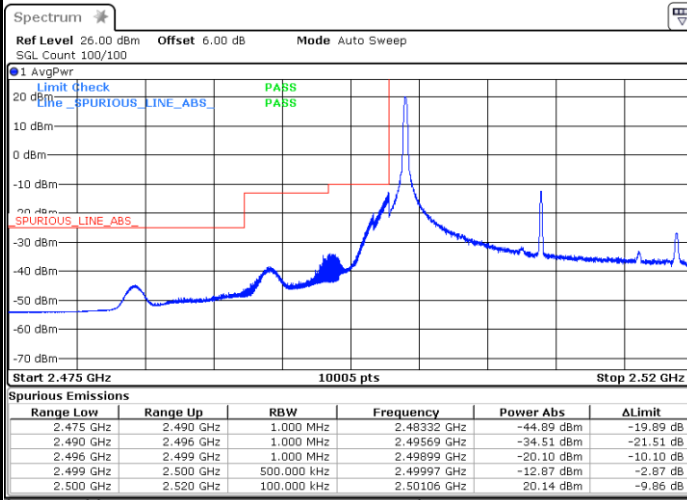




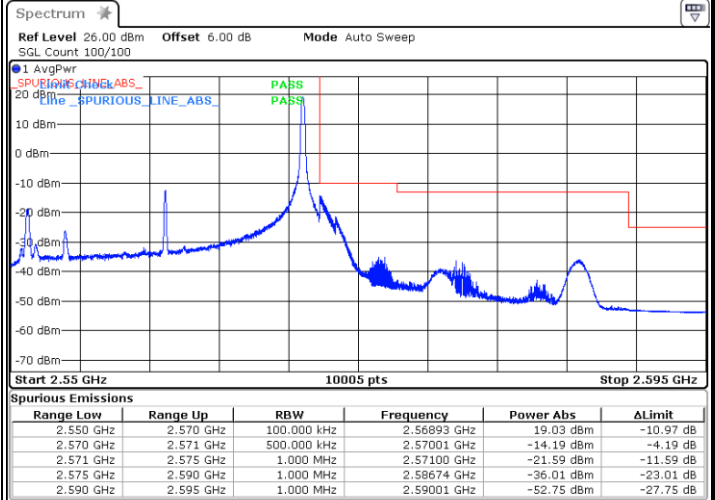
LTE Band 7 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



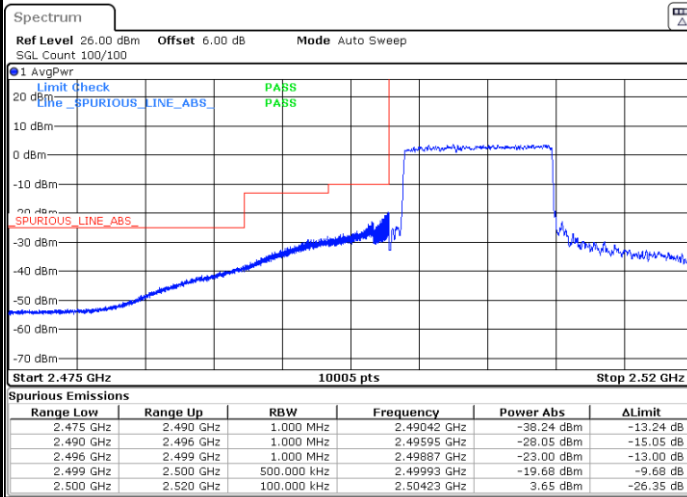
Date: 14.NOV.2019 17:56:29

Highest Band Edge / 1RB



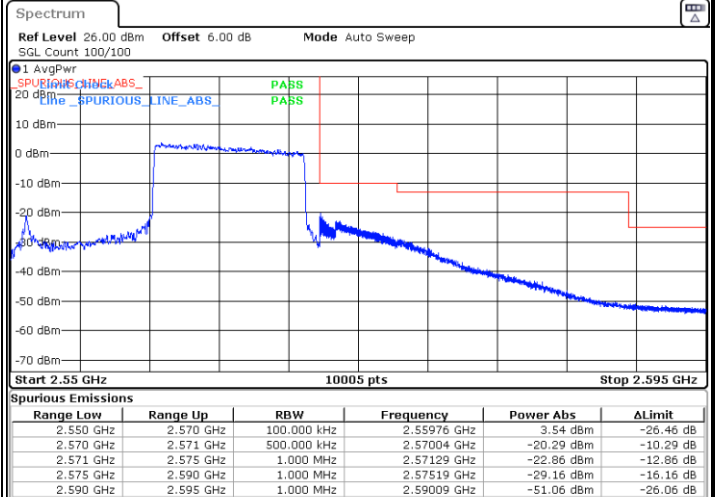
Date: 14.NOV.2019 17:57:59

Lowest Band Edge / Full RB



Date: 26.NOV.2019 09:29:00

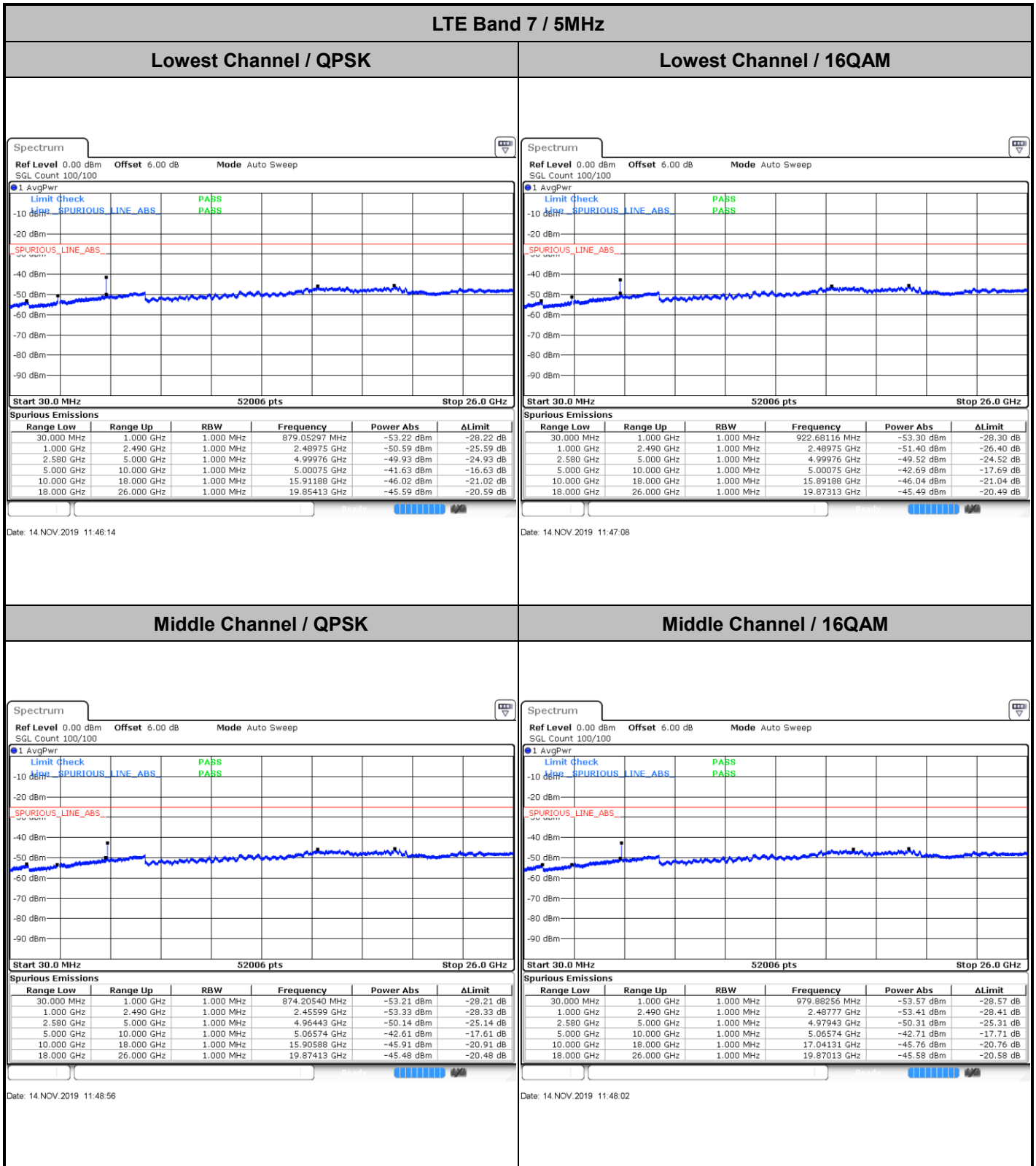
Highest Band Edge / Full RB



Date: 26.NOV.2019 09:13:14



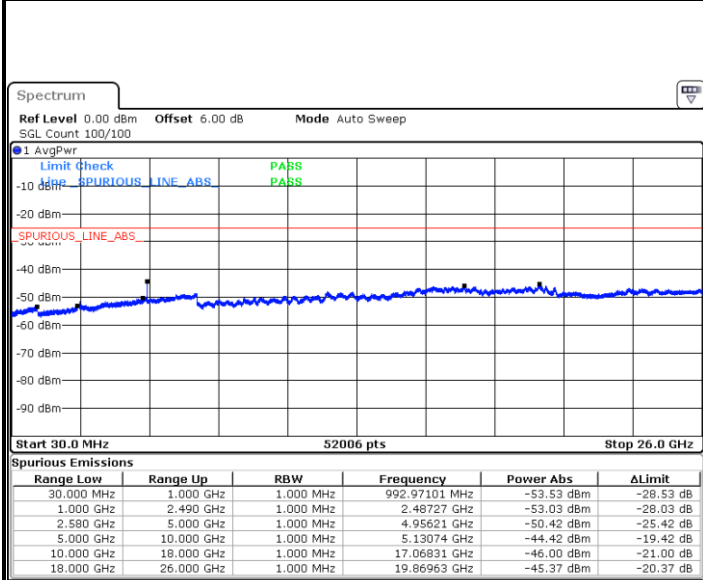
# Conducted Spurious Emission





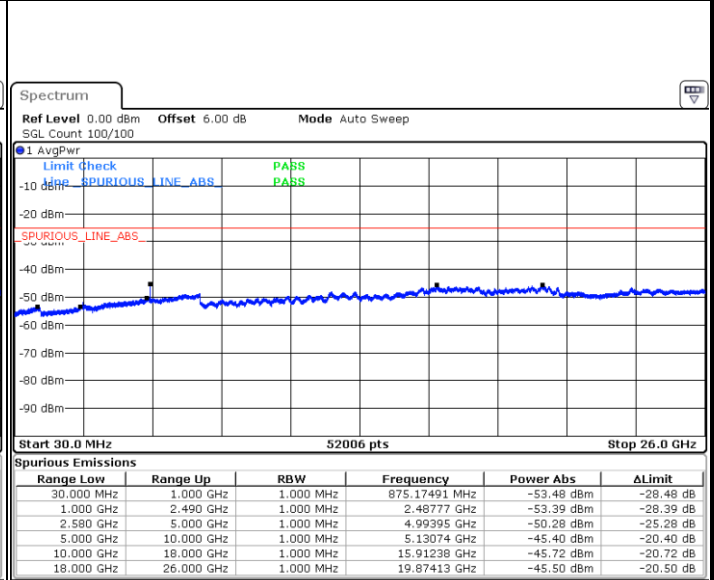
LTE Band 7 / 5MHz

Highest Channel / QPSK



Date: 14.NOV.2019 11:49:50

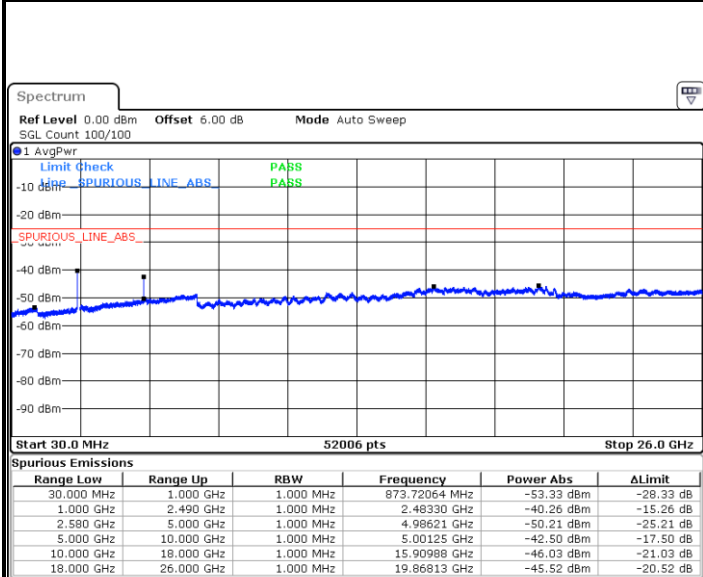
Highest Channel / 16QAM



Date: 14.NOV.2019 11:50:44

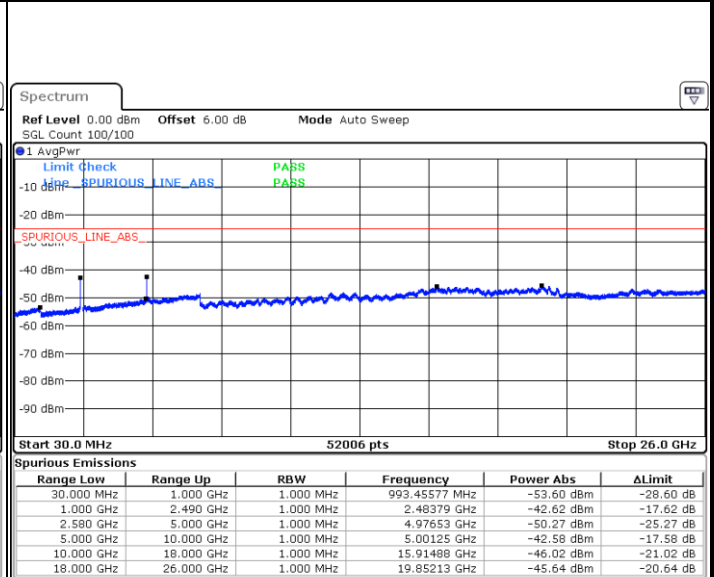
LTE Band 7 / 10MHz

Lowest Channel / QPSK



Date: 14.NOV.2019 12:02:44

Lowest Channel / 16QAM



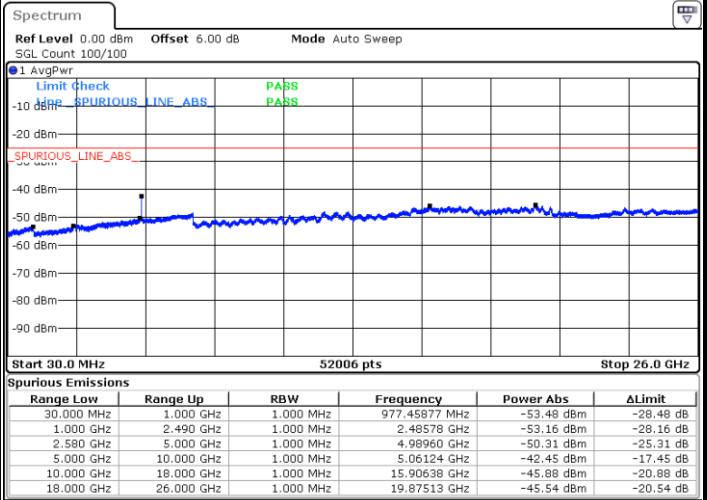
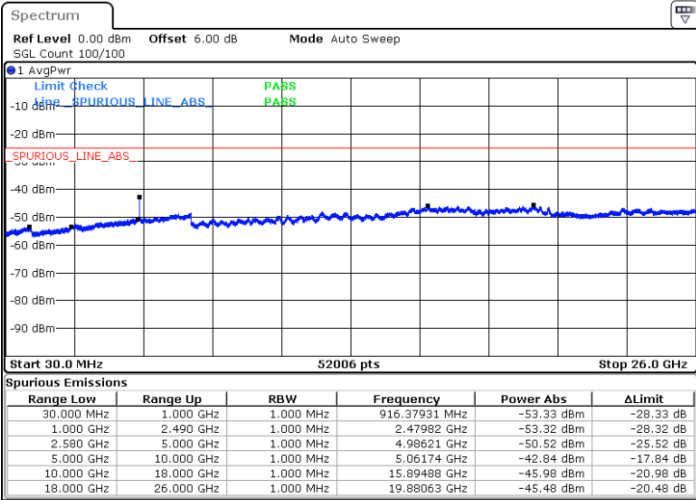
Date: 14.NOV.2019 12:03:38



LTE Band 7 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

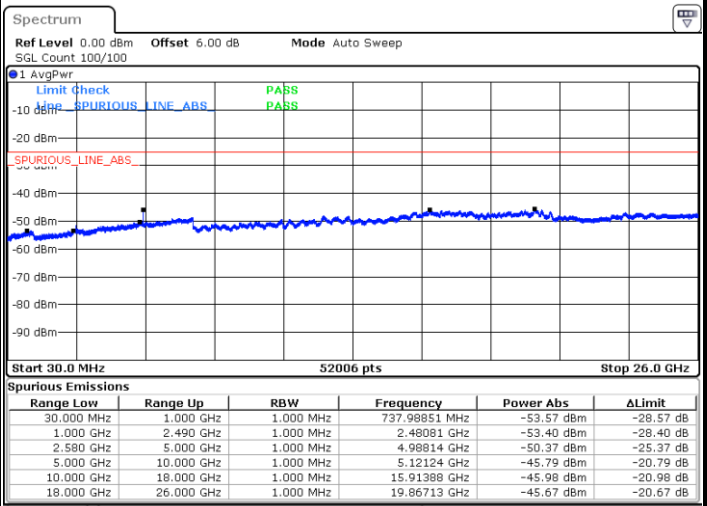
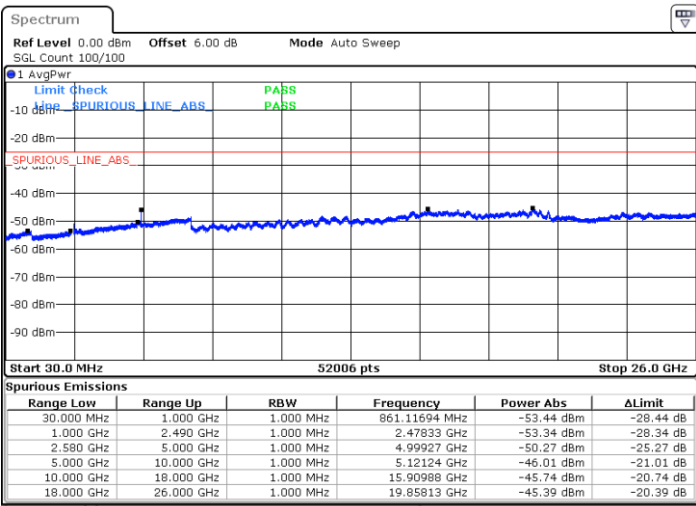


Date: 14.NOV.2019 12:05:25

Date: 14.NOV.2019 12:04:31

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 14.NOV.2019 12:06:19

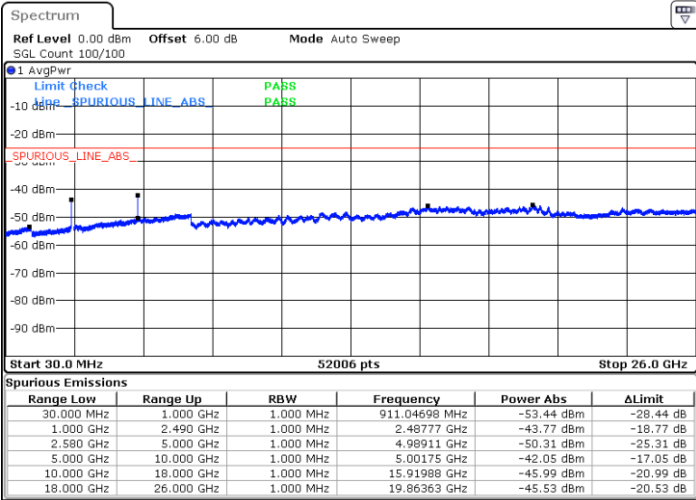
Date: 14.NOV.2019 12:07:13



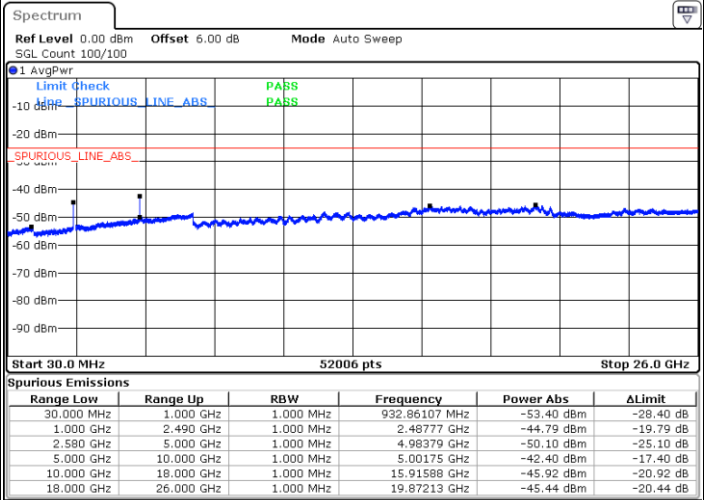
LTE Band 7 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



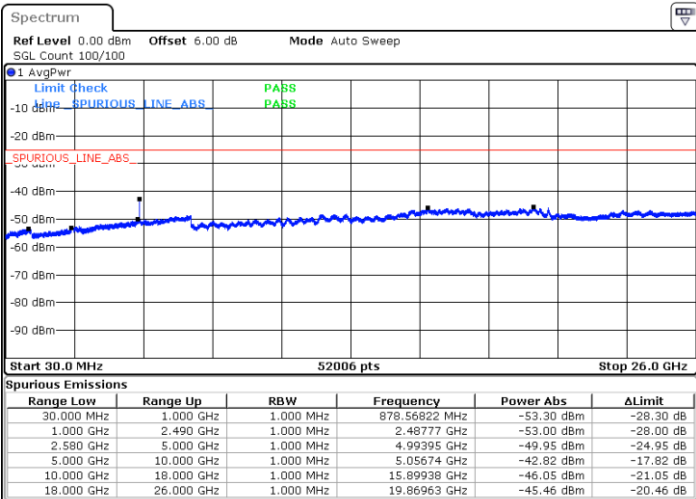
Date: 14.NOV.2019 13:52:06



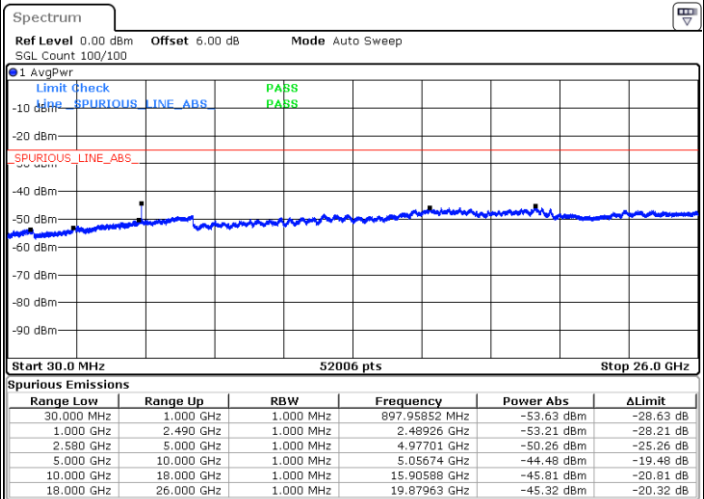
Date: 14.NOV.2019 13:53:00

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 14.NOV.2019 13:54:48

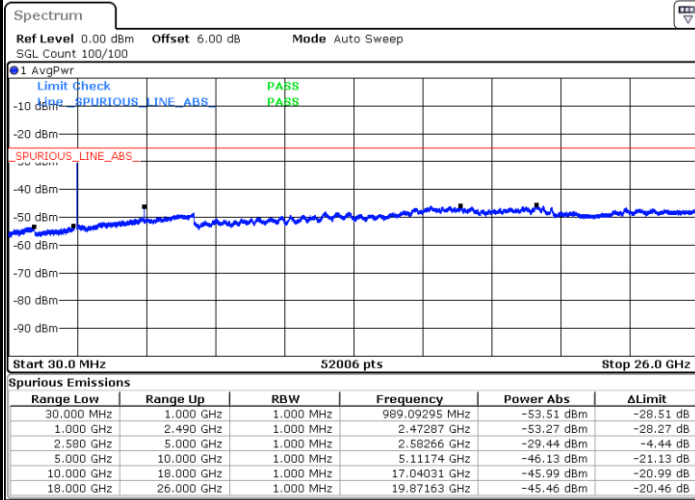


Date: 14.NOV.2019 13:53:54



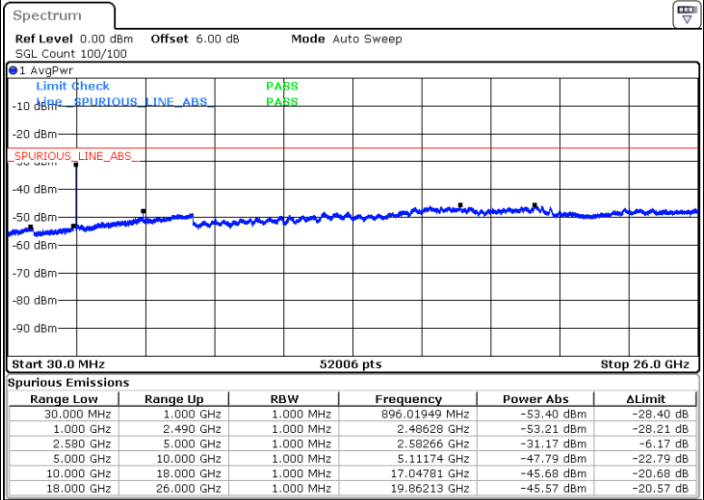
LTE Band 7 / 15MHz

Highest Channel / QPSK



Date: 14.NOV.2019 13:55:41

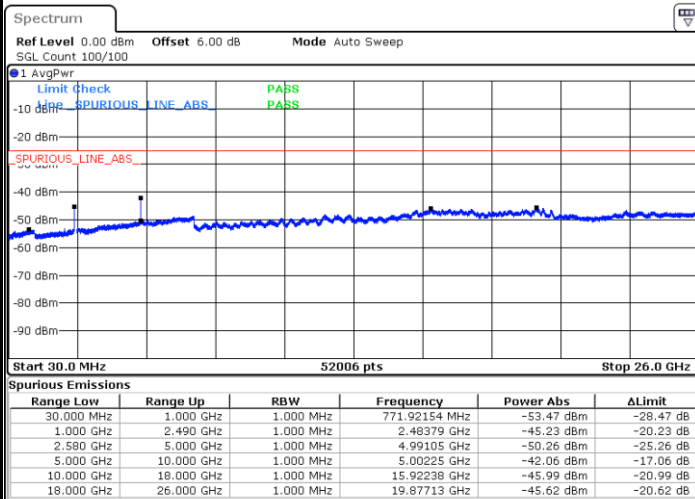
Highest Channel / 16QAM



Date: 14.NOV.2019 13:56:35

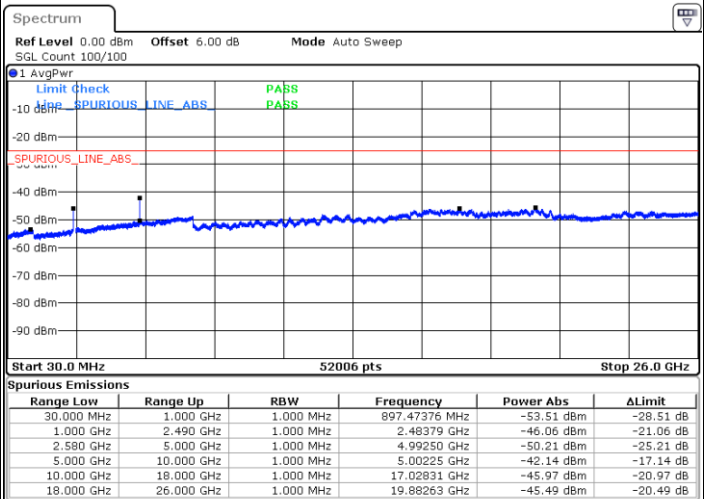
LTE Band 7 / 20MHz

Lowest Channel / QPSK



Date: 14.NOV.2019 14:02:02

Lowest Channel / 16QAM



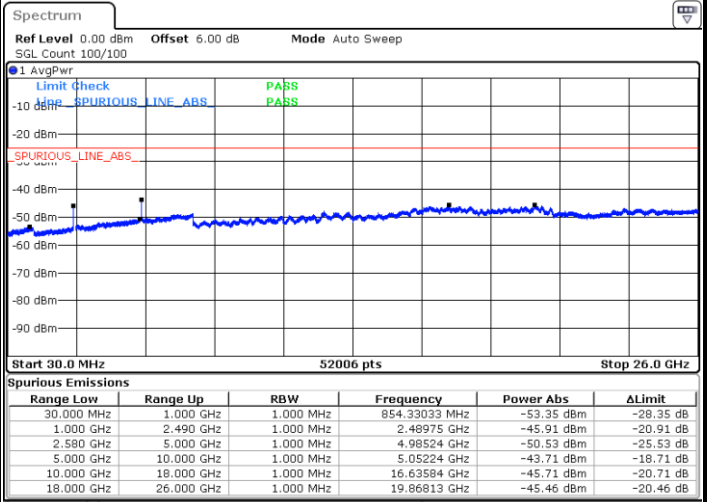
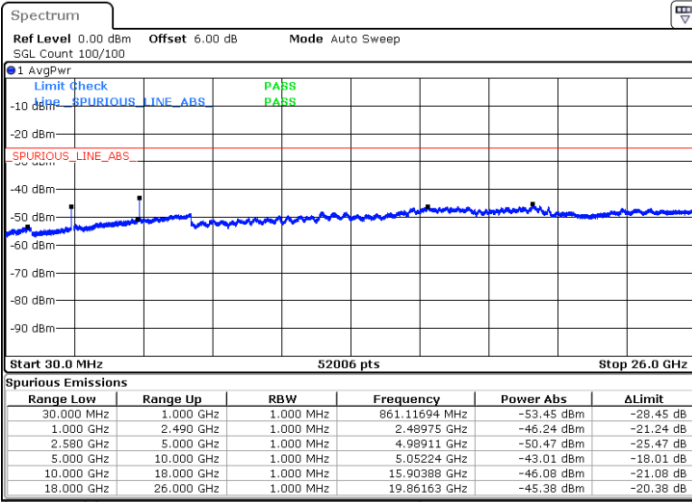
Date: 14.NOV.2019 14:02:56



LTE Band 7 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

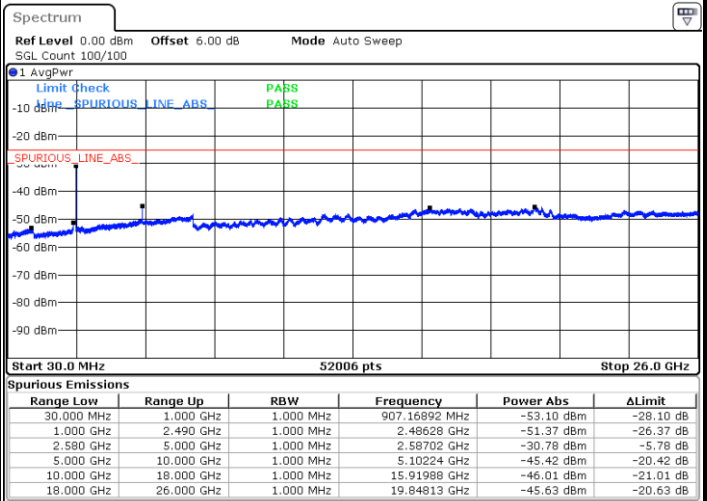
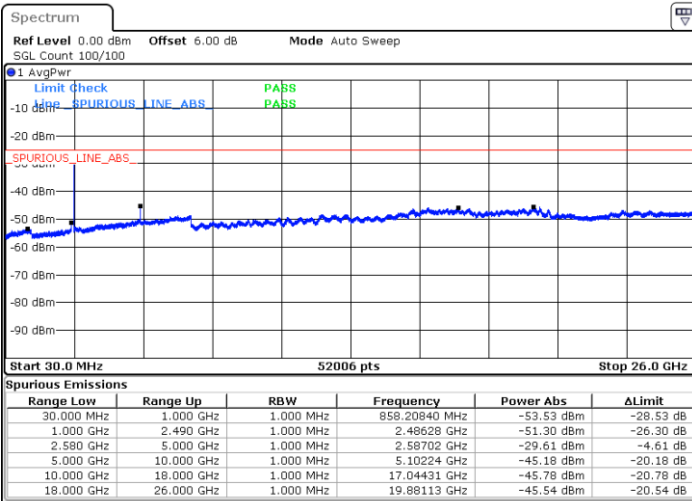


Date: 14.NOV.2019 14:04:44

Date: 14.NOV.2019 14:03:50

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 14.NOV.2019 14:05:38

Date: 14.NOV.2019 14:06:32



### 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	0.0034	PASS
40	Normal Voltage	0.0024	
30	Normal Voltage	0.0040	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0025	
0	Normal Voltage	0.0038	
-10	Normal Voltage	0.0007	
-20	Normal Voltage	0.0010	
-30	Normal Voltage	0.0026	
20	Maximum Voltage	0.0012	
20	Normal Voltage	0.0030	
20	Battery End Point	0.0033	

**Note:**

1. Normal Voltage =3.9 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.2 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.





## LTE Band 38

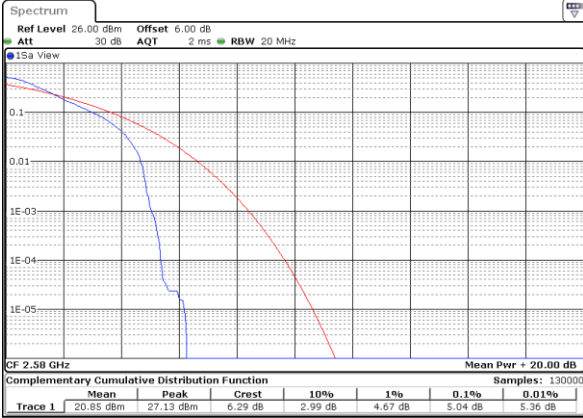
### Peak-to-Average Ratio

Mode	LTE Band 38 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	5.04	6.17	6.26	6.49	<b>PASS</b>
Middle CH	4.75	6.52	6.06	6.41	
Highest CH	5.68	6.32	6.81	6.75	



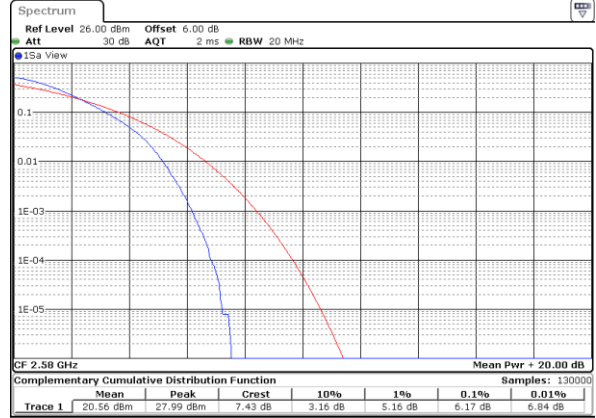
LTE Band 38 / 20MHz / QPSK

Lowest Channel / 1RB



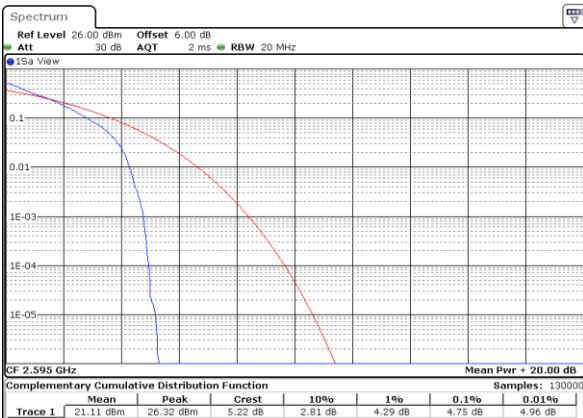
Date: 16 NOV 2019 10:50:46

Lowest Channel / Full RB



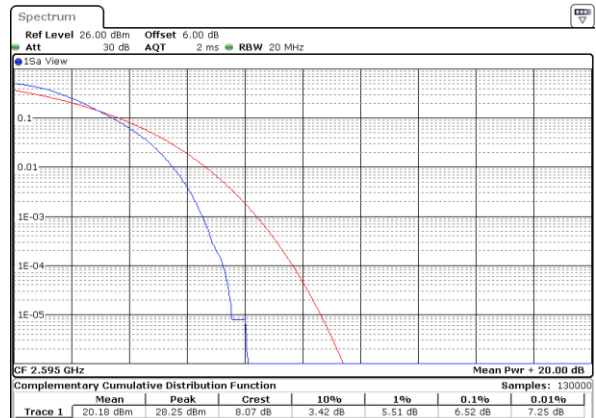
Date: 16 NOV 2019 10:56:04

Middle Channel / 1RB



Date: 16 NOV 2019 10:51:46

Middle Channel / Full RB



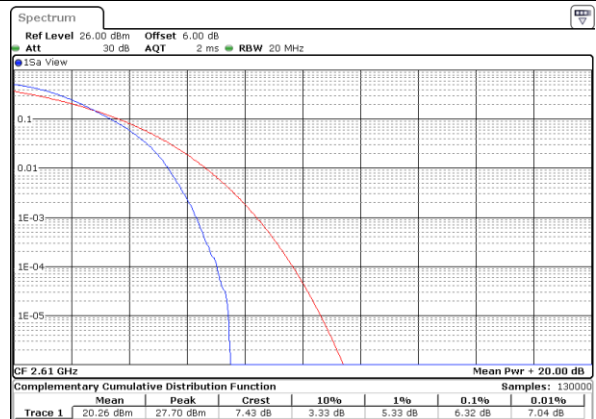
Date: 16 NOV 2019 10:56:19

Highest Channel / 1RB



Date: 16 NOV 2019 10:52:08

Highest Channel / Full RB

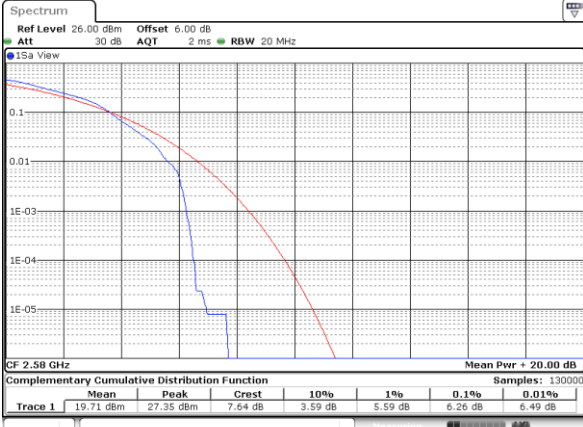


Date: 16 NOV 2019 10:56:36



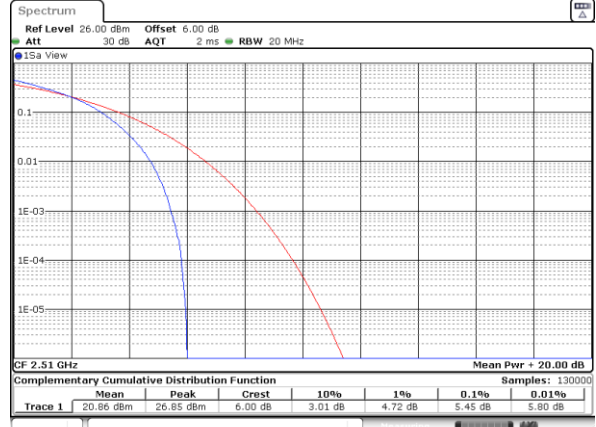
LTE Band 38 / 20MHz / 16QAM

Lowest Channel / 1RB



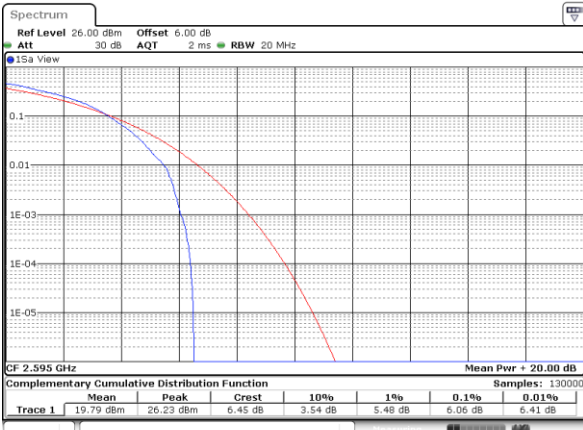
Date: 16 NOV 2019 10:54:05

Lowest Channel / Full RB



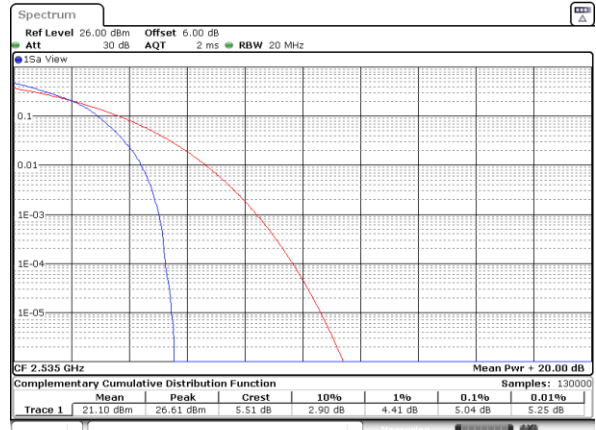
Date: 26 NOV 2019 09:15:18

Middle Channel / 1RB



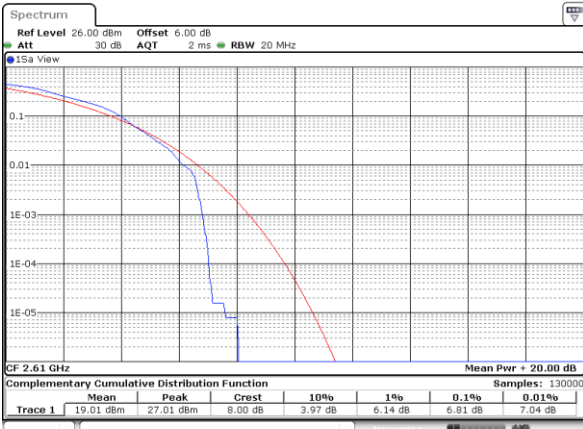
Date: 16 NOV 2019 10:53:47

Middle Channel / Full RB



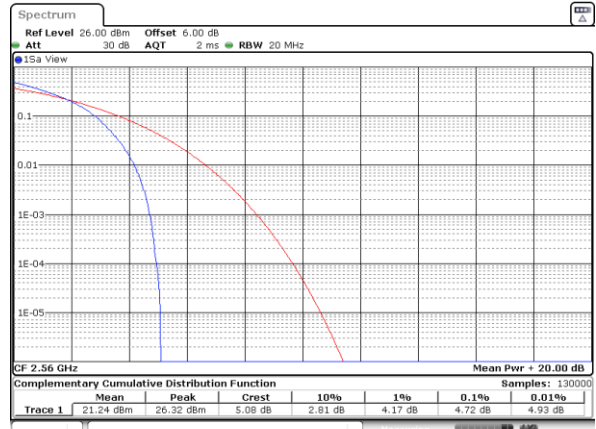
Date: 26 NOV 2019 09:13:38

Highest Channel / 1RB



Date: 16 NOV 2019 10:53:30

Highest Channel / Full RB



Date: 26 NOV 2019 09:12:41



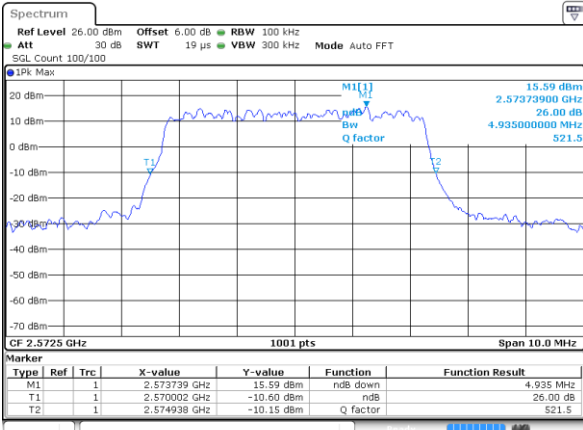
26dB Bandwidth

Mode	LTE Band 38 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW												
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.935	4.875	9.65	9.57	15.944	13.516	20.739	11.908
Middle CH	-	-	-	-	4.885	4.955	9.59	9.63	15.674	12.977	20.14	16.304
Highest CH	-	-	-	-	4.815	4.825	9.65	9.61	14.655	10.40	21.419	11.908



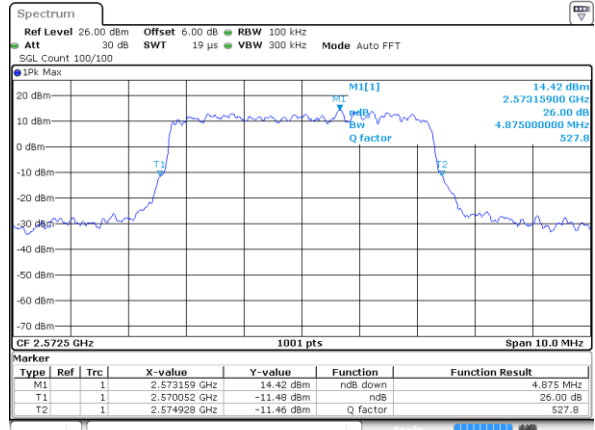
LTE Band 38

Lowest Channel / 5MHz / QPSK



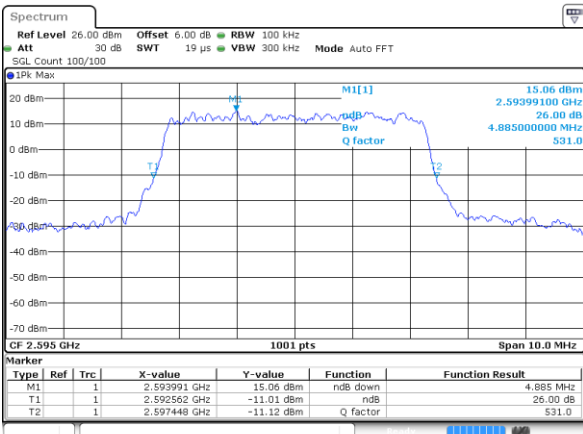
Date: 15 NOV 2019 15:33:44

Lowest Channel / 5MHz / 16QAM



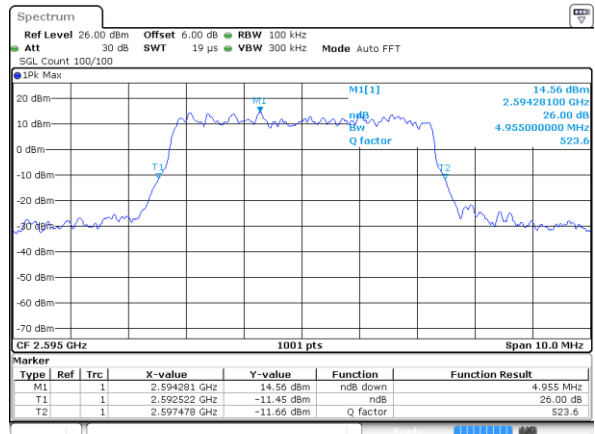
Date: 15 NOV 2019 15:33:54

Middle Channel / 5MHz / QPSK



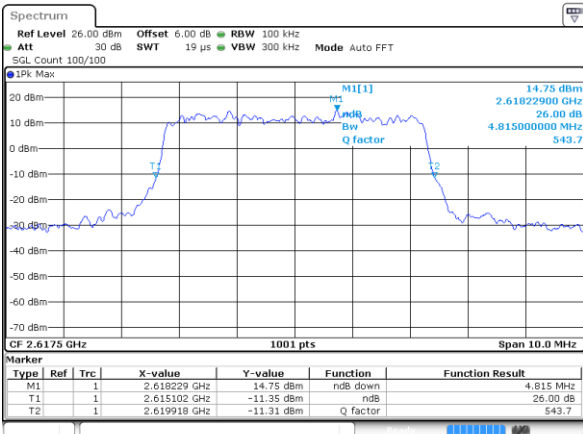
Date: 15 NOV 2019 15:34:25

Middle Channel / 5MHz / 16QAM



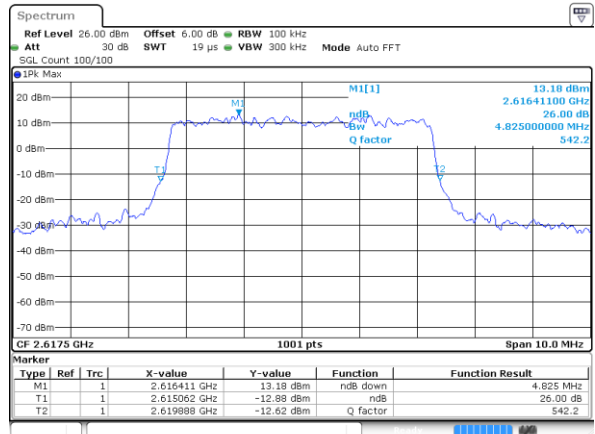
Date: 15 NOV 2019 15:34:35

Highest Channel / 5MHz / QPSK



Date: 15 NOV 2019 15:35:05

Highest Channel / 5MHz / 16QAM

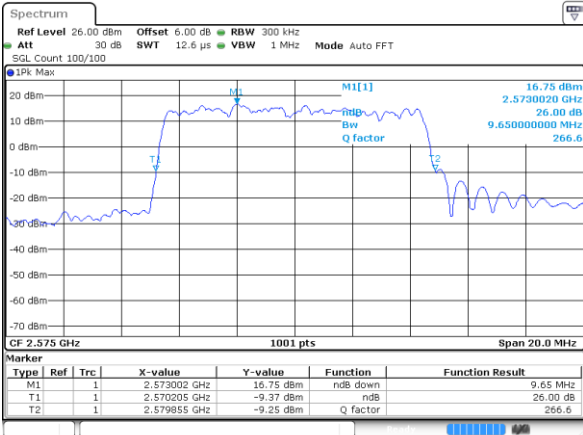


Date: 15 NOV 2019 15:35:15



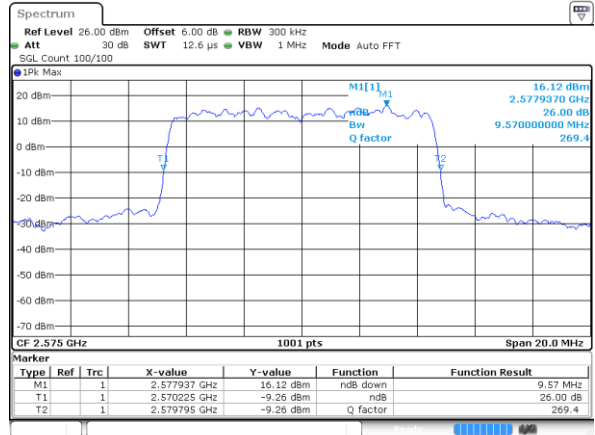
LTE Band 38

Lowest Channel / 10MHz / QPSK



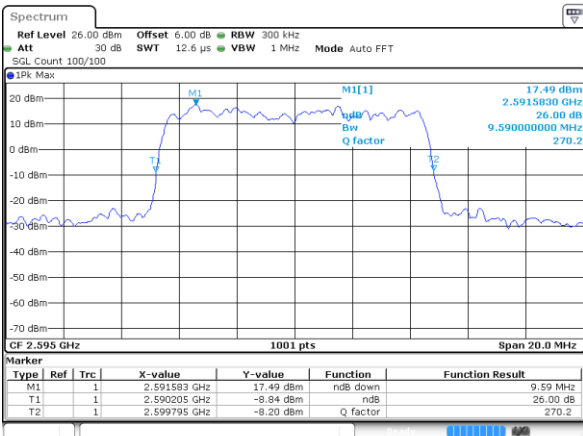
Date: 15 NOV 2019 15:35:45

Lowest Channel / 10MHz / 16QAM



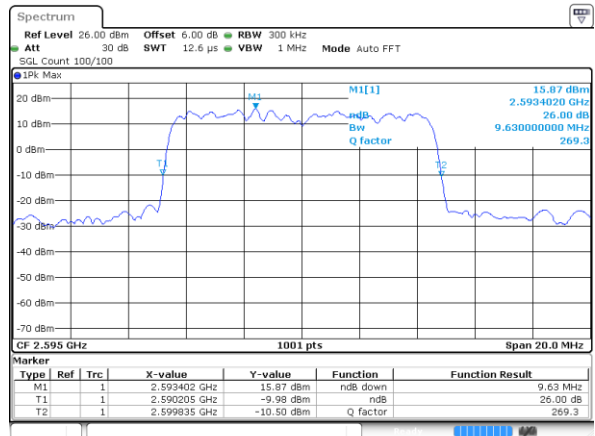
Date: 15 NOV 2019 15:35:55

Middle Channel / 10MHz / QPSK



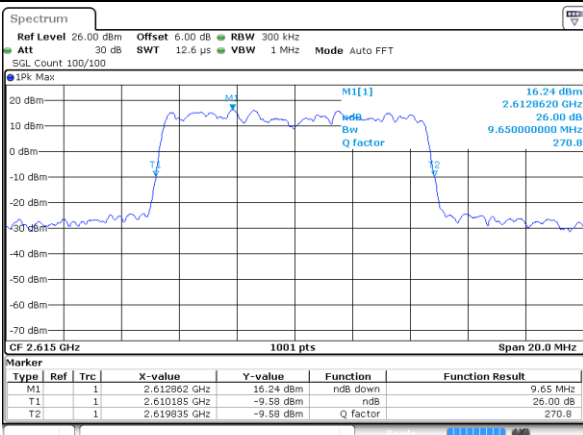
Date: 15 NOV 2019 15:36:26

Middle Channel / 10MHz / 16QAM



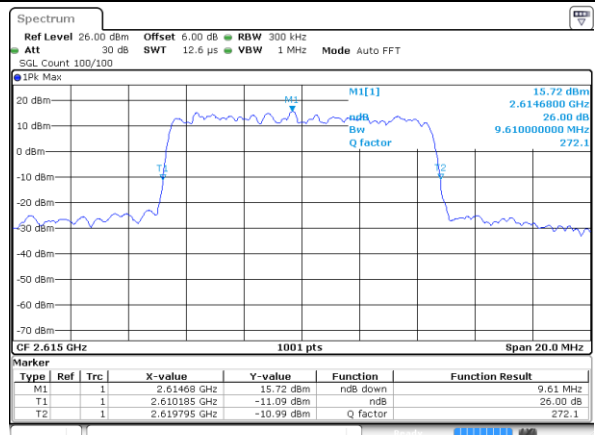
Date: 15 NOV 2019 15:36:36

Highest Channel / 10MHz / QPSK



Date: 15 NOV 2019 15:37:06

Highest Channel / 10MHz / 16QAM

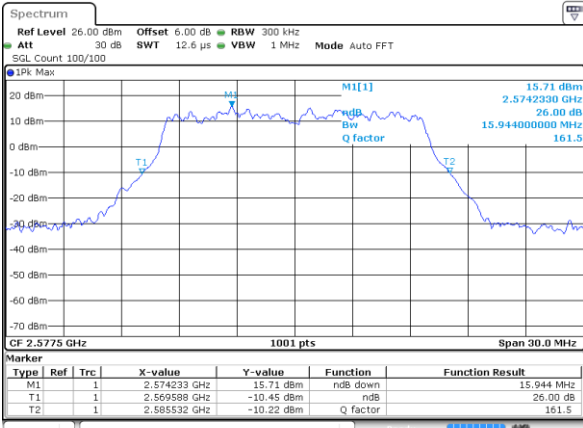


Date: 15 NOV 2019 15:37:16



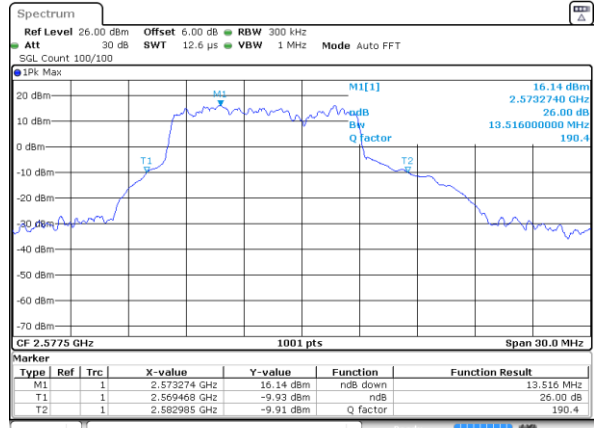
LTE Band 38

Lowest Channel / 15MHz / QPSK



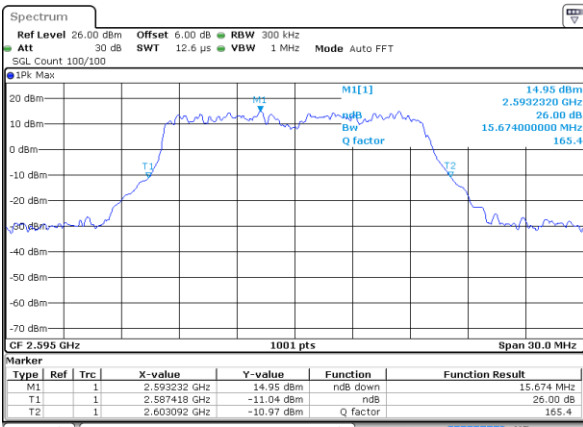
Date: 15 NOV 2019 15:37:36

Lowest Channel / 15MHz / 16QAM



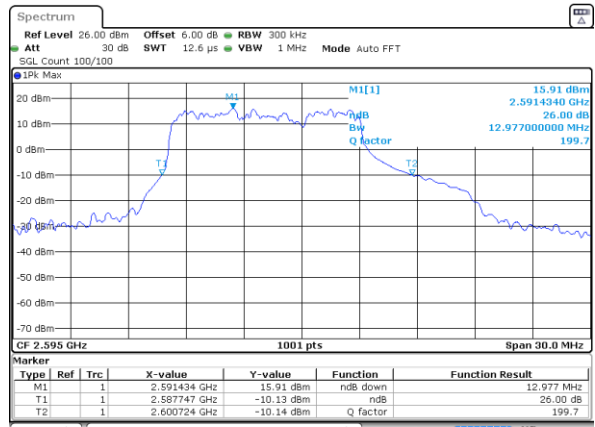
Date: 26 NOV 2019 09:19:44

Middle Channel / 15MHz / QPSK



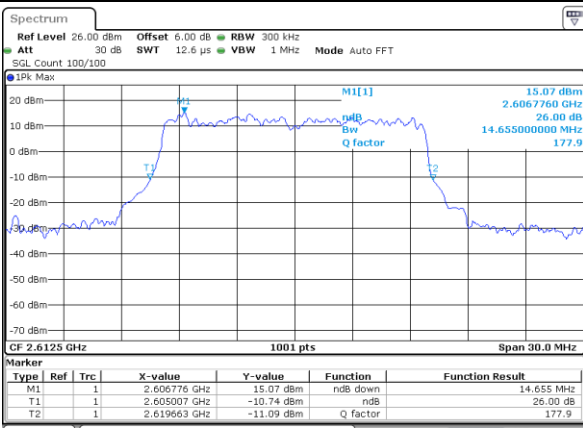
Date: 15 NOV 2019 15:37:56

Middle Channel / 15MHz / 16QAM



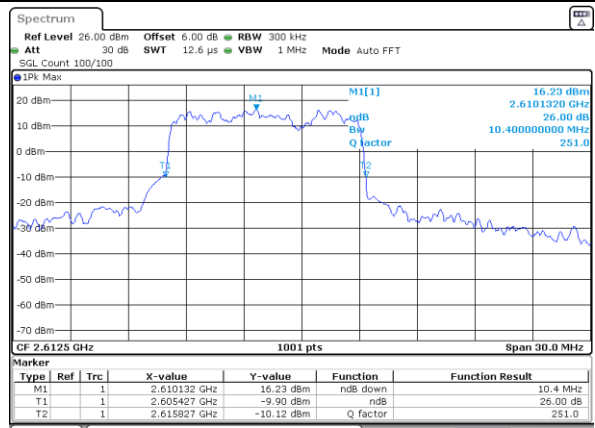
Date: 26 NOV 2019 09:20:12

Highest Channel / 15MHz / QPSK



Date: 15 NOV 2019 15:38:16

Highest Channel / 15MHz / 16QAM

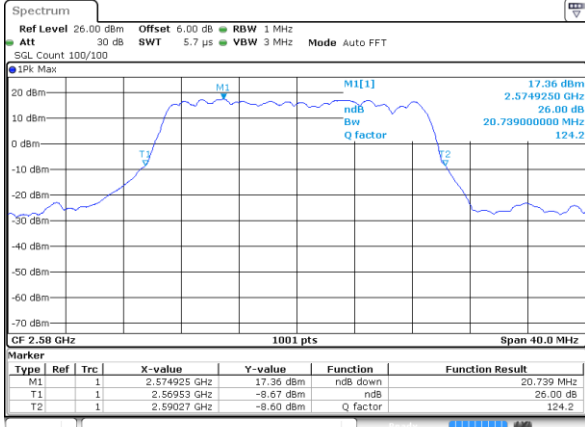


Date: 26 NOV 2019 09:20:36



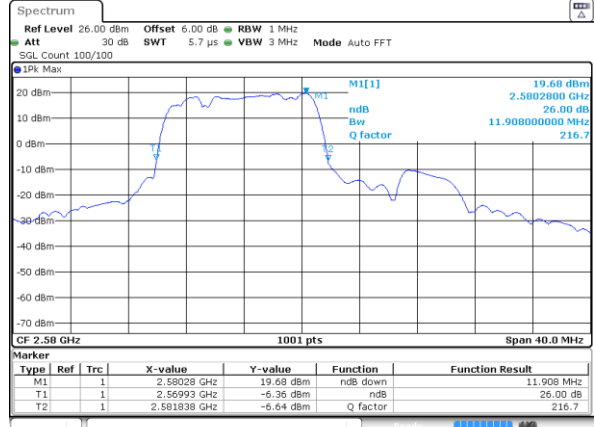
LTE Band 38

Lowest Channel / 20MHz / QPSK



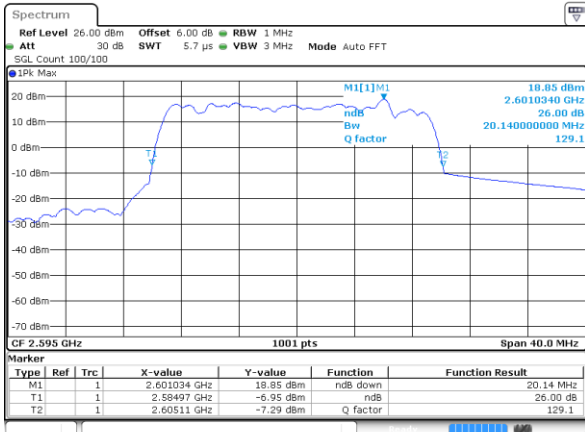
Date: 15 NOV 2019 15:38:36

Lowest Channel / 20MHz / 16QAM



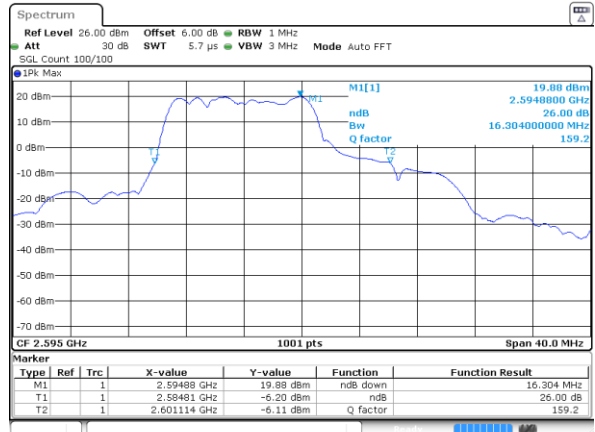
Date: 26 NOV 2019 09:26:04

Middle Channel / 20MHz / QPSK



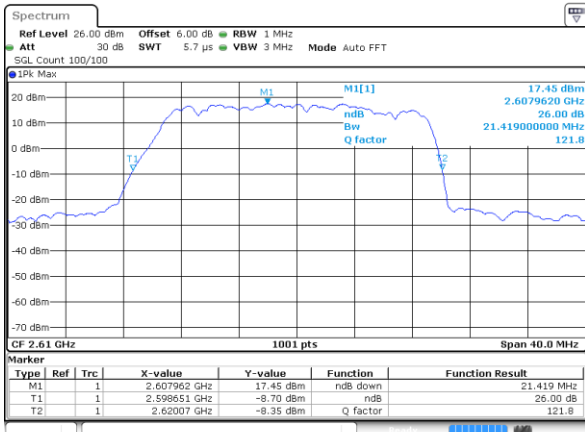
Date: 15 NOV 2019 15:38:56

Middle Channel / 20MHz / 16QAM



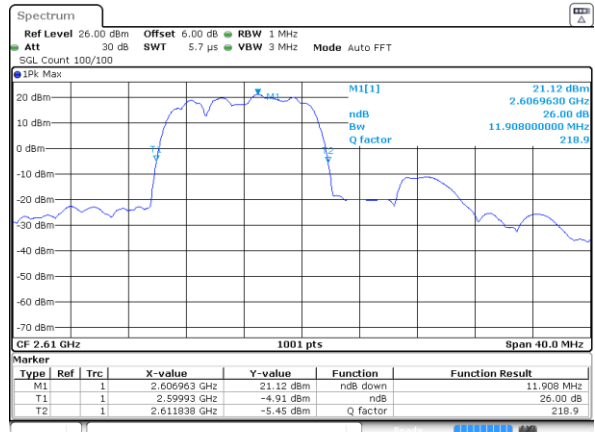
Date: 26 NOV 2019 09:25:12

Highest Channel / 20MHz / QPSK



Date: 15 NOV 2019 15:39:16

Highest Channel / 20MHz / 16QAM



Date: 26 NOV 2019 09:24:29





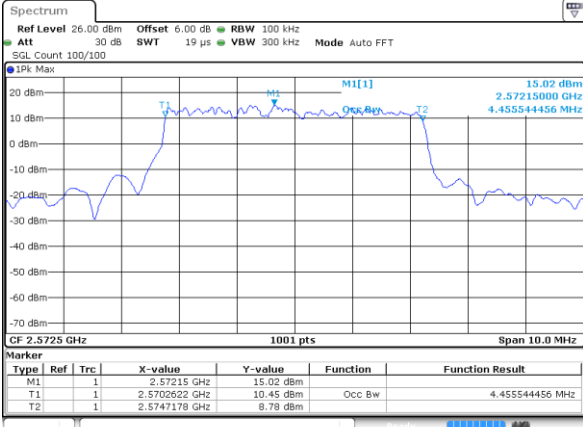
### Occupied Bandwidth

Mode	LTE Band 38 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW												
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.46	4.48	8.91	8.97	13.40	9.95	18.34	10.71
Middle CH	-	-	-	-	4.47	4.46	9.01	8.99	13.40	9.77	18.30	10.43
Highest CH	-	-	-	-	4.47	4.50	8.95	8.93	13.37	9.71	18.34	10.43



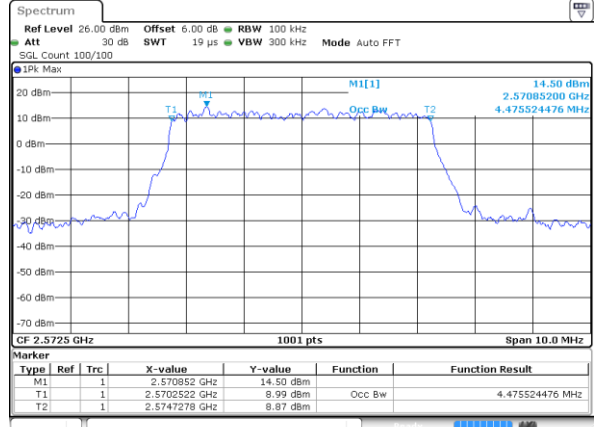
LTE Band 38

Lowest Channel / 5MHz / QPSK



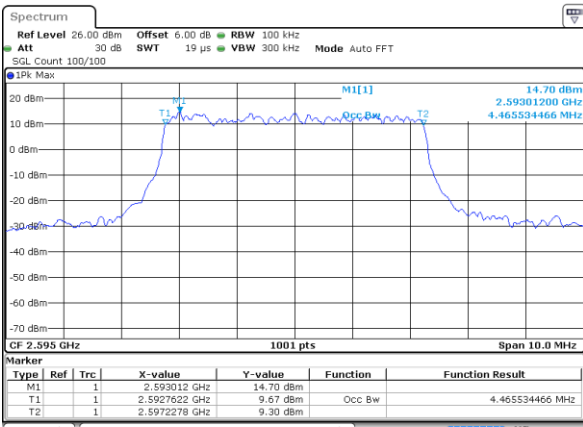
Date: 15 NOV 2019 15:33:24

Lowest Channel / 5MHz / 16QAM



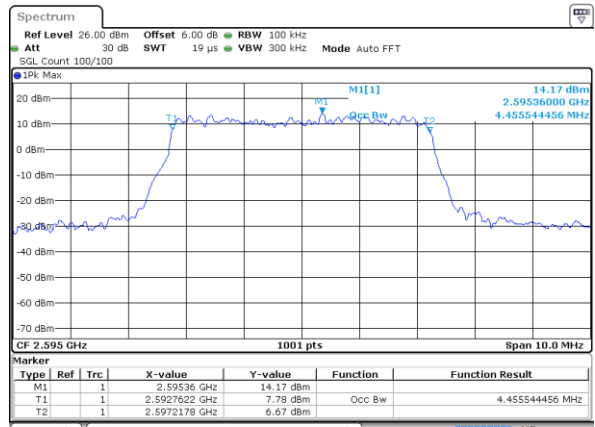
Date: 15 NOV 2019 15:33:34

Middle Channel / 5MHz / QPSK



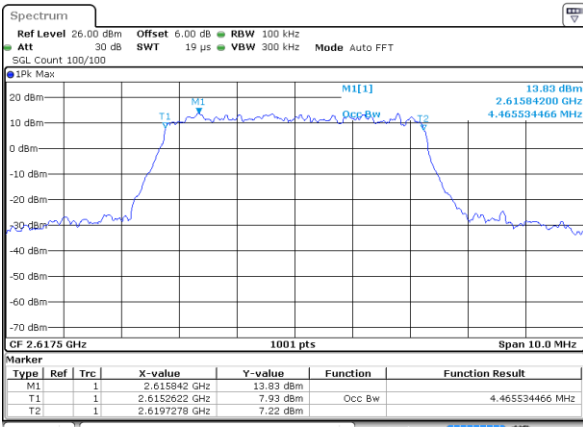
Date: 15 NOV 2019 15:34:05

Middle Channel / 5MHz / 16QAM



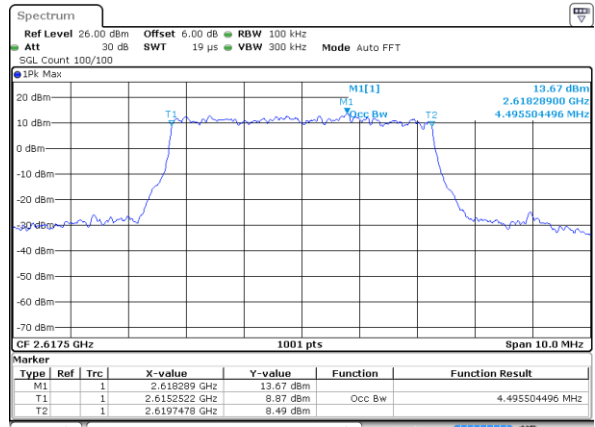
Date: 15 NOV 2019 15:34:15

Highest Channel / 5MHz / QPSK



Date: 15 NOV 2019 15:34:45

Highest Channel / 5MHz / 16QAM

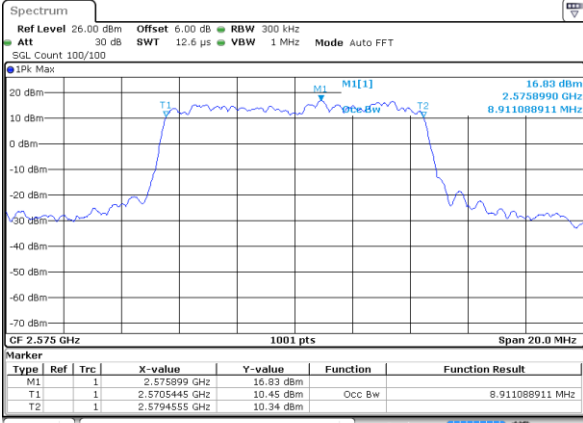


Date: 15 NOV 2019 15:34:55



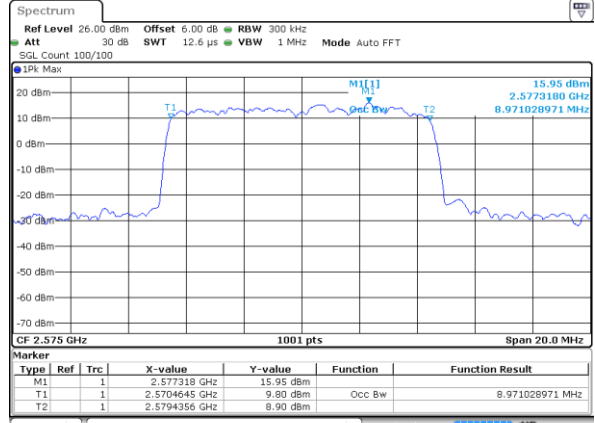
LTE Band 38

Lowest Channel / 10MHz / QPSK



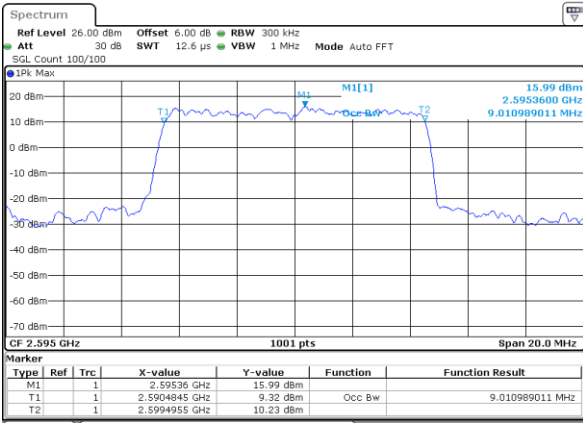
Date: 15 NOV 2019 15:35:25

Lowest Channel / 10MHz / 16QAM



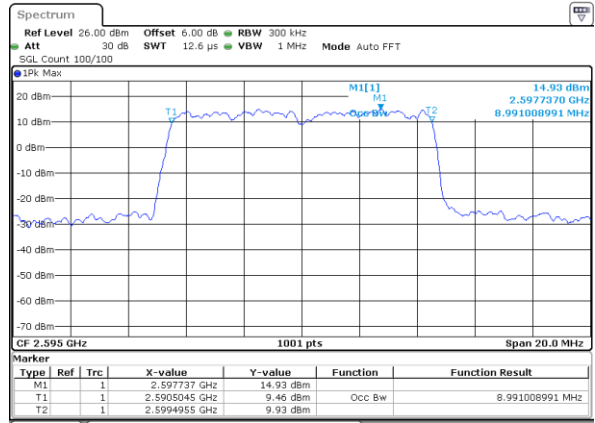
Date: 15 NOV 2019 15:35:35

Middle Channel / 10MHz / QPSK



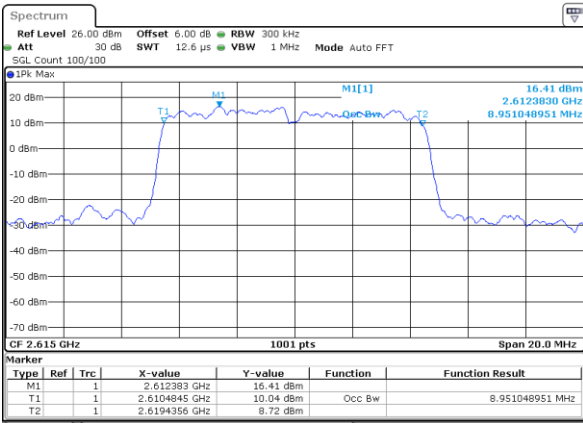
Date: 15 NOV 2019 15:36:05

Middle Channel / 10MHz / 16QAM



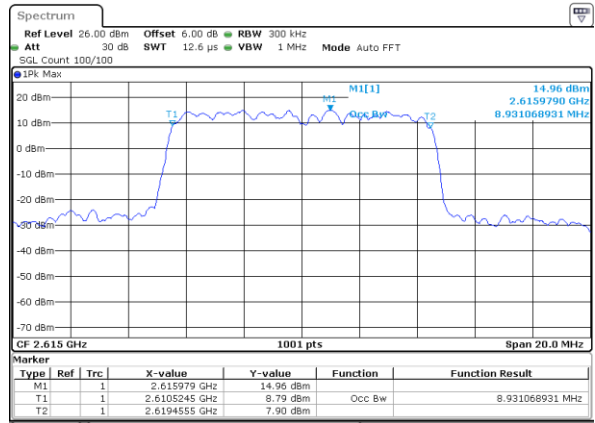
Date: 15 NOV 2019 15:36:15

Highest Channel / 10MHz / QPSK



Date: 15 NOV 2019 15:36:46

Highest Channel / 10MHz / 16QAM

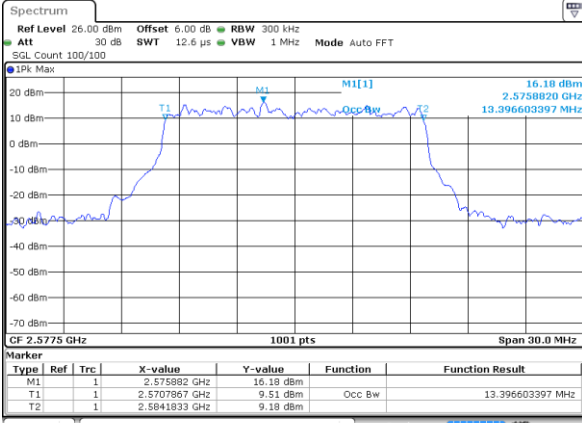


Date: 15 NOV 2019 15:36:56



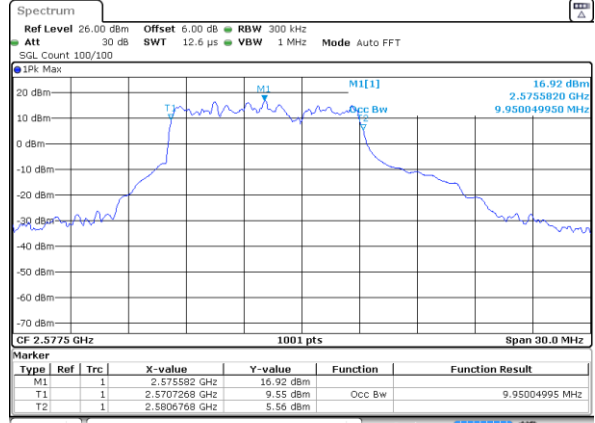
LTE Band 38

Lowest Channel / 15MHz / QPSK



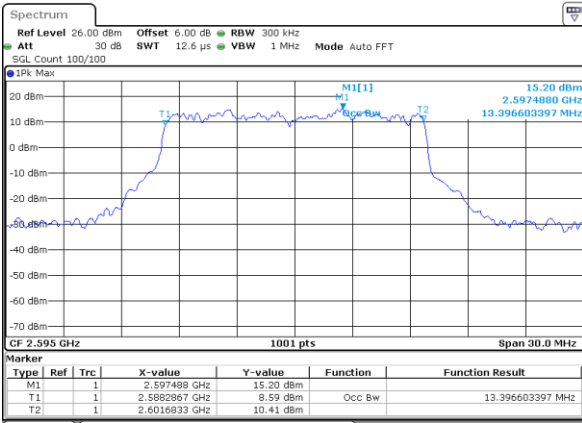
Date: 15 NOV 2019 15:37:26

Lowest Channel / 15MHz / 16QAM



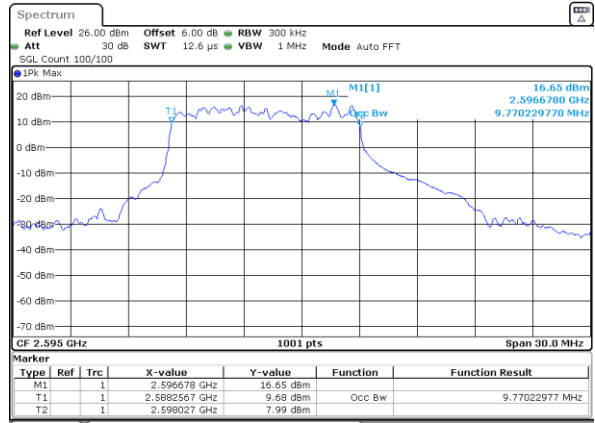
Date: 26 NOV 2019 09:19:36

Middle Channel / 15MHz / QPSK



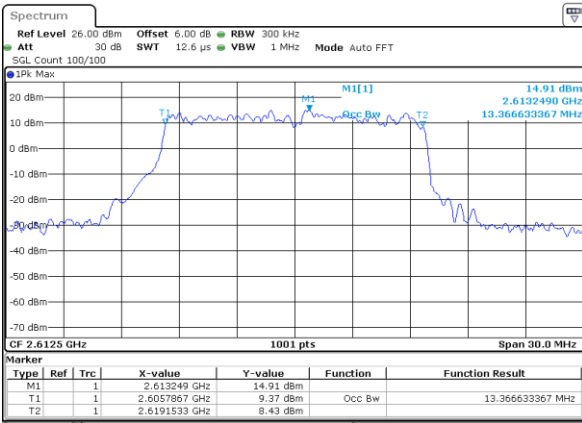
Date: 15 NOV 2019 15:37:46

Middle Channel / 15MHz / 16QAM



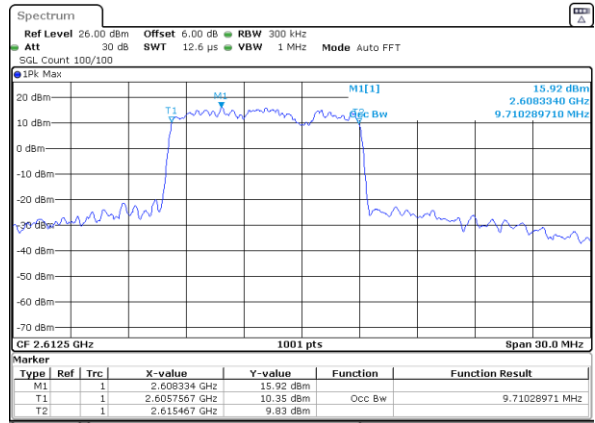
Date: 26 NOV 2019 09:20:04

Highest Channel / 15MHz / QPSK



Date: 15 NOV 2019 15:38:06

Highest Channel / 15MHz / 16QAM

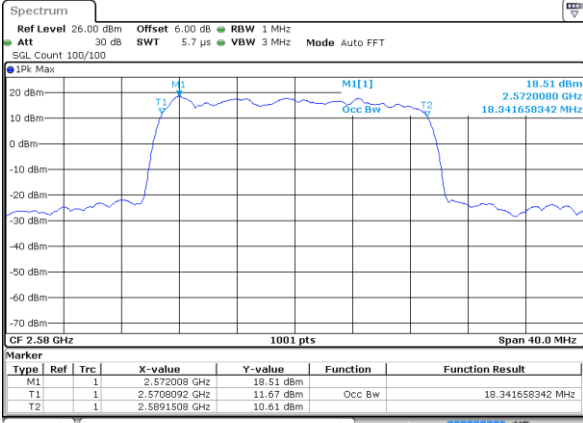


Date: 26 NOV 2019 09:20:28



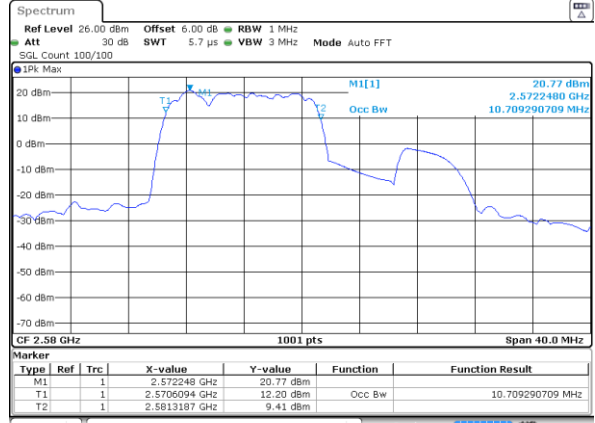
LTE Band 38

Lowest Channel / 20MHz / QPSK



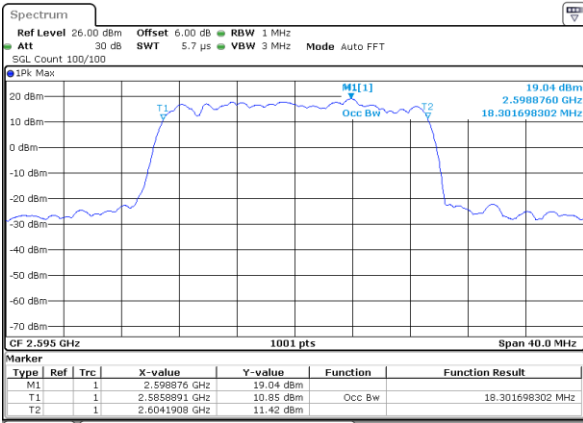
Date: 15 NOV 2019 15:38:26

Lowest Channel / 20MHz / 16QAM



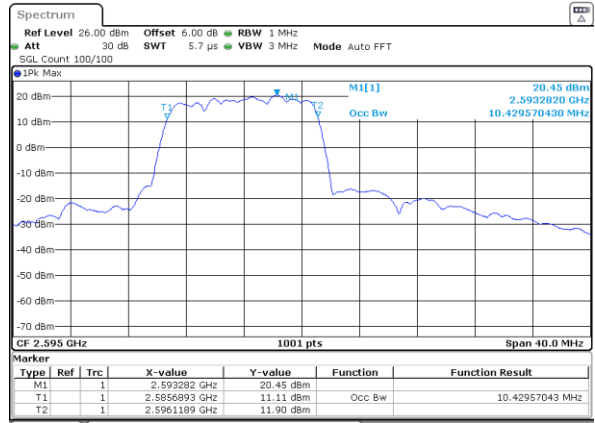
Date: 26 NOV 2019 09:25:57

Middle Channel / 20MHz / QPSK



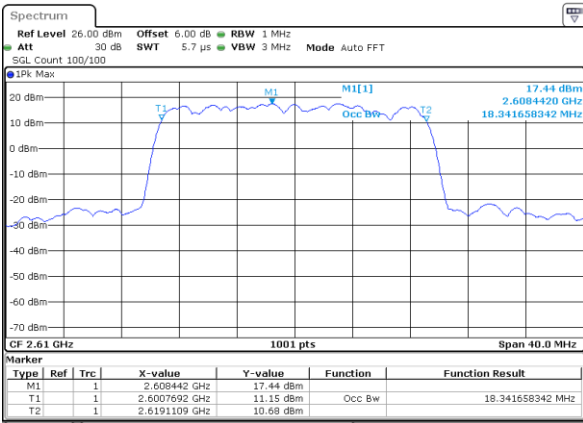
Date: 15 NOV 2019 15:38:46

Middle Channel / 20MHz / 16QAM



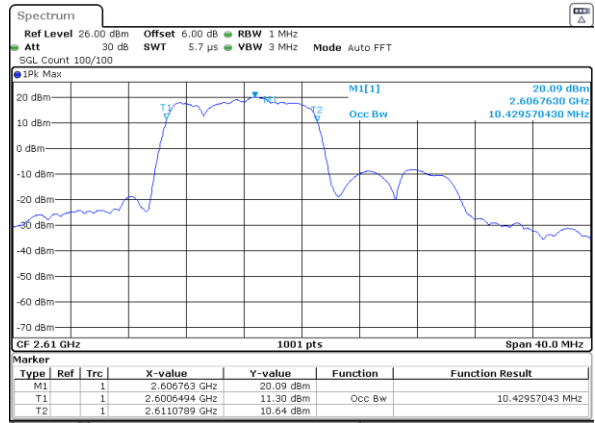
Date: 26 NOV 2019 09:25:05

Highest Channel / 20MHz / QPSK



Date: 15 NOV 2019 15:39:06

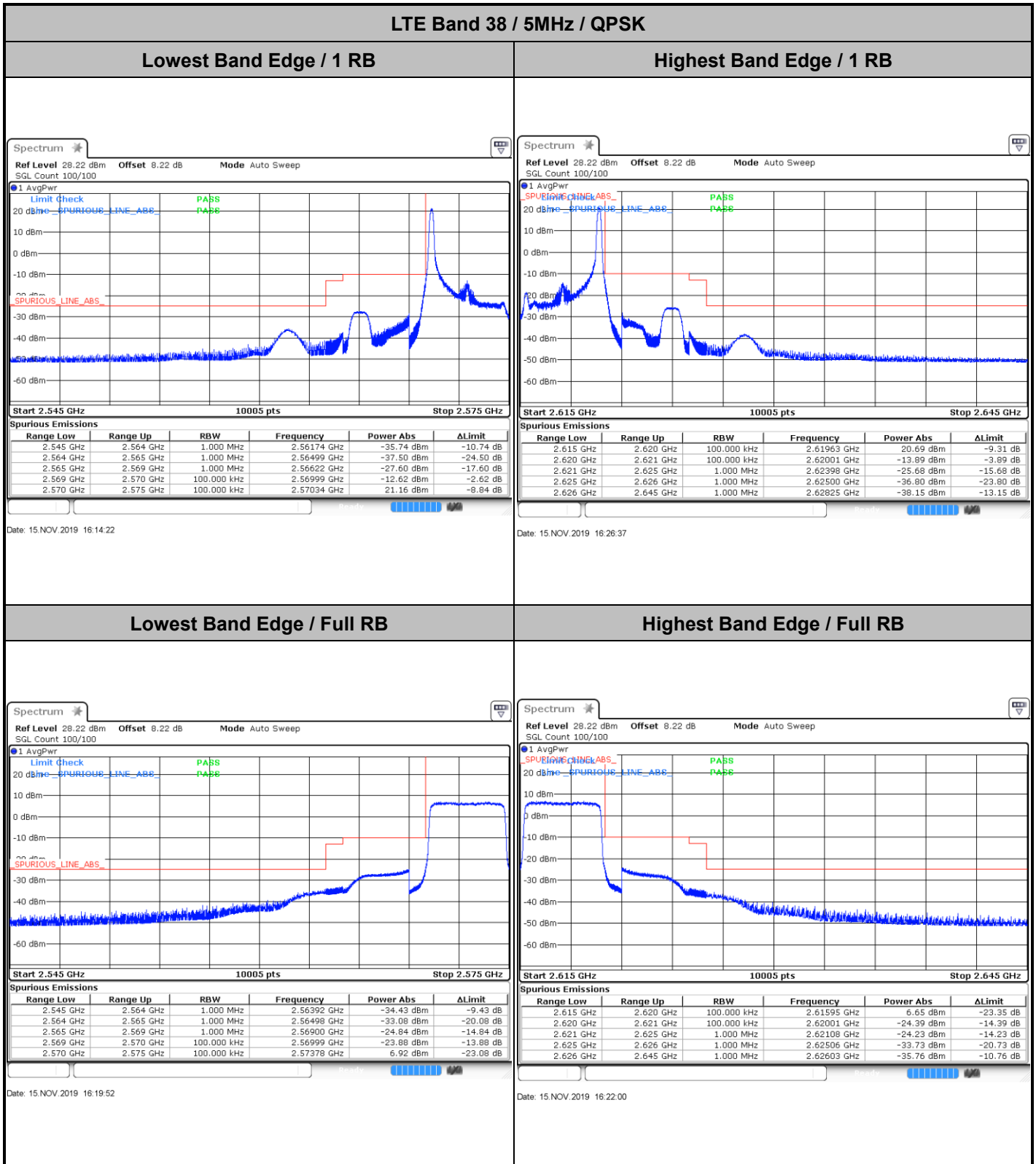
Highest Channel / 20MHz / 16QAM



Date: 26 NOV 2019 09:24:20



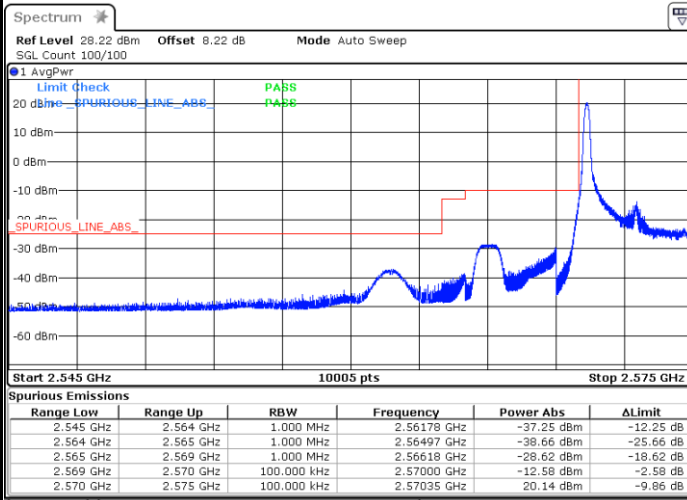
# Conducted Band Edge





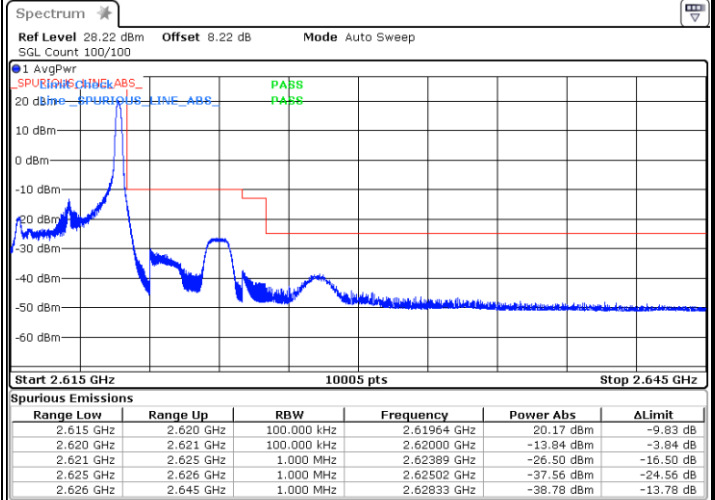
LTE Band 38 / 5MHz / 16QAM

Lowest Band Edge / 1RB



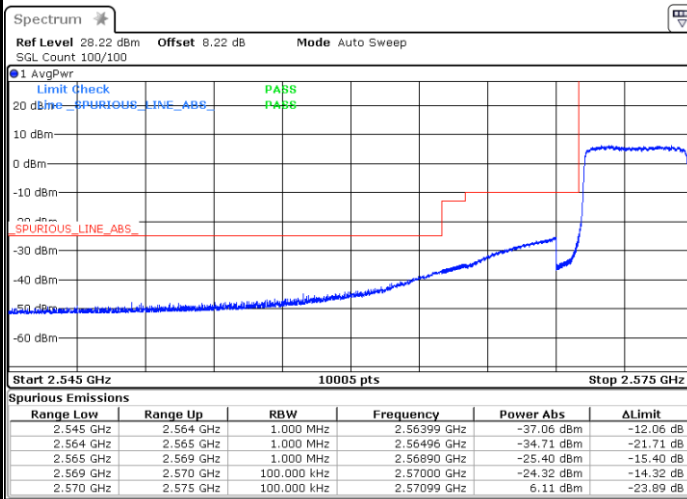
Date: 15.NOV.2019 16:15:50

Highest Band Edge / 1 RB



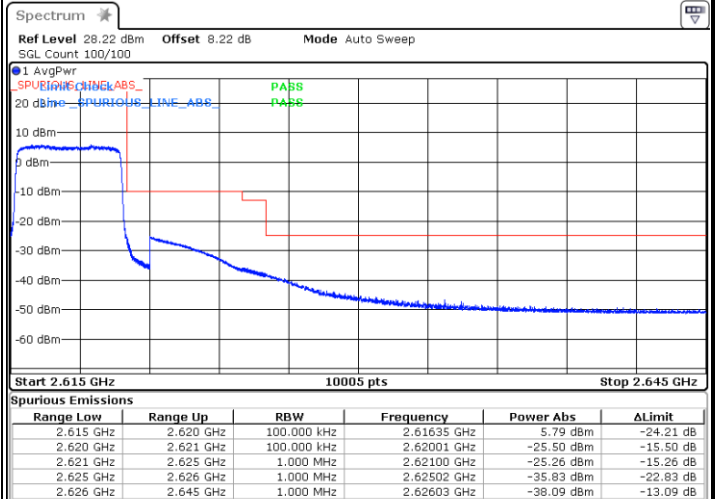
Date: 15.NOV.2019 16:25:13

Lowest Band Edge / Full RB



Date: 15.NOV.2019 16:17:17

Highest Band Edge / Full RB



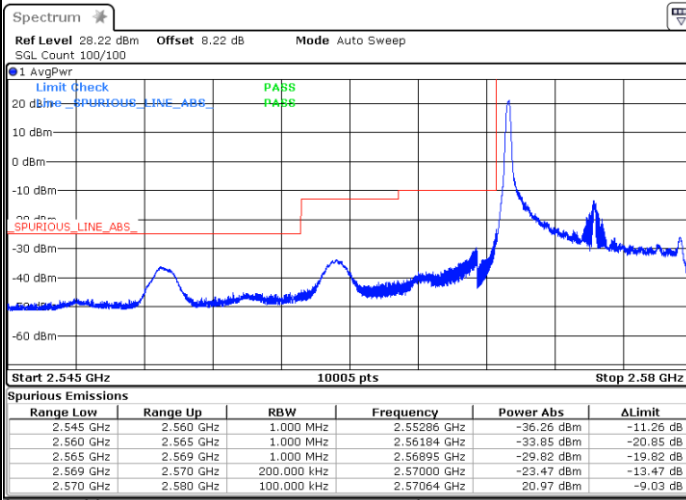
Date: 15.NOV.2019 16:23:36



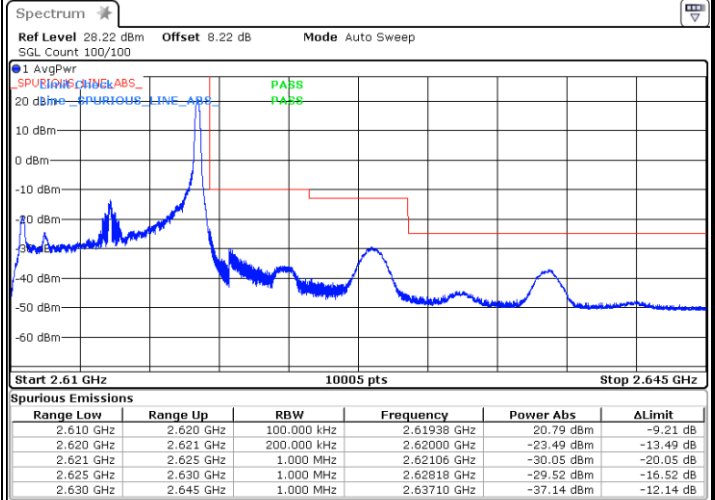
LTE Band 38 / 10MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



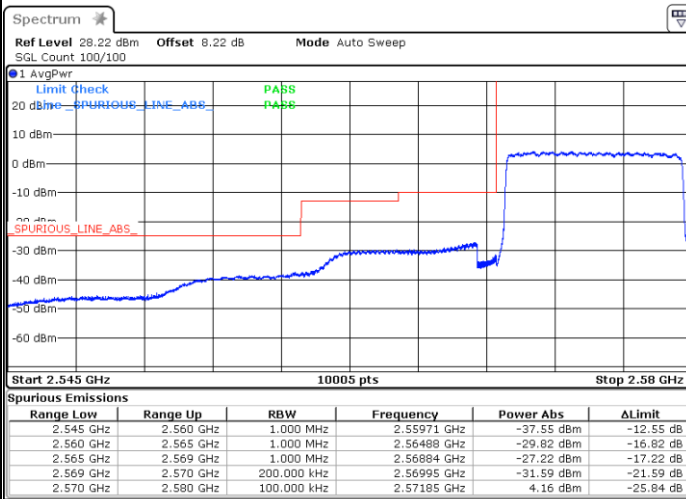
Date: 15.NOV.2019 16:28:13



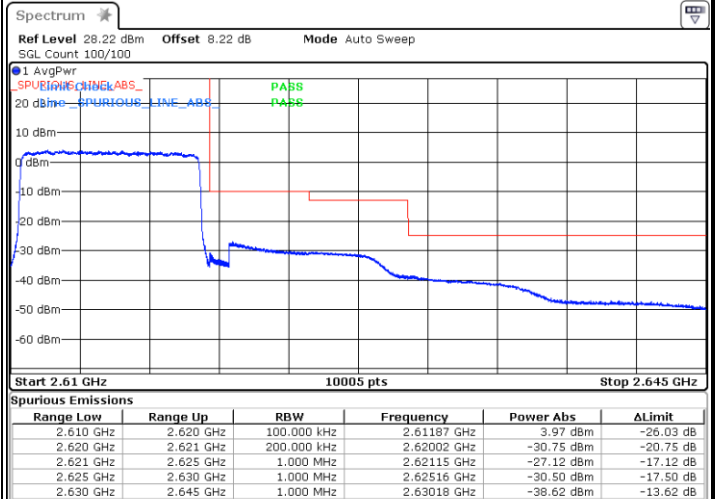
Date: 15.NOV.2019 16:42:23

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 15.NOV.2019 16:32:33



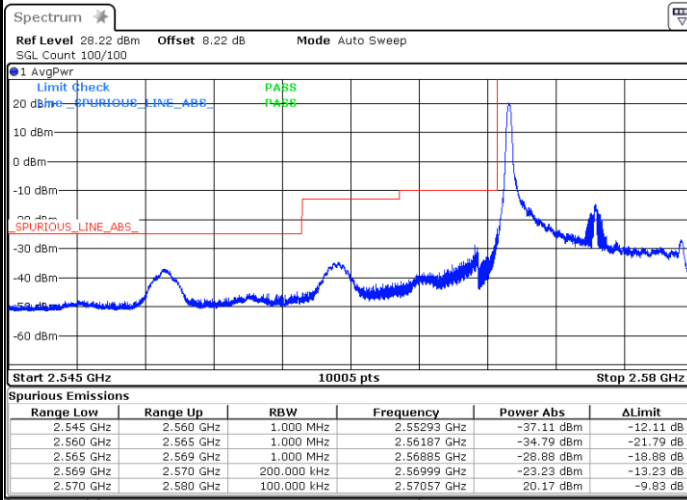
Date: 15.NOV.2019 16:34:06





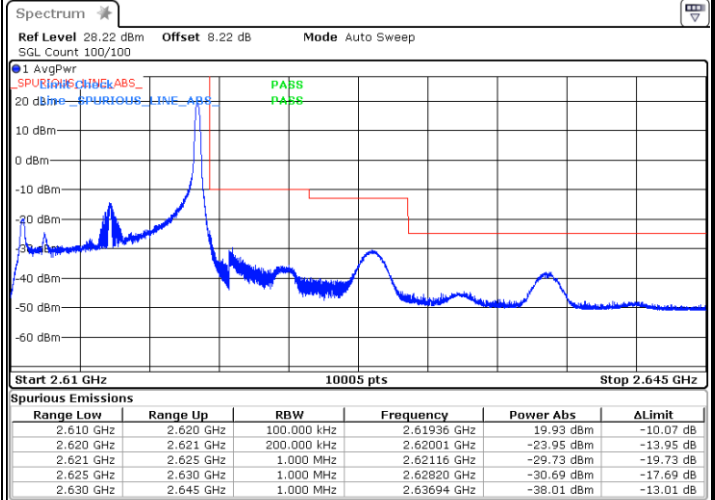
LTE Band 38 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



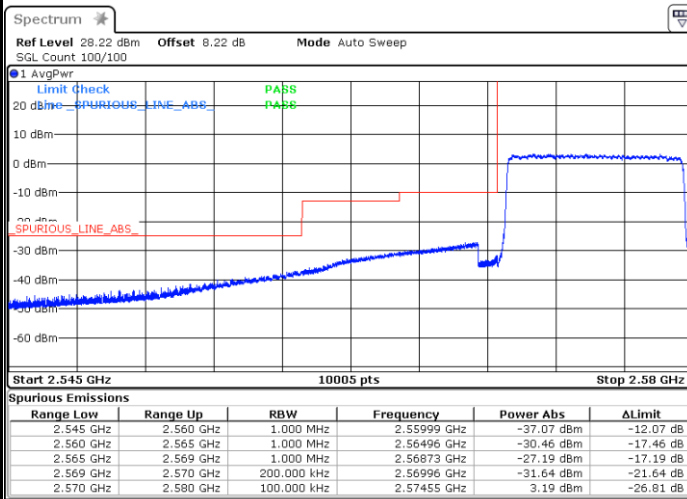
Date: 15.NOV.2019 16:29:36

Highest Band Edge / 1 RB



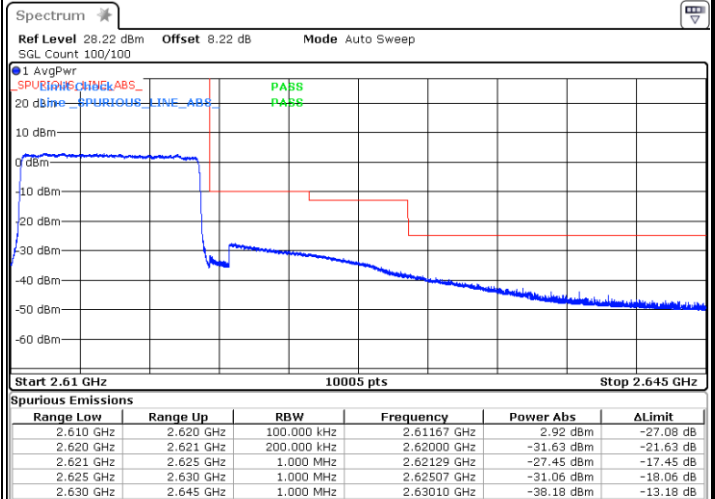
Date: 15.NOV.2019 16:39:25

Lowest Band Edge / Full RB



Date: 15.NOV.2019 16:31:06

Highest Band Edge / Full RB

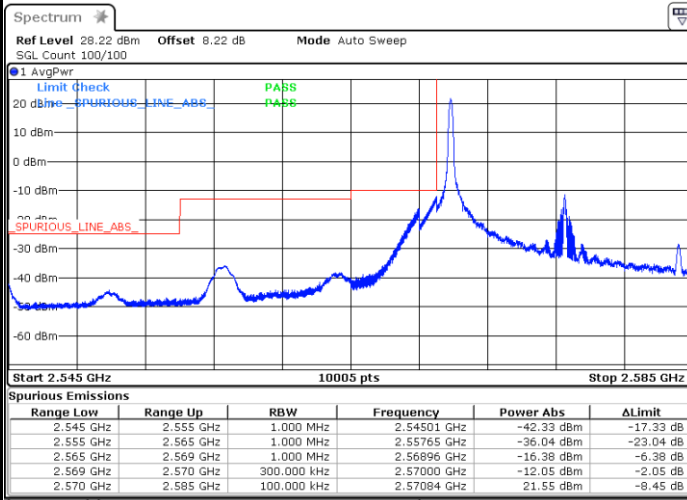


Date: 15.NOV.2019 16:35:52



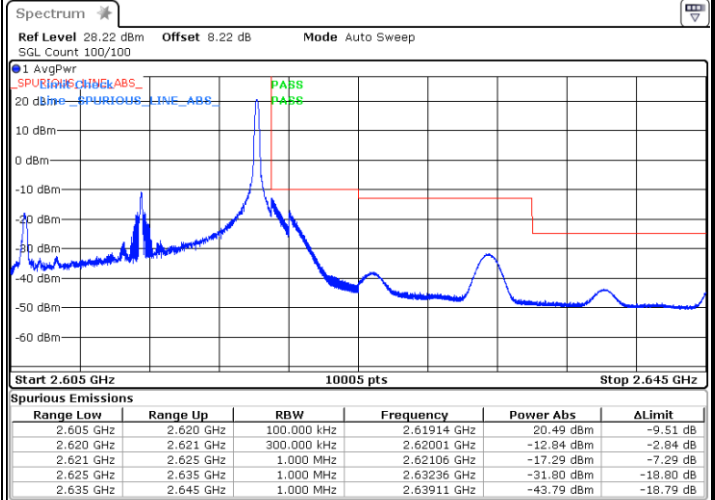
LTE Band 38 / 15MHz / QPSK

Lowest Band Edge / 1 RB



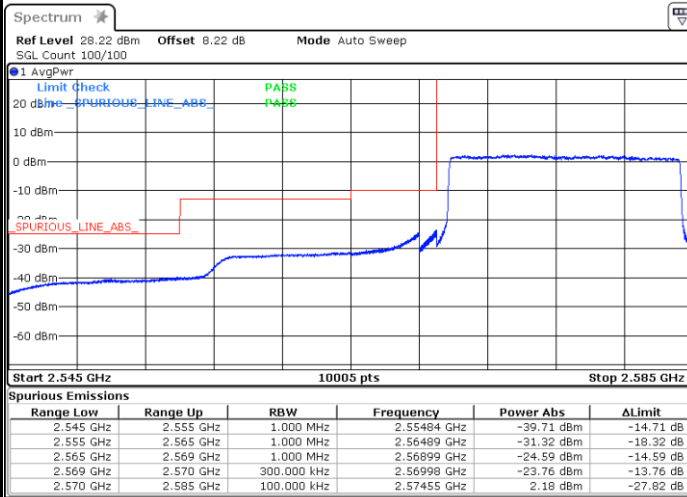
Date: 15.NOV.2019 17:03:35

Highest Band Edge / 1 RB



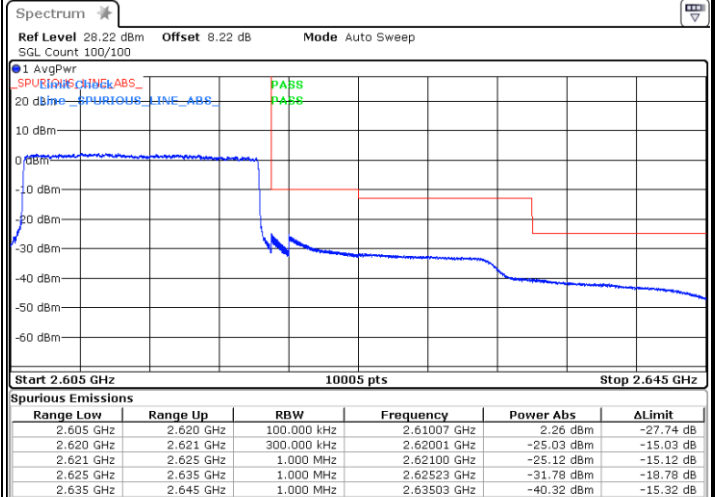
Date: 15.NOV.2019 17:09:57

Lowest Band Edge / Full RB



Date: 15.NOV.2019 17:07:02

Highest Band Edge / Full RB



Date: 15.NOV.2019 17:08:33