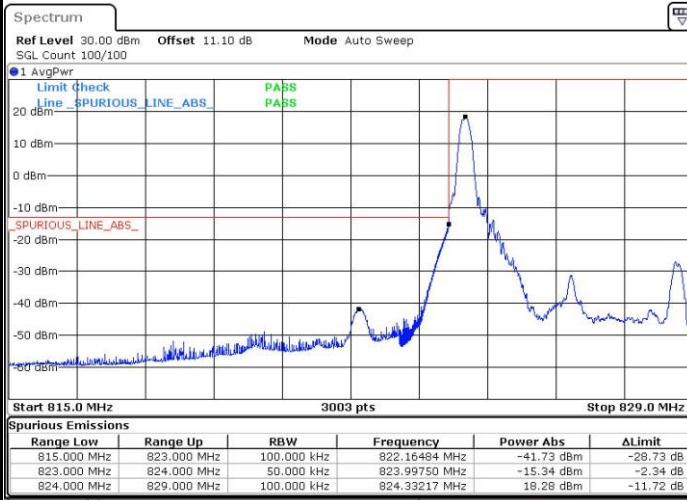




LTE Band 5 / 5MHz / 16QAM

Lowest Band Edge / 1RB



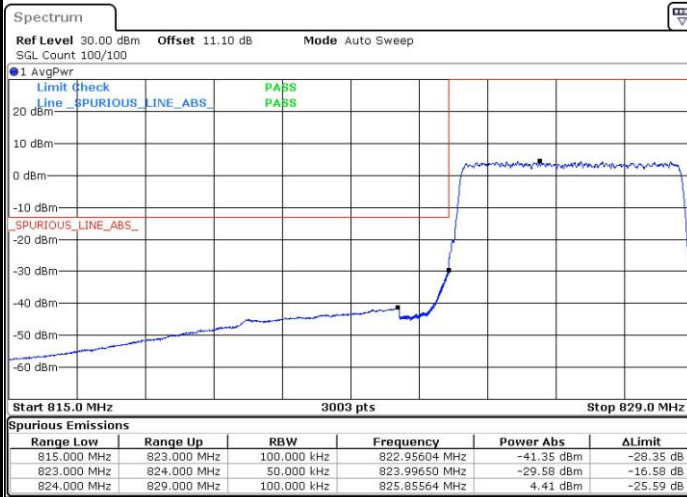
Date: 1.NOV.2018 22:34:17

Highest Band Edge / 1 RB



Date: 1.NOV.2018 22:47:12

Lowest Band Edge / Full RB



Date: 1.NOV.2018 22:37:45

Highest Band Edge / Full RB

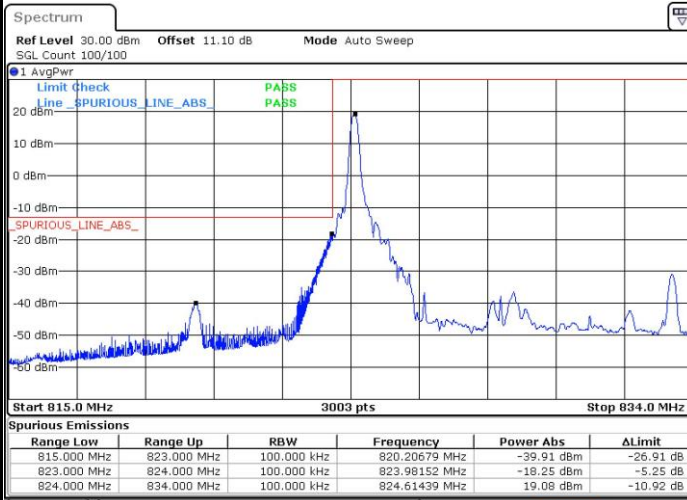


Date: 1.NOV.2018 22:50:42



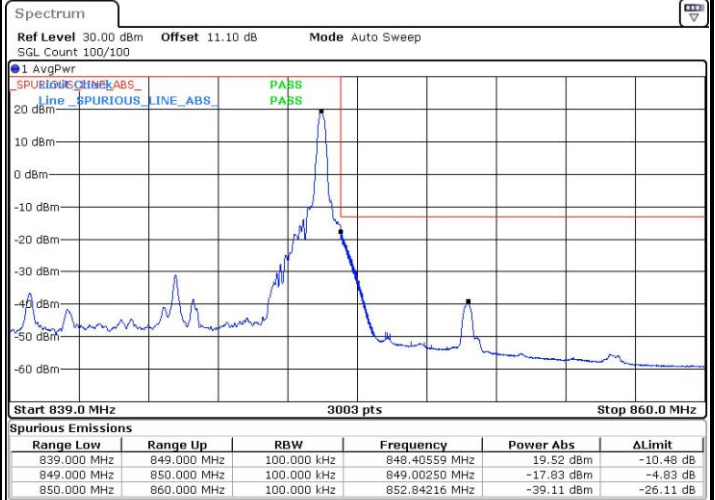
LTE Band 5 / 10MHz / QPSK

Lowest Band Edge / 1 RB



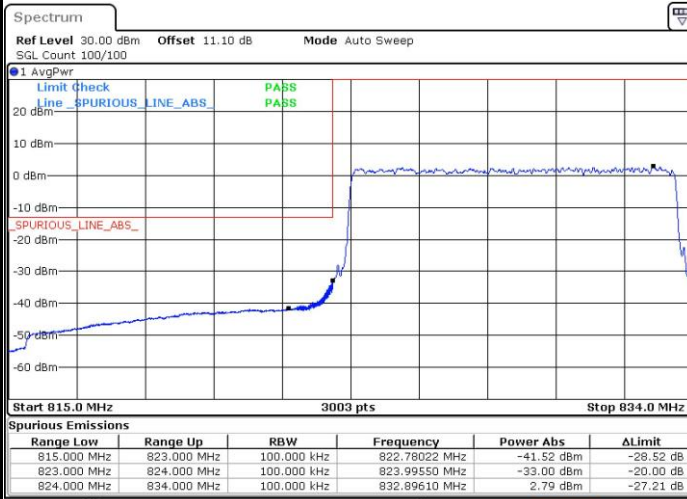
Date: 1.NOV.2018 22:55:27

Highest Band Edge / 1 RB



Date: 1.NOV.2018 23:08:29

Lowest Band Edge / Full RB



Date: 1.NOV.2018 22:58:55

Highest Band Edge / Full RB

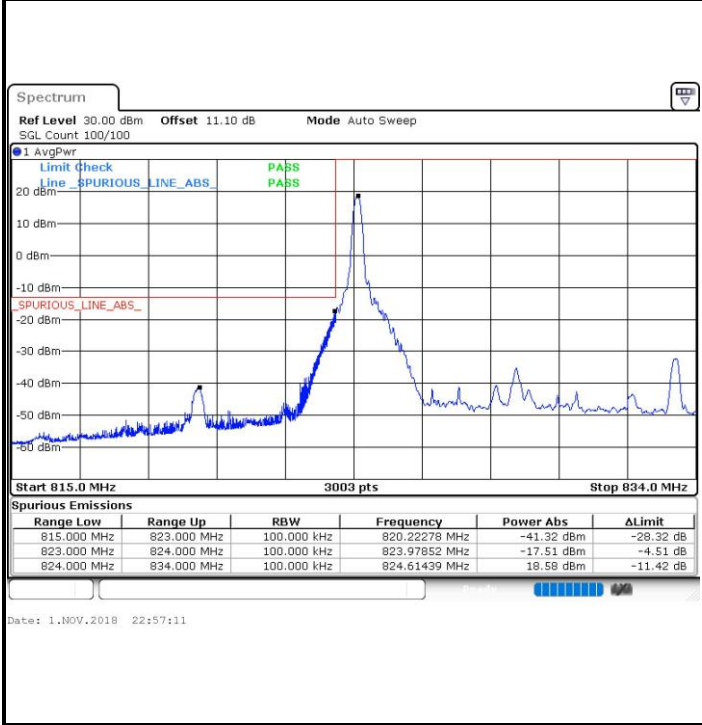


Date: 1.NOV.2018 23:11:57

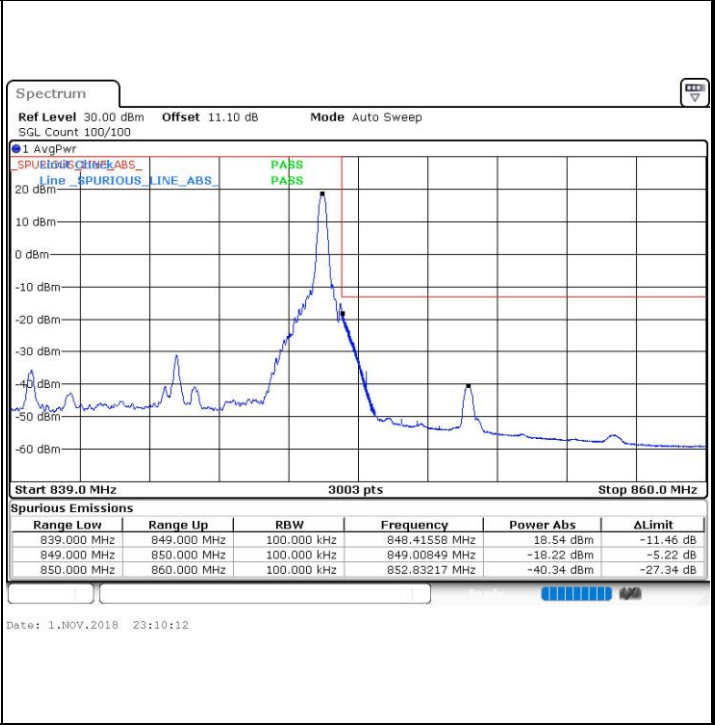


**LTE Band 5 / 10MHz / 16QAM**

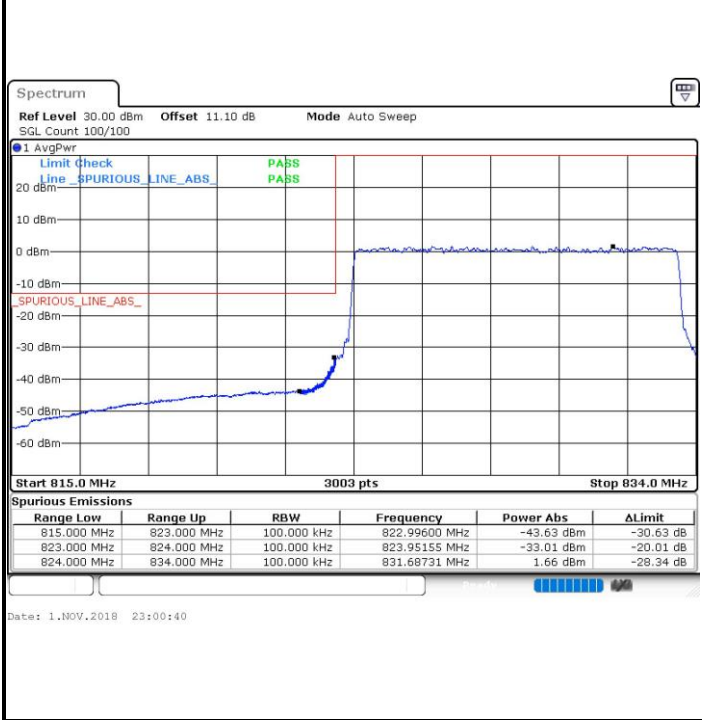
**Lowest Band Edge / 1 RB**



**Highest Band Edge / 1 RB**



**Lowest Band Edge / Full RB**

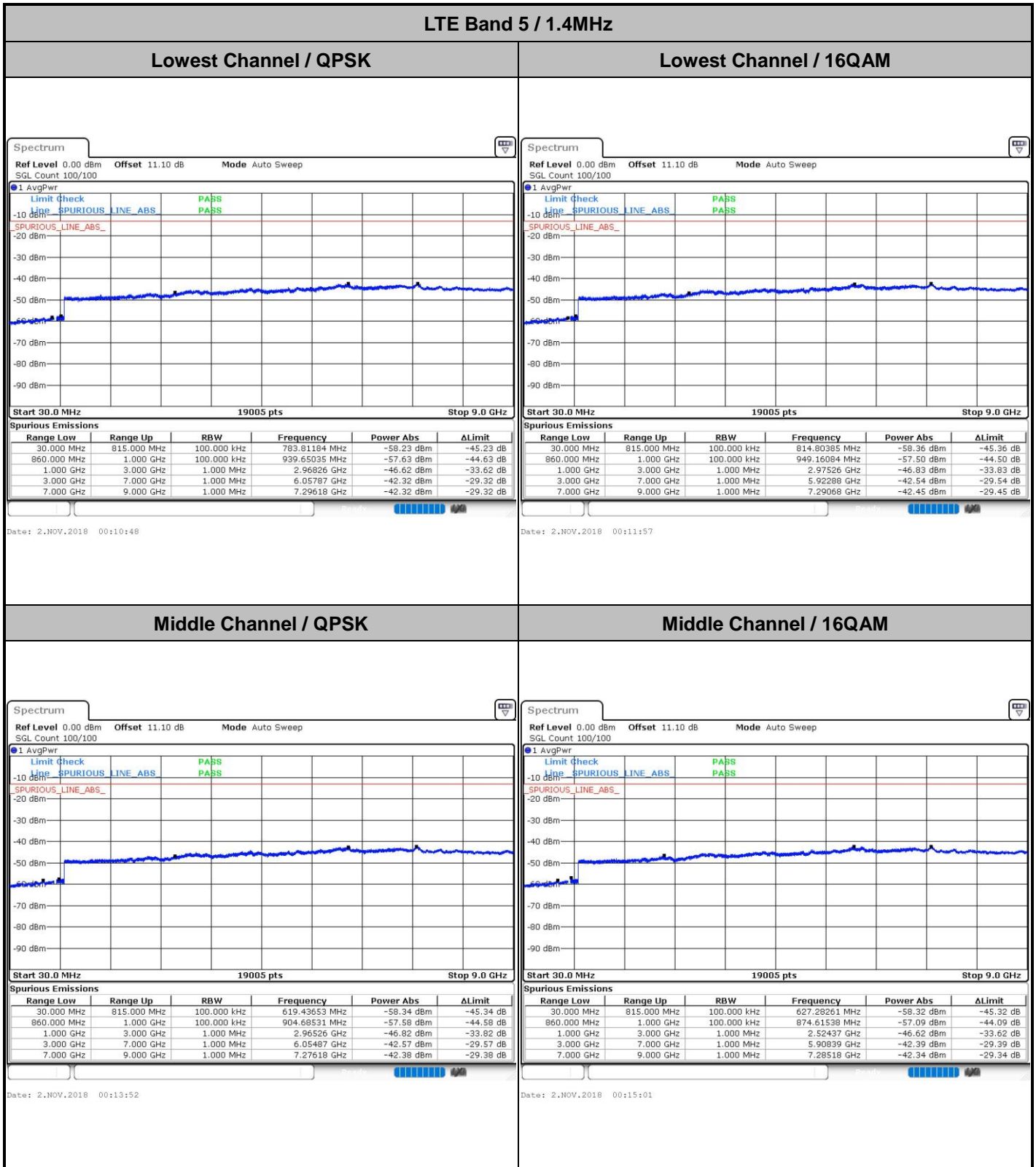


**Highest Band Edge / Full RB**





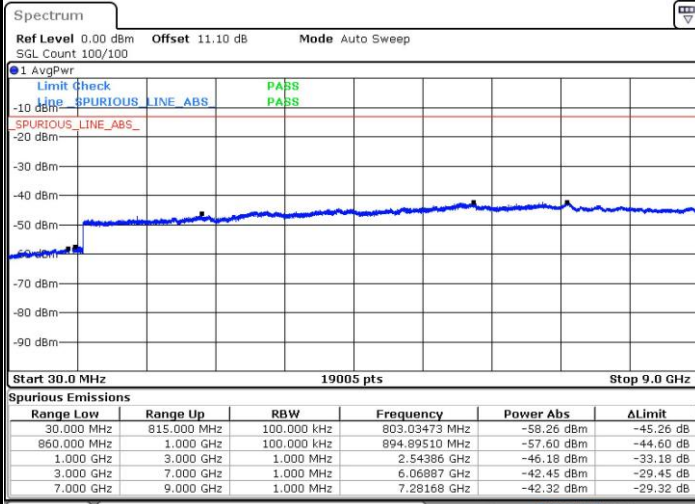
# Conducted Spurious Emission





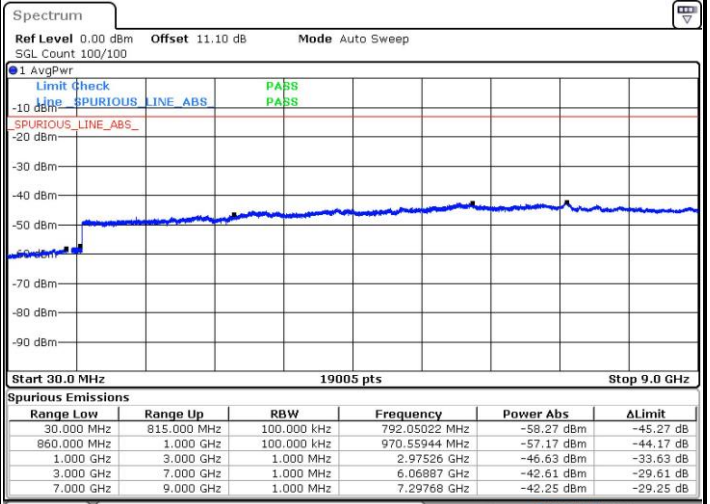
LTE Band 5 / 1.4MHz

Highest Channel / QPSK



Date: 2.NOV.2018 00:23:49

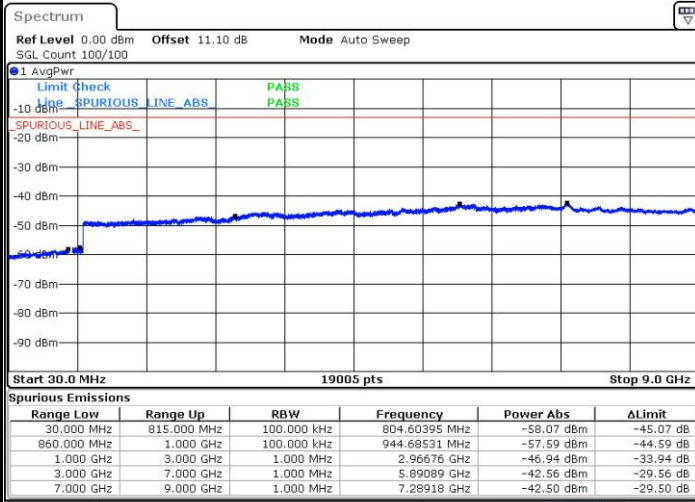
Highest Channel / 16QAM



Date: 2.NOV.2018 00:24:57

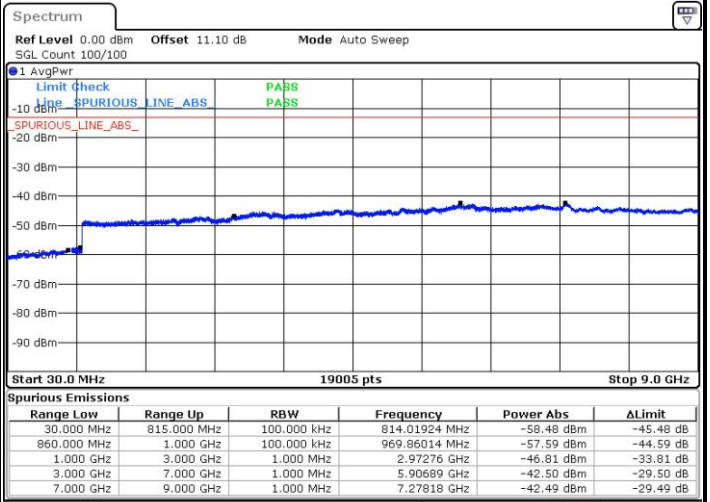
LTE Band 5 / 3MHz

Lowest Channel / QPSK



Date: 1.NOV.2018 22:15:57

Lowest Channel / 16QAM

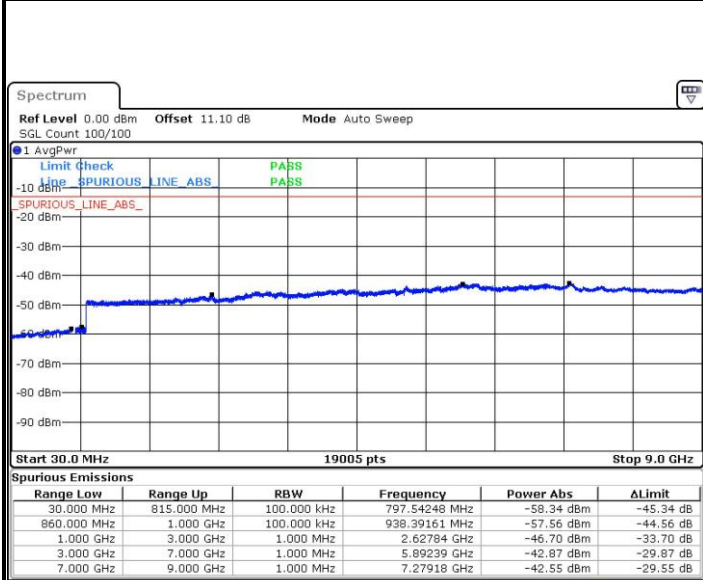


Date: 1.NOV.2018 22:17:04



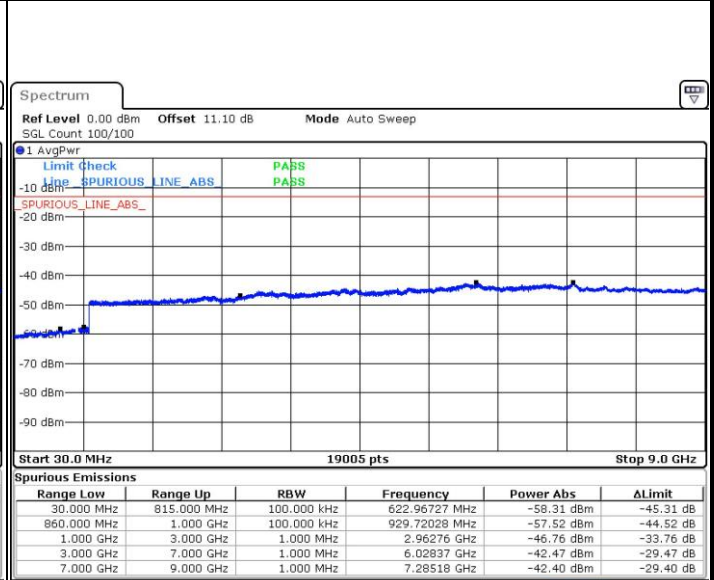
LTE Band 5 / 3MHz

Middle Channel / QPSK



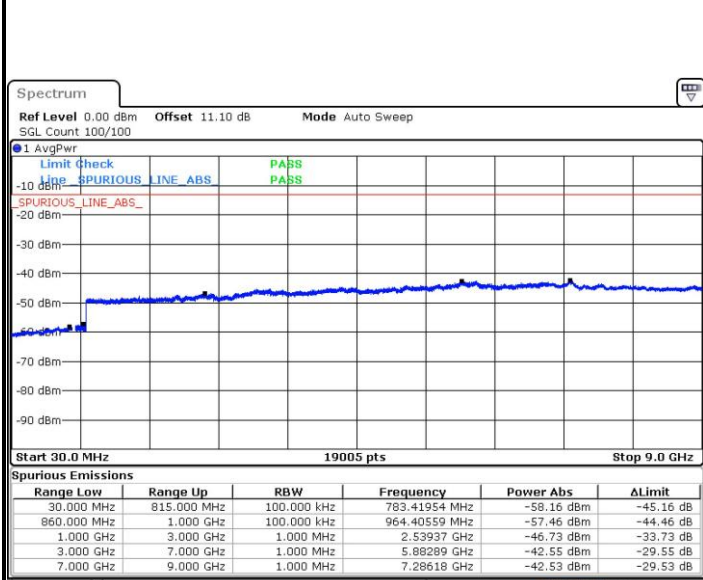
Date: 1.NOV.2018 22:16:58

Middle Channel / 16QAM



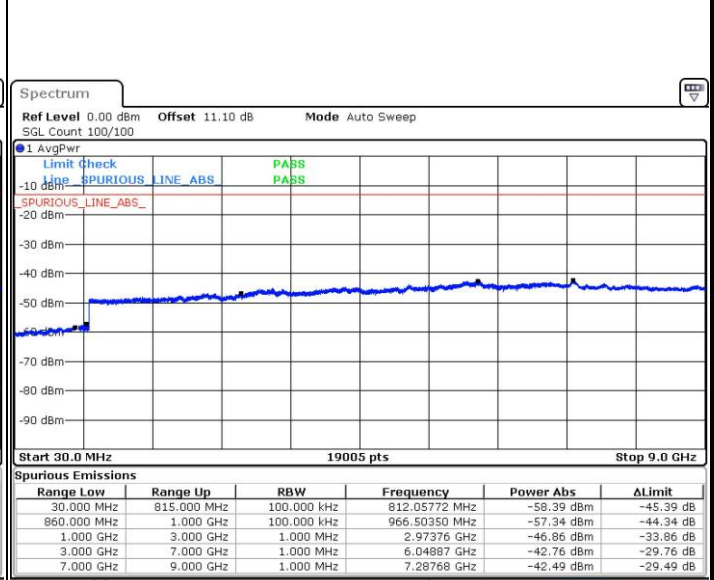
Date: 1.NOV.2018 22:20:07

Highest Channel / QPSK



Date: 1.NOV.2018 22:28:57

Highest Channel / 16QAM



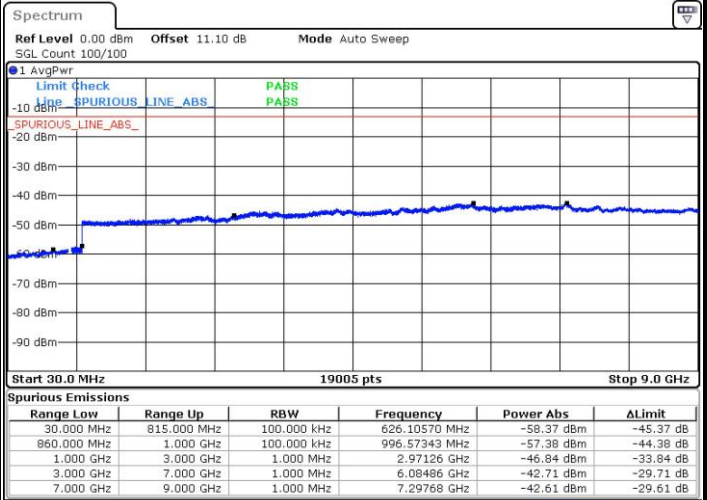
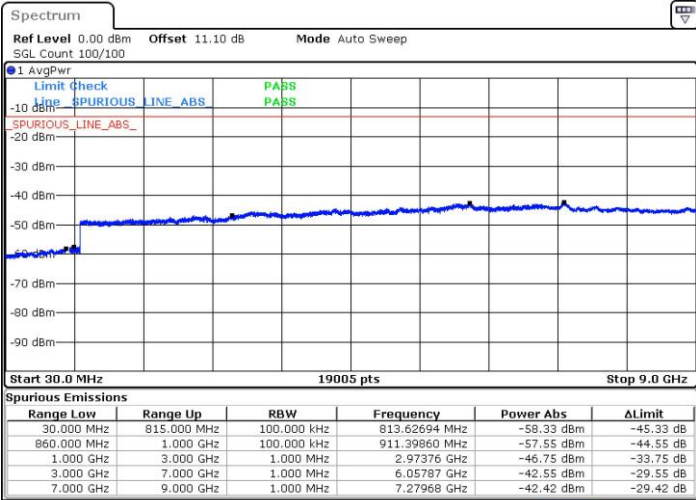
Date: 1.NOV.2018 22:30:04



LTE Band 5 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

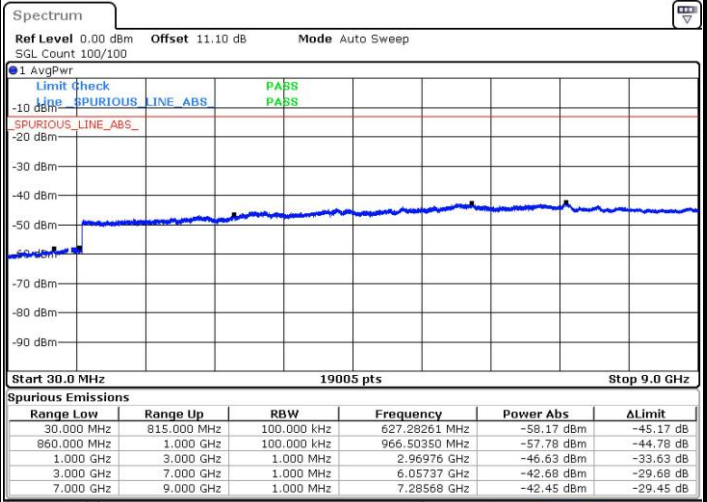
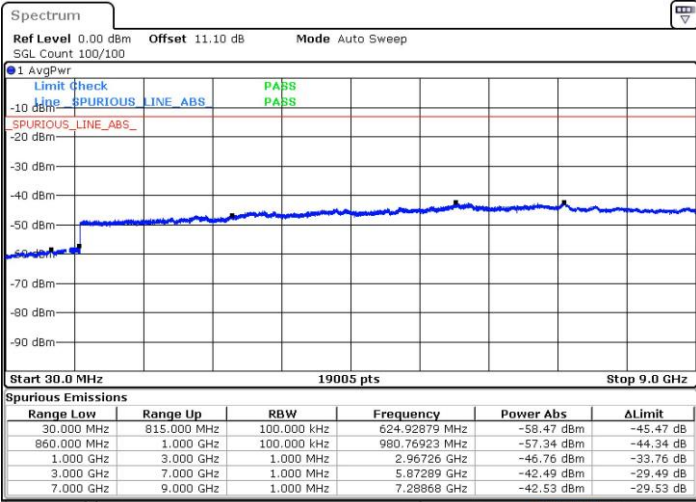


Date: 1.NOV.2018 22:38:51

Date: 1.NOV.2018 22:40:00

Middle Channel / QPSK

Middle Channel / 16QAM



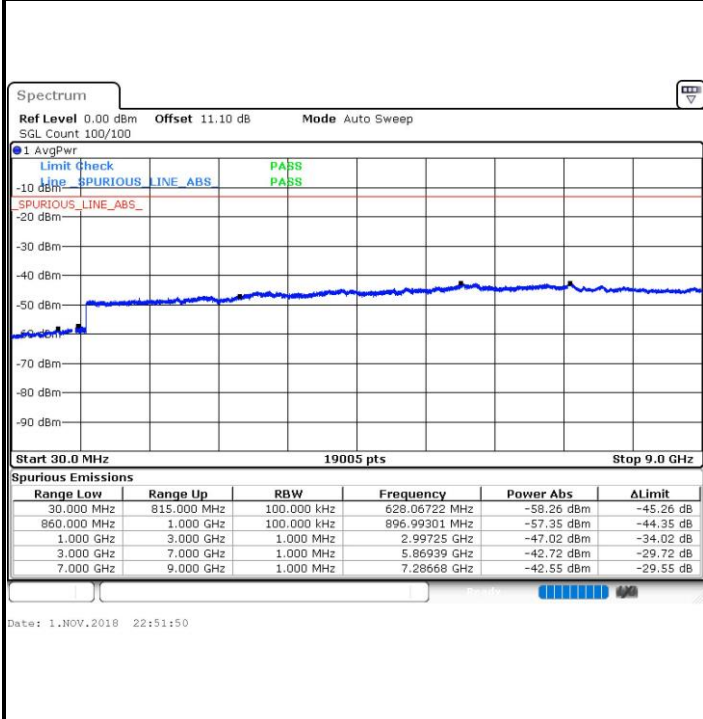
Date: 1.NOV.2018 22:41:53

Date: 1.NOV.2018 22:42:59

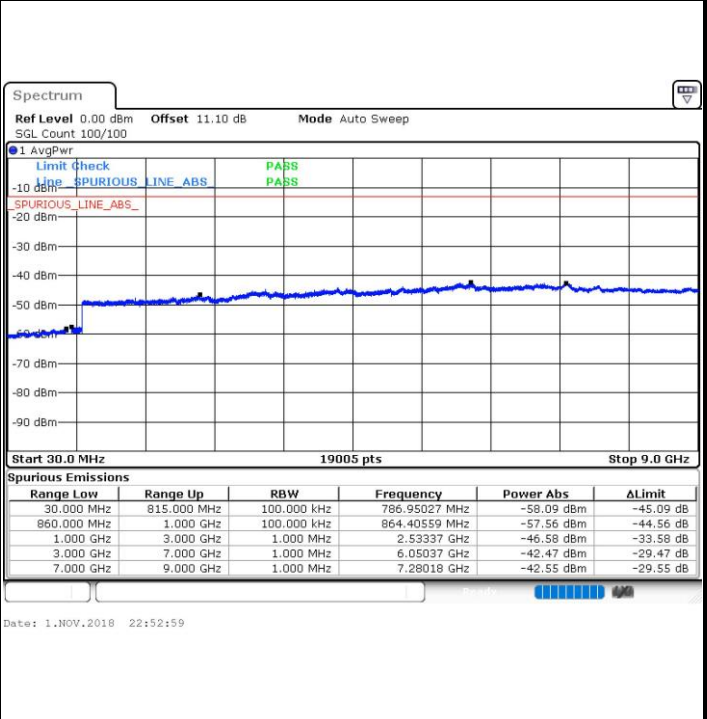


LTE Band 5 / 5MHz

Highest Channel / QPSK

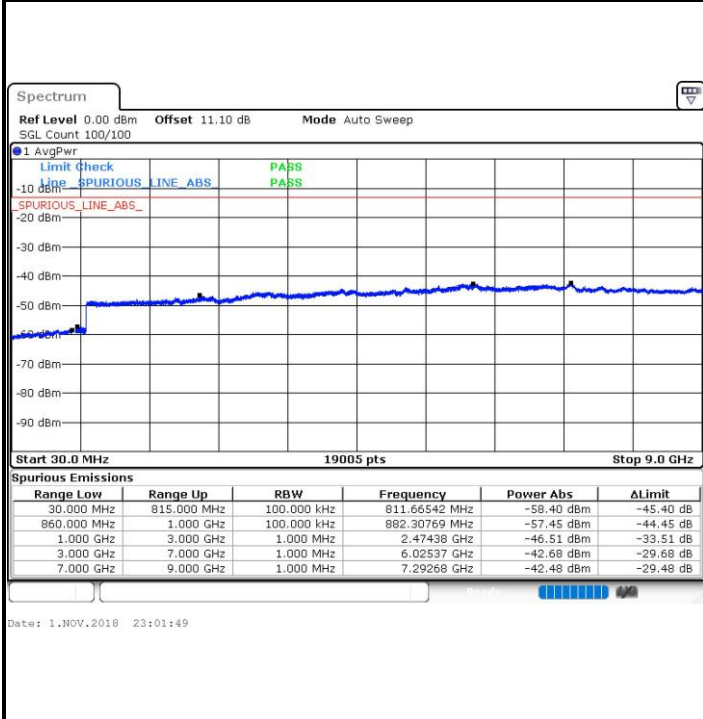


Highest Channel / 16QAM

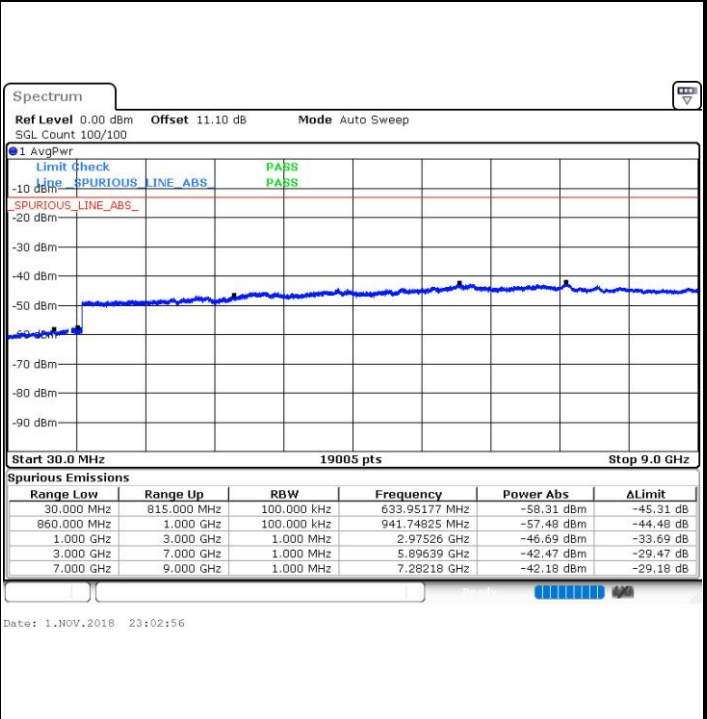


LTE Band 5 / 10MHz

Lowest Channel / QPSK



Lowest Channel / 16QAM



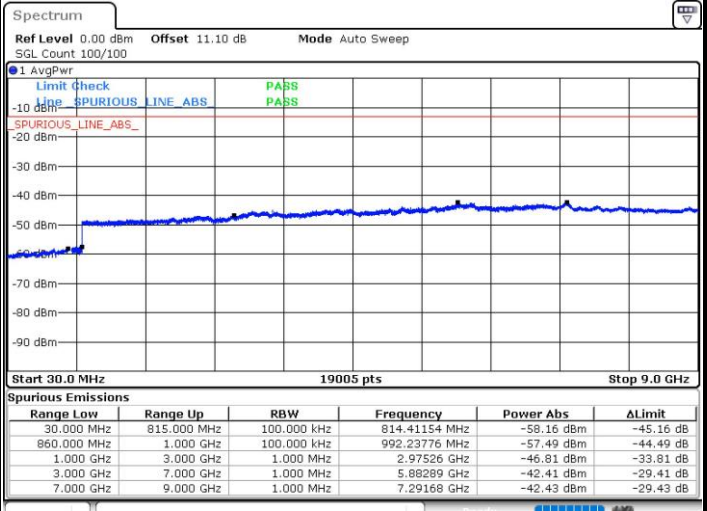
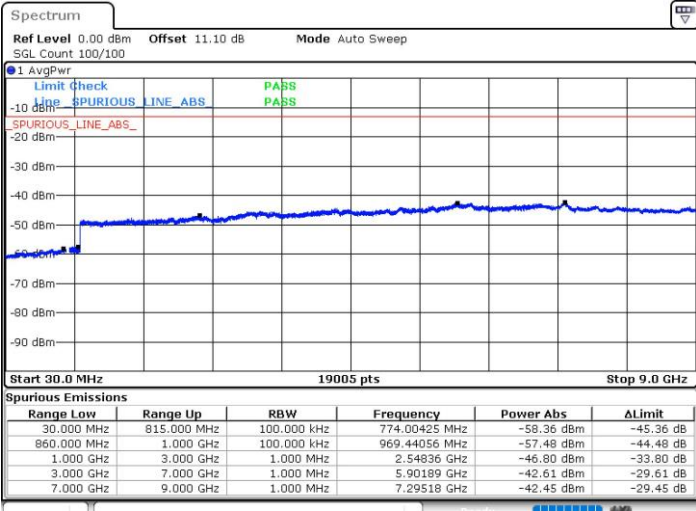




LTE Band 5 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

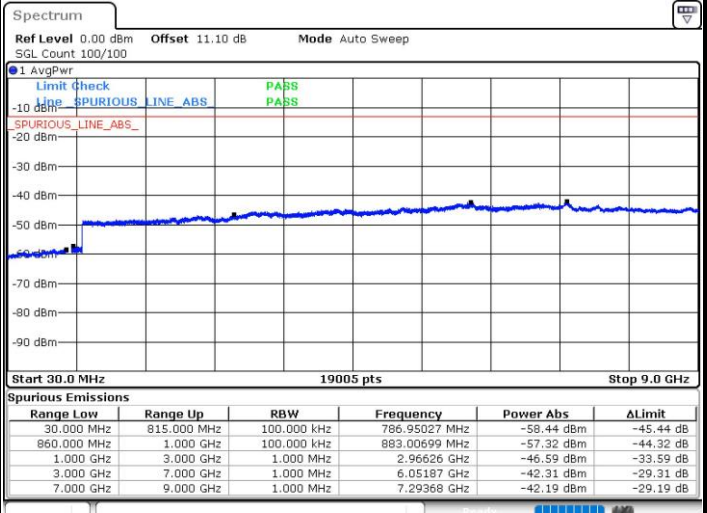
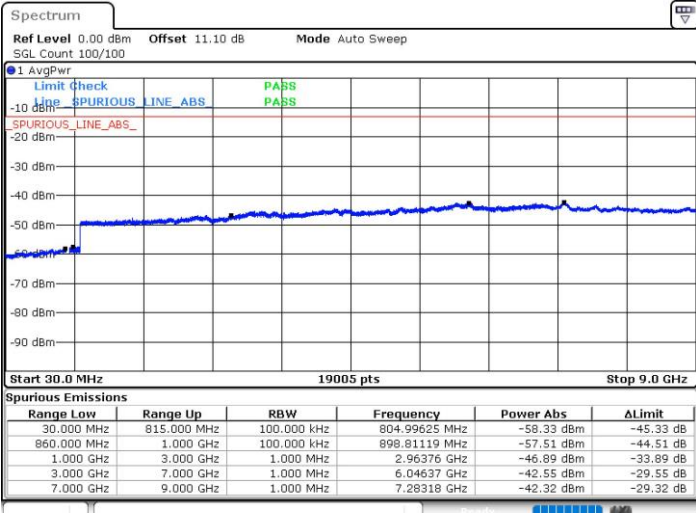


Date: 1.NOV.2018 23:04:49

Date: 1.NOV.2018 23:05:59

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 1.NOV.2018 23:14:50

Date: 1.NOV.2018 23:15:58



**Frequency Stability**

Test Conditions		LTE Band 5 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0110	PASS
40	Normal Voltage	0.0161	
30	Normal Voltage	0.0114	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0093	
0	Normal Voltage	0.0048	
-10	Normal Voltage	0.0049	
-20	Normal Voltage	0.0002	
-30	Normal Voltage	0.0152	
20	Maximum Voltage	0.0126	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0175	

**Note:**

- 1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.2 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



## LTE Band 7

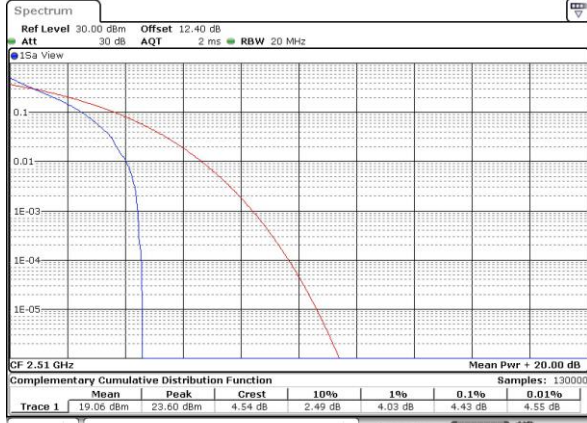
### Peak-to-Average Ratio

Mode	LTE Band 7 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.43	4.93	5.36	5.88	<b>PASS</b>
Middle CH	4.87	5.22	6.17	6.17	
Highest CH	4.58	5.19	6.00	6.12	



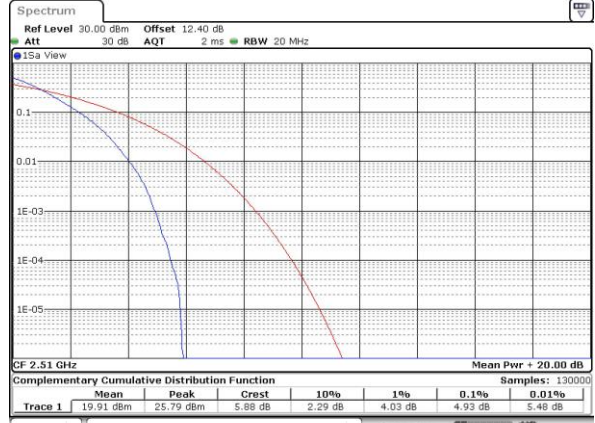
LTE Band 7 / 20MHz / QPSK

Lowest Channel / 1RB



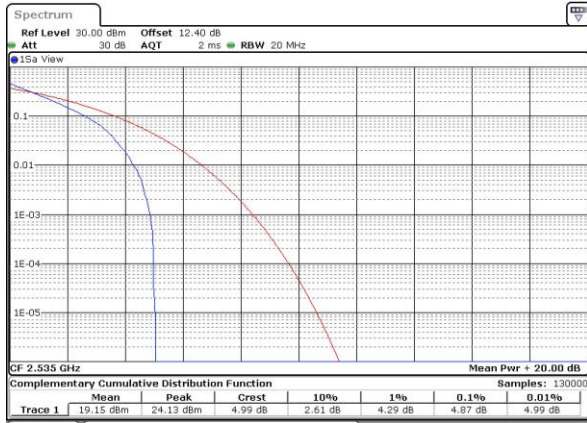
Date: 2.NOV.2018 21:10:28

Lowest Channel / Full RB



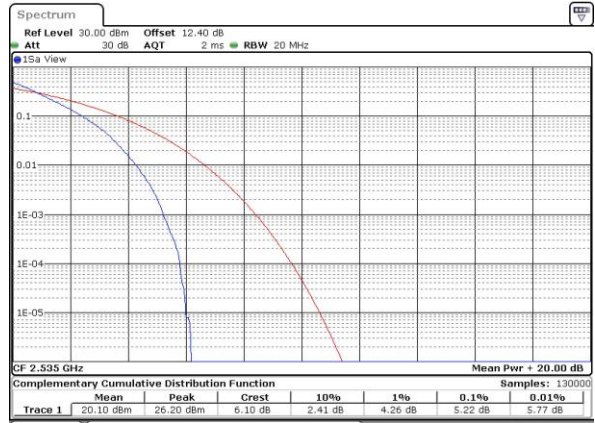
Date: 2.NOV.2018 21:10:43

Middle Channel / 1RB



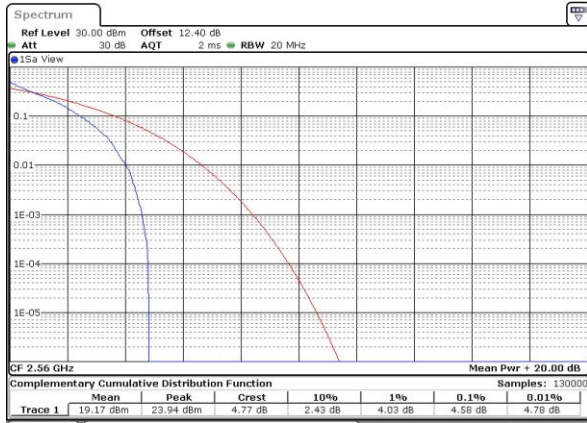
Date: 2.NOV.2018 21:11:08

Middle Channel / Full RB



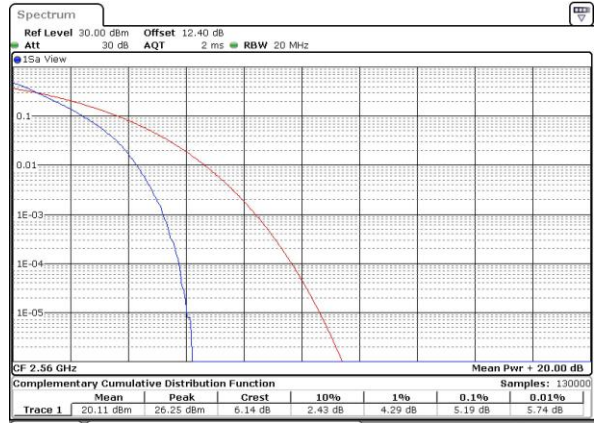
Date: 2.NOV.2018 21:11:27

Highest Channel / 1RB



Date: 2.NOV.2018 21:12:05

Highest Channel / Full RB

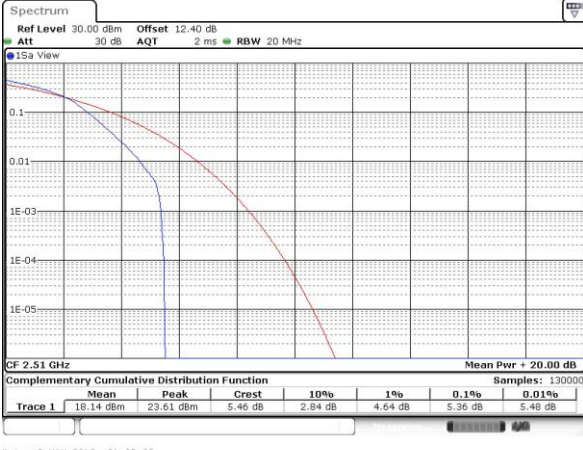


Date: 2.NOV.2018 21:12:16



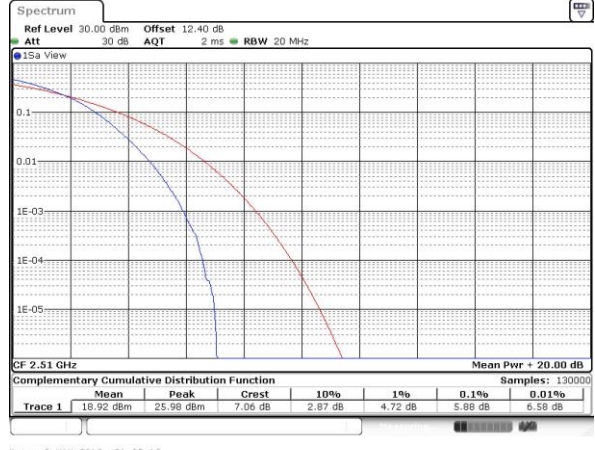
LTE Band 7 / 20MHz / 16QAM

Lowest Channel / 1RB



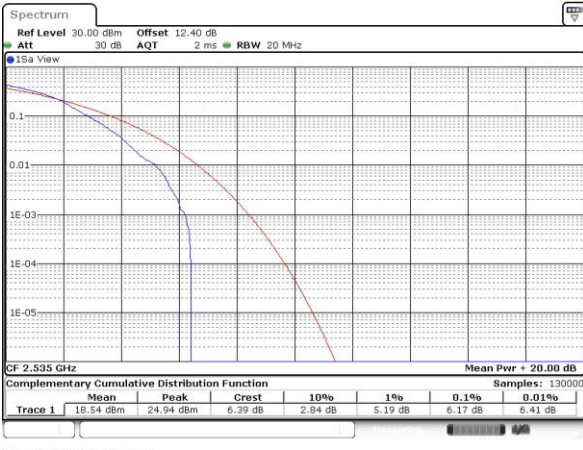
Date: 2.NOV.2018 21:09:08

Lowest Channel / Full RB



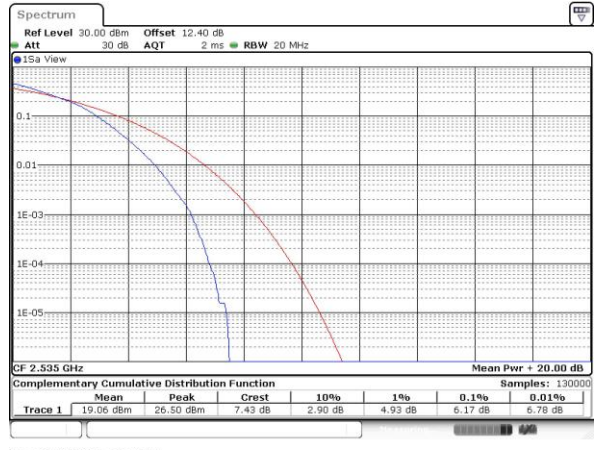
Date: 2.NOV.2018 21:09:18

Middle Channel / 1RB



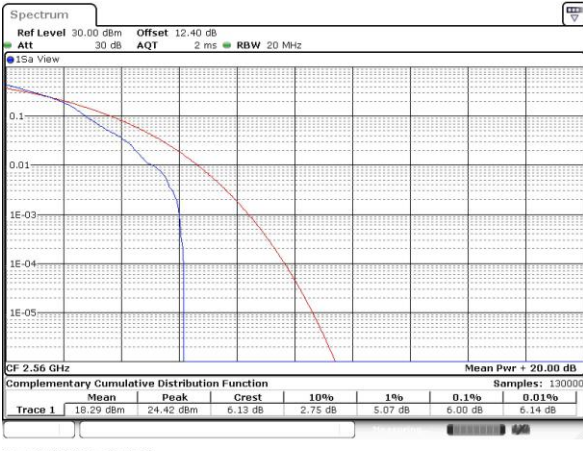
Date: 2.NOV.2018 21:09:20

Middle Channel / Full RB



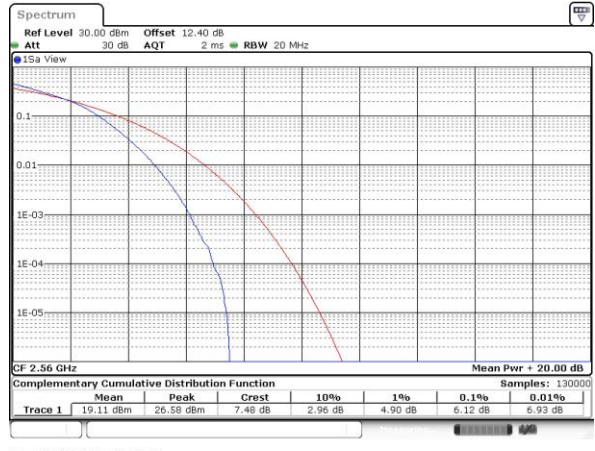
Date: 2.NOV.2018 21:09:39

Highest Channel / 1RB



Date: 2.NOV.2018 21:09:51

Highest Channel / Full RB



Date: 2.NOV.2018 21:10:07



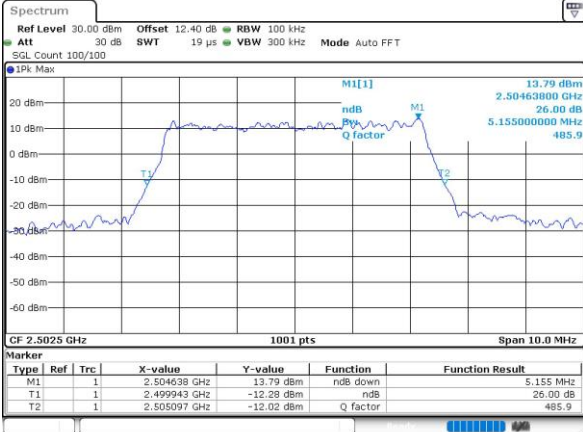
**26dB Bandwidth**

Mode	LTE Band 7 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	5.16	5.00	9.67	10.07	14.51	15.05	20.10	20.14
Middle CH	-	-	-	-	5.04	4.98	9.95	9.75	14.63	14.42	20.22	20.18
Highest CH	-	-	-	-	5.10	4.99	9.87	10.01	14.36	14.54	20.14	20.30



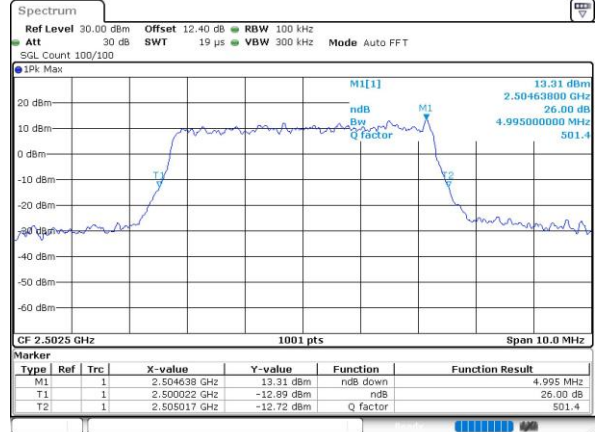
LTE Band 7

Lowest Channel / 5MHz / QPSK



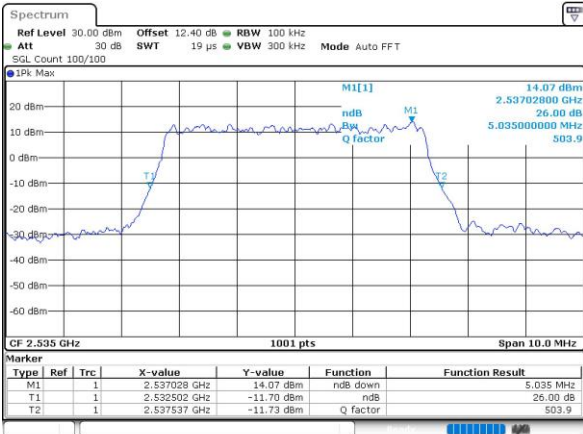
Date: 2.NOV.2018 19:51:04

Lowest Channel / 5MHz / 16QAM



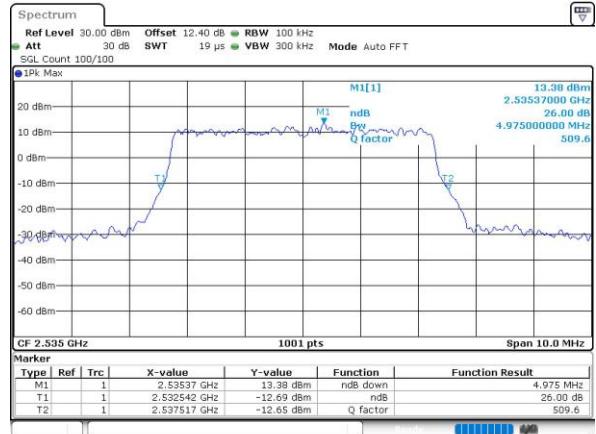
Date: 2.NOV.2018 19:51:15

Middle Channel / 5MHz / QPSK



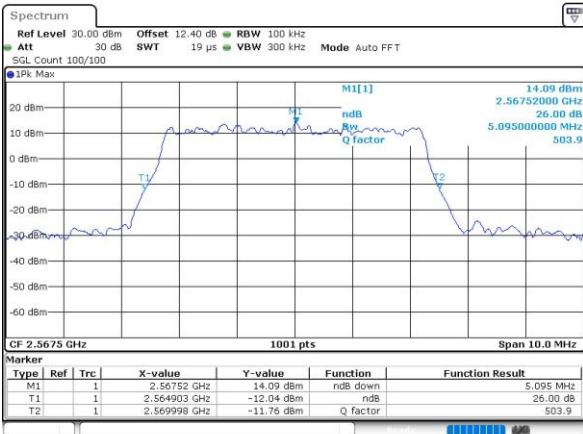
Date: 2.NOV.2018 19:57:45

Middle Channel / 5MHz / 16QAM



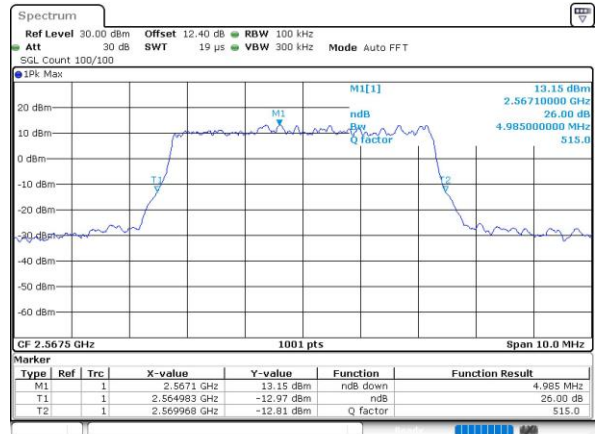
Date: 2.NOV.2018 19:57:56

Highest Channel / 5MHz / QPSK



Date: 2.NOV.2018 20:00:29

Highest Channel / 5MHz / 16QAM

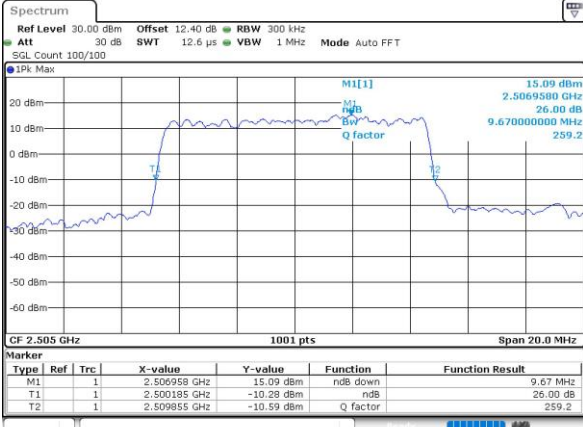


Date: 2.NOV.2018 20:00:40



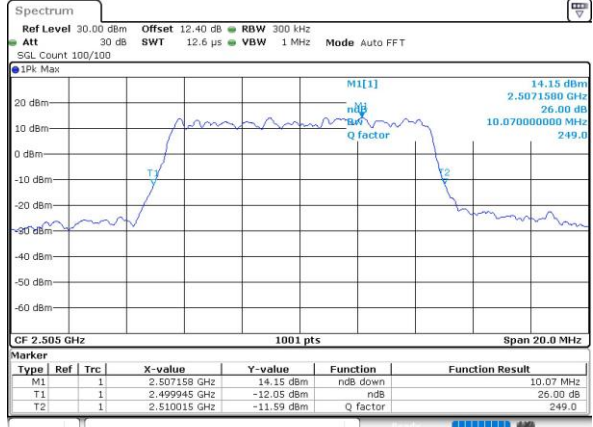
LTE Band 7

Lowest Channel / 10MHz / QPSK



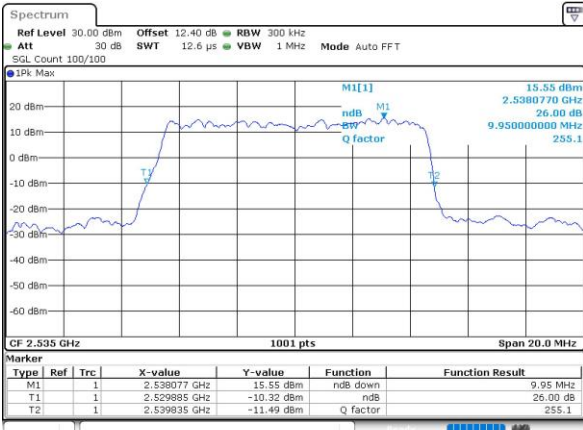
Date: 2.NOV.2018 20:07:11

Lowest Channel / 10MHz / 16QAM



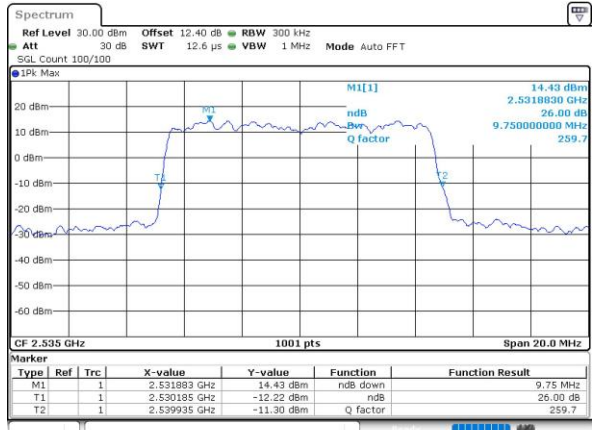
Date: 2.NOV.2018 20:07:22

Middle Channel / 10MHz / QPSK



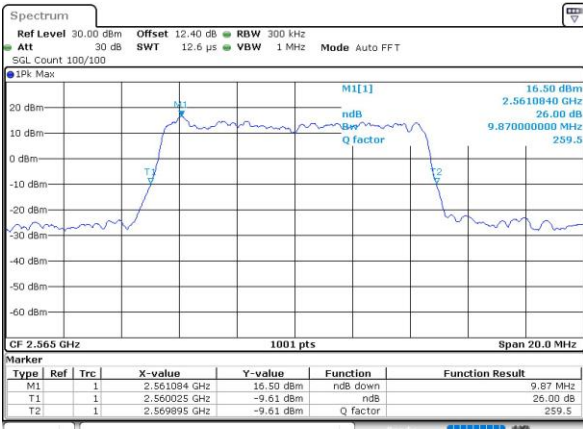
Date: 2.NOV.2018 20:13:53

Middle Channel / 10MHz / 16QAM



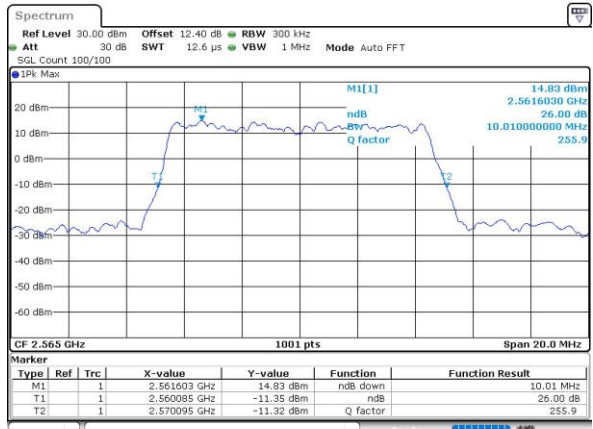
Date: 2.NOV.2018 20:14:05

Highest Channel / 10MHz / QPSK



Date: 2.NOV.2018 20:16:37

Highest Channel / 10MHz / 16QAM



Date: 2.NOV.2018 20:16:48





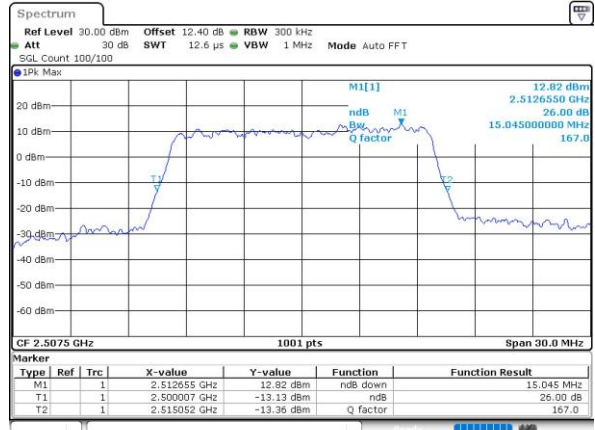
LTE Band 7

Lowest Channel / 15MHz / QPSK



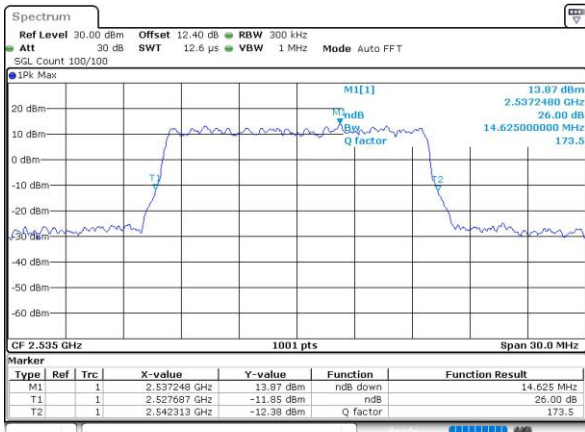
Date: 2.NOV.2018 20:23:20

Lowest Channel / 15MHz / 16QAM



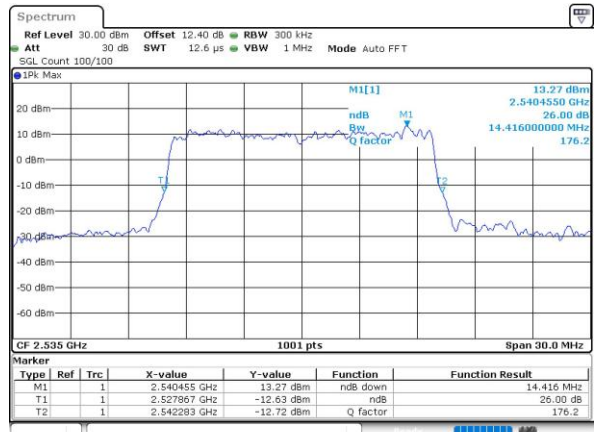
Date: 2.NOV.2018 20:23:31

Middle Channel / 15MHz / QPSK



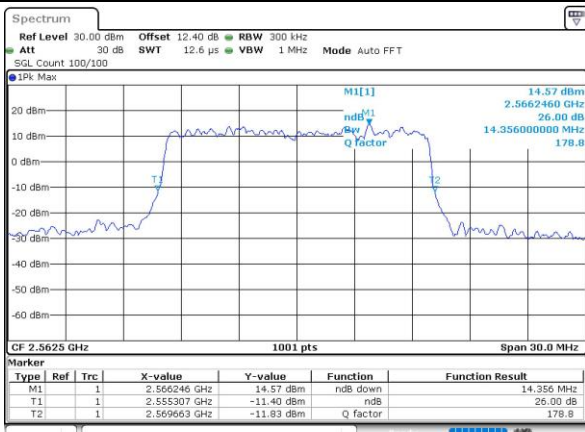
Date: 2.NOV.2018 20:30:01

Middle Channel / 15MHz / 16QAM



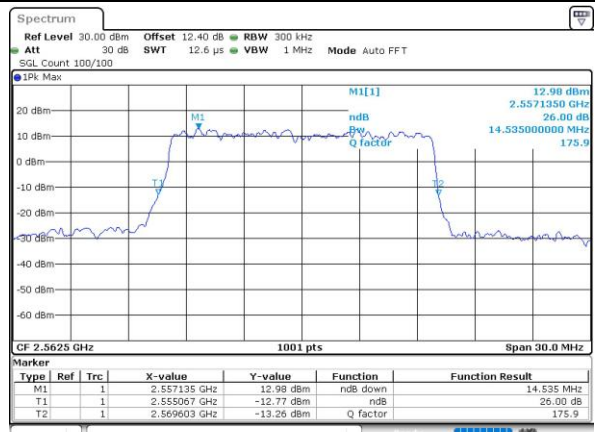
Date: 2.NOV.2018 20:30:13

Highest Channel / 15MHz / QPSK



Date: 2.NOV.2018 20:32:45

Highest Channel / 15MHz / 16QAM

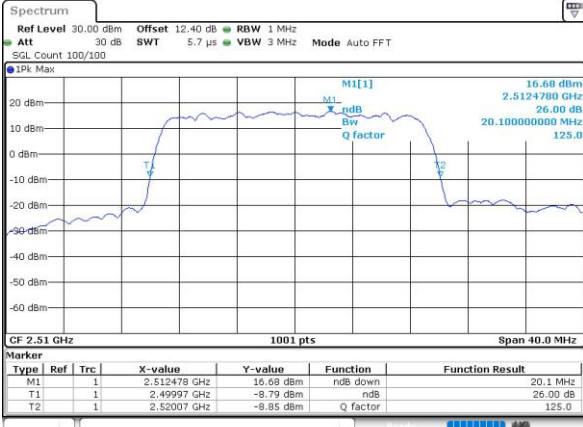


Date: 2.NOV.2018 20:32:56



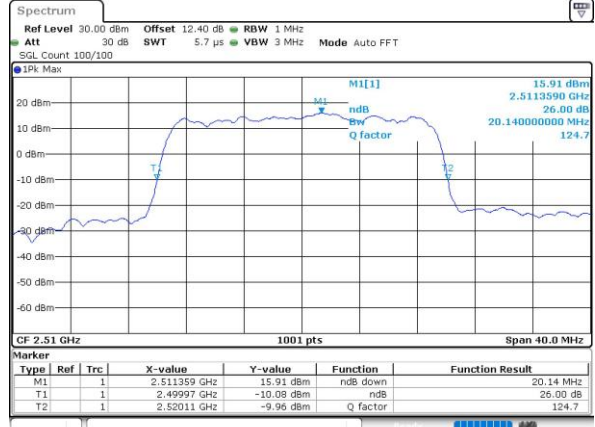
LTE Band 7

Lowest Channel / 20MHz / QPSK



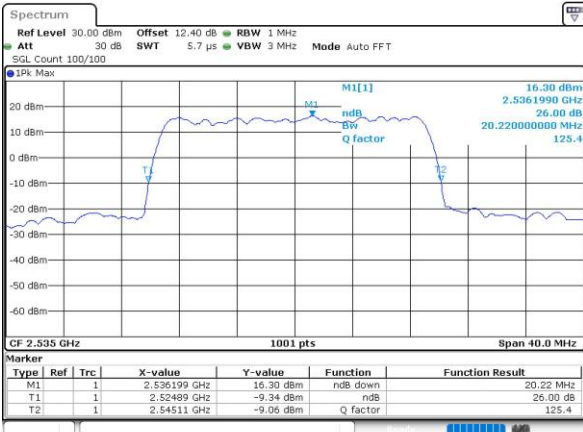
Date: 2.NOV.2018 20:39:27

Lowest Channel / 20MHz / 16QAM



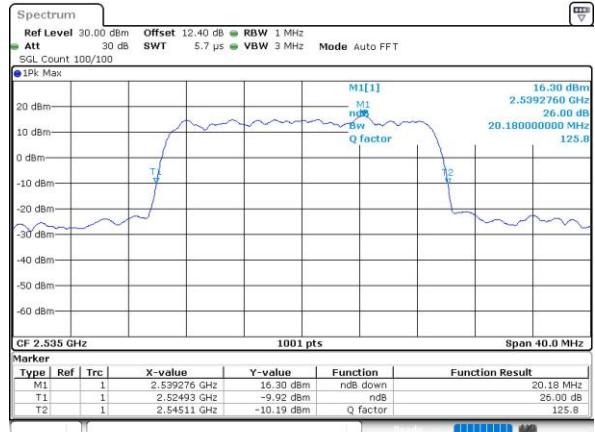
Date: 2.NOV.2018 20:39:38

Middle Channel / 20MHz / QPSK



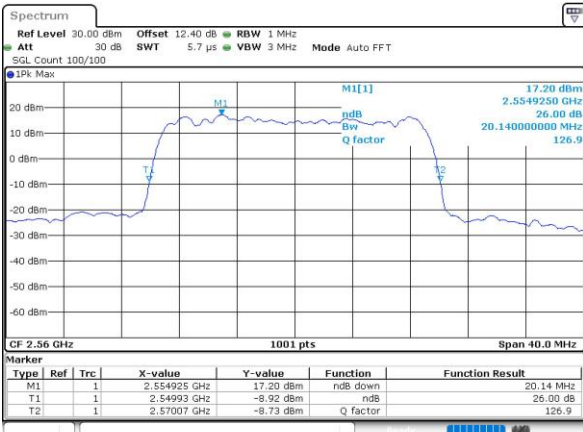
Date: 2.NOV.2018 20:46:08

Middle Channel / 20MHz / 16QAM



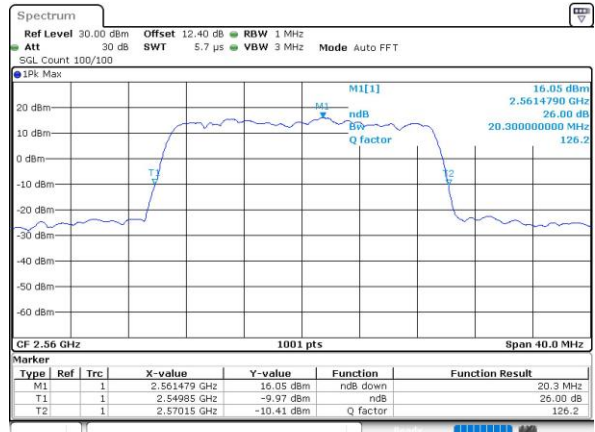
Date: 2.NOV.2018 20:46:20

Highest Channel / 20MHz / QPSK



Date: 2.NOV.2018 20:48:52

Highest Channel / 20MHz / 16QAM



Date: 2.NOV.2018 20:49:03



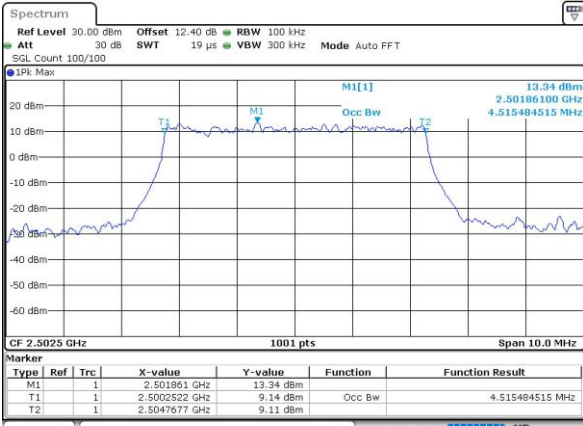
**Occupied Bandwidth**

Mode	LTE Band 7 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.52	4.48	9.09	9.03	13.46	13.46	18.30	18.26
Middle CH	-	-	-	-	4.50	4.52	9.05	9.03	13.49	13.43	18.26	18.46
Highest CH	-	-	-	-	4.50	4.51	9.05	9.05	13.52	13.40	18.42	18.58



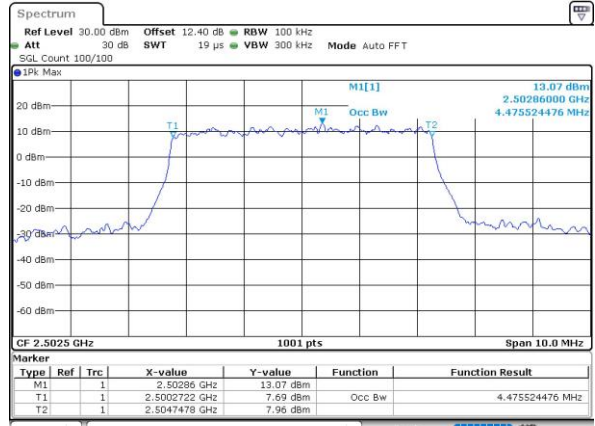
LTE Band 7

Lowest Channel / 5MHz / QPSK



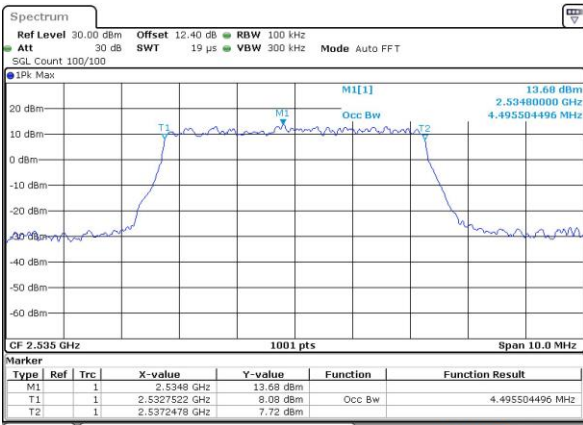
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Lowest Channel / 5MHz / 16QAM



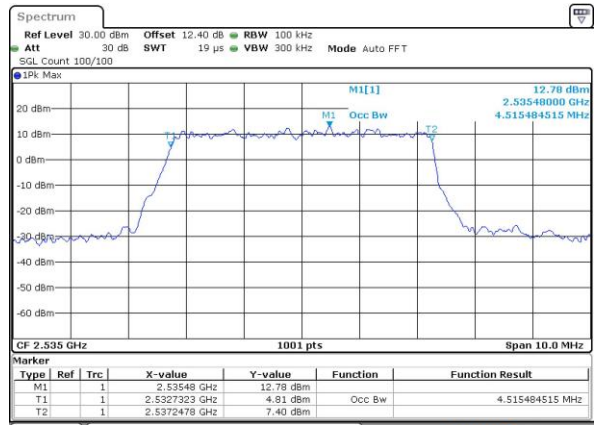
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Middle Channel / 5MHz / QPSK



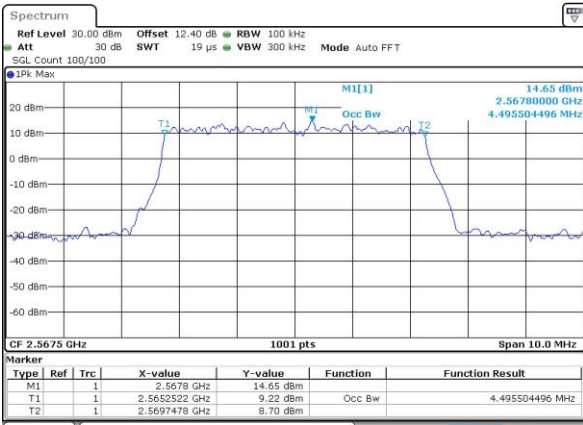
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Middle Channel / 5MHz / 16QAM



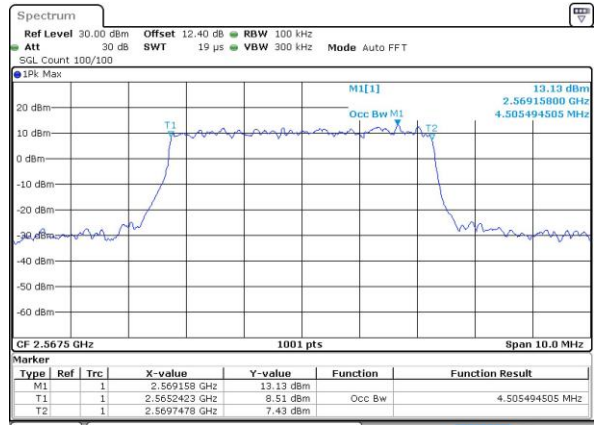
Date: 2,NOV,2018 19:57:34

Highest Channel / 5MHz / QPSK



Date: 2,NOV,2018 20:00:06

Highest Channel / 5MHz / 16QAM

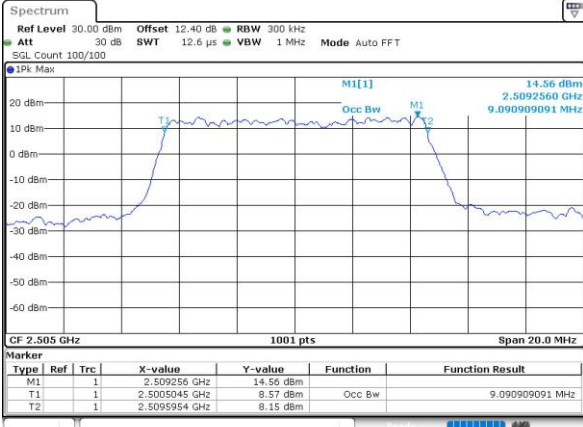


Date: 2,NOV,2018 20:00:17



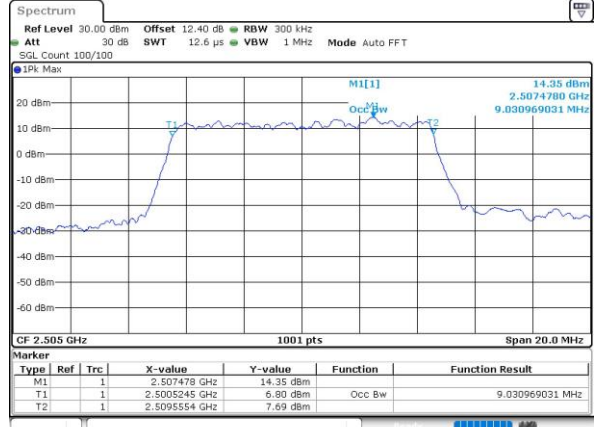
LTE Band 7

Lowest Channel / 10MHz / QPSK



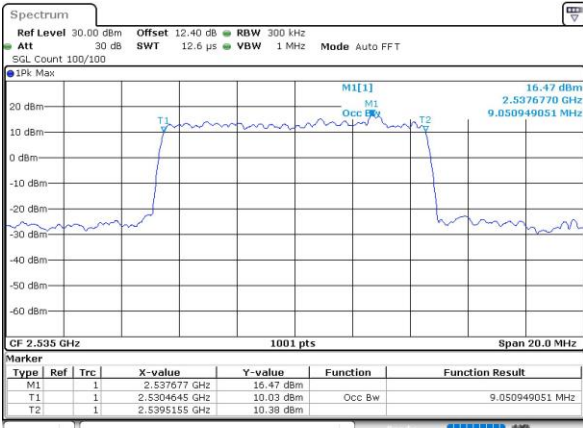
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Lowest Channel / 10MHz / 16QAM



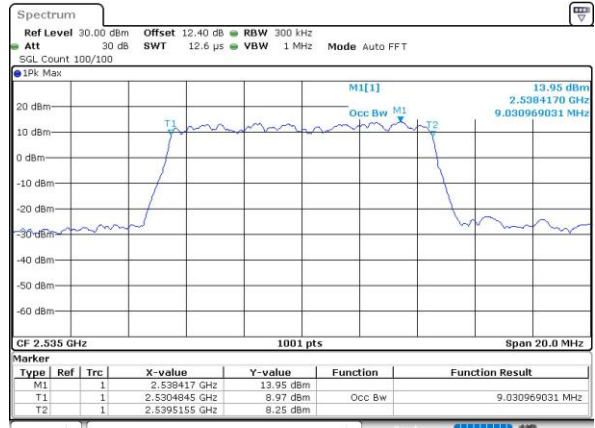
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Middle Channel / 10MHz / QPSK



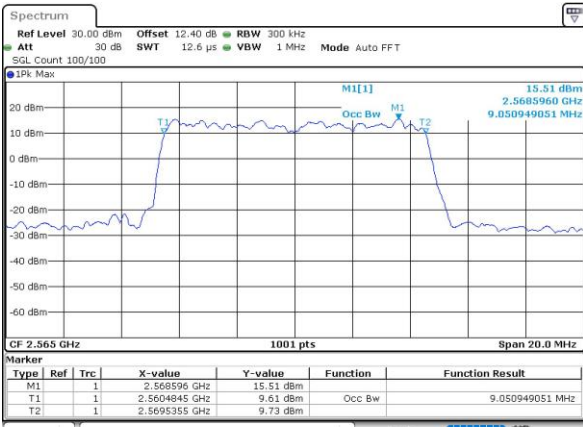
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Middle Channel / 10MHz / 16QAM



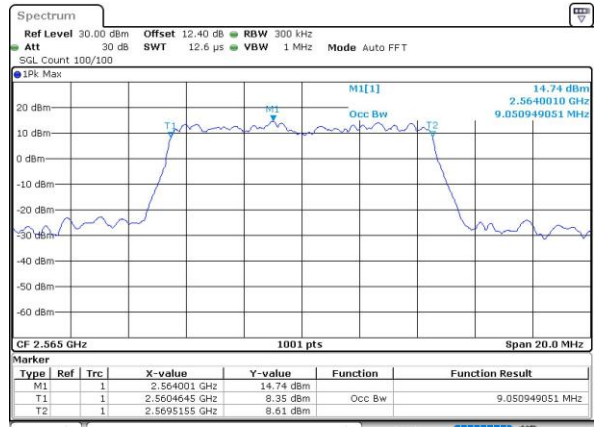
Date: 2,NOV,2018 20:13:42

Highest Channel / 10MHz / QPSK



Date: 2,NOV,2018 20:16:14

Highest Channel / 10MHz / 16QAM



Date: 2,NOV,2018 20:16:25