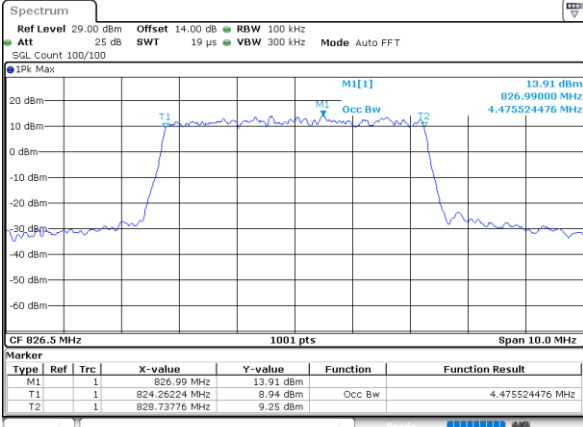




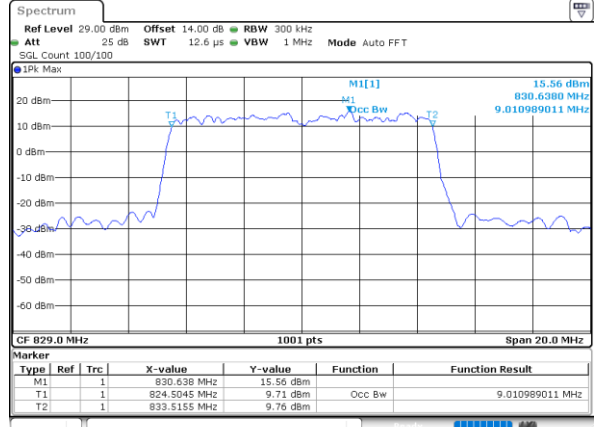
LTE Band 5

Lowest Channel / 5MHz / 64QAM



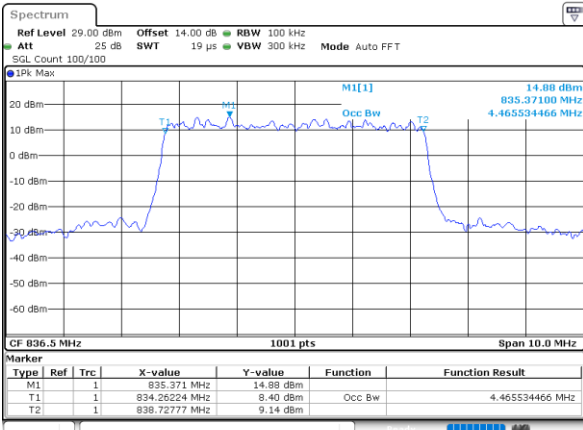
Date: 9_JUL_2021 10:54:32

Lowest Channel / 10MHz / 64QAM



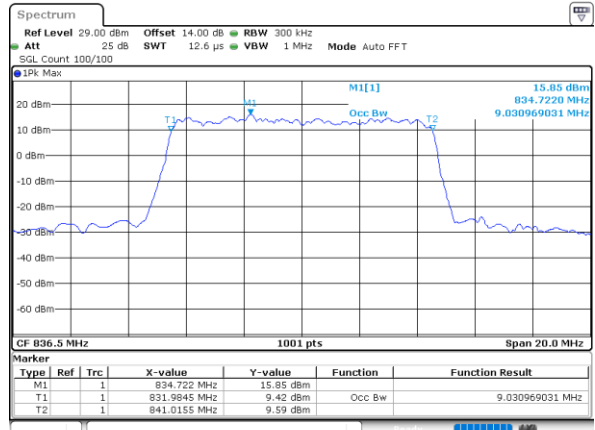
Date: 9_JUL_2021 11:26:35

Middle Channel / 5MHz / 64QAM



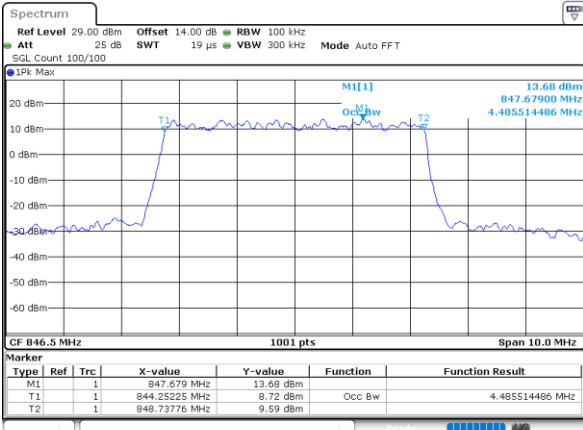
Date: 9_JUL_2021 10:59:12

Middle Channel / 10MHz / 64QAM



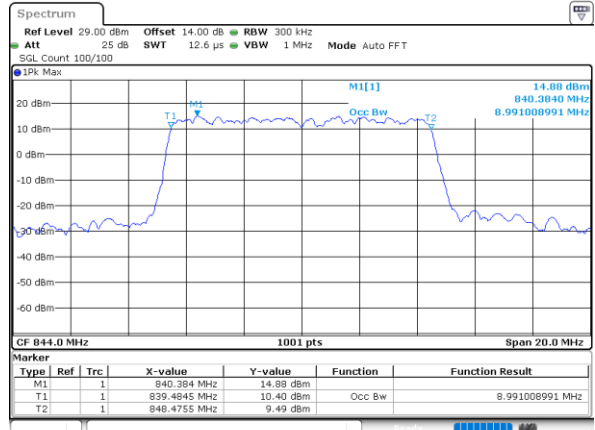
Date: 9_JUL_2021 13:31:55

Highest Channel / 5MHz / 64QAM



Date: 9_JUL_2021 11:00:33

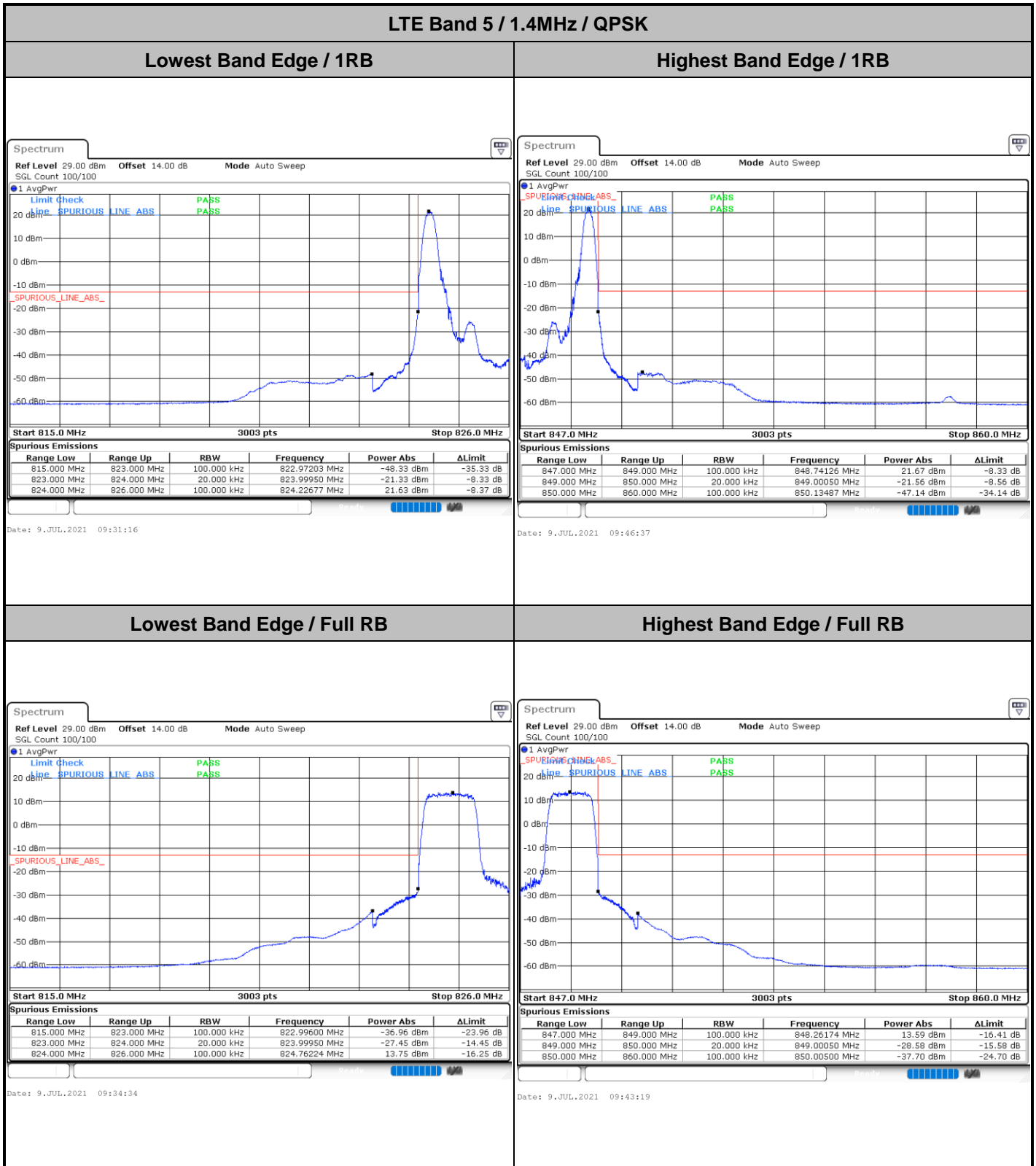
Highest Channel / 10MHz / 64QAM



Date: 9_JUL_2021 13:33:16



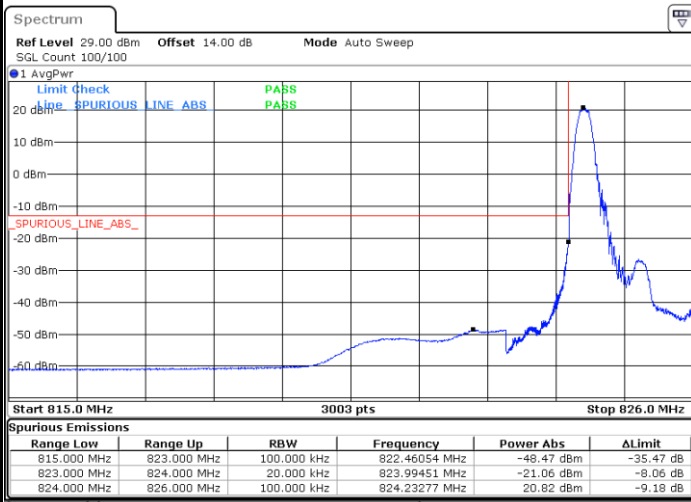
Conducted Band Edge





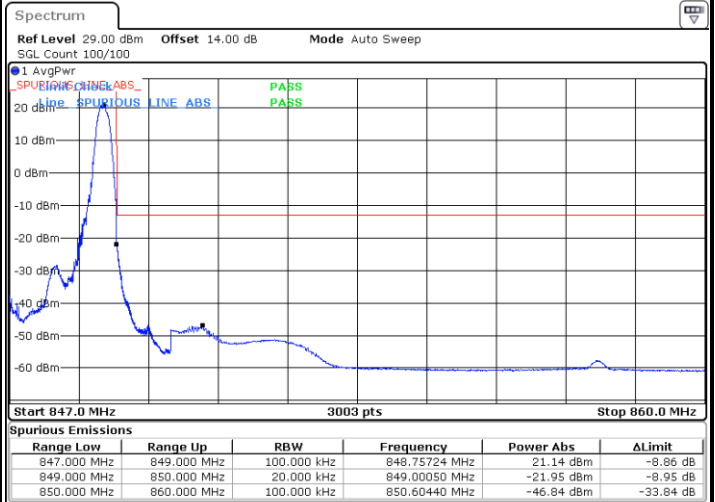
LTE Band 5 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



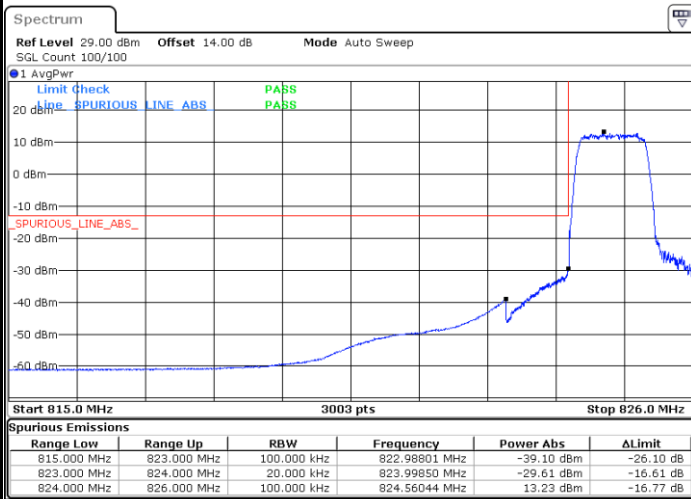
Date: 9.JUL.2021 13:53:34

Highest Band Edge / 1 RB



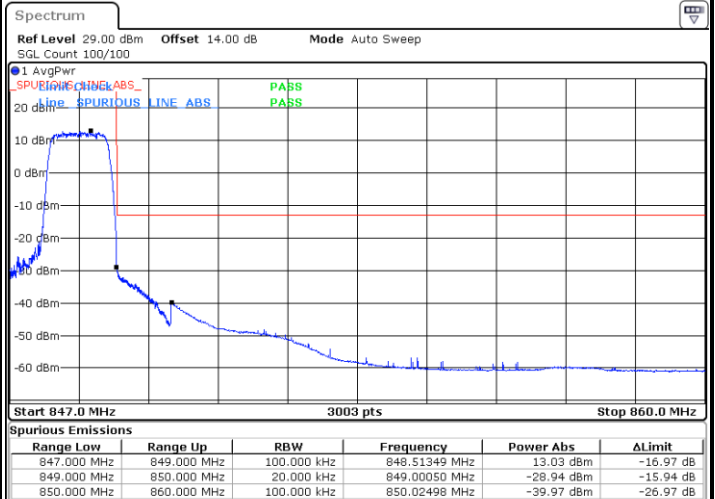
Date: 9.JUL.2021 13:58:19

Lowest Band Edge / Full RB



Date: 9.JUL.2021 09:36:13

Highest Band Edge / Full RB

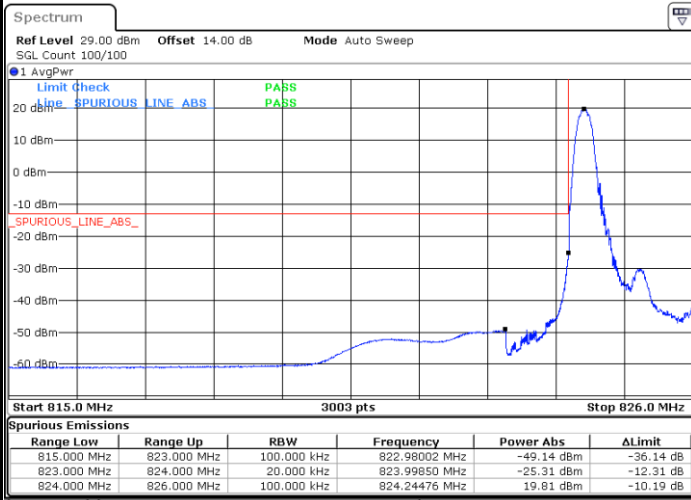


Date: 9.JUL.2021 09:44:58



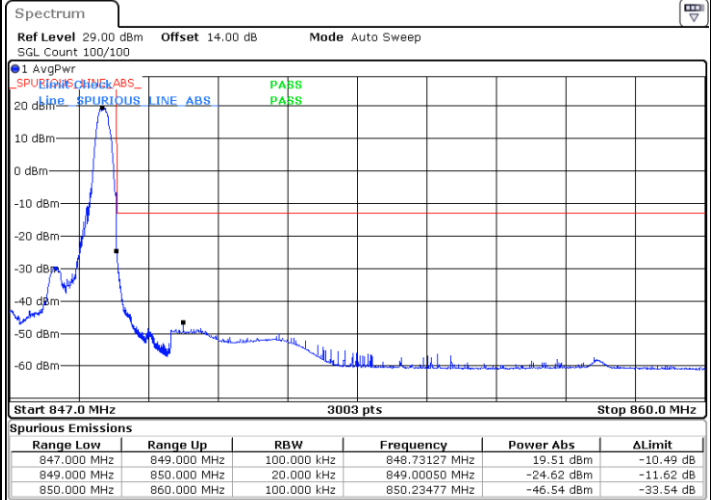
LTE Band 5 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



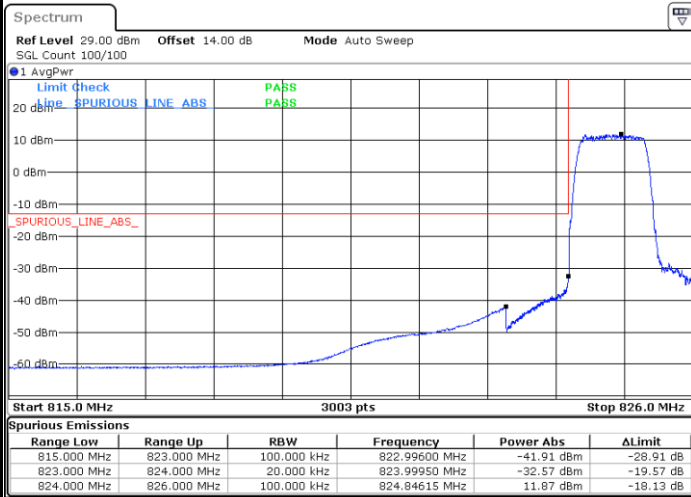
Date: 9.JUL.2021 13:56:02

Highest Band Edge / 1 RB



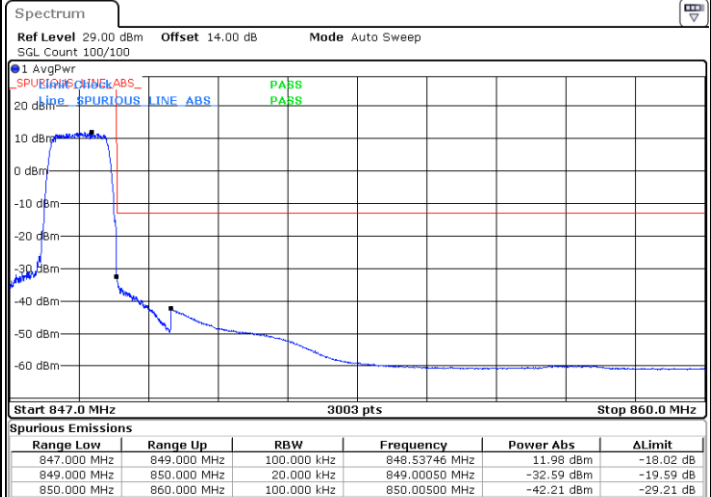
Date: 9.JUL.2021 09:59:57

Lowest Band Edge / Full RB



Date: 9.JUL.2021 09:53:55

Highest Band Edge / Full RB

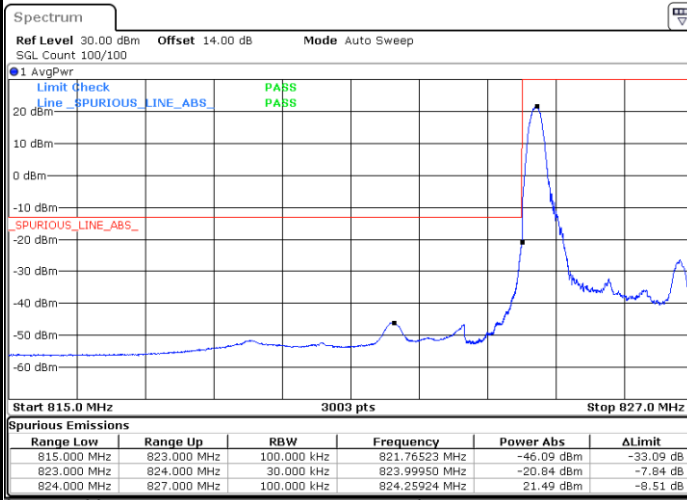


Date: 9.JUL.2021 09:58:18



LTE Band 5 / 3MHz / QPSK

Lowest Band Edge / 1RB



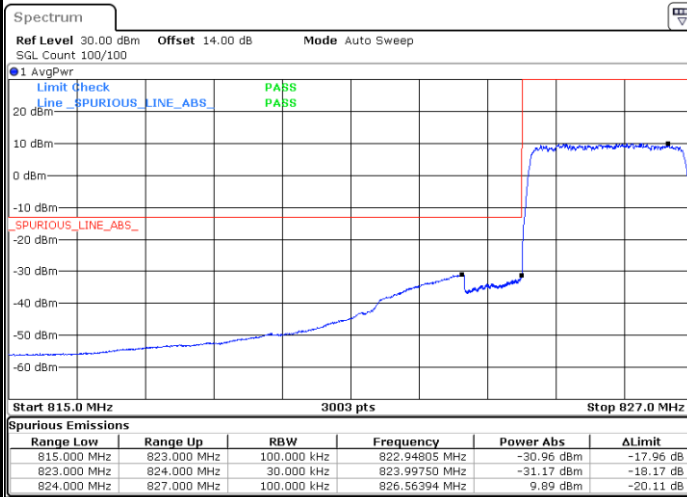
Date: 9.JUL.2021 10:03:19

Highest Band Edge / 1 RB



Date: 9.JUL.2021 10:15:22

Lowest Band Edge / Full RB



Date: 9.JUL.2021 10:06:37

Highest Band Edge / Full RB

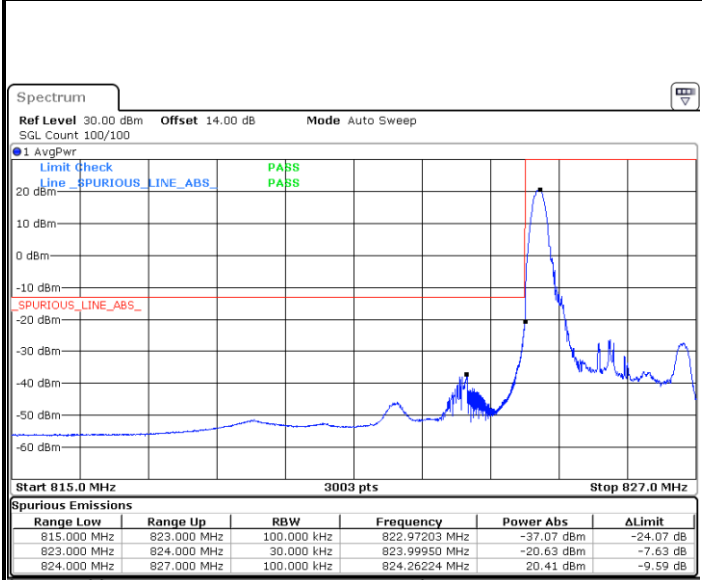


Date: 9.JUL.2021 10:18:40



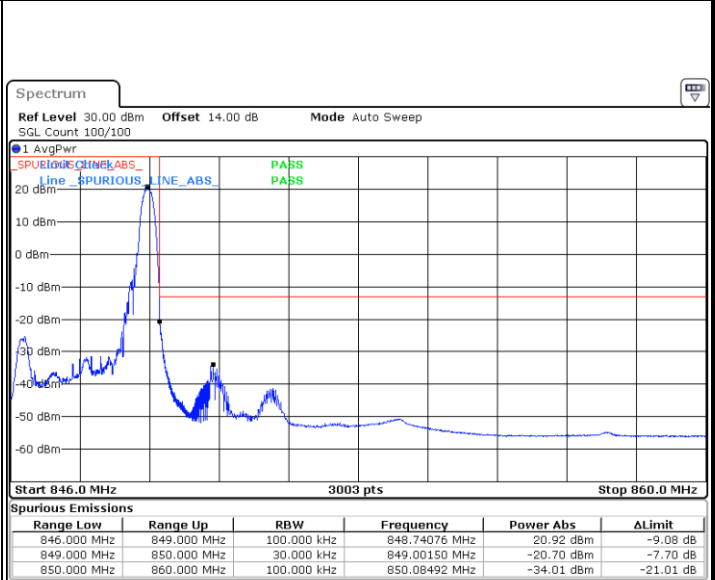
LTE Band 5 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



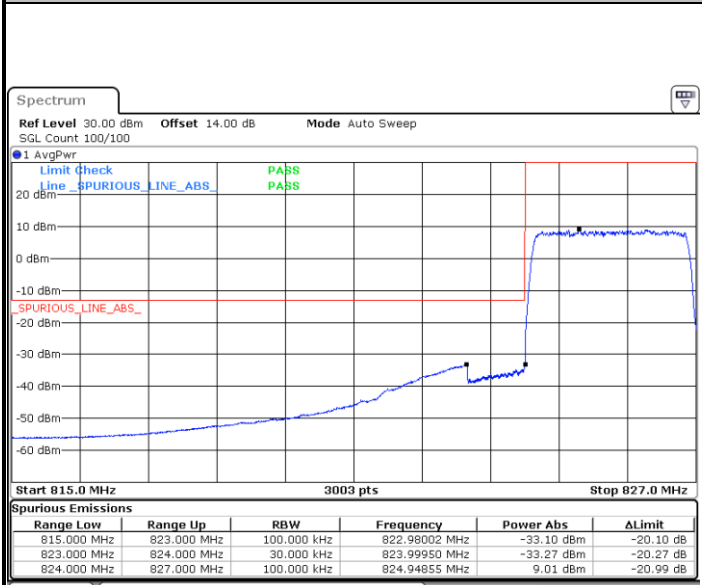
Date: 9.JUL.2021 14:01:22

Highest Band Edge / 1 RB



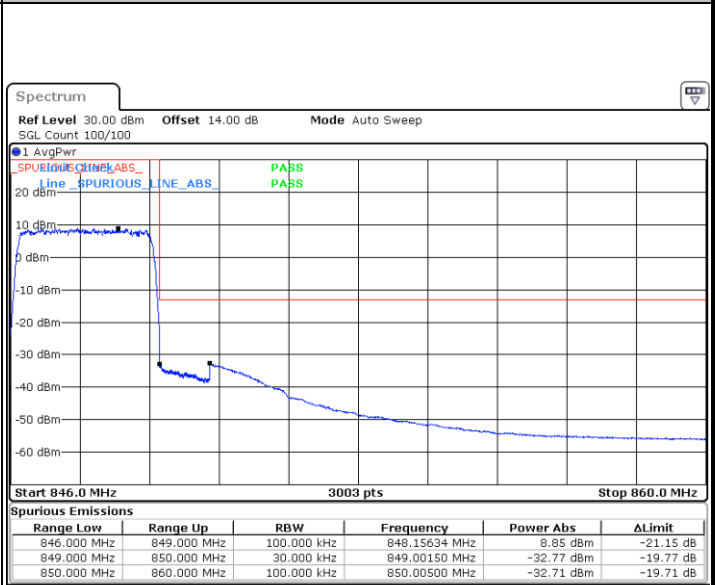
Date: 9.JUL.2021 10:17:01

Lowest Band Edge / Full RB



Date: 9.JUL.2021 10:08:16

Highest Band Edge / Full RB

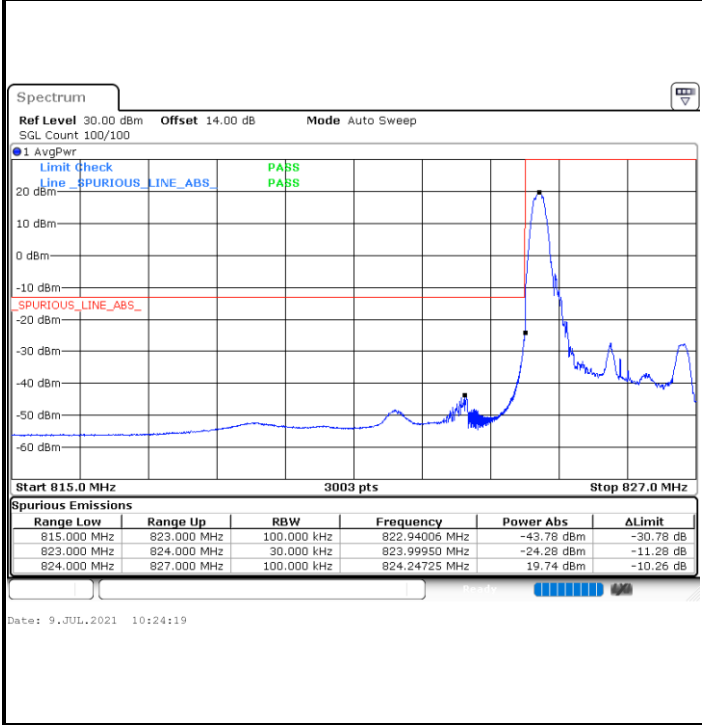


Date: 9.JUL.2021 10:20:19

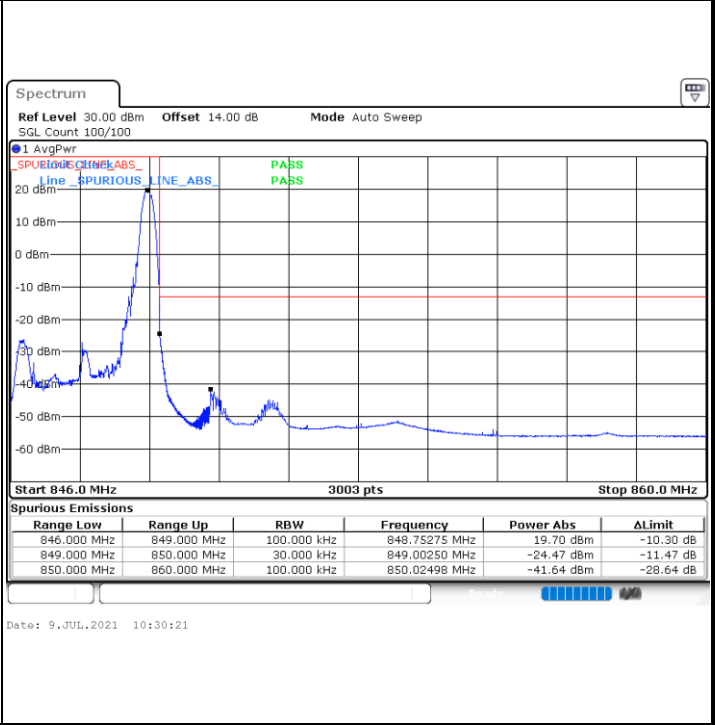


LTE Band 5 / 3MHz / 64QAM

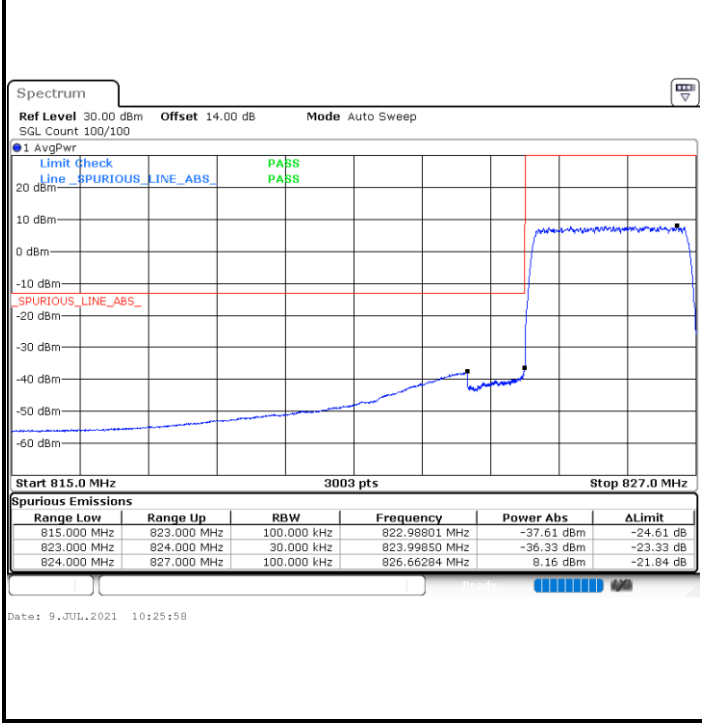
Lowest Band Edge / 1 RB



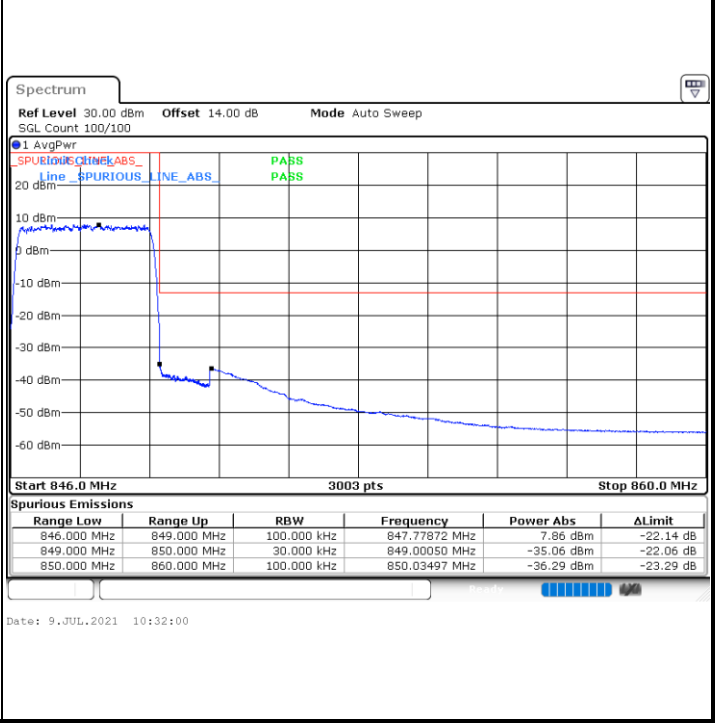
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



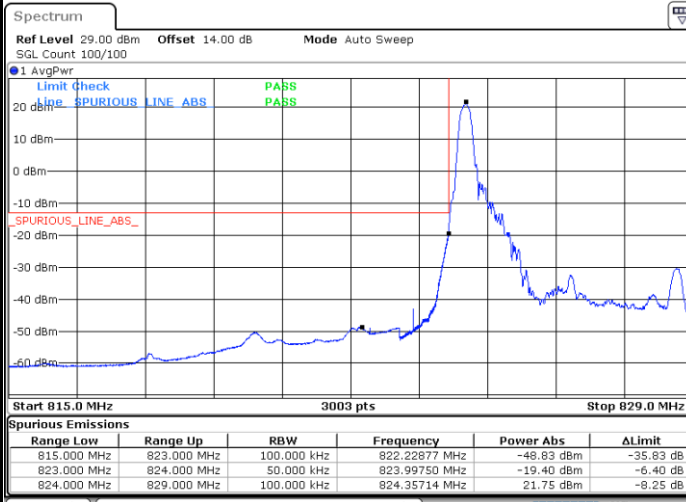
Highest Band Edge / Full RB





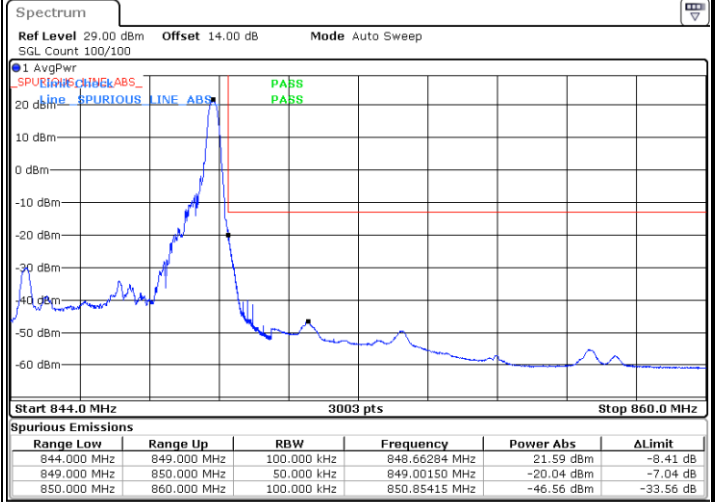
LTE Band 5 / 5MHz / QPSK

Lowest Band Edge / 1 RB



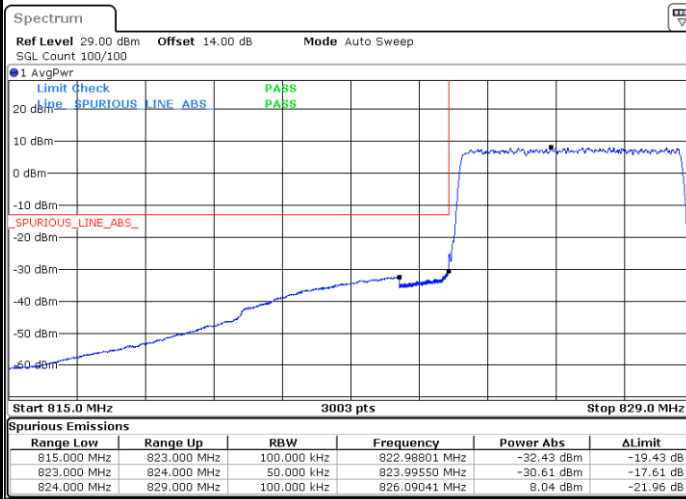
Date: 9.JUL.2021 10:35:23

Highest Band Edge / 1 RB



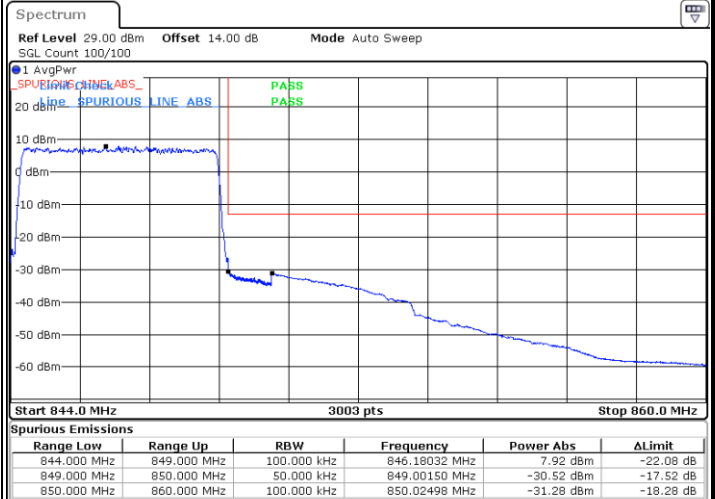
Date: 9.JUL.2021 10:47:25

Lowest Band Edge / Full RB



Date: 9.JUL.2021 10:38:41

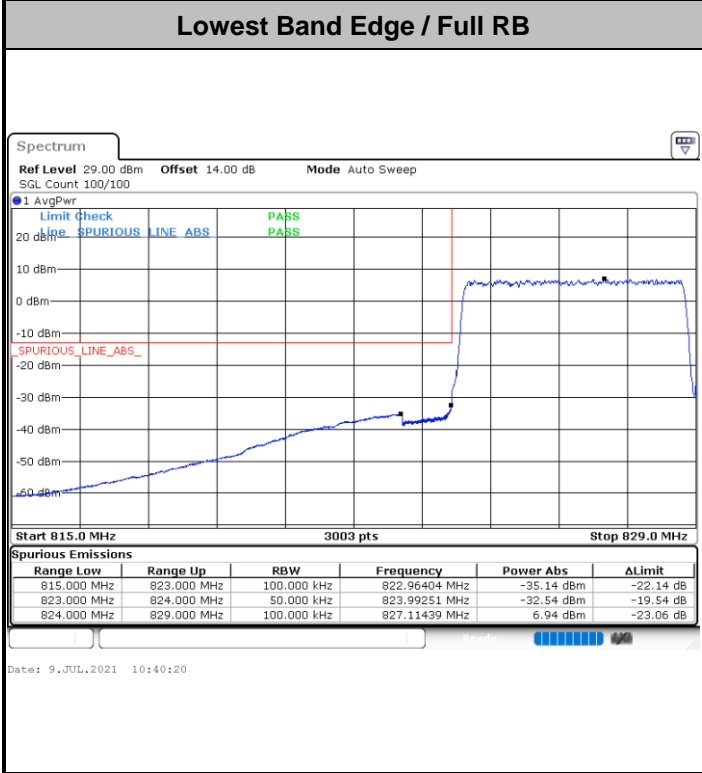
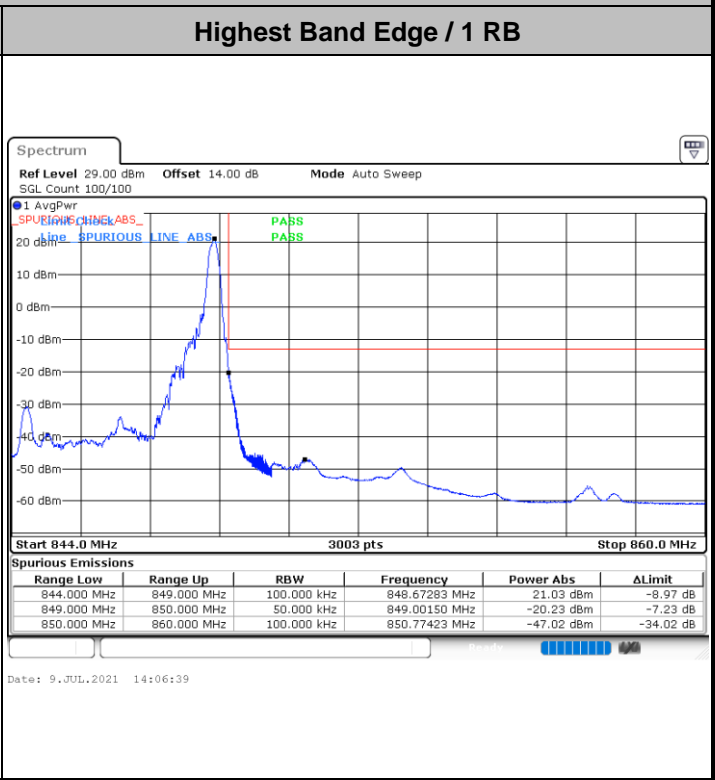
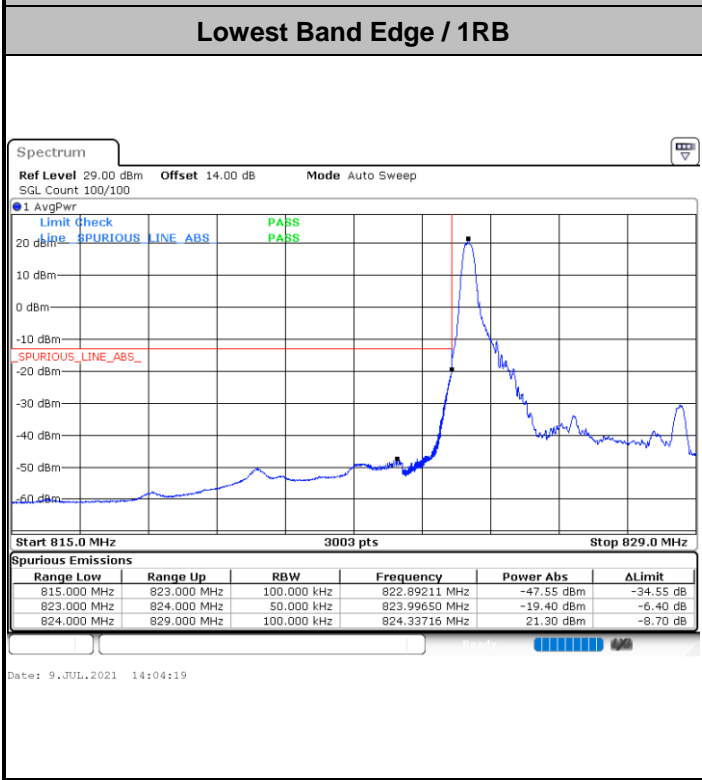
Highest Band Edge / Full RB



Date: 9.JUL.2021 10:50:43



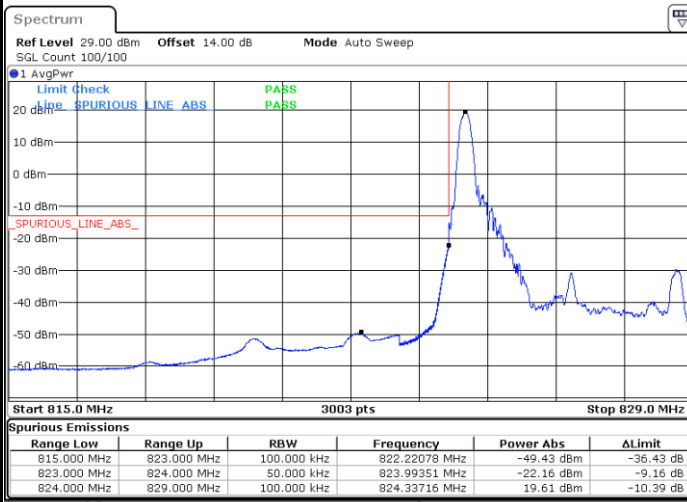
LTE Band 5 / 5MHz / 16QAM





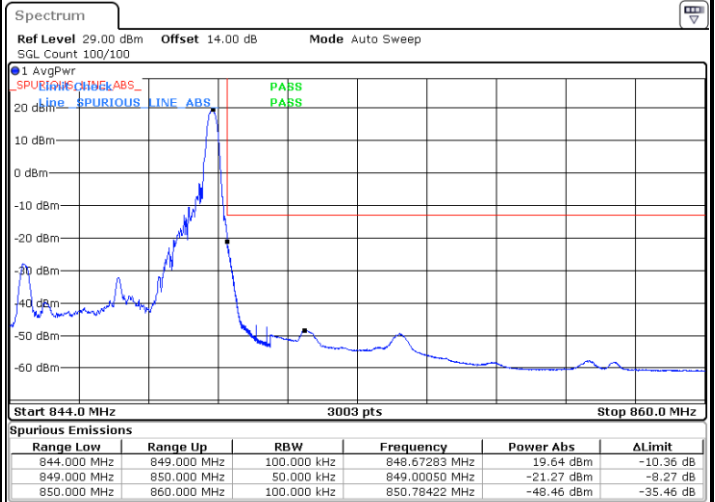
LTE Band 5 / 5MHz / 64QAM

Lowest Band Edge / 1RB



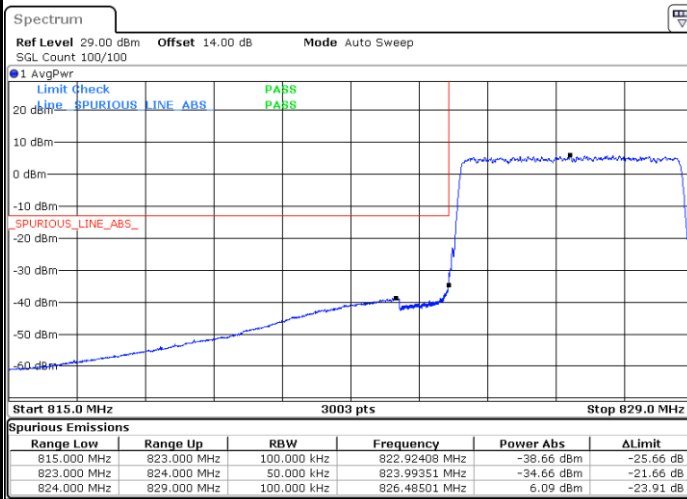
Date: 9.JUL.2021 10:56:22

Highest Band Edge / 1 RB



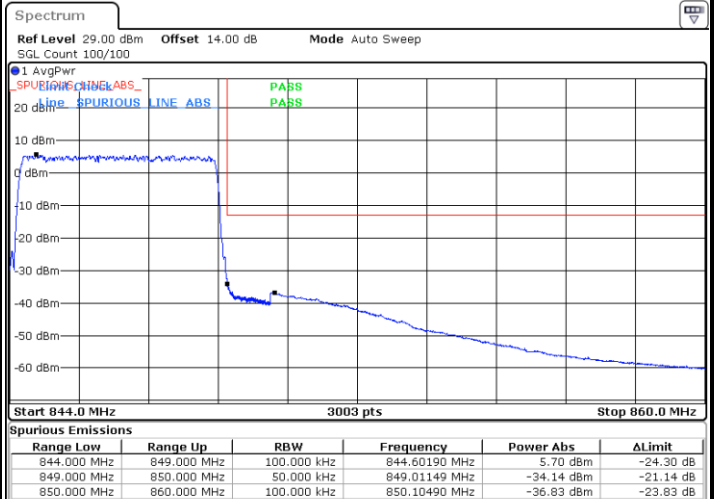
Date: 9.JUL.2021 14:07:47

Lowest Band Edge / Full RB



Date: 9.JUL.2021 10:58:01

Highest Band Edge / Full RB



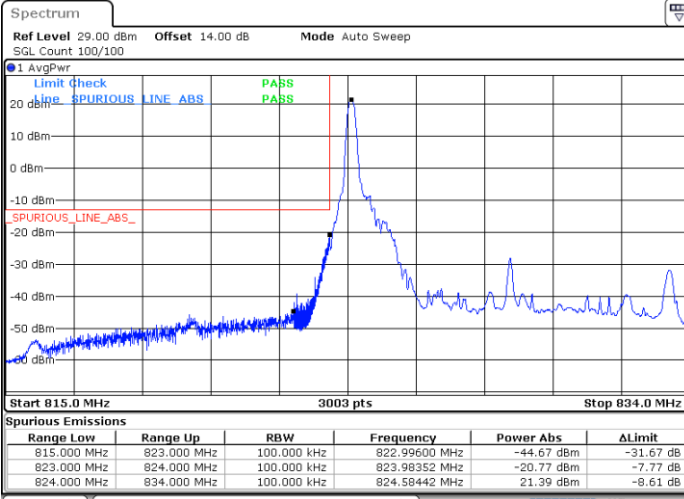
Date: 9.JUL.2021 11:04:02



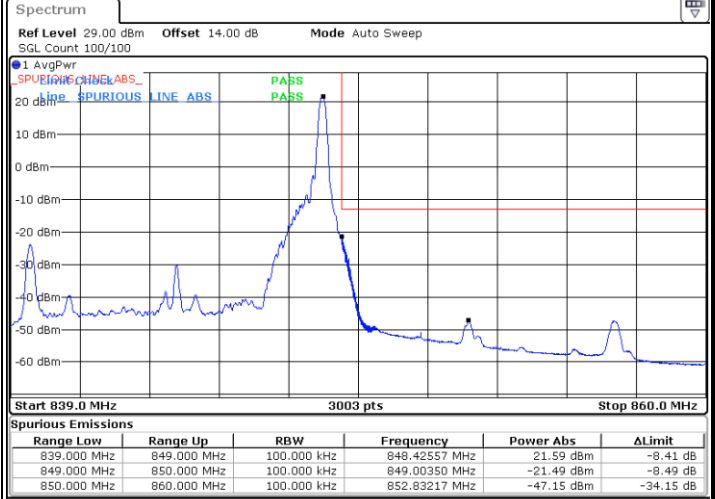
LTE Band 5 / 10MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



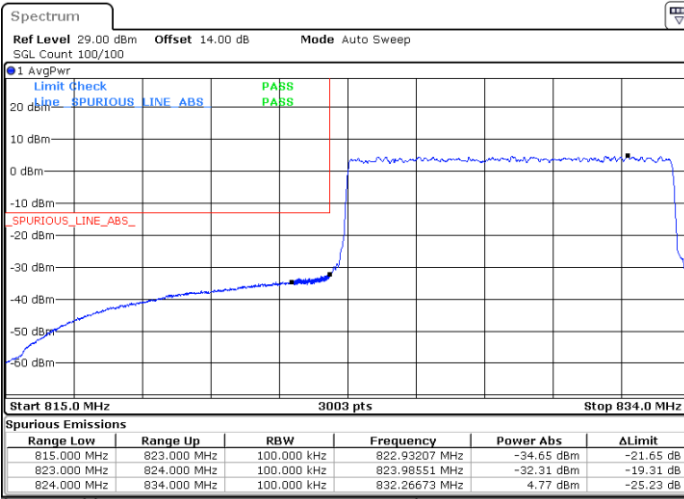
Date: 9.JUL.2021 14:16:05



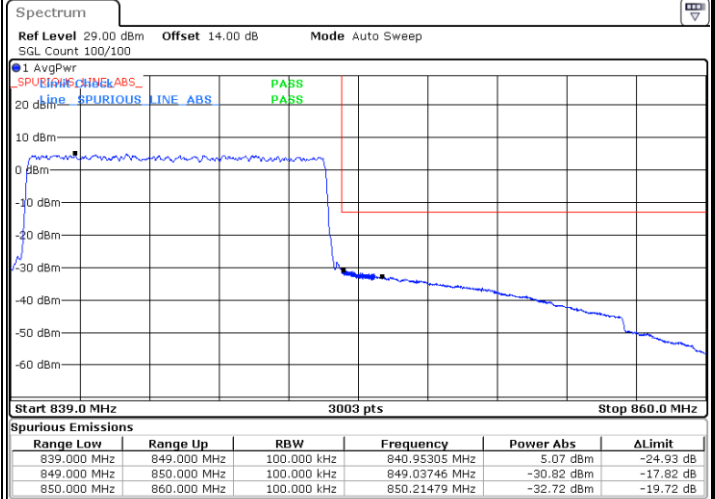
Date: 9.JUL.2021 11:18:28

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 9.JUL.2021 11:09:44

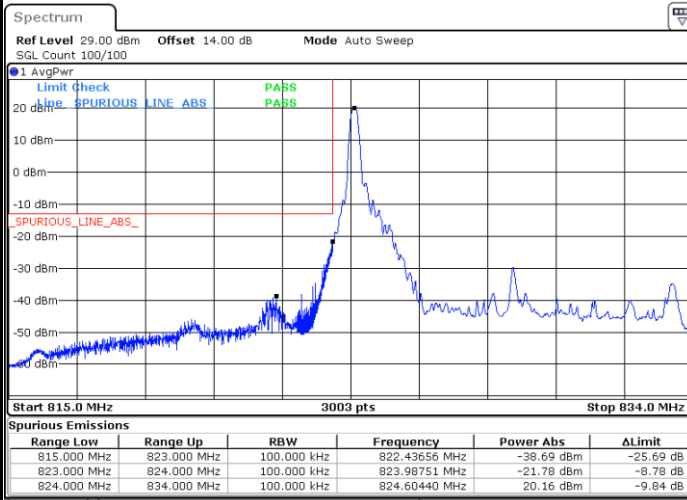


Date: 9.JUL.2021 11:21:46



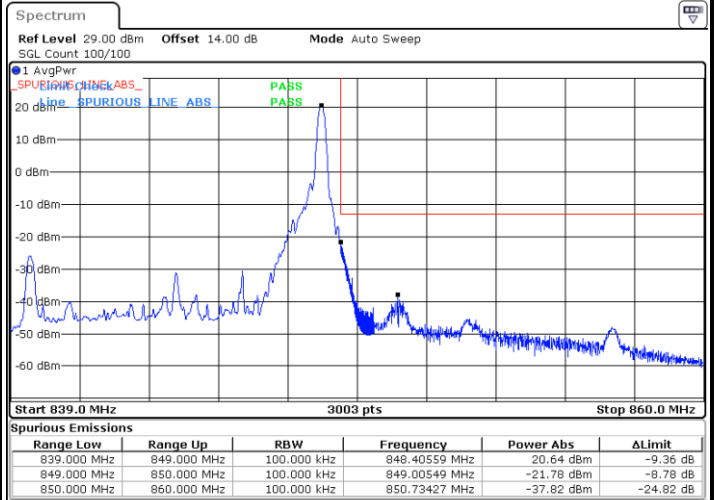
LTE Band 5 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



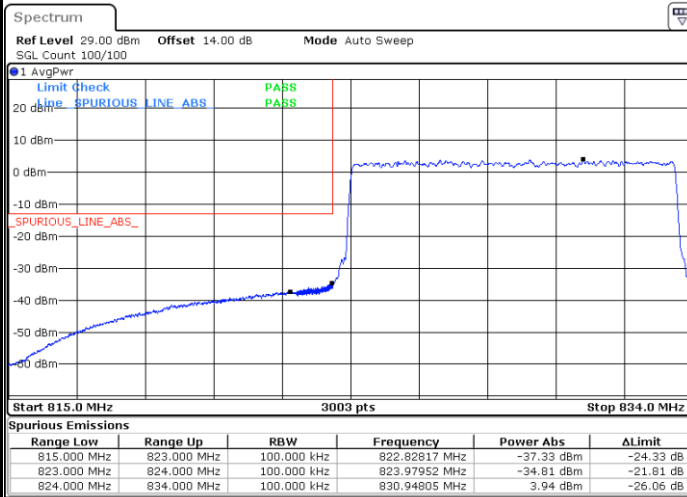
Date: 9.JUL.2021 14:11:44

Highest Band Edge / 1 RB



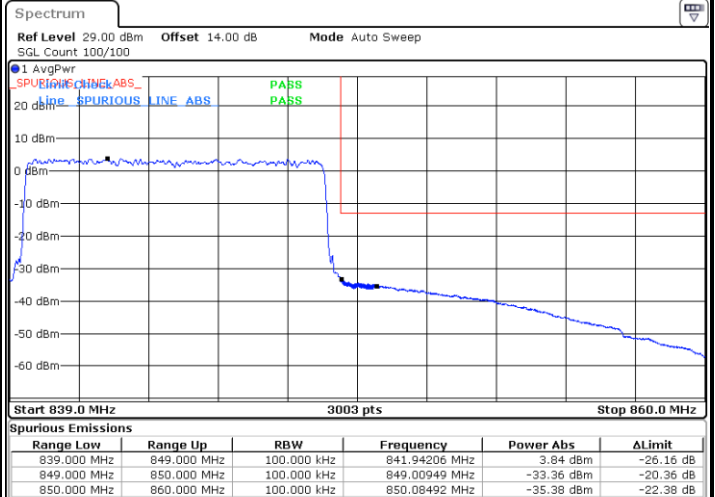
Date: 9.JUL.2021 14:24:47

Lowest Band Edge / Full RB



Date: 9.JUL.2021 11:11:23

Highest Band Edge / Full RB

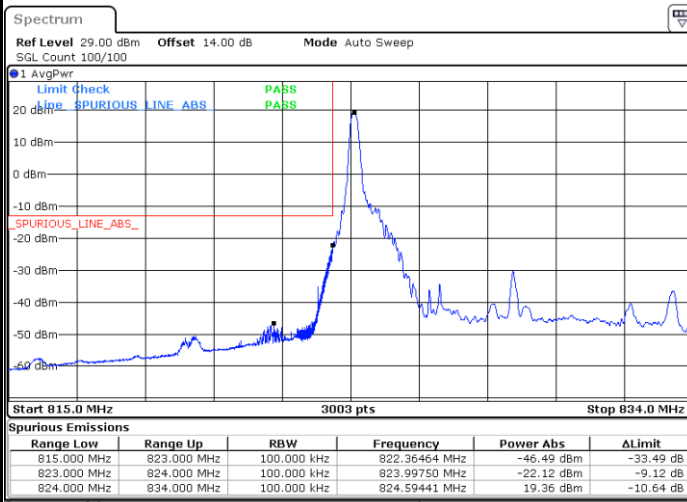


Date: 9.JUL.2021 11:23:25



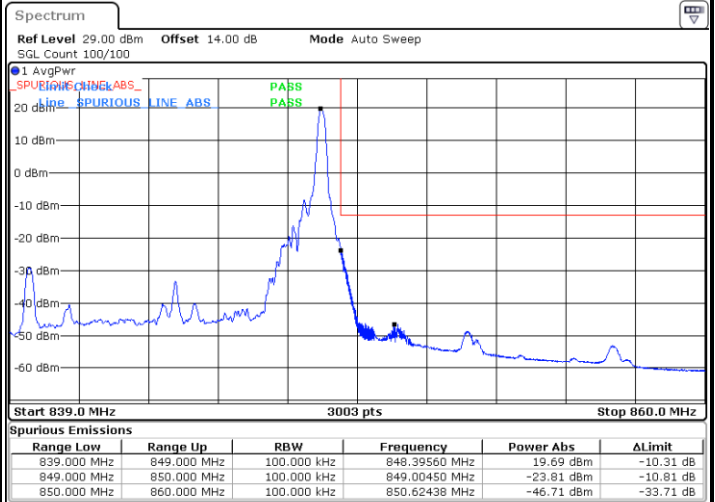
LTE Band 5 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



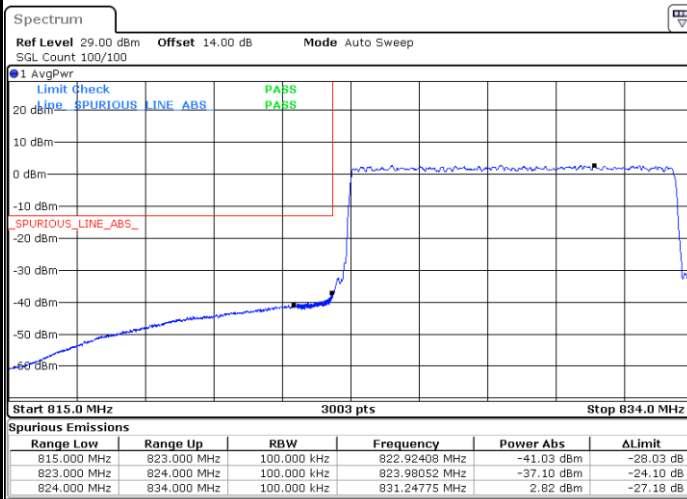
Date: 9.JUL.2021 14:14:20

Highest Band Edge / 1 RB



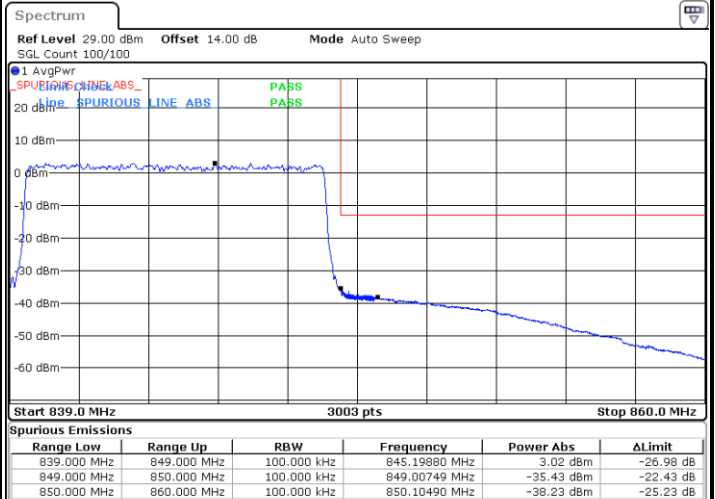
Date: 9.JUL.2021 14:23:19

Lowest Band Edge / Full RB



Date: 9.JUL.2021 14:17:45

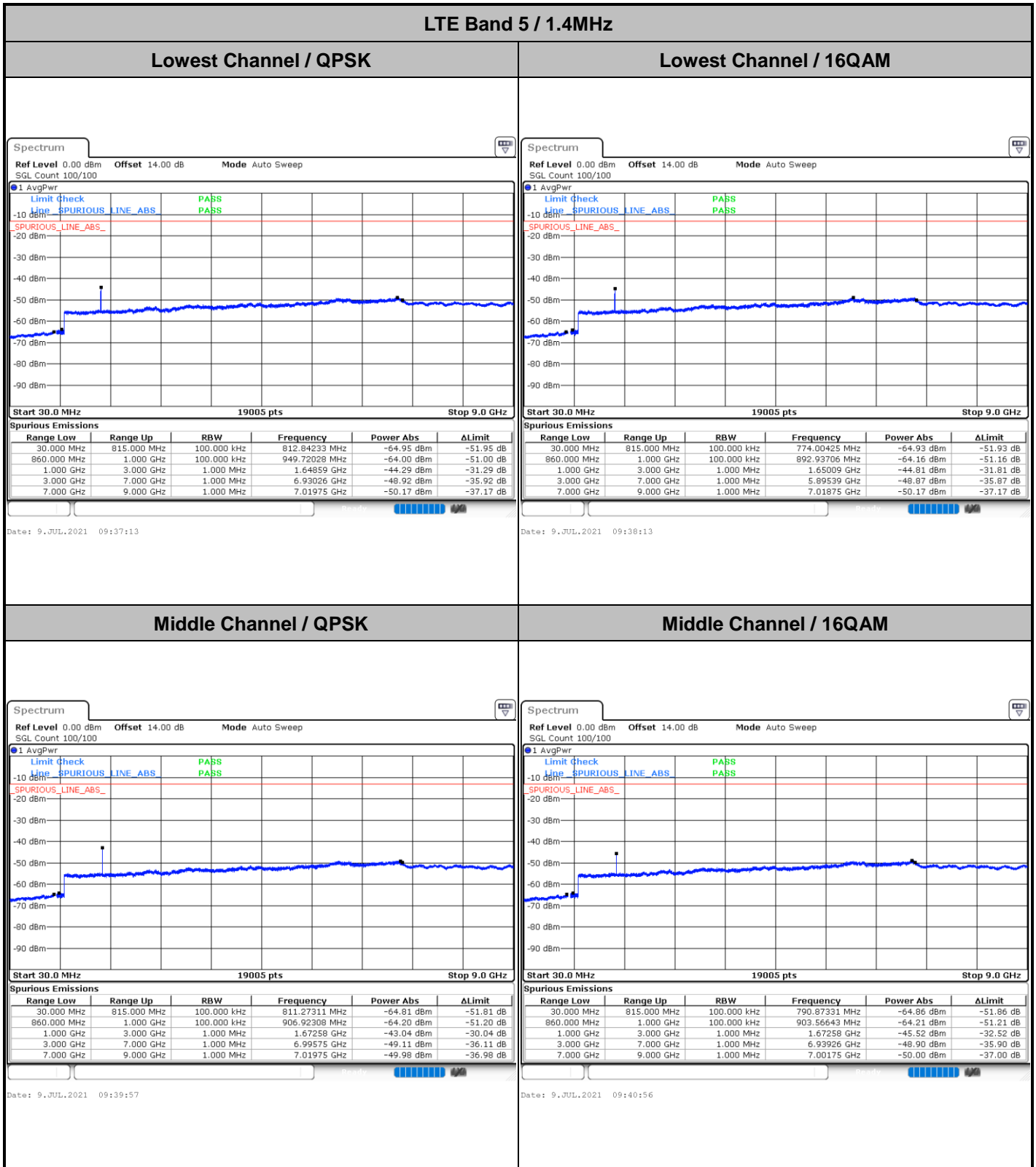
Highest Band Edge / Full RB



Date: 9.JUL.2021 13:36:45



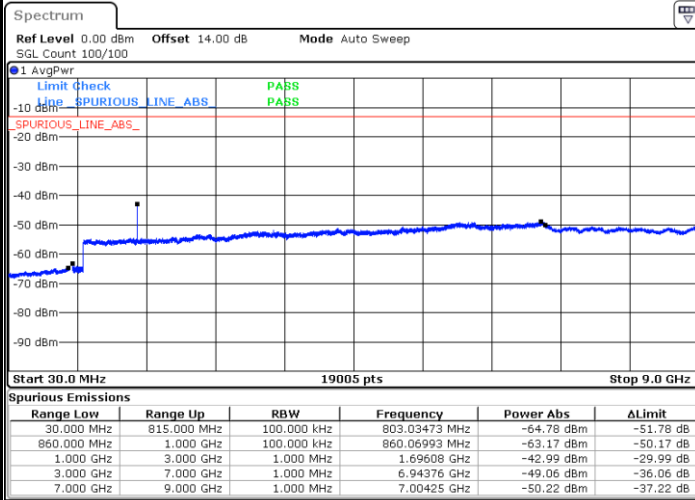
Conducted Spurious Emission





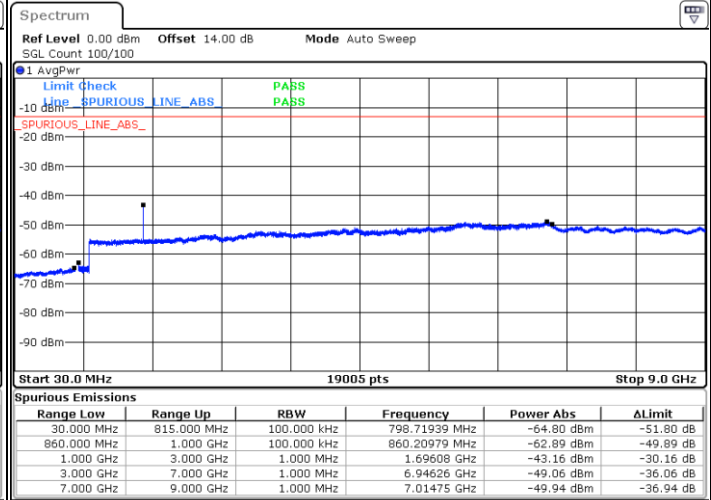
LTE Band 5 / 1.4MHz

Highest Channel / QPSK



Date: 9.JUL.2021 09:49:16

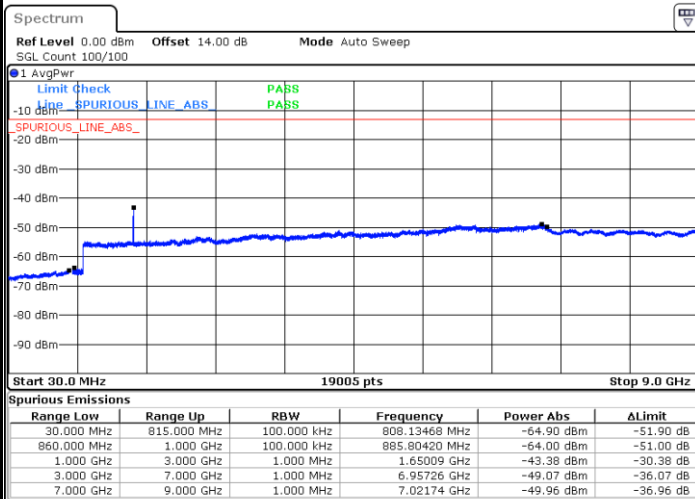
Highest Channel / 16QAM



Date: 9.JUL.2021 09:50:16

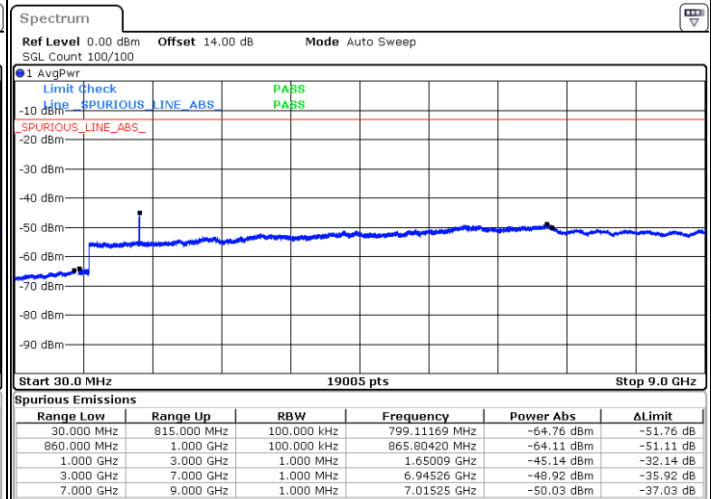
LTE Band 5 / 3MHz

Lowest Channel / QPSK



Date: 9.JUL.2021 10:09:16

Lowest Channel / 16QAM

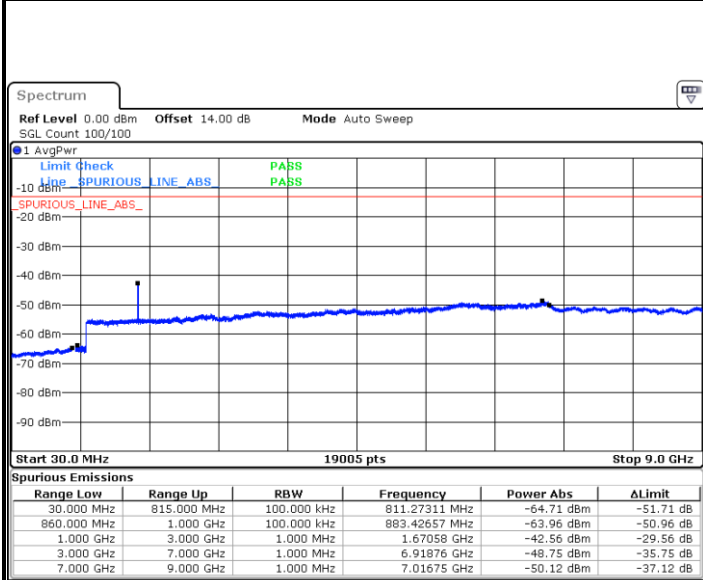


Date: 9.JUL.2021 10:10:16



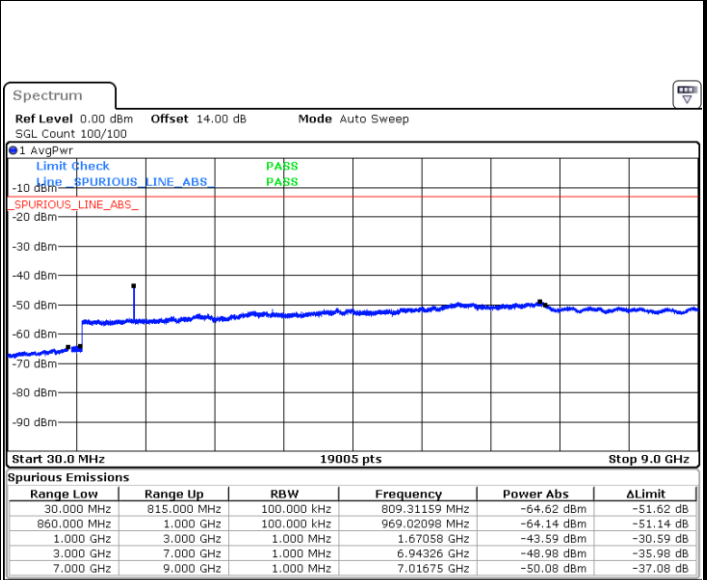
LTE Band 5 / 3MHz

Middle Channel / QPSK



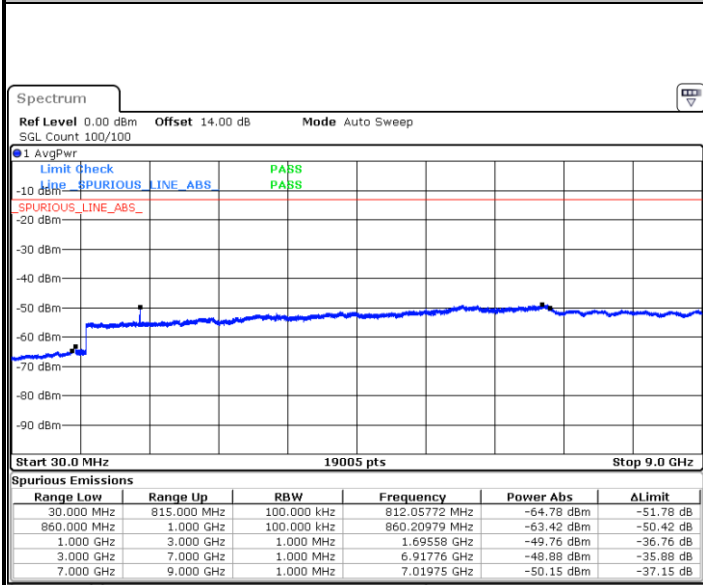
Date: 9.JUL.2021 10:12:00

Middle Channel / 16QAM



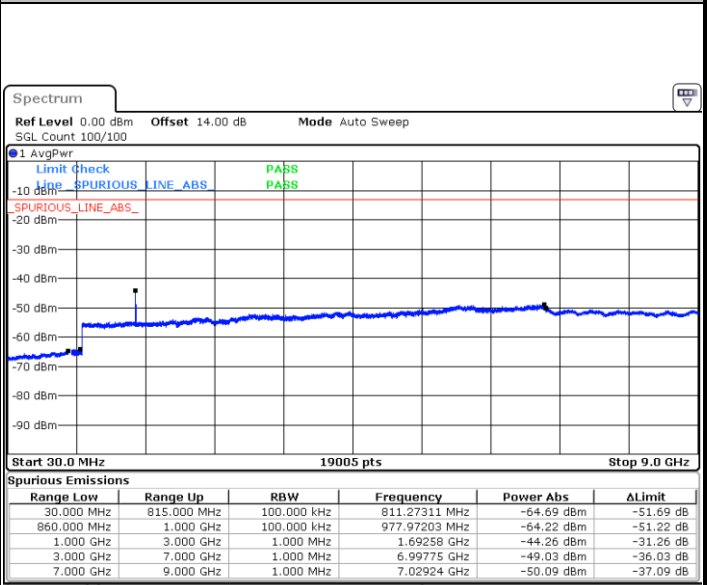
Date: 9.JUL.2021 10:12:59

Highest Channel / QPSK



Date: 9.JUL.2021 10:21:19

Highest Channel / 16QAM



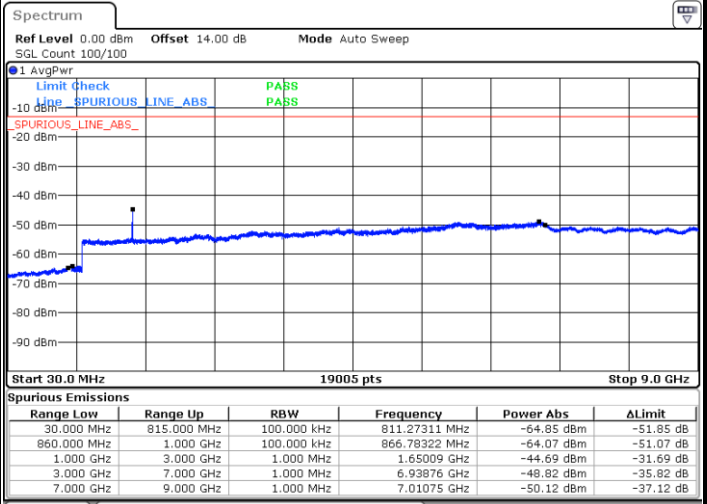
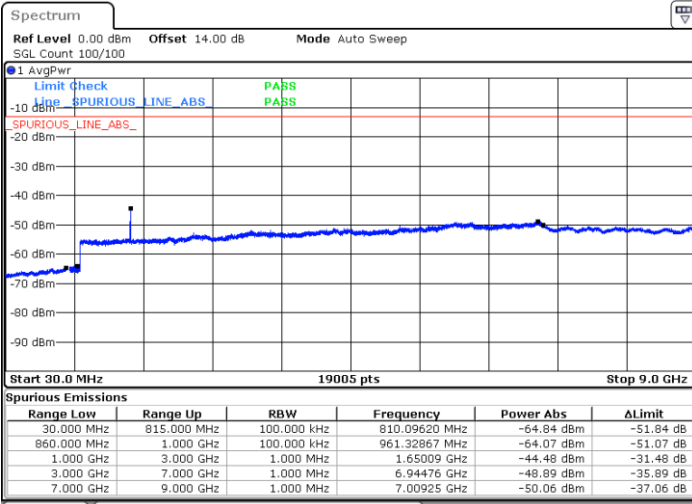
Date: 9.JUL.2021 10:22:18



LTE Band 5 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

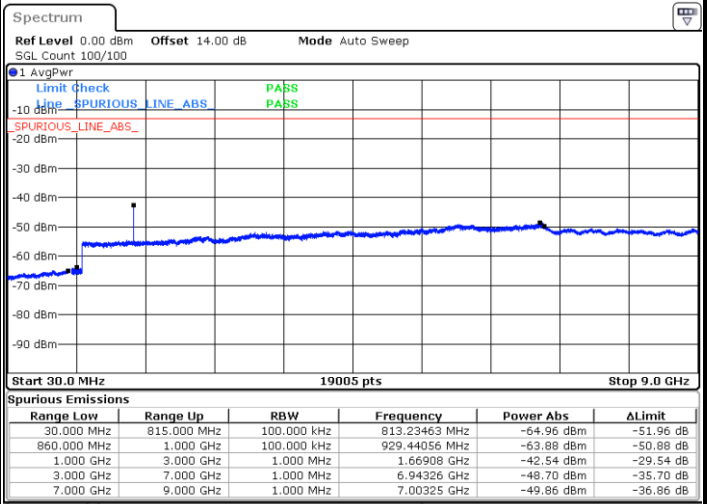
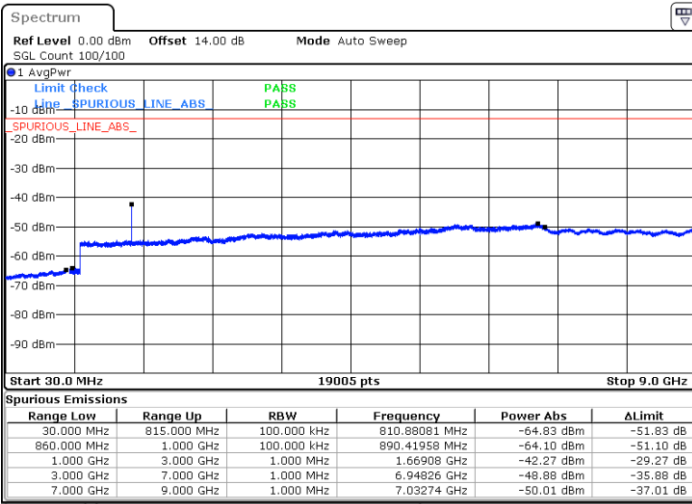


Date: 9.JUL.2021 10:41:19

Date: 9.JUL.2021 10:42:19

Middle Channel / QPSK

Middle Channel / 16QAM



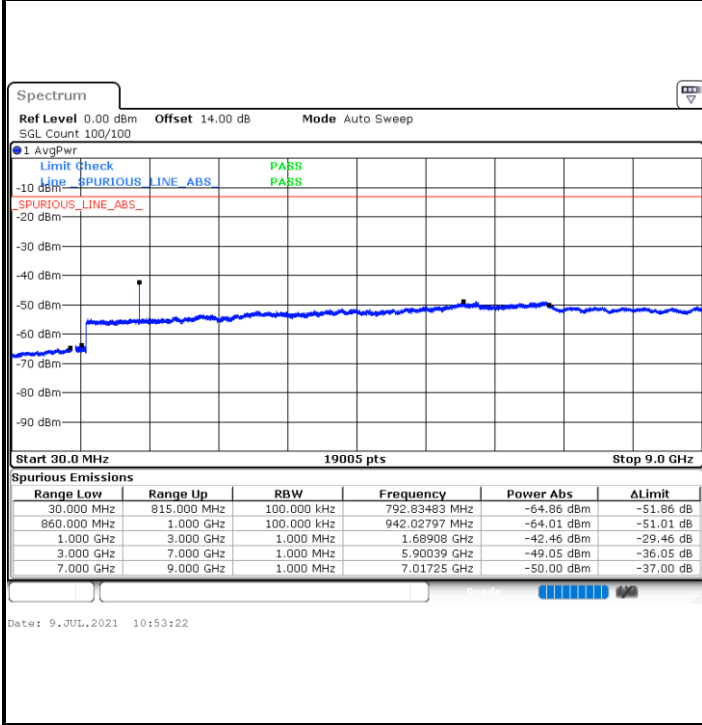
Date: 9.JUL.2021 10:44:03

Date: 9.JUL.2021 10:45:02

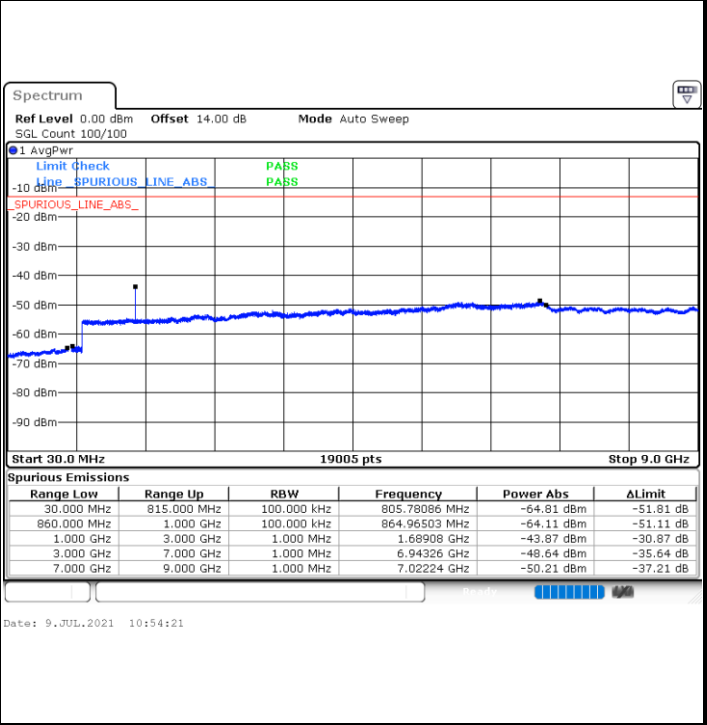


LTE Band 5 / 5MHz

Highest Channel / QPSK

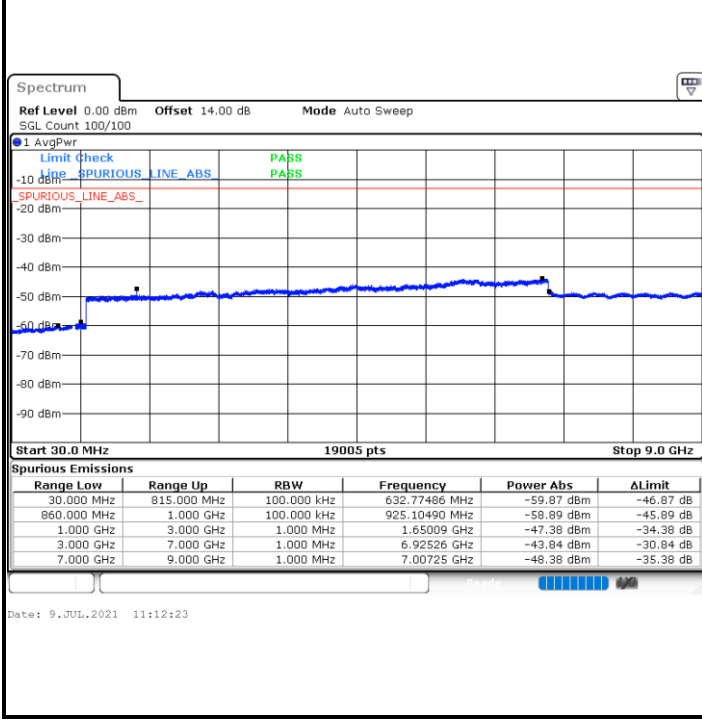


Highest Channel / 16QAM

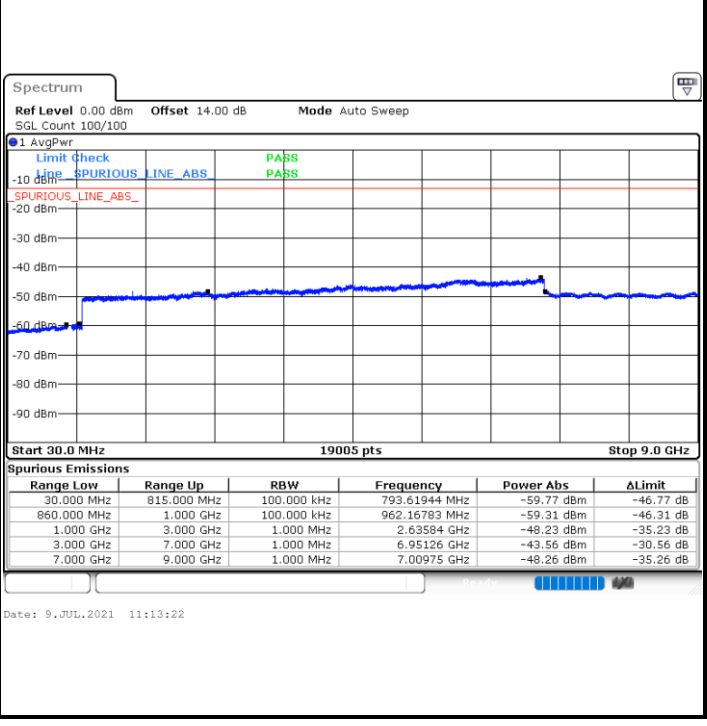


LTE Band 5 / 10MHz

Lowest Channel / QPSK



Lowest Channel / 16QAM

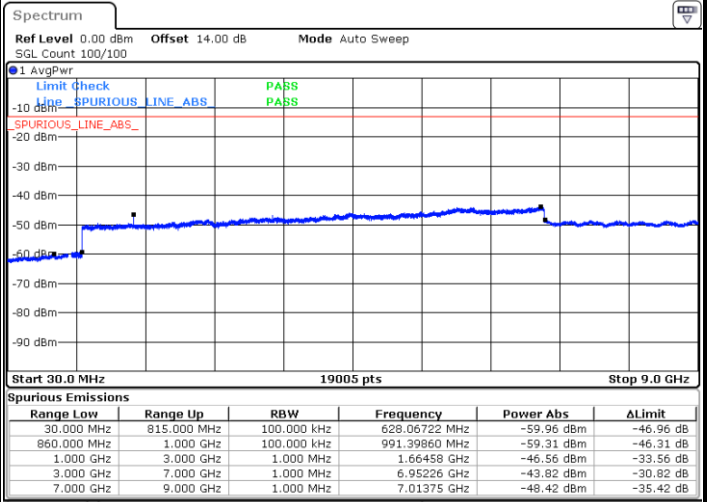
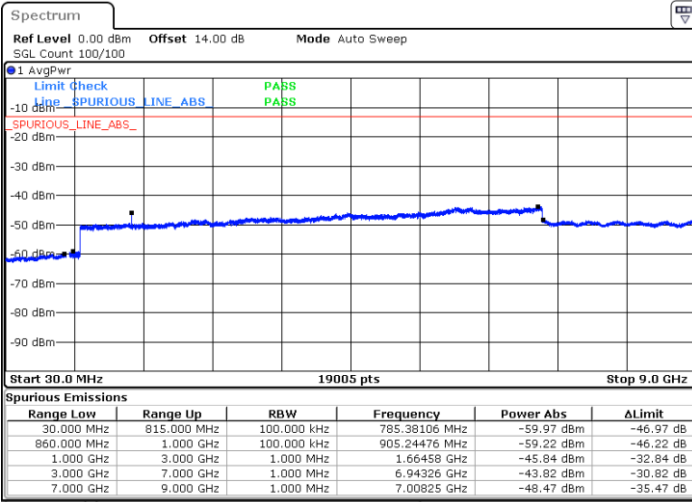




LTE Band 5 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

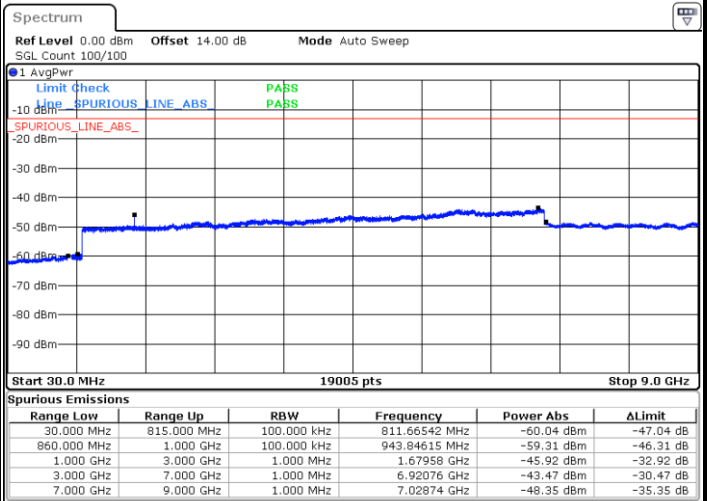
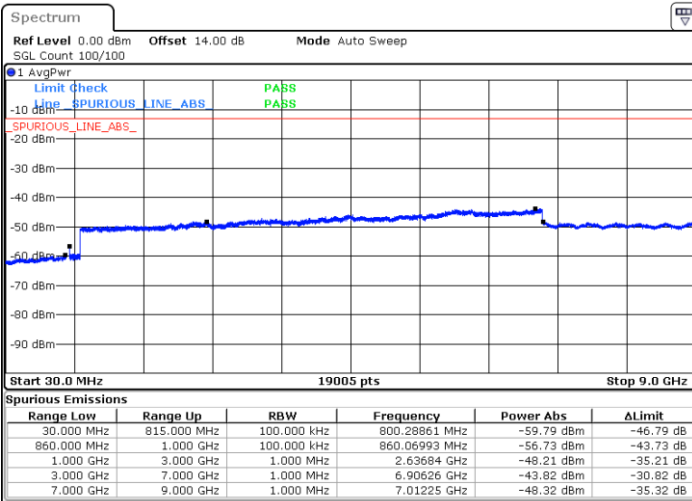


Date: 9.JUL.2021 11:15:06

Date: 9.JUL.2021 11:16:05

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 9.JUL.2021 11:24:25

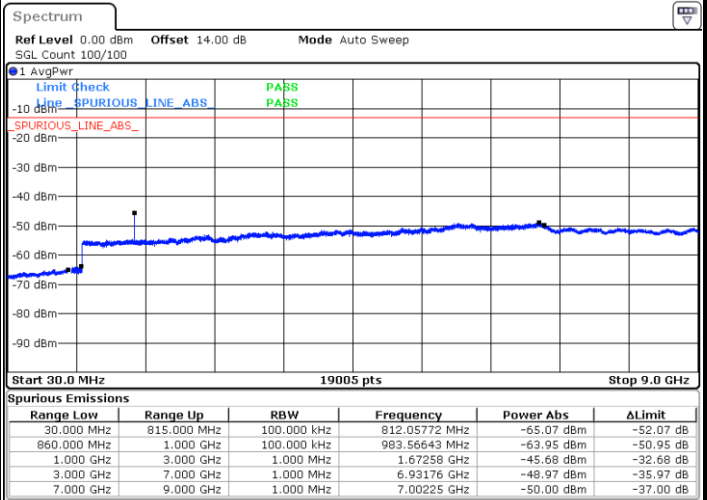
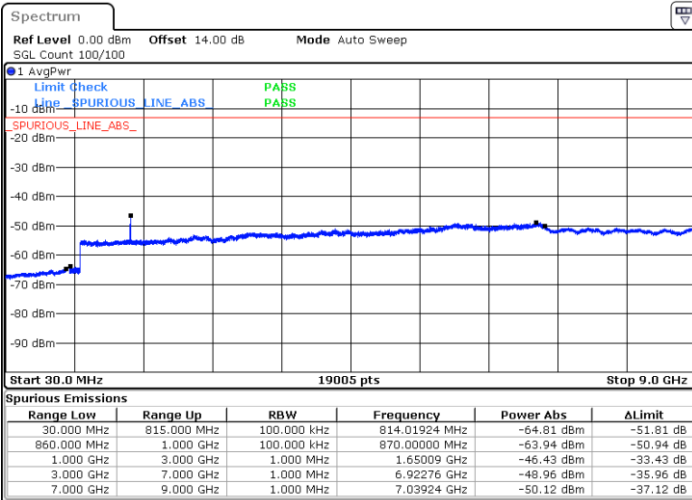
Date: 9.JUL.2021 11:25:24



LTE Band 5 / 1.4MHz

Lowest Channel / 64QAM

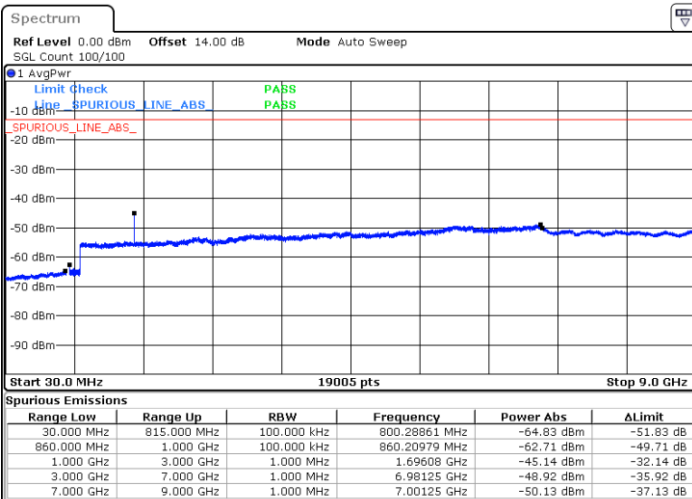
Middle Channel / 64QAM



Date: 9 JUL 2021 09:54:55

Date: 9 JUL 2021 09:56:17

Highest Channel / 64QAM

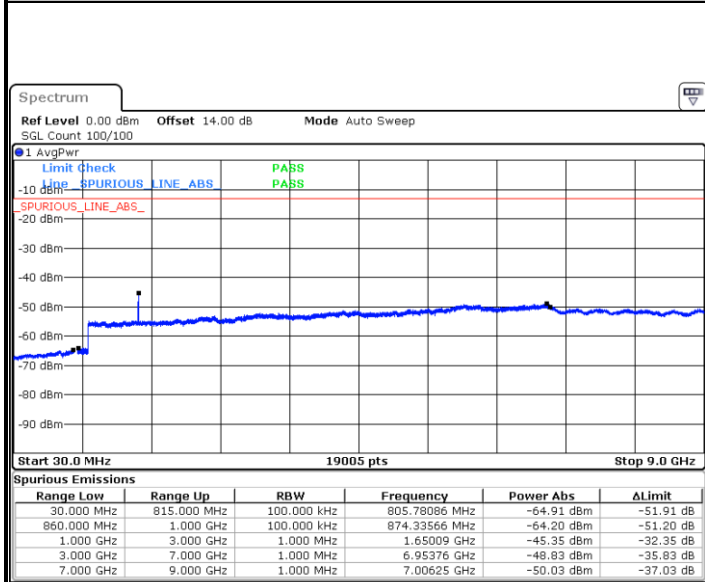


Date: 9 JUL 2021 10:00:57



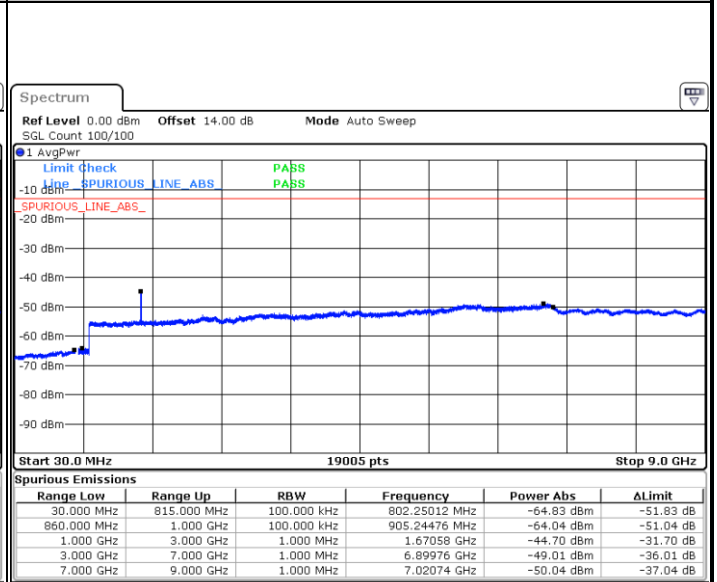
LTE Band 5 / 3MHz

Lowest Channel / 64QAM



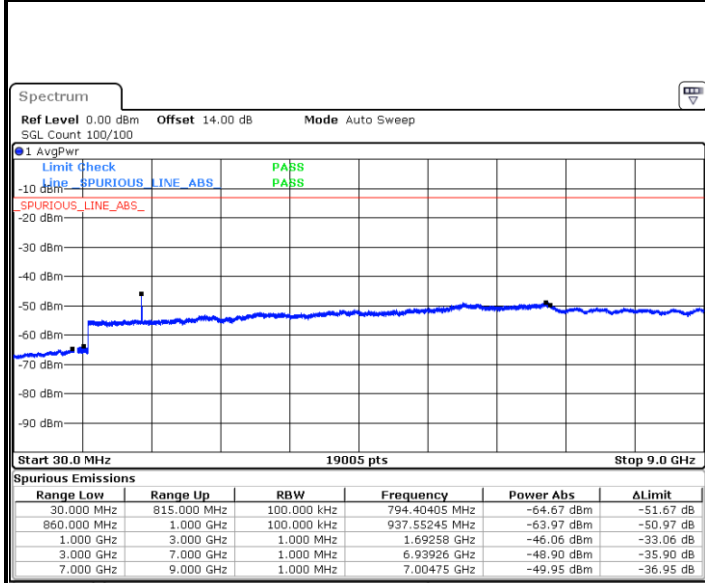
Date: 9.JUL.2021 10:26:58

Middle Channel / 64QAM



Date: 9.JUL.2021 10:28:20

Highest Channel / 64QAM



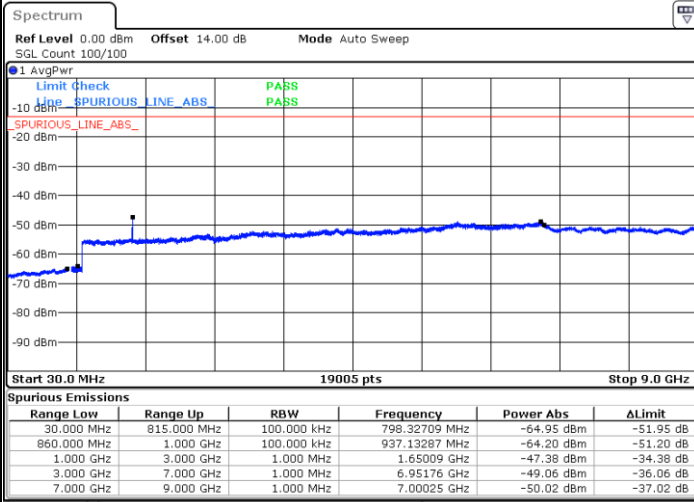
Date: 9.JUL.2021 10:33:00



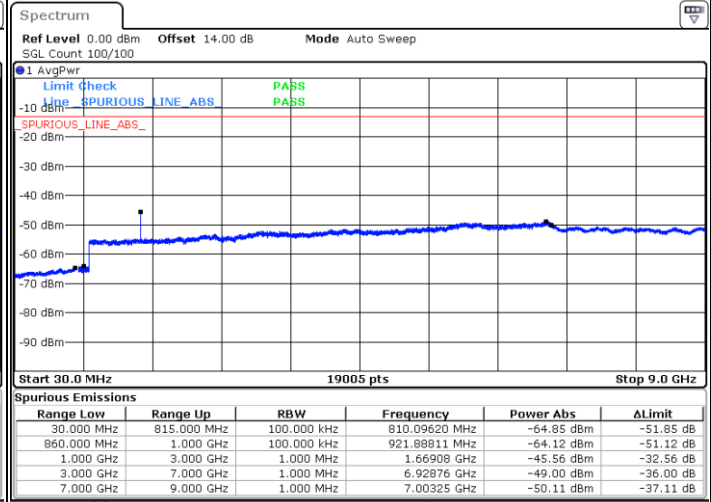
LTE Band 5 / 5MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

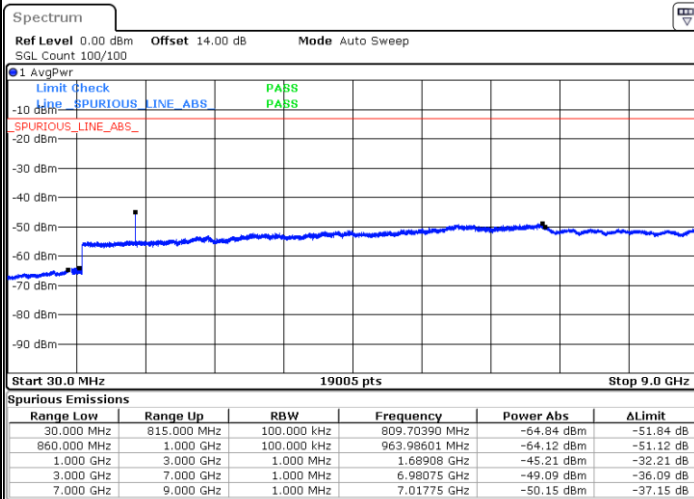


Date: 9.JUL.2021 10:59:01



Date: 9.JUL.2021 11:00:22

Highest Channel / 64QAM



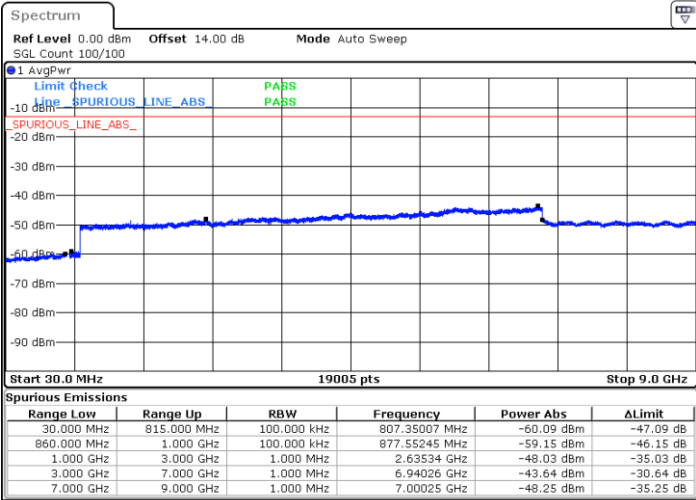
Date: 9.JUL.2021 11:26:24



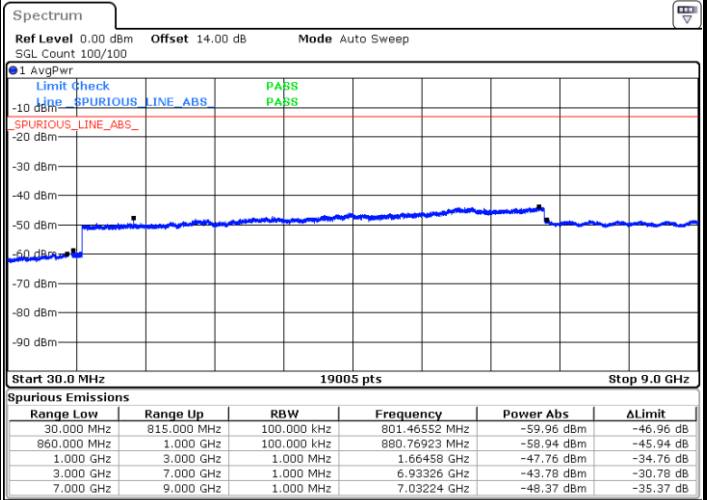
LTE Band 5 / 10MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

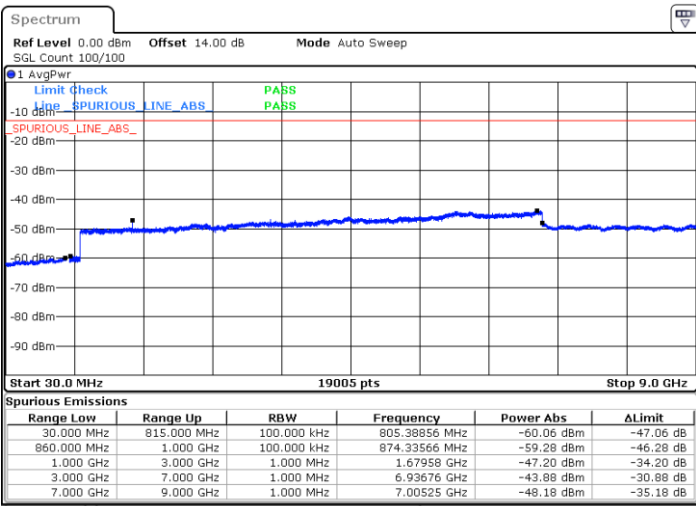


Date: 9.JUL.2021 14:27:25



Date: 9.JUL.2021 13:33:05

Highest Channel / 64QAM



Date: 9.JUL.2021 13:37:45



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	0.0012	PASS
40	Normal Voltage	0.0004	
30	Normal Voltage	0.0001	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0012	
0	Normal Voltage	0.0008	
-10	Normal Voltage	0.0002	
-20	Normal Voltage	0.0012	
-30	Normal Voltage	0.0005	
20	Maximum Voltage	0.0001	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0004	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 13

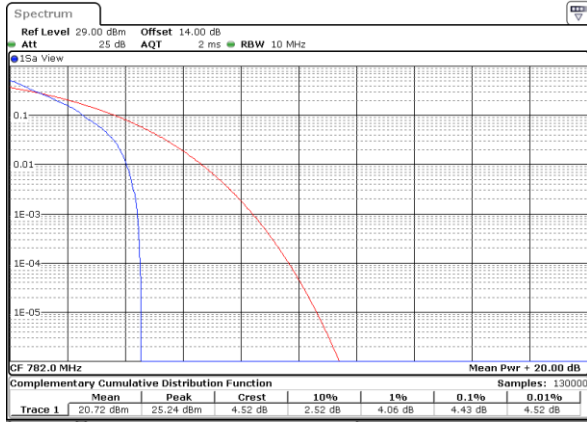
Peak-to-Average Ratio

Mode	LTE Band 13 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	-	-	-	-	PASS
Middle CH	4.43	5.30	5.30	6.06	
Highest CH	-	-	-	-	
Mode	LTE Band 13 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	-	-	-	-	PASS
Middle CH	6.06	6.32	-	-	
Highest CH	-	-	-	-	



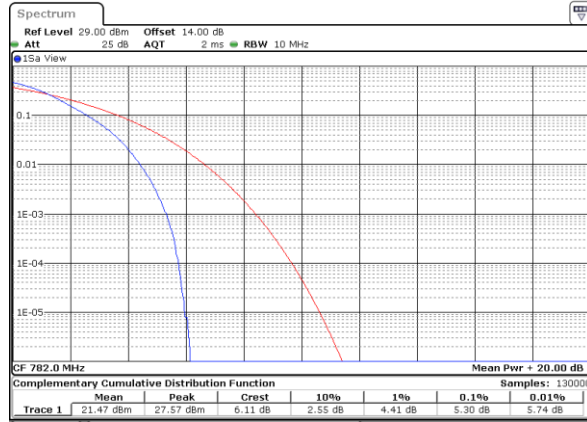
LTE Band 13 / 10MHz / QPSK

Middle Channel / 1RB



Date: 12_JUL_2021 15:32:42

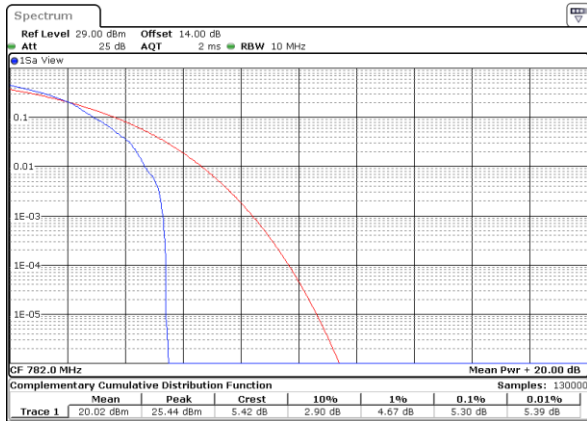
Middle Channel / Full RB



Date: 12_JUL_2021 15:33:03

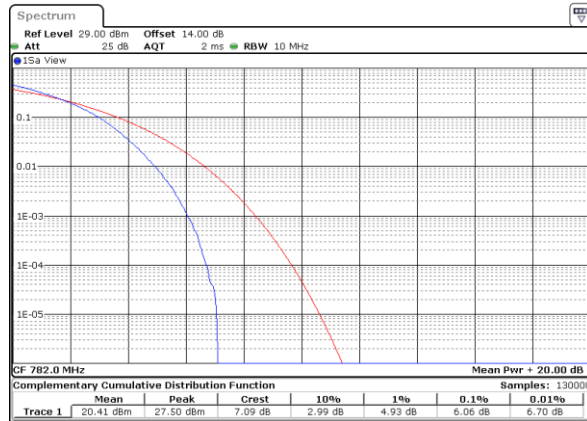
LTE Band 13 / 10MHz / 16QAM

Middle Channel / 1RB



Date: 12_JUL_2021 15:32:17

Middle Channel / Full RB



Date: 12_JUL_2021 15:32:29

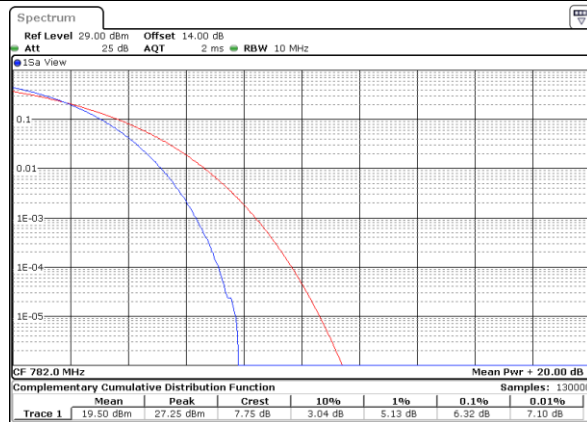
LTE Band 13 / 10MHz / 64QAM

Middle Channel / 1RB



Date: 12_JUL_2021 15:31:53

Middle Channel / Full RB



Date: 12_JUL_2021 15:32:05



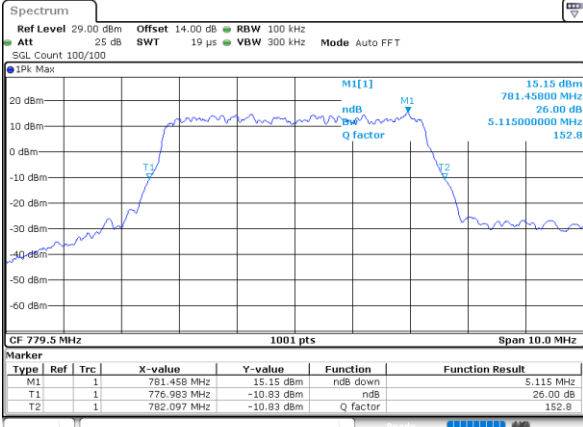
26dB Bandwidth

Mode	LTE Band 13 : 26dB BW(MHz)											
BW					5MHz		10MHz					
Mod.					QPSK	16QAM	QPSK	16QAM				
Lowest CH					5.12	4.98	-	-				
Middle CH					5.06	5.09	9.87	10.03				
Highest CH					5.21	5.05	-	-				
Mode	LTE Band 13 : 26dB BW(MHz)											
BW					5MHz		10MHz					
Mod.					64QAM		64QAM					
Lowest CH					4.85	-	-	-				
Middle CH					5.01	-	10.01	-				
Highest CH					4.80	-	-	-				



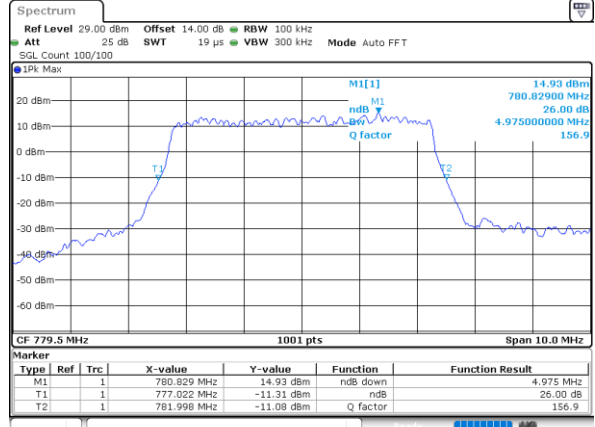
LTE Band 13

Lowest Channel / 5MHz / QPSK



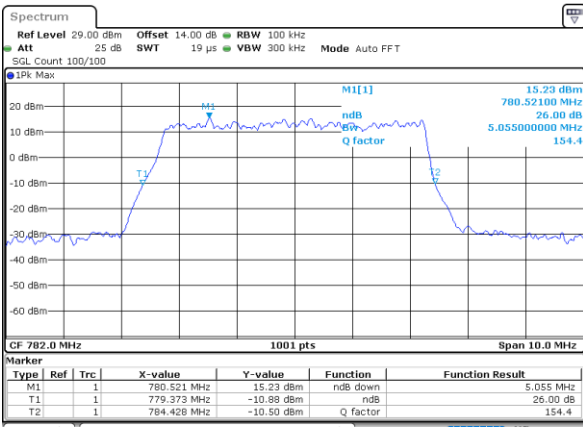
Date: 12_JUL_2021 14:37:14

Lowest Channel / 5MHz / 16QAM



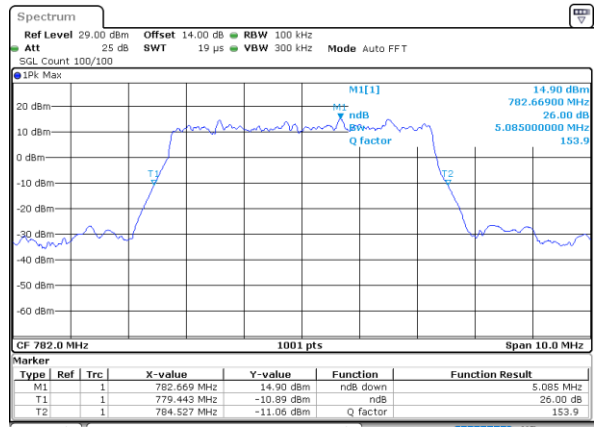
Date: 12_JUL_2021 14:37:33

Middle Channel / 5MHz / QPSK



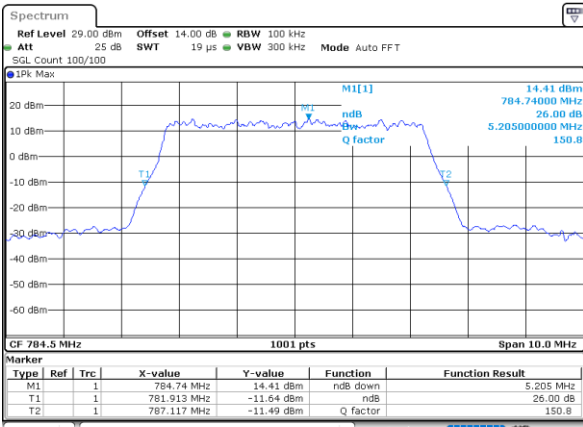
Date: 12_JUL_2021 14:48:28

Middle Channel / 5MHz / 16QAM



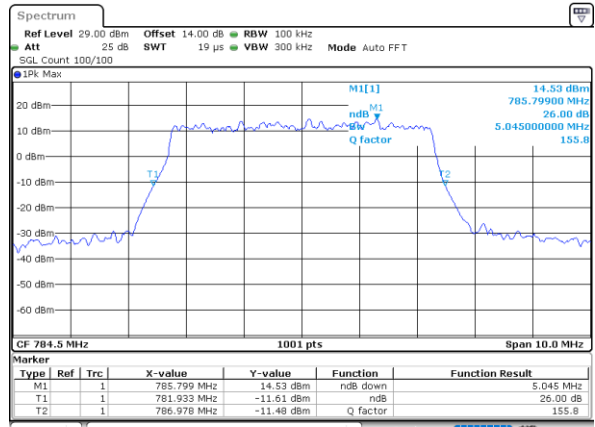
Date: 12_JUL_2021 14:48:39

Highest Channel / 5MHz / QPSK



Date: 12_JUL_2021 14:49:45

Highest Channel / 5MHz / 16QAM

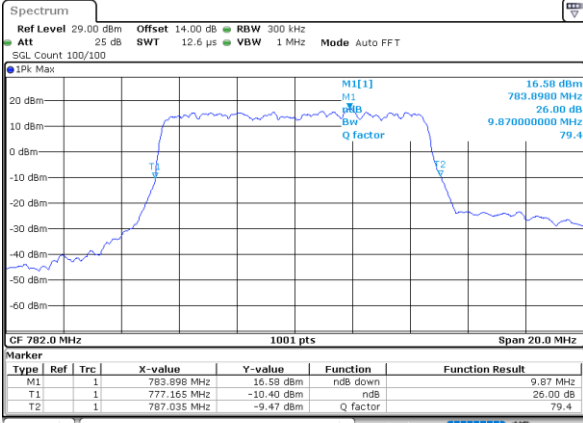


Date: 12_JUL_2021 14:49:34



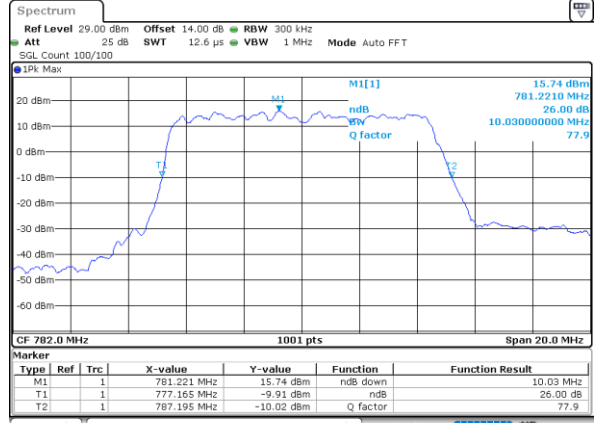
LTE Band 13

Middle Channel / 10MHz / QPSK



Date: 12_JUL_2021 15:09:52

Middle Channel / 10MHz / 16QAM

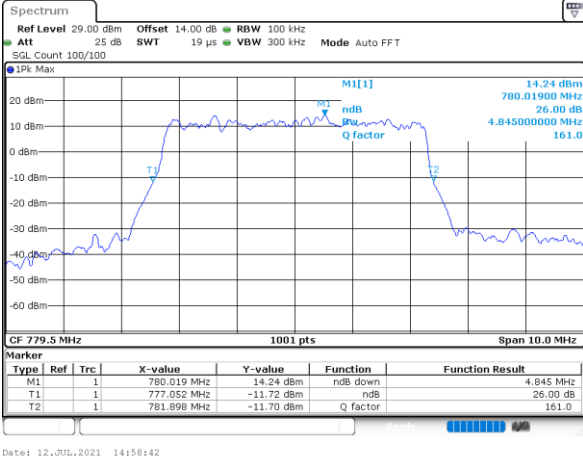


Date: 12_JUL_2021 15:09:40

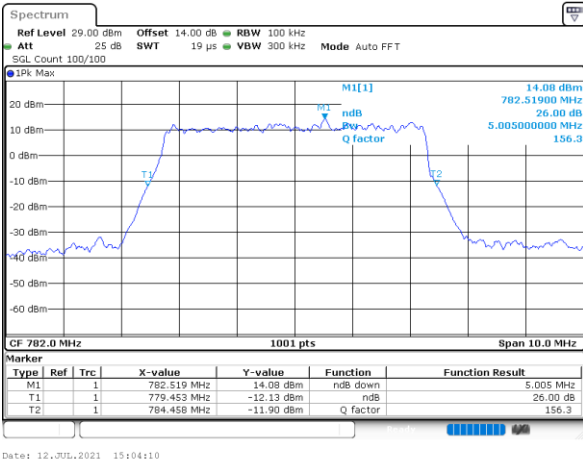


LTE Band 13

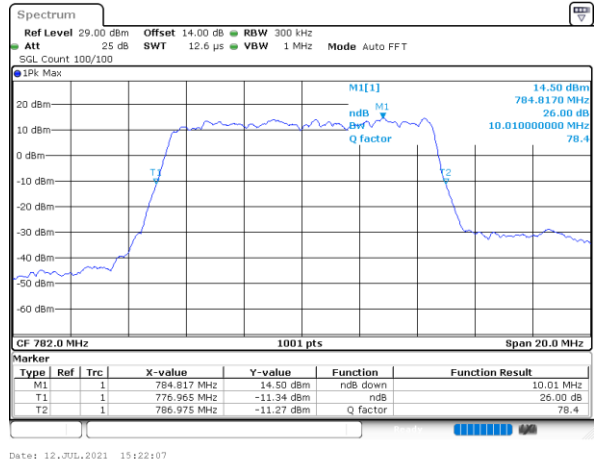
Lowest Channel / 5MHz / 64QAM



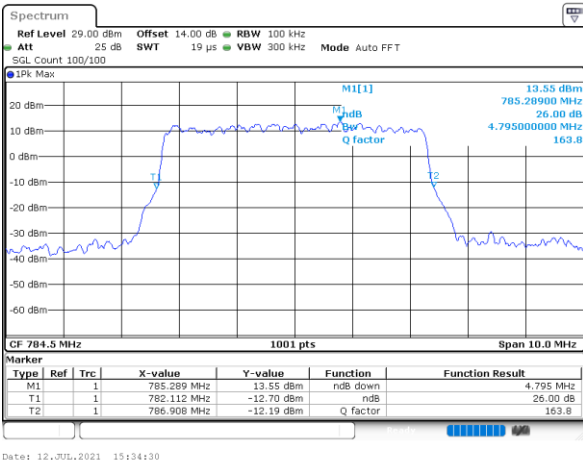
Middle Channel / 5MHz / 64QAM



Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM





Occupied Bandwidth

Mode	LTE Band 13 : 99%OBW(MHz)											
BW					5MHz		10MHz					
Mod.					QPSK	16QAM	QPSK	16QAM				
Lowest CH					4.49	4.48	-	-				
Middle CH					4.50	4.48	9.05	9.01				
Highest CH					4.47	4.50	-	-				
Mode	LTE Band 13 : 99%OBW(MHz)											
BW					5MHz		10MHz					
Mod.					64QAM		64QAM					
Lowest CH					4.50	-	-	-				
Middle CH					4.50	-	9.01	-				
Highest CH					4.53	-	-	-				