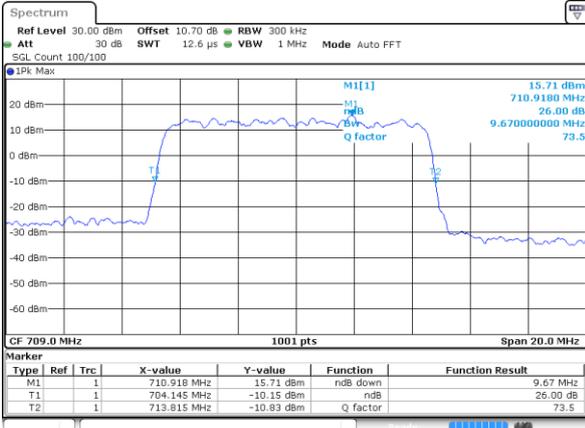


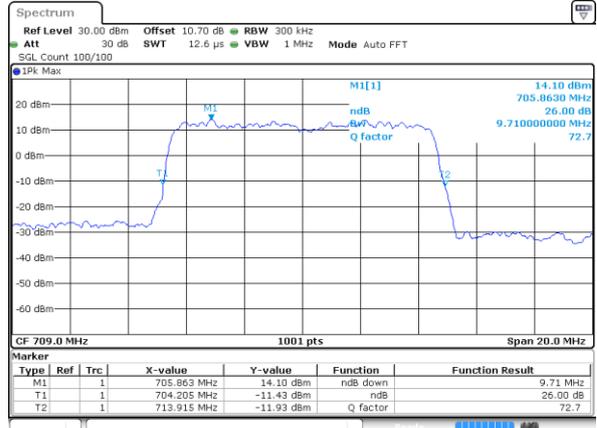


LTE Band 17

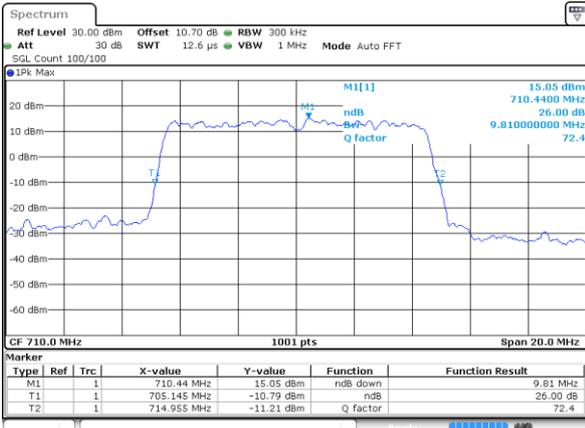
Lowest Channel / 10MHz / QPSK



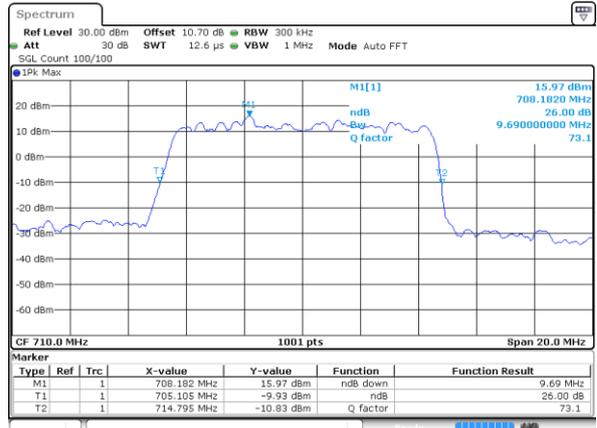
Lowest Channel / 10MHz / 16QAM



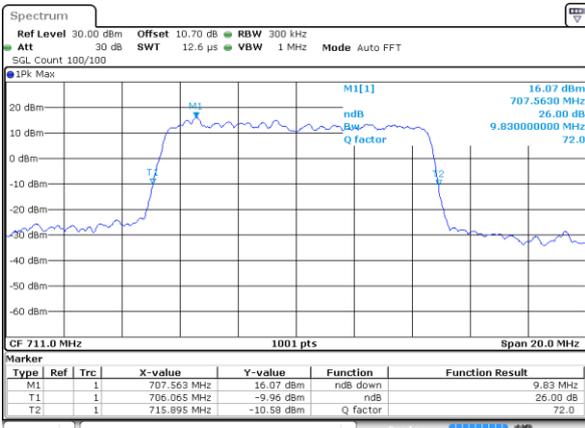
Middle Channel / 10MHz / QPSK



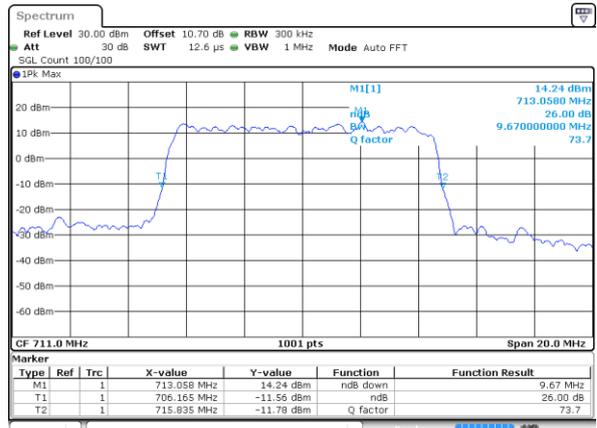
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



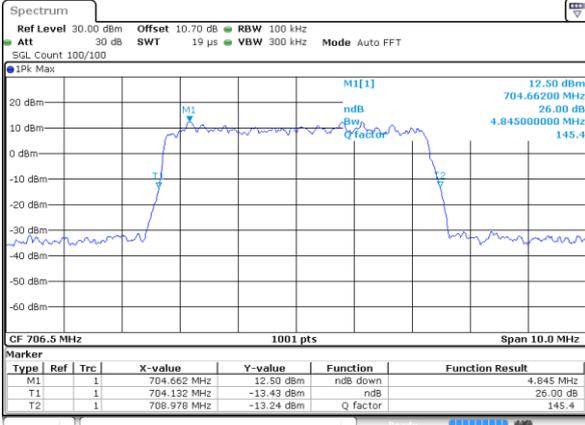
Highest Channel / 10MHz / 16QAM





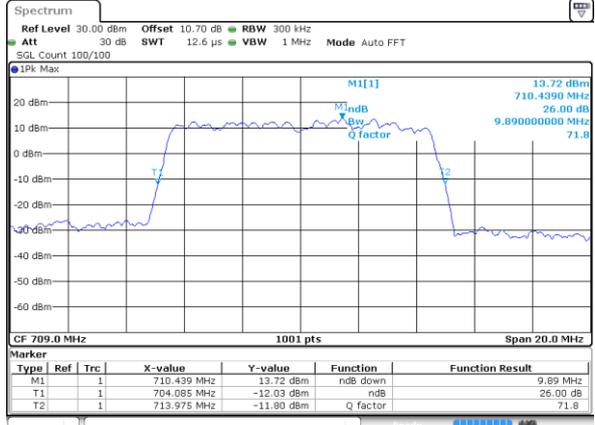
LTE Band 17

Lowest Channel / 5MHz / 64QAM



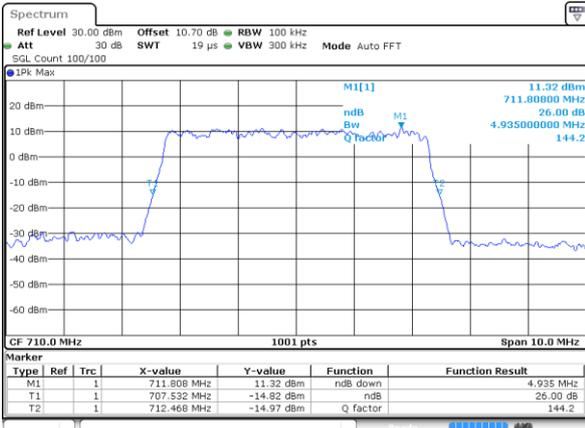
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Lowest Channel / 10MHz / 64QAM



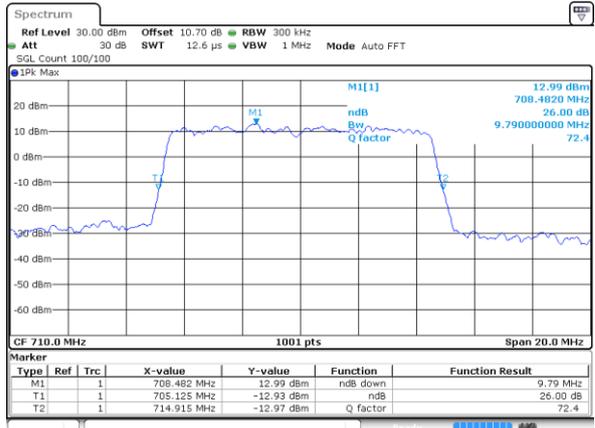
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Middle Channel / 5MHz / 64QAM



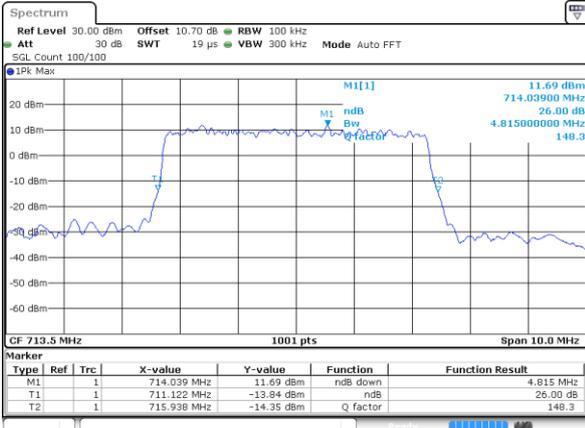
Date: 6 JAN 2020 10:22:51

Middle Channel / 10MHz / 64QAM



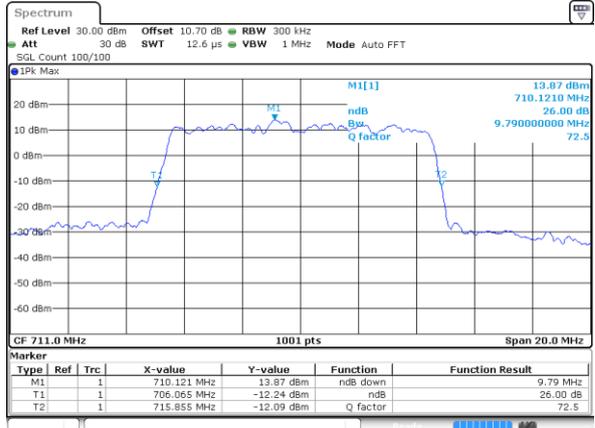
Date: 6 JAN 2020 10:30:09

Highest Channel / 5MHz / 64QAM



Date: 6 JAN 2020 10:23:56

Highest Channel / 10MHz / 64QAM



Date: 6 JAN 2020 10:31:13



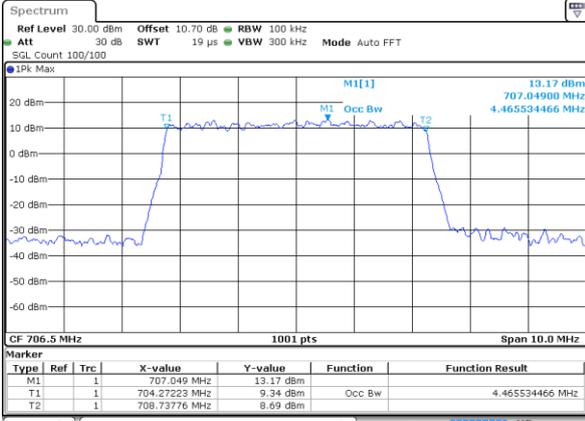
**Occupied Bandwidth**

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	-	-	-	-	4.47	4.49	8.95	9.01	-	-	-	-
Middle CH	-	-	-	-	4.50	4.46	9.01	9.03	-	-	-	-
Highest CH	-	-	-	-	4.50	4.48	9.03	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	-	-	-	-	4.50	-	8.97	-	-	-	-	-
Middle CH	-	-	-	-	4.51	-	8.99	-	-	-	-	-
Highest CH	-	-	-	-	4.51	-	8.95	-	-	-	-	-



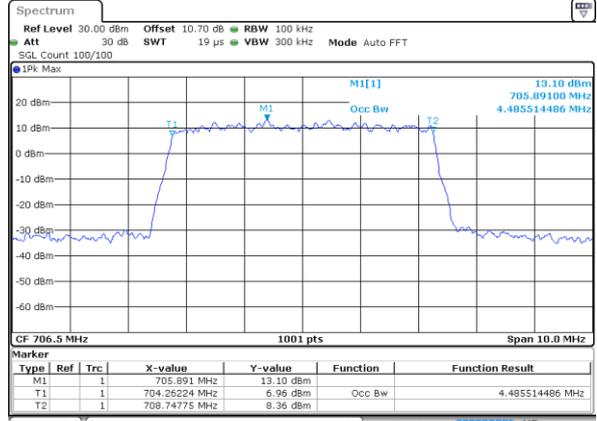
LTE Band 17

Lowest Channel / 5MHz / QPSK



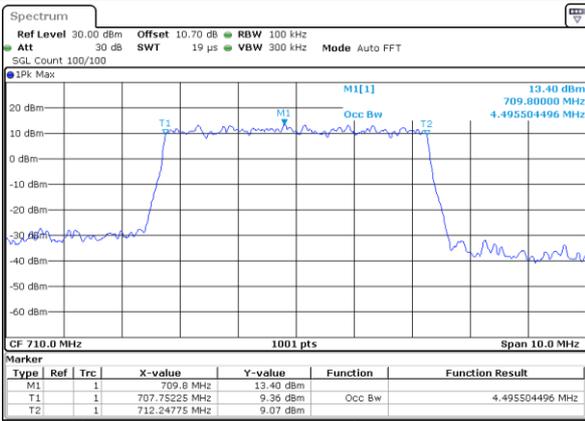
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Lowest Channel / 5MHz / 16QAM



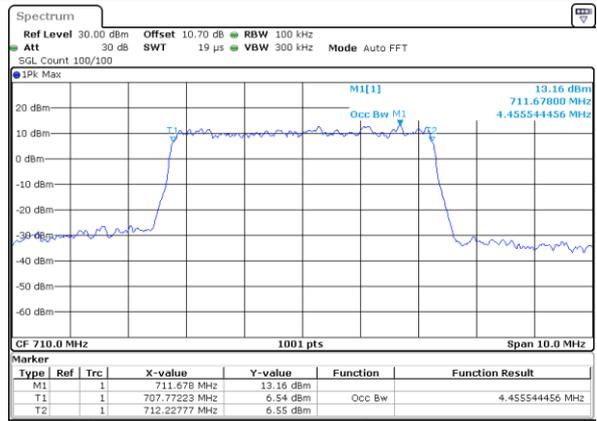
Date: 6 JAN 2020 09:50:36

Middle Channel / 5MHz / QPSK



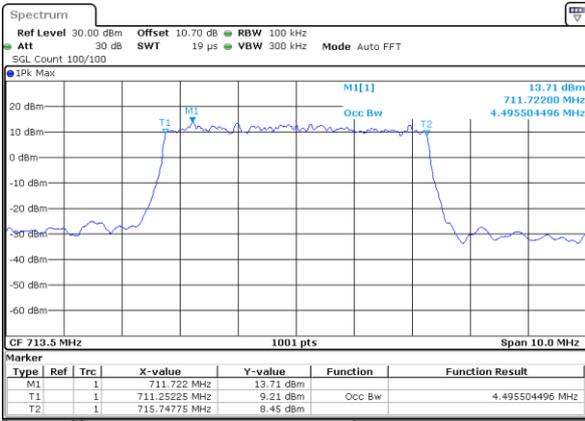
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Middle Channel / 5MHz / 16QAM



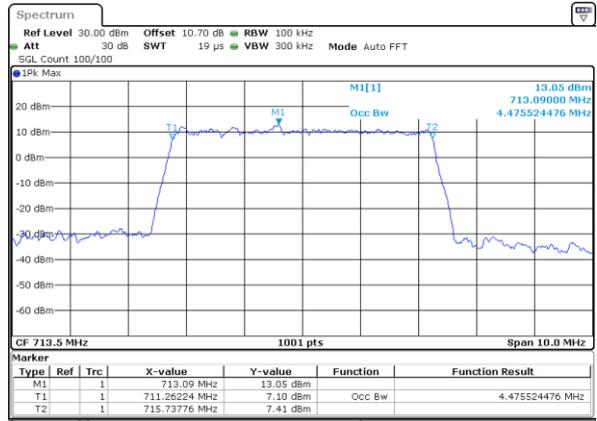
Date: 6 JAN 2020 09:56:50

Highest Channel / 5MHz / QPSK



Date: 6 JAN 2020 09:58:46

Highest Channel / 5MHz / 16QAM

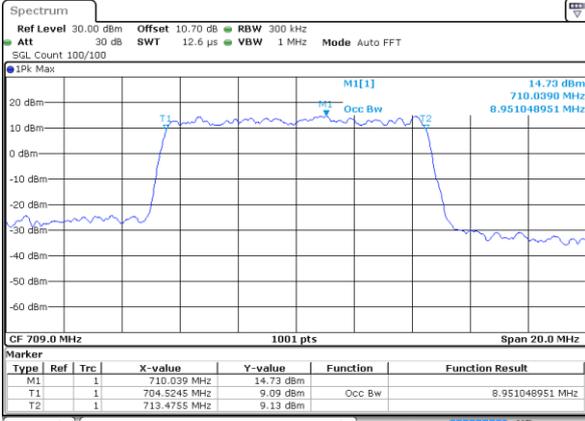


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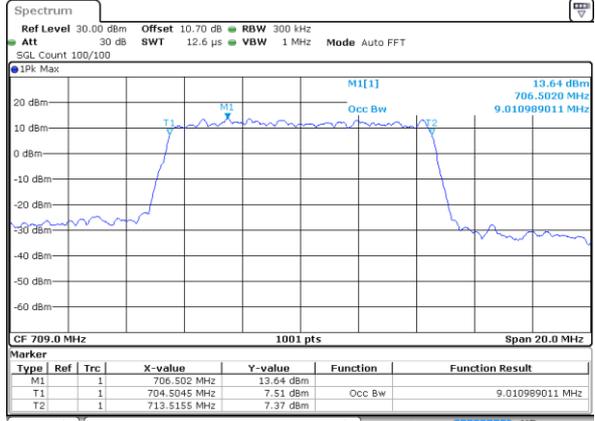
LTE Band 17

Lowest Channel / 10MHz / QPSK



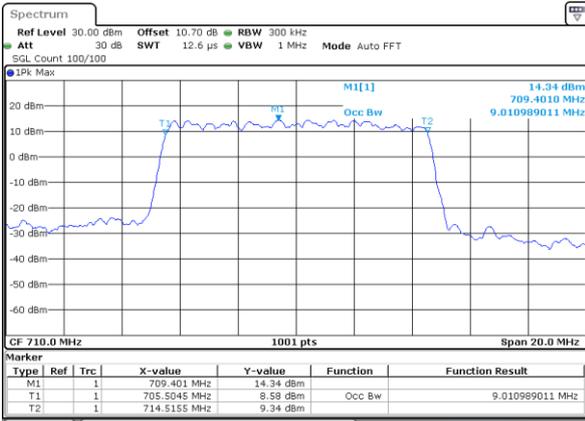
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Lowest Channel / 10MHz / 16QAM



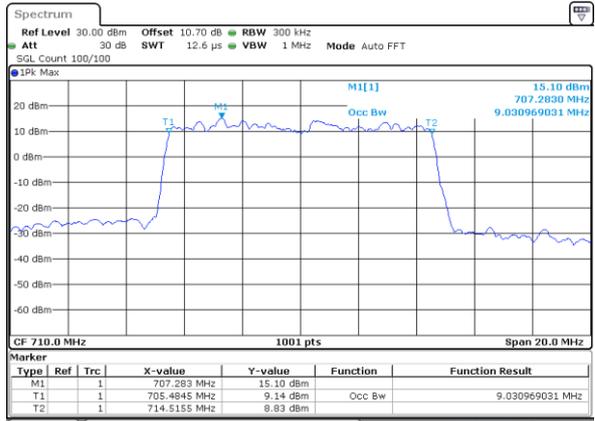
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Middle Channel / 10MHz / QPSK



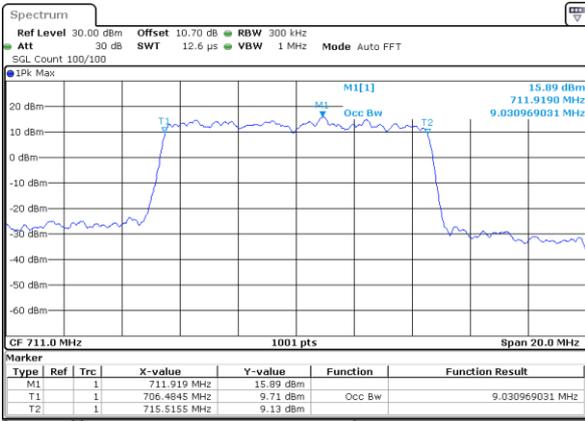
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Middle Channel / 10MHz / 16QAM



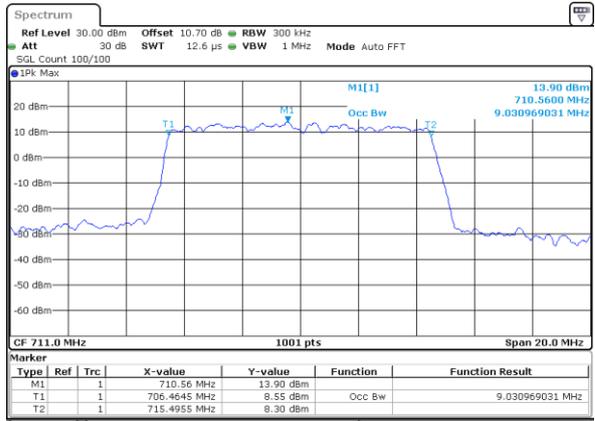
Date: 6 JAN 2020 10:11:24

Highest Channel / 10MHz / QPSK



Date: 6 JAN 2020 10:13:19

Highest Channel / 10MHz / 16QAM

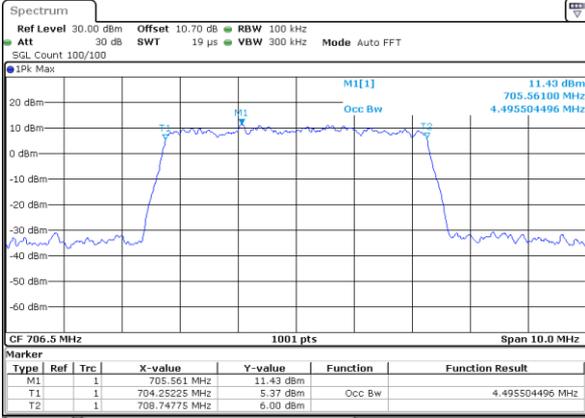


Date: 6 JAN 2020 10:13:32



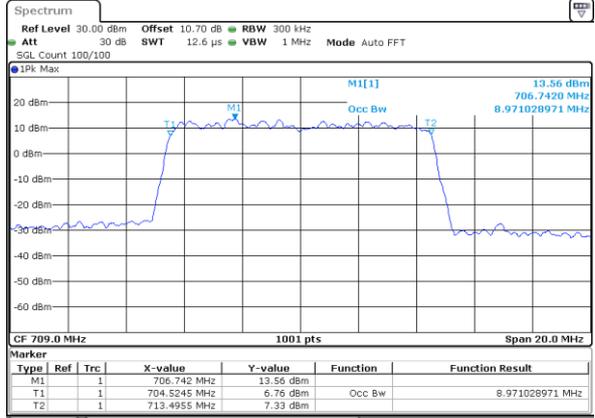
LTE Band 17

Lowest Channel / 5MHz / 64QAM



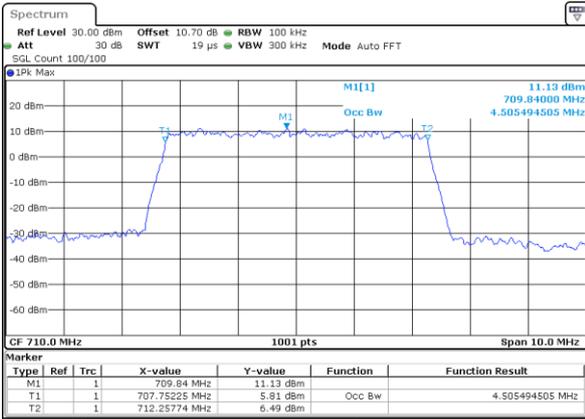
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Lowest Channel / 10MHz / 64QAM



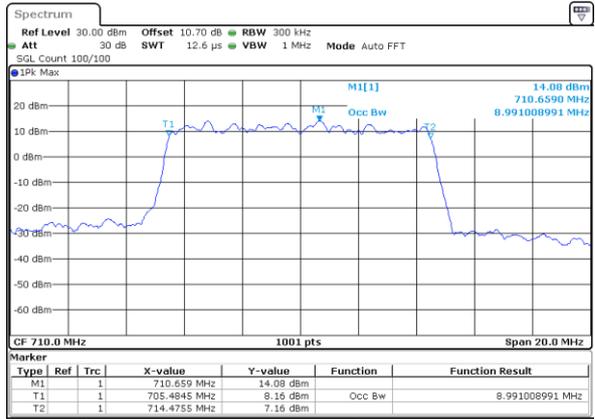
Date: 6 JAN 2020 10:26:51

Middle Channel / 5MHz / 64QAM



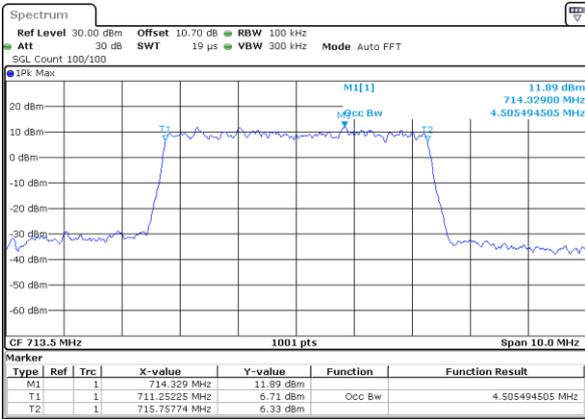
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Middle Channel / 10MHz / 64QAM



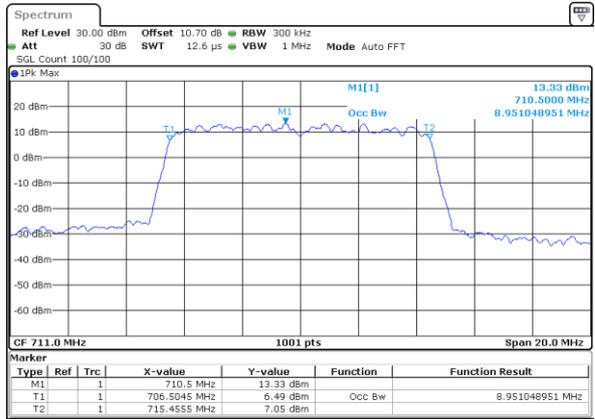
Date: 6 JAN 2020 10:29:57

Highest Channel / 5MHz / 64QAM



Date: 6 JAN 2020 10:23:43

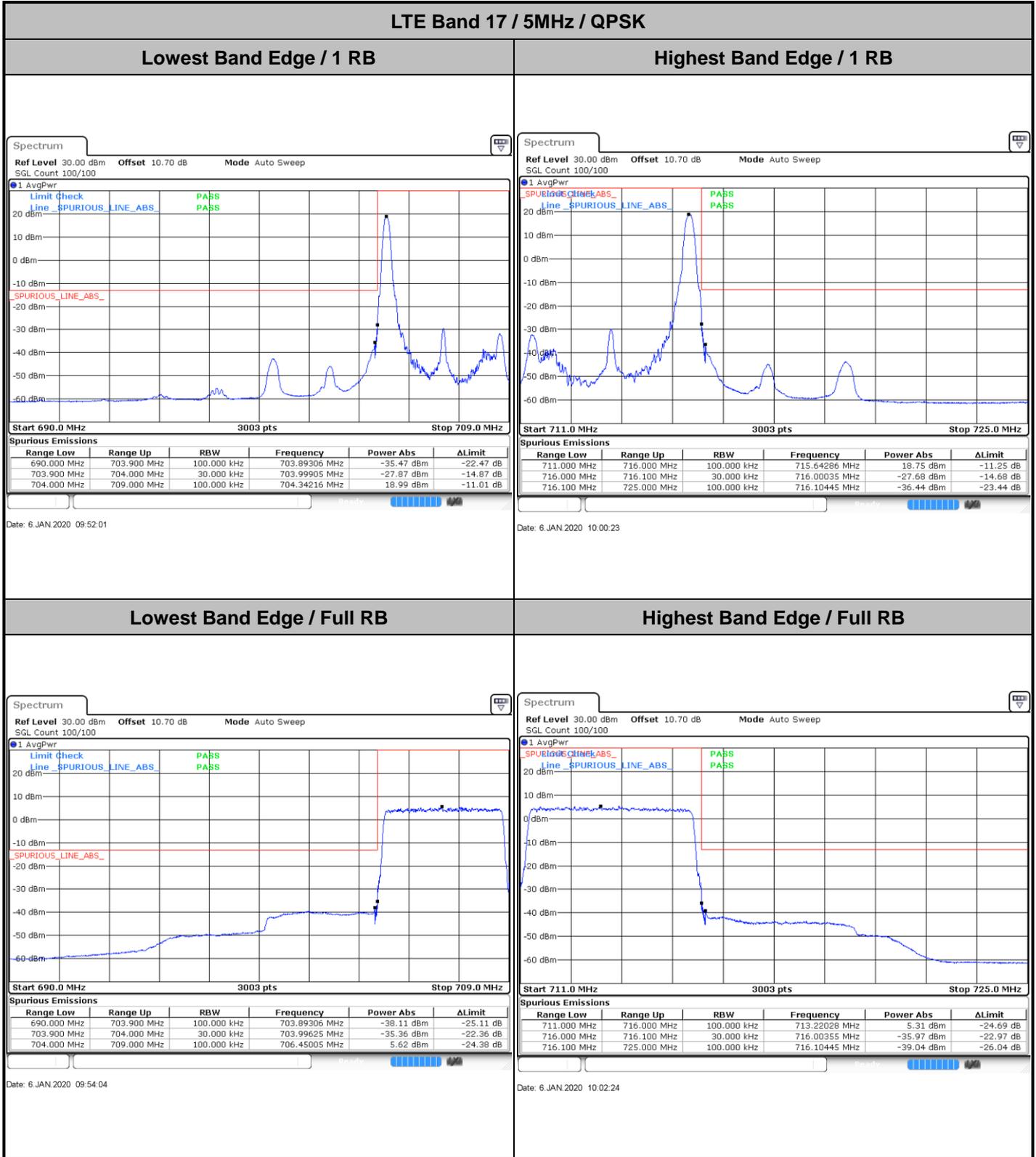
Highest Channel / 10MHz / 64QAM



Date: 6 JAN 2020 10:31:00

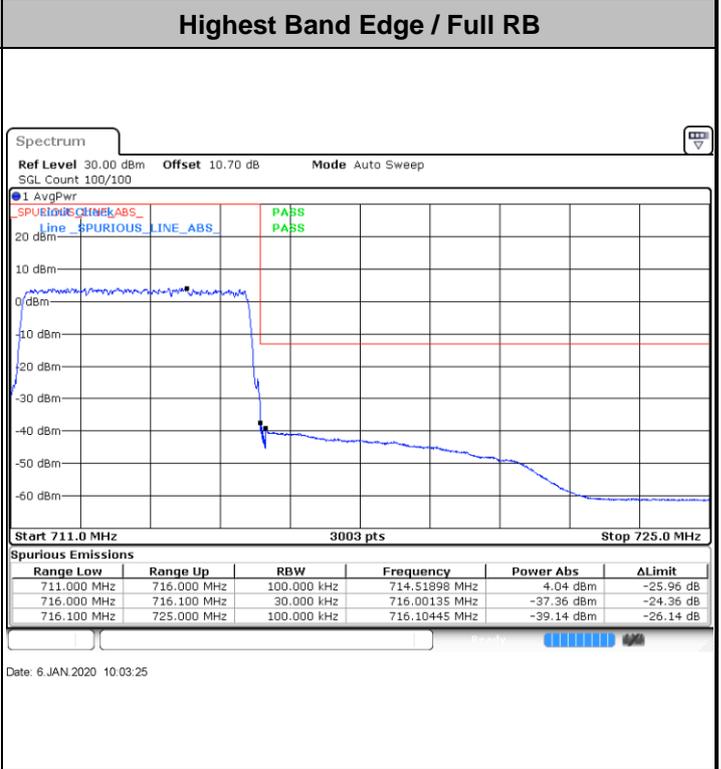
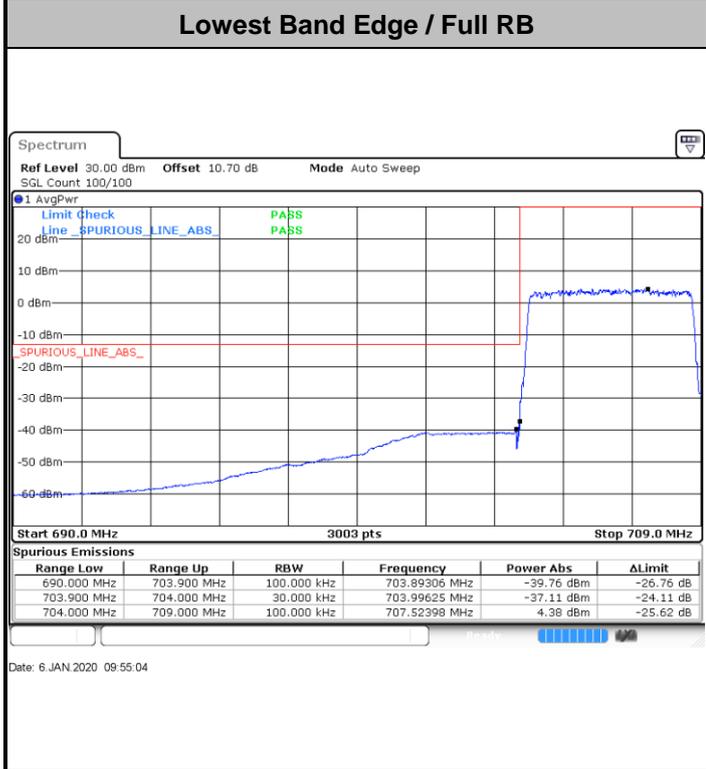
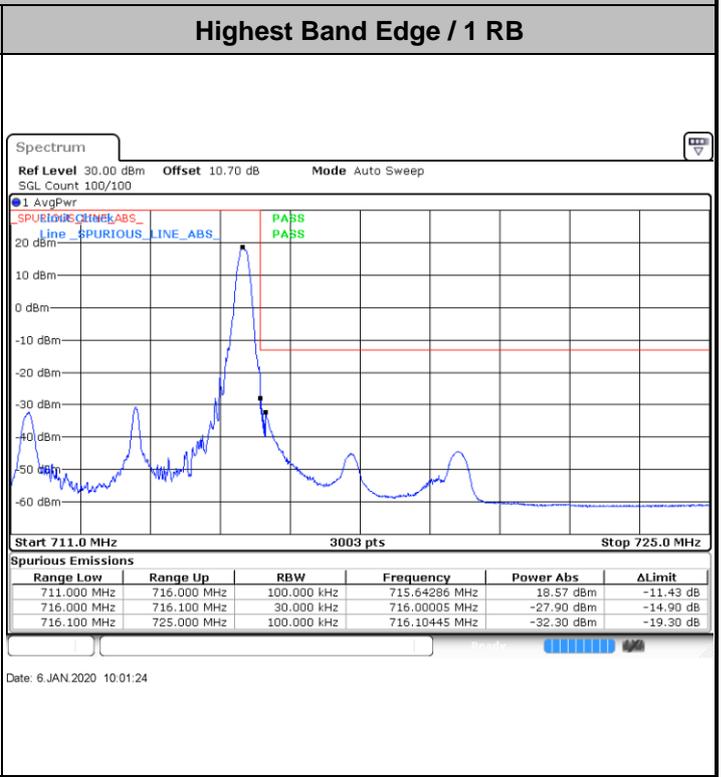
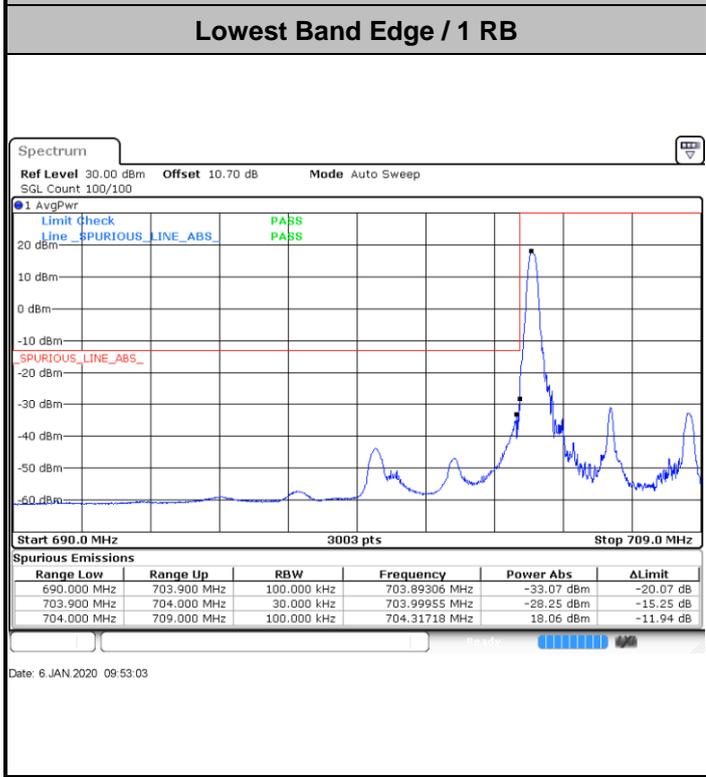


# Conducted Band Edge





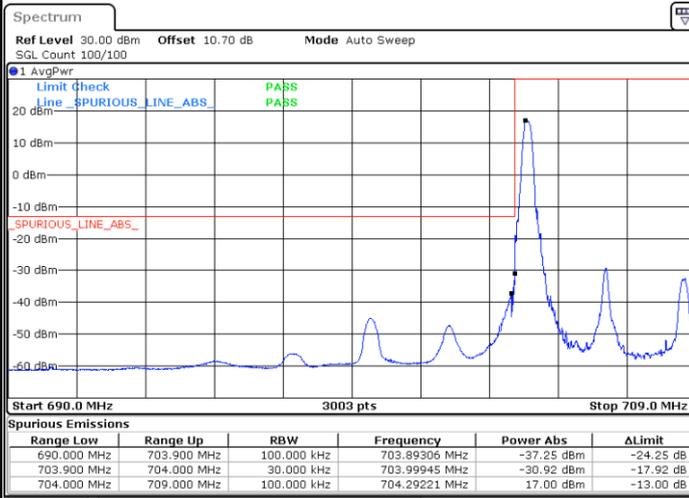
**LTE Band 17 / 5MHz / 16QAM**





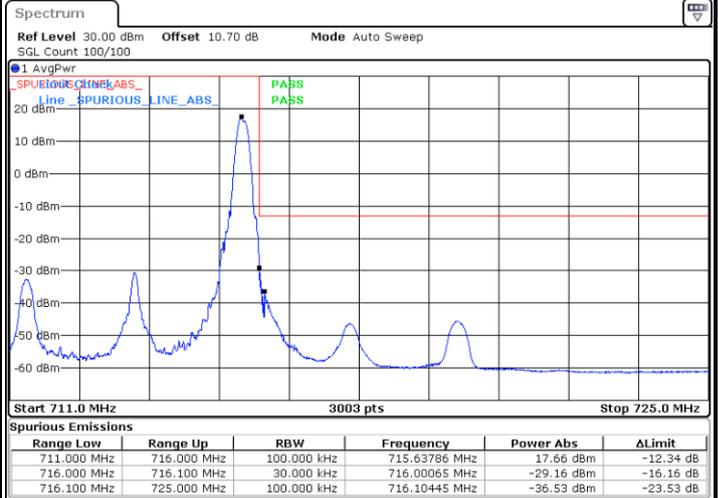
LTE Band 17 / 5MHz / 64QAM

Lowest Band Edge / 1 RB



Date: 6 JAN 2020 10:20:46

Highest Band Edge / 1 RB



Date: 6 JAN 2020 10:24:56

Lowest Band Edge / Full RB



Date: 6 JAN 2020 10:21:47

Highest Band Edge / Full RB

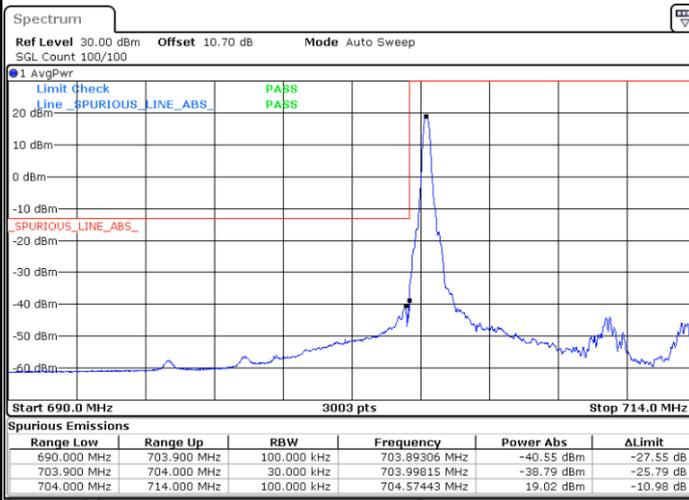


Date: 6 JAN 2020 10:25:57



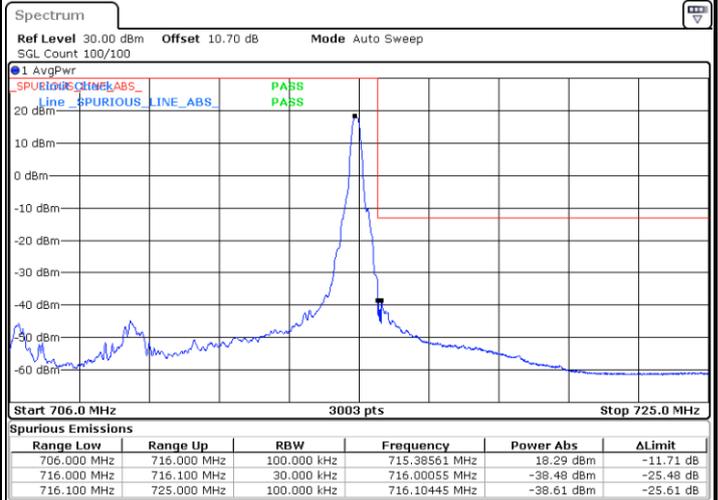
LTE Band 17 / 10MHz / QPSK

Lowest Band Edge / 1 RB



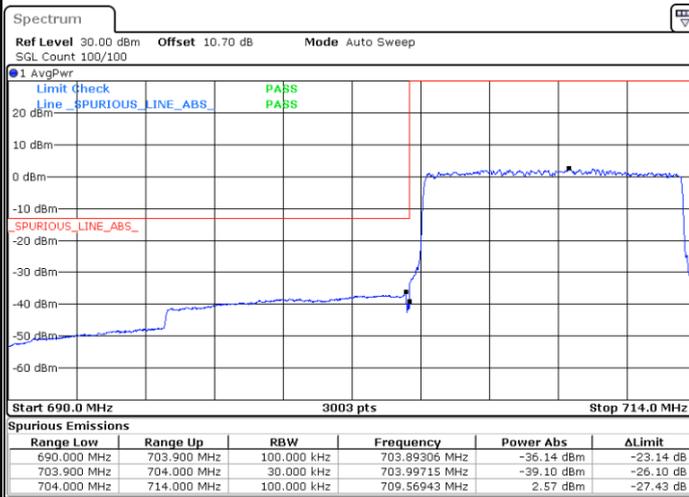
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Highest Band Edge / 1 RB



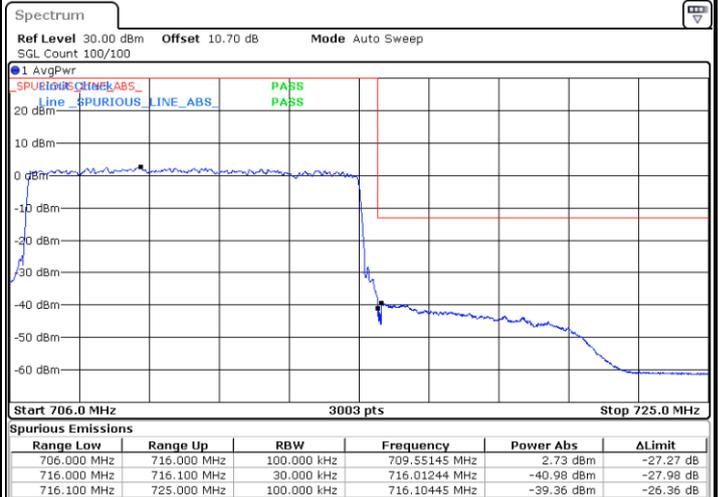
Date: 6 JAN 2020 10:14:56

Lowest Band Edge / Full RB



Date: 6 JAN 2020 10:08:38

Highest Band Edge / Full RB

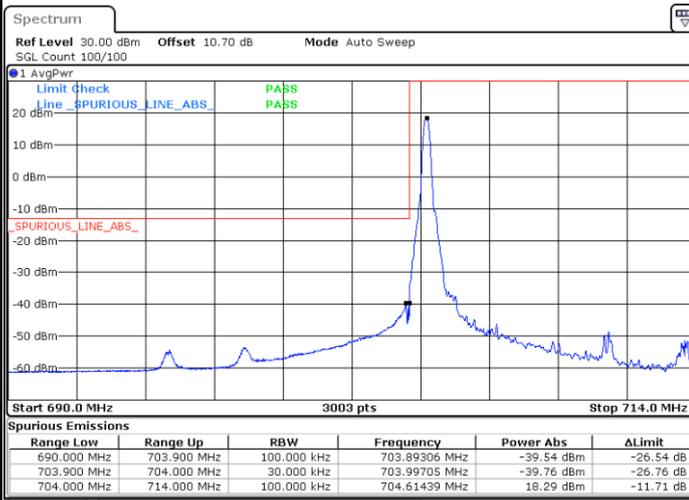


Date: 6 JAN 2020 10:16:58



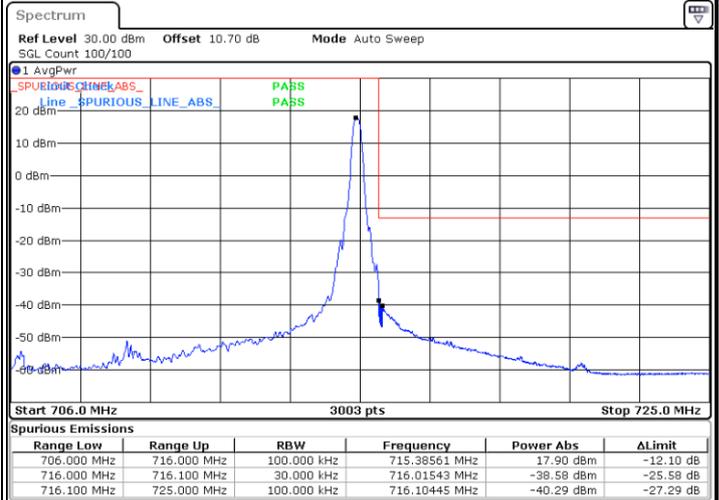
LTE Band 17 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



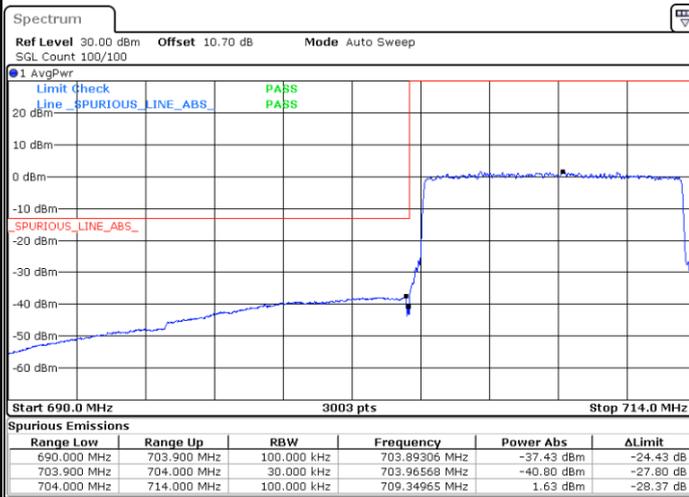
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Highest Band Edge / 1 RB



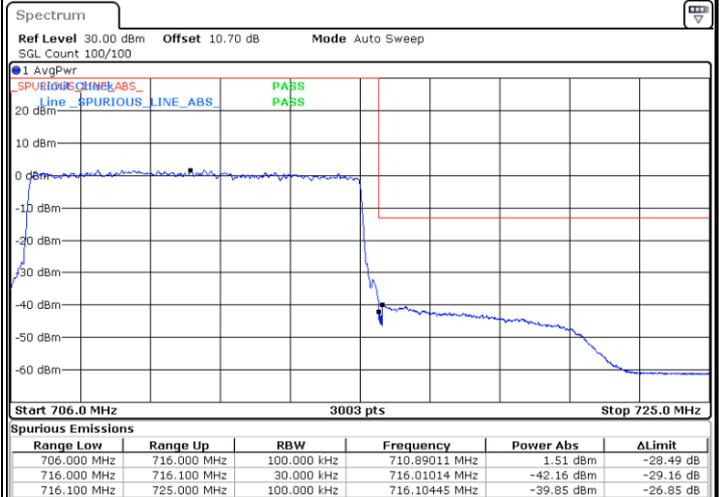
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Lowest Band Edge / Full RB



Date: 6 JAN 2020 10:09:39

Highest Band Edge / Full RB

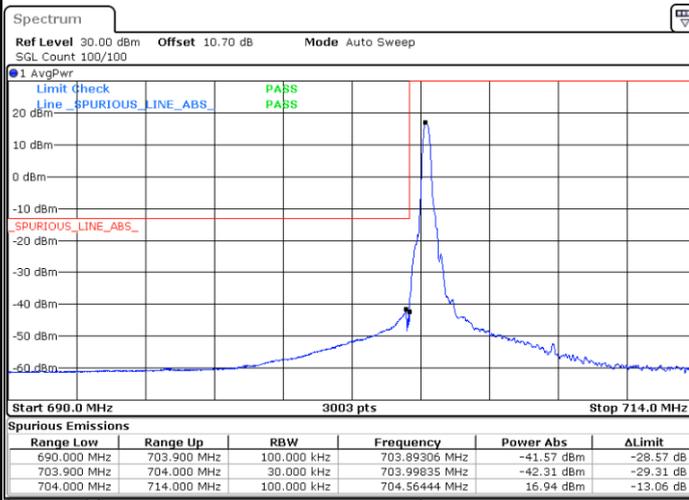


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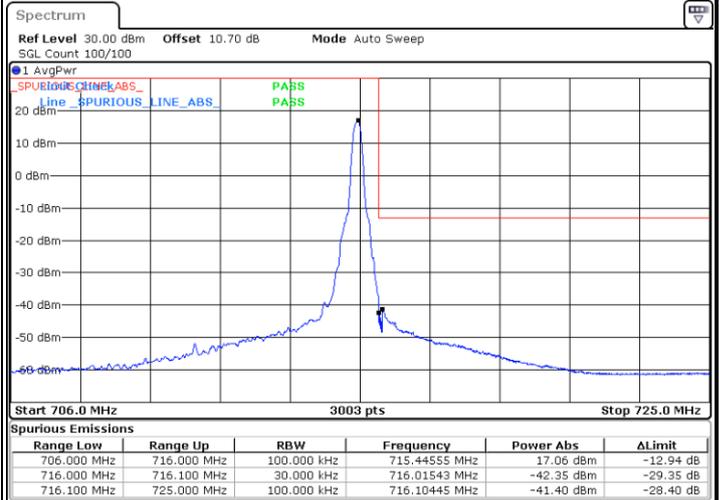
LTE Band 17 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



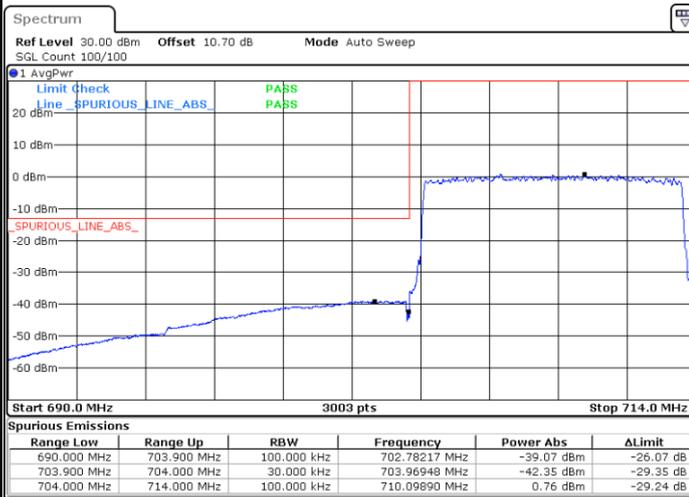
Date: 6 JAN 2020 10:28:03

Highest Band Edge / 1 RB



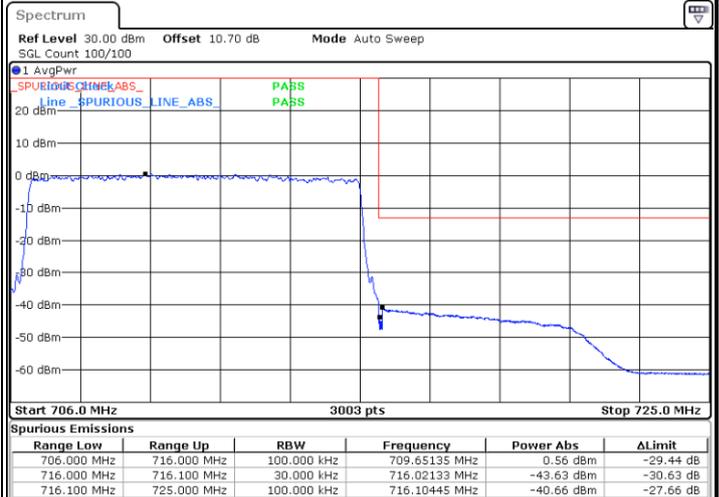
Date: 6 JAN 2020 10:32:13

Lowest Band Edge / Full RB



Date: 6 JAN 2020 10:29:04

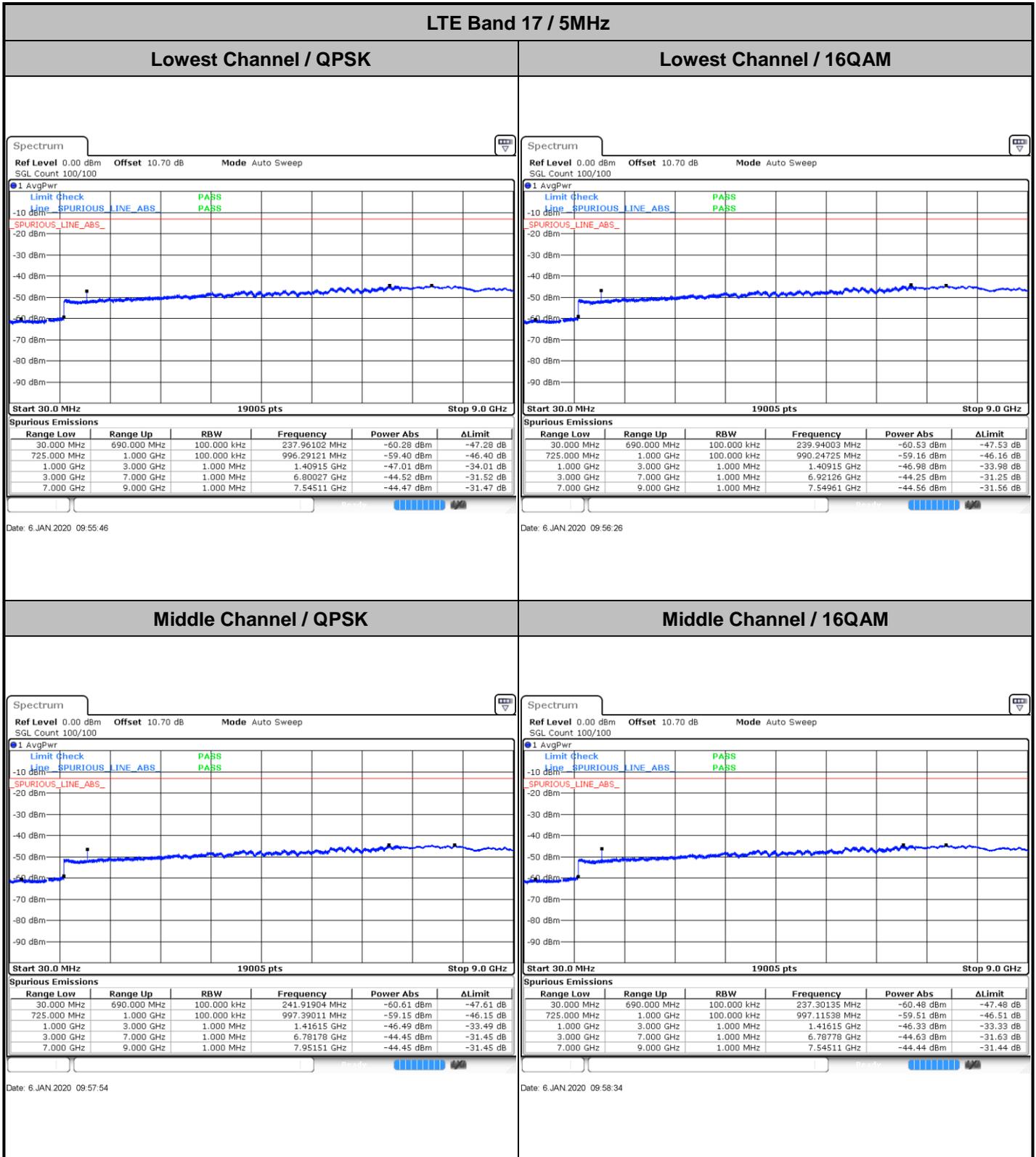
Highest Band Edge / Full RB



Date: 6 JAN 2020 10:33:14



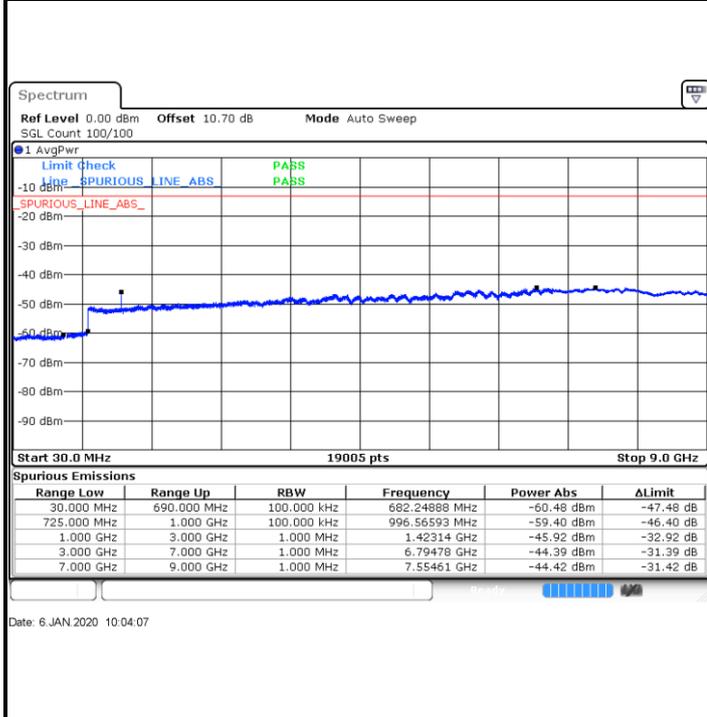
# Conducted Spurious Emission



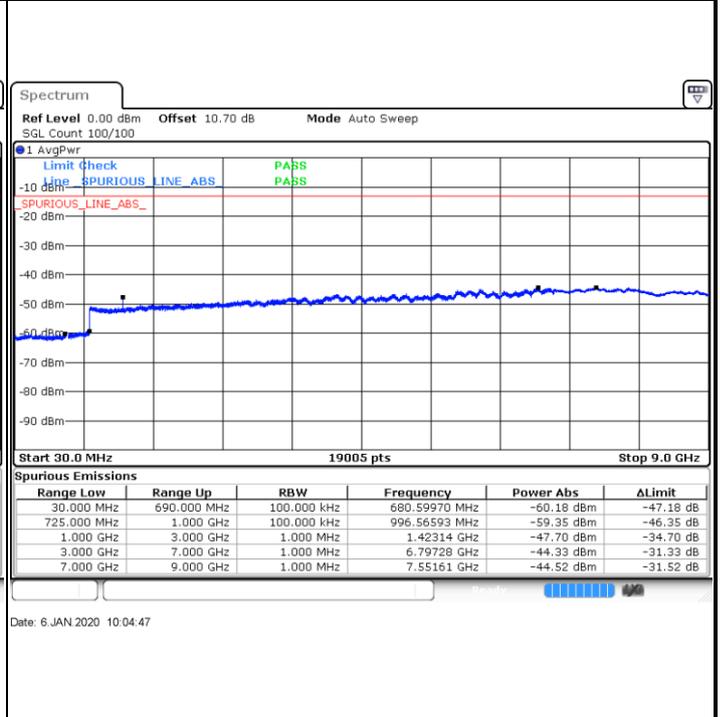


**LTE Band 17 / 5MHz**

**Highest Channel / QPSK**

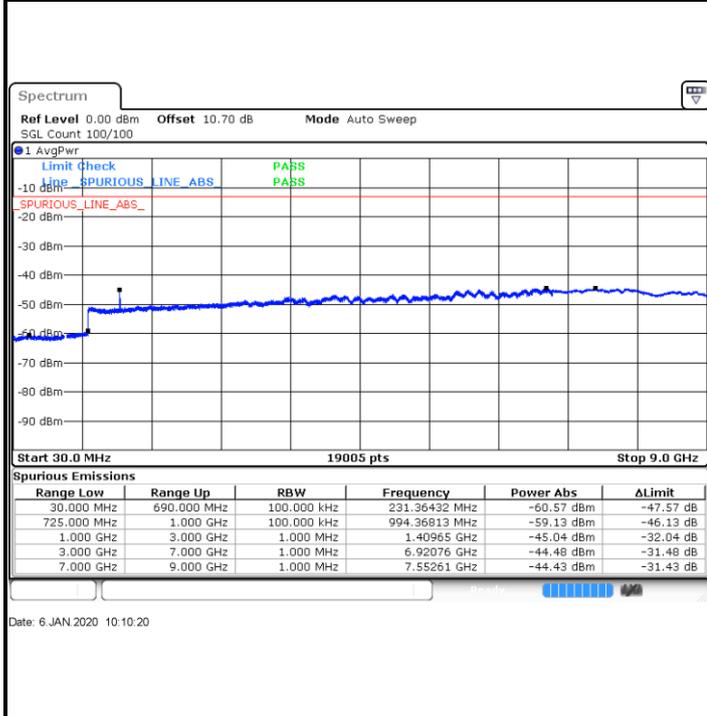


**Highest Channel / 16QAM**

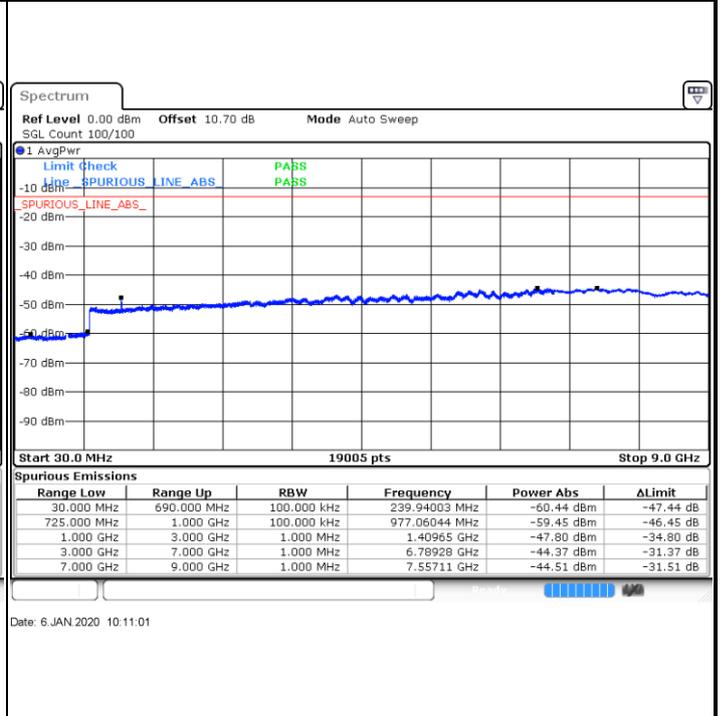


**LTE Band 17 / 10MHz**

**Lowest Channel / QPSK**



**Lowest Channel / 16QAM**

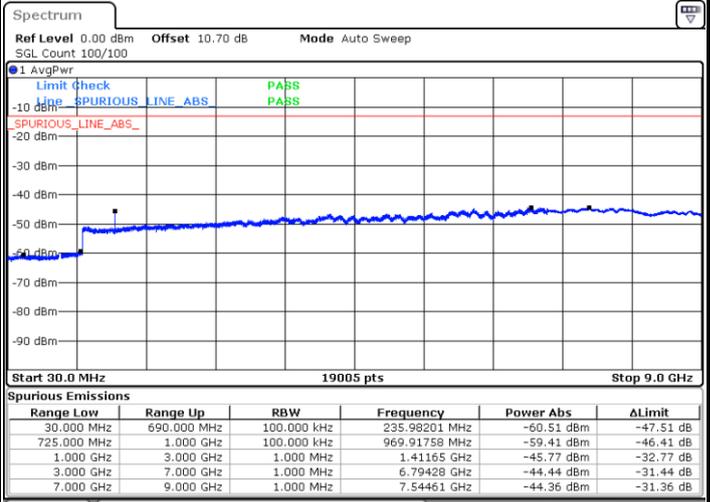
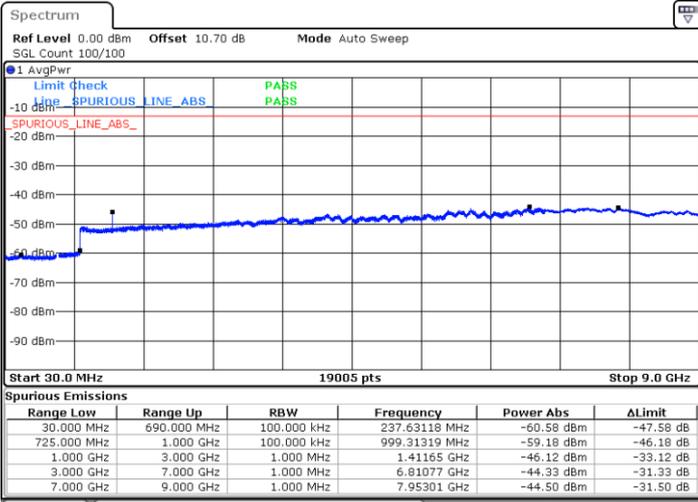




LTE Band 17 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

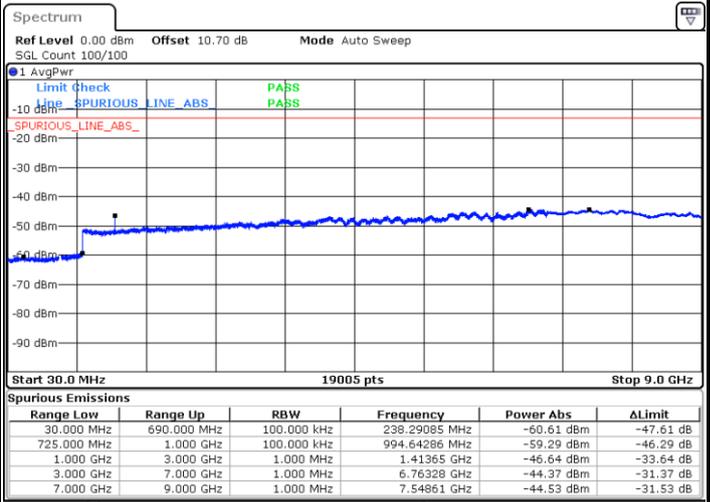
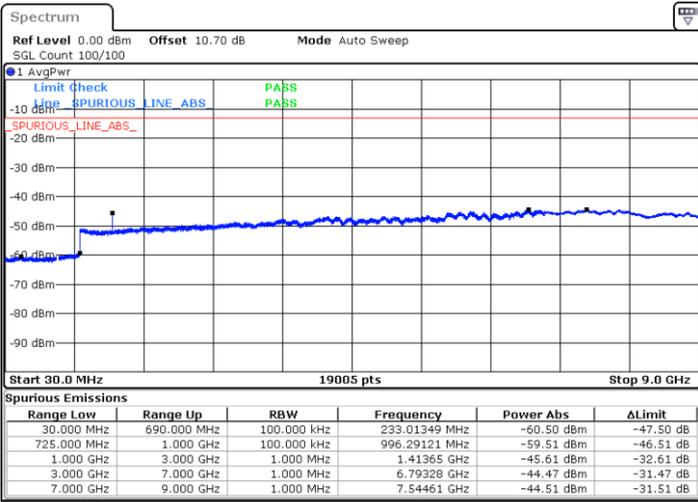


Date: 6 JAN 2020 10:12:28

Date: 6 JAN 2020 10:13:08

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 6 JAN 2020 10:18:40

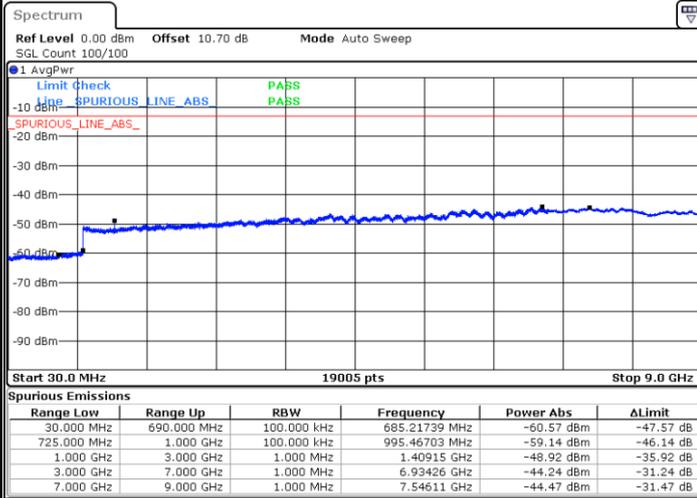
Date: 6 JAN 2020 10:19:21



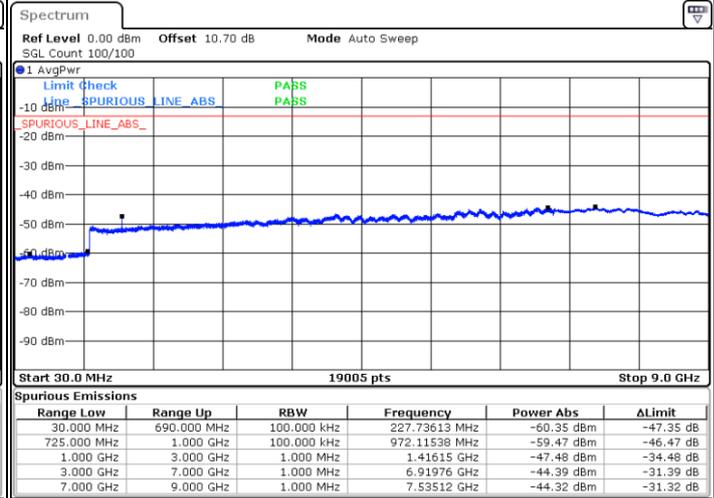
LTE Band 17 / 5MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

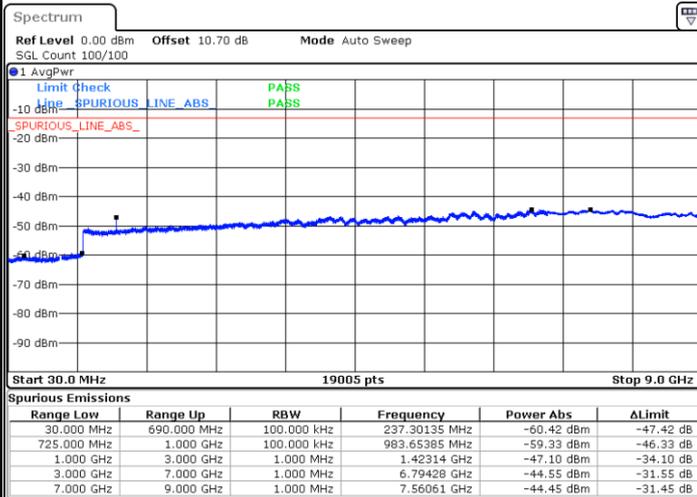


Date: 6 JAN 2020 10:22:28



Date: 6 JAN 2020 10:23:32

Highest Channel / 64QAM



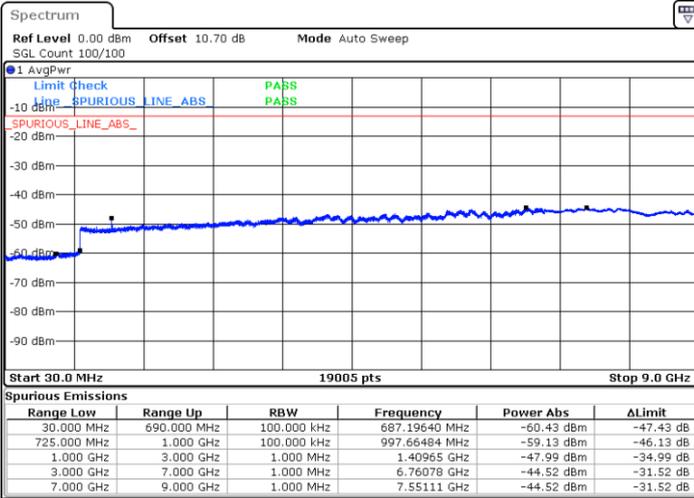
Date: 6 JAN 2020 10:26:38



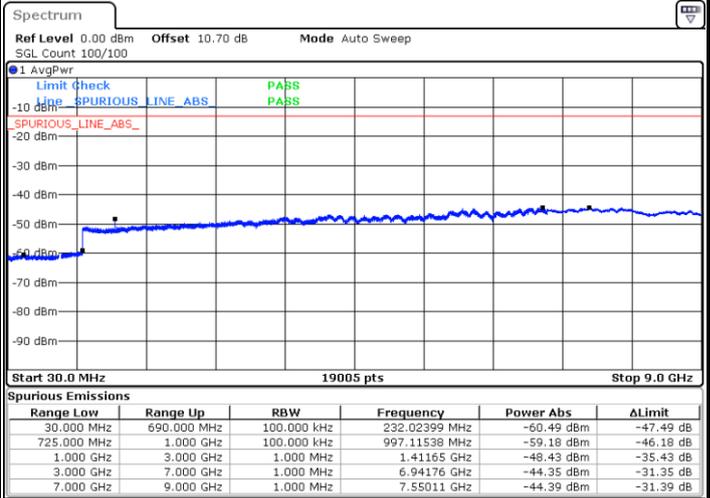
LTE Band 17 / 10MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

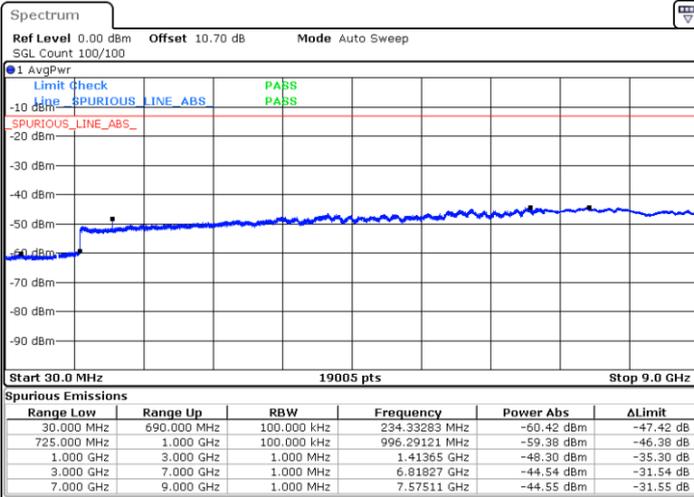


Date: 6 JAN 2020 10:29:45



Date: 6 JAN 2020 10:30:49

Highest Channel / 64QAM



Date: 6 JAN 2020 10:33:55



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	0.0061	PASS
40	Normal Voltage	0.0173	
30	Normal Voltage	0.0248	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0234	
0	Normal Voltage	0.0206	
-10	Normal Voltage	0.0037	
-20	Normal Voltage	0.0037	
-30	Normal Voltage	0.0046	
20	Maximum Voltage	0.0111	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0068	

Note:

1. Normal Voltage =7.7 V. ; Battery End Point (BEP) =6.9 V. ; Maximum Voltage =8.5 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



# LTE Band 25

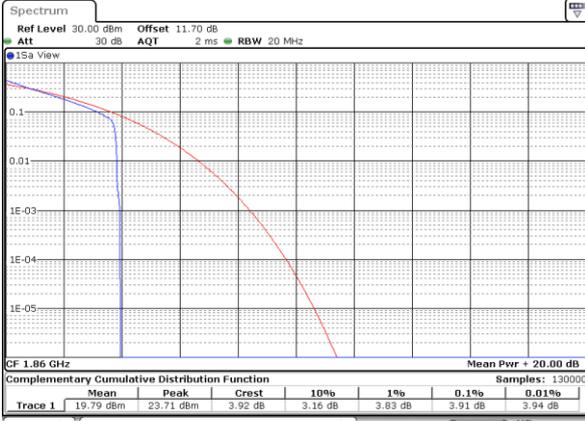
## Peak-to-Average Ratio

Mode	LTE Band 25 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.91	4.87	5.48	6.06	<b>PASS</b>
Middle CH	3.74	4.90	4.58	6.00	
Highest CH	3.48	5.04	4.61	5.74	
Mode	LTE Band 25 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.64	6.49	-	-	<b>PASS</b>
Middle CH	6.03	6.41	-	-	
Highest CH	6.29	6.61	-	-	



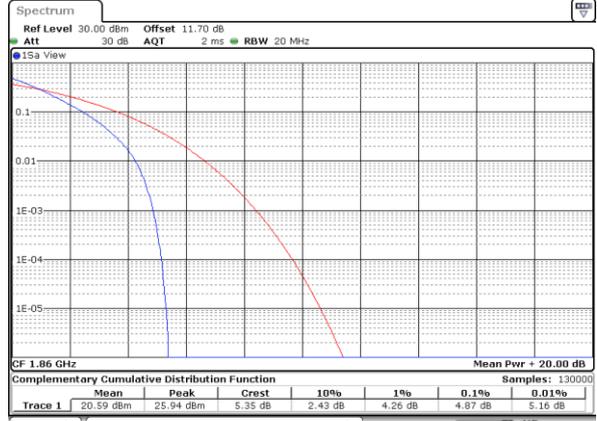
LTE Band 25 / 20MHz / QPSK

Lowest Channel / 1RB



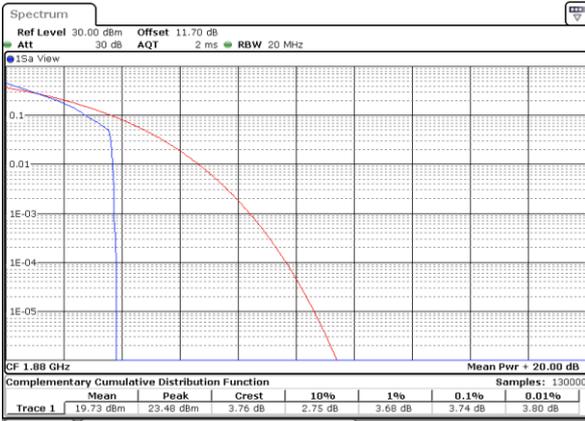
Date: 6 JAN 2020 14:32:07

Lowest Channel / Full RB



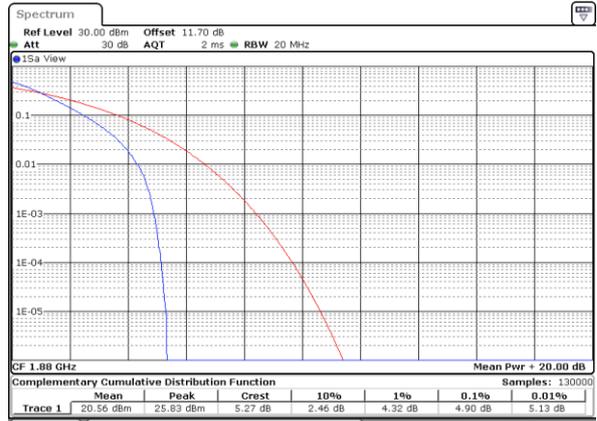
Date: 6 JAN 2020 14:32:17

Middle Channel / 1RB



Date: 6 JAN 2020 14:32:48

Middle Channel / Full RB



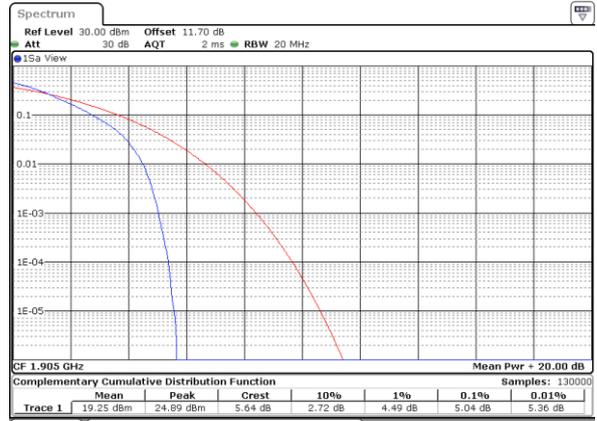
Date: 6 JAN 2020 14:32:59

Highest Channel / 1RB



Date: 7 JAN 2020 07:05:41

Highest Channel / Full RB

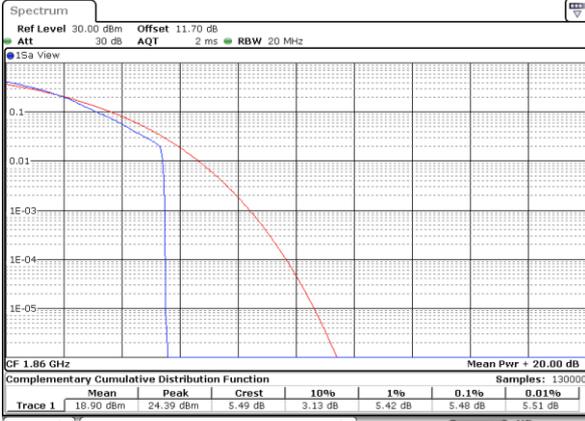


Date: 7 JAN 2020 07:04:39



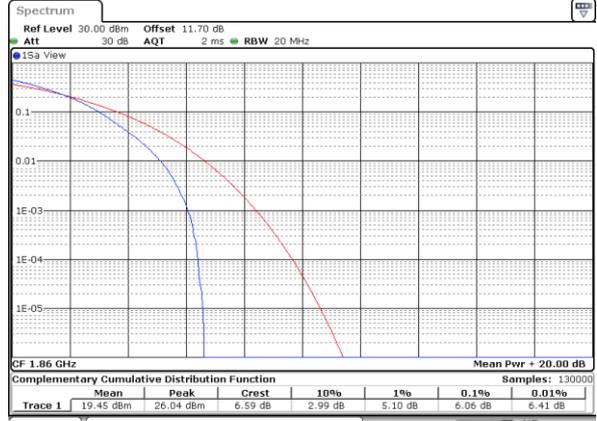
LTE Band 25 / 20MHz / 16QAM

Lowest Channel / 1RB



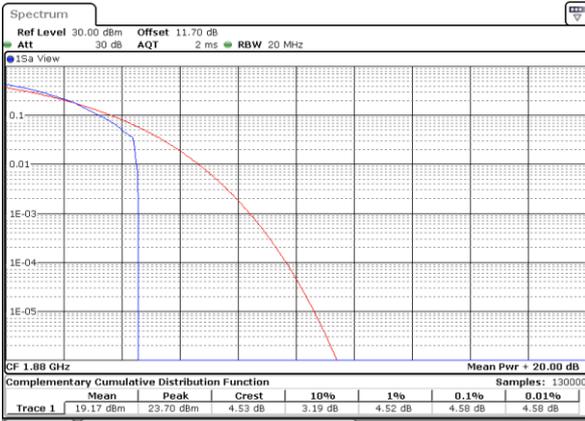
Date: 6 JAN 2020 14:31:28

Lowest Channel / Full RB



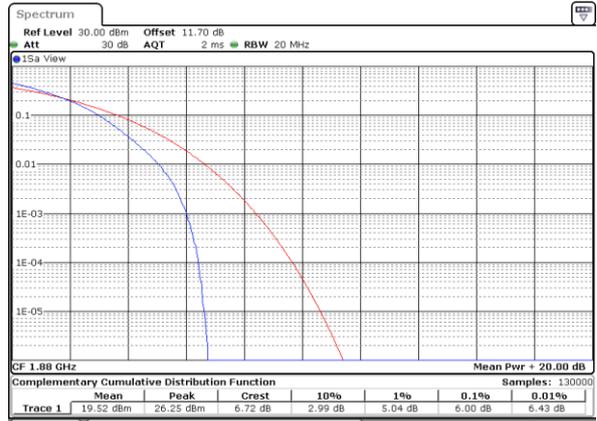
Date: 6 JAN 2020 14:31:38

Middle Channel / 1RB



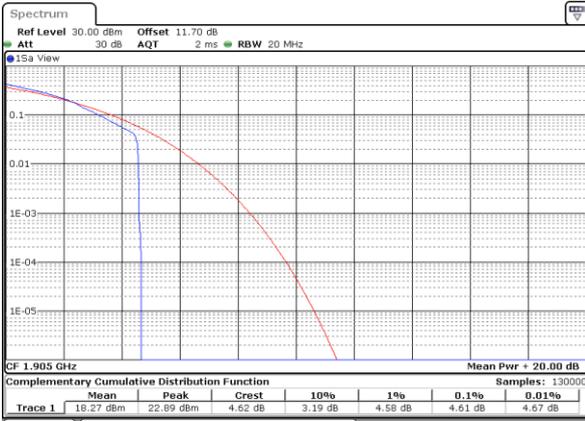
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Middle Channel / Full RB



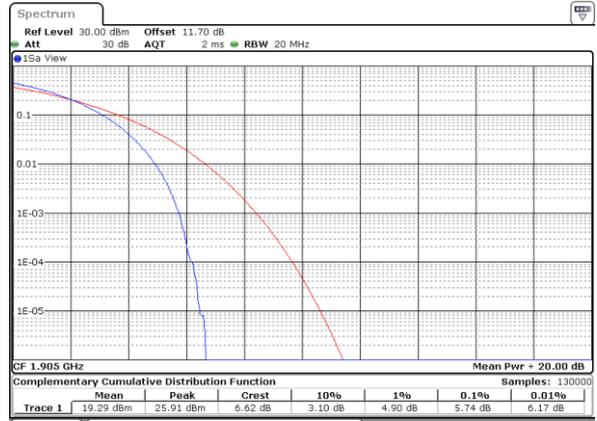
Date: 6 JAN 2020 14:32:38

Highest Channel / 1RB



Date: 6 JAN 2020 14:33:09

Highest Channel / Full RB

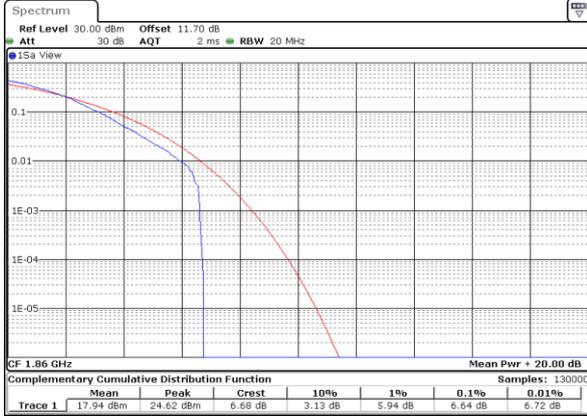


Date: 7 JAN 2020 07:04:17



LTE Band 25 / 20MHz / 64QAM

Lowest Channel / 1RB



Date: 6 JAN 2020 14:28:28

Lowest Channel / Full RB



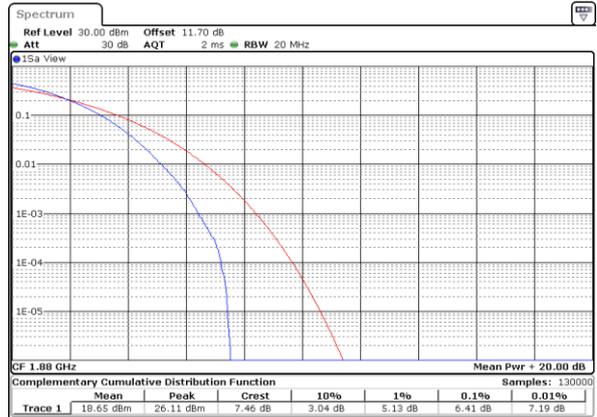
Date: 6 JAN 2020 14:29:08

Middle Channel / 1RB



Date: 6 JAN 2020 14:29:27

Middle Channel / Full RB



Date: 6 JAN 2020 14:29:40

Highest Channel / 1RB



Date: 6 JAN 2020 14:29:52

Highest Channel / Full RB



Date: 6 JAN 2020 14:30:04



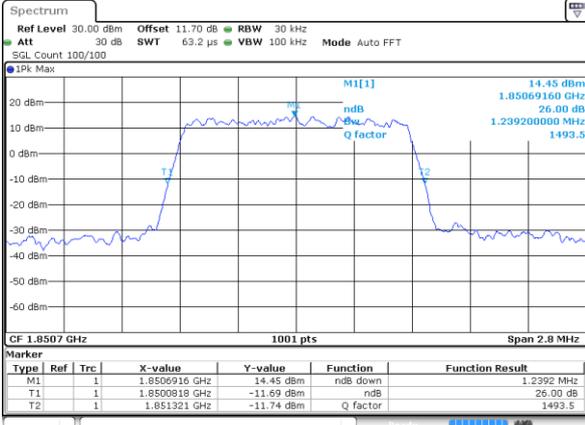
**26dB Bandwidth**

Mode	LTE Band 25 : 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	1.24	1.21	3.00	2.99	4.95	4.88	9.83	9.67	14.21	14.39	18.86	18.94
Middle CH	1.22	1.22	3.02	3.06	4.81	4.94	9.89	9.79	14.27	14.27	19.02	19.06
Highest CH	1.23	1.22	3.03	3.05	4.88	4.92	9.59	9.65	14.33	14.33	18.94	18.82
Mode	LTE Band 25 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.24	-	2.99	-	4.89	-	9.63	-	14.30	-	18.78	-
Middle CH	1.23	-	3.03	-	4.95	-	9.97	-	14.54	-	18.94	-
Highest CH	1.22	-	2.97	-	4.79	-	9.75	-	14.24	-	18.98	-



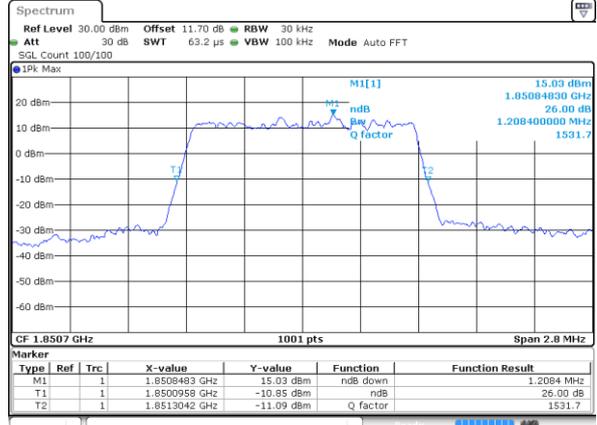
LTE Band 25

Lowest Channel / 1.4MHz / QPSK



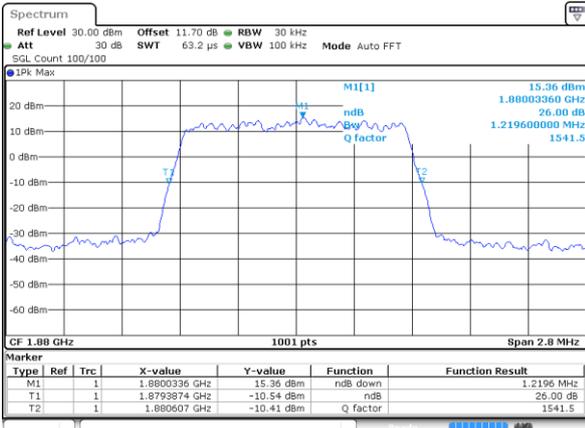
Date: 6 JAN 2020 10:53:26

Lowest Channel / 1.4MHz / 16QAM



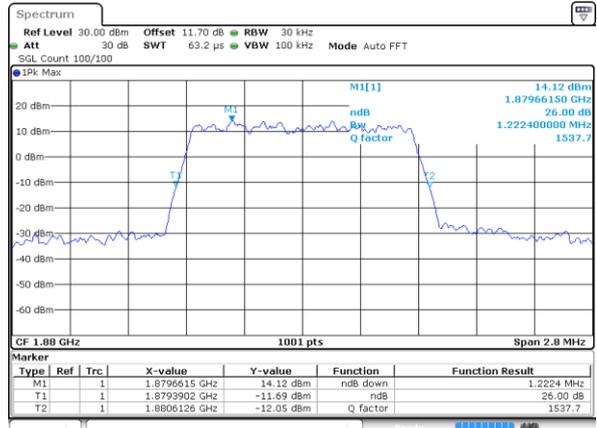
Date: 6 JAN 2020 10:53:38

Middle Channel / 1.4MHz / QPSK



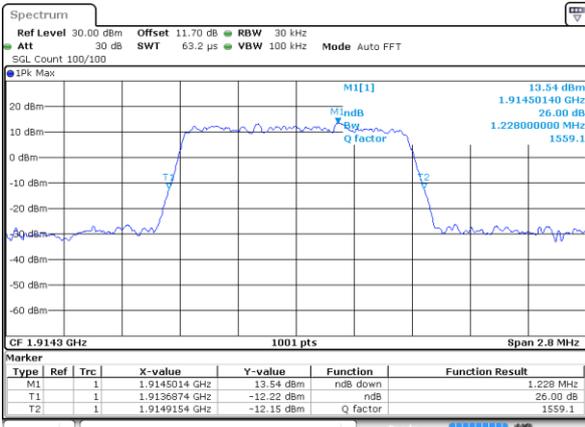
Date: 6 JAN 2020 10:59:52

Middle Channel / 1.4MHz / 16QAM



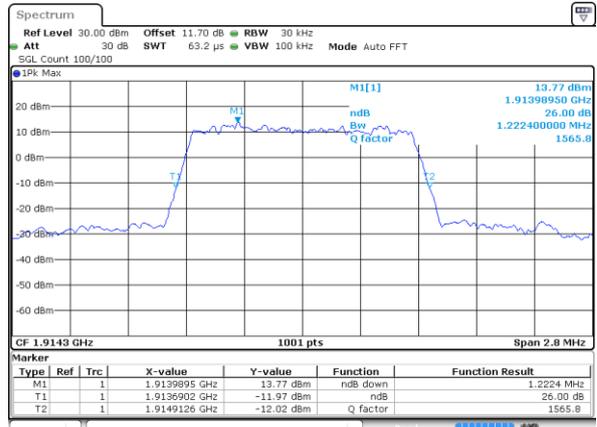
Date: 6 JAN 2020 11:00:04

Highest Channel / 1.4MHz / QPSK



Date: 6 JAN 2020 11:02:15

Highest Channel / 1.4MHz / 16QAM

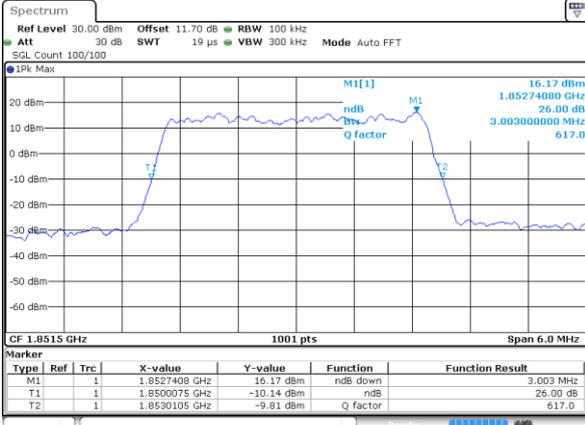


Date: 6 JAN 2020 11:02:03



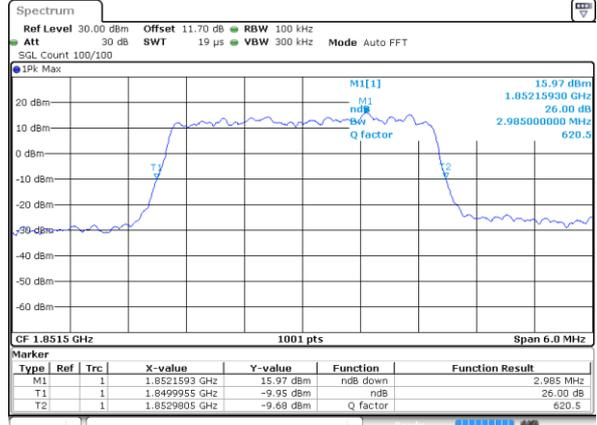
LTE Band 25

Lowest Channel / 3MHz / QPSK



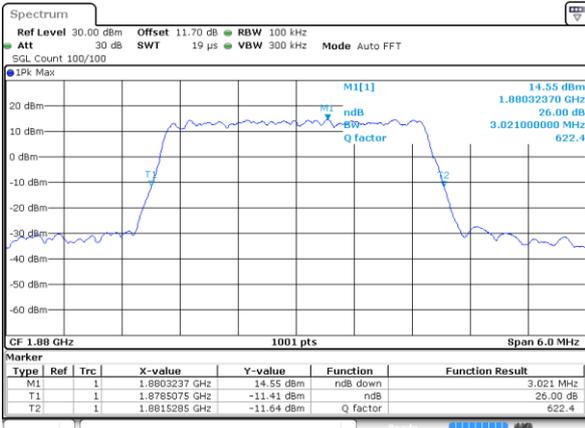
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Lowest Channel / 3MHz / 16QAM



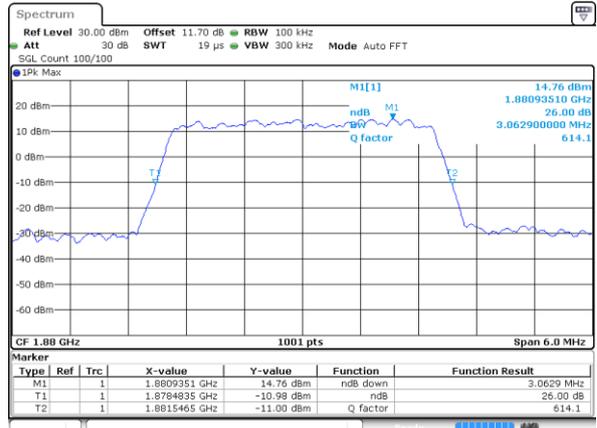
Date: 6 JAN 2020 11:24:00

Middle Channel / 3MHz / QPSK



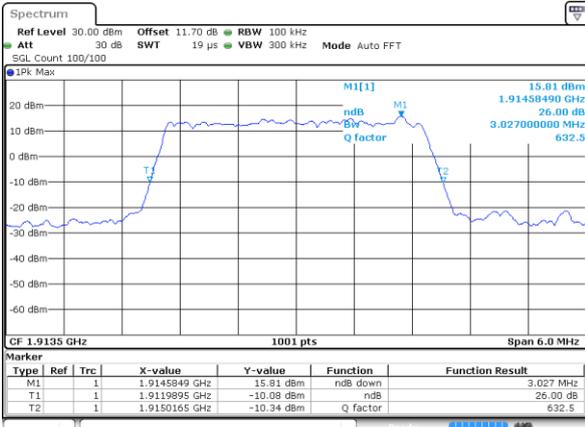
Date: 6 JAN 2020 11:30:02

Middle Channel / 3MHz / 16QAM



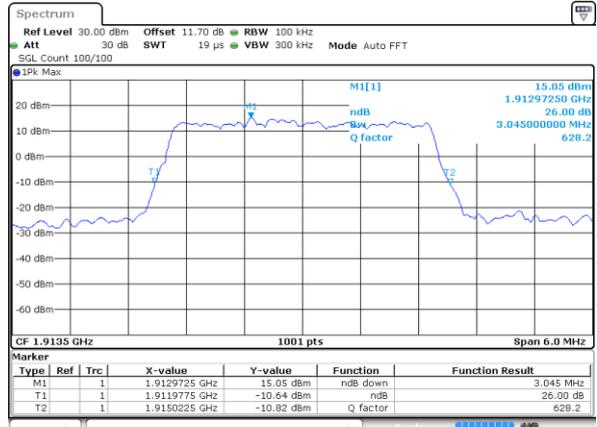
Date: 6 JAN 2020 11:30:15

Highest Channel / 3MHz / QPSK



Date: 6 JAN 2020 11:32:26

Highest Channel / 3MHz / 16QAM

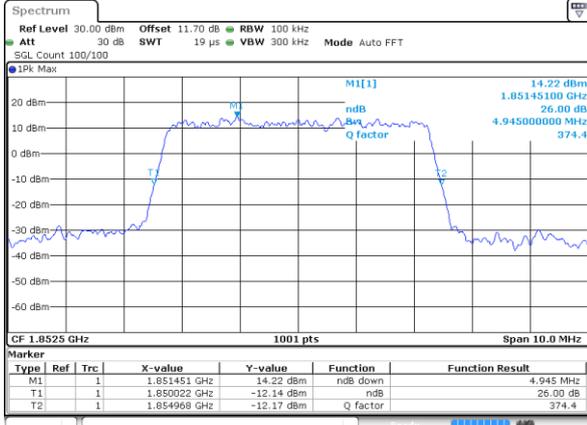


Date: 6 JAN 2020 11:32:14



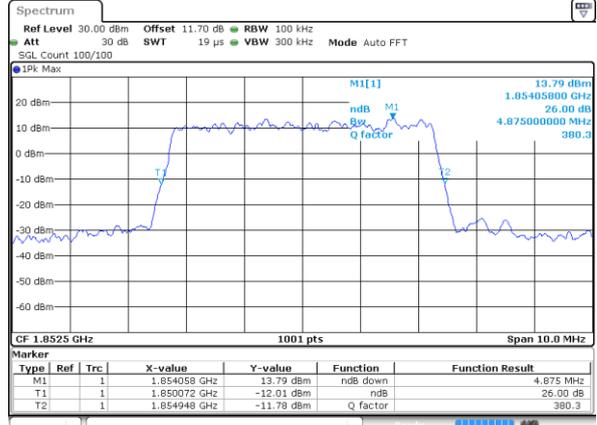
LTE Band 25

Lowest Channel / 5MHz / QPSK



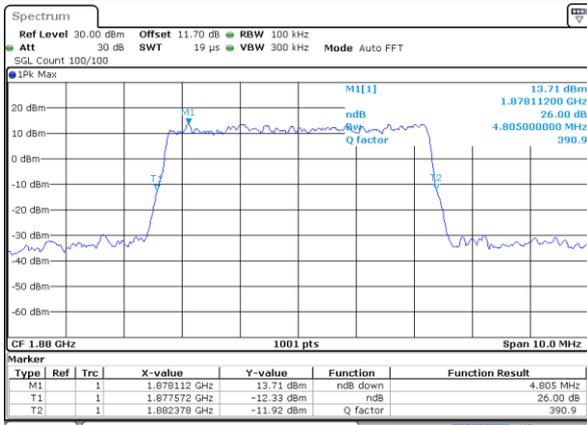
Date: 6 JAN 2020 11:38:28

Lowest Channel / 5MHz / 16QAM



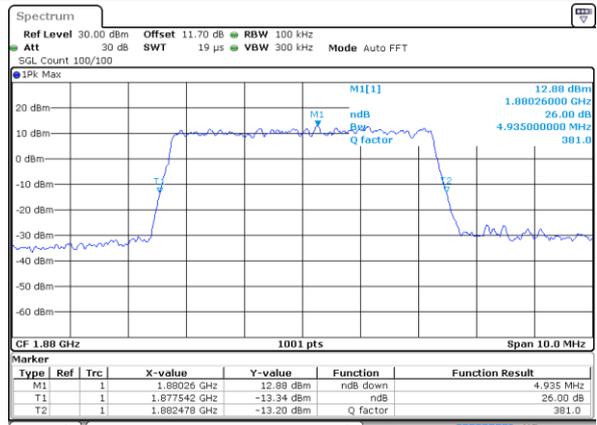
Date: 6 JAN 2020 11:38:41

Middle Channel / 5MHz / QPSK



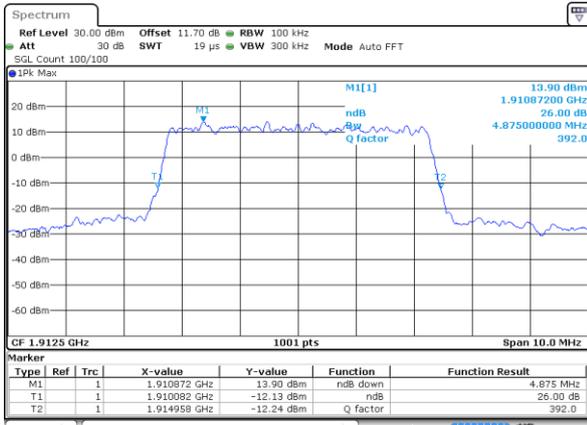
Date: 6 JAN 2020 11:44:43

Middle Channel / 5MHz / 16QAM



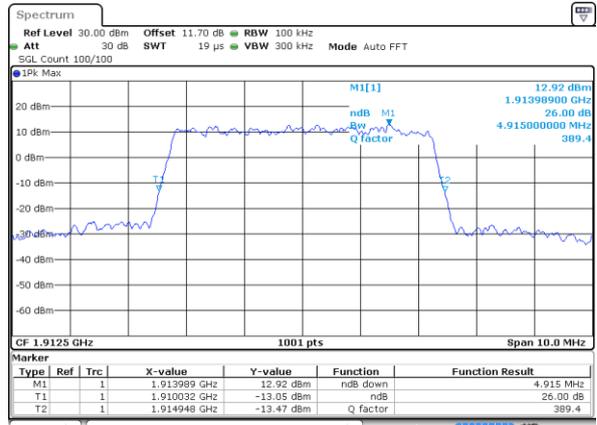
Date: 6 JAN 2020 11:44:55

Highest Channel / 5MHz / QPSK



Date: 6 JAN 2020 11:47:06

Highest Channel / 5MHz / 16QAM

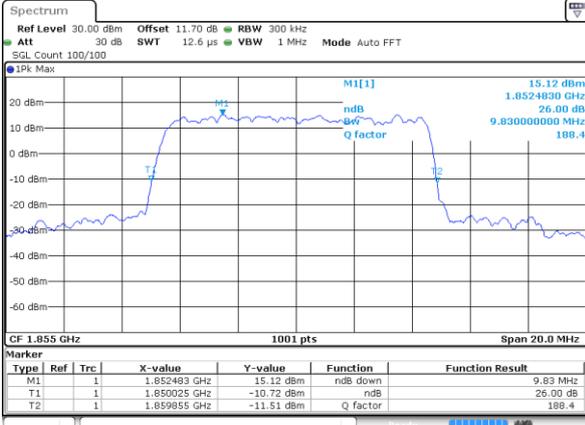


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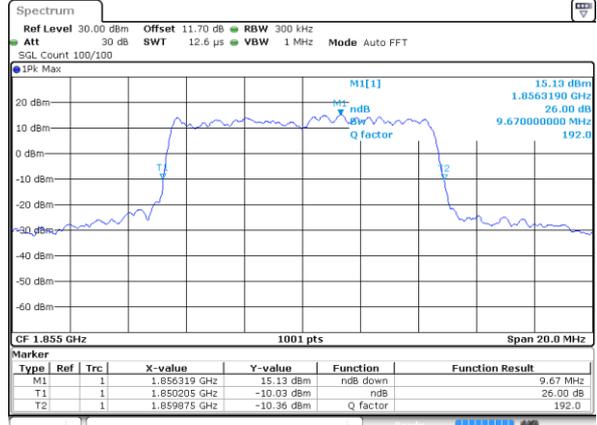
LTE Band 25

Lowest Channel / 10MHz / QPSK



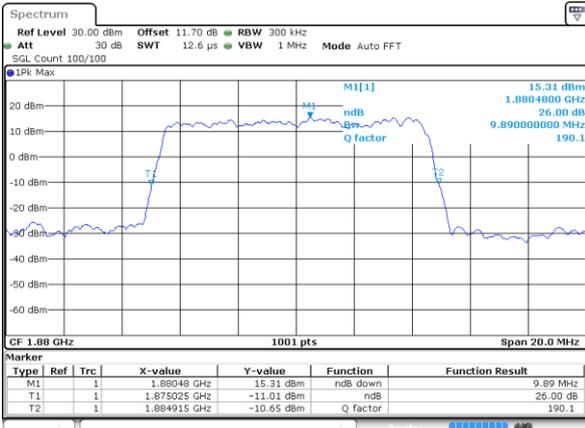
Date: 6 JAN 2020 12:00:27

Lowest Channel / 10MHz / 16QAM



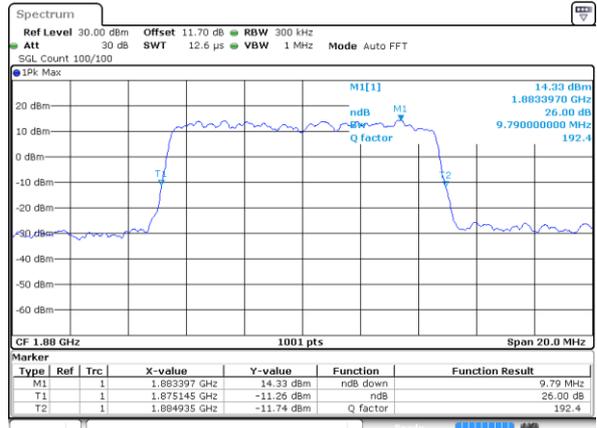
Date: 6 JAN 2020 12:00:39

Middle Channel / 10MHz / QPSK



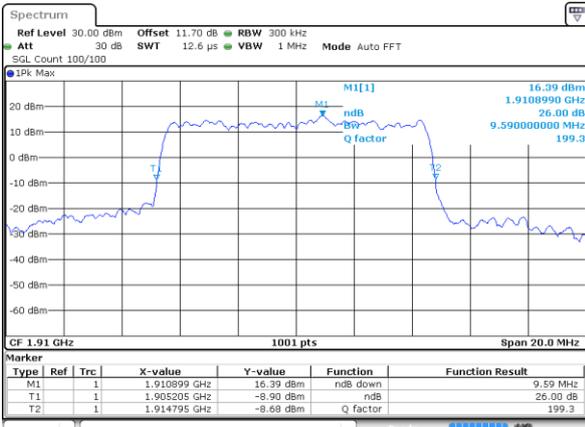
Date: 6 JAN 2020 12:06:41

Middle Channel / 10MHz / 16QAM



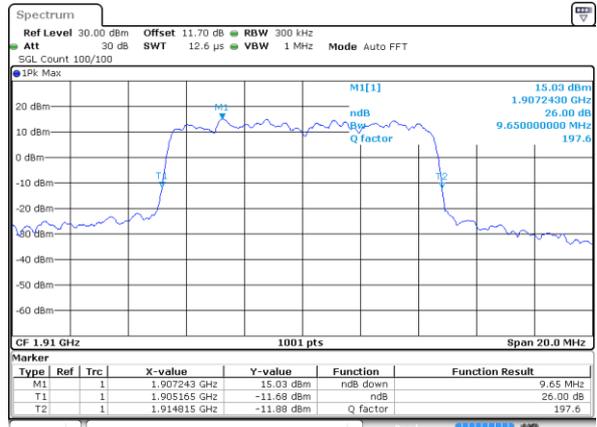
Date: 6 JAN 2020 12:06:53

Highest Channel / 10MHz / QPSK



Date: 6 JAN 2020 12:09:03

Highest Channel / 10MHz / 16QAM



Date: 6 JAN 2020 12:08:51