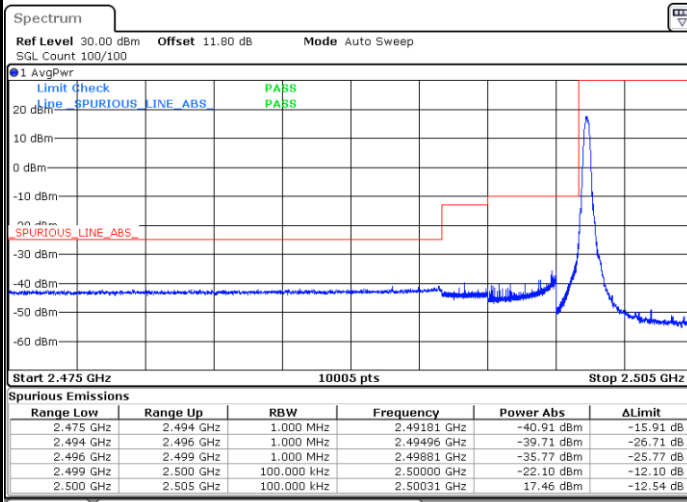




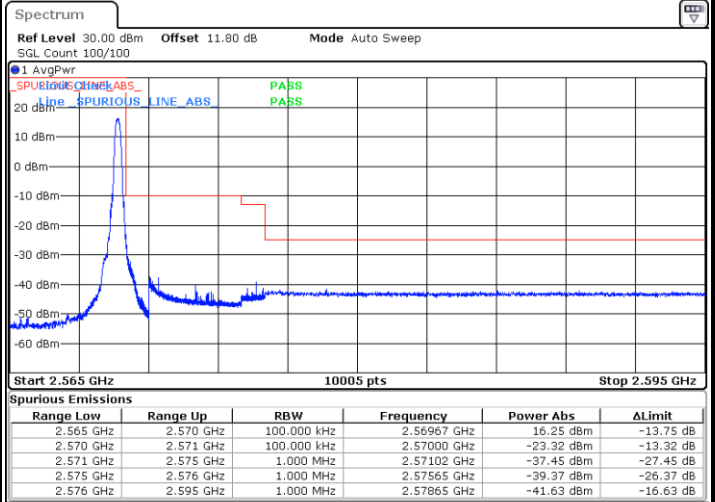
LTE Band 7 / 5MHz / 64QAM

Lowest Band Edge / 1RB



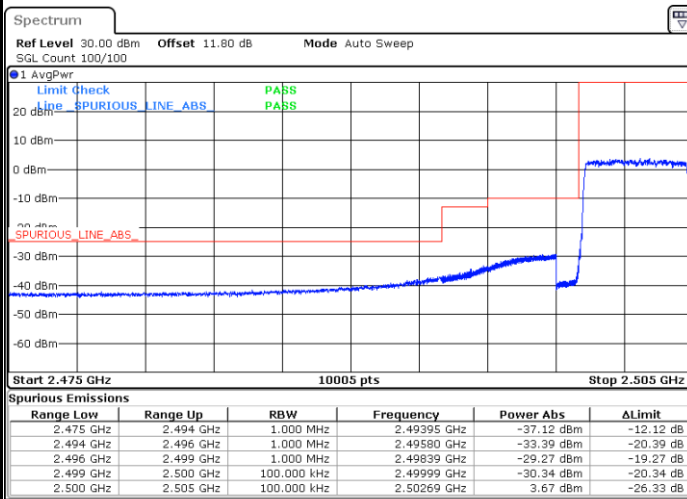
Date: 14.JAN.2020 17:52:28

Highest Band Edge / 1 RB



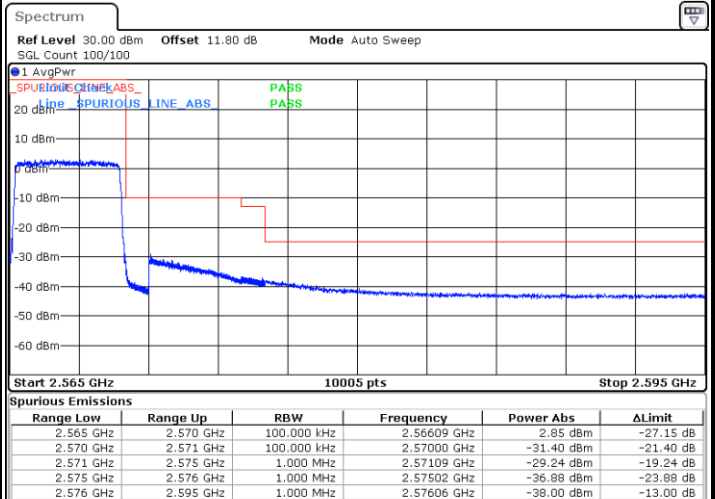
Date: 14.JAN.2020 17:57:10

Lowest Band Edge / Full RB



Date: 14.JAN.2020 17:53:30

Highest Band Edge / Full RB

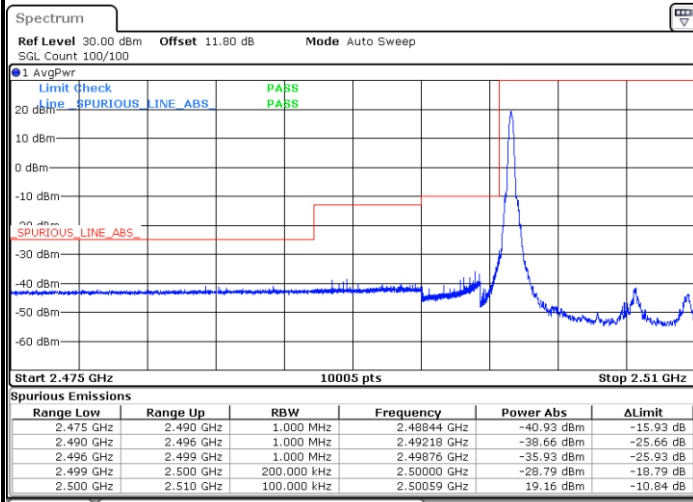


Date: 14.JAN.2020 17:58:11



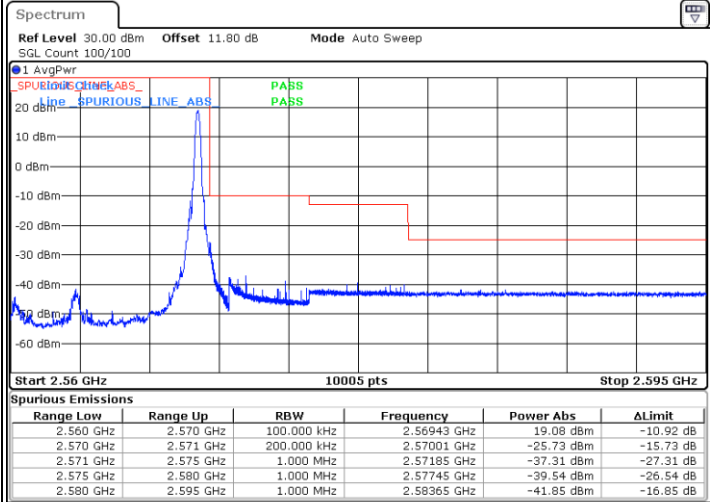
LTE Band 7 / 10MHz / QPSK

Lowest Band Edge / 1 RB



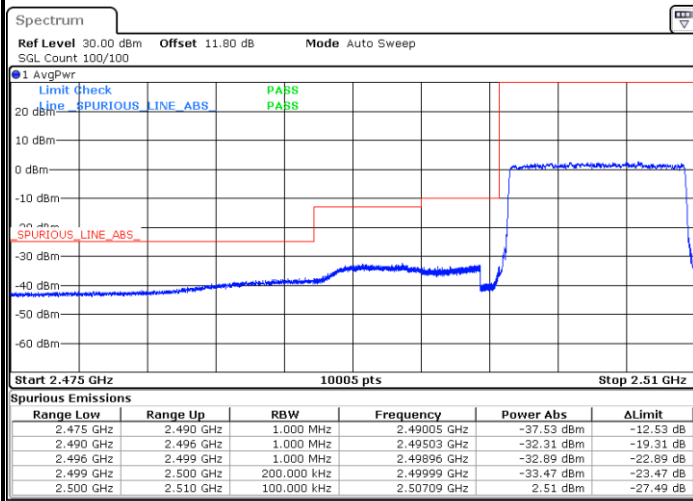
Date: 14.JAN.2020 18:01:01

Highest Band Edge / 1 RB



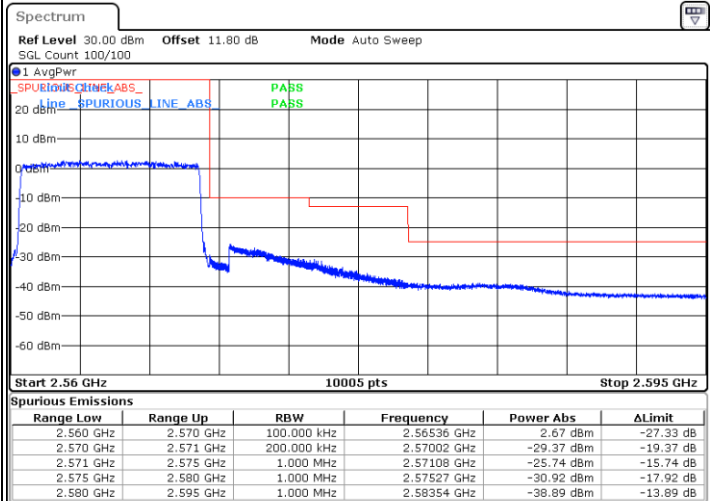
Date: 14.JAN.2020 18:10:24

Lowest Band Edge / Full RB



Date: 14.JAN.2020 18:03:04

Highest Band Edge / Full RB

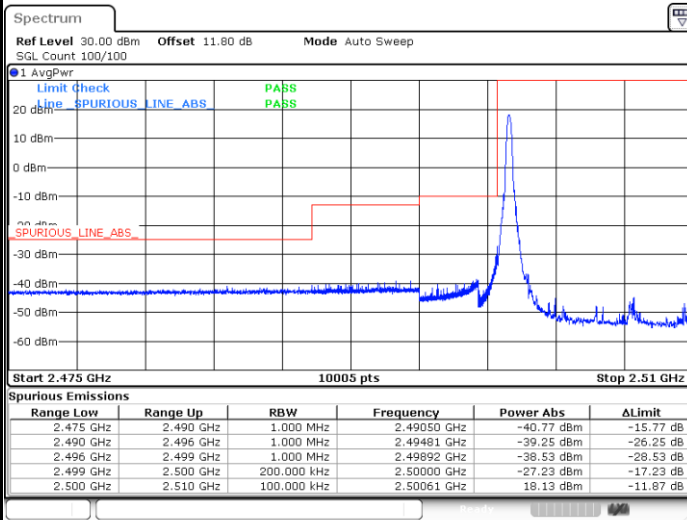


Date: 14.JAN.2020 18:12:27

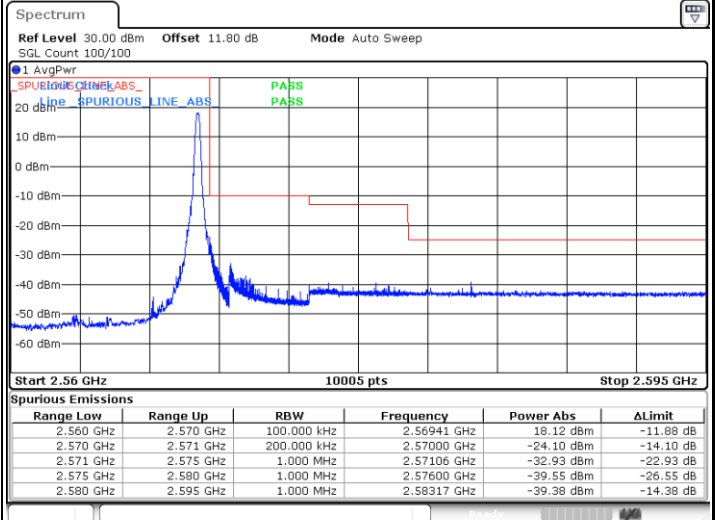


LTE Band 7 / 10MHz / 16QAM

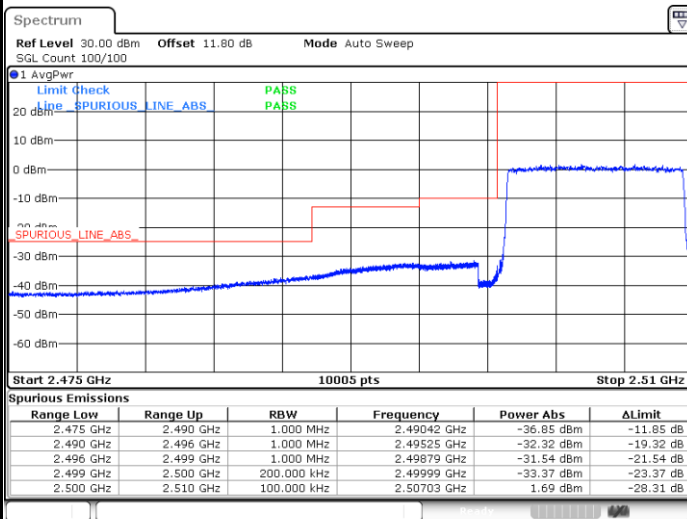
Lowest Band Edge / 1 RB



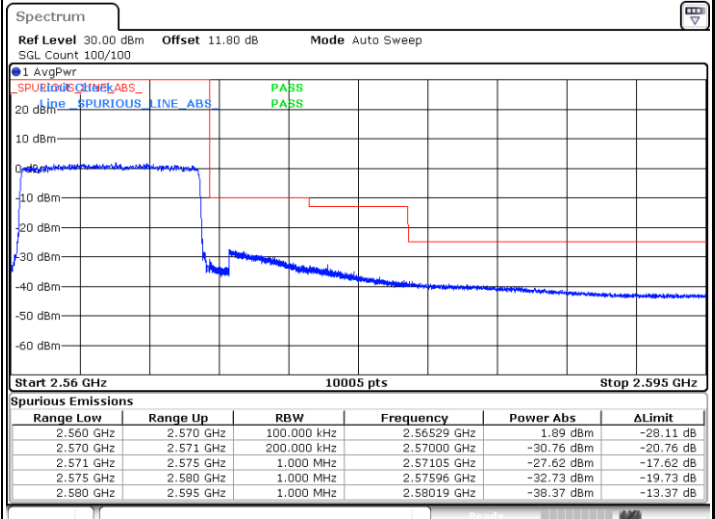
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



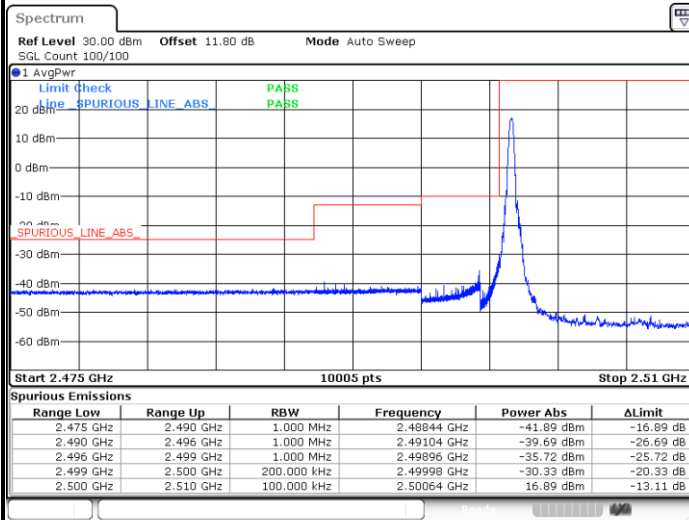
Highest Band Edge / Full RB



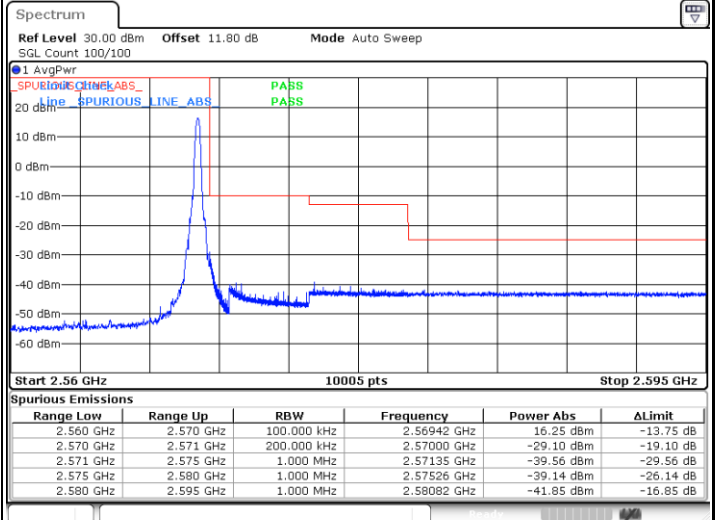


LTE Band 7 / 10MHz / 64QAM

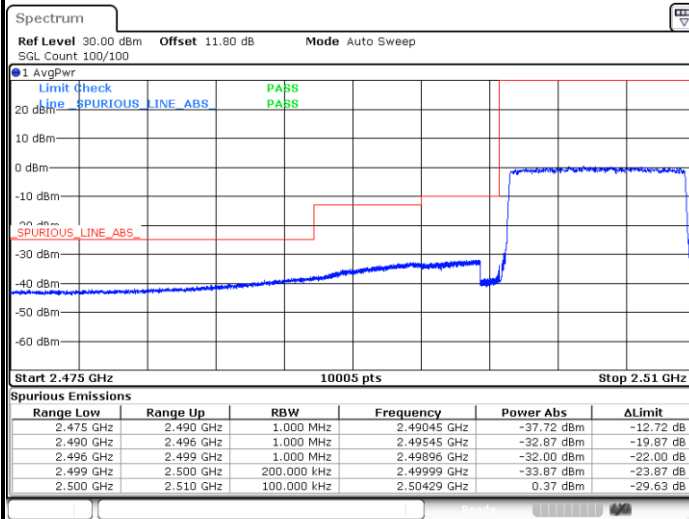
Lowest Band Edge / 1 RB



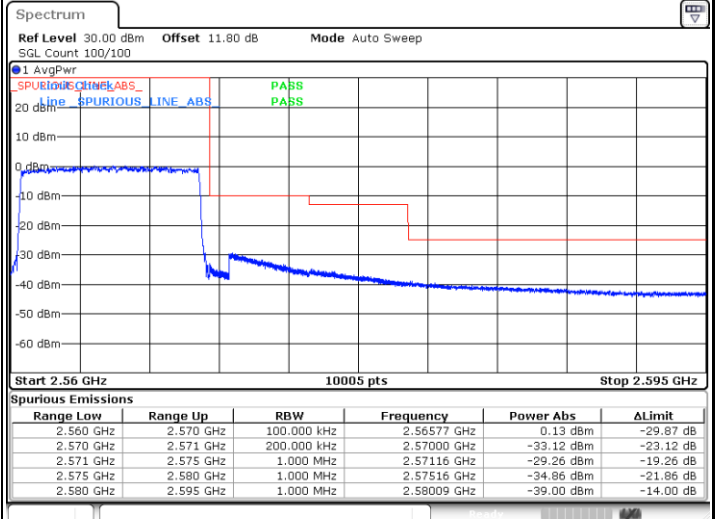
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



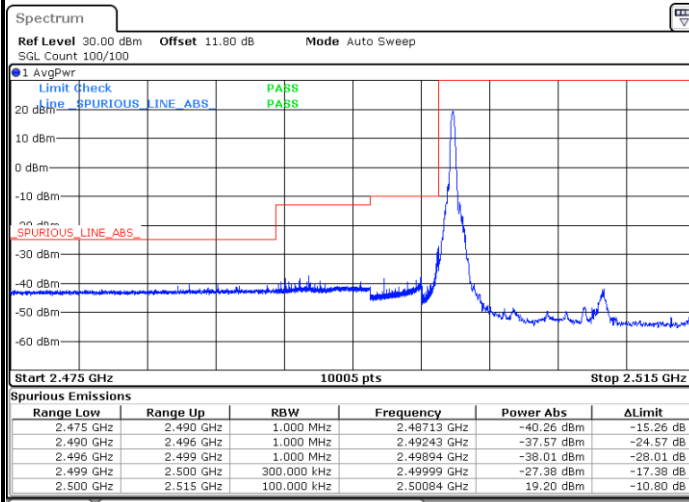
Highest Band Edge / Full RB





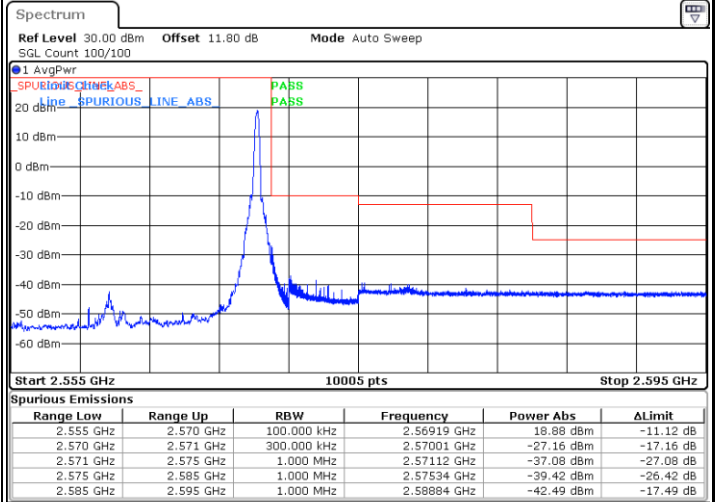
LTE Band 7 / 15MHz / QPSK

Lowest Band Edge / 1 RB



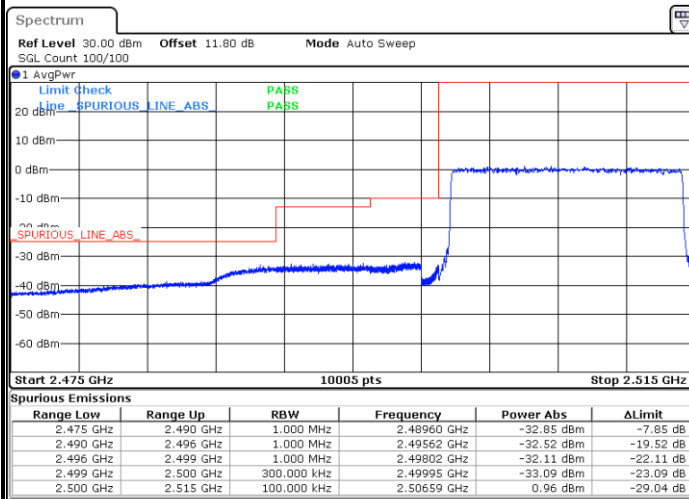
Date: 14.JAN.2020 18:44:02

Highest Band Edge / 1 RB



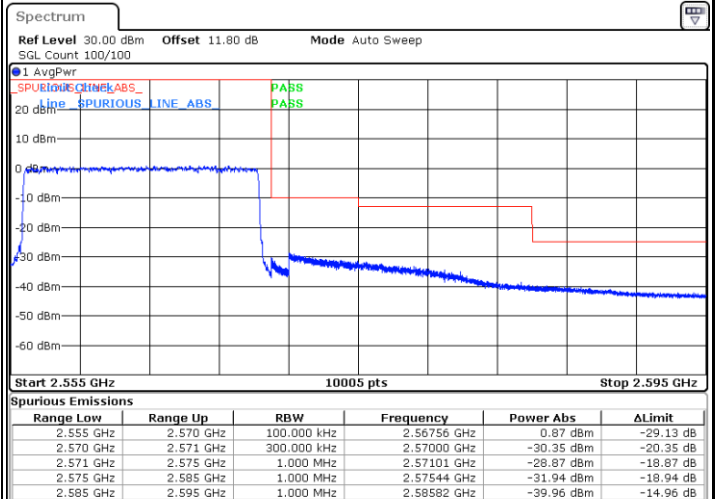
Date: 14.JAN.2020 18:53:27

Lowest Band Edge / Full RB



Date: 14.JAN.2020 18:46:06

Highest Band Edge / Full RB

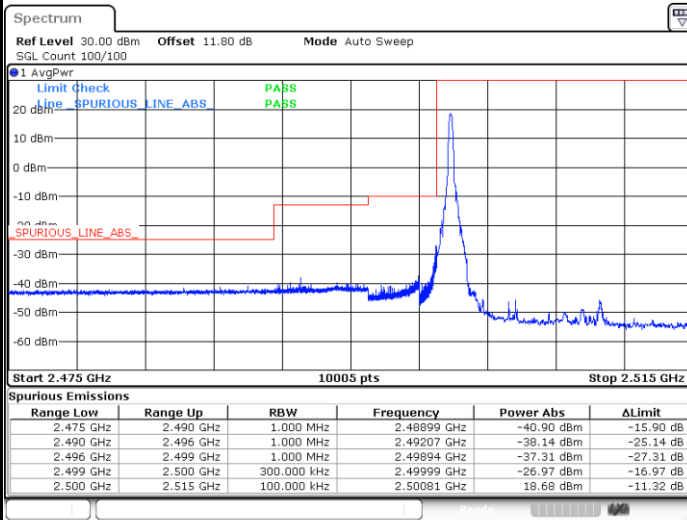


Date: 14.JAN.2020 18:55:30

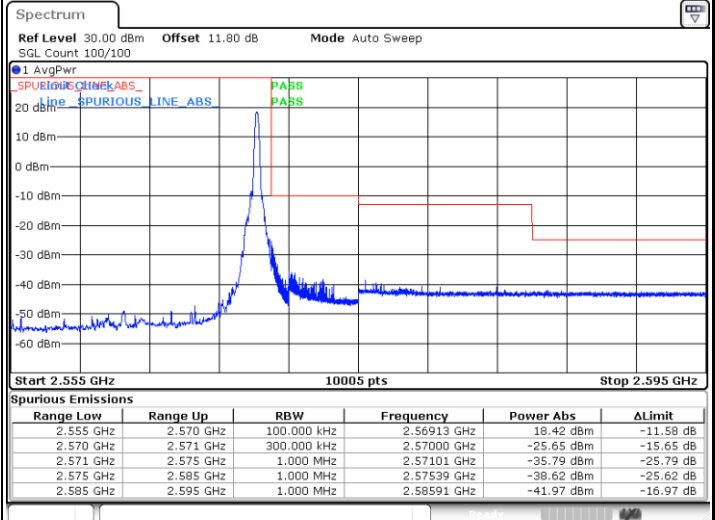


LTE Band 7 / 15MHz / 16QAM

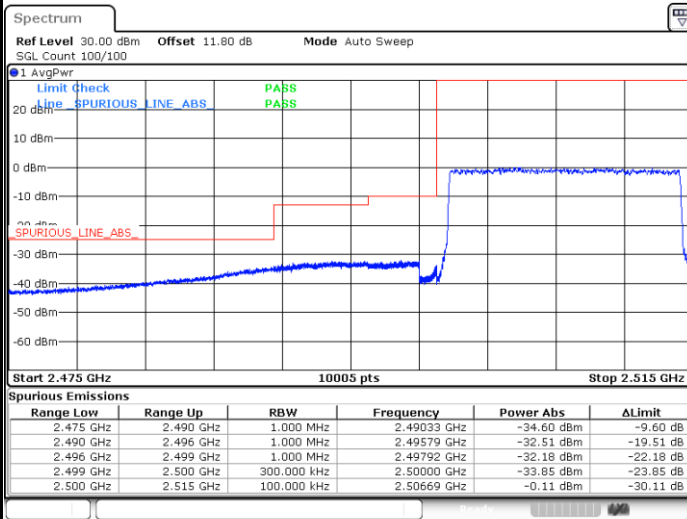
Lowest Band Edge / 1 RB



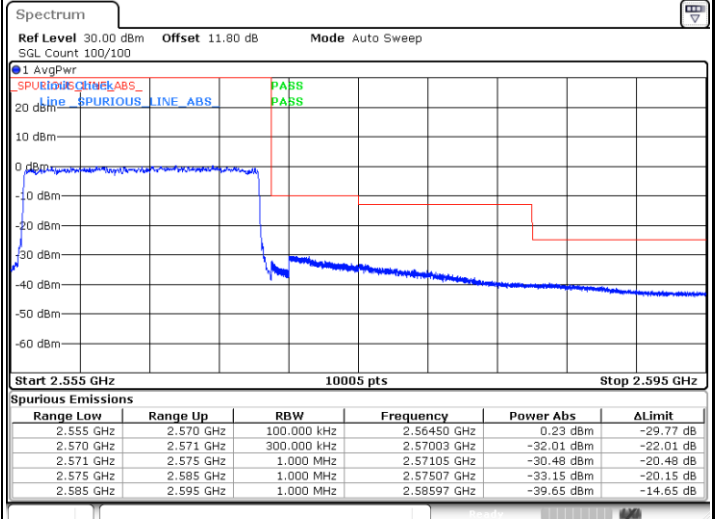
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



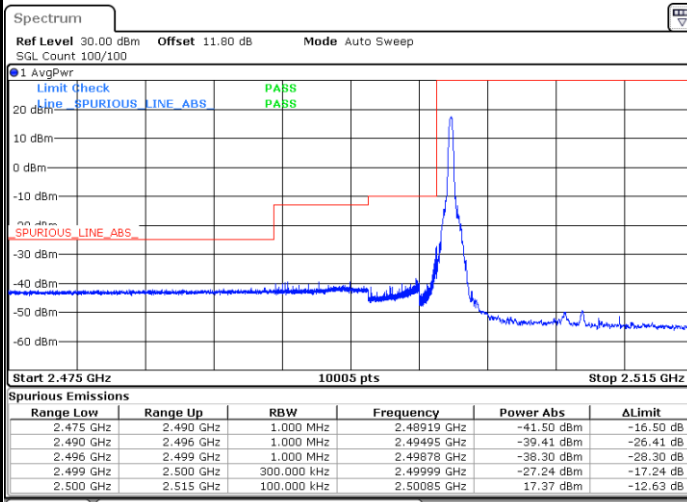
Highest Band Edge / Full RB





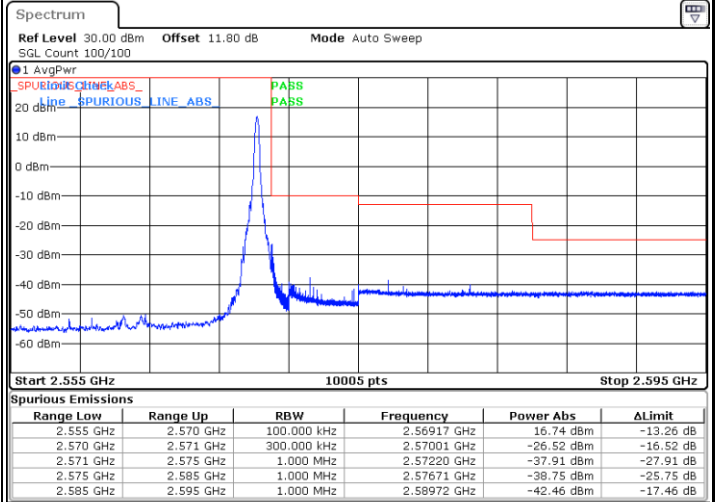
LTE Band 7 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



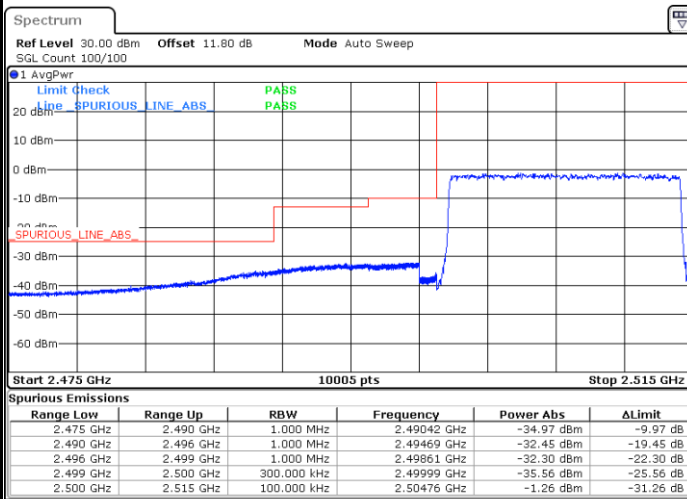
Date: 14.JAN.2020 18:59:46

Highest Band Edge / 1 RB



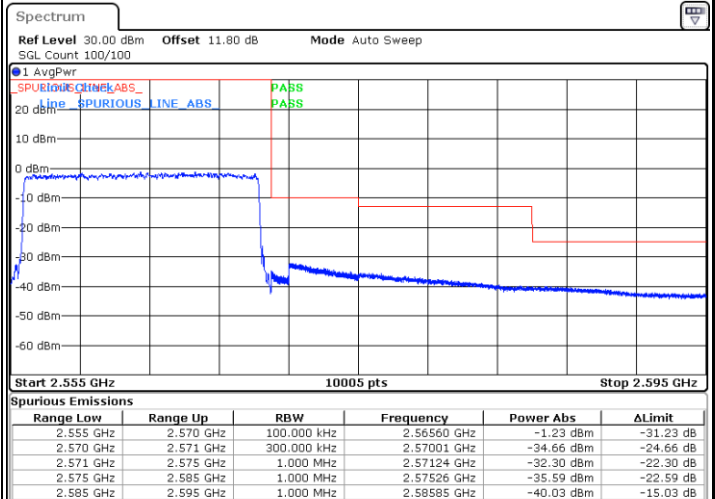
Date: 14.JAN.2020 19:17:09

Lowest Band Edge / Full RB



Date: 14.JAN.2020 19:00:47

Highest Band Edge / Full RB

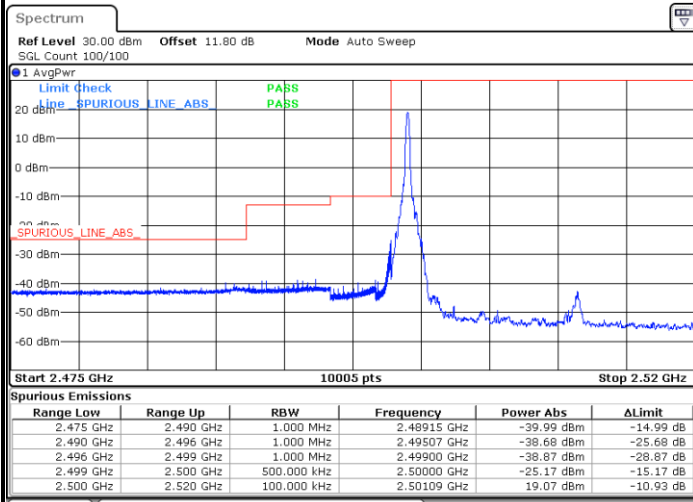


Date: 14.JAN.2020 19:18:11



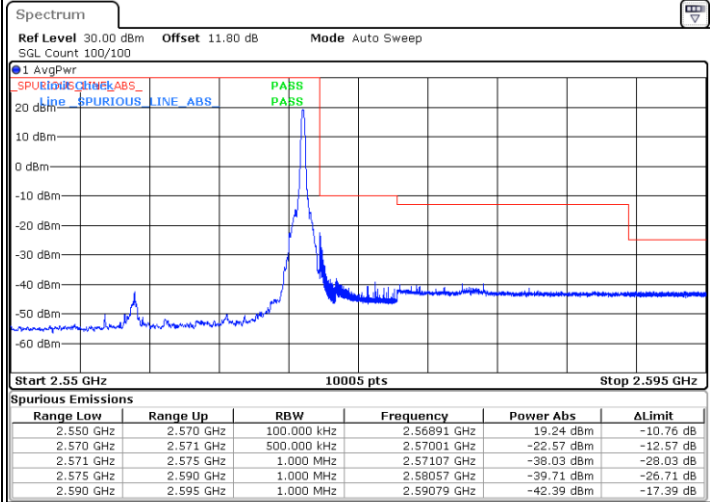
LTE Band 7 / 20MHz / QPSK

Lowest Band Edge / 1 RB



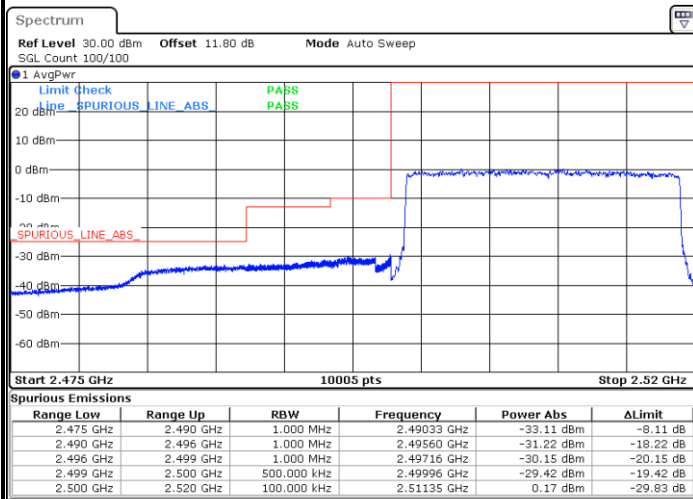
Date: 14.JAN.2020 19:21:03

Highest Band Edge / 1 RB



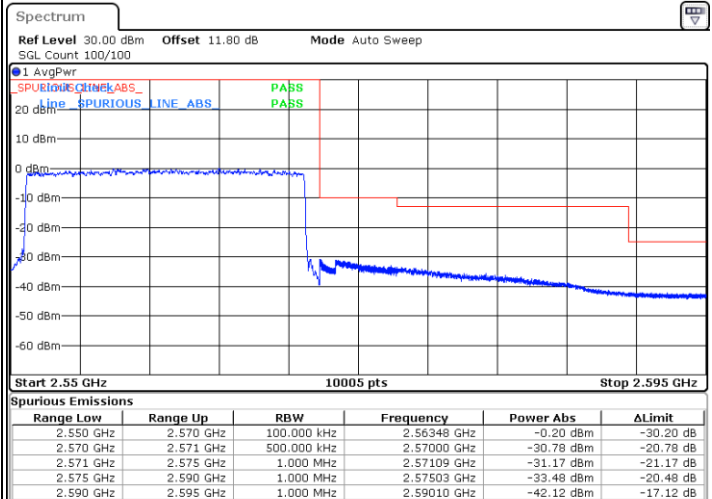
Date: 14.JAN.2020 19:30:27

Lowest Band Edge / Full RB



Date: 14.JAN.2020 19:23:07

Highest Band Edge / Full RB

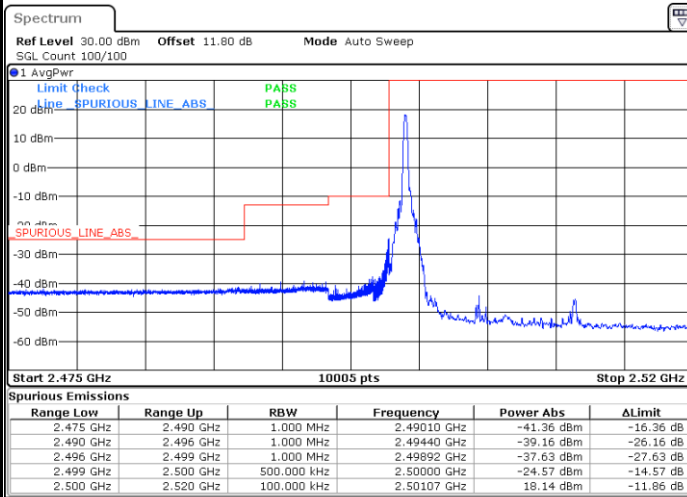


Date: 14.JAN.2020 19:43:52



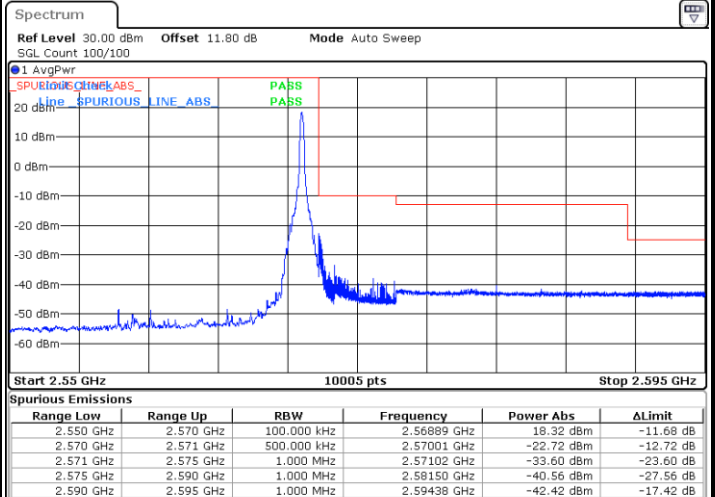
LTE Band 7 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



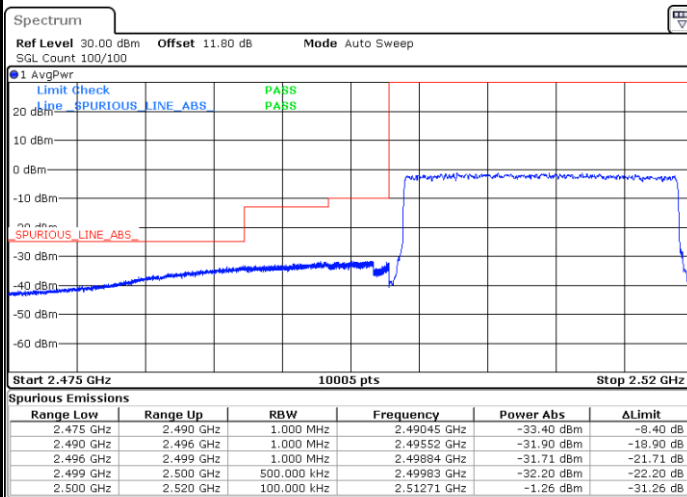
Date: 14.JAN.2020 19:22:05

Highest Band Edge / 1RB



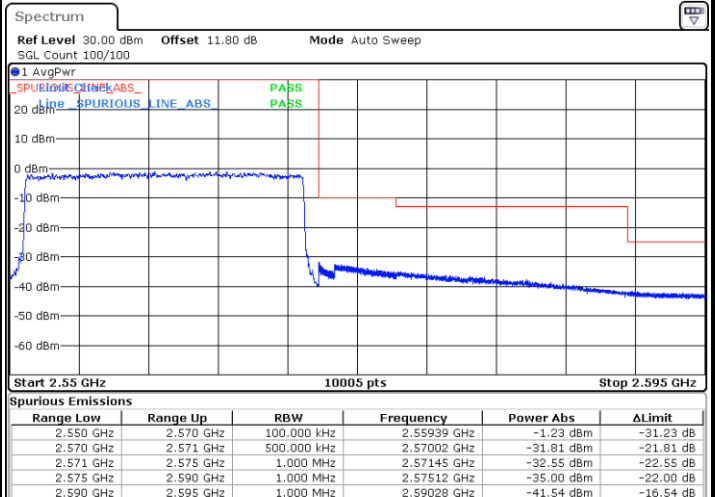
Date: 14.JAN.2020 19:31:28

Lowest Band Edge / Full RB



Date: 14.JAN.2020 19:24:09

Highest Band Edge / Full RB

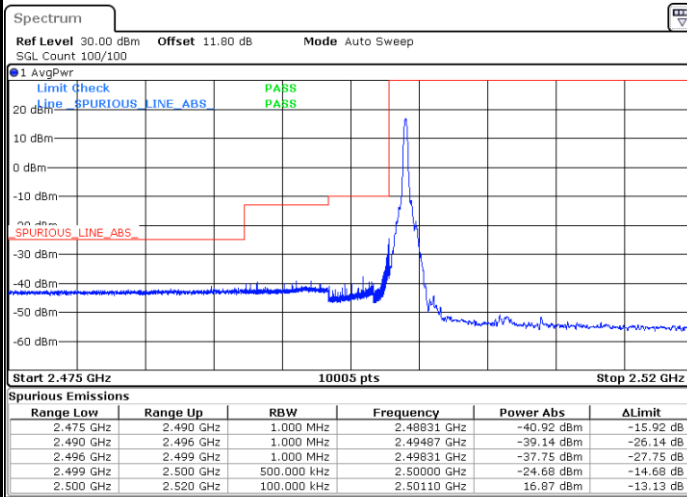


Date: 14.JAN.2020 19:32:30



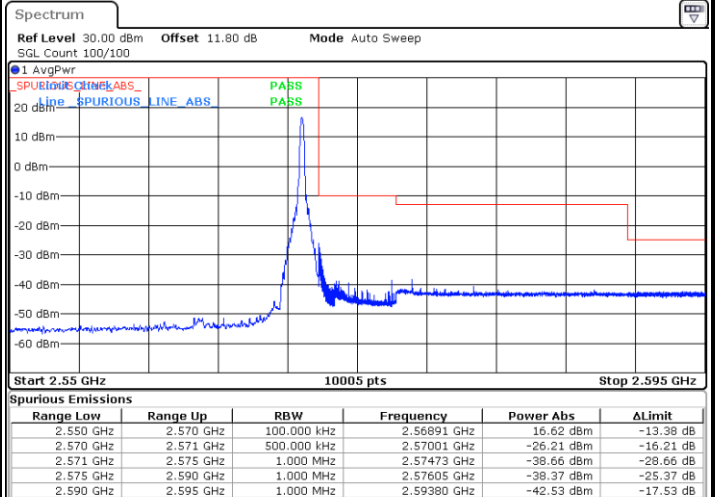
LTE Band 7 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



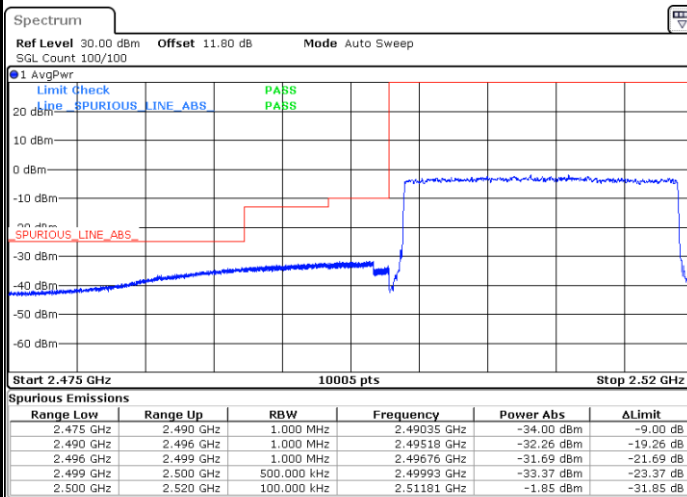
Date: 14.JAN.2020 20:08:17

Highest Band Edge / 1 RB



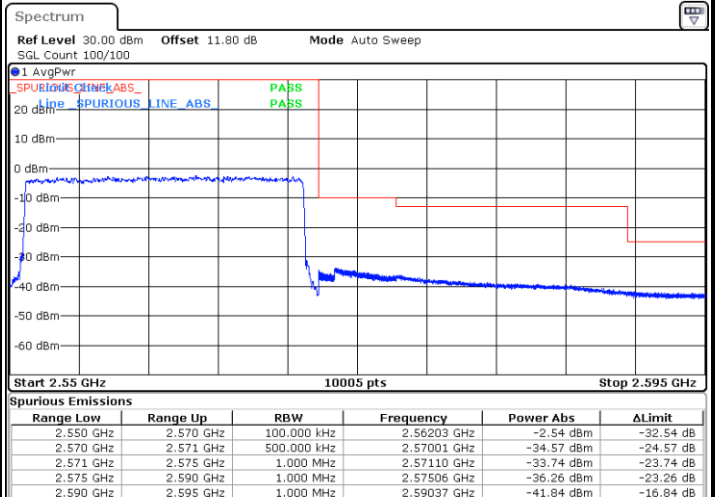
Date: 14.JAN.2020 19:52:08

Lowest Band Edge / Full RB



Date: 14.JAN.2020 20:07:57

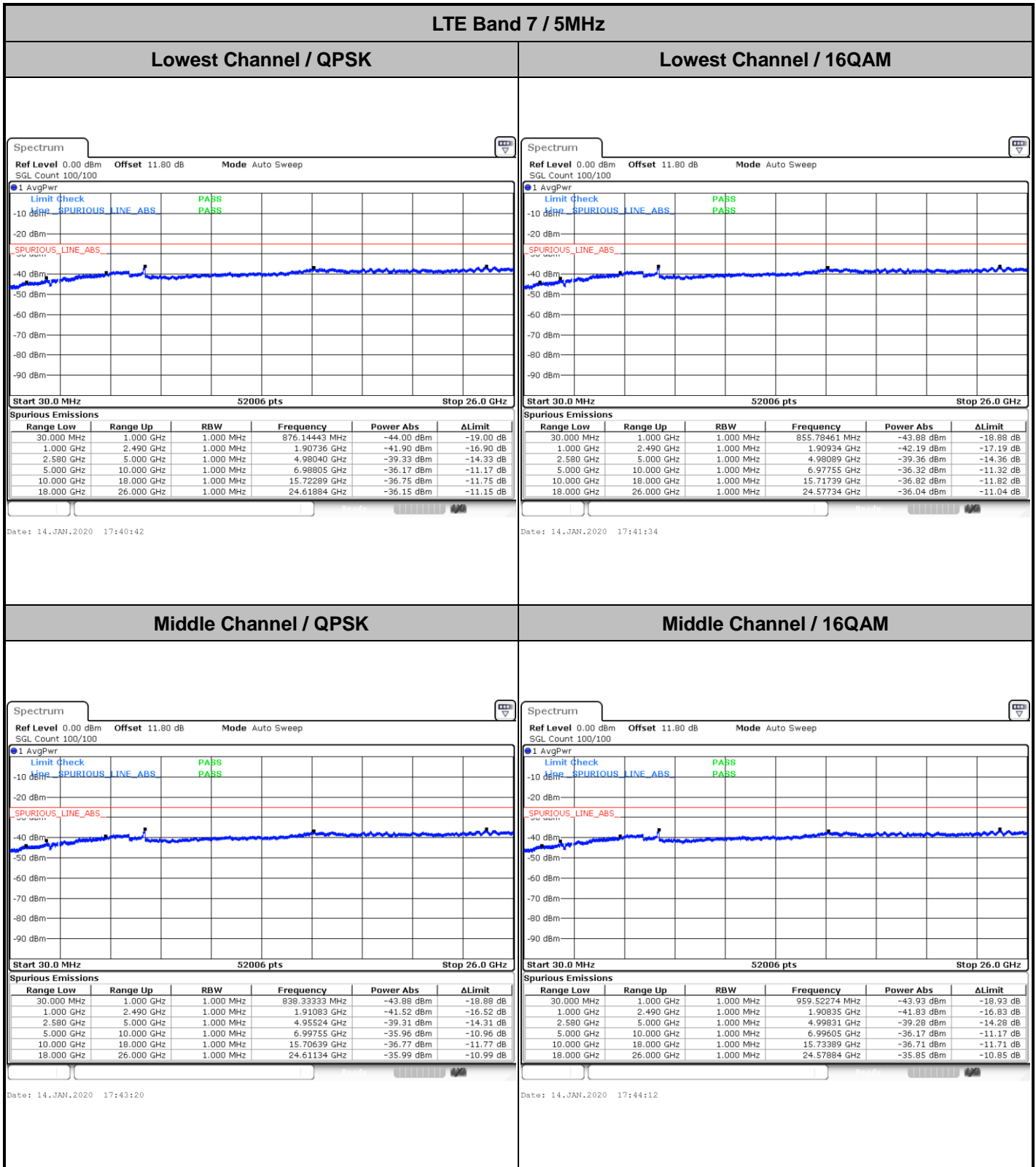
Highest Band Edge / Full RB



Date: 14.JAN.2020 19:53:09



Conducted Spurious Emission

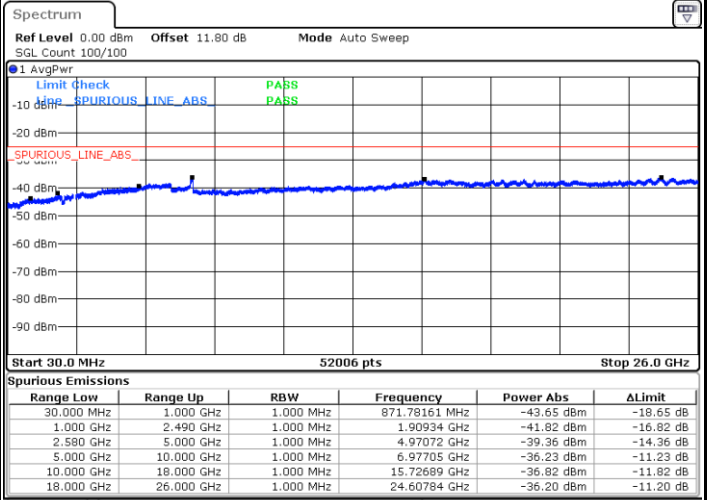
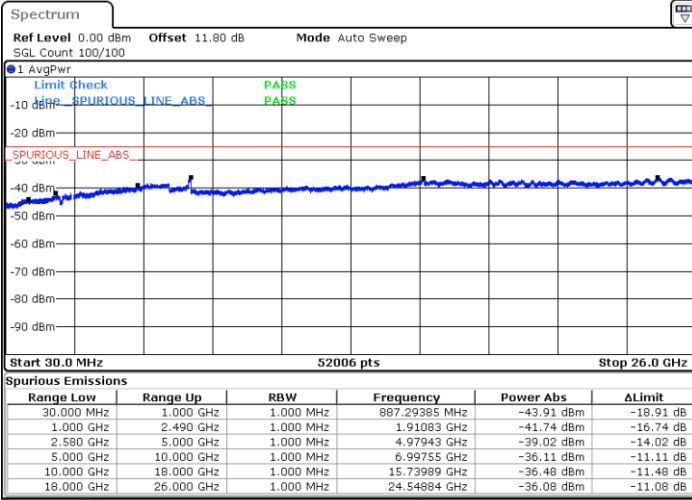




LTE Band 7 / 5MHz

Highest Channel / QPSK

Highest Channel / 16QAM



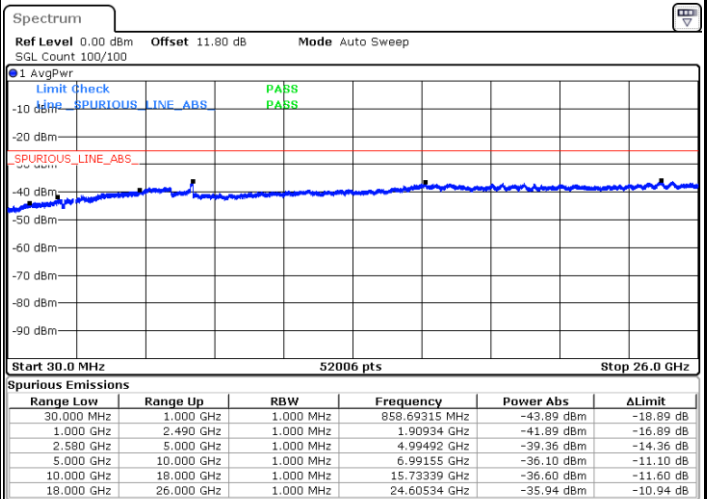
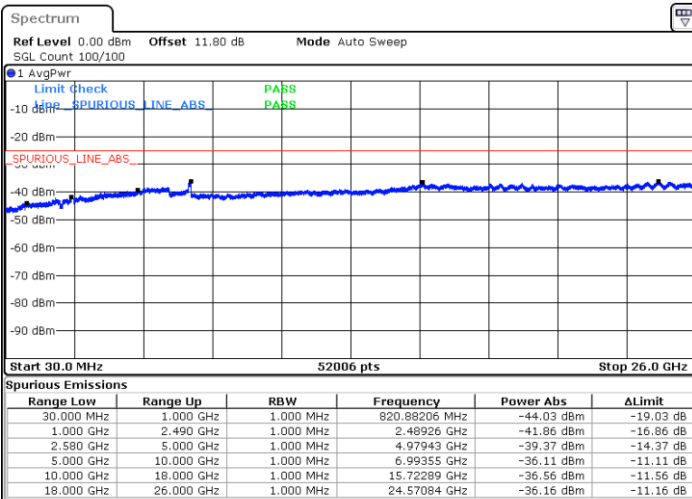
Date: 14.JAN.2020 17:50:05

Date: 14.JAN.2020 17:50:58

LTE Band 7 / 10MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 14.JAN.2020 18:04:57

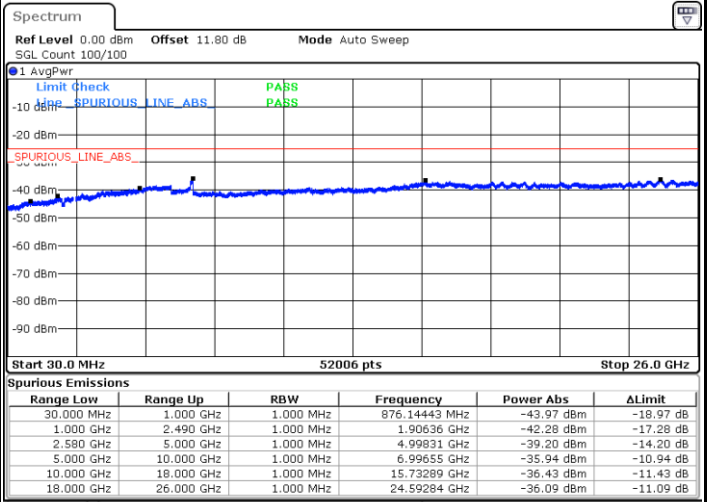
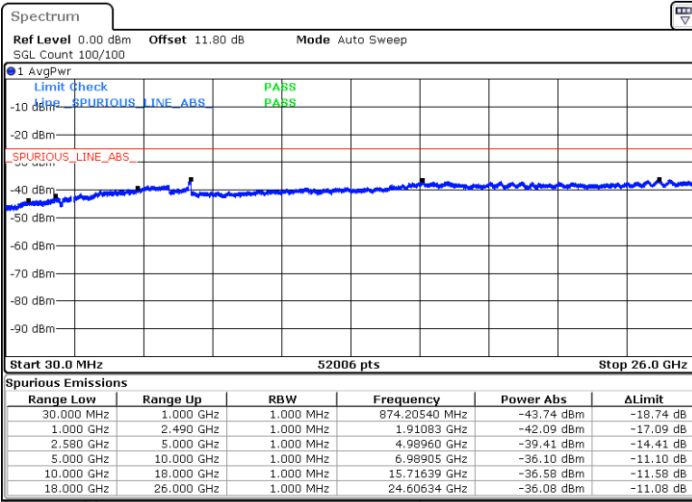
Date: 14.JAN.2020 18:05:49



LTE Band 7 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

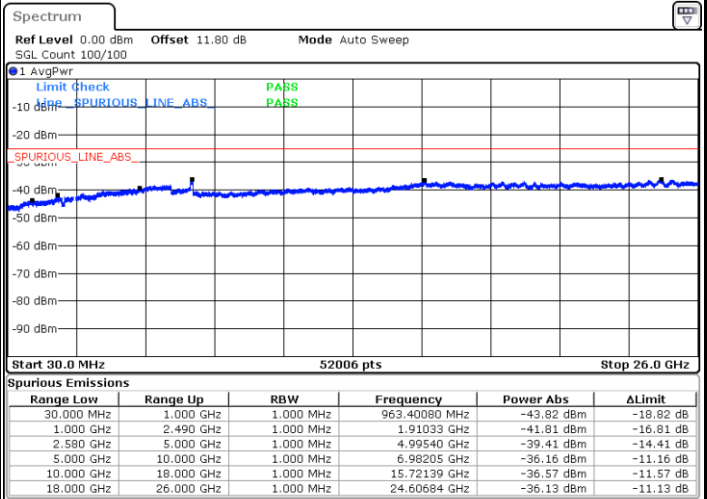
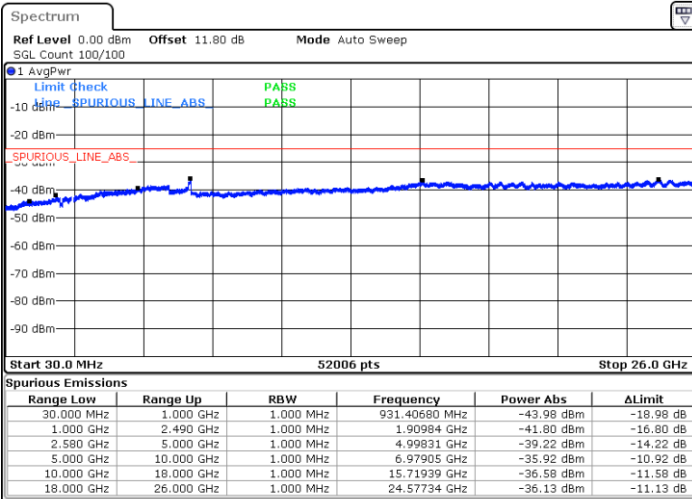


Date: 14.JAN.2020 18:07:35

Date: 14.JAN.2020 18:08:26

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 14.JAN.2020 18:14:20

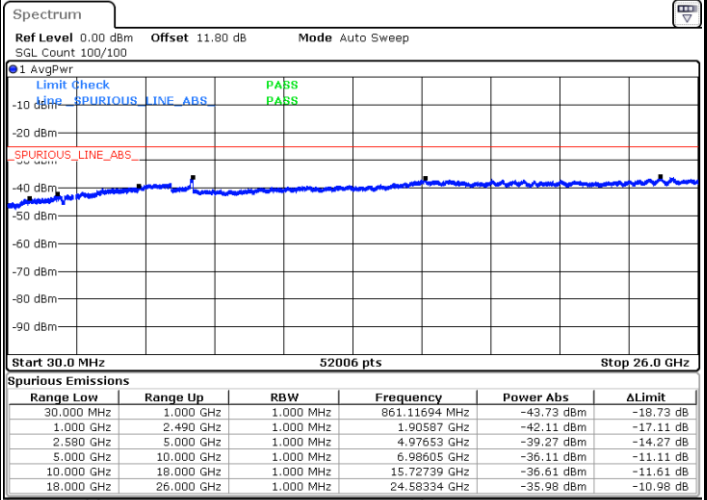
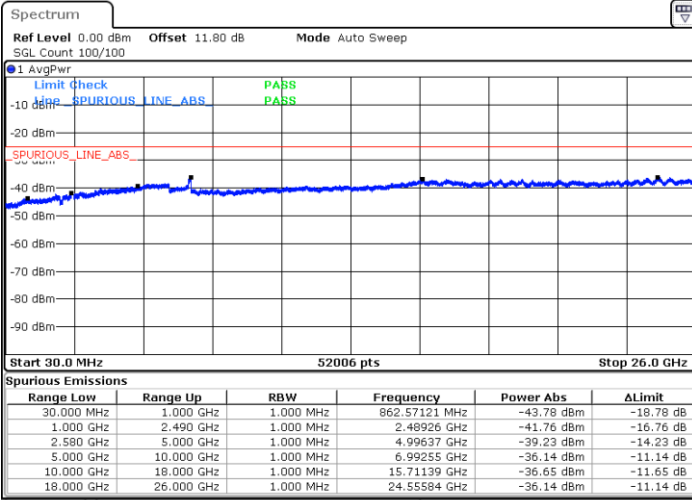
Date: 14.JAN.2020 18:15:13



LTE Band 7 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

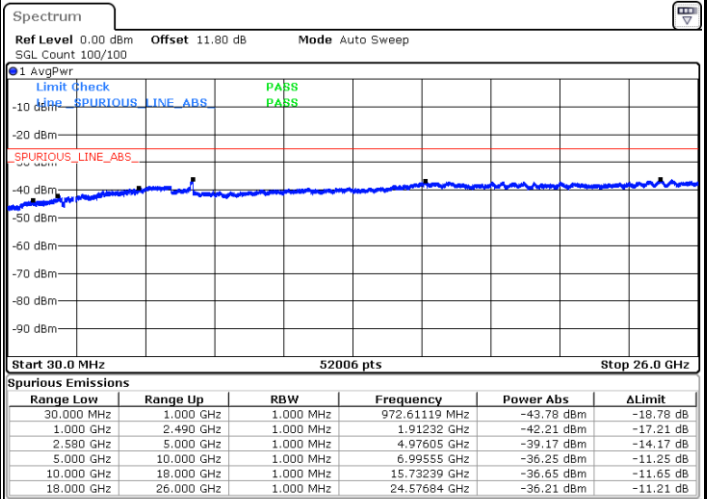
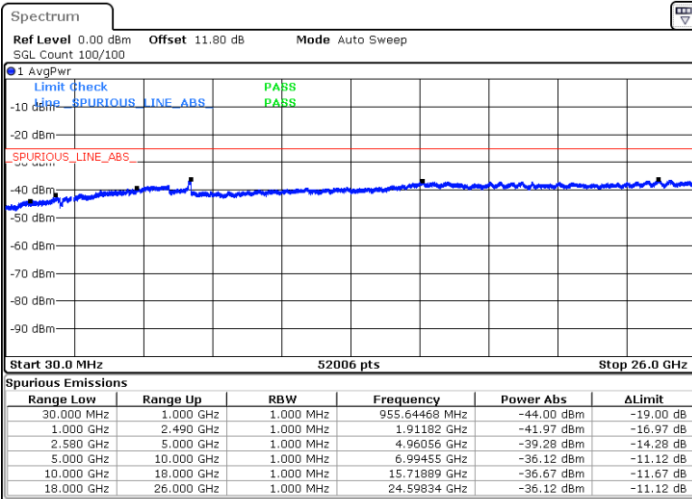


Date: 14.JAN.2020 18:47:59

Date: 14.JAN.2020 18:48:51

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 14.JAN.2020 18:50:38

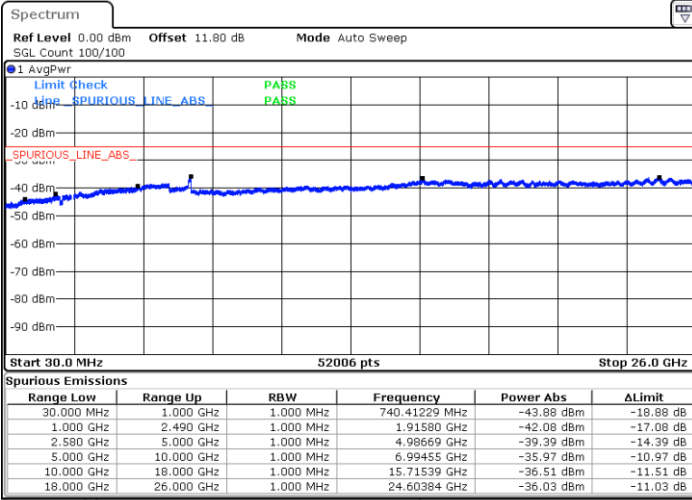
Date: 14.JAN.2020 18:51:29



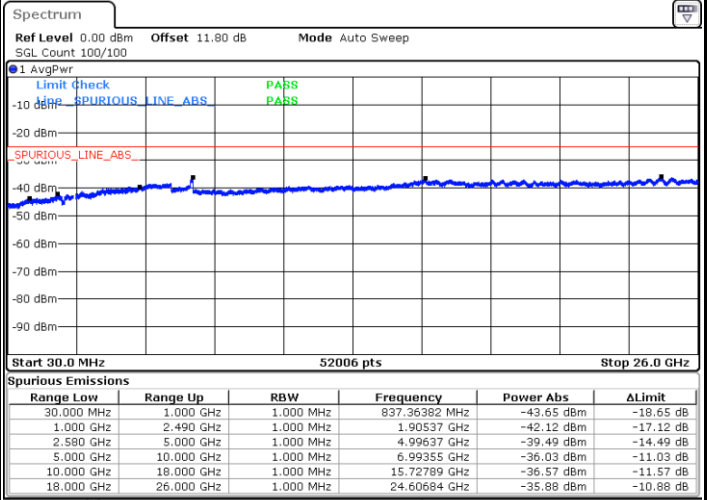
LTE Band7 / 15MHz

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 14.JAN.2020 18:57:23

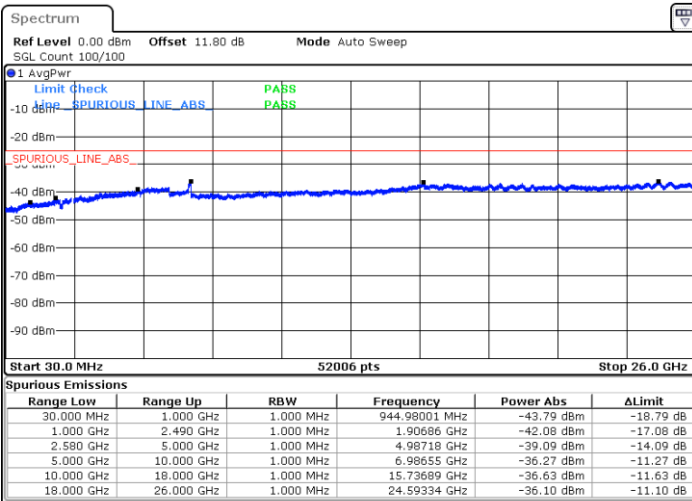


Date: 14.JAN.2020 18:58:15

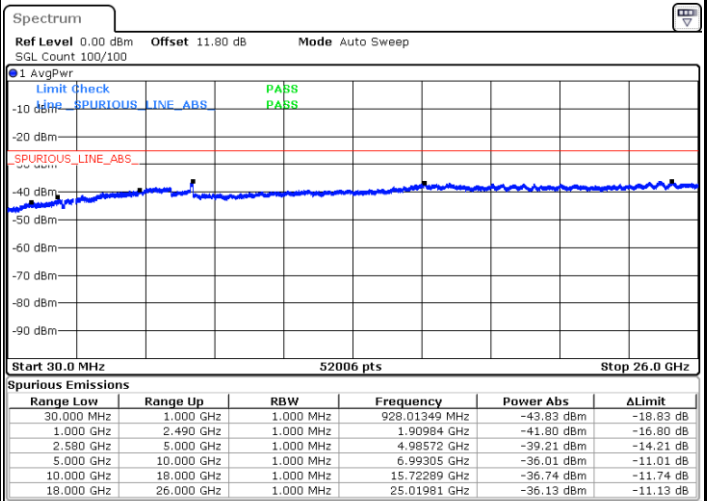
LTE Band 7 / 20MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 14.JAN.2020 19:25:00



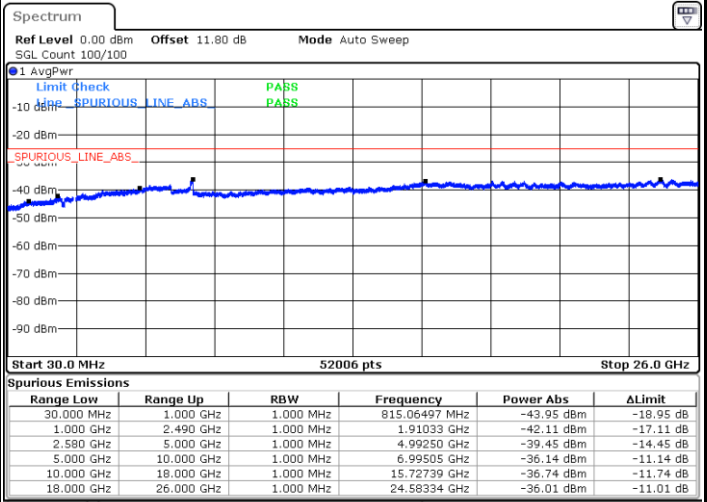
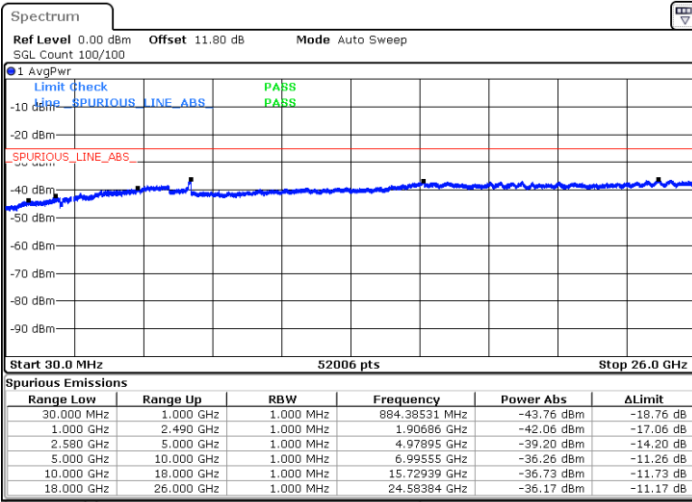
Date: 14.JAN.2020 19:25:53



LTE Band 7 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

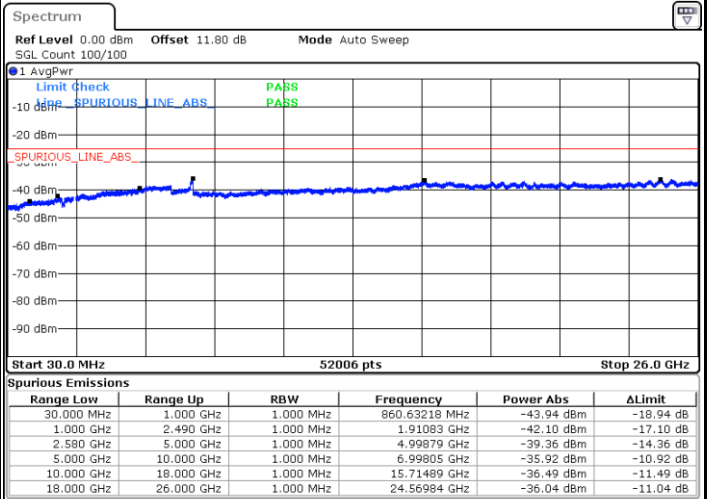
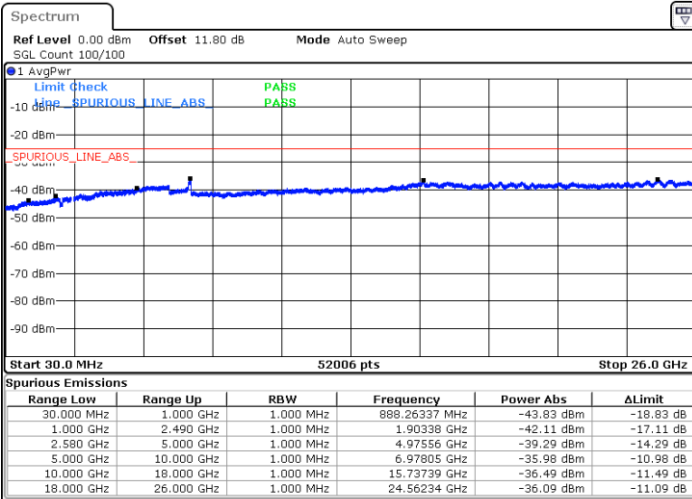


Date: 14.JAN.2020 19:27:38

Date: 14.JAN.2020 19:28:29

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 14.JAN.2020 19:44:43

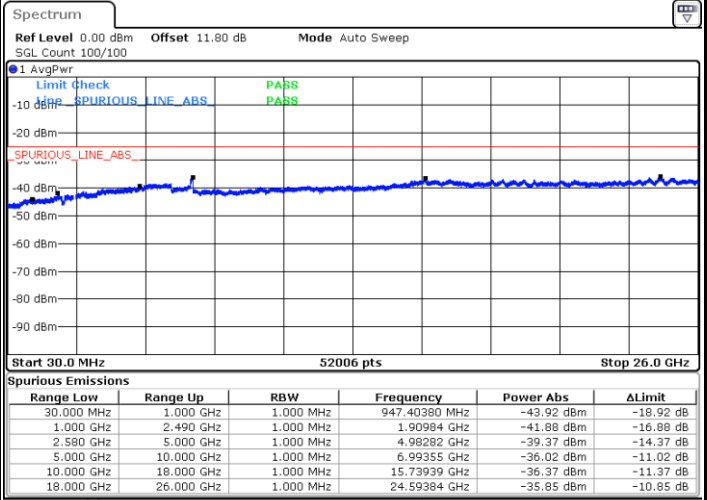
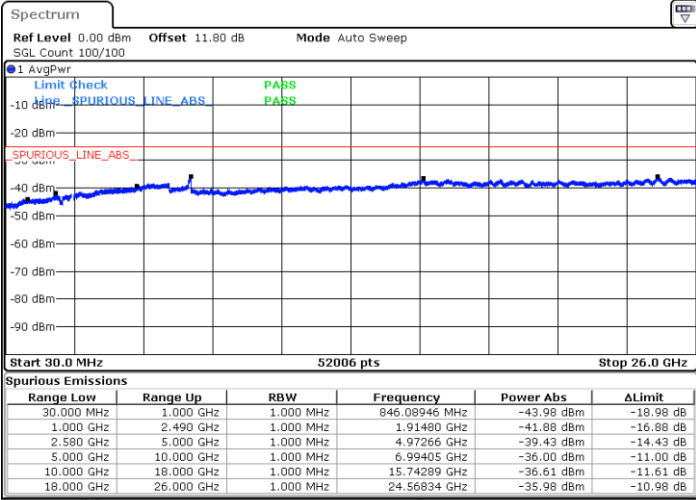
Date: 14.JAN.2020 19:45:36



LTE Band 7 / 5MHz

Lowest Channel / 64QAM

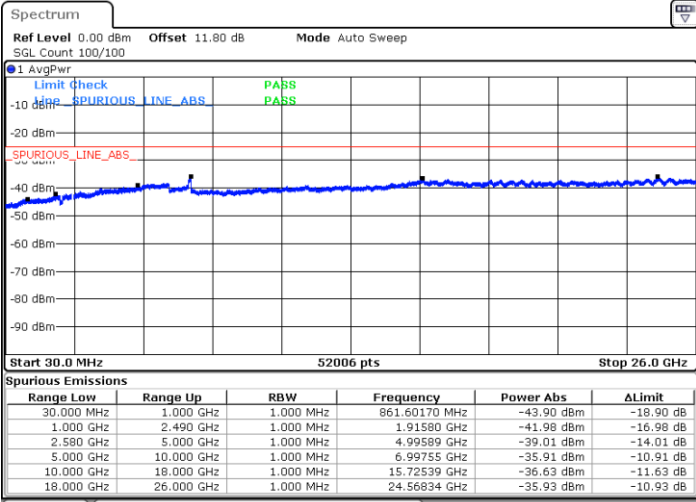
Middle Channel / 64QAM



Date: 14.JAN.2020 17:54:21

Date: 14.JAN.2020 17:55:40

Highest Channel / 64QAM



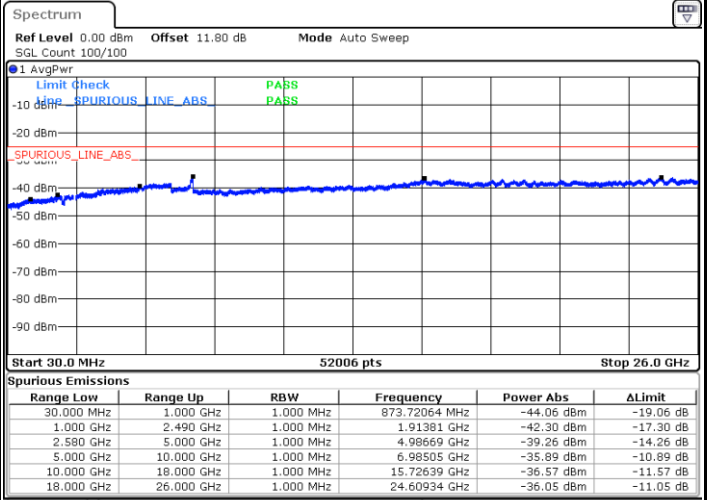
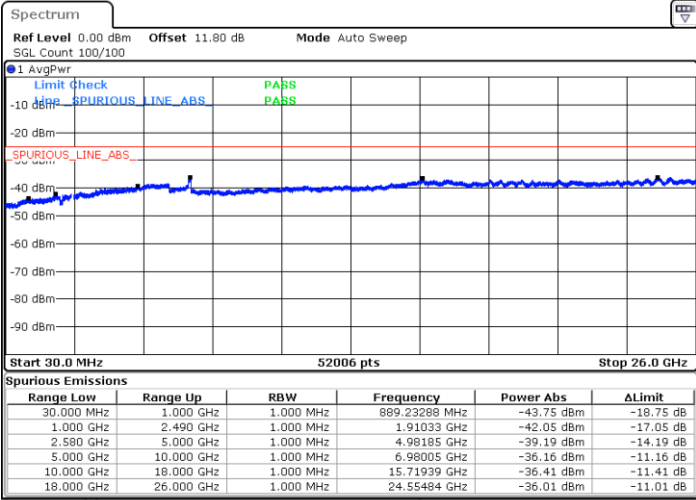
Date: 14.JAN.2020 17:59:03



LTE Band 7 / 10MHz

Lowest Channel / 64QAM

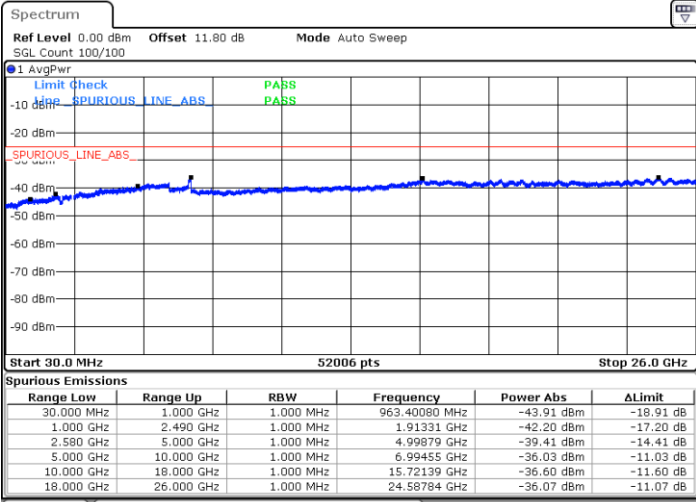
Middle Channel / 64QAM



Date: 14. JAN. 2020 18:37:22

Date: 14. JAN. 2020 18:38:40

Highest Channel / 64QAM



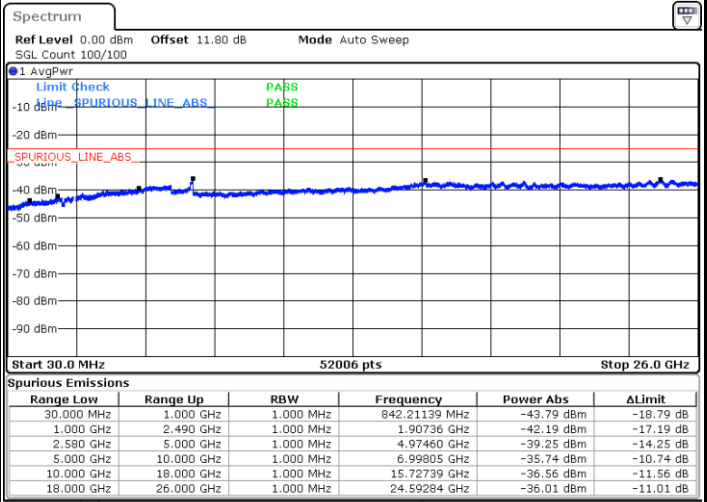
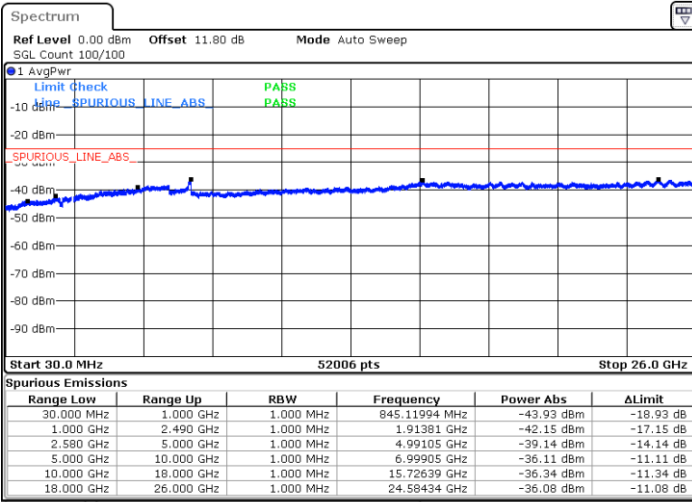
Date: 14. JAN. 2020 18:42:03



LTE Band 7 / 15MHz

Lowest Channel / 64QAM

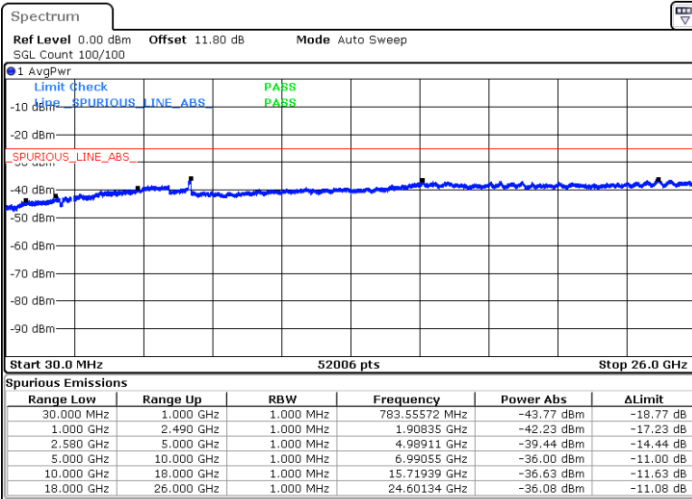
Middle Channel / 64QAM



Date: 14.JAN.2020 19:01:39

Date: 14.JAN.2020 19:15:40

Highest Channel / 64QAM



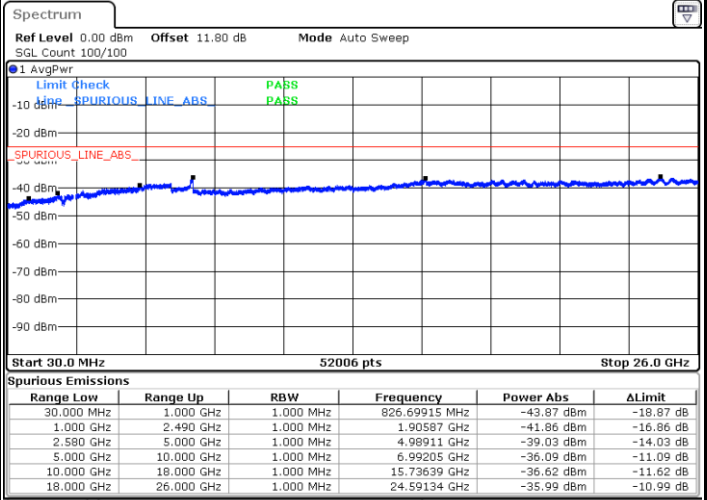
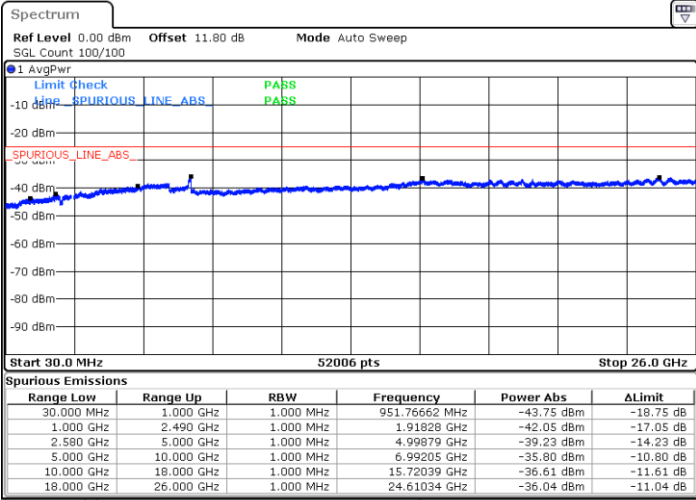
Date: 14.JAN.2020 19:19:02



LTE Band 7 / 20MHz

Lowest Channel / 64QAM

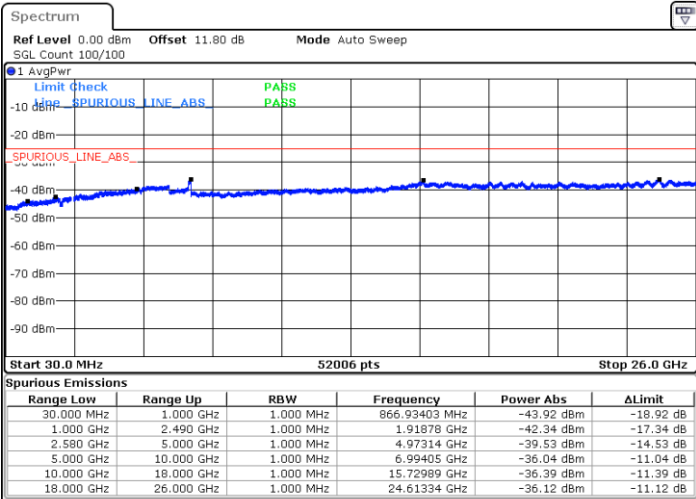
Middle Channel / 64QAM



Date: 14.JAN.2020 19:49:20

Date: 14.JAN.2020 19:50:38

Highest Channel / 64QAM



Date: 14.JAN.2020 19:54:01



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	0.0009	PASS
40	Normal Voltage	0.0006	
30	Normal Voltage	0.0025	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0008	
0	Normal Voltage	0.0023	
-10	Normal Voltage	0.0003	
-20	Normal Voltage	0.0015	
-30	Normal Voltage	0.0034	
20	Maximum Voltage	0.0010	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0006	

Note:

1. Normal Voltage =3.9 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.35 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 12

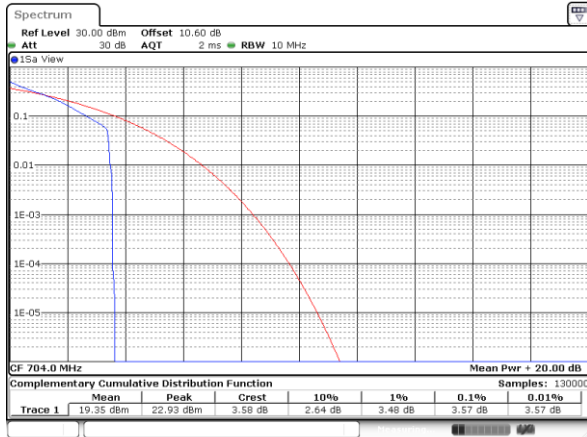
Peak-to-Average Ratio

Mode	LTE Band 12 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.57	5.10	5.22	5.94	PASS
Middle CH	3.45	5.04	4.96	5.77	
Highest CH	3.71	4.90	5.19	5.88	
Mode	LTE Band 12 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.58	6.43	-	-	PASS
Middle CH	5.86	6.46	-	-	
Highest CH	6.03	6.38	-	-	



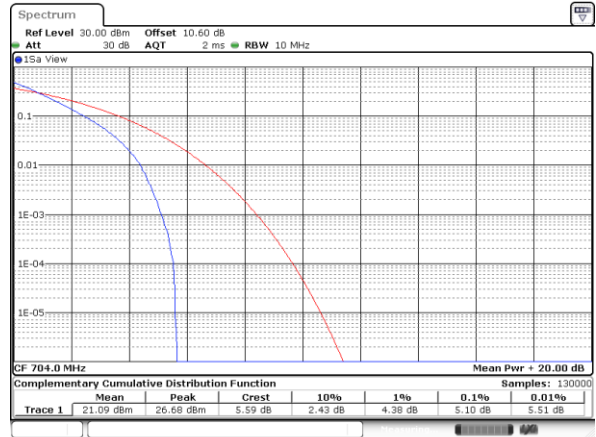
LTE Band 12 / 10MHz / QPSK

Lowest Channel / 1RB



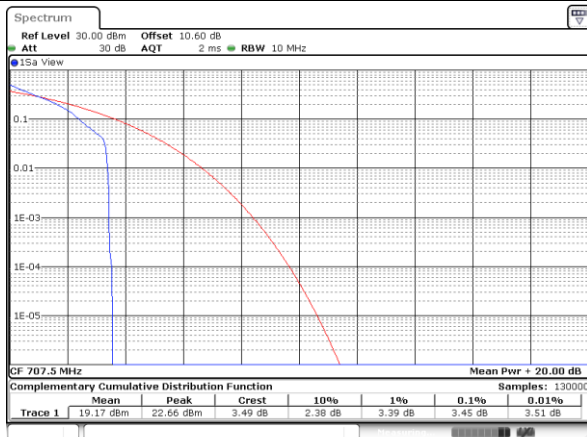
Date: 14, JAN, 2020 22:25:50

Lowest Channel / Full RB



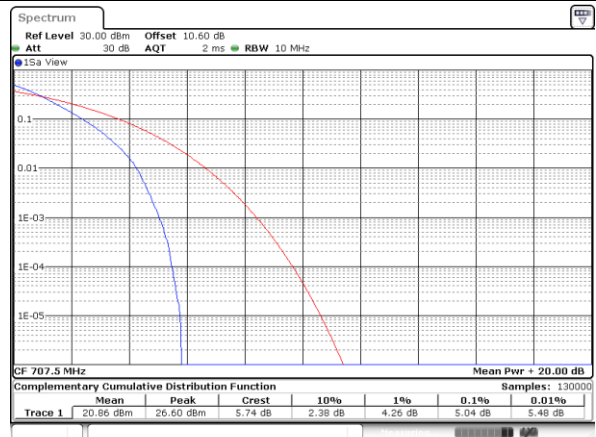
Date: 14, JAN, 2020 22:25:37

Middle Channel / 1RB



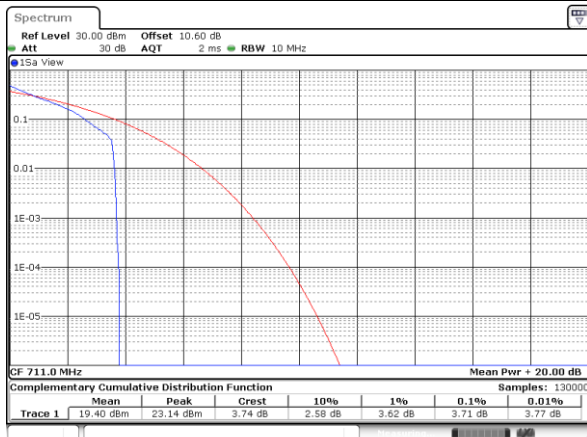
Date: 14, JAN, 2020 22:26:03

Middle Channel / Full RB



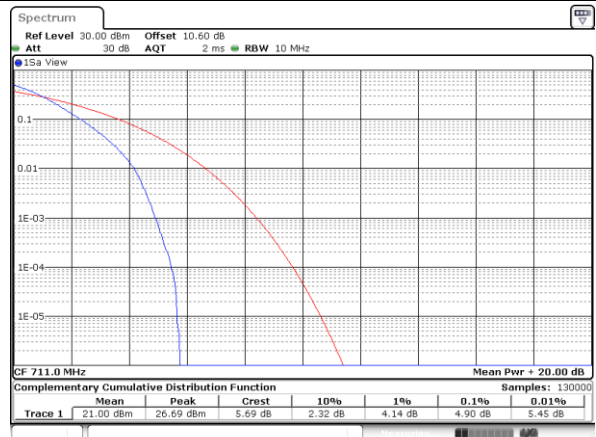
Date: 14, JAN, 2020 22:27:26

Highest Channel / 1RB



Date: 14, JAN, 2020 22:26:46

Highest Channel / Full RB

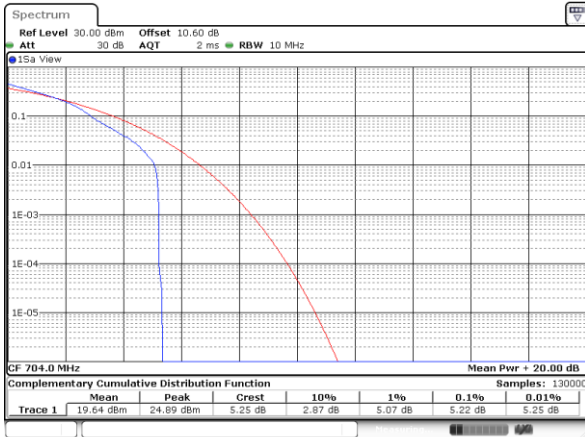


Date: 14, JAN, 2020 22:26:33



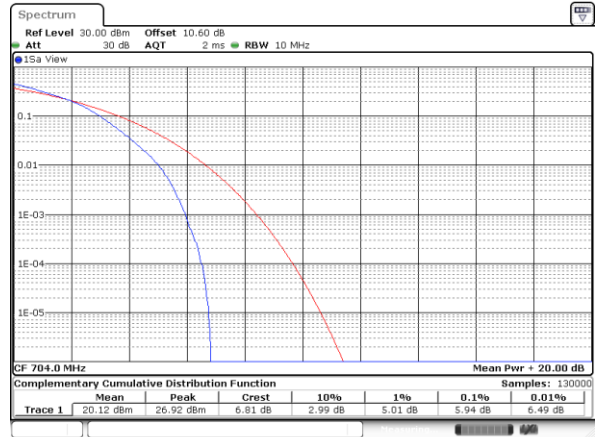
LTE Band 12 / 10MHz / 16QAM

Lowest Channel / 1RB



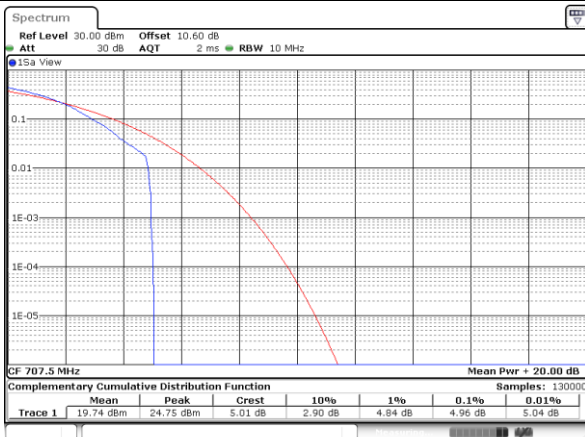
Date: 14, JAN, 2020 22:24:27

Lowest Channel / Full RB



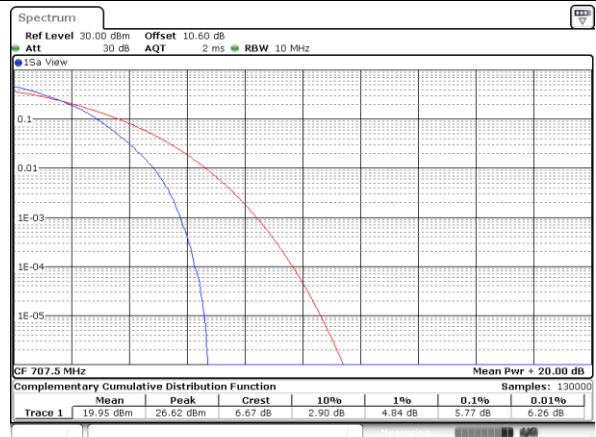
Date: 14, JAN, 2020 22:24:13

Middle Channel / 1RB



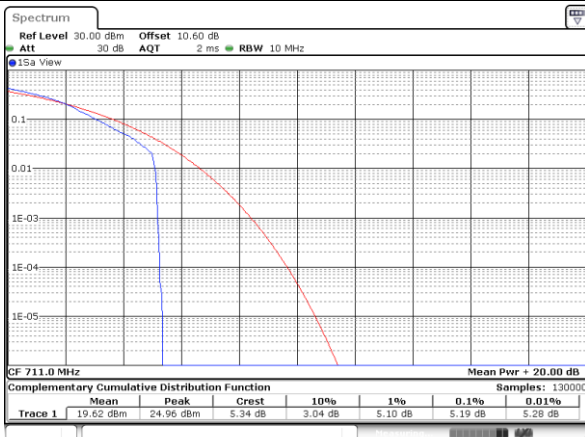
Date: 14, JAN, 2020 22:24:40

Middle Channel / Full RB



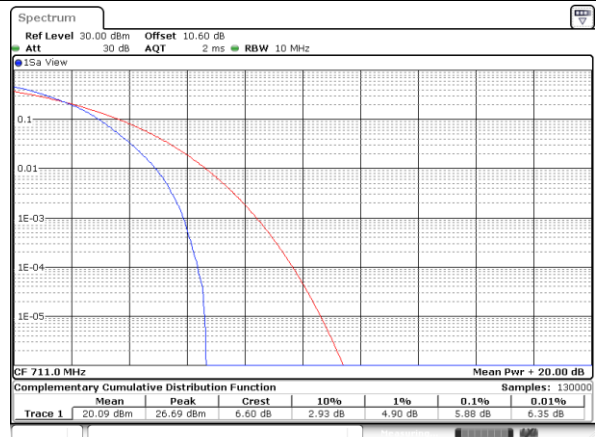
Date: 14, JAN, 2020 22:27:48

Highest Channel / 1RB



Date: 14, JAN, 2020 22:25:23

Highest Channel / Full RB

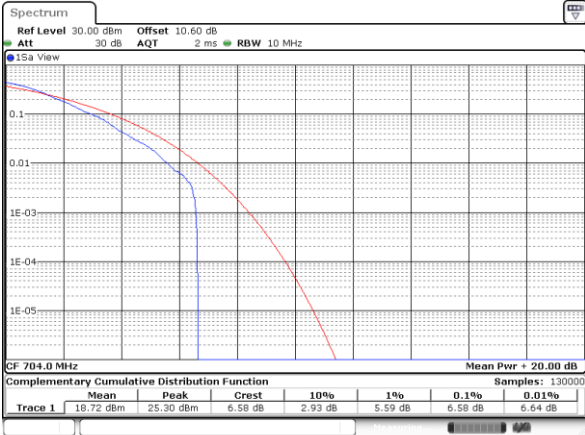


Date: 14, JAN, 2020 22:25:10



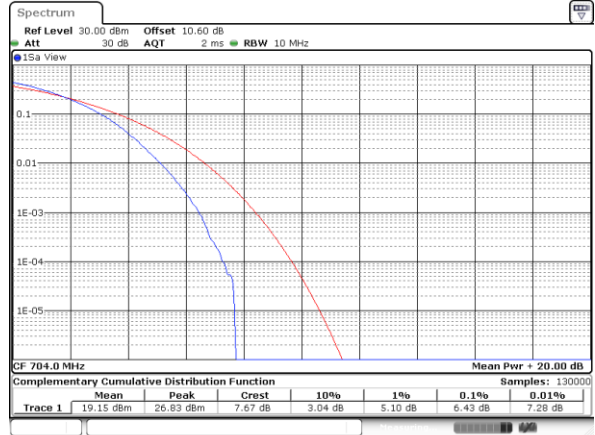
LTE Band 12 / 10MHz / 64QAM

Lowest Channel / 1RB



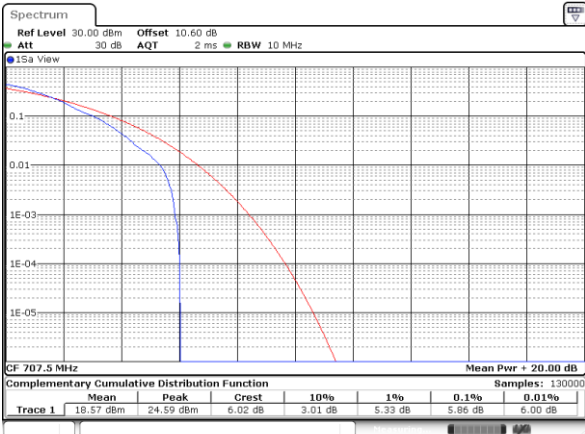
Date: 14, JAN, 2020 22:23:08

Lowest Channel / Full RB



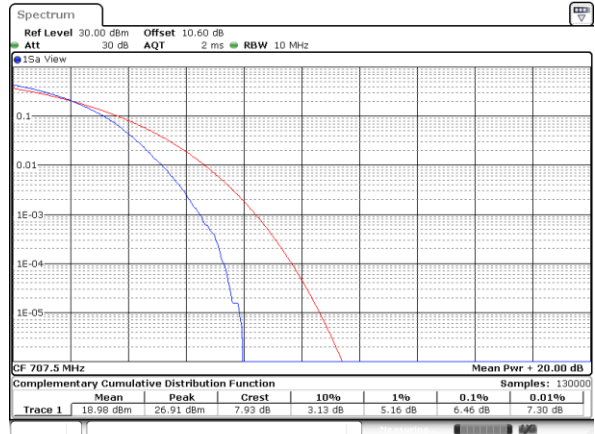
Date: 14, JAN, 2020 22:22:54

Middle Channel / 1RB



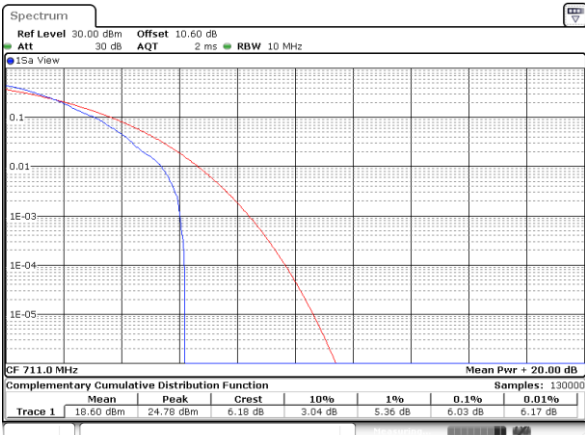
Date: 14, JAN, 2020 22:23:21

Middle Channel / Full RB



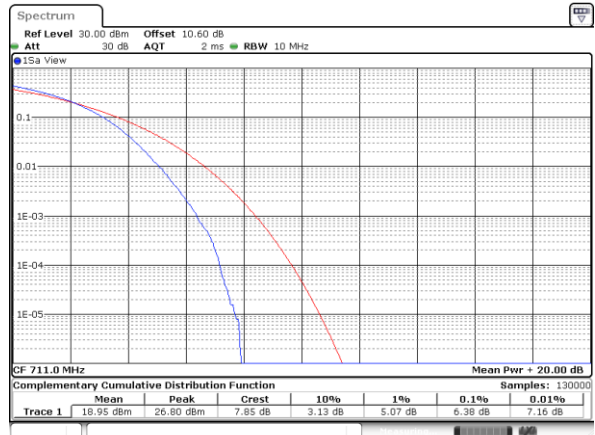
Date: 14, JAN, 2020 22:23:33

Highest Channel / 1RB



Date: 14, JAN, 2020 22:23:59

Highest Channel / Full RB



Date: 14, JAN, 2020 22:23:46



26dB Bandwidth

Mode BW	LTE Band 12 : 26dB BW(MHz)											
	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	2.98	3.05	4.97	4.90	9.75	9.61	-	-	-	-
Middle CH	1.22	1.22	3.03	3.00	4.80	4.90	9.85	9.71	-	-	-	-
Highest CH	1.24	1.23	3.05	2.97	4.95	4.90	9.67	9.79	-	-	-	-
Mode	LTE Band 12 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.23	-	3.03	-	4.95	-	9.79	-	-	-	-	-
Middle CH	1.22	-	3.01	-	4.85	-	9.93	-	-	-	-	-
Highest CH	1.23	-	3.02	-	4.84	-	9.75	-	-	-	-	-