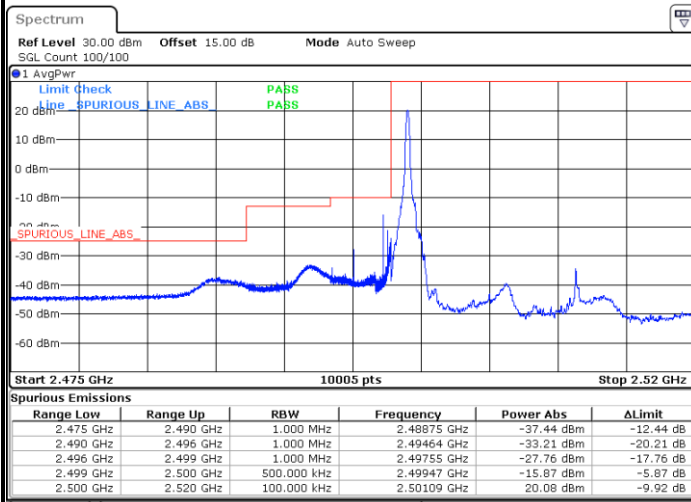


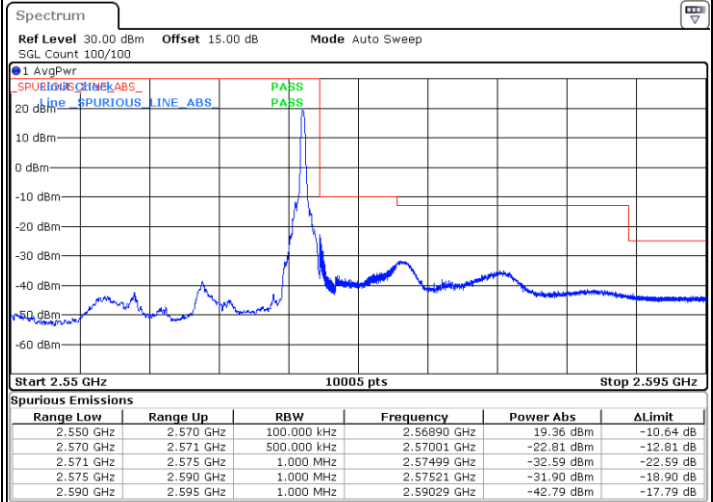


LTE Band 7 / 20MHz / QPSK

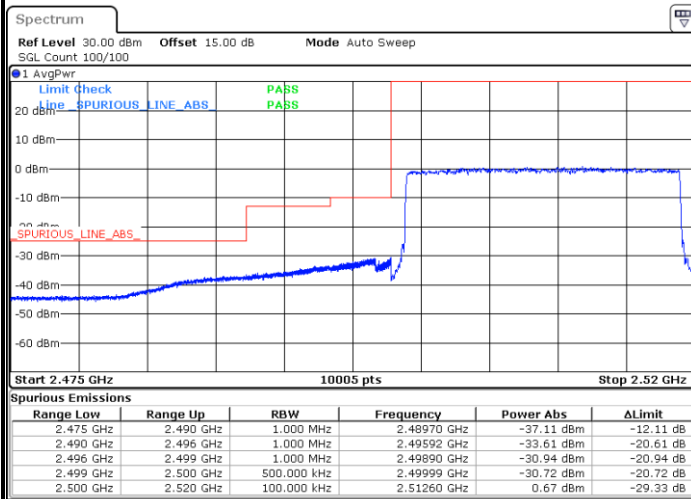
Lowest Band Edge / 1 RB



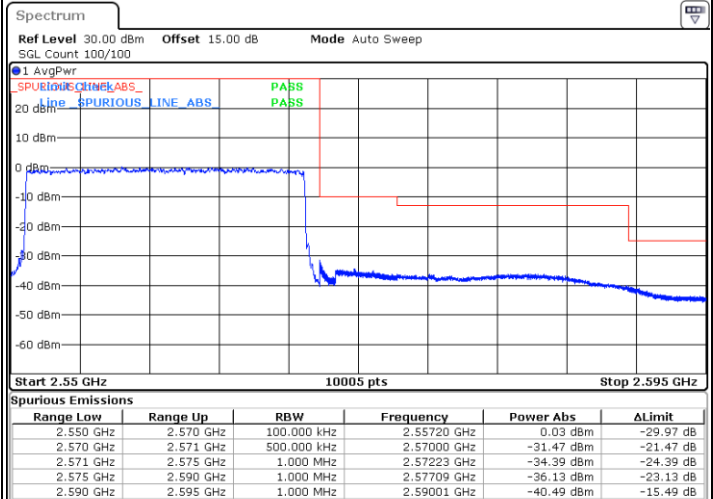
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



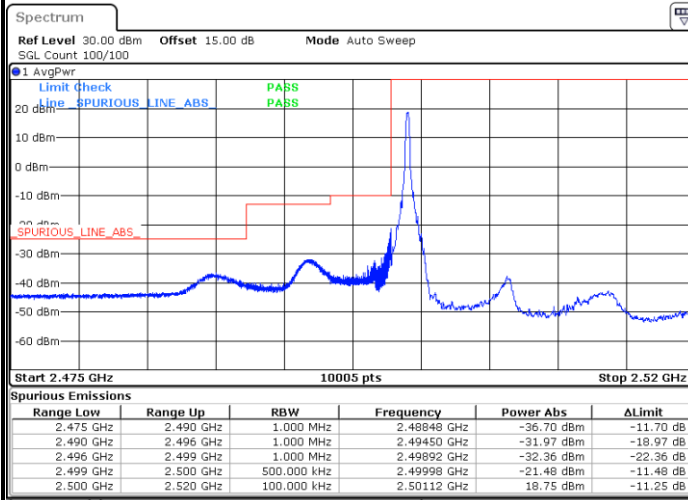
Highest Band Edge / Full RB



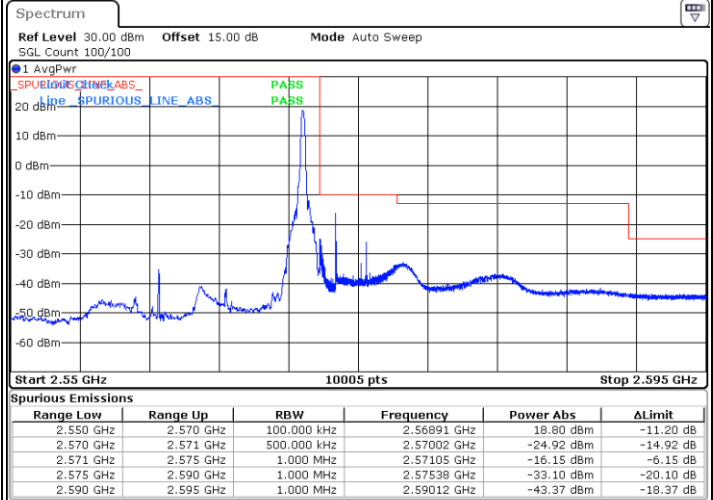


LTE Band 7 / 20MHz / 16QAM

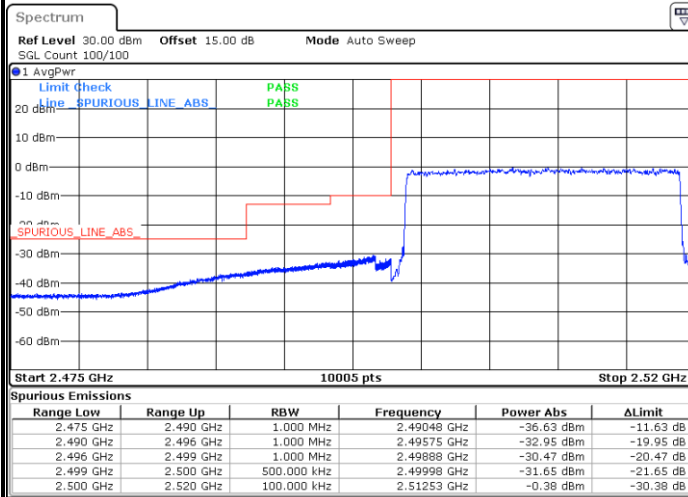
Lowest Band Edge / 1 RB



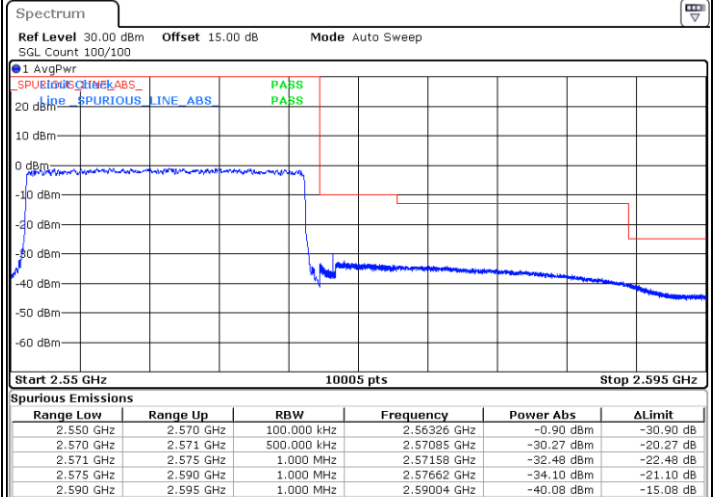
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



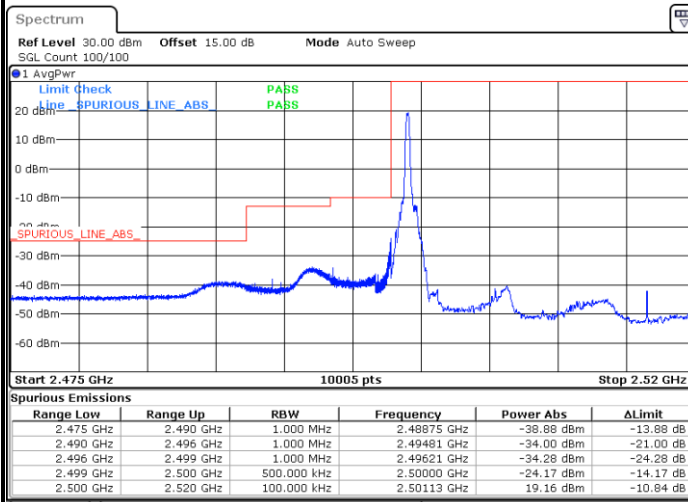
Highest Band Edge / Full RB



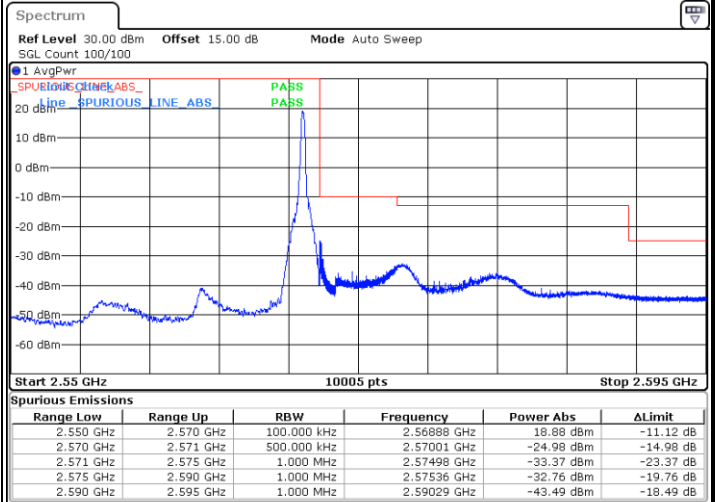


LTE Band 7 / 20MHz / 64QAM

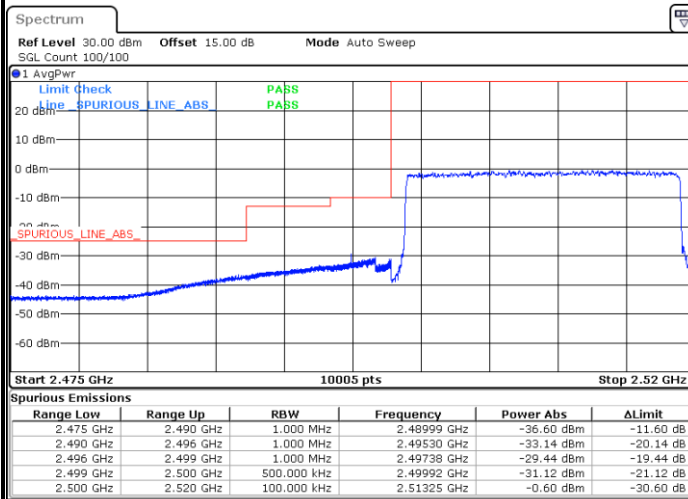
Lowest Band Edge / 1 RB



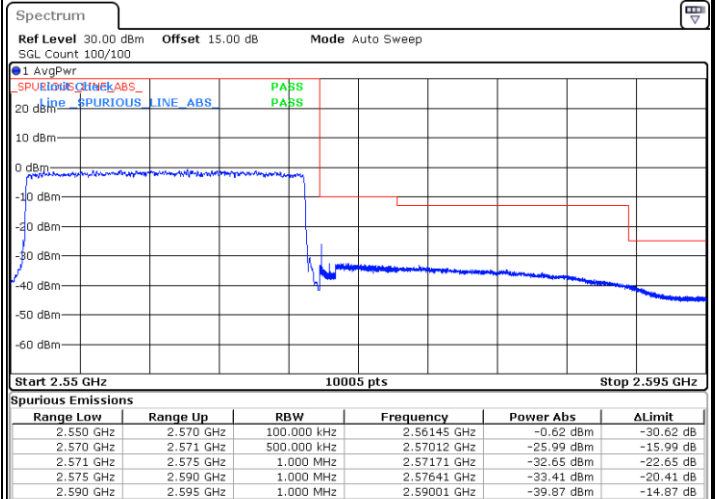
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB

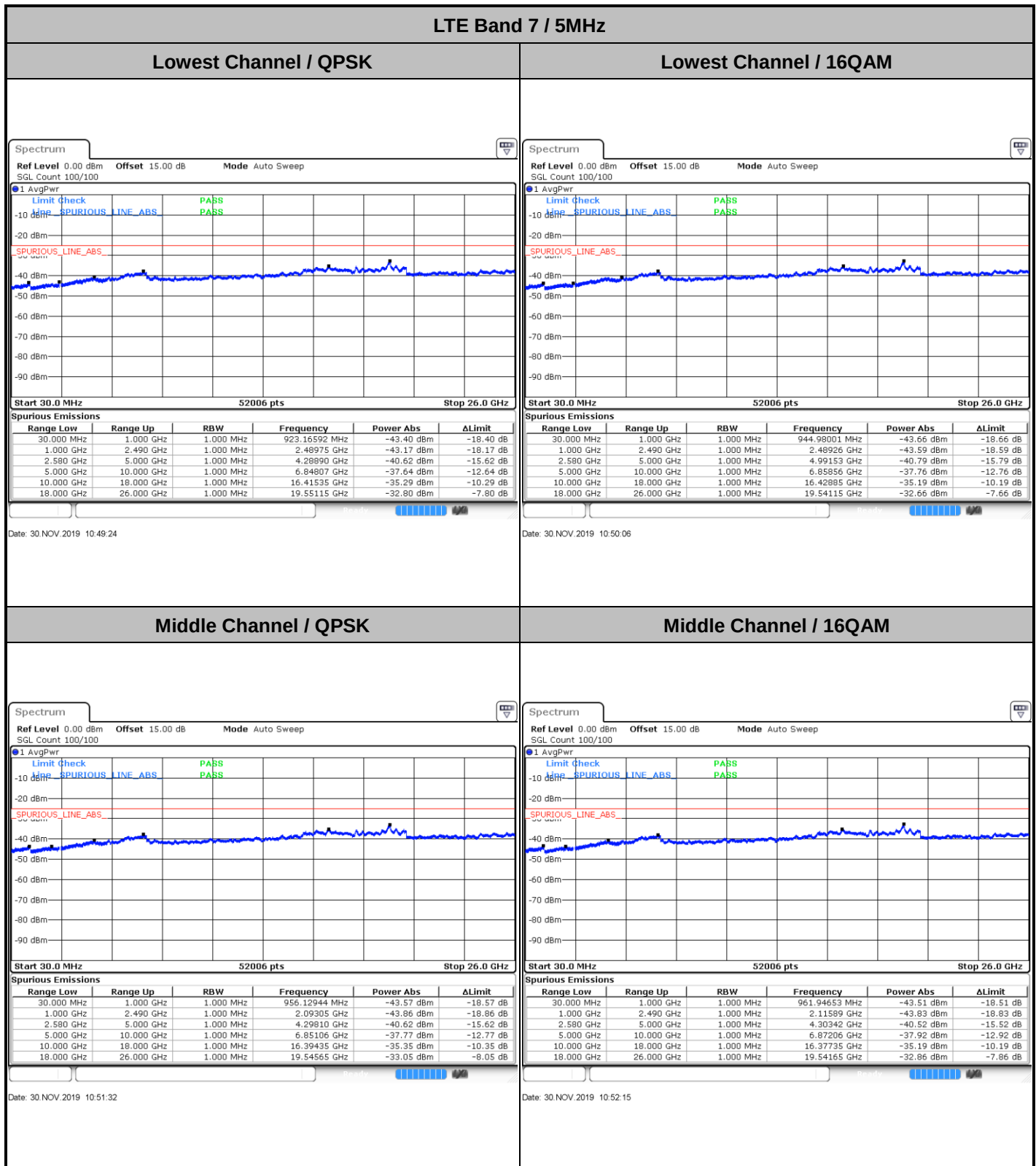


Highest Band Edge / Full RB





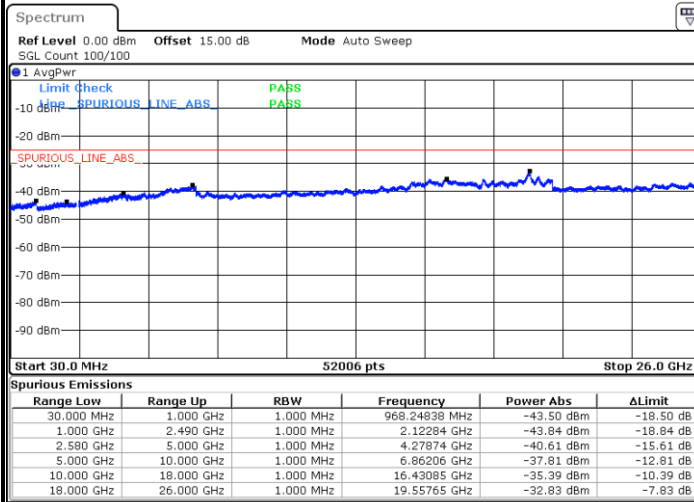
Conducted Spurious Emission





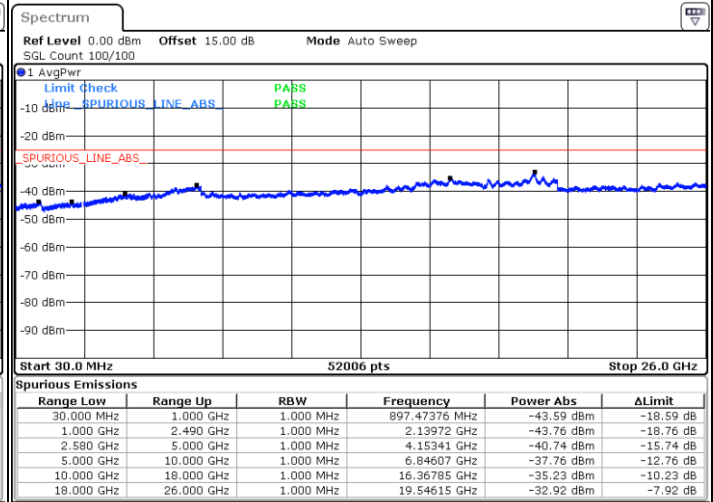
LTE Band 7 / 5MHz

Highest Channel / QPSK



Date: 30 NOV 2019 10:57:38

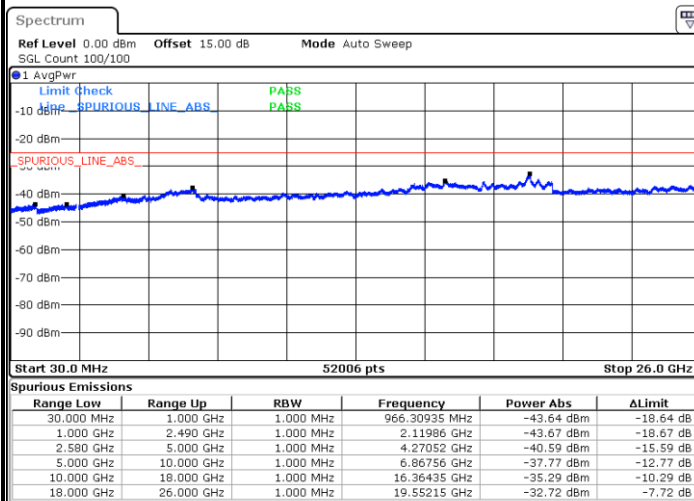
Highest Channel / 16QAM



Date: 30 NOV 2019 10:58:21

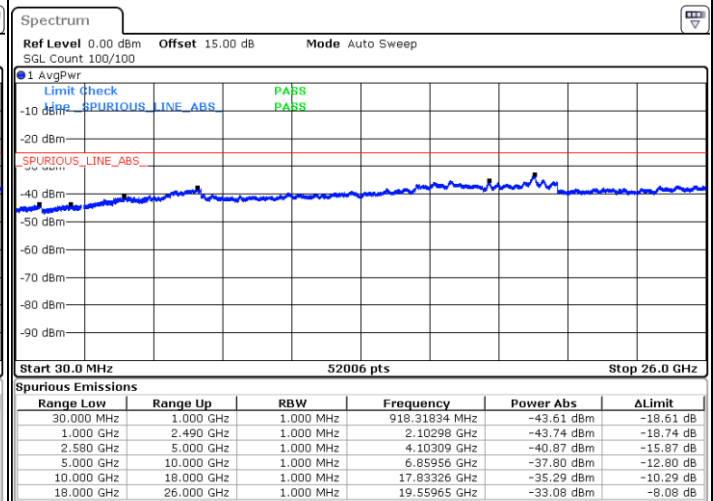
LTE Band 7 / 10MHz

Lowest Channel / QPSK



Date: 30 NOV 2019 11:03:44

Lowest Channel / 16QAM

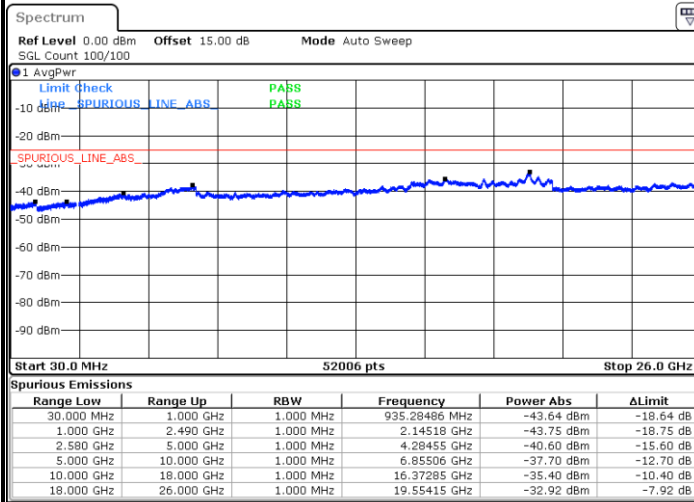


Date: 30 NOV 2019 11:04:27



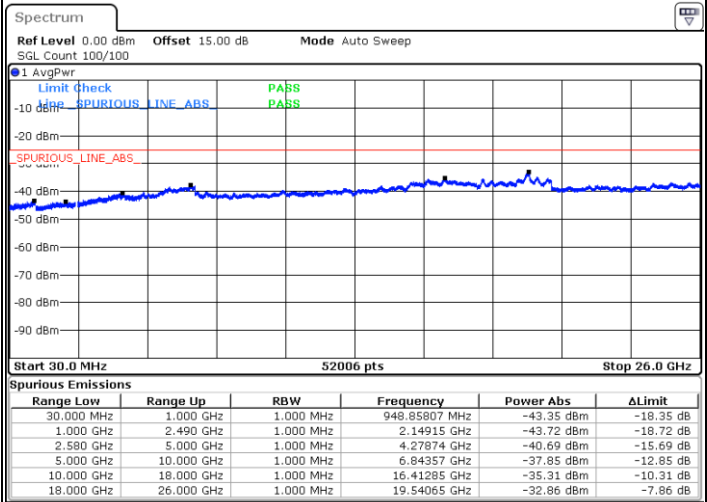
LTE Band 7 / 10MHz

Middle Channel / QPSK



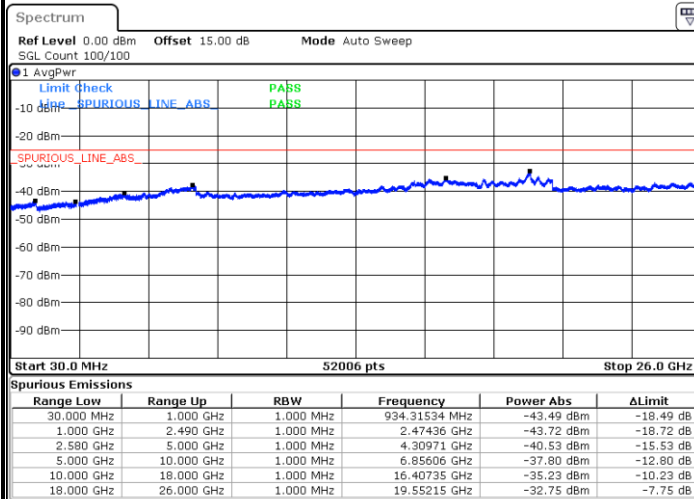
Date: 30 NOV 2019 11:05:53

Middle Channel / 16QAM



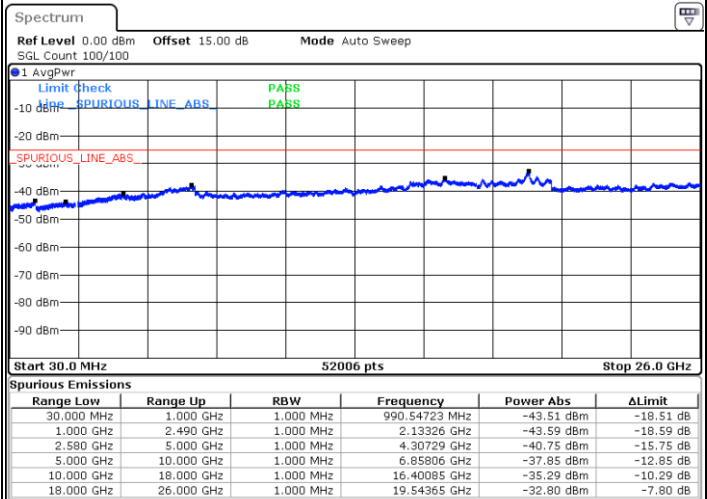
Date: 30 NOV 2019 11:06:35

Highest Channel / QPSK



Date: 30 NOV 2019 11:11:58

Highest Channel / 16QAM

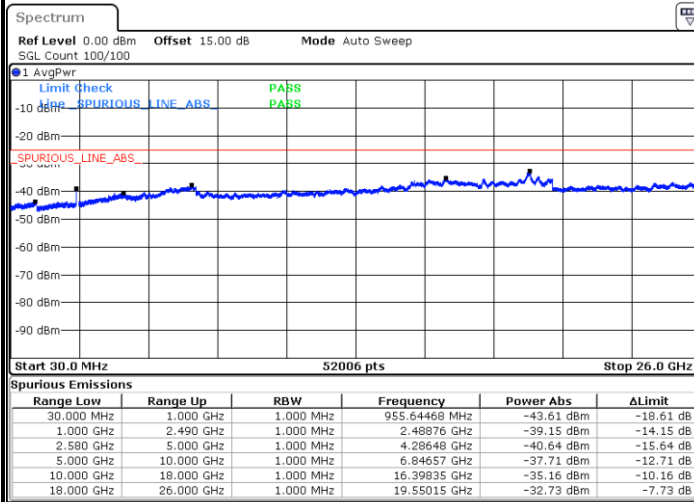


Date: 30 NOV 2019 11:12:41



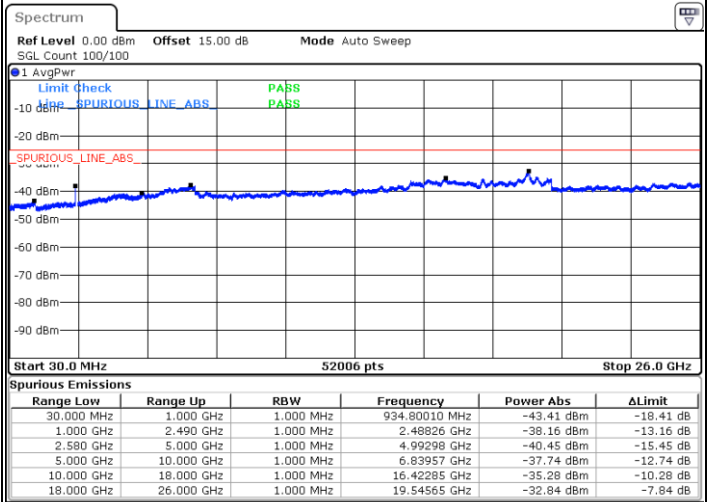
LTE Band 7 / 15MHz

Lowest Channel / QPSK



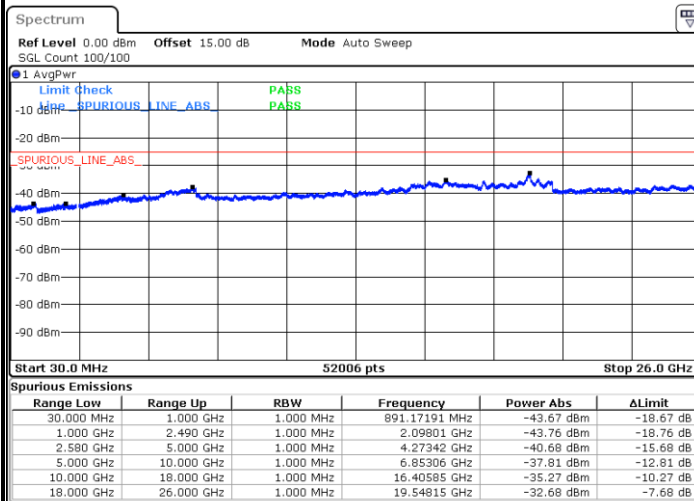
Date: 30 NOV 2019 11:18:06

Lowest Channel / 16QAM



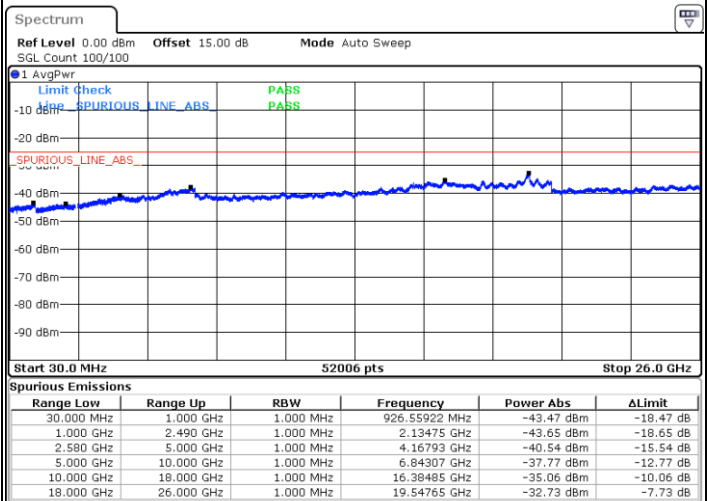
Date: 30 NOV 2019 11:18:49

Middle Channel / QPSK



Date: 30 NOV 2019 11:20:15

Middle Channel / 16QAM

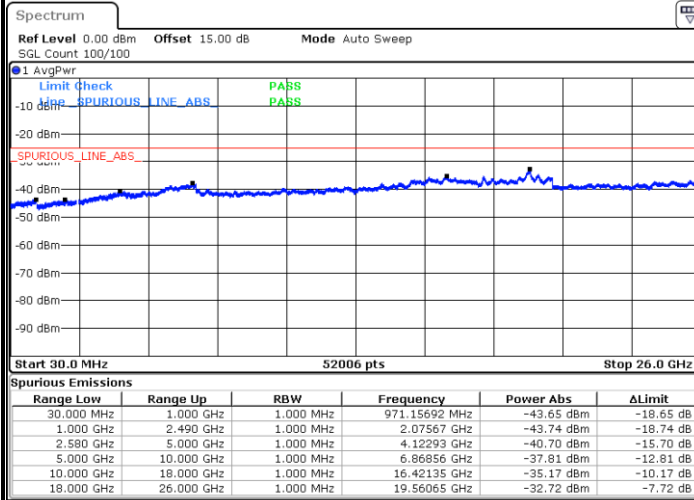


Date: 30 NOV 2019 11:20:57



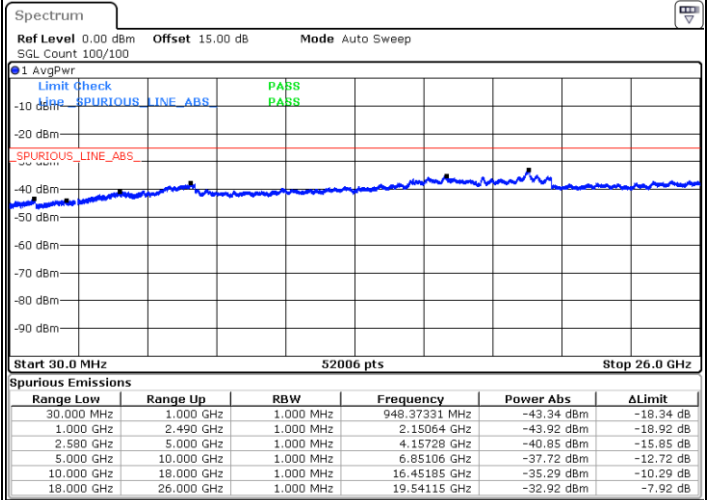
LTE Band 7 / 15MHz

Highest Channel / QPSK



Date: 30 NOV 2019 11:26:20

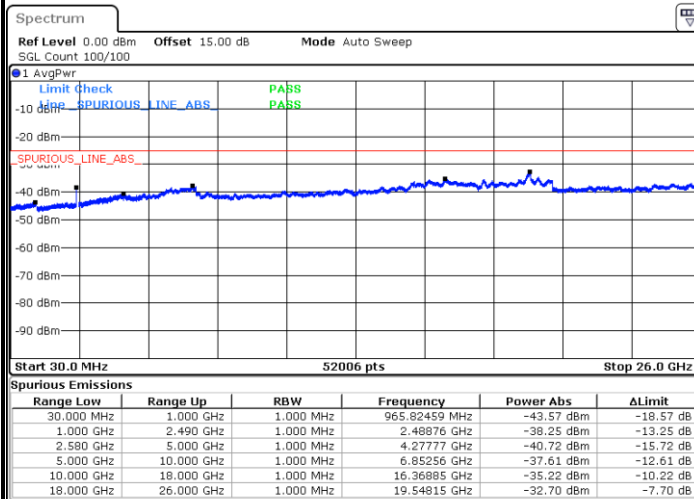
Highest Channel / 16QAM



Date: 30 NOV 2019 11:27:03

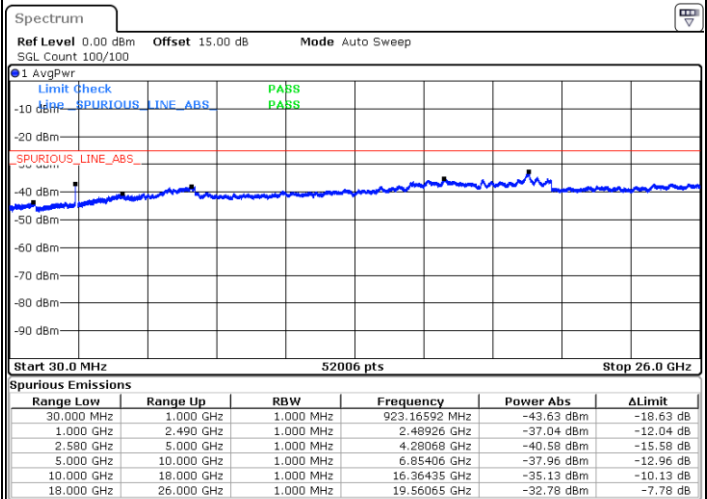
LTE Band 7 / 20MHz

Lowest Channel / QPSK



Date: 30 NOV 2019 11:32:28

Lowest Channel / 16QAM

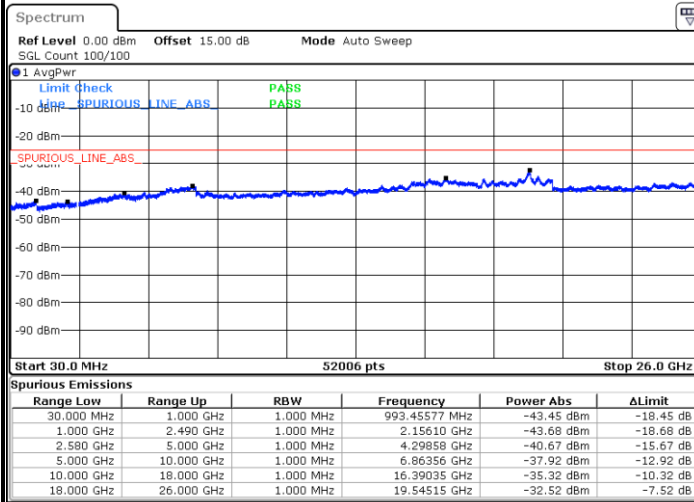


Date: 30 NOV 2019 11:33:10



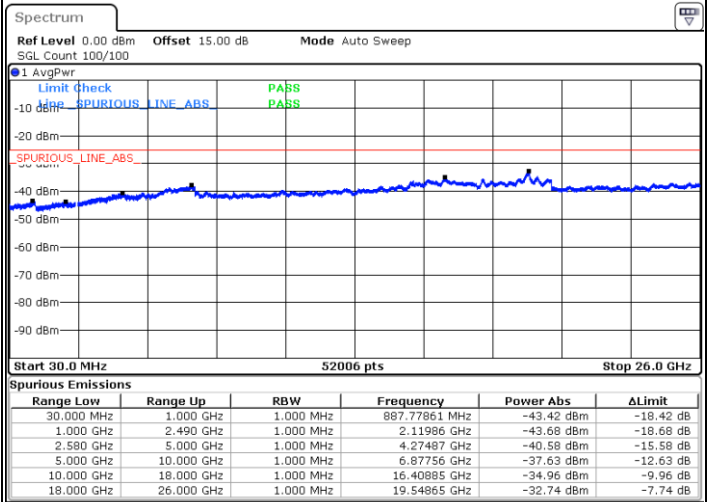
LTE Band 7 / 20MHz

Middle Channel / QPSK



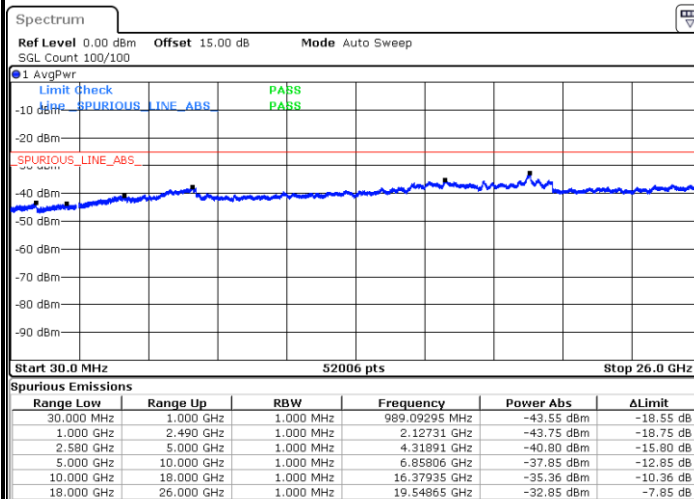
Date: 30 NOV 2019 11:34:36

Middle Channel / 16QAM



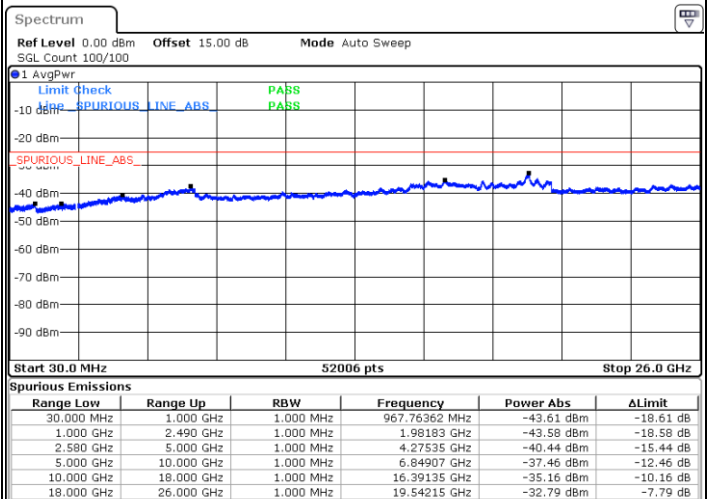
Date: 30 NOV 2019 11:35:19

Highest Channel / QPSK



Date: 30 NOV 2019 11:40:42

Highest Channel / 16QAM

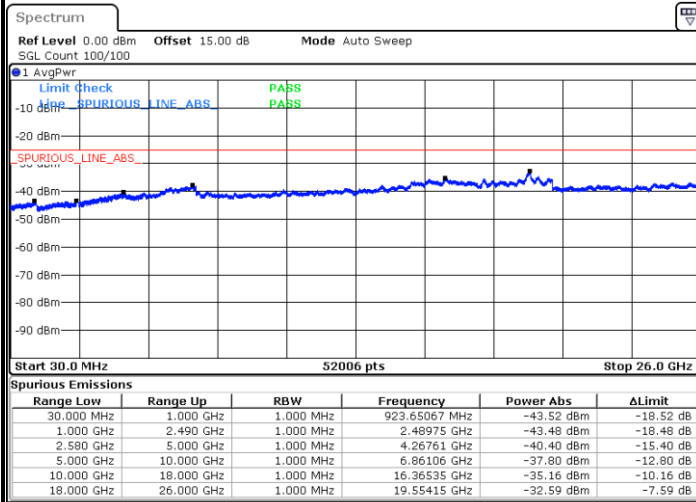


Date: 30 NOV 2019 11:41:25



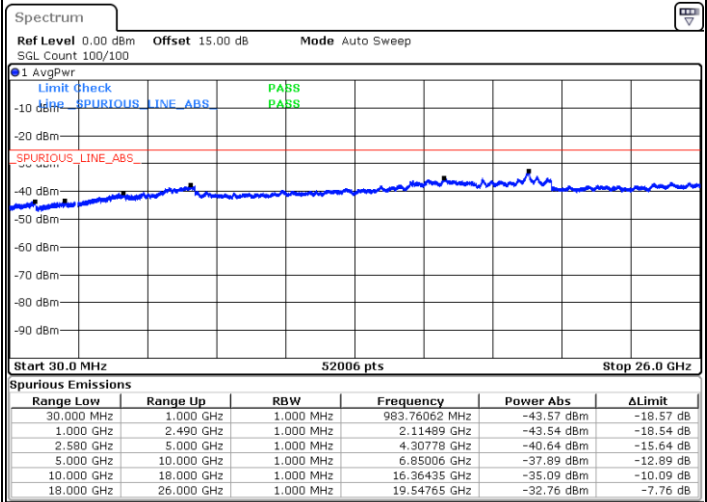
LTE Band 7 / 5MHz

Lowest Channel / 64QAM



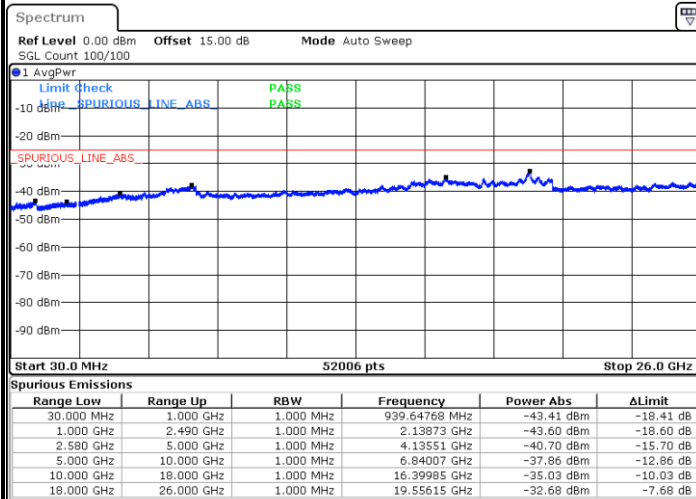
Date: 30 NOV 2019 10:15:47

Middle Channel / 64QAM



Date: 30 NOV 2019 10:16:52

Highest Channel / 64QAM

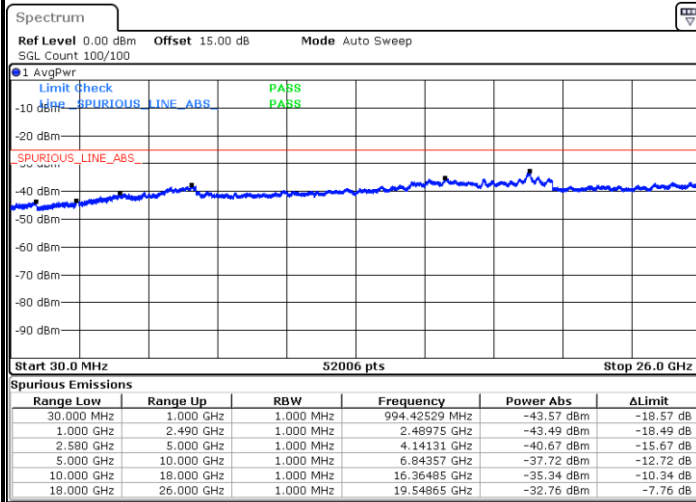


Date: 30 NOV 2019 10:19:55



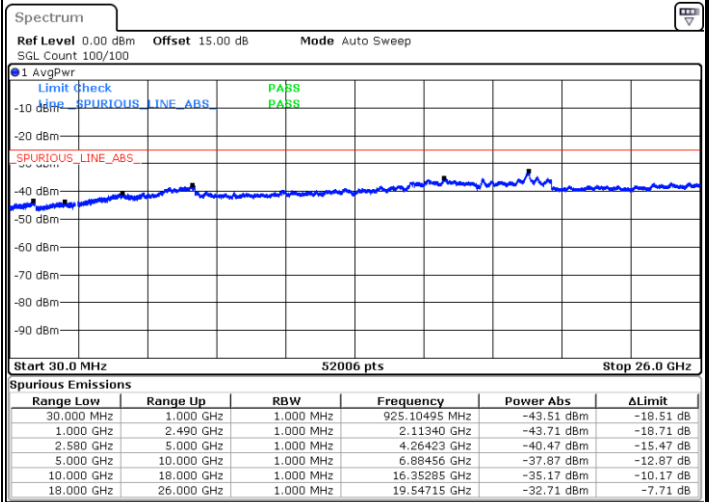
LTE Band 7 / 10MHz

Lowest Channel / 64QAM



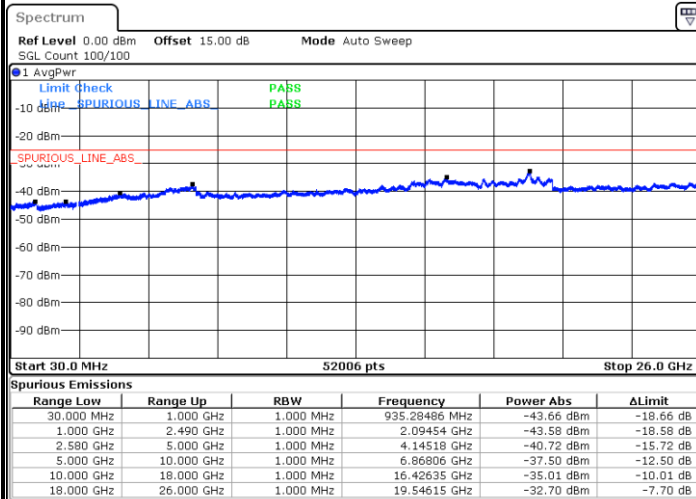
Date: 30 NOV 2019 10:22:58

Middle Channel / 64QAM



Date: 30 NOV 2019 10:24:03

Highest Channel / 64QAM

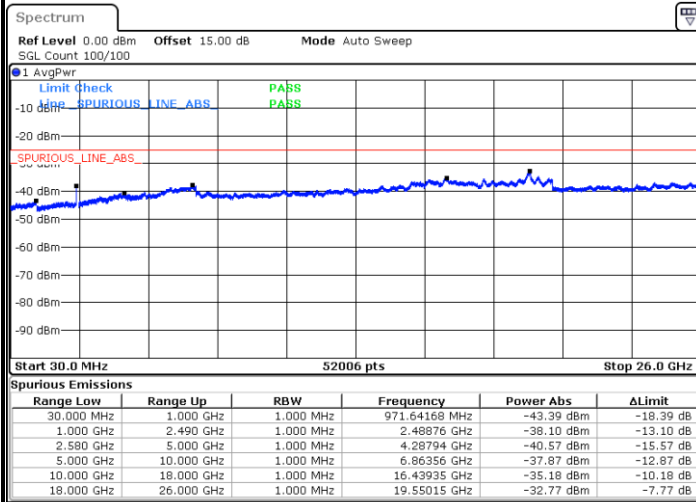


Date: 30 NOV 2019 10:27:06



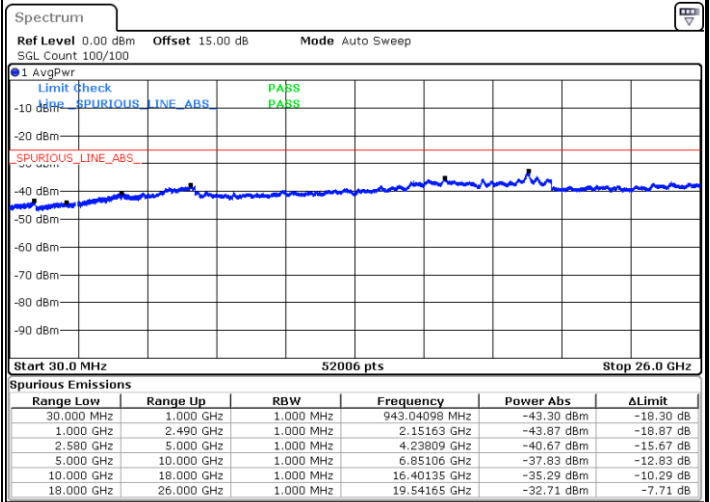
LTE Band 7 / 15MHz

Lowest Channel / 64QAM



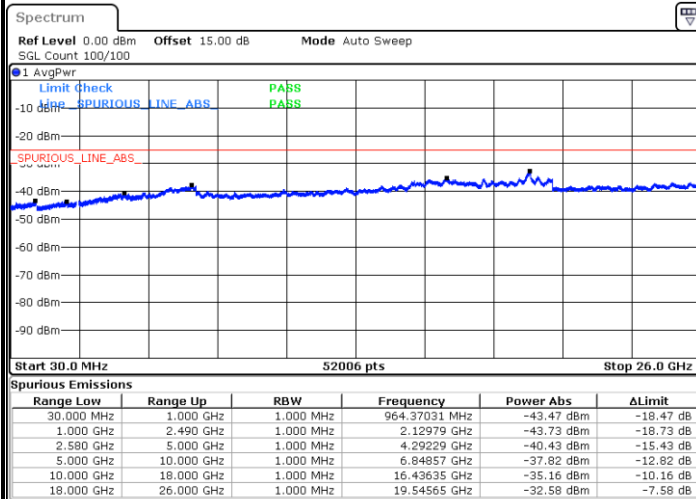
Date: 30 NOV 2019 10:30:10

Middle Channel / 64QAM



Date: 30 NOV 2019 10:31:15

Highest Channel / 64QAM

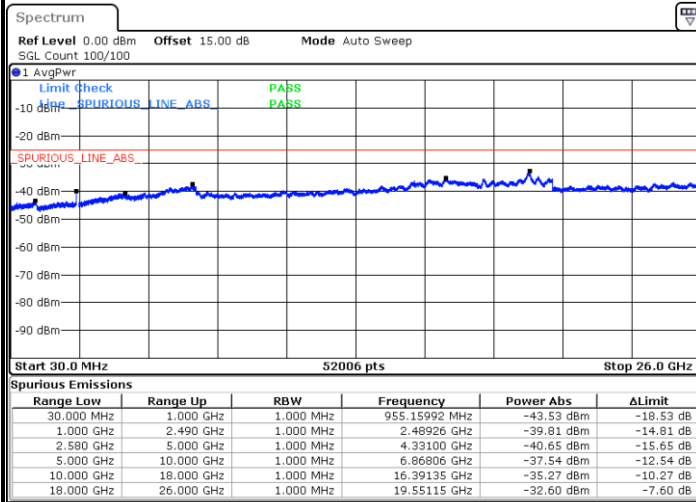


Date: 30 NOV 2019 10:34:18



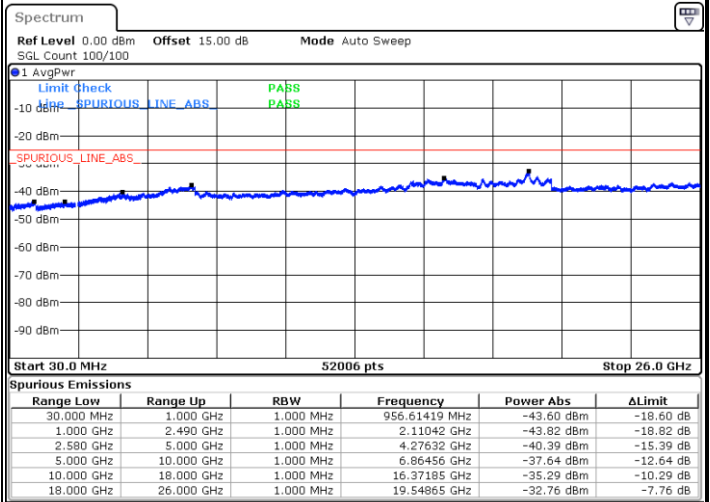
LTE Band 7 / 20MHz

Lowest Channel / 64QAM



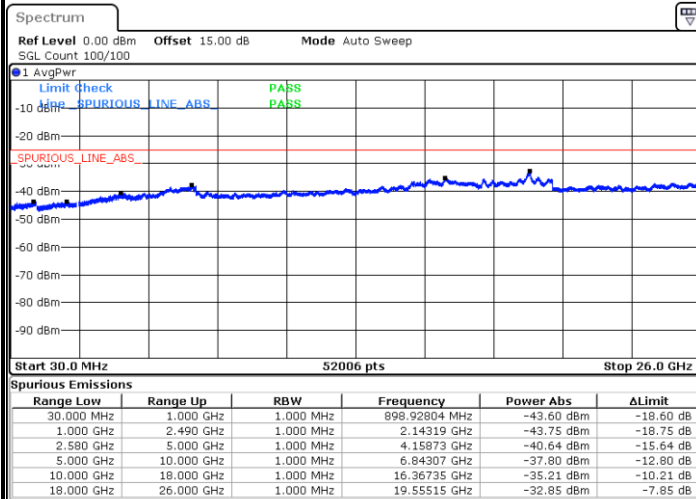
Date: 30 NOV 2019 10:37:22

Middle Channel / 64QAM



Date: 30 NOV 2019 10:38:27

Highest Channel / 64QAM



Date: 30 NOV 2019 10:41:29

**Frequency Stability**

Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0033	PASS
40	Normal Voltage	0.0007	
30	Normal Voltage	0.0025	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0038	
0	Normal Voltage	0.0075	
-10	Normal Voltage	0.0002	
-20	Normal Voltage	0.0048	
-30	Normal Voltage	0.0018	
20	Maximum Voltage	0.0038	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0036	

Note:

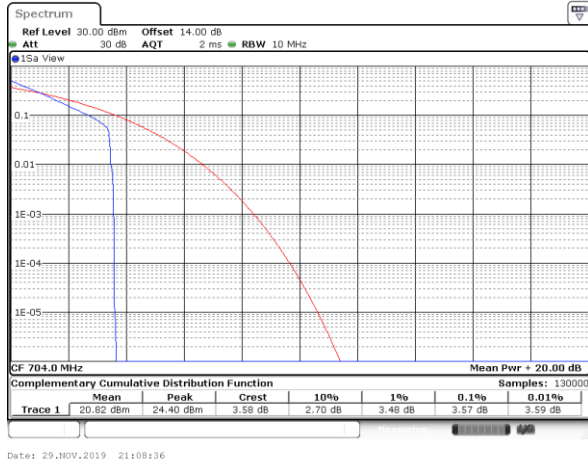
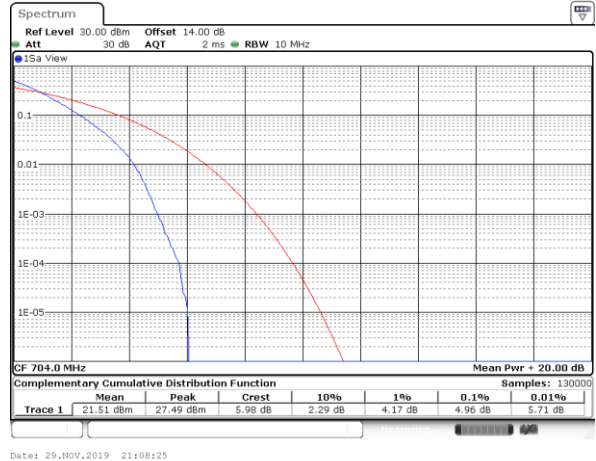
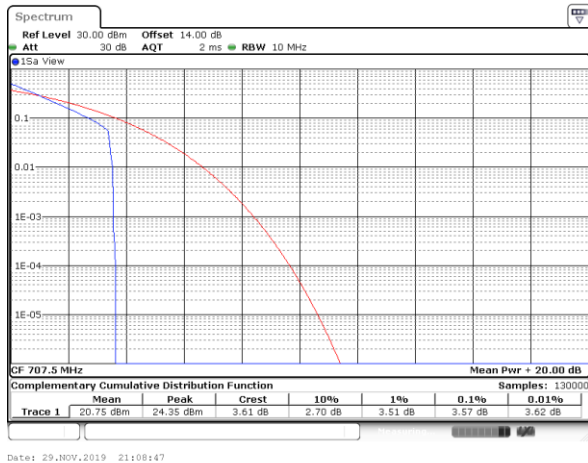
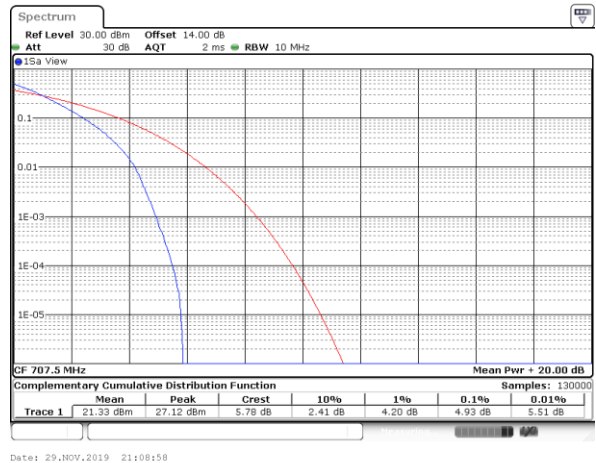
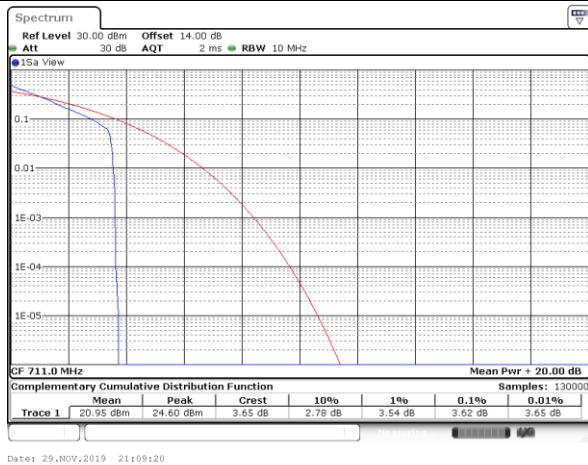
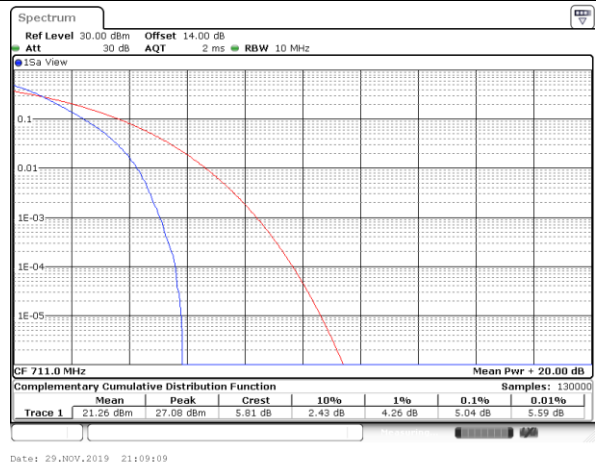
1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.45 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

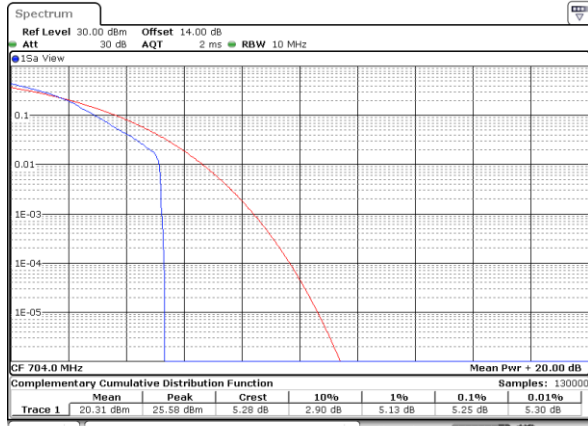


LTE Band 12

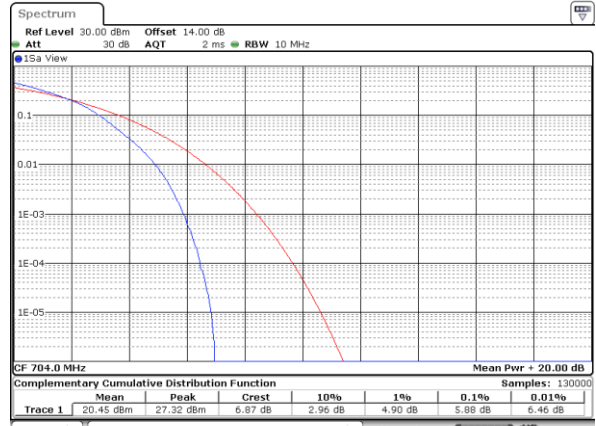
Peak-to-Average Ratio

Mode	LTE Band 12 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.57	4.96	5.25	5.88	PASS
Middle CH	3.57	4.93	5.10	5.80	
Highest CH	3.62	5.04	5.16	5.91	
Mode	LTE Band 12 / 10MHz				
Mod.	64QAM		-		Limit: 13dB
RB Size	1RB	Full RB	-	-	Result
Lowest CH	5.19	5.88	-	-	PASS
Middle CH	5.39	5.83	-	-	
Highest CH	5.30	5.88	-	-	

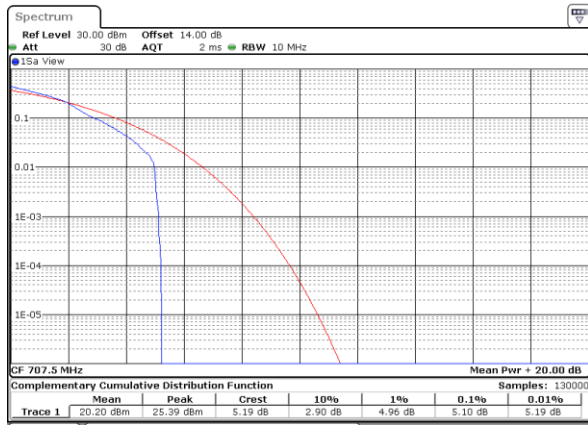
LTE Band 12 / 10MHz / QPSK
Lowest Channel / 1RB

Lowest Channel / Full RB

Middle Channel / 1RB

Middle Channel / Full RB

Highest Channel / 1RB

Highest Channel / Full RB


LTE Band 12 / 10MHz / 16QAM
Lowest Channel / 1RB


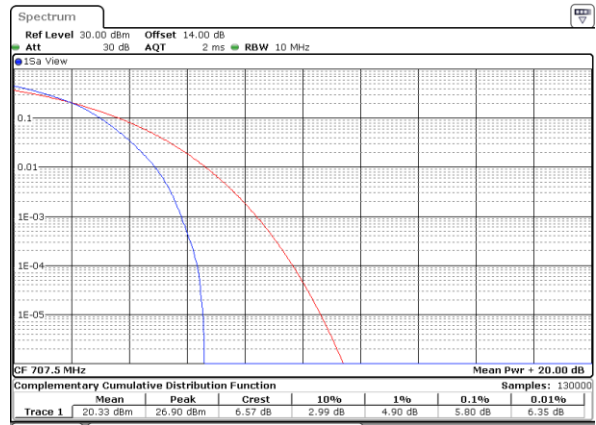
Date: 29.NOV.2019 21:07:20

Lowest Channel / Full RB


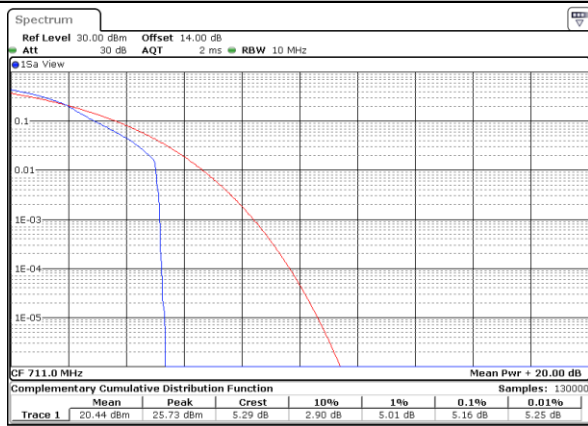
Date: 29.NOV.2019 21:07:16

Middle Channel / 1RB


Date: 29.NOV.2019 21:07:39

Middle Channel / Full RB


Date: 29.NOV.2019 21:07:50

Highest Channel / 1RB


Date: 29.NOV.2019 21:08:14

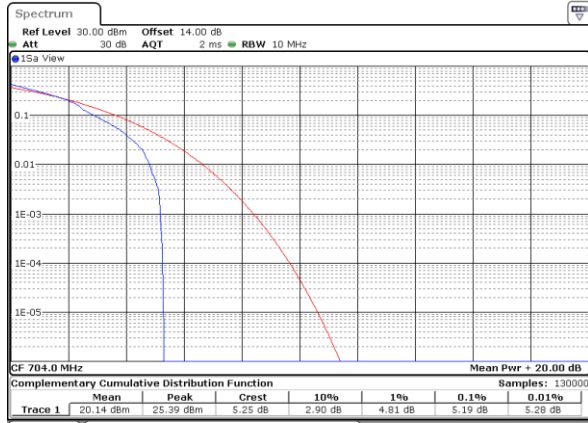
Highest Channel / Full RB


Date: 29.NOV.2019 21:08:02

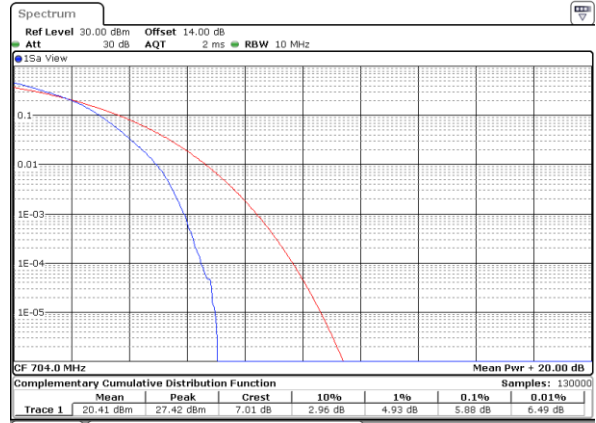


LTE Band 12 / 10MHz / 64QAM

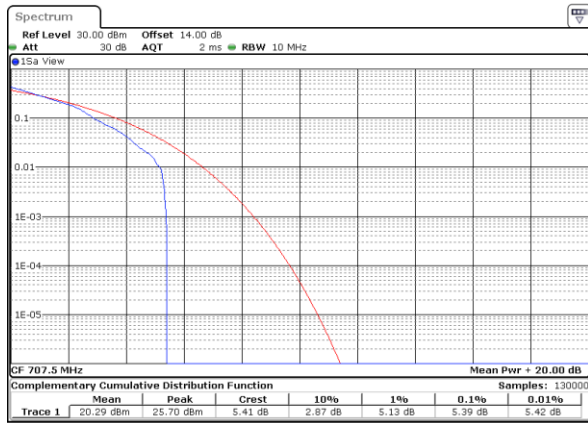
Lowest Channel / 1RB



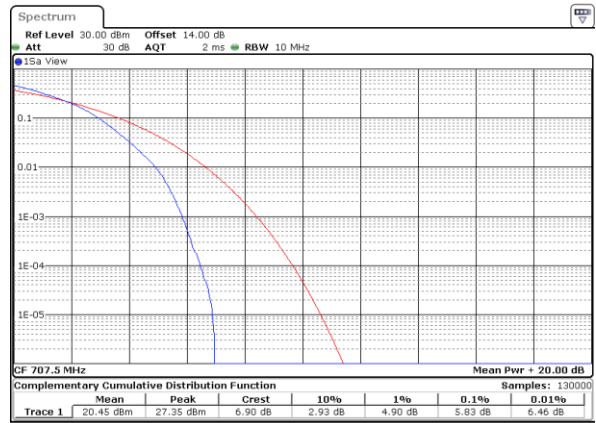
Lowest Channel / Full RB



Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB



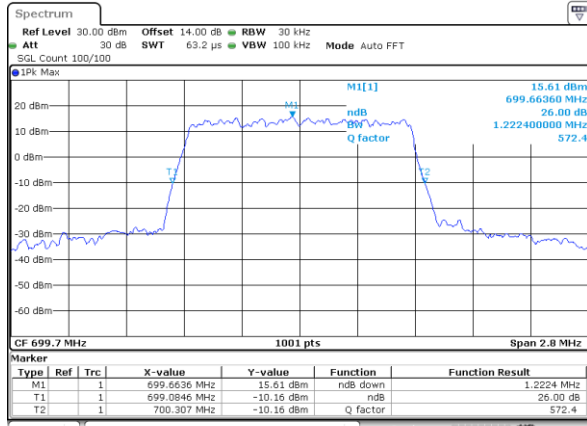
**26dB Bandwidth**

Mode	LTE Band 12 : 26dB BW(MHz)							
BW	1.4MHz		3MHz		5MHz		10MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.222	1.228	2.973	2.997	4.905	4.915	9.77	9.77
Middle CH	1.222	1.231	3.063	2.997	4.845	4.875	9.89	9.75
Highest CH	1.222	1.222	2.985	2.991	4.875	4.875	9.73	9.83
Mode	LTE Band 12 : 26dB BW(MHz)							
BW	1.4MHz		3MHz		5MHz		10MHz	
Mod.	64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.234		3.009		4.895		9.93	
Middle CH	1.234		3.003		4.925		9.77	
Highest CH	1.228		3.021		4.855		9.87	



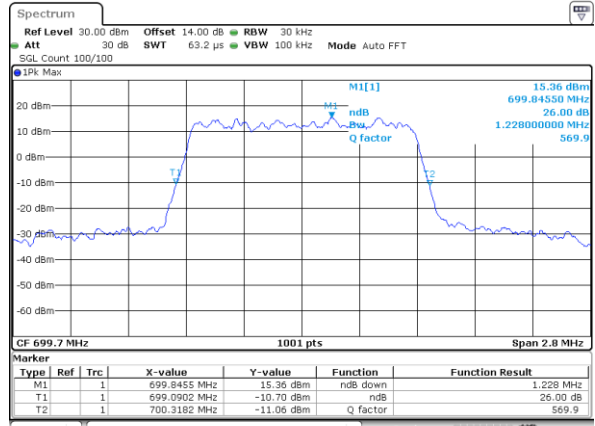
LTE Band 12

Lowest Channel / 1.4MHz / QPSK



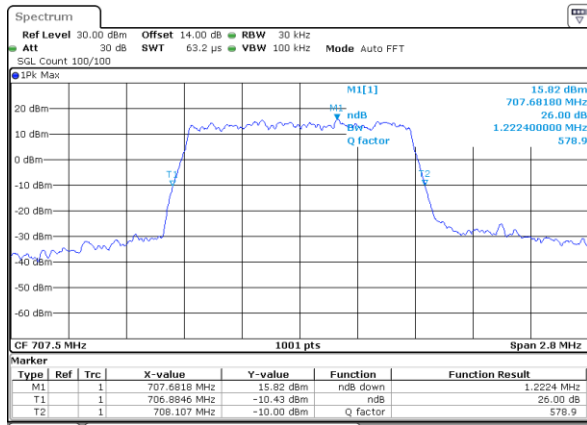
Date: 29.NOV.2019 20:45:08

Lowest Channel / 1.4MHz / 16QAM



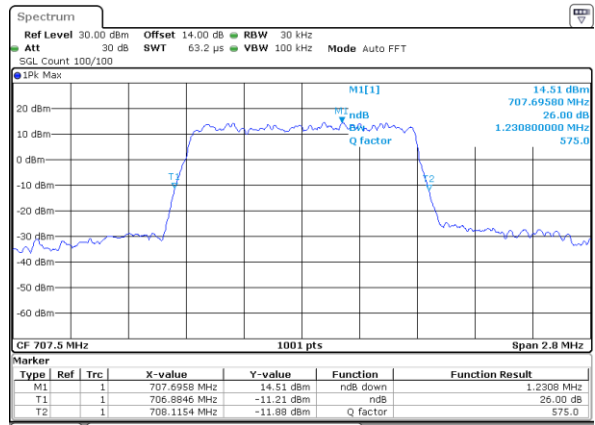
Date: 29.NOV.2019 20:44:57

Middle Channel / 1.4MHz / QPSK



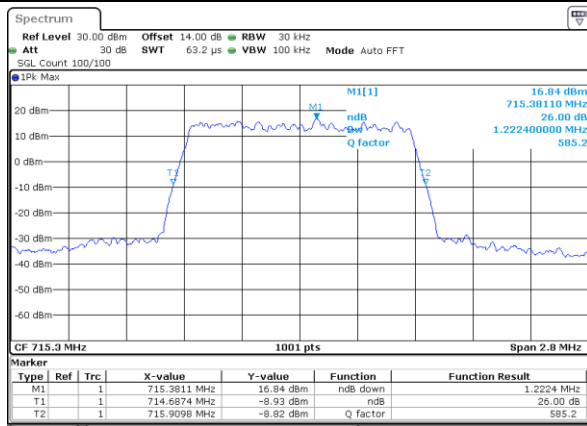
Date: 29.NOV.2019 20:51:04

Middle Channel / 1.4MHz / 16QAM



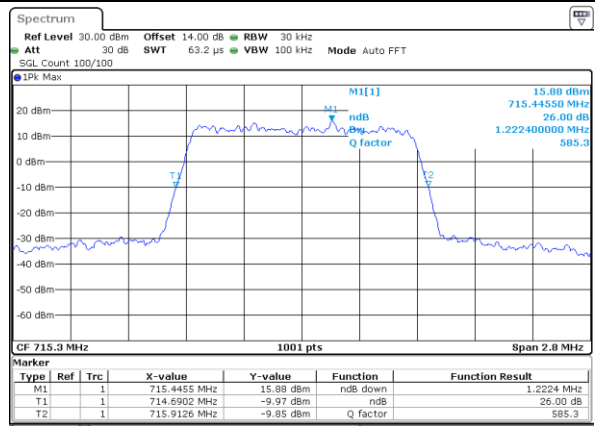
Date: 29.NOV.2019 20:51:15

Highest Channel / 1.4MHz / QPSK



Date: 29.NOV.2019 20:53:22

Highest Channel / 1.4MHz / 16QAM

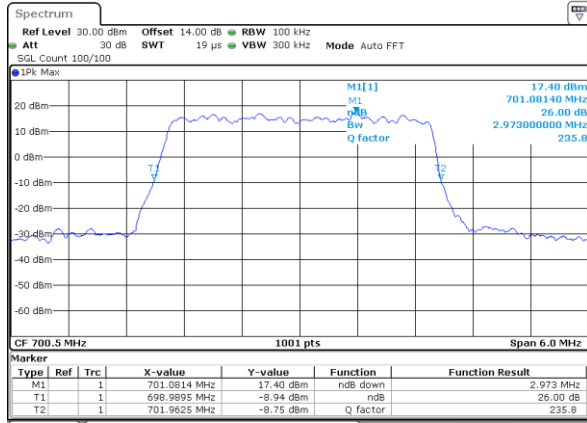


Date: 29.NOV.2019 20:53:11



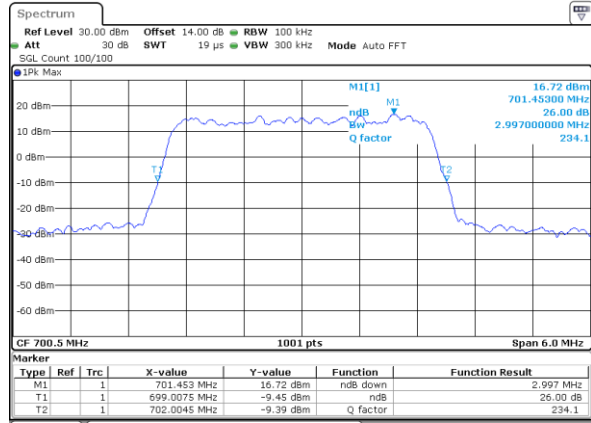
LTE Band 12

Lowest Channel / 3MHz / QPSK



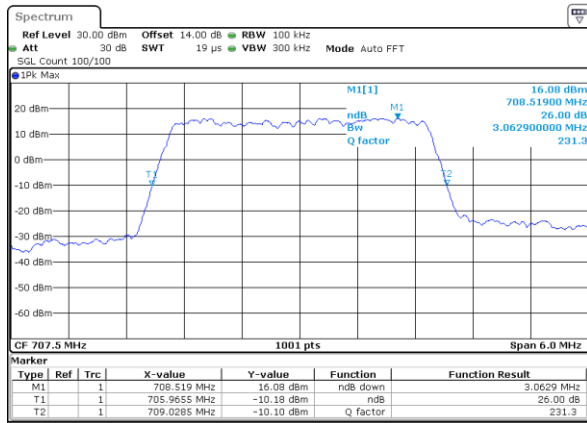
Date: 29.NOV.2019 19:36:26

Lowest Channel / 3MHz / 16QAM



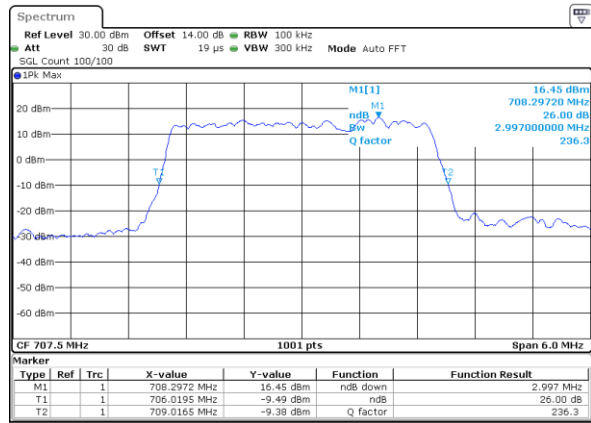
Date: 29.NOV.2019 19:36:15

Middle Channel / 3MHz / QPSK



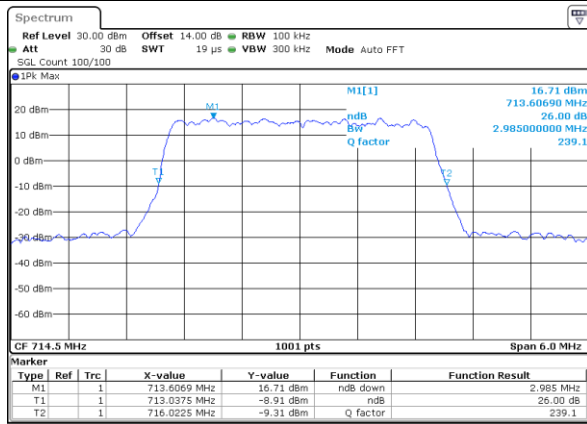
Date: 29.NOV.2019 19:42:22

Middle Channel / 3MHz / 16QAM



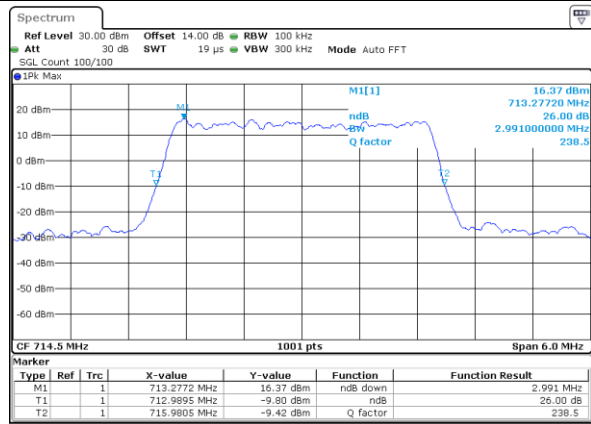
Date: 29.NOV.2019 19:42:33

Highest Channel / 3MHz / QPSK



Date: 29.NOV.2019 19:44:41

Highest Channel / 3MHz / 16QAM

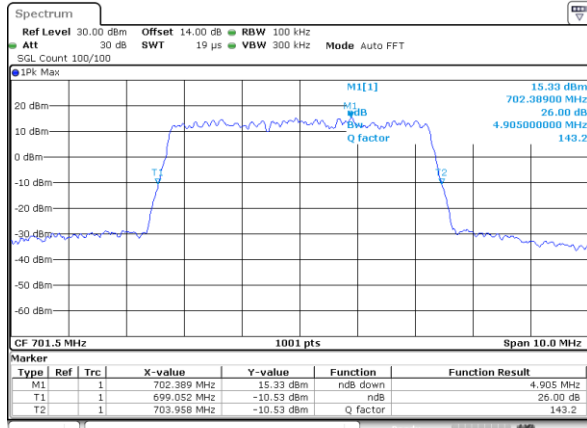


Date: 29.NOV.2019 19:44:29

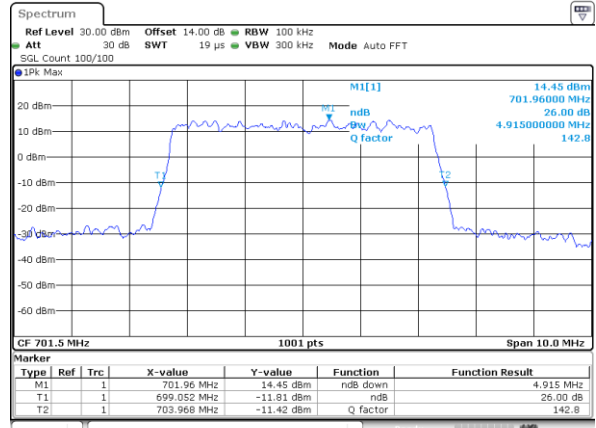


LTE Band 12

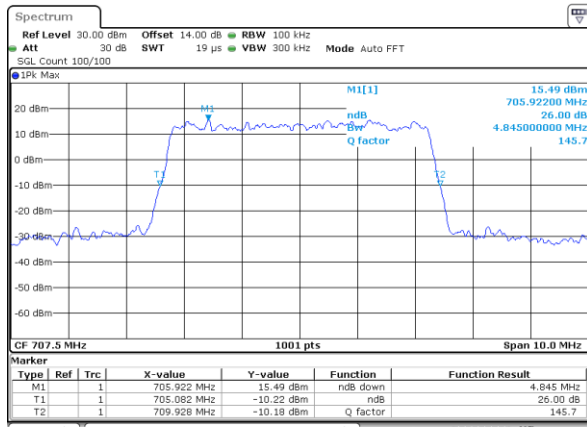
Lowest Channel / 5MHz / QPSK



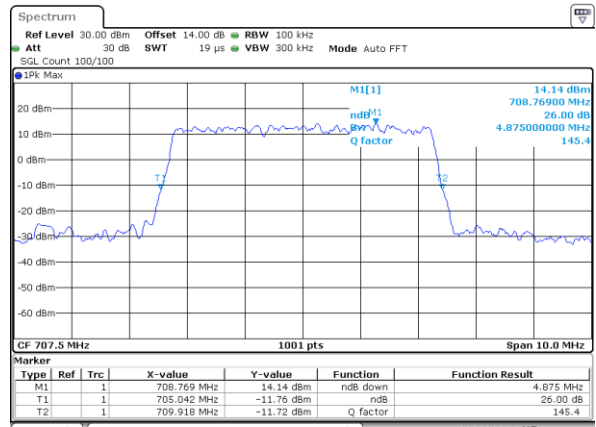
Lowest Channel / 5MHz / 16QAM



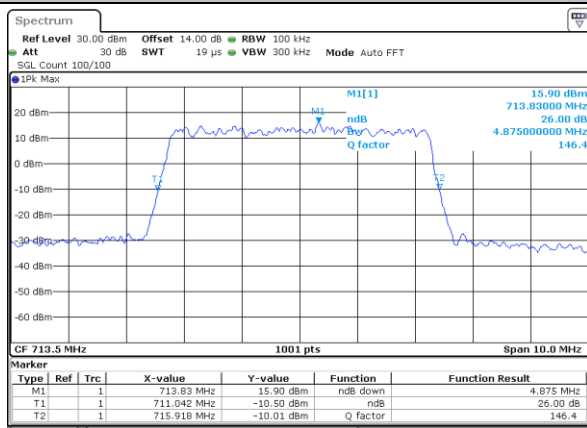
Middle Channel / 5MHz / QPSK



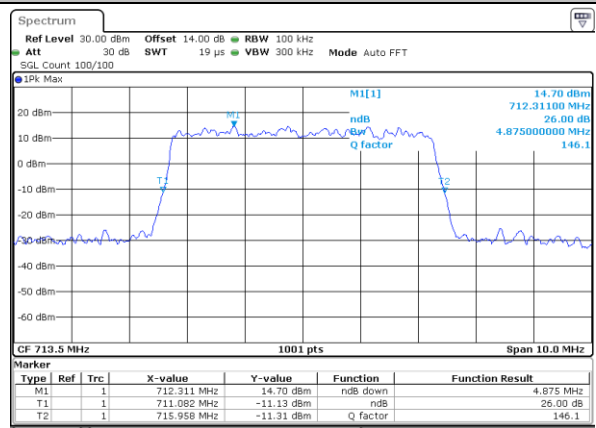
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



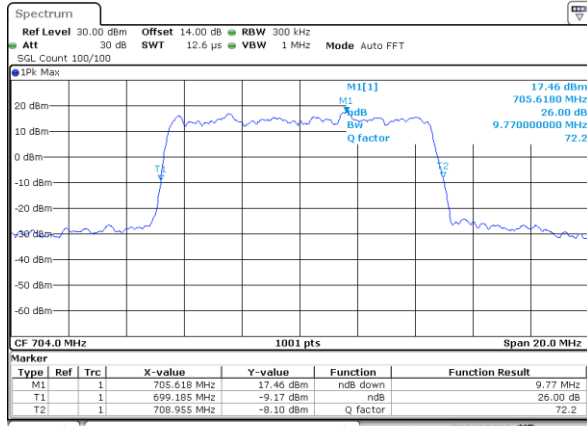
Highest Channel / 5MHz / 16QAM



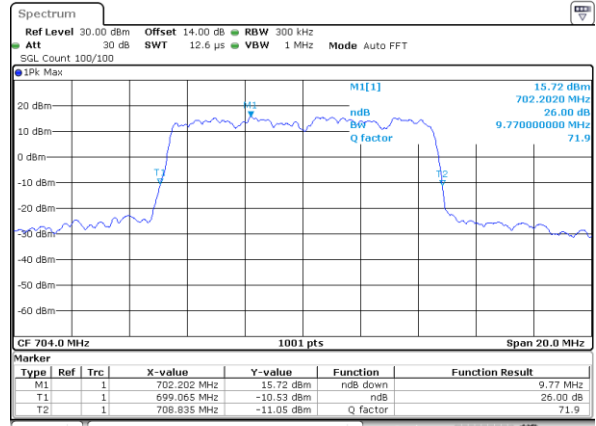


LTE Band 12

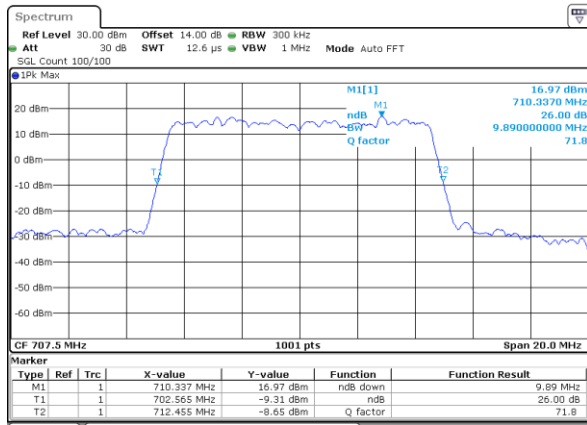
Lowest Channel / 10MHz / QPSK



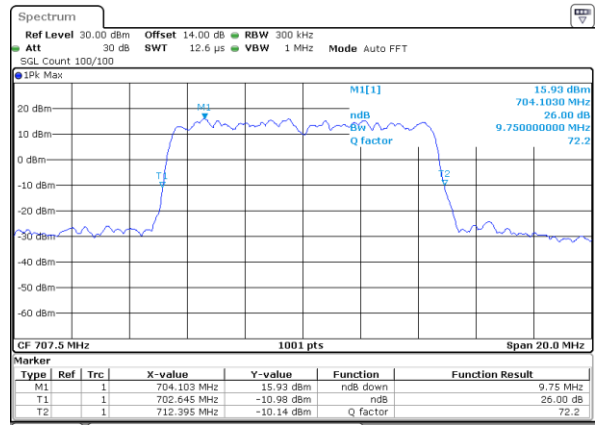
Lowest Channel / 10MHz / 16QAM



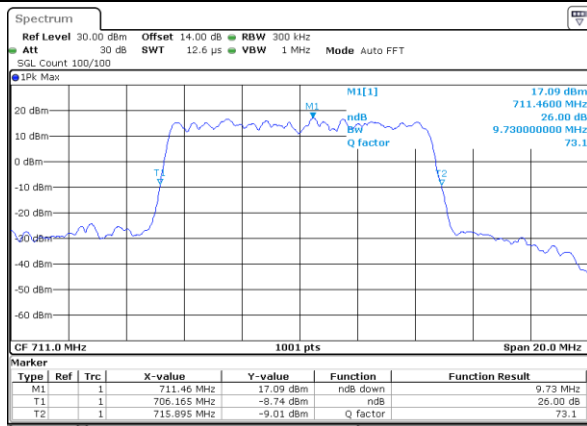
Middle Channel / 10MHz / QPSK



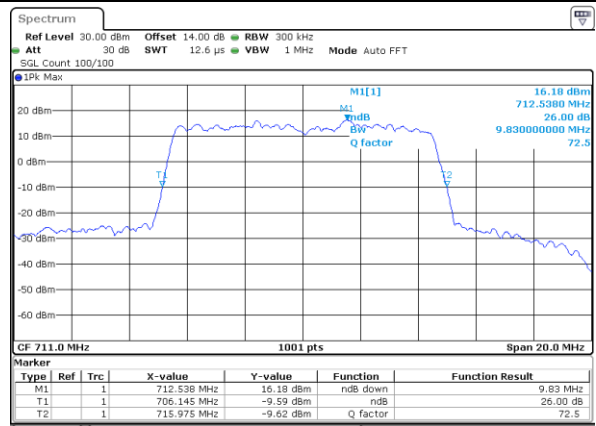
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



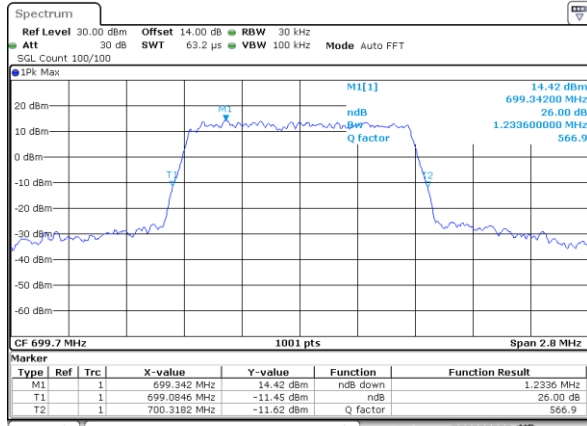
Highest Channel / 10MHz / 16QAM





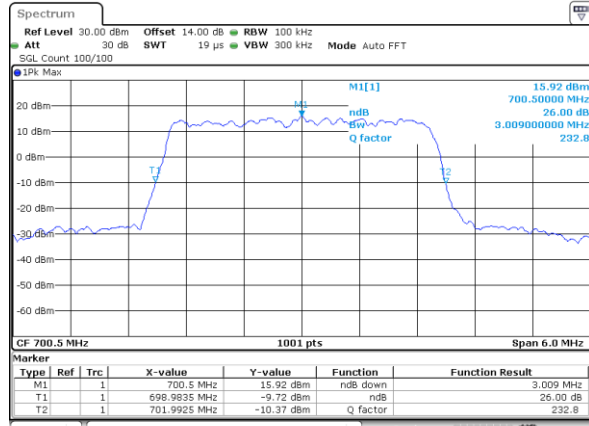
LTE Band 12

Lowest Channel / 1.4MHz / 64QAM



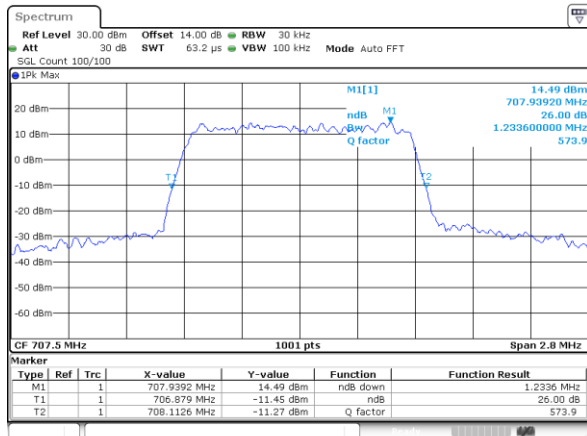
Date: 29.NOV.2019 20:59:07

Lowest Channel / 3MHz / 64QAM



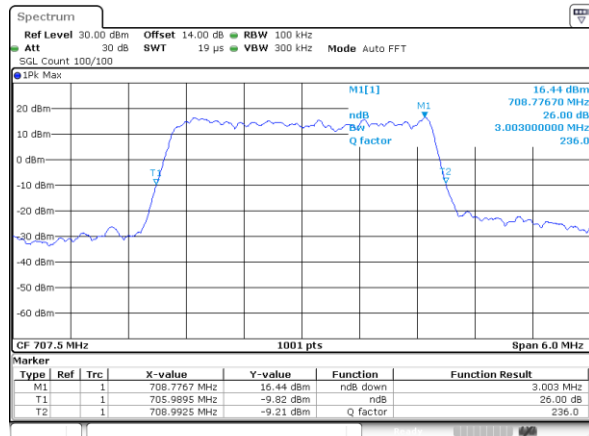
Date: 29.NOV.2019 19:50:25

Middle Channel / 1.4MHz / 64QAM



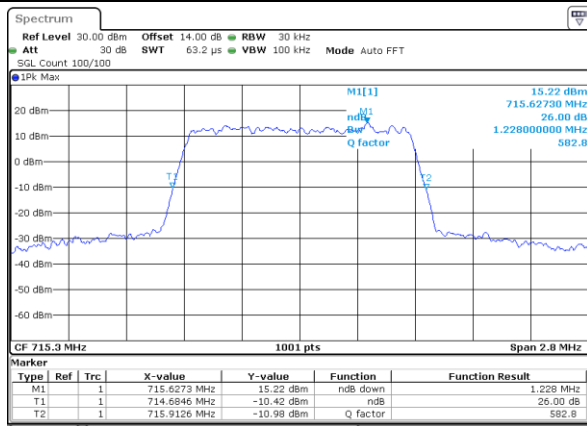
Date: 29.NOV.2019 21:02:10

Middle Channel / 3MHz / 64QAM



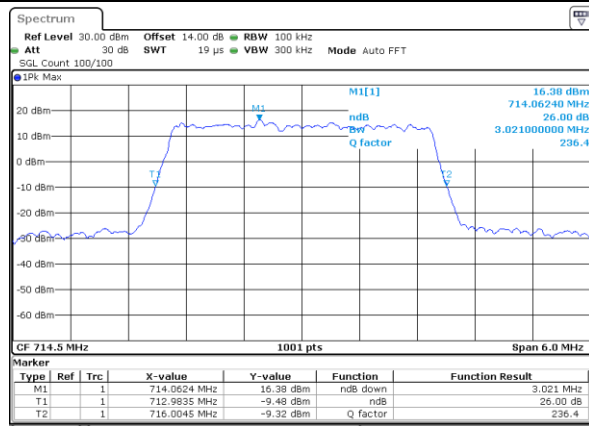
Date: 29.NOV.2019 19:53:29

Highest Channel / 1.4MHz / 64QAM



Date: 29.NOV.2019 21:03:14

Highest Channel / 3MHz / 64QAM



Date: 29.NOV.2019 19:54:33