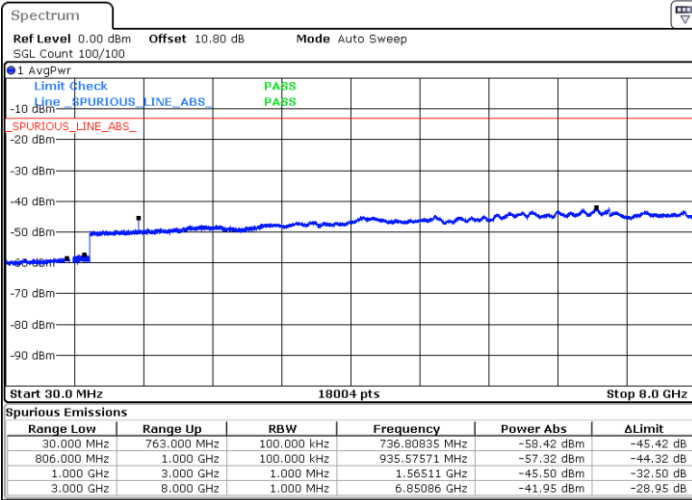




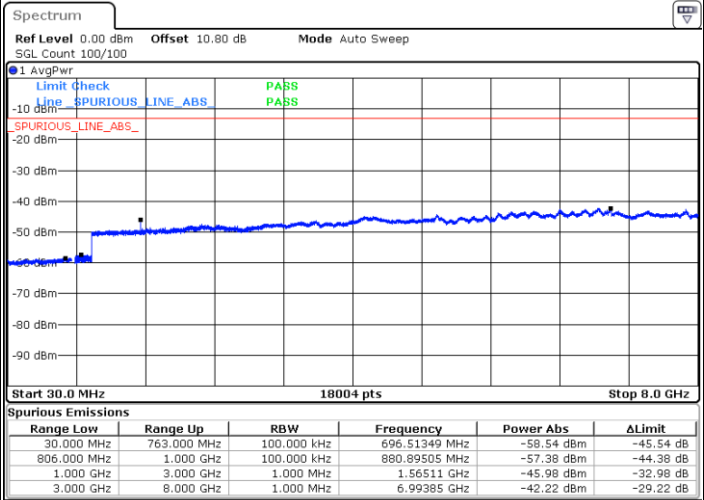
LTE Band 13 / 5MHz

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 3 AUG.2017 20:06:57

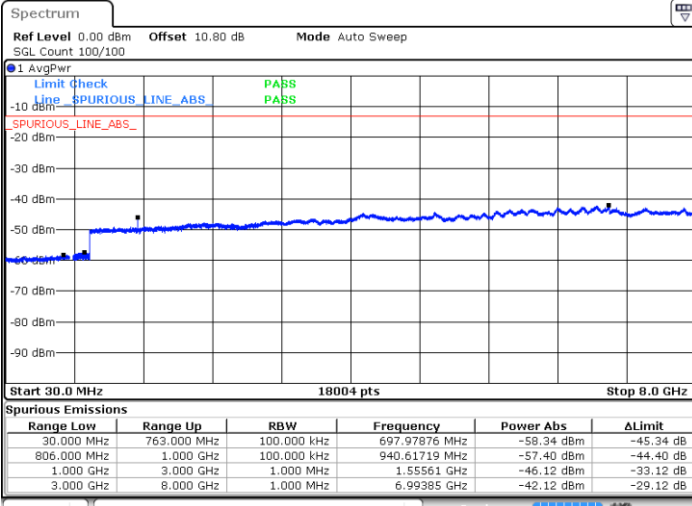


Date: 3 AUG.2017 20:07:51

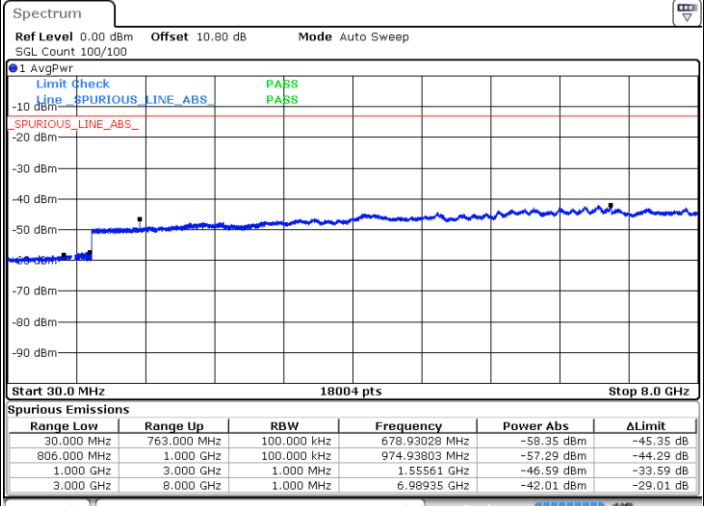
LTE Band 13 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 3 AUG.2017 20:20:11



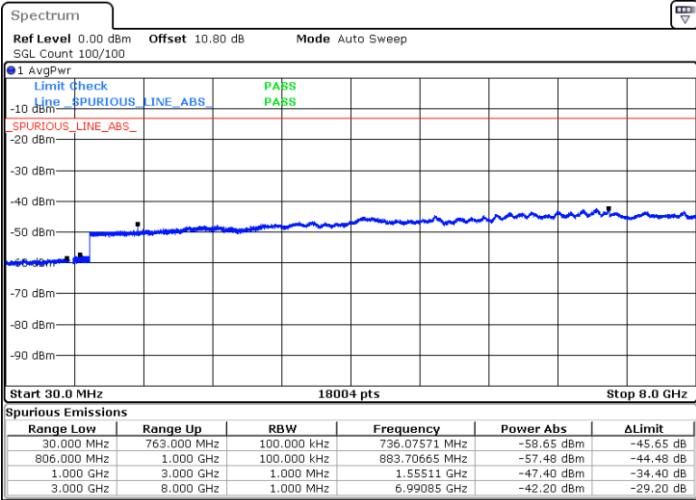
Date: 3 AUG.2017 20:19:17



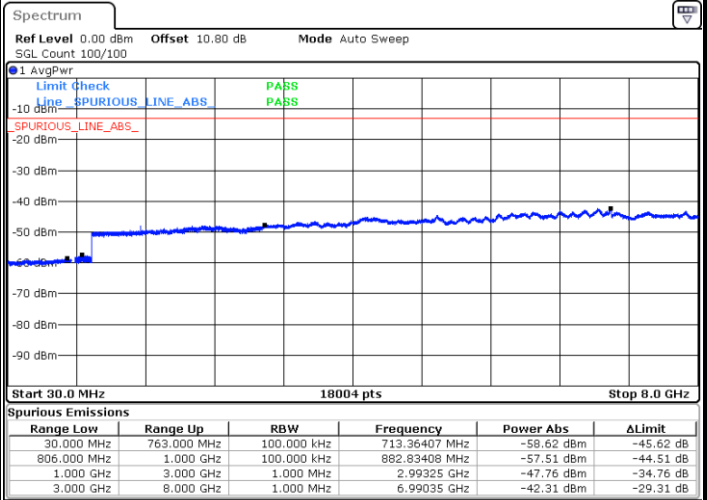
LTE Band 13 / 5MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

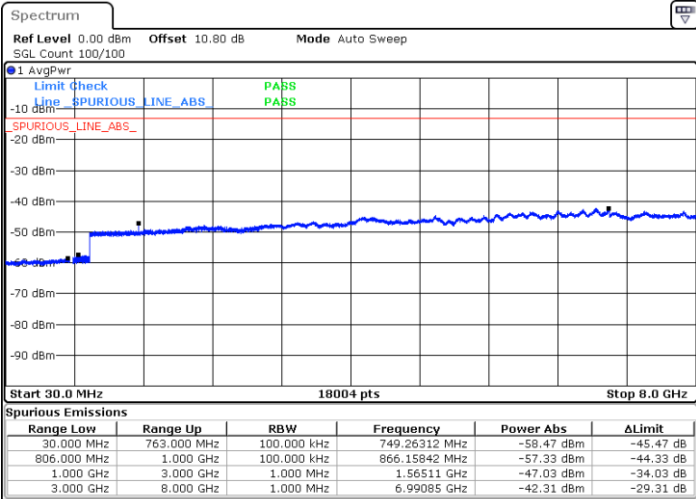


Date: 11.OCT.2017 10:30:16



Date: 11.OCT.2017 10:31:10

Highest Channel / 64QAM

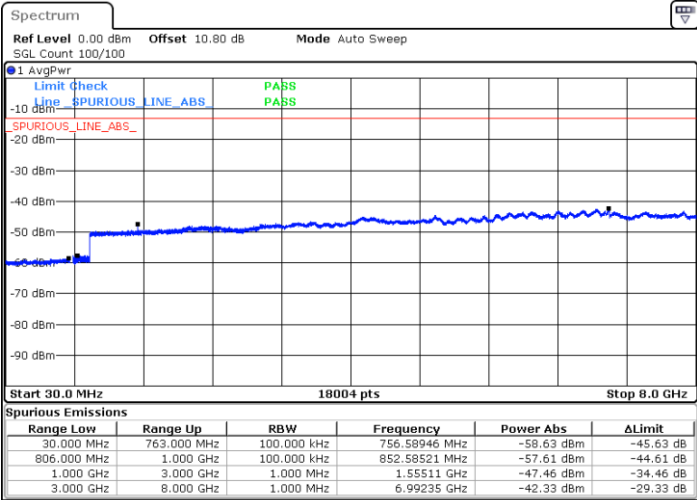


Date: 11.OCT.2017 10:36:01



LTE Band 13 / 10MHz

Middle Channel / 64QAM



Date: 11.OCT.2017 10:42:11



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	0.0001	PASS
40	Normal Voltage	0.0012	
30	Normal Voltage	0.0054	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0045	
0	Normal Voltage	0.0009	
-10	Normal Voltage	0.0027	
-20	Normal Voltage	0.0047	
-30	Normal Voltage	0.0026	
20	Maximum Voltage	0.0024	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0004	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 17

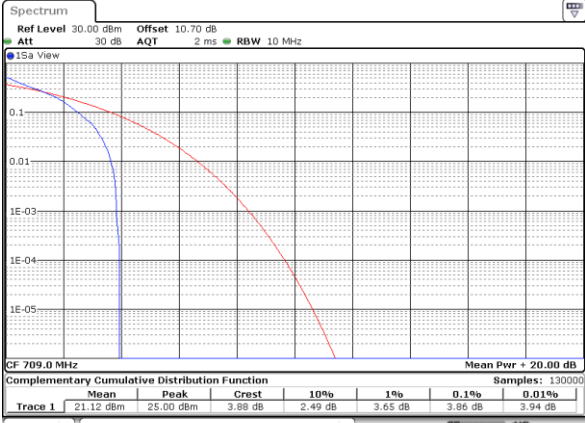
Peak-to-Average Ratio

Mode	LTE Band 17 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.86	4.87	4.9	5.68	PASS
Middle CH	3.86	4.84	4.84	5.71	
Highest CH	3.91	4.78	4.55	5.71	
Mode	LTE Band 17 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	5.54	6.32	-	-	PASS
Middle CH	5.36	6.26	-	-	
Highest CH	5.28	6.23	-	-	



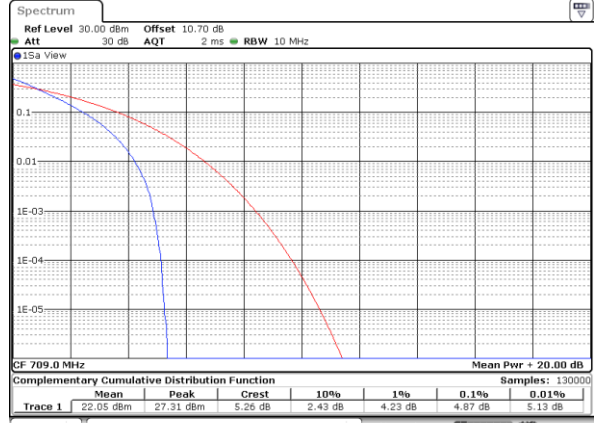
LTE Band 17 / 10MHz / QPSK

Lowest Channel / 1RB



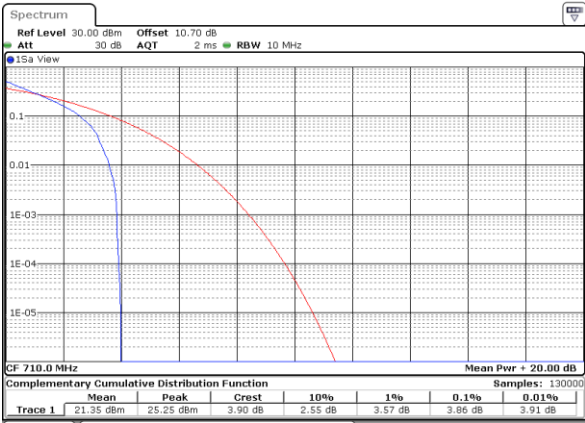
Date: 4 AUG 2017 00:12:18

Lowest Channel / Full RB



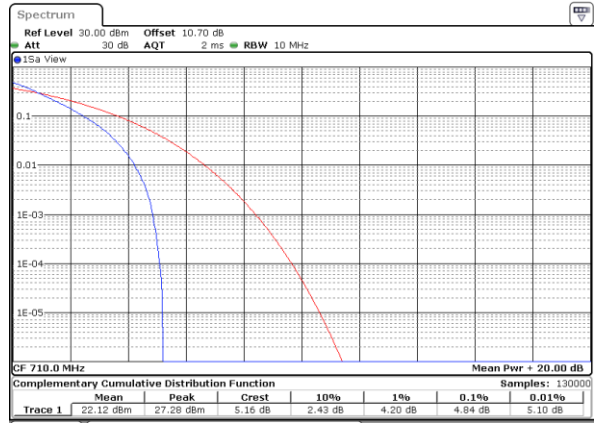
Date: 4 AUG 2017 00:12:29

Middle Channel / 1RB



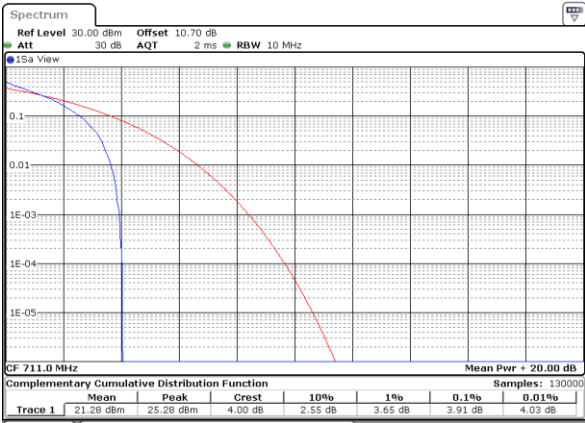
Date: 4 AUG 2017 00:12:37

Middle Channel / Full RB



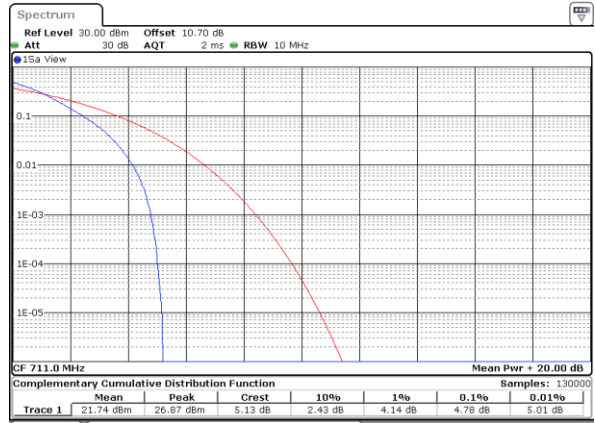
Date: 4 AUG 2017 00:12:47

Highest Channel / 1RB



Date: 4 AUG 2017 00:13:03

Highest Channel / Full RB

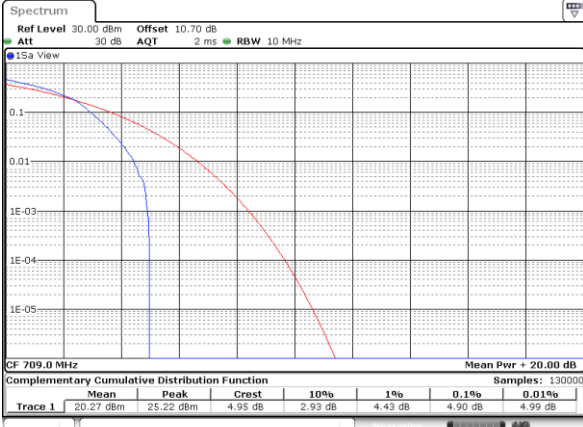


Date: 4 AUG 2017 00:13:19



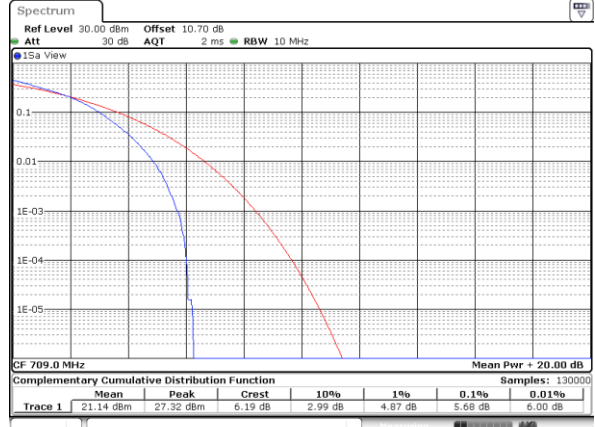
LTE Band 17 / 10MHz / 16QAM

Lowest Channel / 1RB



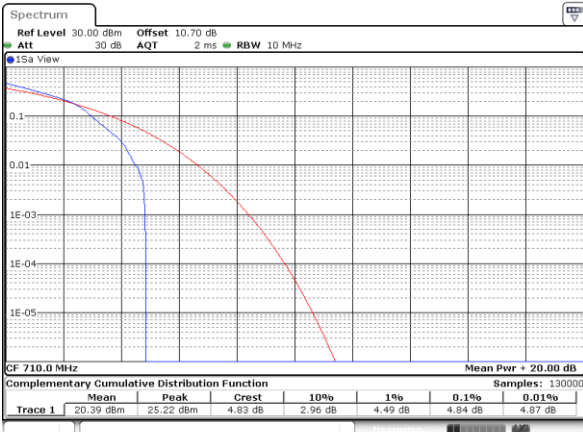
Date: 4 AUG 2017 00:09:42

Lowest Channel / Full RB



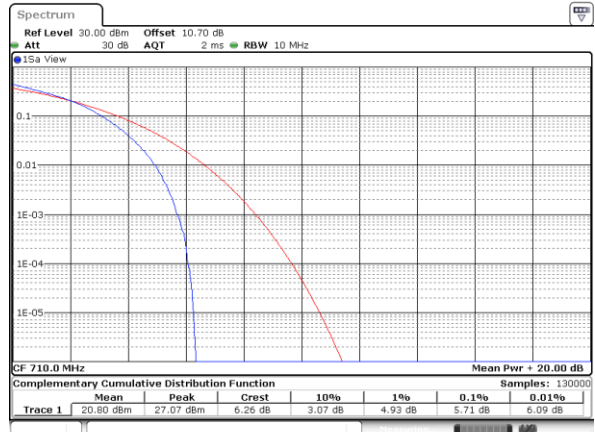
Date: 4 AUG 2017 00:10:10

Middle Channel / 1RB



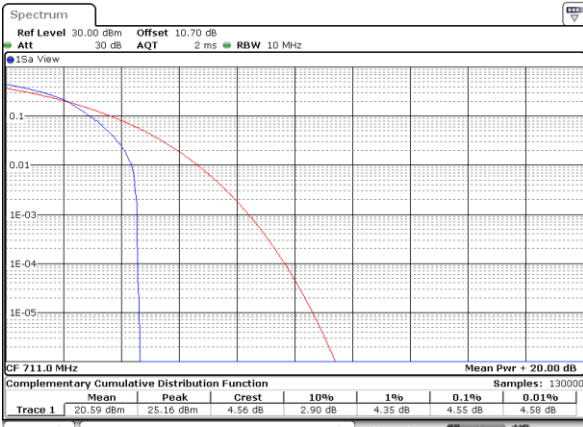
Date: 4 AUG 2017 00:10:21

Middle Channel / Full RB



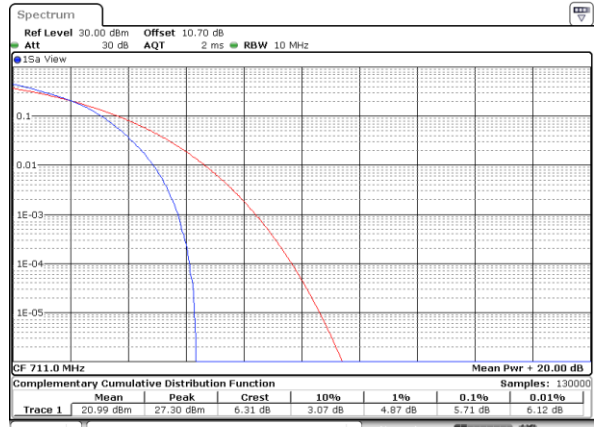
Date: 4 AUG 2017 00:10:30

Highest Channel / 1RB



Date: 4 AUG 2017 00:10:40

Highest Channel / Full RB

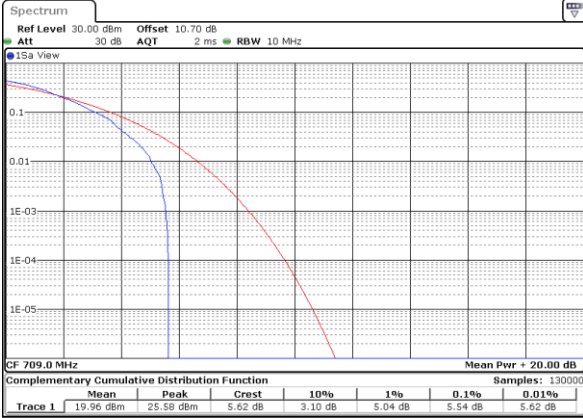


Date: 4 AUG 2017 00:10:06



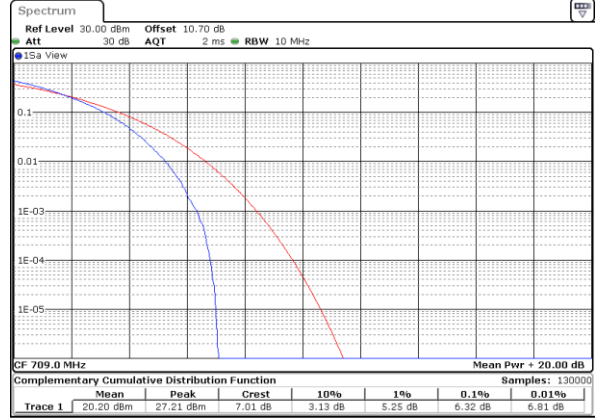
LTE Band 17 / 10MHz / 64QAM

Lowest Channel / 1RB



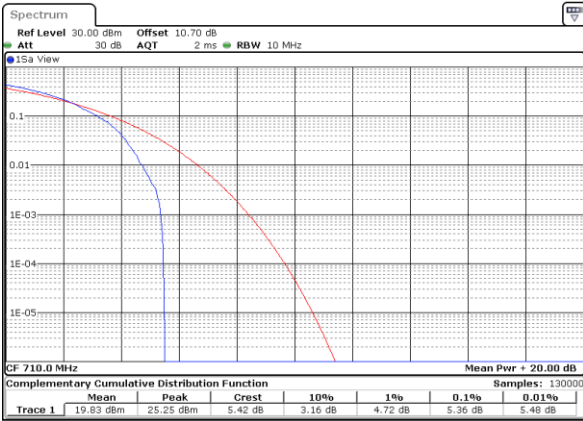
Date: 6 OCT 2017 22:54:47

Lowest Channel / Full RB



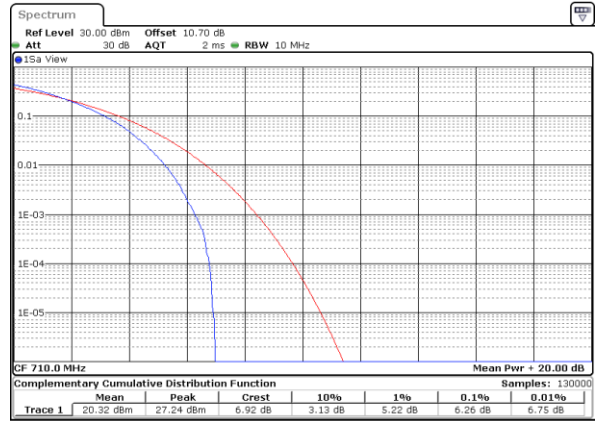
Date: 6 OCT 2017 22:54:58

Middle Channel / 1RB



Date: 6 OCT 2017 22:55:07

Middle Channel / Full RB



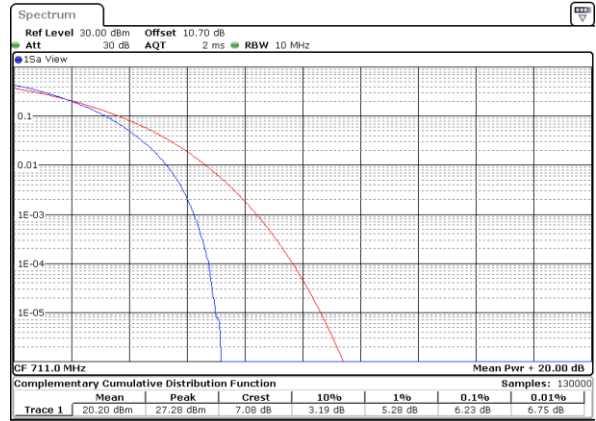
Date: 6 OCT 2017 22:55:15

Highest Channel / 1RB



Date: 6 OCT 2017 22:55:23

Highest Channel / Full RB



Date: 6 OCT 2017 22:55:31



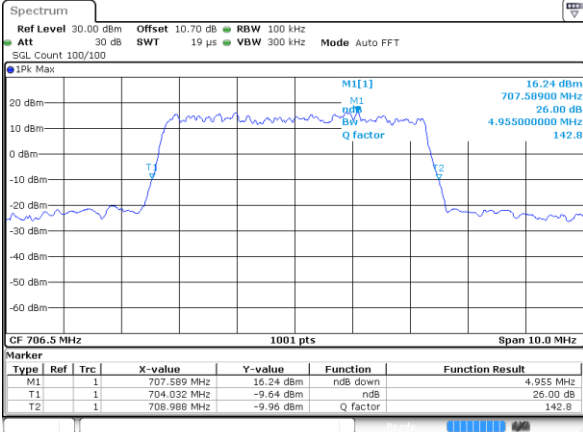
26dB Bandwidth

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	-	-	-	-	4.96	4.94	9.65	9.67	-	-	-	-
Middle CH	-	-	-	-	4.92	4.88	9.71	9.79	-	-	-	-
Highest CH	-	-	-	-	4.89	4.88	9.77	9.71	-	-	-	-
Mode	LTE Band 17 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.95	-	9.75	-	-	-	-	-
Middle CH	-	-	-	-	4.94	-	9.75	-	-	-	-	-
Highest CH	-	-	-	-	4.93	-	9.73	-	-	-	-	-



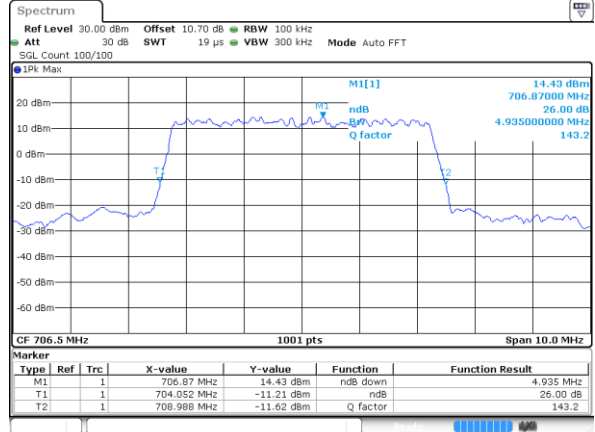
LTE Band 17

Lowest Channel / 5MHz / QPSK



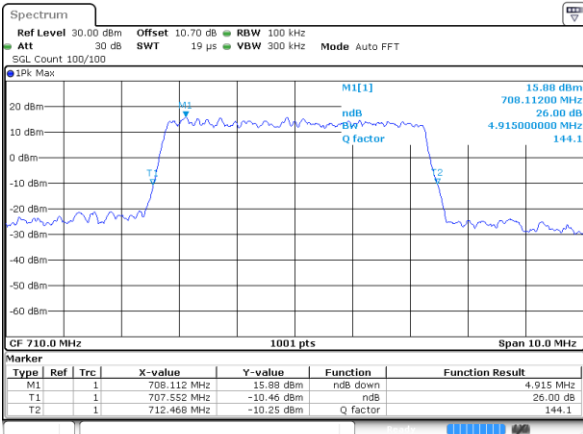
Date: 3 AUG 2017 21:42:41

Lowest Channel / 5MHz / 16QAM



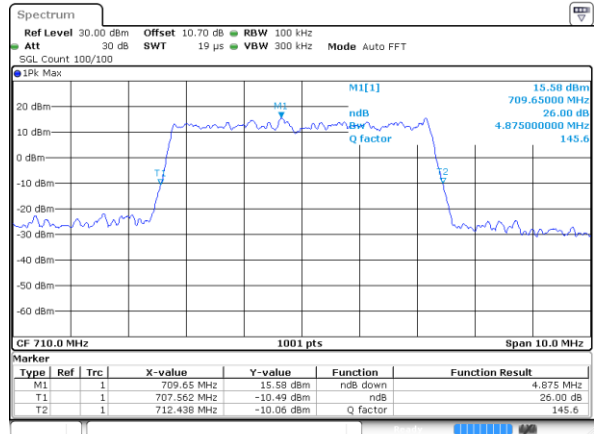
Date: 3 AUG 2017 21:42:52

Middle Channel / 5MHz / QPSK



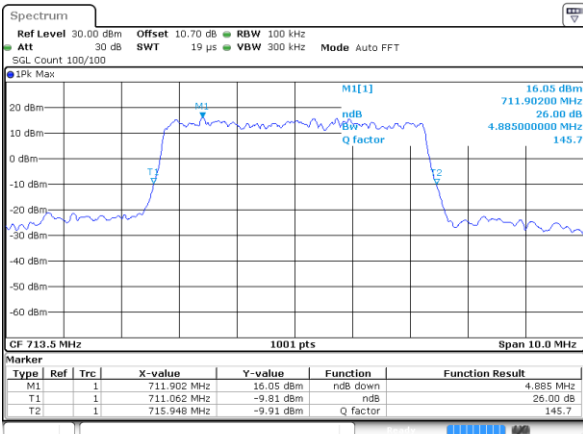
Date: 3 AUG 2017 21:49:44

Middle Channel / 5MHz / 16QAM



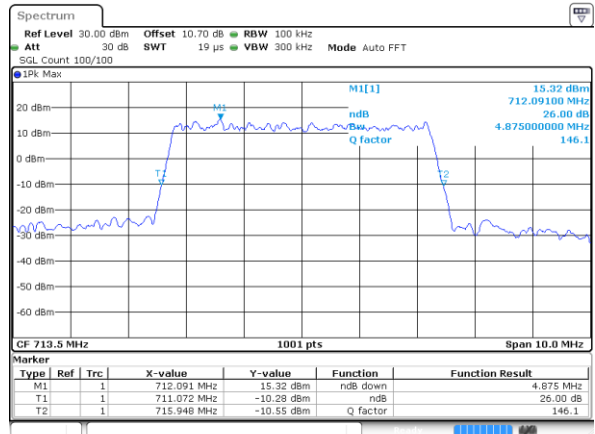
Date: 3 AUG 2017 21:49:54

Highest Channel / 5MHz / QPSK



Date: 3 AUG 2017 21:52:11

Highest Channel / 5MHz / 16QAM

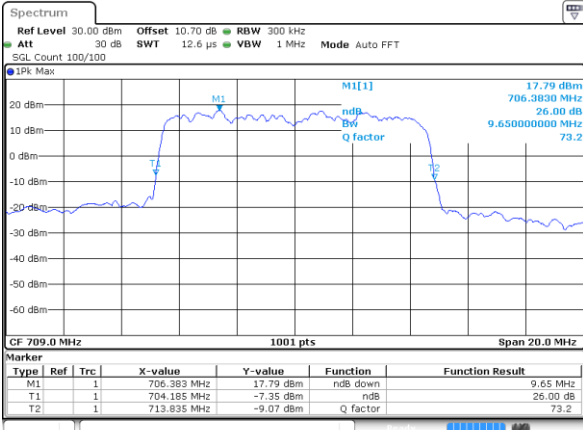


Date: 3 AUG 2017 21:52:21



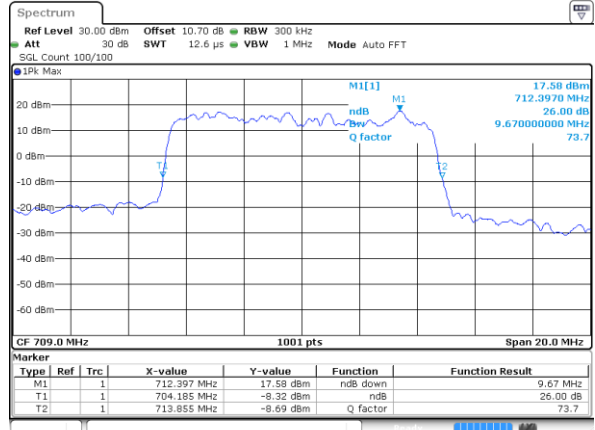
LTE Band 17

Lowest Channel / 10MHz / QPSK



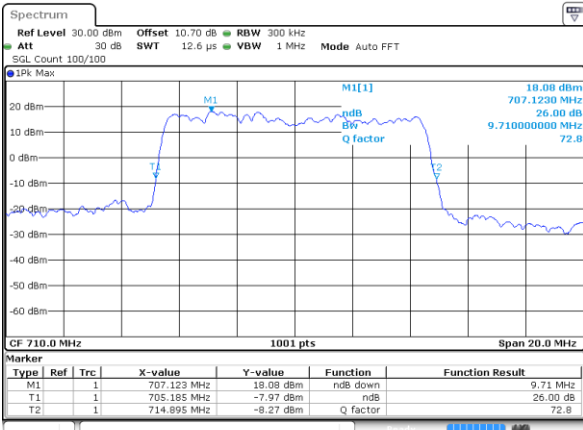
Date: 3.AUG.2017 21:59:14

Lowest Channel / 10MHz / 16QAM



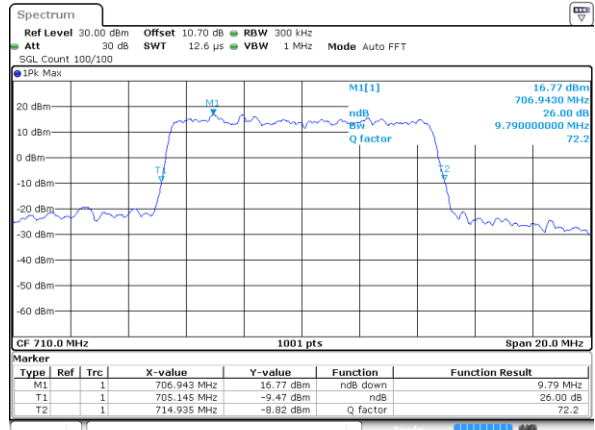
Date: 3.AUG.2017 21:59:24

Middle Channel / 10MHz / QPSK



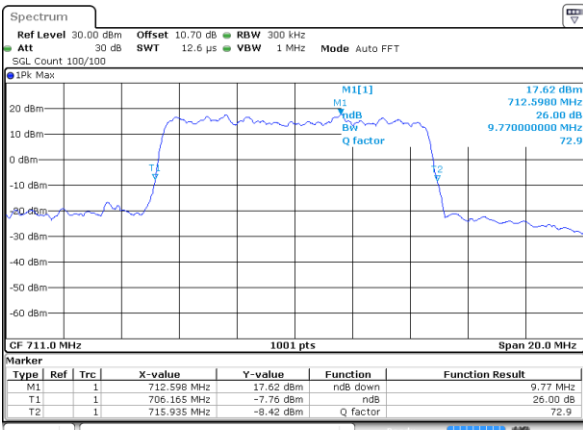
Date: 3.AUG.2017 22:06:16

Middle Channel / 10MHz / 16QAM



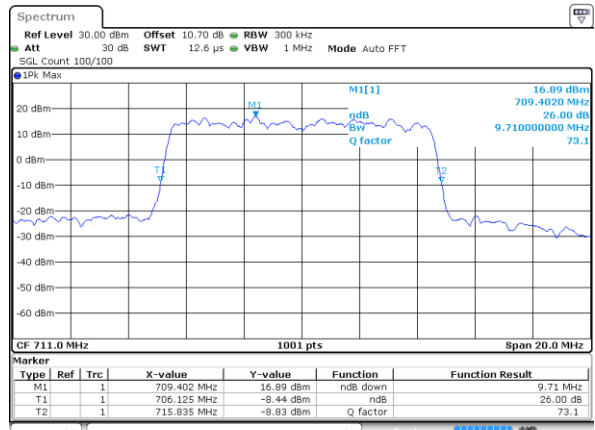
Date: 3.AUG.2017 22:06:26

Highest Channel / 10MHz / QPSK



Date: 3.AUG.2017 22:08:44

Highest Channel / 10MHz / 16QAM

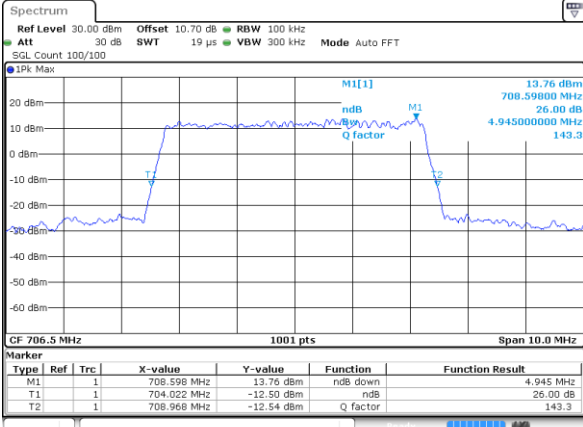


Date: 3.AUG.2017 22:08:54



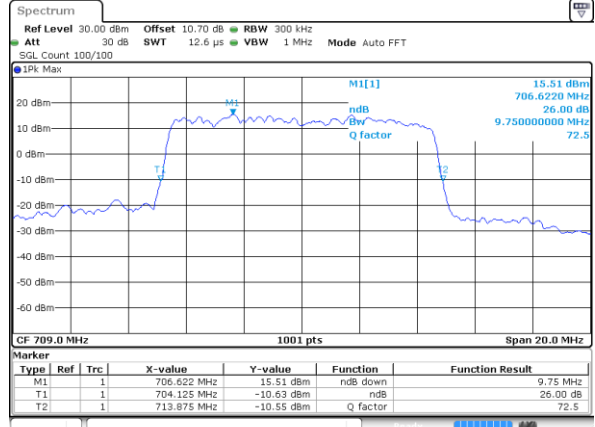
LTE Band 17

Lowest Channel / 5MHz / 64QAM



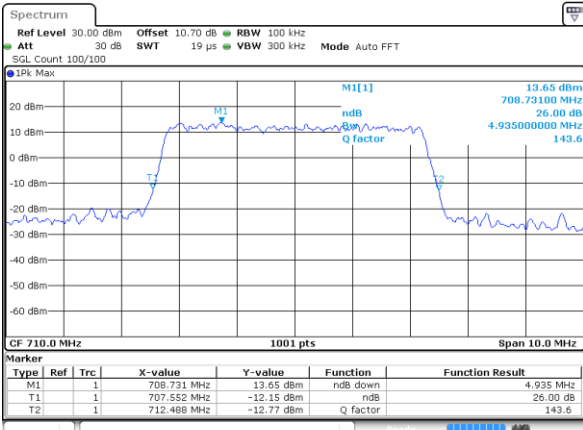
Date: 6 OCT 2017 22:38:23

Lowest Channel / 10MHz / 64QAM



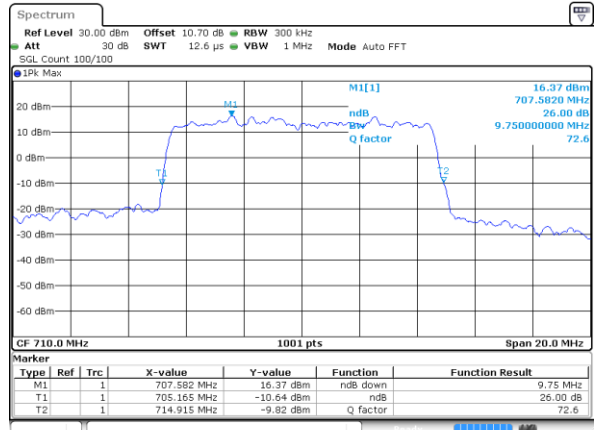
Date: 6 OCT 2017 22:46:39

Middle Channel / 5MHz / 64QAM



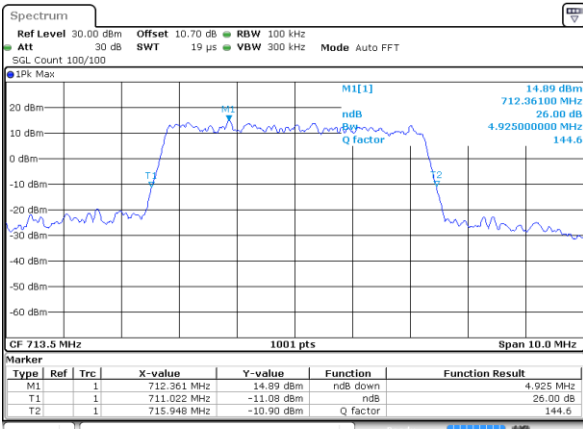
Date: 6 OCT 2017 22:41:54

Middle Channel / 10MHz / 64QAM



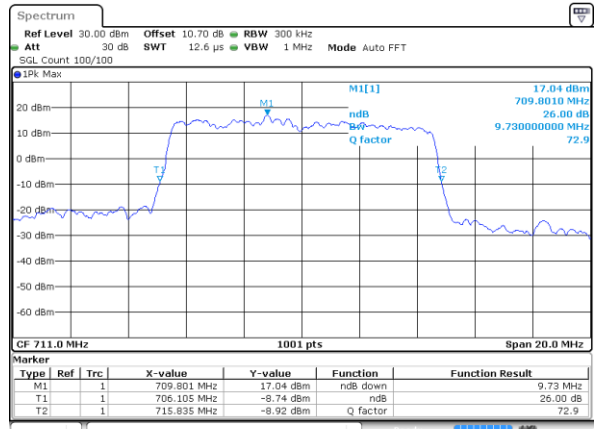
Date: 6 OCT 2017 22:50:10

Highest Channel / 5MHz / 64QAM



Date: 6 OCT 2017 22:43:08

Highest Channel / 10MHz / 64QAM



Date: 6 OCT 2017 22:51:24



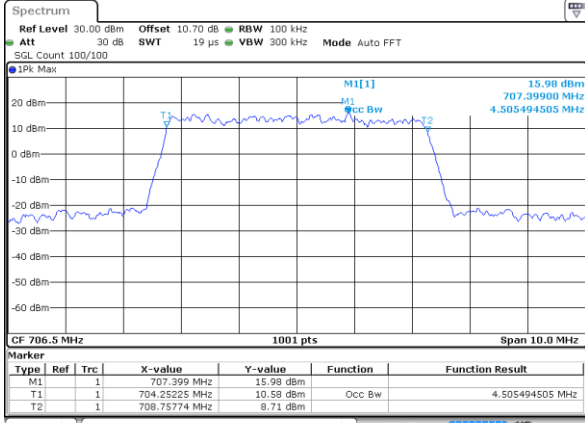
Occupied Bandwidth

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	-	-	-	-	4.51	4.51	9.01	9.01	-	-	-	-
Middle CH	-	-	-	-	4.52	4.51	9.13	9.03	-	-	-	-
Highest CH	-	-	-	-	4.47	4.48	9.05	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	-	-	-	-	4.5	-	8.95	-	-	-	-	-
Middle CH	-	-	-	-	4.5	-	9.05	-	-	-	-	-
Highest CH	-	-	-	-	4.5	-	9.09	-	-	-	-	-



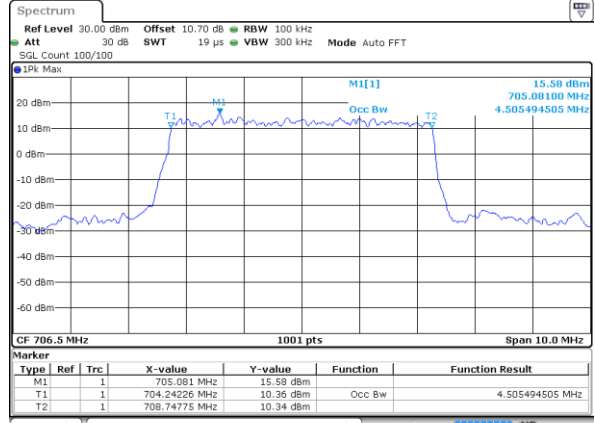
LTE Band 17

Lowest Channel / 5MHz / QPSK



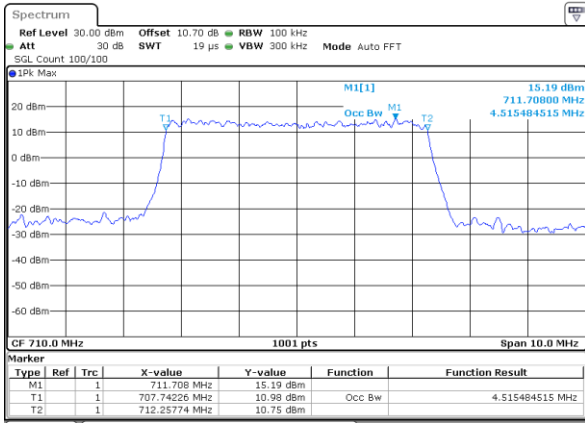
Date: 3 AUG 2017 21:42:21

Lowest Channel / 5MHz / 16QAM



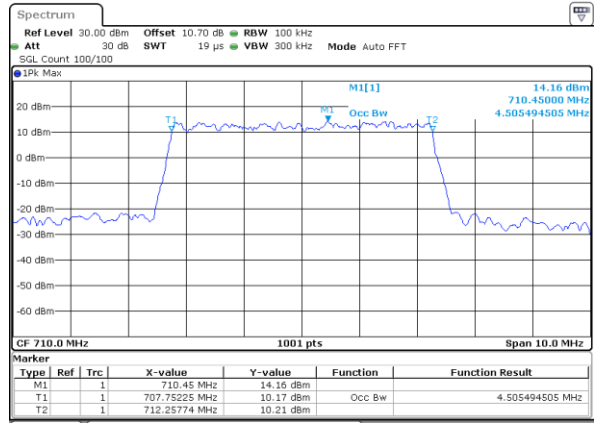
Date: 3 AUG 2017 21:42:32

Middle Channel / 5MHz / QPSK



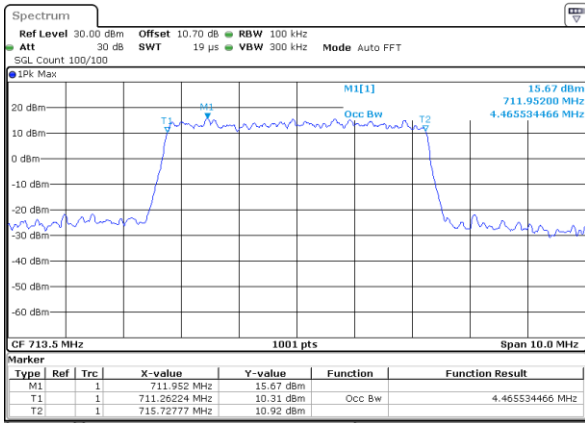
Date: 3 AUG 2017 21:49:24

Middle Channel / 5MHz / 16QAM



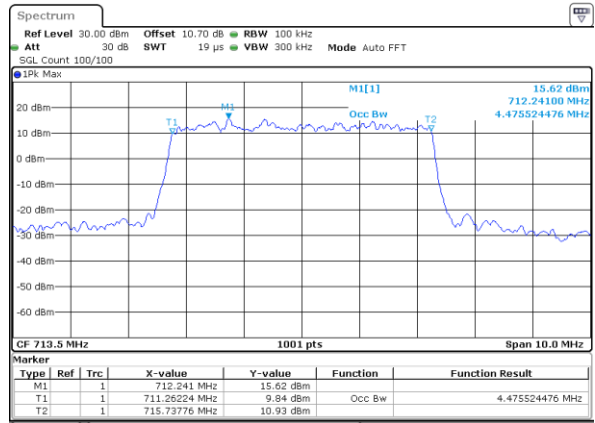
Date: 3 AUG 2017 21:49:34

Highest Channel / 5MHz / QPSK



Date: 3 AUG 2017 21:51:51

Highest Channel / 5MHz / 16QAM

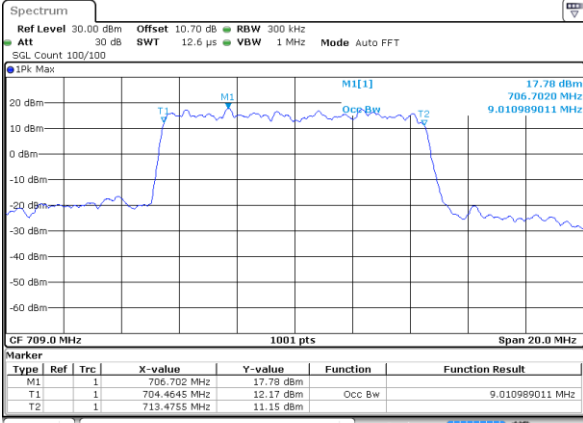


Date: 3 AUG 2017 21:52:01



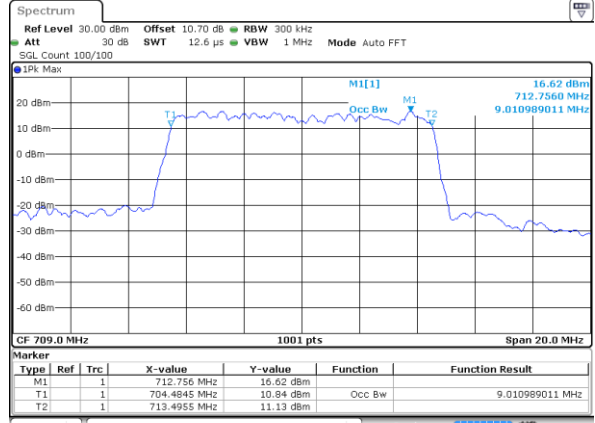
LTE Band 17

Lowest Channel / 10MHz / QPSK



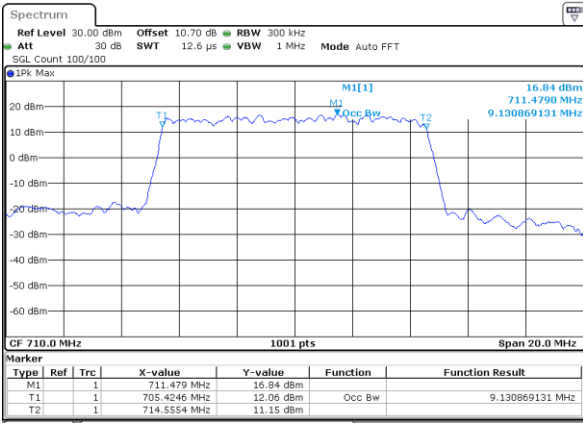
Date: 3 AUG 2017 21:58:53

Lowest Channel / 10MHz / 16QAM



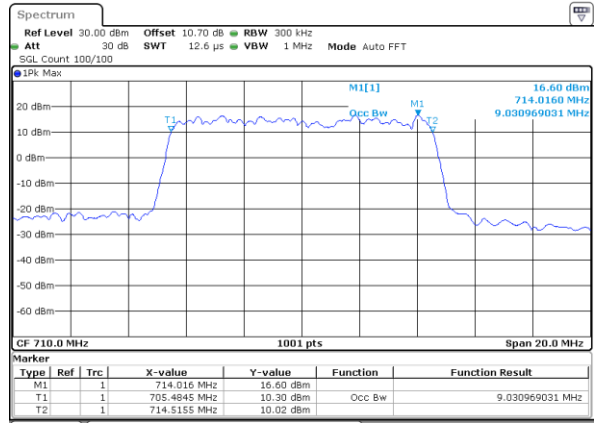
Date: 3 AUG 2017 21:59:04

Middle Channel / 10MHz / QPSK



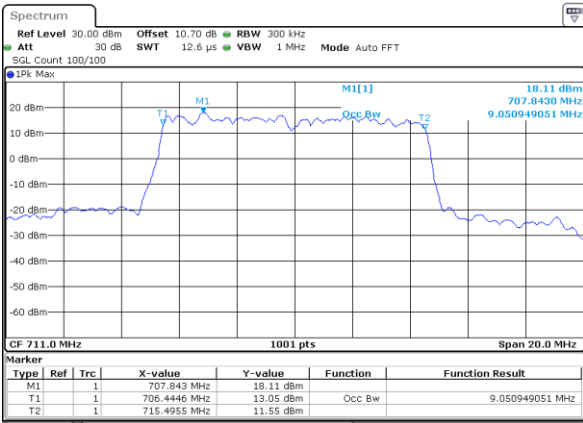
Date: 3 AUG 2017 22:05:56

Middle Channel / 10MHz / 16QAM



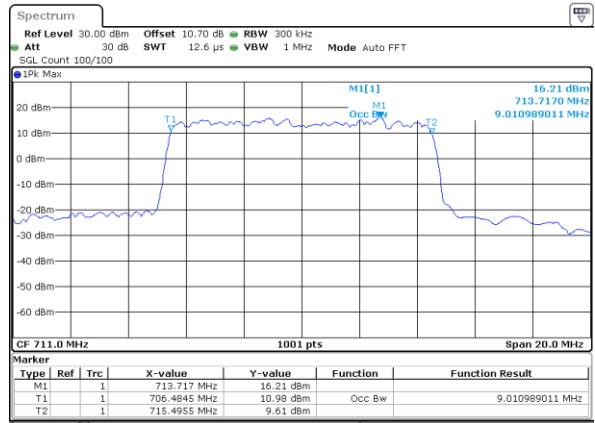
Date: 3 AUG 2017 22:06:06

Highest Channel / 10MHz / QPSK



Date: 3 AUG 2017 22:08:24

Highest Channel / 10MHz / 16QAM

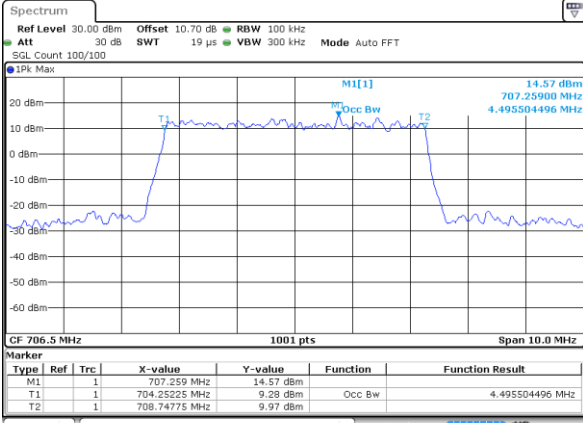


Date: 3 AUG 2017 22:08:34



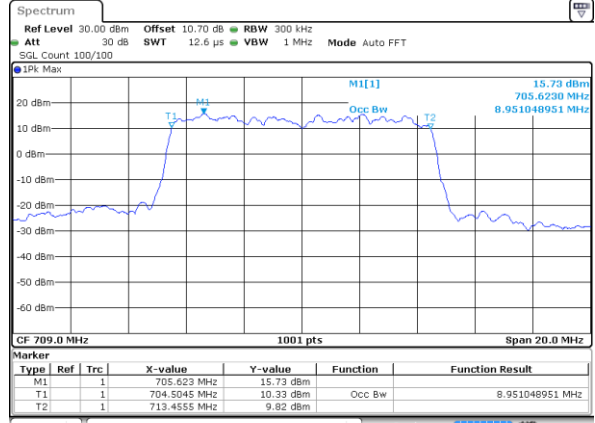
LTE Band 17

Lowest Channel / 5MHz / 64QAM



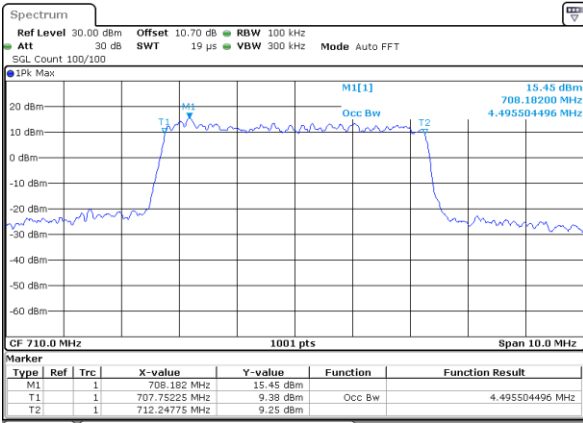
Date: 6 OCT 2017 22:38:13

Lowest Channel / 10MHz / 64QAM



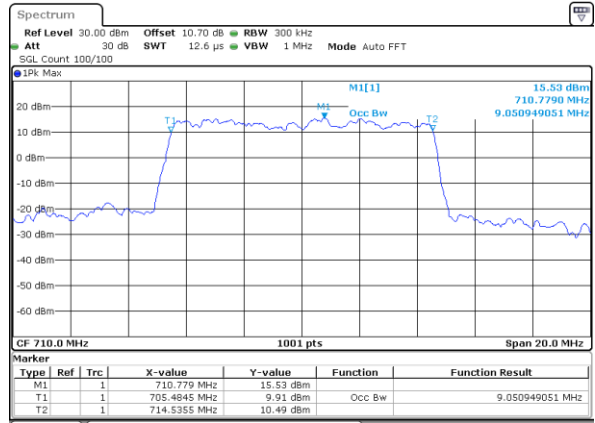
Date: 6 OCT 2017 22:46:29

Middle Channel / 5MHz / 64QAM



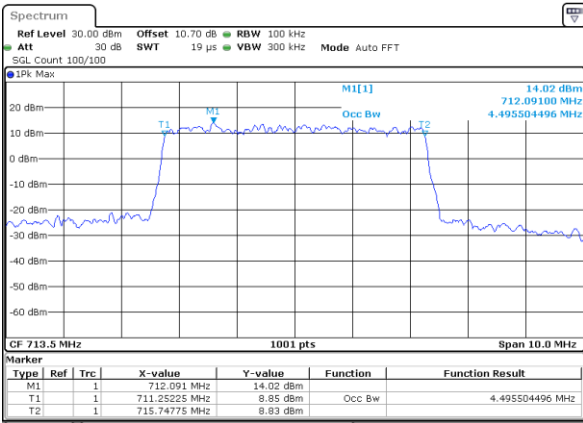
Date: 6 OCT 2017 22:41:44

Middle Channel / 10MHz / 64QAM



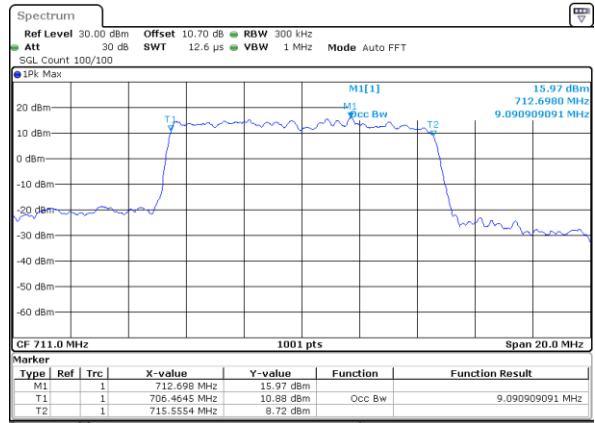
Date: 6 OCT 2017 22:50:00

Highest Channel / 5MHz / 64QAM



Date: 6 OCT 2017 22:42:58

Highest Channel / 10MHz / 64QAM



Date: 6 OCT 2017 22:51:14

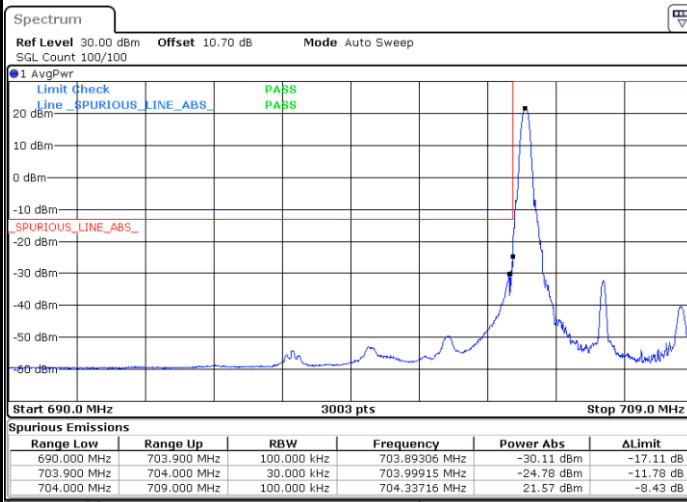


Conducted Band Edge



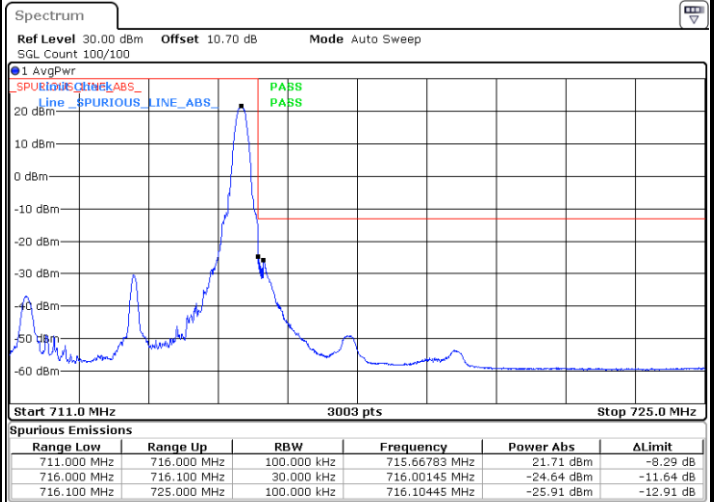
LTE Band 17 / 5MHz / QPSK

Lowest Band Edge / 1 RB



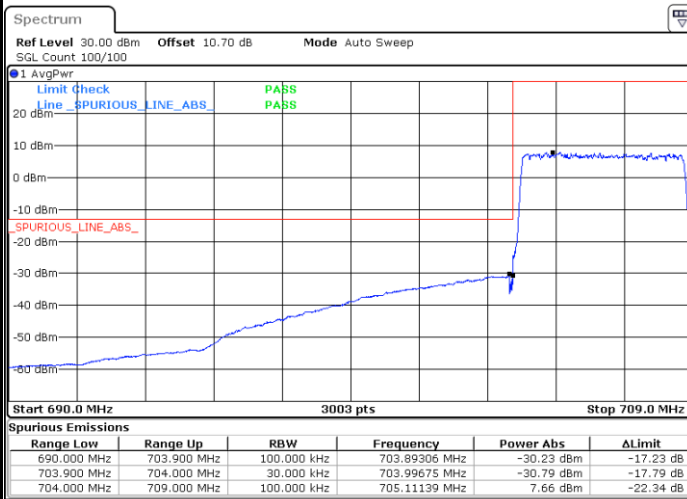
Date: 3 AUG 2017 21:44:00

Highest Band Edge / 1 RB



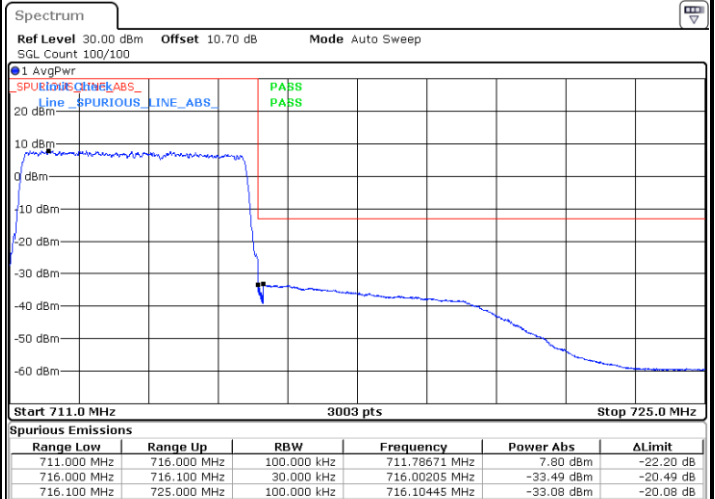
Date: 3 AUG 2017 21:53:30

Lowest Band Edge / Full RB



Date: 3 AUG 2017 21:46:17

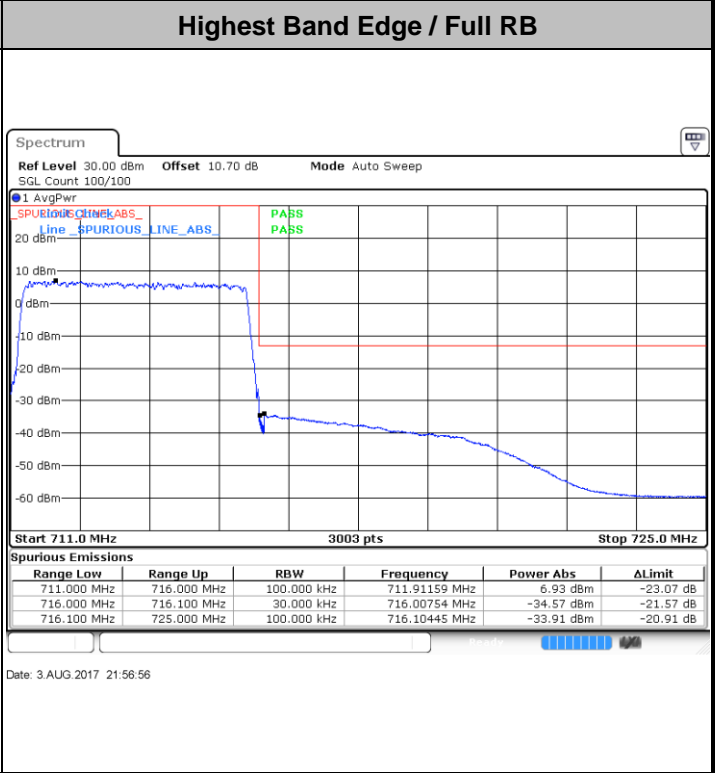
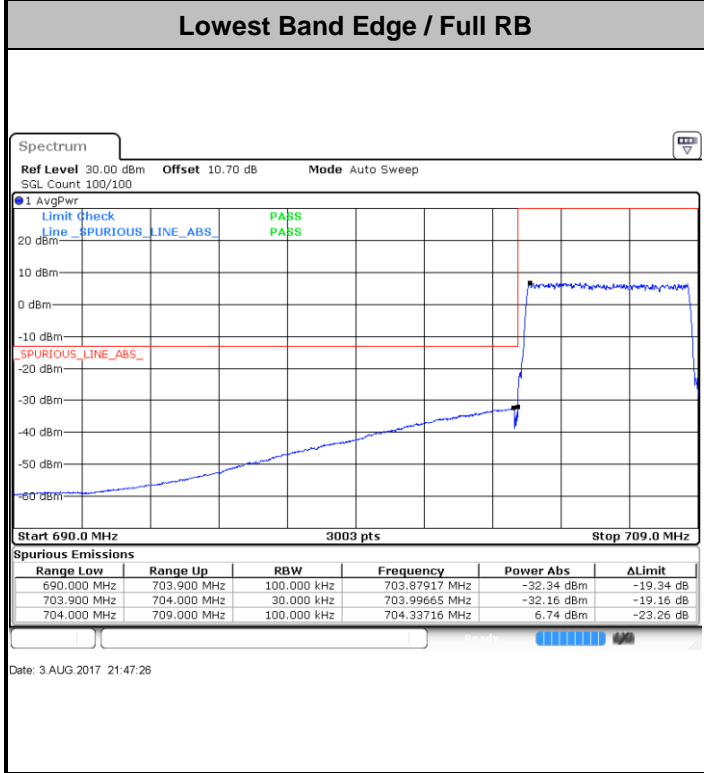
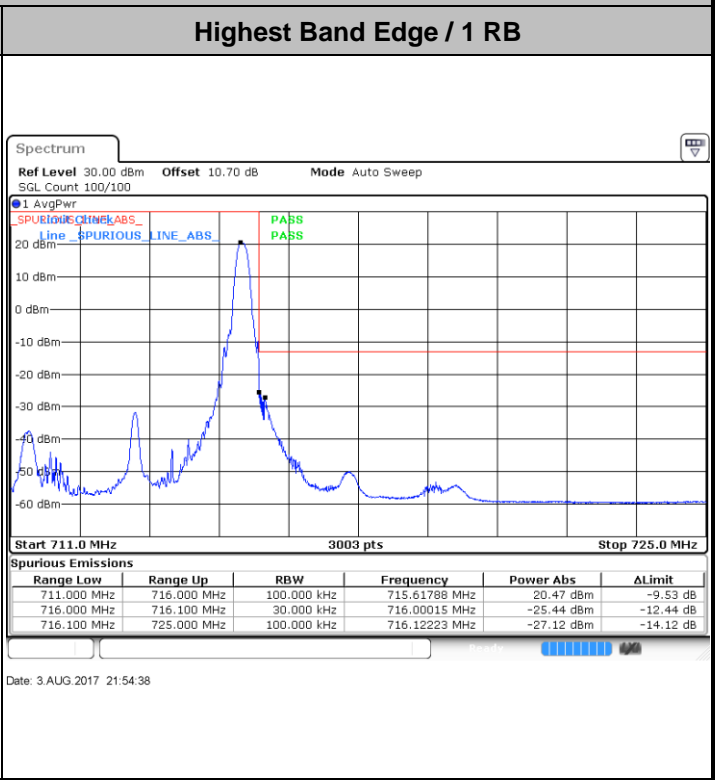
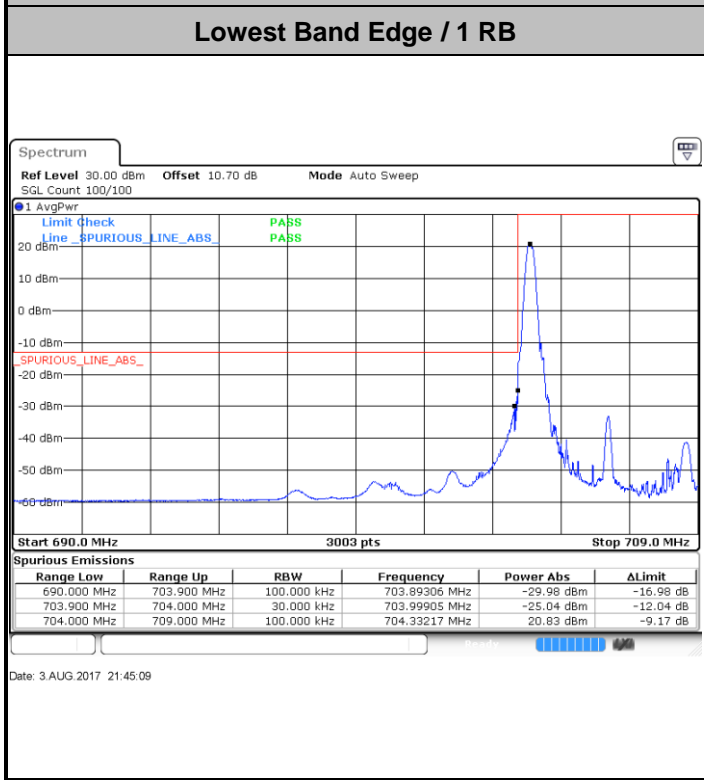
Highest Band Edge / Full RB



Date: 3 AUG 2017 21:55:47



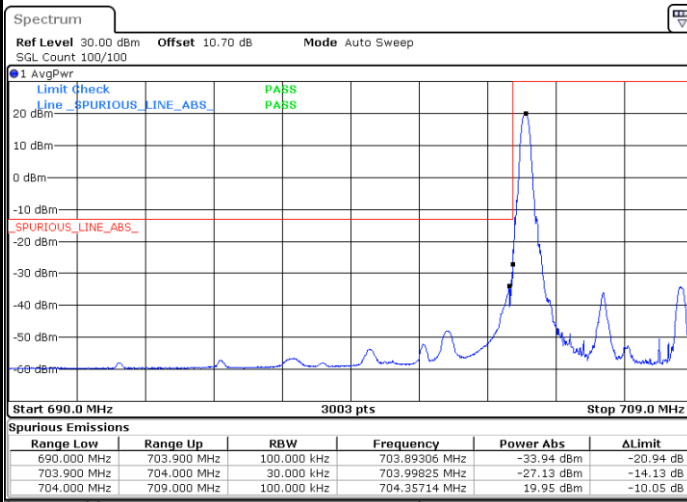
LTE Band 17 / 5MHz / 16QAM





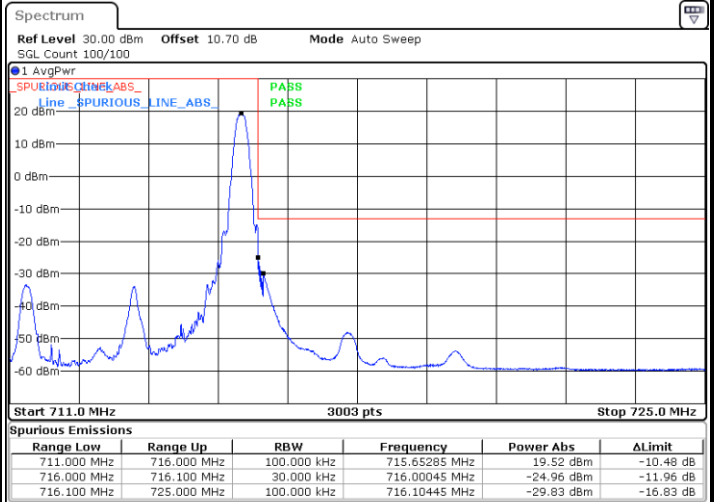
LTE Band 17 / 5MHz / 64QAM

Lowest Band Edge / 1 RB



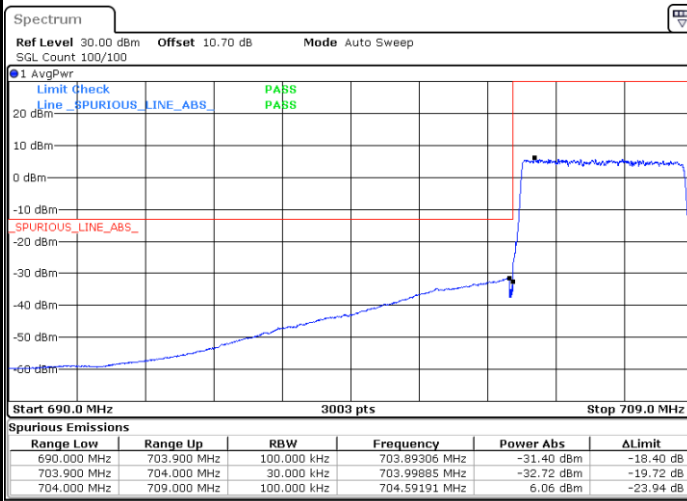
Date: 6 OCT.2017 22:39:31

Highest Band Edge / 1 RB



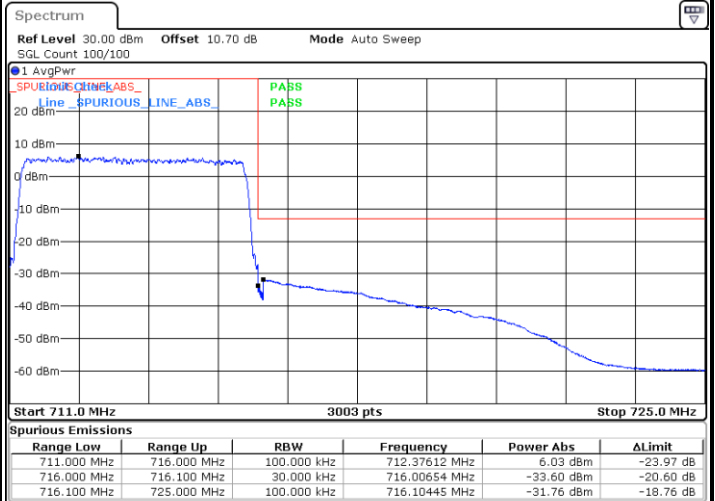
Date: 6 OCT.2017 22:44:16

Lowest Band Edge / Full RB



Date: 6 OCT.2017 22:40:40

Highest Band Edge / Full RB

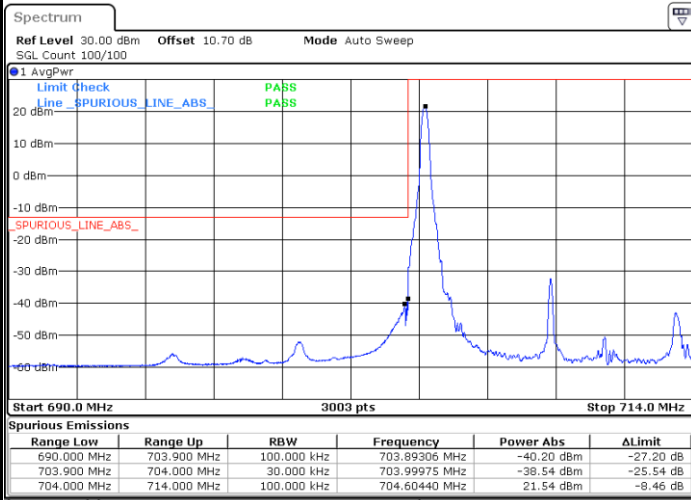


Date: 6 OCT.2017 22:45:25



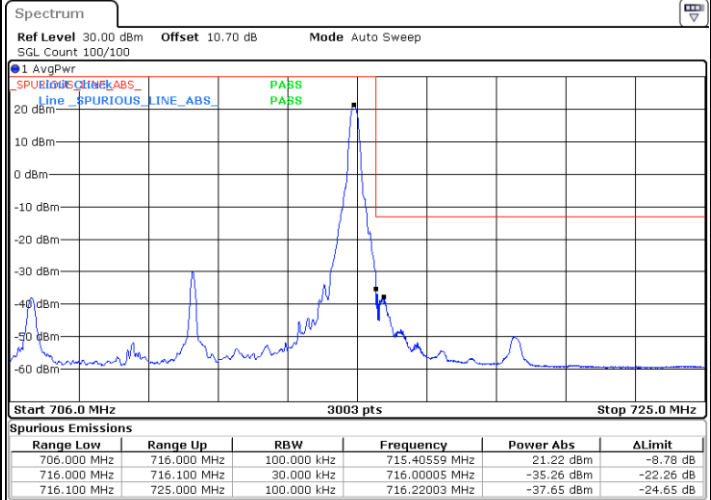
LTE Band 17 / 10MHz / QPSK

Lowest Band Edge / 1 RB



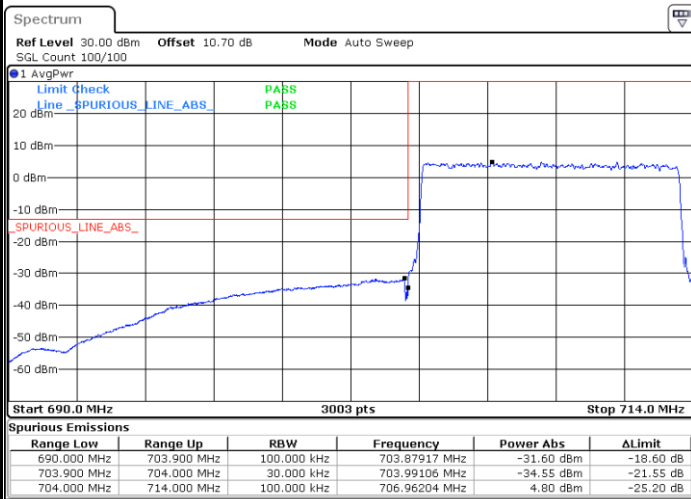
Date: 3 AUG 2017 22:00:32

Highest Band Edge / 1 RB



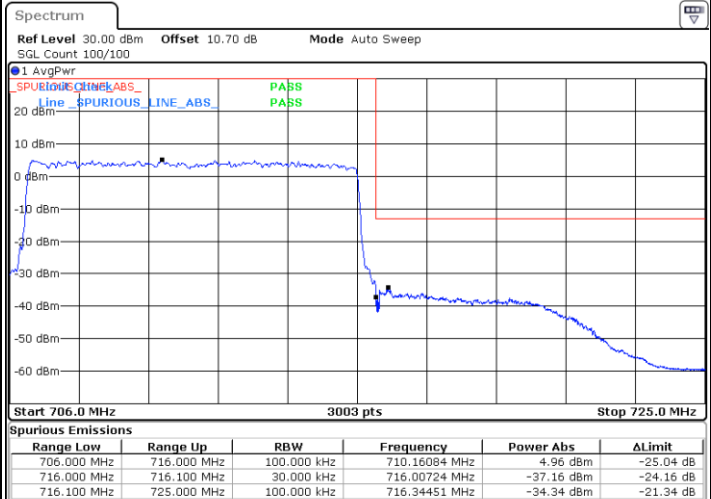
Date: 3 AUG 2017 22:10:02

Lowest Band Edge / Full RB



Date: 3 AUG 2017 22:02:49

Highest Band Edge / Full RB

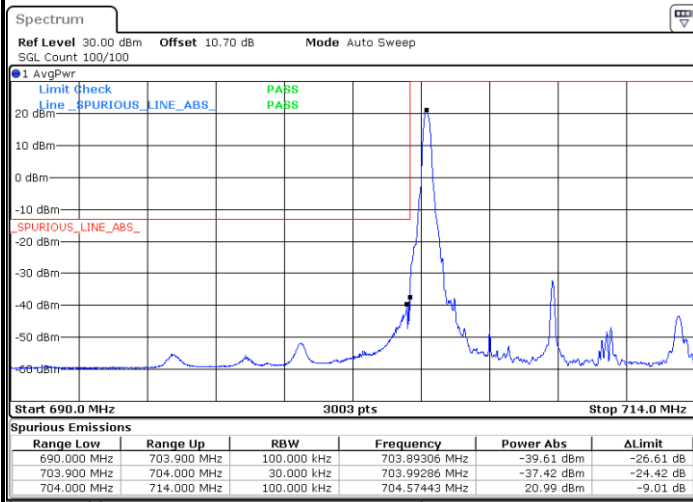


Date: 3 AUG 2017 22:12:20



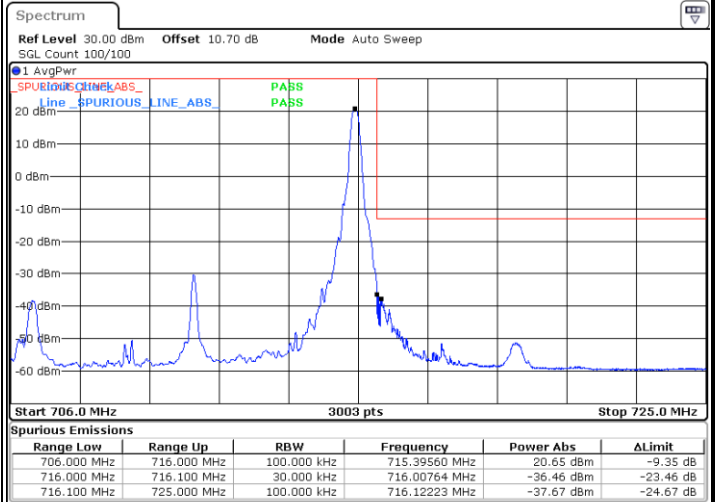
LTE Band 17 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



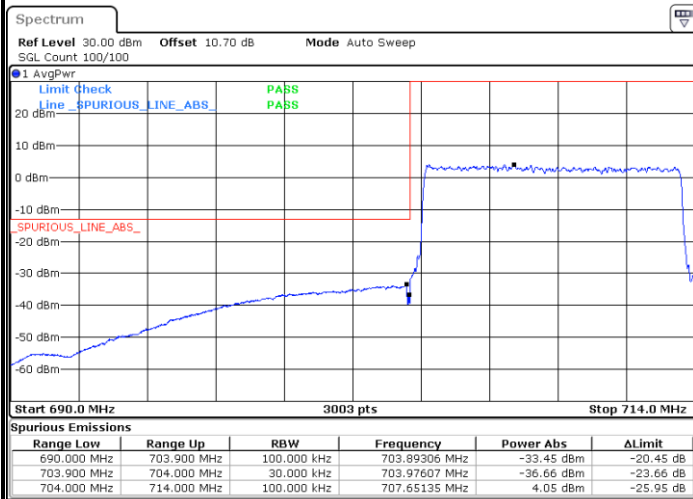
Date: 3 AUG 2017 22:01:41

Highest Band Edge / 1 RB



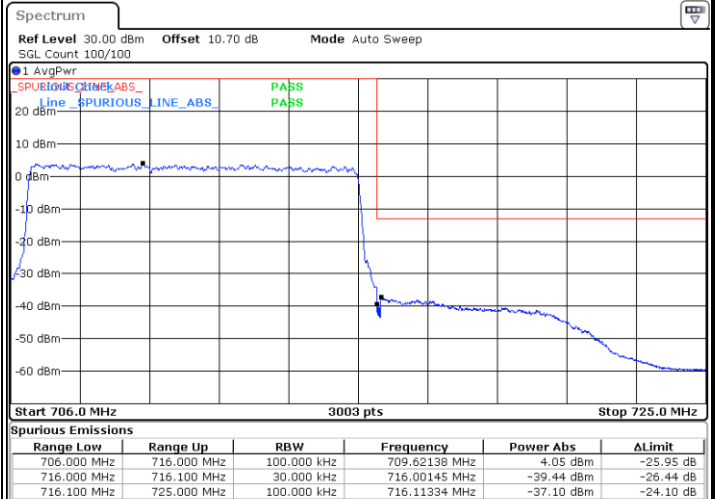
Date: 3 AUG 2017 22:11:11

Lowest Band Edge / Full RB



Date: 3 AUG 2017 22:03:58

Highest Band Edge / Full RB

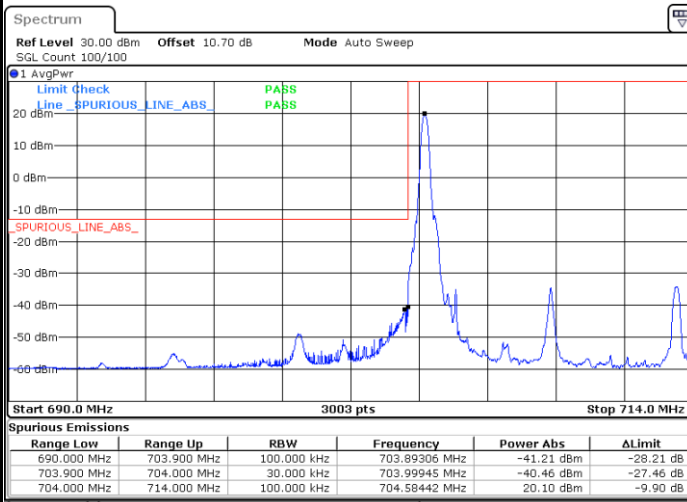


Date: 3 AUG 2017 22:13:28



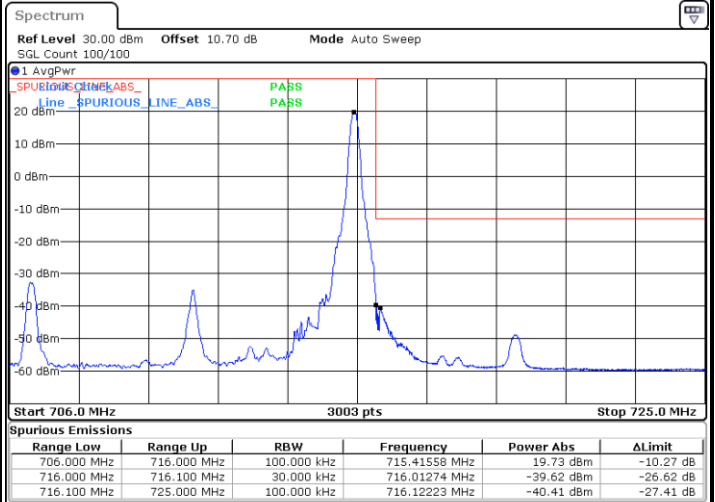
LTE Band 17 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



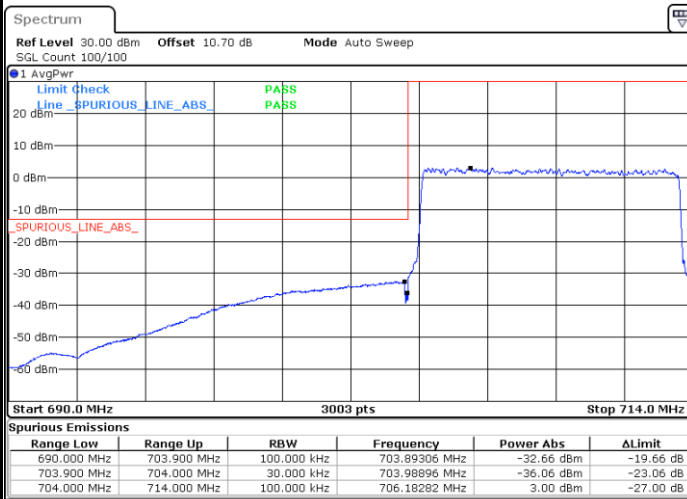
Date: 6 OCT.2017 22:47:47

Highest Band Edge / 1 RB



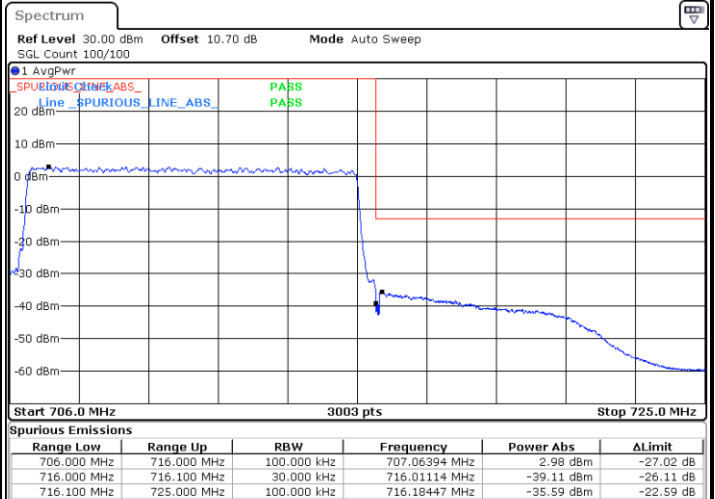
Date: 6 OCT.2017 22:52:32

Lowest Band Edge / Full RB



Date: 6 OCT.2017 22:48:56

Highest Band Edge / Full RB



Date: 6 OCT.2017 22:53:41



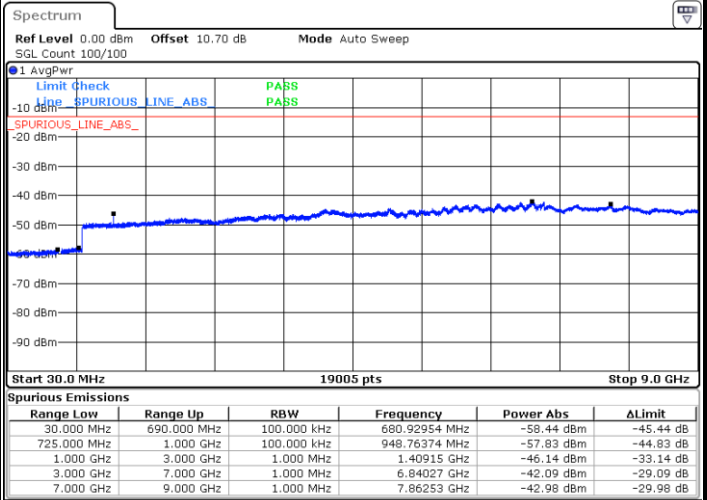
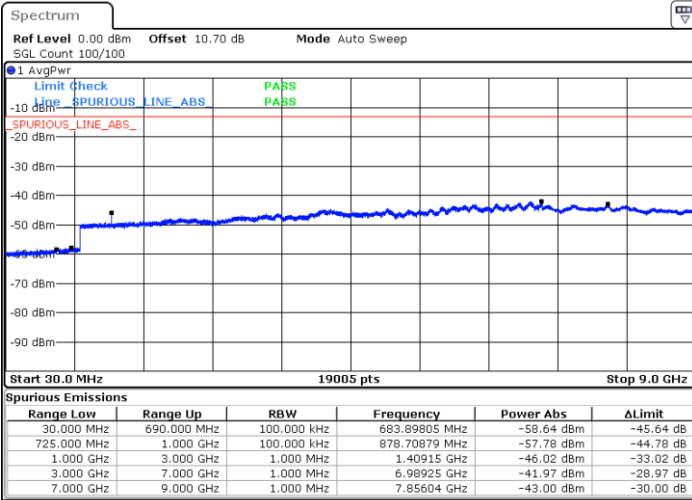
Conducted Spurious Emission



LTE Band 17 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

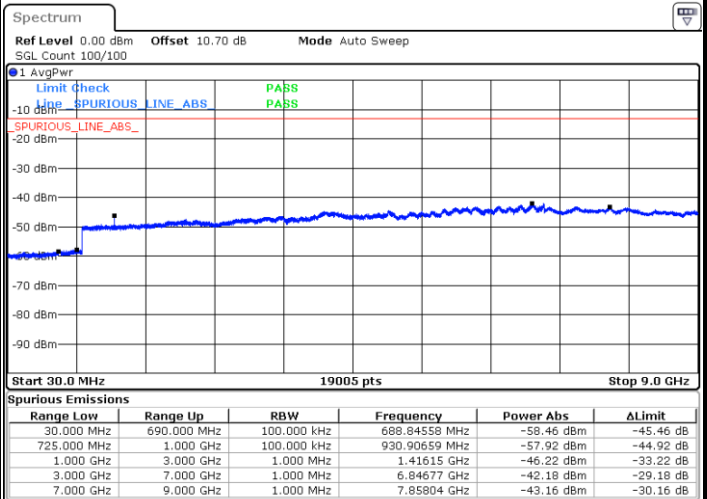
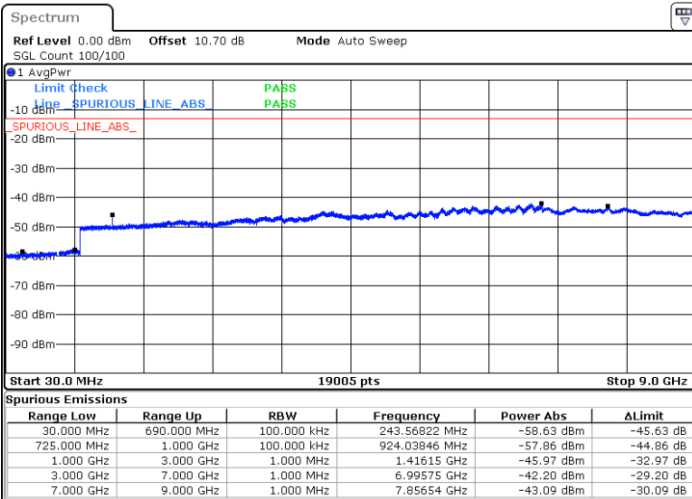


Date: 3 AUG.2017 21:48:20

Date: 3 AUG.2017 21:49:14

Middle Channel / QPSK

Middle Channel / 16QAM



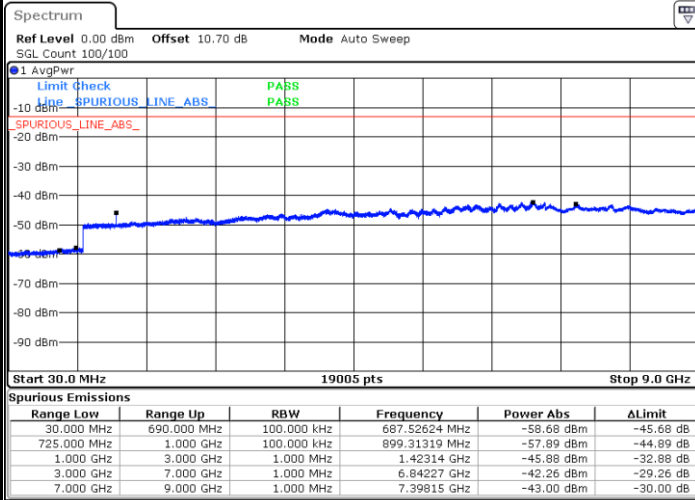
Date: 3 AUG.2017 21:50:48

Date: 3 AUG.2017 21:51:41



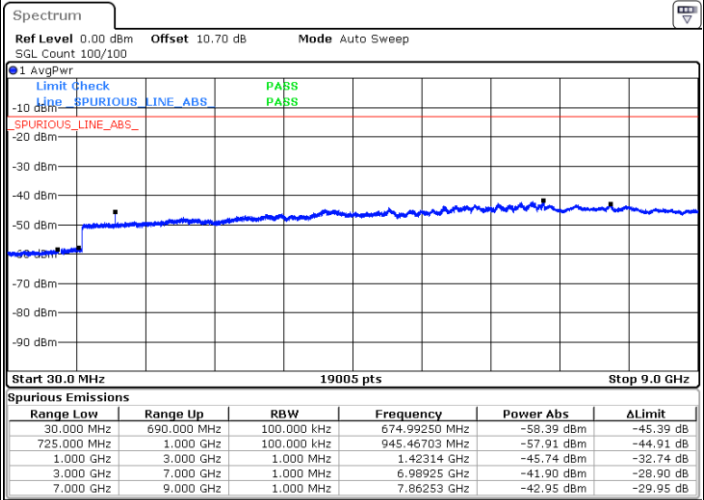
LTE Band 17 / 5MHz

Highest Channel / QPSK



Date: 3 AUG.2017 21:57:50

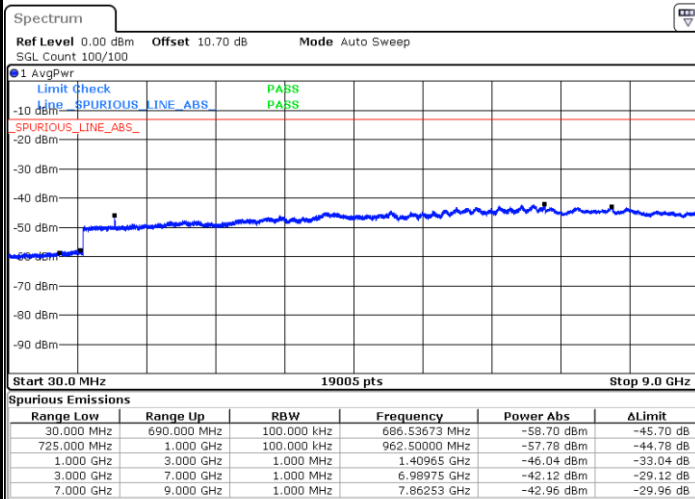
Highest Channel / 16QAM



Date: 3 AUG.2017 21:58:44

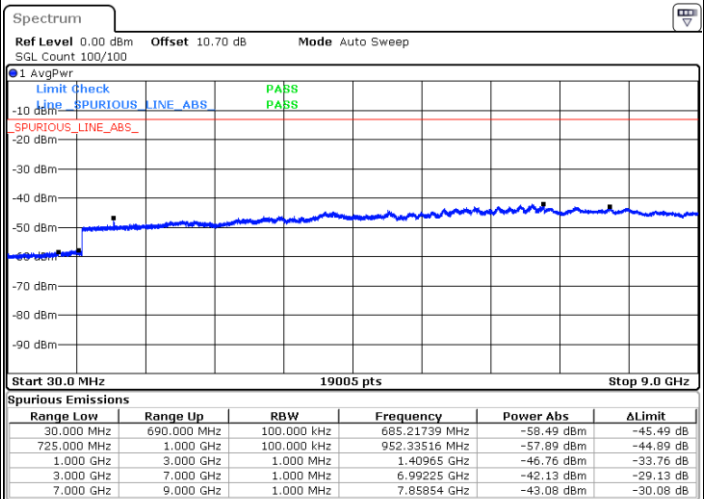
LTE Band 17 / 10MHz

Lowest Channel / QPSK



Date: 3 AUG.2017 22:04:52

Lowest Channel / 16QAM

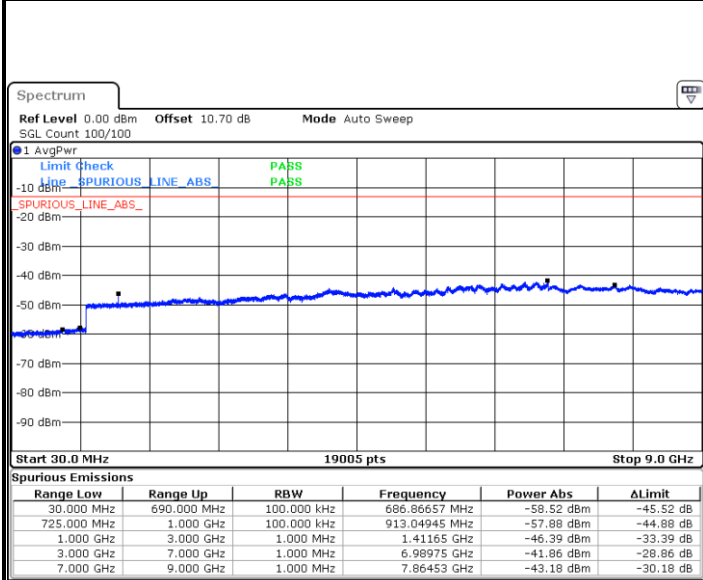


Date: 3 AUG.2017 22:05:46



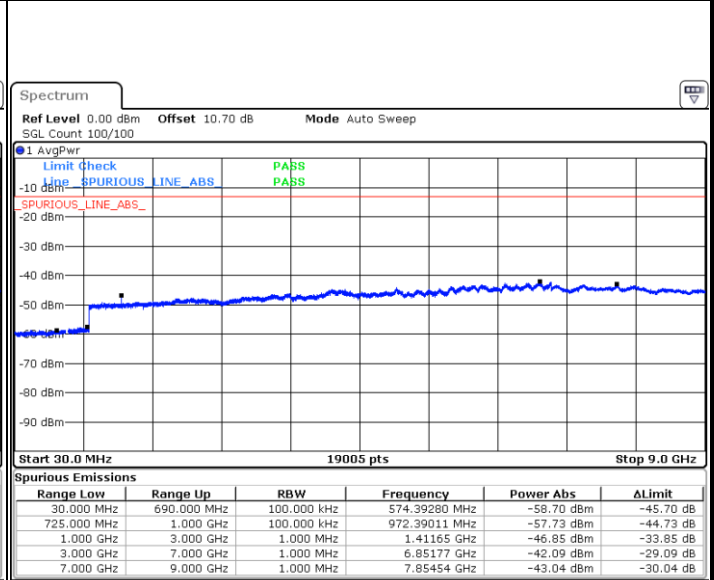
LTE Band 17 / 10MHz

Middle Channel / QPSK



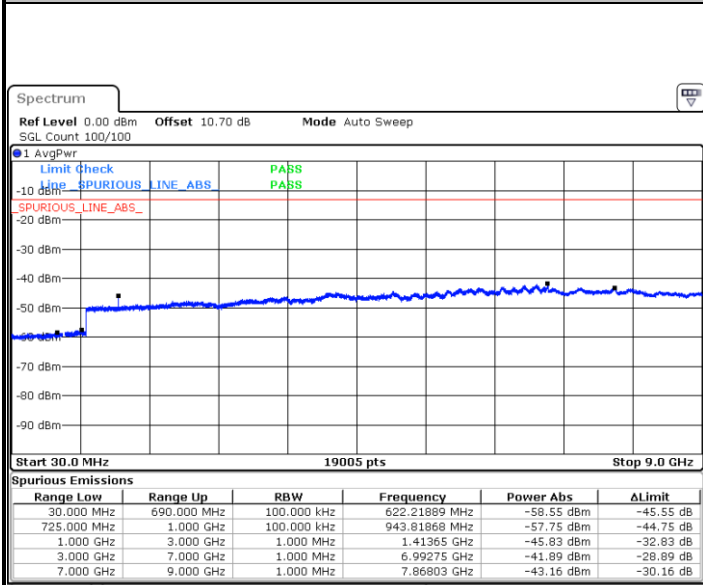
Date: 3 AUG.2017 22:07:20

Middle Channel / 16QAM



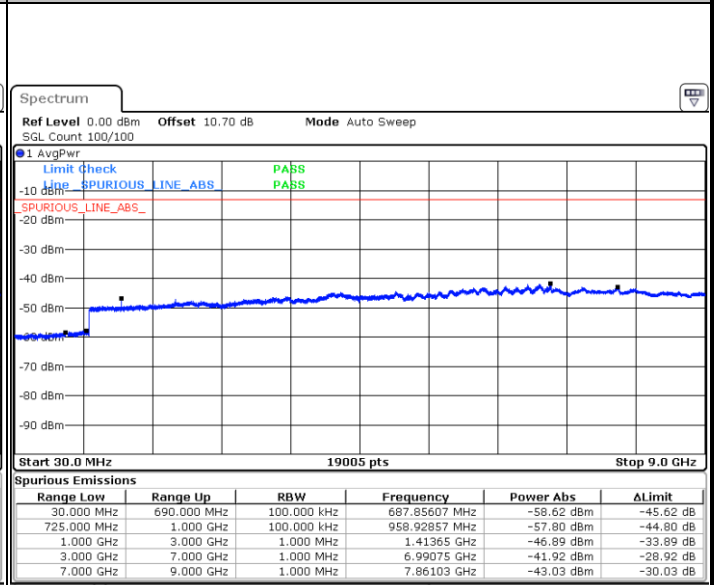
Date: 3 AUG.2017 22:08:14

Highest Channel / QPSK



Date: 4 AUG.2017 00:05:27

Highest Channel / 16QAM



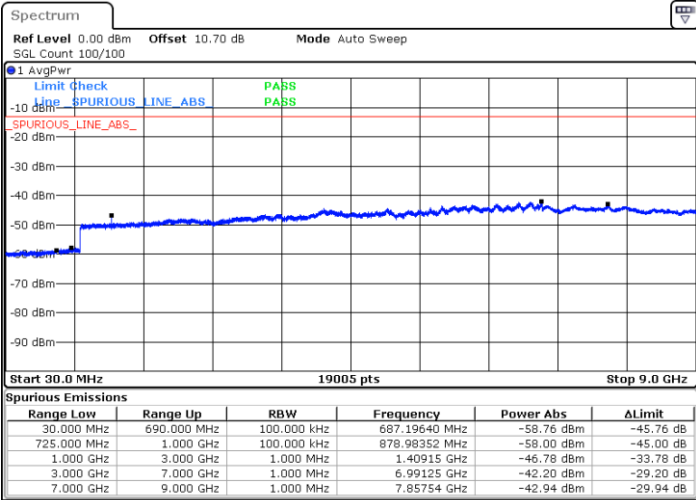
Date: 4 AUG.2017 00:06:21



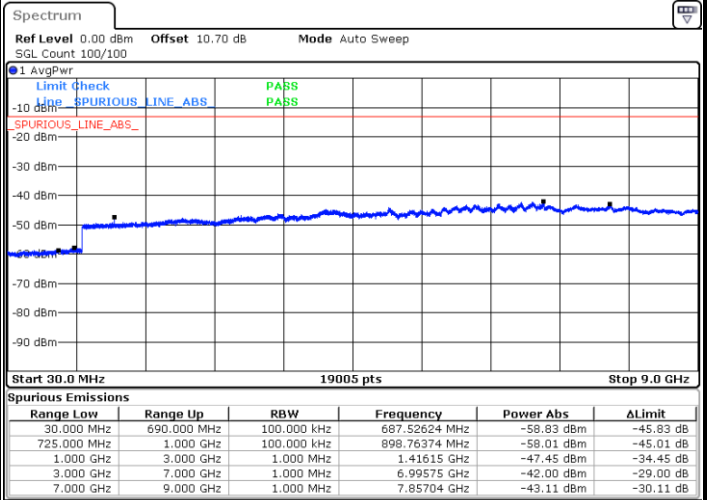
LTE Band 17 / 5MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

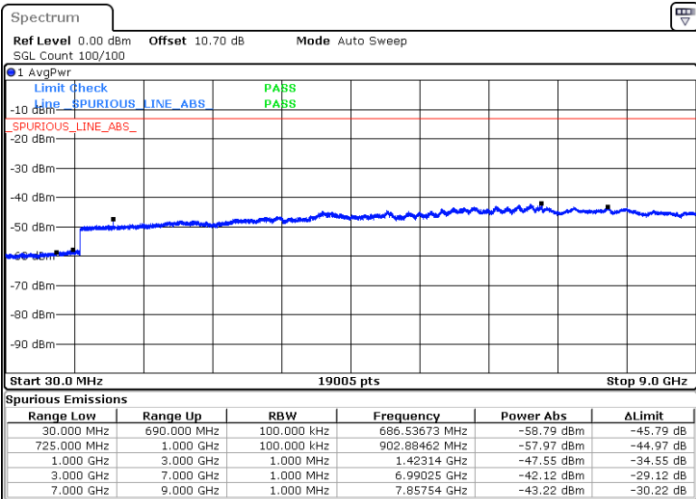


Date: 6.OCT.2017 22:41:34



Date: 6.OCT.2017 22:42:48

Highest Channel / 64QAM



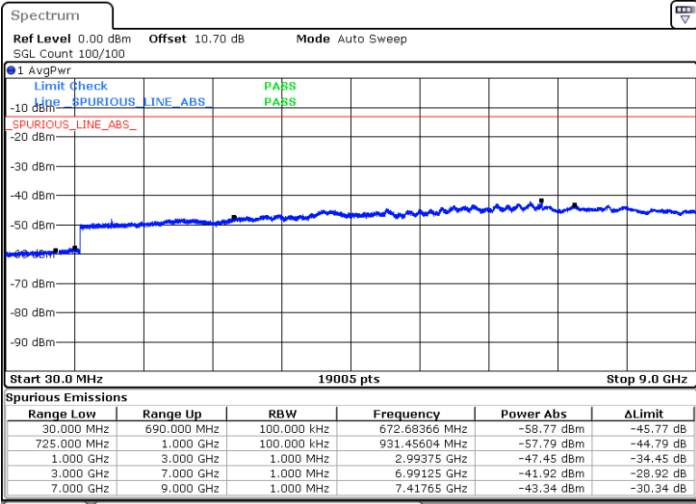
Date: 6.OCT.2017 22:46:19



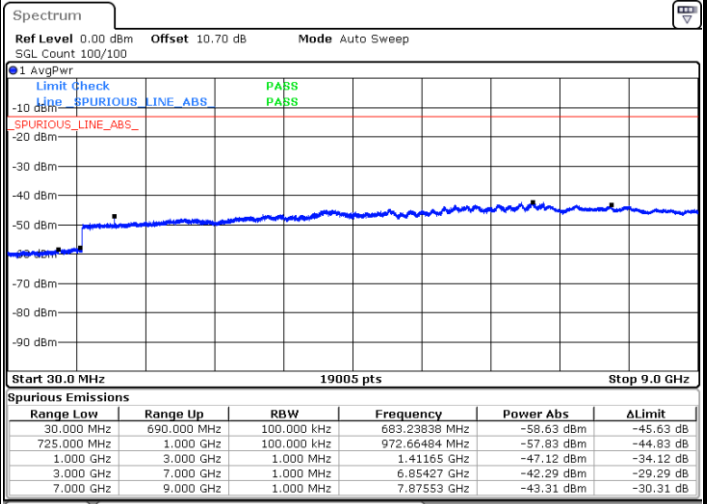
LTE Band 17 / 10MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

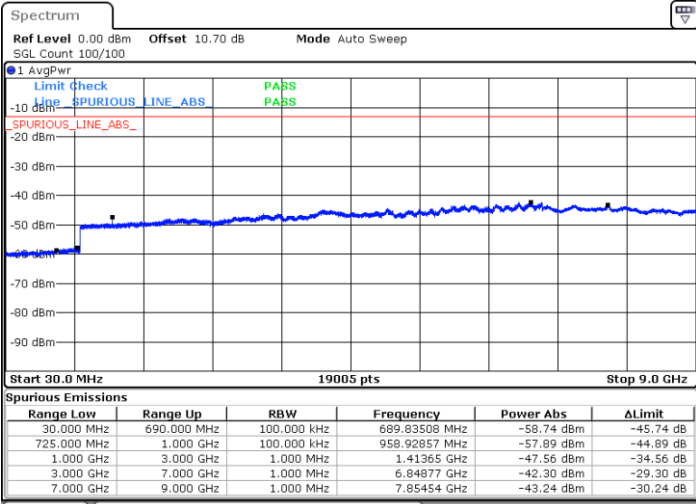


Date: 6.OCT.2017 22:49:50



Date: 6.OCT.2017 22:51:04

Highest Channel / 64QAM



Date: 6.OCT.2017 22:54:35



Frequency Stability

Test Conditions		LTE Band 17 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0065	PASS
40	Normal Voltage	0.0003	
30	Normal Voltage	0.0007	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0004	
0	Normal Voltage	0.0051	
-10	Normal Voltage	0.0037	
-20	Normal Voltage	0.0004	
-30	Normal Voltage	0.0097	
20	Maximum Voltage	0.0062	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0037	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 25

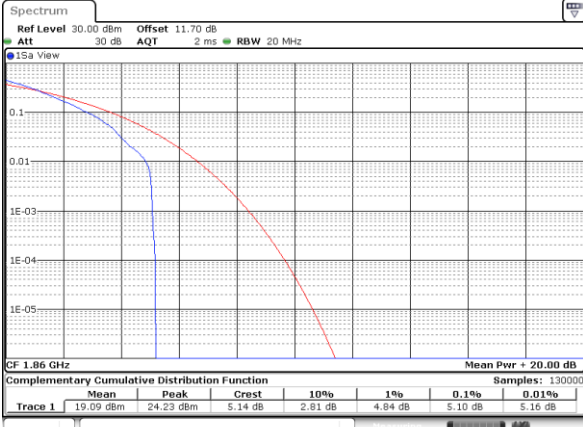
Peak-to-Average Ratio

Mode	LTE Band 25 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	5.1	5.45	5.45	6.43	PASS
Middle CH	5.59	5.3	6.46	6.49	
Highest CH	4.84	5.25	5.88	6.38	
Mode	LTE Band 25 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	5.74	6.38	-	-	PASS
Middle CH	6.26	6.67	-	-	
Highest CH	6.32	6.46	-	-	



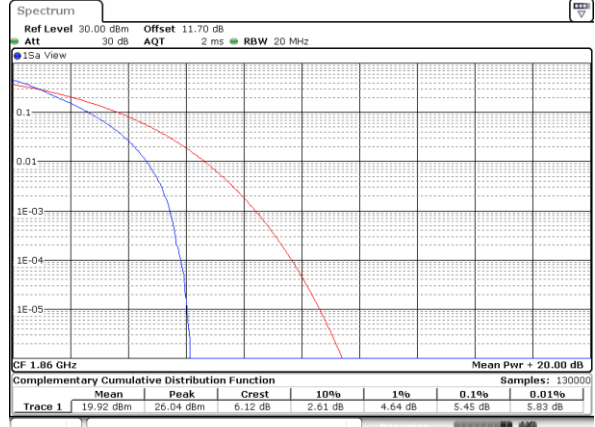
LTE Band 25 / 20MHz / QPSK

Lowest Channel / 1RB



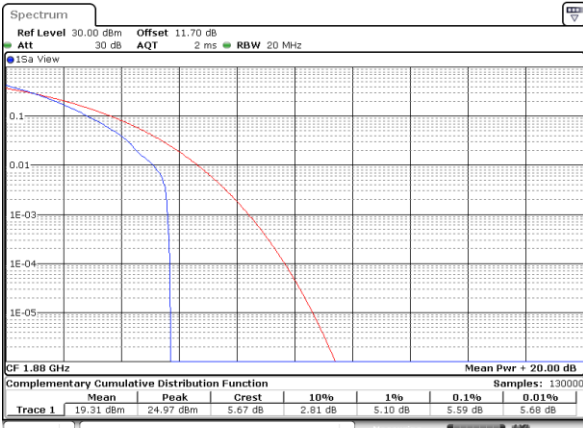
Date: 31 AUG 2017 11:12:35

Lowest Channel / Full RB



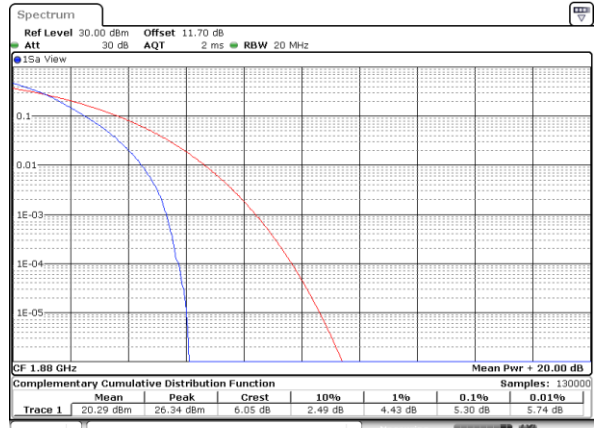
Date: 31 AUG 2017 11:12:48

Middle Channel / 1RB



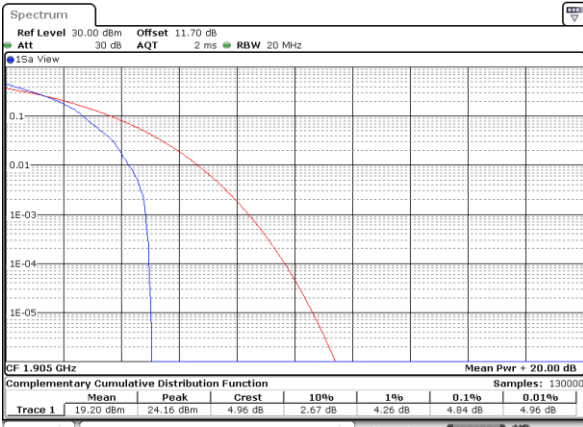
Date: 31 AUG 2017 11:13:40

Middle Channel / Full RB



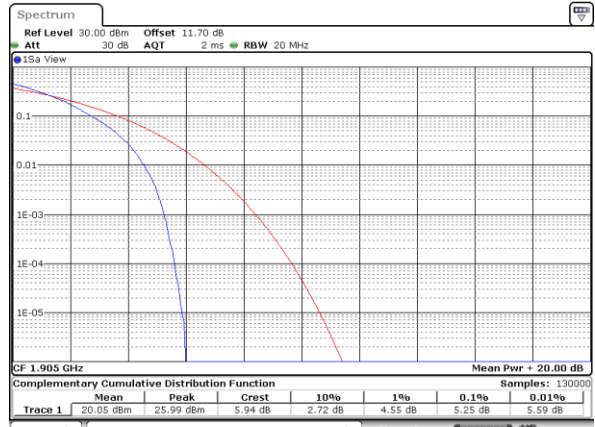
Date: 31 AUG 2017 11:13:53

Highest Channel / 1RB



Date: 31 AUG 2017 11:14:22

Highest Channel / Full RB

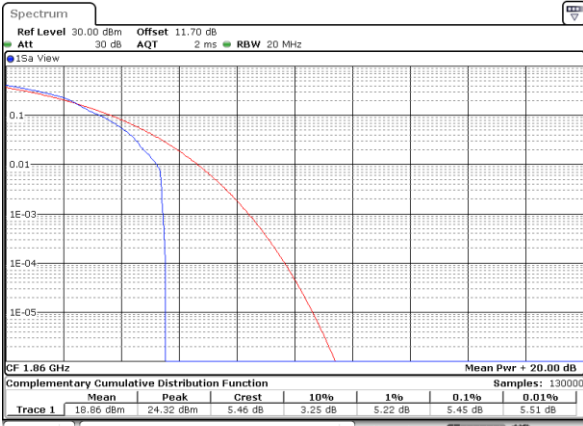


Date: 31 AUG 2017 11:14:32



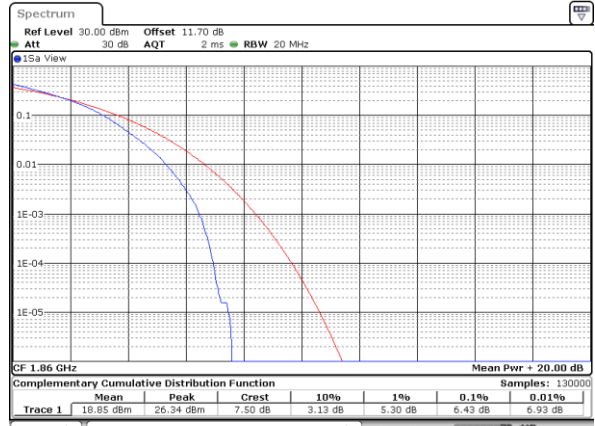
LTE Band 25 / 20MHz / 16QAM

Lowest Channel / 1RB



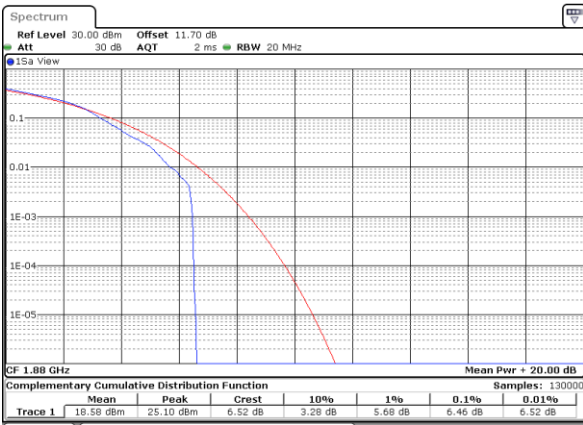
Date: 31 AUG 2017 11:12:05

Lowest Channel / Full RB



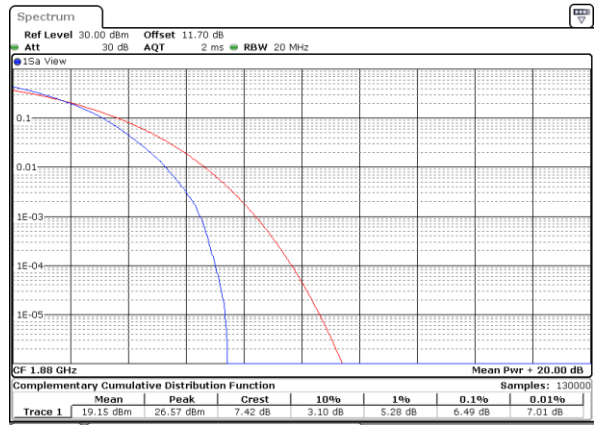
Date: 31 AUG 2017 11:12:25

Middle Channel / 1RB



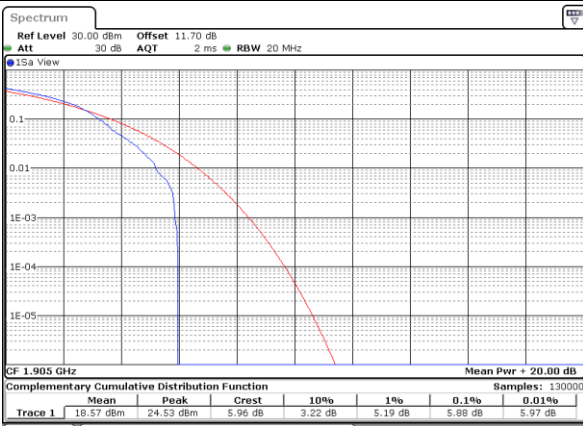
Date: 31 AUG 2017 11:12:59

Middle Channel / Full RB



Date: 31 AUG 2017 11:13:08

Highest Channel / 1RB



Date: 31 AUG 2017 11:14:03

Highest Channel / Full RB



Date: 31 AUG 2017 11:14:13