



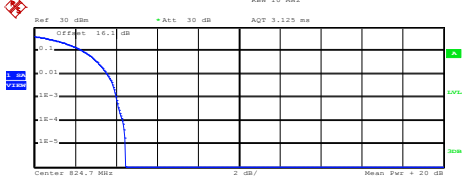
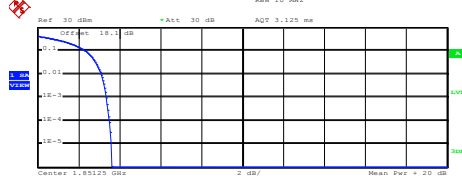
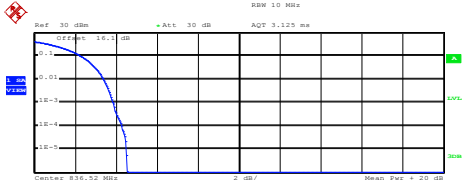
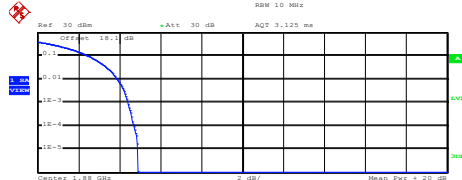
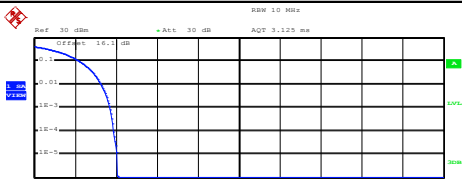
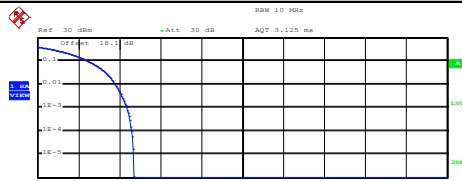
A3. CDMA

Peak-to-Average Ratio

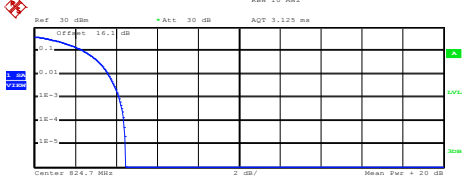
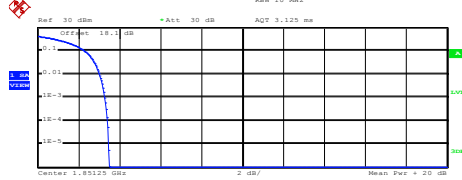
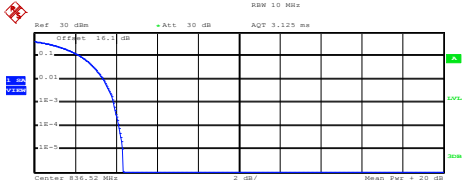
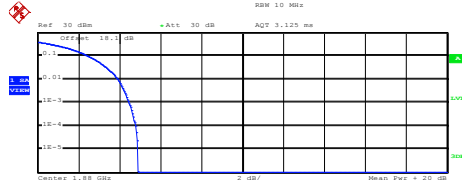
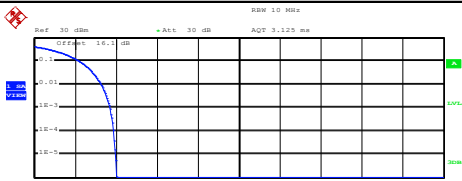
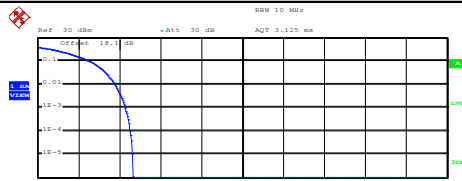
Mode	CDMA BC0	CDMA BC1	Limit: 13dB
Mod.	1xRTT	1xRTT	Result
Lowest CH	4.04	3.36	PASS
Middle CH	3.88	4.44	
Highest CH	3.72	4.36	

Mode	CDMA BC0	CDMA BC1	Limit: 13dB
Mod.	1xEV-DO Rev. 0	1xEV-DO Rev. 0	Result
Lowest CH	4.16	3.28	PASS
Middle CH	3.88	4.48	
Highest CH	3.72	4.28	



CDMA BC0 (1xRTT)	CDMA BC1 (1xRTT)																												
Lowest Channel	Lowest Channel																												
 Ref: 30 dBm, Att: 30 dB, AQT: 3.125 ms, RSW: 10 MHz, Center: 824.7 MHz, Mean: 23.46 dBm, Peak: 27.92 dBm, Crest: 4.46 dB Complementary Cumulative Distribution Function (100000 samples) Trace 1 <table><tr><td>Mean</td><td>23.46 dBm</td></tr><tr><td>Peak</td><td>27.92 dBm</td></tr><tr><td>Crest</td><td>4.46 dB</td></tr></table> <table><tr><td>10 %</td><td>2.40 dB</td></tr><tr><td>1 %</td><td>3.56 dB</td></tr><tr><td>.1 %</td><td>4.04 dB</td></tr><tr><td>.01 %</td><td>4.32 dB</td></tr></table> Date: 5.AUG.2015 09:52:23	Mean	23.46 dBm	Peak	27.92 dBm	Crest	4.46 dB	10 %	2.40 dB	1 %	3.56 dB	.1 %	4.04 dB	.01 %	4.32 dB	 Ref: 30 dBm, Att: 30 dB, AQT: 3.125 ms, RSW: 10 MHz, Center: 1.85123 GHz, Mean: 24.31 dBm, Peak: 27.92 dBm, Crest: 3.61 dB Complementary Cumulative Distribution Function (100000 samples) Trace 1 <table><tr><td>Mean</td><td>24.31 dBm</td></tr><tr><td>Peak</td><td>27.92 dBm</td></tr><tr><td>Crest</td><td>3.61 dB</td></tr></table> <table><tr><td>10 %</td><td>2.36 dB</td></tr><tr><td>1 %</td><td>3.12 dB</td></tr><tr><td>.1 %</td><td>3.36 dB</td></tr><tr><td>.01 %</td><td>3.52 dB</td></tr></table> Date: 5.AUG.2015 10:18:41	Mean	24.31 dBm	Peak	27.92 dBm	Crest	3.61 dB	10 %	2.36 dB	1 %	3.12 dB	.1 %	3.36 dB	.01 %	3.52 dB
Mean	23.46 dBm																												
Peak	27.92 dBm																												
Crest	4.46 dB																												
10 %	2.40 dB																												
1 %	3.56 dB																												
.1 %	4.04 dB																												
.01 %	4.32 dB																												
Mean	24.31 dBm																												
Peak	27.92 dBm																												
Crest	3.61 dB																												
10 %	2.36 dB																												
1 %	3.12 dB																												
.1 %	3.36 dB																												
.01 %	3.52 dB																												
Middle Channel	Middle Channel																												
 Ref: 30 dBm, Att: 30 dB, AQT: 3.125 ms, RSW: 10 MHz, Center: 835.52 MHz, Mean: 23.12 dBm, Peak: 27.64 dBm, Crest: 4.52 dB Complementary Cumulative Distribution Function (100000 samples) Trace 1 <table><tr><td>Mean</td><td>23.12 dBm</td></tr><tr><td>Peak</td><td>27.64 dBm</td></tr><tr><td>Crest</td><td>4.52 dB</td></tr></table> <table><tr><td>10 %</td><td>2.32 dB</td></tr><tr><td>1 %</td><td>3.40 dB</td></tr><tr><td>.1 %</td><td>3.88 dB</td></tr><tr><td>.01 %</td><td>4.28 dB</td></tr></table> Date: 5.AUG.2015 09:52:33	Mean	23.12 dBm	Peak	27.64 dBm	Crest	4.52 dB	10 %	2.32 dB	1 %	3.40 dB	.1 %	3.88 dB	.01 %	4.28 dB	 Ref: 30 dBm, Att: 30 dB, AQT: 3.125 ms, RSW: 10 MHz, Center: 1.88 GHz, Mean: 23.45 dBm, Peak: 28.35 dBm, Crest: 4.90 dB Complementary Cumulative Distribution Function (100000 samples) Trace 1 <table><tr><td>Mean</td><td>23.45 dBm</td></tr><tr><td>Peak</td><td>28.35 dBm</td></tr><tr><td>Crest</td><td>4.90 dB</td></tr></table> <table><tr><td>10 %</td><td>2.52 dB</td></tr><tr><td>1 %</td><td>3.88 dB</td></tr><tr><td>.1 %</td><td>4.44 dB</td></tr><tr><td>.01 %</td><td>4.72 dB</td></tr></table> Date: 5.AUG.2015 10:18:51	Mean	23.45 dBm	Peak	28.35 dBm	Crest	4.90 dB	10 %	2.52 dB	1 %	3.88 dB	.1 %	4.44 dB	.01 %	4.72 dB
Mean	23.12 dBm																												
Peak	27.64 dBm																												
Crest	4.52 dB																												
10 %	2.32 dB																												
1 %	3.40 dB																												
.1 %	3.88 dB																												
.01 %	4.28 dB																												
Mean	23.45 dBm																												
Peak	28.35 dBm																												
Crest	4.90 dB																												
10 %	2.52 dB																												
1 %	3.88 dB																												
.1 %	4.44 dB																												
.01 %	4.72 dB																												
Highest Channel	Highest Channel																												
 Ref: 30 dBm, Att: 30 dB, AQT: 3.125 ms, RSW: 10 MHz, Center: 848.31 MHz, Mean: 23.42 dBm, Peak: 27.50 dBm, Crest: 4.08 dB Complementary Cumulative Distribution Function (100000 samples) Trace 1 <table><tr><td>Mean</td><td>23.42 dBm</td></tr><tr><td>Peak</td><td>27.50 dBm</td></tr><tr><td>Crest</td><td>4.08 dB</td></tr></table> <table><tr><td>10 %</td><td>2.24 dB</td></tr><tr><td>1 %</td><td>3.28 dB</td></tr><tr><td>.1 %</td><td>3.72 dB</td></tr><tr><td>.01 %</td><td>3.88 dB</td></tr></table> Date: 5.AUG.2015 09:52:43	Mean	23.42 dBm	Peak	27.50 dBm	Crest	4.08 dB	10 %	2.24 dB	1 %	3.28 dB	.1 %	3.72 dB	.01 %	3.88 dB	 Ref: 30 dBm, Att: 30 dB, AQT: 3.125 ms, RSW: 10 MHz, Center: 1.90875 GHz, Mean: 23.02 dBm, Peak: 27.71 dBm, Crest: 4.69 dB Complementary Cumulative Distribution Function (100000 samples) Trace 1 <table><tr><td>Mean</td><td>23.02 dBm</td></tr><tr><td>Peak</td><td>27.71 dBm</td></tr><tr><td>Crest</td><td>4.69 dB</td></tr></table> <table><tr><td>10 %</td><td>2.52 dB</td></tr><tr><td>1 %</td><td>3.80 dB</td></tr><tr><td>.1 %</td><td>4.36 dB</td></tr><tr><td>.01 %</td><td>4.60 dB</td></tr></table> Date: 5.AUG.2015 10:19:00	Mean	23.02 dBm	Peak	27.71 dBm	Crest	4.69 dB	10 %	2.52 dB	1 %	3.80 dB	.1 %	4.36 dB	.01 %	4.60 dB
Mean	23.42 dBm																												
Peak	27.50 dBm																												
Crest	4.08 dB																												
10 %	2.24 dB																												
1 %	3.28 dB																												
.1 %	3.72 dB																												
.01 %	3.88 dB																												
Mean	23.02 dBm																												
Peak	27.71 dBm																												
Crest	4.69 dB																												
10 %	2.52 dB																												
1 %	3.80 dB																												
.1 %	4.36 dB																												
.01 %	4.60 dB																												



CDMA BC0 (1xEV-DO Rev. 0)	CDMA BC1 (1xEV-DO Rev. 0)																
Lowest Channel	Lowest Channel																
 Ref: 30 dBm Att: 30 dB AQT: 3.125 ms Center: 824.7 MHz 2 dB/ Mean: Per + 20 dB Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean: 23.18 dBm Peak: 27.64 dBm Crest: 4.46 dB <table><tr><td>10 %</td><td>2.44 dB</td></tr><tr><td>1 %</td><td>3.60 dB</td></tr><tr><td>.1 %</td><td>4.16 dB</td></tr><tr><td>.01 %</td><td>4.40 dB</td></tr></table> Date: 5.AUG.2015 10:44:15	10 %	2.44 dB	1 %	3.60 dB	.1 %	4.16 dB	.01 %	4.40 dB	 Ref: 30 dBm Att: 30 dB AQT: 3.125 ms Center: 1.85125 GHz 2 dB/ Mean: Per + 20 dB Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean: 24.45 dBm Peak: 27.92 dBm Crest: 3.48 dB <table><tr><td>10 %</td><td>2.28 dB</td></tr><tr><td>1 %</td><td>3.04 dB</td></tr><tr><td>.1 %</td><td>3.28 dB</td></tr><tr><td>.01 %</td><td>3.44 dB</td></tr></table> Date: 5.AUG.2015 10:58:36	10 %	2.28 dB	1 %	3.04 dB	.1 %	3.28 dB	.01 %	3.44 dB
10 %	2.44 dB																
1 %	3.60 dB																
.1 %	4.16 dB																
.01 %	4.40 dB																
10 %	2.28 dB																
1 %	3.04 dB																
.1 %	3.28 dB																
.01 %	3.44 dB																
Middle Channel	Middle Channel																
 Ref: 30 dBm Att: 30 dB AQT: 3.125 ms Center: 835.52 MHz 2 dB/ Mean: Per + 20 dB Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean: 23.15 dBm Peak: 27.50 dBm Crest: 4.35 dB <table><tr><td>10 %</td><td>2.24 dB</td></tr><tr><td>1 %</td><td>3.36 dB</td></tr><tr><td>.1 %</td><td>3.88 dB</td></tr><tr><td>.01 %</td><td>4.16 dB</td></tr></table> Date: 5.AUG.2015 10:44:26	10 %	2.24 dB	1 %	3.36 dB	.1 %	3.88 dB	.01 %	4.16 dB	 Ref: 30 dBm Att: 30 dB AQT: 3.125 ms Center: 1.88 GHz 2 dB/ Mean: Per + 20 dB Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean: 23.30 dBm Peak: 28.21 dBm Crest: 4.91 dB <table><tr><td>10 %</td><td>2.52 dB</td></tr><tr><td>1 %</td><td>3.92 dB</td></tr><tr><td>.1 %</td><td>4.48 dB</td></tr><tr><td>.01 %</td><td>4.80 dB</td></tr></table> Date: 5.AUG.2015 10:58:49	10 %	2.52 dB	1 %	3.92 dB	.1 %	4.48 dB	.01 %	4.80 dB
10 %	2.24 dB																
1 %	3.36 dB																
.1 %	3.88 dB																
.01 %	4.16 dB																
10 %	2.52 dB																
1 %	3.92 dB																
.1 %	4.48 dB																
.01 %	4.80 dB																
Highest Channel	Highest Channel																
 Ref: 30 dBm Att: 30 dB AQT: 3.125 ms Center: 848.31 MHz 2 dB/ Mean: Per + 20 dB Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean: 23.47 dBm Peak: 27.50 dBm Crest: 4.03 dB <table><tr><td>10 %</td><td>2.24 dB</td></tr><tr><td>1 %</td><td>3.28 dB</td></tr><tr><td>.1 %</td><td>3.72 dB</td></tr><tr><td>.01 %</td><td>3.88 dB</td></tr></table> Date: 5.AUG.2015 10:44:37	10 %	2.24 dB	1 %	3.28 dB	.1 %	3.72 dB	.01 %	3.88 dB	 Ref: 30 dBm Att: 30 dB AQT: 3.125 ms Center: 1.90875 GHz 2 dB/ Mean: Per + 20 dB Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean: 22.85 dBm Peak: 27.50 dBm Crest: 4.65 dB <table><tr><td>10 %</td><td>2.56 dB</td></tr><tr><td>1 %</td><td>3.76 dB</td></tr><tr><td>.1 %</td><td>4.28 dB</td></tr><tr><td>.01 %</td><td>4.52 dB</td></tr></table> Date: 5.AUG.2015 10:59:00	10 %	2.56 dB	1 %	3.76 dB	.1 %	4.28 dB	.01 %	4.52 dB
10 %	2.24 dB																
1 %	3.28 dB																
.1 %	3.72 dB																
.01 %	3.88 dB																
10 %	2.56 dB																
1 %	3.76 dB																
.1 %	4.28 dB																
.01 %	4.52 dB																

**26dB Bandwidth**

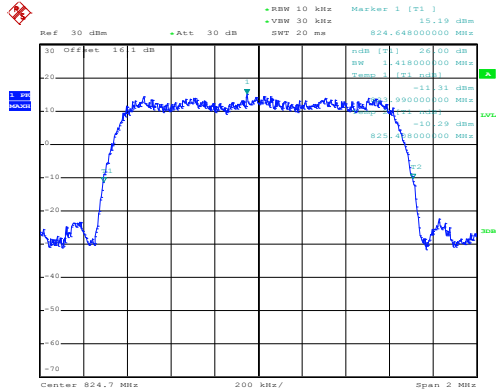
Mode	CDMA BC0	CDMA BC1
Mod.	1xRTT	1xRTT
Lowest CH	1.418	1.438
Middle CH	1.426	1.416
Highest CH	1.430	1.414

Mode	CDMA BC0	CDMA BC1
Mod.	1xEV-DO Rev. 0	1xEV-DO Rev. 0
Lowest CH	1.418	1.418
Middle CH	1.420	1.416
Highest CH	1.442	1.414



CDMA BC0 (1xRTT)

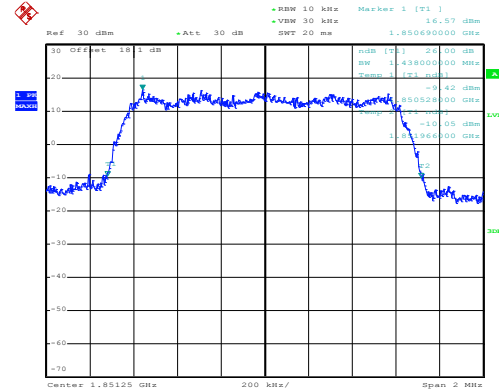
Lowest Channel



Date: 5.AUG.2015 09:43:02

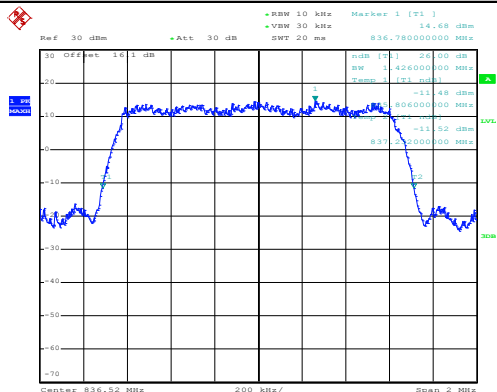
CDMA BC1 (1xRTT)

Lowest Channel



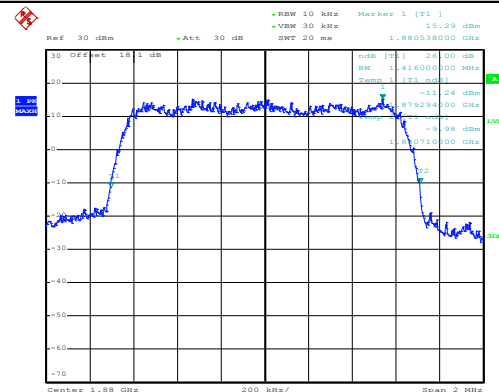
Date: 5.AUG.2015 10:10:37

Middle Channel



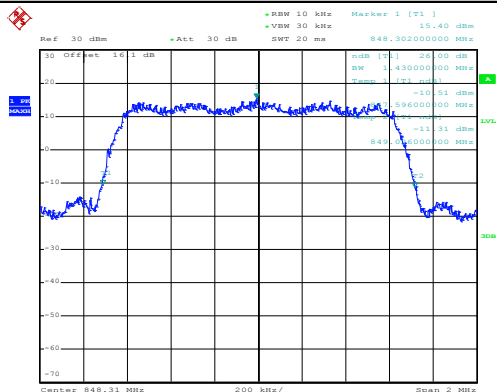
Date: 5.AUG.2015 09:44:19

Middle Channel



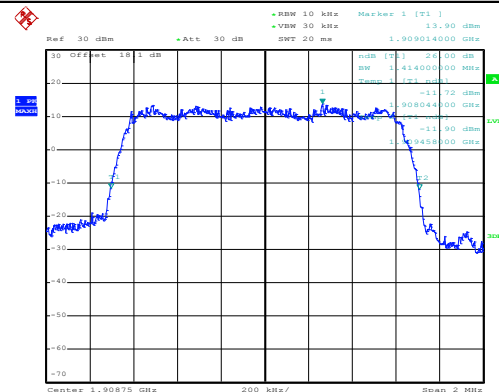
Date: 5.AUG.2015 10:11:11

Highest Channel

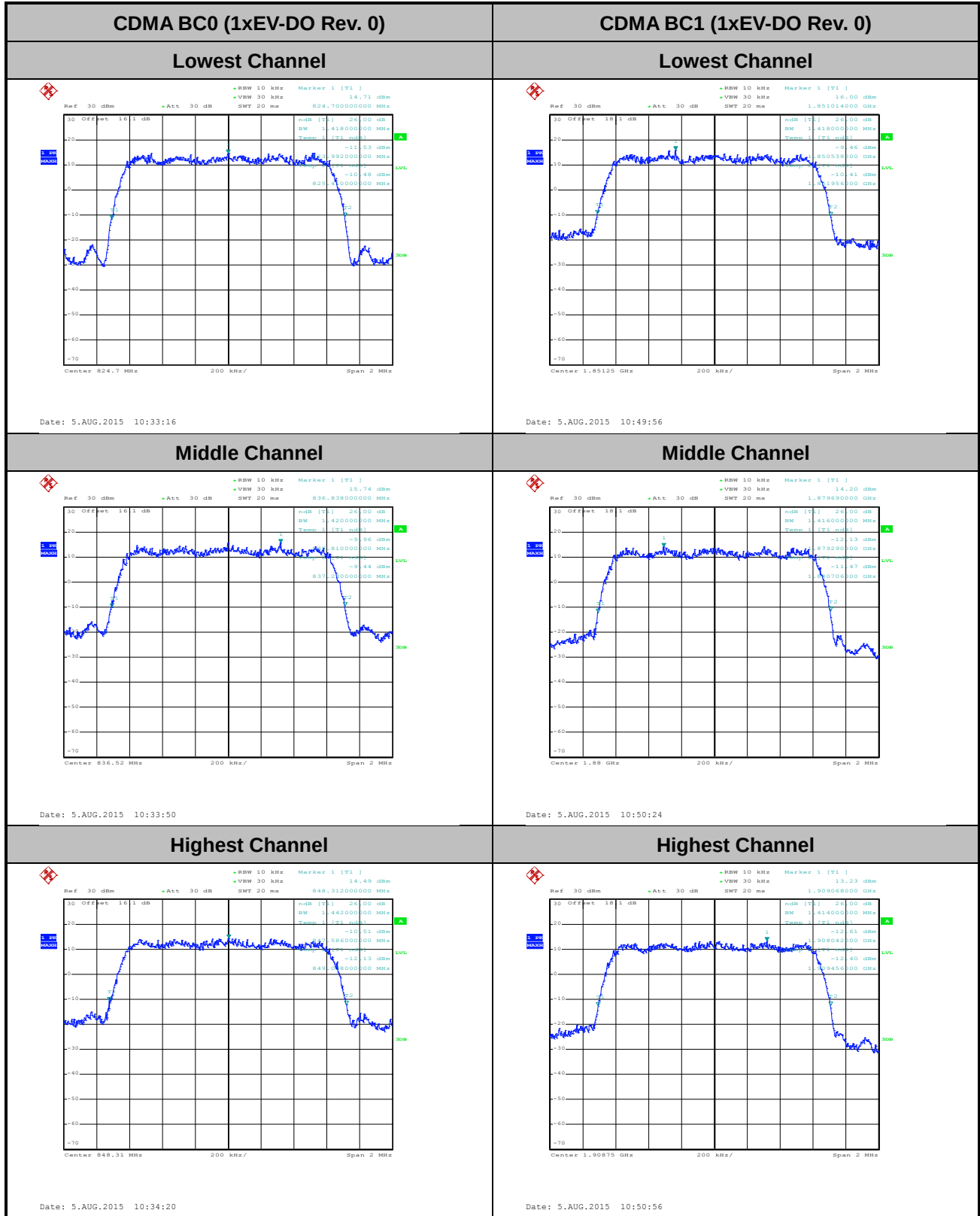


Date: 5.AUG.2015 09:44:51

Highest Channel



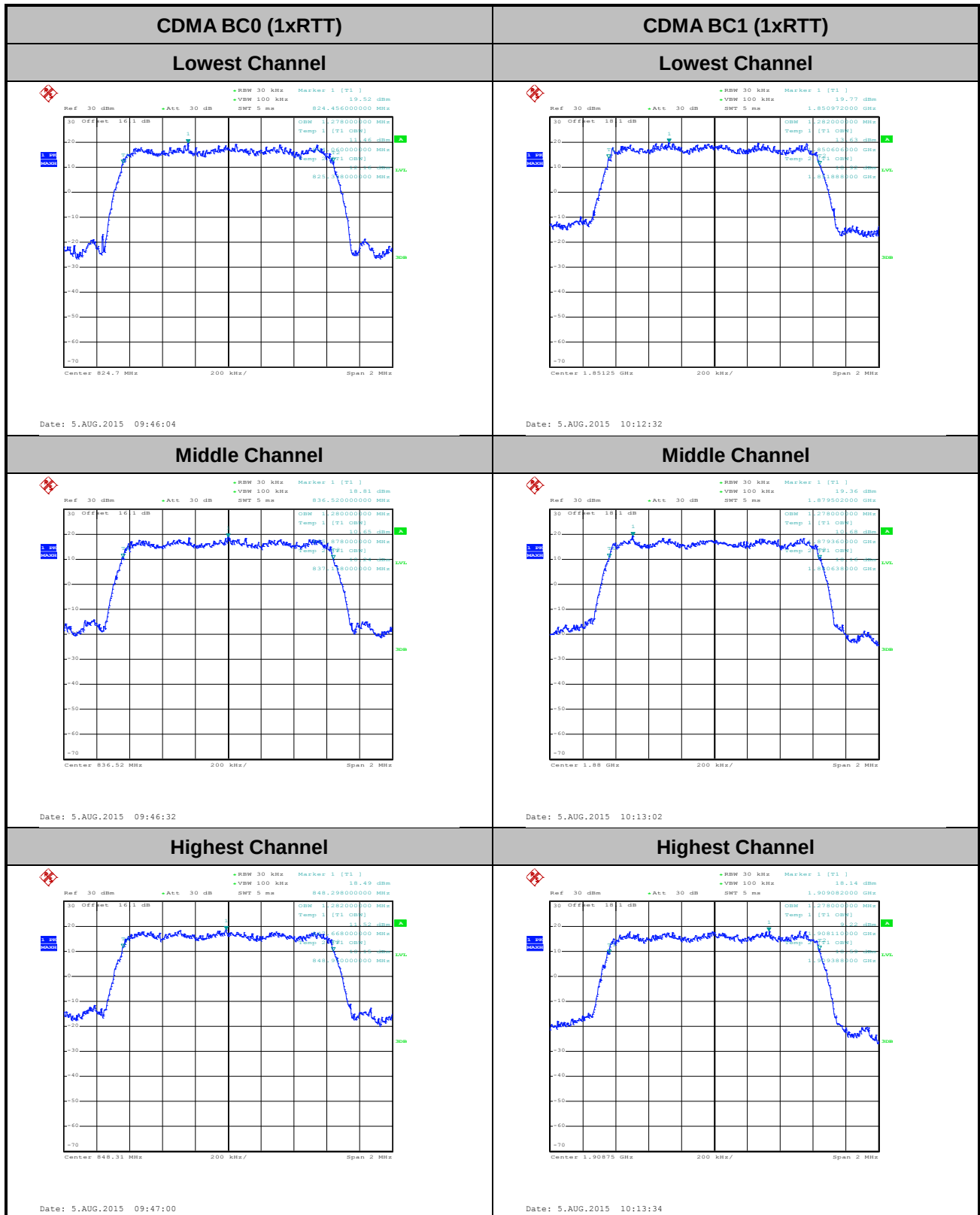
Date: 5.AUG.2015 10:11:43

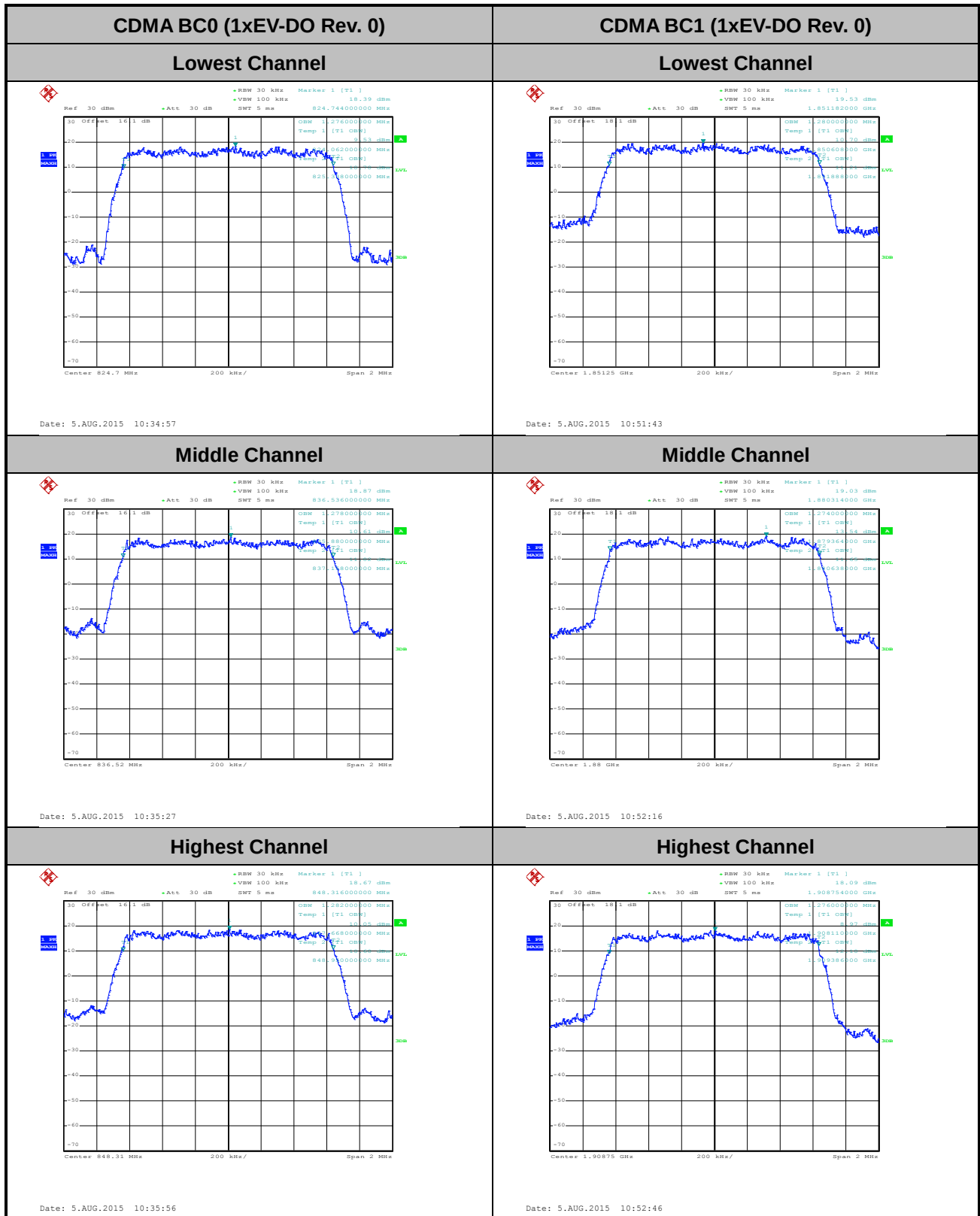


**Occupied Bandwidth**

Mode	CDMA BC0	CDMA BC1
Mod.	1xRTT	1xRTT
Lowest CH	1.278	1.282
Middle CH	1.280	1.278
Highest CH	1.282	1.278

Mode	CDMA BC0	CDMA BC1
Mod.	1xEV-DO Rev. 0	1xEV-DO Rev. 0
Lowest CH	1.276	1.280
Middle CH	1.278	1.274
Highest CH	1.282	1.276





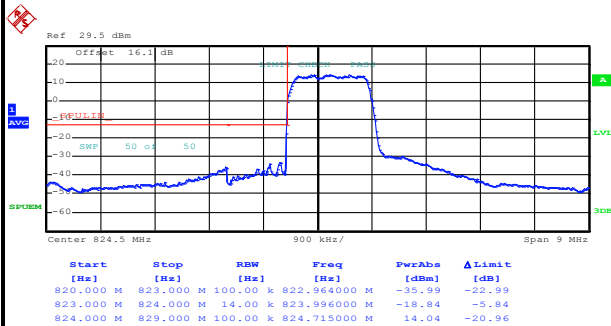


Conducted Band Edge



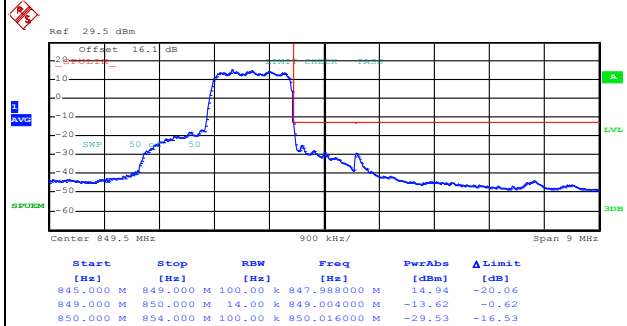
CDMA BC0 (1xRTT)

Lowest Band Edge



Date: 5.AUG.2015 09:48:44

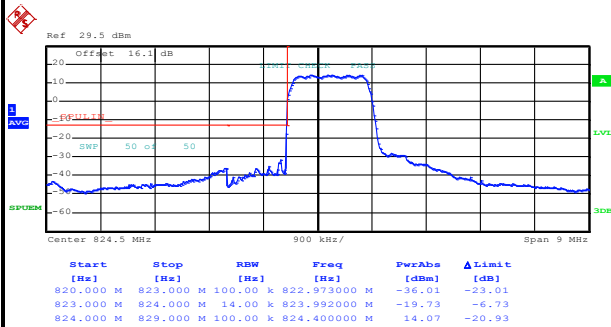
Highest Band Edge



Date: 5.AUG.2015 09:50:17

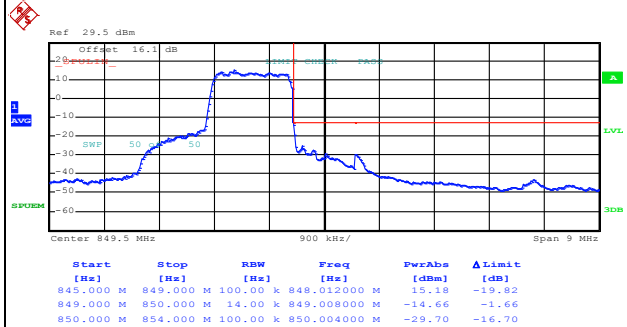
CDMA BC0 (1xEV-DO Rev. 0)

Lowest Band Edge



Date: 5.AUG.2015 10:37:30

Highest Band Edge

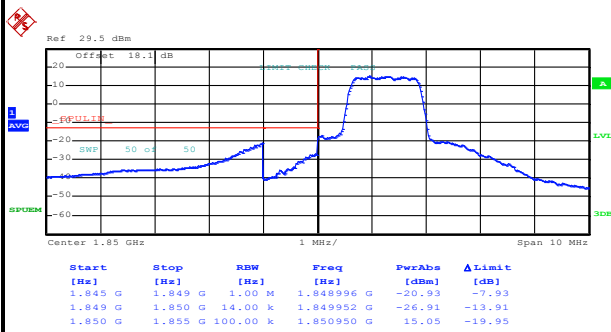


Date: 5.AUG.2015 10:38:58



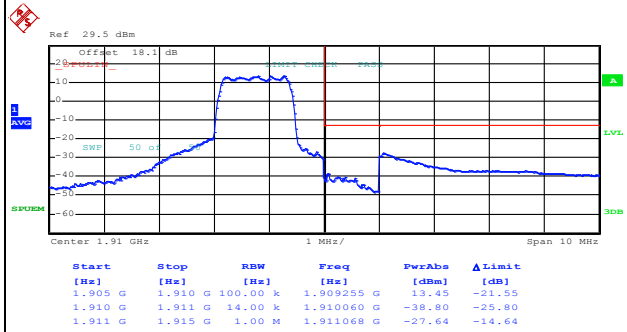
CDMA BC1 (1xRTT)

Lowest Band Edge



Date: 5.AUG.2015 10:15:07

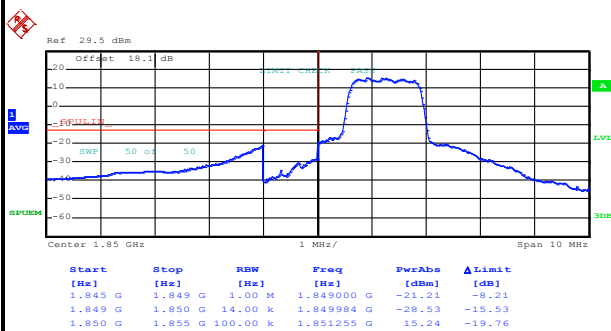
Highest Band Edge



Date: 5.AUG.2015 10:16:37

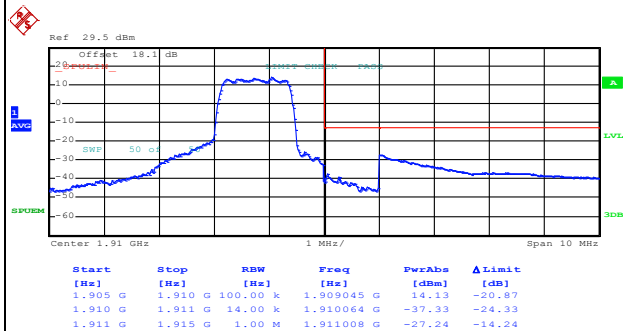
CDMA BC1 (1xEV-DO Rev. 0)

Lowest Band Edge



Date: 5.AUG.2015 10:54:23

Highest Band Edge



Date: 5.AUG.2015 10:55:52

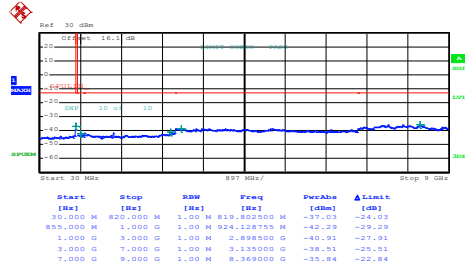


Conducted Spurious Emission



CDMA BC0 (1xRTT)

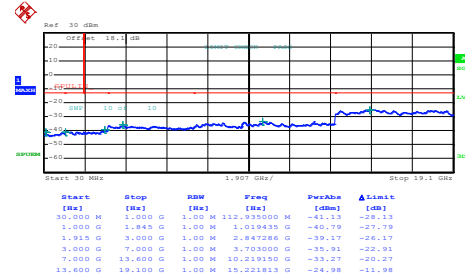
Lowest Channel



Date: 5.AUG.2015 09:50:53

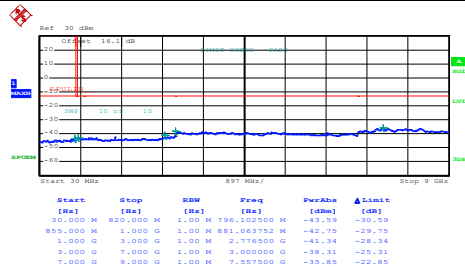
CDMA BC1 (1xRTT)

Lowest Channel



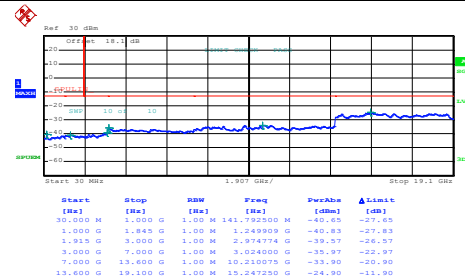
Date: 5.AUG.2015 10:17:12

Middle Channel



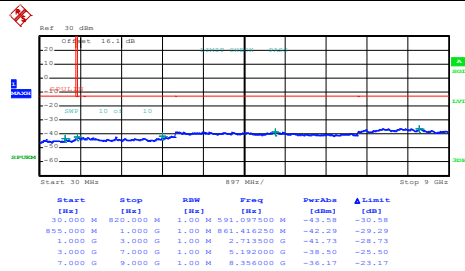
Date: 5.AUG.2015 09:51:25

Middle Channel



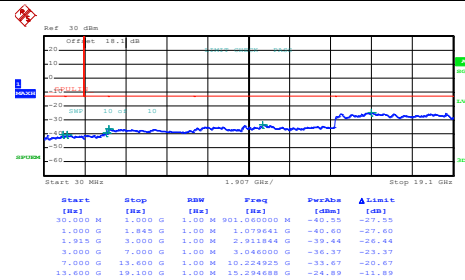
Date: 5.AUG.2015 10:17:44

Highest Channel

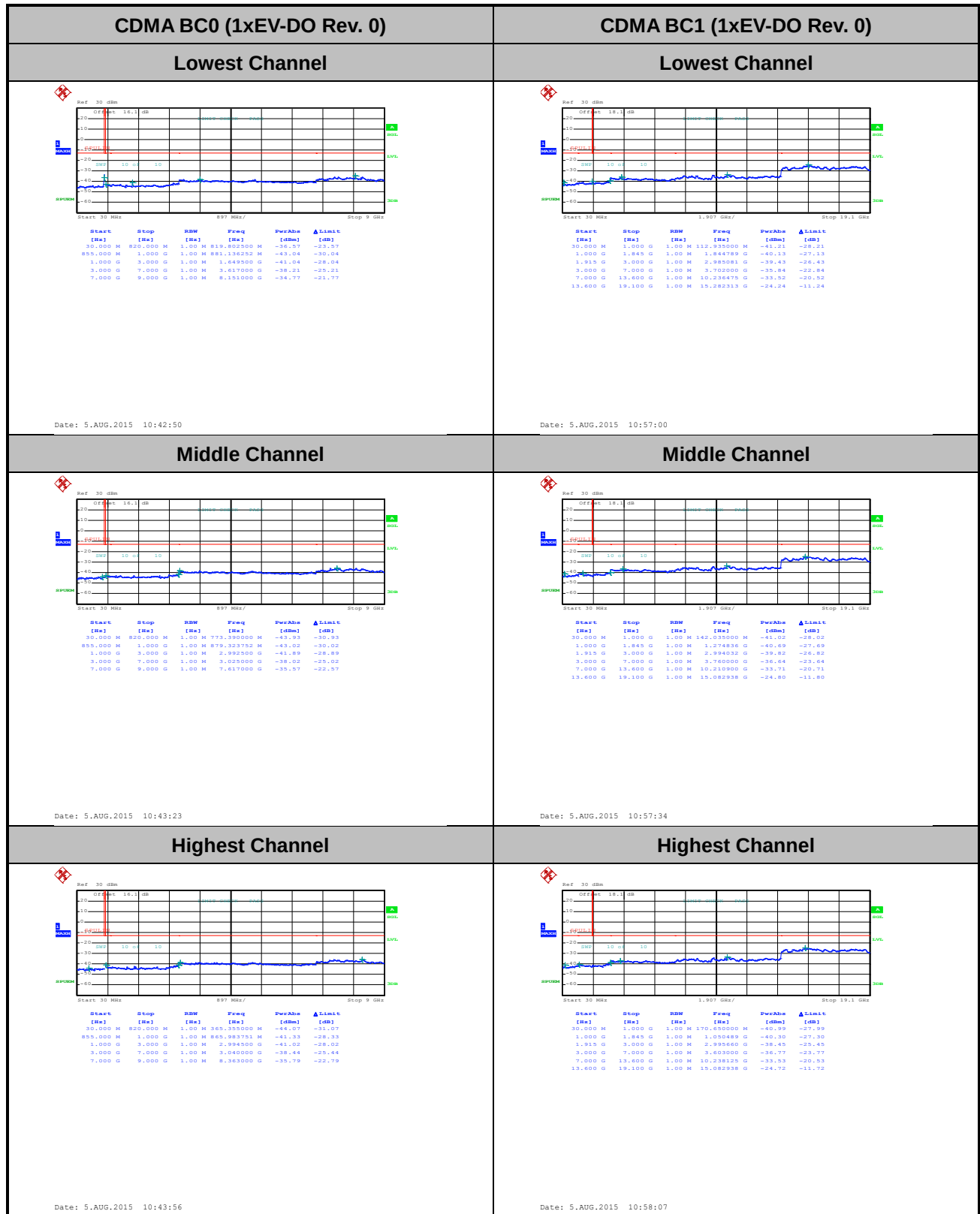


Date: 5.AUG.2015 09:51:59

Highest Channel



Date: 5.AUG.2015 10:18:18



**Frequency Stability**

Test Conditions	Middle Channel	CDMA BC0 (1xRTT)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0335	PASS
40	Normal Voltage	0.0311	
30	Normal Voltage	0.0024	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0299	
0	Normal Voltage	0.0048	
-10	Normal Voltage	0.0263	
-20	Normal Voltage	0.0012	
-30	Normal Voltage	0.0012	
20	Maximum Voltage	0.0323	
20	Normal Voltage	0.0251	
20	Battery End Point	0.0287	

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.



Test Conditions	Middle Channel	CDMA BC1 (1xRTT)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0048	PASS
40	Normal Voltage	0.0021	
30	Normal Voltage	0.0255	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0016	
0	Normal Voltage	0.0239	
-10	Normal Voltage	0.0223	
-20	Normal Voltage	0.0048	
-30	Normal Voltage	0.0234	
20	Maximum Voltage	0.0011	
20	Normal Voltage	0.0037	
20	Battery End Point	0.0027	

Note:

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