

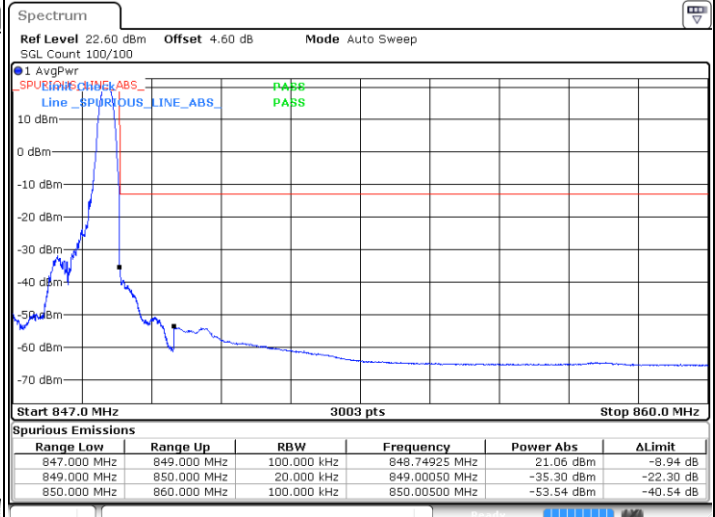


LTE Band 5 / 1.4MHz / QPSK

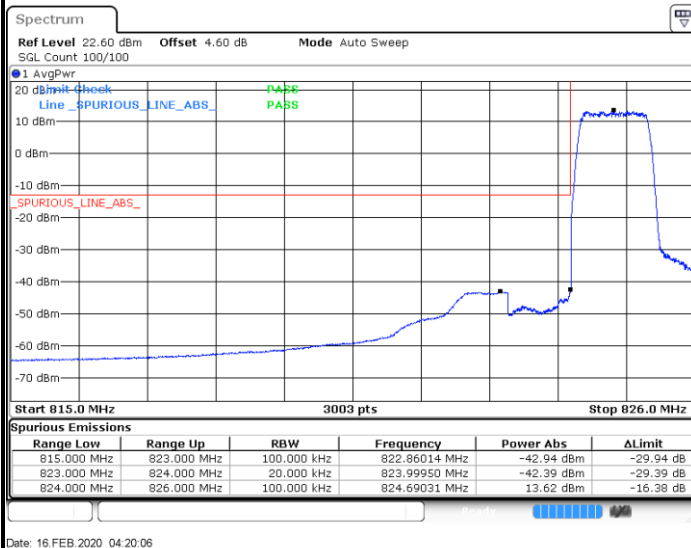
Lowest Band Edge / 1RB



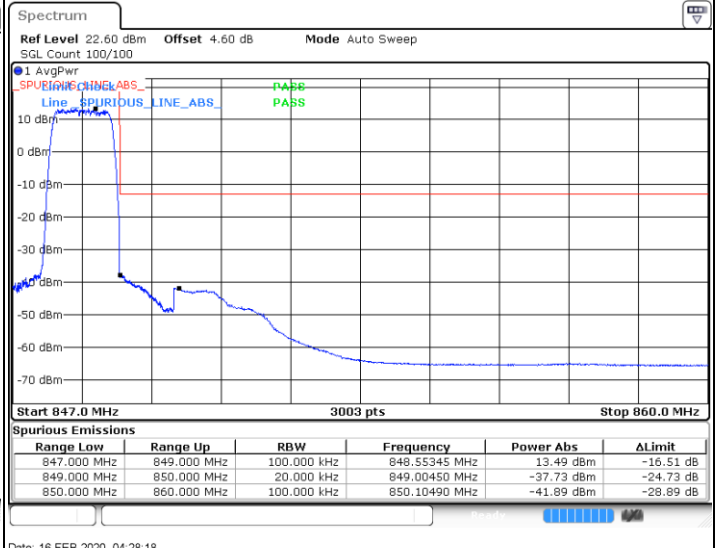
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



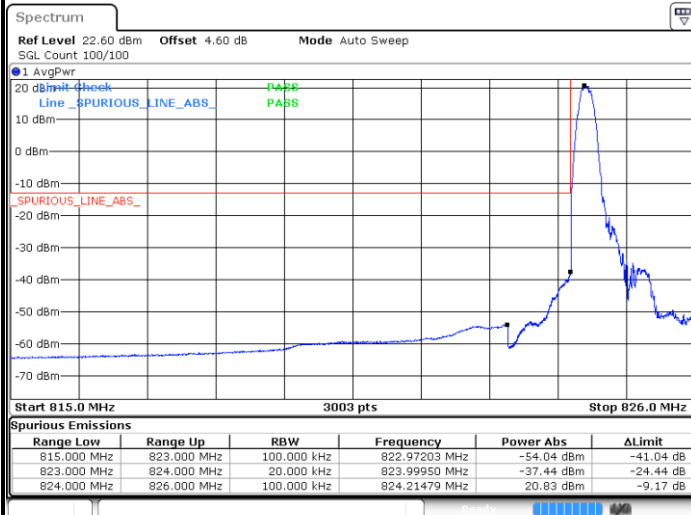
Highest Band Edge / Full RB



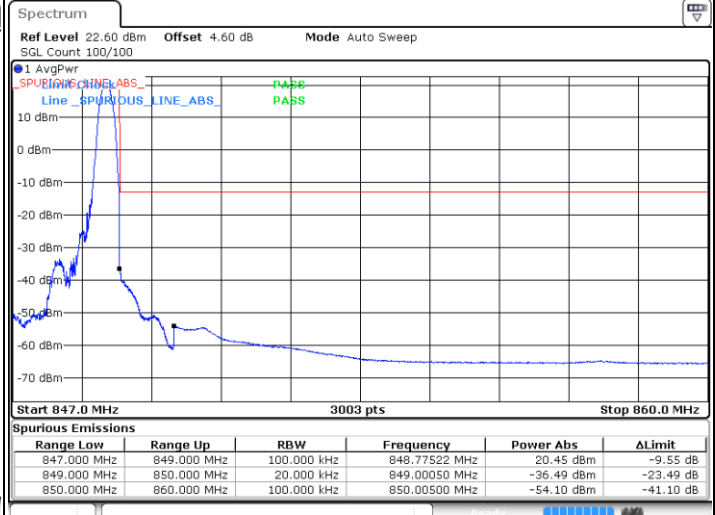


LTE Band 5 / 1.4MHz / 16QAM

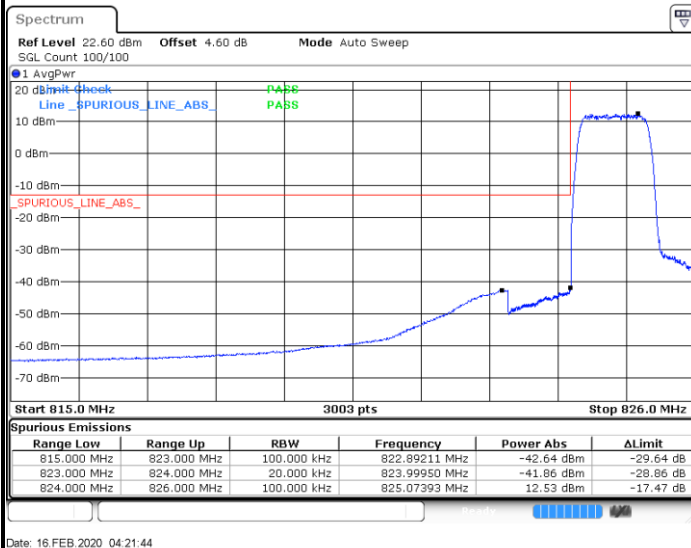
Lowest Band Edge / 1 RB



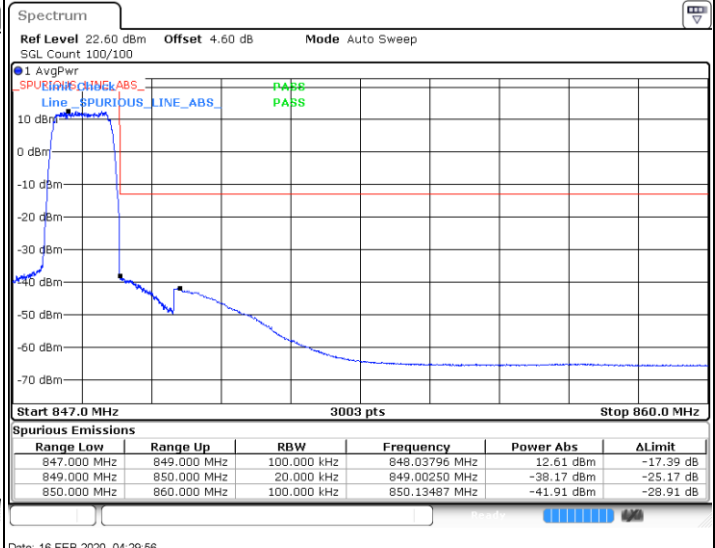
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



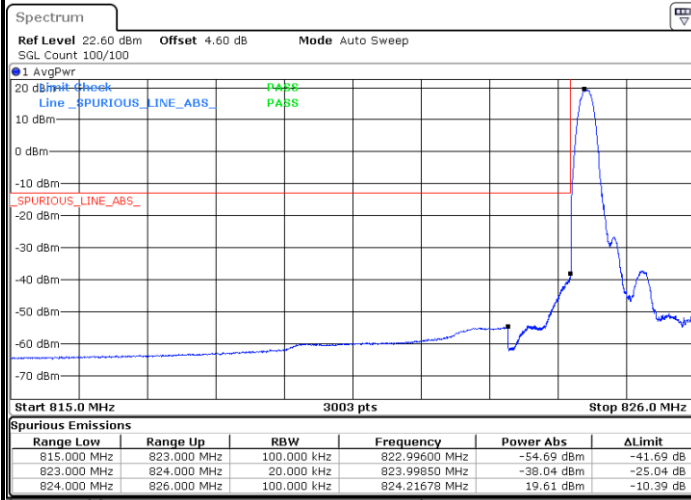
Highest Band Edge / Full RB





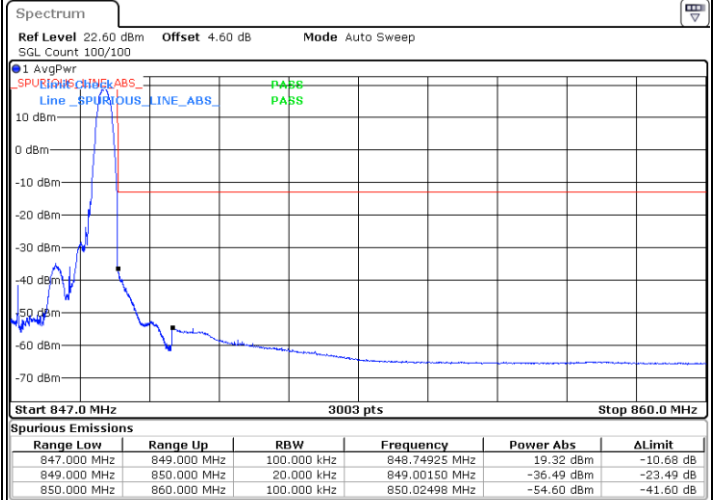
LTE Band 5 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



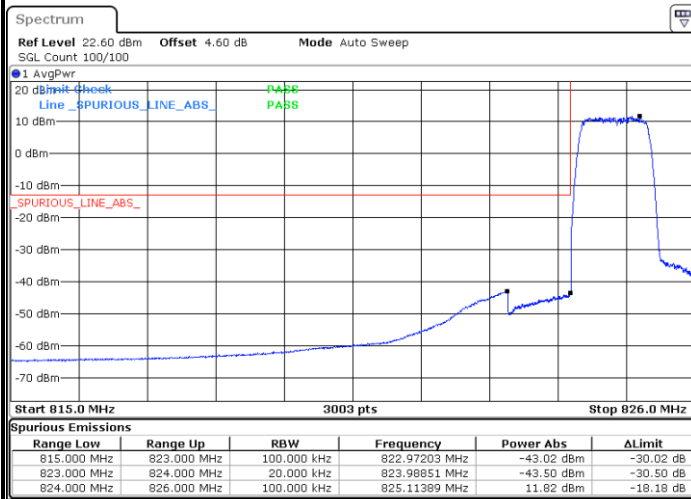
Date: 16.FEB.2020 05:37:53

Highest Band Edge / 1 RB



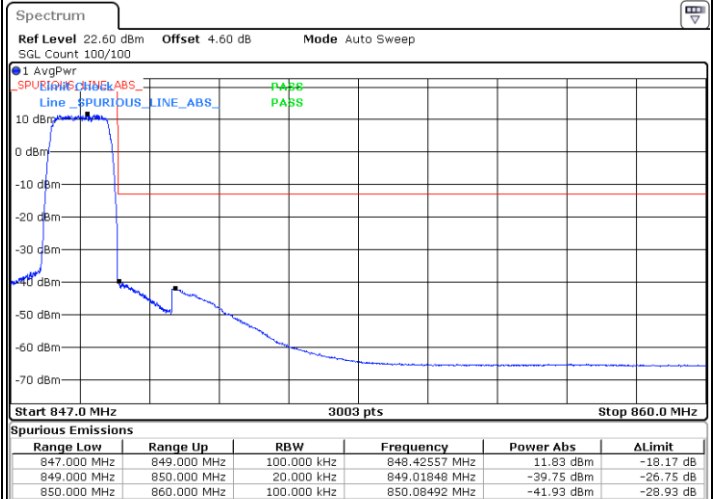
Date: 16.FEB.2020 05:44:19

Lowest Band Edge / Full RB



Date: 16.FEB.2020 06:26:00

Highest Band Edge / Full RB

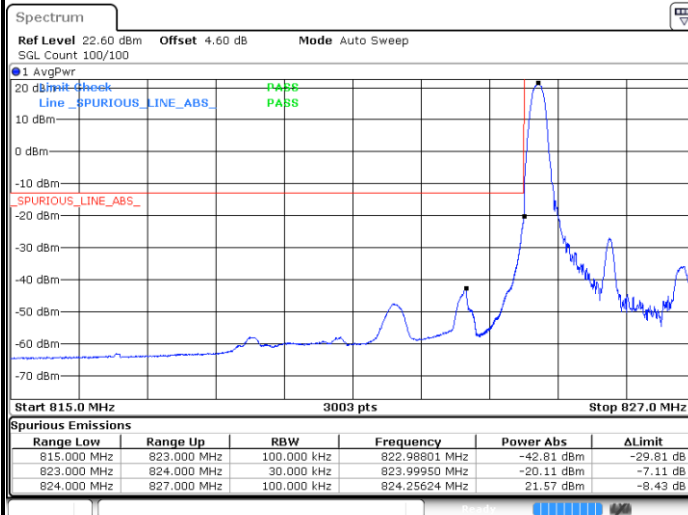


Date: 16.FEB.2020 05:41:59

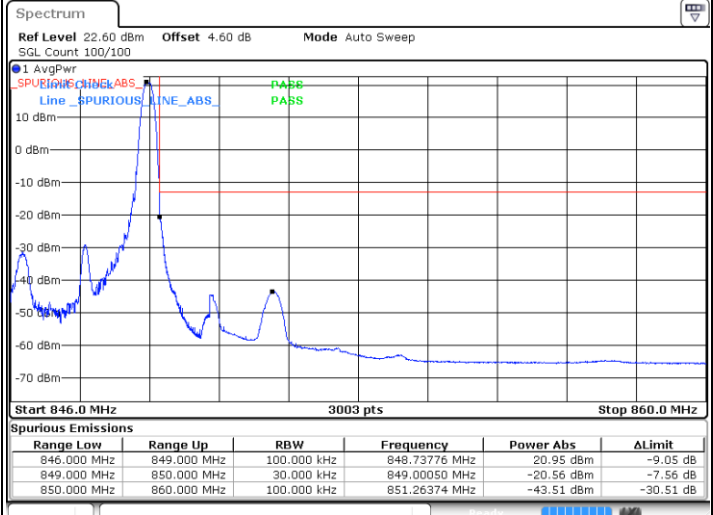


LTE Band 5 / 3MHz / QPSK

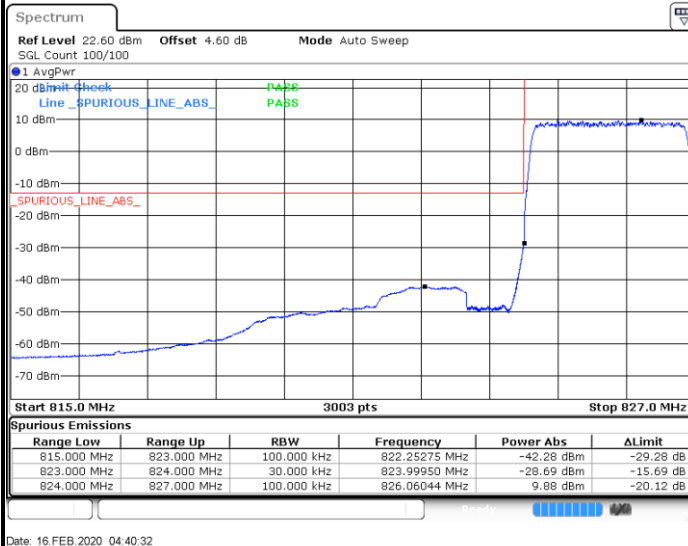
Lowest Band Edge / 1RB



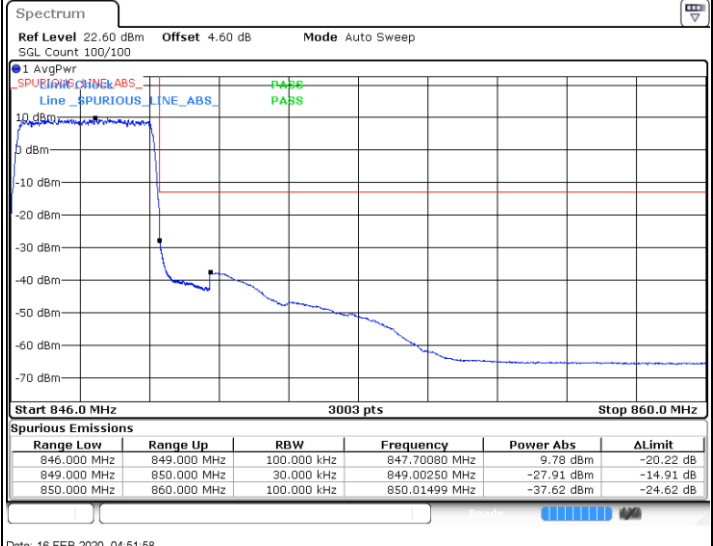
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



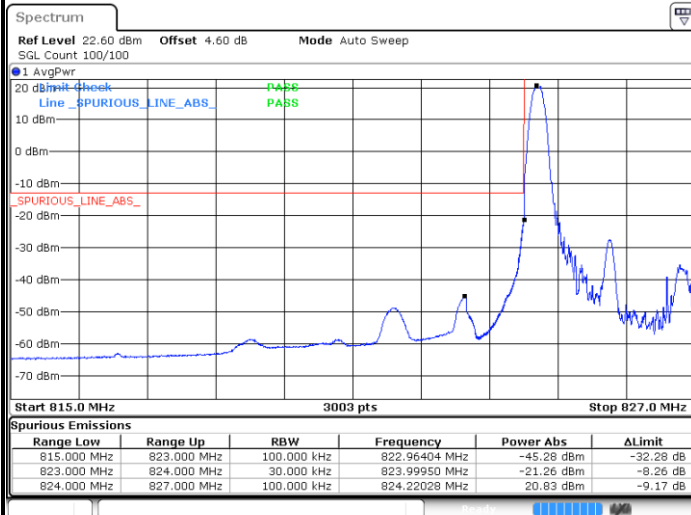
Highest Band Edge / Full RB



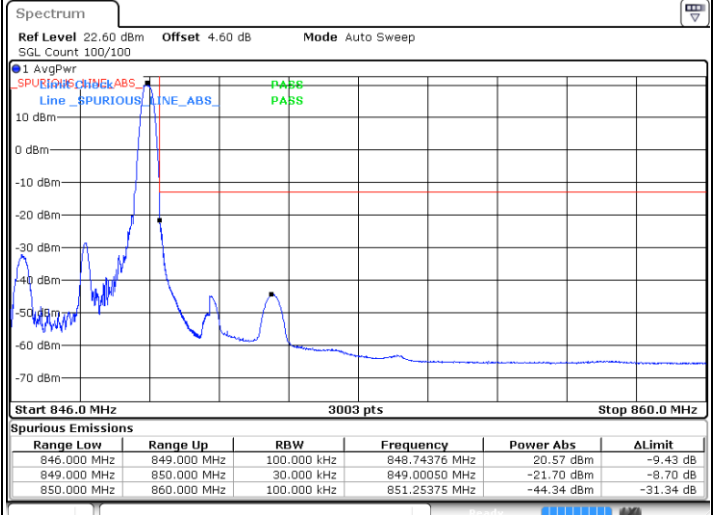


LTE Band 5 / 3MHz / 16QAM

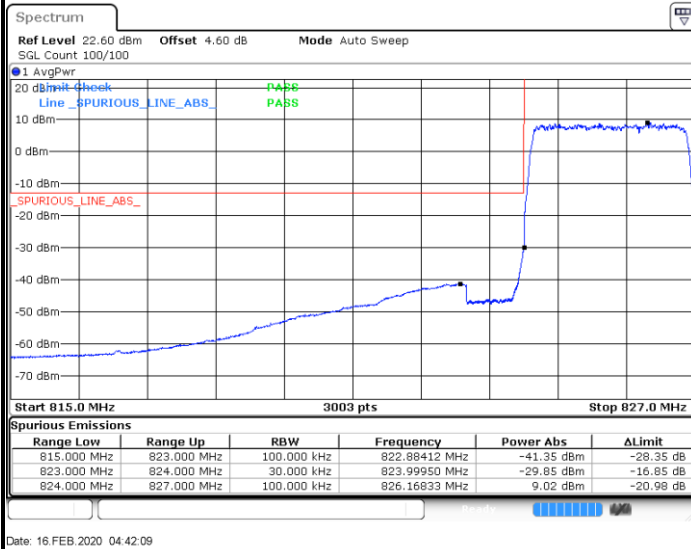
Lowest Band Edge / 1 RB



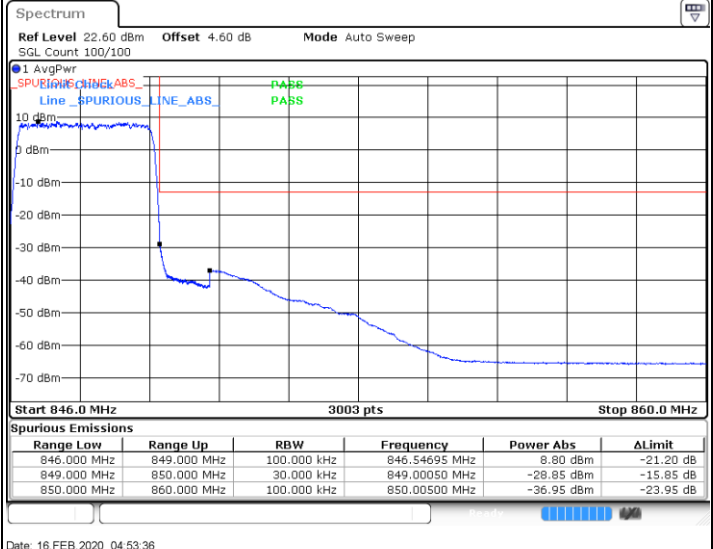
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



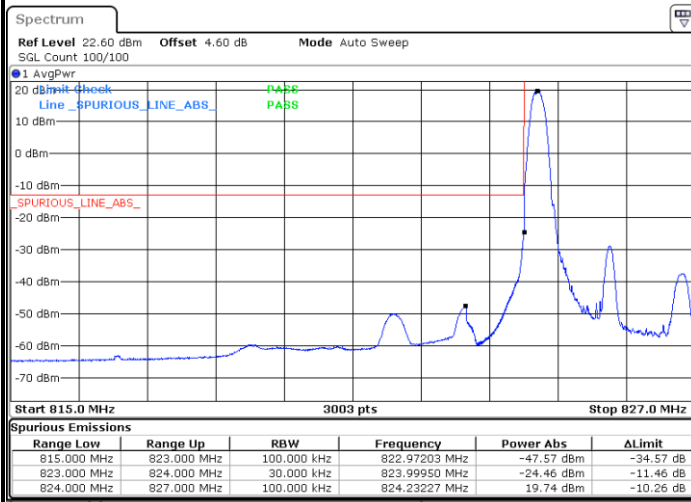
Highest Band Edge / Full RB



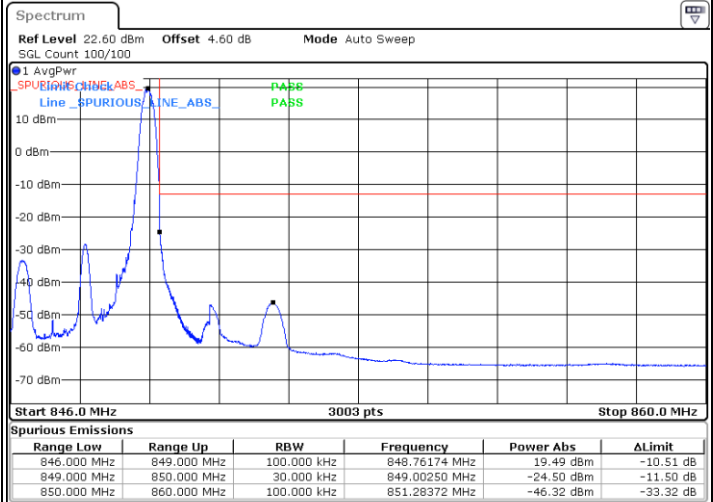


LTE Band 5 / 3MHz / 64QAM

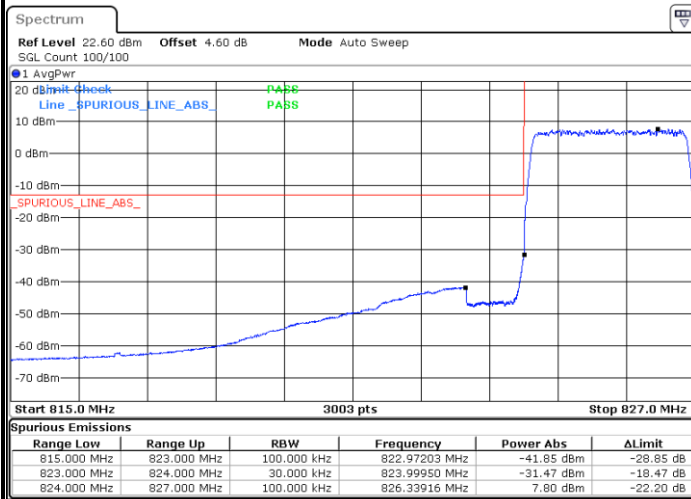
Lowest Band Edge / 1 RB



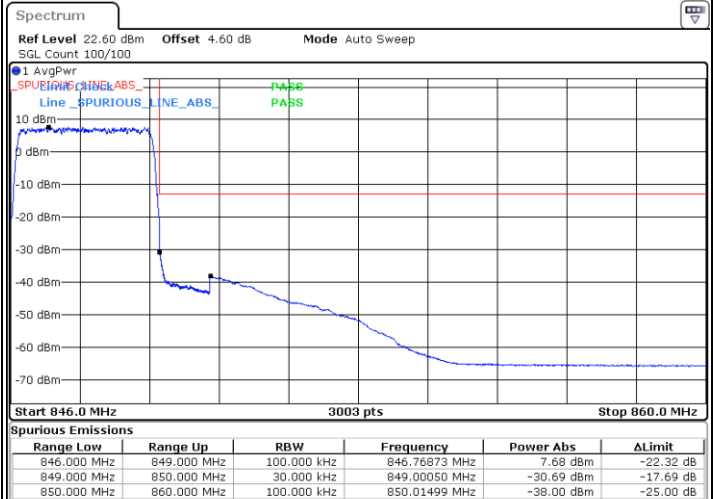
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



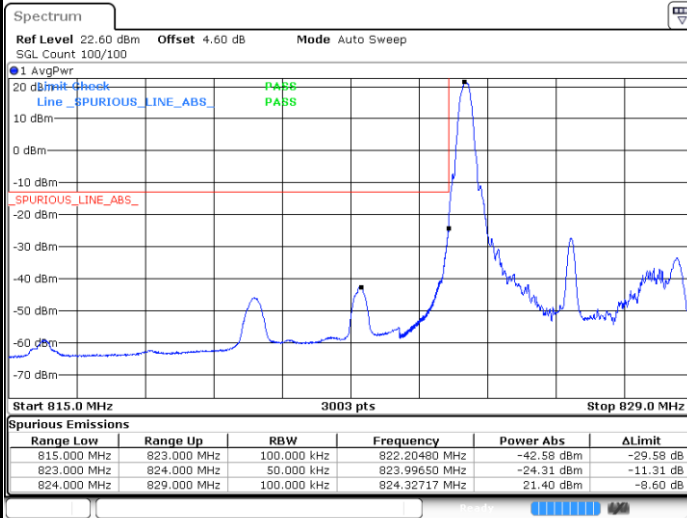
Highest Band Edge / Full RB





LTE Band 5 / 5MHz / QPSK

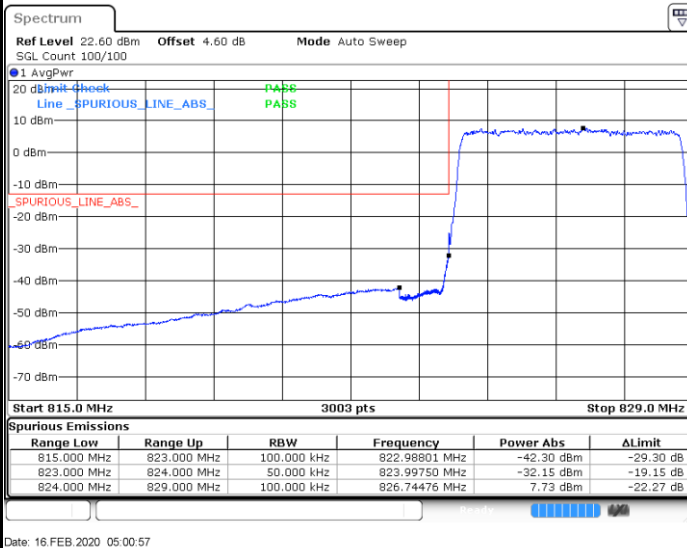
Lowest Band Edge / 1 RB



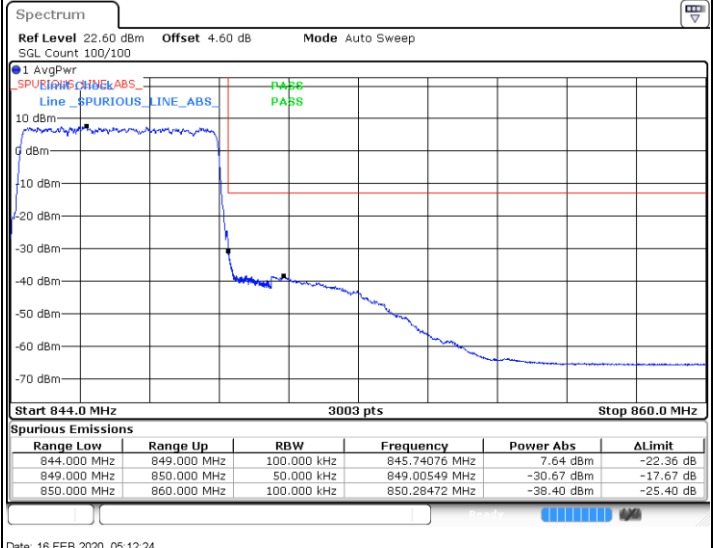
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



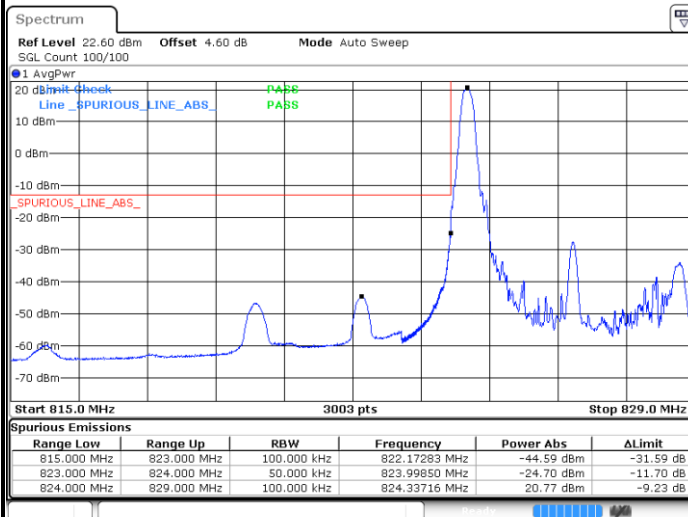
Highest Band Edge / Full RB



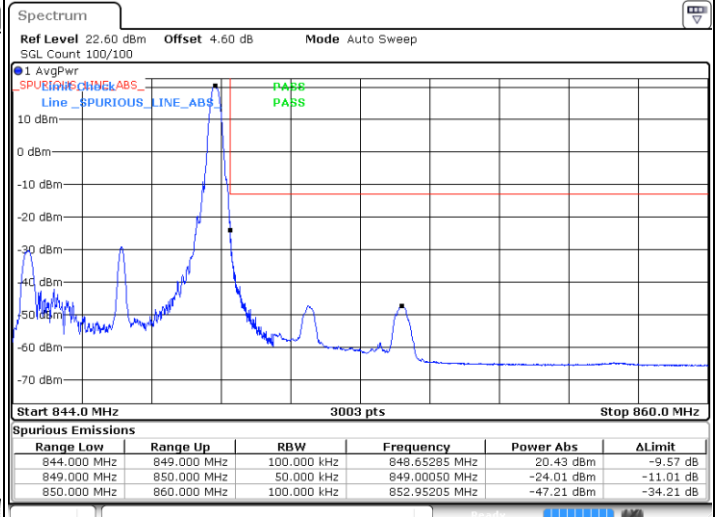


LTE Band 5 / 5MHz / 16QAM

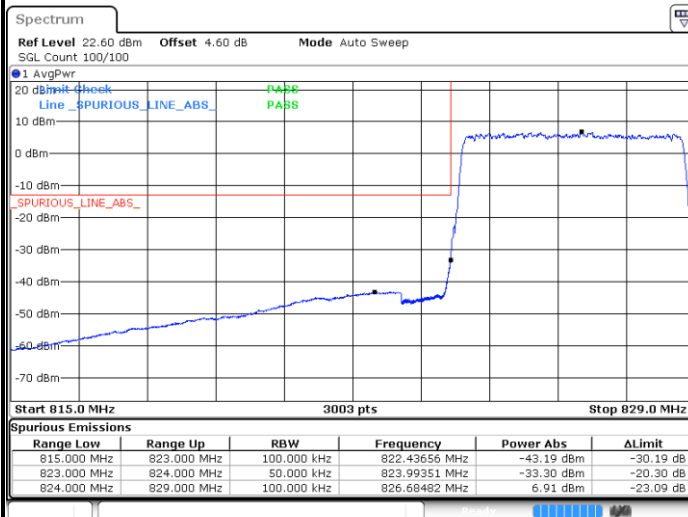
Lowest Band Edge / 1RB



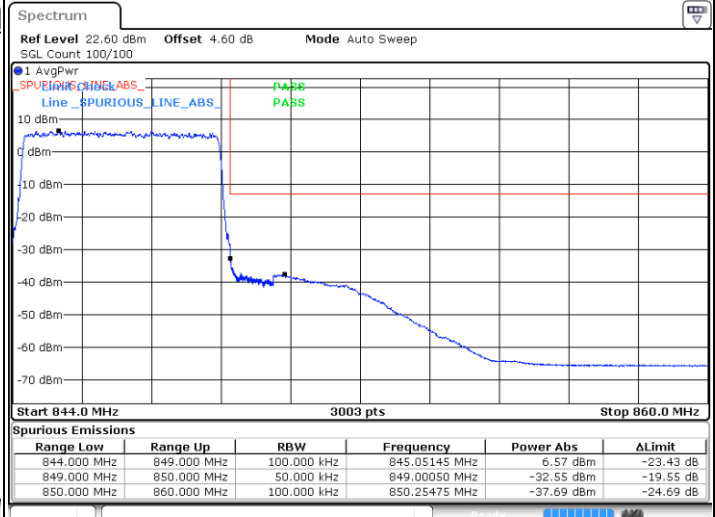
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



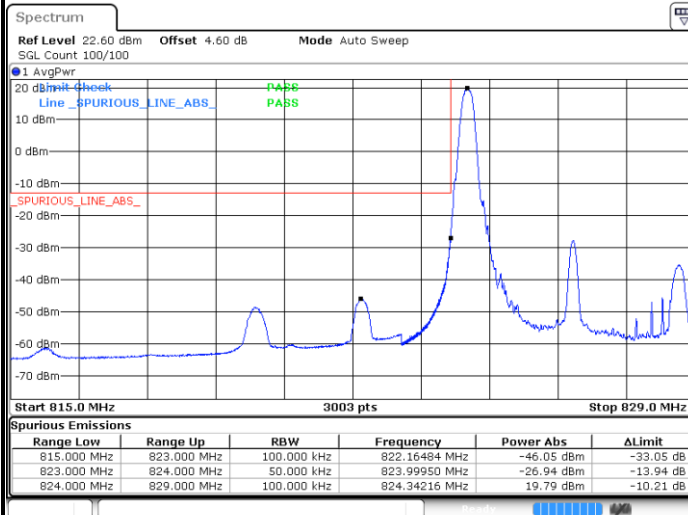
Highest Band Edge / Full RB



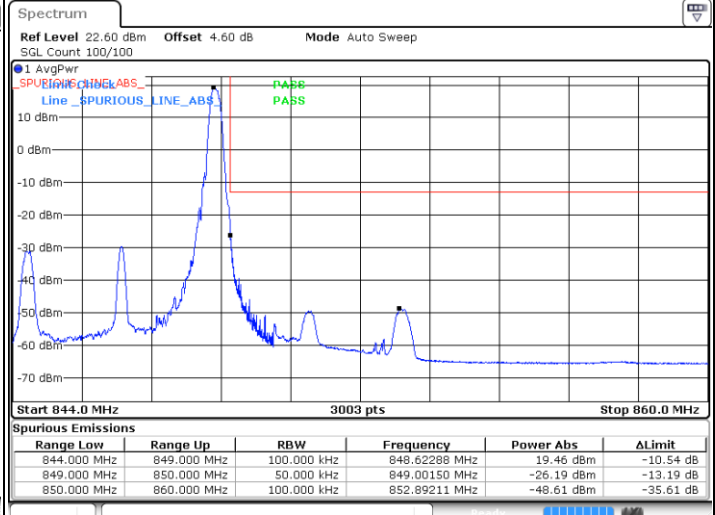


LTE Band 5 / 5MHz / 64QAM

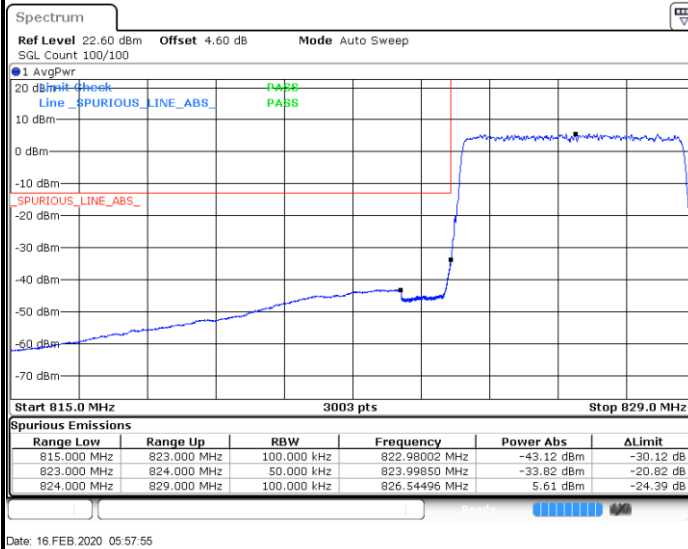
Lowest Band Edge / 1RB



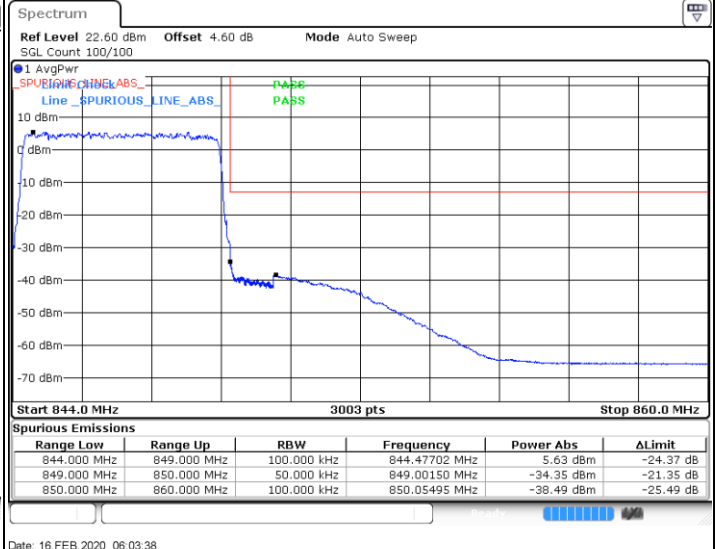
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



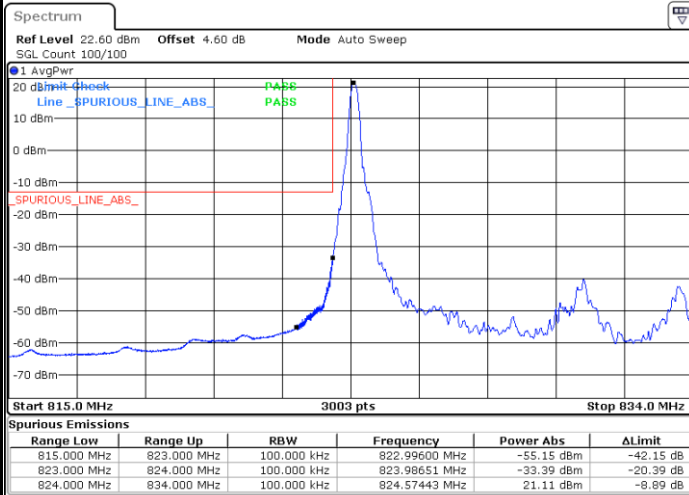
Highest Band Edge / Full RB



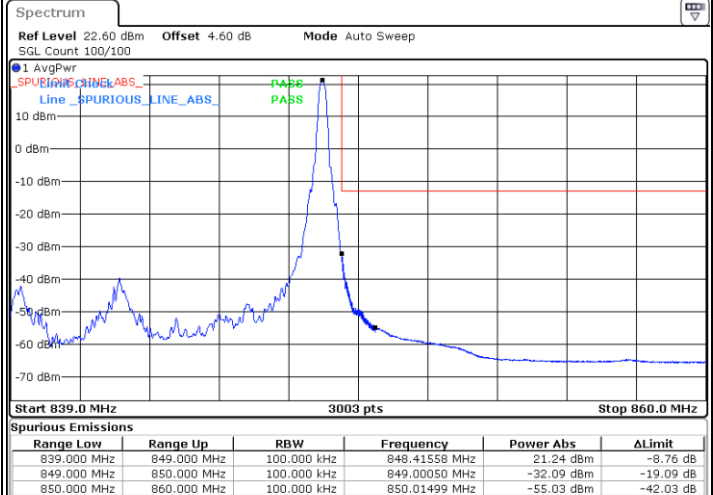


LTE Band 5 / 10MHz / QPSK

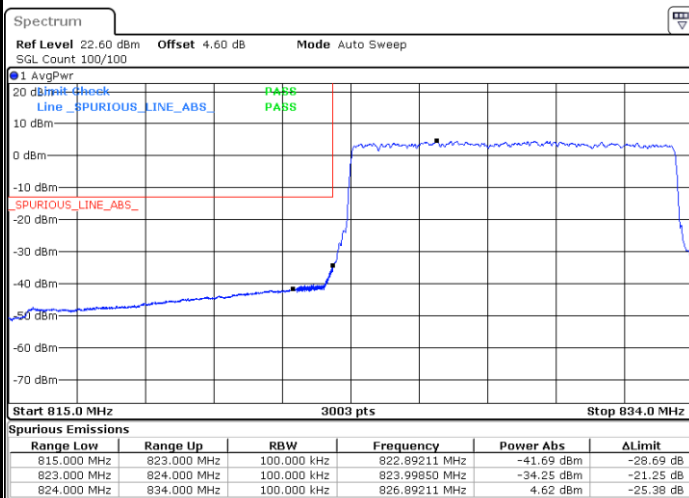
Lowest Band Edge / 1 RB



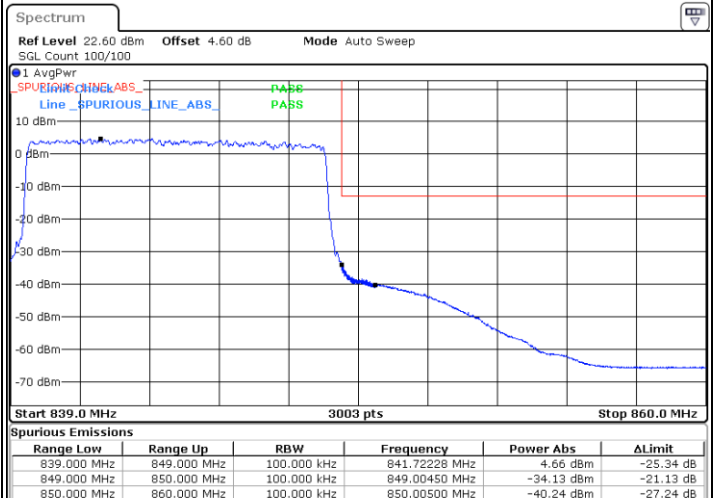
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



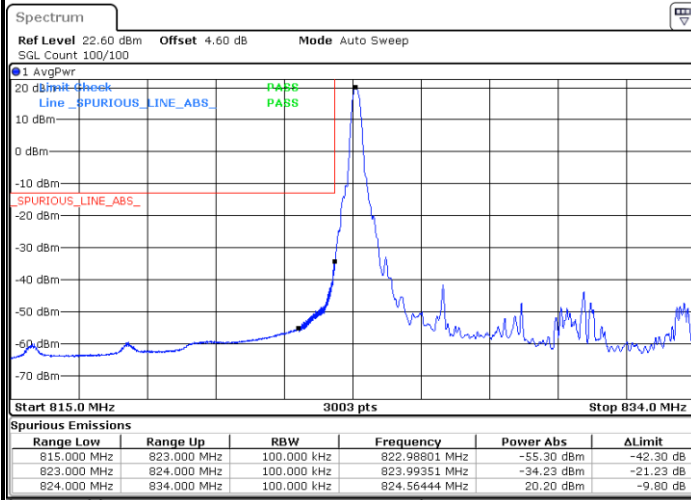
Highest Band Edge / Full RB



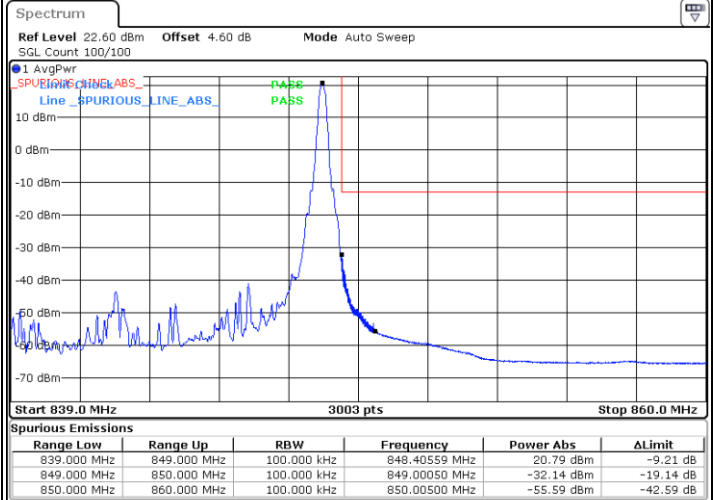


LTE Band 5 / 10MHz / 16QAM

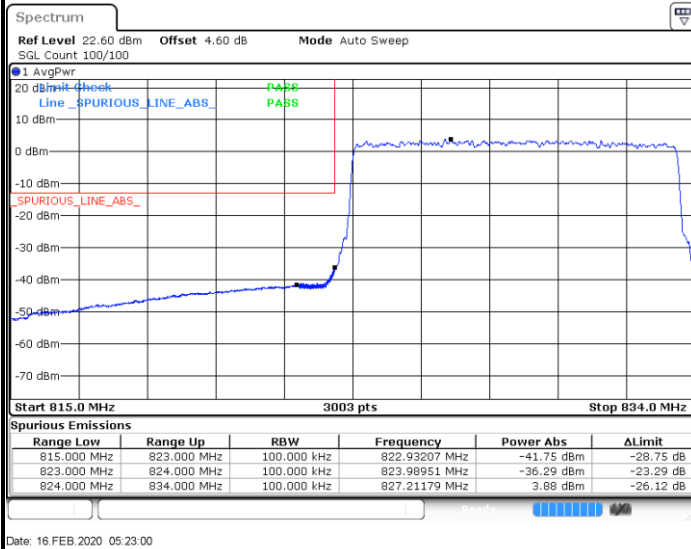
Lowest Band Edge / 1 RB



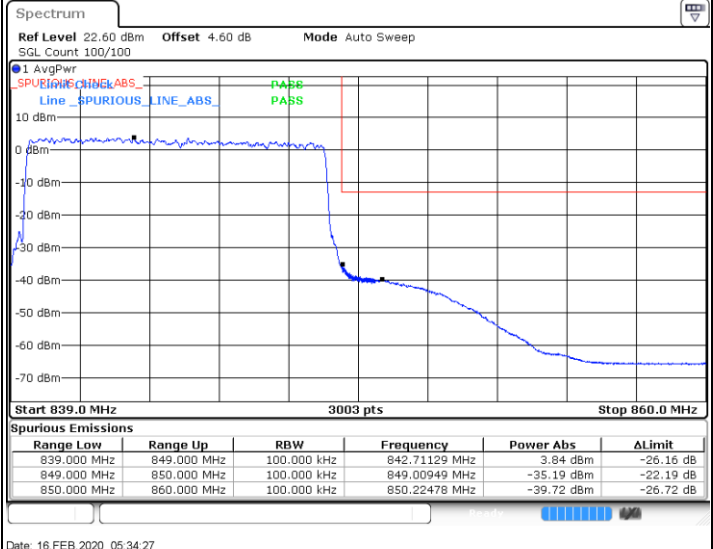
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



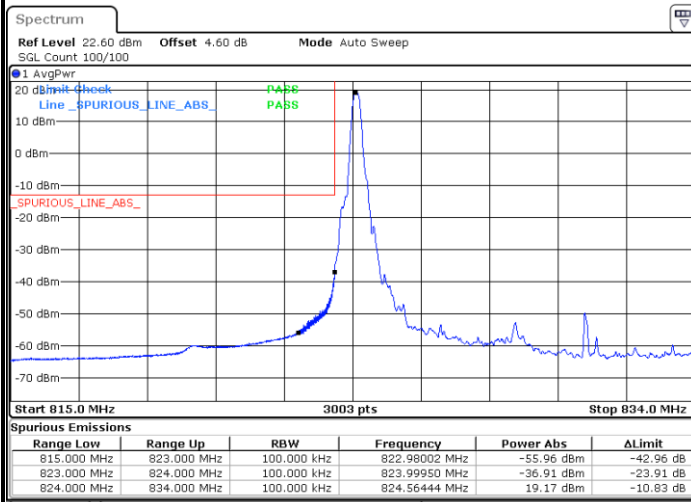
Highest Band Edge / Full RB



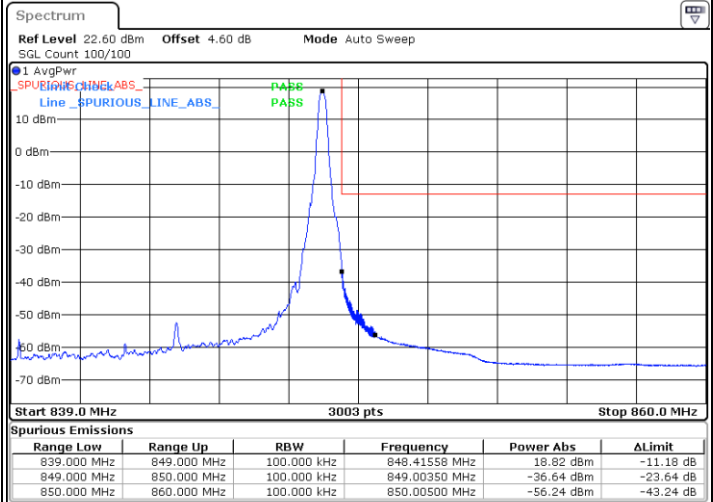


LTE Band 5 / 10MHz / 64QAM

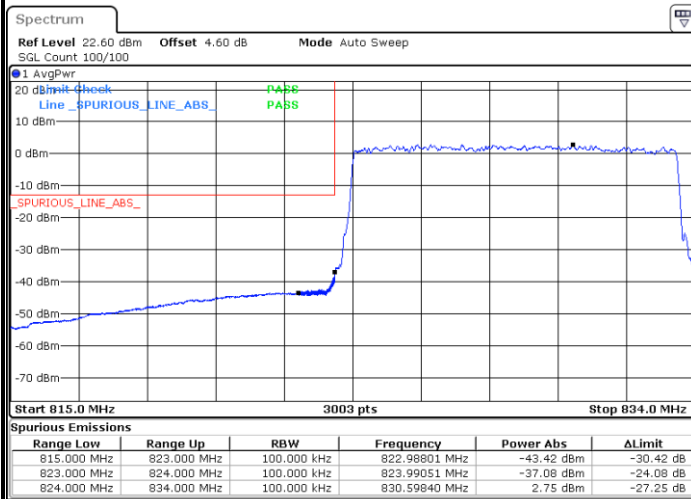
Lowest Band Edge / 1 RB



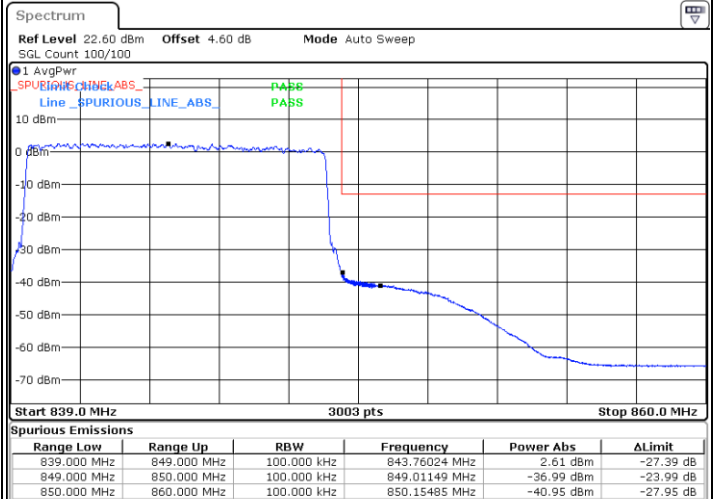
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB



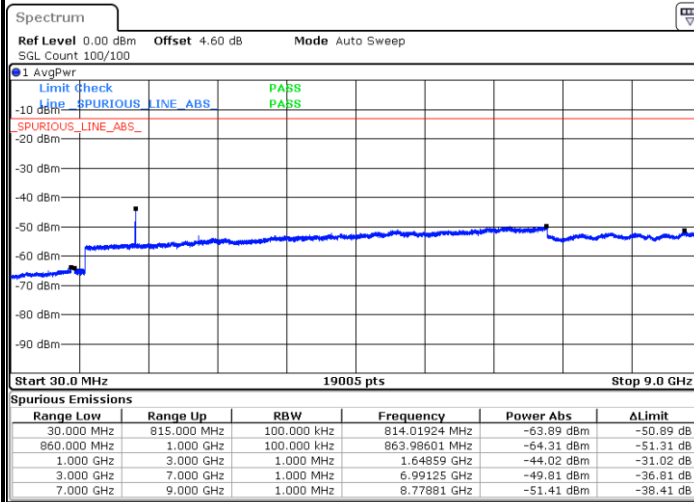


Conducted Spurious Emission



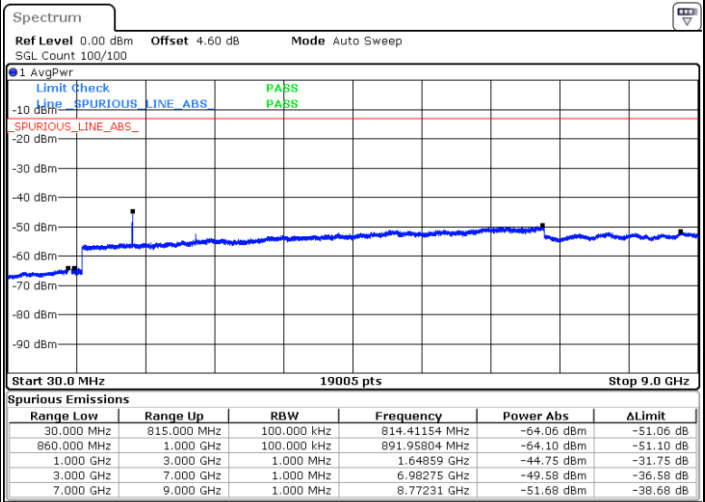
LTE Band 5 / 1.4MHz

Lowest Channel / QPSK



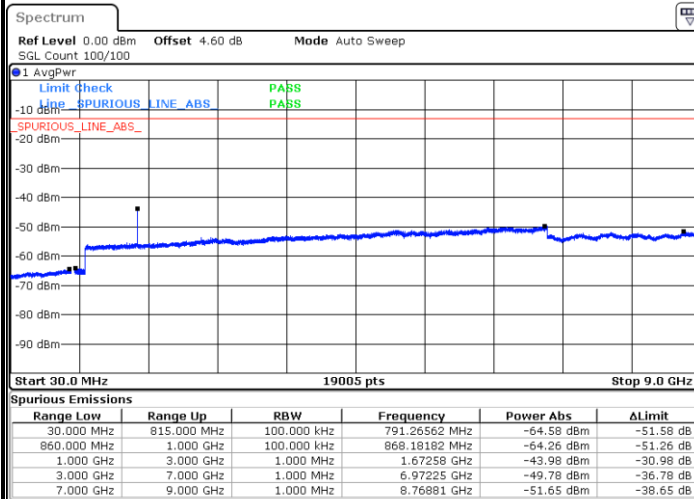
Date: 16 FEB 2020 04:22:37

Lowest Channel / 16QAM



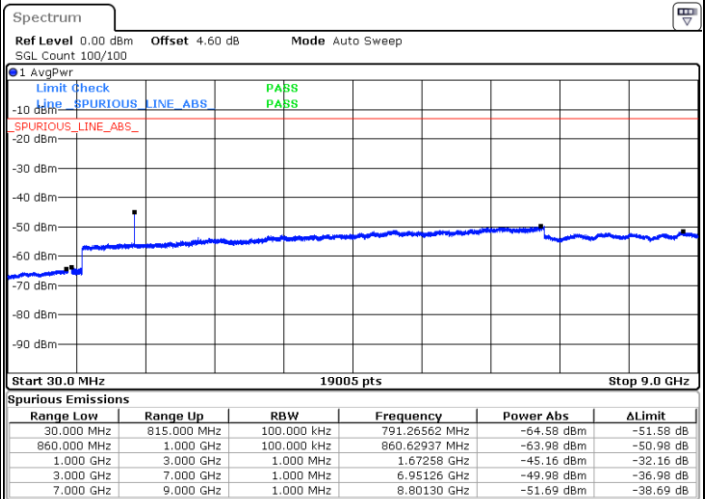
Date: 16 FEB 2020 04:23:31

Middle Channel / QPSK



Date: 16 FEB 2020 04:25:06

Middle Channel / 16QAM

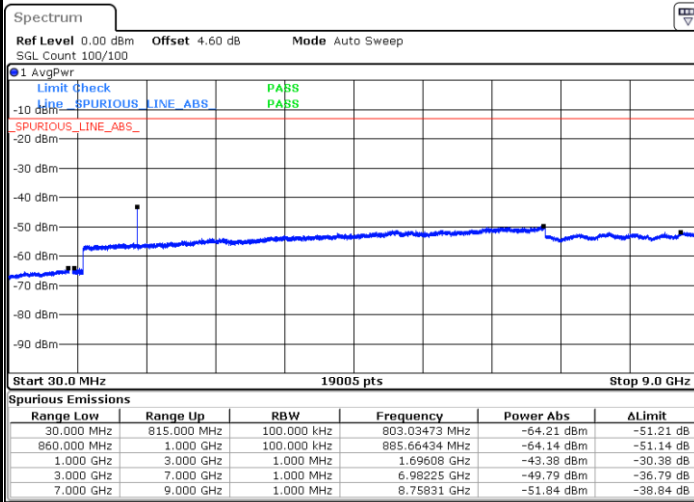


Date: 16 FEB 2020 04:26:00



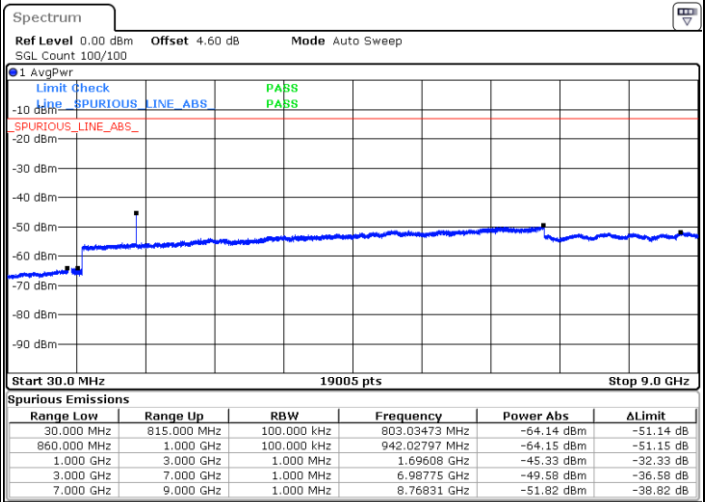
LTE Band 5 / 1.4MHz

Highest Channel / QPSK



Date: 16 FEB 2020 04:34:04

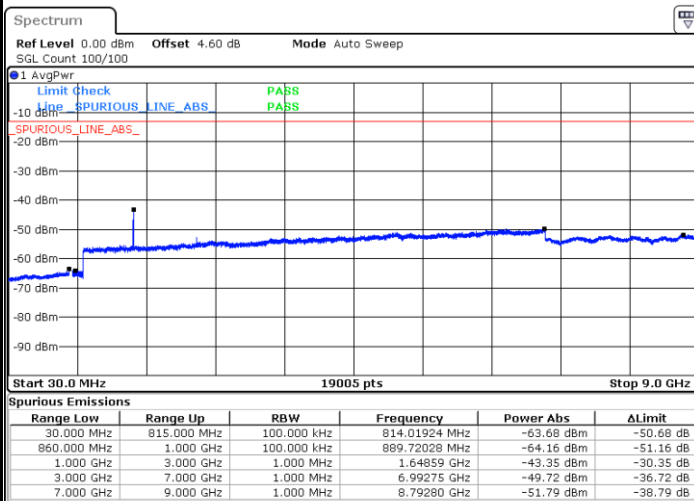
Highest Channel / 16QAM



Date: 16 FEB 2020 04:34:58

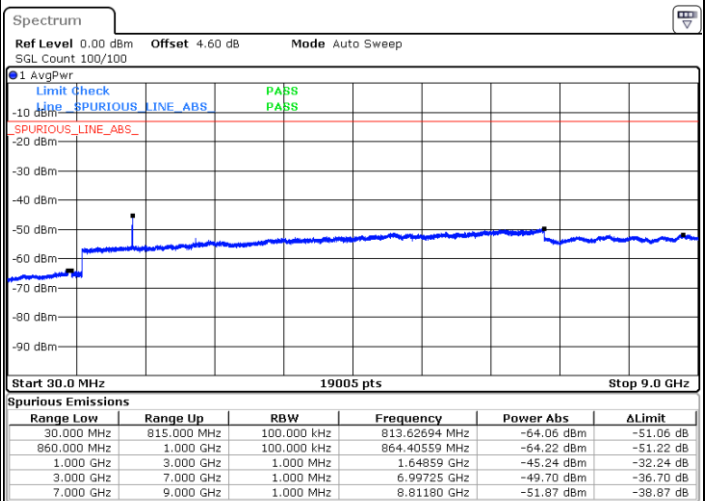
LTE Band 5 / 3MHz

Lowest Channel / QPSK



Date: 16 FEB 2020 04:43:02

Lowest Channel / 16QAM

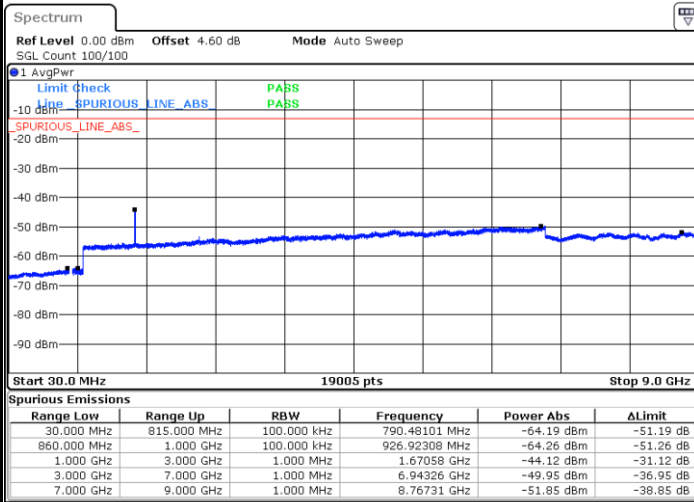


Date: 16 FEB 2020 04:43:57



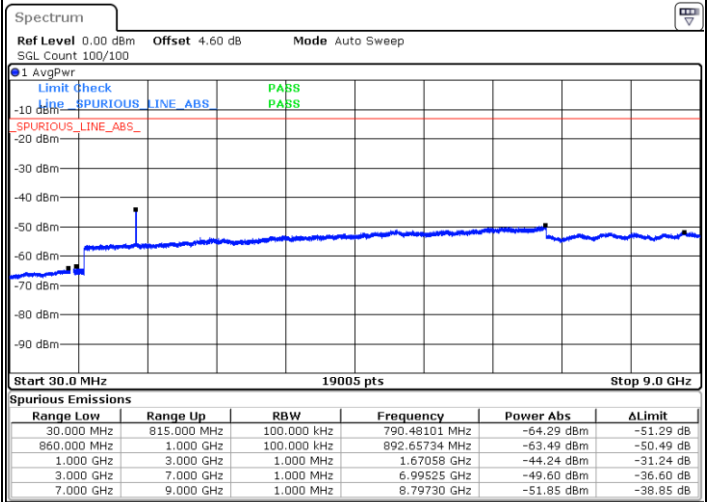
LTE Band 5 / 3MHz

Middle Channel / QPSK



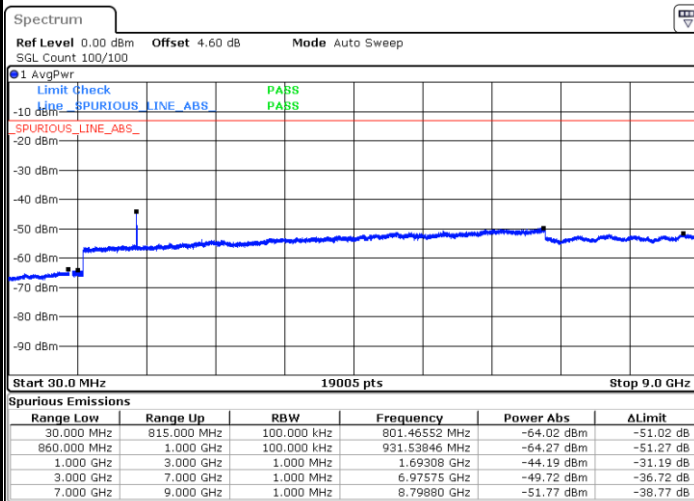
Date: 16 FEB 2020 04:45:31

Middle Channel / 16QAM



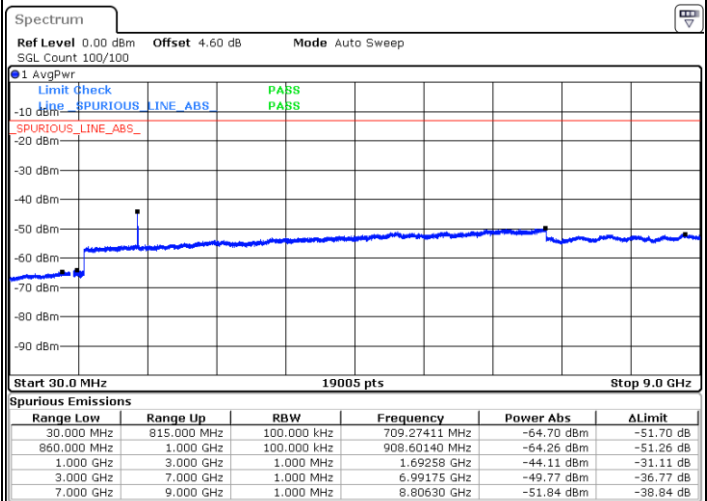
Date: 16 FEB 2020 04:46:25

Highest Channel / QPSK



Date: 16 FEB 2020 04:54:29

Highest Channel / 16QAM

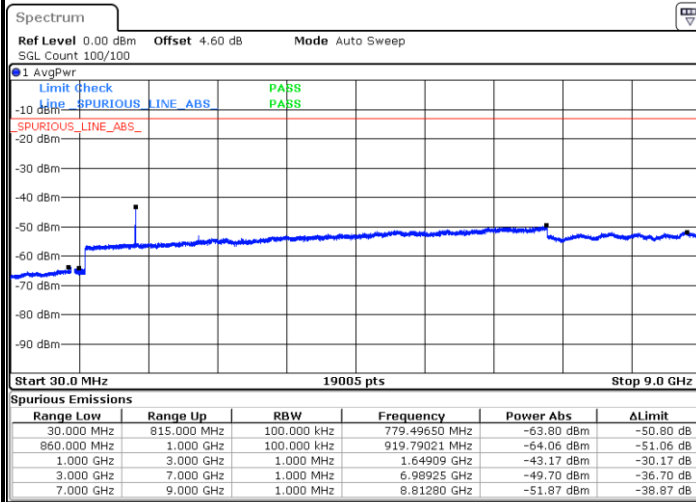


Date: 16 FEB 2020 04:55:23



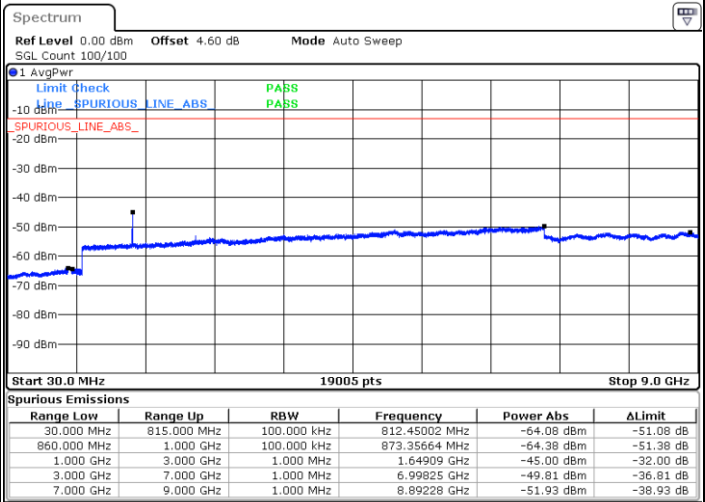
LTE Band 5 / 5MHz

Lowest Channel / QPSK



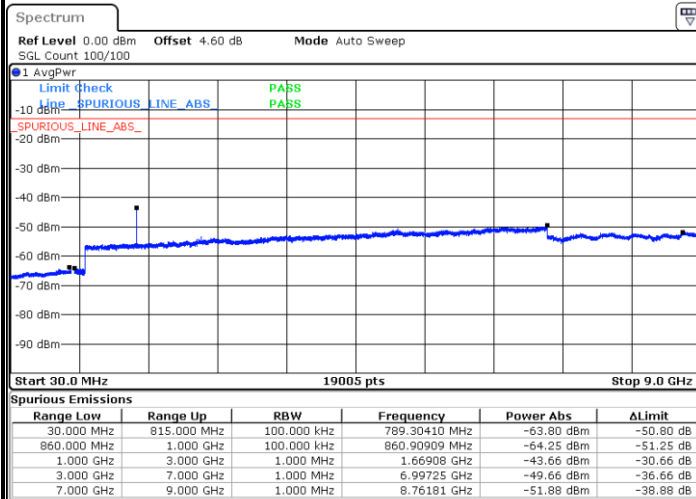
Date: 16 FEB 2020 05:03:28

Lowest Channel / 16QAM



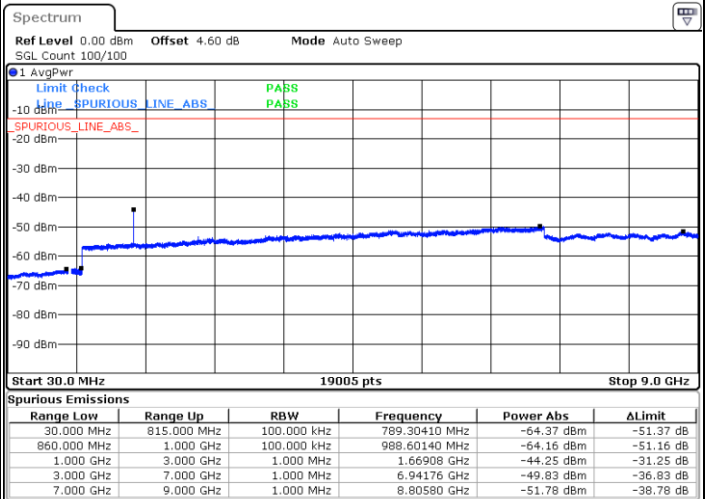
Date: 16 FEB 2020 05:04:22

Middle Channel / QPSK



Date: 16 FEB 2020 05:05:57

Middle Channel / 16QAM

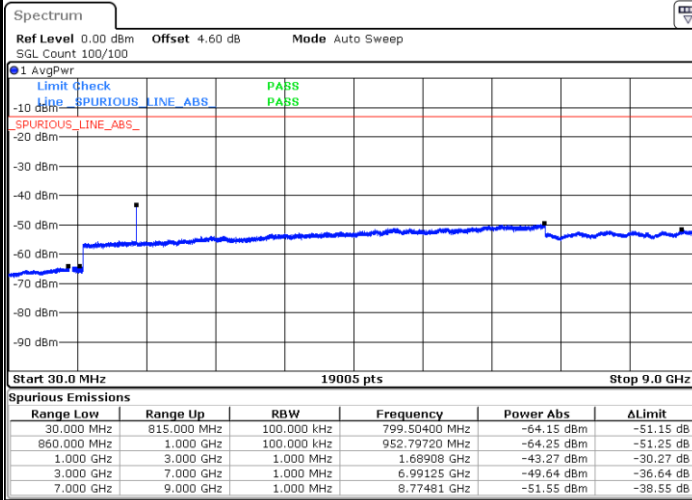


Date: 16 FEB 2020 05:06:51



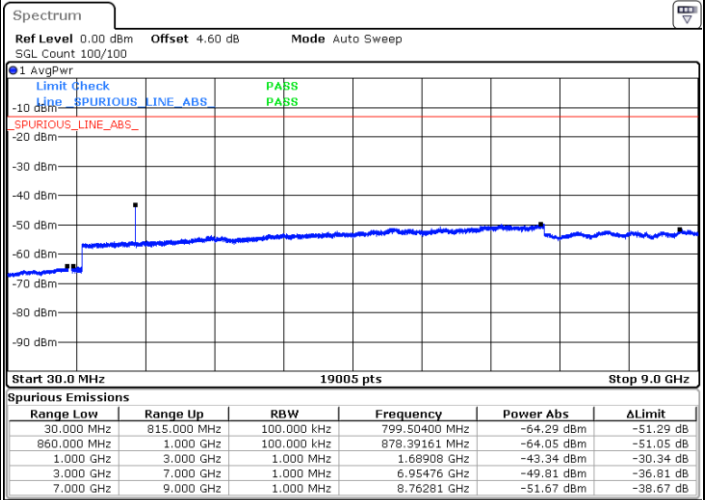
LTE Band 5 / 5MHz

Highest Channel / QPSK



Date: 16 FEB 2020 05:14:55

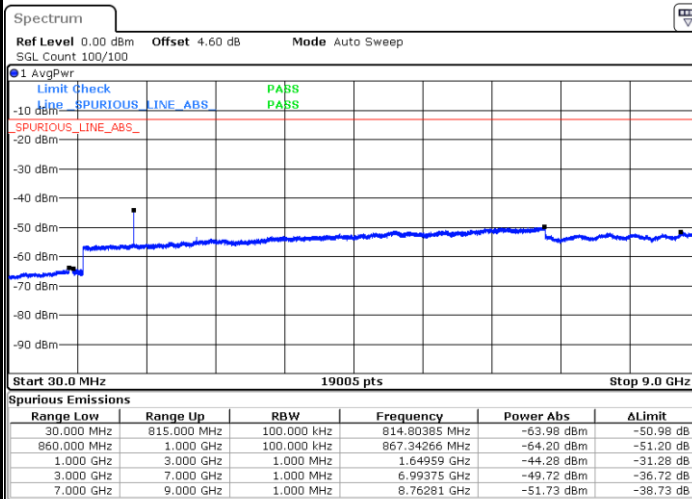
Highest Channel / 16QAM



Date: 16 FEB 2020 05:15:49

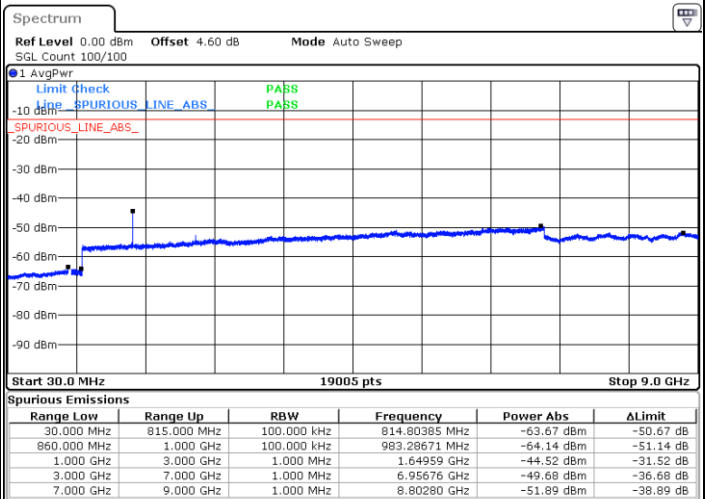
LTE Band 5 / 10MHz

Lowest Channel / QPSK



Date: 16 FEB 2020 05:23:53

Lowest Channel / 16QAM

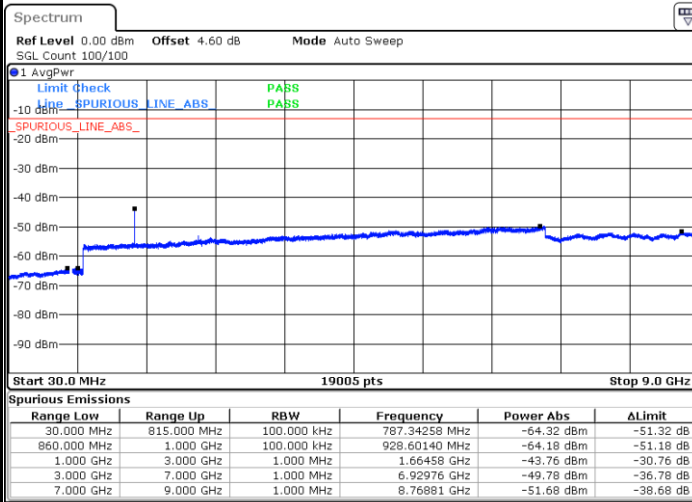


Date: 16 FEB 2020 05:24:48



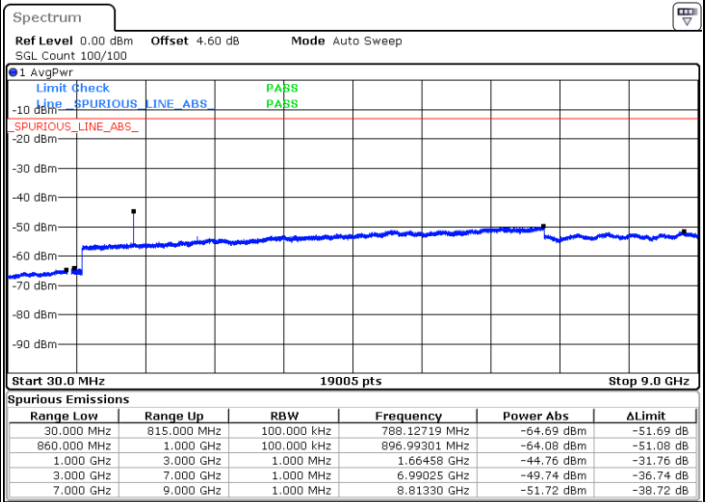
LTE Band 5 / 10MHz

Middle Channel / QPSK



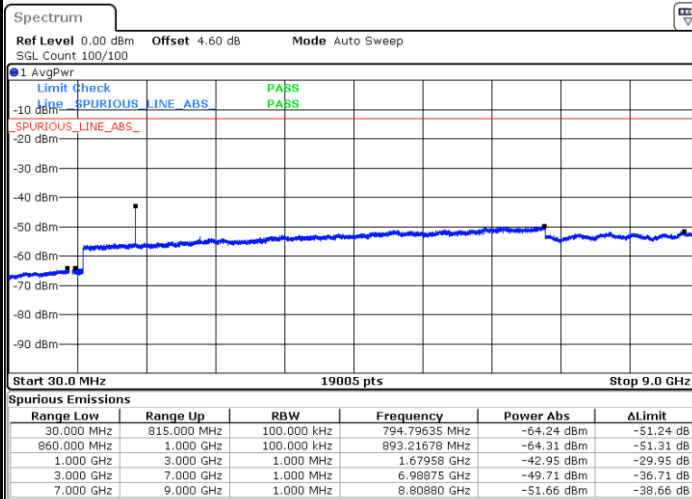
Date: 16 FEB 2020 05:26:22

Middle Channel / 16QAM



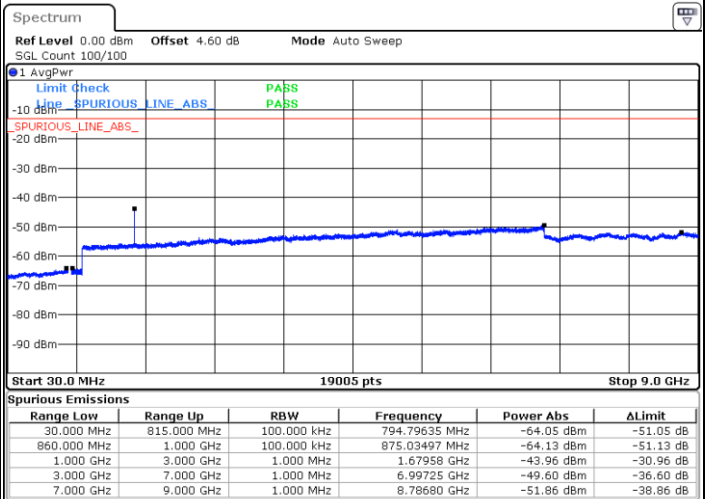
Date: 16 FEB 2020 05:27:16

Highest Channel / QPSK



Date: 16 FEB 2020 05:35:20

Highest Channel / 16QAM

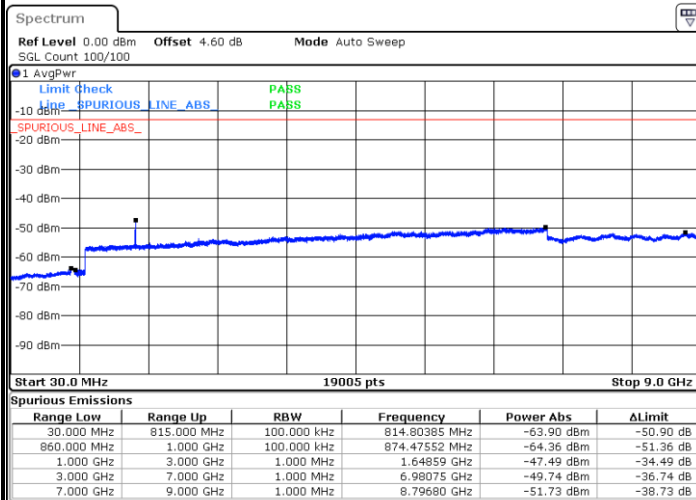


Date: 16 FEB 2020 05:36:15



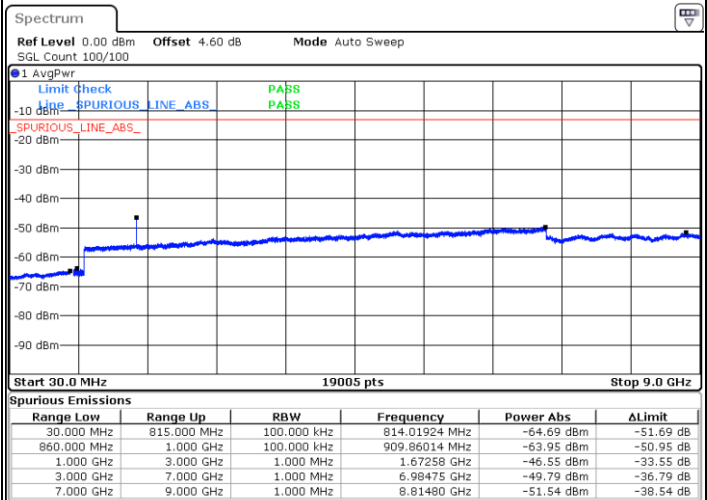
LTE Band 5 / 1.4MHz

Lowest Channel / 64QAM



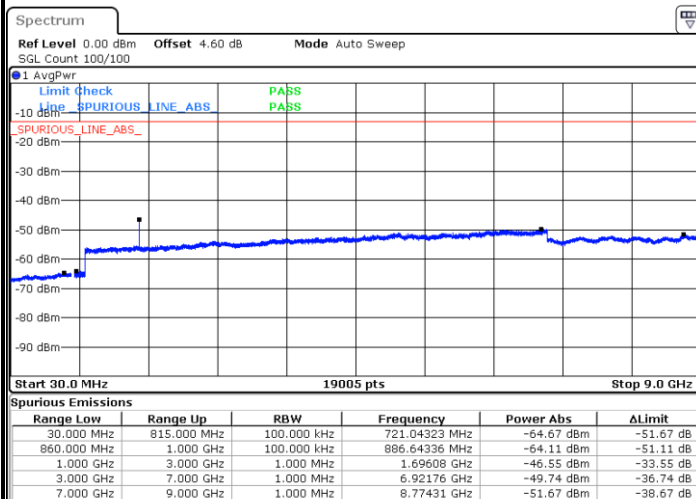
Date: 16 FEB 2020 05:38:46

Middle Channel / 64QAM



Date: 16 FEB 2020 05:39:41

Highest Channel / 64QAM

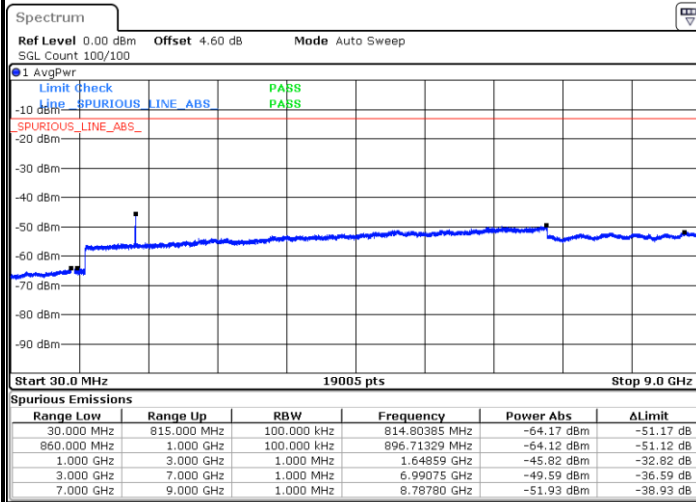


Date: 16 FEB 2020 05:45:12



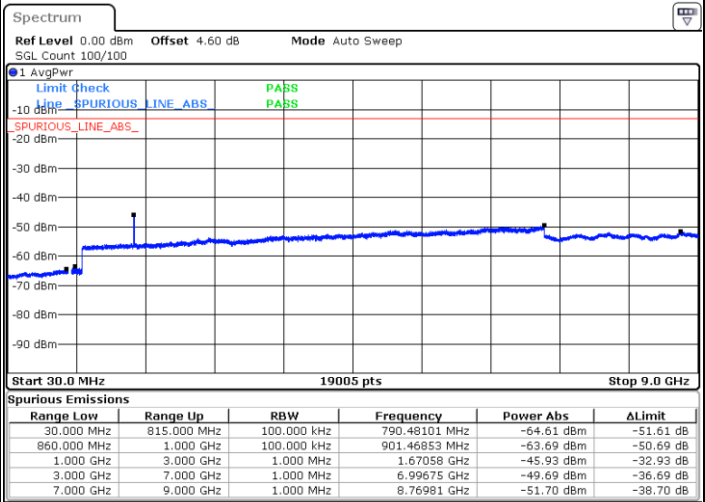
LTE Band 5 / 3MHz

Lowest Channel / 64QAM



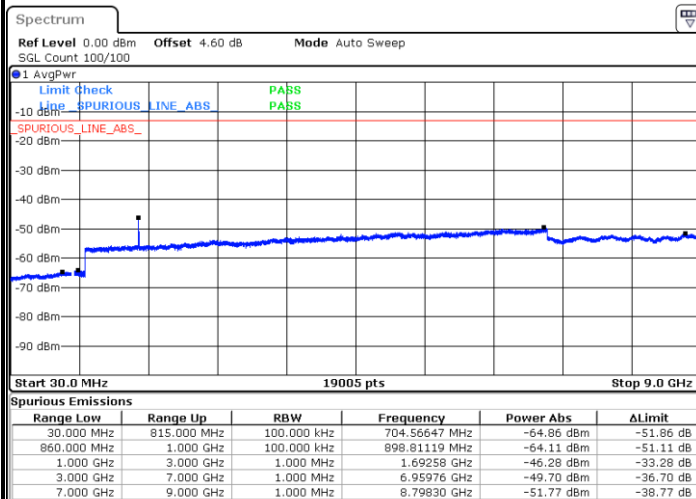
Date: 16.FEB.2020 05:49:41

Middle Channel / 64QAM



Date: 16.FEB.2020 05:50:35

Highest Channel / 64QAM

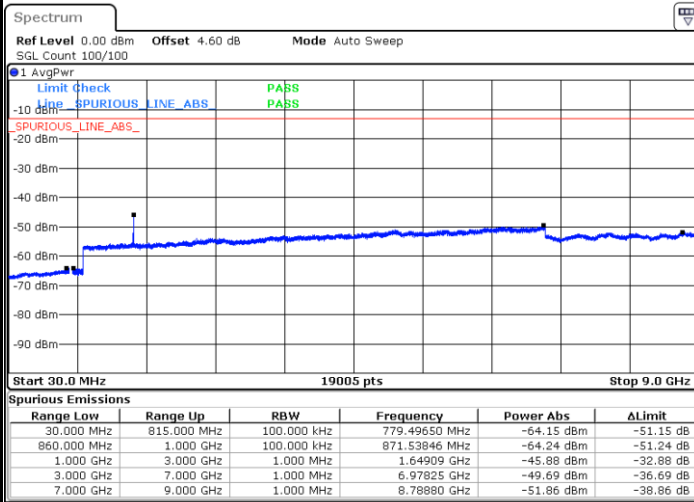


Date: 16.FEB.2020 05:55:56



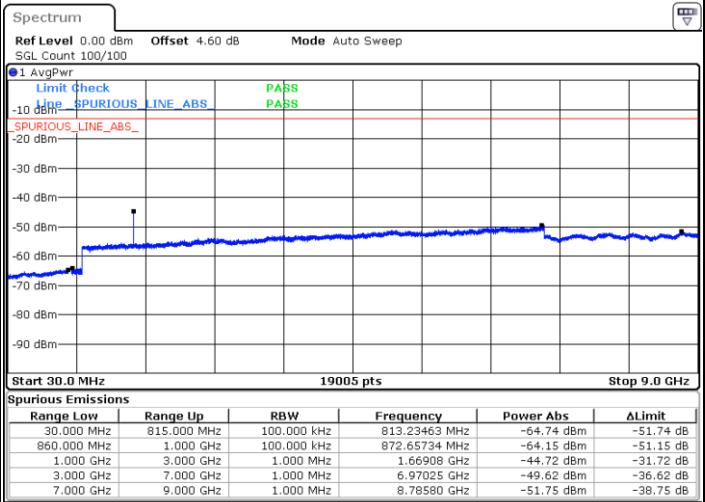
LTE Band 5 / 5MHz

Lowest Channel / 64QAM



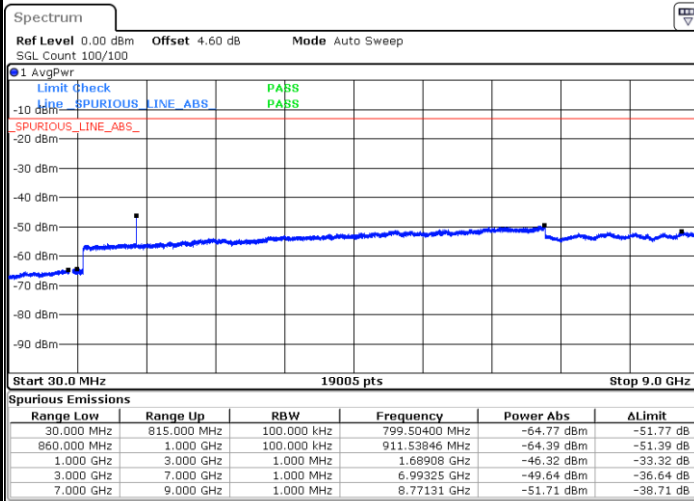
Date: 16.FEB.2020 06:00:26

Middle Channel / 64QAM



Date: 16.FEB.2020 06:01:20

Highest Channel / 64QAM

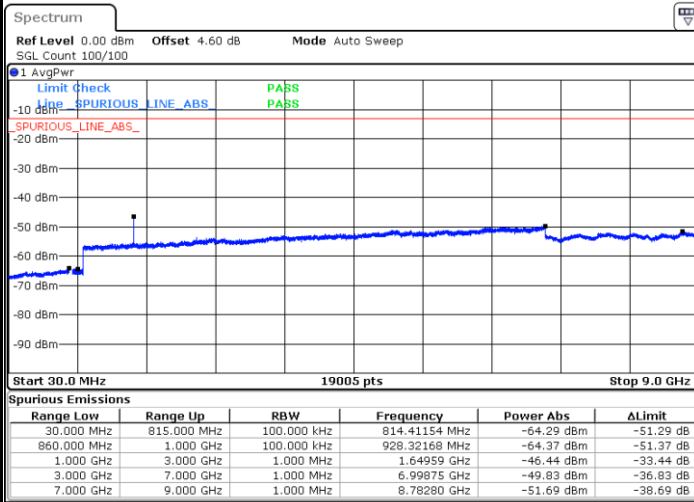


Date: 16.FEB.2020 06:06:09



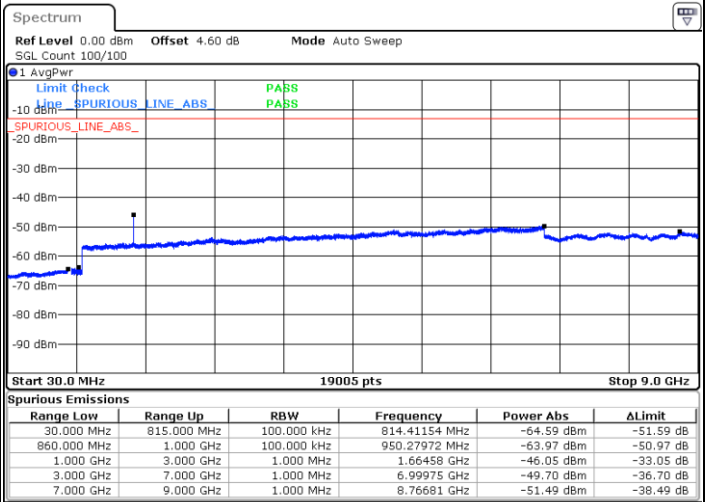
LTE Band 5 / 10MHz

Lowest Channel / 64QAM



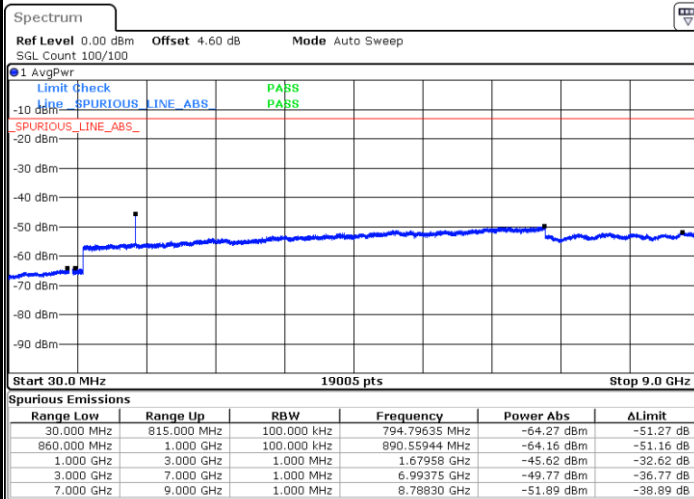
Date: 16.FEB.2020 06:10:38

Middle Channel / 64QAM



Date: 16.FEB.2020 06:11:32

Highest Channel / 64QAM



Date: 16.FEB.2020 06:16:22

**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	0.0020	PASS
40	Normal Voltage	0.0013	
30	Normal Voltage	0.0003	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0022	
0	Normal Voltage	0.0007	
-10	Normal Voltage	0.0003	
-20	Normal Voltage	0.0008	
-30	Normal Voltage	0.0013	
20	Maximum Voltage	0.0041	
20	Normal Voltage	0.0030	
20	Battery End Point	0.0044	

Note:

1. Normal Voltage =3.8 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 41

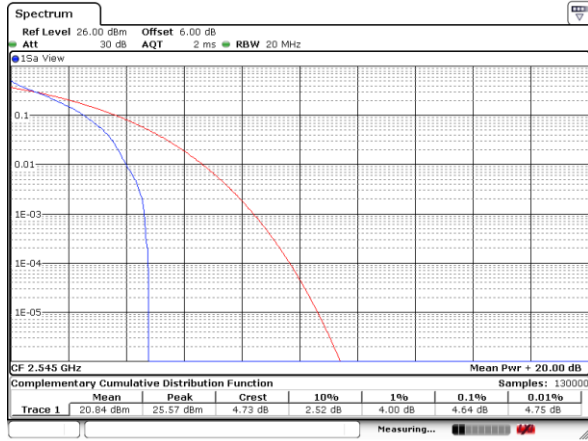
Peak-to-Average Ratio

Mode	LTE Band 41 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.64	5.62	5.86	6.70	PASS
Middle CH	5.42	5.65	5.80	6.20	
Highest CH	6.90	5.77	6.70	6.35	
Mod.	64QAM		Limit: 13dB		
RB Size	1RB	Full RB	Result		
Lowest CH	6.00	6.41	PASS		
Middle CH	6.06	6.23			
Highest CH	6.58	6.38			

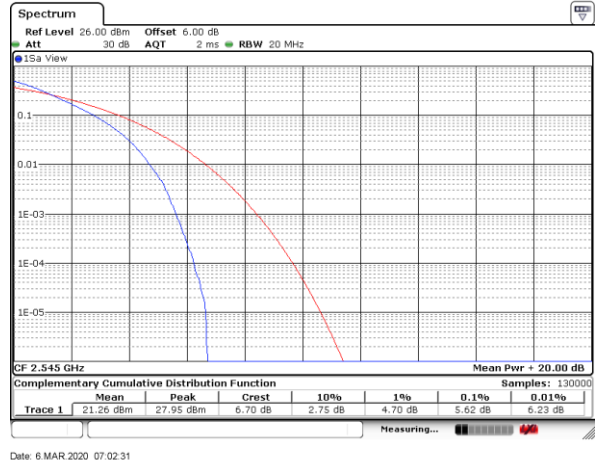


LTE Band 41 / 20MHz / QPSK

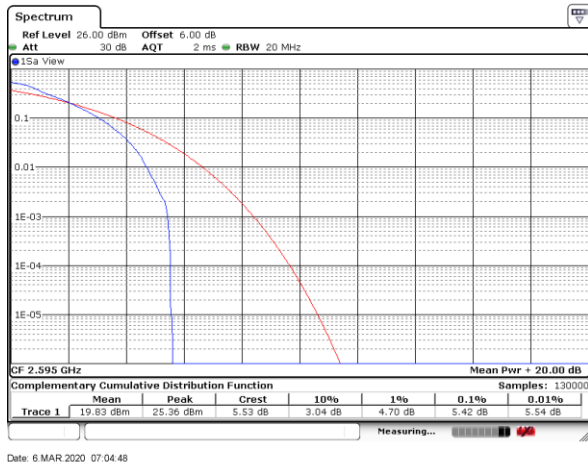
Lowest Channel / 1RB



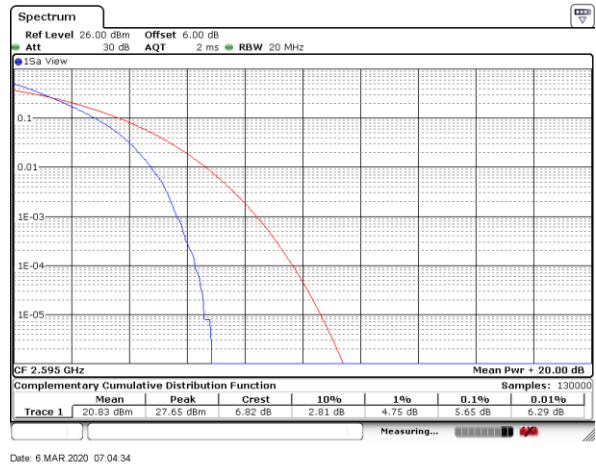
Lowest Channel / Full RB



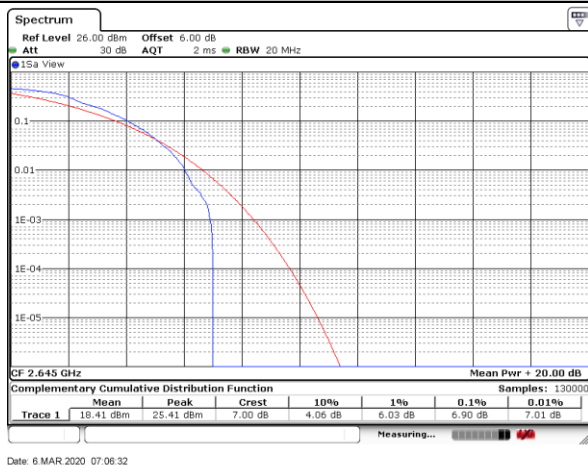
Middle Channel / 1RB



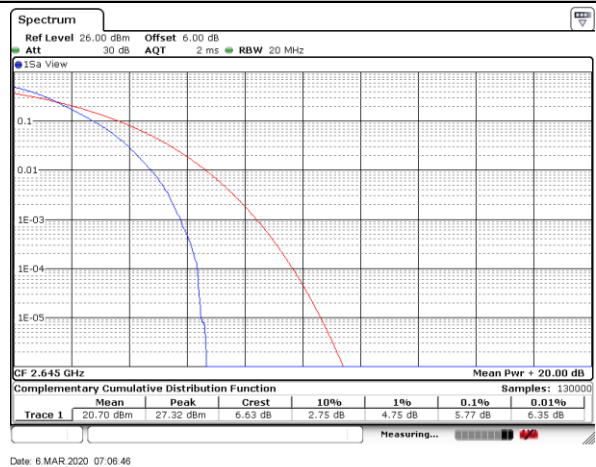
Middle Channel / Full RB



Highest Channel / 1RB



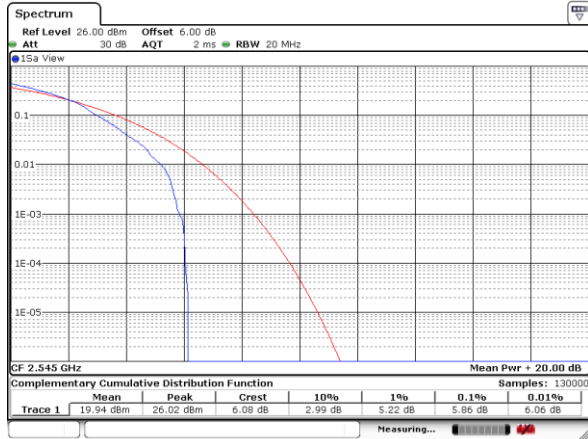
Highest Channel / Full RB



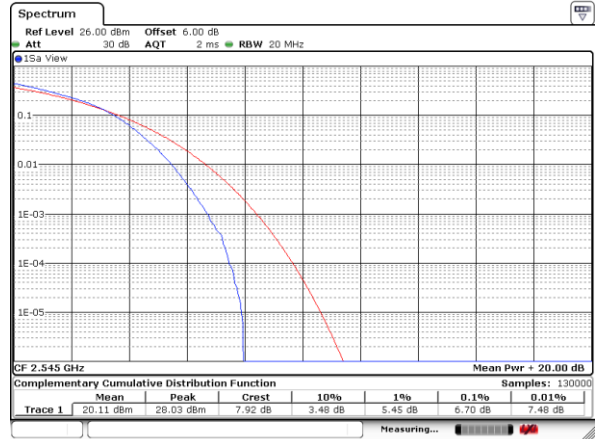


LTE Band 41 / 20MHz / 16QAM

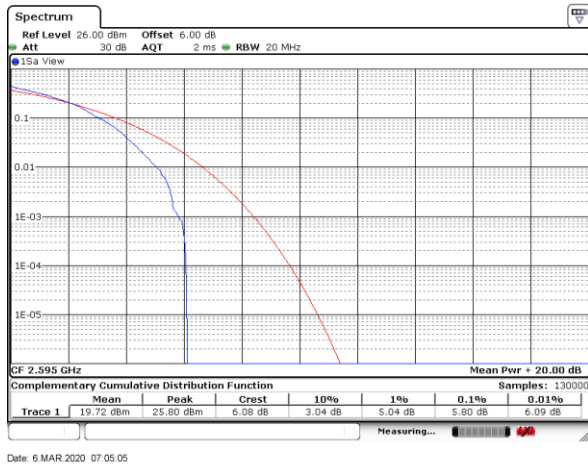
Lowest Channel / 1RB



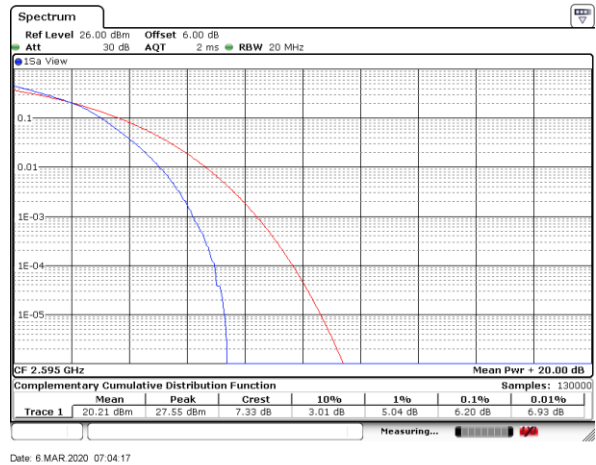
Lowest Channel / Full RB



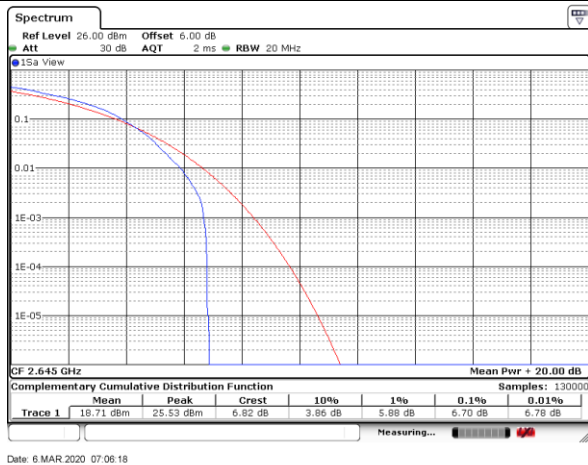
Middle Channel / 1RB



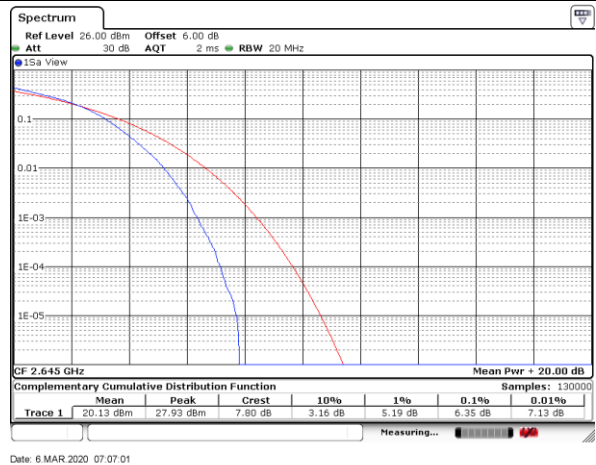
Middle Channel / Full RB



Highest Channel / 1RB



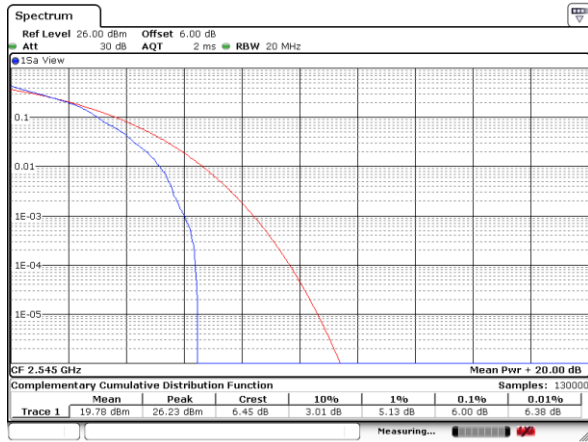
Highest Channel / Full RB





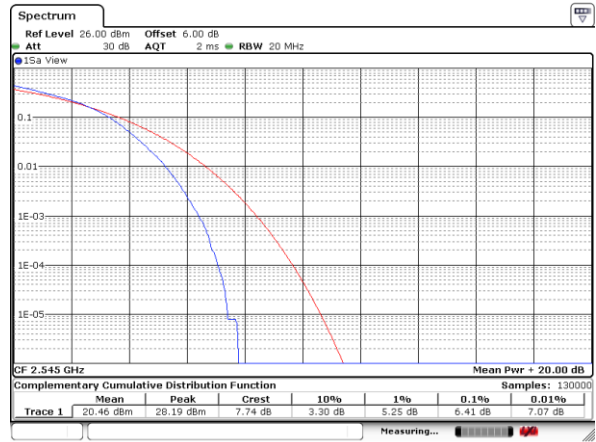
LTE Band 41 / 20MHz / 64QAM

Lowest Channel / 1RB



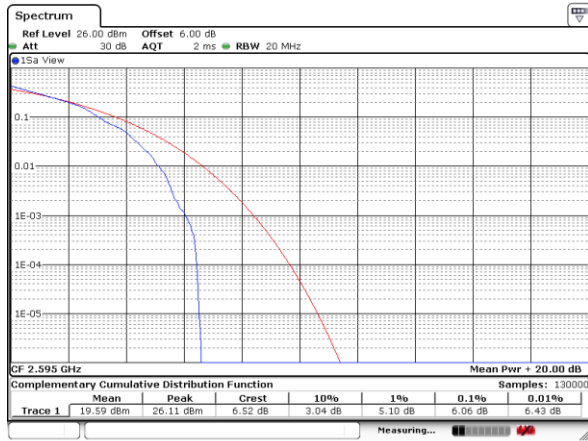
Date: 6 MAR 2020 07:54:23

Lowest Channel / Full RB



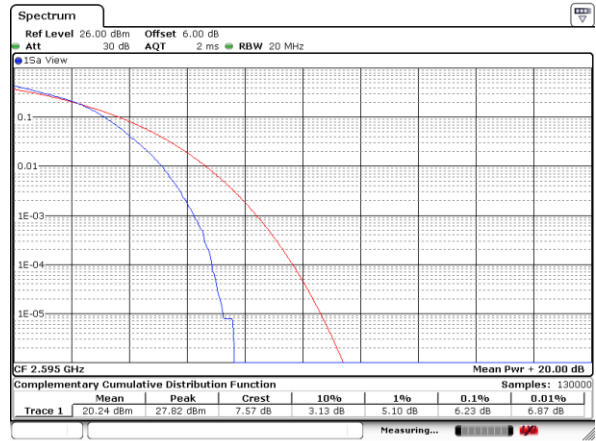
Date: 6 MAR 2020 07:03:05

Middle Channel / 1RB



Date: 6 MAR 2020 07:05:18

Middle Channel / Full RB



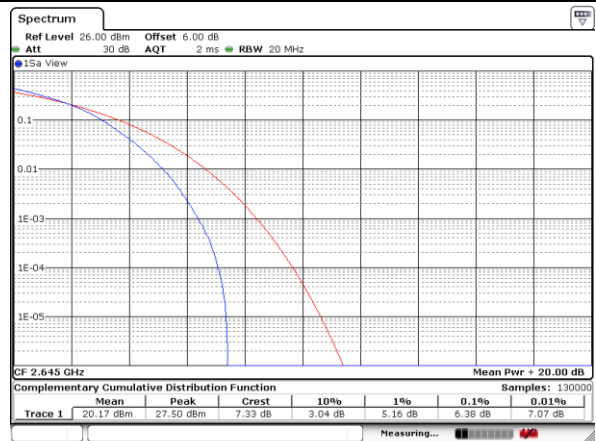
Date: 6 MAR 2020 07:03:48

Highest Channel / 1RB



Date: 6 MAR 2020 07:06:01

Highest Channel / Full RB



Date: 6 MAR 2020 07:07:30



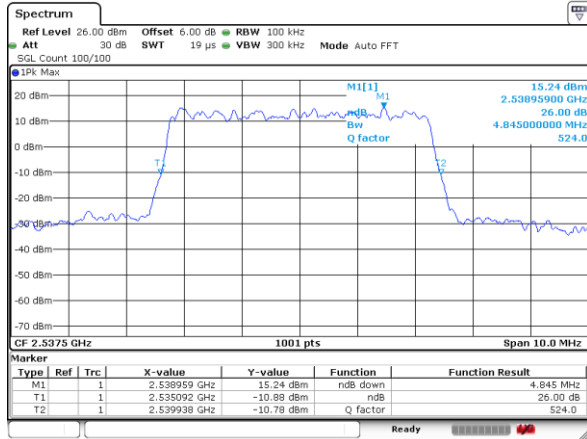
26dB Bandwidth

Mode	LTE Band 41 : 26dB BW(MHz)											
BW	5MHz		10MHz		15MHz		20MHz		5MHz	10MHz	15MHz	20MHz
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	64QAM	64QAM	64QAM	64QAM
Lowest CH	4.845	4.805	9.75	9.67	14.386	14.206	20.1	20.1	4.825	9.79	14.116	20.1
Middle CH	4.895	4.905	9.61	9.67	14.146	14.176	20.34	20.1	4.735	9.73	14.386	20.1
Highest CH	4.795	4.835	9.69	9.73	14.266	14.236	20.06	20.18	4.815	9.67	14.236	20.22



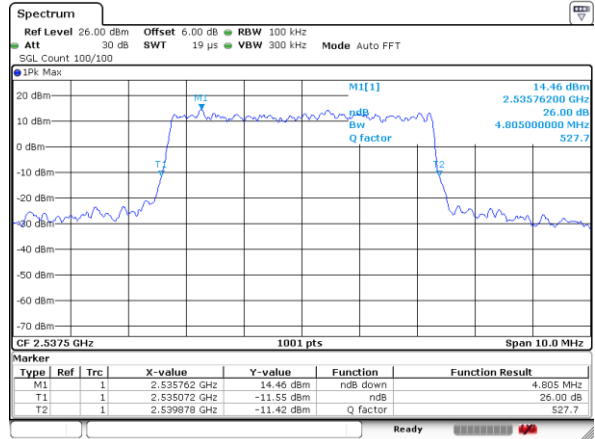
LTE Band 41

Lowest Channel / 5MHz / QPSK



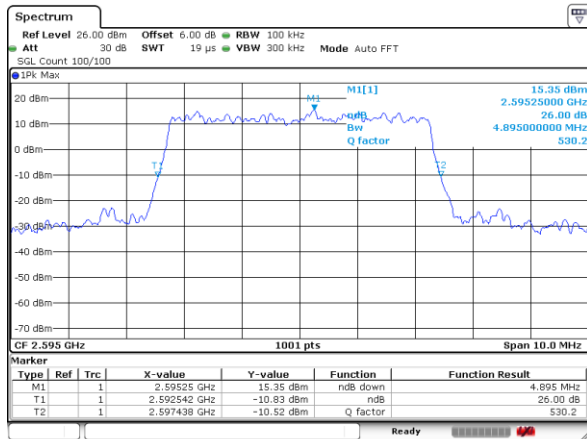
Date: 6 MAR 2020 07:47:15

Lowest Channel / 5MHz / 16QAM



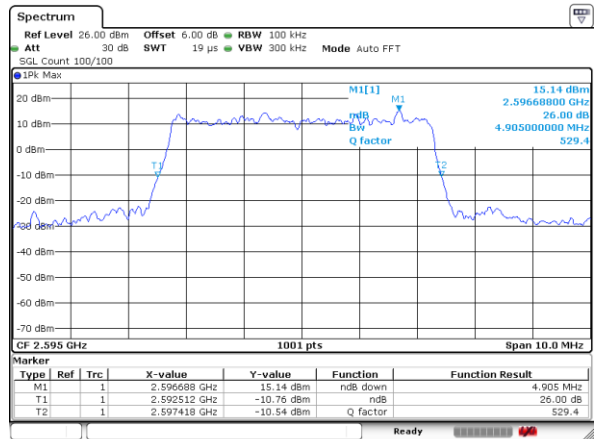
Date: 6 MAR 2020 07:47:34

Middle Channel / 5MHz / QPSK



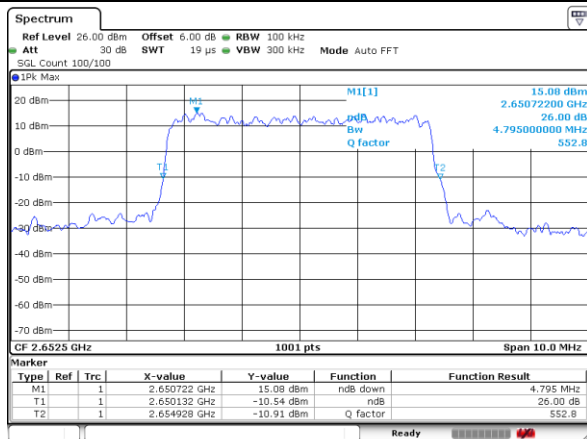
Date: 6 MAR 2020 07:48:48

Middle Channel / 5MHz / 16QAM



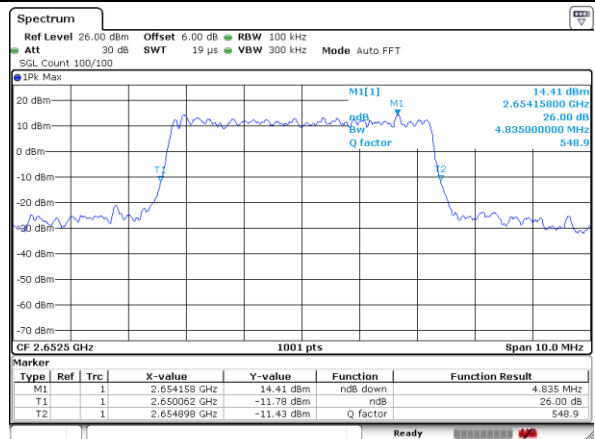
Date: 6 MAR 2020 07:48:35

Highest Channel / 5MHz / QPSK



Date: 6 MAR 2020 07:49:11

Highest Channel / 5MHz / 16QAM



Date: 6 MAR 2020 07:49:29