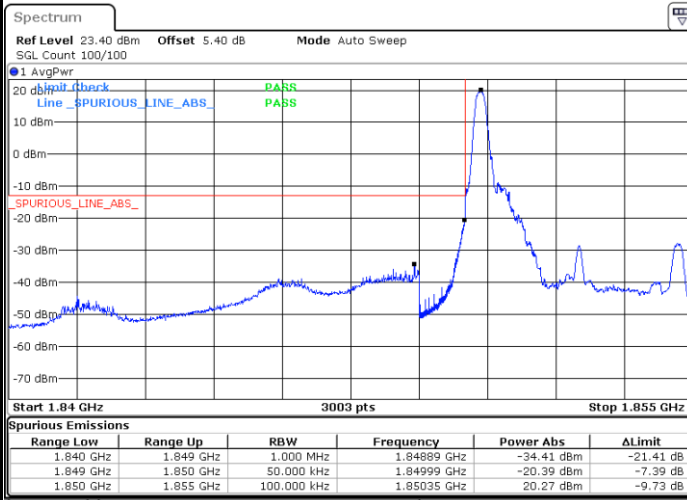


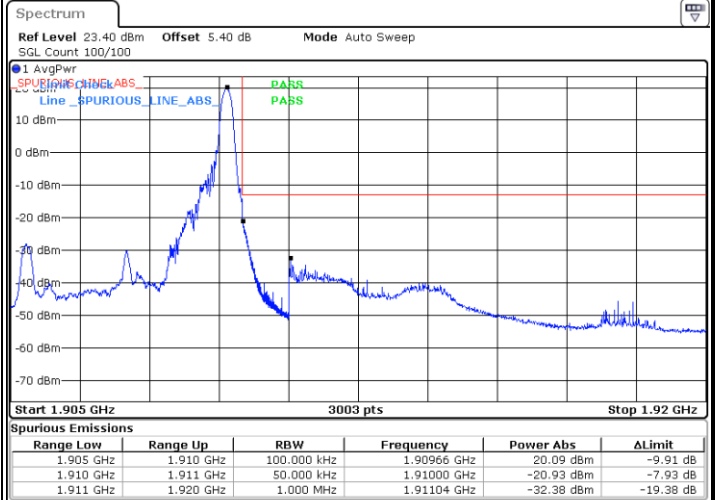


LTE Band 2 / 5MHz / 16QAM

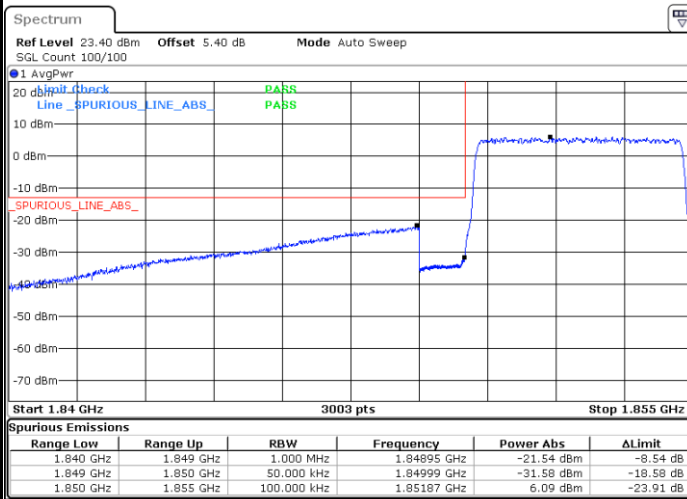
Lowest Band Edge / 1RB



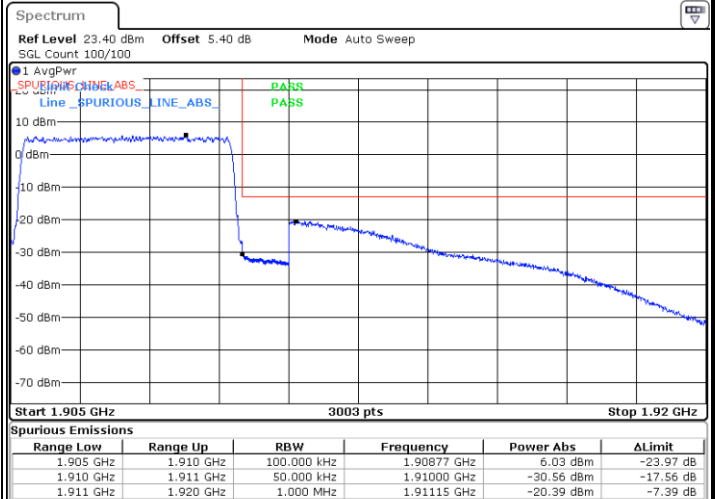
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



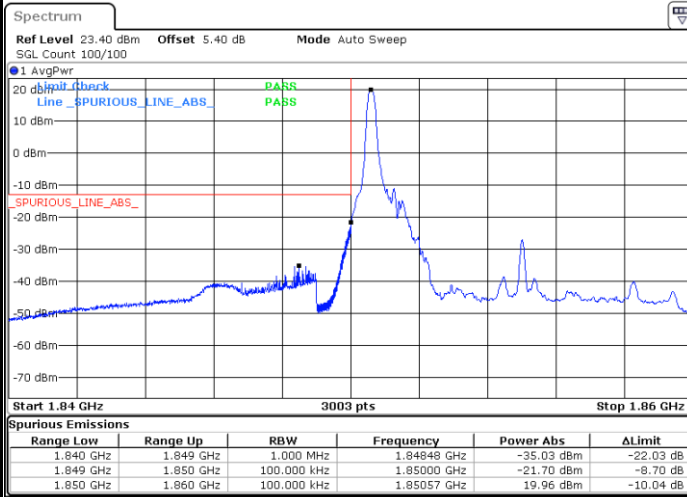
Highest Band Edge / Full RB





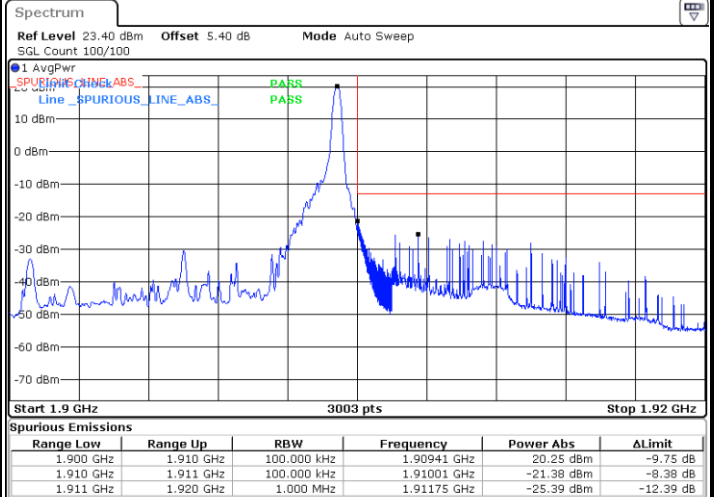
LTE Band 2 / 10MHz / QPSK

Lowest Band Edge / 1 RB



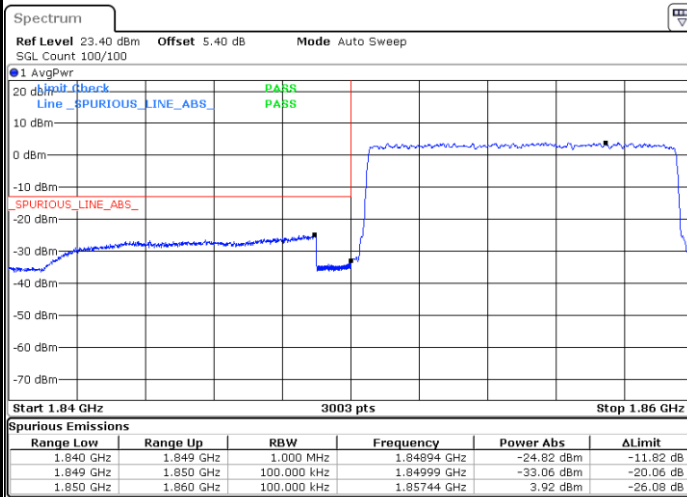
Date: 27.JAN.2020 08:34:24

Highest Band Edge / 1 RB



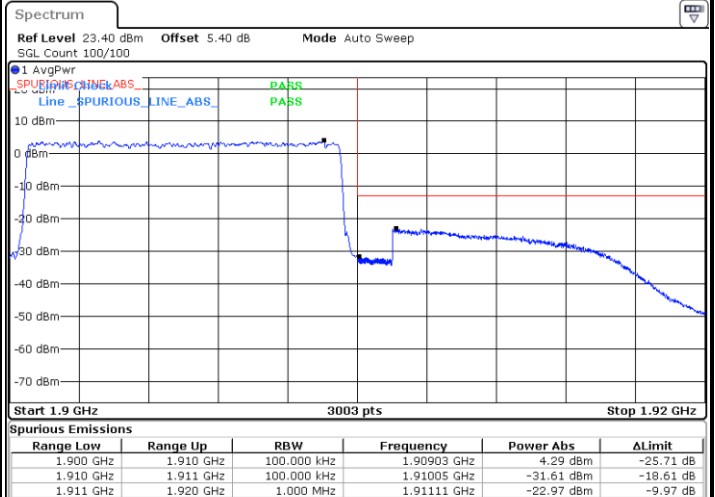
Date: 27.JAN.2020 08:43:52

Lowest Band Edge / Full RB



Date: 27.JAN.2020 08:36:39

Highest Band Edge / Full RB

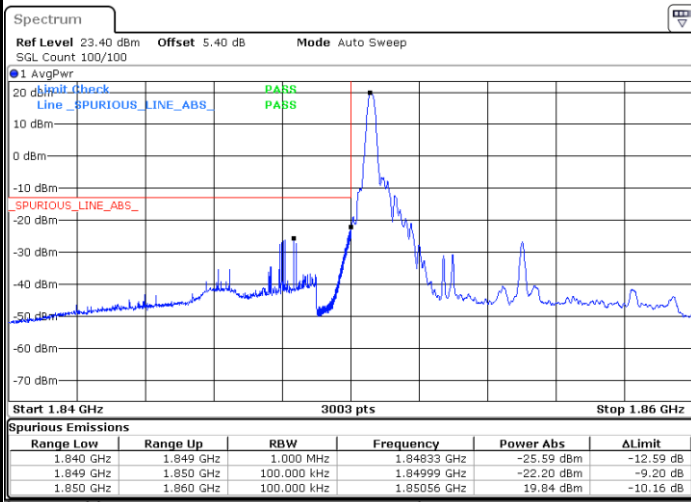


Date: 27.JAN.2020 08:46:07



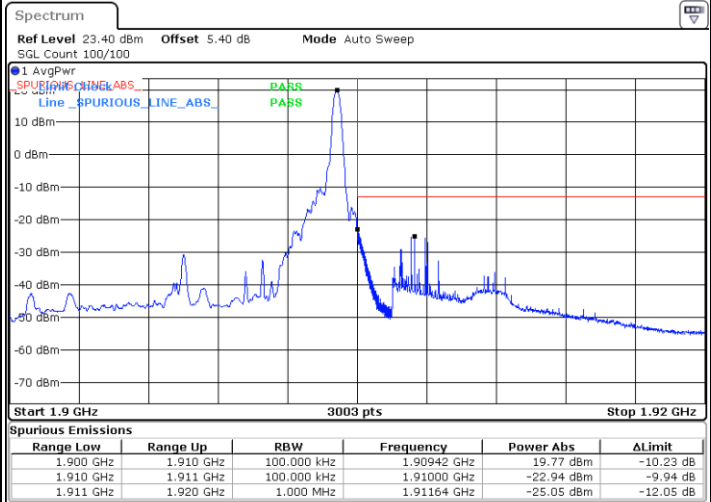
LTE Band 2 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



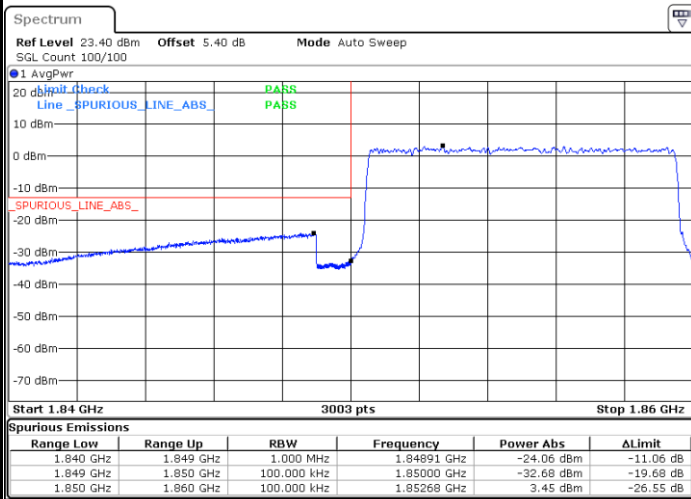
Date: 27.JAN.2020 08:35:32

Highest Band Edge / 1 RB



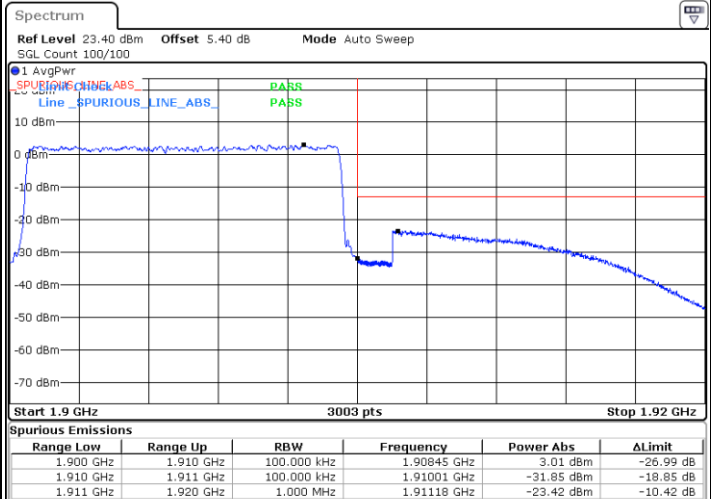
Date: 27.JAN.2020 08:45:00

Lowest Band Edge / Full RB



Date: 27.JAN.2020 08:37:47

Highest Band Edge / Full RB

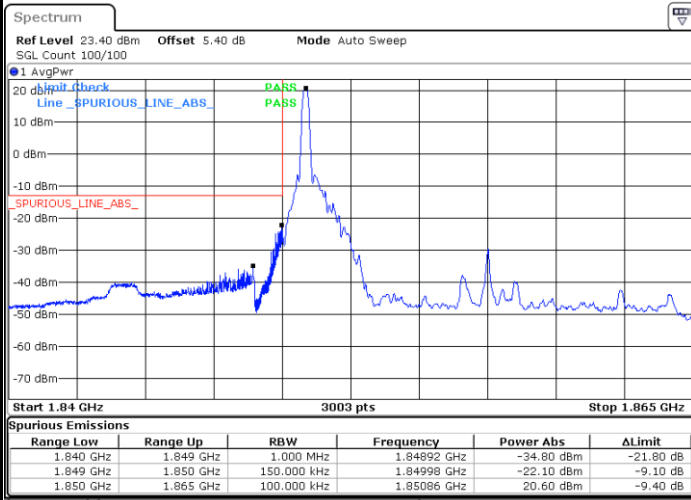


Date: 27.JAN.2020 08:47:15



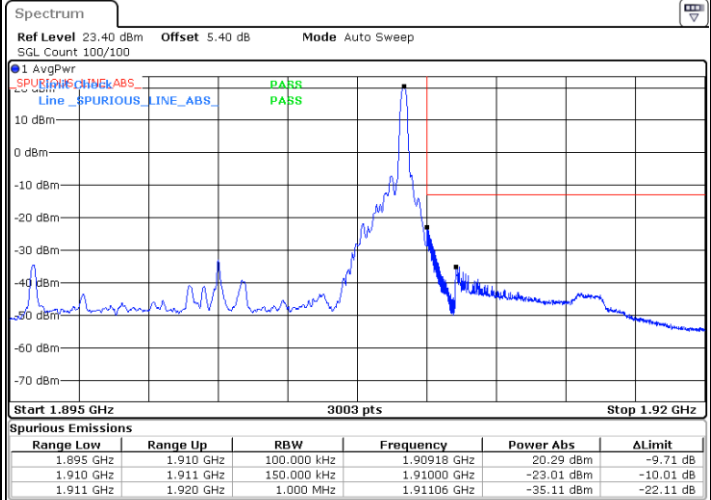
LTE Band 2 / 15MHz / QPSK

Lowest Band Edge / 1 RB



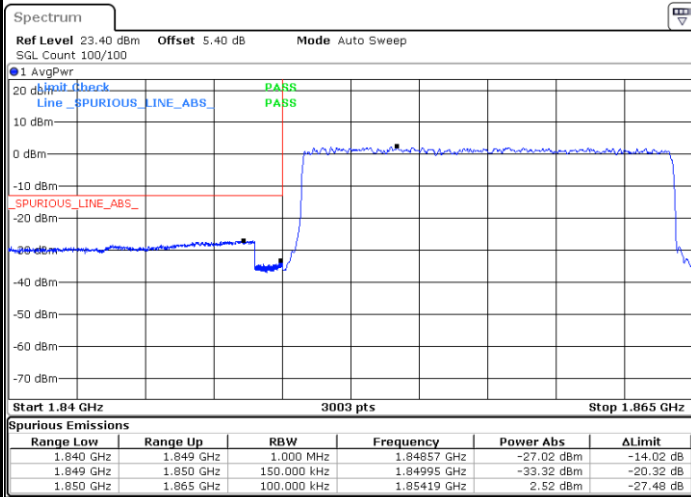
Date: 27.JAN.2020 08:50:51

Highest Band Edge / 1 RB



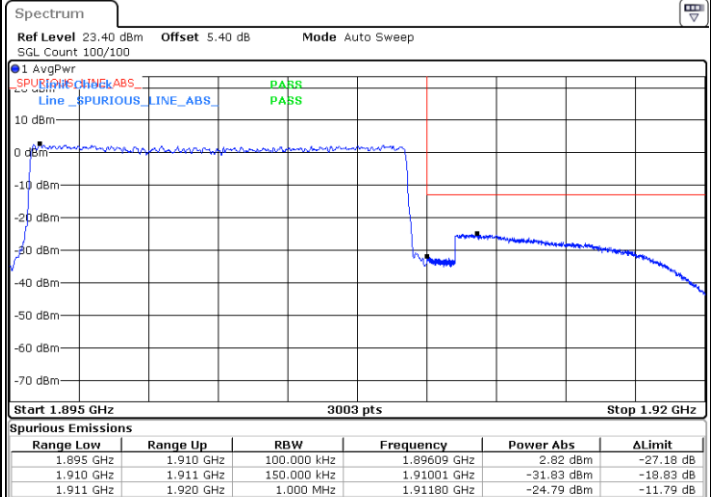
Date: 27.JAN.2020 09:00:19

Lowest Band Edge / Full RB



Date: 27.JAN.2020 08:53:06

Highest Band Edge / Full RB

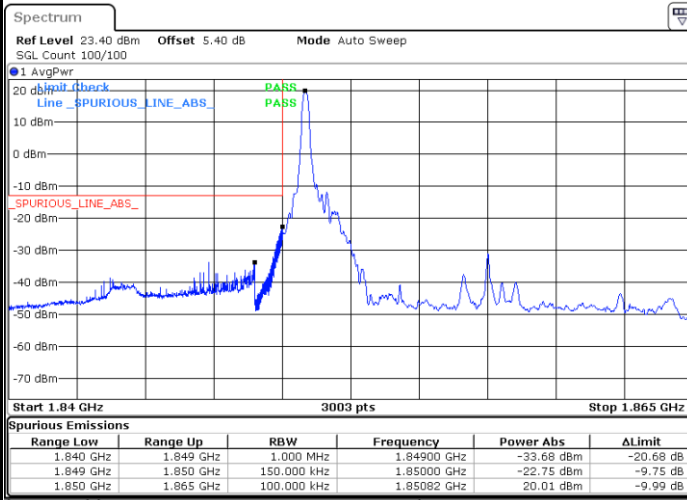


Date: 27.JAN.2020 09:02:34



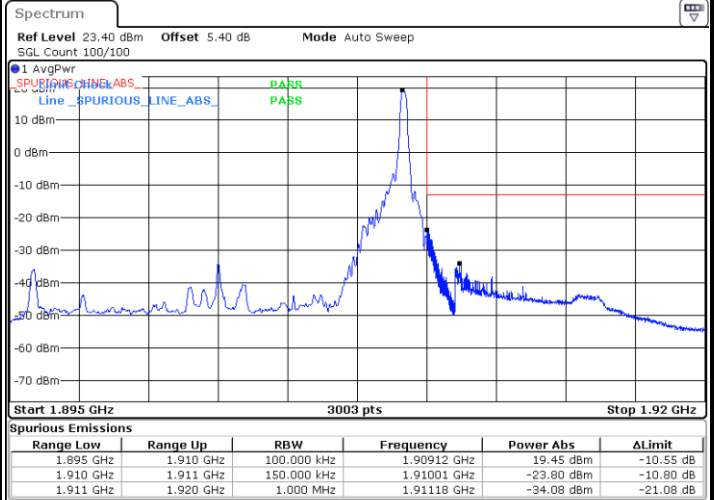
LTE Band 2 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



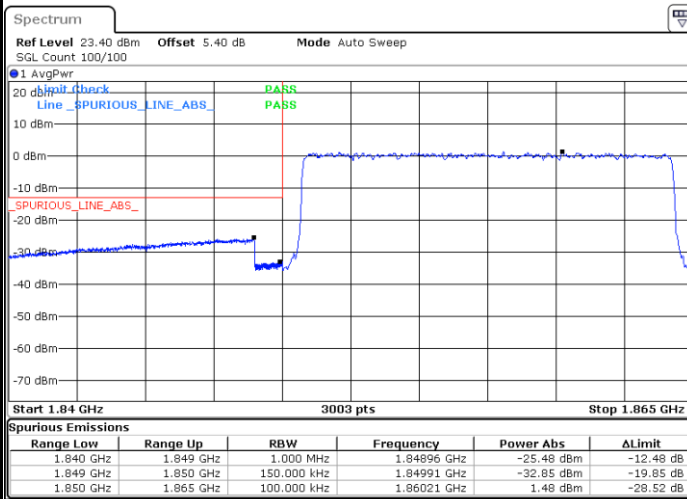
Date: 27.JAN.2020 08:51:59

Highest Band Edge / 1 RB



Date: 27.JAN.2020 09:01:27

Lowest Band Edge / Full RB



Date: 27.JAN.2020 08:54:14

Highest Band Edge / Full RB

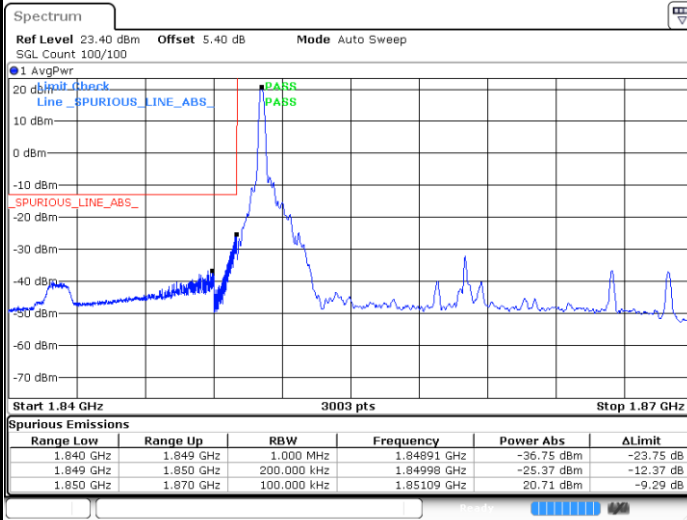


Date: 27.JAN.2020 09:03:42



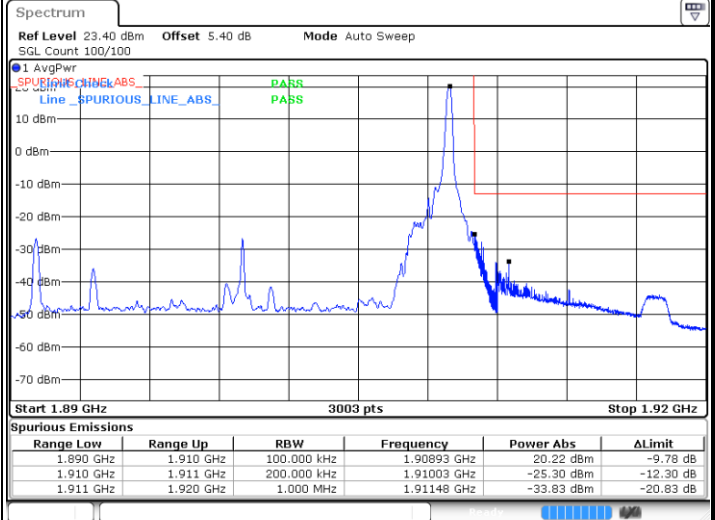
LTE Band 2 / 20MHz / QPSK

Lowest Band Edge / 1 RB



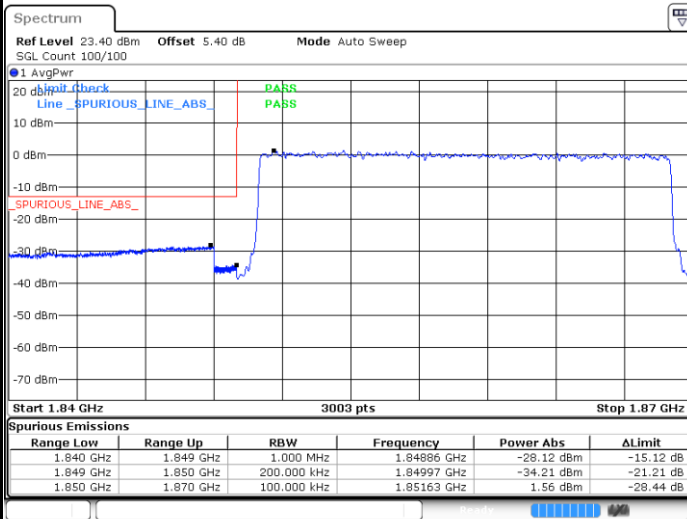
Date: 27.JAN.2020 09:07:18

Highest Band Edge / 1 RB



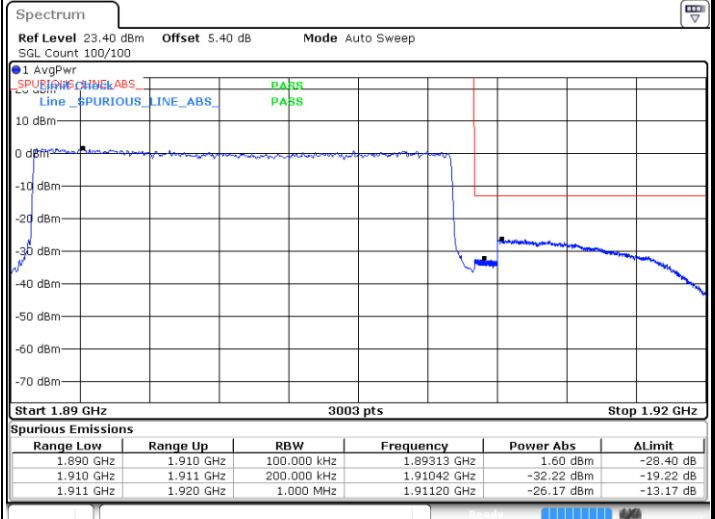
Date: 27.JAN.2020 09:16:47

Lowest Band Edge / Full RB



Date: 27.JAN.2020 09:09:33

Highest Band Edge / Full RB

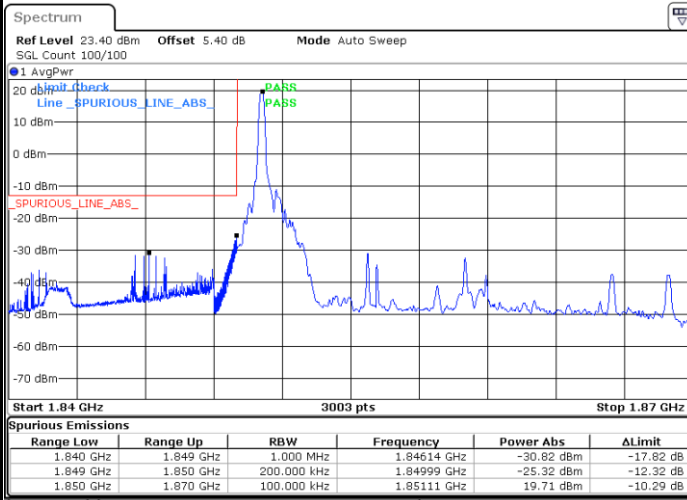


Date: 27.JAN.2020 09:19:02



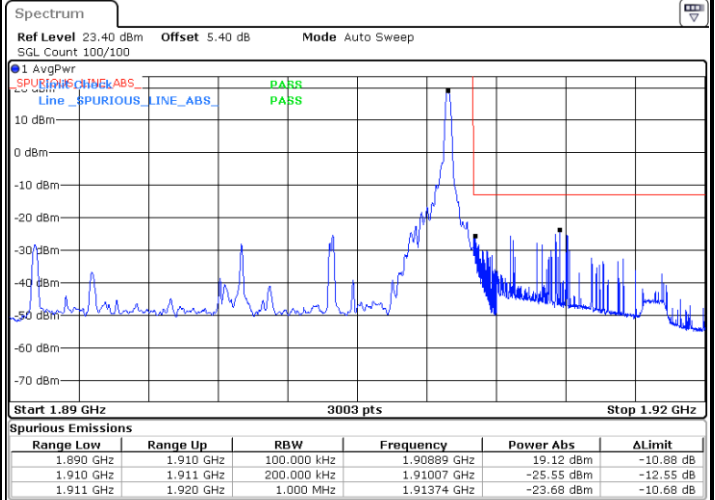
LTE Band 2 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



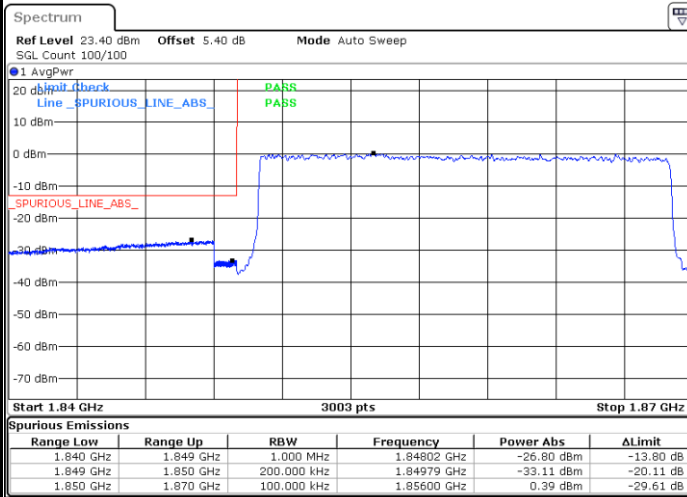
Date: 27.JAN.2020 09:08:26

Highest Band Edge / 1 RB



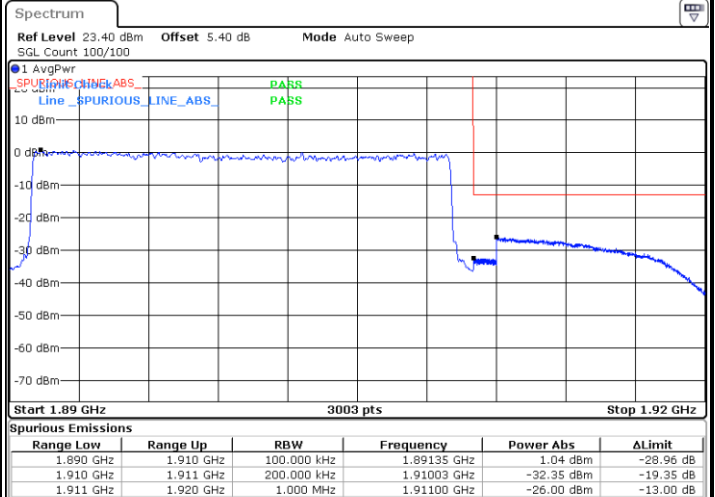
Date: 27.JAN.2020 09:17:55

Lowest Band Edge / Full RB



Date: 27.JAN.2020 09:10:41

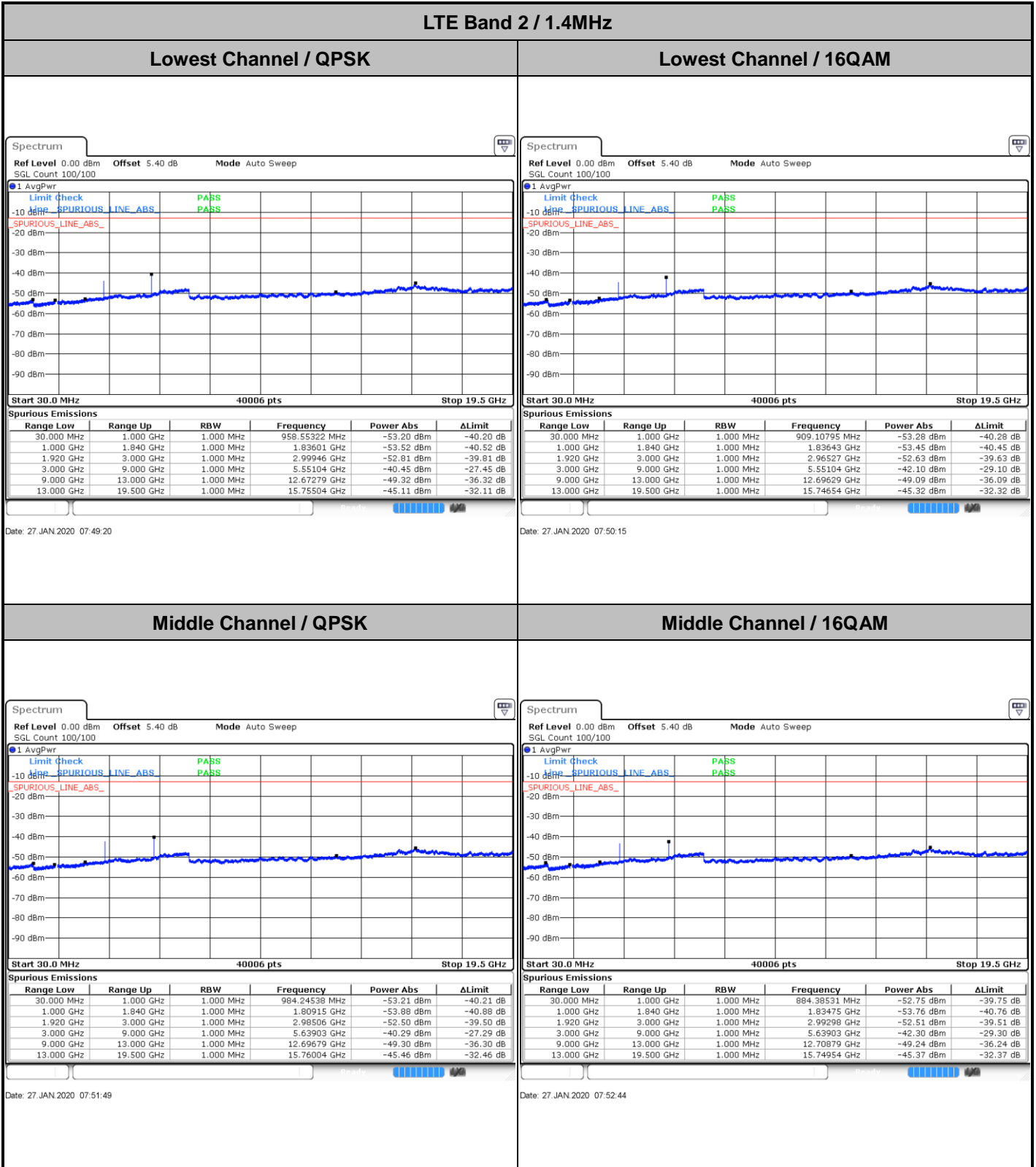
Highest Band Edge / Full RB



Date: 27.JAN.2020 09:20:10



# Conducted Spurious Emission



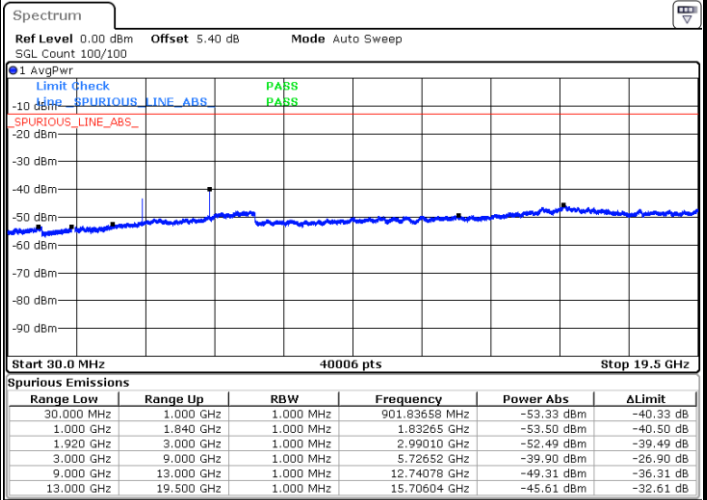
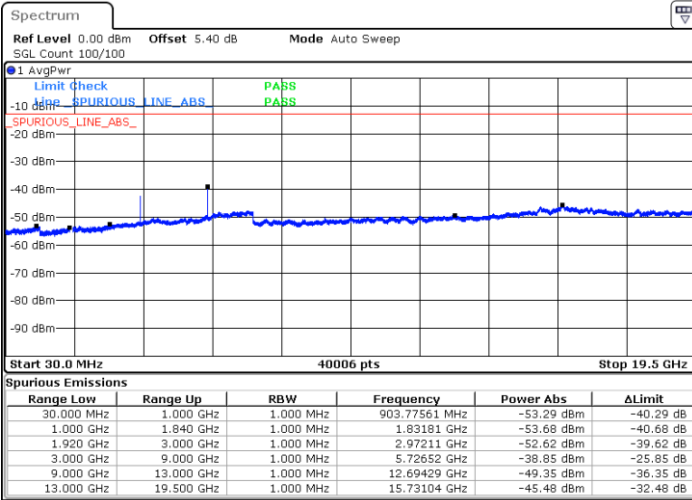




LTE Band 2 / 1.4MHz

Highest Channel / QPSK

Highest Channel / 16QAM



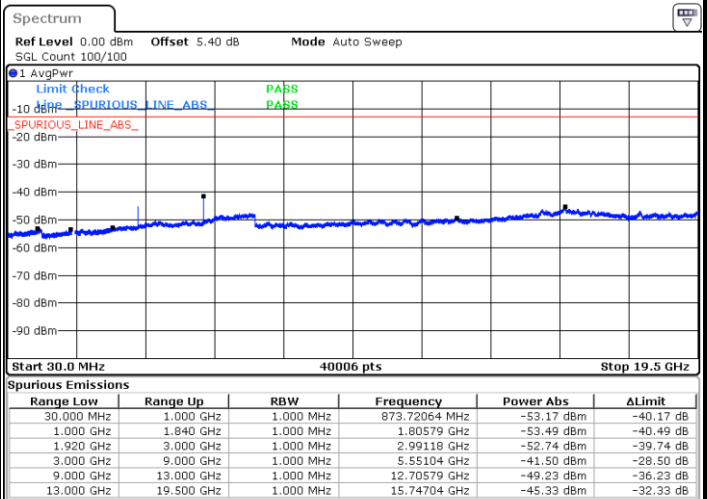
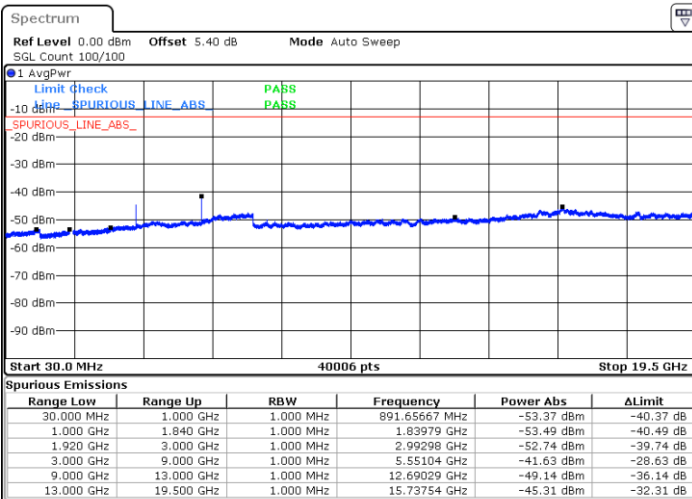
Date: 27. JAN 2020 07:58:48

Date: 27. JAN 2020 07:59:42

LTE Band 2 / 3MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 27. JAN 2020 08:05:47

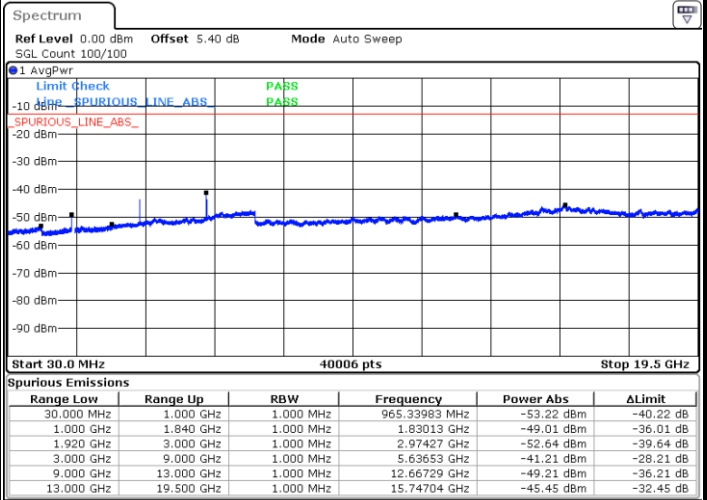
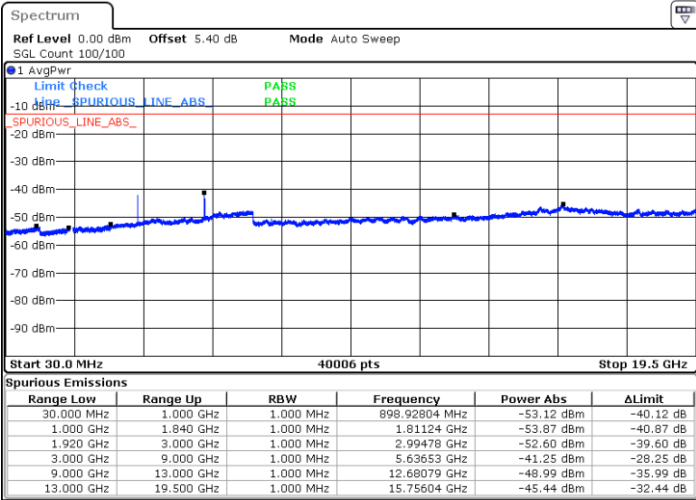
Date: 27. JAN 2020 08:06:42



LTE Band 2 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM

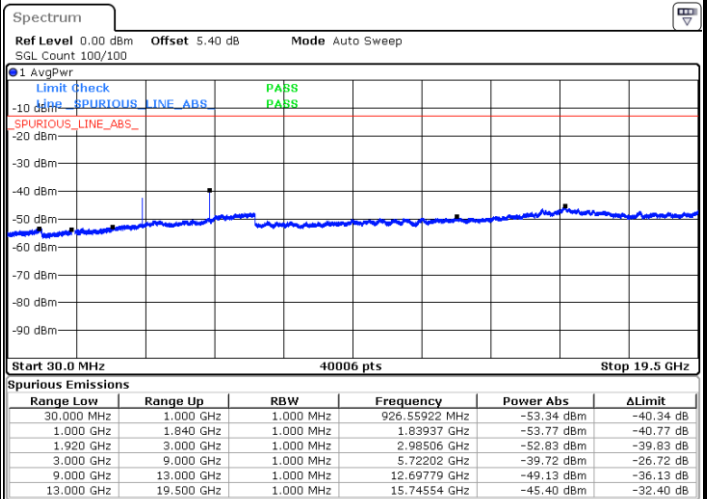
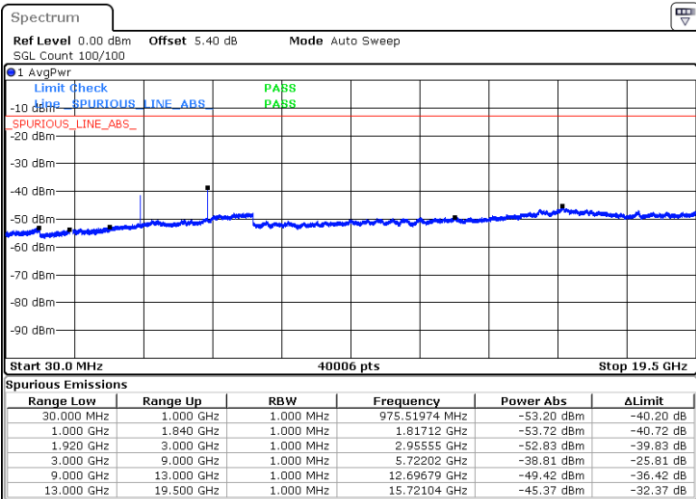


Date: 27. JAN 2020 08:08:16

Date: 27. JAN 2020 08:09:11

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 27. JAN 2020 08:15:15

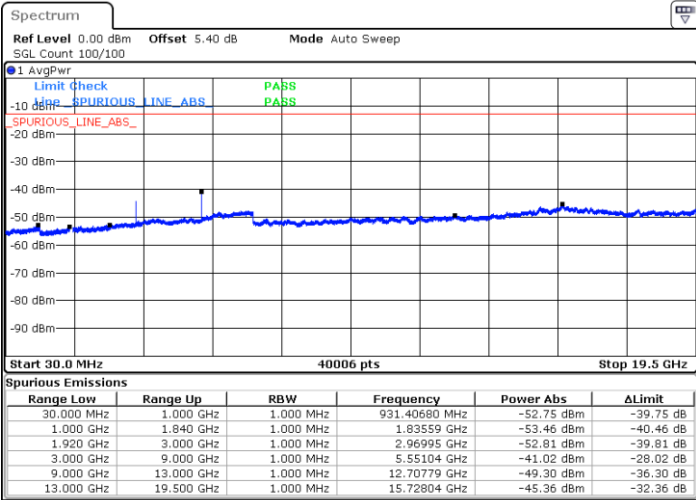
Date: 27. JAN 2020 08:16:09



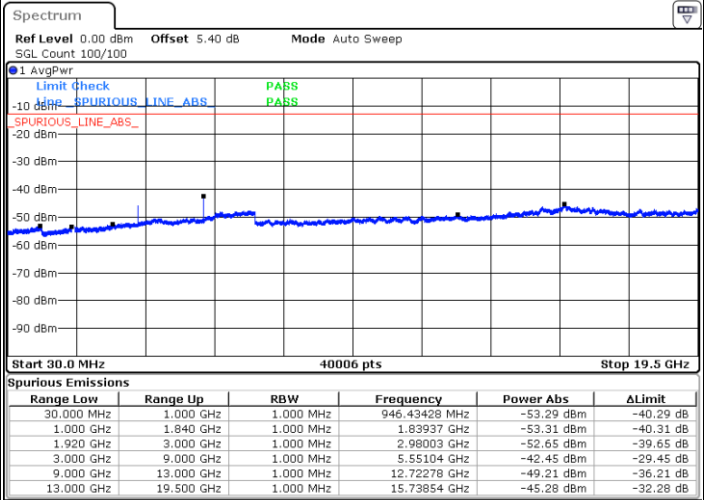
LTE Band 2 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



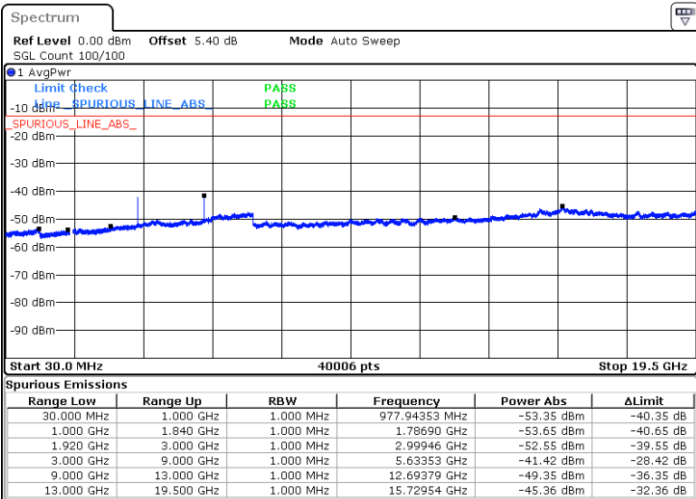
Date: 27. JAN 2020 08:22:14



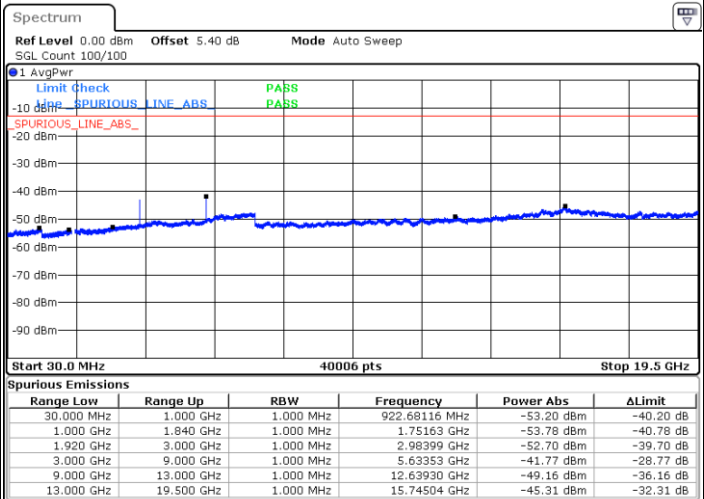
Date: 27. JAN 2020 08:23:08

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 27. JAN 2020 08:24:43

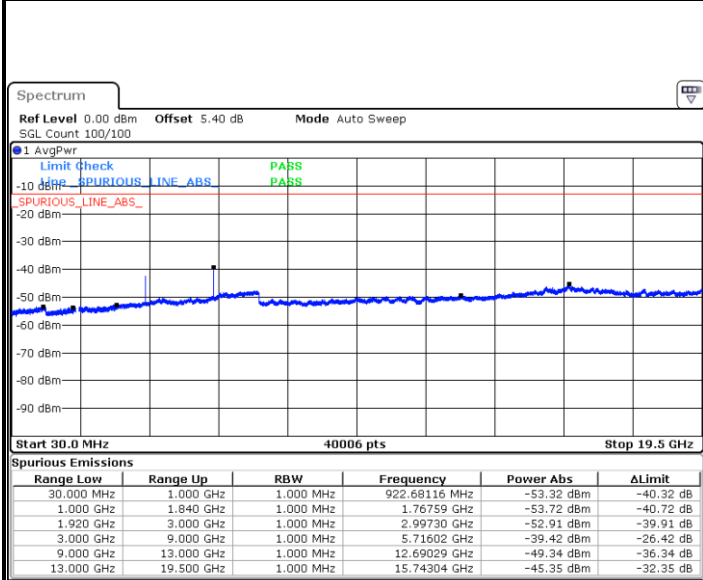


Date: 27. JAN 2020 08:25:37



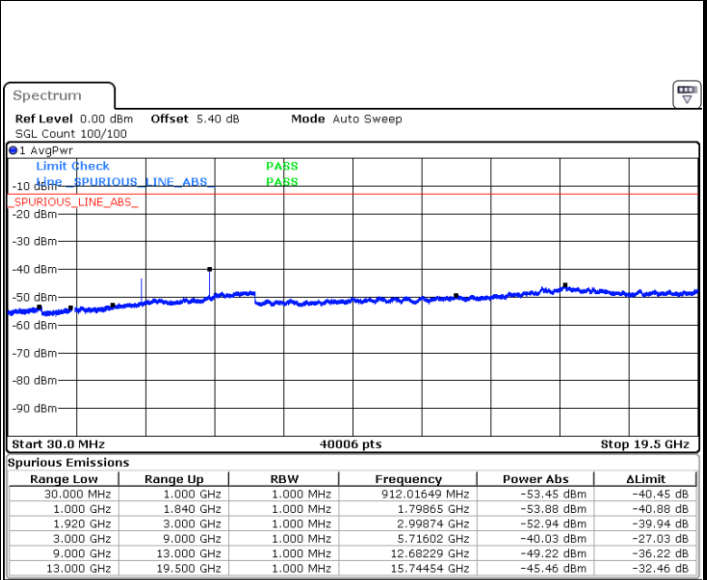
LTE Band 2 / 5MHz

Highest Channel / QPSK



Date: 27. JAN 2020 08:31:41

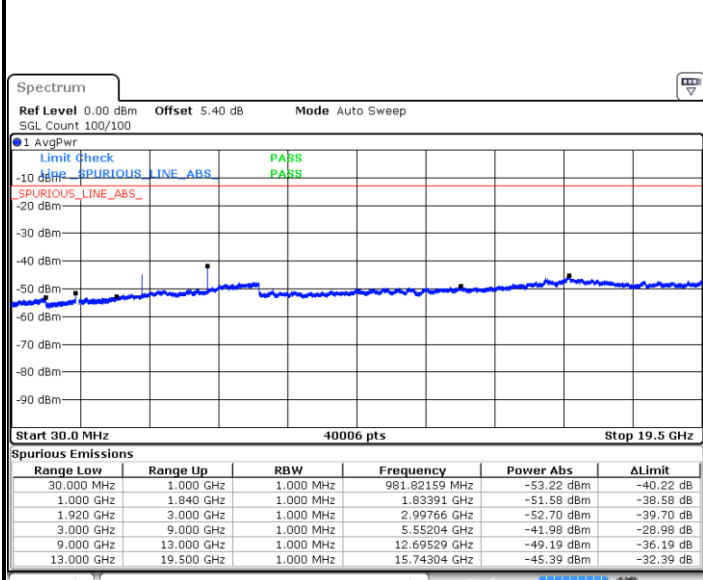
Highest Channel / 16QAM



Date: 27. JAN 2020 08:32:36

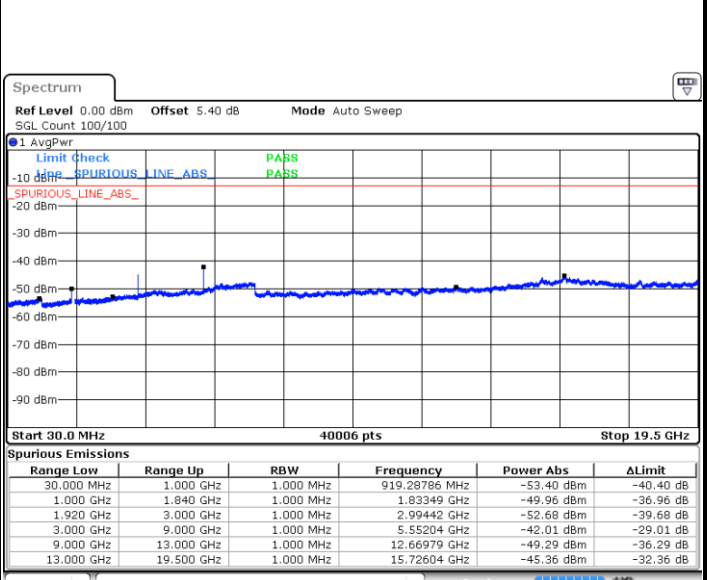
LTE Band 2 / 10MHz

Lowest Channel / QPSK



Date: 27. JAN 2020 08:38:40

Lowest Channel / 16QAM



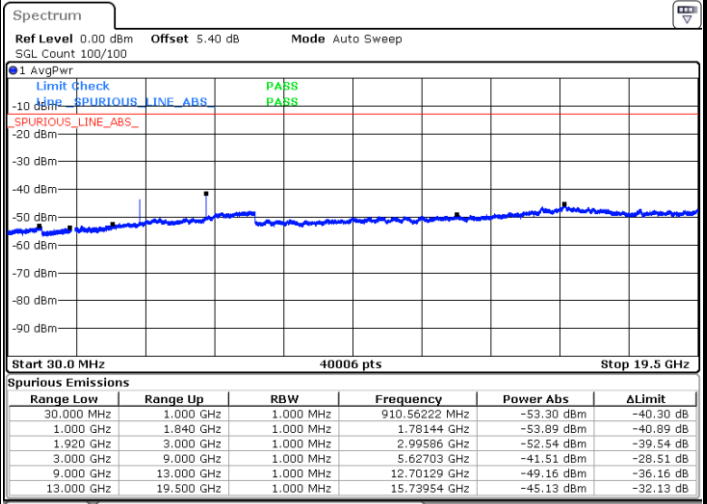
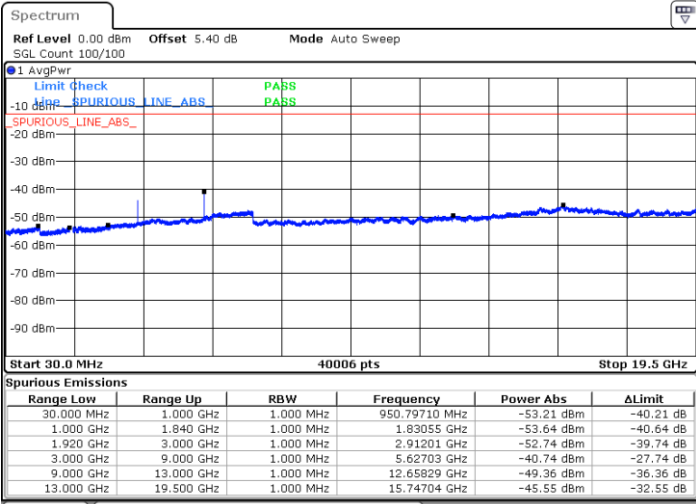
Date: 27. JAN 2020 08:39:35



LTE Band 2 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

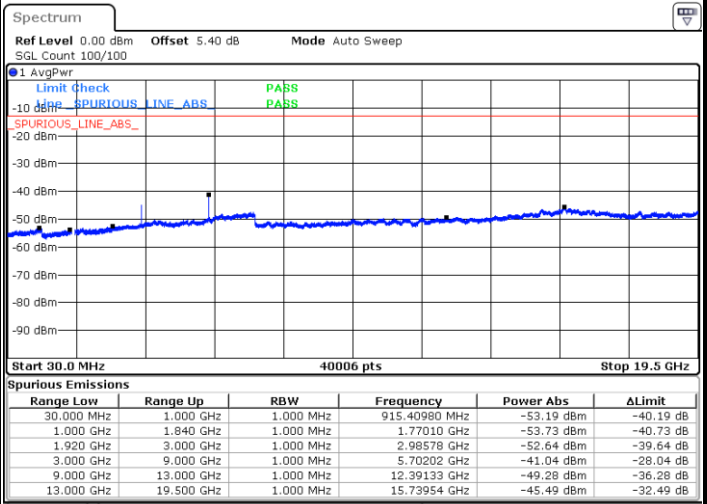
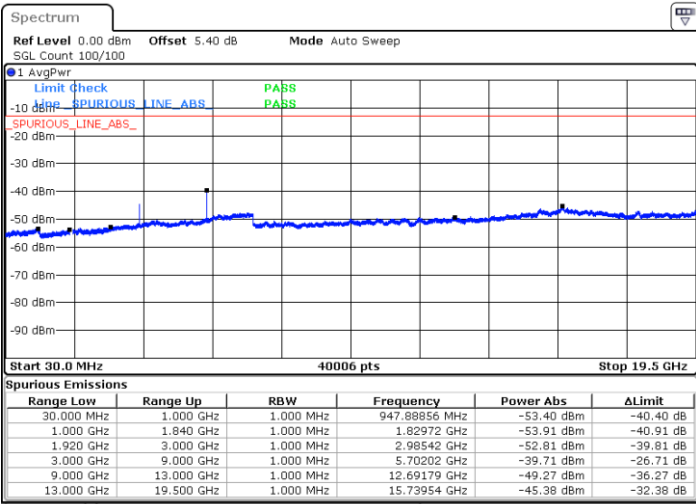


Date: 27. JAN 2020 08:41:09

Date: 27. JAN 2020 08:42:04

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 27. JAN 2020 08:48:08

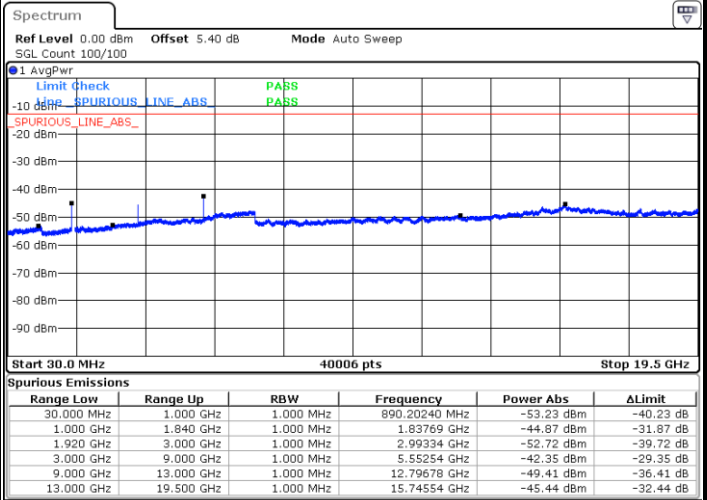
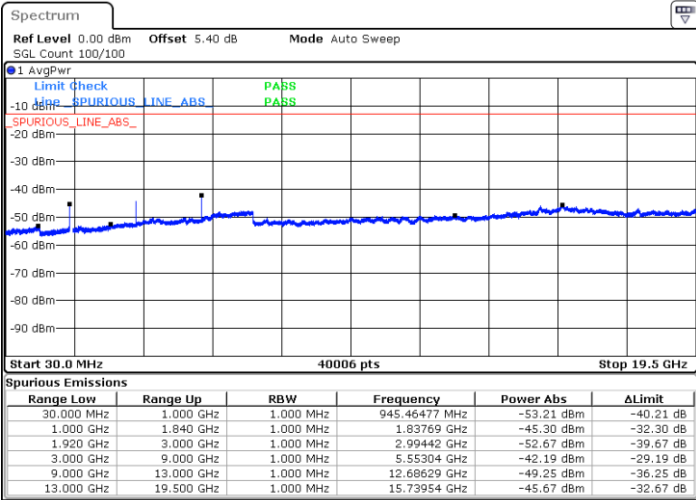
Date: 27. JAN 2020 08:49:03



LTE Band 2 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

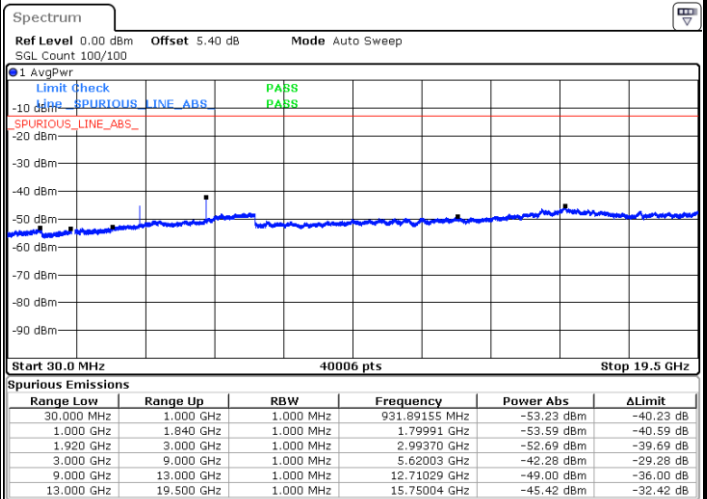
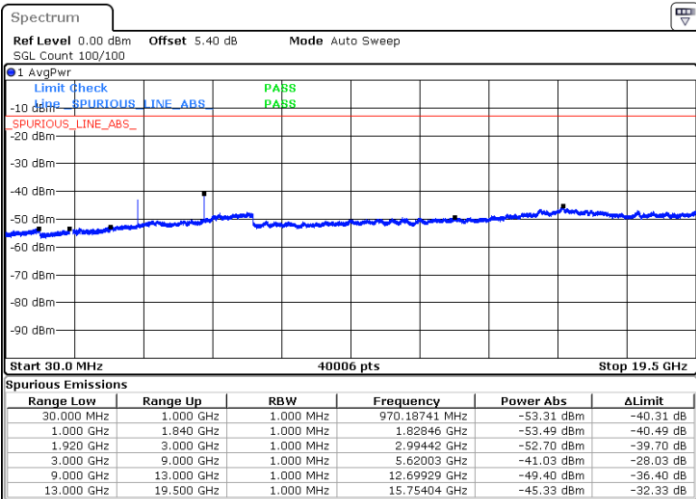


Date: 27. JAN 2020 08:55:07

Date: 27. JAN 2020 08:56:02

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 27. JAN 2020 08:57:36

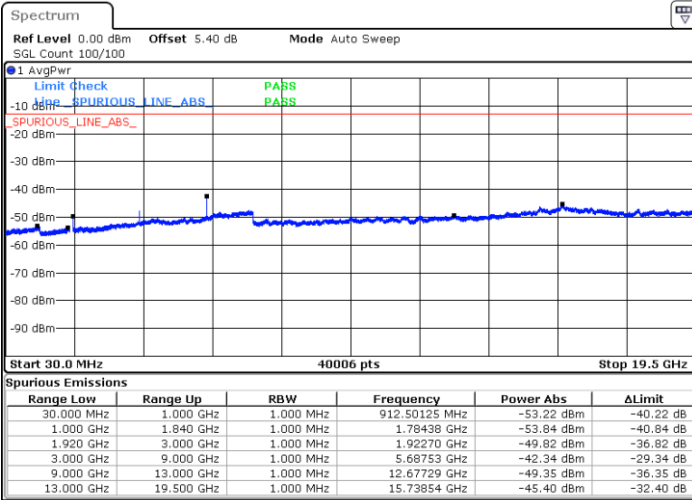
Date: 27. JAN 2020 08:58:31



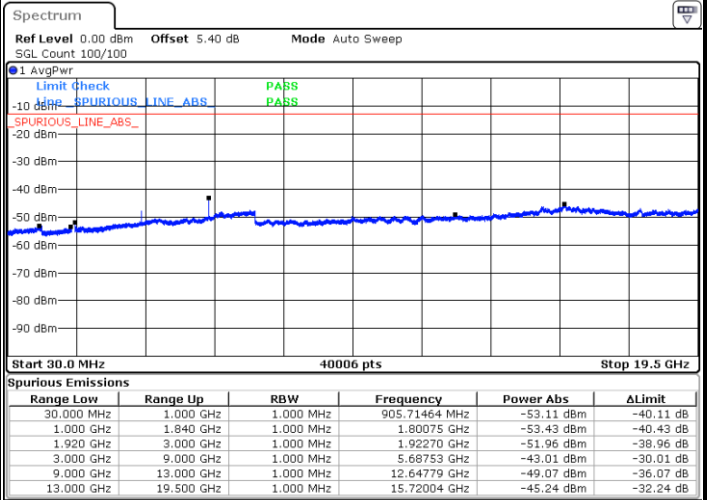
LTE Band 2 / 15MHz

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 27. JAN 2020 09:04:35

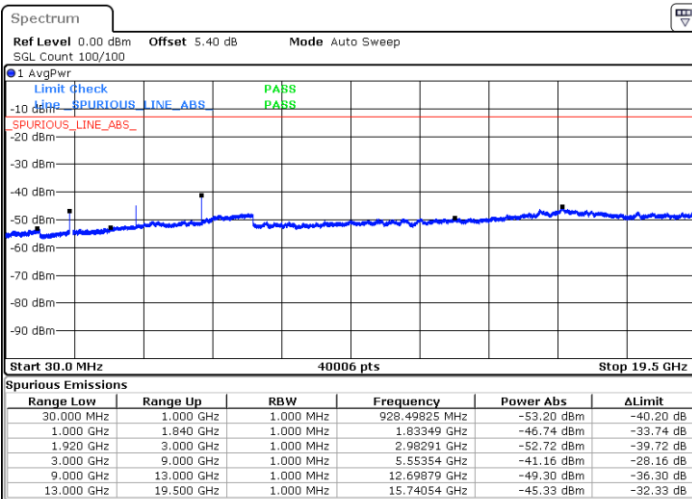


Date: 27. JAN 2020 09:05:30

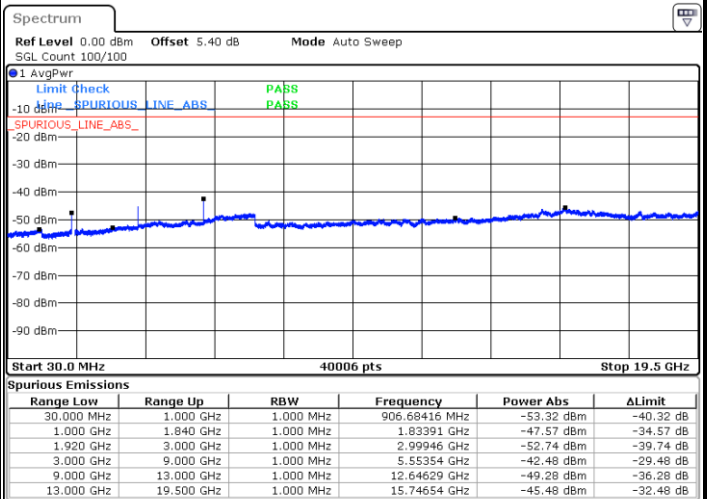
LTE Band 2 / 20MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 27. JAN 2020 09:11:34



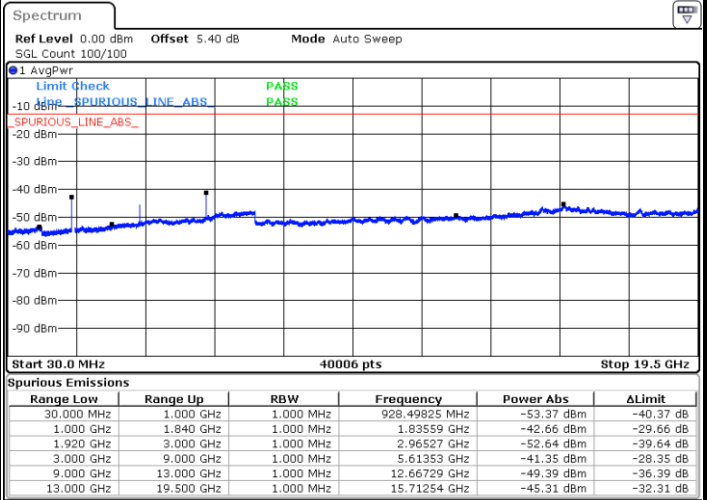
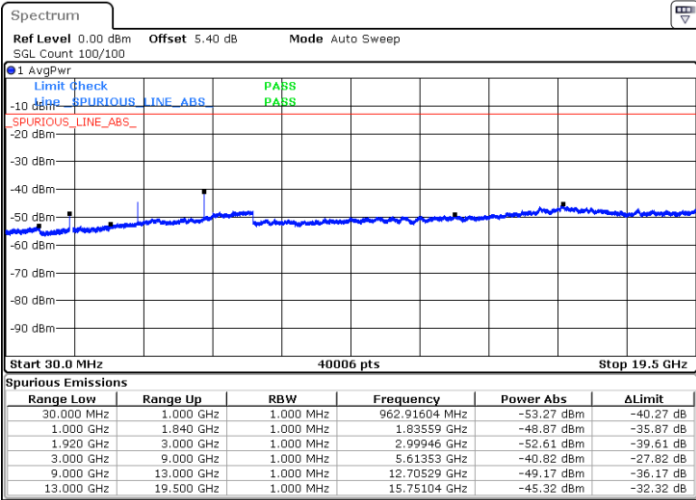
Date: 27. JAN 2020 09:12:29



LTE Band 2 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

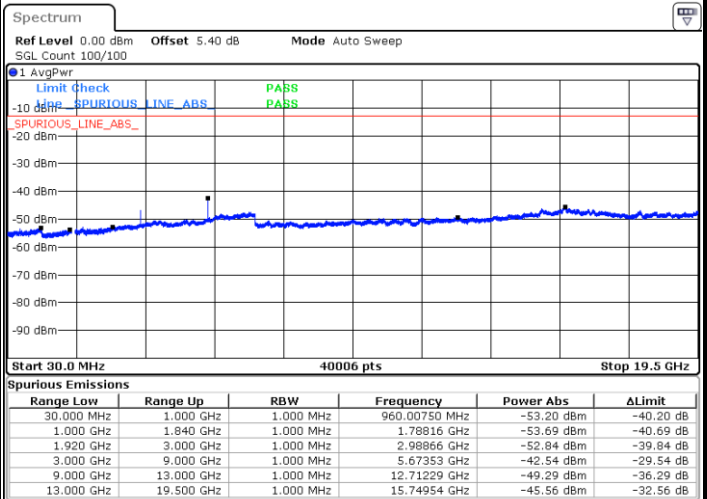
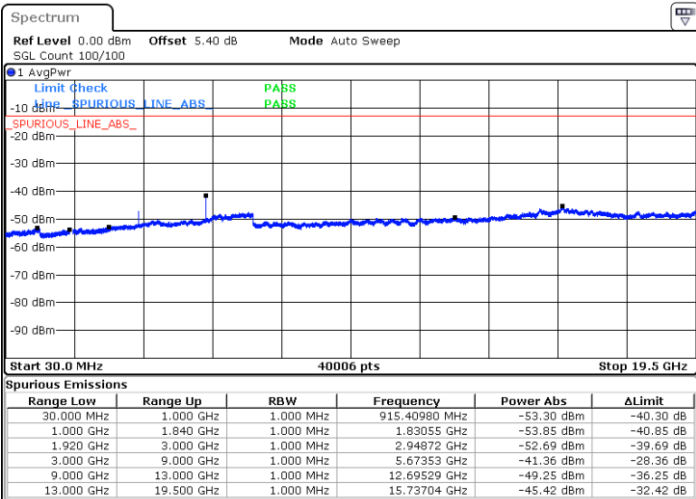


Date: 27. JAN 2020 09:14:04

Date: 27. JAN 2020 09:14:58

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 27. JAN 2020 09:21:03

Date: 27. JAN 2020 09:21:57





Frequency Stability

Test Conditions		LTE Band 2 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0004	PASS
40	Normal Voltage	0.0025	
30	Normal Voltage	0.0007	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0016	
0	Normal Voltage	0.0009	
-10	Normal Voltage	0.0016	
-20	Normal Voltage	0.0024	
-30	Normal Voltage	0.0028	
20	Maximum Voltage	0.0002	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0012	

Note:

1. Normal Voltage =3.7V. ; Battery End Point (BEP) =3.5V. ; Maximum Voltage =4.2V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



## LTE Band 5

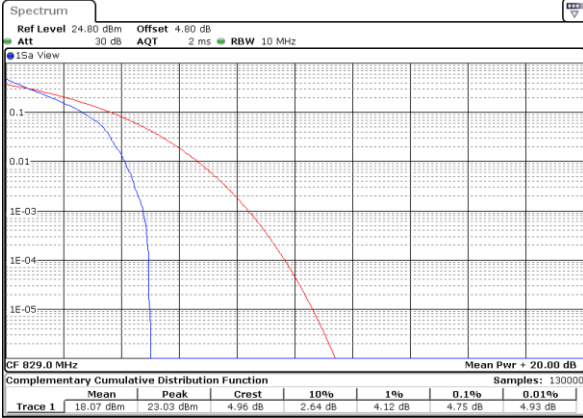
### Peak-to-Average Ratio

Mode	LTE Band 5 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.75	5.25	5.51	6.03	<b>PASS</b>
Middle CH	4.43	4.93	5.25	5.65	
Highest CH	4.41	5.22	5.42	6.23	



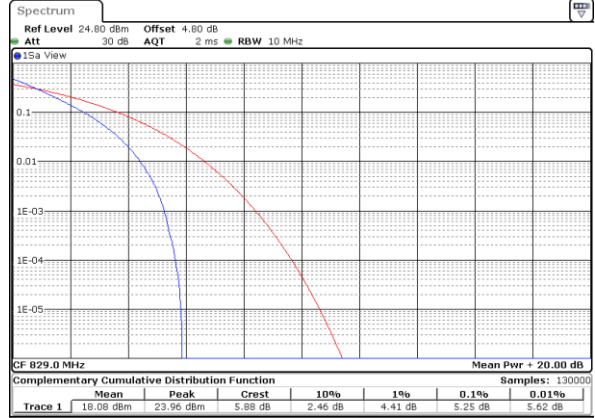
LTE Band 5 / 10MHz / QPSK

Lowest Channel / 1RB



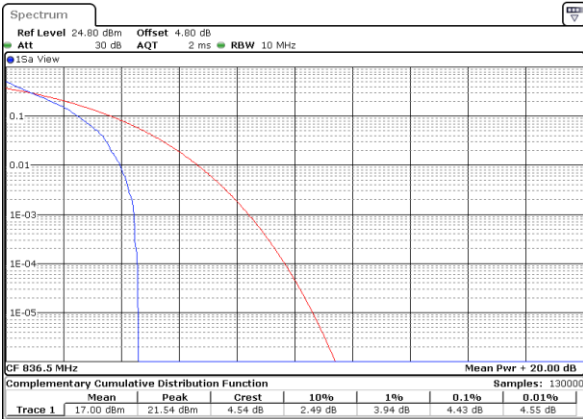
Date: 28 JAN 2020 01:57:38

Lowest Channel / Full RB



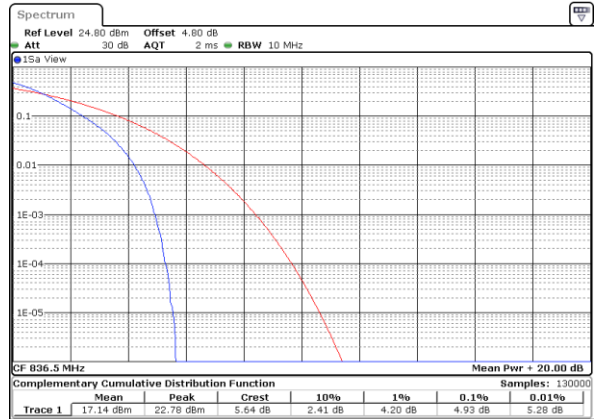
Date: 28 JAN 2020 01:57:46

Middle Channel / 1RB



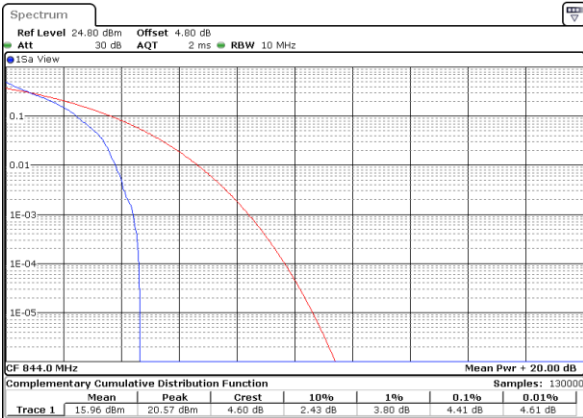
Date: 28 JAN 2020 01:57:29

Middle Channel / Full RB



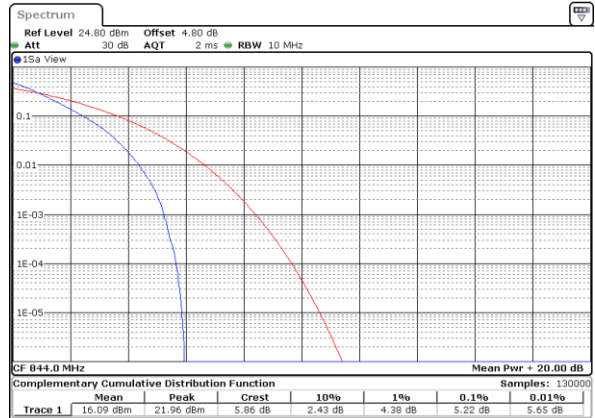
Date: 28 JAN 2020 01:57:20

Highest Channel / 1RB



Date: 28 JAN 2020 01:57:03

Highest Channel / Full RB

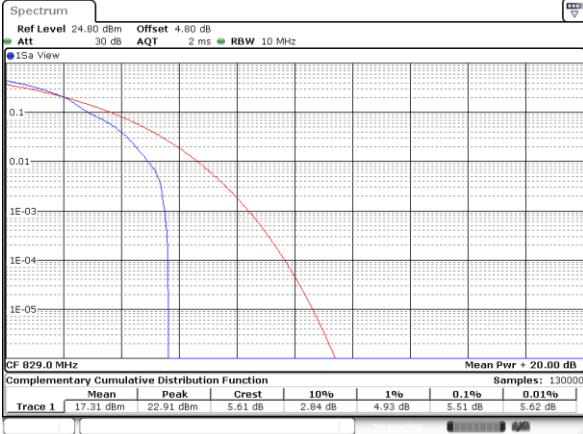


Date: 28 JAN 2020 01:57:12



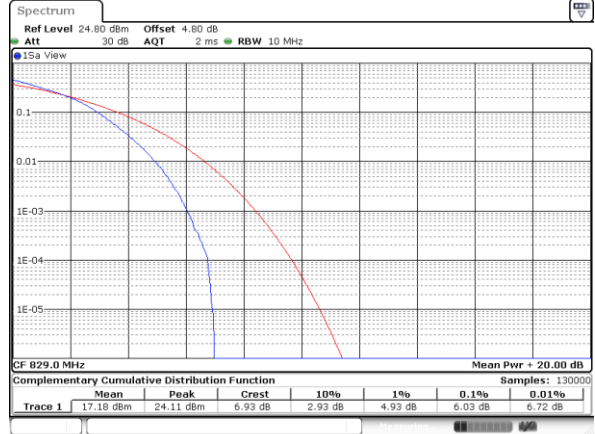
LTE Band 5 / 10MHz / 16QAM

Lowest Channel / 1RB



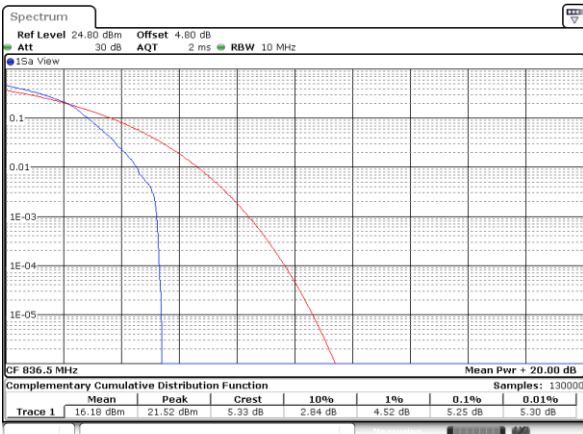
Date: 28 JAN 2020 01:56:08

Lowest Channel / Full RB



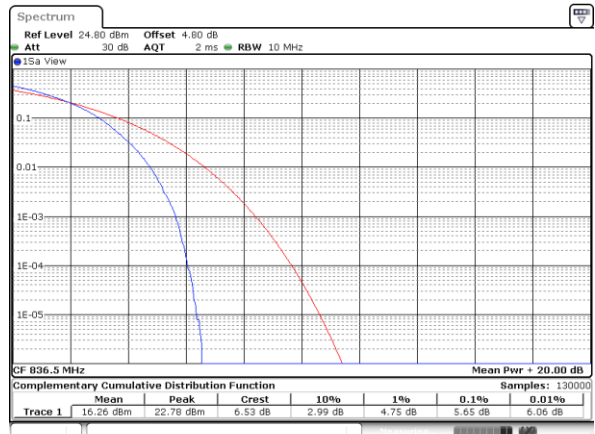
Date: 28 JAN 2020 01:56:17

Middle Channel / 1RB



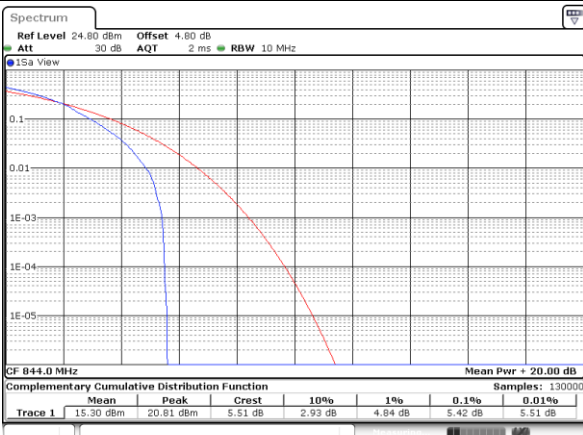
Date: 28 JAN 2020 01:56:26

Middle Channel / Full RB



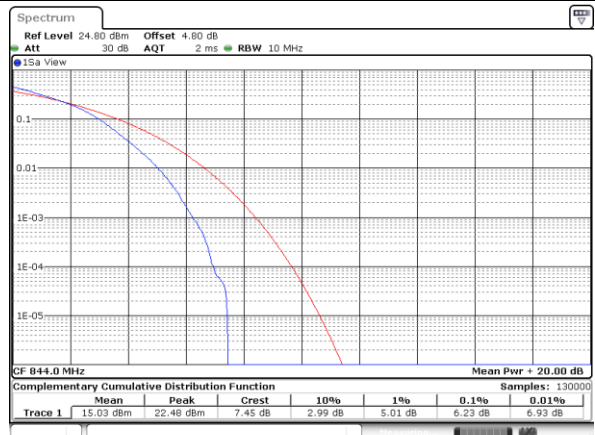
Date: 28 JAN 2020 01:56:35

Highest Channel / 1RB



Date: 28 JAN 2020 01:56:45

Highest Channel / Full RB



Date: 28 JAN 2020 01:56:54



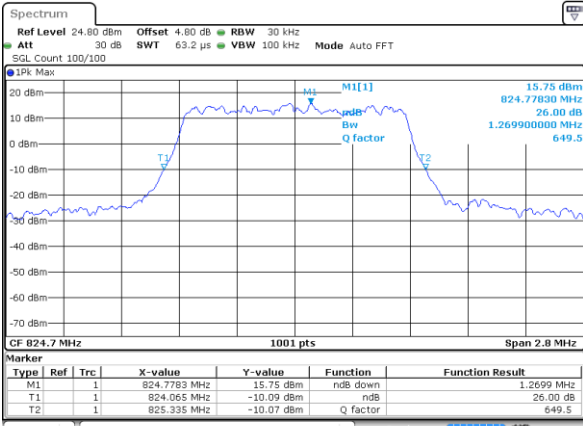
**26dB Bandwidth**

Mode	LTE Band 5 : 26dB BW(MHz)							
	1.4MHz		3MHz		5MHz		10MHz	
BW								
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.270	1.276	2.949	2.925	4.875	4.815	9.75	9.67
Middle CH	1.273	1.287	2.955	2.931	4.935	4.825	9.77	9.81
Highest CH	1.298	1.262	2.973	2.973	4.815	4.865	9.83	9.81



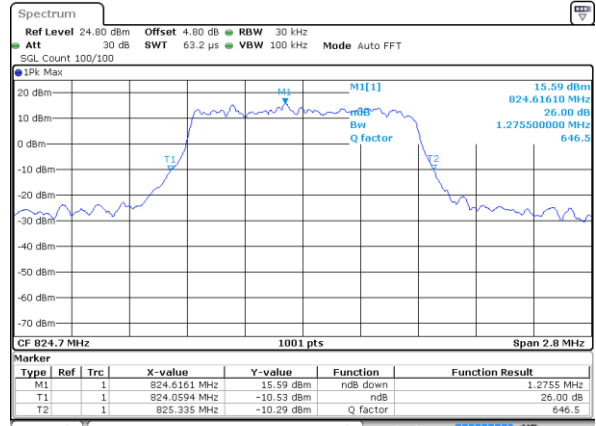
LTE Band 5

Lowest Channel / 1.4MHz / QPSK



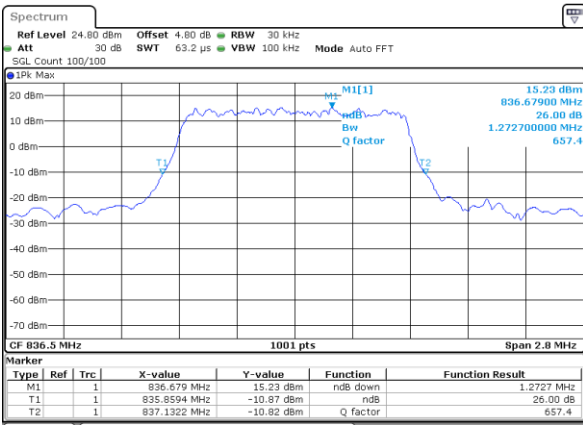
Date: 28 JAN 2020 00:14:50

Lowest Channel / 1.4MHz / 16QAM



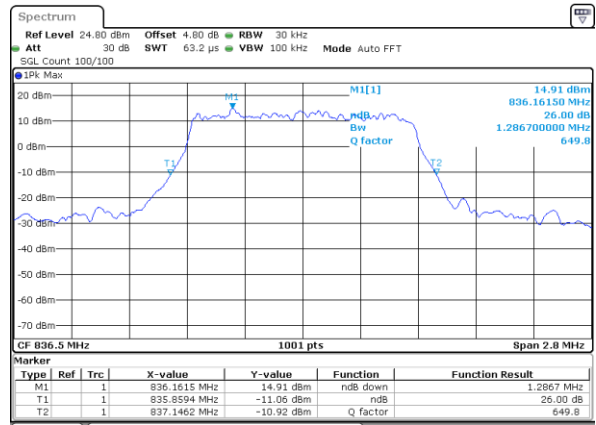
Date: 28 JAN 2020 00:14:40

Middle Channel / 1.4MHz / QPSK



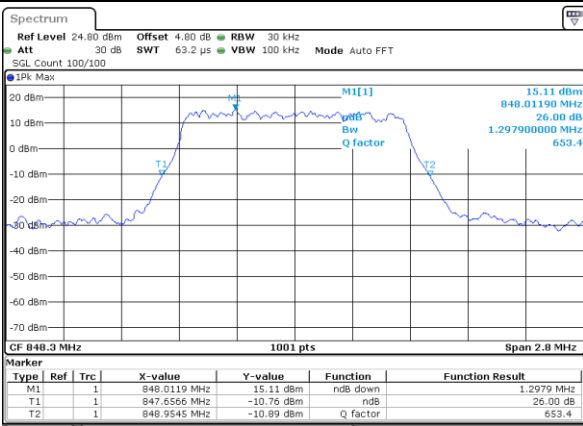
Date: 28 JAN 2020 00:25:54

Middle Channel / 1.4MHz / 16QAM



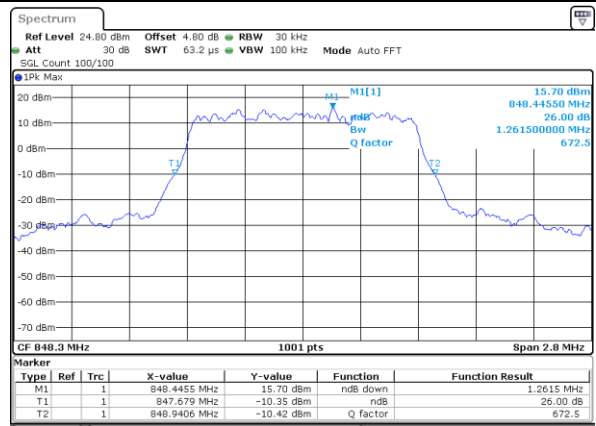
Date: 28 JAN 2020 00:26:04

Highest Channel / 1.4MHz / QPSK



Date: 28 JAN 2020 00:28:23

Highest Channel / 1.4MHz / 16QAM

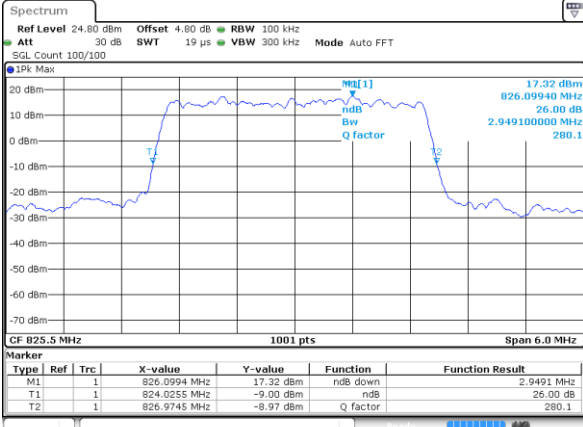


Date: 28 JAN 2020 00:28:33



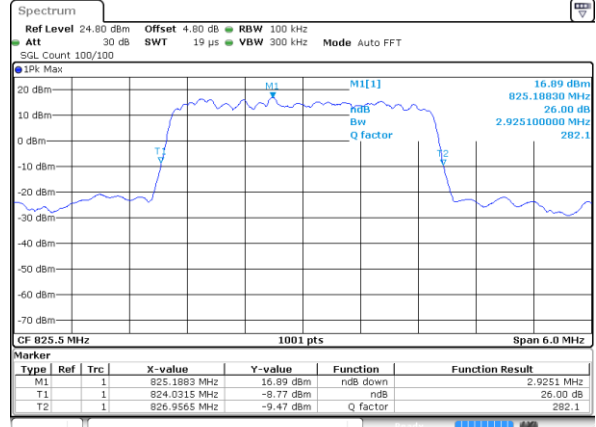
LTE Band 5

Lowest Channel / 3MHz / QPSK



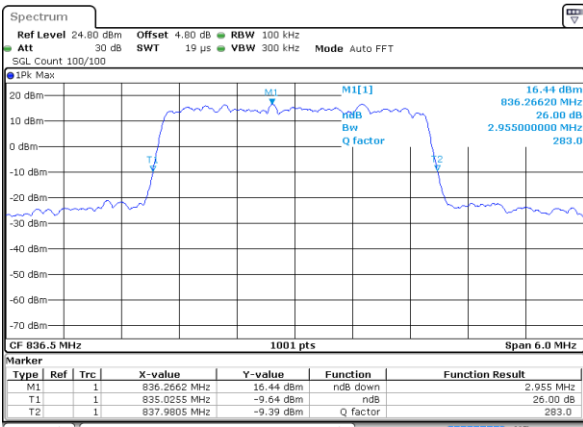
Date: 28 JAN 2020 00:37:21

Lowest Channel / 3MHz / 16QAM



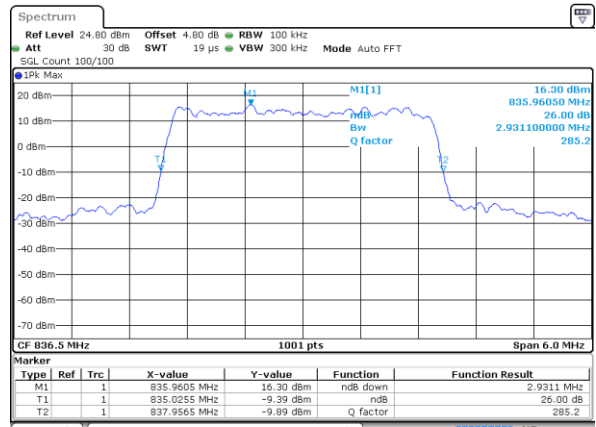
Date: 28 JAN 2020 00:37:31

Middle Channel / 3MHz / QPSK



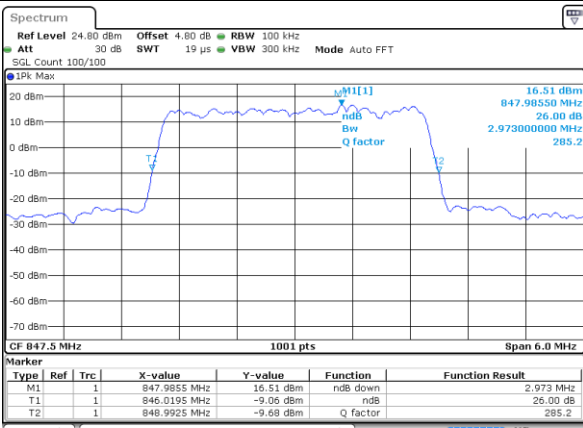
Date: 28 JAN 2020 00:46:20

Middle Channel / 3MHz / 16QAM



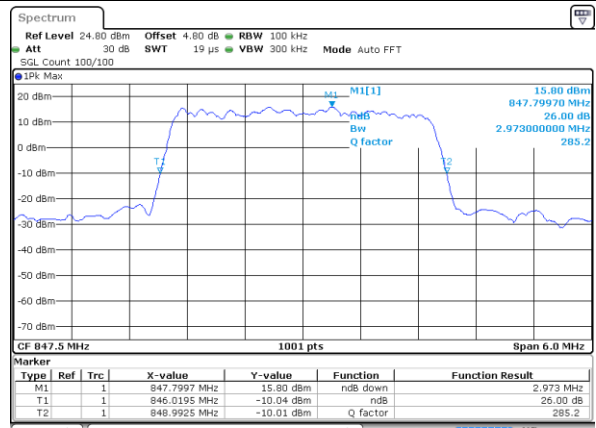
Date: 28 JAN 2020 00:46:30

Highest Channel / 3MHz / QPSK



Date: 28 JAN 2020 00:48:48

Highest Channel / 3MHz / 16QAM

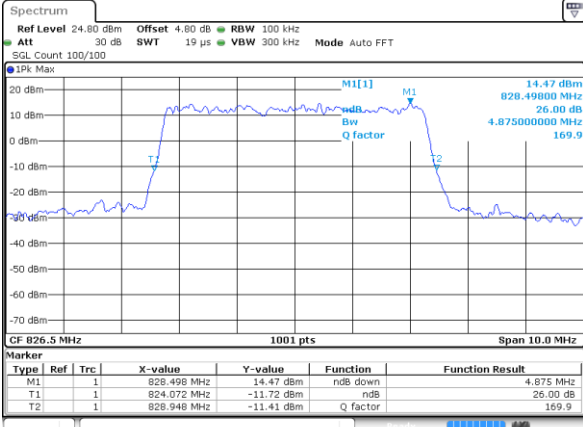


Date: 28 JAN 2020 00:48:58



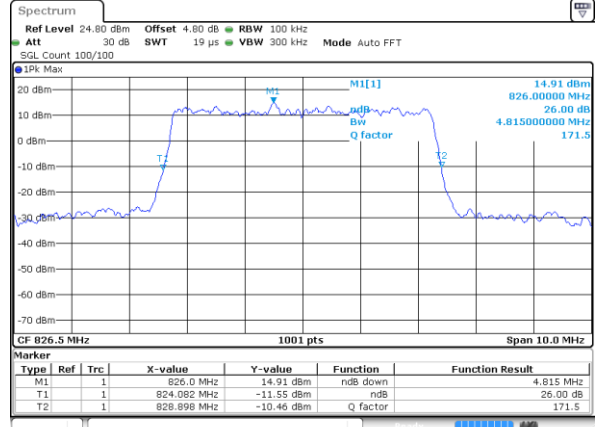
LTE Band 5

Lowest Channel / 5MHz / QPSK



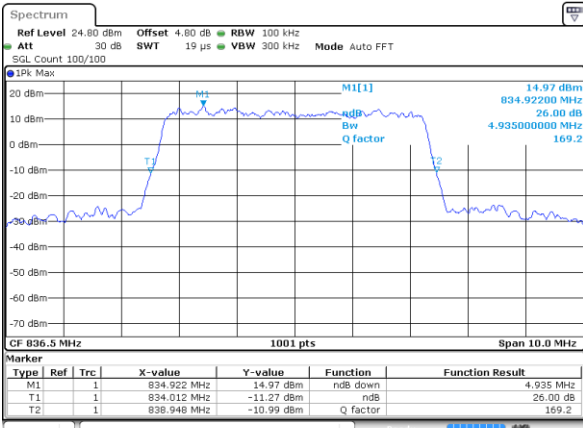
Date: 28 JAN 2020 00:57:47

Lowest Channel / 5MHz / 16QAM



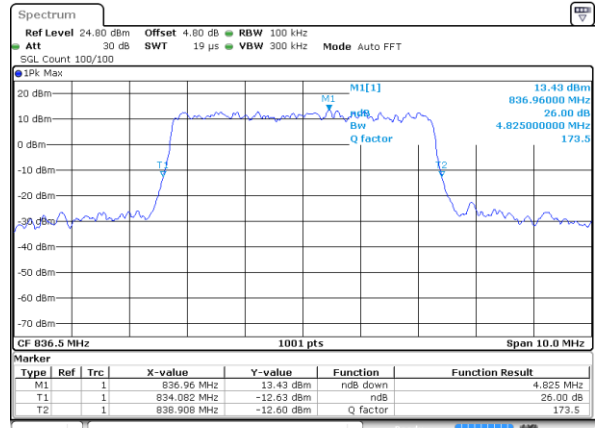
Date: 28 JAN 2020 00:57:57

Middle Channel / 5MHz / QPSK



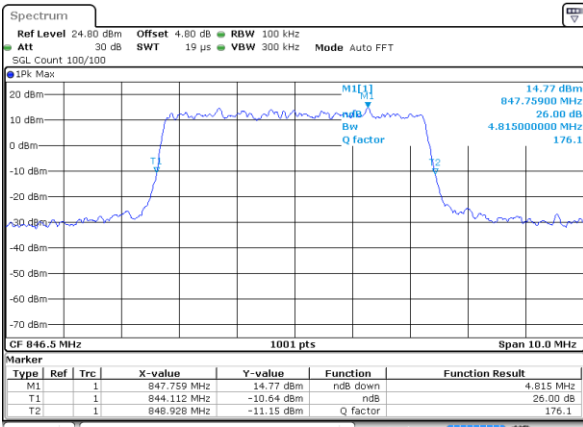
Date: 28 JAN 2020 01:06:45

Middle Channel / 5MHz / 16QAM



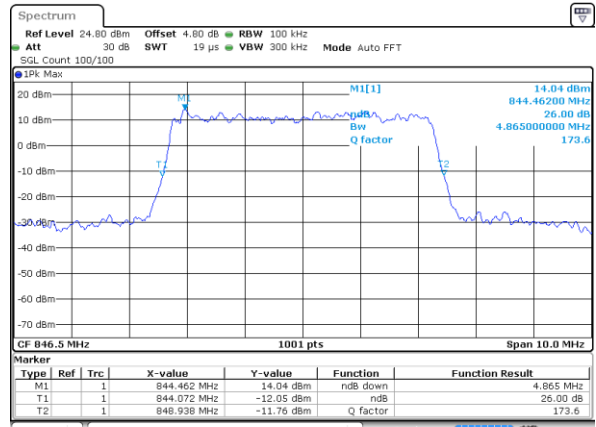
Date: 28 JAN 2020 01:06:55

Highest Channel / 5MHz / QPSK



Date: 28 JAN 2020 01:09:14

Highest Channel / 5MHz / 16QAM



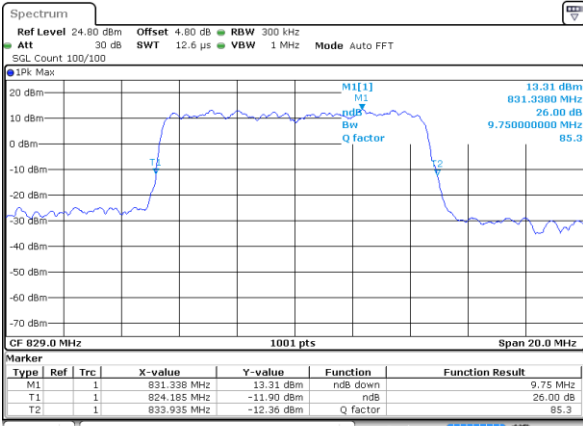
Date: 28 JAN 2020 01:09:24





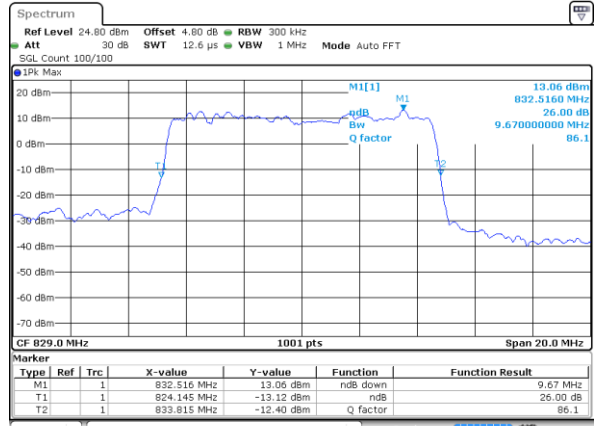
LTE Band 5

Lowest Channel / 10MHz / QPSK



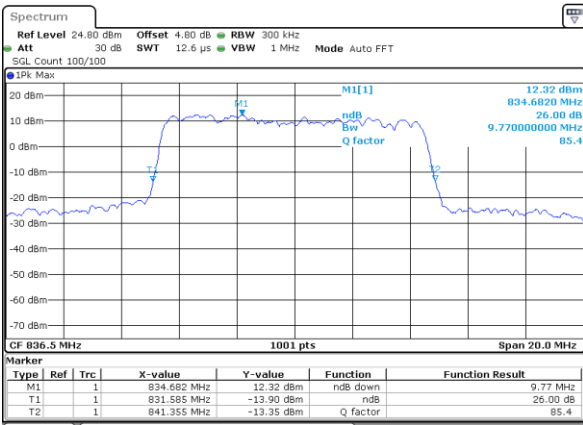
Date: 28 JAN 2020 01:18:12

Lowest Channel / 10MHz / 16QAM



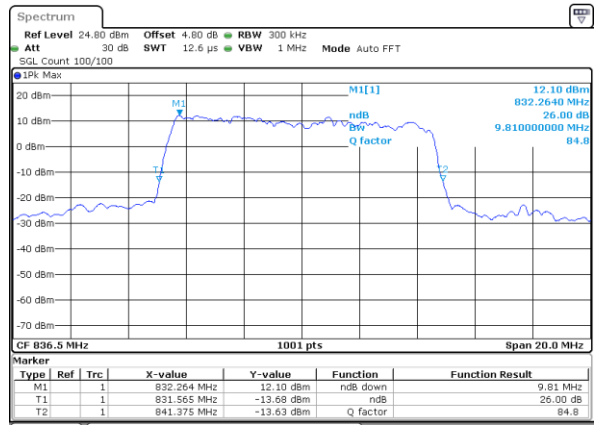
Date: 28 JAN 2020 01:18:22

Middle Channel / 10MHz / QPSK



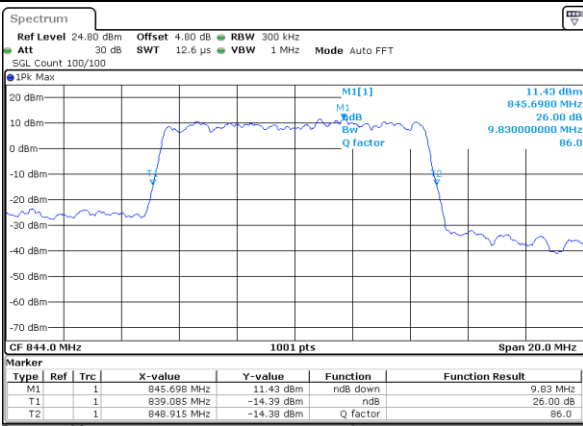
Date: 28 JAN 2020 01:27:10

Middle Channel / 10MHz / 16QAM



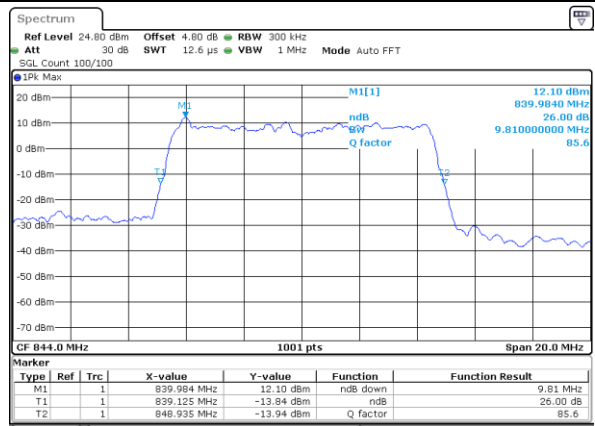
Date: 28 JAN 2020 01:27:20

Highest Channel / 10MHz / QPSK



Date: 28 JAN 2020 01:29:39

Highest Channel / 10MHz / 16QAM



Date: 28 JAN 2020 01:29:49



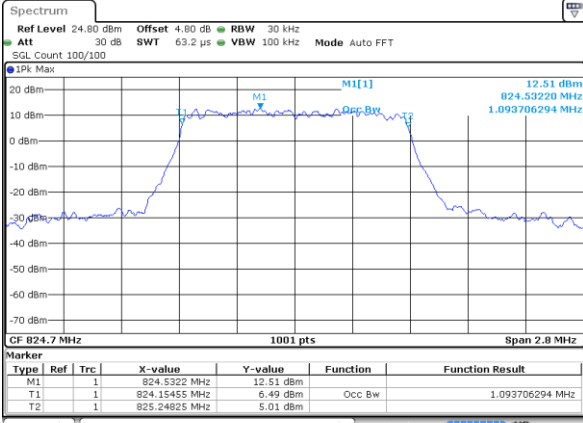
### Occupied Bandwidth

Mode	LTE Band 5 : 99%OBW(MHz)							
	1.4MHz		3MHz		5MHz		10MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.094	1.097	2.709	2.715	4.486	4.486	9.051	9.051
Middle CH	1.088	1.094	2.703	2.721	4.476	4.496	9.031	8.971
Highest CH	1.088	1.094	2.715	2.709	4.505	4.496	9.091	9.011



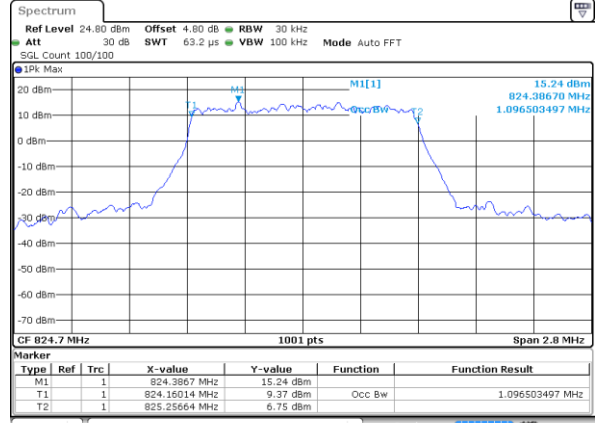
LTE Band 5

Lowest Channel / 1.4MHz / QPSK



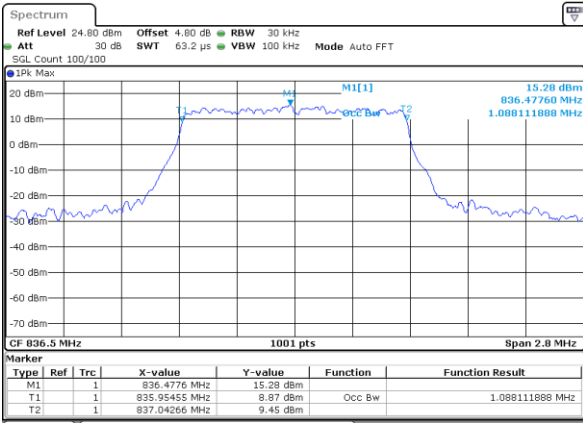
Date: 28 JAN 2020 02:51:48

Lowest Channel / 1.4MHz / 16QAM



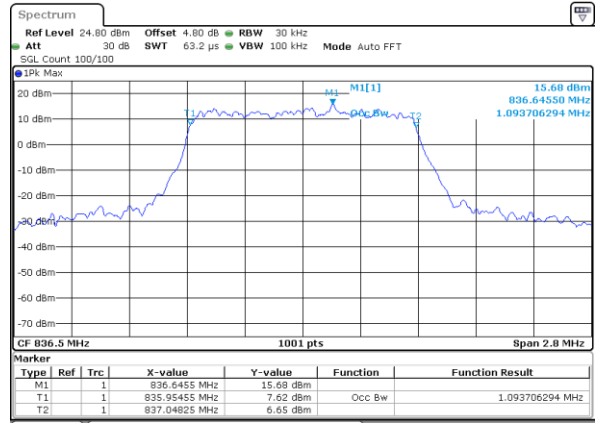
Date: 28 JAN 2020 00:14:30

Middle Channel / 1.4MHz / QPSK



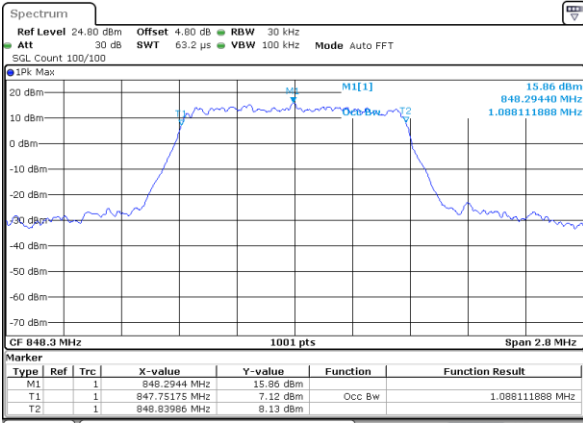
Date: 28 JAN 2020 00:25:34

Middle Channel / 1.4MHz / 16QAM



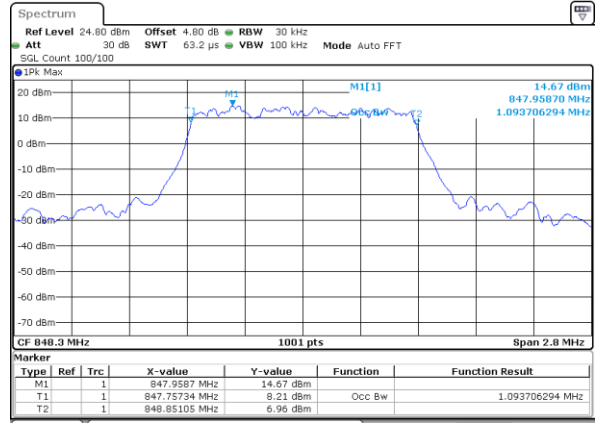
Date: 28 JAN 2020 00:25:44

Highest Channel / 1.4MHz / QPSK



Date: 28 JAN 2020 00:28:03

Highest Channel / 1.4MHz / 16QAM



Date: 28 JAN 2020 00:28:13