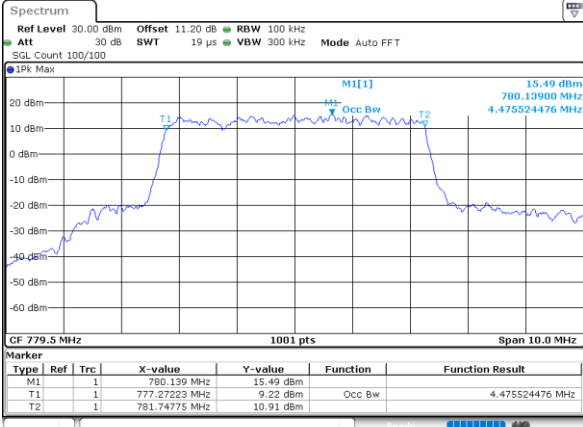




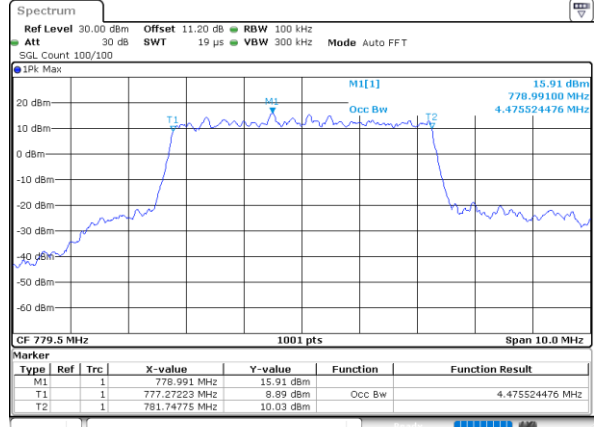
LTE Band 13

Lowest Channel / 5MHz / QPSK



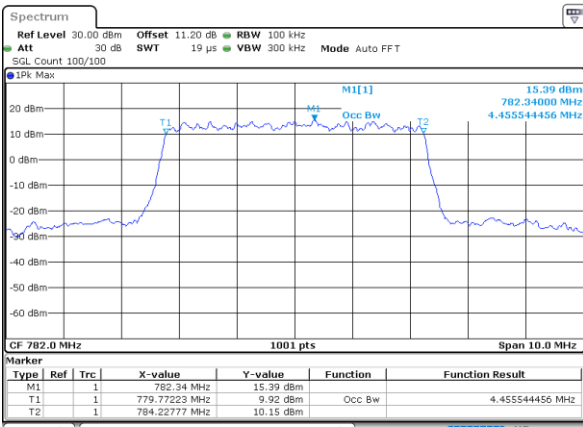
Date: 18_AUG.2020 10:16:30

Lowest Channel / 5MHz / 16QAM



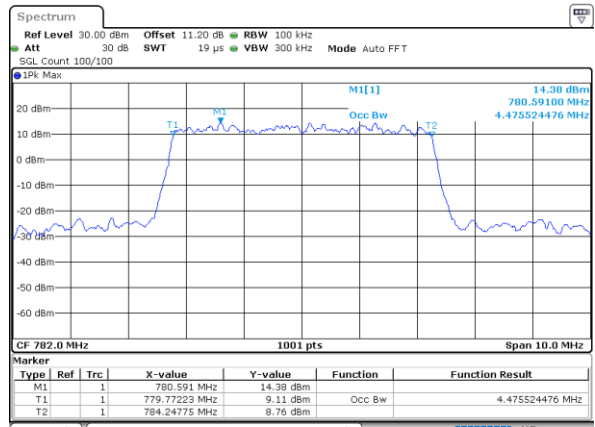
Date: 18_AUG.2020 10:16:50

Middle Channel / 5MHz / QPSK



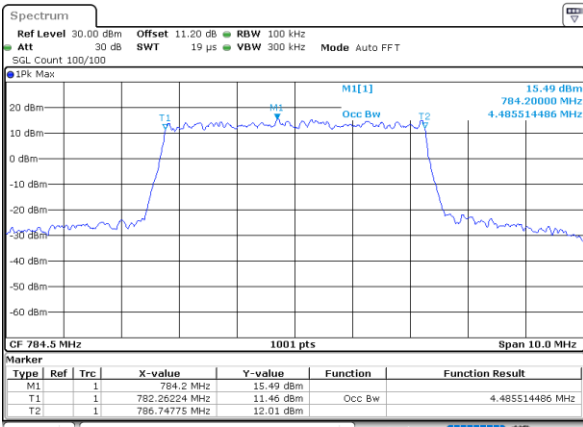
Date: 18_AUG.2020 10:27:06

Middle Channel / 5MHz / 16QAM



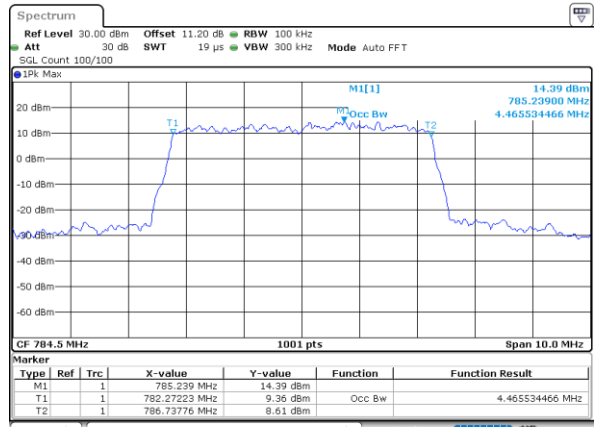
Date: 18_AUG.2020 10:27:05

Highest Channel / 5MHz / QPSK



Date: 18_AUG.2020 10:27:40

Highest Channel / 5MHz / 16QAM

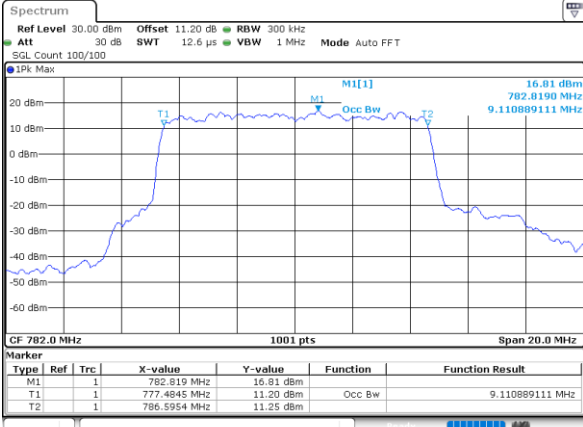


Date: 18_AUG.2020 10:27:59



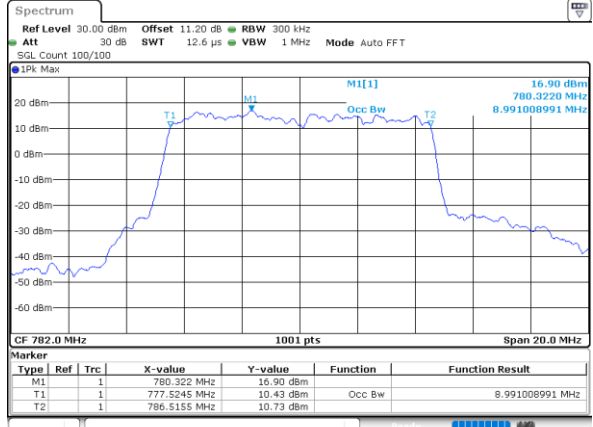
LTE Band 13

Middle Channel / 10MHz / QPSK



Date: 18_AUG.2020 10:46:46

Middle Channel / 10MHz / 16QAM

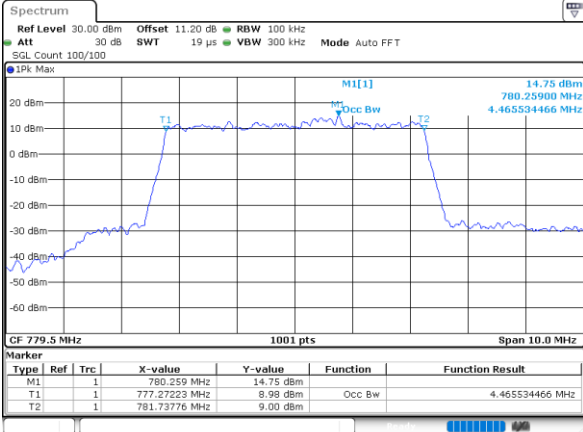


Date: 18_AUG.2020 10:46:58



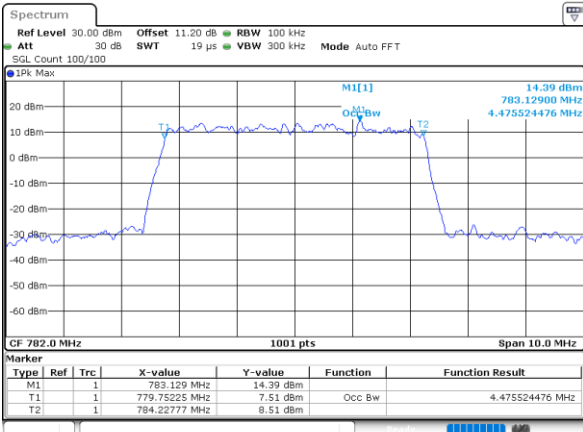
LTE Band 13

Lowest Channel / 5MHz / 64QAM



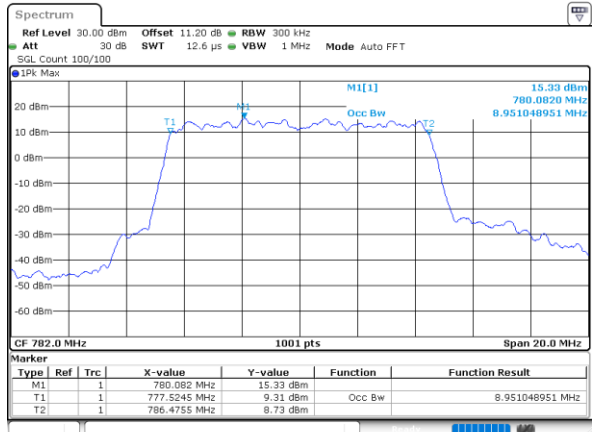
Date: 18_AUG.2020 10:36:44

Middle Channel / 5MHz / 64QAM



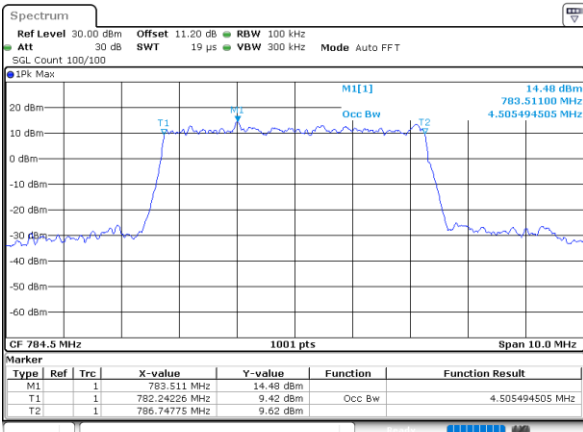
Date: 18_AUG.2020 10:42:07

Middle Channel / 10MHz / 64QAM



Date: 18_AUG.2020 10:58:56

Highest Channel / 5MHz / 64QAM

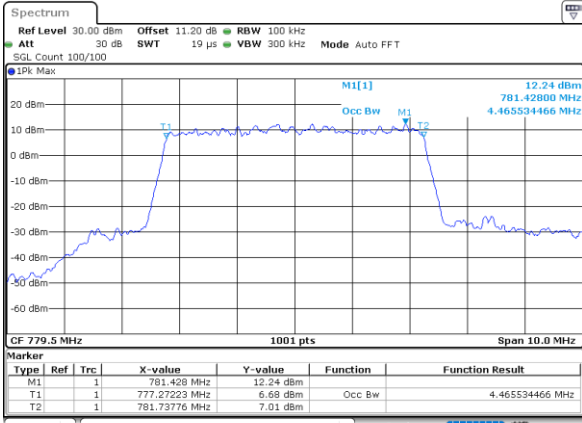


Date: 18_AUG.2020 10:42:18



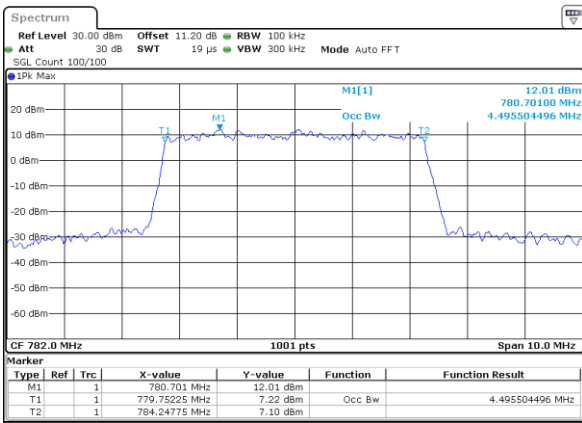
LTE Band 13

Lowest Channel / 5MHz / 256QAM



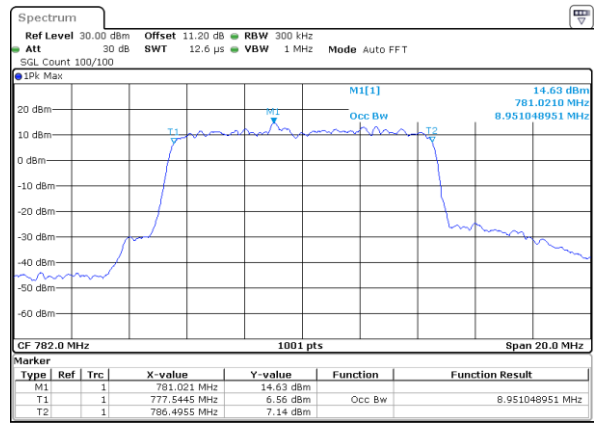
Date: 19_AUG.2020 11:02:35

Middle Channel / 5MHz / 256QAM



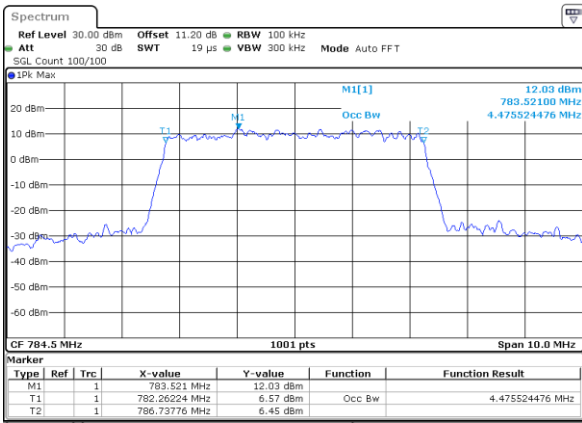
Date: 19_AUG.2020 11:01:25

Middle Channel / 10MHz / 256QAM



Date: 19_AUG.2020 11:09:30

Highest Channel / 5MHz / 256QAM



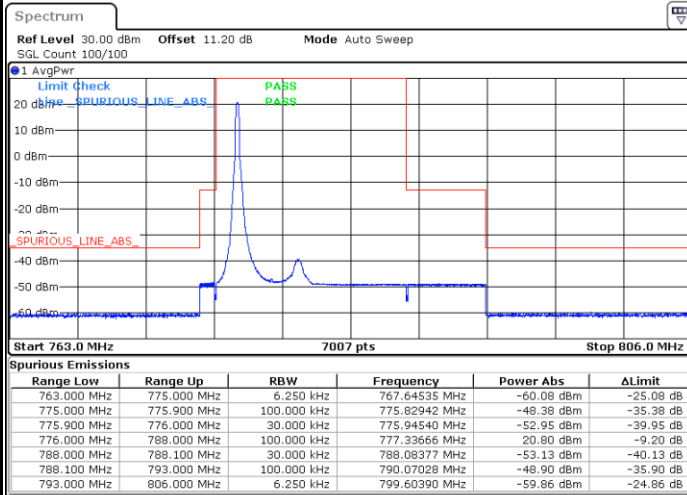
Date: 19_AUG.2020 11:06:06



Conducted Band Edge

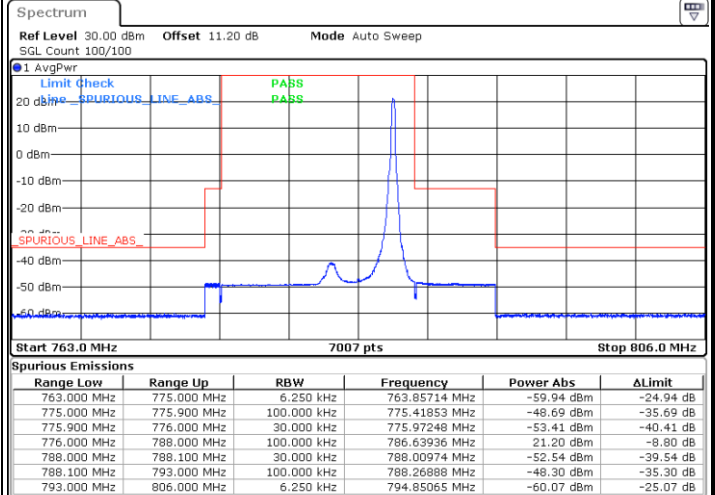
LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB



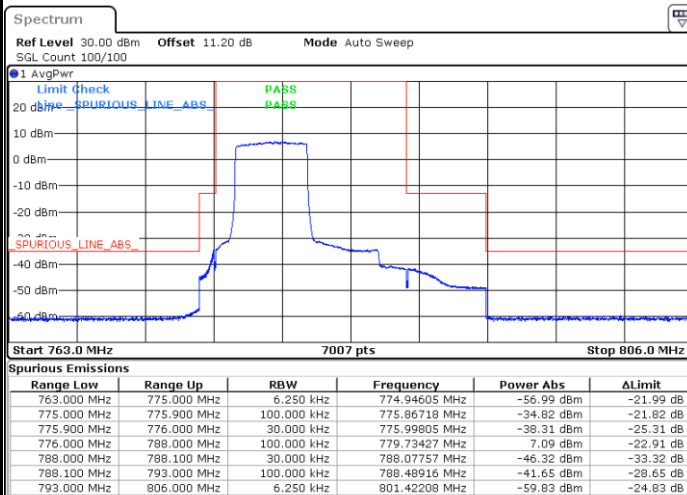
Date: 18.AUG.2020 10:23:53

Highest Band Edge / 1 RB



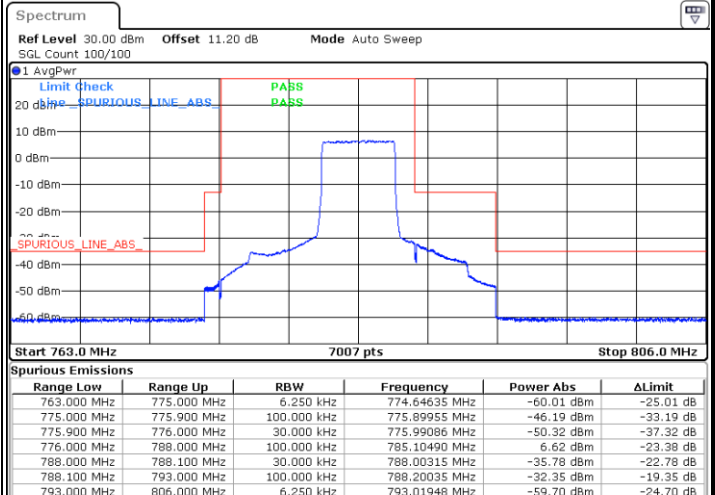
Date: 18.AUG.2020 10:35:02

Lowest Band Edge / Full RB



Date: 18.AUG.2020 10:18:53

Highest Band Edge / Full RB



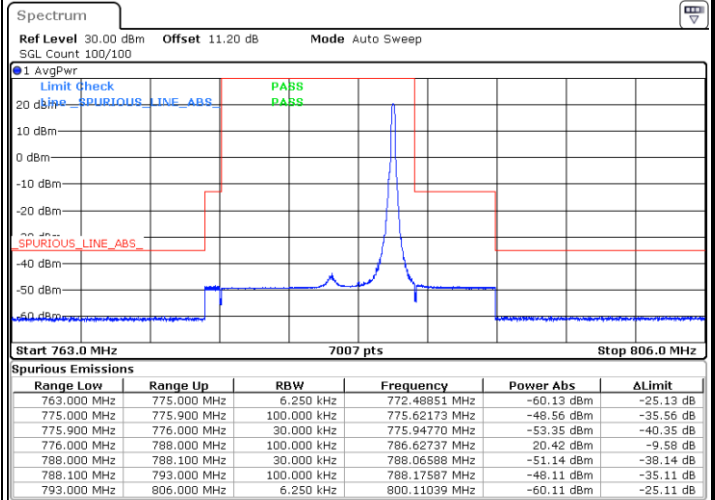
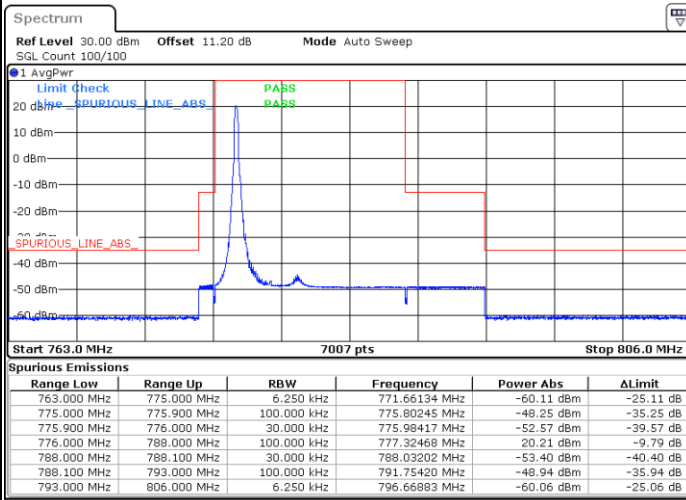
Date: 18.AUG.2020 10:30:02



LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

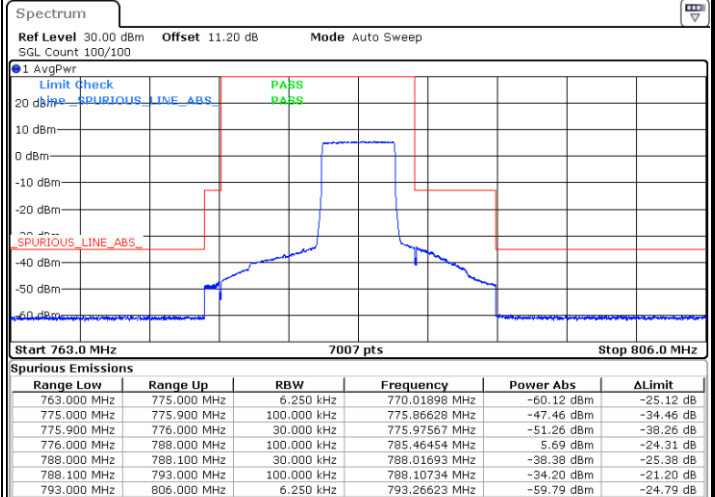
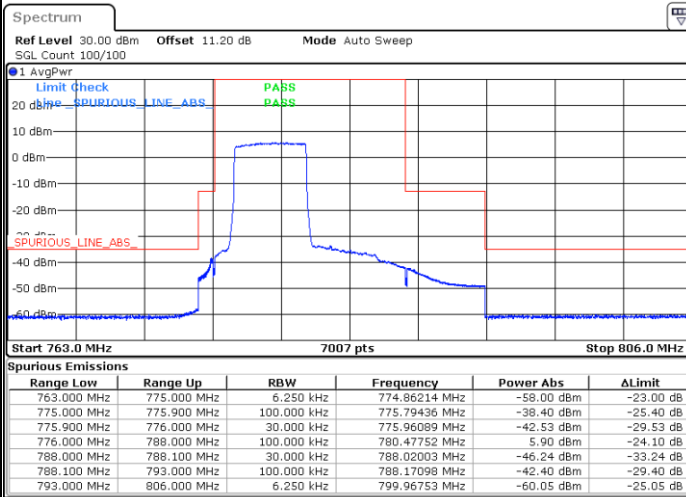


Date: 18.AUG.2020 10:22:13

Date: 18.AUG.2020 10:33:22

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 18.AUG.2020 10:20:33

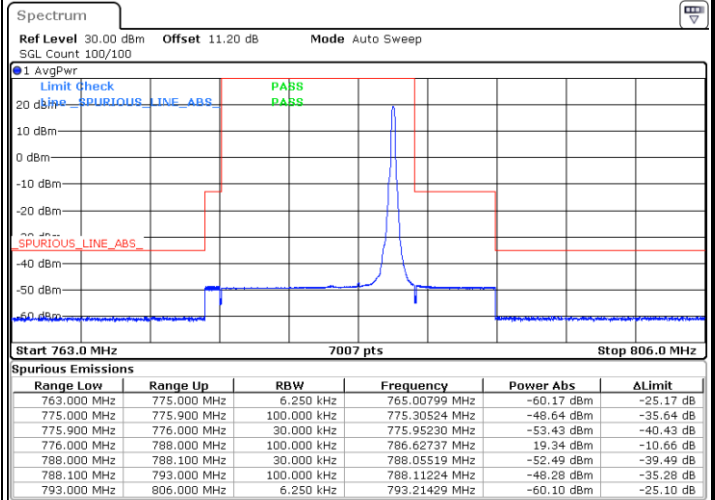
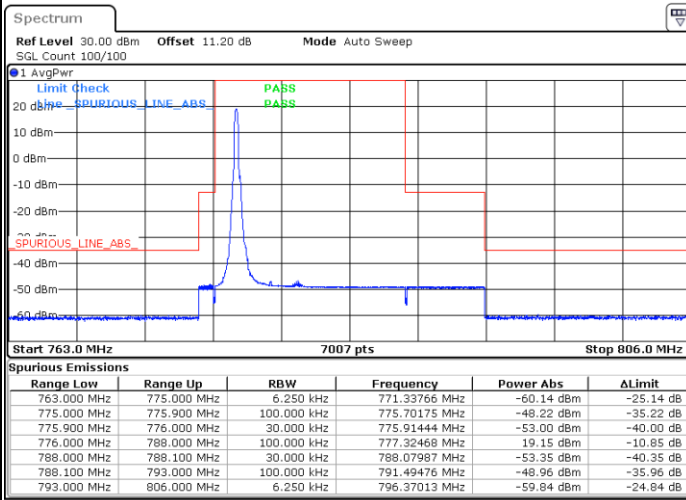
Date: 18.AUG.2020 10:31:42



LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

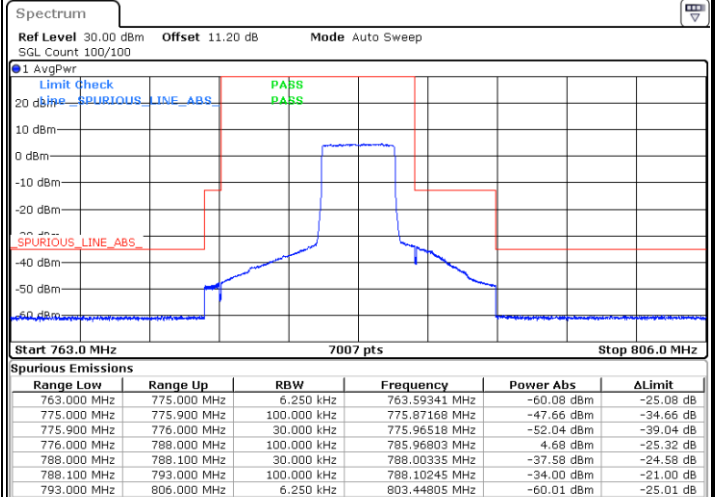
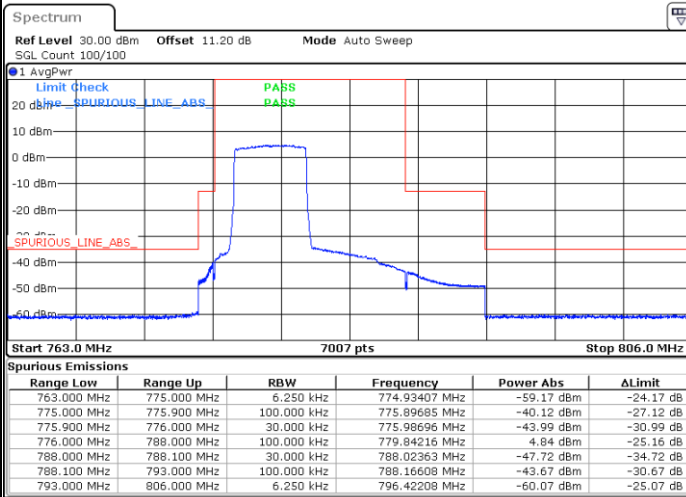


Date: 18.AUG.2020 10:40:15

Date: 18.AUG.2020 10:45:49

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



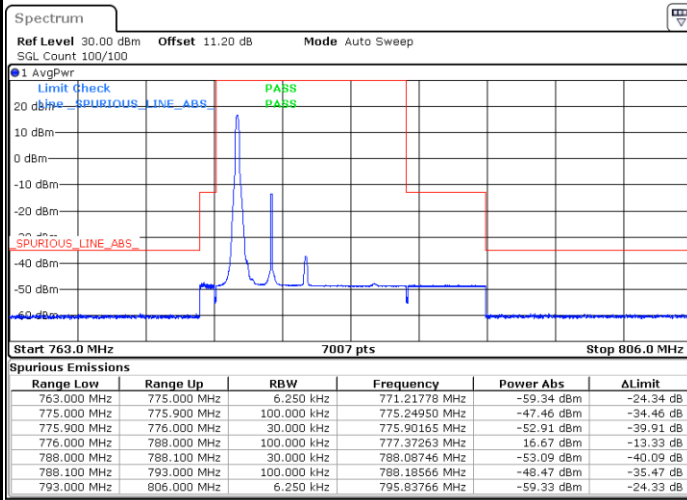
Date: 18.AUG.2020 10:38:35

Date: 18.AUG.2020 10:44:09



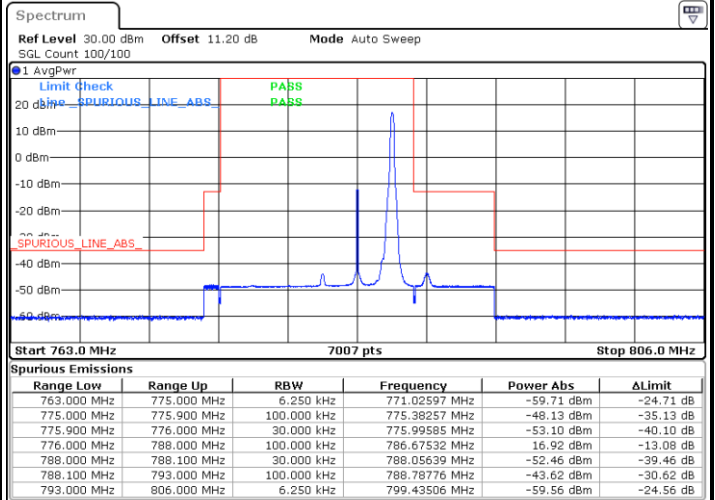
LTE Band 13 / 5MHz / 256QAM

Lowest Band Edge / 1 RB



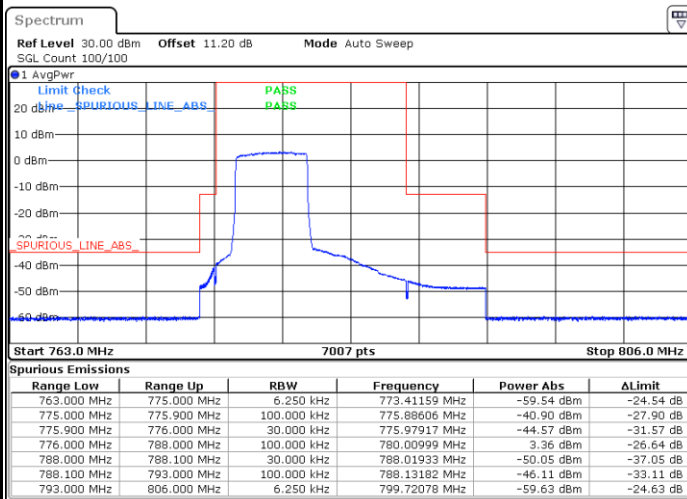
Date: 19.AUG.2020 11:05:17

Highest Band Edge / 1 RB



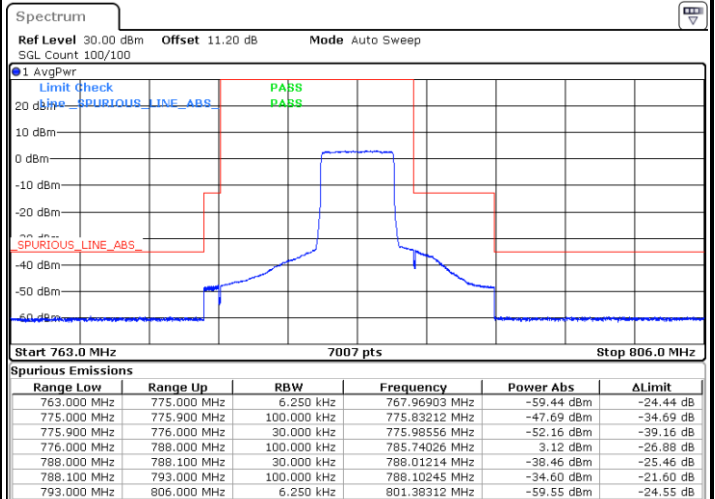
Date: 19.AUG.2020 11:06:53

Lowest Band Edge / Full RB



Date: 19.AUG.2020 11:03:50

Highest Band Edge / Full RB



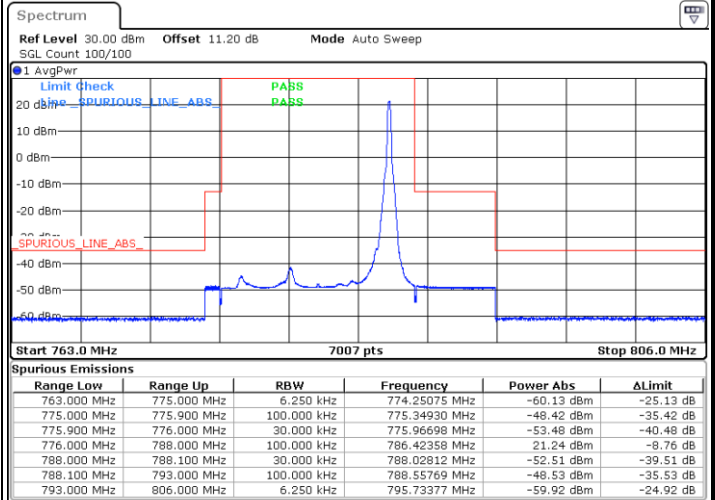
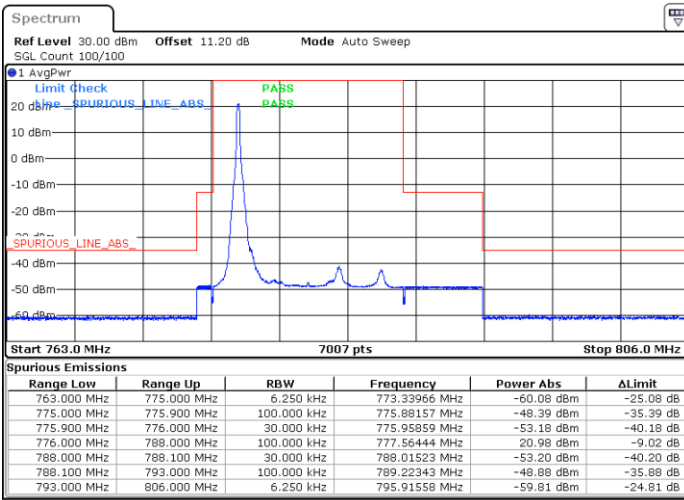
Date: 19.AUG.2020 11:07:17



LTE Band 13 / 10MHz / QPSK

Lowest Band Edge / 1 RB

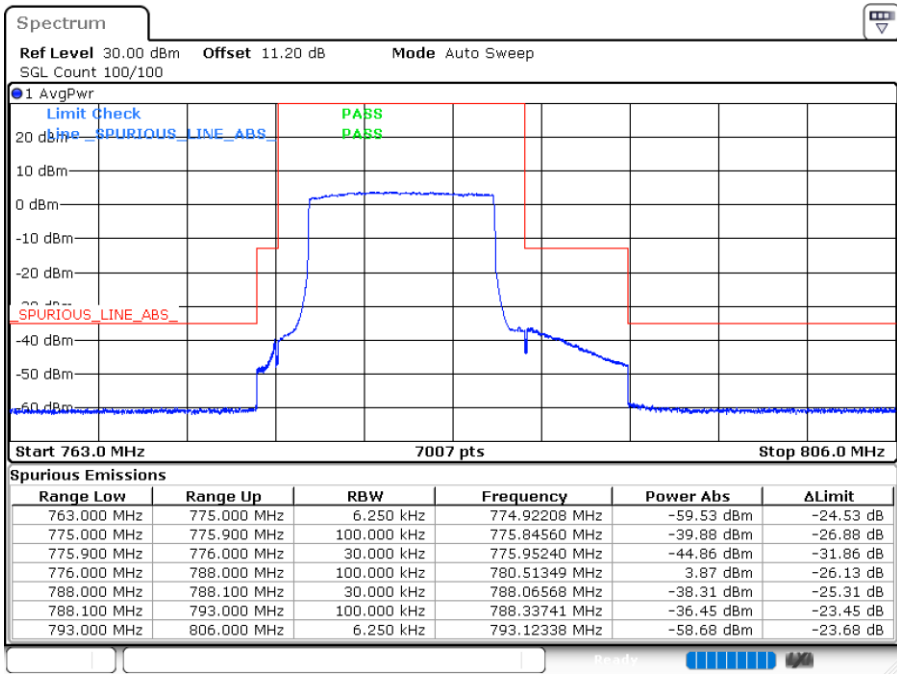
Highest Band Edge / 1 RB



Date: 18.AUG.2020 10:53:57

Date: 18.AUG.2020 10:55:36

Band Edge / Full RB

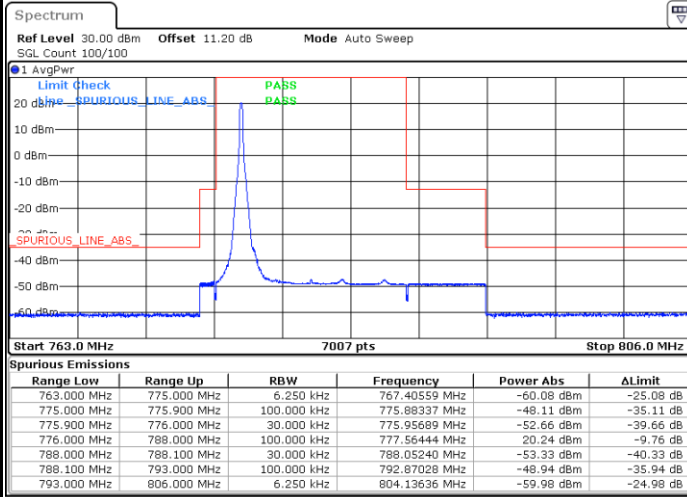


Date: 18.AUG.2020 10:48:59



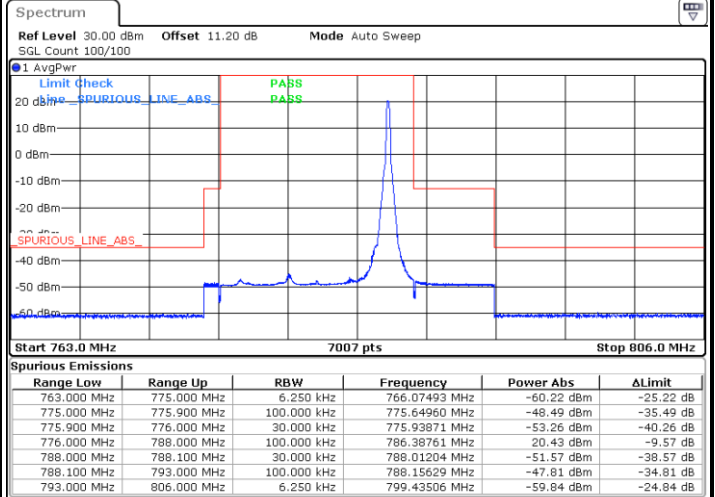
LTE Band 13 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



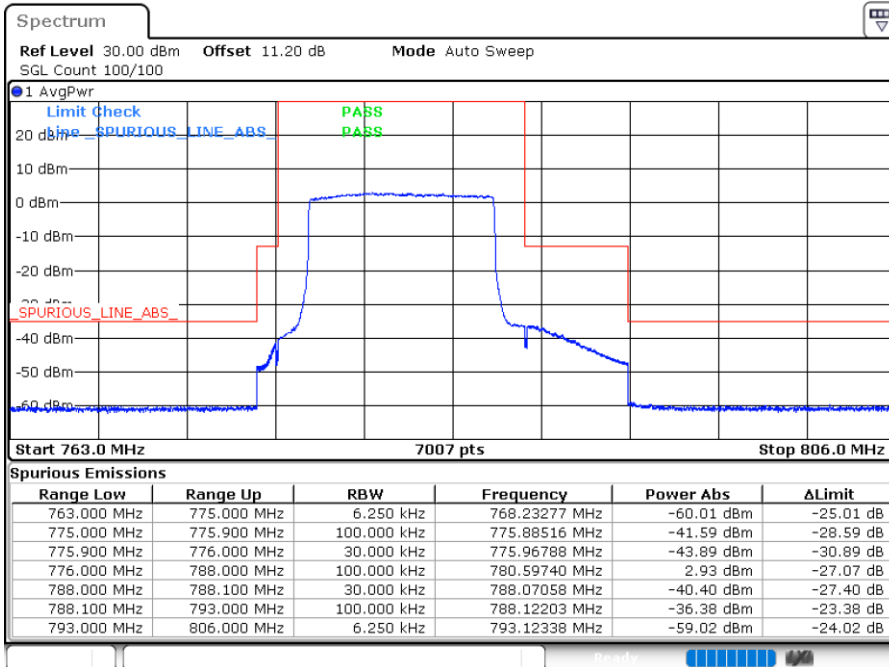
Date: 18.AUG.2020 10:52:18

Highest Band Edge / 1 RB



Date: 18.AUG.2020 10:57:16

Band Edge / Full RB

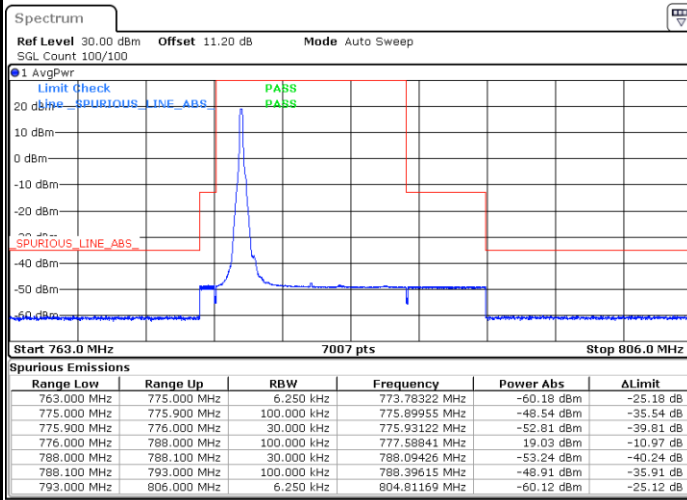


Date: 18.AUG.2020 10:50:38



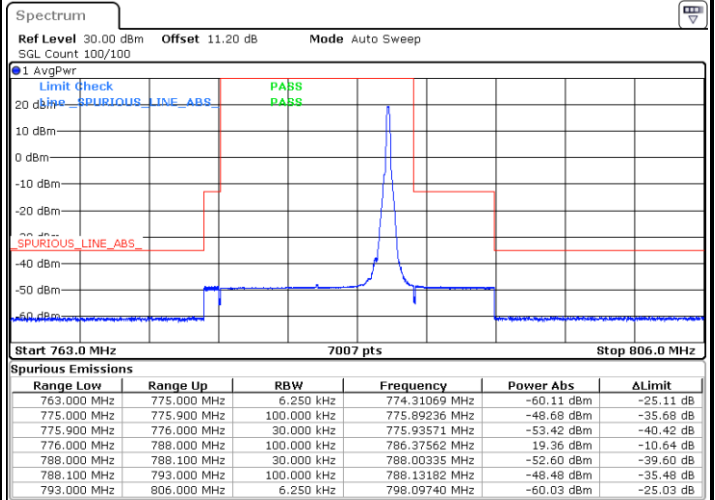
LTE Band 13 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



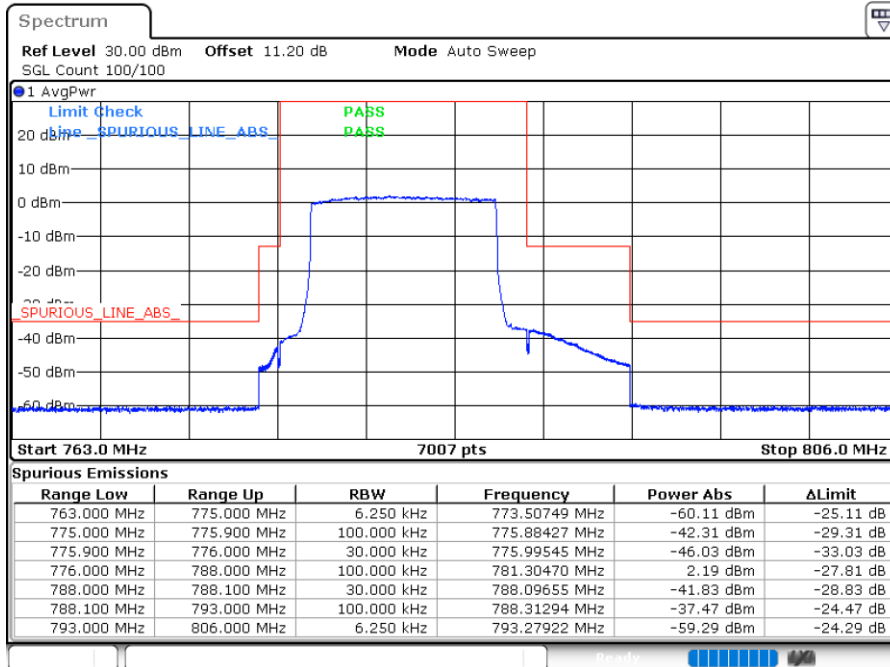
Date: 18.AUG.2020 11:02:26

Highest Band Edge / 1 RB



Date: 18.AUG.2020 11:04:05

Band Edge / Full RB

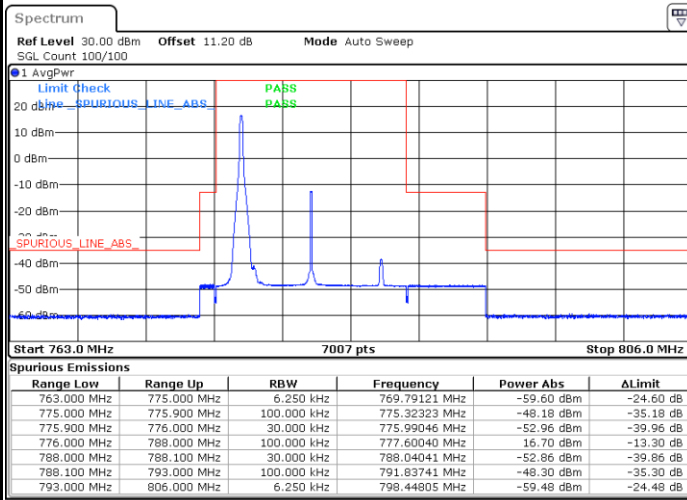


Date: 18.AUG.2020 11:00:46



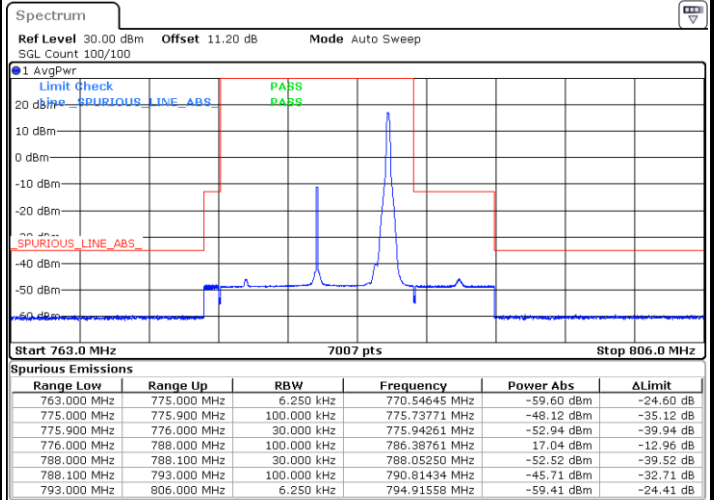
LTE Band 13 / 10MHz / 256QAM

Lowest Band Edge / 1 RB



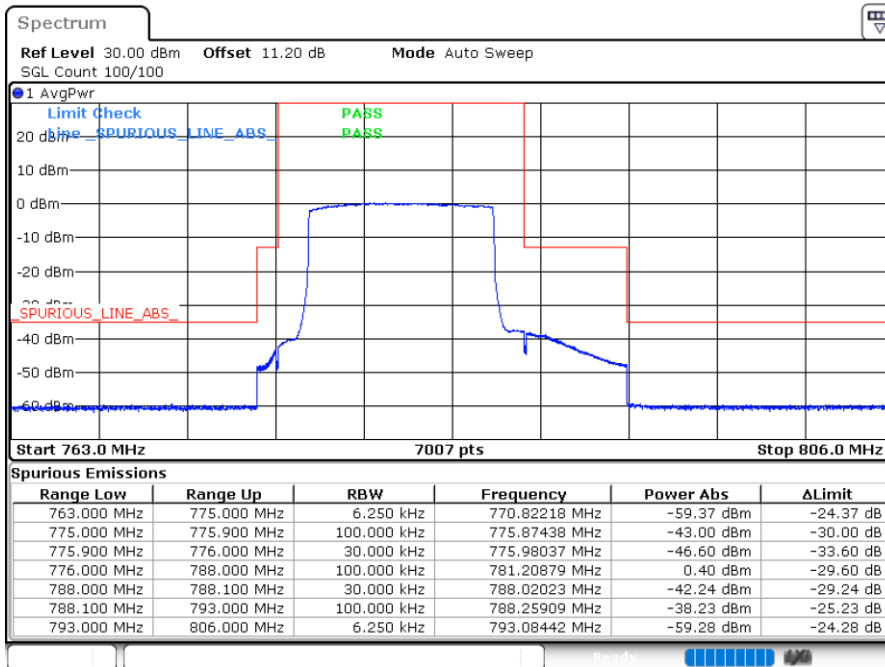
Date: 19.AUG.2020 11:13:15

Highest Band Edge / 1 RB



Date: 19.AUG.2020 11:14:30

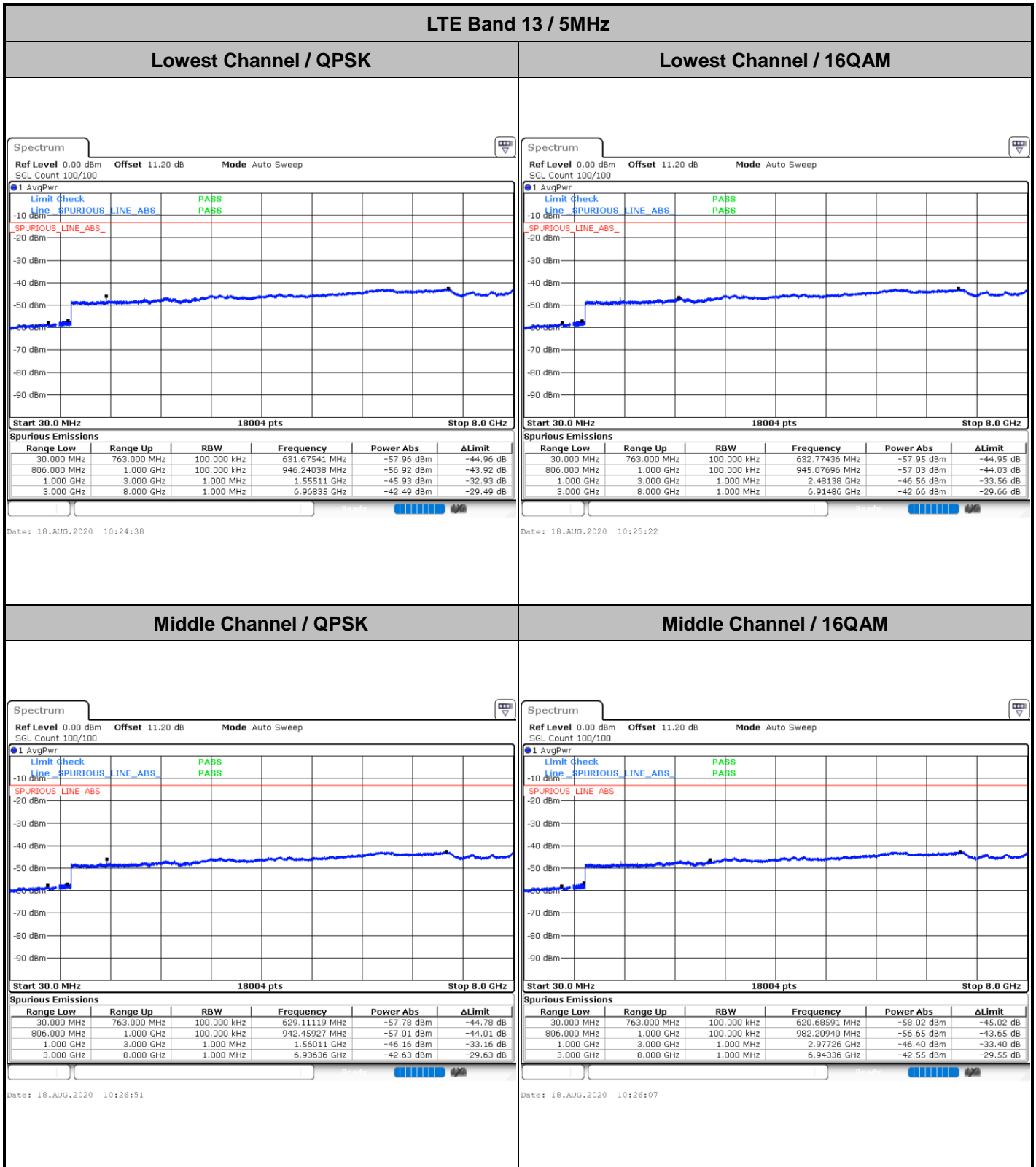
Band Edge / Full RB



Date: 19.AUG.2020 11:11:09



Conducted Spurious Emission

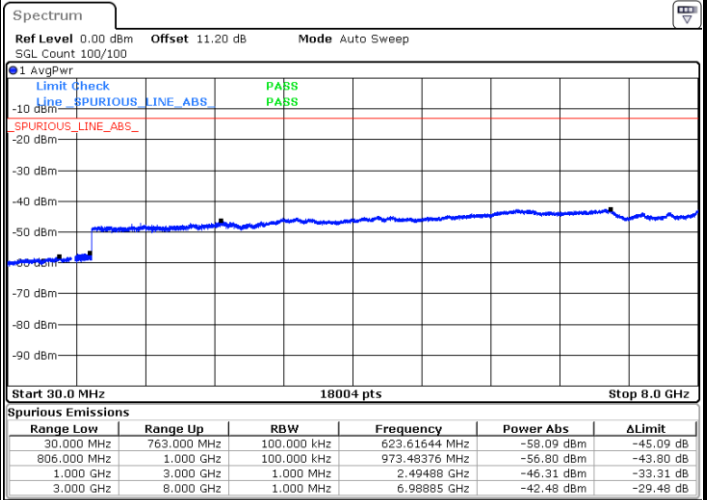
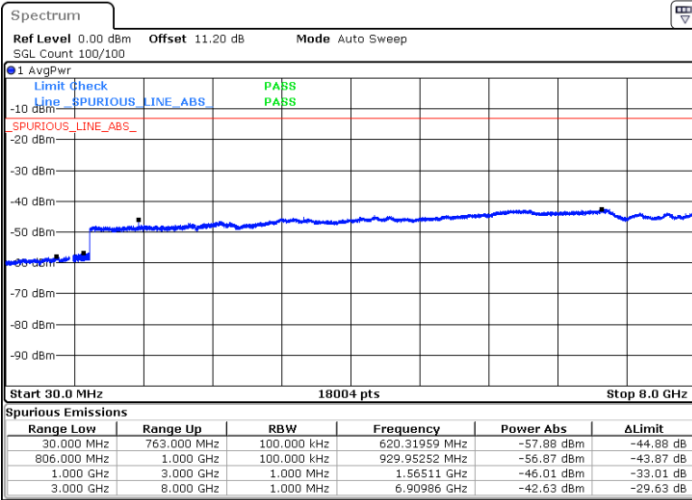




LTE Band 13 / 5MHz

Highest Channel / QPSK

Highest Channel / 16QAM



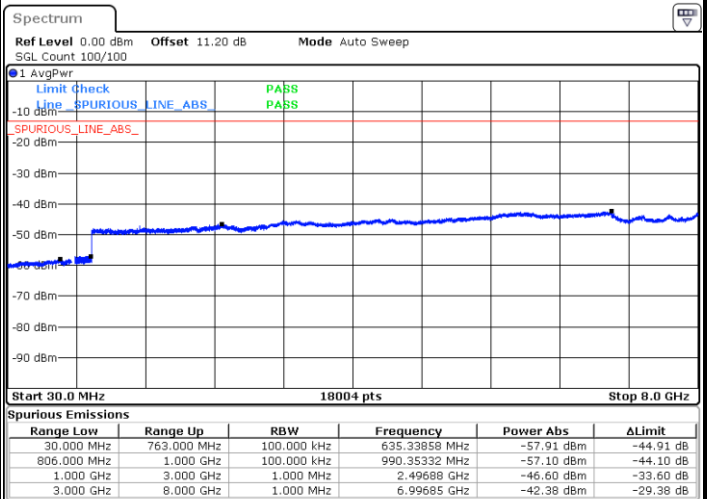
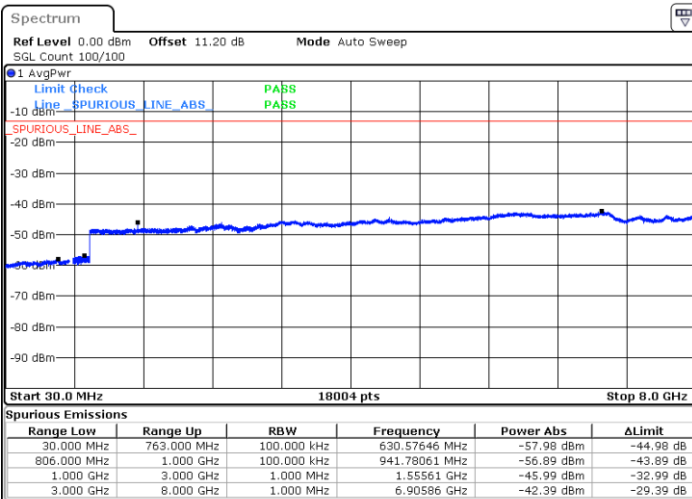
Date: 18.AUG.2020 10:35:47

Date: 18.AUG.2020 10:36:32

LTE Band 13 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 18.AUG.2020 10:58:45

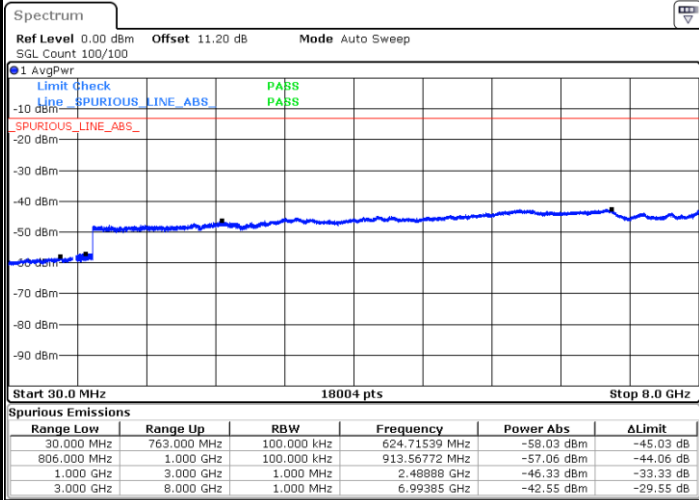
Date: 18.AUG.2020 10:58:00



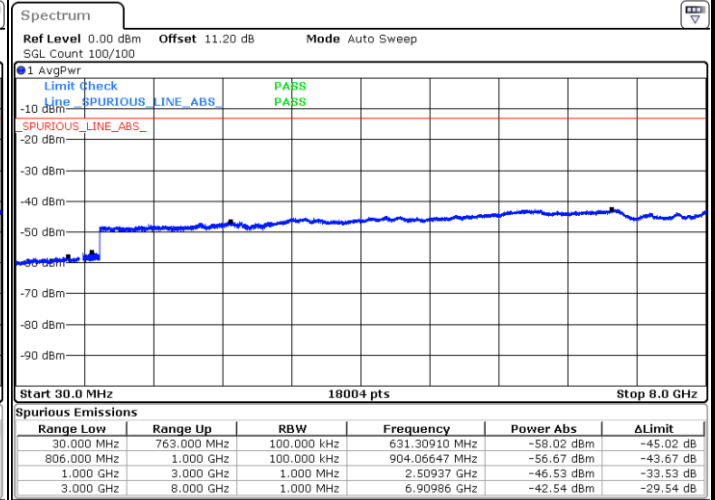
LTE Band 13 / 5MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

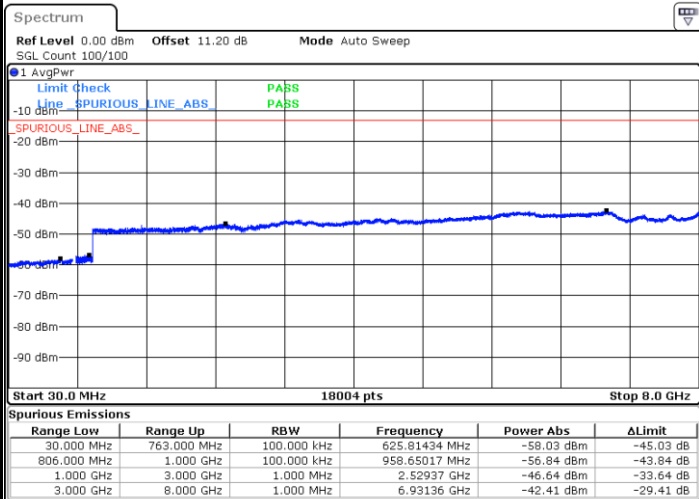


Date: 18.AUG.2020 10:41:00



Date: 18.AUG.2020 10:41:44

Highest Channel / 64QAM



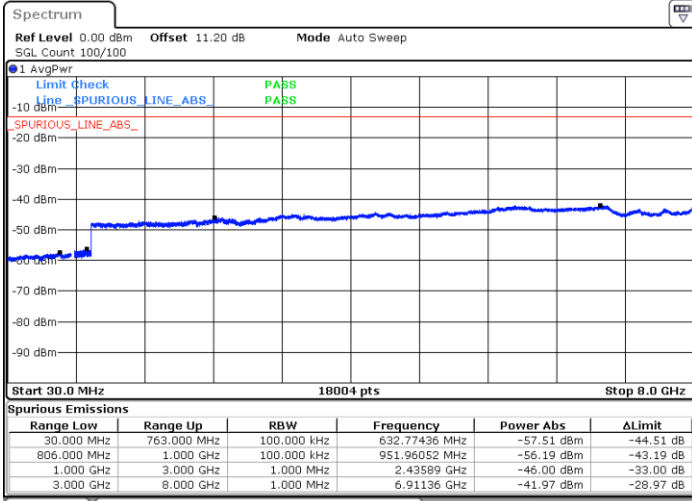
Date: 18.AUG.2020 10:46:34



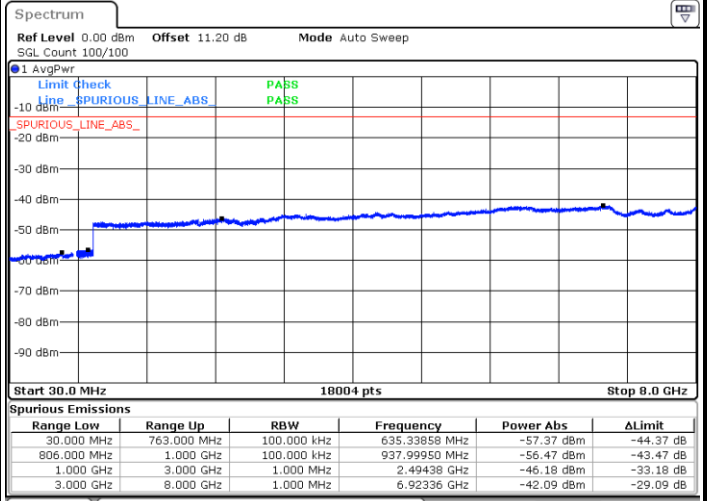
LTE Band 13 / 5MHz

Lowest Channel / 256QAM

Middle Channel / 256QAM

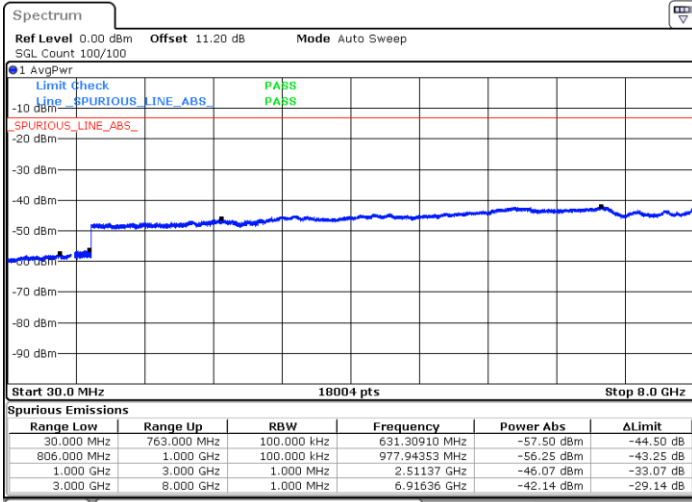


Date: 19.AUG.2020 11:04:18



Date: 19.AUG.2020 11:02:05

Highest Channel / 256QAM



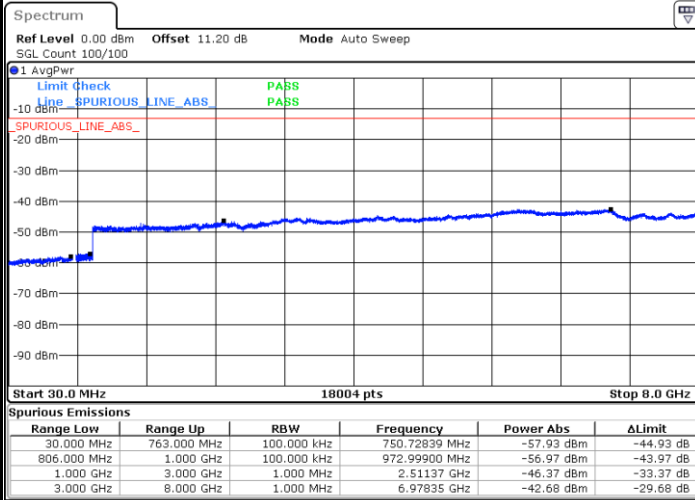
Date: 19.AUG.2020 11:07:48



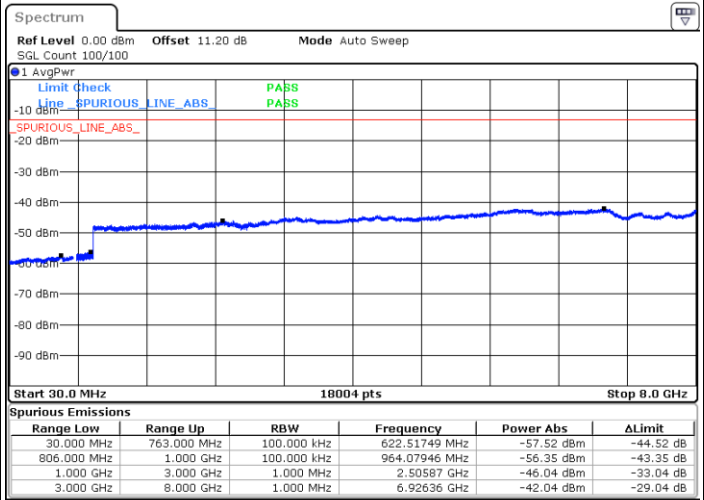
LTE Band 13 / 10MHz

Middle Channel / 64QAM

Middle Channel / 256QAM



Date: 18.AUG.2020 11:04:50



Date: 19.AUG.2020 11:11:51



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	0.0029	PASS
40	Normal Voltage	0.0173	
30	Normal Voltage	0.0174	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0114	
0	Normal Voltage	0.0090	
-10	Normal Voltage	0.0132	
-20	Normal Voltage	0.0005	
-30	Normal Voltage	0.0054	
20	Maximum Voltage	0.0168	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0058	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.3 V. ; Maximum Voltage =4.25 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 17

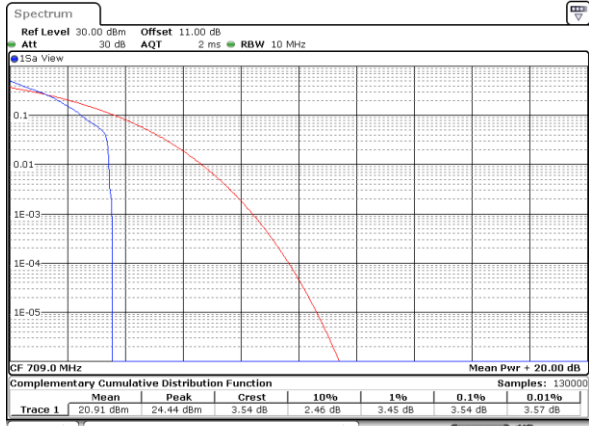
Peak-to-Average Ratio

Mode	LTE Band 17 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.54	4.90	4.93	5.80	PASS
Middle CH	3.65	4.87	5.28	5.86	
Highest CH	3.54	4.87	5.42	5.77	
Mode	LTE Band 17 / 10MHz				
Mod.	64QAM		256QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	6.38	6.26	7.33	6.29	PASS
Middle CH	6.23	6.26	7.48	6.26	
Highest CH	6.49	6.32	6.17	6.43	



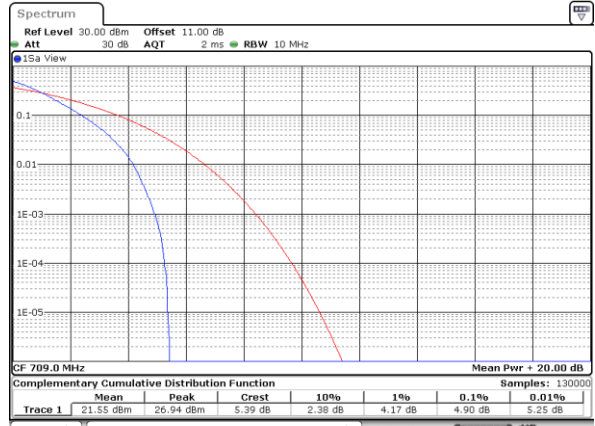
LTE Band 17 / 10MHz / QPSK

Lowest Channel / 1RB



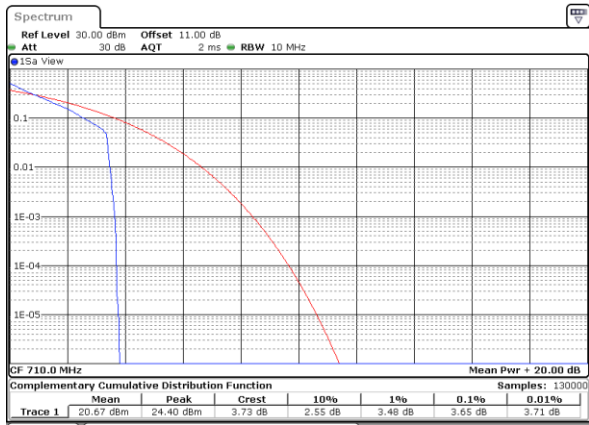
Date: 18_AUG.2020 13:49:45

Lowest Channel / Full RB



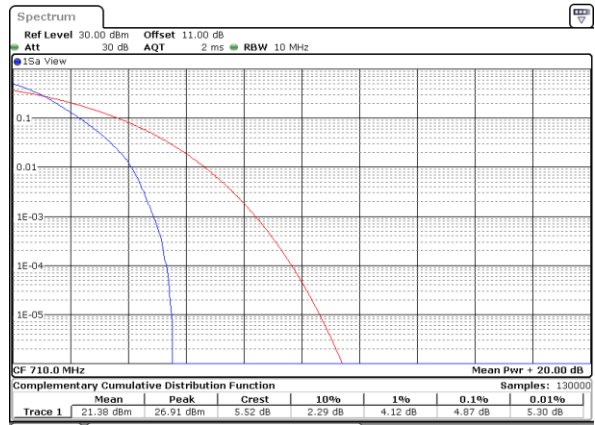
Date: 18_AUG.2020 13:49:56

Middle Channel / 1RB



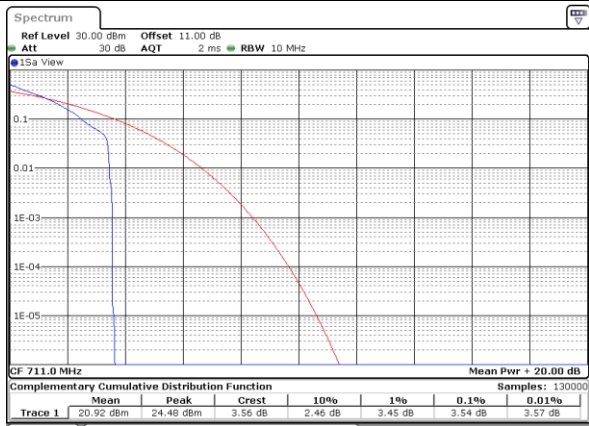
Date: 18_AUG.2020 13:50:07

Middle Channel / Full RB



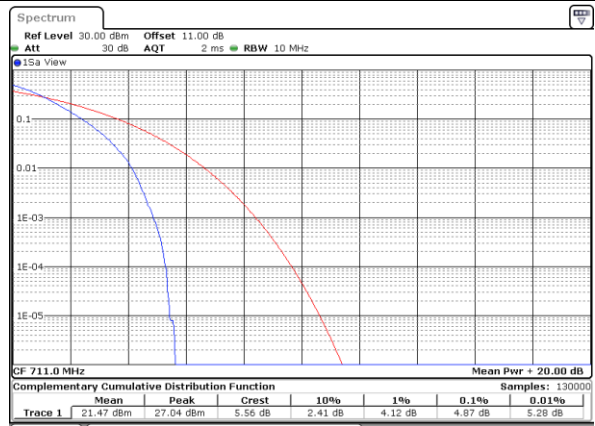
Date: 18_AUG.2020 13:50:17

Highest Channel / 1RB



Date: 18_AUG.2020 13:50:27

Highest Channel / Full RB

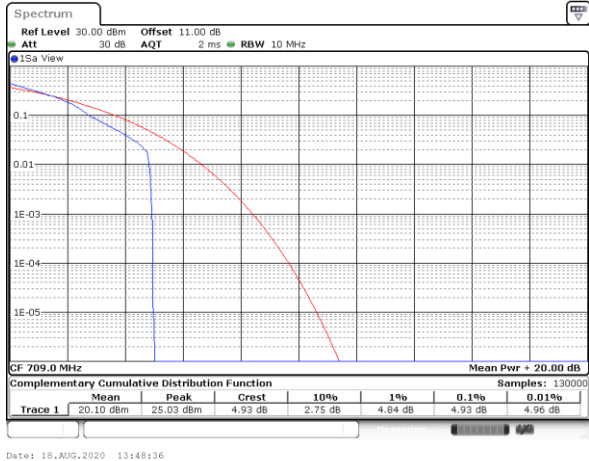


Date: 18_AUG.2020 13:50:38



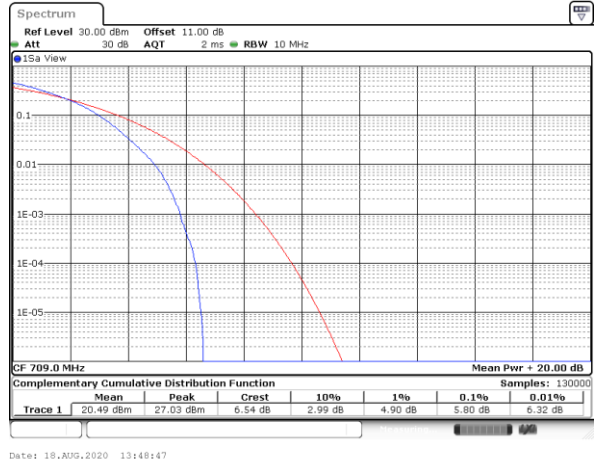
LTE Band 17 / 10MHz / 16QAM

Lowest Channel / 1RB



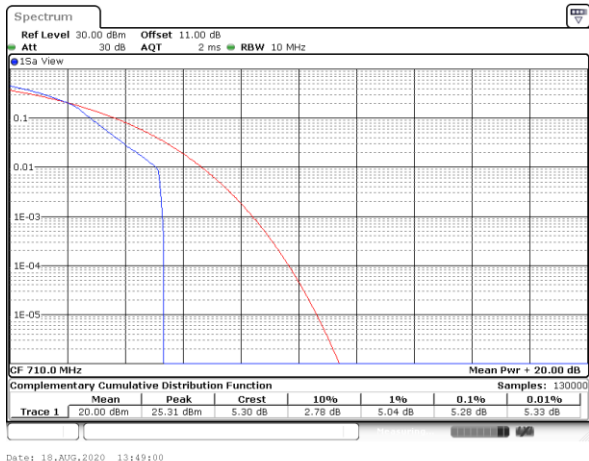
Date: 18_AUG.2020 13:48:36

Lowest Channel / Full RB



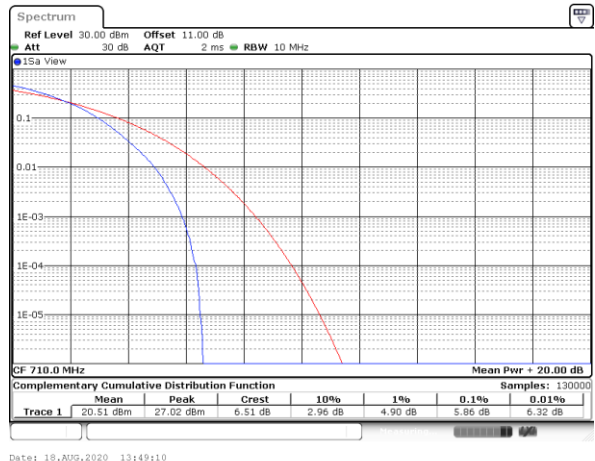
Date: 18_AUG.2020 13:48:47

Middle Channel / 1RB



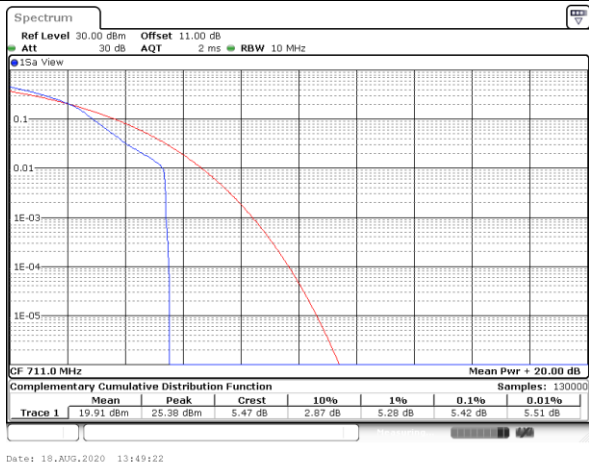
Date: 18_AUG.2020 13:49:00

Middle Channel / Full RB



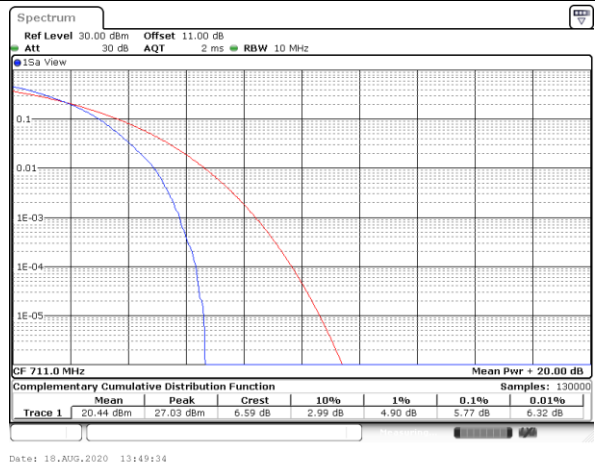
Date: 18_AUG.2020 13:49:10

Highest Channel / 1RB



Date: 18_AUG.2020 13:49:22

Highest Channel / Full RB

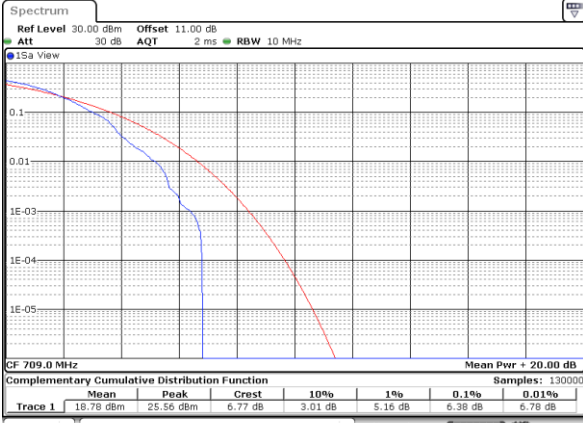


Date: 18_AUG.2020 13:49:34



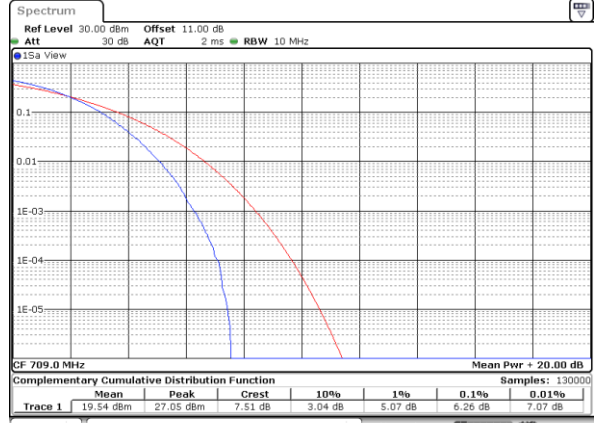
LTE Band 17 / 10MHz / 64QAM

Lowest Channel / 1RB



Date: 18_AUG.2020 13:50:48

Lowest Channel / Full RB



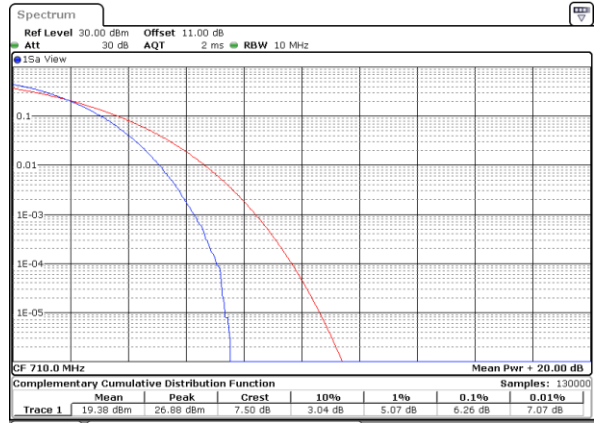
Date: 18_AUG.2020 13:50:59

Middle Channel / 1RB



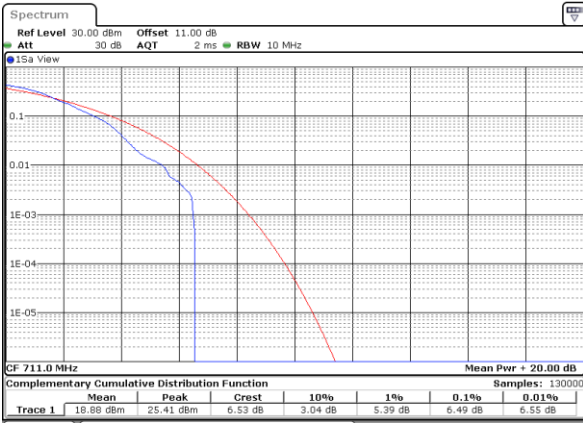
Date: 18_AUG.2020 13:51:10

Middle Channel / Full RB



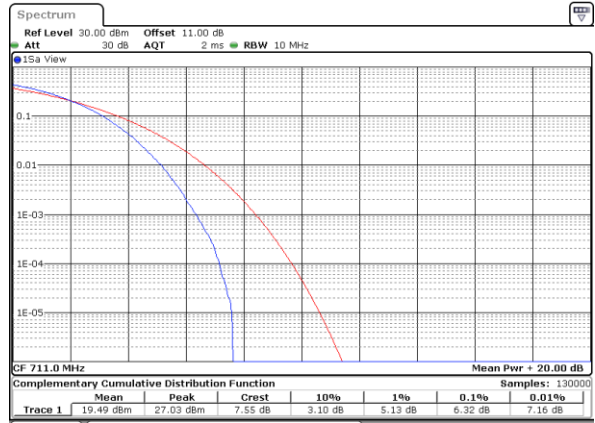
Date: 18_AUG.2020 13:51:20

Highest Channel / 1RB



Date: 18_AUG.2020 13:51:30

Highest Channel / Full RB

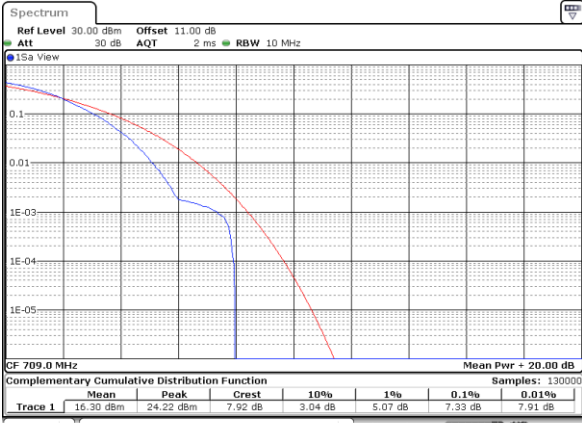


Date: 18_AUG.2020 13:51:41



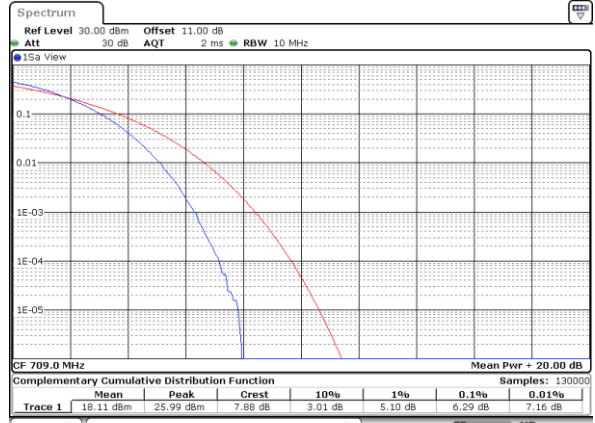
LTE Band 17 / 10MHz / 256QAM

Lowest Channel / 1RB



Date: 19_AUG.2020 13:43:48

Lowest Channel / Full RB



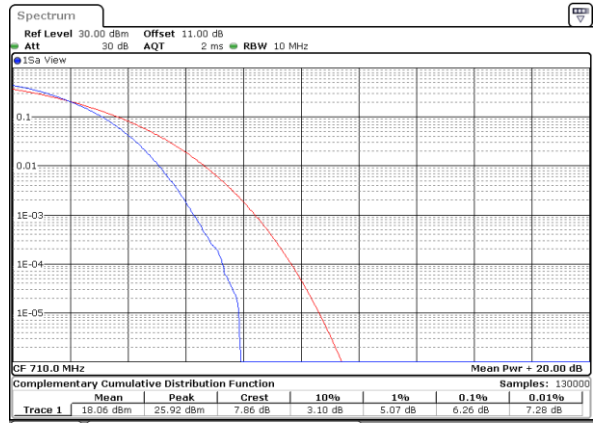
Date: 19_AUG.2020 13:44:04

Middle Channel / 1RB



Date: 19_AUG.2020 13:25:00

Middle Channel / Full RB



Date: 19_AUG.2020 13:24:09

Highest Channel / 1RB



Date: 19_AUG.2020 13:41:27

Highest Channel / Full RB



Date: 19_AUG.2020 13:40:28



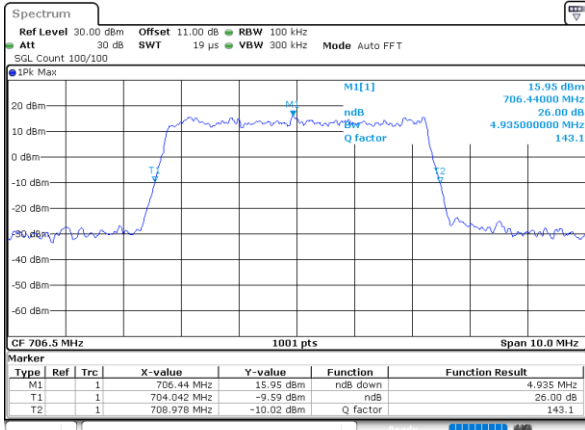
26dB Bandwidth

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	-	-	-	-	4.94	4.93	9.85	9.73	-	-	-	-
Middle CH	-	-	-	-	4.86	4.89	9.89	9.73	-	-	-	-
Highest CH	-	-	-	-	4.89	4.88	9.63	9.79	-	-	-	-
Mode	LTE Band 17 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Lowest CH	-	-	-	-	4.91	4.90	9.89	9.91	-	-	-	-
Middle CH	-	-	-	-	4.83	4.89	9.71	9.89	-	-	-	-
Highest CH	-	-	-	-	4.95	4.89	9.71	9.79	-	-	-	-



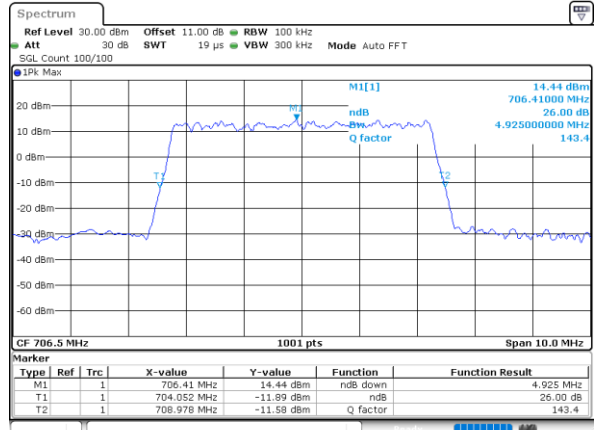
LTE Band 17

Lowest Channel / 5MHz / QPSK



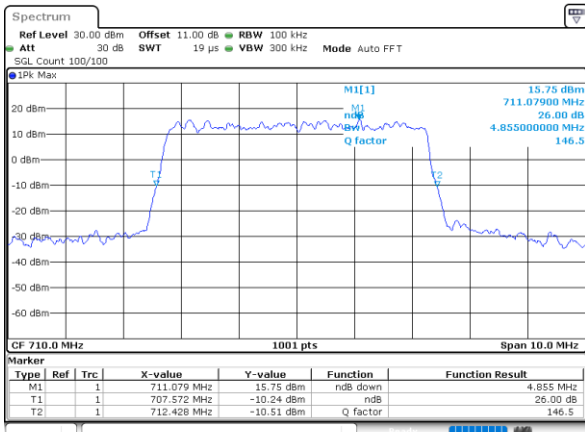
Date: 18_AUG.2020 13:13:04

Lowest Channel / 5MHz / 16QAM



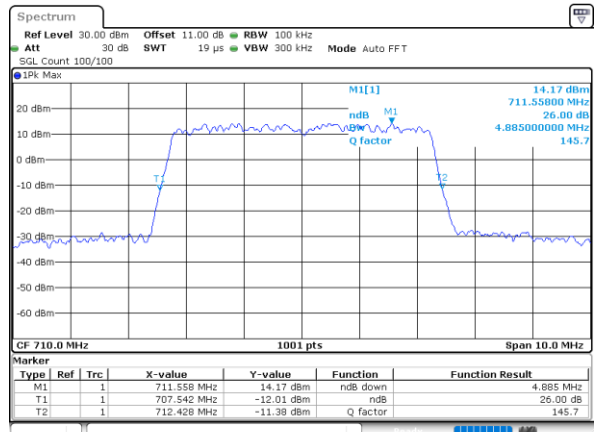
Date: 18_AUG.2020 13:13:16

Middle Channel / 5MHz / QPSK



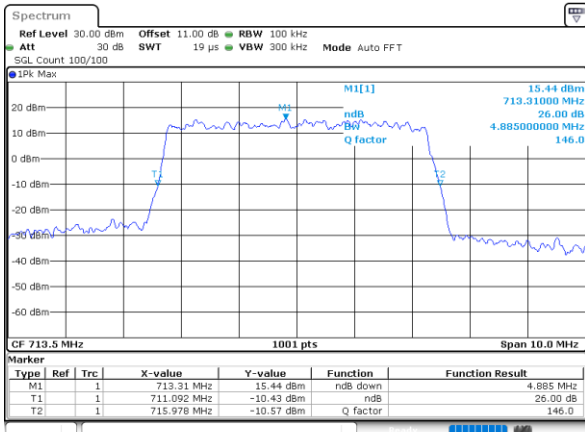
Date: 18_AUG.2020 13:18:04

Middle Channel / 5MHz / 16QAM



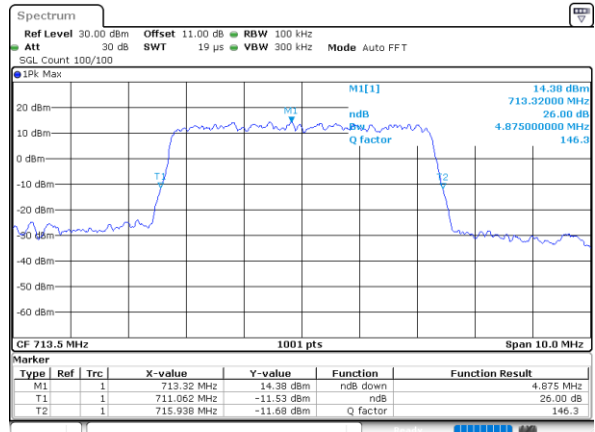
Date: 18_AUG.2020 13:18:16

Highest Channel / 5MHz / QPSK



Date: 18_AUG.2020 13:20:10

Highest Channel / 5MHz / 16QAM

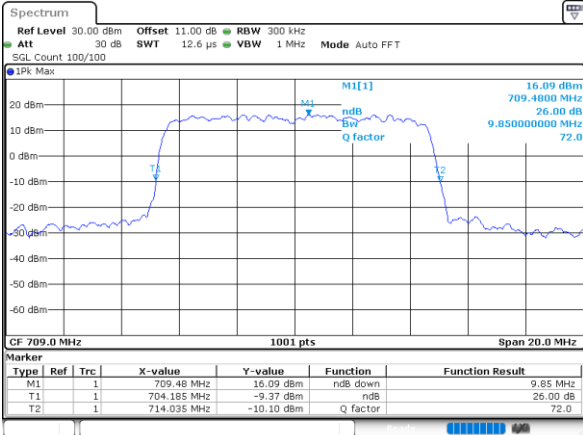


Date: 18_AUG.2020 13:20:22



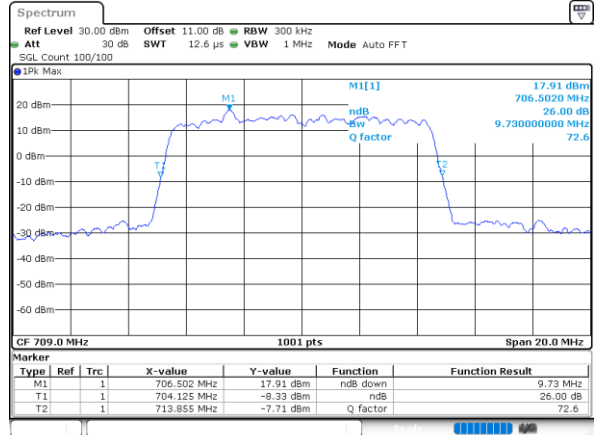
LTE Band 17

Lowest Channel / 10MHz / QPSK



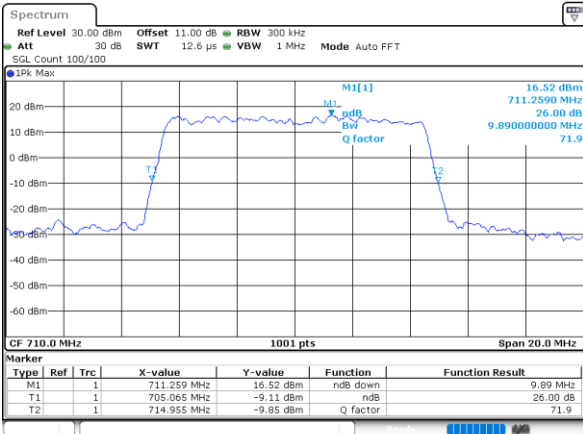
Date: 18_AUG.2020 13:24:58

Lowest Channel / 10MHz / 16QAM



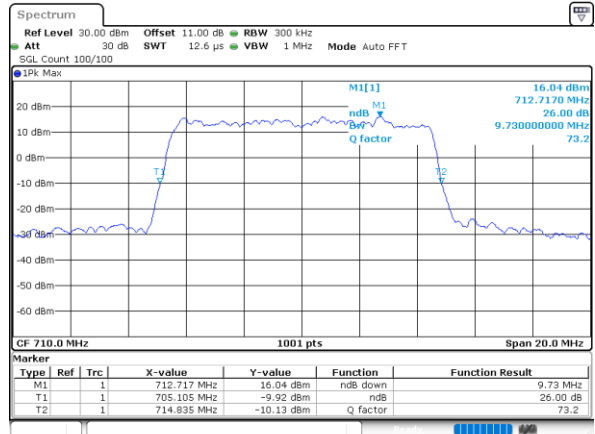
Date: 18_AUG.2020 13:25:10

Middle Channel / 10MHz / QPSK



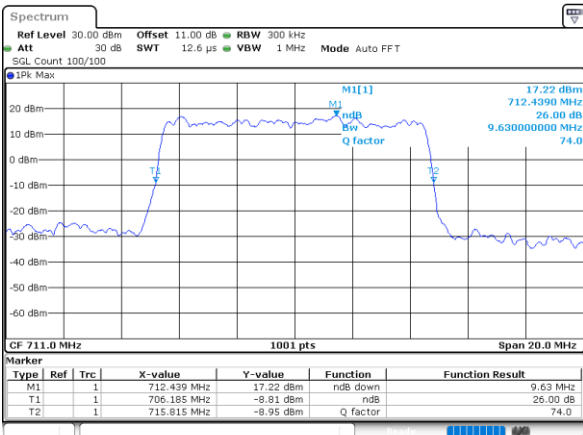
Date: 18_AUG.2020 13:29:59

Middle Channel / 10MHz / 16QAM



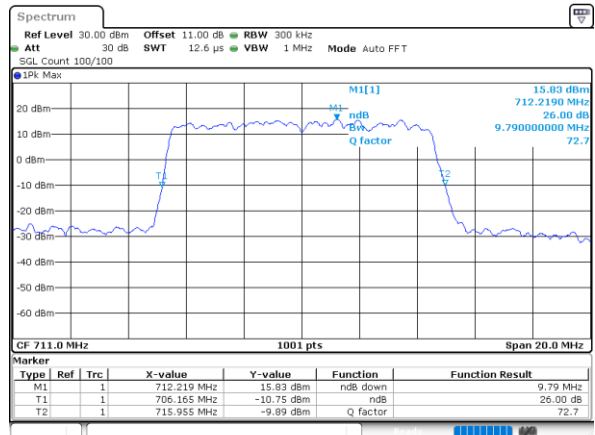
Date: 18_AUG.2020 13:30:10

Highest Channel / 10MHz / QPSK



Date: 18_AUG.2020 13:32:04

Highest Channel / 10MHz / 16QAM

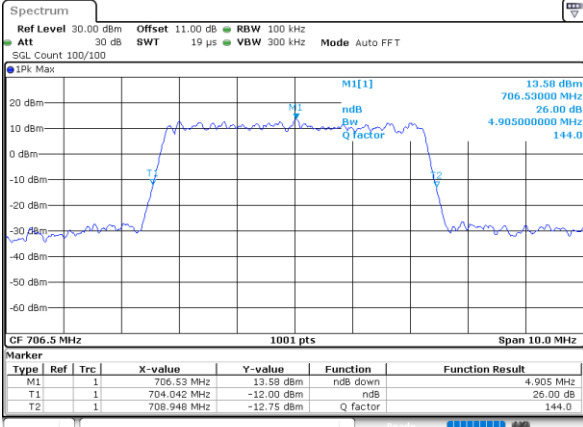


Date: 18_AUG.2020 13:32:16



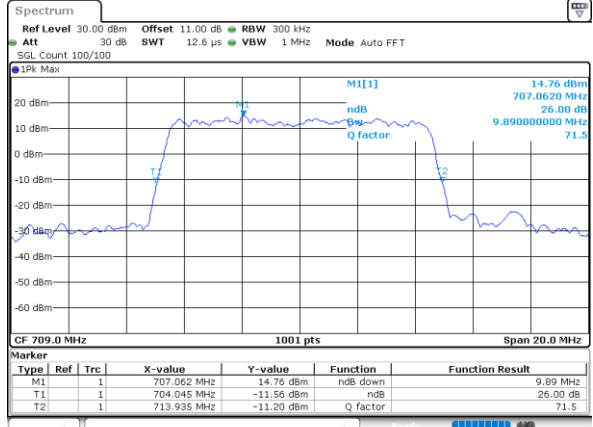
LTE Band 17

Lowest Channel / 5MHz / 64QAM



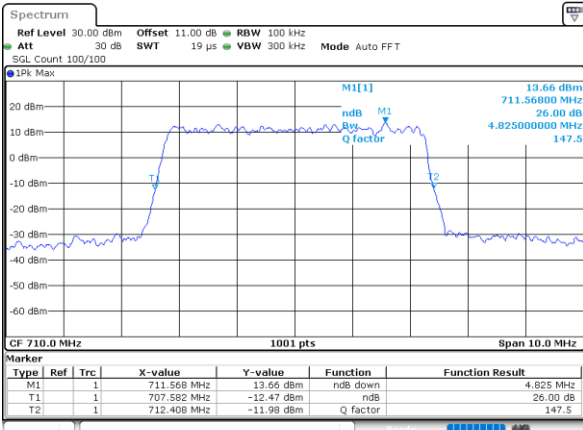
Date: 18_AUG.2020 13:36:40

Lowest Channel / 10MHz / 64QAM



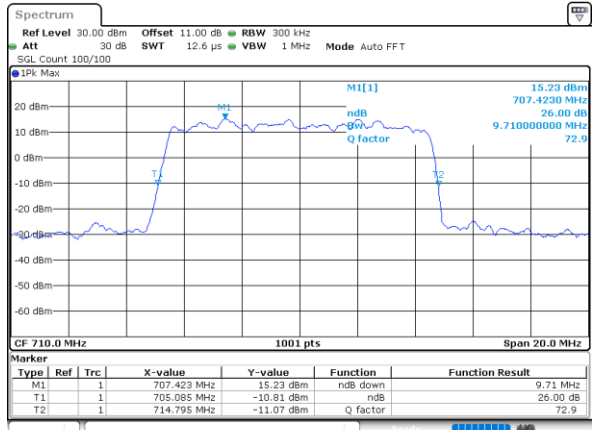
Date: 18_AUG.2020 13:42:36

Middle Channel / 5MHz / 64QAM



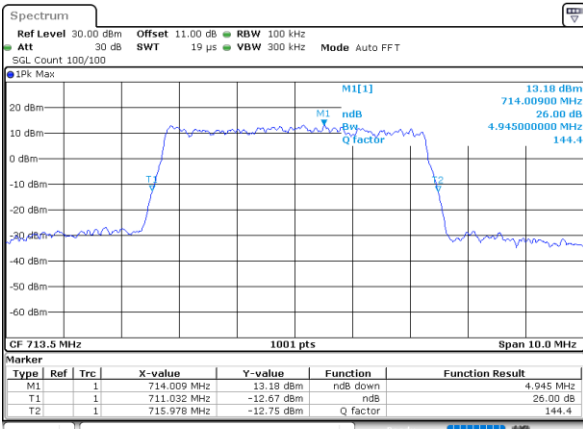
Date: 18_AUG.2020 13:39:09

Middle Channel / 10MHz / 64QAM



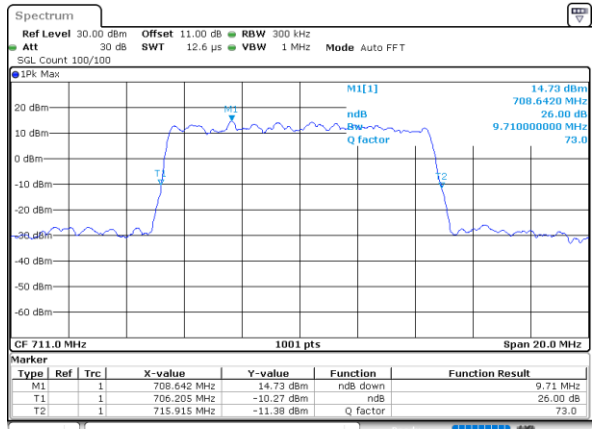
Date: 18_AUG.2020 13:45:05

Highest Channel / 5MHz / 64QAM



Date: 18_AUG.2020 13:40:12

Highest Channel / 10MHz / 64QAM



Date: 18_AUG.2020 13:46:08