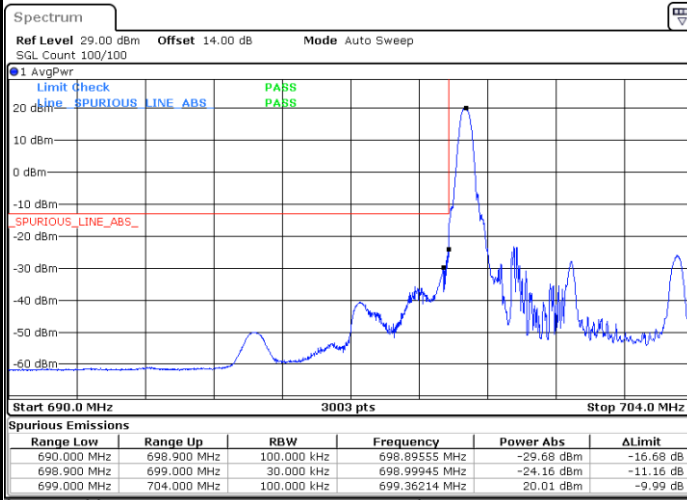




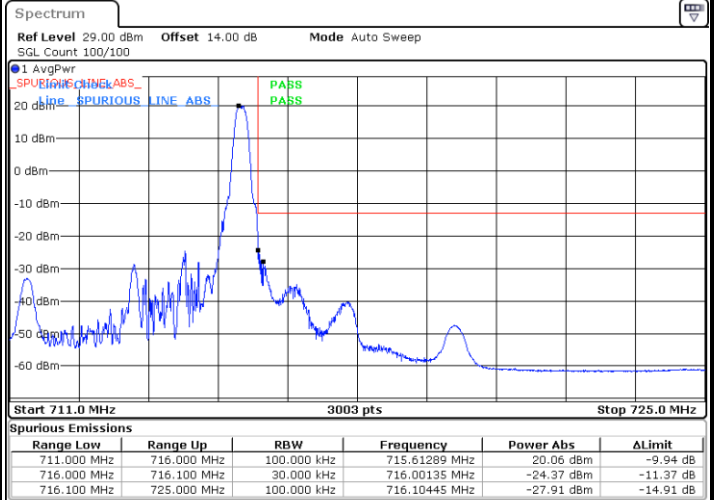
LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / 1RB



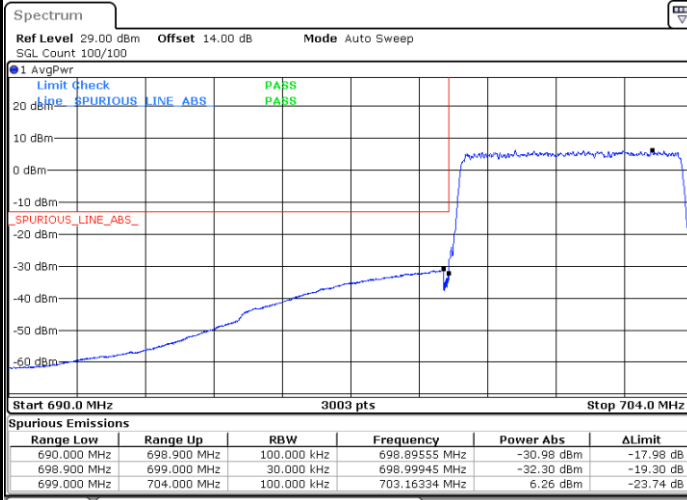
Date: 18.JUL.2022 19:05:33

Highest Band Edge / 1 RB



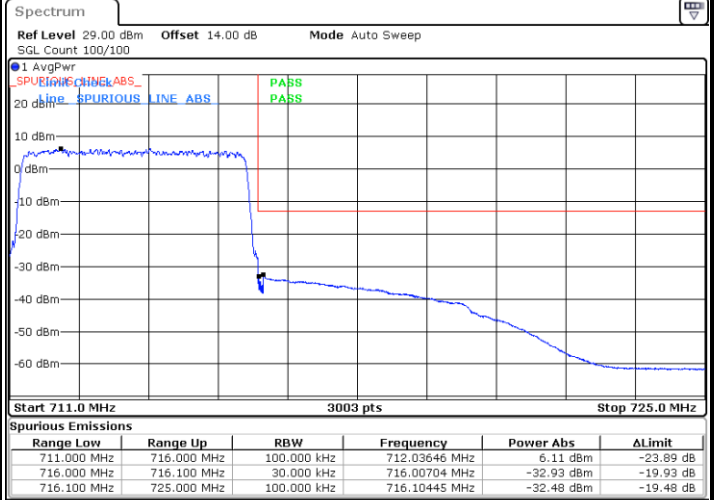
Date: 18.JUL.2022 19:19:01

Lowest Band Edge / Full RB



Date: 18.JUL.2022 19:04:00

Highest Band Edge / Full RB

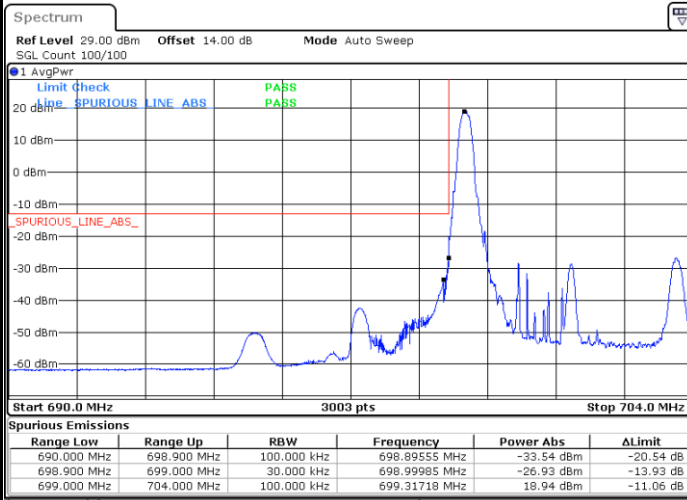


Date: 18.JUL.2022 19:15:55



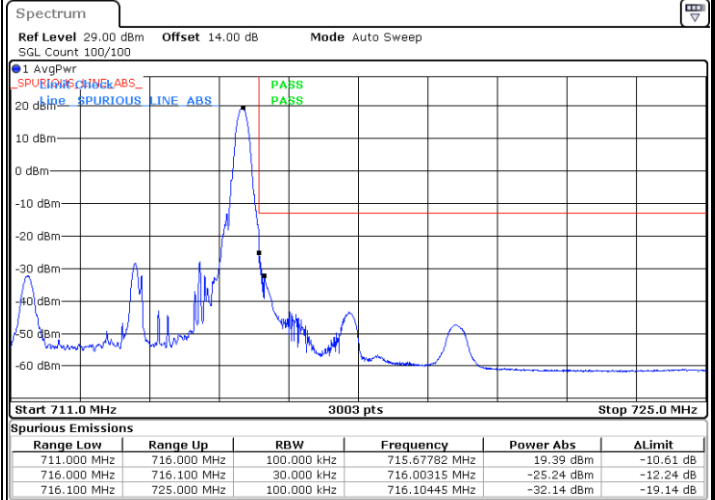
LTE Band 12 / 5MHz / 64QAM

Lowest Band Edge / 1RB



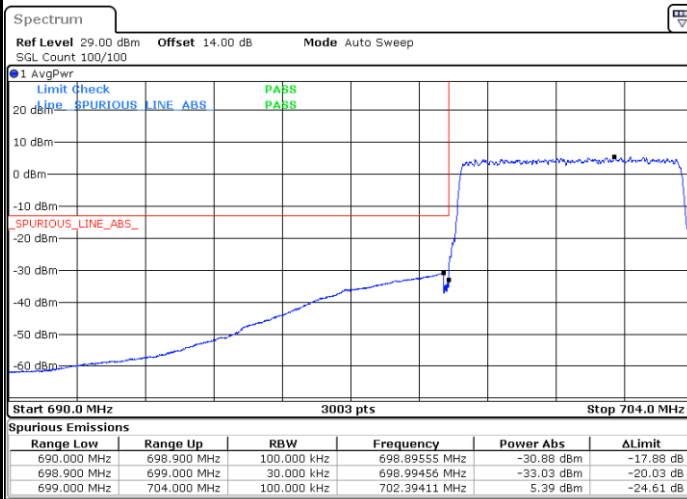
Date: 18.JUL.2022 18:53:11

Highest Band Edge / 1 RB



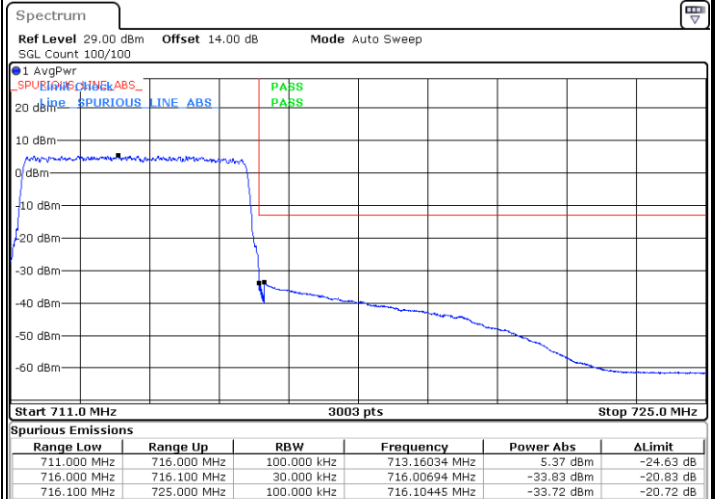
Date: 18.JUL.2022 18:58:49

Lowest Band Edge / Full RB



Date: 18.JUL.2022 18:51:38

Highest Band Edge / Full RB

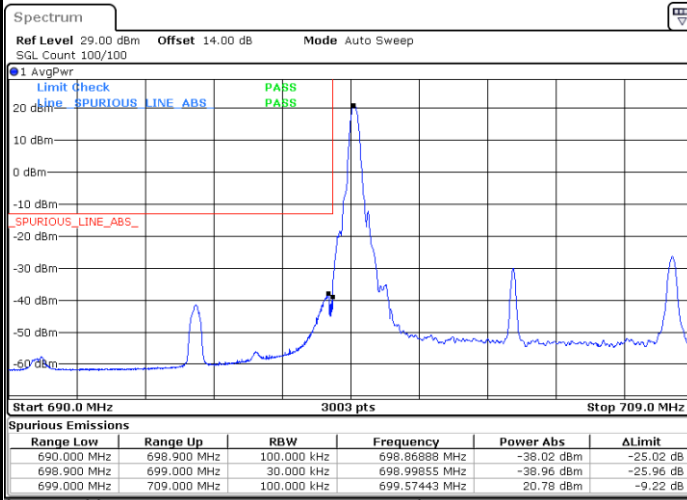


Date: 18.JUL.2022 18:57:16



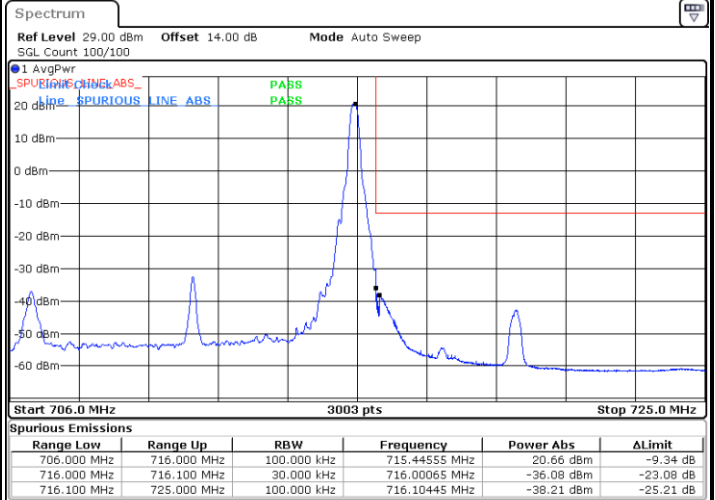
LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1 RB



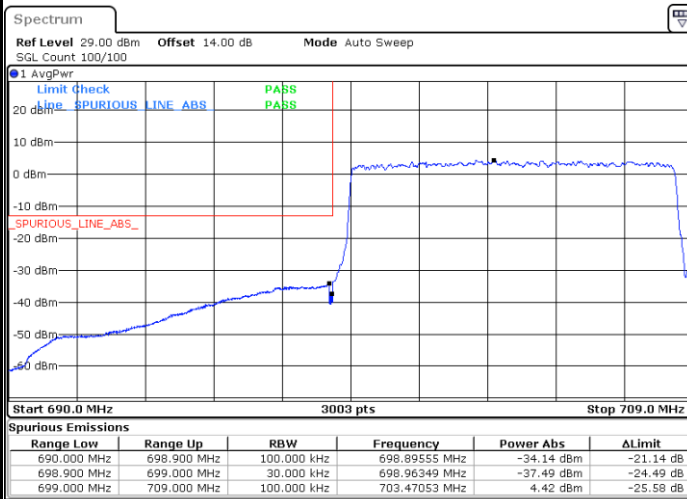
Date: 18.JUL.2022 19:28:05

Highest Band Edge / 1 RB



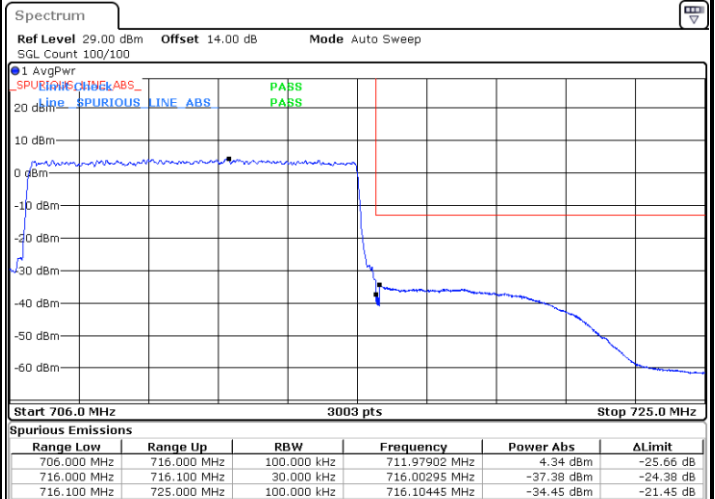
Date: 18.JUL.2022 19:41:31

Lowest Band Edge / Full RB



Date: 18.JUL.2022 19:23:27

Highest Band Edge / Full RB

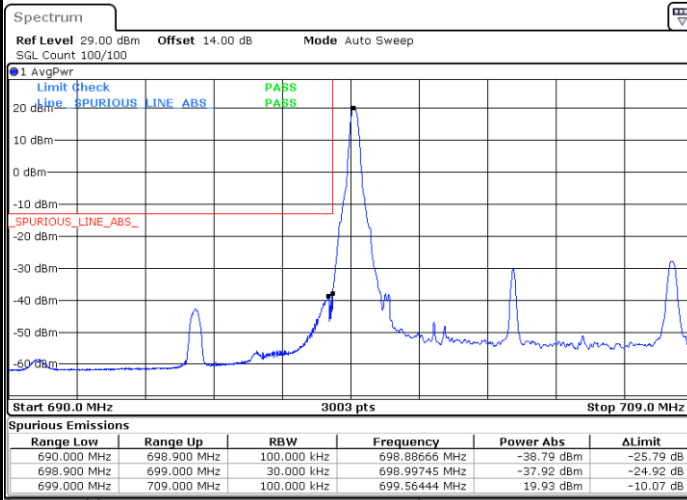


Date: 18.JUL.2022 19:36:53



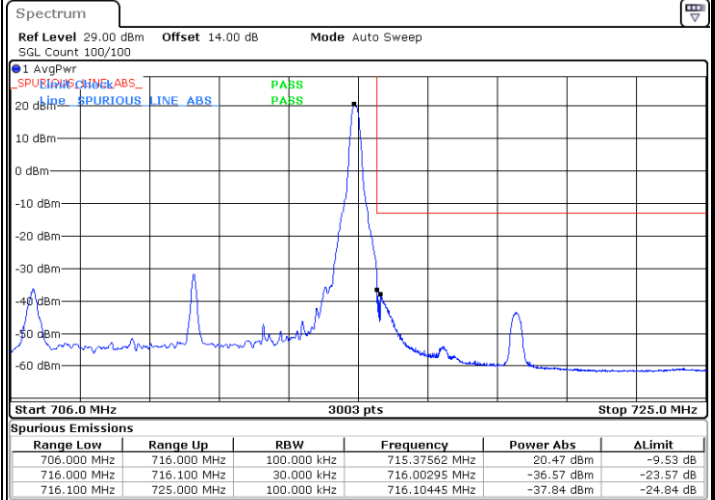
LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



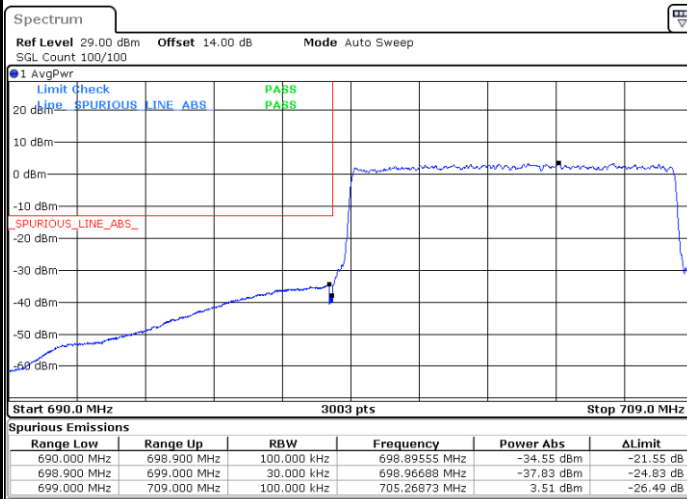
Date: 18.JUL.2022 19:26:32

Highest Band Edge / 1 RB



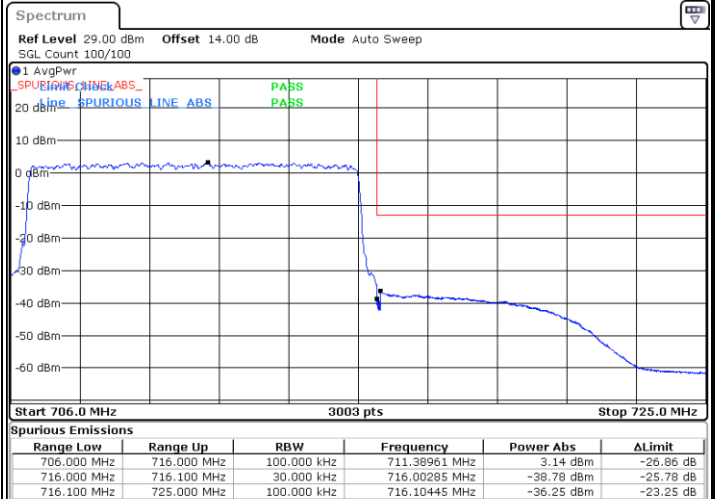
Date: 18.JUL.2022 19:39:59

Lowest Band Edge / Full RB



Date: 18.JUL.2022 19:25:00

Highest Band Edge / Full RB

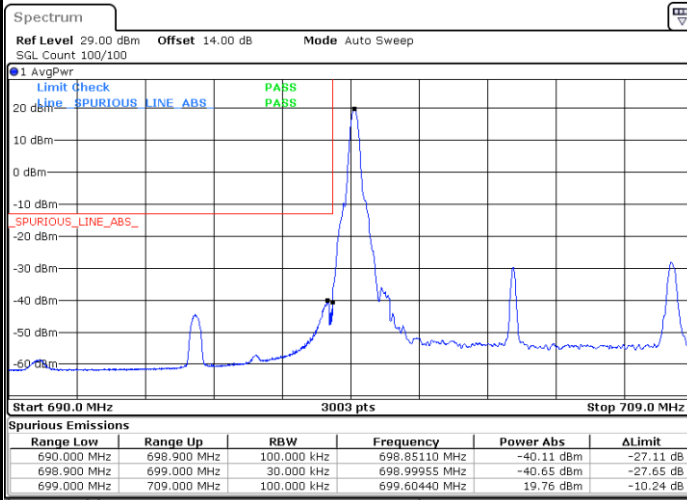


Date: 18.JUL.2022 19:38:26



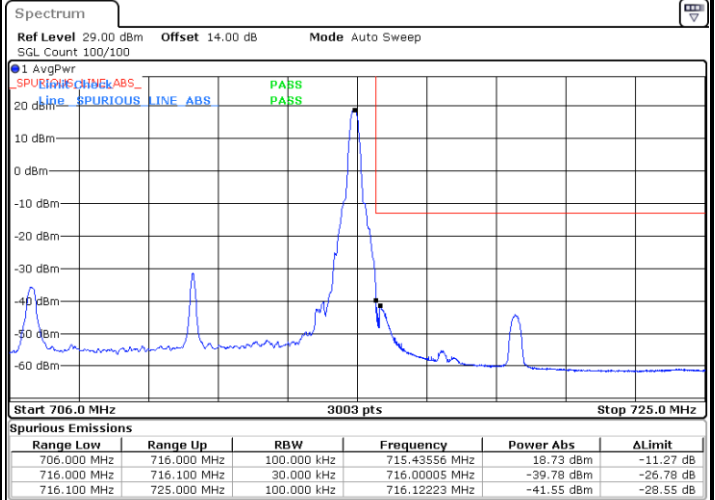
LTE Band 12 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



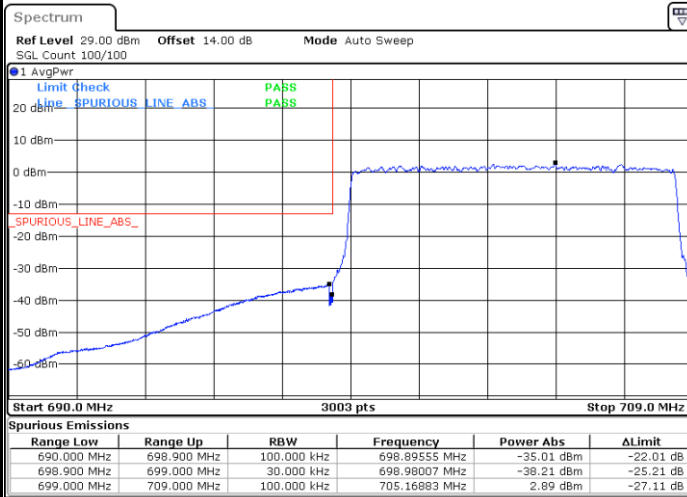
Date: 18.JUL.2022 19:46:42

Highest Band Edge / 1 RB



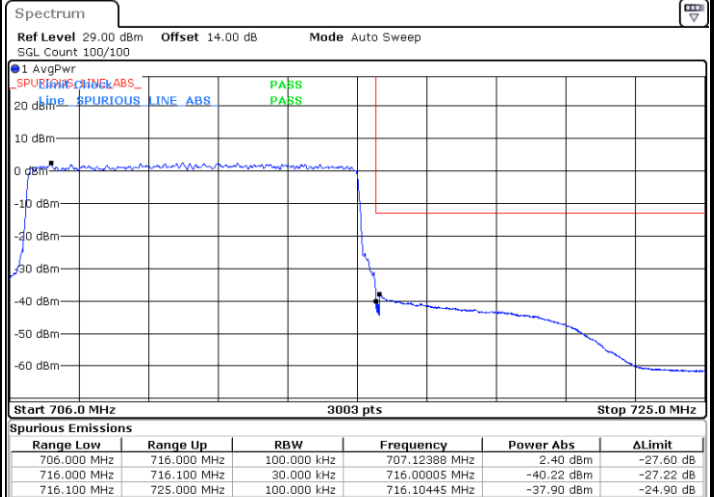
Date: 18.JUL.2022 19:53:04

Lowest Band Edge / Full RB



Date: 18.JUL.2022 19:45:09

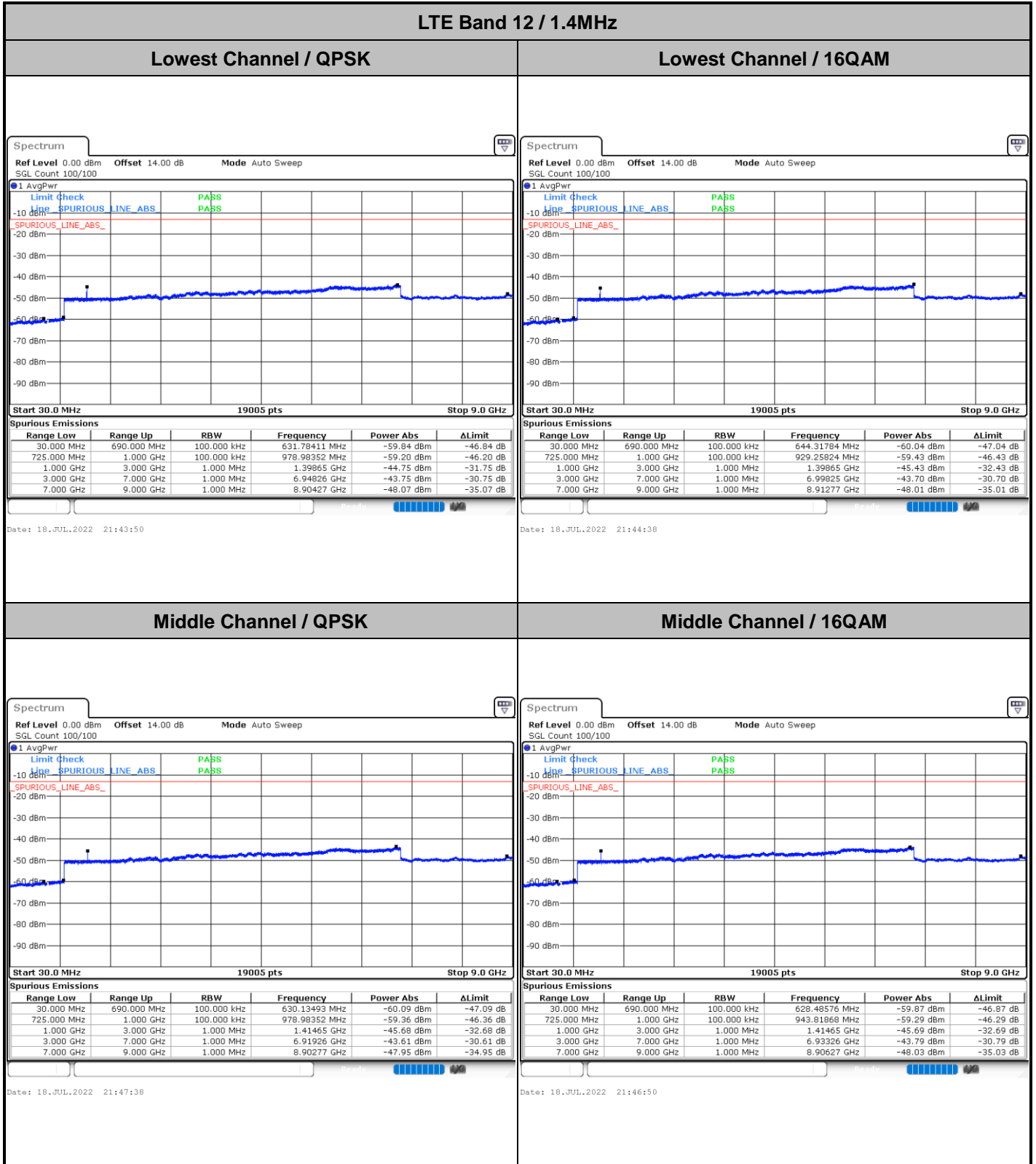
Highest Band Edge / Full RB



Date: 18.JUL.2022 19:51:31



Conducted Spurious Emission

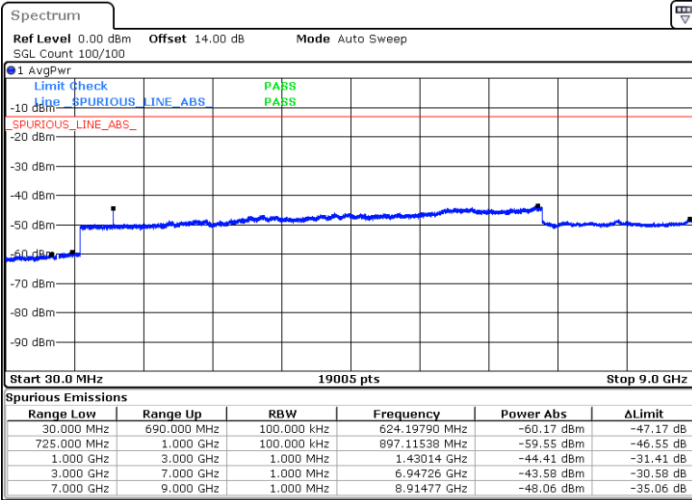




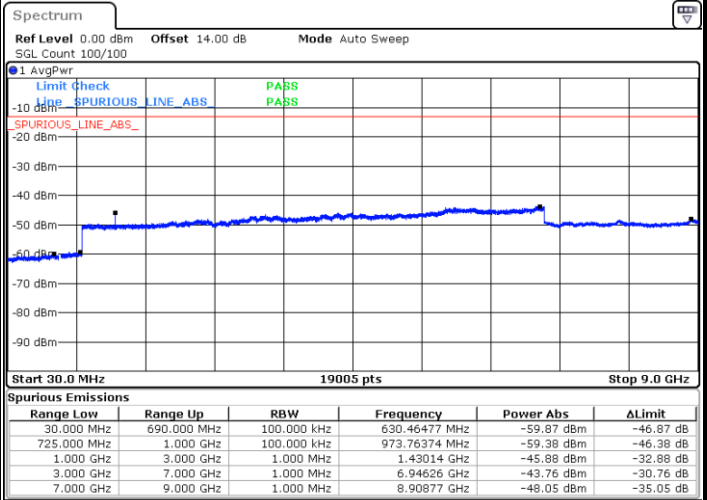
LTE Band 12 / 1.4MHz

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 18.JUL.2022 21:55:54

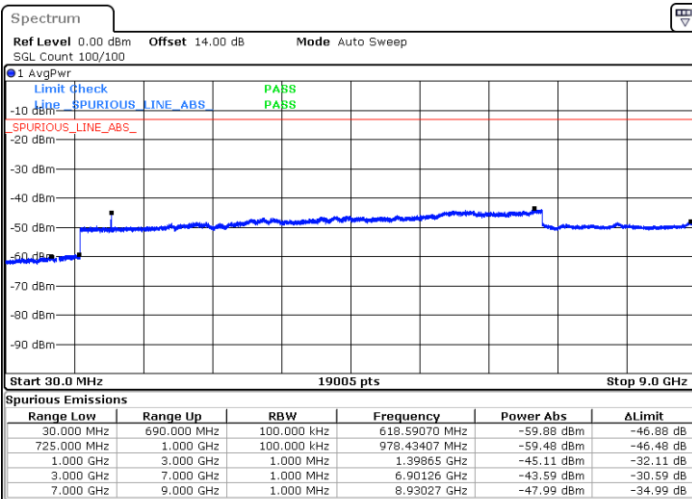


Date: 18.JUL.2022 21:56:42

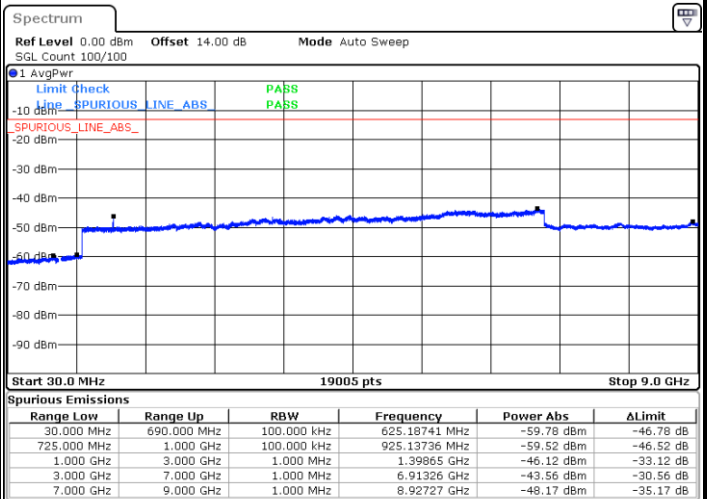
LTE Band 12 / 3MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 18.JUL.2022 18:26:43



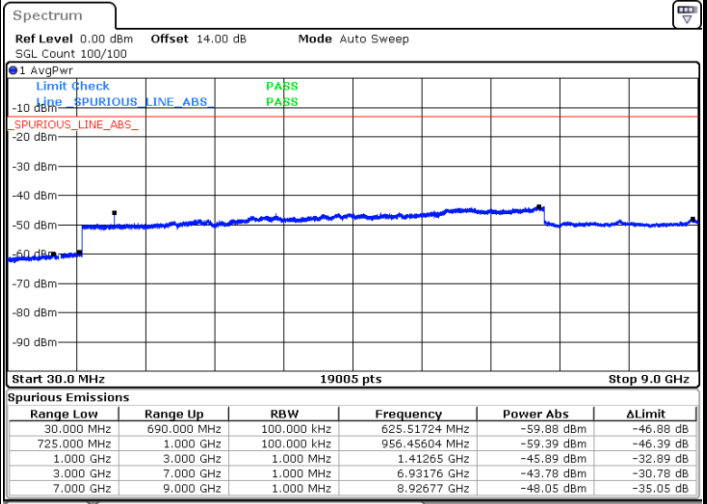
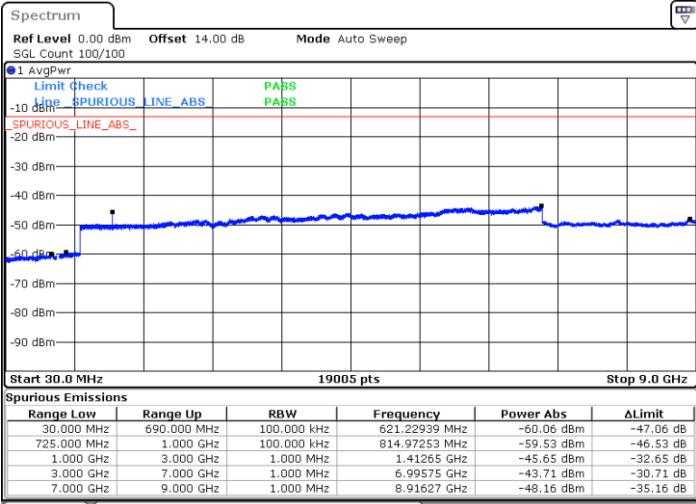
Date: 18.JUL.2022 18:27:31



LTE Band 12 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM

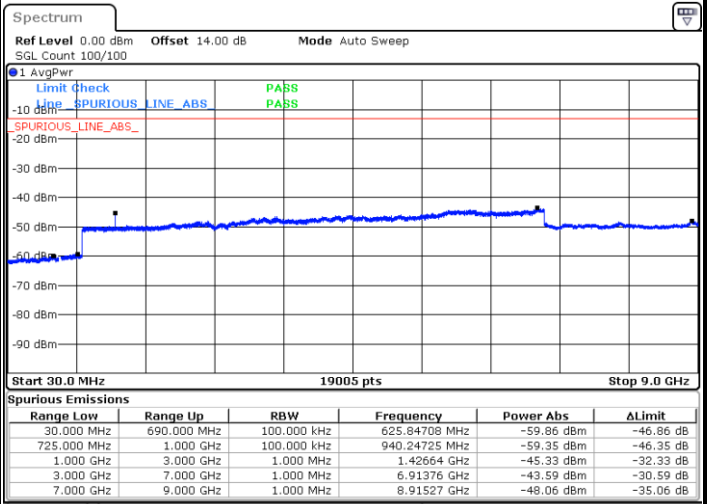
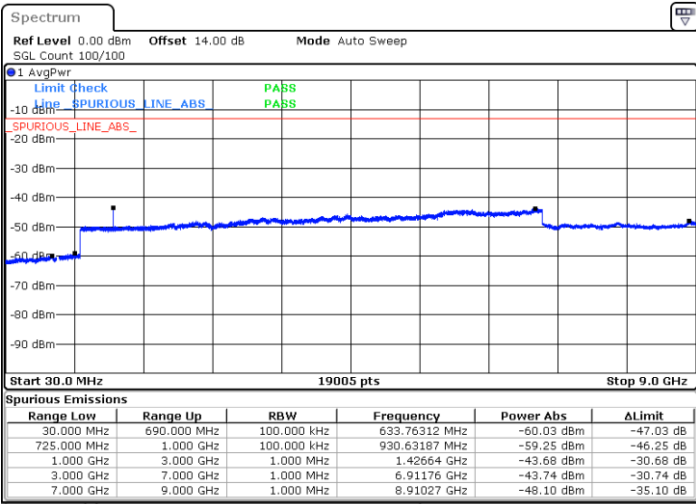


Date: 18.JUL.2022 18:30:31

Date: 18.JUL.2022 18:29:44

Highest Channel / QPSK

Highest Channel / 16QAM



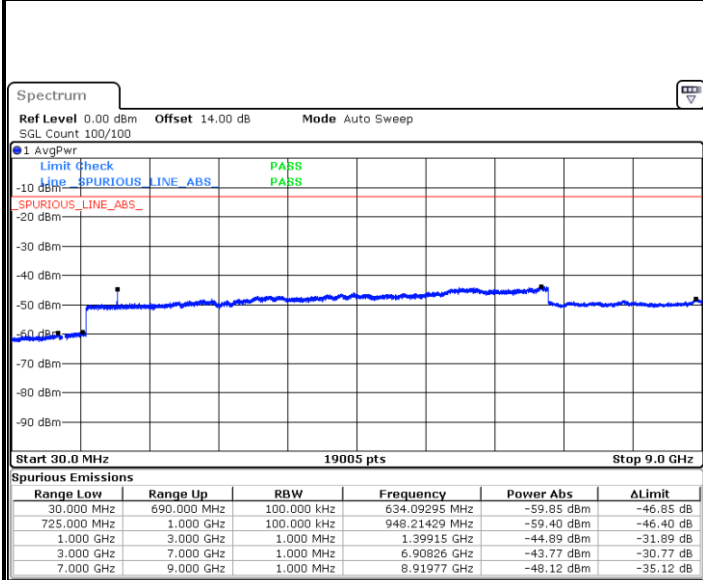
Date: 18.JUL.2022 18:38:47

Date: 18.JUL.2022 18:39:35



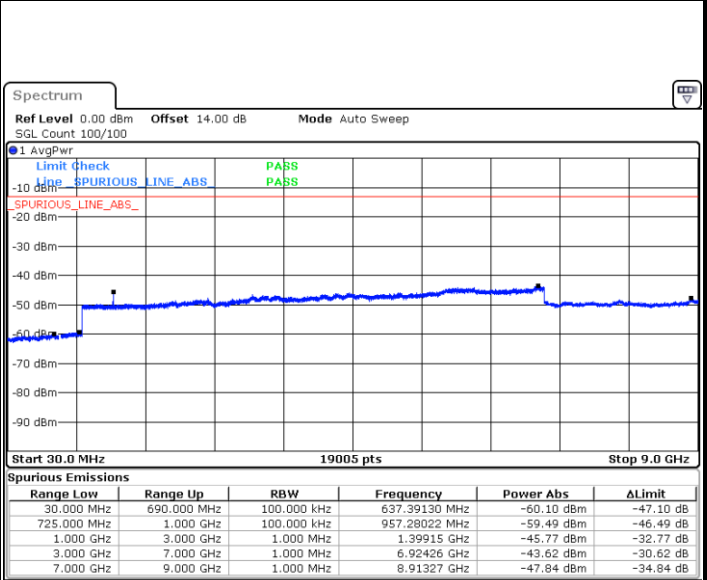
LTE Band 12 / 5MHz

Lowest Channel / QPSK



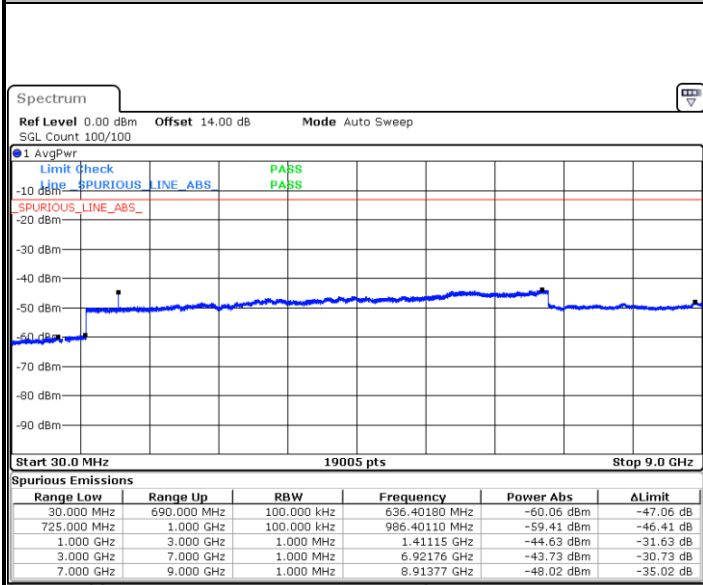
Date: 18.JUL.2022 19:07:44

Lowest Channel / 16QAM



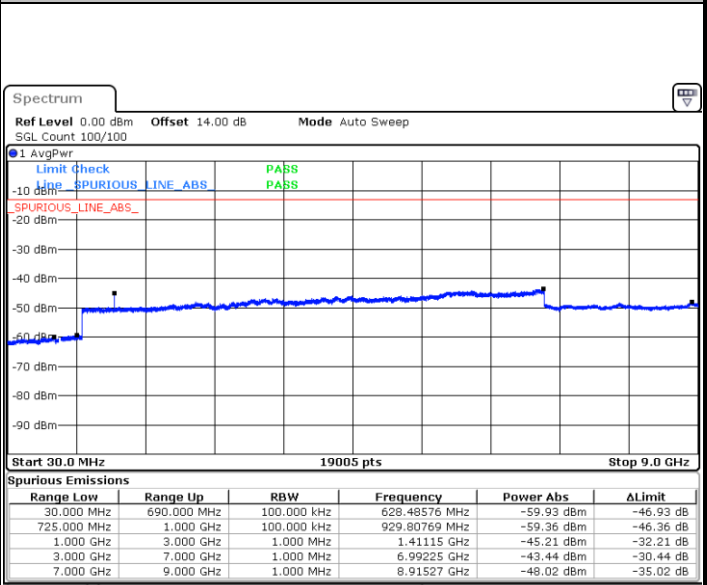
Date: 18.JUL.2022 19:08:33

Middle Channel / QPSK



Date: 18.JUL.2022 19:11:33

Middle Channel / 16QAM

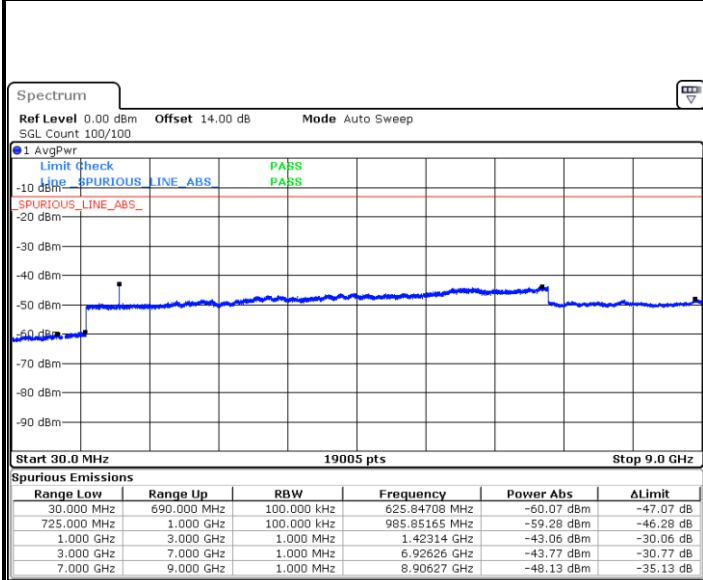


Date: 18.JUL.2022 19:10:46



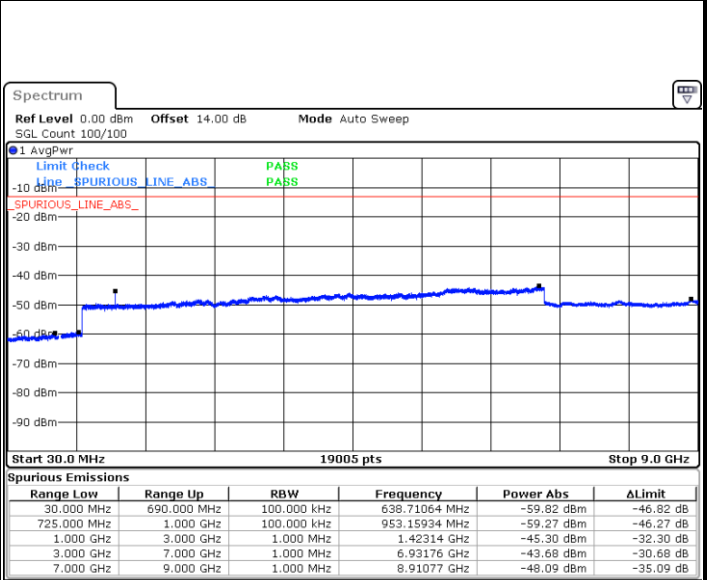
LTE Band 12 / 5MHz

Highest Channel / QPSK



Date: 18.JUL.2022 19:20:37

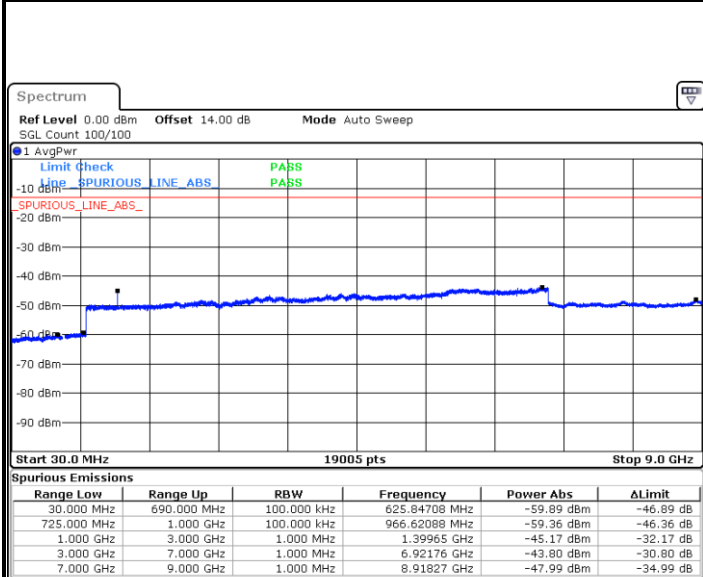
Highest Channel / 16QAM



Date: 18.JUL.2022 19:19:49

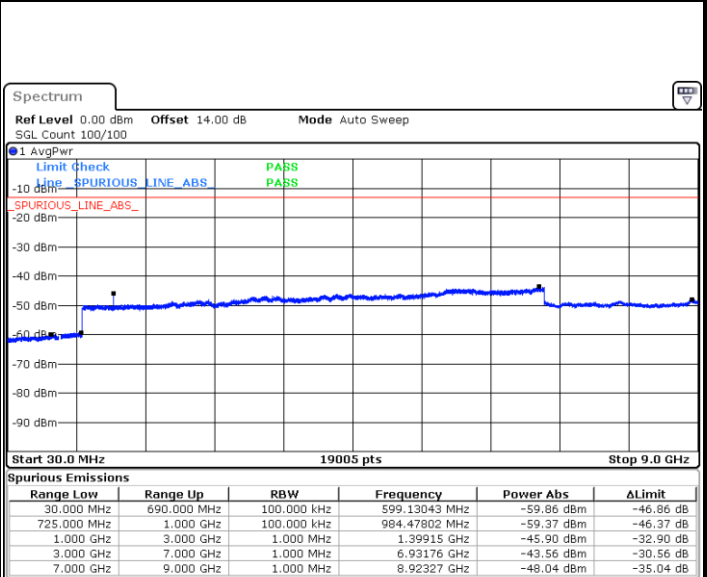
LTE Band 12 / 10MHz

Lowest Channel / QPSK



Date: 18.JUL.2022 19:28:44

Lowest Channel / 16QAM

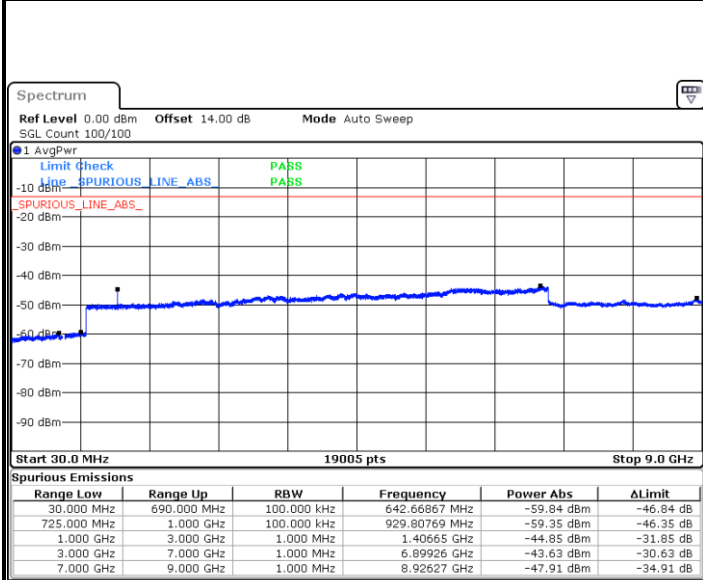


Date: 18.JUL.2022 19:29:32



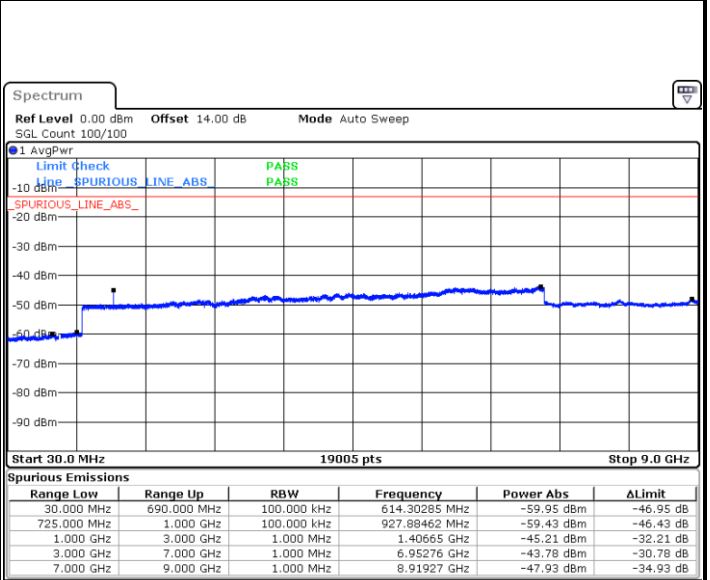
LTE Band 12 / 10MHz

Middle Channel / QPSK



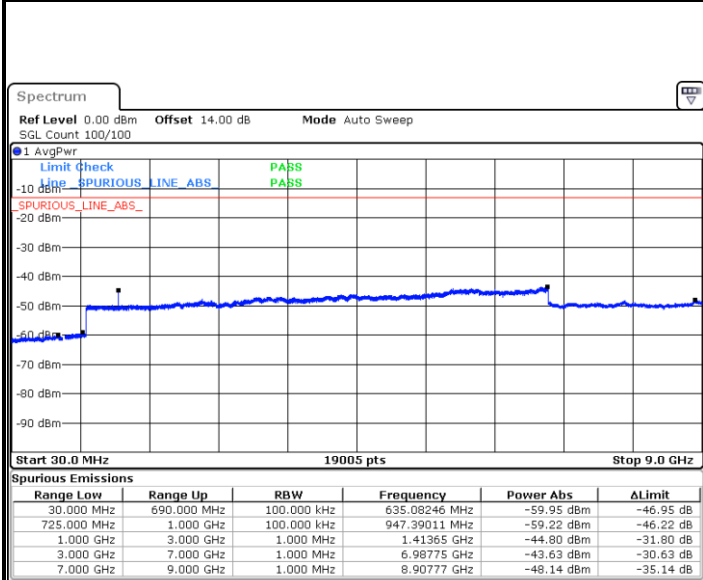
Date: 18.JUL.2022 19:32:31

Middle Channel / 16QAM



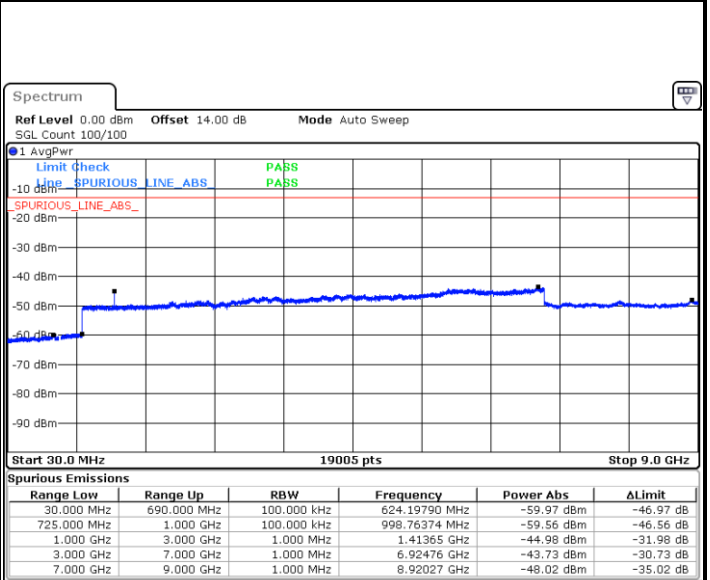
Date: 18.JUL.2022 19:31:44

Highest Channel / QPSK



Date: 18.JUL.2022 19:42:19

Highest Channel / 16QAM

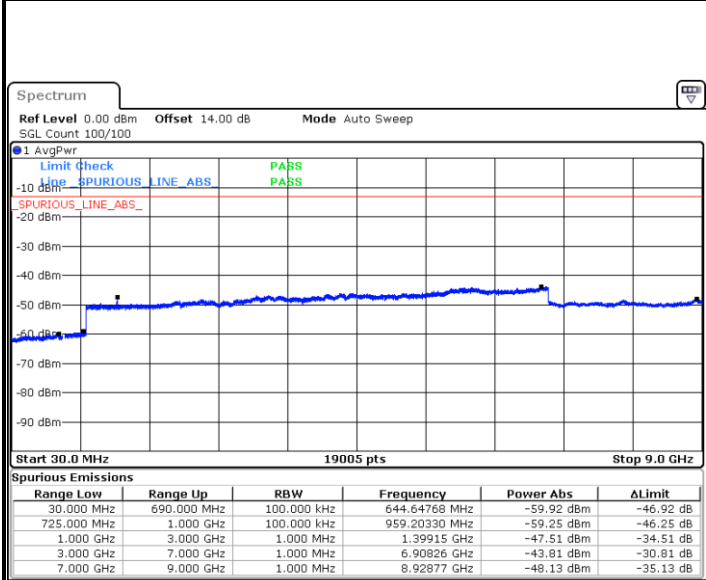


Date: 18.JUL.2022 19:43:07



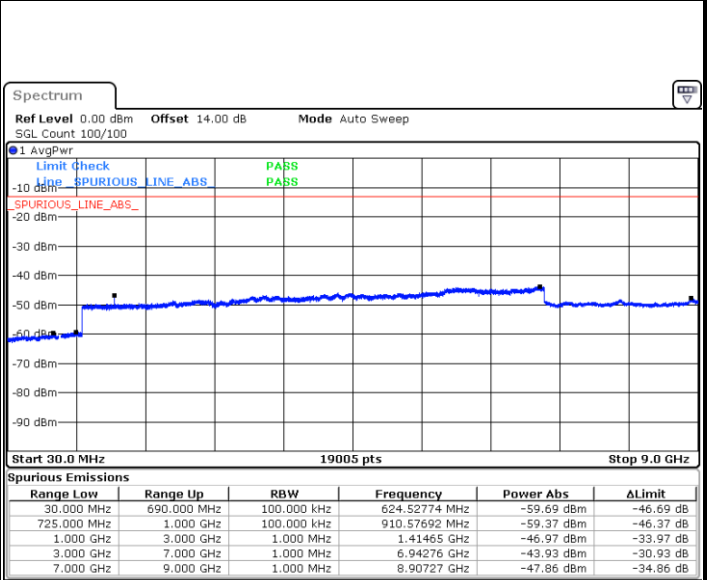
LTE Band 12 / 1.4MHz

Lowest Channel / 64QAM



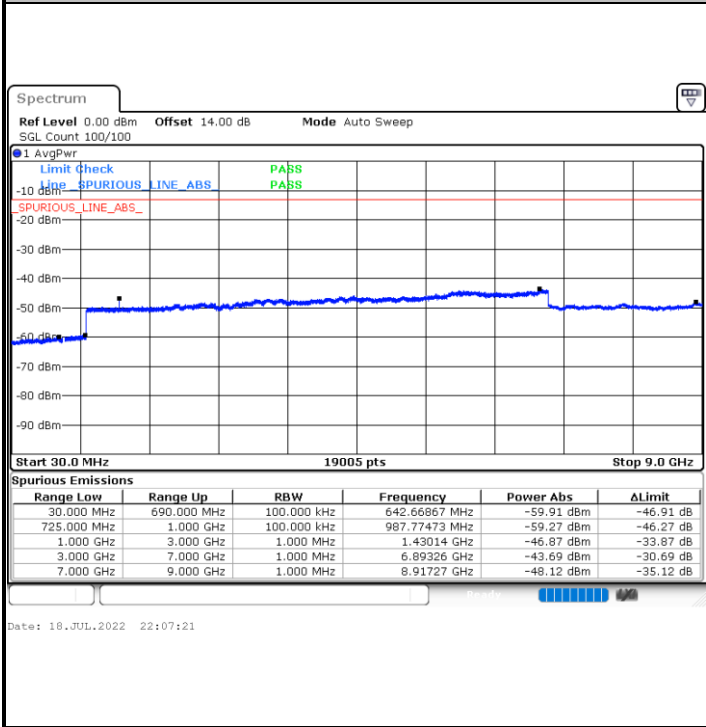
Date: 18.JUL.2022 22:01:33

Middle Channel / 64QAM



Date: 18.JUL.2022 22:02:59

Highest Channel / 64QAM



Date: 18.JUL.2022 22:07:21

N/A

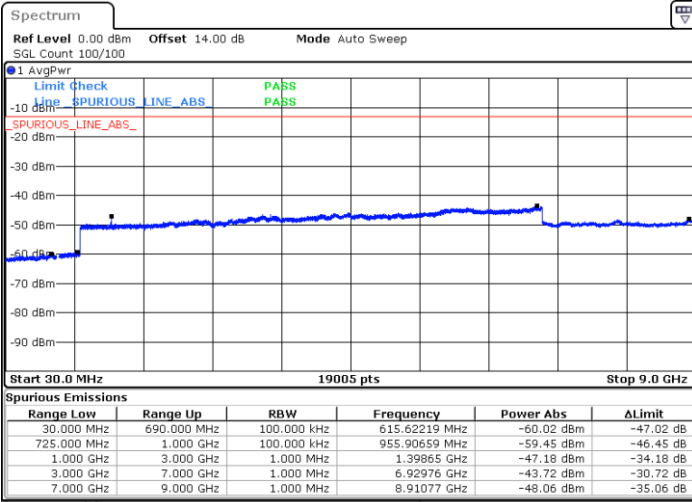
N/A



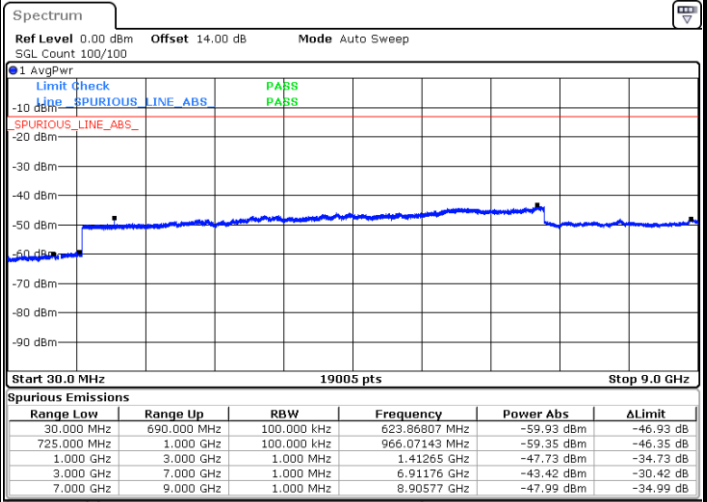
LTE Band 12 / 3MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM



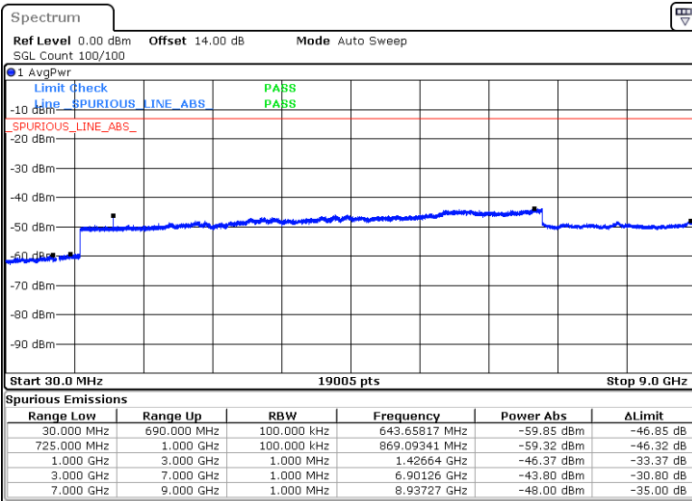
Date: 18.JUL.2022 18:43:48



Date: 18.JUL.2022 18:45:14

Highest Channel / 64QAM

N/A



Date: 18.JUL.2022 18:49:35

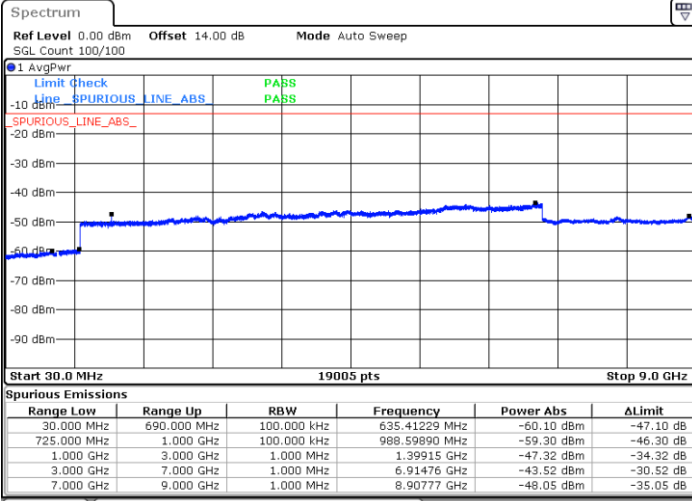
N/A



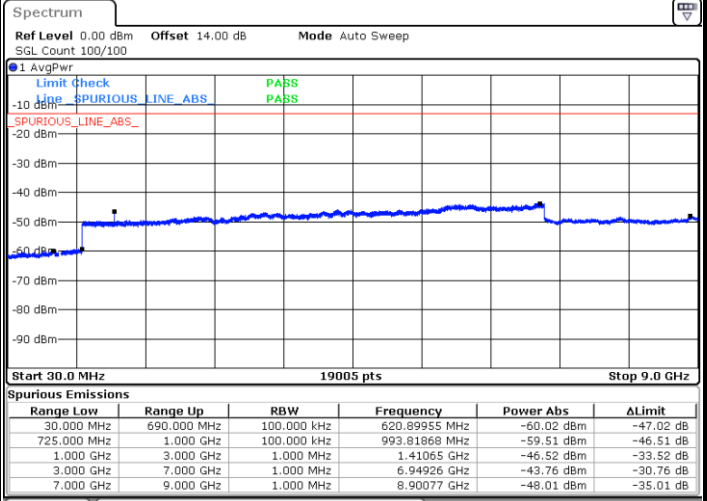
LTE Band 12 / 5MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM



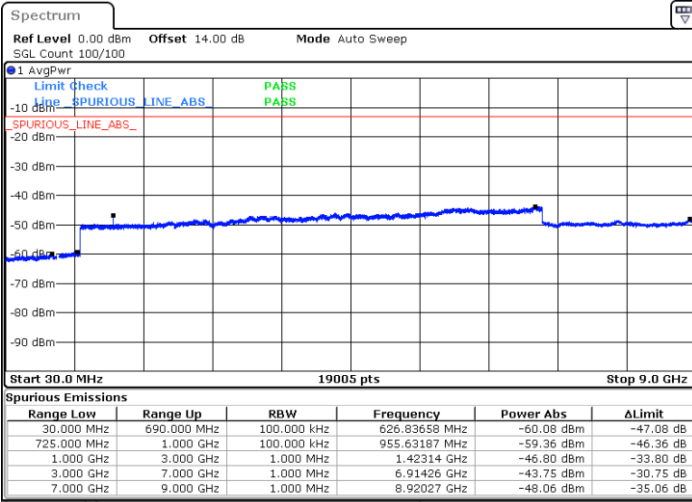
Date: 18.JUL.2022 18:53:49



Date: 18.JUL.2022 18:55:15

Highest Channel / 64QAM

N/A



Date: 18.JUL.2022 18:59:37

N/A



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	0.0038	PASS
40	Normal Voltage	0.0045	
30	Normal Voltage	0.0035	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0017	
0	Normal Voltage	0.0052	
-10	Normal Voltage	0.0047	
-20	Normal Voltage	0.0054	
-30	Normal Voltage	0.0044	
20	Maximum Voltage	0.0033	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0151	

Note:

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.45 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 13

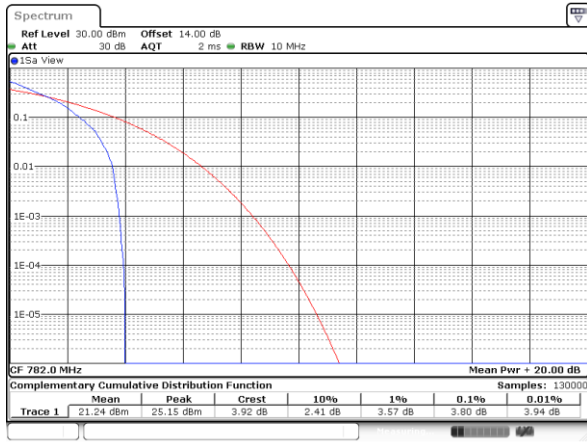
Peak-to-Average Ratio

Mode	LTE Band 13 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	-	-	-	-	PASS
Middle CH	3.80	4.46	4.29	5.33	
Highest CH	-	-	-	-	
Mode	LTE Band 13 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	-	-	-	-	PASS
Middle CH	5.59	5.86	-	-	
Highest CH	-	-	-	-	



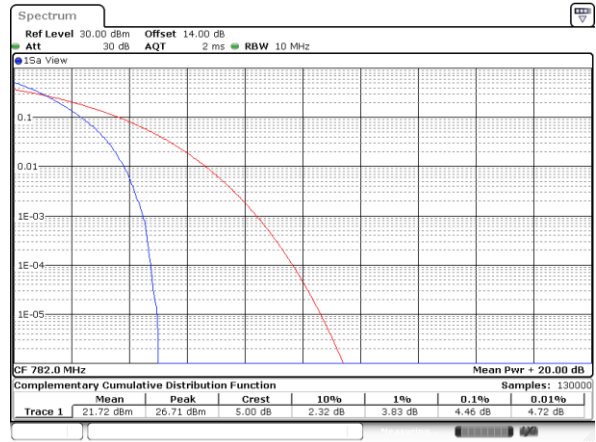
LTE Band 13 / 10MHz / QPSK

Middle Channel / 1RB



Date: 18_JUL_2022 23:37:41

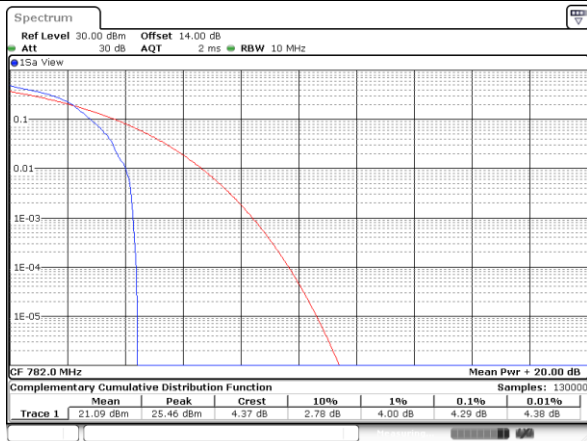
Middle Channel / Full RB



Date: 18_JUL_2022 23:38:06

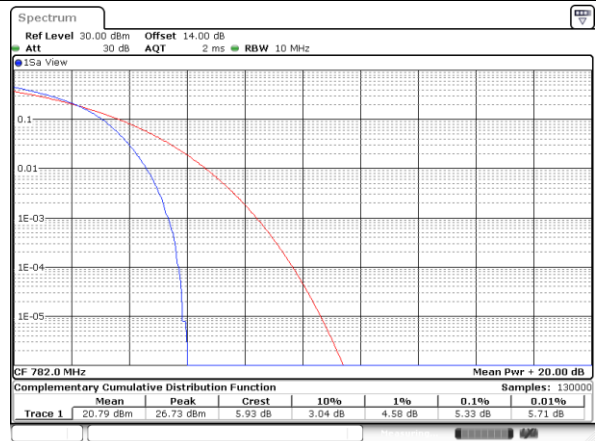
LTE Band 13 / 10MHz / 16QAM

Middle Channel / 1RB



Date: 18_JUL_2022 23:36:50

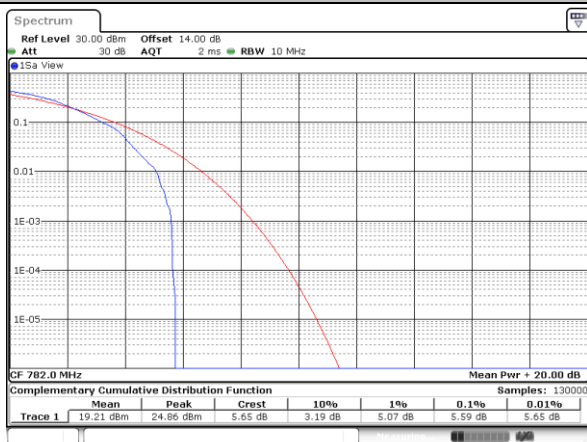
Middle Channel / Full RB



Date: 18_JUL_2022 23:37:16

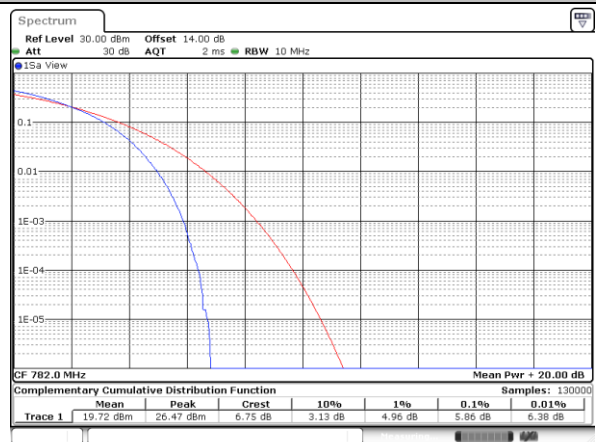
LTE Band 13 / 10MHz / 64QAM

Middle Channel / 1RB



Date: 18_JUL_2022 23:36:00

Middle Channel / Full RB



Date: 18_JUL_2022 23:36:25



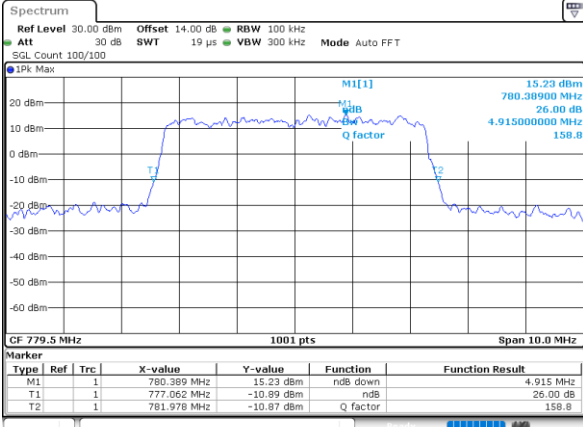
26dB Bandwidth

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	-	-	-	-	4.92	4.94	-	-	-	-	-	-
Middle CH	-	-	-	-	4.88	4.91	9.95	9.77	-	-	-	-
Highest CH	-	-	-	-	4.91	4.93	-	-	-	-	-	-
Mode	LTE Band 13 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.95	-	-	-	-	-	-	-
Middle CH	-	-	-	-	4.93	-	9.79	-	-	-	-	-
Highest CH	-	-	-	-	5.03	-	-	-	-	-	-	-



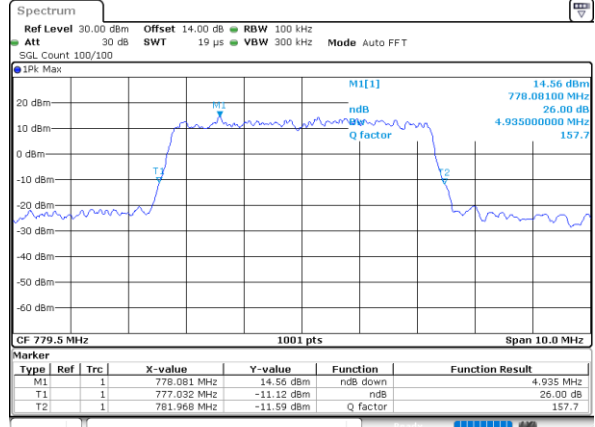
LTE Band 13

Lowest Channel / 5MHz / QPSK



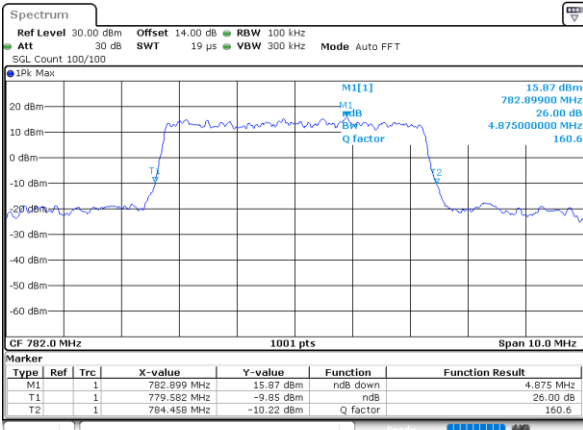
Date: 18_JUL_2022 22:22:14

Lowest Channel / 5MHz / 16QAM



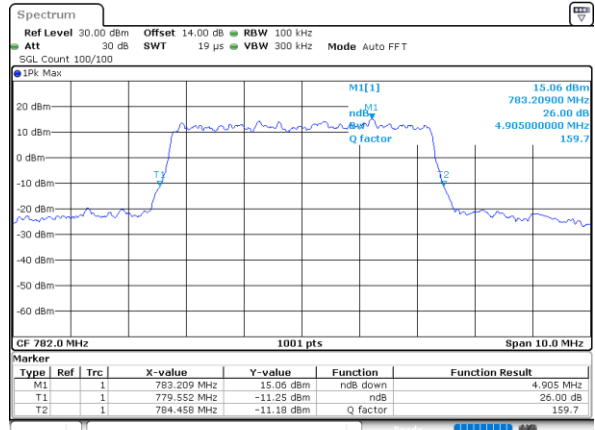
Date: 18_JUL_2022 22:22:10

Middle Channel / 5MHz / QPSK



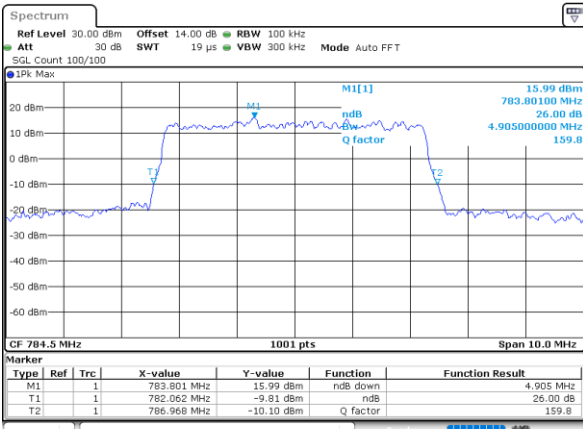
Date: 18_JUL_2022 22:33:21

Middle Channel / 5MHz / 16QAM



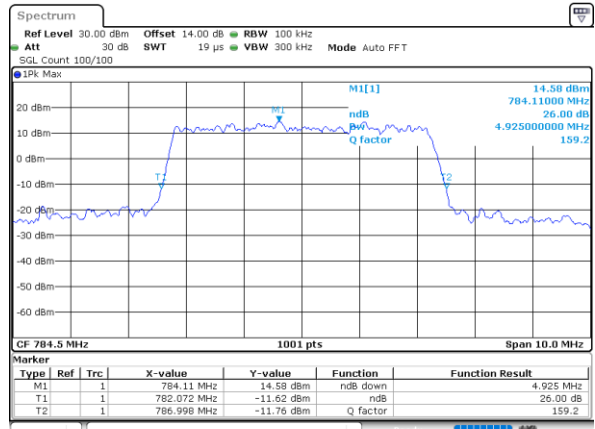
Date: 18_JUL_2022 22:33:44

Highest Channel / 5MHz / QPSK



Date: 18_JUL_2022 22:35:49

Highest Channel / 5MHz / 16QAM

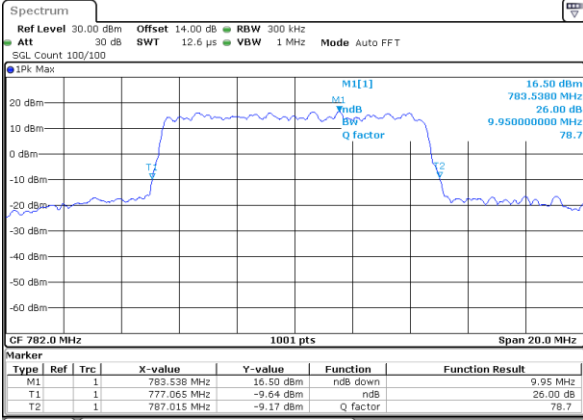


Date: 18_JUL_2022 22:35:25



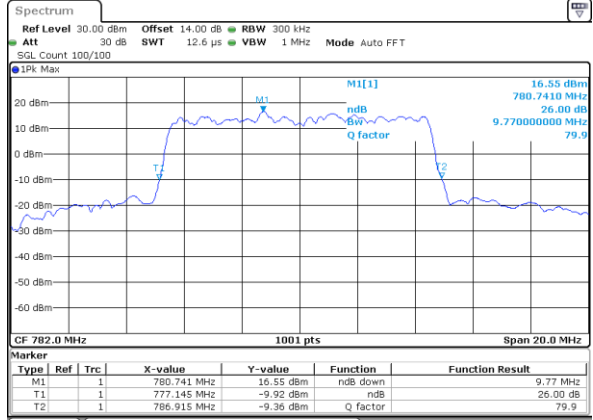
LTE Band 13

Middle Channel / 10MHz / QPSK



Date: 18_JUL_2022 23:16:14

Middle Channel / 10MHz / 16QAM



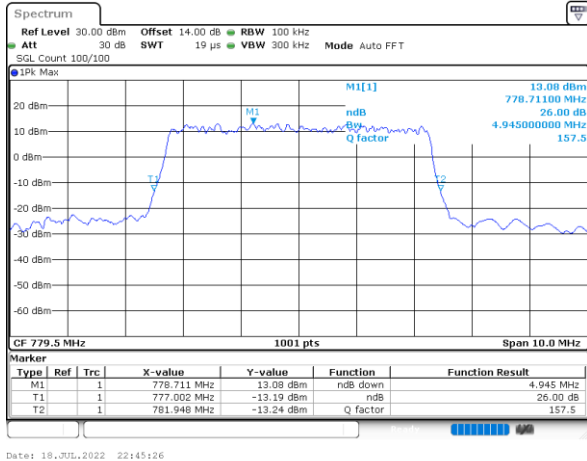
Date: 18_JUL_2022 23:15:51



LTE Band 13

Lowest Channel / 5MHz / 64QAM

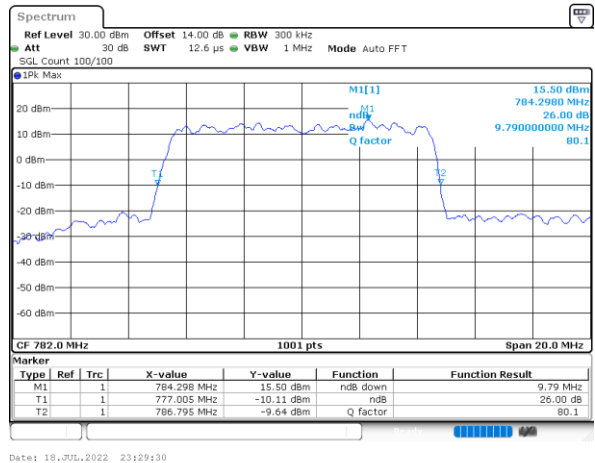
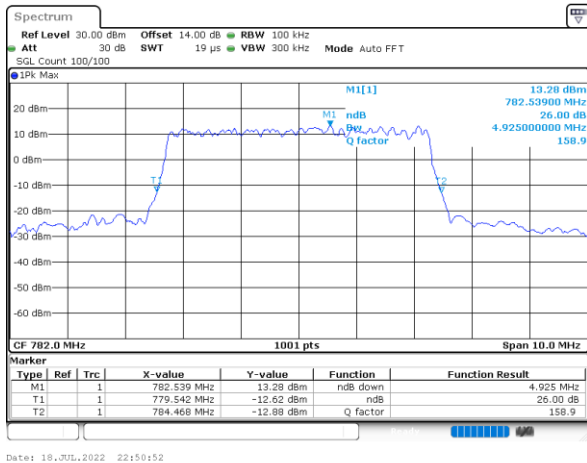
N/A



N/A

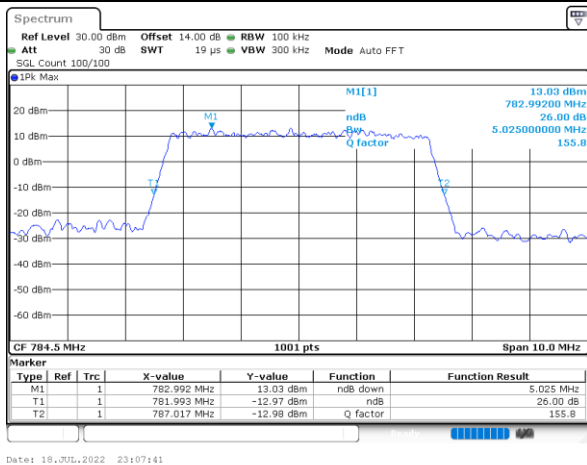
Middle Channel / 5MHz / 64QAM

Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM

N/A



N/A



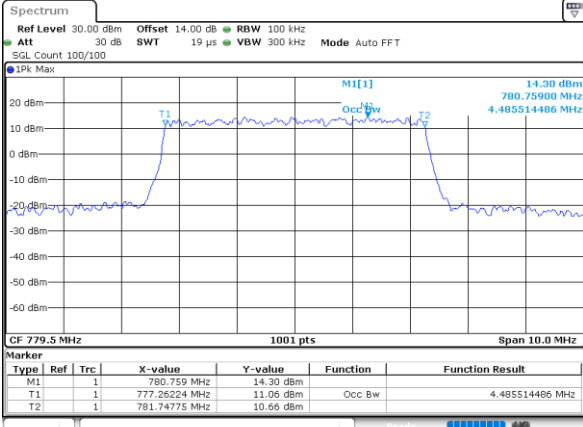
Occupied Bandwidth

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	4.48	-	-	-	-	-	-
Middle CH	-	-	-	-	4.48	4.50	9.05	9.05	-	-	-	-
Highest CH	-	-	-	-	4.49	4.49	-	-	-	-	-	-
Mode	LTE Band 13 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.48	-	-	-	-	-	-	-
Middle CH	-	-	-	-	4.48	-	9.03	-	-	-	-	-
Highest CH	-	-	-	-	4.54	-	-	-	-	-	-	-



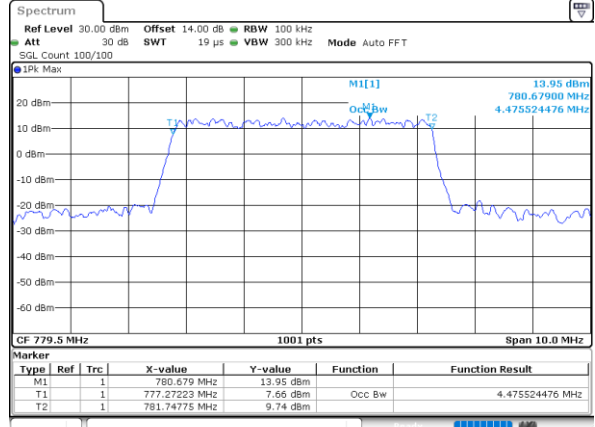
LTE Band 13

Lowest Channel / 5MHz / QPSK



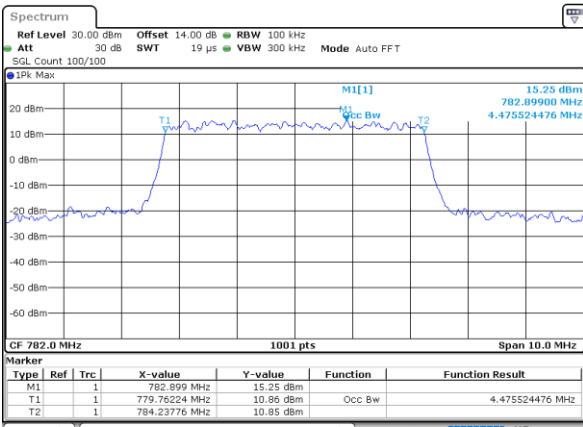
Date: 18_JUL_2022 22:21:29

Lowest Channel / 5MHz / 16QAM



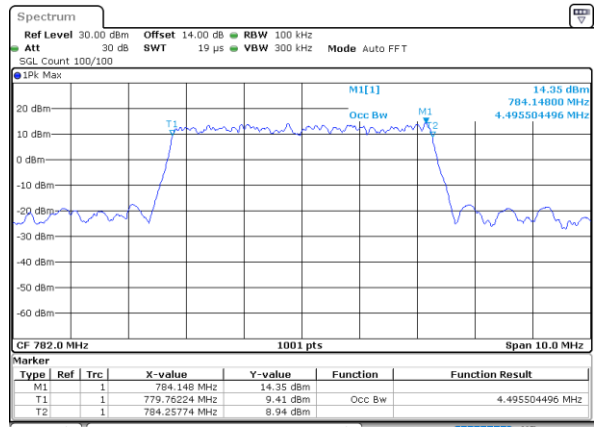
Date: 18_JUL_2022 22:21:56

Middle Channel / 5MHz / QPSK



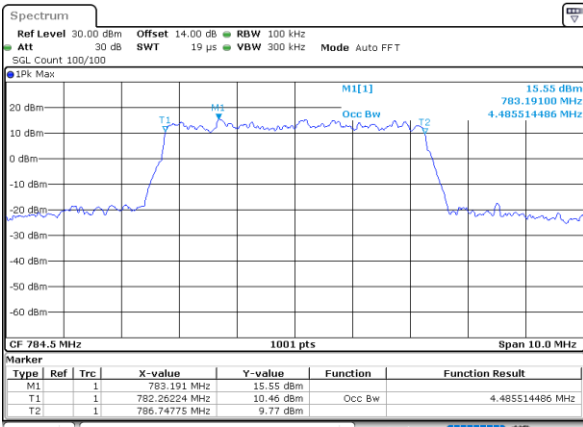
Date: 18_JUL_2022 22:34:23

Middle Channel / 5MHz / 16QAM



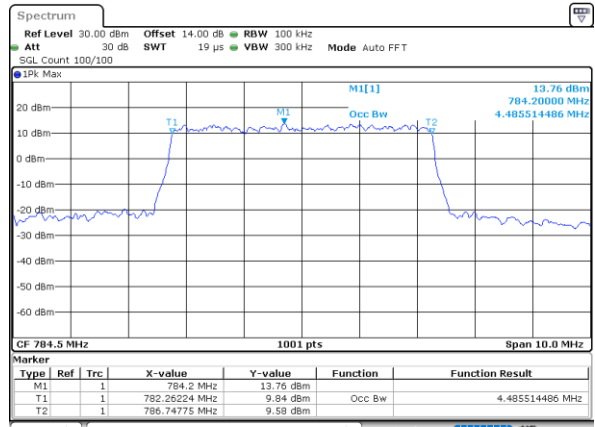
Date: 18_JUL_2022 22:33:59

Highest Channel / 5MHz / QPSK



Date: 18_JUL_2022 22:34:46

Highest Channel / 5MHz / 16QAM

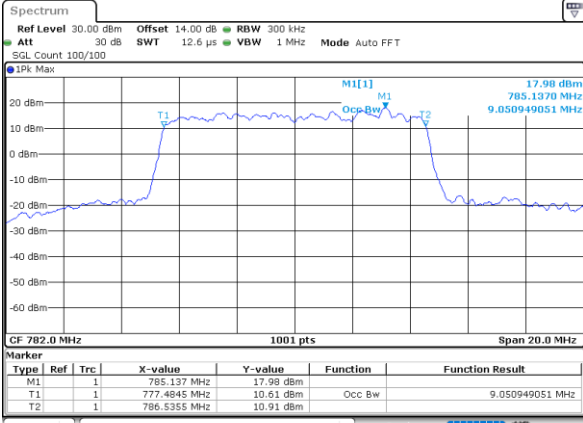


Date: 18_JUL_2022 22:35:11



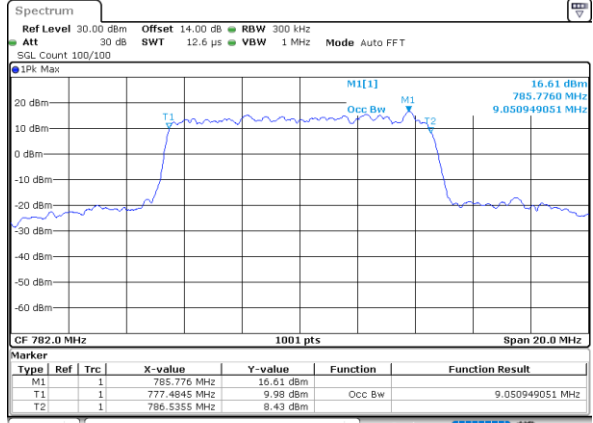
LTE Band 13

Middle Channel / 10MHz / QPSK



Date: 18_JUL_2022 23:15:13

Middle Channel / 10MHz / 16QAM



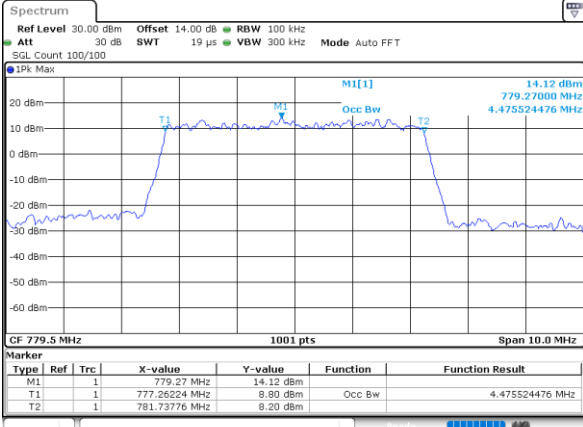
Date: 18_JUL_2022 23:15:36



LTE Band 13

Lowest Channel / 5MHz / 64QAM

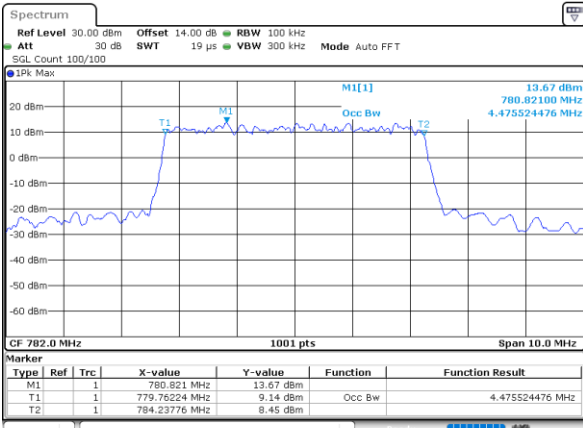
N/A



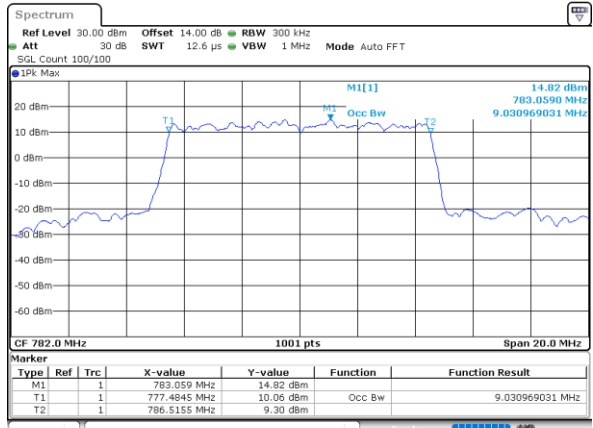
Date: 18_JUL_2022 22:45:11

Middle Channel / 5MHz / 64QAM

Middle Channel / 10MHz / 64QAM



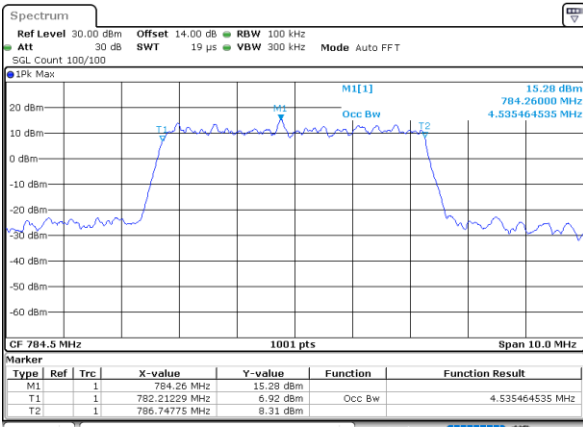
Date: 18_JUL_2022 22:51:07



Date: 18_JUL_2022 23:29:15

Highest Channel / 5MHz / 64QAM

N/A



Date: 18_JUL_2022 23:07:26

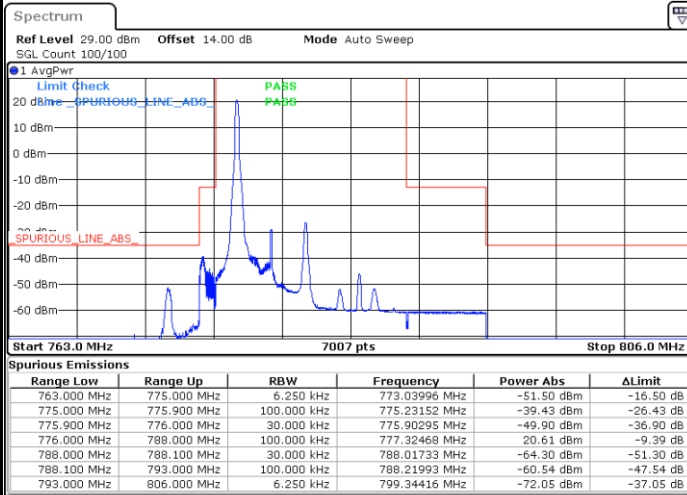
N/A



Conducted Band Edge

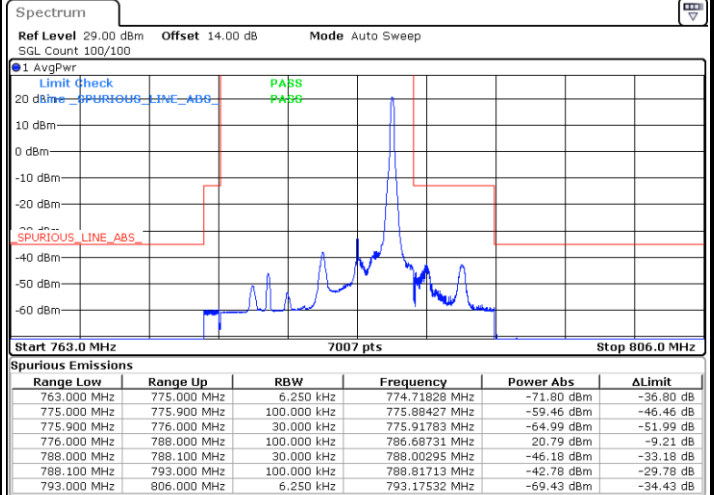
LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB



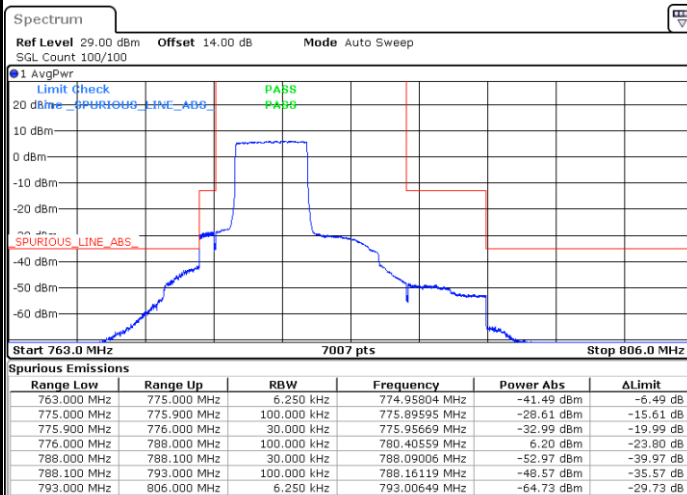
Date: 18.JUL.2022 22:29:56

Highest Band Edge / 1 RB



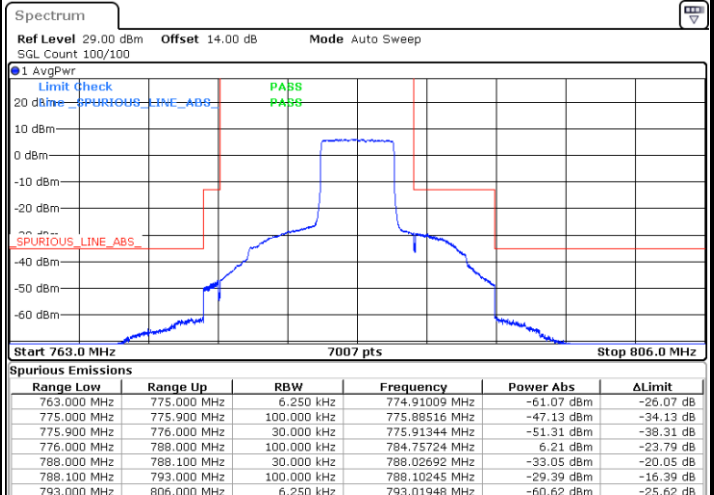
Date: 18.JUL.2022 22:43:11

Lowest Band Edge / Full RB



Date: 18.JUL.2022 22:24:17

Highest Band Edge / Full RB



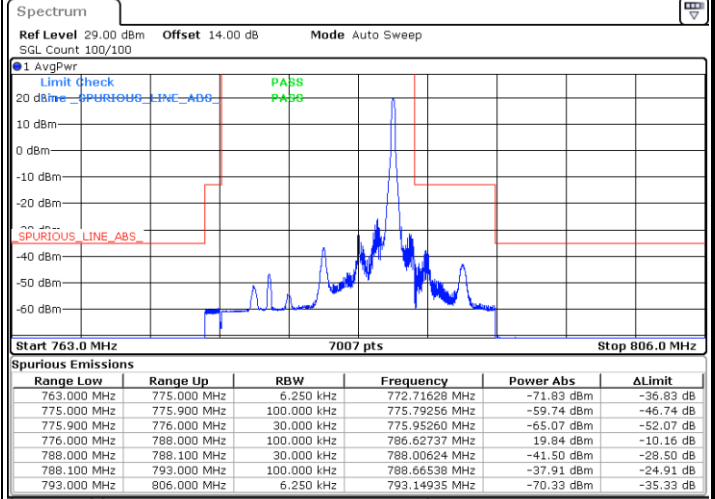
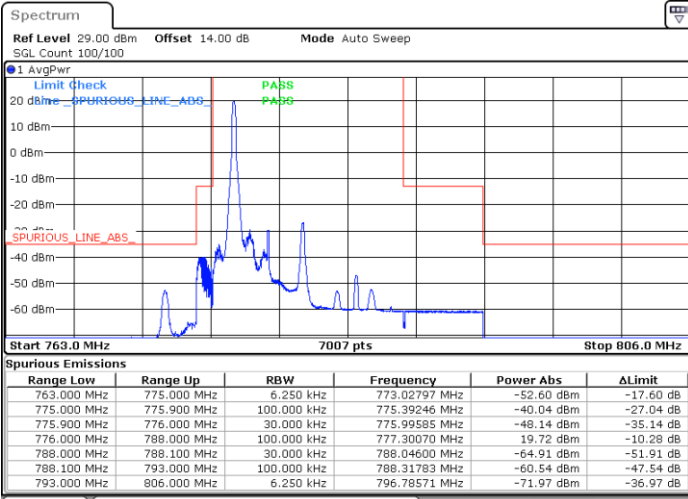
Date: 18.JUL.2022 22:37:32



LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

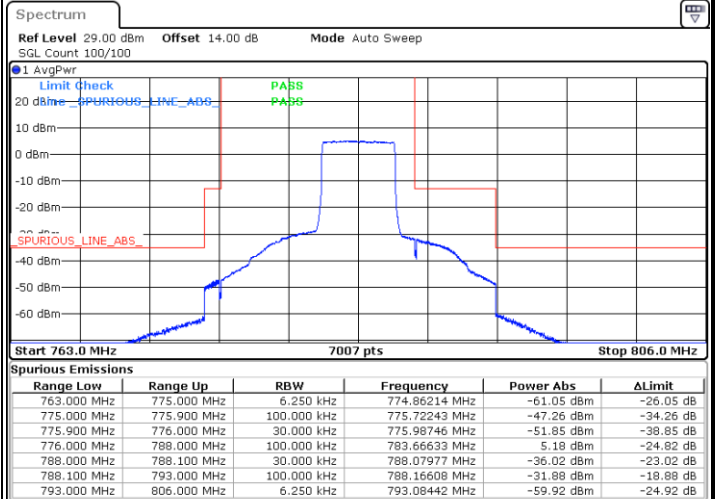
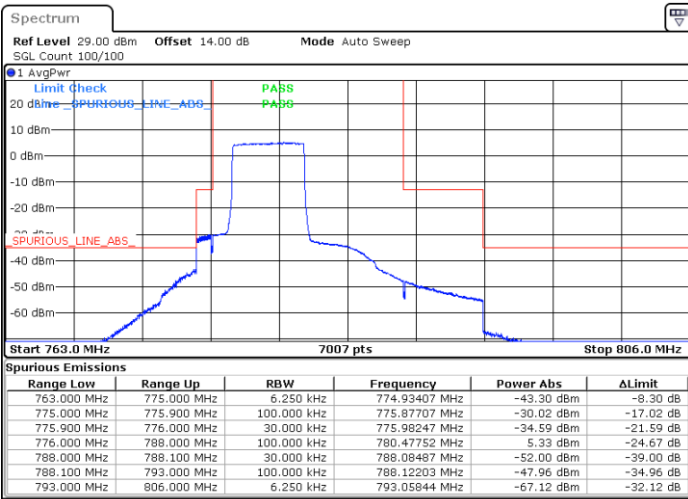


Date: 18.JUL.2022 22:28:03

Date: 18.JUL.2022 22:41:18

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 18.JUL.2022 22:26:10

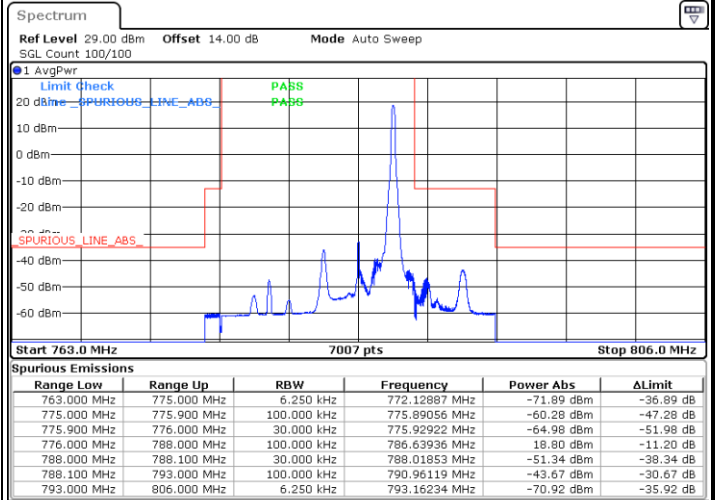
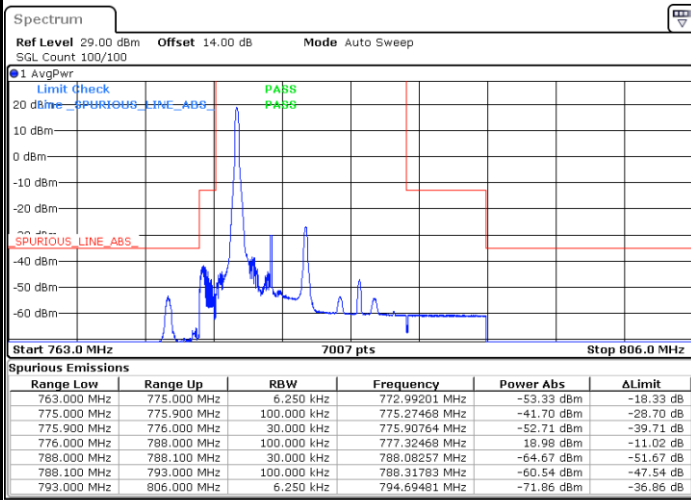
Date: 18.JUL.2022 22:39:25



LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

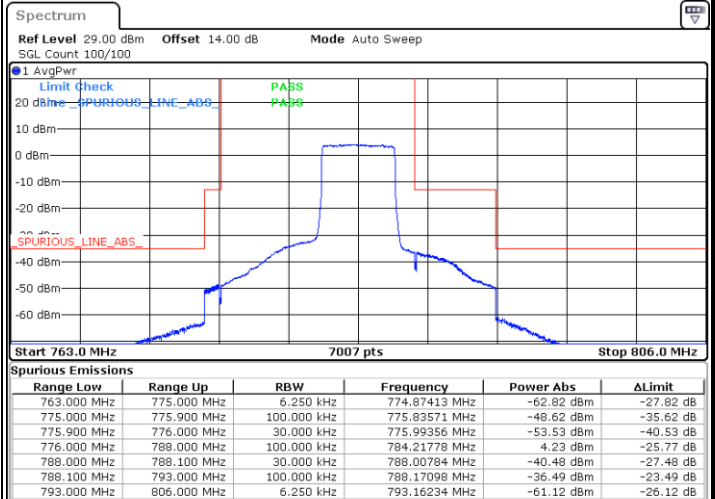
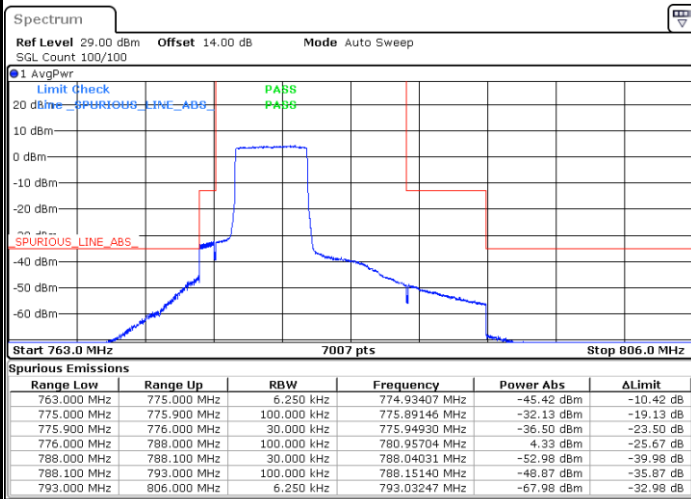


Date: 18.JUL.2022 22:49:03

Date: 18.JUL.2022 23:11:17

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



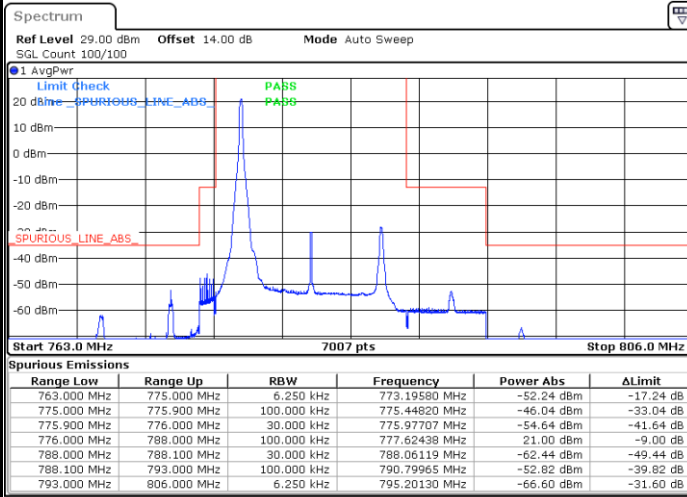
Date: 18.JUL.2022 22:47:09

Date: 18.JUL.2022 23:09:24



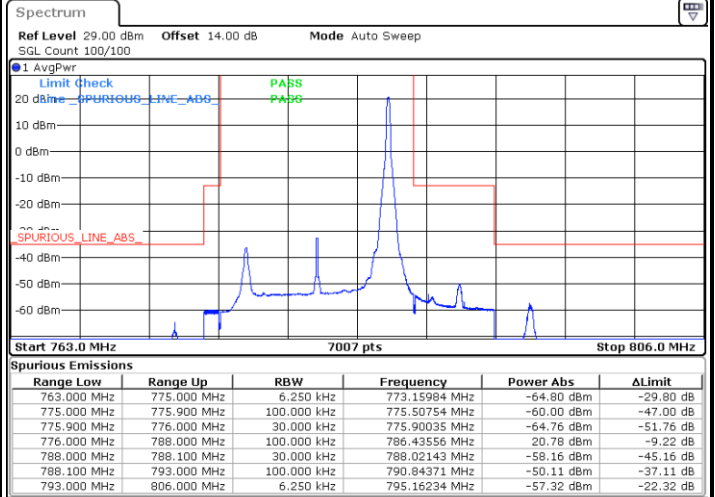
LTE Band 13 / 10MHz / QPSK

Lowest Band Edge / 1 RB



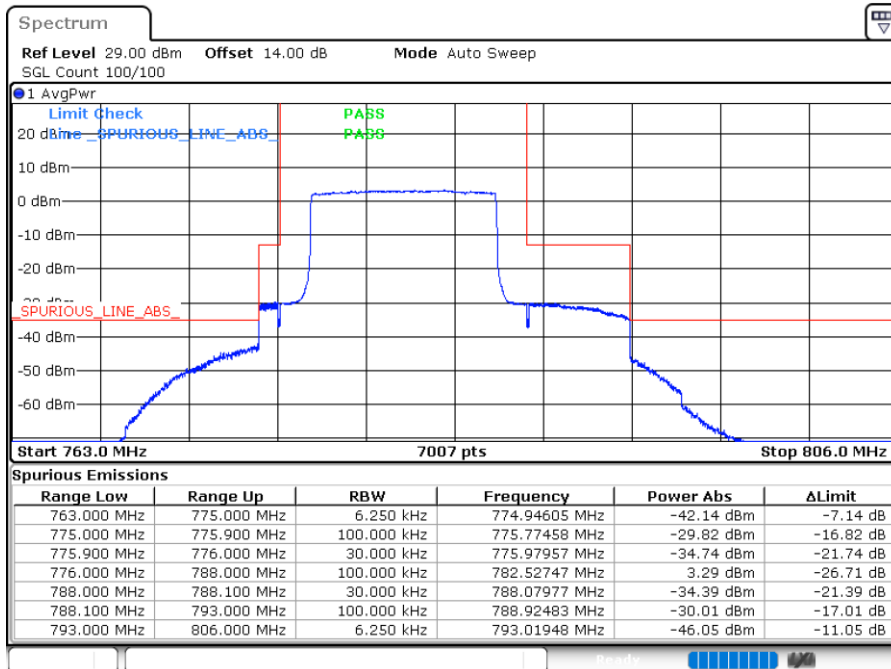
Date: 18.JUL.2022 23:23:33

Highest Band Edge / 1 RB



Date: 18.JUL.2022 23:25:25

Band Edge / Full RB



Date: 18.JUL.2022 23:17:57