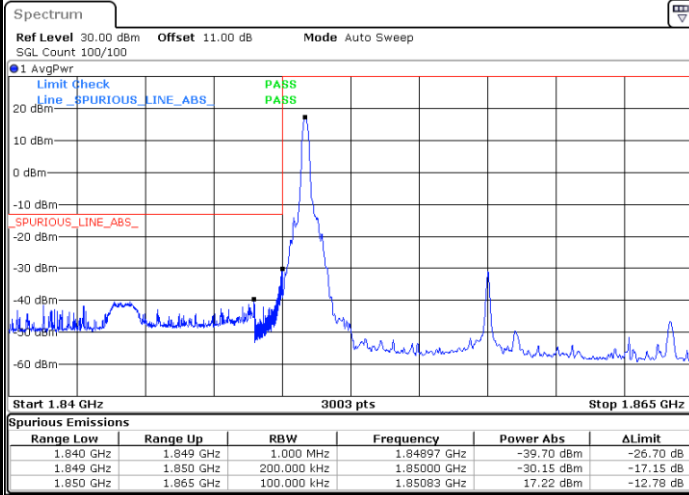




LTE Band 2 / 15MHz / 64QAM

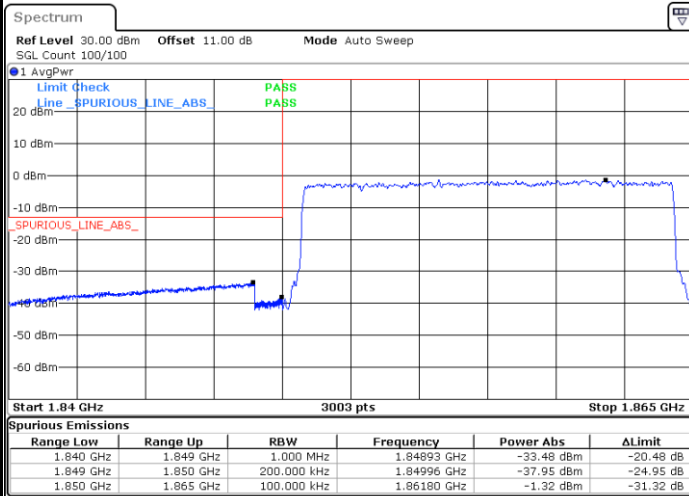
Lowest Band Edge / 1 RB



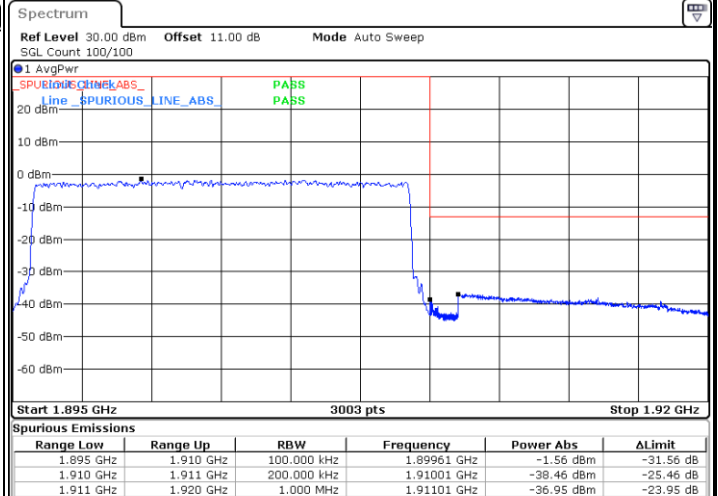
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



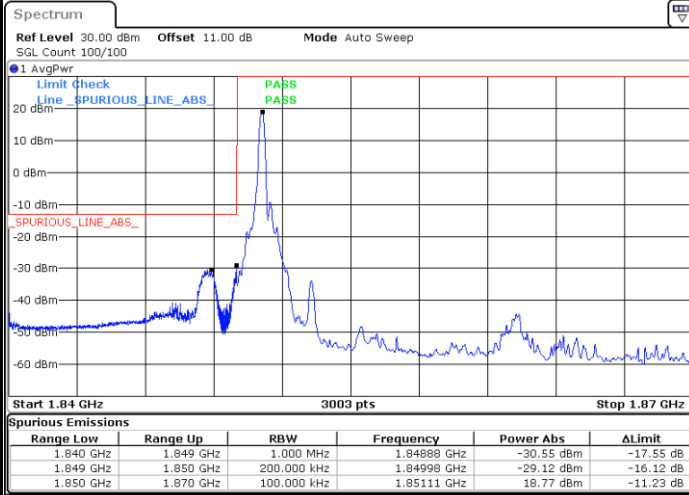
Highest Band Edge / Full RB



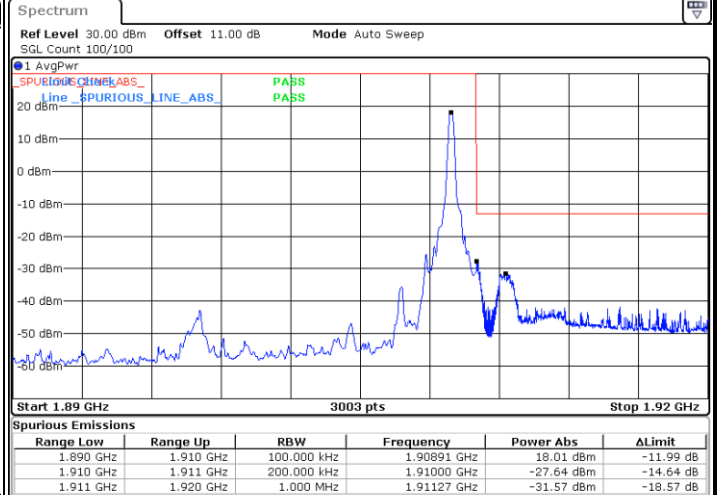


LTE Band 2 / 20MHz / QPSK

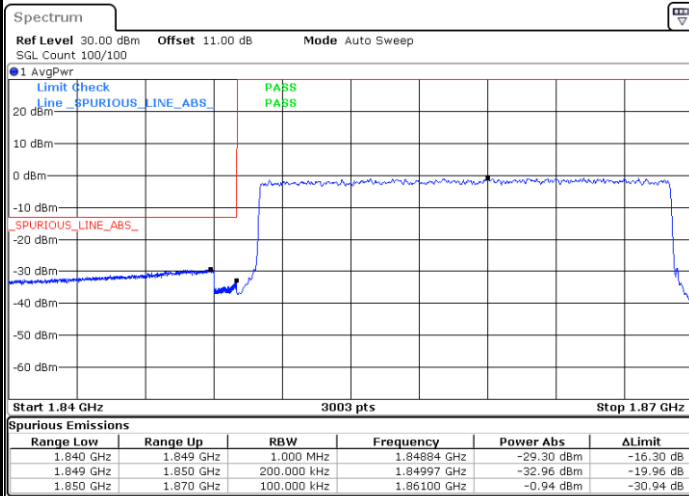
Lowest Band Edge / 1 RB



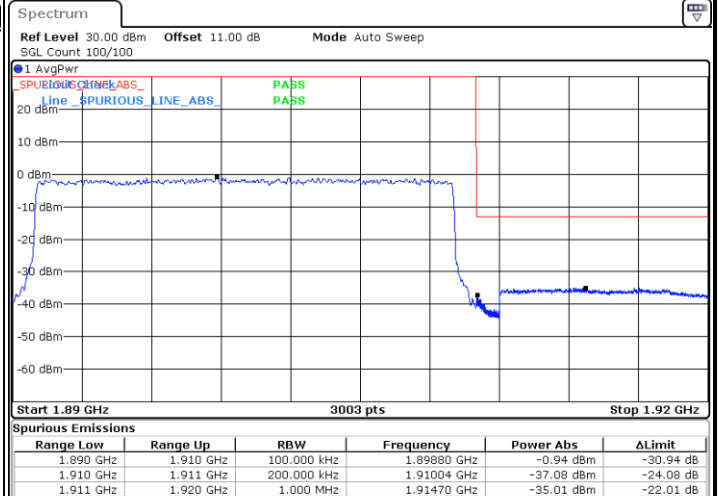
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



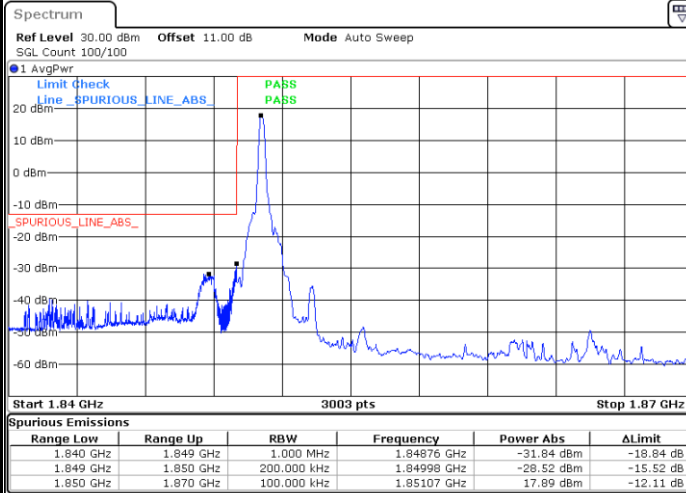
Highest Band Edge / Full RB





LTE Band 2 / 20MHz / 16QAM

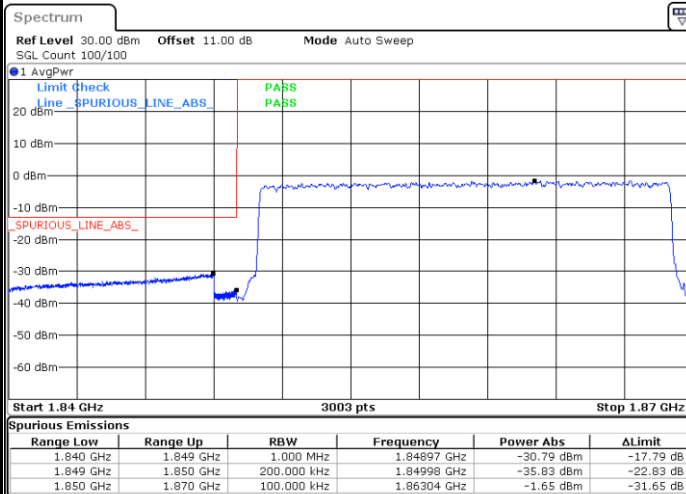
Lowest Band Edge / 1 RB



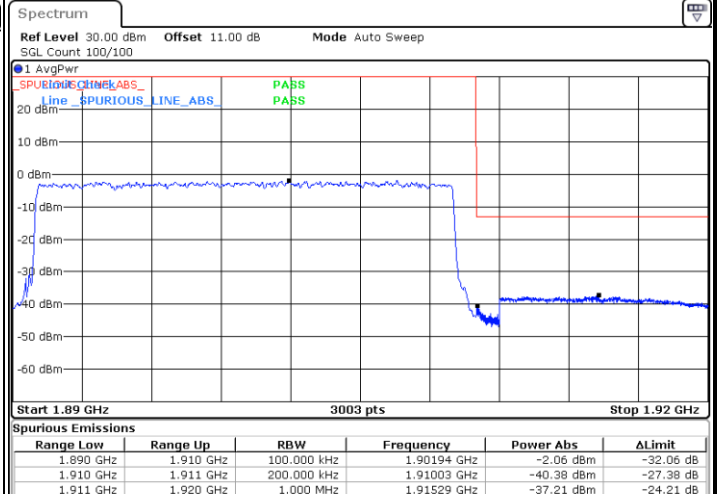
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



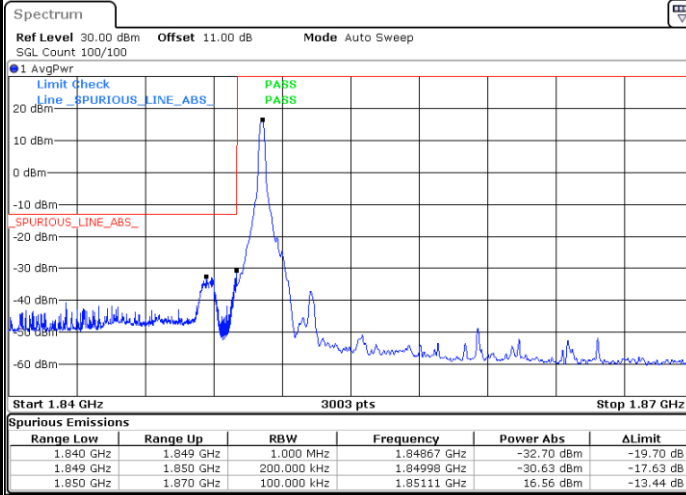
Highest Band Edge / Full RB



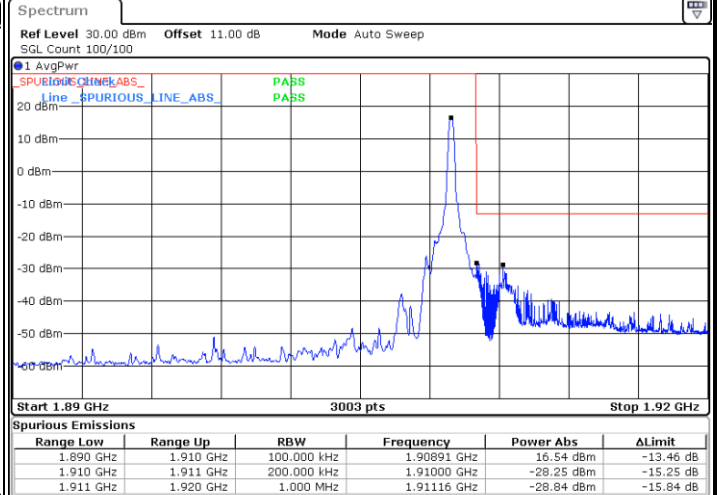


LTE Band 2 / 20MHz / 64QAM

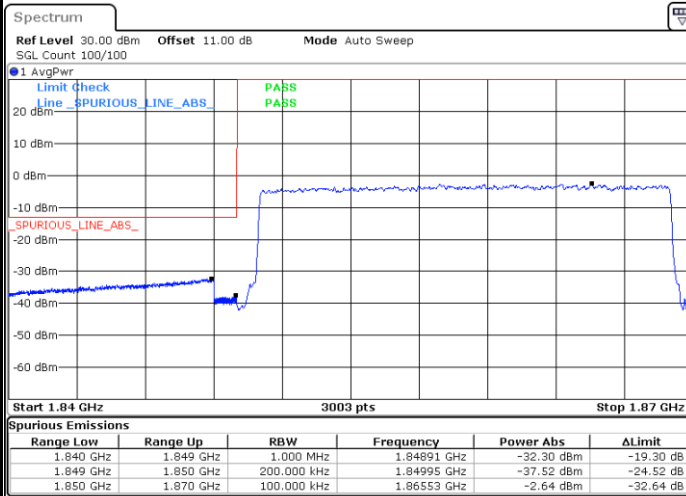
Lowest Band Edge / 1 RB



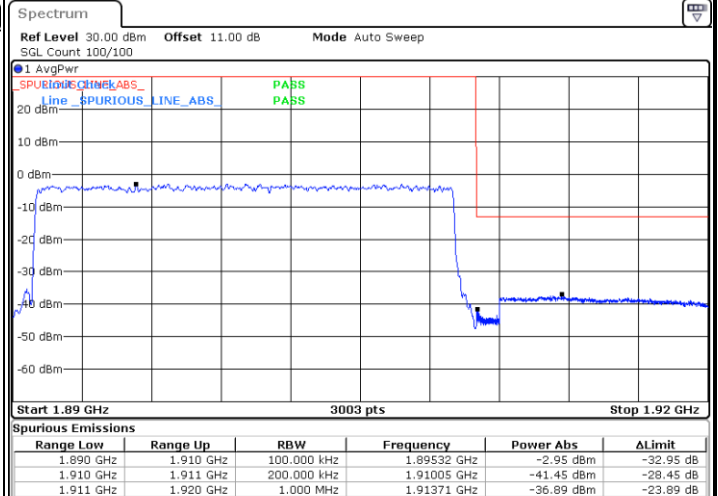
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

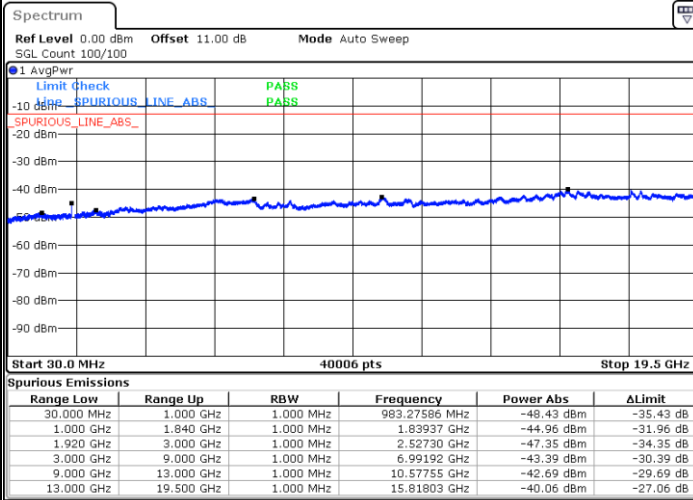




Conducted Spurious Emission

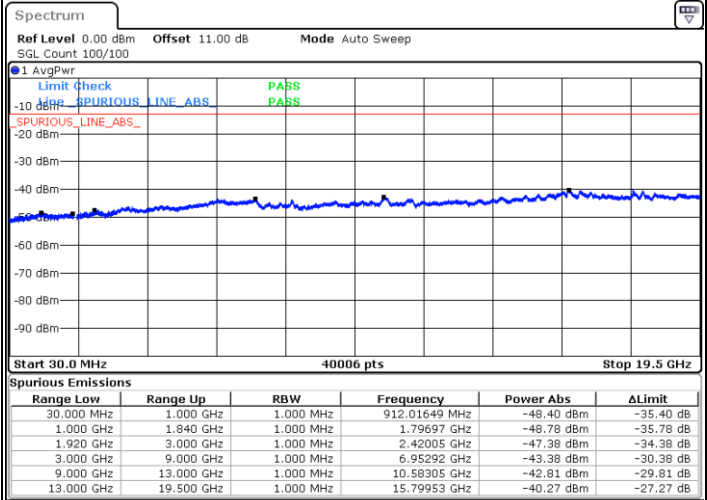
LTE Band 2 / 1.4MHz

Lowest Channel / QPSK



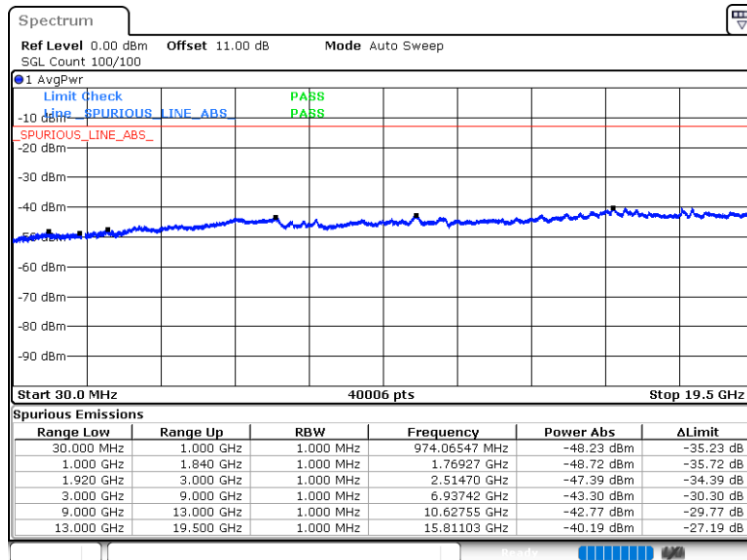
Date: 18.MAY.2021 09:04:19

Middle Channel / QPSK



Date: 18.MAY.2021 09:06:42

Highest Channel / QPSK

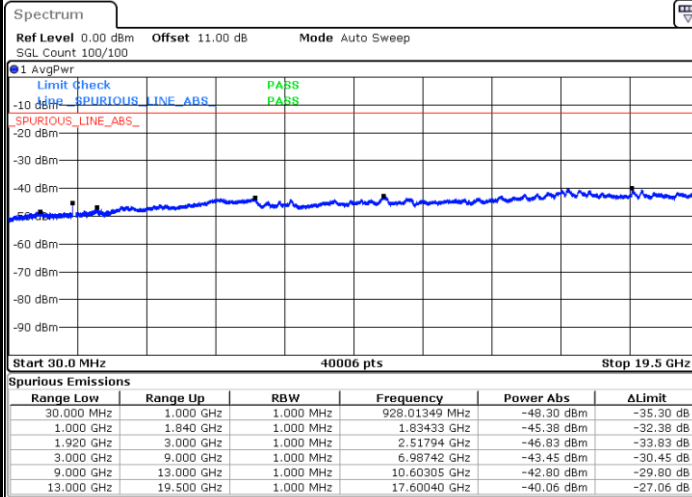


Date: 18.MAY.2021 09:09:22



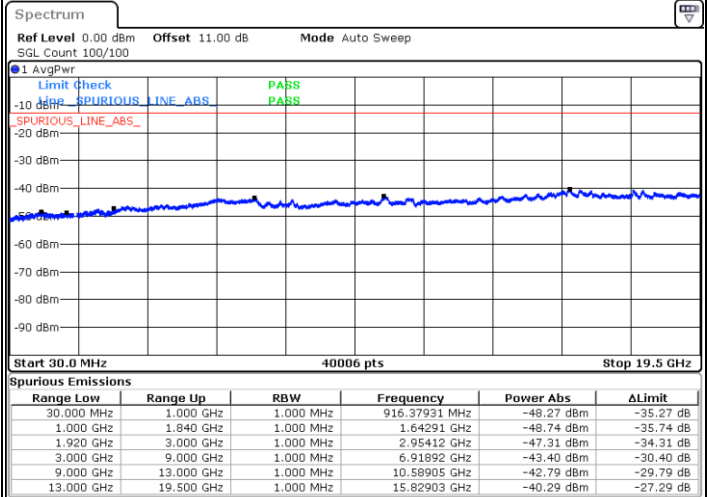
LTE Band 2 / 3MHz

Lowest Channel / QPSK



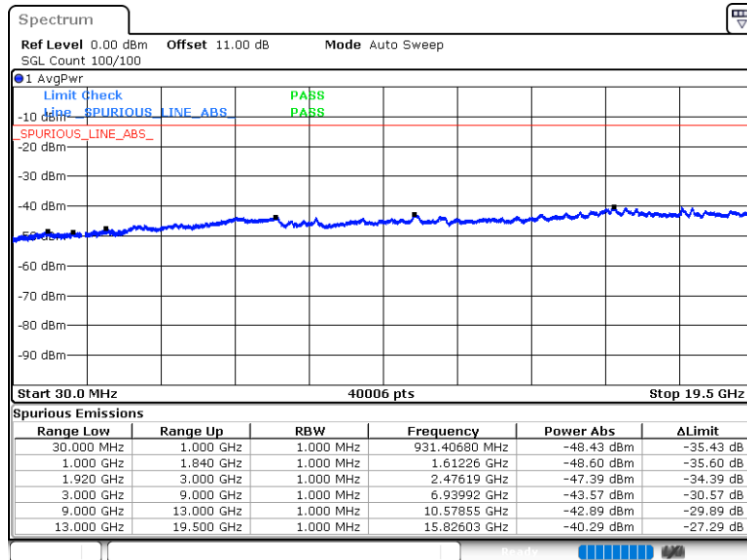
Date: 18.MAY.2021 09:12:03

Middle Channel / QPSK



Date: 18.MAY.2021 09:14:25

Highest Channel / QPSK

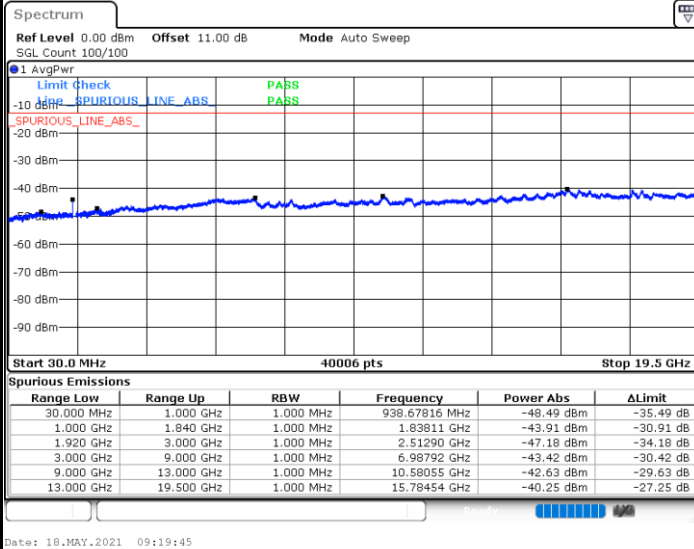


Date: 18.MAY.2021 09:17:06

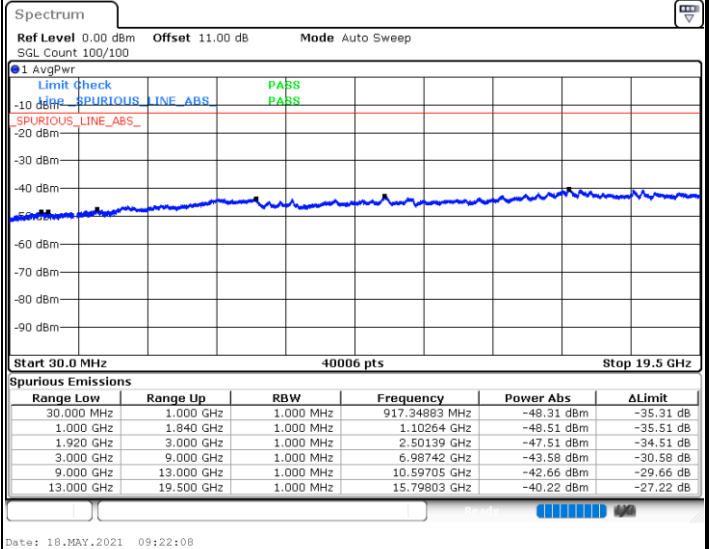


LTE Band 2 / 5MHz

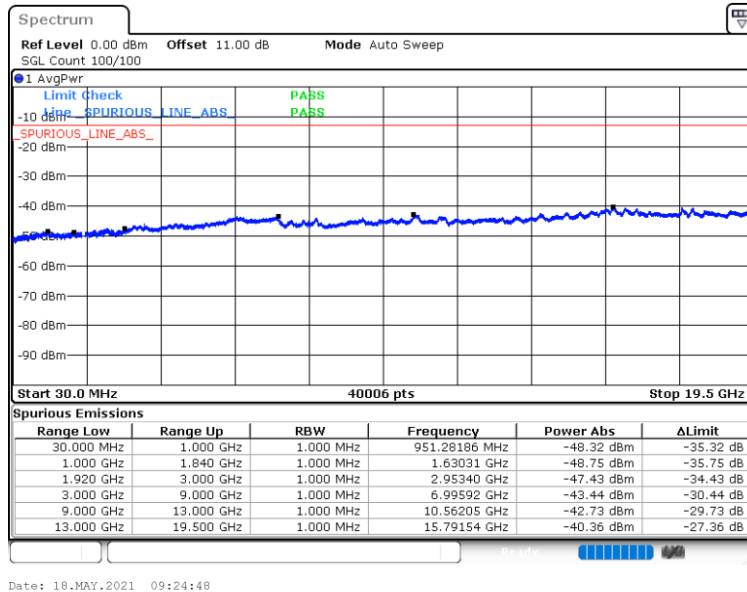
Lowest Channel / QPSK



Middle Channel / QPSK



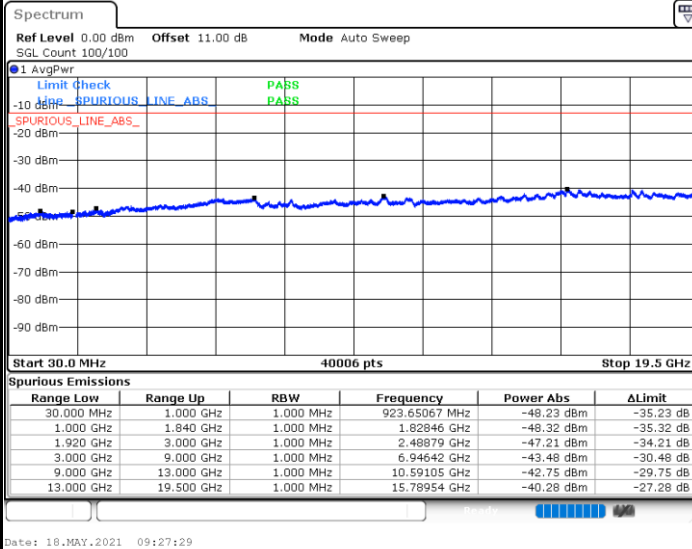
Highest Channel / QPSK



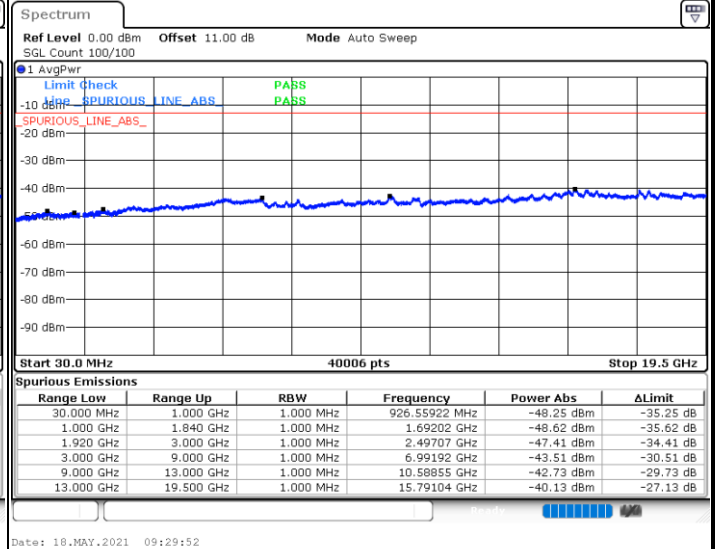


LTE Band 2 / 10MHz

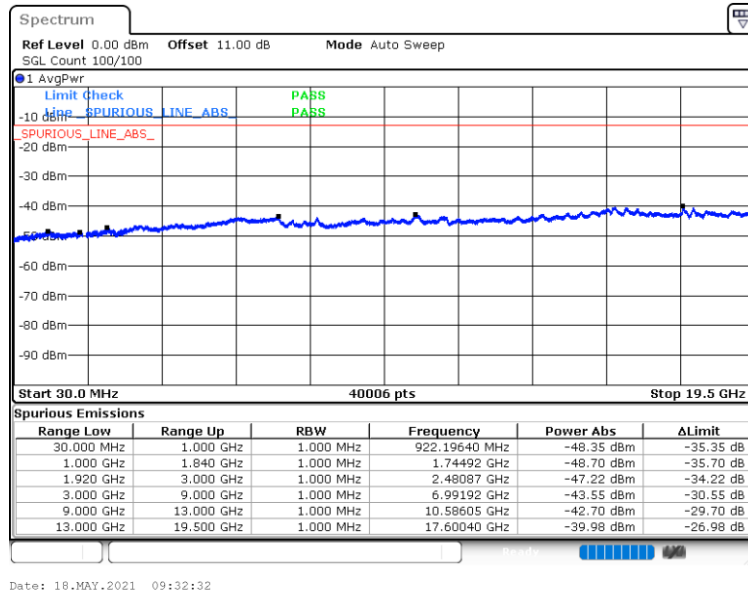
Lowest Channel / QPSK



Middle Channel / QPSK



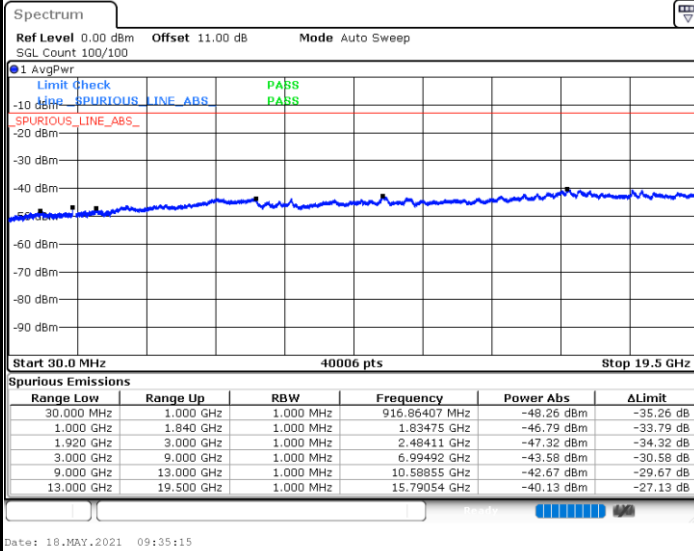
Highest Channel / QPSK



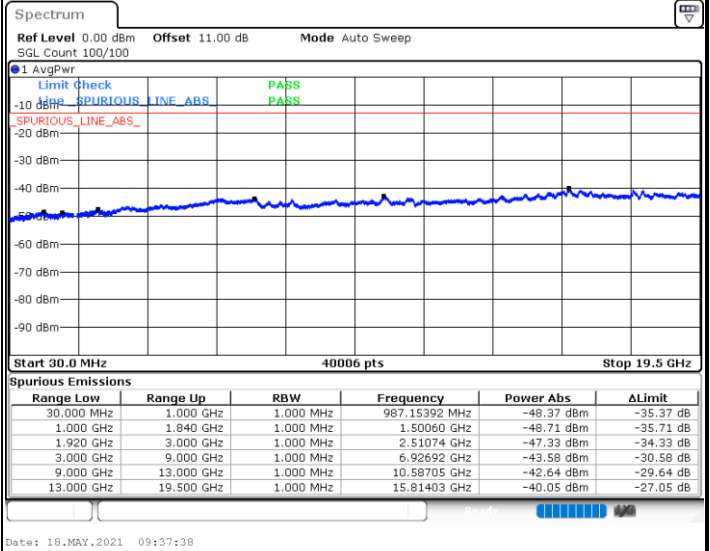


LTE Band 2 / 15MHz

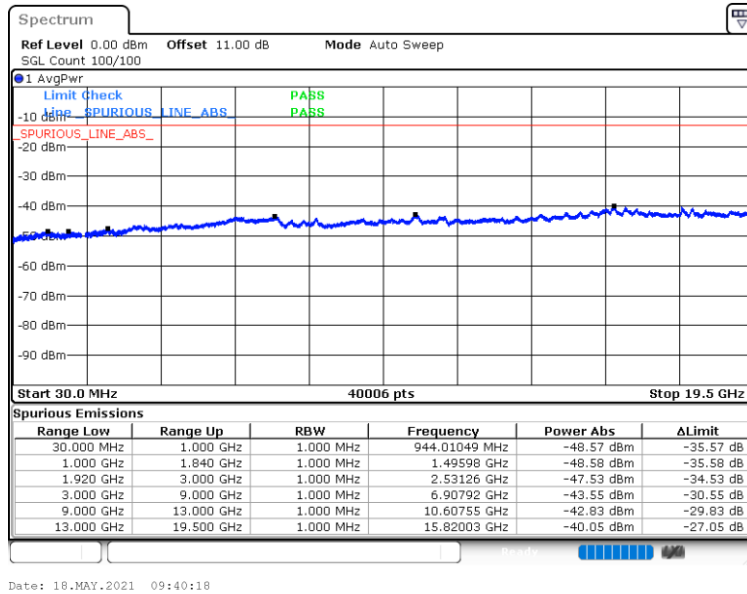
Lowest Channel / QPSK



Middle Channel / QPSK



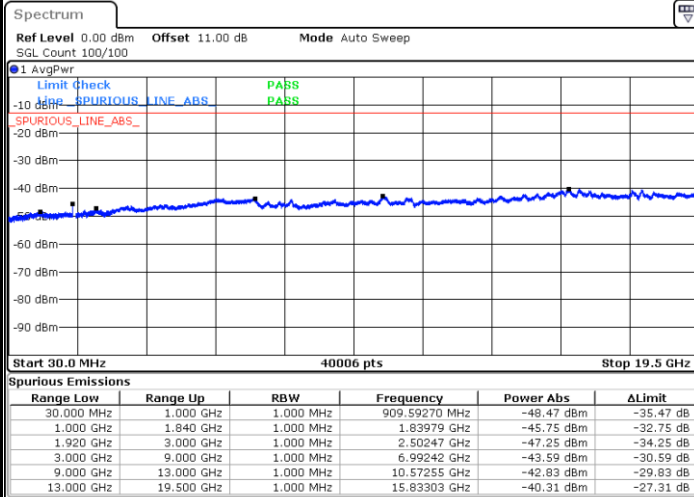
Highest Channel / QPSK





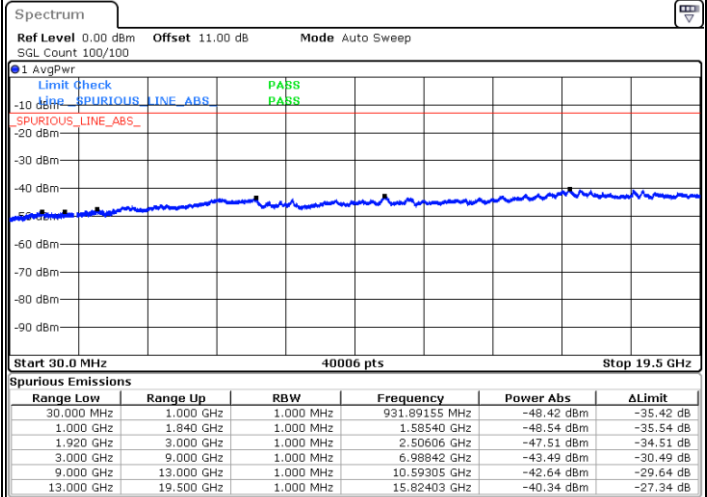
LTE Band 2 / 20MHz

Lowest Channel / QPSK



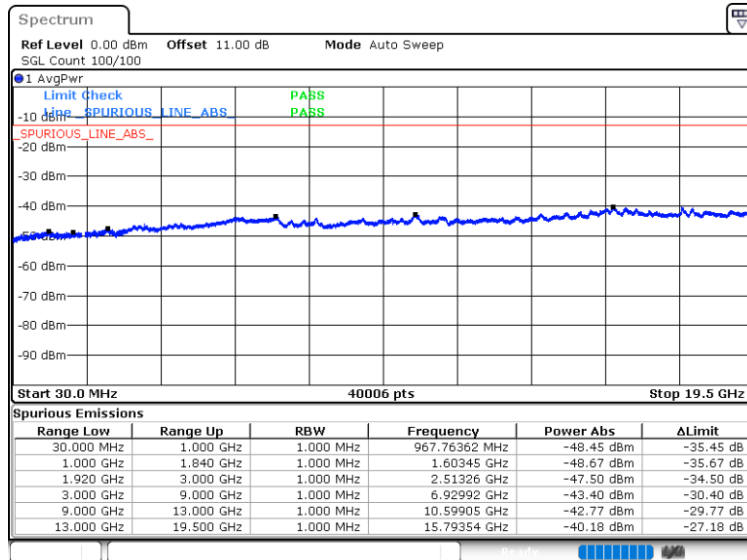
Date: 18.MAY.2021 09:43:00

Middle Channel / QPSK



Date: 18.MAY.2021 09:45:22

Highest Channel / QPSK



Date: 18.MAY.2021 09:48:01

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	0.0011	PASS
40	Normal Voltage	0.0016	
30	Normal Voltage	0.0003	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0094	
0	Normal Voltage	0.0006	
-10	Normal Voltage	0.0003	
-20	Normal Voltage	0.0095	
-30	Normal Voltage	0.0007	
20	Maximum Voltage	0.0099	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0011	

Note:

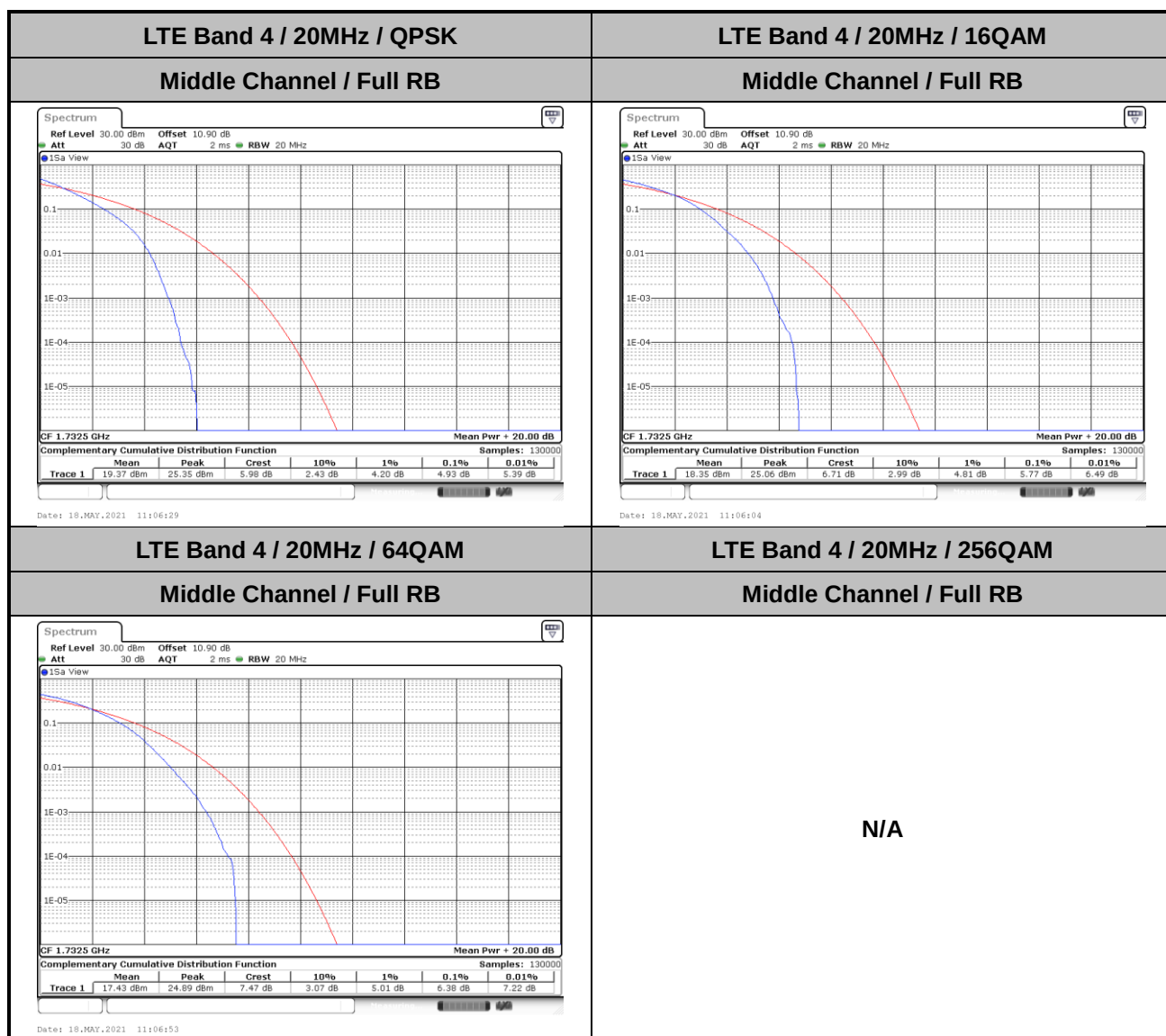
1. Normal Voltage =14 V. ; Battery End Point (BEP) =12 V. ; Maximum Voltage =16 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 4

Peak-to-Average Ratio

Mode	LTE Band 4 / 20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.93	5.77	6.38	-	PASS



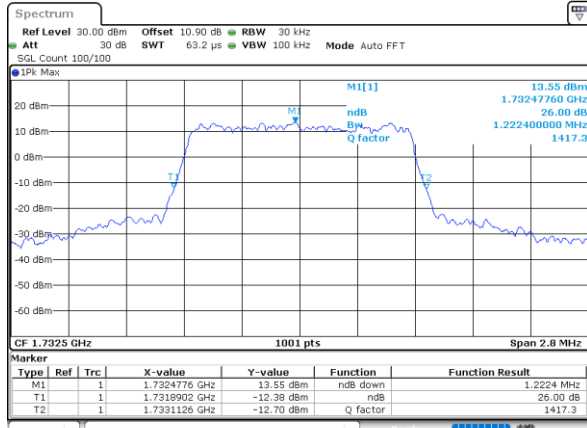
**26dB Bandwidth**

Mode	LTE Band 4 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.22	1.23	2.97	3.06	4.92	4.97	9.79	9.89	14.30	14.27	19.22	19.10
Mode	LTE Band 4 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM
Middle CH	1.22	-	3.02	-	4.83	-	9.87	-	14.15	-	19.18	-



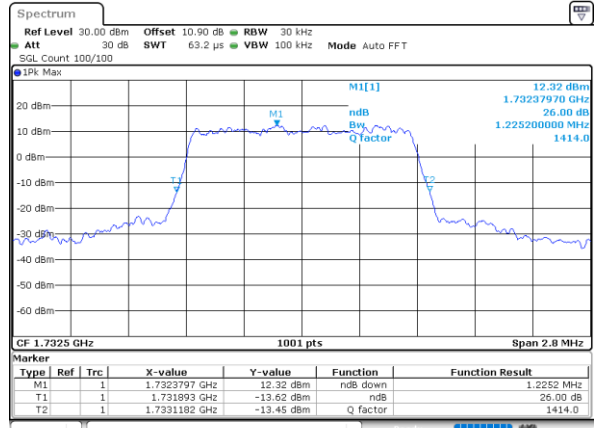
LTE Band 4

Middle Channel / 1.4MHz / QPSK



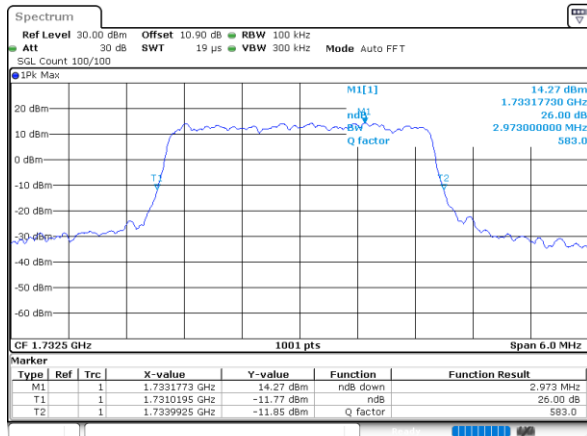
Date: 18.MAY.2021 10:07:13

Middle Channel / 1.4MHz / 16QAM



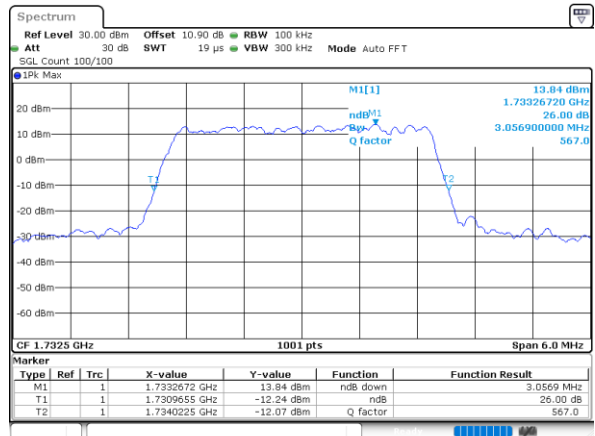
Date: 18.MAY.2021 10:07:52

Middle Channel / 3MHz / QPSK



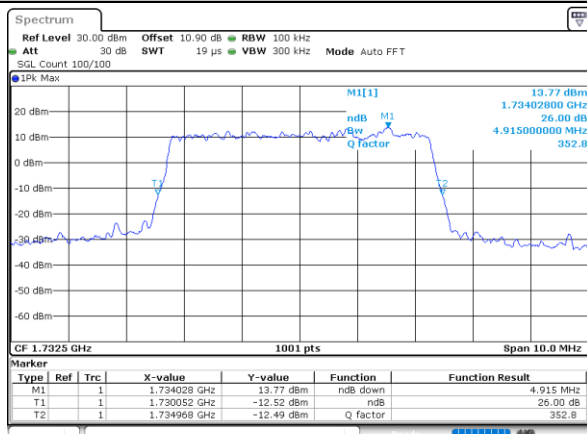
Date: 18.MAY.2021 10:17:38

Middle Channel / 3MHz / 16QAM



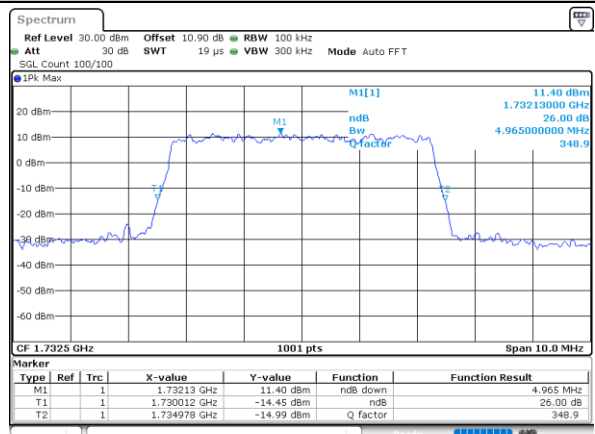
Date: 18.MAY.2021 10:17:58

Middle Channel / 5MHz / QPSK



Date: 18.MAY.2021 10:30:10

Middle Channel / 5MHz / 16QAM

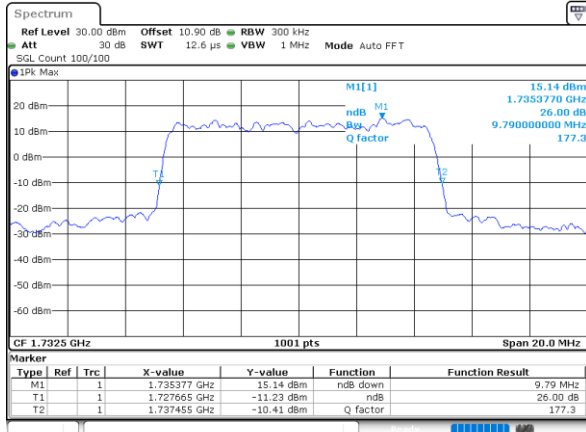


Date: 18.MAY.2021 10:30:31



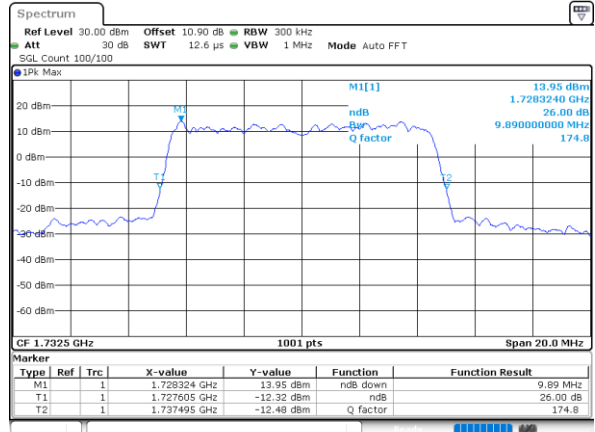
LTE Band 4

Middle Channel / 10MHz / QPSK



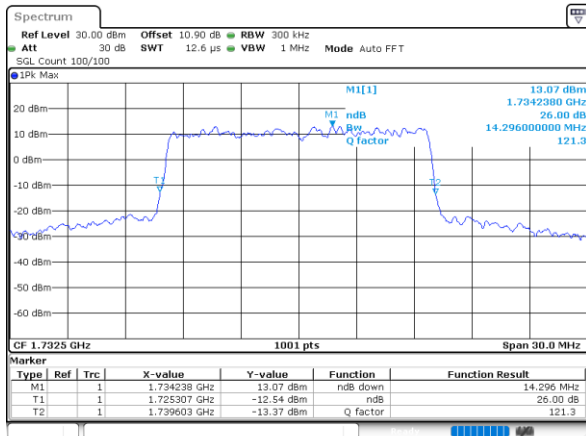
Date: 18.MAY.2021 10:37:51

Middle Channel / 10MHz / 16QAM



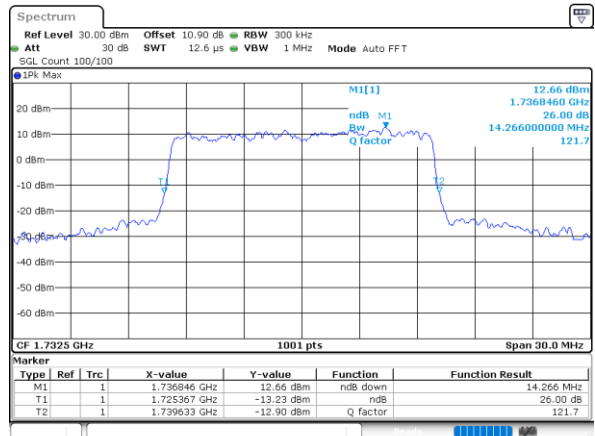
Date: 18.MAY.2021 10:38:12

Middle Channel / 15MHz / QPSK



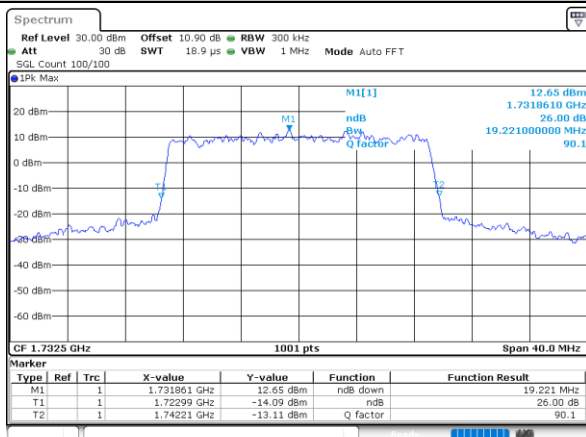
Date: 18.MAY.2021 10:47:57

Middle Channel / 15MHz / 16QAM



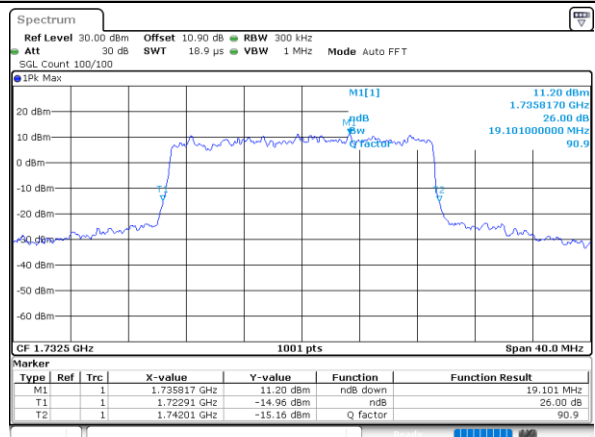
Date: 18.MAY.2021 10:48:16

Middle Channel / 20MHz / QPSK



Date: 18.MAY.2021 10:58:04

Middle Channel / 20MHz / 16QAM

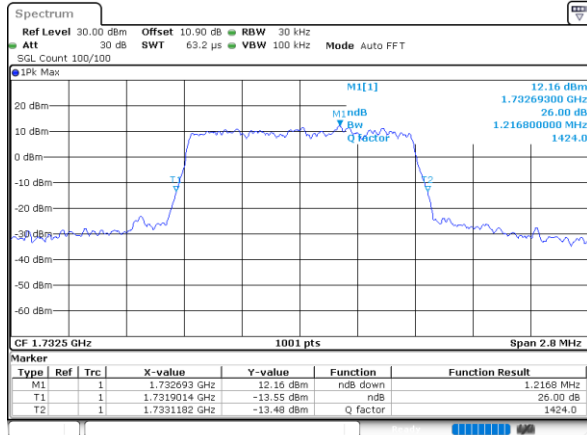


Date: 18.MAY.2021 10:58:25



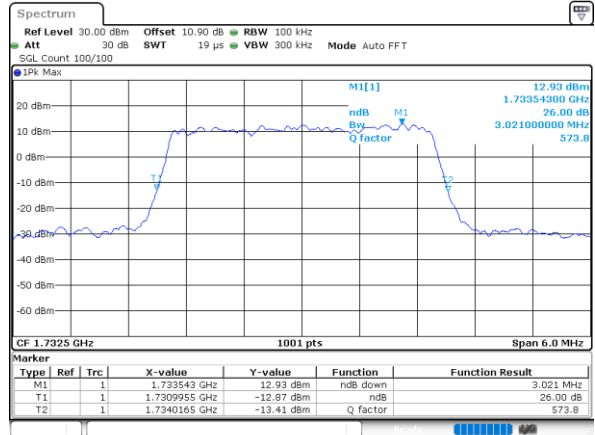
LTE Band 4

Middle Channel / 1.4MHz / 64QAM



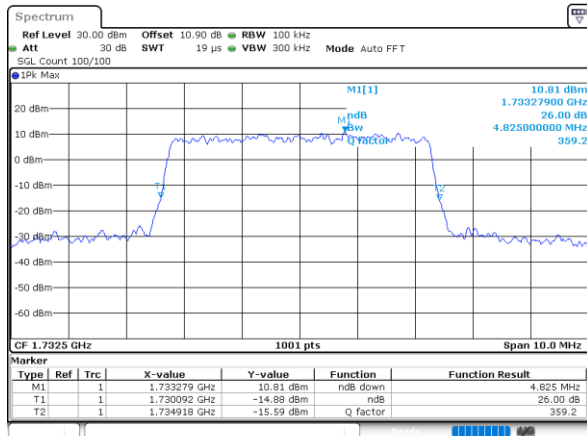
Date: 18.MAY.2021 10:13:01

Middle Channel / 3MHz / 64QAM



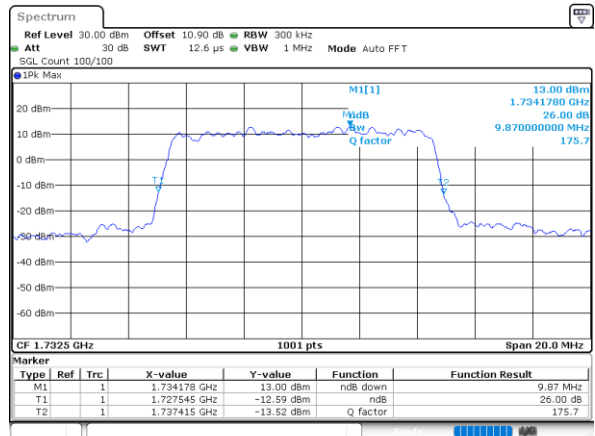
Date: 18.MAY.2021 10:23:07

Middle Channel / 5MHz / 64QAM



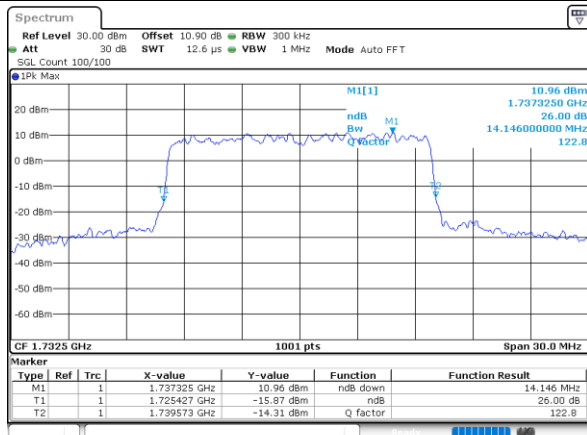
Date: 18.MAY.2021 10:25:04

Middle Channel / 10MHz / 64QAM



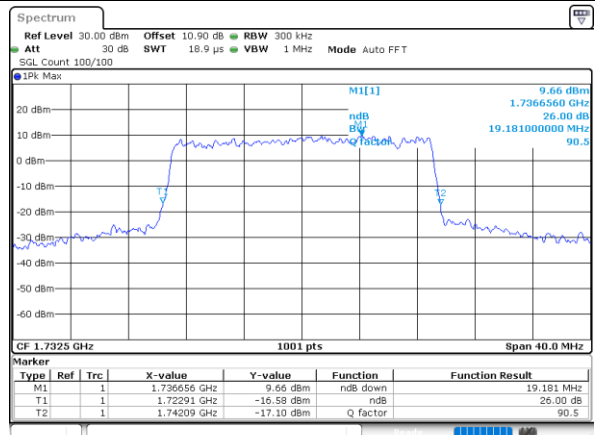
Date: 18.MAY.2021 10:43:20

Middle Channel / 15MHz / 64QAM



Date: 18.MAY.2021 10:53:27

Middle Channel / 20MHz / 64QAM



Date: 18.MAY.2021 11:04:51

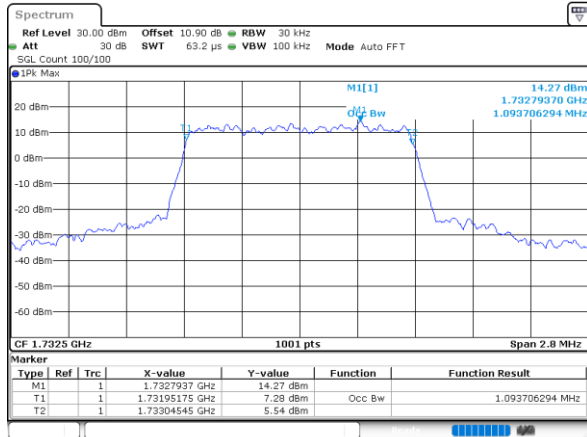
**Occupied Bandwidth**

Mode	LTE Band 4 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.09	1.09	2.72	2.70	4.50	4.49	8.97	9.01	13.49	13.43	17.90	17.86
Mode	LTE Band 4 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM
Middle CH	1.09	-	2.71	-	4.50	-	9.05	-	13.43	-	17.90	-

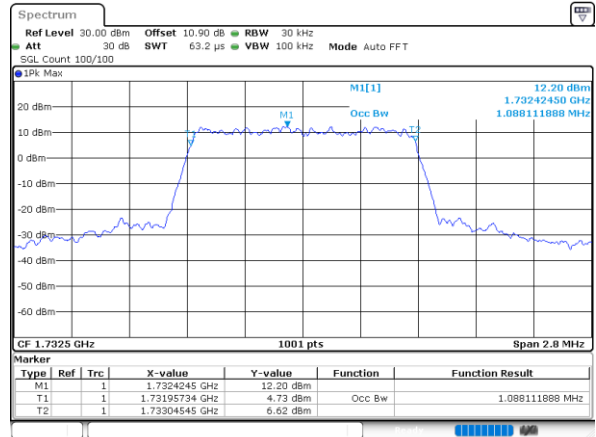


LTE Band 4

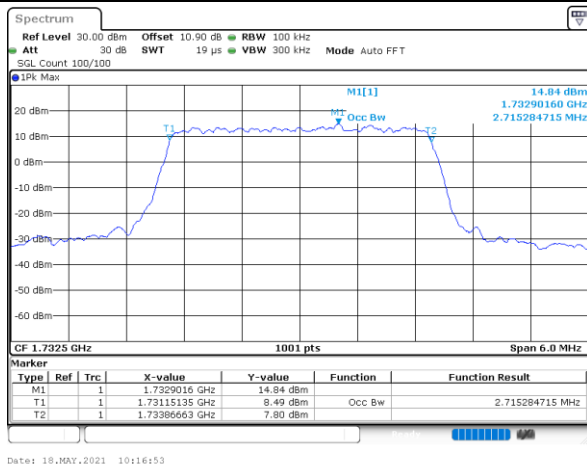
Middle Channel / 1.4MHz / QPSK



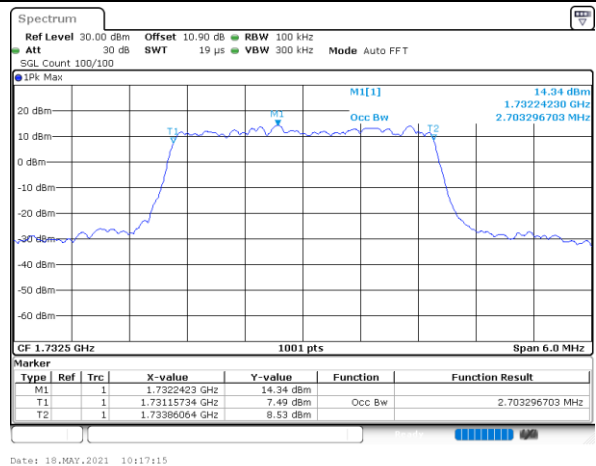
Middle Channel / 1.4MHz / 16QAM



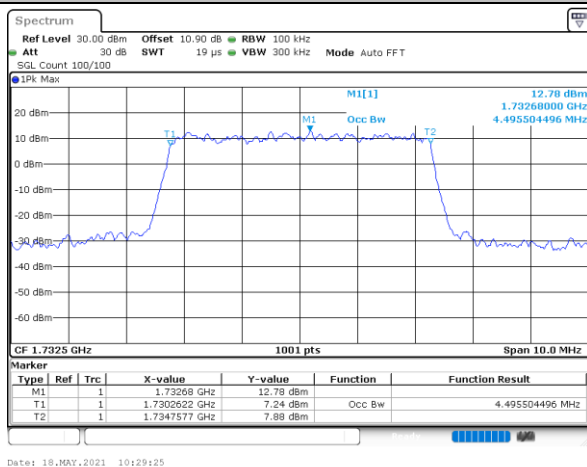
Middle Channel / 3MHz / QPSK



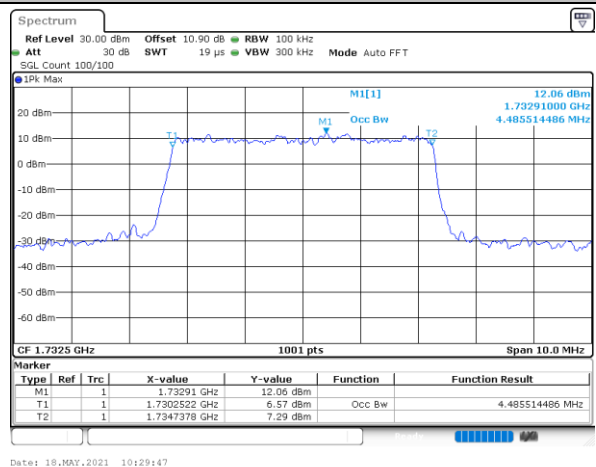
Middle Channel / 3MHz / 16QAM



Middle Channel / 5MHz / QPSK



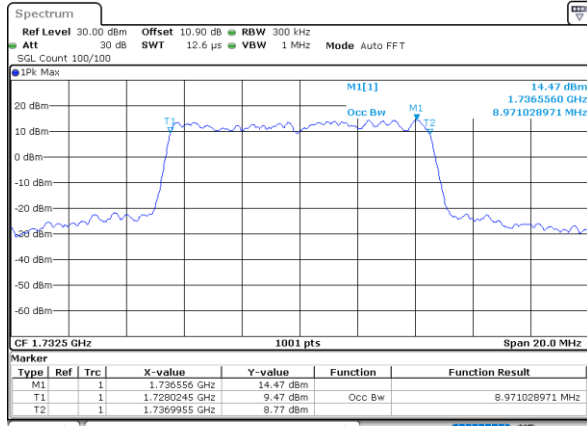
Middle Channel / 5MHz / 16QAM



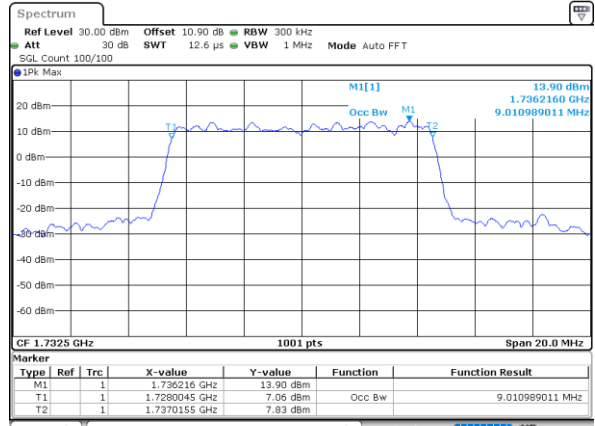


LTE Band 4

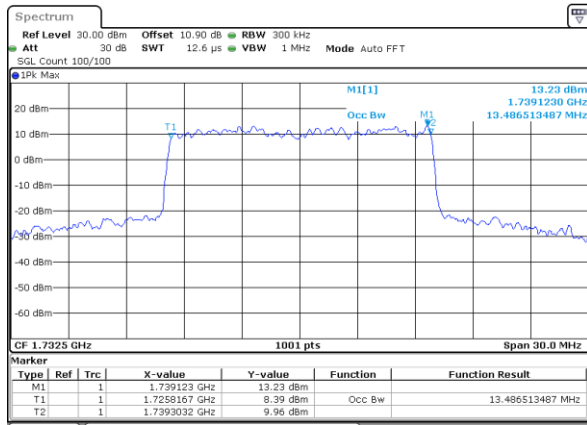
Middle Channel / 10MHz / QPSK



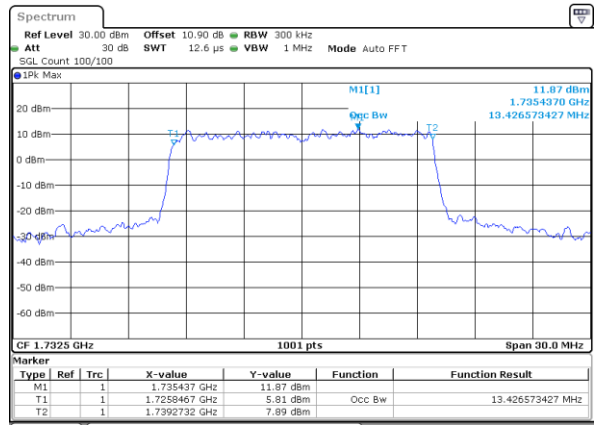
Middle Channel / 10MHz / 16QAM



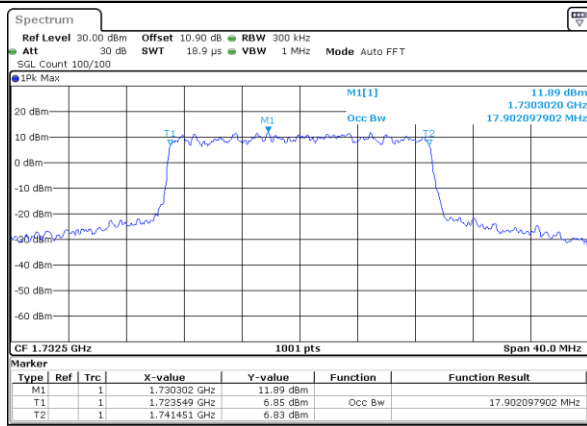
Middle Channel / 15MHz / QPSK



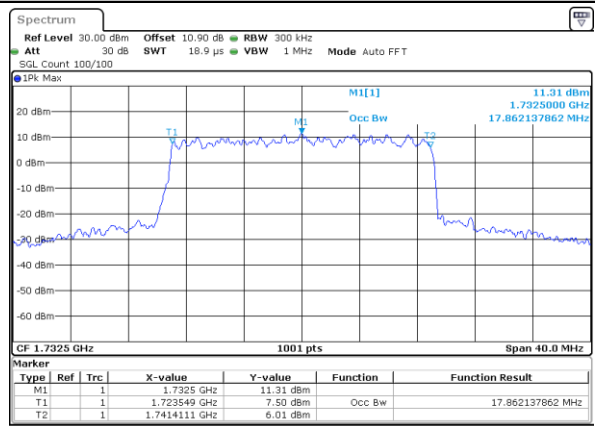
Middle Channel / 15MHz / 16QAM



Middle Channel / 20MHz / QPSK



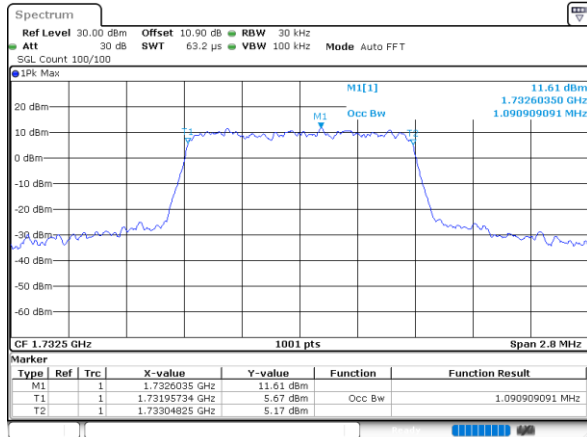
Middle Channel / 20MHz / 16QAM



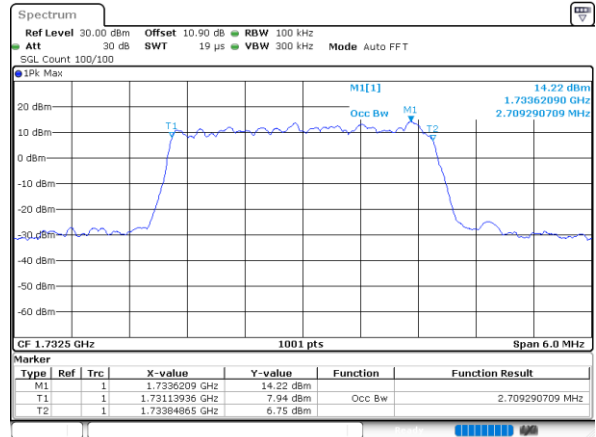


LTE Band 4

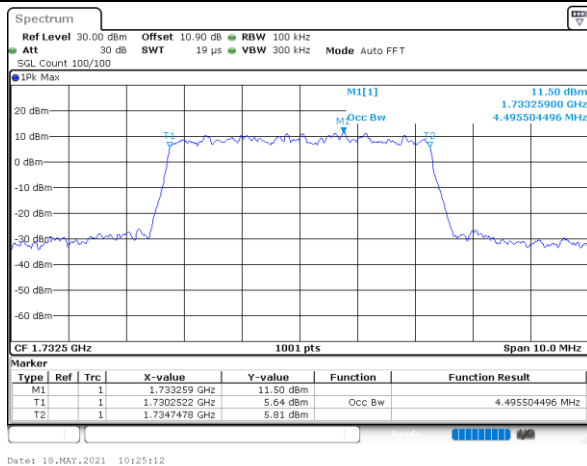
Middle Channel / 1.4MHz / 64QAM



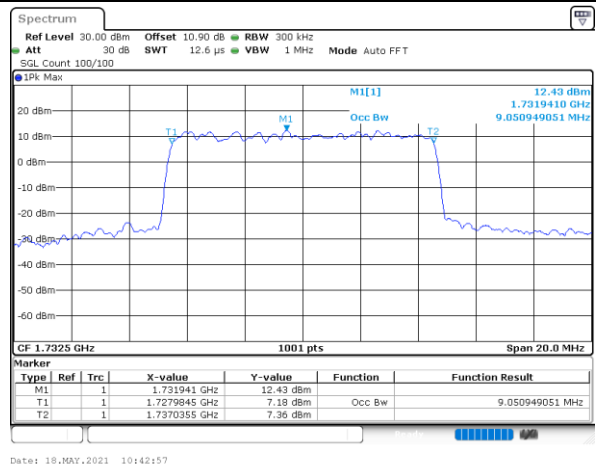
Middle Channel / 3MHz / 64QAM



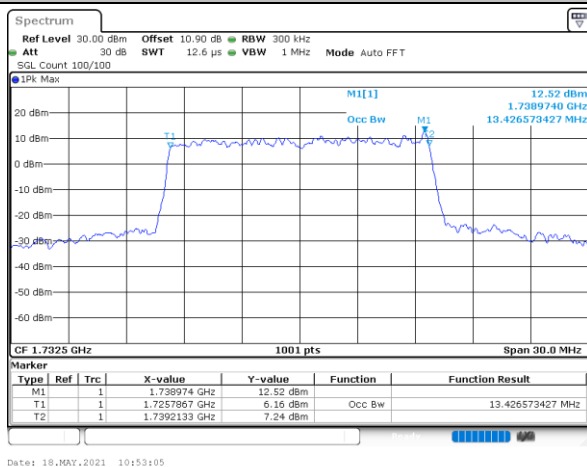
Middle Channel / 5MHz / 64QAM



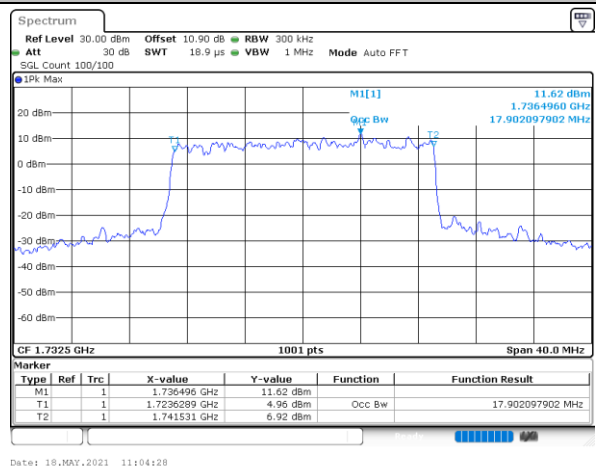
Middle Channel / 10MHz / 64QAM



Middle Channel / 15MHz / 64QAM



Middle Channel / 20MHz / 64QAM

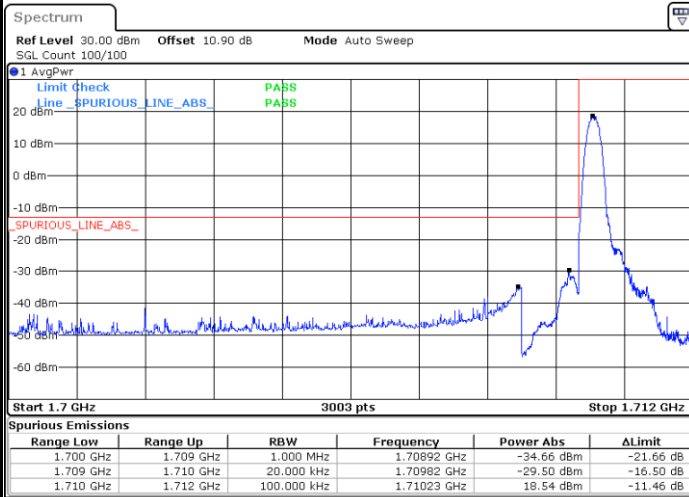




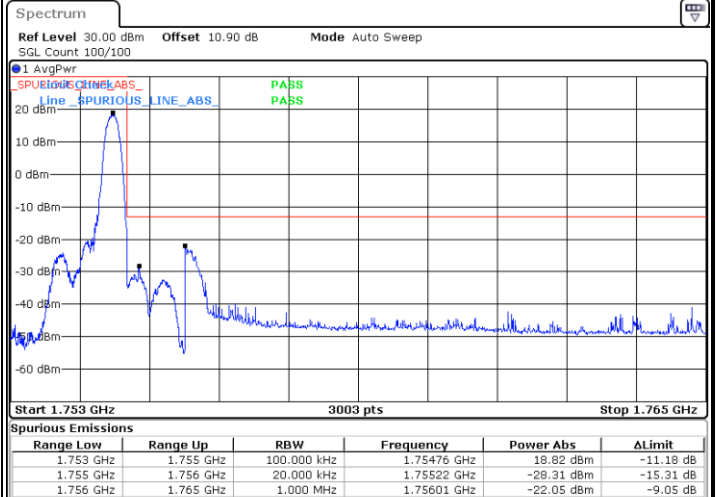
Conducted Band Edge

LTE Band 4 / 1.4MHz / QPSK

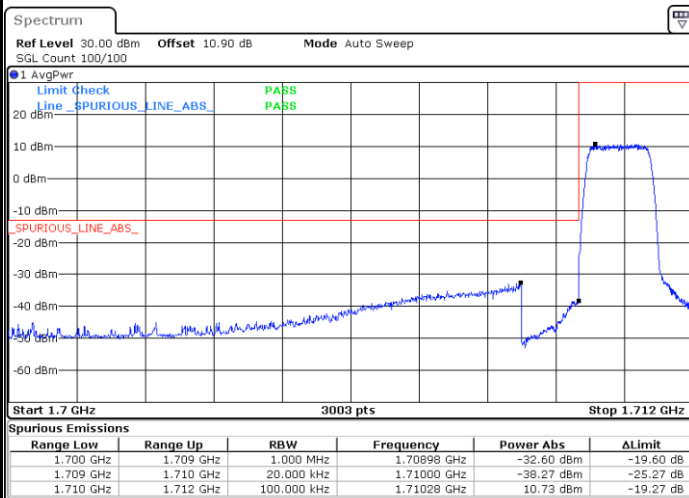
Lowest Band Edge / 1RB



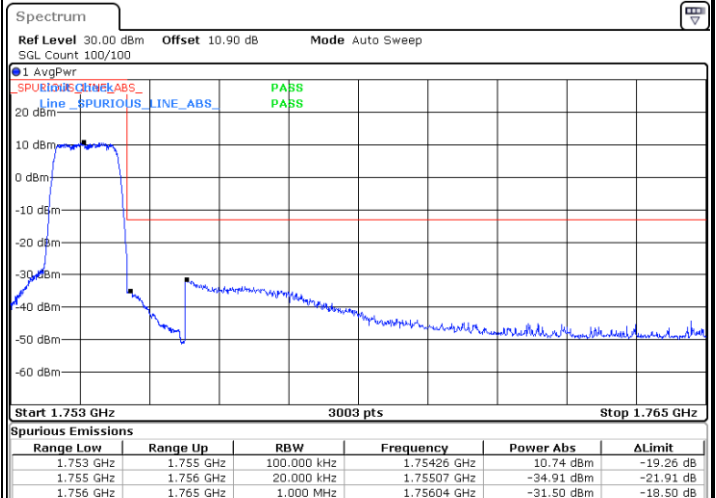
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



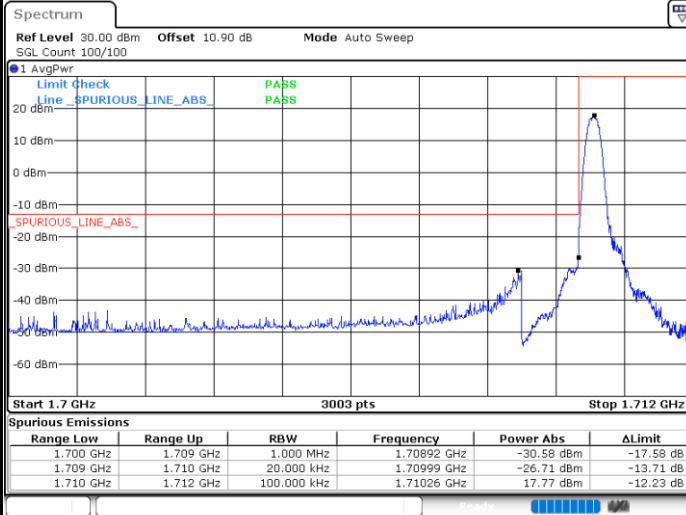
Highest Band Edge / Full RB



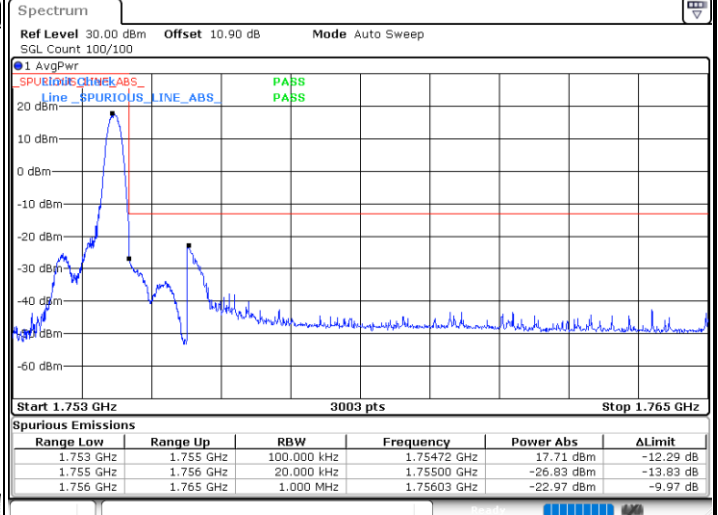


LTE Band 4 / 1.4MHz / 16QAM

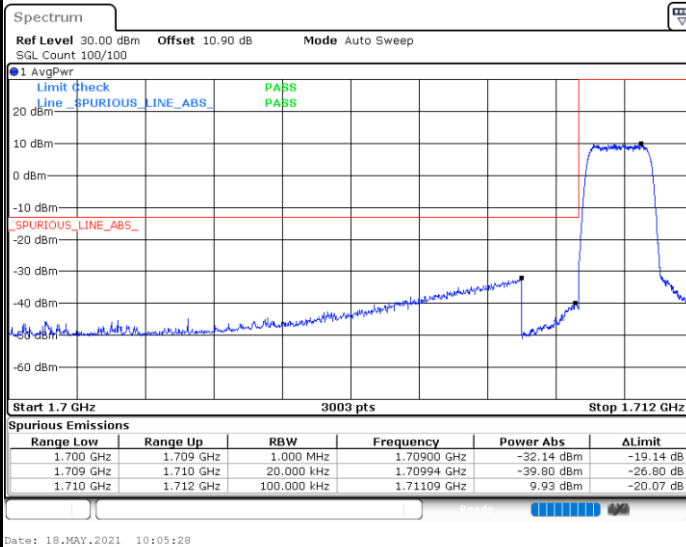
Lowest Band Edge / 1 RB



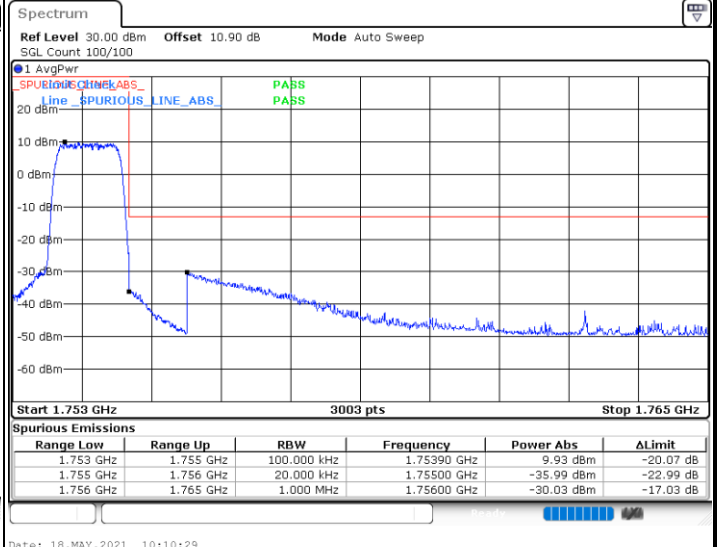
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



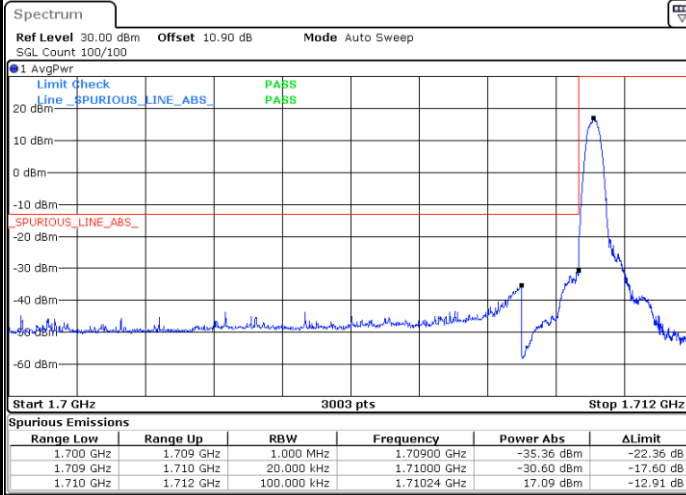
Highest Band Edge / Full RB



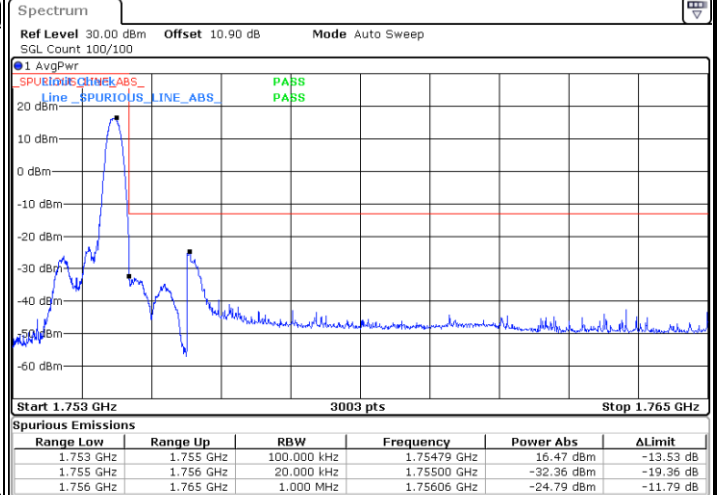


LTE Band 4 / 1.4MHz / 64QAM

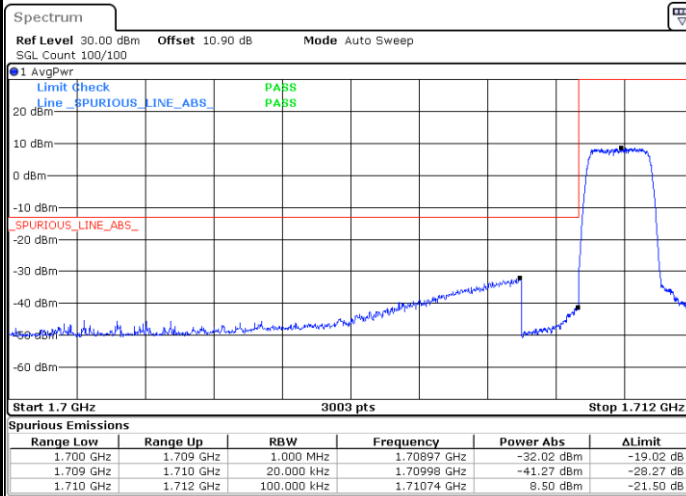
Lowest Band Edge / 1 RB



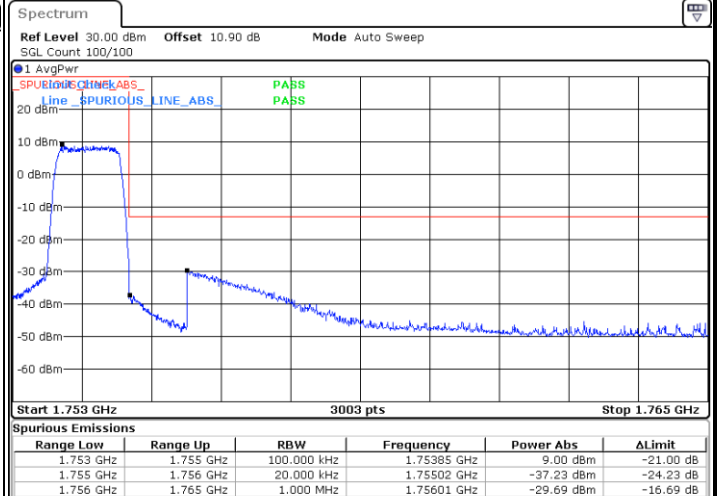
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



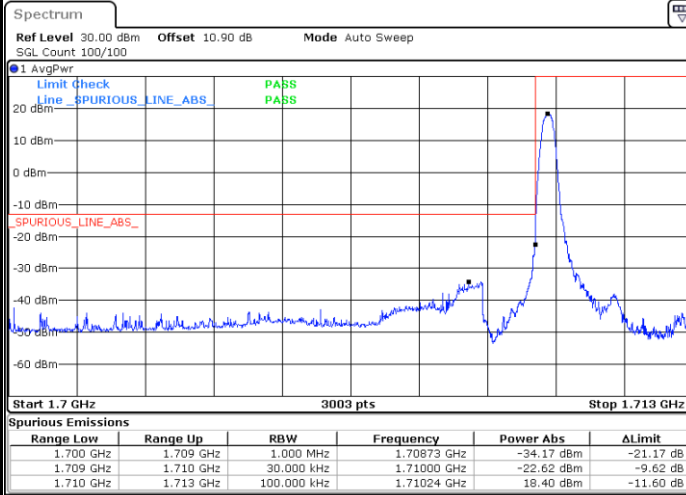
Highest Band Edge / Full RB



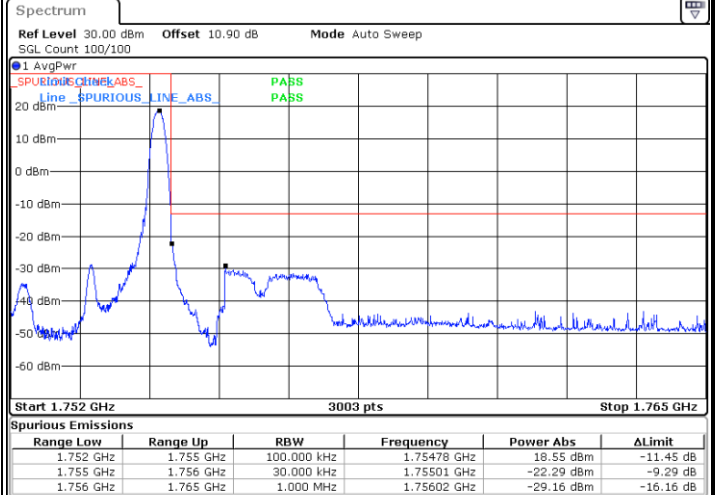


LTE Band 4 / 3MHz / QPSK

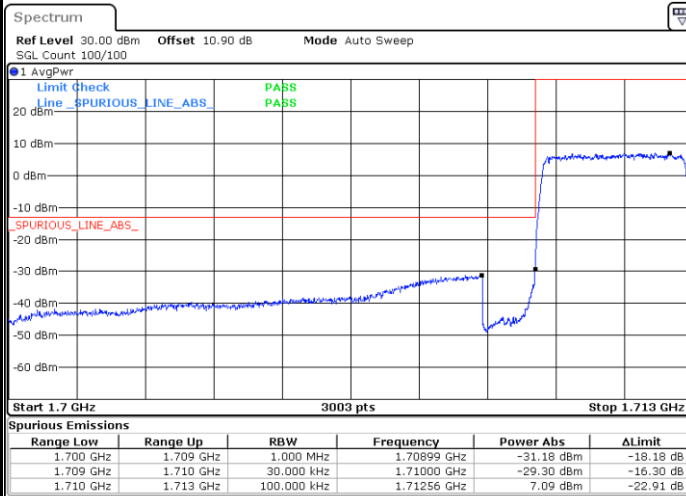
Lowest Band Edge / 1RB



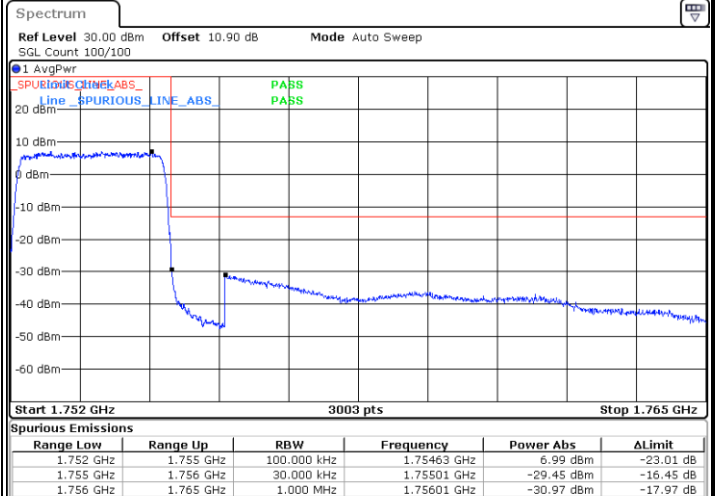
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



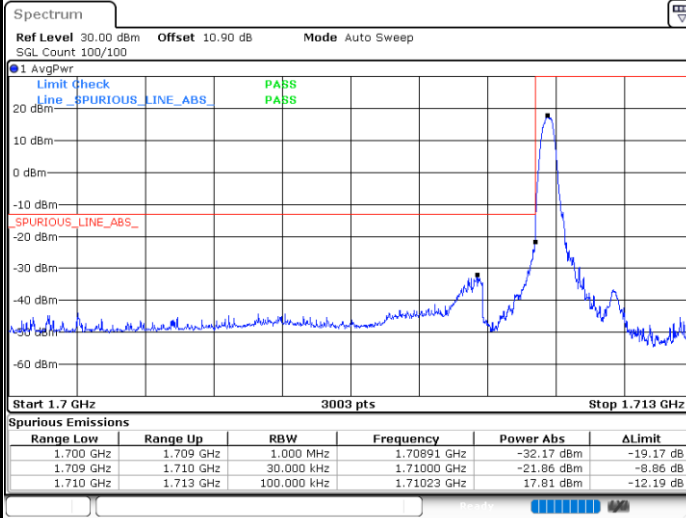
Highest Band Edge / Full RB



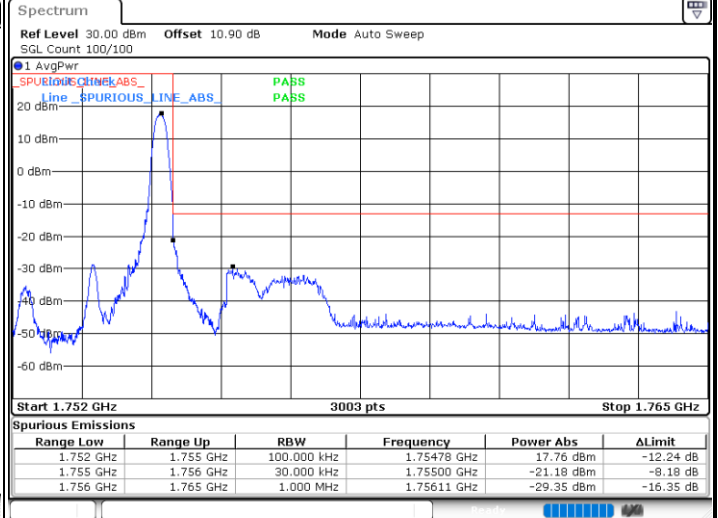


LTE Band 4 / 3MHz / 16QAM

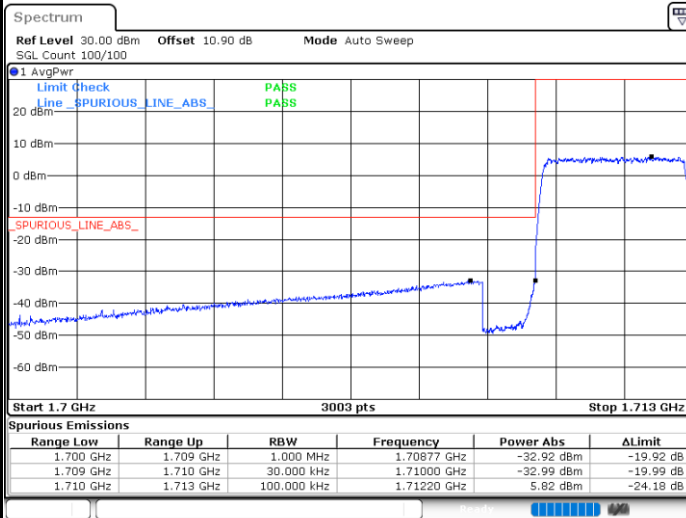
Lowest Band Edge / 1 RB



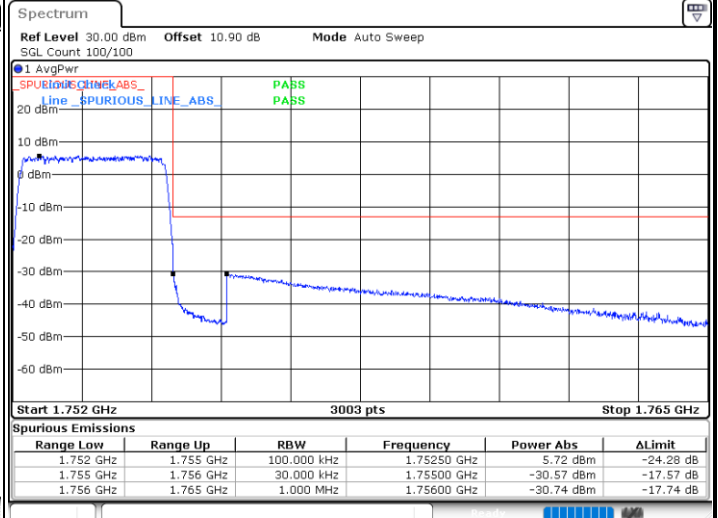
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



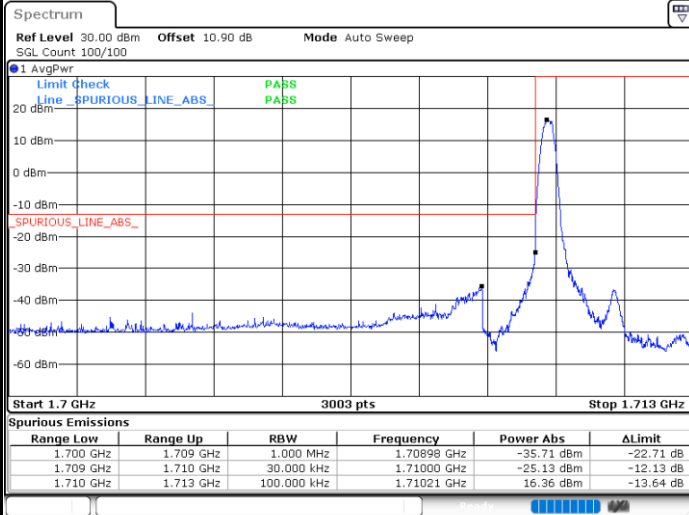
Highest Band Edge / Full RB



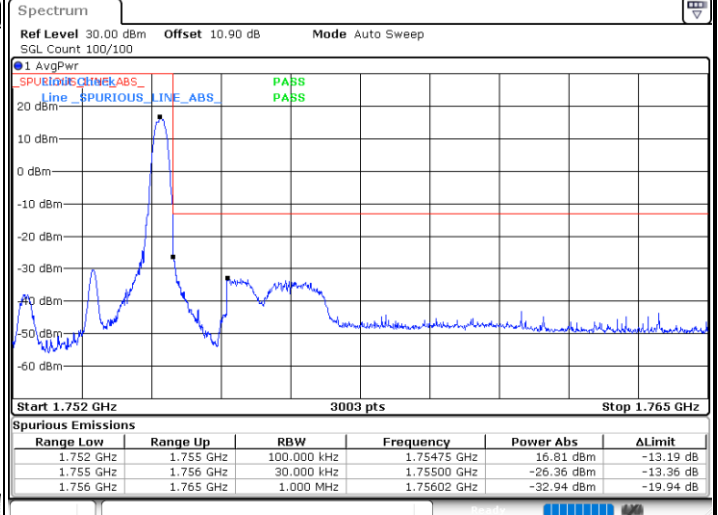


LTE Band 4 / 3MHz / 64QAM

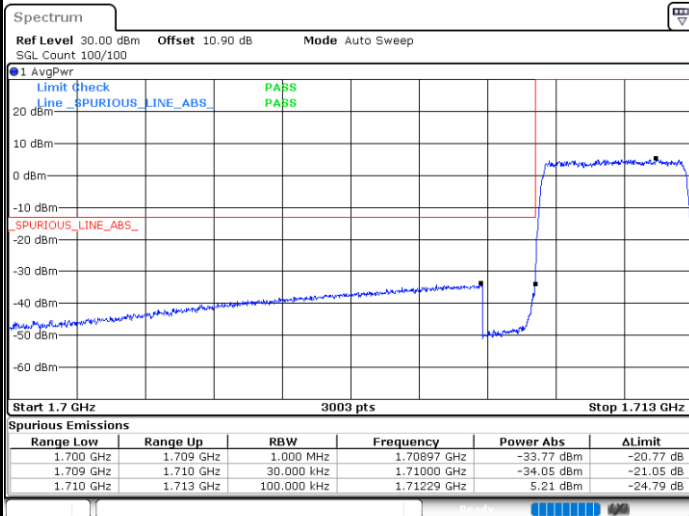
Lowest Band Edge / 1 RB



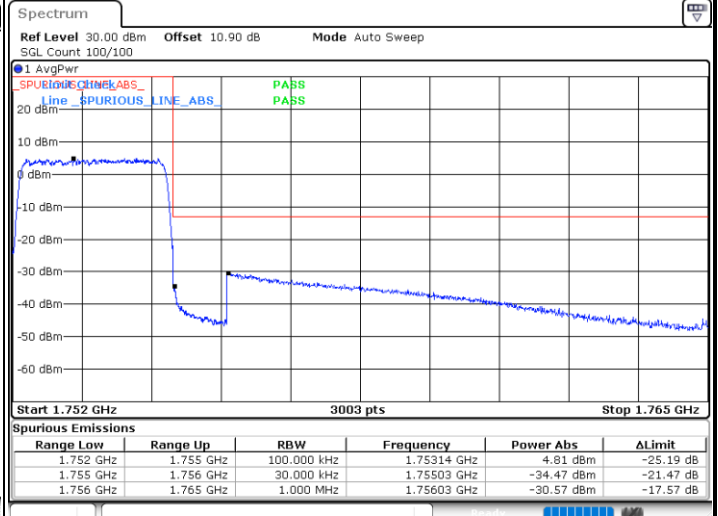
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



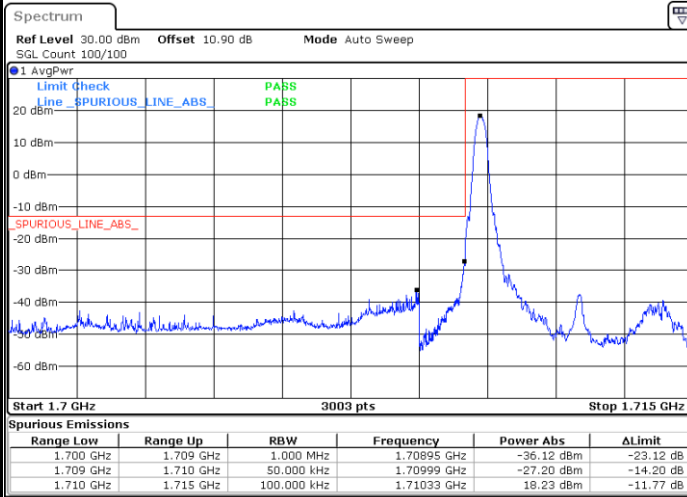
Highest Band Edge / Full RB



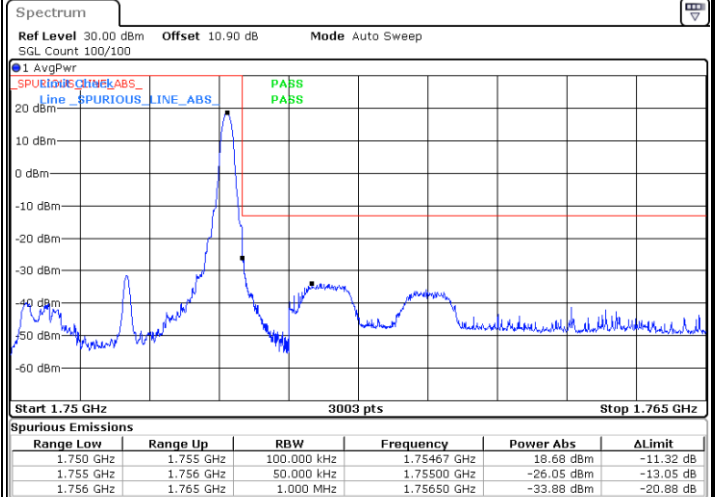


LTE Band 4 / 5MHz / QPSK

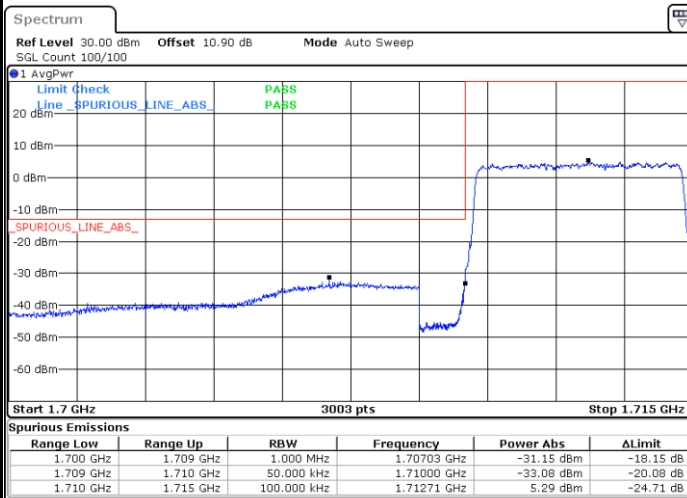
Lowest Band Edge / 1 RB



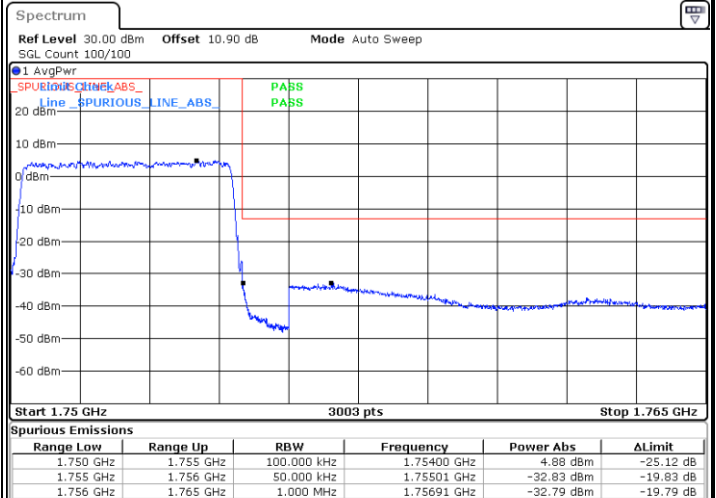
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



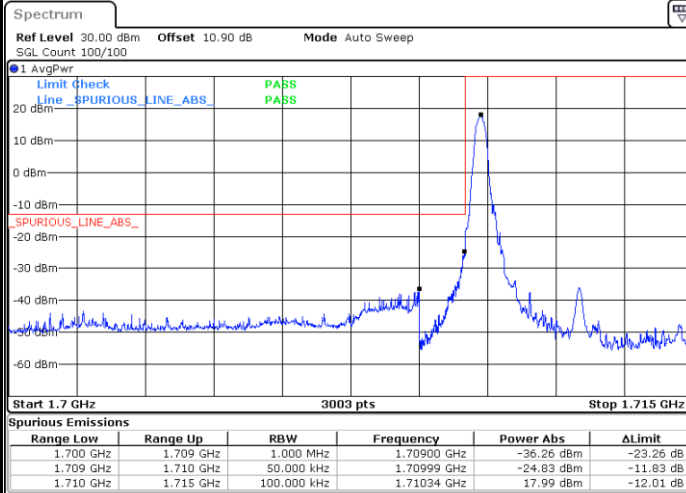
Highest Band Edge / Full RB



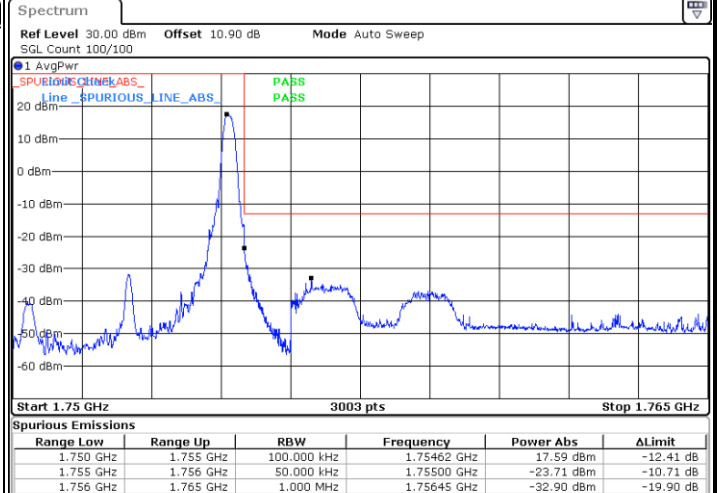


LTE Band 4 / 5MHz / 16QAM

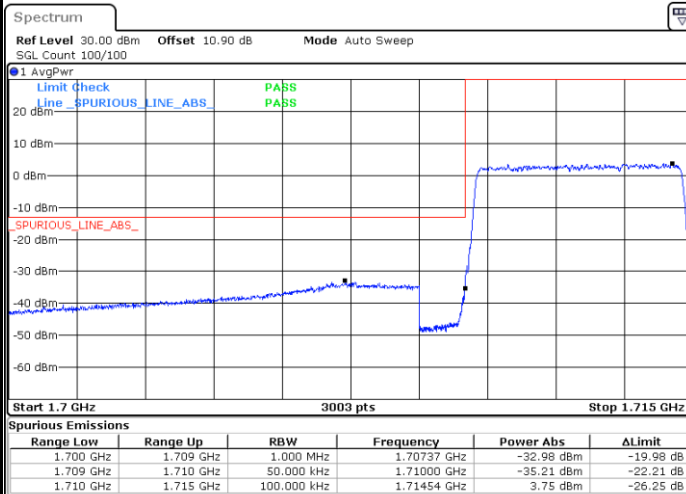
Lowest Band Edge / 1RB



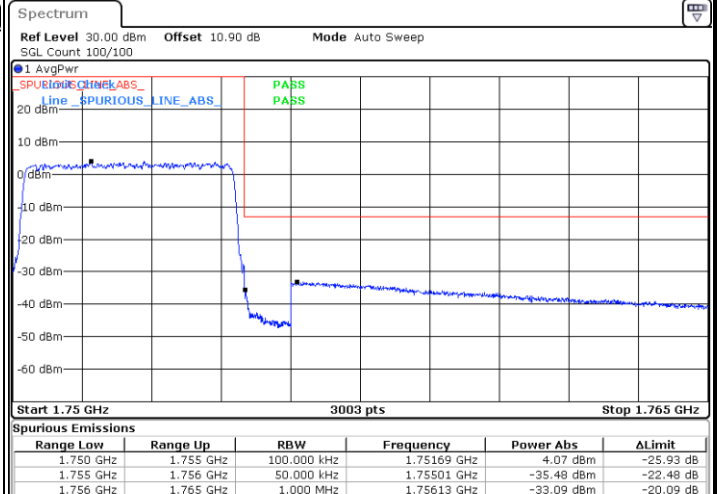
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



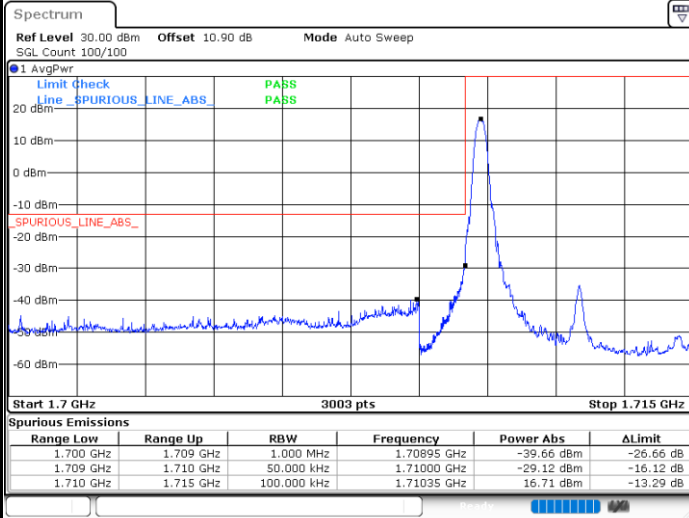
Highest Band Edge / Full RB



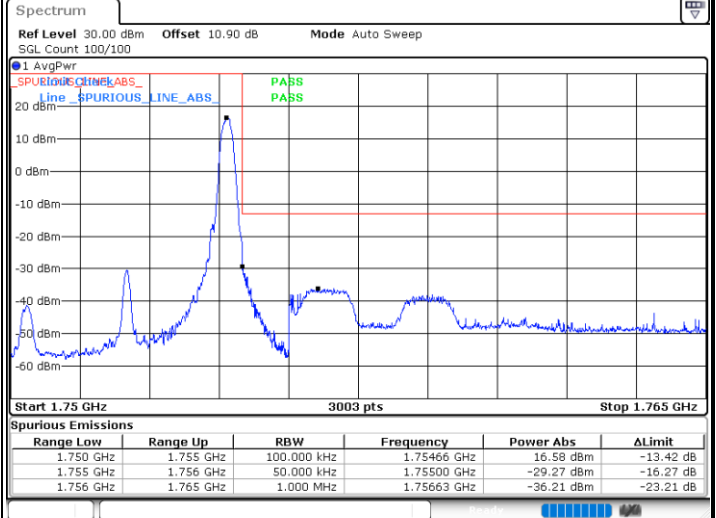


LTE Band 4 / 5MHz / 64QAM

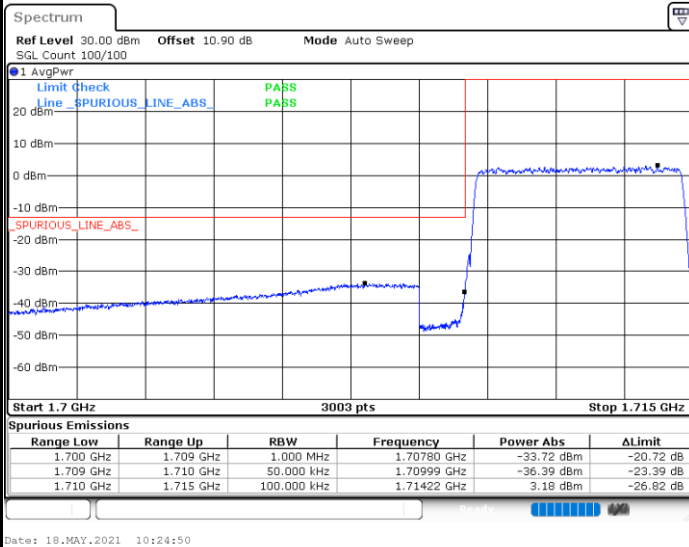
Lowest Band Edge / 1RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

