

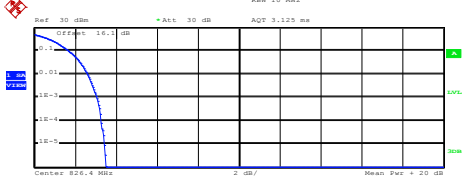
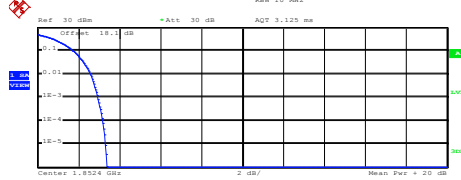
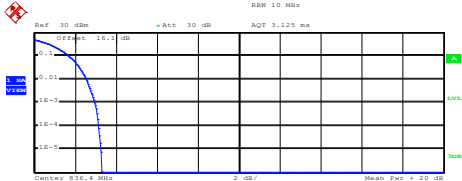
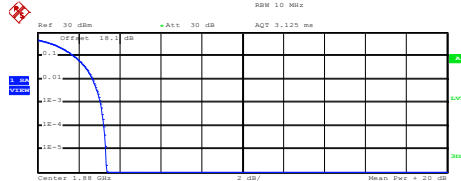
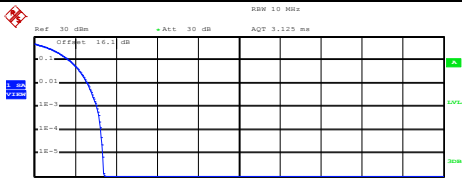
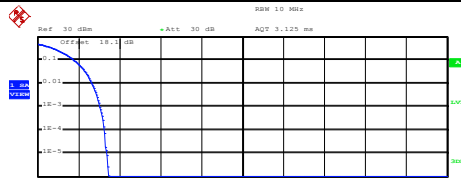


A2. WCDMA

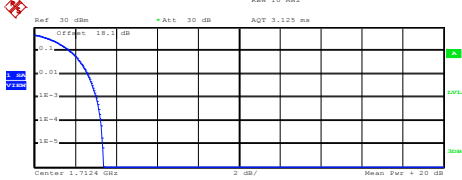
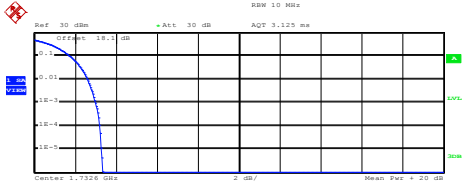
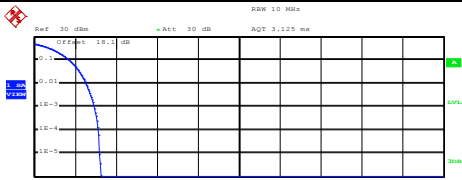
Peak-to-Average Ratio

Mode	WCDMA Band V	WCDMA Band II	WCDMA Band IV	Limit: 13dB
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps	Result
Lowest CH	3.08	2.96	3.04	PASS
Middle CH	2.96	3.08	3.00	
Highest CH	3.04	3.04	2.92	



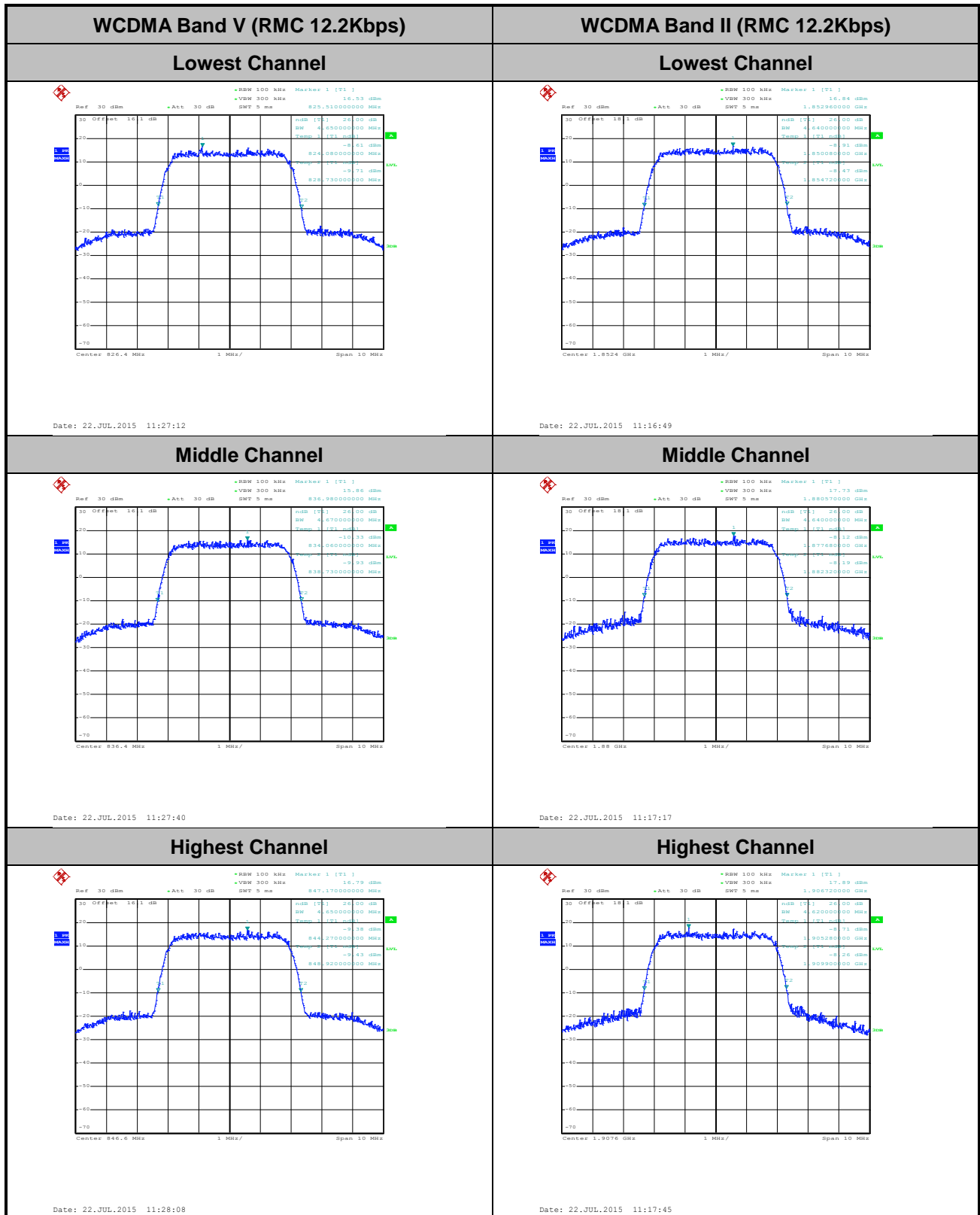
WCDMA Band V (RMC 12.2Kbps)	WCDMA Band II (RMC 12.2Kbps)																
Lowest Channel	Lowest Channel																
 <p>Ref: 30 dBm Att: 30 dB AQT: 3.125 ms Center: 826.4 MHz 2 dB/ Mean: Per + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean: 20.97 dBm Peak: 24.47 dBm Crest: 3.50 dB</p> <table><tr><td>10 %</td><td>1.68 dB</td></tr><tr><td>1 %</td><td>2.60 dB</td></tr><tr><td>.1 %</td><td>3.08 dB</td></tr><tr><td>.01 %</td><td>3.28 dB</td></tr></table> <p>Date: 22.JUL.2015 11:37:41</p>	10 %	1.68 dB	1 %	2.60 dB	.1 %	3.08 dB	.01 %	3.28 dB	 <p>Ref: 30 dBm Att: 30 dB AQT: 3.125 ms Center: 1.8524 GHz 2 dB/ Mean: Per + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean: 20.88 dBm Peak: 24.26 dBm Crest: 3.38 dB</p> <table><tr><td>10 %</td><td>1.76 dB</td></tr><tr><td>1 %</td><td>2.60 dB</td></tr><tr><td>.1 %</td><td>2.96 dB</td></tr><tr><td>.01 %</td><td>3.20 dB</td></tr></table> <p>Date: 22.JUL.2015 11:25:11</p>	10 %	1.76 dB	1 %	2.60 dB	.1 %	2.96 dB	.01 %	3.20 dB
10 %	1.68 dB																
1 %	2.60 dB																
.1 %	3.08 dB																
.01 %	3.28 dB																
10 %	1.76 dB																
1 %	2.60 dB																
.1 %	2.96 dB																
.01 %	3.20 dB																
Middle Channel	Middle Channel																
 <p>Ref: 30 dBm Att: 30 dB AQT: 3.125 ms Center: 830.4 MHz 2 dB/ Mean: Per + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean: 20.46 dBm Peak: 23.76 dBm Crest: 3.30 dB</p> <table><tr><td>10 %</td><td>1.68 dB</td></tr><tr><td>1 %</td><td>2.56 dB</td></tr><tr><td>.1 %</td><td>2.96 dB</td></tr><tr><td>.01 %</td><td>3.16 dB</td></tr></table> <p>Date: 22.JUL.2015 11:37:51</p>	10 %	1.68 dB	1 %	2.56 dB	.1 %	2.96 dB	.01 %	3.16 dB	 <p>Ref: 30 dBm Att: 30 dB AQT: 3.125 ms Center: 1.85 GHz 2 dB/ Mean: Per + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean: 21.46 dBm Peak: 24.82 dBm Crest: 3.36 dB</p> <table><tr><td>10 %</td><td>1.76 dB</td></tr><tr><td>1 %</td><td>2.68 dB</td></tr><tr><td>.1 %</td><td>3.08 dB</td></tr><tr><td>.01 %</td><td>3.24 dB</td></tr></table> <p>Date: 22.JUL.2015 11:25:19</p>	10 %	1.76 dB	1 %	2.68 dB	.1 %	3.08 dB	.01 %	3.24 dB
10 %	1.68 dB																
1 %	2.56 dB																
.1 %	2.96 dB																
.01 %	3.16 dB																
10 %	1.76 dB																
1 %	2.68 dB																
.1 %	3.08 dB																
.01 %	3.24 dB																
Highest Channel	Highest Channel																
 <p>Ref: 30 dBm Att: 30 dB AQT: 3.125 ms Center: 846.6 MHz 2 dB/ Mean: Per + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean: 20.50 dBm Peak: 23.90 dBm Crest: 3.40 dB</p> <table><tr><td>10 %</td><td>1.72 dB</td></tr><tr><td>1 %</td><td>2.60 dB</td></tr><tr><td>.1 %</td><td>3.04 dB</td></tr><tr><td>.01 %</td><td>3.24 dB</td></tr></table> <p>Date: 22.JUL.2015 11:38:00</p>	10 %	1.72 dB	1 %	2.60 dB	.1 %	3.04 dB	.01 %	3.24 dB	 <p>Ref: 30 dBm Att: 30 dB AQT: 3.125 ms Center: 1.9076 GHz 2 dB/ Mean: Per + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean: 21.09 dBm Peak: 24.54 dBm Crest: 3.45 dB</p> <table><tr><td>10 %</td><td>1.80 dB</td></tr><tr><td>1 %</td><td>2.64 dB</td></tr><tr><td>.1 %</td><td>3.04 dB</td></tr><tr><td>.01 %</td><td>3.28 dB</td></tr></table> <p>Date: 22.JUL.2015 11:25:27</p>	10 %	1.80 dB	1 %	2.64 dB	.1 %	3.04 dB	.01 %	3.28 dB
10 %	1.72 dB																
1 %	2.60 dB																
.1 %	3.04 dB																
.01 %	3.24 dB																
10 %	1.80 dB																
1 %	2.64 dB																
.1 %	3.04 dB																
.01 %	3.28 dB																



WCDMA Band IV (RMC 12.2Kbps)	
Lowest Channel	
<div><p>Ref: 30 dBm Att: 30 dB AQT: 3.125 ms</p><p>Center: 1.7124 GHz 2 dB/</p><p>Mean Power: 20 dB</p><p>Complementary Cumulative Distribution Function (100000 samples)</p><p>Trace 1</p><p>Mean: 21.16 dBm</p><p>Peak: 24.54 dBm</p><p>Crest: 3.38 dB</p><p>10 %: 1.72 dB</p><p>1 %: 2.60 dB</p><p>.1 %: 3.04 dB</p><p>.01 %: 3.24 dB</p></div> <p>Date: 22.JUL.2015 11:15:07</p>	
Middle Channel	
<div><p>Ref: 30 dBm Att: 30 dB AQT: 3.125 ms</p><p>Center: 1.7326 GHz 2 dB/</p><p>Mean Power: 20 dB</p><p>Complementary Cumulative Distribution Function (100000 samples)</p><p>Trace 1</p><p>Mean: 21.33 dBm</p><p>Peak: 24.68 dBm</p><p>Crest: 3.35 dB</p><p>10 %: 1.76 dB</p><p>1 %: 2.60 dB</p><p>.1 %: 3.00 dB</p><p>.01 %: 3.20 dB</p></div> <p>Date: 22.JUL.2015 11:15:19</p>	
Highest Channel	
<div><p>Ref: 30 dBm Att: 30 dB AQT: 3.125 ms</p><p>Center: 1.7526 GHz 2 dB/</p><p>Mean Power: 20 dB</p><p>Complementary Cumulative Distribution Function (100000 samples)</p><p>Trace 1</p><p>Mean: 21.28 dBm</p><p>Peak: 24.54 dBm</p><p>Crest: 3.26 dB</p><p>10 %: 1.72 dB</p><p>1 %: 2.52 dB</p><p>.1 %: 2.92 dB</p><p>.01 %: 3.12 dB</p></div> <p>Date: 22.JUL.2015 11:15:27</p>	

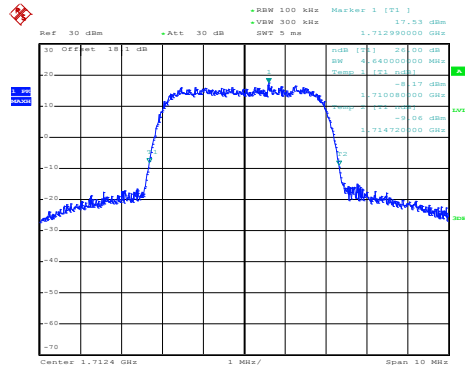
**26dB Bandwidth**

Mode	WCDMA Band V	WCDMA Band II	WCDMA Band IV
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.65	4.64	4.64
Middle CH	4.67	4.64	4.66
Highest CH	4.65	4.62	4.65



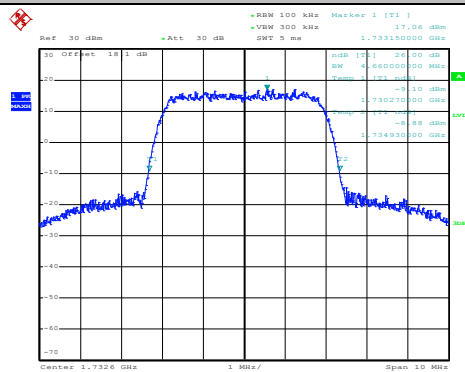
WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



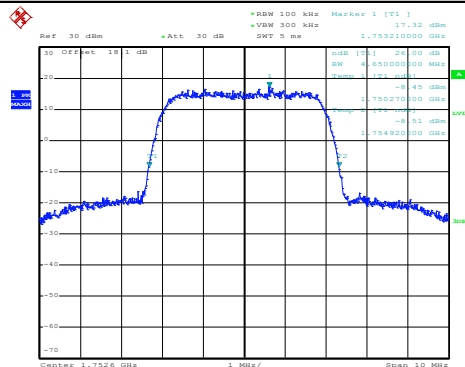
Date: 22.JUL.2015 11:06:33

Middle Channel



Date: 22.JUL.2015 11:07:01

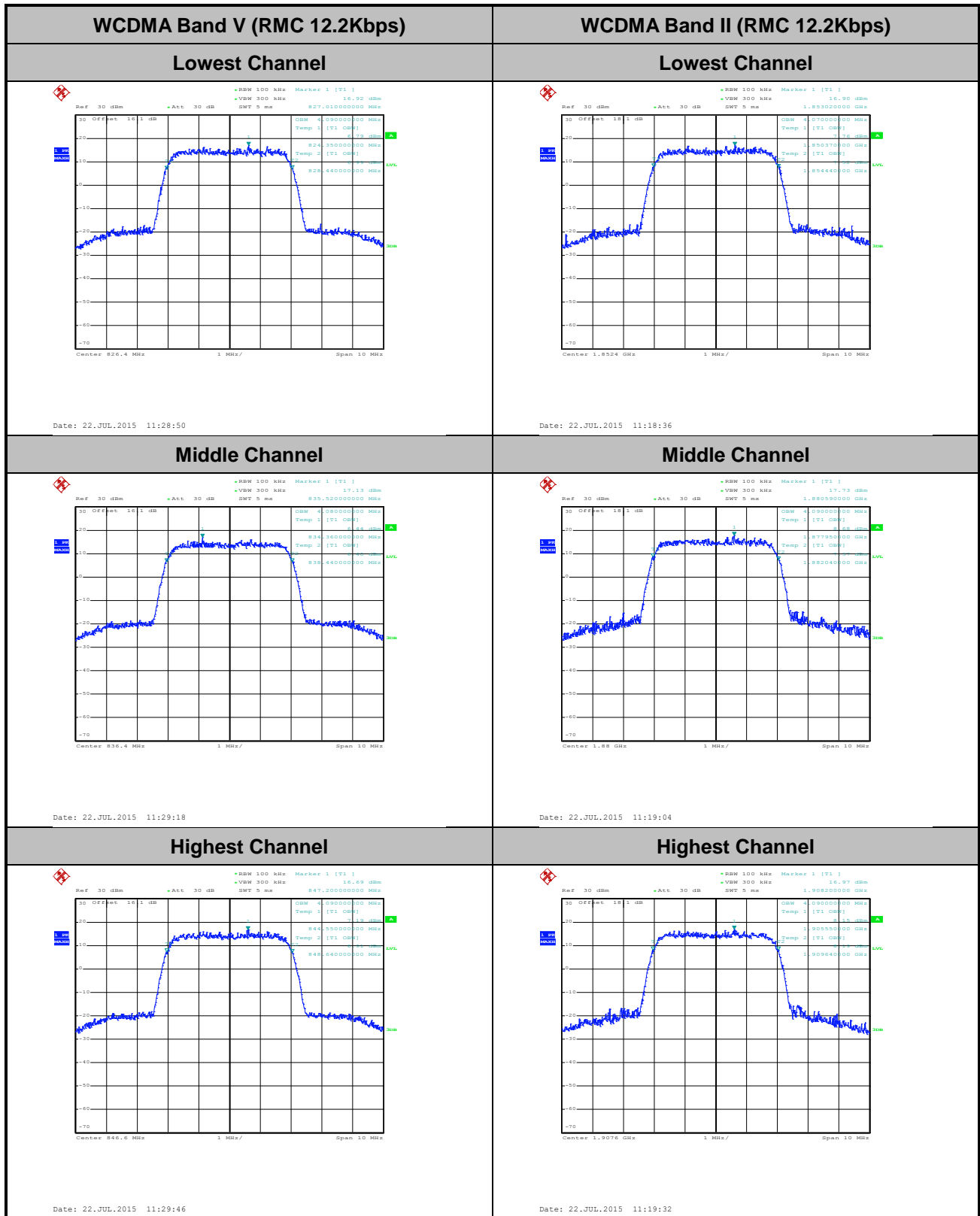
Highest Channel

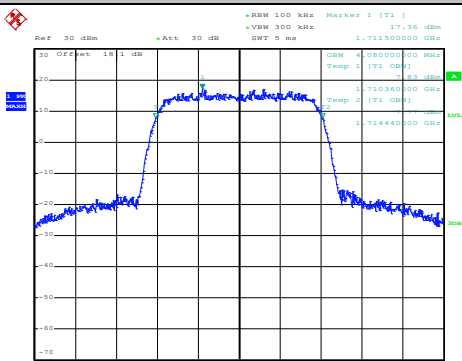
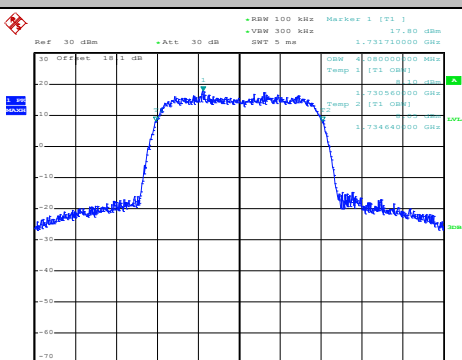
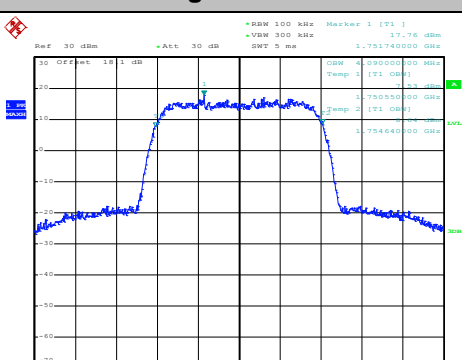


Date: 22.JUL.2015 11:07:29

**Occupied Bandwidth**

Mode	WCDMA Band V	WCDMA Band II	WCDMA Band IV
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.09	4.07	4.08
Middle CH	4.08	4.09	4.08
Highest CH	4.09	4.09	4.09



WCDMA Band IV (RMC 12.2Kbps)	
Lowest Channel	
 <p>Ref: 30 dBm Att: 30 dB SWF: 5 ms Marker 1 [T1] 17.36 dBm</p> <p>OSW: 4.080000000 MHz Temp: 1 [T1] OSW: 4.080000000 MHz</p> <p>Temp: 2 [T1] OSW: 4.080000000 MHz</p> <p>Temp: 3 [T1] OSW: 4.080000000 MHz</p> <p>Center: 1.7324 GHz Span: 10 MHz</p> <p>Date: 22.JUL.2015 11:08:07</p>	
Middle Channel	
 <p>Ref: 30 dBm Att: 30 dB SWF: 5 ms Marker 1 [T1] 17.40 dBm</p> <p>OSW: 4.080000000 MHz Temp: 1 [T1] OSW: 4.080000000 MHz</p> <p>Temp: 2 [T1] OSW: 4.080000000 MHz</p> <p>Temp: 3 [T1] OSW: 4.080000000 MHz</p> <p>Center: 1.7326 GHz Span: 10 MHz</p> <p>Date: 22.JUL.2015 11:08:35</p>	
Highest Channel	
 <p>Ref: 30 dBm Att: 30 dB SWF: 5 ms Marker 1 [T1] 17.76 dBm</p> <p>OSW: 4.080000000 MHz Temp: 1 [T1] OSW: 4.080000000 MHz</p> <p>Temp: 2 [T1] OSW: 4.080000000 MHz</p> <p>Temp: 3 [T1] OSW: 4.080000000 MHz</p> <p>Center: 1.7326 GHz Span: 10 MHz</p> <p>Date: 22.JUL.2015 11:09:03</p>	

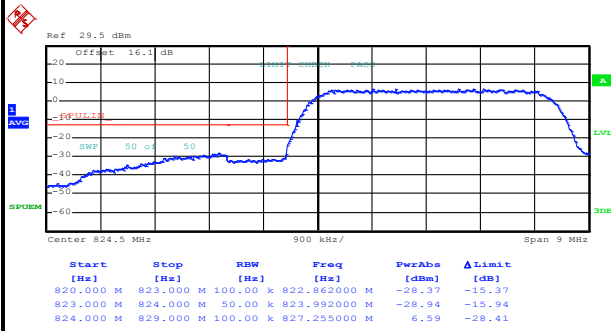


Conducted Band Edge



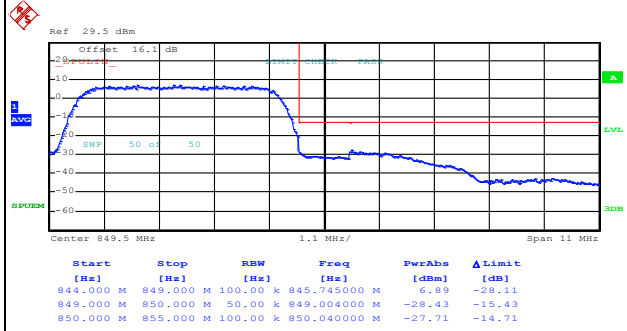
WCDMA Band V (RMC 12.2Kbps)

Lowest Band Edge



Date: 22.JUL.2015 11:31:38

Highest Band Edge

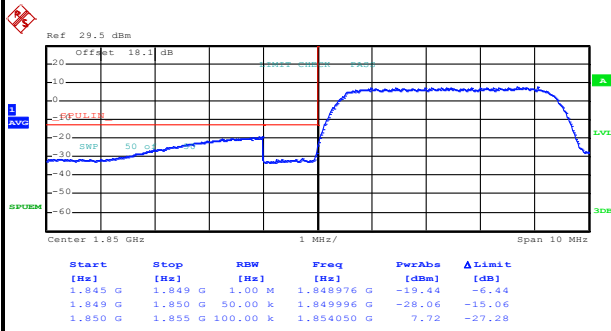


Date: 22.JUL.2015 11:33:06



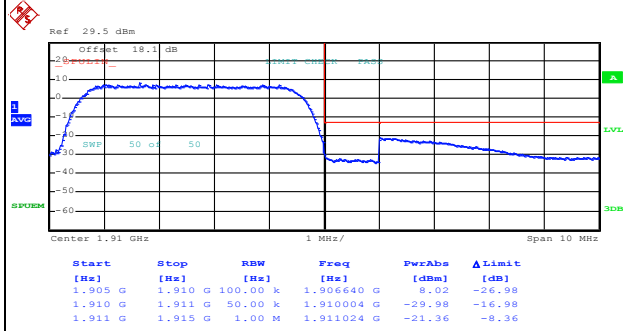
WCDMA Band II (RMC 12.2Kbps)

Lowest Band Edge



Date: 22.JUL.2015 11:21:36

Highest Band Edge

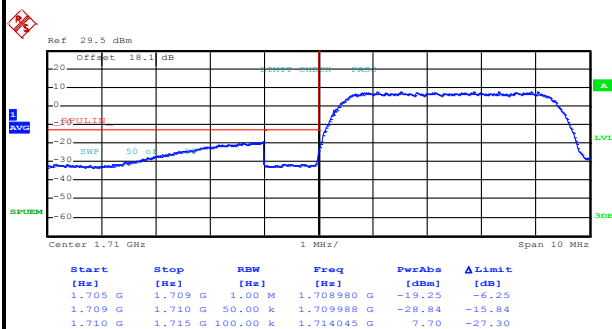


Date: 22.JUL.2015 11:23:03



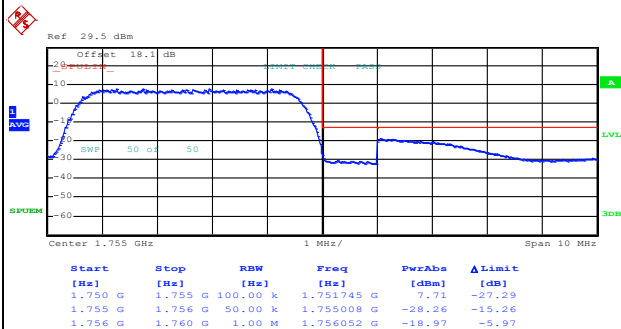
WCDMA Band IV (RMC 12.2Kbps)

Lowest Band Edge



Date: 22.JUL.2015 11:11:29

Highest Band Edge



Date: 22.JUL.2015 11:12:57

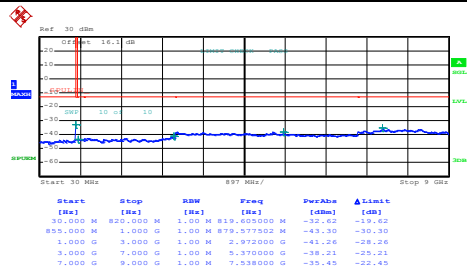


Conducted Spurious Emission



WCDMA Band V (RMC 12.2Kbps)

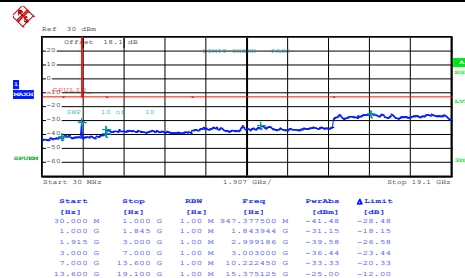
Lowest Channel



Date: 22.JUL.2015 11:36:26

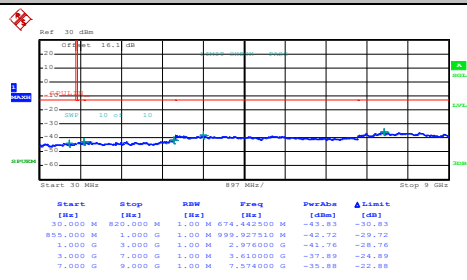
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



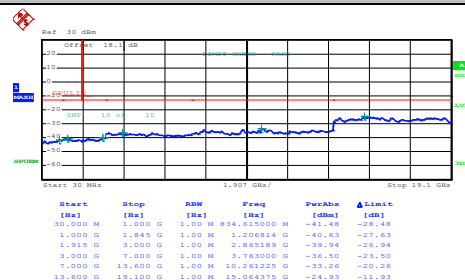
Date: 22.JUL.2015 11:23:45

Middle Channel



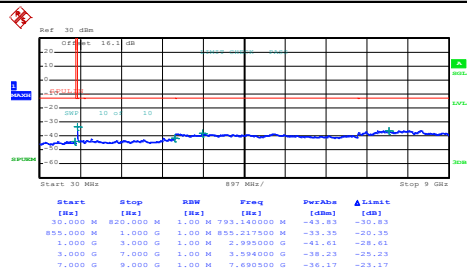
Date: 22.JUL.2015 11:36:56

Middle Channel



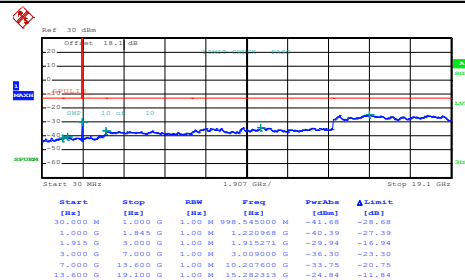
Date: 22.JUL.2015 11:24:15

Highest Channel



Date: 22.JUL.2015 11:37:26

Highest Channel

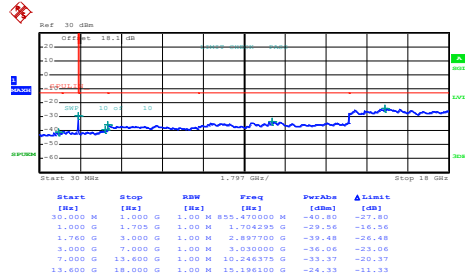


Date: 22.JUL.2015 11:24:45



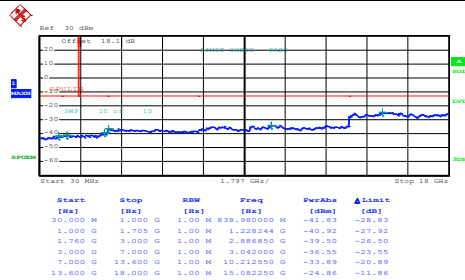
WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



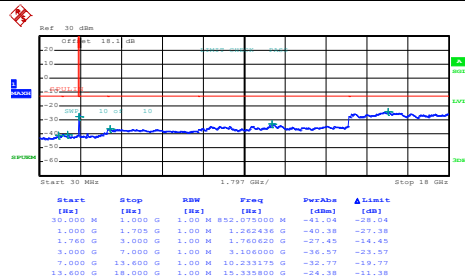
Date: 22.JUL.2015 11:13:49

Middle Channel



Date: 22.JUL.2015 11:14:19

Highest Channel



Date: 22.JUL.2015 11:14:49

**Frequency Stability**

Test Conditions	Middle Channel	WCDMA Band V (RMC 12.2Kbps)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0012	PASS
40	Normal Voltage	0.0155	
30	Normal Voltage	0.0024	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0096	
0	Normal Voltage	0.0036	
-10	Normal Voltage	0.0000	
-20	Normal Voltage	0.0048	
-30	Normal Voltage	0.0060	
20	Maximum Voltage	0.0120	
20	Normal Voltage	0.0024	
20	Battery End Point	0.0108	

Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0016	PASS
40	Normal Voltage	0.0005	
30	Normal Voltage	0.0021	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0037	
0	Normal Voltage	0.0106	
-10	Normal Voltage	0.0144	
-20	Normal Voltage	0.0032	
-30	Normal Voltage	0.0011	
20	Maximum Voltage	0.0005	
20	Normal Voltage	0.0101	
20	Battery End Point	0.0027	

Test Conditions	Middle Channel	WCDMA Band IV (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0127	PASS
40	Normal Voltage	0.0006	
30	Normal Voltage	0.0017	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0017	
0	Normal Voltage	0.0139	
-10	Normal Voltage	0.0012	
-20	Normal Voltage	0.0012	
-30	Normal Voltage	0.0023	
20	Maximum Voltage	0.0139	
20	Normal Voltage	0.0133	
20	Battery End Point	0.0121	

Note:

1. Normal Voltage = 12V. ; Battery End Point (BEP) = 5 V. ; Maximum Voltage =18 V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.