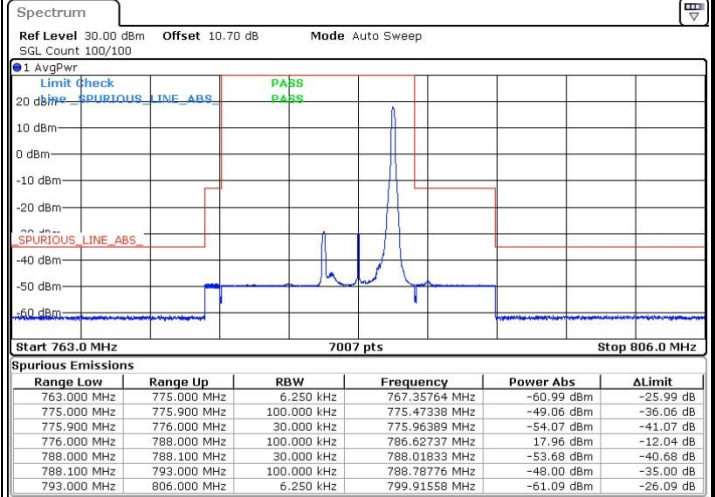
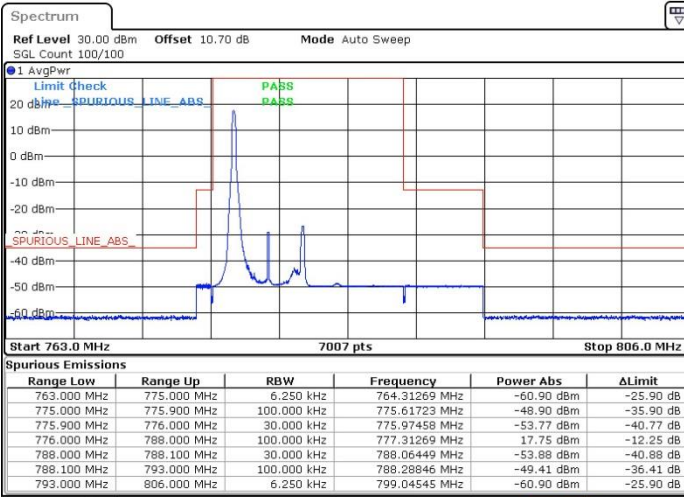




LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

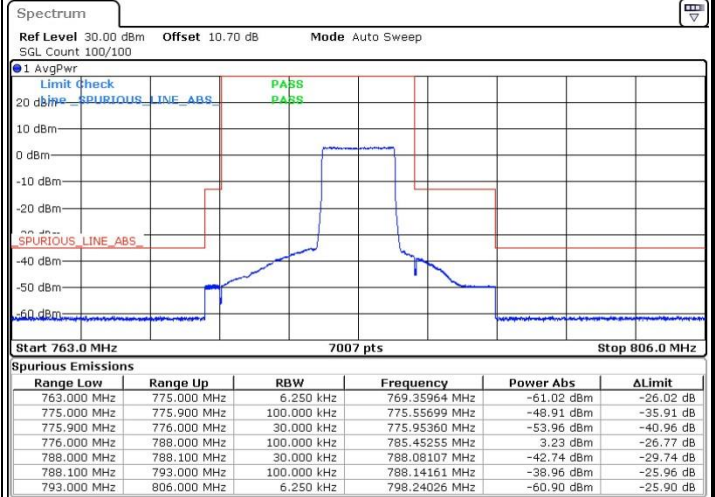
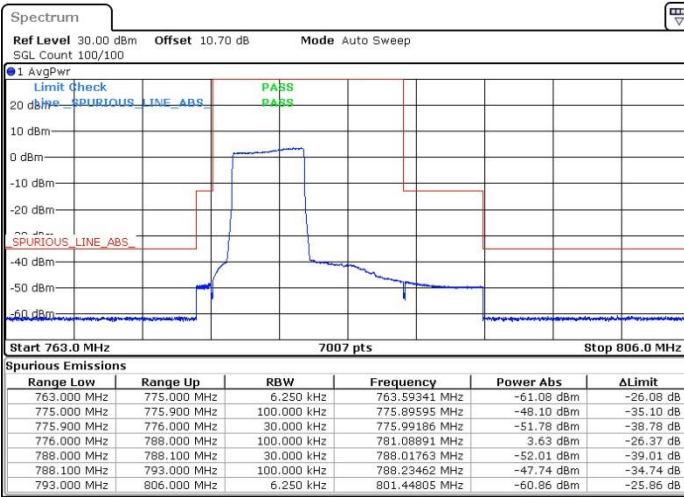


Date: 28 APR 2017 15:02:56

Date: 28 APR 2017 15:08:45

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 28 APR 2017 15:01:17

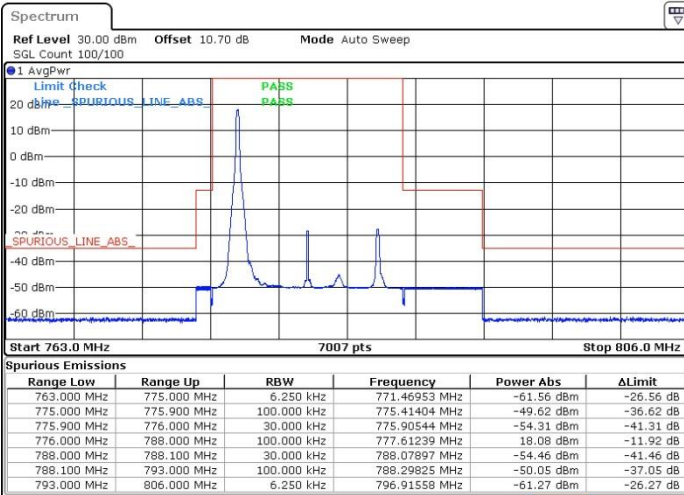
Date: 28 APR 2017 15:07:05



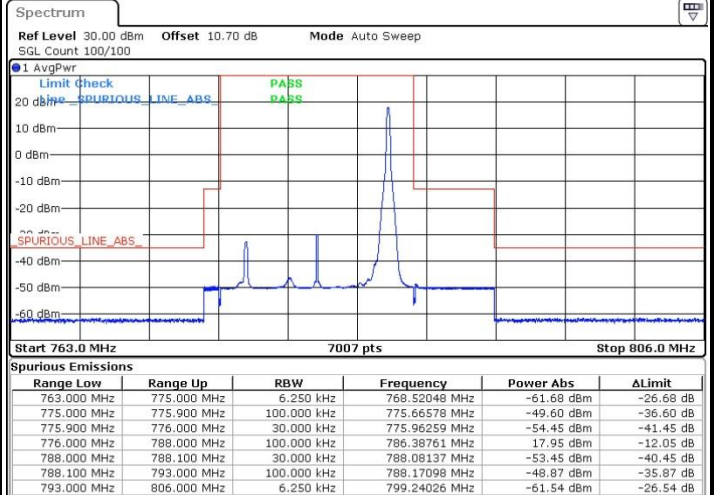
LTE Band 13 / 10MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

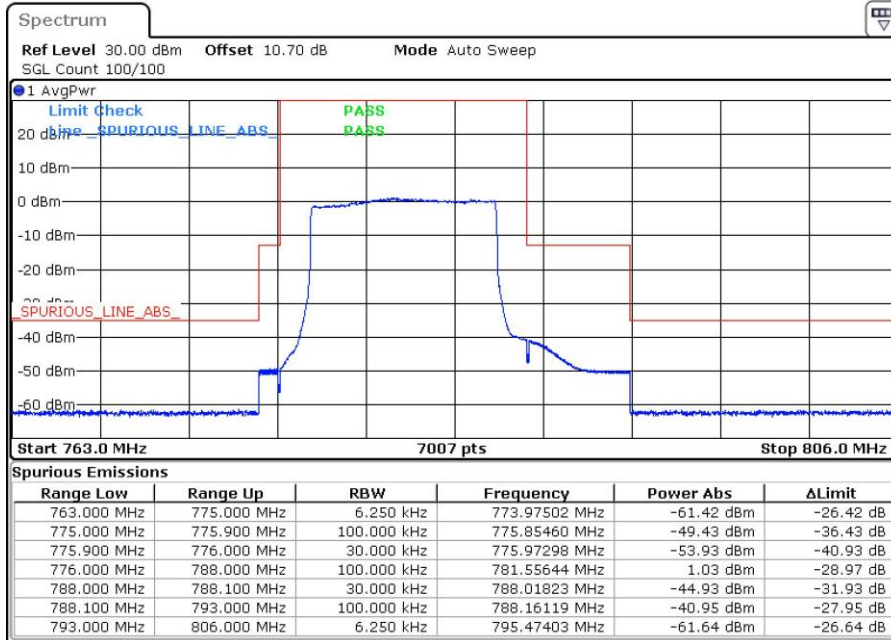


Date: 21 APR 2017 17:08:43



Date: 21 APR 2017 17:10:22

Band Edge / Full RB

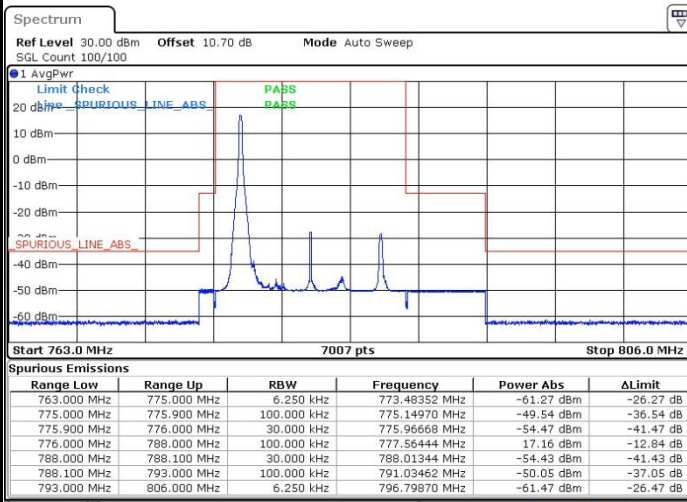


Date: 21 APR 2017 17:03:45



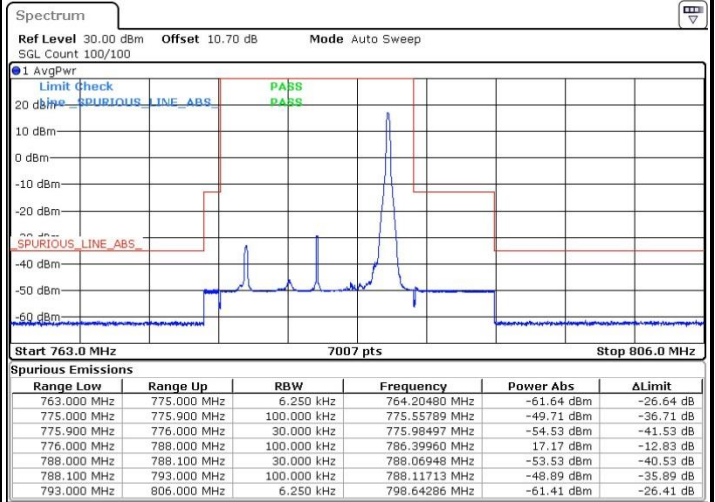
LTE Band 13 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



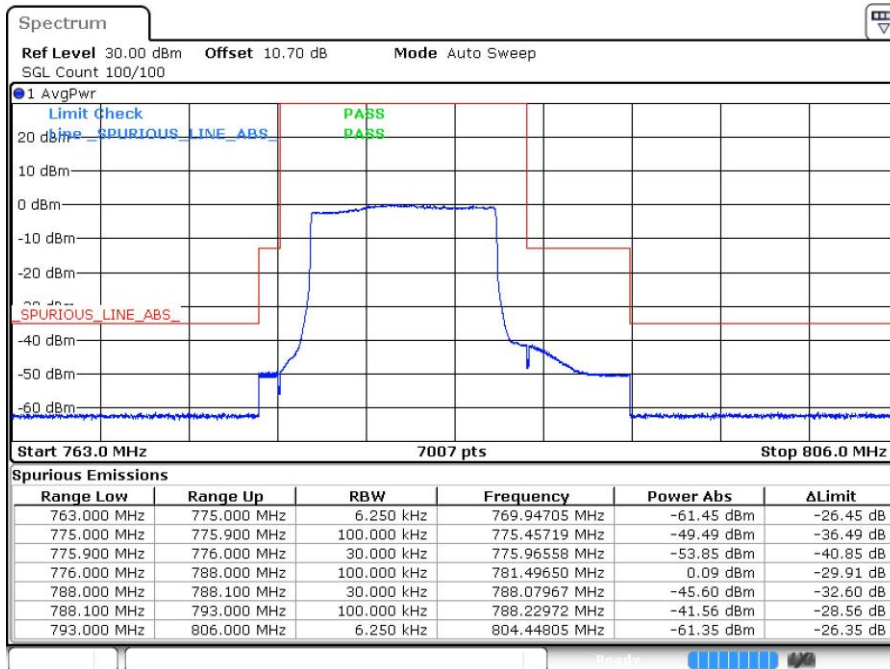
Date: 21 APR 2017 17:07:04

Highest Band Edge / 1 RB



Date: 21 APR 2017 17:12:02

Band Edge / Full RB



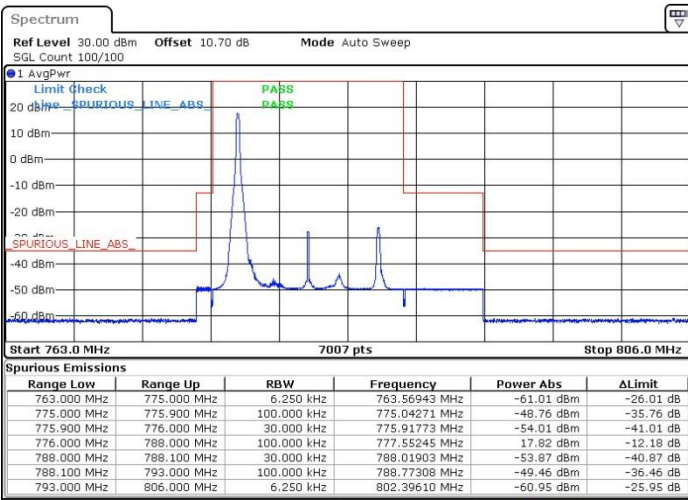
Date: 21 APR 2017 17:05:24



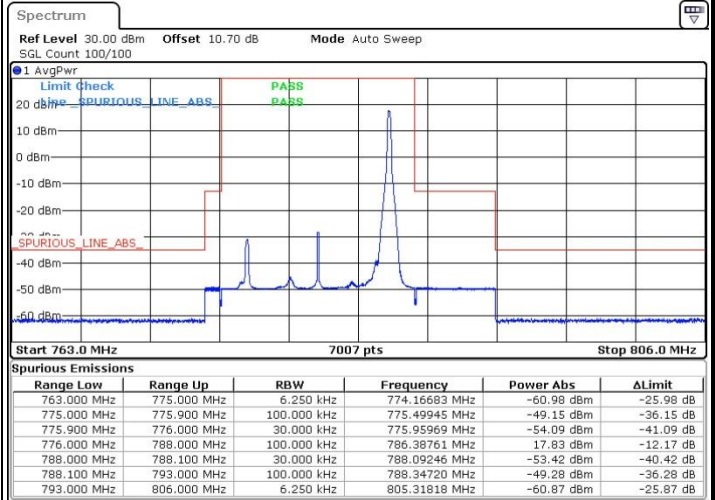
LTE Band 13 / 10MHz / 64QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

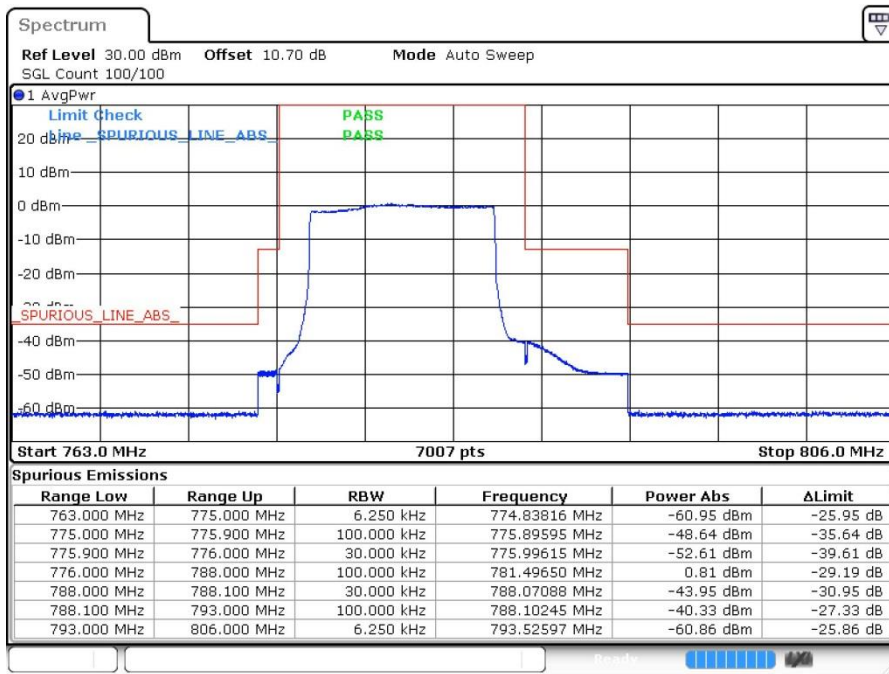


Date: 28 APR 2017 15:13:18



Date: 28 APR 2017 15:14:58

Band Edge / Full RB



Date: 28 APR 2017 15:11:39

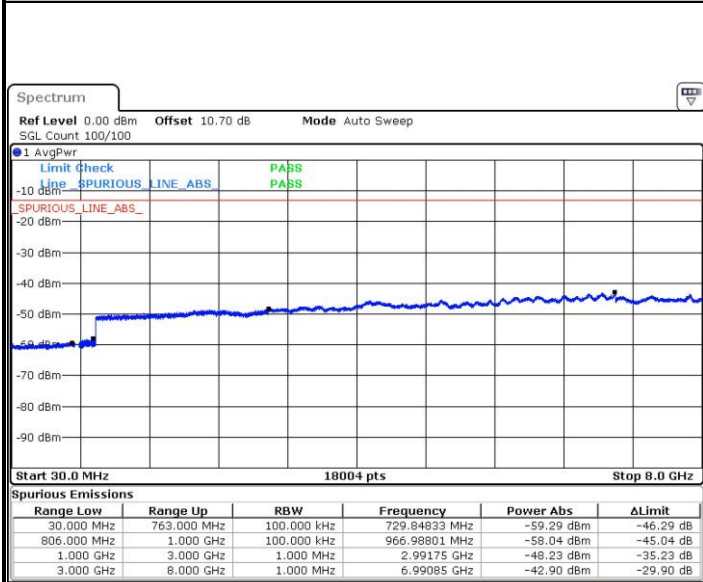


Conducted Spurious Emission



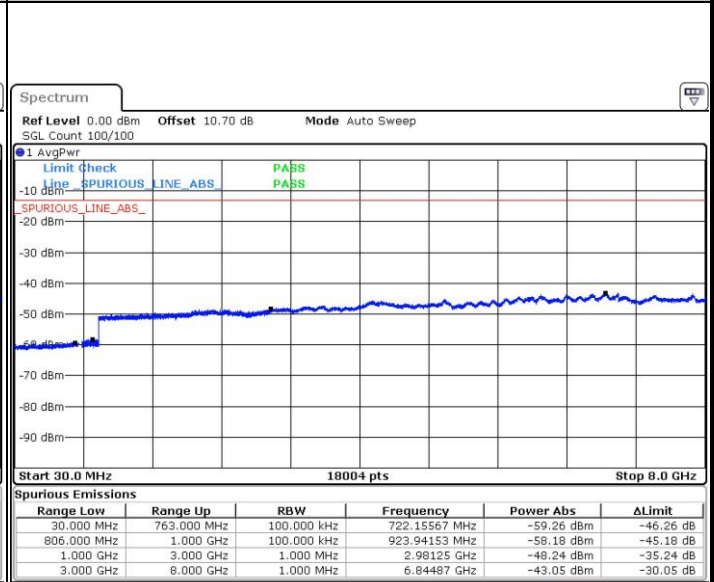
LTE Band 13 / 5MHz

Lowest Channel / QPSK



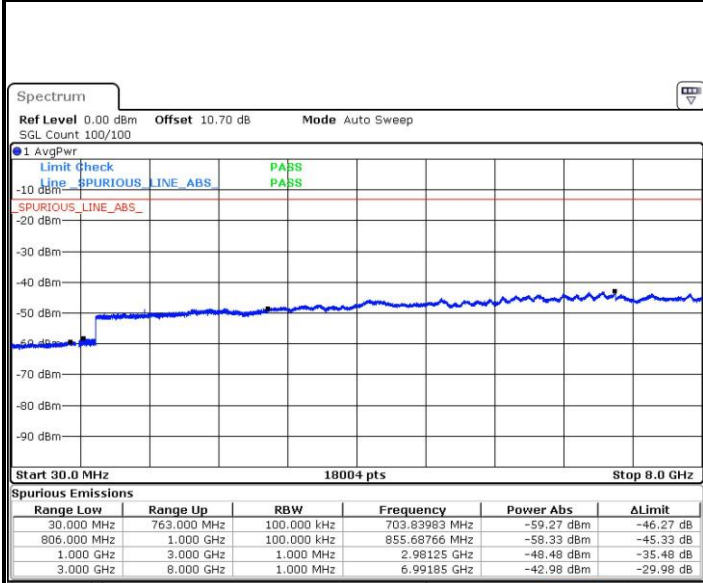
Date: 21 APR 2017 16:48:54

Lowest Channel / 16QAM



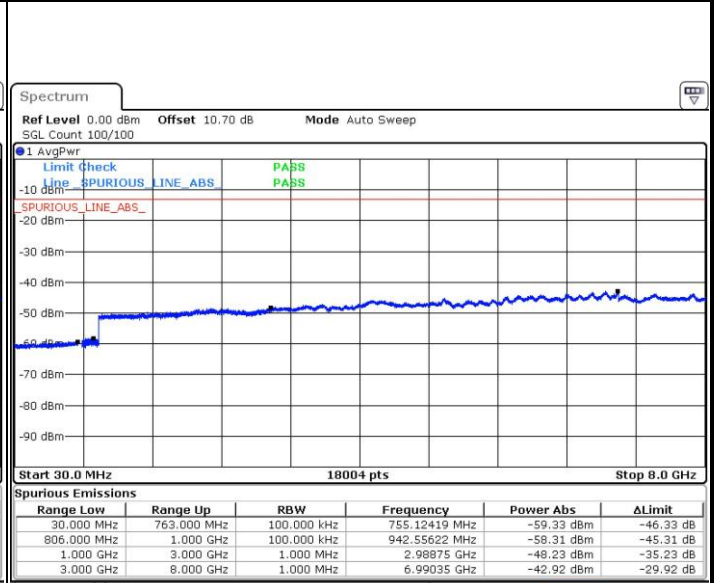
Date: 21 APR 2017 16:49:48

Middle Channel / QPSK



Date: 21 APR 2017 16:51:36

Middle Channel / 16QAM

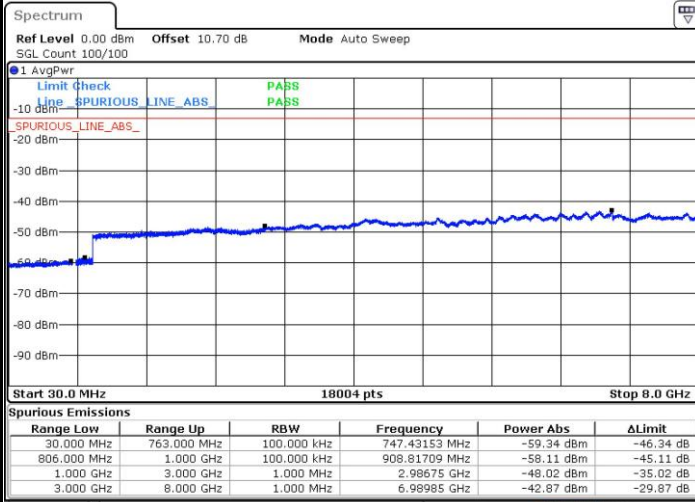


Date: 21 APR 2017 16:50:42



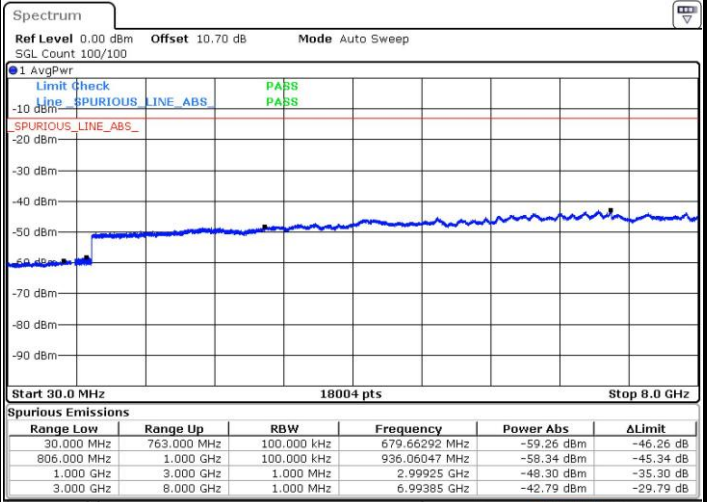
LTE Band 13 / 5MHz

Highest Channel / QPSK



Date: 21 APR 2017 17:00:31

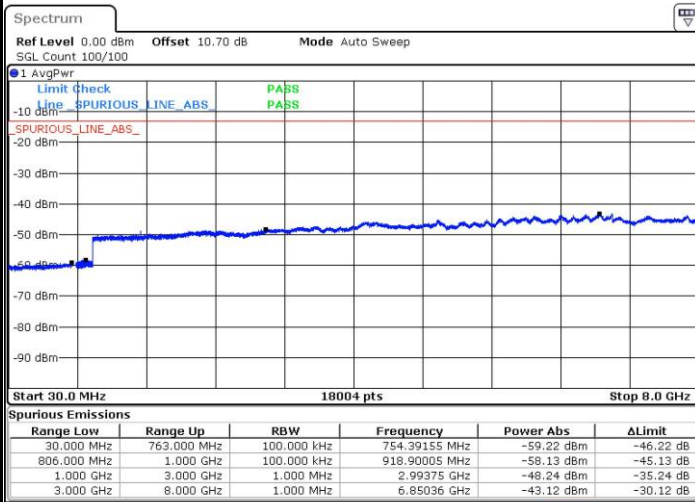
Highest Channel / 16QAM



Date: 21 APR 2017 17:01:25

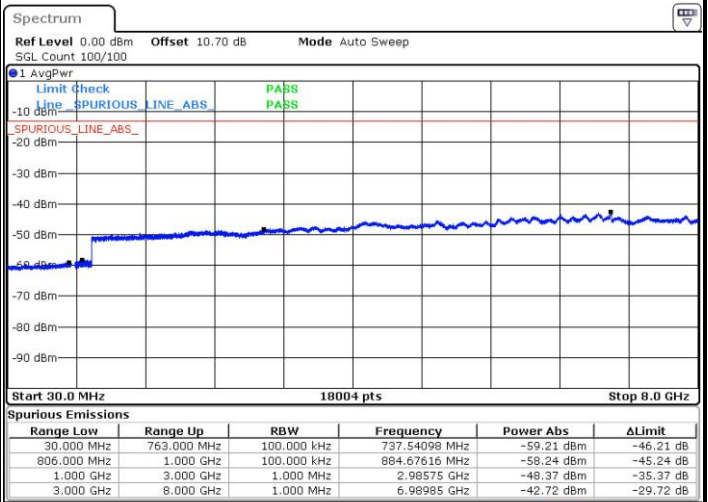
LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 21 APR 2017 17:13:51

Middle Channel / 16QAM

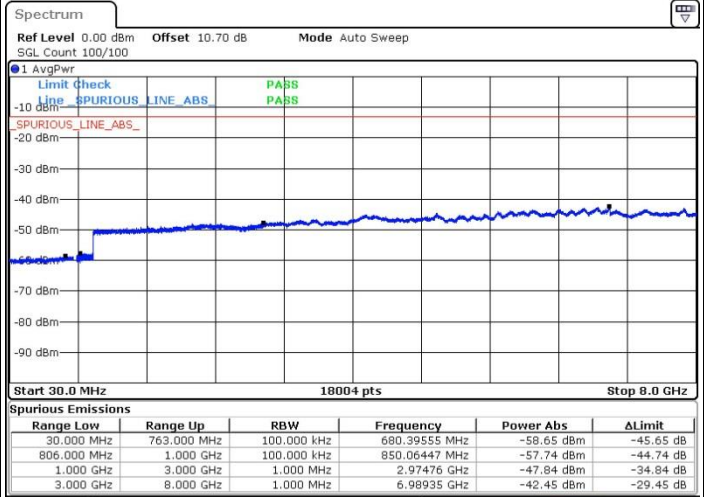


Date: 21 APR 2017 17:12:57



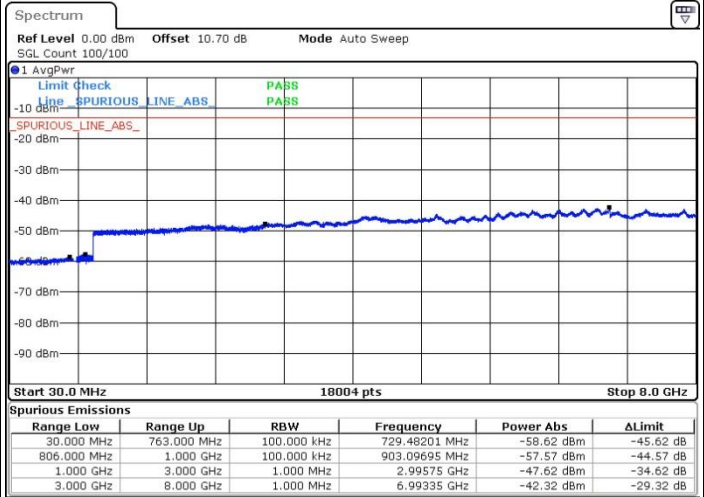
LTE Band 13 / 5MHz

Lowest Channel / 64QAM



Date: 28.APR.2017 15:03:51

Middle Channel / 64QAM

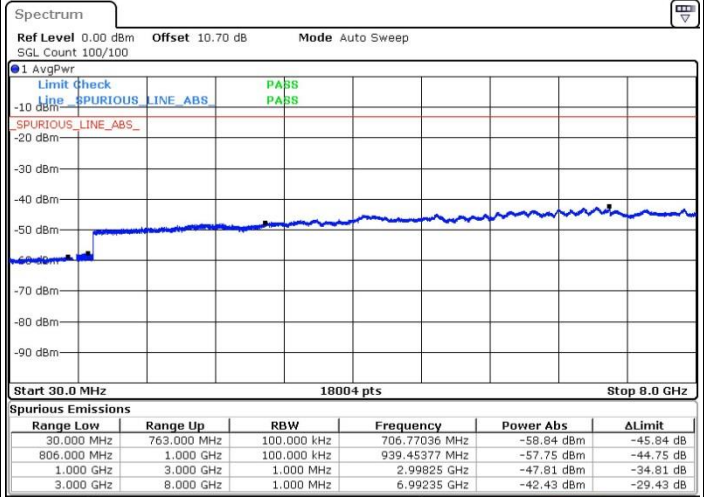


Date: 28.APR.2017 15:04:45



LTE Band 13 / 5MHz

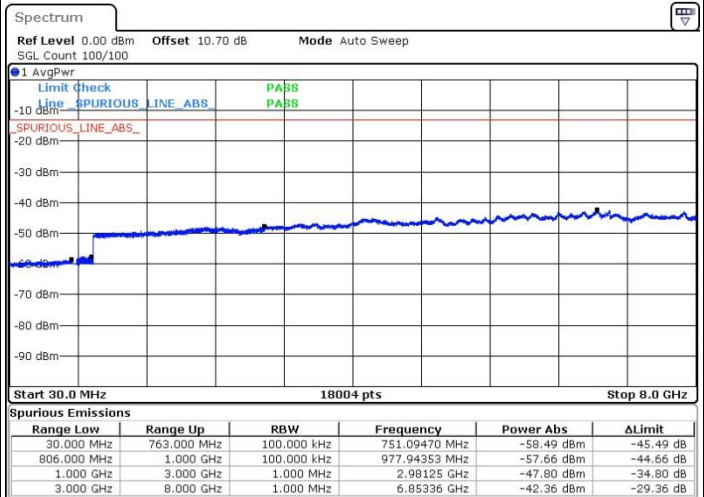
Highest Channel / 64QAM



Date: 28.APR.2017 15:09:40

LTE Band 13 / 10MHz

Middle Channel / 64QAM



Date: 28.APR.2017 15:15:52



Frequency Stability

Test Conditions		LTE Band 13 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0004	PASS
40	Normal Voltage	0.0012	
30	Normal Voltage	0.0055	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0091	
0	Normal Voltage	0.0051	
-10	Normal Voltage	0.0059	
-20	Normal Voltage	0.0066	
-30	Normal Voltage	0.0060	
20	Maximum Voltage	0.0056	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0068	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.35 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 17

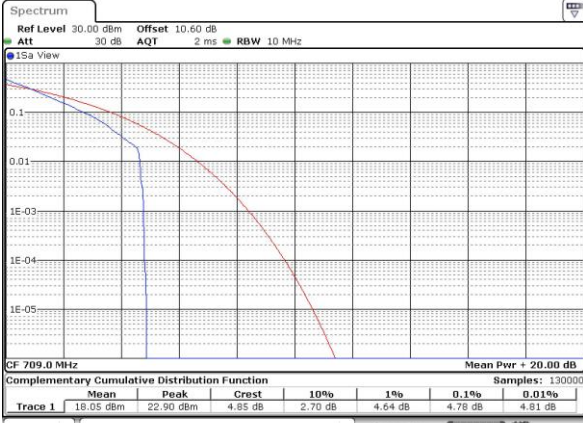
Peak-to-Average Ratio

Mode	LTE Band 17 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.78	4.9	5.54	5.91	PASS
Middle CH	4.64	5.01	5.16	5.97	
Highest CH	4.49	5.13	5.25	5.88	
Mod.	-		64QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	-	-	5.71	5.83	PASS
Middle CH	-	-	5.59	5.83	
Highest CH	-	-	5.28	5.88	



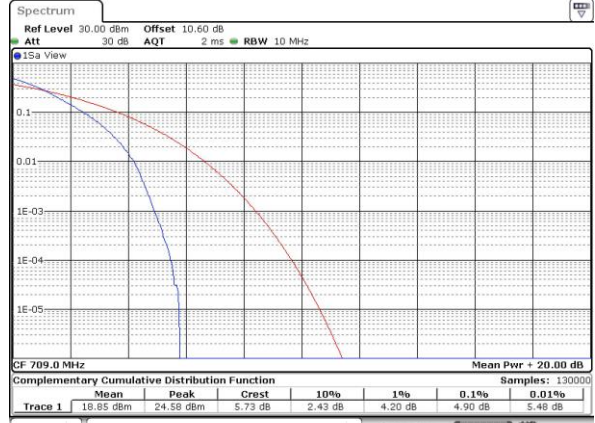
LTE Band 17 / 10MHz / QPSK

Lowest Channel / 1RB



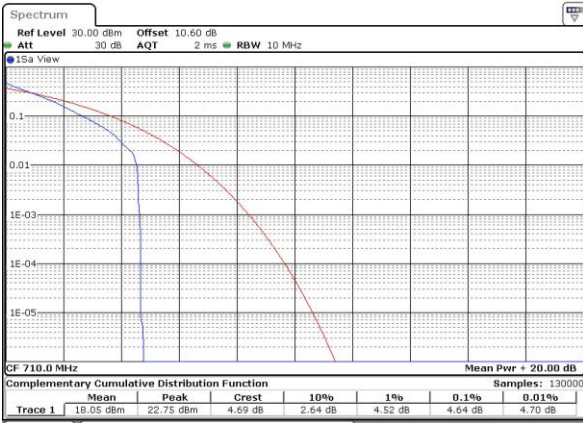
Date: 21 APR 2017 17:53:46

Lowest Channel / Full RB



Date: 21 APR 2017 17:53:56

Middle Channel / 1RB



Date: 21 APR 2017 17:54:05

Middle Channel / Full RB



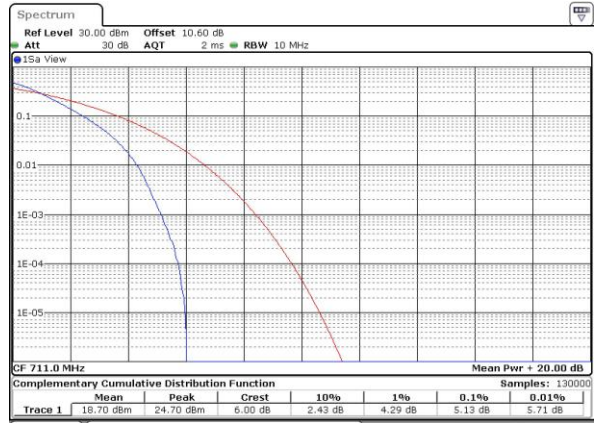
Date: 21 APR 2017 17:54:18

Highest Channel / 1RB



Date: 21 APR 2017 17:54:31

Highest Channel / Full RB



Date: 21 APR 2017 17:54:40



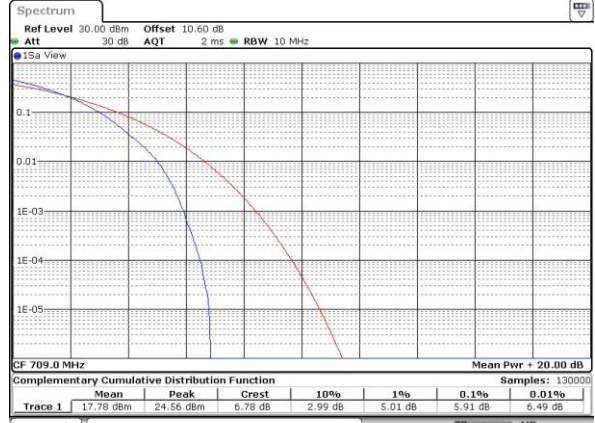
LTE Band 17 / 10MHz / 16QAM

Lowest Channel / 1RB



Date: 21 APR 2017 17:51:44

Lowest Channel / Full RB



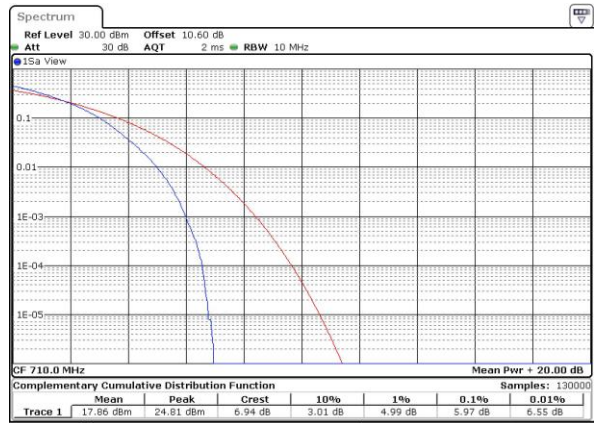
Date: 21 APR 2017 17:51:56

Middle Channel / 1RB



Date: 21 APR 2017 17:52:14

Middle Channel / Full RB



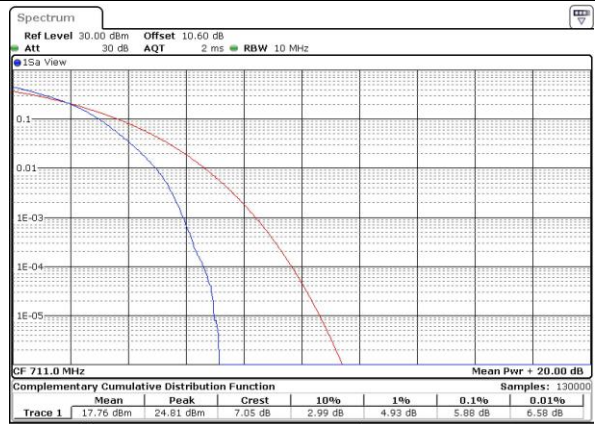
Date: 21 APR 2017 17:52:52

Highest Channel / 1RB



Date: 21 APR 2017 17:53:24

Highest Channel / Full RB



Date: 21 APR 2017 17:53:35



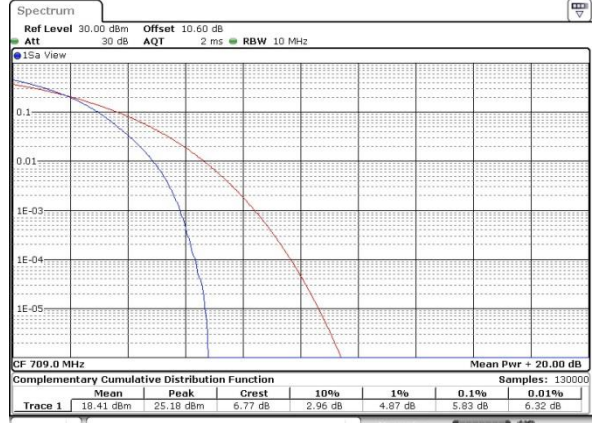
LTE Band 17 / 10MHz / 64QAM

Lowest Channel / 1RB



Date: 28 APR 2017 01:19:38

Lowest Channel / Full RB



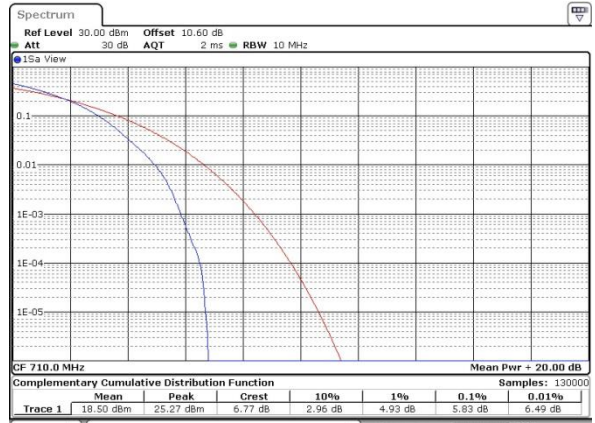
Date: 28 APR 2017 01:19:48

Middle Channel / 1RB



Date: 28 APR 2017 01:20:01

Middle Channel / Full RB



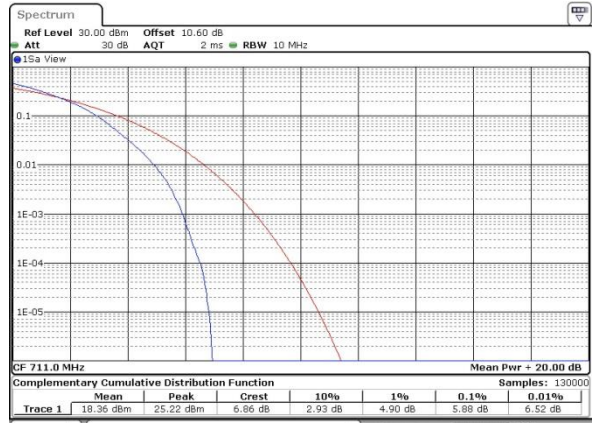
Date: 28 APR 2017 01:20:11

Highest Channel / 1RB



Date: 28 APR 2017 01:20:20

Highest Channel / Full RB



Date: 28 APR 2017 01:20:30



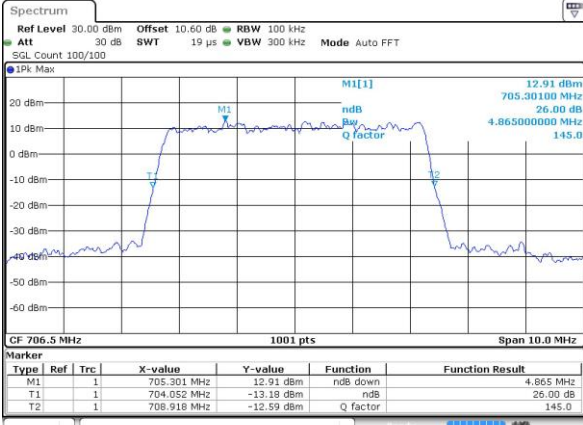
26dB Bandwidth

Mode	LTE Band 17 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.865	4.935	9.69	9.77	-	-	-	-
Middle CH	-	-	-	-	4.865	4.885	9.77	9.79	-	-	-	-
Highest CH	-	-	-	-	4.955	4.955	9.81	9.77	-	-	-	-
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	-	64QAM	-	64QAM	-	64QAM	-	64QAM	-	64QAM	-	64QAM
Lowest CH	-	-	-	-	-	4.915	-	9.79	-	-	-	-
Middle CH	-	-	-	-	-	4.835	-	9.61	-	-	-	-
Highest CH	-	-	-	-	-	4.915	-	9.87	-	-	-	-



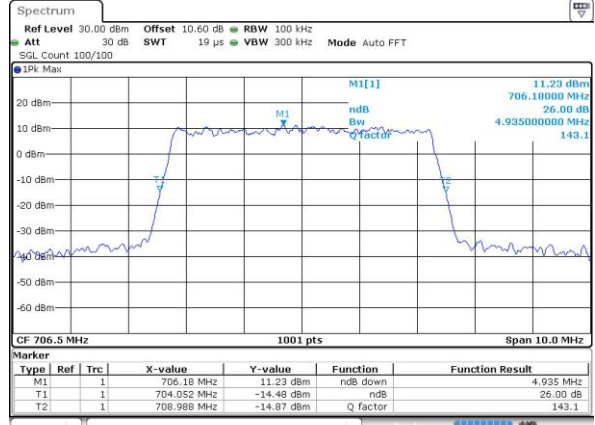
LTE Band 17

Lowest Channel / 5MHz / QPSK



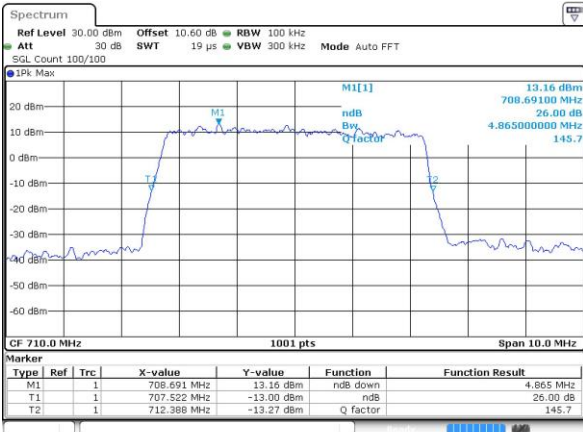
Date: 21 APR 2017 17:17:31

Lowest Channel / 5MHz / 16QAM



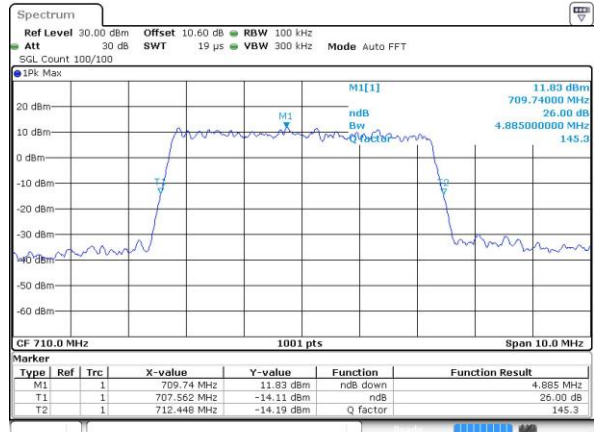
Date: 21 APR 2017 17:17:42

Middle Channel / 5MHz / QPSK



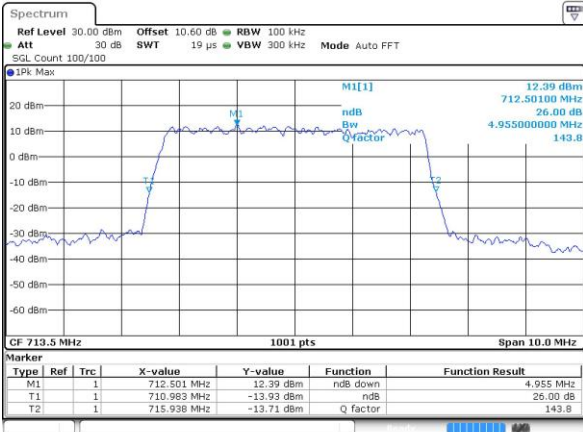
Date: 21 APR 2017 17:24:38

Middle Channel / 5MHz / 16QAM



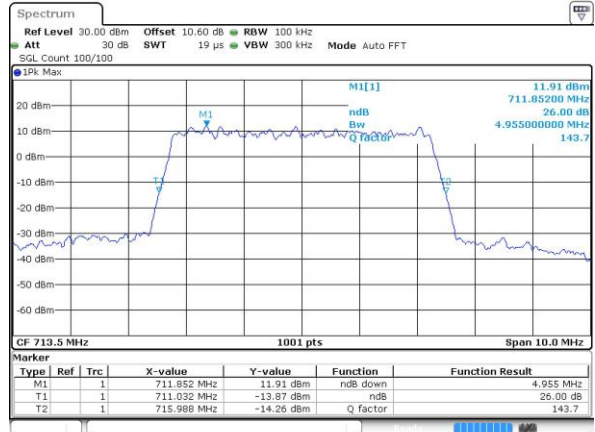
Date: 21 APR 2017 17:24:49

Highest Channel / 5MHz / QPSK



Date: 21 APR 2017 17:27:08

Highest Channel / 5MHz / 16QAM

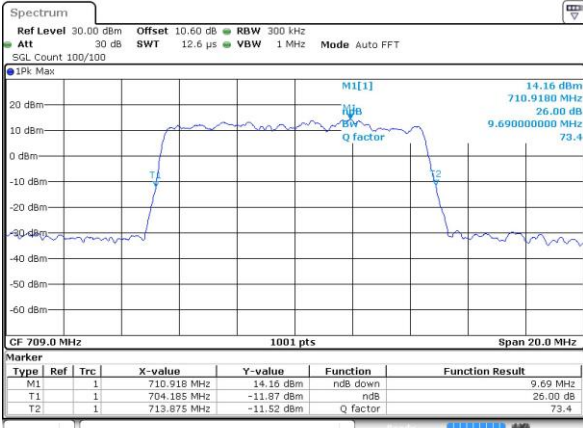


Date: 21 APR 2017 17:27:19



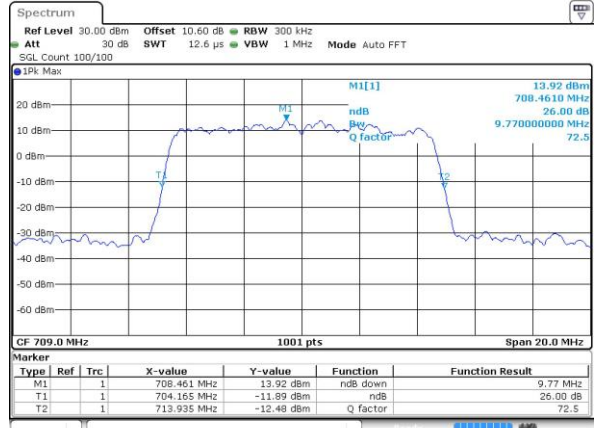
LTE Band 17

Lowest Channel / 10MHz / QPSK



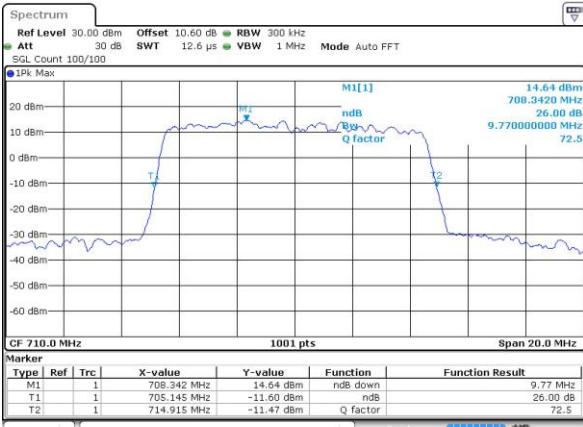
Date: 21 APR 2017 17:34:14

Lowest Channel / 10MHz / 16QAM



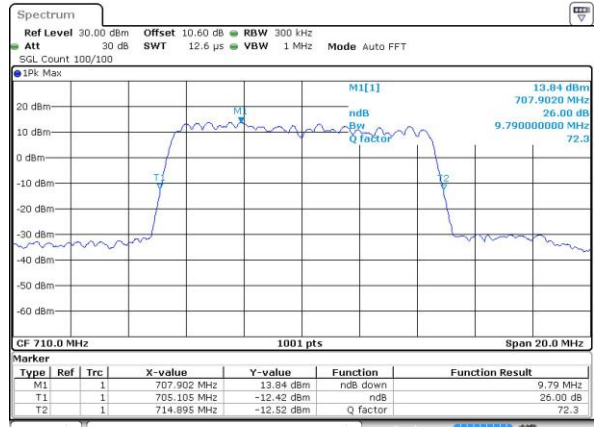
Date: 21 APR 2017 17:34:24

Middle Channel / 10MHz / QPSK



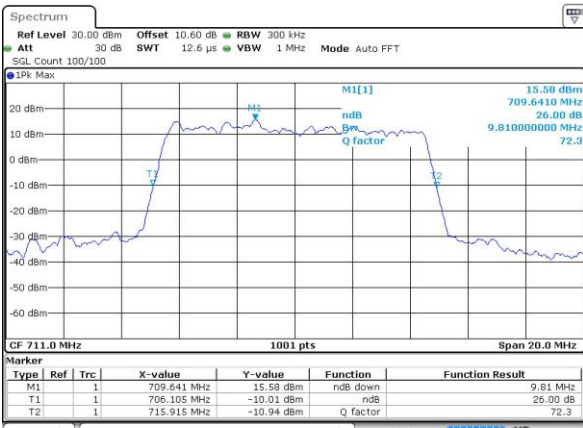
Date: 21 APR 2017 17:41:20

Middle Channel / 10MHz / 16QAM



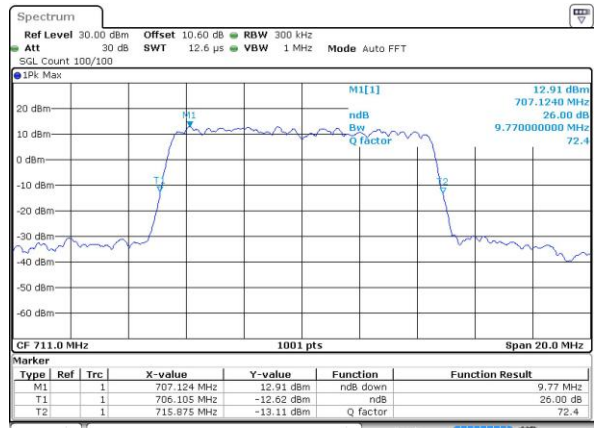
Date: 21 APR 2017 17:41:30

Highest Channel / 10MHz / QPSK



Date: 21 APR 2017 17:43:50

Highest Channel / 10MHz / 16QAM

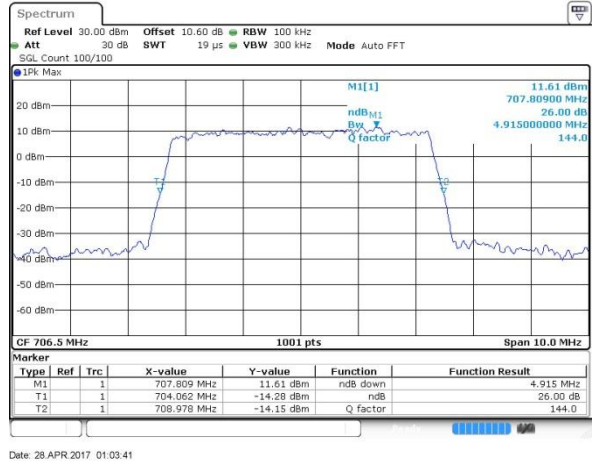


Date: 21 APR 2017 17:44:00



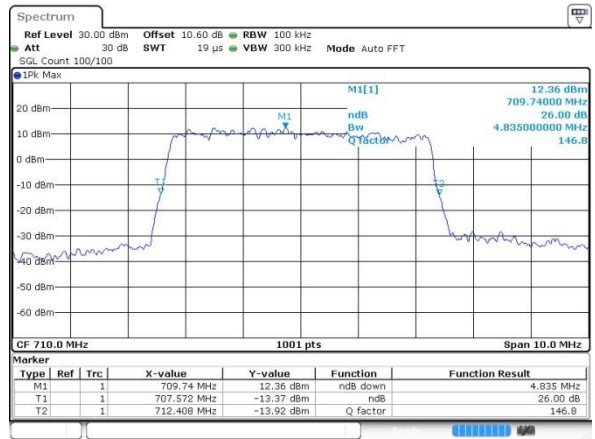
LTE Band 17

Lowest Channel / 5MHz / 64QAM



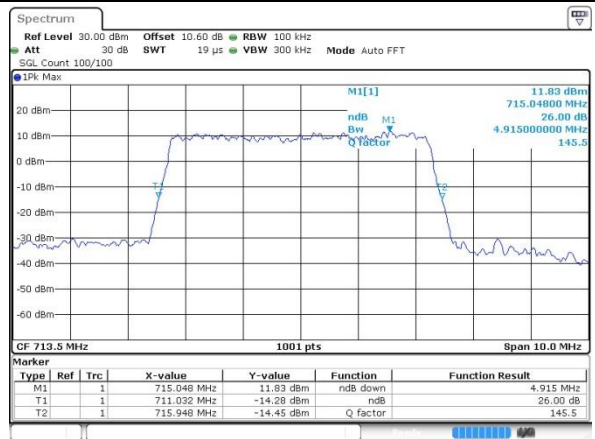
Date: 28 APR 2017 01:03:41

Middle Channel / 5MHz / 64QAM



Date: 28 APR 2017 01:07:14

Highest Channel / 5MHz / 64QAM

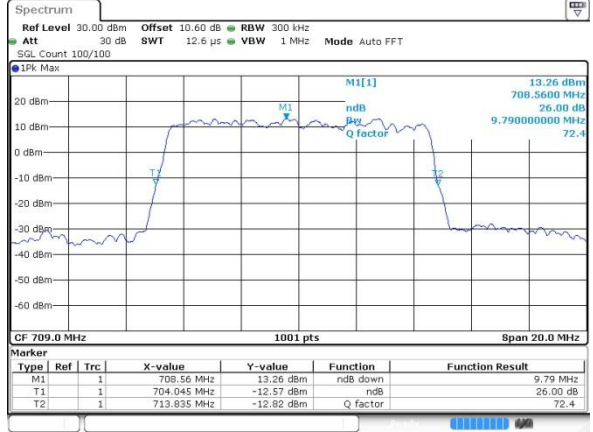


Date: 28 APR 2017 01:08:29

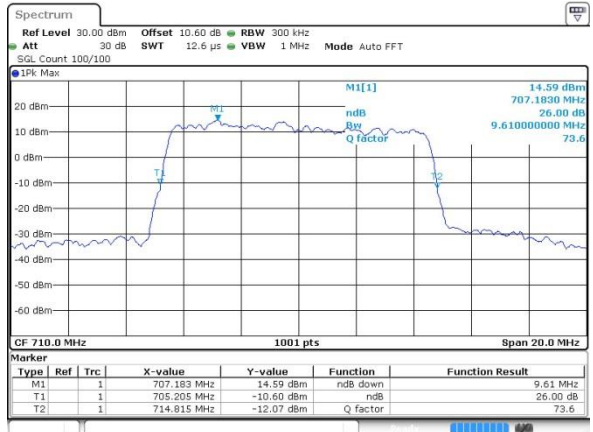


LTE Band 17

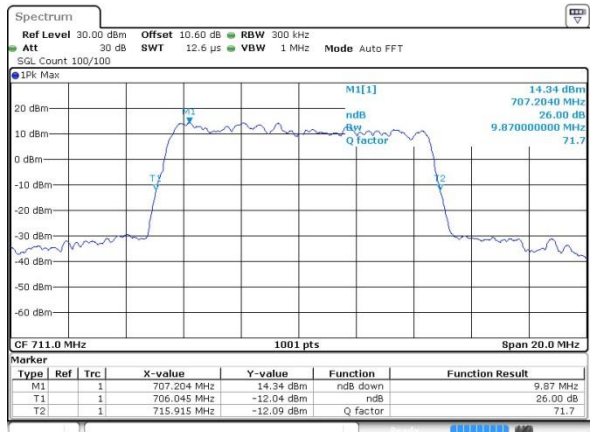
Lowest Channel / 10MHz / 64QAM



Middle Channel / 10MHz / 64QAM



Highest Channel / 10MHz / 64QAM





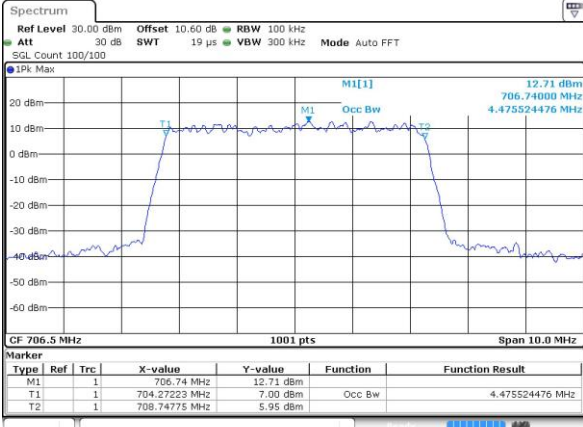
Occupied Bandwidth

Mode	LTE Band 17 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.48	4.49	8.93	8.93	-	-	-	-
Middle CH	-	-	-	-	4.47	4.49	9.07	8.97	-	-	-	-
Highest CH	-	-	-	-	4.5	4.5	8.99	9.03	-	-	-	-
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	-	64QAM	-	64QAM	-	64QAM	-	64QAM	-	64QAM	-	64QAM
Lowest CH	-	-	-	-	-	4.49	-	8.99	-	-	-	-
Middle CH	-	-	-	-	-	4.49	-	9.03	-	-	-	-
Highest CH	-	-	-	-	-	4.49	-	9.03	-	-	-	-



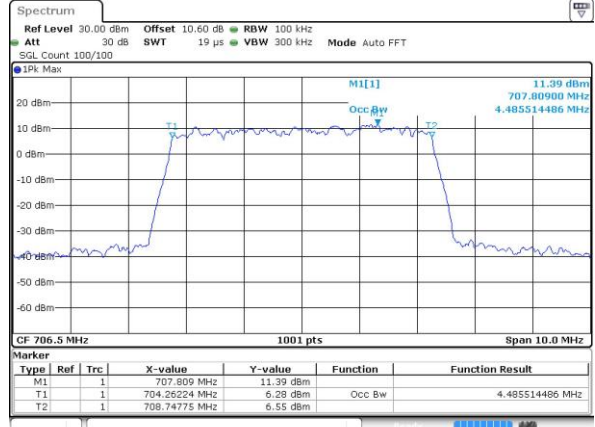
LTE Band 17

Lowest Channel / 5MHz / QPSK



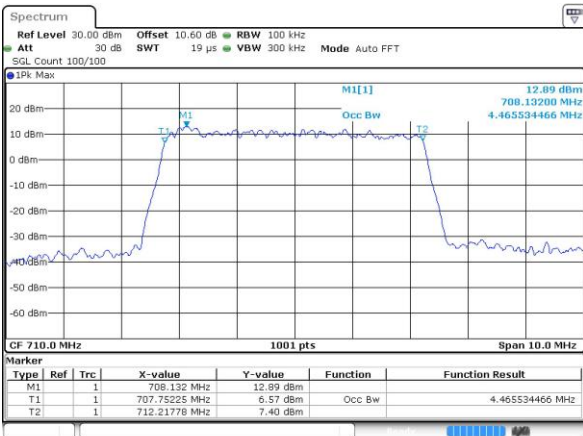
Date: 21 APR 2017 17:17:11

Lowest Channel / 5MHz / 16QAM



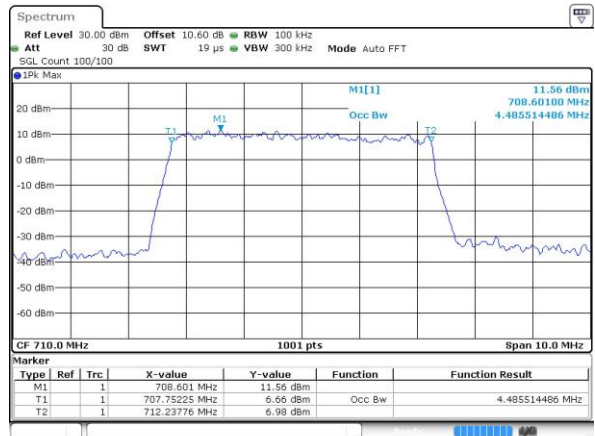
Date: 21 APR 2017 17:17:21

Middle Channel / 5MHz / QPSK



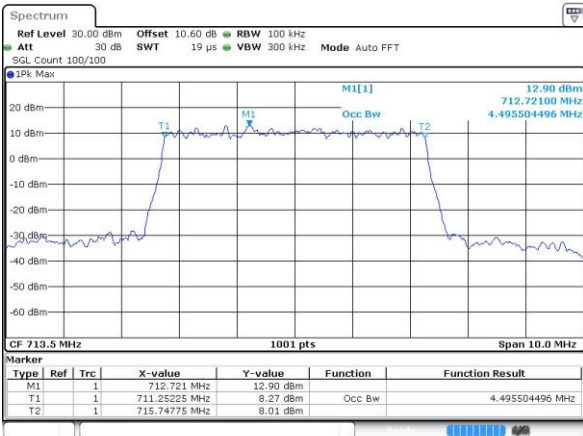
Date: 21 APR 2017 17:24:18

Middle Channel / 5MHz / 16QAM



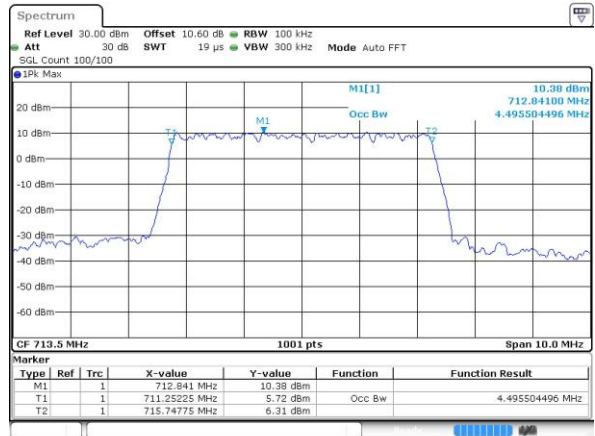
Date: 21 APR 2017 17:24:28

Highest Channel / 5MHz / QPSK



Date: 21 APR 2017 17:26:48

Highest Channel / 5MHz / 16QAM

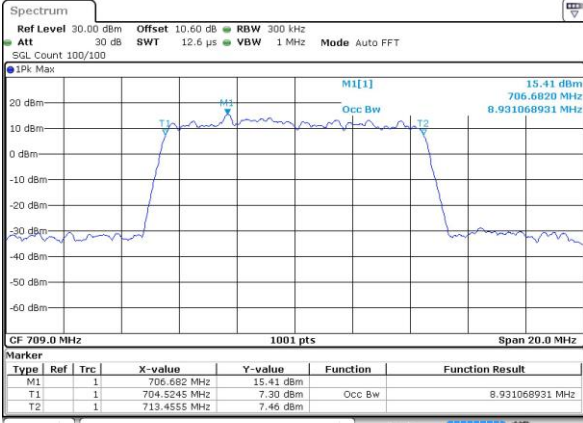


Date: 21 APR 2017 17:26:58



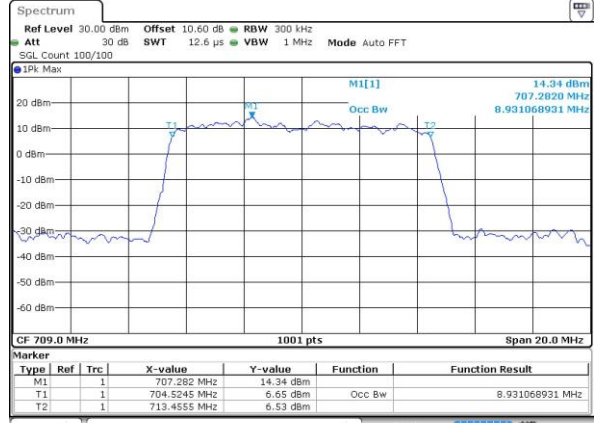
LTE Band 17

Lowest Channel / 10MHz / QPSK



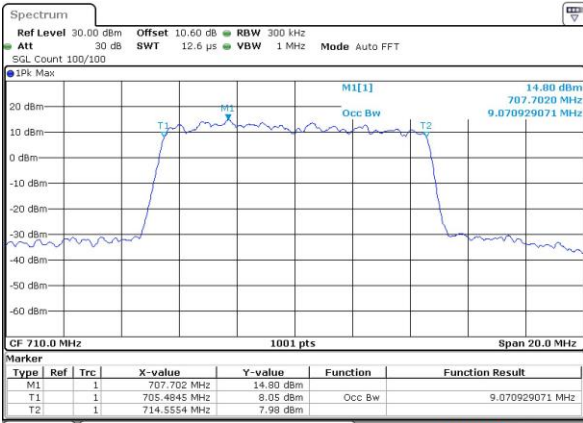
Date: 21 APR 2017 17:33:54

Lowest Channel / 10MHz / 16QAM



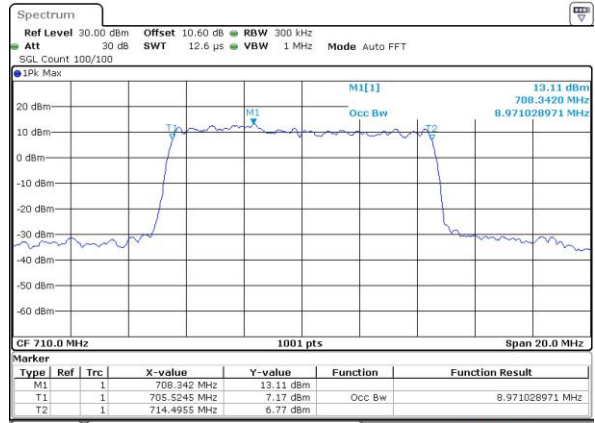
Date: 21 APR 2017 17:34:04

Middle Channel / 10MHz / QPSK



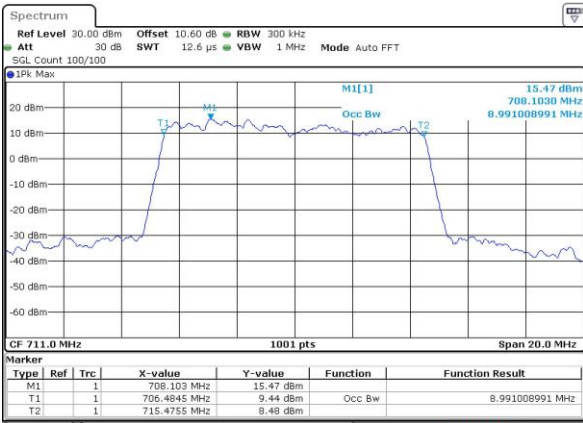
Date: 21 APR 2017 17:41:00

Middle Channel / 10MHz / 16QAM



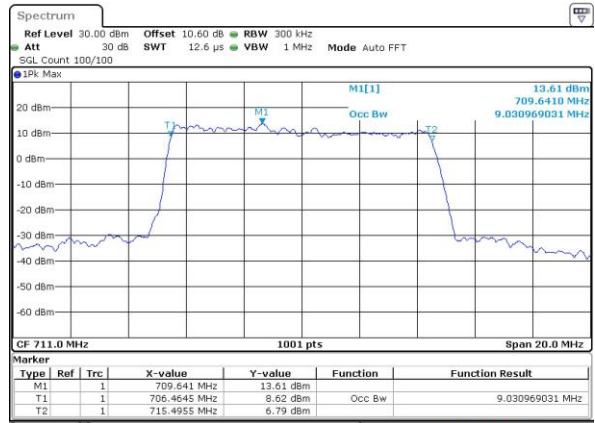
Date: 21 APR 2017 17:41:10

Highest Channel / 10MHz / QPSK



Date: 21 APR 2017 17:43:29

Highest Channel / 10MHz / 16QAM

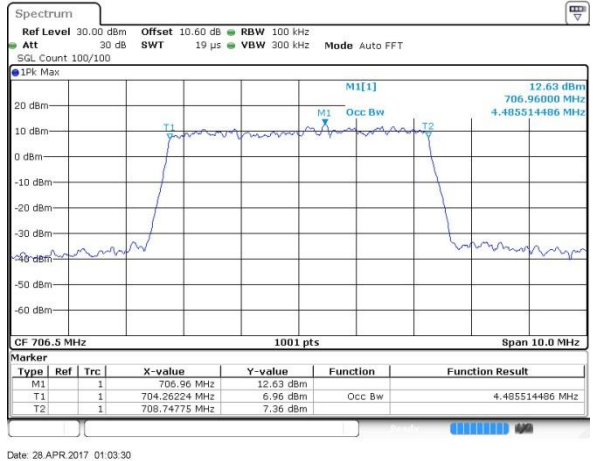


Date: 21 APR 2017 17:43:39



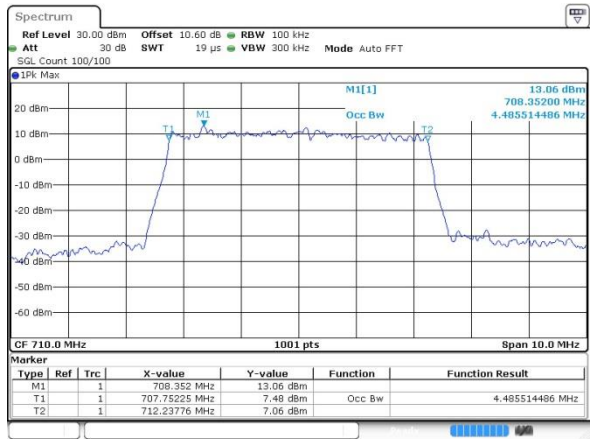
LTE Band 17

Lowest Channel / 5MHz / 64QAM



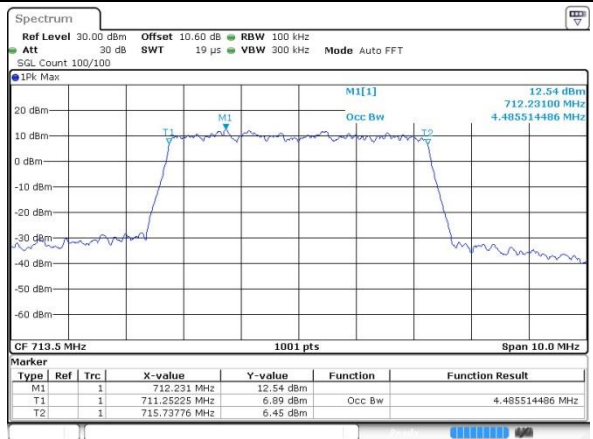
Date: 28 APR 2017 01:03:30

Middle Channel / 5MHz / 64QAM



Date: 28 APR 2017 01:07:04

Highest Channel / 5MHz / 64QAM



Date: 28 APR 2017 01:08:19