



Appendix C

Occupied Bandwidth According to FCC part 2.1049 & Part 27 Subpart C&L



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Result Table

NOTE: All relevant operation modes have been tested, and the full RB data is included in this report.

Table 1 Measurement Results CDMA&EVDO

Test Mode	RF Channel	Occupied Bandwidth [MHz]	Verdict
TM1	B	1.28	Pass
	M	1.28	Pass
	T	1.28	Pass
TM3	B	1.28	Pass
	M	1.28	Pass
	T	1.28	Pass
Subtype 0	B	1.27	Pass
	M	1.28	Pass
	T	1.27	Pass
Subtype 2	B	1.29	Pass
	M	1.27	Pass
	T	1.29	Pass

Table 2 Measurement Results (LTE) BAND 4

Test Mode	Carrier Conf.	RF Ch.	Occupied Bandwidth [MHz]	Verdict
TM4	5 MHz	B	4.47	Pass
		M	4.49	Pass
		T	4.49	Pass
	10 MHz	B	8.99	Pass
		M	8.99	Pass
		T	8.97	Pass
TM5	5 MHz	B	4.49	Pass
		M	4.49	Pass
		T	4.49	Pass
	10 MHz	B	8.97	Pass
		M	8.97	Pass
		T	8.94	Pass



Table 3 Measurement Results (LTE) Band 12

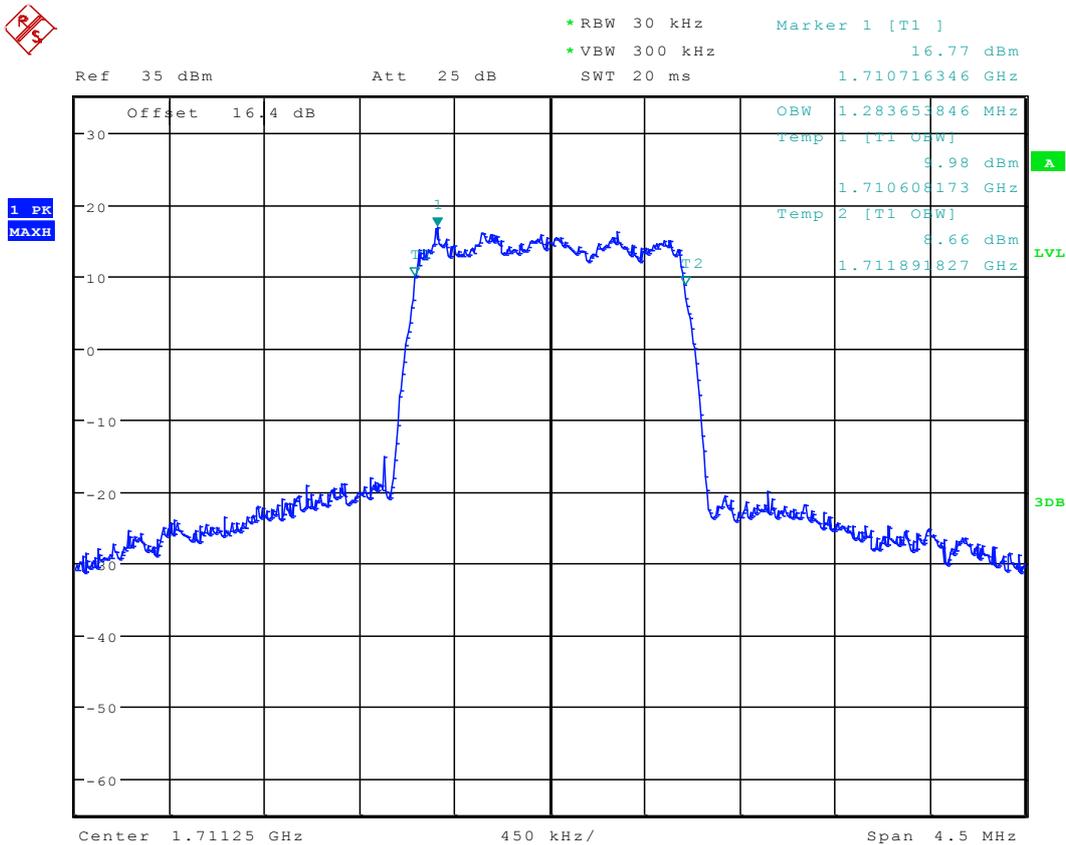
Test Mode	Carrier Conf.	RF Ch.	Occupied Bandwidth [MHz]	Verdict
TM4	1.4 MHz	B	1.09	Pass
		M	1.09	Pass
		T	1.09	Pass
	3 MHz	B	2.70	Pass
		M	2.70	Pass
		T	2.70	Pass
	5 MHz	B	4.49	Pass
		M	4.49	Pass
		T	4.49	Pass
	10 MHz	B	8.99	Pass
		M	8.97	Pass
		T	8.94	Pass
TM5	1.4 MHz	B	1.09	Pass
		M	1.10	Pass
		T	1.10	Pass
	3 MHz	B	2.69	Pass
		M	2.68	Pass
		T	2.69	Pass
	5 MHz	B	4.49	Pass
		M	4.47	Pass
		T	4.49	Pass
	10 MHz	B	8.97	Pass
		M	8.94	Pass
		T	8.94	Pass



1 For CDMA 1700

1.1 Test Mode = TM1

1.1.1.1 Channel = B



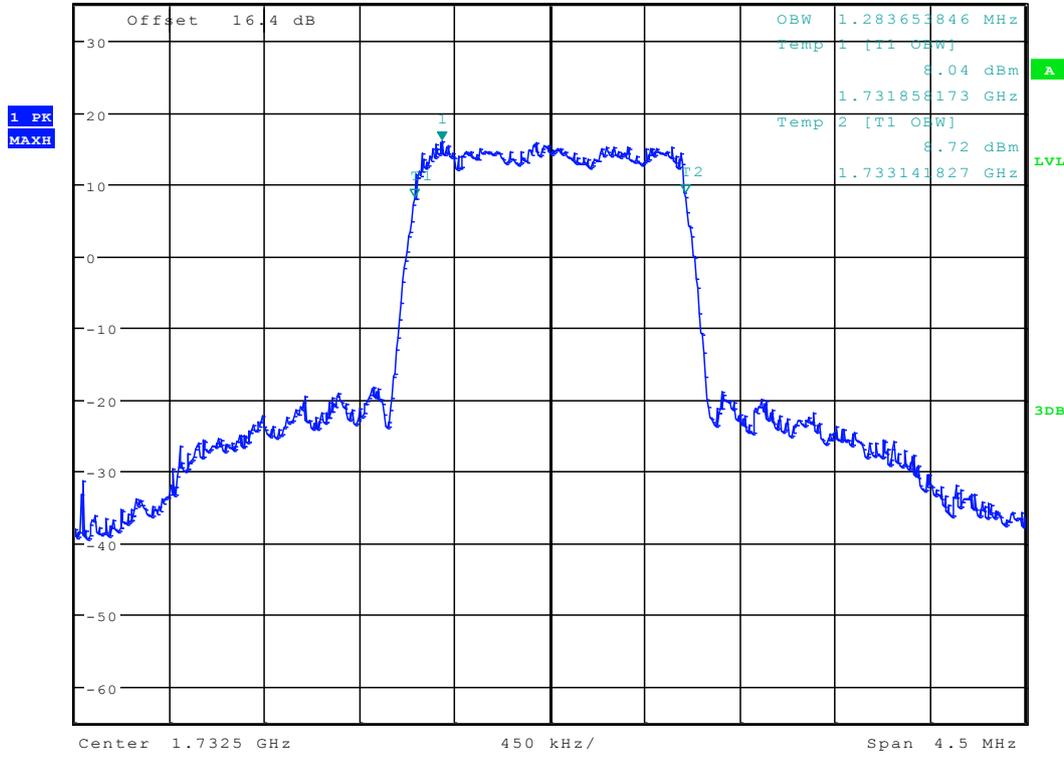
Date: 14.APR.2012 00:42:19



1.1.1.2 Channel = M



*RBW 30 kHz Marker 1 [T1]
*VBW 300 kHz 15.95 dBm
Ref 35 dBm Att 25 dB SWT 20 ms 1.731987981 GHz



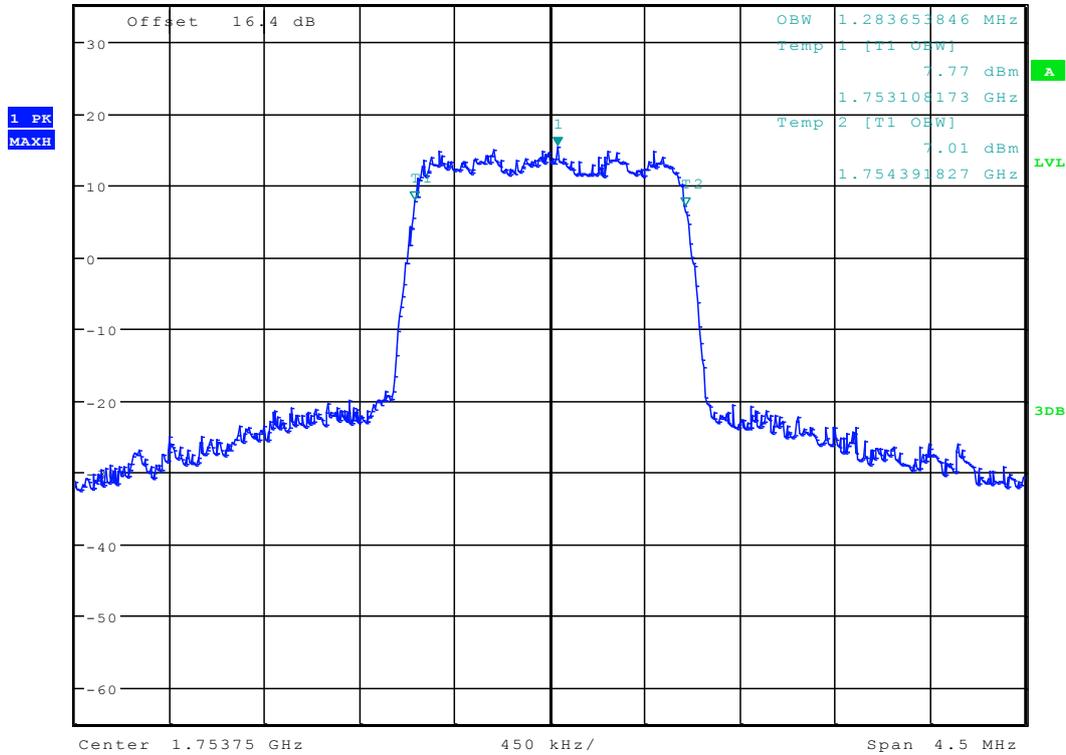
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1.1.1.3 Channel = T



*RBW 30 kHz Marker 1 [T1]
*VBW 300 kHz 15.37 dBm
Ref 35 dBm Att 25 dB SWT 20 ms 1.753786058 GHz

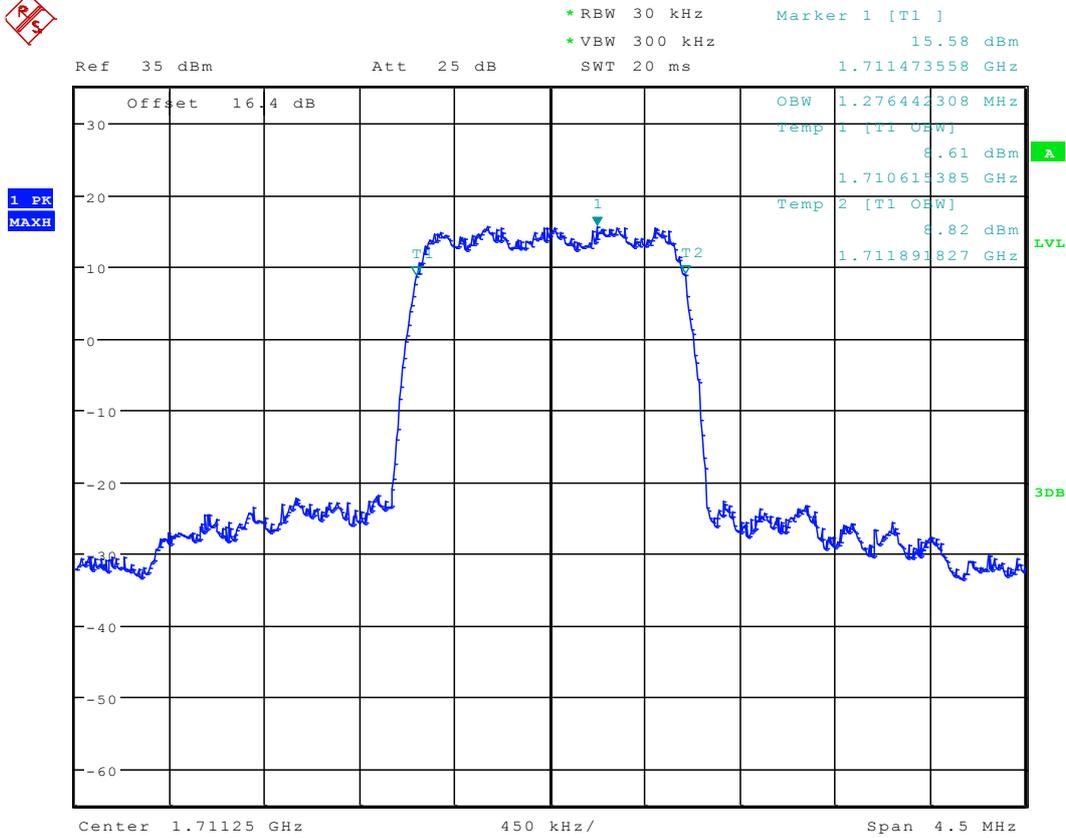


Date: 14.APR.2012 00:42:47



1.2 Test Mode = TM3

1.2.1.1 Channel = B



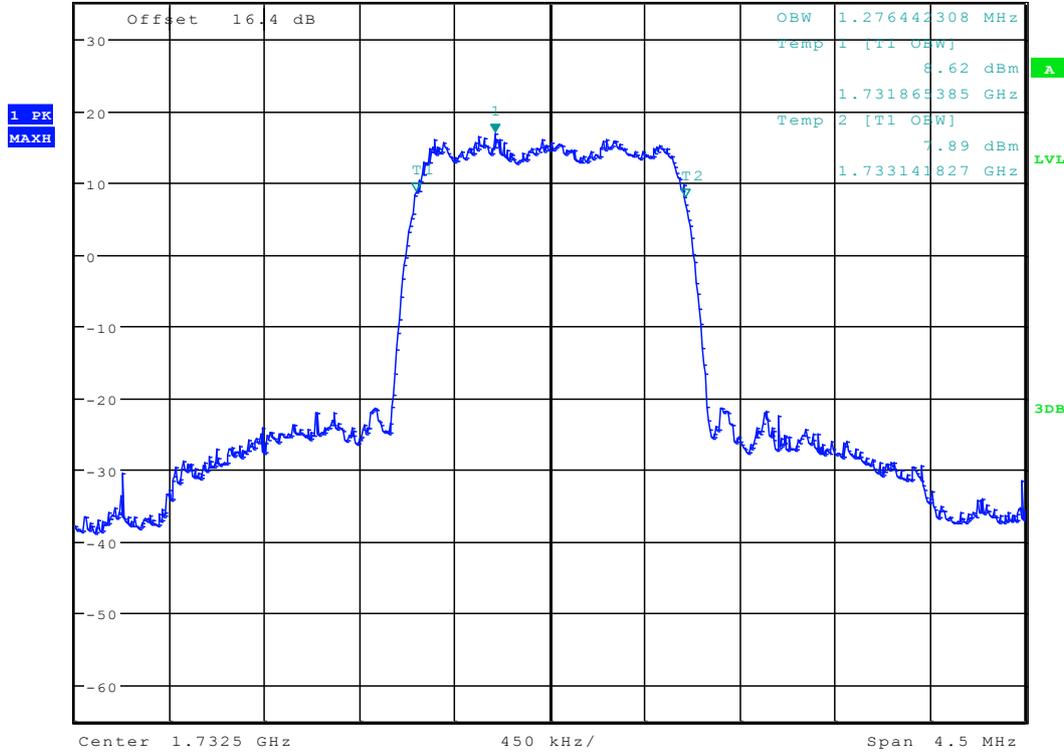
Date: 14.APR.2012 00:43:02



1.2.1.2 Channel = M



*RBW 30 kHz Marker 1 [T1]
 *VBW 300 kHz 16.81 dBm
 Ref 35 dBm Att 25 dB SWT 20 ms 1.732240385 GHz



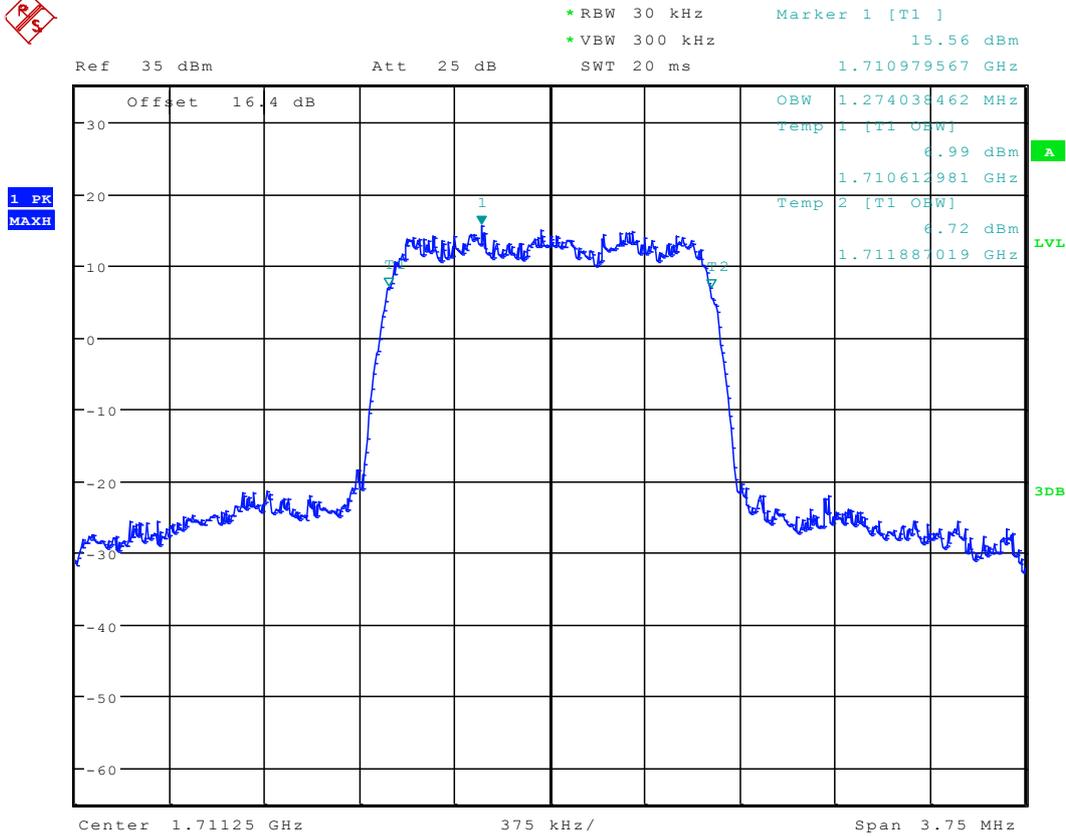
Date: 14.APR.2012 00:43:16



2 For EVDO 1700

2.1 Test Mode = Subtype 0

2.1.1.1 Channel = B



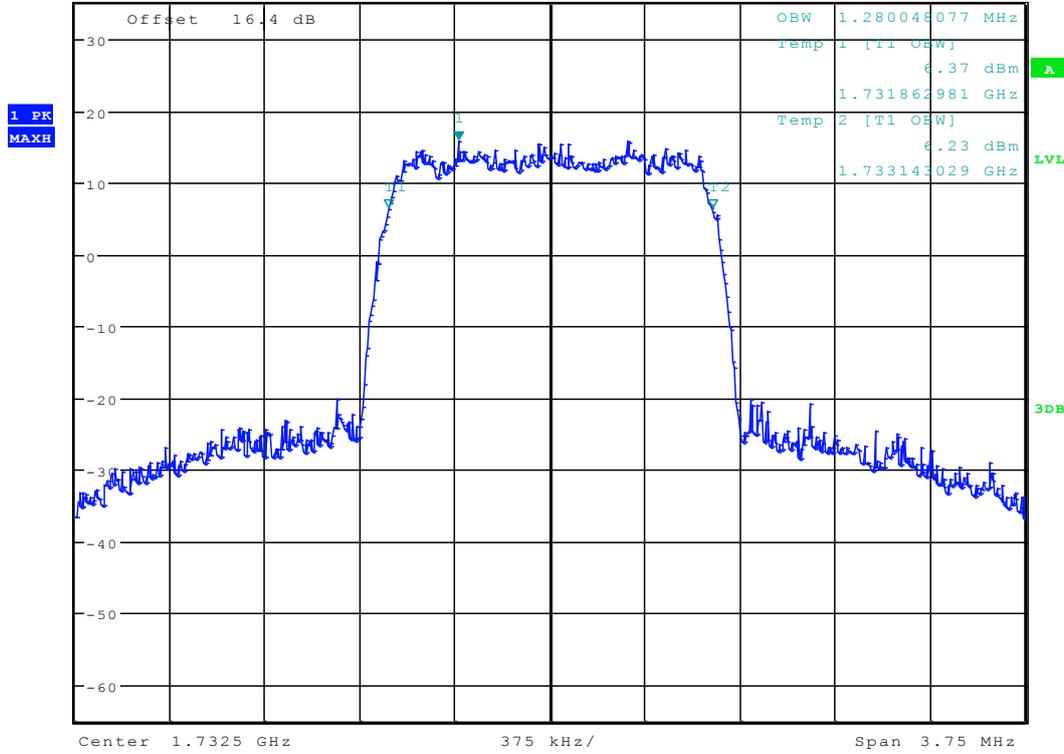
Date: 14.APR.2012 00:48:54



2.1.1.2 Channel = M



*RBW 30 kHz Marker 1 [T1]
 *VBW 300 kHz 15.82 dBm
 Ref 35 dBm Att 25 dB SWT 20 ms 1.732139423 GHz



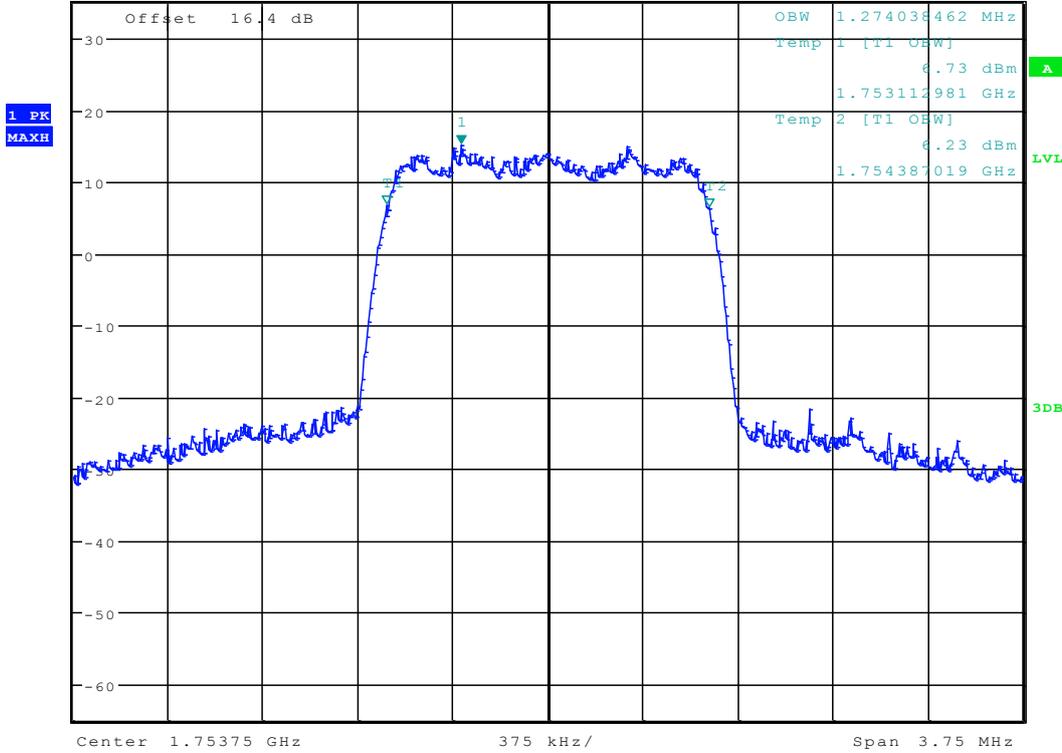
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2.1.1.3 Channel = T



*RBW 30 kHz Marker 1 [T1]
*VBW 300 kHz 15.18 dBm
Ref 35 dBm Att 25 dB SWT 20 ms 1.753407452 GHz

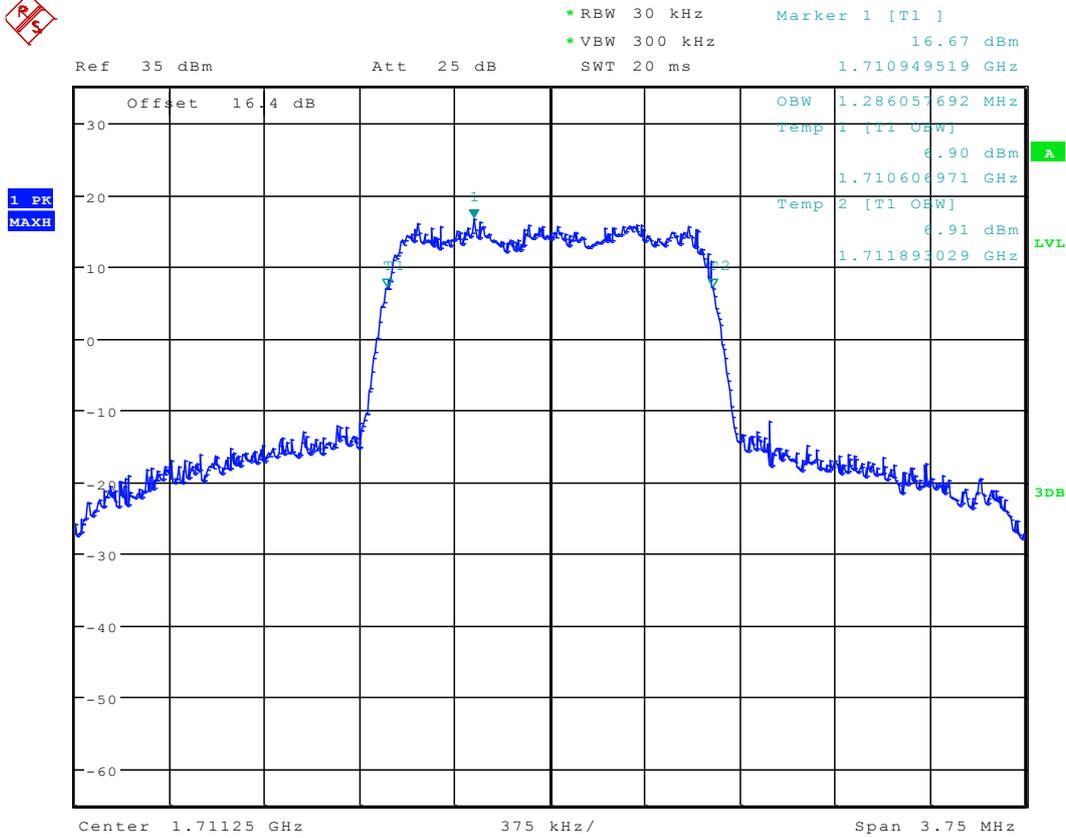


Date: 14.APR.2012 00:49:22



2.2 Test Mode = Subtype 2

2.2.1.1 Channel = B



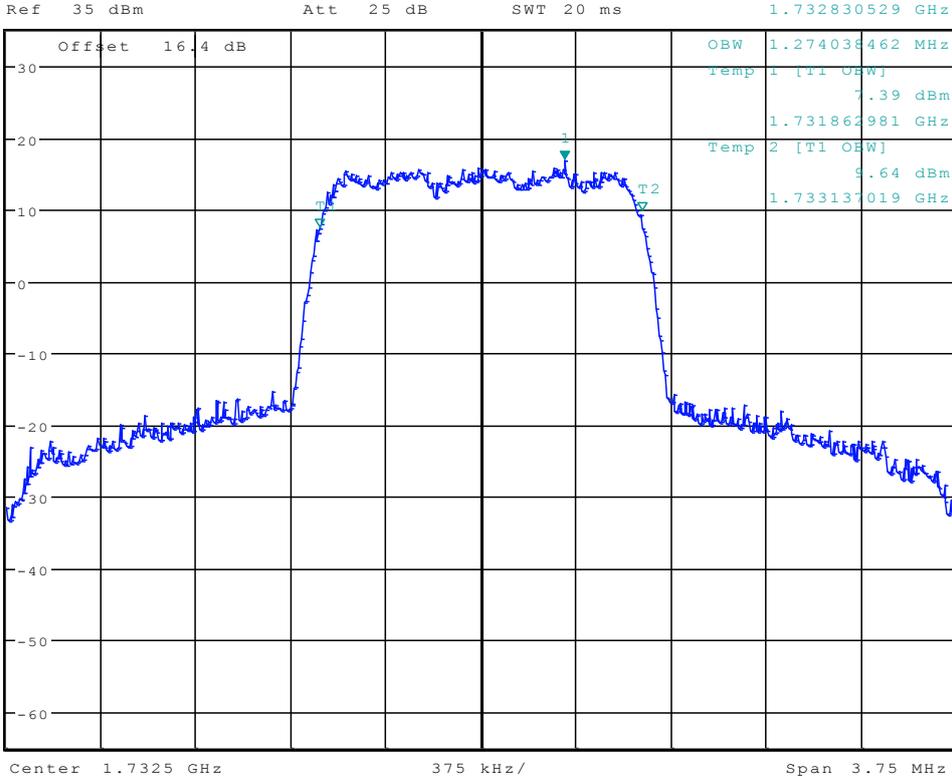
Date: 14.APR.2012 00:54:18



2.2.1.2 Channel = M



*RBW 30 kHz Marker 1 [T1]
*VBW 300 kHz 16.75 dBm
SWT 20 ms 1.732830529 GHz

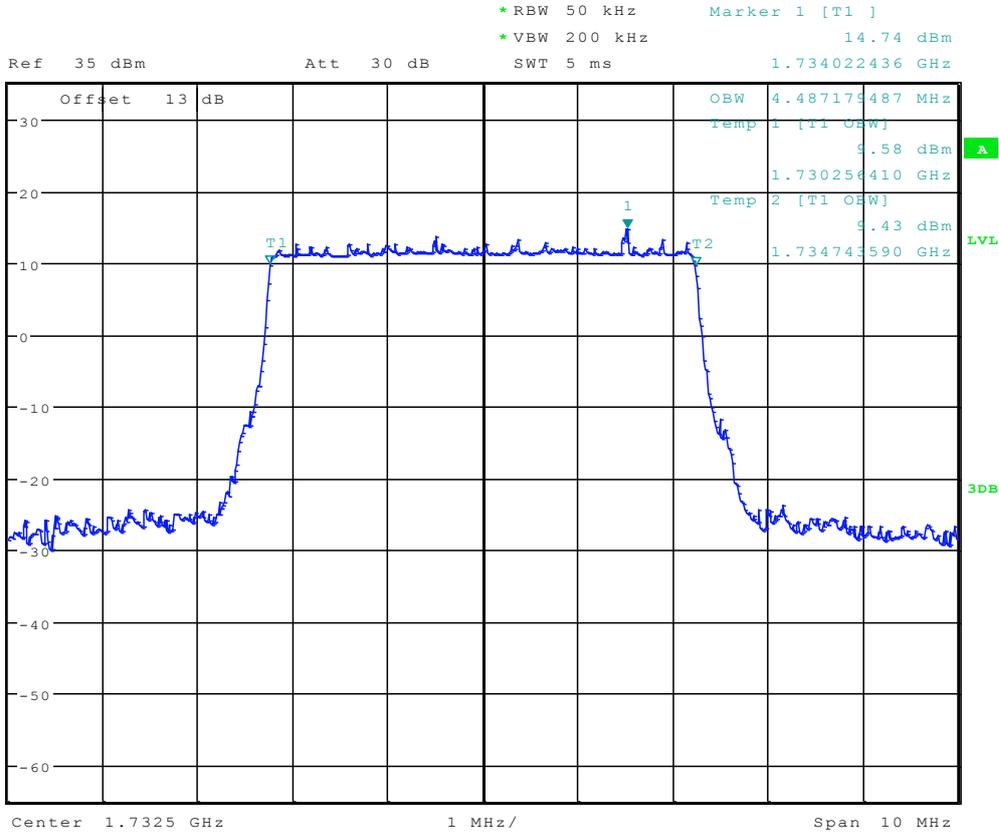


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3.1.1.2 Channel =M

3.1.1.2.1 QPSK/full RBs

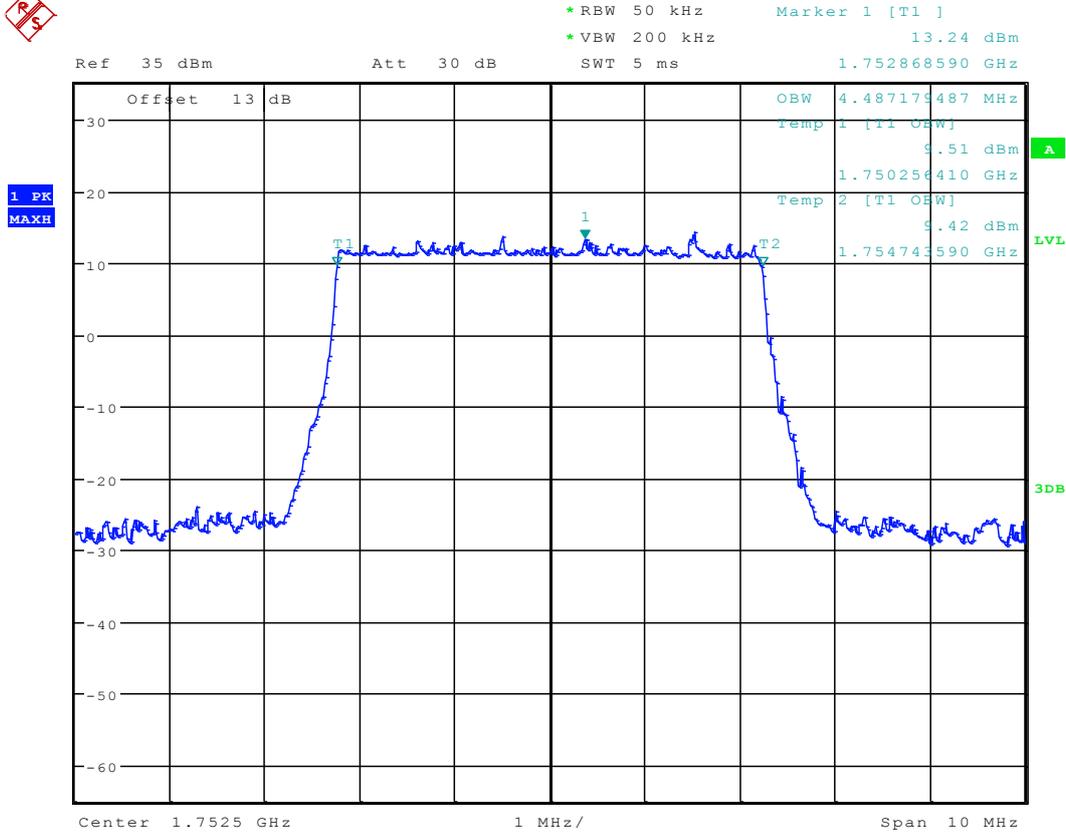


Date: 19.APR.2012 11:00:33



3.1.1.3 Channel =T

3.1.1.3.1 QPSK/full RBs



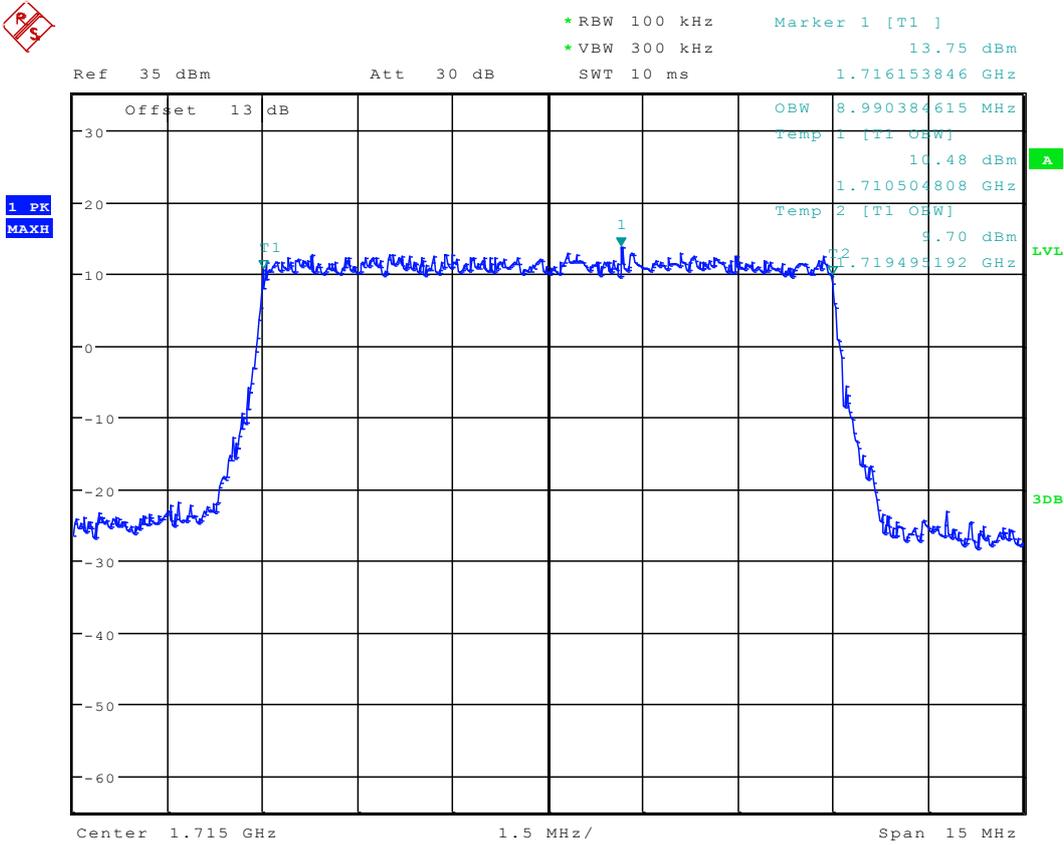
Date: 19.APR.2012 10:57:11



3.1.2 Channel Bandwidth = Highest (10 MHz)

3.1.2.1 Channel = B

3.1.2.1.1 QPSK/full RBs

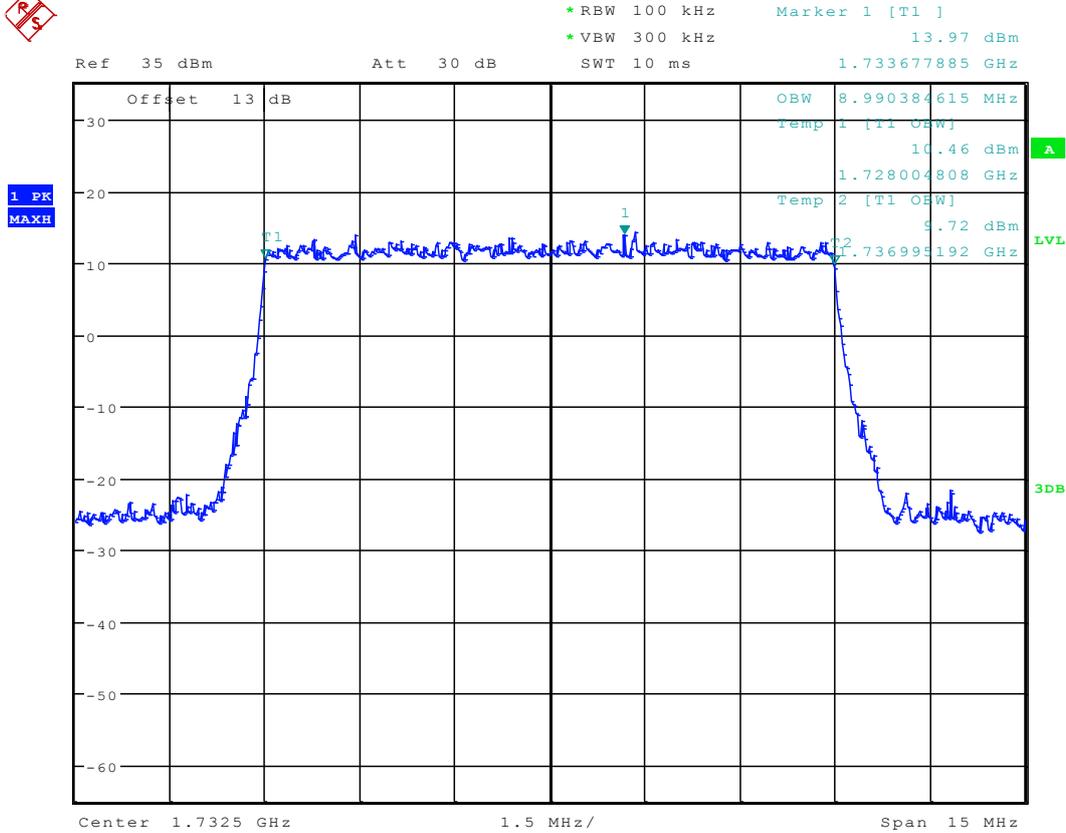


Date: 19.APR.2012 10:50:39



3.1.2.2 Channel =M

3.1.2.2.1 QPSK/full RBs

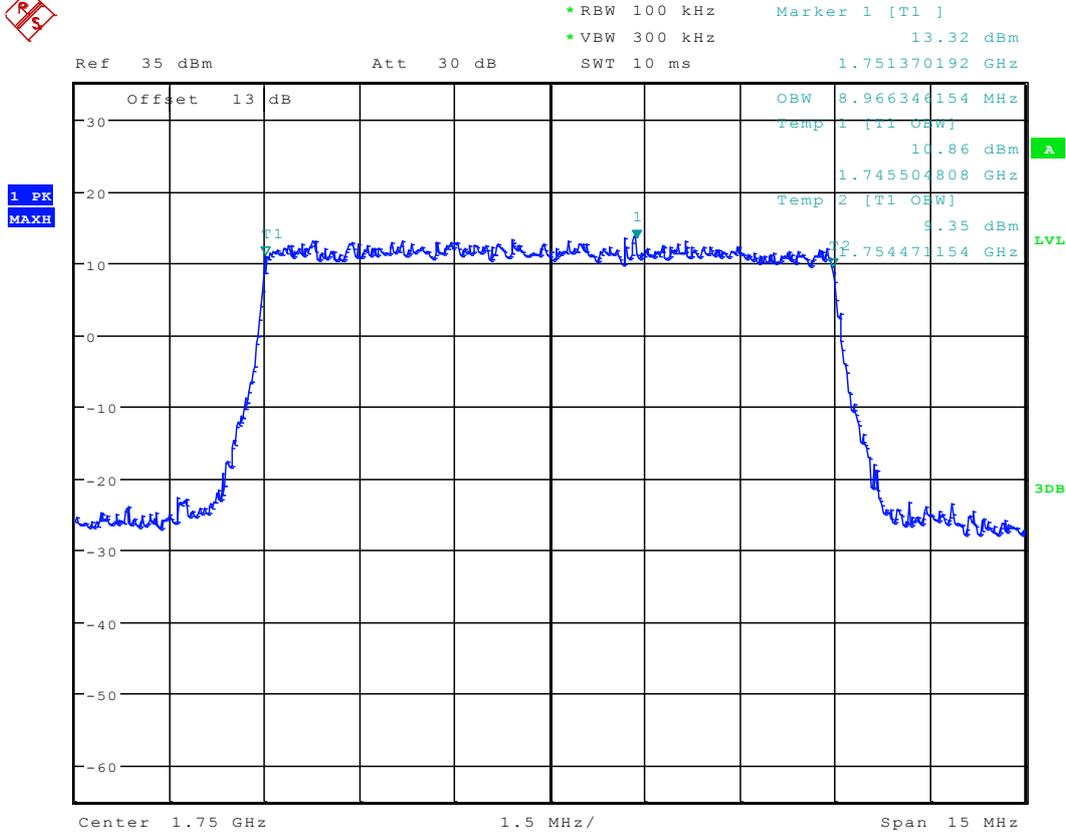


Date: 19.APR.2012 10:46:31



3.1.2.3 Channel =T

3.1.2.3.1 QPSK/full RBs



Date: 19.APR.2012 10:54:21

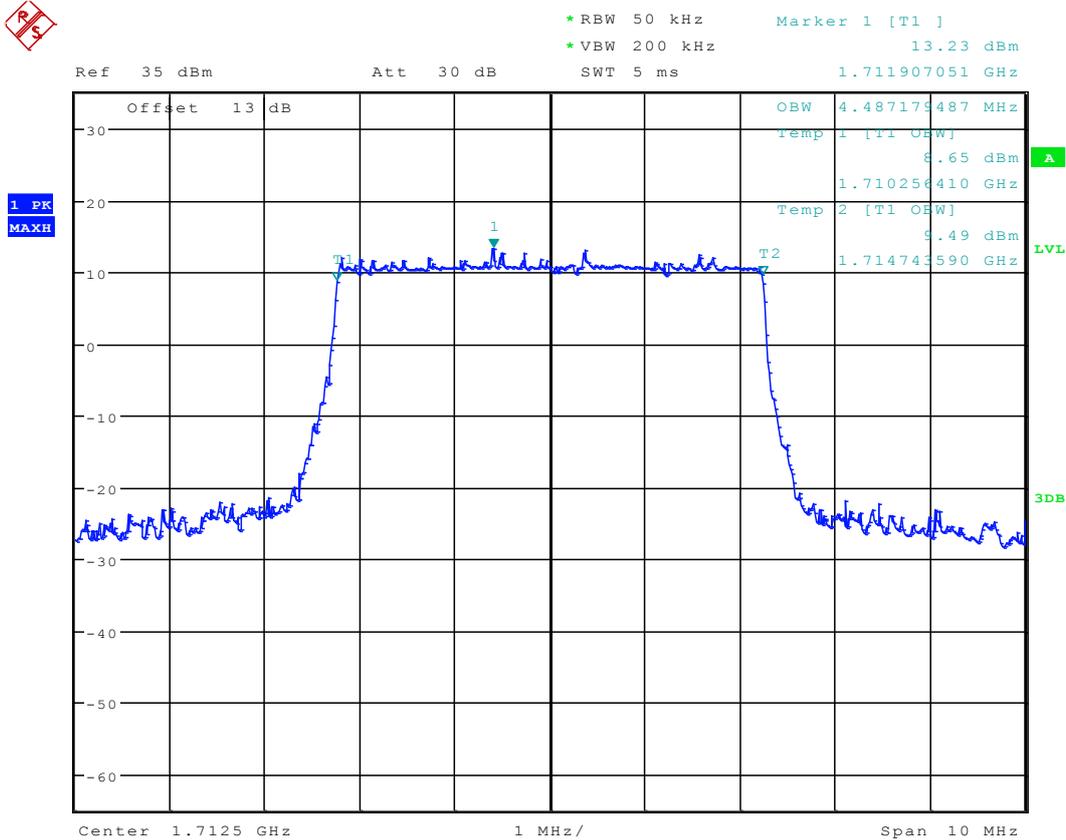


3.2 Test Mode=TM5

3.2.1 Channel Bandwidth = Lowest (5 MHz)

3.2.1.1 Channel = B

3.2.1.1.1 16QAM /full RBs



Date: 19.APR.2012 11:01:50

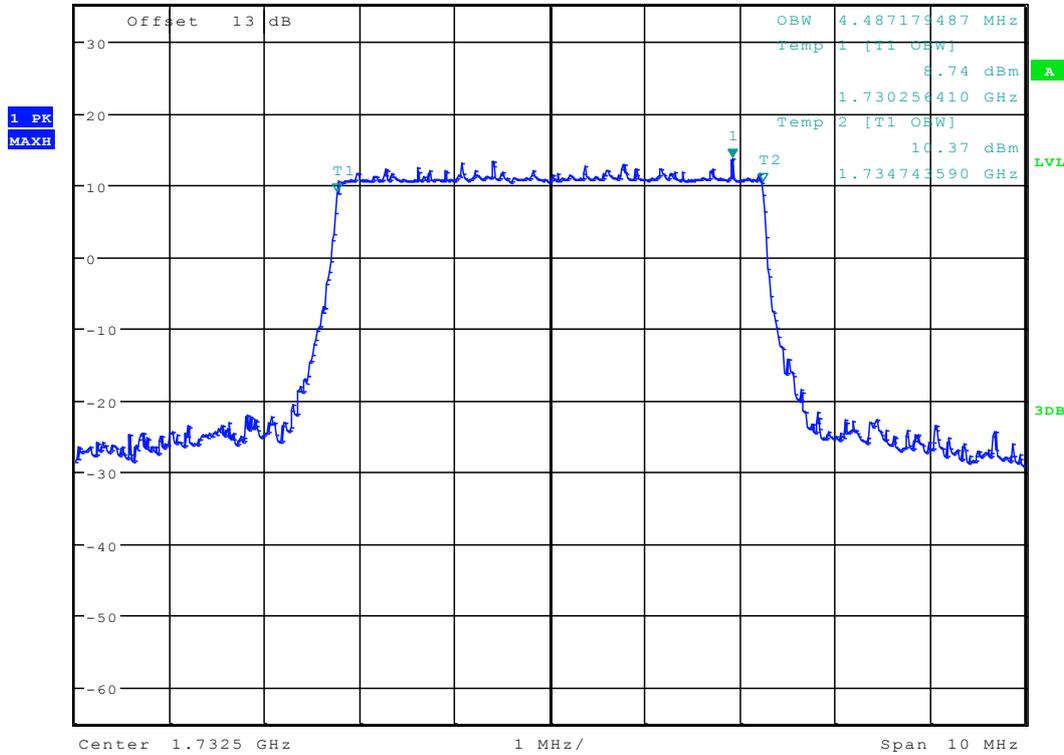


3.2.1.2 Channel =M

3.2.1.2.1 16QAM /full RBs



*RBW 50 kHz Marker 1 [T1]
 *VBW 200 kHz 13.64 dBm
 Ref 35 dBm Att 30 dB SWT 5 ms 1.734423077 GHz

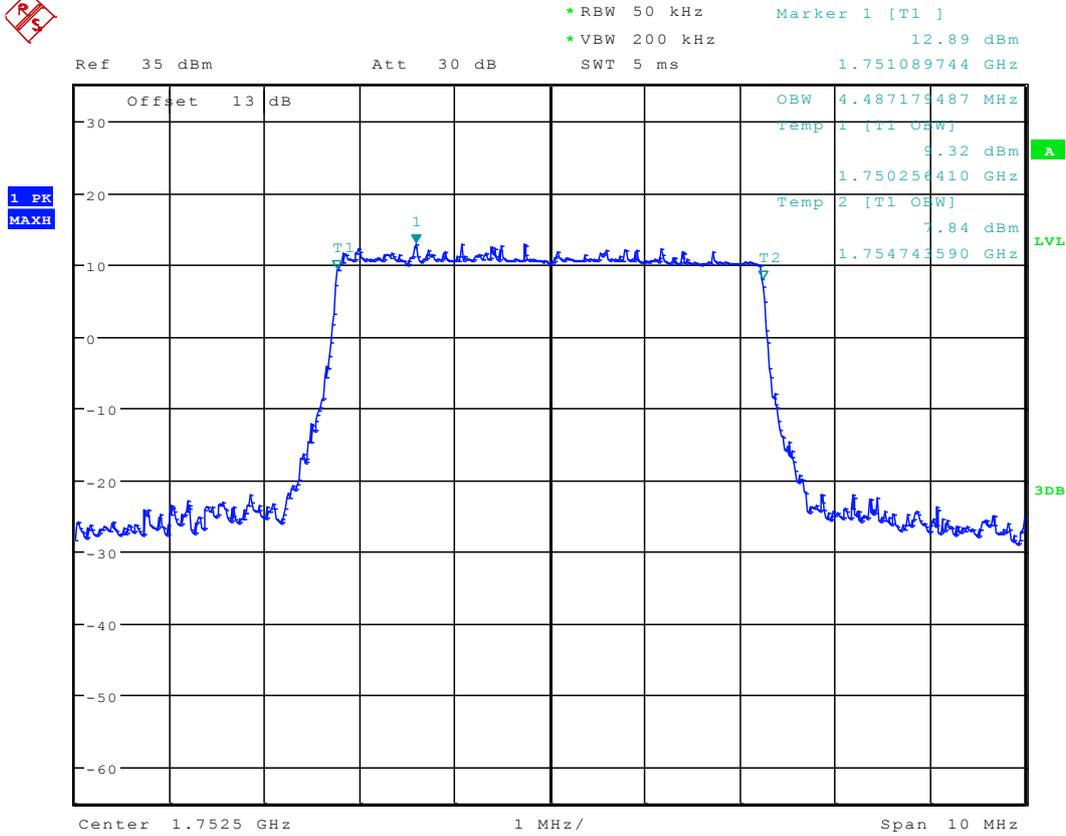


Date: 19.APR.2012 11:00:09



3.2.1.3 Channel =T

3.2.1.3.1 16QAM /full RBs



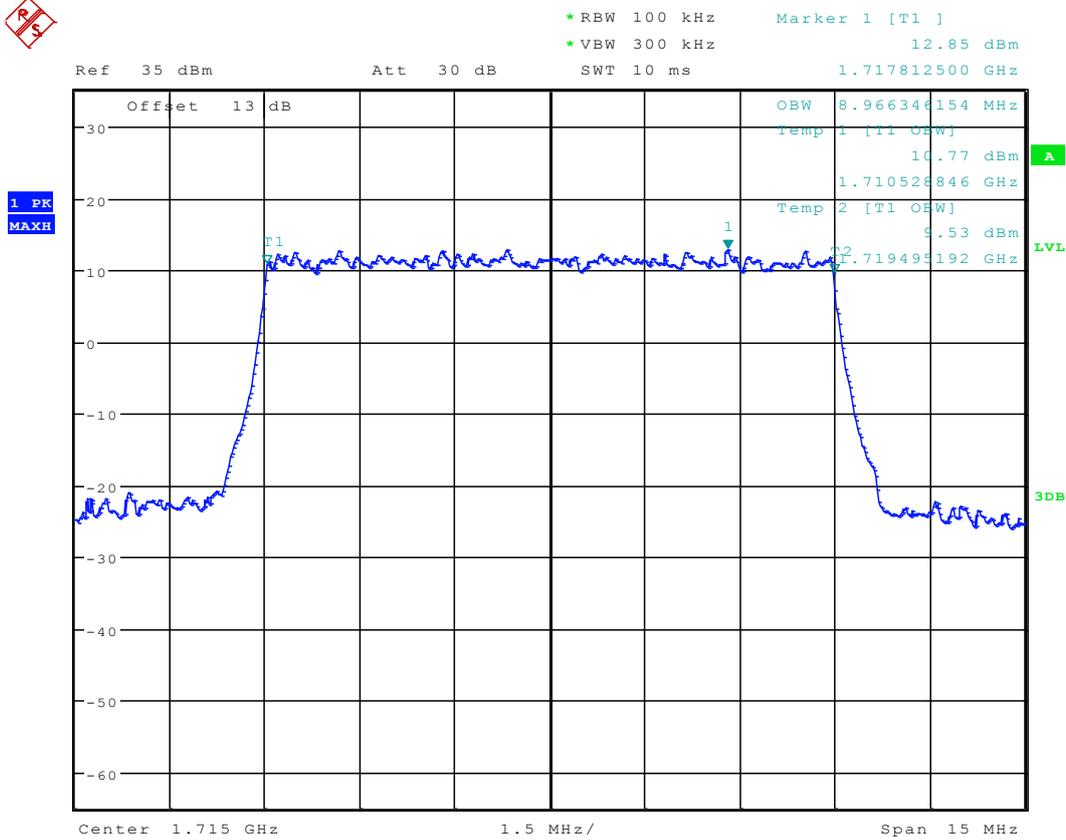
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3.2.2 Channel Bandwidth = Highest (10 MHz)

3.2.2.1 Channel = B

3.2.2.1.1 16QAM /full RBs

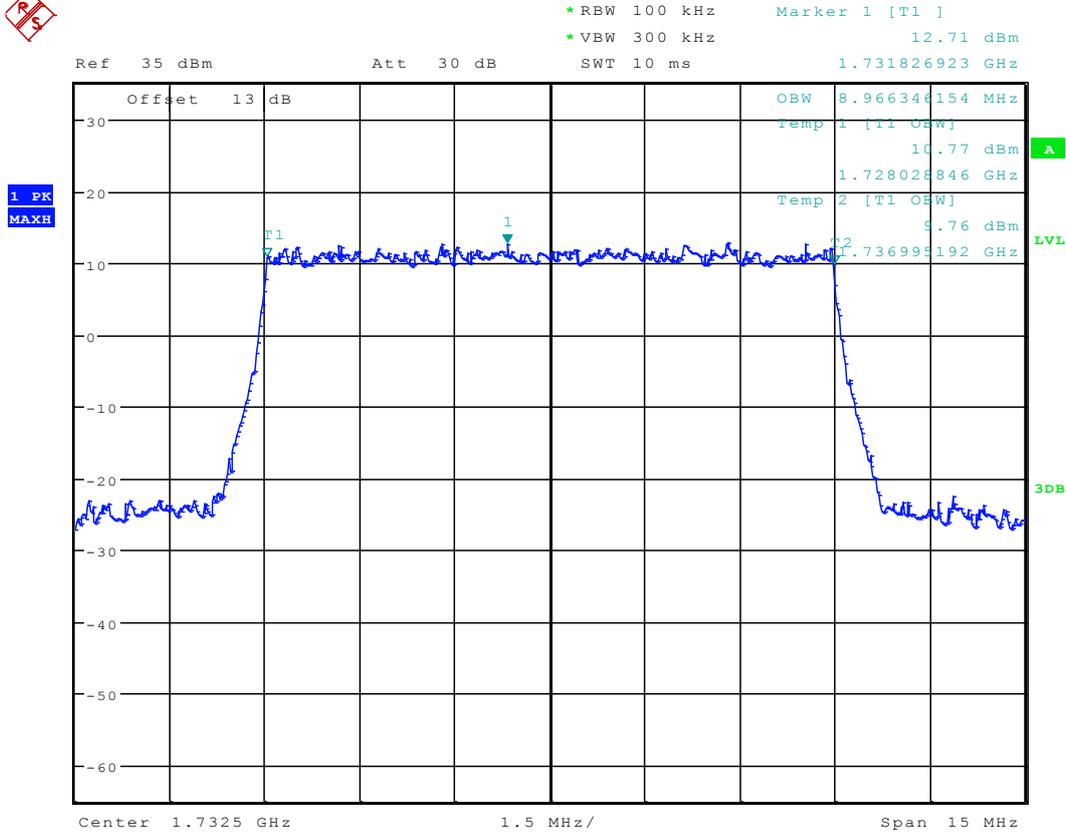


Date: 19.APR.2012 10:50:00



3.2.2.2 Channel =M

3.2.2.2.1 16QAM /full RBs



Date: 19.APR.2012 10:47:07

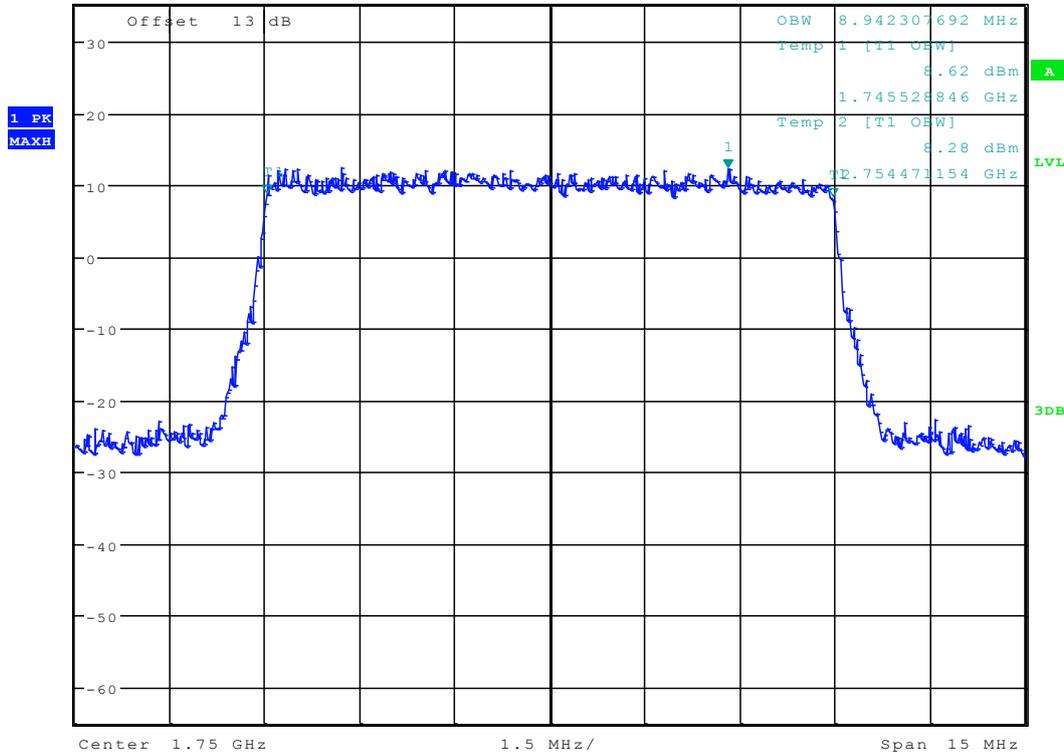


3.2.2.3 Channel =T

3.2.2.3.1 16QAM /full RBs



*RBW 100 kHz Marker 1 [T1]
 *VBW 300 kHz 12.27 dBm
 Ref 35 dBm Att 30 dB SWT 10 ms 1.752812500 GHz



Date: 19.APR.2012 10:54:46



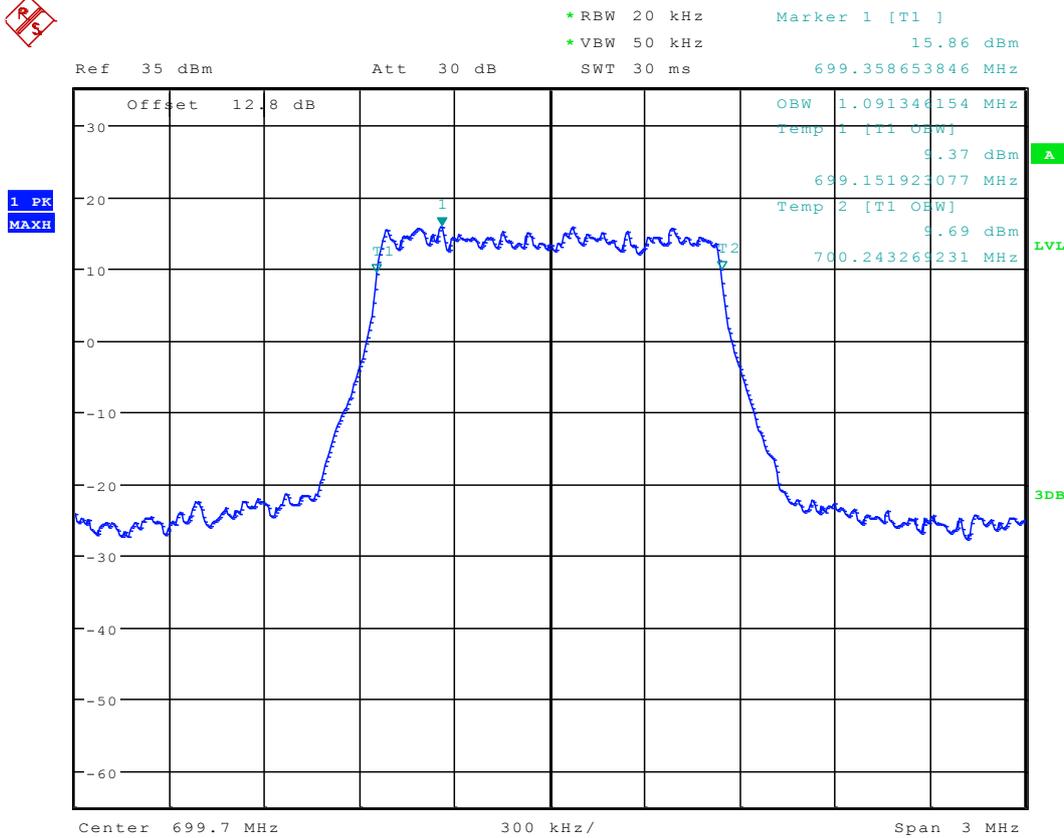
4 For Band 12

4.1 Test Mode=TM4

4.1.1 Channel Bandwidth = Lowest (1.4 MHz)

4.1.1.1 Channel = B

4.1.1.1.1 QPSK/full RBs



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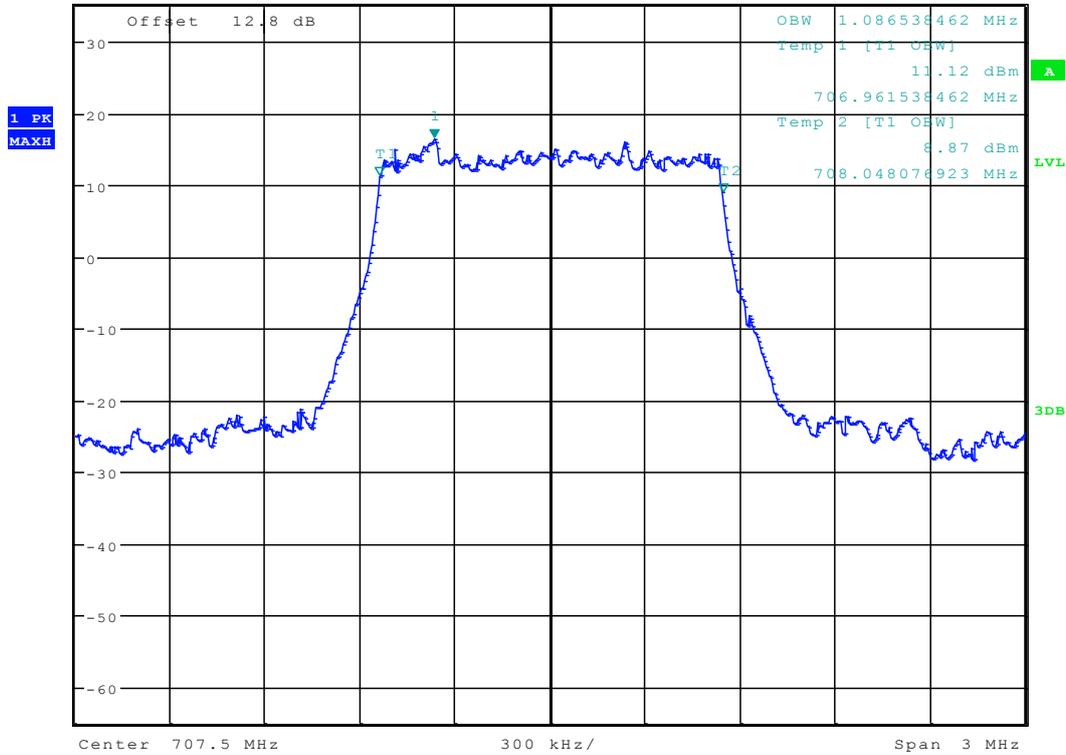


4.1.1.2 Channel =M

4.1.1.2.1 QPSK/full RBs



*RBW 20 kHz Marker 1 [T1]
 *VBW 50 kHz 16.44 dBm
 Ref 35 dBm Att 30 dB SWT 30 ms 707.134615385 MHz

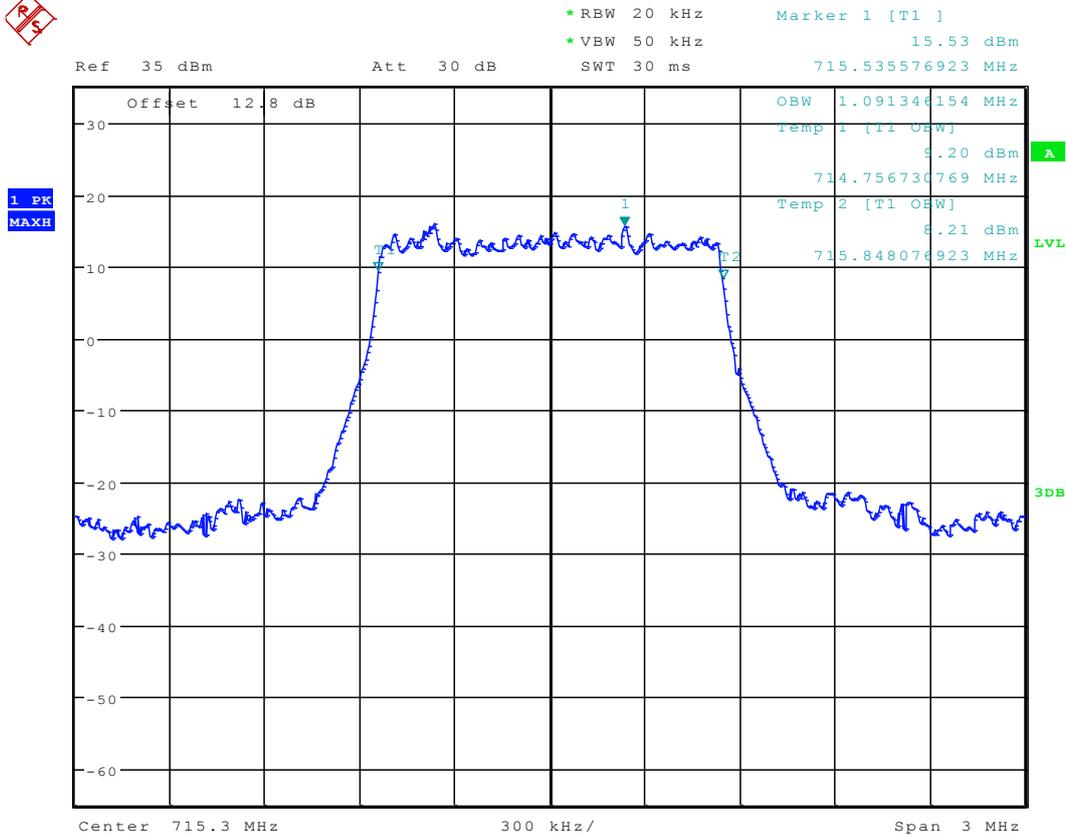


Date: 18.APR.2012 16:02:09



4.1.1.3 Channel =T

4.1.1.3.1 QPSK/full RBs



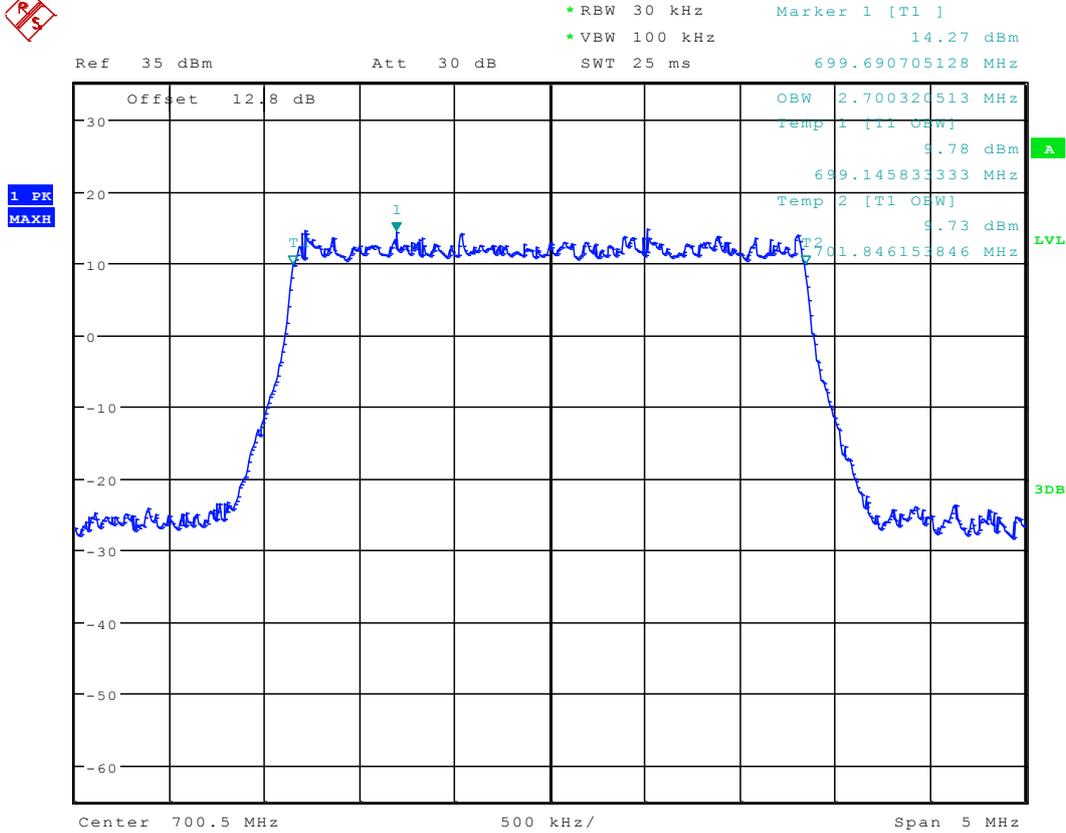
Date: 18.APR.2012 17:07:42



4.1.2 Channel Bandwidth = 3 MHz

4.1.2.1 Channel = B

4.1.2.1.1 QPSK/full RBs

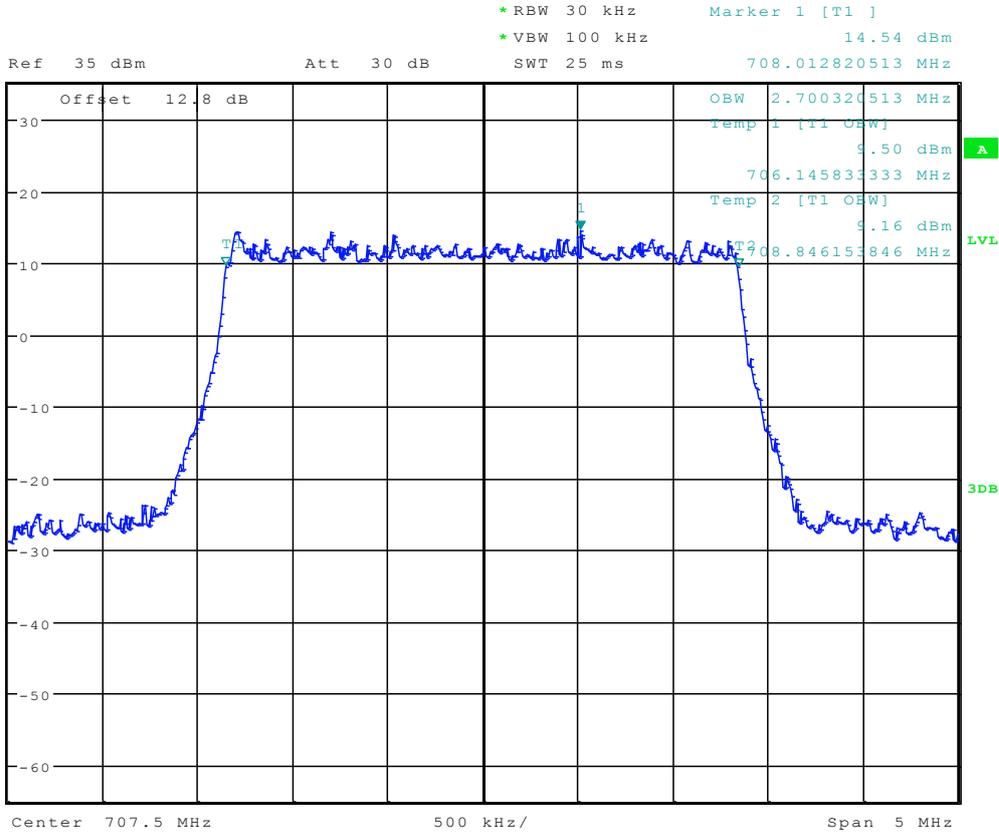


Date: 18.APR.2012 16:06:28



4.1.2.2 Channel =M

4.1.2.2.1 QPSK/full RBs

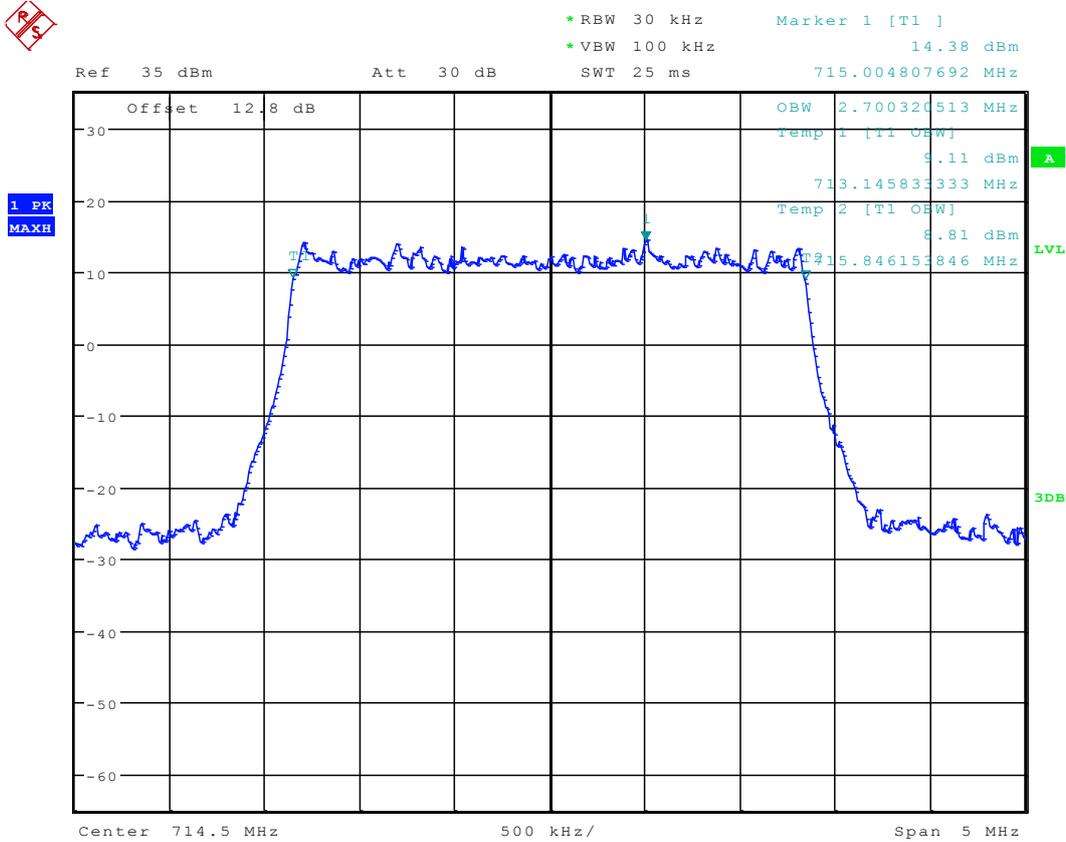


Date: 18.APR.2012 16:23:45



4.1.2.3 Channel =T

4.1.2.3.1 QPSK/full RBs



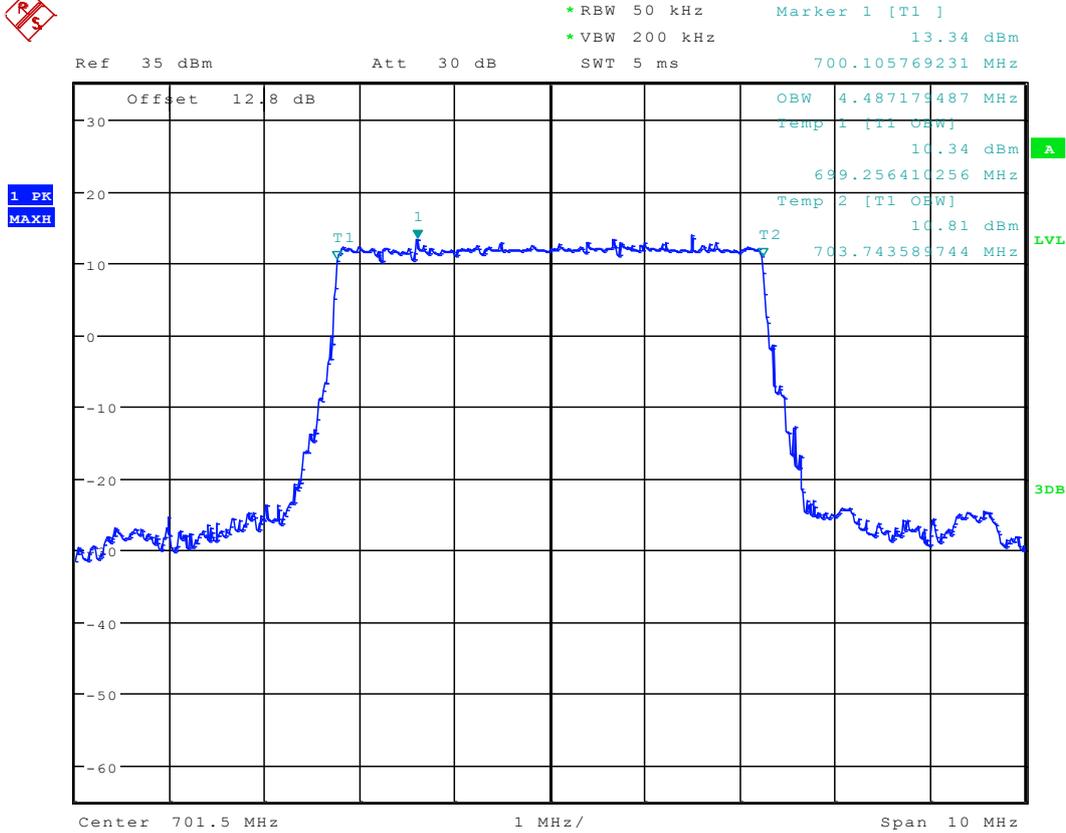
Date: 18.APR.2012 17:03:47



4.1.3 Channel Bandwidth = 5 MHz

4.1.3.1 Channel = B

4.1.3.1.1 QPSK/full RBs

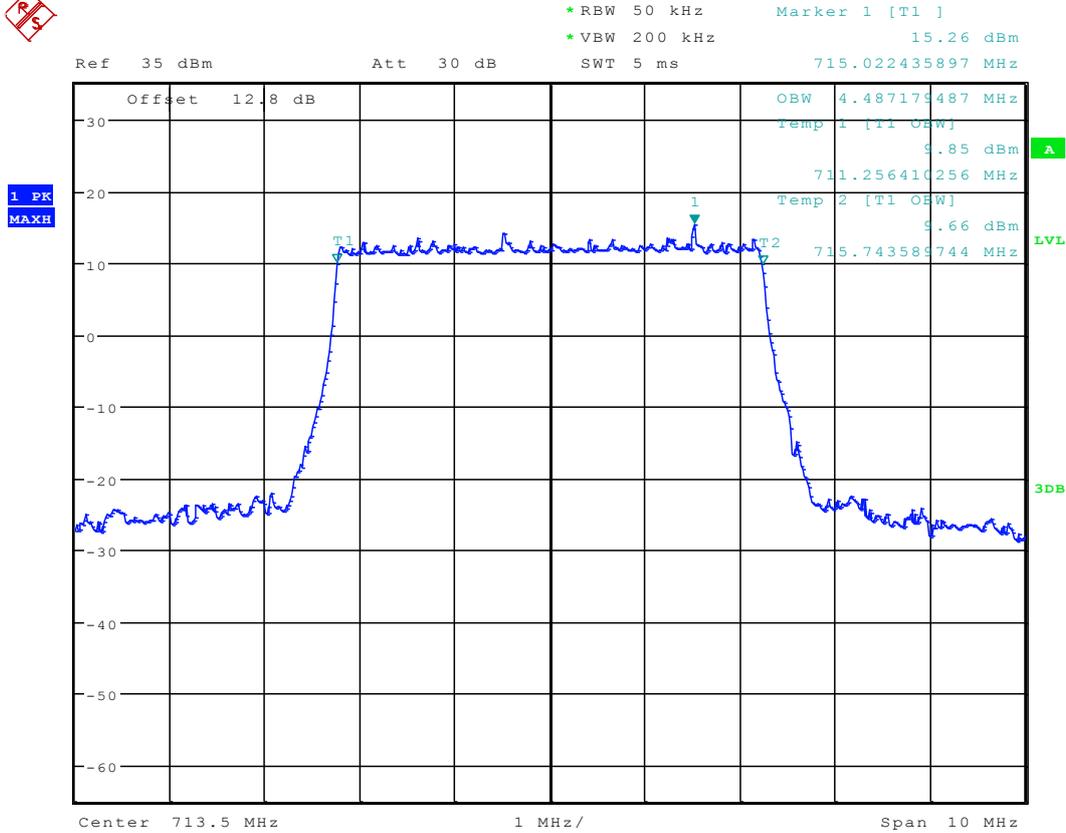


Date: 18.APR.2012 16:29:53



4.1.3.3 Channel =T

4.1.3.3.1 QPSK/full RBs



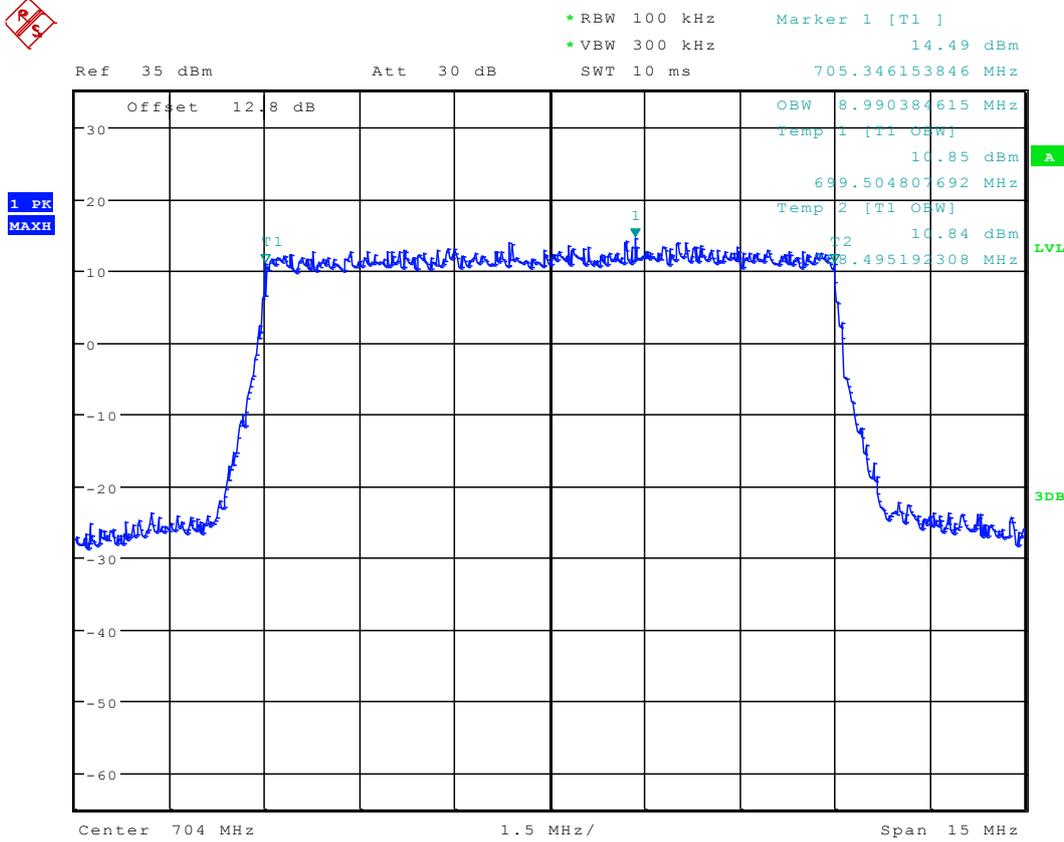
Date: 18.APR.2012 17:02:30



4.1.4 Channel Bandwidth = Highest (10 MHz)

4.1.4.1 Channel = B

4.1.4.1.1 QPSK/full RBs

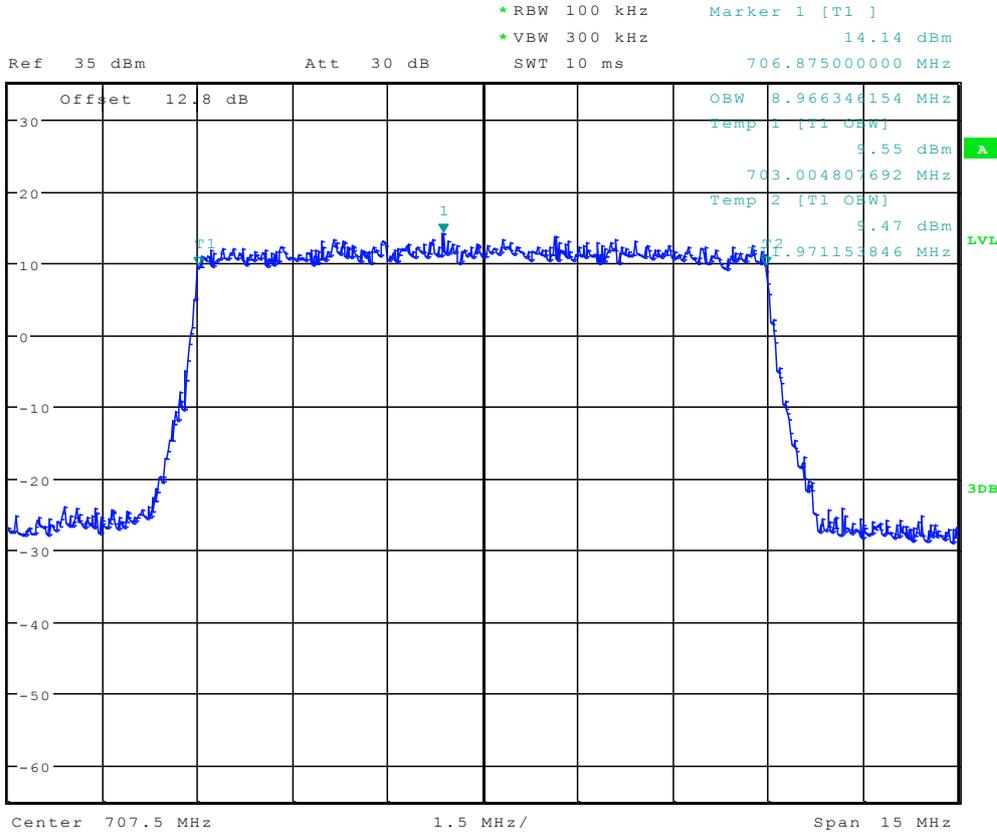


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4.1.4.2 Channel =M

4.1.4.2.1 QPSK/full RBs

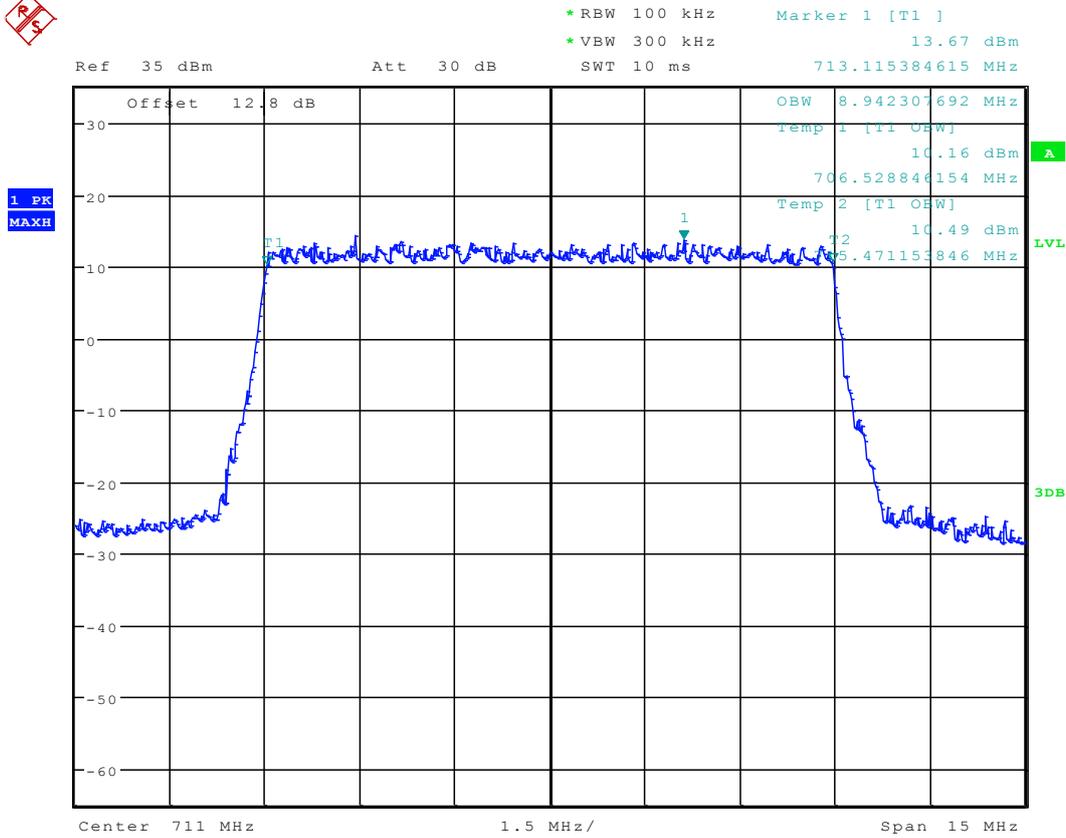


Date: 18.APR.2012 16:46:00



4.1.4.3 Channel =T

4.1.4.3.1 QPSK/full RBs



Date: 18.APR.2012 16:59:37

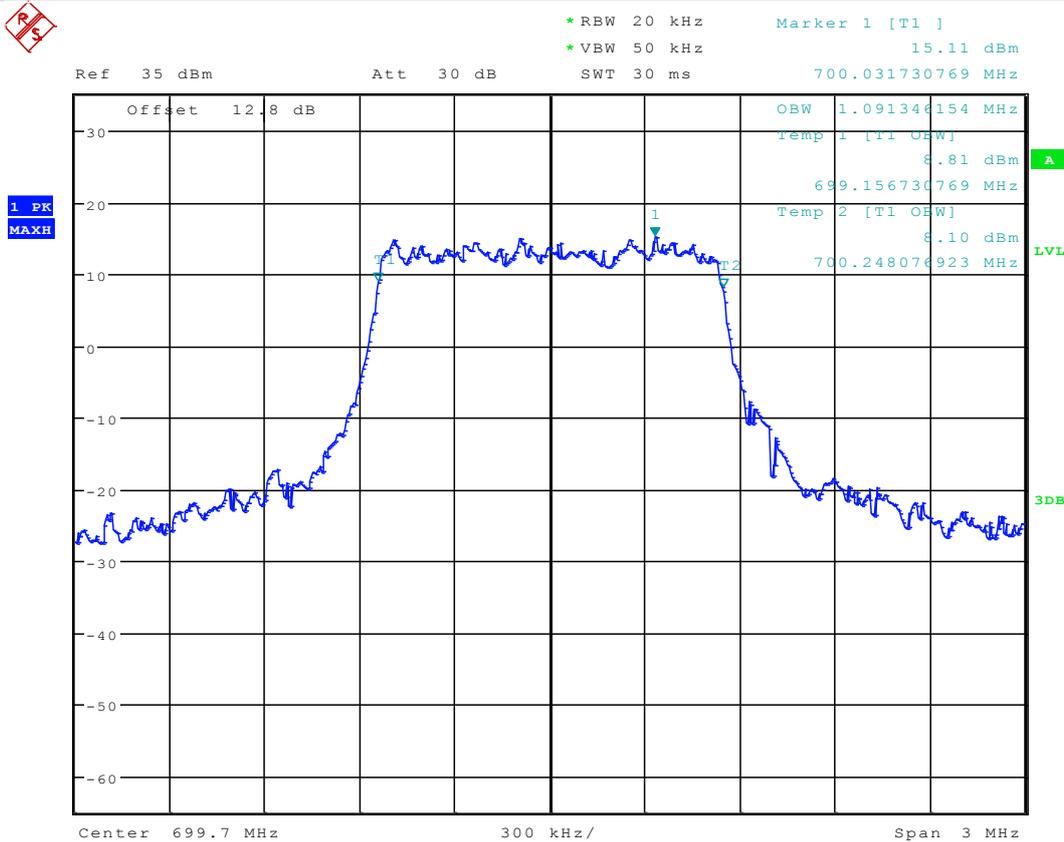


4.2 Test Mode=TM5

4.2.1 Channel Bandwidth = Lowest (1.4 MHz)

4.2.1.1 Channel = B

4.2.1.1.1 16QAM/full RBs



Date: 18.APR.2012 15:59:02

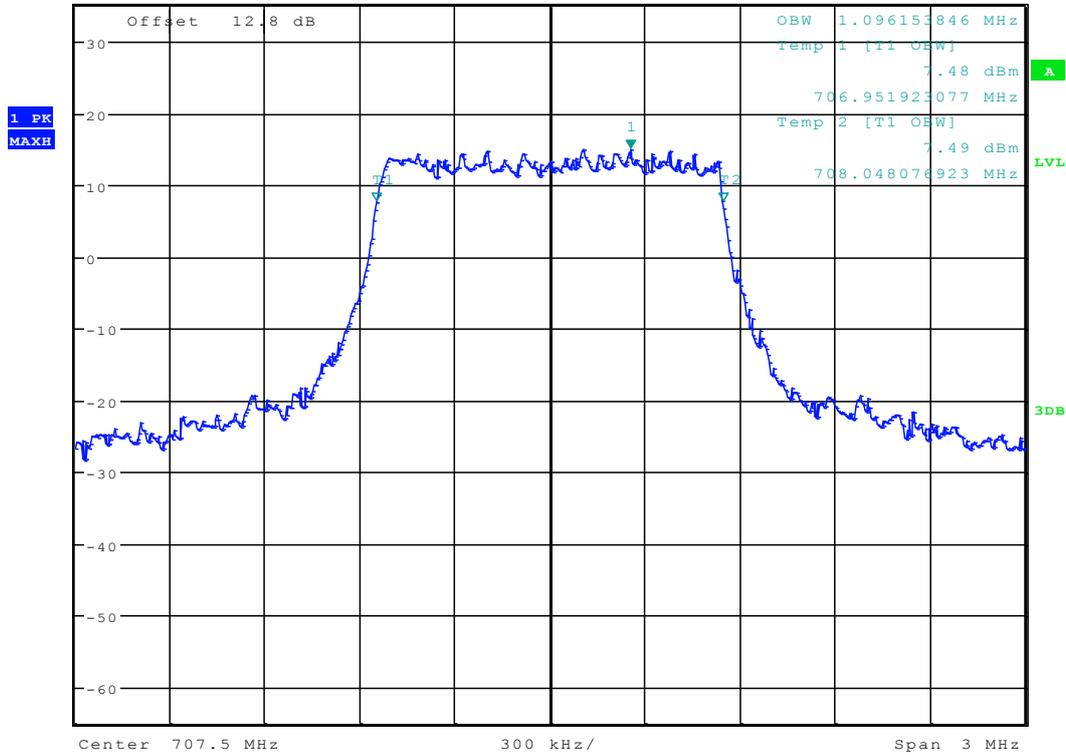


4.2.1.2 Channel =M

4.2.1.2.1 16QAM /full RBs



*RBW 20 kHz Marker 1 [T1]
 *VBW 50 kHz 15.01 dBm
 Ref 35 dBm Att 30 dB SWT 30 ms 707.754807692 MHz

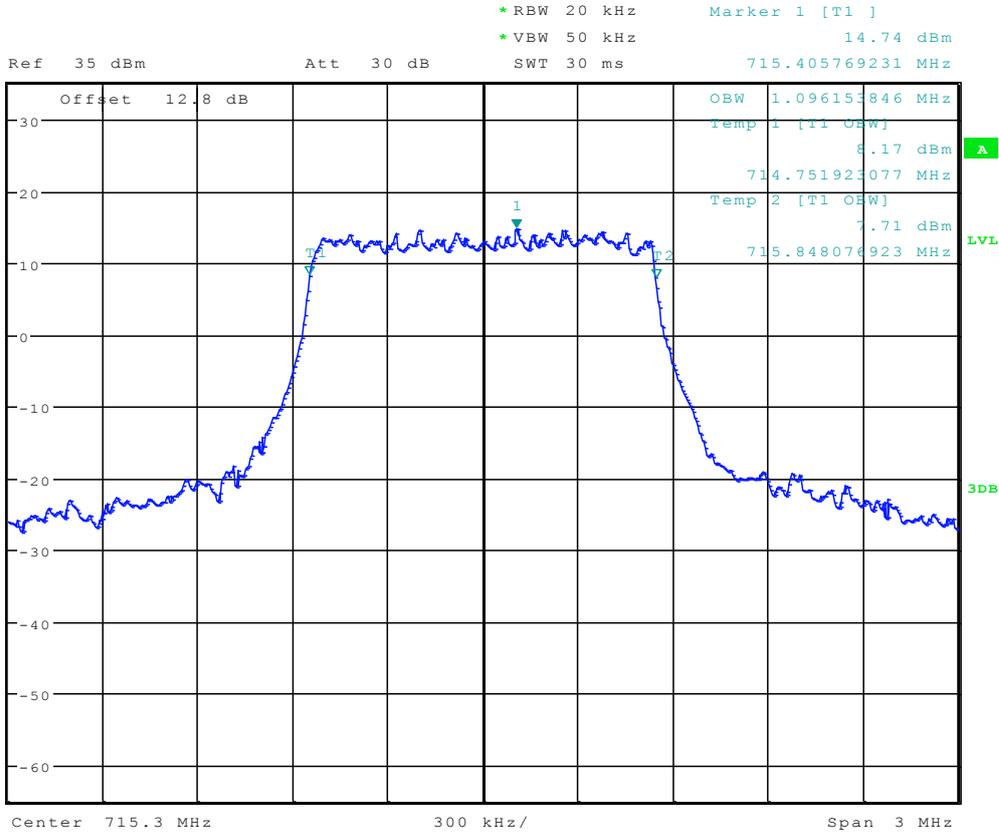


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4.2.1.3 Channel =T

4.2.1.3.1 16QAM /full RBs



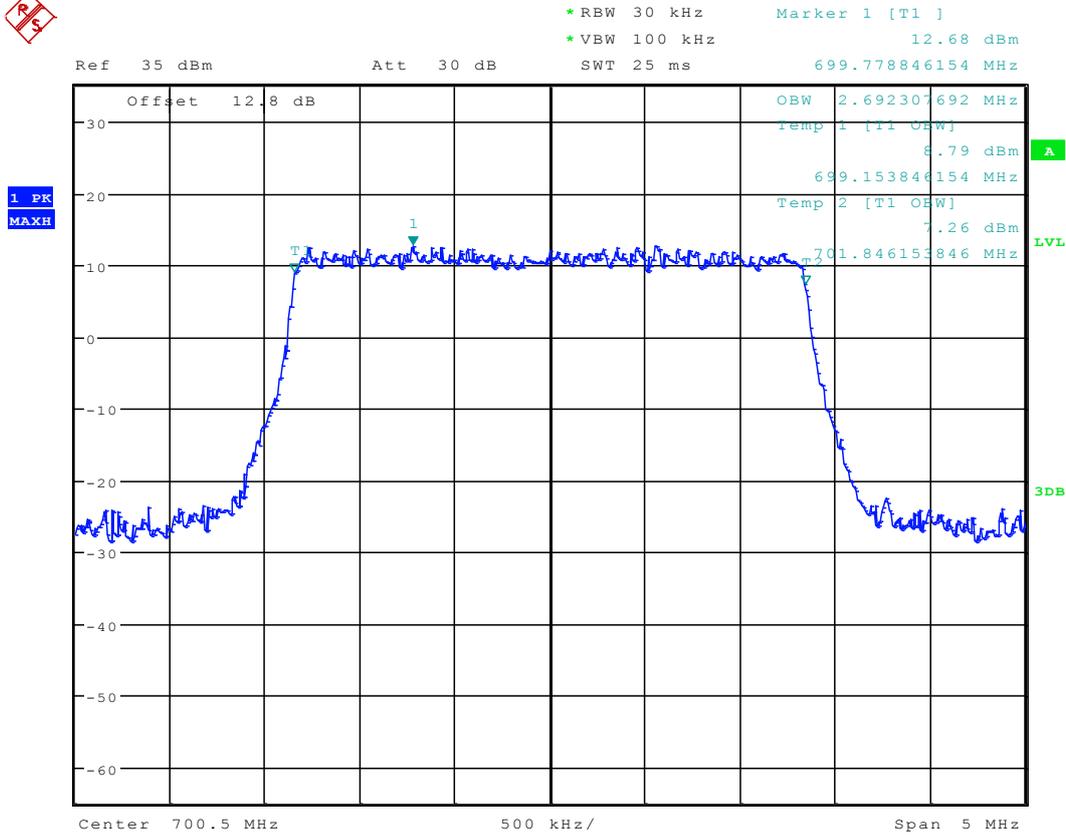
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4.2.2 Channel Bandwidth = 3 MHz

4.2.2.1 Channel = B

4.2.2.1.1 16QAM /full RBs

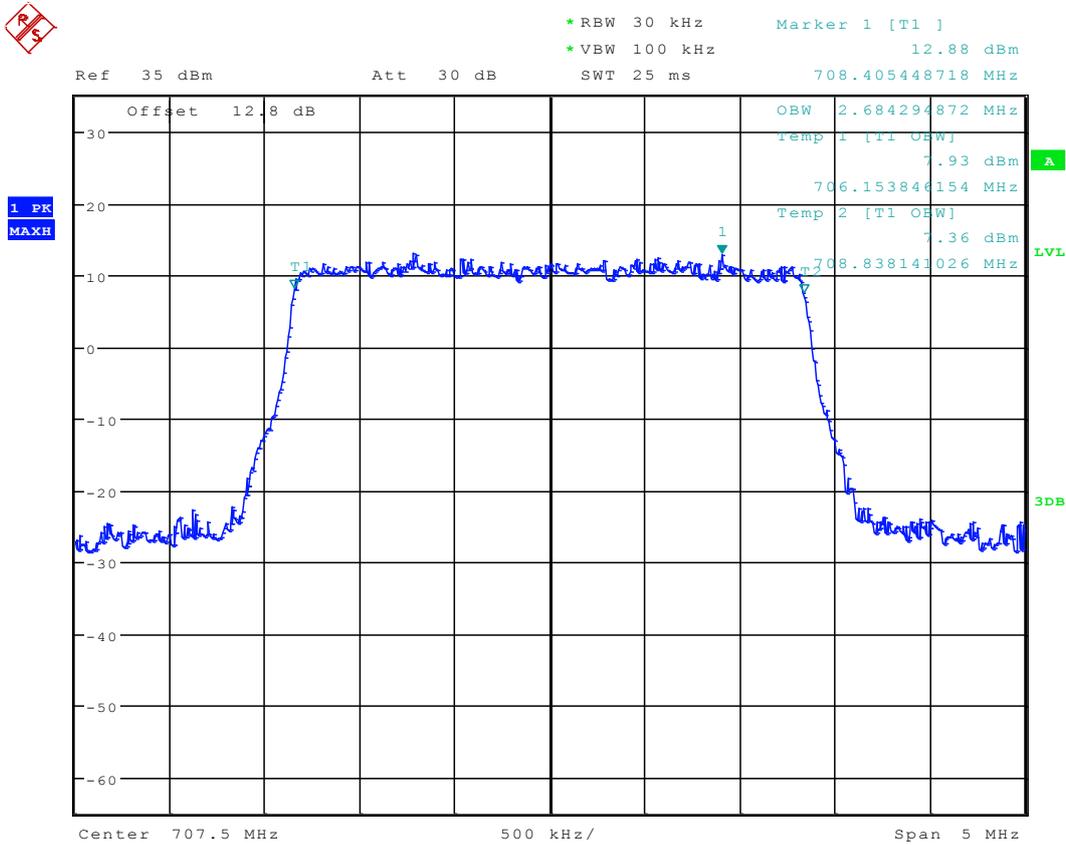


Date: 18.APR.2012 16:05:42



4.2.2.2 Channel =M

4.2.2.2.1 16QAM /full RBs

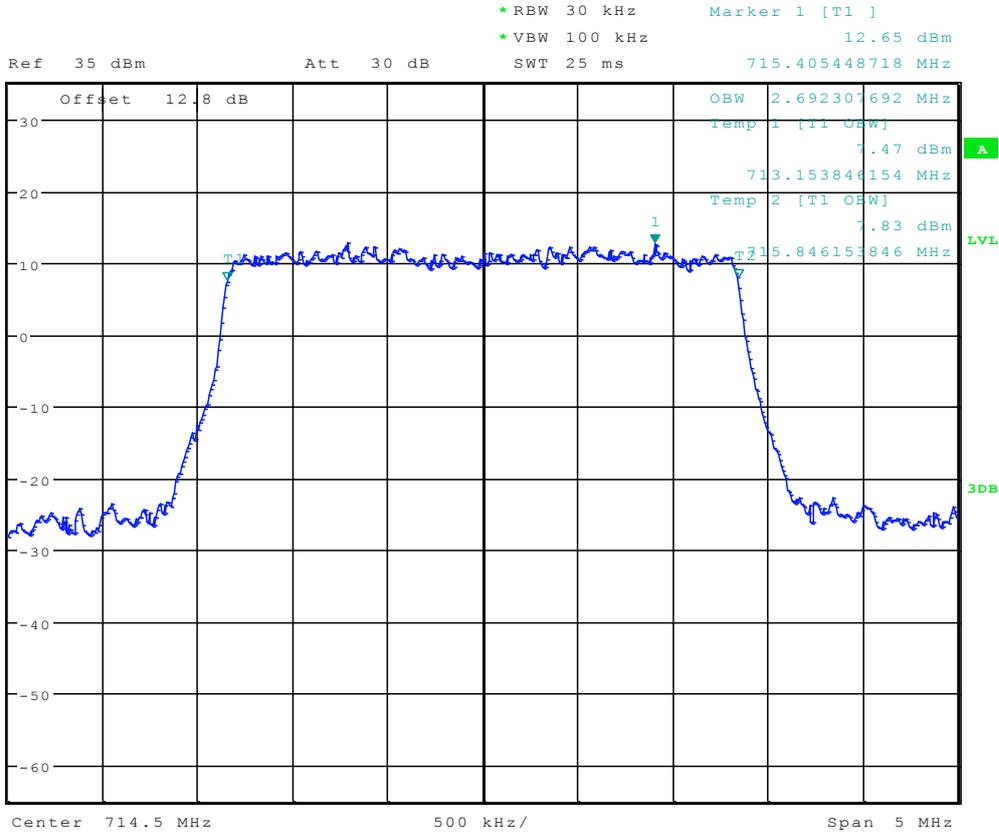


Date: 18.APR.2012 16:24:13



4.2.2.3 Channel =T

4.2.2.3.1 16QAM /full RBs



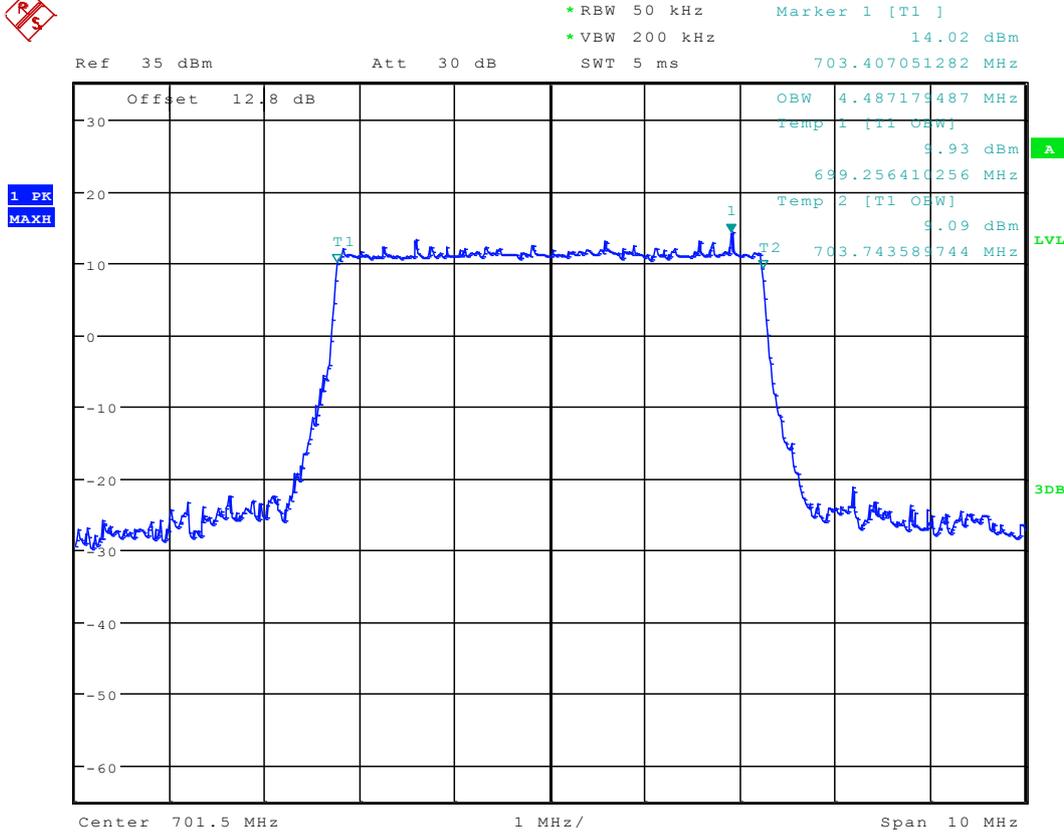
Date: 18.APR.2012 17:04:16



4.2.3 Channel Bandwidth = 5 MHz

4.2.3.1 Channel = B

4.2.3.1.1 16QAM /full RBs

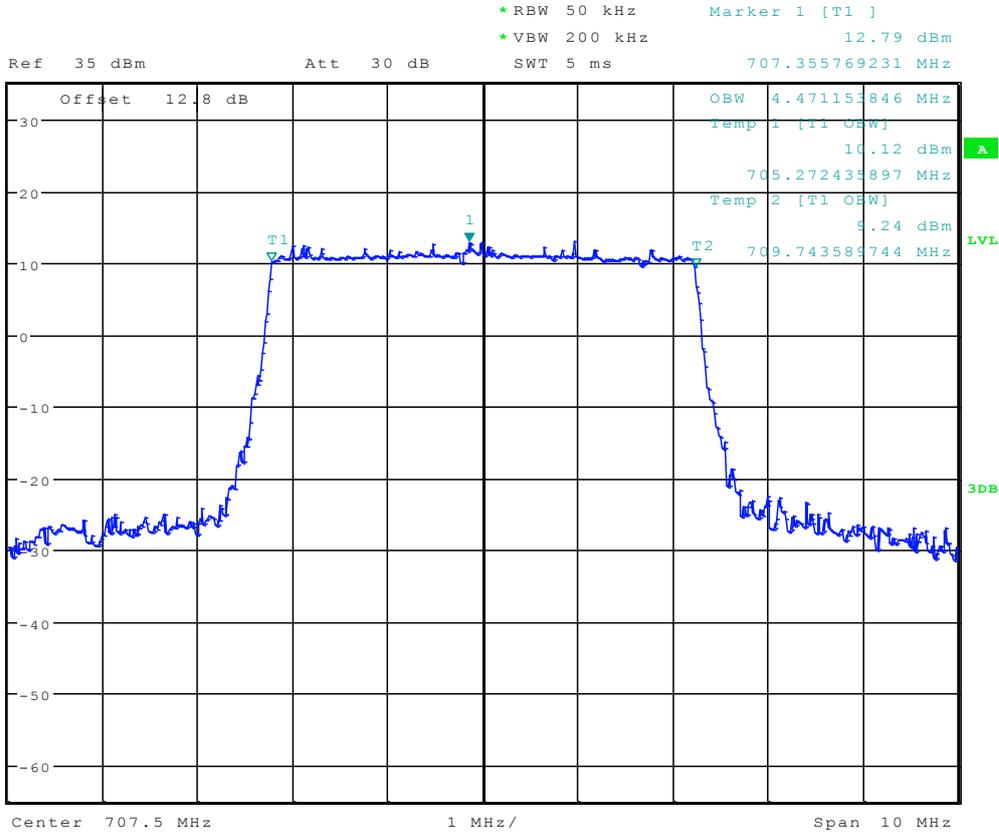


Date: 18.APR.2012 16:30:23



4.2.3.2 Channel =M

4.2.3.2.1 16QAM /full RBs



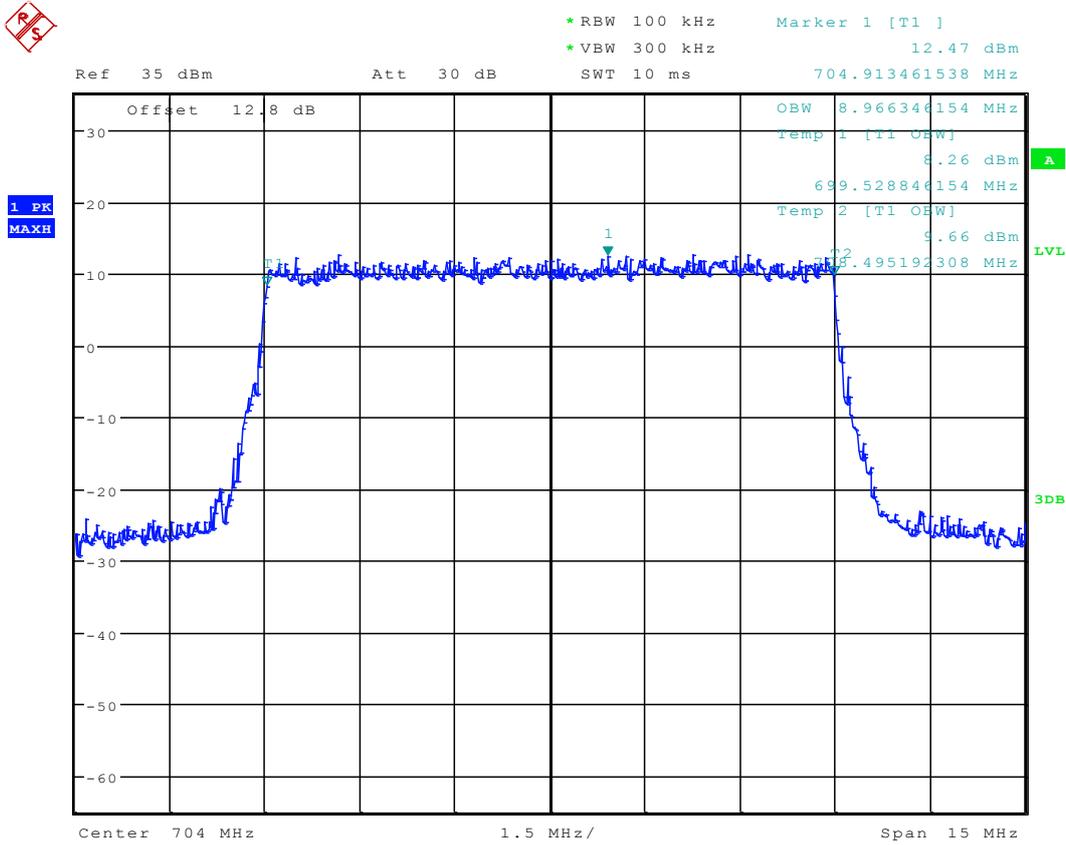
Date: 18.APR.2012 16:31:06



4.2.4 Channel Bandwidth = Highest (10 MHz)

4.2.4.1 Channel = B

4.2.4.1.1 16QAM /full RBs



Date: 18.APR.2012 16:43:53

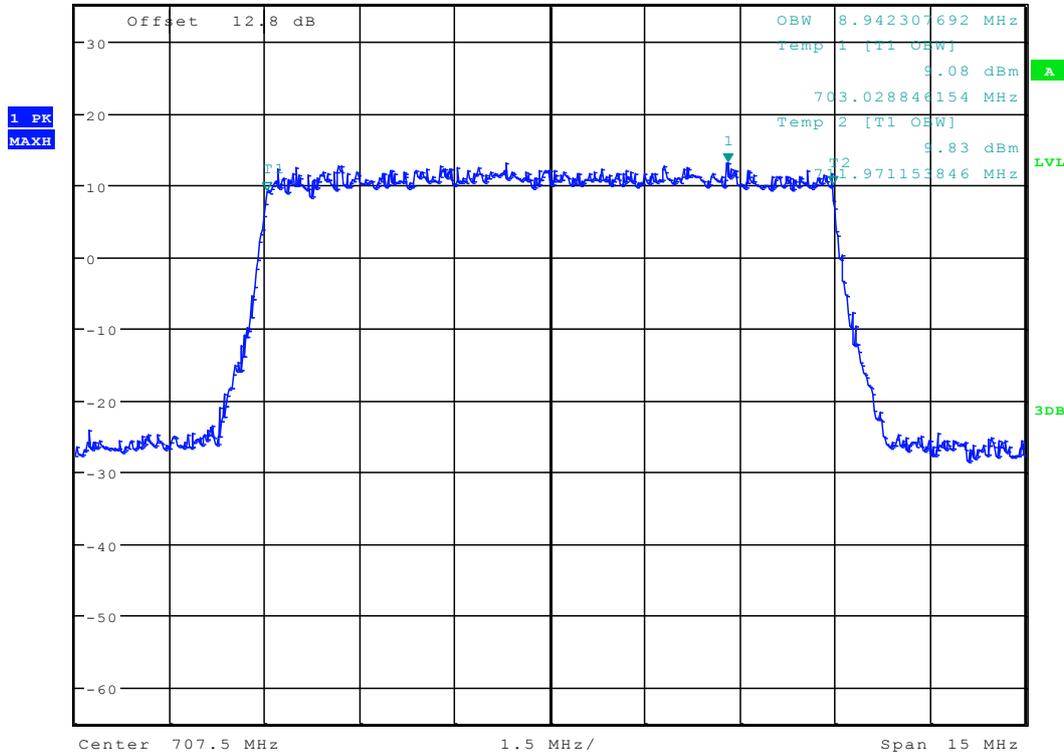


4.2.4.2 Channel =M

4.2.4.2.1 16QAM /full RBs



*RBW 100 kHz Marker 1 [T1]
*VBW 300 kHz 13.12 dBm
Ref 35 dBm Att 30 dB SWT 10 ms 710.312500000 MHz

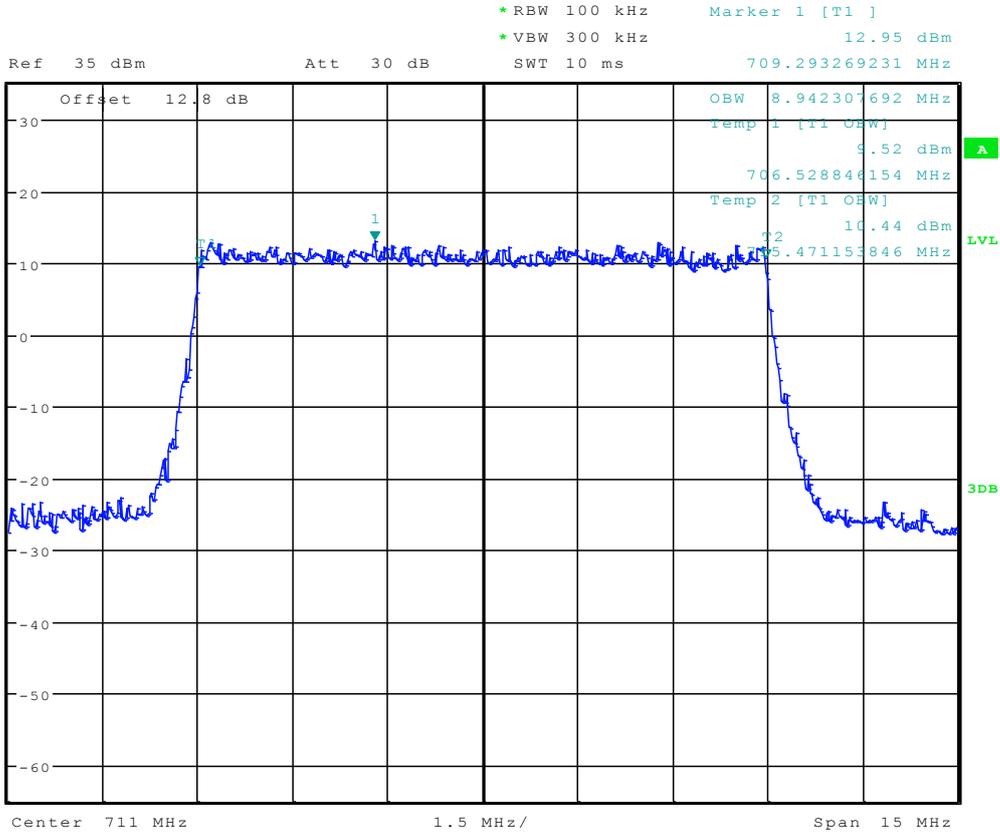


Date: 18.APR.2012 16:45:34



4.2.4.3 Channel =T

4.2.4.3.1 16QAM /full RBs



Date: 18.APR.2012 17:00:03

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