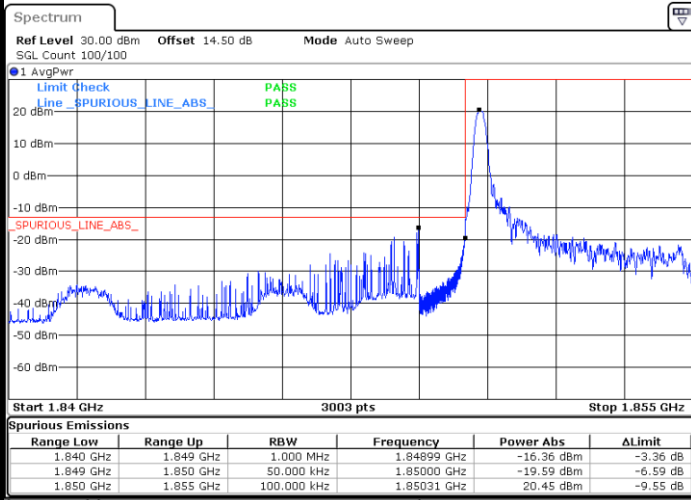




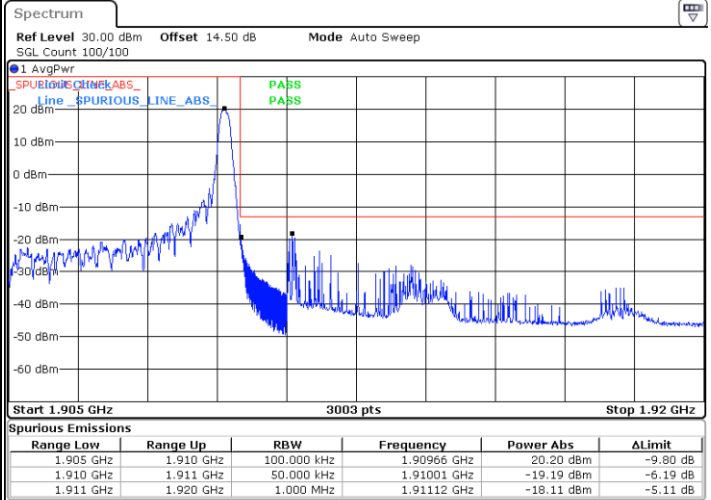
LTE Band 2 / 5MHz / 16QAM

Lowest Band Edge / 1RB



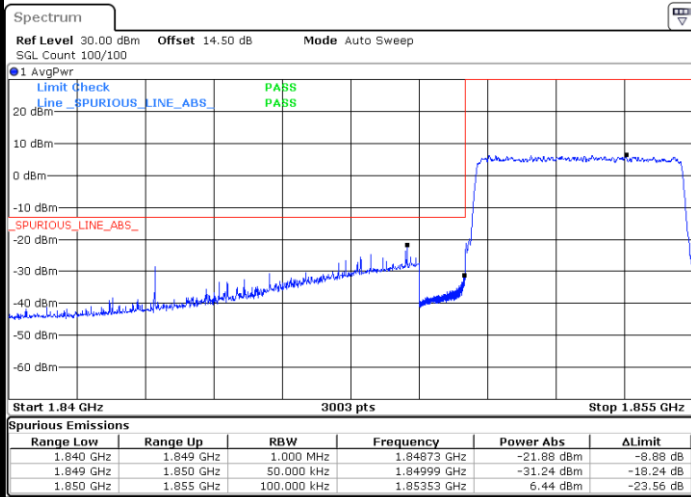
Date: 14.MAR.2020 16:53:36

Highest Band Edge / 1 RB



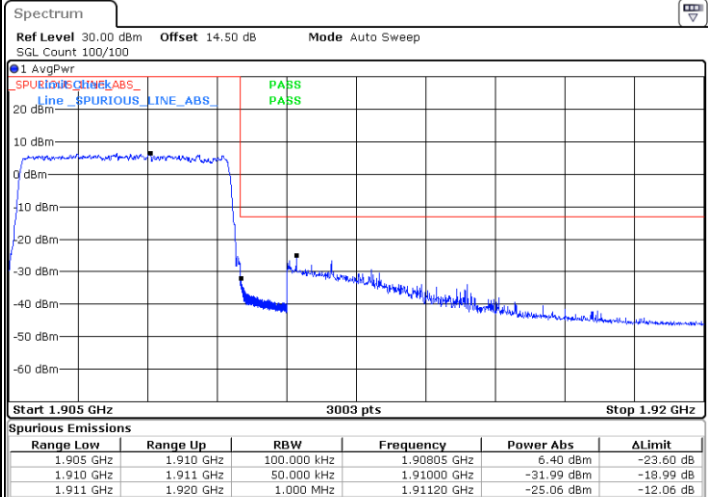
Date: 14.MAR.2020 11:54:09

Lowest Band Edge / Full RB



Date: 14.MAR.2020 11:47:05

Highest Band Edge / Full RB

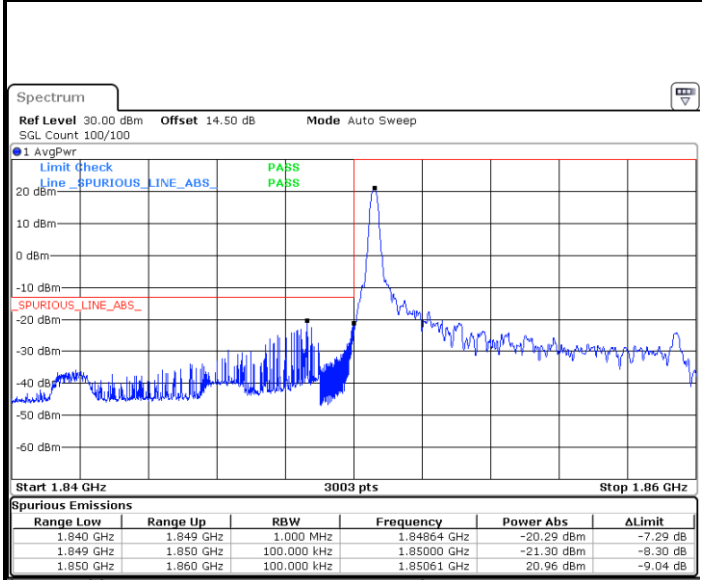


Date: 14.MAR.2020 11:55:37



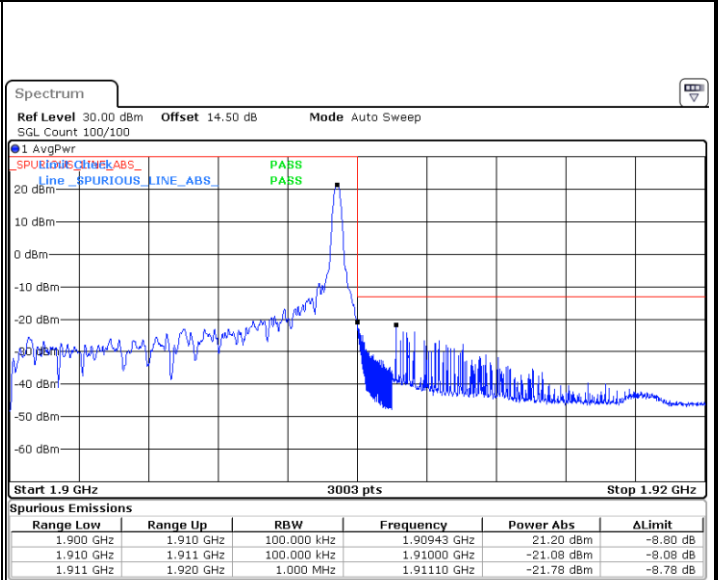
LTE Band 2 / 10MHz / QPSK

Lowest Band Edge / 1 RB



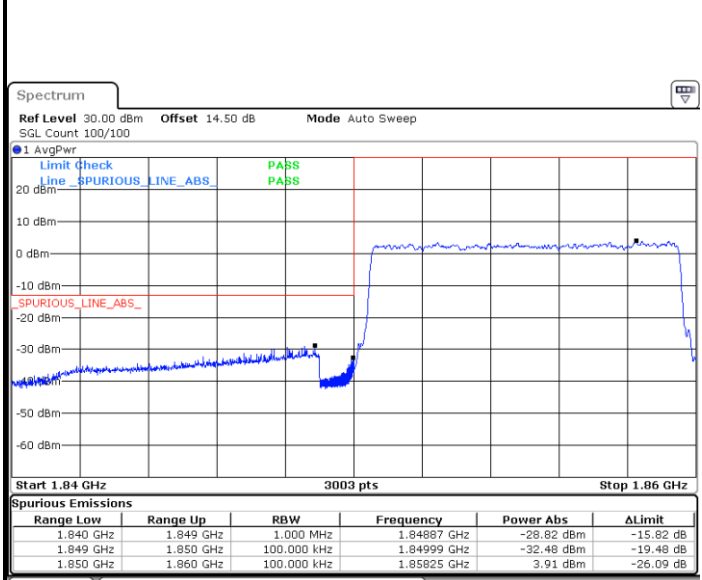
Date: 14.MAR.2020 11:58:07

Highest Band Edge / 1 RB



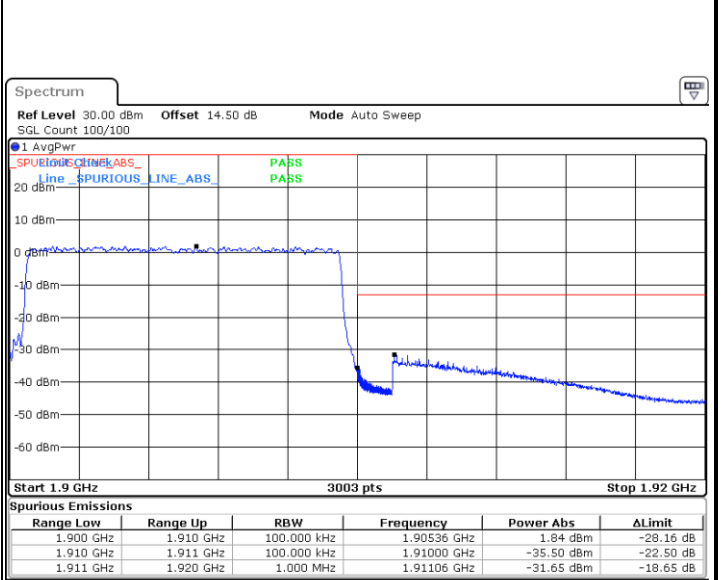
Date: 14.MAR.2020 12:46:25

Lowest Band Edge / Full RB



Date: 14.MAR.2020 12:29:56

Highest Band Edge / Full RB

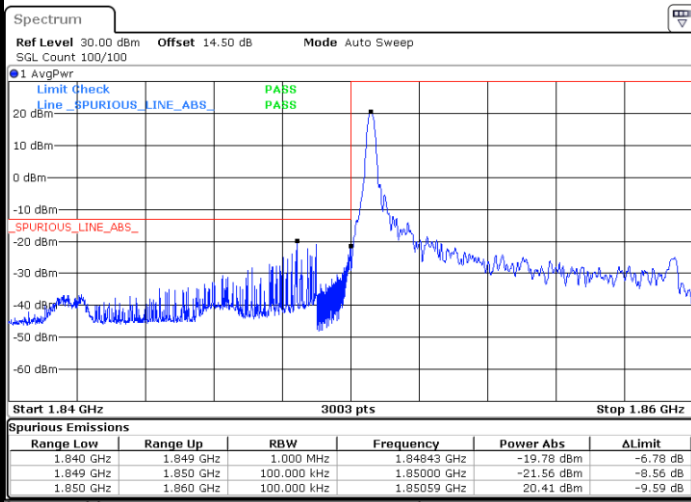


Date: 14.MAR.2020 12:47:32



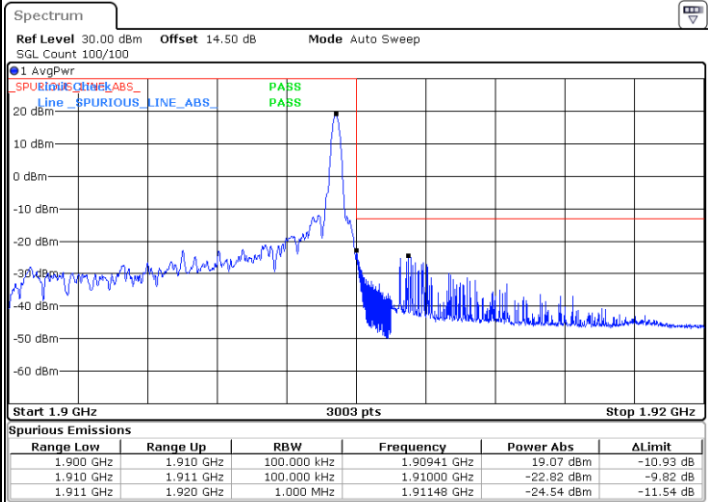
LTE Band 2 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



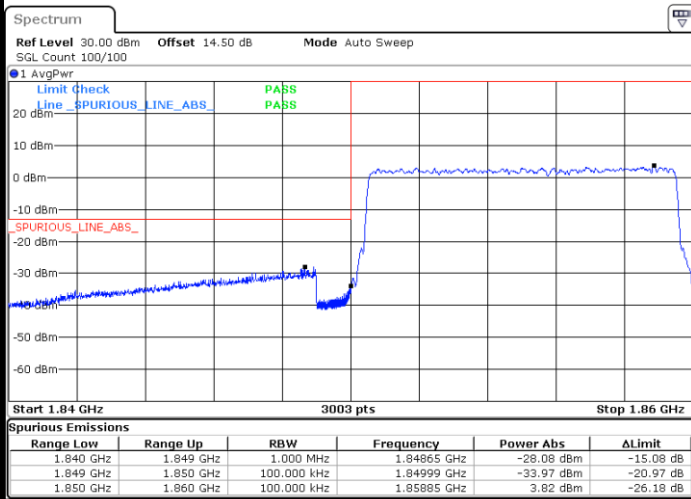
Date: 14.MAR.2020 11:58:40

Highest Band Edge / 1 RB



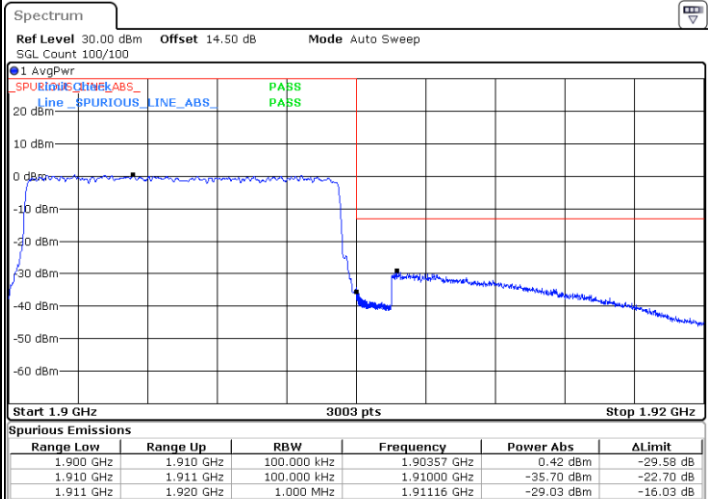
Date: 14.MAR.2020 12:46:58

Lowest Band Edge / Full RB



Date: 14.MAR.2020 12:30:30

Highest Band Edge / Full RB

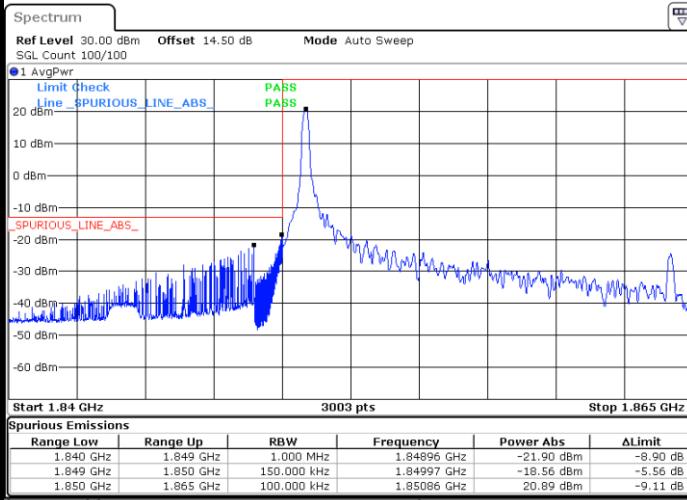


Date: 14.MAR.2020 12:48:06



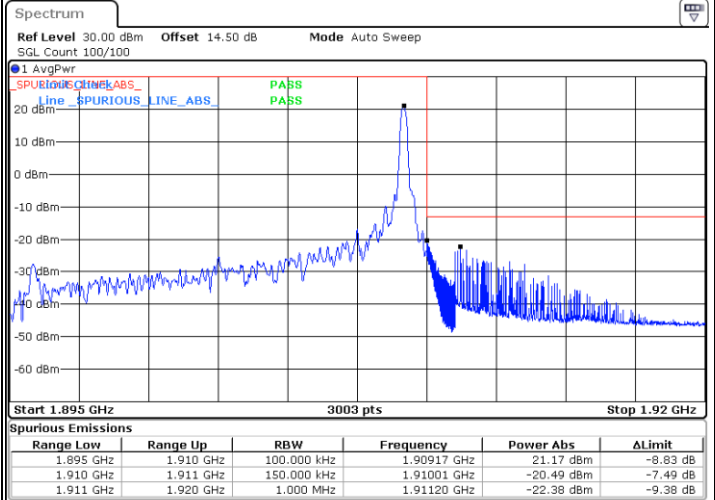
LTE Band 2 / 15MHz / QPSK

Lowest Band Edge / 1 RB



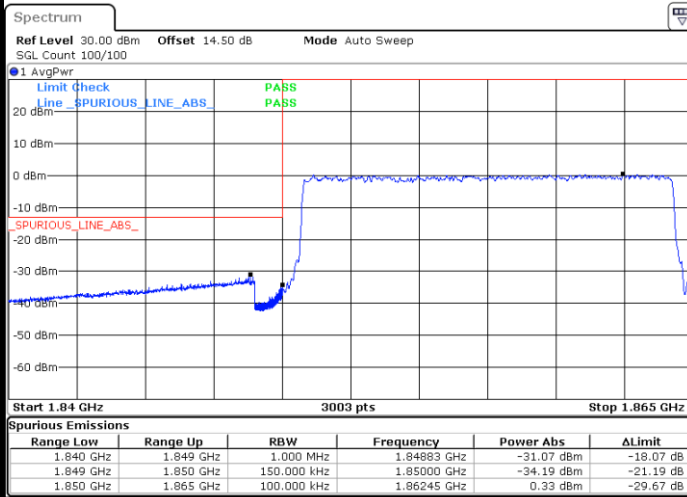
Date: 14.MAR.2020 13:00:20

Highest Band Edge / 1 RB



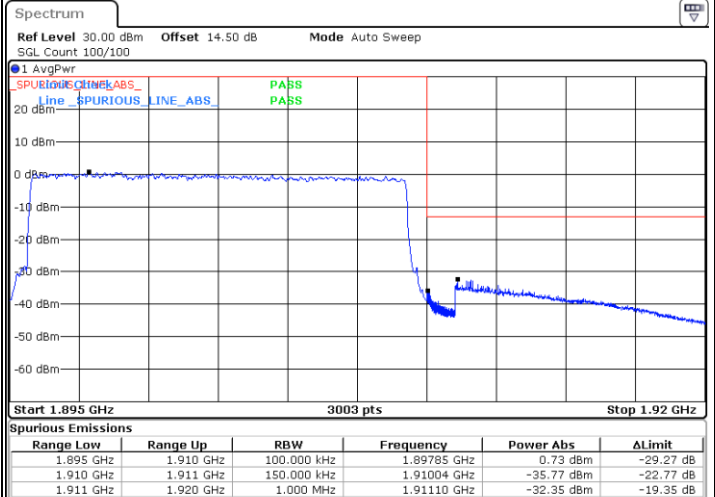
Date: 14.MAR.2020 13:06:27

Lowest Band Edge / Full RB



Date: 14.MAR.2020 13:01:28

Highest Band Edge / Full RB

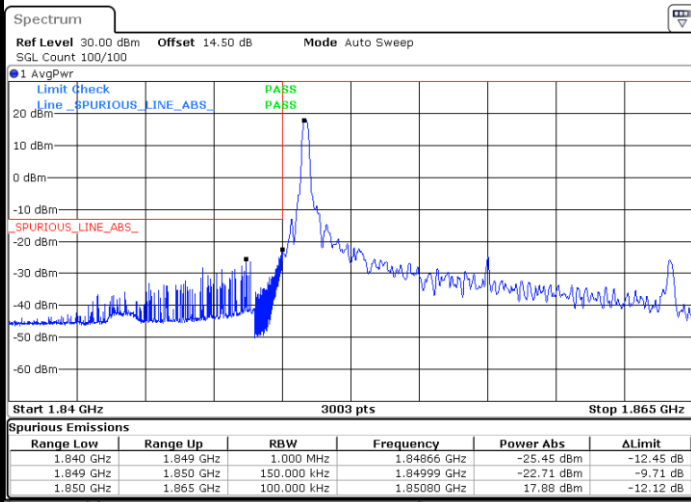


Date: 14.MAR.2020 13:07:35



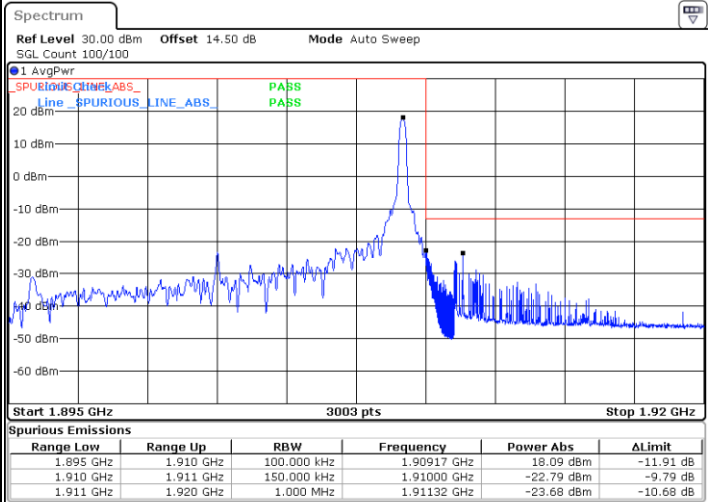
LTE Band 2 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



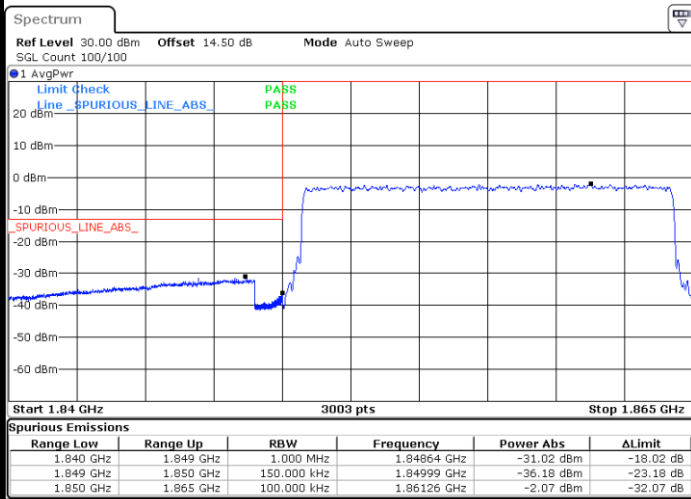
Date: 14.MAR.2020 13:00:54

Highest Band Edge / 1 RB



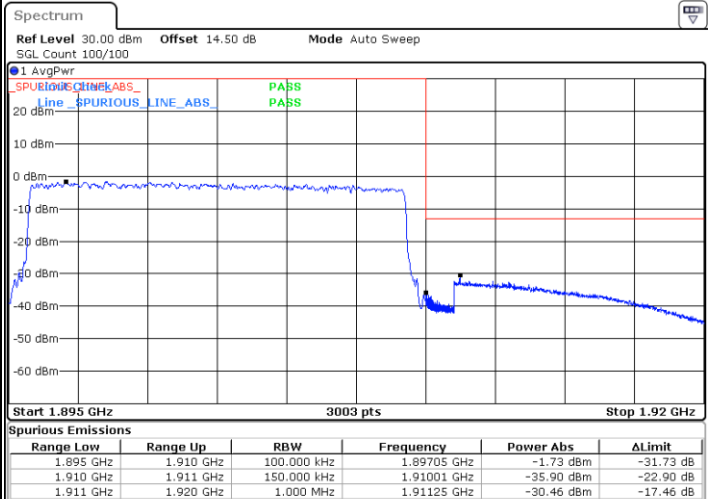
Date: 14.MAR.2020 13:07:01

Lowest Band Edge / Full RB



Date: 14.MAR.2020 13:02:01

Highest Band Edge / Full RB

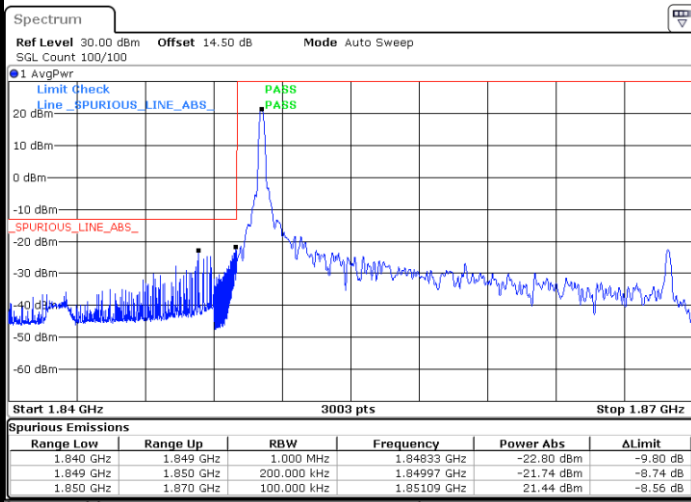


Date: 14.MAR.2020 13:08:09



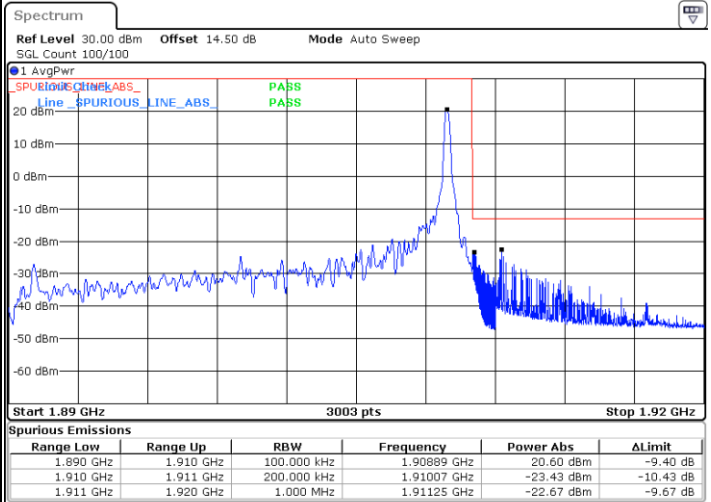
LTE Band 2 / 20MHz / QPSK

Lowest Band Edge / 1 RB



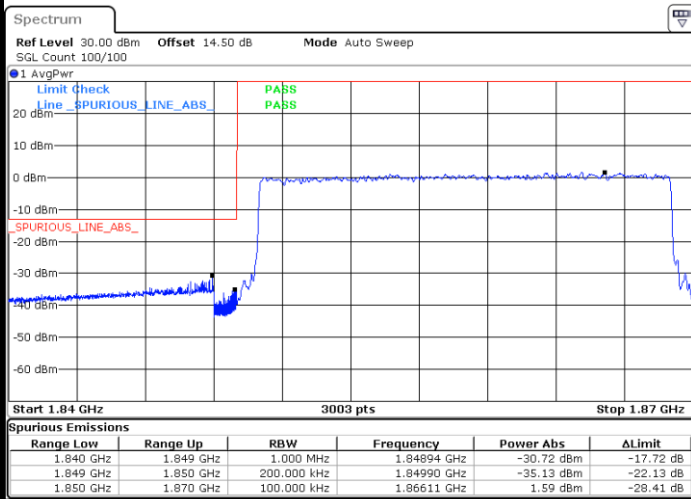
Date: 14.MAR.2020 13:10:39

Highest Band Edge / 1 RB



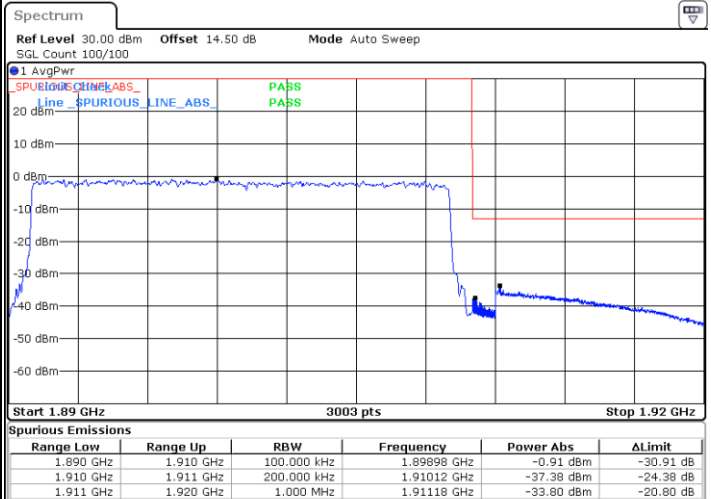
Date: 14.MAR.2020 13:16:46

Lowest Band Edge / Full RB



Date: 14.MAR.2020 13:11:46

Highest Band Edge / Full RB

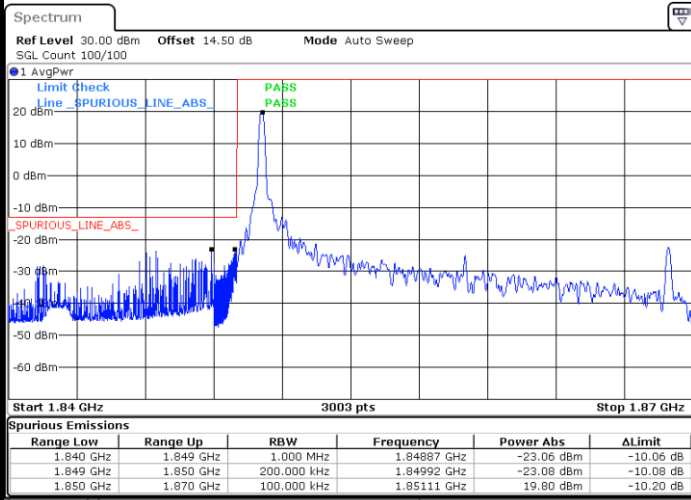


Date: 14.MAR.2020 13:17:54



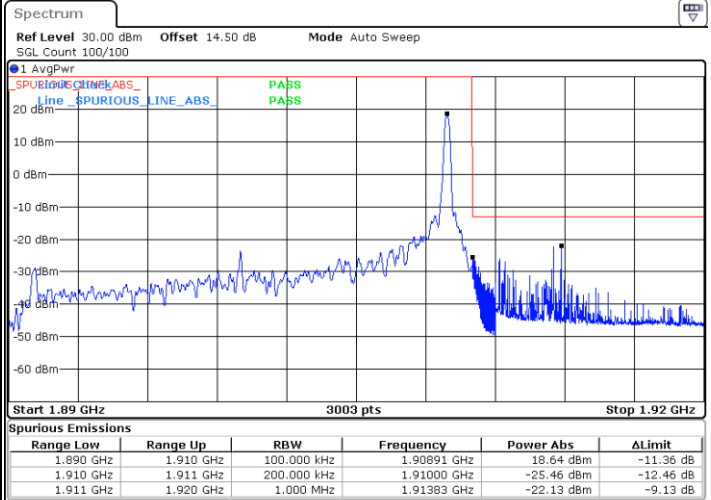
LTE Band 2 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



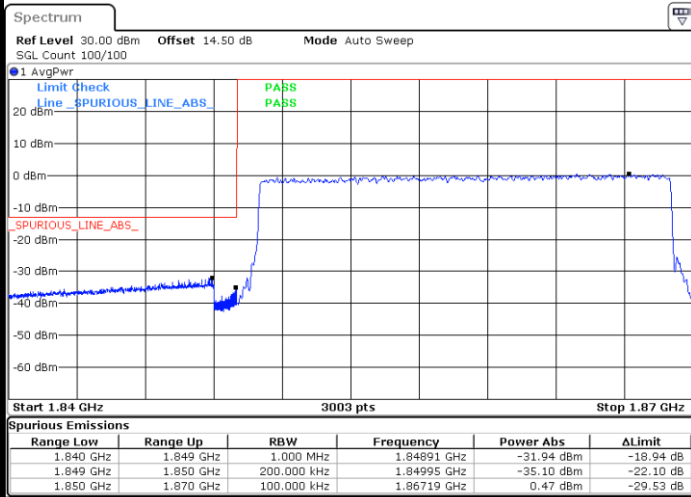
Date: 14.MAR.2020 17:00:38

Highest Band Edge / 1 RB



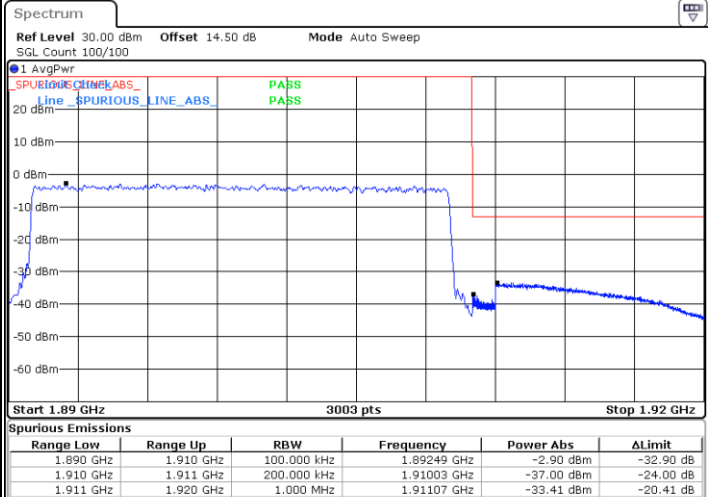
Date: 14.MAR.2020 13:17:20

Lowest Band Edge / Full RB



Date: 14.MAR.2020 13:12:20

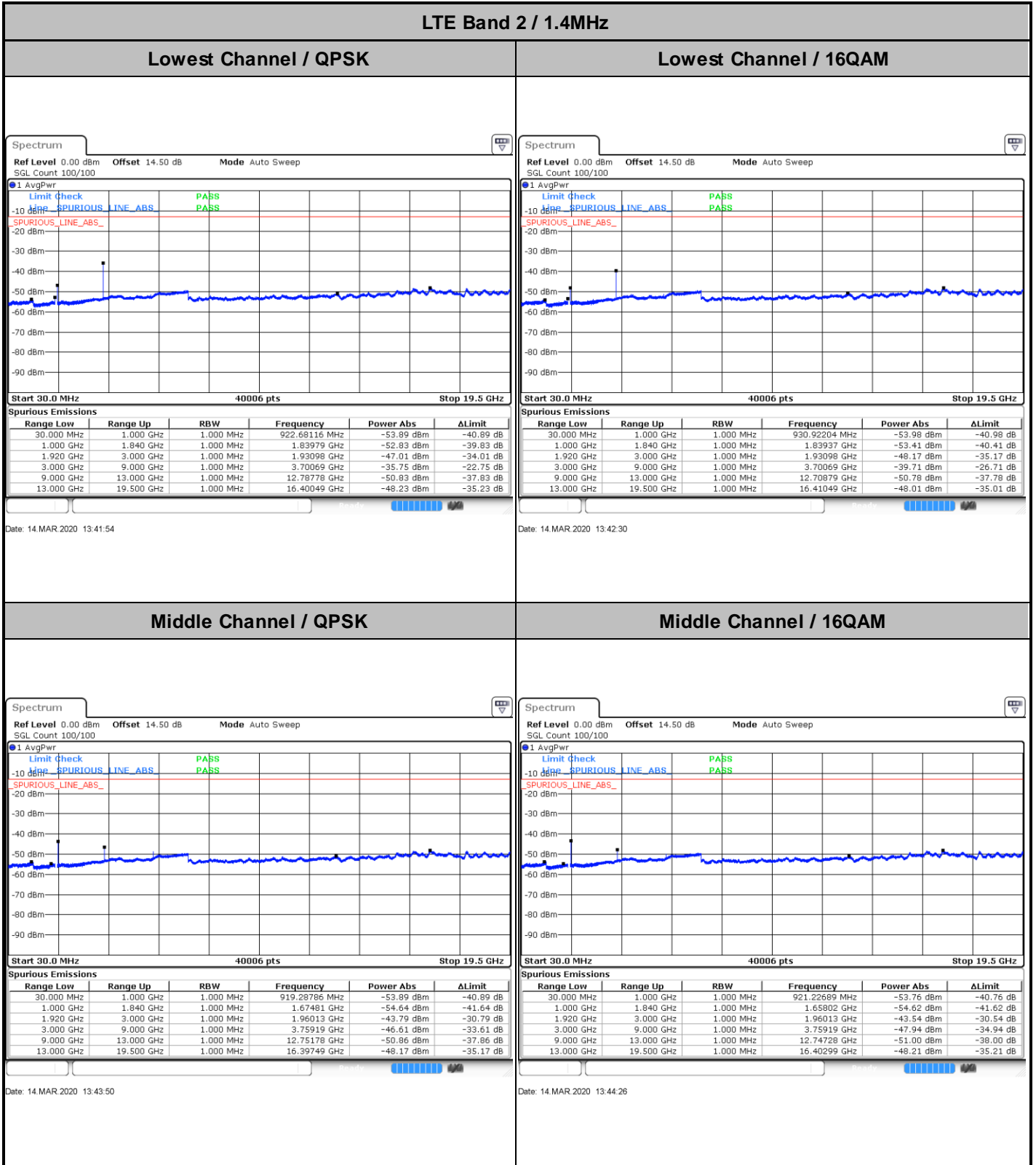
Highest Band Edge / Full RB



Date: 14.MAR.2020 13:18:28



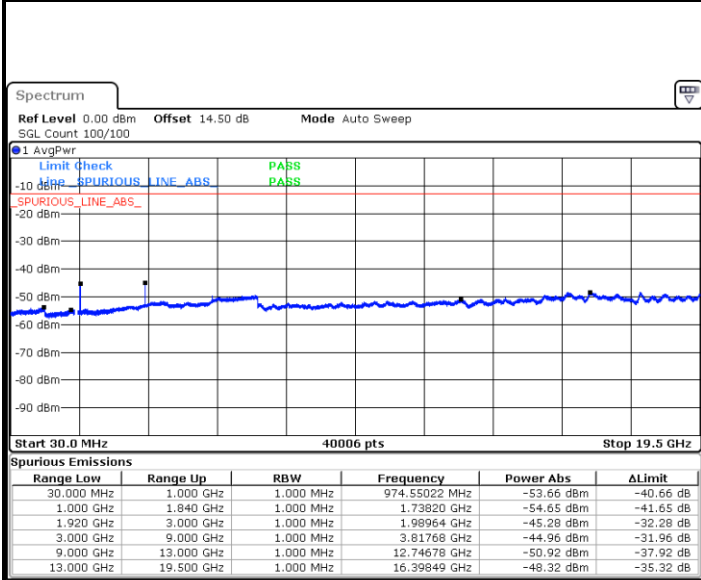
Conducted Spurious Emission





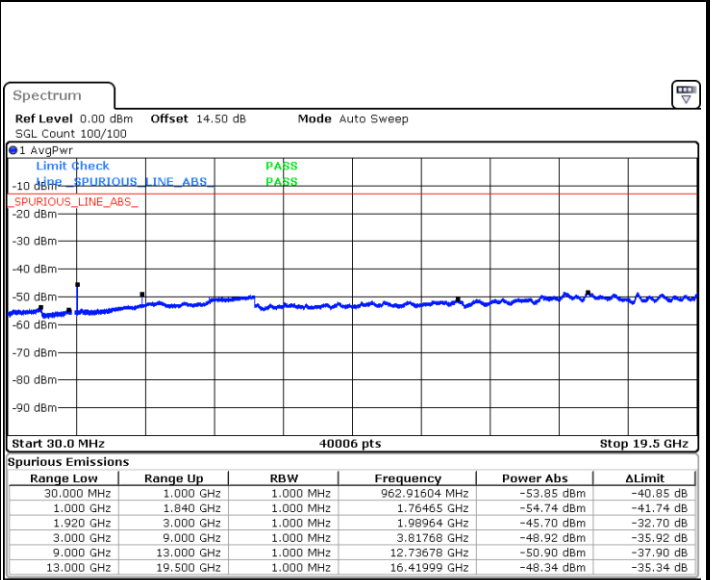
LTE Band 2 / 1.4MHz

Highest Channel / QPSK



Date: 14.MAR.2020 13:51:44

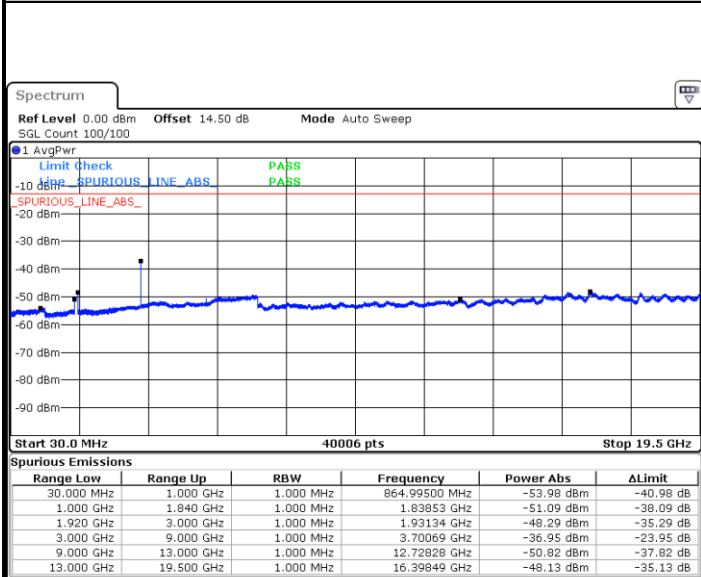
Highest Channel / 16QAM



Date: 14.MAR.2020 13:52:20

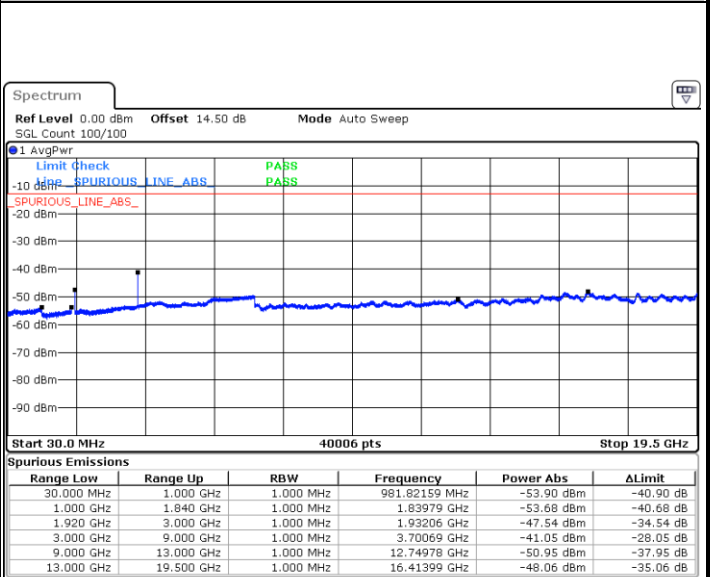
LTE Band 2 / 3MHz

Lowest Channel / QPSK



Date: 14.MAR.2020 11:32:40

Lowest Channel / 16QAM

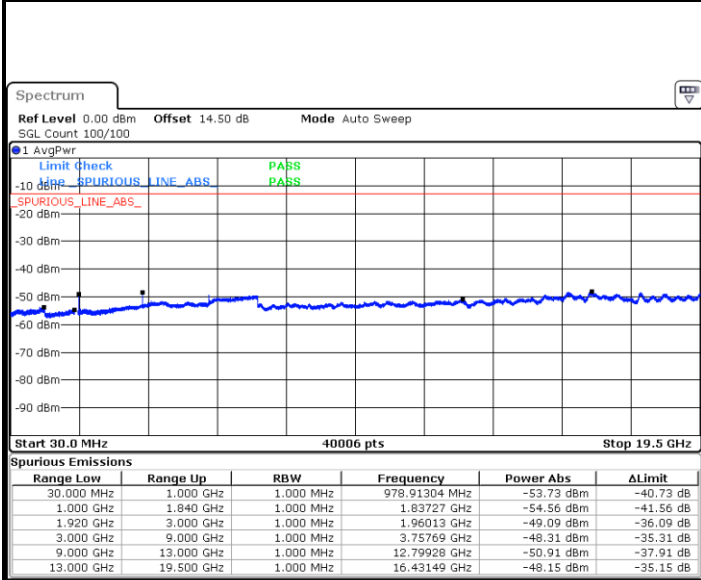


Date: 14.MAR.2020 11:33:16



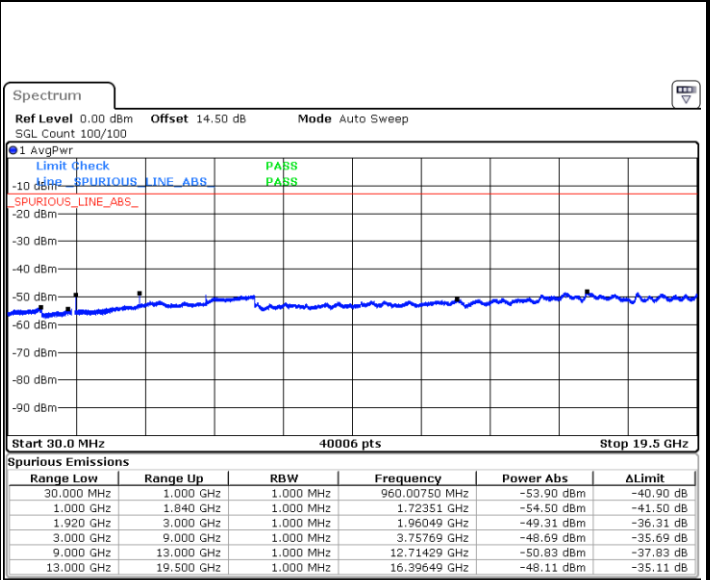
LTE Band 2 / 3MHz

Middle Channel / QPSK



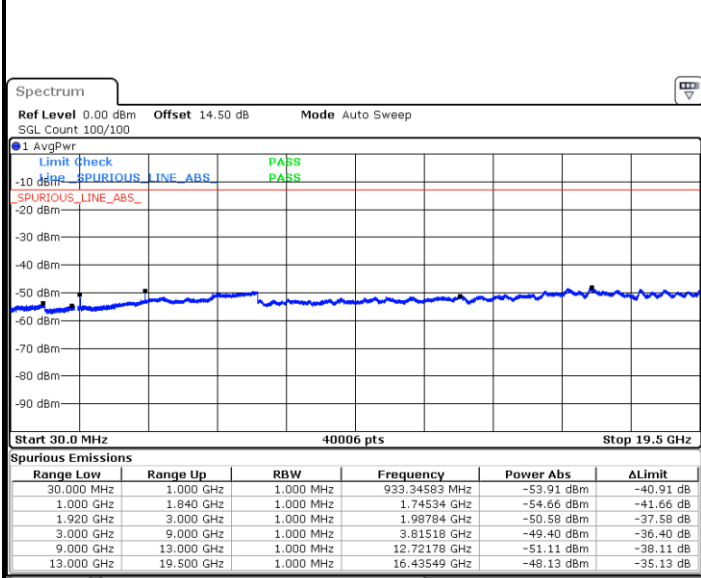
Date: 14.MAR.2020 11:34:36

Middle Channel / 16QAM



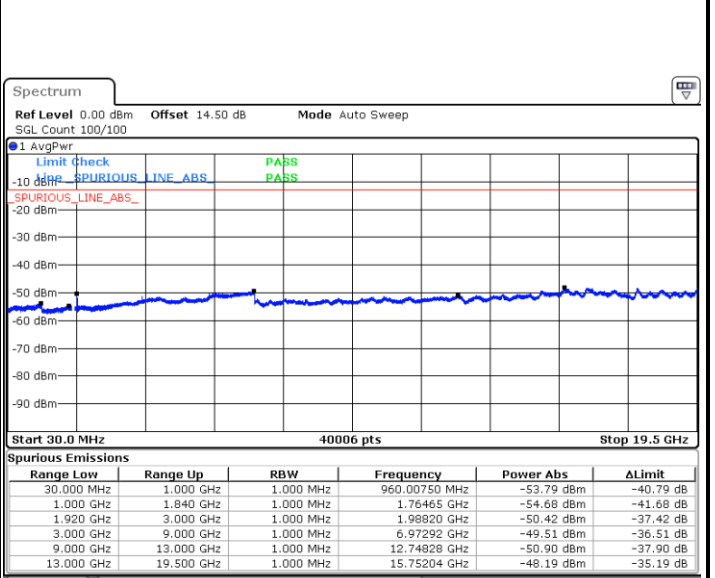
Date: 14.MAR.2020 11:35:12

Highest Channel / QPSK



Date: 14.MAR.2020 11:42:46

Highest Channel / 16QAM

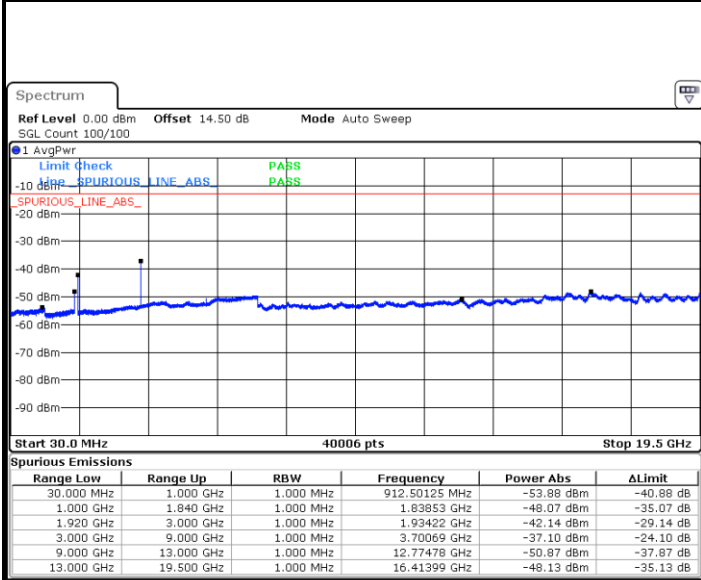


Date: 14.MAR.2020 11:43:22



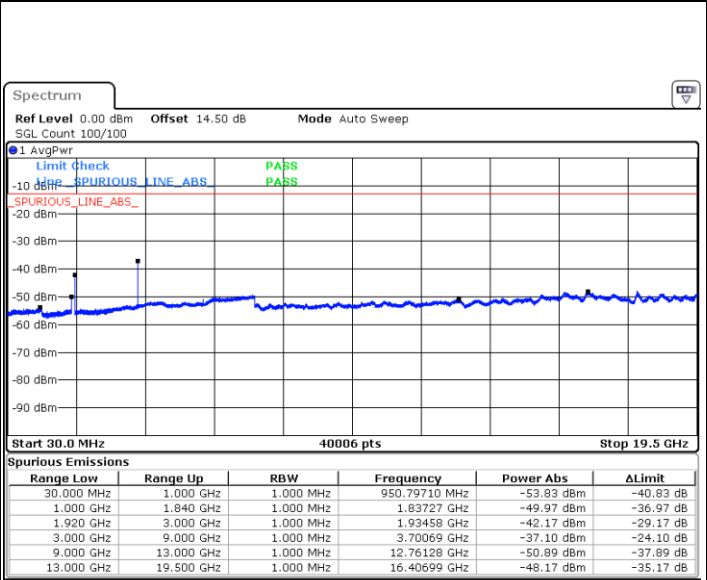
LTE Band 2 / 5MHz

Lowest Channel / QPSK



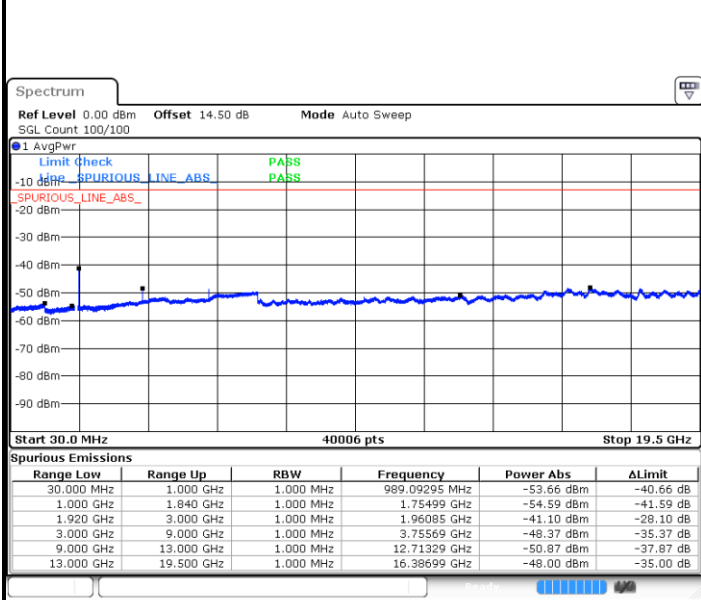
Date: 14.MAR.2020 11:47:42

Lowest Channel / 16QAM



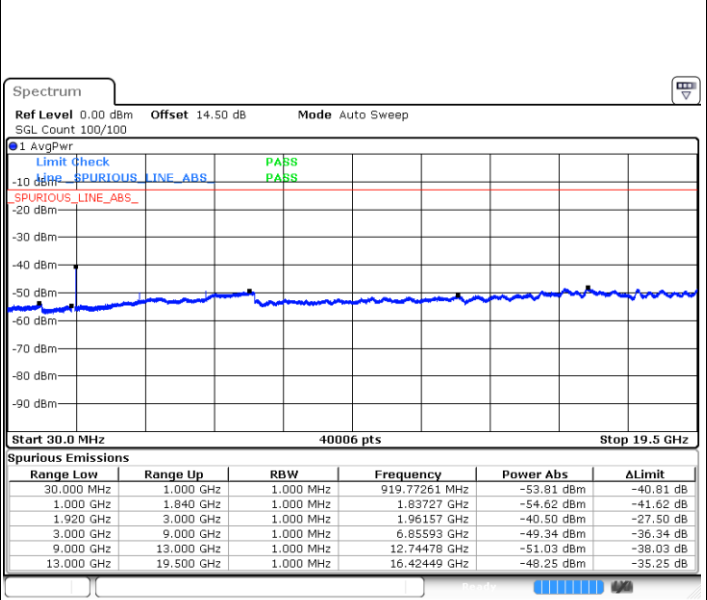
Date: 14.MAR.2020 11:48:18

Middle Channel / QPSK



Date: 14.MAR.2020 11:49:38

Middle Channel / 16QAM

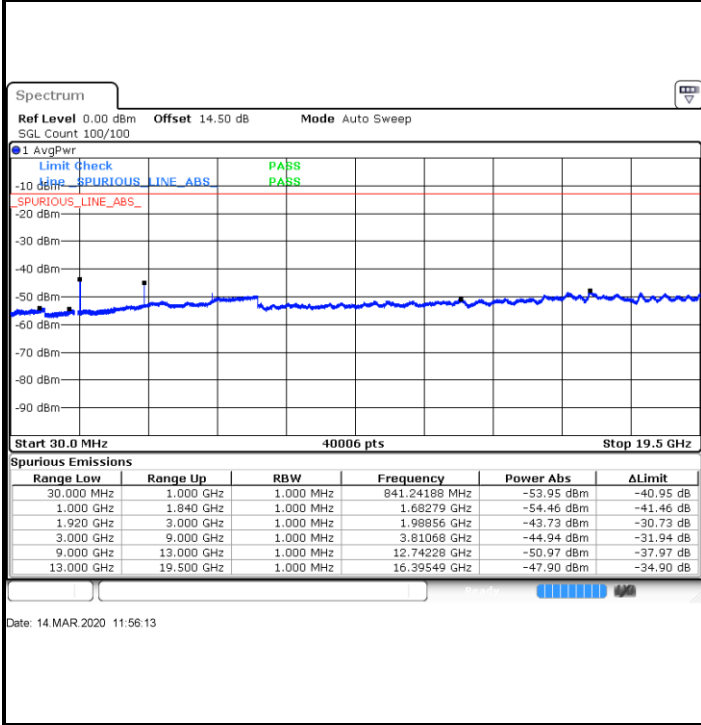


Date: 14.MAR.2020 11:50:14

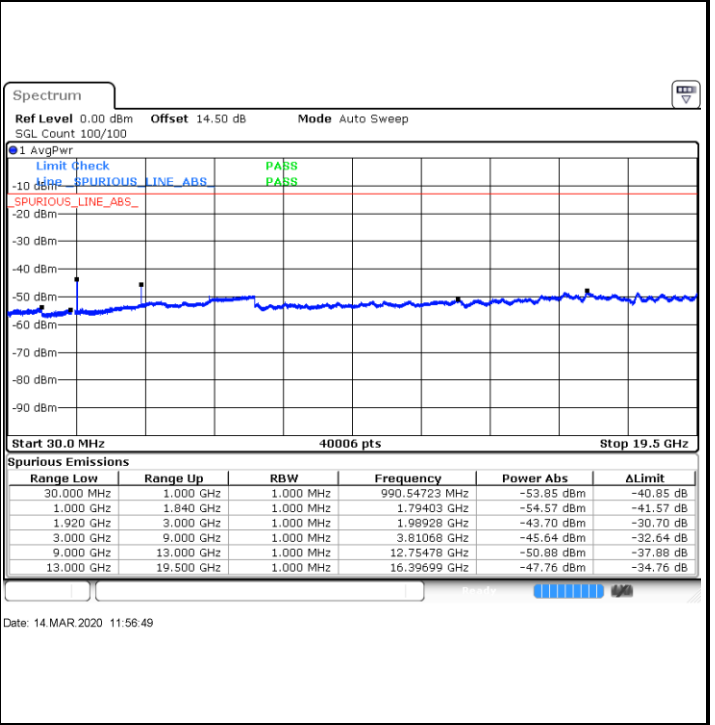


LTE Band 2 / 5MHz

Highest Channel / QPSK

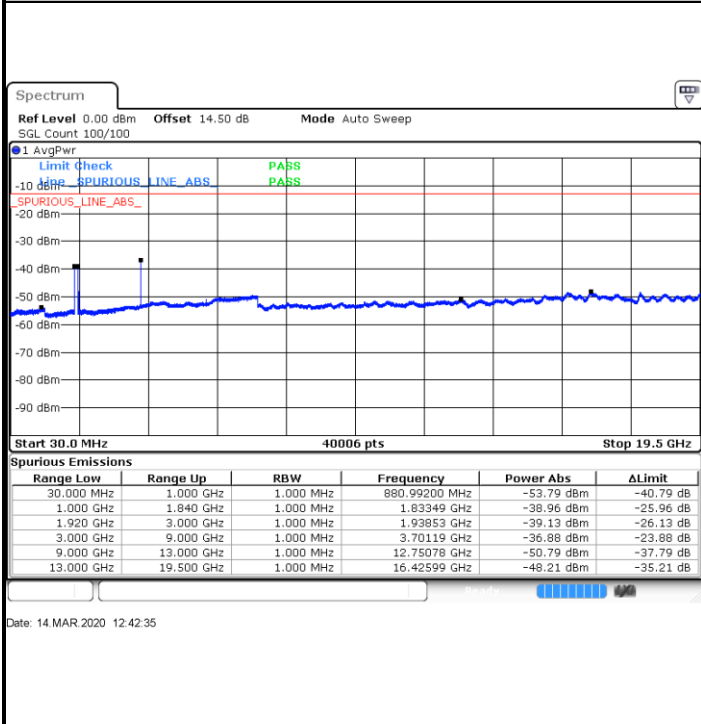


Highest Channel / 16QAM

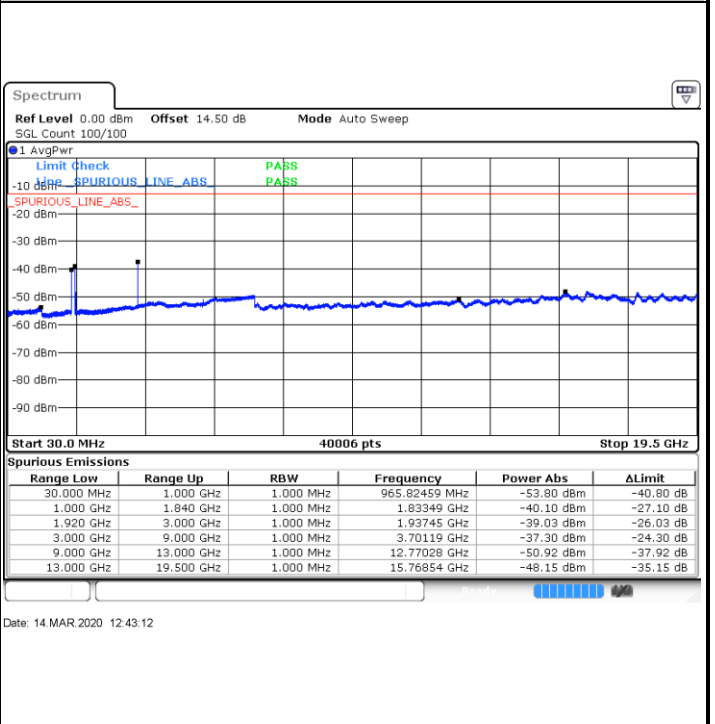


LTE Band 2 / 10MHz

Lowest Channel / QPSK



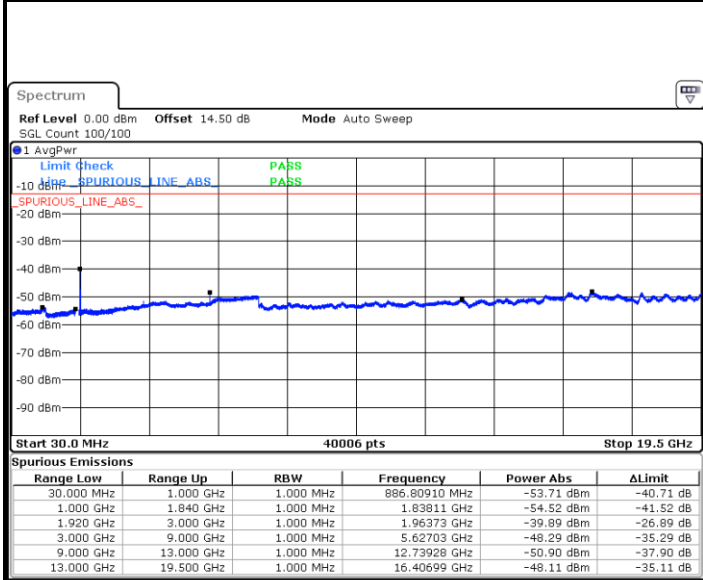
Lowest Channel / 16QAM





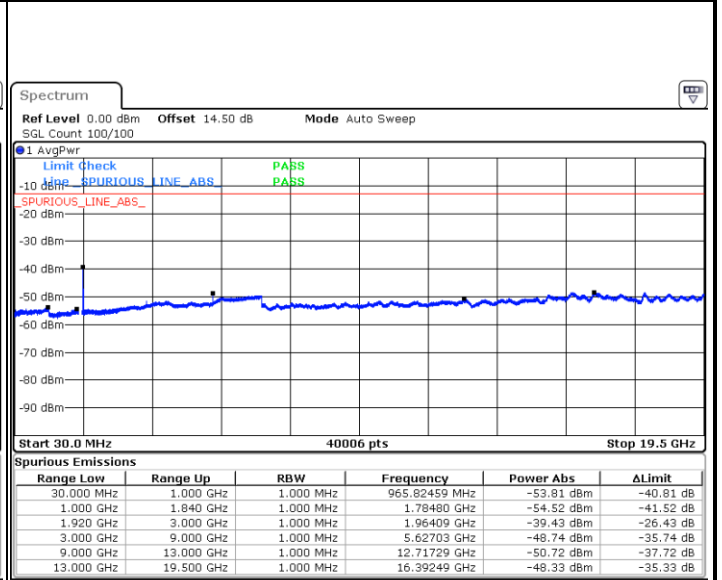
LTE Band 2 / 10MHz

Middle Channel / QPSK



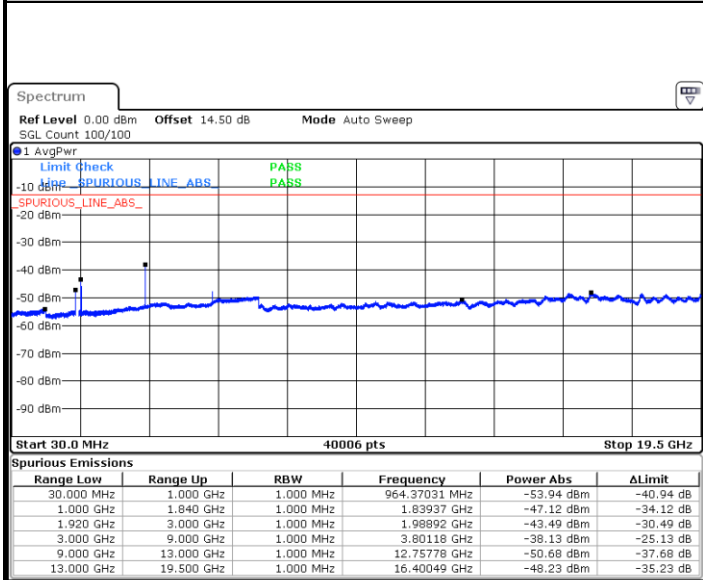
Date: 14.MAR.2020 12:44:31

Middle Channel / 16QAM



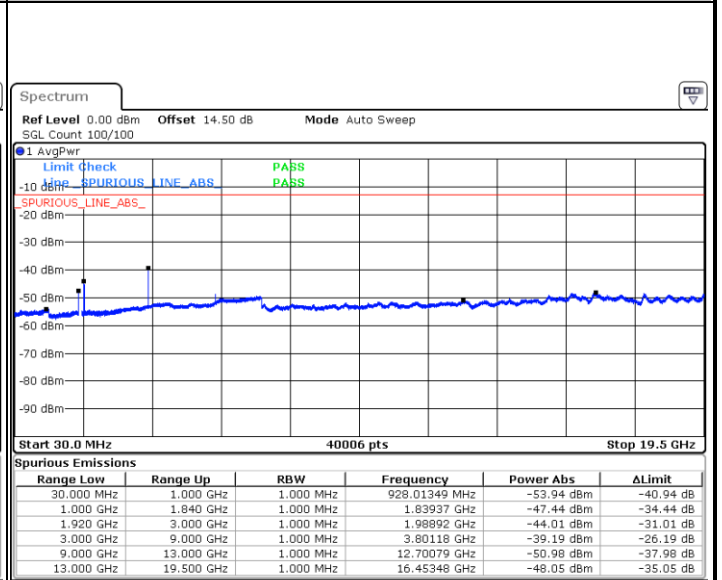
Date: 14.MAR.2020 12:45:07

Highest Channel / QPSK



Date: 14.MAR.2020 12:48:43

Highest Channel / 16QAM



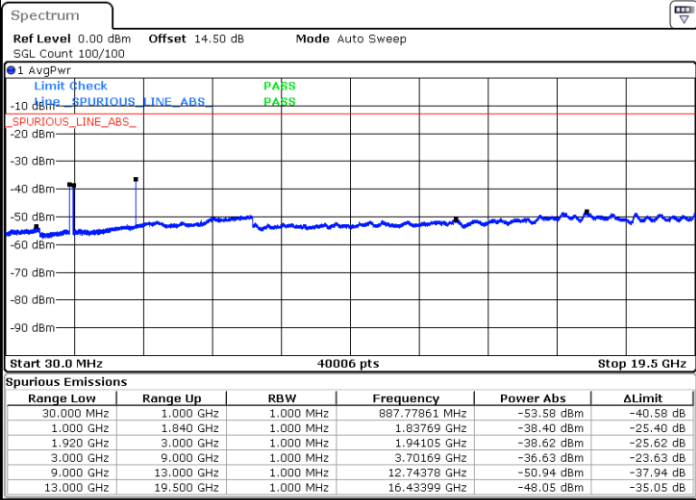
Date: 14.MAR.2020 12:49:19



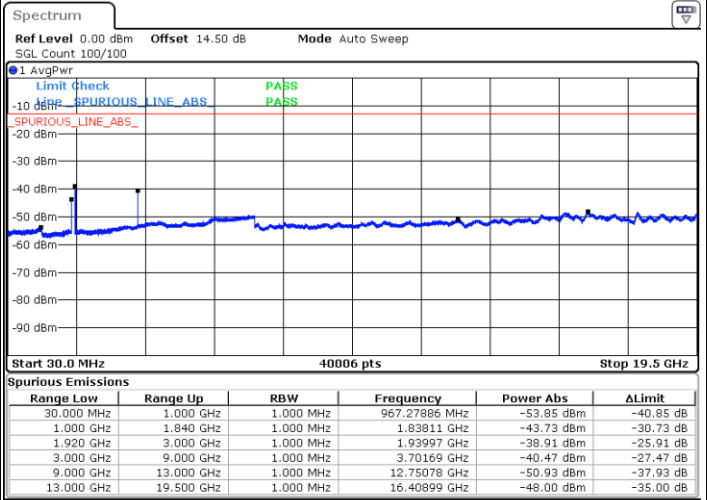
LTE Band 2 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



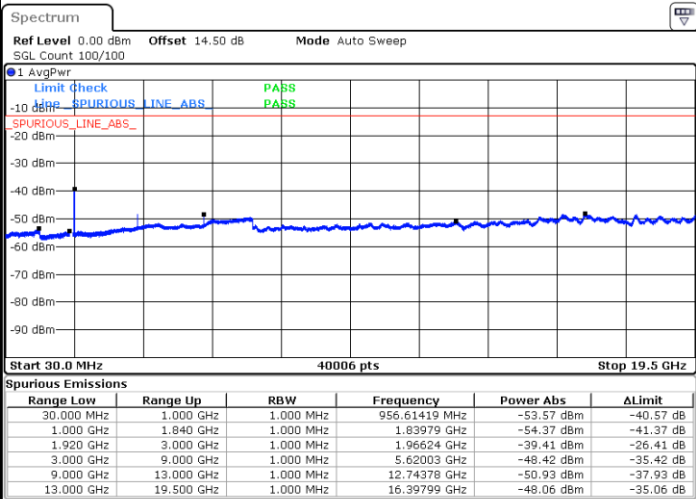
Date: 14.MAR.2020 13:02:38



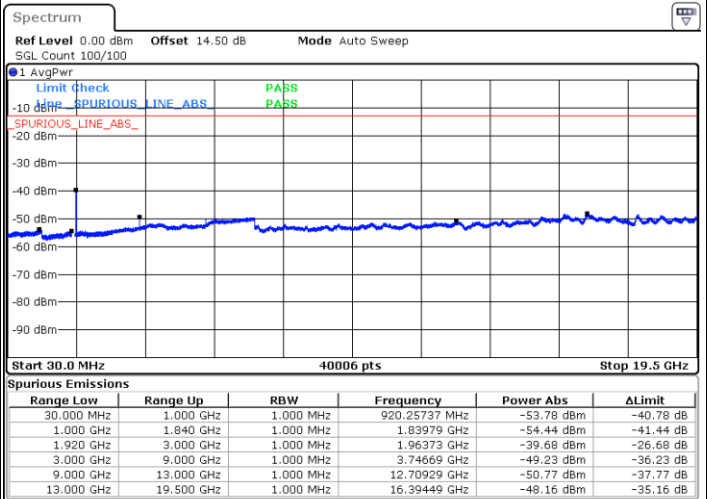
Date: 14.MAR.2020 13:03:14

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 14.MAR.2020 13:04:34

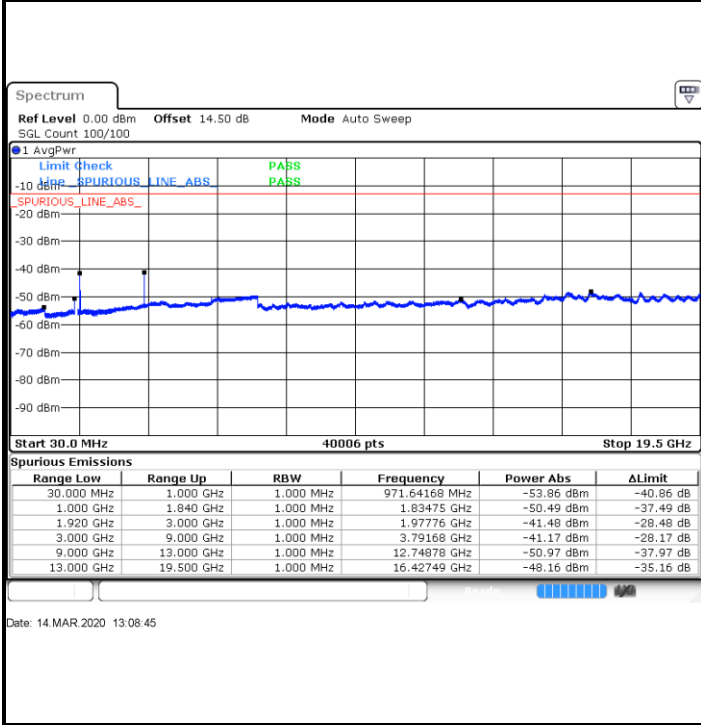


Date: 14.MAR.2020 13:05:10

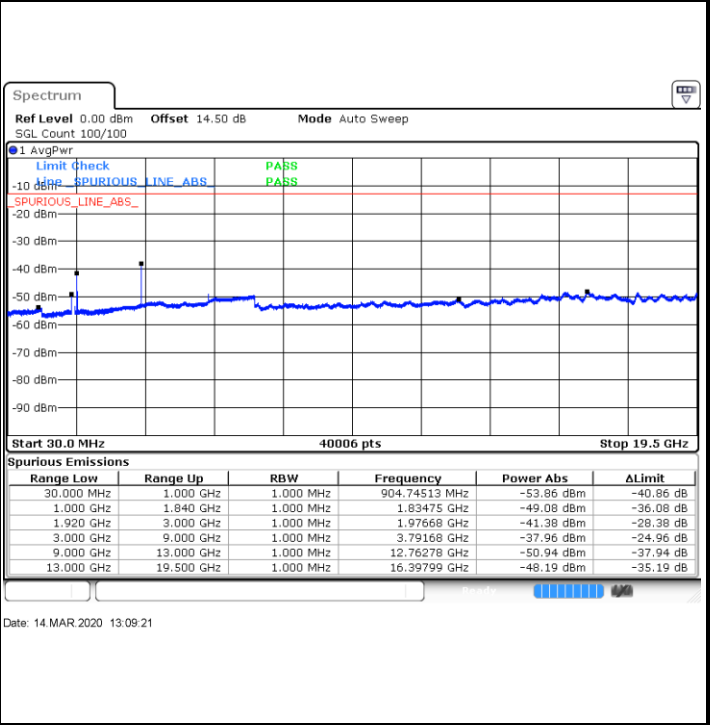


LTE Band 2 / 15MHz

Highest Channel / QPSK

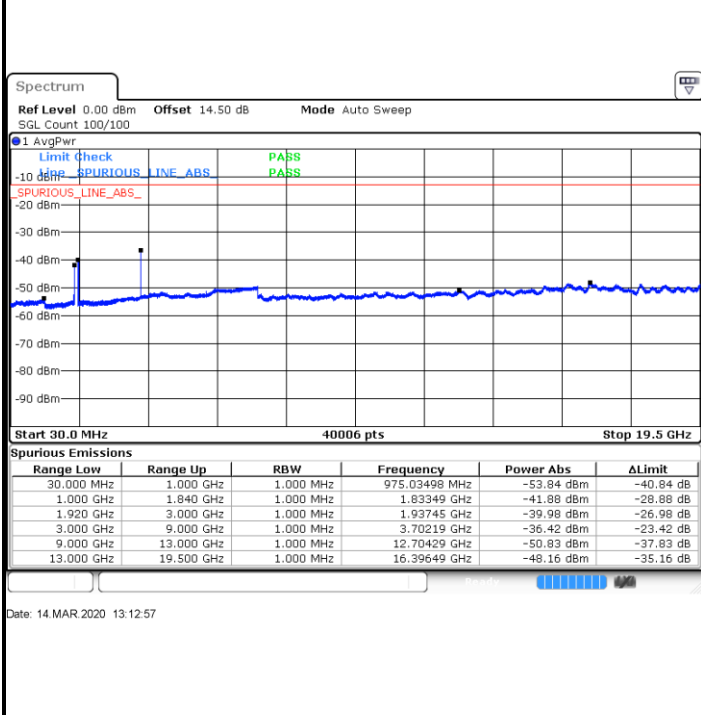


Highest Channel / 16QAM

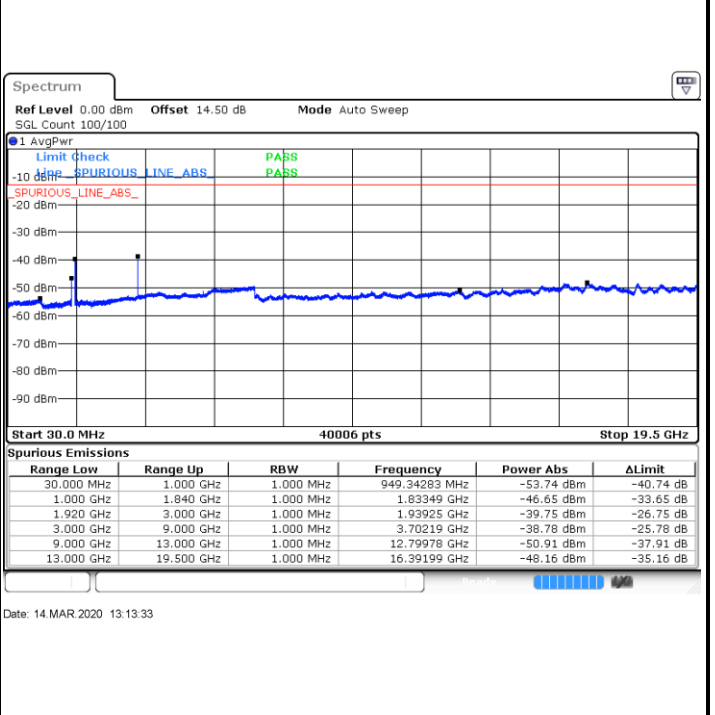


LTE Band 2 / 20MHz

Lowest Channel / QPSK



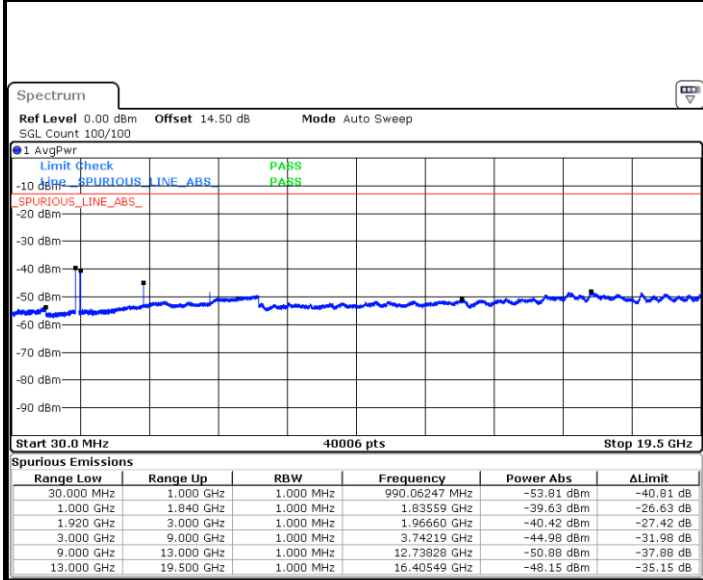
Lowest Channel / 16QAM





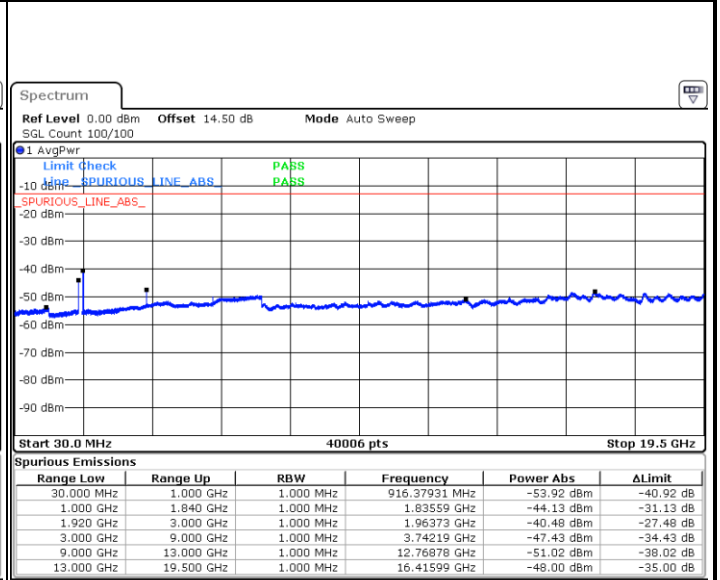
LTE Band 2 / 20MHz

Middle Channel / QPSK



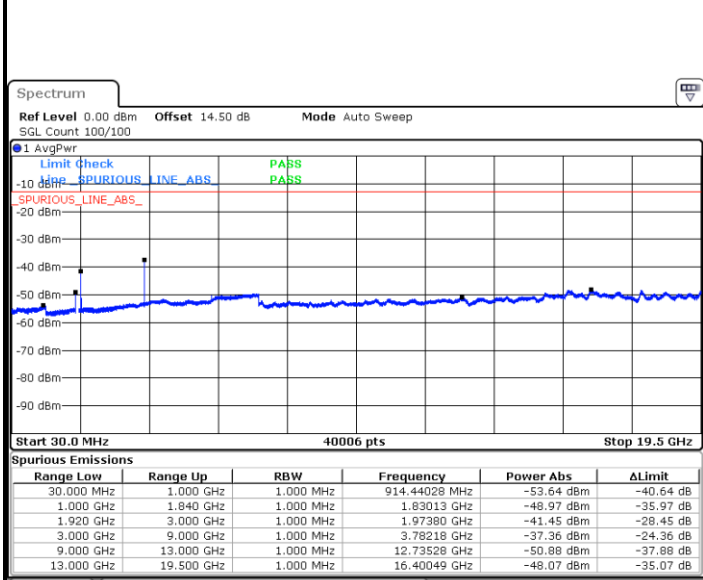
Date: 14.MAR.2020 13:14:53

Middle Channel / 16QAM



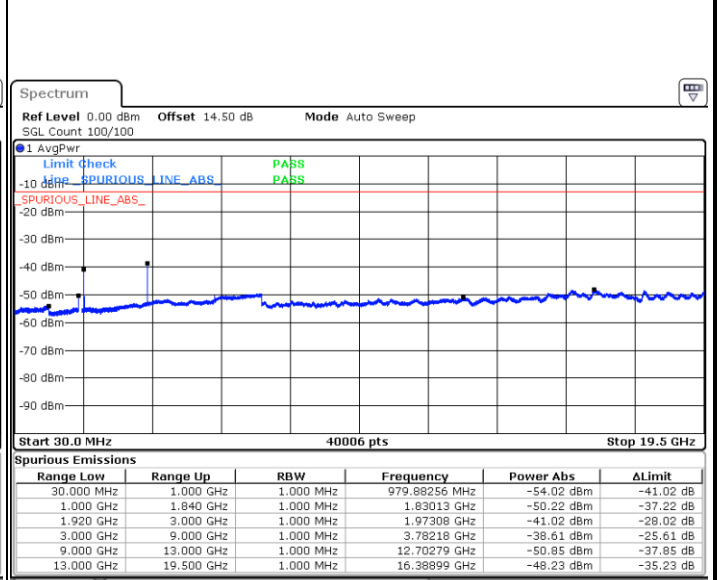
Date: 14.MAR.2020 13:15:29

Highest Channel / QPSK



Date: 14.MAR.2020 13:19:04

Highest Channel / 16QAM



Date: 14.MAR.2020 13:19:40



Frequency Stability

Test Conditions		LTE Band 2 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0093	PASS
40	Normal Voltage	0.0062	
30	Normal Voltage	0.0011	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0151	
0	Normal Voltage	0.0137	
-10	Normal Voltage	0.0184	
-20	Normal Voltage	0.0133	
-30	Normal Voltage	0.0160	
20	Maximum Voltage	0.0126	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0148	

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 4

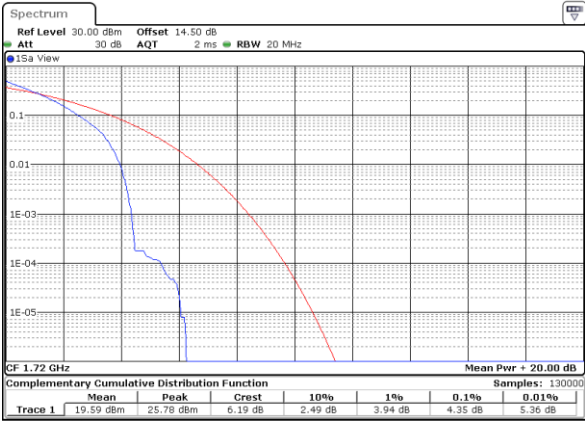
Peak-to-Average Ratio

Mode	LTE Band 4 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.35	4.93	5.74	6.06	PASS
Middle CH	4.61	4.78	6.00	5.94	
Highest CH	4.67	5.01	5.65	6.14	



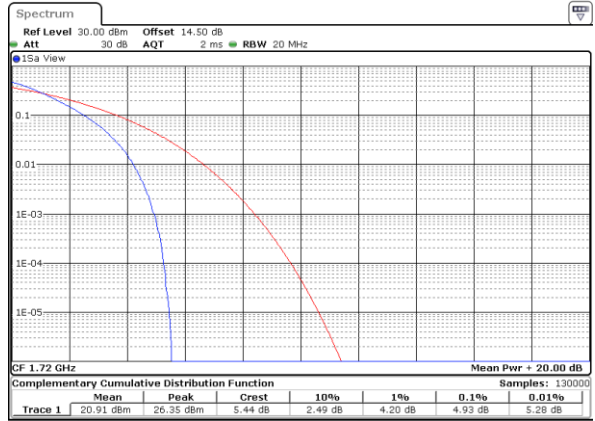
LTE Band 4 / 20MHz / QPSK

Lowest Channel / 1RB



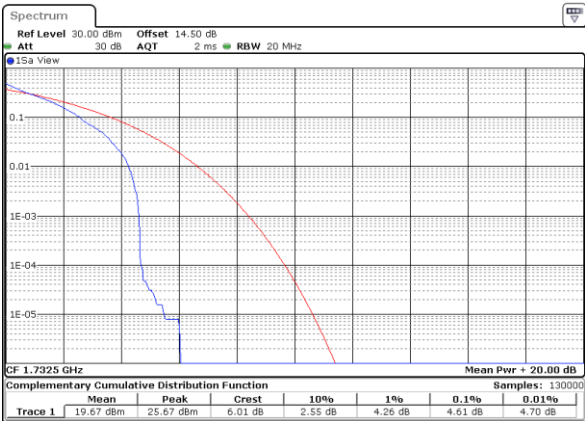
Date: 21.MAR.2020 02:27:23

Lowest Channel / Full RB



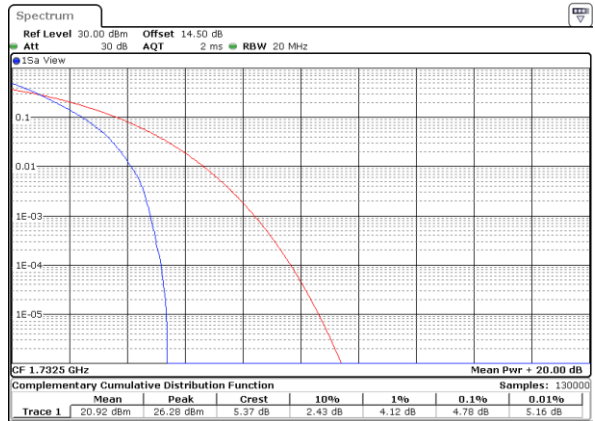
Date: 21.MAR.2020 02:29:47

Middle Channel / 1RB



Date: 21.MAR.2020 02:26:56

Middle Channel / Full RB



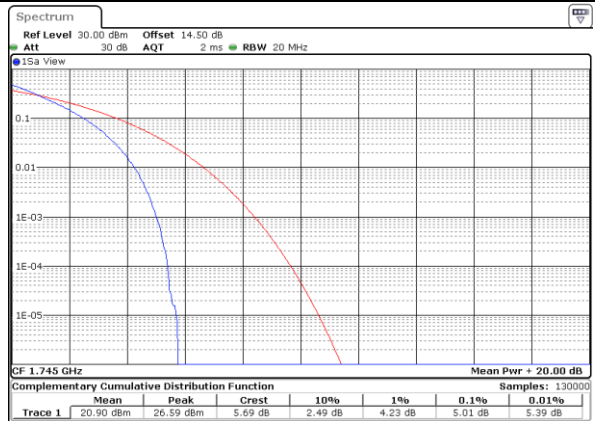
Date: 21.MAR.2020 02:25:55

Highest Channel / 1RB



Date: 21.MAR.2020 02:31:17

Highest Channel / Full RB

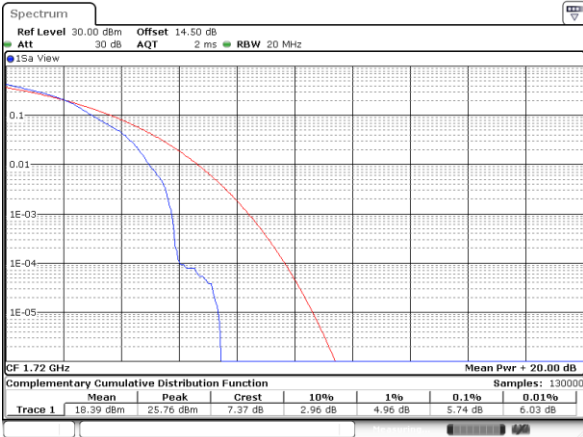


Date: 21.MAR.2020 02:30:13



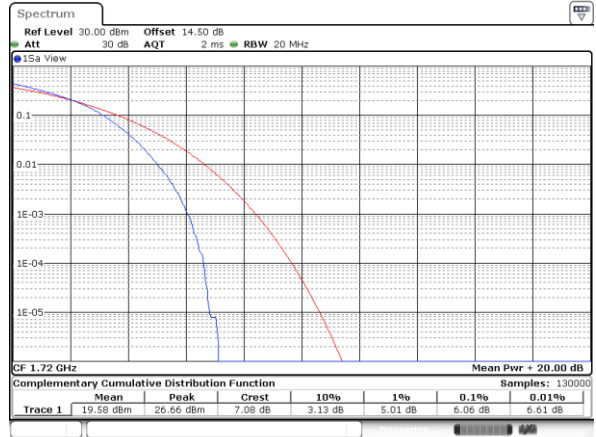
LTE Band 4 / 20MHz / 16QAM

Lowest Channel / 1RB



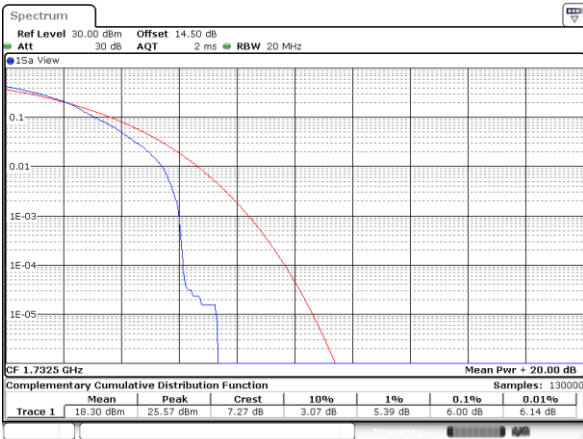
Date: 21.MAR.2020 02:28:35

Lowest Channel / Full RB



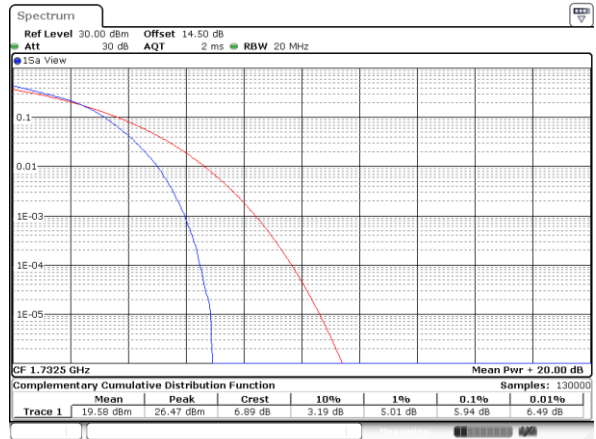
Date: 21.MAR.2020 02:29:32

Middle Channel / 1RB



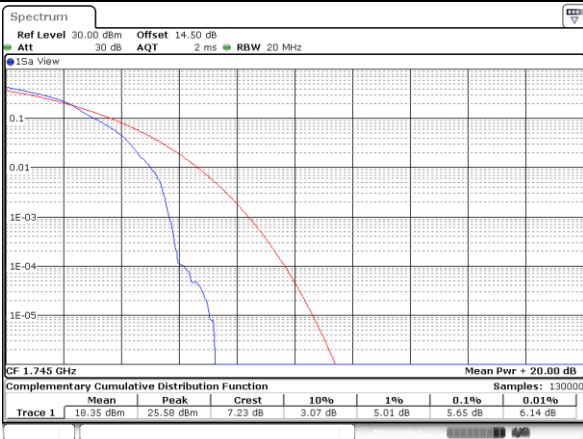
Date: 21.MAR.2020 02:26:37

Middle Channel / Full RB



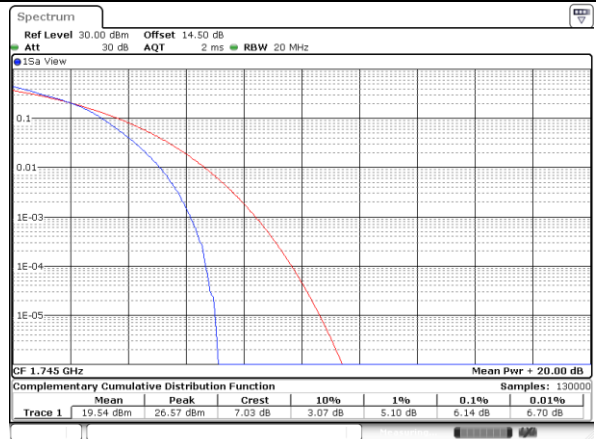
Date: 21.MAR.2020 02:26:21

Highest Channel / 1RB



Date: 21.MAR.2020 02:31:05

Highest Channel / Full RB



Date: 21.MAR.2020 02:30:29



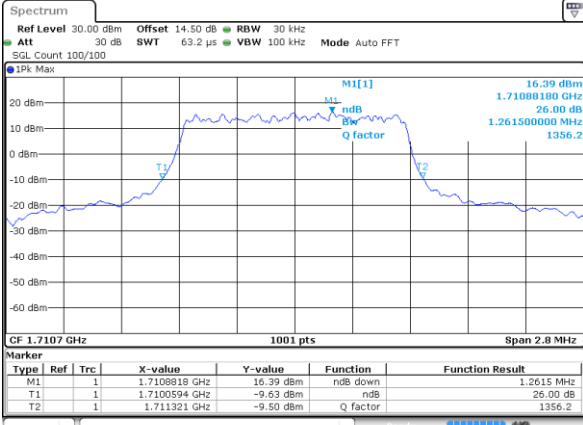
26dB Bandwidth

Mode	LTE Band 4 : 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	1.26	1.27	3.14	3.05	4.95	4.91	9.75	10.33	14.54	14.45	19.22	19.02
Middle CH	1.27	1.24	3.12	3.03	5.14	5.33	9.71	10.05	14.6	14.45	19.42	19.06
Highest CH	1.24	1.31	3.06	3.15	5.16	4.84	9.81	9.93	14.51	14.21	19.02	19.18



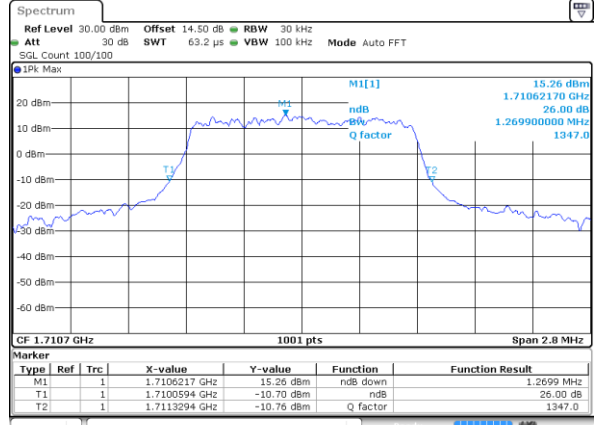
LTE Band 4

Lowest Channel / 1.4MHz / QPSK



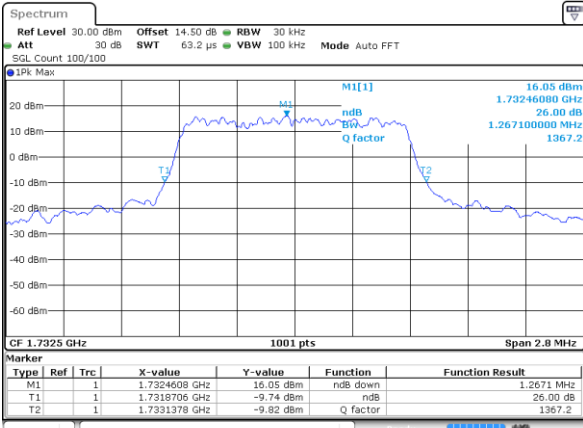
Date: 14 MAR 2020 18:34:17

Lowest Channel / 1.4MHz / 16QAM



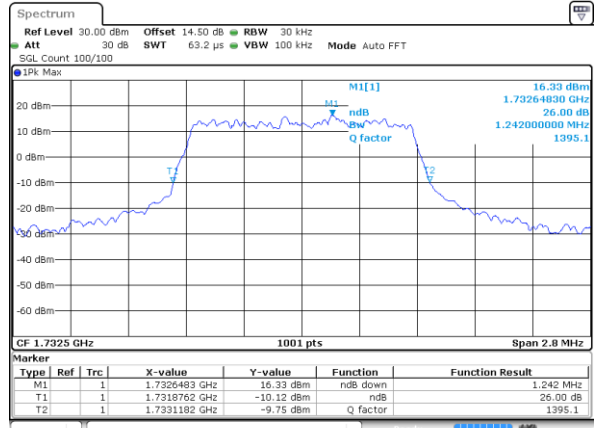
Date: 14 MAR 2020 18:34:28

Middle Channel / 1.4MHz / QPSK



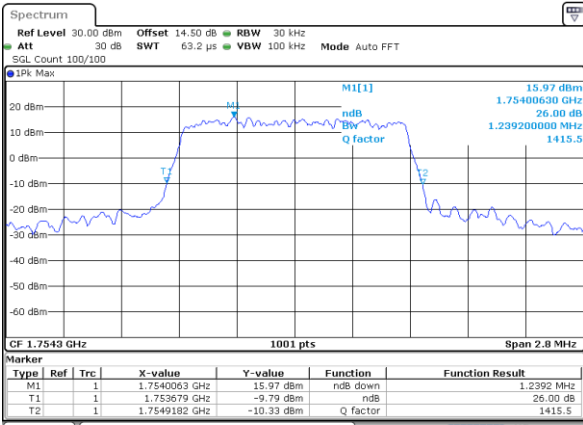
Date: 14 MAR 2020 18:40:18

Middle Channel / 1.4MHz / 16QAM



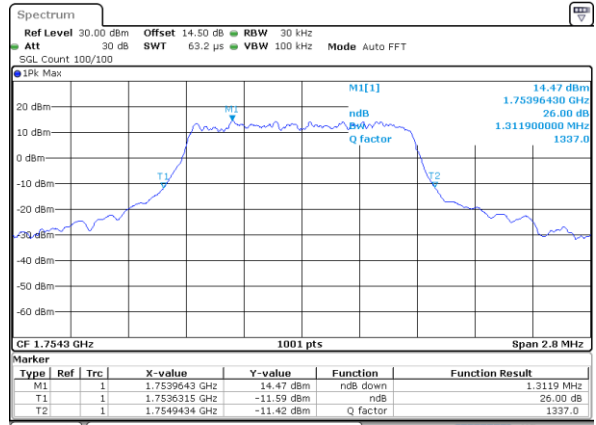
Date: 14 MAR 2020 18:40:29

Highest Channel / 1.4MHz / QPSK



Date: 14 MAR 2020 18:42:10

Highest Channel / 1.4MHz / 16QAM

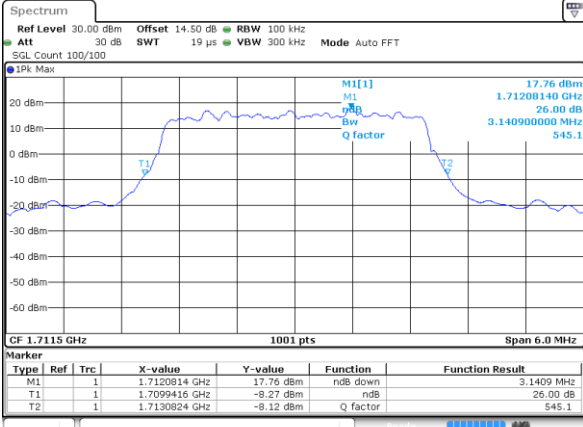


Date: 14 MAR 2020 18:42:21



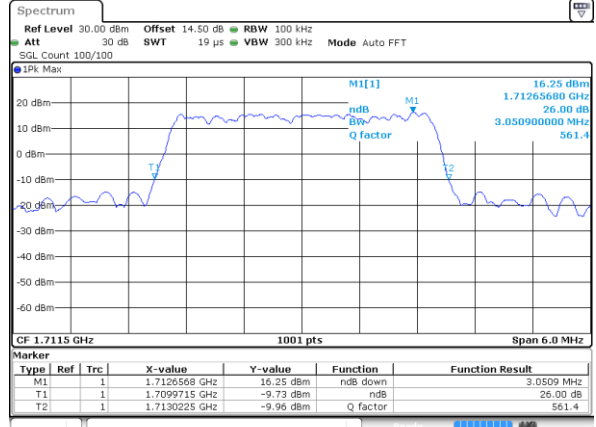
LTE Band 4

Lowest Channel / 3MHz / QPSK



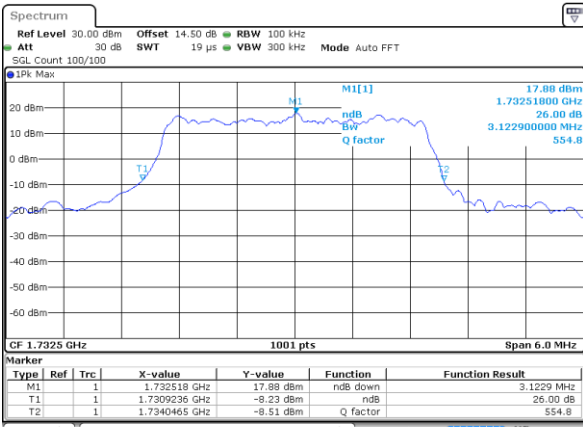
Date: 14 MAR 2020 17:04:52

Lowest Channel / 3MHz / 16QAM



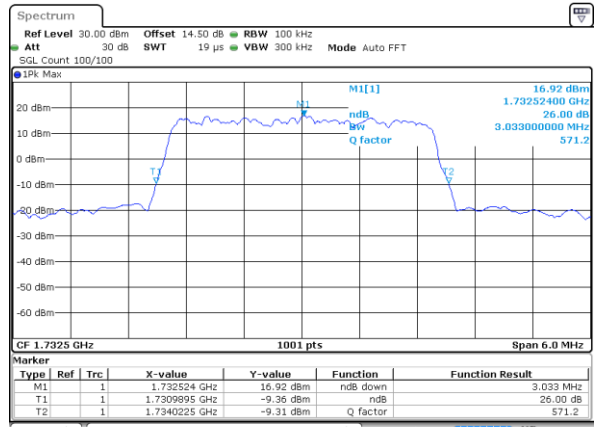
Date: 14 MAR 2020 17:05:04

Middle Channel / 3MHz / QPSK



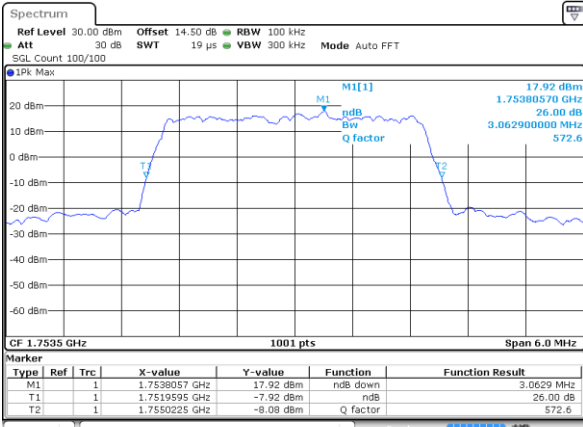
Date: 14 MAR 2020 17:10:41

Middle Channel / 3MHz / 16QAM



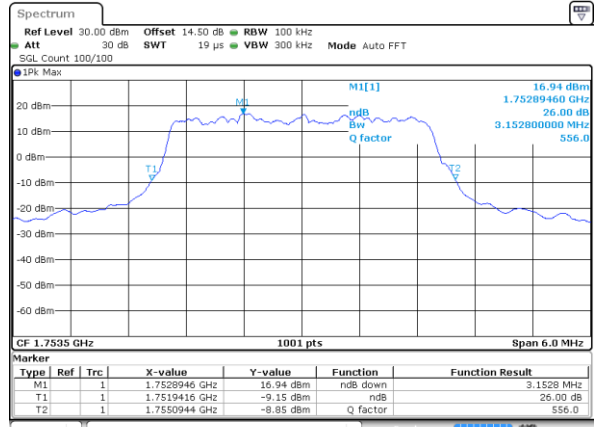
Date: 14 MAR 2020 17:10:52

Highest Channel / 3MHz / QPSK



Date: 14 MAR 2020 17:12:34

Highest Channel / 3MHz / 16QAM

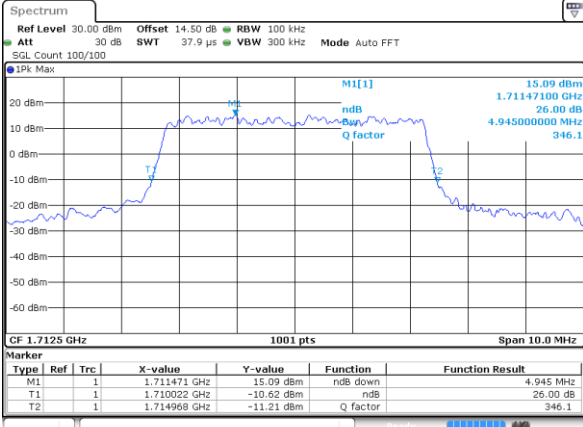


Date: 14 MAR 2020 17:12:45



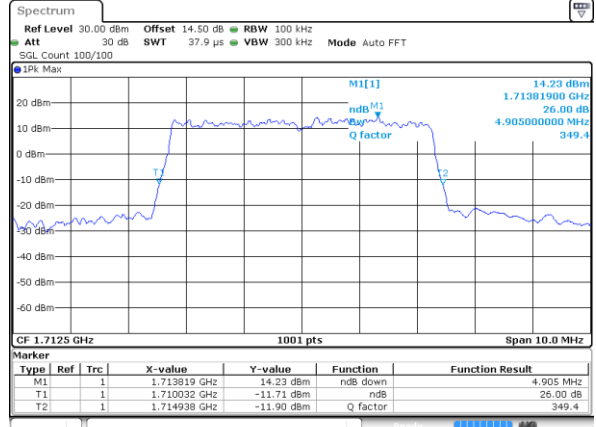
LTE Band 4

Lowest Channel / 5MHz / QPSK



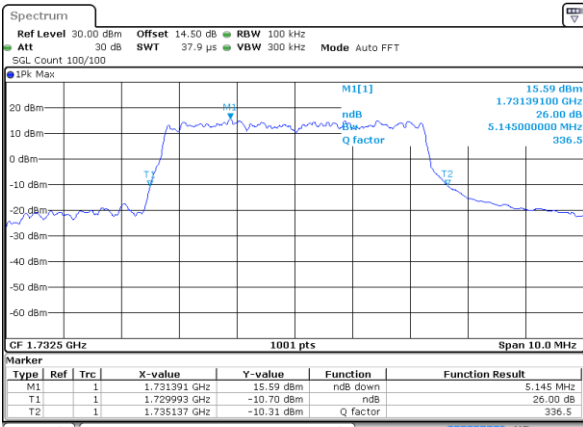
Date: 14 MAR 2020 17:18:22

Lowest Channel / 5MHz / 16QAM



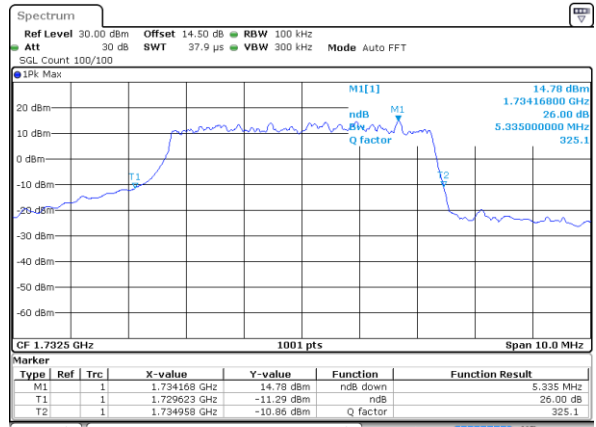
Date: 14 MAR 2020 17:18:33

Middle Channel / 5MHz / QPSK



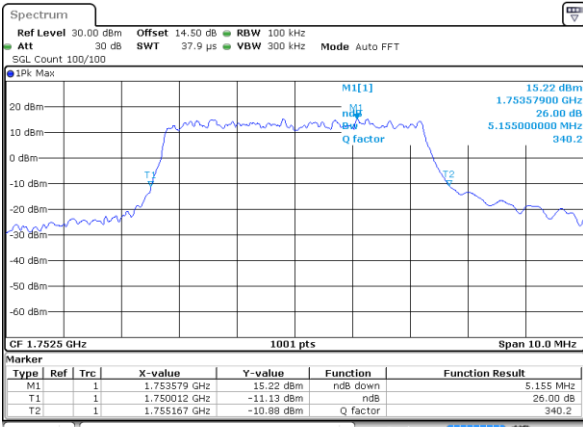
Date: 14 MAR 2020 17:24:10

Middle Channel / 5MHz / 16QAM



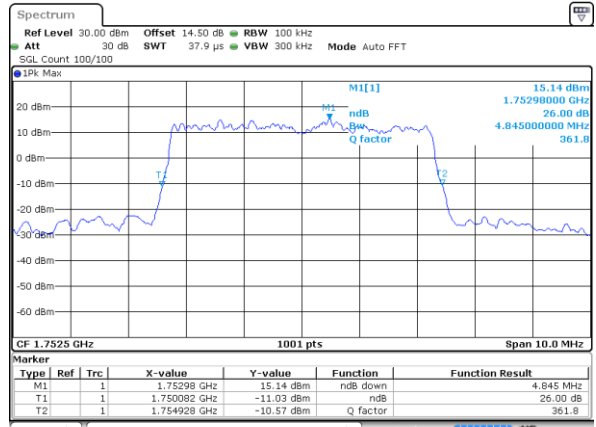
Date: 14 MAR 2020 17:24:21

Highest Channel / 5MHz / QPSK



Date: 14 MAR 2020 17:26:03

Highest Channel / 5MHz / 16QAM

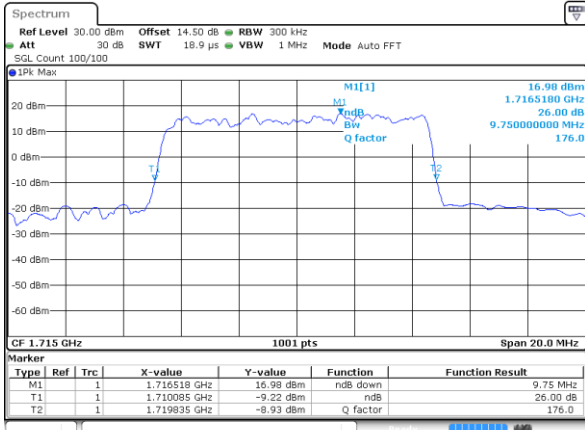


Date: 14 MAR 2020 17:26:14



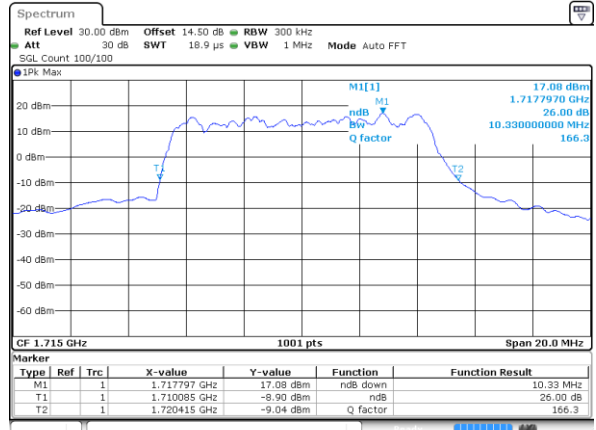
LTE Band 4

Lowest Channel / 10MHz / QPSK



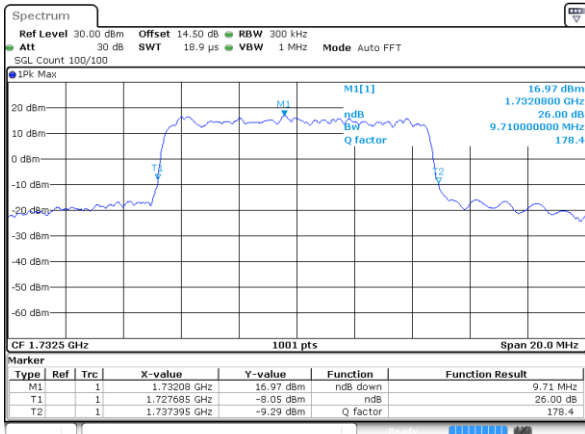
Date: 14 MAR 2020 17:31:51

Lowest Channel / 10MHz / 16QAM



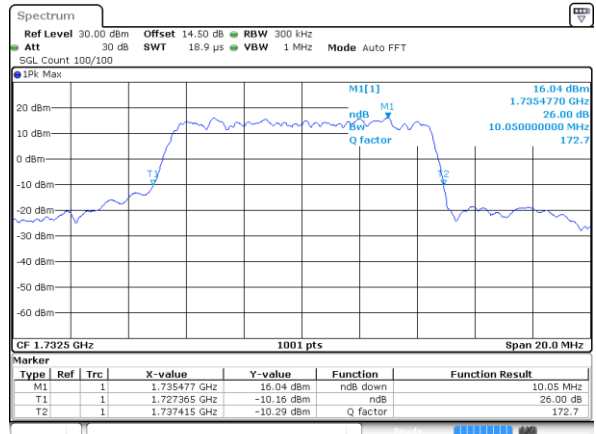
Date: 14 MAR 2020 17:32:02

Middle Channel / 10MHz / QPSK



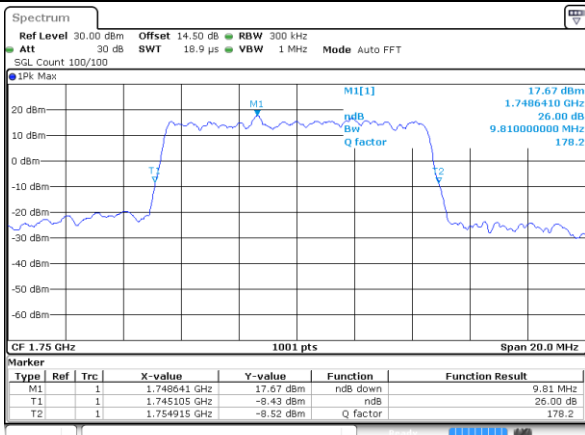
Date: 14 MAR 2020 17:37:39

Middle Channel / 10MHz / 16QAM



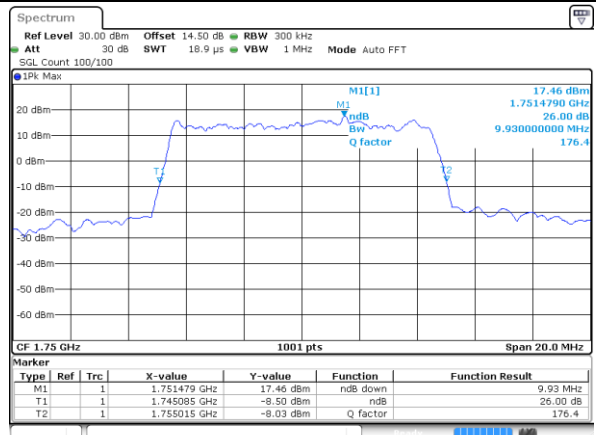
Date: 14 MAR 2020 17:37:50

Highest Channel / 10MHz / QPSK



Date: 14 MAR 2020 17:39:32

Highest Channel / 10MHz / 16QAM

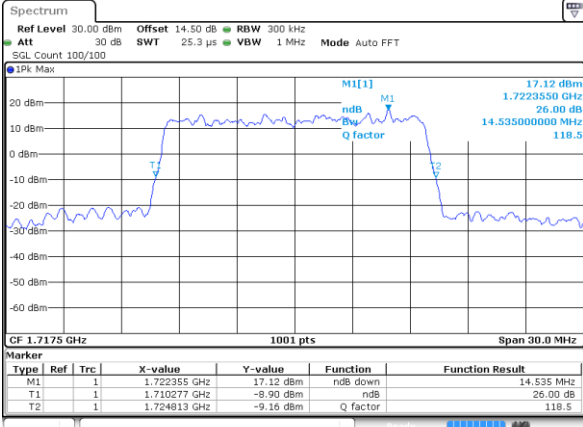


Date: 14 MAR 2020 17:39:43



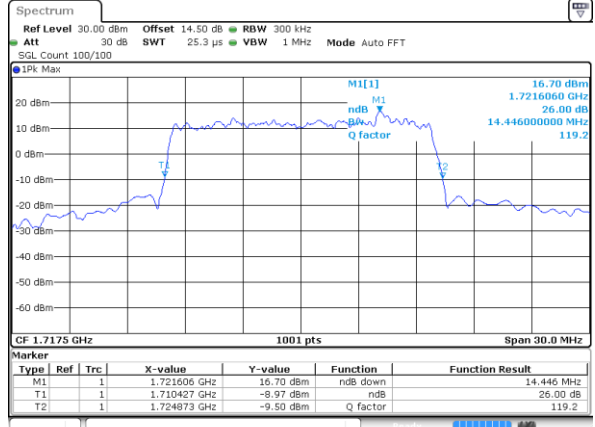
LTE Band 4

Lowest Channel / 15MHz / QPSK



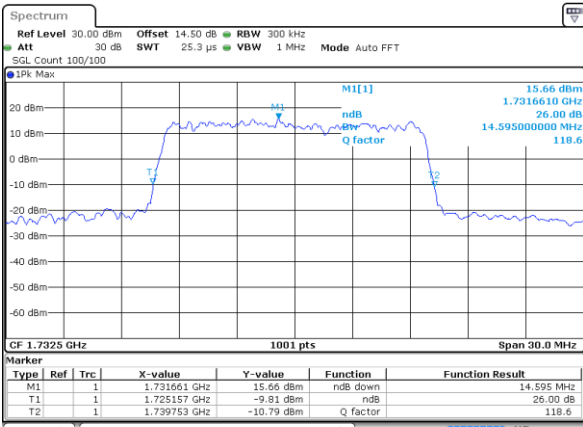
Date: 14 MAR 2020 17:45:20

Lowest Channel / 15MHz / 16QAM



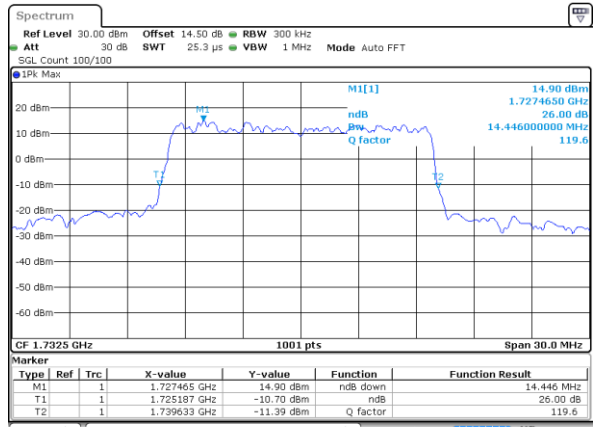
Date: 14 MAR 2020 17:45:31

Middle Channel / 15MHz / QPSK



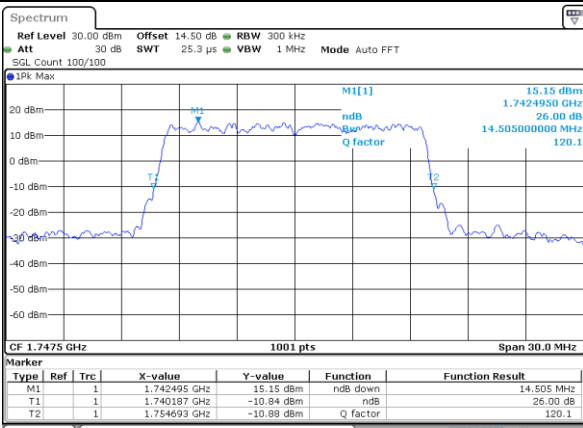
Date: 14 MAR 2020 17:51:08

Middle Channel / 15MHz / 16QAM



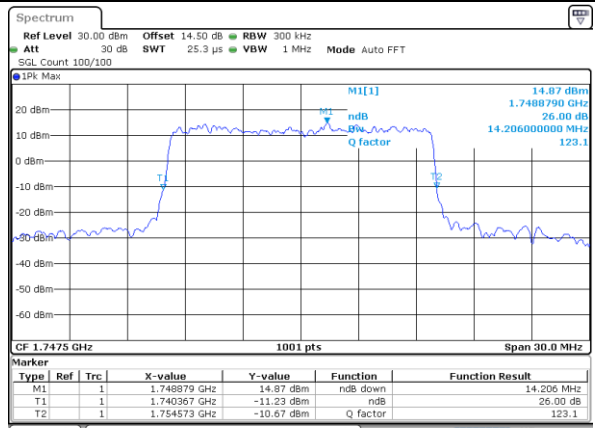
Date: 14 MAR 2020 17:51:19

Highest Channel / 15MHz / QPSK



Date: 14 MAR 2020 17:53:01

Highest Channel / 15MHz / 16QAM

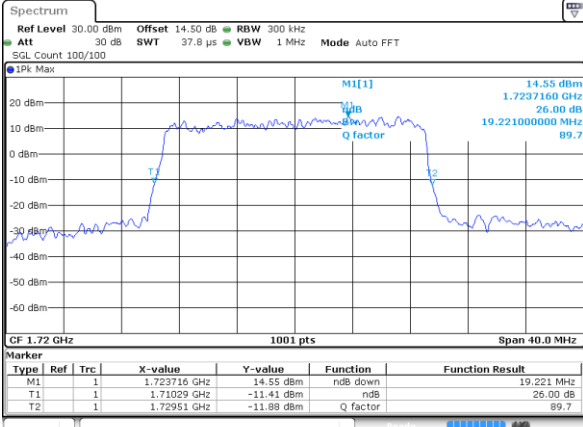


Date: 14 MAR 2020 17:53:12



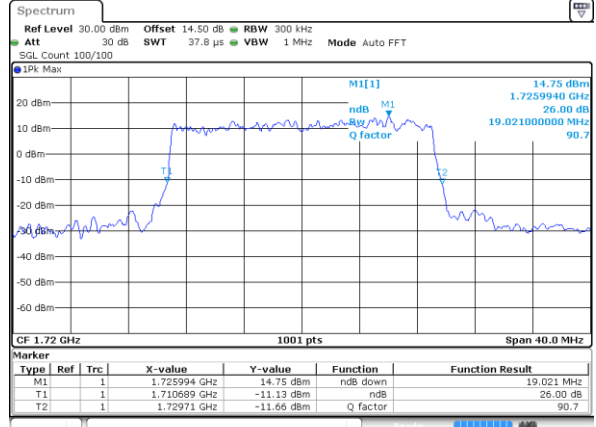
LTE Band 4

Lowest Channel / 20MHz / QPSK



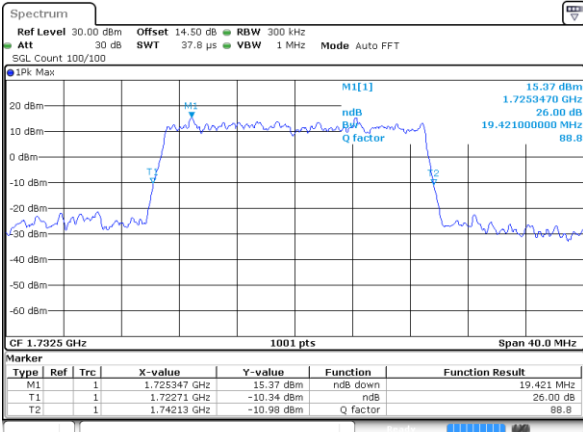
Date: 14 MAR 2020 17:58:49

Lowest Channel / 20MHz / 16QAM



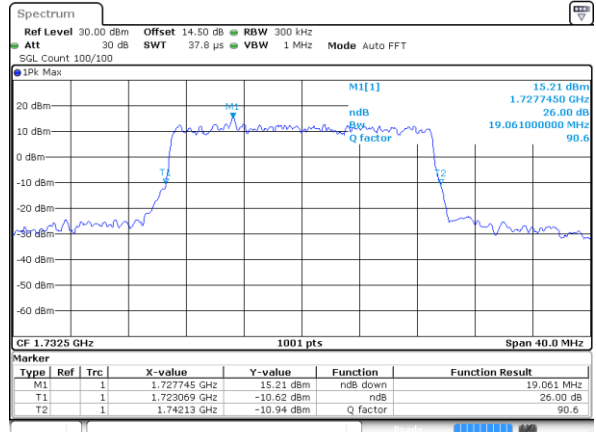
Date: 14 MAR 2020 17:59:00

Middle Channel / 20MHz / QPSK



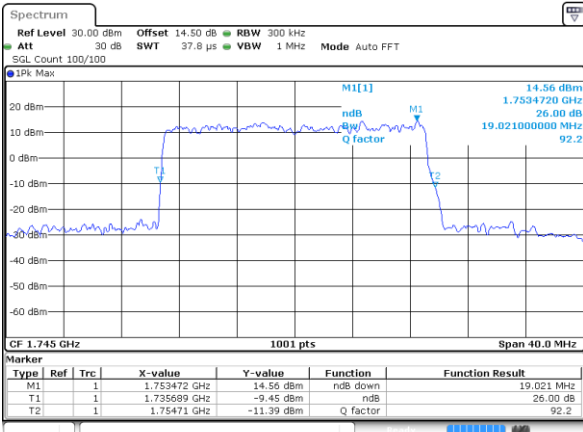
Date: 14 MAR 2020 18:04:37

Middle Channel / 20MHz / 16QAM



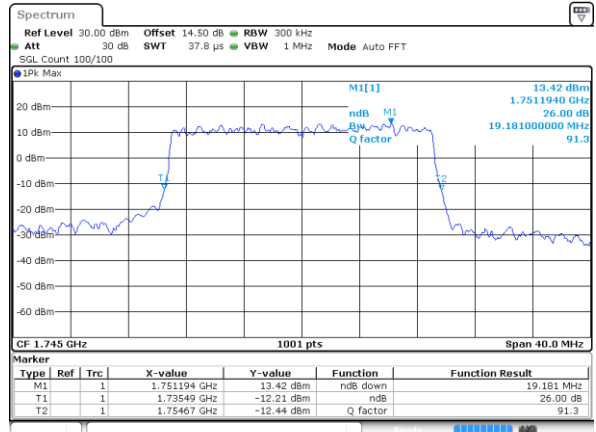
Date: 14 MAR 2020 18:04:48

Highest Channel / 20MHz / QPSK



Date: 14 MAR 2020 18:06:30

Highest Channel / 20MHz / 16QAM



Date: 14 MAR 2020 18:06:41