



A1. GSM

Peak-to-Average Ratio

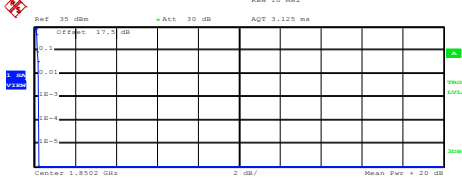
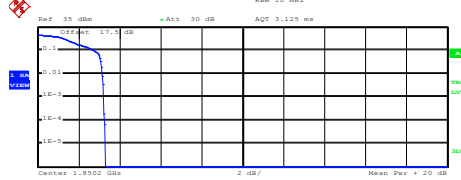
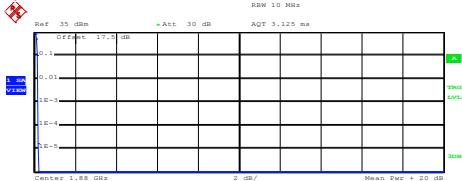
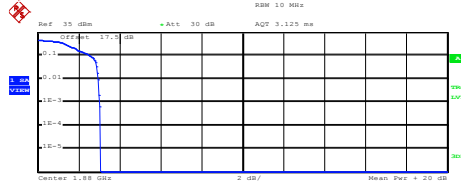
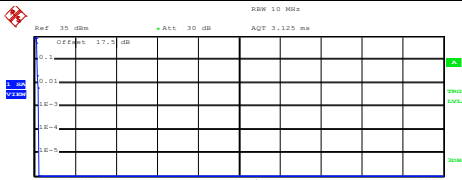
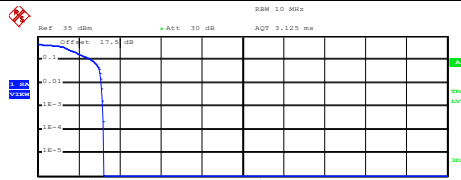
Mode	GSM850		Limit: 13dB
Mod.	GPRS class 8	EDGE class 8	Result
Lowest CH	0.20	3.28	PASS
Middle CH	0.24	3.36	
Highest CH	0.24	3.36	

Mode	GSM1900		Limit: 13dB
Mod.	GPRS class 8	EDGE class 8	Result
Lowest CH	0.24	3.24	PASS
Middle CH	0.20	3.04	
Highest CH	0.24	3.16	



GSM850 (GPRS class 8)	GSM850 (EDGE class 8)
<p align="center">Lowest Channel</p> <p>Ref: 35 dBm +Att: 30 dB AQT: 3.125 ms</p> <p>Center: 824.2 MHz 2 dB/ Mean Pwr: +20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples)</p> <p>Trace 1</p> <p>Mean: 32.10 dBm Peak: 32.36 dBm Crest: 0.25 dB</p> <p>10 %: 0.20 dB 1 %: 0.20 dB .1 %: 0.20 dB .01 %: 0.24 dB</p> <p>Date: 22.MAR.2016 10:04:12</p>	<p align="center">Lowest Channel</p> <p>Ref: 35 dBm +Att: 30 dB AQT: 3.125 ms</p> <p>Center: 824.2 MHz 2 dB/ Mean Pwr: +20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples)</p> <p>Trace 1</p> <p>Mean: 26.36 dBm Peak: 29.68 dBm Crest: 3.32 dB</p> <p>10 %: 2.68 dB 1 %: 3.20 dB .1 %: 3.28 dB .01 %: 3.32 dB</p> <p>Date: 22.MAR.2016 10:29:29</p>
<p align="center">Middle Channel</p> <p>Ref: 35 dBm +Att: 30 dB AQT: 3.125 ms</p> <p>Center: 836.4 MHz 2 dB/ Mean Pwr: +20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples)</p> <p>Trace 1</p> <p>Mean: 31.77 dBm Peak: 32.01 dBm Crest: 0.24 dB</p> <p>10 %: 0.16 dB 1 %: 0.24 dB .1 %: 0.24 dB .01 %: 0.24 dB</p> <p>Date: 22.MAR.2016 10:04:37</p>	<p align="center">Middle Channel</p> <p>Ref: 35 dBm +Att: 30 dB AQT: 3.125 ms</p> <p>Center: 836.4 MHz 2 dB/ Mean Pwr: +20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples)</p> <p>Trace 1</p> <p>Mean: 25.94 dBm Peak: 29.33 dBm Crest: 3.38 dB</p> <p>10 %: 2.68 dB 1 %: 3.24 dB .1 %: 3.36 dB .01 %: 3.40 dB</p> <p>Date: 22.MAR.2016 10:29:46</p>
<p align="center">Highest Channel</p> <p>Ref: 35 dBm +Att: 30 dB AQT: 3.125 ms</p> <p>Center: 848.8 MHz 2 dB/ Mean Pwr: +20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples)</p> <p>Trace 1</p> <p>Mean: 31.64 dBm Peak: 31.86 dBm Crest: 0.22 dB</p> <p>10 %: 0.20 dB 1 %: 0.24 dB .1 %: 0.24 dB .01 %: 0.24 dB</p> <p>Date: 22.MAR.2016 10:04:54</p>	<p align="center">Highest Channel</p> <p>Ref: 35 dBm +Att: 30 dB AQT: 3.125 ms</p> <p>Center: 848.8 MHz 2 dB/ Mean Pwr: +20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples)</p> <p>Trace 1</p> <p>Mean: 25.77 dBm Peak: 29.25 dBm Crest: 3.49 dB</p> <p>10 %: 2.72 dB 1 %: 3.28 dB .1 %: 3.36 dB .01 %: 3.44 dB</p> <p>Date: 22.MAR.2016 10:30:10</p>



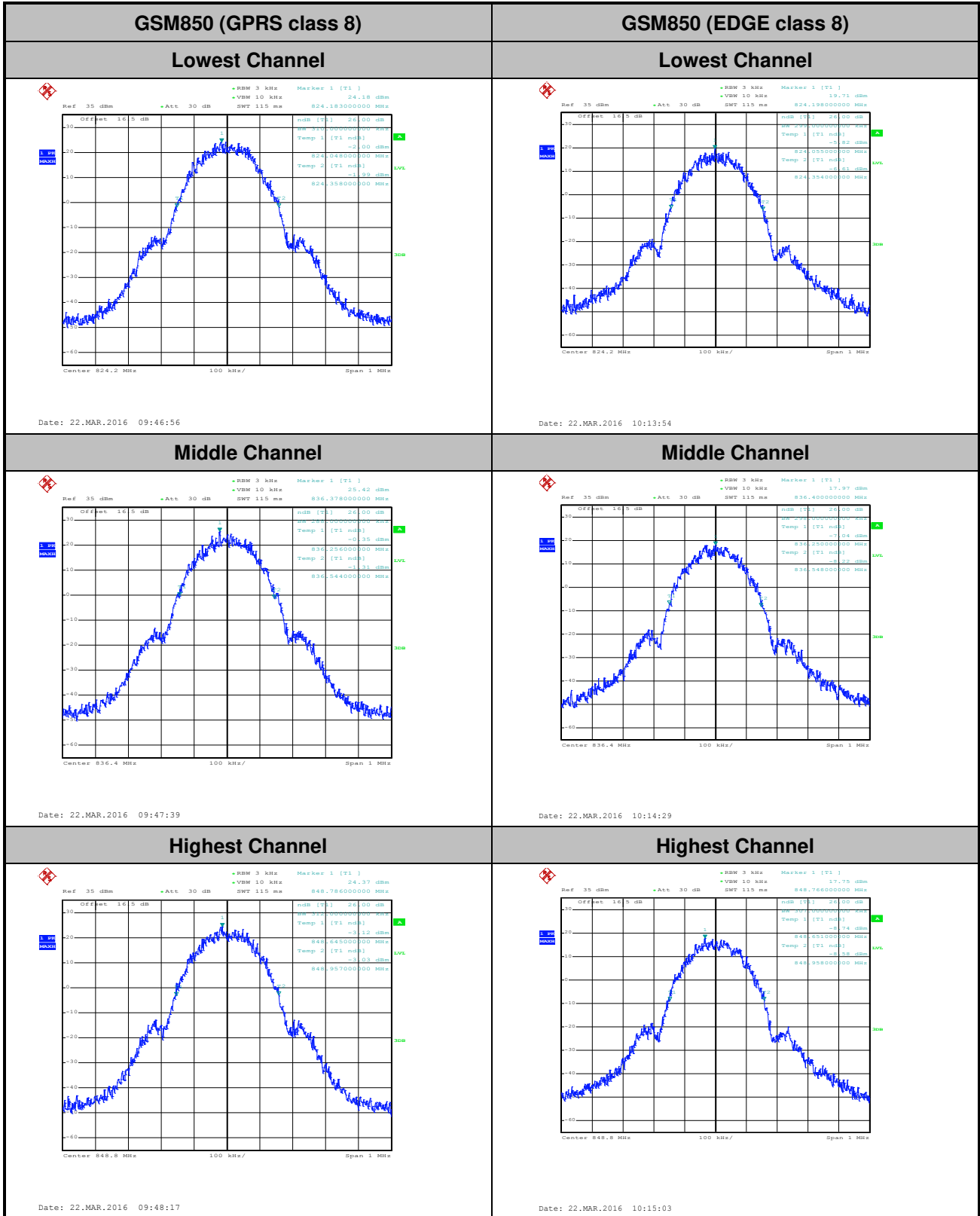
GSM1900 (GPRS class 8)	GSM1900 (EDGE class 8)																												
<p style="text-align: center;">Lowest Channel</p>  <p>Center 1.8502 GHz 2 dB/ Mean Pwr + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1</p> <table border="1"> <tr><td>Mean</td><td>28.61 dBm</td></tr> <tr><td>Peak</td><td>28.83 dBm</td></tr> <tr><td>Crest</td><td>0.22 dB</td></tr> </table> <table border="1"> <tr><td>10 %</td><td>0.16 dB</td></tr> <tr><td>1 %</td><td>0.24 dB</td></tr> <tr><td>.1 %</td><td>0.24 dB</td></tr> <tr><td>.01 %</td><td>0.24 dB</td></tr> </table> <p>Date: 22.MAR.2016 10:56:47</p>	Mean	28.61 dBm	Peak	28.83 dBm	Crest	0.22 dB	10 %	0.16 dB	1 %	0.24 dB	.1 %	0.24 dB	.01 %	0.24 dB	<p style="text-align: center;">Lowest Channel</p>  <p>Center 1.8502 GHz 2 dB/ Mean Pwr + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1</p> <table border="1"> <tr><td>Mean</td><td>24.48 dBm</td></tr> <tr><td>Peak</td><td>27.77 dBm</td></tr> <tr><td>Crest</td><td>3.30 dB</td></tr> </table> <table border="1"> <tr><td>10 %</td><td>2.76 dB</td></tr> <tr><td>1 %</td><td>3.16 dB</td></tr> <tr><td>.1 %</td><td>3.24 dB</td></tr> <tr><td>.01 %</td><td>3.28 dB</td></tr> </table> <p>Date: 22.MAR.2016 11:24:02</p>	Mean	24.48 dBm	Peak	27.77 dBm	Crest	3.30 dB	10 %	2.76 dB	1 %	3.16 dB	.1 %	3.24 dB	.01 %	3.28 dB
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<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</p> <table border="1"> <tr><td>Mean</td><td>29.09 dBm</td></tr> <tr><td>Peak</td><td>29.33 dBm</td></tr> <tr><td>Crest</td><td>0.24 dB</td></tr> </table> <table border="1"> <tr><td>10 %</td><td>0.16 dB</td></tr> <tr><td>1 %</td><td>0.20 dB</td></tr> <tr><td>.1 %</td><td>0.20 dB</td></tr> <tr><td>.01 %</td><td>0.20 dB</td></tr> </table> <p>Date: 22.MAR.2016 10:57:03</p>	Mean	29.09 dBm	Peak	29.33 dBm	Crest	0.24 dB	10 %	0.16 dB	1 %	0.20 dB	.1 %	0.20 dB	.01 %	0.20 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</p> <table border="1"> <tr><td>Mean</td><td>25.00 dBm</td></tr> <tr><td>Peak</td><td>28.06 dBm</td></tr> <tr><td>Crest</td><td>3.05 dB</td></tr> </table> <table border="1"> <tr><td>10 %</td><td>2.56 dB</td></tr> <tr><td>1 %</td><td>2.96 dB</td></tr> <tr><td>.1 %</td><td>3.04 dB</td></tr> <tr><td>.01 %</td><td>3.08 dB</td></tr> </table> <p>Date: 22.MAR.2016 11:24:20</p>	Mean	25.00 dBm	Peak	28.06 dBm	Crest	3.05 dB	10 %	2.56 dB	1 %	2.96 dB	.1 %	3.04 dB	.01 %	3.08 dB
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<p style="text-align: center;">Highest Channel</p>  <p>Center 1.9098 GHz 2 dB/ Mean Pwr + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1</p> <table border="1"> <tr><td>Mean</td><td>28.81 dBm</td></tr> <tr><td>Peak</td><td>29.04 dBm</td></tr> <tr><td>Crest</td><td>0.23 dB</td></tr> </table> <table border="1"> <tr><td>10 %</td><td>0.16 dB</td></tr> <tr><td>1 %</td><td>0.20 dB</td></tr> <tr><td>.1 %</td><td>0.24 dB</td></tr> <tr><td>.01 %</td><td>0.24 dB</td></tr> </table> <p>Date: 22.MAR.2016 10:57:43</p>	Mean	28.81 dBm	Peak	29.04 dBm	Crest	0.23 dB	10 %	0.16 dB	1 %	0.20 dB	.1 %	0.24 dB	.01 %	0.24 dB	<p style="text-align: center;">Highest Channel</p>  <p>Center 1.9098 GHz 2 dB/ Mean Pwr + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1</p> <table border="1"> <tr><td>Mean</td><td>24.64 dBm</td></tr> <tr><td>Peak</td><td>27.84 dBm</td></tr> <tr><td>Crest</td><td>3.20 dB</td></tr> </table> <table border="1"> <tr><td>10 %</td><td>2.64 dB</td></tr> <tr><td>1 %</td><td>3.12 dB</td></tr> <tr><td>.1 %</td><td>3.16 dB</td></tr> <tr><td>.01 %</td><td>3.24 dB</td></tr> </table> <p>Date: 22.MAR.2016 11:24:44</p>	Mean	24.64 dBm	Peak	27.84 dBm	Crest	3.20 dB	10 %	2.64 dB	1 %	3.12 dB	.1 %	3.16 dB	.01 %	3.24 dB
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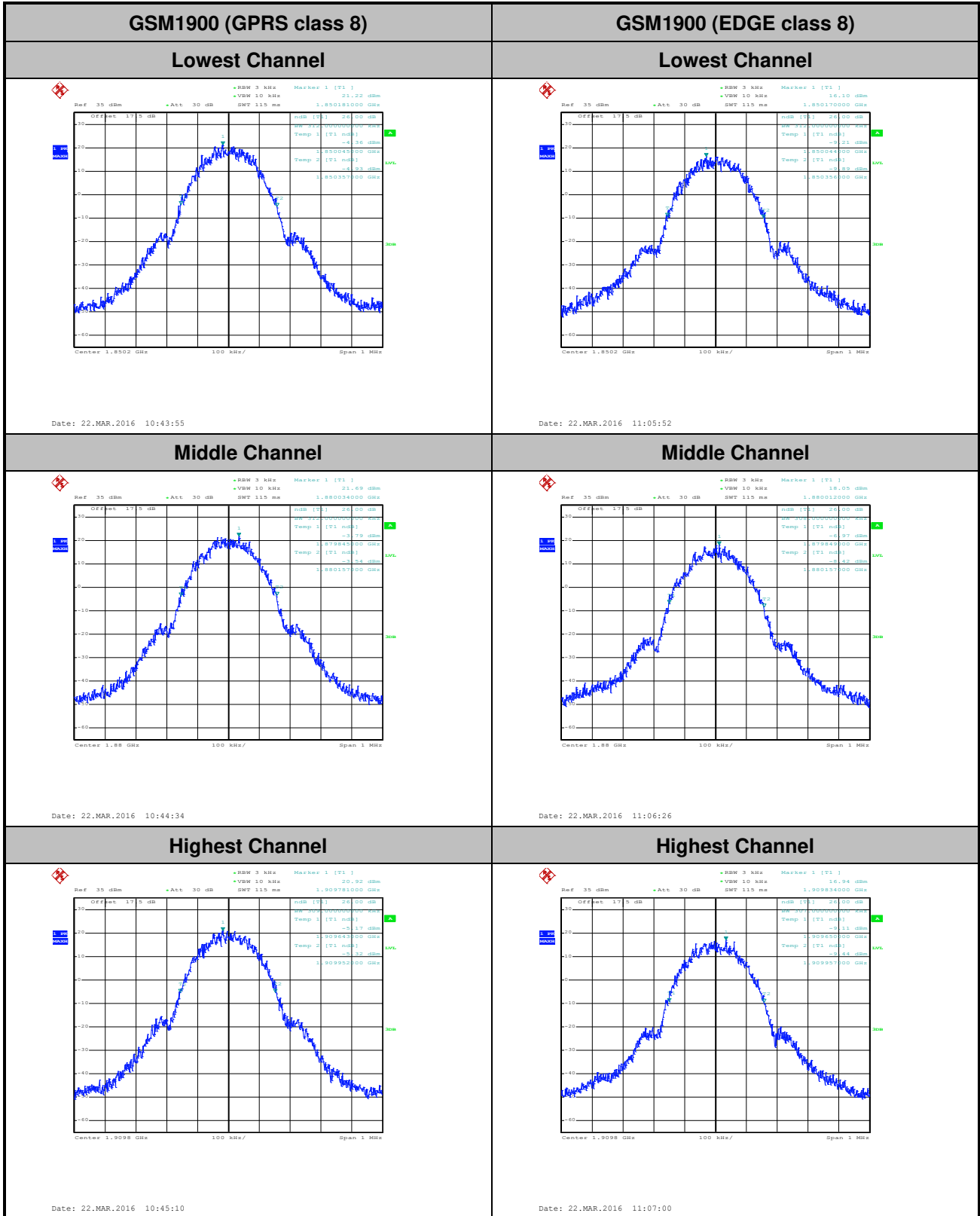


26dB Bandwidth

Mode	GSM850	
Mod.	GPRS class 8	EDGE class 8
Lowest CH	0.310	0.299
Middle CH	0.288	0.298
Highest CH	0.312	0.307

Mode	GSM1900	
Mod.	GPRS class 8	EDGE class 8
Lowest CH	0.312	0.312
Middle CH	0.312	0.308
Highest CH	0.309	0.307



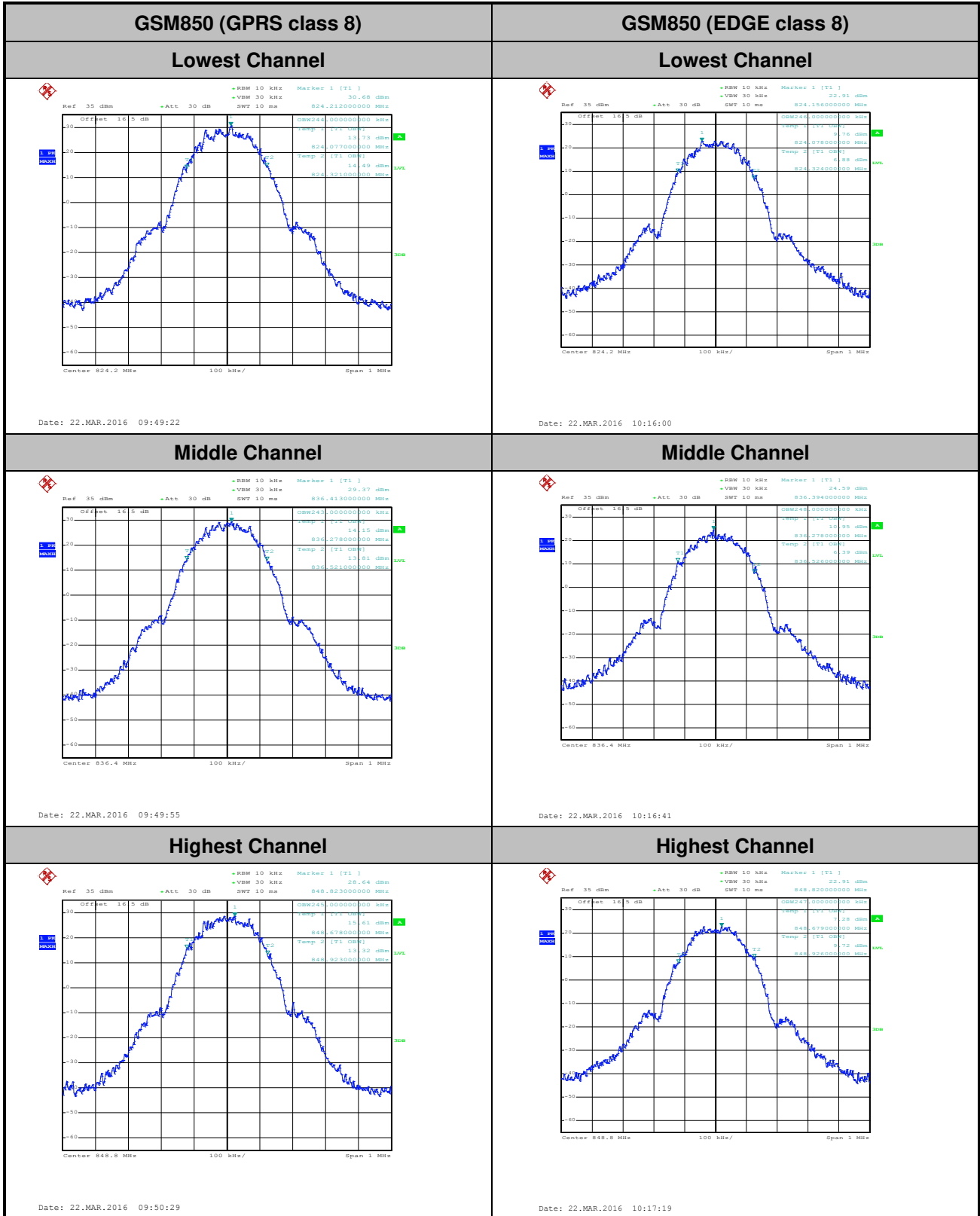


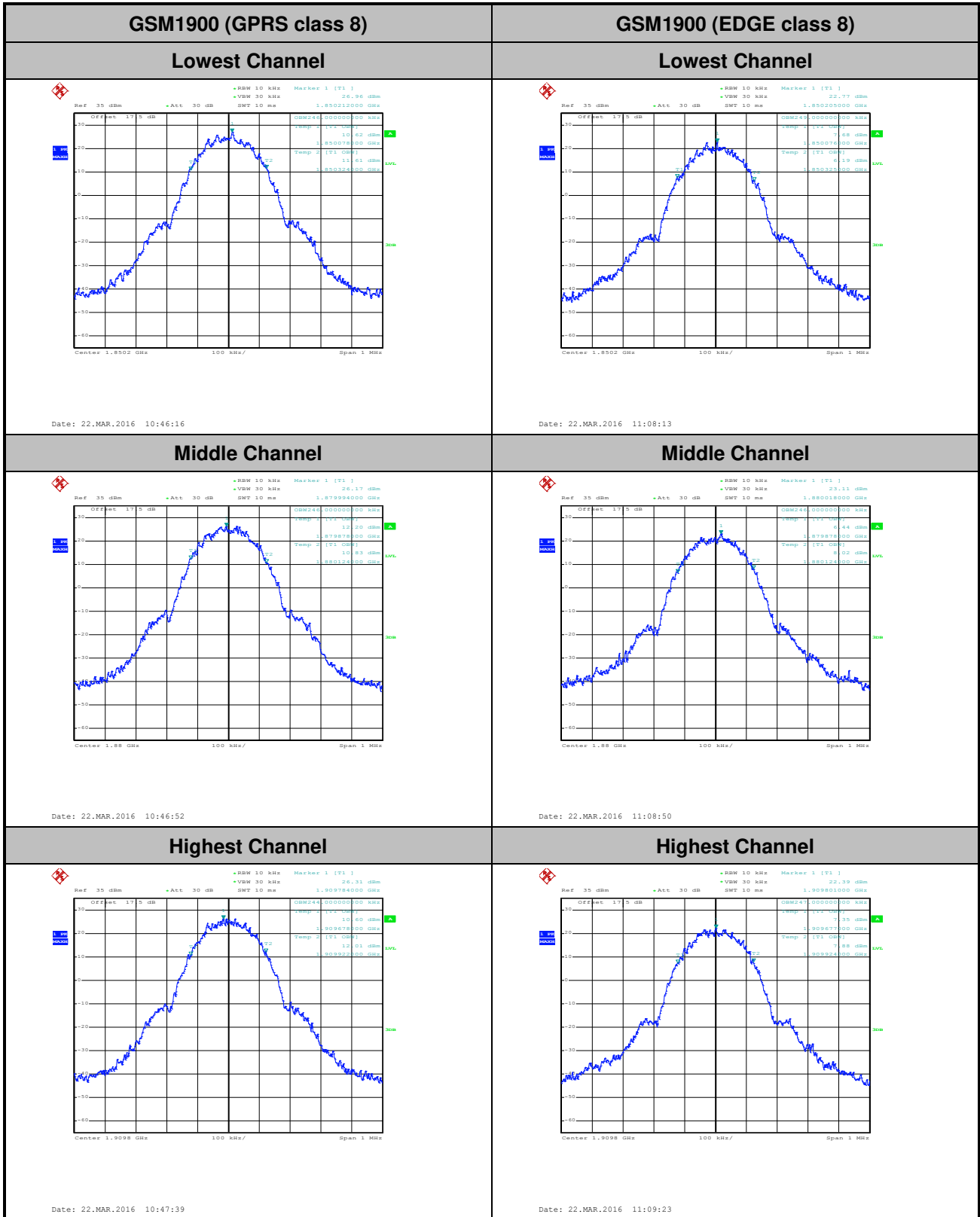


Occupied Bandwidth

Mode	GSM850	
Mod.	GPRS class 8	EDGE class 8
Lowest CH	0.244	0.246
Middle CH	0.243	0.248
Highest CH	0.245	0.247

Mode	GSM1900	
Mod.	GPRS class 8	EDGE class 8
Lowest CH	0.246	0.249
Middle CH	0.246	0.246
Highest CH	0.244	0.247

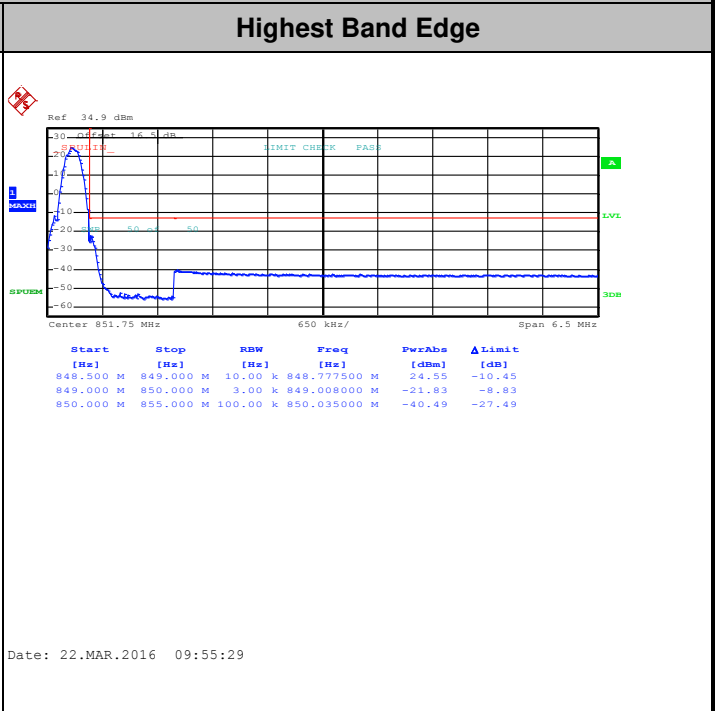
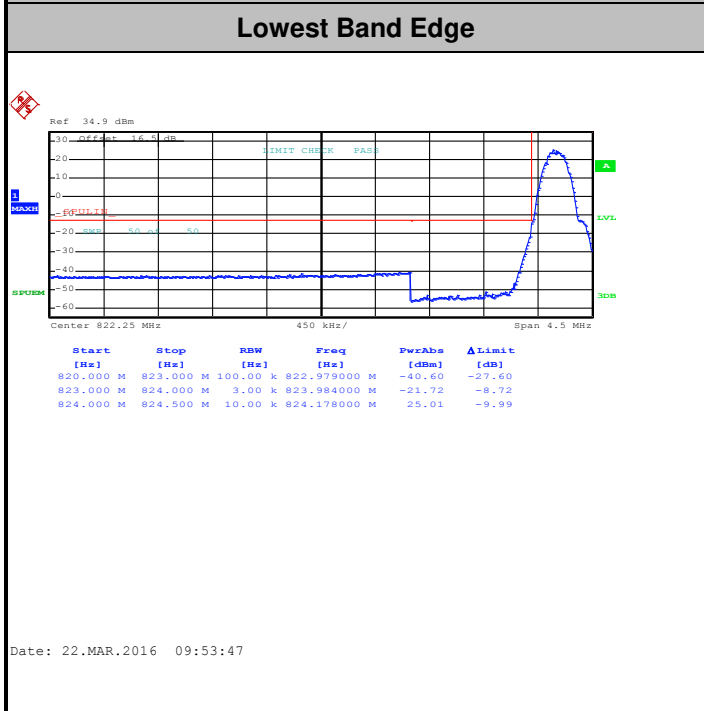




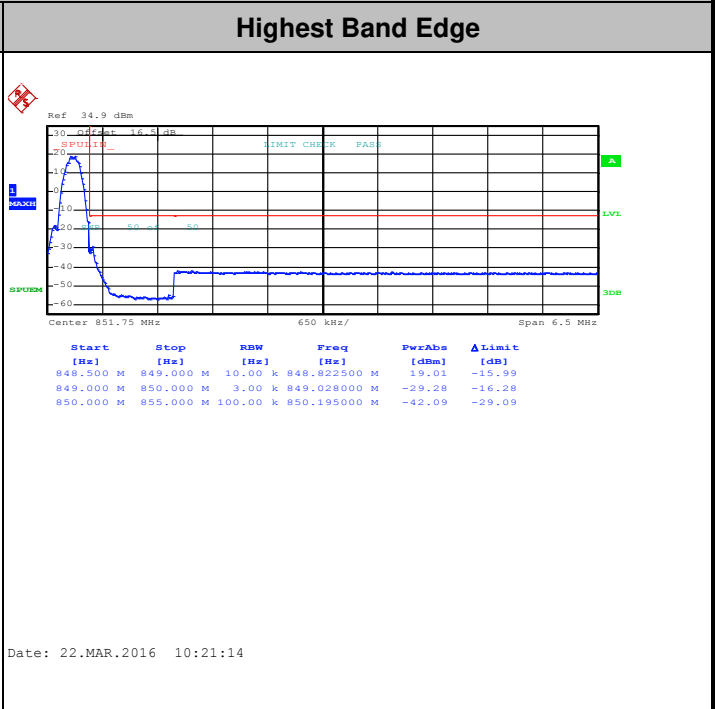
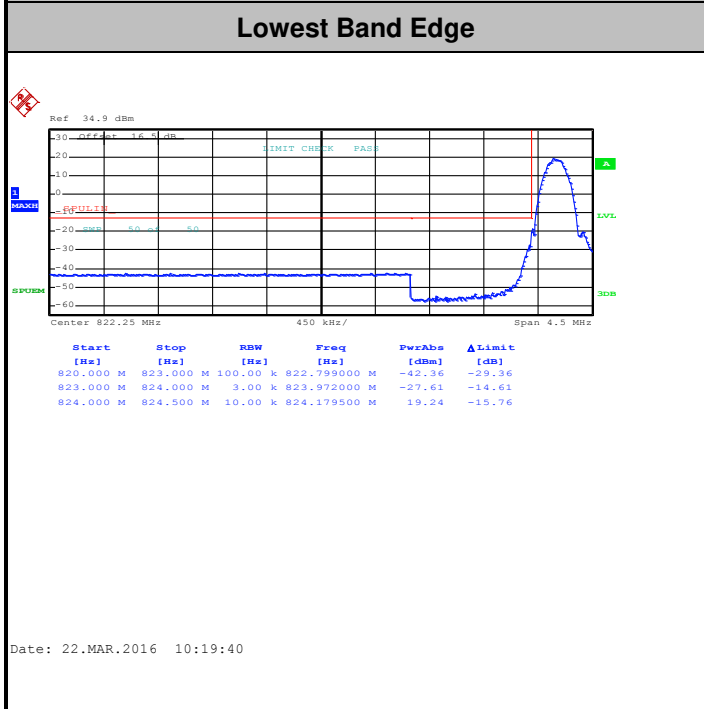


Conducted Band Edge

GSM850 (GPRS class 8)



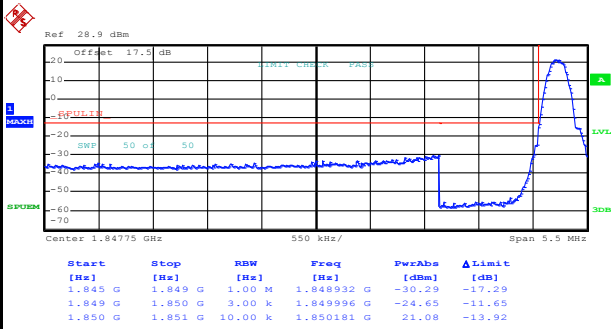
GSM850 (EDGE class 8)





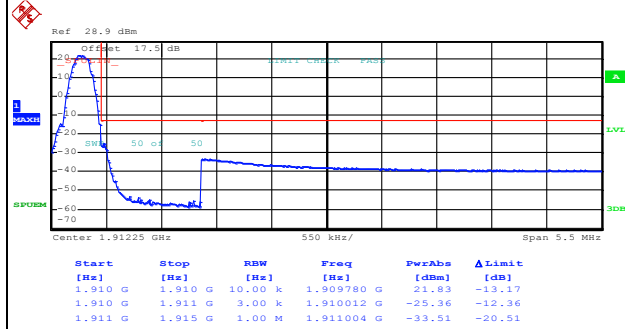
GSM1900 (GPRS class 8)

Lowest Band Edge



Date: 22.MAR.2016 10:51:33

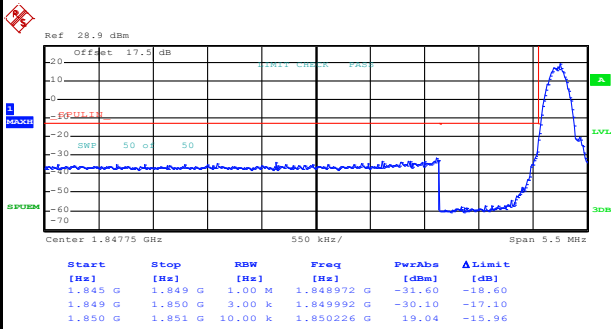
Highest Band Edge



Date: 22.MAR.2016 10:53:10

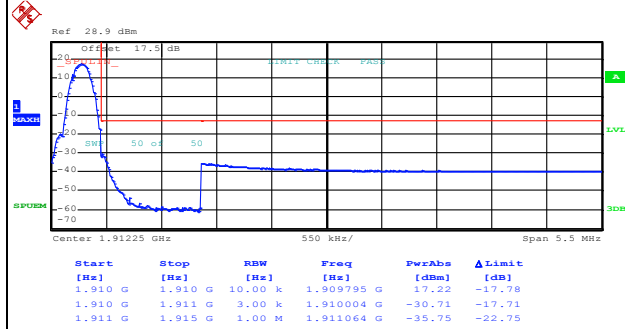
GSM1900 (EDGE class 8)

Lowest Band Edge



Date: 22.MAR.2016 11:11:11

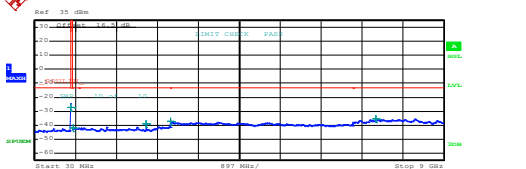
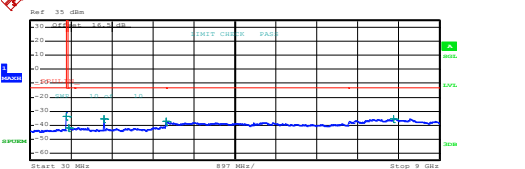
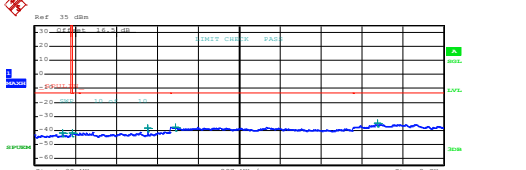
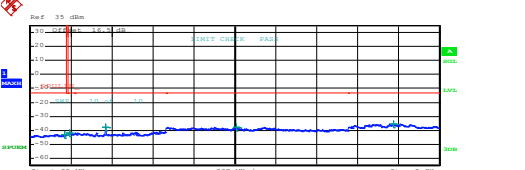
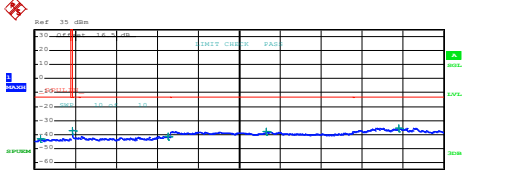
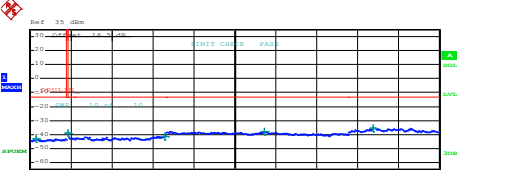
Highest Band Edge

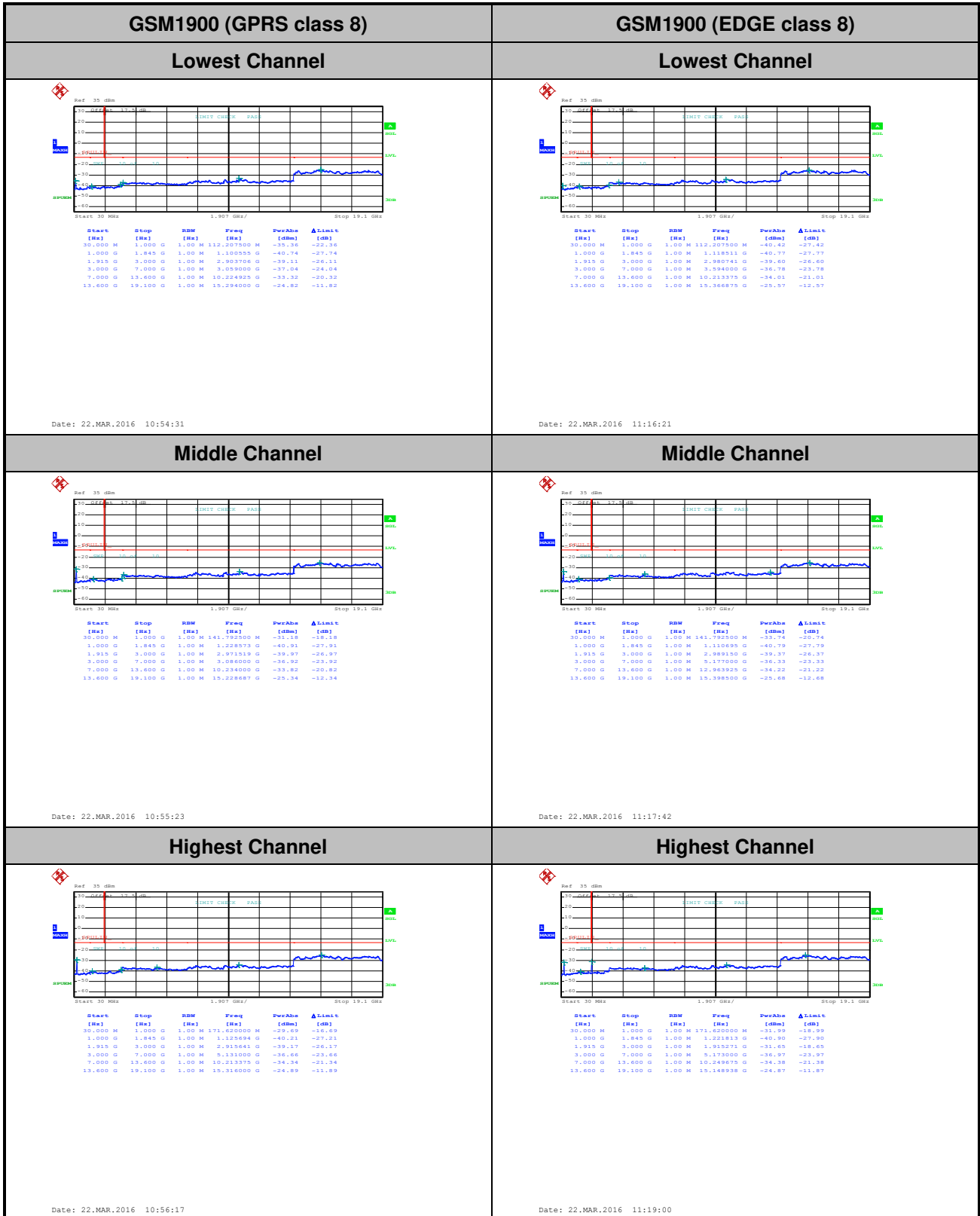


Date: 22.MAR.2016 11:12:47



Conducted Spurious Emission

GSM850 (GPRS class 8)	GSM850 (EDGE class 8)																																																																								
Lowest Channel	Lowest Channel																																																																								
 <table border="1" data-bbox="239 622 702 705"> <thead> <tr> <th>Start [Hz]</th> <th>Stop [Hz]</th> <th>RBW [Hz]</th> <th>Freq [Hz]</th> <th>PwrAbs [dBm]</th> <th>ΔLimit [dB]</th> </tr> </thead> <tbody> <tr> <td>30,000 M</td> <td>820,000 M</td> <td>1,000 M</td> <td>819,802500 M</td> <td>-37.01</td> <td>-14.01</td> </tr> <tr> <td>855,000 M</td> <td>1,000 G</td> <td>1,000 M</td> <td>868,992501 M</td> <td>-41.92</td> <td>-28.92</td> </tr> <tr> <td>1,000 G</td> <td>3,000 G</td> <td>1,000 M</td> <td>2,472500 G</td> <td>-38.97</td> <td>-25.97</td> </tr> <tr> <td>3,000 G</td> <td>7,000 G</td> <td>1,000 M</td> <td>3,009000 G</td> <td>-37.43</td> <td>-24.43</td> </tr> <tr> <td>7,000 G</td> <td>9,000 G</td> <td>1,000 M</td> <td>7,504000 G</td> <td>-35.39</td> <td>-22.39</td> </tr> </tbody> </table> <p>Date: 22.MAR.2016 10:01:31</p>	Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]	30,000 M	820,000 M	1,000 M	819,802500 M	-37.01	-14.01	855,000 M	1,000 G	1,000 M	868,992501 M	-41.92	-28.92	1,000 G	3,000 G	1,000 M	2,472500 G	-38.97	-25.97	3,000 G	7,000 G	1,000 M	3,009000 G	-37.43	-24.43	7,000 G	9,000 G	1,000 M	7,504000 G	-35.39	-22.39	 <table border="1" data-bbox="893 622 1356 705"> <thead> <tr> <th>Start [Hz]</th> <th>Stop [Hz]</th> <th>RBW [Hz]</th> <th>Freq [Hz]</th> <th>PwrAbs [dBm]</th> <th>ΔLimit [dB]</th> </tr> </thead> <tbody> <tr> <td>30,000 M</td> <td>820,000 M</td> <td>1,000 M</td> <td>819,802500 M</td> <td>-37.53</td> <td>-14.53</td> </tr> <tr> <td>855,000 M</td> <td>1,000 G</td> <td>1,000 M</td> <td>869,246251 M</td> <td>-42.04</td> <td>-29.04</td> </tr> <tr> <td>1,000 G</td> <td>3,000 G</td> <td>1,000 M</td> <td>3,048500 G</td> <td>-35.42</td> <td>-22.42</td> </tr> <tr> <td>3,000 G</td> <td>7,000 G</td> <td>1,000 M</td> <td>3,035000 G</td> <td>-37.40</td> <td>-24.40</td> </tr> <tr> <td>7,000 G</td> <td>9,000 G</td> <td>1,000 M</td> <td>8,004000 G</td> <td>-35.24</td> <td>-22.24</td> </tr> </tbody> </table> <p>Date: 22.MAR.2016 10:27:14</p>	Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]	30,000 M	820,000 M	1,000 M	819,802500 M	-37.53	-14.53	855,000 M	1,000 G	1,000 M	869,246251 M	-42.04	-29.04	1,000 G	3,000 G	1,000 M	3,048500 G	-35.42	-22.42	3,000 G	7,000 G	1,000 M	3,035000 G	-37.40	-24.40	7,000 G	9,000 G	1,000 M	8,004000 G	-35.24	-22.24
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Frequency Stability

Test Conditions	Middle Channel	GSM850	GSM850	Limit
		(GPRS class 8)	(EDGE class 8)	2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		Result
50	Normal Voltage	0.0036	0.0060	PASS
40	Normal Voltage	0.0048	0.0024	
30	Normal Voltage	0.0012	0.0060	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0024	0.0048	
0	Normal Voltage	0.0012	0.0012	
-10	Normal Voltage	0.0036	0.0024	
-20	Normal Voltage	0.0072	0.0036	
-30	Normal Voltage	0.0024	0.0072	
20	Maximum Voltage	0.0036	0.0012	
20	Normal Voltage	0.0012	0.0048	
20	Battery End Point	0.0024	0.0072	

Note:

1. Normal Voltage = 6.0V. ; Battery End Point (BEP) = 4.92 V. ; Maximum Voltage =7.0 V
2. The frequency fundamental emissions stay within the authorized frequency block.



Test Conditions	Middle Channel	GSM1900	GSM1900	Limit
		(GPRS class 8)	(EDGE class 8)	Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		Result
50	Normal Voltage	0.0186	0.0021	PASS
40	Normal Voltage	0.0165	0.0016	
30	Normal Voltage	0.0154	0.0005	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0144	0.0037	
0	Normal Voltage	0.0149	0.0011	
-10	Normal Voltage	0.0165	0.0027	
-20	Normal Voltage	0.0176	0.0032	
-30	Normal Voltage	0.0170	0.0043	
20	Maximum Voltage	0.0138	0.0032	
20	Normal Voltage	0.0144	0.0005	
20	Battery End Point	0.0165	0.0043	

Note:

- 1. Normal Voltage = 6.0V. ; Battery End Point (BEP) = 4.92 V. ; Maximum Voltage =7.0 V
- 2. The frequency fundamental emissions stay within the authorized frequency block.