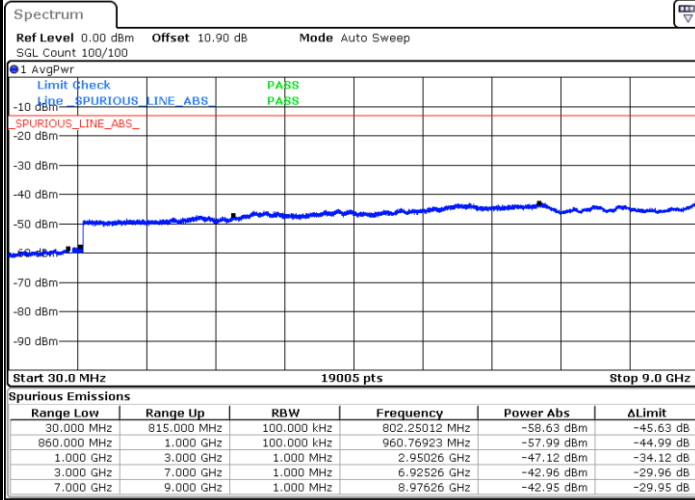




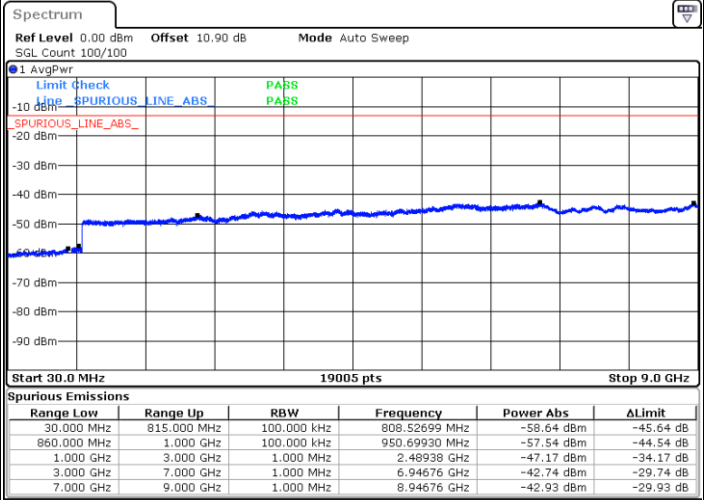
LTE Band 5 / 1.4MHz

Highest Channel / QPSK



Date: 18.JUL.2020 11:31:46

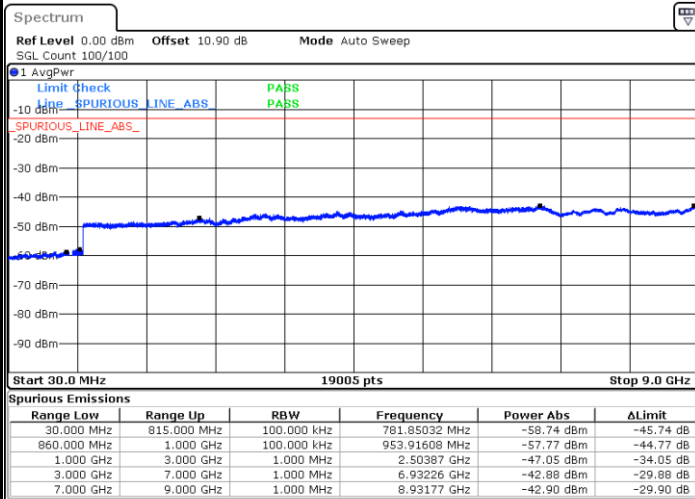
Highest Channel / 16QAM



Date: 18.JUL.2020 11:32:30

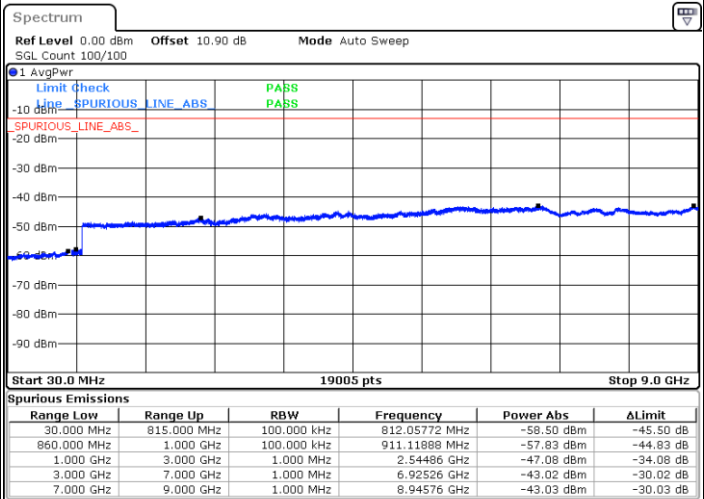
LTE Band 5 / 3MHz

Lowest Channel / QPSK



Date: 18.JUL.2020 11:41:37

Lowest Channel / 16QAM



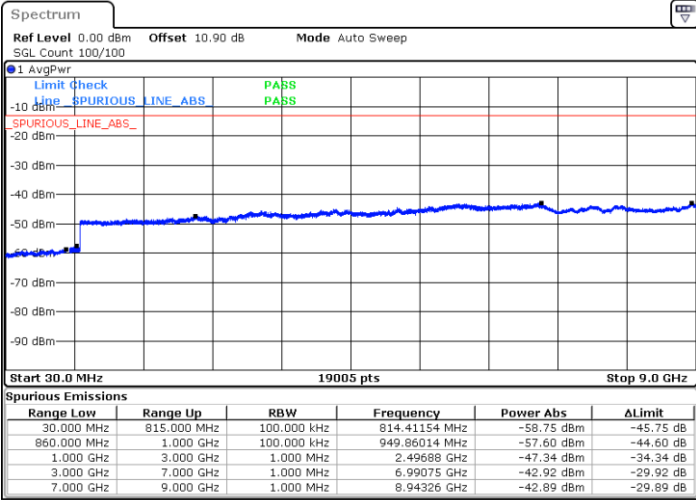
Date: 18.JUL.2020 11:43:29



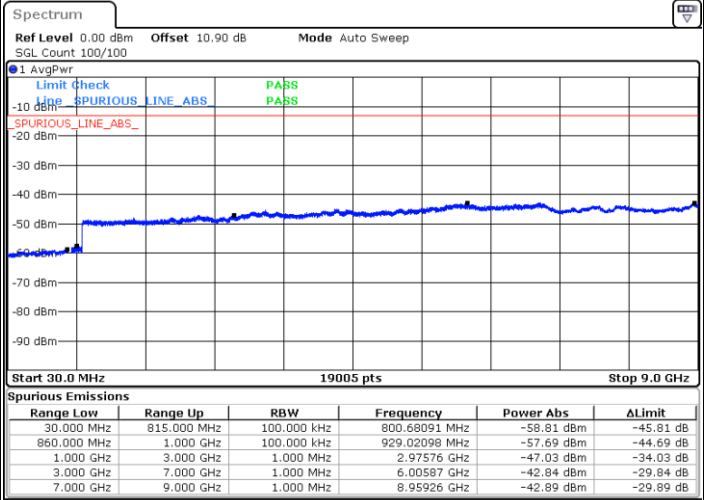
LTE Band 5 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM



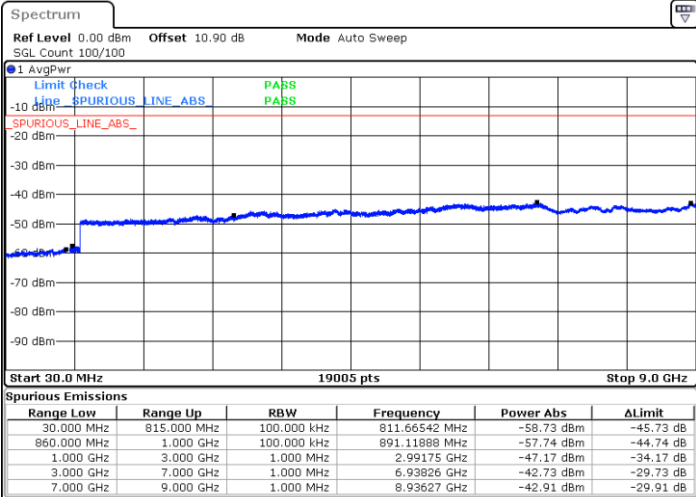
Date: 18.JUL.2020 11:36:52



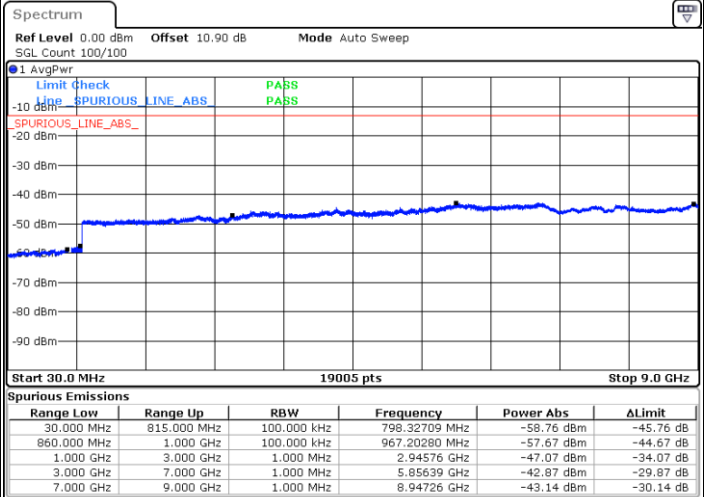
Date: 18.JUL.2020 11:37:53

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 18.JUL.2020 11:45:55



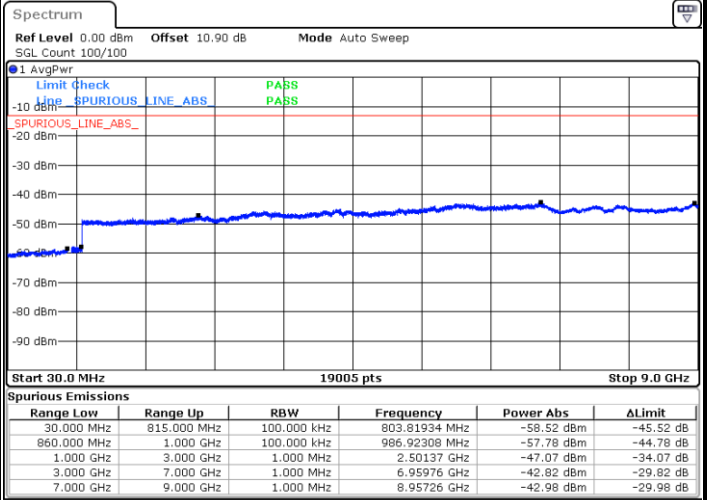
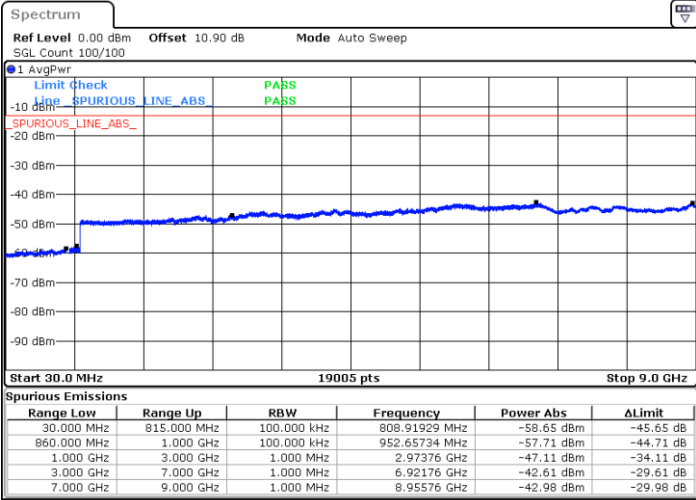
Date: 18.JUL.2020 11:48:49



LTE Band 5 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

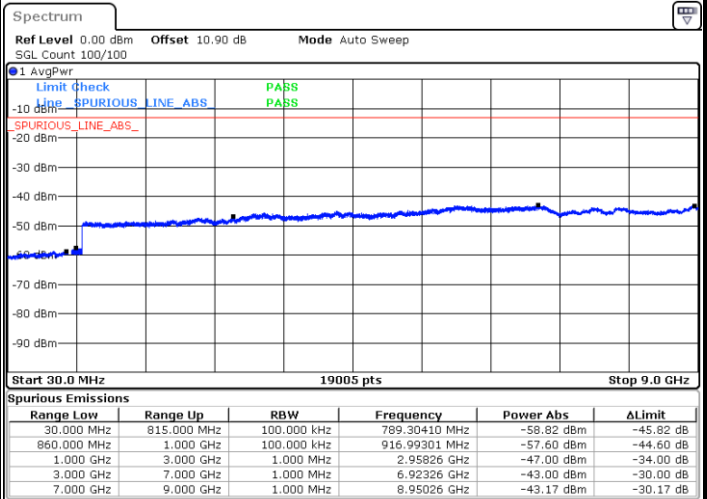
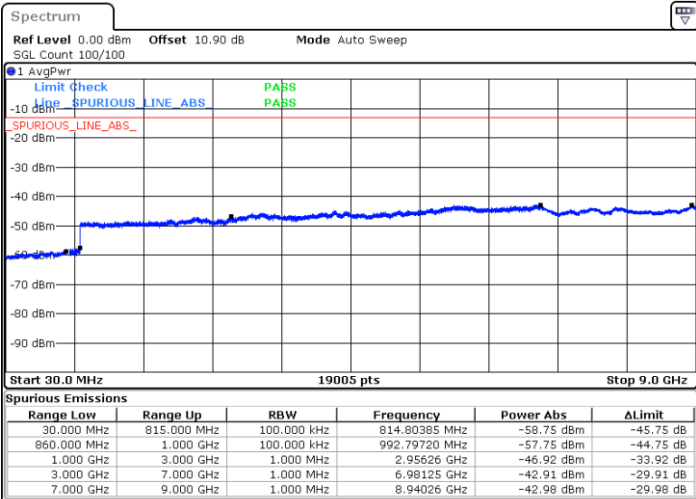


Date: 18.JUL.2020 11:55:01

Date: 18.JUL.2020 11:56:11

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 18.JUL.2020 11:51:41

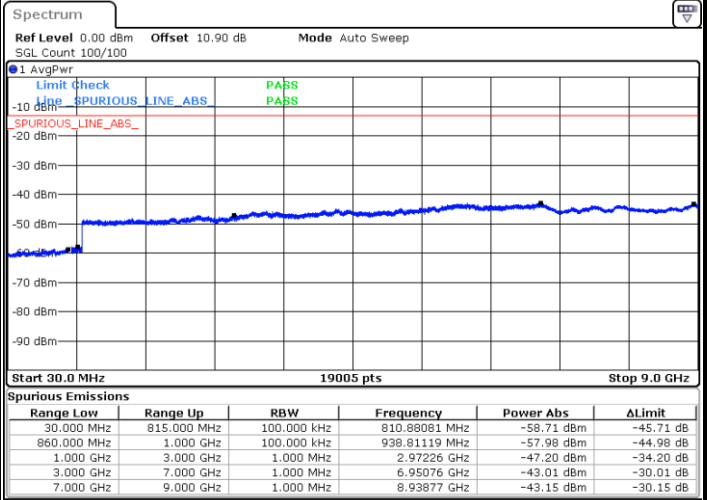
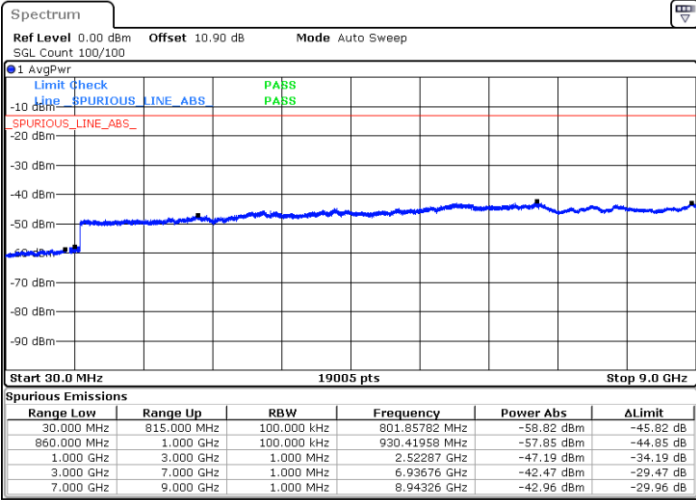
Date: 18.JUL.2020 11:52:19



LTE Band 5 / 5MHz

Highest Channel / QPSK

Highest Channel / 16QAM



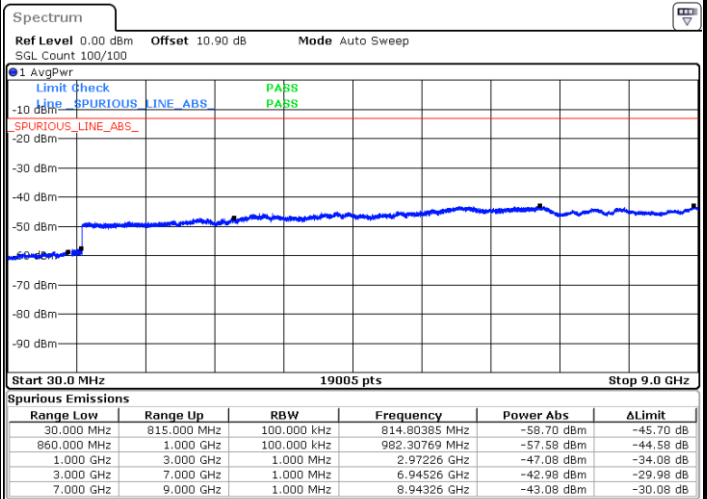
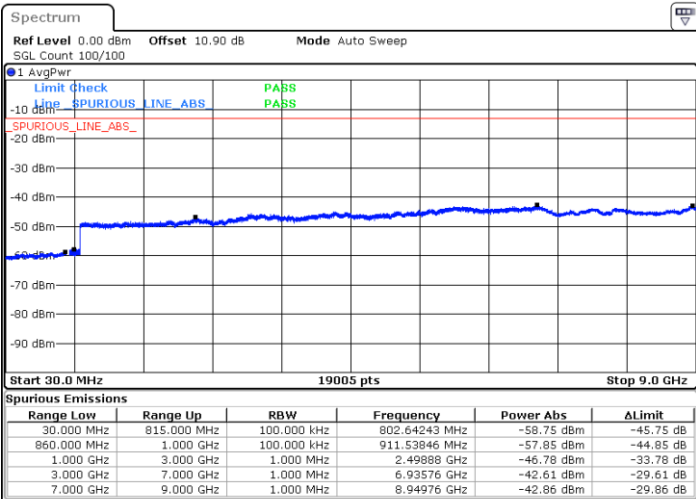
Date: 18.JUL.2020 11:58:13

Date: 18.JUL.2020 12:00:28

LTE Band 5 / 10MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 18.JUL.2020 12:07:21

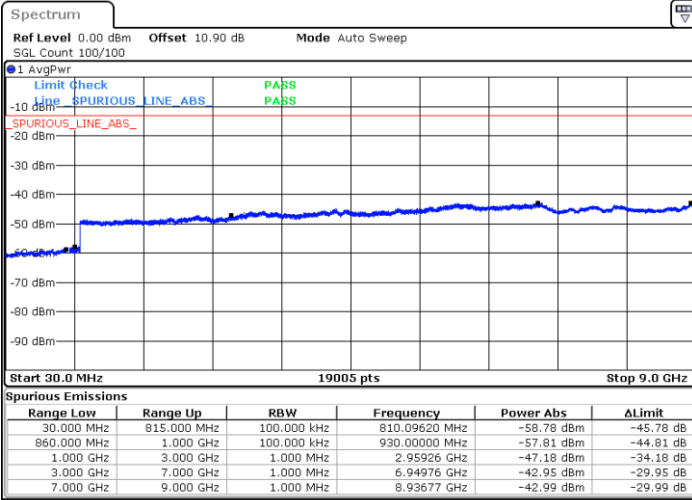
Date: 18.JUL.2020 12:08:30



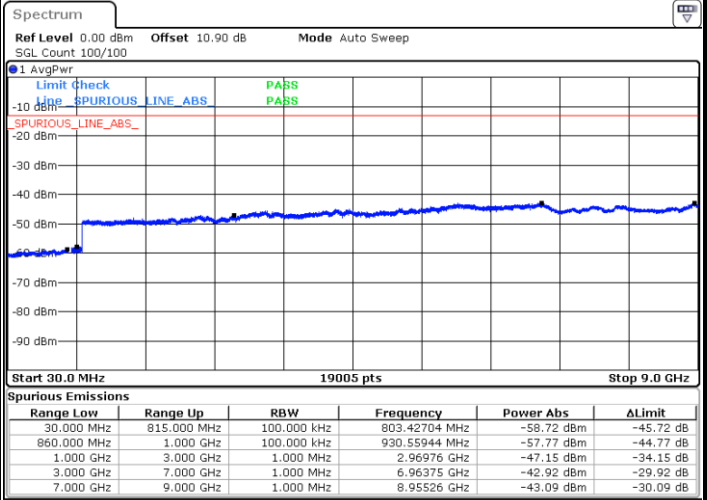
LTE Band 5 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM



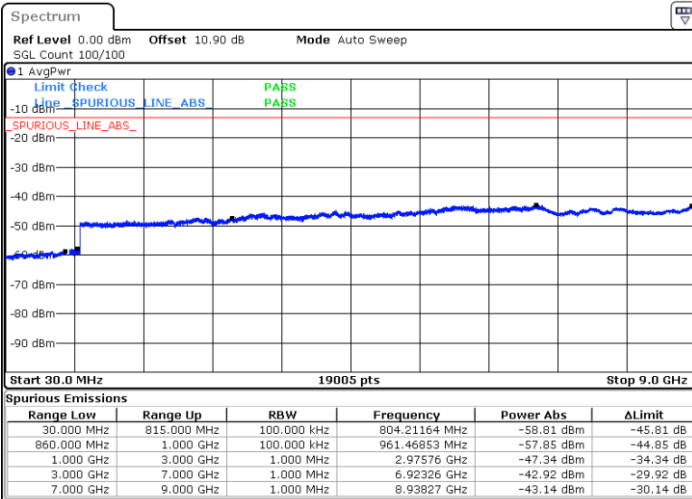
Date: 18.JUL.2020 12:03:18



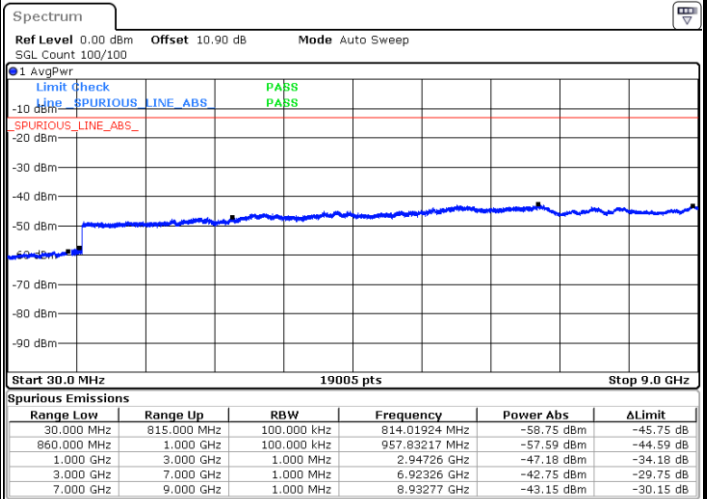
Date: 18.JUL.2020 12:04:21

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 18.JUL.2020 12:14:21



Date: 18.JUL.2020 12:16:33



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	0.0023	
30	Normal Voltage	0.0011	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0006	
0	Normal Voltage	0.0016	
-10	Normal Voltage	0.0002	
-20	Normal Voltage	0.0264	
-30	Normal Voltage	0.0013	
20	Maximum Voltage	0.0023	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0037	

Note:

1. Normal Voltage =3.6 V. ; Battery End Point (BEP) =3.3 V. ; Maximum Voltage =3.7 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 12

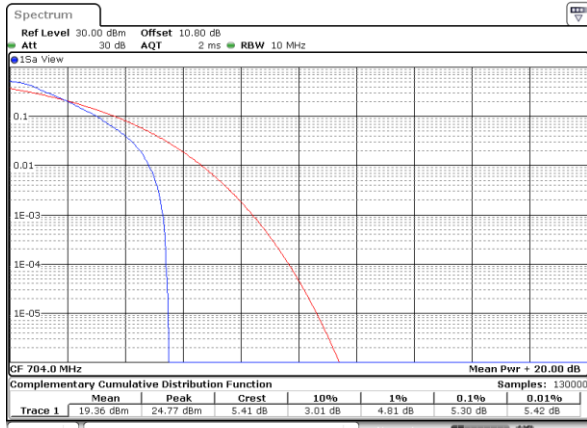
Peak-to-Average Ratio

Mode	LTE Band 12 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	5.30	5.13	8.61	6.03	PASS
Middle CH	8.49	8.49	8.41	5.94	
Highest CH	8.52	8.41	7.16	6.26	



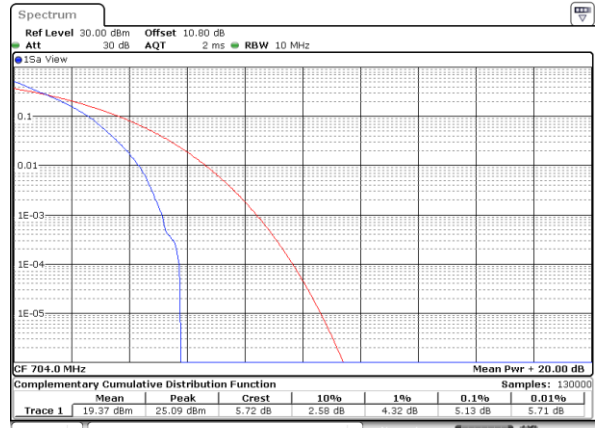
LTE Band 12 / 10MHz / QPSK

Lowest Channel / 1RB



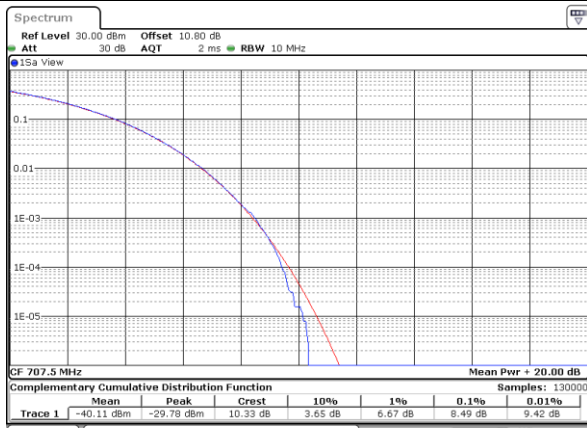
Date: 18_JUL_2020 14:07:23

Lowest Channel / Full RB



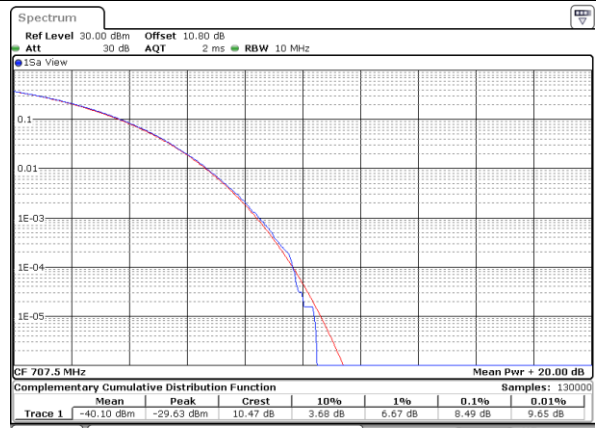
Date: 18_JUL_2020 14:10:121

Middle Channel / 1RB



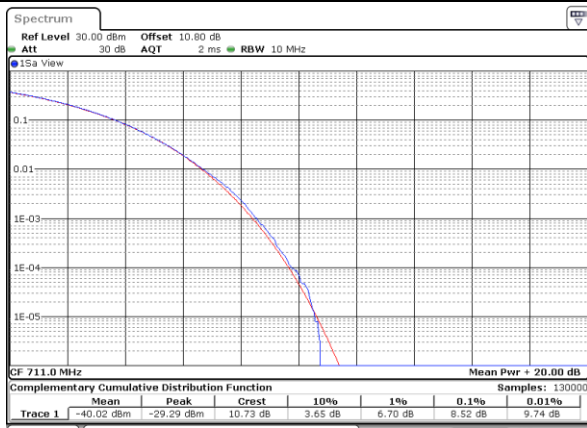
Date: 18_JUL_2020 14:01:55

Middle Channel / Full RB



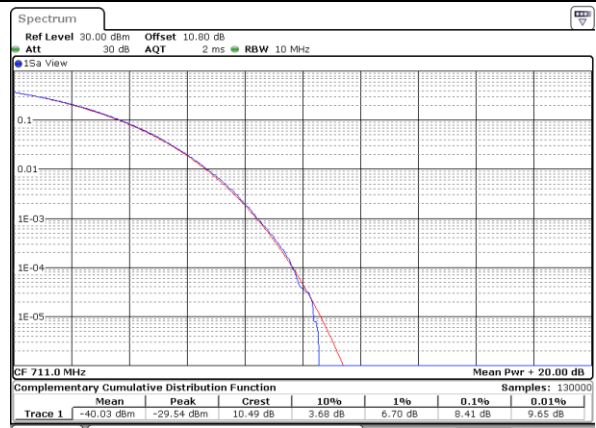
Date: 18_JUL_2020 14:10:141

Highest Channel / 1RB



Date: 18_JUL_2020 14:11:17

Highest Channel / Full RB

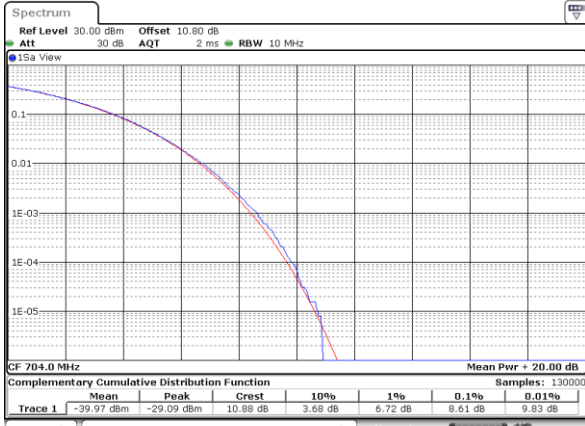


Date: 18_JUL_2020 14:11:023



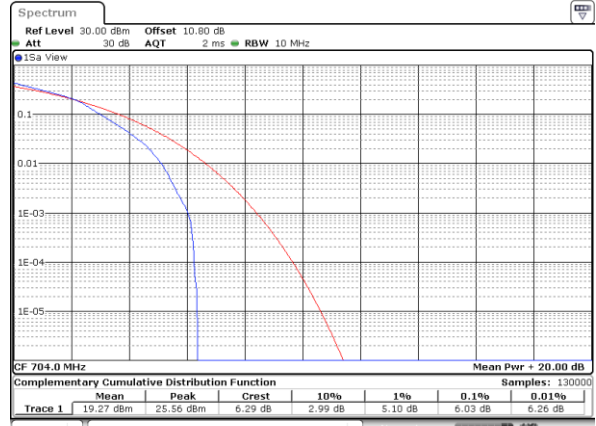
LTE Band 12 / 10MHz / 16QAM

Lowest Channel / 1RB



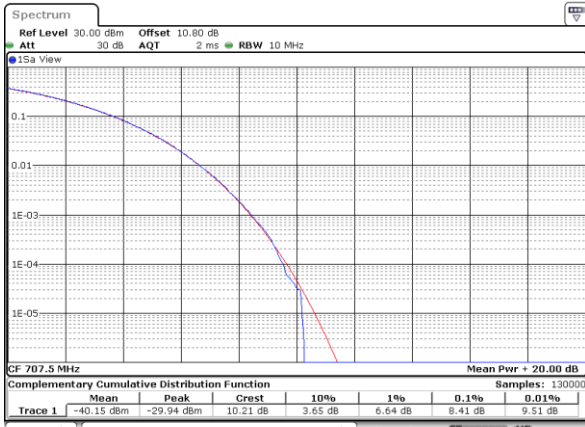
Date: 18_JUL.2020 14:08:26

Lowest Channel / Full RB



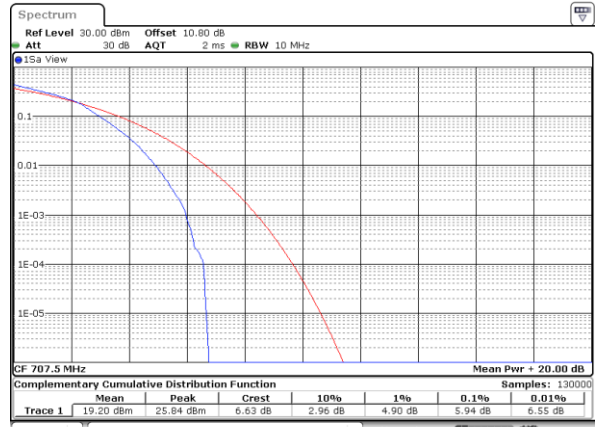
Date: 21_JUL.2020 11:39:35

Middle Channel / 1RB



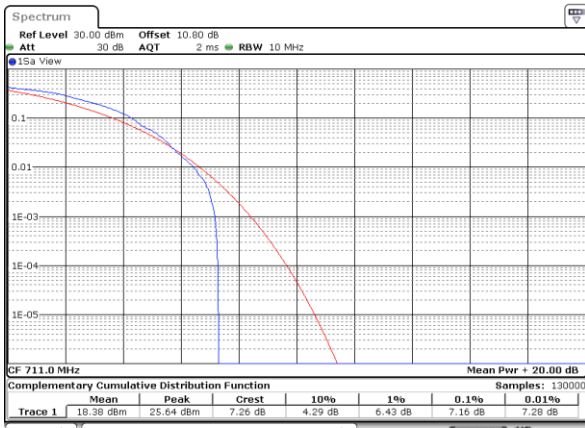
Date: 18_JUL.2020 14:03:10

Middle Channel / Full RB



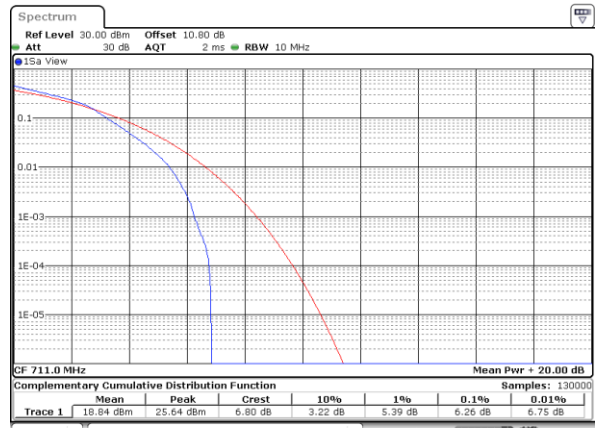
Date: 21_JUL.2020 11:36:26

Highest Channel / 1RB



Date: 18_JUL.2020 14:13:53

Highest Channel / Full RB



Date: 21_JUL.2020 11:40:47



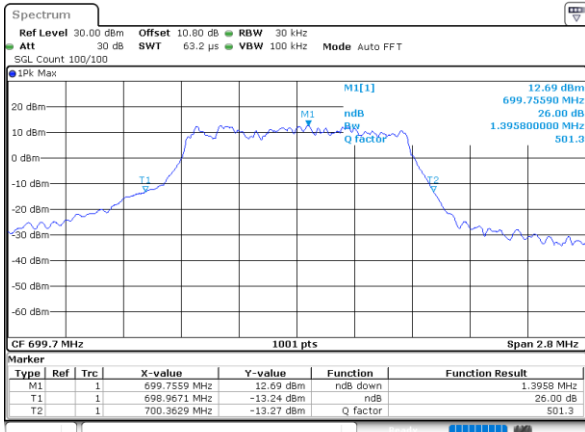
26dB Bandwidth

Mode	LTE Band 12 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.40	1.31	1.40	1.43	1.35	1.35	1.80	1.60	-	-	-	-
Middle CH	1.27	1.33	1.44	1.38	1.38	1.39	1.78	1.68	-	-	-	-
Highest CH	1.32	1.25	1.39	1.38	1.39	1.37	1.82	1.74	-	-	-	-



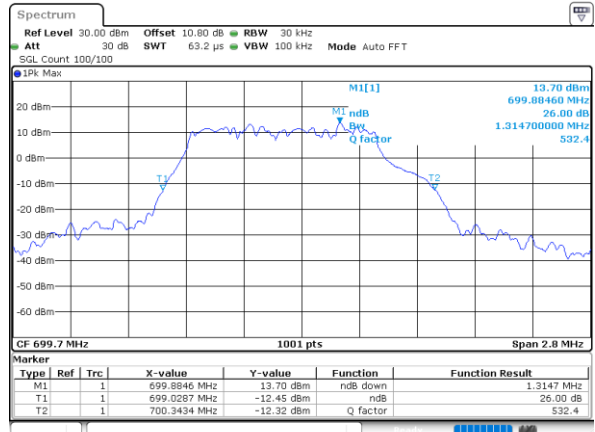
LTE Band 12

Lowest Channel / 1.4MHz / QPSK



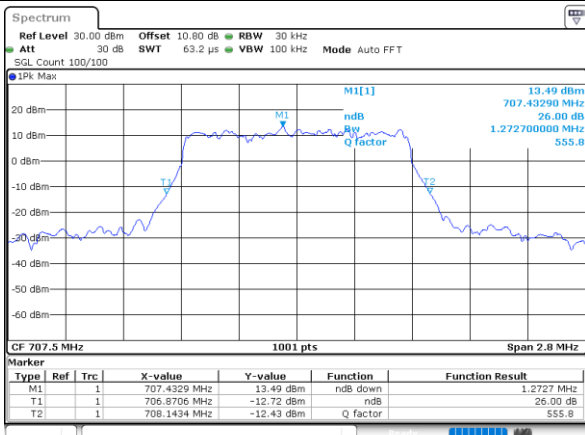
Date: 18_JUL_2020 14:17:49

Lowest Channel / 1.4MHz / 16QAM



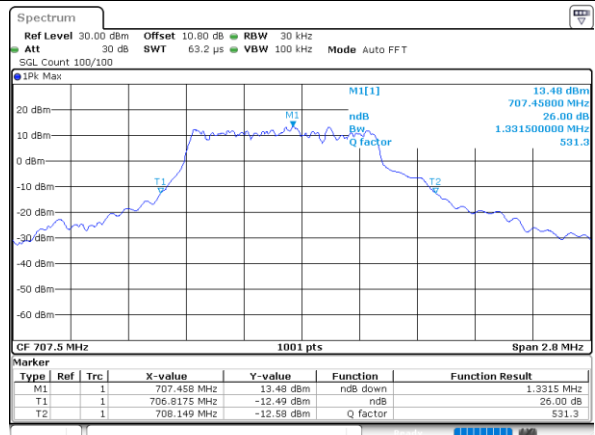
Date: 21_JUL_2020 10:34:01

Middle Channel / 1.4MHz / QPSK



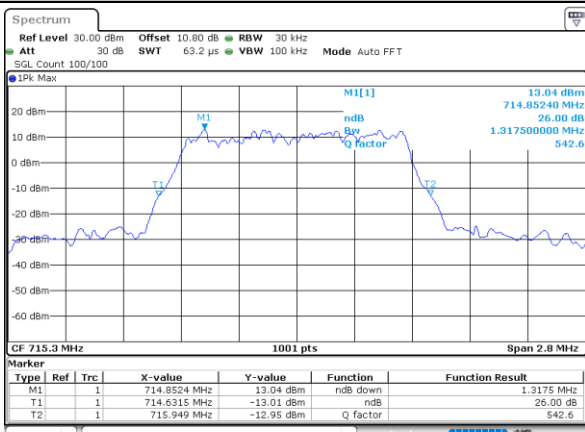
Date: 18_JUL_2020 14:15:48

Middle Channel / 1.4MHz / 16QAM



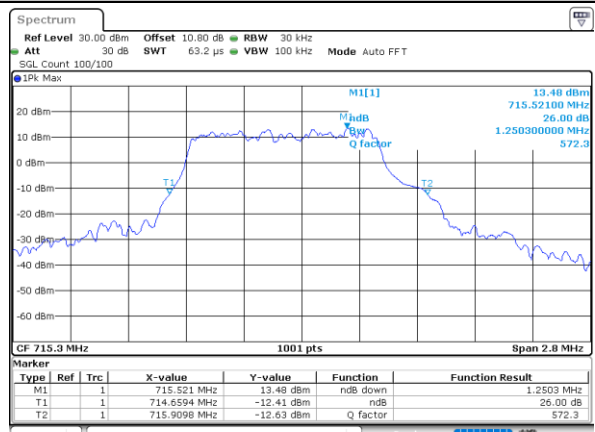
Date: 21_JUL_2020 10:33:27

Highest Channel / 1.4MHz / QPSK



Date: 18_JUL_2020 14:21:36

Highest Channel / 1.4MHz / 16QAM



Date: 21_JUL_2020 10:38:24



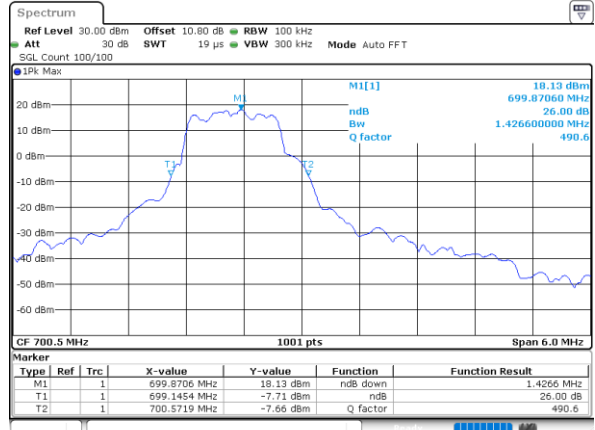
LTE Band 12

Lowest Channel / 3MHz / QPSK



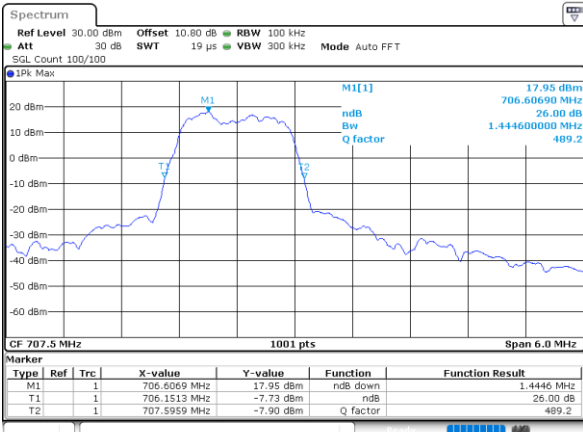
Date: 18_JUL_2020 14:29:08

Lowest Channel / 3MHz / 16QAM



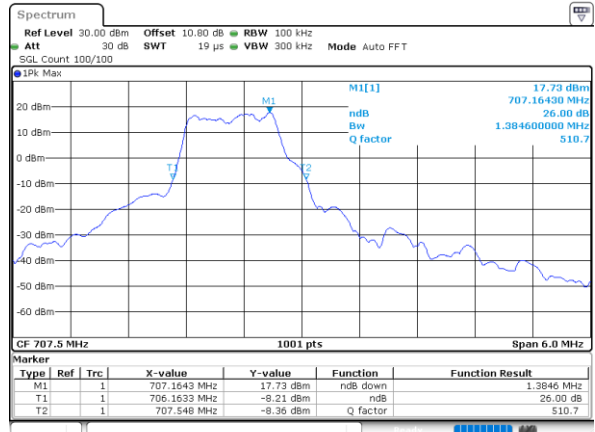
Date: 21_JUL_2020 10:41:53

Middle Channel / 3MHz / QPSK



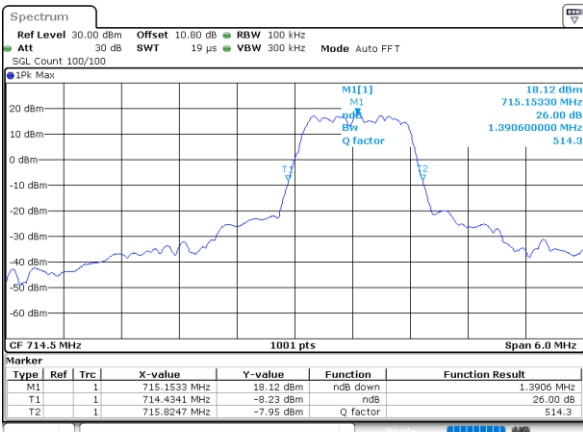
Date: 18_JUL_2020 14:26:55

Middle Channel / 3MHz / 16QAM



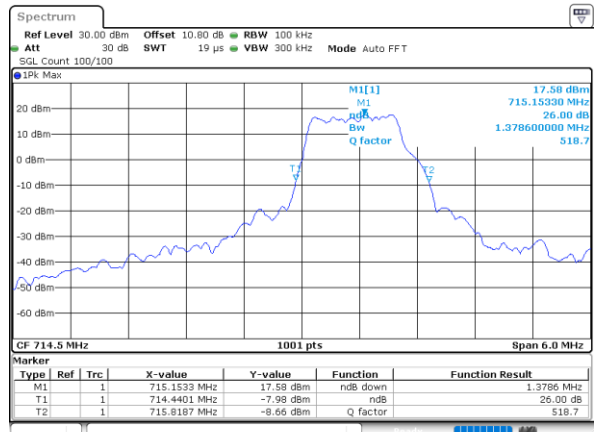
Date: 21_JUL_2020 10:41:31

Highest Channel / 3MHz / QPSK



Date: 18_JUL_2020 14:34:09

Highest Channel / 3MHz / 16QAM

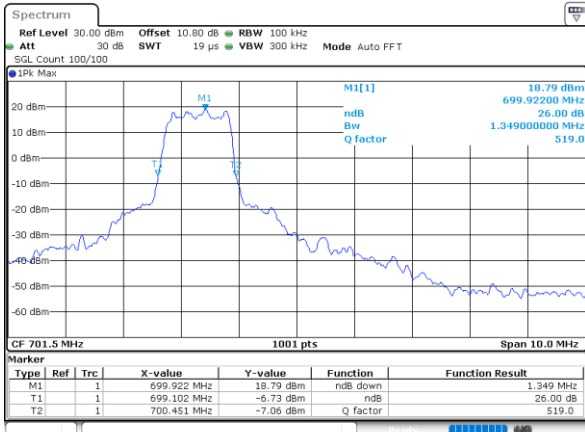


Date: 21_JUL_2020 10:43:08



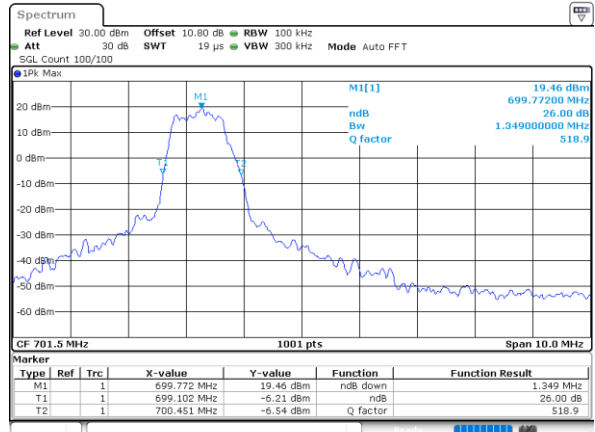
LTE Band 12

Lowest Channel / 5MHz / QPSK



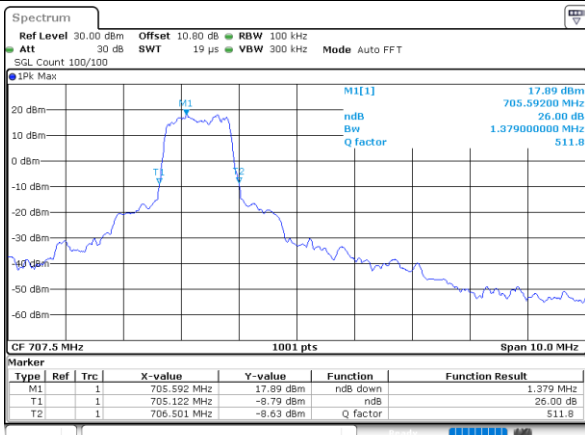
Date: 18_JUL_2020 14:41:21

Lowest Channel / 5MHz / 16QAM



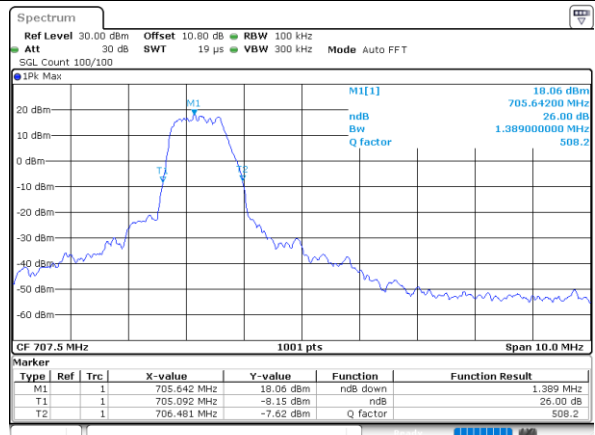
Date: 21_JUL_2020 11:31:51

Middle Channel / 5MHz / QPSK



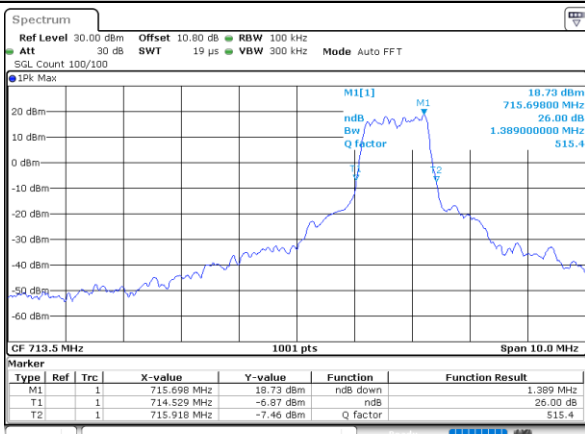
Date: 18_JUL_2020 14:59:00

Middle Channel / 5MHz / 16QAM



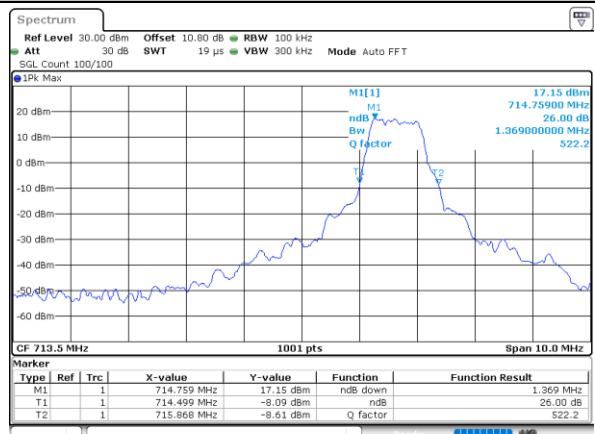
Date: 21_JUL_2020 11:31:14

Highest Channel / 5MHz / QPSK



Date: 18_JUL_2020 14:46:38

Highest Channel / 5MHz / 16QAM

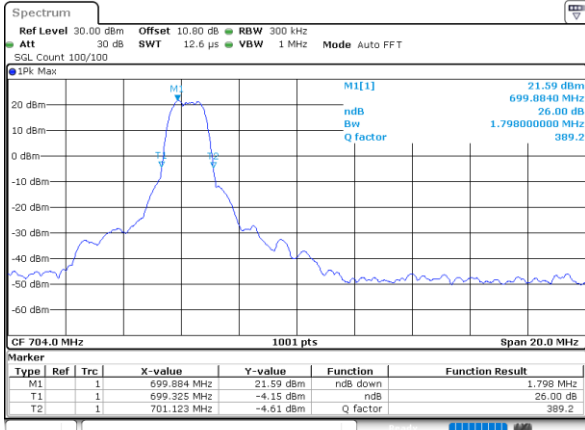


Date: 21_JUL_2020 11:33:41



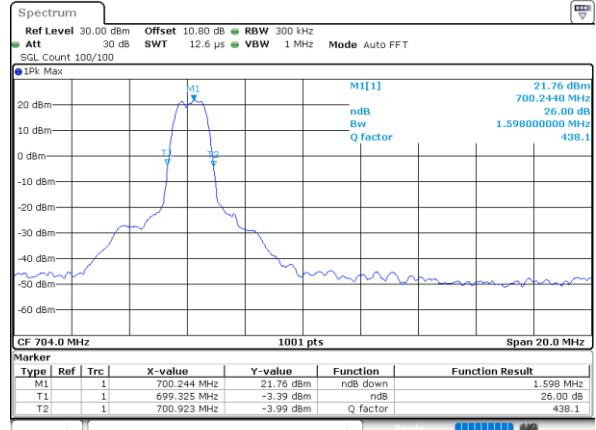
LTE Band 12

Lowest Channel / 10MHz / QPSK



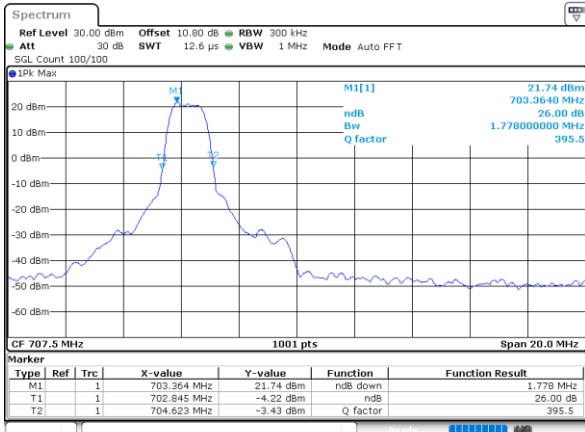
Date: 18_JUL_2020 14:05:08

Lowest Channel / 10MHz / 16QAM



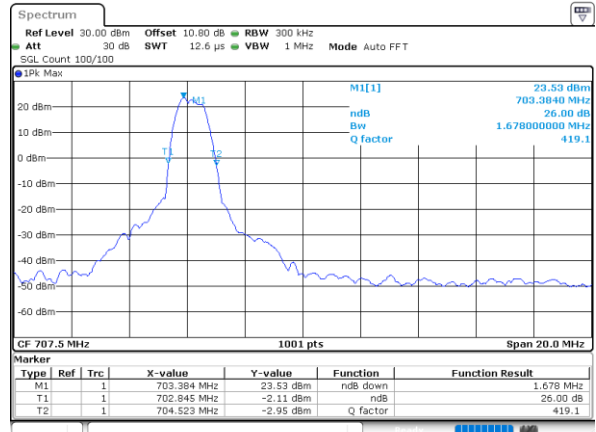
Date: 21_JUL_2020 11:38:49

Middle Channel / 10MHz / QPSK



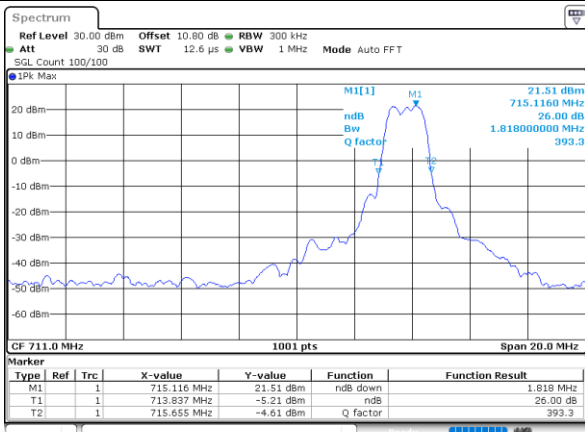
Date: 18_JUL_2020 14:01:03

Middle Channel / 10MHz / 16QAM



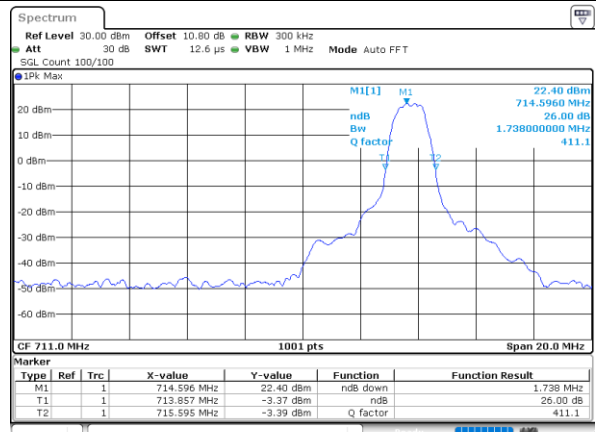
Date: 21_JUL_2020 11:36:14

Highest Channel / 10MHz / QPSK



Date: 18_JUL_2020 14:10:15

Highest Channel / 10MHz / 16QAM



Date: 21_JUL_2020 11:40:04



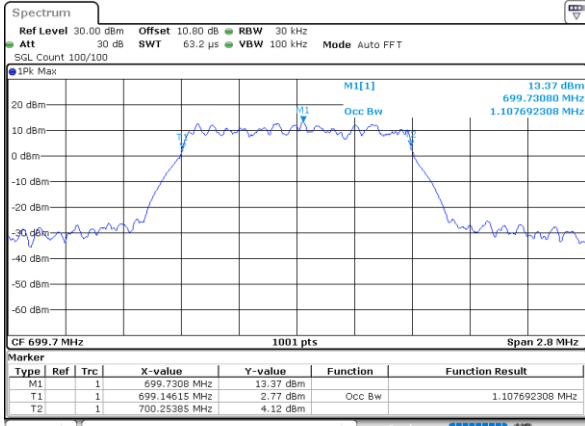
Occupied Bandwidth

Mode	LTE Band 12 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.11	0.93	1.15	0.99	1.14	1.15	1.40	1.28	-	-	-	-
Middle CH	1.10	0.92	1.17	1.01	1.17	1.01	1.42	1.26	-	-	-	-
Highest CH	1.10	0.91	1.15	1.00	1.16	1.07	1.44	1.30	-	-	-	-



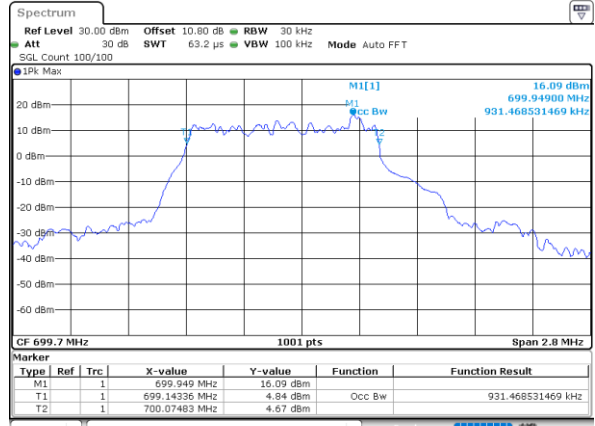
LTE Band 12

Lowest Channel / 1.4MHz / QPSK



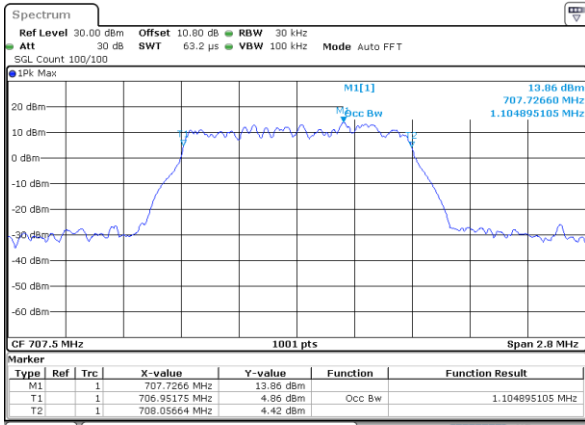
Date: 18_JUL_2020 14:17:42

Lowest Channel / 1.4MHz / 16QAM



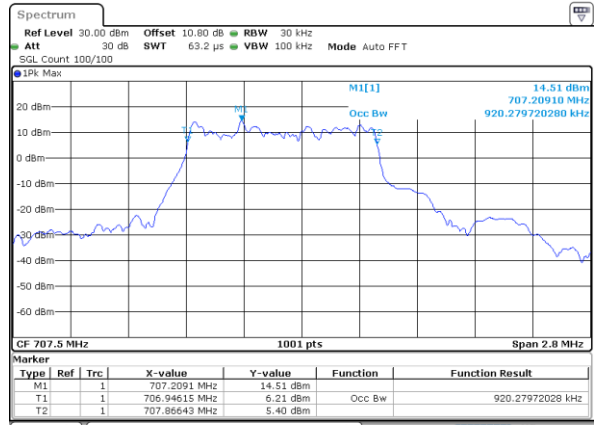
Date: 21_JUL_2020 10:33:54

Middle Channel / 1.4MHz / QPSK



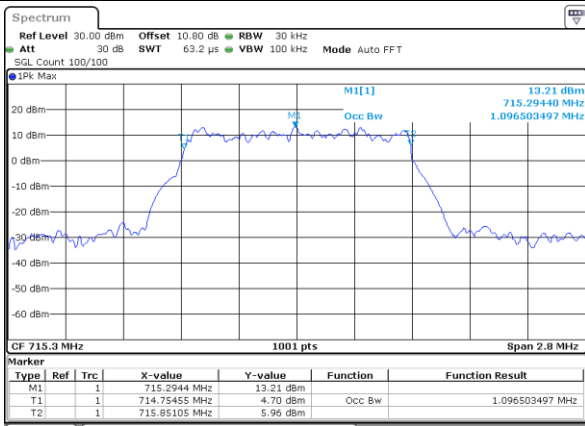
Date: 18_JUL_2020 14:15:41

Middle Channel / 1.4MHz / 16QAM



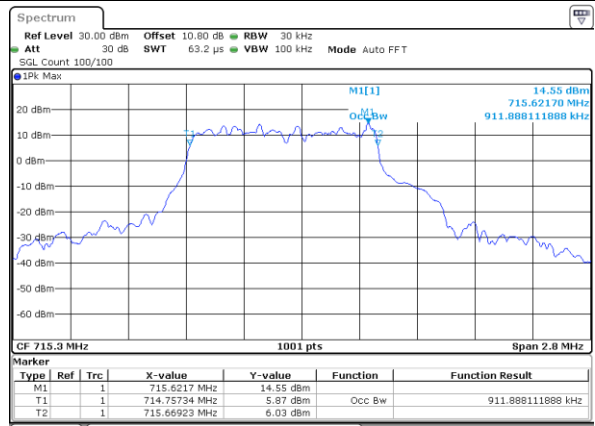
Date: 21_JUL_2020 10:33:19

Highest Channel / 1.4MHz / QPSK



Date: 18_JUL_2020 14:21:30

Highest Channel / 1.4MHz / 16QAM

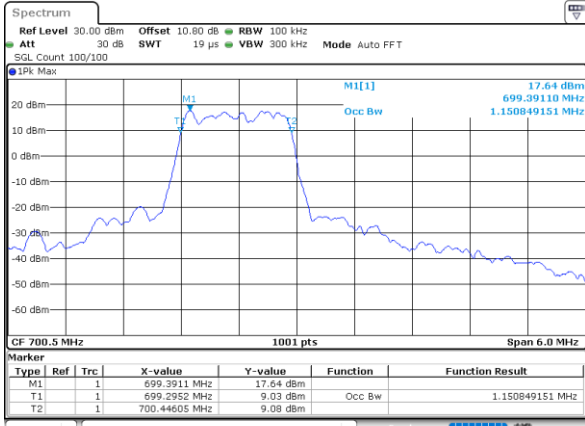


Date: 21_JUL_2020 10:38:18

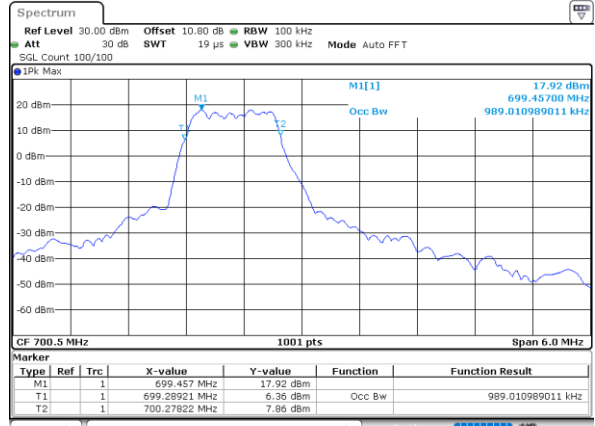


LTE Band 12

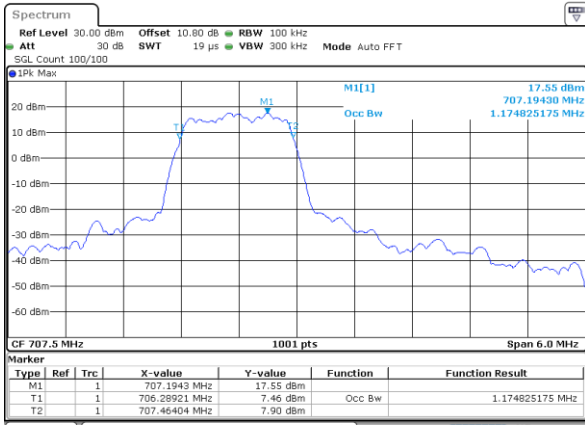
Lowest Channel / 3MHz / QPSK



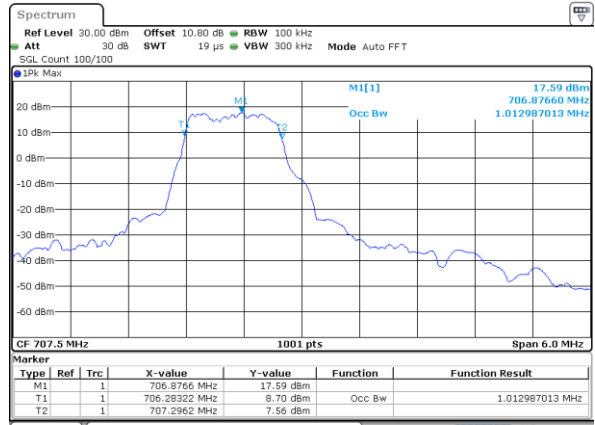
Lowest Channel / 3MHz / 16QAM



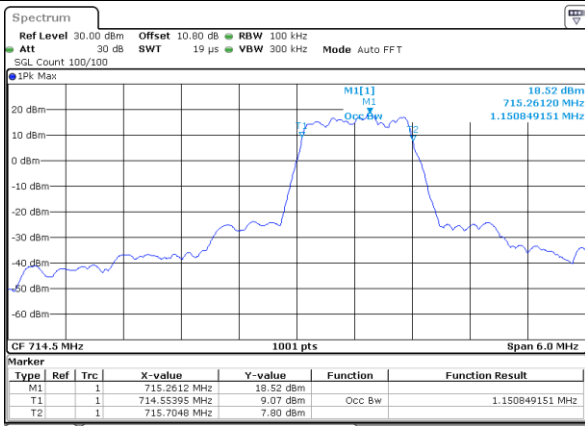
Middle Channel / 3MHz / QPSK



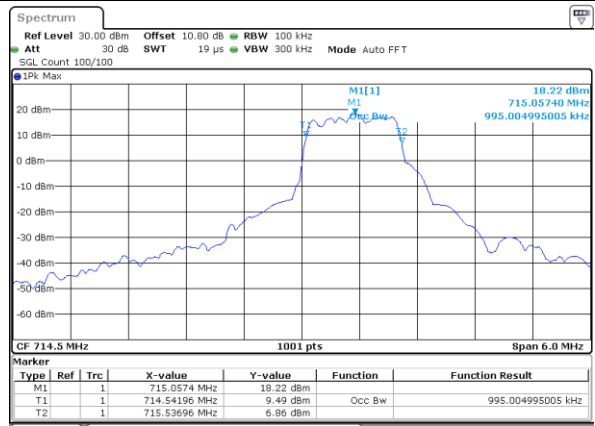
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK



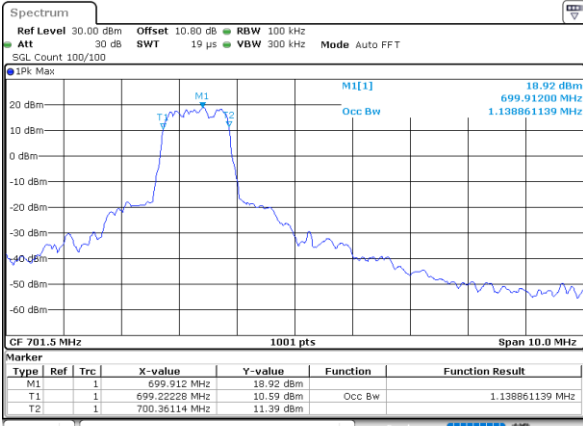
Highest Channel / 3MHz / 16QAM





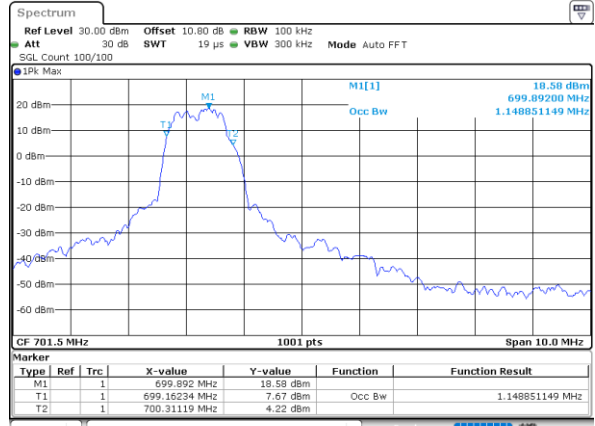
LTE Band 12

Lowest Channel / 5MHz / QPSK



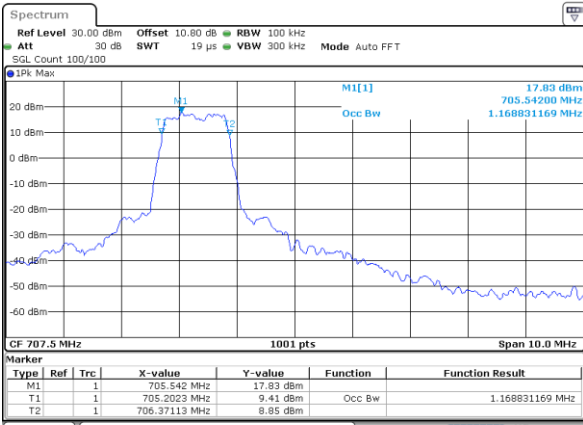
Date: 18_JUL_2020 14:41:14

Lowest Channel / 5MHz / 16QAM



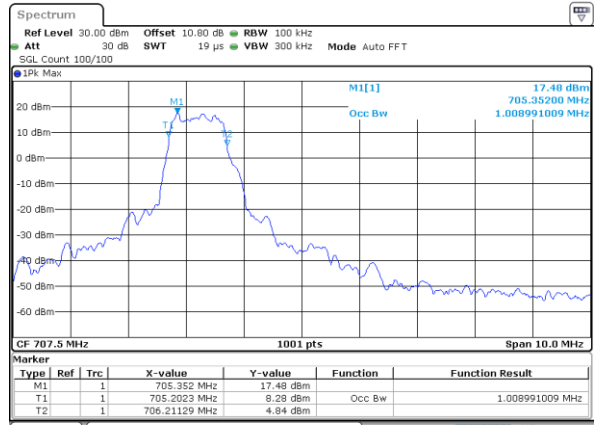
Date: 21_JUL_2020 11:31:44

Middle Channel / 5MHz / QPSK



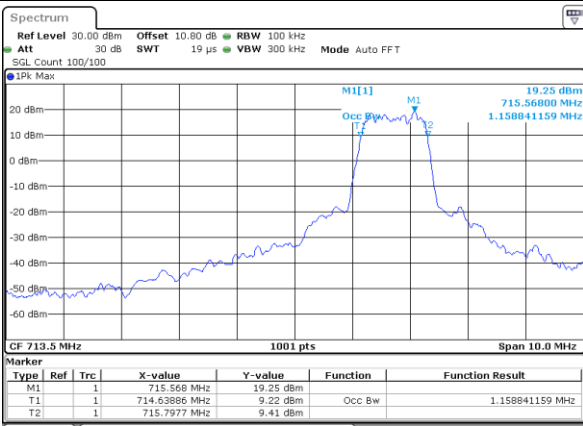
Date: 18_JUL_2020 14:58:53

Middle Channel / 5MHz / 16QAM



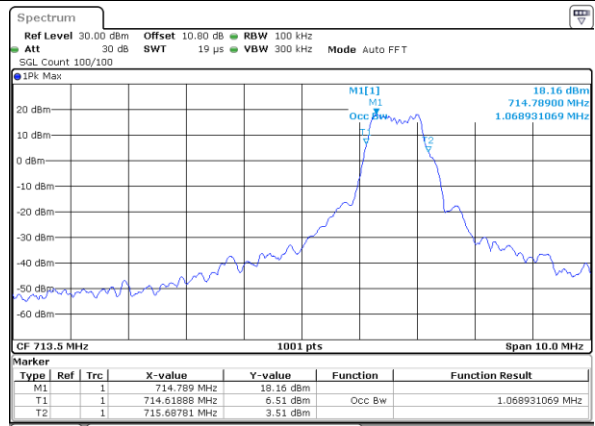
Date: 21_JUL_2020 11:31:08

Highest Channel / 5MHz / QPSK



Date: 18_JUL_2020 14:46:33

Highest Channel / 5MHz / 16QAM

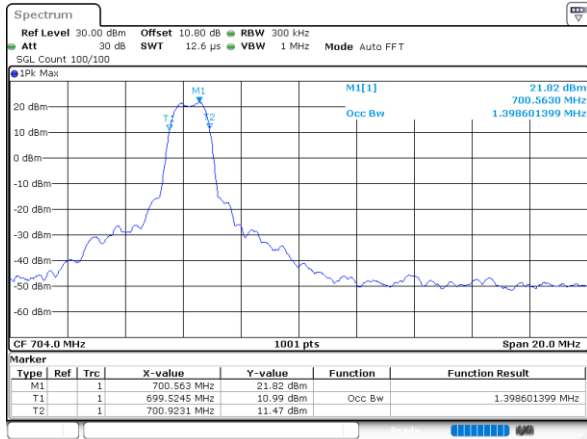


Date: 21_JUL_2020 11:33:35

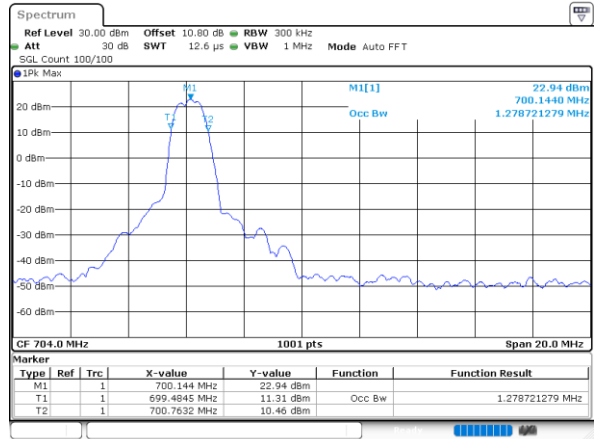


LTE Band 12

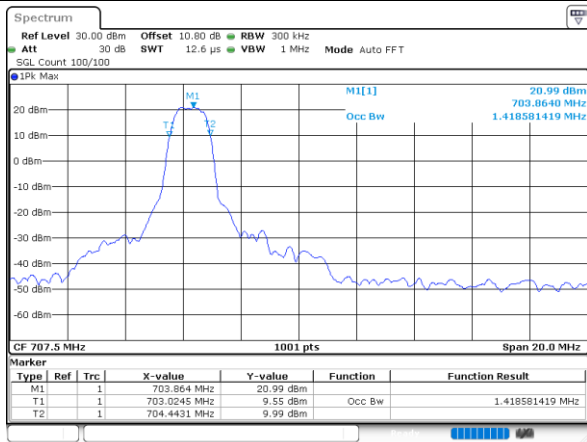
Lowest Channel / 10MHz / QPSK



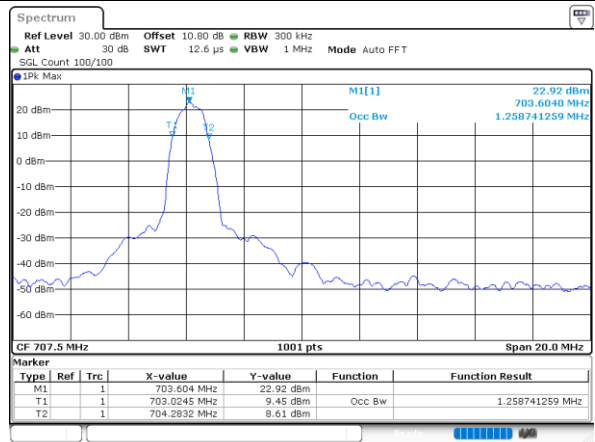
Lowest Channel / 10MHz / 16QAM



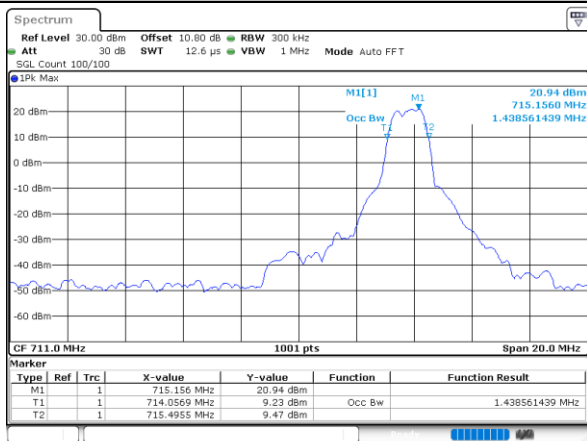
Middle Channel / 10MHz / QPSK



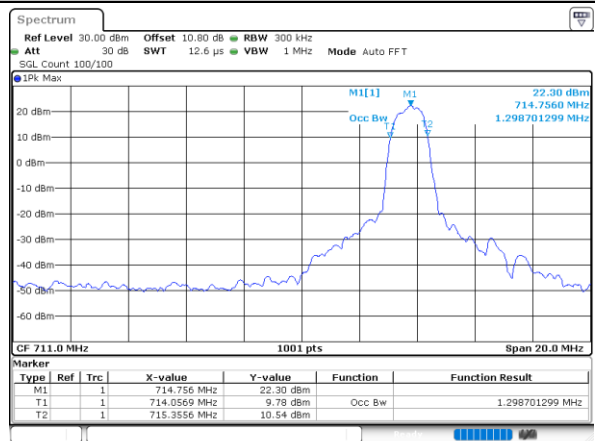
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK

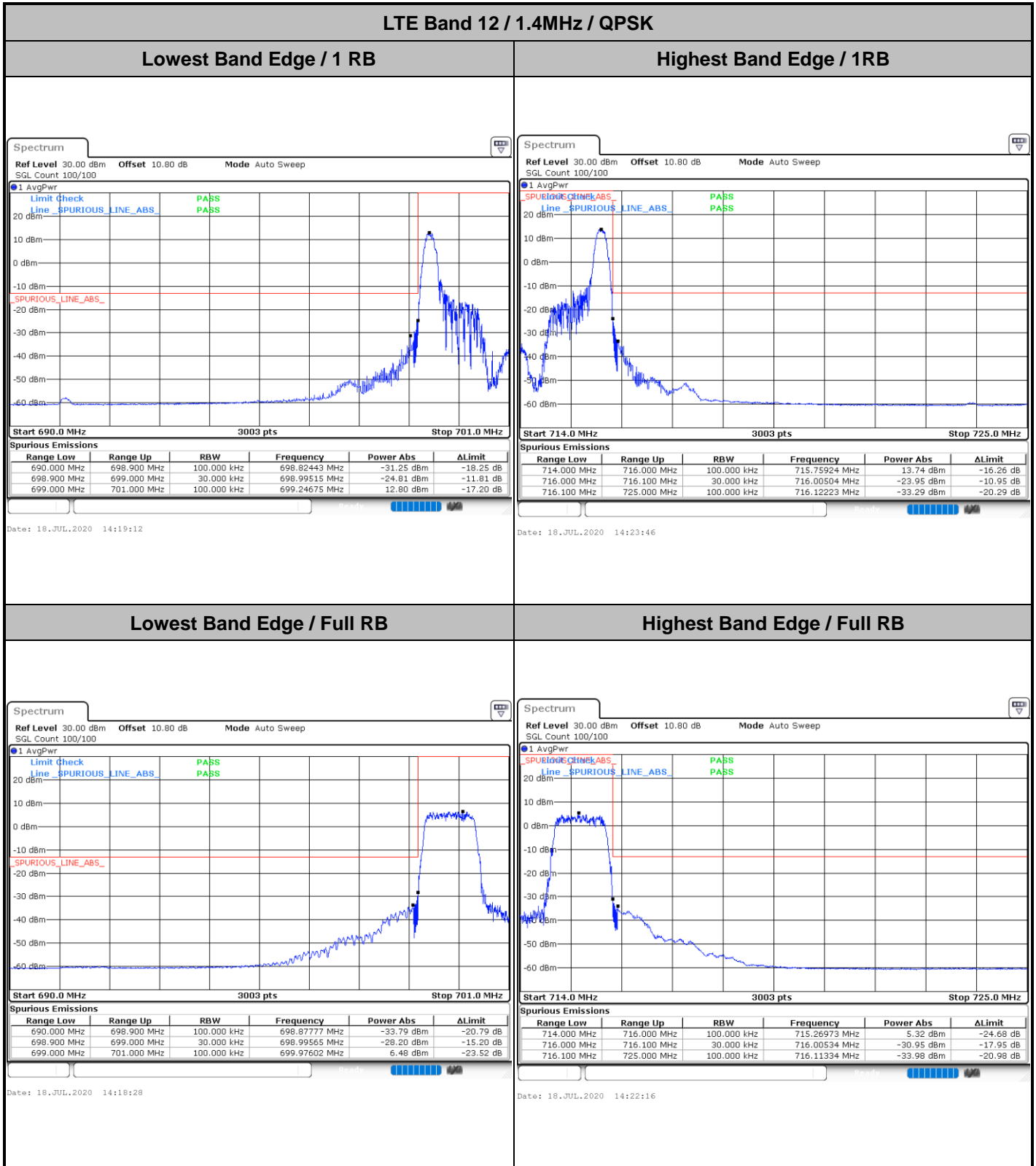


Highest Channel / 10MHz / 16QAM





Conducted Band Edge

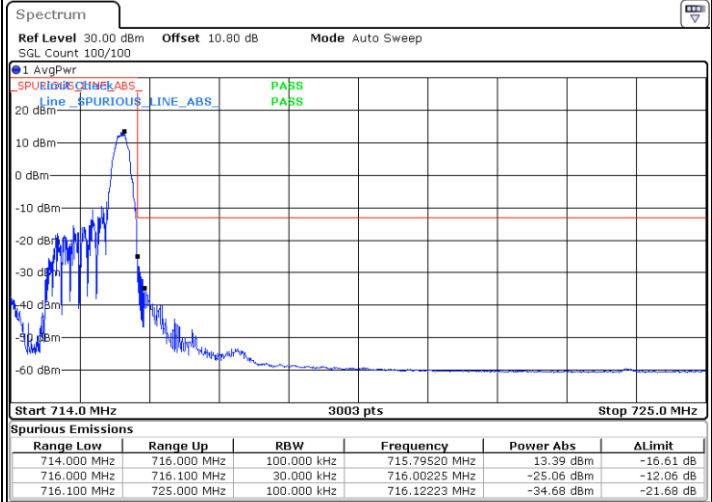
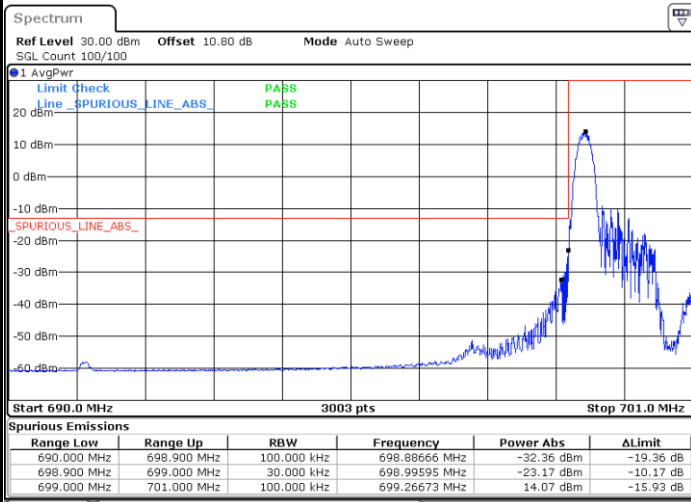




LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

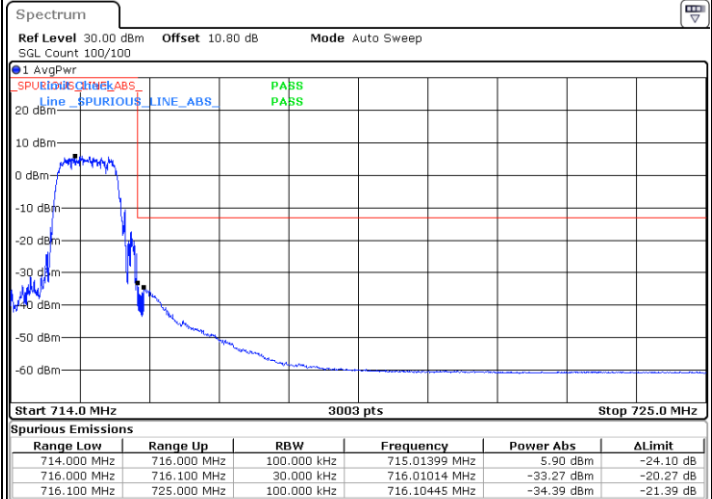
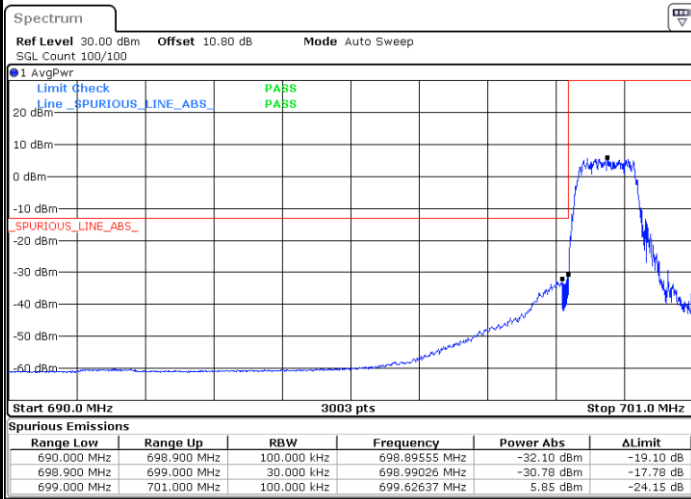


Date: 18.JUL.2020 14:20:27

Date: 18.JUL.2020 14:24:30

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 21.JUL.2020 10:34:32

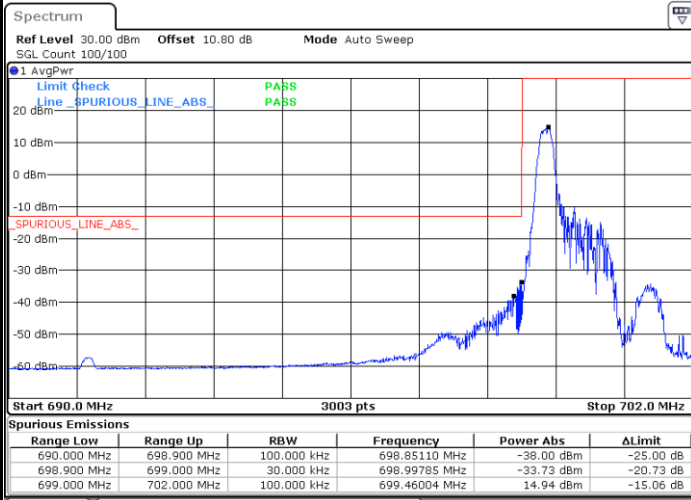
Date: 21.JUL.2020 10:39:34



LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / 1RB

Highest Band Edge / 1 RB

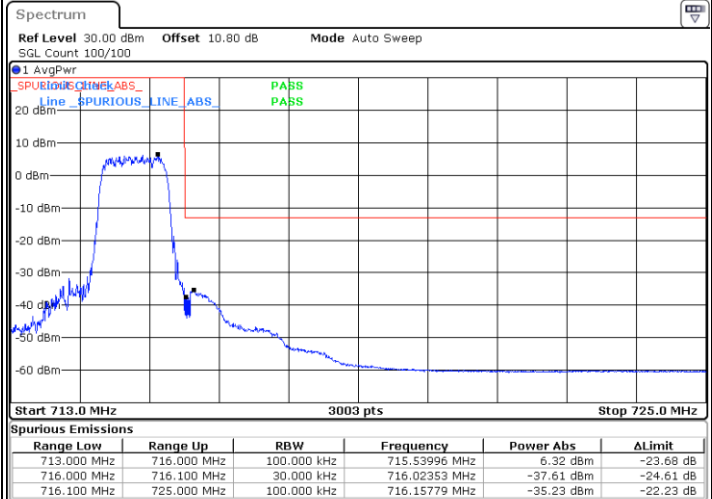
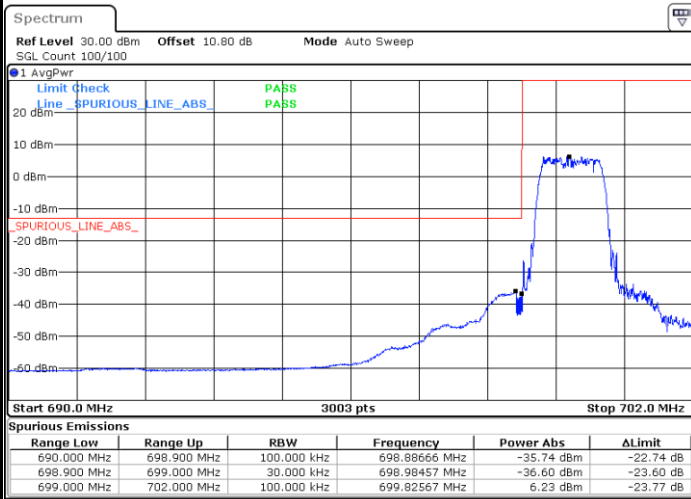


Date: 18.JUL.2020 14:30:32

Date: 18.JUL.2020 14:35:57

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



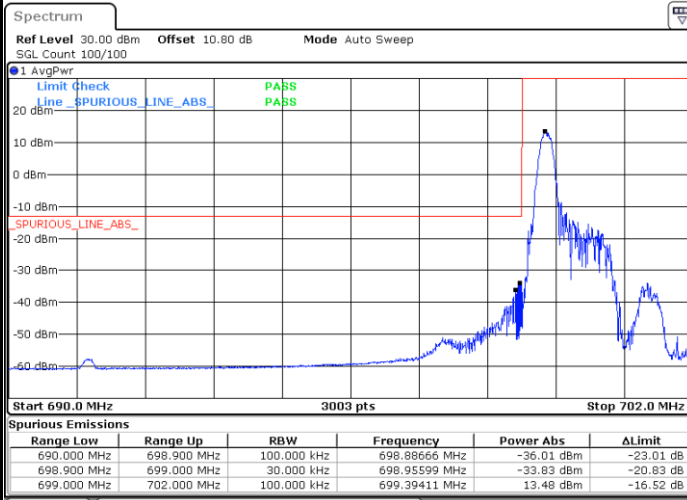
Date: 18.JUL.2020 14:29:39

Date: 18.JUL.2020 14:34:43



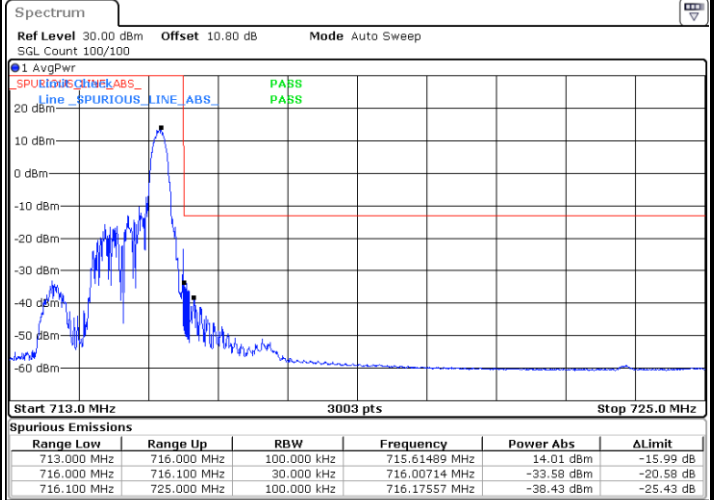
LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



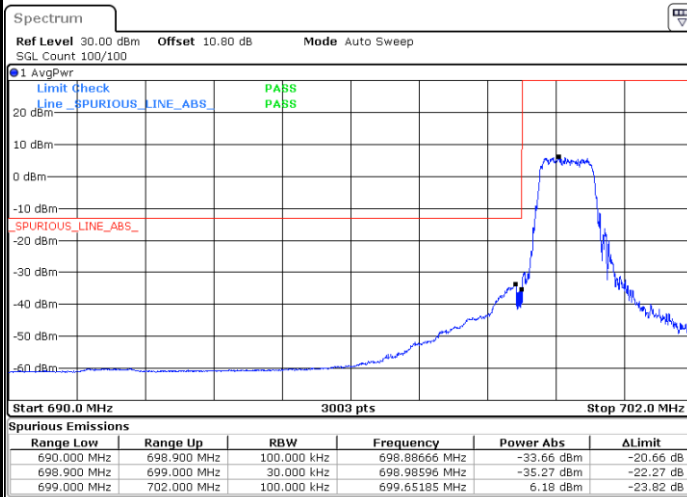
Date: 18.JUL.2020 14:32:59

Highest Band Edge / 1 RB



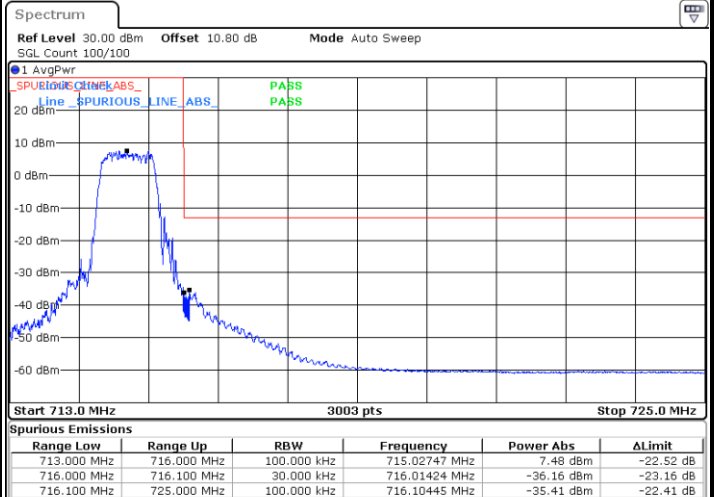
Date: 18.JUL.2020 14:36:35

Lowest Band Edge / Full RB



Date: 21.JUL.2020 10:42:36

Highest Band Edge / Full RB

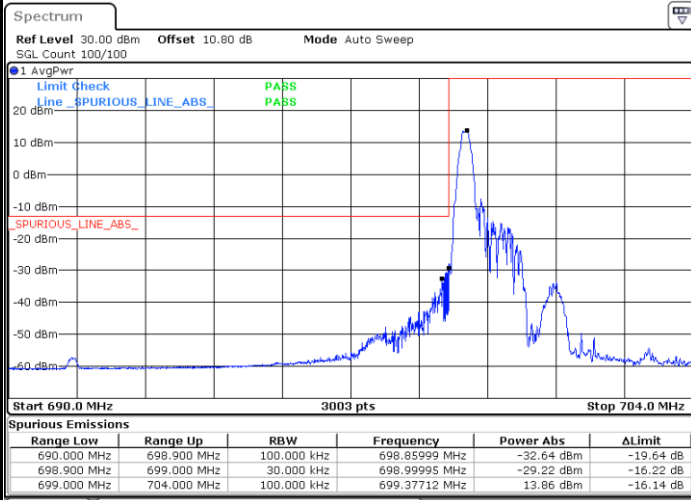


Date: 21.JUL.2020 10:43:38



LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / 1 RB



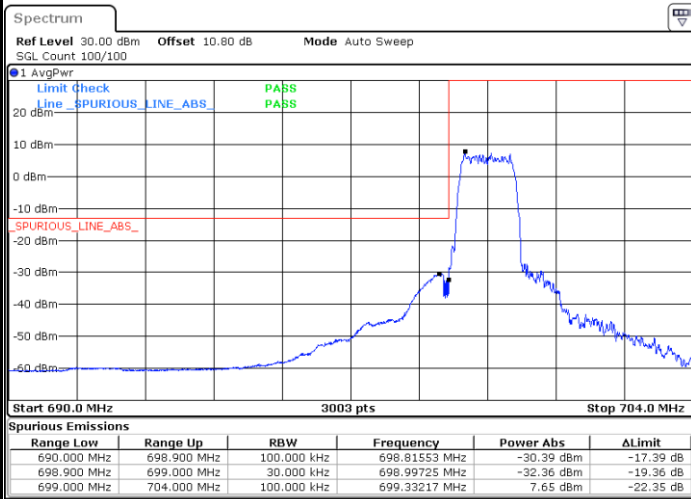
Date: 18.JUL.2020 14:43:55

Highest Band Edge / 1 RB



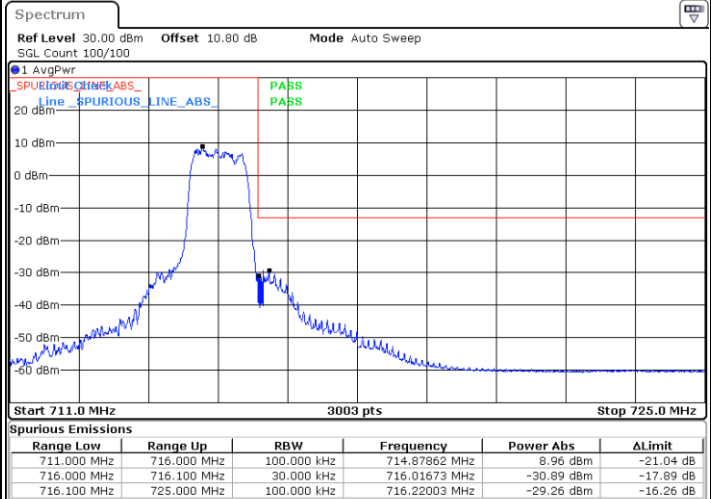
Date: 18.JUL.2020 14:48:20

Lowest Band Edge / Full RB



Date: 18.JUL.2020 14:43:11

Highest Band Edge / Full RB

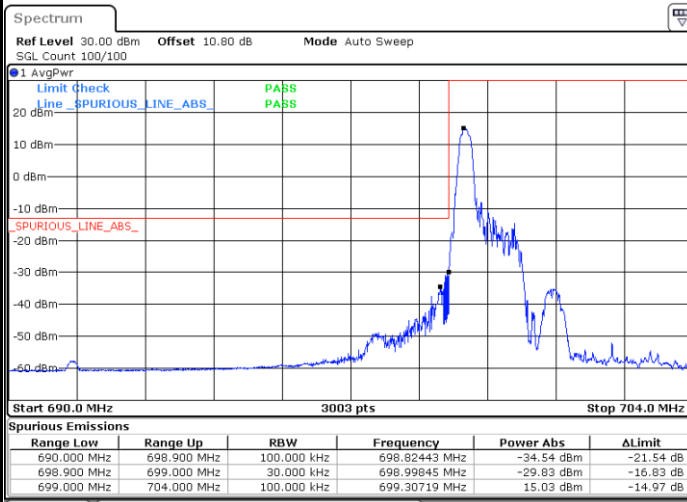


Date: 18.JUL.2020 14:47:07



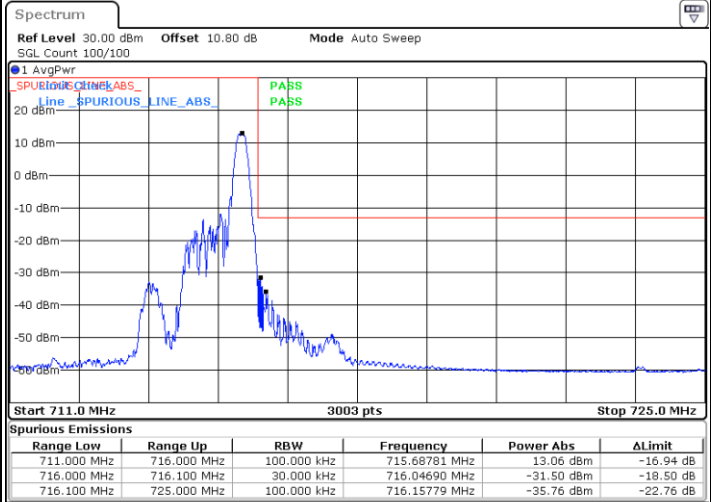
LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / 1RB



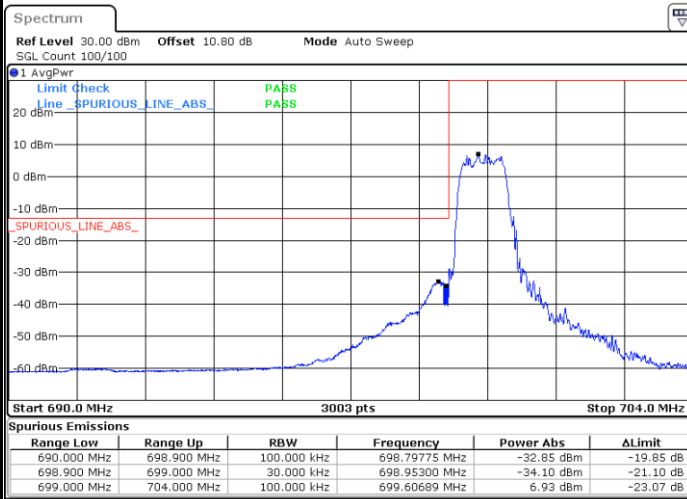
Date: 18.JUL.2020 14:45:09

Highest Band Edge / 1 RB



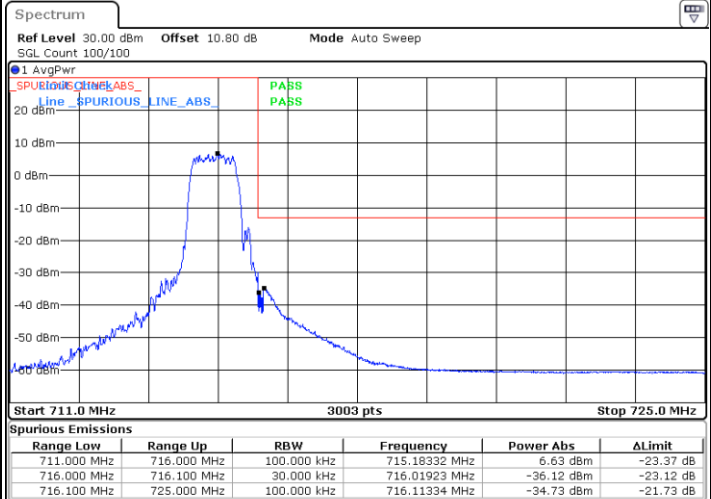
Date: 18.JUL.2020 14:48:58

Lowest Band Edge / Full RB



Date: 21.JUL.2020 11:32:21

Highest Band Edge / Full RB



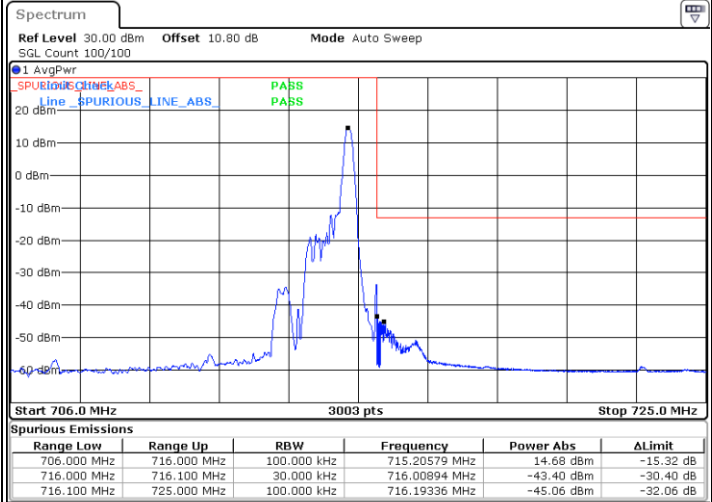
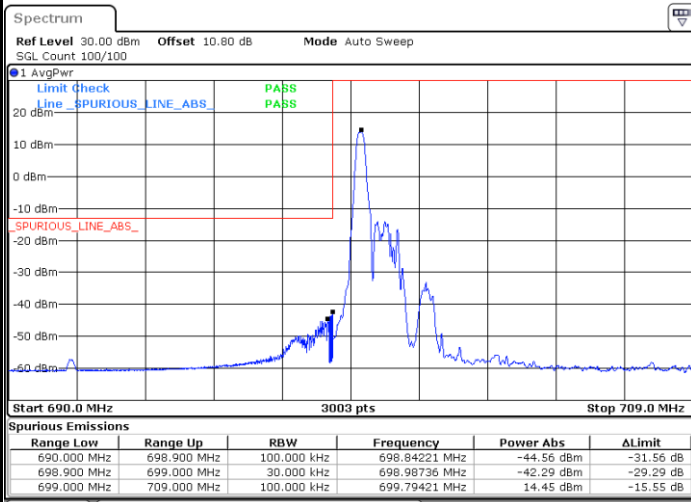
Date: 21.JUL.2020 11:34:11



LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

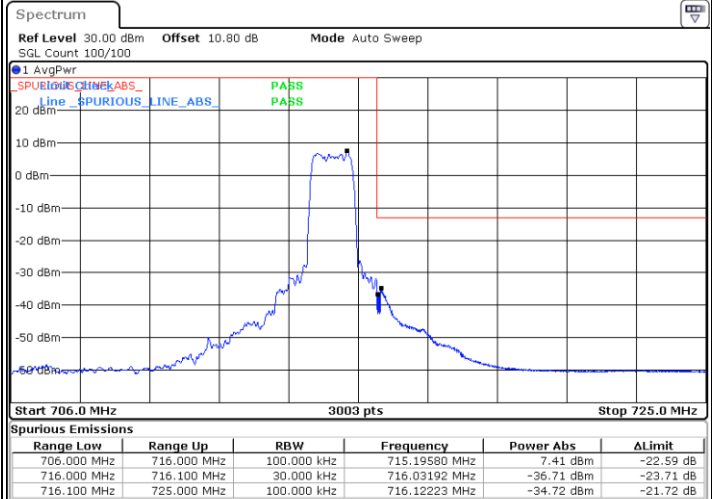
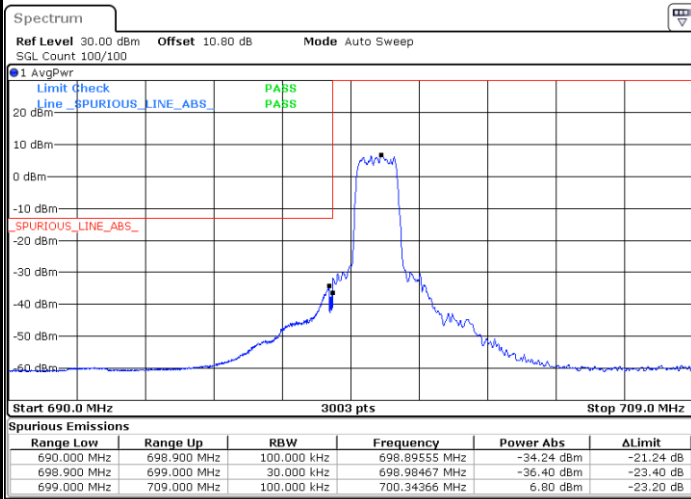


Date: 18.JUL.2020 14:07:02

Date: 18.JUL.2020 14:12:26

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



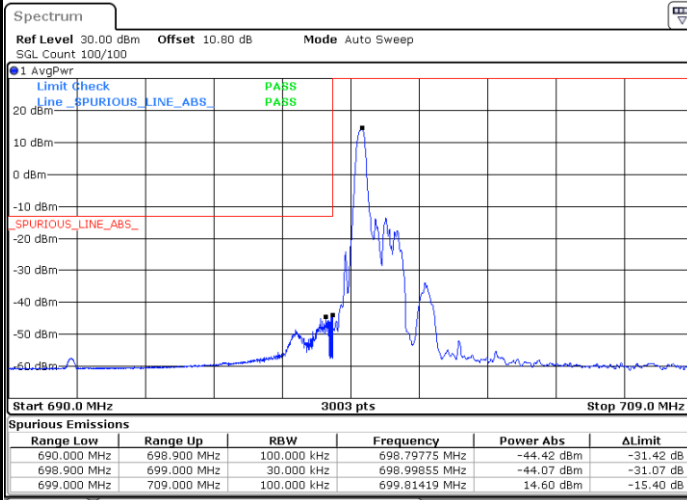
Date: 18.JUL.2020 14:05:57

Date: 18.JUL.2020 14:10:52



LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



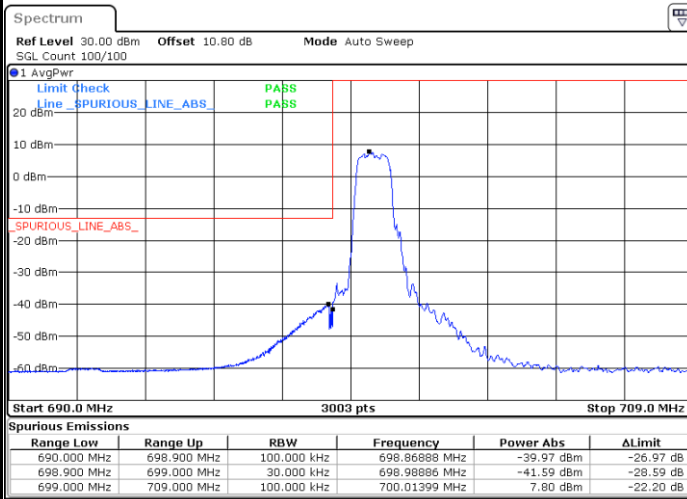
Date: 18.JUL.2020 14:08:58

Highest Band Edge / 1 RB



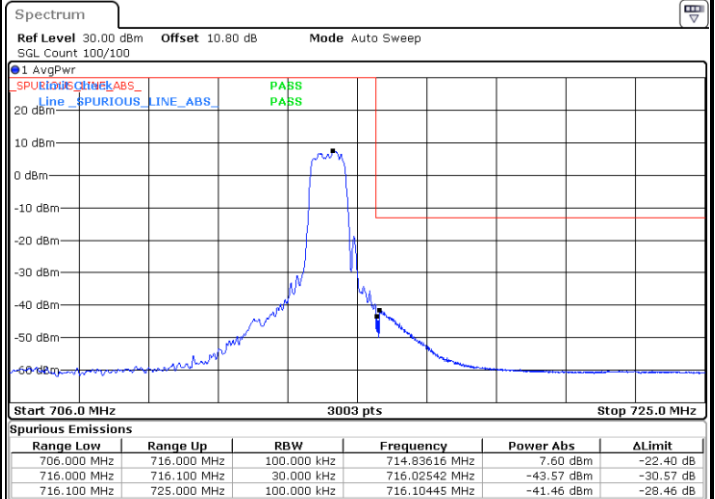
Date: 18.JUL.2020 14:13:32

Lowest Band Edge / Full RB



Date: 21.JUL.2020 11:39:19

Highest Band Edge / Full RB



Date: 21.JUL.2020 11:40:34