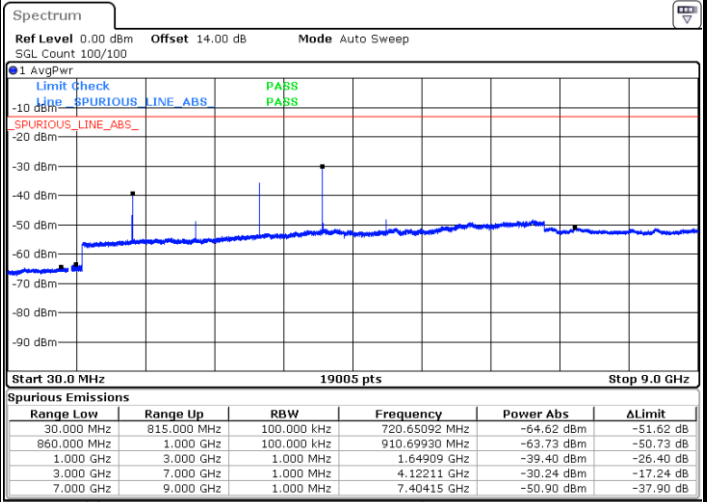
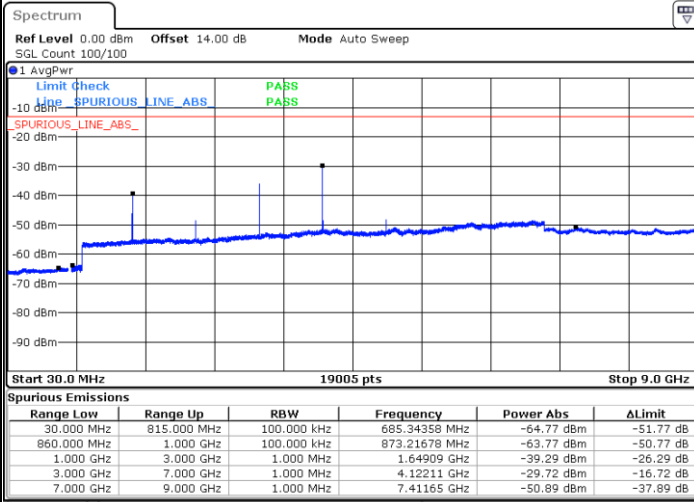




LTE Band 5 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

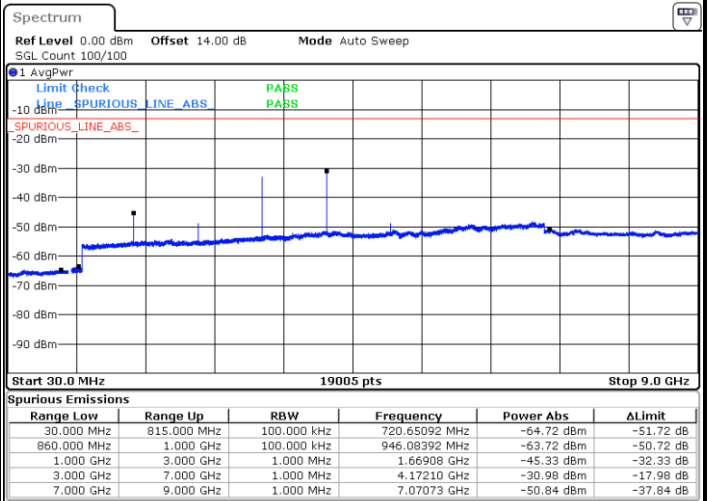
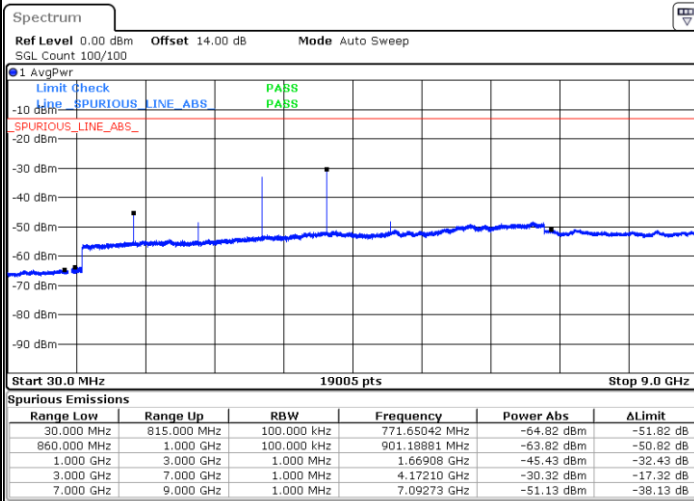


Date: 22 MAR 2020 09:17:30

Date: 22 MAR 2020 09:18:29

Middle Channel / QPSK

Middle Channel / 16QAM



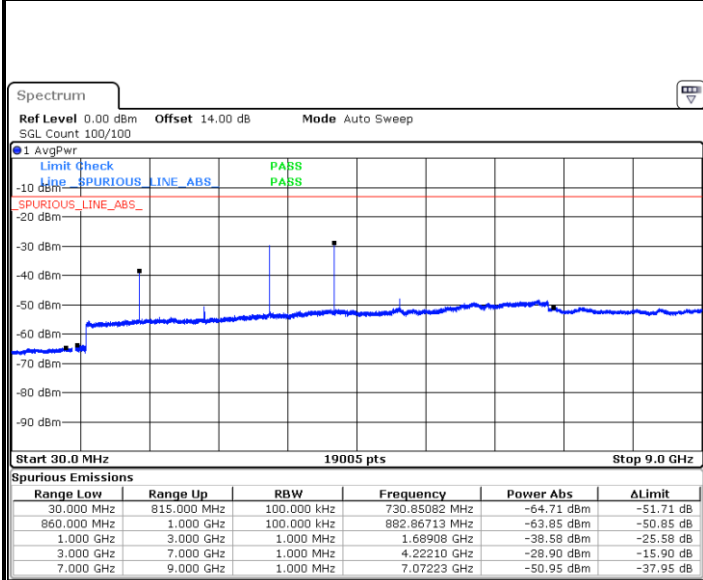
Date: 22 MAR 2020 09:20:12

Date: 22 MAR 2020 09:21:11



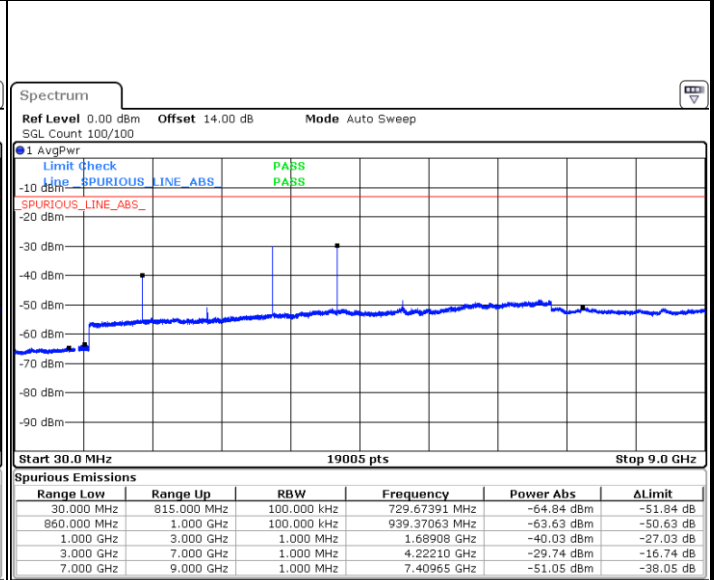
LTE Band 5 / 5MHz

Highest Channel / QPSK



Date: 22 MAR 2020 09:29:30

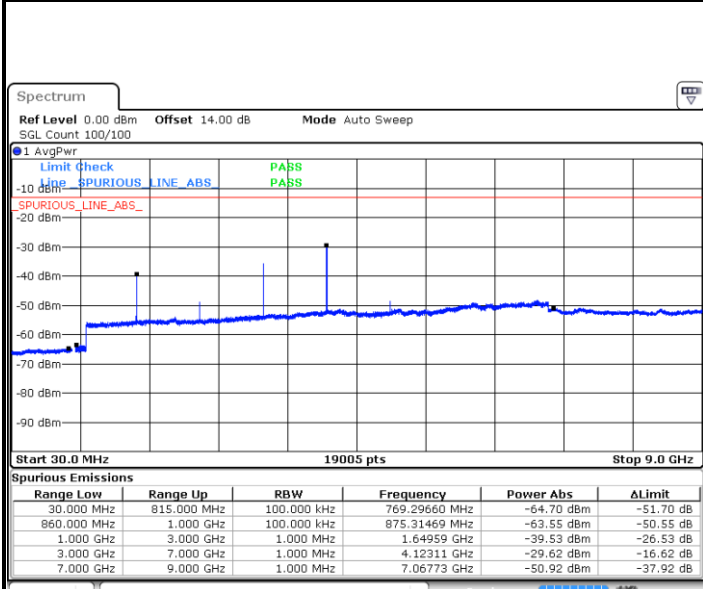
Highest Channel / 16QAM



Date: 22 MAR 2020 09:30:29

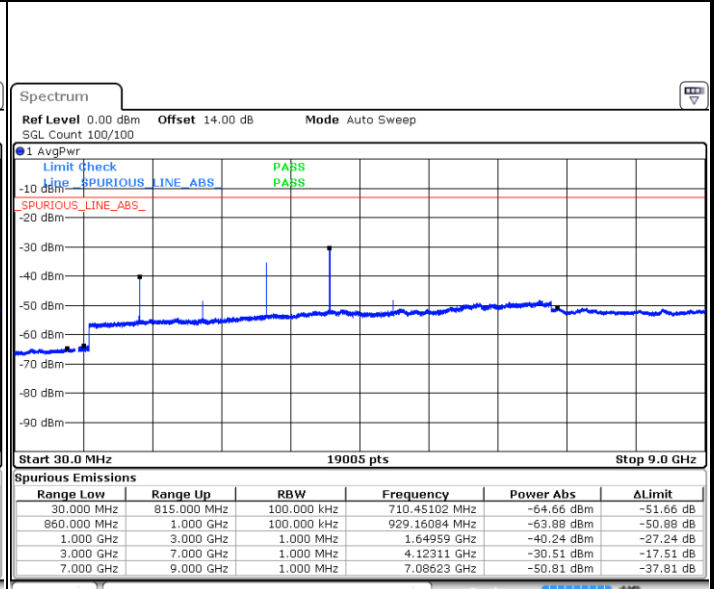
LTE Band 5 / 10MHz

Lowest Channel / QPSK



Date: 22 MAR 2020 09:38:47

Lowest Channel / 16QAM



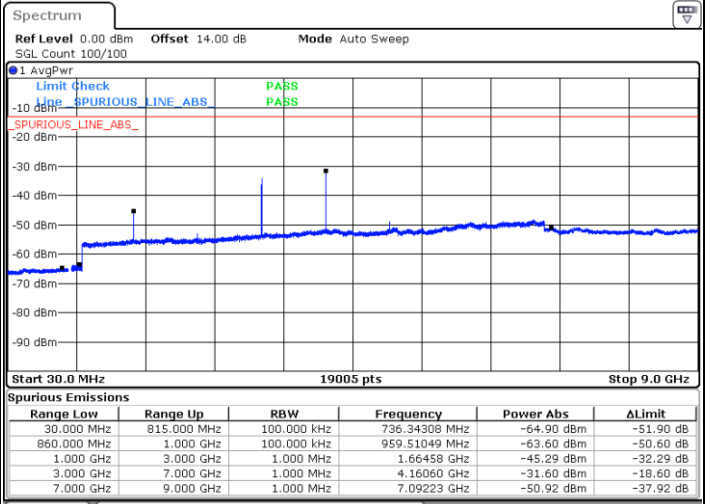
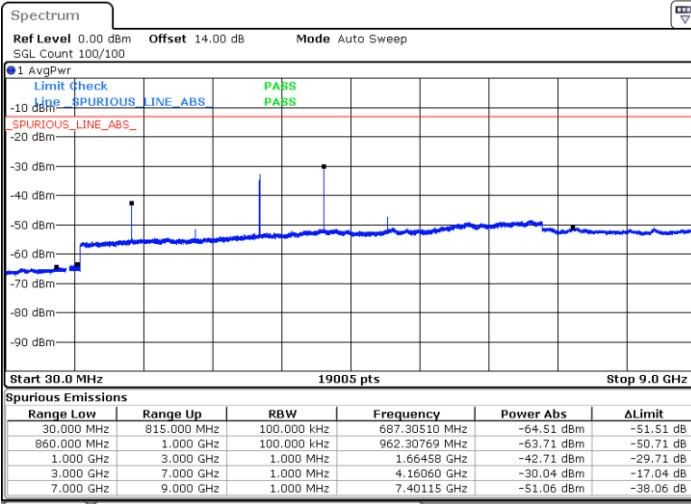
Date: 22 MAR 2020 09:39:46



LTE Band 5 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

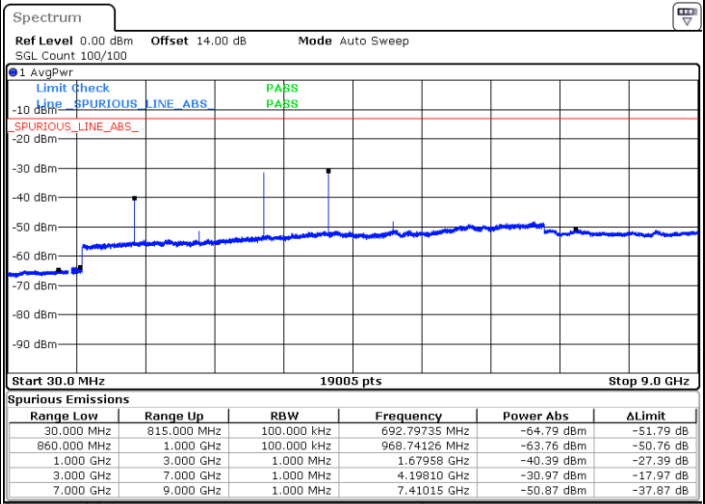
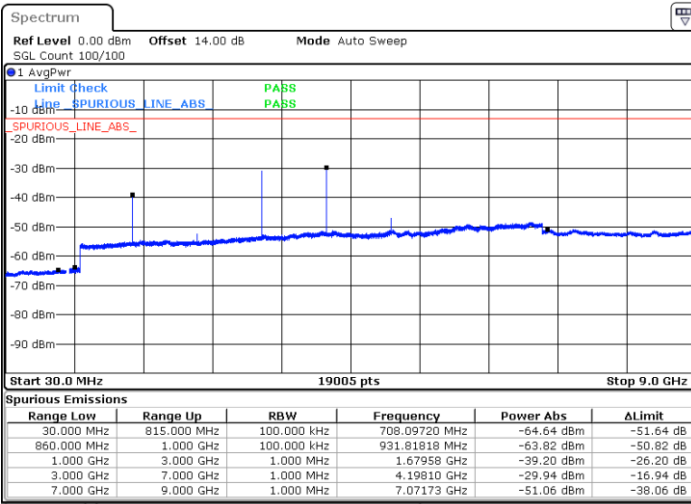


Date: 22 MAR 2020 09:41:29

Date: 22 MAR 2020 09:42:28

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 22 MAR 2020 09:50:46

Date: 22 MAR 2020 09:51:46



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	0.0017	PASS
40	Normal Voltage	0.0022	
30	Normal Voltage	0.0011	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0005	
0	Normal Voltage	0.0007	
-10	Normal Voltage	0.0020	
-20	Normal Voltage	0.0018	
-30	Normal Voltage	0.0012	
20	Maximum Voltage	0.0025	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0022	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.35 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 12

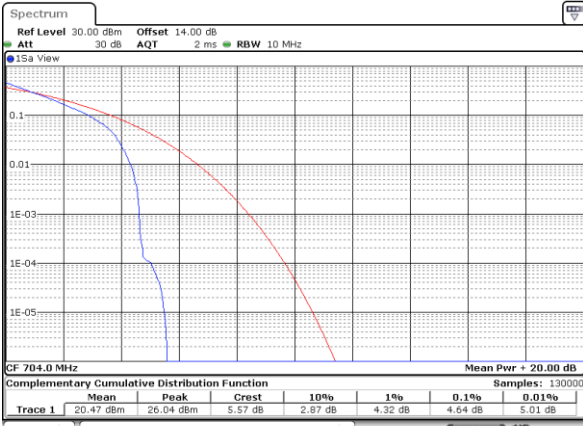
Peak-to-Average Ratio

Mode	LTE Band 12 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.64	5.62	5.68	6.43	PASS
Middle CH	4.52	5.62	6.26	6.32	
Highest CH	4.99	5.36	6.23	6.23	



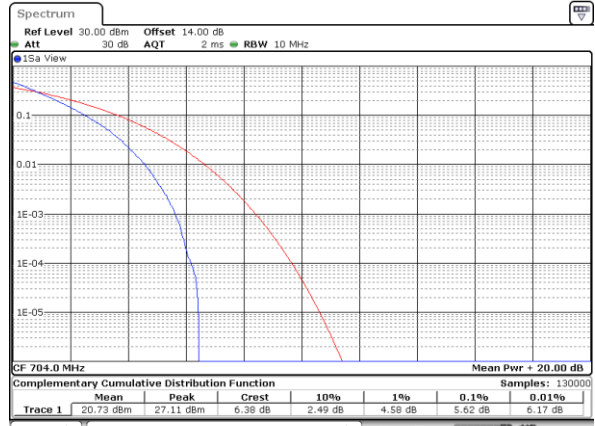
LTE Band 12 / 10MHz / QPSK

Lowest Channel / 1RB



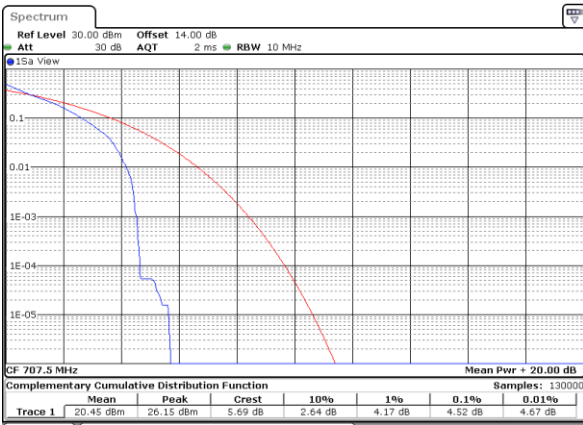
Date: 22.MAR.2020 03:47:19

Lowest Channel / Full RB



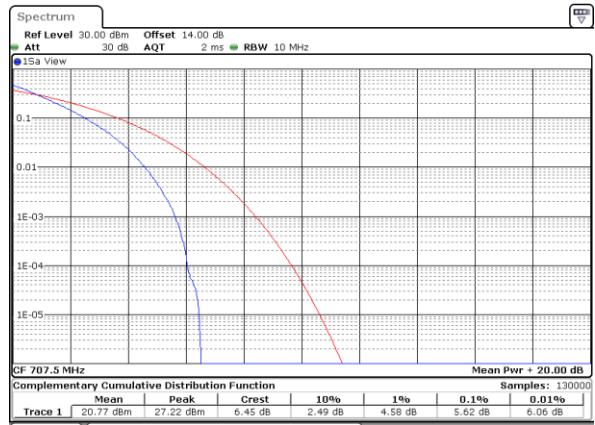
Date: 22.MAR.2020 03:47:08

Middle Channel / 1RB



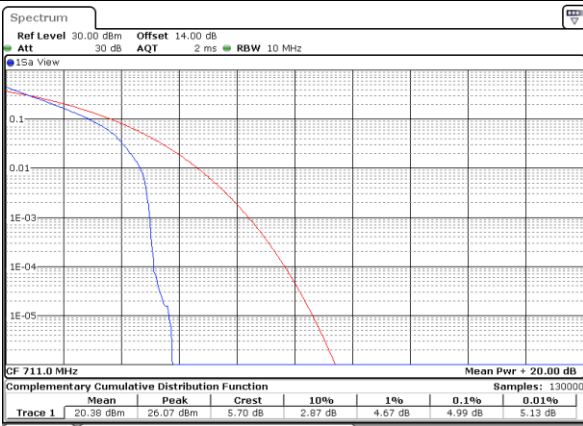
Date: 22.MAR.2020 03:47:29

Middle Channel / Full RB



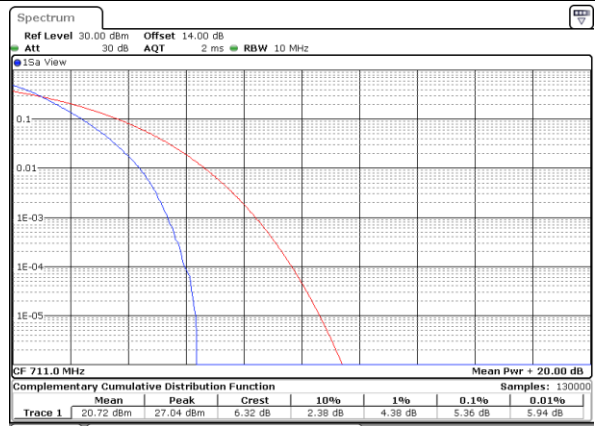
Date: 22.MAR.2020 03:47:39

Highest Channel / 1RB



Date: 22.MAR.2020 03:47:59

Highest Channel / Full RB

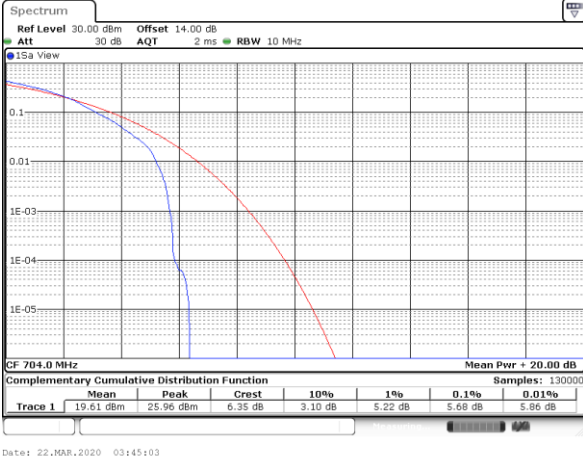


Date: 22.MAR.2020 03:47:49



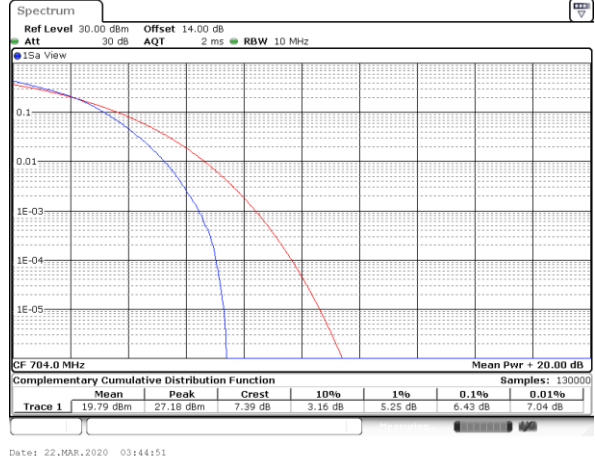
LTE Band 12 / 10MHz / 16QAM

Lowest Channel / 1RB



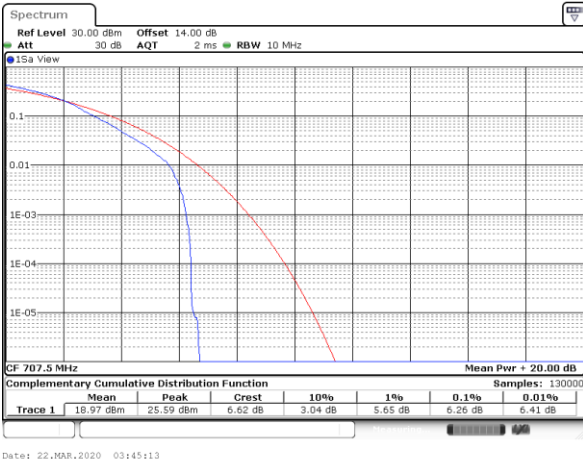
Date: 22.MAR.2020 03:45:03

Lowest Channel / Full RB



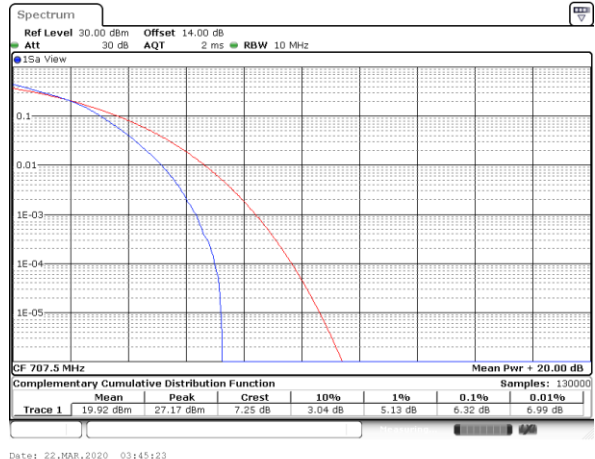
Date: 22.MAR.2020 03:44:51

Middle Channel / 1RB



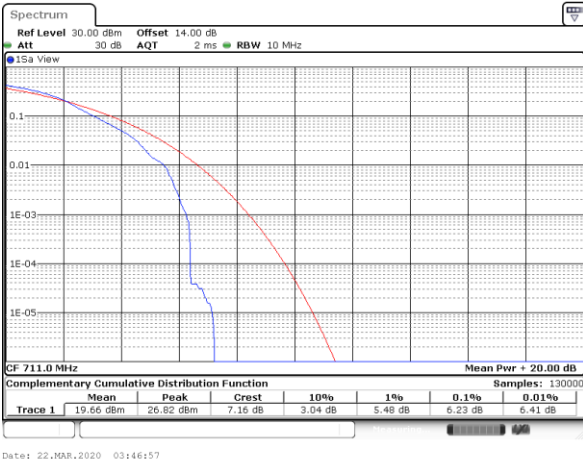
Date: 22.MAR.2020 03:45:13

Middle Channel / Full RB



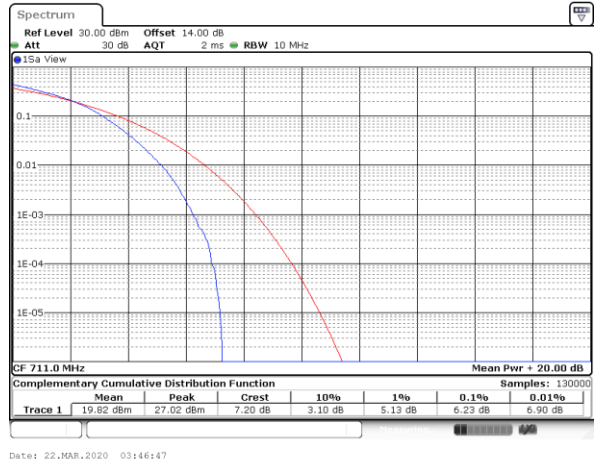
Date: 22.MAR.2020 03:45:23

Highest Channel / 1RB



Date: 22.MAR.2020 03:46:57

Highest Channel / Full RB



Date: 22.MAR.2020 03:46:47



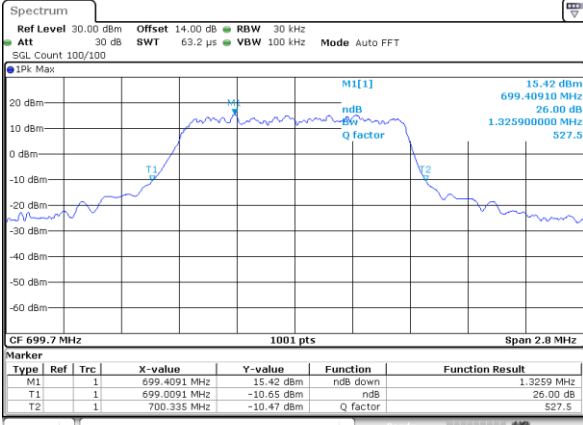
26dB Bandwidth

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
Lowest CH	1.33	1.31	3.13	3.08	5	4.96	9.85	9.63	-	-	-	-
Middle CH	1.28	1.26	3.1	3.05	4.87	4.98	9.85	9.81	-	-	-	-
Highest CH	1.24	1.29	3.09	3.06	4.93	4.97	9.85	9.99	-	-	-	-



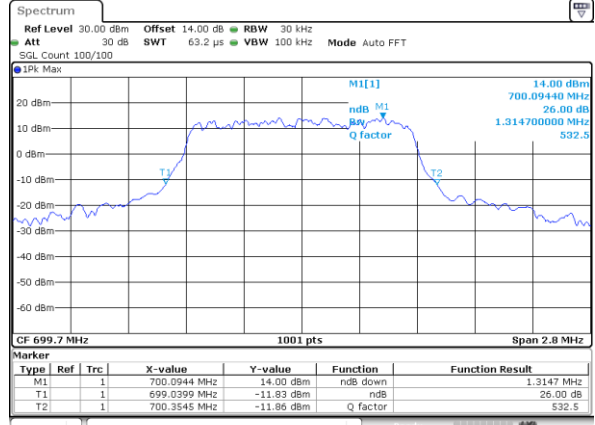
LTE Band 12

Lowest Channel / 1.4MHz / QPSK



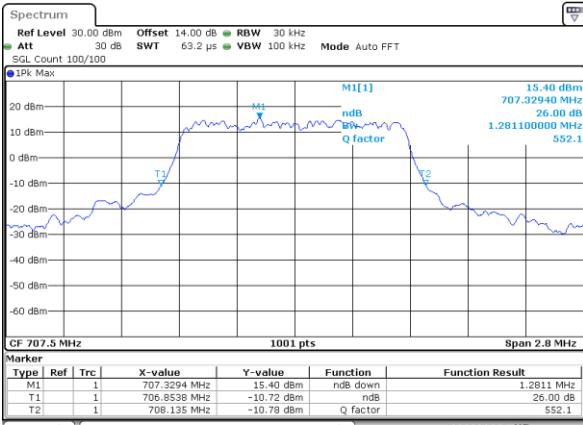
Date: 22_MAR_2020 03:29:33

Lowest Channel / 1.4MHz / 16QAM



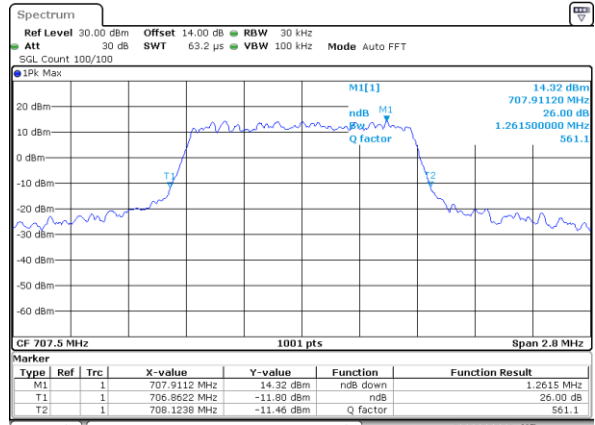
Date: 22_MAR_2020 03:29:22

Middle Channel / 1.4MHz / QPSK



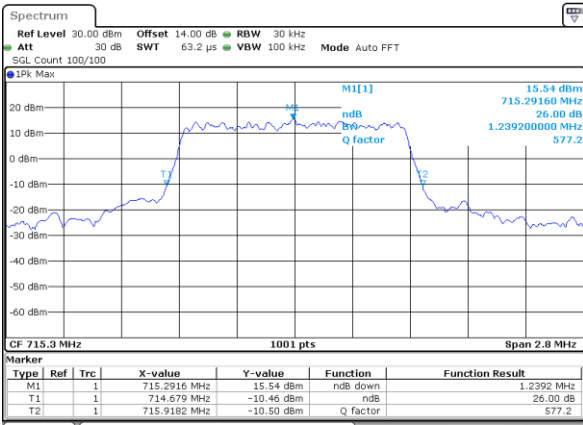
Date: 22_MAR_2020 03:35:29

Middle Channel / 1.4MHz / 16QAM



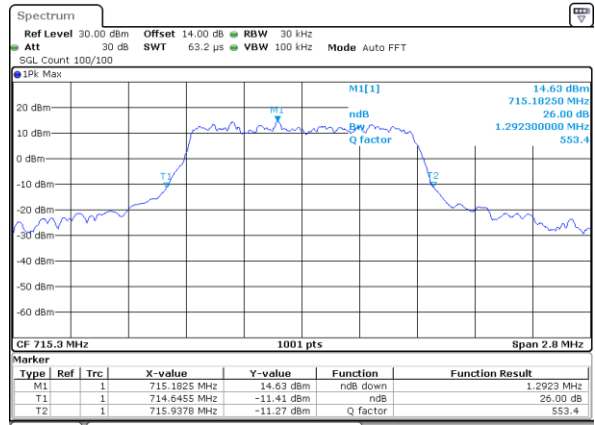
Date: 22_MAR_2020 03:35:40

Highest Channel / 1.4MHz / QPSK



Date: 22_MAR_2020 03:37:48

Highest Channel / 1.4MHz / 16QAM

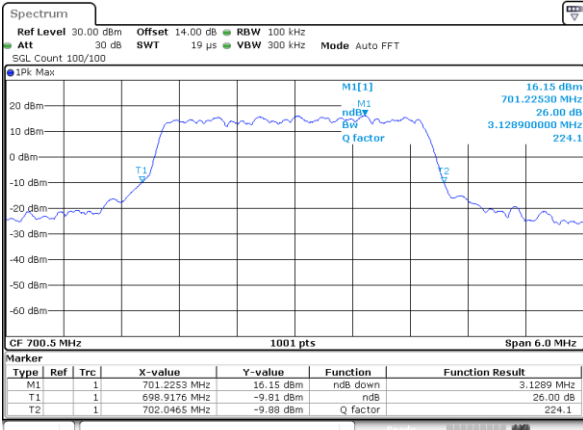


Date: 22_MAR_2020 03:37:37



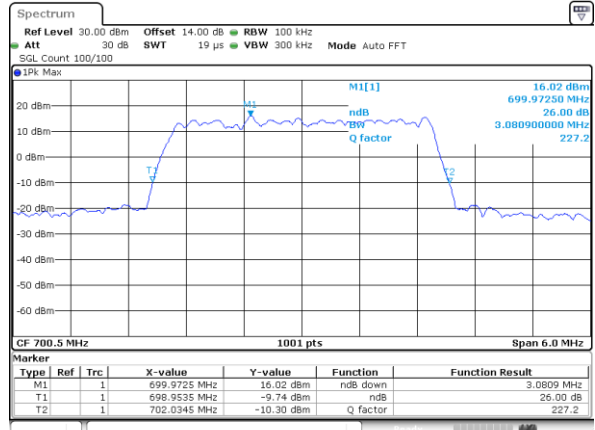
LTE Band 12

Lowest Channel / 3MHz / QPSK



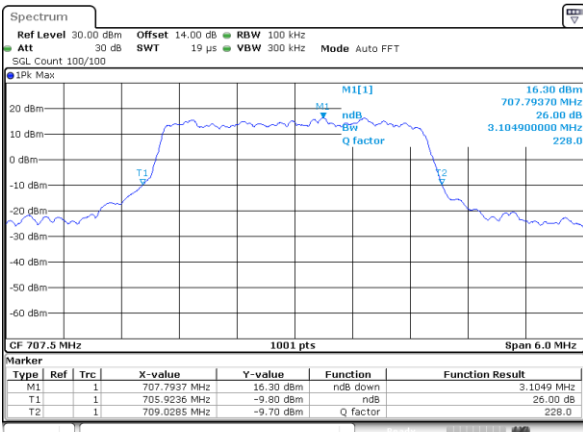
Date: 22_MAR_2020 02:46:24

Lowest Channel / 3MHz / 16QAM



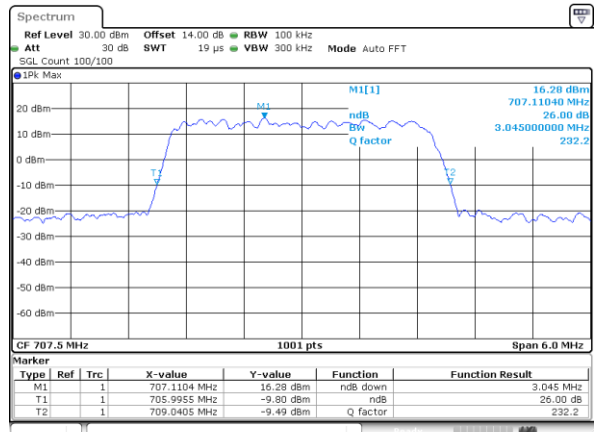
Date: 22_MAR_2020 02:46:13

Middle Channel / 3MHz / QPSK



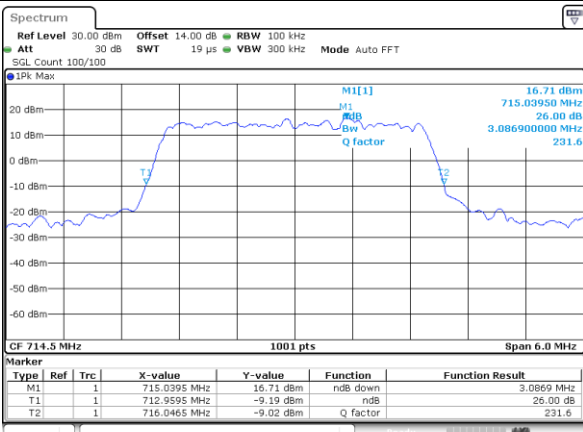
Date: 22_MAR_2020 02:52:21

Middle Channel / 3MHz / 16QAM



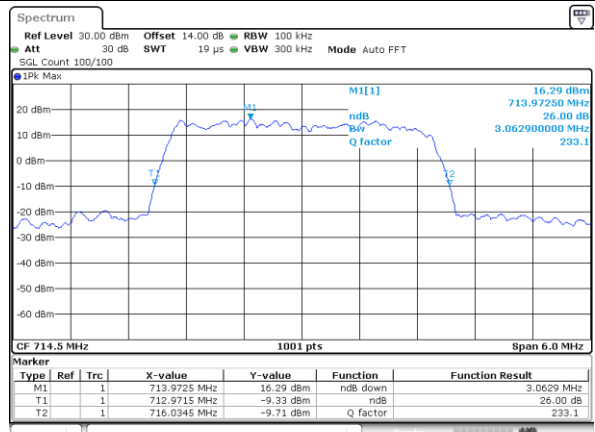
Date: 22_MAR_2020 02:52:32

Highest Channel / 3MHz / QPSK



Date: 22_MAR_2020 02:54:41

Highest Channel / 3MHz / 16QAM

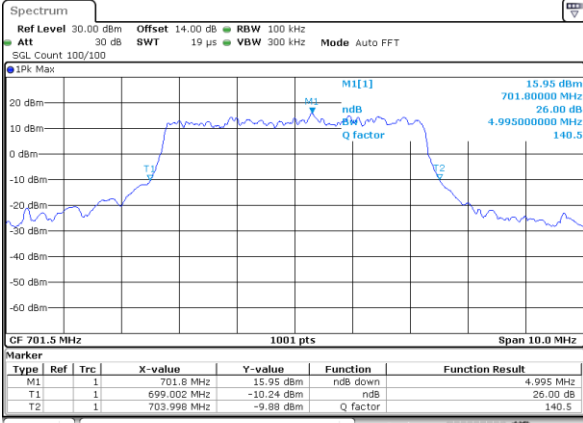


Date: 22_MAR_2020 02:54:30



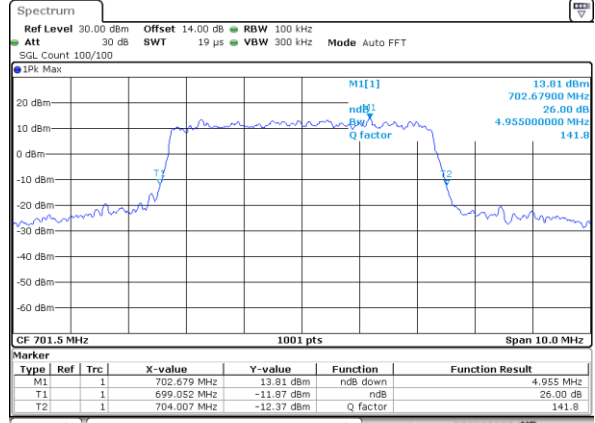
LTE Band 12

Lowest Channel / 5MHz / QPSK



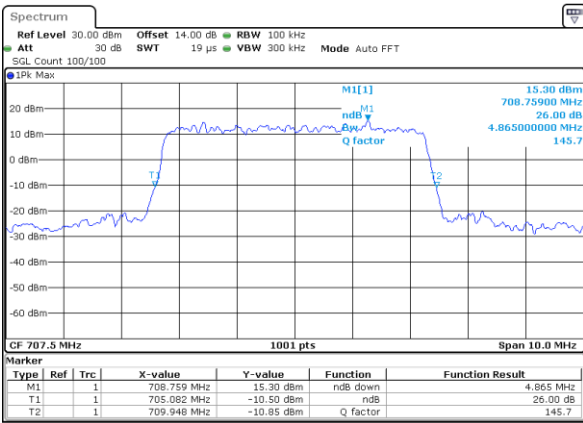
Date: 22_MAR_2020 03:00:48

Lowest Channel / 5MHz / 16QAM



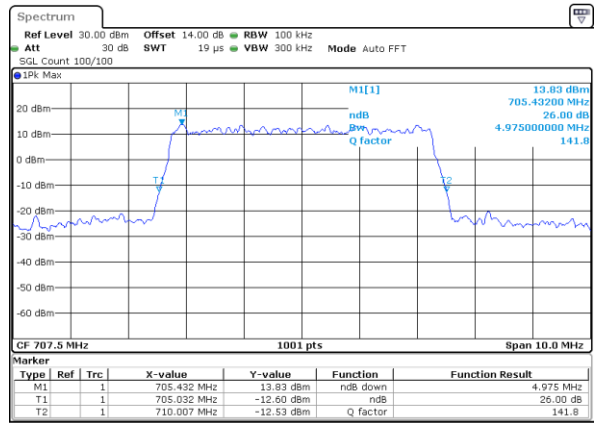
Date: 22_MAR_2020 03:00:37

Middle Channel / 5MHz / QPSK



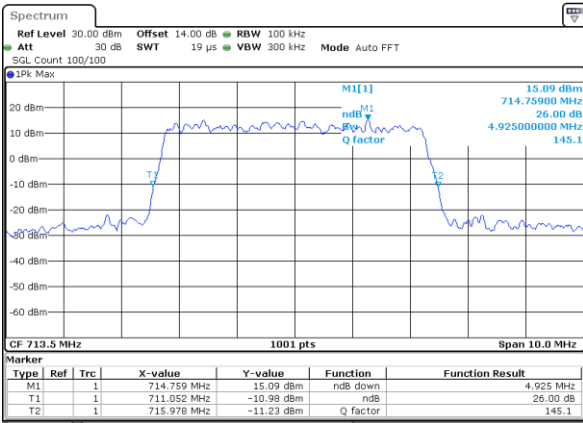
Date: 22_MAR_2020 03:06:45

Middle Channel / 5MHz / 16QAM



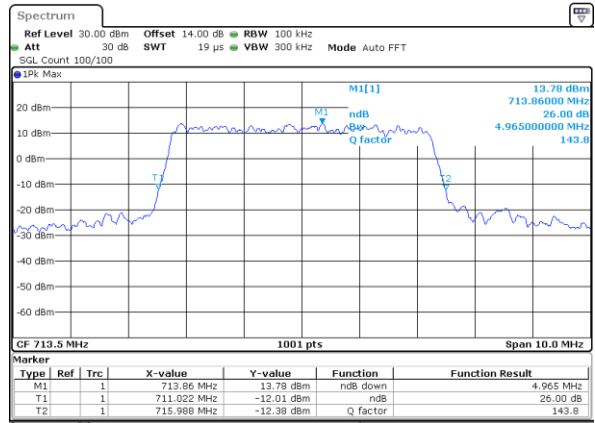
Date: 22_MAR_2020 03:06:56

Highest Channel / 5MHz / QPSK



Date: 22_MAR_2020 03:09:04

Highest Channel / 5MHz / 16QAM

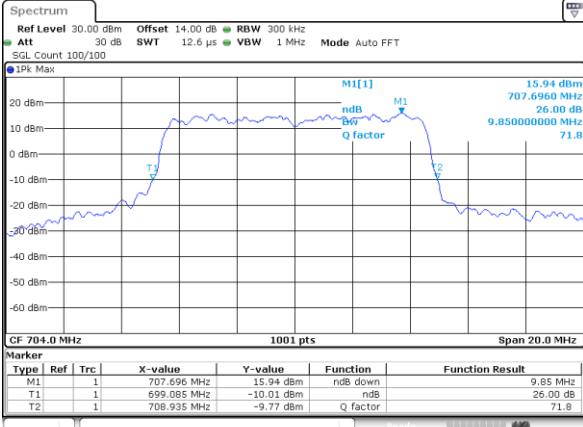


Date: 22_MAR_2020 03:08:53



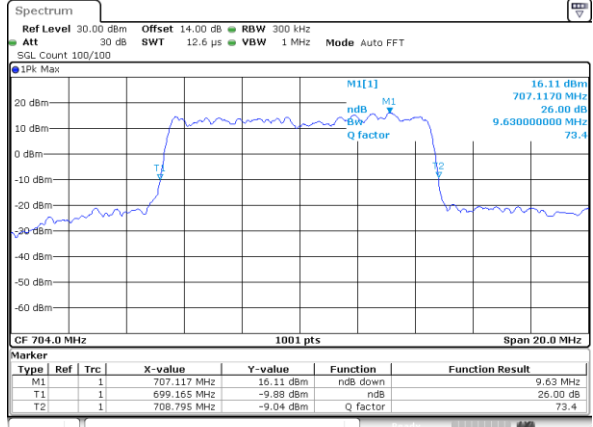
LTE Band 12

Lowest Channel / 10MHz / QPSK



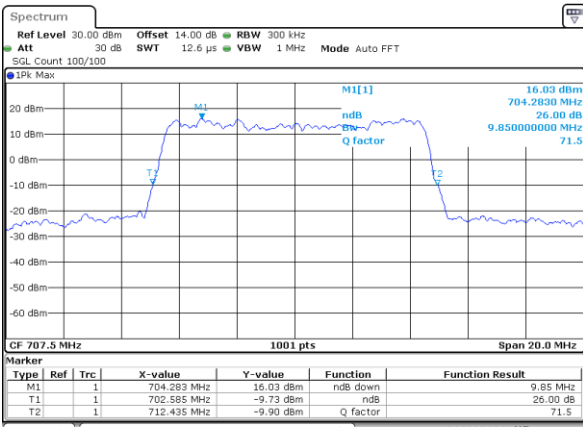
Date: 22_MAR_2020 03:15:11

Lowest Channel / 10MHz / 16QAM



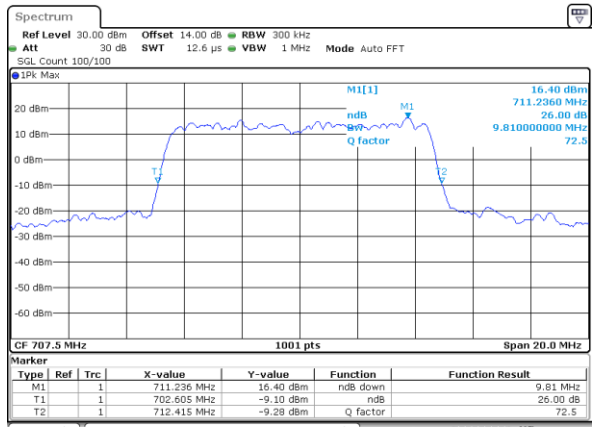
Date: 22_MAR_2020 03:15:00

Middle Channel / 10MHz / QPSK



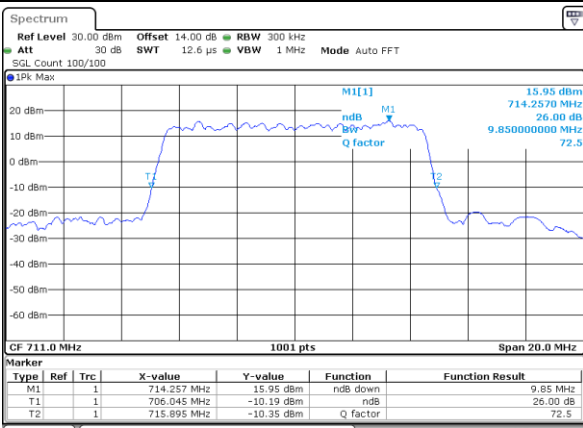
Date: 22_MAR_2020 03:21:07

Middle Channel / 10MHz / 16QAM



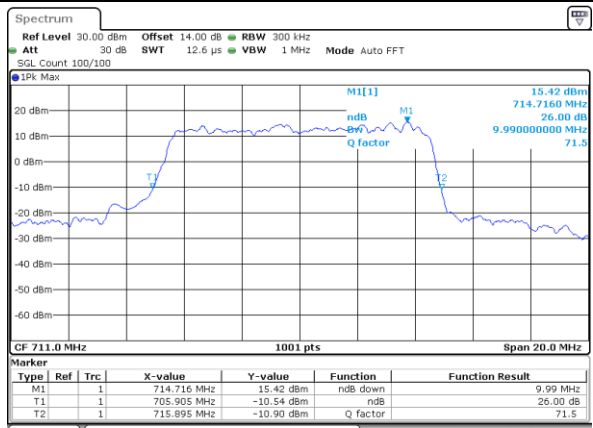
Date: 22_MAR_2020 03:21:18

Highest Channel / 10MHz / QPSK



Date: 22_MAR_2020 03:23:26

Highest Channel / 10MHz / 16QAM



Date: 22_MAR_2020 03:23:15



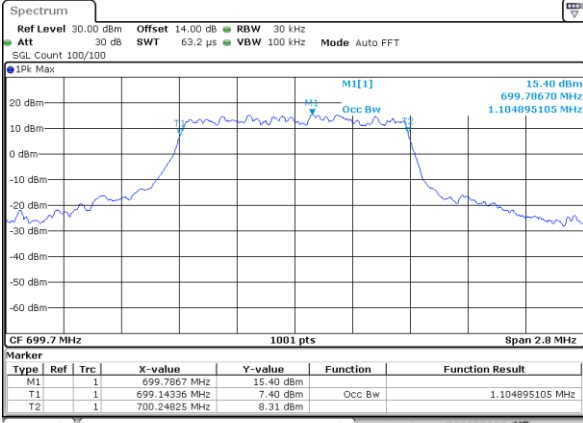
Occupied Bandwidth

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
Lowest CH	1.1	1.09	2.73	2.72	4.51	4.49	9.03	9.05	-	-	-	-
Middle CH	1.1	1.09	2.75	2.73	4.49	4.49	9.03	9.05	-	-	-	-
Highest CH	1.1	1.09	2.73	2.73	4.48	4.49	9.07	8.99	-	-	-	-



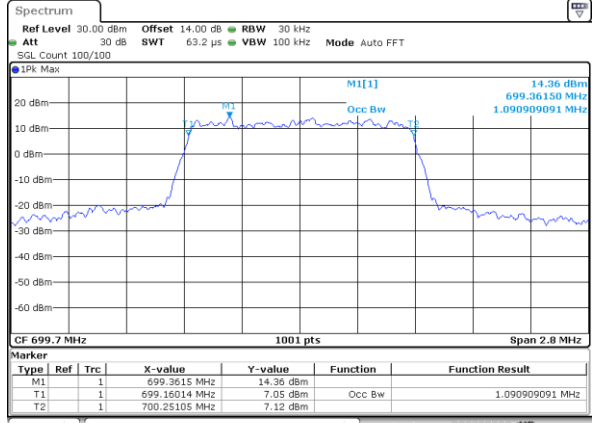
LTE Band 12

Lowest Channel / 1.4MHz / QPSK



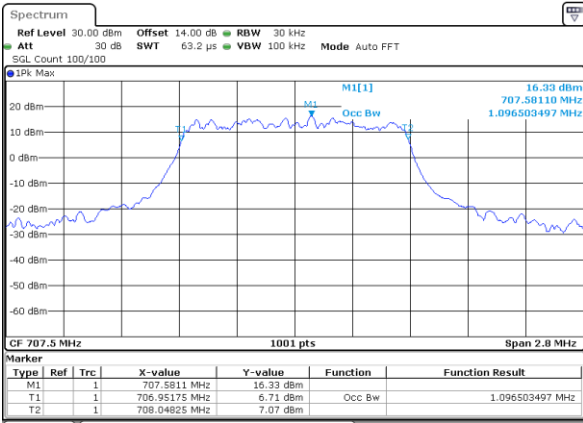
Date: 22.MAR.2020 03:29:00

Lowest Channel / 1.4MHz / 16QAM



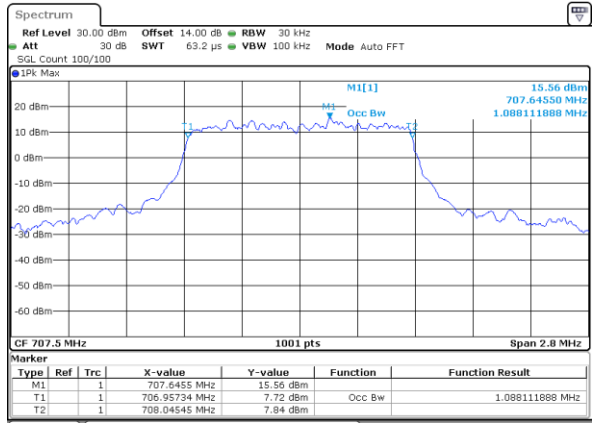
Date: 22.MAR.2020 03:29:11

Middle Channel / 1.4MHz / QPSK



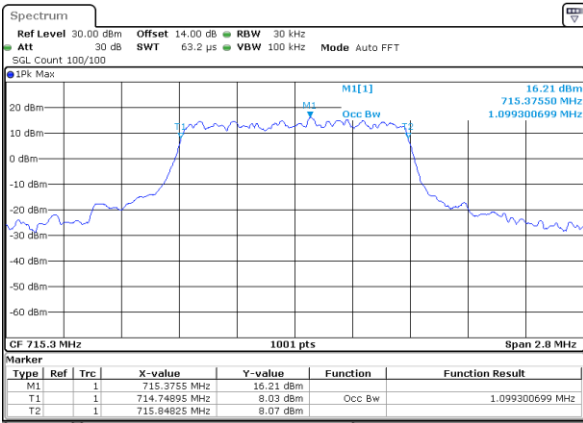
Date: 22.MAR.2020 03:35:18

Middle Channel / 1.4MHz / 16QAM



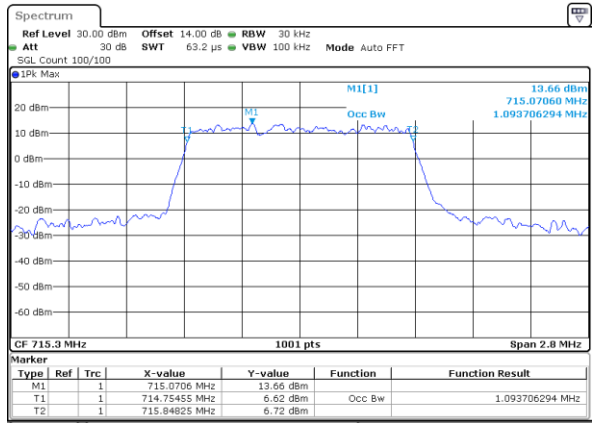
Date: 22.MAR.2020 03:35:07

Highest Channel / 1.4MHz / QPSK



Date: 22.MAR.2020 03:37:15

Highest Channel / 1.4MHz / 16QAM

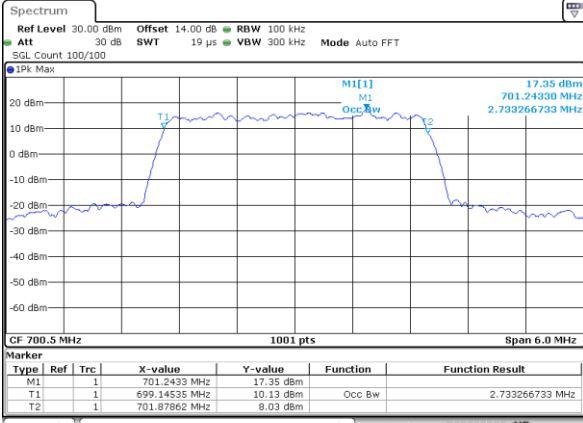


Date: 22.MAR.2020 03:37:26



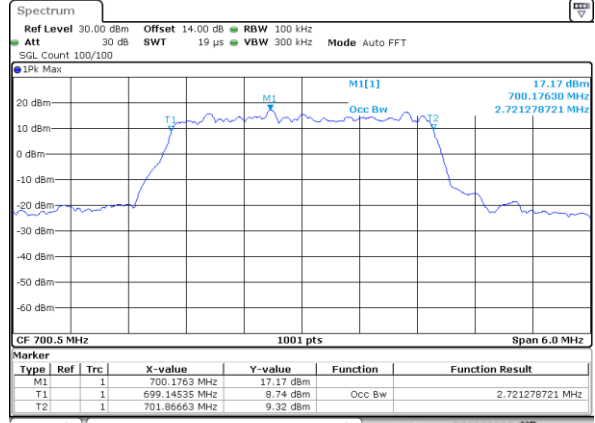
LTE Band 12

Lowest Channel / 3MHz / QPSK



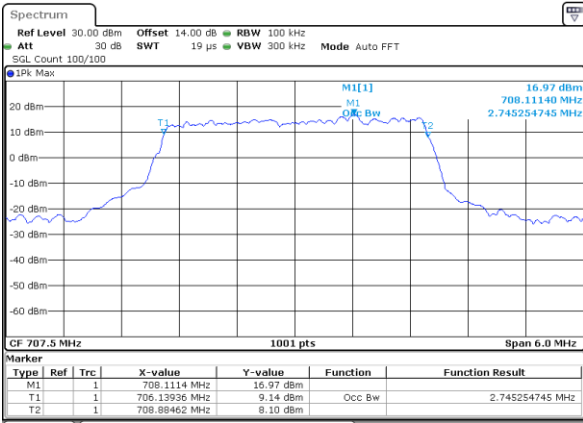
Date: 22.MAR.2020 02:45:51

Lowest Channel / 3MHz / 16QAM



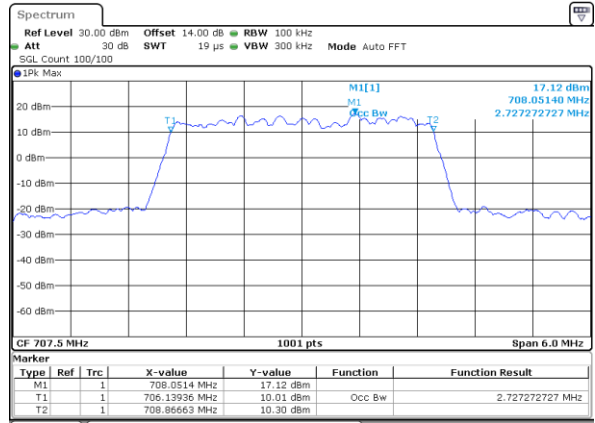
Date: 22.MAR.2020 02:46:03

Middle Channel / 3MHz / QPSK



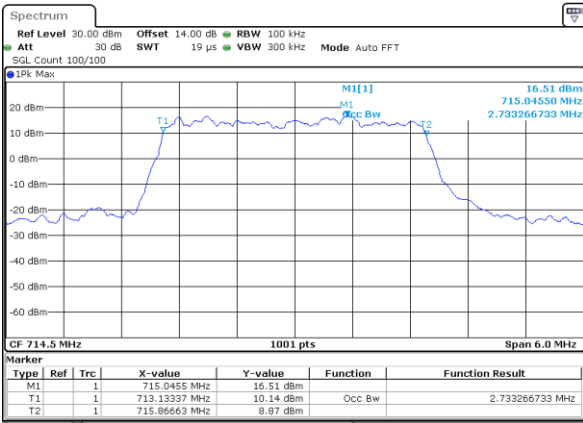
Date: 22.MAR.2020 02:52:10

Middle Channel / 3MHz / 16QAM



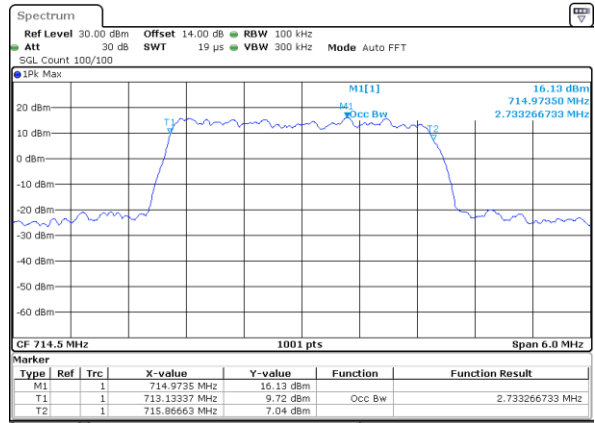
Date: 22.MAR.2020 02:51:59

Highest Channel / 3MHz / QPSK



Date: 22.MAR.2020 02:54:08

Highest Channel / 3MHz / 16QAM

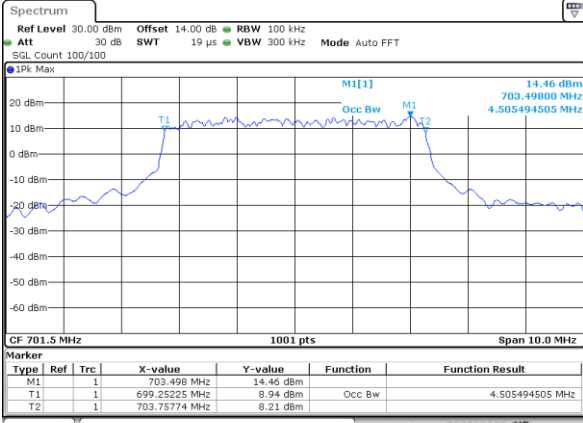


Date: 22.MAR.2020 02:54:19



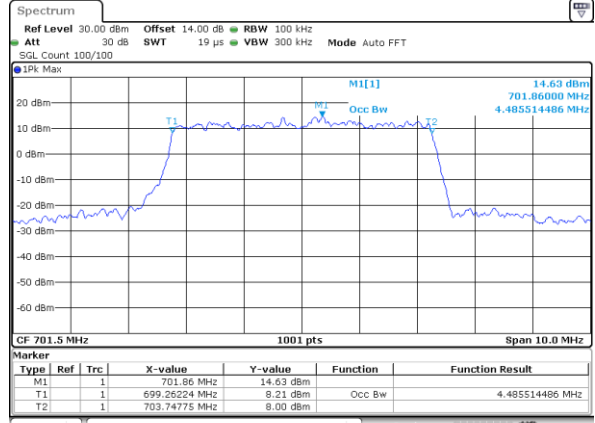
LTE Band 12

Lowest Channel / 5MHz / QPSK



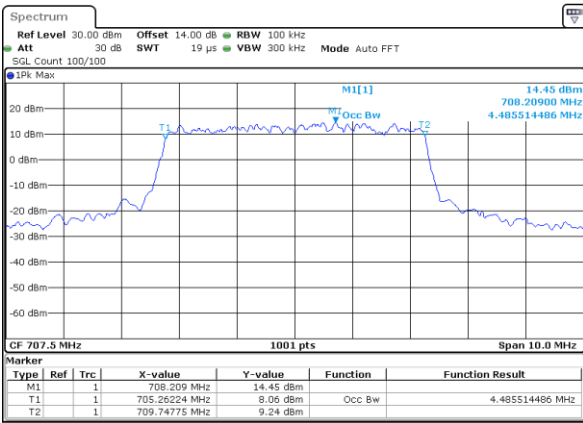
Date: 22_MAR_2020 03:10:15

Lowest Channel / 5MHz / 16QAM



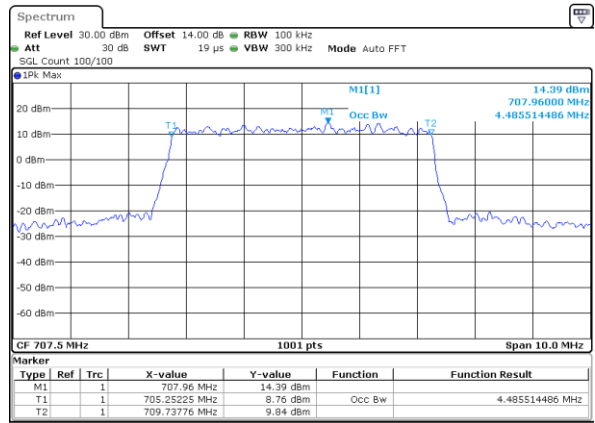
Date: 22_MAR_2020 03:10:26

Middle Channel / 5MHz / QPSK



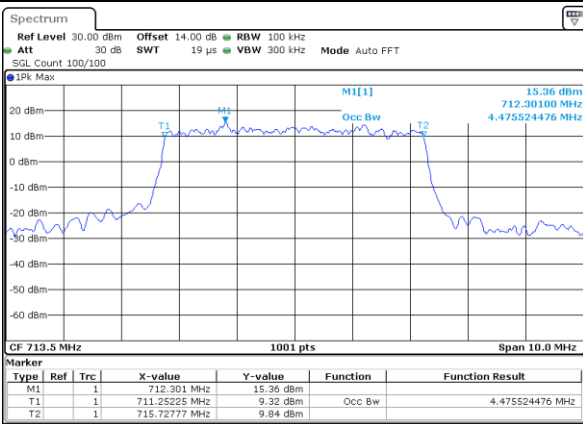
Date: 22_MAR_2020 03:10:34

Middle Channel / 5MHz / 16QAM



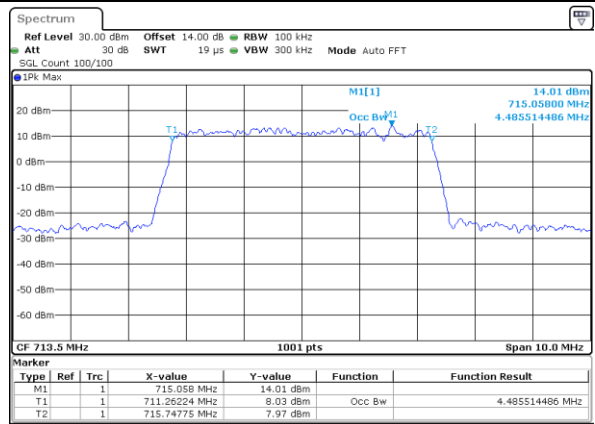
Date: 22_MAR_2020 03:10:23

Highest Channel / 5MHz / QPSK



Date: 22_MAR_2020 03:10:30

Highest Channel / 5MHz / 16QAM

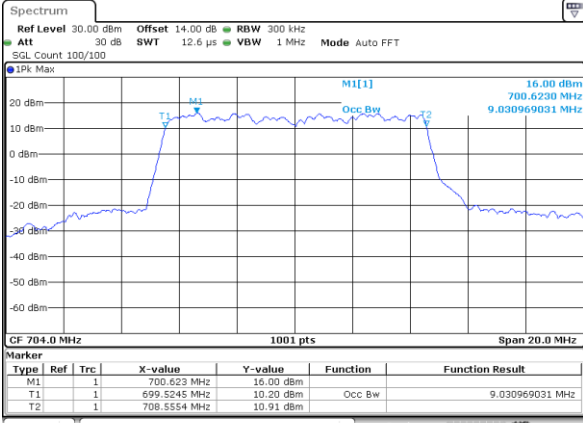


Date: 22_MAR_2020 03:10:42



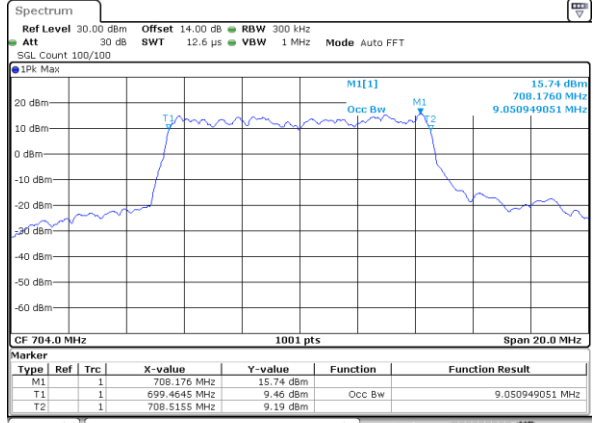
LTE Band 12

Lowest Channel / 10MHz / QPSK



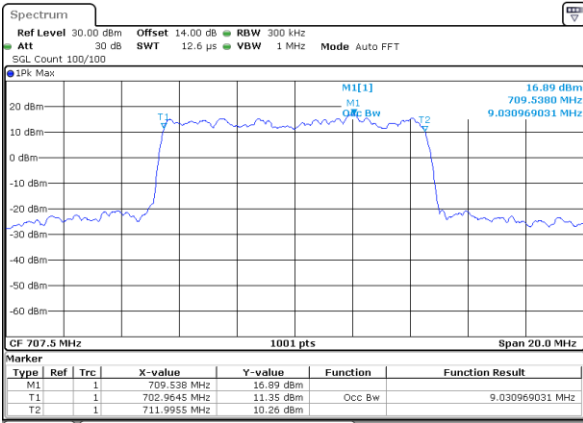
Date: 22_MAR_2020 03:14:38

Lowest Channel / 10MHz / 16QAM



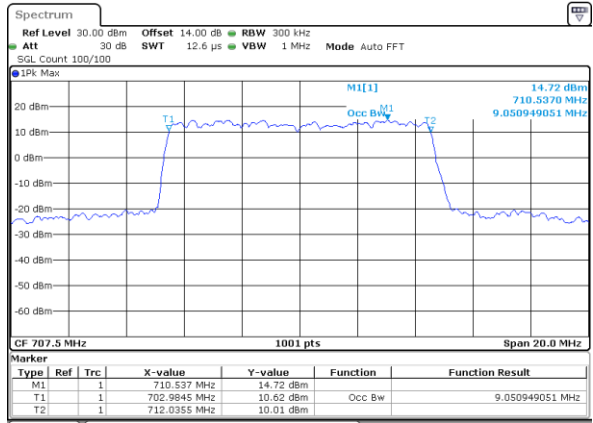
Date: 22_MAR_2020 03:14:49

Middle Channel / 10MHz / QPSK



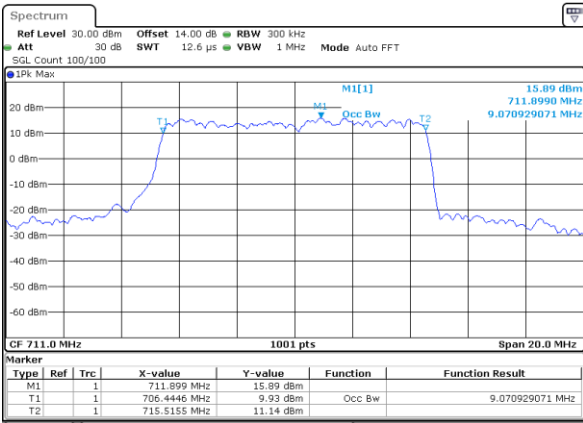
Date: 22_MAR_2020 03:20:56

Middle Channel / 10MHz / 16QAM



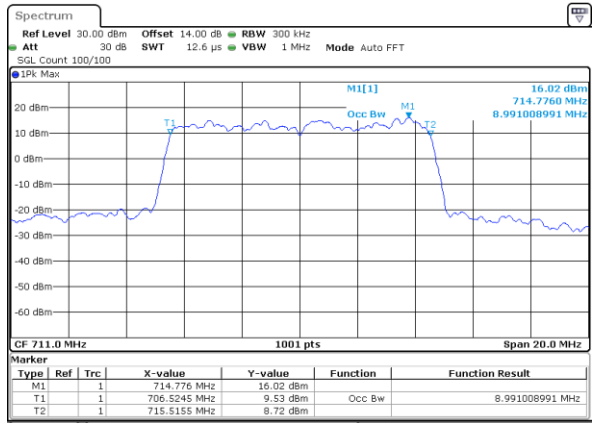
Date: 22_MAR_2020 03:20:45

Highest Channel / 10MHz / QPSK



Date: 22_MAR_2020 03:22:53

Highest Channel / 10MHz / 16QAM



Date: 22_MAR_2020 03:23:04



Conducted Band Edge



LTE Band 12 / 1.4MHz / QPSK

Lowest Band Edge / 1 RB



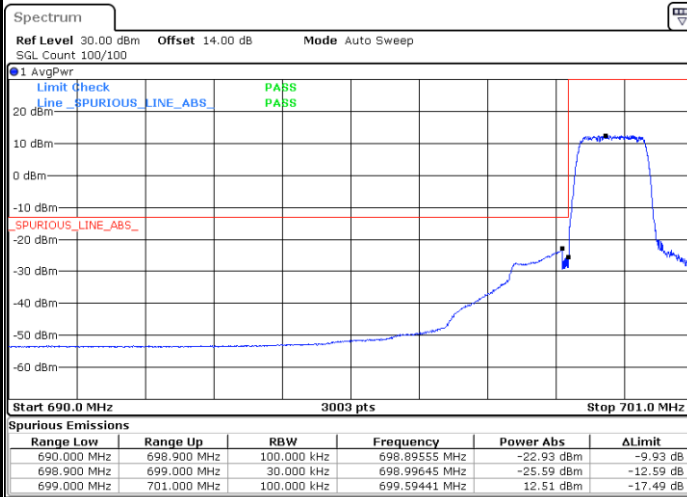
Date: 22.MAR.2020 03:33:32

Highest Band Edge / 1RB



Date: 22.MAR.2020 03:41:47

Lowest Band Edge / Full RB



Date: 22.MAR.2020 03:30:32

Highest Band Edge / Full RB

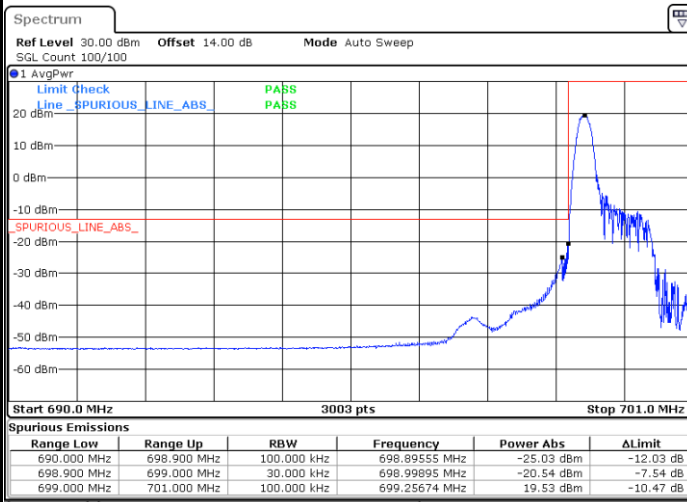


Date: 22.MAR.2020 03:38:48



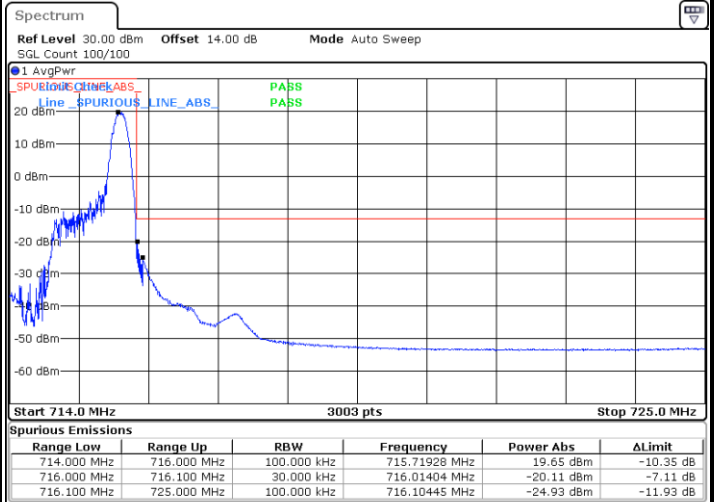
LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



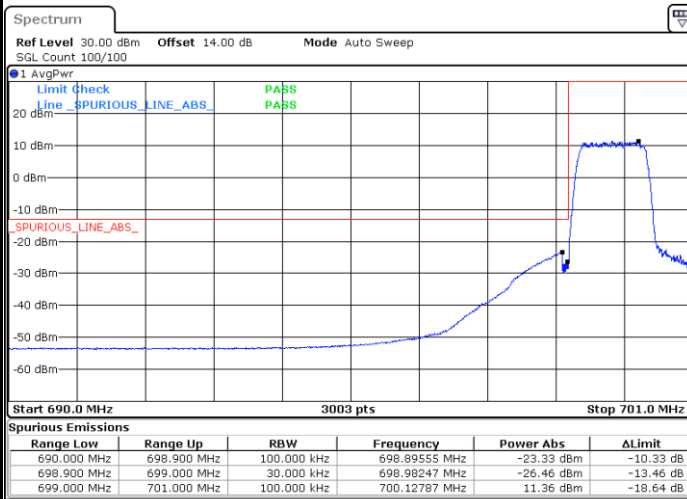
Date: 22.MAR.2020 03:32:32

Highest Band Edge / 1 RB



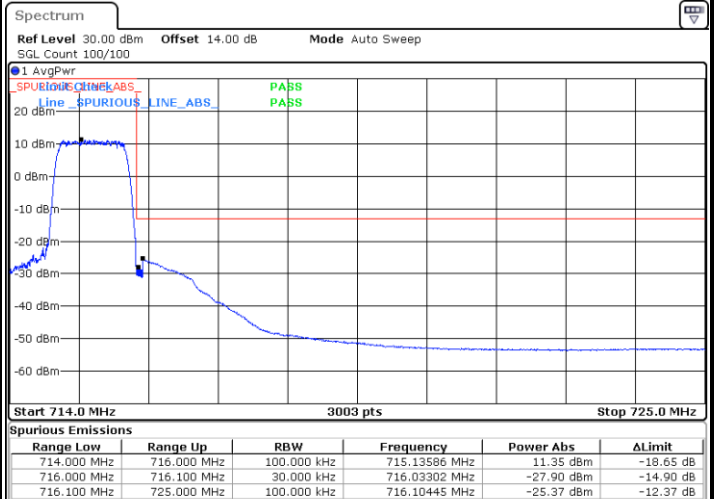
Date: 22.MAR.2020 03:40:47

Lowest Band Edge / Full RB



Date: 22.MAR.2020 03:31:32

Highest Band Edge / Full RB

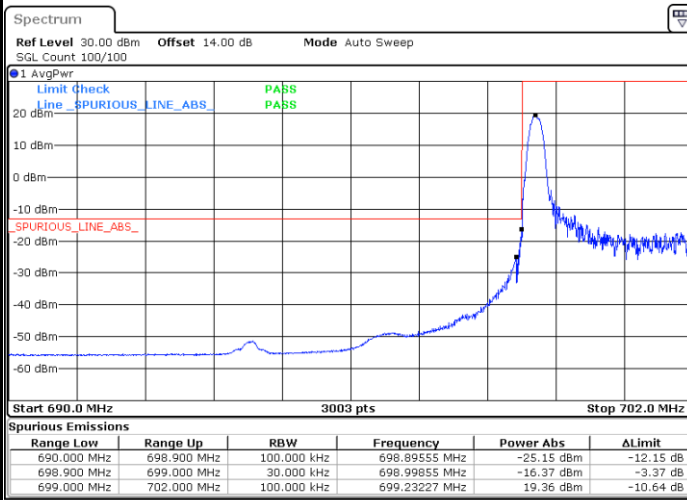


Date: 22.MAR.2020 03:39:47



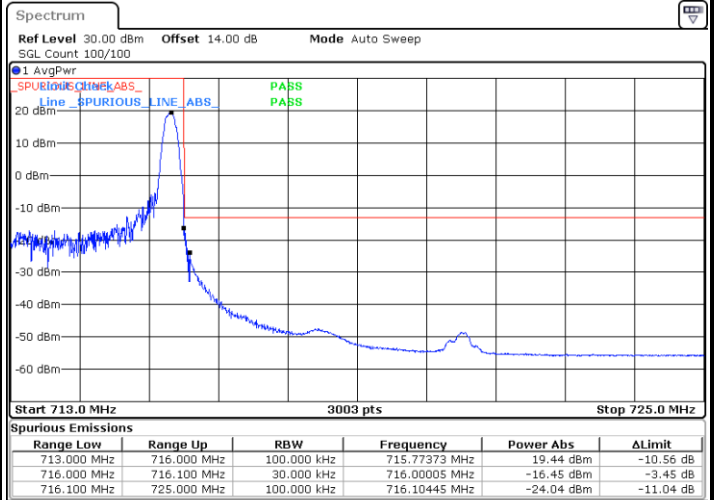
LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / 1RB



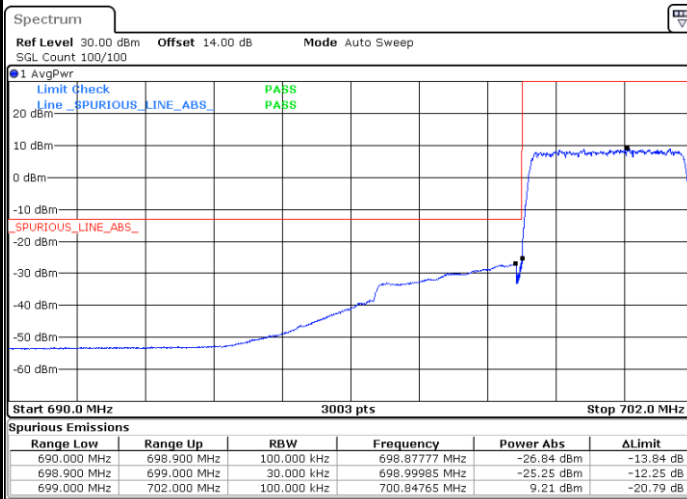
Date: 26.MAR.2020 16:24:56

Highest Band Edge / 1 RB



Date: 26.MAR.2020 16:27:56

Lowest Band Edge / Full RB



Date: 22.MAR.2020 02:47:24

Highest Band Edge / Full RB

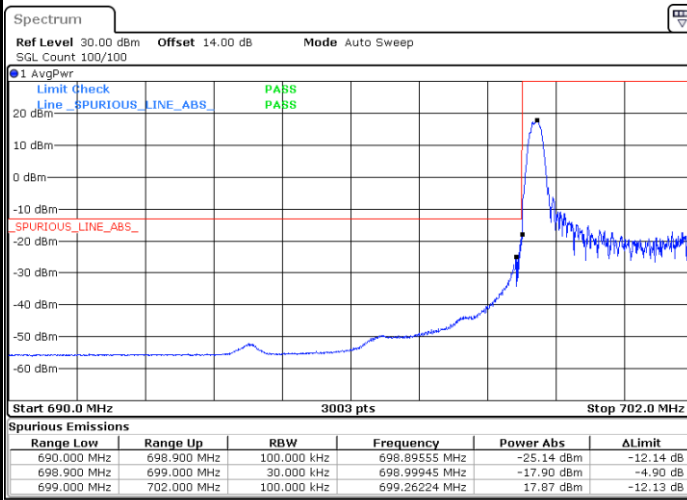


Date: 22.MAR.2020 02:55:40



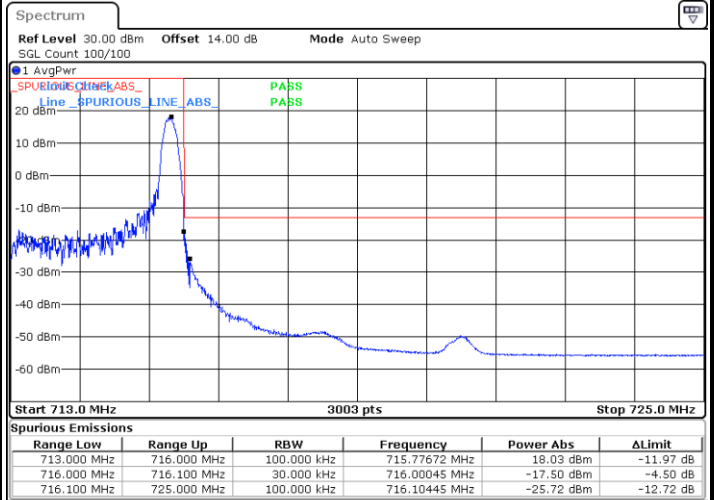
LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



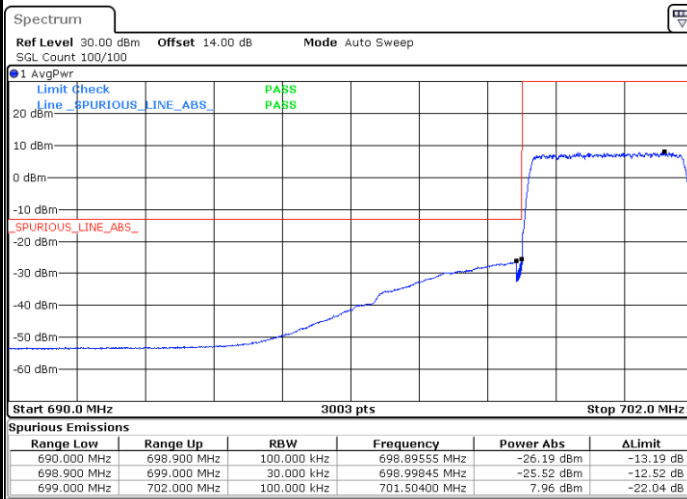
Date: 26.MAR.2020 16:25:50

Highest Band Edge / 1 RB



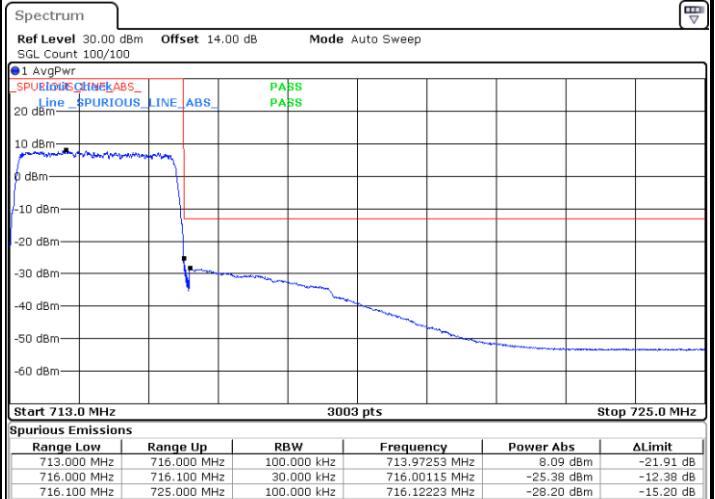
Date: 26.MAR.2020 16:28:44

Lowest Band Edge / Full RB



Date: 22.MAR.2020 02:48:24

Highest Band Edge / Full RB



Date: 22.MAR.2020 02:56:40



LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / 1 RB



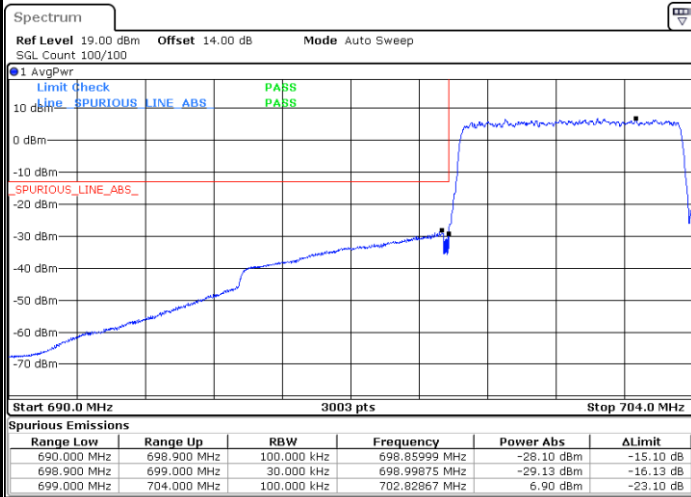
Date: 22.MAR.2020 03:04:47

Highest Band Edge / 1 RB



Date: 22.MAR.2020 03:12:03

Lowest Band Edge / Full RB



Date: 22.MAR.2020 03:01:47

Highest Band Edge / Full RB

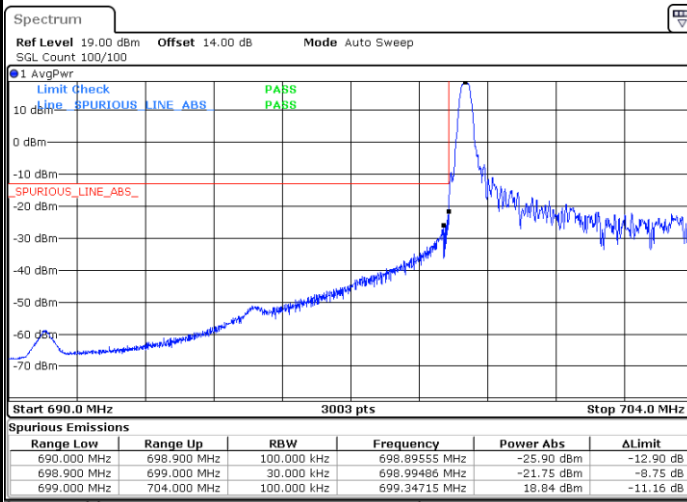


Date: 22.MAR.2020 03:10:03



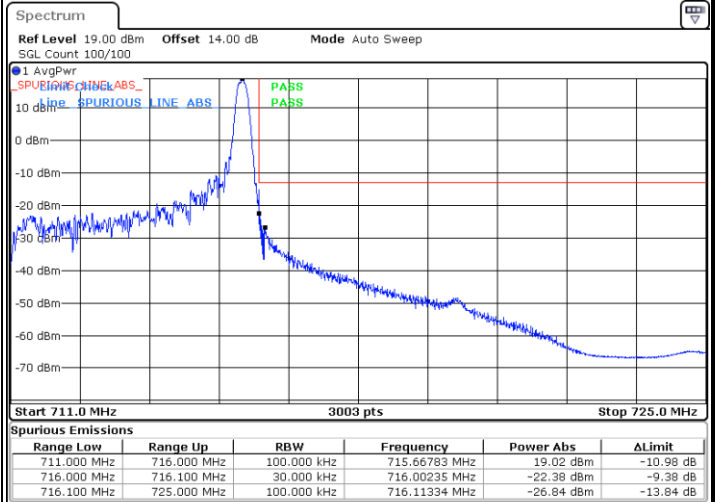
LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / 1RB



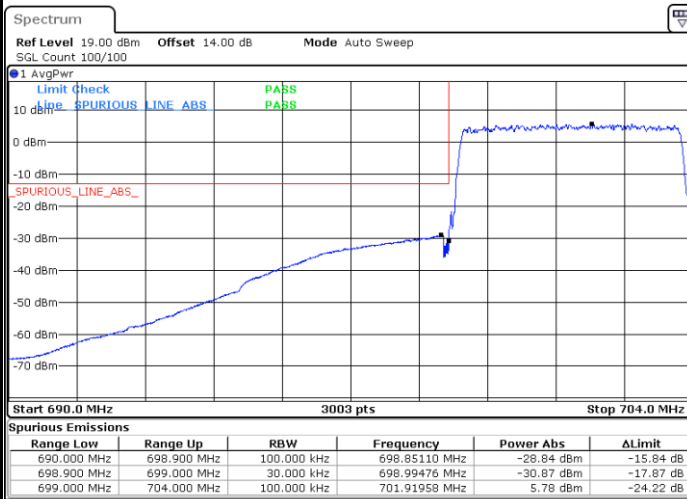
Date: 22.MAR.2020 03:03:47

Highest Band Edge / 1 RB



Date: 22.MAR.2020 03:13:03

Lowest Band Edge / Full RB



Date: 22.MAR.2020 03:02:47

Highest Band Edge / Full RB

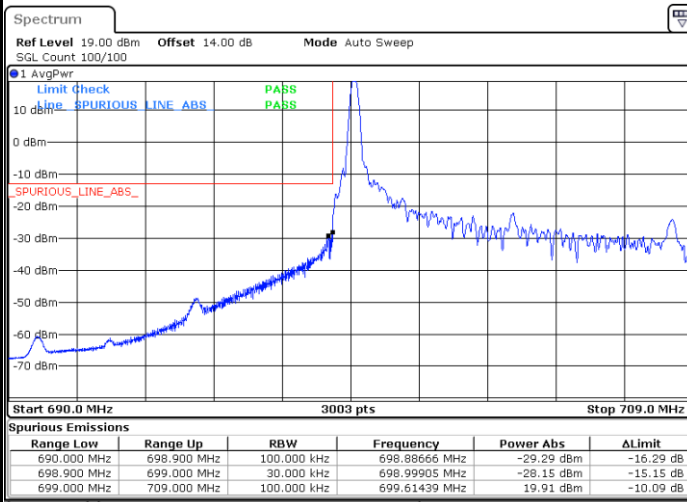


Date: 22.MAR.2020 03:11:03



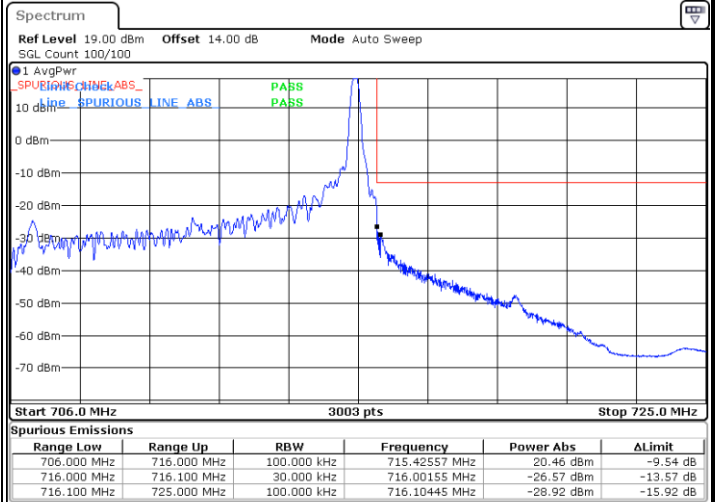
LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1 RB



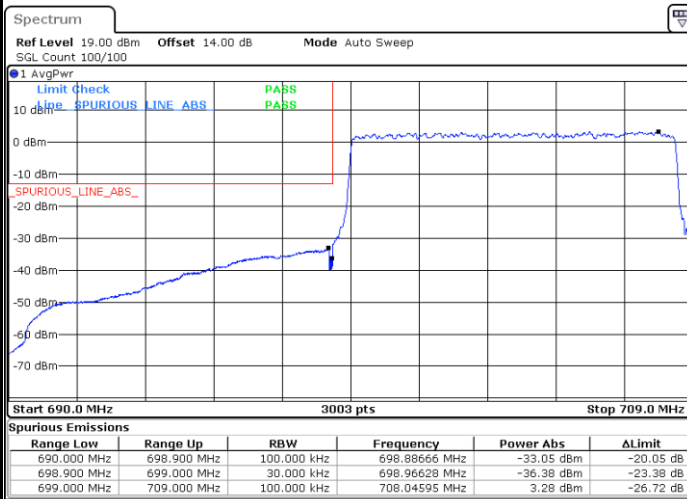
Date: 22.MAR.2020 03:19:10

Highest Band Edge / 1 RB



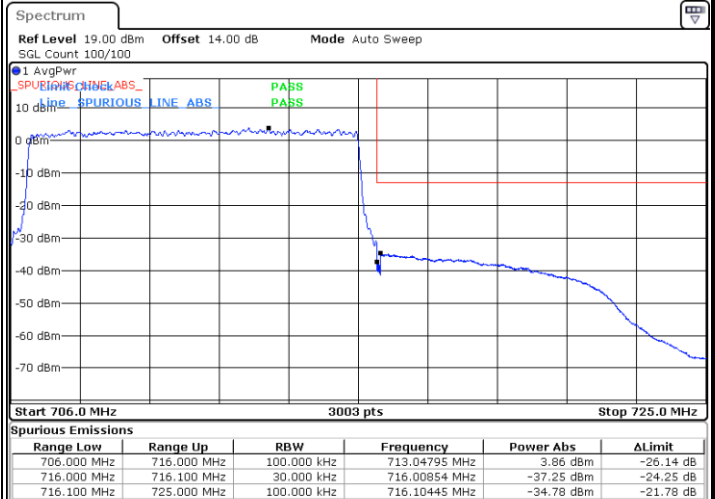
Date: 22.MAR.2020 03:27:24

Lowest Band Edge / Full RB



Date: 22.MAR.2020 03:16:10

Highest Band Edge / Full RB

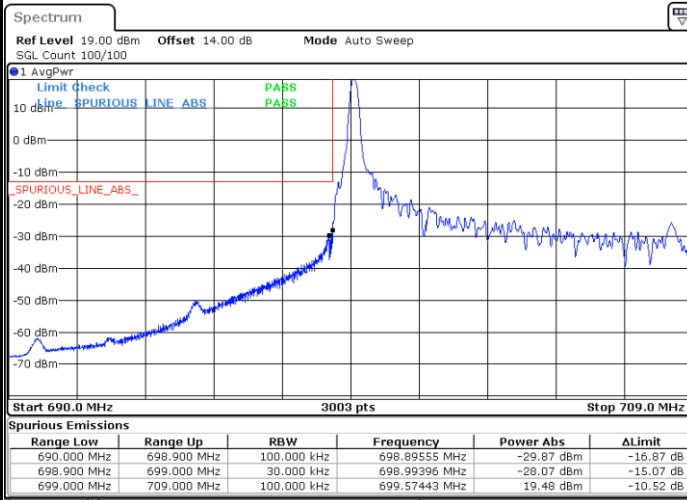


Date: 22.MAR.2020 03:24:25



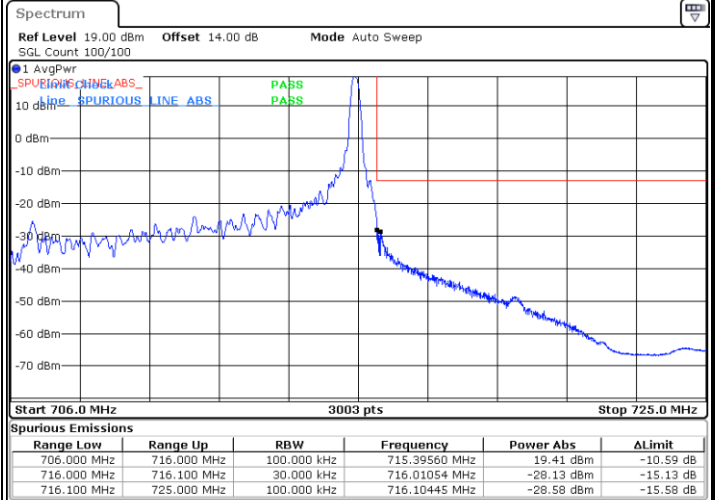
LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



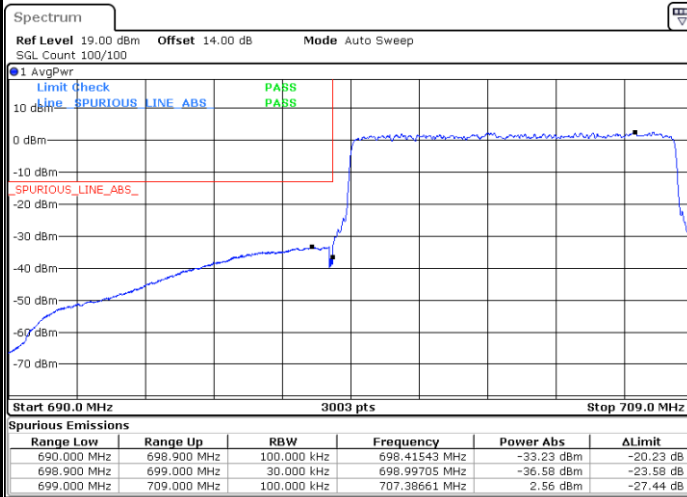
Date: 22.MAR.2020 03:18:10

Highest Band Edge / 1 RB



Date: 22.MAR.2020 03:26:25

Lowest Band Edge / Full RB



Date: 22.MAR.2020 03:17:10

Highest Band Edge / Full RB



Date: 22.MAR.2020 03:25:25

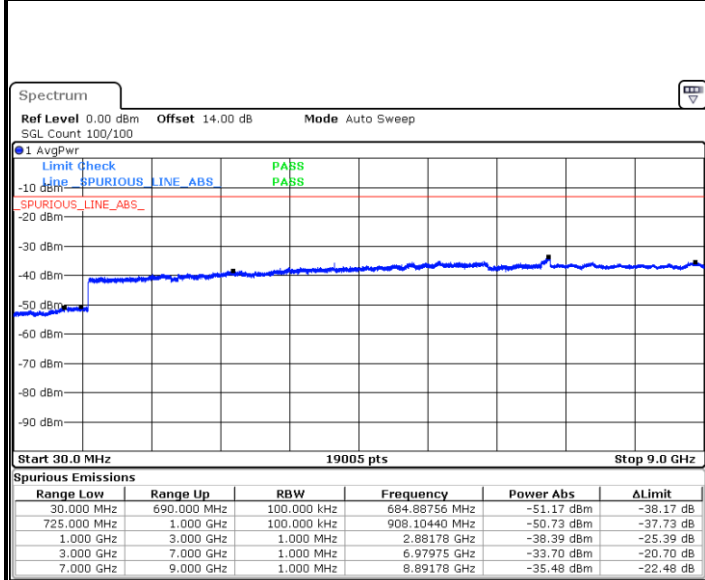


Conducted Spurious Emission



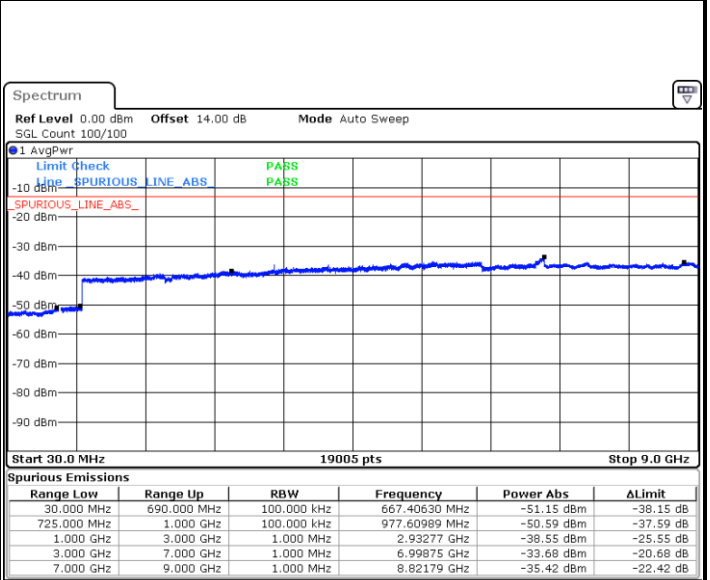
LTE Band 12 / 1.4MHz

Lowest Channel / QPSK



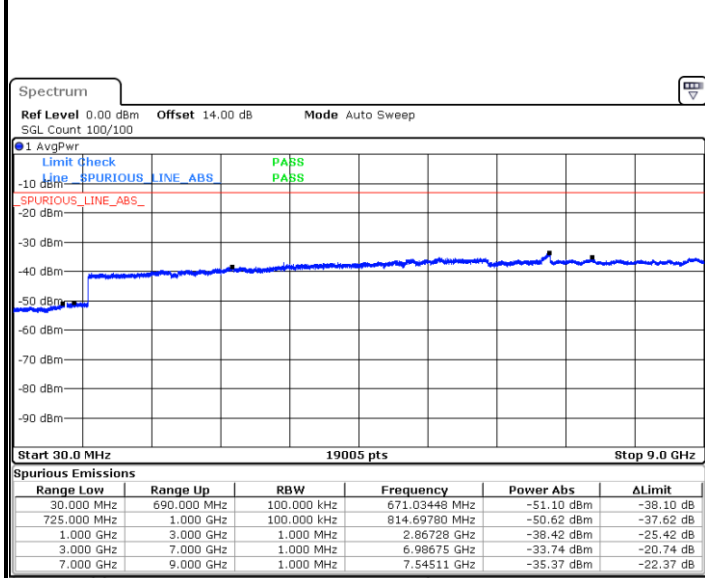
Date: 22.MAR.2020 03:34:14

Lowest Channel / 16QAM



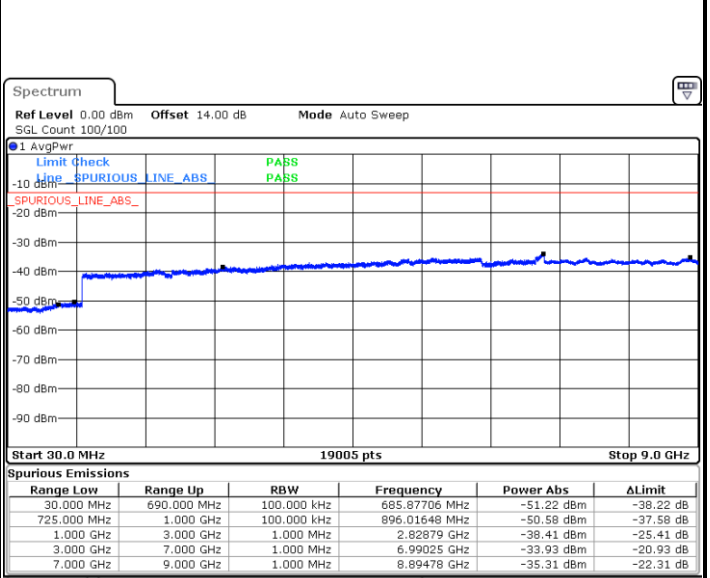
Date: 22.MAR.2020 03:34:56

Middle Channel / QPSK



Date: 22.MAR.2020 03:37:04

Middle Channel / 16QAM

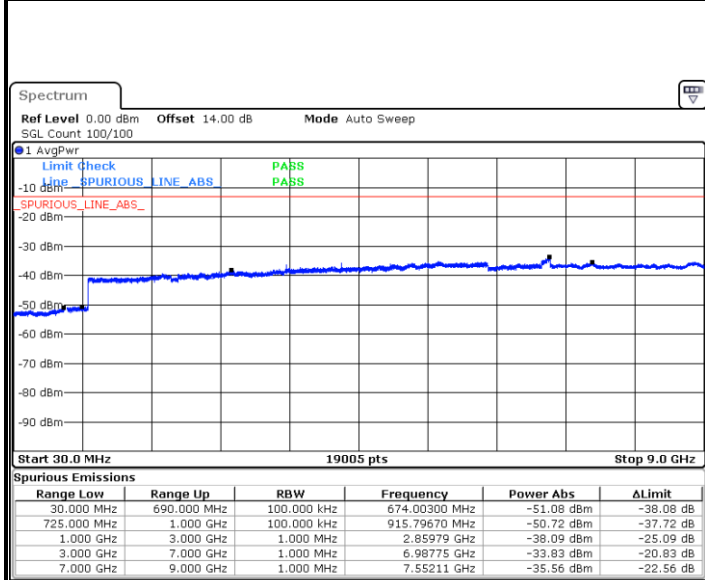


Date: 22.MAR.2020 03:36:22



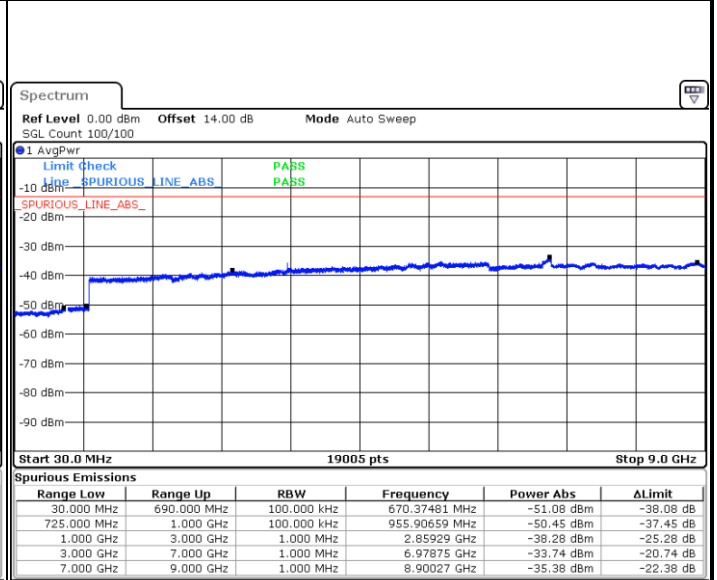
LTE Band 12 / 1.4MHz

Highest Channel / QPSK



Date: 22.MAR.2020 03:42:30

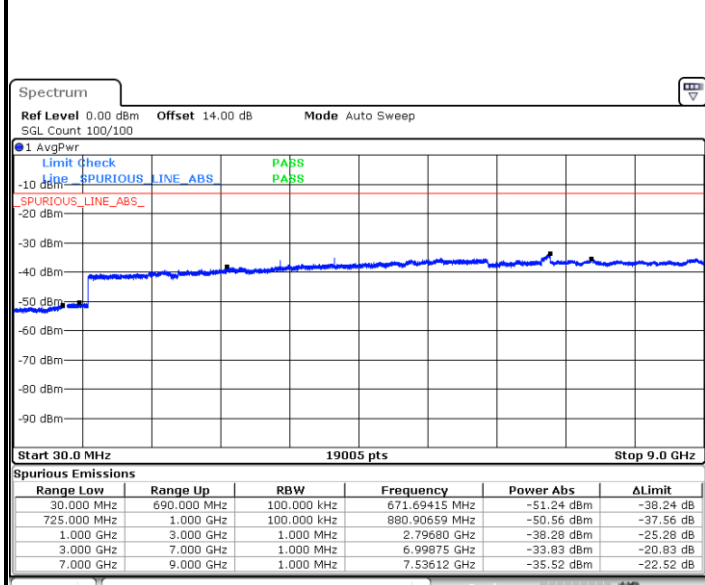
Highest Channel / 16QAM



Date: 22.MAR.2020 03:43:11

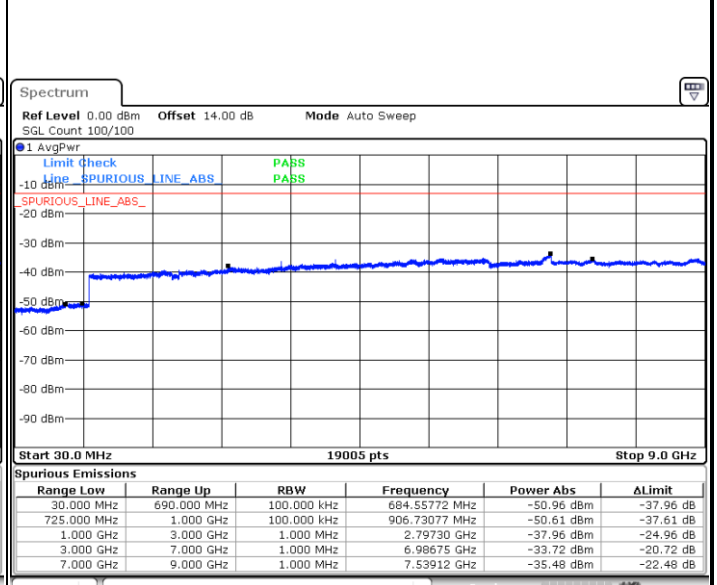
LTE Band 12 / 3MHz

Lowest Channel / QPSK



Date: 22.MAR.2020 02:51:06

Lowest Channel / 16QAM



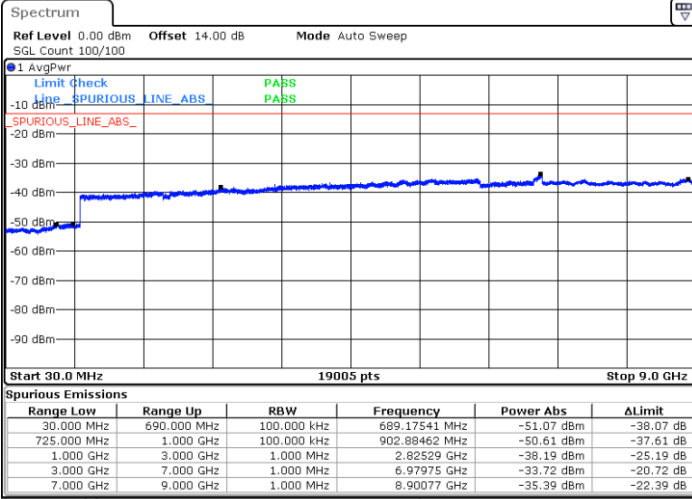
Date: 22.MAR.2020 02:51:48



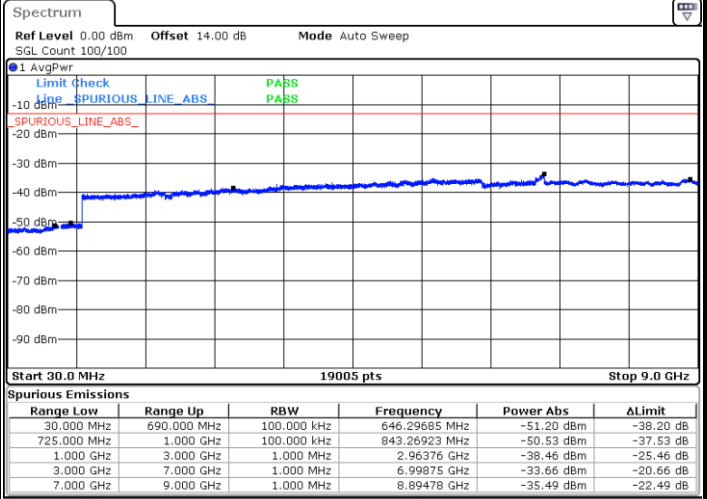
LTE Band 12 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM



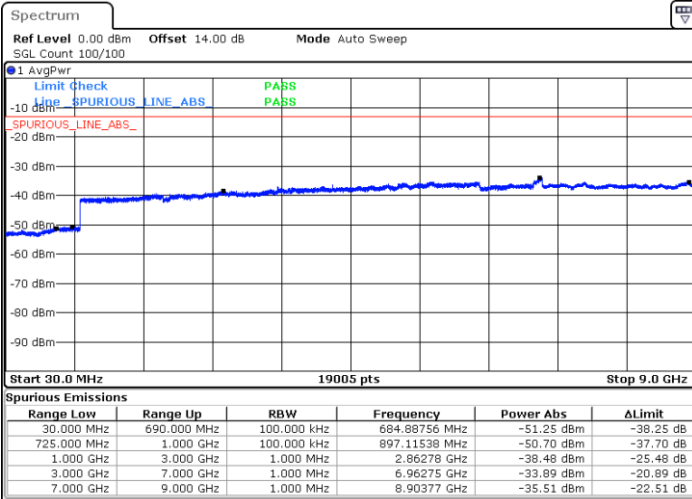
Date: 22.MAR.2020 02:53:56



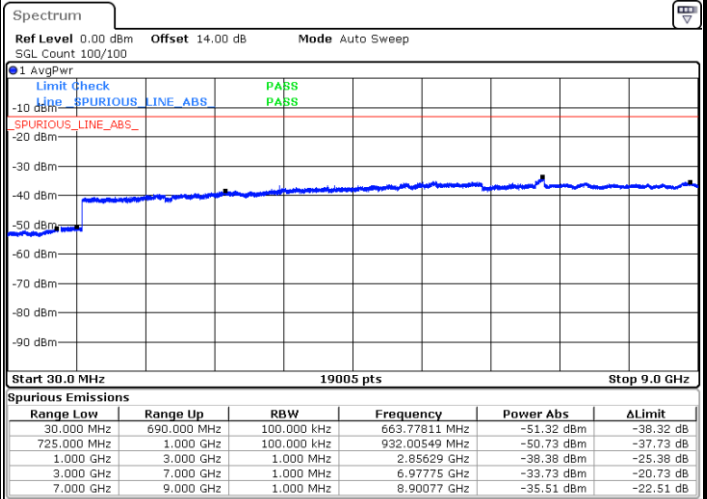
Date: 22.MAR.2020 02:53:15

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 22.MAR.2020 02:59:22



Date: 22.MAR.2020 03:00:04