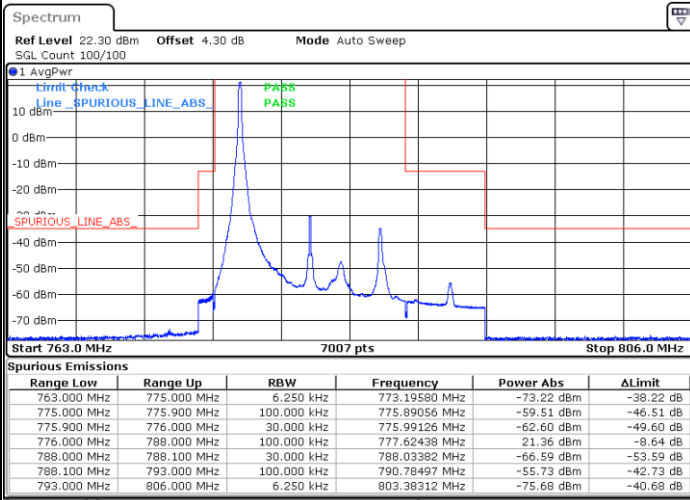




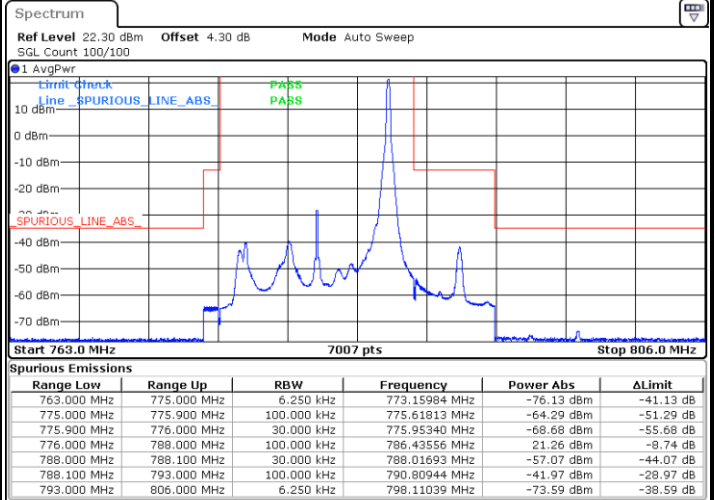
LTE Band 13 / 10MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

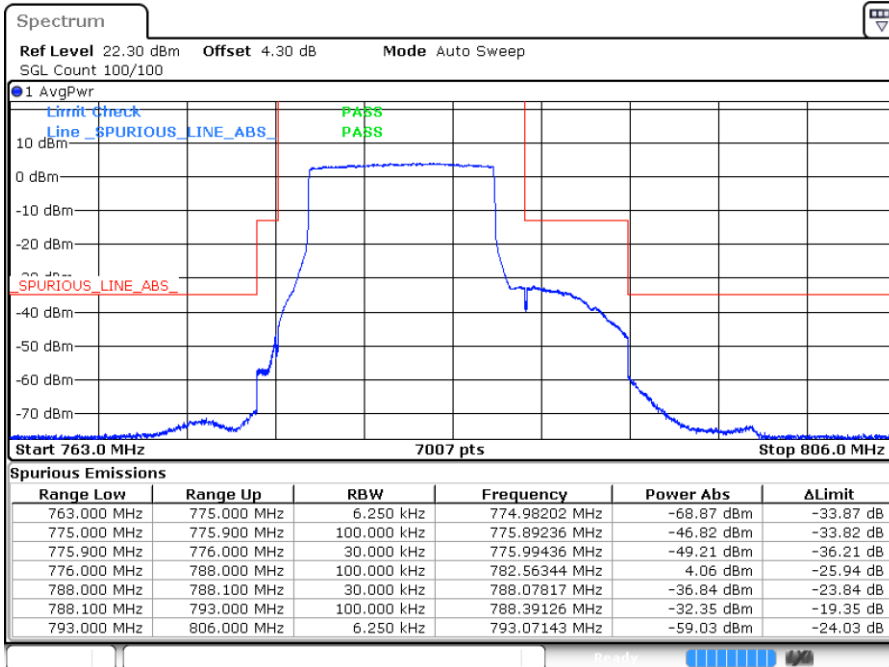


Date: 8 SEP 2018 09:22:58



Date: 8 SEP 2018 09:29:28

Band Edge / Full RB

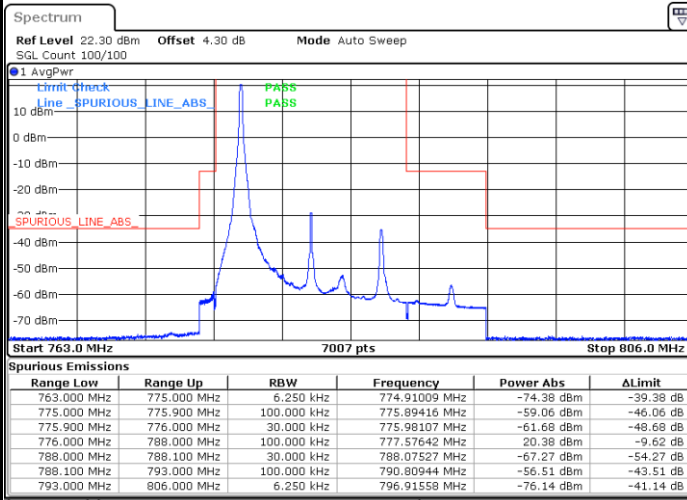


Date: 8 SEP 2018 09:24:36



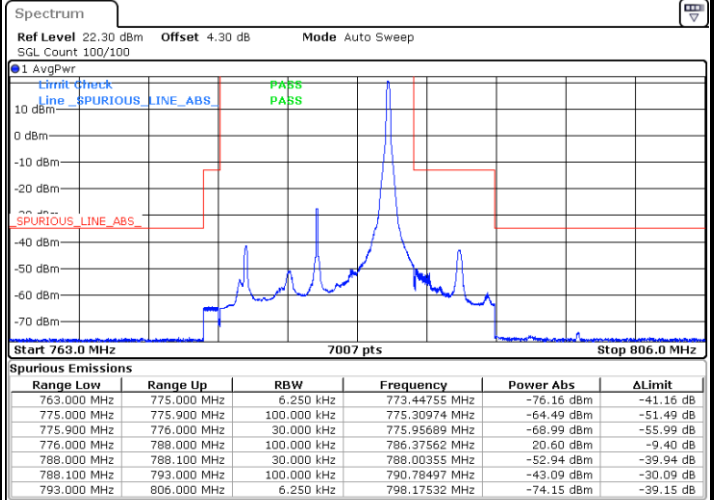
LTE Band 13 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



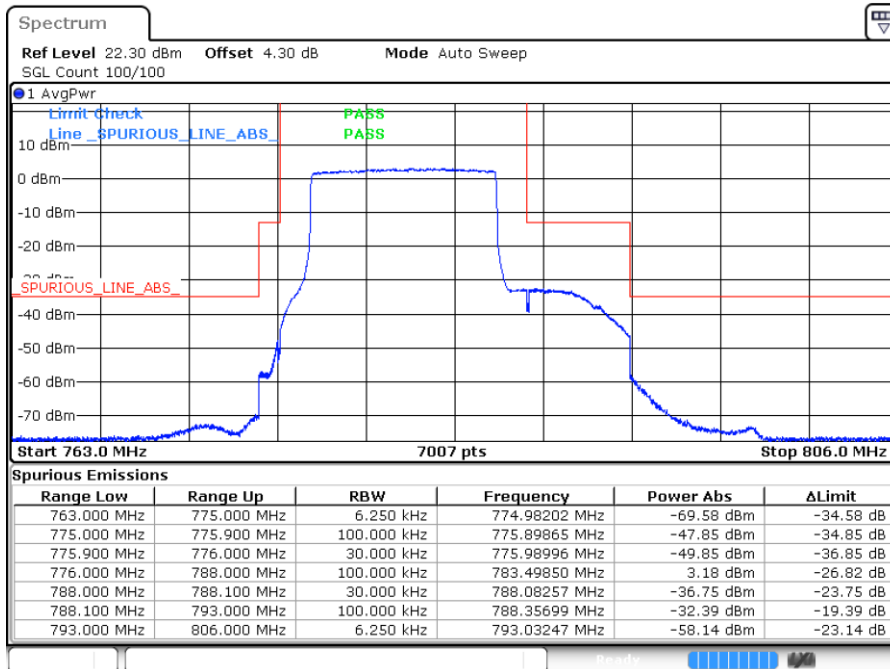
Date: 8 SEP 2018 09:21:21

Highest Band Edge / 1 RB



Date: 8 SEP 2018 09:27:51

Band Edge / Full RB

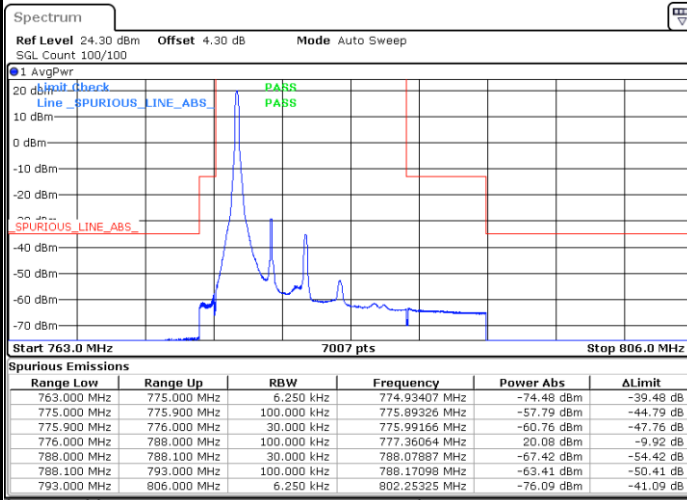


Date: 8 SEP 2018 09:26:13



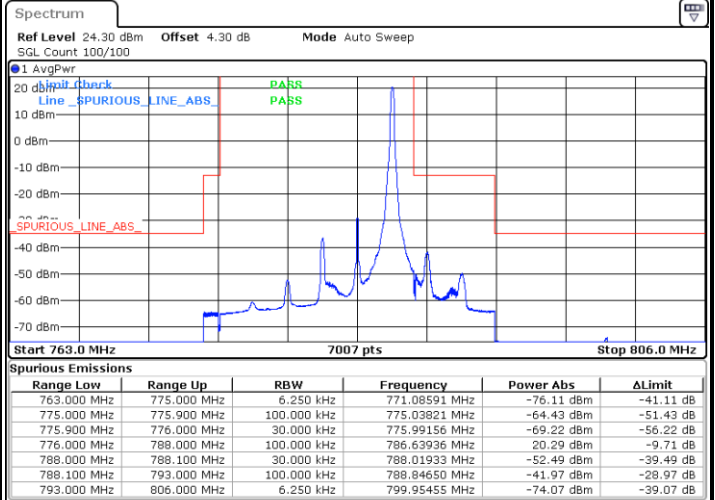
LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1 RB



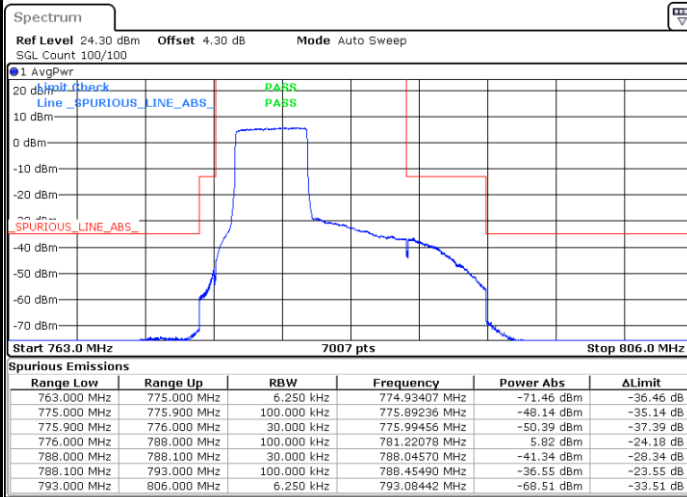
Date: 8 SEP.2018 09:34:58

Highest Band Edge / 1 RB



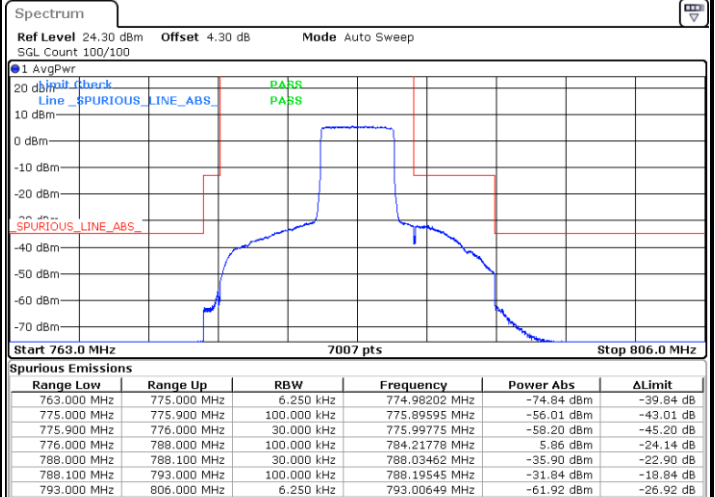
Date: 8 SEP.2018 09:39:50

Lowest Band Edge / Full RB



Date: 8 SEP.2018 09:36:35

Highest Band Edge / Full RB

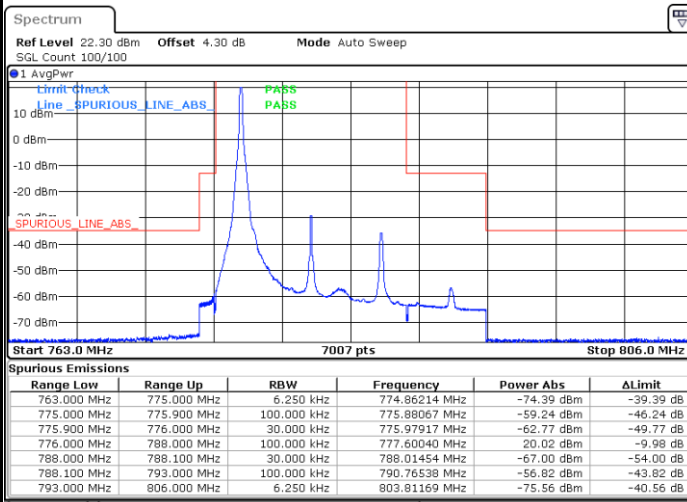


Date: 8 SEP.2018 09:38:13



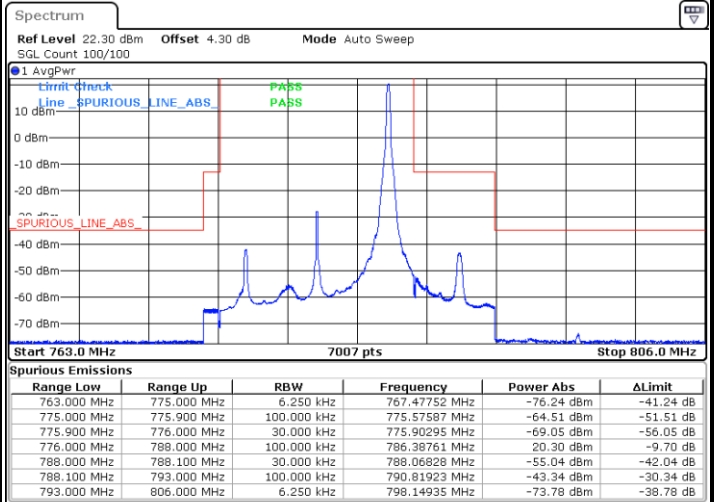
LTE Band 13 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



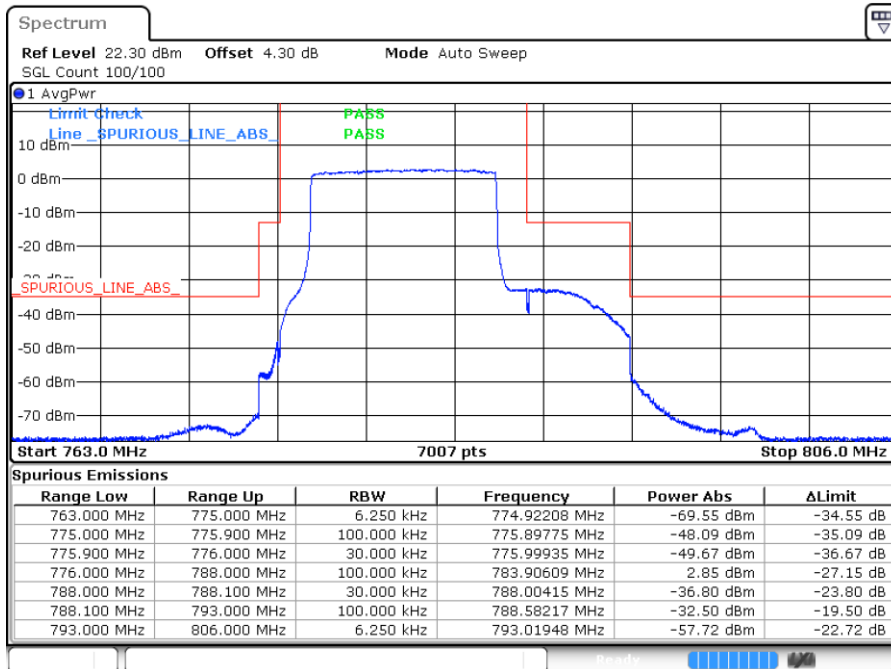
Date: 8 SEP 2018 09:44:30

Highest Band Edge / 1 RB



Date: 8 SEP 2018 09:46:07

Band Edge / Full RB



Date: 8 SEP 2018 09:47:45



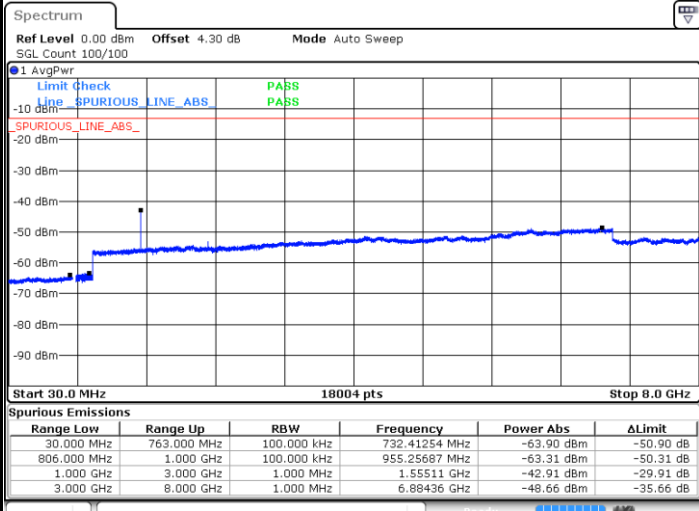
**Conducted Spurious Emission**



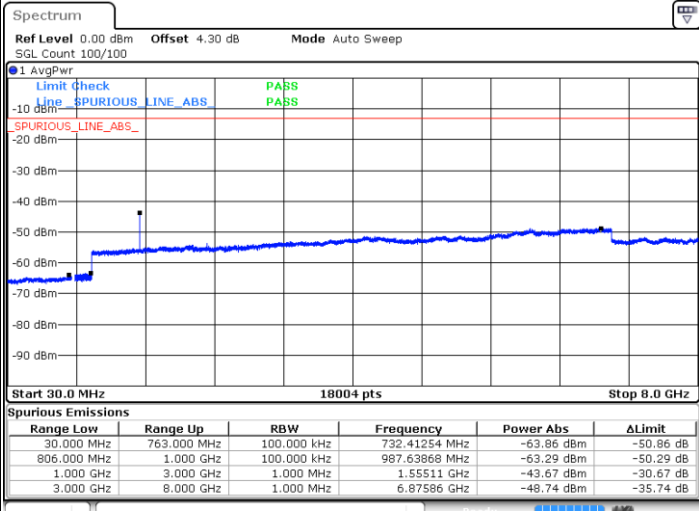
LTE Band 13 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



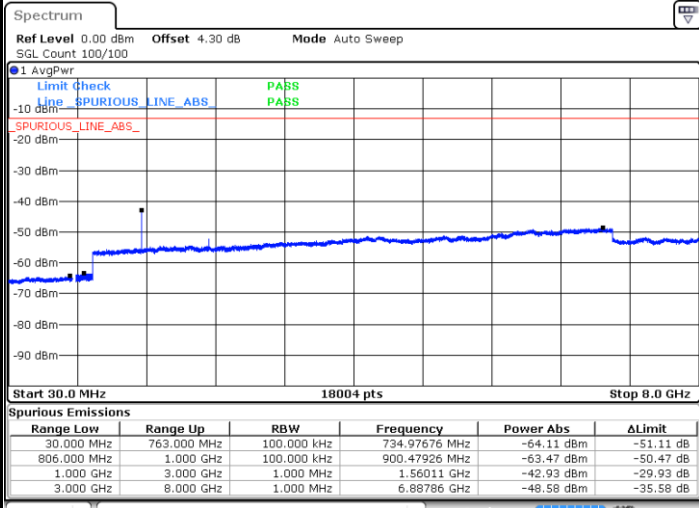
Date: 8 SEP.2018 09:05:49



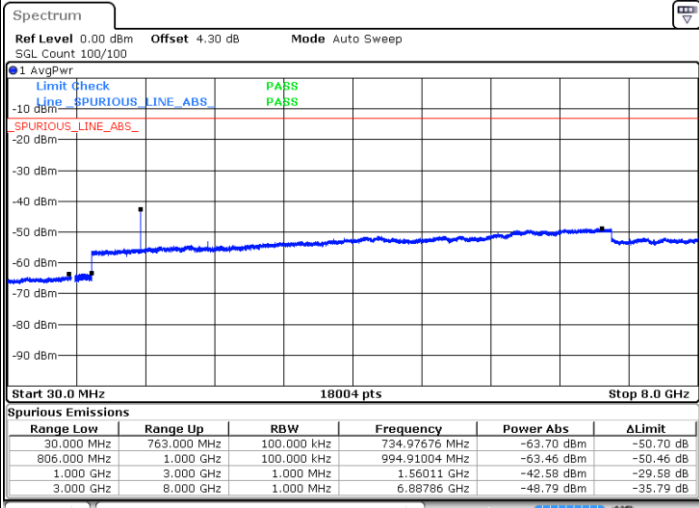
Date: 8 SEP.2018 09:04:55

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 8 SEP.2018 09:07:23

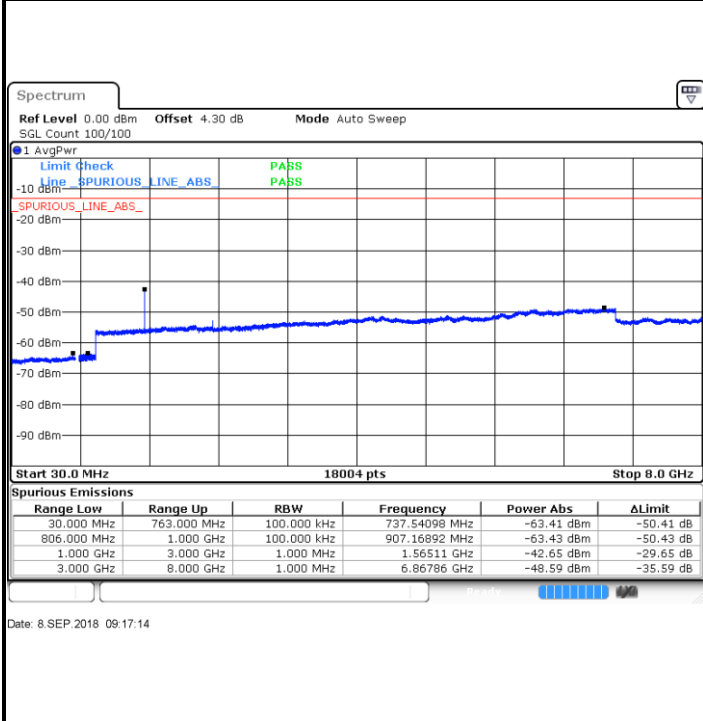


Date: 8 SEP.2018 09:08:17

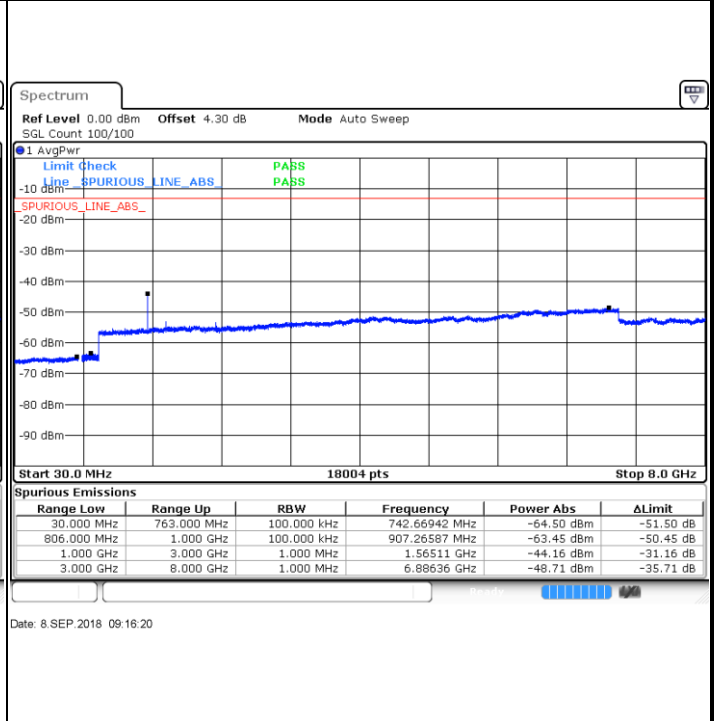


**LTE Band 13 / 5MHz**

**Highest Channel / QPSK**



**Highest Channel / 16QAM**

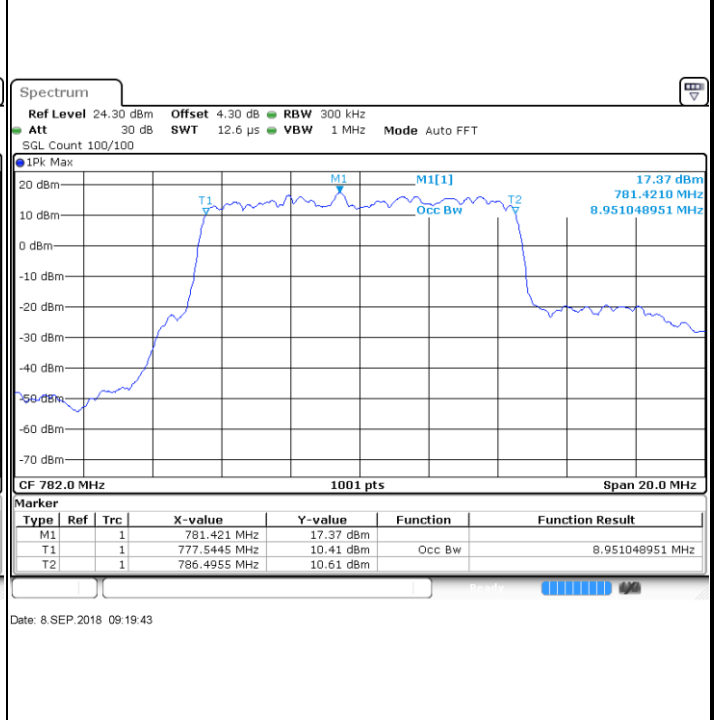


**LTE Band 13 / 10MHz**

**Middle Channel / QPSK**



**Middle Channel / 16QAM**

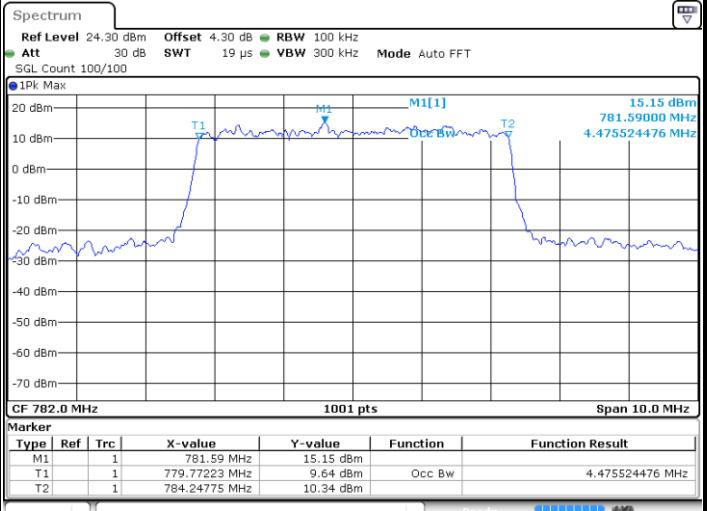
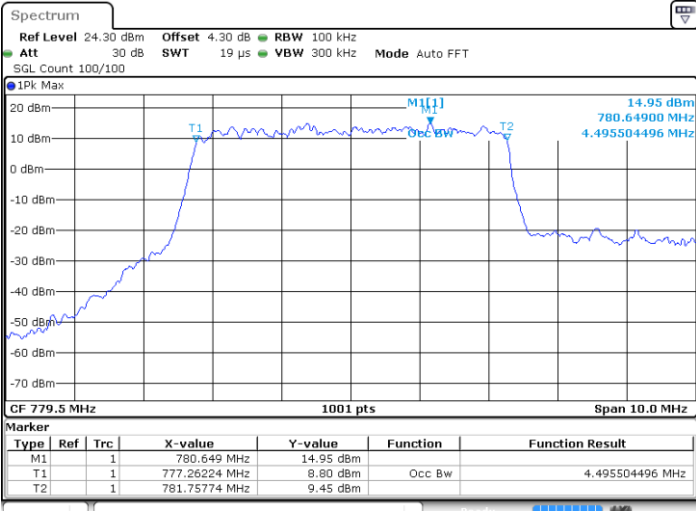




LTE Band 13 / 5MHz

Lowest Channel / 64QAM

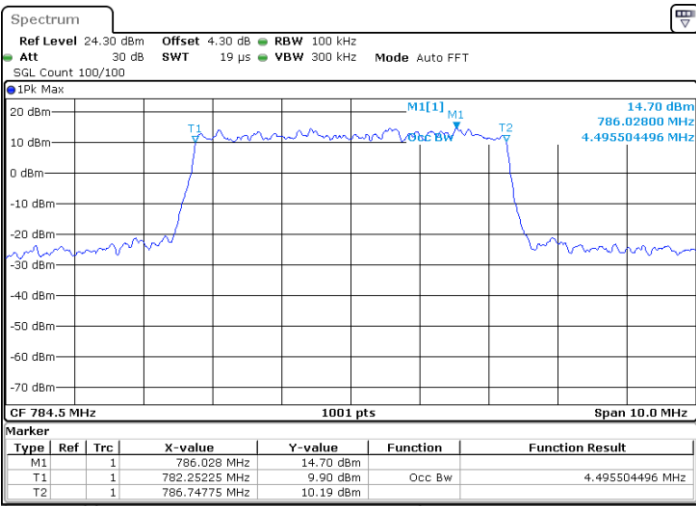
Middle Channel / 64QAM



Date: 8 SEP.2018 09:32:30

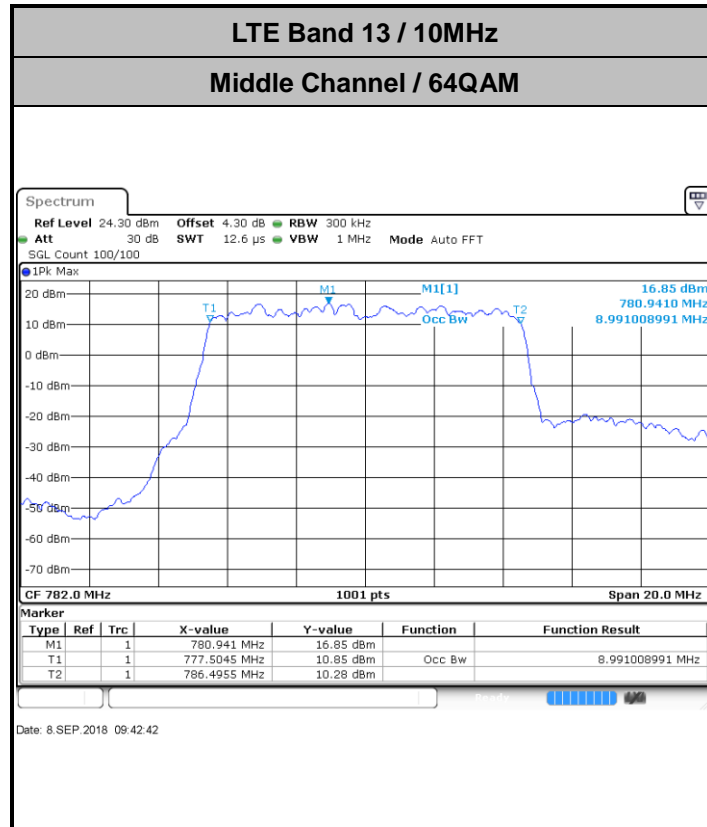
Date: 8 SEP.2018 09:32:40

Highest Channel / 64QAM



Date: 8 SEP.2018 09:32:50







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	0.0038	PASS
40	Normal Voltage	0.0019	
30	Normal Voltage	0.0043	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0022	
0	Normal Voltage	0.0005	
-10	Normal Voltage	0.0018	
-20	Normal Voltage	0.0040	
-30	Normal Voltage	0.0028	
20	Maximum Voltage	0.0051	
20	Normal Voltage	0.0008	
20	Battery End Point	0.0001	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 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	3.62	4.64	5.3	6	PASS
Middle CH	3.62	4.64	5.01	5.62	
Highest CH	3.45	4.7	4.17	5.59	
Mode	LTE Band 17 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.03	6.35	-	-	PASS
Middle CH	5.86	6.20	-	-	
Highest CH	5.25	6.29	-	-	



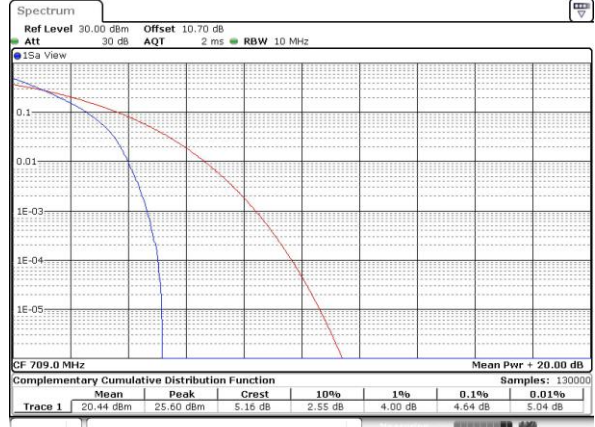
LTE Band 17 / 10MHz / QPSK

Lowest Channel / 1RB



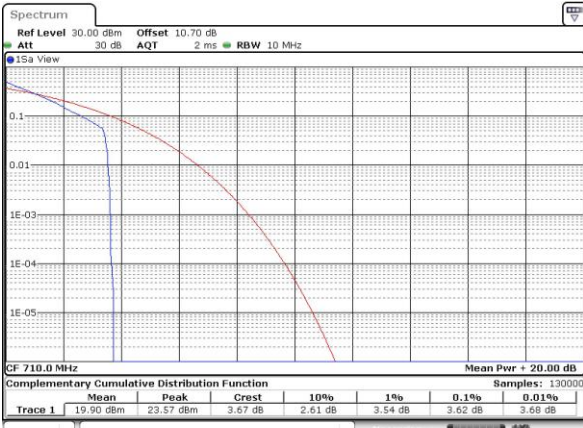
Date: 22 SEP 2018 06:16:26

Lowest Channel / Full RB



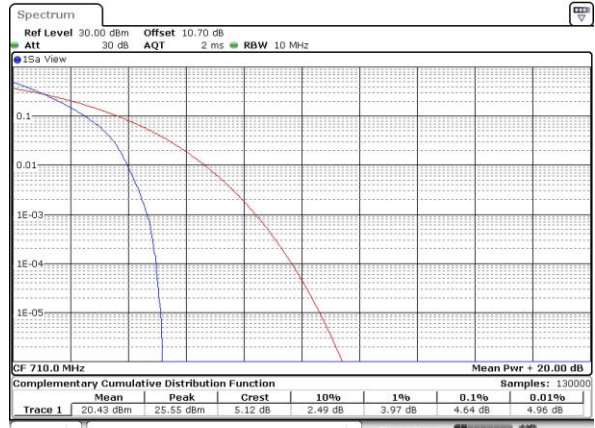
Date: 22 SEP 2018 06:16:36

Middle Channel / 1RB



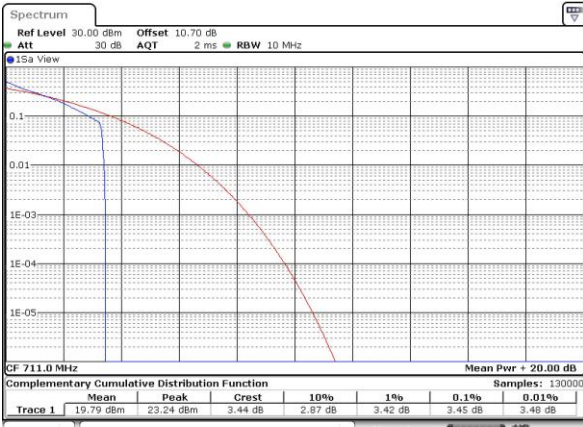
Date: 22 SEP 2018 06:16:46

Middle Channel / Full RB



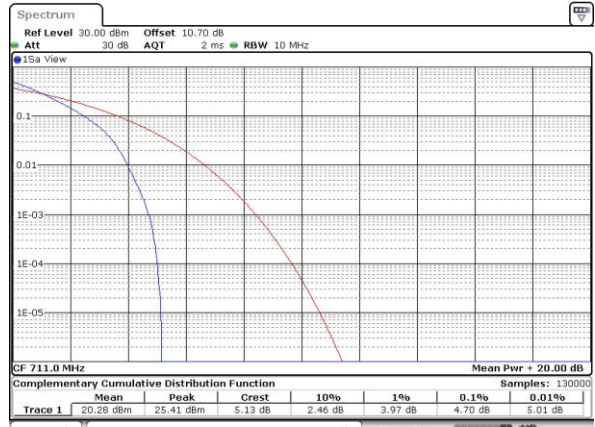
Date: 22 SEP 2018 06:16:56

Highest Channel / 1RB



Date: 22 SEP 2018 06:17:06

Highest Channel / Full RB



Date: 22 SEP 2018 06:17:16



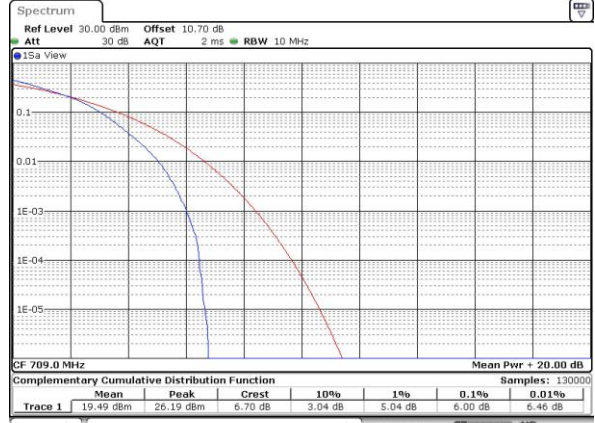
LTE Band 17 / 10MHz / 16QAM

Lowest Channel / 1RB



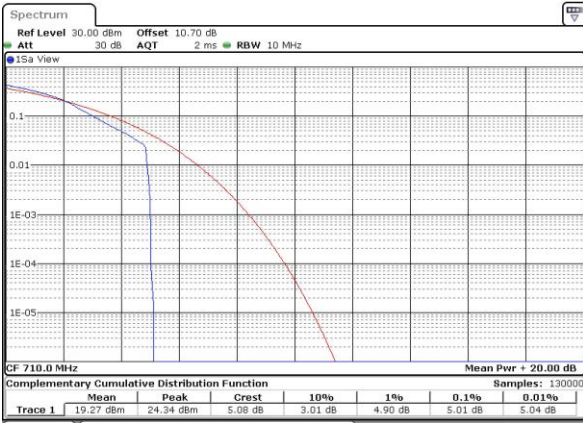
Date: 22 SEP 2018 06:15:26

Lowest Channel / Full RB



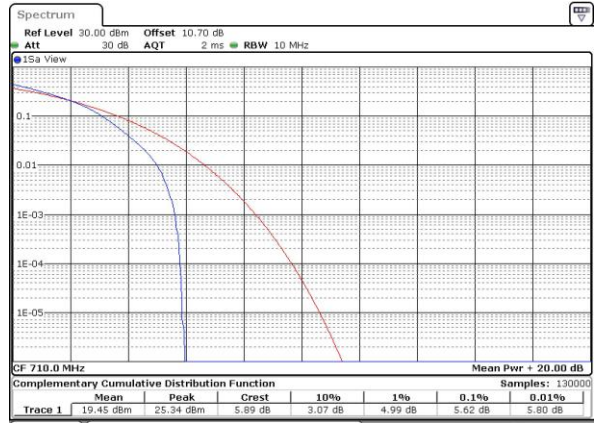
Date: 22 SEP 2018 06:15:37

Middle Channel / 1RB



Date: 22 SEP 2018 06:15:47

Middle Channel / Full RB



Date: 22 SEP 2018 06:15:57

Highest Channel / 1RB



Date: 22 SEP 2018 06:16:07

Highest Channel / Full RB

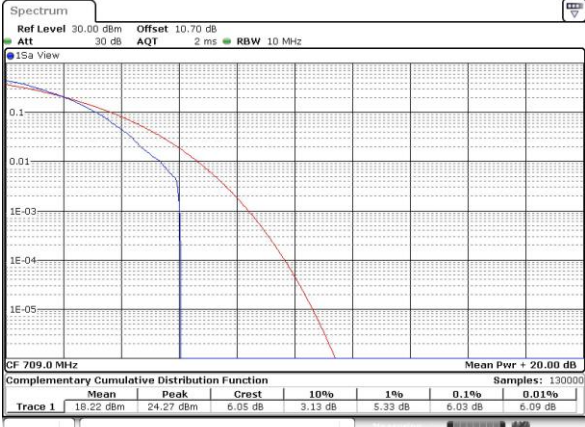


Date: 22 SEP 2018 06:16:16



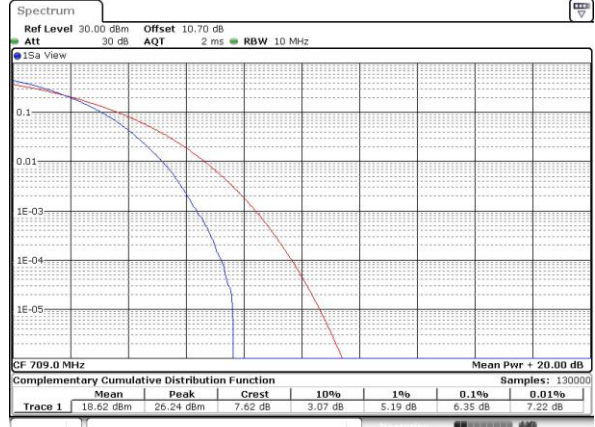
LTE Band 17 / 10MHz / 64QAM

Lowest Channel / 1RB



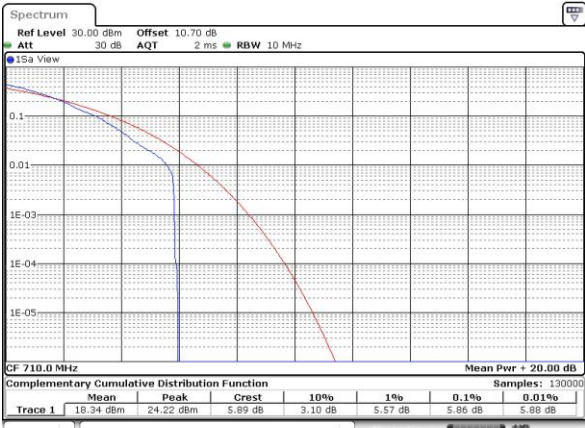
Date: 22 SEP 2018 06:17:26

Lowest Channel / Full RB



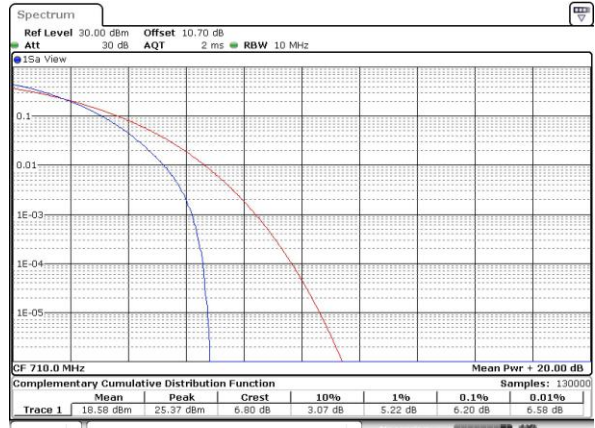
Date: 22 SEP 2018 06:17:36

Middle Channel / 1RB



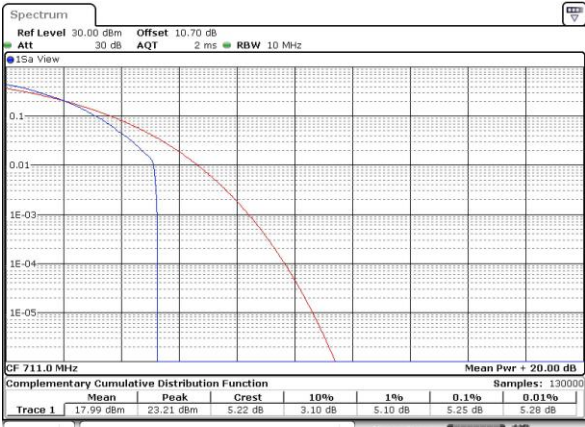
Date: 22 SEP 2018 06:17:46

Middle Channel / Full RB



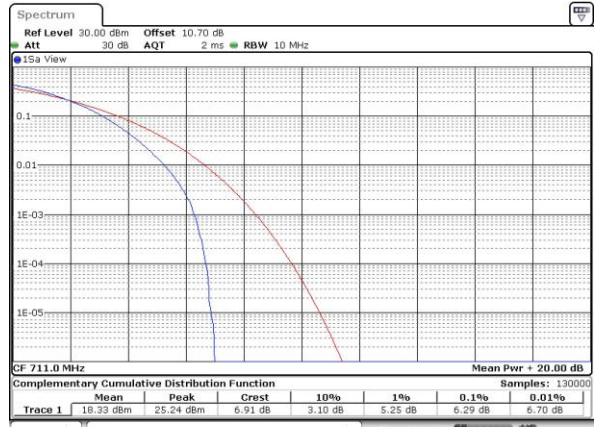
Date: 22 SEP 2018 06:17:56

Highest Channel / 1RB



Date: 22 SEP 2018 06:18:06

Highest Channel / Full RB



Date: 22 SEP 2018 06:18:15



**26dB Bandwidth**

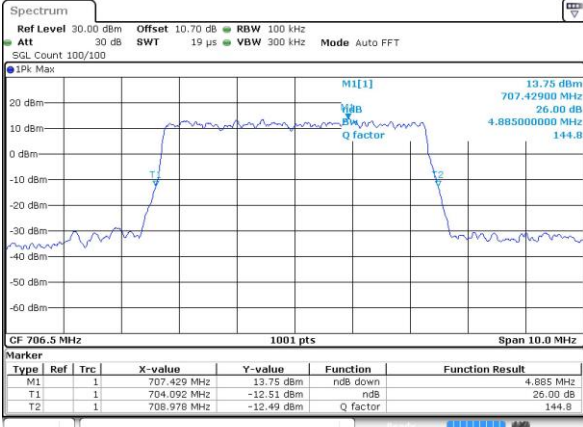
Mode	LTE Band 17 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.89	4.93	9.73	9.91	-	-	-	-
Middle CH	-	-	-	-	4.90	4.91	9.67	9.69	-	-	-	-
Highest CH	-	-	-	-	4.91	4.83	9.61	9.63	-	-	-	-
Mode	LTE Band 17 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.91	-	9.73	-	-	-	-	-
Middle CH	-	-	-	-	4.94	-	9.93	-	-	-	-	-
Highest CH	-	-	-	-	4.85	-	9.81	-	-	-	-	-





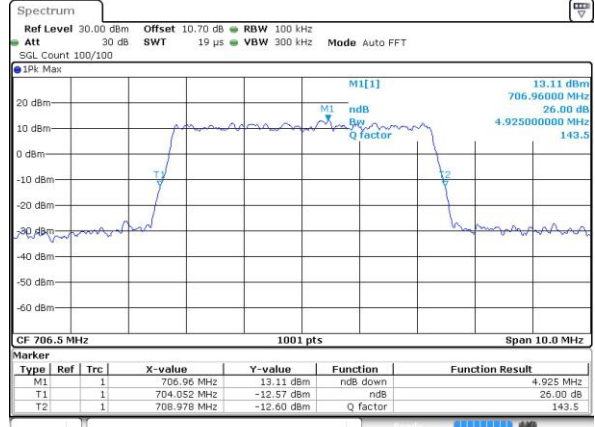
LTE Band 17

Lowest Channel / 5MHz / QPSK



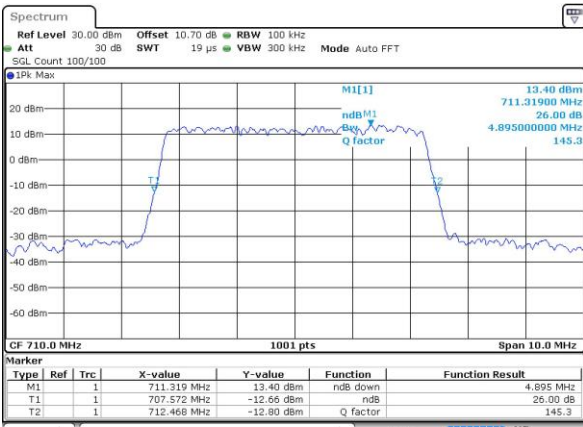
Date: 22 SEP 2018 05:22:51

Lowest Channel / 5MHz / 16QAM



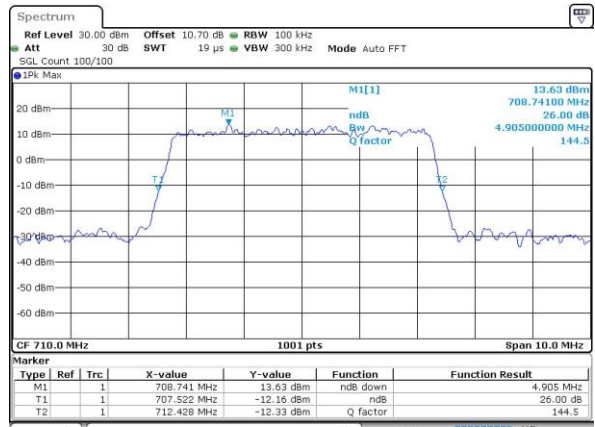
Date: 22 SEP 2018 05:23:02

Middle Channel / 5MHz / QPSK



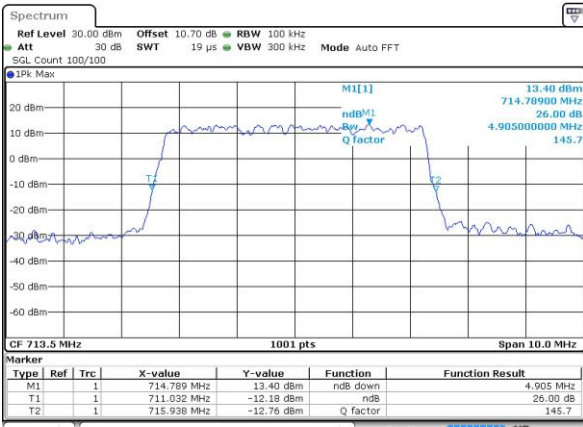
Date: 22 SEP 2018 05:30:17

Middle Channel / 5MHz / 16QAM



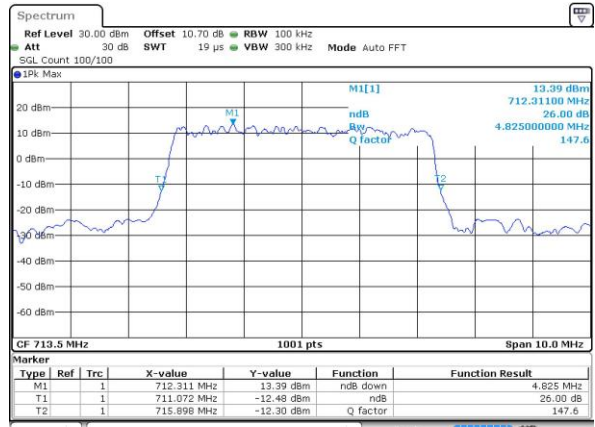
Date: 22 SEP 2018 05:30:29

Highest Channel / 5MHz / QPSK



Date: 22 SEP 2018 05:33:03

Highest Channel / 5MHz / 16QAM



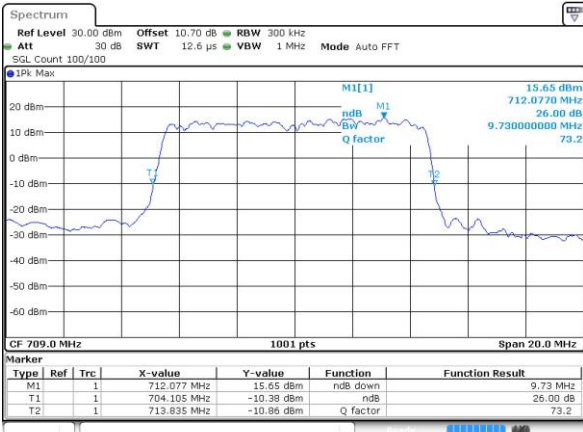
Date: 22 SEP 2018 05:33:14





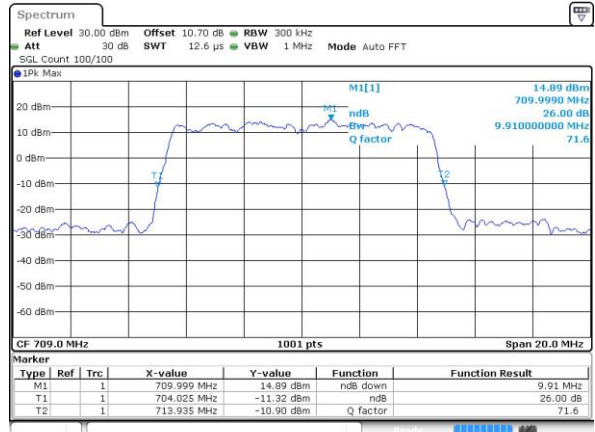
LTE Band 17

Lowest Channel / 10MHz / QPSK



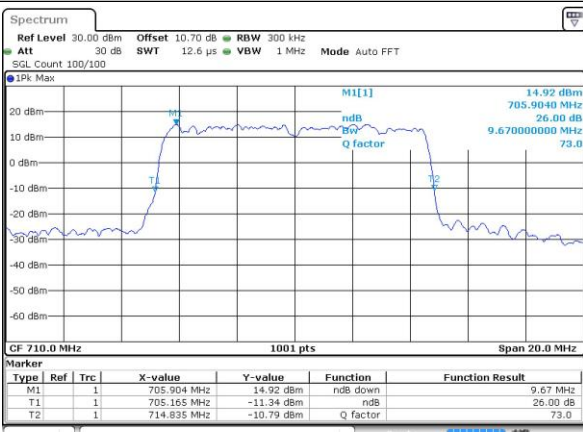
Date: 22 SEP 2018 05:40:29

Lowest Channel / 10MHz / 16QAM



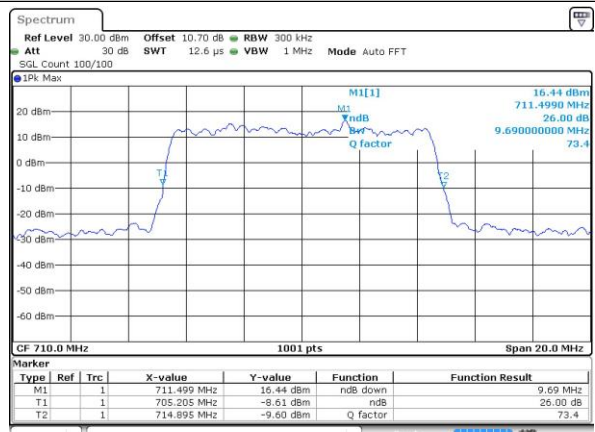
Date: 22 SEP 2018 05:40:41

Middle Channel / 10MHz / QPSK



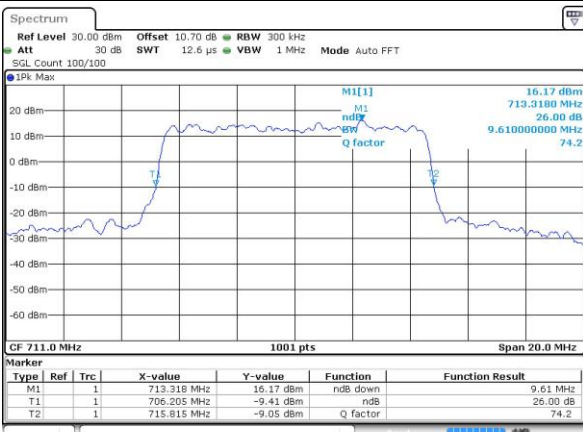
Date: 22 SEP 2018 05:47:55

Middle Channel / 10MHz / 16QAM



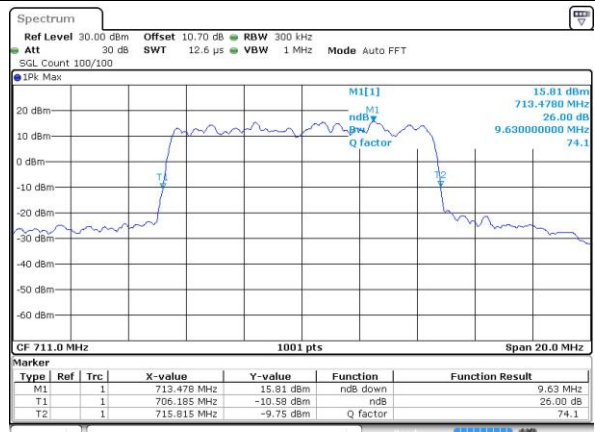
Date: 22 SEP 2018 05:48:07

Highest Channel / 10MHz / QPSK



Date: 22 SEP 2018 05:50:41

Highest Channel / 10MHz / 16QAM

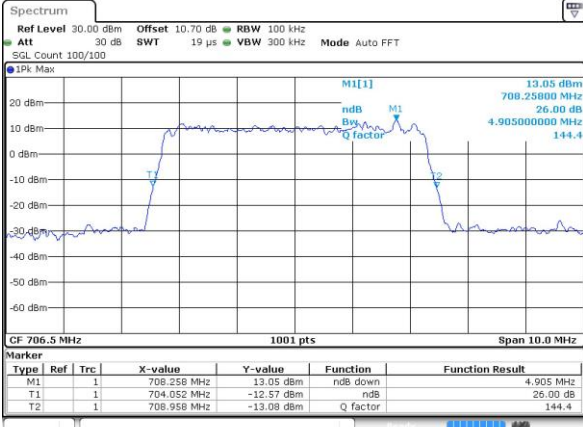


Date: 22 SEP 2018 05:50:53



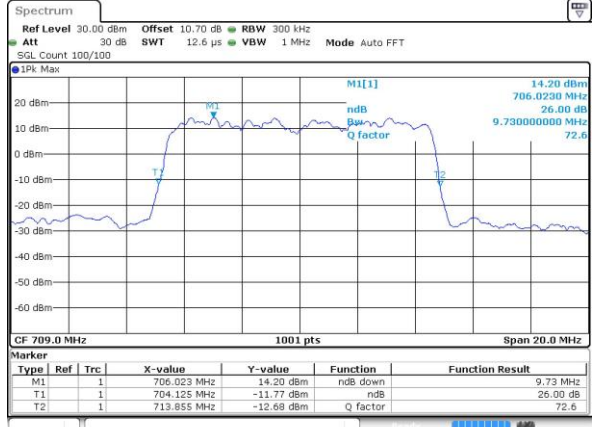
LTE Band 17

Lowest Channel / 5MHz / 64QAM



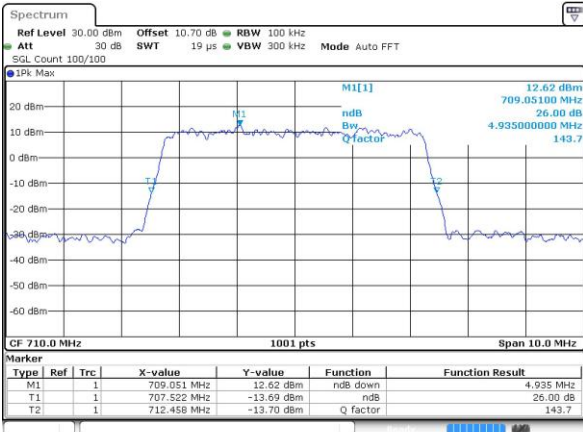
Date: 22 SEP 2018 05:57:56

Lowest Channel / 10MHz / 64QAM



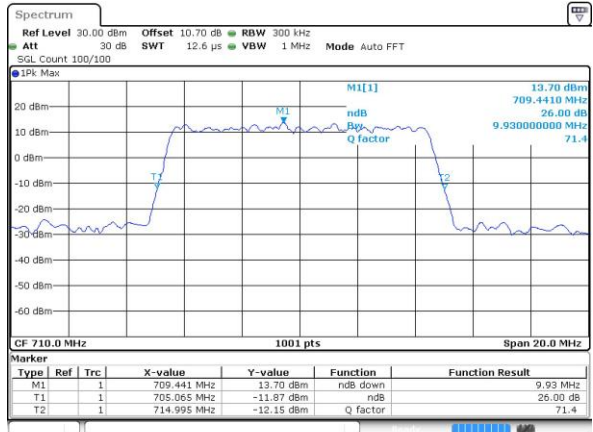
Date: 22 SEP 2018 06:06:45

Middle Channel / 5MHz / 64QAM



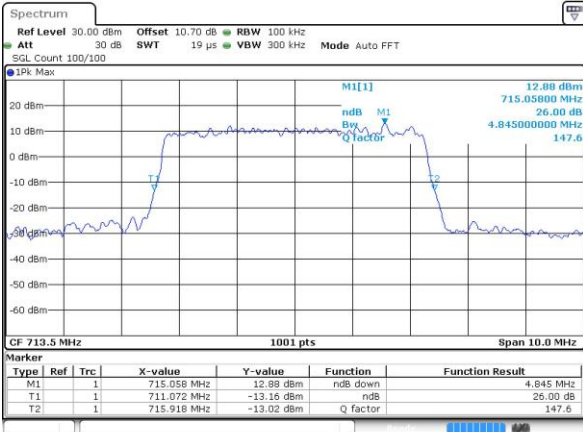
Date: 22 SEP 2018 06:01:39

Middle Channel / 10MHz / 64QAM



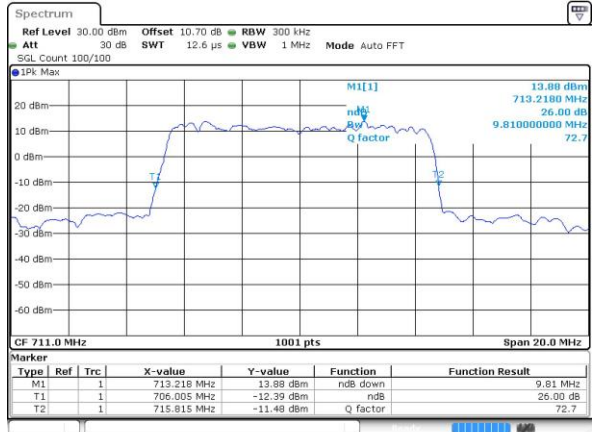
Date: 22 SEP 2018 06:10:28

Highest Channel / 5MHz / 64QAM



Date: 22 SEP 2018 06:03:02

Highest Channel / 10MHz / 64QAM



Date: 22 SEP 2018 06:11:51



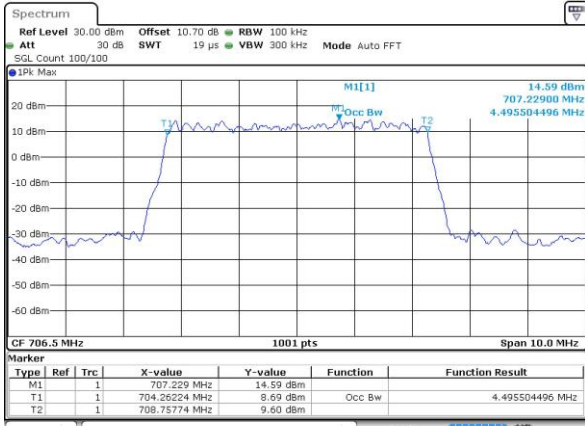
**Occupied Bandwidth**

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	-	-	-	-	4.5	4.47	9.01	9.07	-	-	-	-
Middle CH	-	-	-	-	4.49	4.49	8.97	9.01	-	-	-	-
Highest CH	-	-	-	-	4.48	4.5	9.07	9.01	-	-	-	-
Mode	LTE Band 17 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.49	-	9.09	-	-	-	-	-
Middle CH	-	-	-	-	4.49	-	9.03	-	-	-	-	-
Highest CH	-	-	-	-	4.47	-	9.07	-	-	-	-	-



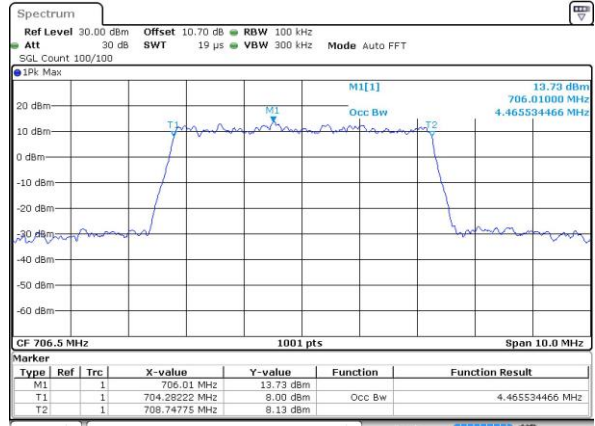
LTE Band 17

Lowest Channel / 5MHz / QPSK



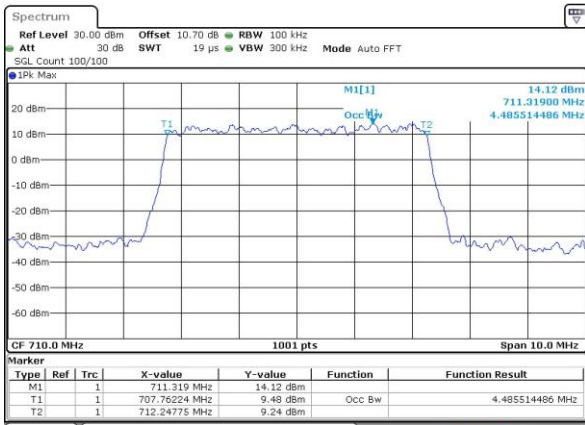
Date: 22 SEP 2018 05:22:28

Lowest Channel / 5MHz / 16QAM



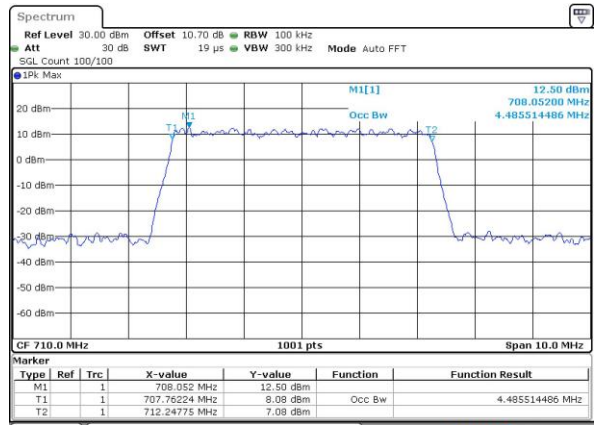
Date: 22 SEP 2018 05:22:40

Middle Channel / 5MHz / QPSK



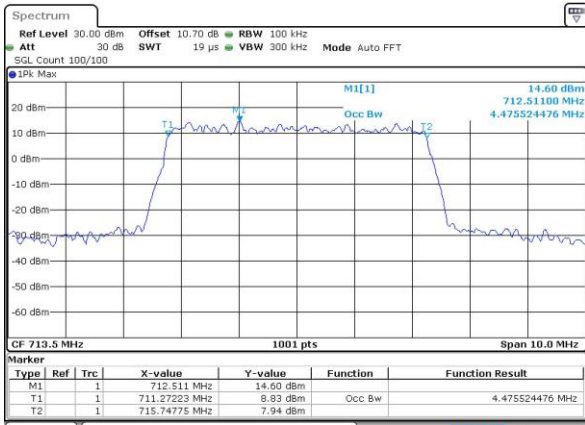
Date: 22 SEP 2018 05:29:54

Middle Channel / 5MHz / 16QAM



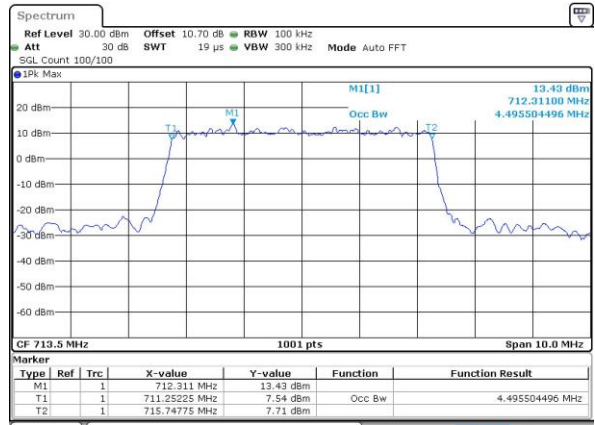
Date: 22 SEP 2018 05:30:06

Highest Channel / 5MHz / QPSK



Date: 22 SEP 2018 05:32:40

Highest Channel / 5MHz / 16QAM

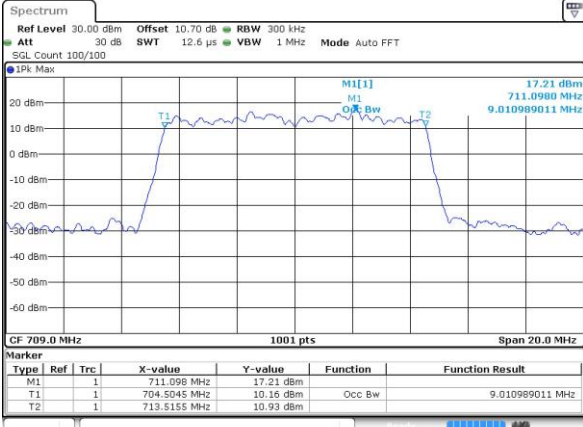


Date: 22 SEP 2018 05:32:52



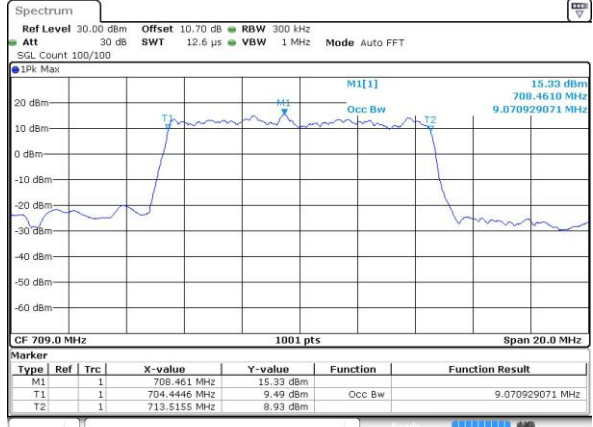
LTE Band 17

Lowest Channel / 10MHz / QPSK



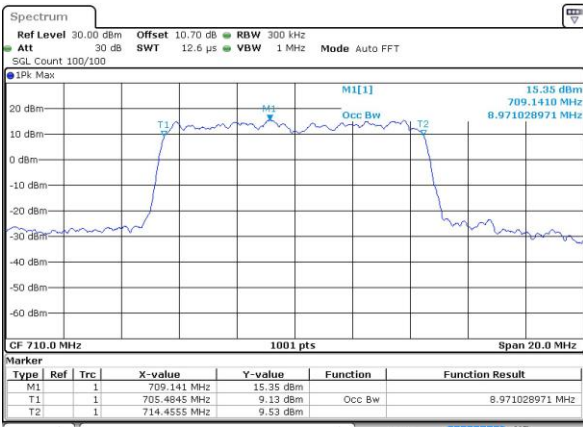
Date: 22 SEP 2018 05:40:07

Lowest Channel / 10MHz / 16QAM



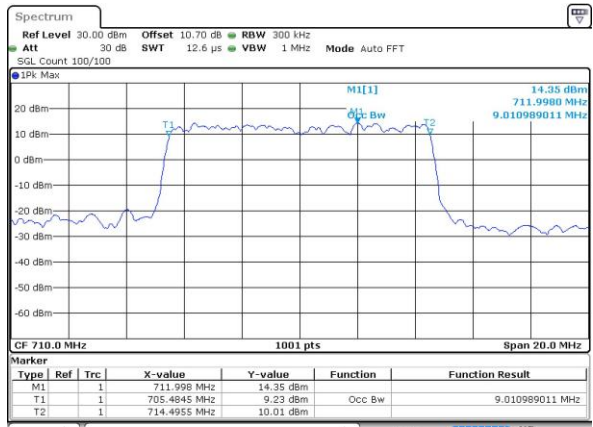
Date: 22 SEP 2018 05:40:18

Middle Channel / 10MHz / QPSK



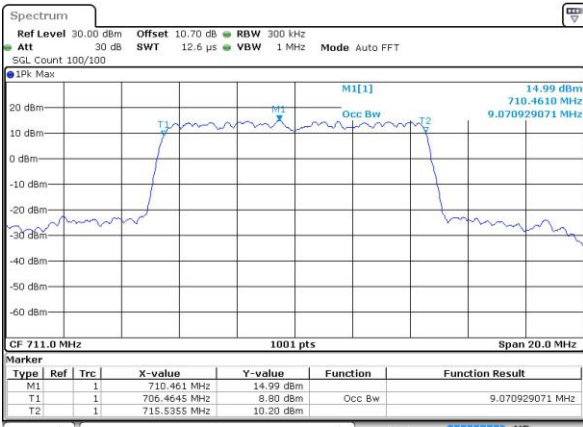
Date: 22 SEP 2018 05:47:33

Middle Channel / 10MHz / 16QAM



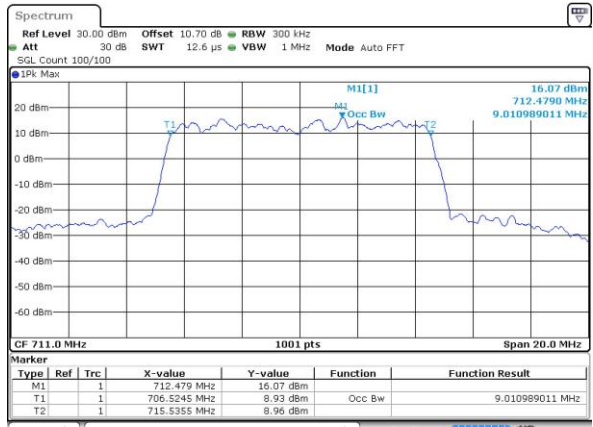
Date: 22 SEP 2018 05:47:44

Highest Channel / 10MHz / QPSK



Date: 22 SEP 2018 05:50:18

Highest Channel / 10MHz / 16QAM

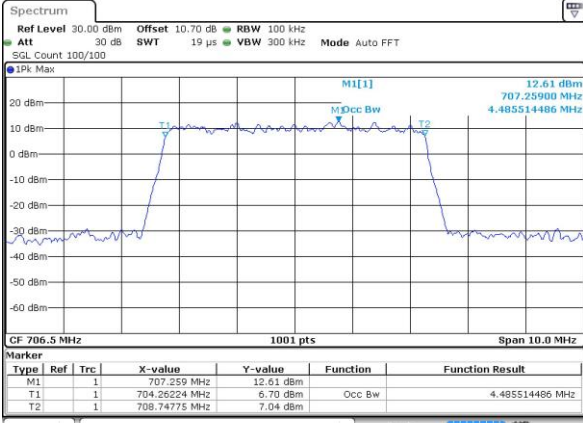


Date: 22 SEP 2018 05:50:30



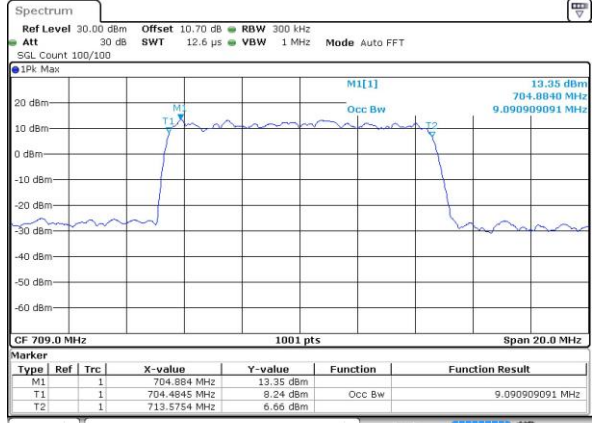
LTE Band 17

Lowest Channel / 5MHz / 64QAM



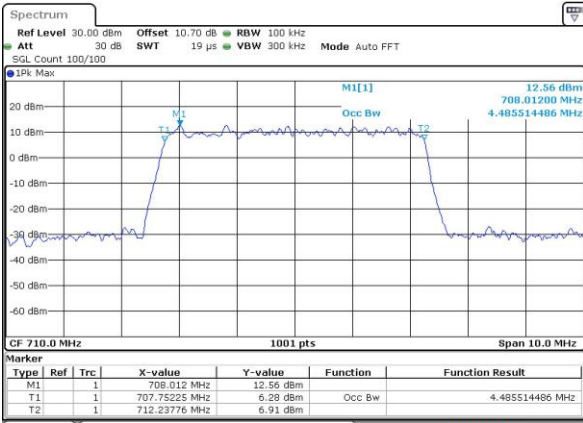
Date: 22 SEP 2018 05:57:45

Lowest Channel / 10MHz / 64QAM



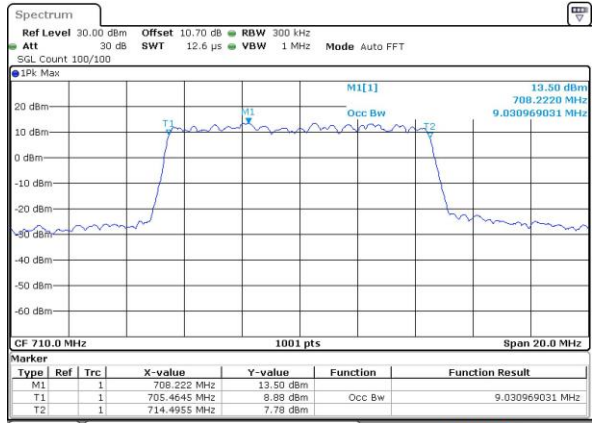
Date: 22 SEP 2018 06:06:34

Middle Channel / 5MHz / 64QAM



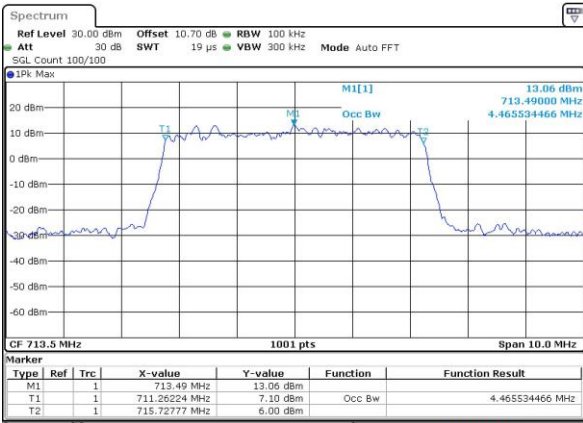
Date: 22 SEP 2018 06:01:28

Middle Channel / 10MHz / 64QAM



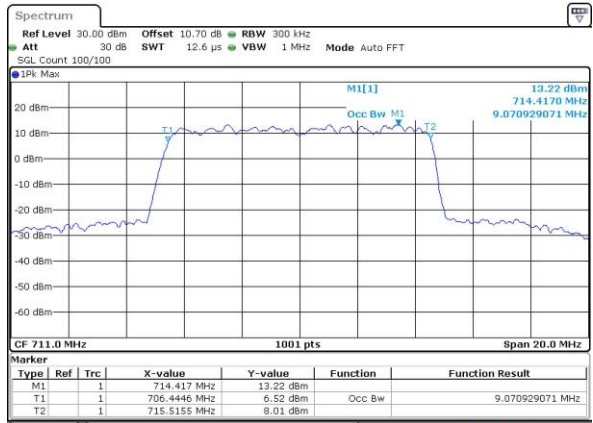
Date: 22 SEP 2018 06:10:17

Highest Channel / 5MHz / 64QAM



Date: 22 SEP 2018 06:02:51

Highest Channel / 10MHz / 64QAM



Date: 22 SEP 2018 06:11:40



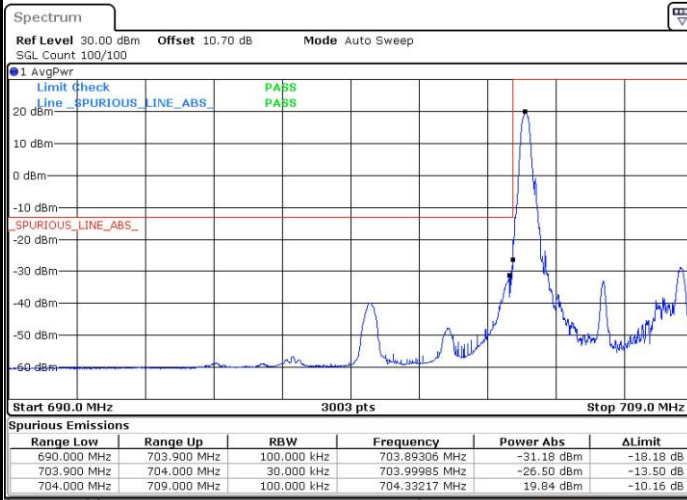
**Conducted Band Edge**





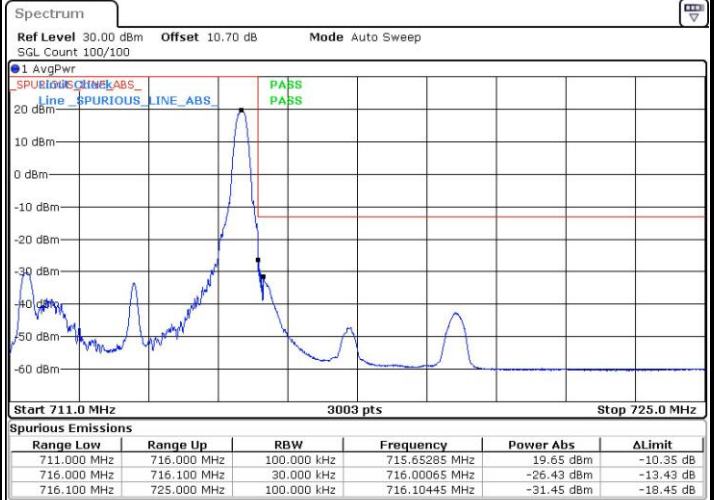
LTE Band 17 / 5MHz / QPSK

Lowest Band Edge / 1 RB



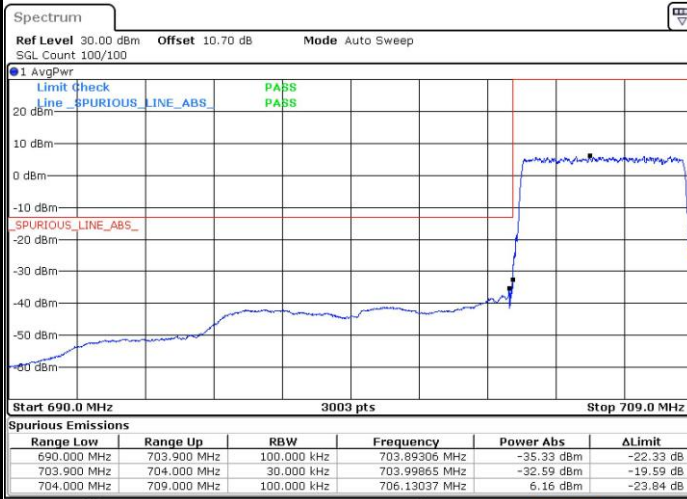
Date: 22 SEP 2018 05:24:12

Highest Band Edge / 1 RB



Date: 22 SEP 2018 05:34:24

Lowest Band Edge / Full RB



Date: 22 SEP 2018 05:26:32

Highest Band Edge / Full RB



Date: 22 SEP 2018 05:36:44