



## LTE Band 4

### Peak-to-Average Ratio

Mode	LTE Band 4 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.61	4.72	5.3	5.8	<b>PASS</b>
Middle CH	4.09	4.81	4.72	5.68	
Highest CH	4.35	5.04	4.9	6.03	



LTE Band 4 / 20MHz / QPSK

Lowest Channel / 1RB



Date: 15\_JUL\_2016 19:15:13

Lowest Channel / Full RB



Date: 15\_JUL\_2016 19:15:24

Middle Channel / 1RB



Date: 15\_JUL\_2016 19:15:06

Middle Channel / Full RB



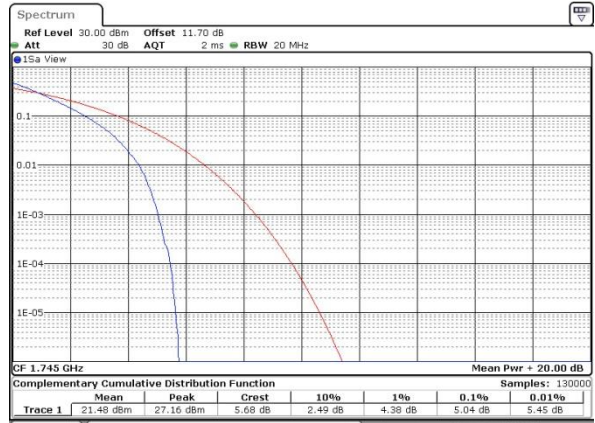
Date: 15\_JUL\_2016 19:15:47

Highest Channel / 1RB



Date: 15\_JUL\_2016 19:15:58

Highest Channel / Full RB



Date: 15\_JUL\_2016 19:16:09



LTE Band 4 / 20MHz / 16QAM

Lowest Channel / 1RB



Date: 15\_JUL\_2016 19:13:39

Lowest Channel / Full RB



Date: 15\_JUL\_2016 19:13:51

Middle Channel / 1RB



Date: 15\_JUL\_2016 19:14:23

Middle Channel / Full RB



Date: 15\_JUL\_2016 19:14:39

Highest Channel / 1RB



Date: 15\_JUL\_2016 19:14:51

Highest Channel / Full RB



Date: 15\_JUL\_2016 19:15:02



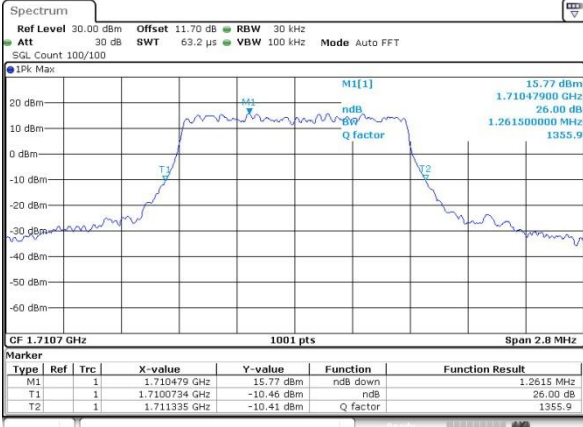
**26dB Bandwidth**

Mode	LTE Band 4 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.262	1.239	3.051	2.991	5.065	4.845	10.03	9.79	14.595	14.386	20.1	20.1
Middle CH	1.278	1.27	3.033	3.033	4.775	5.015	9.93	9.85	14.386	14.535	20.18	20.1
Highest CH	1.281	1.284	3.009	2.973	4.985	5.025	9.75	9.75	14.505	14.266	20.18	20.42



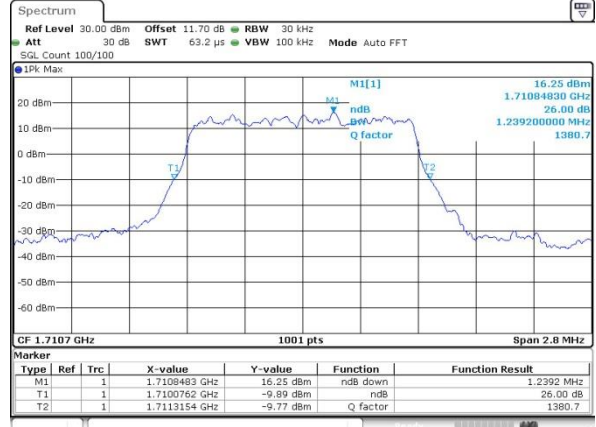
LTE Band 4

Lowest Channel / 1.4MHz / QPSK



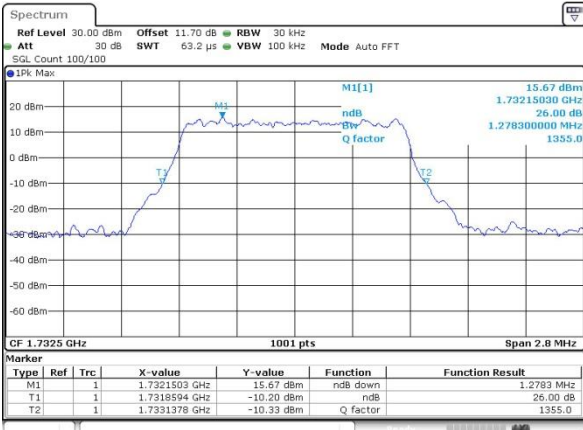
Date: 15\_JUL\_2016 15:55:22

Lowest Channel / 1.4MHz / 16QAM



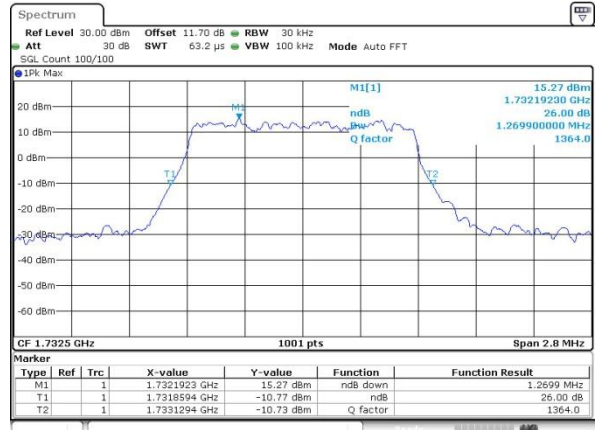
Date: 15\_JUL\_2016 15:55:34

Middle Channel / 1.4MHz / QPSK



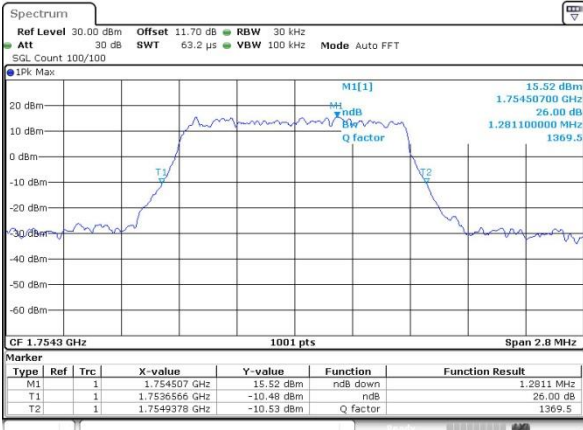
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Middle Channel / 1.4MHz / 16QAM



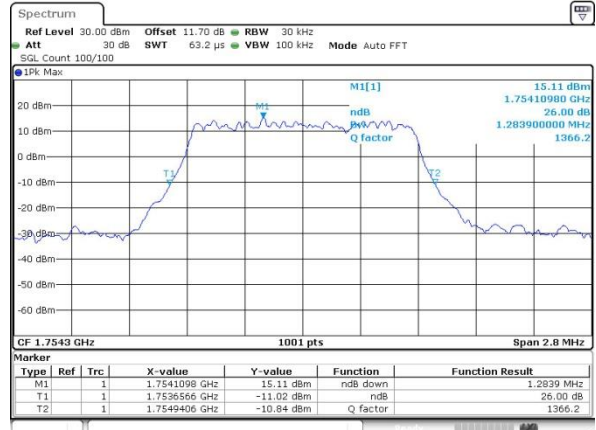
Date: 15\_JUL\_2016 16:02:55

Highest Channel / 1.4MHz / QPSK



Date: 15\_JUL\_2016 16:05:27

Highest Channel / 1.4MHz / 16QAM

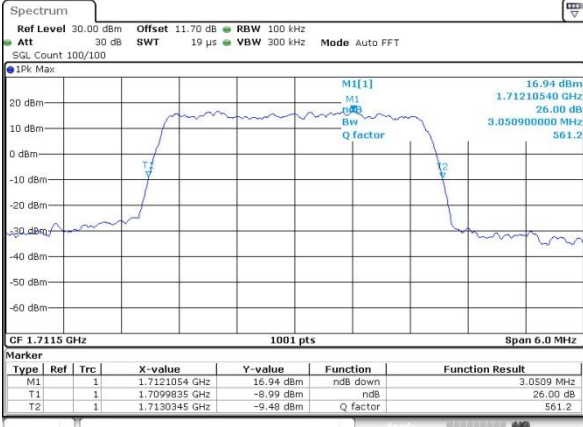


Date: 15\_JUL\_2016 16:05:38



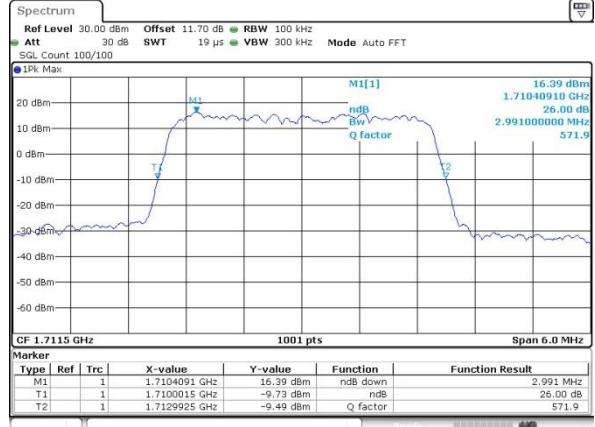
LTE Band 4

Lowest Channel / 3MHz / QPSK



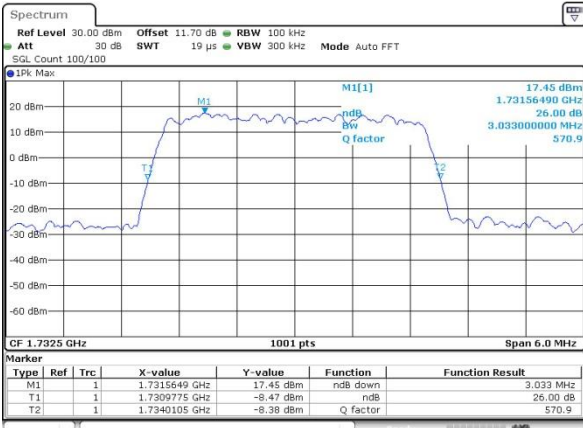
Date: 15\_JUL\_2016 16:12:48

Lowest Channel / 3MHz / 16QAM



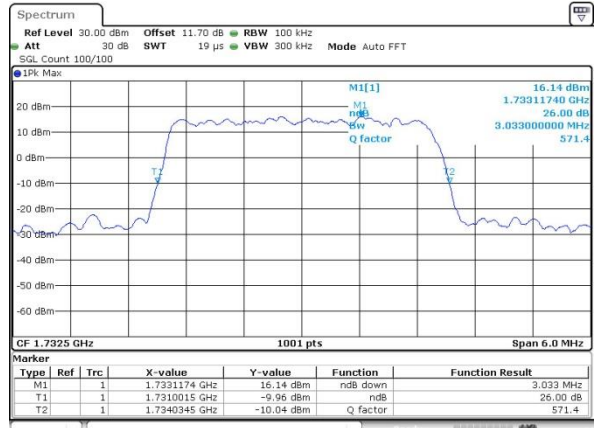
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Middle Channel / 3MHz / QPSK



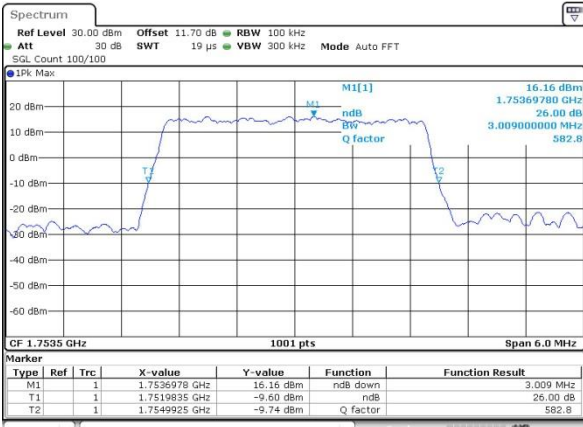
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Middle Channel / 3MHz / 16QAM



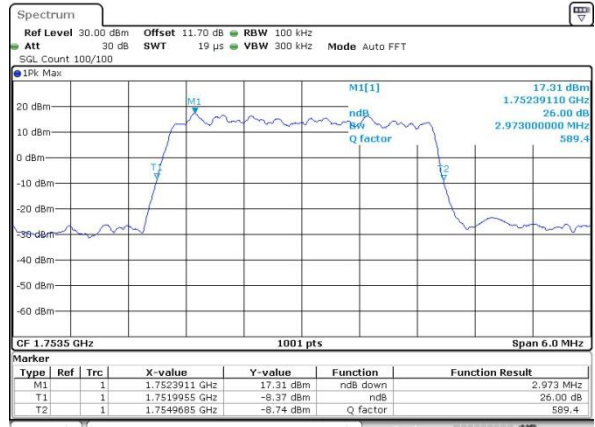
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Highest Channel / 3MHz / QPSK



Date: 15\_JUL\_2016 16:22:52

Highest Channel / 3MHz / 16QAM

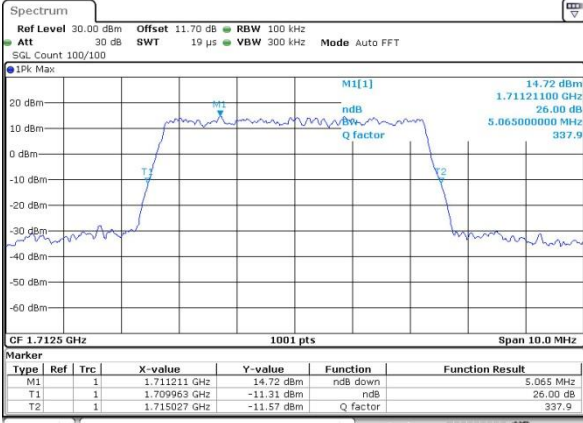


Date: 15\_JUL\_2016 16:23:04



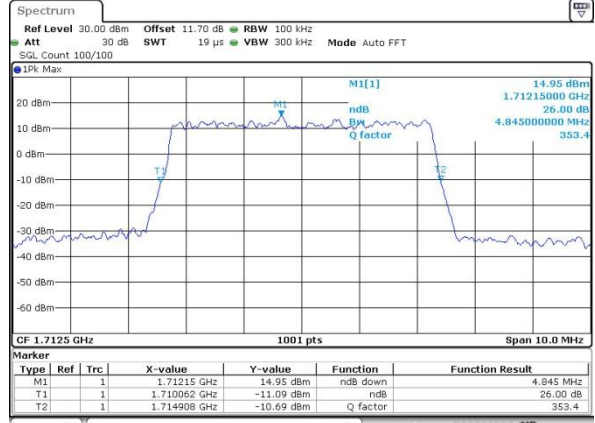
LTE Band 4

Lowest Channel / 5MHz / QPSK



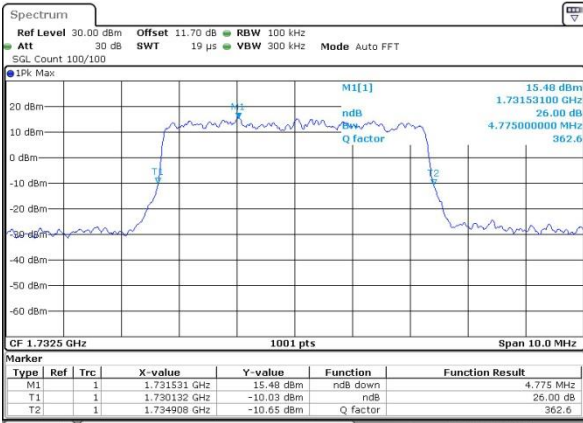
Date: 15\_JUL\_2016 16:30:14

Lowest Channel / 5MHz / 16QAM



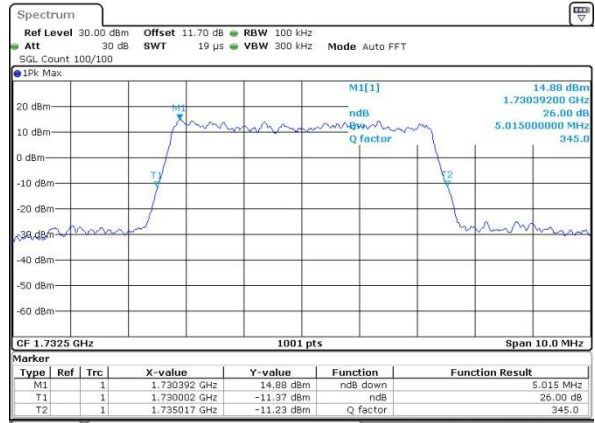
Date: 15\_JUL\_2016 16:30:25

Middle Channel / 5MHz / QPSK



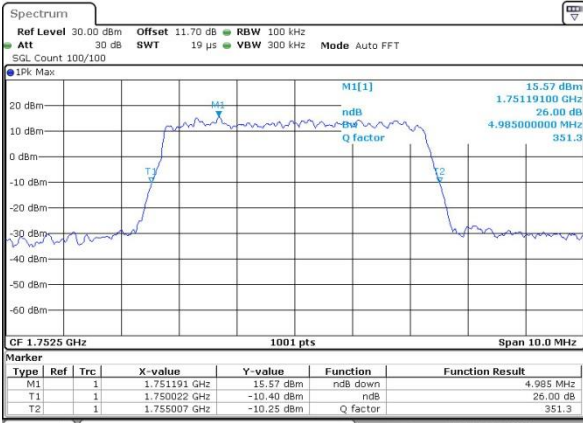
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Middle Channel / 5MHz / 16QAM



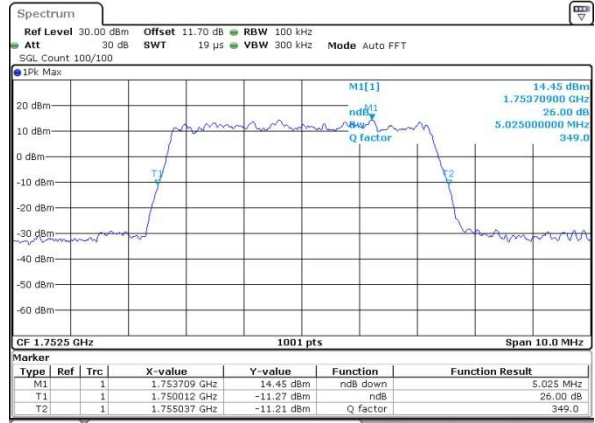
Date: 15\_JUL\_2016 16:37:46

Highest Channel / 5MHz / QPSK



Date: 15\_JUL\_2016 16:40:17

Highest Channel / 5MHz / 16QAM

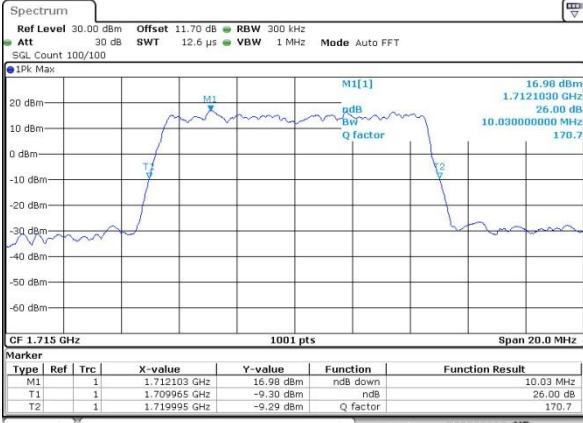


Date: 15\_JUL\_2016 16:40:28



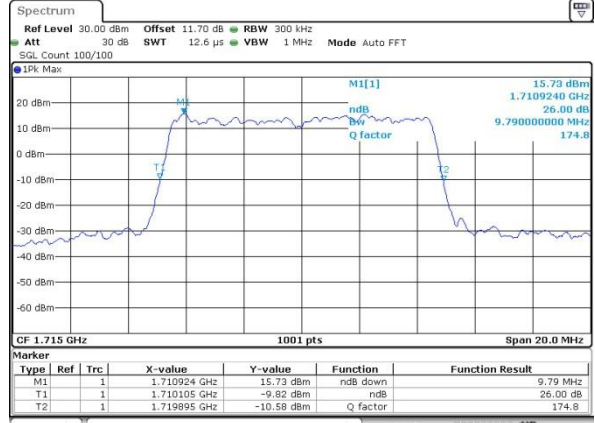
LTE Band 4

Lowest Channel / 10MHz / QPSK



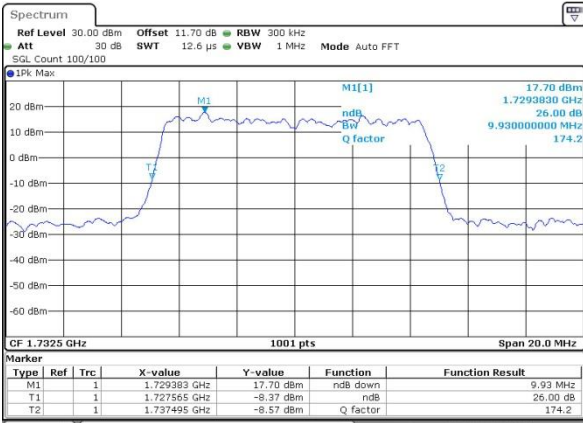
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Lowest Channel / 10MHz / 16QAM



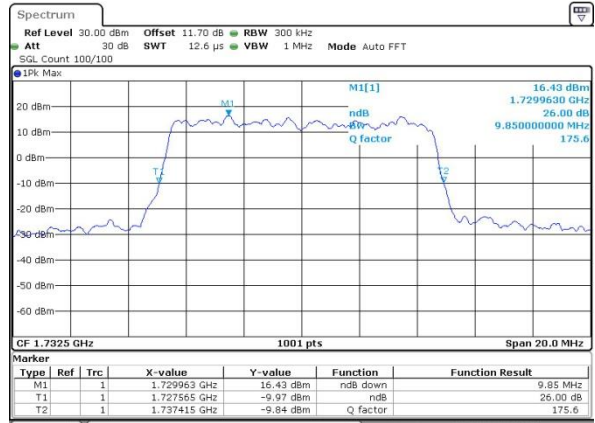
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Middle Channel / 10MHz / QPSK



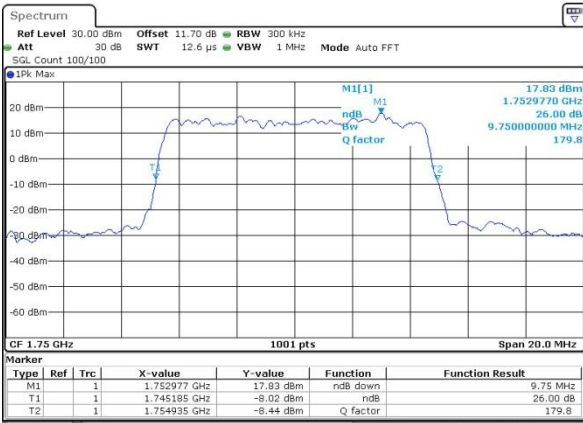
Date: 15\_JUL\_2016 16:54:57

Middle Channel / 10MHz / 16QAM



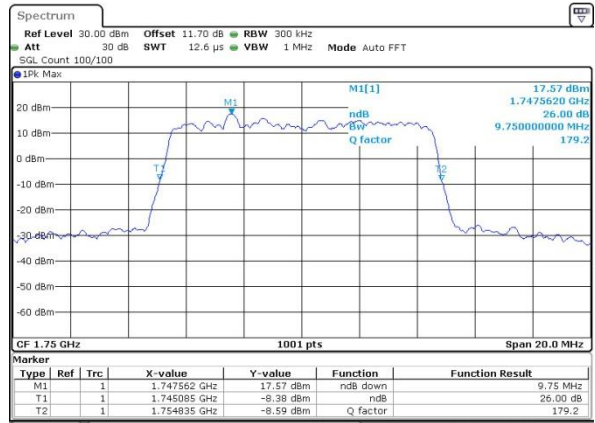
Date: 15\_JUL\_2016 16:55:09

Highest Channel / 10MHz / QPSK



Date: 15\_JUL\_2016 17:54:25

Highest Channel / 10MHz / 16QAM

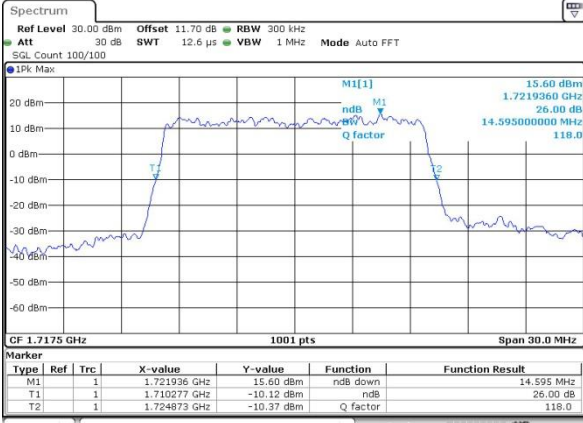


Date: 15\_JUL\_2016 17:54:36



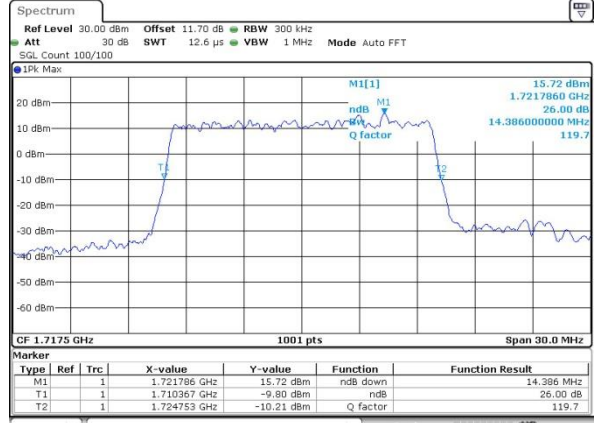
LTE Band 4

Lowest Channel / 15MHz / QPSK



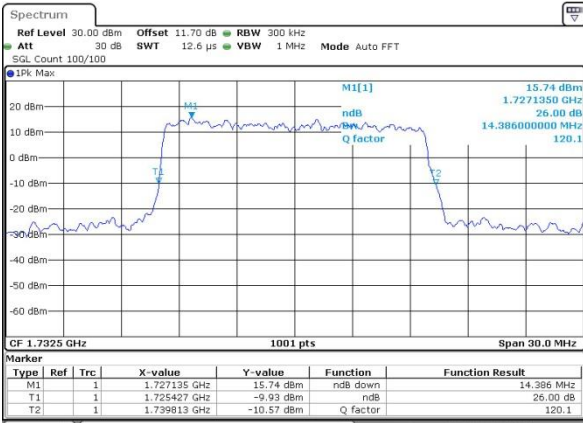
Date: 15\_JUL\_2016 18:01:50

Lowest Channel / 15MHz / 16QAM



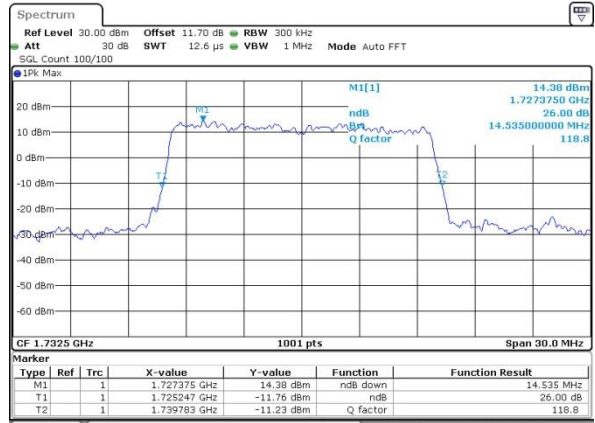
Date: 15\_JUL\_2016 18:02:02

Middle Channel / 15MHz / QPSK



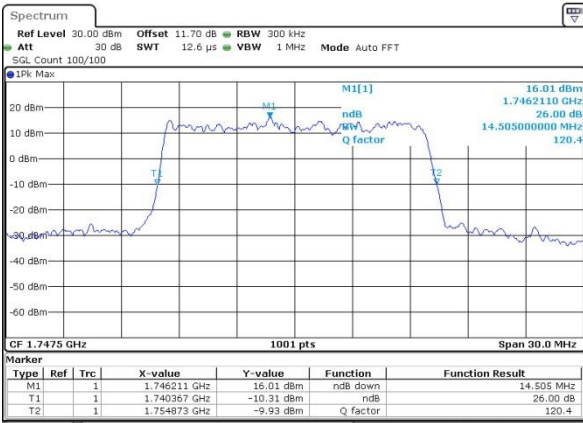
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Middle Channel / 15MHz / 16QAM



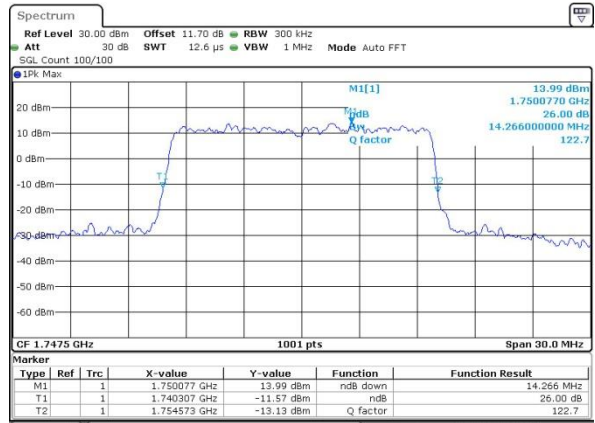
Date: 15\_JUL\_2016 18:09:26

Highest Channel / 15MHz / QPSK



Date: 15\_JUL\_2016 18:11:58

Highest Channel / 15MHz / 16QAM

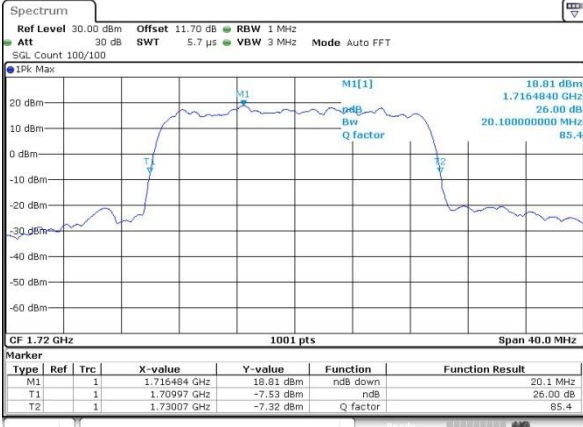


Date: 15\_JUL\_2016 18:12:10



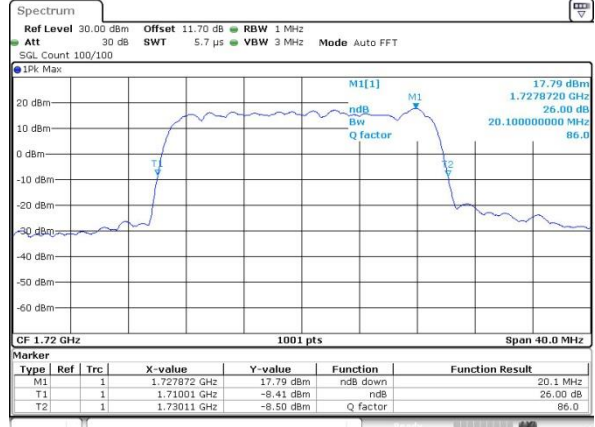
LTE Band 4

Lowest Channel / 20MHz / QPSK



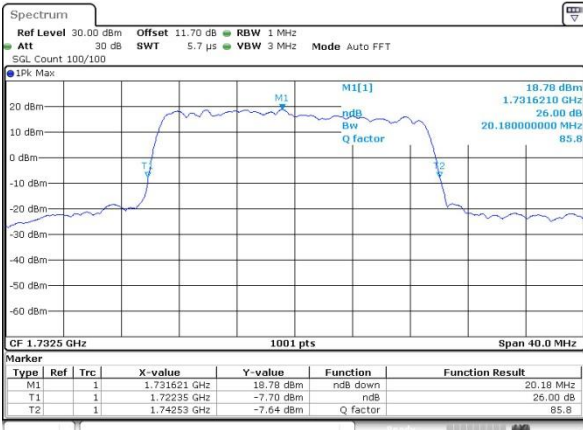
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Lowest Channel / 20MHz / 16QAM



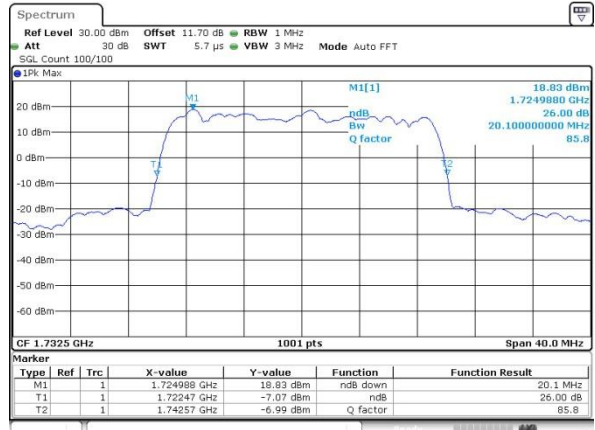
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Middle Channel / 20MHz / QPSK



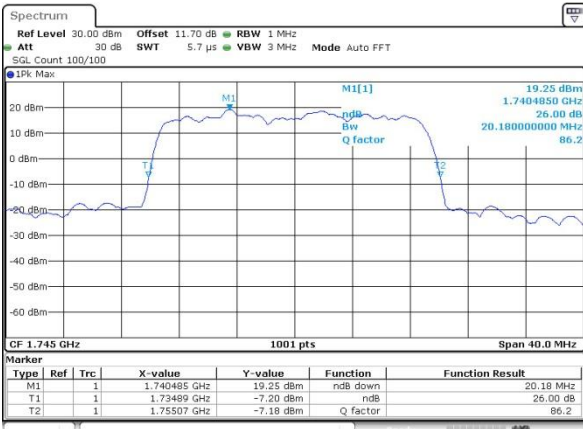
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Middle Channel / 20MHz / 16QAM



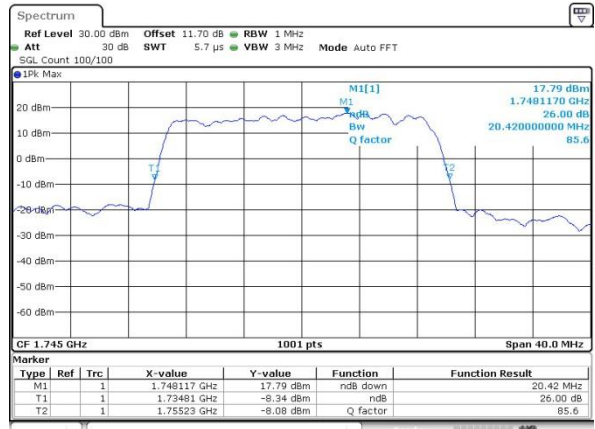
Date: 15\_JUL\_2016 18:32:17

Highest Channel / 20MHz / QPSK



Date: 15\_JUL\_2016 18:34:49

Highest Channel / 20MHz / 16QAM



Date: 15\_JUL\_2016 18:35:00



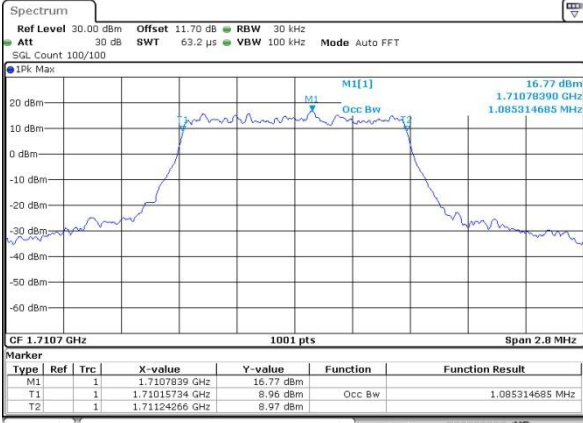
### Occupied Bandwidth

Mode	LTE Band 4 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.09	1.09	2.71	2.72	4.49	4.5	9.07	9.11	13.52	13.46	18.3	18.22
Middle CH	1.1	1.09	2.72	2.73	4.49	4.48	9.07	9.01	13.52	13.46	18.38	18.26
Highest CH	1.09	1.09	2.72	2.72	4.5	4.49	9.11	8.99	13.46	13.37	18.3	18.38



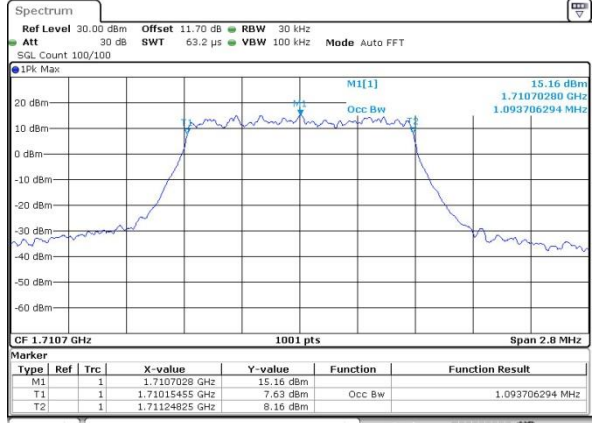
LTE Band 4

Lowest Channel / 1.4MHz / QPSK



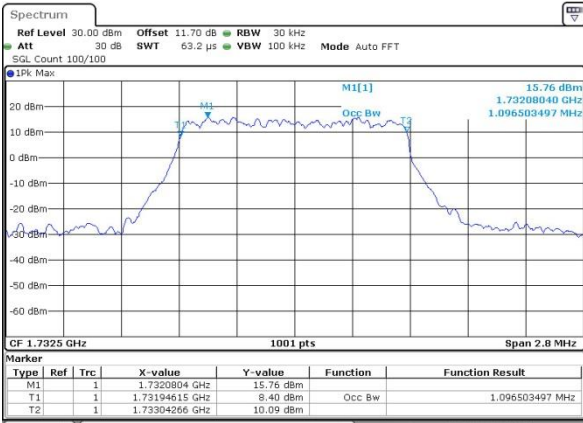
Date: 15\_JUL.2016 15:54:59

Lowest Channel / 1.4MHz / 16QAM



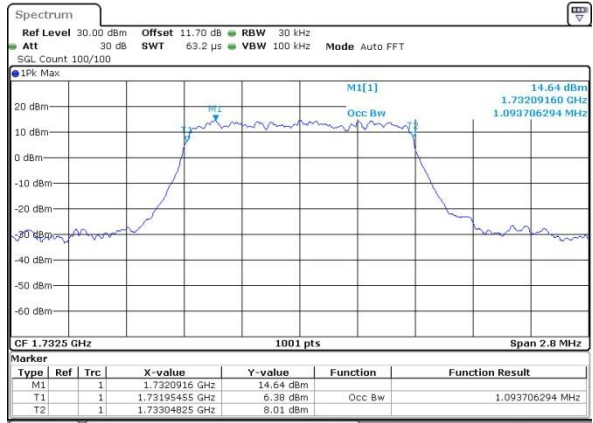
Date: 15\_JUL.2016 15:55:10

Middle Channel / 1.4MHz / QPSK



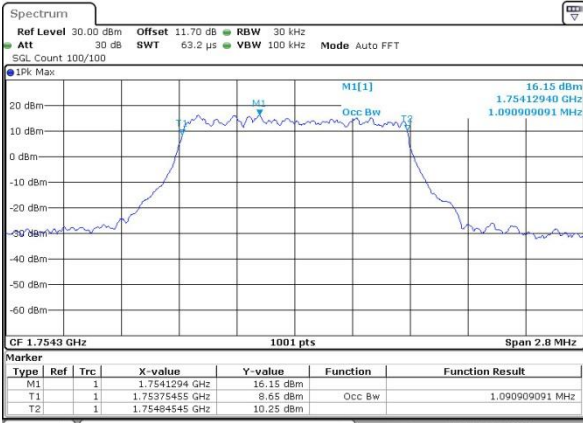
Date: 15\_JUL.2016 16:02:20

Middle Channel / 1.4MHz / 16QAM



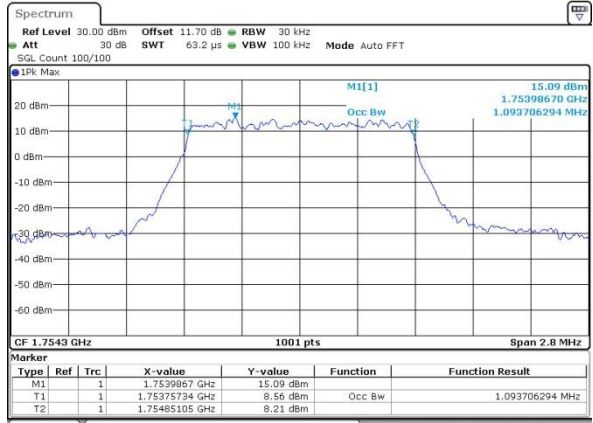
Date: 15\_JUL.2016 16:02:33

Highest Channel / 1.4MHz / QPSK



Date: 15\_JUL.2016 16:05:03

Highest Channel / 1.4MHz / 16QAM

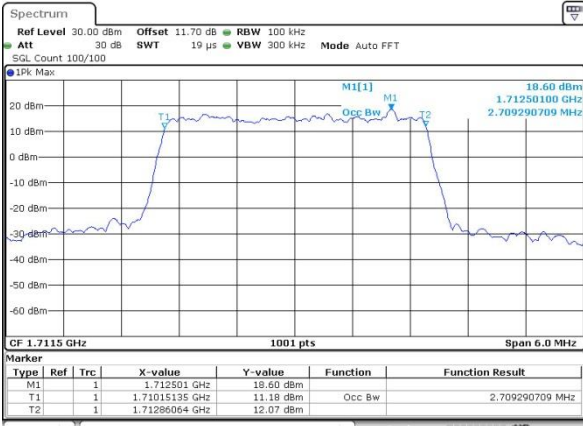


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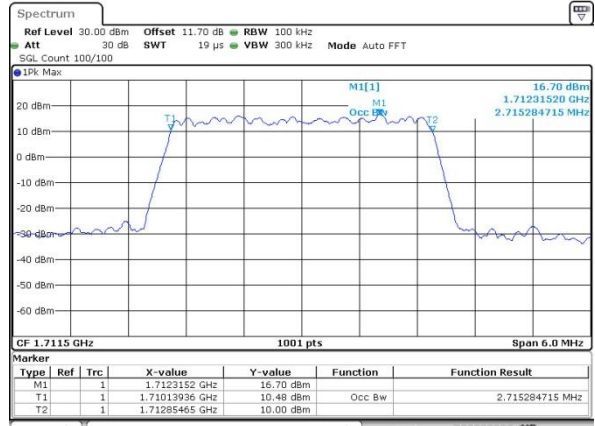
LTE Band 4

Lowest Channel / 3MHz / QPSK



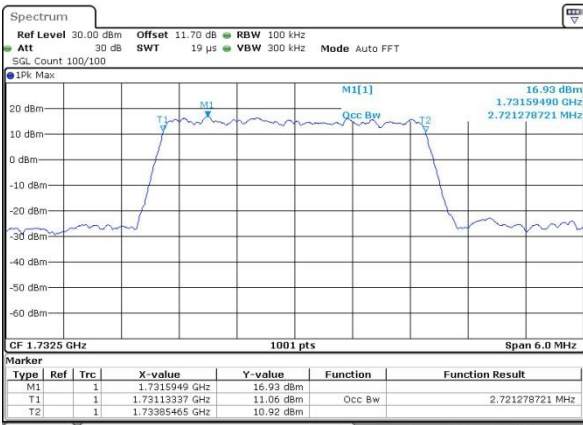
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Lowest Channel / 3MHz / 16QAM



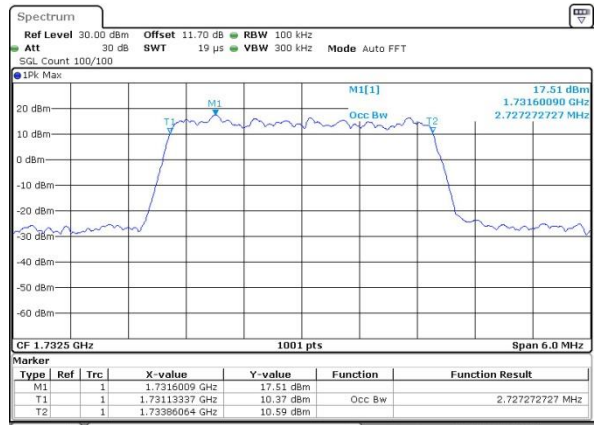
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Middle Channel / 3MHz / QPSK



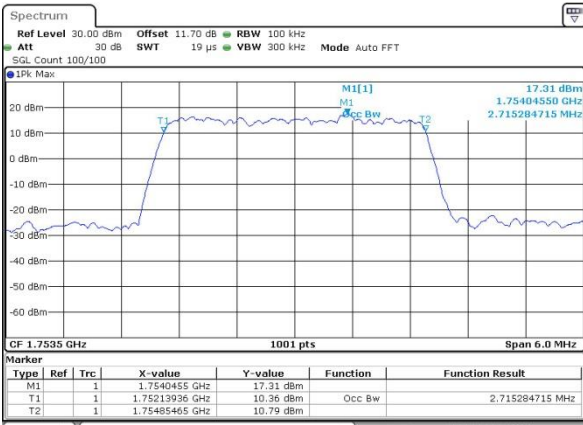
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Middle Channel / 3MHz / 16QAM



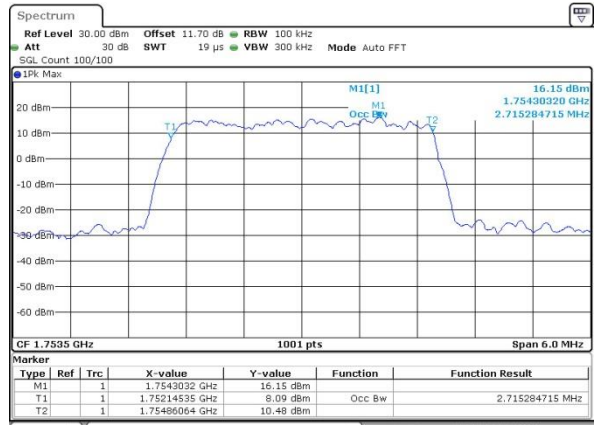
Date: 15\_JUL\_2016 16:19:58

Highest Channel / 3MHz / QPSK



Date: 15\_JUL\_2016 16:22:29

Highest Channel / 3MHz / 16QAM

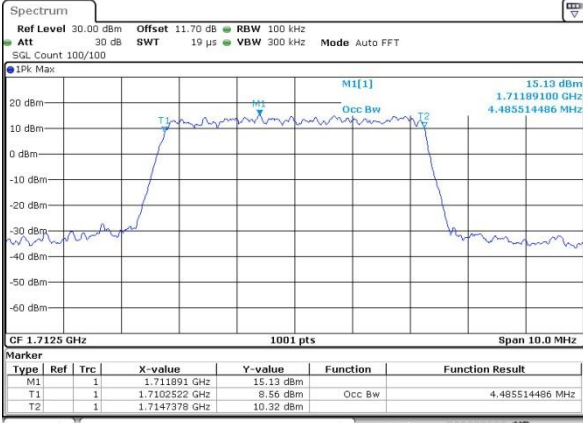


Date: 15\_JUL\_2016 16:22:41



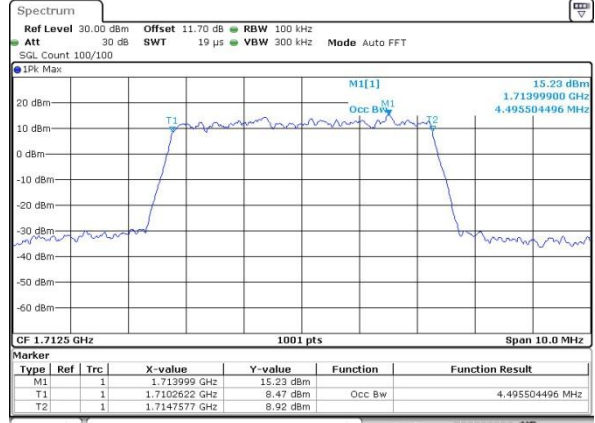
LTE Band 4

Lowest Channel / 5MHz / QPSK



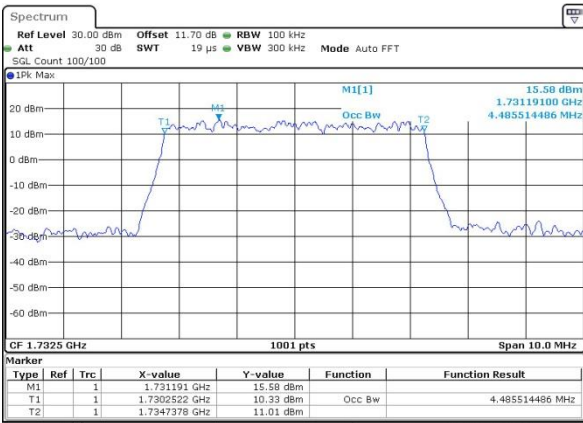
Date: 15\_JUL\_2016 16:29:50

Lowest Channel / 5MHz / 16QAM



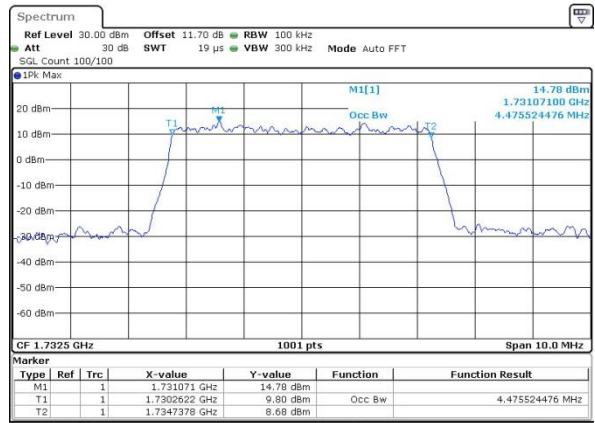
Date: 15\_JUL\_2016 16:30:02

Middle Channel / 5MHz / QPSK



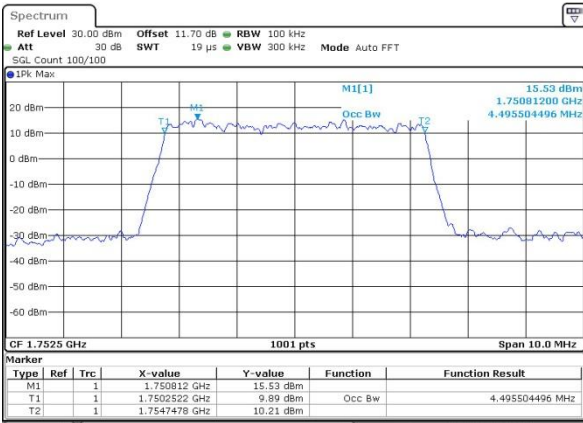
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Middle Channel / 5MHz / 16QAM



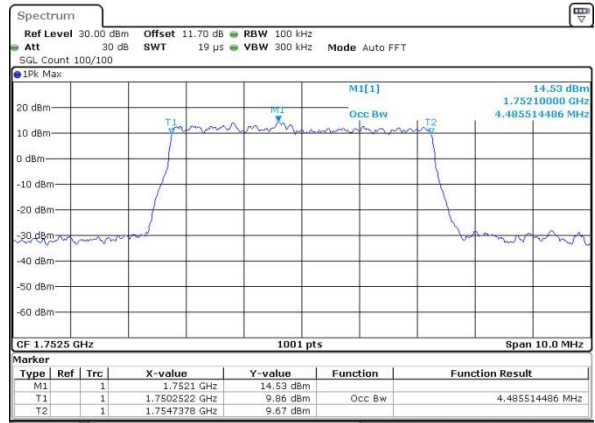
Date: 15\_JUL\_2016 16:37:22

Highest Channel / 5MHz / QPSK



Date: 15\_JUL\_2016 16:39:54

Highest Channel / 5MHz / 16QAM

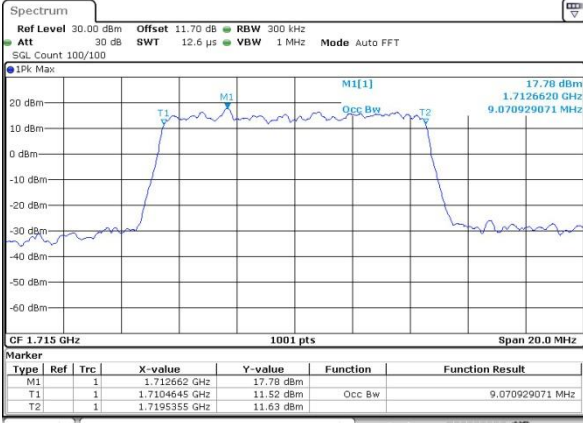


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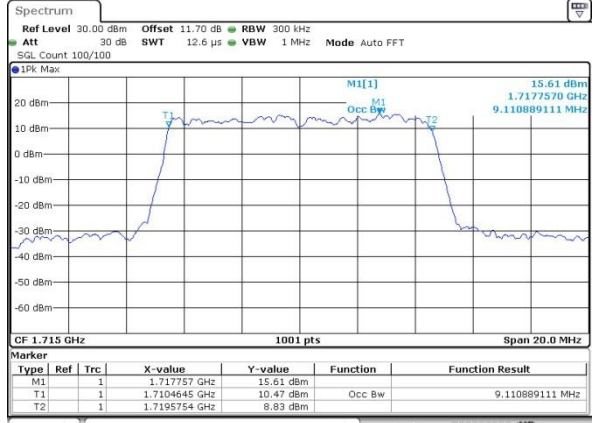
LTE Band 4

Lowest Channel / 10MHz / QPSK



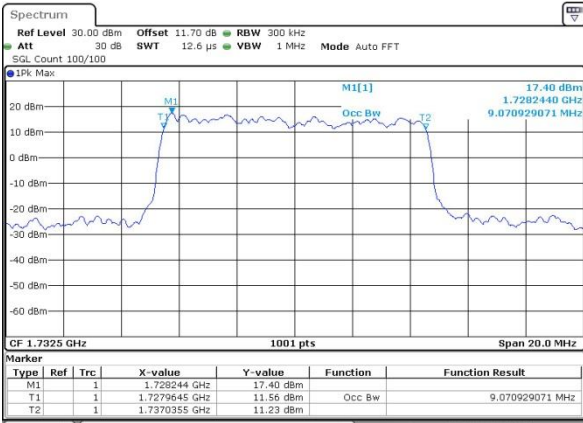
Date: 15\_JUL\_2016 16:47:14

Lowest Channel / 10MHz / 16QAM



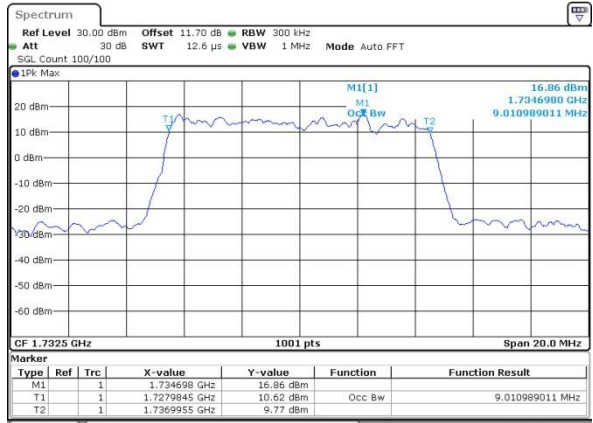
Date: 15\_JUL\_2016 16:47:25

Middle Channel / 10MHz / QPSK



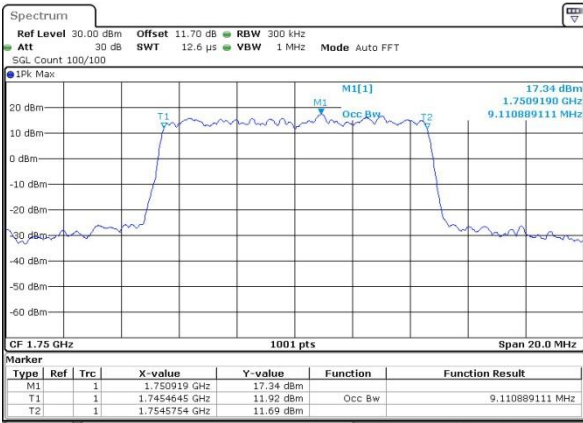
Date: 15\_JUL\_2016 16:54:34

Middle Channel / 10MHz / 16QAM



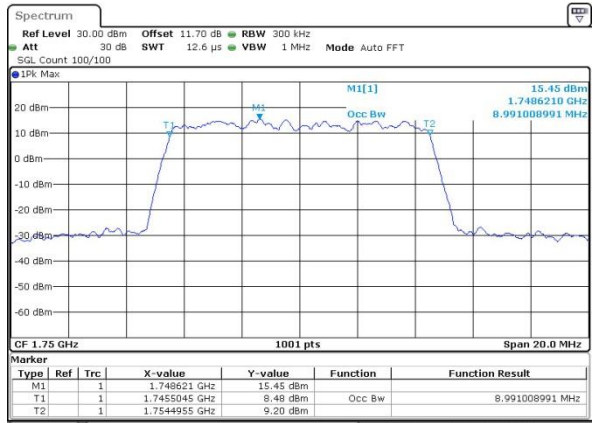
Date: 15\_JUL\_2016 16:54:45

Highest Channel / 10MHz / QPSK



Date: 15\_JUL\_2016 17:54:01

Highest Channel / 10MHz / 16QAM

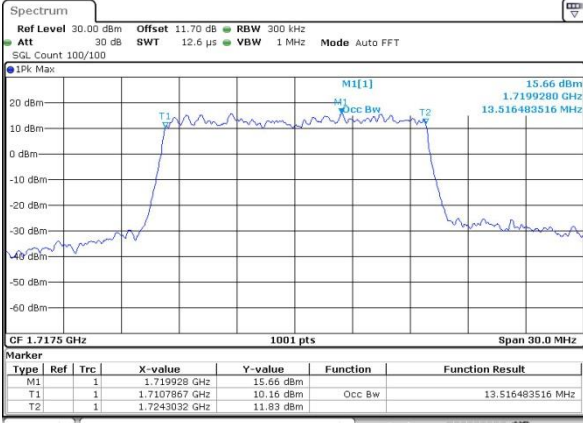


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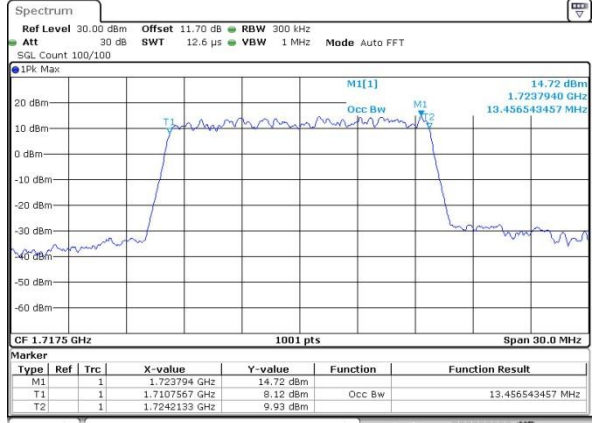
LTE Band 4

Lowest Channel / 15MHz / QPSK



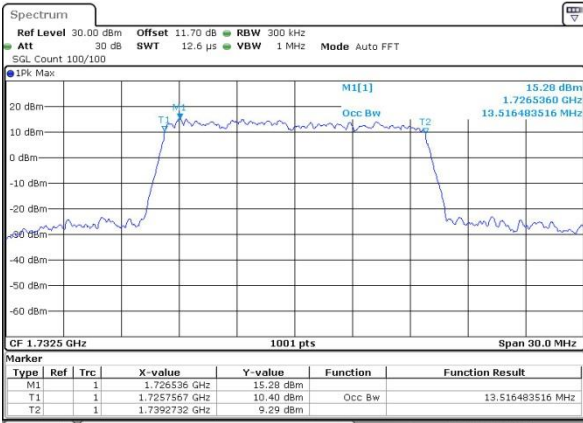
Date: 15\_JUL\_2016 18:01:26

Lowest Channel / 15MHz / 16QAM



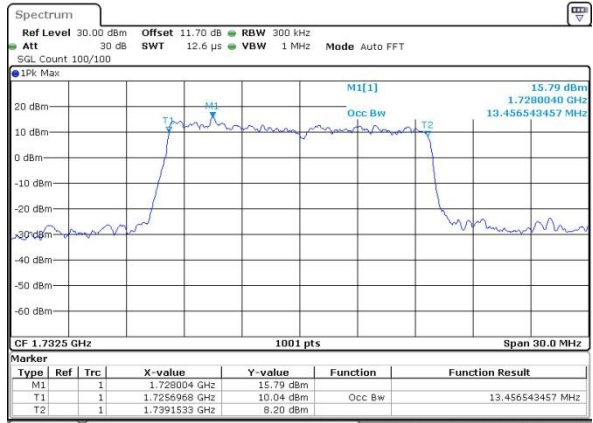
Date: 15\_JUL\_2016 18:01:38

Middle Channel / 15MHz / QPSK



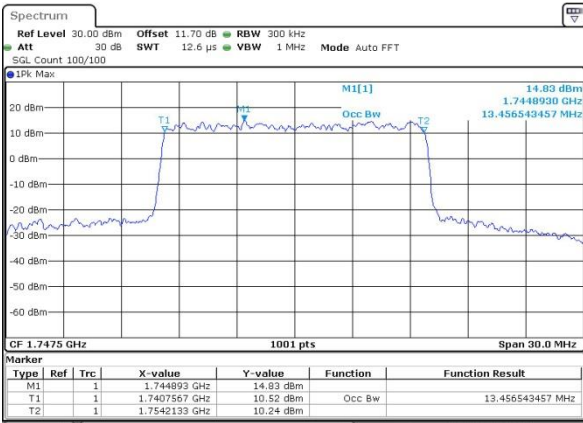
Date: 15\_JUL\_2016 18:08:51

Middle Channel / 15MHz / 16QAM



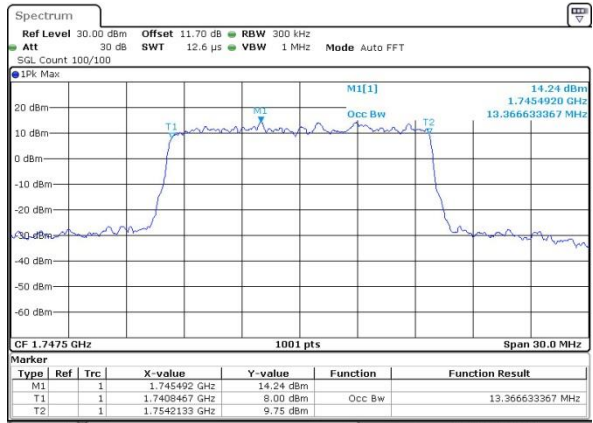
Date: 15\_JUL\_2016 18:09:03

Highest Channel / 15MHz / QPSK



Date: 15\_JUL\_2016 18:11:35

Highest Channel / 15MHz / 16QAM



Date: 15\_JUL\_2016 18:11:47