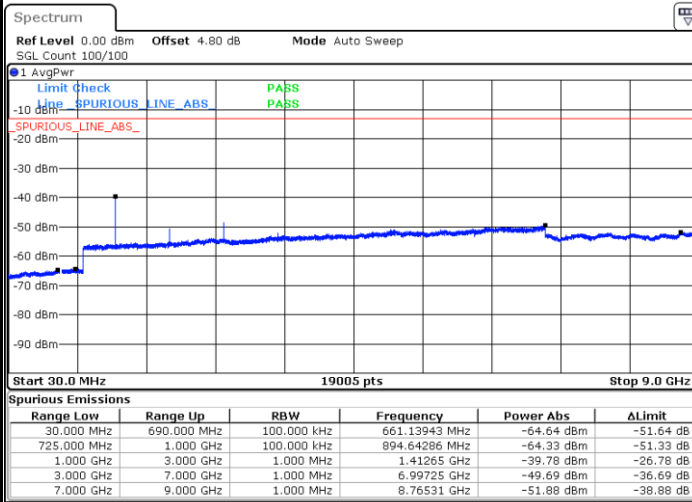




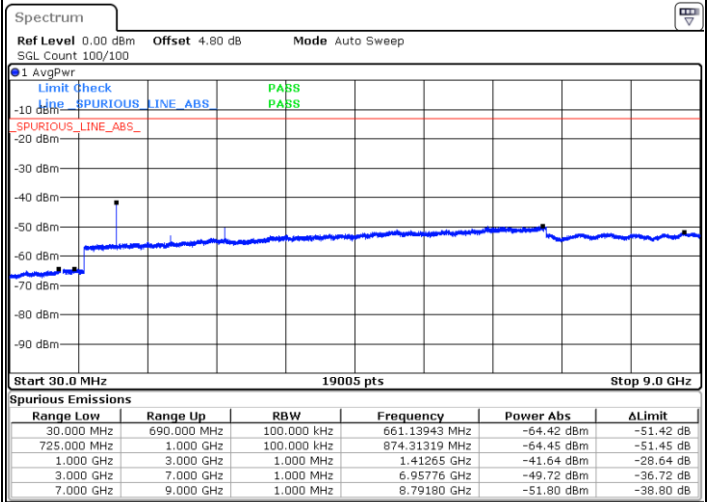
LTE Band 12 / 3MHz

Middle Channel / QPSK



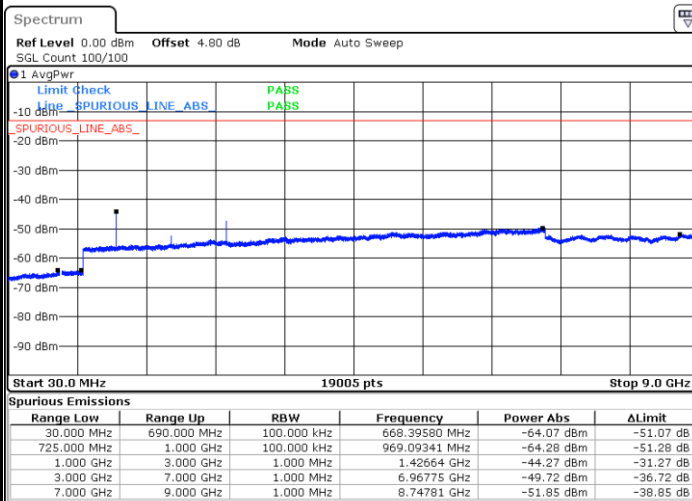
Date: 2 AUG 2020 02:45:40

Middle Channel / 16QAM



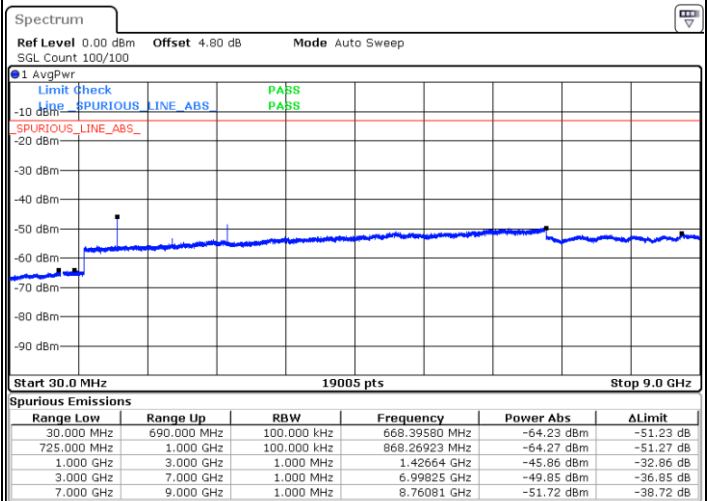
Date: 2 AUG 2020 02:44:46

Highest Channel / QPSK



Date: 2 AUG 2020 02:46:34

Highest Channel / 16QAM

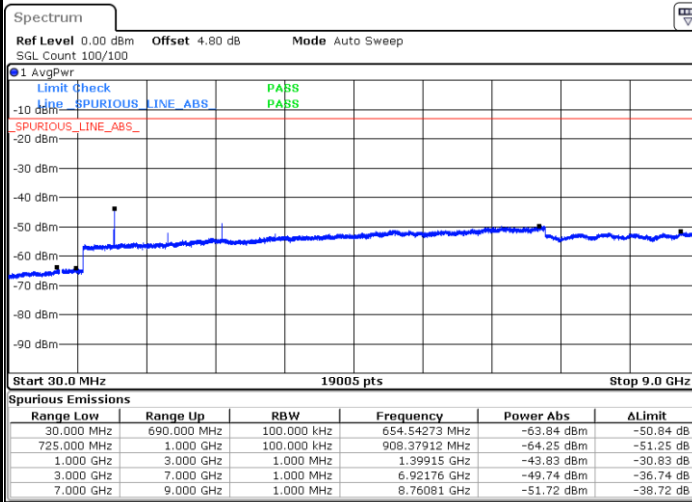


Date: 2 AUG 2020 02:47:29



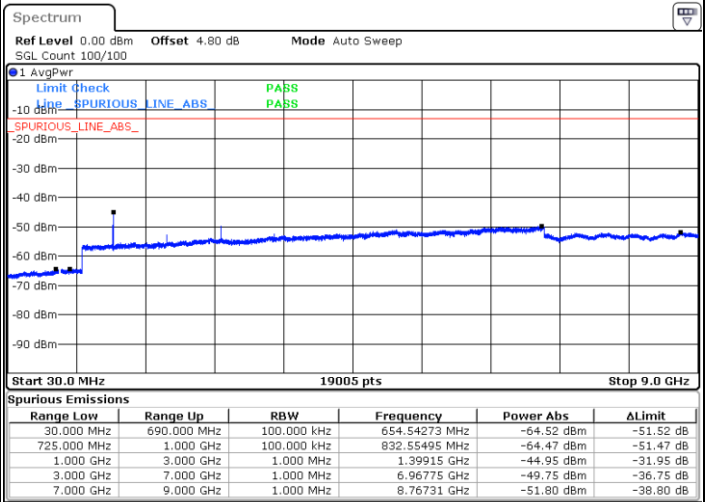
LTE Band 12 / 5MHz

Lowest Channel / QPSK



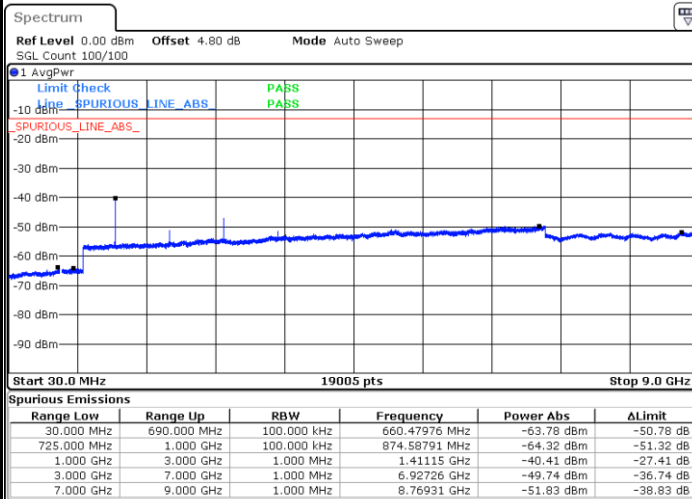
Date: 2 AUG 2020 02:59:22

Lowest Channel / 16QAM



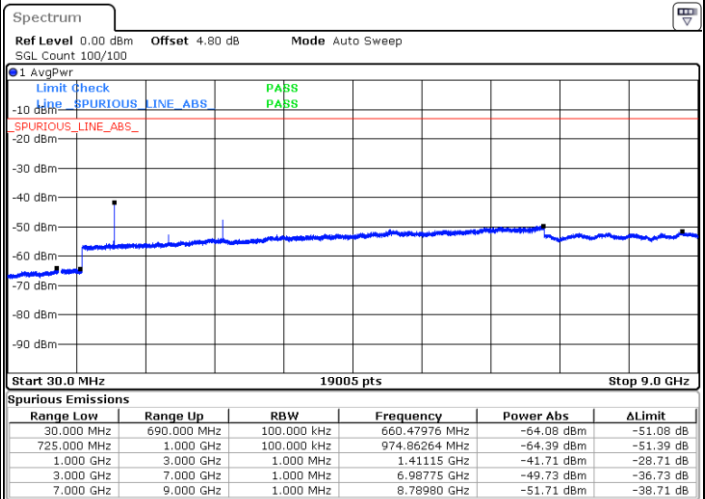
Date: 2 AUG 2020 03:00:16

Middle Channel / QPSK



Date: 2 AUG 2020 03:02:04

Middle Channel / 16QAM

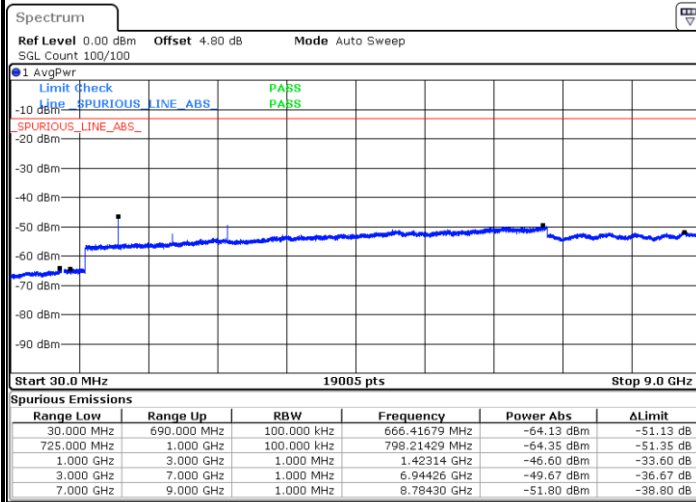


Date: 2 AUG 2020 03:01:10



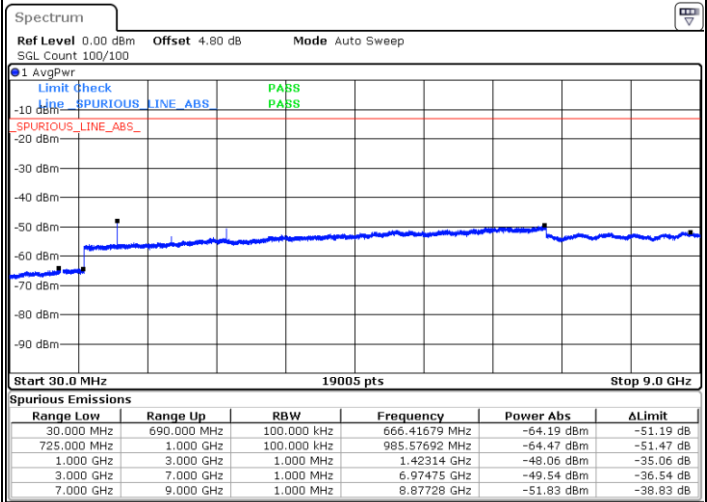
LTE Band 12 / 5MHz

Highest Channel / QPSK



Date: 2 AUG.2020 03:02:59

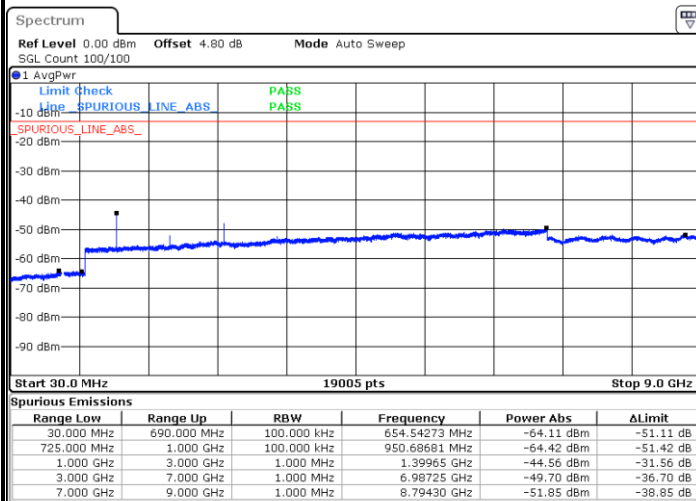
Highest Channel / 16QAM



Date: 2 AUG.2020 03:03:53

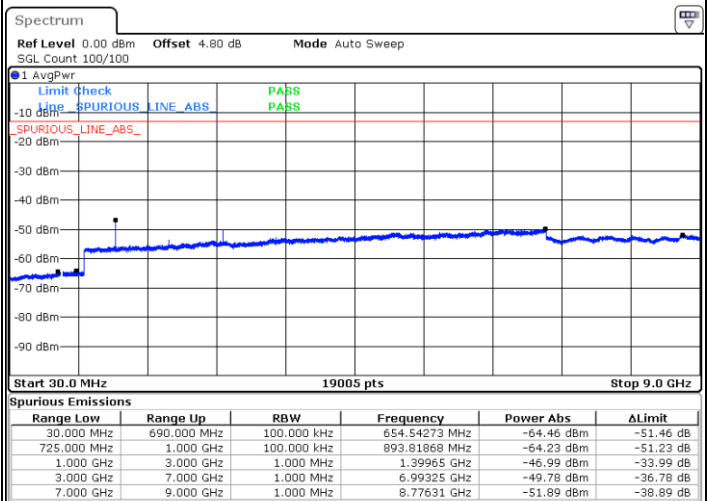
LTE Band 12 / 10MHz

Lowest Channel / QPSK



Date: 2 AUG.2020 03:15:46

Lowest Channel / 16QAM

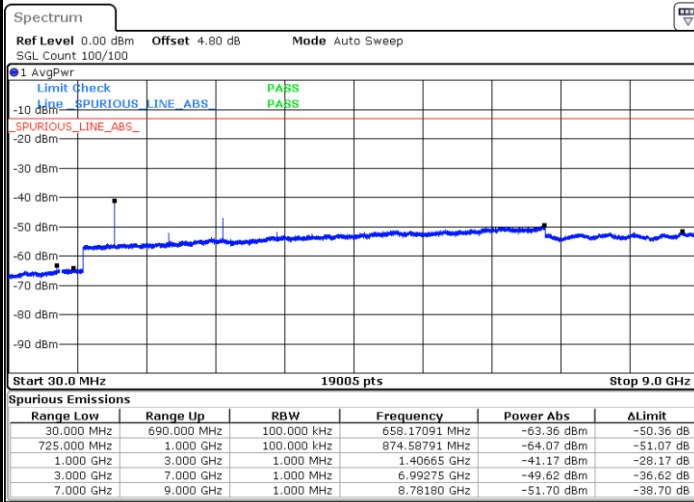


Date: 2 AUG.2020 03:16:40



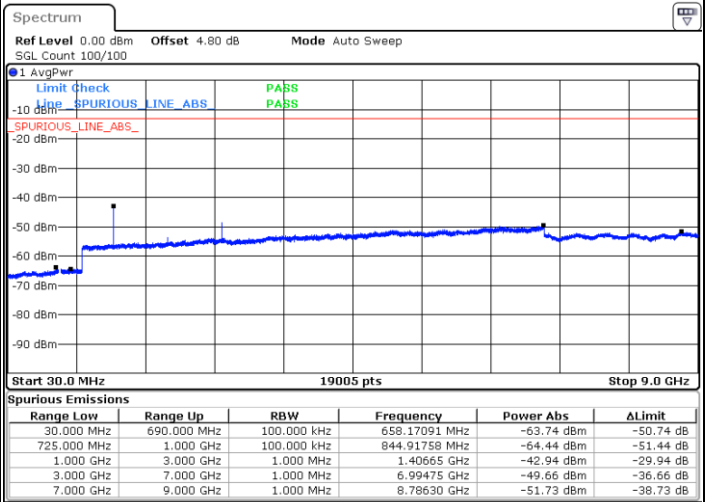
LTE Band 12 / 10MHz

Middle Channel / QPSK



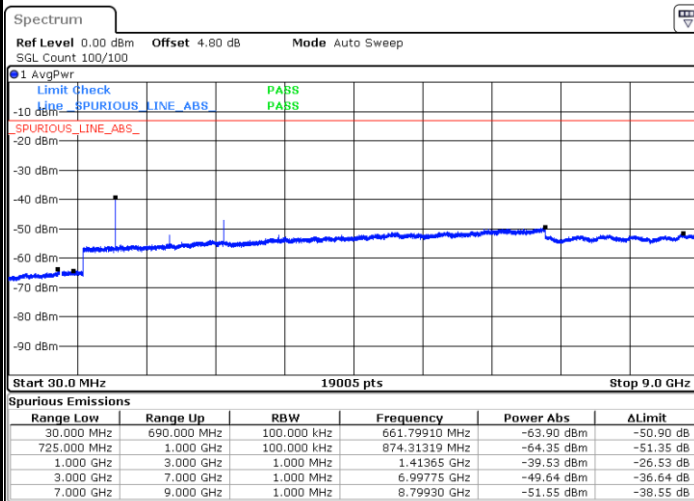
Date: 2 AUG 2020 03:18:29

Middle Channel / 16QAM



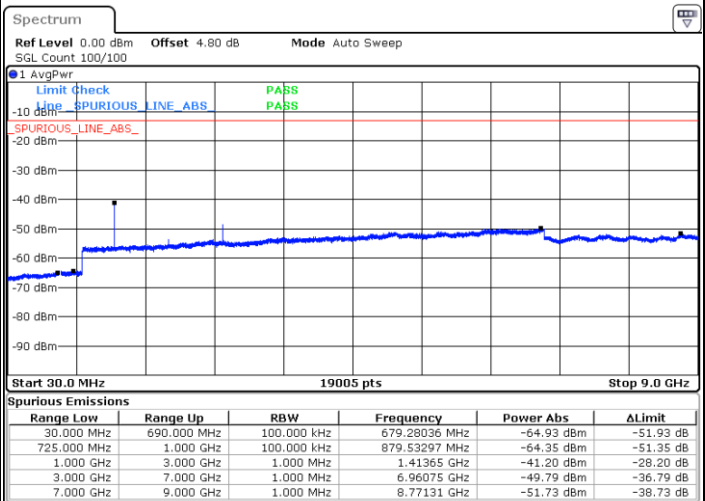
Date: 2 AUG 2020 03:17:34

Highest Channel / QPSK



Date: 2 AUG 2020 03:19:23

Highest Channel / 16QAM



Date: 2 AUG 2020 03:20:17

Frequency Stability

Test Conditions		LTE Band 12 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0011	PASS
40	Normal Voltage	0.0024	
30	Normal Voltage	0.0090	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0102	
0	Normal Voltage	0.0006	
-10	Normal Voltage	0.0023	
-20	Normal Voltage	0.0076	
-30	Normal Voltage	0.0068	
20	Maximum Voltage	0.0011	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0106	

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.



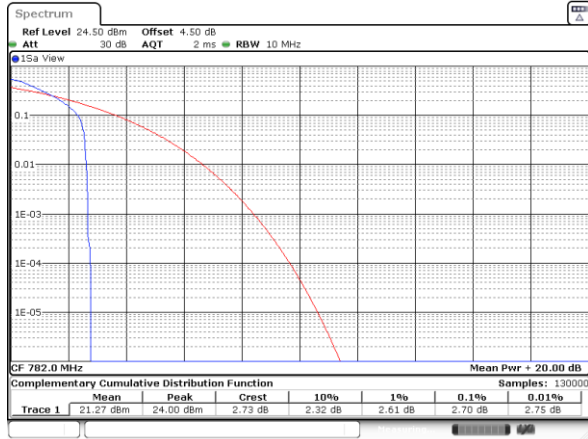
LTE Band 13

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	2.70	4.61	3.74	5.65	
Highest CH	-	-	-	-	

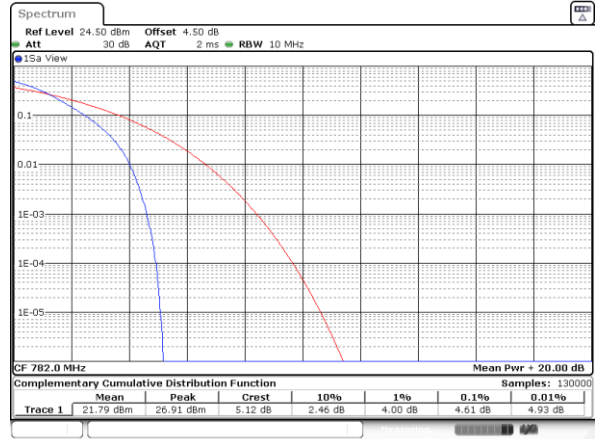
LTE Band 13 / 10MHz / QPSK

Middle Channel / 1RB



Date: 6 AUG 2020 11:03:52

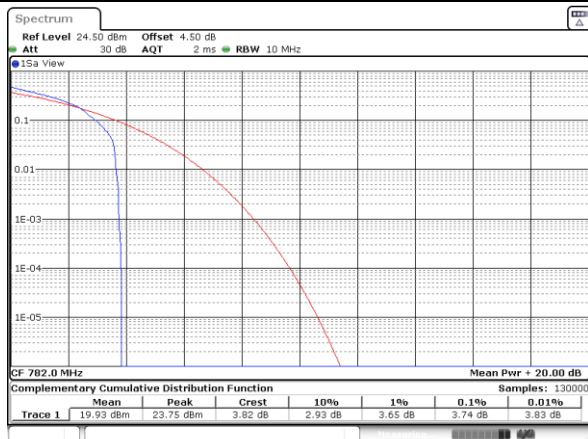
Middle Channel / Full RB



Date: 6 AUG 2020 11:01:18

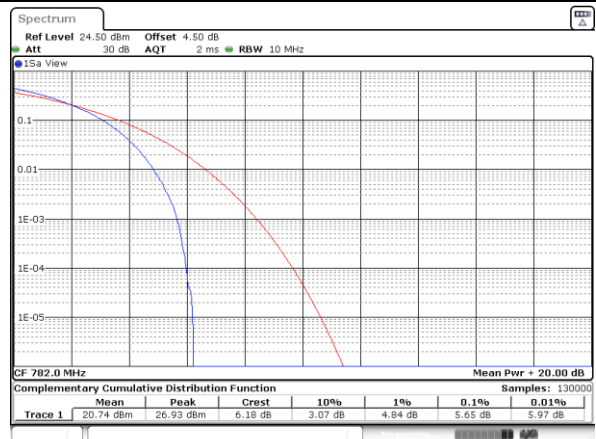
LTE Band 13 / 10MHz / 16QAM

Middle Channel / 1RB



Date: 6 AUG 2020 11:05:17

Middle Channel / Full RB



Date: 6 AUG 2020 10:59:40



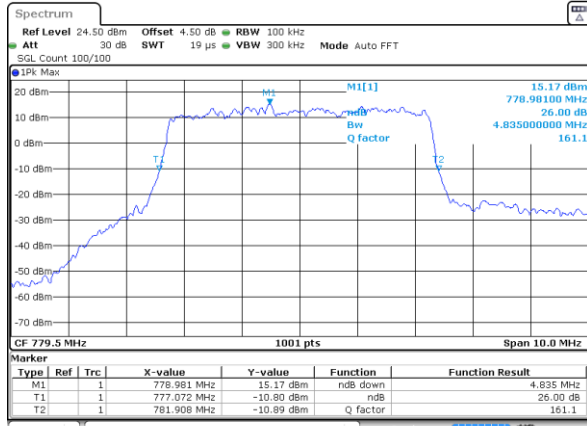
26dB Bandwidth

Mode	LTE Band 13 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.84	4.89	-	-	-	-	-	-
Middle CH	-	-	-	-	4.96	4.89	9.79	9.91	-	-	-	-
Highest CH	-	-	-	-	4.94	4.85	-	-	-	-	-	-

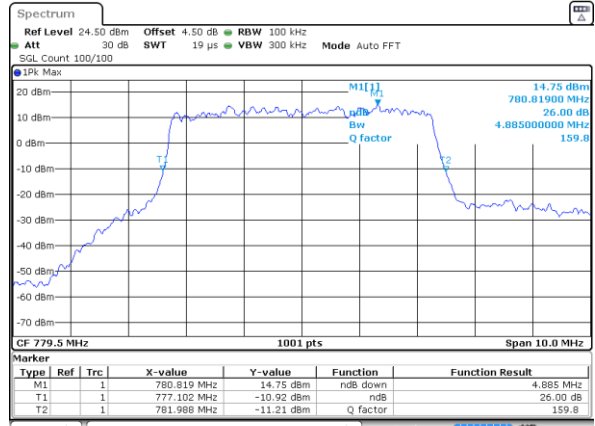


LTE Band 13

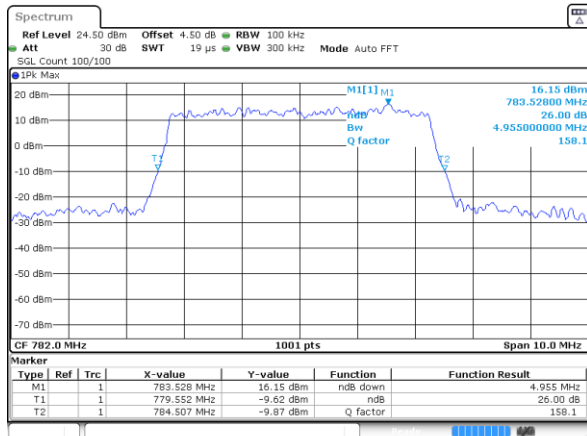
Lowest Channel / 5MHz / QPSK



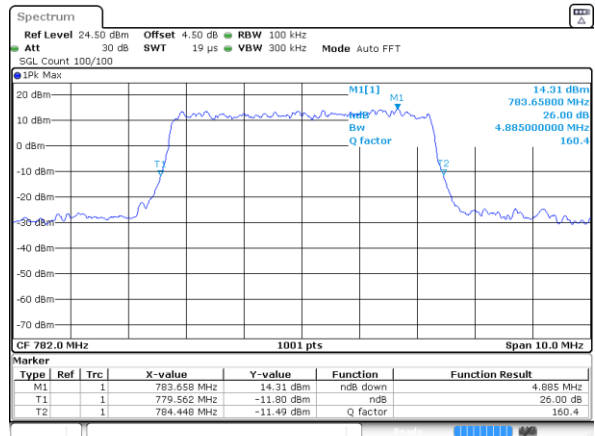
Lowest Channel / 5MHz / 16QAM



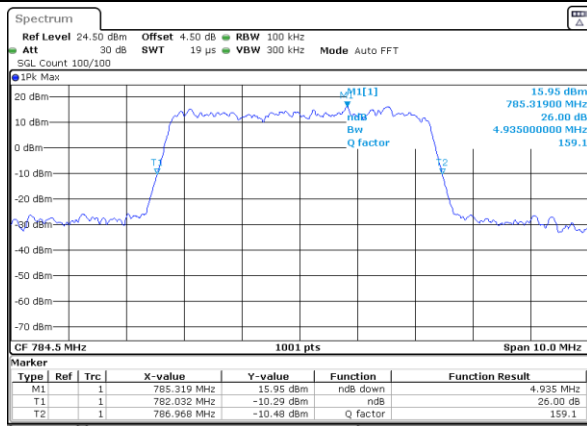
Middle Channel / 5MHz / QPSK



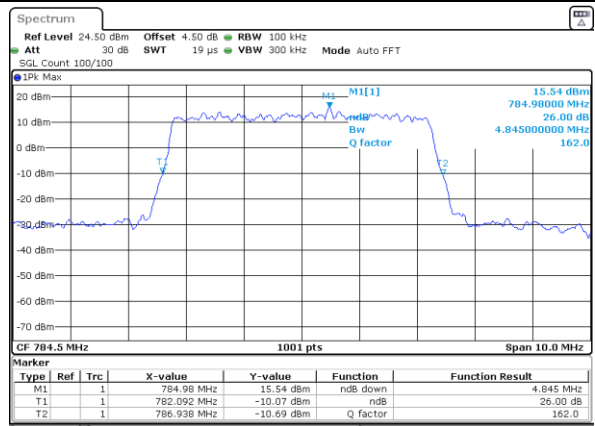
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



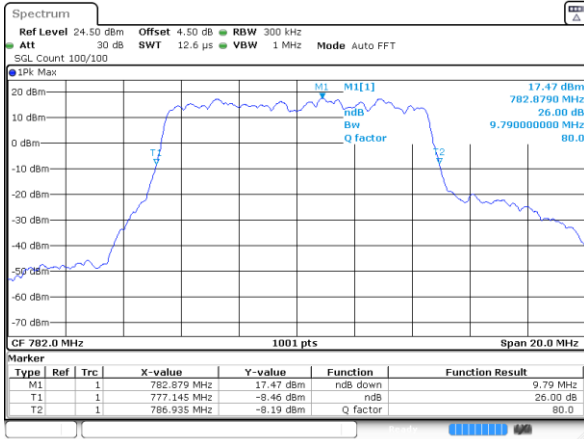
Highest Channel / 5MHz / 16QAM





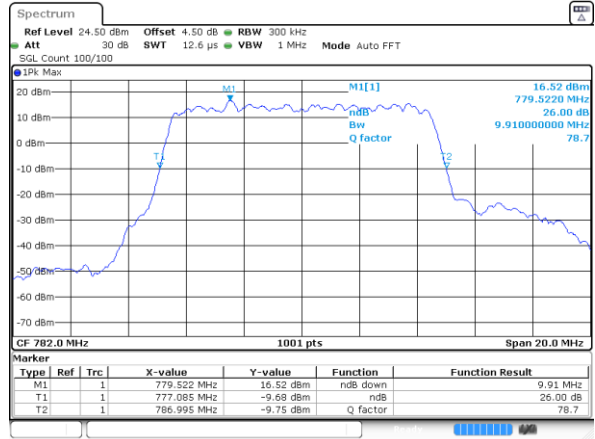
LTE Band 13

Middle Channel / 10MHz / QPSK



Date: 6 AUG 2020 11:00:04

Middle Channel / 10MHz / 16QAM



Date: 6 AUG 2020 10:58:27



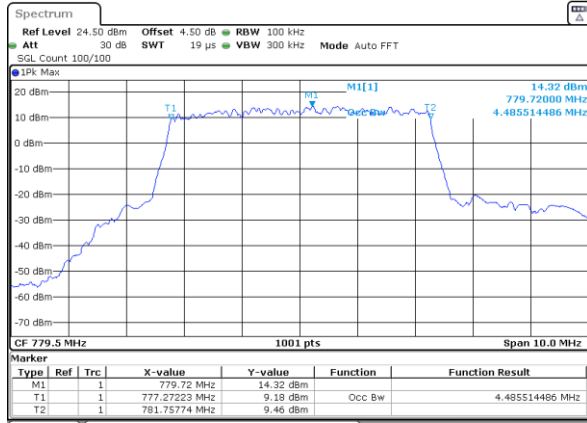
Occupied Bandwidth

Mode	LTE Band 13 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.49	4.46	-	-	-	-	-	-
Middle CH	-	-	-	-	4.49	4.50	8.95	8.93	-	-	-	-
Highest CH	-	-	-	-	4.48	4.48	-	-	-	-	-	-

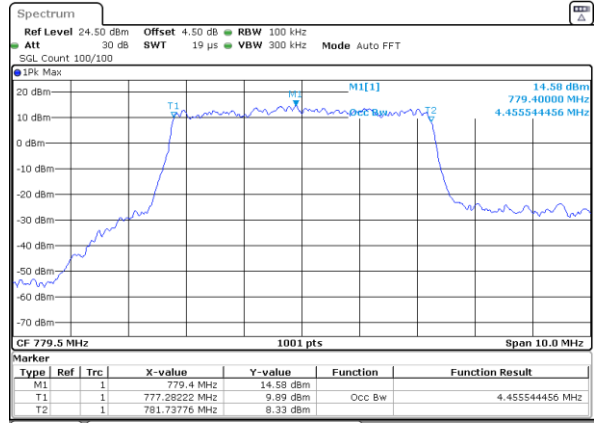


LTE Band 13

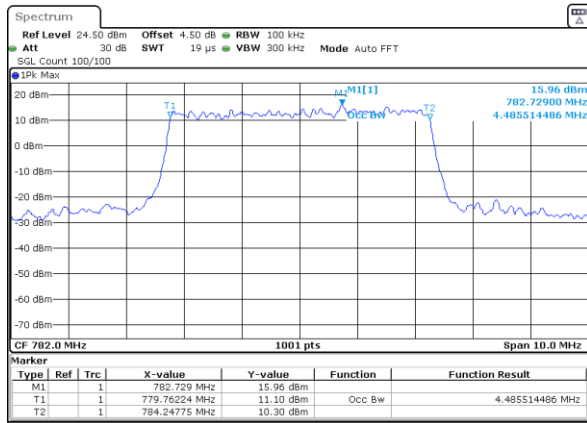
Lowest Channel / 5MHz / QPSK



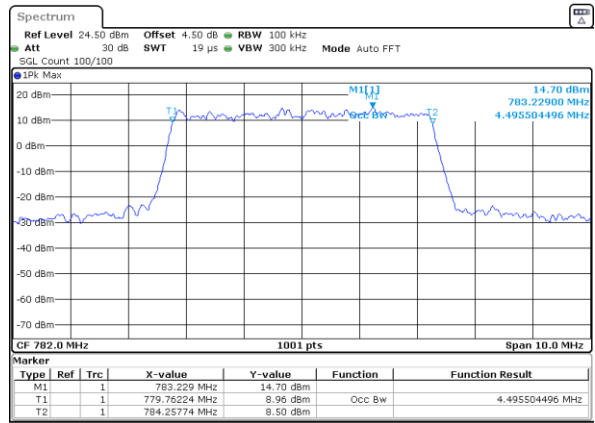
Lowest Channel / 5MHz / 16QAM



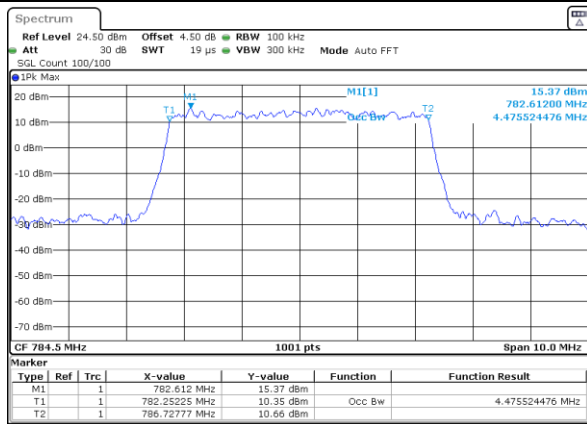
Middle Channel / 5MHz / QPSK



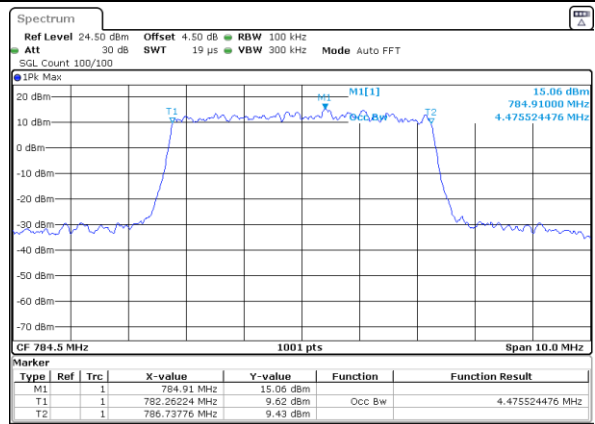
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



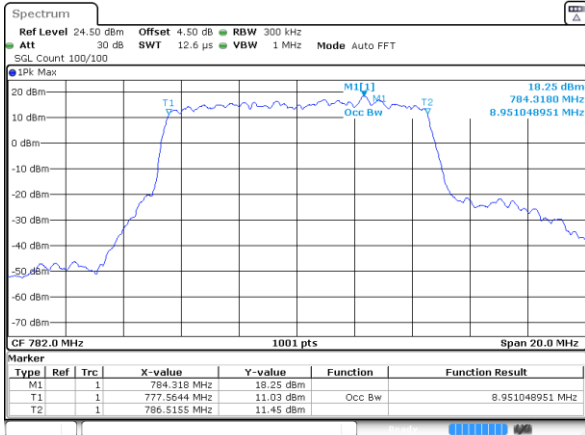
Highest Channel / 5MHz / 16QAM





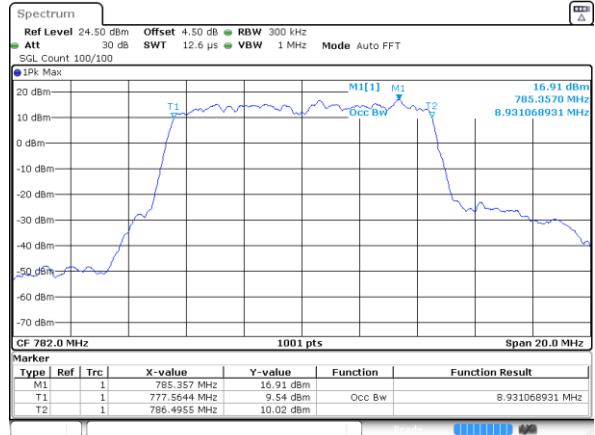
LTE Band 13

Middle Channel / 10MHz / QPSK

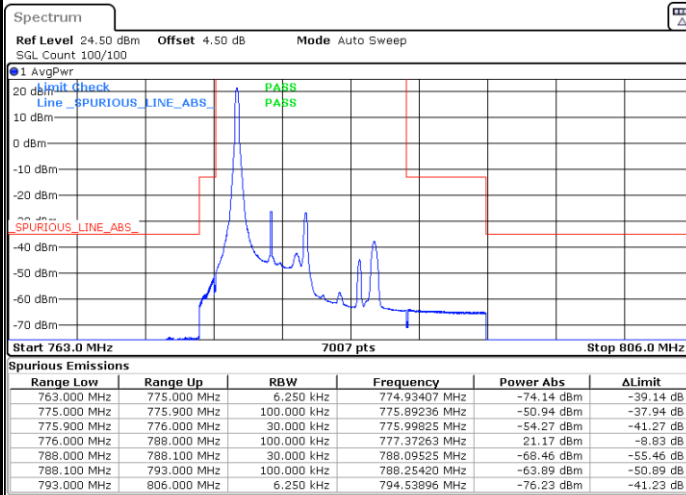
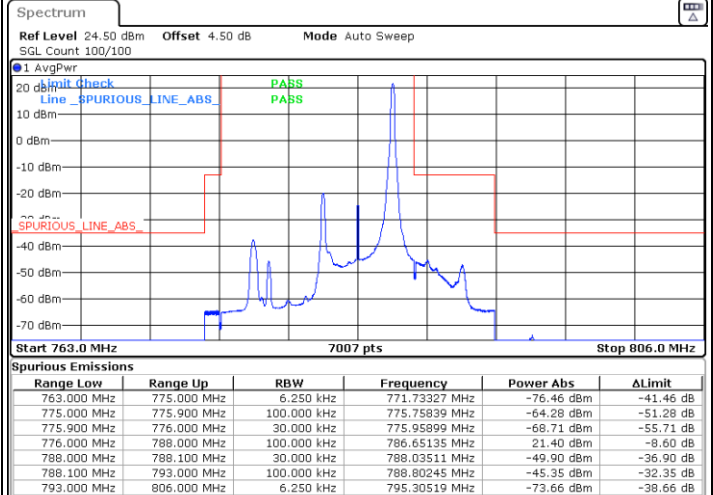
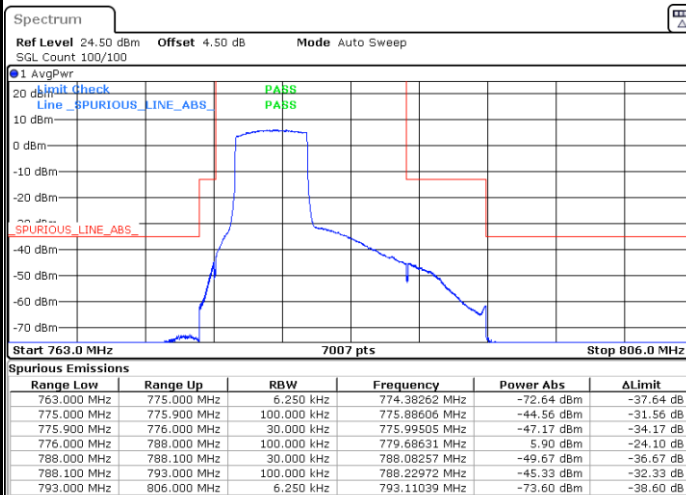
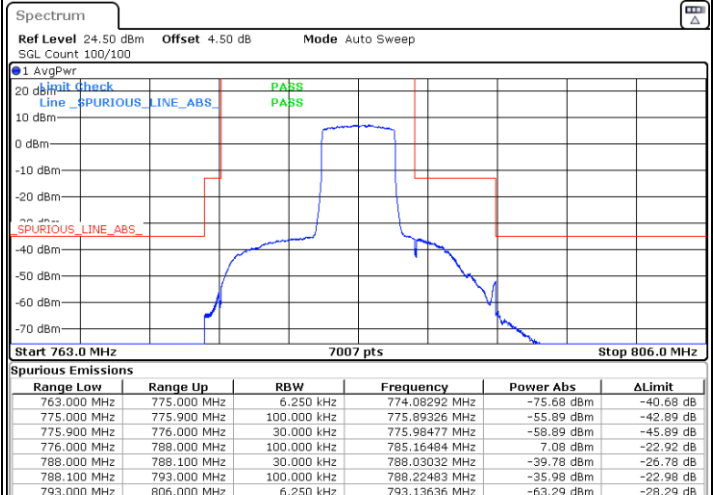


Date: 6 AUG 2020 10:59:55

Middle Channel / 10MHz / 16QAM



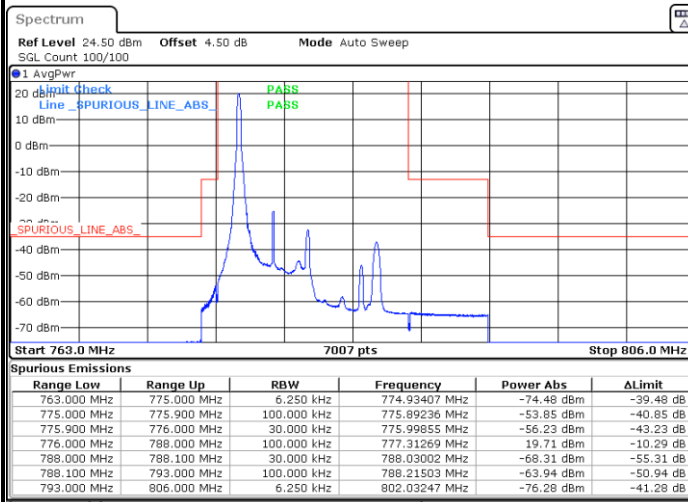
Date: 6 AUG 2020 10:58:14

**Conducted Band Edge****LTE Band 13 / 5MHz / QPSK****Lowest Band Edge / 1 RB****Highest Band Edge / 1 RB****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**

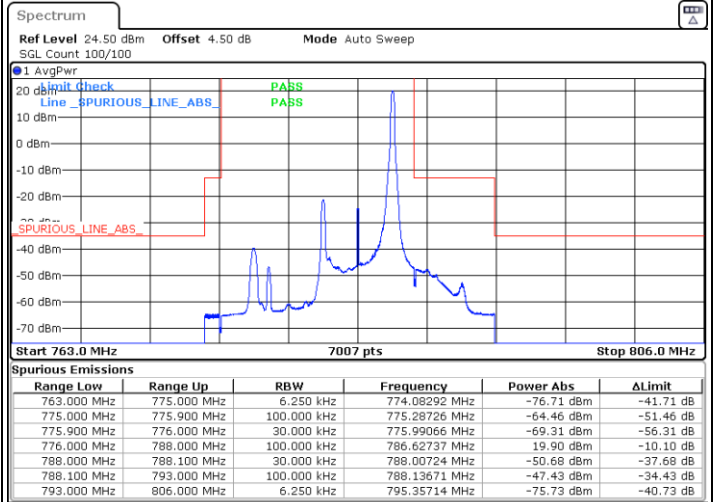


LTE Band 13 / 5MHz / 16QAM

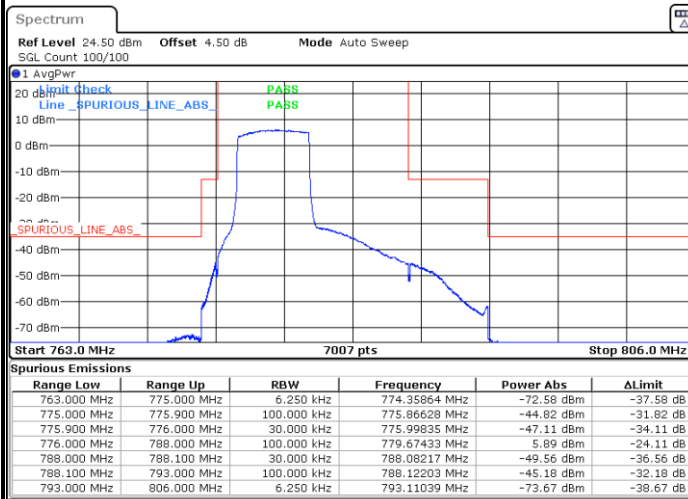
Lowest Band Edge / 1 RB



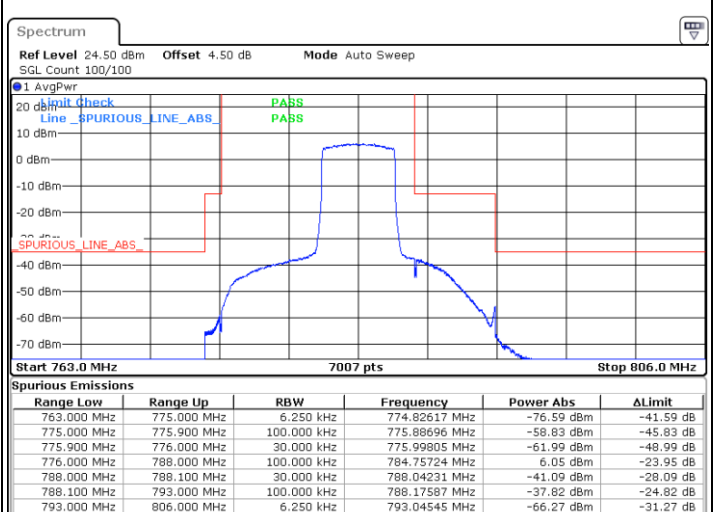
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



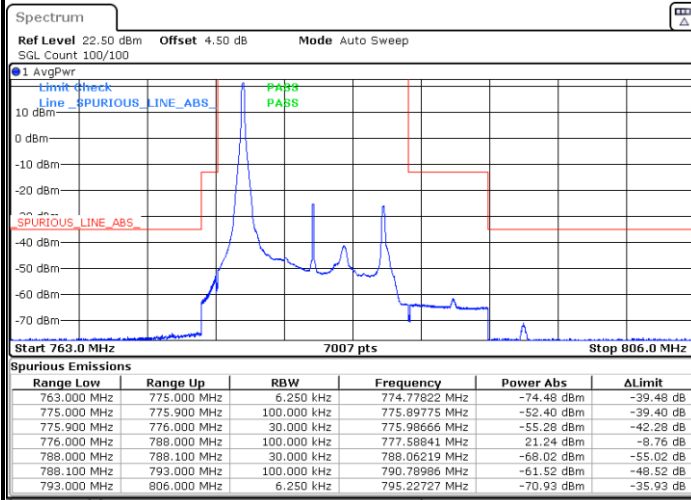
Highest Band Edge / Full RB



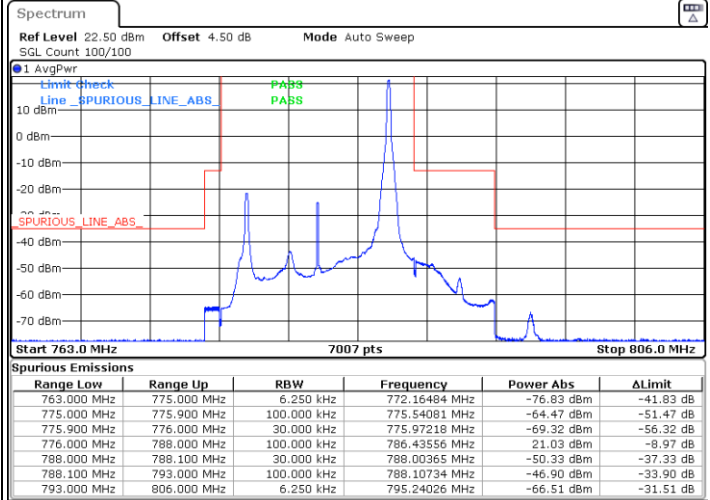


LTE Band 13 / 10MHz / QPSK

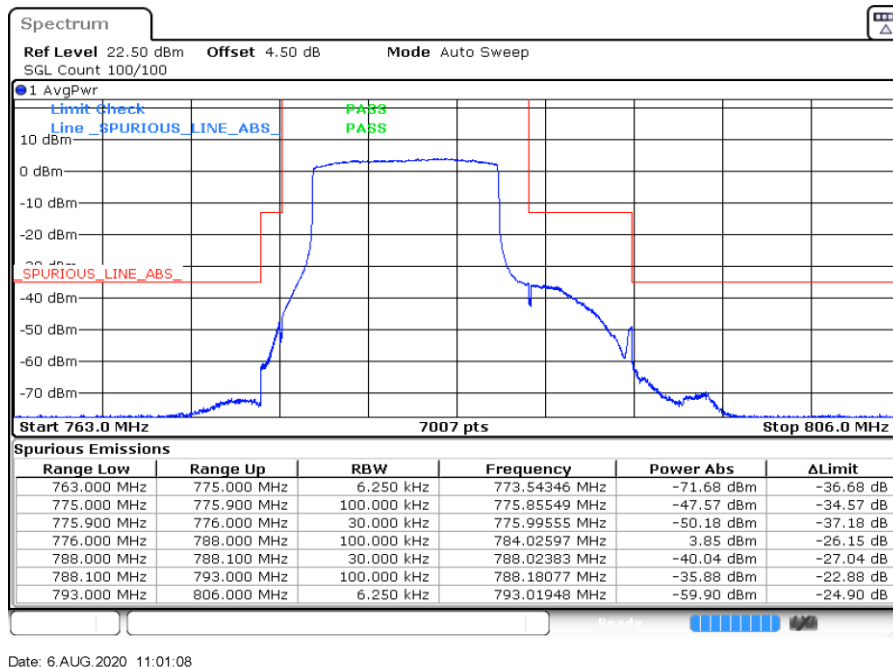
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



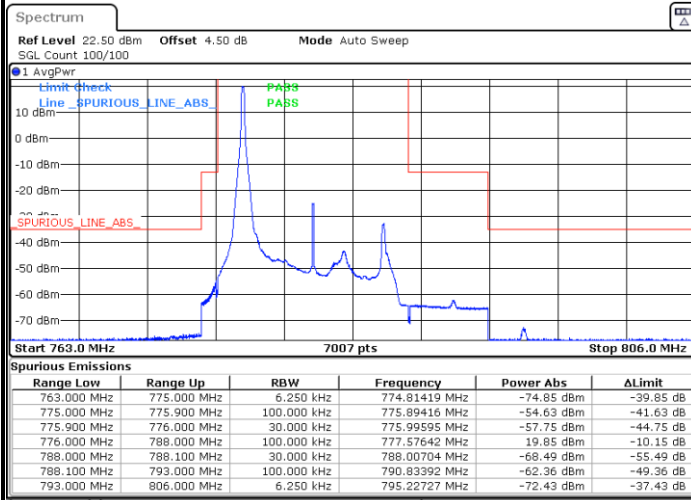
Band Edge / Full RB





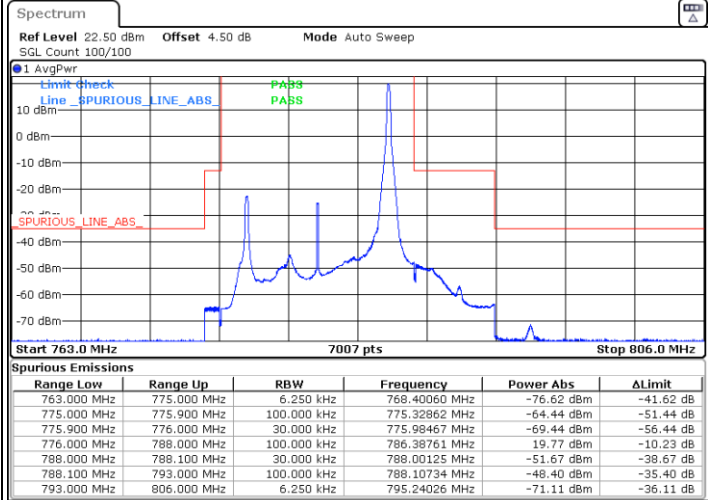
LTE Band 13 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



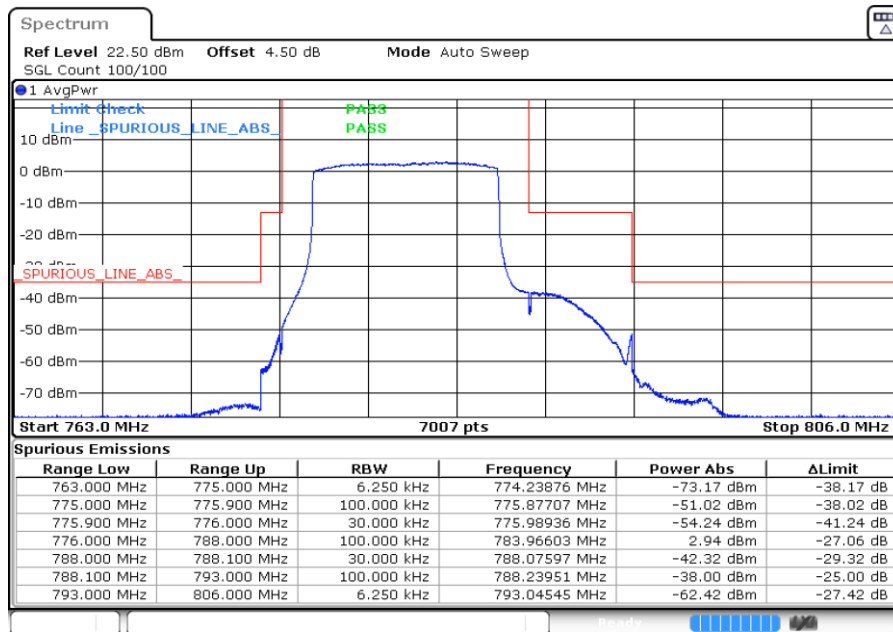
Date: 6.AUG.2020 11:05:06

Highest Band Edge / 1 RB



Date: 6.AUG.2020 11:14:10

Band Edge / Full RB



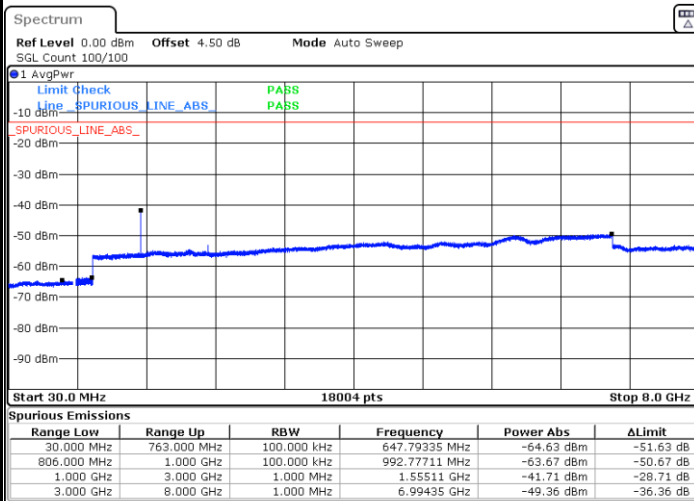
Date: 6.AUG.2020 10:59:30



Conducted Spurious Emission

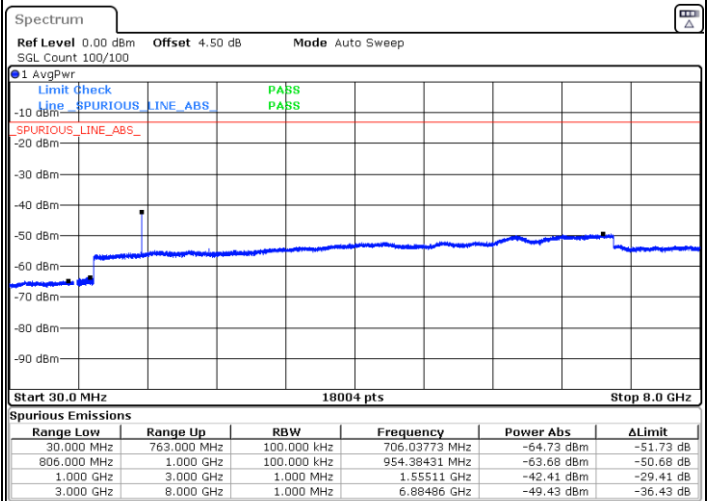
LTE Band 13 / 5MHz

Lowest Channel / QPSK



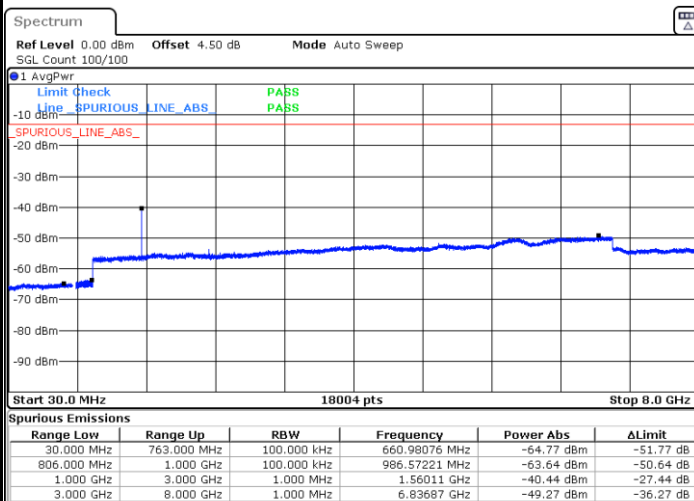
Date: 6 AUG. 2020 10:38:57

Lowest Channel / 16QAM



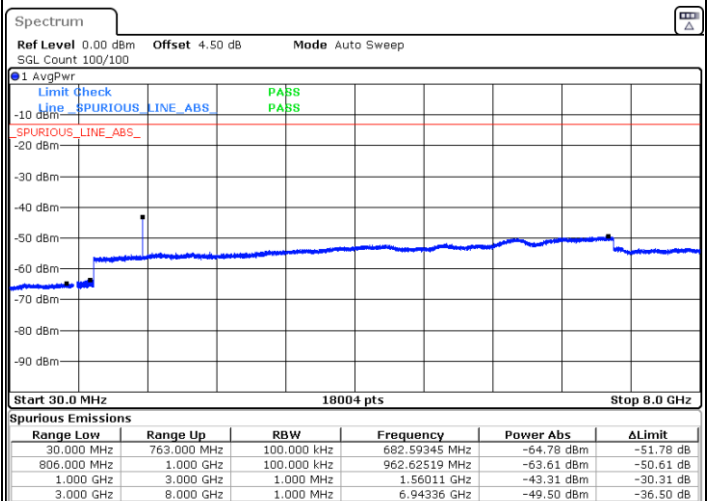
Date: 6 AUG. 2020 10:38:56

Middle Channel / QPSK



Date: 6 AUG. 2020 10:40:09

Middle Channel / 16QAM

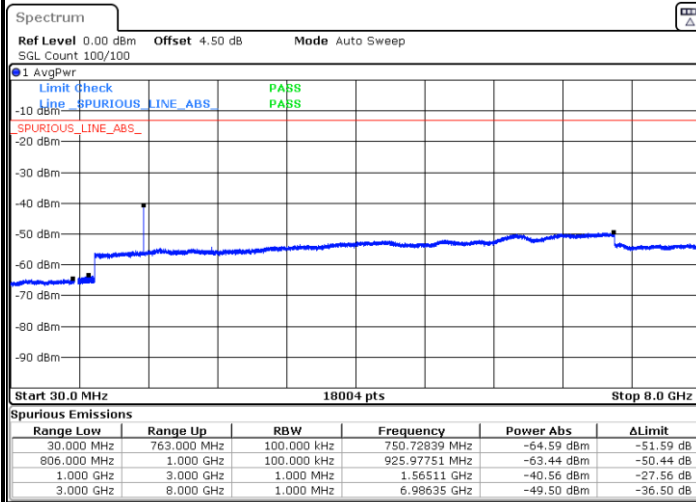


Date: 6 AUG. 2020 10:40:38



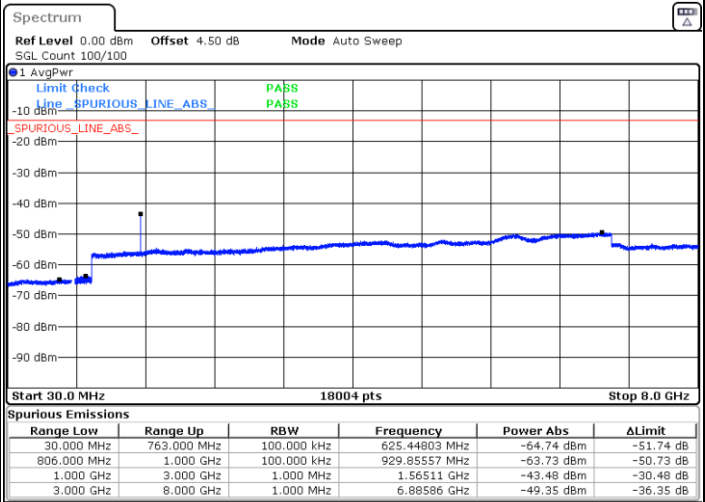
LTE Band 13 / 5MHz

Highest Channel / QPSK



Date: 6 AUG.2020 10:50:28

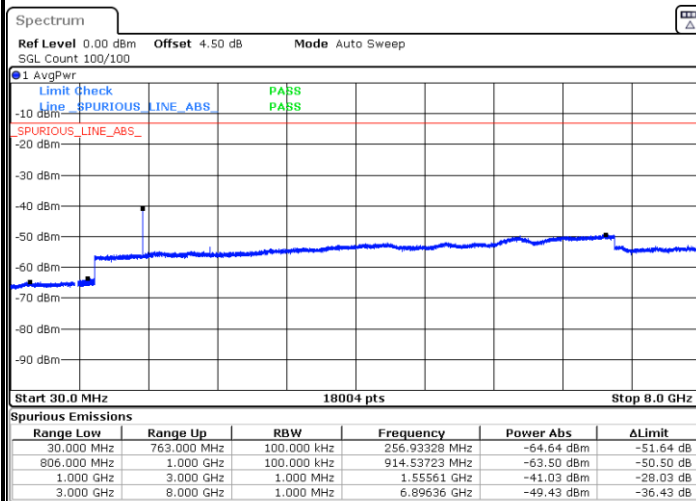
Highest Channel / 16QAM



Date: 6 AUG.2020 10:49:52

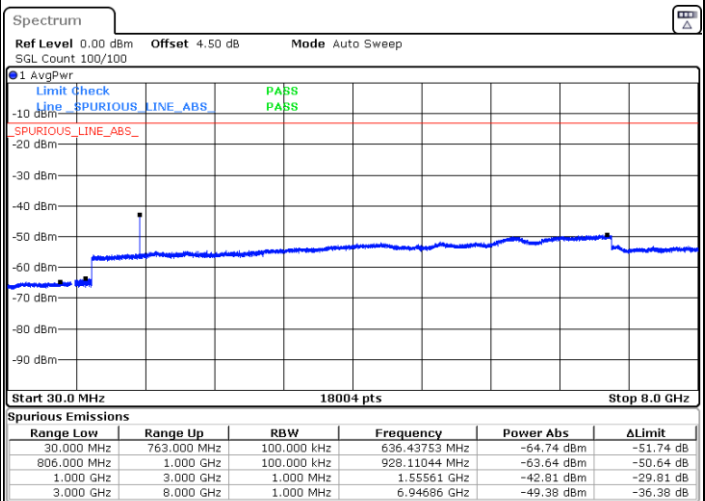
LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 6 AUG.2020 11:03:41

Middle Channel / 16QAM



Date: 6 AUG.2020 11:06:04

Frequency Stability

Test Conditions		LTE Band 13 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0008	PASS
40	Normal Voltage	0.0004	
30	Normal Voltage	0.0016	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0019	
0	Normal Voltage	0.0002	
-10	Normal Voltage	0.0004	
-20	Normal Voltage	0.0001	
-30	Normal Voltage	0.0018	
20	Maximum Voltage	0.0002	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0005	

Note:

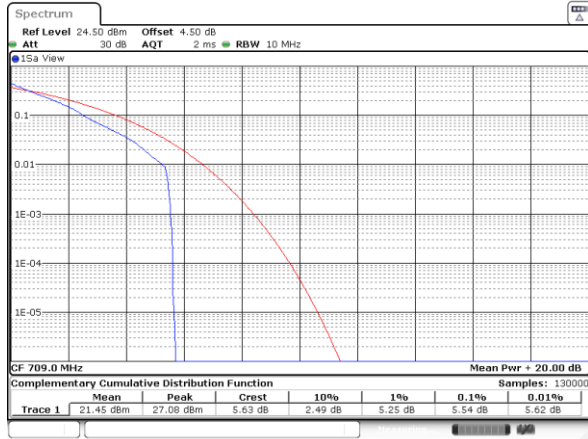
1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.2 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



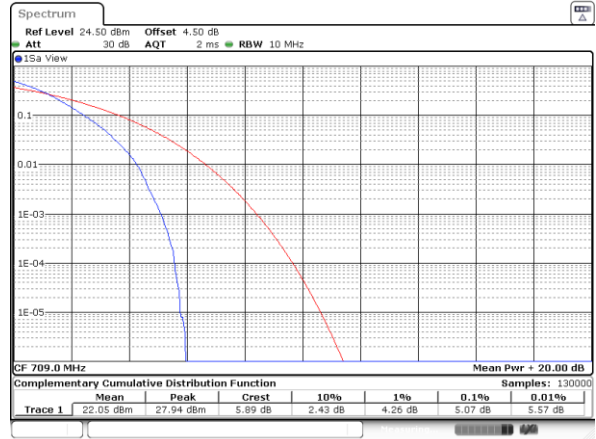
LTE Band 17

Peak-to-Average Ratio

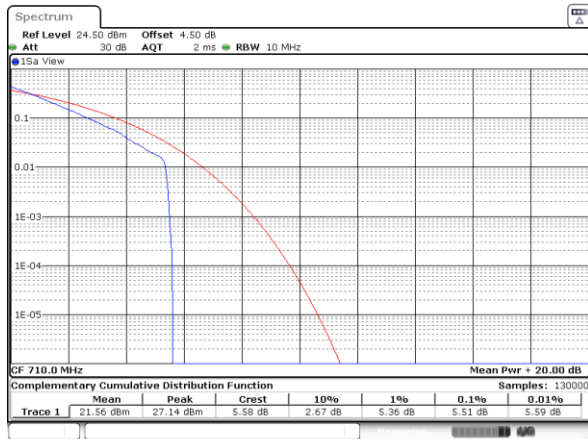
Mode	LTE Band 17 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	5.54	5.07	5.86	6.06	PASS
Middle CH	5.51	5.04	6.14	6.03	
Highest CH	5.42	5.13	6.09	5.97	

LTE Band 17 / 10MHz / QPSK
Lowest Channel / 1RB


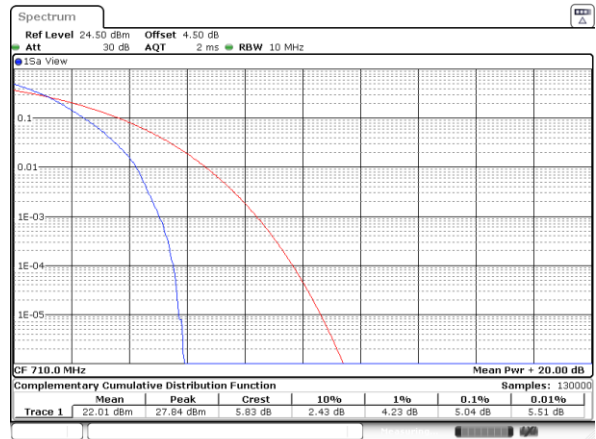
Date: 6 AUG 2020 11:55:41

Lowest Channel / Full RB


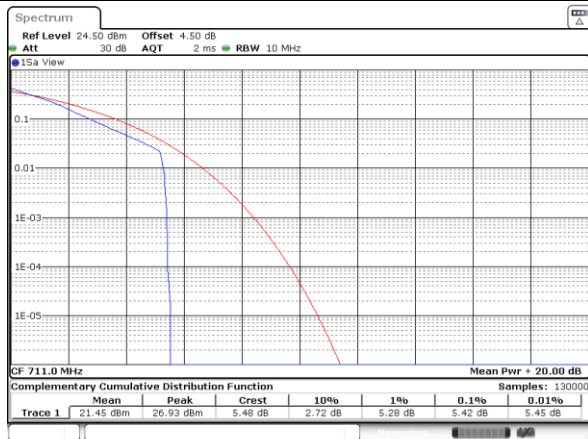
Date: 6 AUG 2020 11:53:54

Middle Channel / 1RB


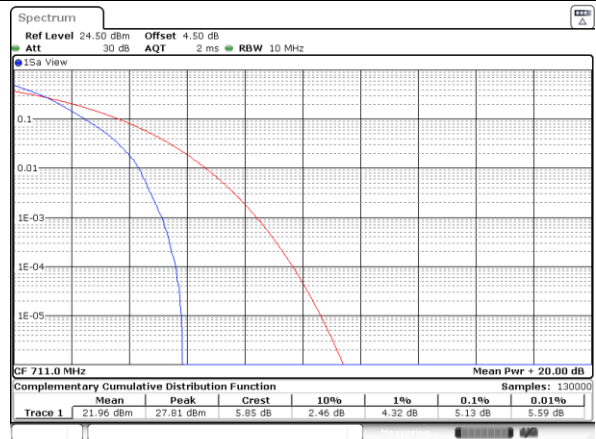
Date: 6 AUG 2020 12:06:17

Middle Channel / Full RB


Date: 6 AUG 2020 12:07:19

Highest Channel / 1RB


Date: 6 AUG 2020 12:14:14

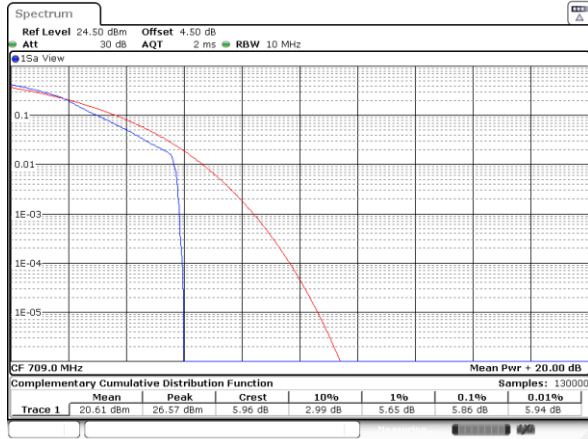
Highest Channel / Full RB


Date: 6 AUG 2020 12:13:14

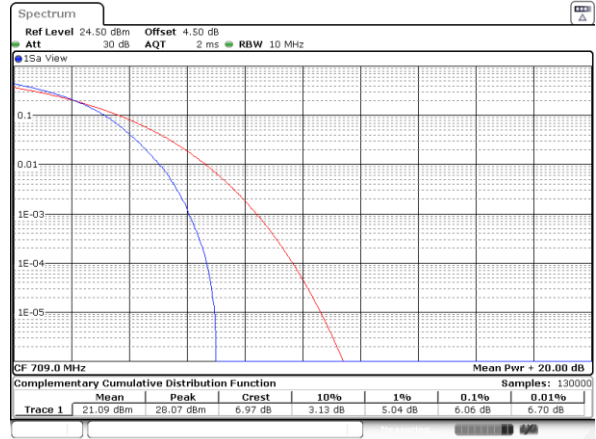


LTE Band 17 / 10MHz / 16QAM

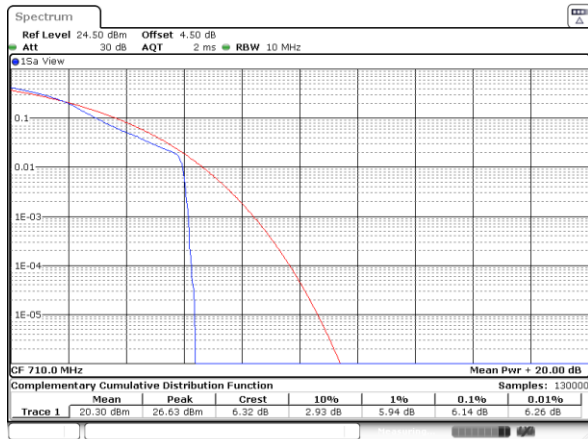
Lowest Channel / 1RB



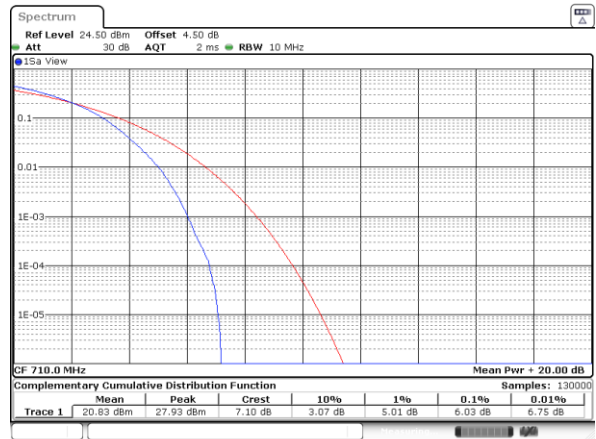
Lowest Channel / Full RB



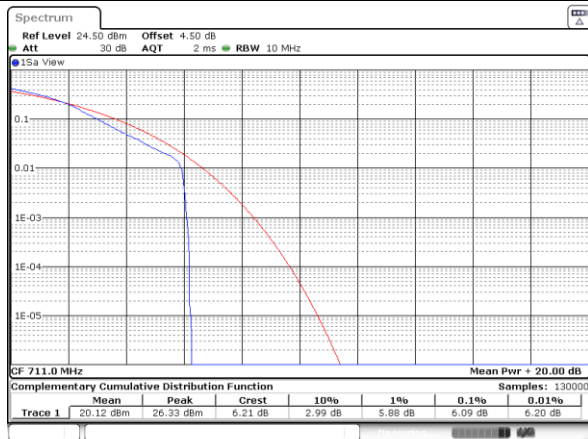
Middle Channel / 1RB



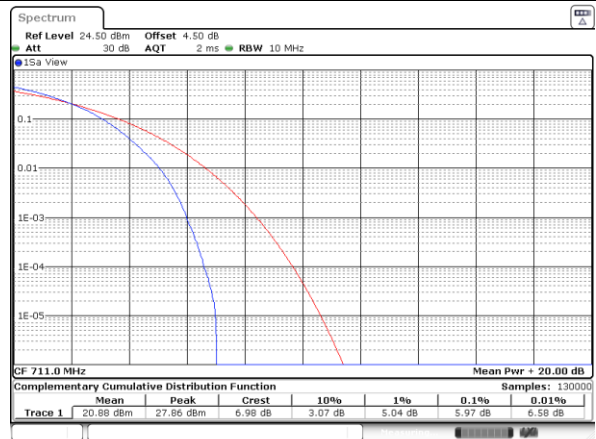
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB





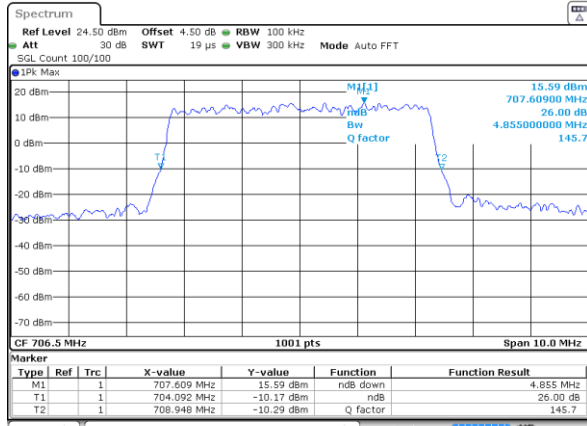
26dB Bandwidth

Mode	LTE Band 17 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.86	4.92	9.91	9.79	-	-	-	-
Middle CH	-	-	-	-	4.95	4.92	9.93	9.81	-	-	-	-
Highest CH	-	-	-	-	4.95	4.90	9.69	9.93	-	-	-	-

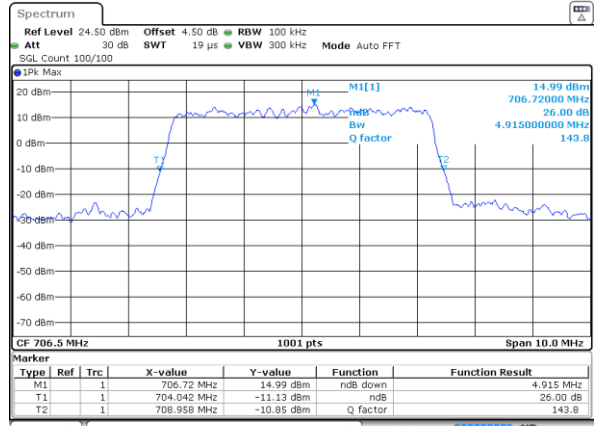


LTE Band 17

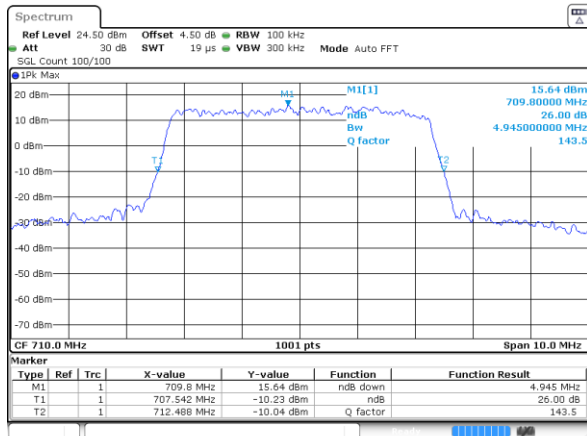
Lowest Channel / 5MHz / QPSK



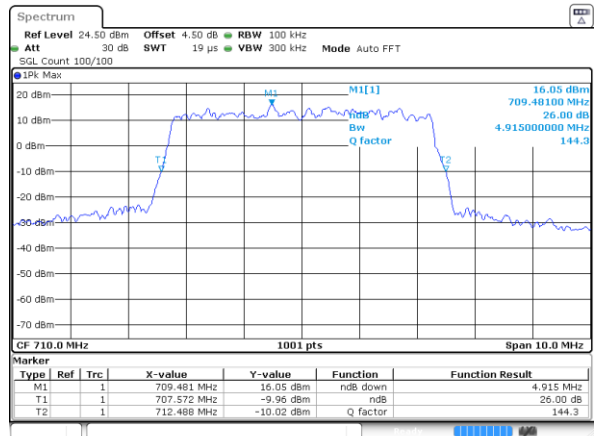
Lowest Channel / 5MHz / 16QAM



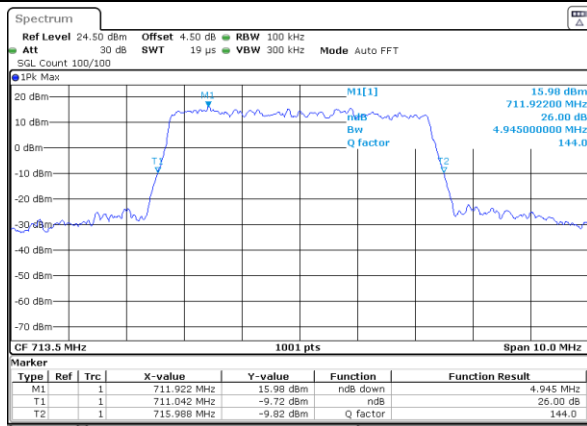
Middle Channel / 5MHz / QPSK



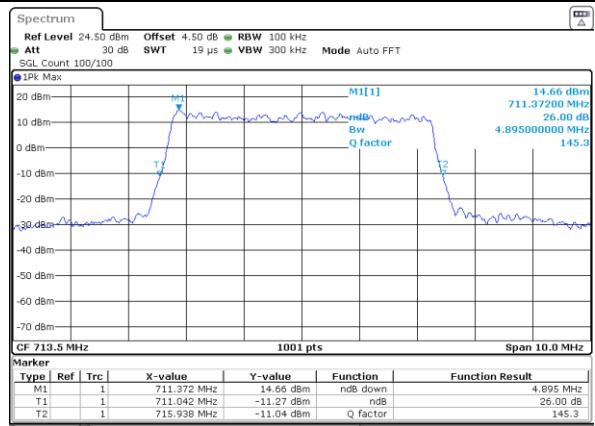
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



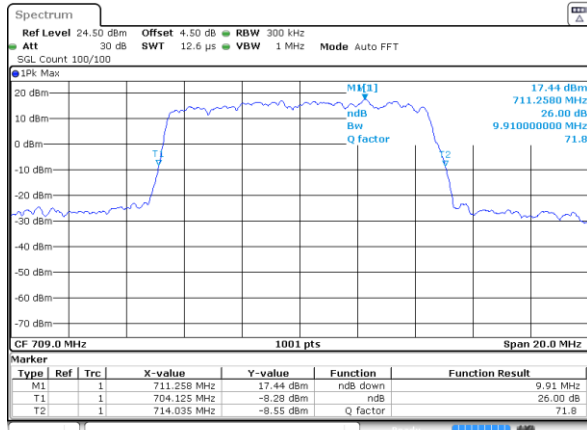
Highest Channel / 5MHz / 16QAM





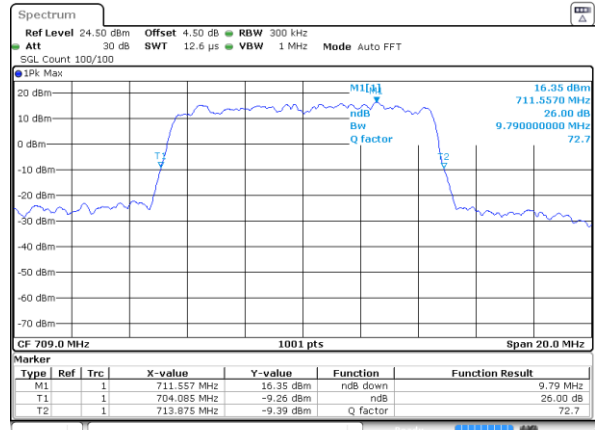
LTE Band 17

Lowest Channel / 10MHz / QPSK



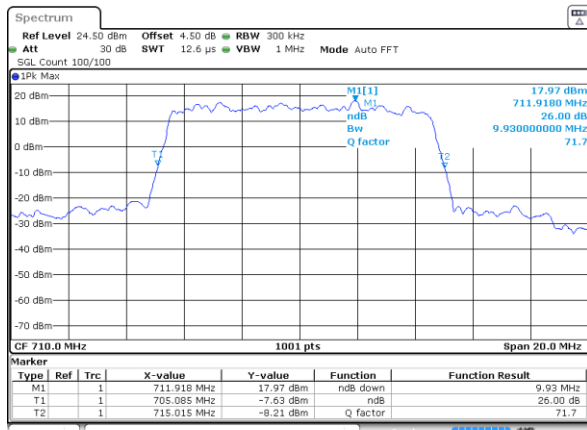
Date: 6 AUG 2020 11:52:57

Lowest Channel / 10MHz / 16QAM



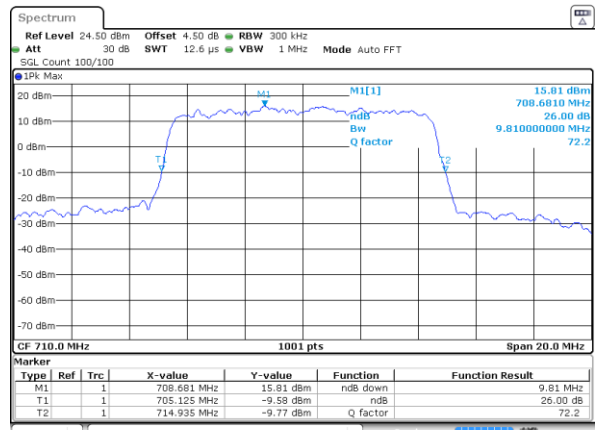
Date: 6 AUG 2020 11:51:28

Middle Channel / 10MHz / QPSK



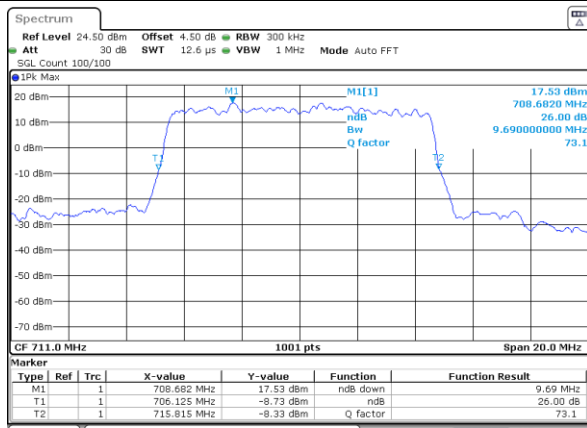
Date: 6 AUG 2020 12:07:06

Middle Channel / 10MHz / 16QAM



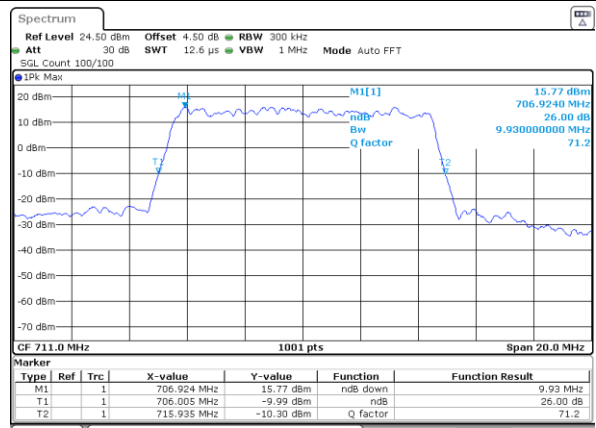
Date: 6 AUG 2020 12:07:47

Highest Channel / 10MHz / QPSK



Date: 6 AUG 2020 12:12:30

Highest Channel / 10MHz / 16QAM



Date: 6 AUG 2020 12:10:54



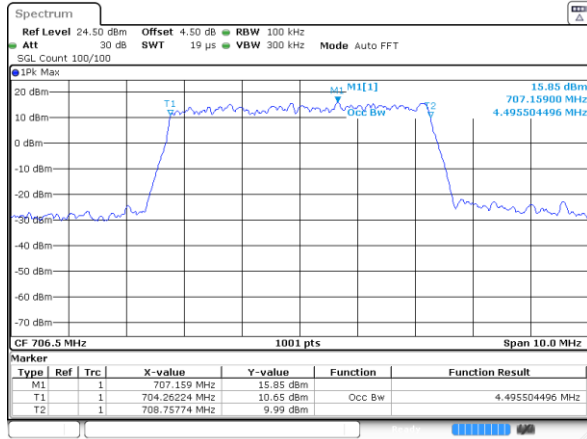
Occupied Bandwidth

Mode	LTE Band 17 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.50	4.47	8.91	8.95	-	-	-	-
Middle CH	-	-	-	-	4.48	4.48	8.93	8.95	-	-	-	-
Highest CH	-	-	-	-	4.51	4.50	9.03	9.03	-	-	-	-

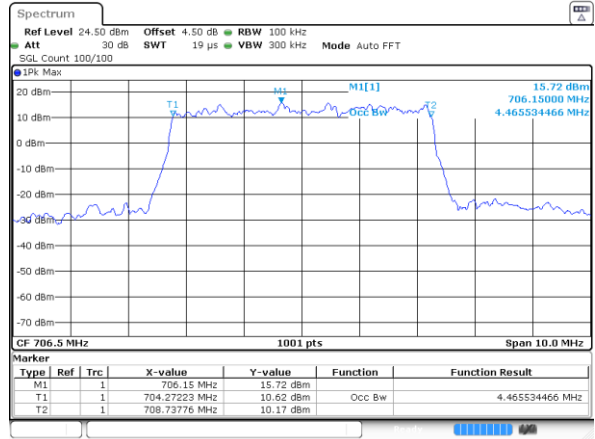


LTE Band 17

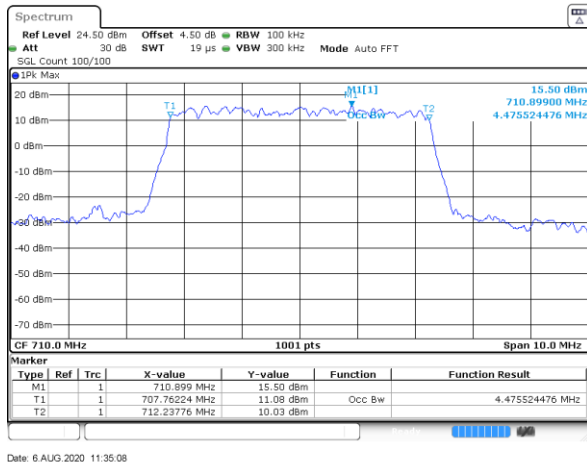
Lowest Channel / 5MHz / QPSK



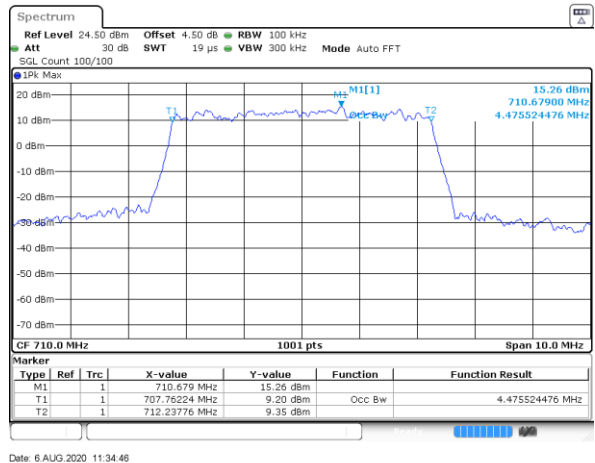
Lowest Channel / 5MHz / 16QAM



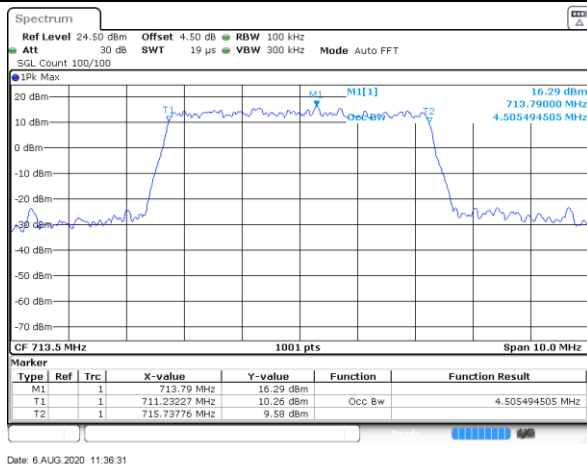
Middle Channel / 5MHz / QPSK



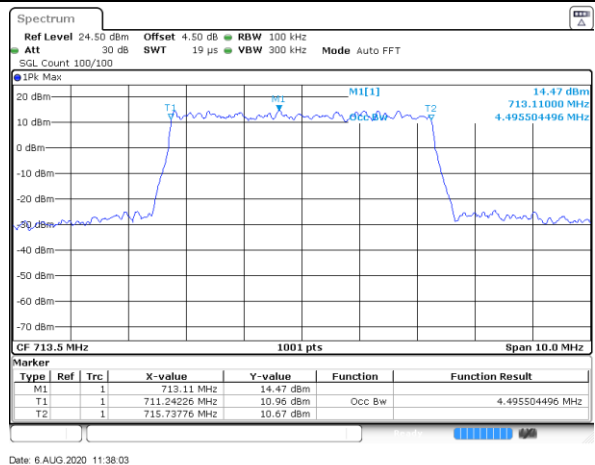
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



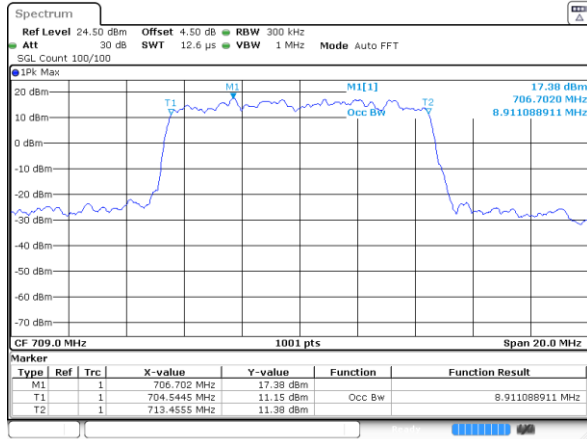
Highest Channel / 5MHz / 16QAM





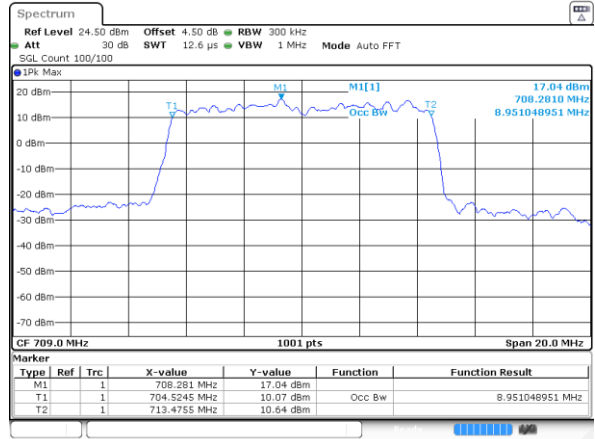
LTE Band 17

Lowest Channel / 10MHz / QPSK



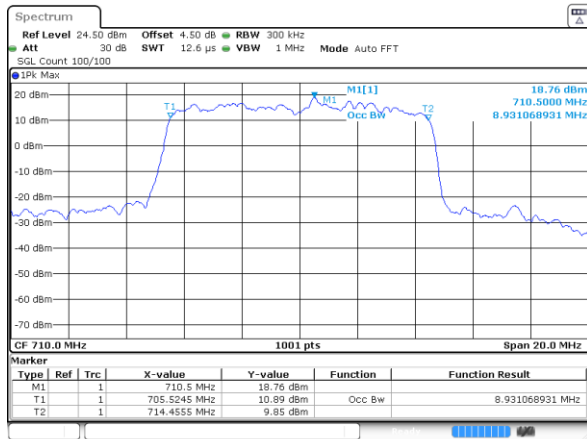
Date: 6 AUG 2020 11:52:50

Lowest Channel / 10MHz / 16QAM



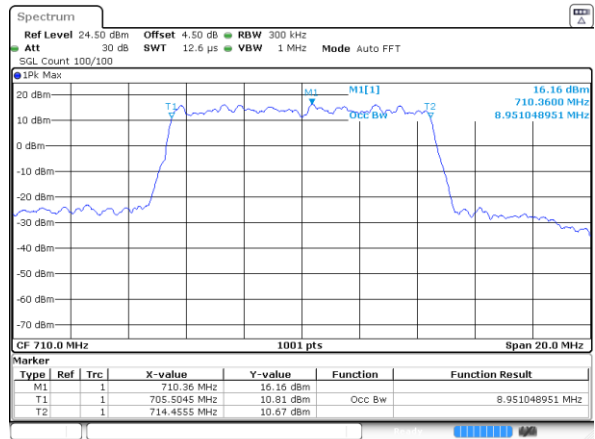
Date: 6 AUG 2020 11:51:22

Middle Channel / 10MHz / QPSK



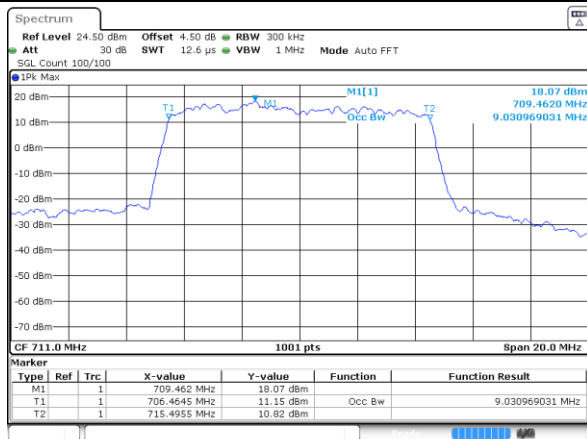
Date: 6 AUG 2020 12:06:58

Middle Channel / 10MHz / 16QAM



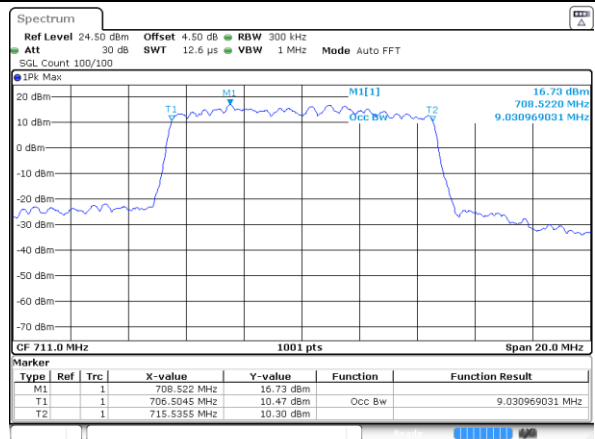
Date: 6 AUG 2020 12:07:37

Highest Channel / 10MHz / QPSK

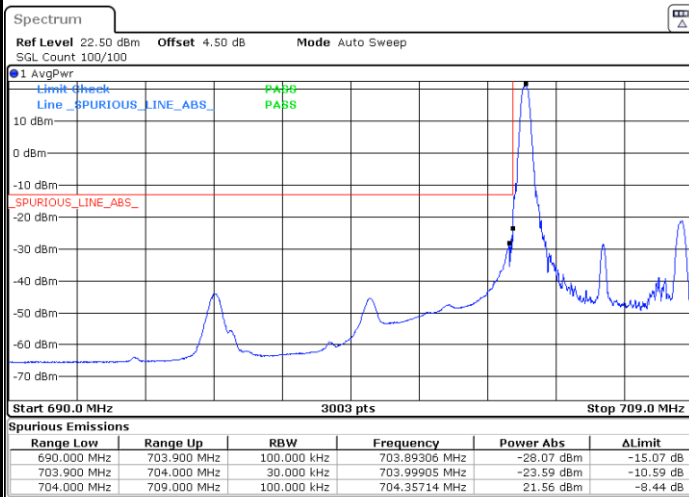
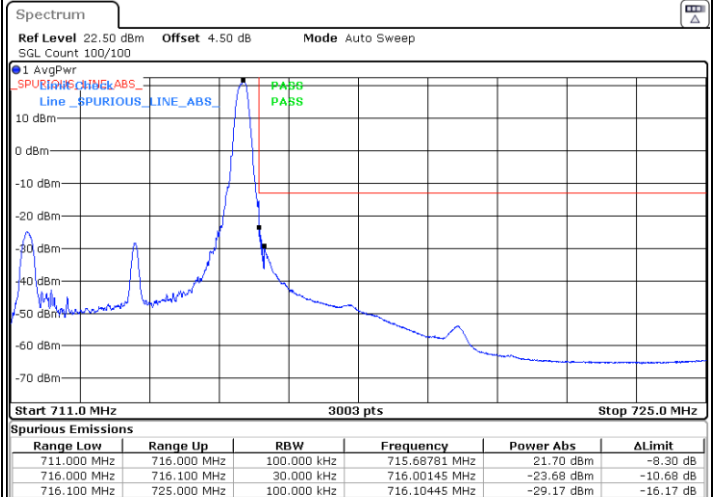
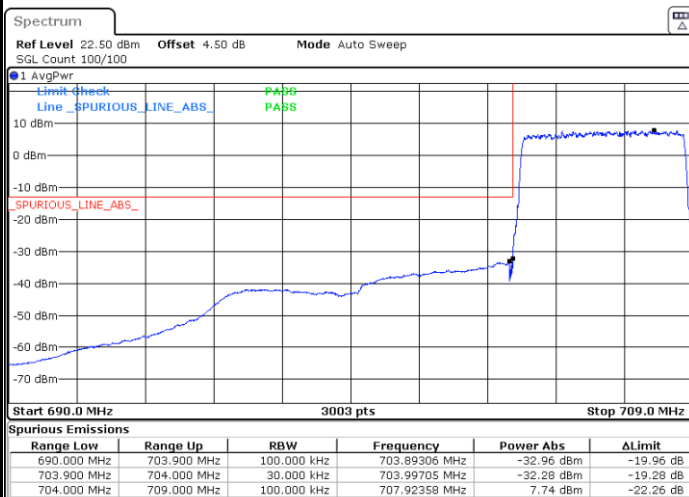
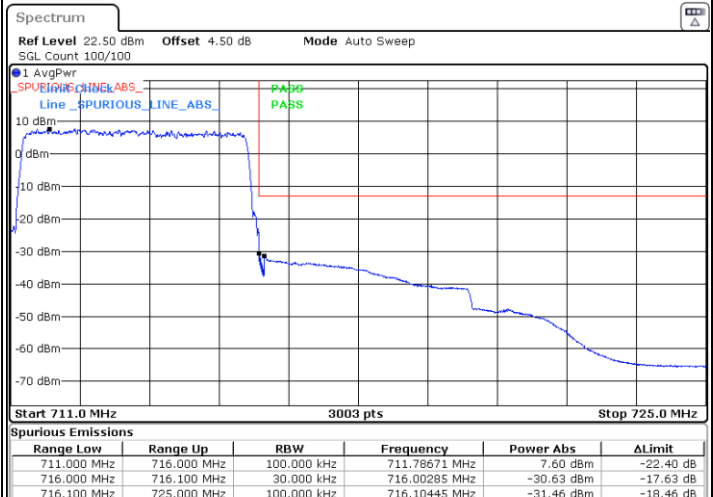


Date: 6 AUG 2020 12:12:23

Highest Channel / 10MHz / 16QAM



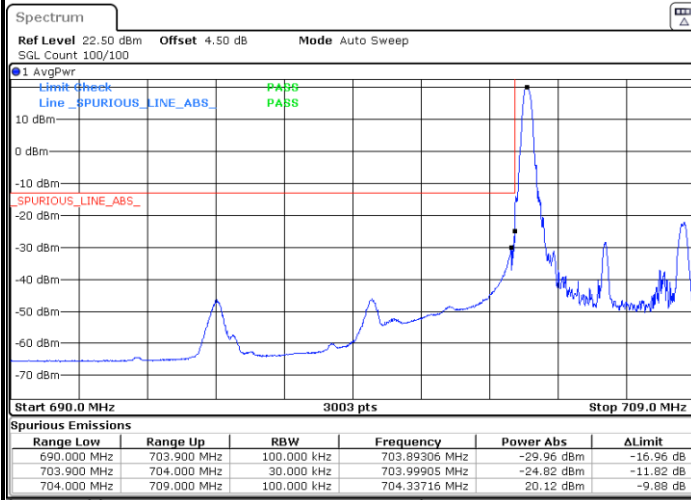
Date: 6 AUG 2020 12:10:47

**Conducted Band Edge****LTE Band 17 / 5MHz / QPSK****Lowest Band Edge / 1 RB****Highest Band Edge / 1 RB****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**

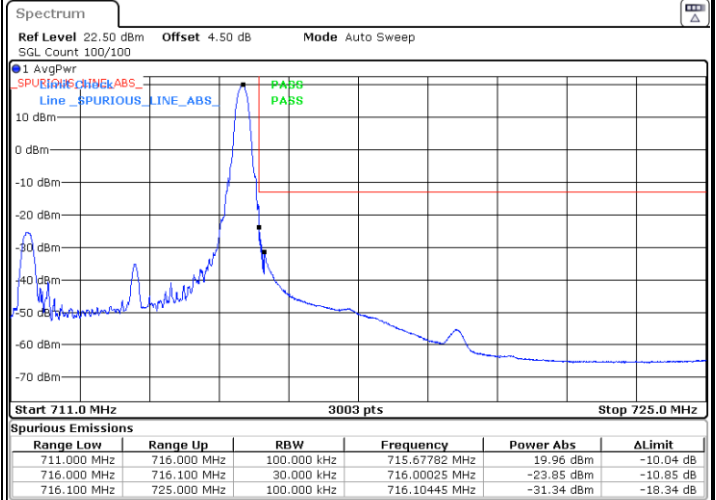


LTE Band 17 / 5MHz / 16QAM

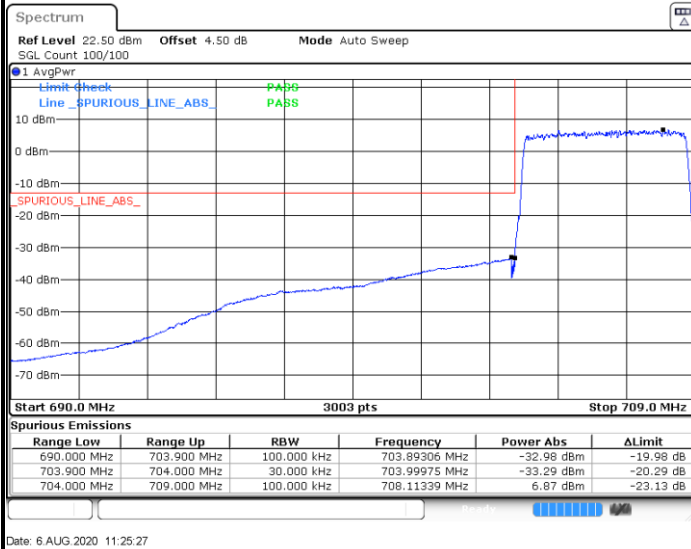
Lowest Band Edge / 1 RB



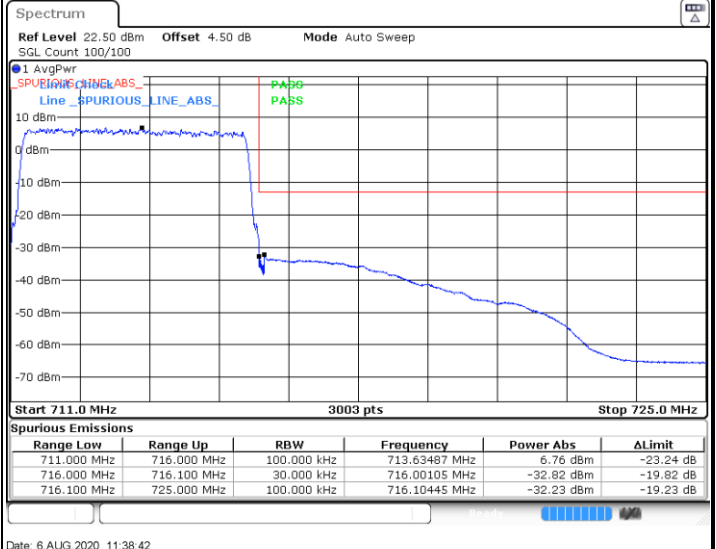
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



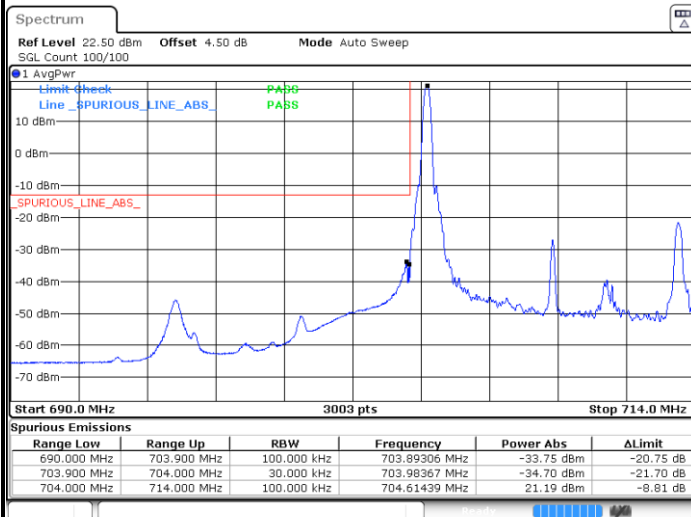
Highest Band Edge / Full RB



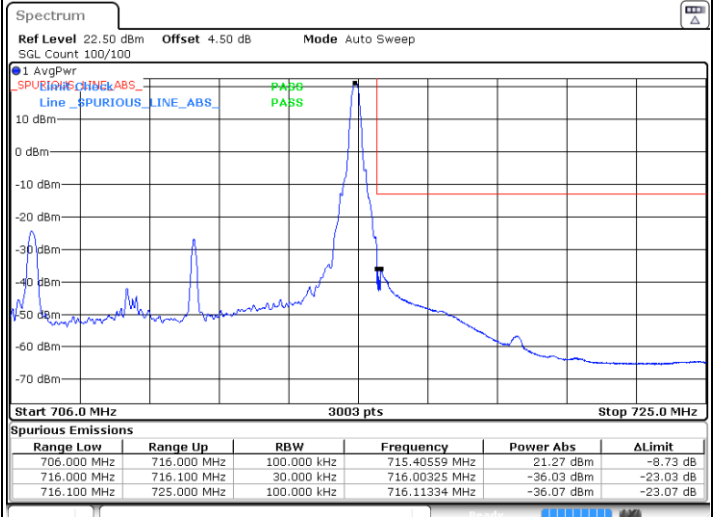


LTE Band 17 / 10MHz / QPSK

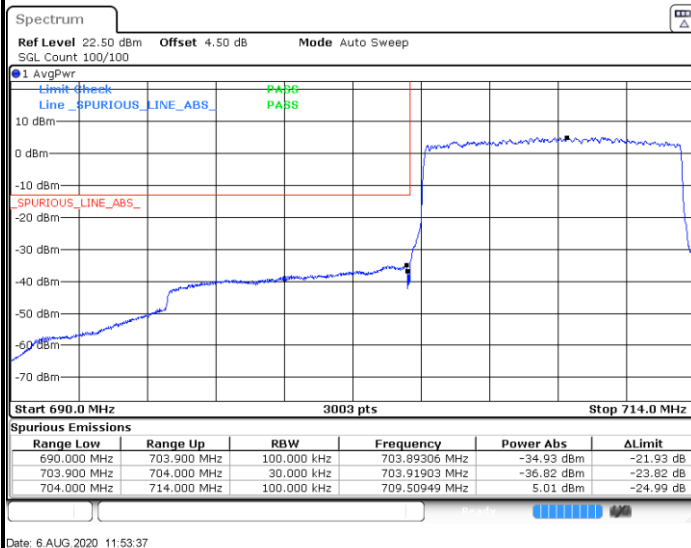
Lowest Band Edge / 1 RB



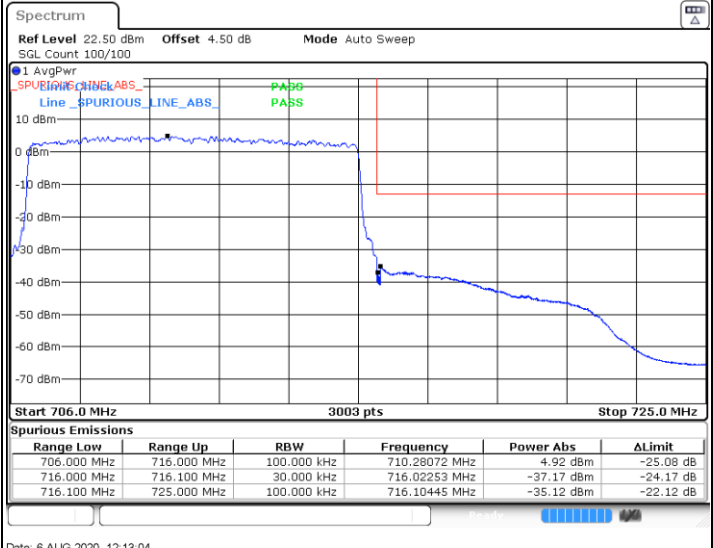
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



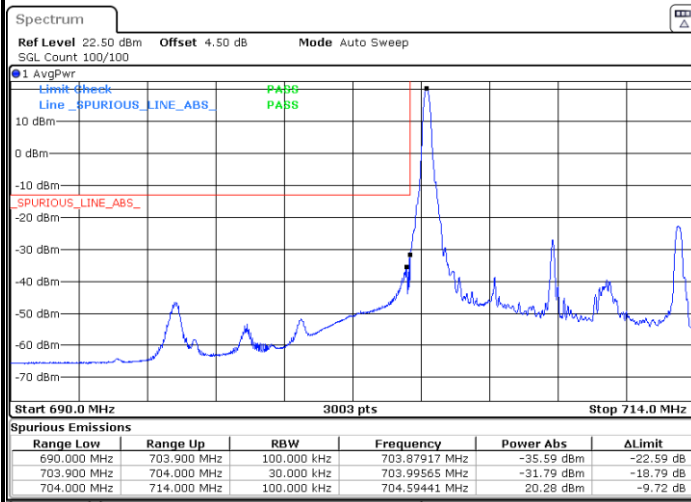
Highest Band Edge / Full RB



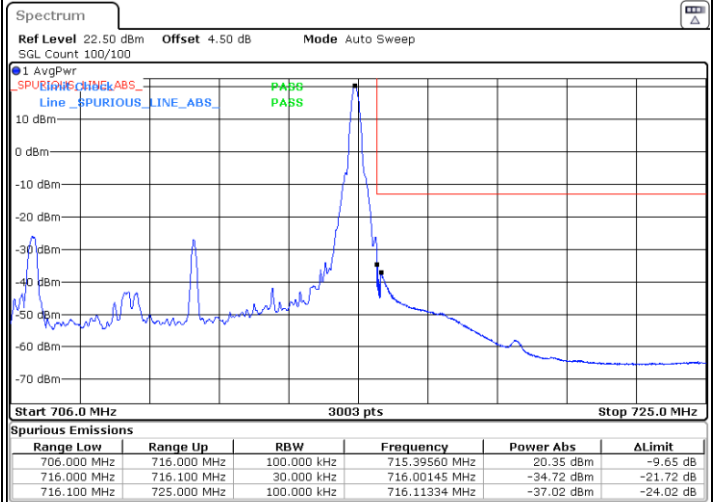


LTE Band 17 / 10MHz / 16QAM

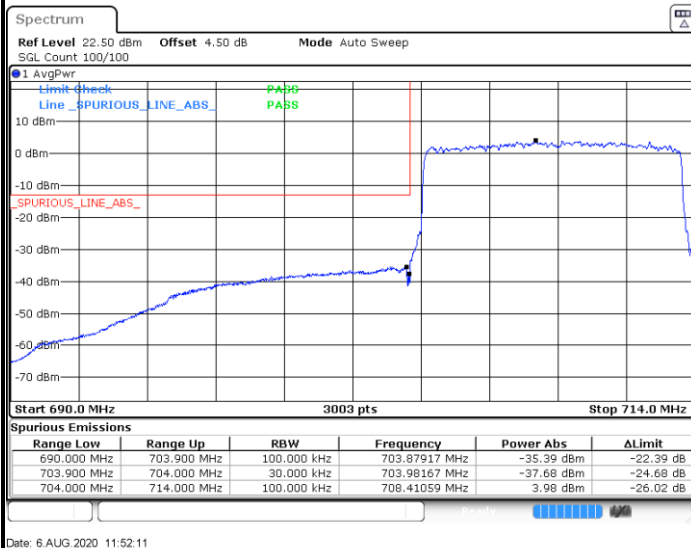
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

