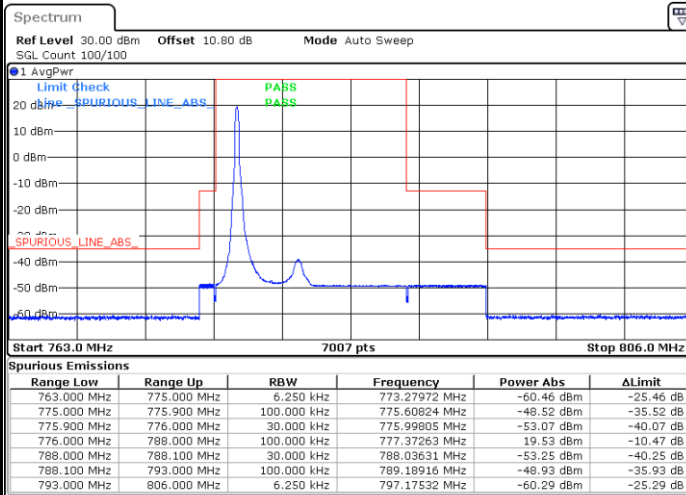
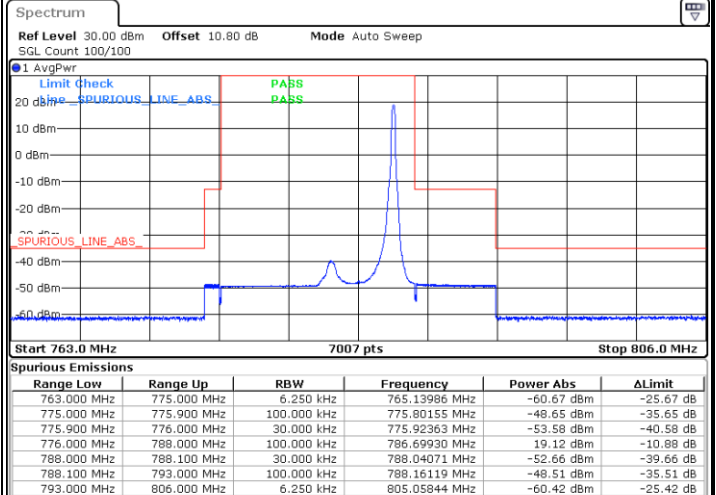
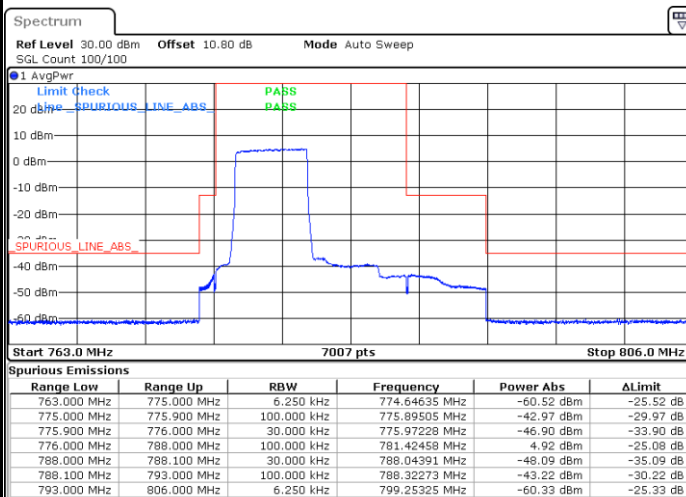


**Conducted Band Edge****LTE Band 13 / 5MHz / QPSK****Lowest Band Edge / 1 RB**

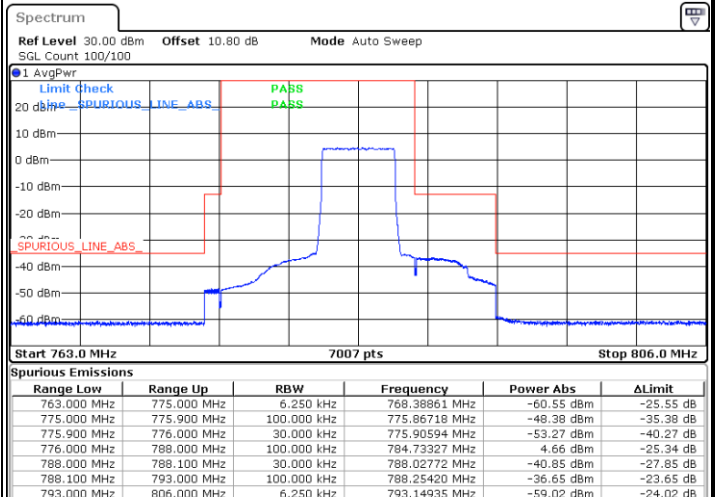
Date: 5.NOV.2019 23:49:58

Highest Band Edge / 1 RB

Date: 6.NOV.2019 00:02:07

Lowest Band Edge / Full RB

Date: 5.NOV.2019 23:45:00

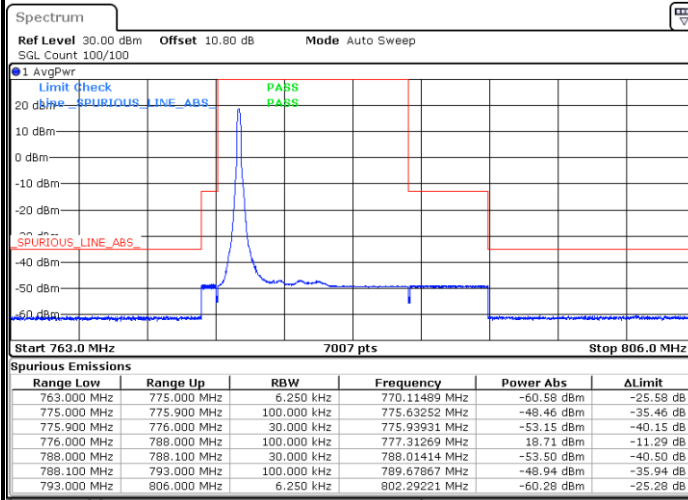
Highest Band Edge / Full RB

Date: 5.NOV.2019 23:57:10



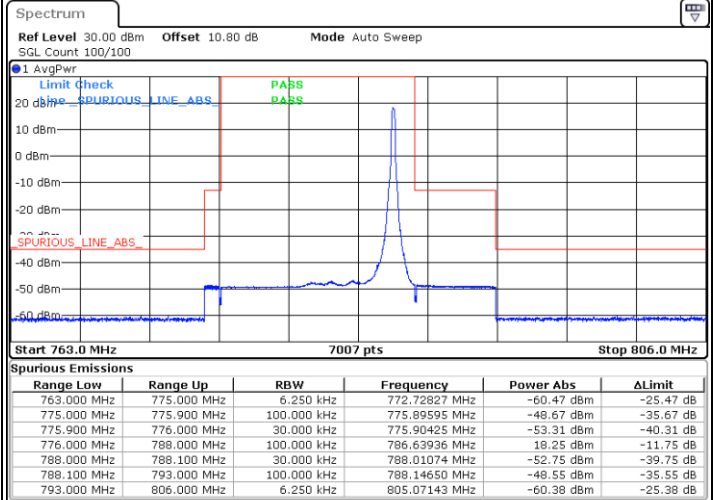
LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



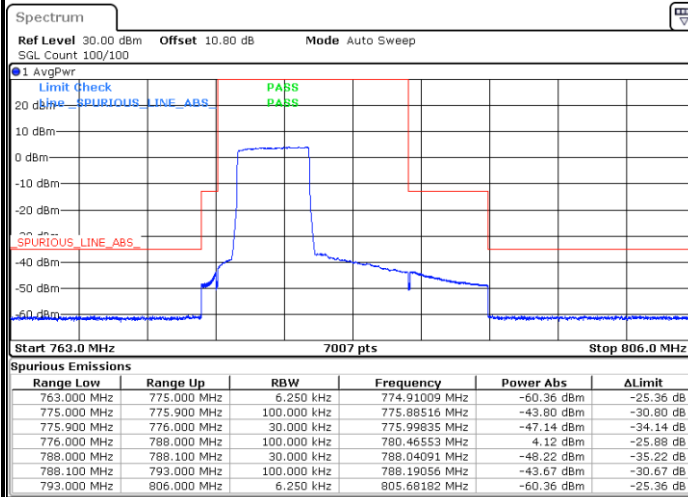
Date: 5 NOV 2019 23:48:19

Highest Band Edge / 1 RB



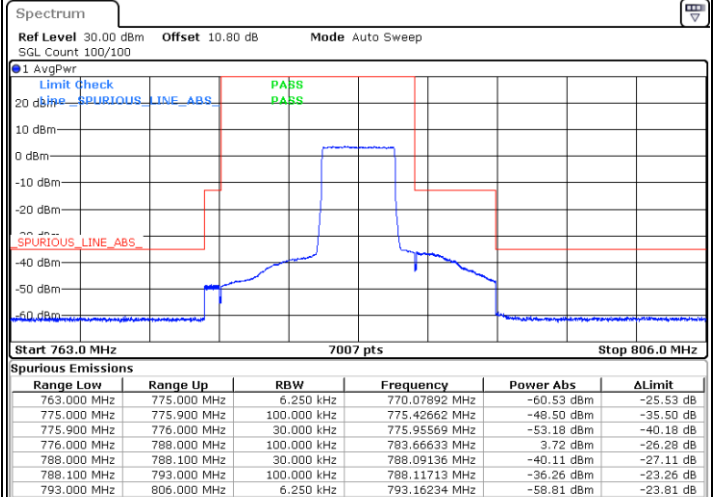
Date: 6 NOV 2019 00:00:28

Lowest Band Edge / Full RB



Date: 5 NOV 2019 23:46:39

Highest Band Edge / Full RB

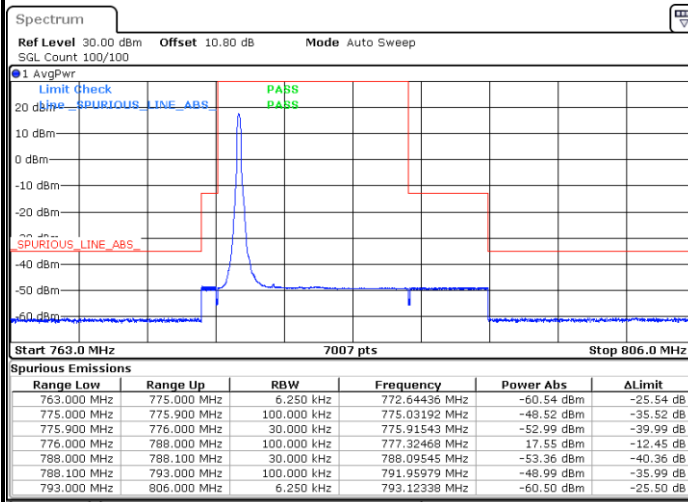


Date: 5 NOV 2019 23:58:49

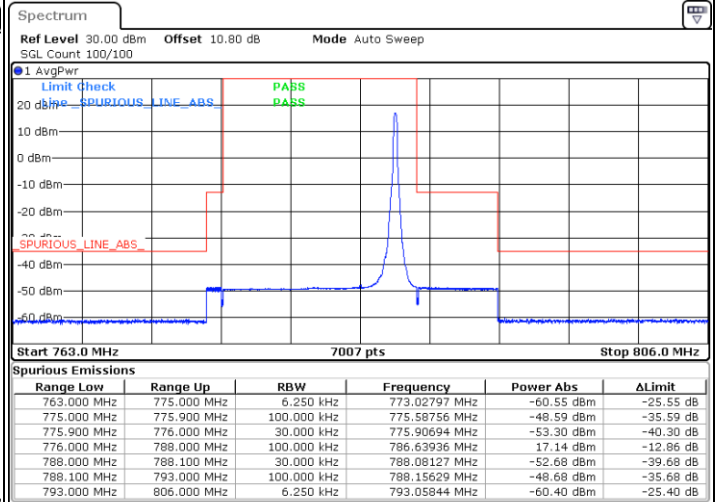


LTE Band 13 / 5MHz / 64QAM

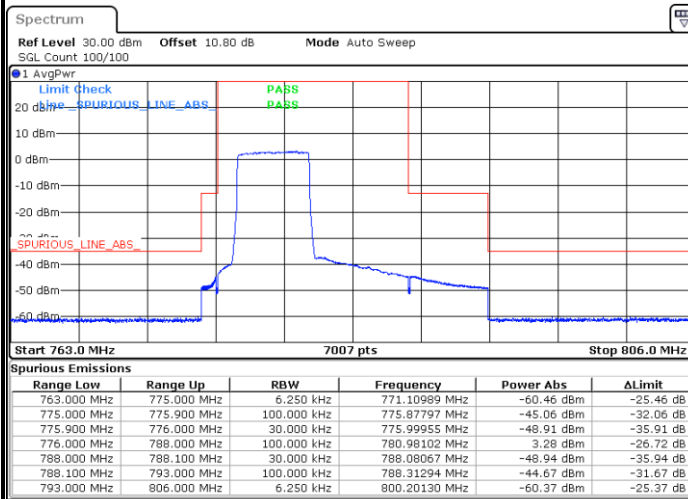
Lowest Band Edge / 1 RB



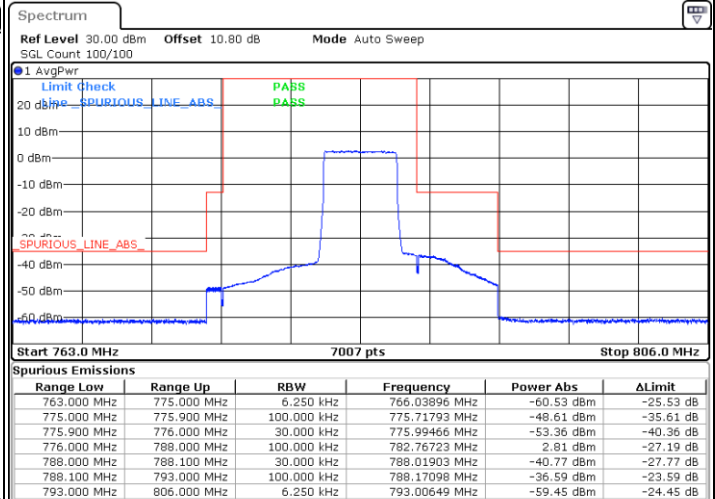
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



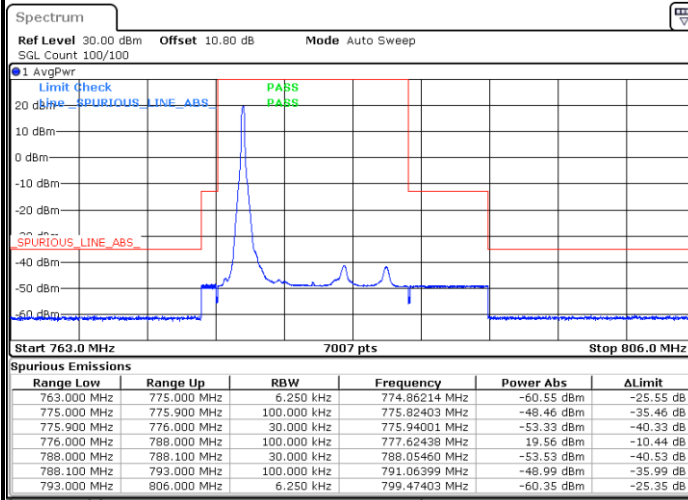
Highest Band Edge / Full RB





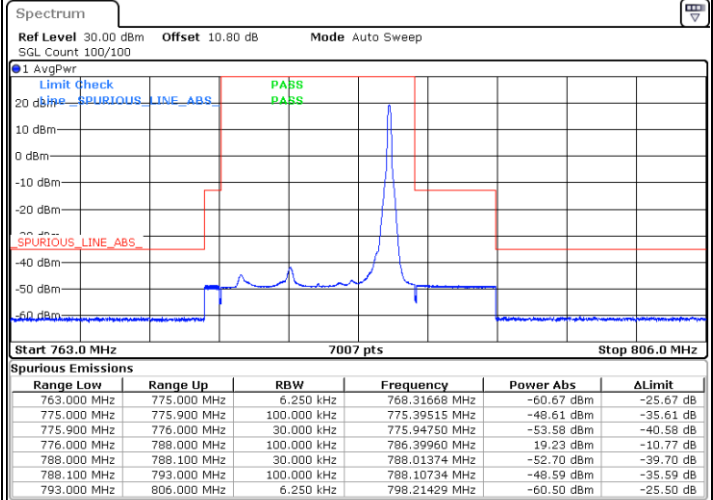
LTE Band 13 / 10MHz / QPSK

Lowest Band Edge / 1 RB



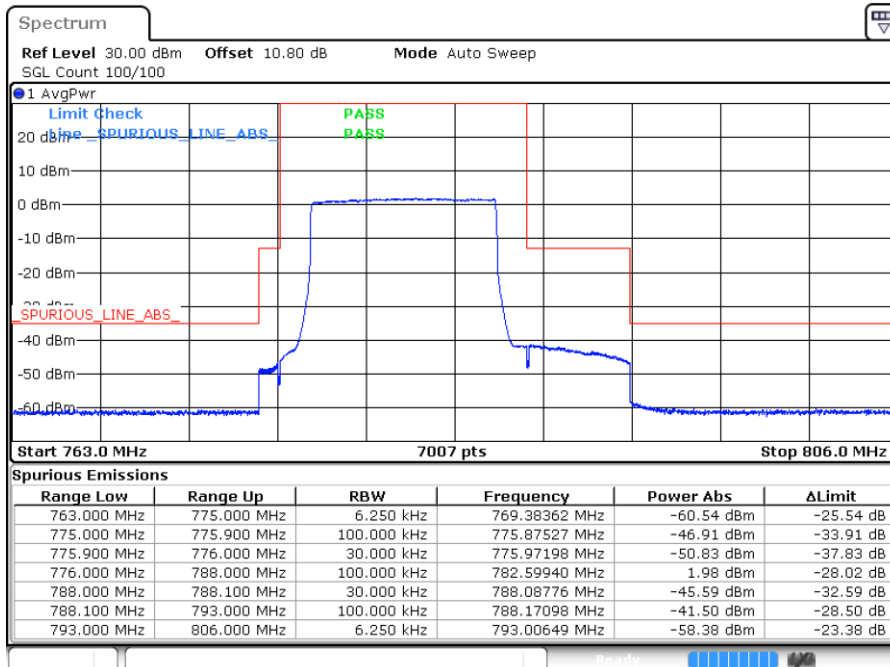
Date: 6 NOV 2019 00:22:15

Highest Band Edge / 1 RB



Date: 6 NOV 2019 00:23:53

Band Edge / Full RB

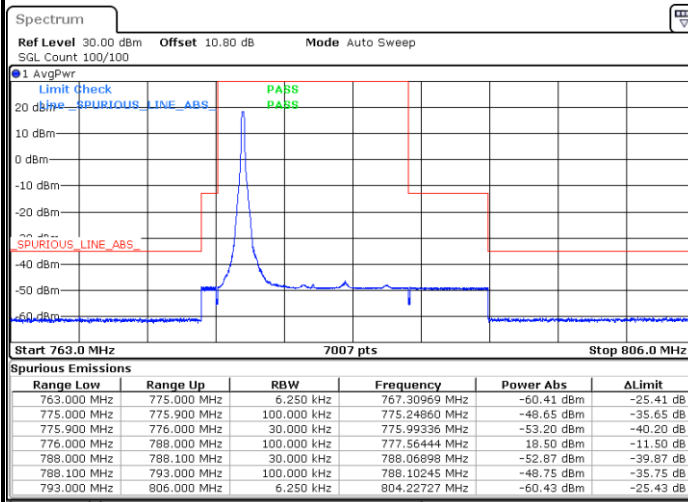


Date: 6 NOV 2019 00:17:19



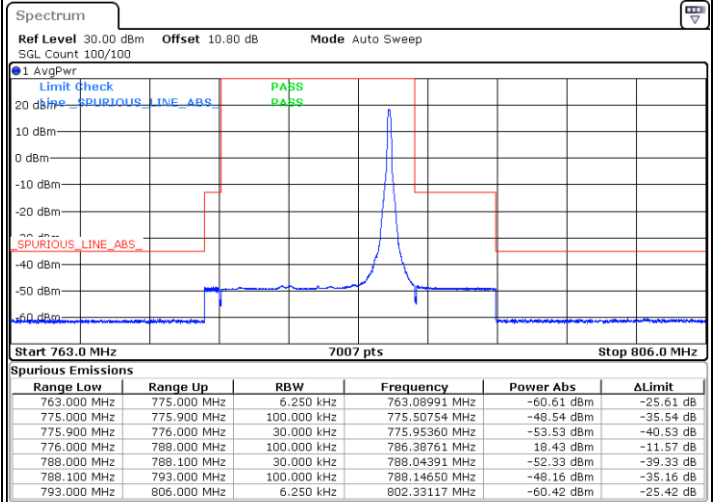
LTE Band 13 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



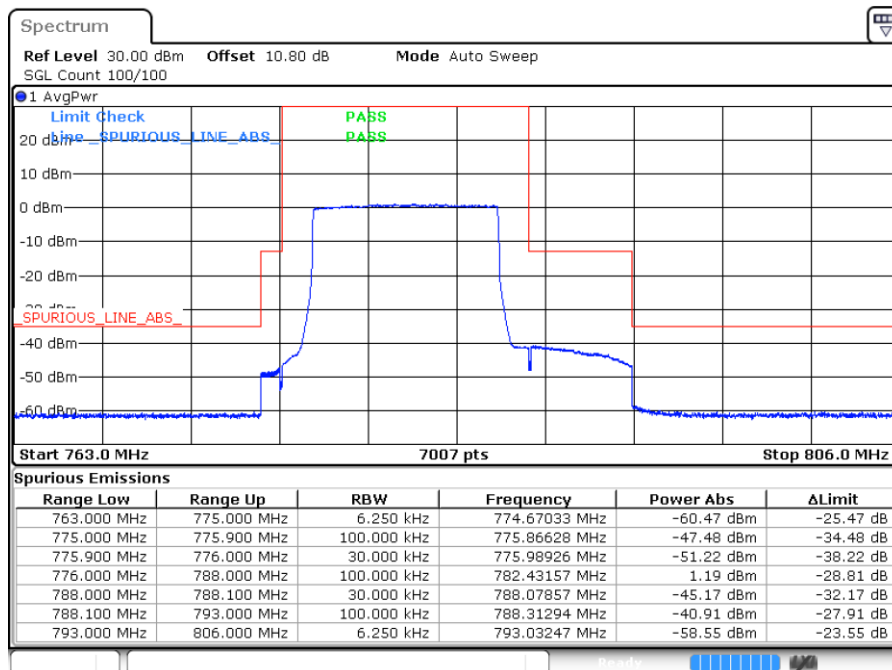
Date: 6 NOV 2019 00:20:36

Highest Band Edge / 1 RB



Date: 6 NOV 2019 00:25:32

Band Edge / Full RB

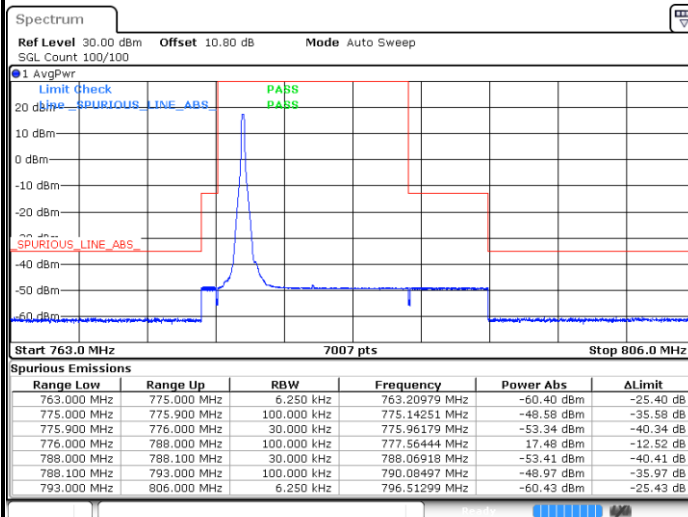


Date: 6 NOV 2019 00:18:58

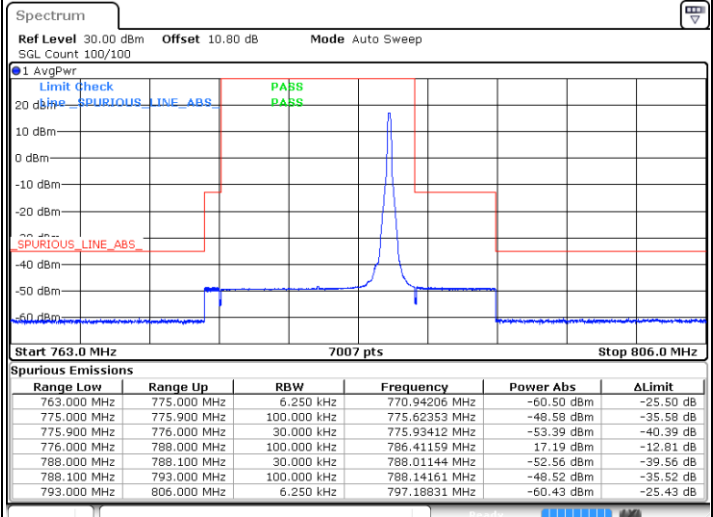


LTE Band 13 / 10MHz / 64QAM

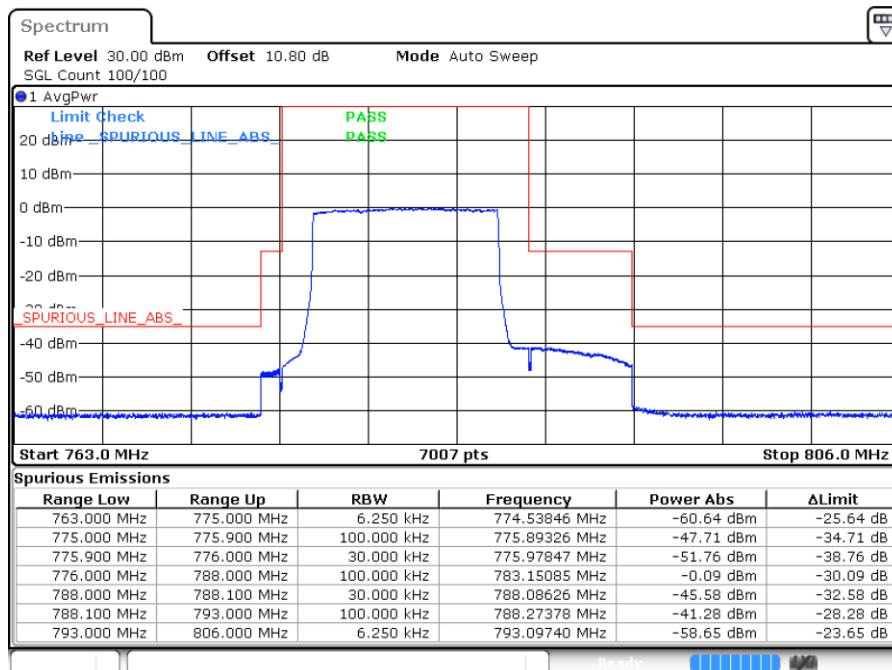
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Band Edge / Full RB

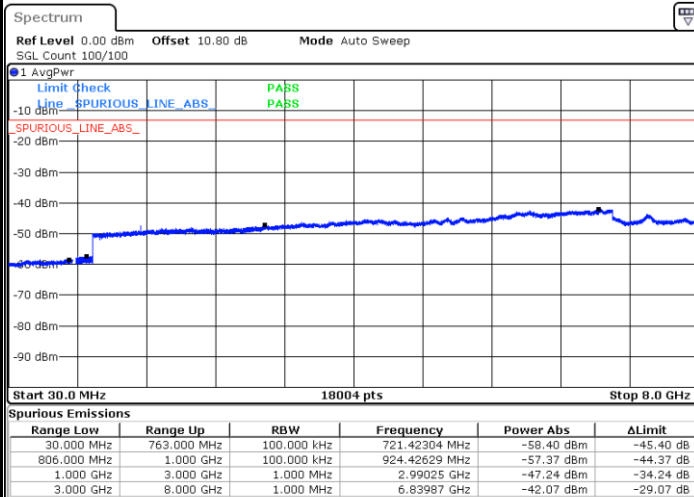




Conducted Spurious Emission

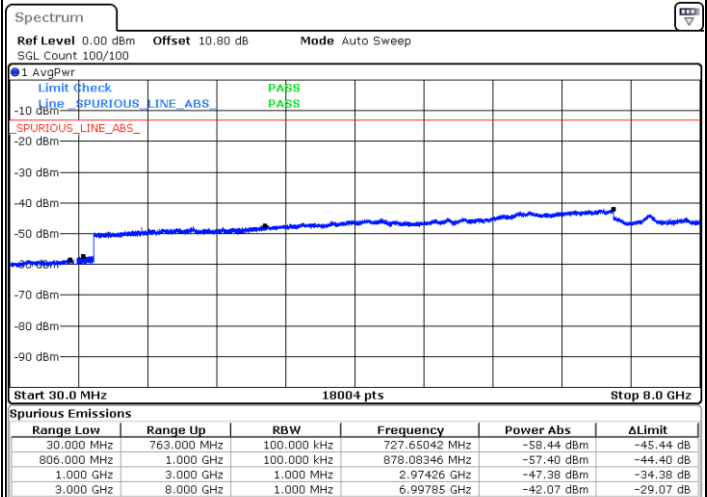
LTE Band 13 / 5MHz

Lowest Channel / QPSK



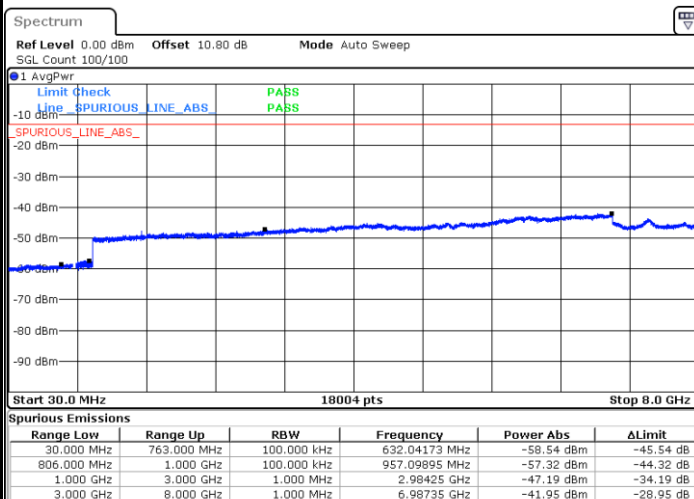
Date: 5.NOV.2019 23:50:58

Lowest Channel / 16QAM



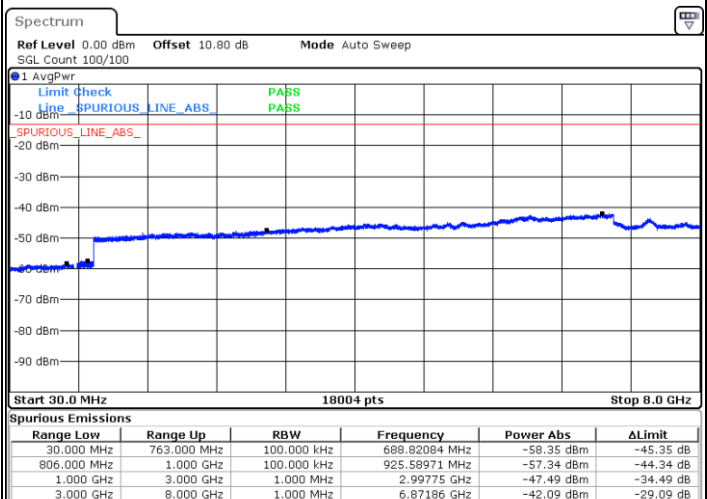
Date: 5.NOV.2019 23:51:58

Middle Channel / QPSK



Date: 5.NOV.2019 23:53:58

Middle Channel / 16QAM

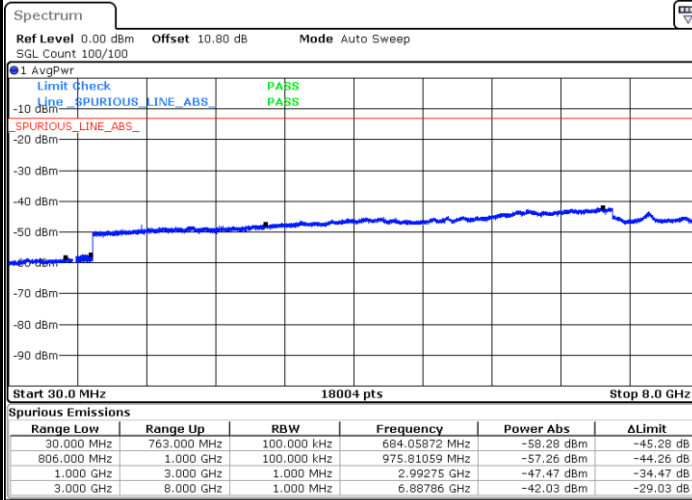


Date: 5.NOV.2019 23:52:58



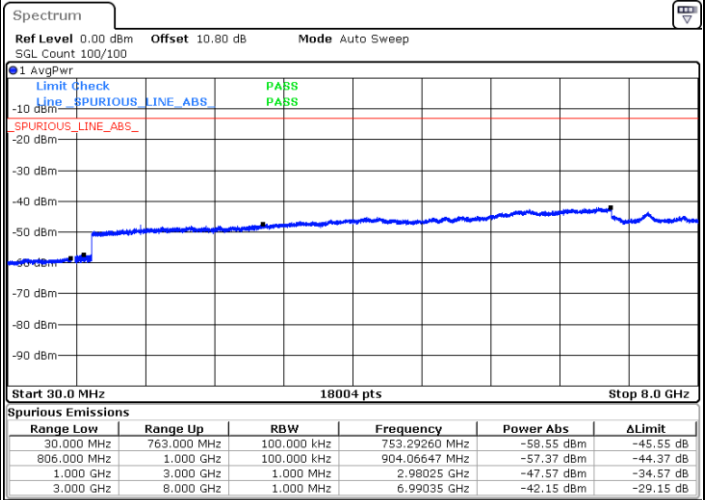
LTE Band 13 / 5MHz

Highest Channel / QPSK



Date: 6 NOV. 2019 00:03:07

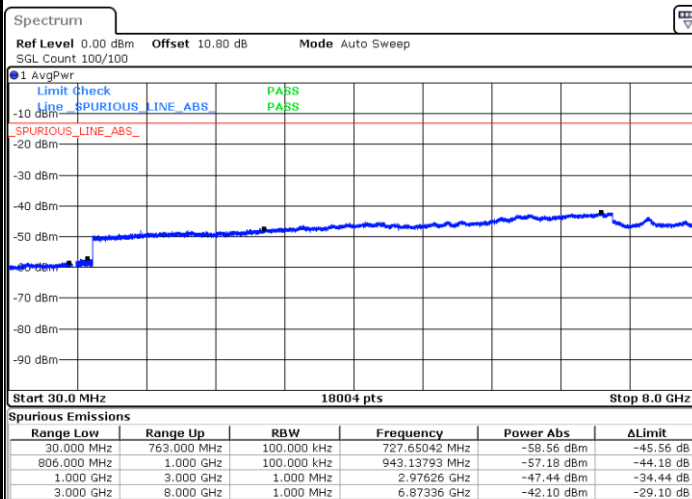
Highest Channel / 16QAM



Date: 6 NOV. 2019 00:04:07

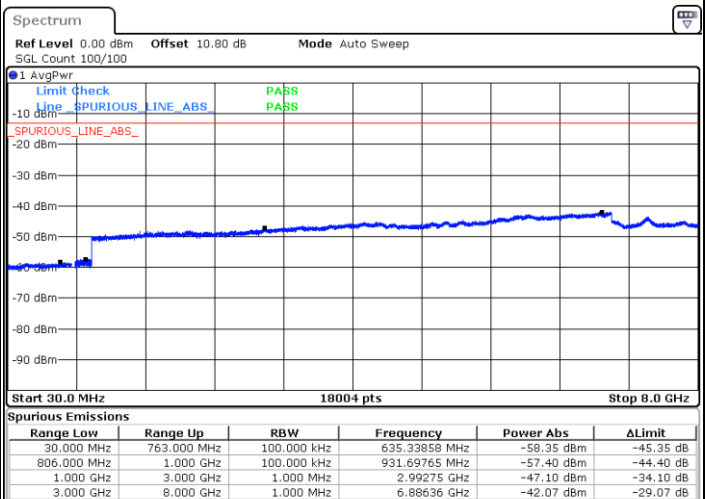
LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 6 NOV. 2019 00:27:31

Middle Channel / 16QAM

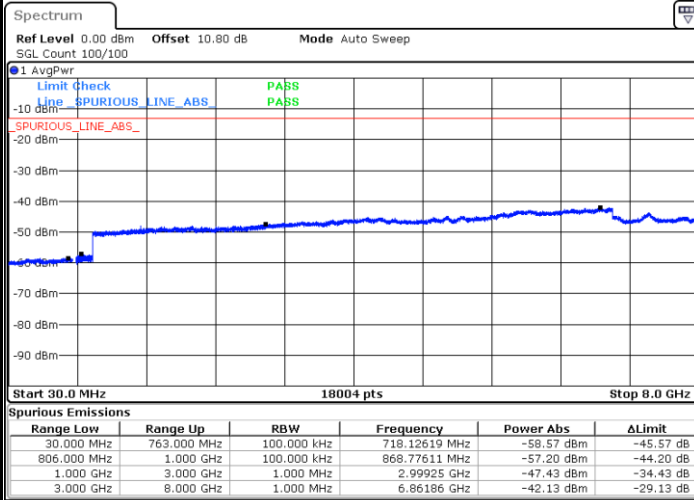


Date: 6 NOV. 2019 00:26:31



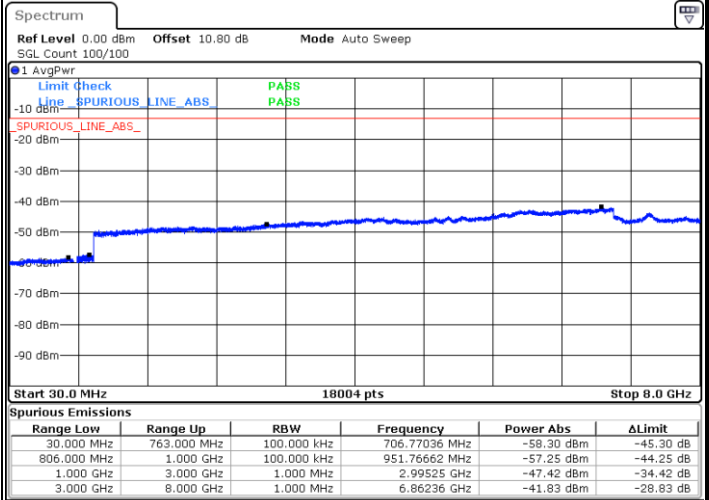
LTE Band 13 / 5MHz

Lowest Channel / 64QAM



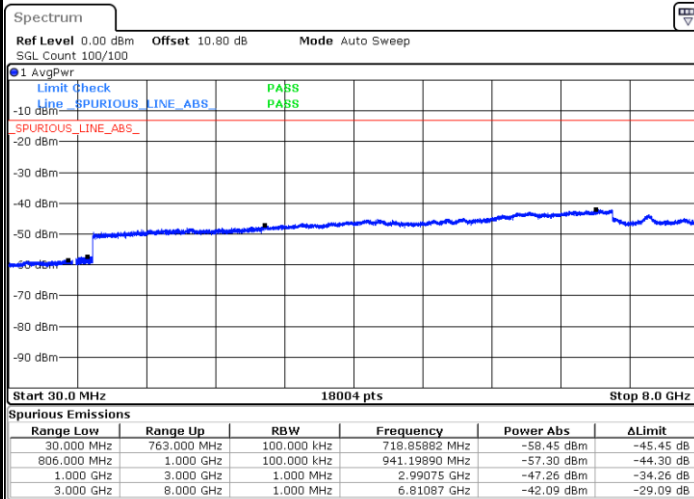
Date: 6 NOV. 2019 00:08:50

Middle Channel / 64QAM



Date: 6 NOV. 2019 00:09:49

Highest Channel / 64QAM

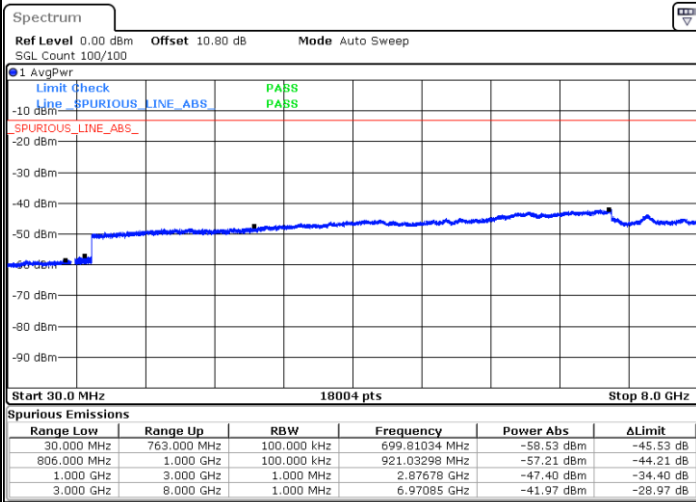


Date: 6 NOV. 2019 00:14:54



LTE Band 13 / 10MHz

Middle Channel / 64QAM



Date: 6 NOV. 2019 00:33:49

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	0.0073	PASS
40	Normal Voltage	0.0123	
30	Normal Voltage	0.0013	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0004	
0	Normal Voltage	0.0000	
-10	Normal Voltage	0.0081	
-20	Normal Voltage	0.0001	
-30	Normal Voltage	0.0118	
20	Maximum Voltage	0.0035	
20	Normal Voltage	0.0013	
20	Battery End Point	0.0018	

Note:

1. Normal Voltage =4.0 V. ; Battery End Point (BEP) =3.8 V. ; Maximum Voltage =4.2 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 66

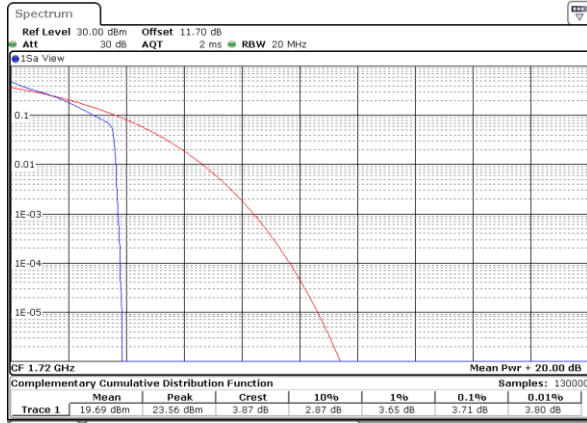
Peak-to-Average Ratio

Mode	LTE Band 66 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.71	4.90	4.46	5.80	PASS
Middle CH	3.68	5.01	4.35	5.91	
Highest CH	3.54	5.01	4.32	6.12	
Mode	LTE Band 66 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	5.62	6.35	-	-	PASS
Middle CH	5.30	6.35	-	-	
Highest CH	5.01	6.58	-	-	

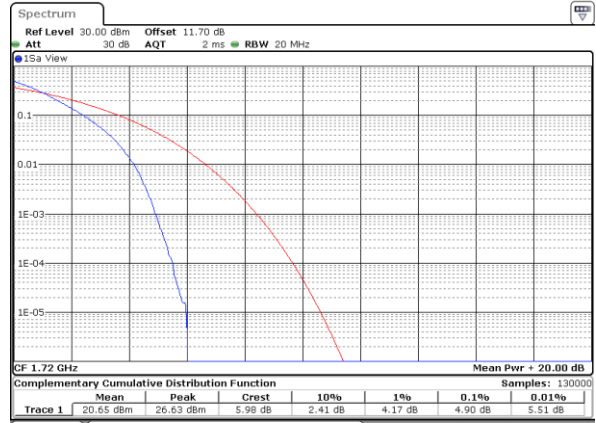


LTE Band 66 / 20MHz / QPSK

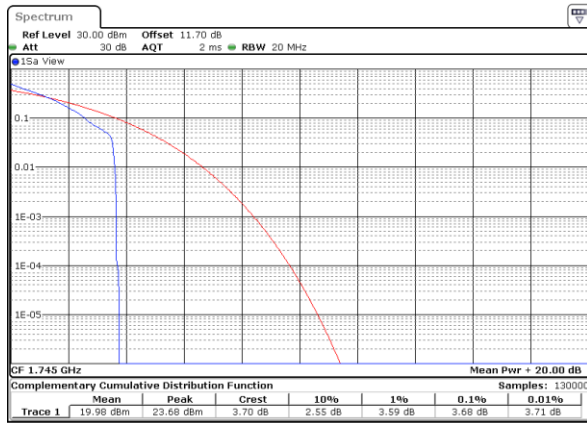
Lowest Channel / 1RB



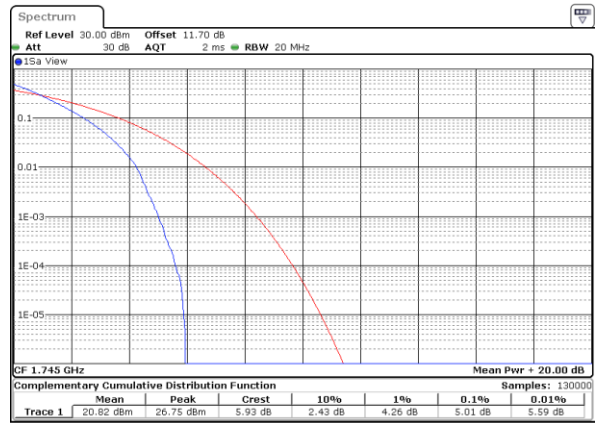
Lowest Channel / Full RB



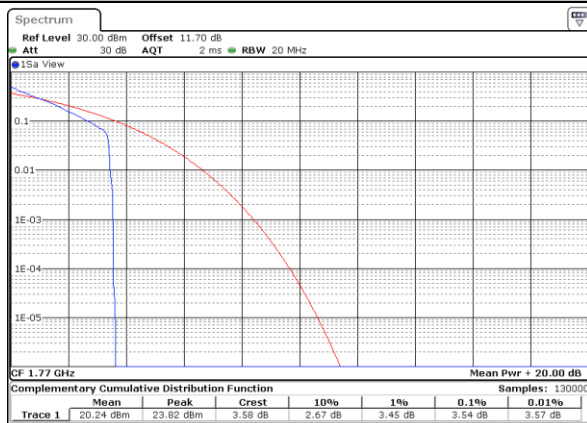
Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



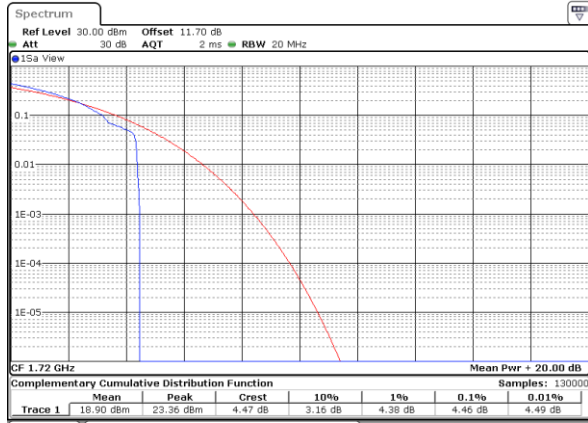
Highest Channel / Full RB



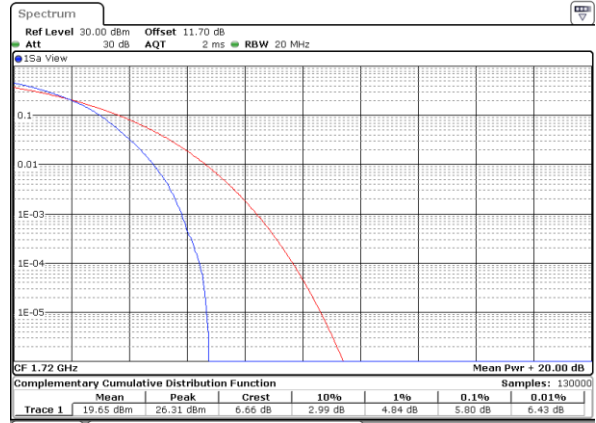


LTE Band 66 / 20MHz / 16QAM

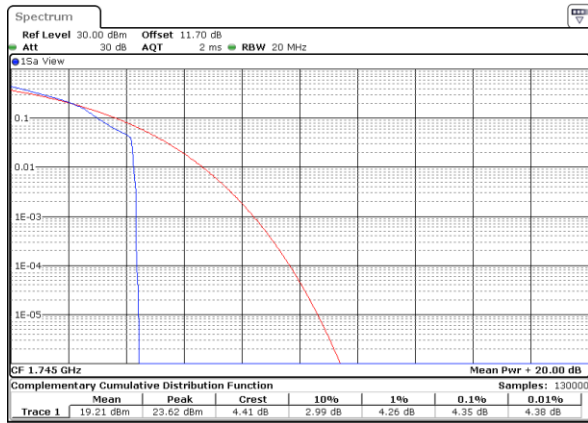
Lowest Channel / 1RB



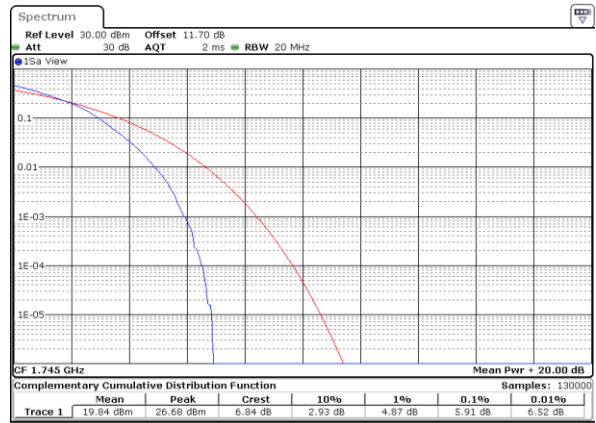
Lowest Channel / Full RB



Middle Channel / 1RB



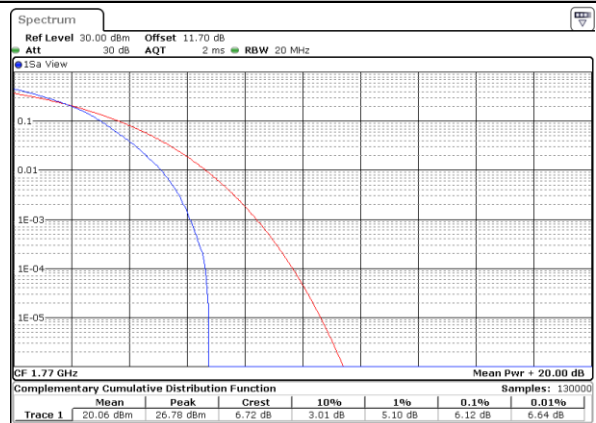
Middle Channel / Full RB

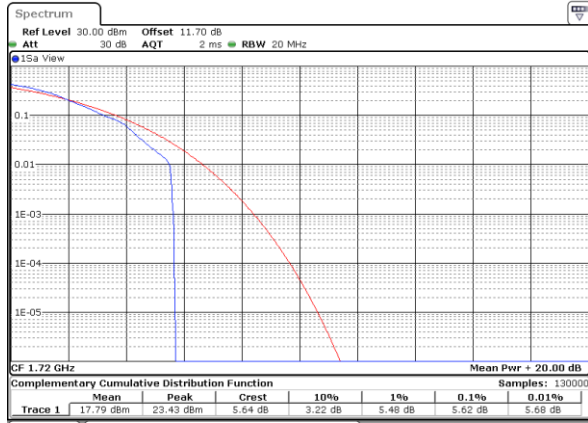


Highest Channel / 1RB

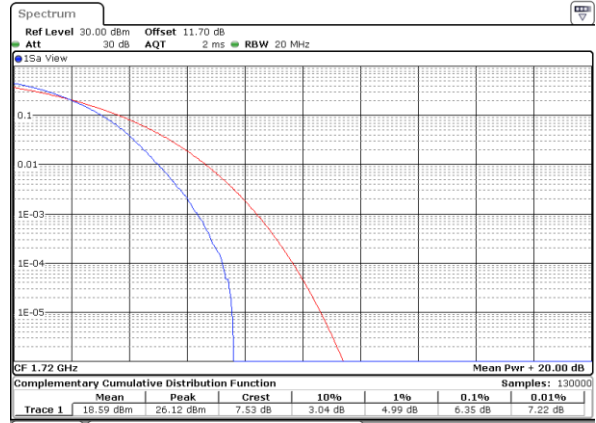


Highest Channel / Full RB

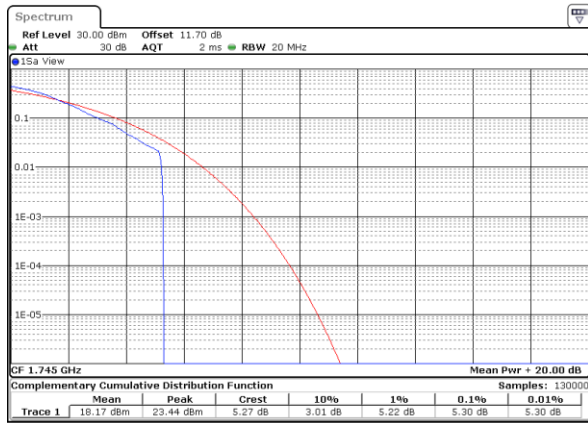


LTE Band 66 / 20MHz / 64QAM
Lowest Channel / 1RB


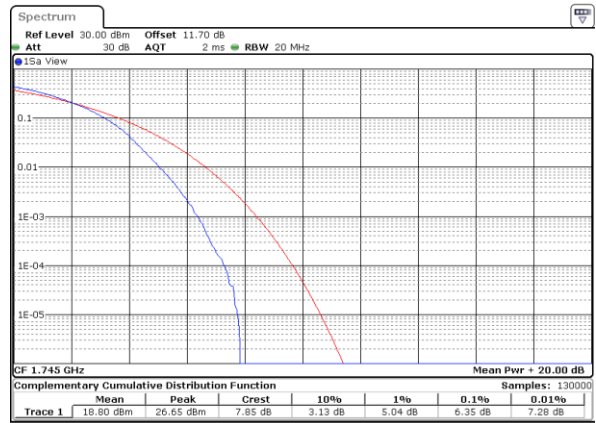
Date: 14.NOV.2019 15:02:06

Lowest Channel / Full RB


Date: 14.NOV.2019 15:02:18

Middle Channel / 1RB


Date: 14.NOV.2019 15:02:31

Middle Channel / Full RB


Date: 14.NOV.2019 15:02:44

Highest Channel / 1RB


Date: 14.NOV.2019 15:02:55

Highest Channel / Full RB


Date: 14.NOV.2019 15:03:08

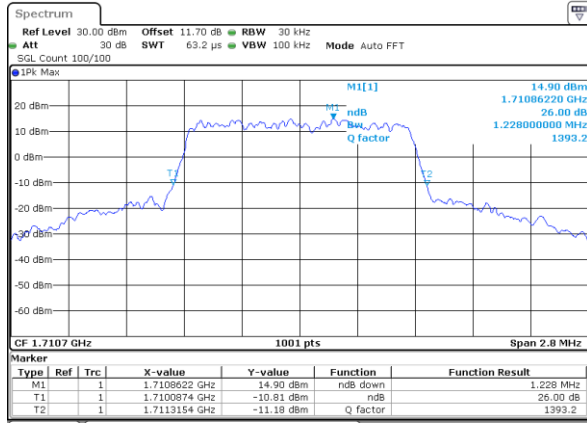
**26dB Bandwidth**

Mode	LTE Band 66 : 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	1.23	1.23	3.02	3.06	4.86	4.94	9.83	9.93	14.21	14.48	19.02	18.98
Middle CH	1.22	1.23	3.03	3.05	4.91	4.89	9.75	9.85	14.54	14.33	19.06	19.22
Highest CH	1.23	1.24	3.00	3.02	4.92	4.94	9.83	9.71	14.24	14.21	19.02	19.10
Mode	LTE Band 66 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.23	-	3.02	-	4.89	-	9.81	-	14.36	-	18.94	-
Middle CH	1.23	-	3.03	-	4.85	-	9.83	-	14.48	-	18.94	-
Highest CH	1.24	-	3.00	-	4.87	-	9.81	-	14.36	-	18.98	-



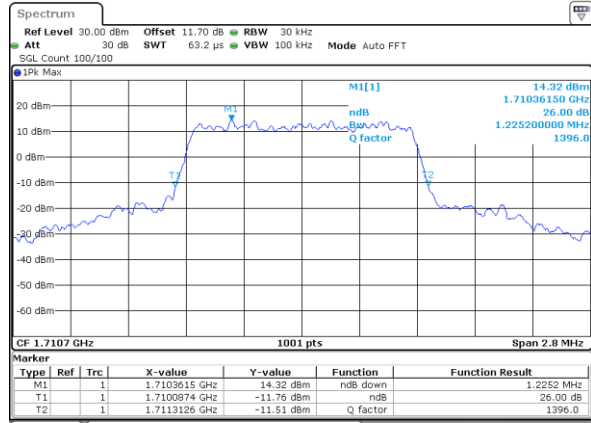
LTE Band 66

Lowest Channel / 1.4MHz / QPSK



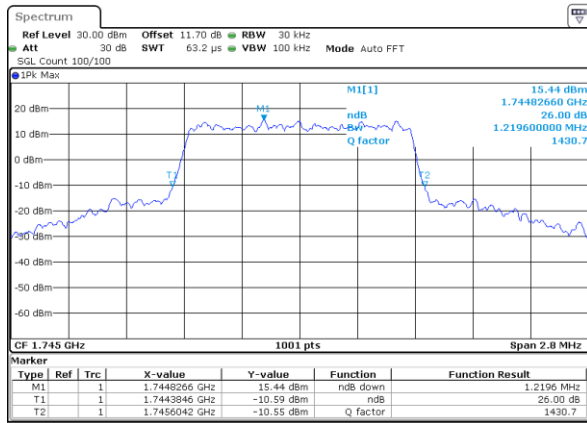
Date: 14.NOV.2019 10:57:17

Lowest Channel / 1.4MHz / 16QAM



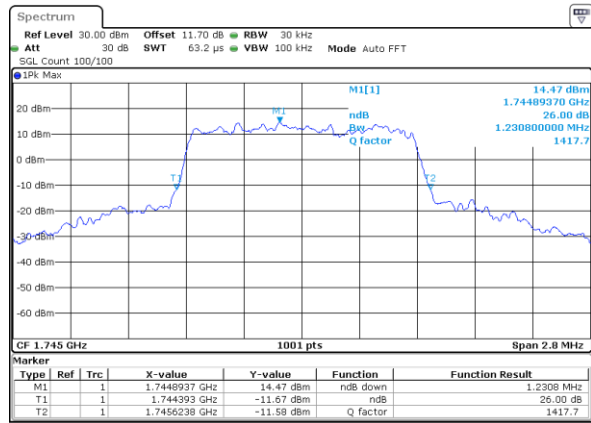
Date: 14.NOV.2019 10:57:30

Middle Channel / 1.4MHz / QPSK



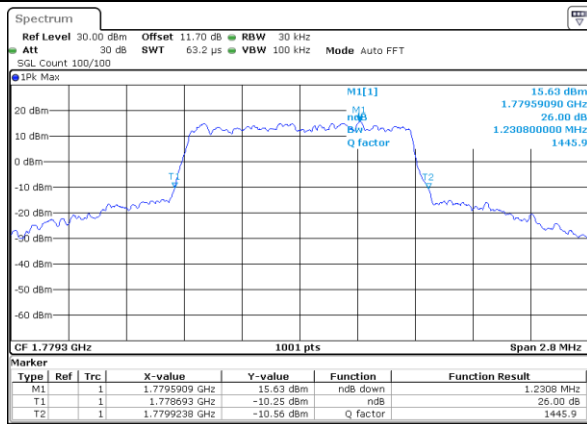
Date: 14.NOV.2019 11:03:46

Middle Channel / 1.4MHz / 16QAM



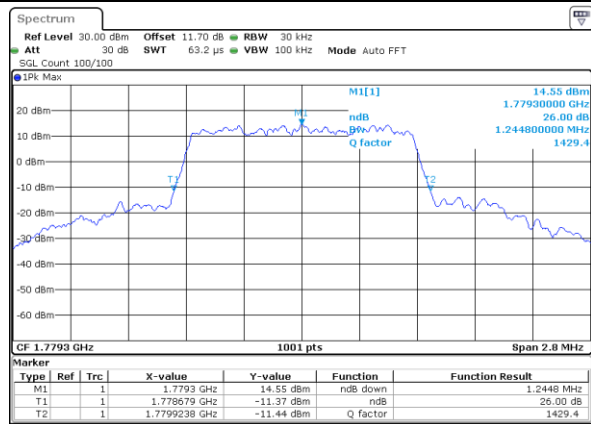
Date: 14.NOV.2019 11:03:58

Highest Channel / 1.4MHz / QPSK



Date: 14.NOV.2019 11:06:01

Highest Channel / 1.4MHz / 16QAM

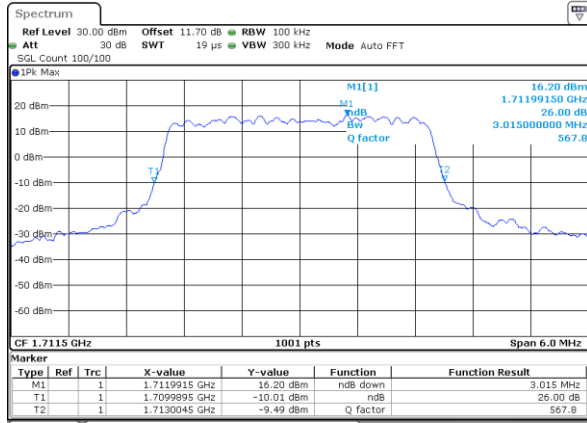


Date: 14.NOV.2019 11:06:14



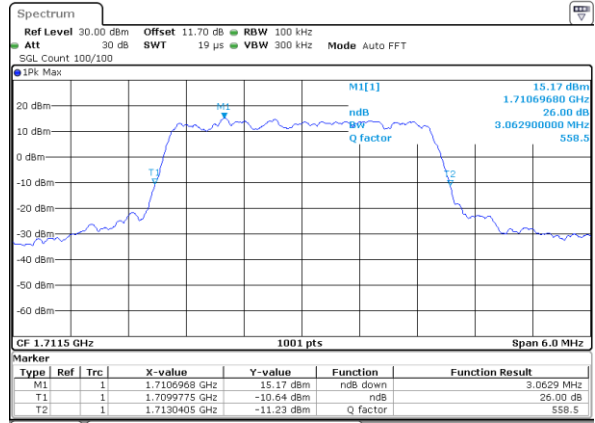
LTE Band 66

Lowest Channel / 3MHz / QPSK



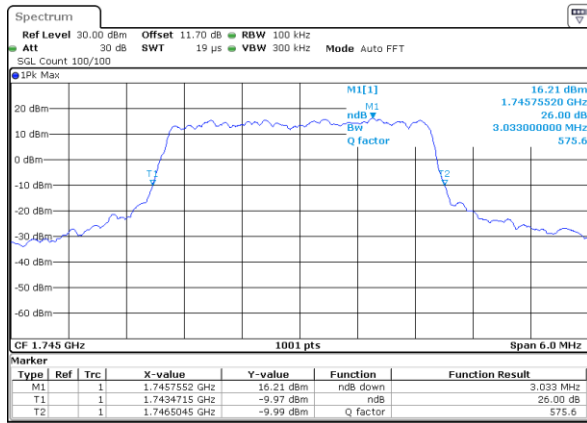
Date: 14.NOV.2019 11:20:00

Lowest Channel / 3MHz / 16QAM



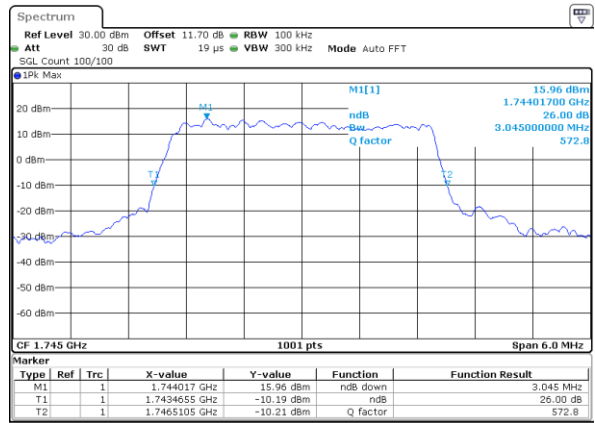
Date: 14.NOV.2019 11:20:12

Middle Channel / 3MHz / QPSK



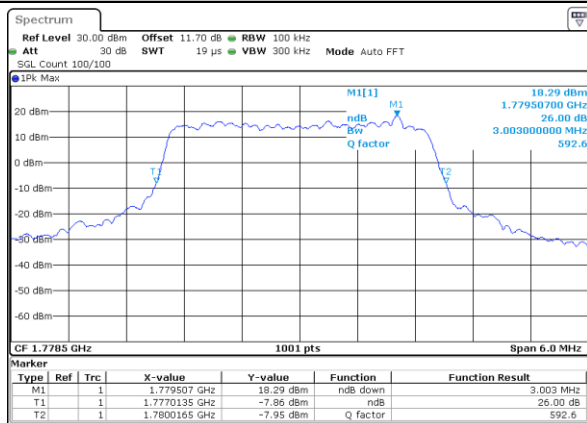
Date: 14.NOV.2019 11:26:14

Middle Channel / 3MHz / 16QAM



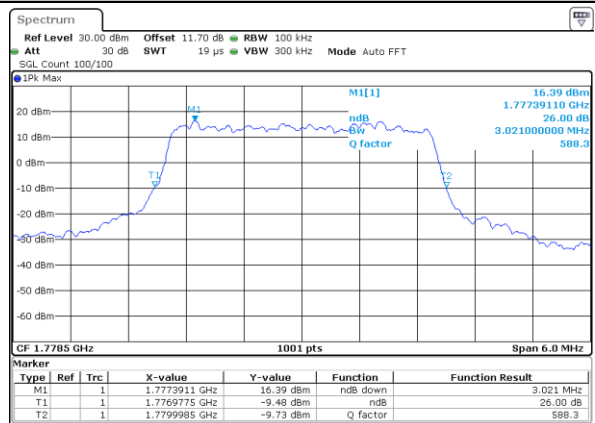
Date: 14.NOV.2019 11:26:26

Highest Channel / 3MHz / QPSK



Date: 14.NOV.2019 11:28:29

Highest Channel / 3MHz / 16QAM

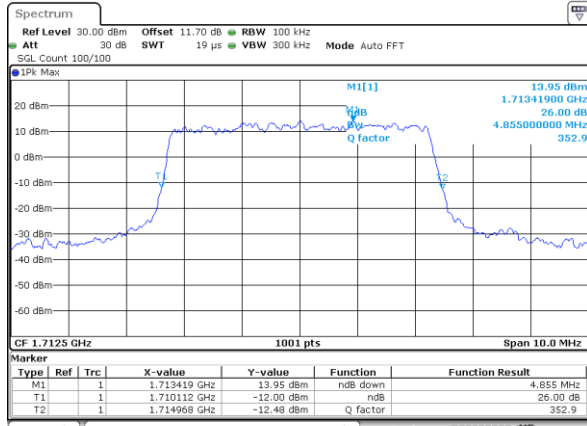


Date: 14.NOV.2019 11:28:41



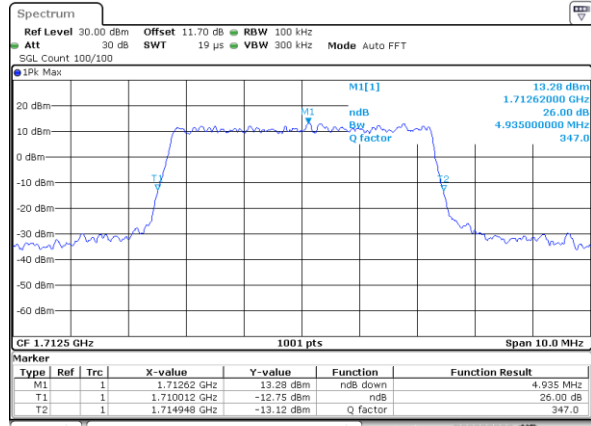
LTE Band 66

Lowest Channel / 5MHz / QPSK



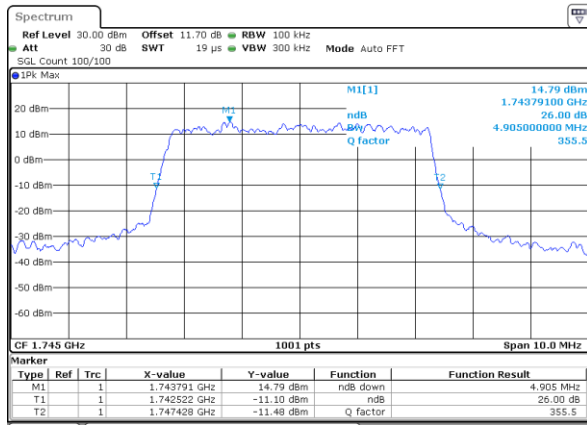
Date: 14.NOV.2019 13:37:04

Lowest Channel / 5MHz / 16QAM



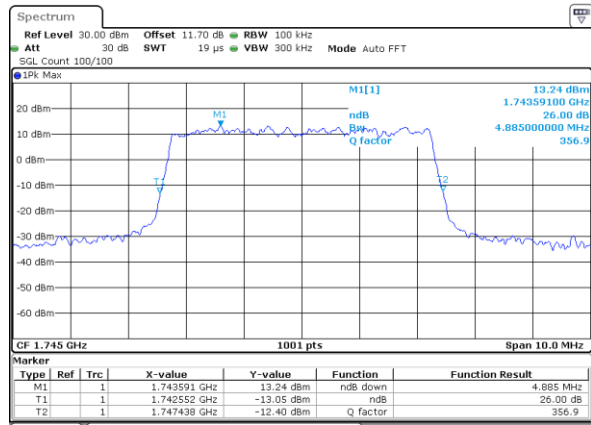
Date: 14.NOV.2019 13:37:16

Middle Channel / 5MHz / QPSK



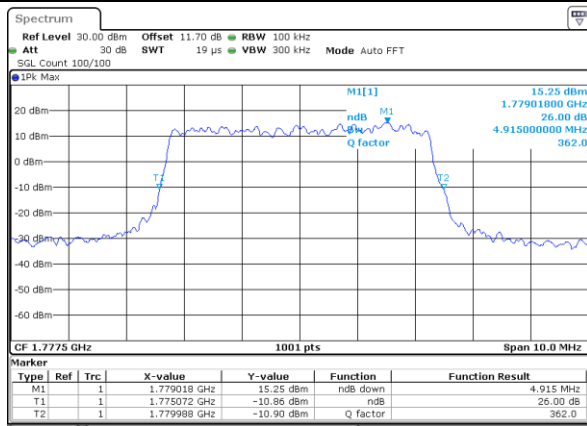
Date: 14.NOV.2019 13:43:17

Middle Channel / 5MHz / 16QAM



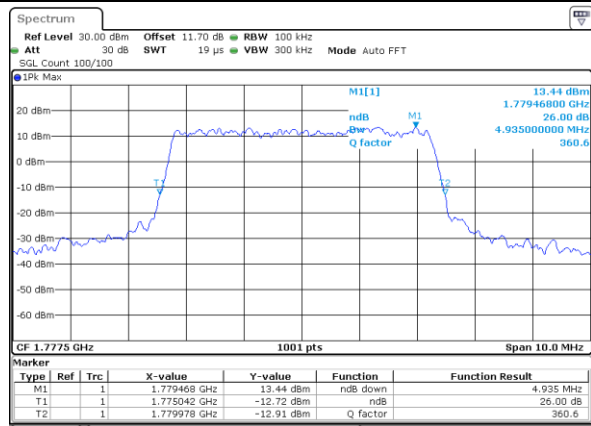
Date: 14.NOV.2019 13:43:29

Highest Channel / 5MHz / QPSK



Date: 14.NOV.2019 13:45:32

Highest Channel / 5MHz / 16QAM

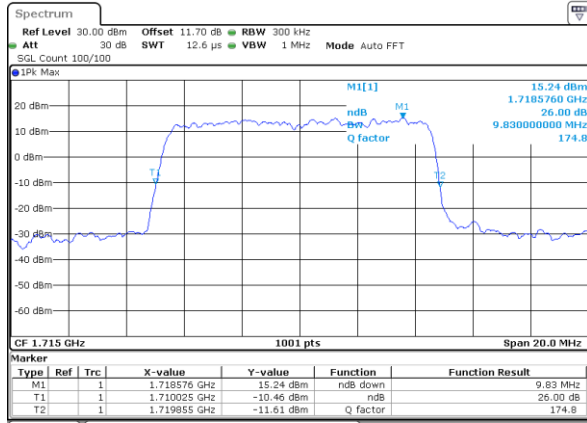


Date: 14.NOV.2019 13:45:44



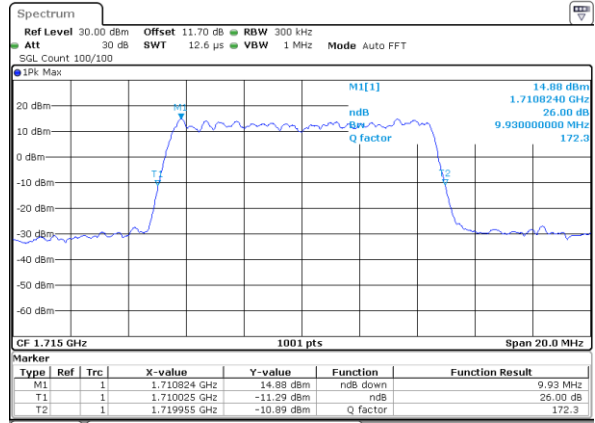
LTE Band 66

Lowest Channel / 10MHz / QPSK



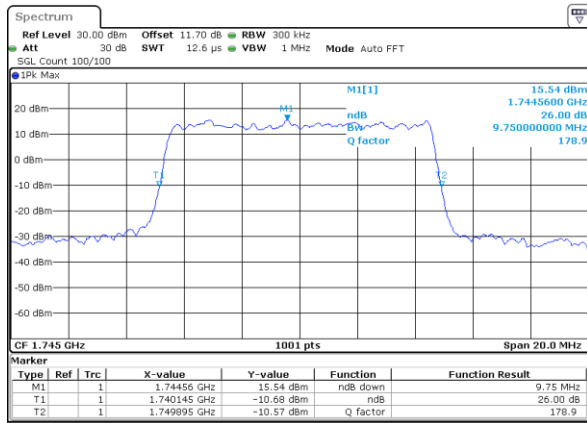
Date: 14.NOV.2019 13:51:45

Lowest Channel / 10MHz / 16QAM



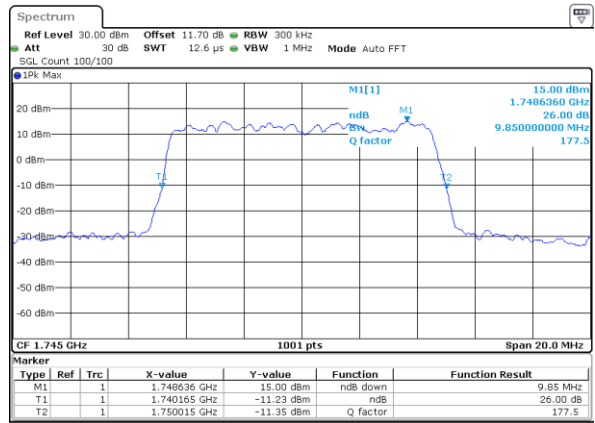
Date: 14.NOV.2019 13:51:57

Middle Channel / 10MHz / QPSK



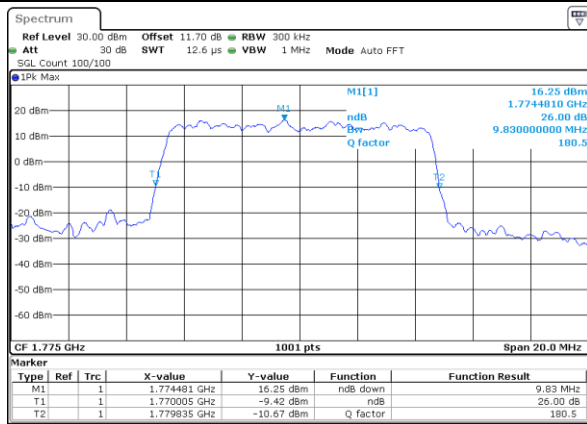
Date: 14.NOV.2019 13:57:58

Middle Channel / 10MHz / 16QAM



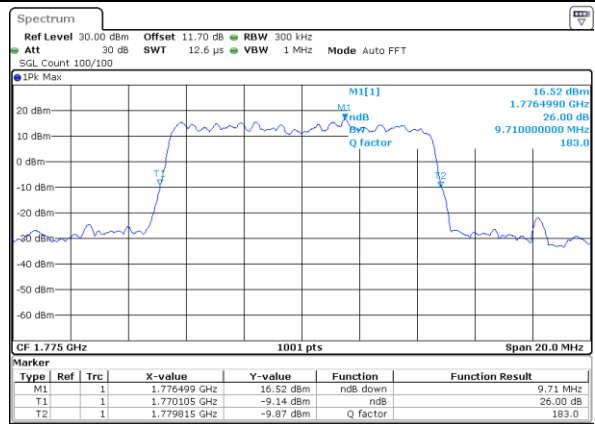
Date: 14.NOV.2019 13:58:10

Highest Channel / 10MHz / QPSK



Date: 14.NOV.2019 14:00:12

Highest Channel / 10MHz / 16QAM

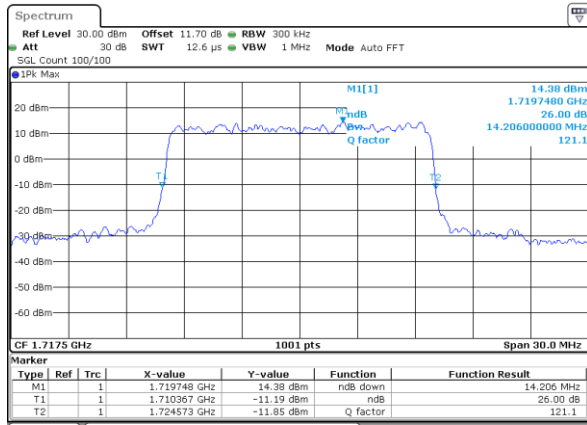


Date: 14.NOV.2019 14:00:24



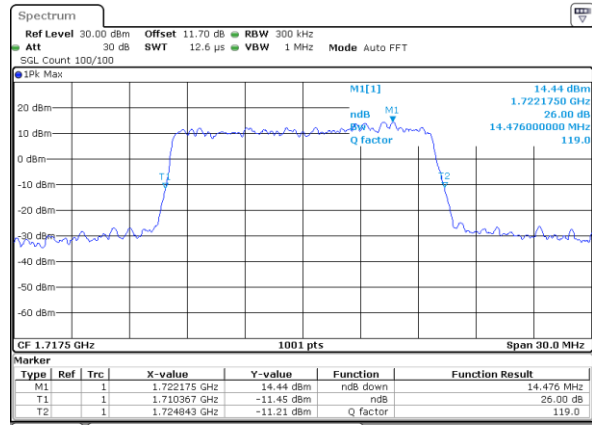
LTE Band 66

Lowest Channel / 15MHz / QPSK



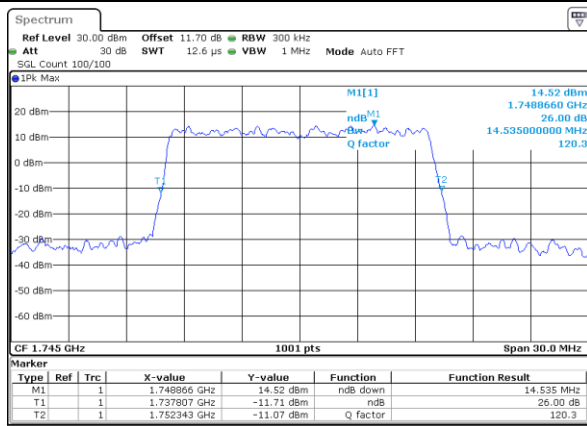
Date: 14.NOV.2019 14:21:04

Lowest Channel / 15MHz / 16QAM



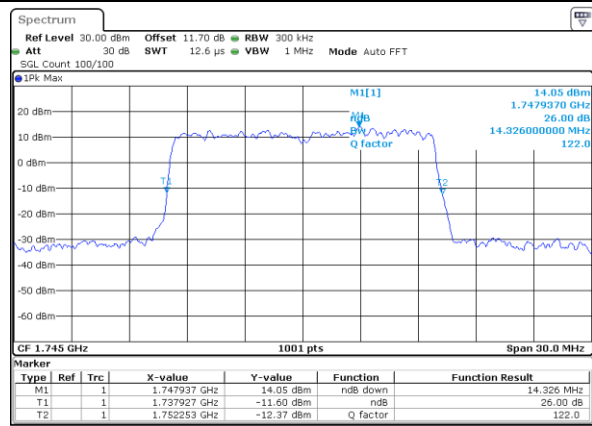
Date: 14.NOV.2019 14:21:16

Middle Channel / 15MHz / QPSK



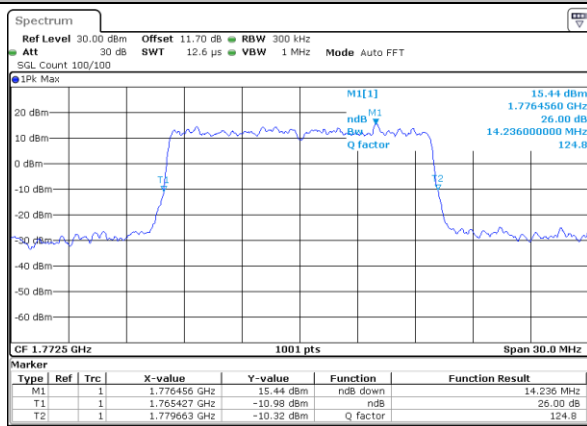
Date: 14.NOV.2019 14:27:16

Middle Channel / 15MHz / 16QAM



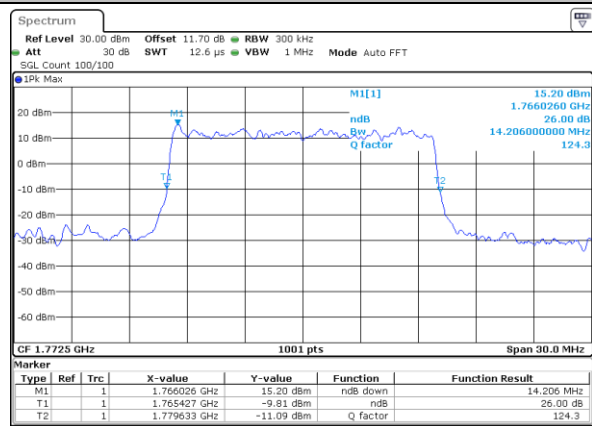
Date: 14.NOV.2019 14:27:28

Highest Channel / 15MHz / QPSK



Date: 14.NOV.2019 14:29:31

Highest Channel / 15MHz / 16QAM

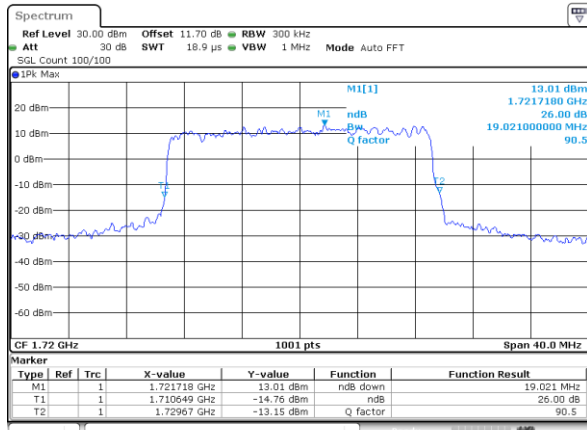


Date: 14.NOV.2019 14:29:43

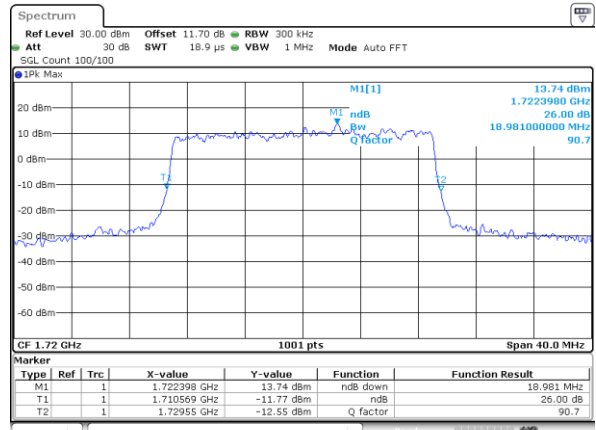


LTE Band 66

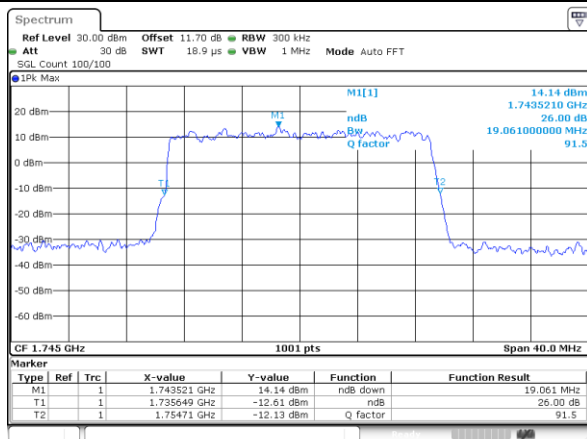
Lowest Channel / 20MHz / QPSK



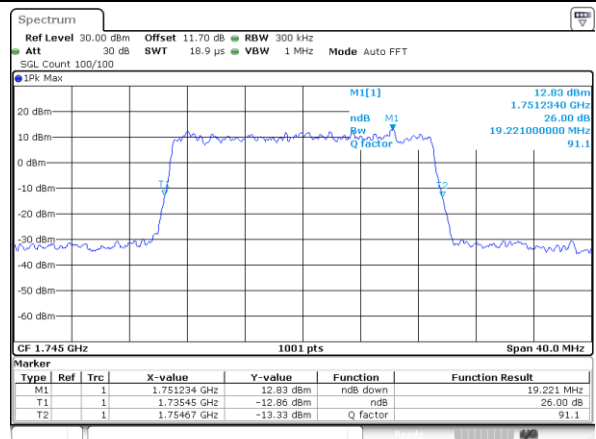
Lowest Channel / 20MHz / 16QAM



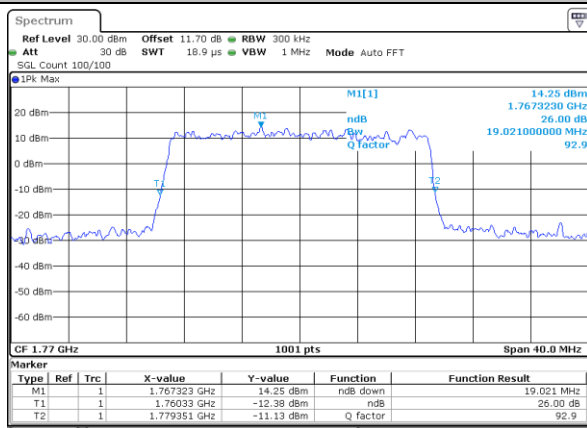
Middle Channel / 20MHz / QPSK



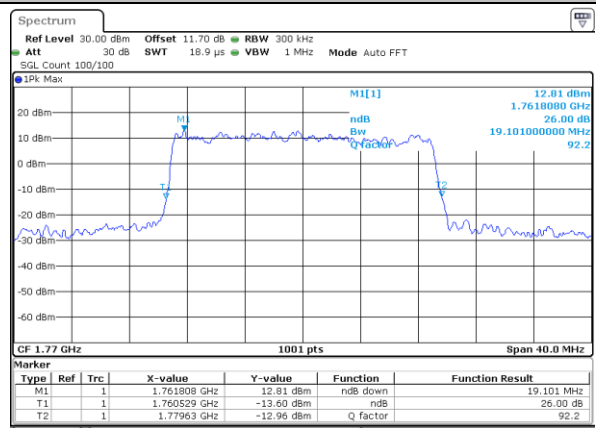
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK



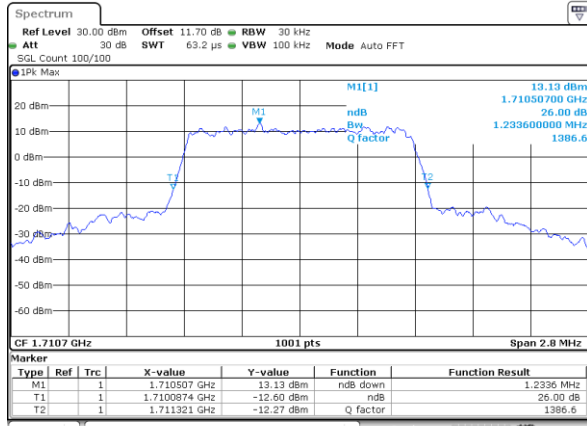
Highest Channel / 20MHz / 16QAM





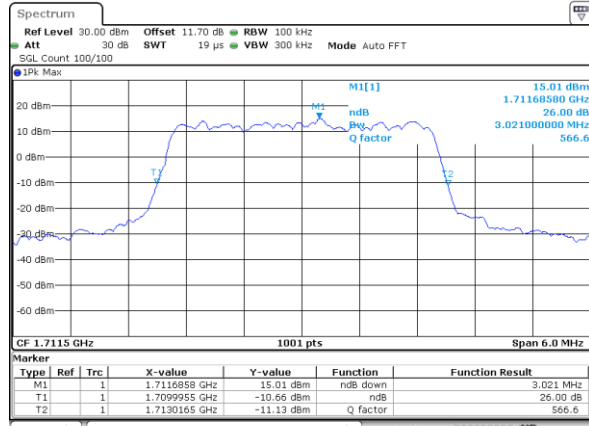
LTE Band 66

Lowest Channel / 1.4MHz / 64QAM



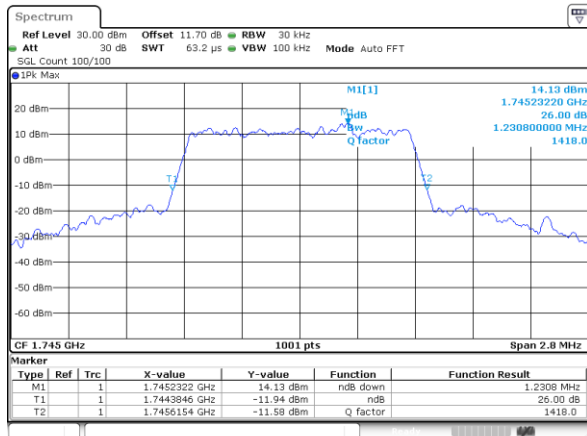
Date: 14.NOV.2019 11:12:15

Lowest Channel / 3MHz / 64QAM



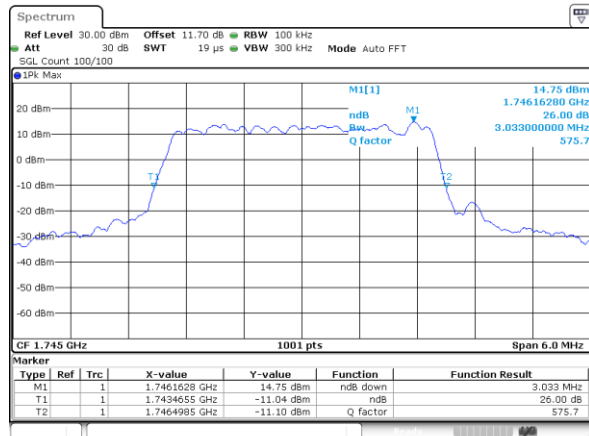
Date: 14.NOV.2019 11:34:29

Middle Channel / 20MHz / 64QAM



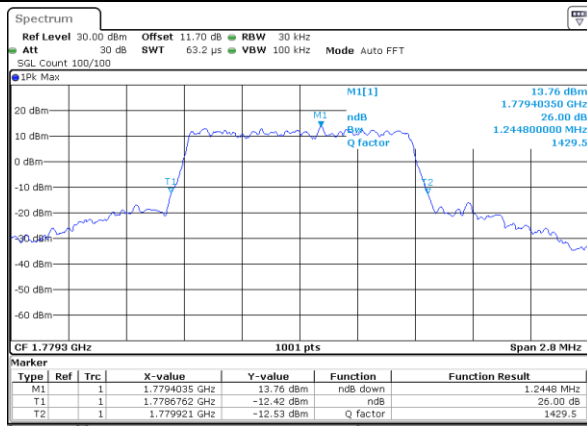
Date: 14.NOV.2019 11:15:28

Middle Channel / 3MHz / 64QAM



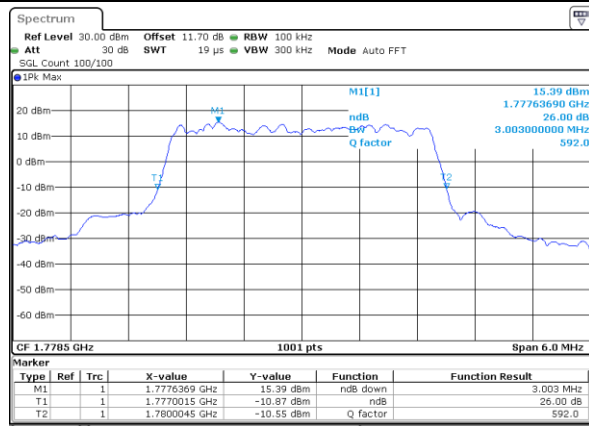
Date: 14.NOV.2019 11:37:36

Highest Channel / 20MHz / 64QAM



Date: 14.NOV.2019 11:16:35

Highest Channel / 3MHz / 64QAM

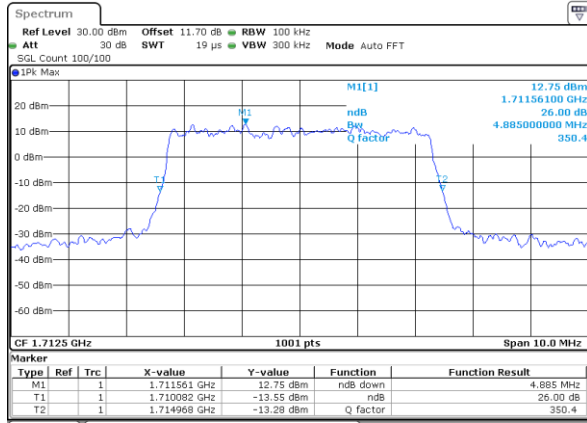


Date: 14.NOV.2019 11:38:43



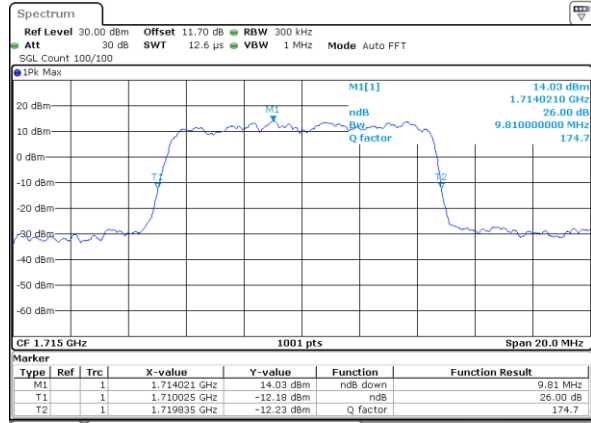
LTE Band 66

Lowest Channel / 5MHz / 64QAM



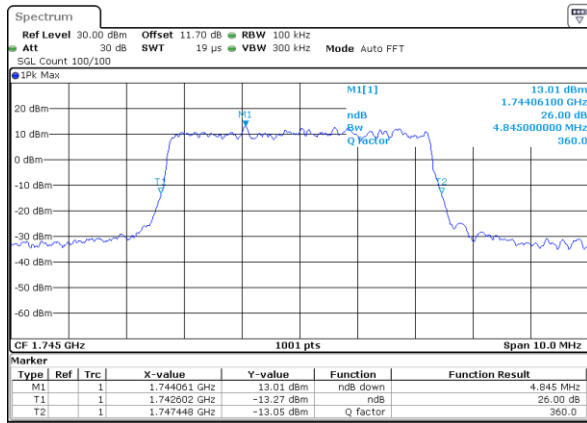
Date: 14.NOV.2019 13:29:32

Lowest Channel / 10MHz / 64QAM



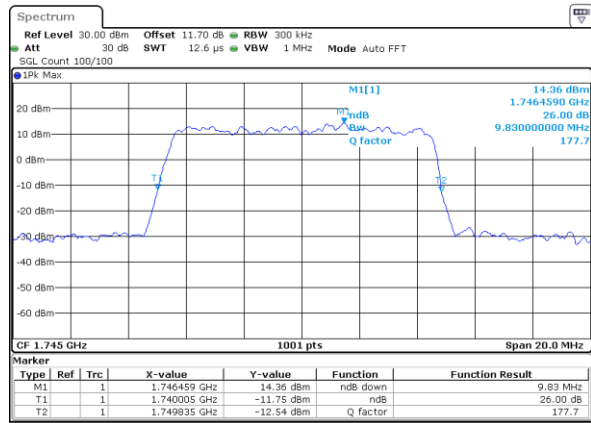
Date: 14.NOV.2019 14:06:13

Middle Channel / 5MHz / 64QAM



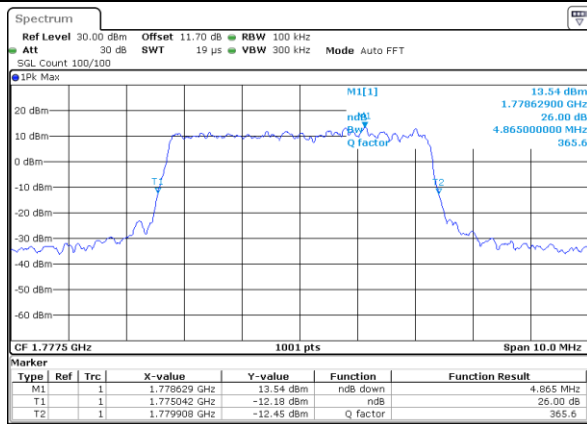
Date: 14.NOV.2019 13:32:39

Middle Channel / 10MHz / 64QAM



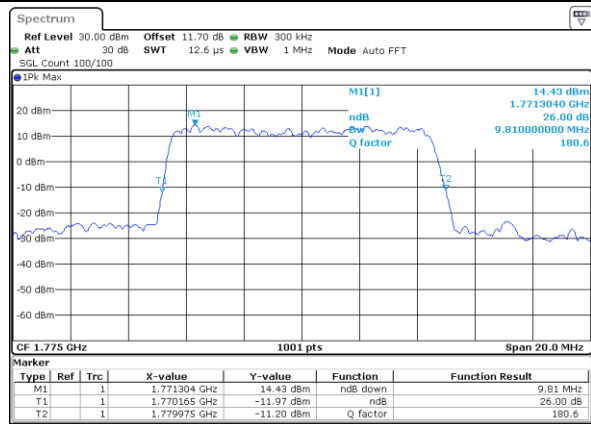
Date: 14.NOV.2019 14:09:19

Highest Channel / 5MHz / 64QAM



Date: 14.NOV.2019 13:33:46

Highest Channel / 10MHz / 64QAM

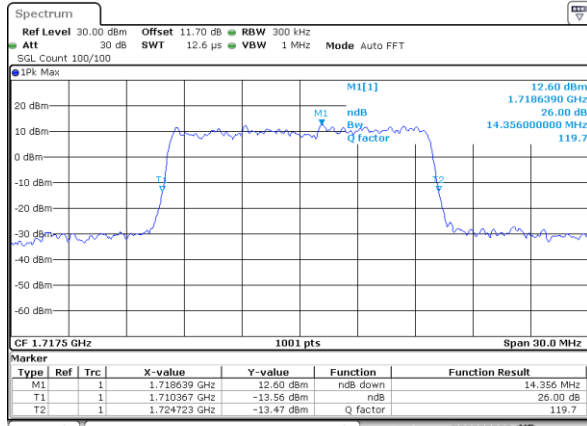


Date: 14.NOV.2019 14:10:26

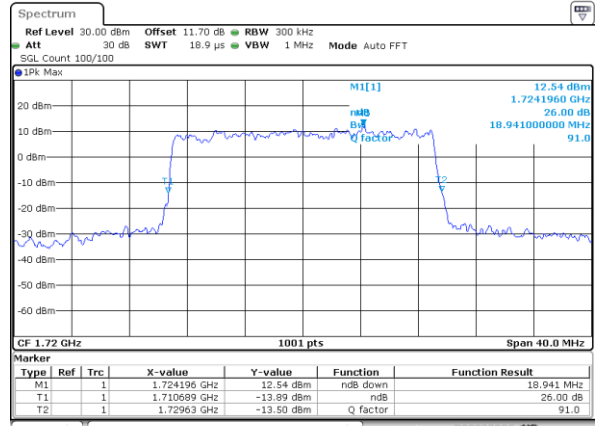


LTE Band 66

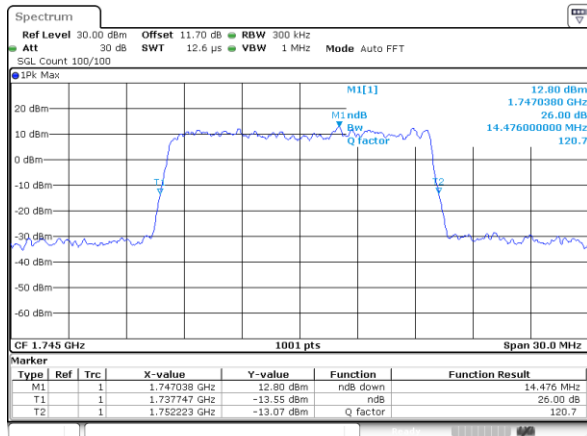
Lowest Channel / 15MHz / 64QAM



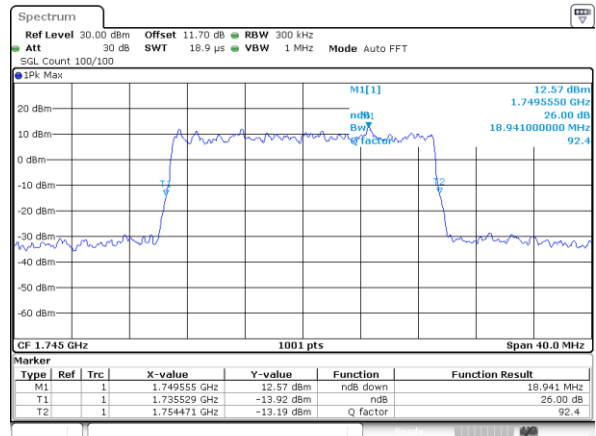
Lowest Channel / 20MHz / 64QAM



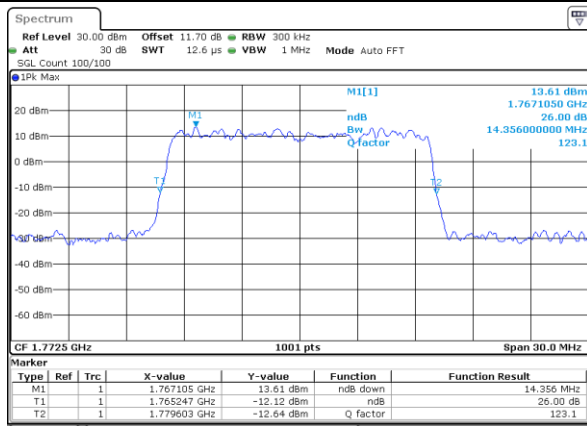
Middle Channel / 15MHz / 64QAM



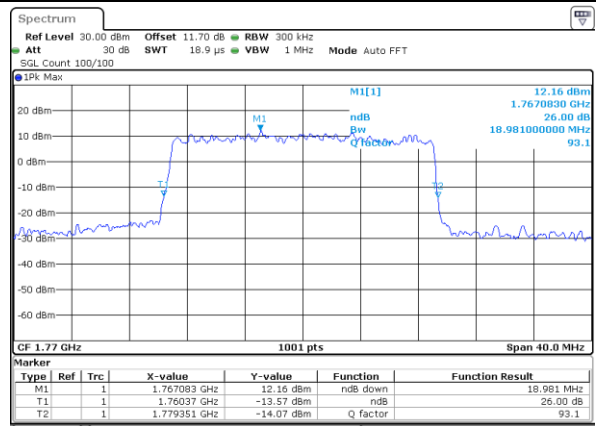
Middle Channel / 20MHz / 64QAM



Highest Channel / 15MHz / 64QAM



Highest Channel / 20MHz / 64QAM



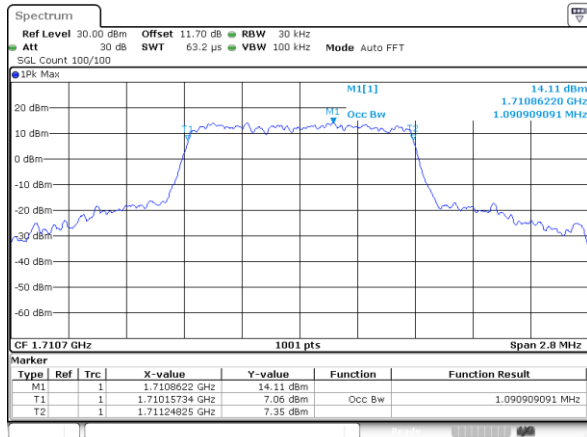
**Occupied Bandwidth**

Mode	LTE Band 66 : 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	1.09	1.09	2.72	2.72	4.49	4.49	8.99	9.01	13.40	13.43	17.90	17.86
Middle CH	1.09	1.09	2.74	2.70	4.49	4.51	9.05	9.07	13.43	13.40	17.94	17.86
Highest CH	1.09	1.09	2.73	2.73	4.48	4.51	9.07	9.03	13.40	13.49	17.94	17.90
Mode	LTE Band 66 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.09	-	2.75	-	4.49	-	9.01	-	13.40	-	17.90	-
Middle CH	1.09	-	2.73	-	4.48	-	8.97	-	13.46	-	17.98	-
Highest CH	1.10	-	2.72	-	4.52	-	9.05	-	13.49	-	17.90	-

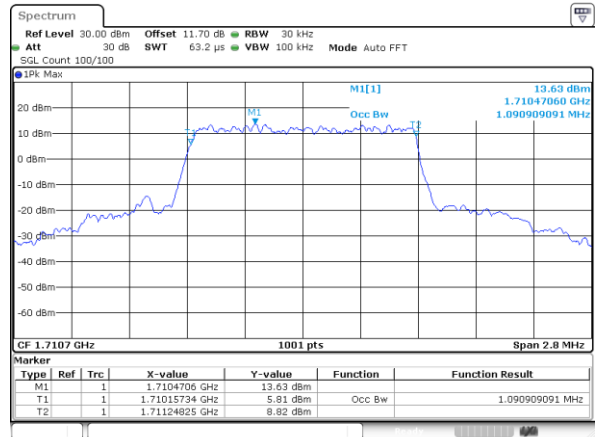


LTE Band 66

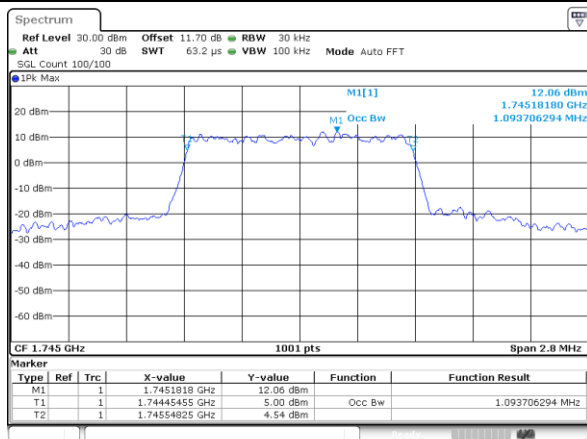
Lowest Channel / 1.4MHz / QPSK



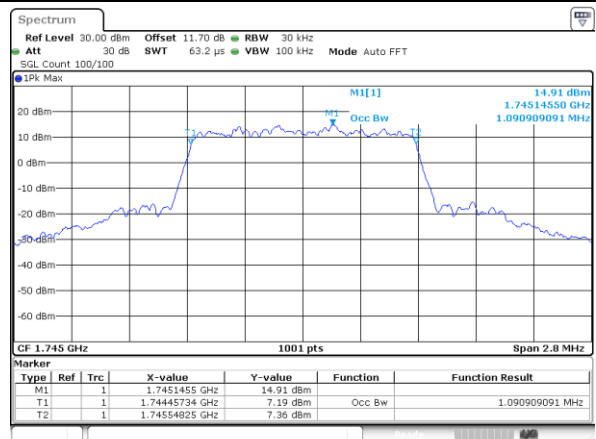
Lowest Channel / 1.4MHz / 16QAM



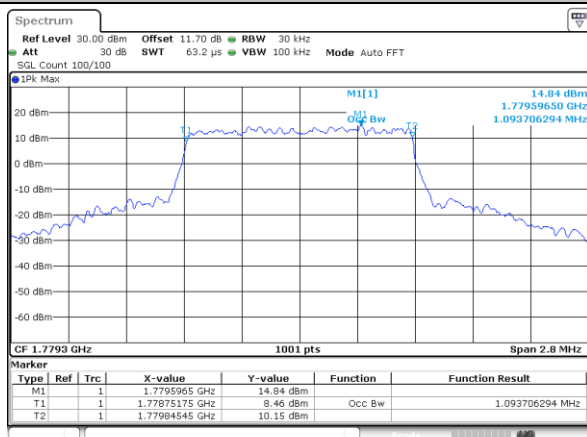
Middle Channel / 1.4MHz / QPSK



Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



Highest Channel / 1.4MHz / 16QAM

