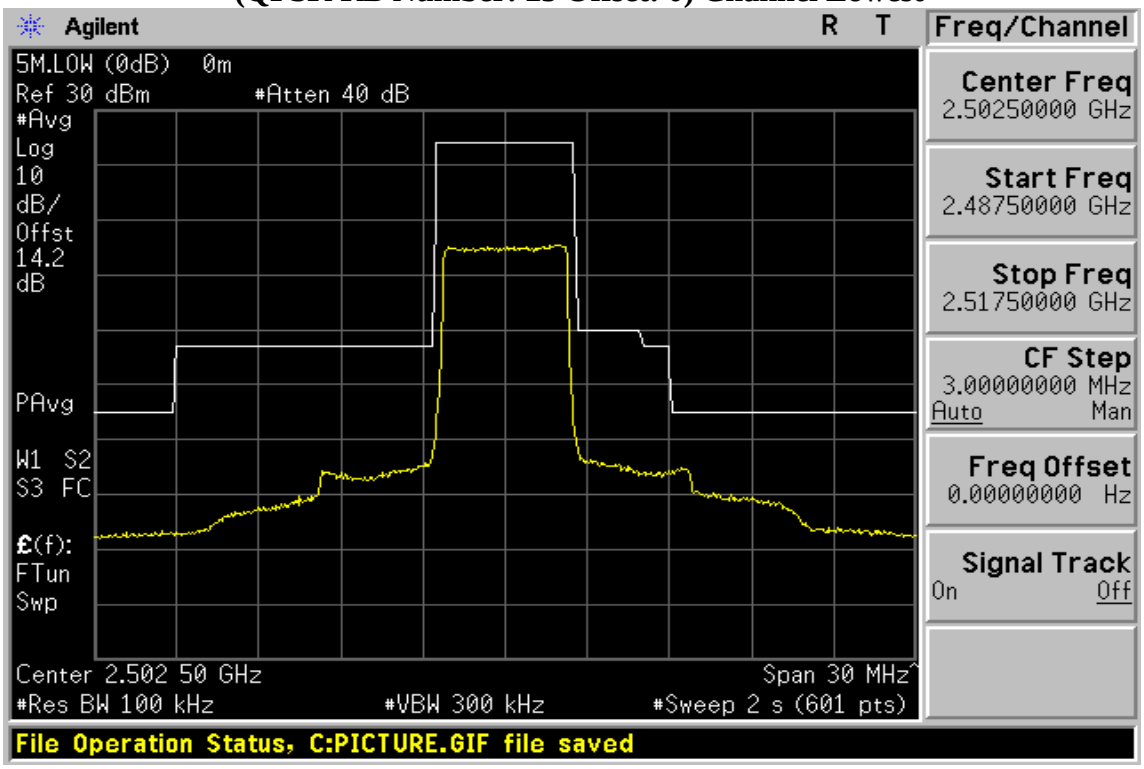
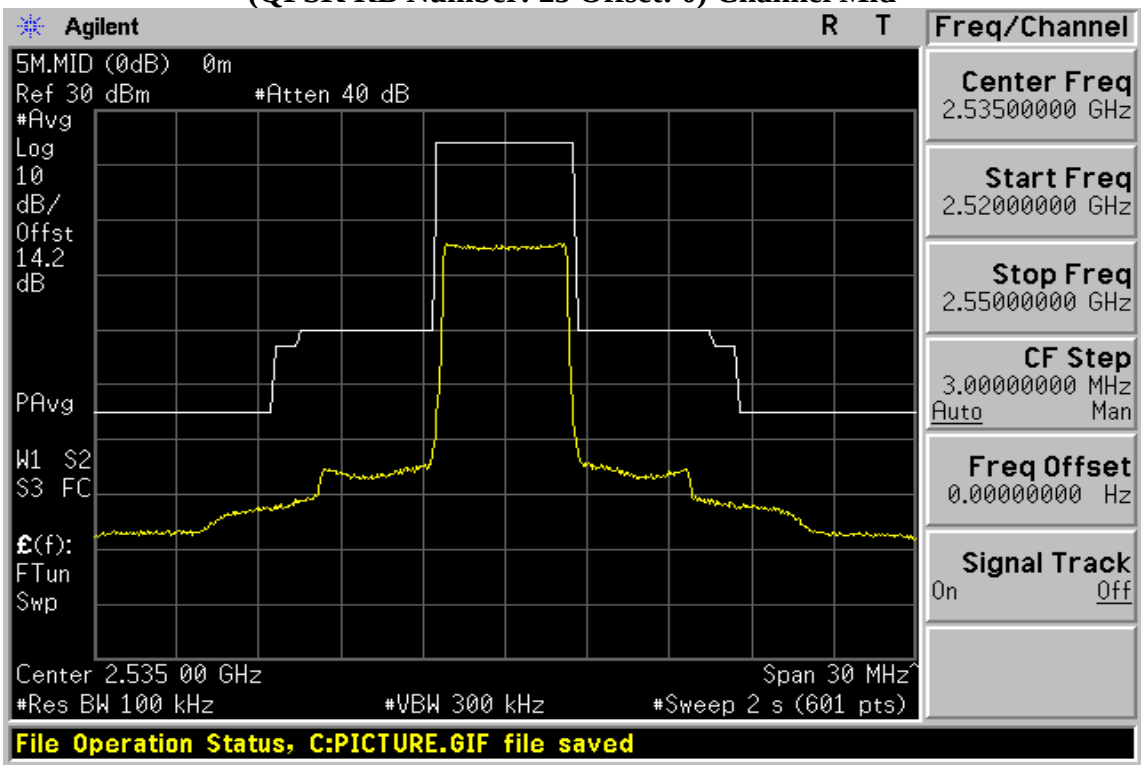
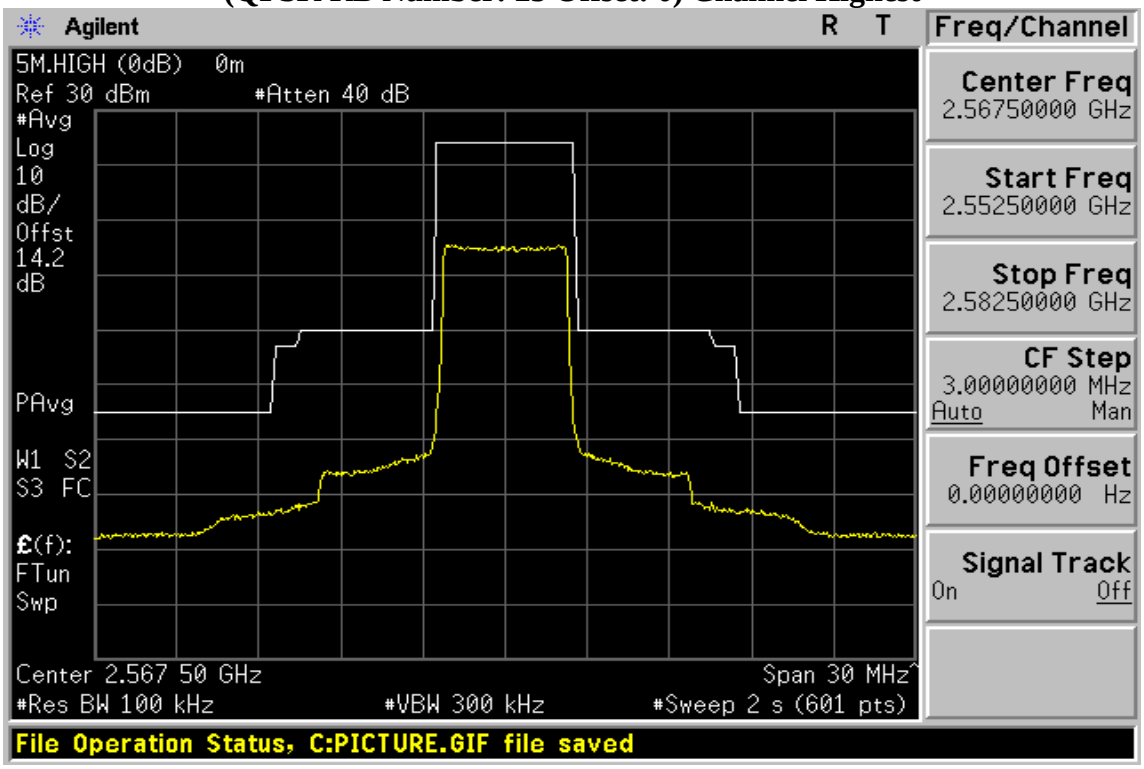


Figure 9-202: Emission MASK at antenna terminals –5MHz BW LTE-Band 7 (QPSK RB Number: 25 Offset: 0) Channel Mid



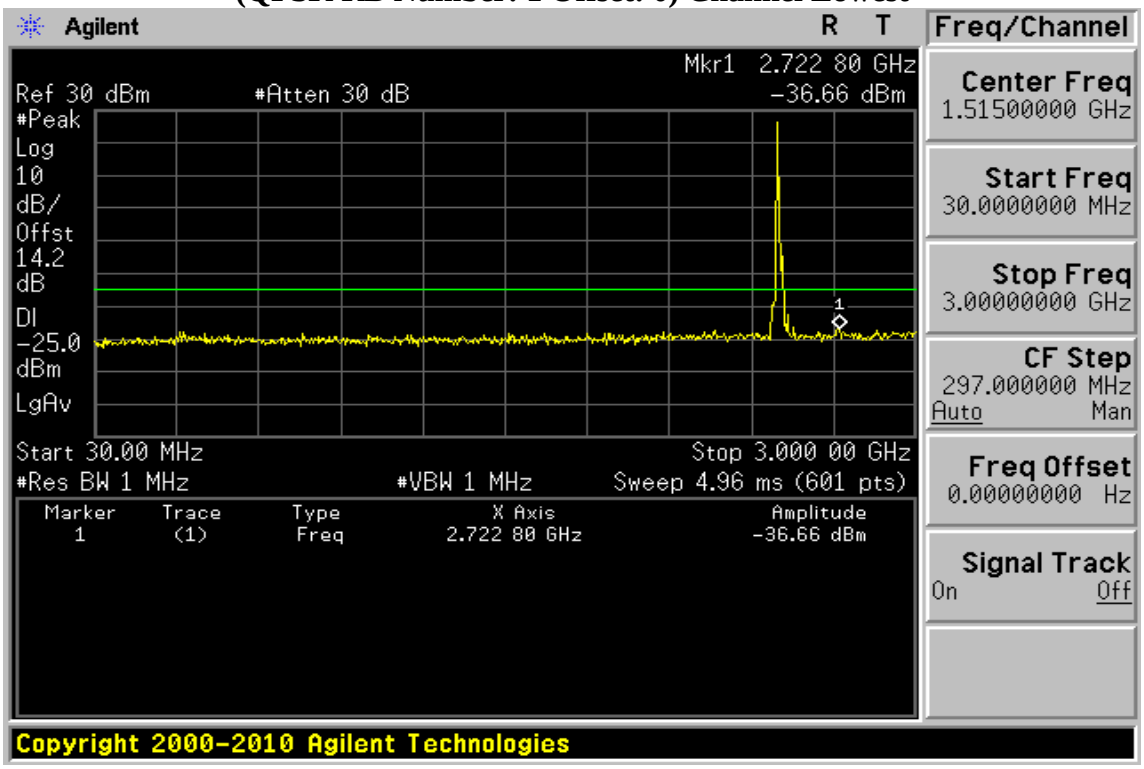
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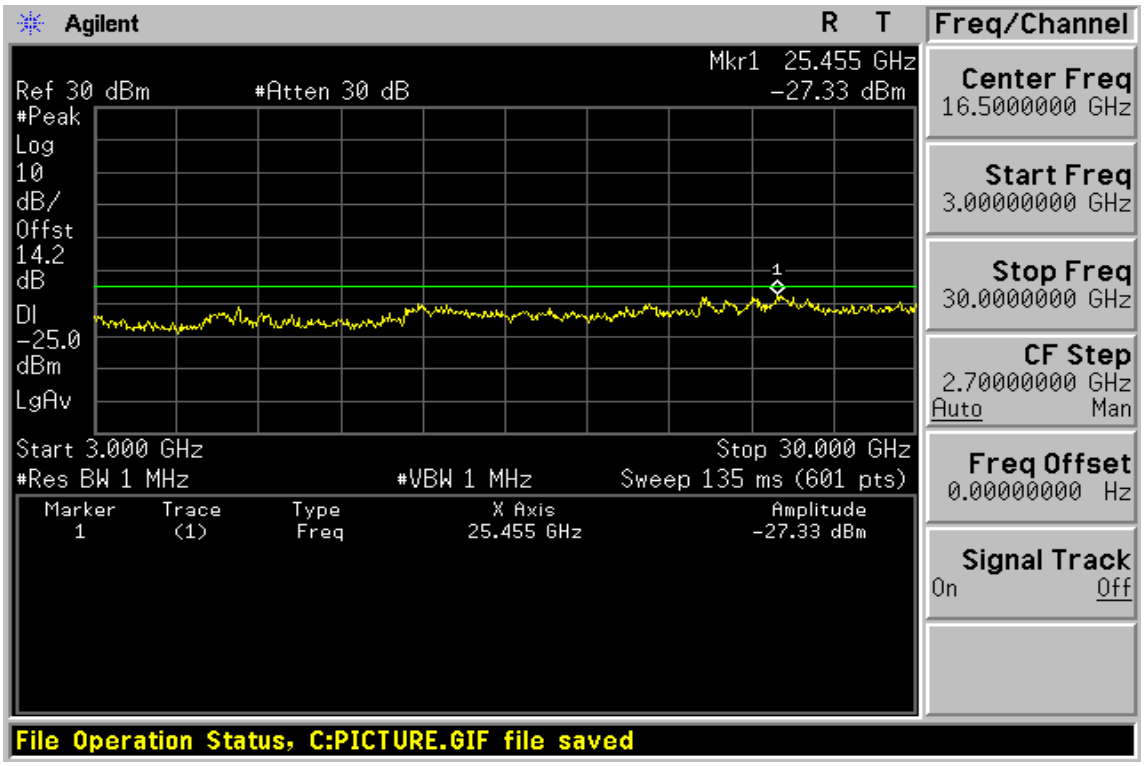
Figure 9-203: Emission MASK at antenna terminals –5MHz BW LTE-Band 7 (QPSK RB Number: 25 Offset: 0) Channel Highest



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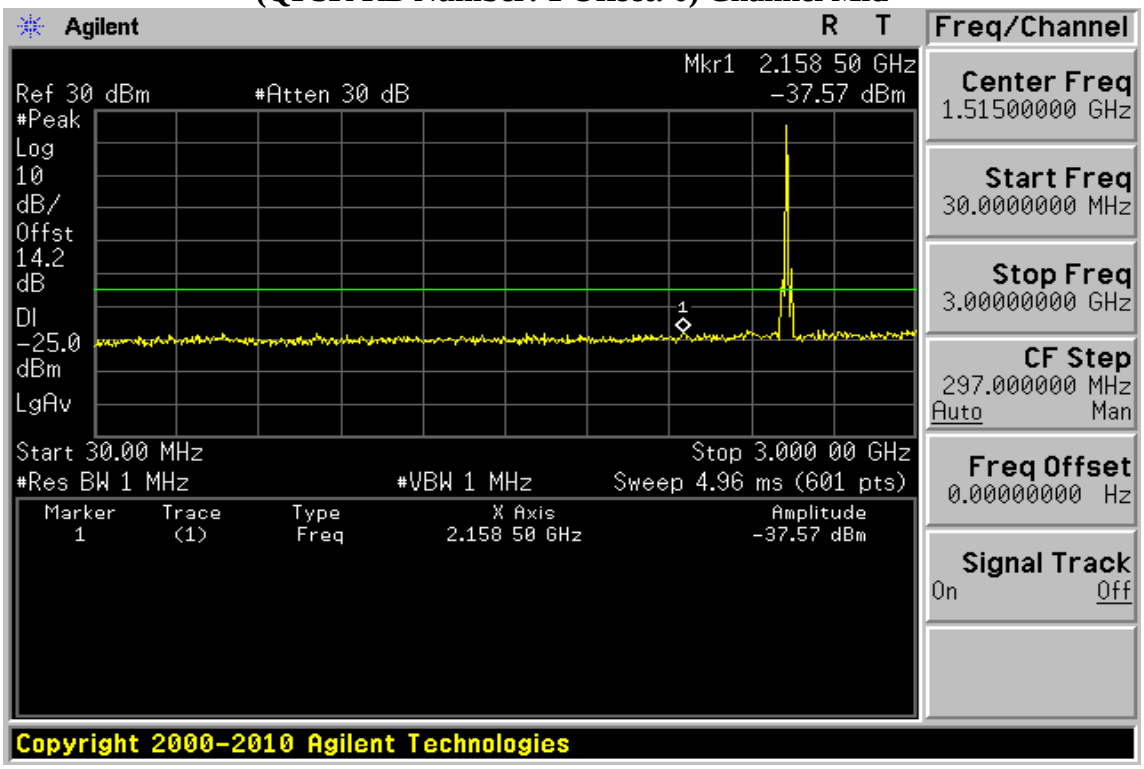
Figure 9-204: Out of Band emission at antenna terminals–10MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Lowest

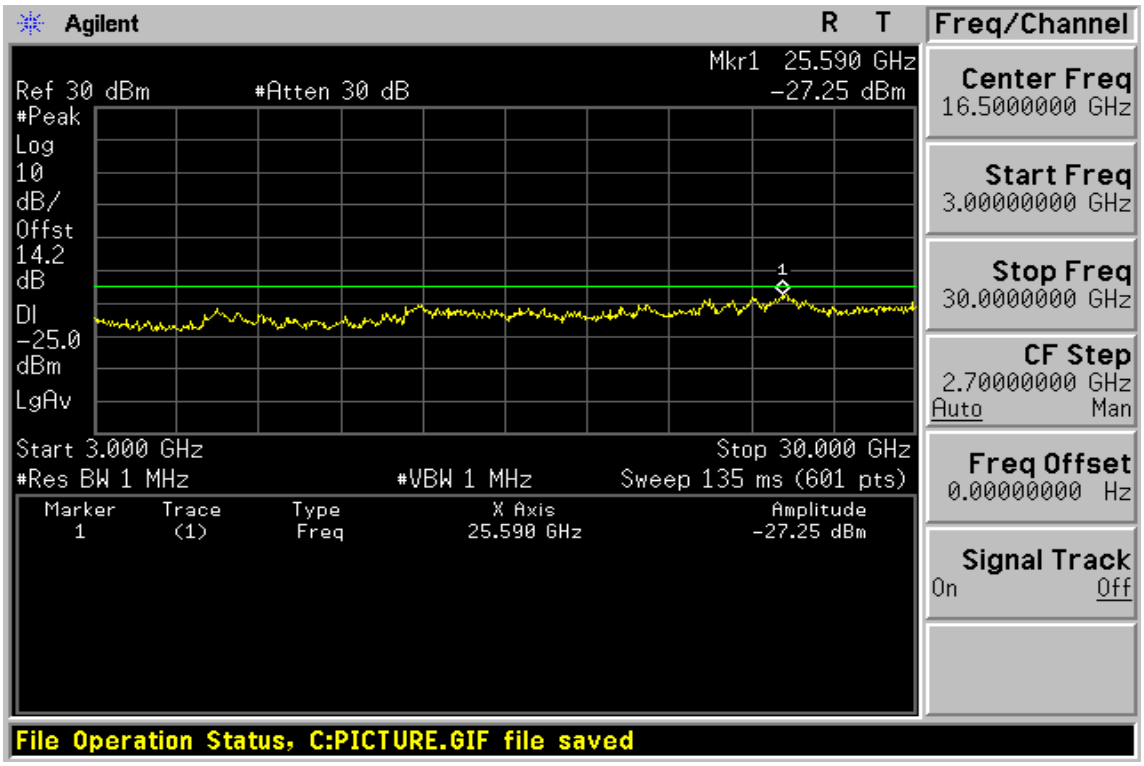




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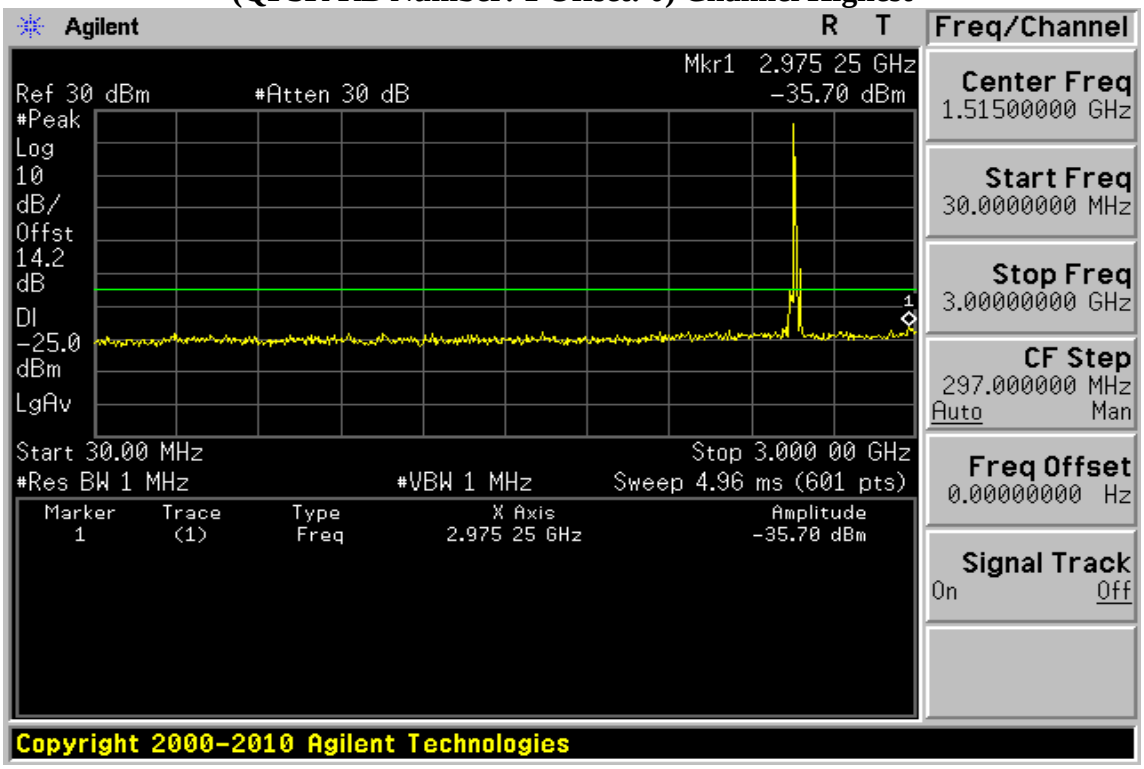
Figure 9-205: Out of Band emission at antenna terminals–10MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Mid

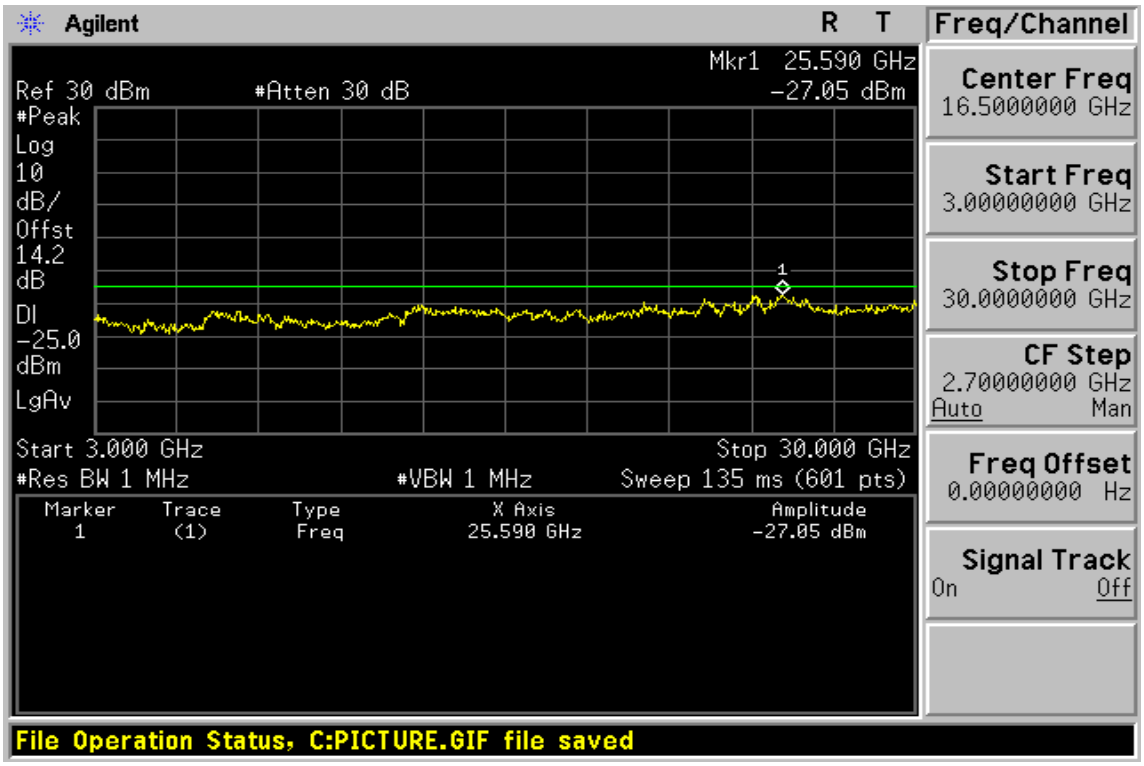




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Figure 9-206: Out of Band emission at antenna terminals–10MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Highest





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

(QPSK RB Number: 1 Offset: 0)

Fundamental Frequency :2505.5 MHz Engineer :Marcus
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	---
5011.00	H	---	-13.00	---
7516.50	H	---	-13.00	---
10022.00	H	---	-13.00	---
12527.50	H	---	-13.00	---
15033.00	H	---	-13.00	---
17538.50	H	---	-13.00	---
20044.00	H	---	-13.00	---
22549.50	H	---	-13.00	---
25055.00	H	---	-13.00	---
25455.00	S	-27.33	-13.00	14.33

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

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Fundamental Frequency :2535 MHz Engineer :Marcus
Operation Mode :TX Mid

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	H	---	-13.00	---
7605.00	H	---	-13.00	---
10140.00	H	---	-13.00	---
12675.00	H	---	-13.00	---
15210.00	H	---	-13.00	---
17745.00	H	---	-13.00	---
20280.00	H	---	-13.00	---
22815.00	H	---	-13.00	---
25350.00	H	---	-13.00	---
25590.00	S	-27.25	-13.00	14.25

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

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Fundamental Frequency :2565MHz Engineer :Marcus
Operation Mode :TX High

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	H	---	-13.00	---
7695.00	H	---	-13.00	---
10260.00	H	---	-13.00	---
12825.00	H	---	-13.00	---
15390.00	H	---	-13.00	---
17955.00	H	---	-13.00	---
20520.00	H	---	-13.00	---
23085.00	H	---	-13.00	---
25590.00	S	-27.05	-13.00	14.05
25650.00	H	---	-13.00	---

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.
“” : denotes Spurious Freque

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Figure 9-207: Band edge emission at antenna terminals –10MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Lowest

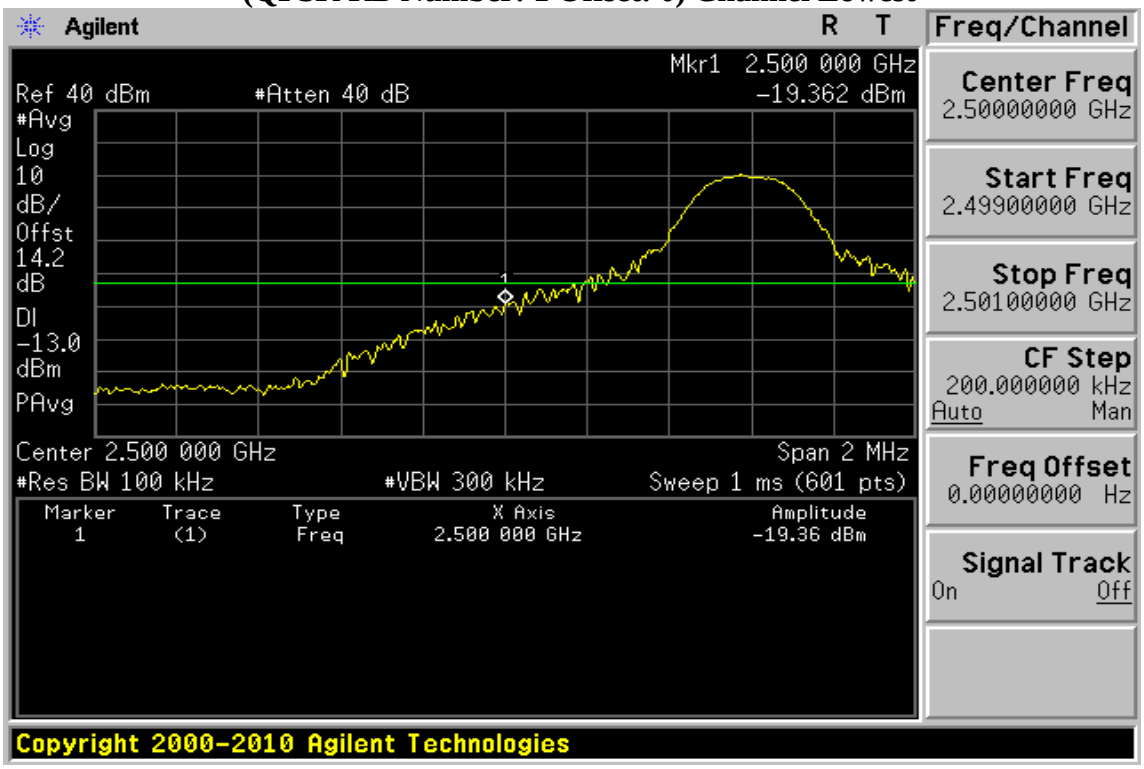
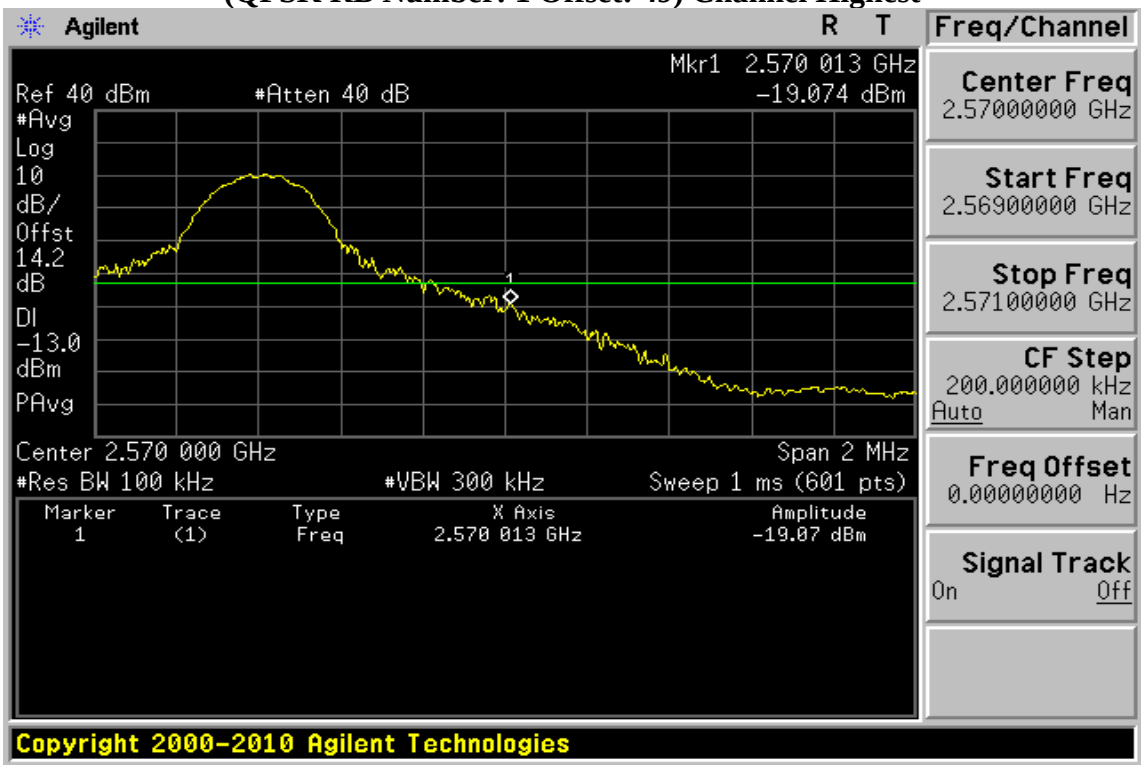


Figure 9-208: Band edge emission at antenna terminals –10MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 49) Channel Highest



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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 :Marcus

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

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Figure 9-209: Band edge emission at antenna terminals –10MHz BW LTE-Band 7 (QPSK RB Number: 50 Offset: 0) Channel Lowest

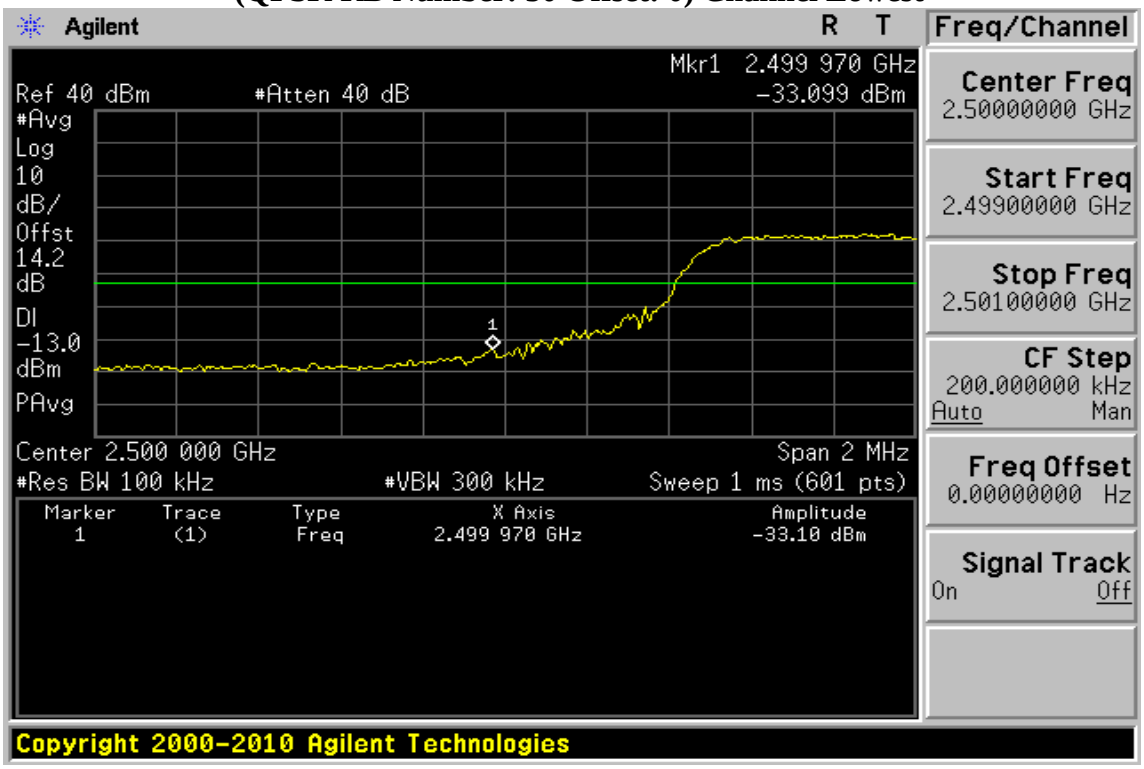
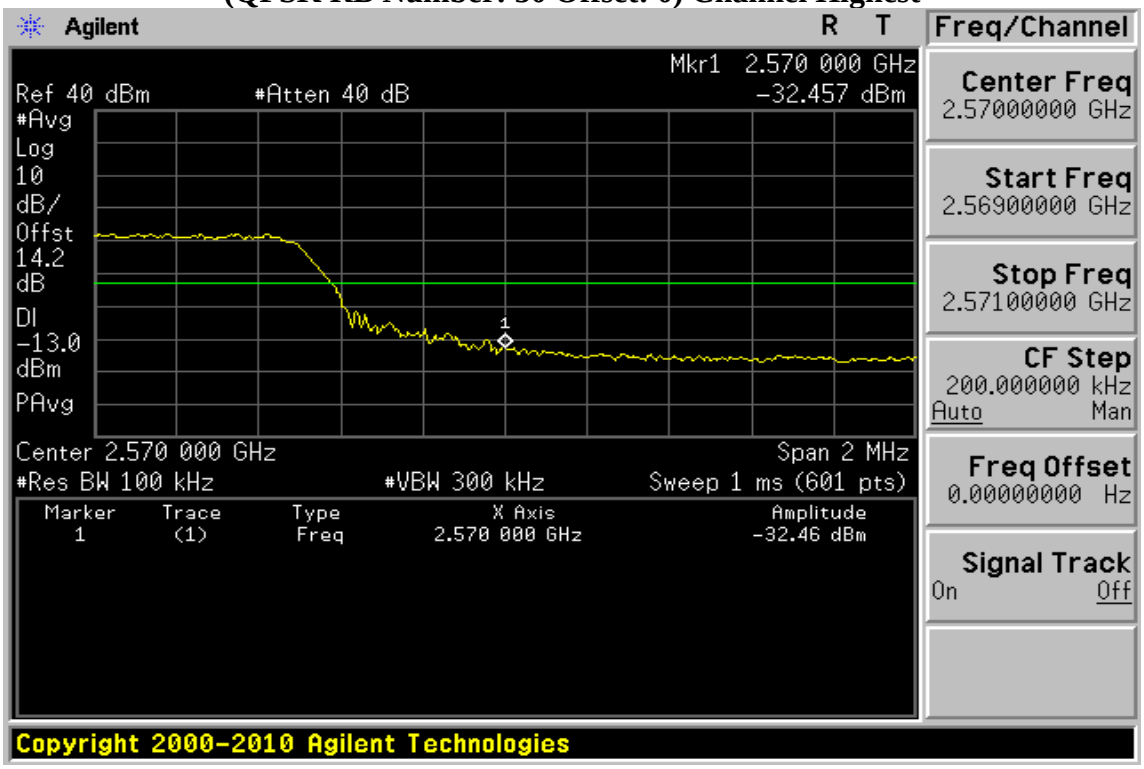


Figure 9-210: Band edge emission at antenna terminals –10MHz BW LTE-Band 7 (QPSK RB Number: 50 Offset: 0) Channel Highest



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

(QPSK RB Number: 50 Offset: 0)

Test Mode 10MHz BW LTE-Band 7 Engineer :Marcus

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
2499.970	-33.10	-13.00	20.10
2570.000	-32.46	-13.00	19.46

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Figure 9-211: Emission MASK at antenna terminals –10MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Lowest

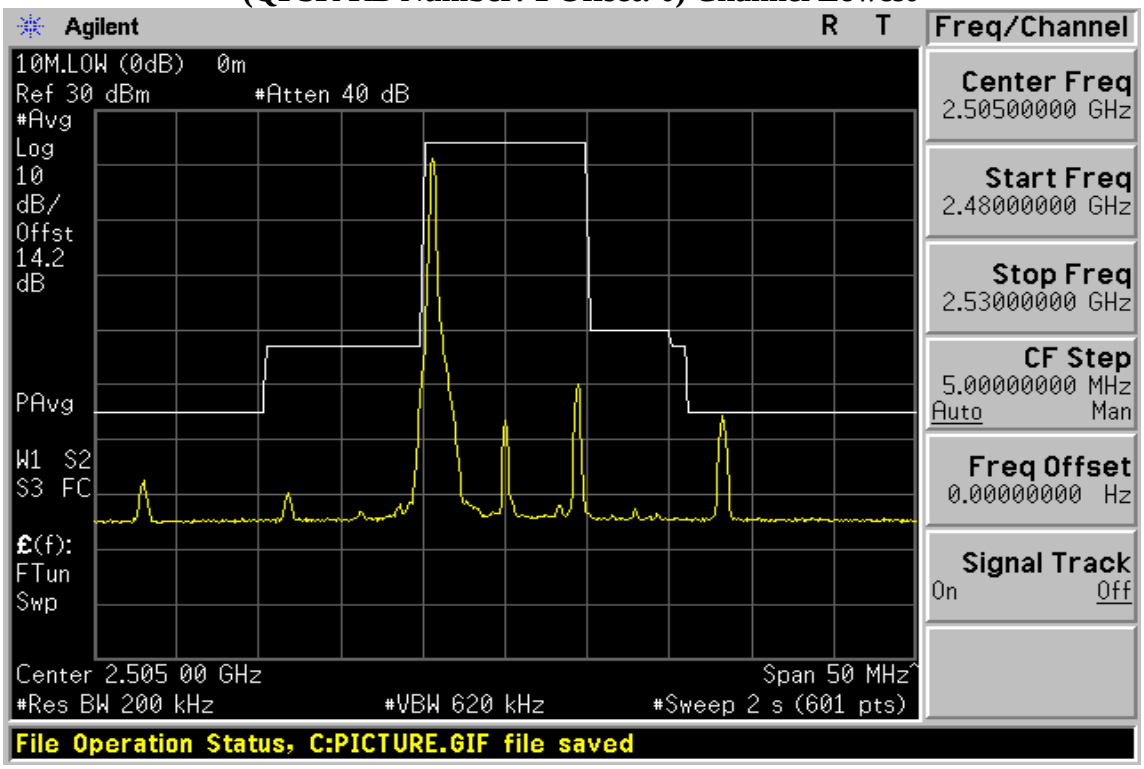
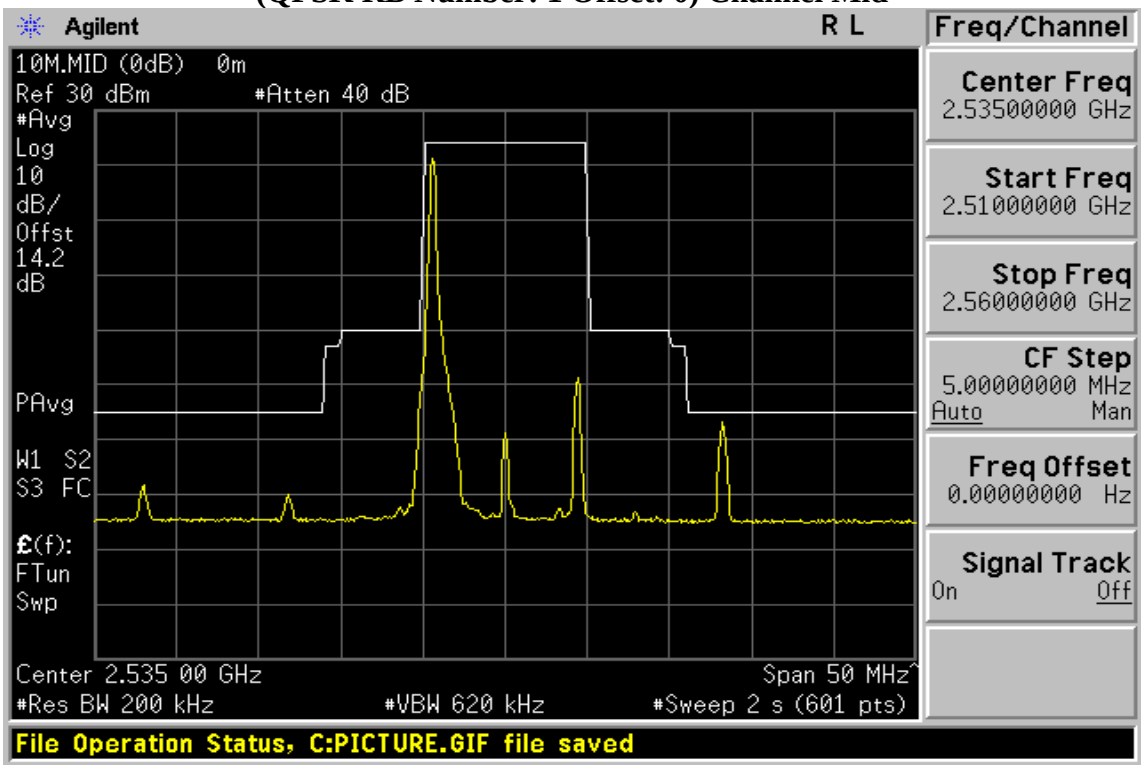


Figure 9-212: Emission MASK at antenna terminals –10MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Mid



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Figure 9-213: Emission MASK at antenna terminals –10MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Highest

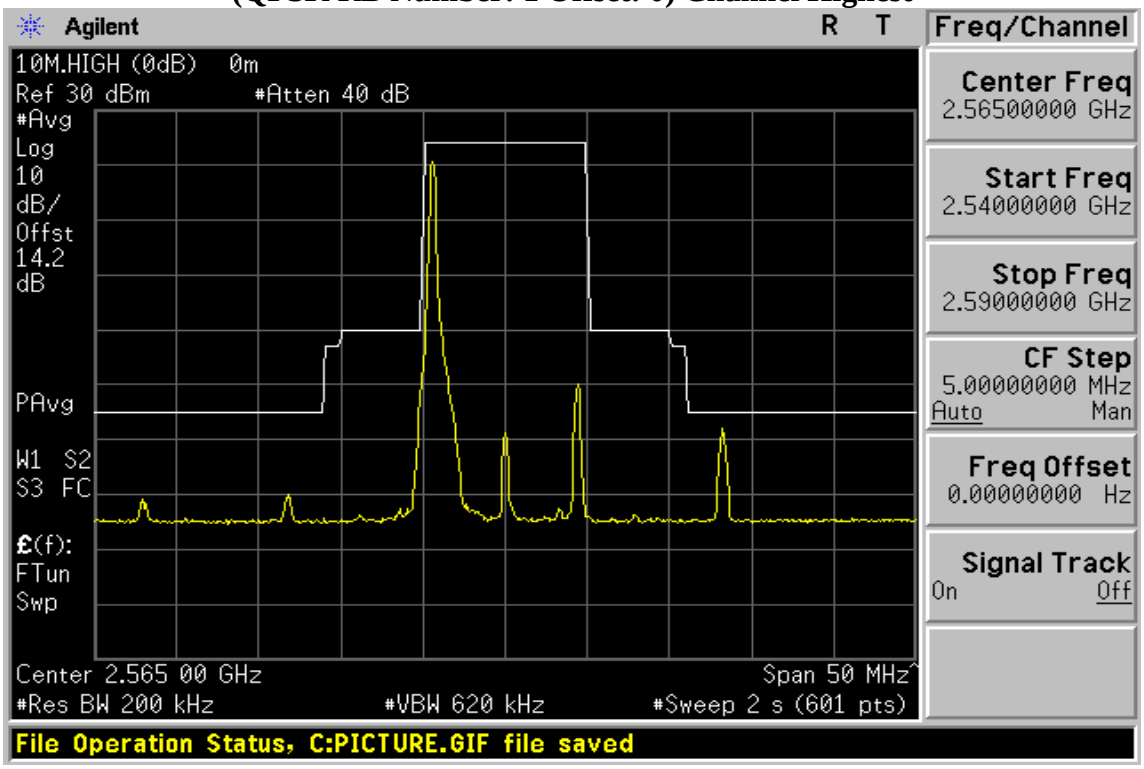
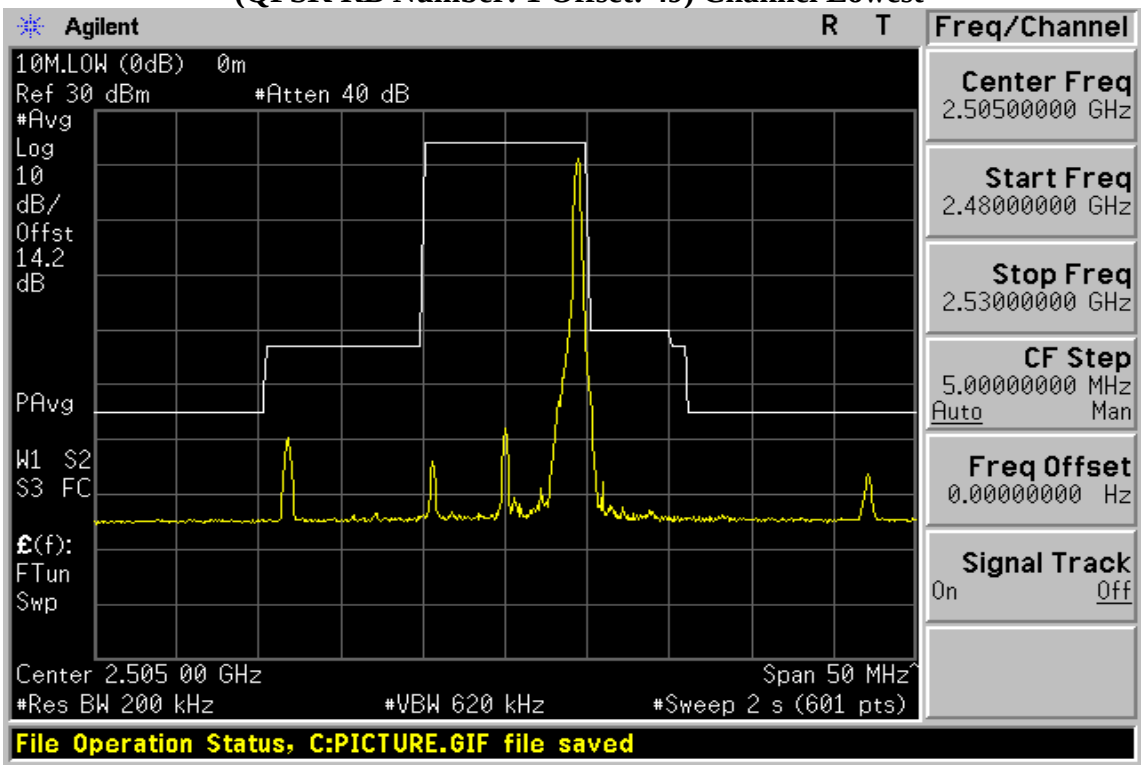


Figure 9-214: Emission MASK at antenna terminals –10MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 49) Channel Lowest



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Figure 9-215: Emission MASK at antenna terminals –10MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 49) Channel Mid

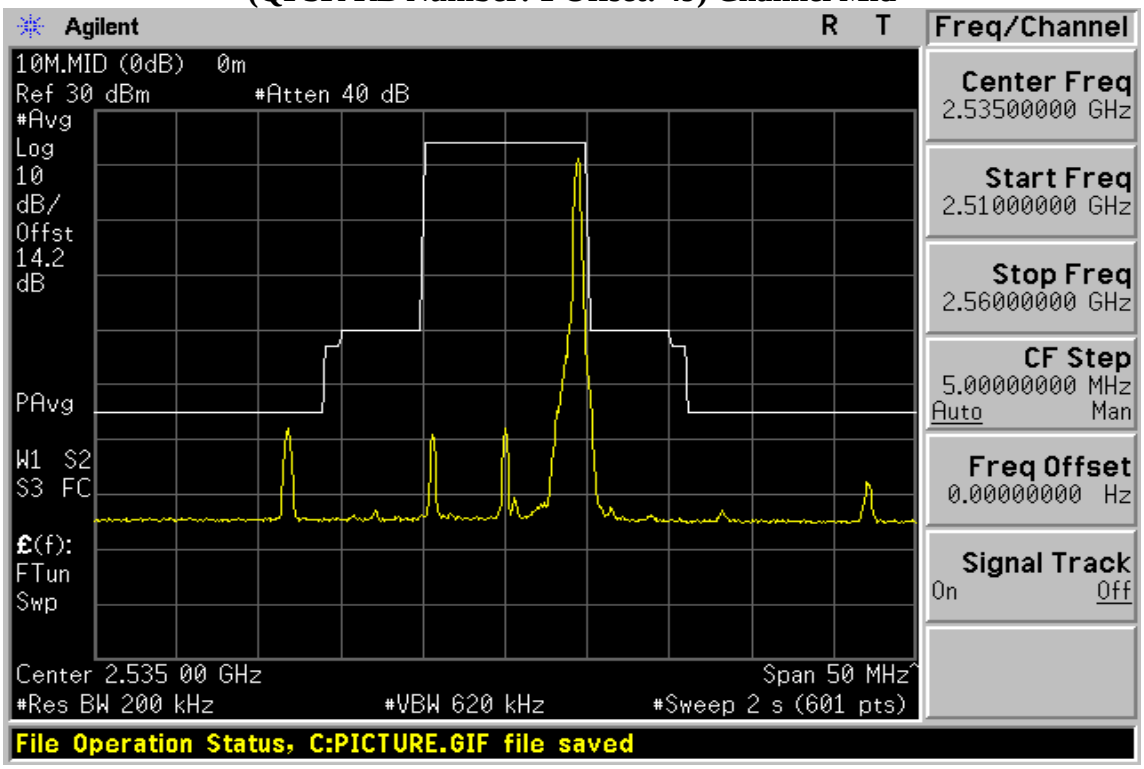
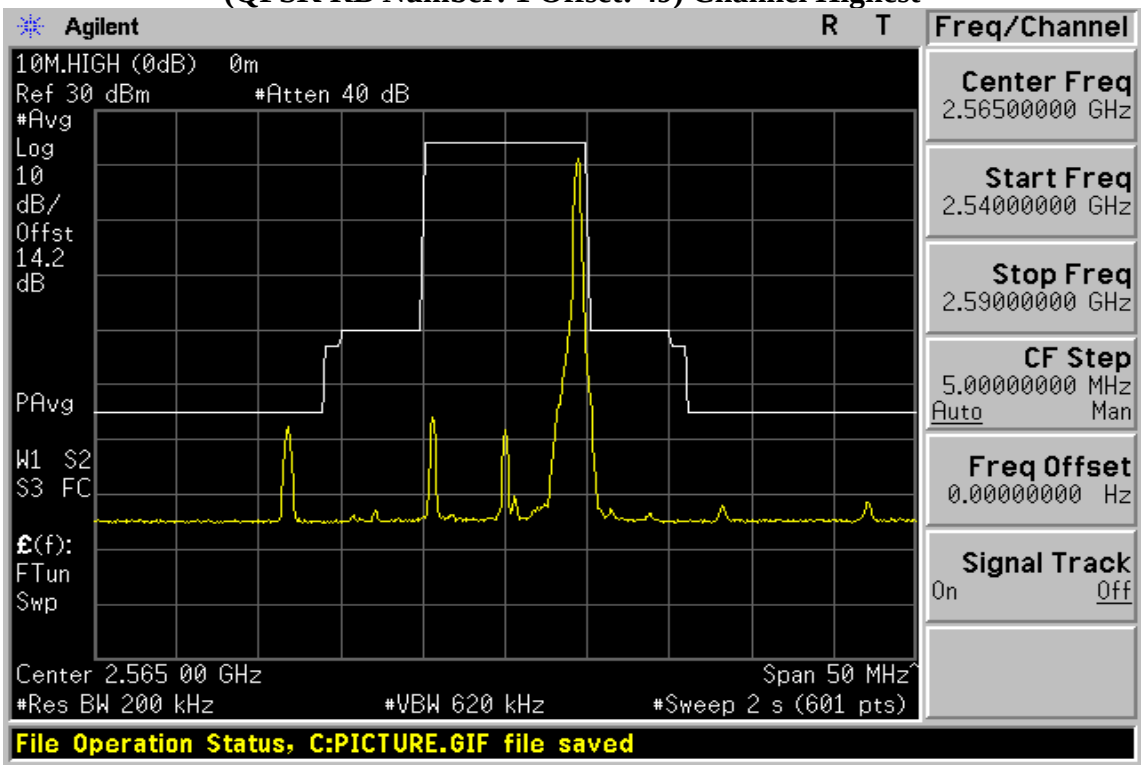


Figure 9-216: Emission MASK at antenna terminals –10MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 49) Channel Highest



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Figure 9-217: Emission MASK at antenna terminals –10MHz BW LTE-Band 7 (QPSK RB Number: 50 Offset: 0) Channel Lowest

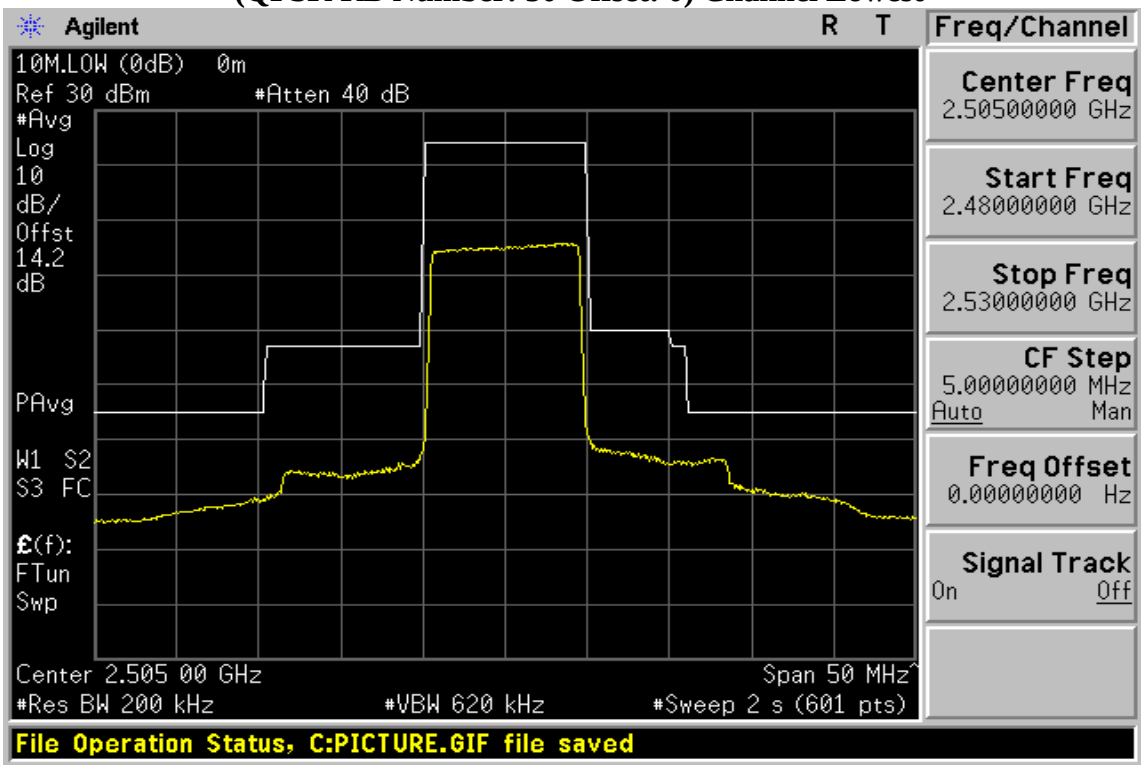
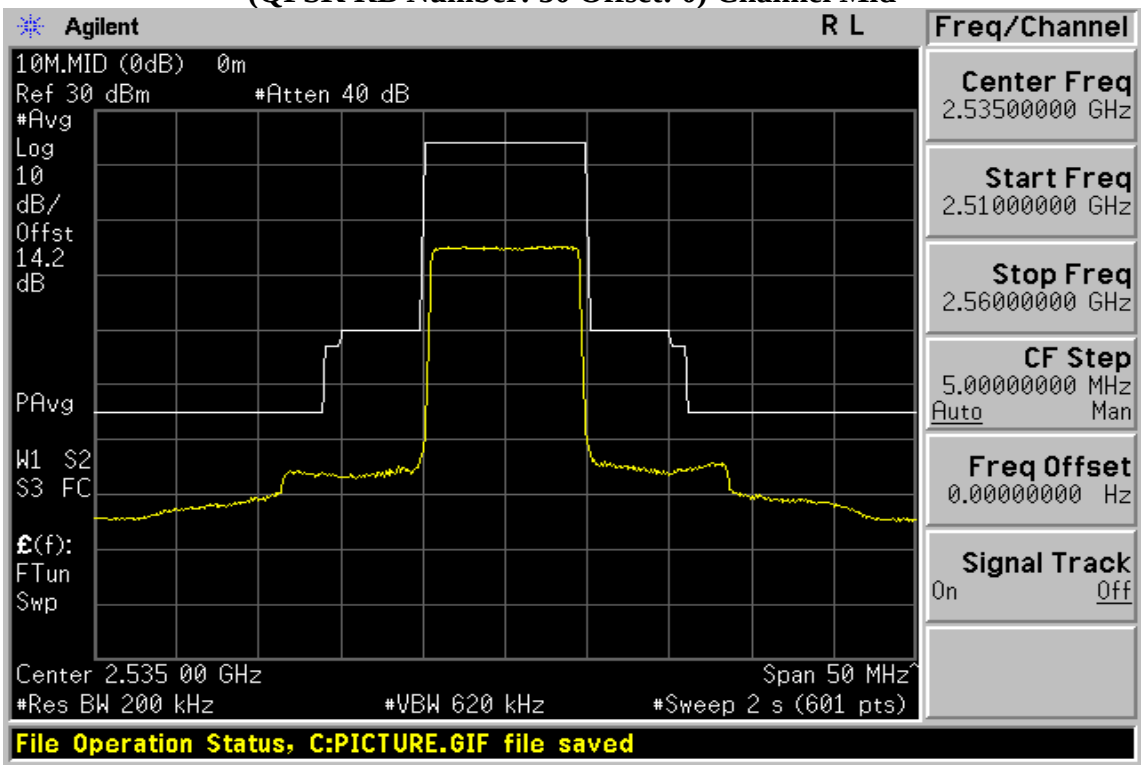
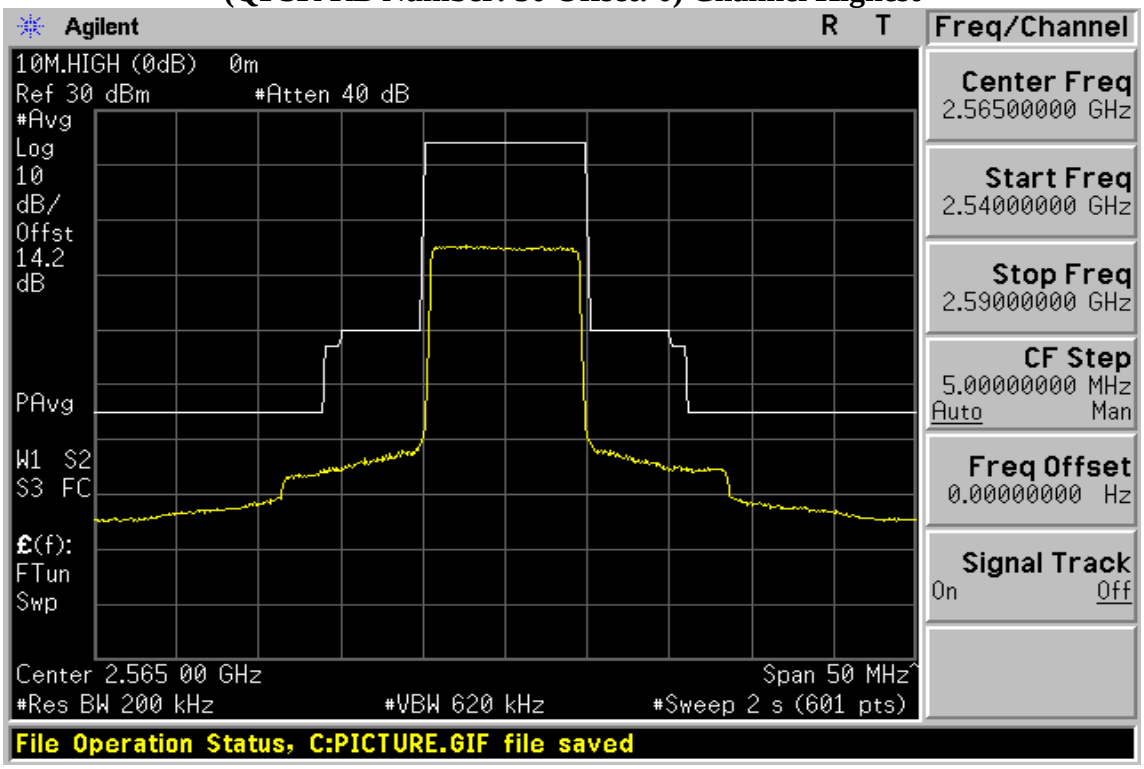


Figure 9-218: Emission MASK at antenna terminals –10MHz BW LTE-Band 7 (QPSK RB Number: 50 Offset: 0) Channel Mid



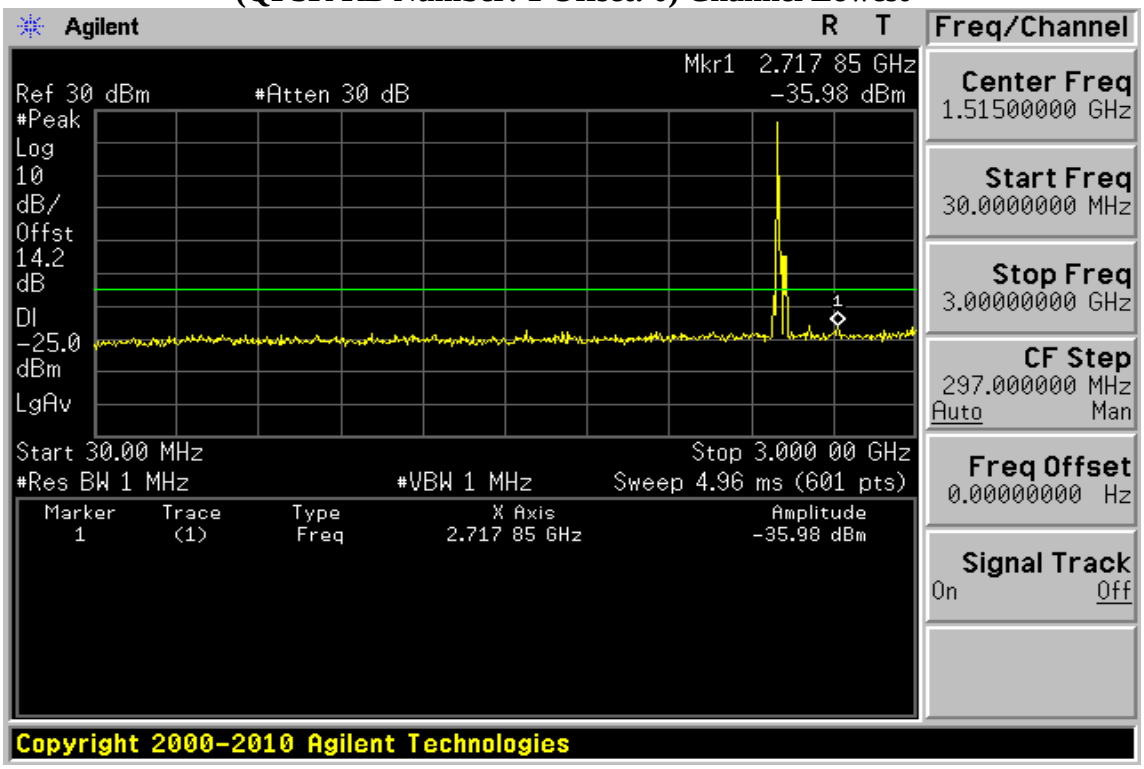
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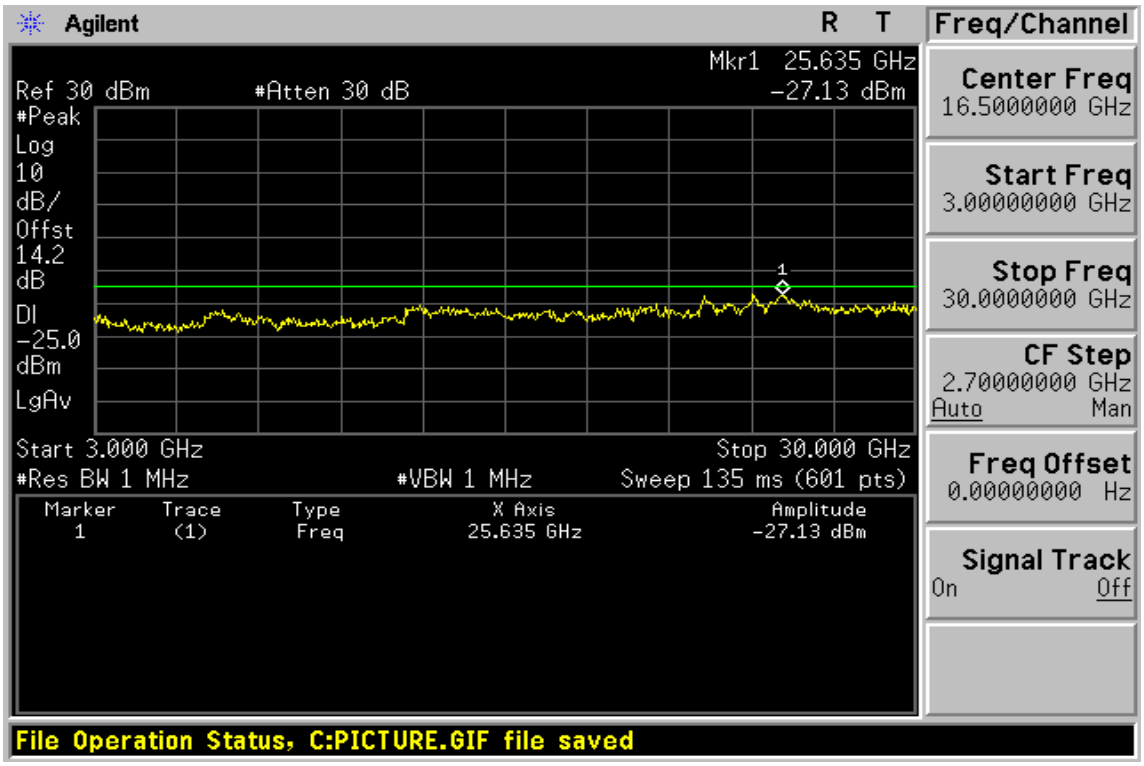
Figure 9-219: Emission MASK at antenna terminals –10MHz BW LTE-Band 7 (QPSK RB Number: 50 Offset: 0) Channel Highest



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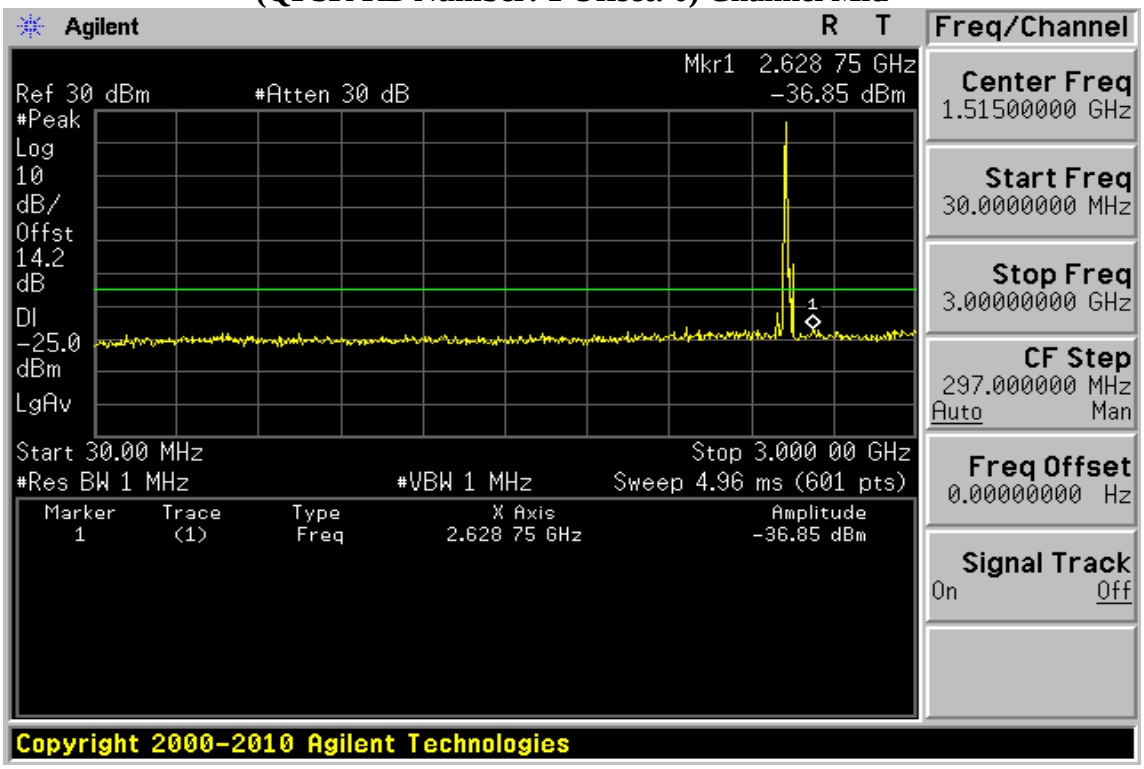
Figure 9-220: Out of Band emission at antenna terminals–15MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Lowest

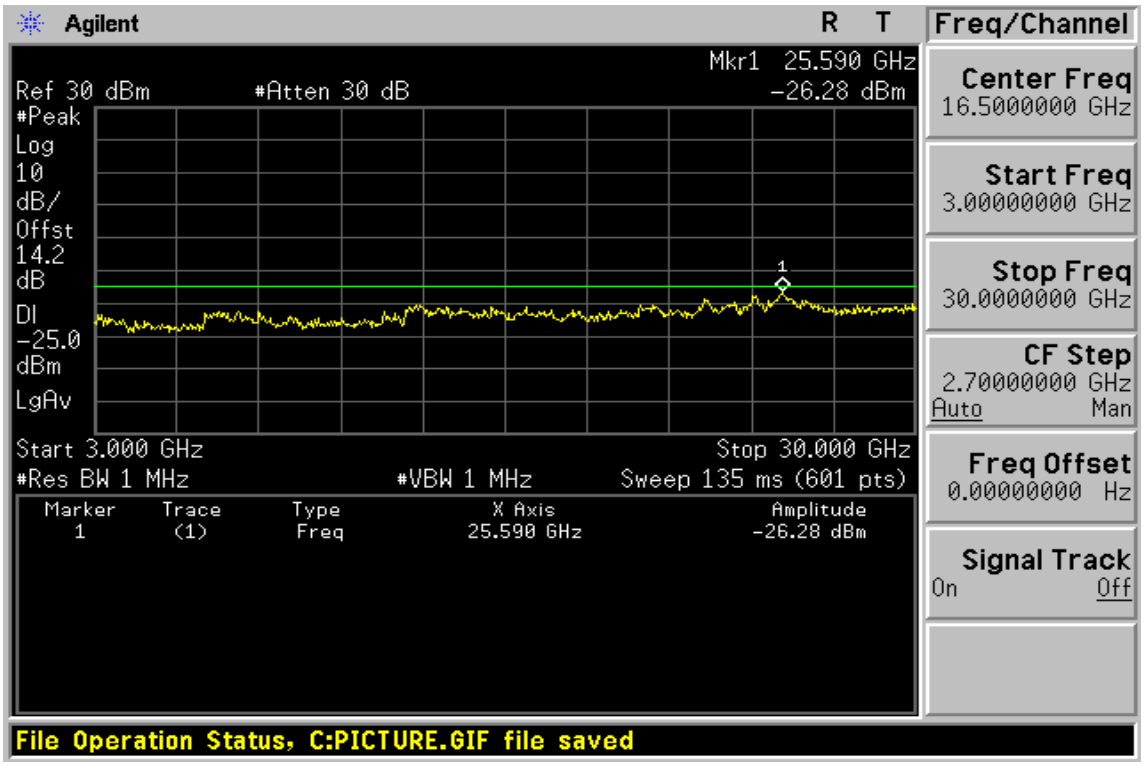




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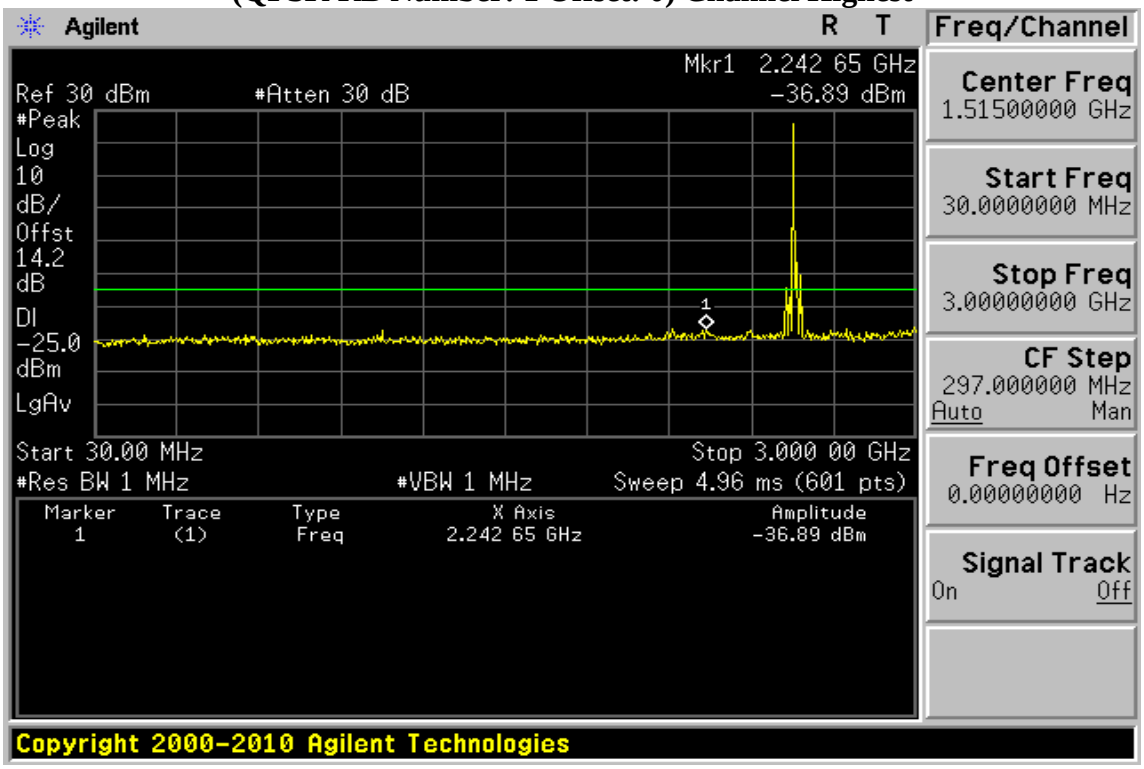
Figure 9-221: Out of Band emission at antenna terminals–15MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Mid

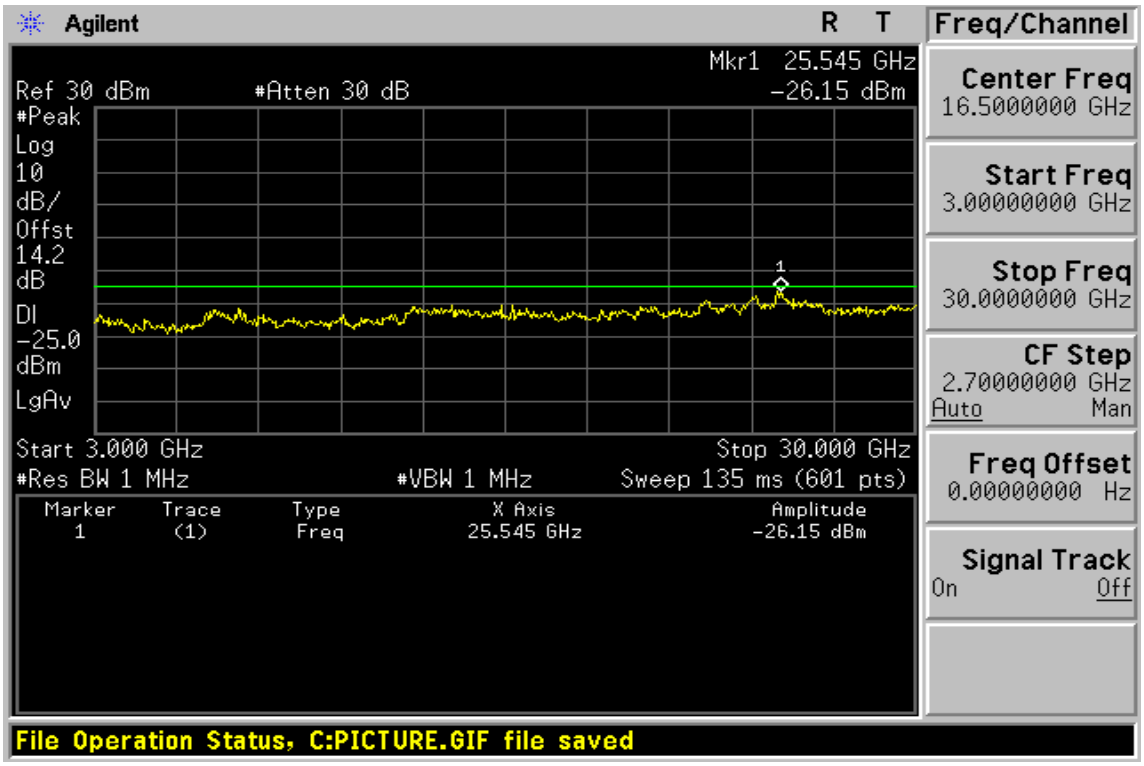




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Figure 9-222: Out of Band emission at antenna terminals–15MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Highest





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

(QPSK RB Number: 1 Offset: 0)

Fundamental Frequency :2507.5 MHz Engineer :Marcus
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	---
5015.00	H	---	-13.00	---
7522.50	H	---	-13.00	---
10030.00	H	---	-13.00	---
12537.50	H	---	-13.00	---
15045.00	H	---	-13.00	---
17552.50	H	---	-13.00	---
20060.00	H	---	-13.00	---
22567.50	H	---	-13.00	---
25075.00	H	---	-13.00	---
25635.00	S	-27.13	-13.00	14.13

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

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Fundamental Frequency :2535 MHz Engineer :Marcus
Operation Mode :TX Mid

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	H	---	-13.00	---
7605.00	H	---	-13.00	---
10140.00	H	---	-13.00	---
12675.00	H	---	-13.00	---
15210.00	H	---	-13.00	---
17745.00	H	---	-13.00	---
20280.00	H	---	-13.00	---
22815.00	H	---	-13.00	---
25350.00	H	---	-13.00	---
25590.00	S	-26.28	-13.00	13.28

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

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Fundamental Frequency :2562.5MHz Engineer :Marcus
Operation Mode :TX High

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	H	---	-13.00	---
7687.50	H	---	-13.00	---
10250.00	H	---	-13.00	---
12812.50	H	---	-13.00	---
15375.00	H	---	-13.00	---
17937.50	H	---	-13.00	---
20500.00	H	---	-13.00	---
23062.50	H	---	-13.00	---
25545.00	S	-26.15	-13.00	13.15
25625.00	H	---	-13.00	---

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

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Figure 9-223: Band edge emission at antenna terminals –15MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Lowest

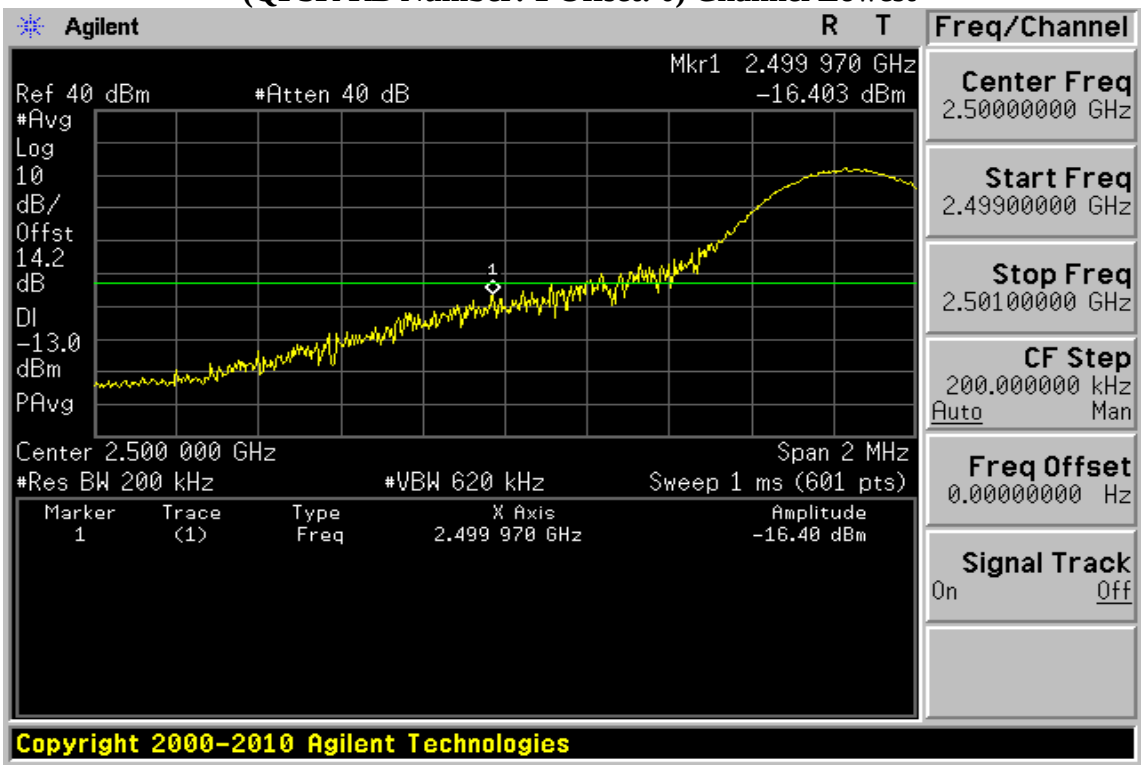
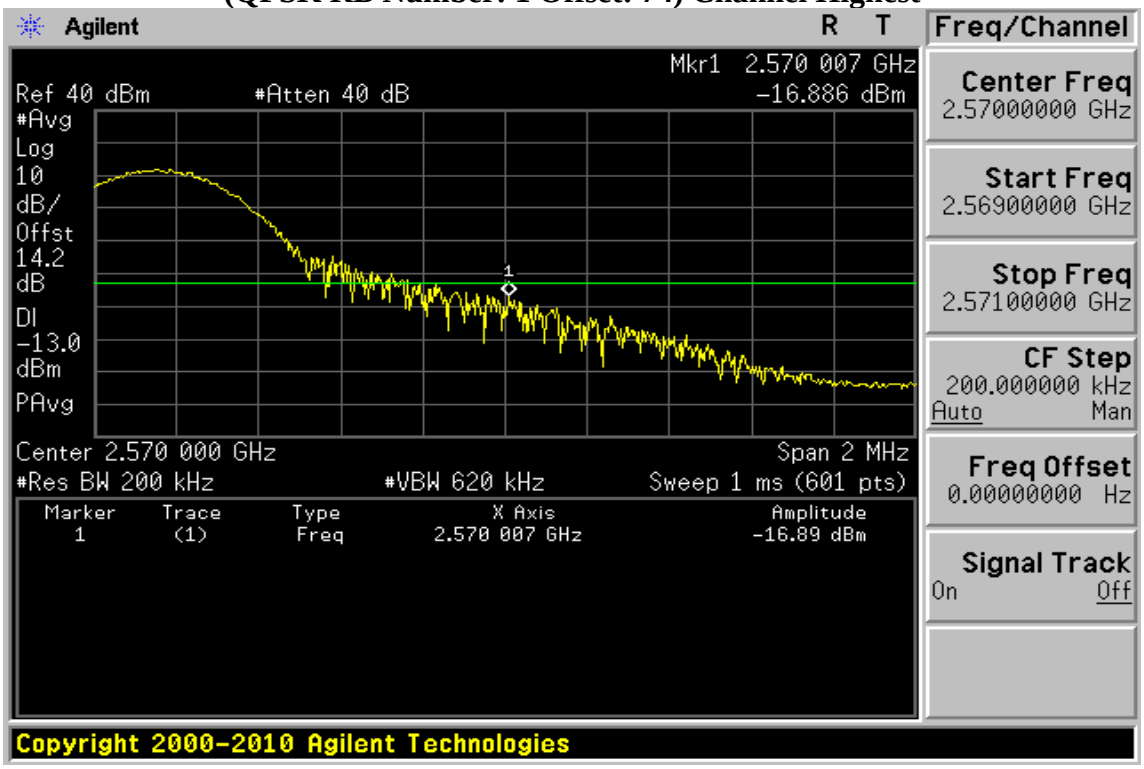


Figure 9-224 Band edge emission at antenna terminals –15MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 74) Channel Highest



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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

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
2499.970	-16.40	-13.00	3.40
2570.007	-16.89	-13.00	3.89

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Figure 9-225: Band edge emission at antenna terminals –15MHz BW LTE-Band 7 (QPSK RB Number: 75 Offset: 0) Channel Lowest

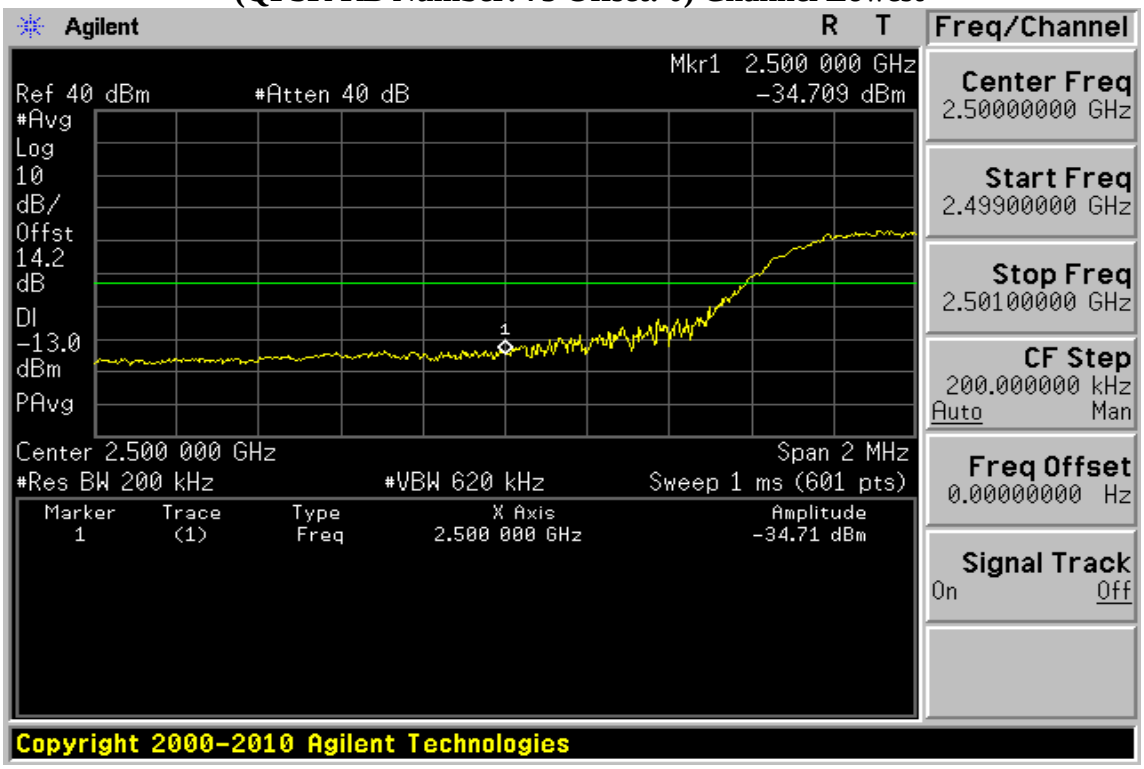
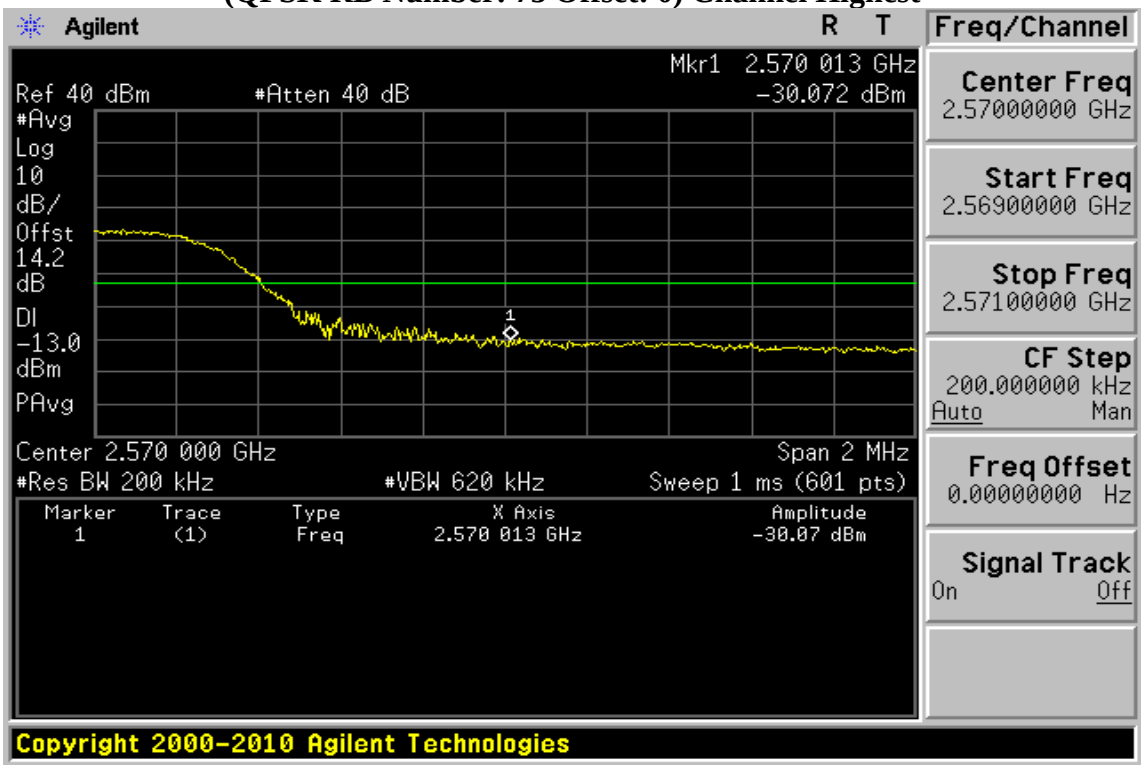


Figure 9-226: Band edge emission at antenna terminals –15MHz BW LTE-Band 7 (QPSK RB Number: 75 Offset: 0) Channel Highest



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

(QPSK RB Number: 75 Offset: 0)

Test Mode 15MHz BW LTE-Band 7 Engineer :Marcus

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
2500.000	-34.71	-13.00	21.71
2570.013	-30.07	-13.00	17.07

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Figure 9-227: Emission MASK at antenna terminals –15MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Lowest

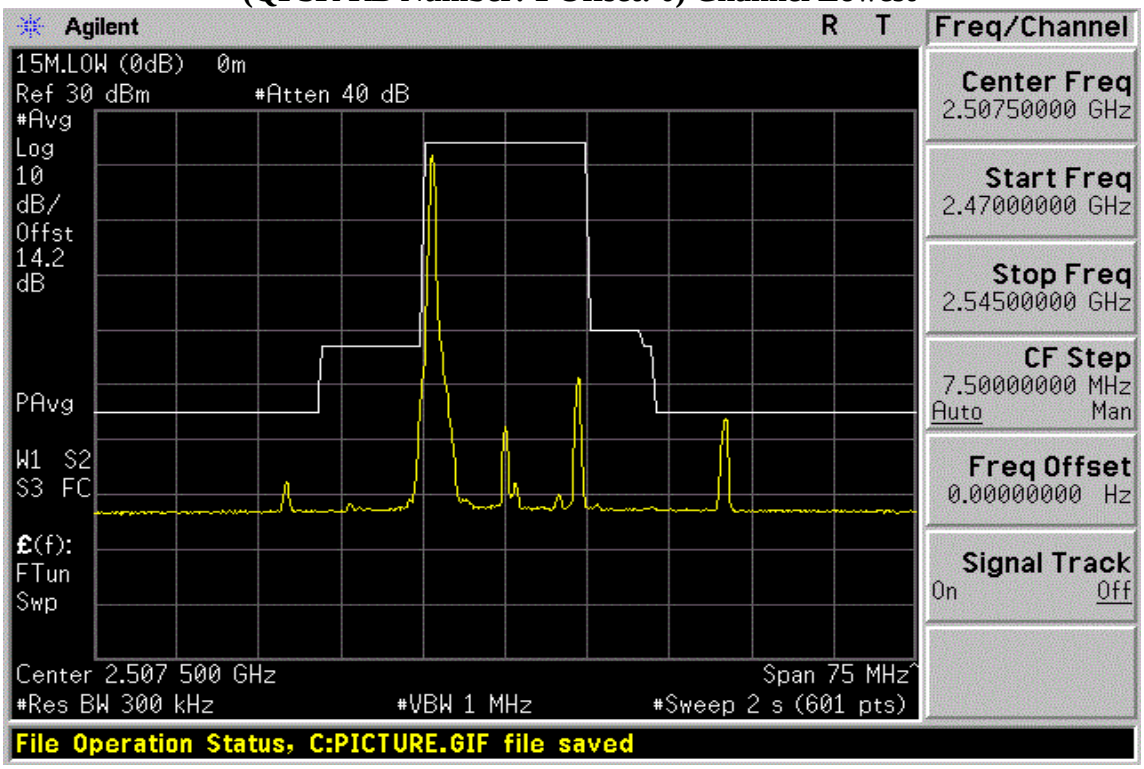
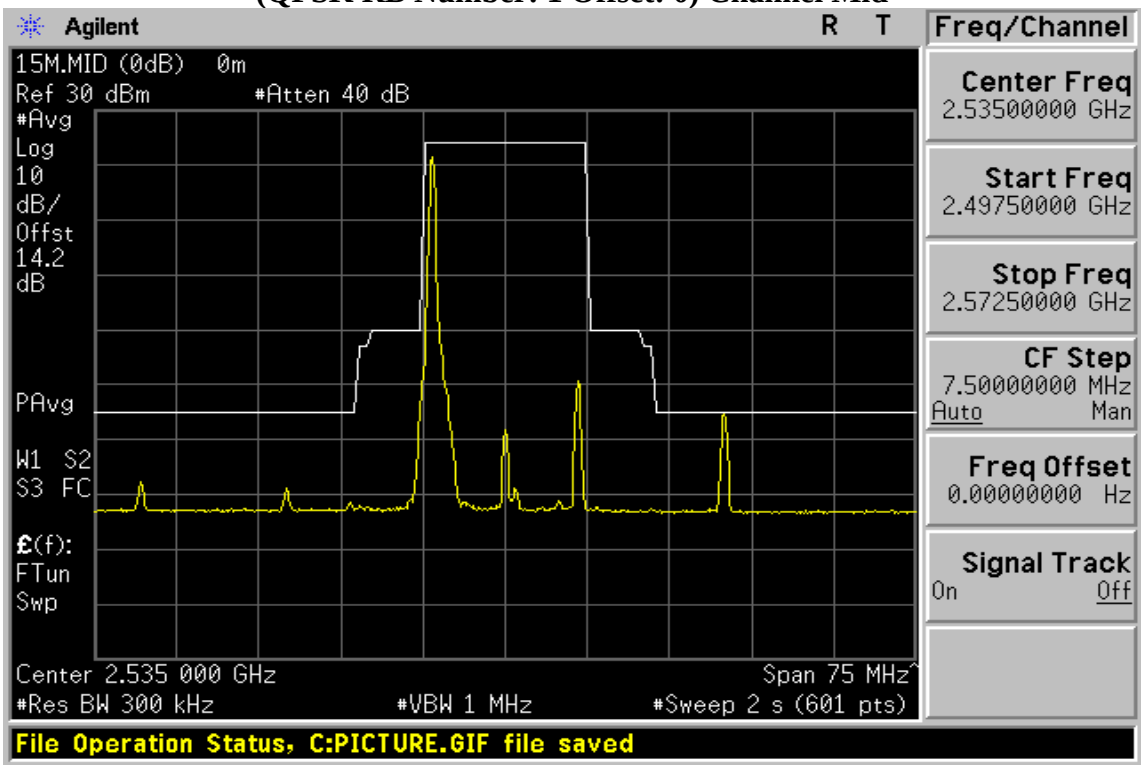


Figure 9-228: Emission MASK at antenna terminals –15MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Mid



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Figure 9-229: Emission MASK at antenna terminals –15MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Highest

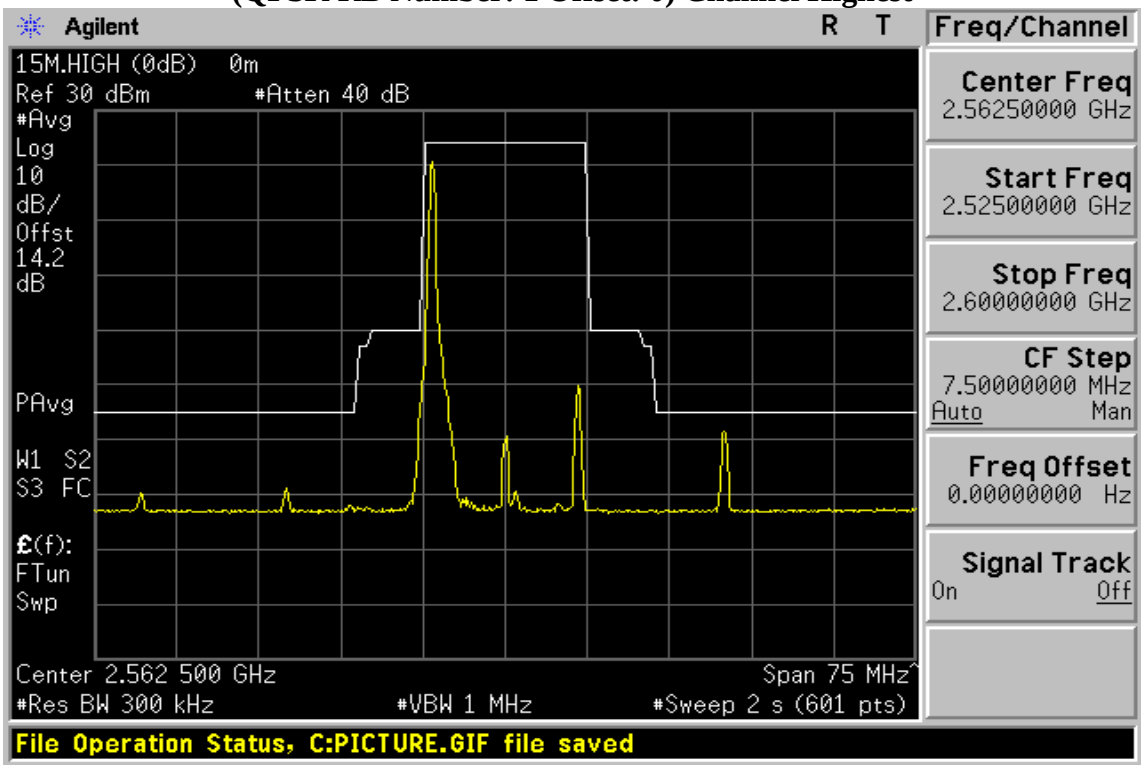
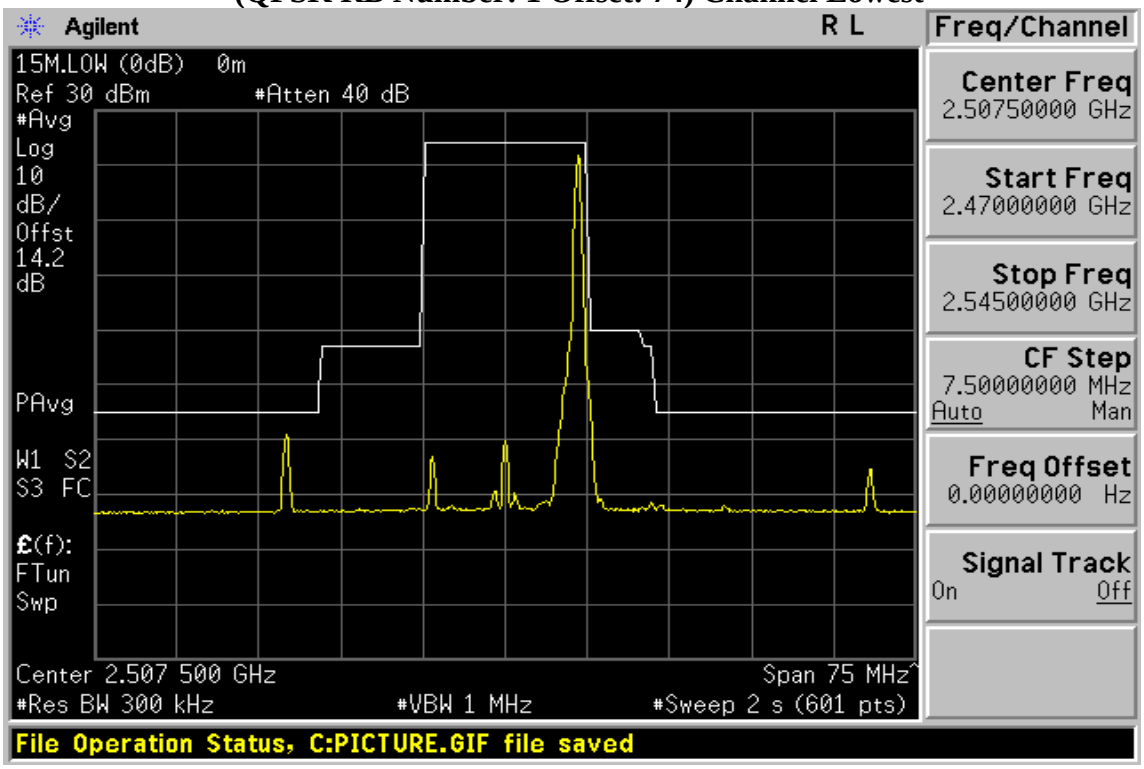


Figure 9-230: Emission MASK at antenna terminals –15MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 74) Channel Lowest



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Figure 9-231: Emission MASK at antenna terminals –15MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 74) Channel Mid

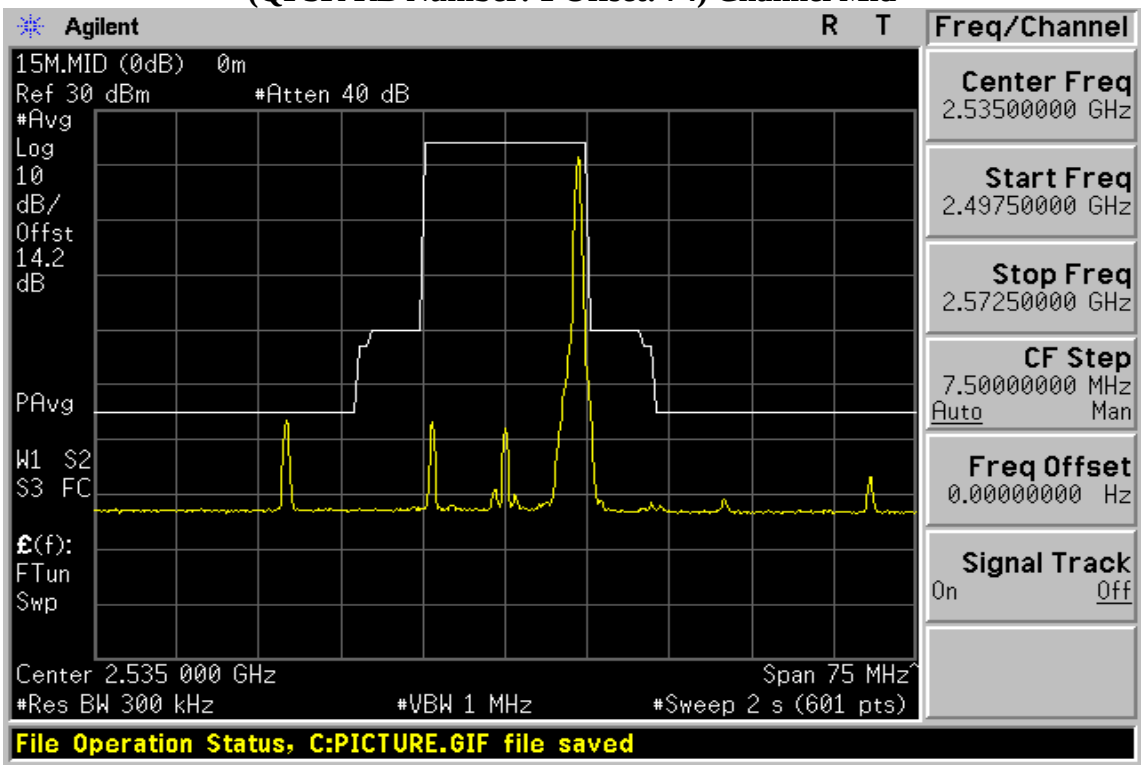
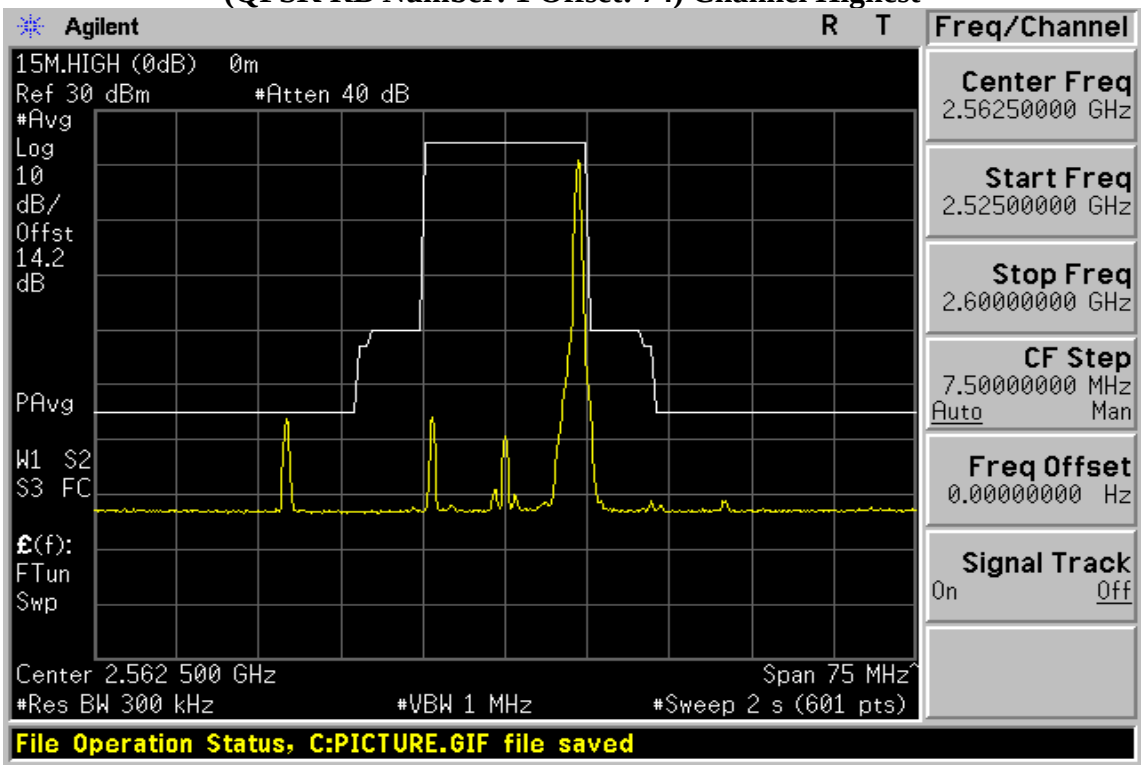


Figure 9-232: Emission MASK at antenna terminals –15MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 74) Channel Highest



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Figure 9-233: Emission MASK at antenna terminals –15MHz BW LTE-Band 7 (QPSK RB Number: 75 Offset: 0) Channel Lowest

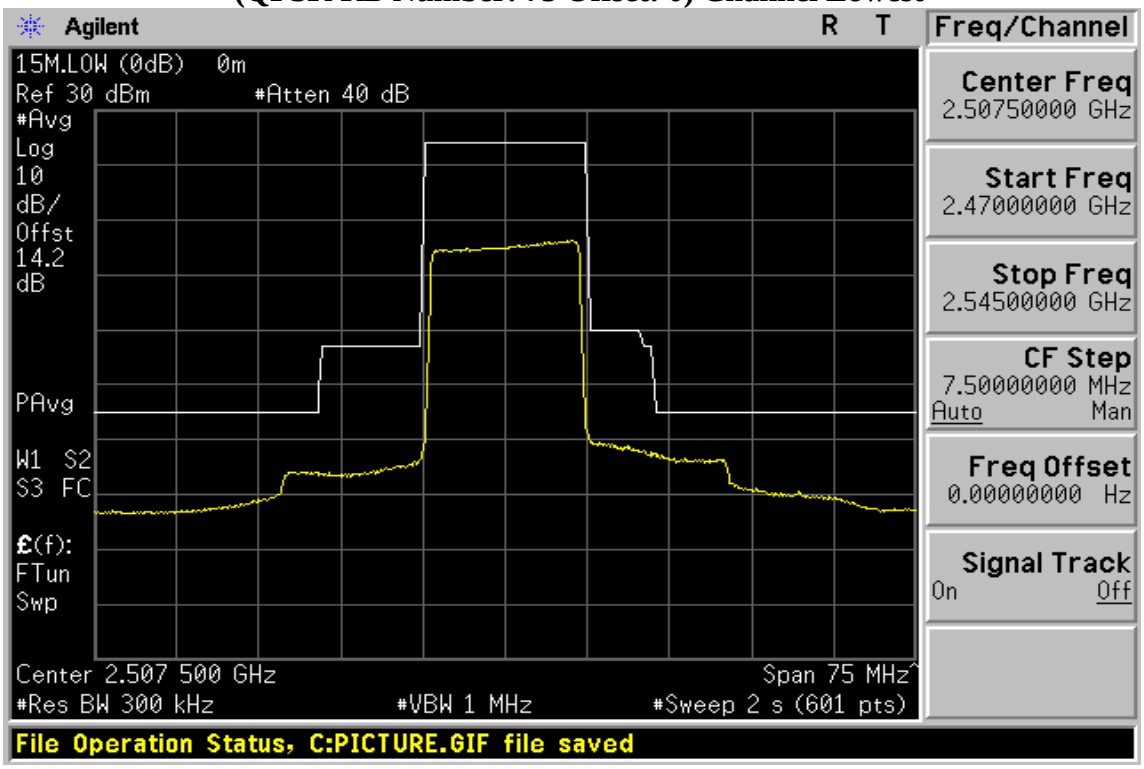
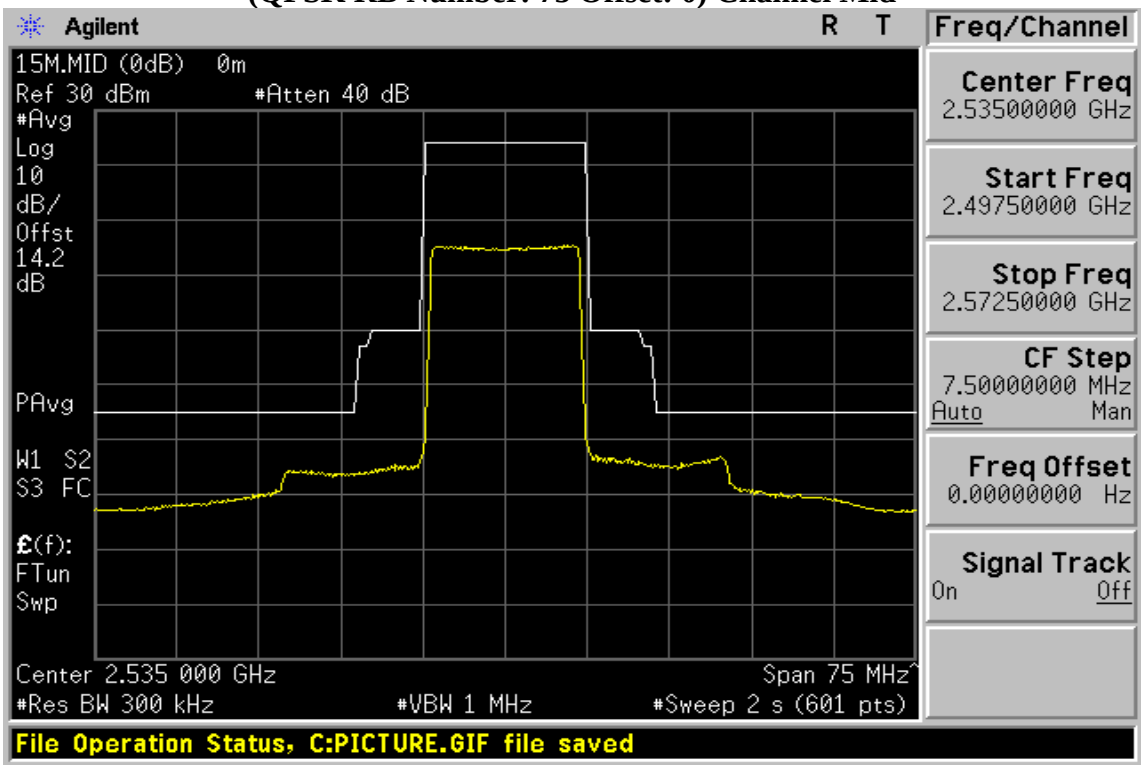
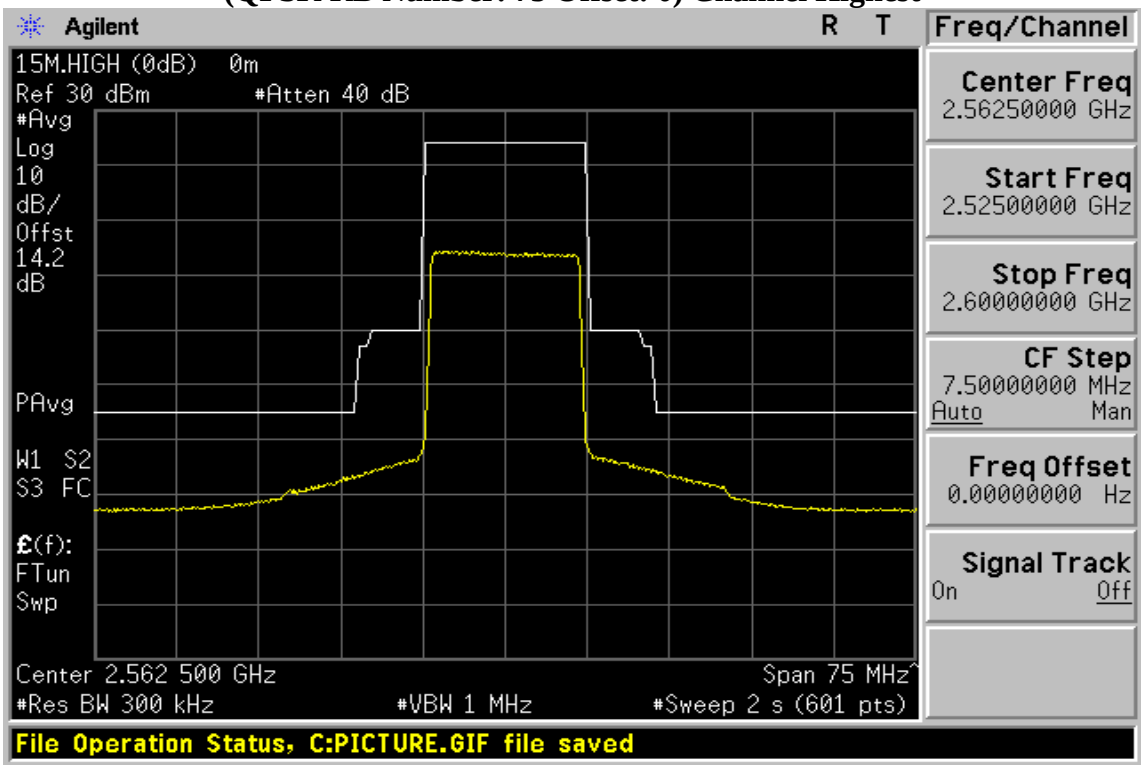


Figure 9-234: Emission MASK at antenna terminals –15MHz BW LTE-Band 7 (QPSK RB Number: 75 Offset: 0) Channel Mid



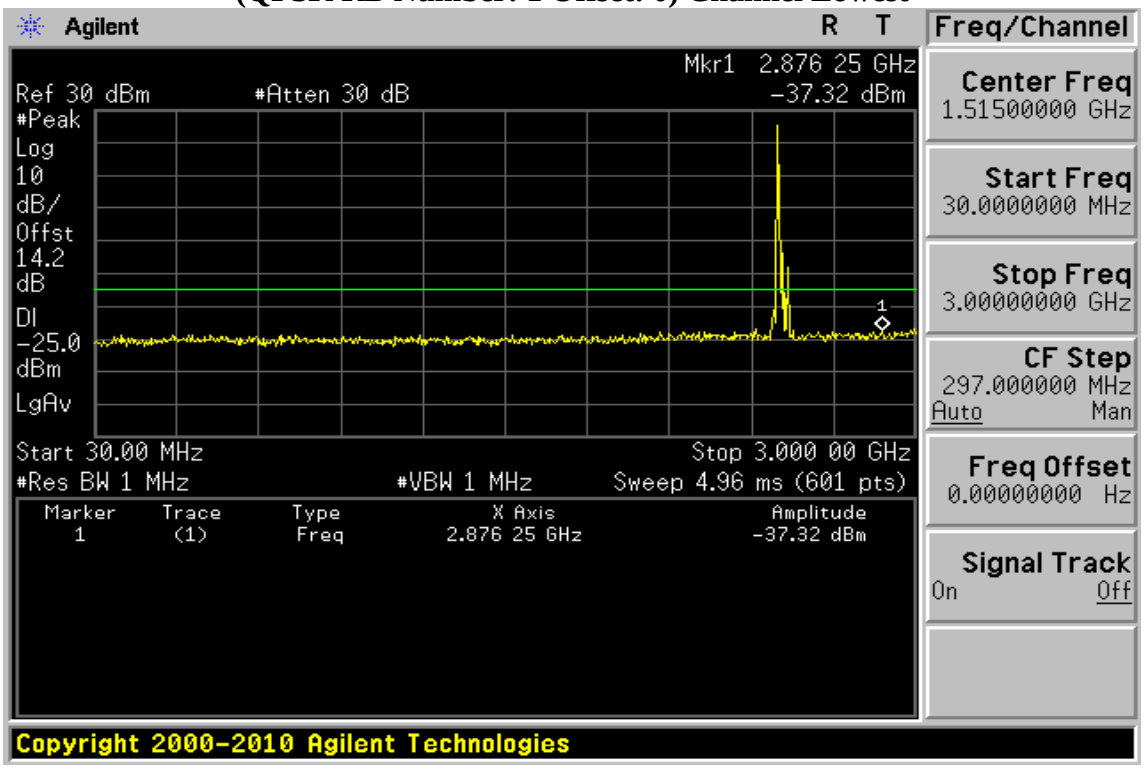
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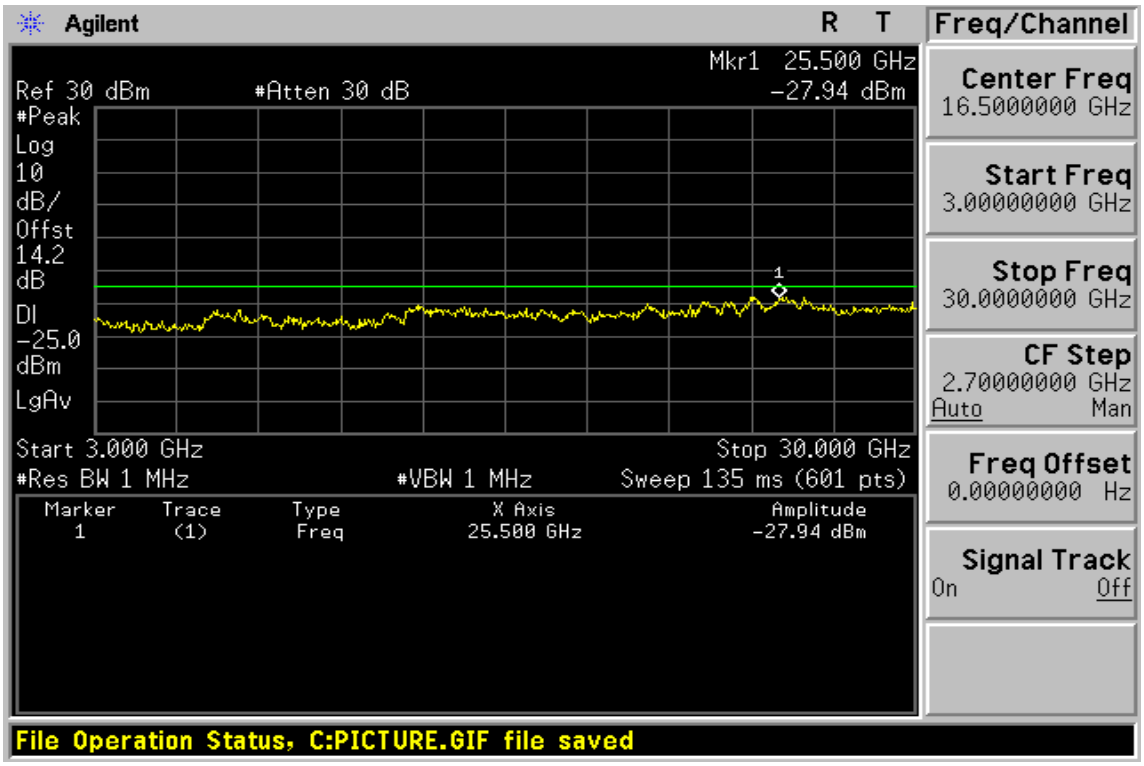
Figure 9-235: Emission MASK at antenna terminals –15MHz BW LTE-Band 7 (QPSK RB Number: 75 Offset: 0) Channel Highest



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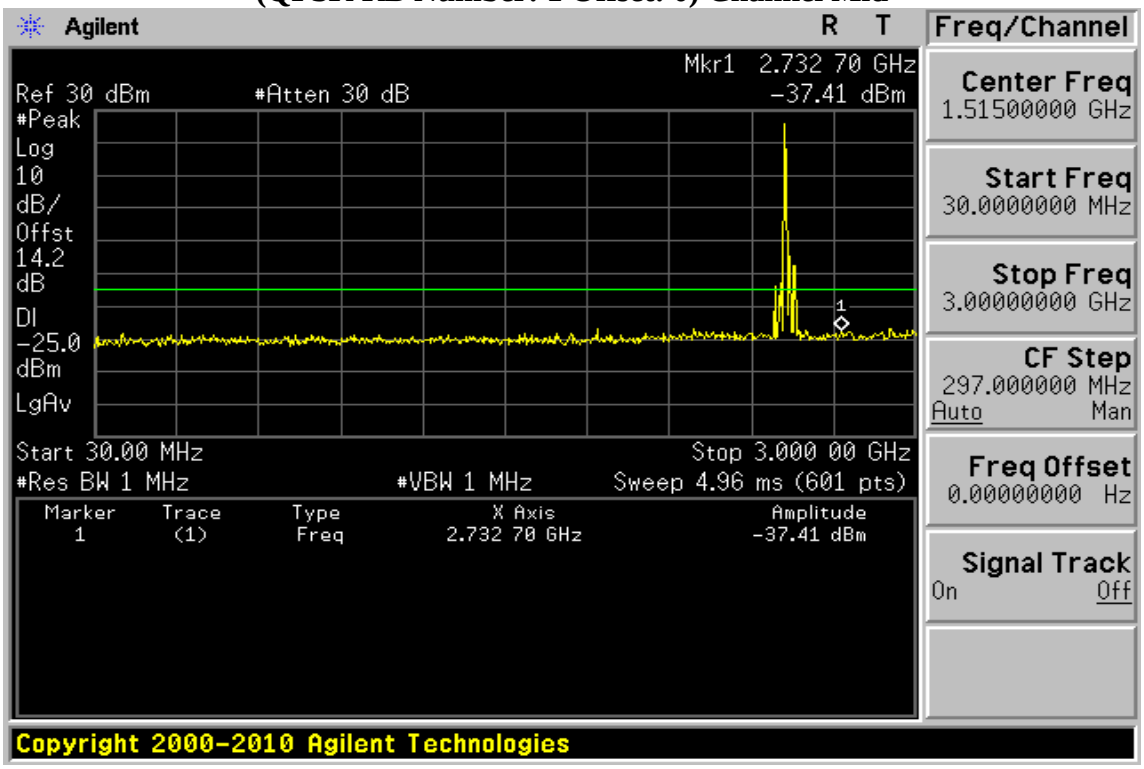
Figure 9-236: Out of Band emission at antenna terminals–20MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Lowest

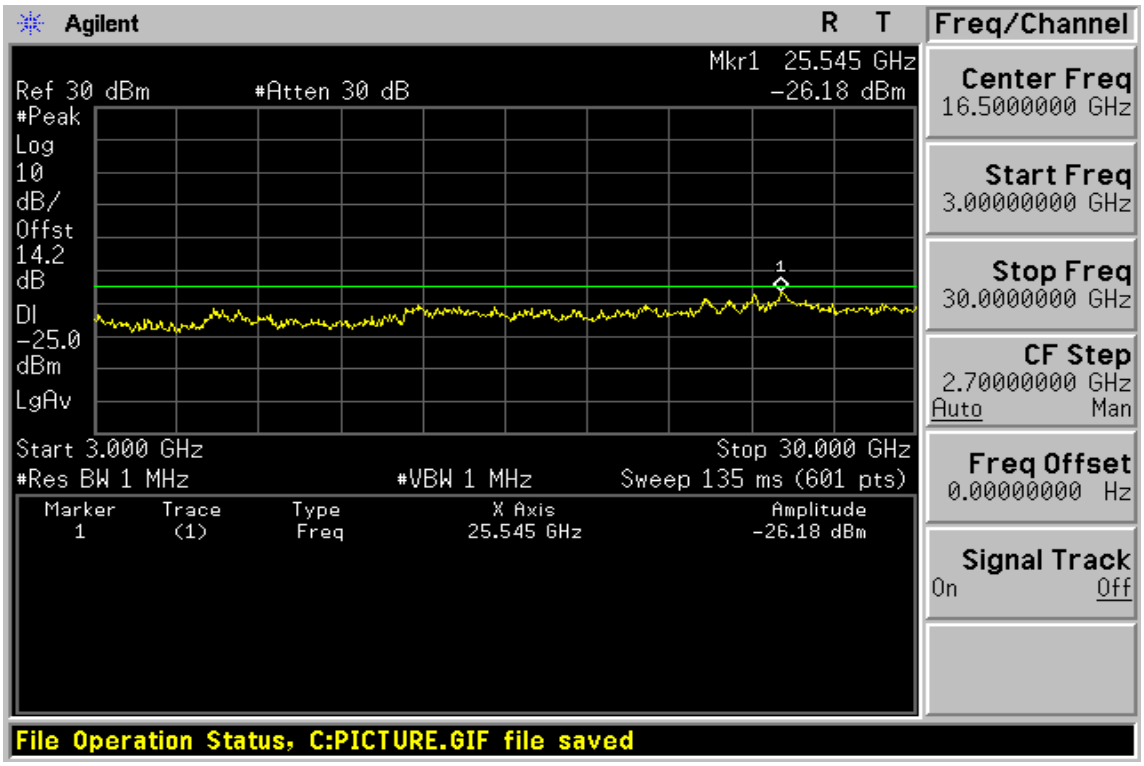




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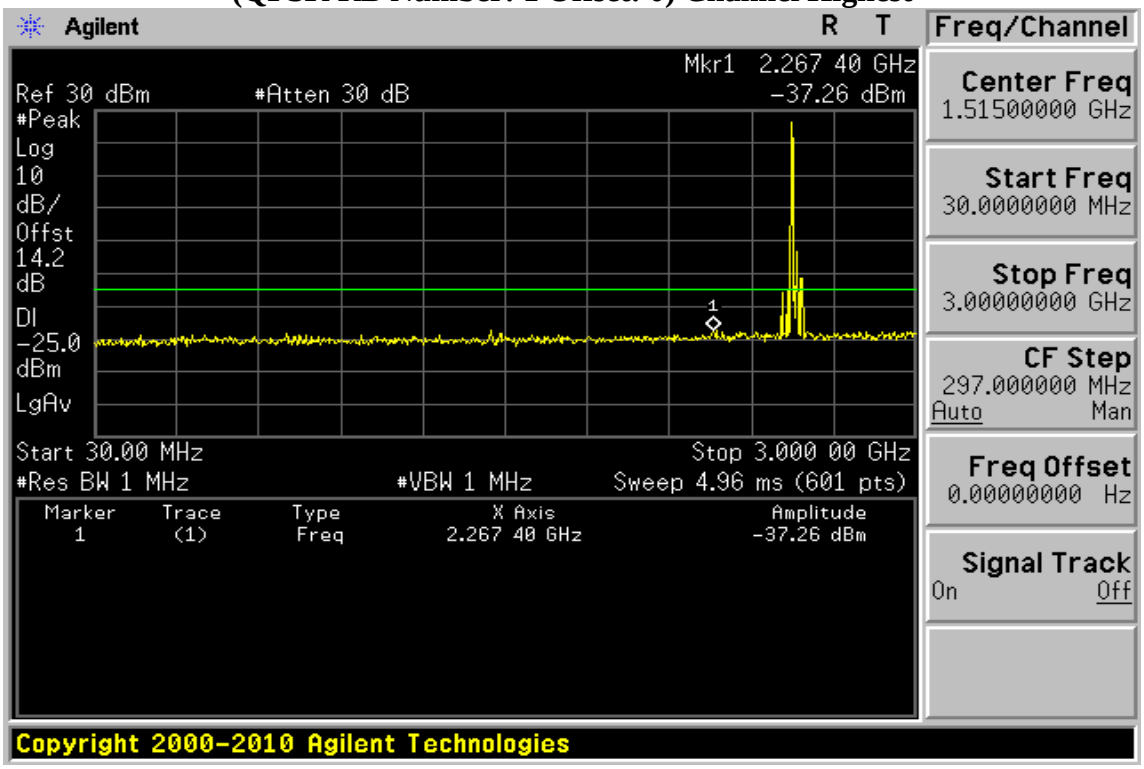
Figure 9-237: Out of Band emission at antenna terminals–20MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Mid

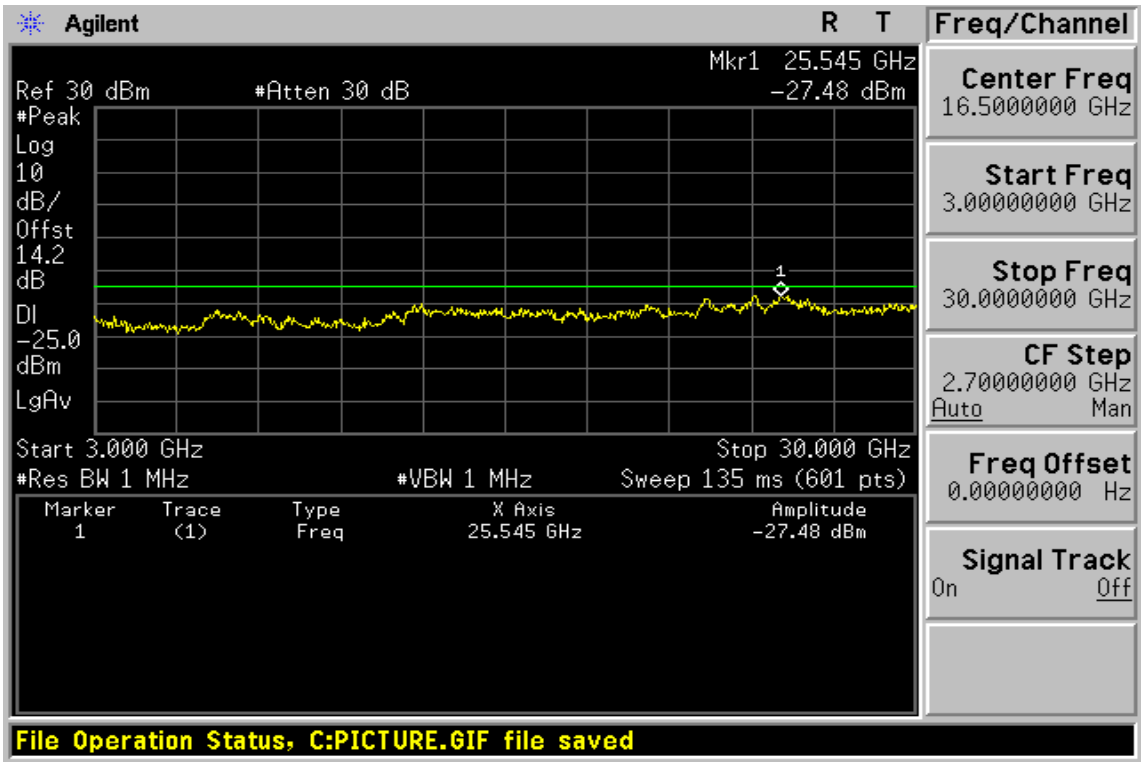




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Figure 9-238: Out of Band emission at antenna terminals–20MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Highest





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

(QPSK RB Number: 1 Offset: 0)

Fundamental Frequency :2510 MHz Engineer :Marcus
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	---
5020.00	H	---	-13.00	---
7530.00	H	---	-13.00	---
10040.00	H	---	-13.00	---
12550.00	H	---	-13.00	---
15060.00	H	---	-13.00	---
17570.00	H	---	-13.00	---
20080.00	H	---	-13.00	---
22590.00	H	---	-13.00	---
25100.00	H	---	-13.00	---
25500.00	S	-27.94	-13.00	14.94

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

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Fundamental Frequency :2535 MHz Engineer :Marcus
Operation Mode :TX Mid

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	H	---	-13.00	---
7605.00	H	---	-13.00	---
10140.00	H	---	-13.00	---
12675.00	H	---	-13.00	---
15210.00	H	---	-13.00	---
17745.00	H	---	-13.00	---
20280.00	H	---	-13.00	---
22815.00	H	---	-13.00	---
25350.00	H	---	-13.00	---
25545.00	S	-26.18	-13.00	13.18

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

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Fundamental Frequency :2560MHz Engineer :Marcus
Operation Mode :TX High

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	H	---	-13.00	---
7680.00	H	---	-13.00	---
10240.00	H	---	-13.00	---
12800.00	H	---	-13.00	---
15360.00	H	---	-13.00	---
17920.00	H	---	-13.00	---
20480.00	H	---	-13.00	---
23040.00	H	---	-13.00	---
25545.00	S	-27.48	-13.00	14.48
25600.00	H	---	-13.00	---

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

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Figure 9-239: Band edge emission at antenna terminals –20MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Lowest

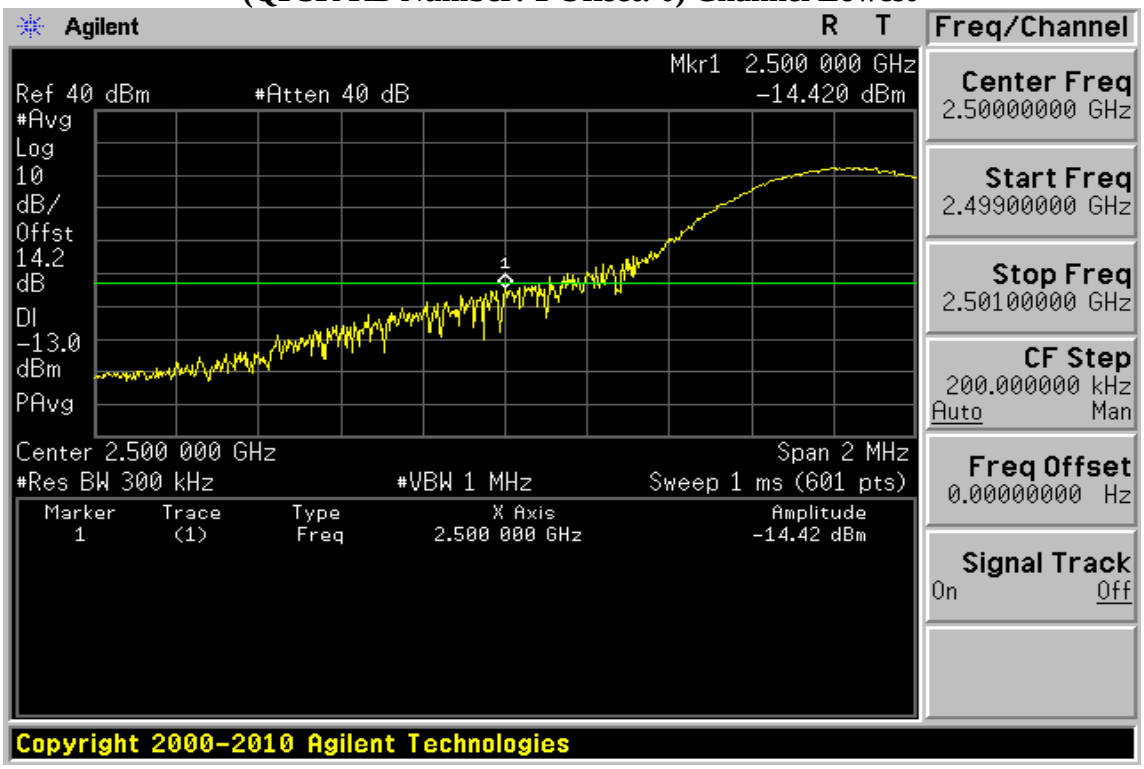
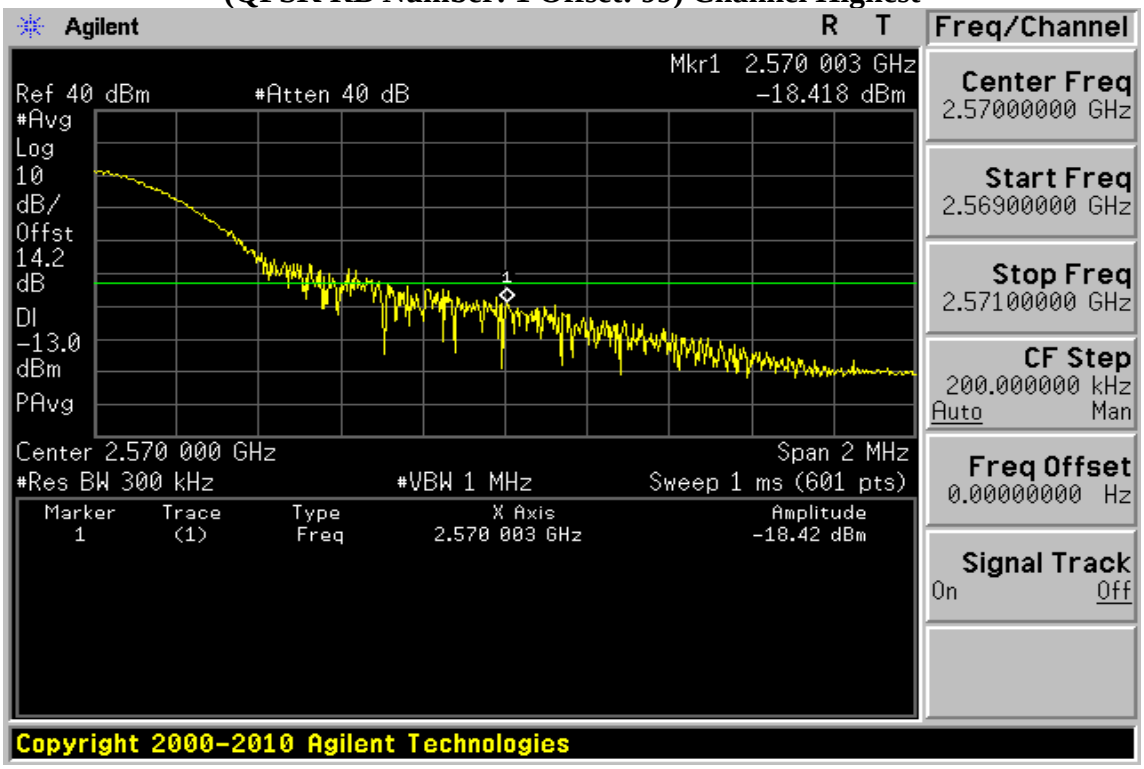


Figure 9-240: Band edge emission at antenna terminals –20MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 99) Channel Highest



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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 :Marcus

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 9-241: Band edge emission at antenna terminals –20MHz BW LTE-Band 7 (QPSK RB Number: 100 Offset: 0) Channel Lowest

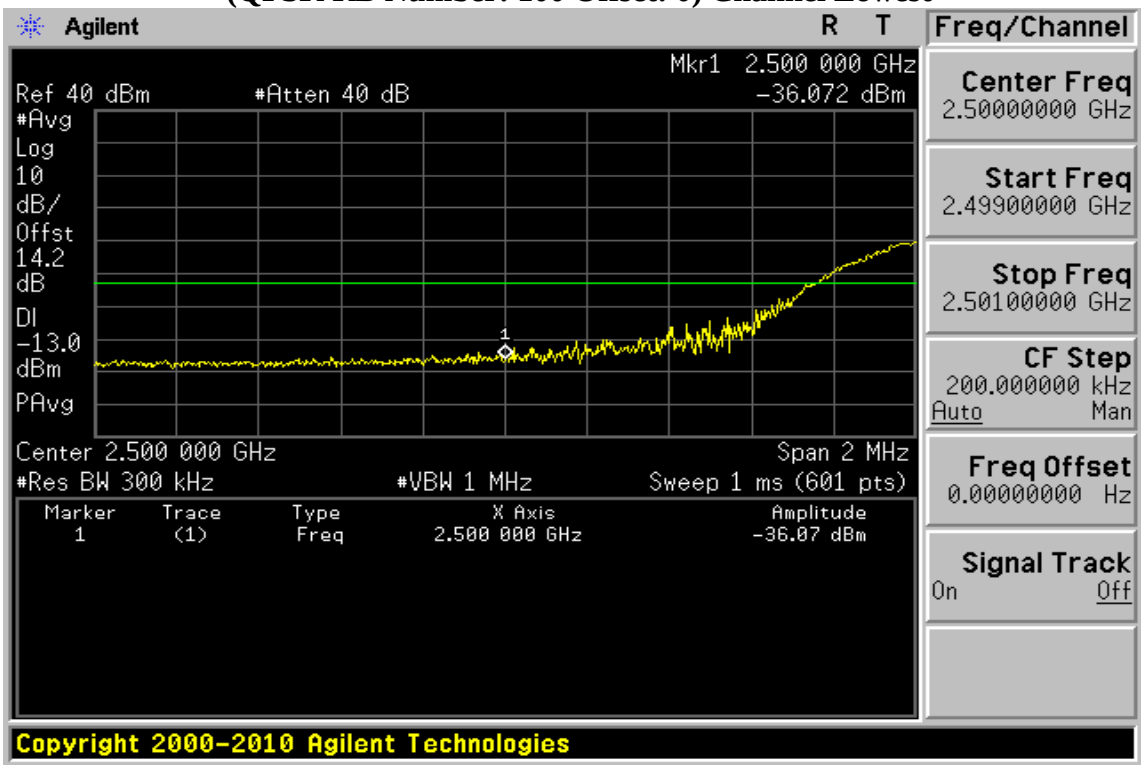
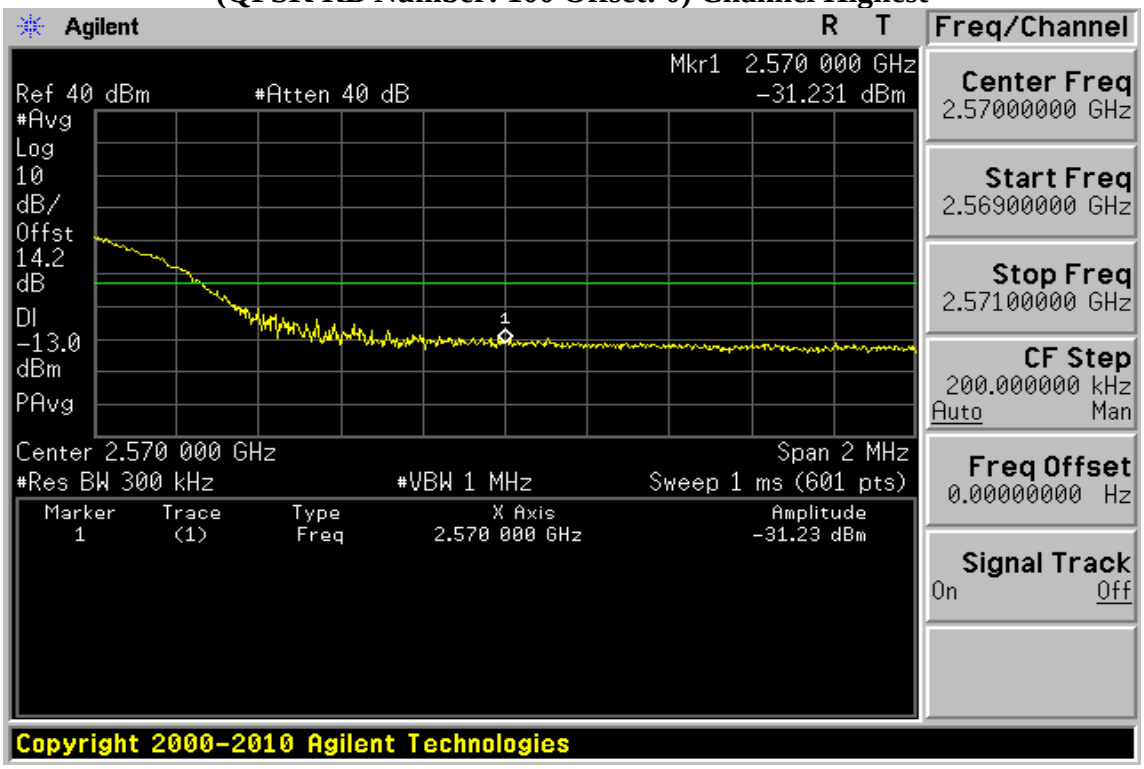


Figure 9-242: Band edge emission at antenna terminals –20MHz BW LTE-Band 7 (QPSK RB Number: 100 Offset: 0) Channel Highest



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

(QPSK RB Number: 100 Offset: 0)

Test Mode 20MHz BW LTE-Band 7 Engineer :Marcus

Freq. MHz	Reading dBm	Limit dBm	Safe Margin dB
2500.000	-36.07	-13.00	23.07
2570.000	-31.23	-13.00	18.23

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Figure 9-243: Emission MASK at antenna terminals –20MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Lowest

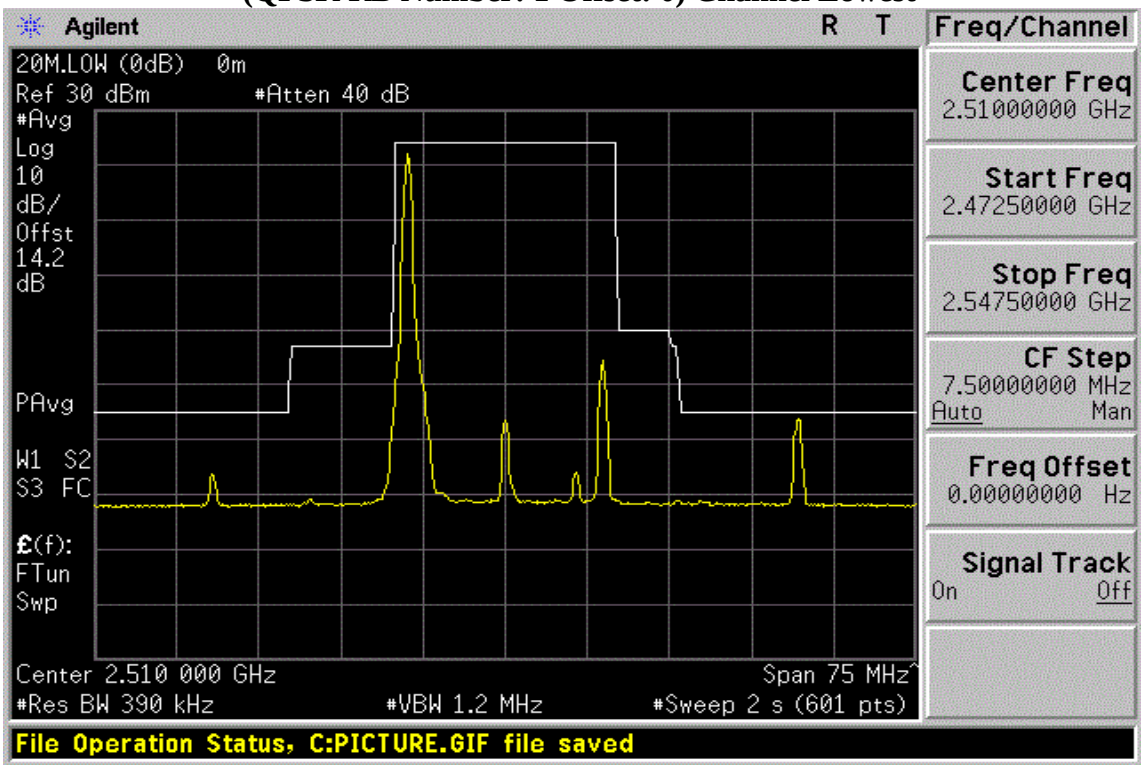
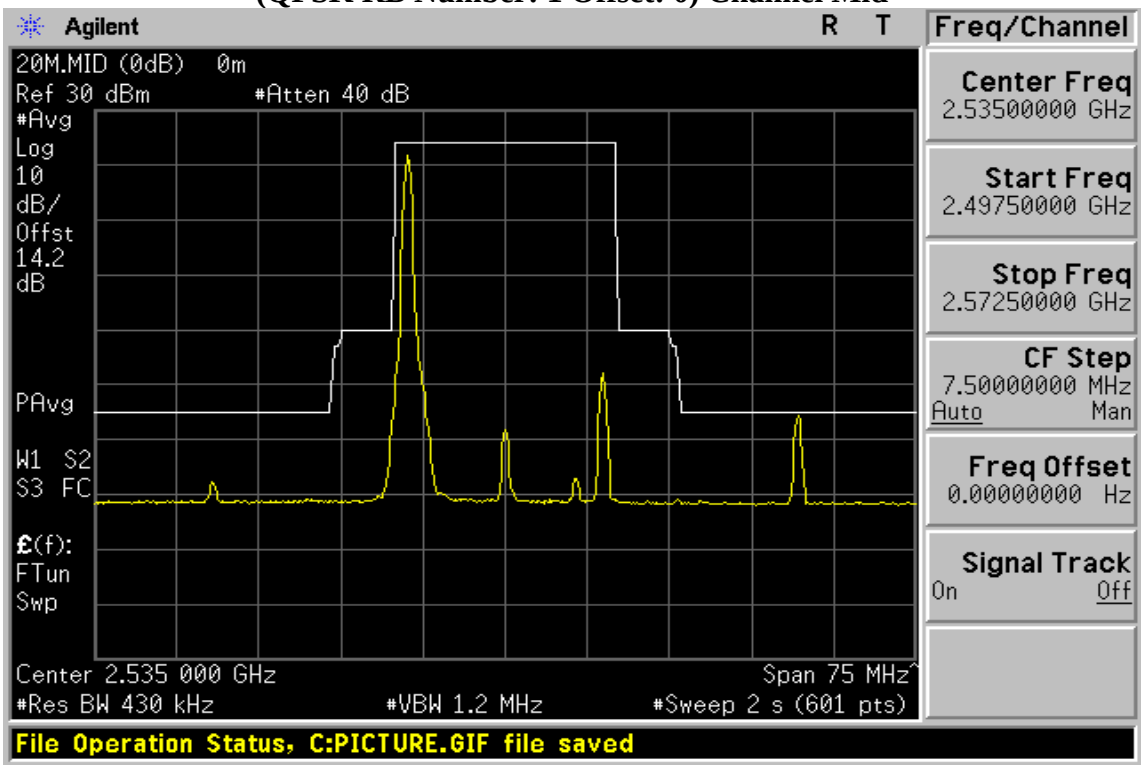


Figure 9-244: Emission MASK at antenna terminals –20MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Mid



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Figure 9-245: Emission MASK at antenna terminals –20MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 0) Channel Highest

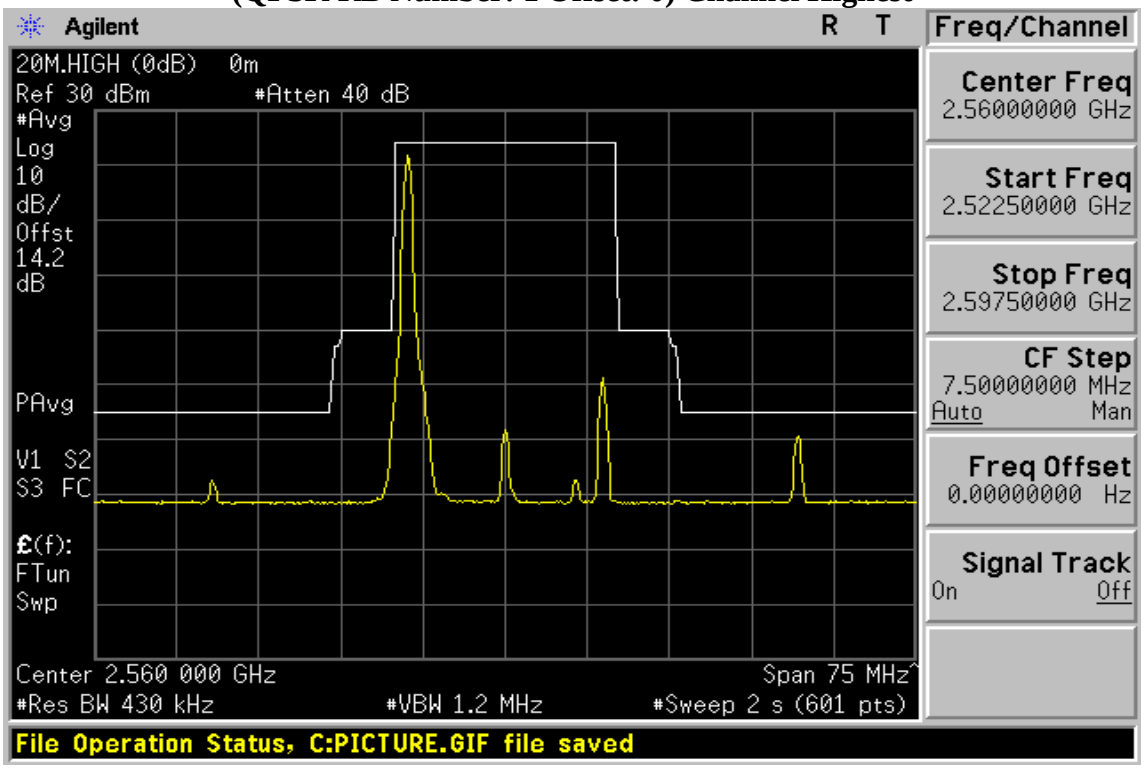
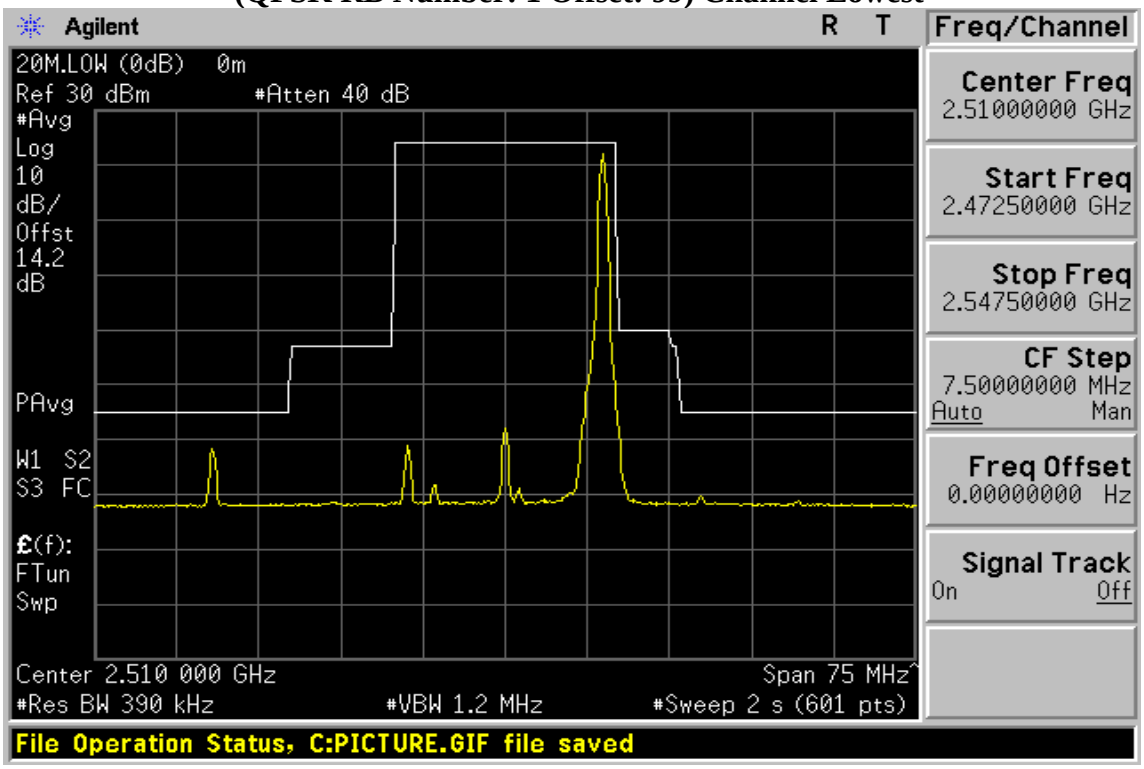


Figure 9-246: Emission MASK at antenna terminals –20MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 99) Channel Lowest



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Figure 9-247: Emission MASK at antenna terminals –20MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 99) Channel Mid

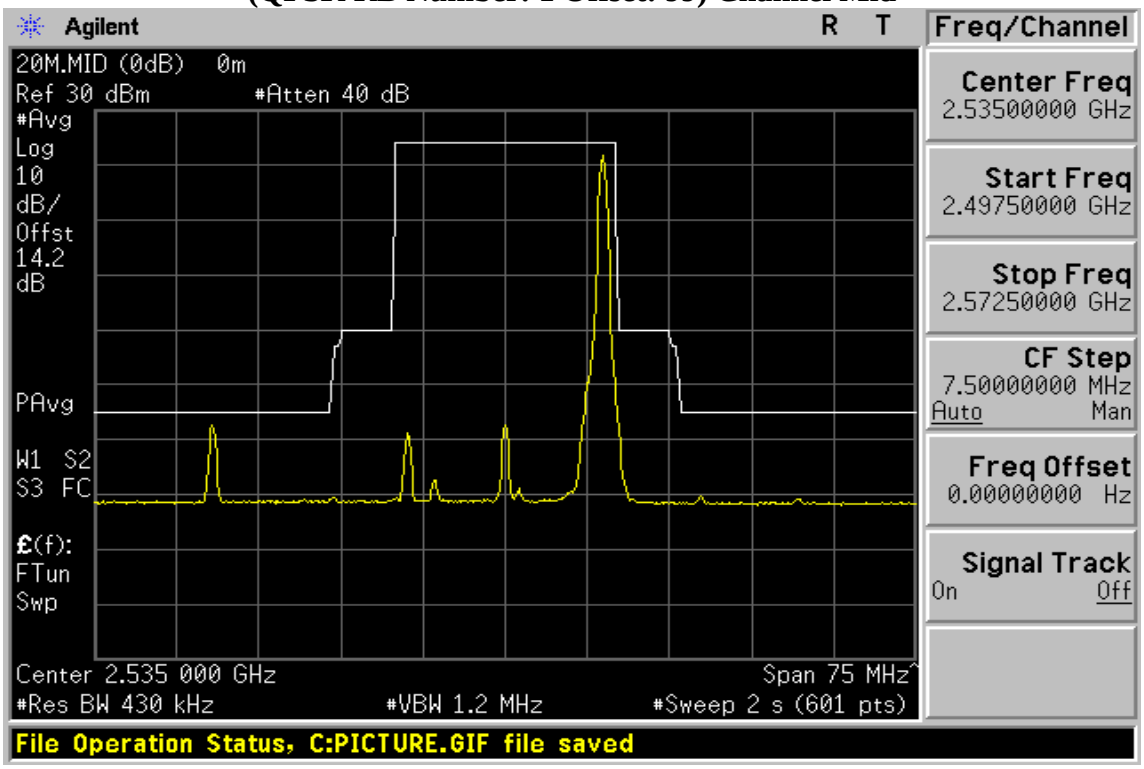
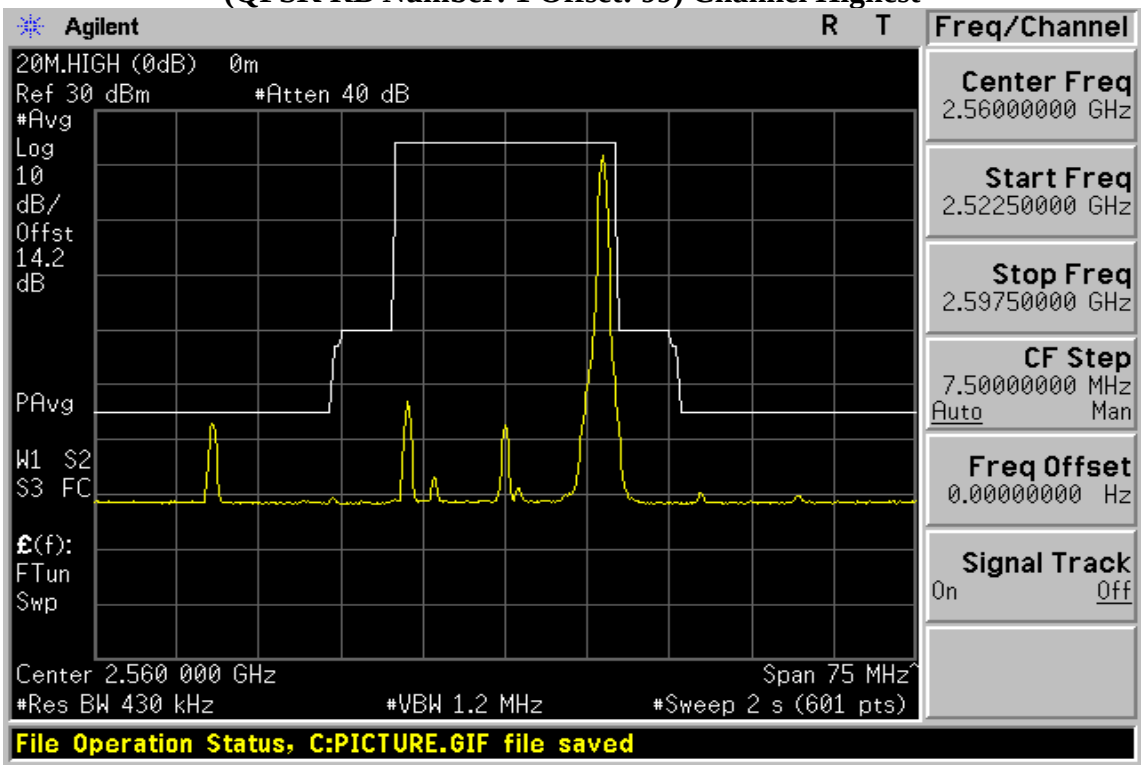


Figure 9-248: Emission MASK at antenna terminals –20MHz BW LTE-Band 7 (QPSK RB Number: 1 Offset: 99) Channel Highest



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Figure 9-249: Emission MASK at antenna terminals –20MHz BW LTE-Band 7 (QPSK RB Number: 100 Offset: 0) Channel Lowest

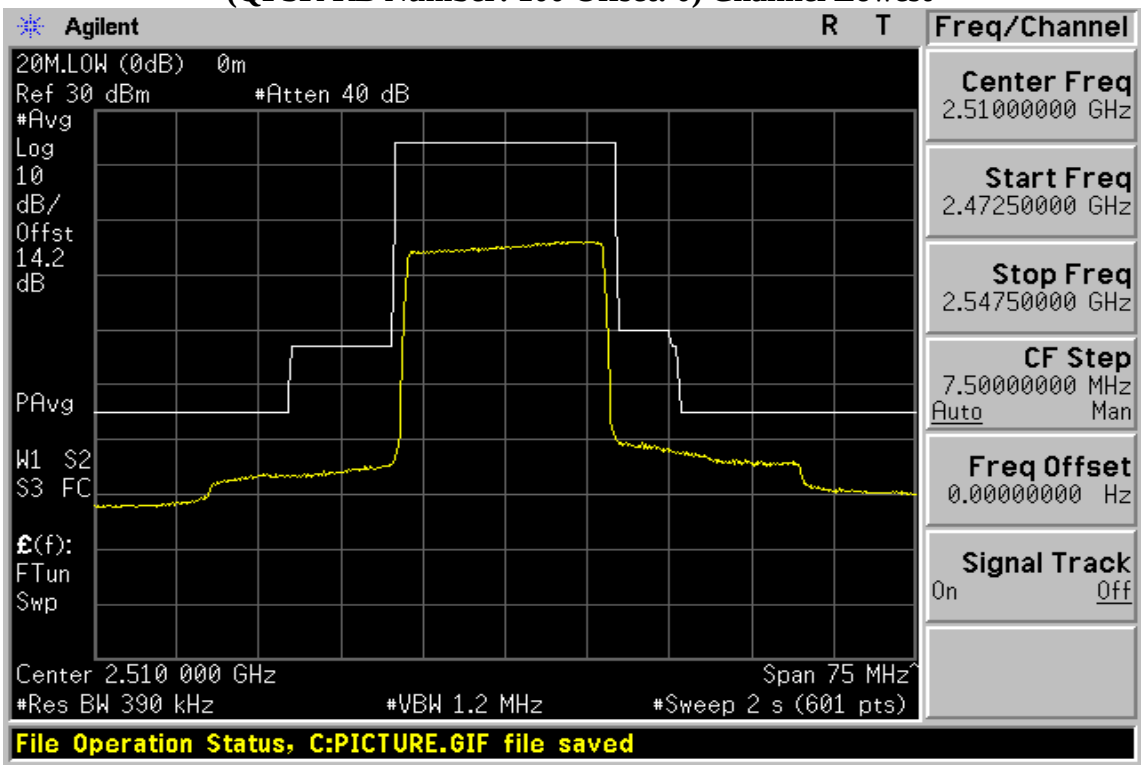
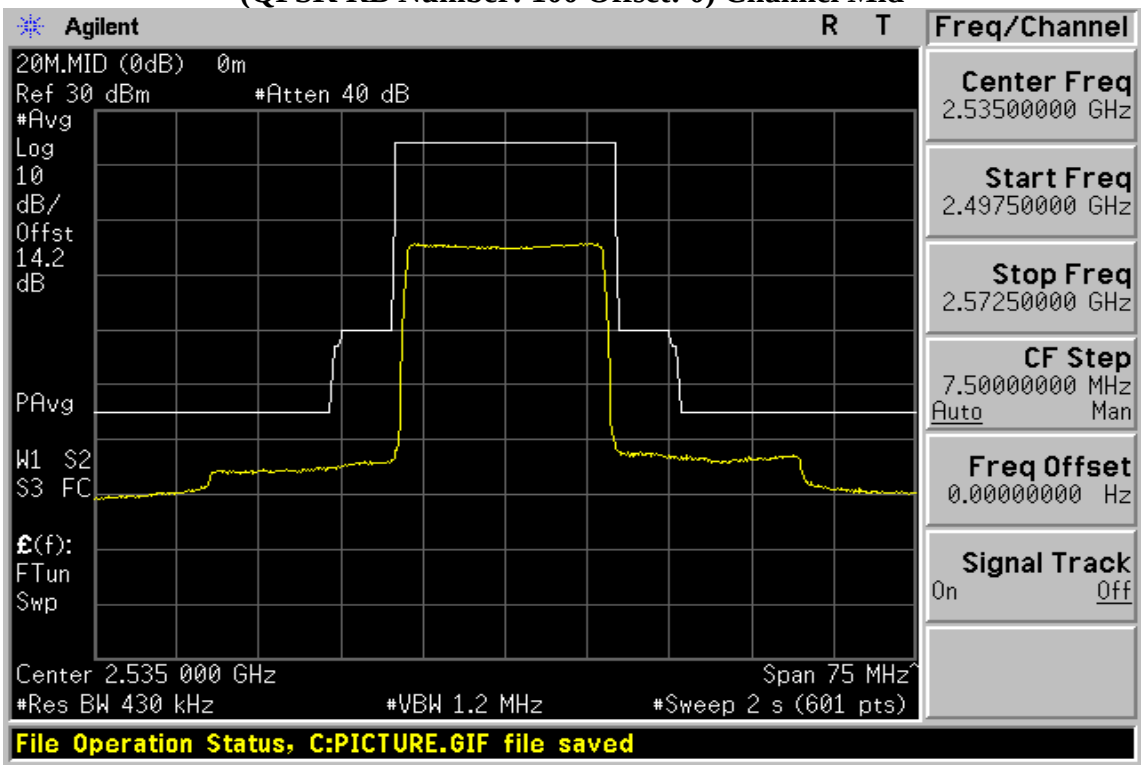
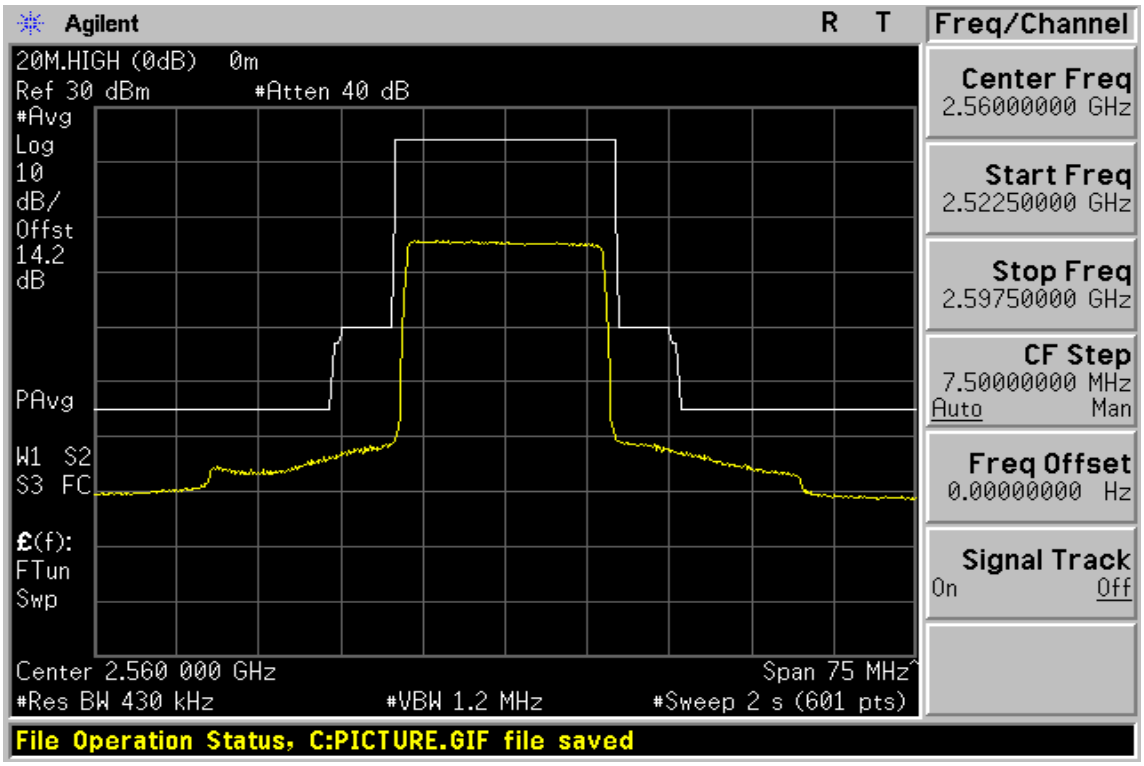


Figure 9-250: Emission MASK at antenna terminals –20MHz BW LTE-Band 7 (QPSK RB Number: 100 Offset: 0) Channel Mid



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Figure 9-251: Emission MASK at antenna terminals –20MHz BW LTE-Band 7 (QPSK RB Number: 100 Offset: 0) Channel Highest



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10. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

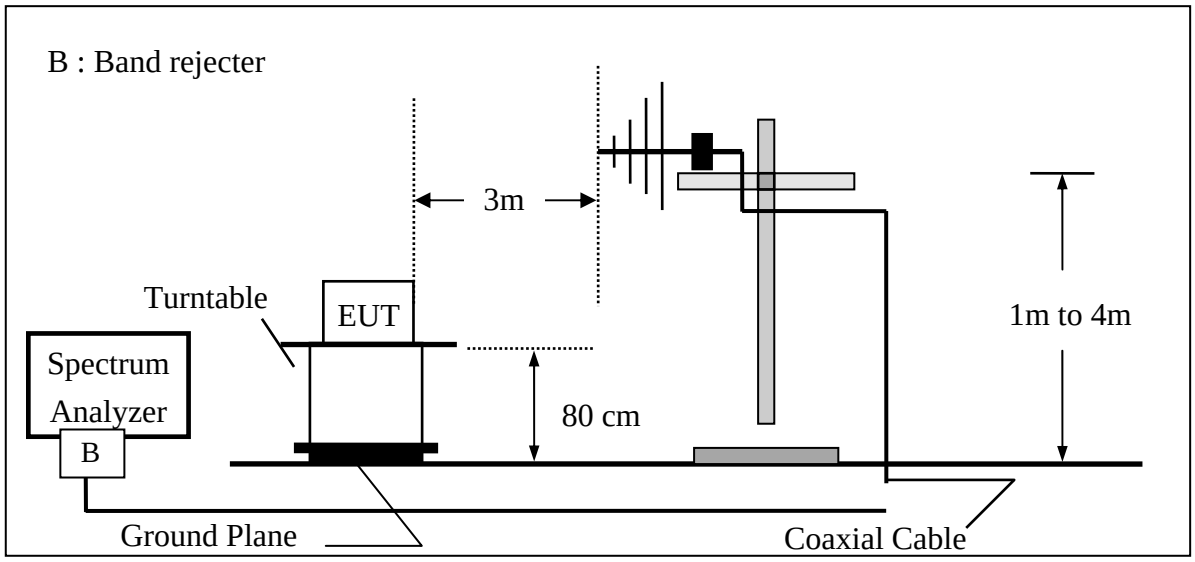
10.1. Standard Applicable:

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).

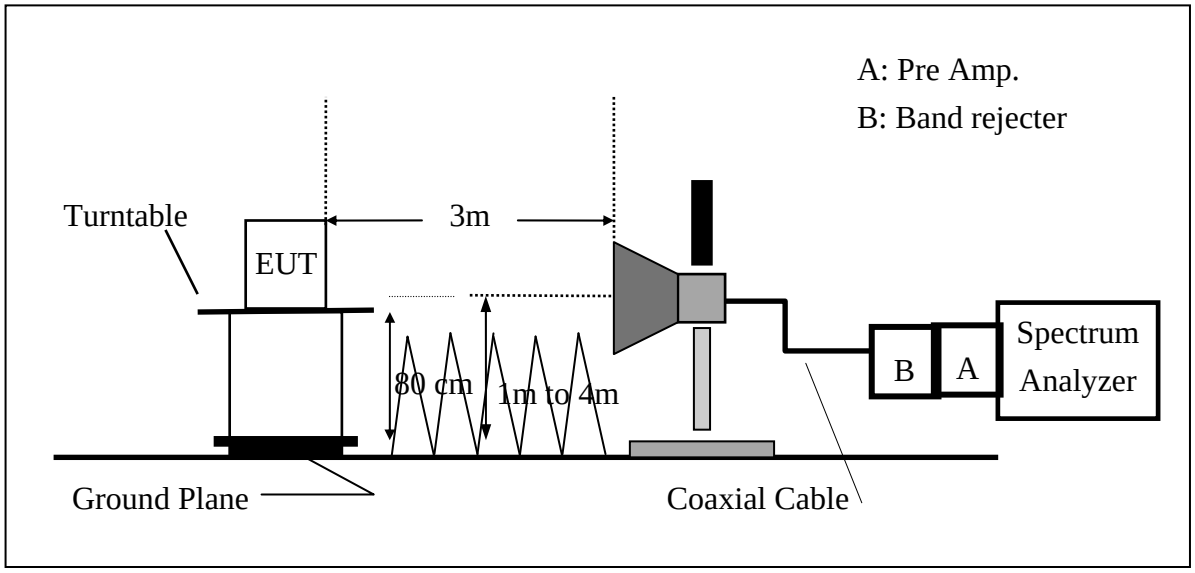
10.2. EUT Setup (Block Diagram of Configuration):

Radiated Emission Test Set-Up, Frequency Below 1000MHz



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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

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Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Band	:GSM 850	Test Date	:2014-11-29
ARFCN	:CH 128	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
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	H	-57.36	-56.50	3.56	-4.42	-13.00	-44.36
2472.60	H	-48.78	-47.51	4.18	-5.45	-13.00	-35.78
3296.80	H	---					
4121.00	H	---					
4945.20	H	---					
5769.40	H	---					
6593.60	H	---					
7417.80	H	---					
8242.00	H	---					

ERP(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..

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Operation Band	:GSM 850	Test Date	:2014-11-29
ARFCN	:CH 128	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
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
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	H	-61.28	-60.42	3.56	-4.42	-13.00	-48.28
2472.60	H	-52.62	-51.35	4.18	-5.45	-13.00	-39.62
3296.80	H	---					
4121.00	H	---					
4945.20	H	---					
5769.40	H	---					
6593.60	H	---					
7417.80	H	---					
8242.00	H	---					

ERP(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.

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Operation Band	:GSM 850	Test Date	:2014-11-29
ARFCN	:CH 190	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
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	H	-57.13	-56.17	3.49	-4.45	-13.00	-44.13
2509.80	H	-52.34	-51.12	4.28	-5.49	-13.00	-39.34
3346.40	H	---					
4183.00	H	---					
5019.60	H	---					
5856.20	H	---					
6692.80	H	---					
7529.40	H	---					
8366.00	H	---					

ERP(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.

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Operation Band	:GSM 850	Test Date	:2014-11-29
ARFCN	:CH 190	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
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
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	H	-60.31	-59.35	3.49	-4.45	-13.00	-47.31
2509.80	H	-55.58	-54.37	4.28	-5.49	-13.00	-42.58
3346.40	H	---					
4183.00	H	---					
5019.60	H	---					
5856.20	H	---					
6692.80	H	---					
7529.40	H	---					
8366.00	H	---					

ERP(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.

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Operation Band	:GSM 850	Test Date	:2014-11-29
ARFCN	:CH 251	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
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	H	-58.77	-57.72	3.43	-4.48	-13.00	-45.77
2546.40	H	-54.94	-53.77	4.37	-5.54	-13.00	-41.94
3395.20	H	---					
4244.00	H	---					
5092.80	H	---					
5941.60	H	---					
6790.40	H	---					
7639.20	H	---					
8488.00	H	-48.23	-48.39	10.64	-10.48	-13.00	-35.23

ERP (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.

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Operation Band	:GSM 850	Test Date	:2014-11-29
ARFCN	:CH 251	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
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
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	H	-61.82	-60.77	3.43	-4.48	-13.00	-48.82
2546.40	H	-54.76	-53.59	4.37	-5.54	-13.00	-41.76
3395.20	H	---					
4244.00	H	---					
5092.80	H	---					
5941.60	H	---					
6790.40	H	---					
7639.20	H	---					
8488.00	H	-49.03	-49.18	10.64	-10.48	-13.00	-36.03

ERP (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.

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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 Output Level	Antenna Gain	Cable Loss	Limit	Margin
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	H	-45.12	-47.44	9.13	-6.80	-13.00	-32.12
5550.60	H	-48.20	-50.30	10.50	-8.40	-13.00	-35.20
7400.80	H	-51.32	-53.34	11.80	-9.78	-13.00	-38.32
9251.00	H	---					
11101.20	H	---					
12951.40	H	---					
14801.60	H	---					
16651.80	H	---					
18502.00	H	---					

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.

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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.	:HORIZONTAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
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	H	-46.55	-48.88	9.13	-6.80	-13.00	-33.55
5550.60	H	-43.01	-45.11	10.50	-8.40	-13.00	-30.01
7400.80	H	-46.90	-48.91	11.80	-9.78	-13.00	-33.90
9251.00	H	---					
11101.20	H	---					
12951.40	H	---					
14801.60	H	---					
16651.80	H	---					
18502.00	H	---					

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.

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Operation Band	:GSM 1900	Test Date	:2014-11-20
ARFCN	:CH 661	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1880 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
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	H	-43.75	-46.06	9.16	-6.85	-13.00	-30.75
5640.00	H	-47.83	-49.86	10.50	-8.47	-13.00	-34.83
7520.00	H	-51.64	-53.68	11.92	-9.87	-13.00	-38.64
9400.00	H	---					
11280.00	H	---					
13160.00	H	---					
15040.00	H	---					
16920.00	H	---					
18800.00	H	---					

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.

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Operation Band	:GSM 1900	Test Date	:2014-11-20
ARFCN	:CH 661	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1880 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
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	H	-45.59	-47.90	9.16	-6.85	-13.00	-32.59
5640.00	H	-45.24	-47.27	10.50	-8.47	-13.00	-32.24
7520.00	H	-45.13	-47.17	11.92	-9.87	-13.00	-32.13
9400.00	H	---					
11280.00	H	---					
13160.00	H	---					
15040.00	H	---					
16920.00	H	---					
18800.00	H	---					

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.
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Operation Band	:GSM 1900	Test Date	:2014-11-20
ARFCN	:CH 810	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
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	H	-40.66	-42.96	9.20	-6.90	-13.00	-27.66
5729.40	H	-49.84	-51.80	10.50	-8.54	-13.00	-36.84
7639.20	H	-50.95	-53.03	12.01	-9.94	-13.00	-37.95
9549.00	H	---					
11458.80	H	---					
13368.60	H	---					
15278.40	H	---					
17188.20	H	---					
19098.00	H	---					

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.

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Operation Band	:GSM 1900	Test Date	:2014-11-20
ARFCN	:CH 810	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
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	H	-42.30	-44.59	9.20	-6.90	-13.00	-29.30
5729.40	H	-48.35	-50.31	10.50	-8.54	-13.00	-35.35
7639.20	H	-46.23	-48.30	12.01	-9.94	-13.00	-33.23
9549.00	H	---					
11458.80	H	---					
13368.60	H	---					
15278.40	H	---					
17188.20	H	---					
19098.00	H	---					

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.
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Radiated Spurious Emission Measurement Result: WCDMA II Mode

Operation Band	:WCDMA B2	Test Date	:2014-11-20
ARFCN	:CH 9262	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
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	H	-55.15	-57.48	9.13	-6.80	-13.00	-42.15
5557.20	H	---					
7409.60	H	---					
9262.00	H	---					
11114.40	H	---					
12966.80	H	---					
14819.20	H	---					
16671.60	H	---					
18524.00	H	---					

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.

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Operation Band	:WCDMA B2	Test Date	:2014-11-20
ARFCN	:CH 9262	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
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	H	-57.42	-59.74	9.13	-6.80	-13.00	-44.42
5557.20	H	---					
7409.60	H	---					
9262.00	H	---					
11114.40	H	---					
12966.80	H	---					
14819.20	H	---					
16671.60	H	---					
18524.00	H	---					

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.

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Operation Band	:WCDMA B2	Test Date	:2014-11-20
ARFCN	:CH 9400	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1880 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
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	H	-54.23	-56.54	9.16	-6.85	-13.00	-41.23
5640.00	H	---					
7520.00	H	---					
9400.00	H	---					
11280.00	H	---					
13160.00	H	---					
15040.00	H	---					
16920.00	H	---					
18800.00	H	---					

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.

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Operation Band	:WCDMA B2	Test Date	:2014-11-20
ARFCN	:CH 9400	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1880 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
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	H	-57.01	-59.32	9.16	-6.85	-13.00	-44.01
5640.00	H	---					
7520.00	H	---					
9400.00	H	---					
11280.00	H	---					
13160.00	H	---					
15040.00	H	---					
16920.00	H	---					
18800.00	H	---					

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.

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Operation Band	:WCDMA B2	Test Date	:2014-11-20
ARFCN	:CH 9538	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
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	H	-52.98	-55.28	9.19	-6.90	-13.00	-39.98
5722.80	H	---					
7630.40	H	---					
9538.00	H	---					
11445.60	H	---					
13353.20	H	---					
15260.80	H	---					
17168.40	H	---					
19076.00	H	---					

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.

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Operation Band	:WCDMA B2	Test Date	:2014-11-20
ARFCN	:CH 9538	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
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	H	-54.64	-56.94	9.19	-6.90	-13.00	-41.64
5722.80	H	---					
7630.40	H	---					
9538.00	H	---					
11445.60	H	---					
13353.20	H	---					
15260.80	H	---					
17168.40	H	---					
19076.00	H	---					

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.

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Radiated Spurious Emission Measurement Result: WCDMA IV Mode

Operation Band	:WCDMA B4	Test Date	:2014-11-19
ARFCN	:CH 1312	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1712.4 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
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	H	-55.93	-58.18	8.80	-6.55	-13.00	-42.93
5137.20	H	---					
6849.60	H	---					
8562.00	H	---					
10274.40	H	---					
11986.80	H	---					
13699.20	H	---					
15411.60	H	---					
17124.00	H	---					

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.

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Operation Band	:WCDMA B4	Test Date	:2014-11-19
ARFCN	:CH 1312	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1712.4 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
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	H	-57.55	-59.80	8.80	-6.55	-13.00	-44.55
5137.20	H	---					
6849.60	H	---					
8562.00	H	---					
10274.40	H	---					
11986.80	H	---					
13699.20	H	---					
15411.60	H	---					
17124.00	H	---					

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.

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Operation Band	:WCDMA B4	Test Date	:2014-11-19
ARFCN	:CH 1413	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1732.6 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
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	H	-54.08	-56.40	8.91	-6.59	-13.00	-41.08
5197.80	H	---					
6930.40	H	---					
8663.00	H	---					
10395.60	H	---					
12128.20	H	---					
13860.80	H	---					
15593.40	H	---					
17326.00	H	---					

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.

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Operation Band	:WCDMA B4	Test Date	:2014-11-19
ARFCN	:CH 1413	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1732.6 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
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	H	-54.03	-56.36	8.91	-6.59	-13.00	-41.03
5197.80	H	---					
6930.40	H	---					
8663.00	H	---					
10395.60	H	---					
12128.20	H	---					
13860.80	H	---					
15593.40	H	---					
17326.00	H	---					

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.

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

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
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	H	-55.14	-57.52	9.00	-6.62	-13.00	-42.14
5257.80	H	---					
7010.40	H	---					
8763.00	H	---					
10515.60	H	---					
12268.20	H	---					
14020.80	H	---					
15773.40	H	---					
17526.00	H	---					

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.

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

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
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	H	-56.06	-58.44	9.00	-6.62	-13.00	-43.06
5257.80	H	---					
7010.40	H	---					
8763.00	H	---					
10515.60	H	---					
12268.20	H	---					
14020.80	H	---					
15773.40	H	---					
17526.00	H	---					

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.

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Radiated Spurious Emission Measurement Result: WCDMA V Mode

Operation Band	:WCDMA B5	Test Date	:2014-11-29
ARFCN	:CH 4132	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:826.4 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBd	dB	dBm	dB
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	H	-62.87	-61.99	3.55	-4.42	-13.00	-49.87
2479.20	H	---					
3305.60	H	---					
4132.00	H	---					
4958.40	H	---					
5784.80	H	---					
6611.20	H	---					
7437.60	H	---					
8264.00	H	---					

ERP (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.

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Operation Band	:WCDMA B5	Test Date	:2014-11-29
ARFCN	:CH 4132	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:826.4 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
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
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	H	-64.29	-63.41	3.55	-4.42	-13.00	-51.29
2479.20	H	---					
3305.60	H	---					
4132.00	H	---					
4958.40	H	---					
5784.80	H	---					
6611.20	H	---					
7437.60	H	---					
8264.00	H	---					

ERP (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.

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Operation Band	:WCDMA B5	Test Date	:2014-11-29
ARFCN	:CH 4183	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
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	H	-63.10	-62.14	3.49	-4.45	-13.00	-50.10
2509.80	H	---					
3346.40	H	---					
4183.00	H	---					
5019.60	H	---					
5856.20	H	---					
6692.80	H	---					
7529.40	H	---					
8366.00	H	---					

ERP (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.

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Operation Band	:WCDMA B5	Test Date	:2014-11-29
ARFCN	:CH 4183	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
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
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	H	-65.30	-64.34	3.49	-4.45	-13.00	-52.30
2509.80	H	---					
3346.40	H	---					
4183.00	H	---					
5019.60	H	---					
5856.20	H	---					
6692.80	H	---					
7529.40	H	---					
8366.00	H	---					

ERP (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.

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Operation Band	:WCDMA B5	Test Date	:2014-11-29
ARFCN	:CH 4233	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
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	H	-62.19	-61.16	3.44	-4.48	-13.00	-49.19
2539.80	H	---					
3386.40	H	---					
4233.00	H	---					
5079.60	H	---					
5926.20	H	---					
6772.80	H	---					
7619.40	H	---					
8466.00	H	---					

ERP (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.

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Operation Band	:WCDMA B5	Test Date	:2014-11-29
ARFCN	:CH 4233	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
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
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	H	-63.56	-62.53	3.44	-4.48	-13.00	-50.56
2539.80	H	---					
3386.40	H	---					
4233.00	H	---					
5079.60	H	---					
5926.20	H	---					
6772.80	H	---					
7619.40	H	---					
8466.00	H	---					

ERP (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.

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Radiated Spurious Emission Measurement Result: 1.4MHz 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

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
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	H	-52.84	-55.17	9.13	-6.80	-13.00	-39.84
5552.10	H	---					
7402.80	H	-47.13	-49.14	11.81	-9.79	-13.00	-34.13
9253.50	H	---					
11104.20	H	---					
12954.90	H	---					
14805.60	H	---					
16656.30	H	---					
18507.00	H	---					

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.

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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.	:HORIZONTAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
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	H	-55.74	-58.06	9.13	-6.80	-13.00	-42.74
5552.10	H	---					
7402.80	H	-51.18	-53.20	11.81	-9.79	-13.00	-38.18
9253.50	H	---					
11104.20	H	---					
12954.90	H	---					
14805.60	H	---					
16656.30	H	---					
18507.00	H	---					

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.

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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	:TX MID		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
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	H	-55.23	-57.54	9.16	-6.85	-13.00	-42.23
5640.00	H	---					
7520.00	H	-47.55	-49.60	11.92	-9.87	-13.00	-34.55
9400.00	H	---					
11280.00	H	---					
13160.00	H	---					
15040.00	H	---					
16920.00	H	---					
18800.00	H	---					

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.

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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	:TX MID		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
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	H	-56.22	-58.54	9.16	-6.85	-13.00	-43.22
5640.00	H	---					
7520.00	H	-49.60	-51.65	11.92	-9.87	-13.00	-36.60
9400.00	H	---					
11280.00	H	---					
13160.00	H	---					
15040.00	H	---					
16920.00	H	---					
18800.00	H	---					

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.

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Operation Band	:LTE B2	Test Date	:2014-11-20
ARFCN	:CH 19193 16QAM BW 1.4 RB 1 5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1909.3 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
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	H	-49.83	-52.12	9.20	-6.90	-13.00	-36.83
5727.90	H	---					
7637.20	H	---					
9546.50	H	---					
11455.80	H	---					
13365.10	H	---					
15274.40	H	---					
17183.70	H	---					
19093.00	H	---					

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.

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Operation Band	:LTE B2	Test Date	:2014-11-20
ARFCN	:CH 19193 16QAM BW 1.4 RB 1 5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1909.3 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
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	H	-53.13	-55.43	9.20	-6.90	-13.00	-40.13
5727.90	H	---					
7637.20	H	---					
9546.50	H	---					
11455.80	H	---					
13365.10	H	---					
15274.40	H	---					
17183.70	H	---					
19093.00	H	---					

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.

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Radiated Spurious Emission Measurement Result: 3MHz BW LTE-Band 4(The Worst Case)

Operation Band	:LTE B4	Test Date	:2014-11-20
ARFCN	:CH 19965 16QAM BW 3 RB 1 0	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1711.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Safe 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	H	-43.03	-45.28	8.80	-6.54	-13.00	-30.03
5134.50	H	---					
6846.00	H	-37.50	-39.36	11.22	-9.36	-13.00	-24.50
8557.50	H	---					
10269.00	H	---					
11980.50	H	---					
13692.00	H	---					
15403.50	H	---					
17115.00	H	---					

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.

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Operation Band	:LTE B4	Test Date	:2014-11-20
ARFCN	:CH 19965 16QAM BW 3 RB 1 0	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1711.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
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	H	-49.12	-51.37	8.80	-6.54	-13.00	-36.12
5134.50	H	---					
6846.00	H	-44.75	-46.62	11.22	-9.36	-13.00	-31.75
8557.50	H	---					
10269.00	H	---					
11980.50	H	---					
13692.00	H	---					
15403.50	H	---					
17115.00	H	---					

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.
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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 Mode	:TX MID		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
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	H	-45.30	-47.62	8.91	-6.59	-13.00	-32.30
5197.50	H	---					
6930.00	H	-41.77	-43.67	11.32	-9.42	-13.00	-28.77
8662.50	H	---					
10395.00	H	---					
12127.50	H	---					
13860.00	H	---					
15592.50	H	---					
17325.00	H	---					

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.

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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 Mode	:TX MID		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
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	H	-49.56	-51.88	8.91	-6.59	-13.00	-36.56
5197.50	H	---					
6930.00	H	-45.44	-47.34	11.32	-9.42	-13.00	-32.44
8662.50	H	---					
10395.00	H	---					
12127.50	H	---					
13860.00	H	---					
15592.50	H	---					
17325.00	H	---					

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.

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Operation Band	:LTE B4	Test Date	:2014-11-20
ARFCN	:CH 20385 16QAM BW 3 RB 1 0	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1753.5 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	F/H/E/S	dBm	dBm	dBi	dB	dBm	dB
32.91	S	-51.61	-39.32	-11.48	-0.80	-13.00	-38.61
179.38	S	-73.12	-74.79	3.14	-1.46	-13.00	-60.12
378.23	S	-71.57	-75.73	6.19	-2.03	-13.00	-58.57
637.22	S	-64.98	-68.33	6.02	-2.67	-13.00	-51.98
773.99	S	-52.60	-55.57	5.86	-2.90	-13.00	-39.60
939.86	S	-65.01	-67.21	5.53	-3.32	-13.00	-52.01
3507.00	H	-42.79	-45.17	9.00	-6.63	-13.00	-29.79
5260.50	H	---					
7014.00	H	-40.83	-42.76	11.41	-9.48	-13.00	-27.83
8767.50	H	---					
10521.00	H	---					
12274.50	H	---					
14028.00	H	---					
15781.50	H	---					
17535.00	H	---					

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.

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Operation Band	:LTE B4	Test Date	:2014-11-20
ARFCN	:CH 20385 16QAM BW 3 RB 1 0	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1753.5 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
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
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	H	-48.57	-50.94	9.00	-6.63	-13.00	-35.57
5260.50	H	---					
7014.00	H	-45.14	-47.07	11.41	-9.48	-13.00	-32.14
8767.50	H	---					
10521.00	H	---					
12274.50	H	---					
14028.00	H	---					
15781.50	H	---					
17535.00	H	---					

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.

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Radiated Spurious Emission Measurement Result: 10MHz BW LTE-Band 5(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

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
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	H	-62.05	-61.15	3.53	-4.43	-13.00	-49.05
2487.00	H	---					
3316.00	H	---					
4145.00	H	---					
4974.00	H	---					
5803.00	H	---					
6632.00	H	---					
7461.00	H	---					
8290.00	H	---					

ERP(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.

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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.	: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	-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	H	-64.60	-63.70	3.53	-4.43	-13.00	-51.60
2487.00	H	---					
3316.00	H	---					
4145.00	H	---					
4974.00	H	---					
5803.00	H	---					
6632.00	H	---					
7461.00	H	---					
8290.00	H	---					

ERP(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.

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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	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	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	-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	---					
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)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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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	Engineer	:Tin
Operation Mode	:TX MID		
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
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)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---“ : denotes Noise Floor.

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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
Fundamental Frequency	:844 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
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	H	-61.55	-60.54	3.46	-4.47	-13.00	-48.55
2532.00	H	---					
3376.00	H	---					
4220.00	H	---					
5064.00	H	---					
5908.00	H	---					
6752.00	H	---					
7596.00	H	---					
8440.00	H	---					

ERP(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.

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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
Fundamental Frequency	:844 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
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	-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	---					
4220.00	H	---					
5064.00	H	---					
5908.00	H	---					
6752.00	H	---					
7596.00	H	---					
8440.00	H	---					

ERP(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.

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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

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
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	H	-49.59	-51.97	10.31	-7.92	-25.00	-24.59
7522.50	H	-45.62	-47.67	11.92	-9.87	-25.00	-20.62
10030.00	H	-38.81	-40.18	12.91	-11.54	-25.00	-13.81
12537.50	H	---					
15045.00	H	---					
17552.50	H	---					
20060.00	H	---					
22567.50	H	---					
25075.00	H	---					

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.

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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.	:HORIZONTAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
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	H	-48.47	-50.85	10.31	-7.92	-25.00	-23.47
7522.50	H	-48.45	-50.49	11.92	-9.87	-25.00	-23.45
10030.00	H	-40.62	-41.99	12.91	-11.54	-25.00	-15.62
12537.50	H	---					
15045.00	H	---					
17552.50	H	---					
20060.00	H	---					
22567.50	H	---					
25075.00	H	---					

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.

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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
Fundamental Frequency	:2535 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
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	H	-55.69	-58.04	10.33	-7.98	-25.00	-30.69
7605.00	H	-46.84	-48.91	11.99	-9.92	-25.00	-21.84
10140.00	H	-37.87	-39.19	12.93	-11.61	-25.00	-12.87
12675.00	H	---					
15210.00	H	---					
17745.00	H	---					
20280.00	H	---					
22815.00	H	---					
25350.00	H	---					

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.

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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
Fundamental Frequency	:2535 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
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	H	-51.95	-54.30	10.33	-7.98	-25.00	-26.95
7605.00	H	-47.56	-49.62	11.99	-9.92	-25.00	-22.56
10140.00	H	-42.12	-43.44	12.93	-11.61	-25.00	-17.12
12675.00	H	---					
15210.00	H	---					
17745.00	H	---					
20280.00	H	---					
22815.00	H	---					
25350.00	H	---					

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.

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Operation Band	:LTE B7	Test Date	:2014-11-29
ARFCN	:CH 21375 16QAM BW 15 RB 1 0	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:2562.5 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
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	6.06	-2.45	-25.00	-44.49
771.08	S	-53.61	-56.57	5.86	-2.89	-25.00	-28.61
935.98	S	-64.04	-66.28	5.55	-3.32	-25.00	-39.04
5125.00	H	-51.59	-53.91	10.35	-8.03	-25.00	-26.59
7687.50	H	-47.88	-49.97	12.05	-9.97	-25.00	-22.88
10250.00	H	-39.12	-40.40	12.95	-11.68	-25.00	-14.12
12812.50	H	---					
15375.00	H	---					
17937.50	H	---					
20500.00	H	---					
23062.50	H	---					
25625.00	H	---					

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.

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Operation Band	:LTE B7	Test Date	:2014-11-29
ARFCN	:CH 21375 16QAM BW 15 RB 1 0	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:2562.5 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
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	H	-52.17	-54.50	10.35	-8.03	-25.00	-27.17
7687.50	H	-48.52	-50.60	12.05	-9.97	-25.00	-23.52
10250.00	H	-40.86	-42.13	12.95	-11.68	-25.00	-15.86
12812.50	H	---					
15375.00	H	---					
17937.50	H	---					
20500.00	H	---					
23062.50	H	---					
25625.00	H	---					

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.
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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

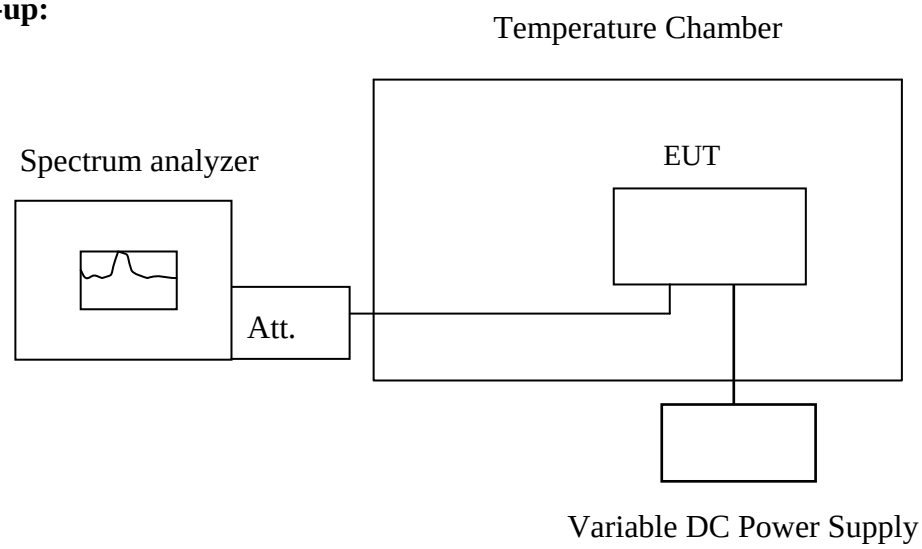
+/-2.5ppm for 1900MHz band

+/-2.5ppm for 1700MHz band

+/-2.5ppm for 700MHz band

+/-2.5ppm for 2500MHz band

11.2. Test Set-up:



Note: Measurement setup for testing on Antenna connector

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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

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11.5. Measurement Result:

Reference Frequency: GPRS 850 Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
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	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
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

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Reference Frequency: WCDMA II Mid Channel 1880				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
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				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
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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Reference Frequency: WCDMA V Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
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

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Reference Frequency:	LTE B2 Mid Channel	1880.0	MHz	1.4M QPSK CH 18900
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
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

Reference Frequency:	LTE B2 Mid Channel	1880.0	MHz	1.4M 16QAM CH 18900
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
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

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Reference Frequency:	LTE B2 Mid Channel	1880.0	MHz	3M QPSK CH 18900
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
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	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
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

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Reference Frequency:	LTE B2 Mid Channel	1880.0	MHz	5M QPSK CH 18900
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
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	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
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

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Reference 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)
Vdc	Temperature (℃)	(MHz)		
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

Reference Frequency:	LTE B2 Mid Channel	1880.0	MHz	10M 16QAM CH 18900
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
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

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Reference Frequency:	LTE B2 Mid Channel	1880.0	MHz	15M QPSK CH 18900
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
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

Reference Frequency:	LTE B2 Mid Channel	1880.0	MHz	15M 16QAM CH 18900
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
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

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Reference Frequency:	LTE B2 Mid Channel	1880.0	MHz	20M QPSK CH 18900
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
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

Reference Frequency:	LTE B2 Mid Channel	1880.0	MHz	20M 16QAM CH 18900
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
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

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Reference 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 (°C)	(MHz)		
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 (Hz)
Vdc	Temperature (°C)	(MHz)		
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

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Reference Frequency:	LTE B4 Mid Channel	1732.5	MHz	3M QPSK CH 20175
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
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

Reference Frequency:	LTE B4 Mid Channel	1732.5	MHz	3M 16QAM CH 20175
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
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

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Reference Frequency:	LTE B4 Mid Channel	1732.5	MHz	5M QPSK CH 20175
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
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:	LTE B4 Mid Channel	1732.5	MHz	5M 16QAM CH 20175
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
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

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Reference Frequency:	LTE B4 Mid Channel	1732.5	MHz	10M QPSK CH 20175
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
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

Reference Frequency:	LTE B4 Mid Channel	1732.5	MHz	10M 16QAM CH 20175
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
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

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Reference Frequency:	LTE B4 Mid Channel	1732.5	MHz	15M QPSK CH 20175
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
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

Reference Frequency:	LTE B4 Mid Channel	1732.5	MHz	15M 16QAM CH 20175
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
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

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Reference Frequency:	LTE B4 Mid Channel	1732.5	MHz	20M QPSK CH 20175
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
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

Reference Frequency:	LTE B4 Mid Channel	1732.5	MHz	20M 16QAM CH 20175
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
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

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Reference Frequency:	LTE B5 Mid Channel	836.5	MHz	1.4M QPSK CH 20525
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
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

Reference Frequency:	LTE B5 Mid Channel	836.5	MHz	1.4M 16QAM CH 20525
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
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

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Reference Frequency:	LTE B5 Mid Channel	836.5	MHz	3M QPSK CH 20525
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
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

Reference Frequency:	LTE B5 Mid Channel	836.5	MHz	3M 16QAM CH 20525
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
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

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Reference Frequency:	LTE B5 Mid Channel	836.5	MHz	5M QPSK CH 20525
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
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

Reference Frequency:	LTE B5 Mid Channel	836.5	MHz	5M 16QAM CH 20525
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
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

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Reference Frequency:	LTE B5 Mid Channel	836.5	MHz	10M QPSK CH 20525
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
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

Reference Frequency:	LTE B5 Mid Channel	836.5	MHz	10M 16QAM CH 20525
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
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

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Reference Frequency:	LTE B7 Mid Channel	2535.0	MHz	5M QPSK CH 21100
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
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

Reference Frequency:	LTE B7 Mid Channel	2535.0	MHz	5M 16QAM CH 21100
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
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

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Reference Frequency:	LTE B7 Mid Channel	2535.0	MHz	10M QPSK CH 21100
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
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

Reference Frequency:	LTE B7 Mid Channel	2535.0	MHz	10M 16QAM CH 21100
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
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

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Reference Frequency:	LTE B7 Mid Channel	2535.0	MHz	15M QPSK CH 21100
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
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

Reference Frequency:	LTE B7 Mid Channel	2535.0	MHz	15M 16QAM CH 21100
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
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

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Reference Frequency:	LTE B7 Mid Channel	2535.0	MHz	20M QPSK CH 21100
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
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 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
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.

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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

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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	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
4.35	25	836.599991	6	2091
3.8	25	836.599985	0	2091
3.4	25	836.599975	-10	2091
2.9 (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	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
4.35	25	1879.999984	-5	4700
3.8	25	1879.999989	0	4700
3.4	25	1879.999988	-1	4700
2.9 (End point)	25	1879.999945	-44	4700

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WCDMA II

Reference Frequency: WCDMA II Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.35	25	1880.000009	6	4700
3.8	25	1880.000003	0	4700
3.4	25	1879.999988	-15	4700
2.9 (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	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.35	25	1732.59990	9	4331
3.8	25	1732.59981	0	4331
3.4	25	1732.59987	6	4331
2.9 (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	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.35	25	836.600011	5	2091
3.8	25	836.600006	0	2091
3.4	25	836.599988	-18	2091
2.9 (End point)	25	836.599952	-54	2091

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Reference Frequency:	LTE B2 Mid Channel	1880.0	MHz	1.4M QPSK CH 18900
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
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 Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
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

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Reference Frequency:	LTE B2 Mid Channel	1880.0	MHz	3M QPSK CH 18900
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
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 Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
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

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Reference Frequency:	LTE B2 Mid Channel	1880.0	MHz	5M QPSK CH 18900
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
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 Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
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

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Reference 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)
Vdc	Temperature (°C)	(MHz)		
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 Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
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

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Reference Frequency:	LTE B2 Mid Channel	1880.0	MHz	15M QPSK CH 18900
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
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 Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
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 Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
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 Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
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

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Reference 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 (°C)	(MHz)		
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 Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
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

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Reference Frequency:	LTE B4 Mid Channel	1732.5	MHz	3M QPSK CH 20175
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
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 Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
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

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Reference Frequency:	LTE B4 Mid Channel	1732.5	MHz	5M QPSK CH 20175
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
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 Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
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

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Reference Frequency:	LTE B4 Mid Channel	1732.5	MHz	10M QPSK CH 20175
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
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 Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
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

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Reference Frequency:	LTE B4 Mid Channel	1732.5	MHz	15M QPSK CH 20175
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
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 Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
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

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Reference Frequency:	LTE B4 Mid Channel	1732.5	MHz	20M QPSK CH 20175
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
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 Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
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

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Reference Frequency:	LTE B5 Mid Channel	836.5	MHz	1.4M QPSK CH 20525
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
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 Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
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

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Reference Frequency:	LTE B5 Mid Channel	836.5	MHz	3M QPSK CH 20525
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
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 Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
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

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Reference Frequency:	LTE B5 Mid Channel	836.5	MHz	5M QPSK CH 20525
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
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 Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
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

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Reference Frequency:	LTE B5 Mid Channel	836.5	MHz 10M QPSK CH 20525	
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
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 Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
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

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Reference Frequency:	LTE B7 Mid Channel	2535.0	MHz	5M QPSK CH 21100
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
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 Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
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

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Reference Frequency:	LTE B7 Mid Channel	2535.0	MHz	10M QPSK CH 21100
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
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 Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
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

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Reference Frequency:	LTE B7 Mid Channel	2535.0	MHz	15M QPSK CH 21100
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
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 Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
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

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Reference Frequency:	LTE B7 Mid Channel	2535.0	MHz	20M QPSK CH 21100
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
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 Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
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

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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 ≥ 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					
TEST CONDITIONS	Channel 128(L)		Channel 190(M)		Channel 251(H)	
	824.2MHz		836.6MHz		848.8MHz	
	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					
TEST CONDITIONS	Channel 512(L)		Channel 661(M)		Channel 810(H)	
	1850.2MHz		1880.0MHz		1909.8MHz	
	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					
TEST CONDITIONS	Channel 9262(L)		Channel 9400(M)		Channel 9538(H)	
	1852.4MHz		1880.0MHz		1907.6MHz	
	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					
TEST CONDITIONS	Channel 1312(L)		Channel 1413(M)		Channel 1513(H)	
	1712.4MHz		1732.6MHz		1752.6MHz	
	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					
TEST CONDITIONS	Channel 4132(L)		Channel 4183(M)		Channel 4233(H)	
	826.4MHz		836.6MHz		846.6MHz	
	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

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	Peak-to-Average Ratio					
TEST CONDITIONS	Channel 18607(L)		Channel 18900(M)		Channel 19193(H)	
	1850.7MHz		1880.0MHz		1909.3MHz	
	dB		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					
TEST CONDITIONS	Channel 18615(L)		Channel 18900(M)		Channel 19185(H)	
	1851.5MHz		1880.0MHz		1908.5MHz	
	dB		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					
TEST CONDITIONS	Channel 19975(L)		Channel 20175(M)		Channel 20375(H)	
	1852.5MHz		1880.0MHz		1907.5 MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 2/BW:5M	5.94	13	6.00	13	5.77	13

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	Peak-to-Average Ratio					
TEST CONDITIONS	Channel 20000 (L)		Channel 20175(M)		Channel 20350 (H)	
	1855.0 MHz		1880.0 MHz		1905.0 MHz	
	dB		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					
TEST CONDITIONS	Channel 20025(L)		Channel 20175(M)		Channel 20325(H)	
	1857.5 MHz		1880.0 MHz		1902.5 MHz	
	dB		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					
TEST CONDITIONS	Channel 20050(L)		Channel 20175(M)		Channel 20300(H)	
	1860.0 MHz		1880.0 MHz		1900.0 MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 2/BW:20M	6.96	13	7.01	13	6.98	13

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	Peak-to-Average Ratio					
TEST CONDITIONS	Channel 19957(L)		Channel 20175(M)		Channel 20393(H)	
	1710.7MHz		1732.5MHz		1754.3MHz	
	dB		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					
TEST CONDITIONS	Channel 19965(L)		Channel 20175(M)		Channel 20385(H)	
	1711.5MHz		1732.5MHz		1753.5MHz	
	dB		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					
TEST CONDITIONS	Channel 19975(L)		Channel 20175(M)		Channel 20375(H)	
	1712.5MHz		1732.5MHz		1752.5MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 4/BW:5M	6.15	13	6.24	13	6.11	13

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	Peak-to-Average Ratio					
TEST CONDITIONS	Channel 20000 (L)		Channel 20175(M)		Channel 20350 (H)	
	1715.0MHz		1732.5MHz		1750MHz	
	dB		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					
TEST CONDITIONS	Channel 20025(L)		Channel 20175(M)		Channel 20325(H)	
	1717.5MHz		1732.5MHz		1747.5MHz	
	dB		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					
TEST CONDITIONS	Channel 20050(L)		Channel 20175(M)		Channel 20300(H)	
	1720.0MHz		1732.5MHz		1745.0MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 4/BW:20M	7.04	13	7.21	13	7.14	13

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	Peak-to-Average Ratio					
TEST CONDITIONS	Channel 20407(L)		Channel 20525(M)		Channel 20643(H)	
	TEST		824.7MHz		836.5MHz	
	dB		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					
TEST CONDITIONS	Channel 20415 (L)		Channel 20525 (M)		Channel 20635 (H)	
	825.5MHz		836.5MHz		847.5MHz	
	dB		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					
TEST CONDITIONS	Channel 20425(L)		Channel 20525(M)		Channel 20625(H)	
	826.5MHz		836.5MHz		846.5MHz	
	dB		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					
TEST CONDITIONS	Channel 20450 (L)		Channel 20525(M)		Channel 20600 (H)	
	829.0MHz		836.5MHz		844.0MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 5/BW:10M	6.41	13	6.60	13	6.61	13

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	Peak-to-Average Ratio					
TEST CONDITIONS	Channel 20775(L)		Channel 21100(M)		Channel 21425(H)	
	2502.5MHz		2535.0MHz		2567.5MHz	
	dB		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					
TEST CONDITIONS	Channel 20800 (L)		Channel 21100(M)		Channel 21375 (H)	
	2505.0MHz		2535.0MHz		2565.0MHz	
	dB		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					
TEST CONDITIONS	Channel 20825(L)		Channel 21100(M)		Channel 21375(H)	
	2507.5MHz		2535.0MHz		2562.5MHz	
	dB		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					
TEST CONDITIONS	Channel 20850 (L)		Channel 21100(M)		Channel 21350 (H)	
	2510.0MHz		2535.0MHz		2560.0MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 7/BW:20M	7.07	13	7.08	13	6.99	13

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13.5.2 Measurement Results:

Figure 13-1: GSM 850 Channel Low

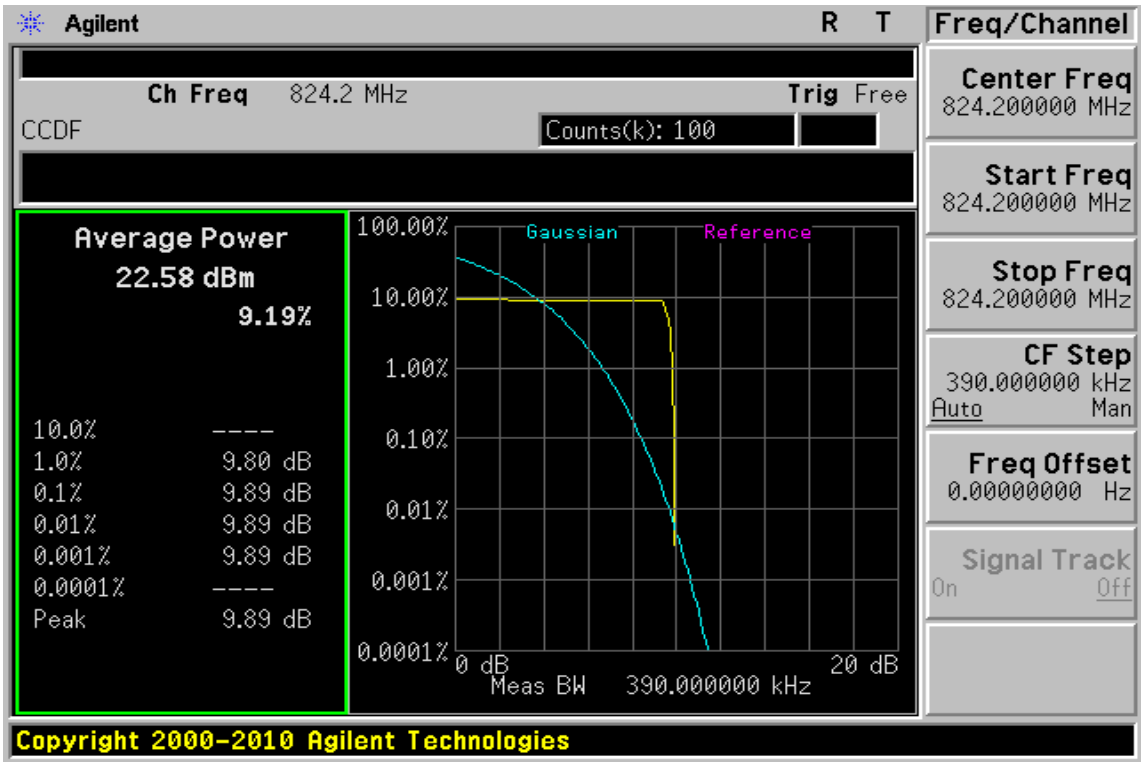
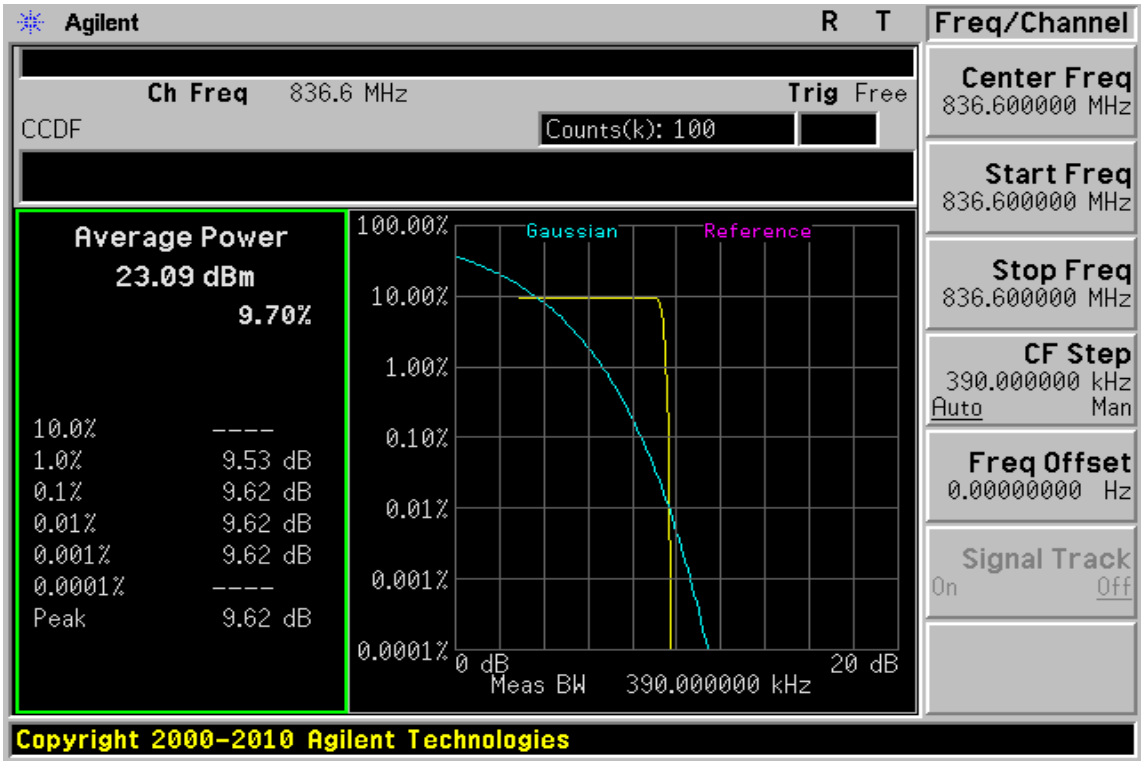


Figure 13-2: GSM 850 Channel Mid



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Figure 13-3: GSM 850 Channel High

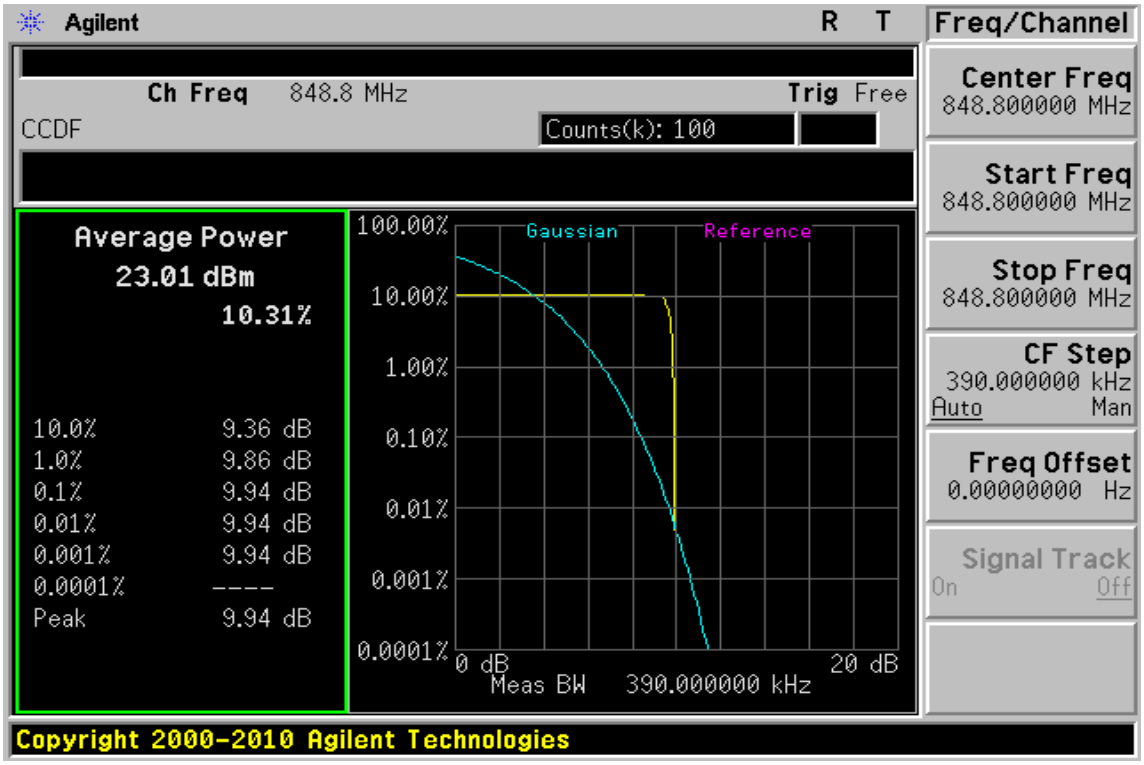
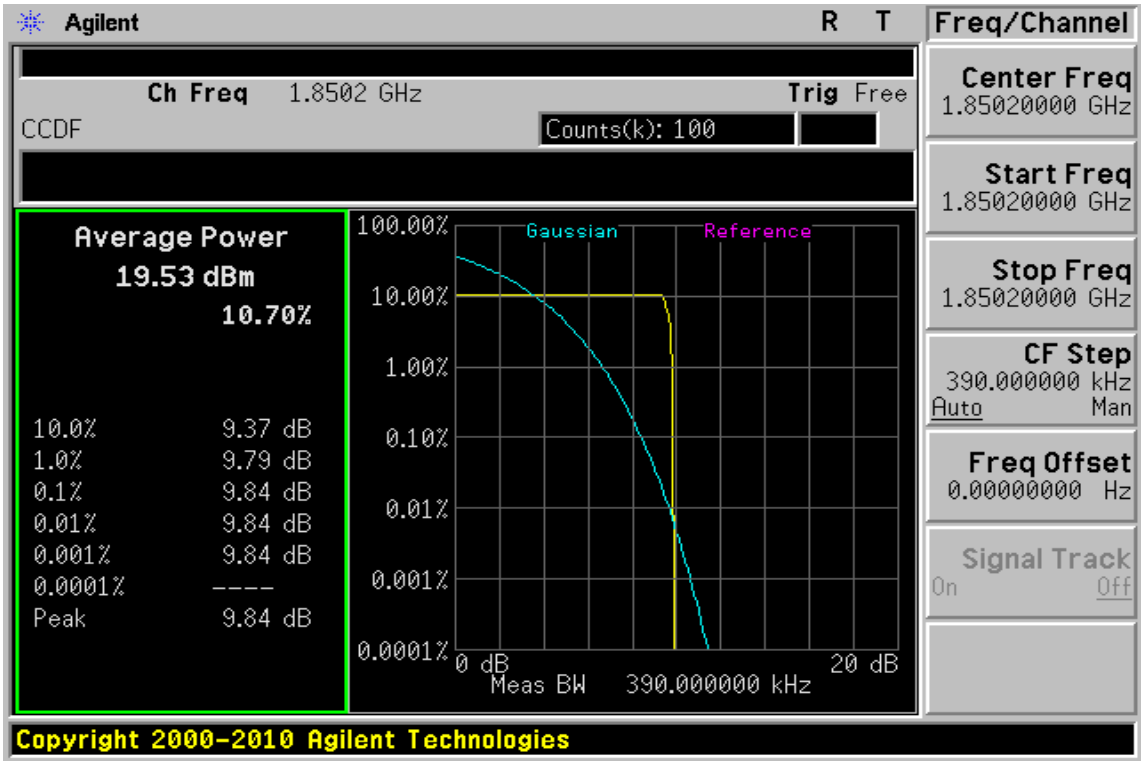


Figure 13-4: GSM 1900 Channel Low



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Figure 13-5: GSM 1900 Channel Mid

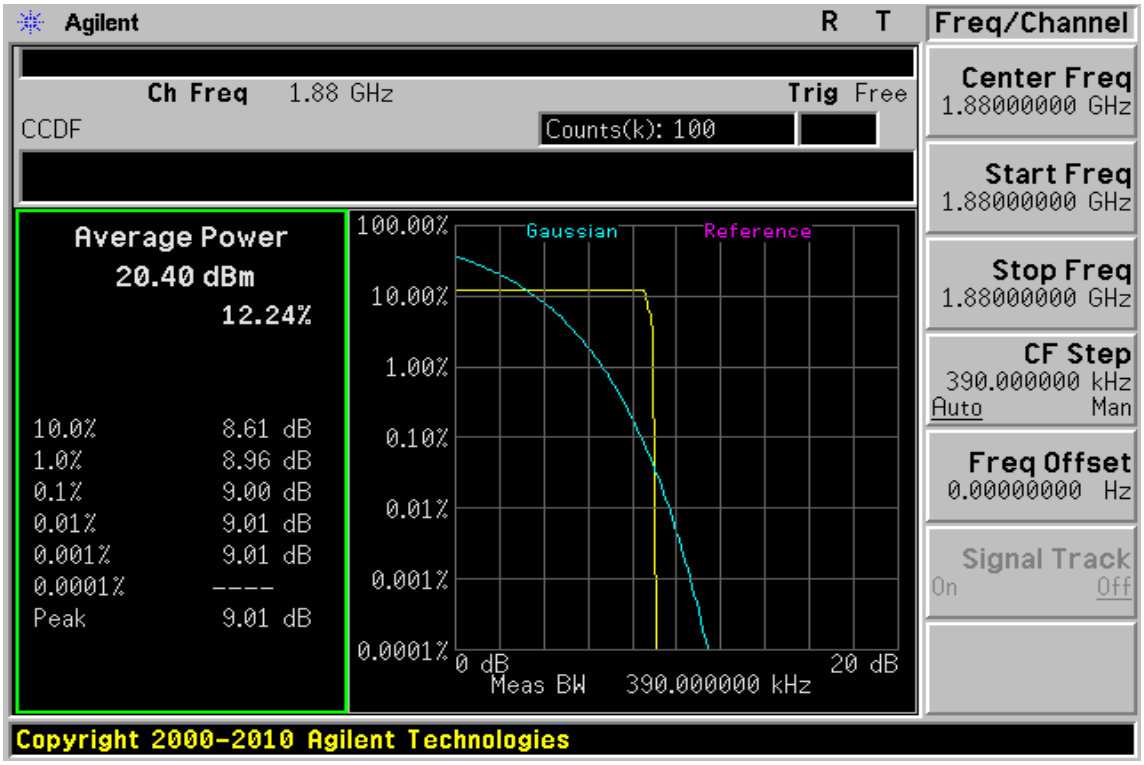
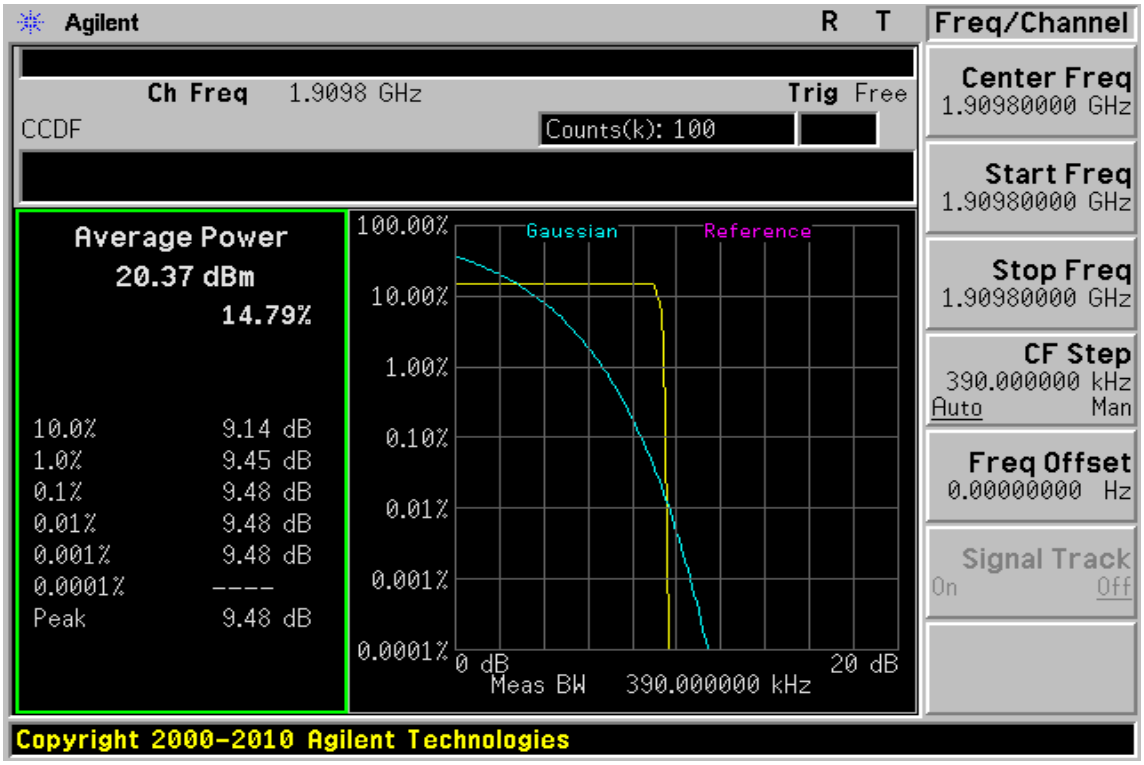


Figure 13-6: GSM 1900 Channel High



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Figure 13-7: GPRS 850 Channel Low

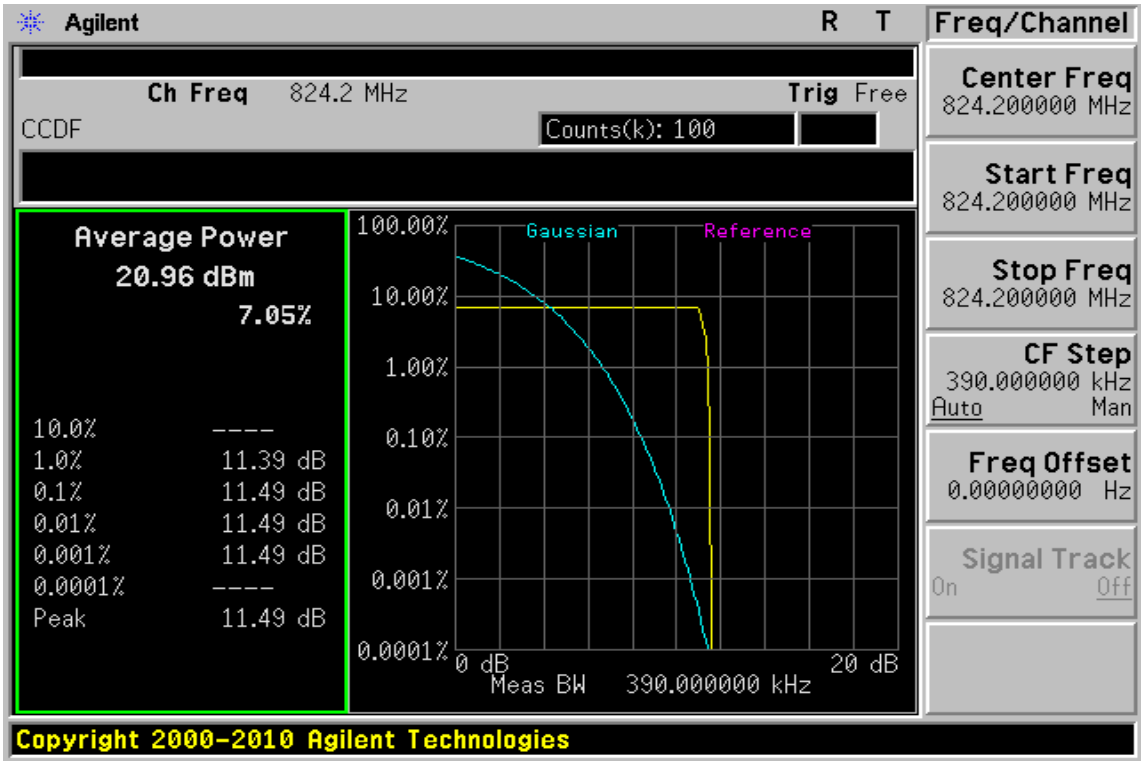
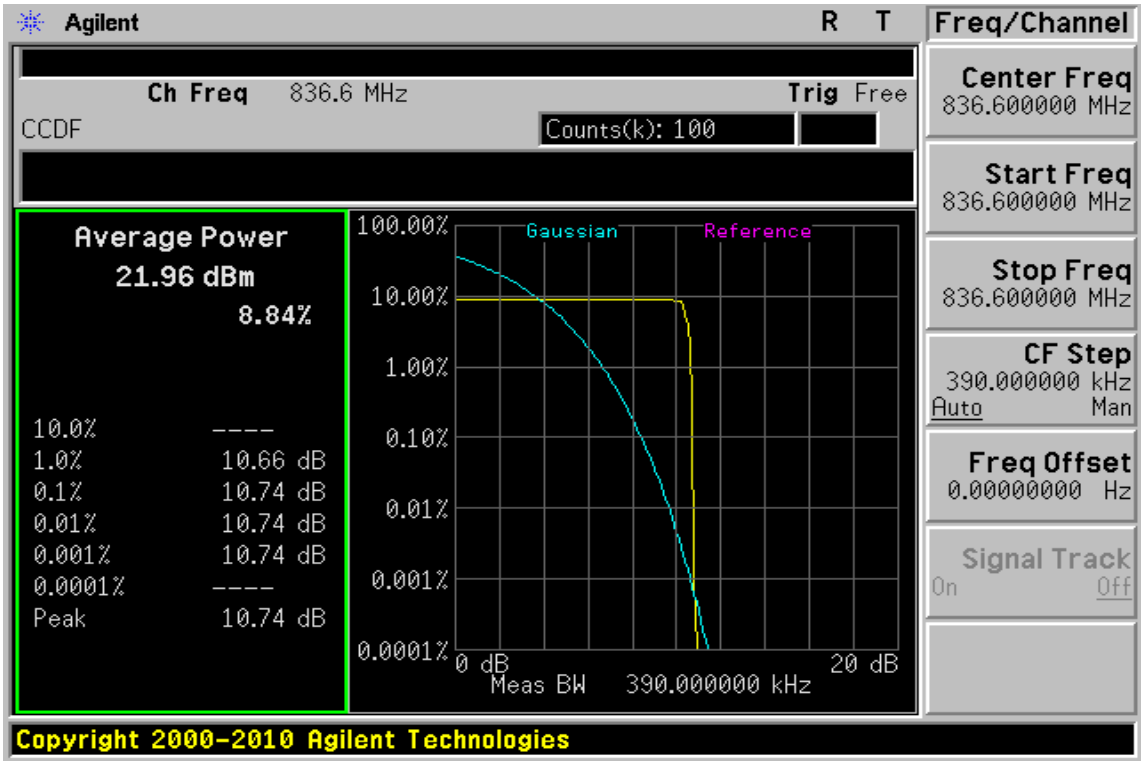


Figure 13-8: GPRS 850 Channel Mid



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Figure 13-9: GPRS 850 Channel High

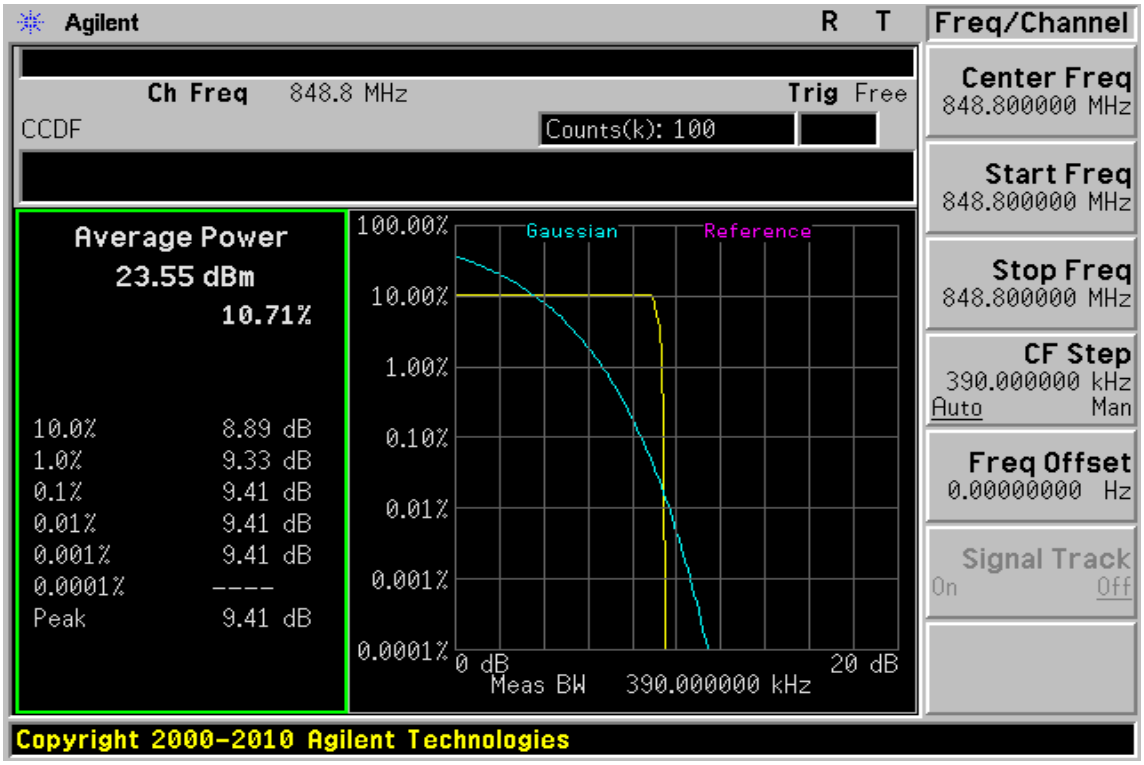
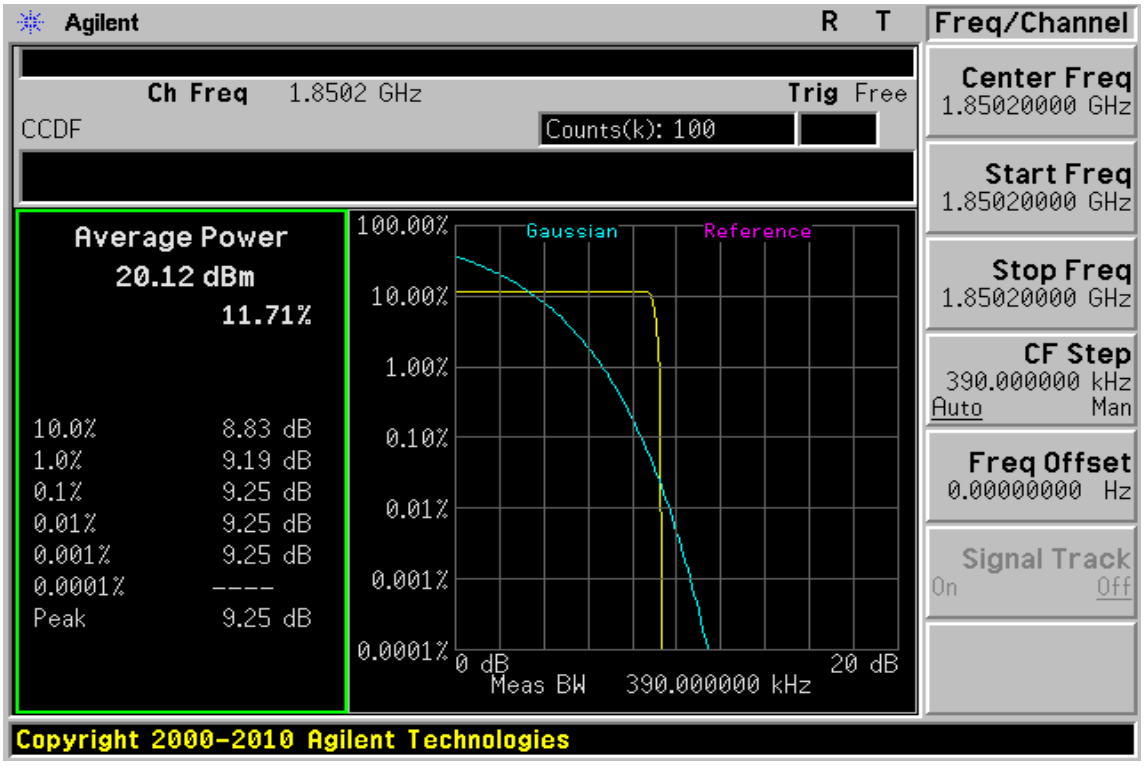


Figure 13-10: GPRS 1900 Channel Low



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Figure 13-11 GPRS 1900 Channel Mid

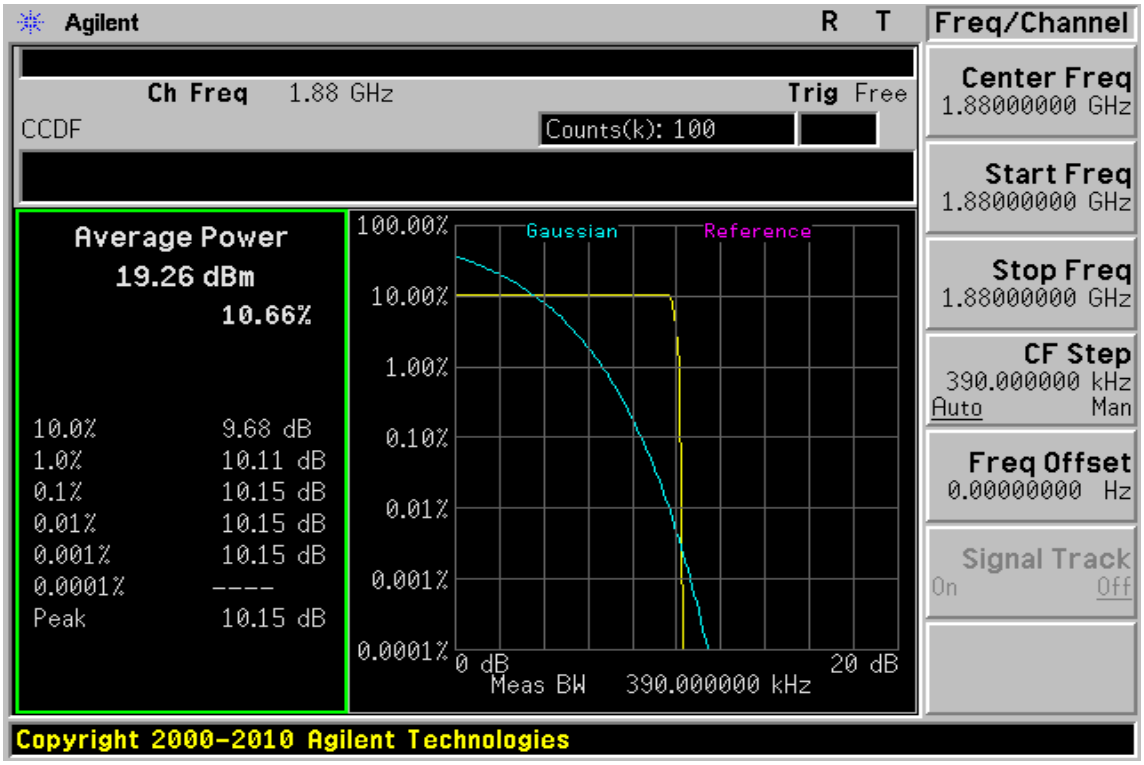
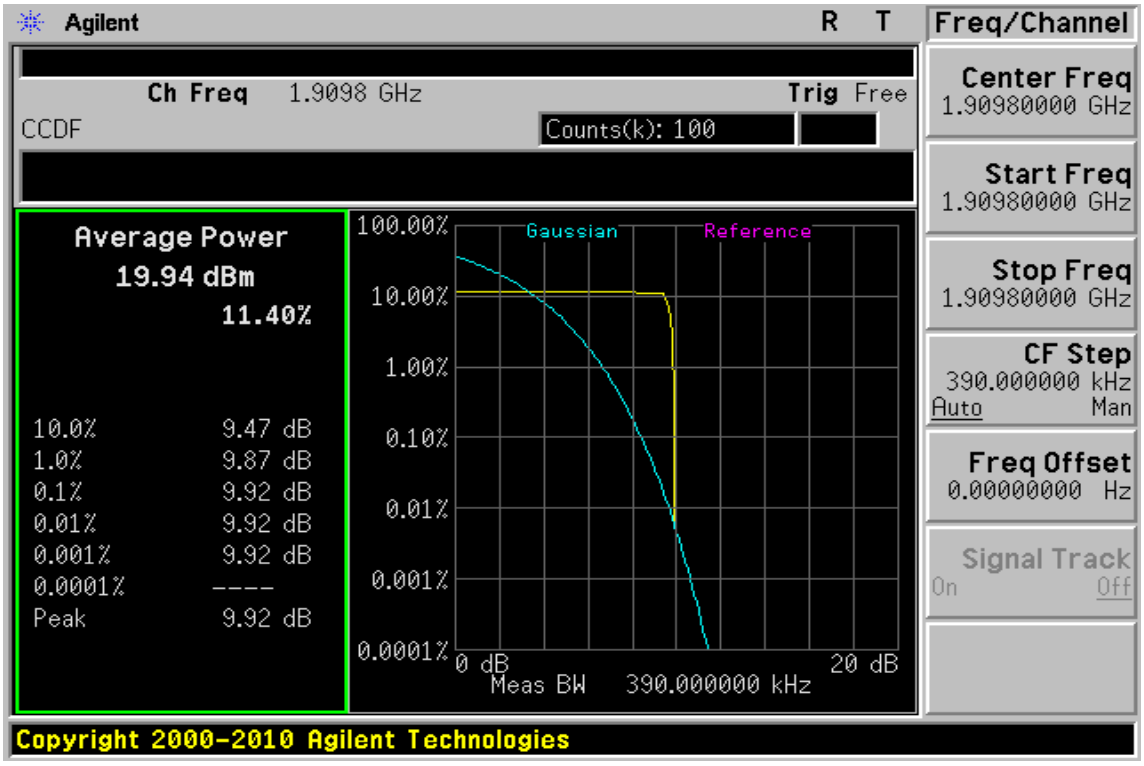


Figure 13-12: GPRS 1900 Channel High



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Figure 13-13: EDGE 850 Channel Low

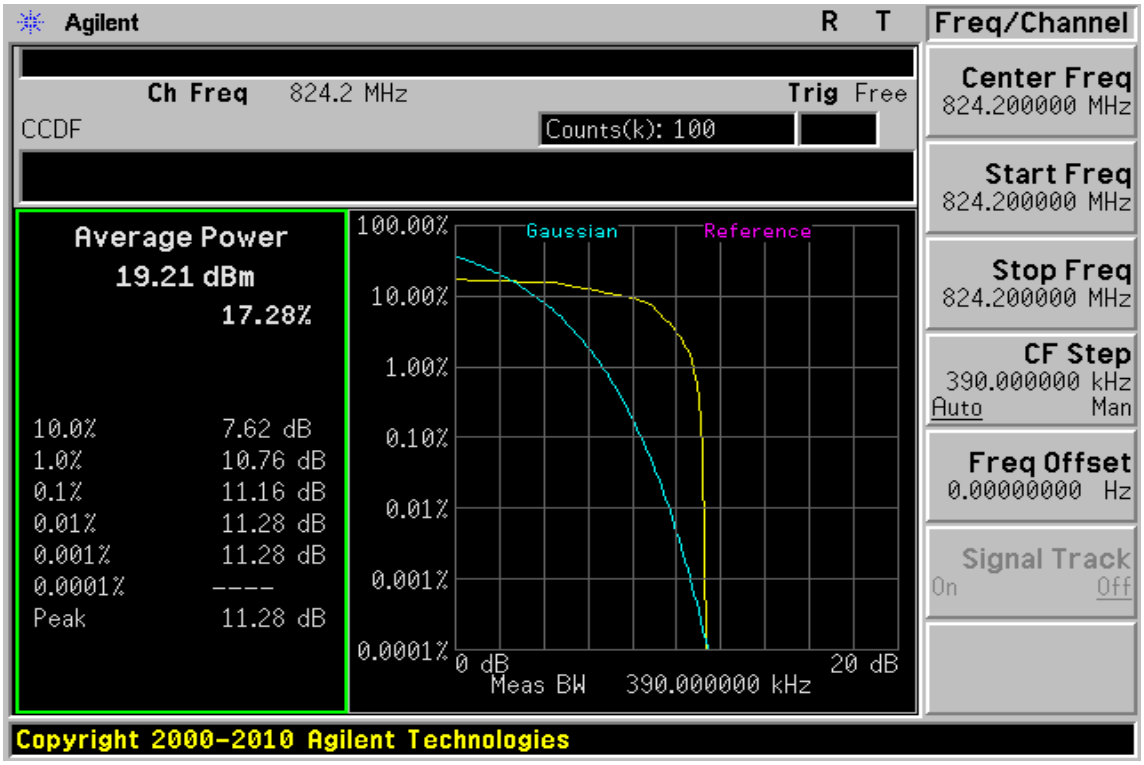
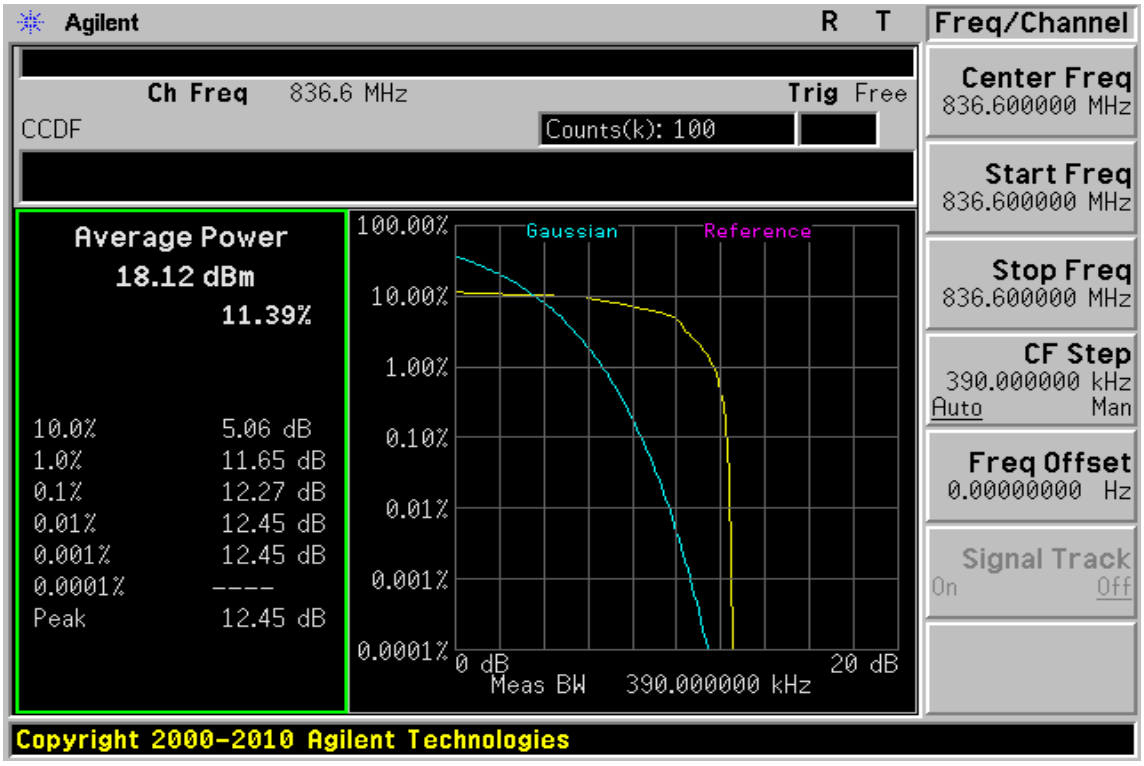


Figure 13-14 EDGE 850 Channel Mid



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Figure 13-15: EDGE 850 Channel High

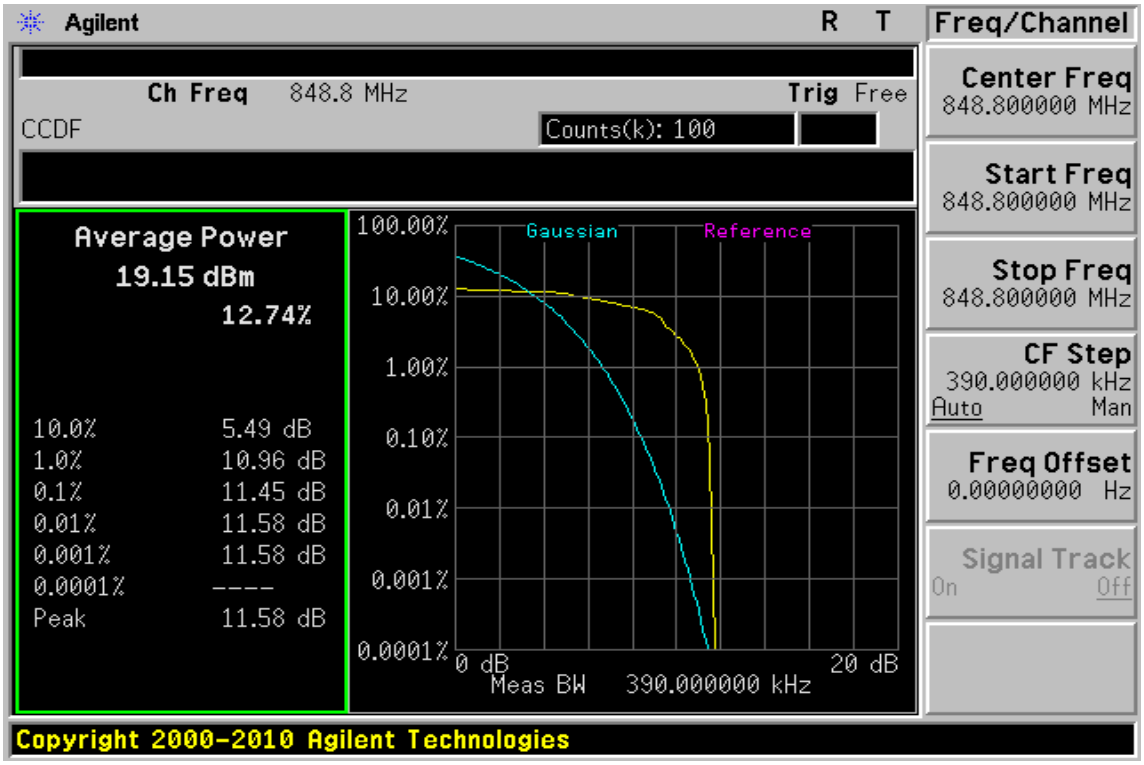
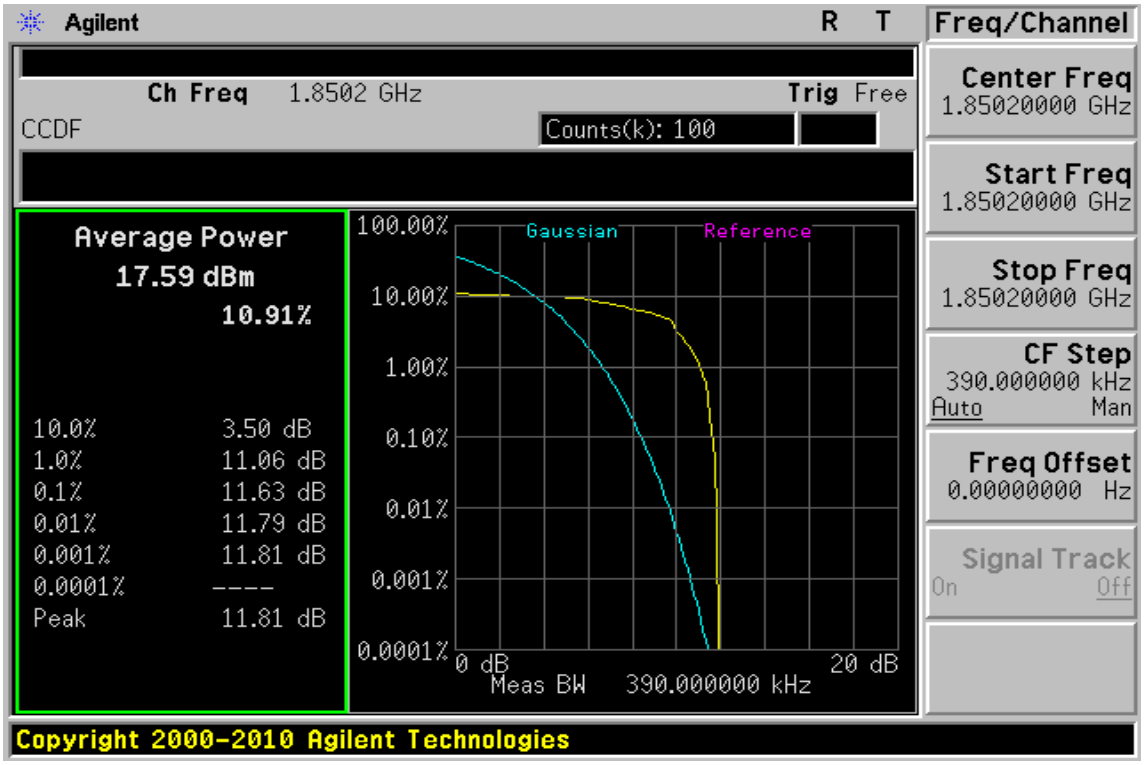


Figure 13-16: EDGE 1900 Channel Low



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Figure 13-17 EDGE 1900 Channel Mid

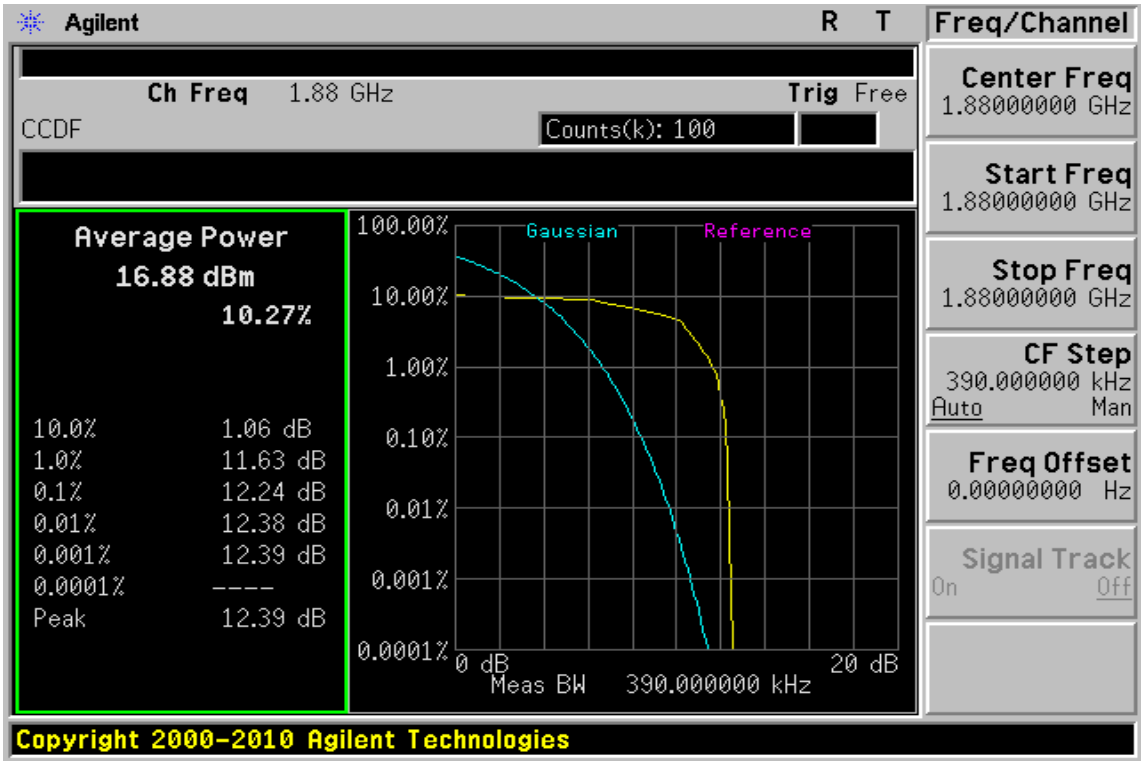
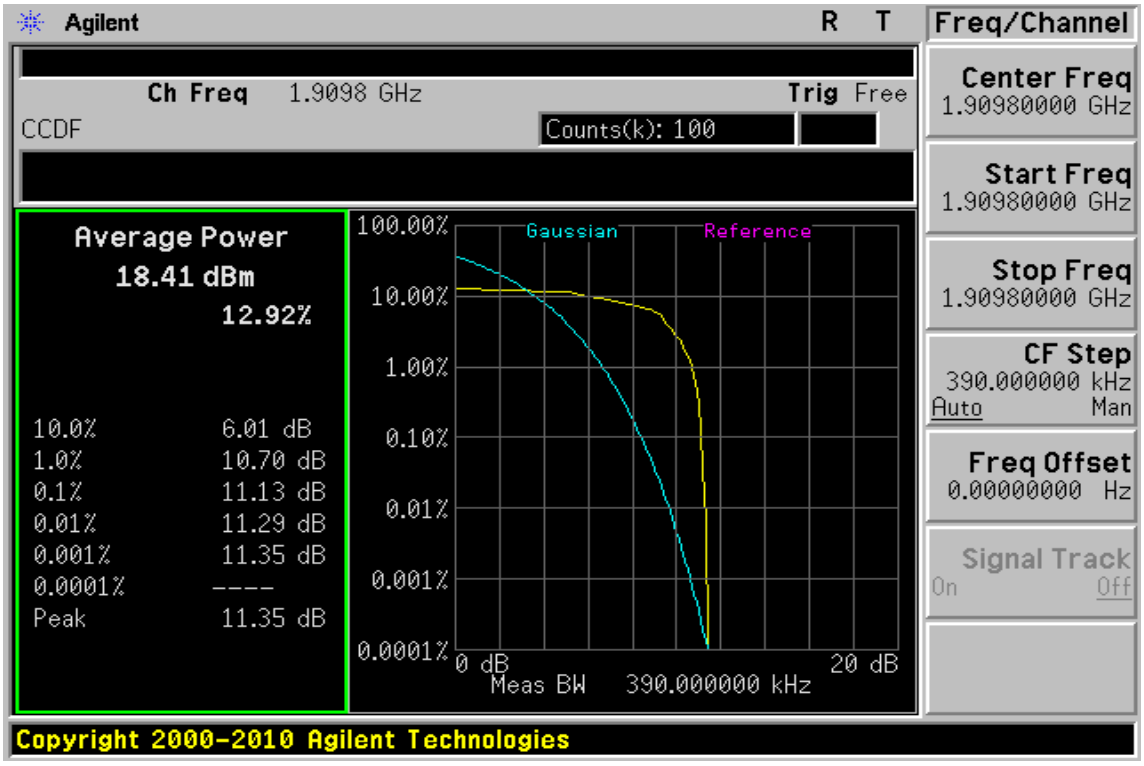


Figure 13-18: EDGE 1900 Channel High



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Figure 13-19: WCDMA Band II Channel Low

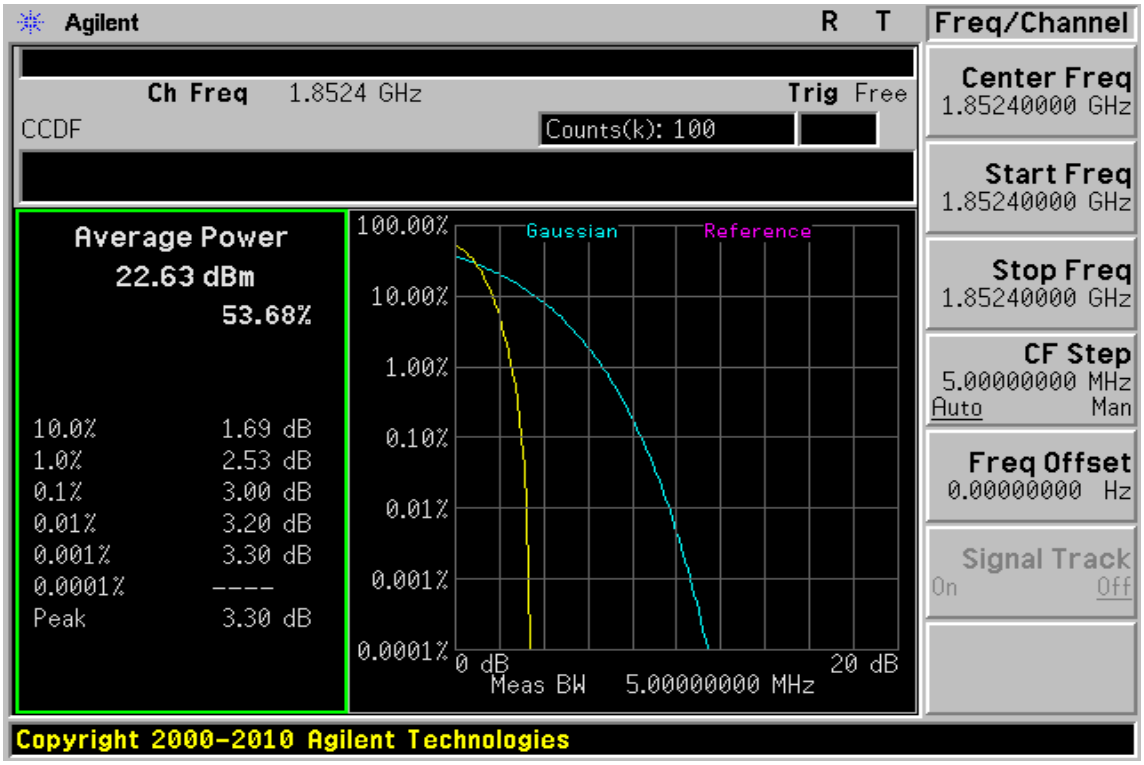
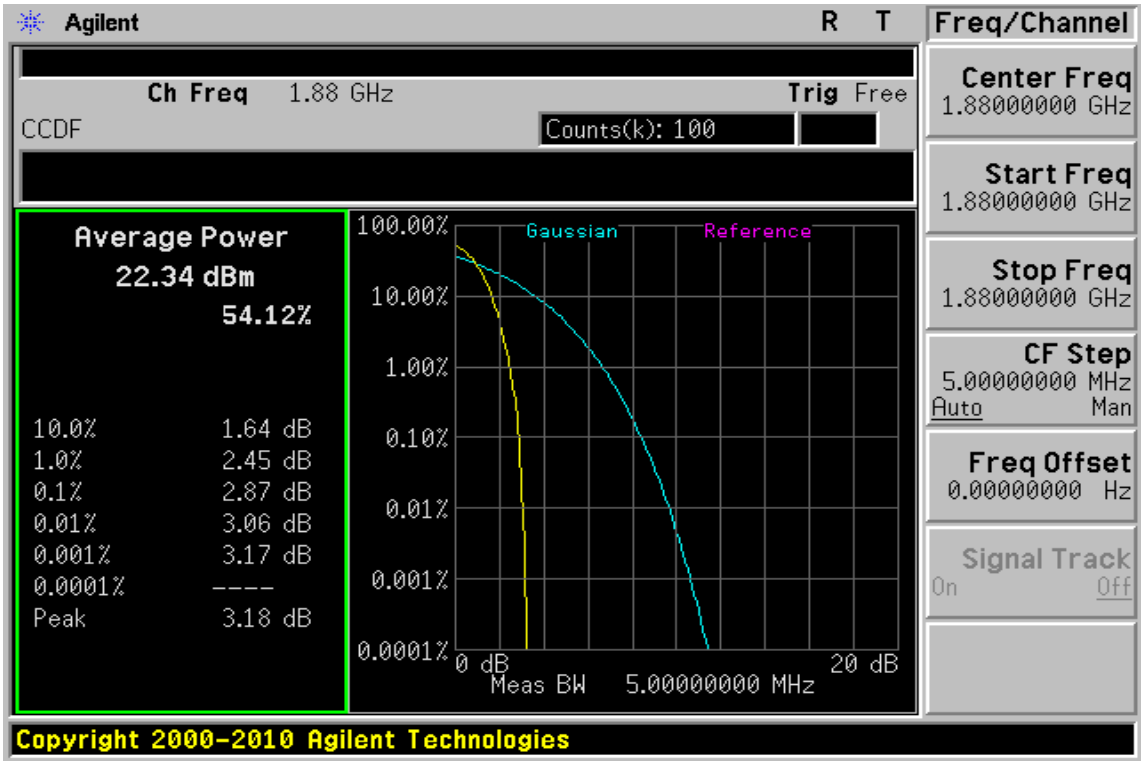


Figure 13-20: WCDMA Band II Channel Mid



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Figure 13-21: WCDMA Band II Channel High

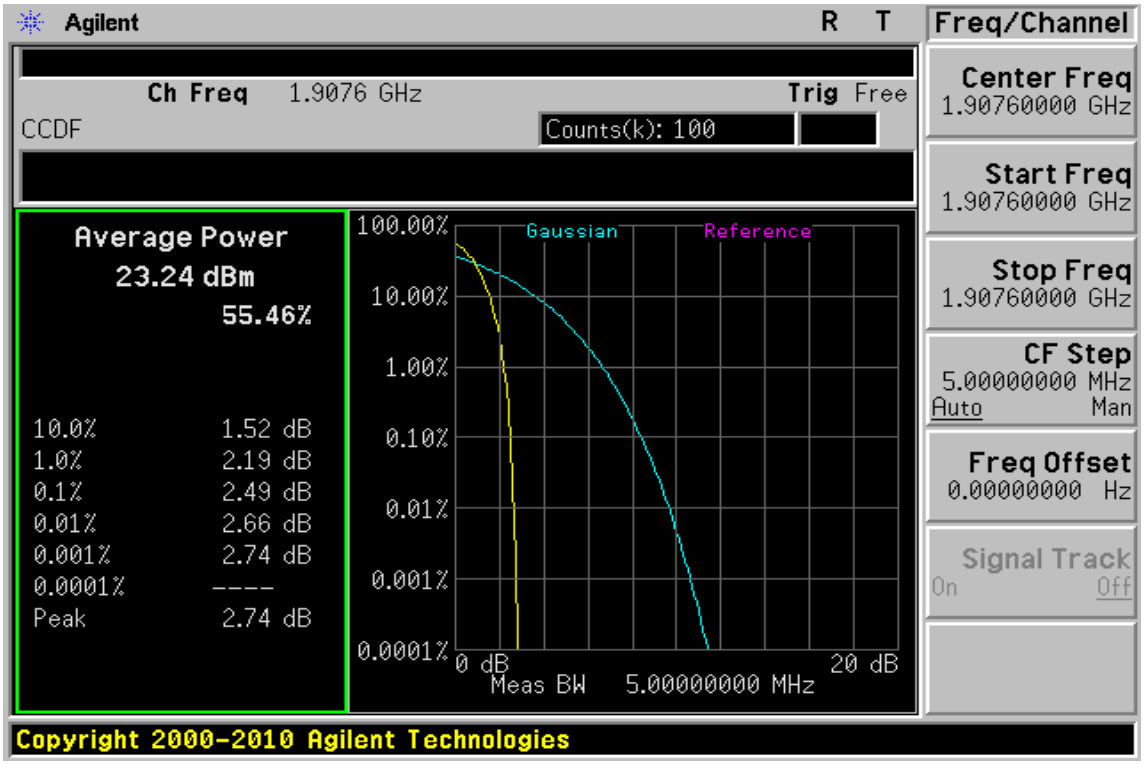
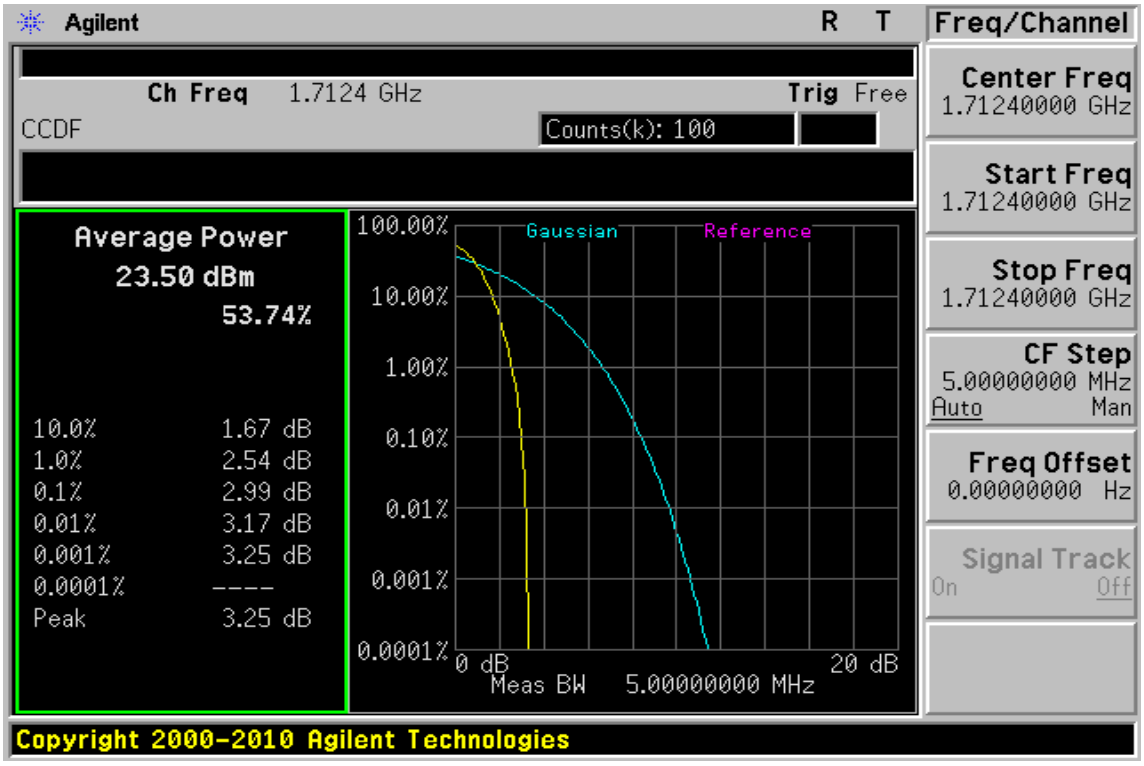


Figure 13-22: WCDMA Band IV Channel Low



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Figure 13-23: WCDMA Band IV Channel Mid

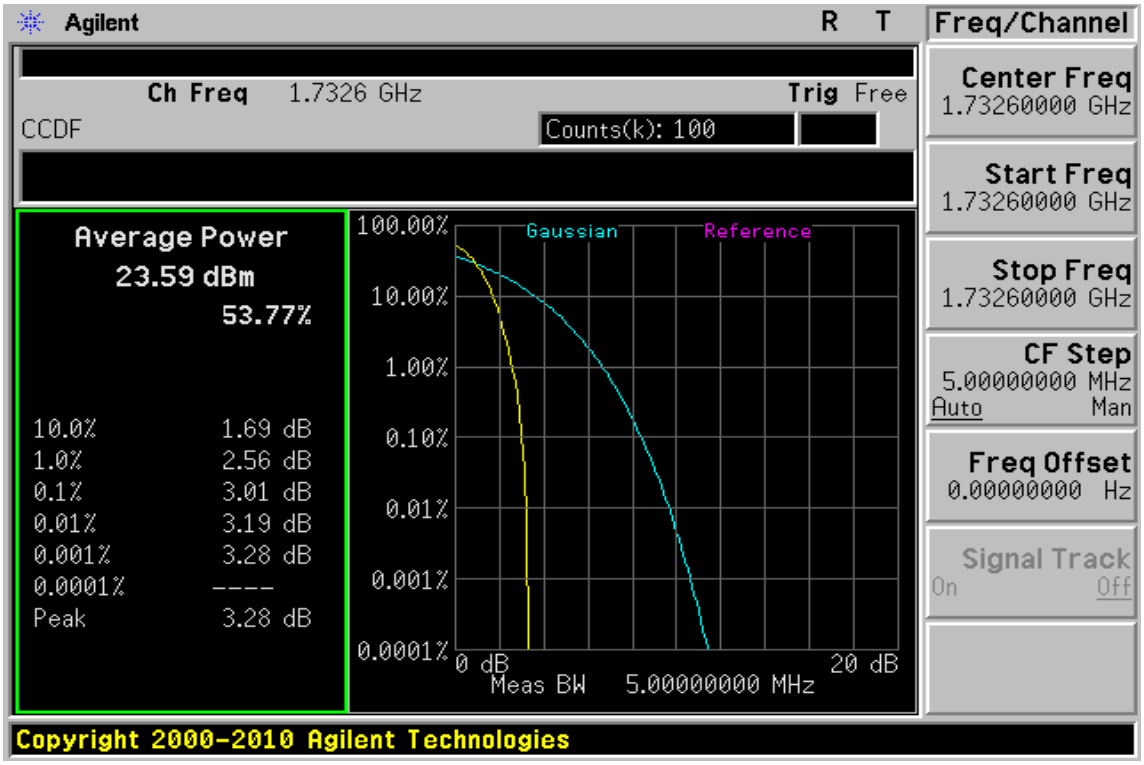
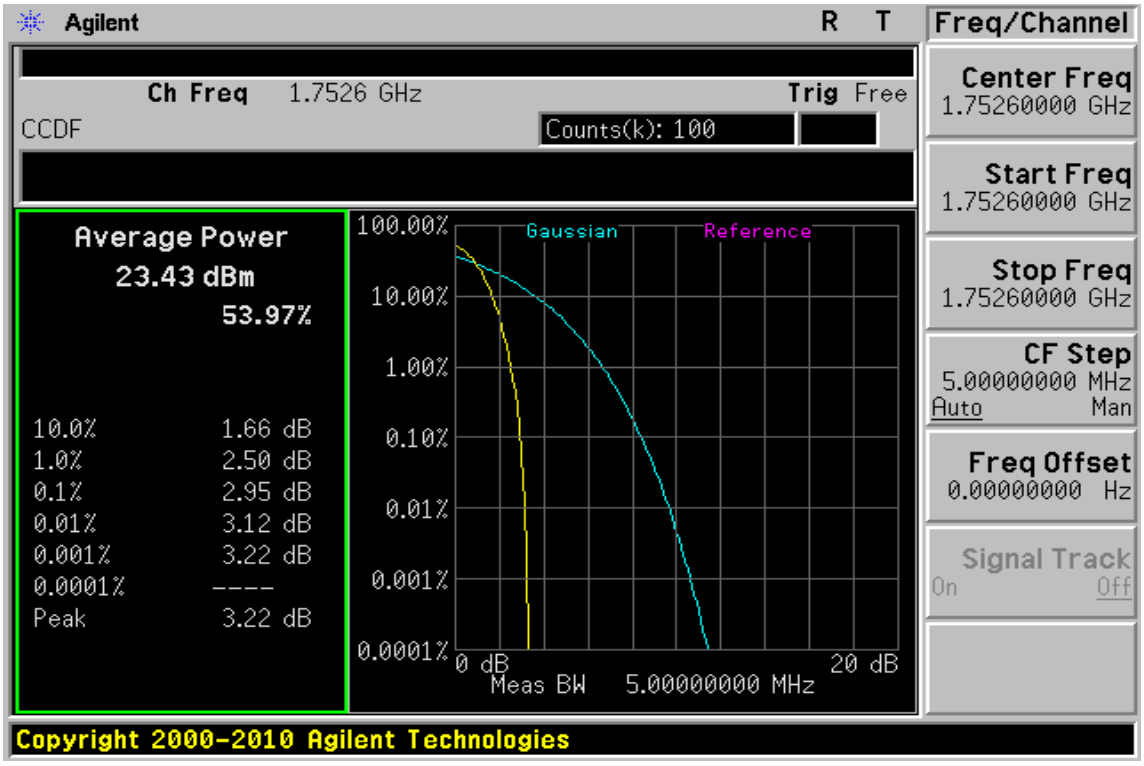


Figure 13-24: WCDMA Band IV Channel High



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Figure 13-25: WCDMA Band V Channel Low

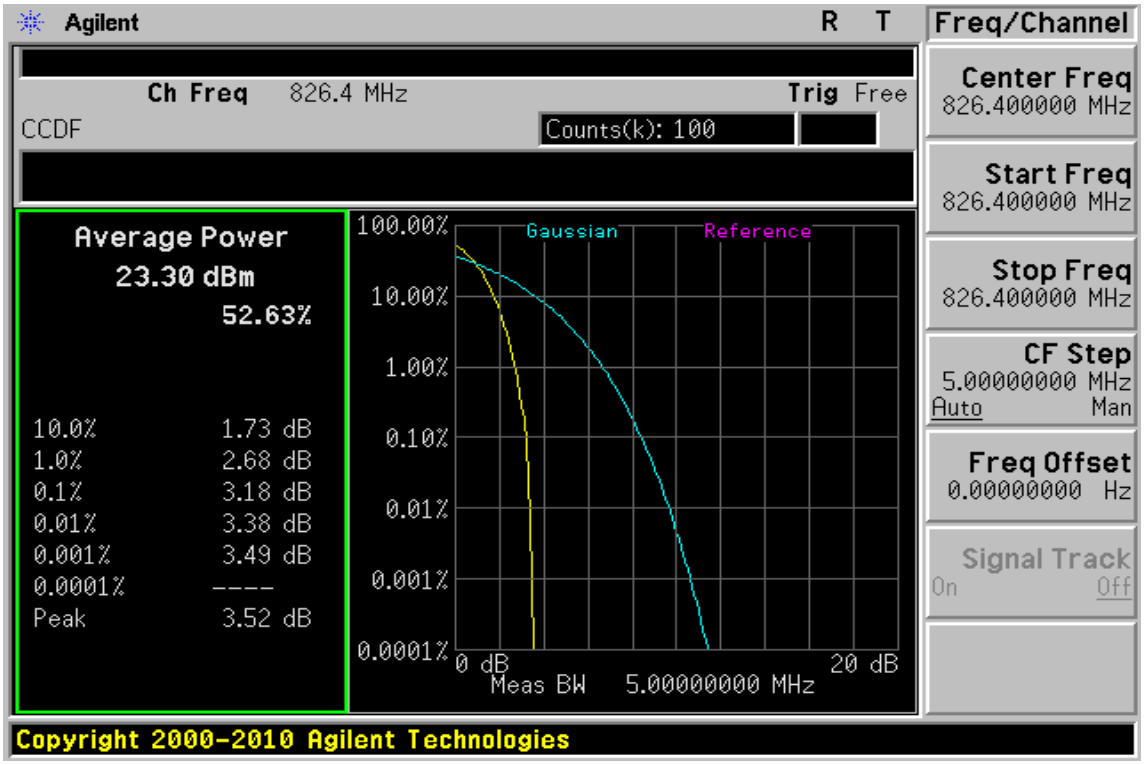
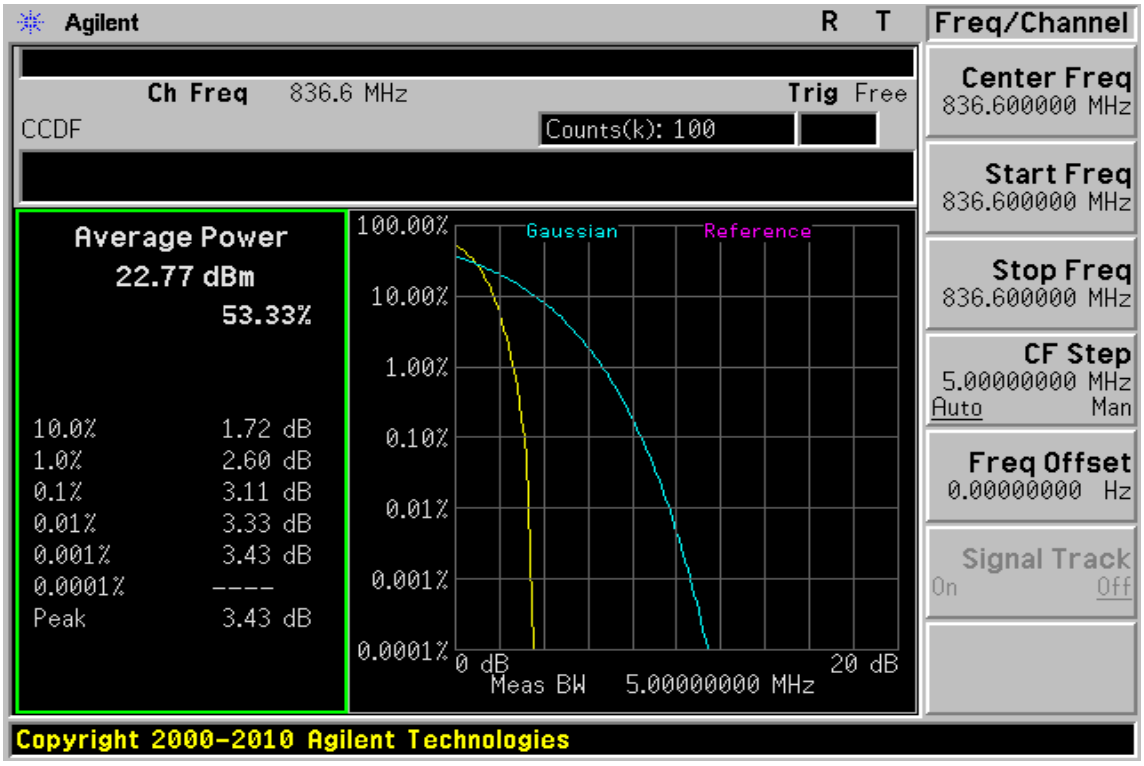


Figure 13-26: WCDMA Band V Channel Mid



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Figure 13-27: WCDMA Band V Channel High

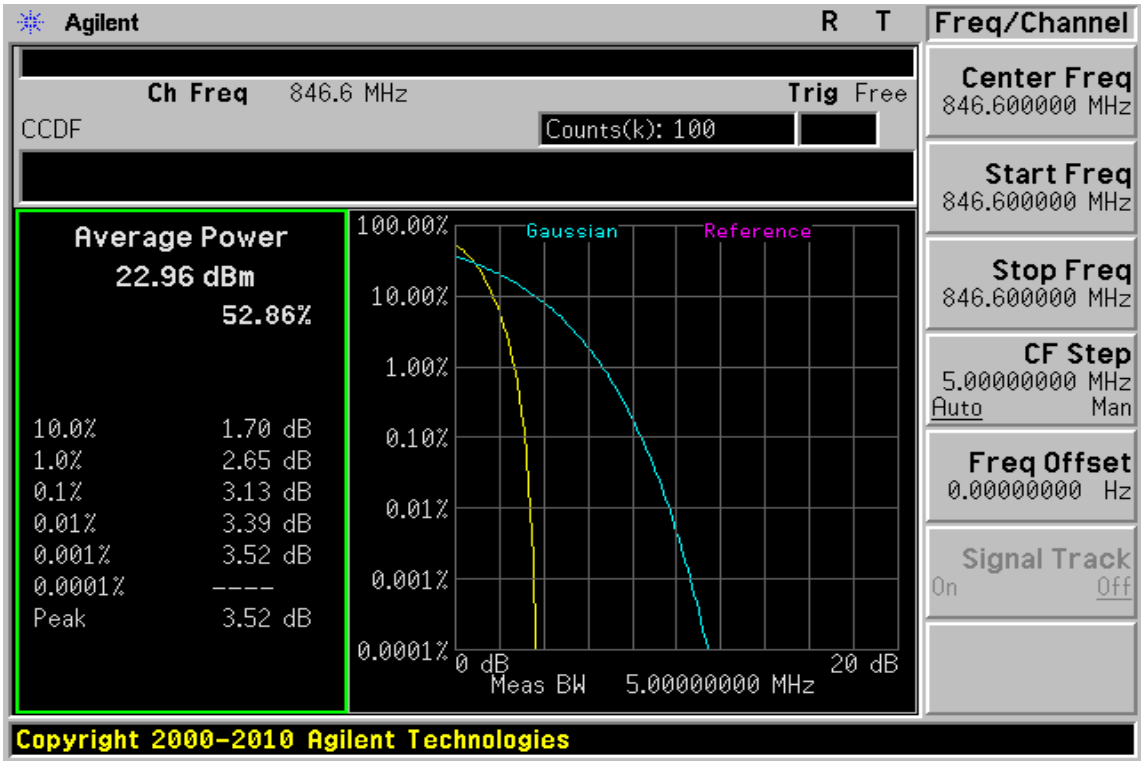
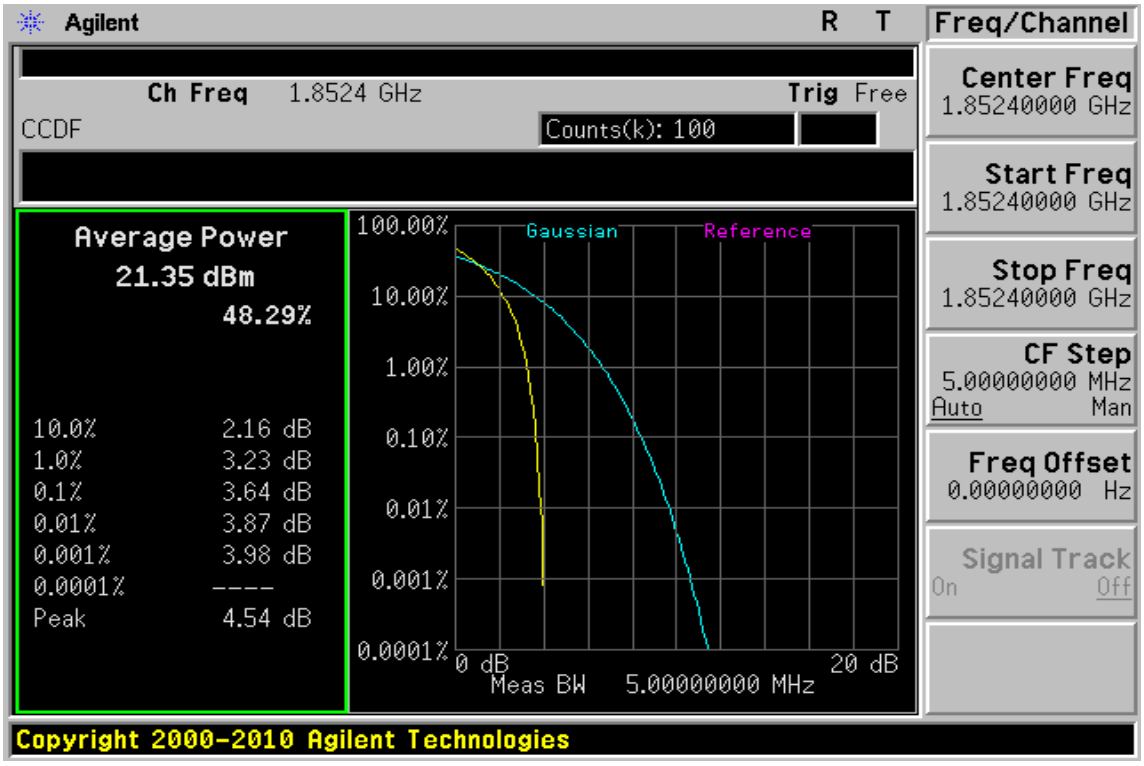


Figure 13-28: HSDPA Band II Channel Low



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Figure 13-29: HSDPA Band II Channel Mid

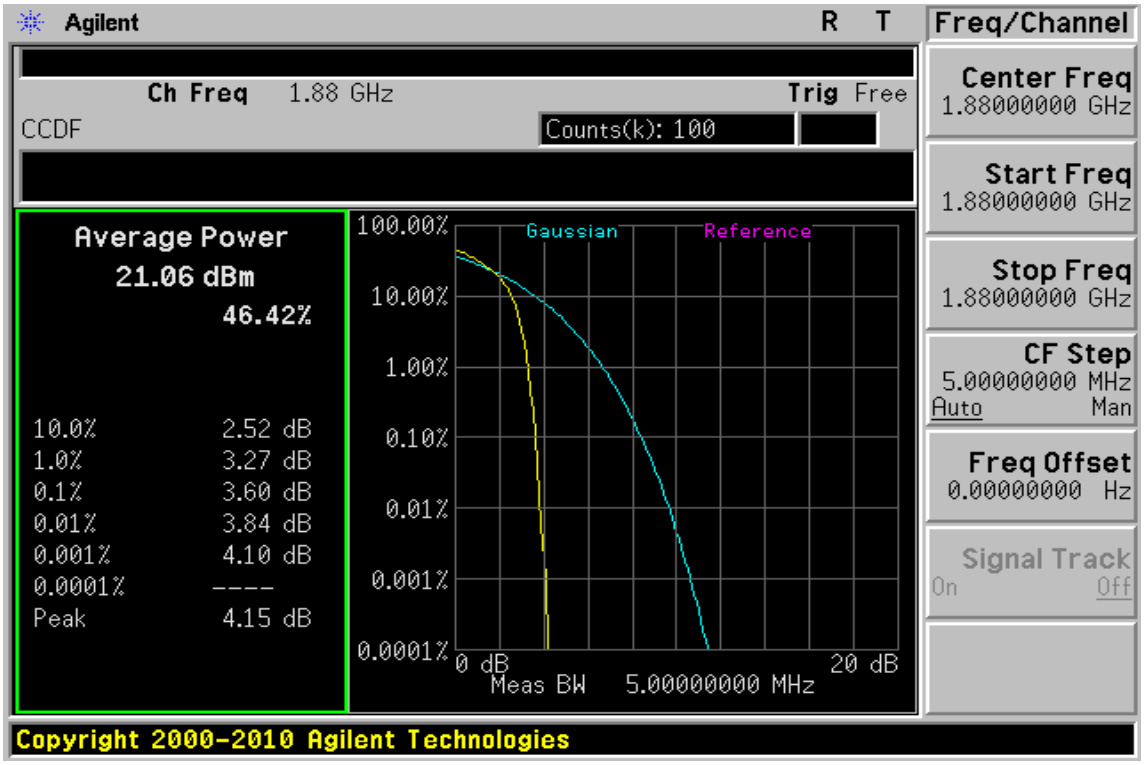
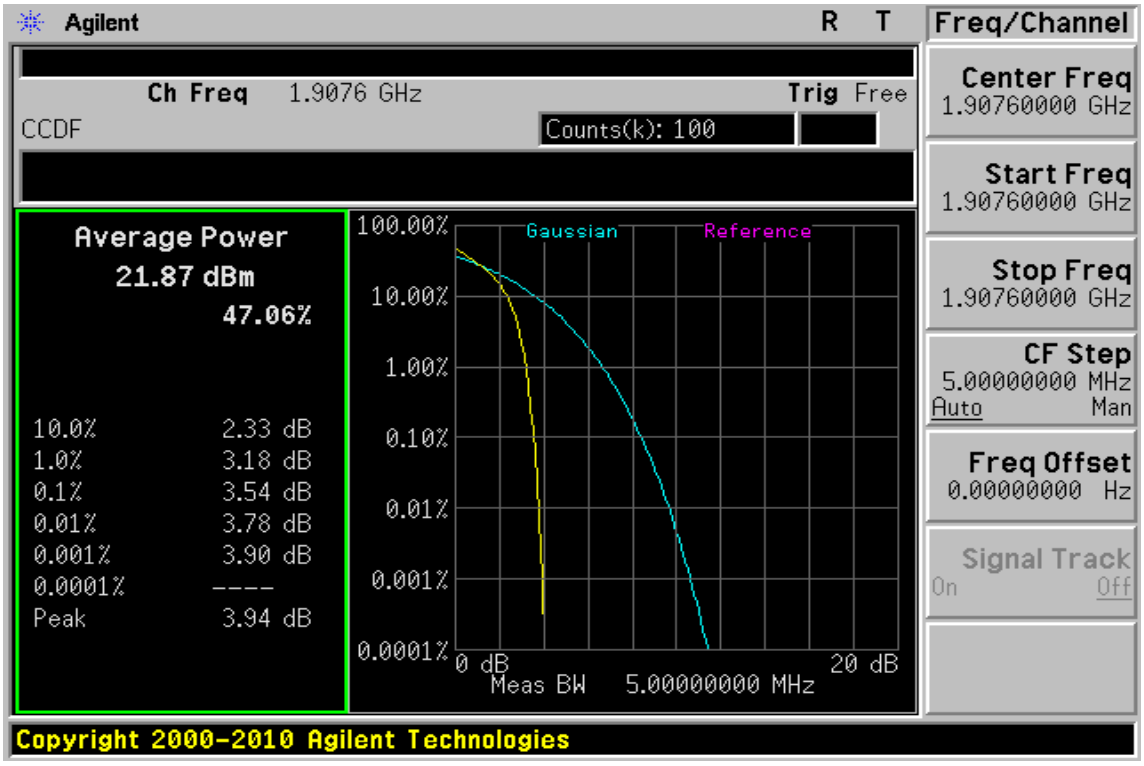


Figure 13-30: HSDPA Band II Channel High



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Figure 13-31: HSDPA Band IV Channel Low

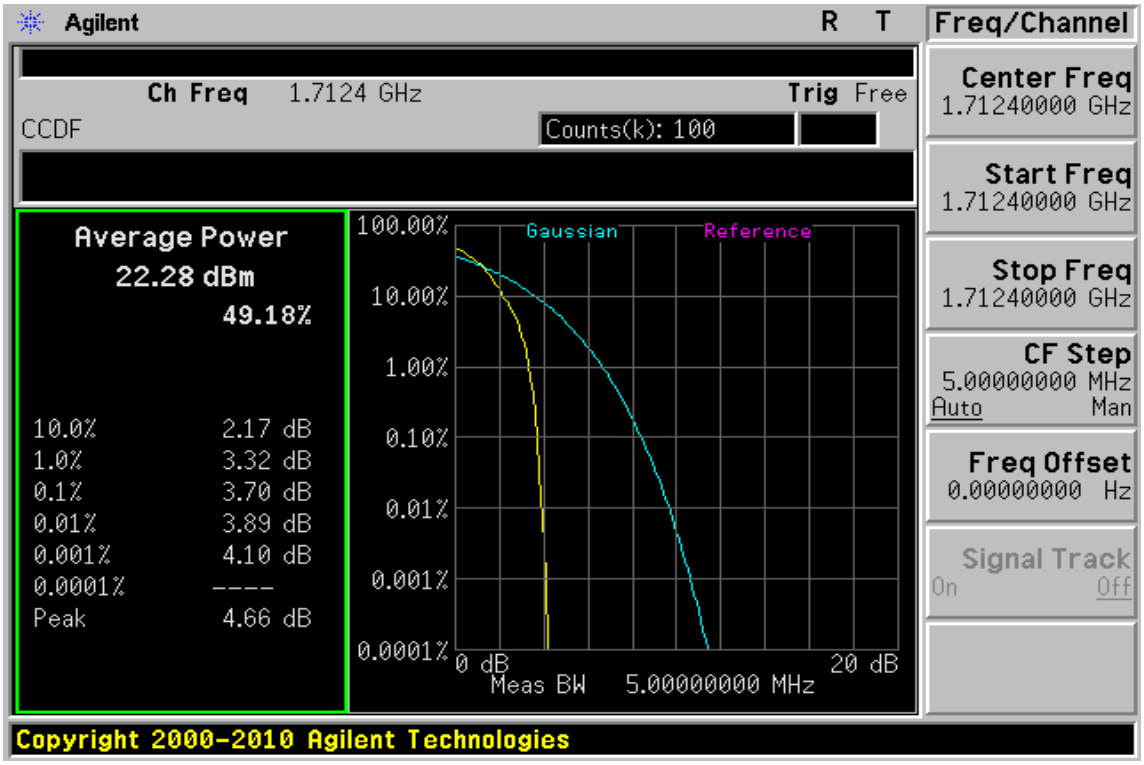
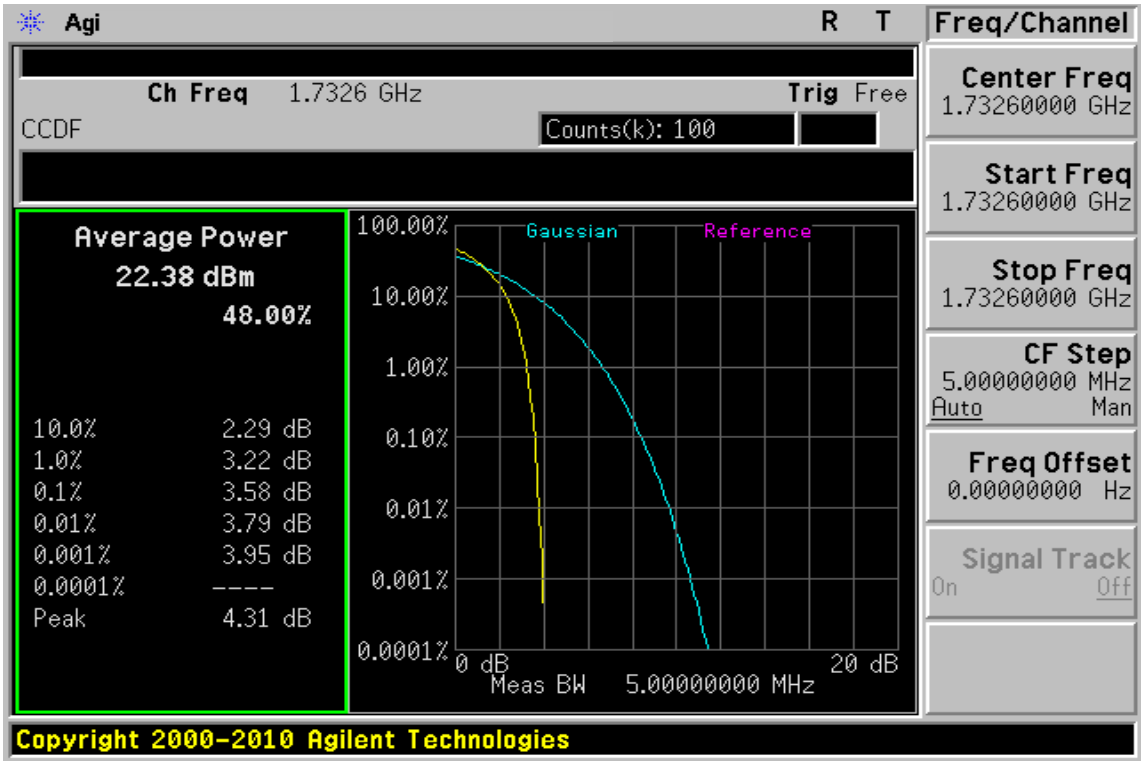


Figure 13-32: HSDPA Band IV Channel Mid



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Figure 13-33: HSDPA Band IV Channel High

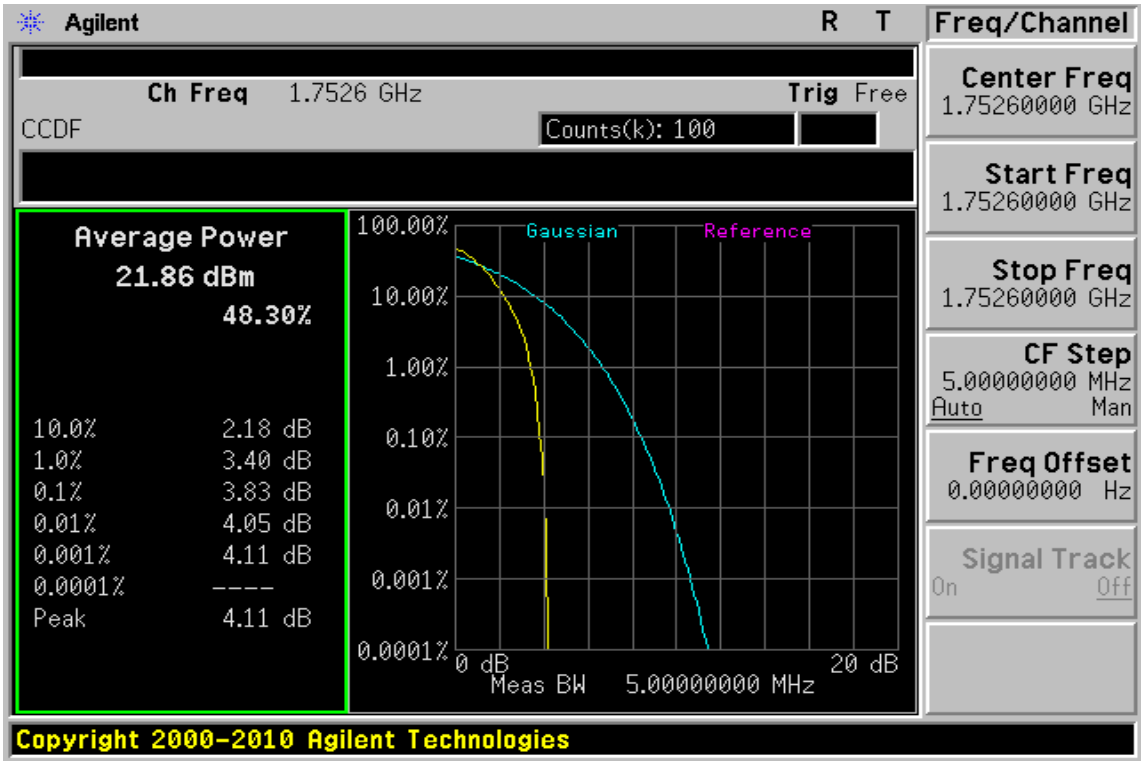
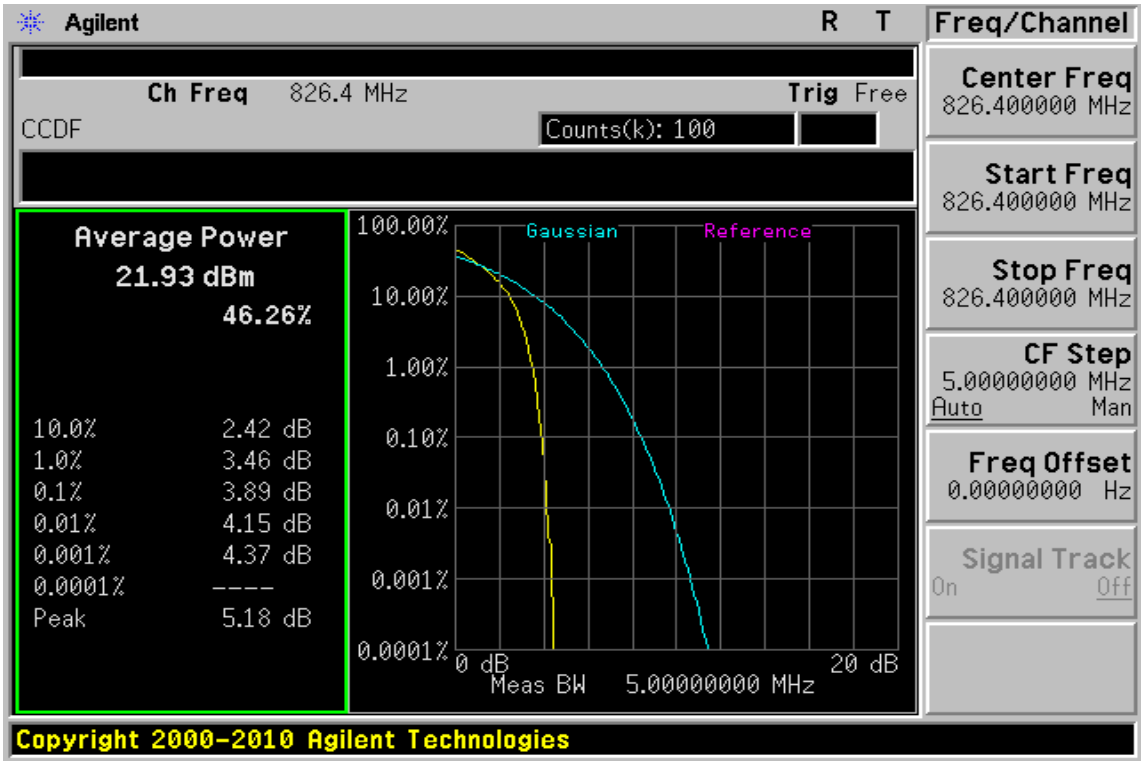


Figure 13-34: HSDPA Band V Channel Low



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Figure 13-35: HSDPA Band V Channel Mid

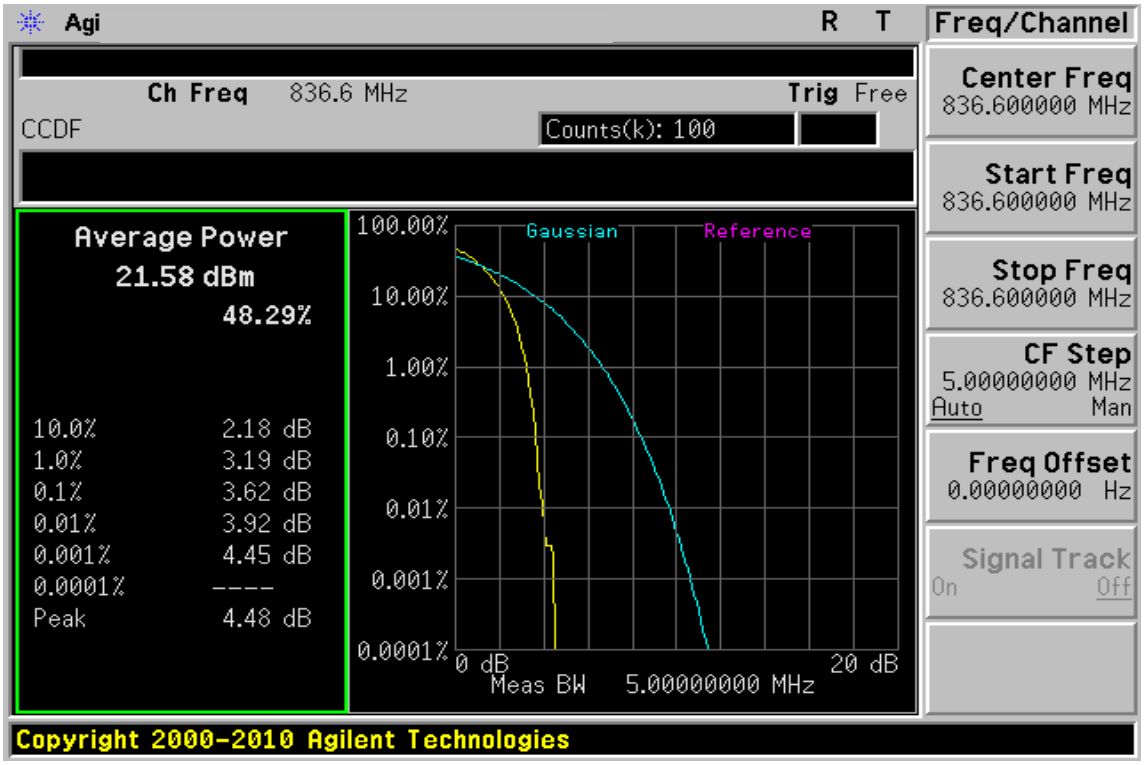
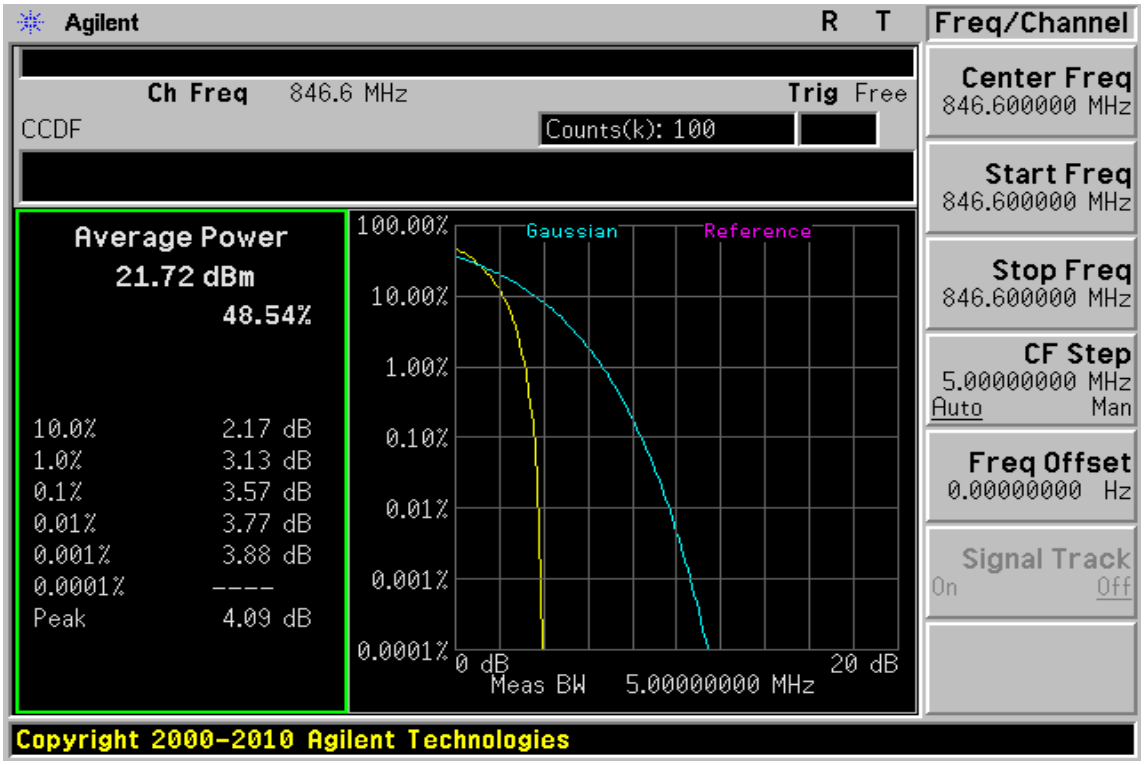


Figure 13-36: HSDPA Band V Channel High



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Figure 13-37: HSUPA Band II Channel Low

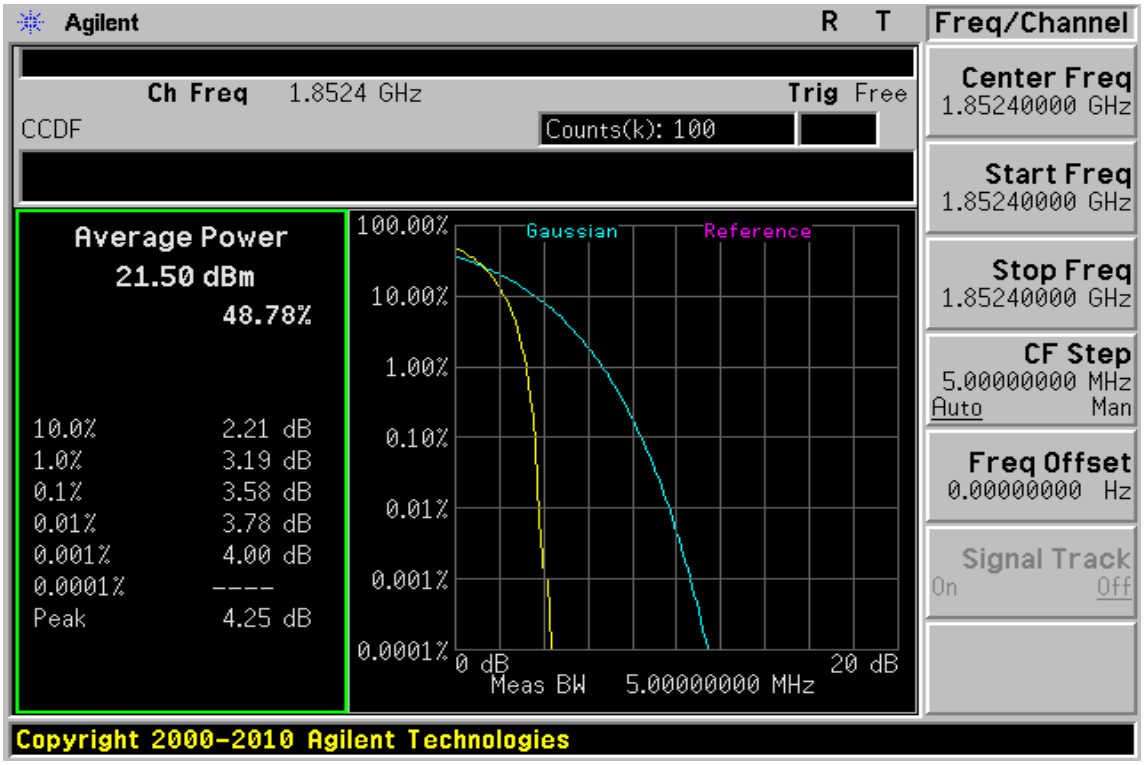
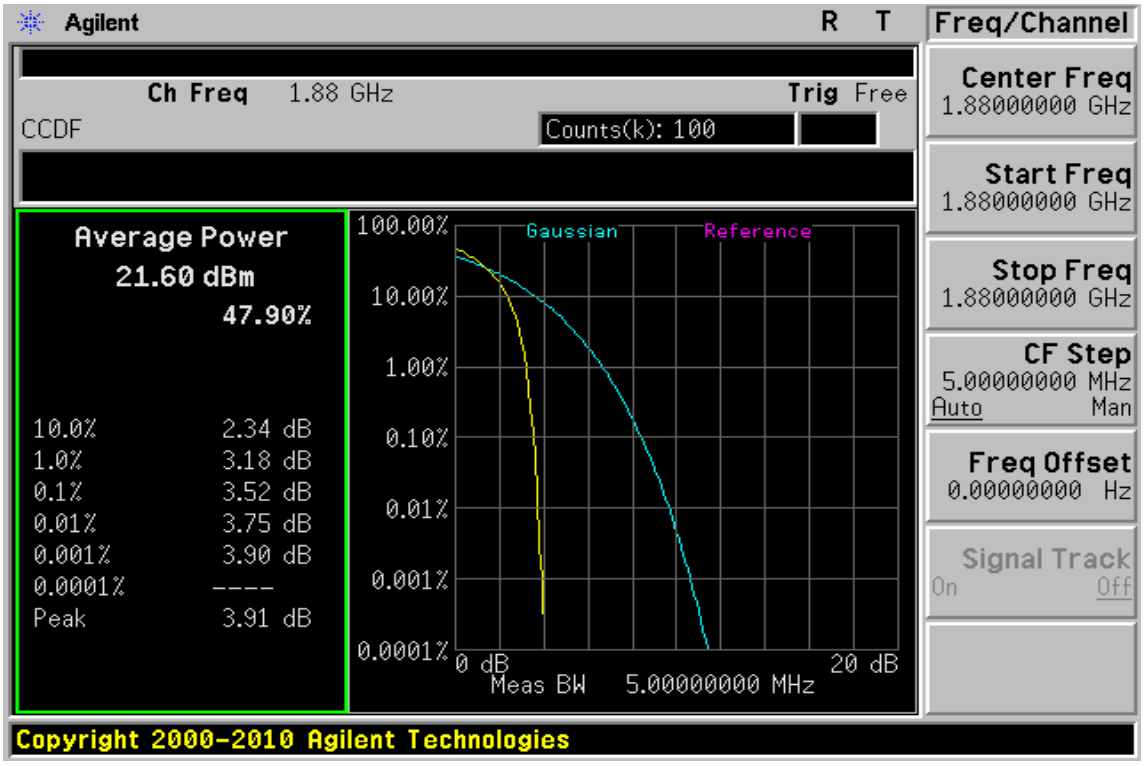


Figure 13-38: HSUPA Band II Channel Mid



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Figure 13-39: HSUPA Band II Channel High

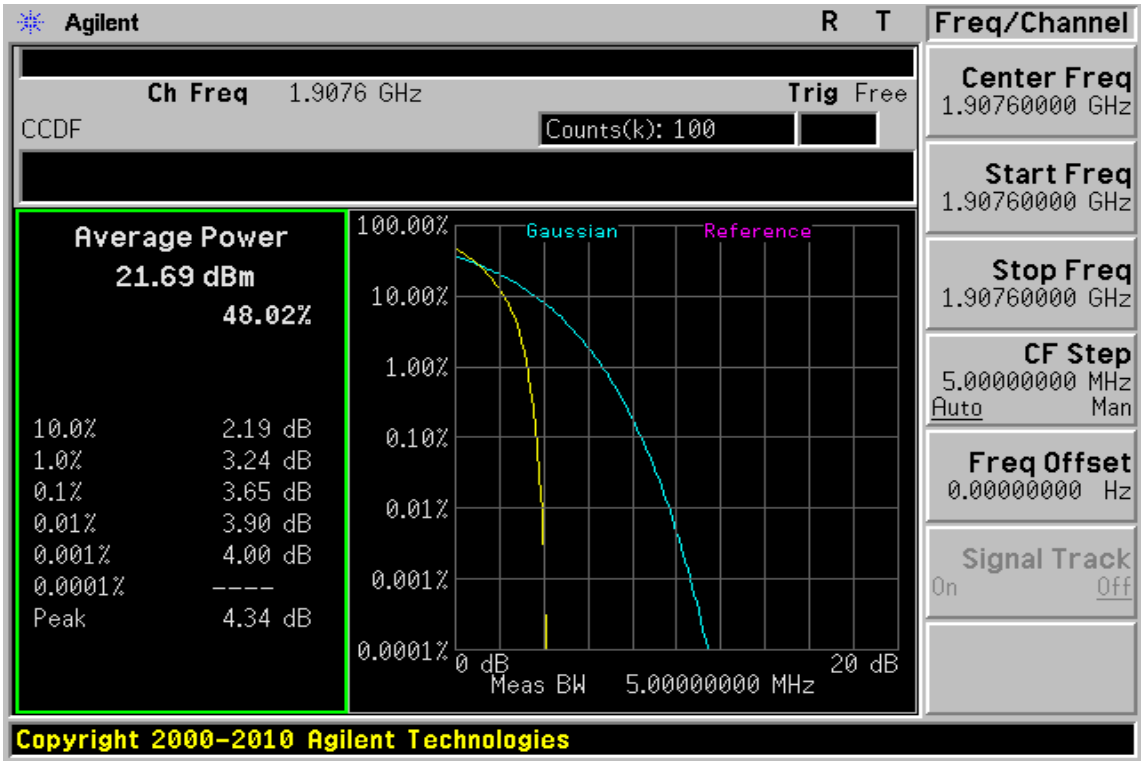
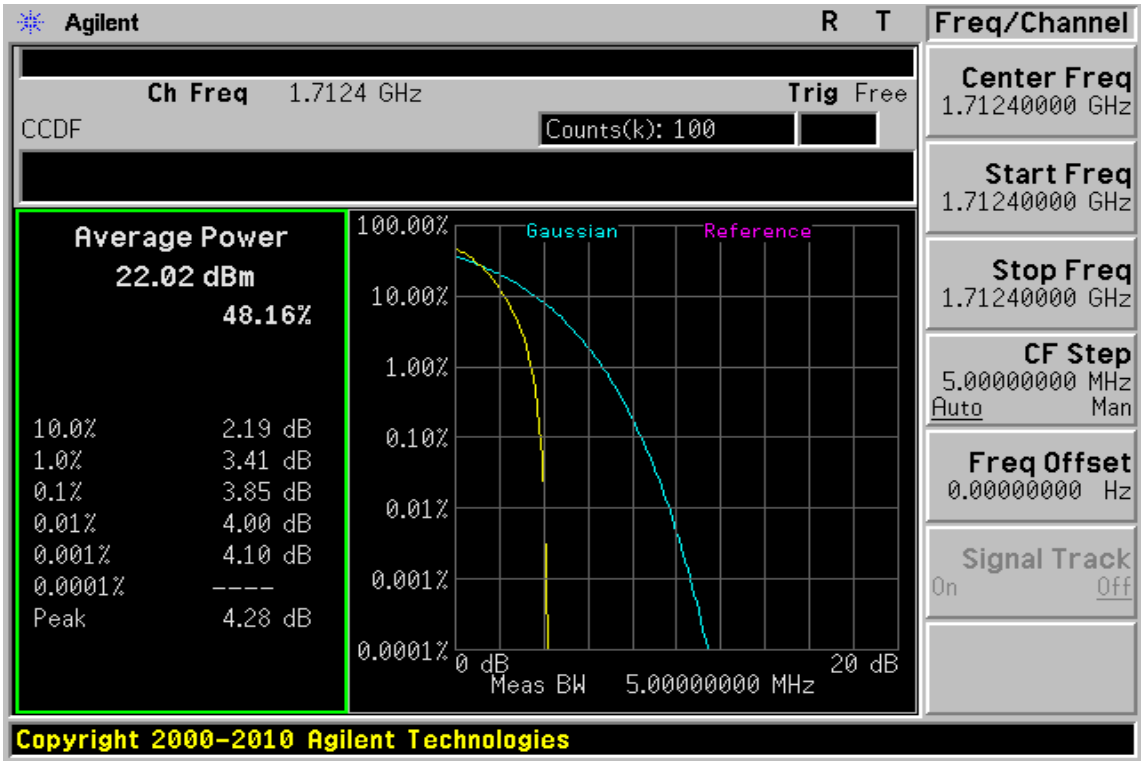


Figure 13-40: HSUPA Band IV Channel Low



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Figure 13-41: HSUPA Band IV Channel Mid

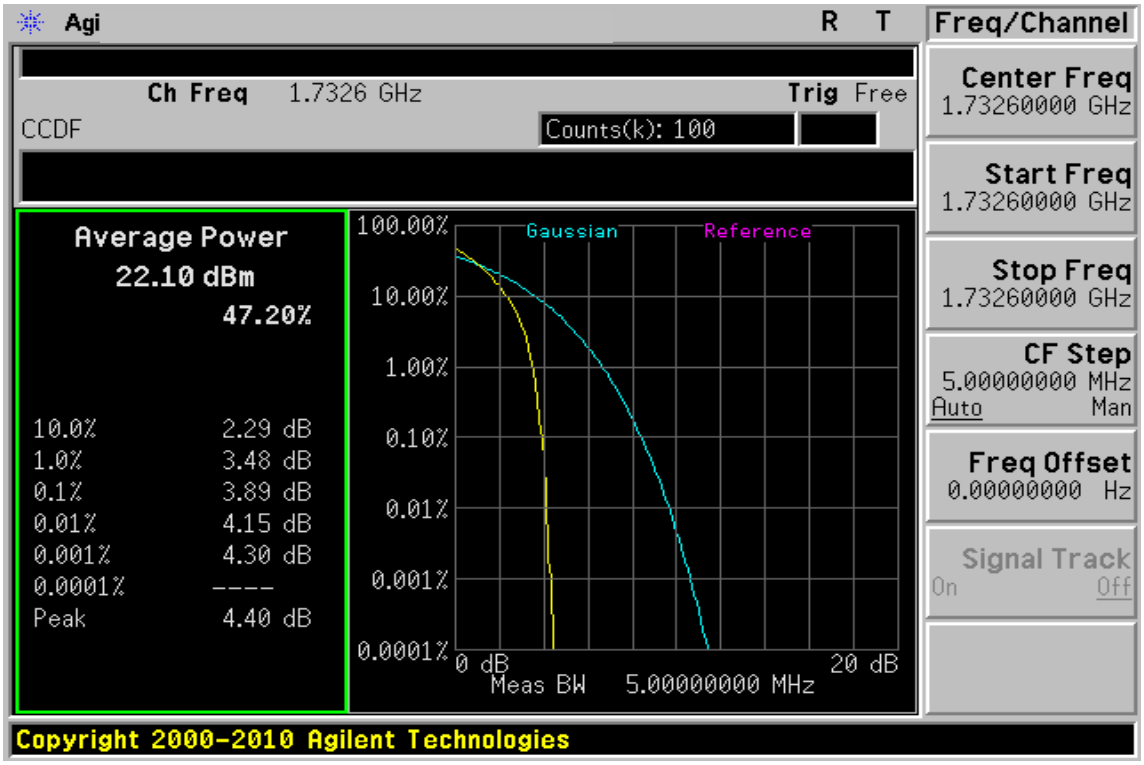
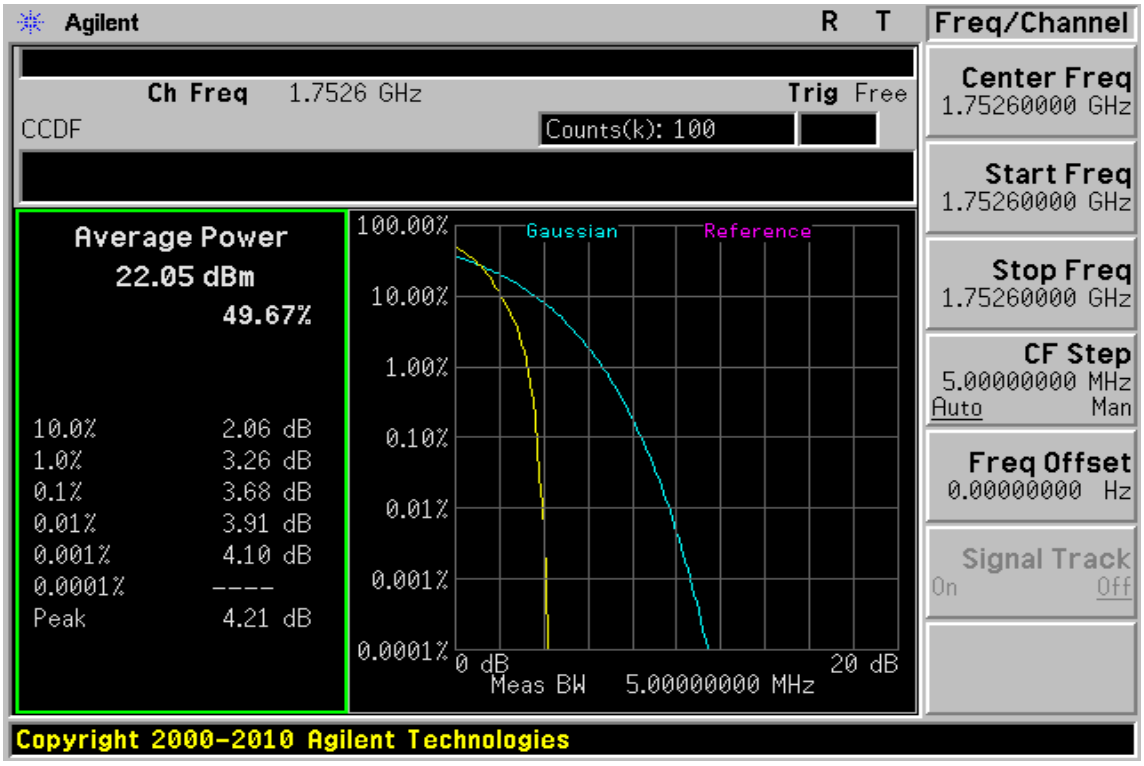


Figure 13-42: HSUPA Band IV Channel High



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Figure 13-43: HSUPA Band V Channel Low

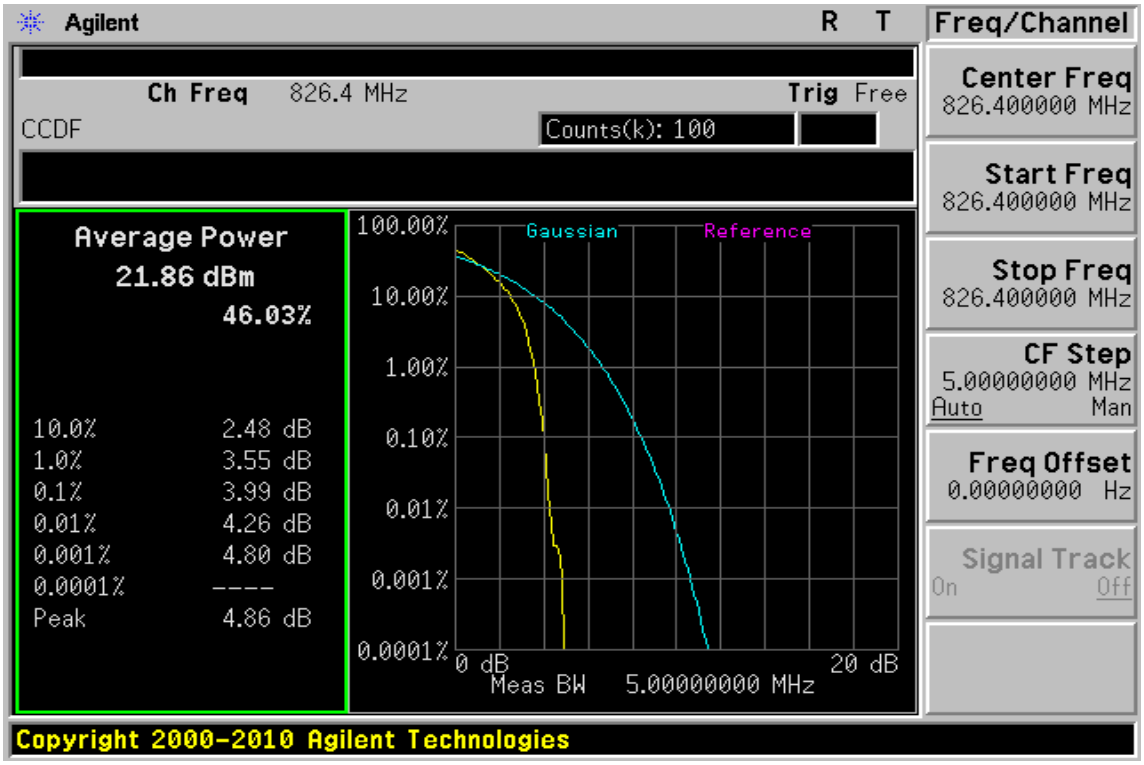
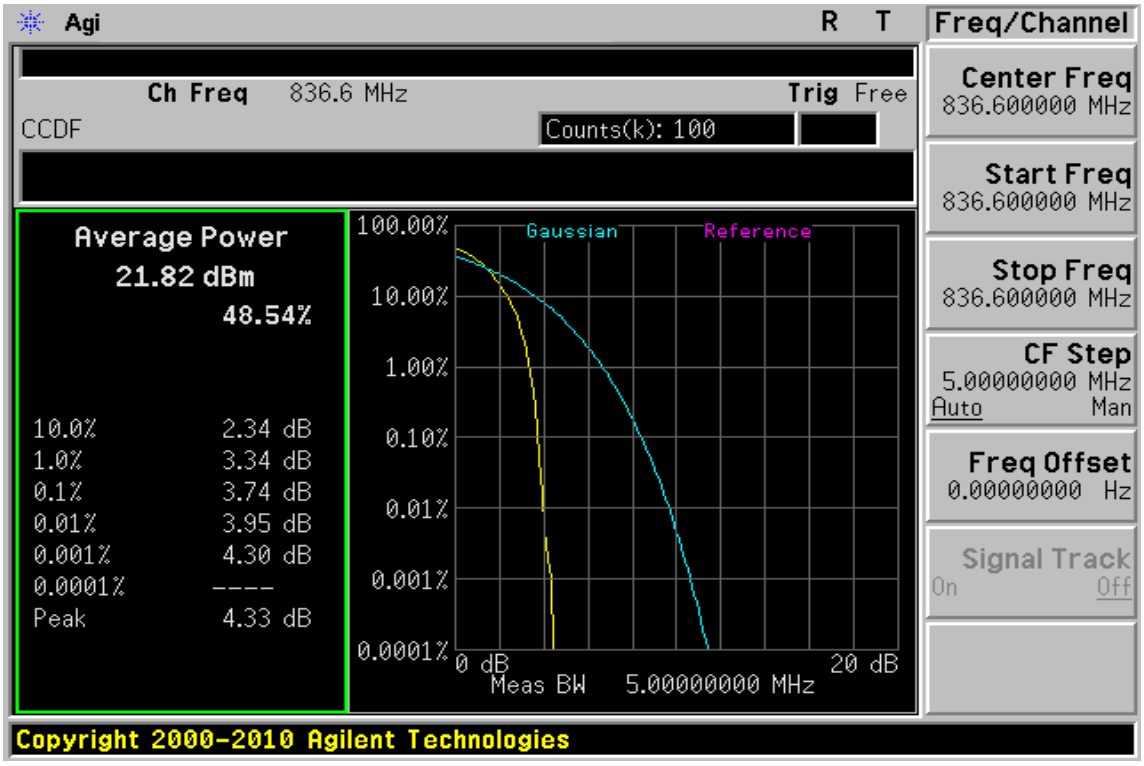
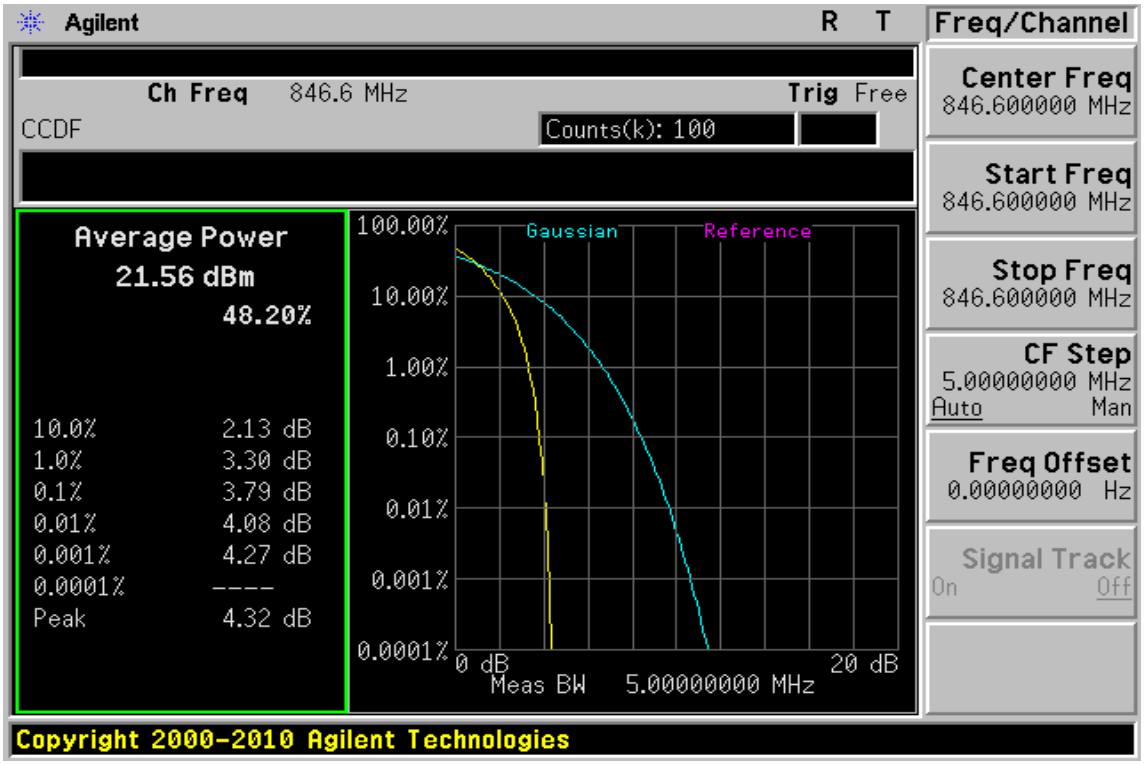


Figure 13-44: HSUPA Band V Channel Mid



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Figure 13-45: HSUPA Band V Channel High



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Figure 13-46: 1.4MHz BW LTE-Band 2(16QAM Number: 6 Offset: 0) Channel Low

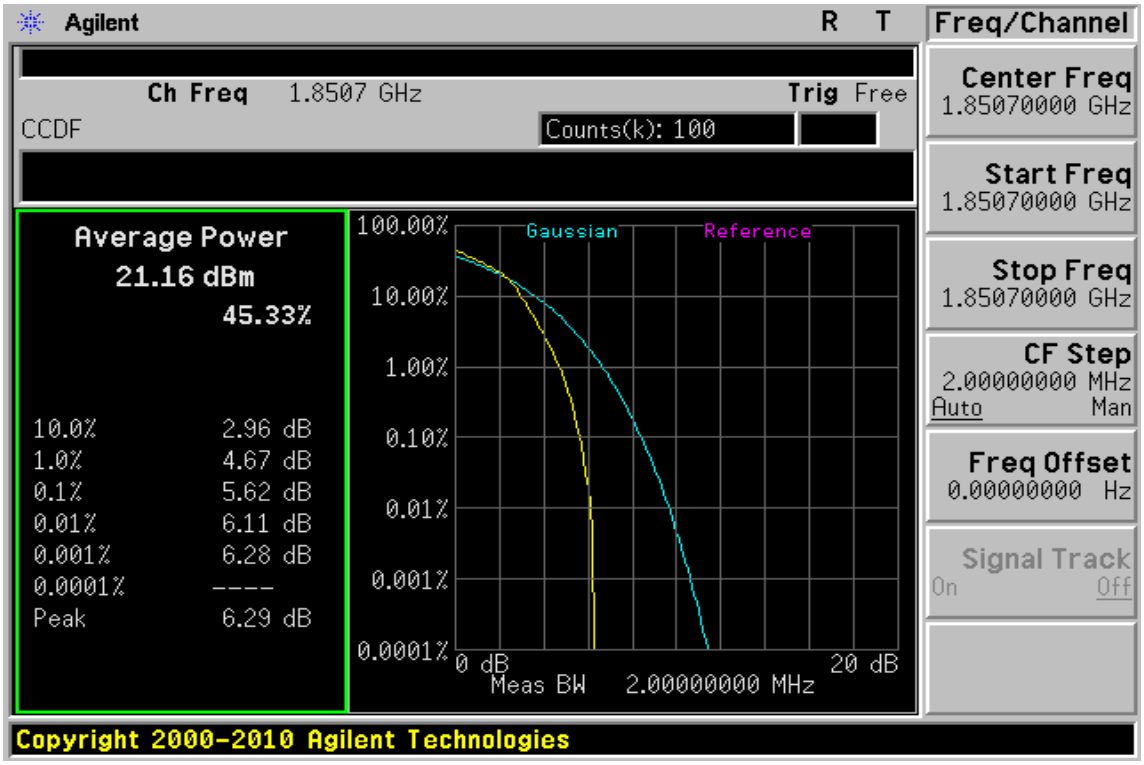
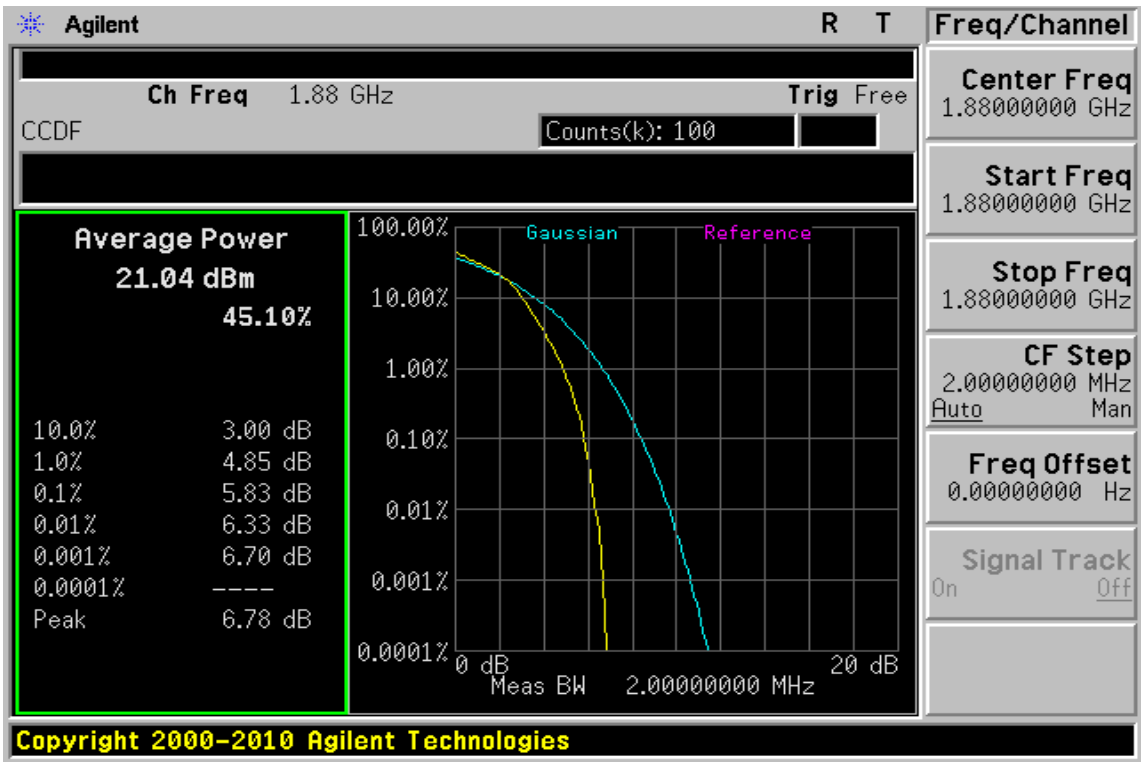


Figure 13-47: 1.4MHz BW LTE-Band 2(16QAM Number: 6 Offset: 0) Channel Mid



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Figure 13-48: 1.4MHz BW LTE-Band 2(16QAM Number: 6 Offset: 0) Channel High

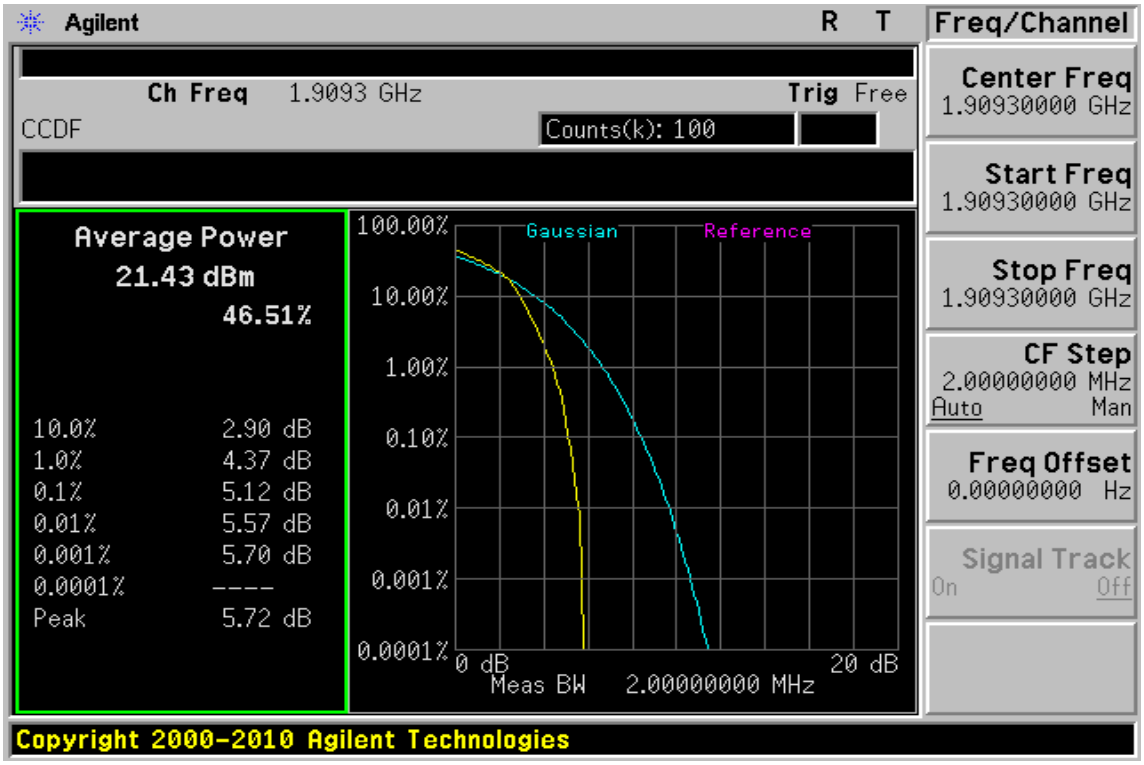
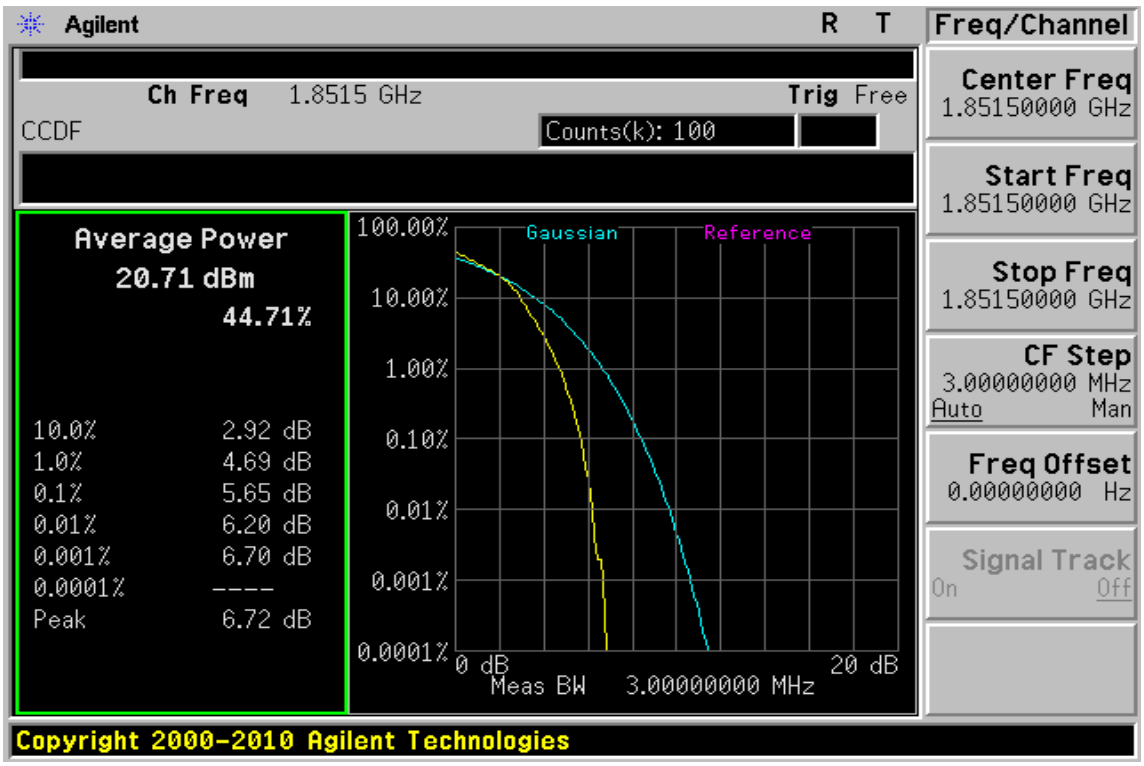


Figure 13-49: 3MHz BW LTE-Band 2(16QAM Number: 15 Offset: 0) Channel Low



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Figure 13-50: 3MHz BW LTE-Band 2(16QAM Number: 15 Offset: 0) Channel Mid

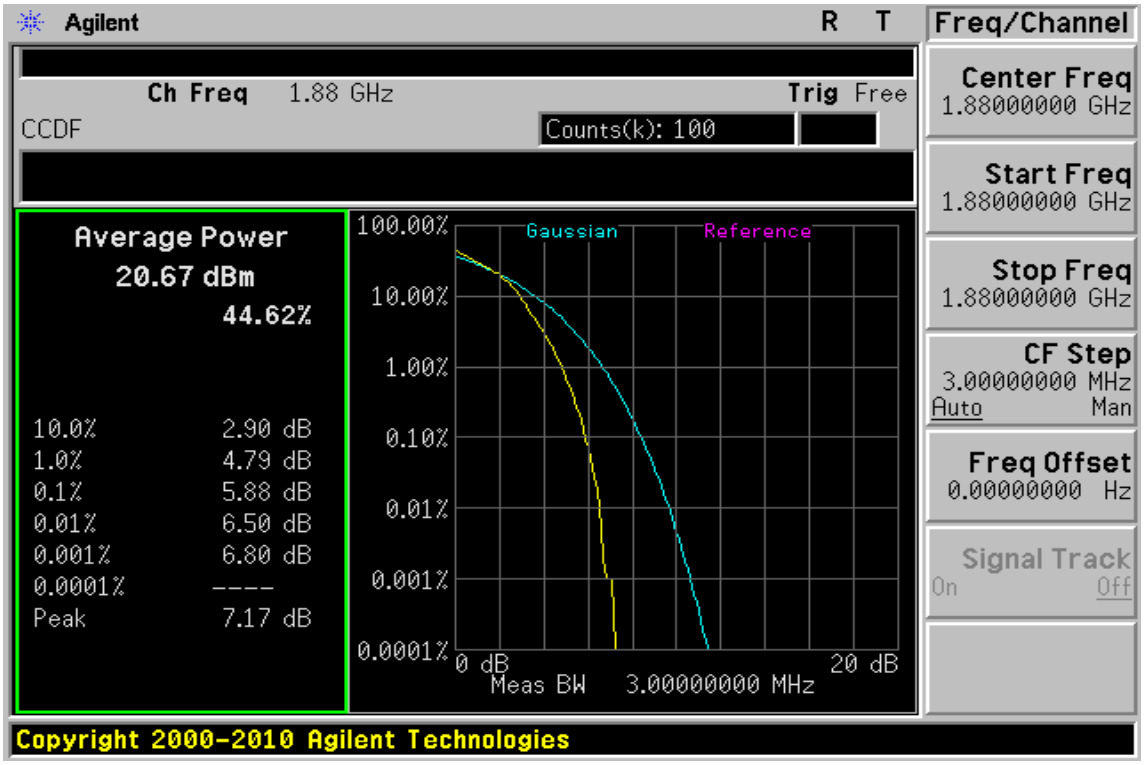
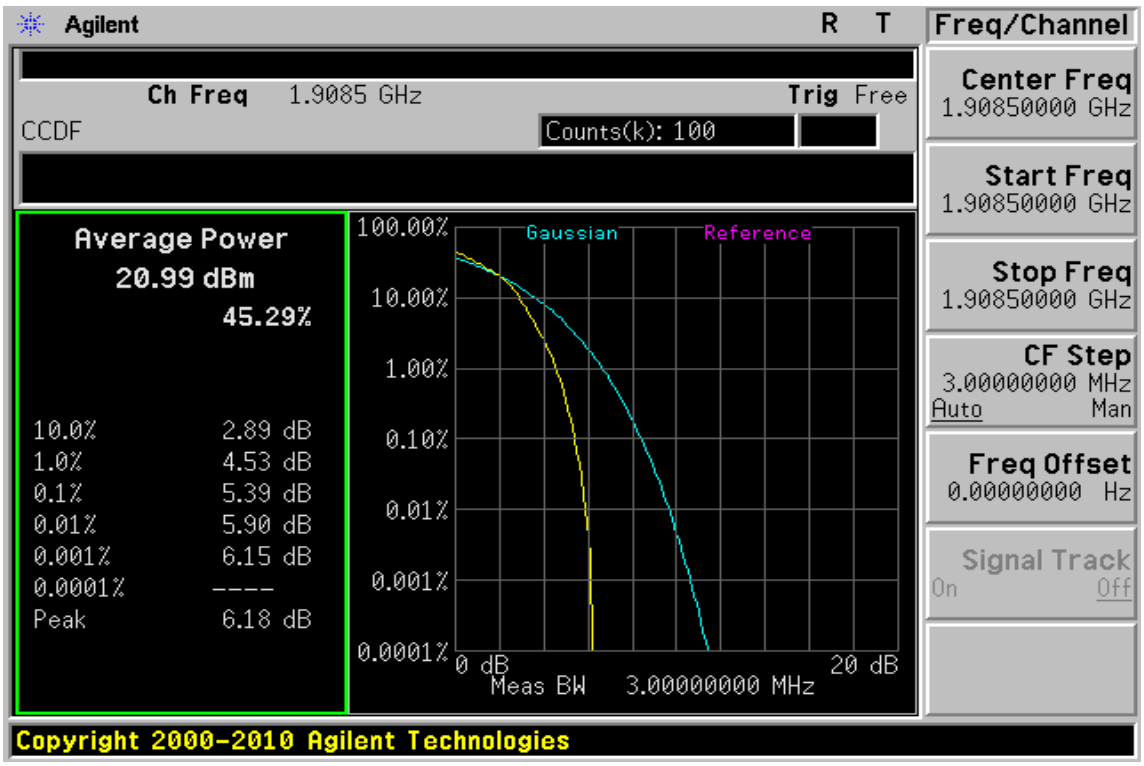


Figure 13-51: 3MHz BW LTE-Band 2(16QAM Number: 15 Offset: 0) Channel High



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Figure 13-52: 5MHz BW LTE-Band 2(16QAM Number: 25 Offset: 0) Channel Low

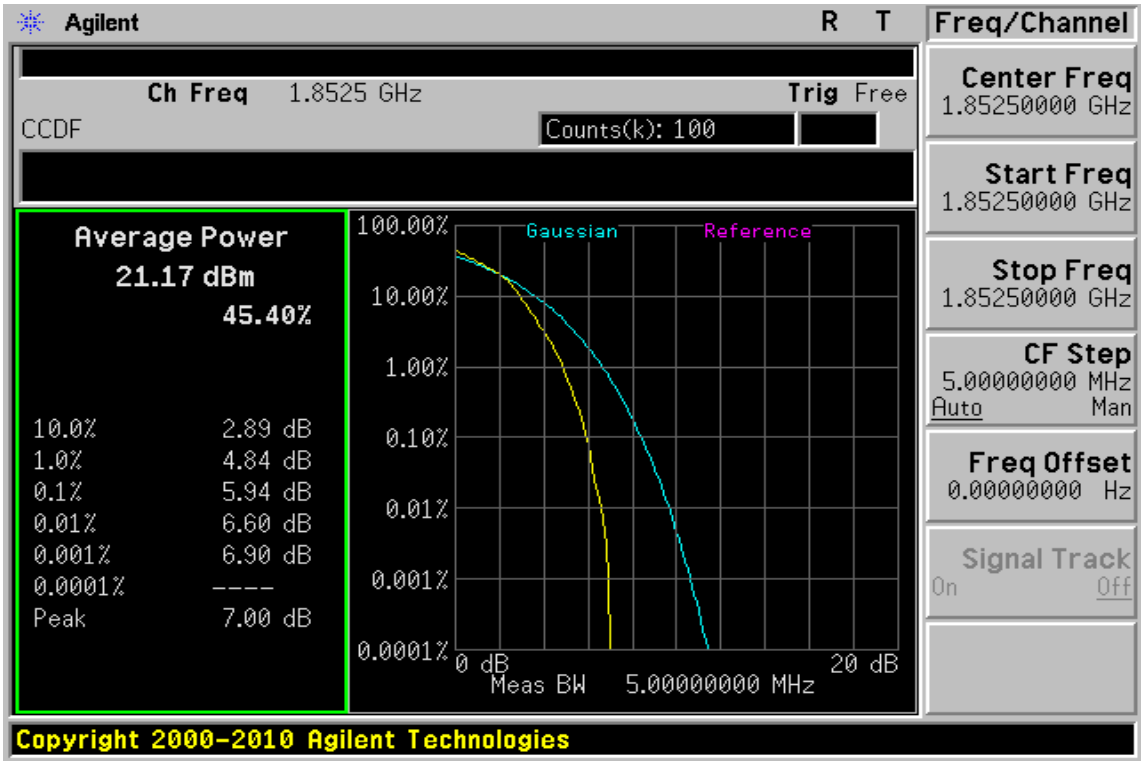
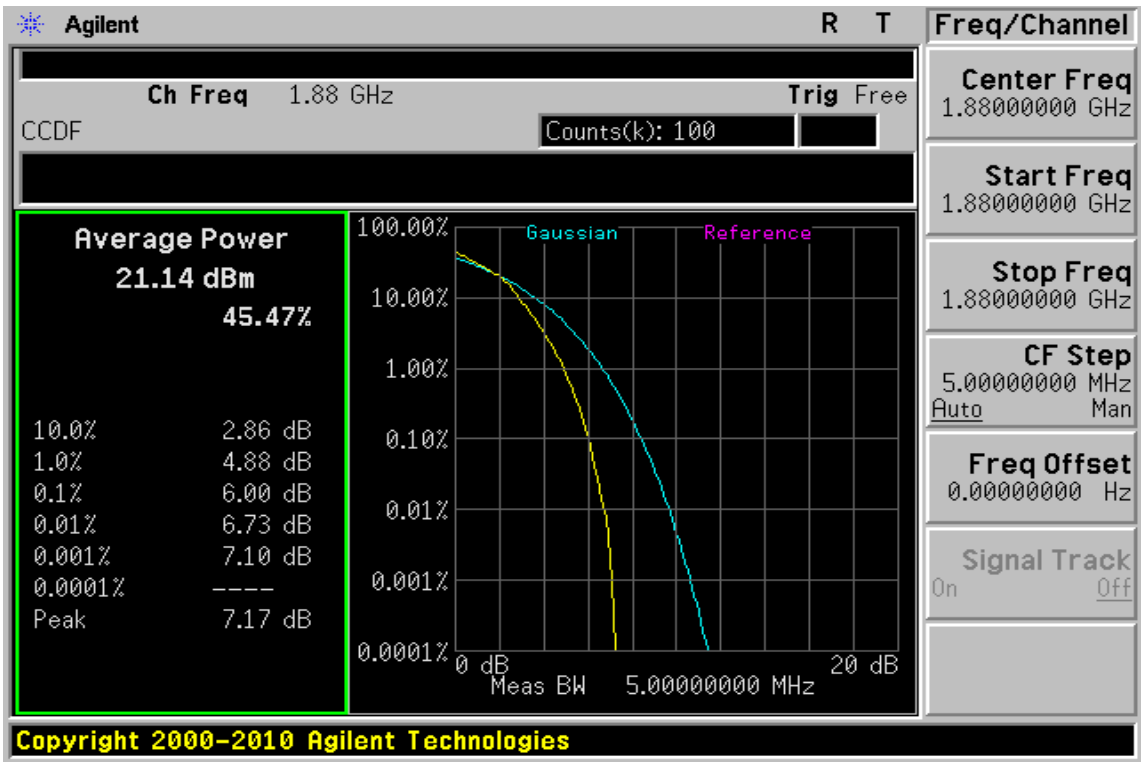


Figure 13-53: 5MHz BW LTE-Band 2(16QAM Number: 25 Offset: 0) Channel Mid



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Figure 13-54: 5MHz BW LTE-Band 2(16QAM Number: 25 Offset: 0) Channel High

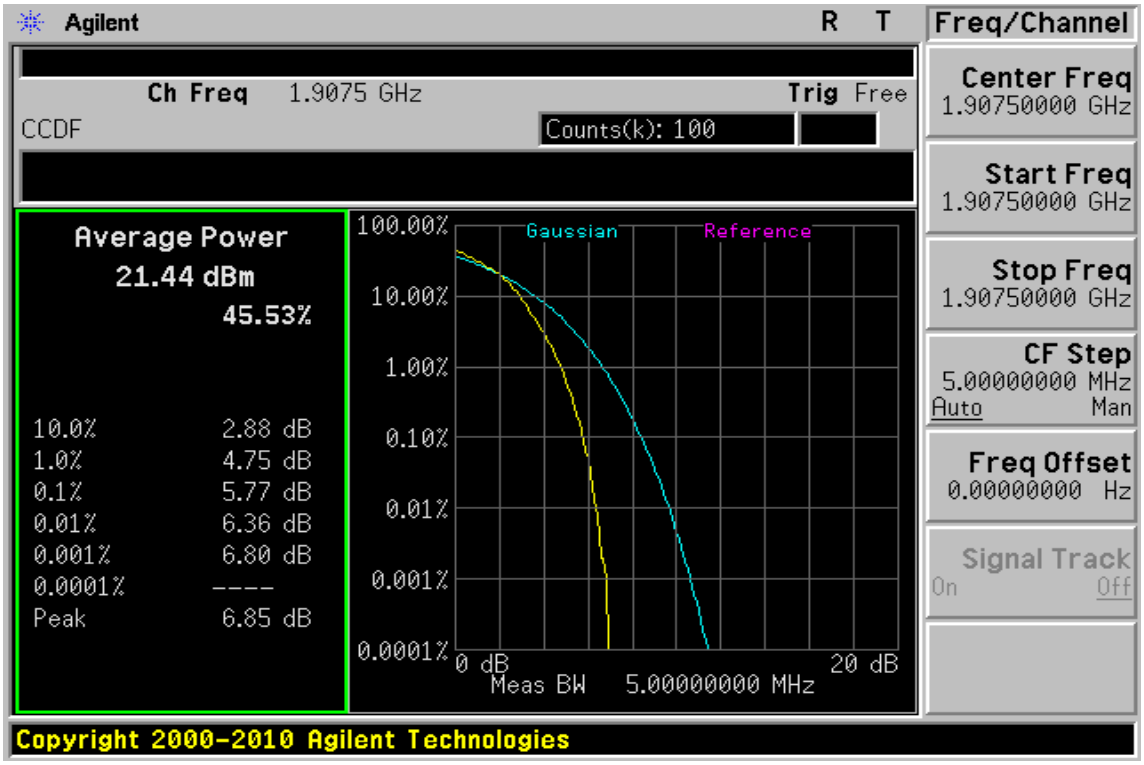
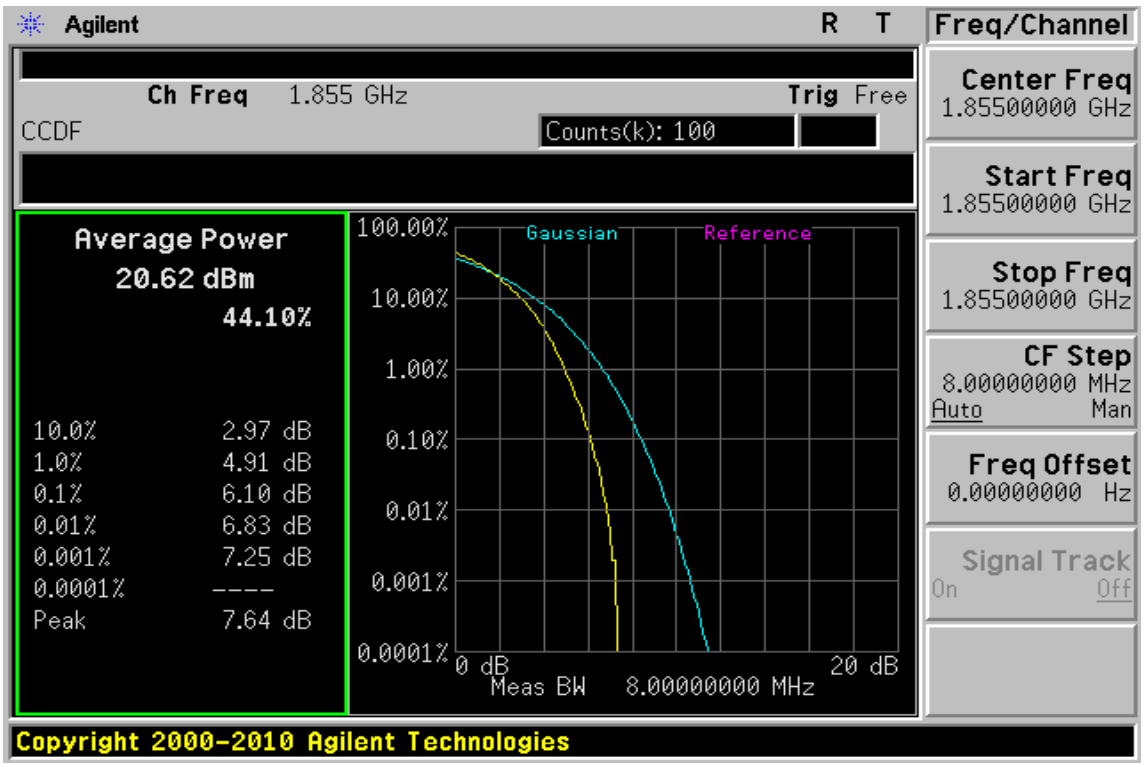


Figure 13-55: 10MHz BW LTE-Band 2(16QAM Number: 50 Offset: 0) Channel Low



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Figure 13-56: 10MHz BW LTE-Band 2(16QAM Number: 50 Offset: 0) Channel Mid

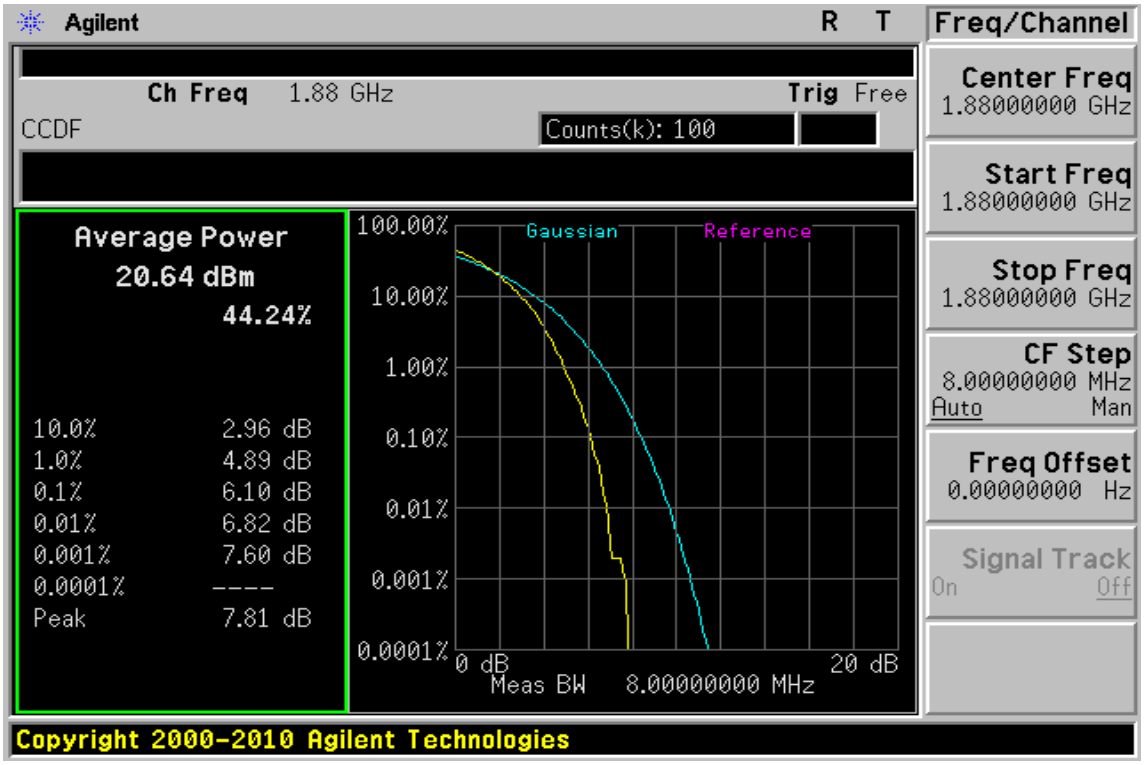
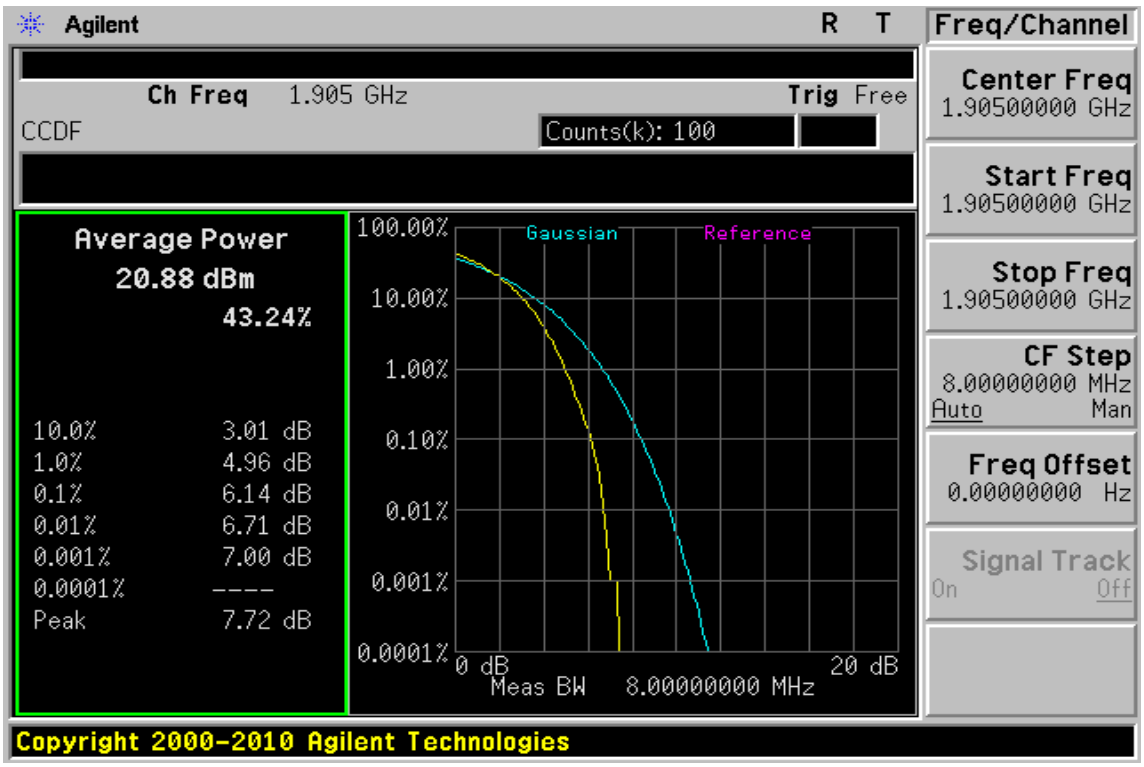


Figure 13-57: 10MHz BW LTE-Band 2(16QAM Number: 50 Offset: 0) Channel High



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Figure 13-58: 15MHz BW LTE-Band 2(16QAM Number: 75 Offset: 0) Channel Low

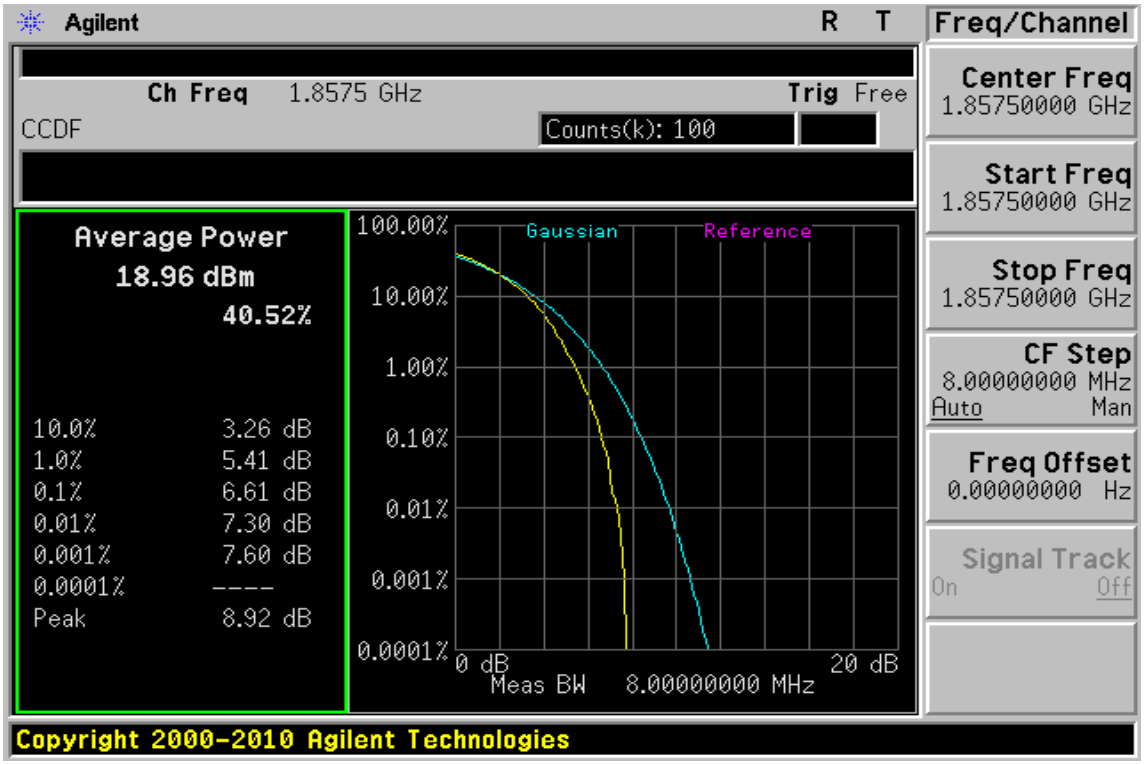
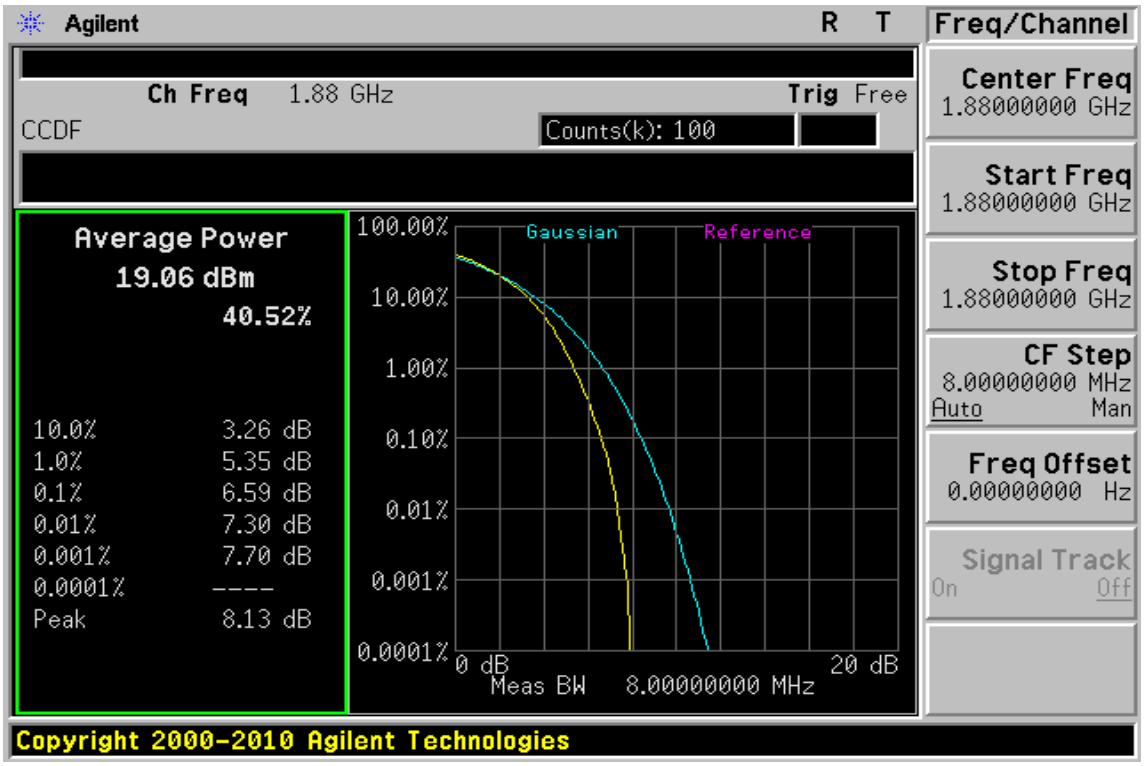


Figure 13-59: 15MHz BW LTE-Band 2(16QAM Number: 75 Offset: 0) Channel Mid



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Figure 13-60: 15MHz BW LTE-Band 2(16QAM Number: 75 Offset: 0) Channel High

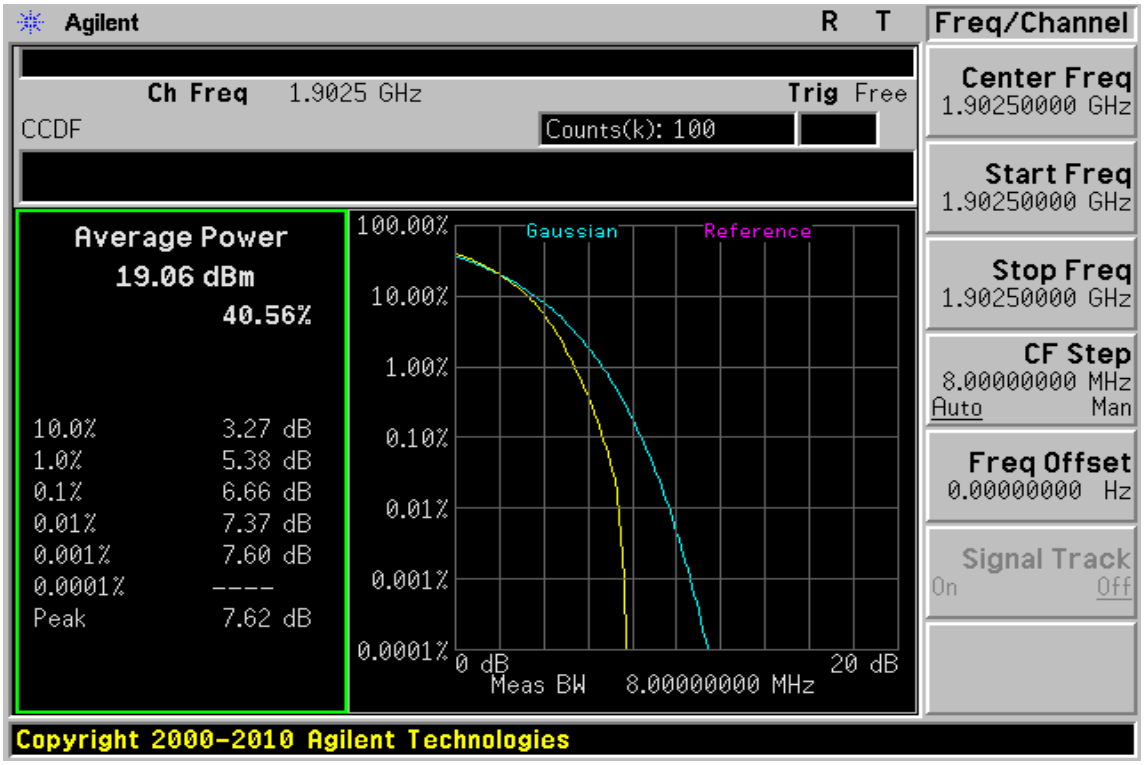
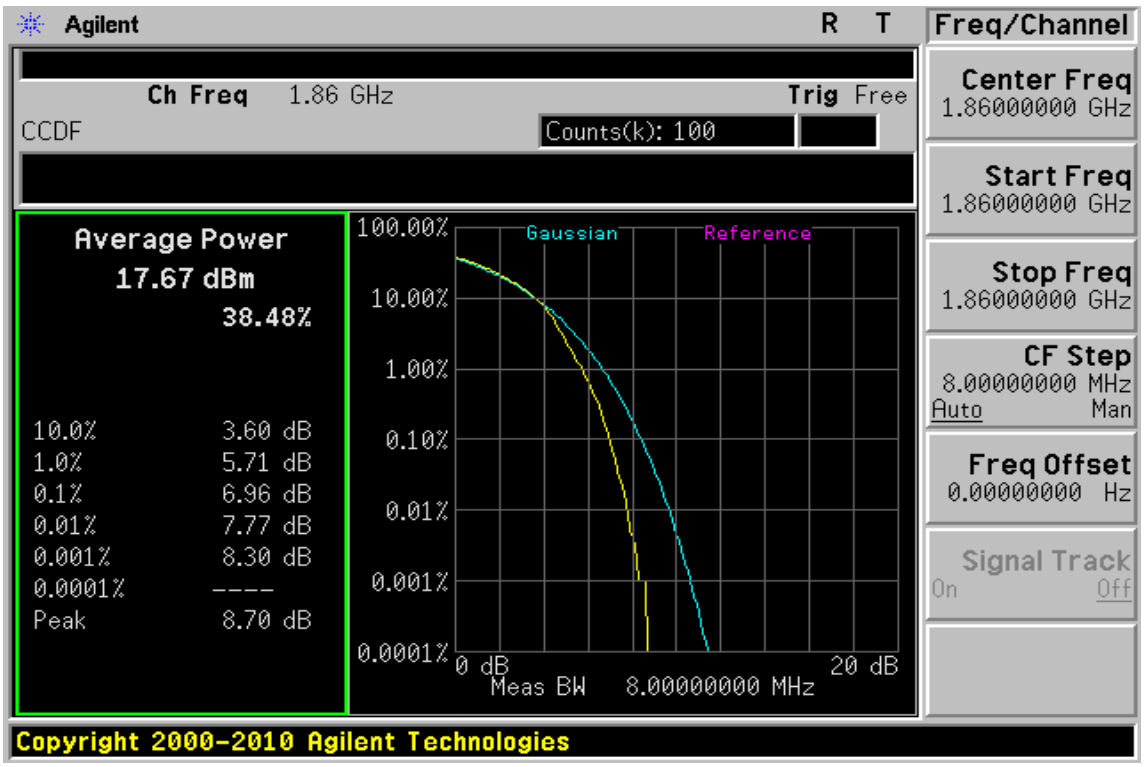


Figure 13-61: 20MHz BW LTE-Band 2(16QAM Number: 100 Offset: 0) Channel Low



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Figure 13-62: 20MHz BW LTE-Band 2(16QAM Number: 100 Offset: 0) Channel Mid

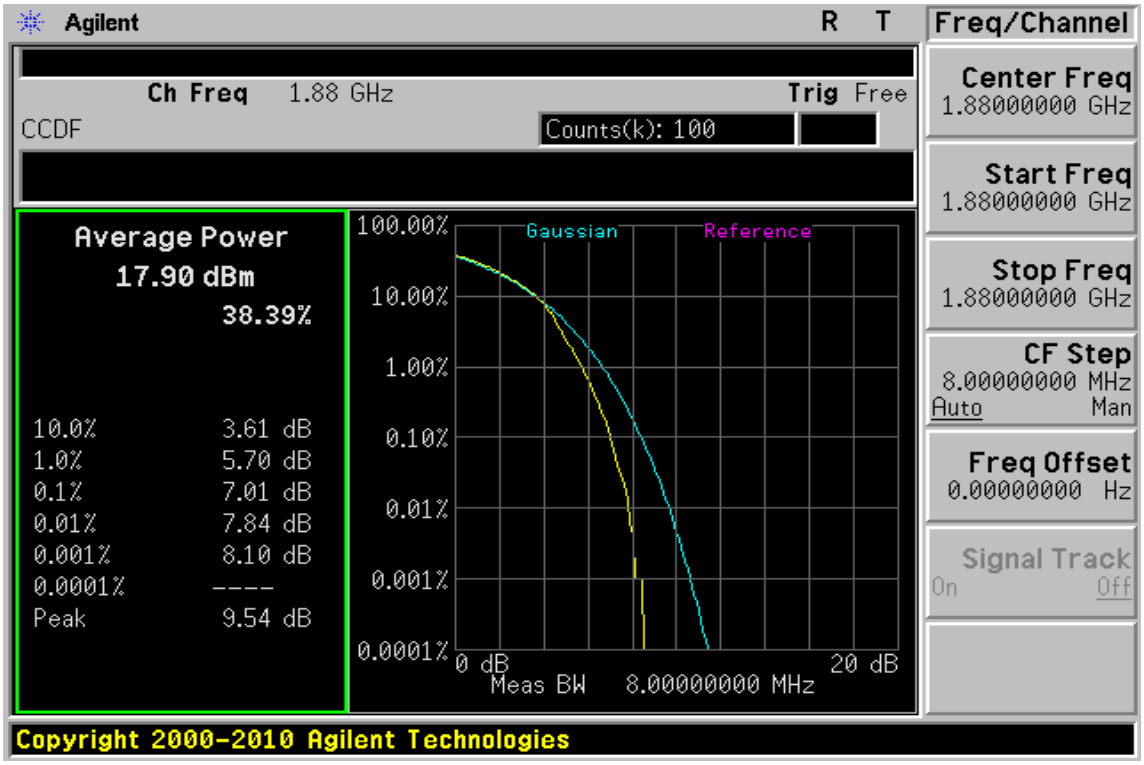
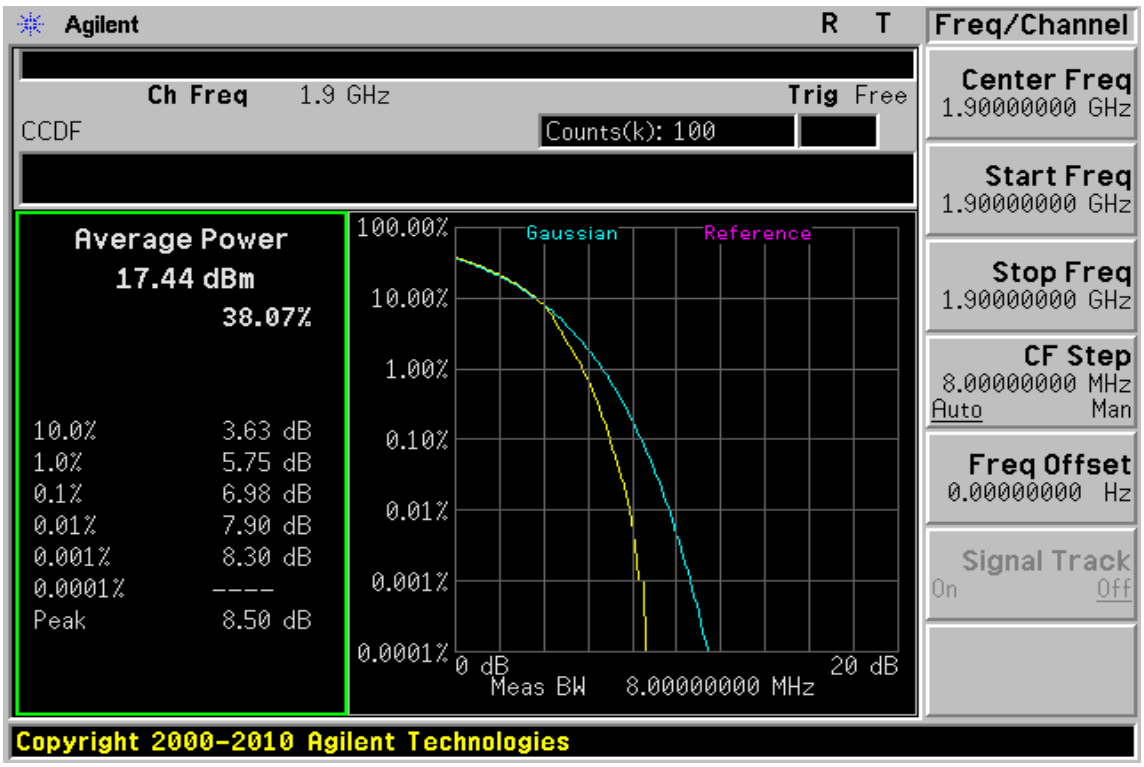


Figure 13-63: 20MHz BW LTE-Band 2(16QAM Number: 100 Offset: 0) Channel High



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Figure 13-64: 1.4MHz BW LTE-Band 4(16QAM Number: 6 Offset: 0) Channel Low

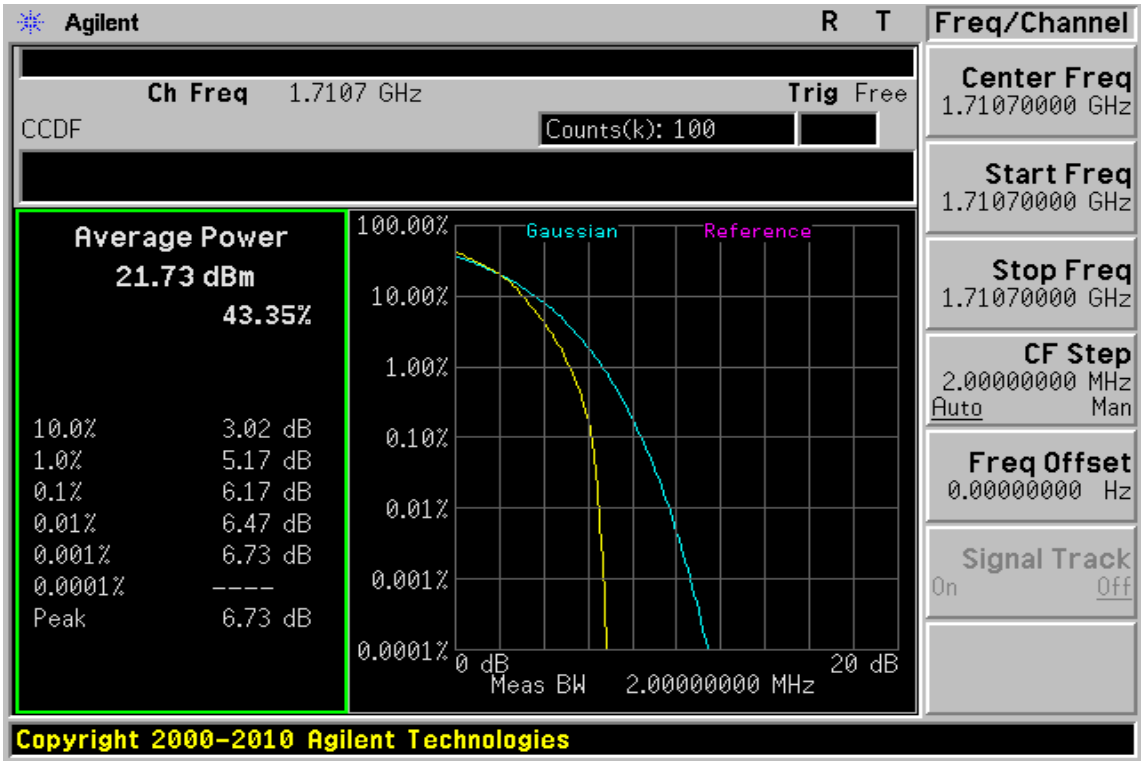
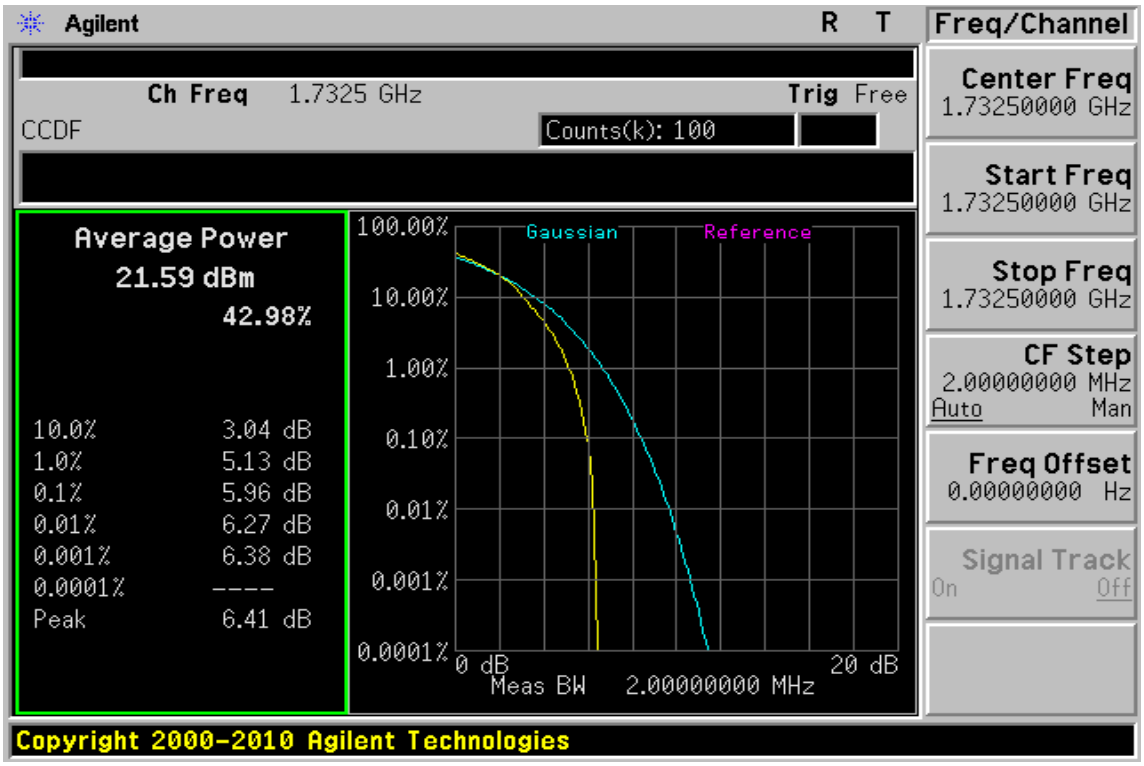


Figure 13-65: 1.4MHz BW LTE-Band 4(16QAM Number: 6 Offset: 0) Channel Mid



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Figure 13-66: 1.4MHz BW LTE-Band 4(16QAM Number: 6 Offset: 0) Channel High

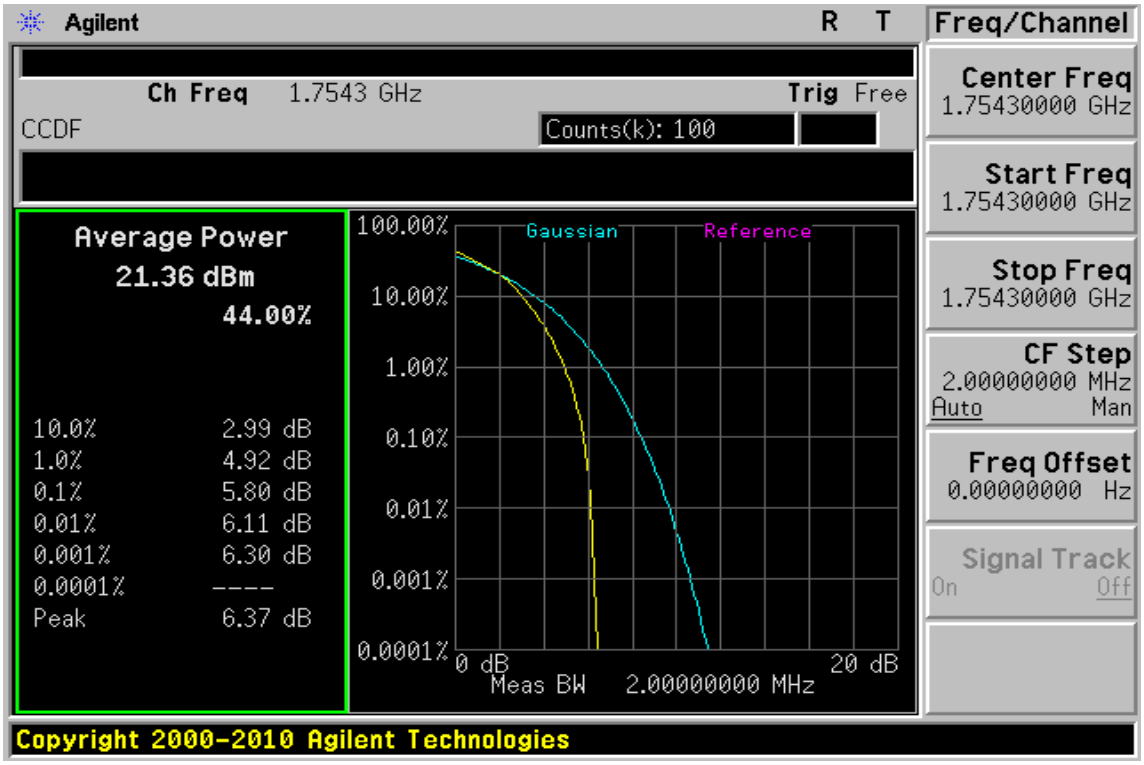
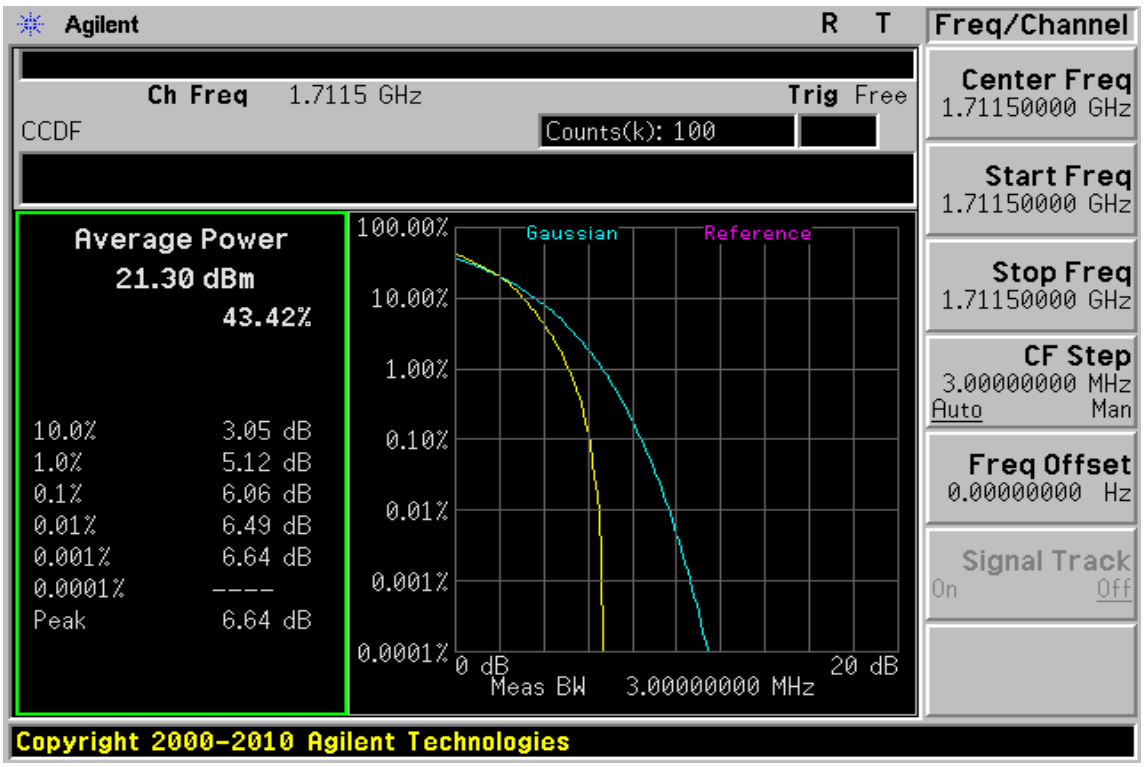


Figure 13-67: 3MHz BW LTE-Band 4(16QAM Number: 15 Offset: 0) Channel Low



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Figure 13-68: 3MHz BW LTE-Band 4(16QAM Number: 15 Offset: 0) Channel Mid

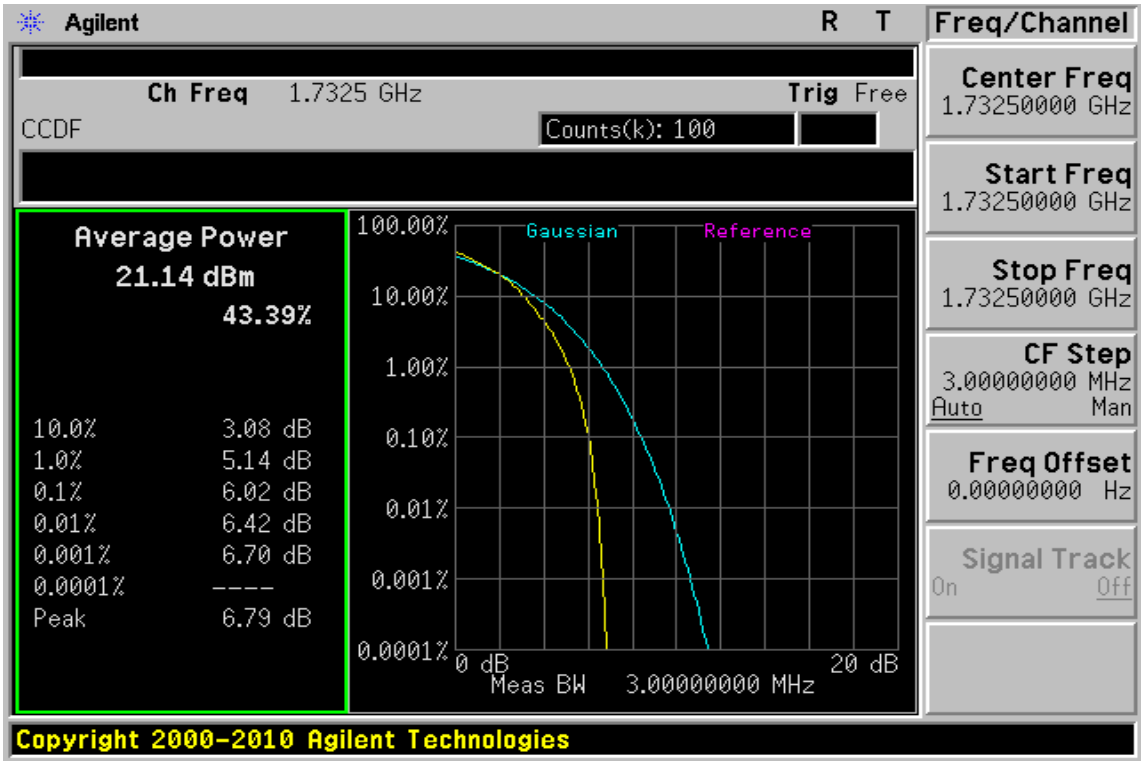
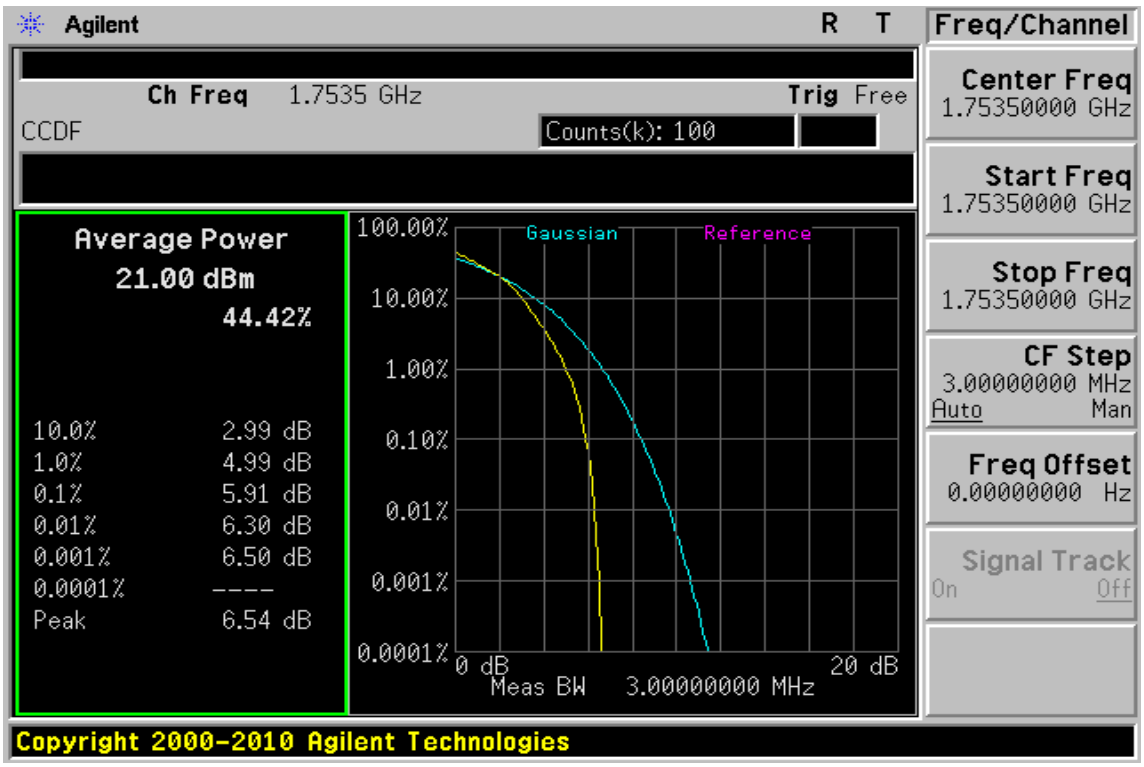


Figure 13-69: 3MHz BW LTE-Band 4(16QAM Number: 15 Offset: 0) Channel High



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

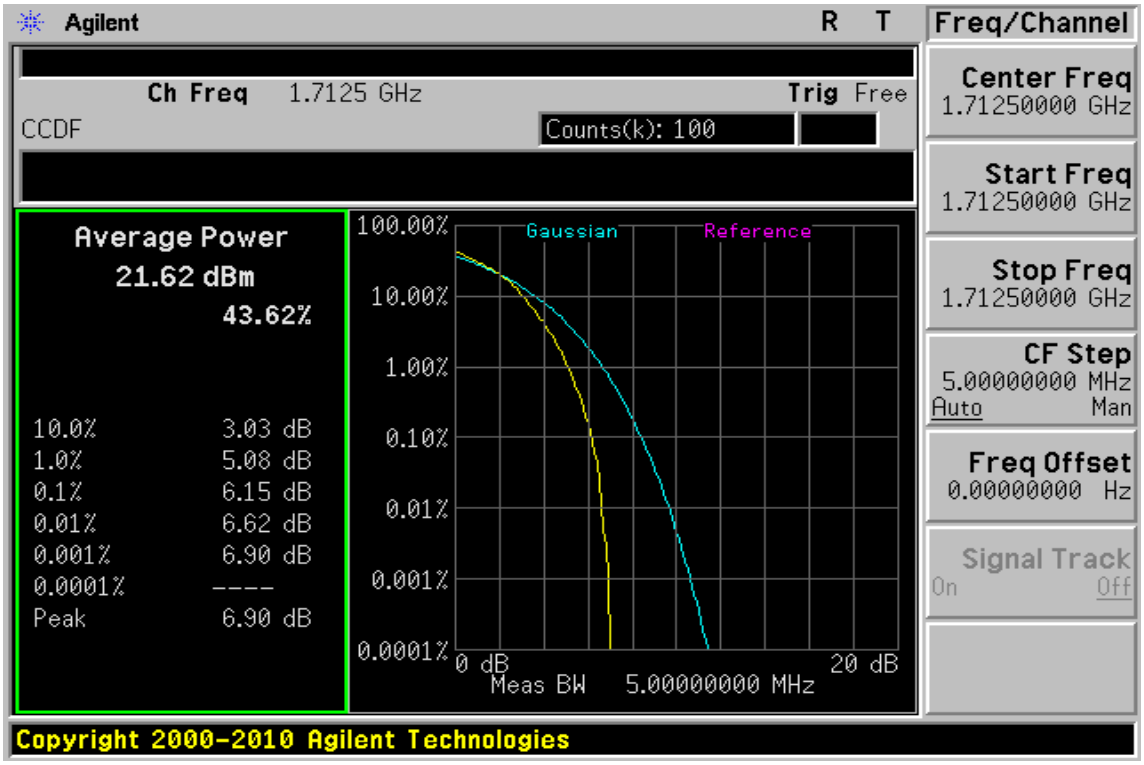
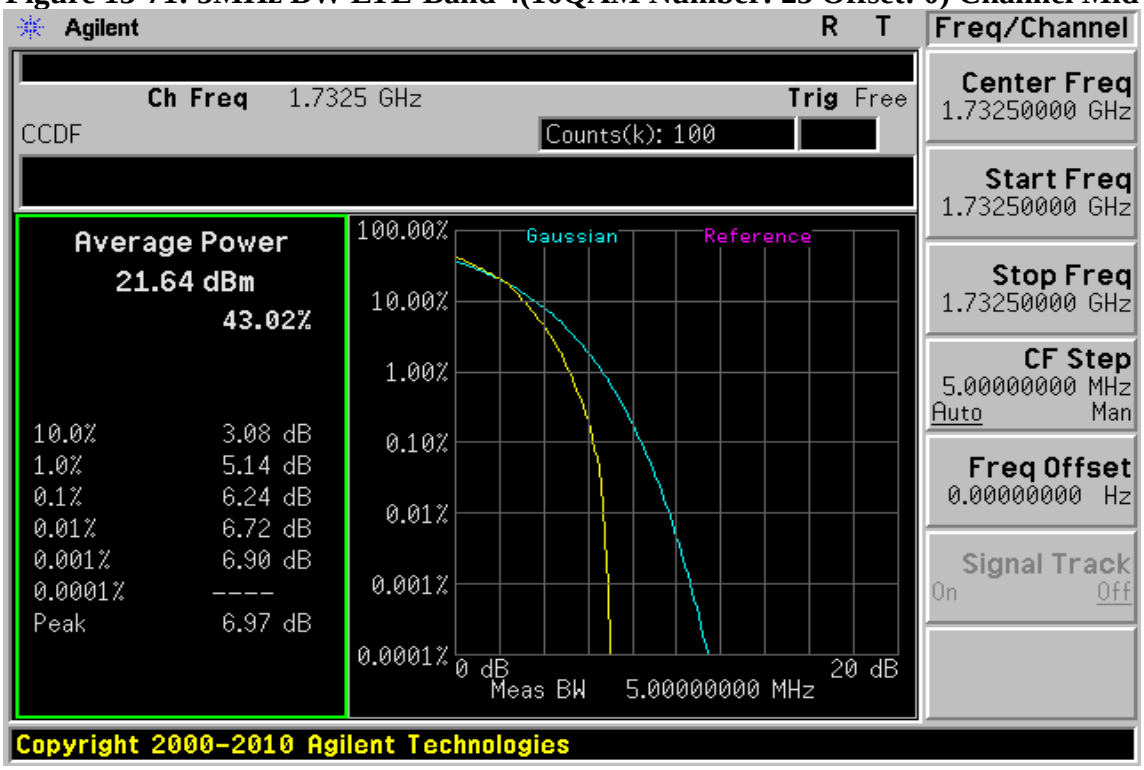


Figure 13-71: 5MHz BW LTE-Band 4(16QAM Number: 25 Offset: 0) Channel Mid



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

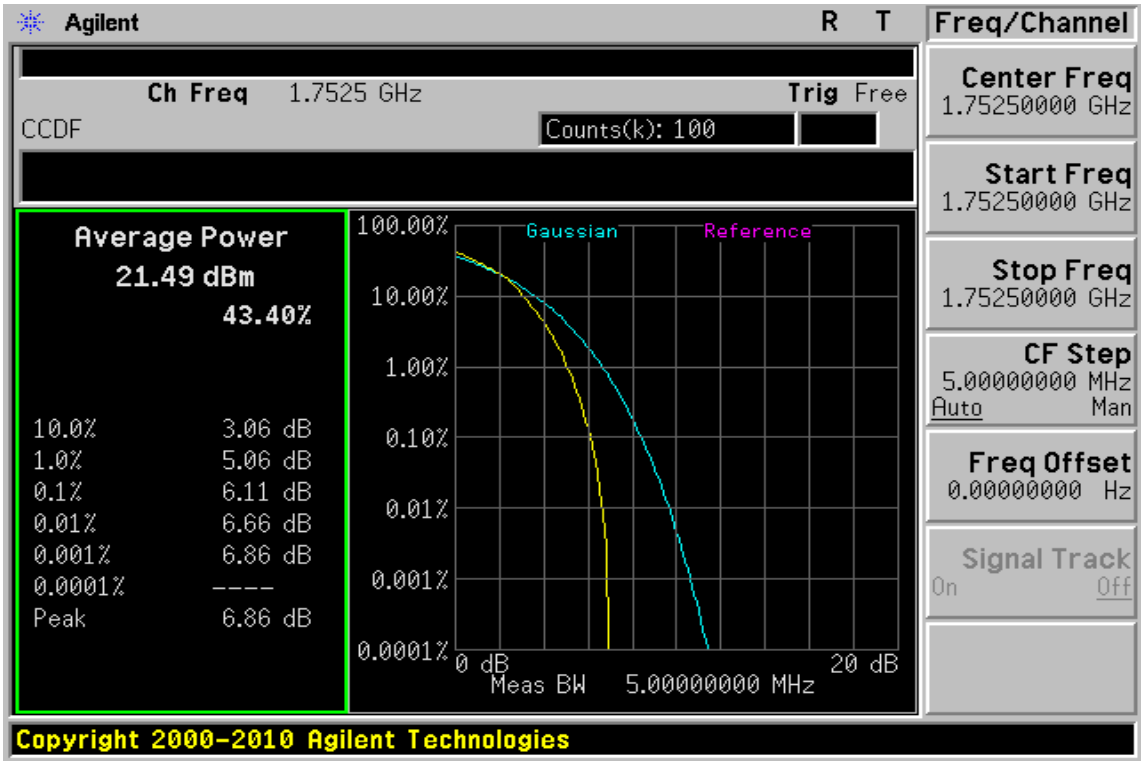
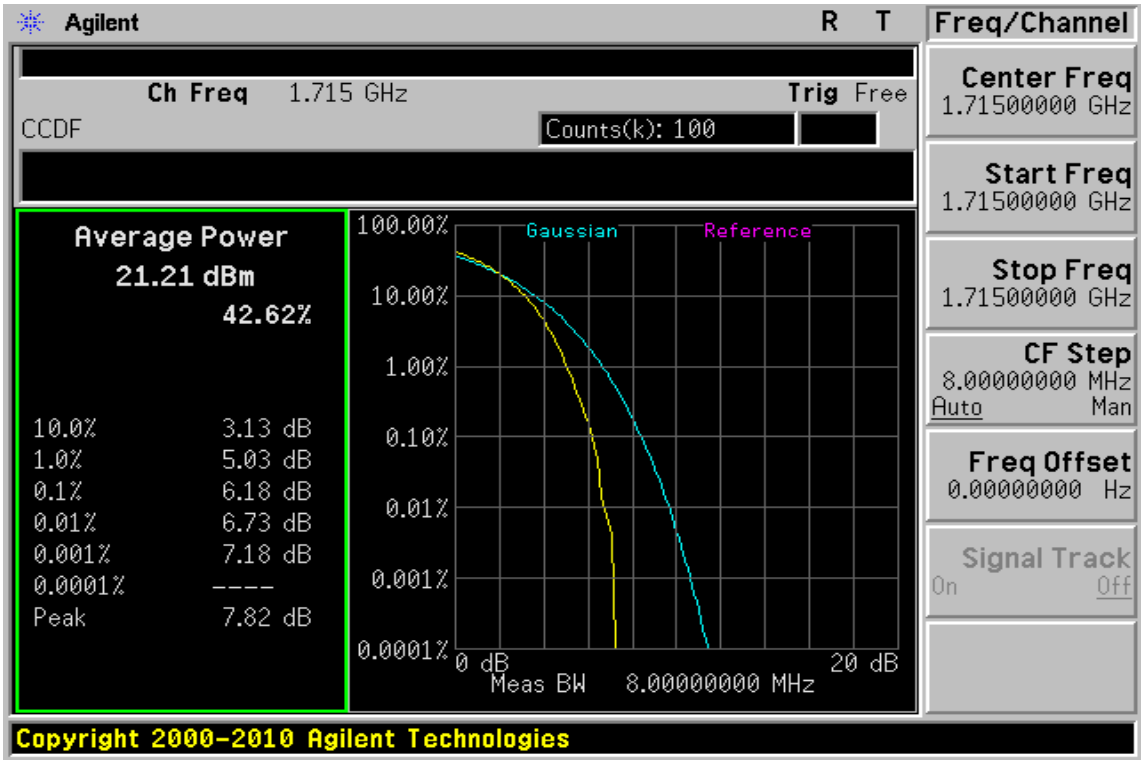


Figure 13-73: 10MHz BW LTE-Band 4(16QAM Number: 50 Offset: 0) Channel Low



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Figure 13-74: 10MHz BW LTE-Band 4(16QAM Number: 50 Offset: 0) Channel Mid

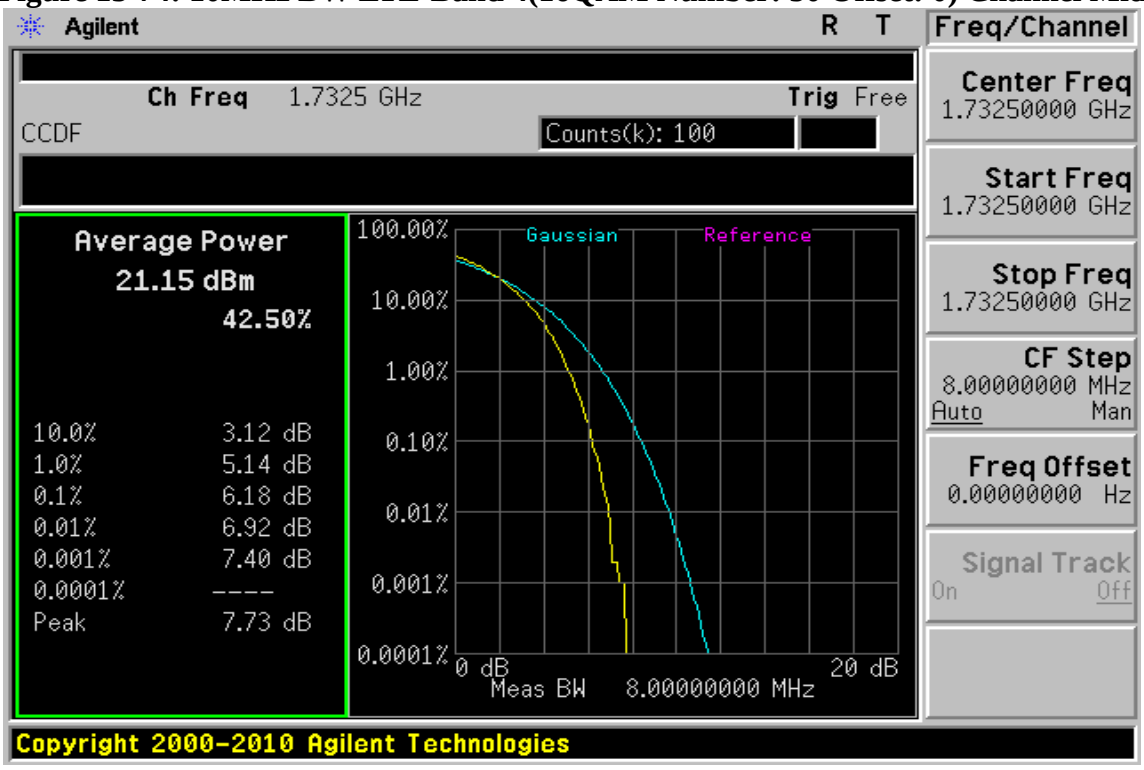
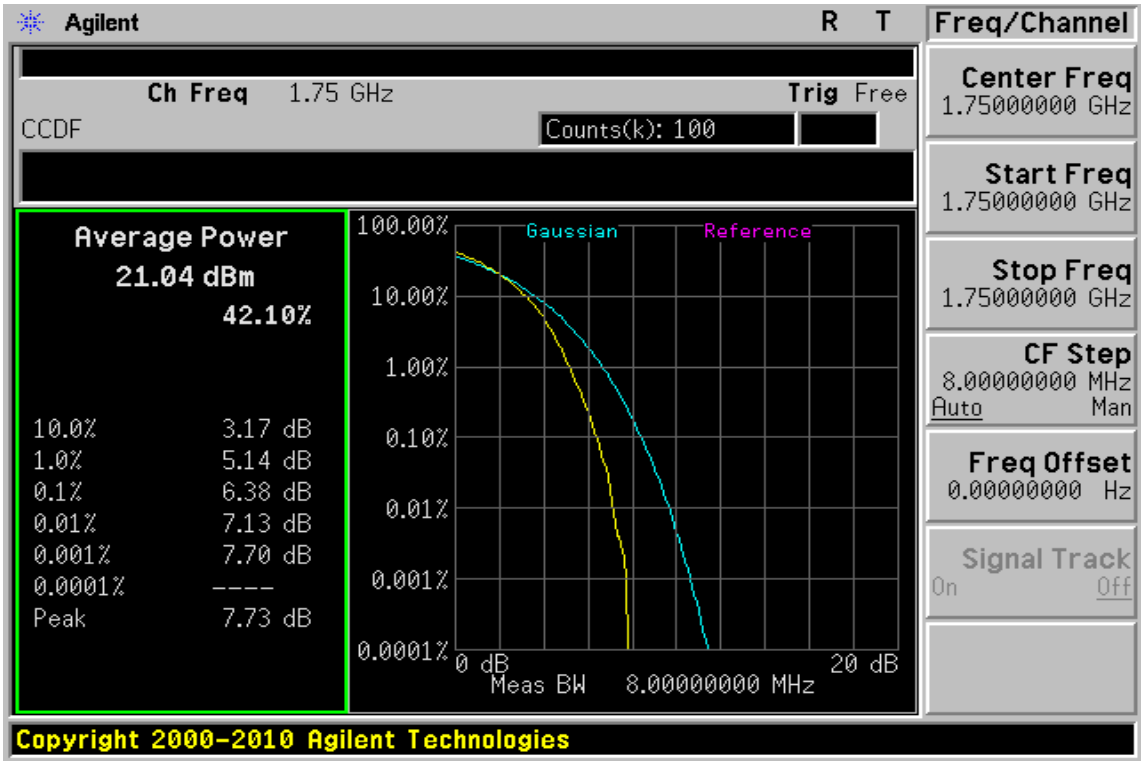


Figure 13-75: 10MHz BW LTE-Band 4(16QAM Number: 50 Offset: 0) Channel High



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Figure 13-76: 15MHz BW LTE-Band 4(16QAM Number: 75 Offset: 0) Channel Low

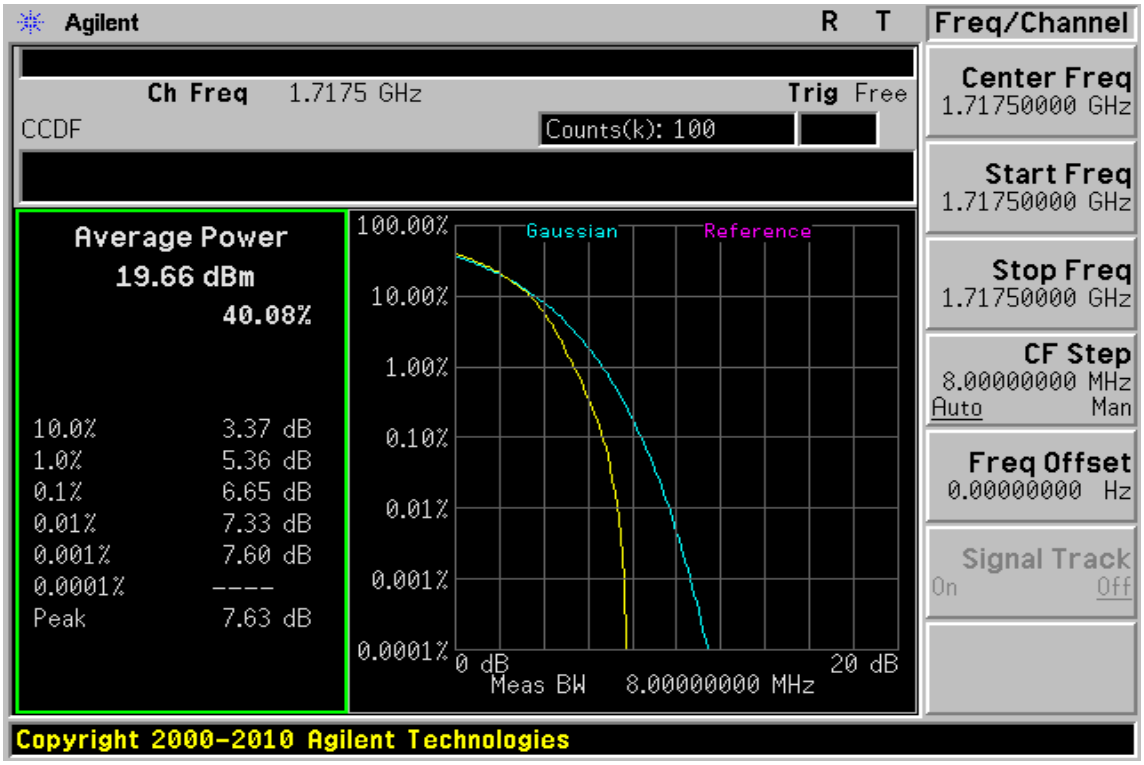
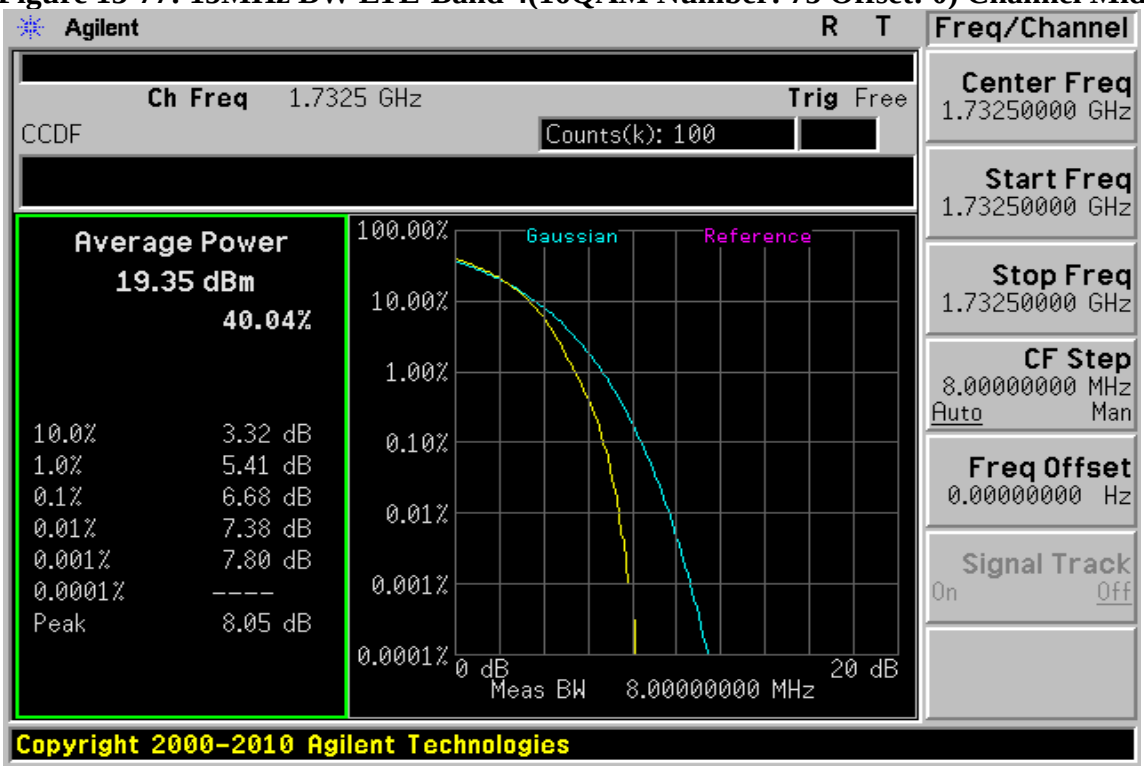


Figure 13-77: 15MHz BW LTE-Band 4(16QAM Number: 75 Offset: 0) Channel Mid



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Figure 13-78: 15MHz BW LTE-Band 4(16QAM Number: 75 Offset: 0) Channel High

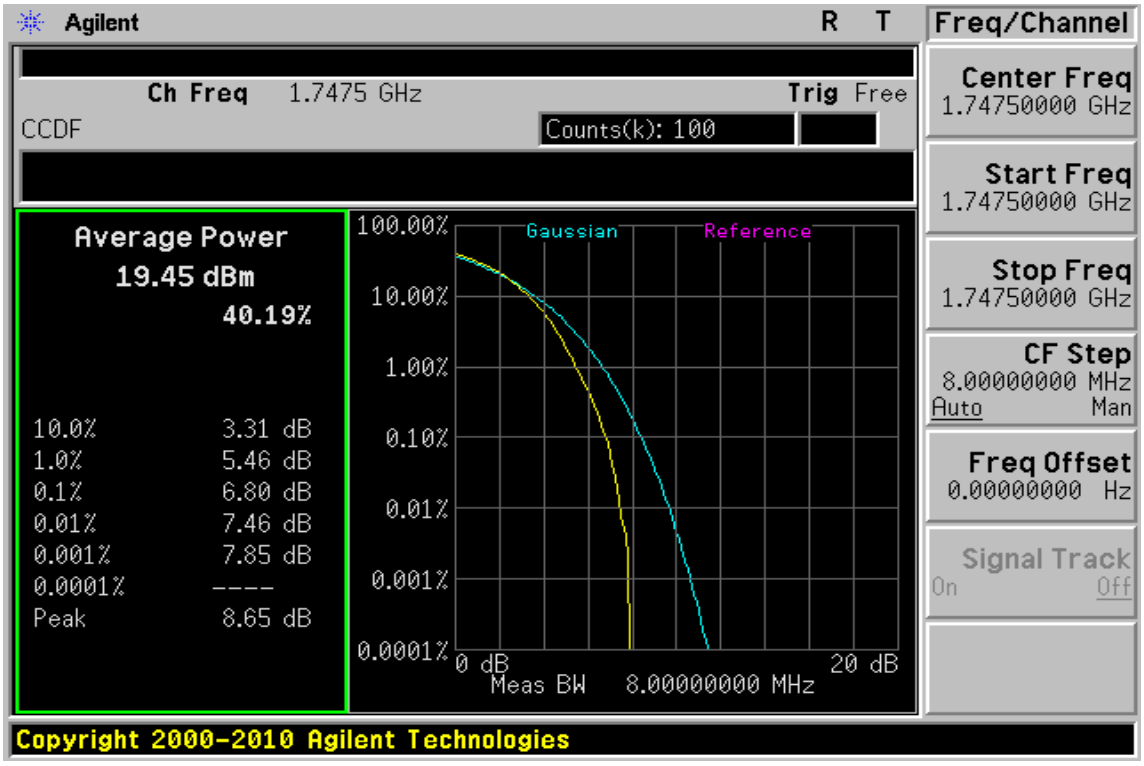
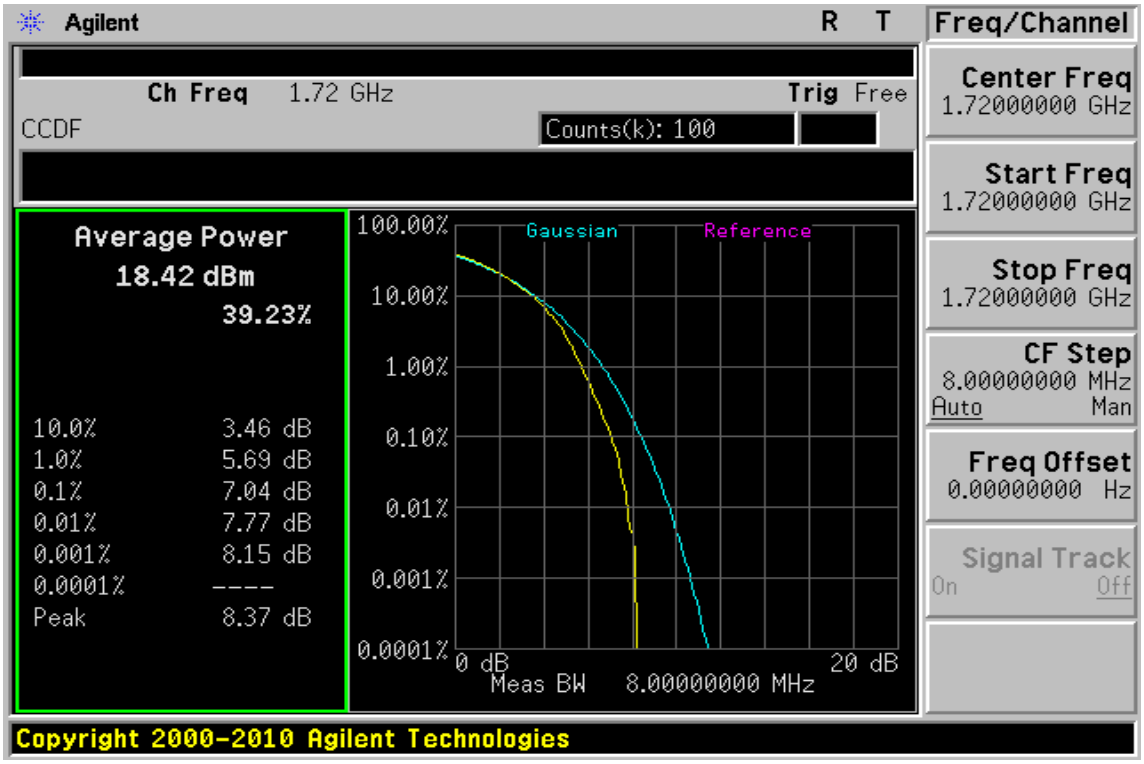


Figure 13-79: 20MHz BW LTE-Band 4(16QAM Number: 100 Offset: 0) Channel Low



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Figure 13-80: 20MHz BW LTE-Band 4(16QAM Number: 100 Offset: 0) Channel Mid

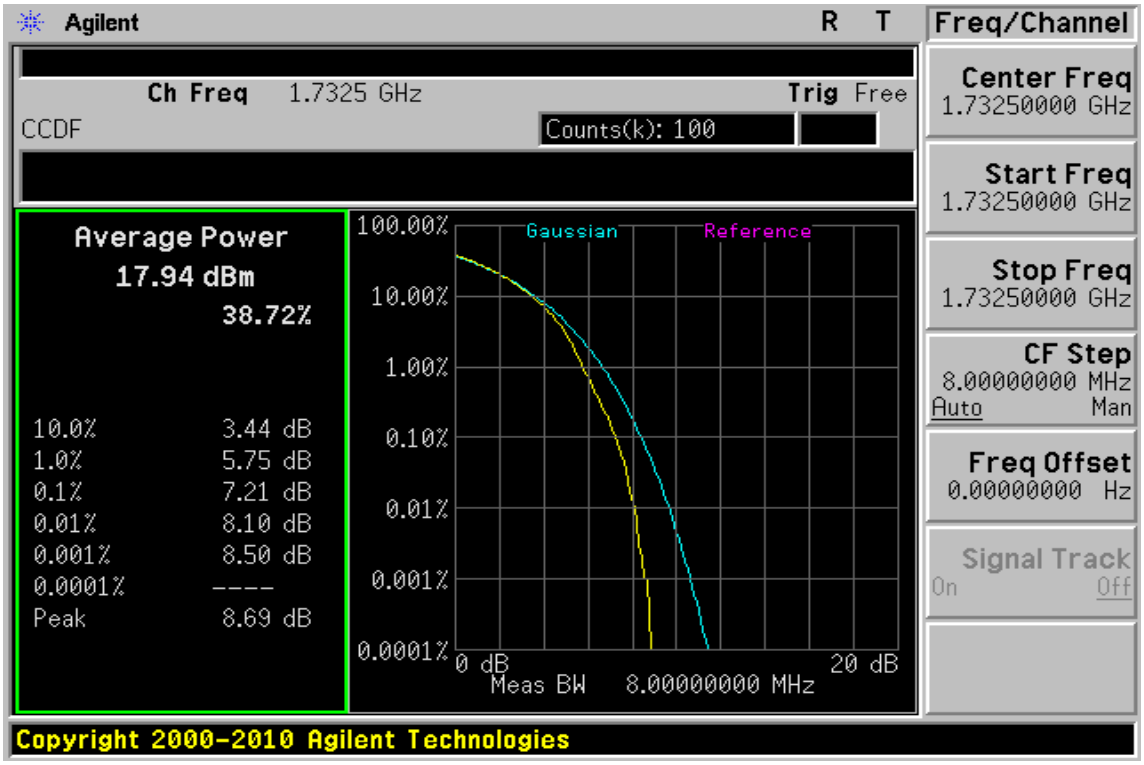
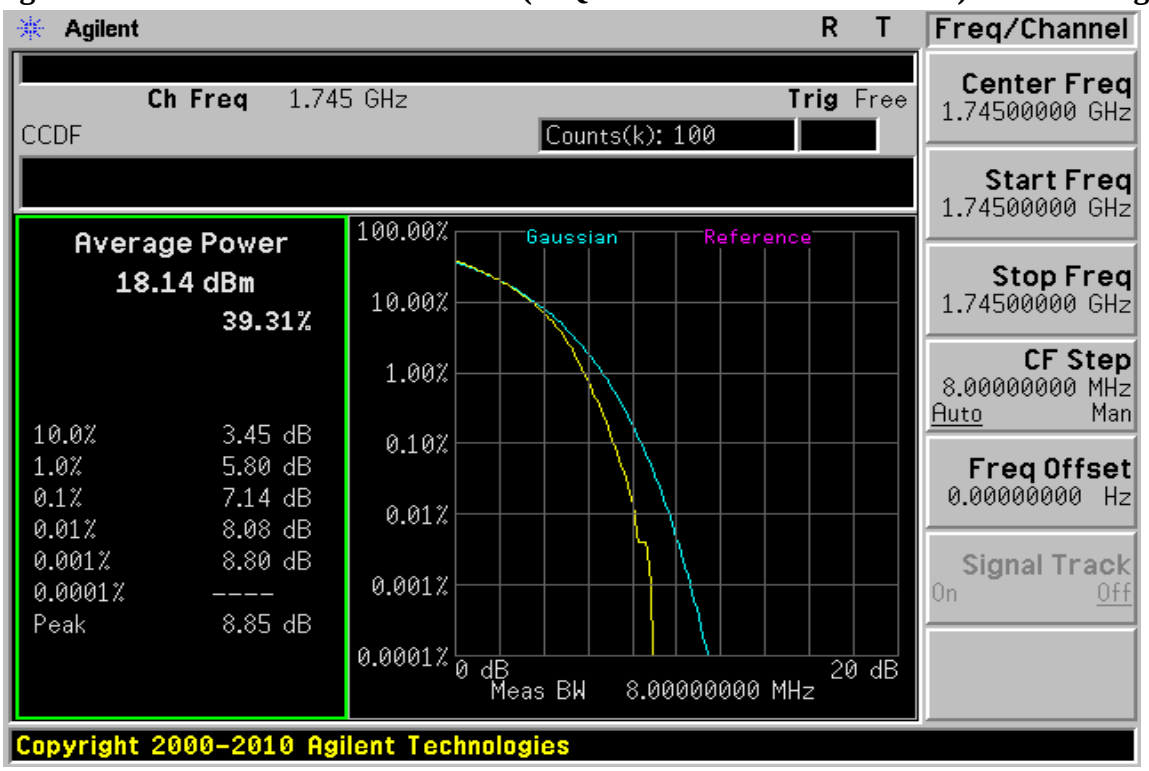


Figure 13-81: 20MHz BW LTE-Band 4(16QAM Number: 100 Offset: 0) Channel High



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Figure 13-82: 1.4MHz BW LTE-Band 5(16QAM Number: 6 Offset: 0) Channel Low

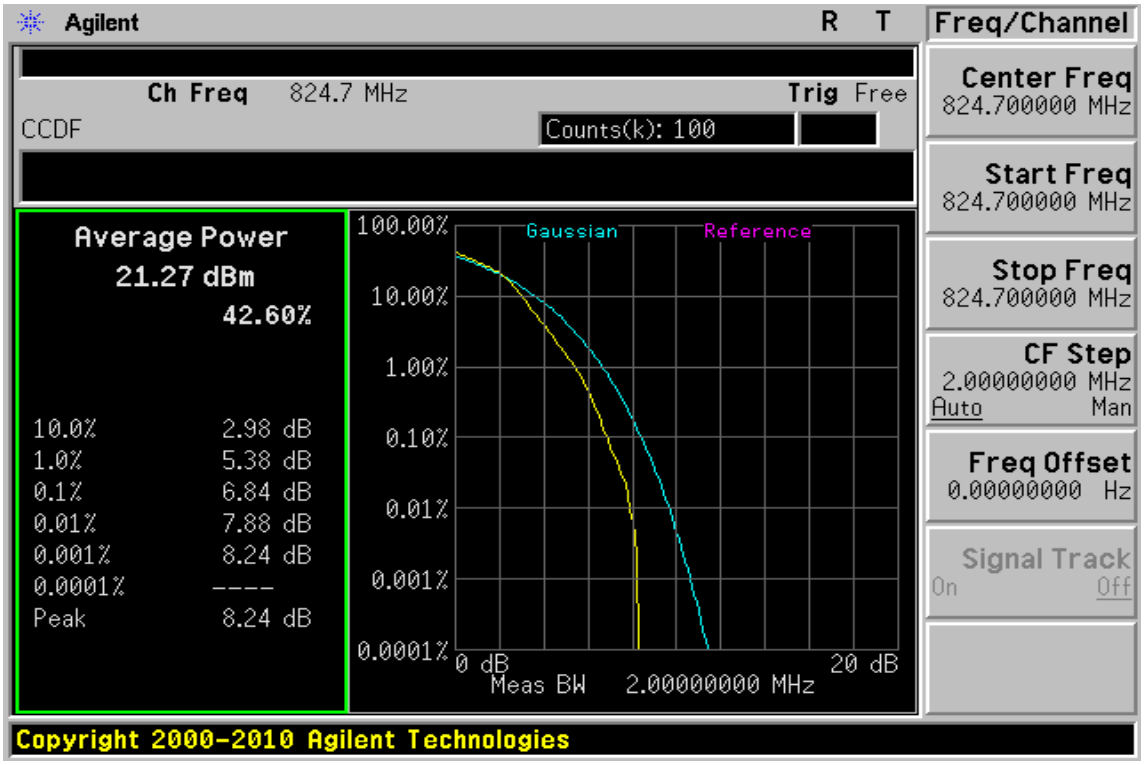
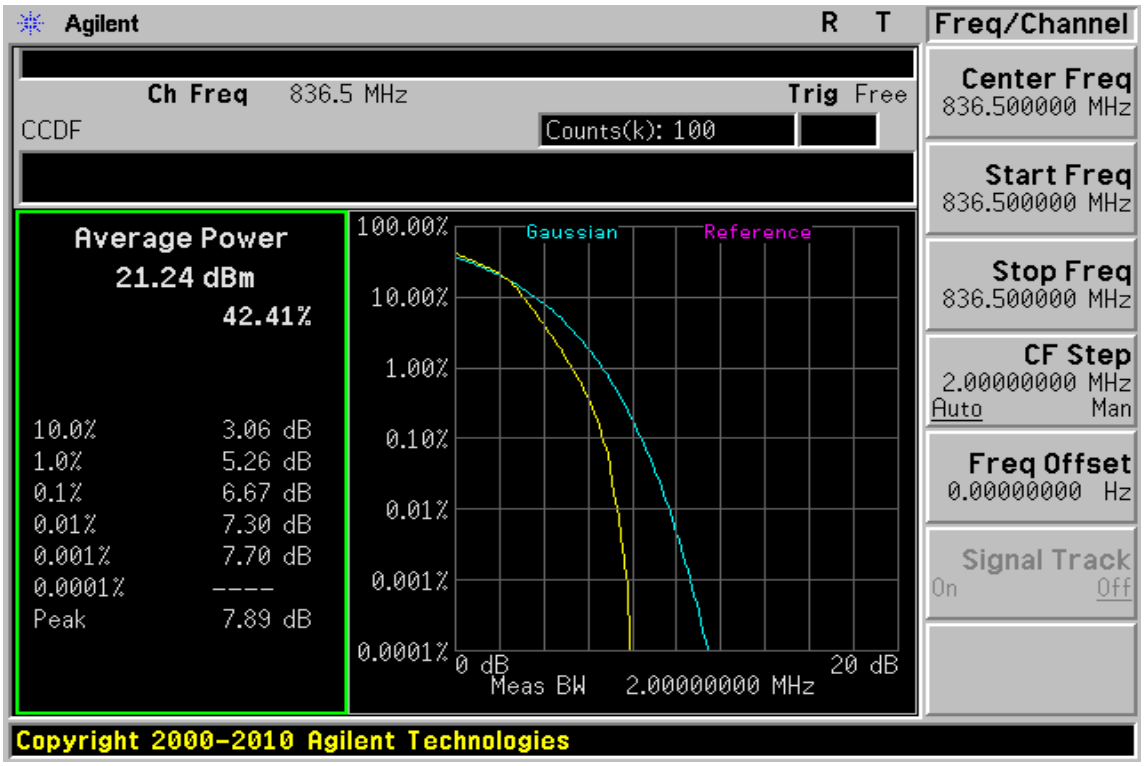


Figure 13-83: 1.4MHz BW LTE-Band 5(16QAM Number: 6 Offset: 0) Channel Mid



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Figure 13-84: 1.4MHz BW LTE-Band 5(16QAM Number: 6 Offset: 0) Channel High

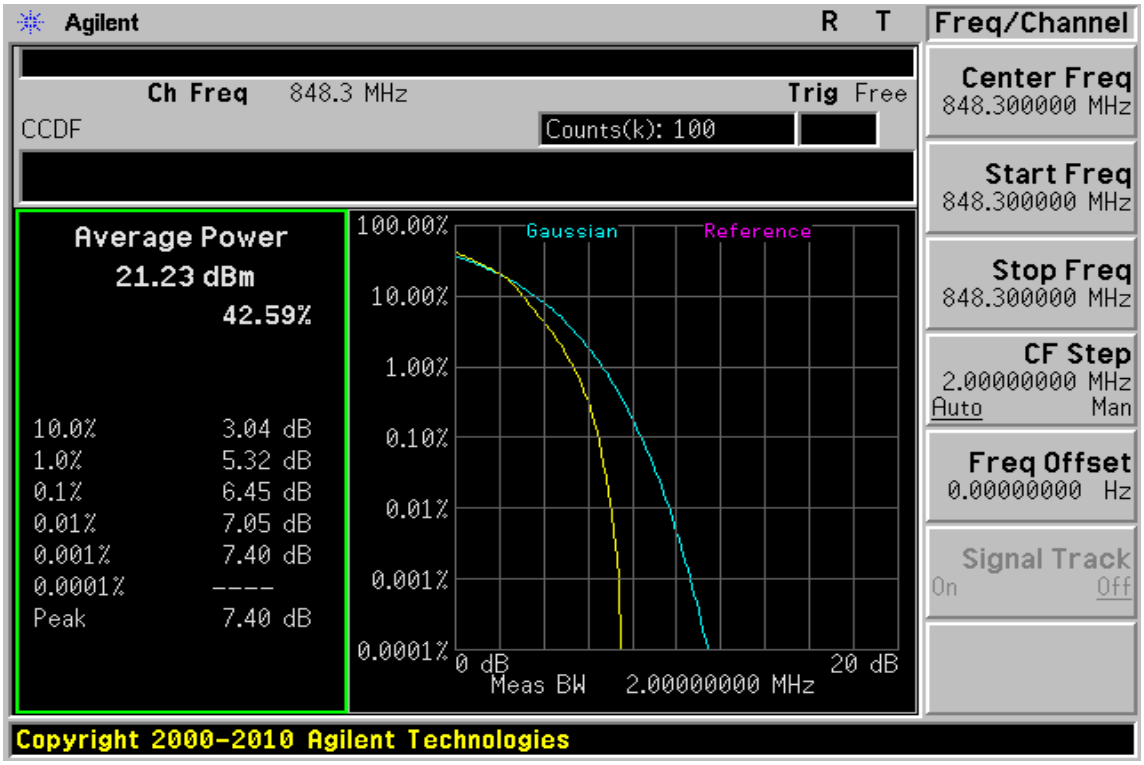
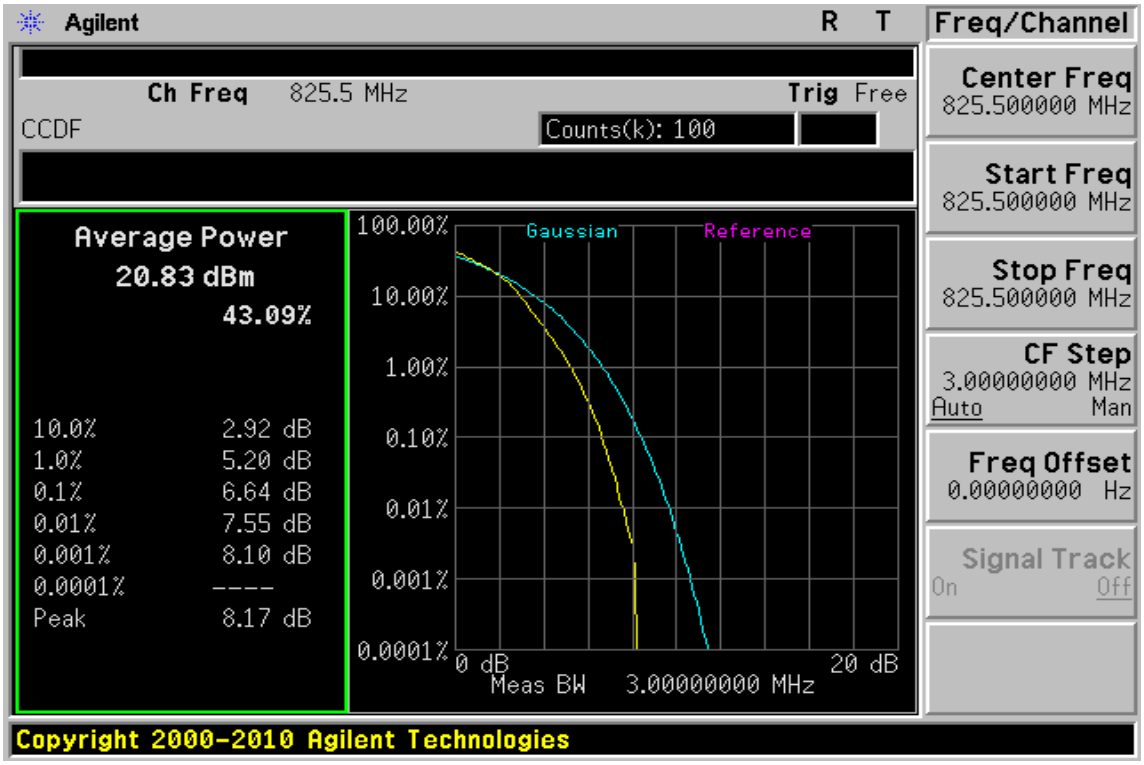


Figure 13-85: 3MHz BW LTE-Band 5(16QAM Number: 15 Offset: 0) Channel Low



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Figure 13-86: 3MHz BW LTE-Band 5(16QAM Number: 15 Offset: 0) Channel Mid

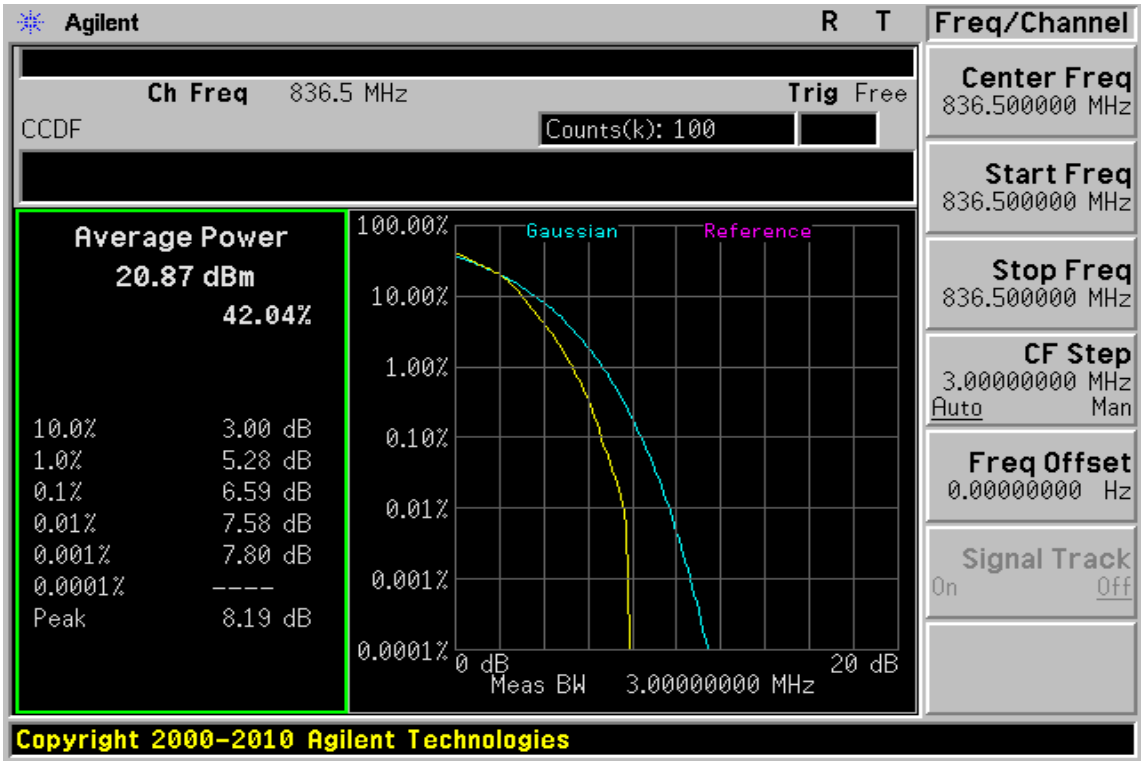
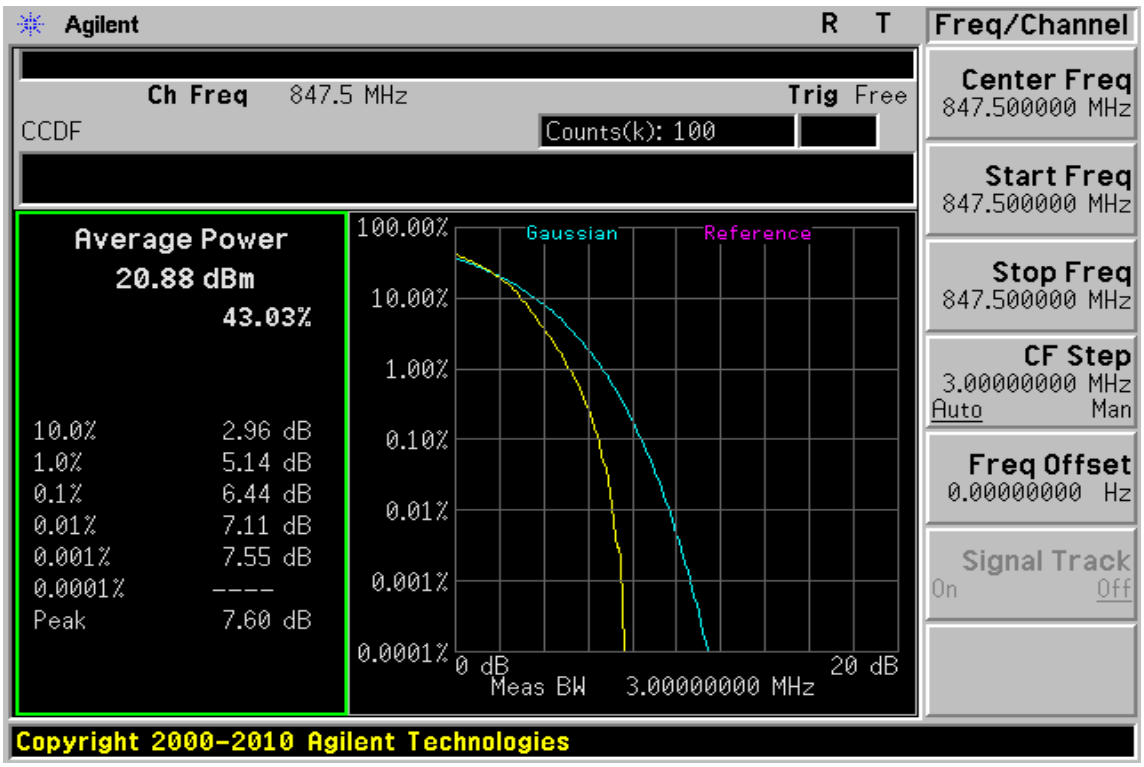


Figure 13-87: 3MHz BW LTE-Band 5(16QAM Number: 15 Offset: 0) Channel High



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Figure 13-88: 5MHz BW LTE-Band 5(16QAM Number: 25 Offset: 0) Channel Low

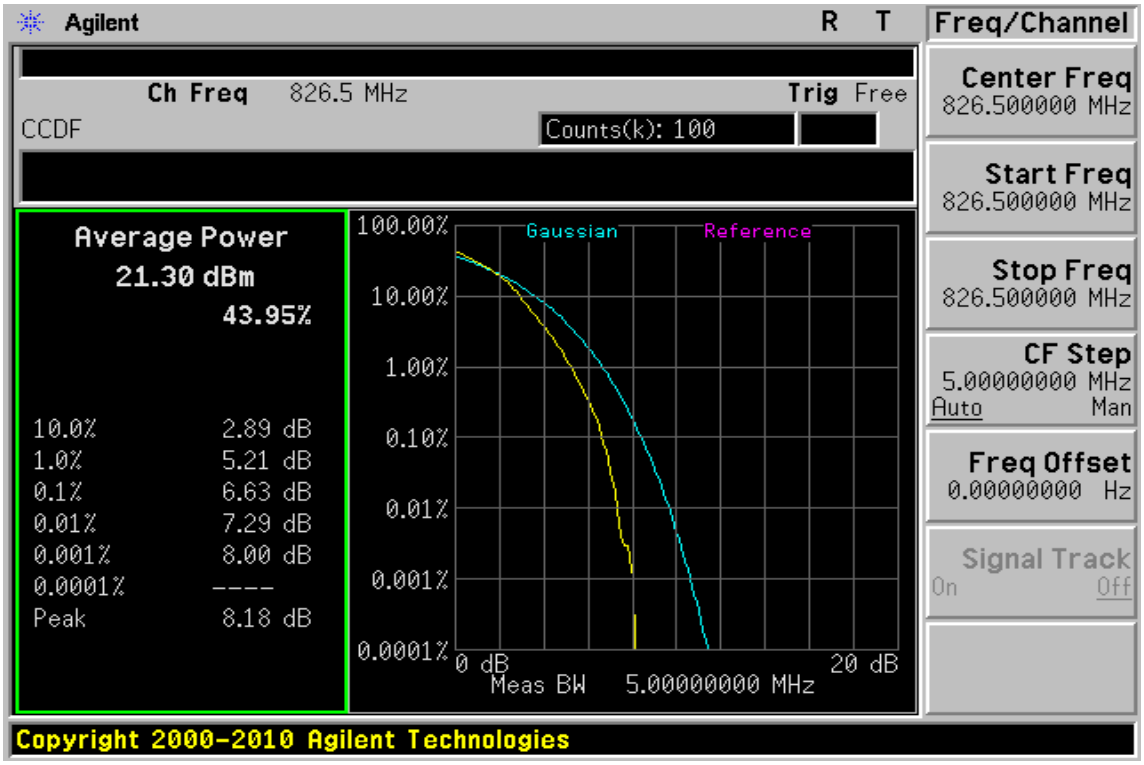
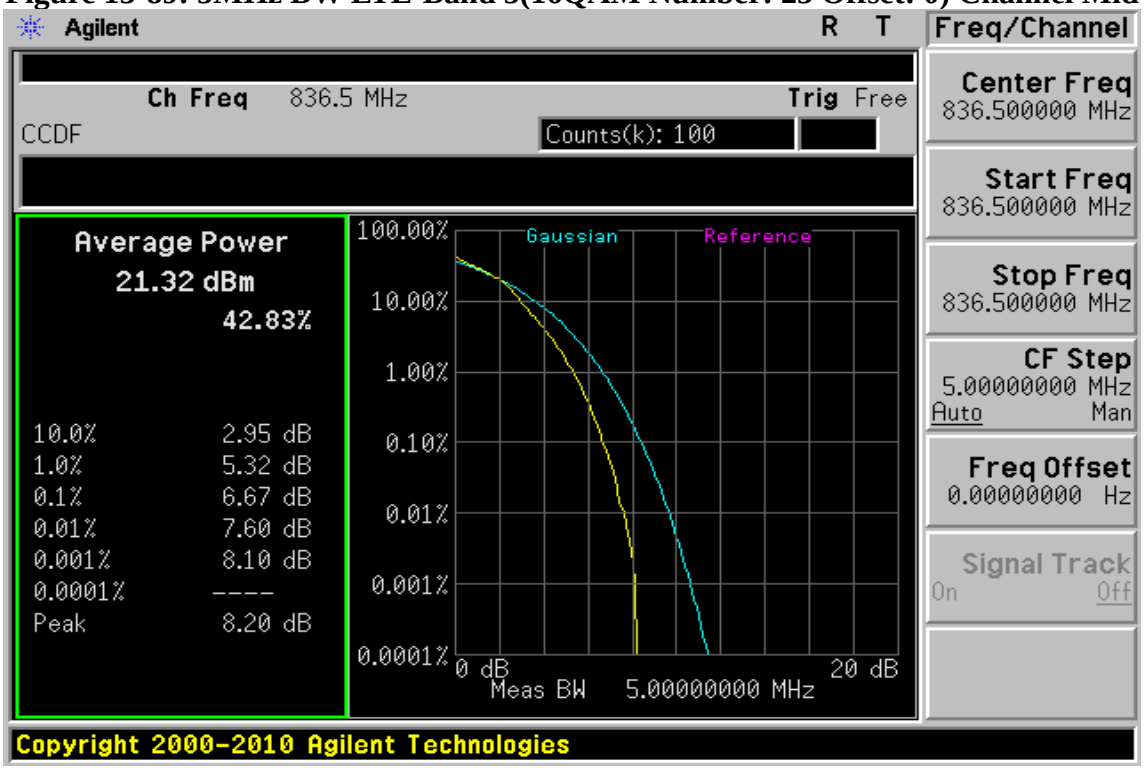


Figure 13-89: 5MHz BW LTE-Band 5(16QAM Number: 25 Offset: 0) Channel Mid



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Figure 13-90: 5MHz BW LTE-Band 5(16QAM Number: 25 Offset: 0) Channel High

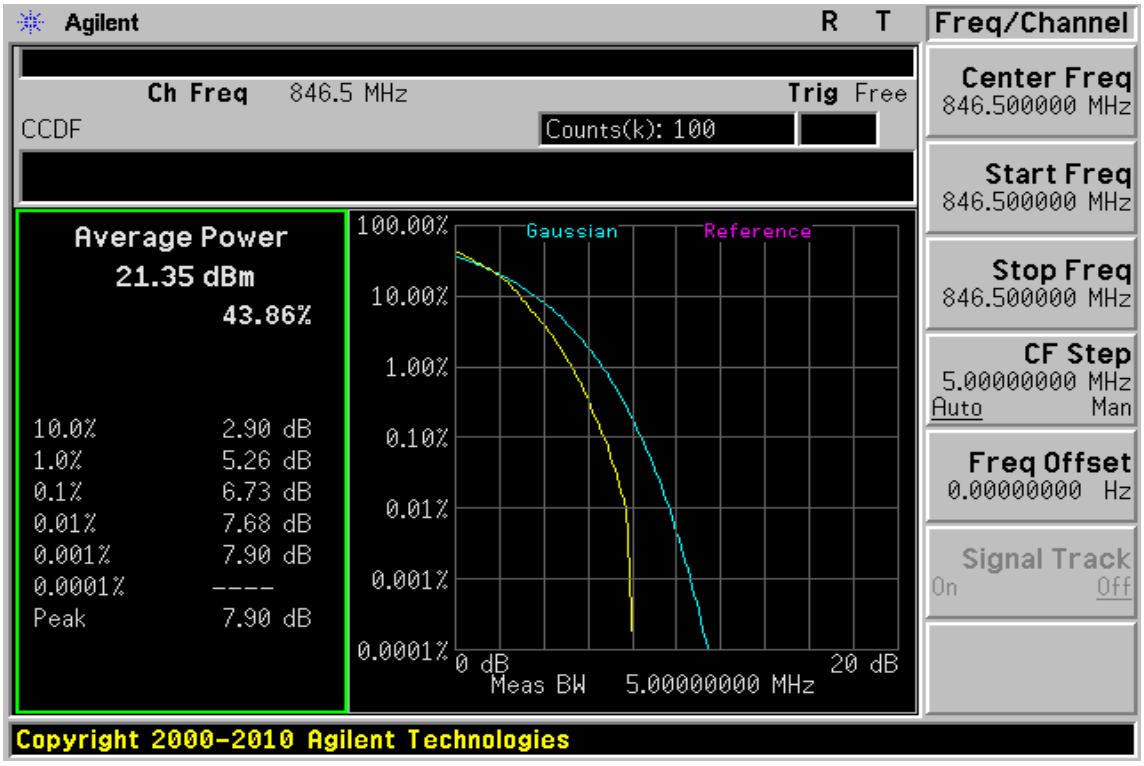
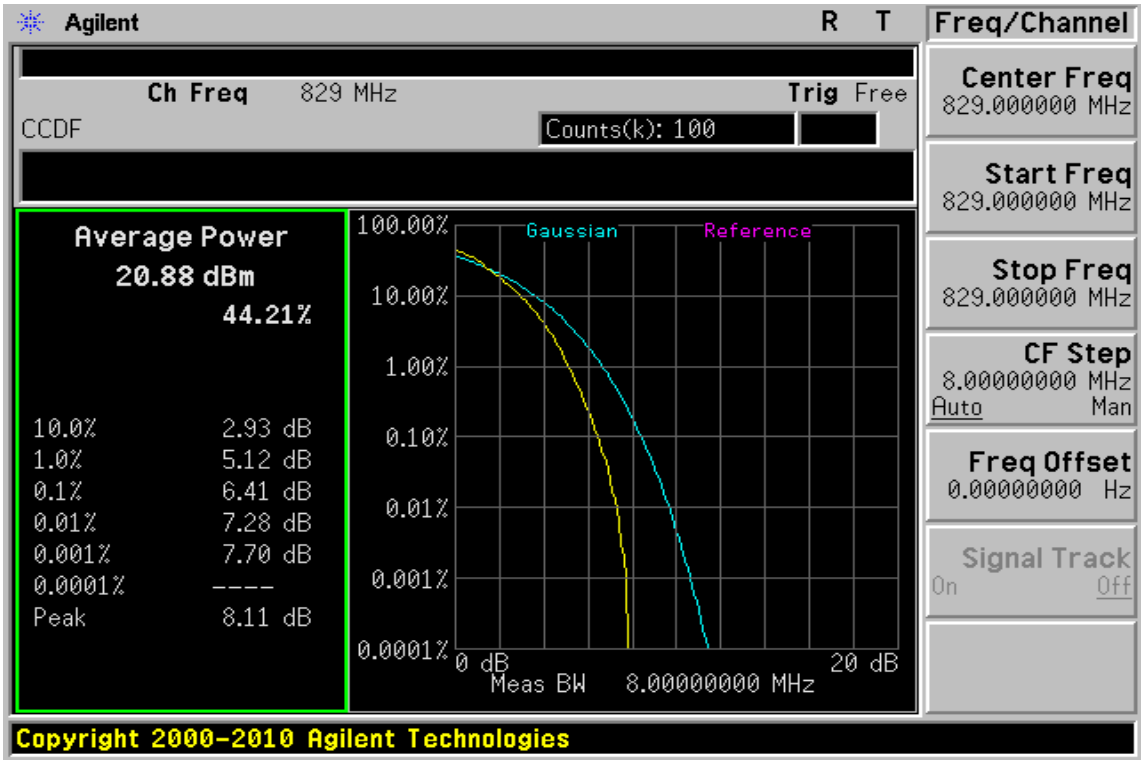


Figure 13-91: 10MHz BW LTE-Band 5(16QAM Number: 50 Offset: 0) Channel Low



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Figure 13-92: 10MHz BW LTE-Band 5(16QAM Number: 50 Offset: 0) Channel Mid

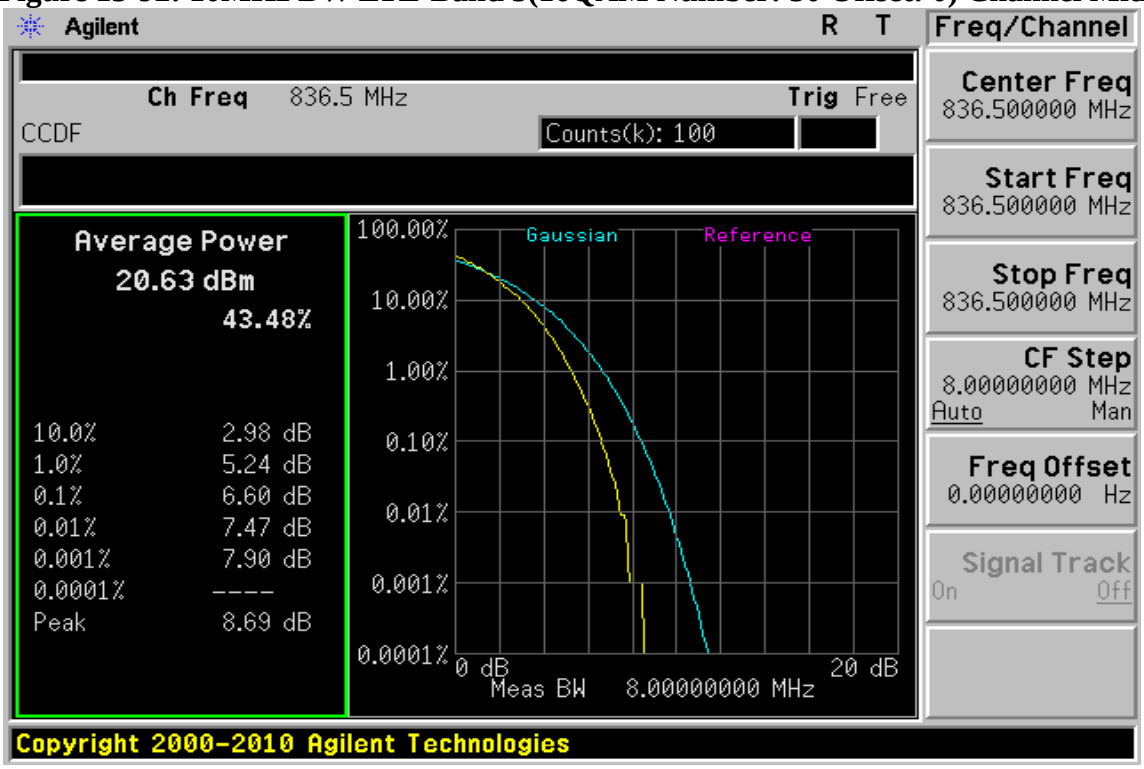
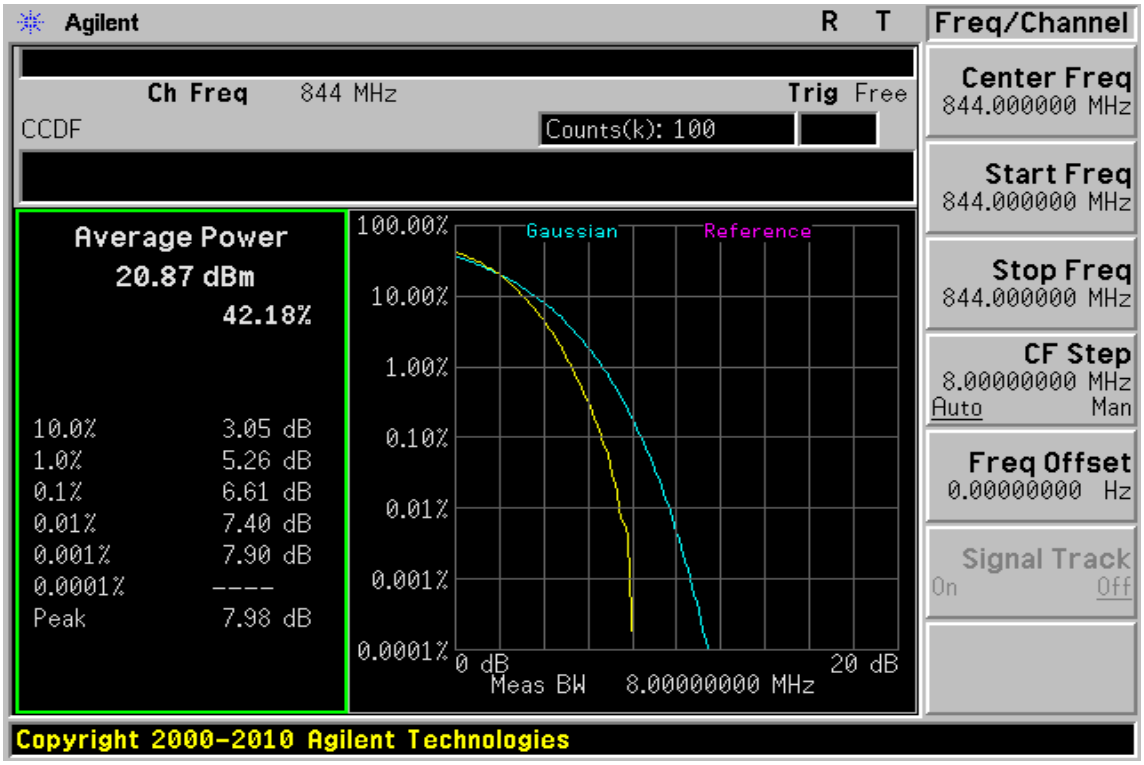


Figure 13-93: 10MHz BW LTE-Band 5(16QAM Number: 50 Offset: 0) Channel High



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

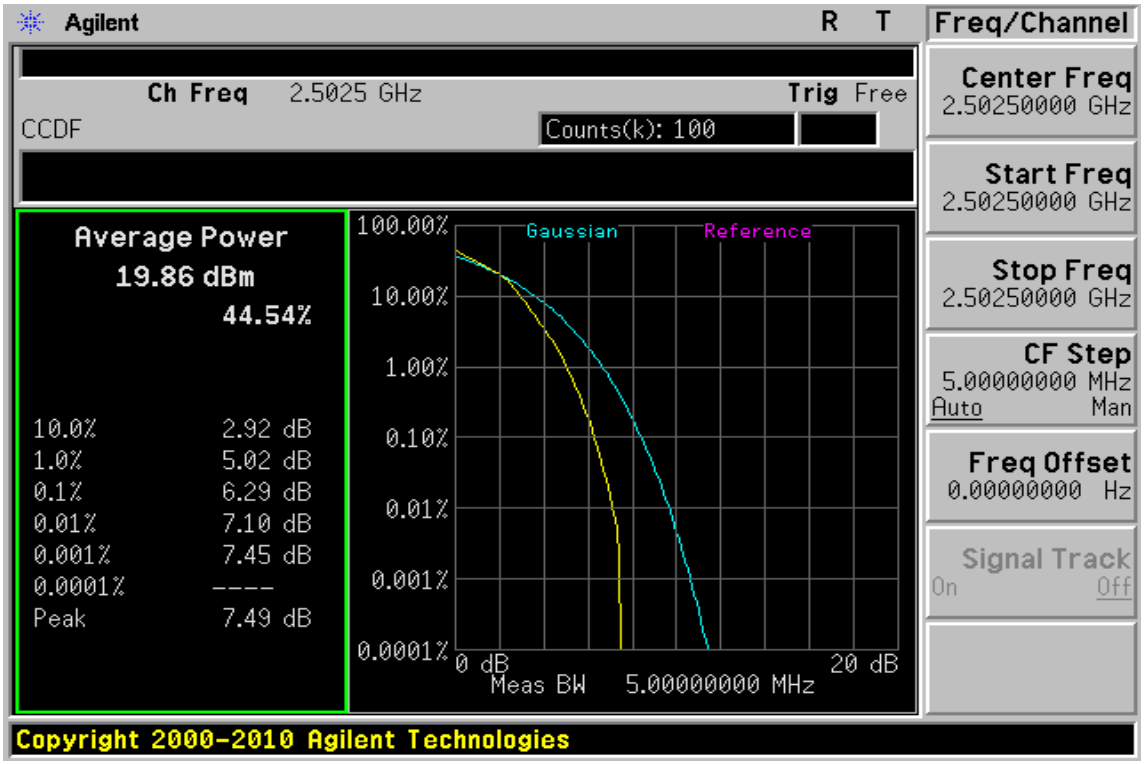
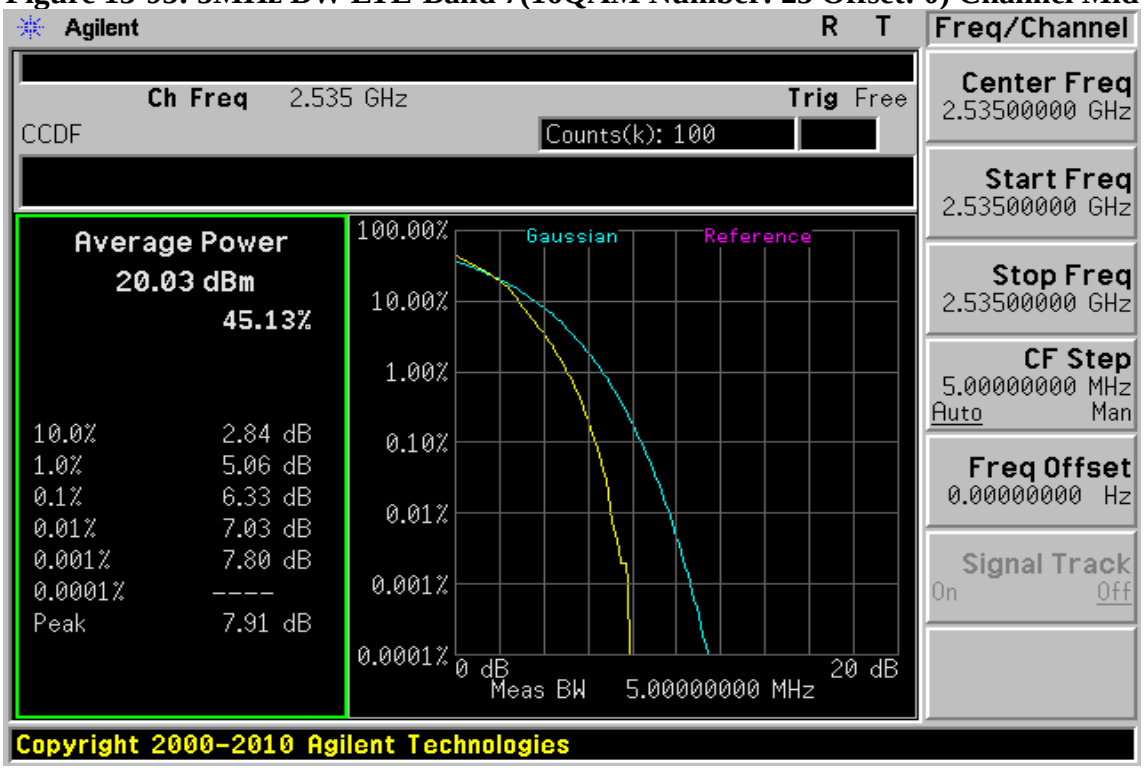


Figure 13-95: 5MHz BW LTE-Band 7(16QAM Number: 25 Offset: 0) Channel Mid



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

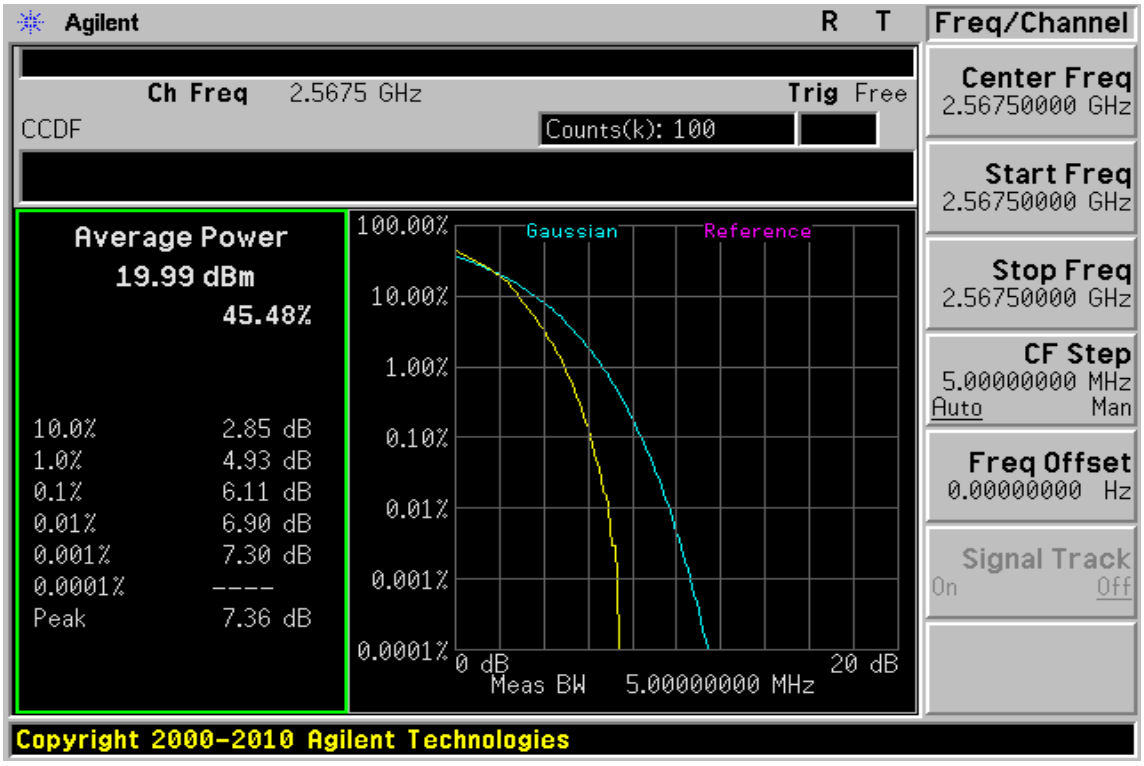
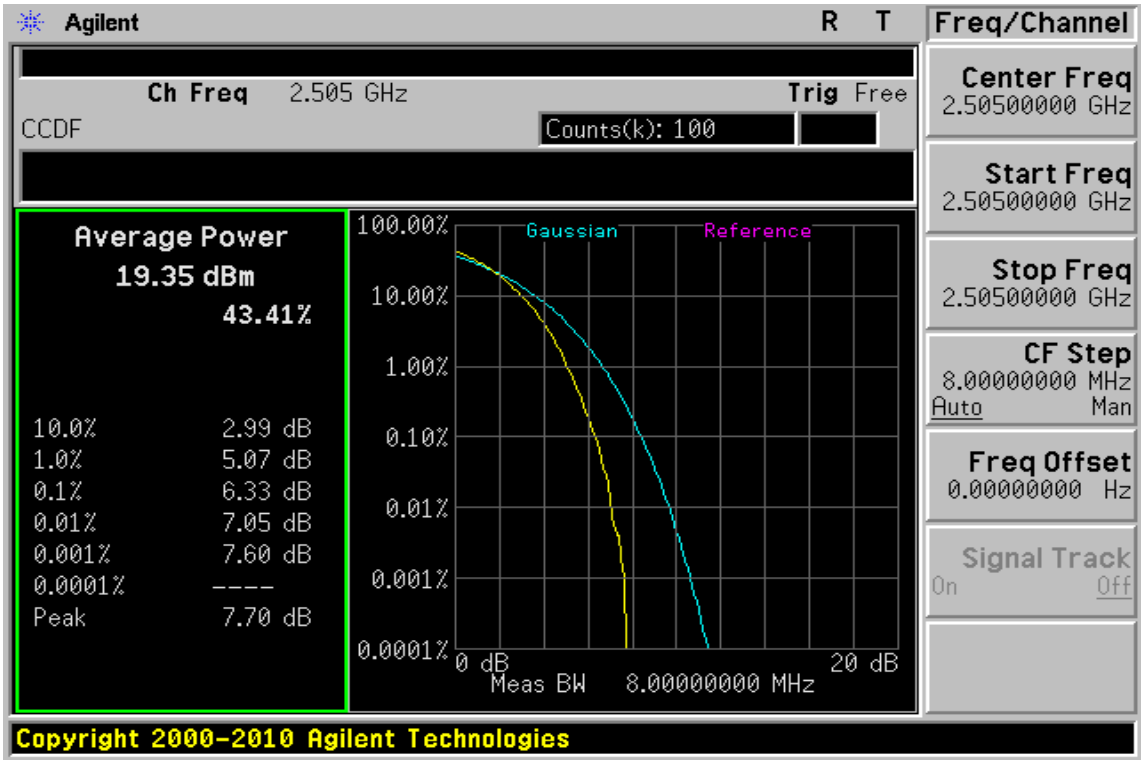


Figure 13-97: 10MHz BW LTE-Band 7(16QAM Number: 50 Offset: 0) Channel Low



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Figure 13-98: 10MHz BW LTE-Band 7(16QAM Number: 50 Offset: 0) Channel Mid

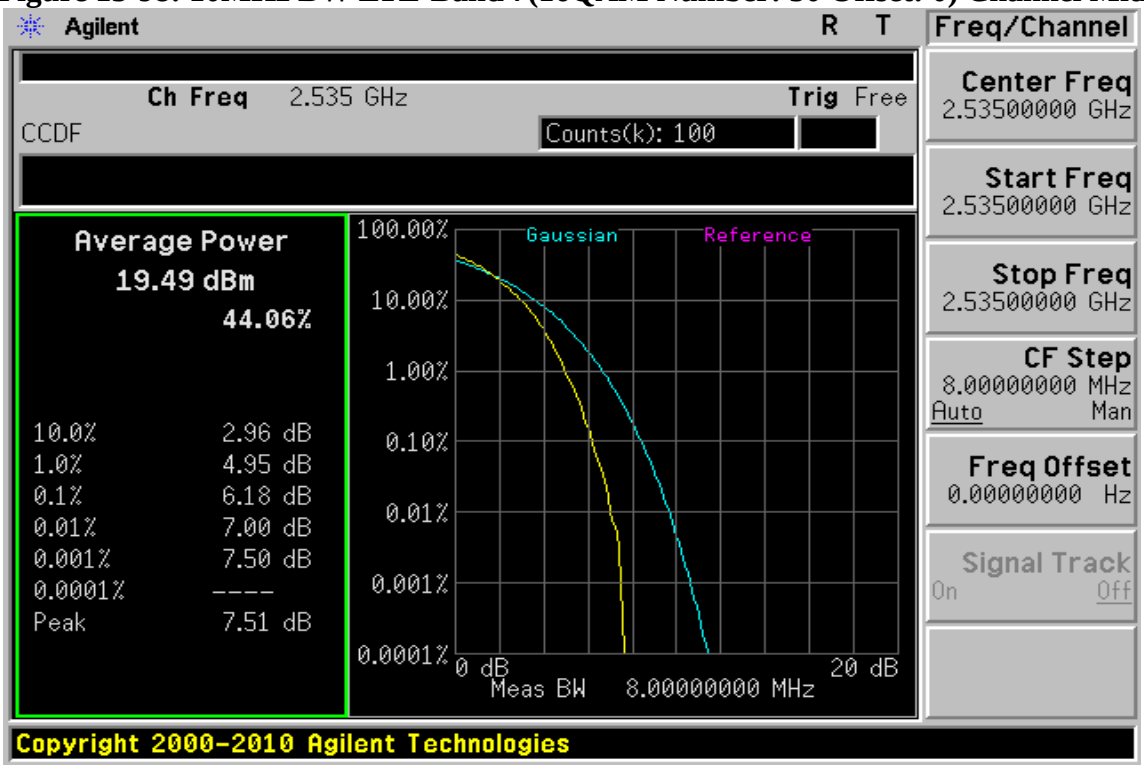
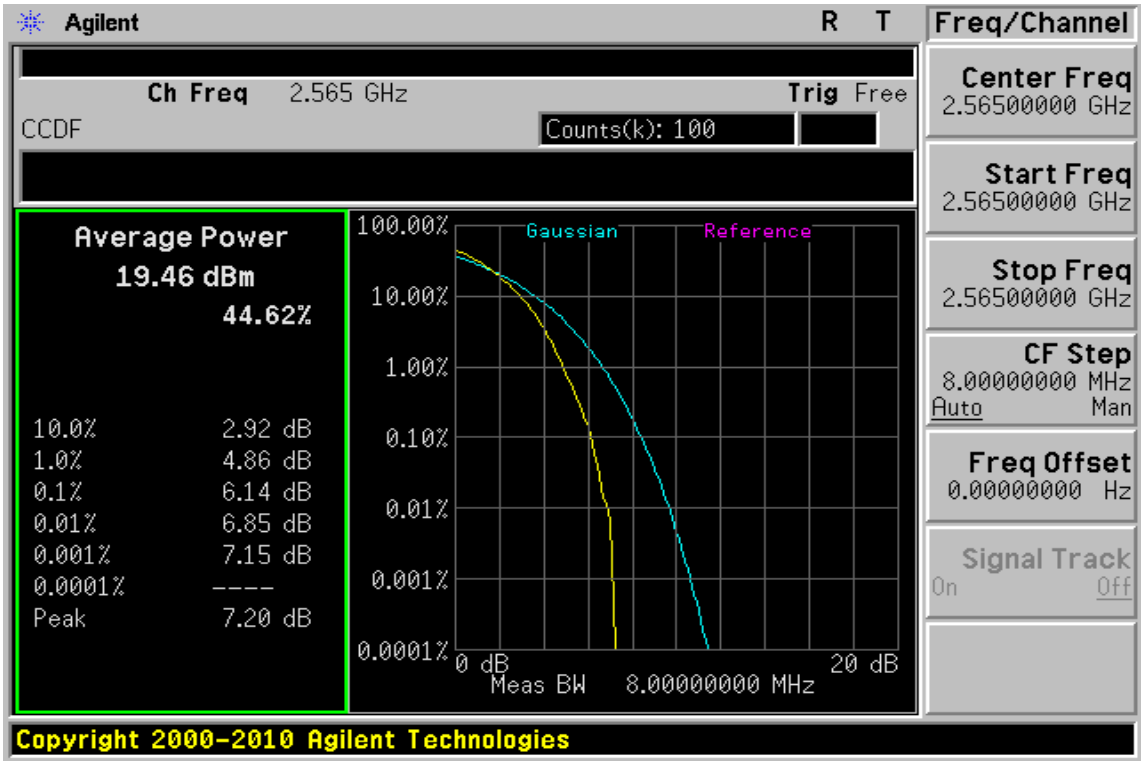


Figure 13-99: 10MHz BW LTE-Band 7(16QAM Number: 50 Offset: 0) Channel High



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Figure 13-100: 15MHz BW LTE-Band 7(16QAM Number: 75 Offset: 0) Channel Low

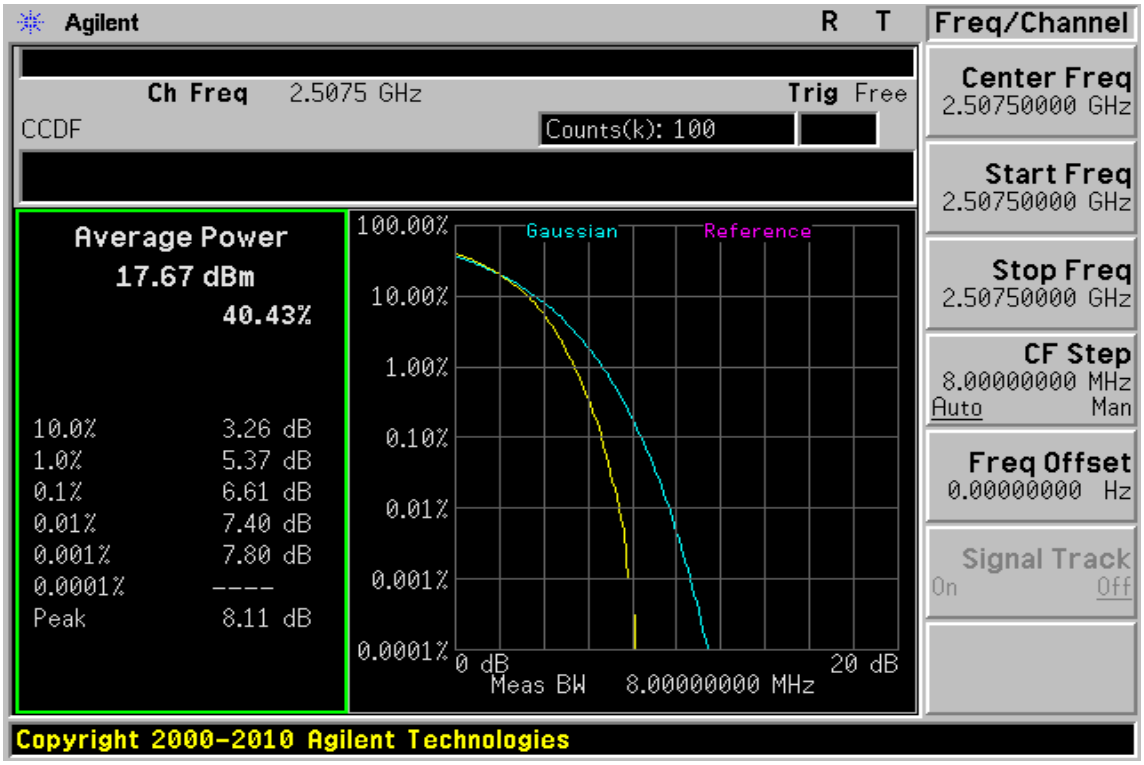
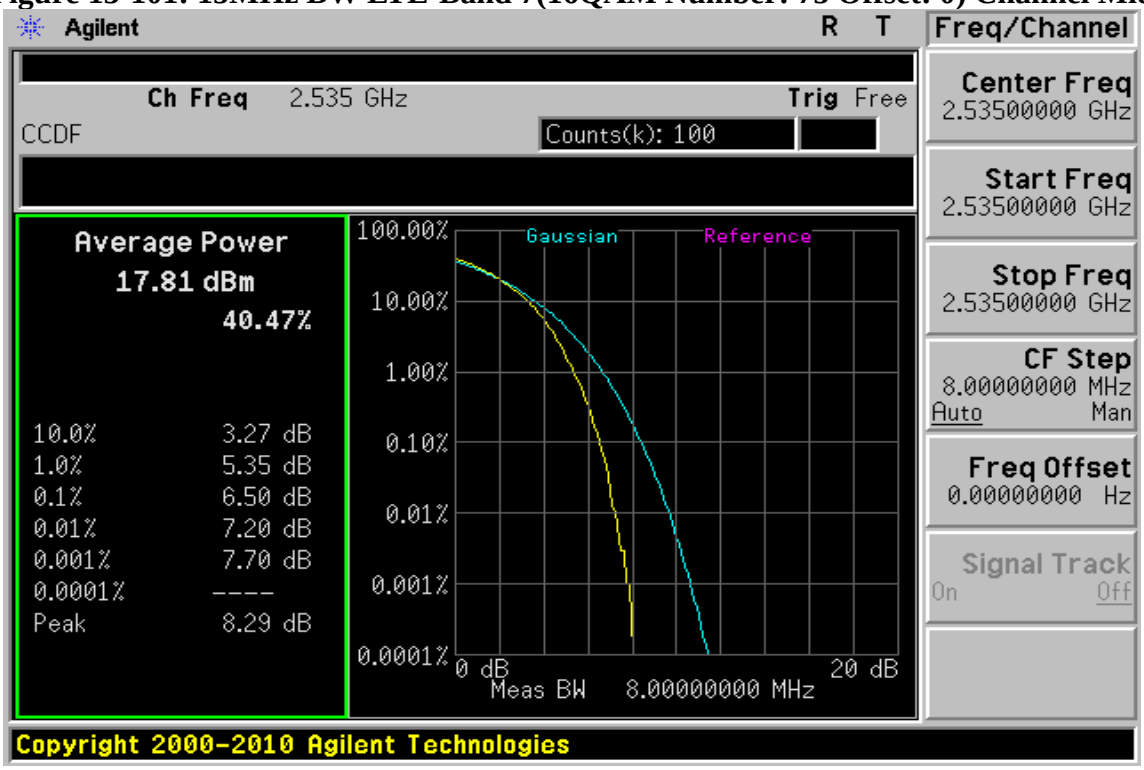


Figure 13-101: 15MHz BW LTE-Band 7(16QAM Number: 75 Offset: 0) Channel Mid



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Figure 13-102: 15MHz BW LTE-Band 7(16QAM Number: 75 Offset: 0) Channel High

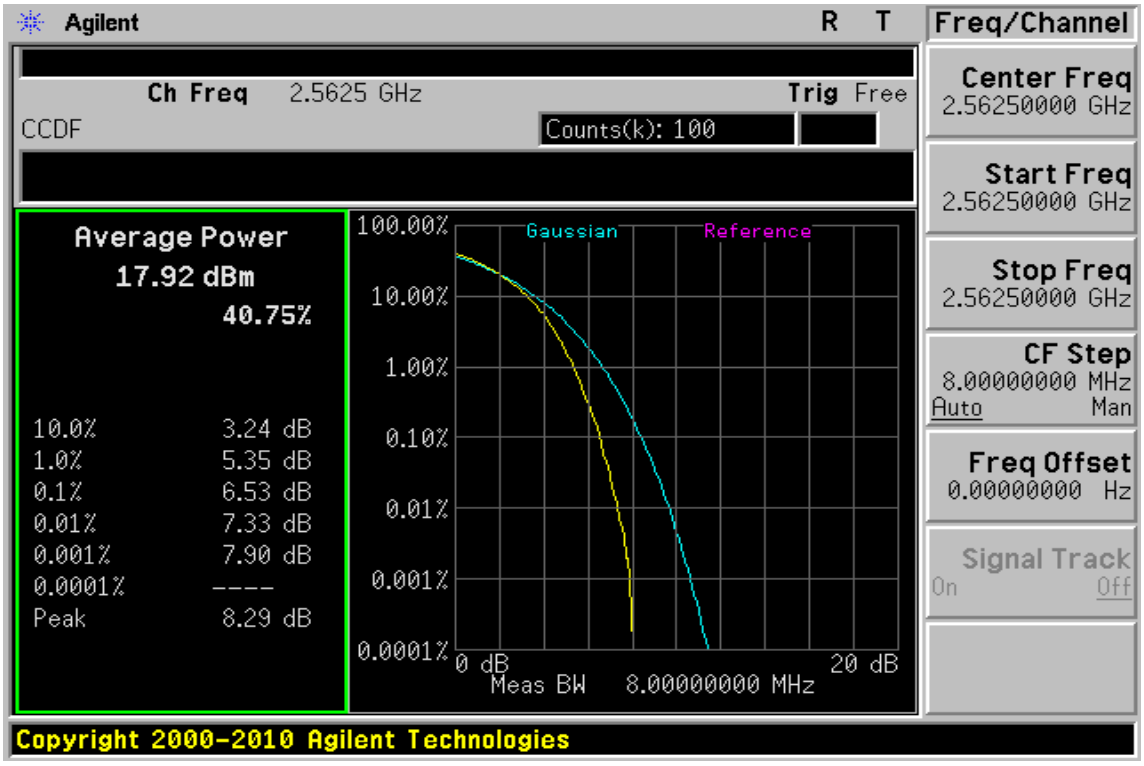
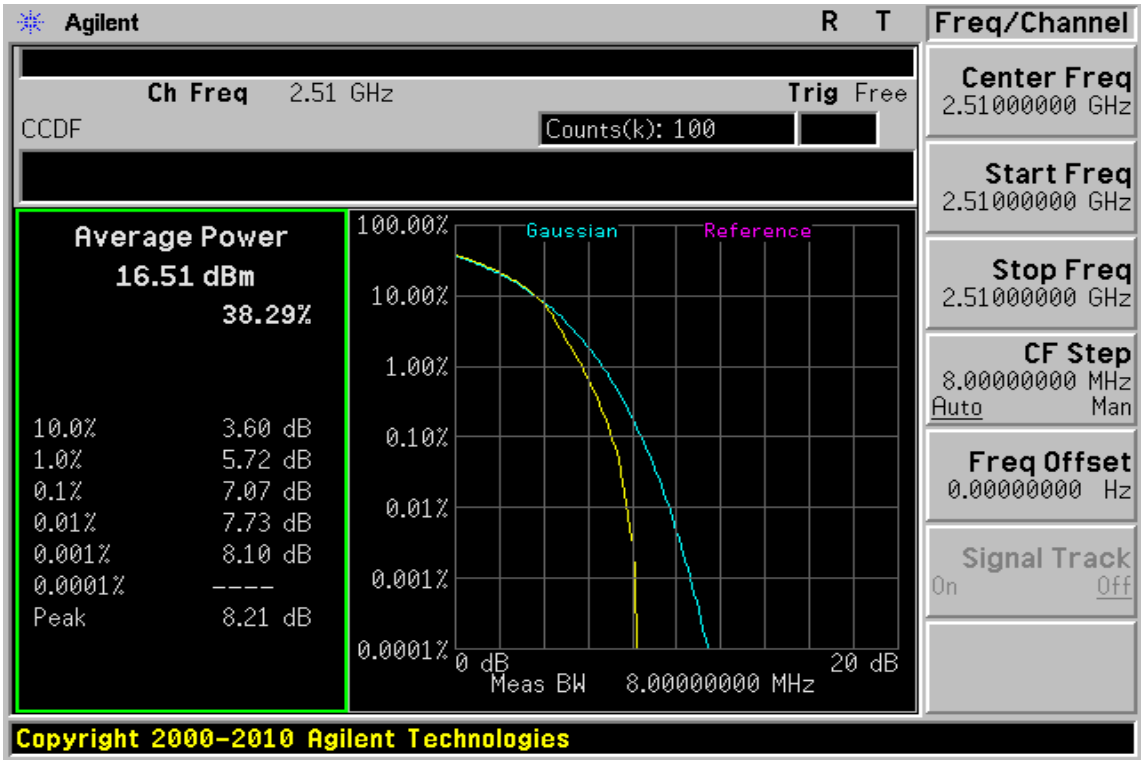


Figure 13-103: 20MHz BW LTE-Band 7(16QAM Number: 100 Offset: 0) Channel Low



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

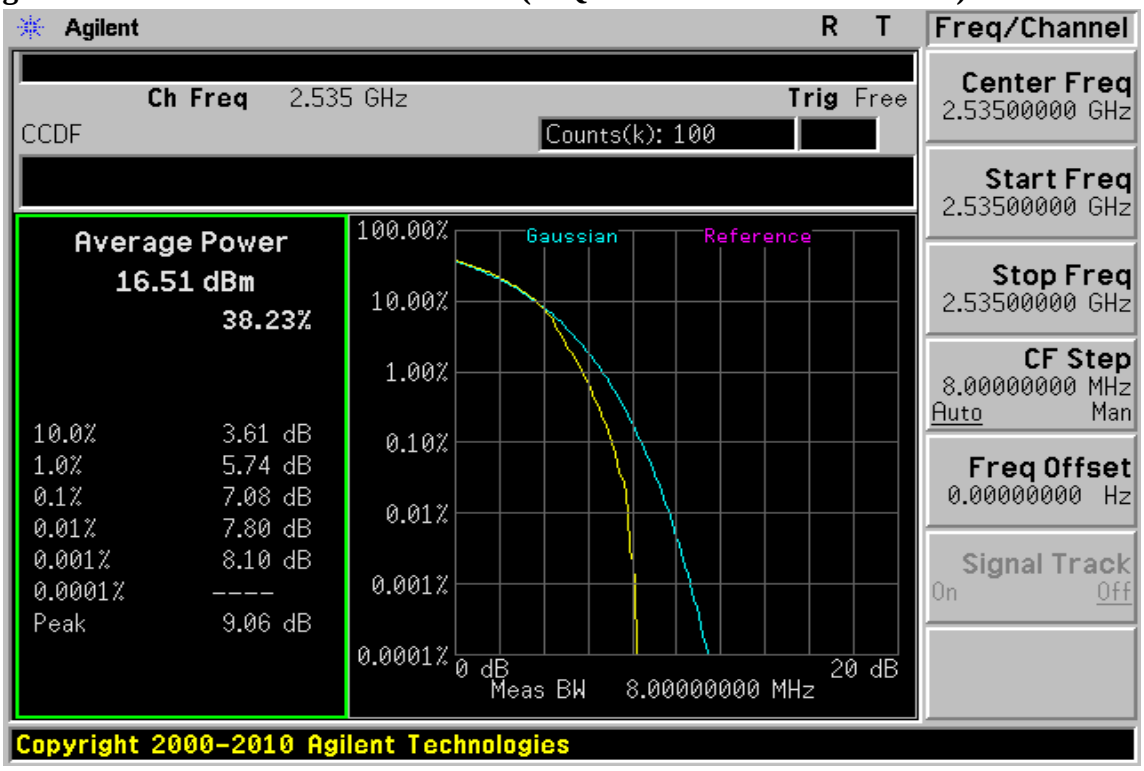
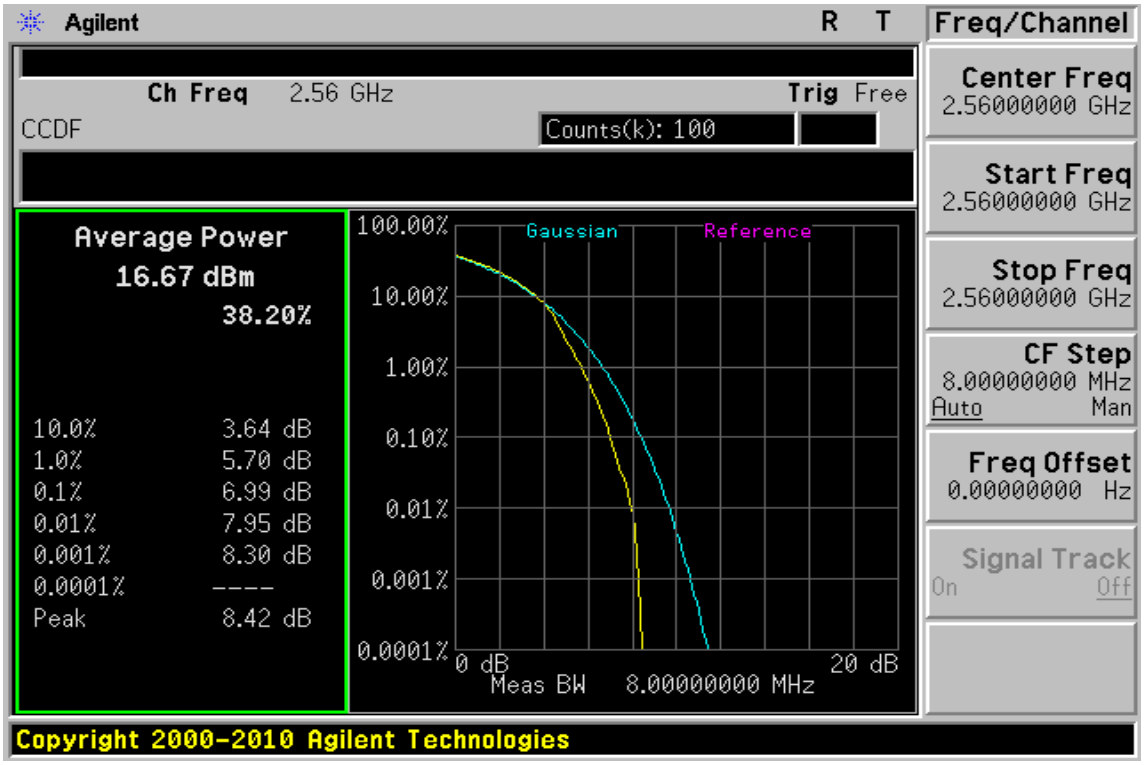


Figure 13-105: 20MHz BW LTE-Band 7(16QAM Number: 100 Offset: 0) Channel High



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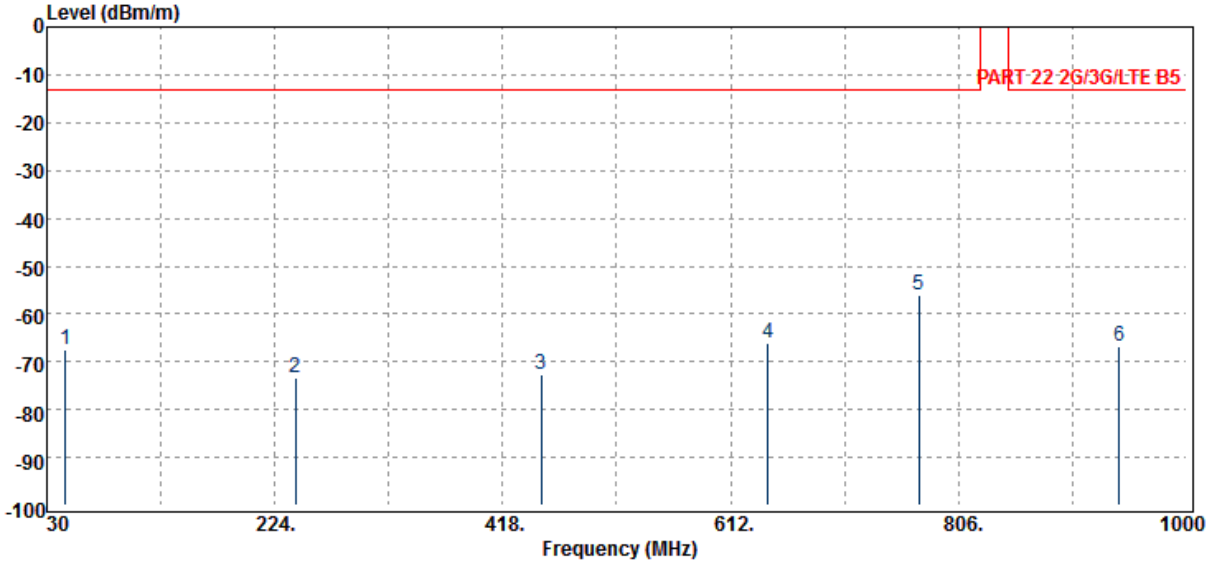
APPENDIX 1

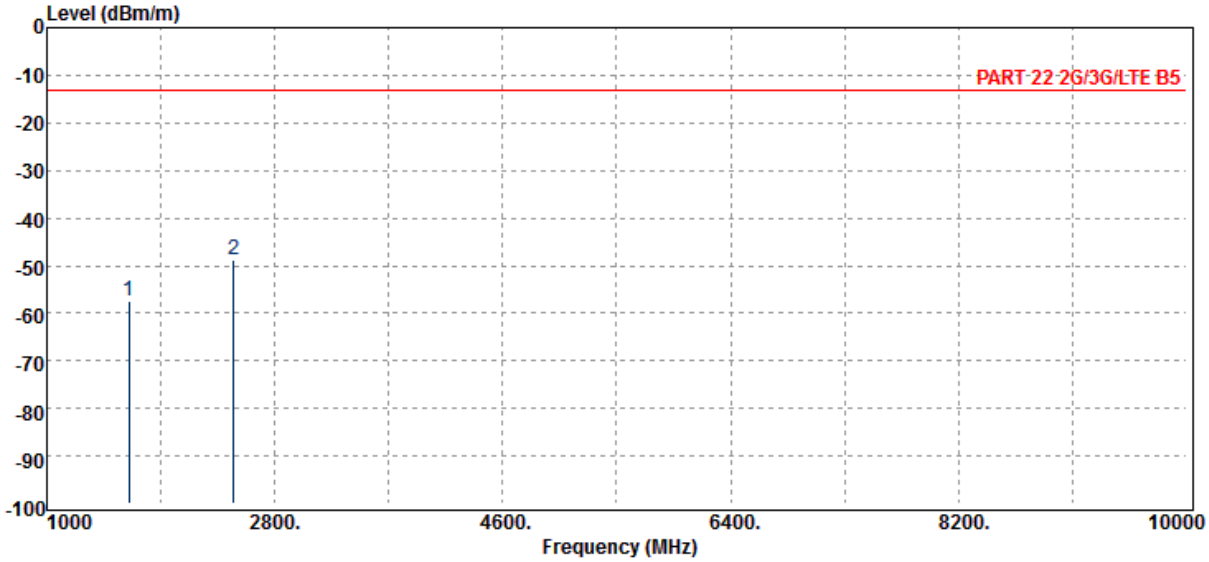
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Radiated Spurious Emission Measurement Result: GSM 850 Mode

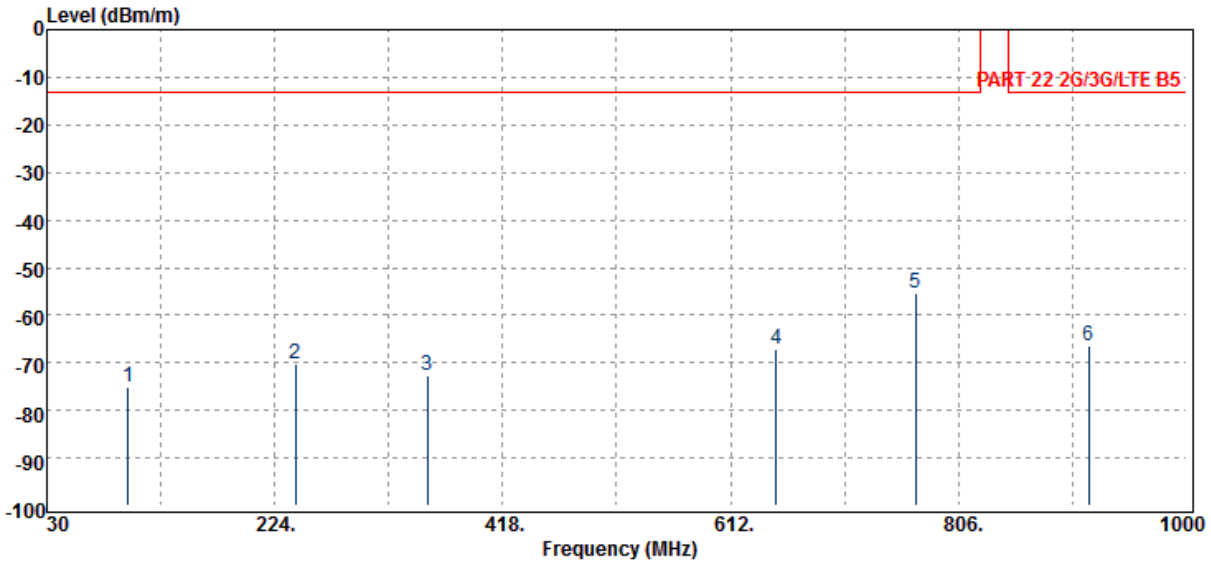
Operation Band	:GSM 850	Test Date	:2014-11-29
ARFCN	:CH 128	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

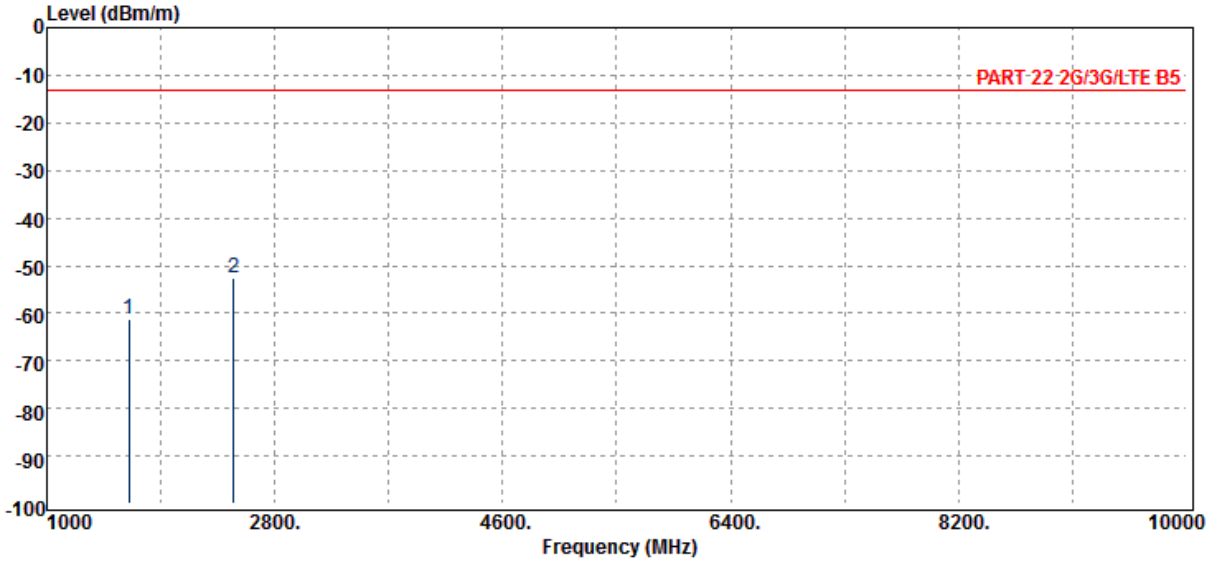




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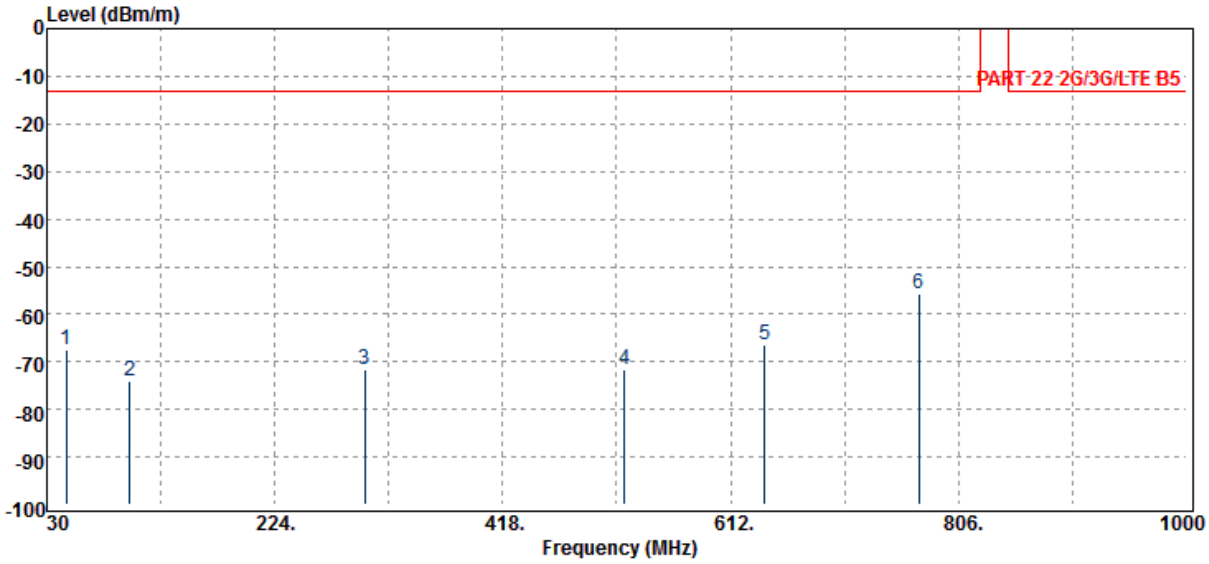
Operation Band	:GSM 850	Test Date	:2014-11-29
ARFCN	:CH 128	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

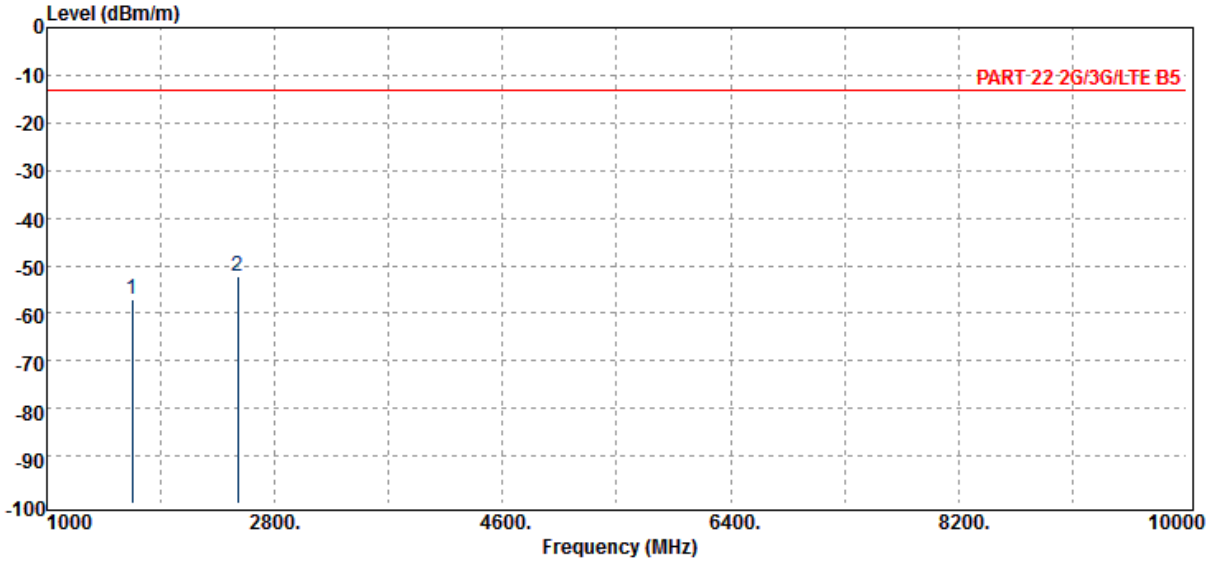




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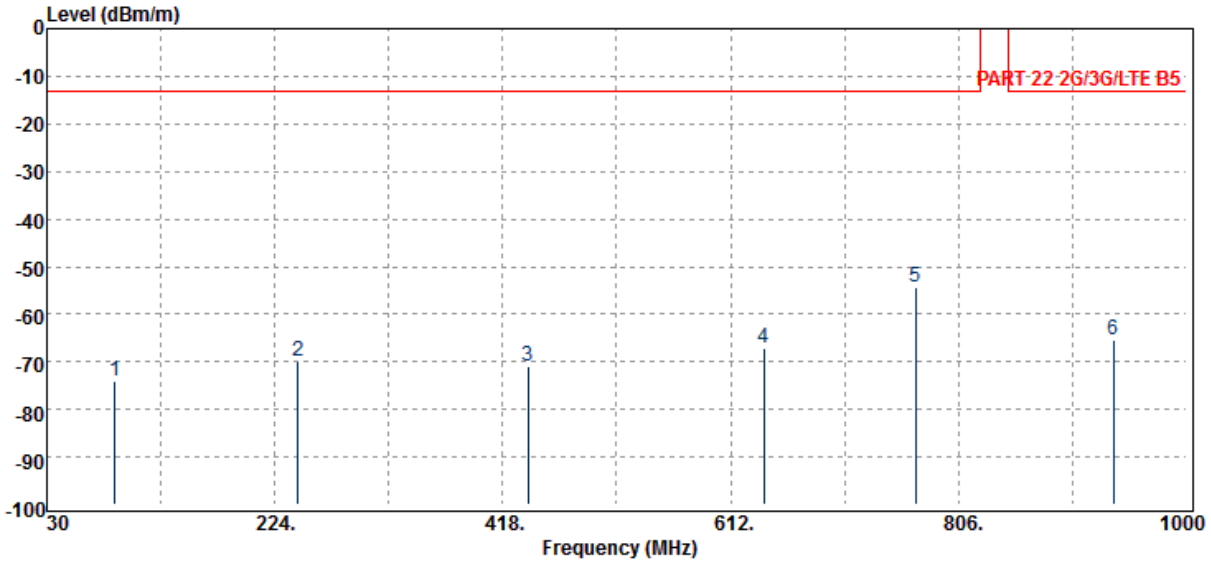
Operation Band	:GSM 850	Test Date	:2014-11-29
ARFCN	:CH 190	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

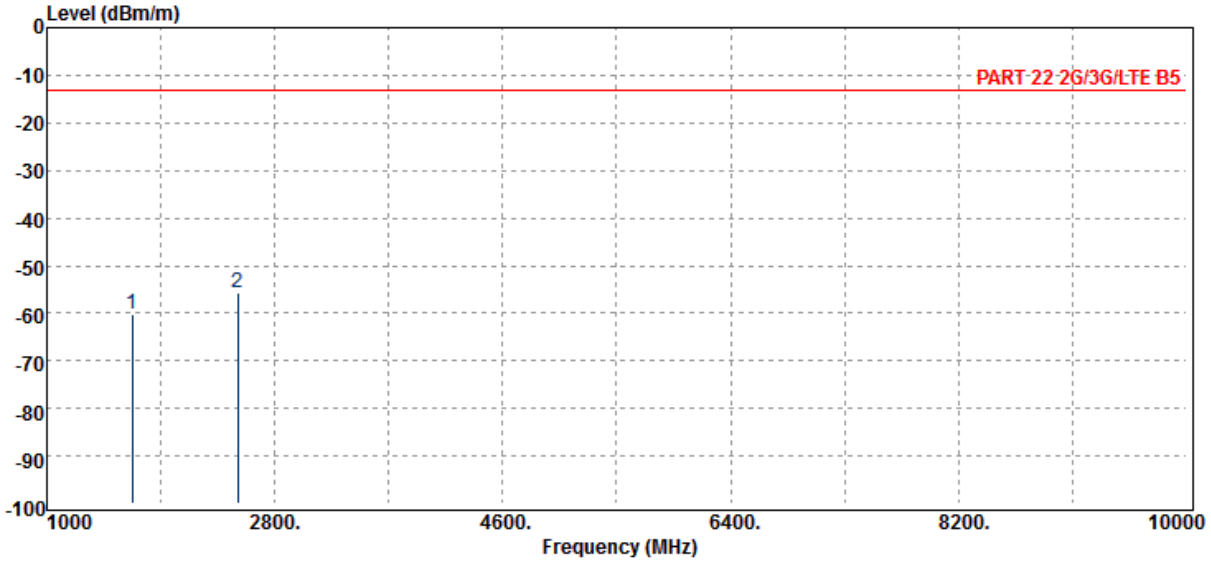




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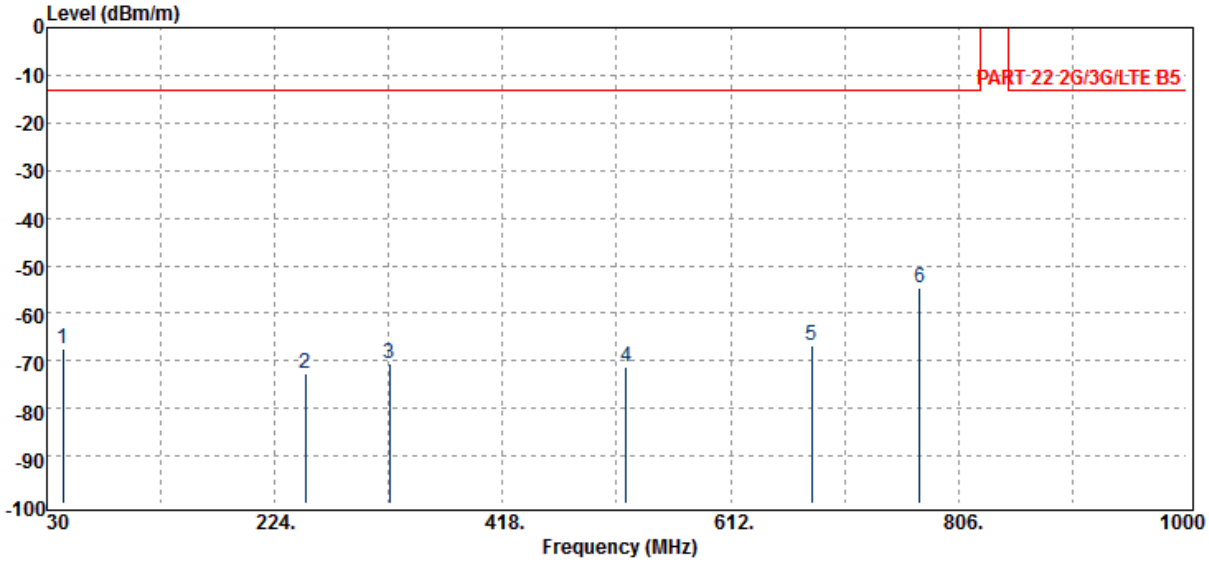
Operation Band	:GSM 850	Test Date	:2014-11-29
ARFCN	:CH 190	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

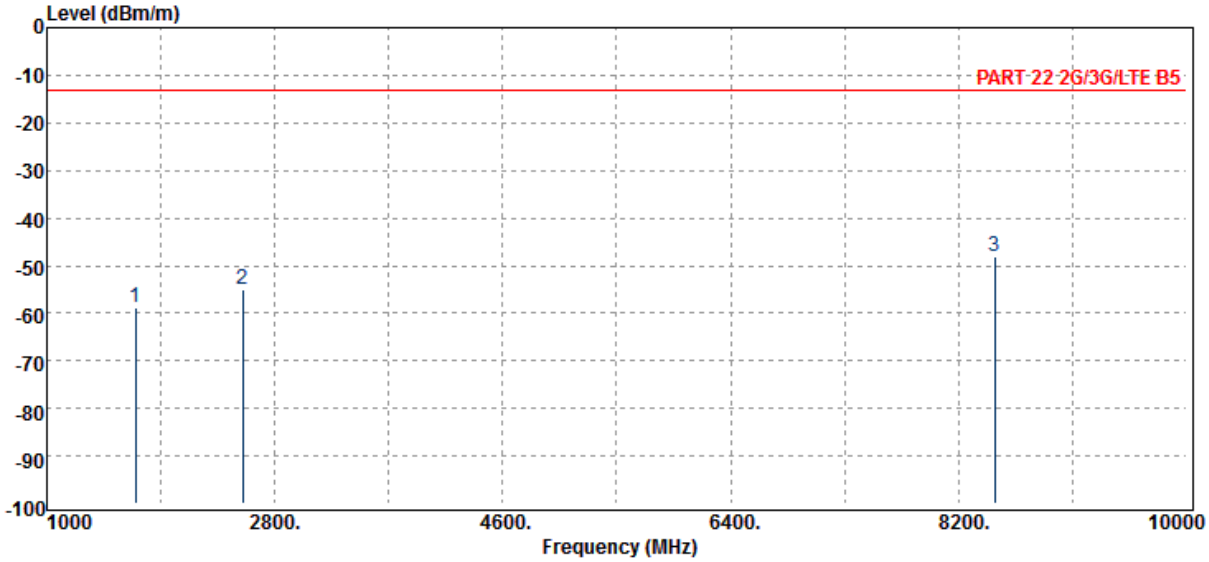




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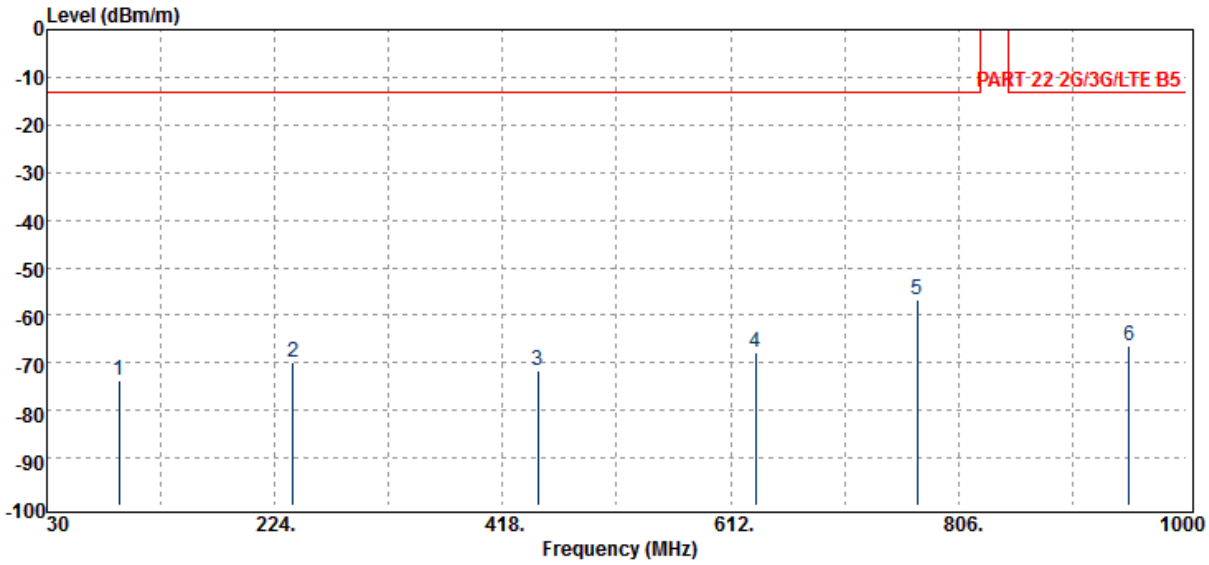
Operation Band	:GSM 850	Test Date	:2014-11-29
ARFCN	:CH 251	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

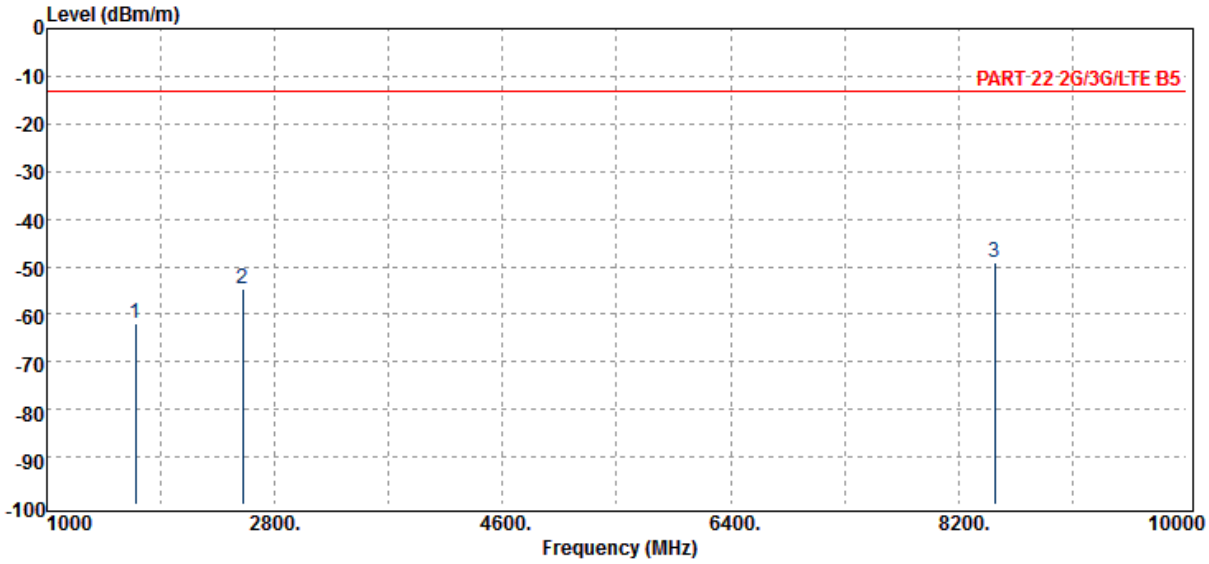




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Operation Band	:GSM 850	Test Date	:2014-11-29
ARFCN	:CH 251	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

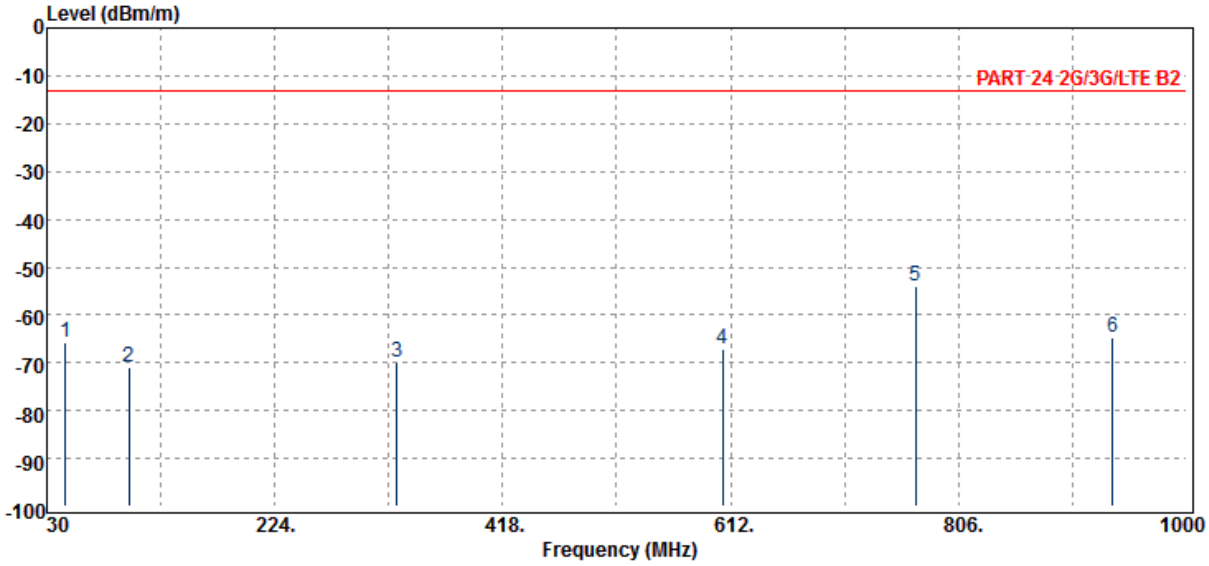


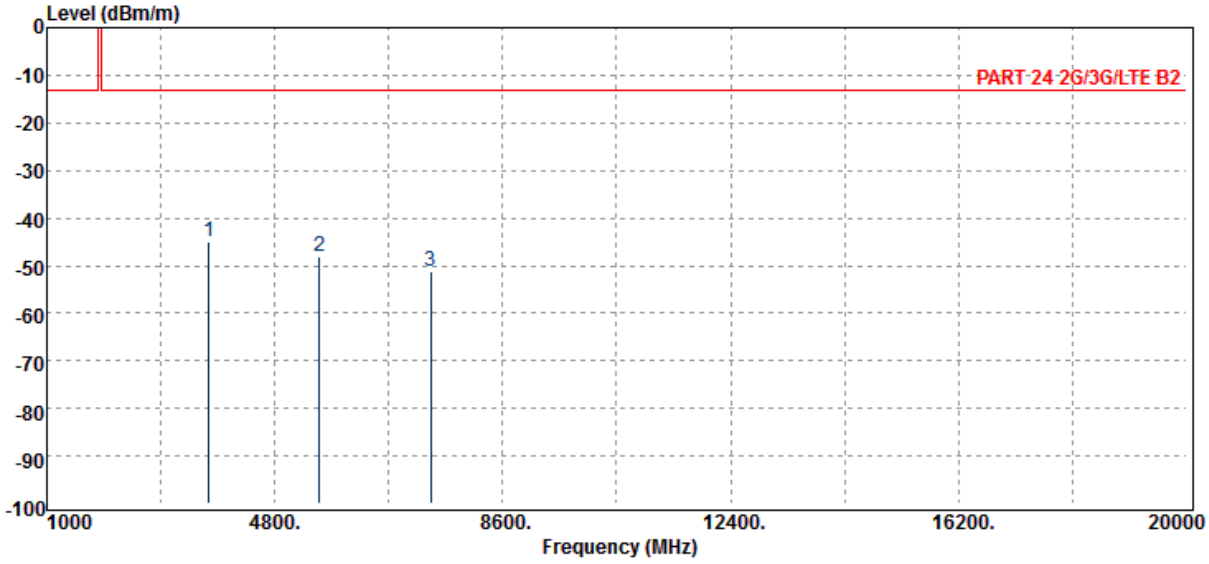


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Radiated Spurious Emission Measurement Result: GSM 1900 Mode

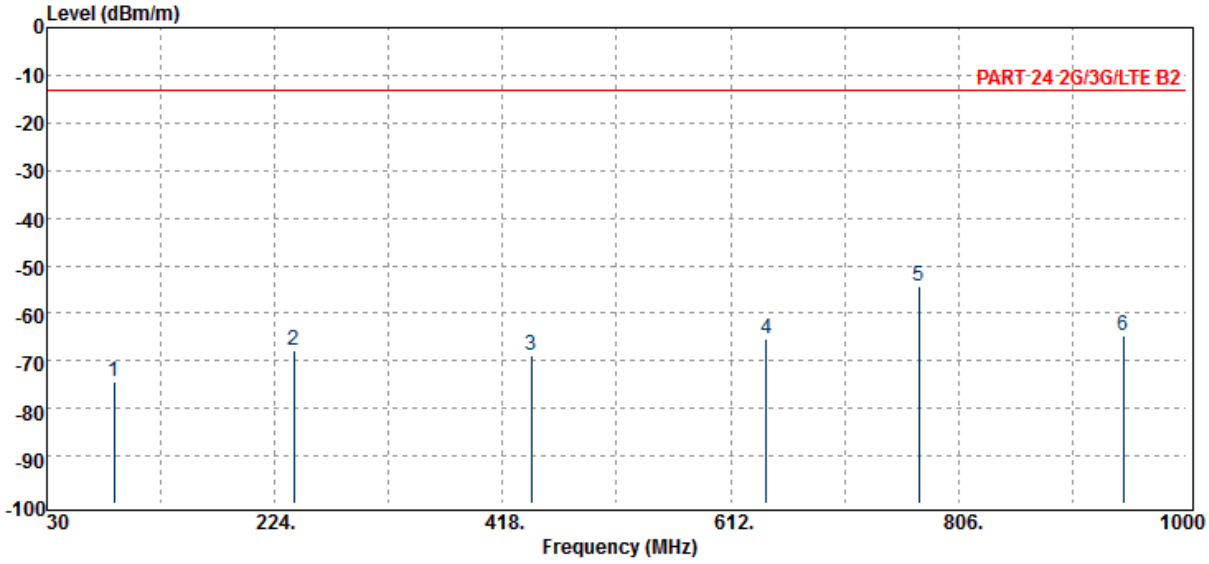
Operation Band	:GSM 1900	Test Date	:2014-11-20
ARFCN	:CH 512	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

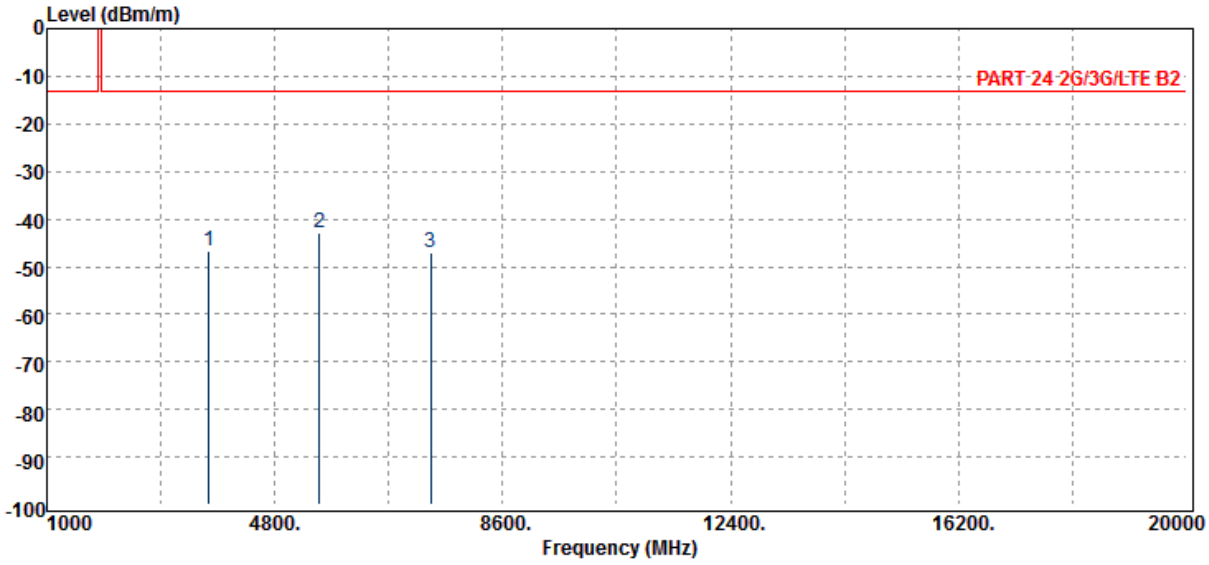




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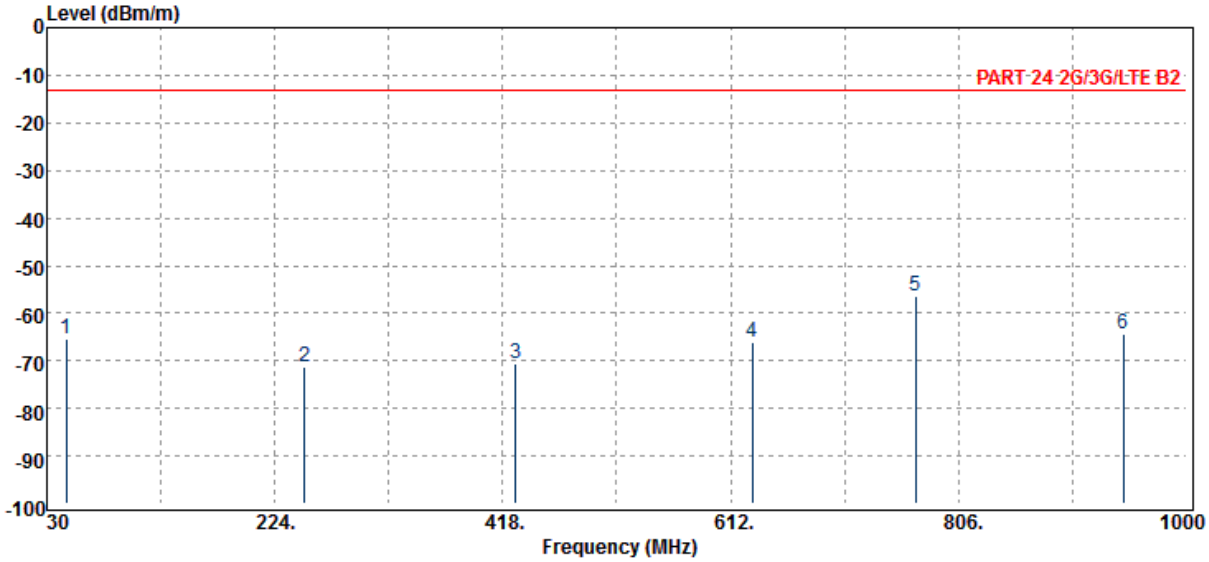
Operation Band	:GSM 1900	Test Date	:2014-11-20
ARFCN	:CH 512	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

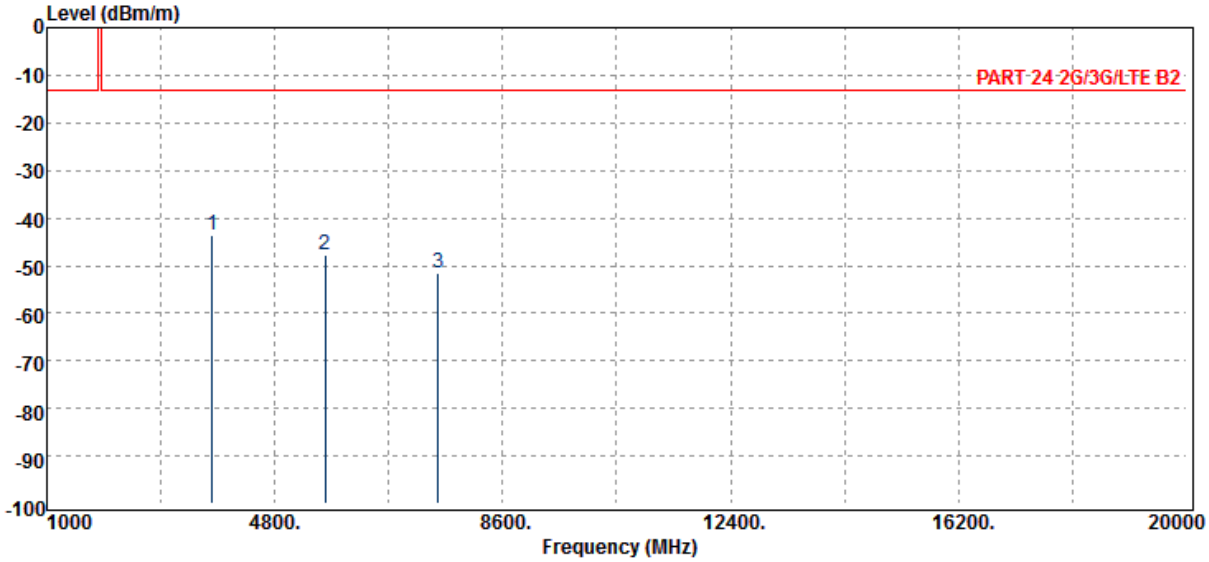




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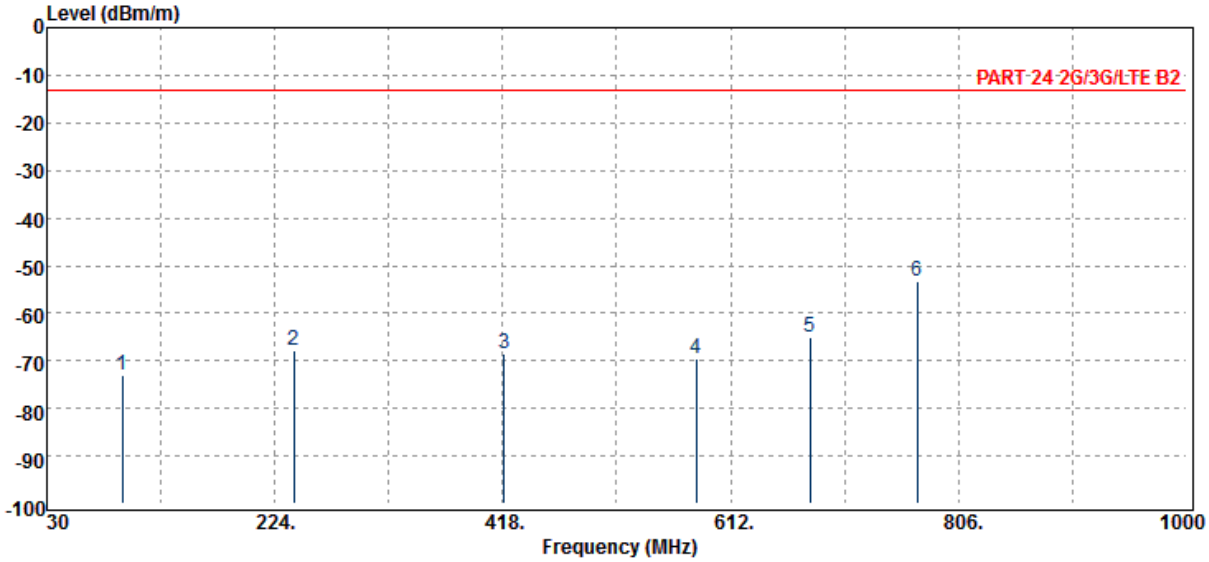
Operation Band	:GSM 1900	Test Date	:2014-11-20
ARFCN	:CH 661	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1880 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

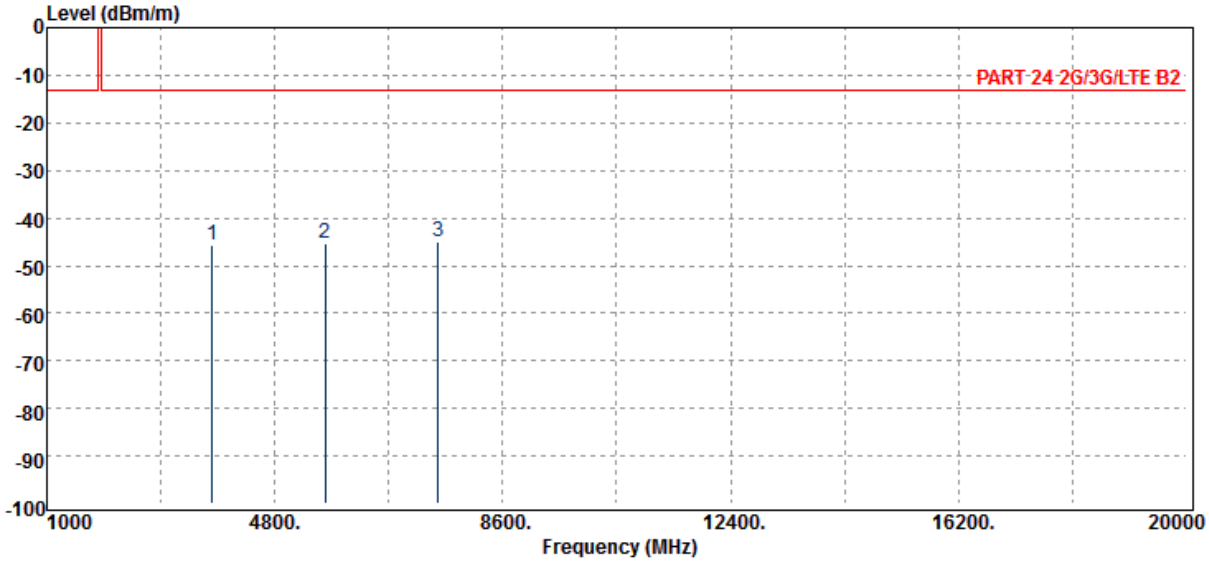




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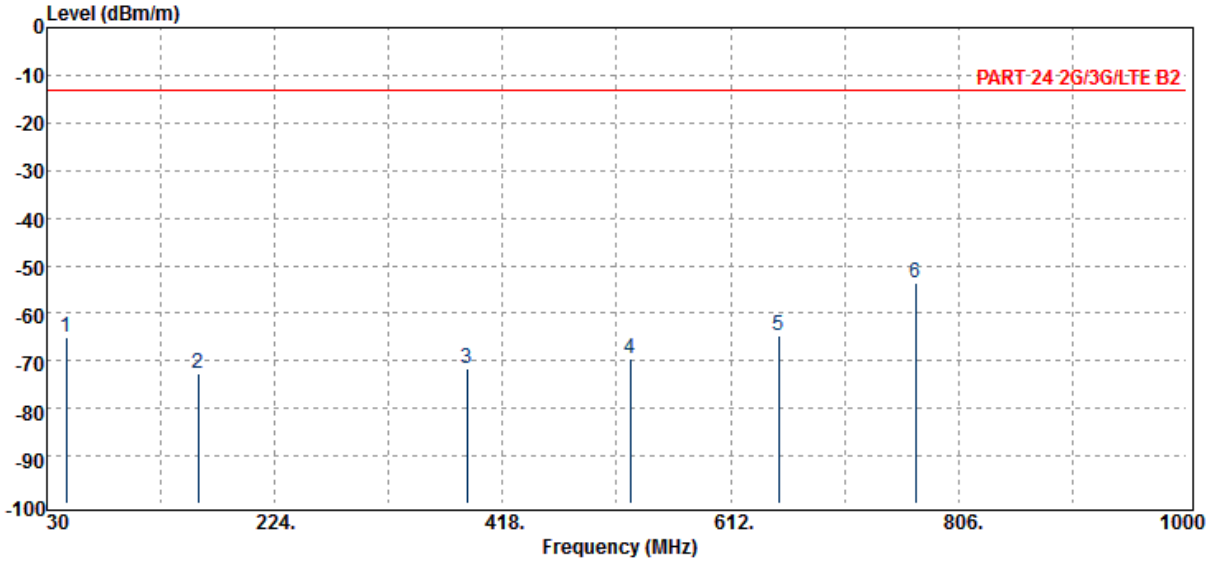
Operation Band	:GSM 1900	Test Date	:2014-11-20
ARFCN	:CH 661	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1880 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

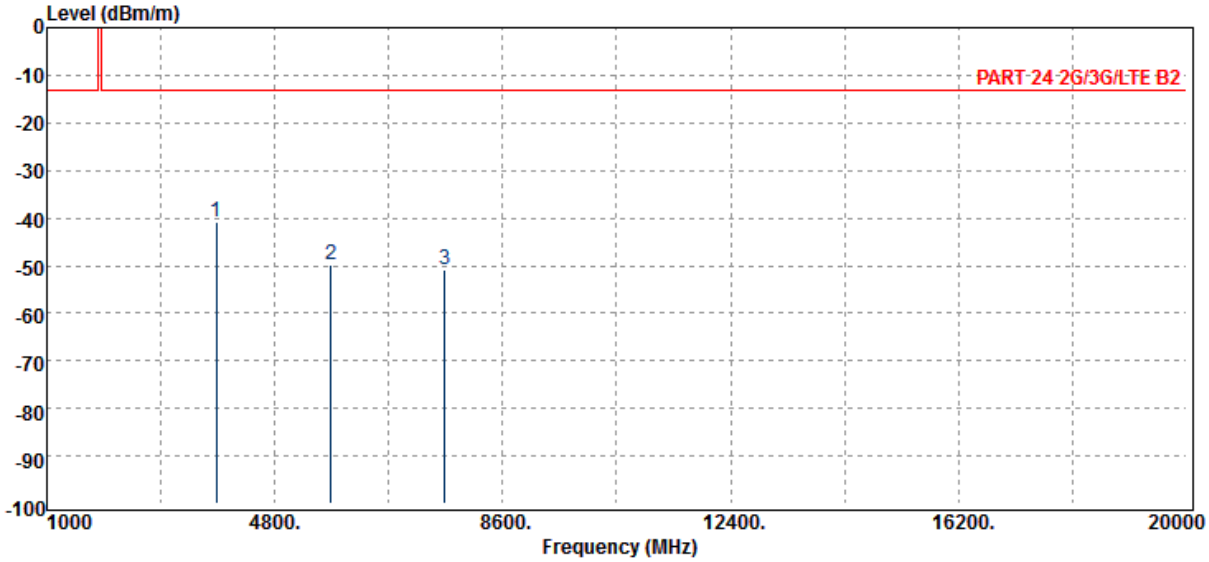




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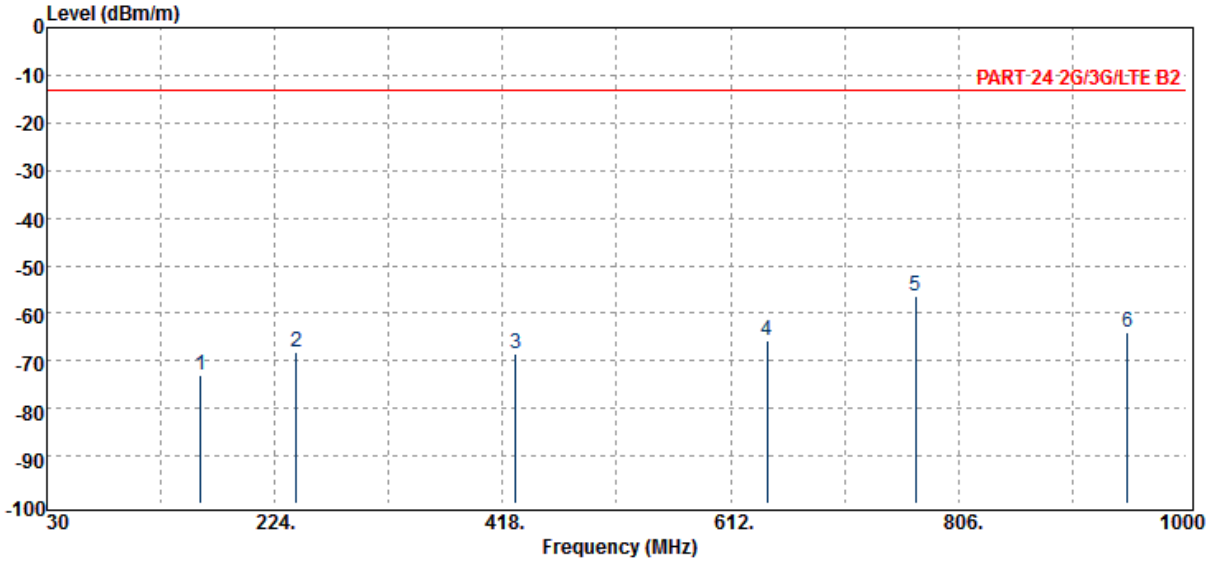
Operation Band	:GSM 1900	Test Date	:2014-11-20
ARFCN	:CH 810	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

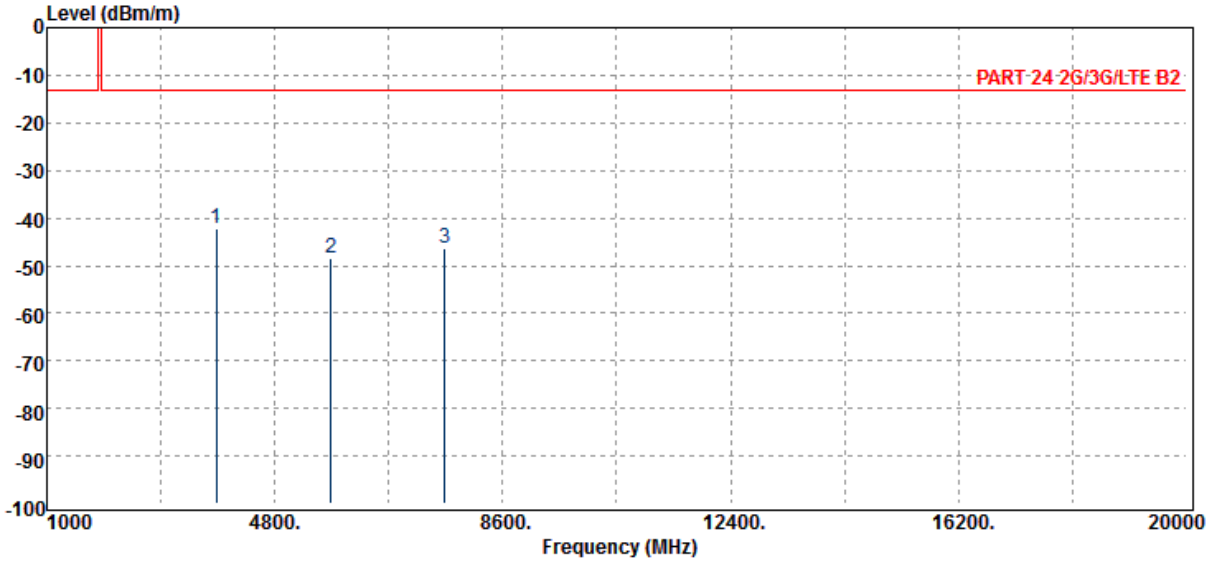




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Operation Band	:GSM 1900	Test Date	:2014-11-20
ARFCN	:CH 810	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

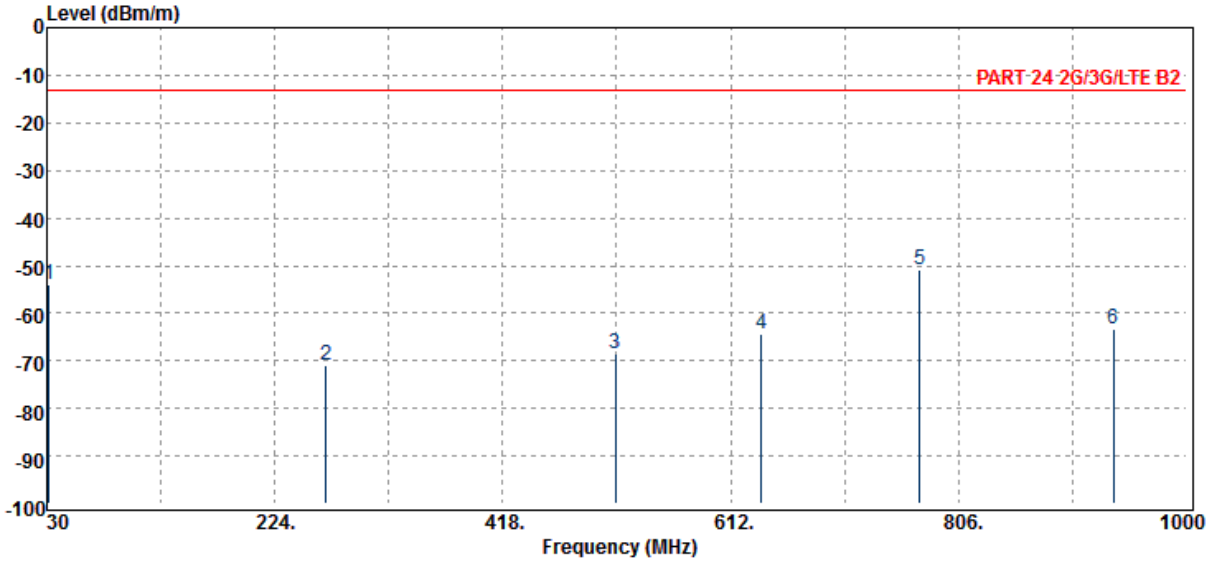


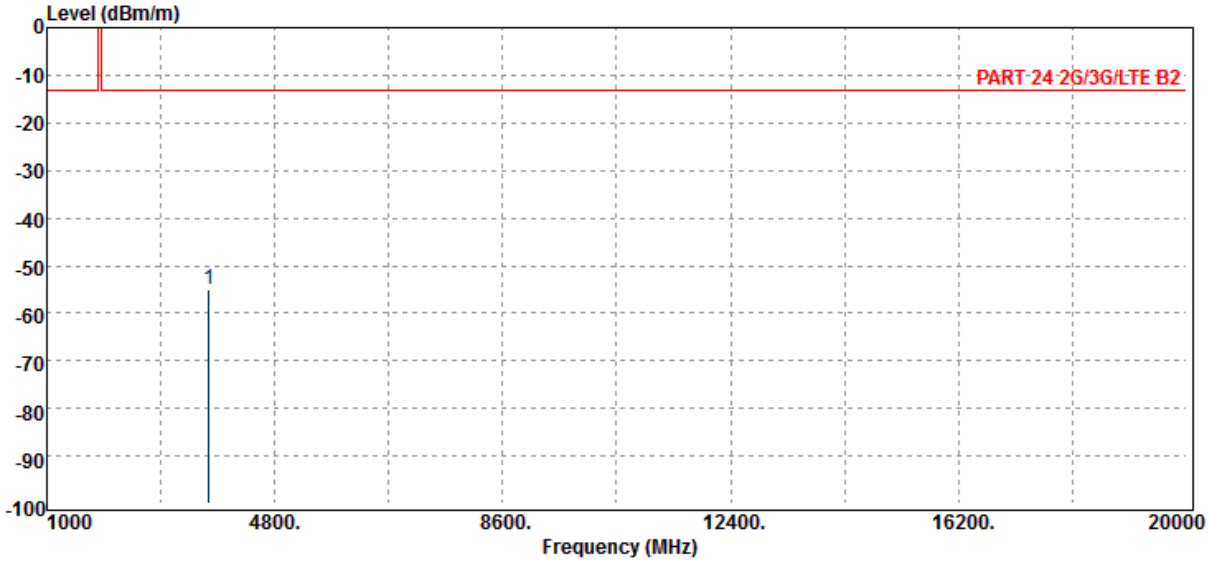


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Radiated Spurious Emission Measurement Result: WCDMA II Mode

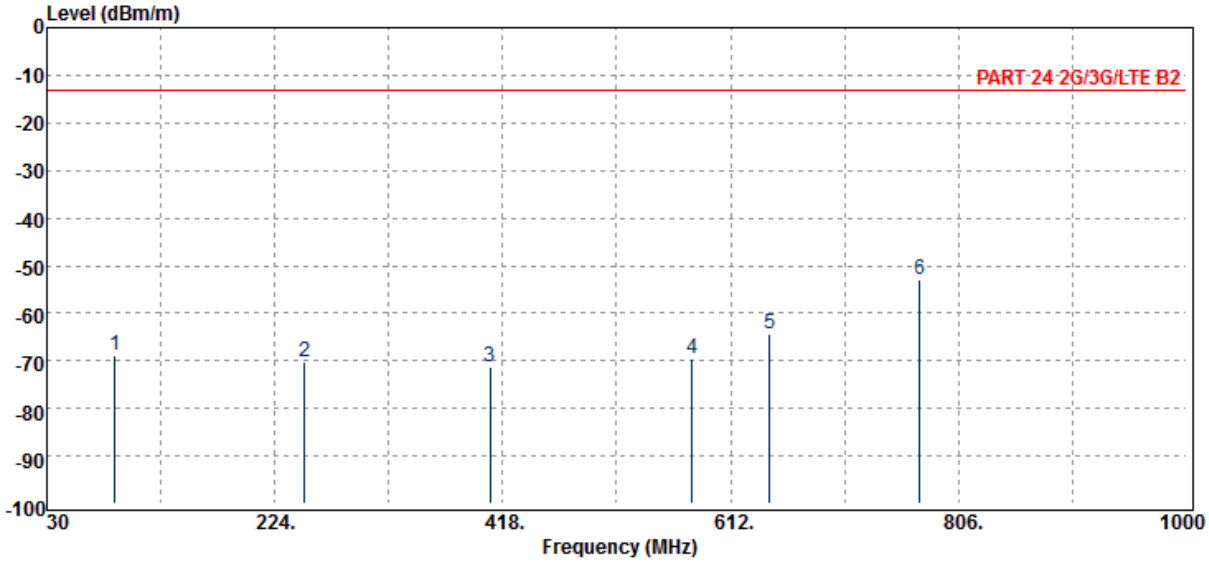
Operation Band	:WCDMA B2	Test Date	:2014-11-20
ARFCN	:CH 9262	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

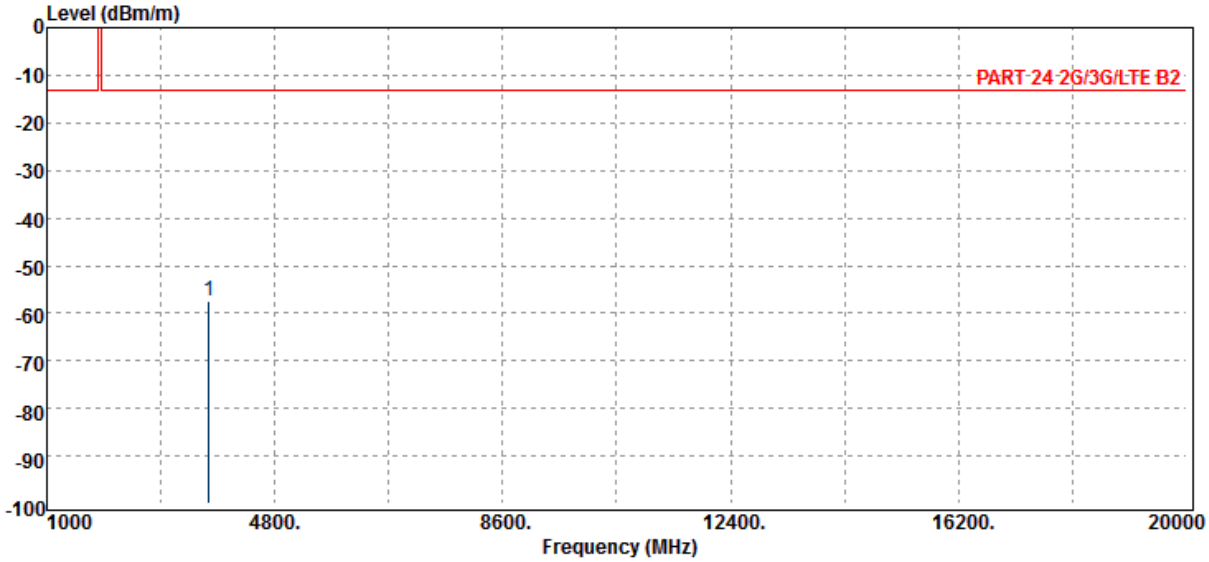




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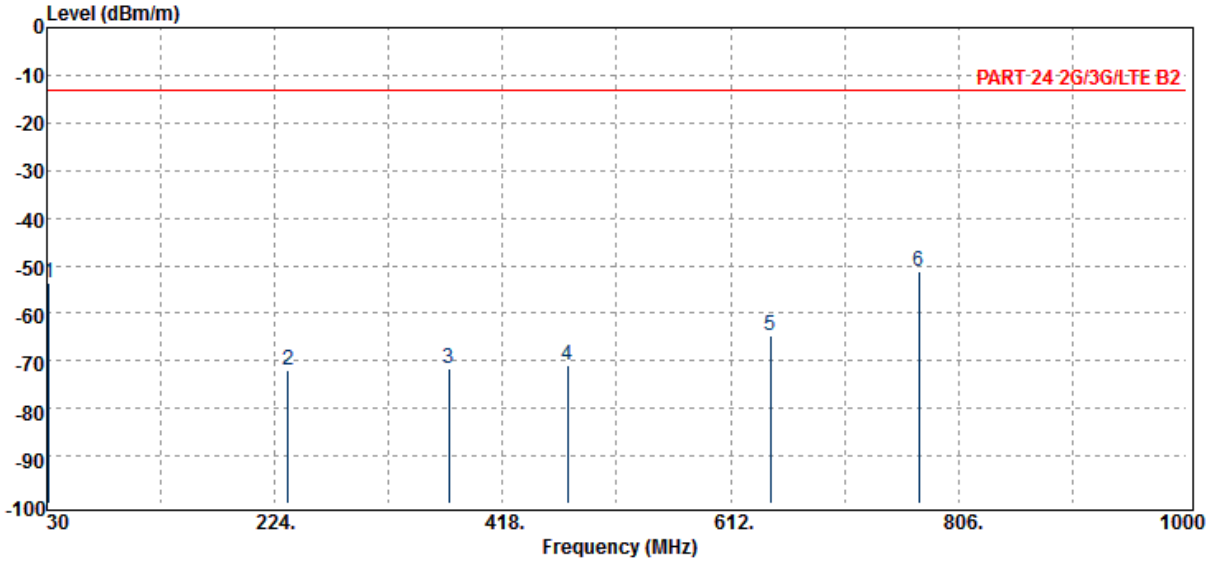
Operation Band	:WCDMA B2	Test Date	:2014-11-20
ARFCN	:CH 9262	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

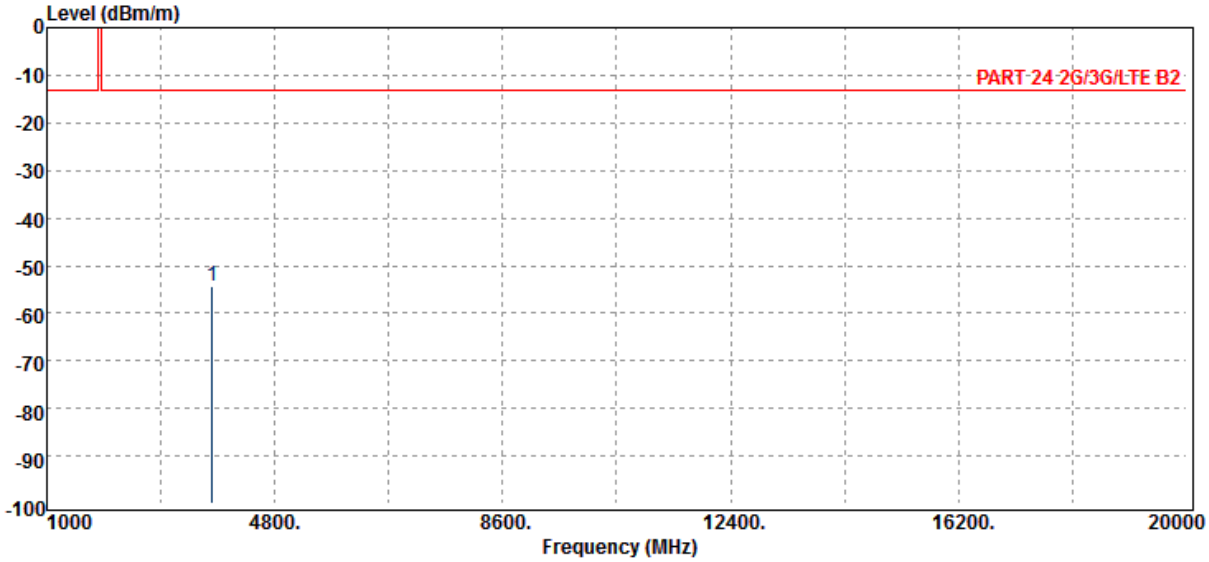




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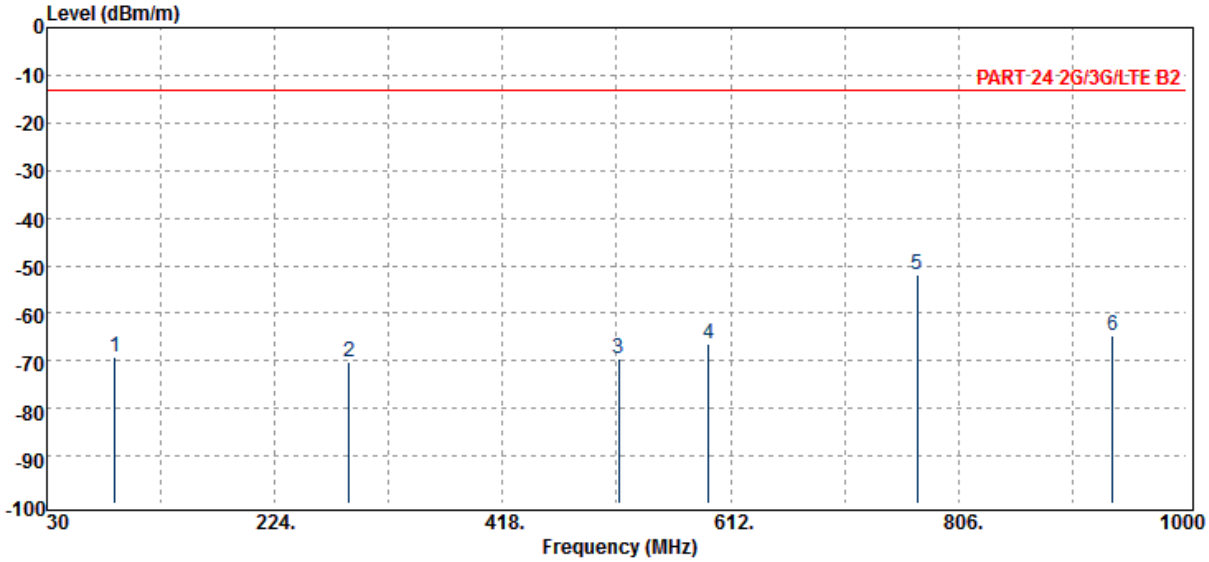
Operation Band	:WCDMA B2	Test Date	:2014-11-20
ARFCN	:CH 9400	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1880 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

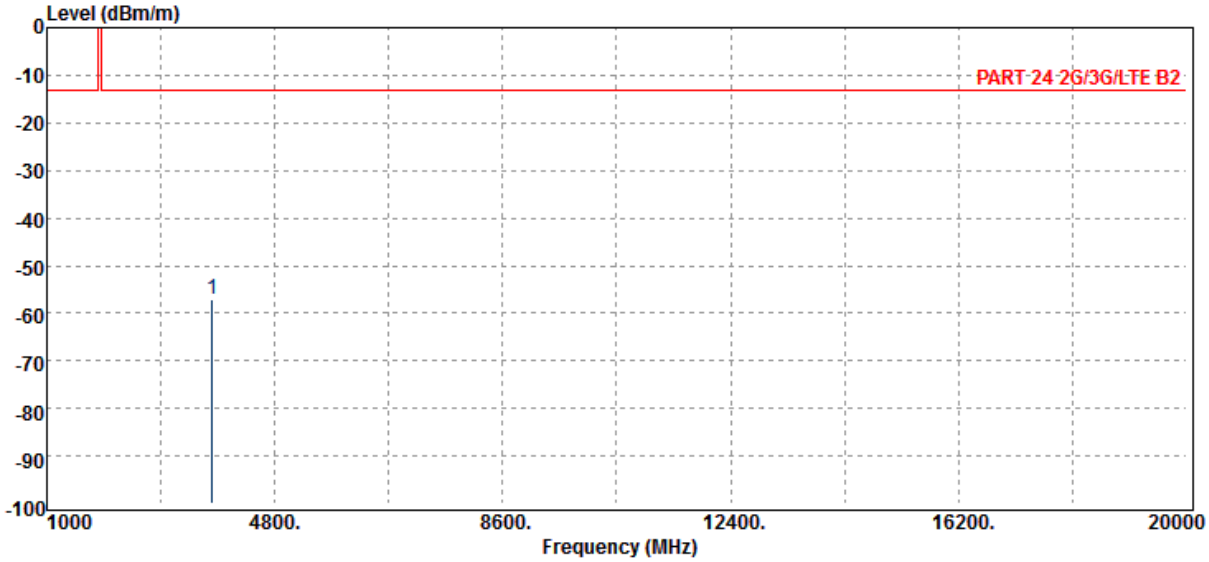




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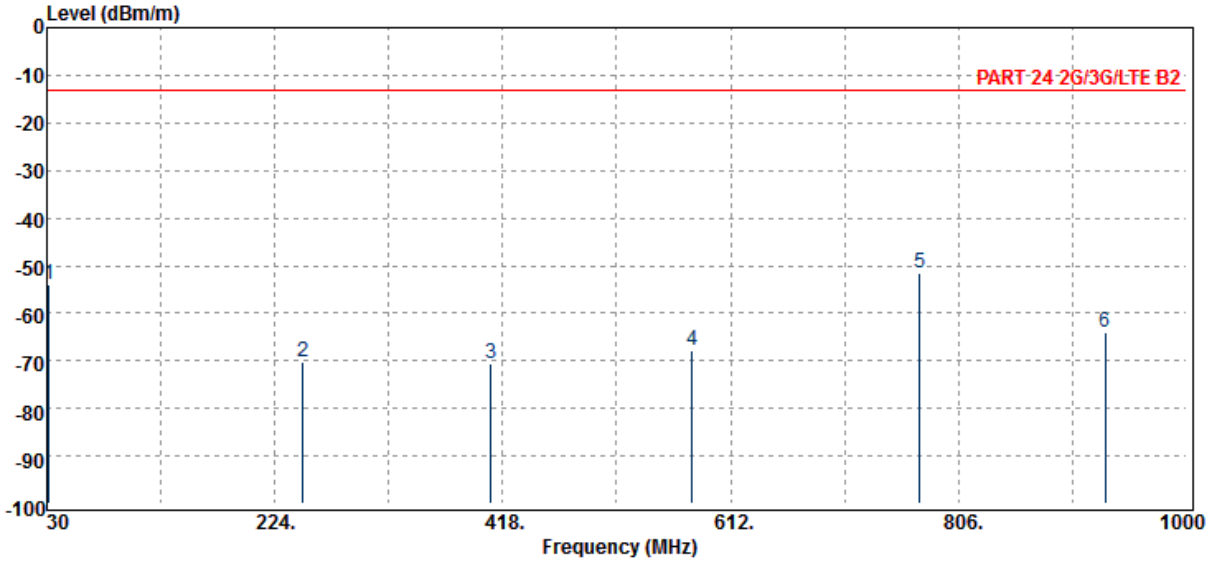
Operation Band	:WCDMA B2	Test Date	:2014-11-20
ARFCN	:CH 9400	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1880 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

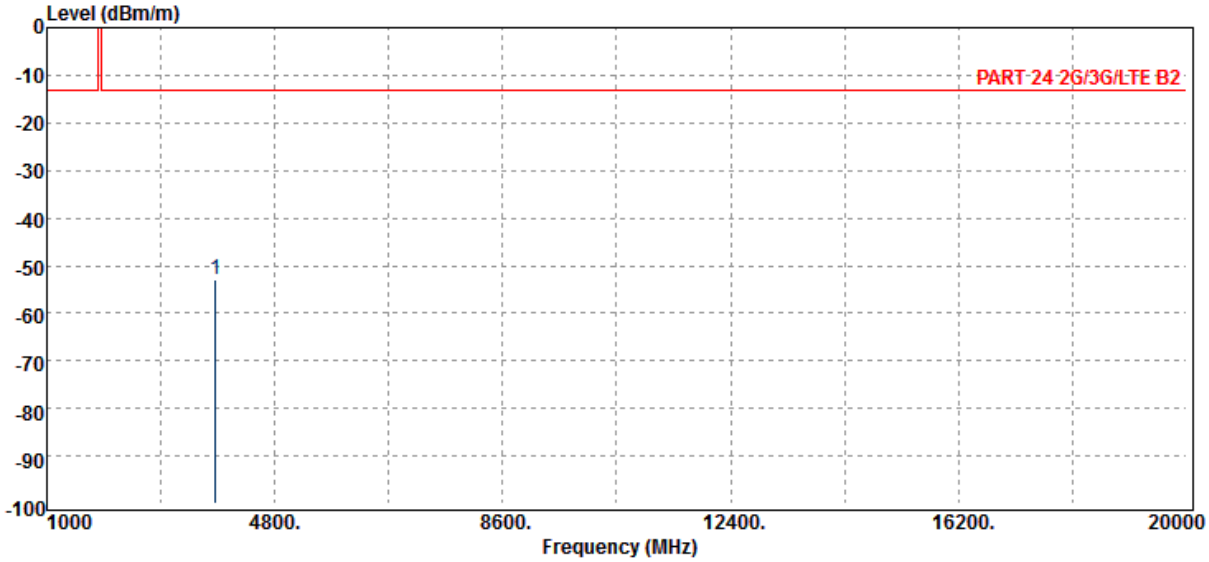




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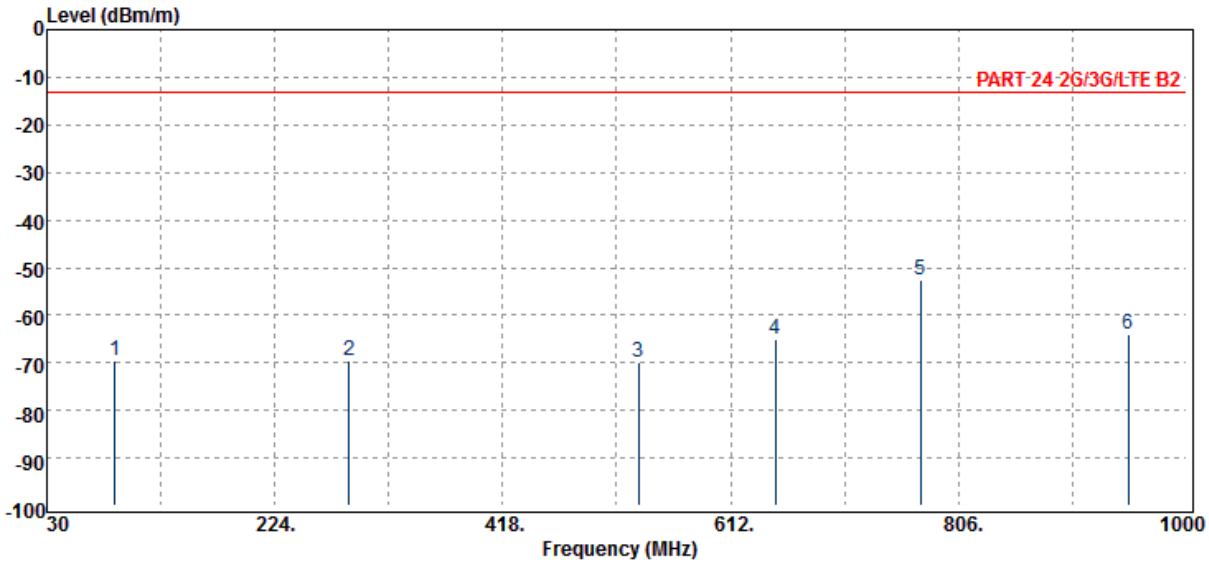
Operation Band	:WCDMA B2	Test Date	:2014-11-20
ARFCN	:CH 9538	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

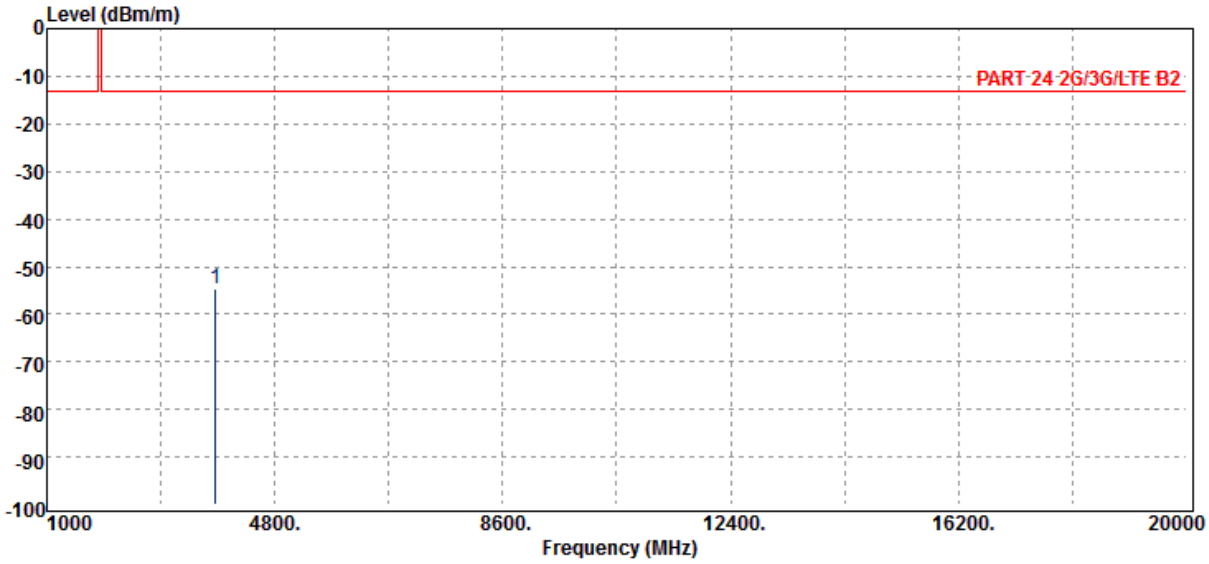




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Operation Band	:WCDMA B2	Test Date	:2014-11-20
ARFCN	:CH 9538	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

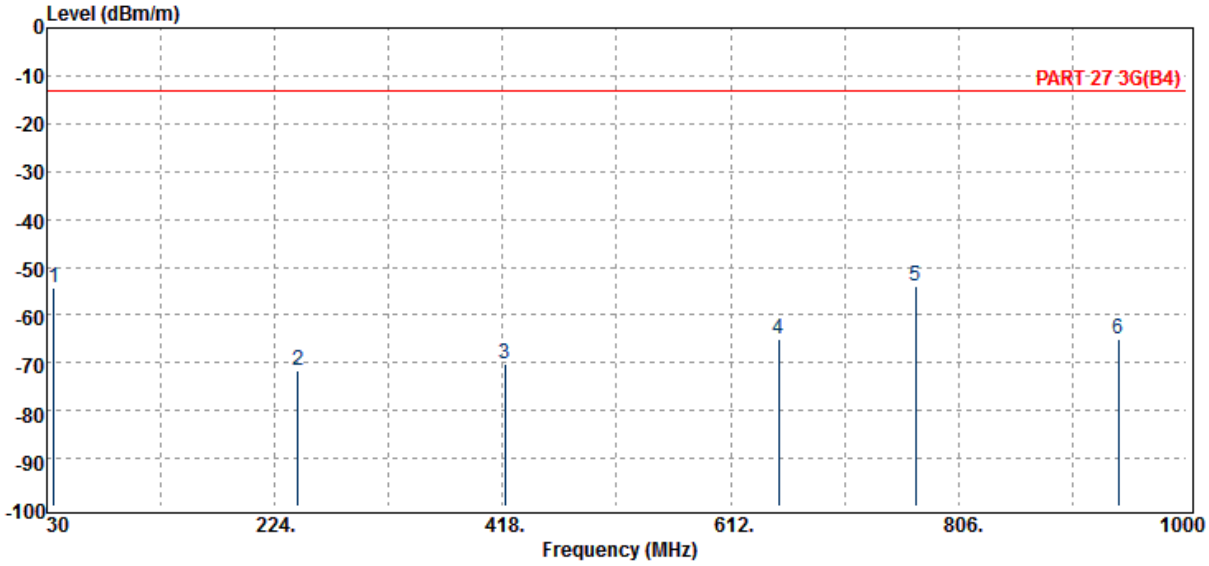


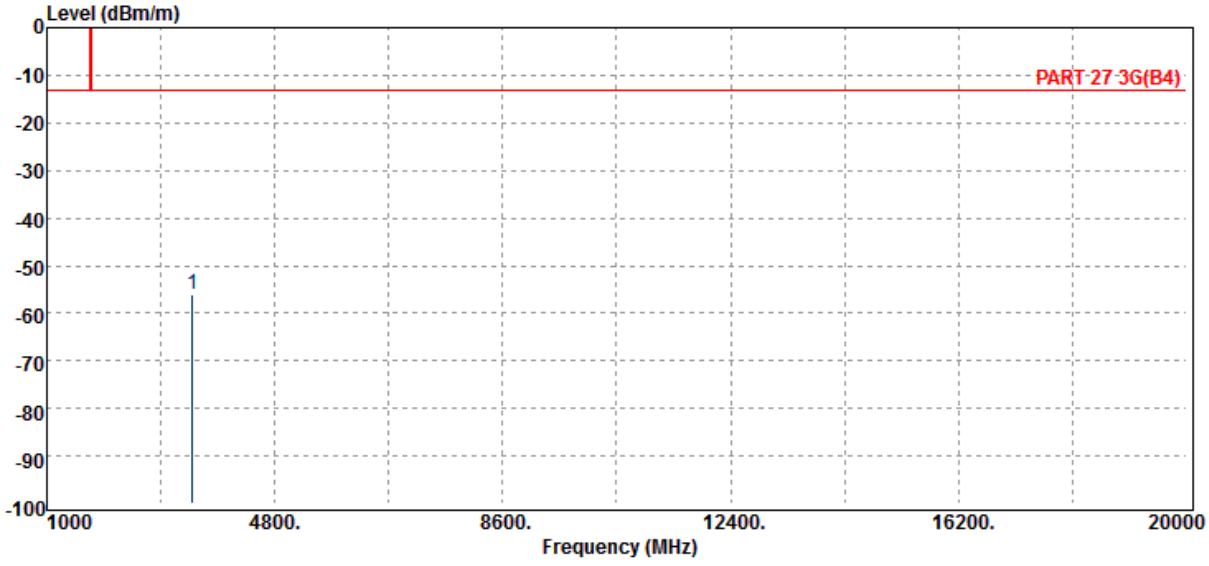


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Radiated Spurious Emission Measurement Result: WCDMA IV Mode

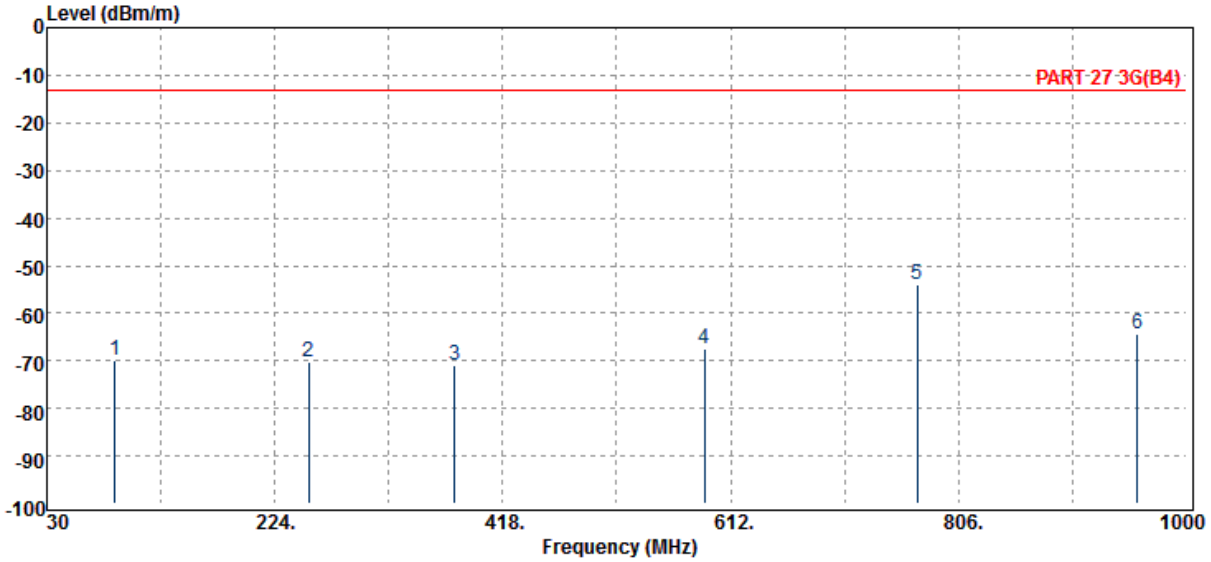
Operation Band	:WCDMA B4	Test Date	:2014-11-19
ARFCN	:CH 1312	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1712.4 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

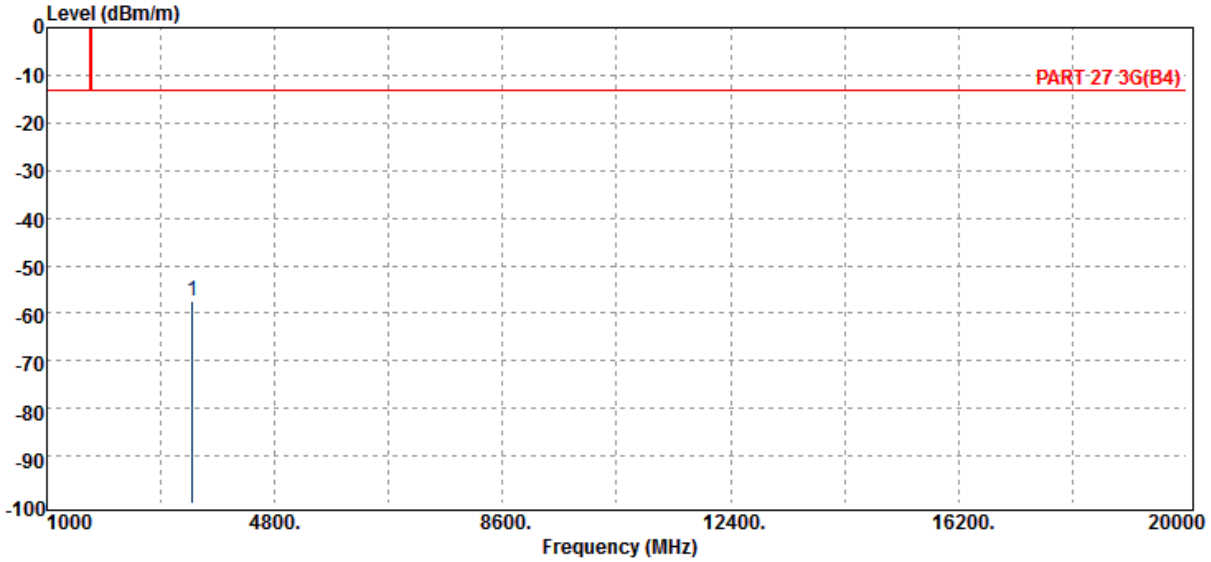




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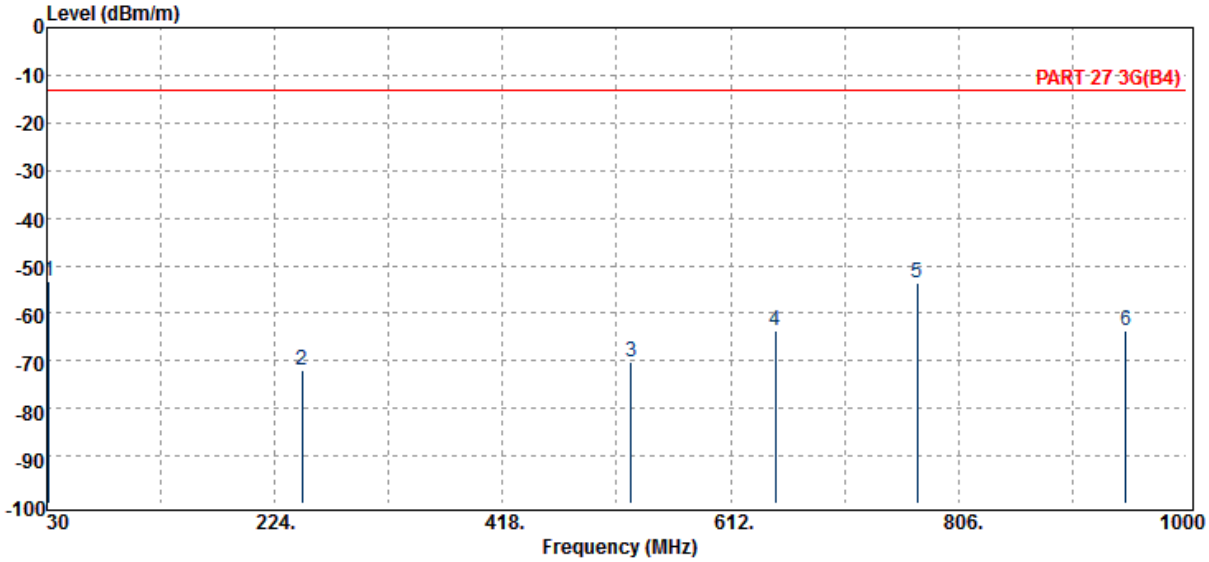
Operation Band	:WCDMA B4	Test Date	:2014-11-19
ARFCN	:CH 1312	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1712.4 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

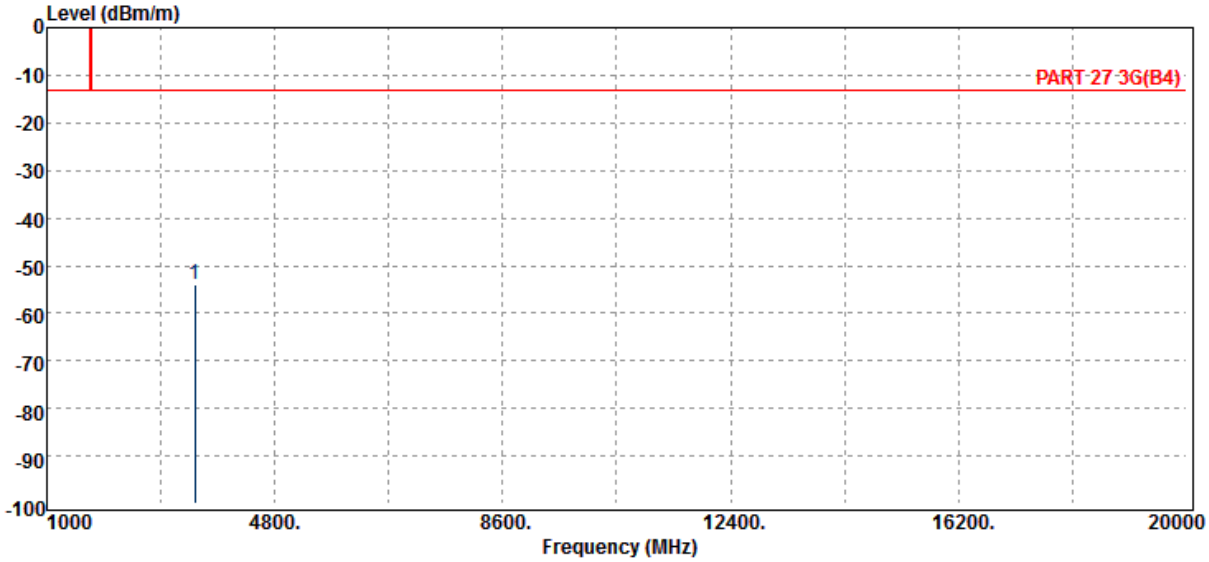




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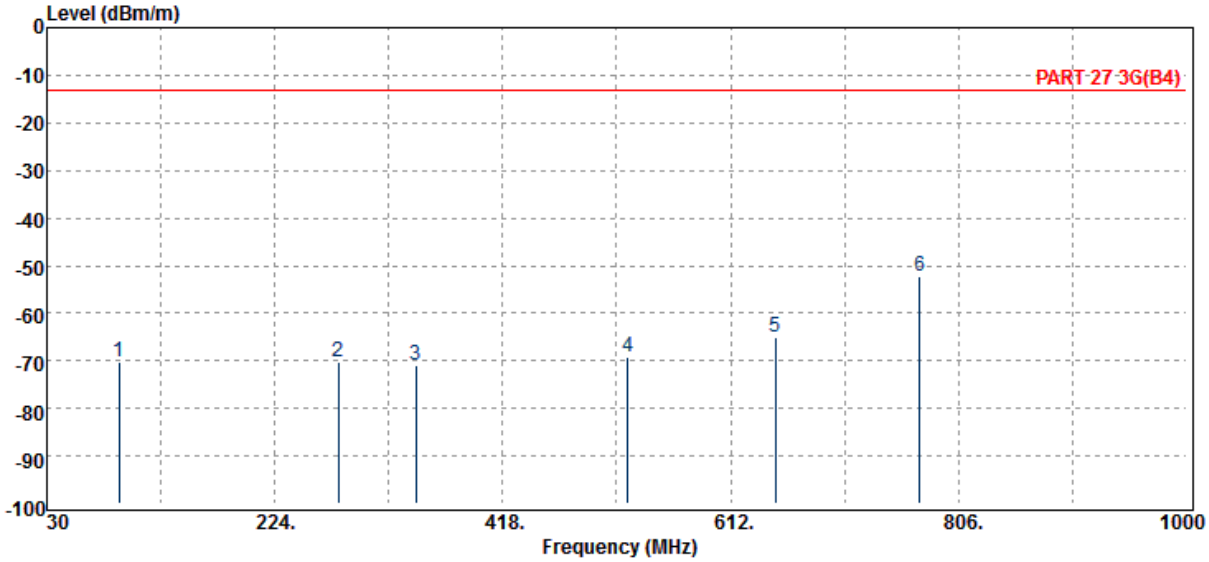
Operation Band	:WCDMA B4	Test Date	:2014-11-19
ARFCN	:CH 1413	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1732.6 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

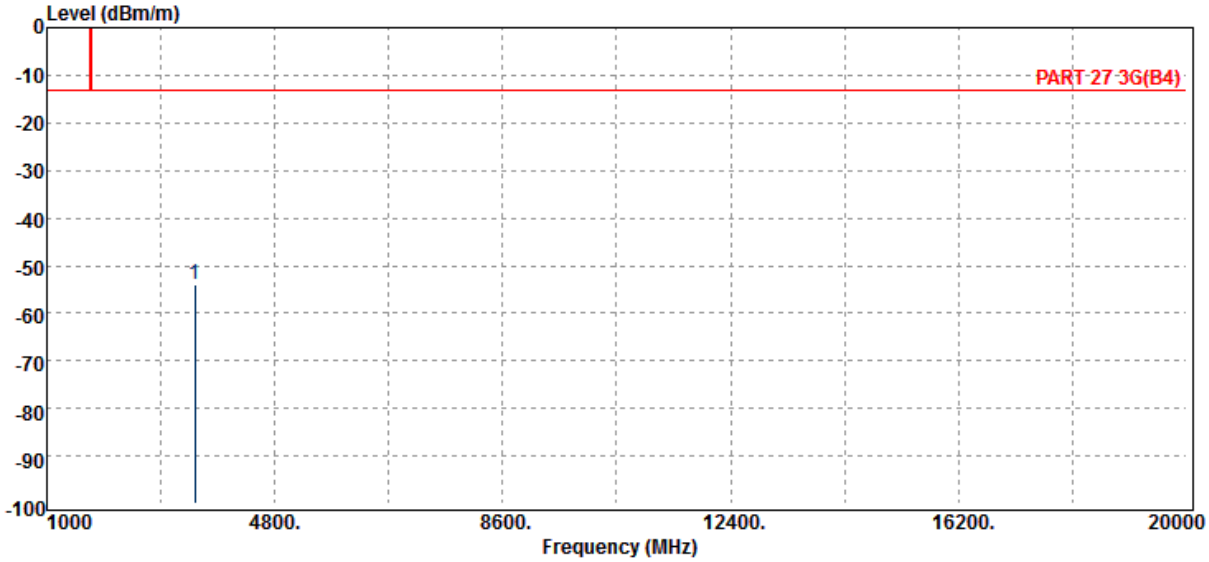




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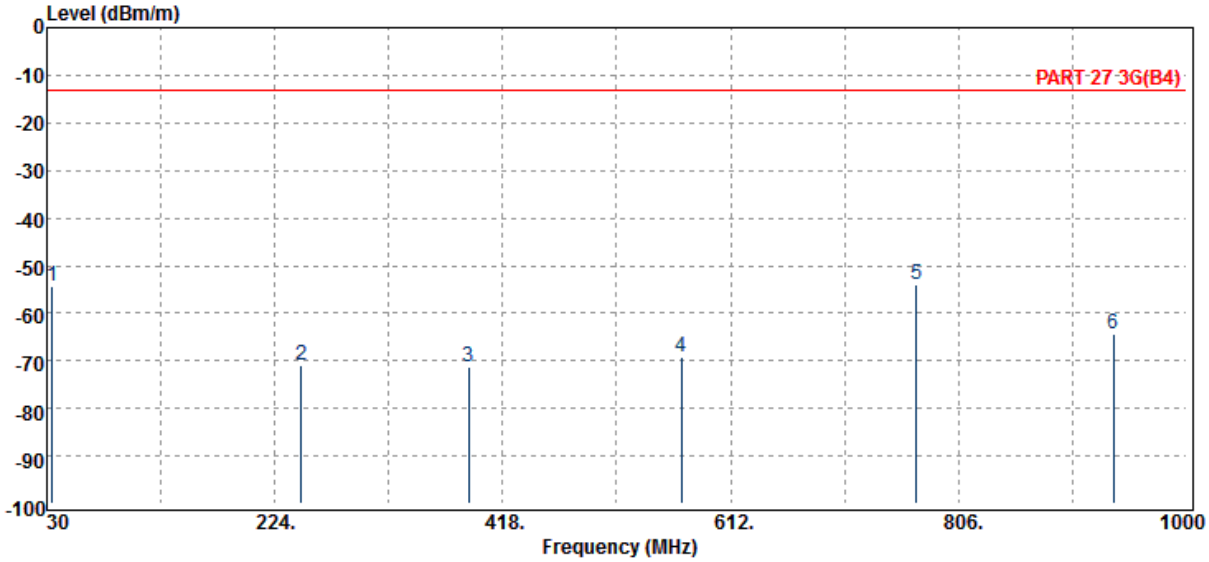
Operation Band	:WCDMA B4	Test Date	:2014-11-19
ARFCN	:CH 1413	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1732.6 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

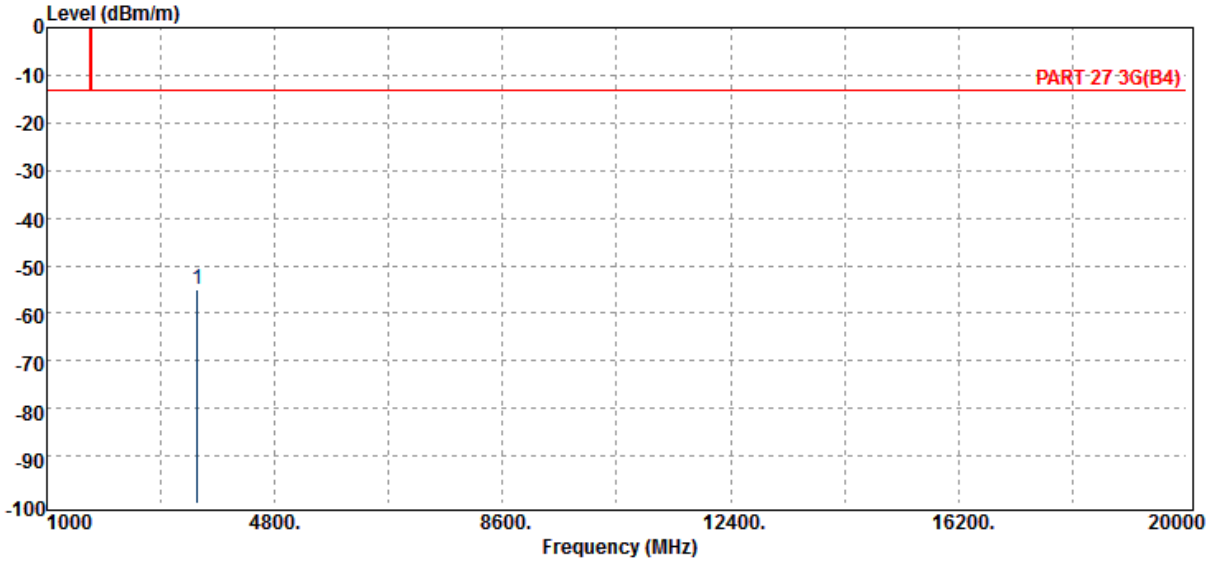




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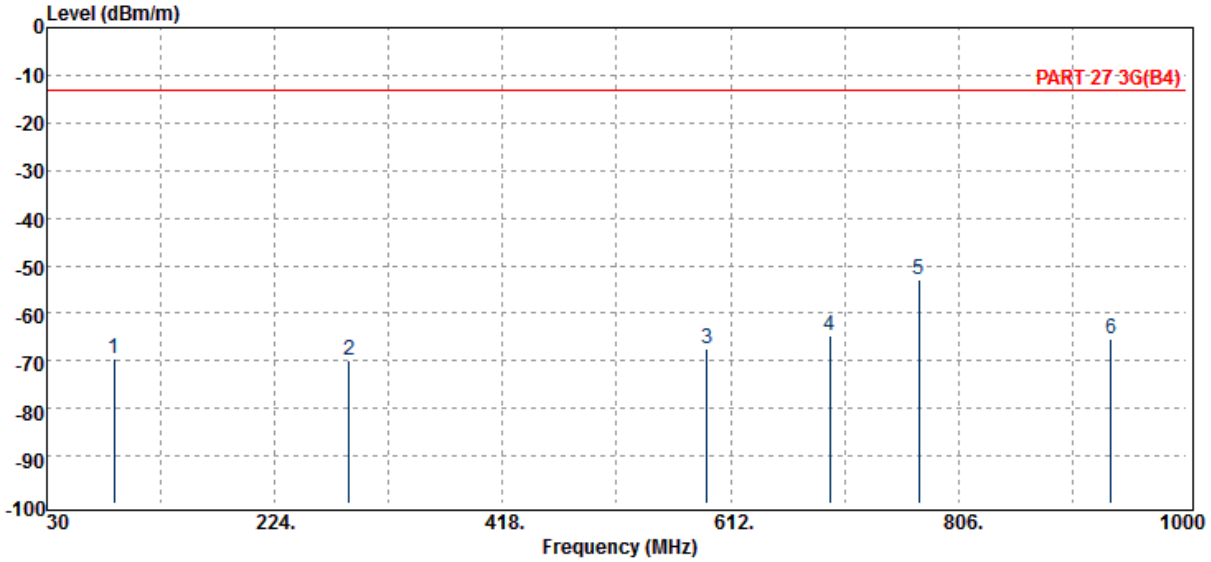
Operation Band	:WCDMA B4	Test Date	:2014-11-19
ARFCN	:CH 1513	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1752.6 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

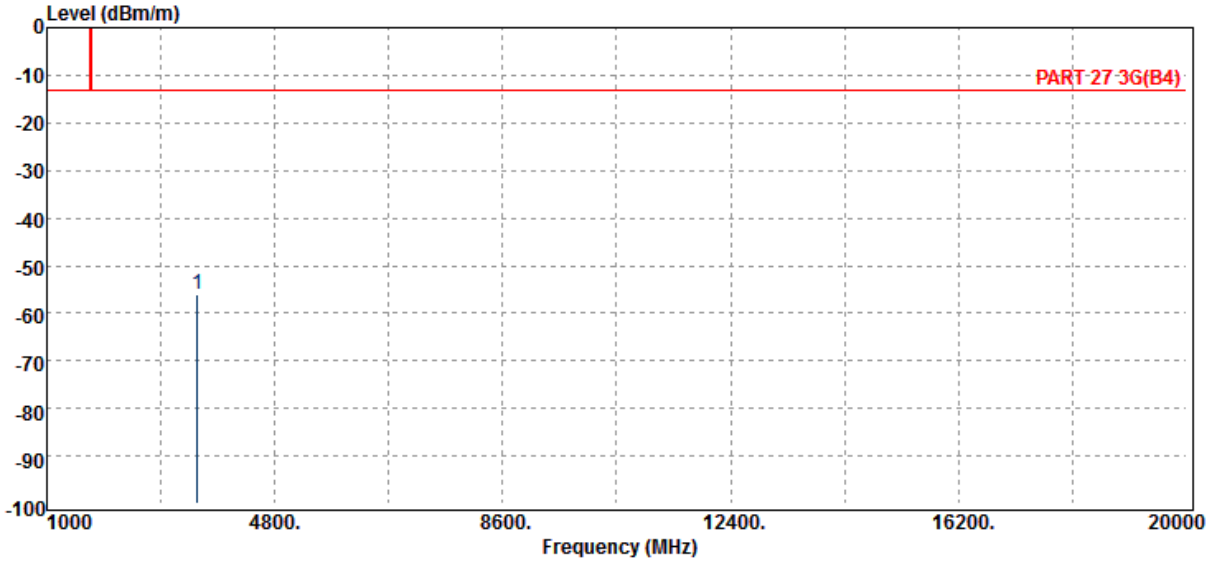




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Operation Band	:WCDMA B4	Test Date	:2014-11-19
ARFCN	:CH 1513	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1752.6 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

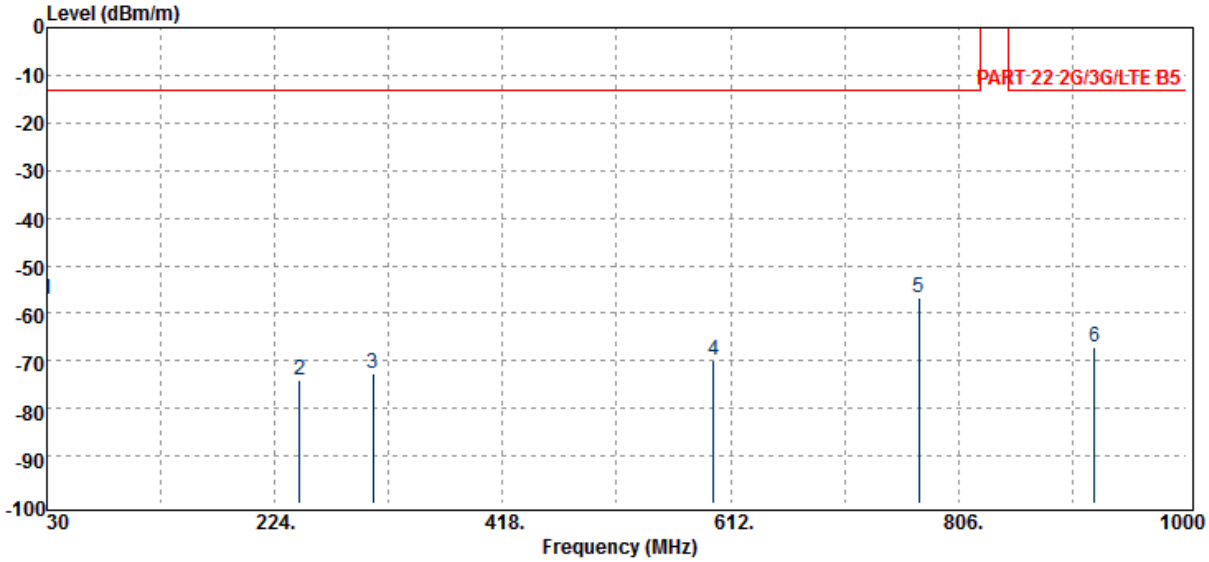


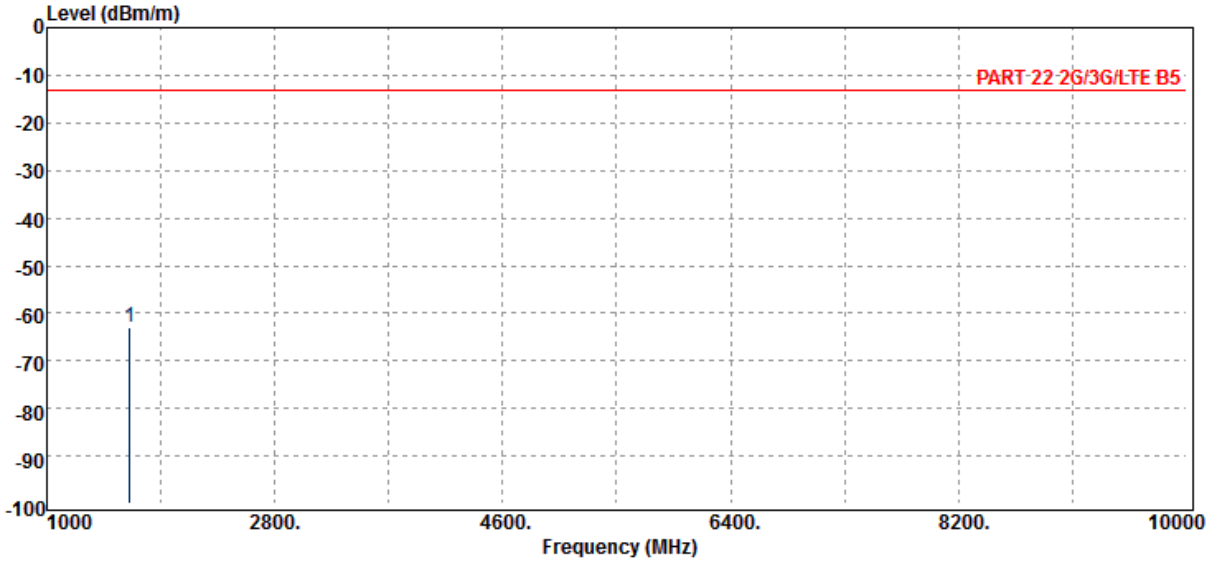


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Radiated Spurious Emission Measurement Result: WCDMA V Mode

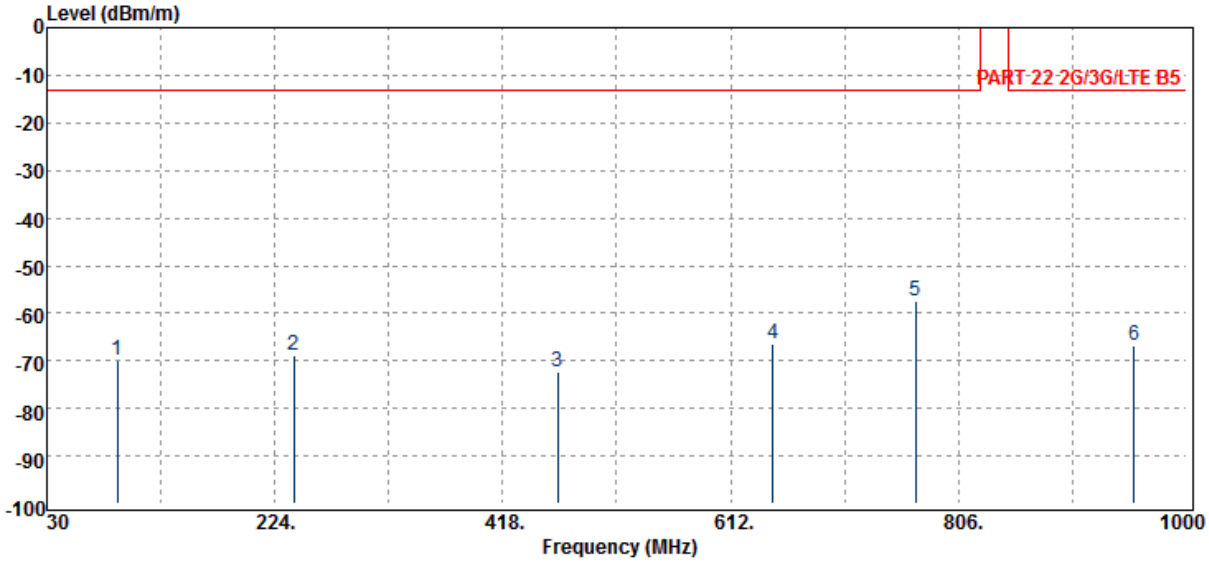
Operation Band	:WCDMA B5	Test Date	:2014-11-29
ARFCN	:CH 4132	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:826.4 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

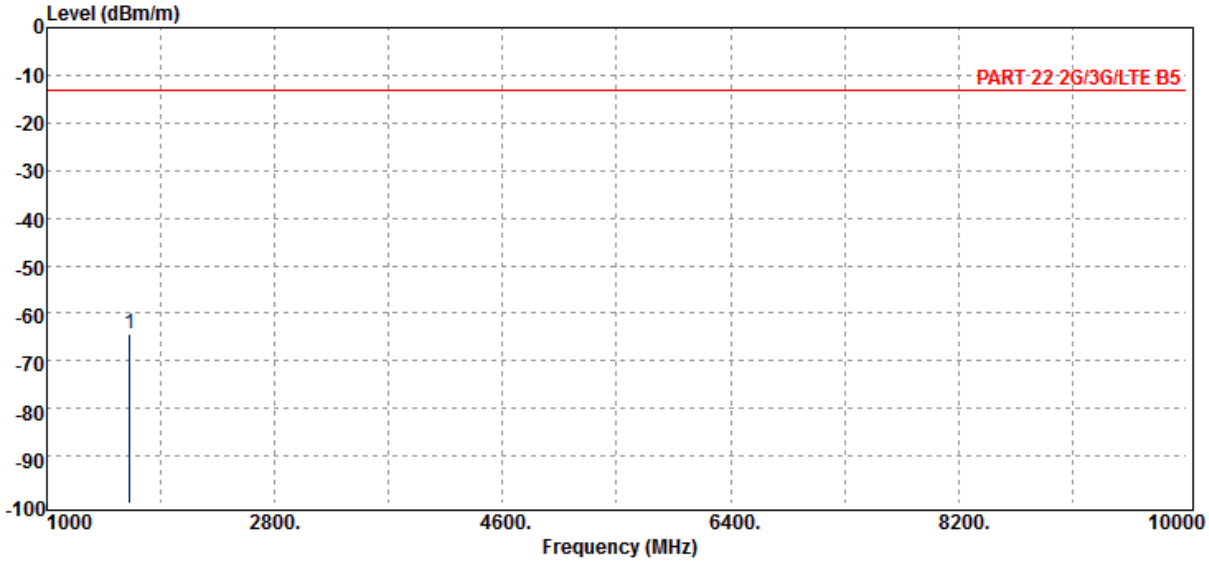




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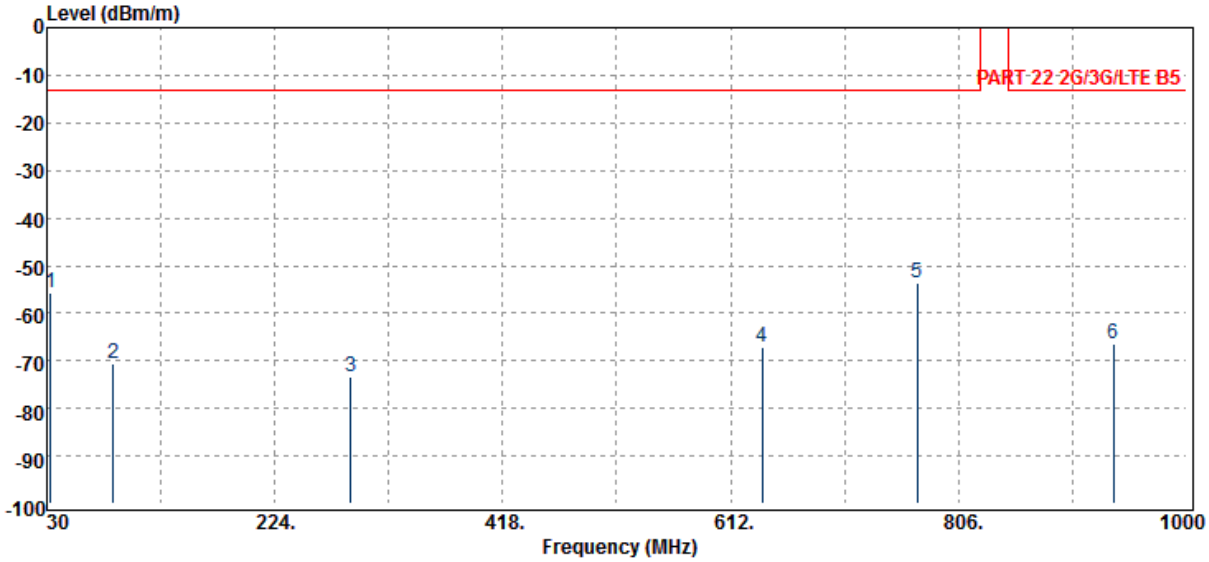
Operation Band	:WCDMA B5	Test Date	:2014-11-29
ARFCN	:CH 4132	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:826.4 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

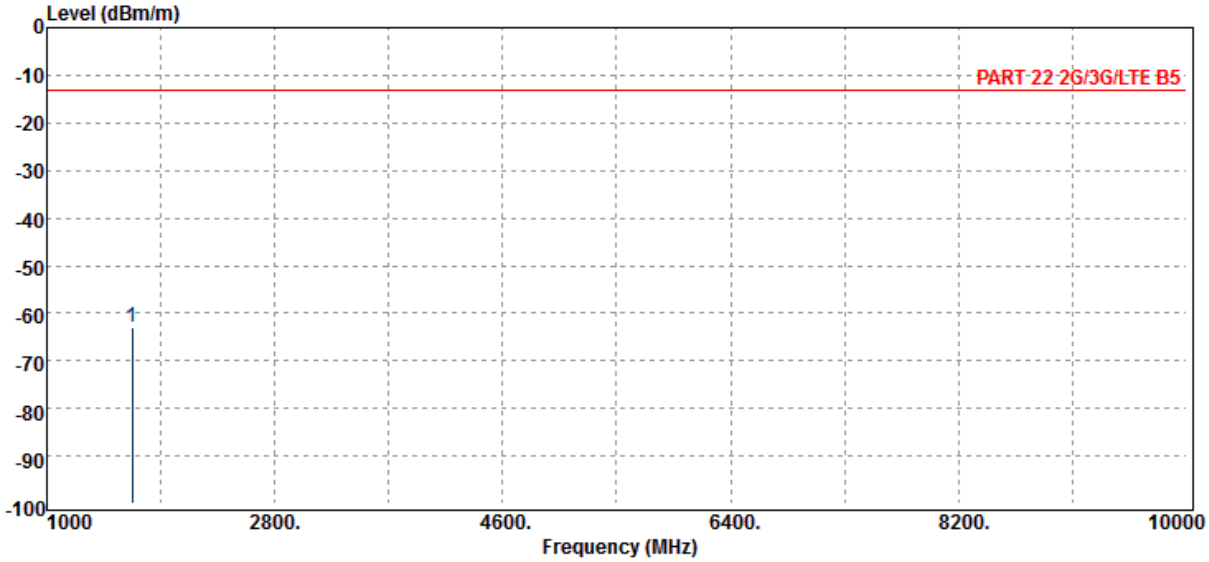




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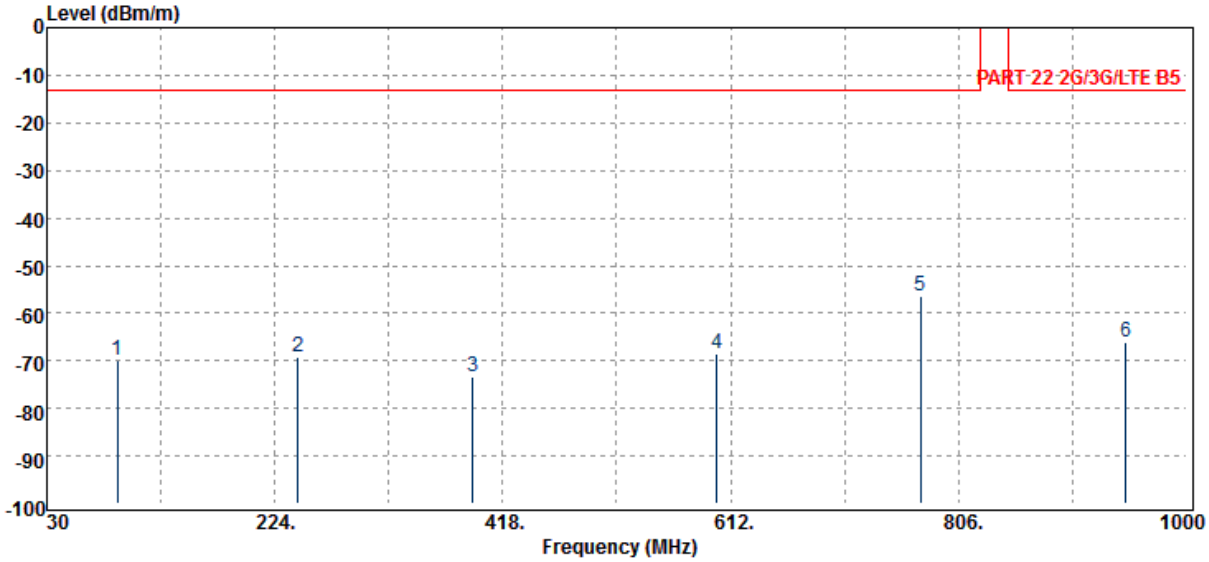
Operation Band	:WCDMA B5	Test Date	:2014-11-29
ARFCN	:CH 4183	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

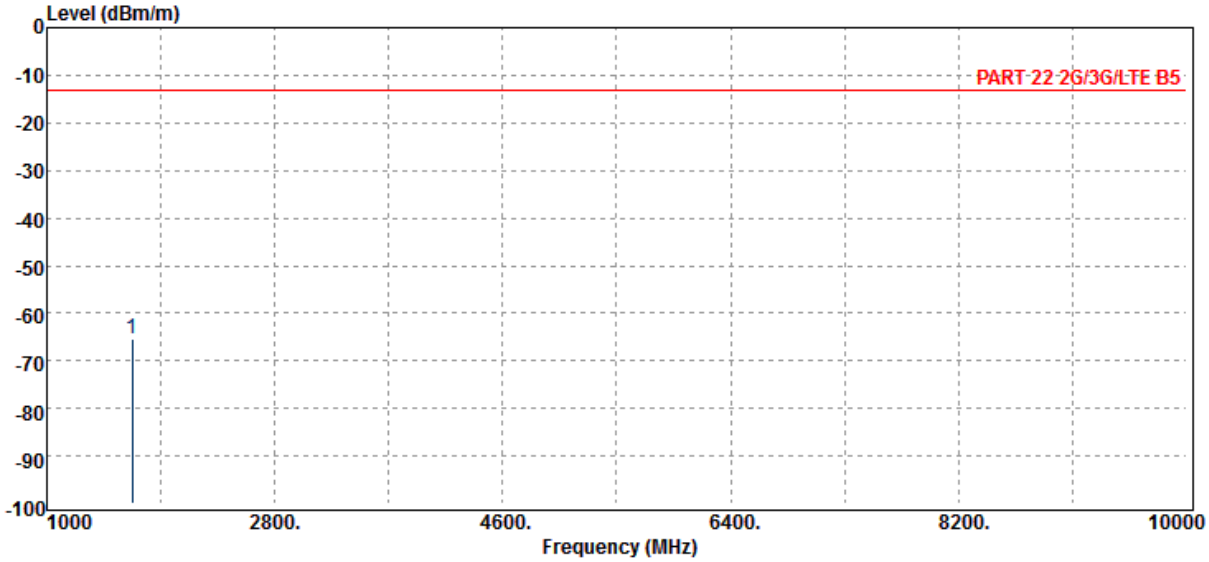




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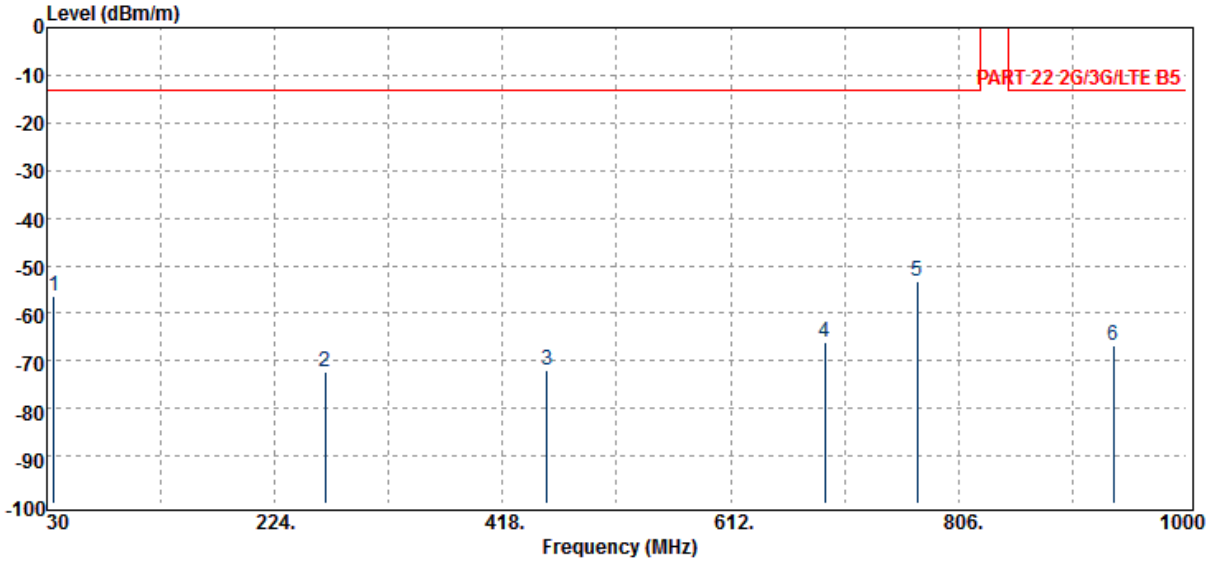
Operation Band	:WCDMA B5	Test Date	:2014-11-29
ARFCN	:CH 4183	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

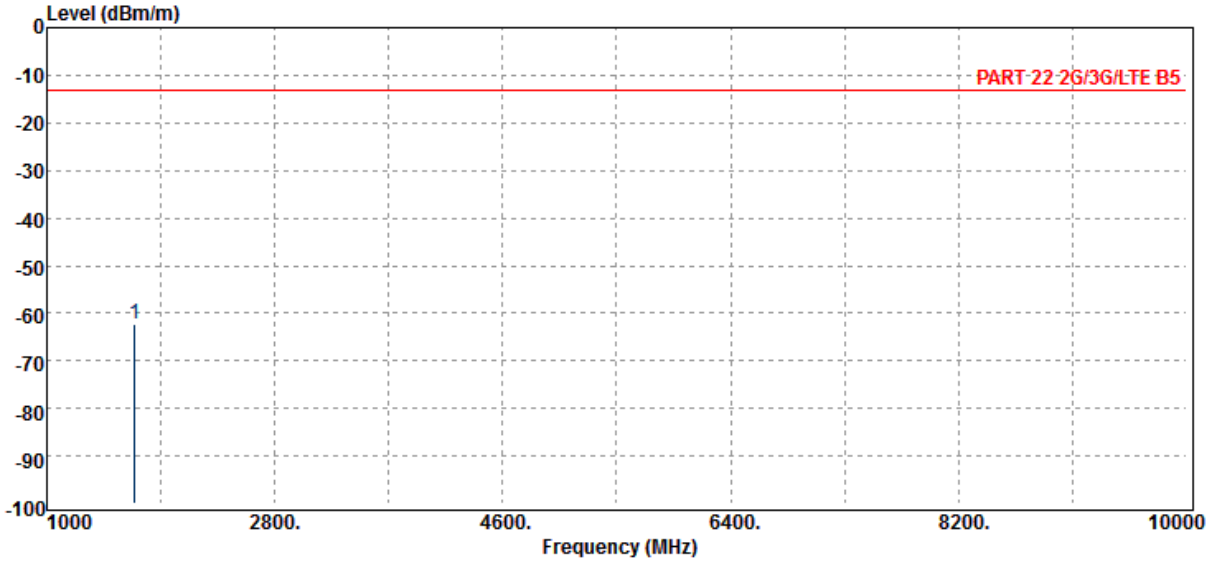




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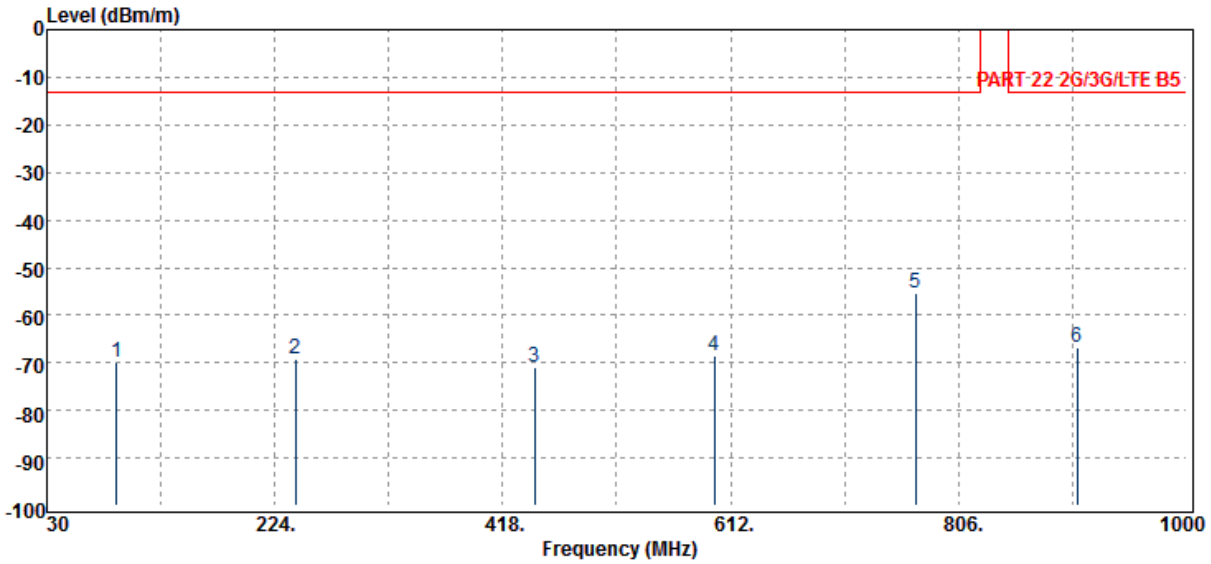
Operation Band	:WCDMA B5	Test Date	:2014-11-29
ARFCN	:CH 4233	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

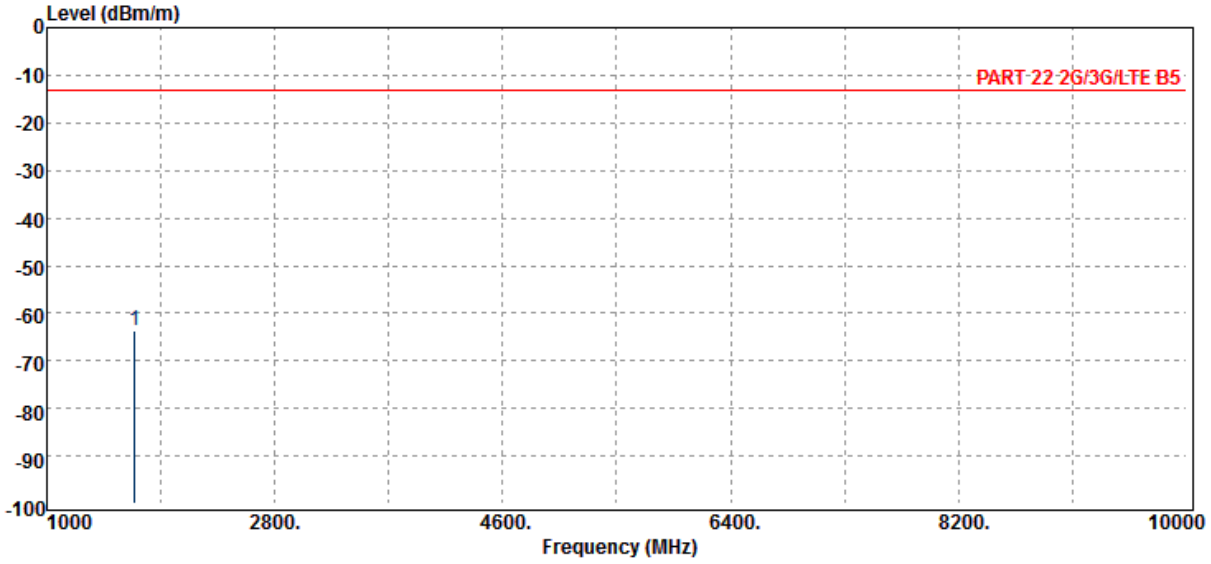




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Operation Band	:WCDMA B5	Test Date	:2014-11-29
ARFCN	:CH 4233	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

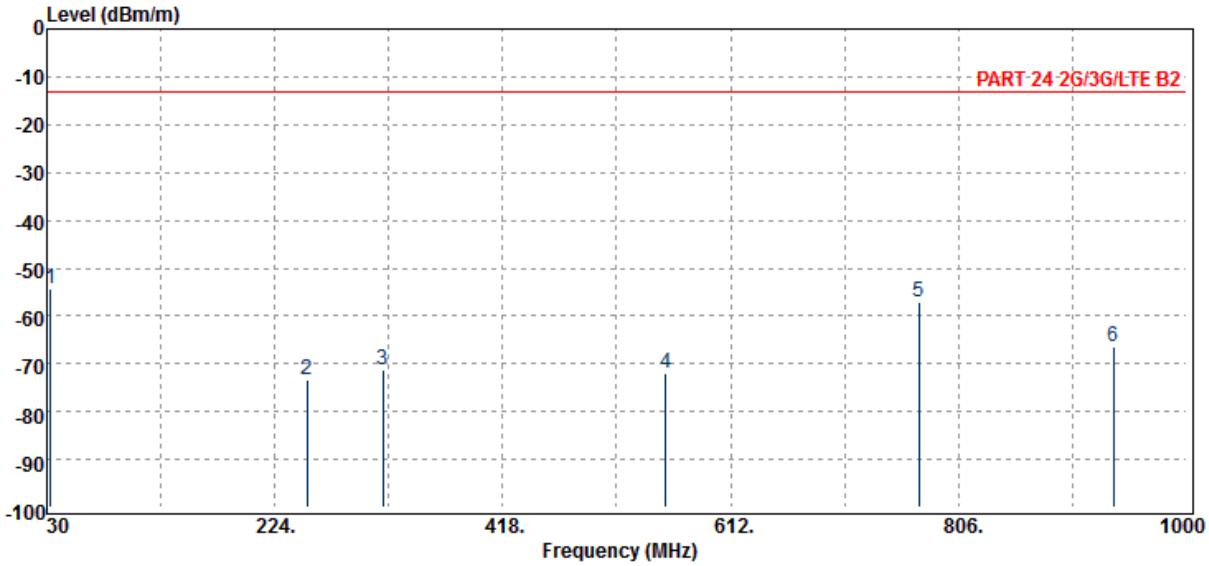


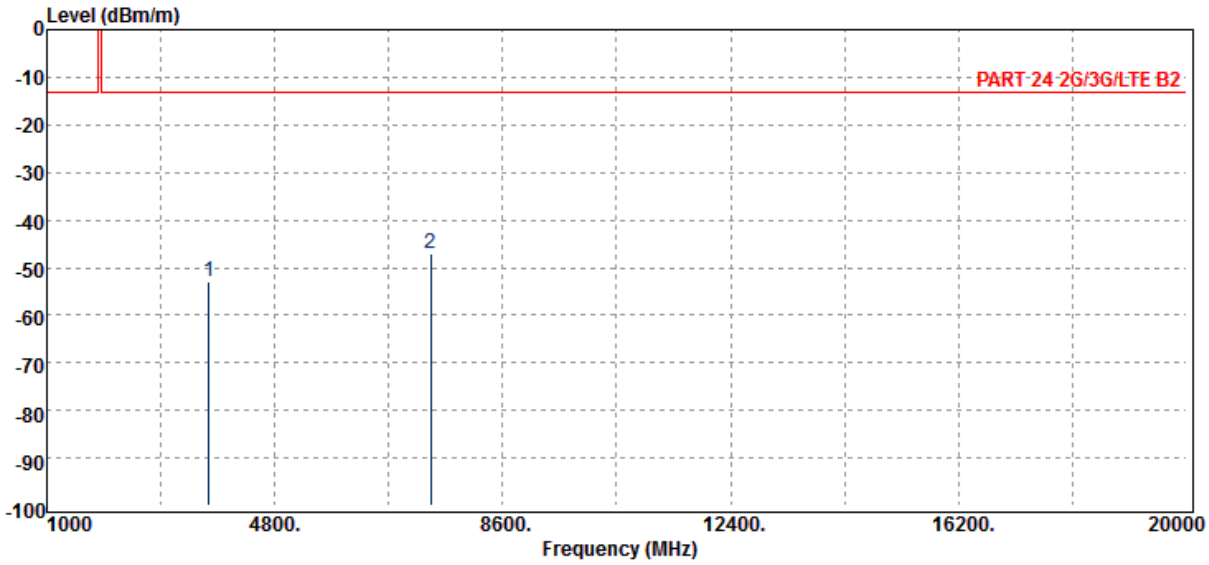


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Radiated Spurious Emission Measurement Result: 20MHz BW LTE-Band 2(The Worst Case)

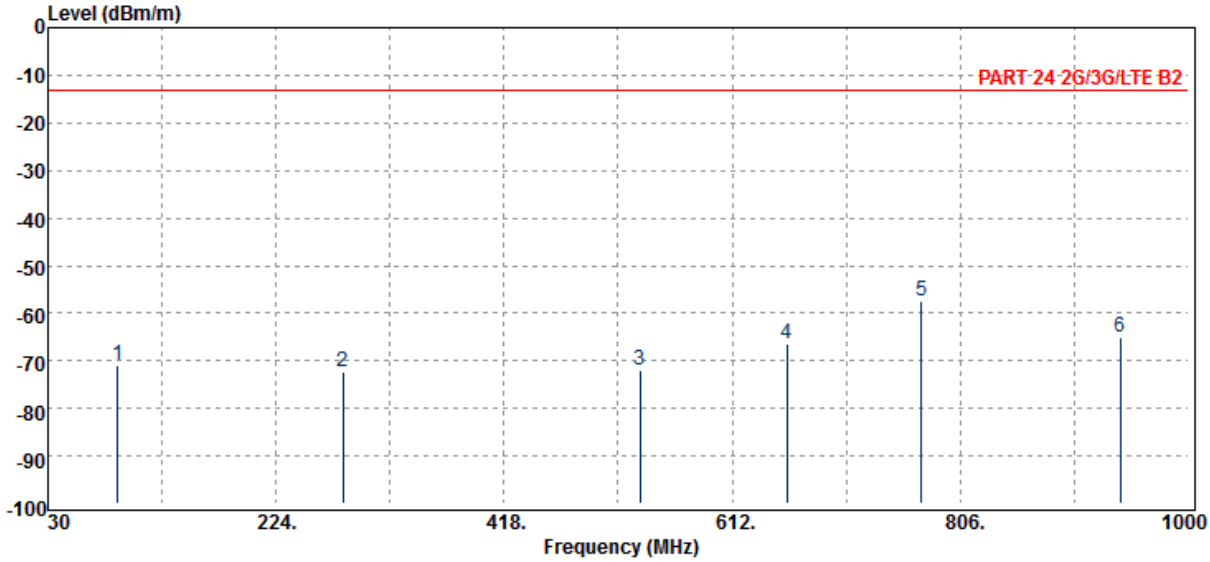
Operation Band	:LTE B2	Test Date	:2014-11-20
ARFCN	:CH 18607 16QAM BW 1.4 RB 1 5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1850.7 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

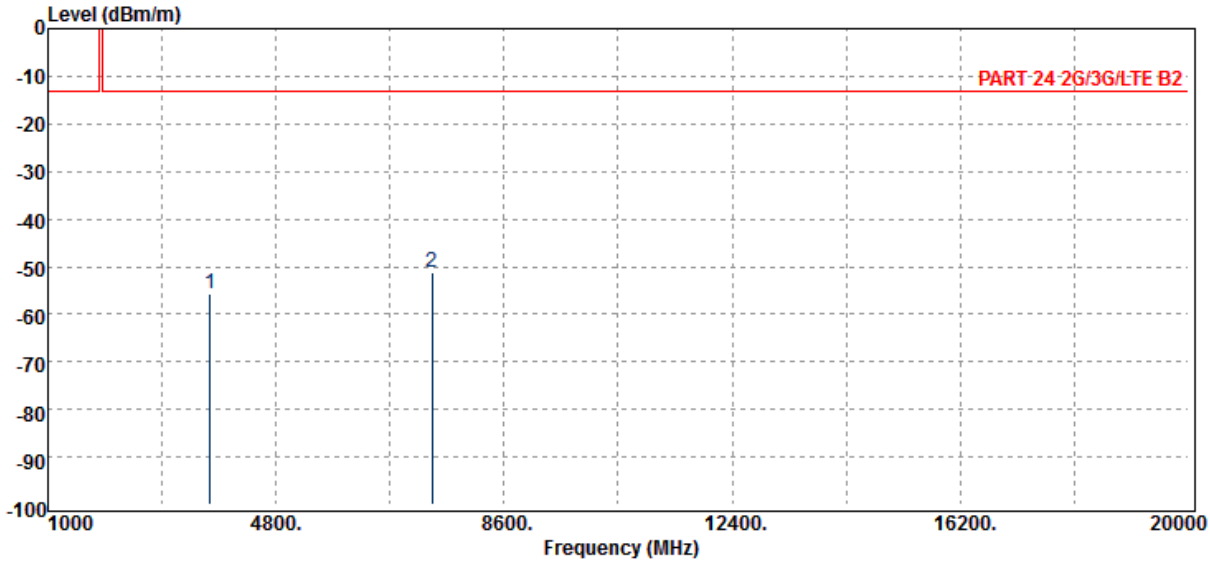




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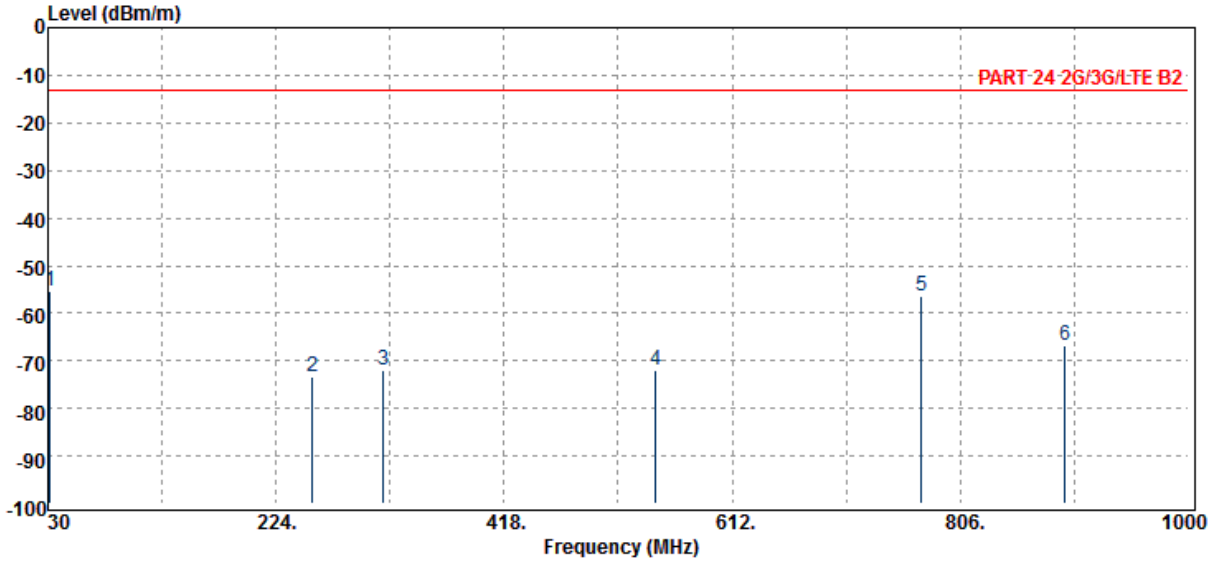
Operation Band	:LTE B2	Test Date	:2014-11-20
ARFCN	:CH 18607 16QAM BW 1.4 RB 1 5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1850.7 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

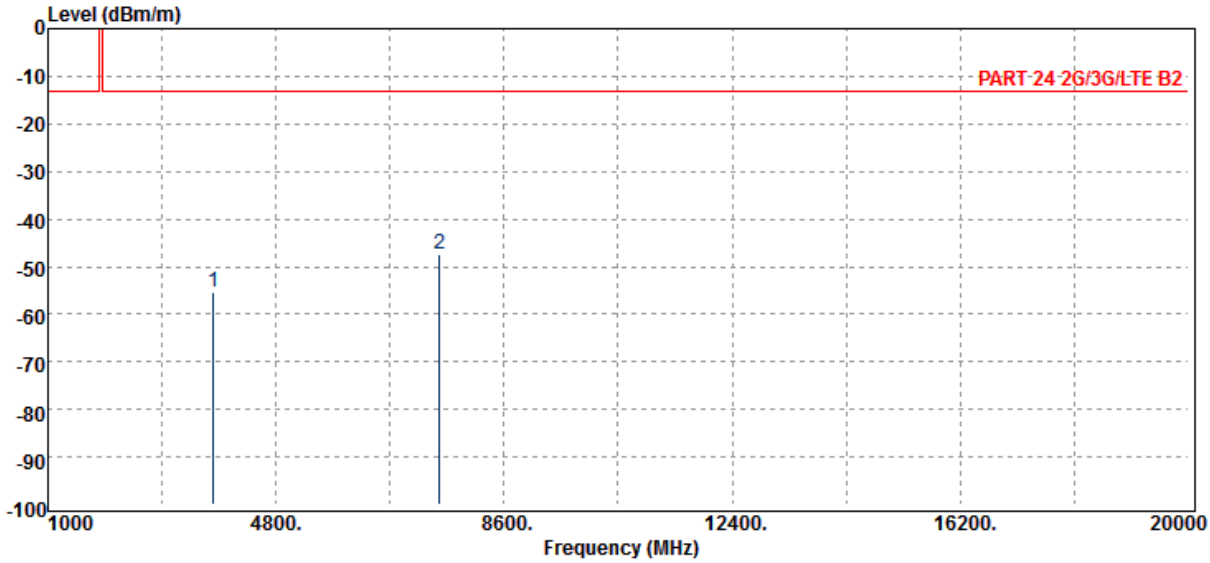




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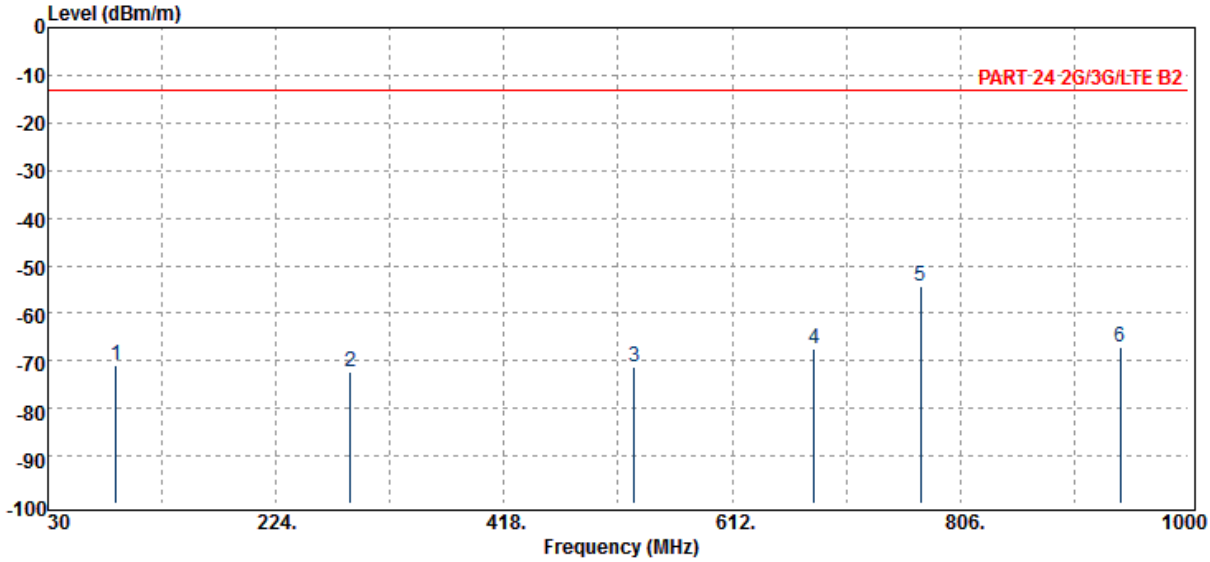
Operation Band	:LTE B2	Test Date	:2014-11-20
ARFCN	:CH 18900 16QAM BW 1.4 RB 1 5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1880 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

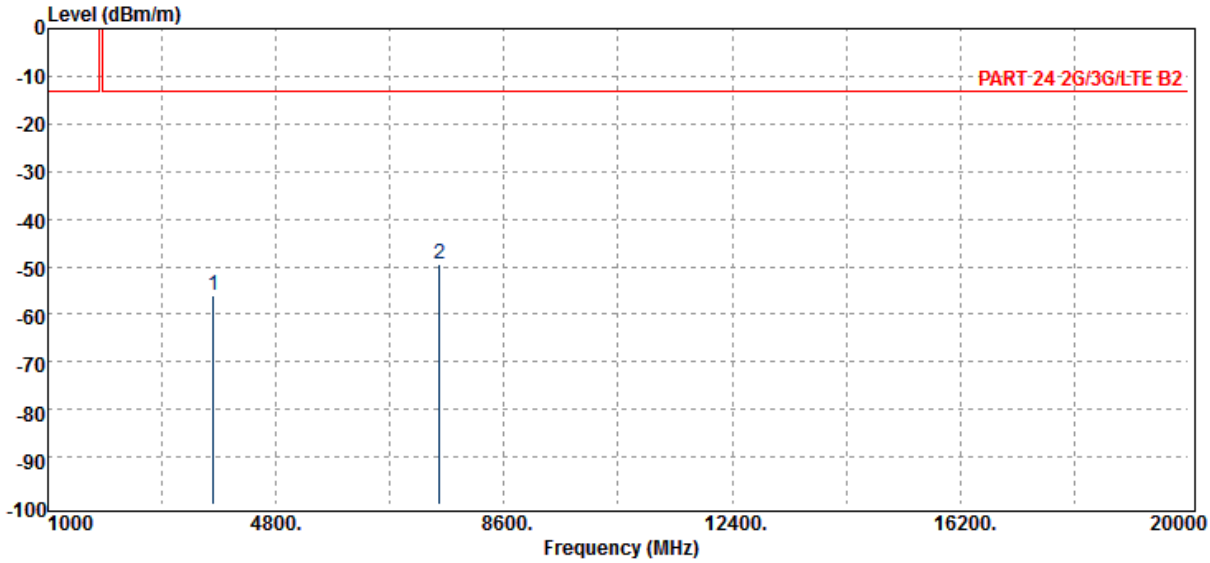




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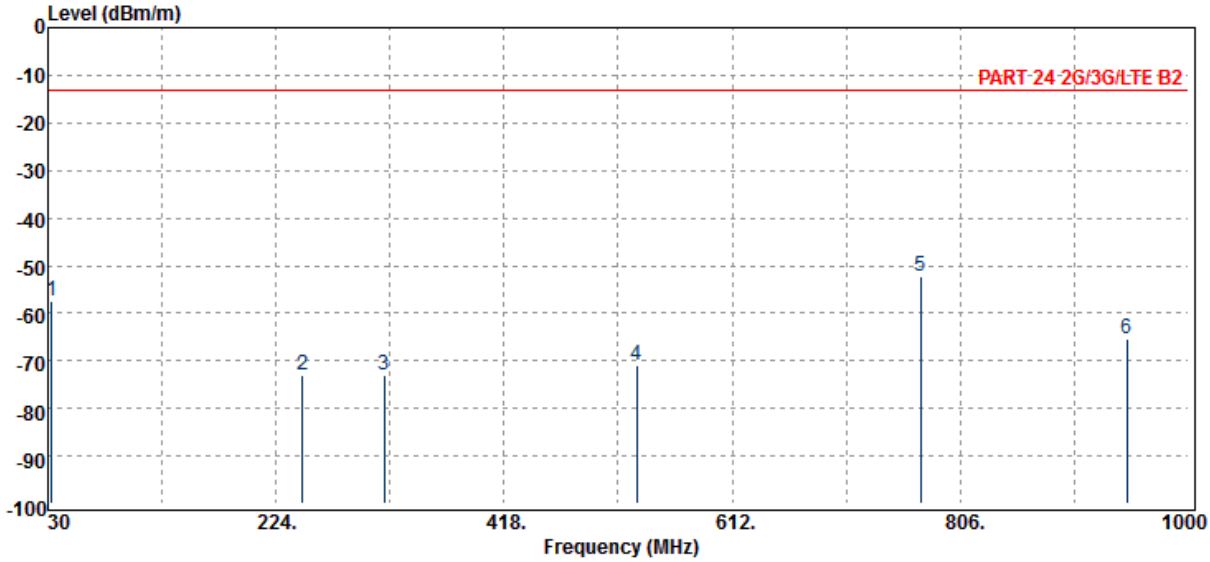
Operation Band	:LTE B2	Test Date	:2014-11-20
ARFCN	:CH 18900 16QAM BW 1.4 RB 1 5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1880 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

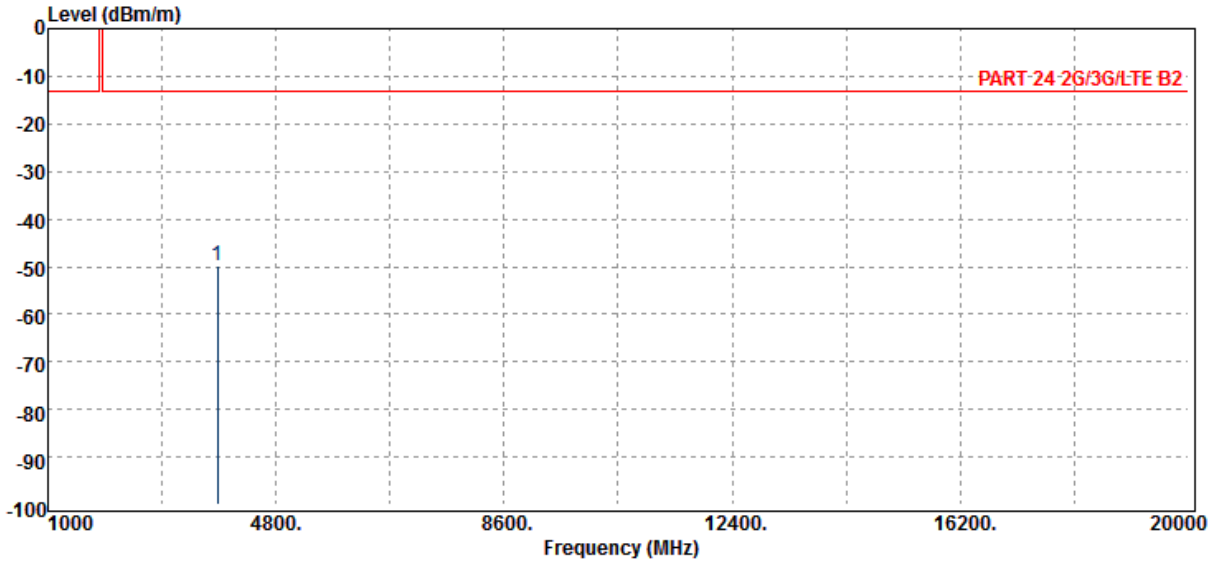




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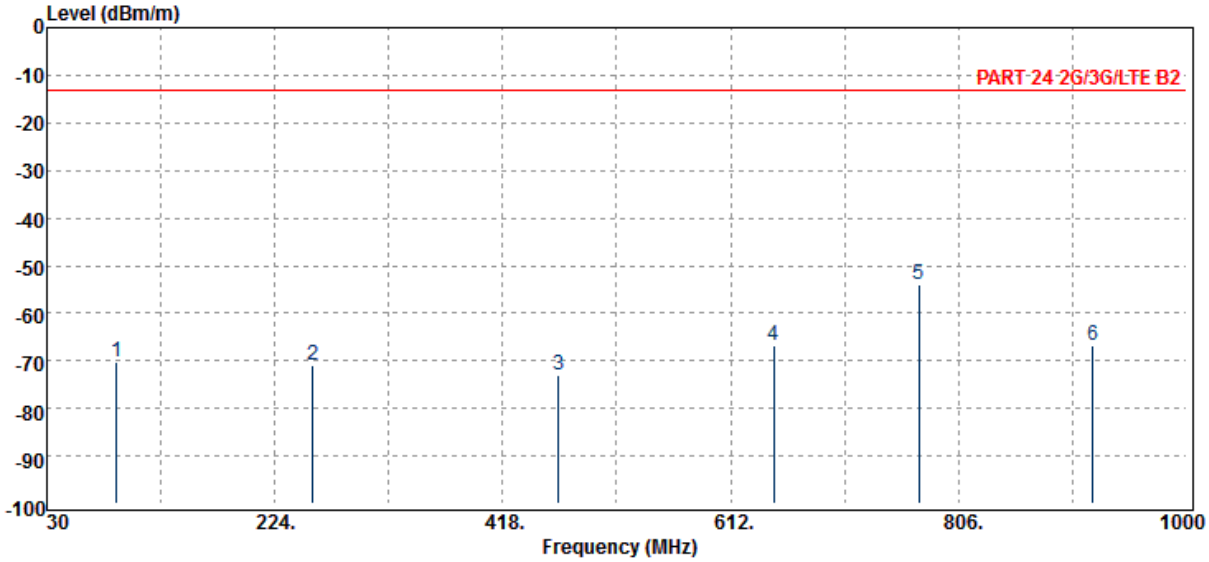
Operation Band	:LTE B2	Test Date	:2014-11-20
ARFCN	:CH 19193 16QAM BW 1.4 RB 1 5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1909.3 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

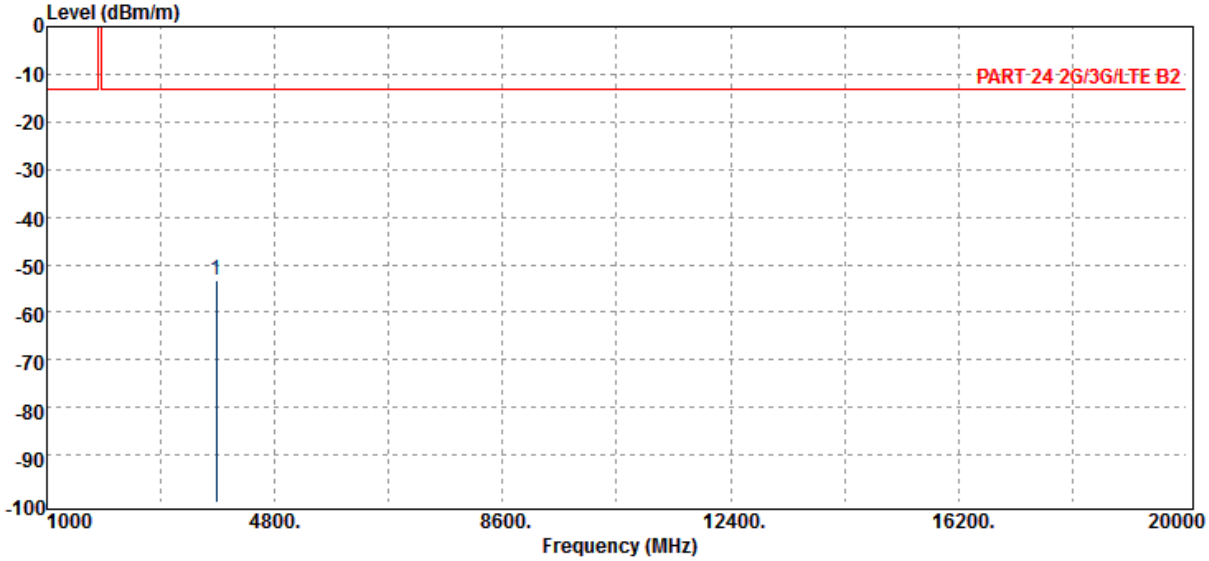




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Operation Band	:LTE B2	Test Date	:2014-11-20
ARFCN	:CH 19193 16QAM BW 1.4 RB 1 5	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1909.3 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

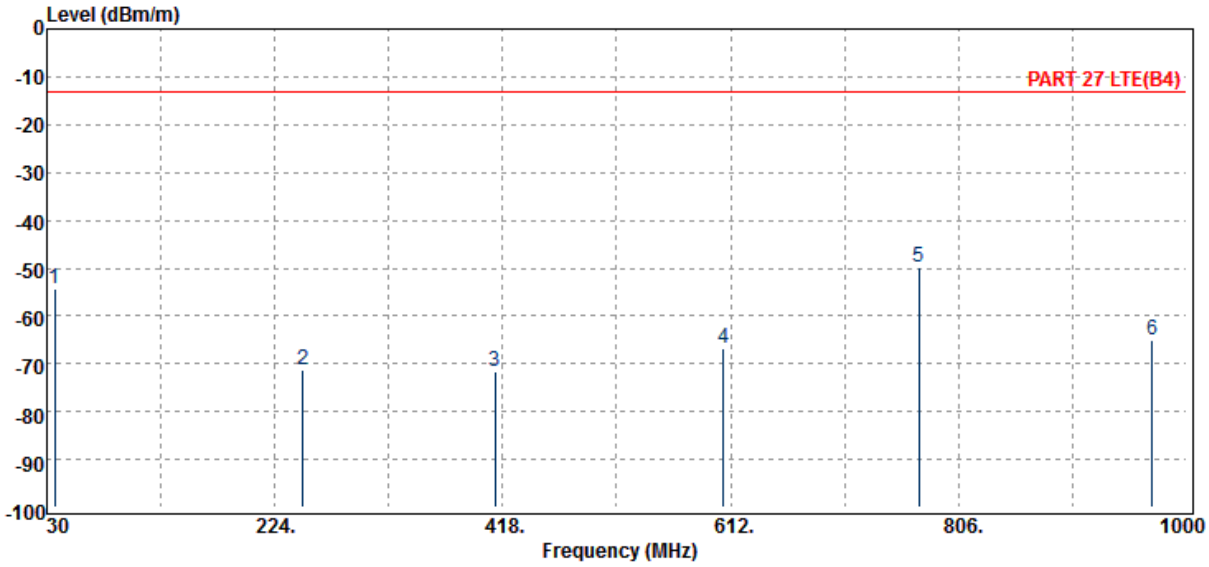


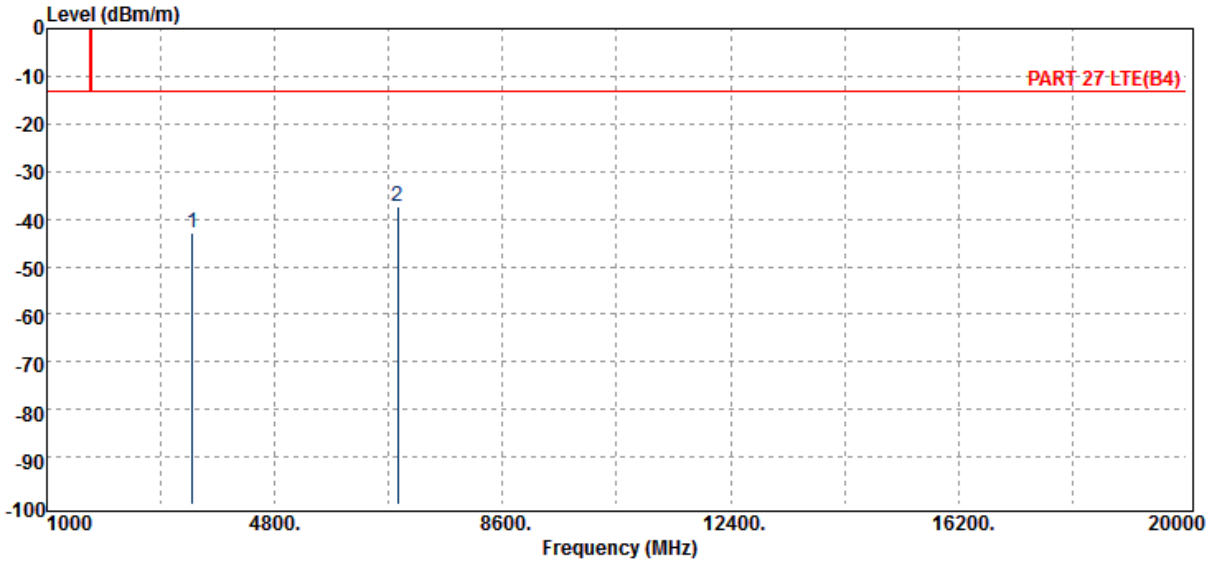


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Radiated Spurious Emission Measurement Result: 3MHz BW LTE-Band 4(The Worst Case)

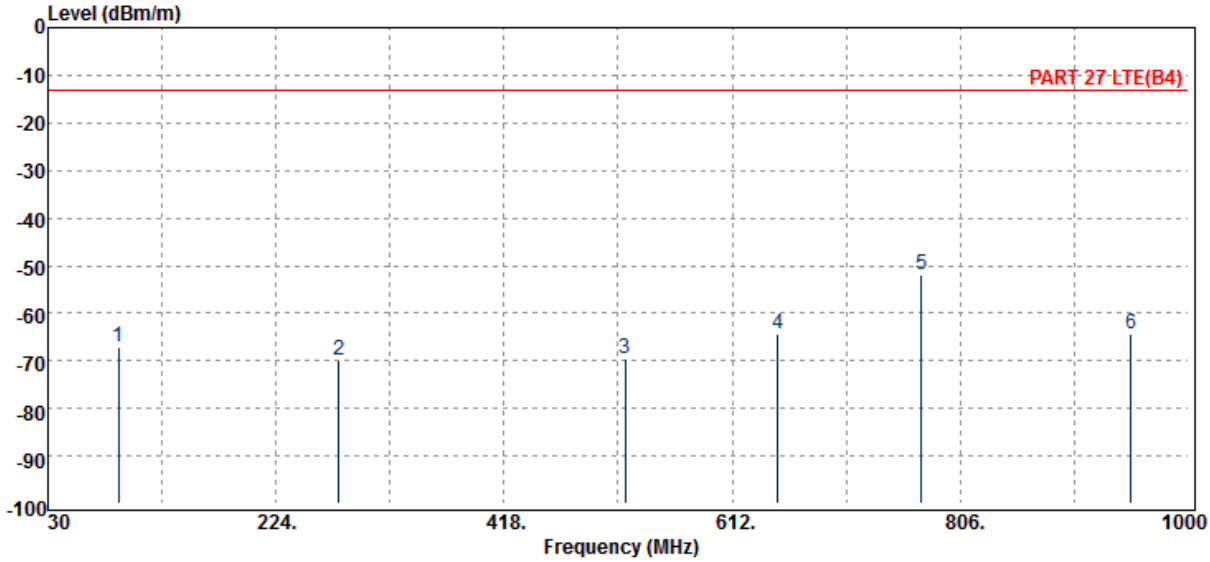
Operation Band	:LTE B4	Test Date	:2014-11-20
ARFCN	:CH 19965 16QAM BW 3 RB 1 0	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1711.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

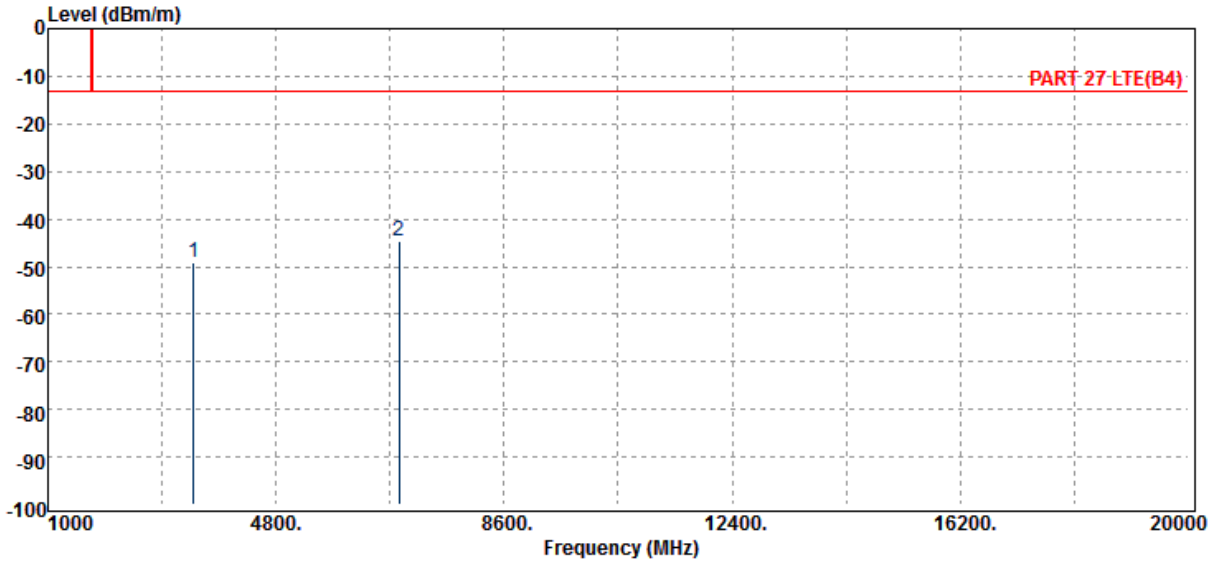




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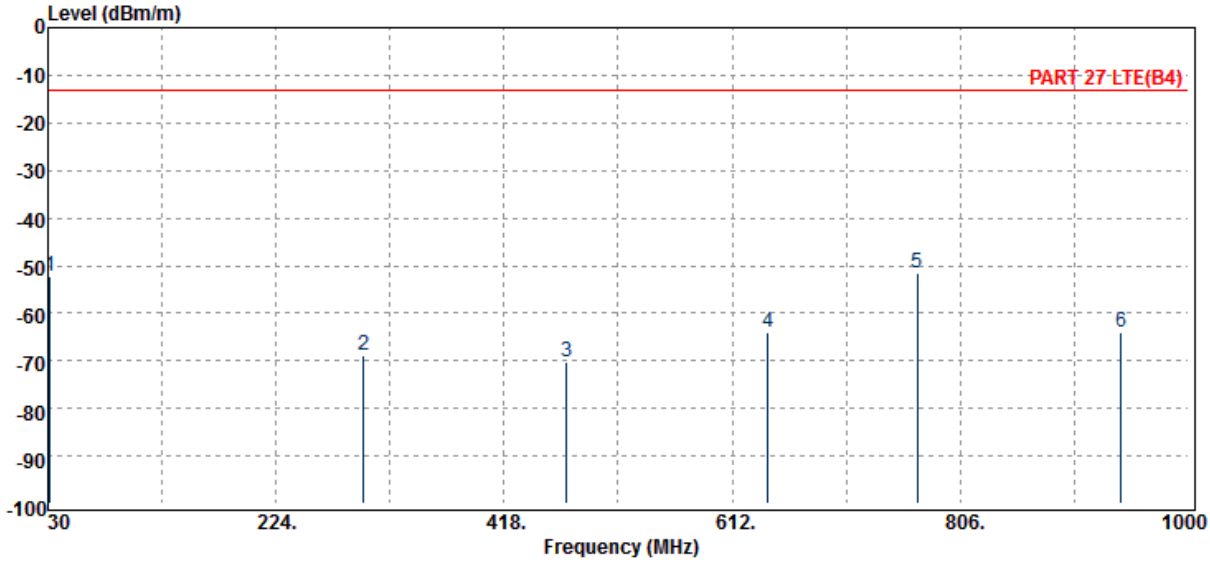
Operation Band	:LTE B4	Test Date	:2014-11-20
ARFCN	:CH 19965 16QAM BW 3 RB 1 0	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1711.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

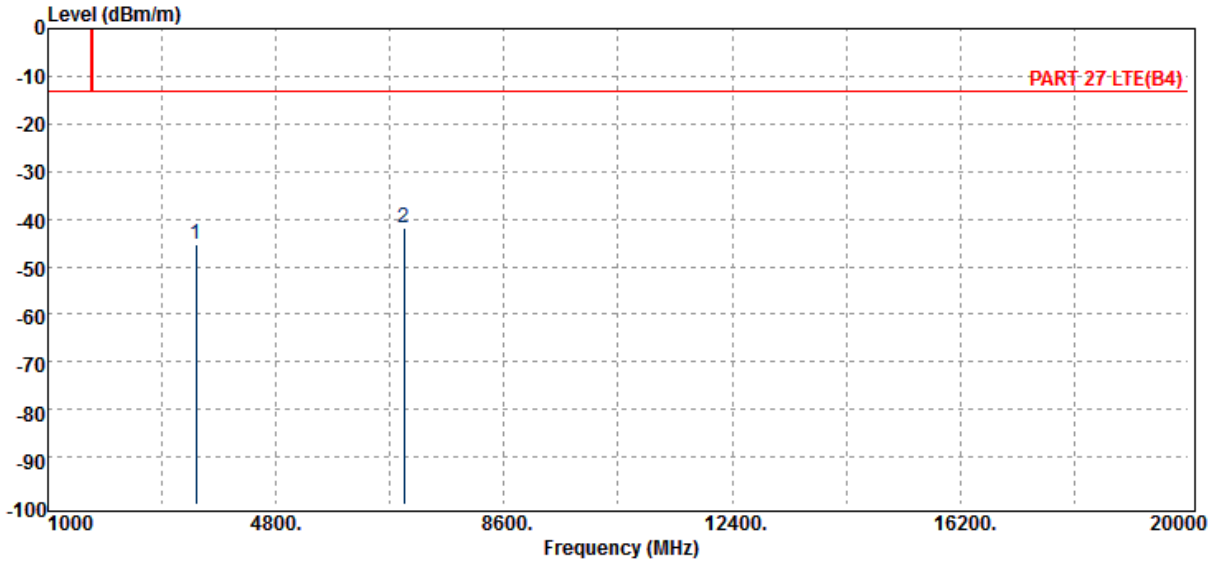




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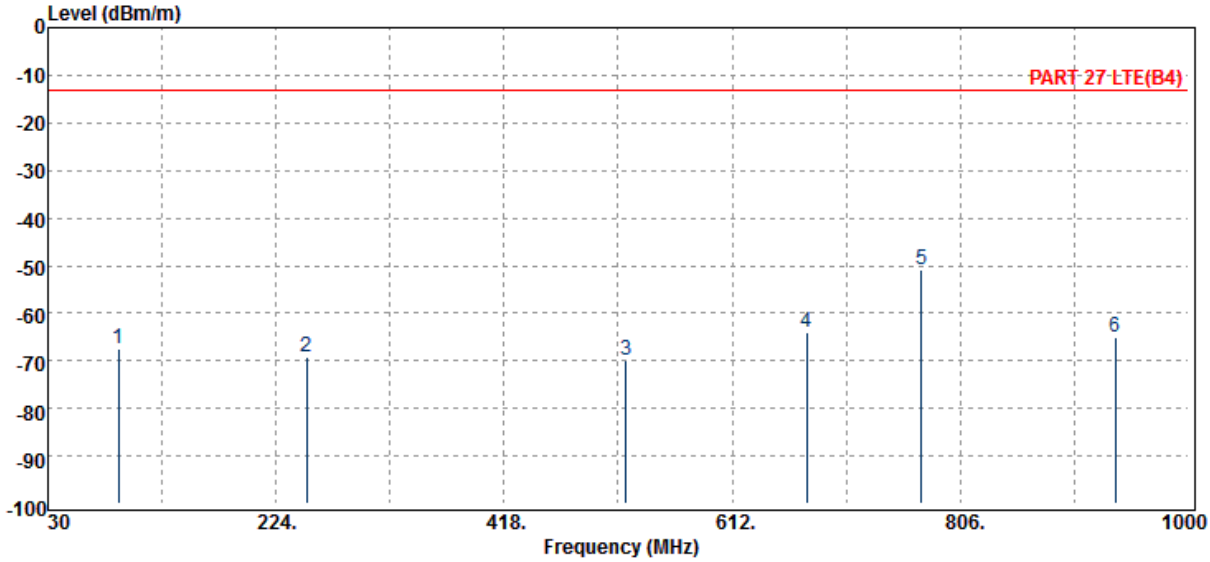
Operation Band	:LTE B4	Test Date	:2014-11-20
ARFCN	:CH 20175 16QAM BW 3 RB 1 0	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1732.5 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

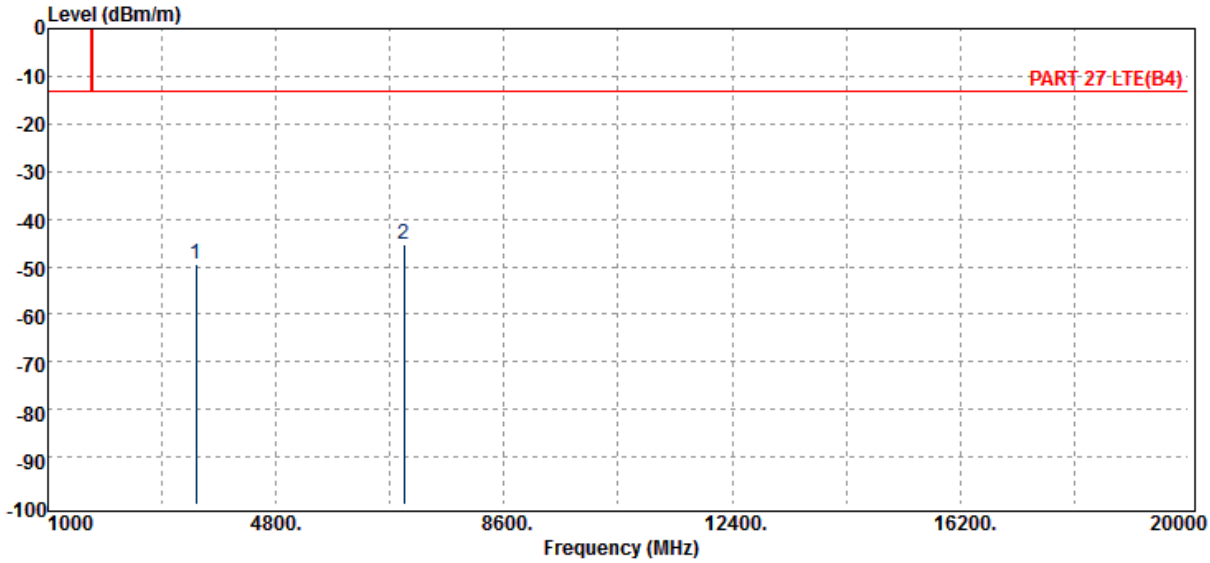




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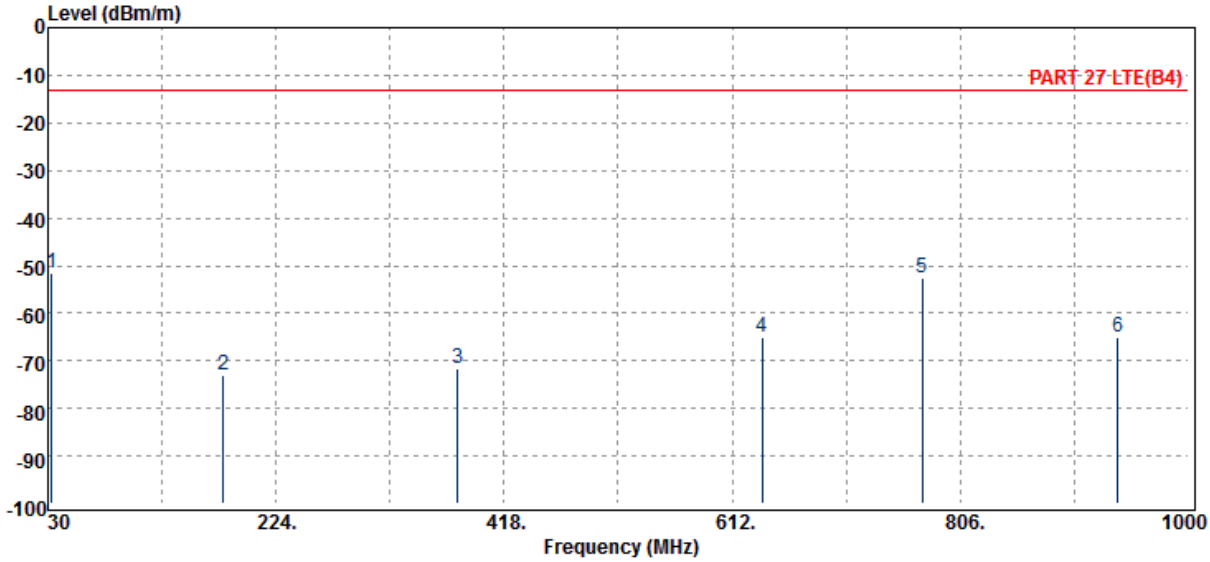
Operation Band	:LTE B4	Test Date	:2014-11-20
ARFCN	:CH 20175 16QAM BW 3 RB 1 0	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1732.5 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

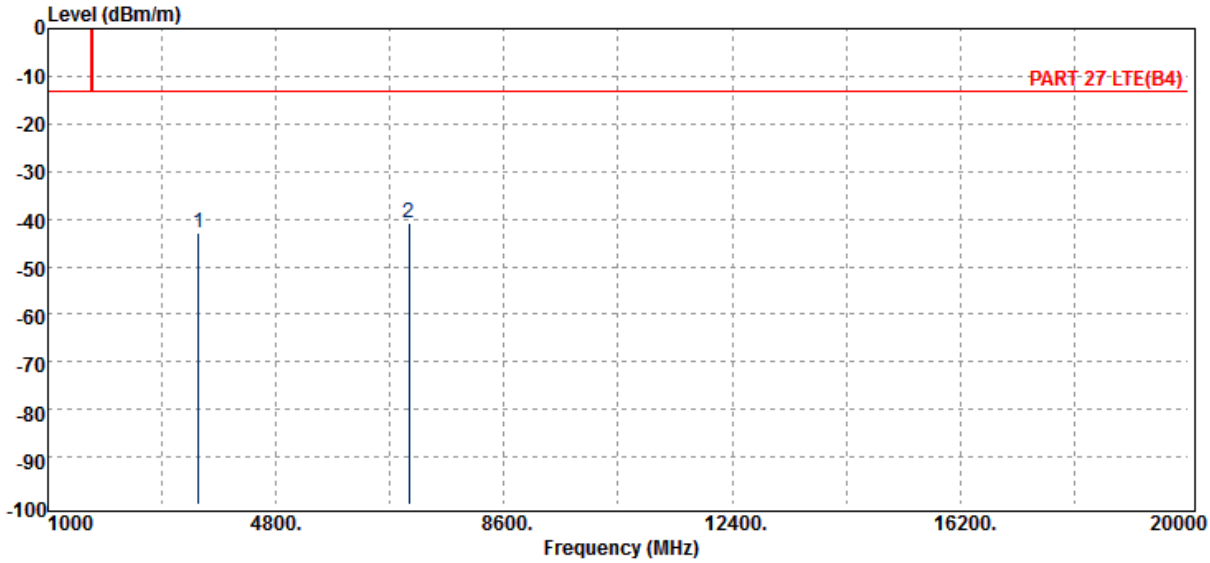




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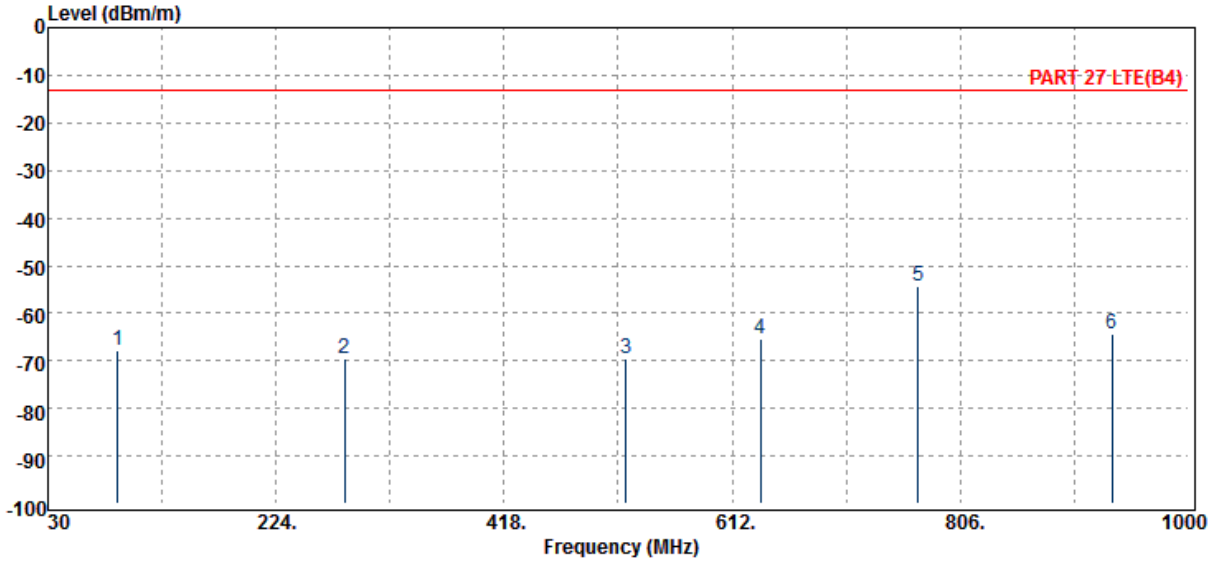
Operation Band	:LTE B4	Test Date	:2014-11-20
ARFCN	:CH 20385 16QAM BW 3 RB 1 0	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1753.5 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

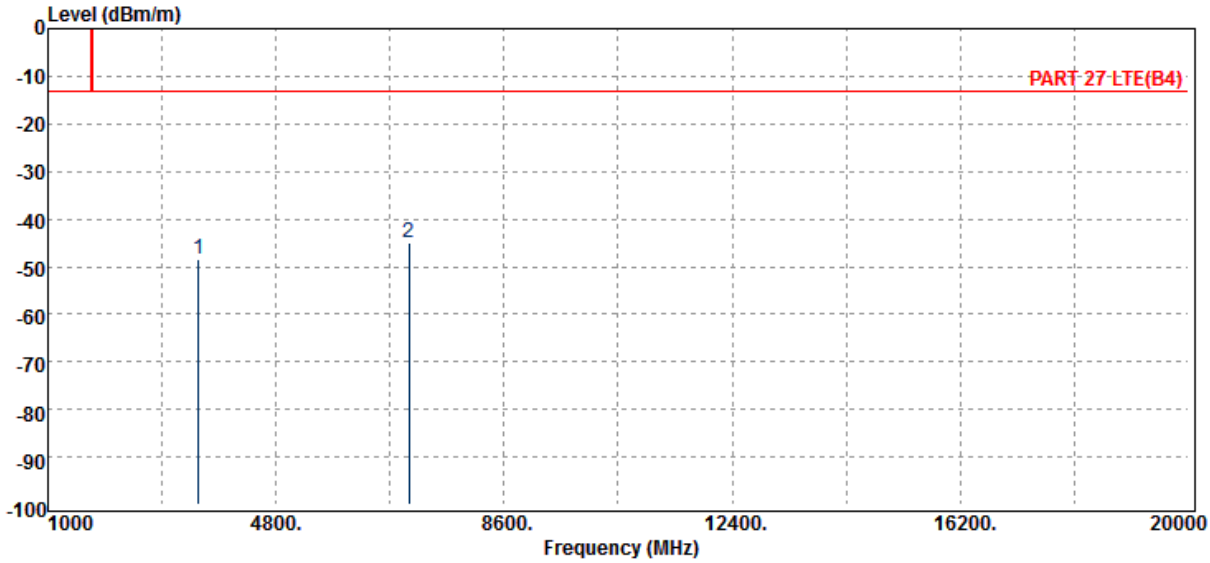




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Operation Band	:LTE B4	Test Date	:2014-11-20
ARFCN	:CH 20385 16QAM BW 3 RB 1 0	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:1753.5 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

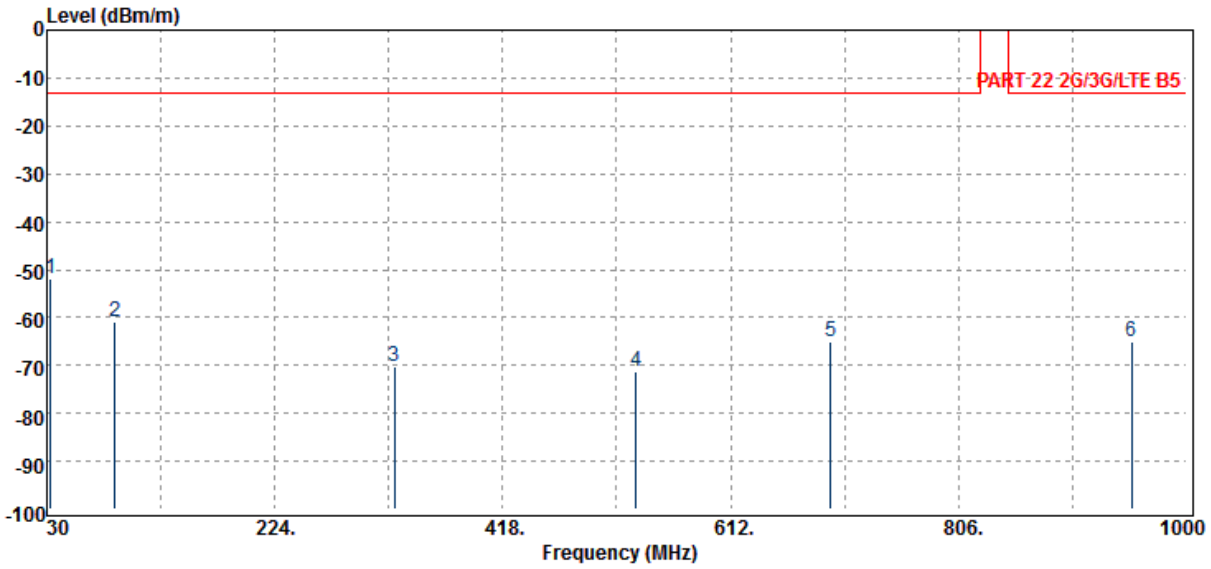


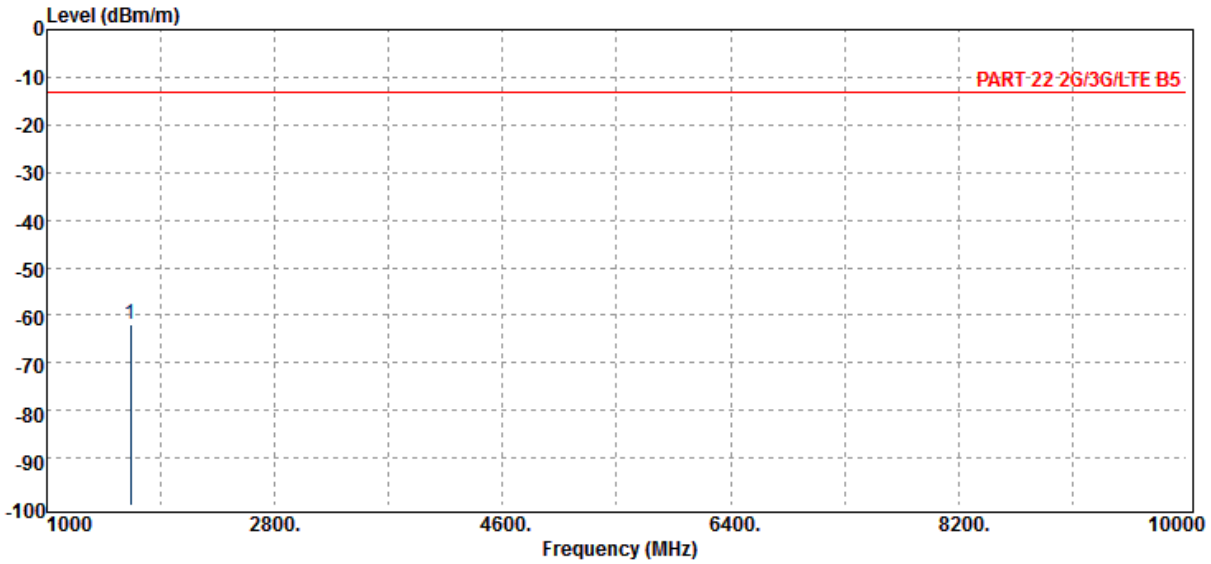


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Radiated Spurious Emission Measurement Result: 10MHz BW LTE-Band5(The Worst Case)

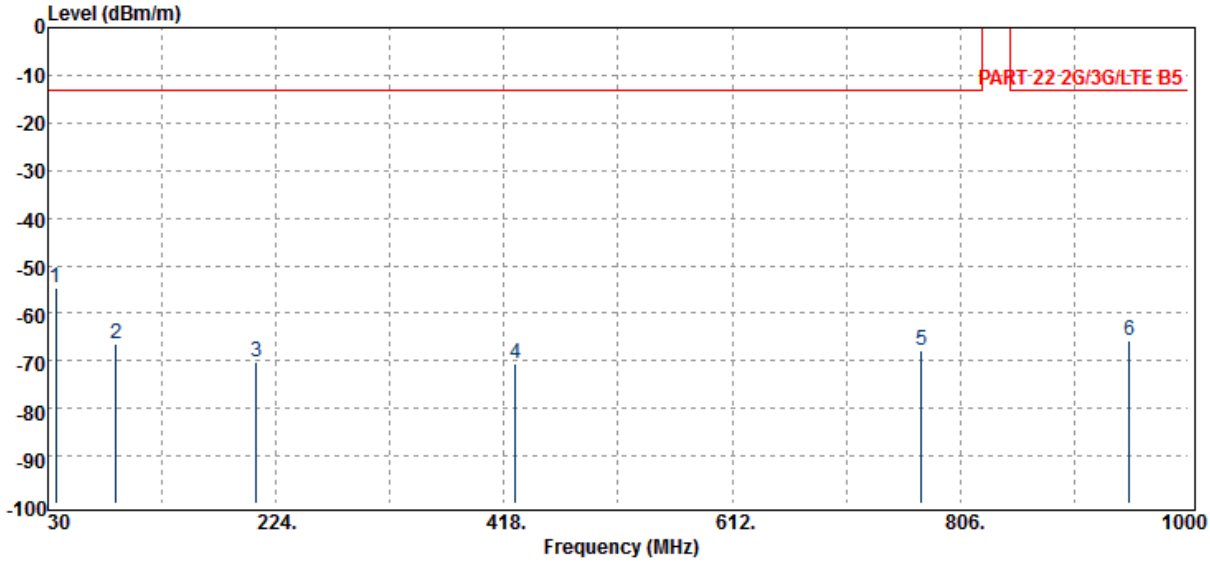
Operation Band	:LTE B5	Test Date	:2014-11-29
ARFCN	:CH 20450 16QAM BW 10 RB 1 0	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:829 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

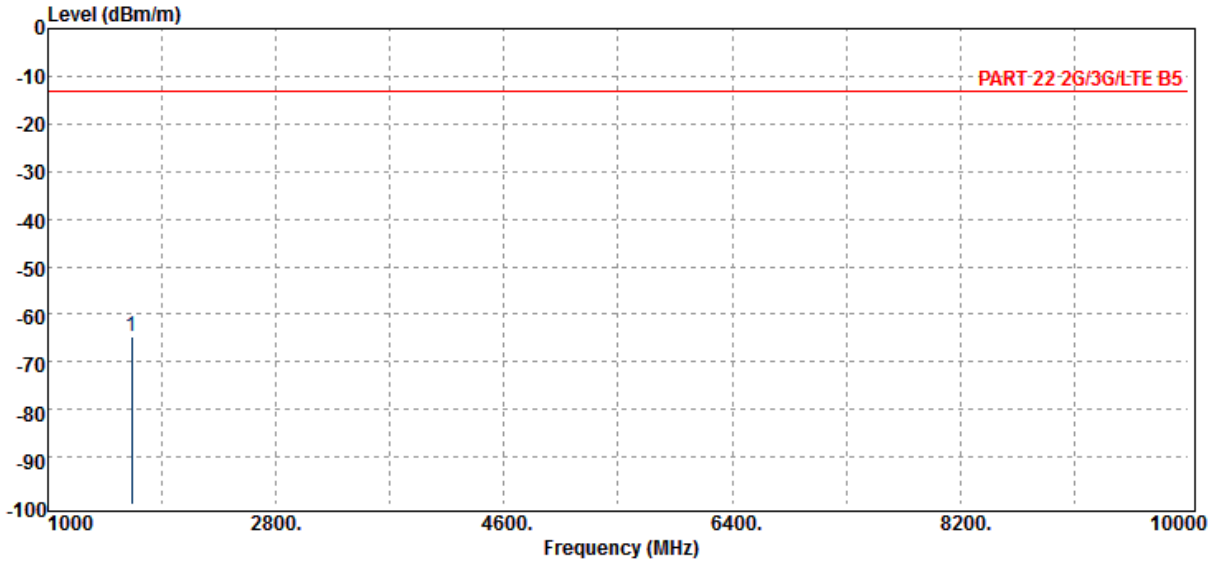




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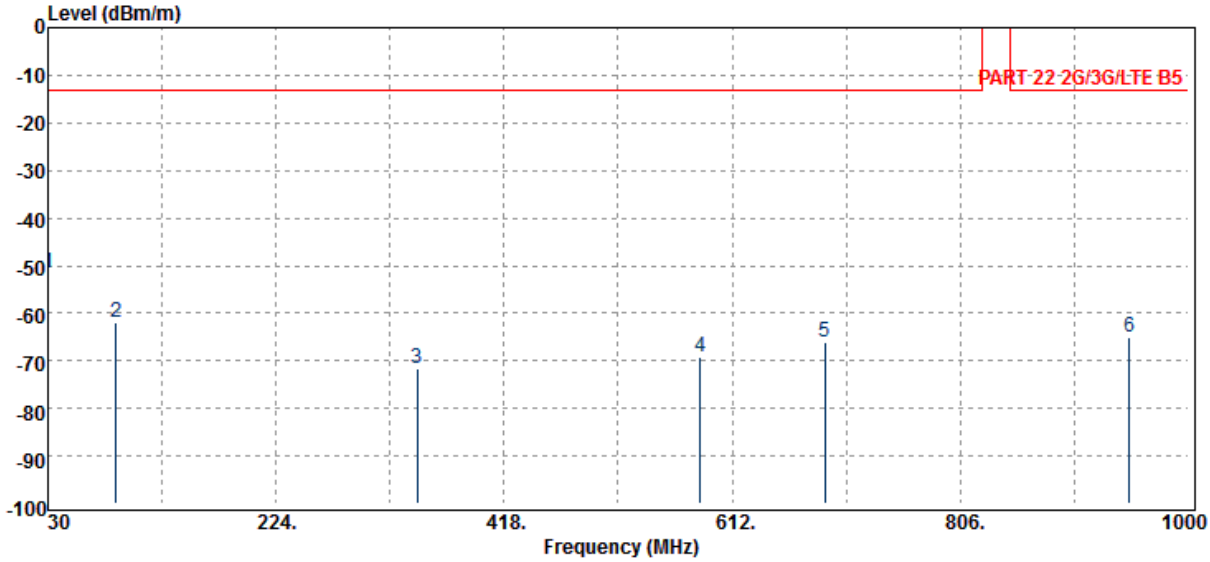
Operation Band	:LTE B5	Test Date	:2014-11-29
ARFCN	:CH 20450 16QAM BW 10 RB 1 0	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:829 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

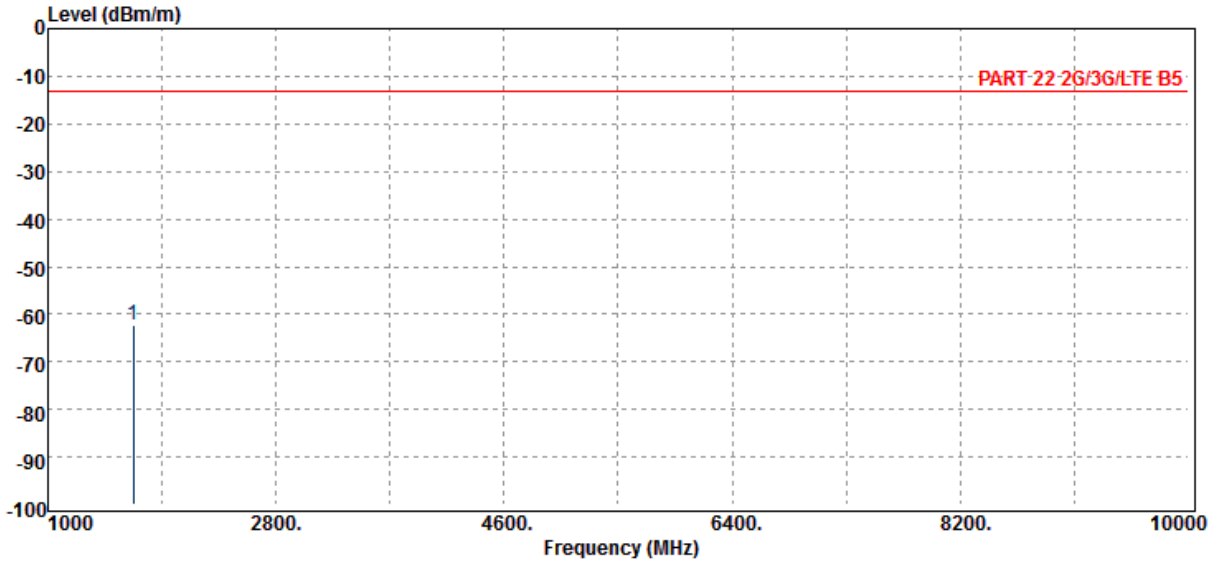




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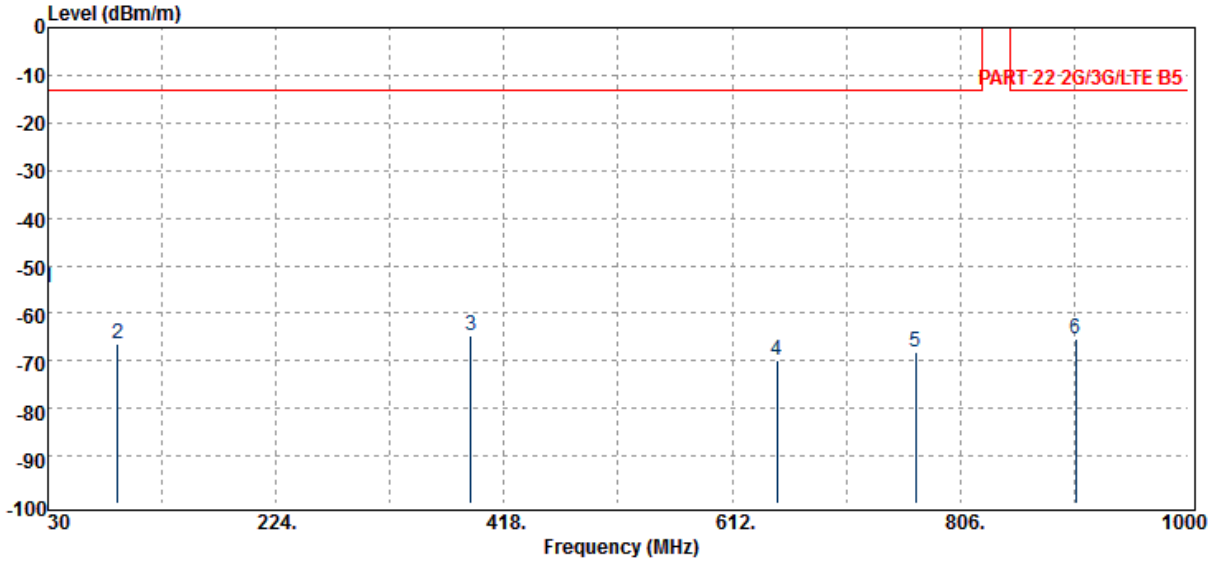
Operation Band	:LTE B5	Test Date	:2014-11-29
ARFCN	:CH 20525 16QAM BW 10 RB 1 0	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:836.5 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

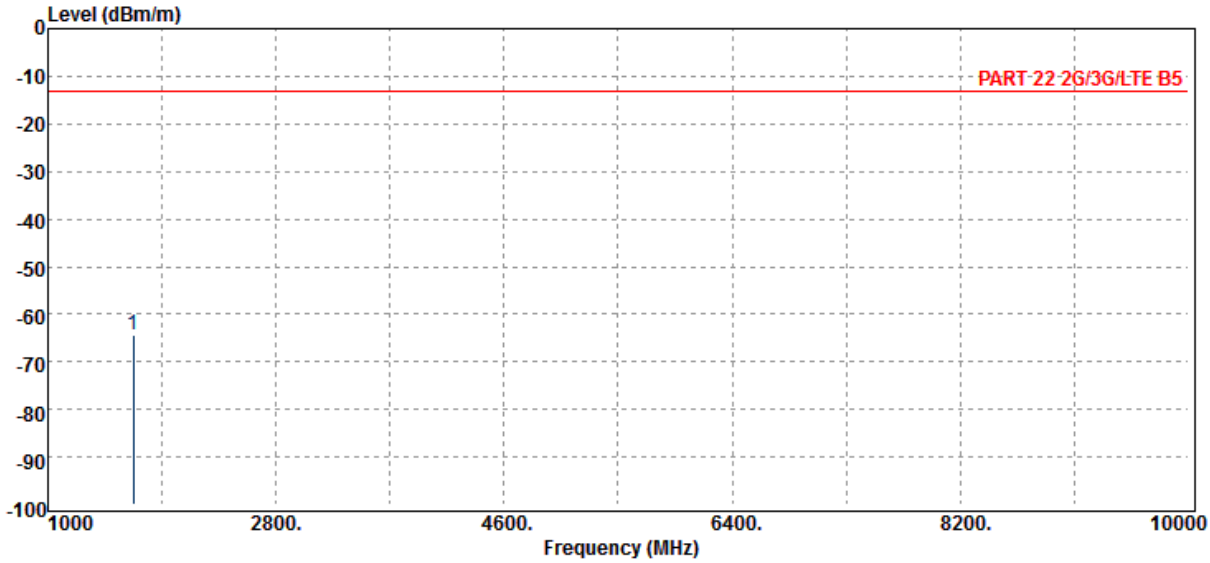




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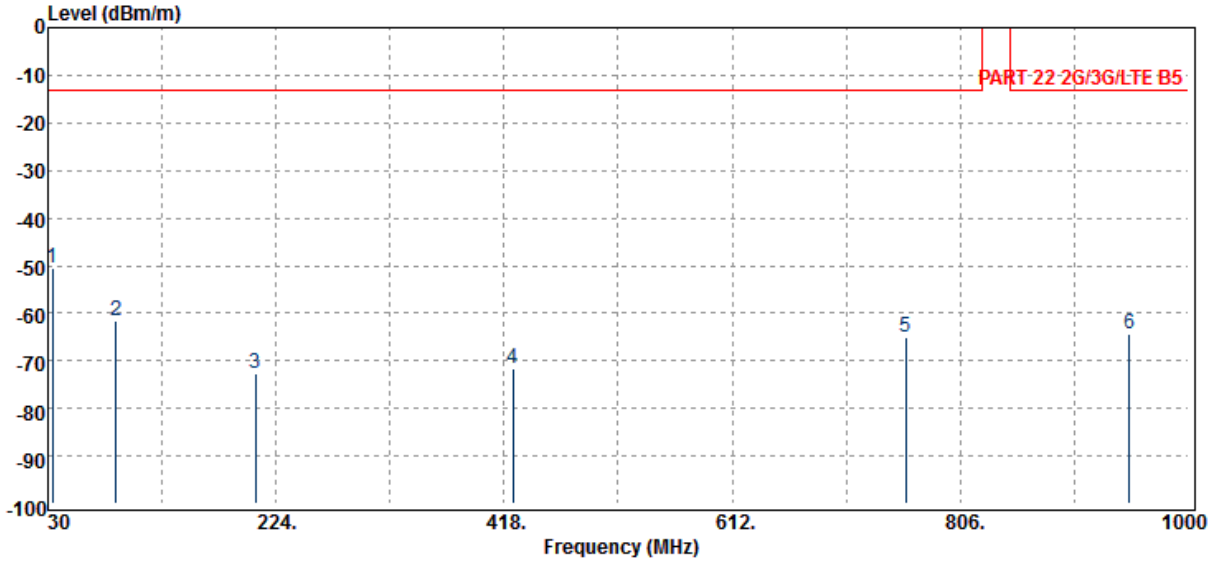
Operation Band	:LTE B5	Test Date	:2014-11-29
ARFCN	:CH 20525 16QAM BW 10 RB 1 0	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:836.5 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

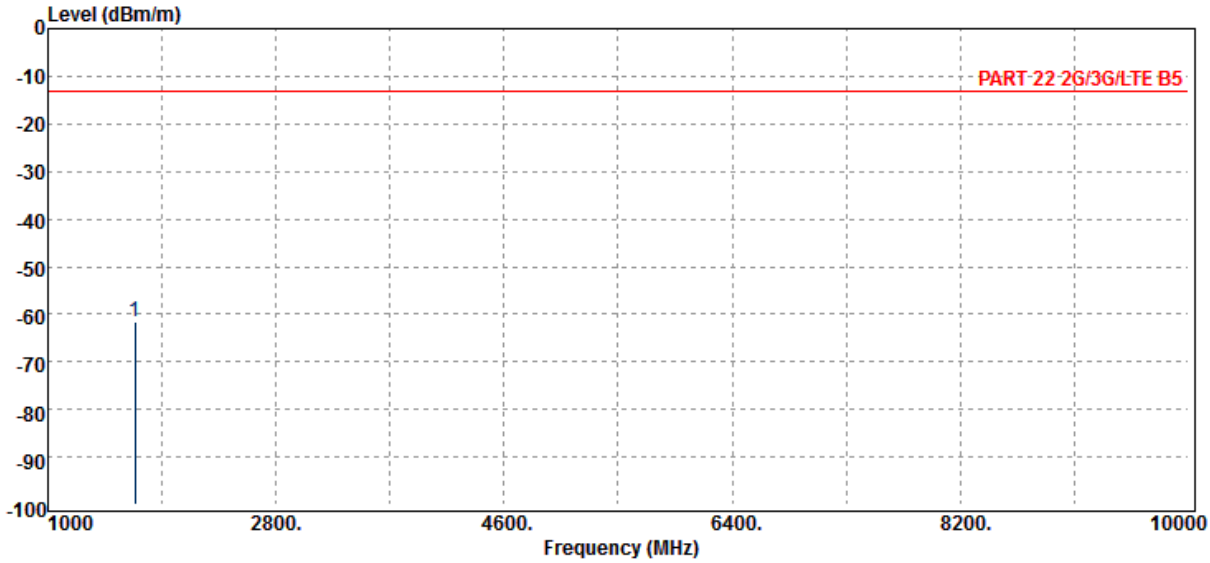




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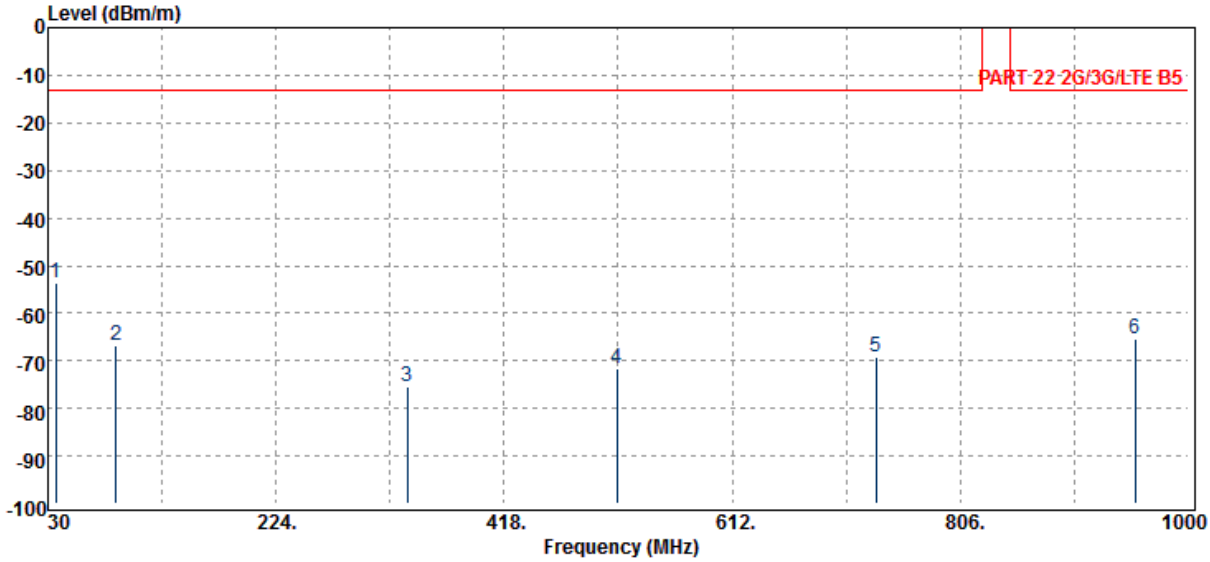
Operation Band	:LTE B5	Test Date	:2014-11-29
ARFCN	:CH 20600 16QAM BW 10 RB 1 0	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:844 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

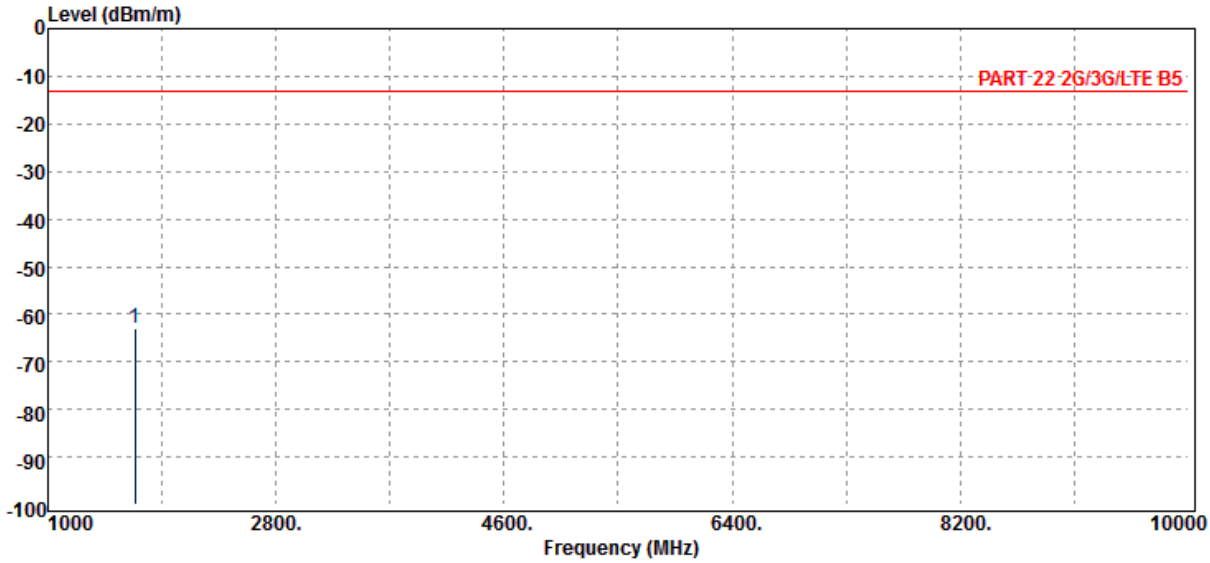




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Operation Band	:LTE B5	Test Date	:2014-11-29
ARFCN	:CH 20600 16QAM BW 10 RB 1 0	Temp./Humi.	:23 deg_C / 58 RH
Fundamental Frequency	:844 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

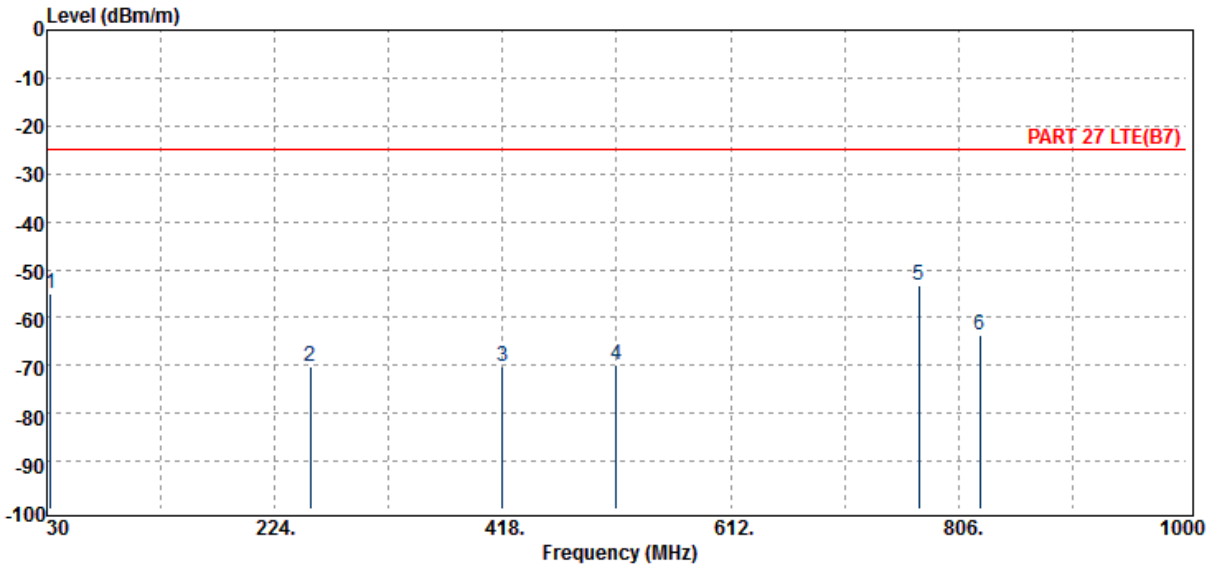


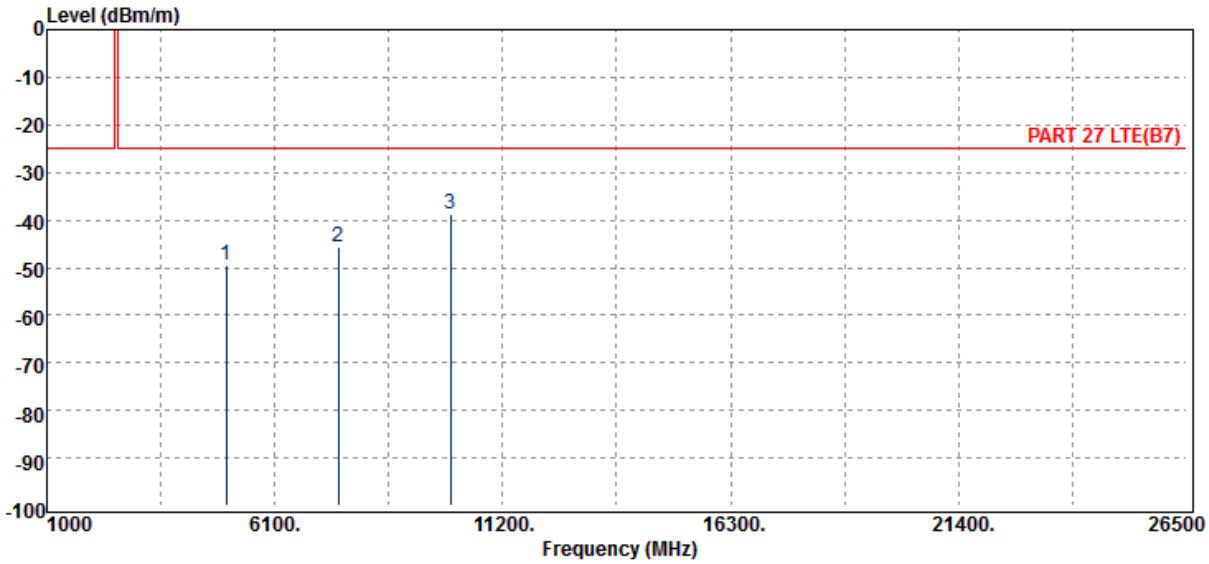


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Radiated Spurious Emission Measurement Result: 15MHz BW LTE-Band 7(The Worst Case)

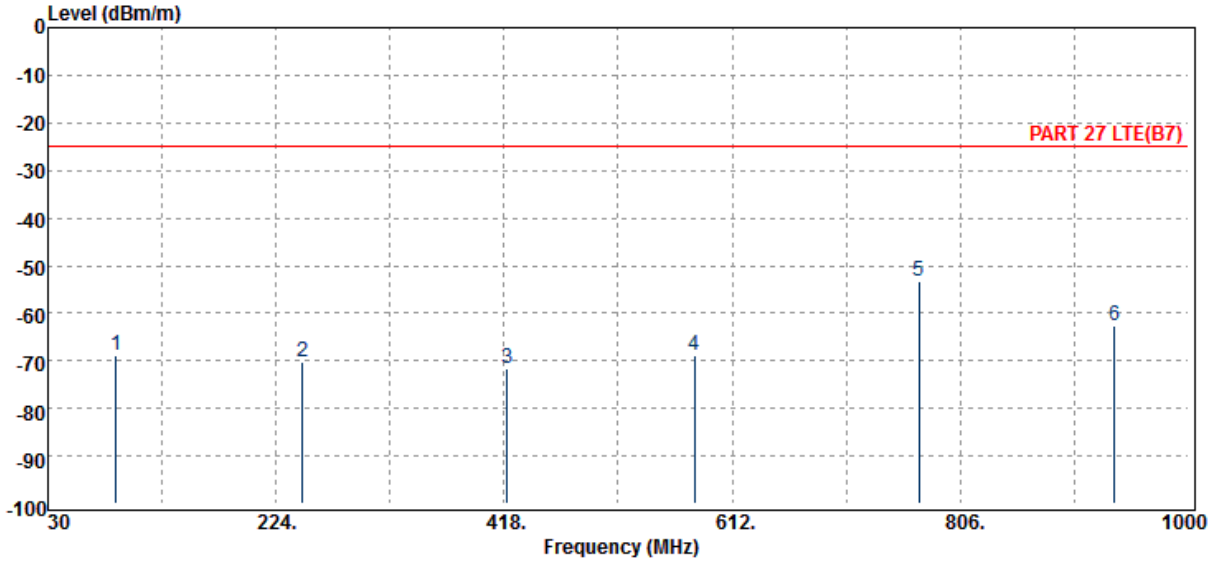
Operation Band	:LTE B7	Test Date	:2014-11-29
ARFCN	:CH 20850 16QAM BW 15 RB 1 0	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:2502.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

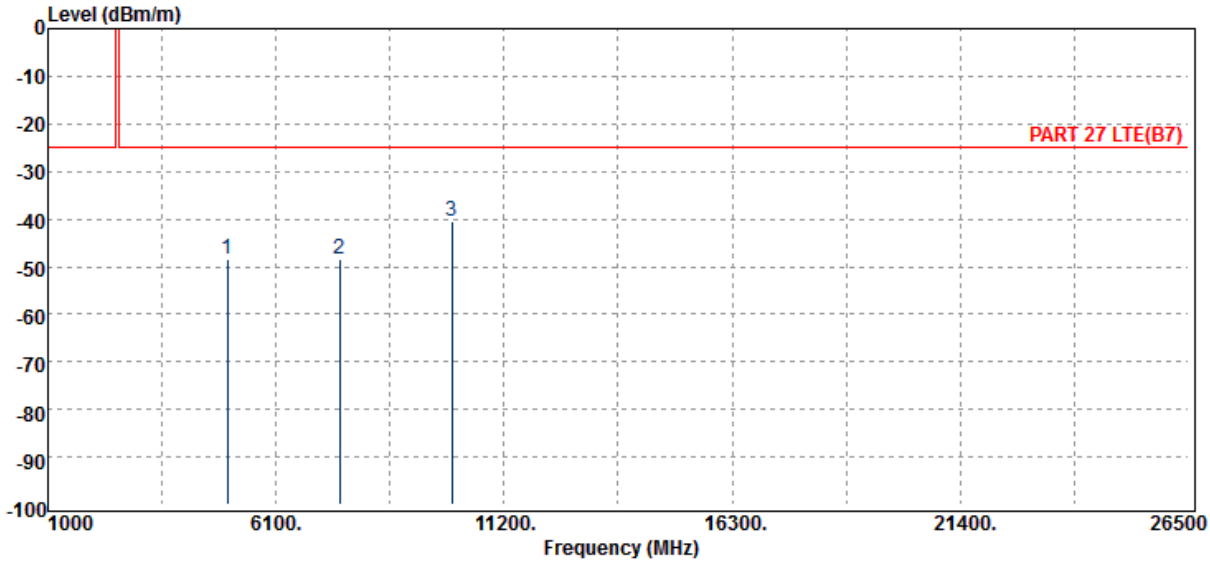




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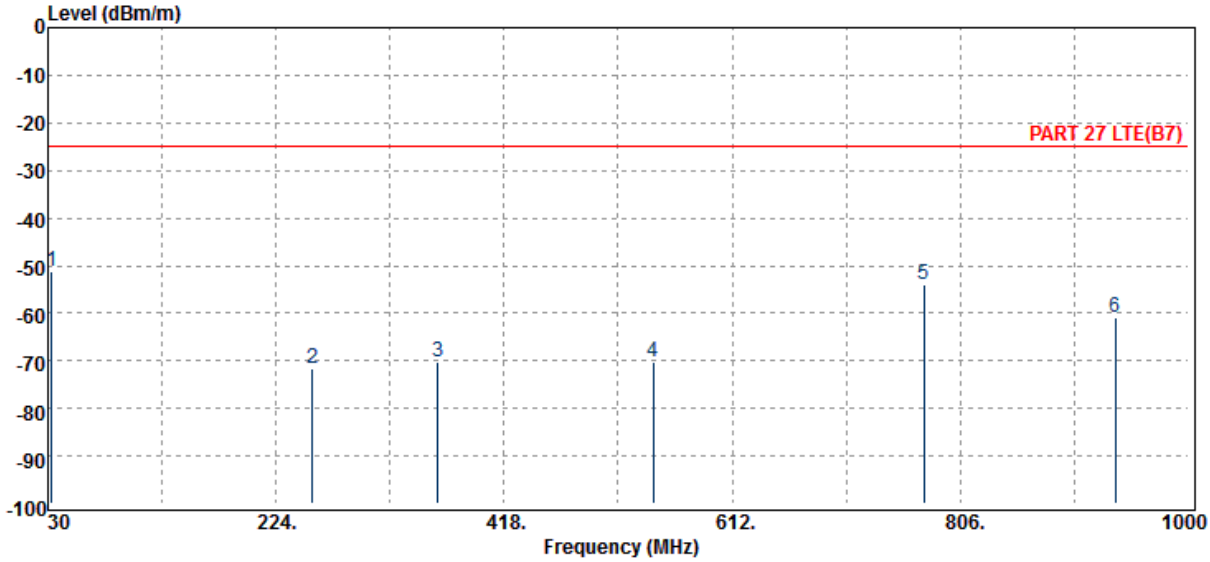
Operation Band	:LTE B7	Test Date	:2014-11-29
ARFCN	:CH 20850 16QAM BW 15 RB 1 0	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:2502.5 MHz	Engineer	:Tin
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

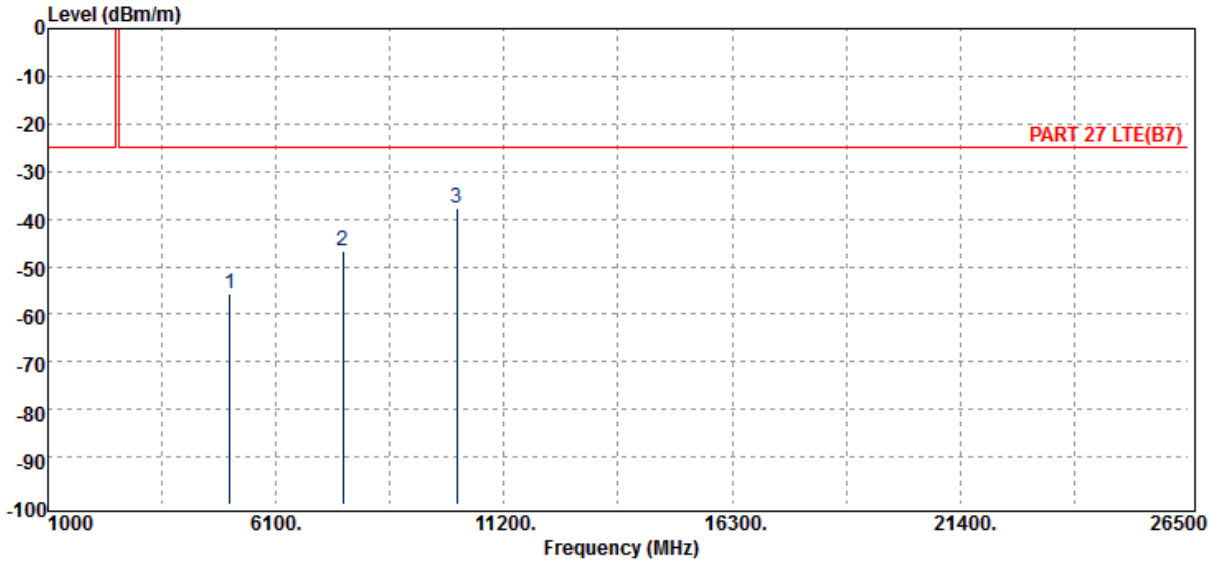




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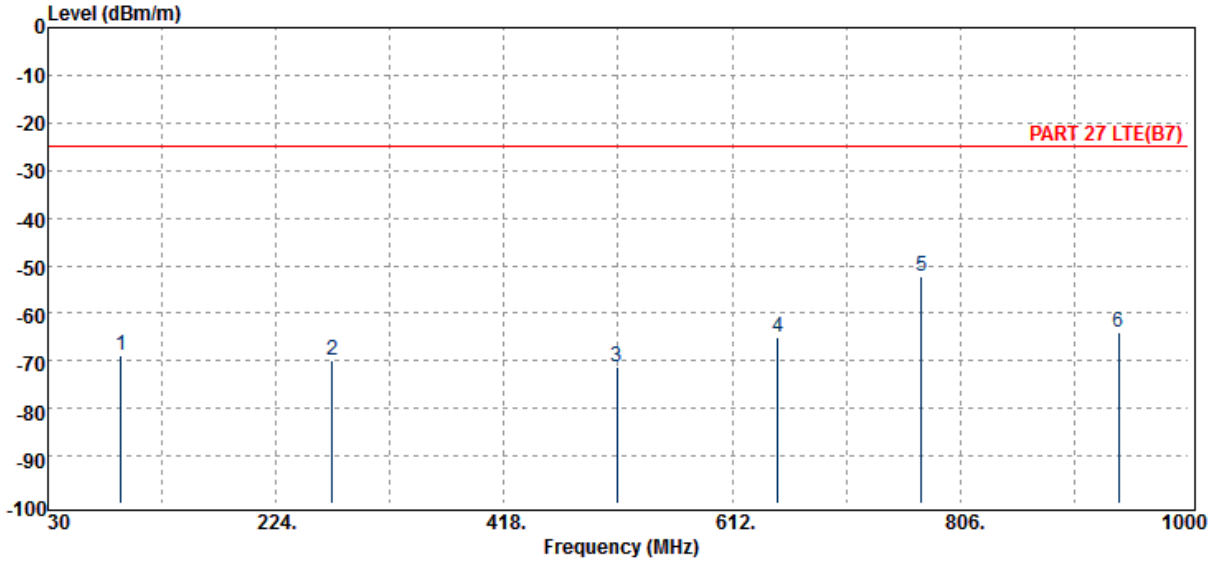
Operation Band	:LTE B7	Test Date	:2014-11-29
ARFCN	:CH 21100 16QAM BW 15 RB 1 0	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:2535 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

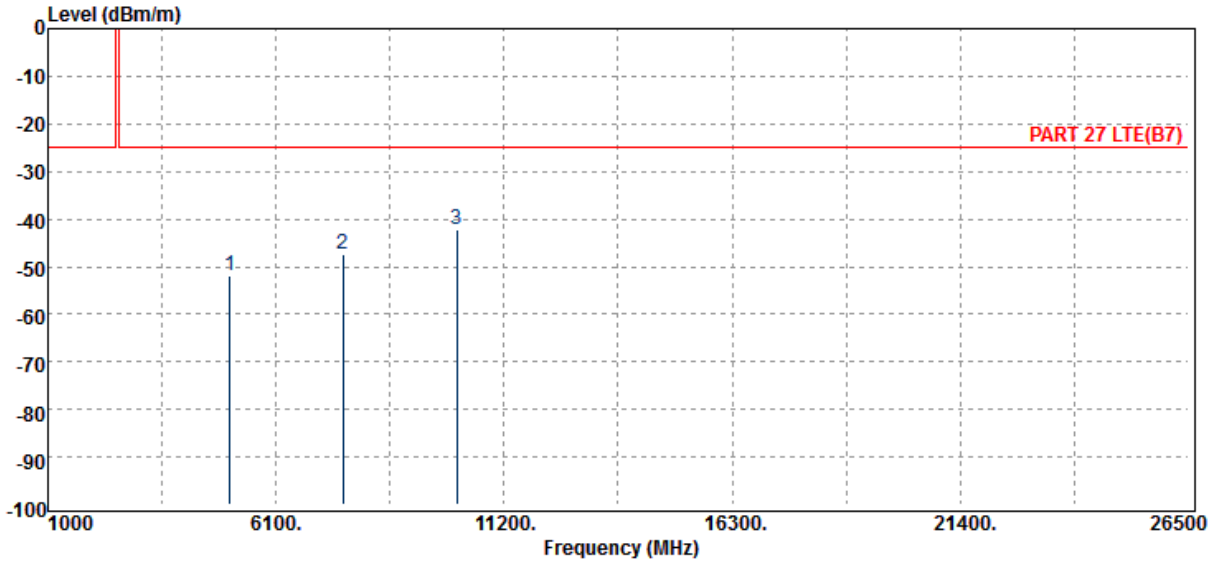




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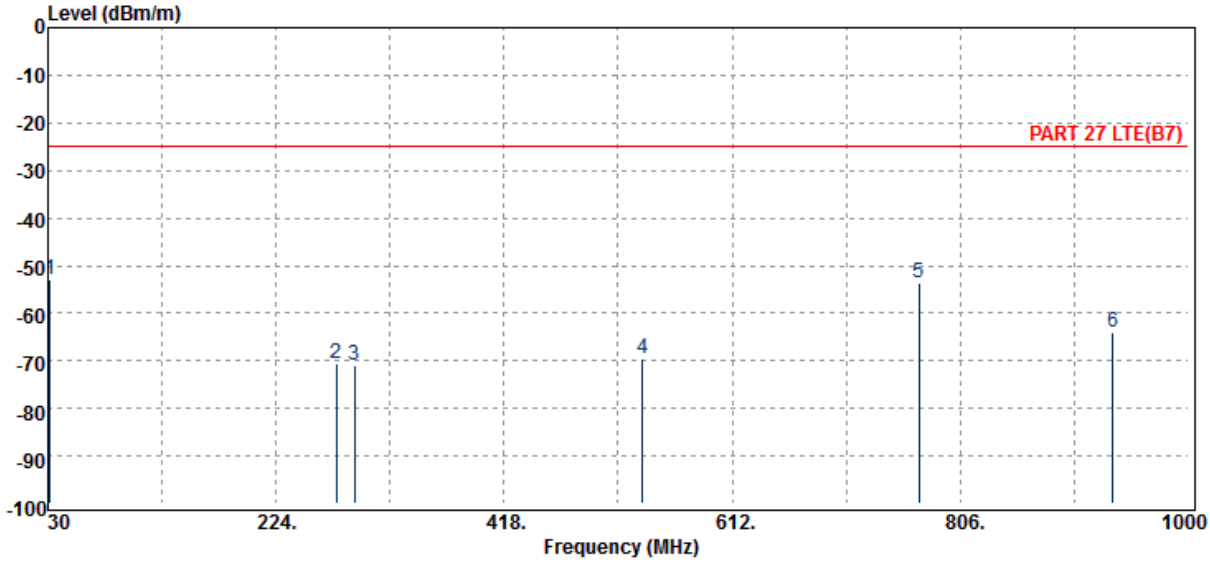
Operation Band	:LTE B7	Test Date	:2014-11-29
ARFCN	:CH 21100 16QAM BW 15 RB 1 0	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:2535 MHz	Engineer	:Tin
Operation Mode	:TX MID		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

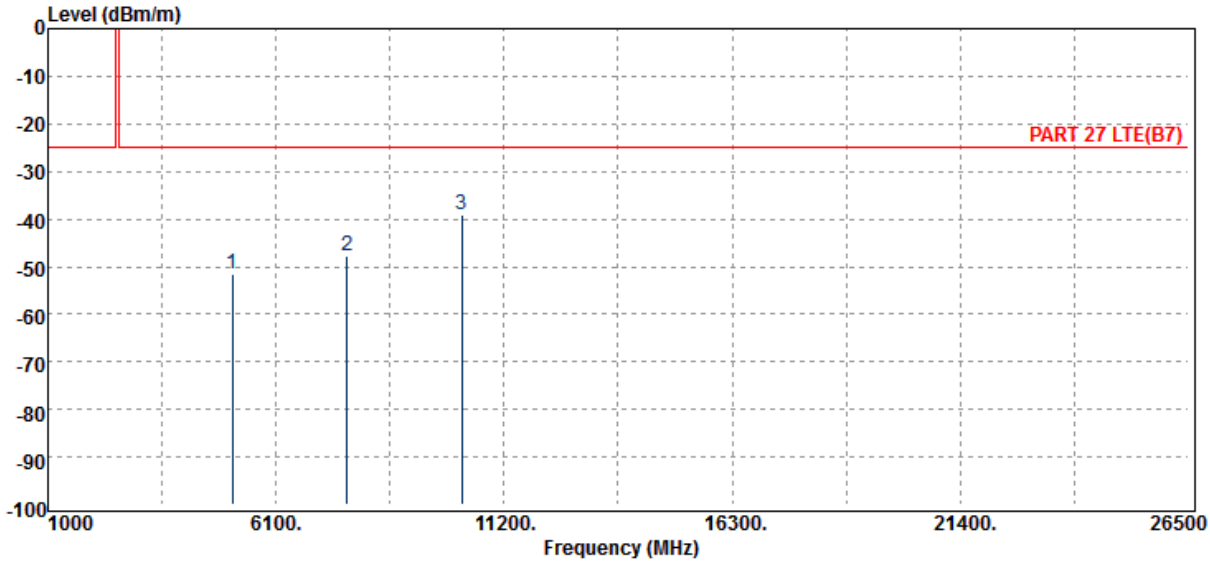




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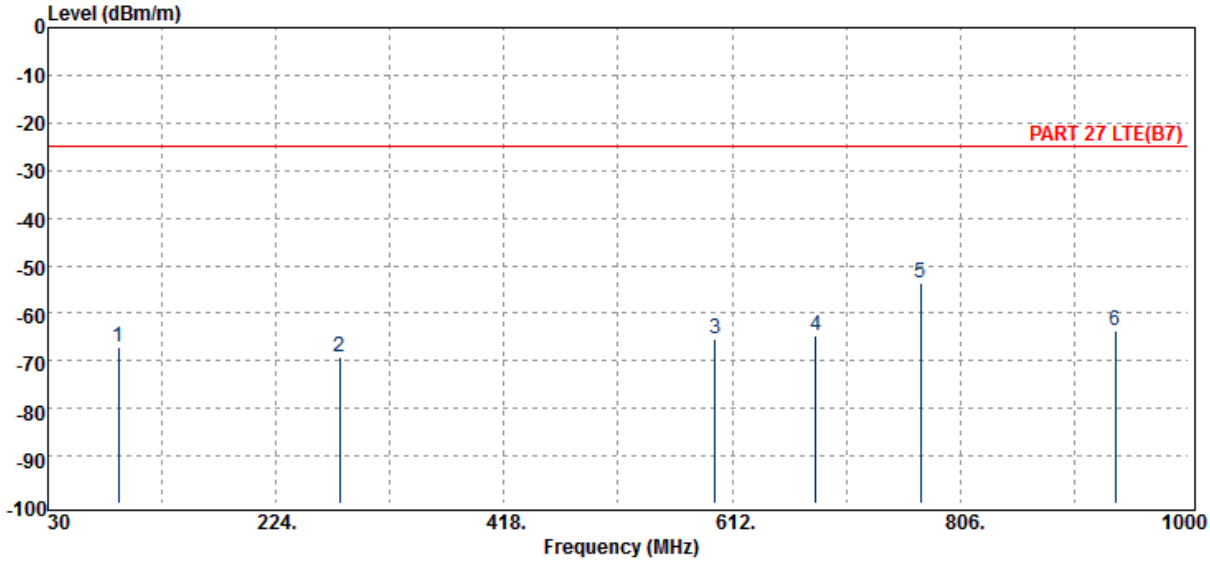
Operation Band	:LTE B7	Test Date	:2014-11-29
ARFCN	:CH 21375 16QAM BW 15 RB 1 0	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:2562.5 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

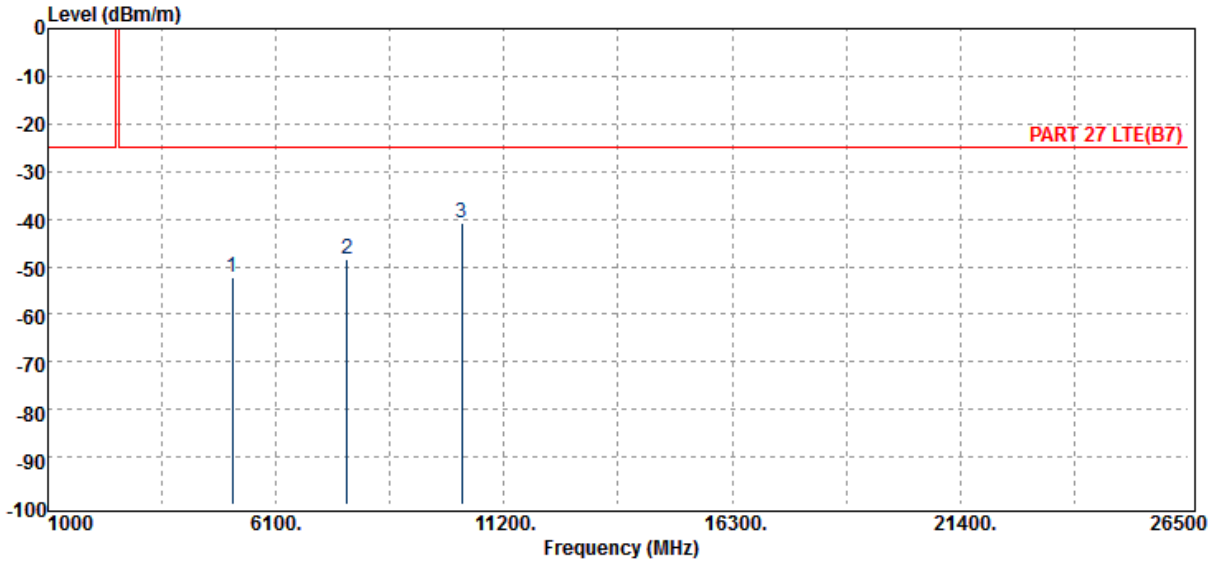




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Operation Band	:LTE B7	Test Date	:2014-11-29
ARFCN	:CH 21375 16QAM BW 15 RB 1 0	Temp./Humi.	:23 deg_C / 56 RH
Fundamental Frequency	:2562.5 MHz	Engineer	:Tin
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL





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