



Appendix E. Spectrum Plots From RB Size

Operation Band	Bandwidth	Modulation	RB Size/Offset	OBW99%(MHZ)
Band 2	1.4MHz	QPSK	1RB / Offset 0	0.28
			1RB / Offset 5	0.28
			3RB / Offset 2	0.655
			6RB / Offset 0	1.092
		16QAM	1RB / Offset 0	0.28
			1RB / Offset 5	0.285
			3RB / Offset 2	0.621
			6RB / Offset 0	1.097
	3MHz	QPSK	1RB / Offset 0	0.408
			1RB / Offset 14	0.42
			8RB / Offset 4	1.596
			15RB / Offset 0	2.736
		16QAM	1RB / Offset 0	0.432
			1RB / Offset 14	0.42
			8RB / Offset 4	1.584
			15RB / Offset 0	2.736
	5MHz	QPSK	1RB / Offset 0	0.5
			1RB / Offset 24	0.48
			12RB / Offset 6	2.28
			25RB / Offset 0	4.52
		16QAM	1RB / Offset 0	0.48
			1RB / Offset 24	0.48
			12RB / Offset 6	2.26
			25RB / Offset 0	4.52
	10MHz	QPSK	1RB / Offset 0	1
			1RB / Offset 49	0.96
			25RB / Offset 13	4.8
			50RB / Offset 0	9.16
		16QAM	1RB / Offset 0	0.96
			1RB / Offset 49	0.96
			25RB / Offset 13	4.8
			50RB / Offset 0	9.08



Operation Band	Bandwidth	Modulation	RB Size/Offset	OBW99%(MHZ)
Band 4	1.4MHz	QPSK	1RB / Offset 0	0.291
			1RB / Offset 5	0.285
			3RB / Offset 2	0.649
			6RB / Offset 0	1.103
		16QAM	1RB / Offset 0	0.28
			1RB / Offset 5	0.296
			3RB / Offset 2	0.644
			6RB / Offset 0	1.097
	3MHz	QPSK	1RB / Offset 0	0.42
			1RB / Offset 14	0.408
			8RB / Offset 4	1.596
			15RB / Offset 0	2.724
		16QAM	1RB / Offset 0	0.444
			1RB / Offset 14	0.432
			8RB / Offset 4	1.608
			15RB / Offset 0	2.736
	5MHz	QPSK	1RB / Offset 0	0.48
			1RB / Offset 24	0.48
			12RB / Offset 6	2.3
			25RB / Offset 0	4.5
		16QAM	1RB / Offset 0	0.5
			1RB / Offset 24	0.48
			12RB / Offset 6	2.28
			25RB / Offset 0	4.52
	10MHz	QPSK	1RB / Offset 0	0.96
			1RB / Offset 49	1.04
			25RB / Offset 13	4.84
			50RB / Offset 0	9.12
		16QAM	1RB / Offset 0	0.96
			1RB / Offset 49	1
			25RB / Offset 13	4.88
			50RB / Offset 0	9.12

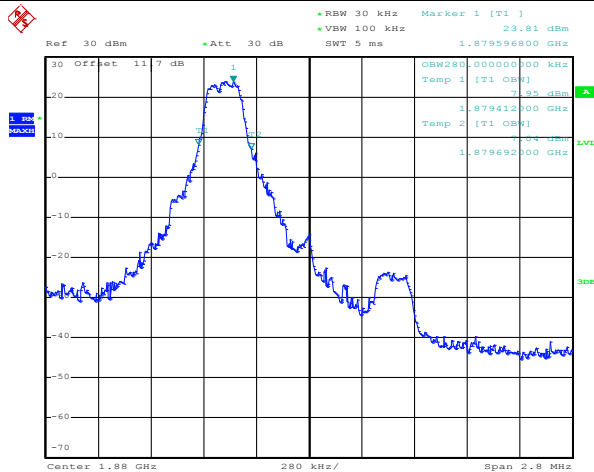


Operation Band	Bandwidth	Modulation	RB Size/Offset	OBW99%(MHZ)
Band 12	1.4MHz	QPSK	1RB / Offset 0	0.274
			1RB / Offset 5	0.28
			3RB / Offset 2	0.627
			6RB / Offset 0	1.103
		16QAM	1RB / Offset 0	0.274
			1RB / Offset 5	0.268
			3RB / Offset 2	0.61
			6RB / Offset 0	1.103
	3MHz	QPSK	1RB / Offset 0	0.42
			1RB / Offset 14	0.396
			8RB / Offset 4	1.584
			15RB / Offset 0	2.736
		16QAM	1RB / Offset 0	0.396
			1RB / Offset 14	0.384
			8RB / Offset 4	1.584
			15RB / Offset 0	2.748
	5MHz	QPSK	1RB / Offset 0	0.46
			1RB / Offset 24	0.46
			12RB / Offset 6	2.26
			25RB / Offset 0	4.5
		16QAM	1RB / Offset 0	0.46
			1RB / Offset 24	0.42
			12RB / Offset 6	2.26
			25RB / Offset 0	4.5
	10MHz	QPSK	1RB / Offset 0	0.96
			1RB / Offset 49	0.96
			25RB / Offset 13	4.84
			50RB / Offset 0	9.16
		16QAM	1RB / Offset 0	0.96
			1RB / Offset 49	0.96
			25RB / Offset 13	4.84
			50RB / Offset 0	9.08

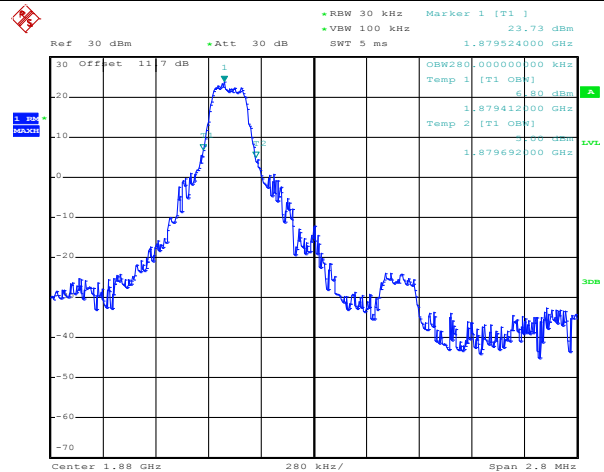


Band 2

Bandwidth 1.4M

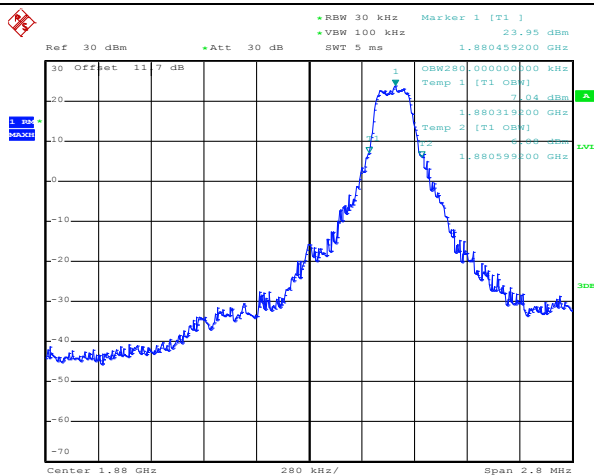


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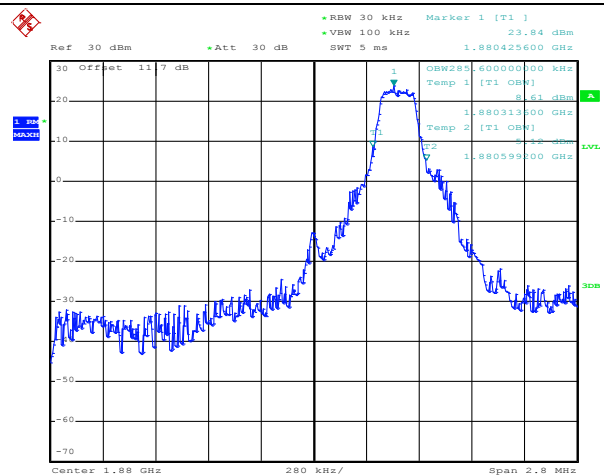
Date: 19.SEP.2012 21:47:06

1RB Size, RB Offset 0, QPSK



Date: 19.SEP.2012 21:47:23

1RB Size, RB Offset 0, 16QAM



Date: 19.SEP.2012 21:47:59

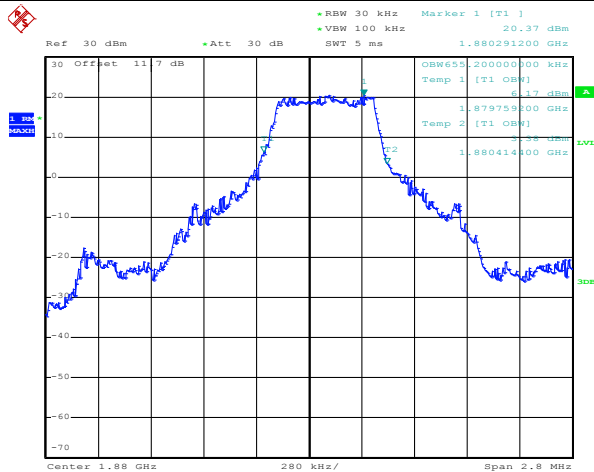
1RB Size, RB Offset 5, QPSK

1RB Size, RB Offset 5, 16QAM



Band 2

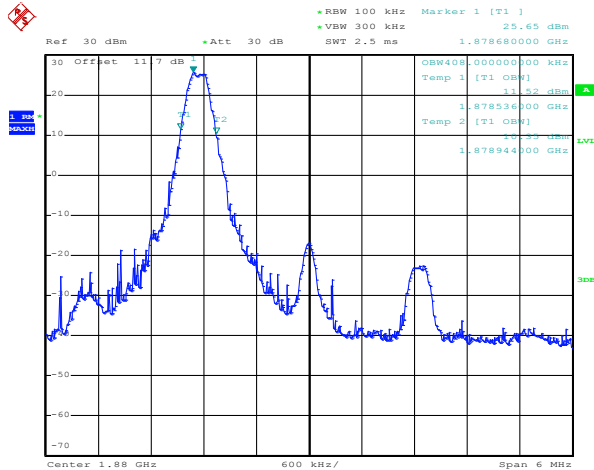
Bandwidth 1.4M



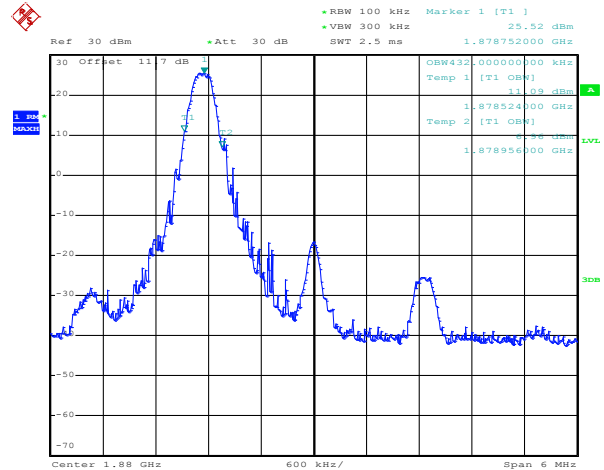


Band 2

Bandwidth 3M

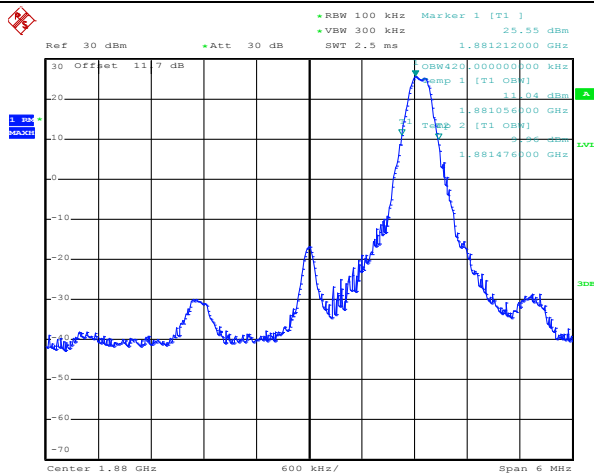


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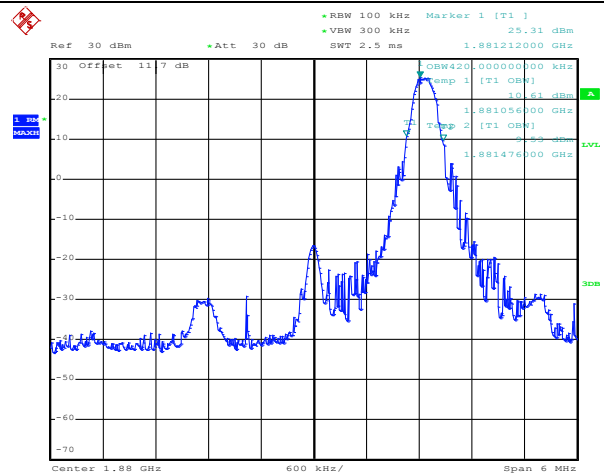
Date: 19.SEP.2012 21:42:42

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Date: 19.SEP.2012 21:43:07

1RB Size, RB Offset 0, 16QAM



Date: 19.SEP.2012 21:43:20

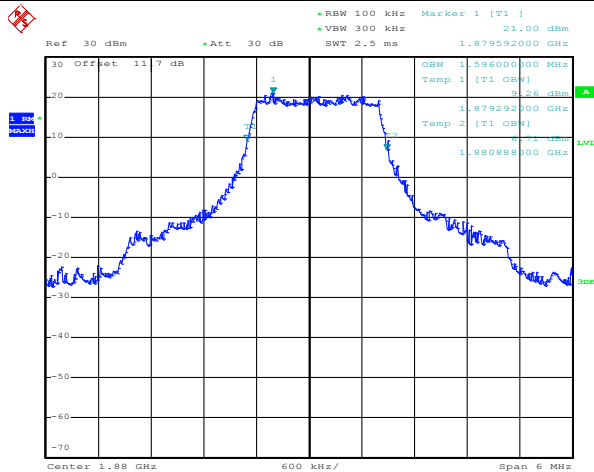
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1RB Size, RB Offset 14, 16QAM

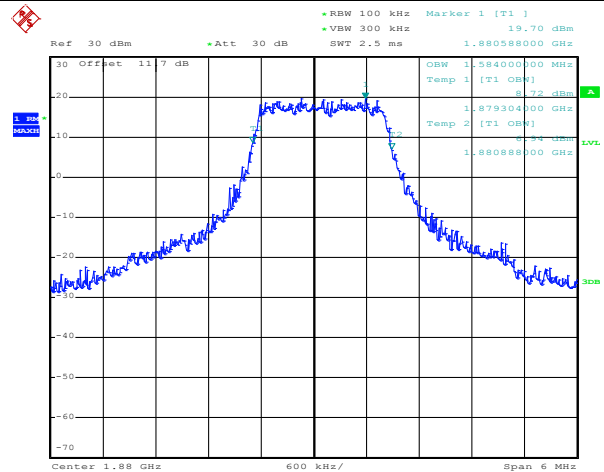


Band 2

Bandwidth 3M

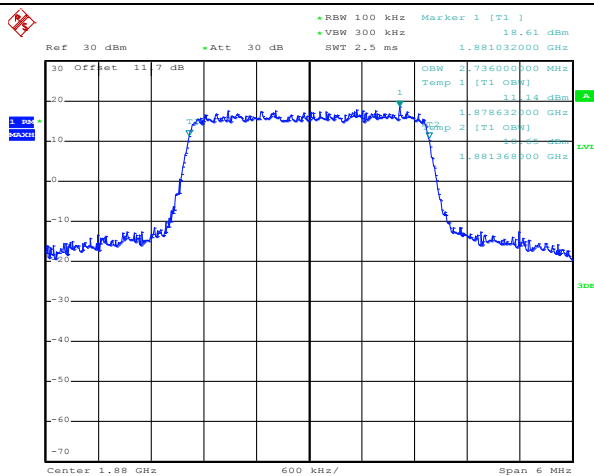


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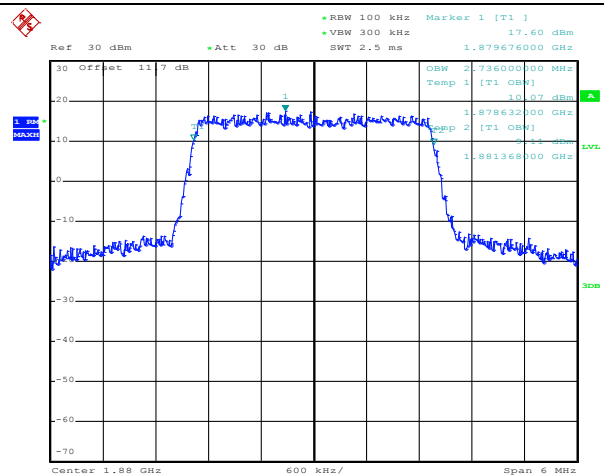
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8RB Size, RB Offset 4, QPSK



Date: 19.SEP.2012 21:41:42

8RB Size, RB Offset 4, 16QAM



Date: 19.SEP.2012 21:41:57

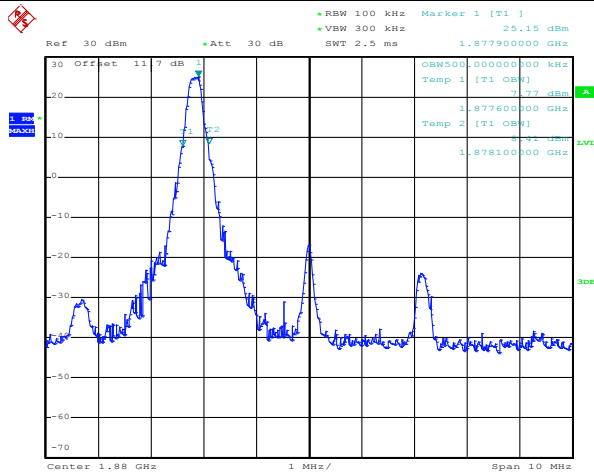
15RB Size, RB Offset 0, QPSK

15RB Size, RB Offset 0, 16QAM

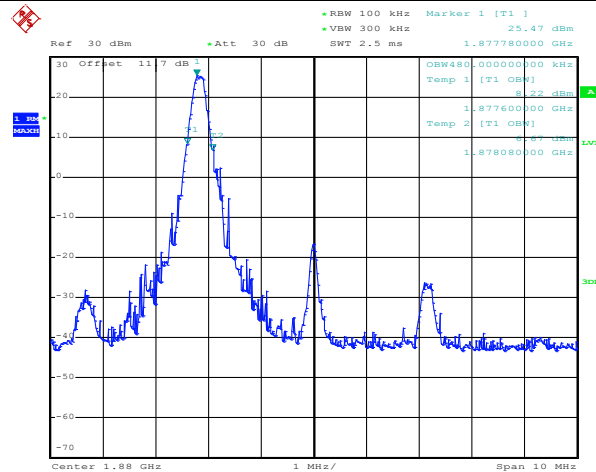


Band 2

Bandwidth 5M

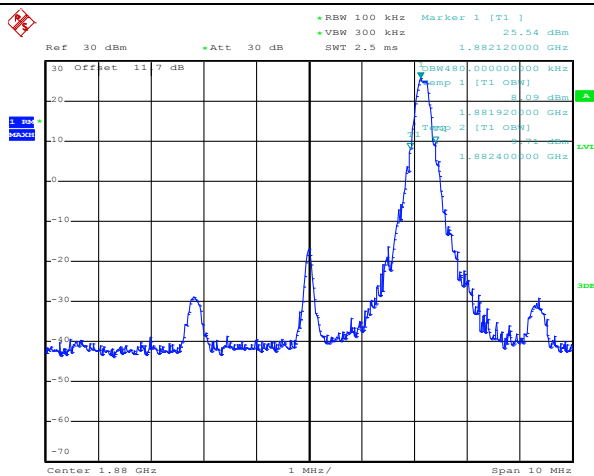


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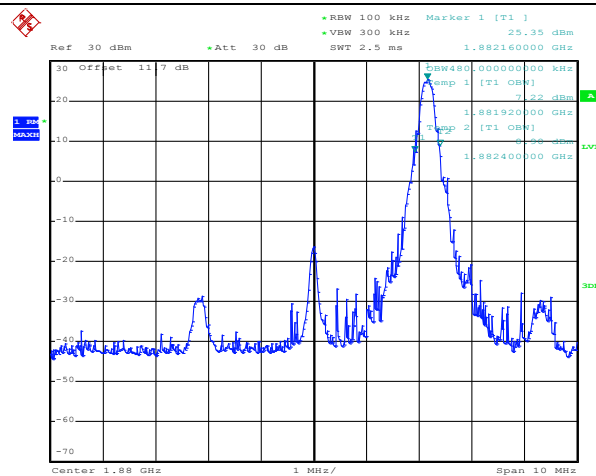
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Date: 19.SEP.2012 21:35:40

1RB Size, RB Offset 0, 16QAM



Date: 19.SEP.2012 21:36:22

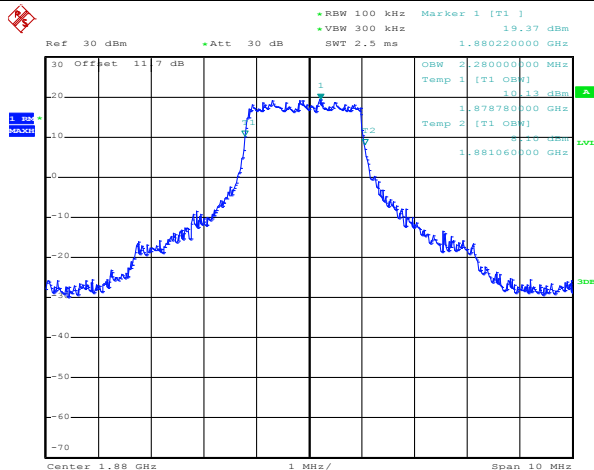
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1RB Size, RB Offset 24, 16QAM

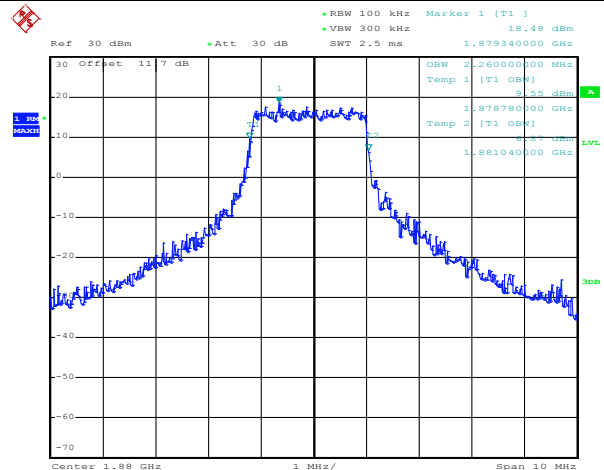


Band 2

Bandwidth 5M

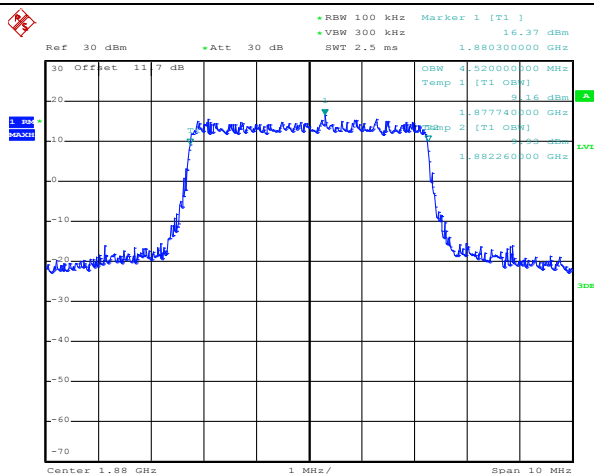


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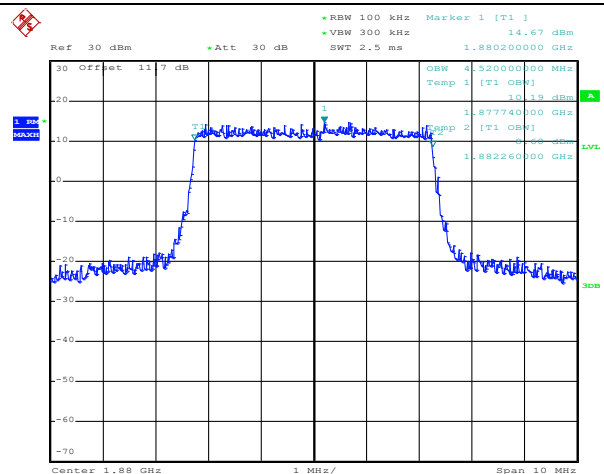
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12RB Size, RB Offset 6, QPSK



Date: 19.SEP.2012 21:34:13

12RB Size, RB Offset 6, 16QAM



Date: 19.SEP.2012 21:34:29

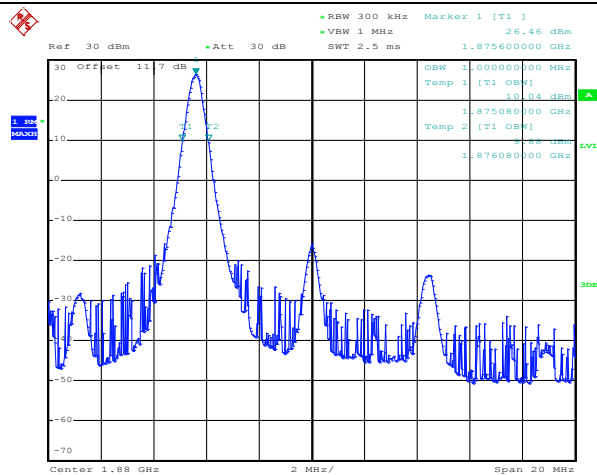
25RB Size, RB Offset 0, QPSK

25RB Size, RB Offset 0, 16QAM

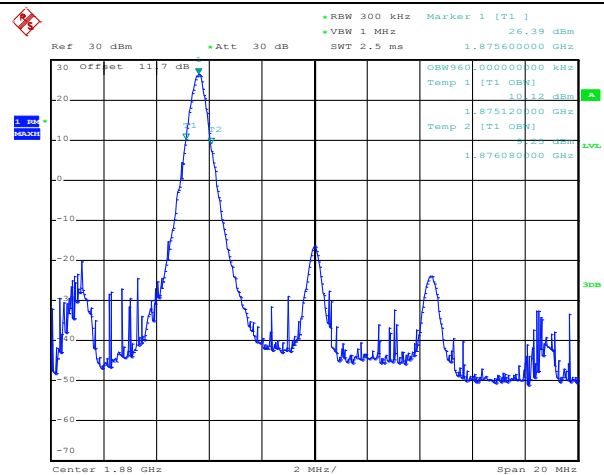


Band 2

Bandwidth 10M

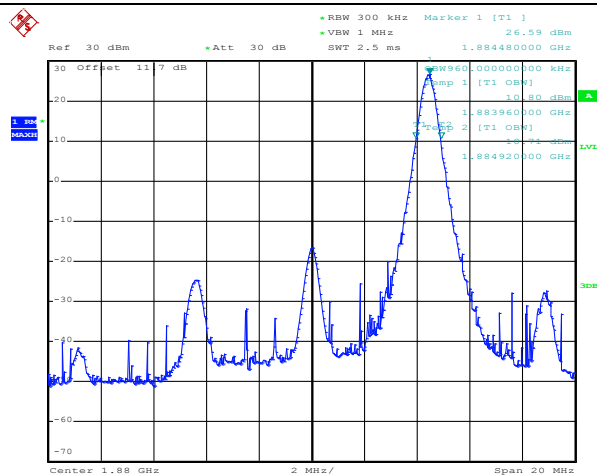


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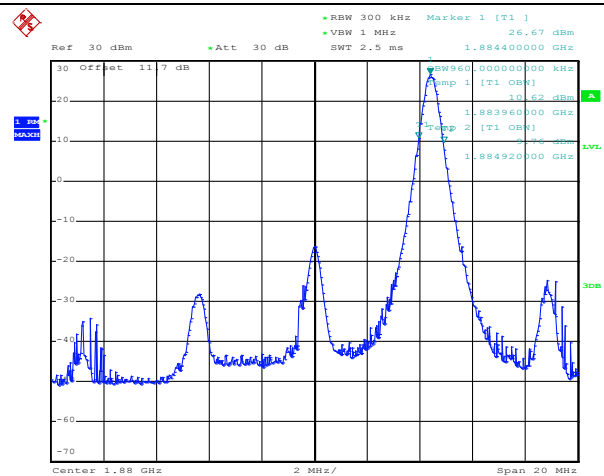
Date: 19.SEP.2012 21:23:04

1RB Size, RB Offset 0, QPSK



Date: 19.SEP.2012 21:24:25

1RB Size, RB Offset 0, 16QAM

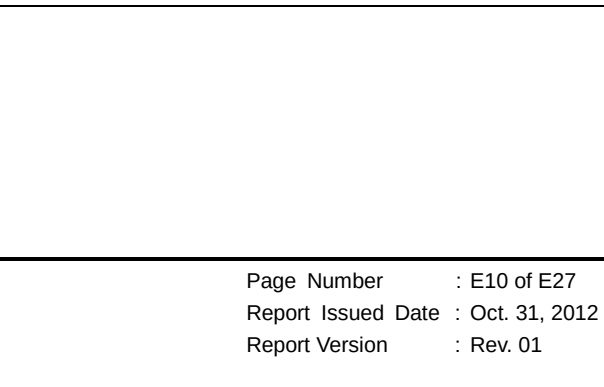


Date: 19.SEP.2012 21:24:38

1RB Size, RB Offset 49, QPSK



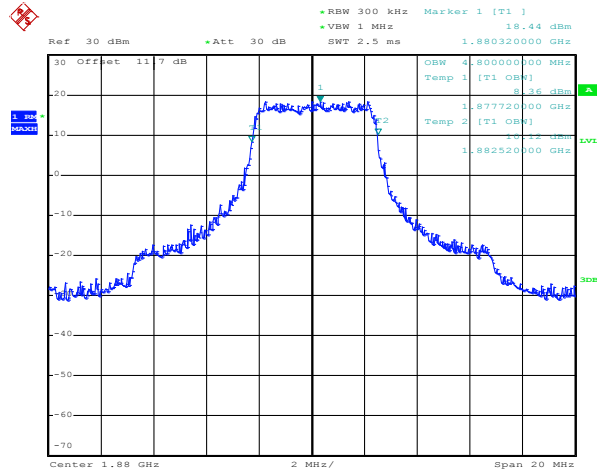
1RB Size, RB Offset 49, 16QAM



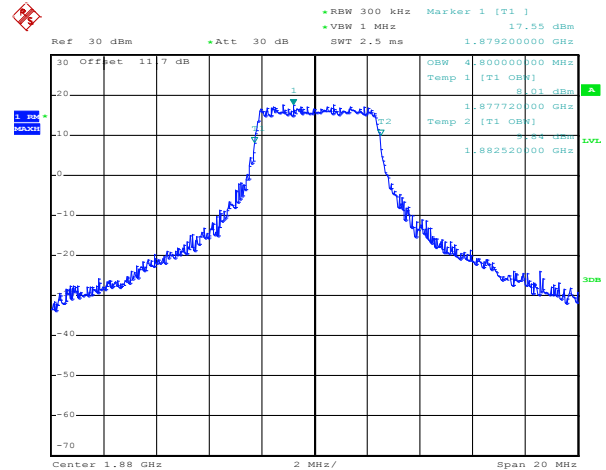


Band 2

Bandwidth 10M

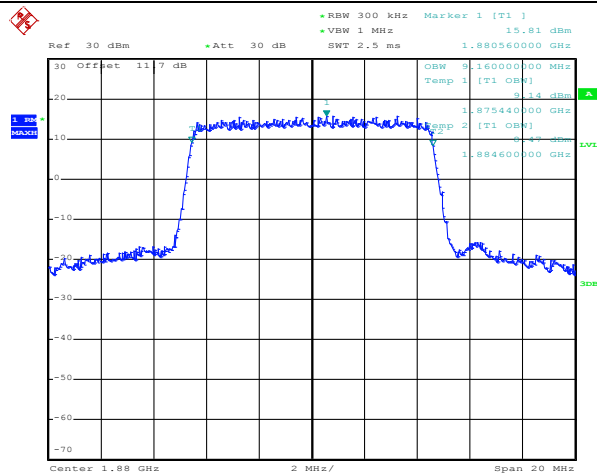


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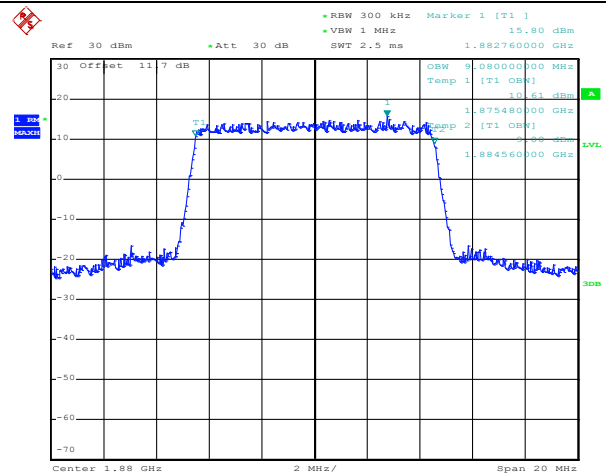
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25RB Size, RB Offset 13, QPSK



Date: 19.SEP.2012 21:20:12

25RB Size, RB Offset 13, 16QAM

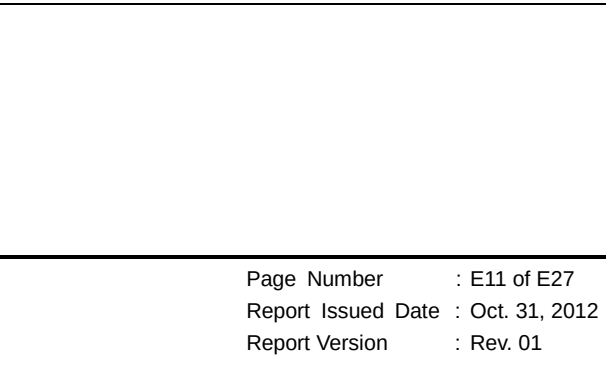


Date: 19.SEP.2012 21:20:36

50RB Size, RB Offset 0, QPSK



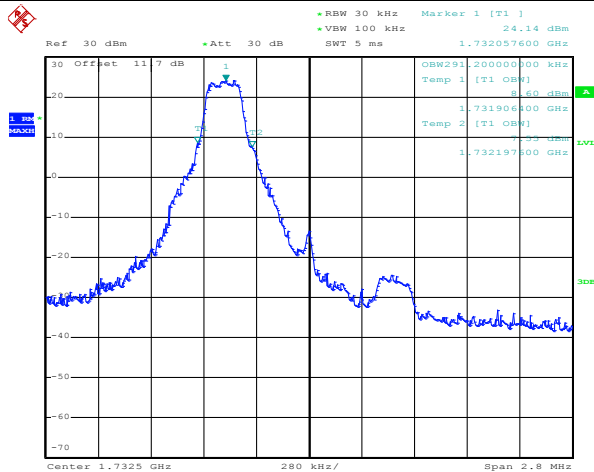
50RB Size, RB Offset 0, 16QAM



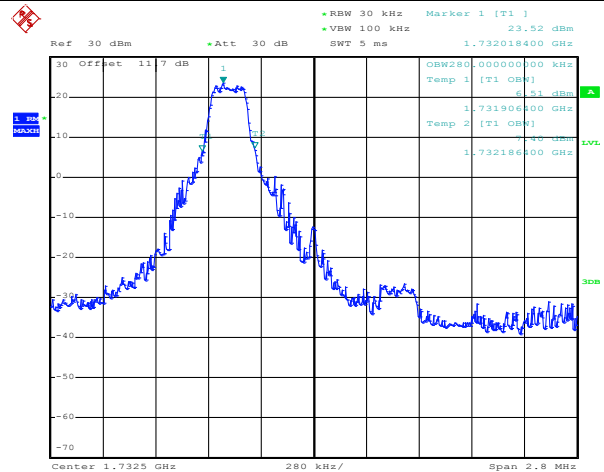


Band 4

Bandwidth 1.4M

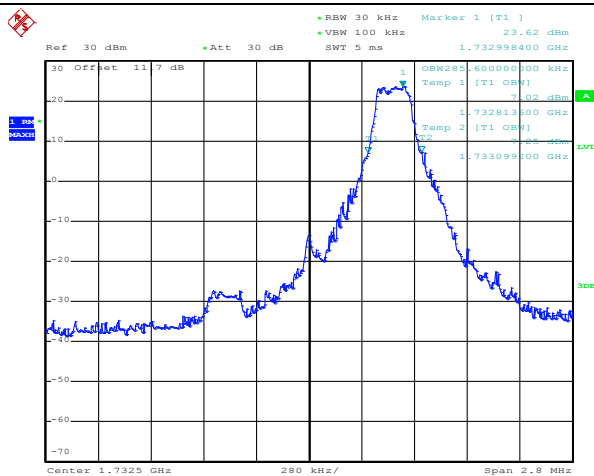


Date: 8.SEP.2012 21:37:08



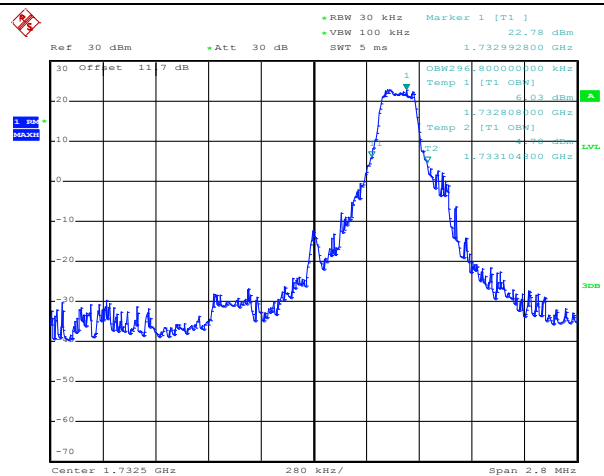
Date: 8.SEP.2012 21:37:22

1RB Size, RB Offset 0, QPSK



Date: 8.SEP.2012 21:37:44

1RB Size, RB Offset 0, 16QAM



Date: 8.SEP.2012 21:38:00

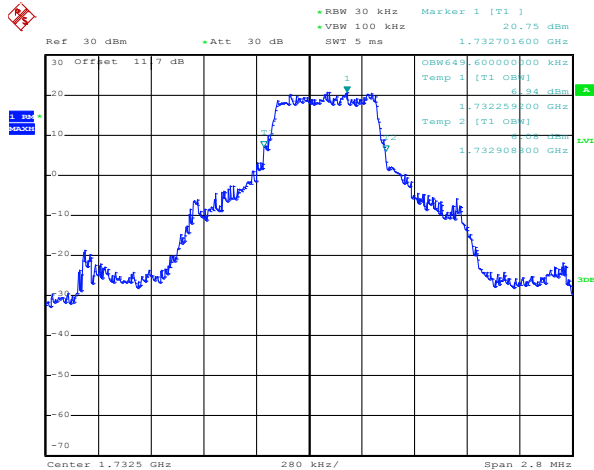
1RB Size, RB Offset 5, QPSK

1RB Size, RB Offset 5, 16QAM

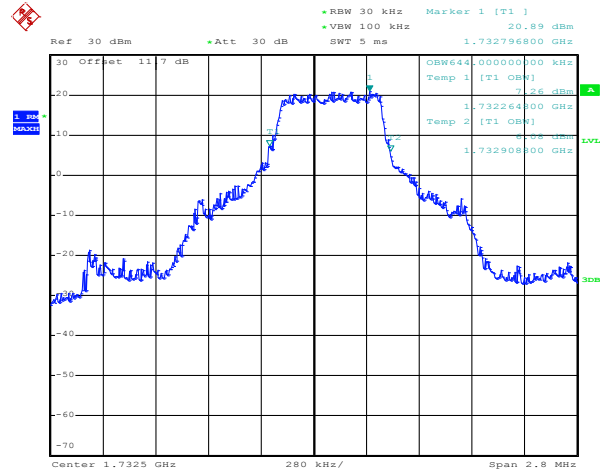


Band 4

Bandwidth 1.4M

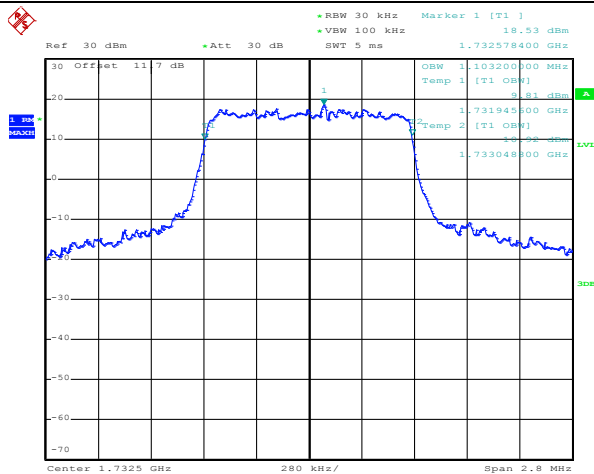


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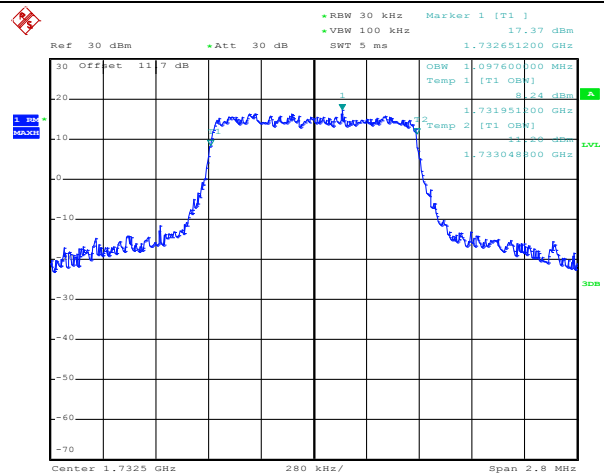
Date: 8.SEP.2012 21:40:42

3RB Size, RB Offset 2, QPSK



Date: 8.SEP.2012 21:43:02

3RB Size, RB Offset 2, 16QAM



Date: 8.SEP.2012 21:43:21

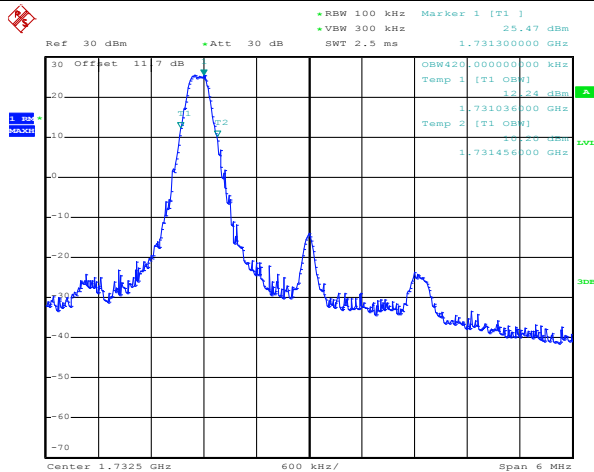
6RB Size, RB Offset 0, QPSK

6RB Size, RB Offset 0, 16QAM

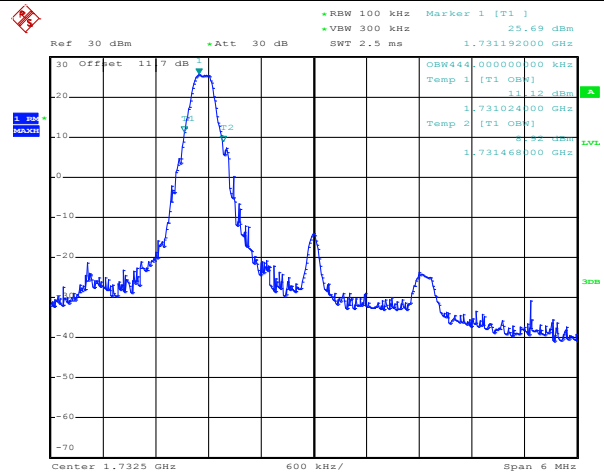


Band 4

Bandwidth 3M

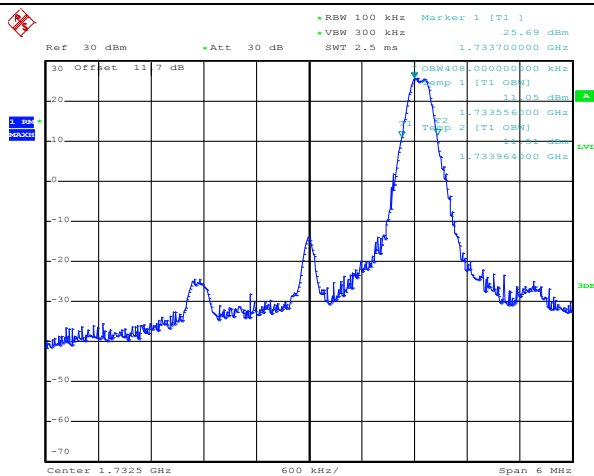


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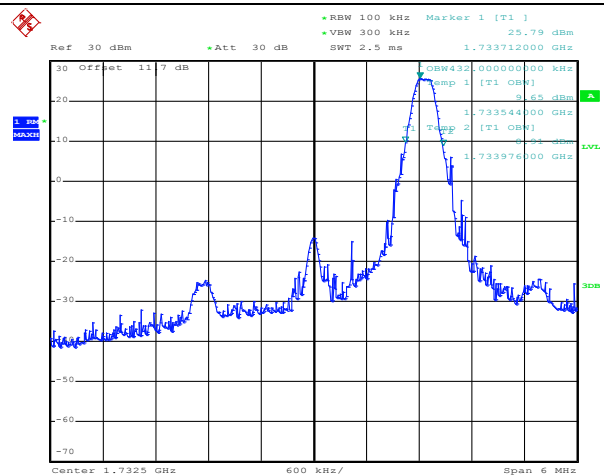
Date: 8.SEP.2012 21:32:26

1RB Size, RB Offset 0, QPSK



Date: 8.SEP.2012 21:32:59

1RB Size, RB Offset 0, 16QAM



Date: 8.SEP.2012 21:33:20

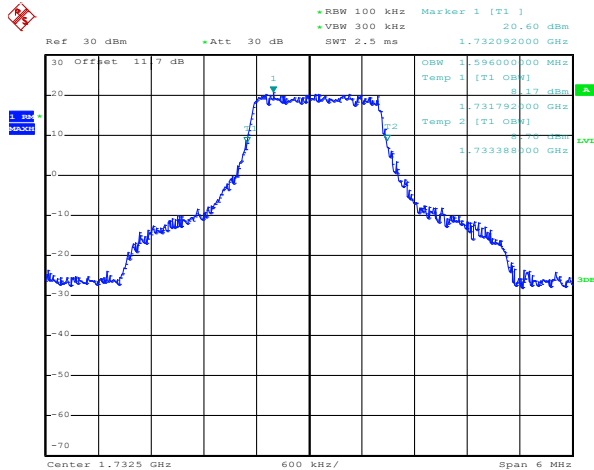
1RB Size, RB Offset 14, QPSK

1RB Size, RB Offset 14, 16QAM

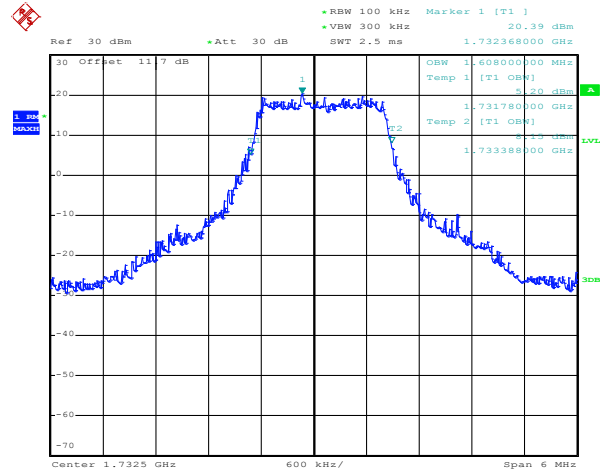


Band 4

Bandwidth 3M

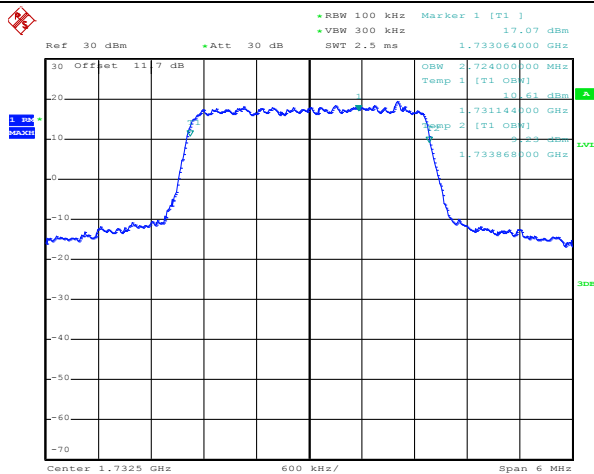


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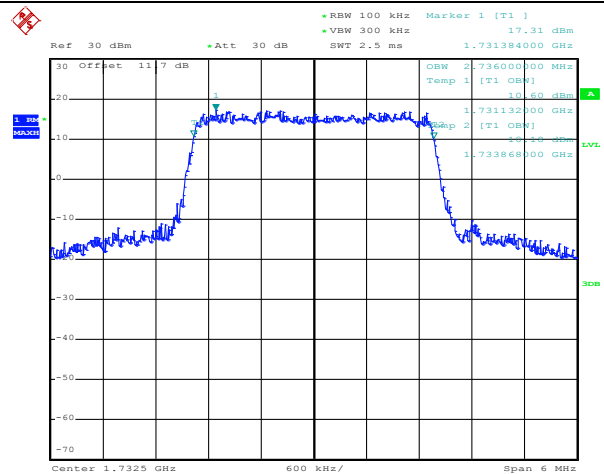
Date: 8.SEP.2012 21:34:06

8RB Size, RB Offset 4, QPSK



Date: 8.SEP.2012 21:31:26

8RB Size, RB Offset 4, 16QAM



Date: 8.SEP.2012 21:31:38

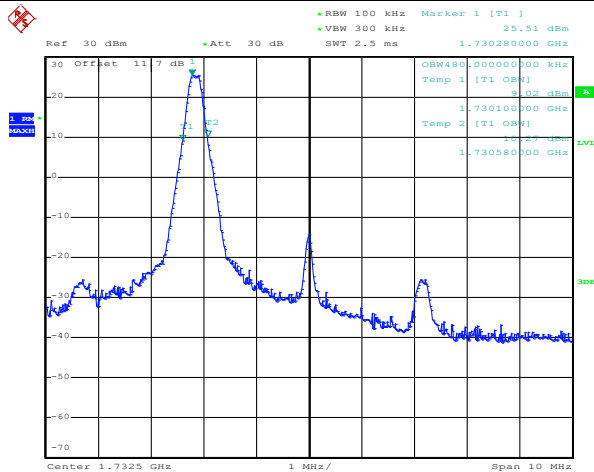
15RB Size, RB Offset 0, QPSK

15RB Size, RB Offset 0, 16QAM

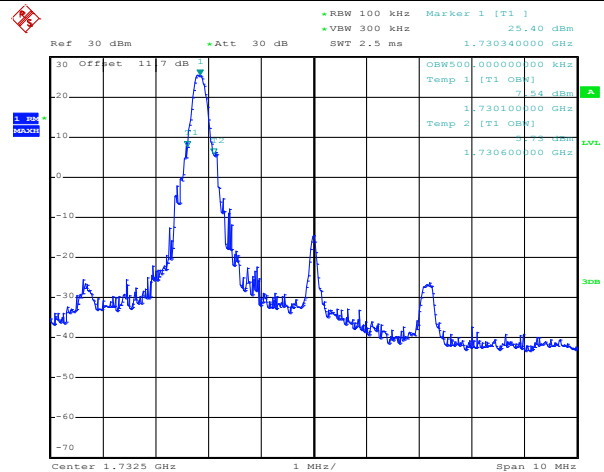


Band 4

Bandwidth 5M

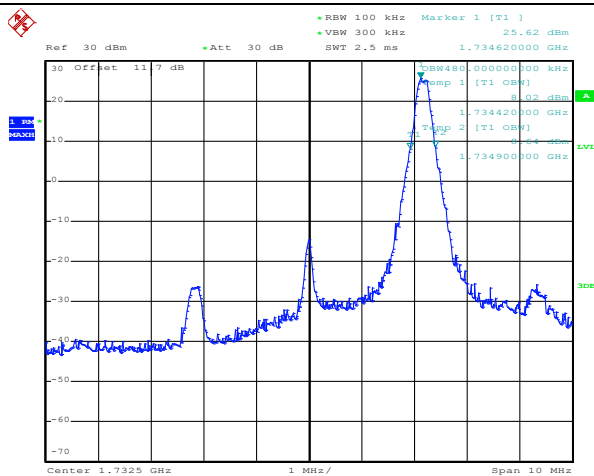


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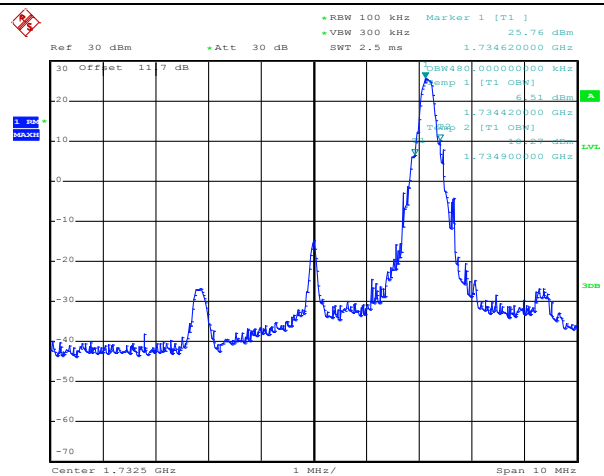
Date: 8.SEP.2012 20:34:47

1RB Size, RB Offset 0, QPSK



Date: 8.SEP.2012 20:35:45

1RB Size, RB Offset 0, 16QAM



Date: 8.SEP.2012 20:35:57

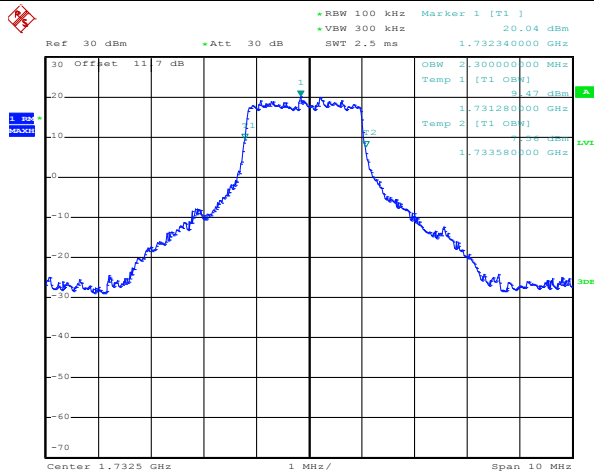
1RB Size, RB Offset 24, QPSK

1RB Size, RB Offset 24, 16QAM

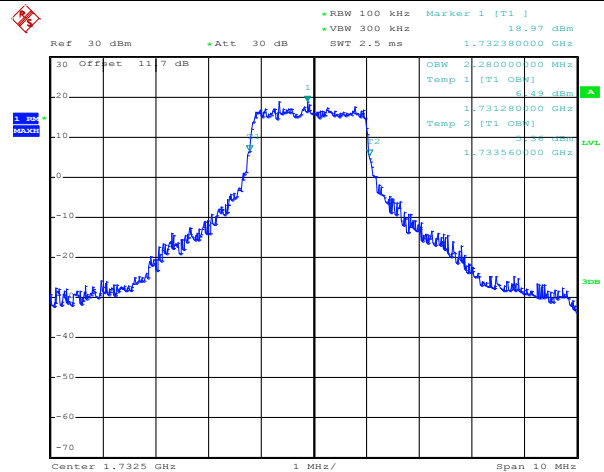


Band 4

Bandwidth 5M

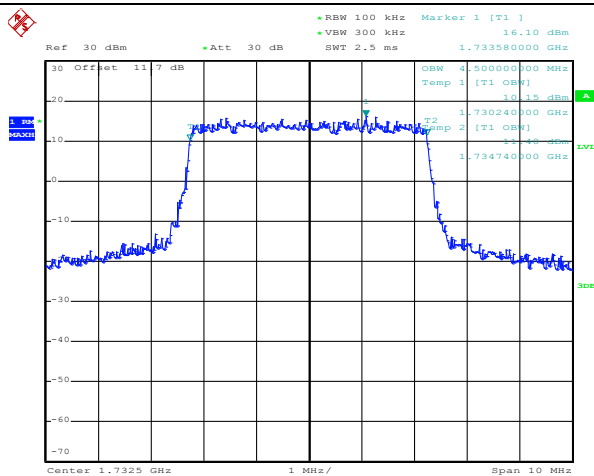


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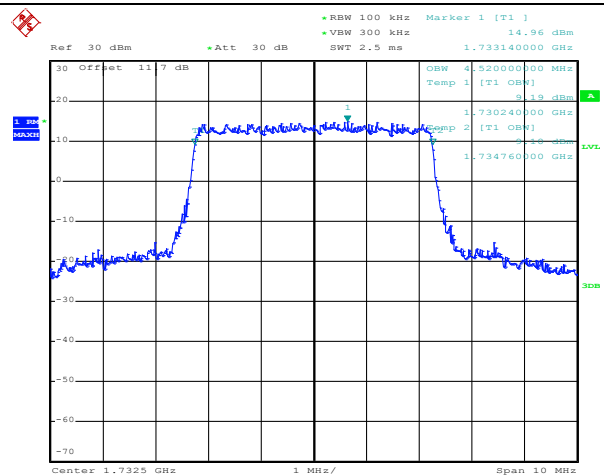
Date: 8.SEP.2012 20:38:47

12RB Size, RB Offset 6, QPSK



Date: 8.SEP.2012 20:39:45

12RB Size, RB Offset 6, 16QAM



Date: 8.SEP.2012 20:39:29

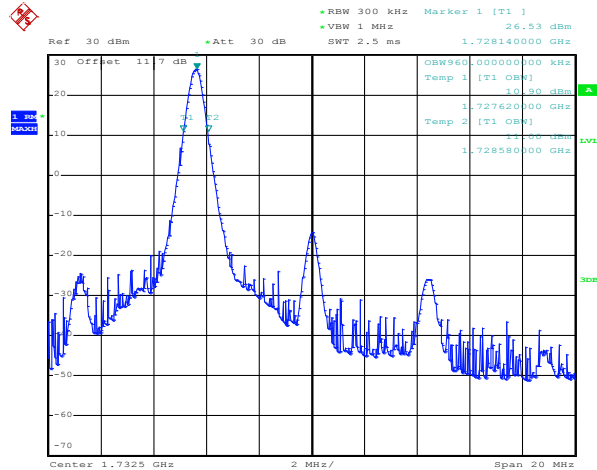
25RB Size, RB Offset 0, QPSK

25RB Size, RB Offset 0, 16QAM

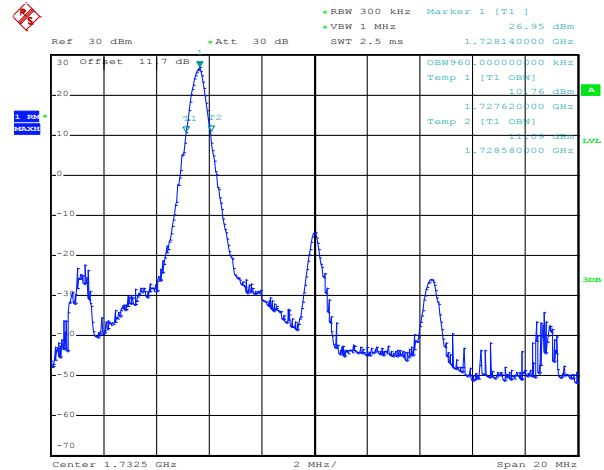


Band 4

Bandwidth 10M

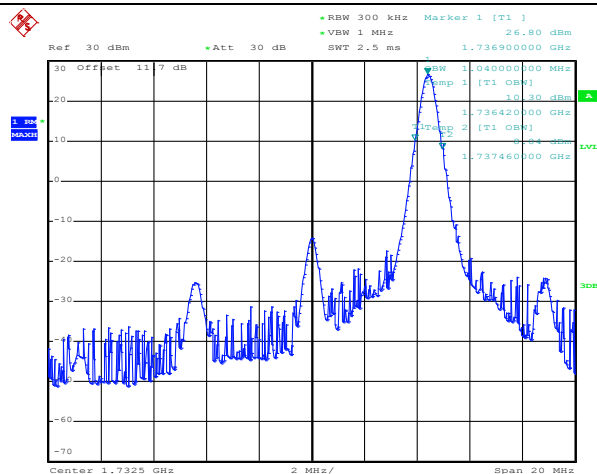


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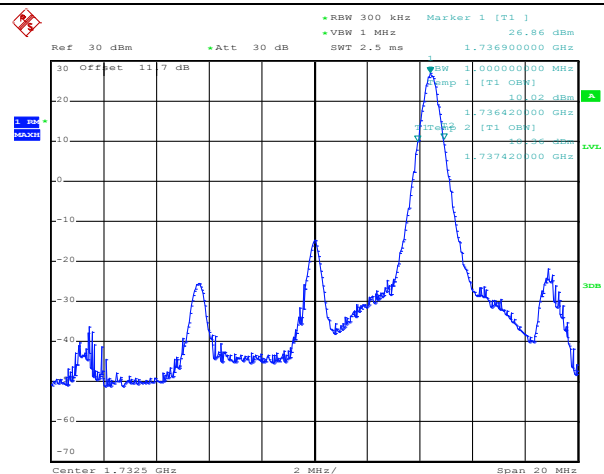
Date: 8.SEP.2012 21:20:36

1RB Size, RB Offset 0, QPSK



Date: 8.SEP.2012 21:21:00

1RB Size, RB Offset 0, 16QAM



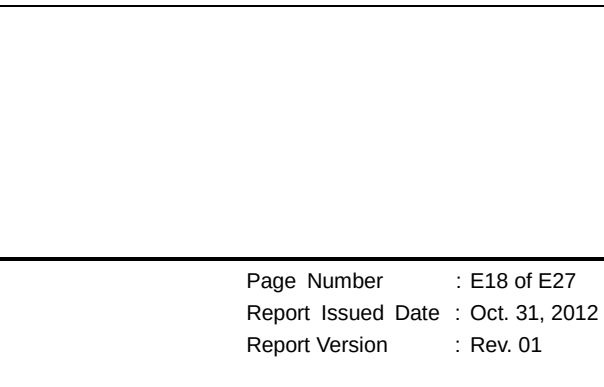
Date: 8.SEP.2012 21:21:21

1RB Size, RB Offset 49, QPSK



Date: 8.SEP.2012 21:21:00

1RB Size, RB Offset 49, 16QAM

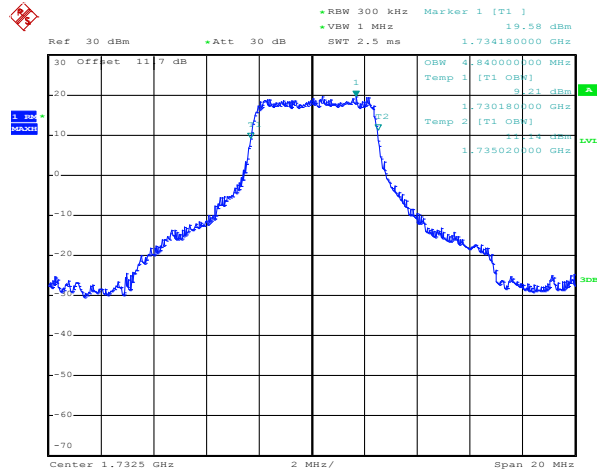


Date: 8.SEP.2012 21:21:21

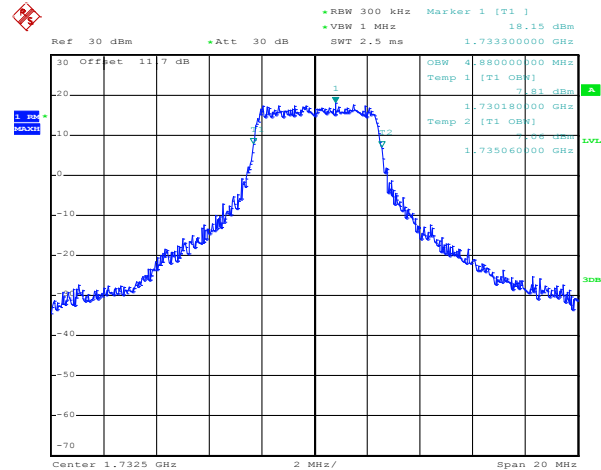


Band 4

Bandwidth 10M

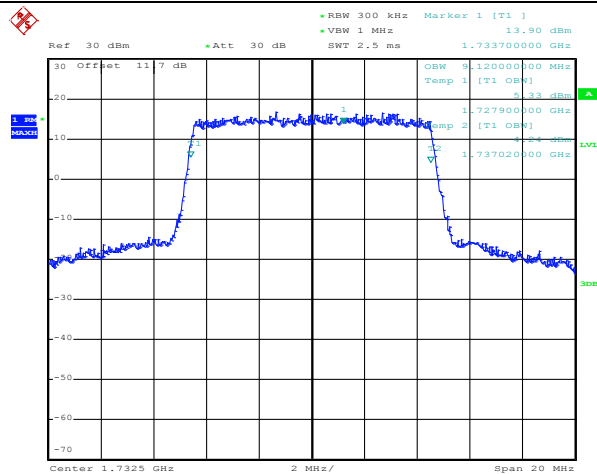


Date: 8.SEP.2012 21:26:19



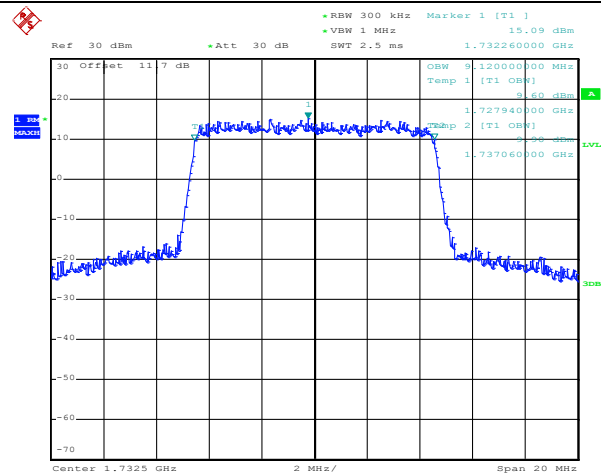
Date: 8.SEP.2012 21:26:36

25RB Size, RB Offset 13, QPSK



Date: 8.SEP.2012 20:41:13

25RB Size, RB Offset 13, 16QAM



Date: 8.SEP.2012 21:19:17

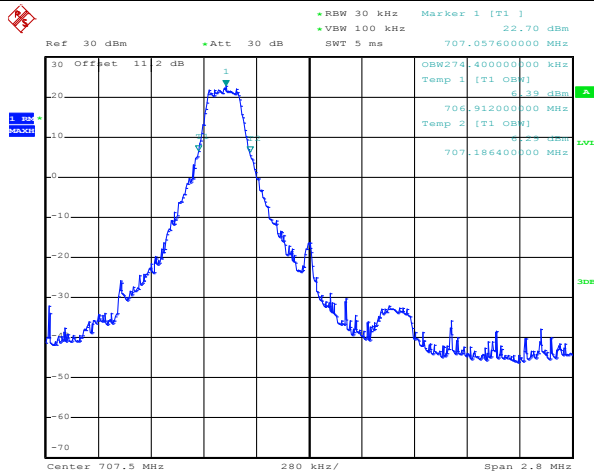
50RB Size, RB Offset 0, QPSK

50RB Size, RB Offset 0, 16QAM

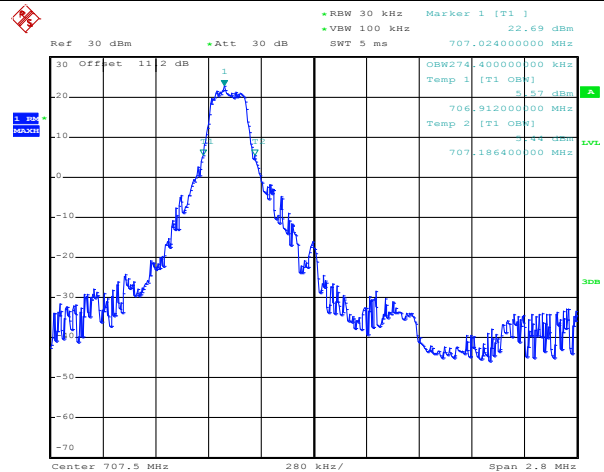


Band 12

Bandwidth 1.4M

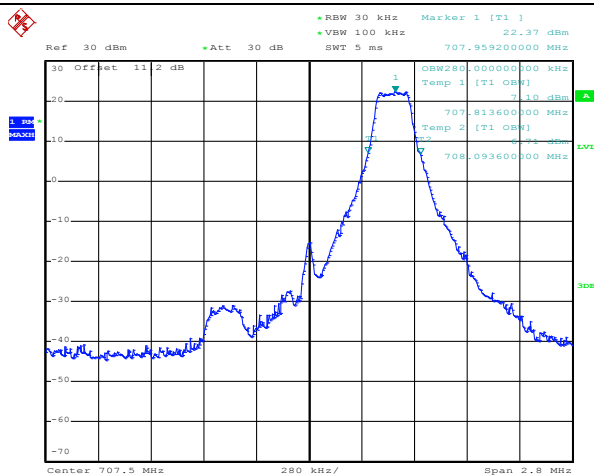


Date: 10.SEP.2012 13:45:14



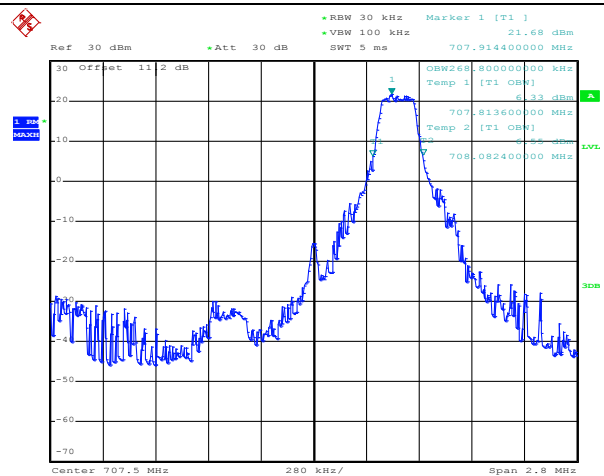
Date: 10.SEP.2012 13:45:28

1RB Size, RB Offset 0, QPSK



Date: 10.SEP.2012 14:13:23

1RB Size, RB Offset 0, 16QAM



Date: 10.SEP.2012 14:13:37

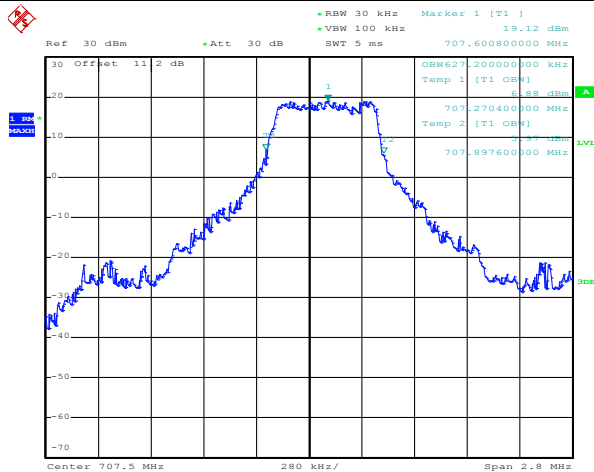
1RB Size, RB Offset 5, QPSK

1RB Size, RB Offset 5, 16QAM

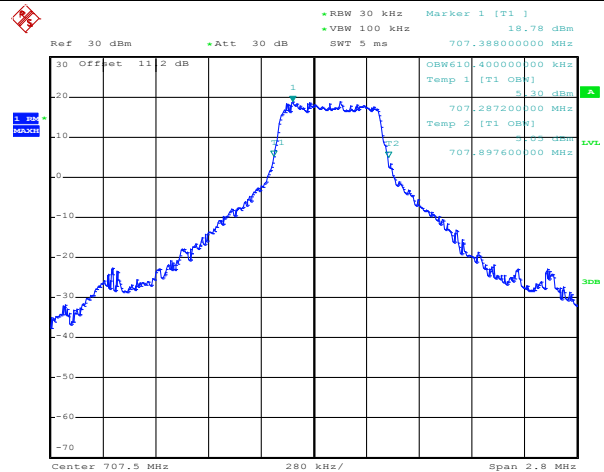


Band 12

Bandwidth 1.4M

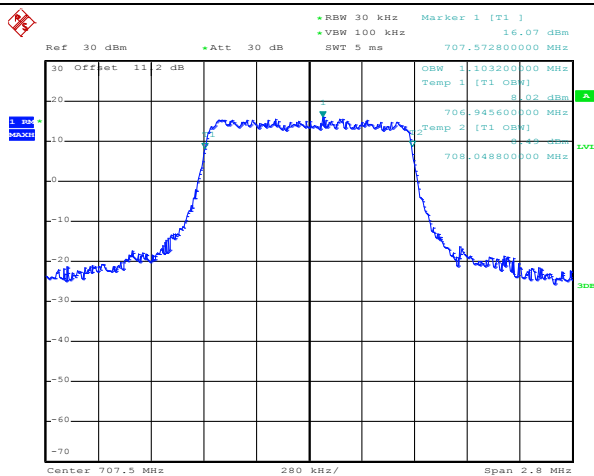


Date: 10.SEP.2012 14:14:12



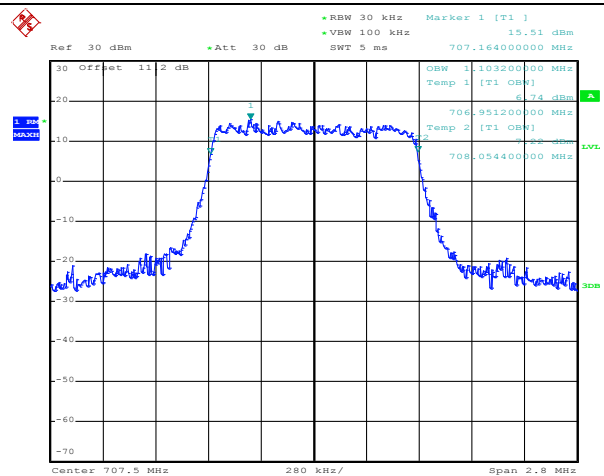
Date: 10.SEP.2012 14:14:50

3RB Size, RB Offset 2, QPSK



Date: 10.SEP.2012 13:44:37

3RB Size, RB Offset 2, 16QAM



Date: 10.SEP.2012 13:44:57

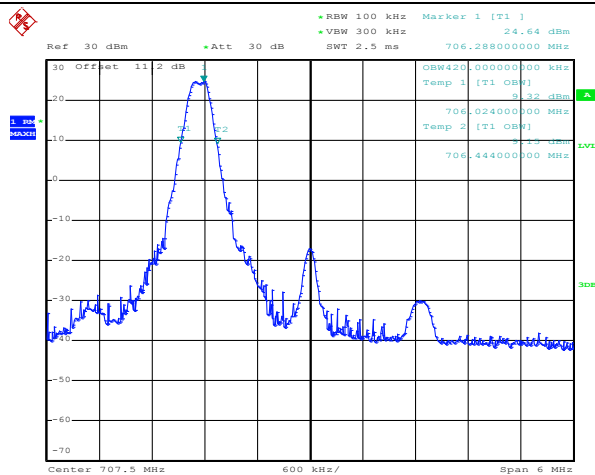
6RB Size, RB Offset 0, QPSK

6RB Size, RB Offset 0, 16QAM

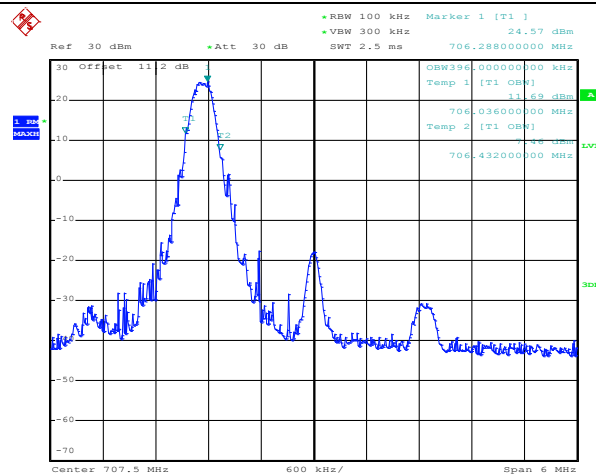


Band 12

Bandwidth 3M

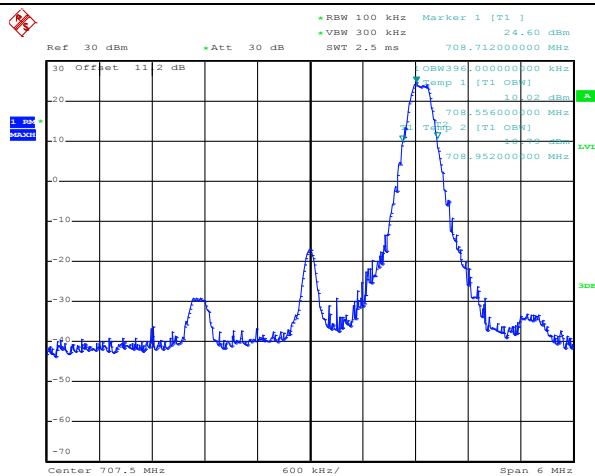


Date: 10.SEP.2012 14:22:15



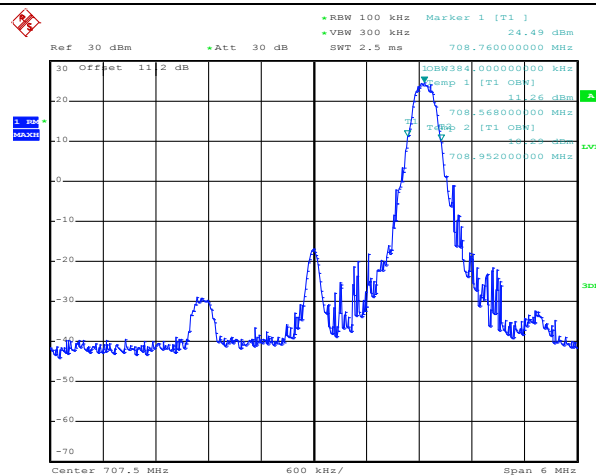
Date: 10.SEP.2012 14:22:26

1RB Size, RB Offset 0, QPSK



Date: 10.SEP.2012 14:22:45

1RB Size, RB Offset 0, 16QAM



Date: 10.SEP.2012 14:22:59

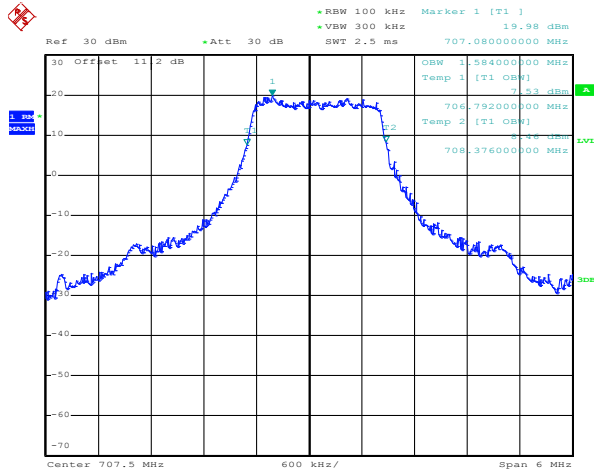
1RB Size, RB Offset 14, QPSK

1RB Size, RB Offset 14, 16QAM

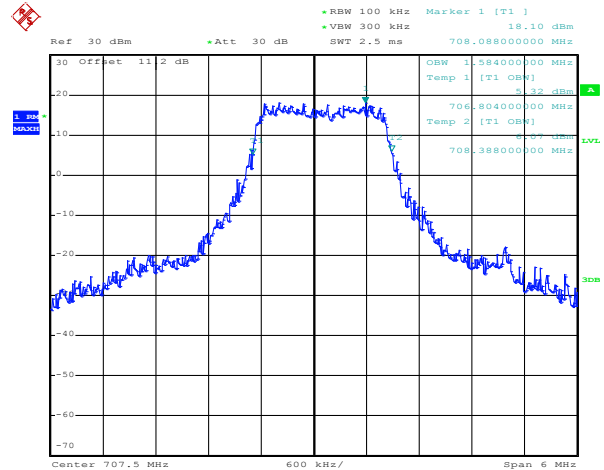


Band 12

Bandwidth 3M

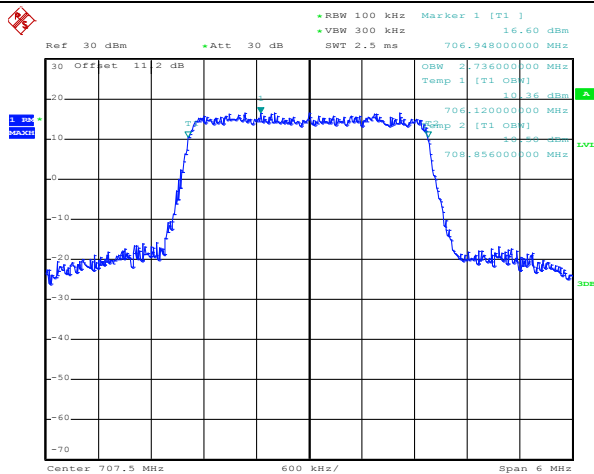


Date: 10.SEP.2012 14:23:52



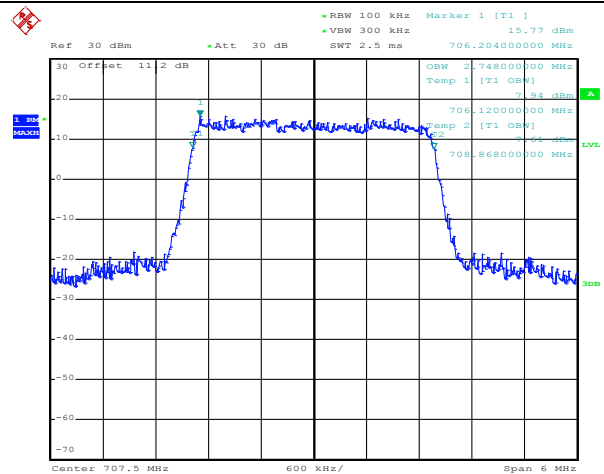
Date: 10.SEP.2012 14:24:03

8RB Size, RB Offset 4, QPSK



Date: 10.SEP.2012 14:20:56

8RB Size, RB Offset 4, 16QAM



Date: 10.SEP.2012 14:21:09

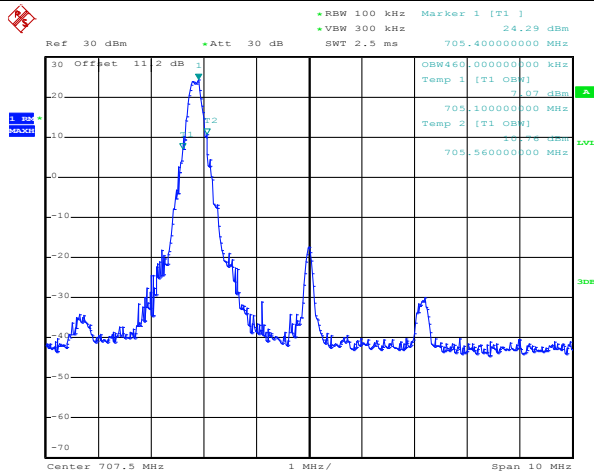
15RB Size, RB Offset 0, QPSK

15RB Size, RB Offset 0, 16QAM

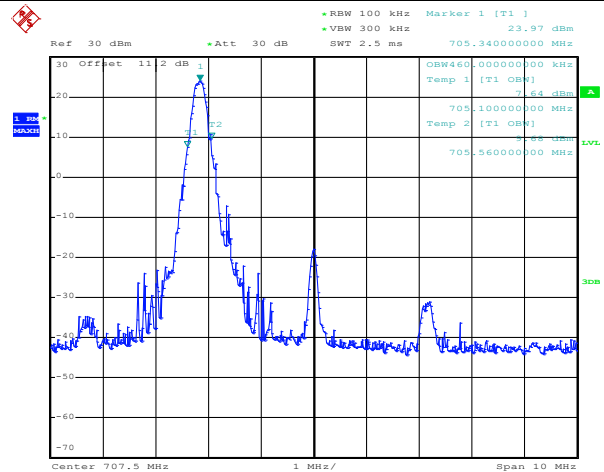


Band 12

Bandwidth 5M

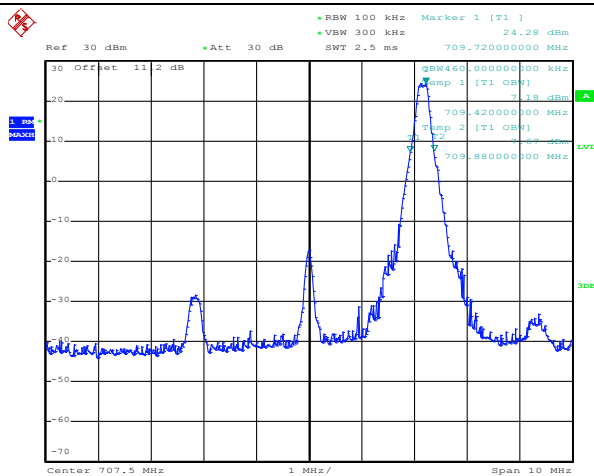


Date: 10.SEP.2012 14:25:54



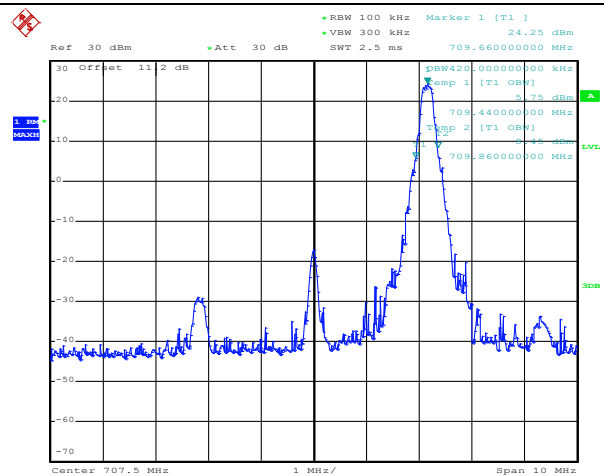
Date: 10.SEP.2012 14:26:09

1RB Size, RB Offset 0, QPSK



Date: 10.SEP.2012 14:27:16

1RB Size, RB Offset 0, 16QAM



Date: 10.SEP.2012 14:26:46

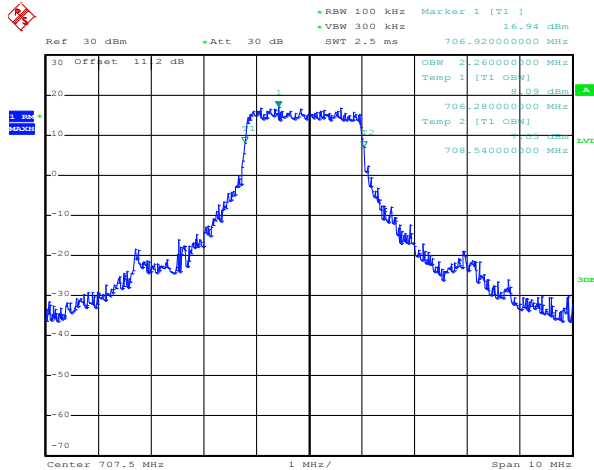
1RB Size, RB Offset 24, QPSK

1RB Size, RB Offset 24, 16QAM

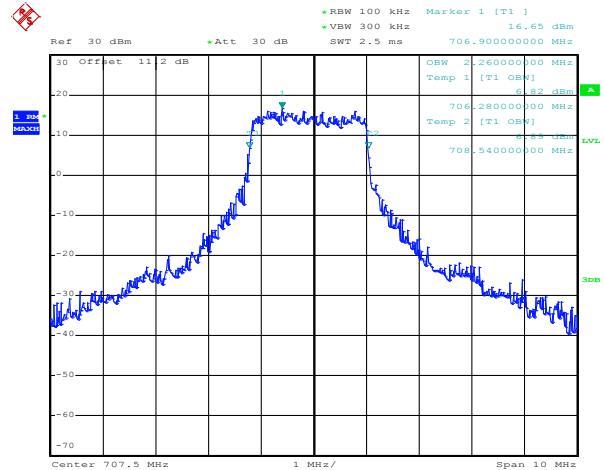


Band 12

Bandwidth 5M

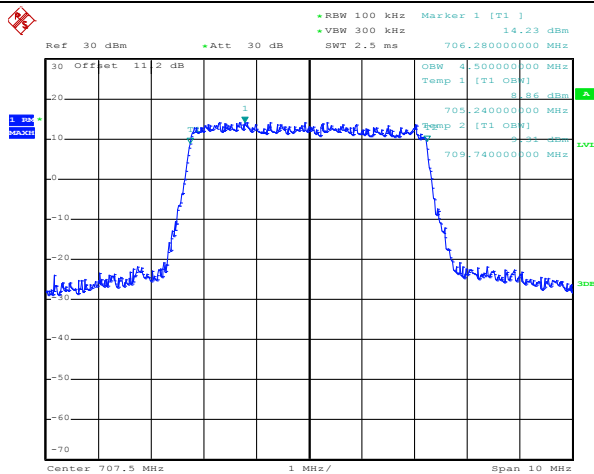


Date: 10.SEP.2012 14:27:54



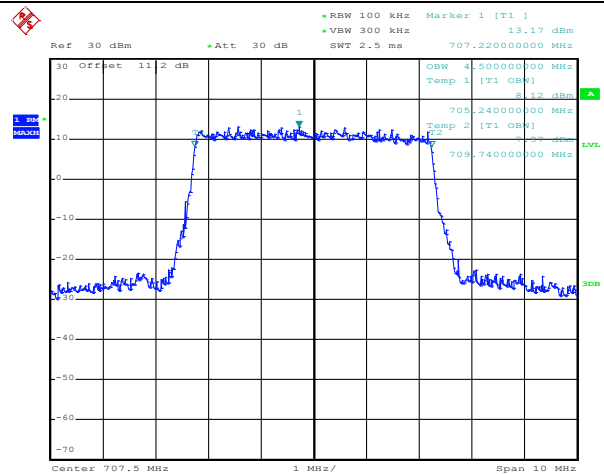
Date: 10.SEP.2012 14:28:11

12RB Size, RB Offset 6, QPSK



Date: 10.SEP.2012 14:25:15

12RB Size, RB Offset 6, 16QAM



Date: 10.SEP.2012 14:25:35

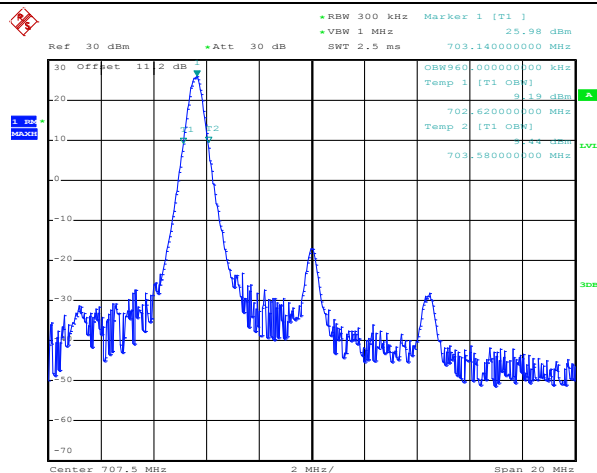
25RB Size, RB Offset 0, QPSK

25RB Size, RB Offset 0, 16QAM

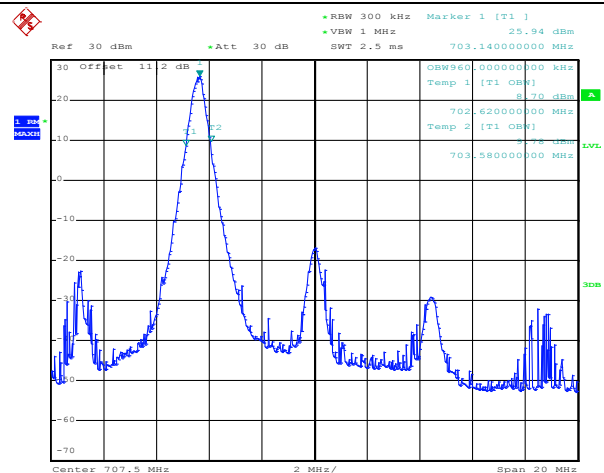


Band 12

Bandwidth 10M

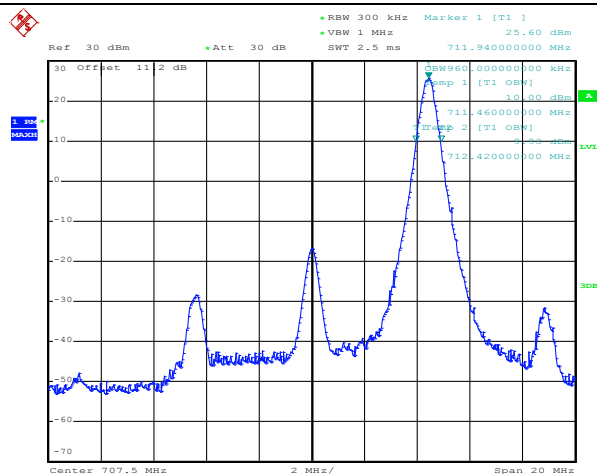


Date: 10.SEP.2012 14:31:32



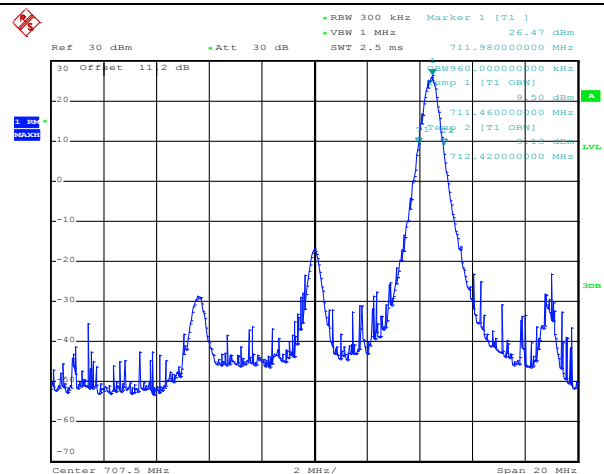
Date: 10.SEP.2012 14:30:31

1RB Size, RB Offset 0, QPSK



Date: 10.SEP.2012 14:32:46

1RB Size, RB Offset 0, 16QAM

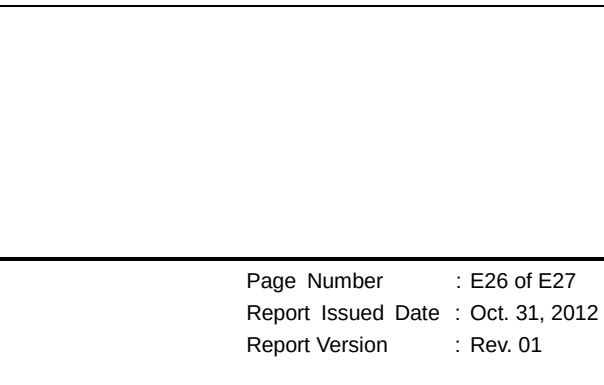


Date: 10.SEP.2012 14:32:59

1RB Size, RB Offset 49, QPSK



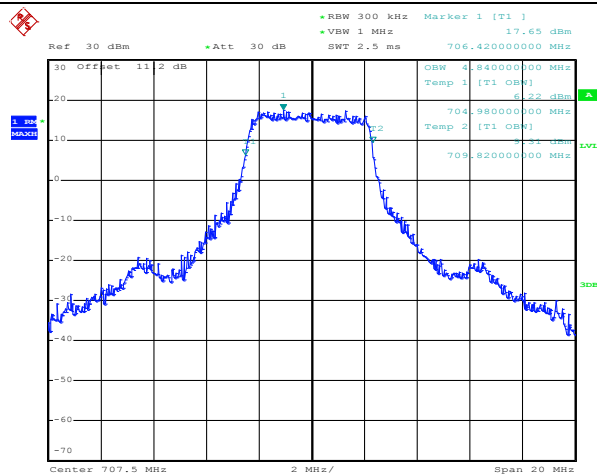
1RB Size, RB Offset 49, 16QAM



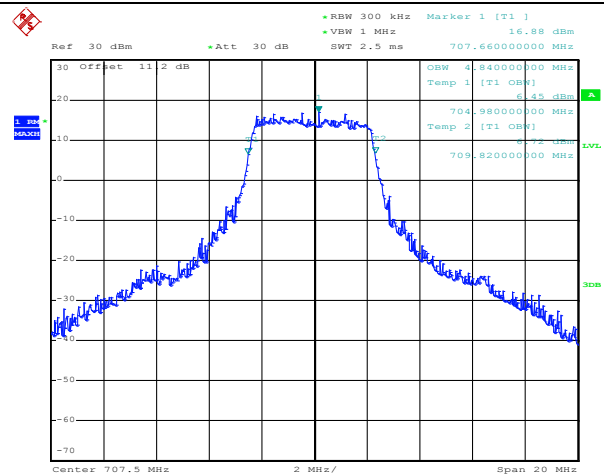


Band 12

Bandwidth 10M

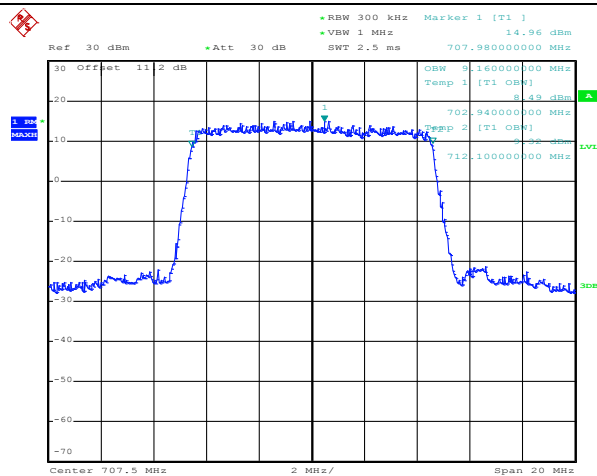


Date: 10.SEP.2012 14:33:26



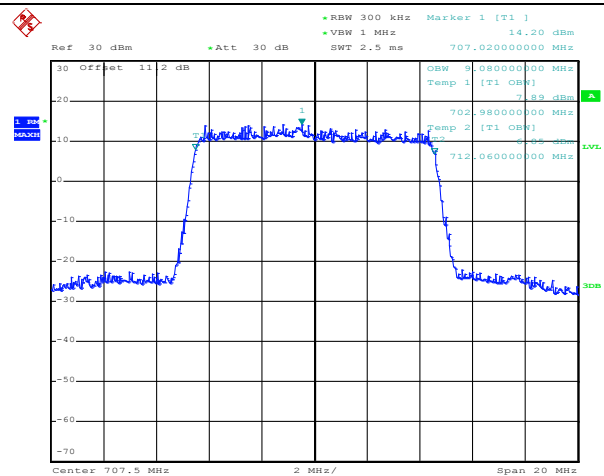
Date: 10.SEP.2012 14:33:40

25RB Size, RB Offset 13, QPSK



Date: 10.SEP.2012 14:29:30

25RB Size, RB Offset 13, 16QAM



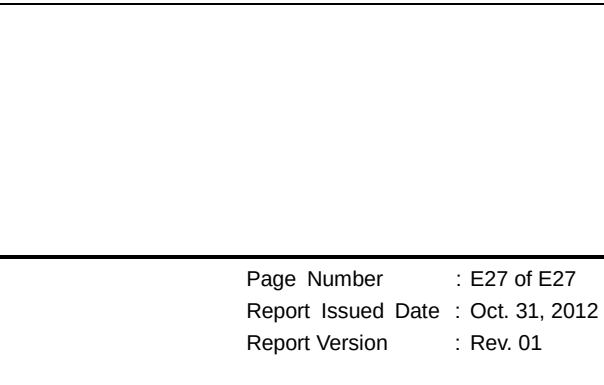
Date: 10.SEP.2012 14:29:49

50RB Size, RB Offset 0, QPSK



Date: 10.SEP.2012 14:29:30

50RB Size, RB Offset 0, 16QAM



Date: 10.SEP.2012 14:29:49