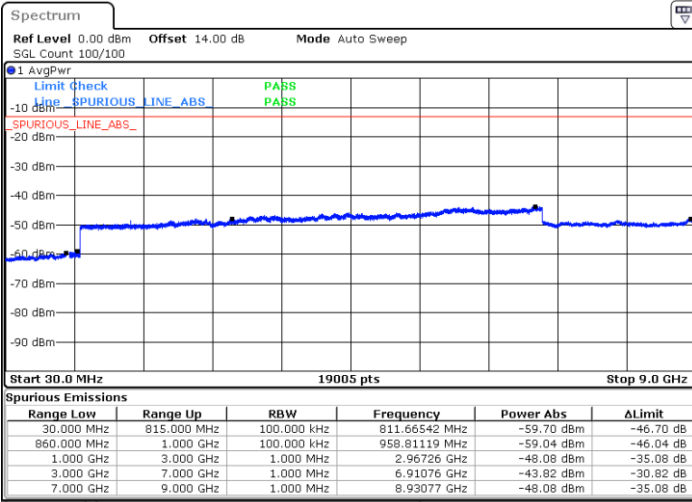




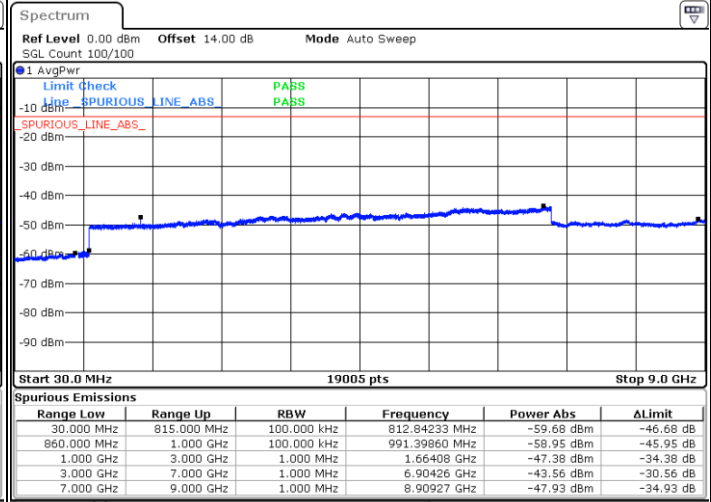
LTE Band 5 / 10MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM



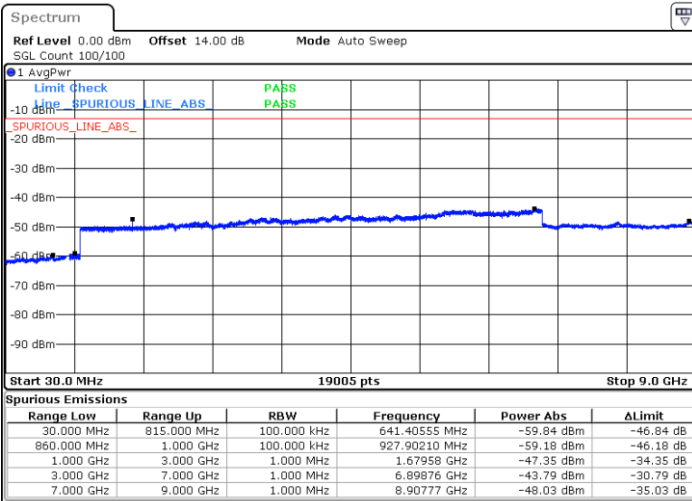
Date: 22.JUL.2022 19:52:19



Date: 22.JUL.2022 19:53:50

Highest Channel / 64QAM

N/A



Date: 22.JUL.2022 19:59:07

N/A



Frequency Stability

Test Conditions		LTE Band 5 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0005	PASS
40	Normal Voltage	0.0011	
30	Normal Voltage	0.0004	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0007	
0	Normal Voltage	0.0010	
-10	Normal Voltage	0.0012	
-20	Normal Voltage	0.0001	
-30	Normal Voltage	0.0005	
20	Maximum Voltage	0.0008	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0001	

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 12

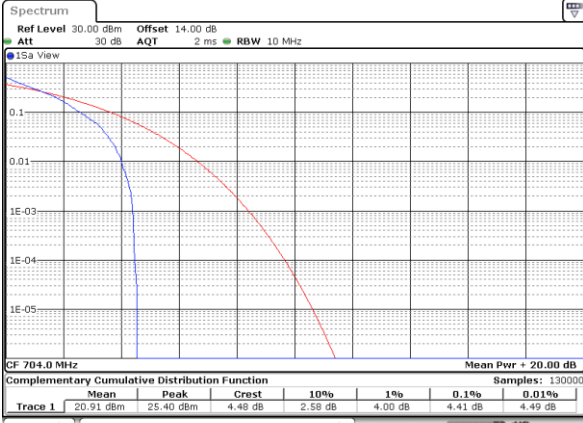
Peak-to-Average Ratio

Mode	LTE Band 12 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.41	4.96	4.87	5.91	PASS
Middle CH	4.41	4.90	5.33	5.88	
Highest CH	4.58	4.93	5.65	5.86	
Mode	LTE Band 12 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	5.97	6.32	-	-	PASS
Middle CH	6.06	6.43	-	-	
Highest CH	6.41	6.35	-	-	



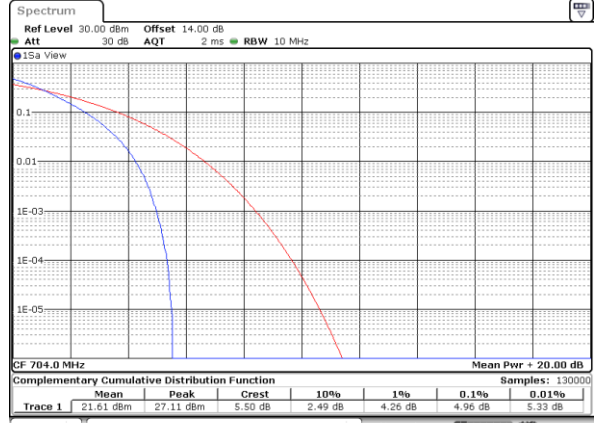
LTE Band 12 / 10MHz / QPSK

Lowest Channel / 1RB



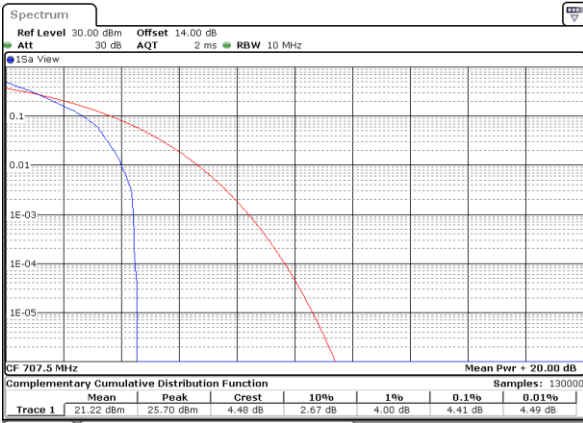
Date: 18_JUL_2022 22:13:20

Lowest Channel / Full RB



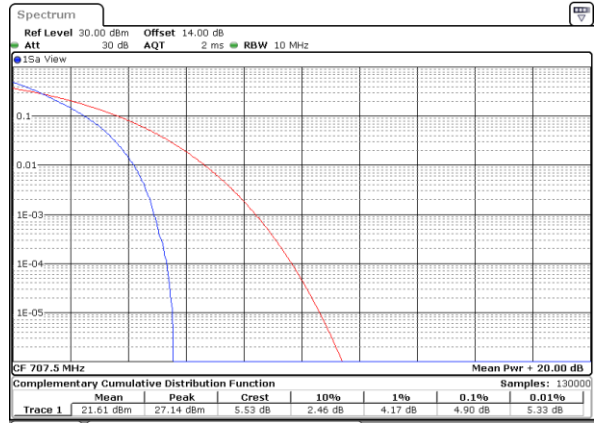
Date: 18_JUL_2022 22:12:55

Middle Channel / 1RB



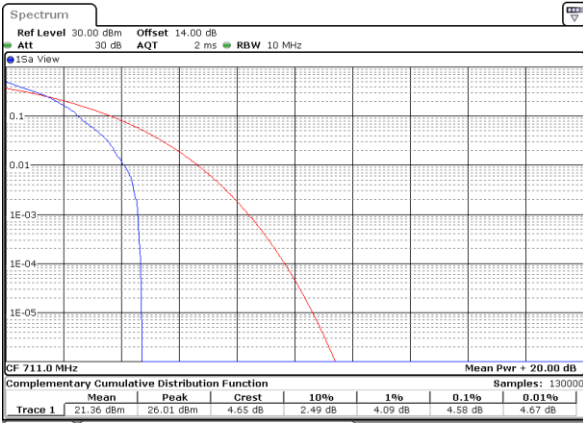
Date: 18_JUL_2022 22:13:46

Middle Channel / Full RB



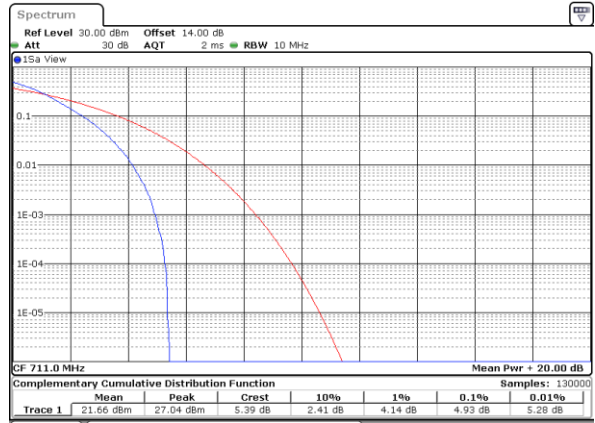
Date: 18_JUL_2022 22:14:11

Highest Channel / 1RB



Date: 18_JUL_2022 22:15:02

Highest Channel / Full RB

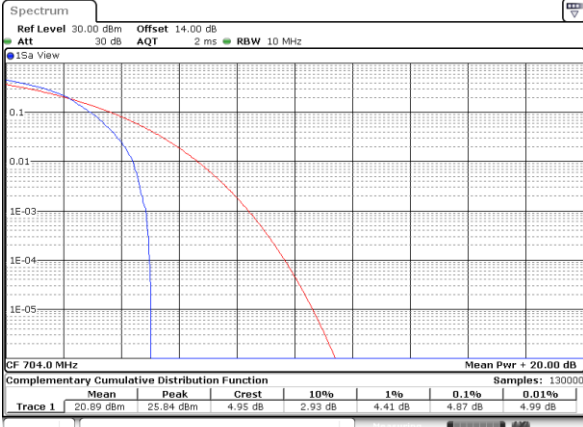


Date: 18_JUL_2022 22:14:36



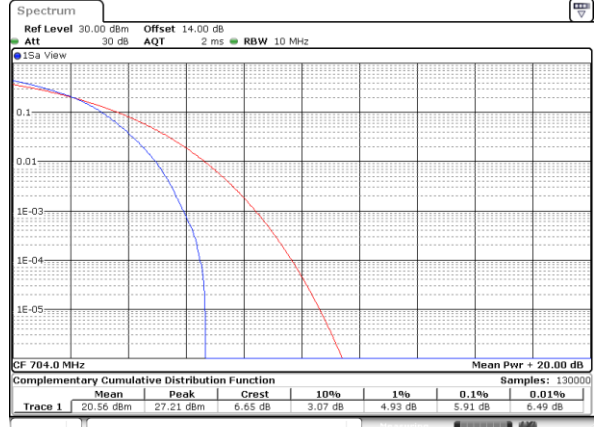
LTE Band 12 / 10MHz / 16QAM

Lowest Channel / 1RB



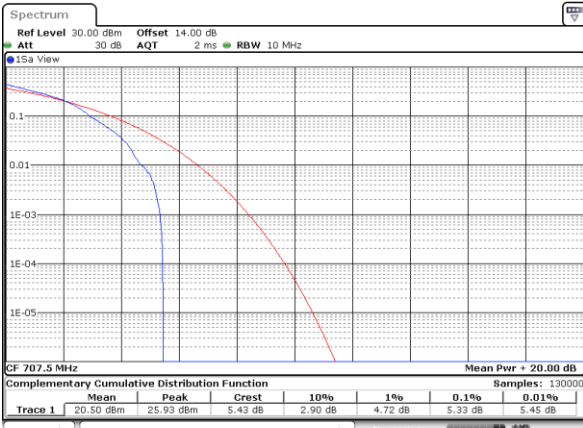
Date: 18_JUL_2022 22:10:47

Lowest Channel / Full RB



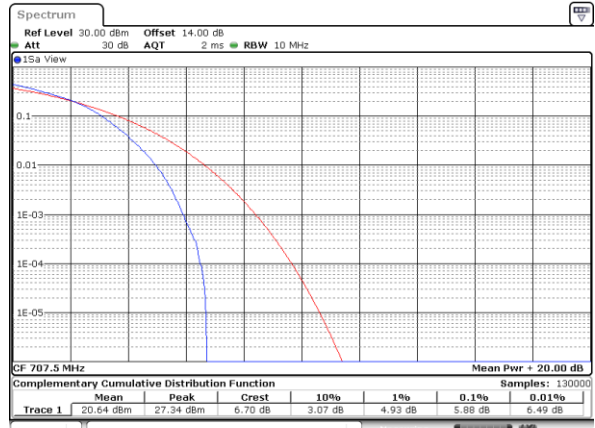
Date: 18_JUL_2022 22:10:22

Middle Channel / 1RB



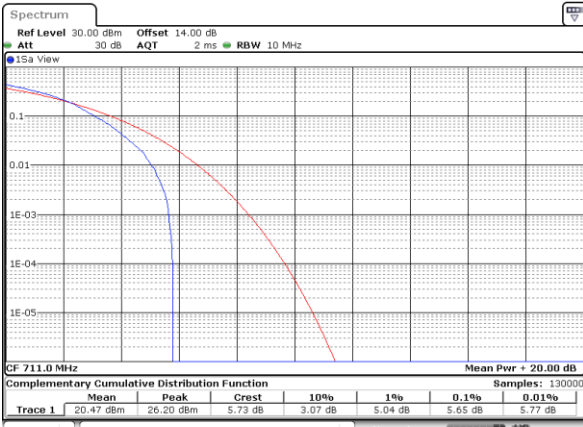
Date: 18_JUL_2022 22:11:13

Middle Channel / Full RB



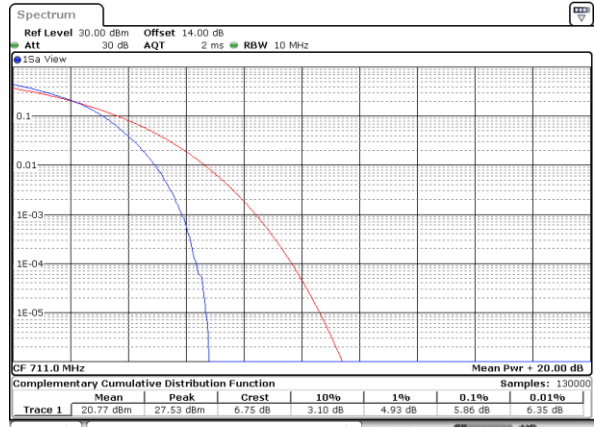
Date: 18_JUL_2022 22:11:38

Highest Channel / 1RB



Date: 18_JUL_2022 22:12:29

Highest Channel / Full RB

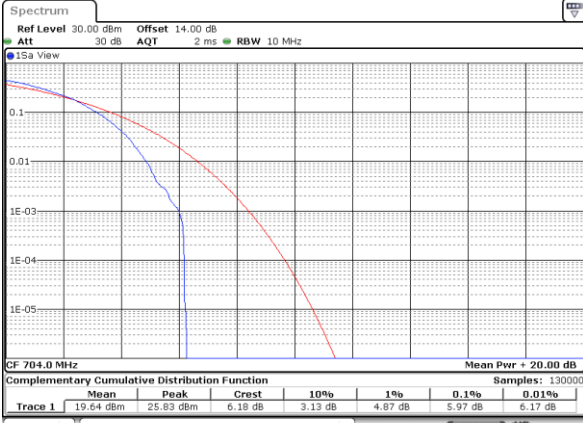


Date: 18_JUL_2022 22:12:03



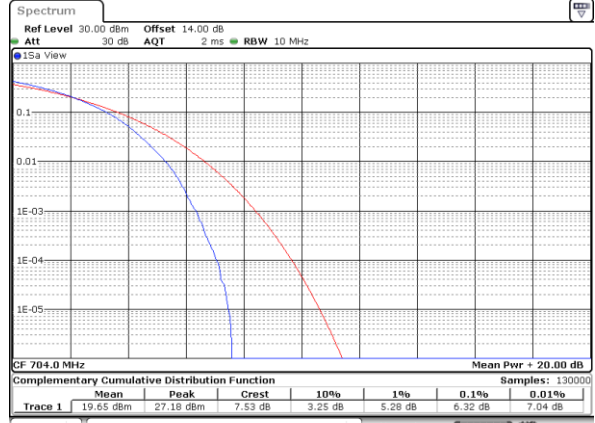
LTE Band 12 / 10MHz / 64QAM

Lowest Channel / 1RB



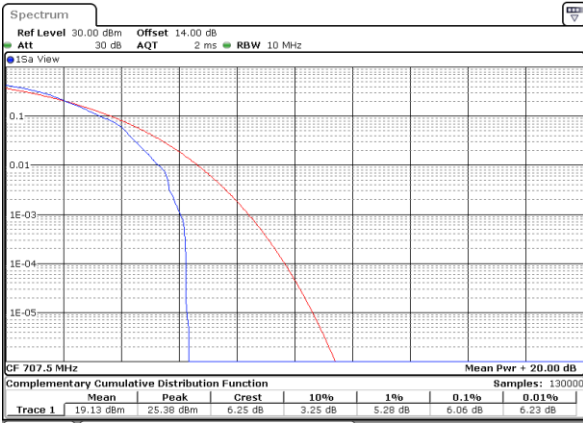
Date: 18_JUL_2022 22:08:13

Lowest Channel / Full RB



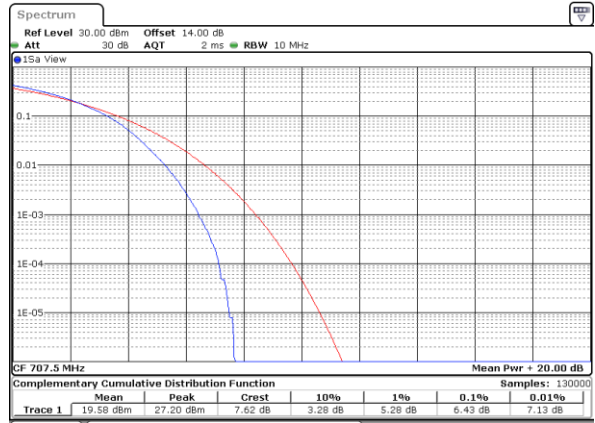
Date: 18_JUL_2022 22:07:47

Middle Channel / 1RB



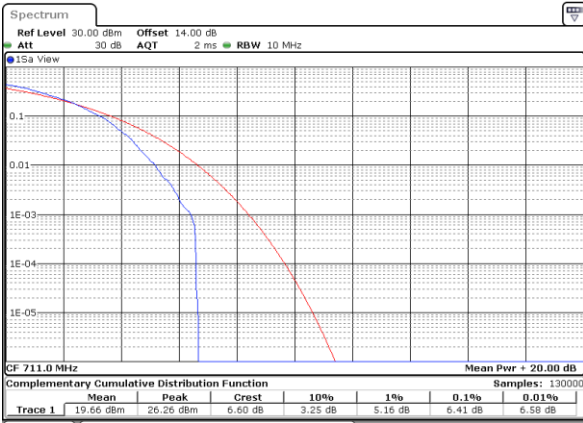
Date: 18_JUL_2022 22:08:08

Middle Channel / Full RB



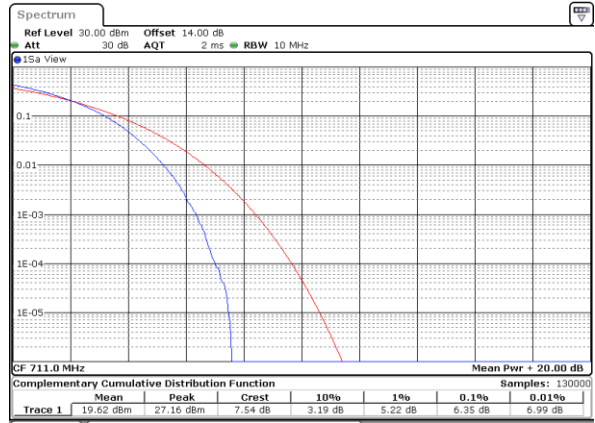
Date: 18_JUL_2022 22:07:04

Highest Channel / 1RB



Date: 18_JUL_2022 22:09:56

Highest Channel / Full RB



Date: 18_JUL_2022 22:09:29



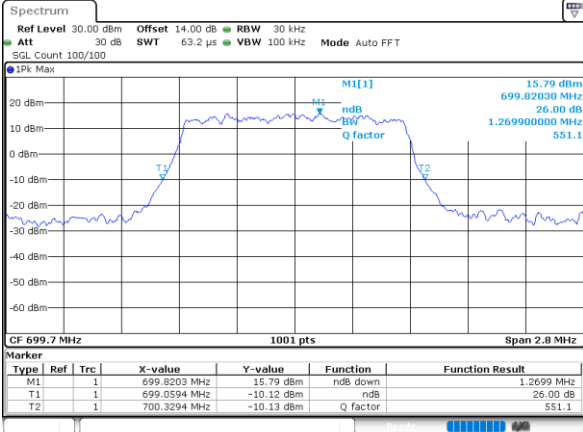
26dB Bandwidth

Mode	LTE Band 12 : 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	1.27	1.27	3.03	3.00	4.91	4.80	9.77	9.69	-	-	-	-
Middle CH	1.28	1.26	2.99	3.00	4.94	4.90	9.93	10.03	-	-	-	-
Highest CH	1.27	1.28	3.01	3.06	4.89	5.00	9.71	9.85	-	-	-	-
Mode	LTE Band 12 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.26	-	2.99	-	4.94	-	10.05	-	-	-	-	-
Middle CH	1.31	-	2.99	-	4.94	-	9.69	-	-	-	-	-
Highest CH	1.29	-	2.98	-	5.02	-	9.97	-	-	-	-	-



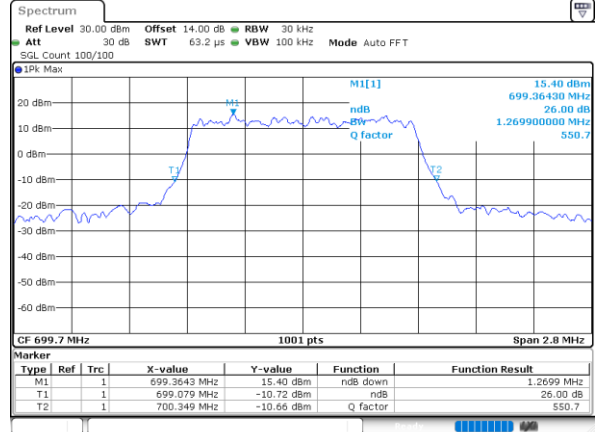
LTE Band 12

Lowest Channel / 1.4MHz / QPSK



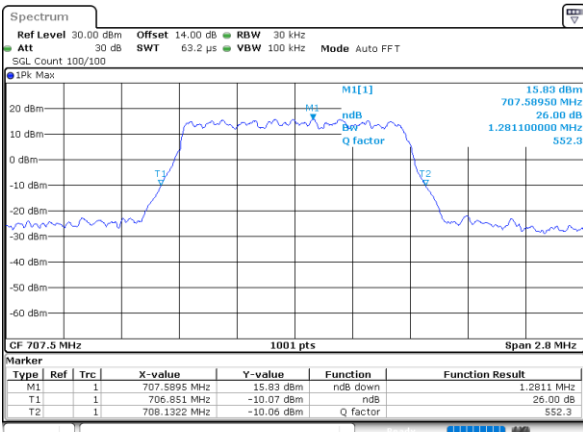
Date: 18_JUL_2022 21:37:10

Lowest Channel / 1.4MHz / 16QAM



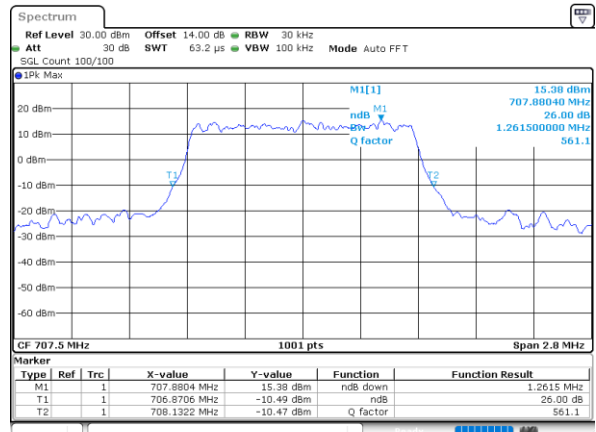
Date: 18_JUL_2022 21:36:46

Middle Channel / 1.4MHz / QPSK



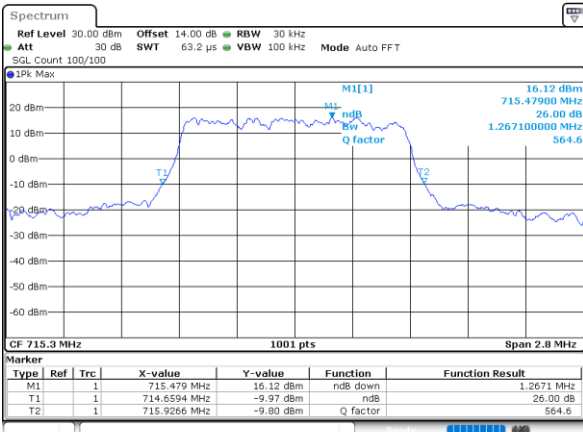
Date: 18_JUL_2022 21:45:40

Middle Channel / 1.4MHz / 16QAM



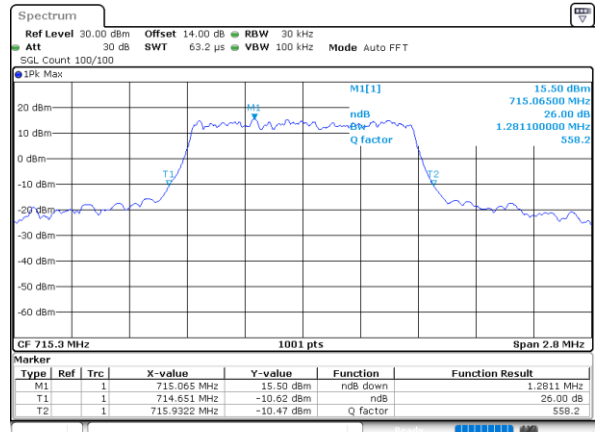
Date: 18_JUL_2022 21:46:03

Highest Channel / 1.4MHz / QPSK



Date: 18_JUL_2022 21:49:05

Highest Channel / 1.4MHz / 16QAM

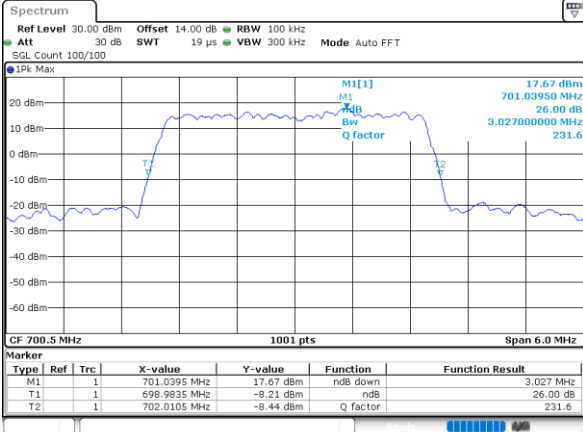


Date: 18_JUL_2022 21:48:41



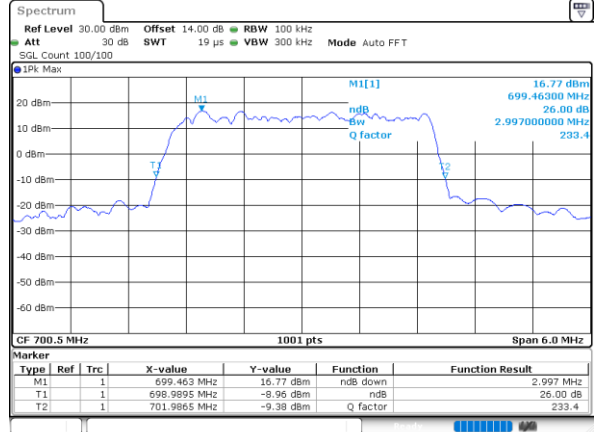
LTE Band 12

Lowest Channel / 3MHz / QPSK



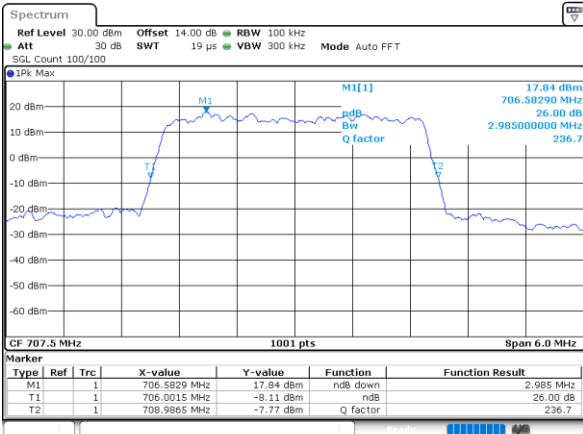
Date: 18_JUL_2022 18:20:04

Lowest Channel / 3MHz / 16QAM



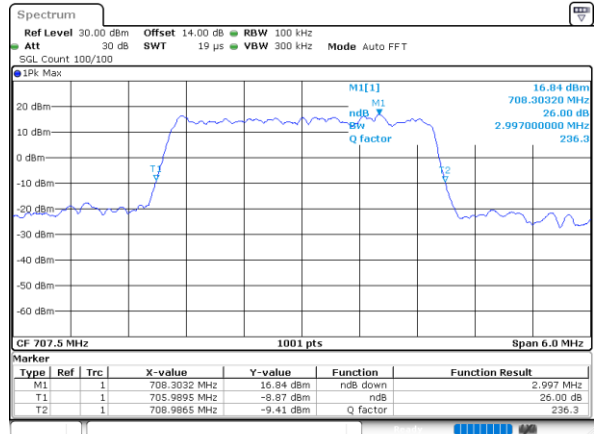
Date: 18_JUL_2022 18:19:40

Middle Channel / 3MHz / QPSK



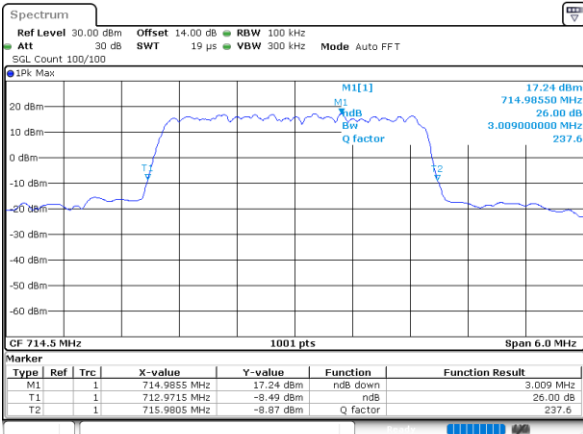
Date: 18_JUL_2022 18:28:03

Middle Channel / 3MHz / 16QAM



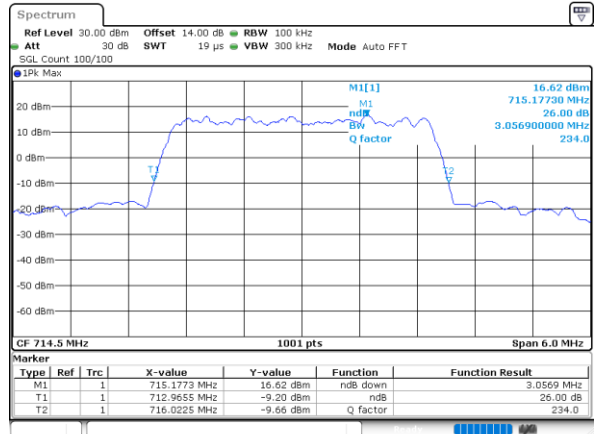
Date: 18_JUL_2022 18:28:57

Highest Channel / 3MHz / QPSK



Date: 18_JUL_2022 18:31:58

Highest Channel / 3MHz / 16QAM

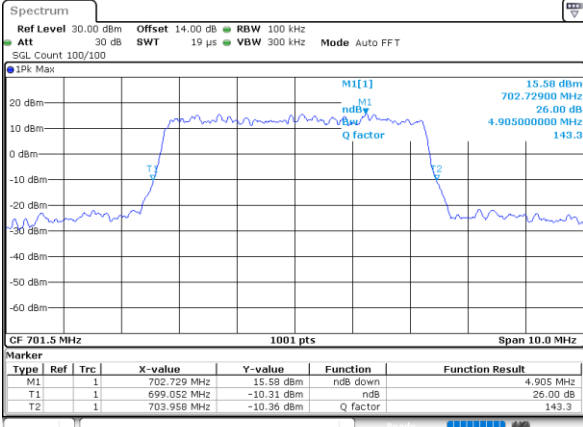


Date: 18_JUL_2022 18:31:34



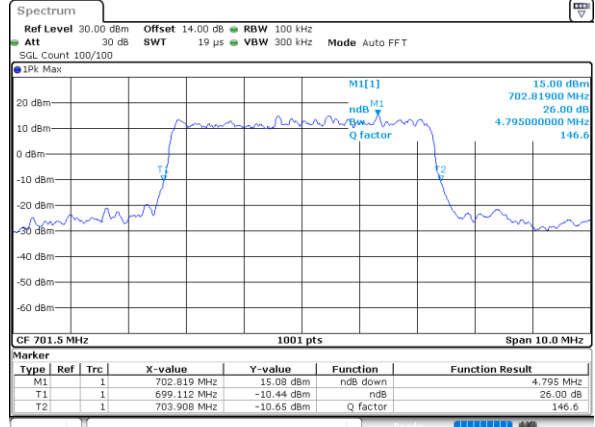
LTE Band 12

Lowest Channel / 5MHz / QPSK



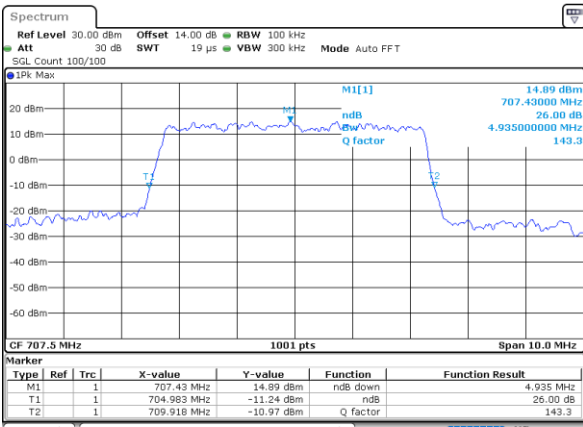
Date: 18_JUL_2022 19:01:04

Lowest Channel / 5MHz / 16QAM



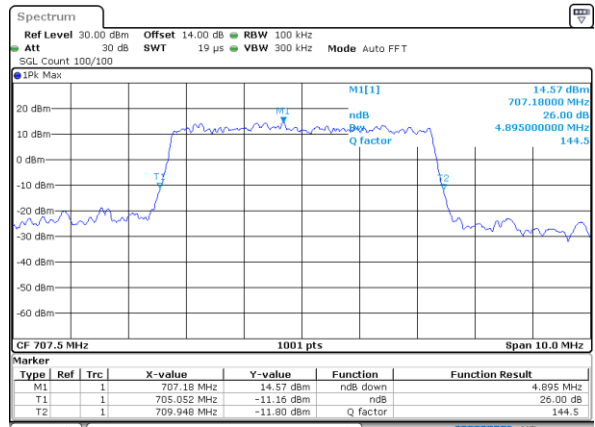
Date: 18_JUL_2022 19:00:40

Middle Channel / 5MHz / QPSK



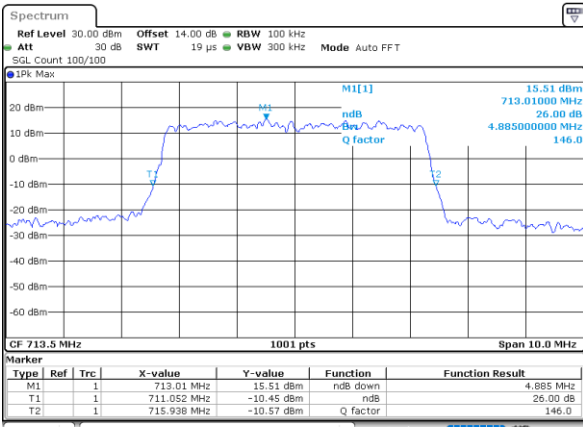
Date: 18_JUL_2022 19:09:05

Middle Channel / 5MHz / 16QAM



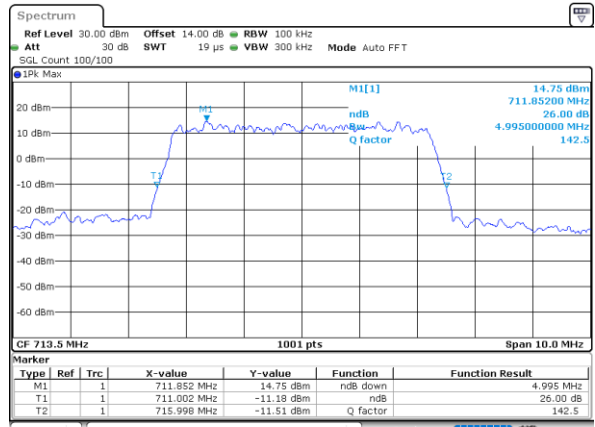
Date: 18_JUL_2022 19:09:59

Highest Channel / 5MHz / QPSK



Date: 18_JUL_2022 19:13:00

Highest Channel / 5MHz / 16QAM

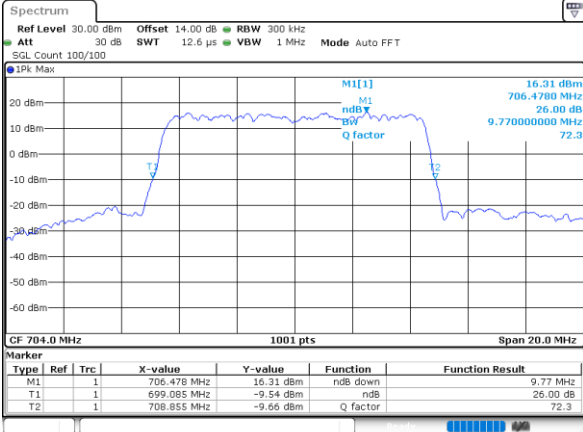


Date: 18_JUL_2022 19:12:36



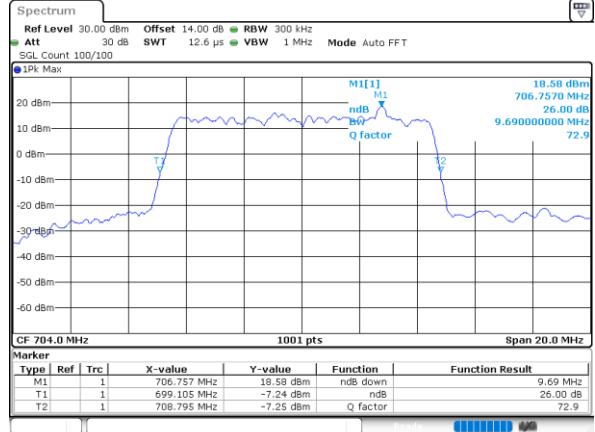
LTE Band 12

Lowest Channel / 10MHz / QPSK



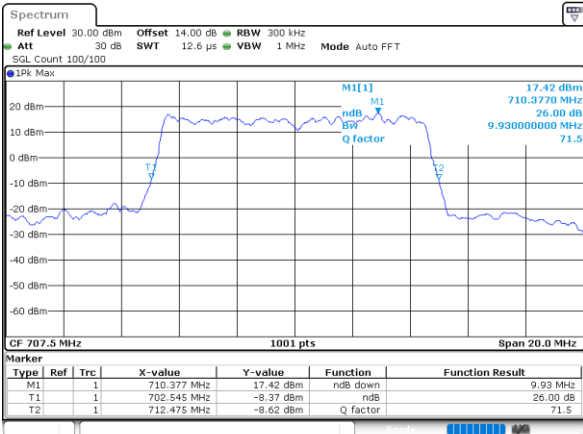
Date: 18_JUL_2022 19:22:04

Lowest Channel / 10MHz / 16QAM



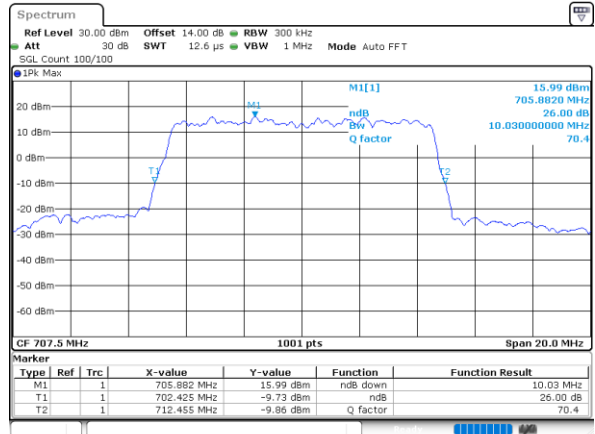
Date: 18_JUL_2022 19:22:140

Middle Channel / 10MHz / QPSK



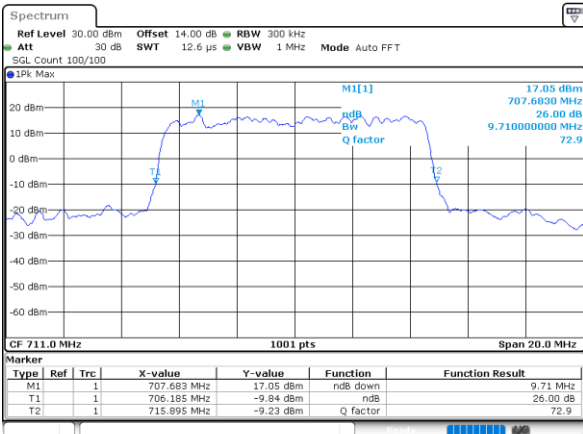
Date: 18_JUL_2022 19:30:04

Middle Channel / 10MHz / 16QAM



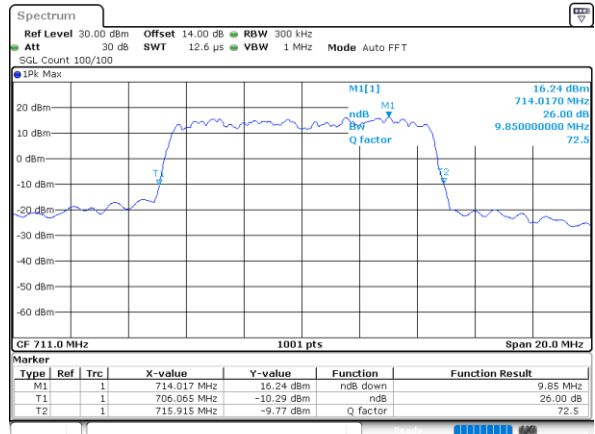
Date: 18_JUL_2022 19:30:157

Highest Channel / 10MHz / QPSK



Date: 18_JUL_2022 19:35:30

Highest Channel / 10MHz / 16QAM

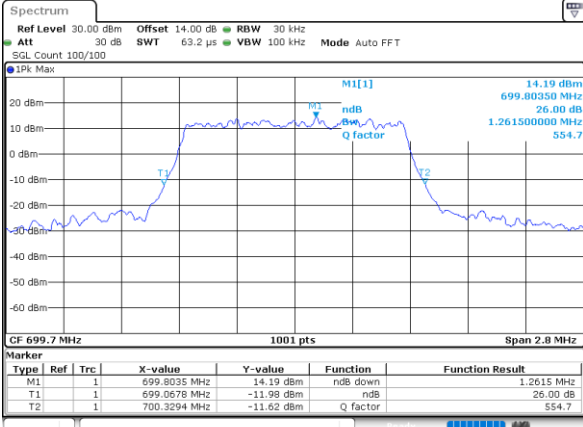


Date: 18_JUL_2022 19:35:05



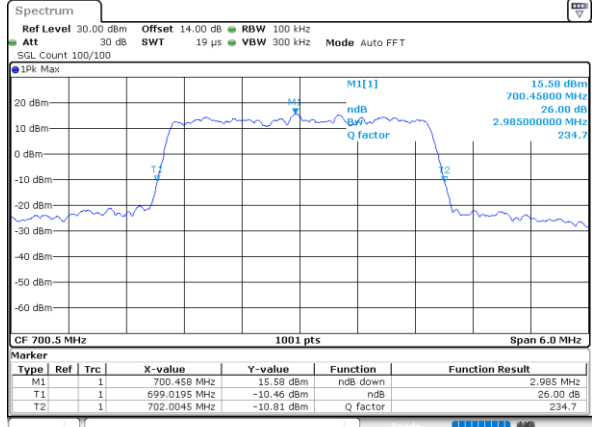
LTE Band 12

Lowest Channel / 1.4MHz / 64QAM



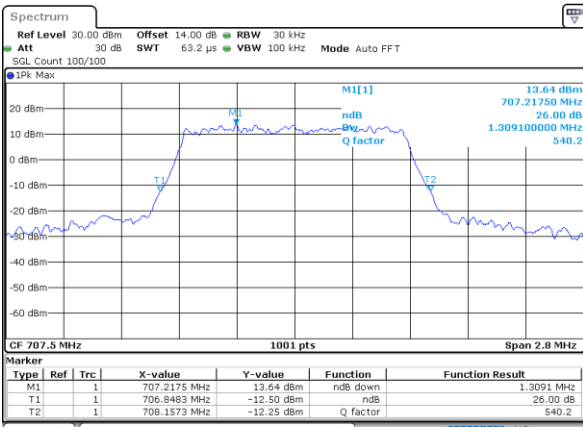
Date: 18_JUL_2022 21:57:50

Lowest Channel / 3MHz / 64QAM



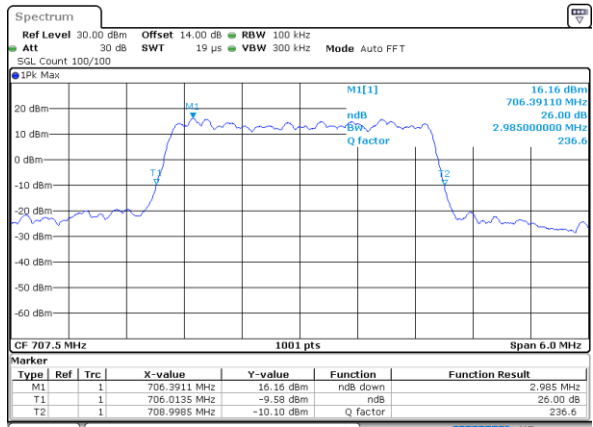
Date: 18_JUL_2022 18:40:14

Middle Channel / 1.4MHz / 64QAM



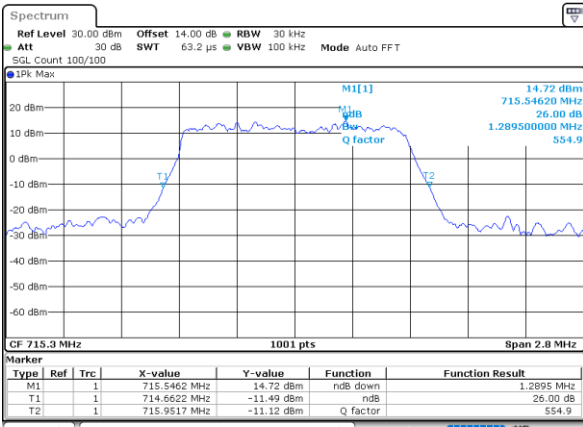
Date: 18_JUL_2022 22:02:12

Middle Channel / 3MHz / 64QAM



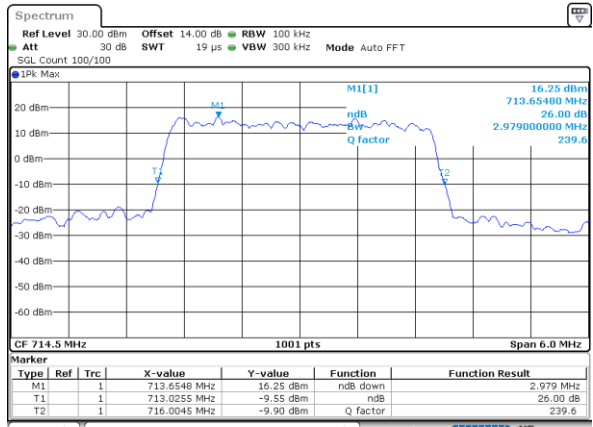
Date: 18_JUL_2022 18:44:26

Highest Channel / 1.4MHz / 64QAM



Date: 18_JUL_2022 22:03:30

Highest Channel / 3MHz / 64QAM

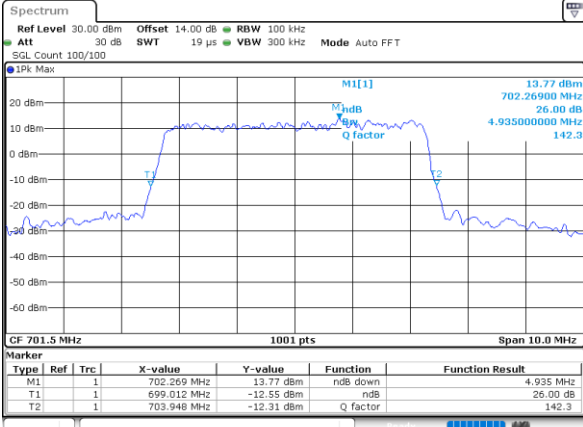


Date: 18_JUL_2022 18:45:52



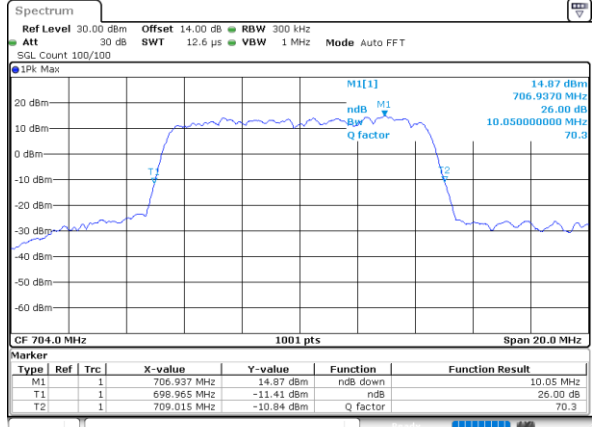
LTE Band 12

Lowest Channel / 5MHz / 64QAM



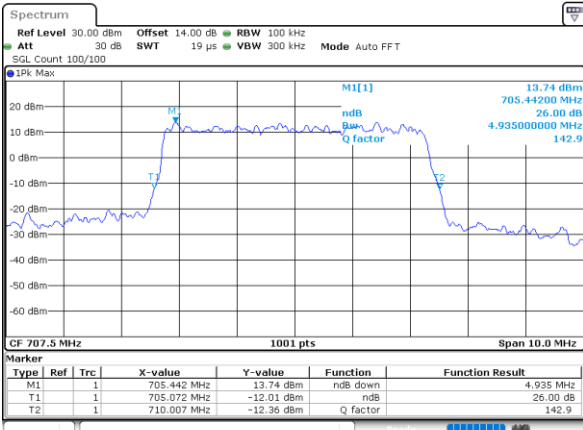
Date: 18_JUL_2022 18:50:15

Lowest Channel / 10MHz / 64QAM



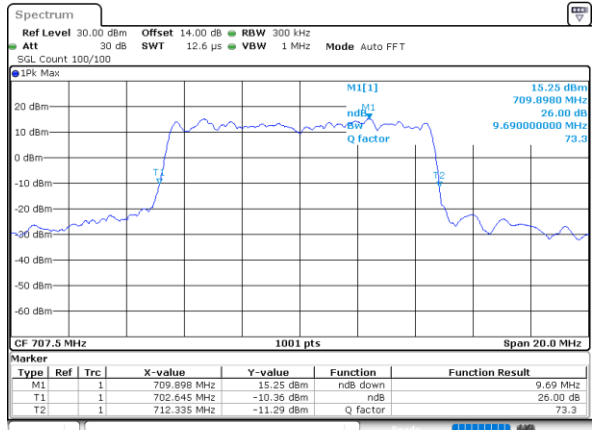
Date: 18_JUL_2022 19:43:46

Middle Channel / 5MHz / 64QAM



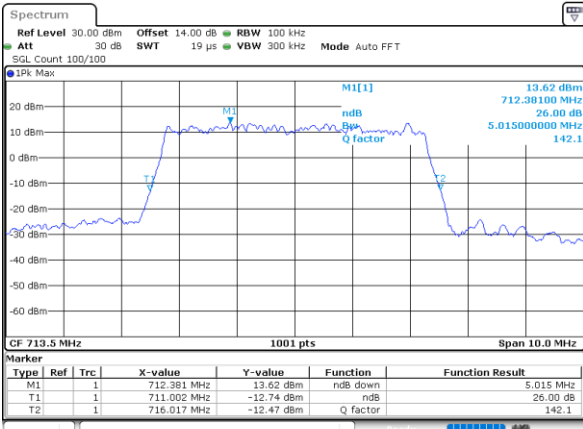
Date: 18_JUL_2022 18:54:28

Middle Channel / 10MHz / 64QAM



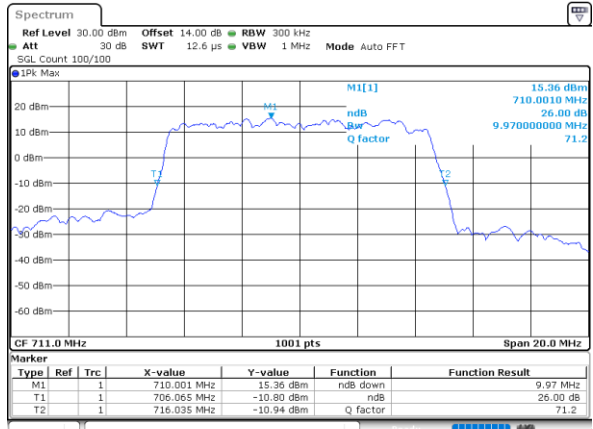
Date: 18_JUL_2022 19:47:58

Highest Channel / 5MHz / 64QAM



Date: 18_JUL_2022 18:55:53

Highest Channel / 10MHz / 64QAM



Date: 18_JUL_2022 19:50:08



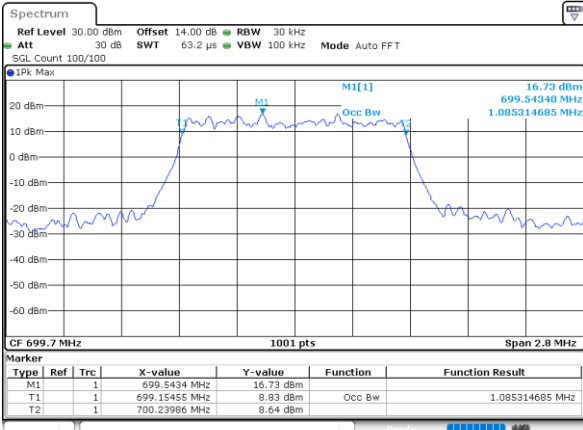
Occupied Bandwidth

Mode	LTE Band 12 : 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	1.09	1.09	2.72	2.72	4.49	4.48	9.07	9.01	-	-	-	-
Middle CH	1.09	1.10	2.71	2.72	4.49	4.49	9.05	9.05	-	-	-	-
Highest CH	1.10	1.09	2.74	2.73	4.49	4.49	9.03	9.03	-	-	-	-
Mode	LTE Band 12 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.09	-	2.71	-	4.48	-	9.01	-	-	-	-	-
Middle CH	1.08	-	2.73	-	4.52	-	8.99	-	-	-	-	-
Highest CH	1.10	-	2.73	-	4.50	-	9.01	-	-	-	-	-



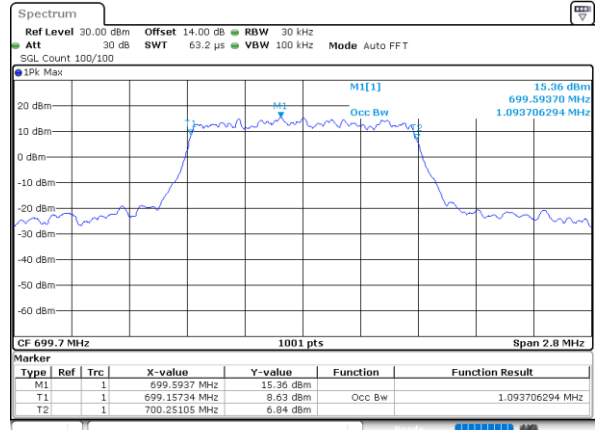
LTE Band 12

Lowest Channel / 1.4MHz / QPSK



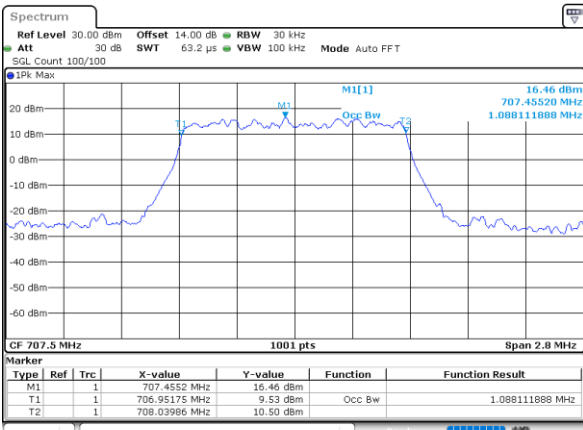
Date: 18_JUL_2022 20:00:17

Lowest Channel / 1.4MHz / 16QAM



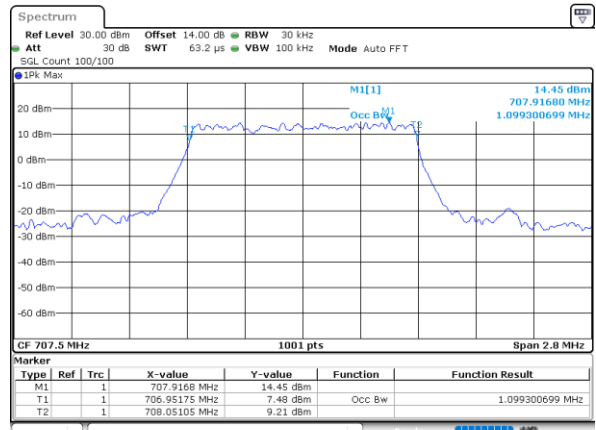
Date: 18_JUL_2022 20:00:41

Middle Channel / 1.4MHz / QPSK



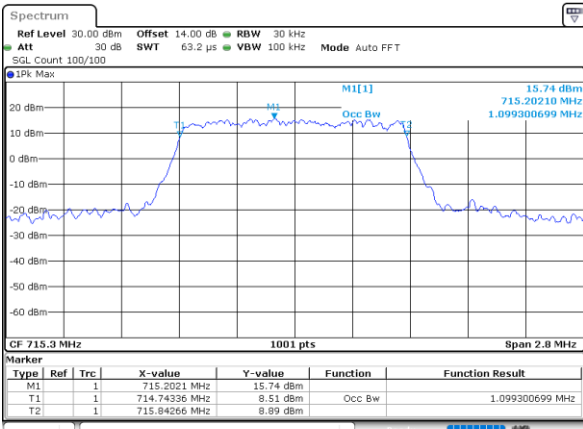
Date: 18_JUL_2022 21:45:25

Middle Channel / 1.4MHz / 16QAM



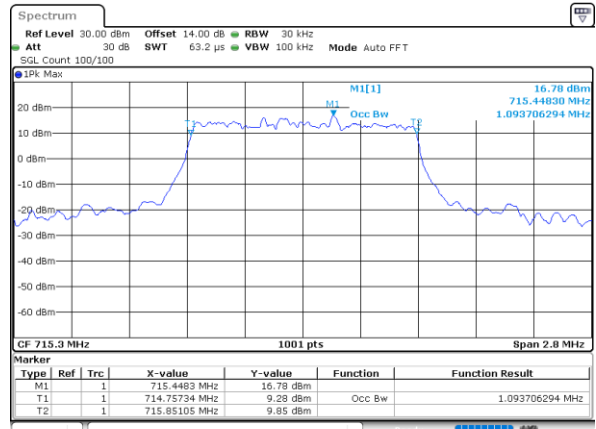
Date: 18_JUL_2022 21:45:02

Highest Channel / 1.4MHz / QPSK



Date: 18_JUL_2022 21:48:02

Highest Channel / 1.4MHz / 16QAM

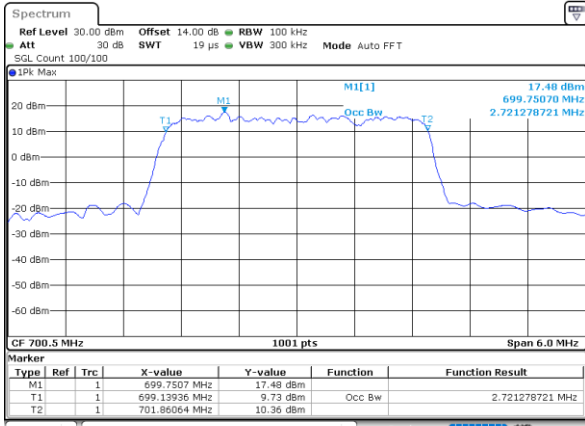


Date: 18_JUL_2022 21:48:26



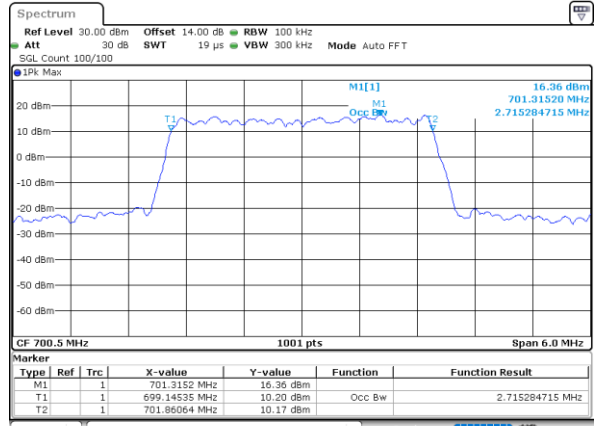
LTE Band 12

Lowest Channel / 3MHz / QPSK



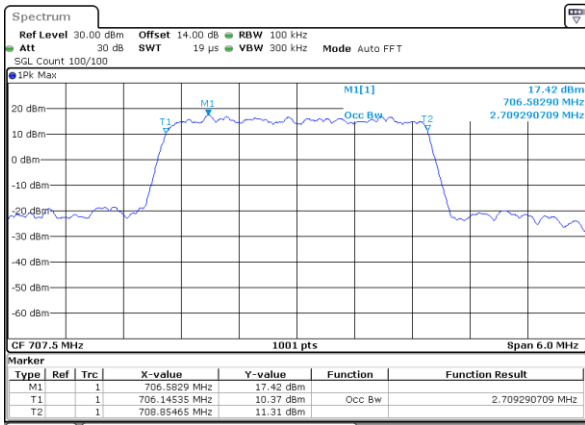
Date: 18_JUL_2022 18:19:01

Lowest Channel / 3MHz / 16QAM



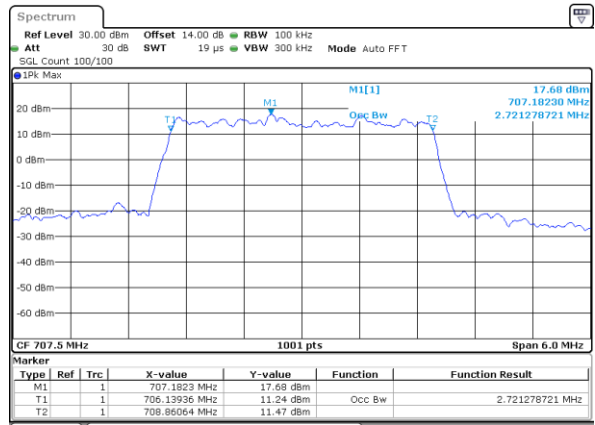
Date: 18_JUL_2022 18:19:25

Middle Channel / 3MHz / QPSK



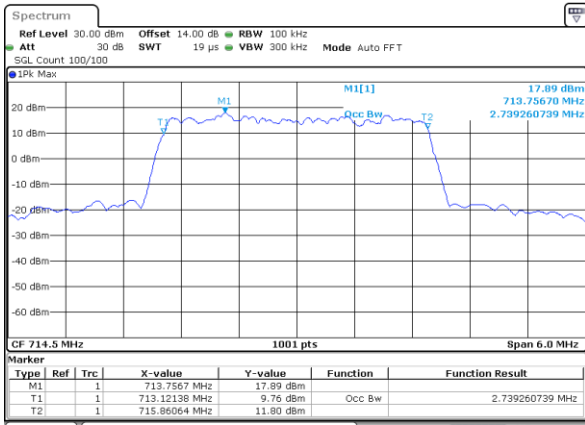
Date: 18_JUL_2022 18:28:19

Middle Channel / 3MHz / 16QAM



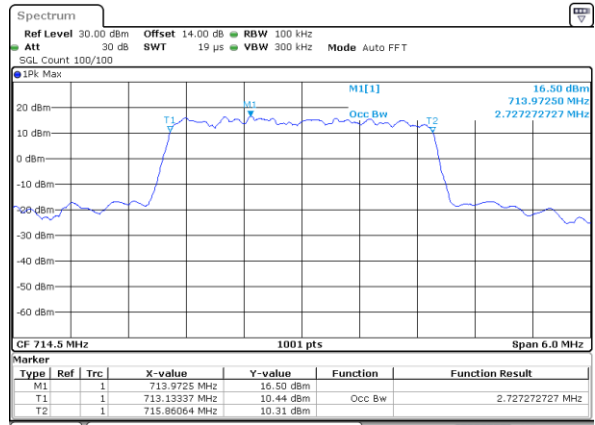
Date: 18_JUL_2022 18:27:55

Highest Channel / 3MHz / QPSK



Date: 18_JUL_2022 18:30:56

Highest Channel / 3MHz / 16QAM

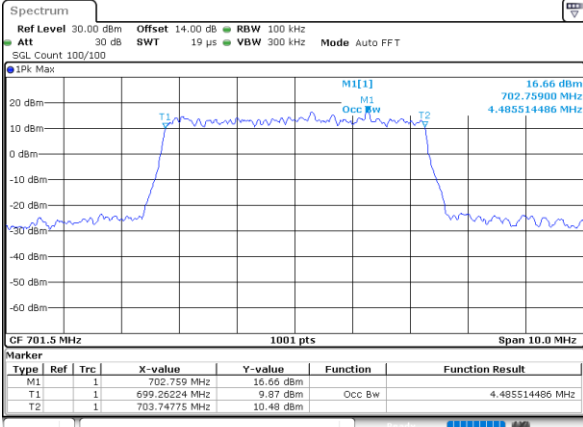


Date: 18_JUL_2022 18:31:20



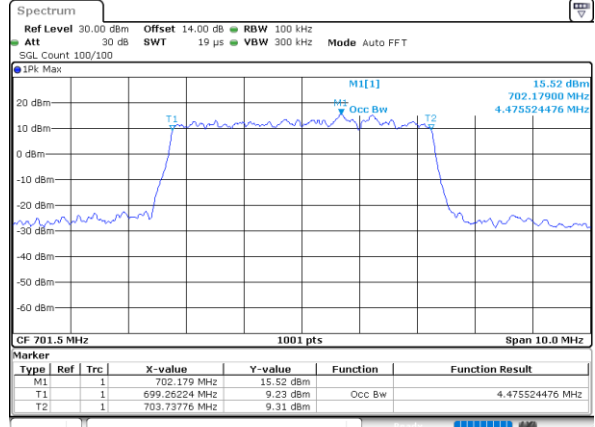
LTE Band 12

Lowest Channel / 5MHz / QPSK



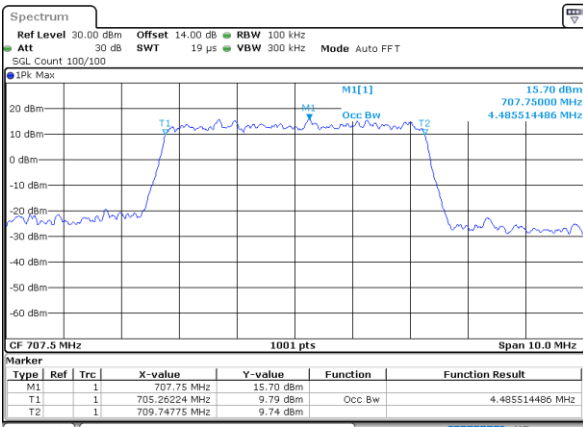
Date: 18_JUL_2022 19:00:02

Lowest Channel / 5MHz / 16QAM



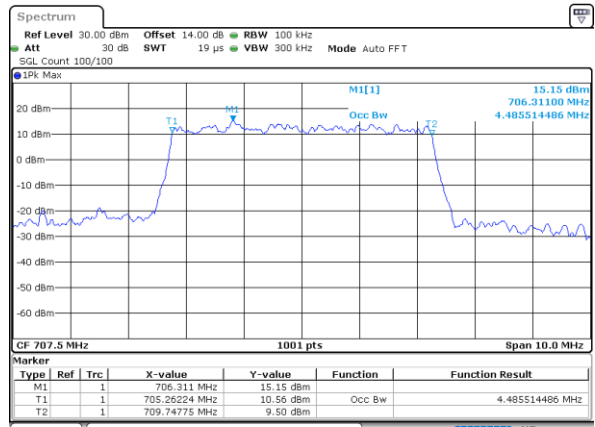
Date: 18_JUL_2022 19:00:26

Middle Channel / 5MHz / QPSK



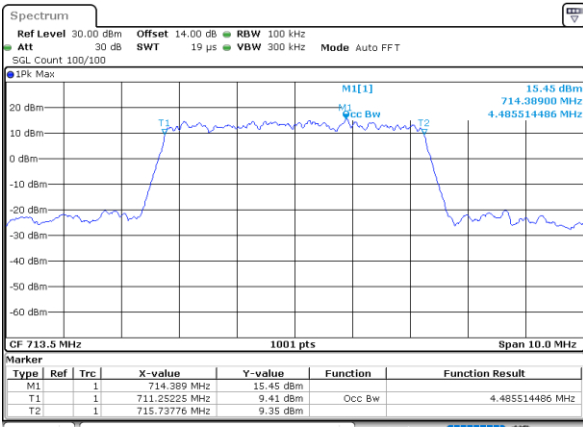
Date: 18_JUL_2022 19:09:21

Middle Channel / 5MHz / 16QAM



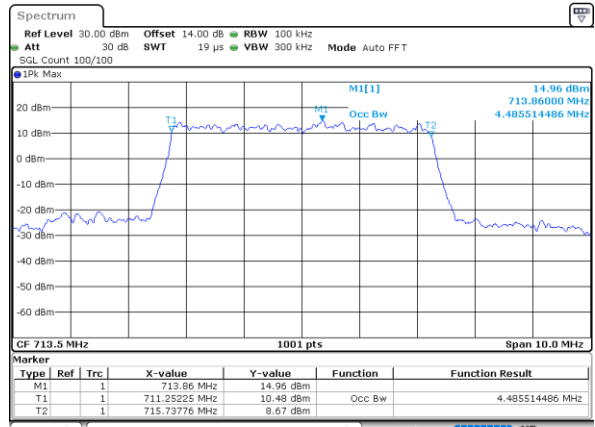
Date: 18_JUL_2022 19:08:57

Highest Channel / 5MHz / QPSK



Date: 18_JUL_2022 19:11:57

Highest Channel / 5MHz / 16QAM

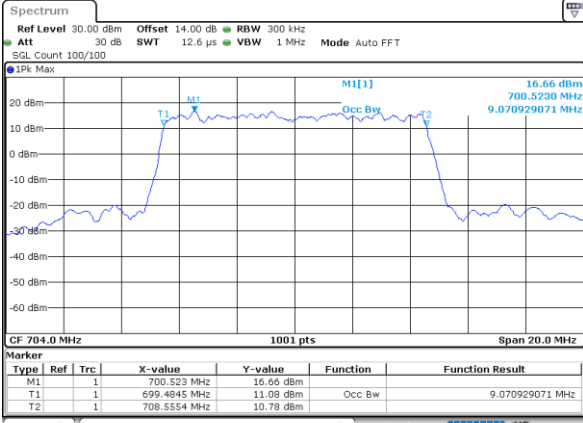


Date: 18_JUL_2022 19:12:21



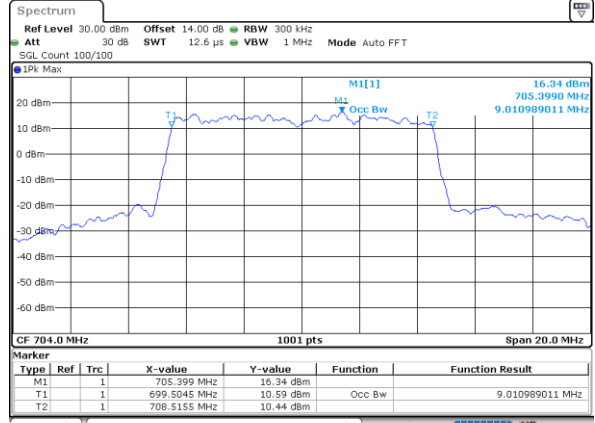
LTE Band 12

Lowest Channel / 10MHz / QPSK



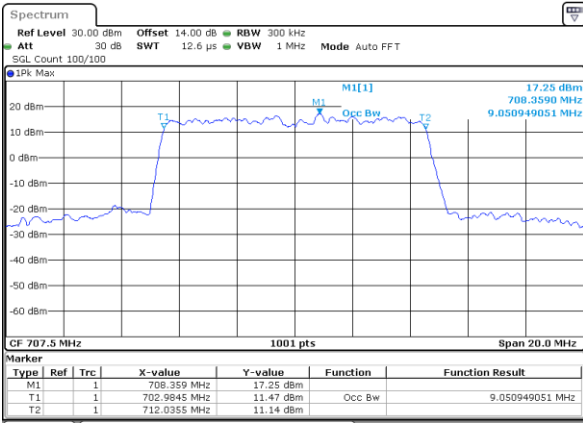
Date: 18_JUL_2022 19:21:01

Lowest Channel / 10MHz / 16QAM



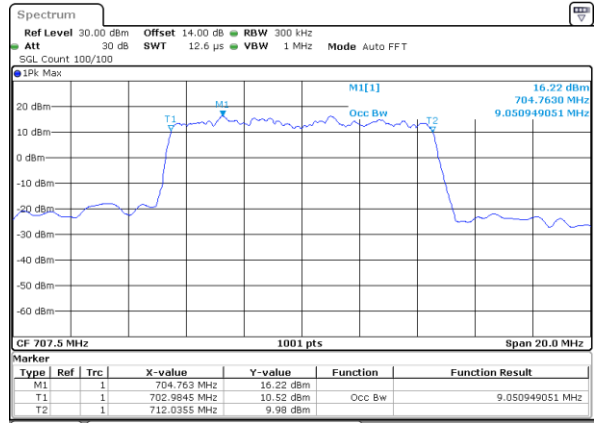
Date: 18_JUL_2022 19:21:25

Middle Channel / 10MHz / QPSK



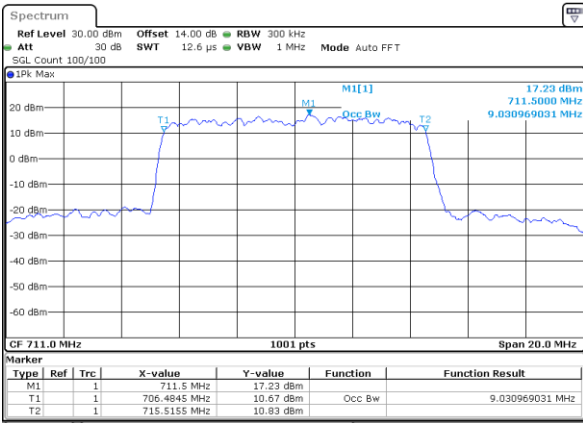
Date: 18_JUL_2022 19:30:19

Middle Channel / 10MHz / 16QAM



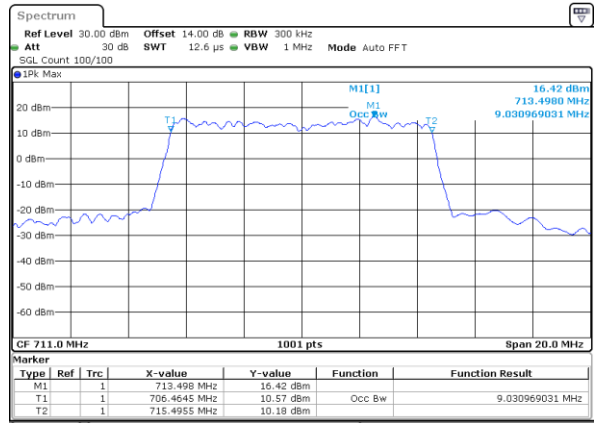
Date: 18_JUL_2022 19:32:56

Highest Channel / 10MHz / QPSK



Date: 18_JUL_2022 19:32:56

Highest Channel / 10MHz / 16QAM

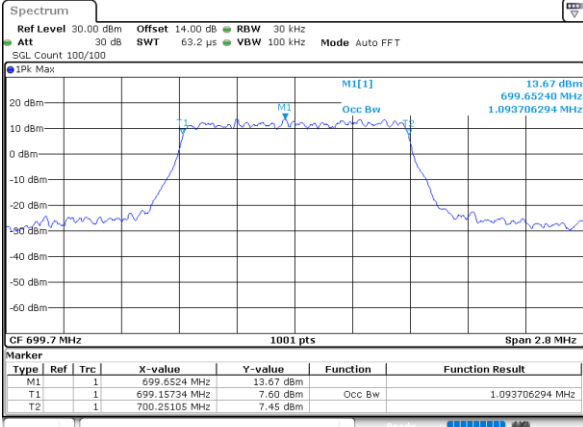


Date: 18_JUL_2022 19:34:51



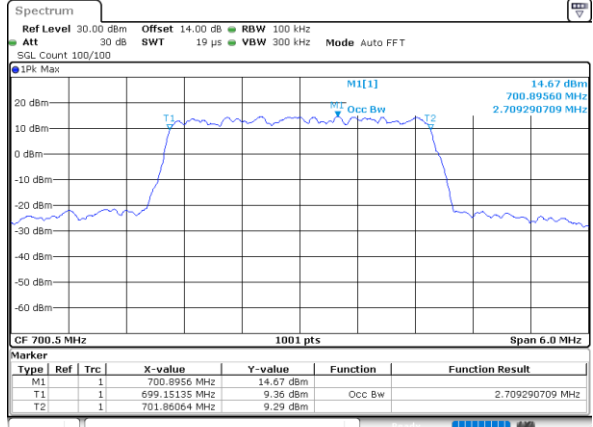
LTE Band 12

Lowest Channel / 1.4MHz / 64QAM



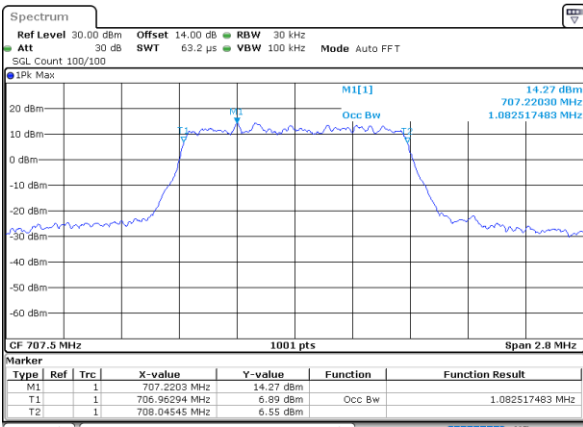
Date: 18_JUL_2022 21:57:43

Lowest Channel / 3MHz / 64QAM



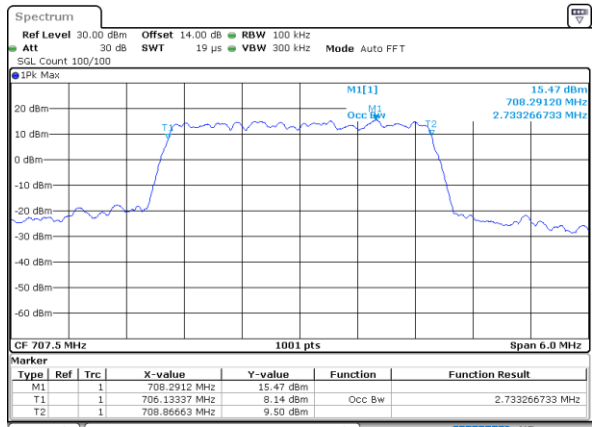
Date: 18_JUL_2022 18:39:59

Middle Channel / 1.4MHz / 64QAM



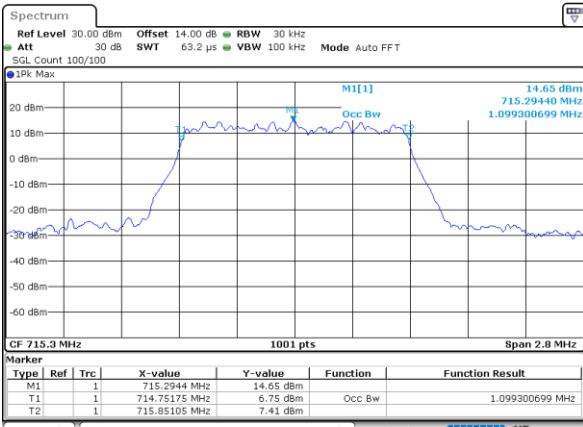
Date: 18_JUL_2022 22:01:57

Middle Channel / 3MHz / 64QAM



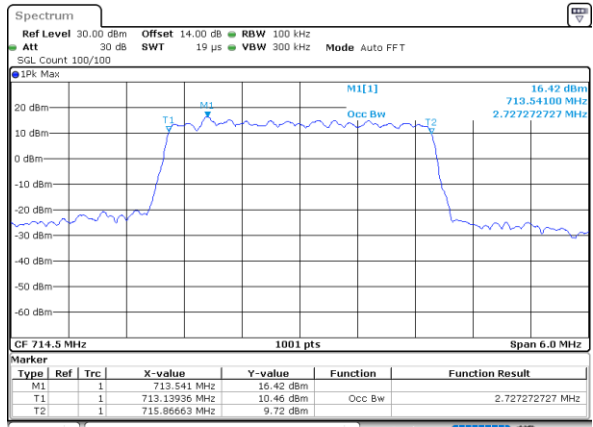
Date: 18_JUL_2022 18:44:12

Highest Channel / 1.4MHz / 64QAM



Date: 18_JUL_2022 22:03:23

Highest Channel / 3MHz / 64QAM

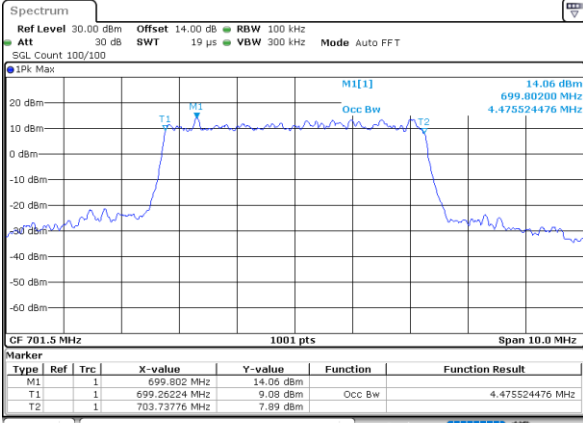


Date: 18_JUL_2022 18:45:37



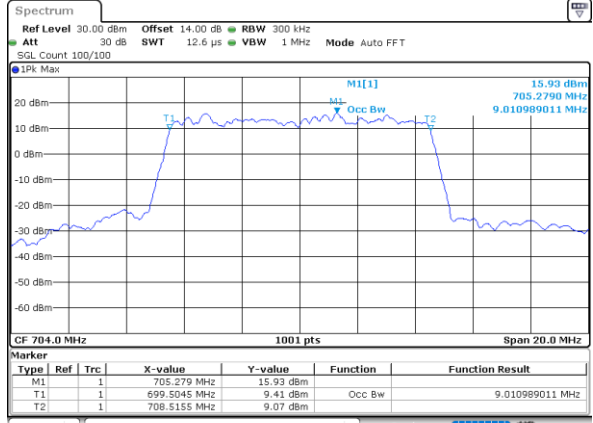
LTE Band 12

Lowest Channel / 5MHz / 64QAM



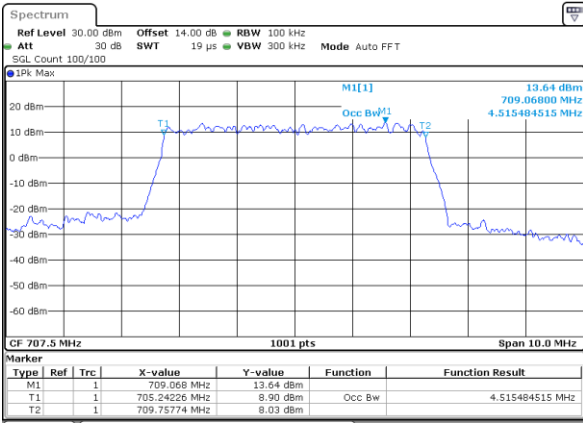
Date: 18_JUL_2022 18:50:00

Lowest Channel / 10MHz / 64QAM



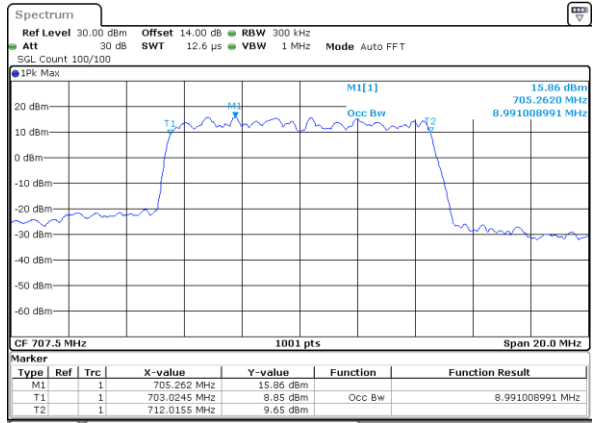
Date: 18_JUL_2022 19:43:31

Middle Channel / 5MHz / 64QAM



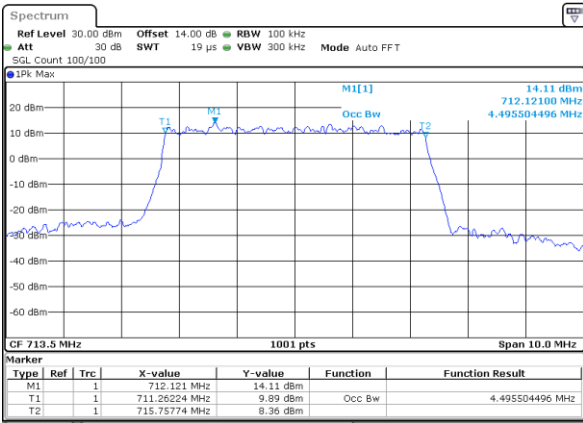
Date: 18_JUL_2022 18:54:13

Middle Channel / 10MHz / 64QAM



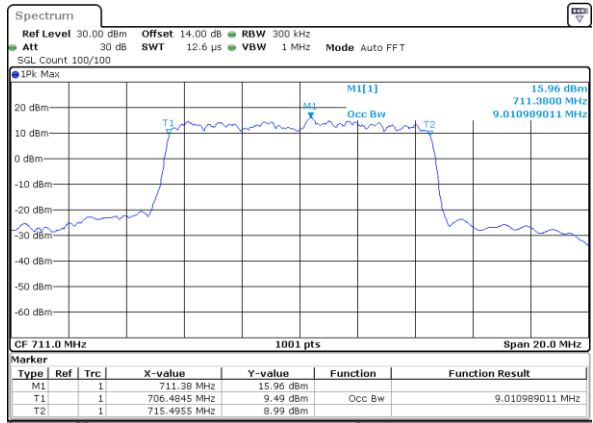
Date: 18_JUL_2022 19:47:44

Highest Channel / 5MHz / 64QAM



Date: 18_JUL_2022 18:55:39

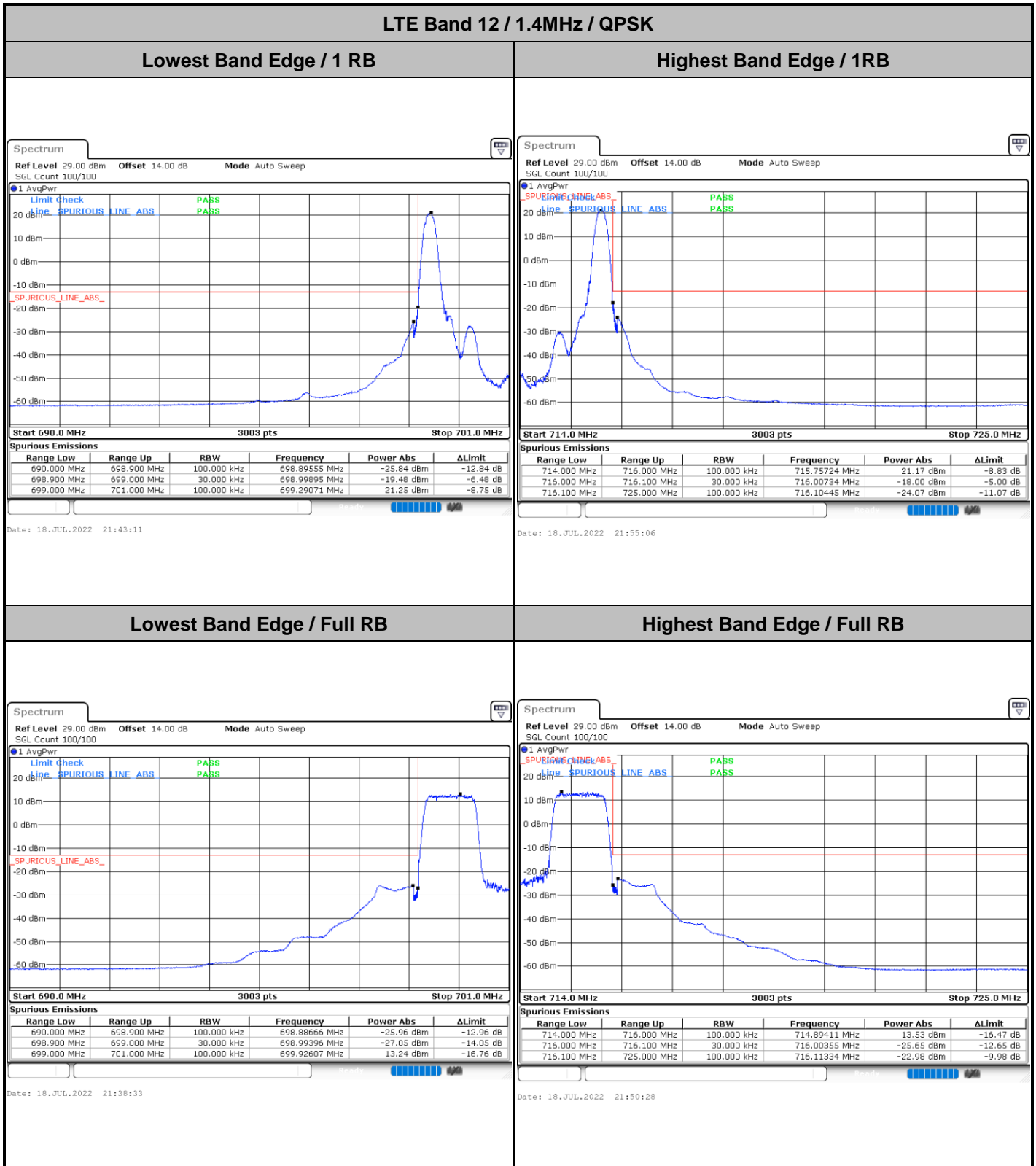
Highest Channel / 10MHz / 64QAM



Date: 18_JUL_2022 19:49:53



Conducted Band Edge

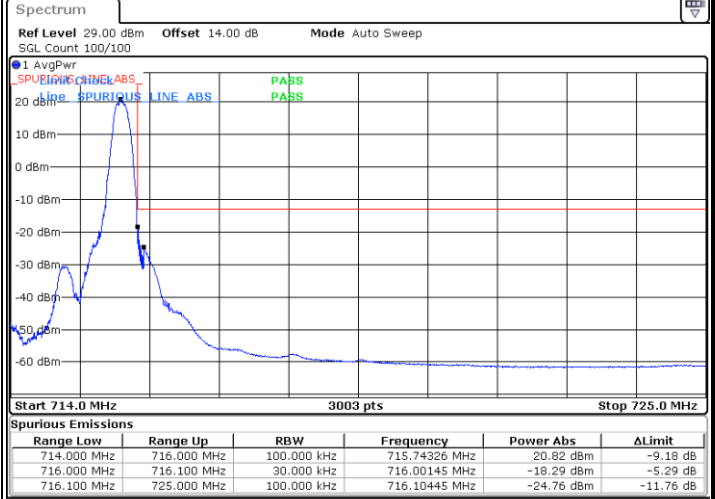




LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

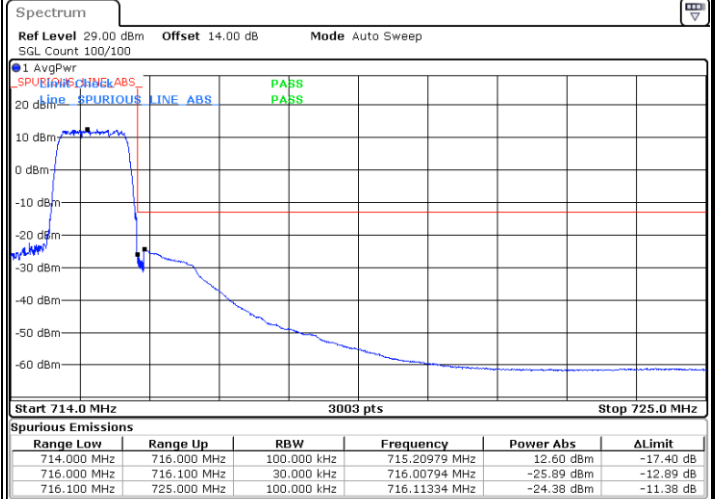
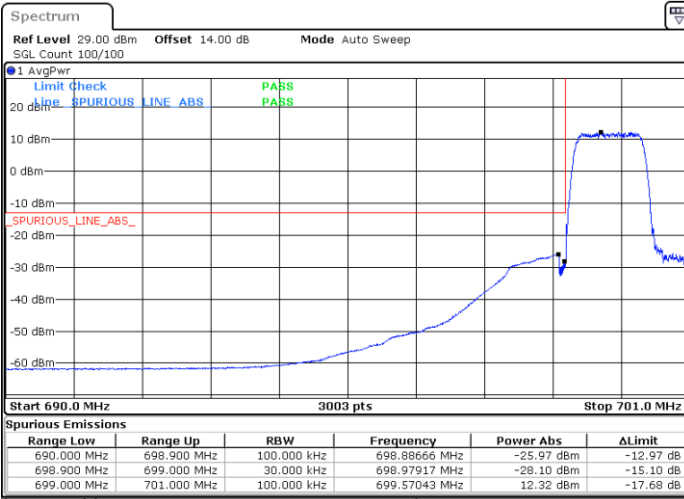


Date: 18.JUL.2022 21:41:38

Date: 18.JUL.2022 21:53:33

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 18.JUL.2022 21:40:06

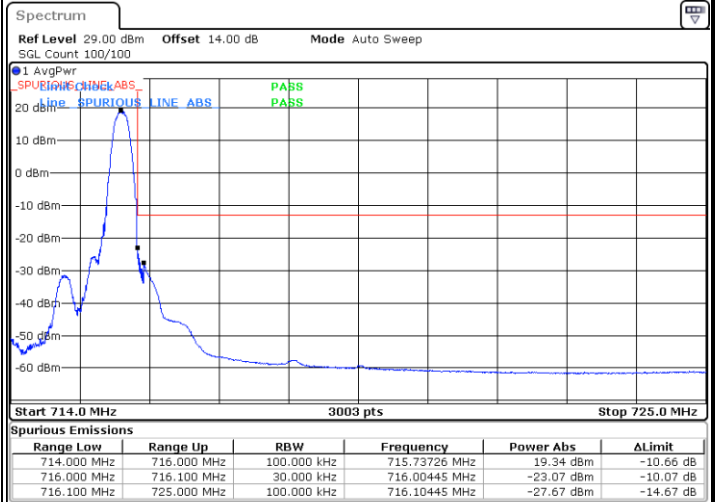
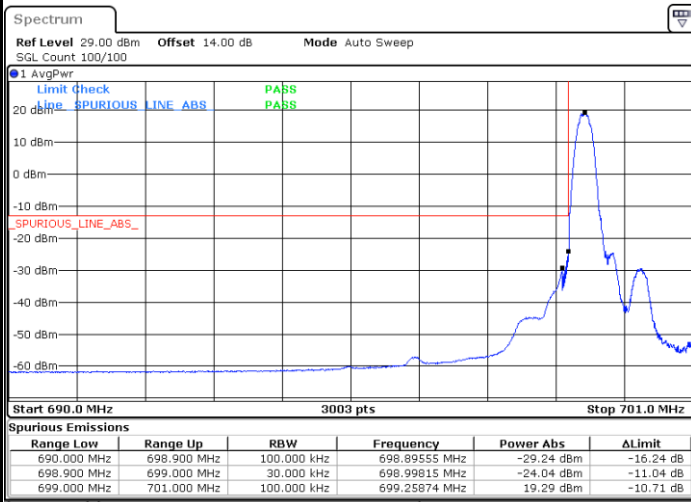
Date: 18.JUL.2022 21:52:00



LTE Band 12 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

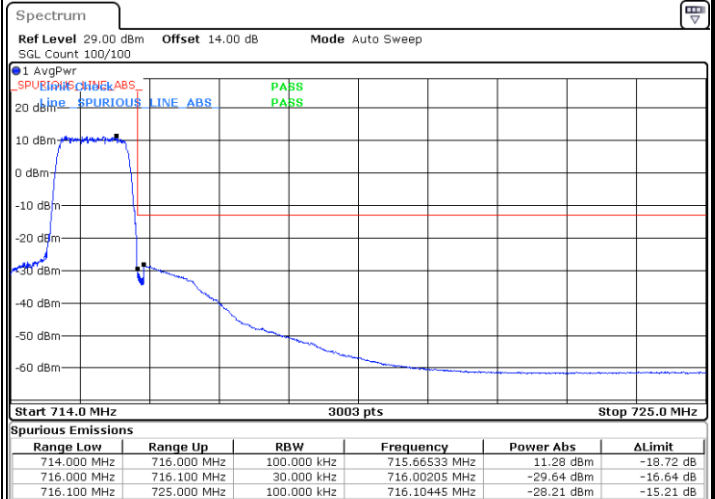
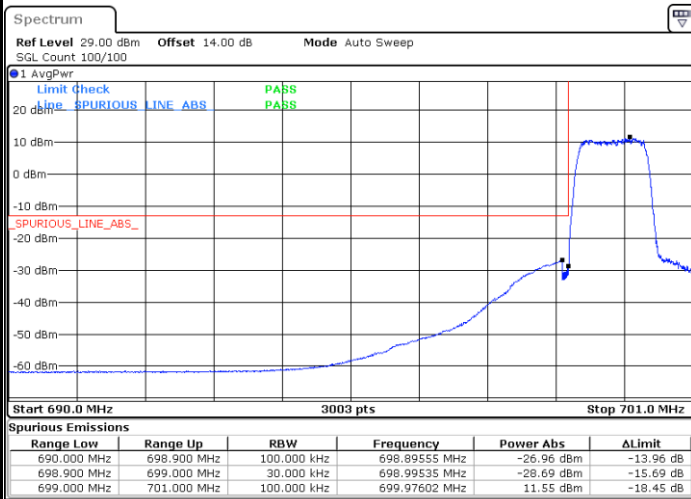


Date: 18.JUL.2022 22:00:55

Date: 18.JUL.2022 22:06:33

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



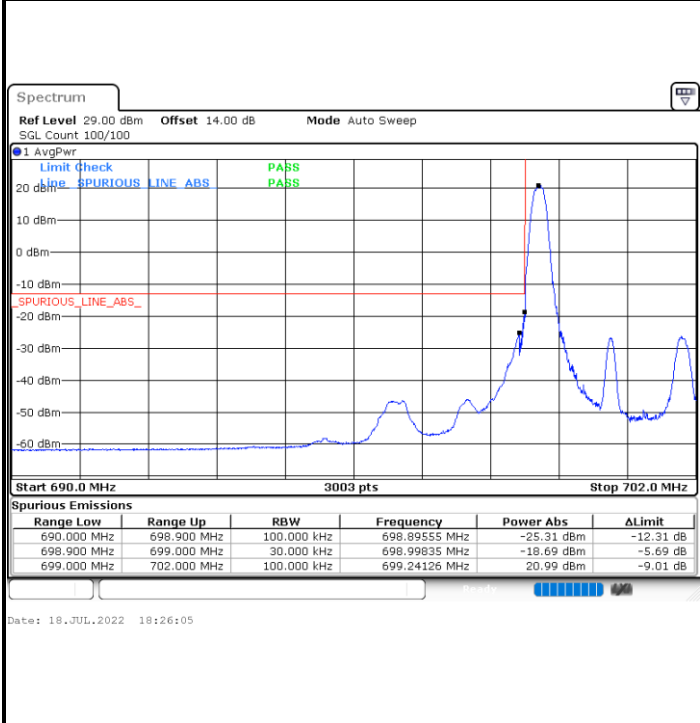
Date: 18.JUL.2022 21:59:21

Date: 18.JUL.2022 22:05:01

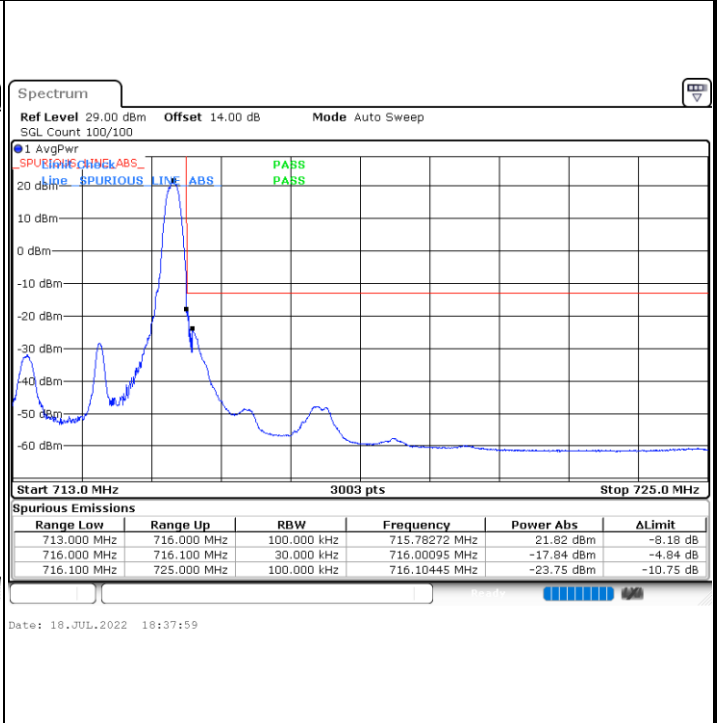


LTE Band 12 / 3MHz / QPSK

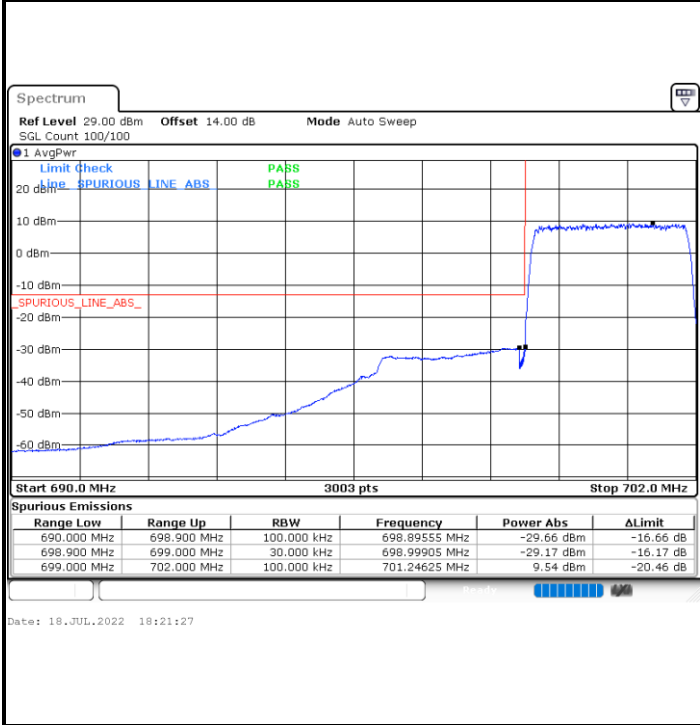
Lowest Band Edge / 1RB



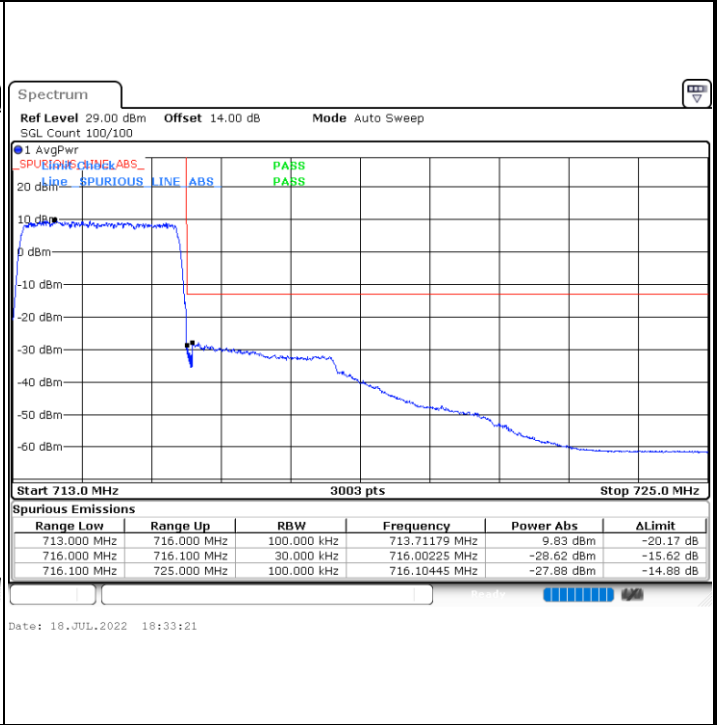
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



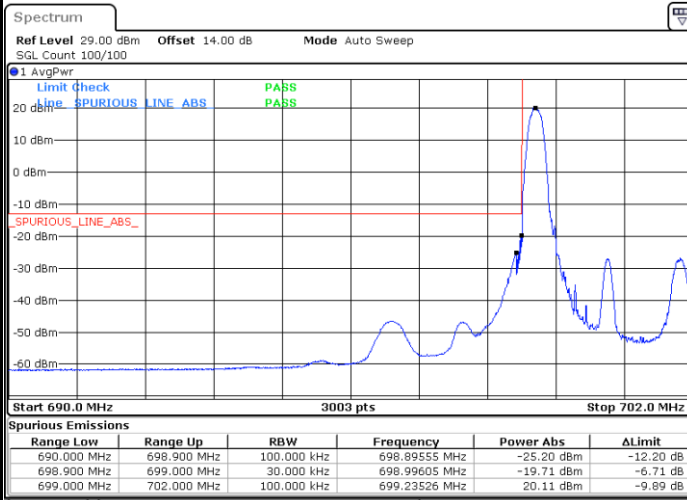
Highest Band Edge / Full RB





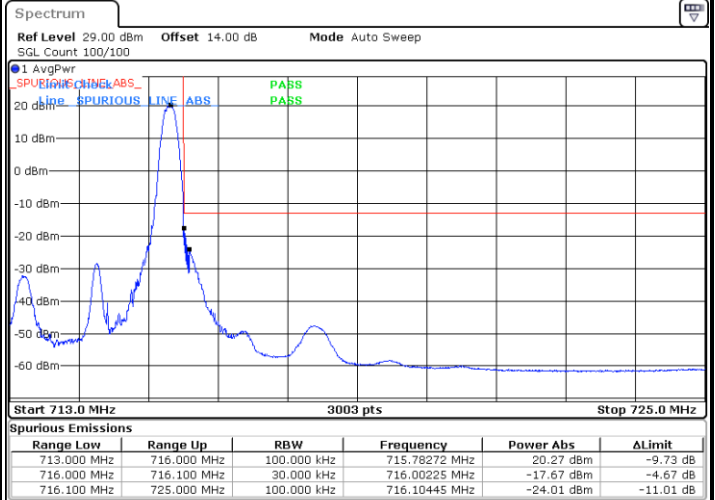
LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



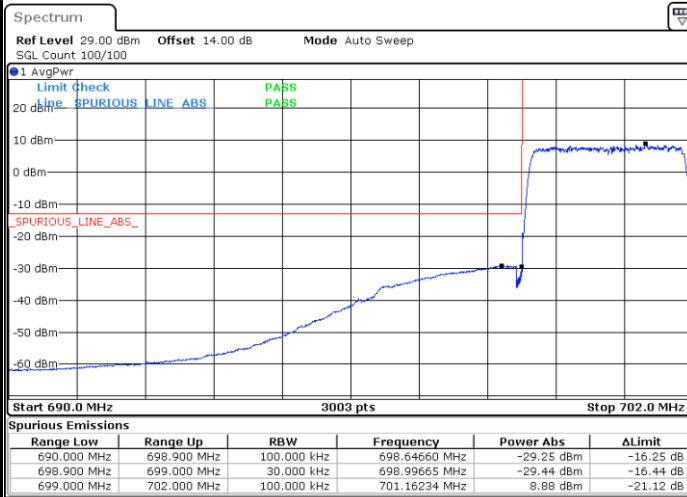
Date: 18.JUL.2022 18:24:32

Highest Band Edge / 1 RB



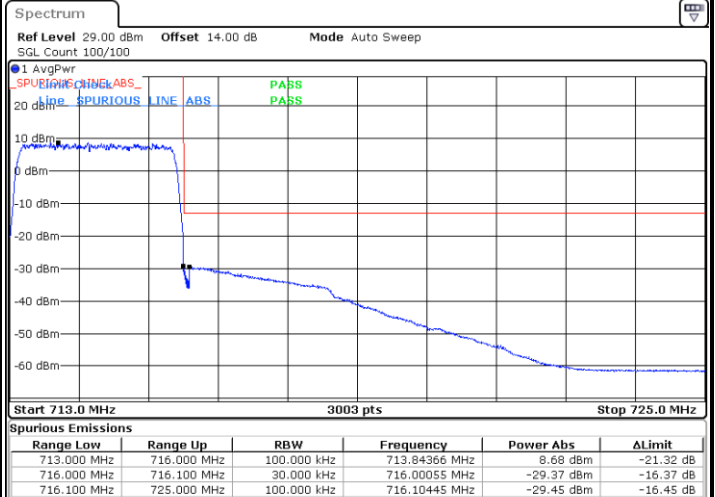
Date: 18.JUL.2022 18:36:27

Lowest Band Edge / Full RB



Date: 18.JUL.2022 18:23:00

Highest Band Edge / Full RB

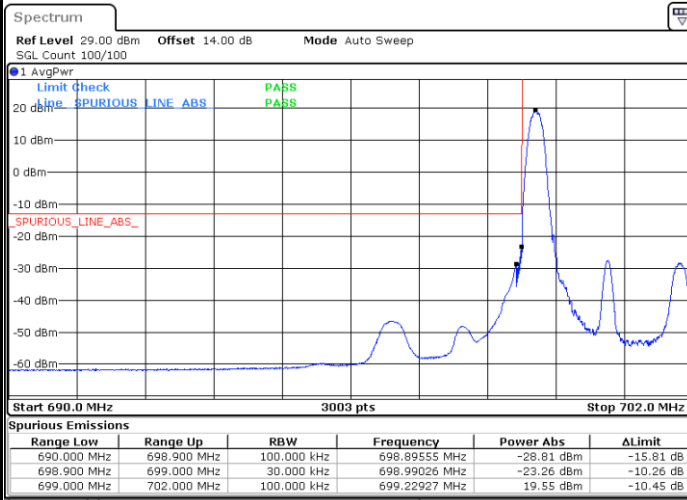


Date: 18.JUL.2022 18:34:54



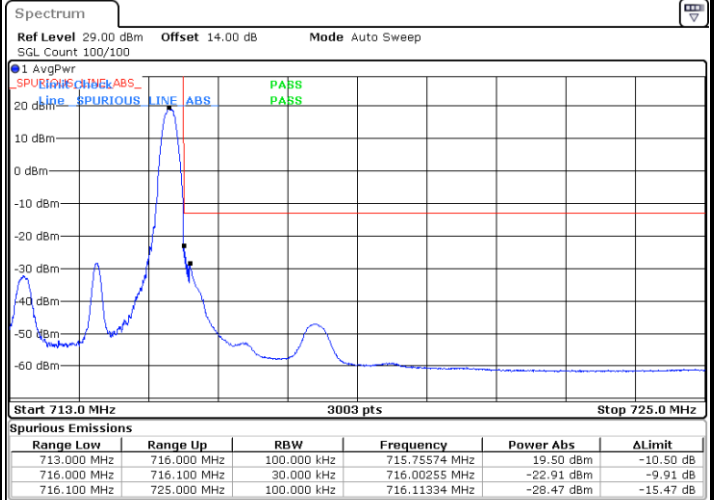
LTE Band 12 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



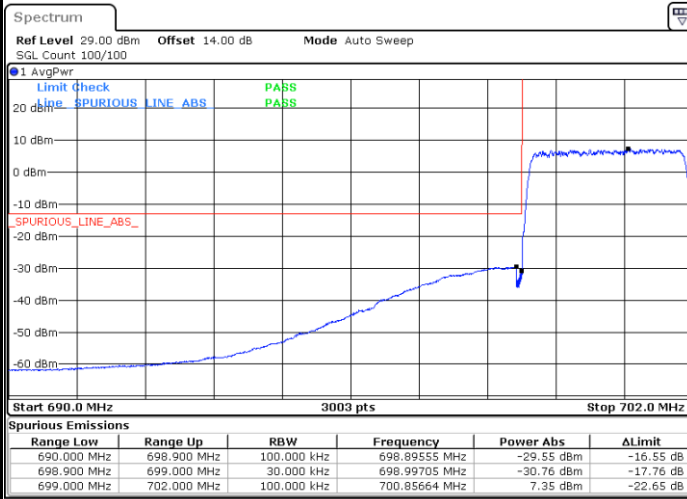
Date: 18.JUL.2022 18:43:10

Highest Band Edge / 1 RB



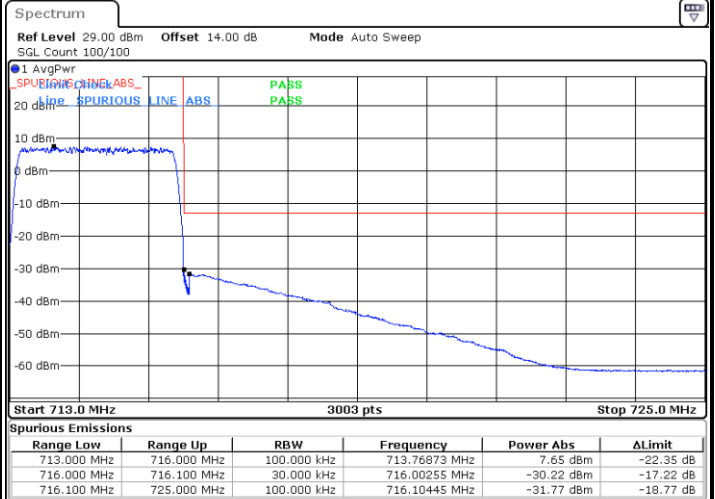
Date: 18.JUL.2022 18:48:48

Lowest Band Edge / Full RB



Date: 18.JUL.2022 18:41:37

Highest Band Edge / Full RB

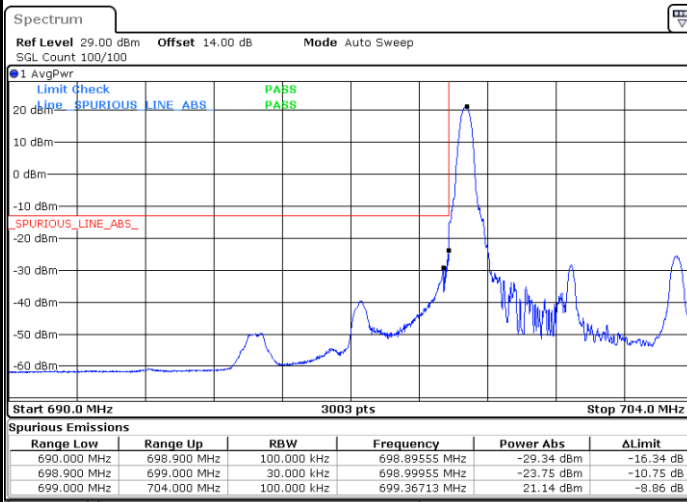


Date: 18.JUL.2022 18:47:15



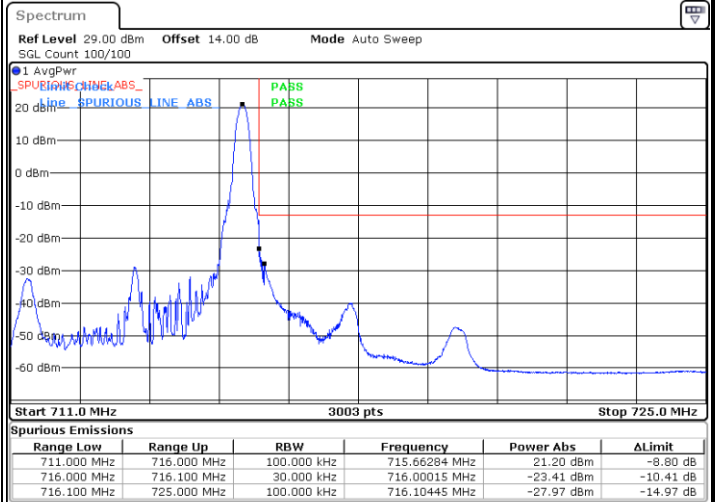
LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / 1 RB



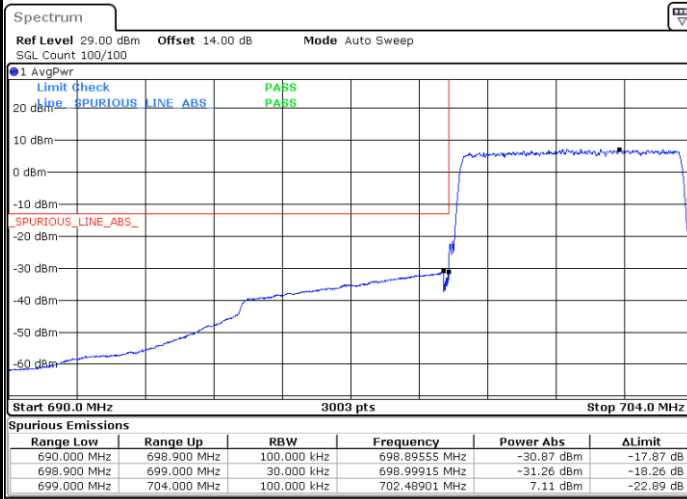
Date: 18.JUL.2022 19:07:06

Highest Band Edge / 1 RB



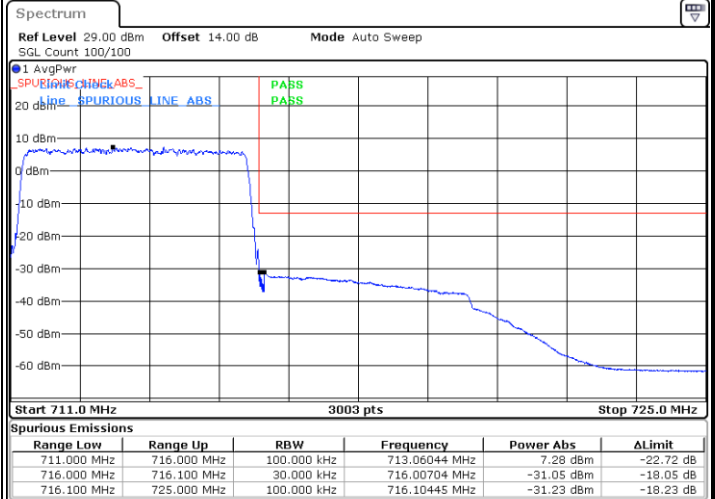
Date: 18.JUL.2022 19:17:28

Lowest Band Edge / Full RB



Date: 18.JUL.2022 19:02:27

Highest Band Edge / Full RB



Date: 18.JUL.2022 19:14:23