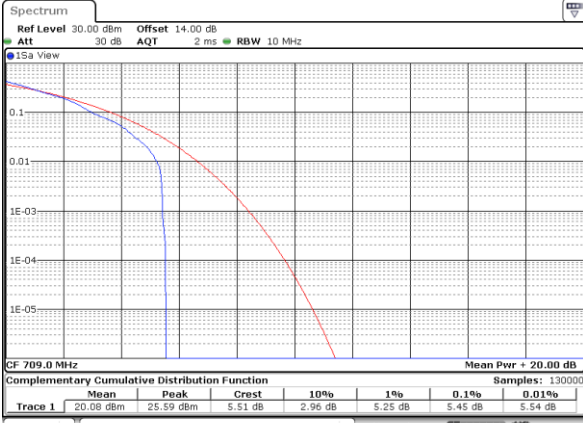




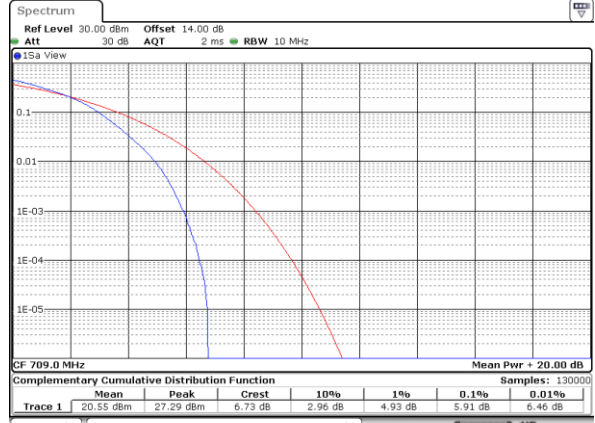
LTE Band 17 / 10MHz / 64QAM

Lowest Channel / 1RB



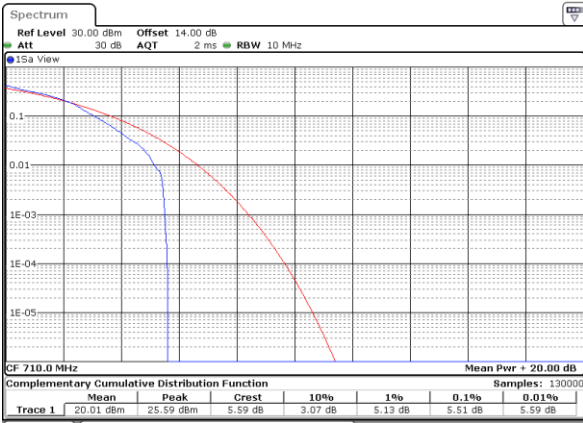
Date: 29.NOV.2019 22:07:05

Lowest Channel / Full RB



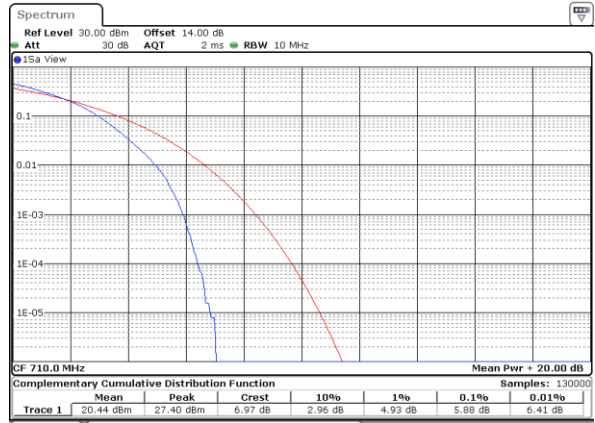
Date: 29.NOV.2019 22:07:16

Middle Channel / 1RB



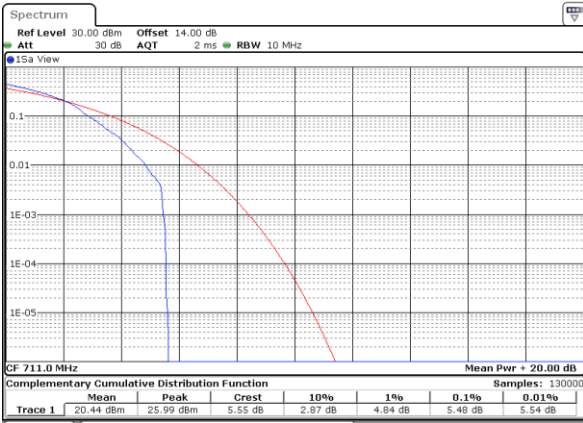
Date: 29.NOV.2019 22:07:26

Middle Channel / Full RB



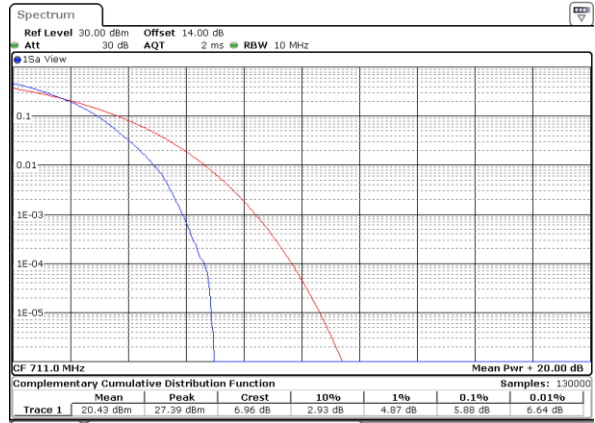
Date: 29.NOV.2019 22:07:37

Highest Channel / 1RB



Date: 29.NOV.2019 22:07:48

Highest Channel / Full RB



Date: 29.NOV.2019 22:08:08



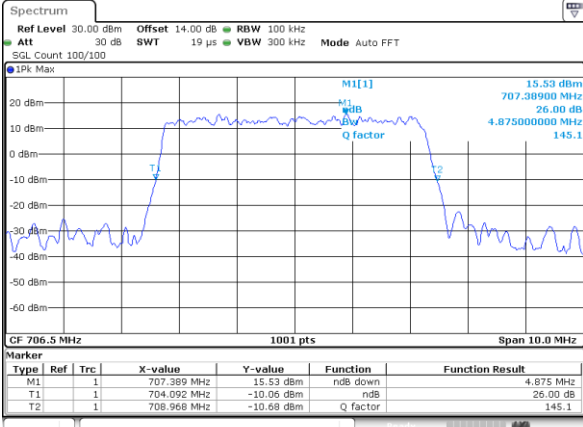
26dB Bandwidth

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	-	-	-	-	4.875	4.825	9.73	9.89	-	-	-	-
Middle CH	-	-	-	-	4.845	4.865	9.79	9.85	-	-	-	-
Highest CH	-	-	-	-	4.905	4.885	9.81	9.77	-	-	-	-
Mode	LTE Band 17 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-		-		4.875		9.73		-		-	
Middle CH	-		-		4.885		9.79		-		-	
Highest CH	-		-		4.855		9.79		-		-	



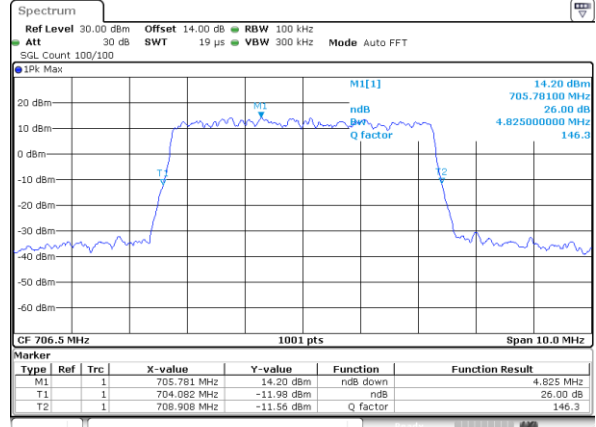
LTE Band 17

Lowest Channel / 5MHz / QPSK



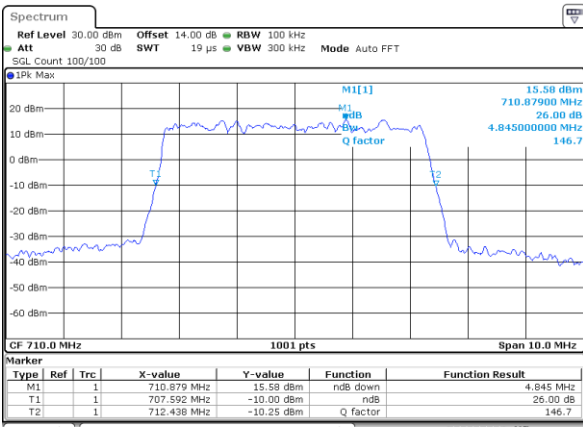
Date: 29_NOV.2019 21:22:03

Lowest Channel / 5MHz / 16QAM



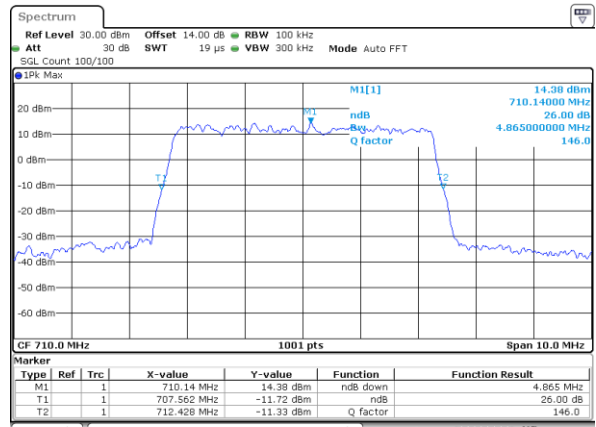
Date: 29_NOV.2019 21:22:14

Middle Channel / 5MHz / QPSK



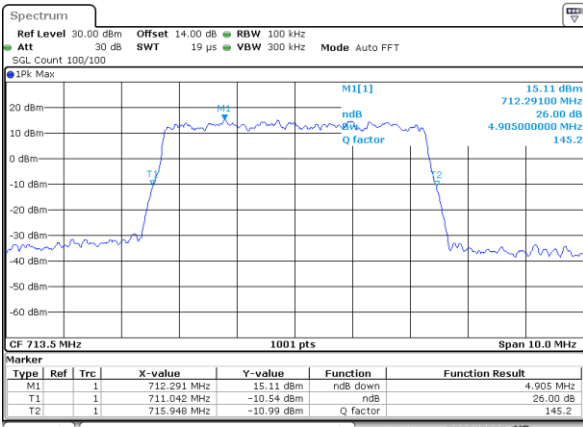
Date: 29_NOV.2019 21:28:11

Middle Channel / 5MHz / 16QAM



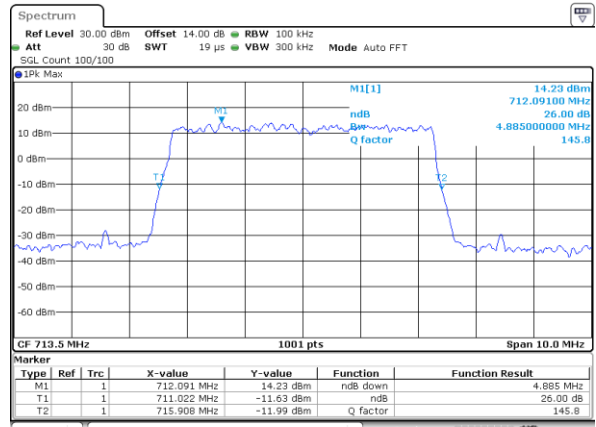
Date: 29_NOV.2019 21:28:22

Highest Channel / 5MHz / QPSK



Date: 29_NOV.2019 21:30:19

Highest Channel / 5MHz / 16QAM

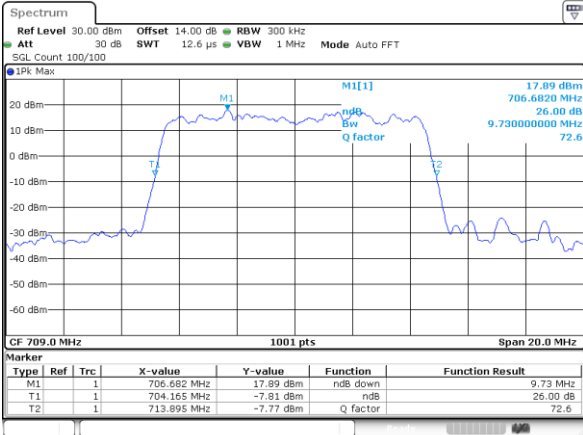


Date: 29_NOV.2019 21:30:30



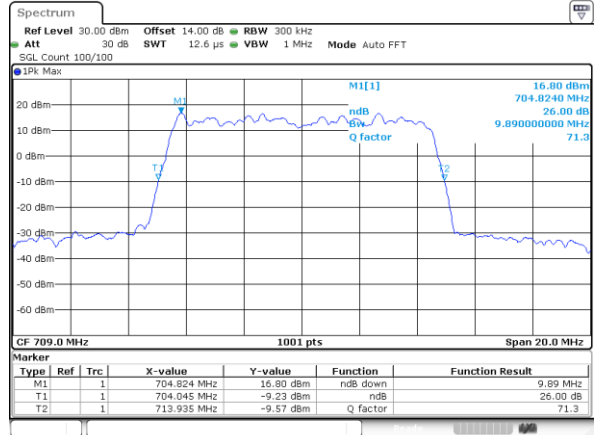
LTE Band 17

Lowest Channel / 10MHz / QPSK



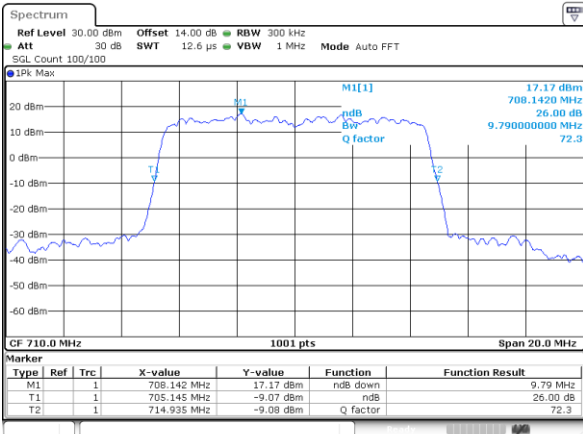
Date: 29.NOV.2019 21:36:26

Lowest Channel / 10MHz / 16QAM



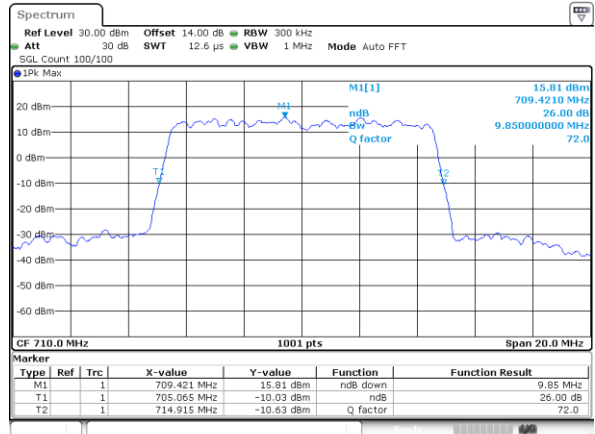
Date: 29.NOV.2019 21:36:37

Middle Channel / 10MHz / QPSK



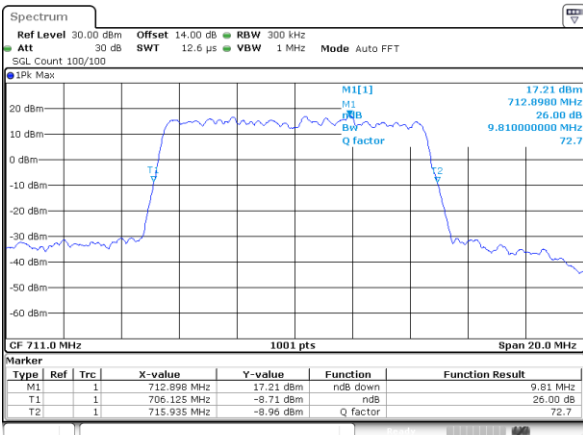
Date: 29.NOV.2019 21:42:32

Middle Channel / 10MHz / 16QAM



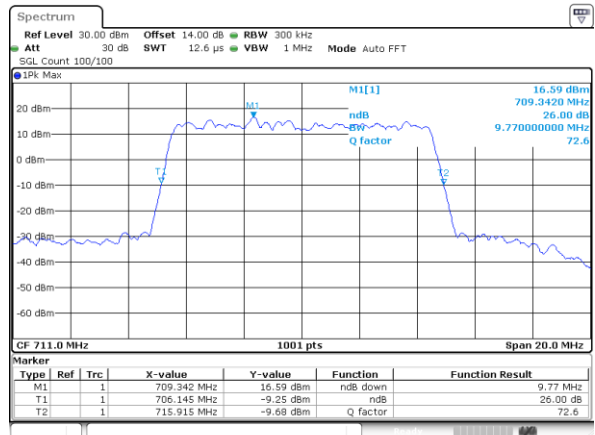
Date: 29.NOV.2019 21:42:44

Highest Channel / 10MHz / QPSK



Date: 29.NOV.2019 21:44:40

Highest Channel / 10MHz / 16QAM

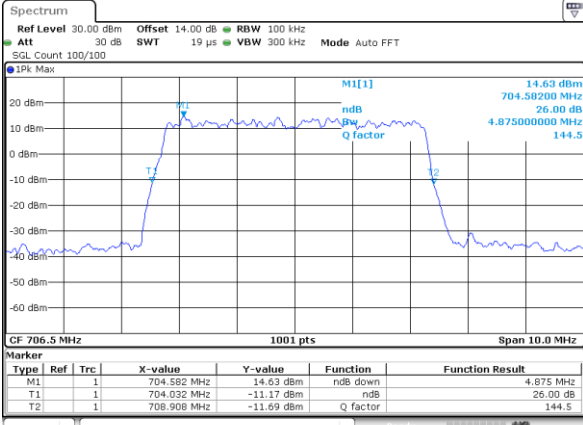


Date: 29.NOV.2019 21:44:51



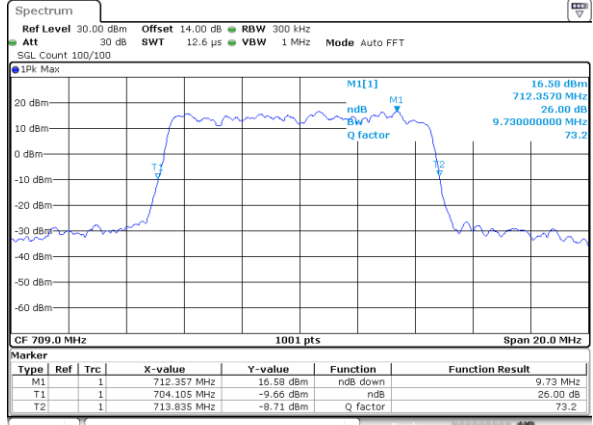
LTE Band 17

Lowest Channel / 5MHz / 64QAM



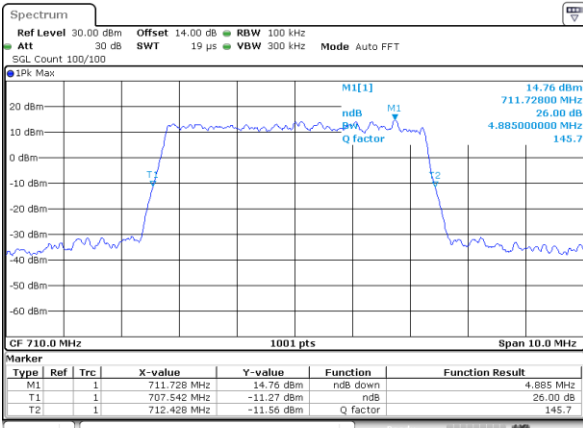
Date: 29_NOV.2019 21:50:35

Lowest Channel / 10MHz / 64QAM



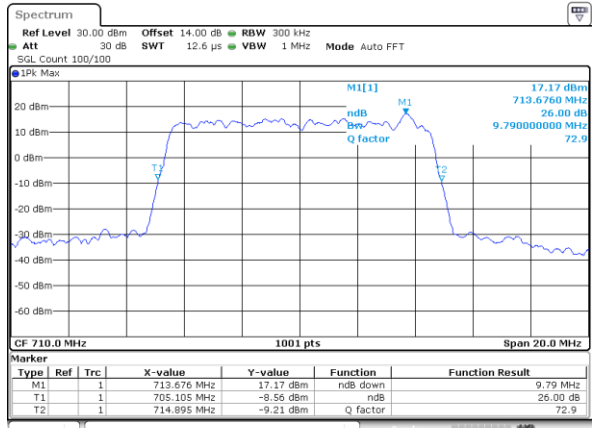
Date: 29_NOV.2019 21:57:46

Middle Channel / 5MHz / 64QAM



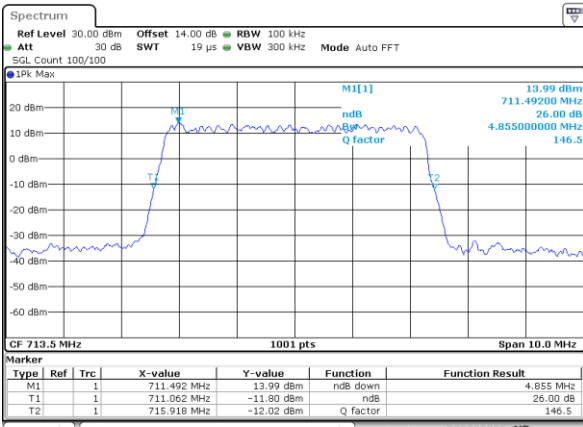
Date: 29_NOV.2019 21:53:39

Middle Channel / 10MHz / 64QAM



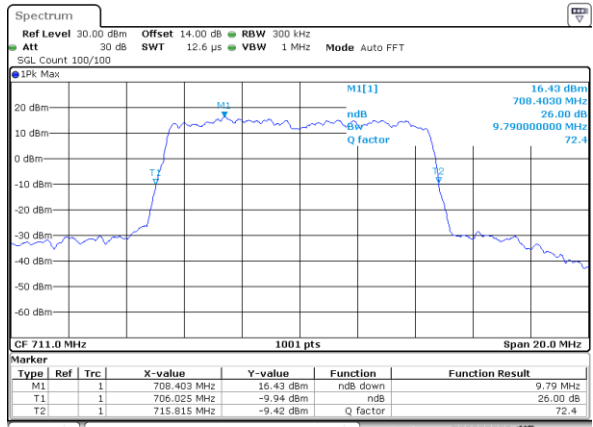
Date: 29_NOV.2019 22:00:50

Highest Channel / 5MHz / 64QAM



Date: 29_NOV.2019 21:54:43

Highest Channel / 10MHz / 64QAM



Date: 29_NOV.2019 22:01:53



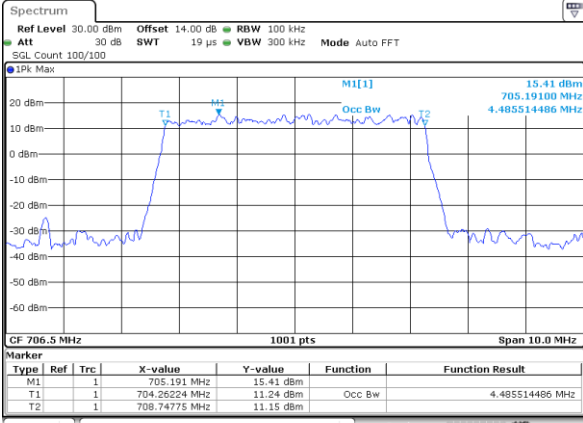
Occupied Bandwidth

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	-	-	-	-	4.49	4.51	9.01	9.03	-	-	-	-
Middle CH	-	-	-	-	4.49	4.67	9.09	8.99	-	-	-	-
Highest CH	-	-	-	-	4.50	4.76	8.95	9.03	-	-	-	-
Mode	LTE Band 17 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.48	9.03	-	-	-	-	-	-
Middle CH	-	-	-	-	4.52	9.01	-	-	-	-	-	-
Highest CH	-	-	-	-	4.51	8.99	-	-	-	-	-	-



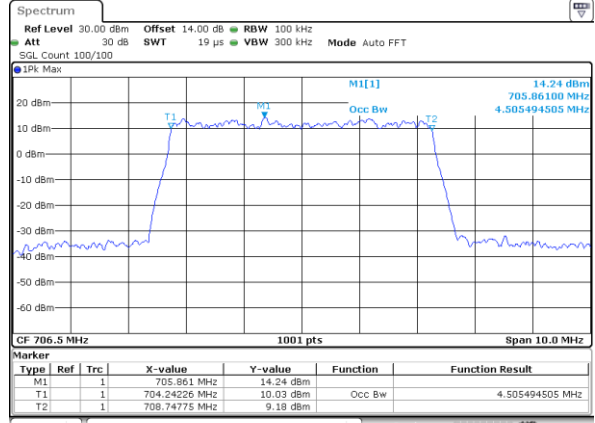
LTE Band 17

Lowest Channel / 5MHz / QPSK



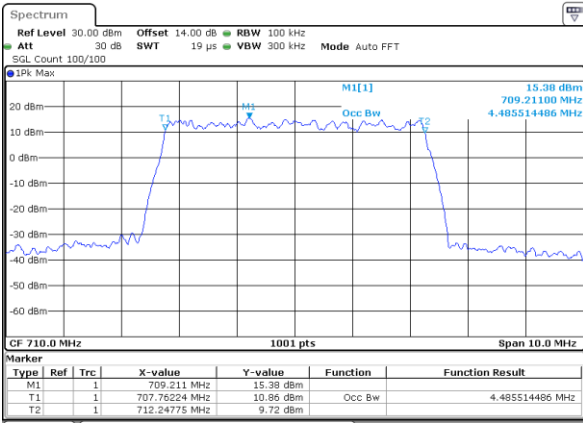
Date: 29_NOV.2019 21:21:41

Lowest Channel / 5MHz / 16QAM



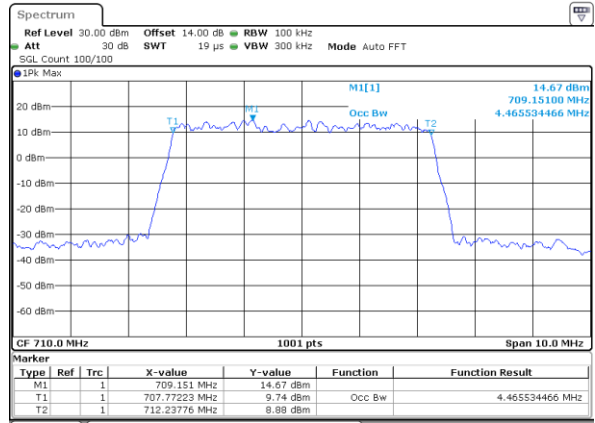
Date: 29_NOV.2019 21:21:52

Middle Channel / 5MHz / QPSK



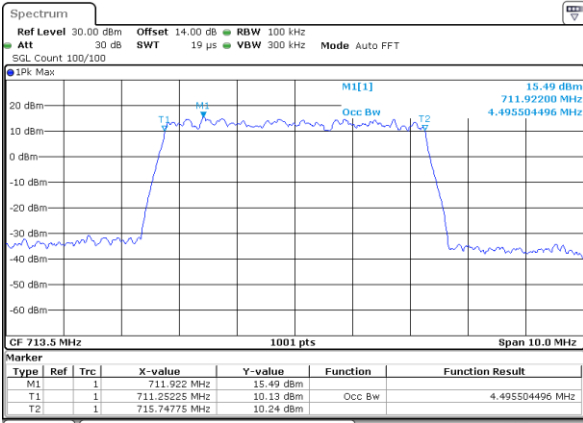
Date: 29_NOV.2019 21:27:48

Middle Channel / 5MHz / 16QAM



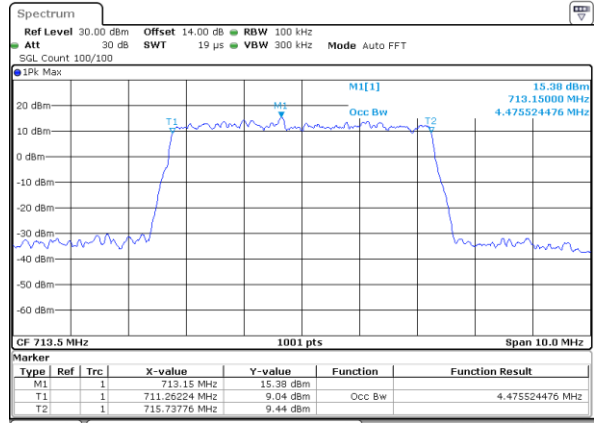
Date: 29_NOV.2019 21:28:00

Highest Channel / 5MHz / QPSK



Date: 29_NOV.2019 21:29:56

Highest Channel / 5MHz / 16QAM

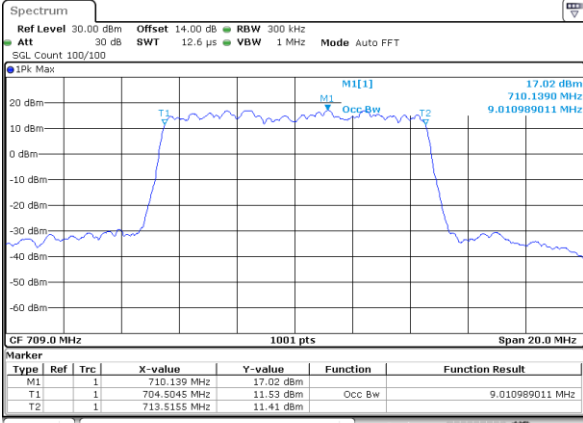


Date: 29_NOV.2019 21:30:07



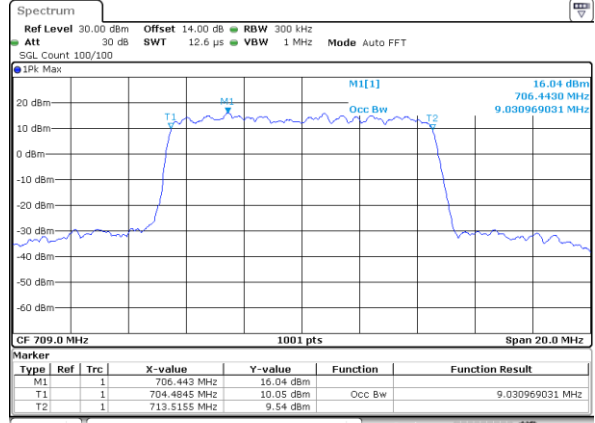
LTE Band 17

Lowest Channel / 10MHz / QPSK



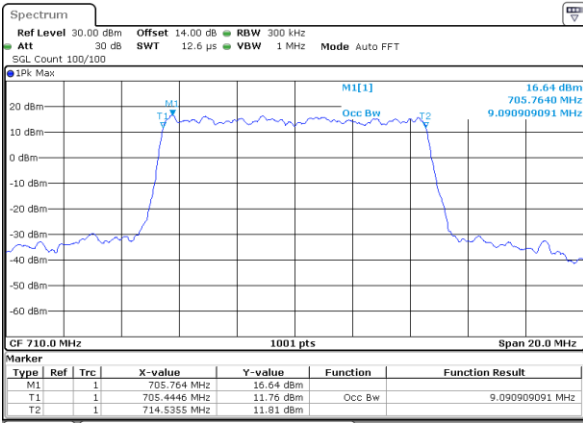
Date: 29.NOV.2019 21:36:04

Lowest Channel / 10MHz / 16QAM



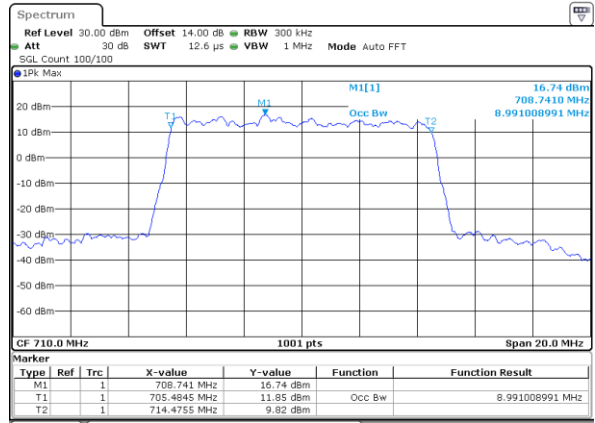
Date: 29.NOV.2019 21:36:15

Middle Channel / 10MHz / QPSK



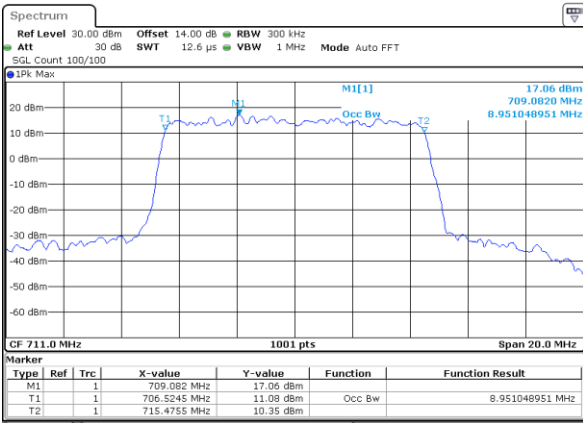
Date: 29.NOV.2019 21:42:10

Middle Channel / 10MHz / 16QAM



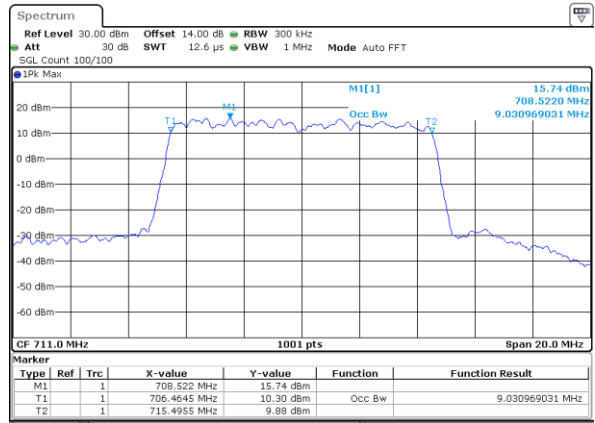
Date: 29.NOV.2019 21:42:21

Highest Channel / 10MHz / QPSK



Date: 29.NOV.2019 21:44:17

Highest Channel / 10MHz / 16QAM

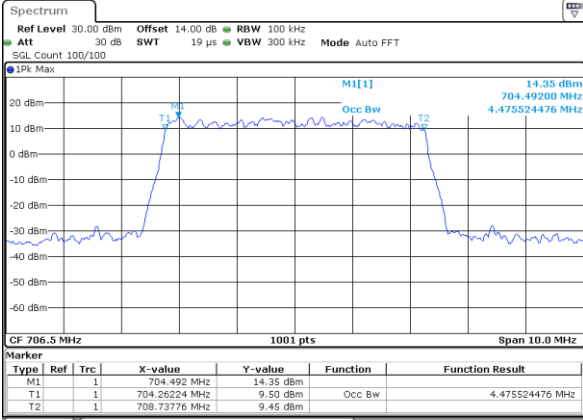


Date: 29.NOV.2019 21:44:29



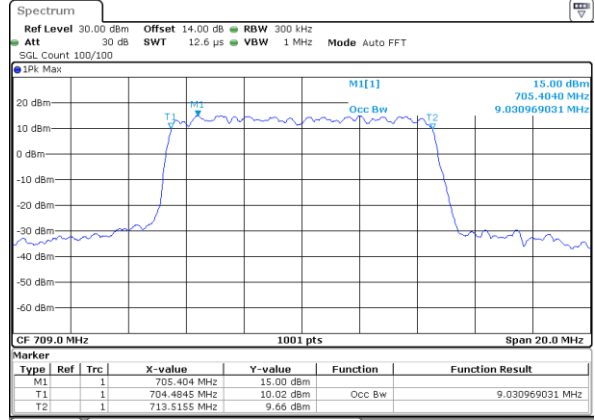
LTE Band 17

Lowest Channel / 5MHz / 64QAM



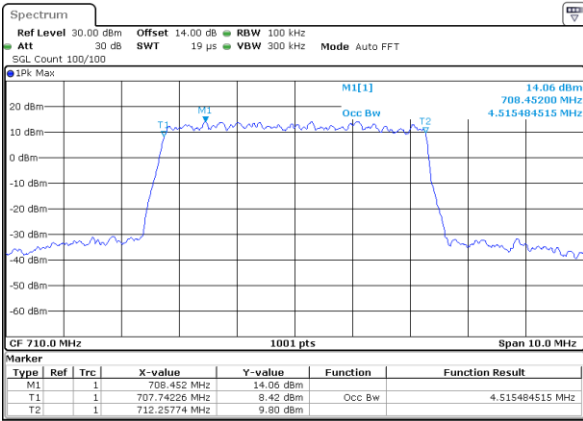
Date: 29_NOV.2019 21:50:24

Lowest Channel / 10MHz / 64QAM



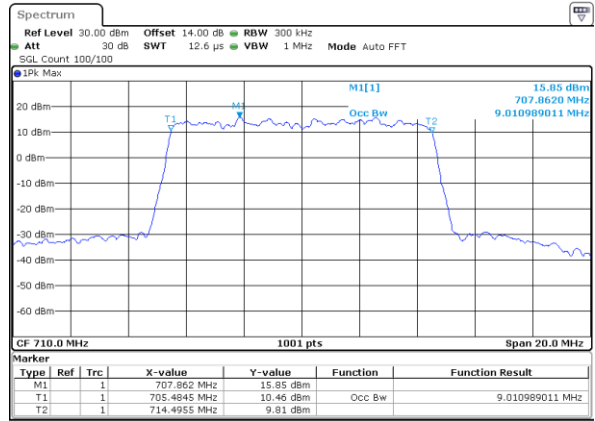
Date: 29_NOV.2019 21:57:35

Middle Channel / 5MHz / 64QAM



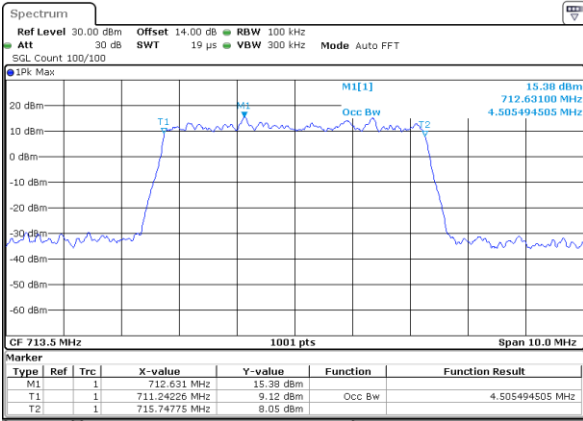
Date: 29_NOV.2019 21:53:27

Middle Channel / 10MHz / 64QAM



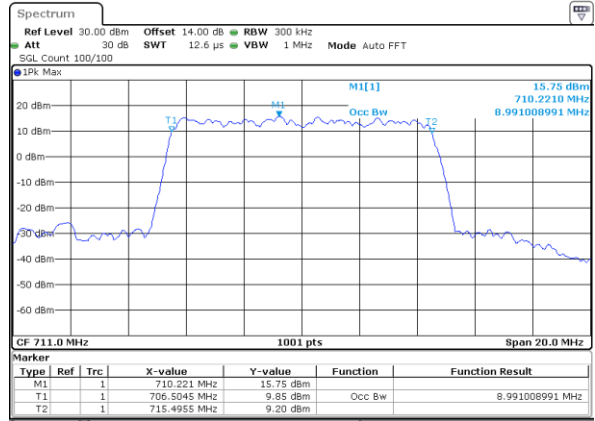
Date: 29_NOV.2019 22:00:39

Highest Channel / 5MHz / 64QAM



Date: 29_NOV.2019 21:54:33

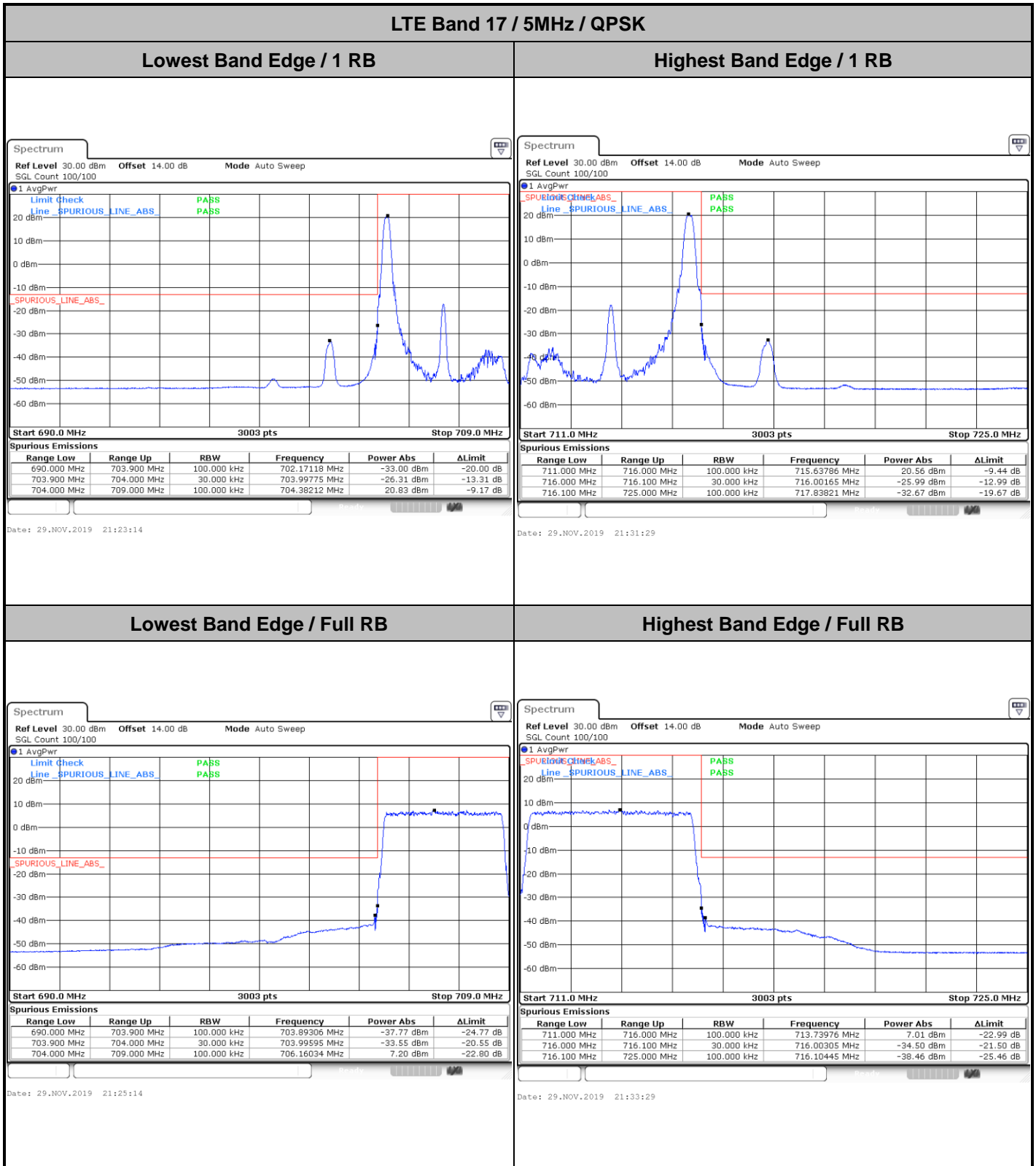
Highest Channel / 10MHz / 64QAM



Date: 29_NOV.2019 22:01:42



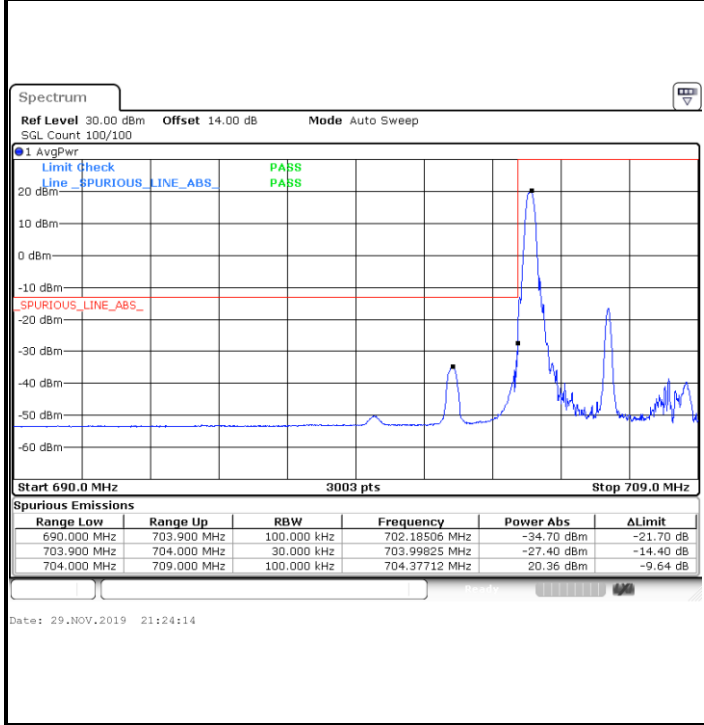
Conducted Band Edge



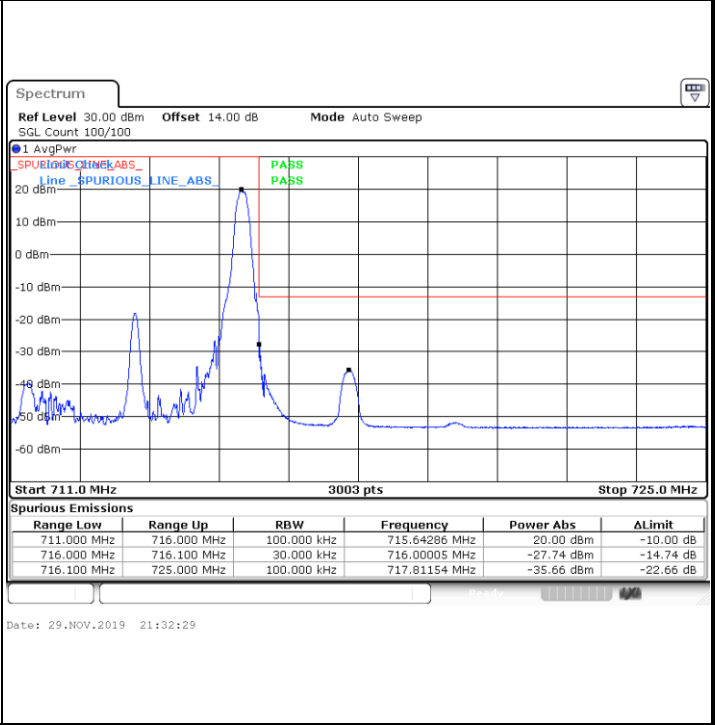


LTE Band 17 / 5MHz / 16QAM

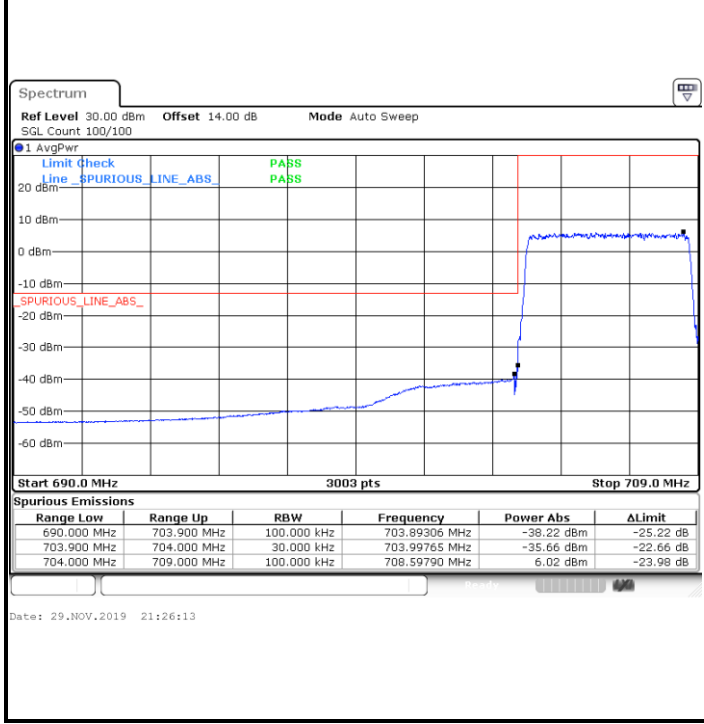
Lowest Band Edge / 1 RB



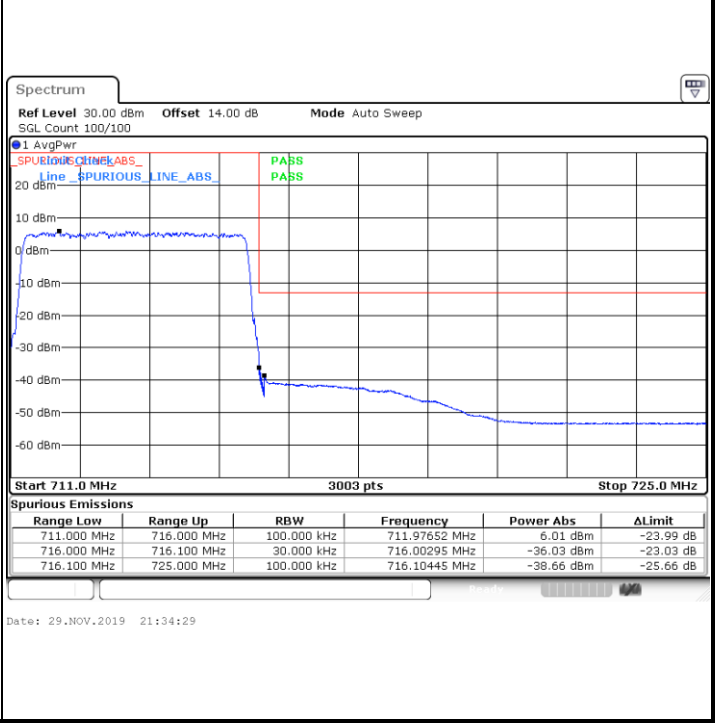
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



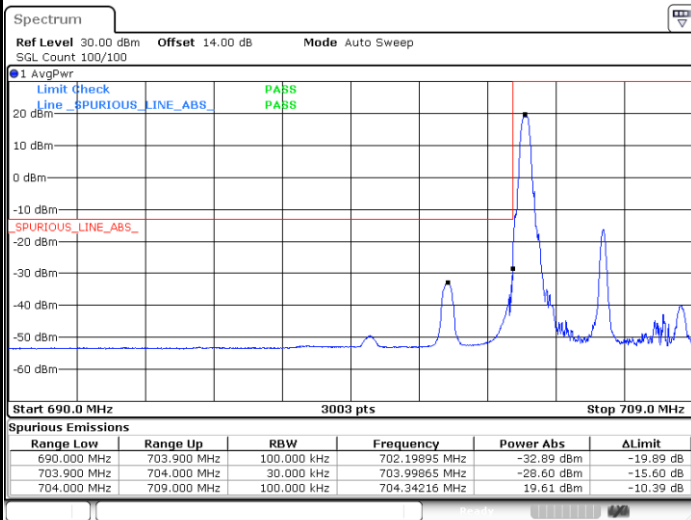
Highest Band Edge / Full RB





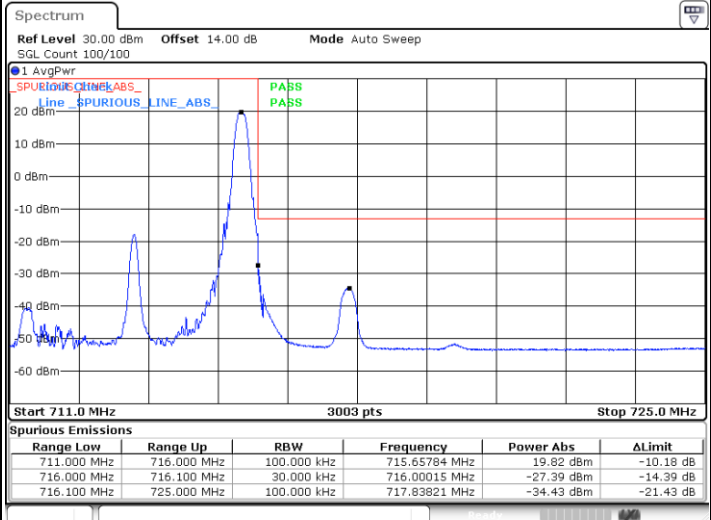
LTE Band 17 / 5MHz / 64QAM

Lowest Band Edge / 1 RB



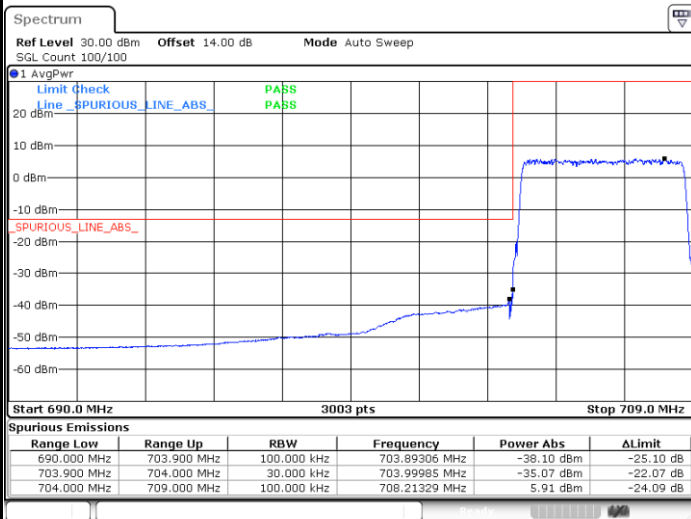
Date: 29.NOV.2019 21:51:35

Highest Band Edge / 1 RB



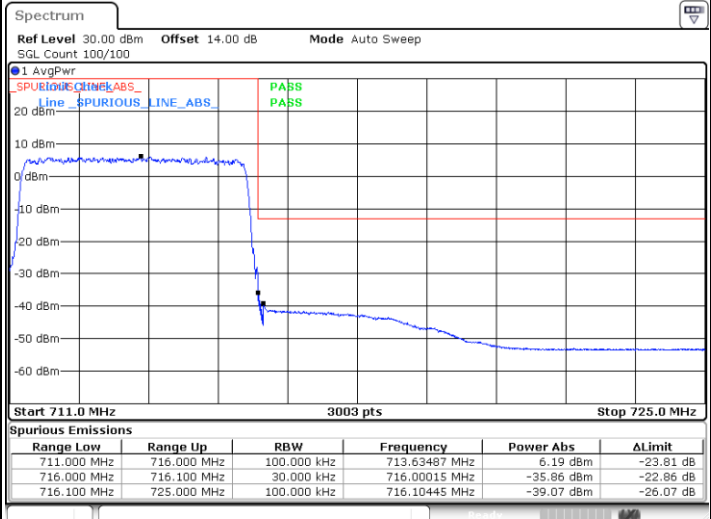
Date: 29.NOV.2019 21:55:42

Lowest Band Edge / Full RB



Date: 29.NOV.2019 21:52:35

Highest Band Edge / Full RB



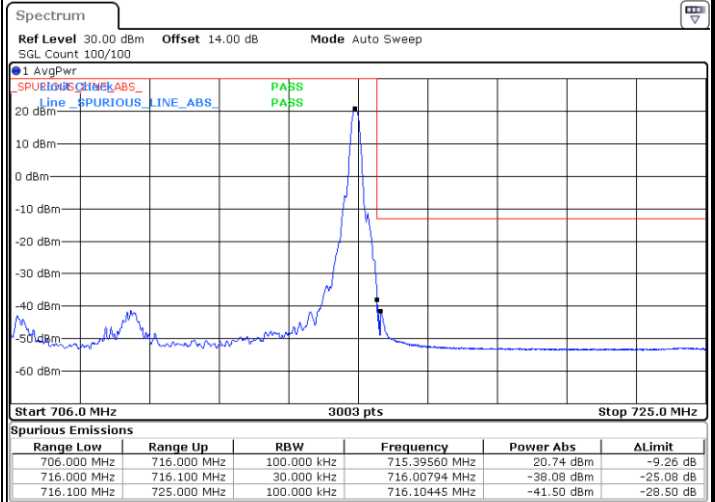
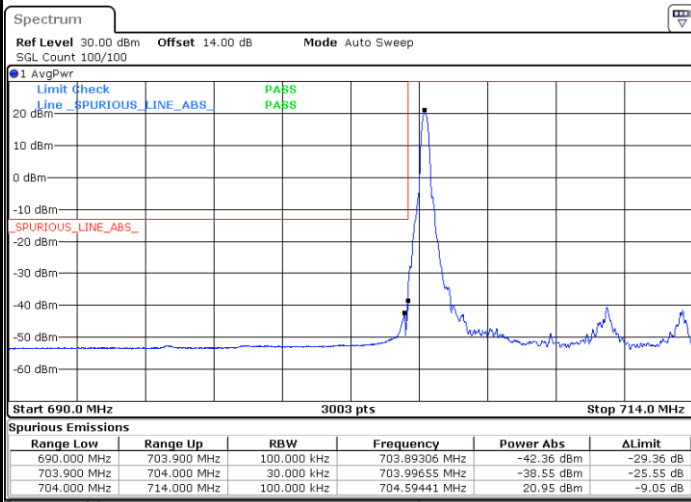
Date: 29.NOV.2019 21:56:42



LTE Band 17 / 10MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

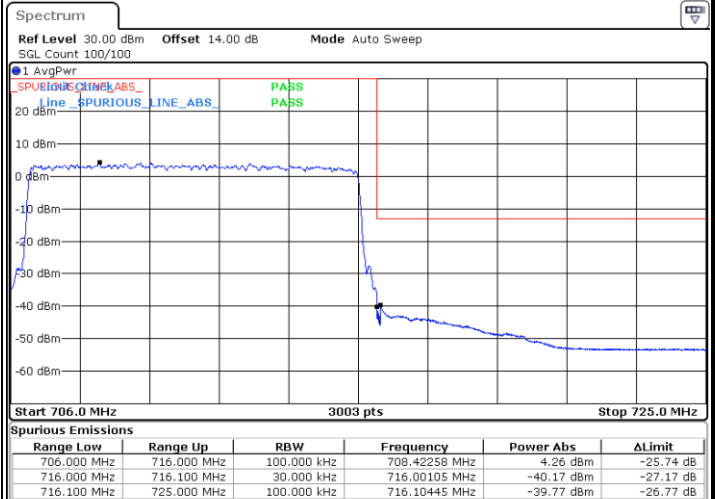
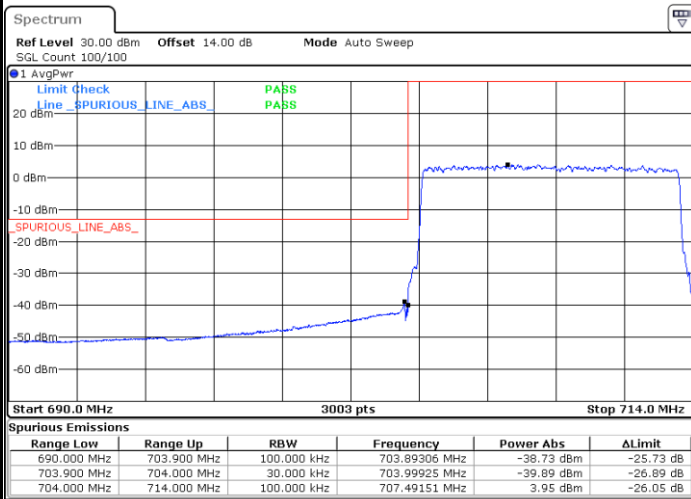


Date: 29.NOV.2019 21:37:37

Date: 29.NOV.2019 21:45:50

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



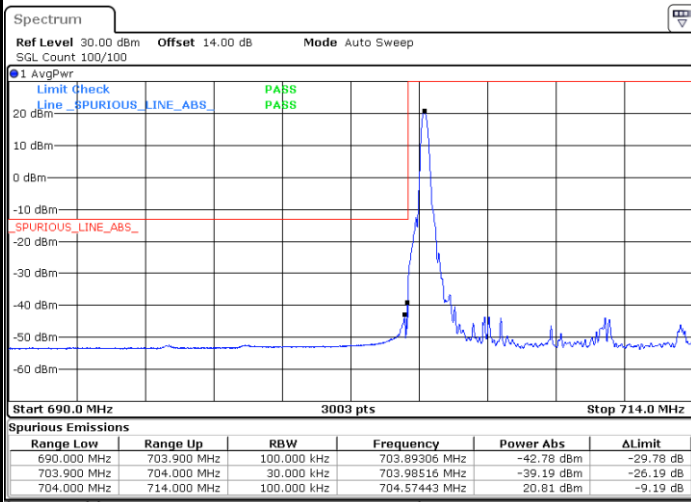
Date: 29.NOV.2019 21:39:37

Date: 29.NOV.2019 21:47:50



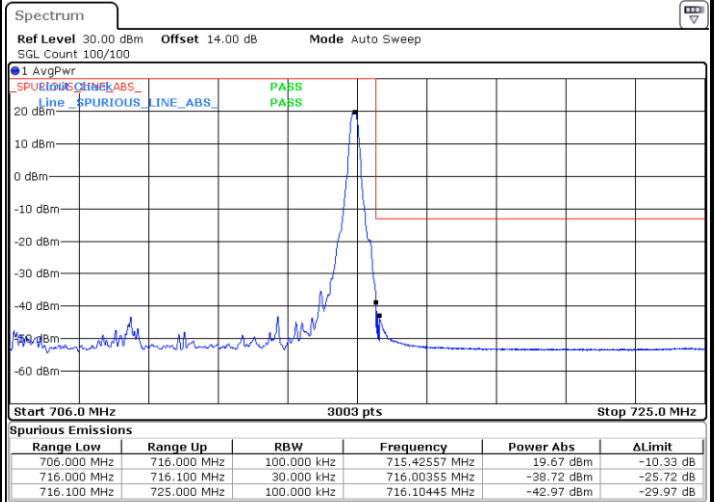
LTE Band 17 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



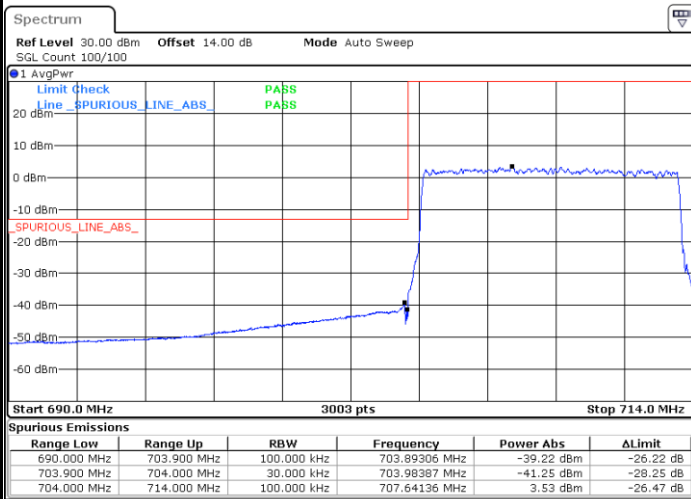
Date: 29.NOV.2019 21:38:37

Highest Band Edge / 1 RB



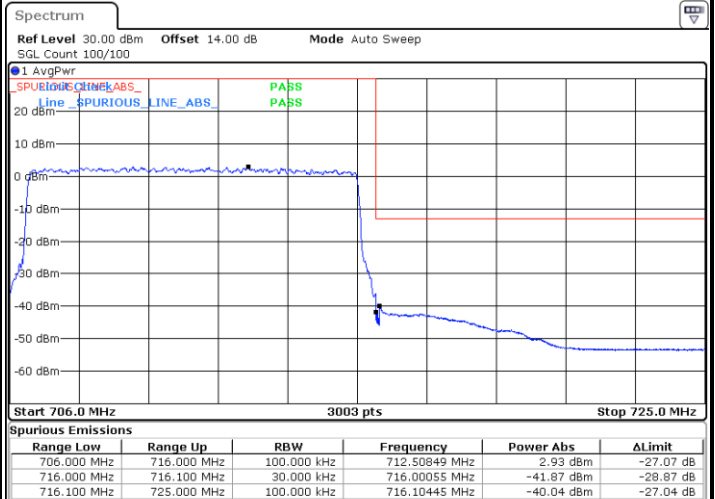
Date: 29.NOV.2019 21:46:50

Lowest Band Edge / Full RB



Date: 29.NOV.2019 21:40:36

Highest Band Edge / Full RB

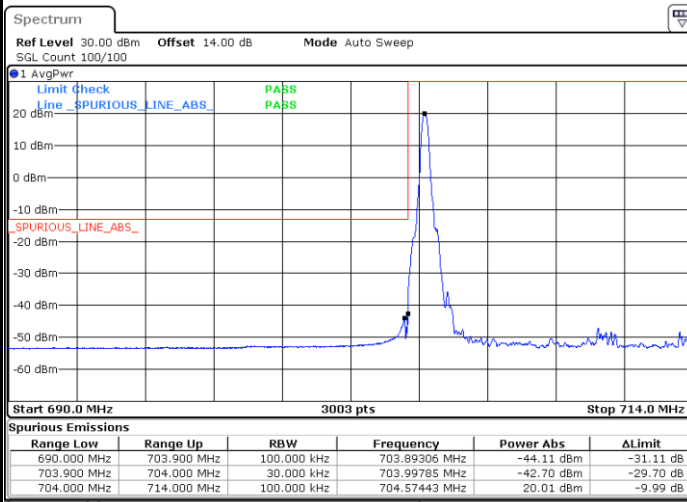


Date: 29.NOV.2019 21:48:50



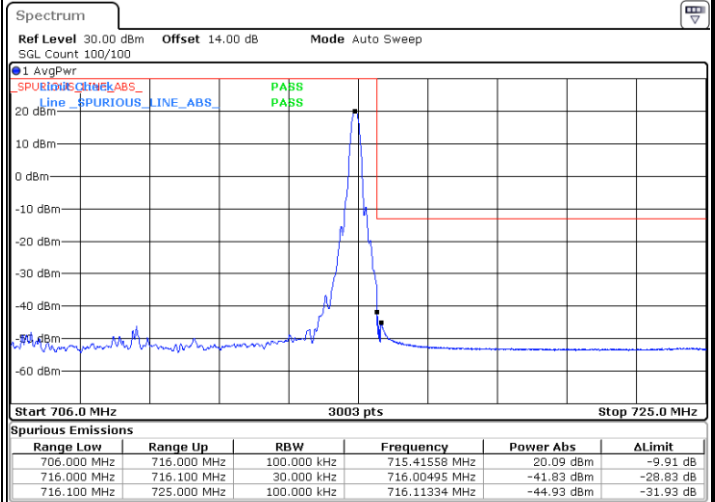
LTE Band 17 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



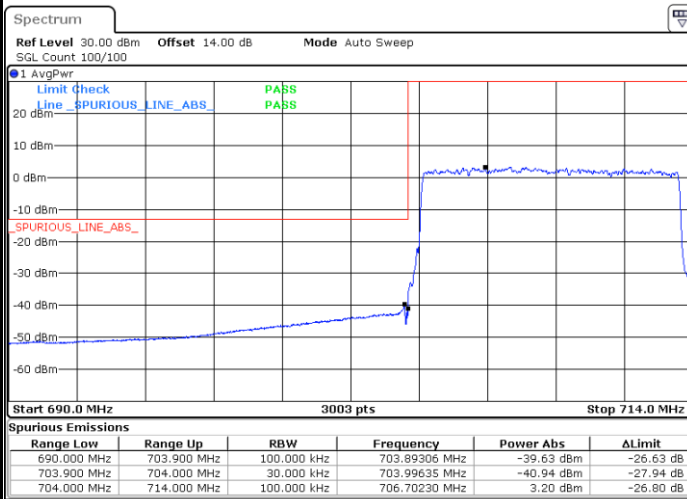
Date: 29.NOV.2019 21:58:46

Highest Band Edge / 1 RB



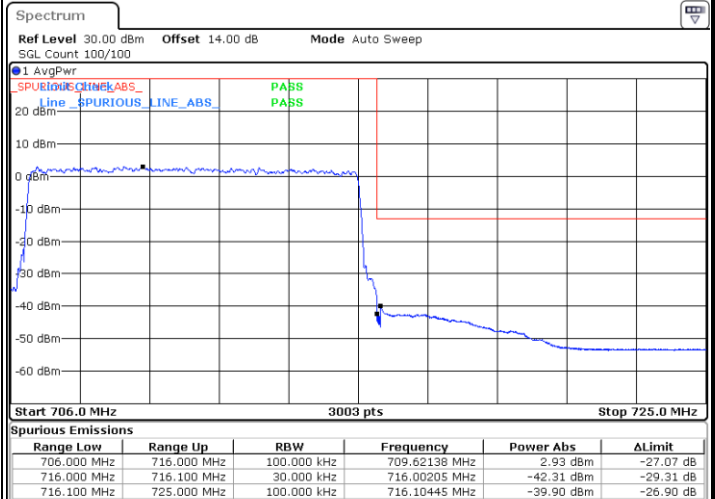
Date: 29.NOV.2019 22:02:53

Lowest Band Edge / Full RB



Date: 29.NOV.2019 21:59:46

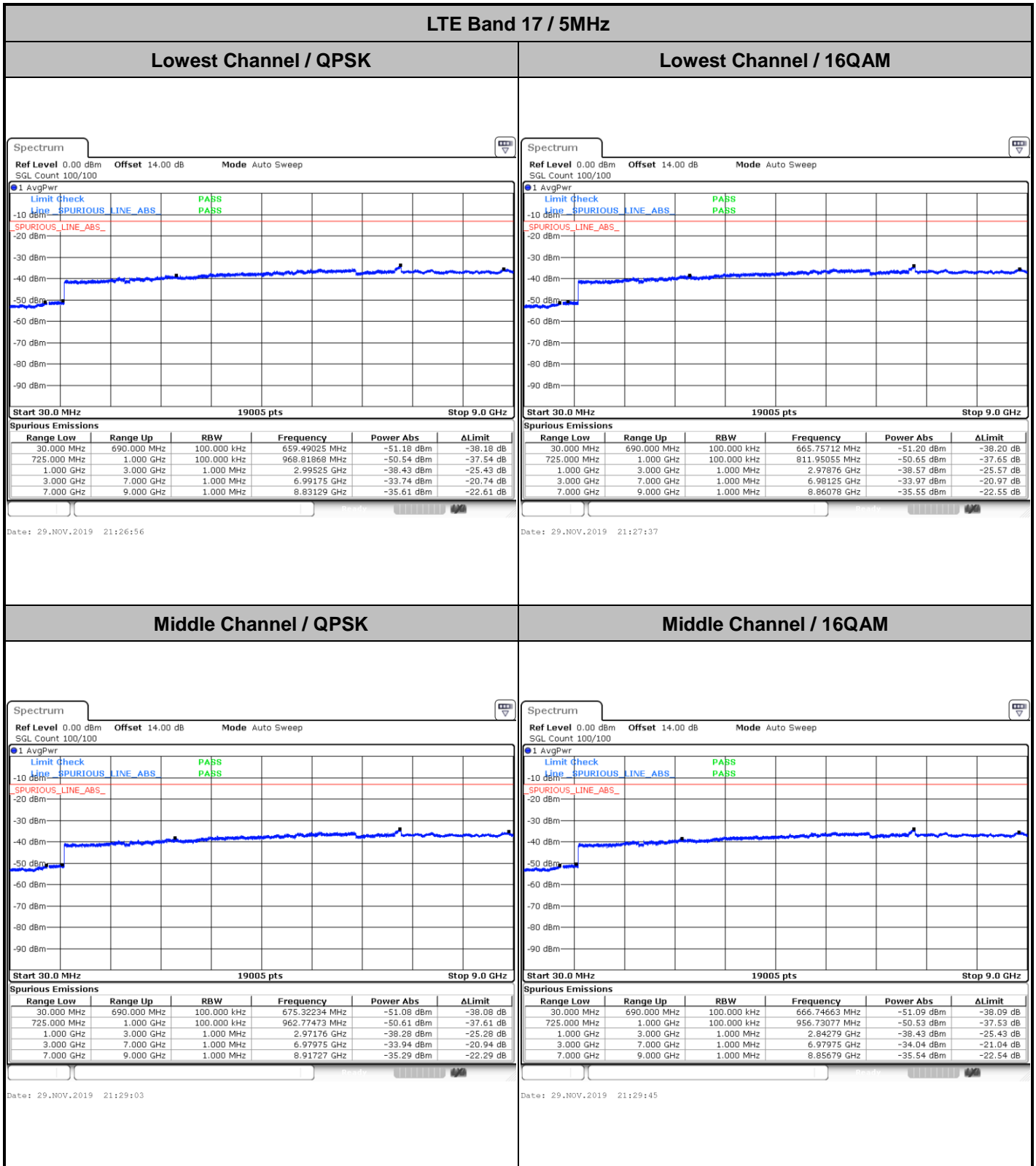
Highest Band Edge / Full RB



Date: 29.NOV.2019 22:03:53



Conducted Spurious Emission

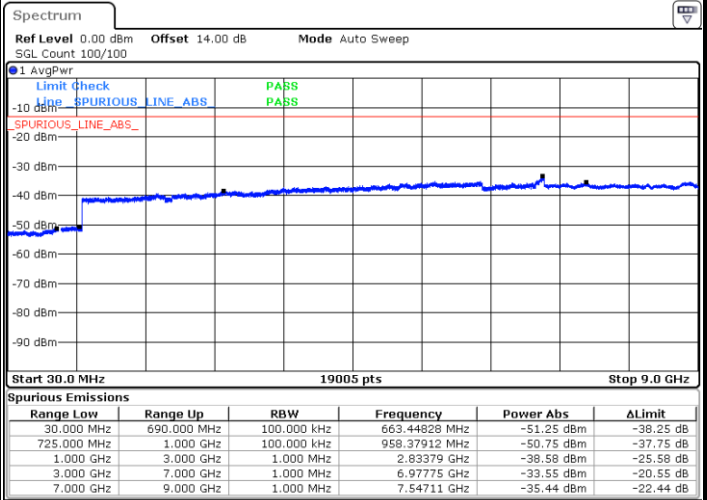
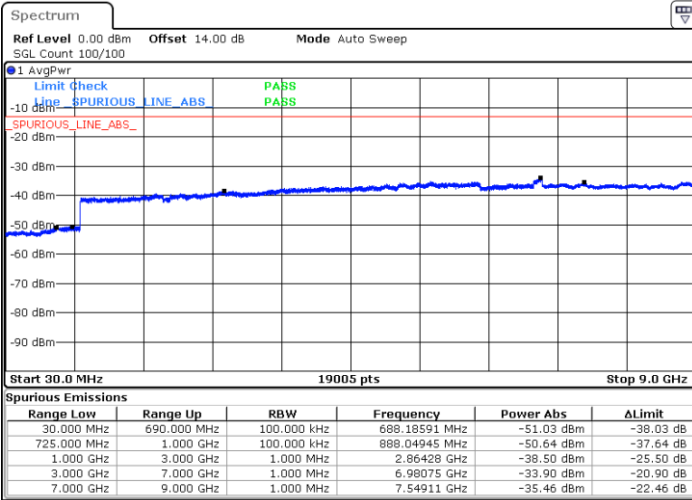




LTE Band 17 / 5MHz

Highest Channel / QPSK

Highest Channel / 16QAM



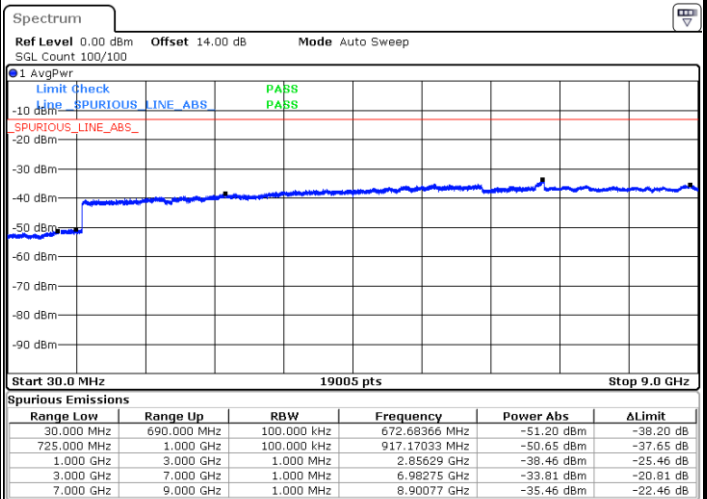
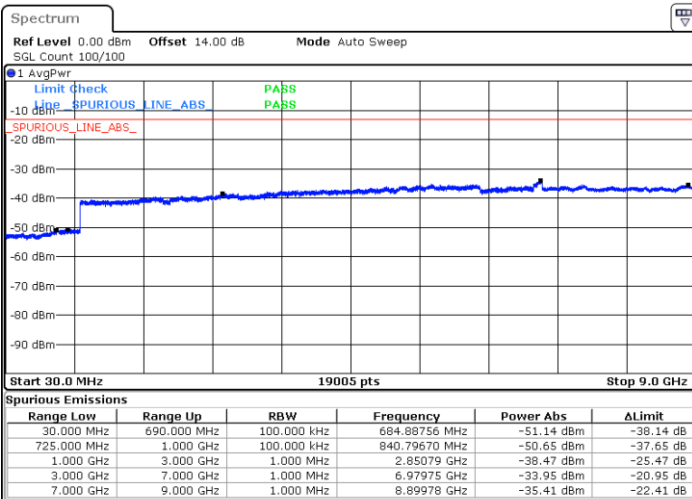
Date: 29.NOV.2019 21:35:11

Date: 29.NOV.2019 21:35:52

LTE Band 17 / 10MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



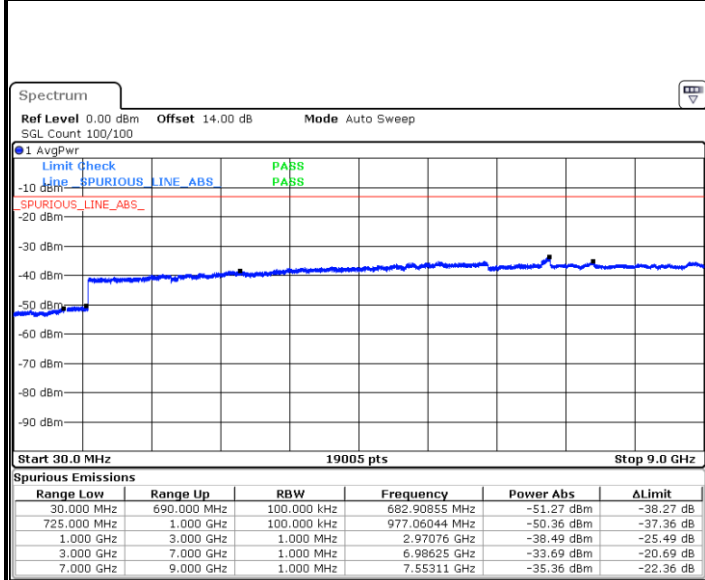
Date: 29.NOV.2019 21:41:18

Date: 29.NOV.2019 21:41:59



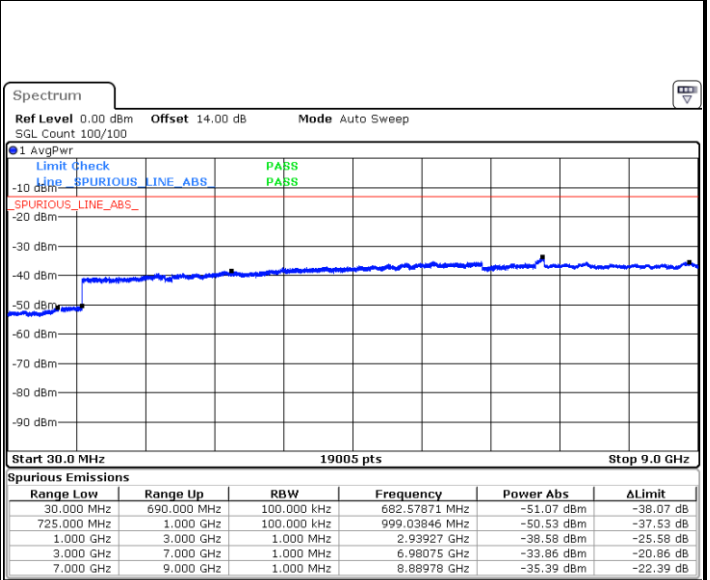
LTE Band 17 / 10MHz

Middle Channel / QPSK



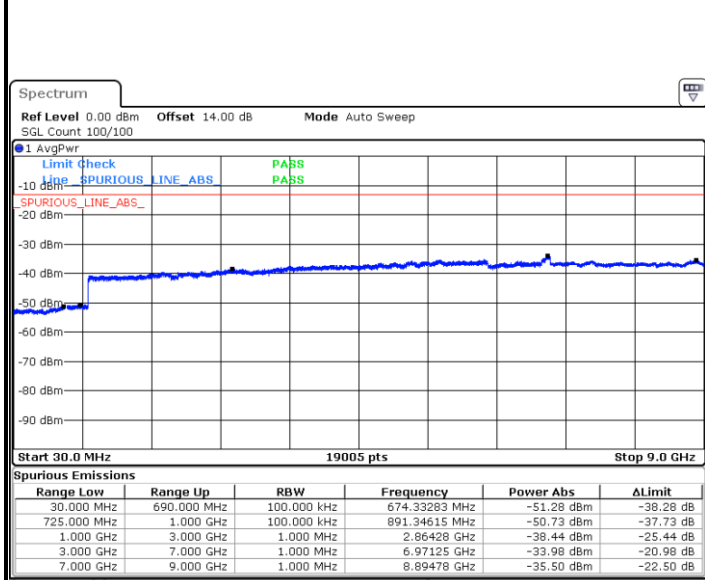
Date: 29.NOV.2019 21:43:25

Middle Channel / 16QAM



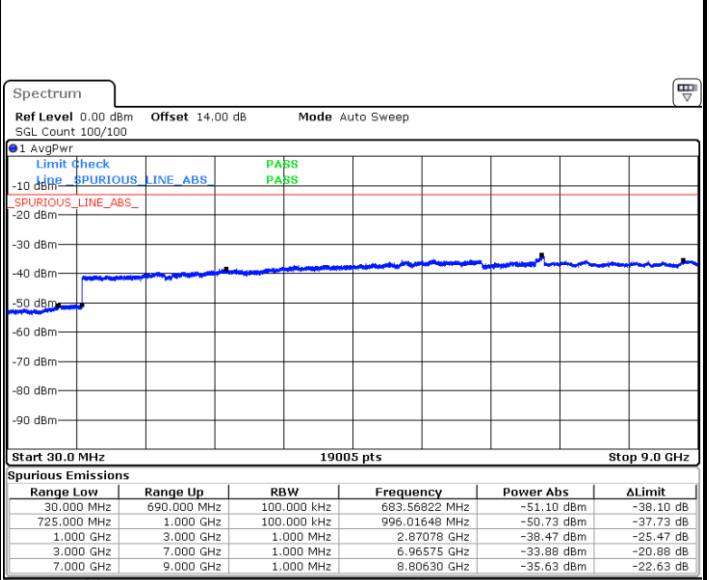
Date: 29.NOV.2019 21:44:06

Highest Channel / QPSK



Date: 29.NOV.2019 21:49:32

Highest Channel / 16QAM



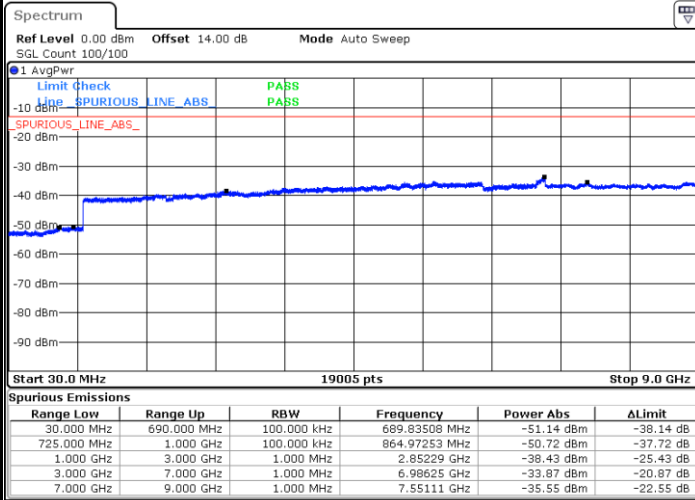
Date: 29.NOV.2019 21:50:13



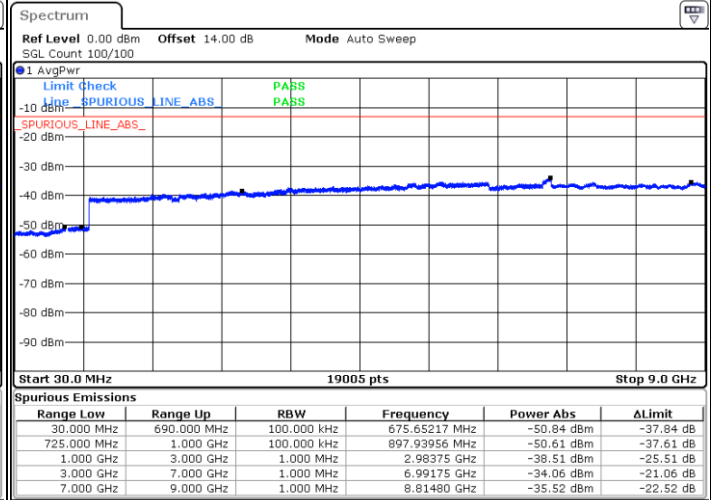
LTE Band 17 / 5MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

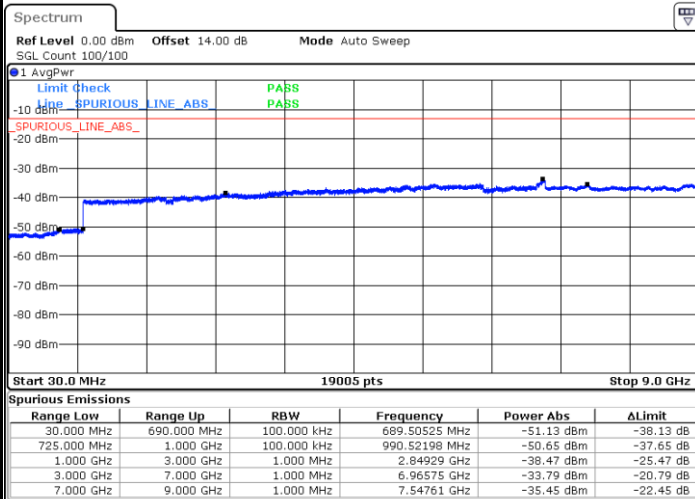


Date: 29.NOV.2019 21:53:17



Date: 29.NOV.2019 21:54:20

Highest Channel / 64QAM



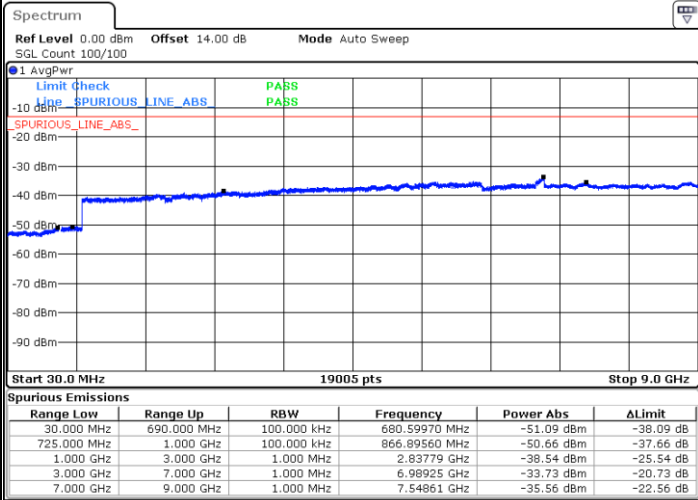
Date: 29.NOV.2019 21:57:24



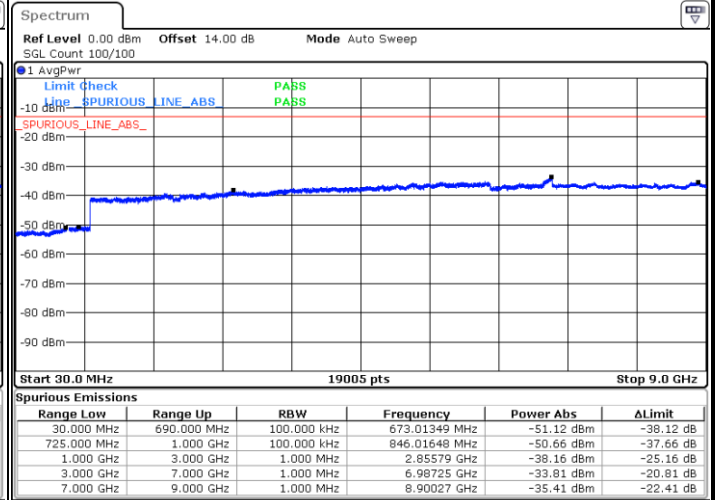
LTE Band 17 / 10MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

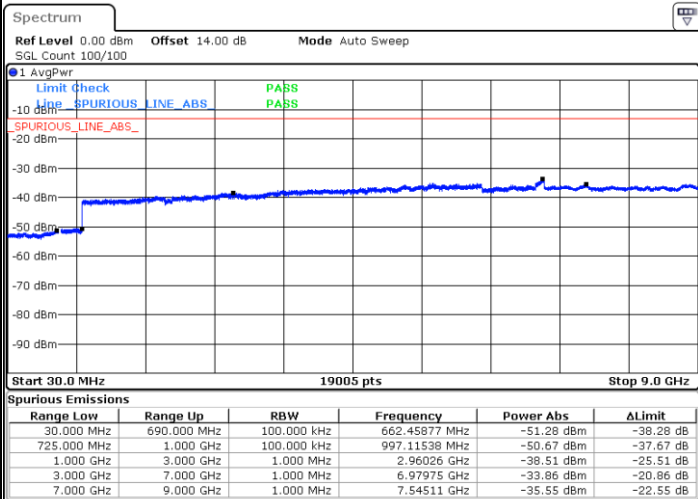


Date: 29.NOV.2019 22:00:27



Date: 29.NOV.2019 22:01:31

Highest Channel / 64QAM



Date: 29.NOV.2019 22:04:35



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	0.0024	PASS
40	Normal Voltage	0.0032	
30	Normal Voltage	0.0001	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0017	
0	Normal Voltage	0.0039	
-10	Normal Voltage	0.0001	
-20	Normal Voltage	0.0001	
-30	Normal Voltage	0.0011	
20	Maximum Voltage	0.0032	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0028	

Note:

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.45 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 38

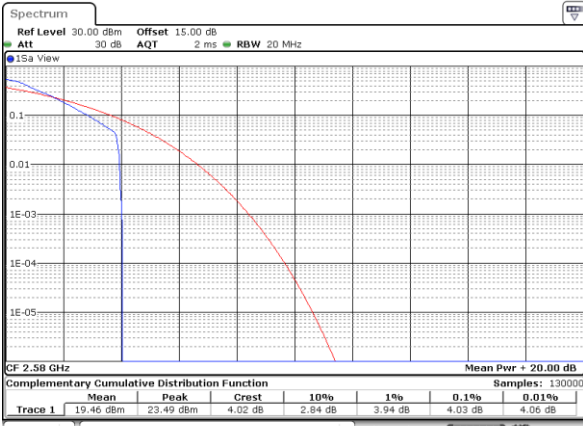
Peak-to-Average Ratio

Mode	LTE Band 38 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.03	5.59	5.36	6.14	PASS
Middle CH	5.42	6.29	6.00	6.09	
Highest CH	4.14	6.52	5.48	6.58	
Mode	LTE Band 38 / 20MHz				
Mod.	64QAM		-		Limit: 13dB
RB Size	1RB	Full RB	-	-	Result
Lowest CH	6.09	7.13	-	-	PASS
Middle CH	5.54	6.58	-	-	
Highest CH	6.02	7.30	-	-	



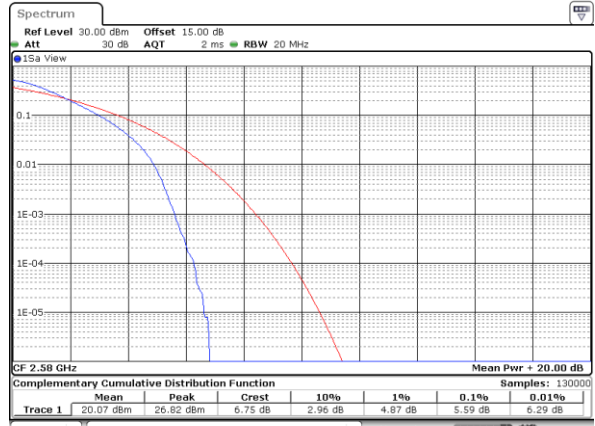
LTE Band 38 / 20MHz / QPSK

Lowest Channel / 1RB



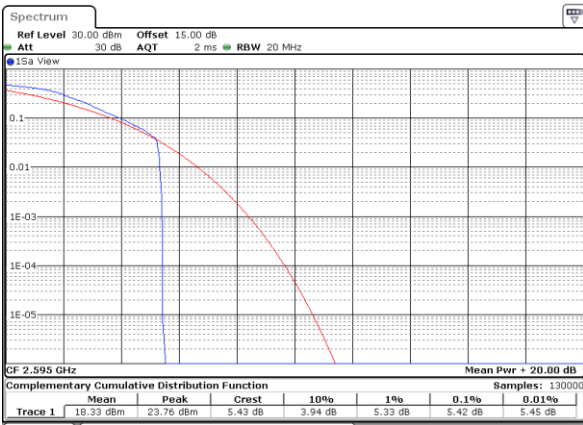
Date: 1.DEC.2019 00:45:14

Lowest Channel / Full RB



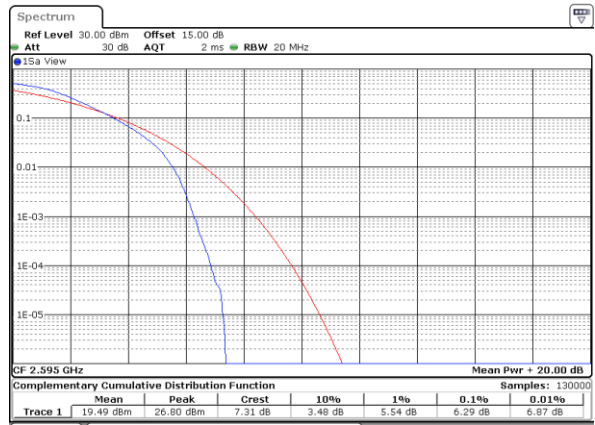
Date: 1.DEC.2019 00:45:36

Middle Channel / 1RB



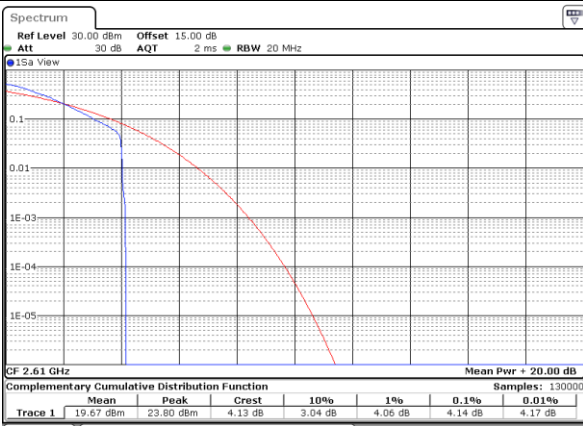
Date: 1.DEC.2019 00:45:48

Middle Channel / Full RB



Date: 1.DEC.2019 00:49:22

Highest Channel / 1RB



Date: 1.DEC.2019 00:46:20

Highest Channel / Full RB

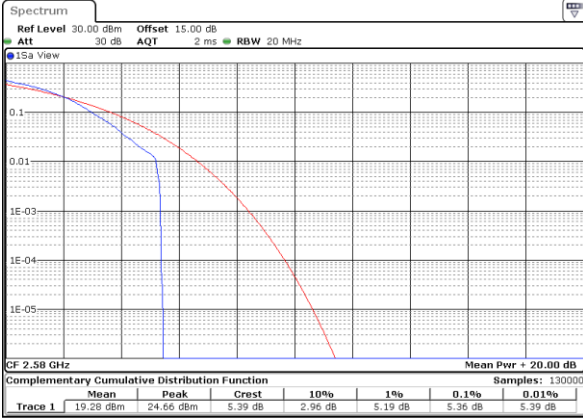


Date: 1.DEC.2019 00:46:32



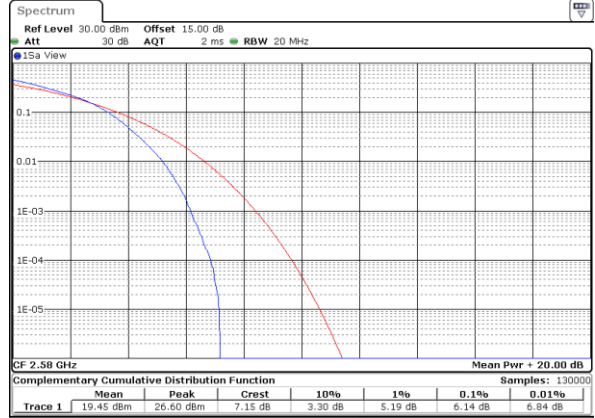
LTE Band 38 / 20MHz / 16QAM

Lowest Channel / 1RB



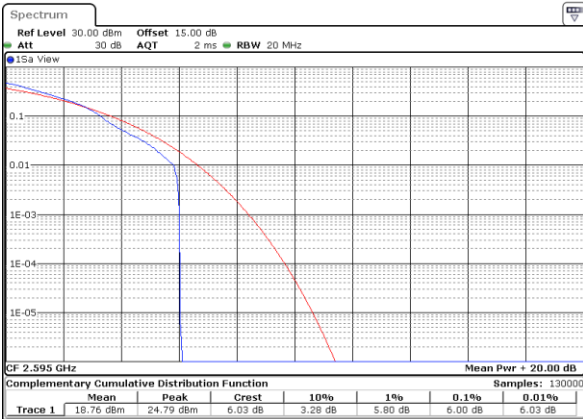
Date: 1.DEC.2019 00:43:37

Lowest Channel / Full RB



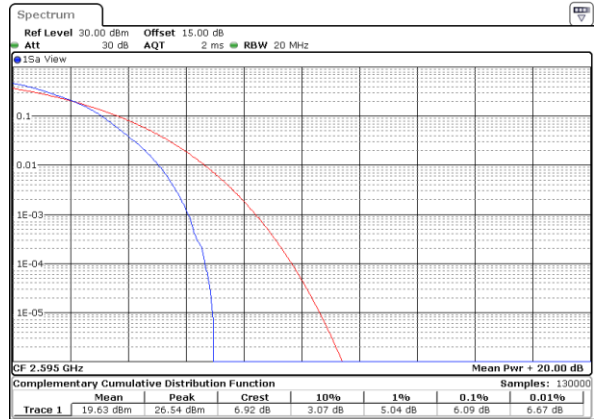
Date: 1.DEC.2019 00:43:58

Middle Channel / 1RB



Date: 1.DEC.2019 00:44:21

Middle Channel / Full RB



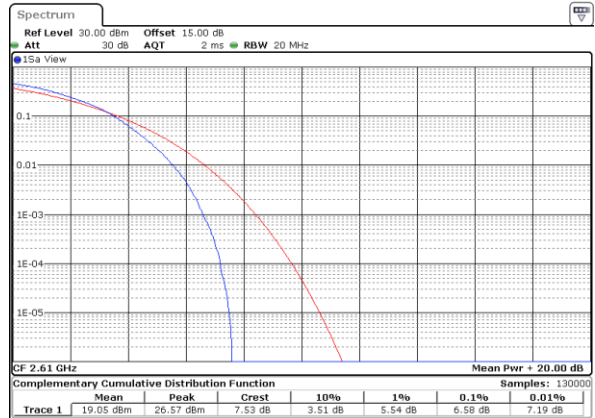
Date: 1.DEC.2019 00:44:40

Highest Channel / 1RB



Date: 1.DEC.2019 00:44:51

Highest Channel / Full RB

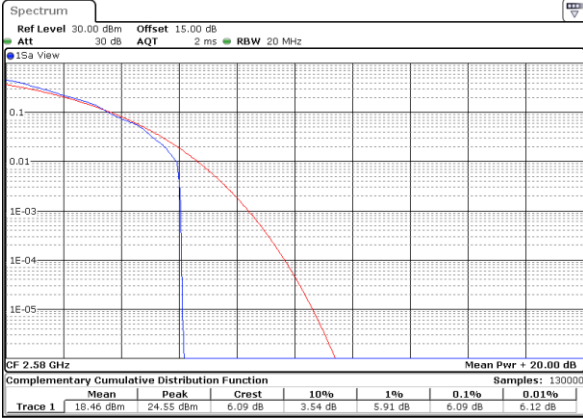


Date: 1.DEC.2019 00:45:02



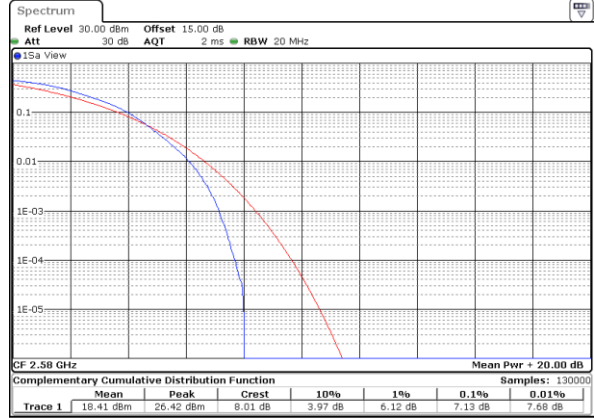
LTE Band 38 / 20MHz / 64QAM

Lowest Channel / 1RB



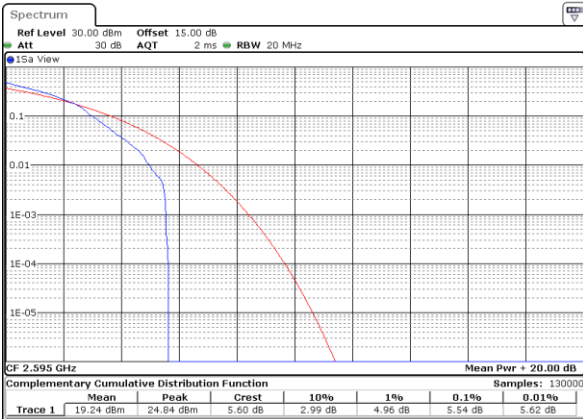
Date: 1.DEC.2019 00:41:32

Lowest Channel / Full RB



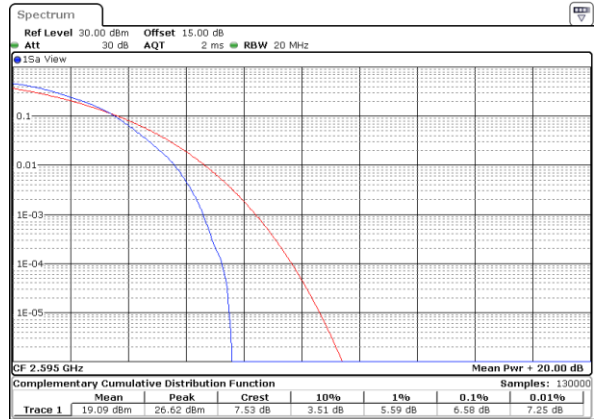
Date: 1.DEC.2019 00:41:44

Middle Channel / 1RB



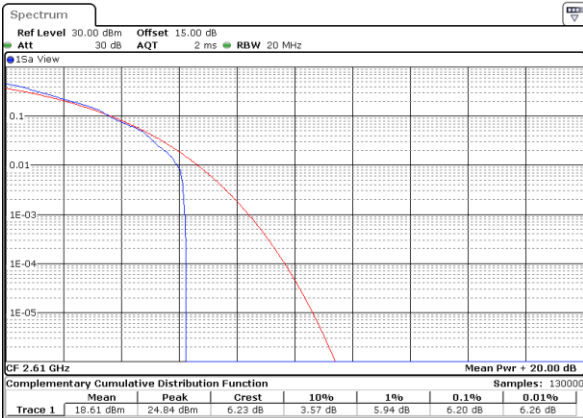
Date: 1.DEC.2019 00:42:24

Middle Channel / Full RB



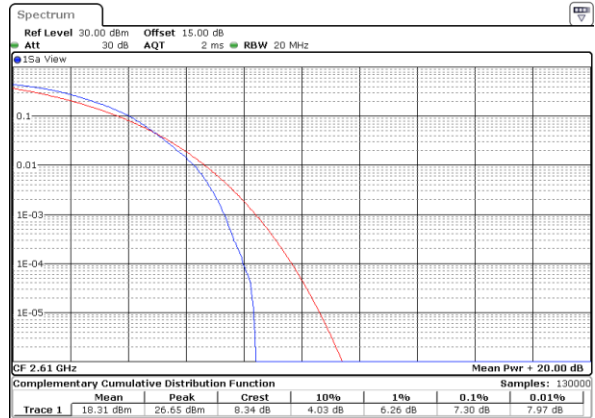
Date: 1.DEC.2019 00:42:43

Highest Channel / 1RB



Date: 1.DEC.2019 00:43:00

Highest Channel / Full RB



Date: 1.DEC.2019 00:43:19



26dB Bandwidth

Mode	LTE Band 38 : 26dB BW(MHz)							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	4.795	4.875	9.77	9.69	14.356	14.116	18.821	18.981
Middle CH	4.945	4.865	9.71	9.61	14.296	14.266	18.901	18.621
Highest CH	4.945	4.845	9.69	9.63	14.236	14.236	18.661	18.701
Mode	LTE Band 38 : 26dB BW(MHz)							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM	
Lowest CH	4.785		9.85		14.266		18.701	
Middle CH	4.705		9.77		14.056		18.781	
Highest CH	4.805		9.65		14.356		18.621	