

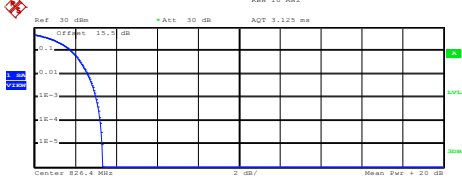
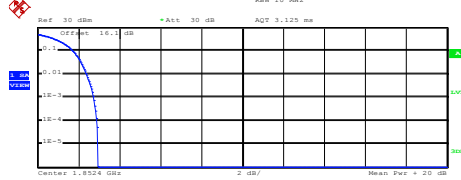
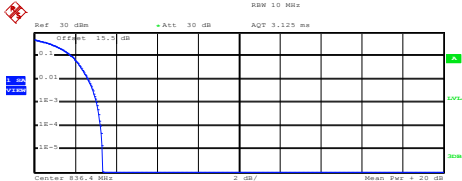
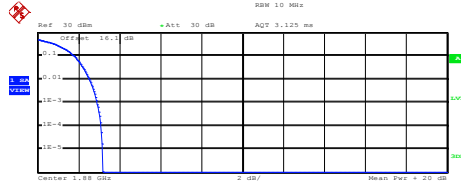
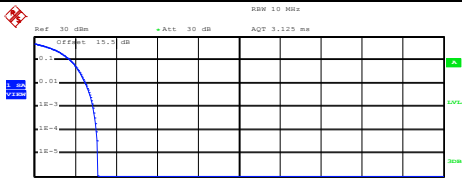
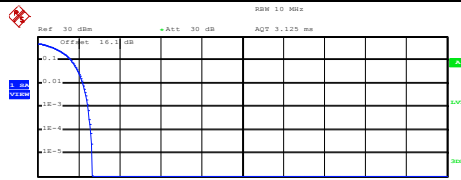


A3. WCDMA

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	3.04	2.72	2.68	PASS
Middle CH	3.04	2.92	2.44	
Highest CH	2.88	2.44	2.48	

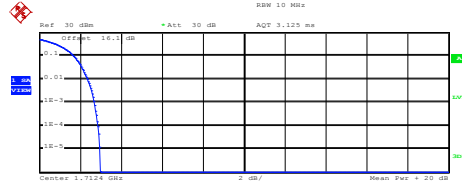


WCDMA Band V (RMC 12.2Kbps)	WCDMA Band II (RMC 12.2Kbps)																
<p style="text-align: center;">Lowest Channel</p>  <p>Center 826.4 MHz 2 dB/ Mean Pwr + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 24.95 dBm Peak 28.28 dBm Crest 3.33 dB</p> <table border="1"> <tr><td>10 %</td><td>1.80 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: 30.SEP.2016 11:56:50</p>	10 %	1.80 dB	1 %	2.60 dB	.1 %	3.04 dB	.01 %	3.24 dB	<p style="text-align: center;">Lowest Channel</p>  <p>Center 1.8524 GHz 2 dB/ Mean Pwr + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 23.65 dBm Peak 26.59 dBm Crest 2.94 dB</p> <table border="1"> <tr><td>10 %</td><td>1.72 dB</td></tr> <tr><td>1 %</td><td>2.40 dB</td></tr> <tr><td>.1 %</td><td>2.72 dB</td></tr> <tr><td>.01 %</td><td>2.88 dB</td></tr> </table> <p>Date: 30.SEP.2016 12:10:07</p>	10 %	1.72 dB	1 %	2.40 dB	.1 %	2.72 dB	.01 %	2.88 dB
10 %	1.80 dB																
1 %	2.60 dB																
.1 %	3.04 dB																
.01 %	3.24 dB																
10 %	1.72 dB																
1 %	2.40 dB																
.1 %	2.72 dB																
.01 %	2.88 dB																
<p style="text-align: center;">Middle Channel</p>  <p>Center 836.4 MHz 2 dB/ Mean Pwr + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 24.81 dBm Peak 28.14 dBm Crest 3.33 dB</p> <table border="1"> <tr><td>10 %</td><td>1.84 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>3.24 dB</td></tr> </table> <p>Date: 30.SEP.2016 11:57:06</p>	10 %	1.84 dB	1 %	2.64 dB	.1 %	3.04 dB	.01 %	3.24 dB	<p style="text-align: center;">Middle Channel</p>  <p>Center 1.88 GHz 2 dB/ Mean Pwr + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 23.68 dBm Peak 26.87 dBm Crest 3.19 dB</p> <table border="1"> <tr><td>10 %</td><td>1.80 dB</td></tr> <tr><td>1 %</td><td>2.52 dB</td></tr> <tr><td>.1 %</td><td>2.92 dB</td></tr> <tr><td>.01 %</td><td>3.12 dB</td></tr> </table> <p>Date: 30.SEP.2016 12:10:32</p>	10 %	1.80 dB	1 %	2.52 dB	.1 %	2.92 dB	.01 %	3.12 dB
10 %	1.84 dB																
1 %	2.64 dB																
.1 %	3.04 dB																
.01 %	3.24 dB																
10 %	1.80 dB																
1 %	2.52 dB																
.1 %	2.92 dB																
.01 %	3.12 dB																
<p style="text-align: center;">Highest Channel</p>  <p>Center 846.6 MHz 2 dB/ Mean Pwr + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 25.03 dBm Peak 28.14 dBm Crest 3.11 dB</p> <table border="1"> <tr><td>10 %</td><td>1.76 dB</td></tr> <tr><td>1 %</td><td>2.52 dB</td></tr> <tr><td>.1 %</td><td>2.88 dB</td></tr> <tr><td>.01 %</td><td>3.04 dB</td></tr> </table> <p>Date: 30.SEP.2016 11:57:33</p>	10 %	1.76 dB	1 %	2.52 dB	.1 %	2.88 dB	.01 %	3.04 dB	<p style="text-align: center;">Highest Channel</p>  <p>Center 1.9076 GHz 2 dB/ Mean Pwr + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 23.72 dBm Peak 26.38 dBm Crest 2.66 dB</p> <table border="1"> <tr><td>10 %</td><td>1.64 dB</td></tr> <tr><td>1 %</td><td>2.20 dB</td></tr> <tr><td>.1 %</td><td>2.44 dB</td></tr> <tr><td>.01 %</td><td>2.60 dB</td></tr> </table> <p>Date: 30.SEP.2016 12:10:49</p>	10 %	1.64 dB	1 %	2.20 dB	.1 %	2.44 dB	.01 %	2.60 dB
10 %	1.76 dB																
1 %	2.52 dB																
.1 %	2.88 dB																
.01 %	3.04 dB																
10 %	1.64 dB																
1 %	2.20 dB																
.1 %	2.44 dB																
.01 %	2.60 dB																



WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



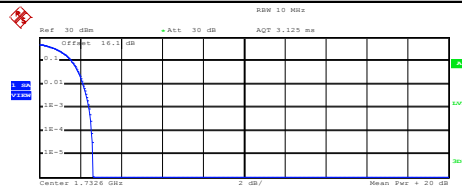
Complementary Cumulative Distribution Function (100000 samples)

Trace 1
 Mean 24.32 dBm
 Peak 27.29 dBm
 Crest 2.97 dB

10 % 1.68 dB
 1 % 2.36 dB
 .1 % 2.68 dB
 .01 % 2.88 dB

Date: 30.SEP.2016 13:51:33

Middle Channel



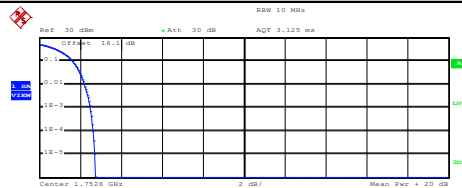
Complementary Cumulative Distribution Function (100000 samples)

Trace 1
 Mean 24.31 dBm
 Peak 26.94 dBm
 Crest 2.63 dB

10 % 1.60 dB
 1 % 2.16 dB
 .1 % 2.44 dB
 .01 % 2.56 dB

Date: 30.SEP.2016 13:51:46

Highest Channel



Complementary Cumulative Distribution Function (100000 samples)

Trace 1
 Mean 24.56 dBm
 Peak 27.29 dBm
 Crest 2.73 dB

10 % 1.64 dB
 1 % 2.20 dB
 .1 % 2.48 dB
 .01 % 2.64 dB

Date: 30.SEP.2016 13:52:22



26dB Bandwidth

Mode	WCDMA Band V	WCDMA Band II	WCDMA Band IV
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.66	4.68	4.68
Middle CH	4.66	4.68	4.70
Highest CH	4.66	4.69	4.68

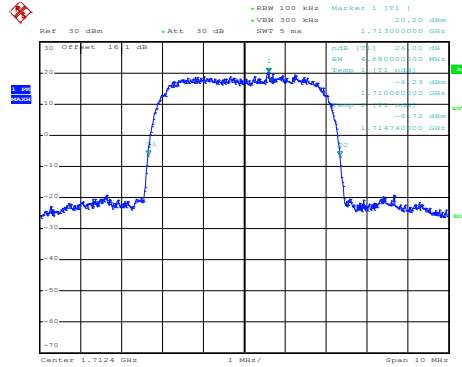


WCDMA Band V (RMC 12.2Kbps)	WCDMA Band II (RMC 12.2Kbps)
<p style="text-align: center;">Lowest Channel</p> <p>Date: 30.SEP.2016 11:45:23</p>	<p style="text-align: center;">Lowest Channel</p> <p>Date: 30.SEP.2016 11:59:08</p>
<p style="text-align: center;">Middle Channel</p> <p>Date: 30.SEP.2016 11:45:51</p>	<p style="text-align: center;">Middle Channel</p> <p>Date: 30.SEP.2016 11:59:36</p>
<p style="text-align: center;">Highest Channel</p> <p>Date: 30.SEP.2016 11:46:19</p>	<p style="text-align: center;">Highest Channel</p> <p>Date: 30.SEP.2016 12:00:04</p>



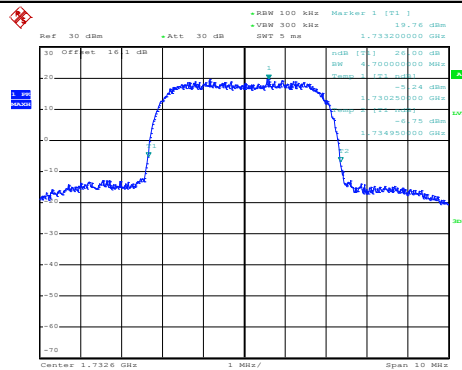
WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



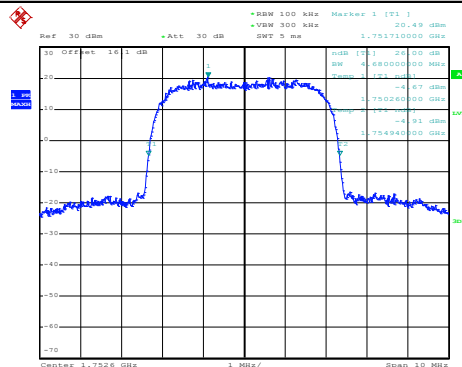
Date: 30.SEP.2016 12:11:57

Middle Channel



Date: 30.SEP.2016 12:12:25

Highest Channel



Date: 30.SEP.2016 12:12:52



Occupied Bandwidth

Mode	WCDMA Band V	WCDMA Band II	WCDMA Band IV
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.17	4.16	4.17
Middle CH	4.18	4.17	4.19
Highest CH	4.16	4.18	4.17

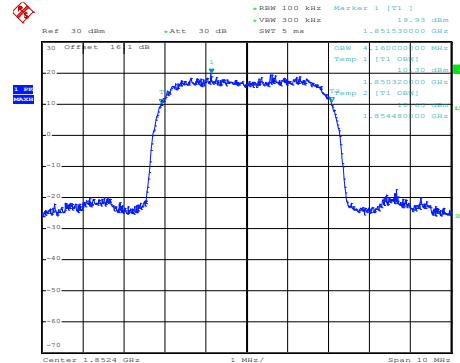
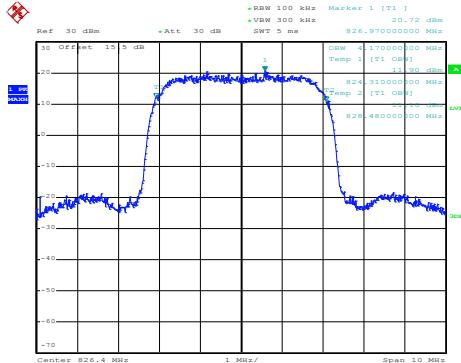


WCDMA Band V (RMC 12.2Kbps)

WCDMA Band II (RMC 12.2Kbps)

Lowest Channel

Lowest Channel

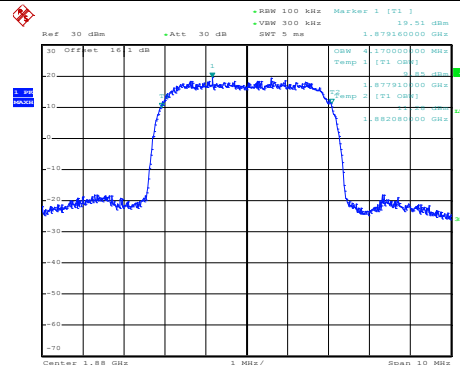
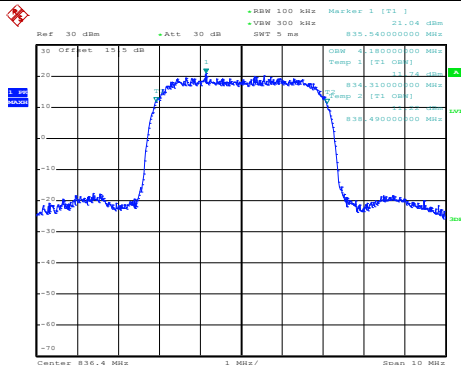


Date: 30.SEP.2016 11:46:50

Date: 30.SEP.2016 12:00:38

Middle Channel

Middle Channel

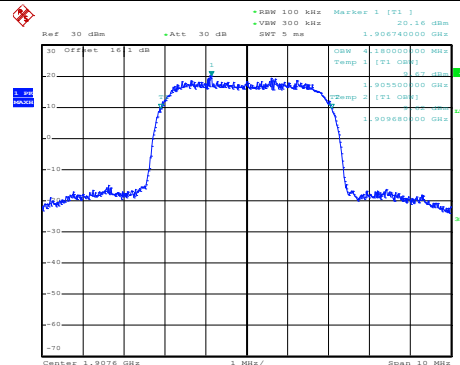
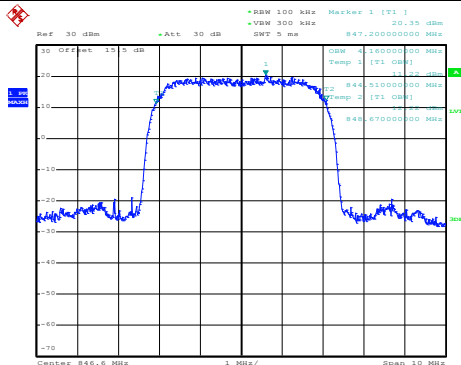


Date: 30.SEP.2016 11:47:18

Date: 30.SEP.2016 12:01:06

Highest Channel

Highest Channel



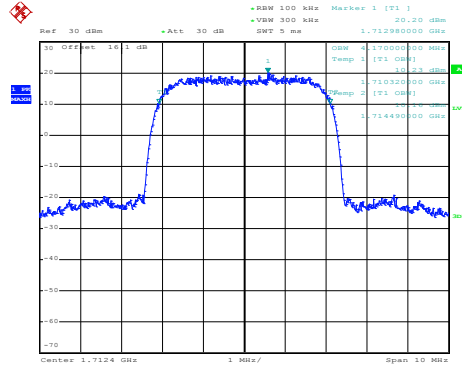
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Date: 30.SEP.2016 12:01:34



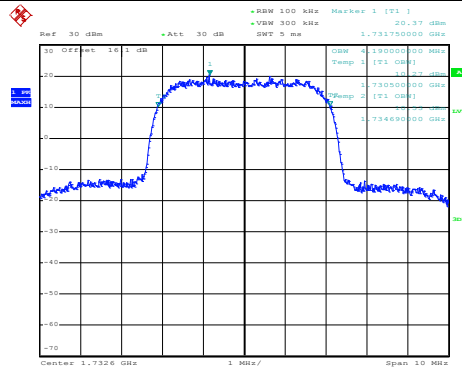
WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



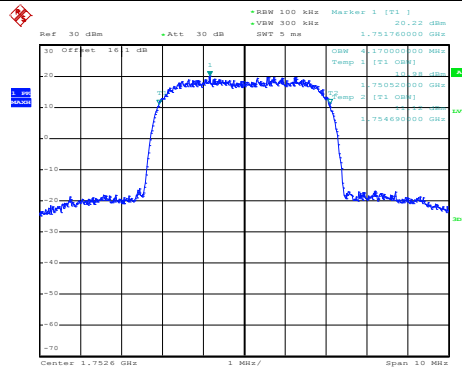
Date: 30.SEP.2016 12:13:24

Middle Channel



Date: 30.SEP.2016 12:13:52

Highest Channel



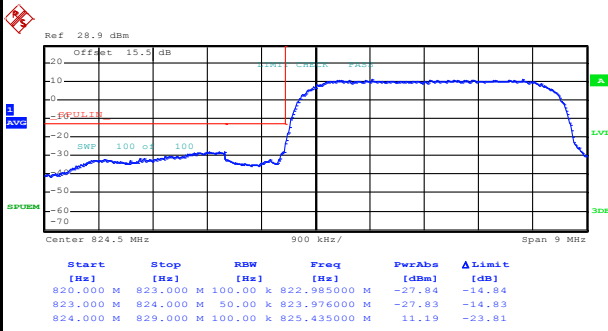
Date: 30.SEP.2016 12:14:20



Conducted Band Edge

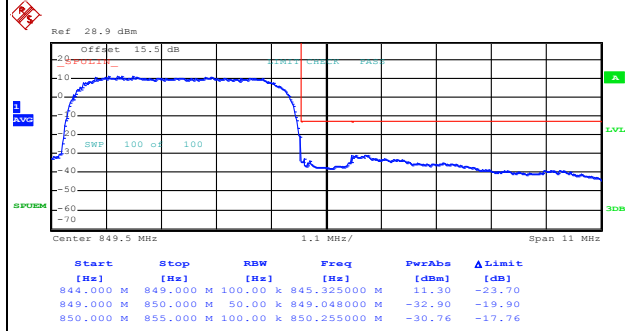
WCDMA Band V (RMC 12.2Kbps)

Lowest Band Edge



Date: 30.SEP.2016 11:50:30

Highest Band Edge



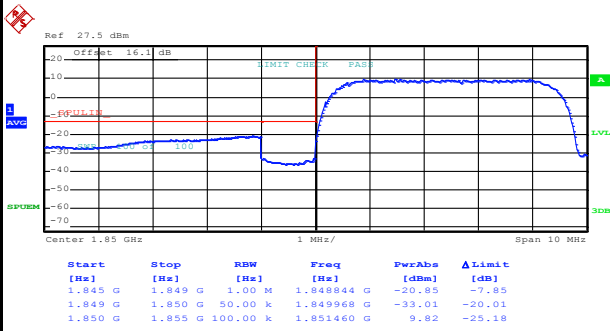
Date: 30.SEP.2016 11:53:12



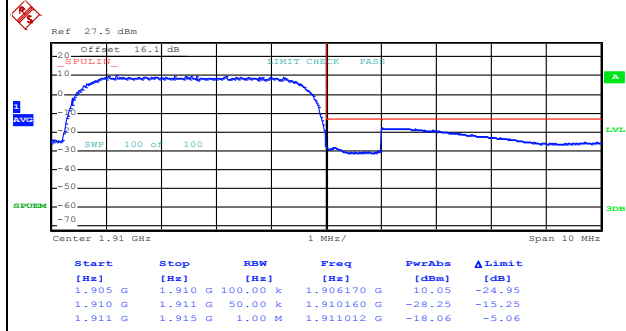
WCDMA Band II (RMC 12.2Kbps)

Lowest Band Edge

Highest Band Edge



Date: 30.SEP.2016 12:04:39

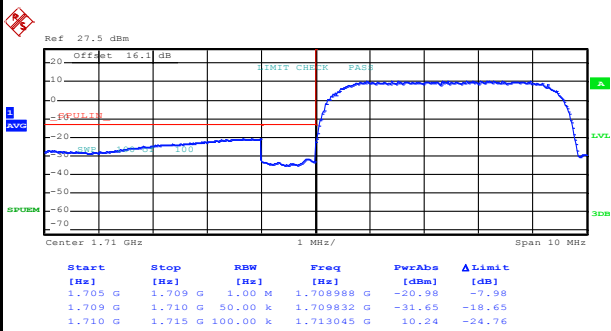


Date: 30.SEP.2016 12:07:21

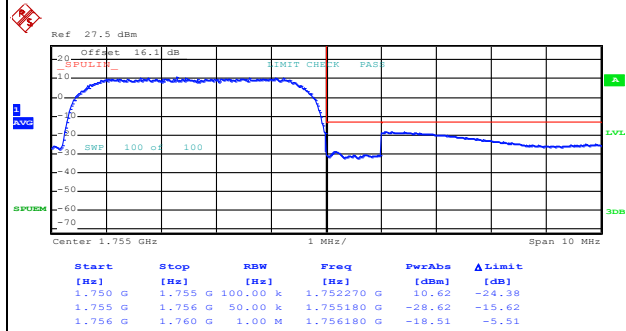
WCDMA Band IV (RMC 12.2Kbps)

Lowest Band Edge

Highest Band Edge



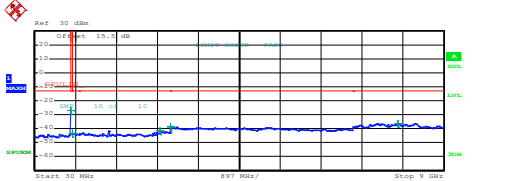
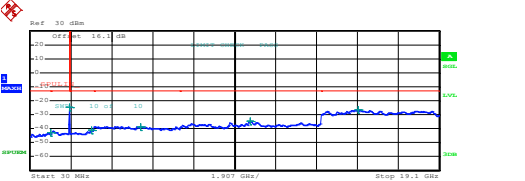
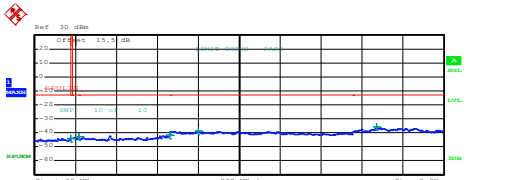
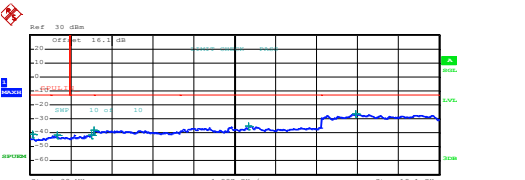
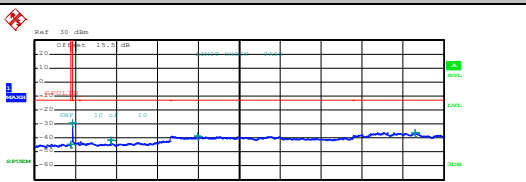
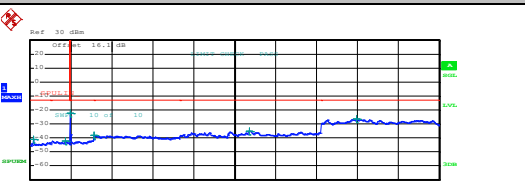
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Date: 30.SEP.2016 12:19:53



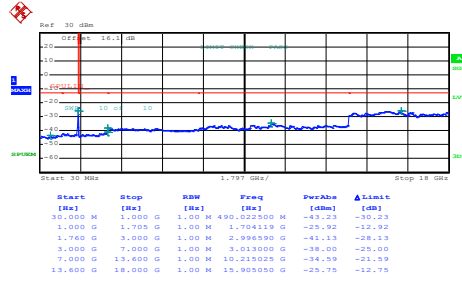
Conducted Spurious Emission

WCDMA Band V (RMC 12.2Kbps)	WCDMA Band II (RMC 12.2Kbps)																																																																																										
Lowest Channel	Lowest Channel																																																																																										
 <table border="1" data-bbox="239 660 750 739"> <thead> <tr> <th>Start</th> <th>Stop</th> <th>RBW</th> <th>Freq</th> <th>PwrAve</th> <th>ΔLimit</th> </tr> <tr> <th>[Hz]</th> <th>[Hz]</th> <th>[Hz]</th> <th>[Hz]</th> <th>[dBm]</th> <th>[dB]</th> </tr> </thead> <tbody> <tr> <td>30.000 M</td> <td>820.000 M</td> <td>1.00 M</td> <td>817.210000 M</td> <td>-26.93</td> <td>-23.93</td> </tr> <tr> <td>855.000 M</td> <td>1.000 G</td> <td>1.00 M</td> <td>857.682000 M</td> <td>-43.28</td> <td>-30.28</td> </tr> <tr> <td>1.000 G</td> <td>3.000 G</td> <td>1.00 M</td> <td>2.778000 G</td> <td>-42.72</td> <td>-28.72</td> </tr> <tr> <td>3.000 G</td> <td>7.000 G</td> <td>1.00 M</td> <td>3.015000 G</td> <td>-38.60</td> <td>-25.60</td> </tr> <tr> <td>7.000 G</td> <td>9.000 G</td> <td>1.00 M</td> <td>7.989000 G</td> <td>-36.49</td> <td>-23.49</td> </tr> </tbody> </table> <p>Date: 30.SEP.2016 11:54:31</p>	Start	Stop	RBW	Freq	PwrAve	ΔLimit	[Hz]	[Hz]	[Hz]	[Hz]	[dBm]	[dB]	30.000 M	820.000 M	1.00 M	817.210000 M	-26.93	-23.93	855.000 M	1.000 G	1.00 M	857.682000 M	-43.28	-30.28	1.000 G	3.000 G	1.00 M	2.778000 G	-42.72	-28.72	3.000 G	7.000 G	1.00 M	3.015000 G	-38.60	-25.60	7.000 G	9.000 G	1.00 M	7.989000 G	-36.49	-23.49	 <table border="1" data-bbox="893 660 1404 739"> <thead> <tr> <th>Start</th> <th>Stop</th> <th>RBW</th> <th>Freq</th> <th>PwrAve</th> <th>ΔLimit</th> </tr> <tr> <th>[Hz]</th> <th>[Hz]</th> <th>[Hz]</th> <th>[Hz]</th> <th>[dBm]</th> <th>[dB]</th> </tr> </thead> <tbody> <tr> <td>30.000 M</td> <td>1.000 G</td> <td>1.00 M</td> <td>888.300000 M</td> <td>-42.89</td> <td>-29.89</td> </tr> <tr> <td>1.000 G</td> <td>3.000 G</td> <td>1.00 M</td> <td>1.844789 G</td> <td>-24.88</td> <td>-11.88</td> </tr> <tr> <td>3.000 G</td> <td>7.000 G</td> <td>1.00 M</td> <td>2.880000 G</td> <td>-41.11</td> <td>-28.11</td> </tr> <tr> <td>7.000 G</td> <td>13.600 G</td> <td>1.00 M</td> <td>5.166000 G</td> <td>-38.50</td> <td>-25.50</td> </tr> <tr> <td>13.600 G</td> <td>19.100 G</td> <td>1.00 M</td> <td>10.271125 G</td> <td>-34.58</td> <td>-21.58</td> </tr> <tr> <td>19.100 G</td> <td>19.100 G</td> <td>1.00 M</td> <td>15.308438 G</td> <td>-26.30</td> <td>-13.30</td> </tr> </tbody> </table> <p>Date: 30.SEP.2016 12:08:13</p>	Start	Stop	RBW	Freq	PwrAve	ΔLimit	[Hz]	[Hz]	[Hz]	[Hz]	[dBm]	[dB]	30.000 M	1.000 G	1.00 M	888.300000 M	-42.89	-29.89	1.000 G	3.000 G	1.00 M	1.844789 G	-24.88	-11.88	3.000 G	7.000 G	1.00 M	2.880000 G	-41.11	-28.11	7.000 G	13.600 G	1.00 M	5.166000 G	-38.50	-25.50	13.600 G	19.100 G	1.00 M	10.271125 G	-34.58	-21.58	19.100 G	19.100 G	1.00 M	15.308438 G	-26.30	-13.30
Start	Stop	RBW	Freq	PwrAve	ΔLimit																																																																																						
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7.000 G	13.600 G	1.00 M	5.166000 G	-38.50	-25.50																																																																																						
13.600 G	19.100 G	1.00 M	10.271125 G	-34.58	-21.58																																																																																						
19.100 G	19.100 G	1.00 M	15.308438 G	-26.30	-13.30																																																																																						
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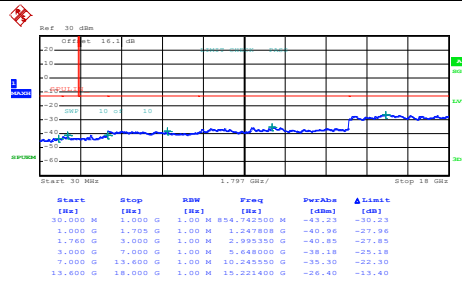
WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



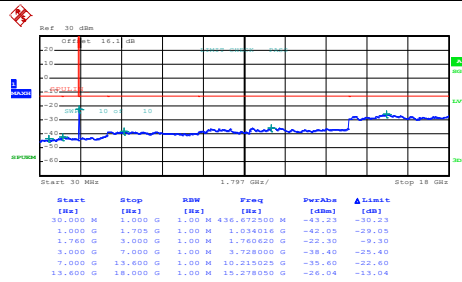
Date: 30.SEP.2016 13:49:24

Middle Channel



Date: 30.SEP.2016 13:50:09

Highest Channel



Date: 30.SEP.2016 13:50:55



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	0.0012	
30	Normal Voltage	0.0000	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0215	
0	Normal Voltage	0.0203	
-10	Normal Voltage	0.0167	
-20	Normal Voltage	0.0167	
-30	Normal Voltage	0.0191	
20	Maximum Voltage	0.0024	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0024	

Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0000	PASS
40	Normal Voltage	0.0005	
30	Normal Voltage	0.0000	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0011	
0	Normal Voltage	0.0138	
-10	Normal Voltage	0.0149	
-20	Normal Voltage	0.0154	
-30	Normal Voltage	0.0154	
20	Maximum Voltage	0.0000	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0005	



Test Conditions	Middle Channel	WCDMA Band IV (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0035	PASS
40	Normal Voltage	0.0023	
30	Normal Voltage	0.0035	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0265	
0	Normal Voltage	0.0260	
-10	Normal Voltage	0.0271	
-20	Normal Voltage	0.0265	
-30	Normal Voltage	0.0271	
20	Maximum Voltage	0.0000	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0006	

Note:

1. Normal Voltage = 3.85V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage =4.4 V
2. The frequency fundamental emissions stay within the authorized frequency block based.