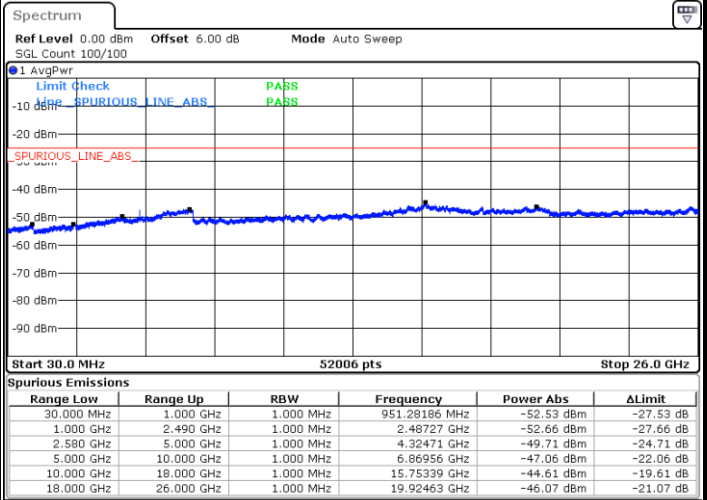
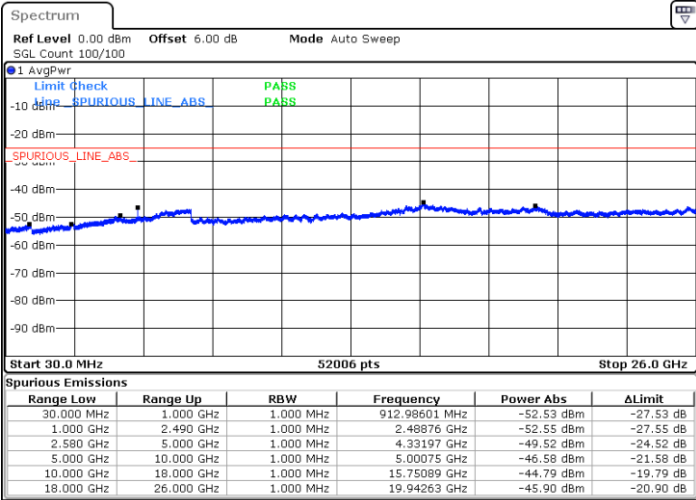




LTE Band 7 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

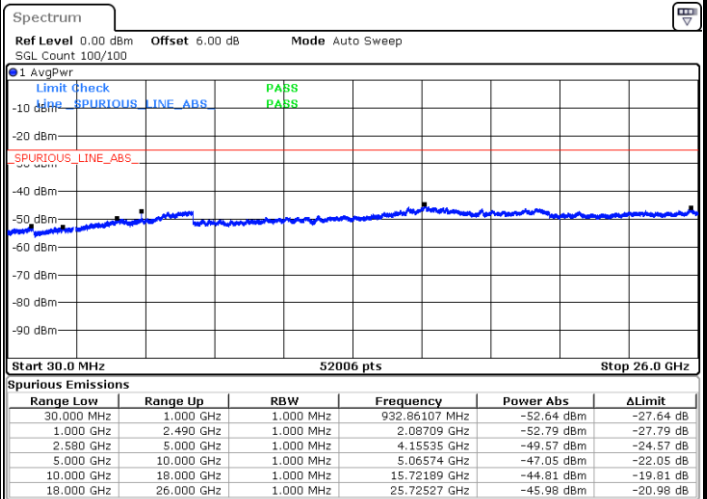
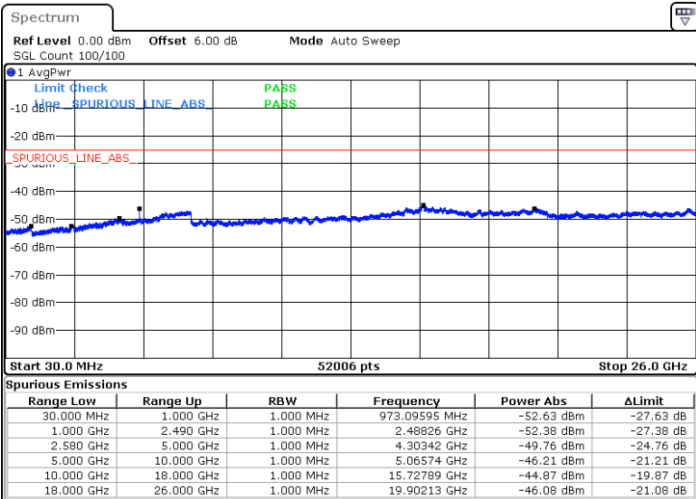


Date: 25.OCT.2019 22:47:06

Date: 25.OCT.2019 22:48:00

Middle Channel / QPSK

Middle Channel / 16QAM



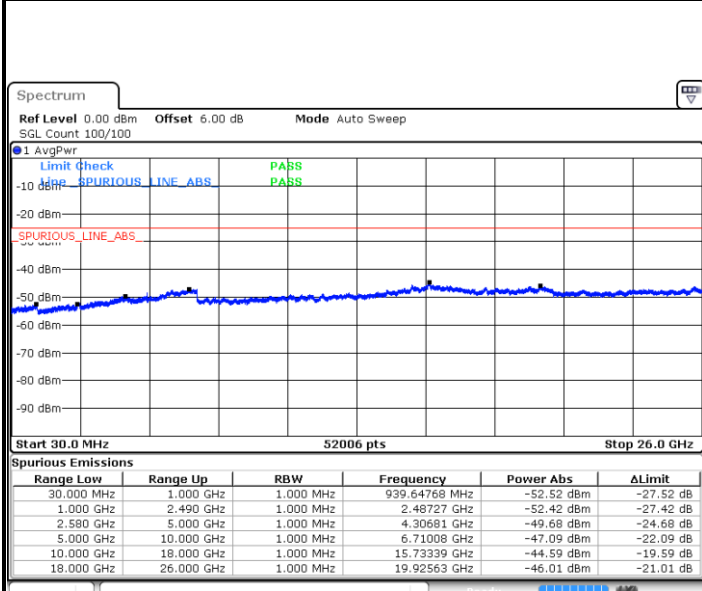
Date: 25.OCT.2019 22:49:48

Date: 25.OCT.2019 22:48:54



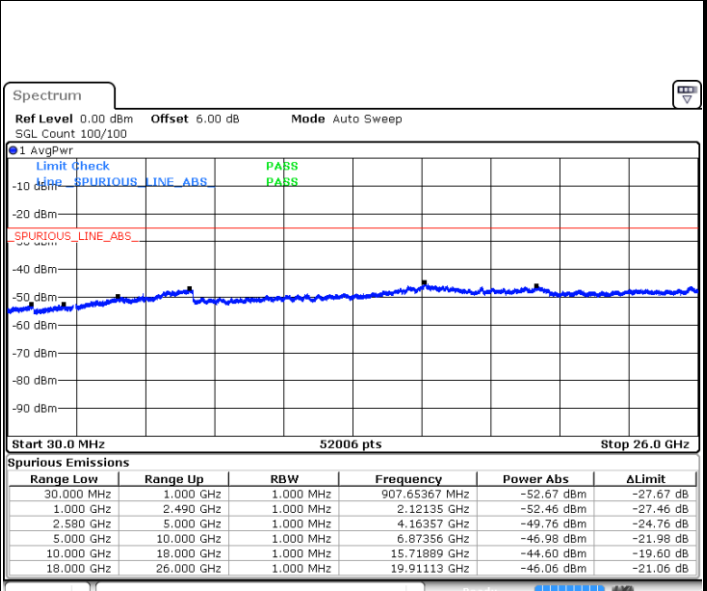
LTE Band 7 / 5MHz

Highest Channel / QPSK



Date: 25.OCT.2019 22:50:42

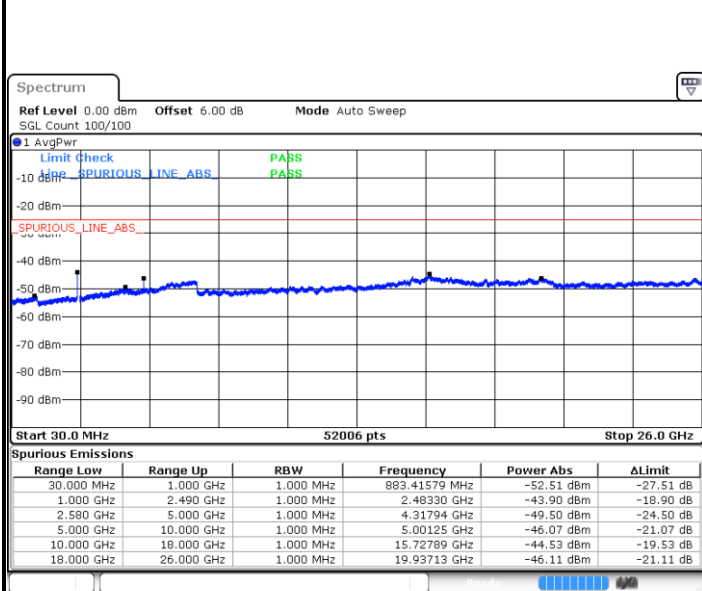
Highest Channel / 16QAM



Date: 25.OCT.2019 22:51:35

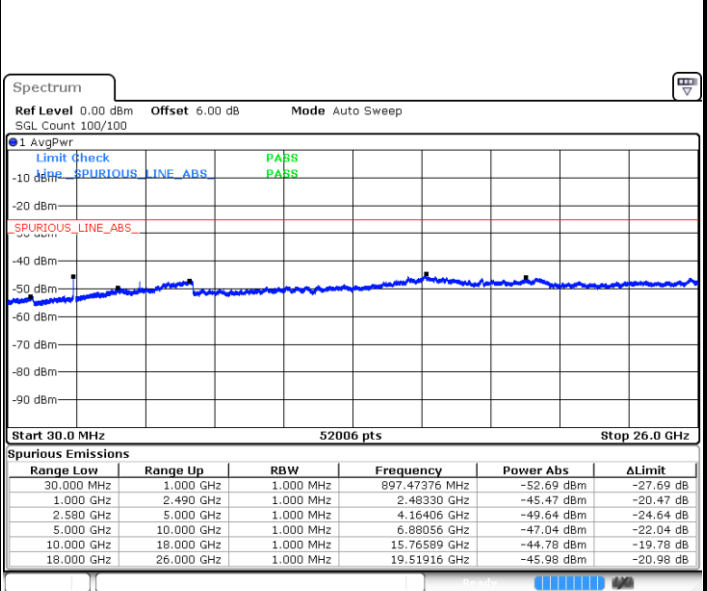
LTE Band 7 / 10MHz

Lowest Channel / QPSK



Date: 25.OCT.2019 23:03:32

Lowest Channel / 16QAM



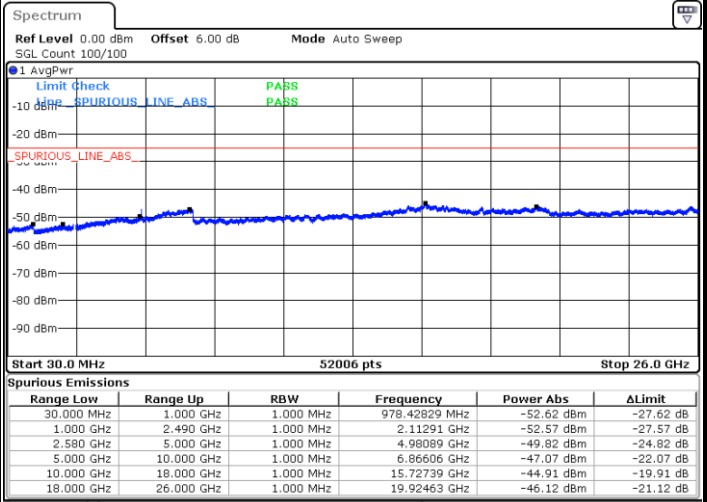
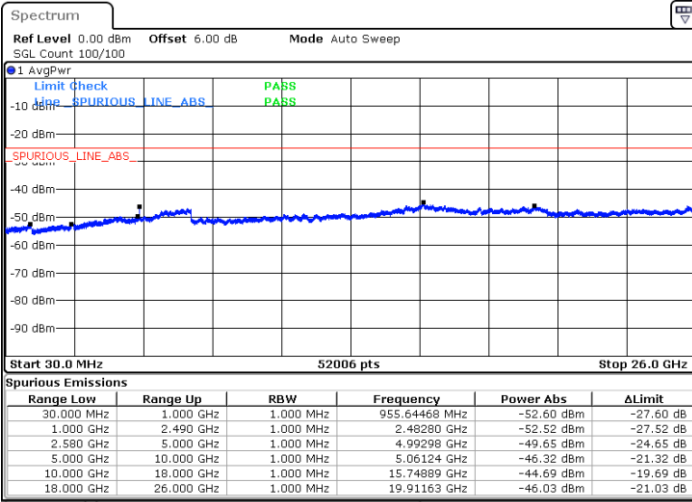
Date: 25.OCT.2019 23:04:26



LTE Band 7 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

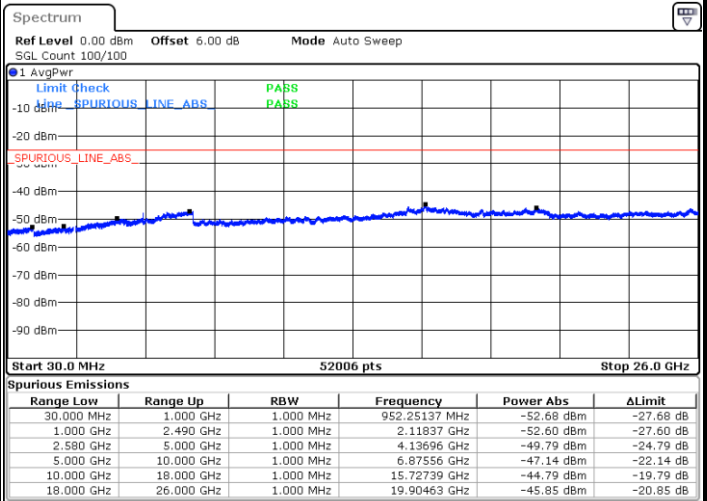
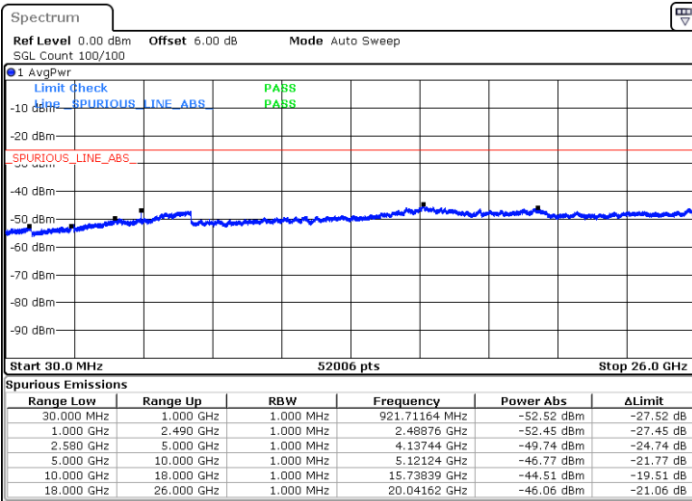


Date: 25.OCT.2019 23:06:14

Date: 25.OCT.2019 23:05:20

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 25.OCT.2019 23:07:08

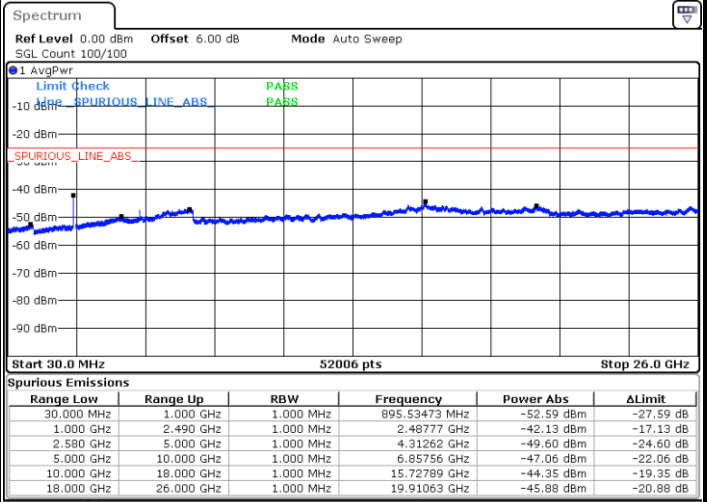
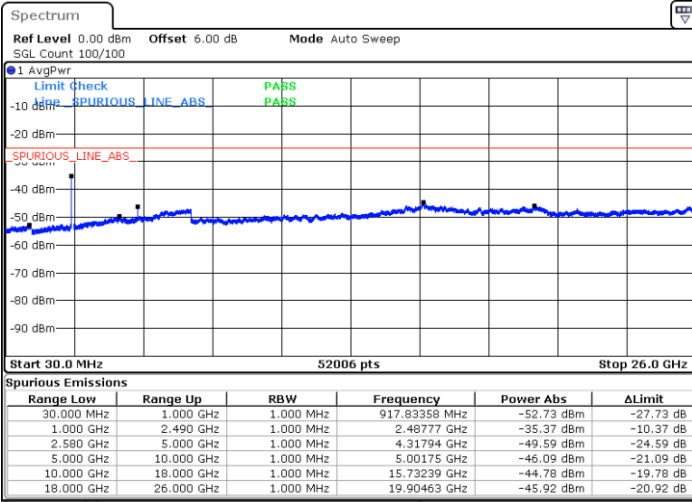
Date: 25.OCT.2019 23:08:01



LTE Band 7 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

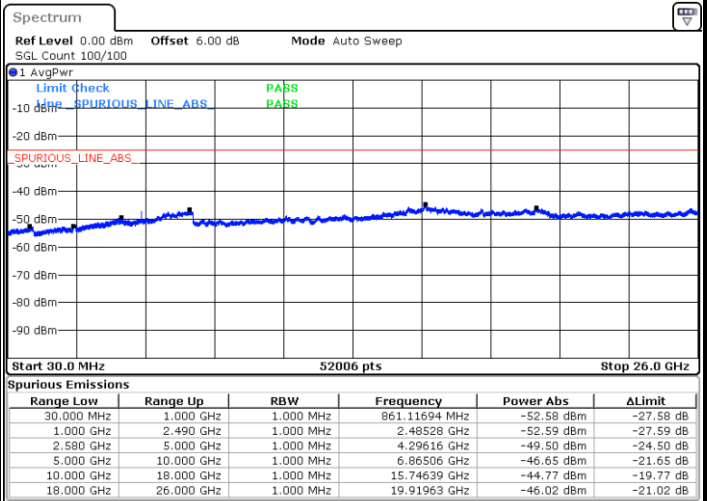
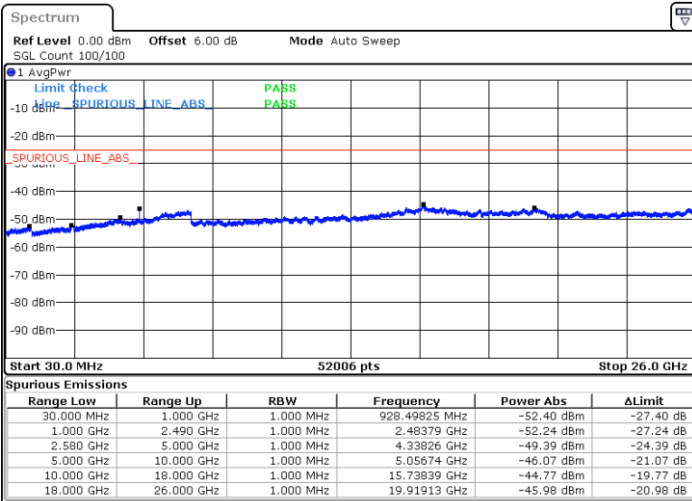


Date: 25.OCT.2019 23:38:43

Date: 25.OCT.2019 23:39:37

Middle Channel / QPSK

Middle Channel / 16QAM



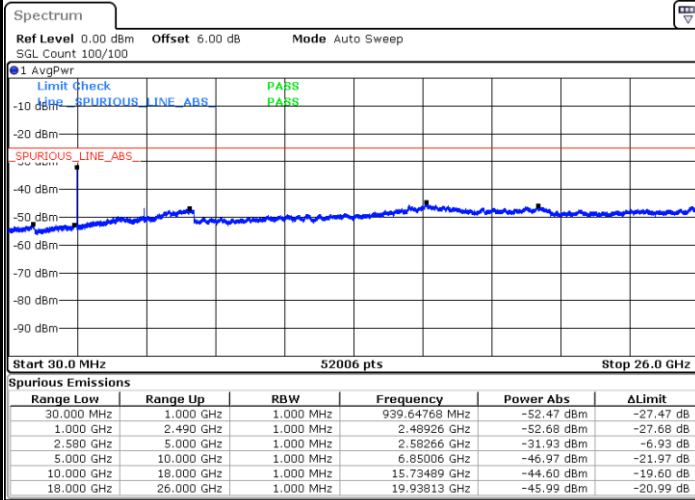
Date: 25.OCT.2019 23:41:24

Date: 25.OCT.2019 23:40:31



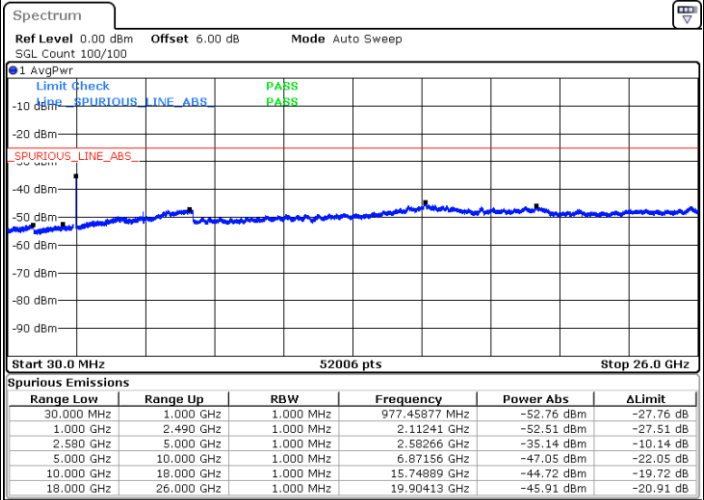
LTE Band7 / 15MHz

Highest Channel / QPSK



Date: 25.OCT.2019 23:42:18

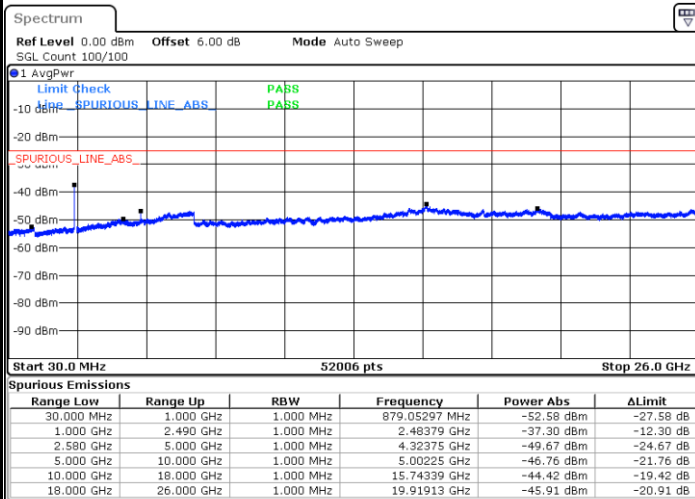
Highest Channel / 16QAM



Date: 25.OCT.2019 23:43:12

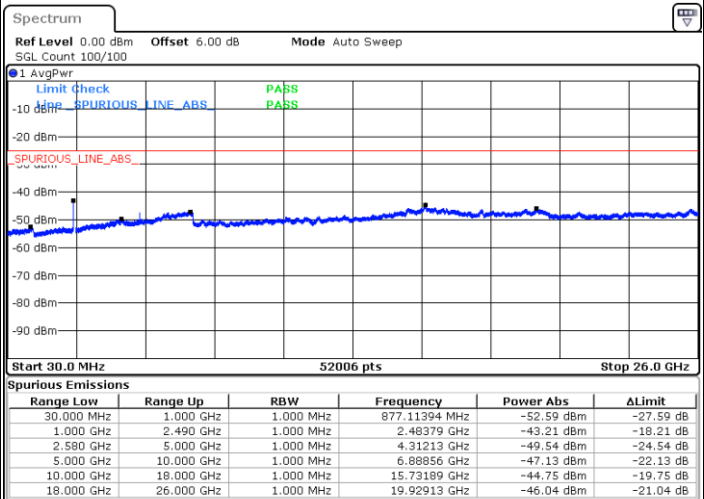
LTE Band 7 / 20MHz

Lowest Channel / QPSK



Date: 25.OCT.2019 23:55:10

Lowest Channel / 16QAM



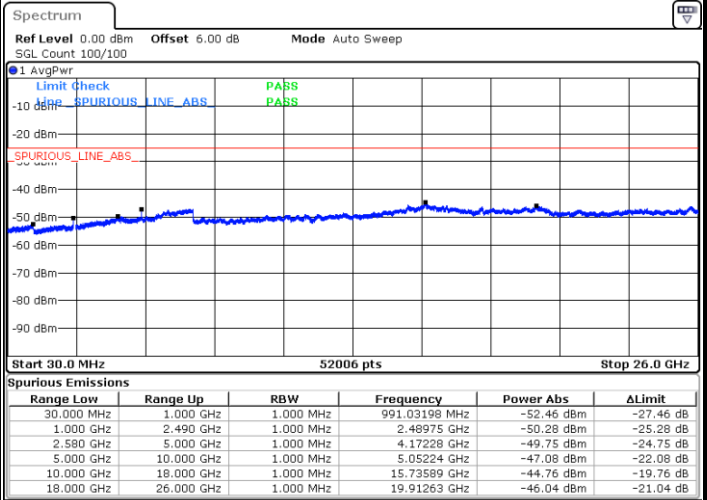
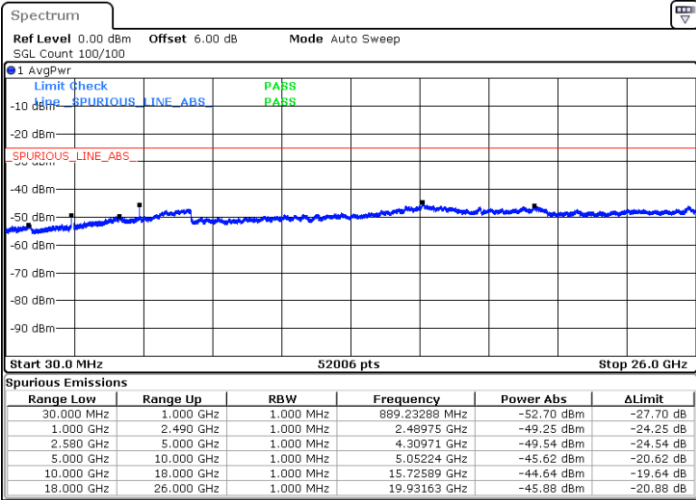
Date: 25.OCT.2019 23:56:03



LTE Band 7 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

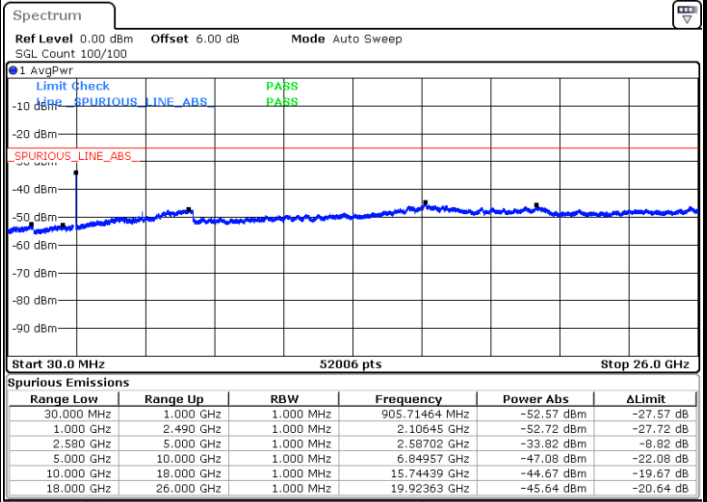
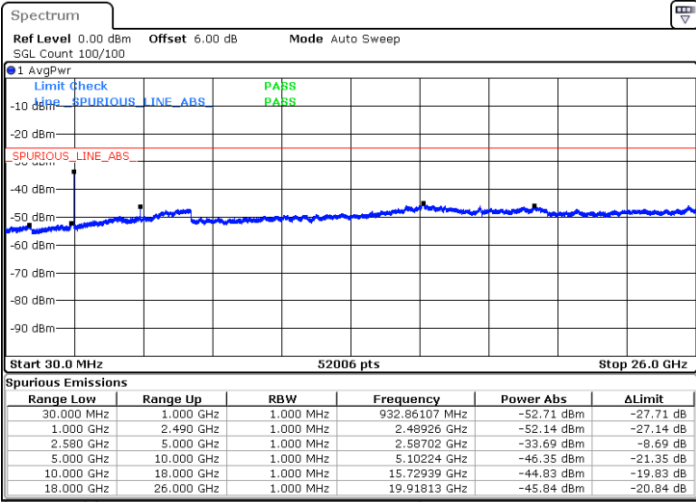


Date: 25.OCT.2019 23:57:51

Date: 25.OCT.2019 23:56:57

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 25.OCT.2019 23:58:45

Date: 25.OCT.2019 23:59:38



Frequency Stability

Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0001	PASS
40	Normal Voltage	0.0018	
30	Normal Voltage	0.0056	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0051	
0	Normal Voltage	0.0049	
-10	Normal Voltage	0.0047	
-20	Normal Voltage	0.0023	
-30	Normal Voltage	0.0010	
20	Maximum Voltage	0.0051	
20	Normal Voltage	0.0064	
20	Battery End Point	0.0016	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.3 V. ; Maximum Voltage =4.2 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 12

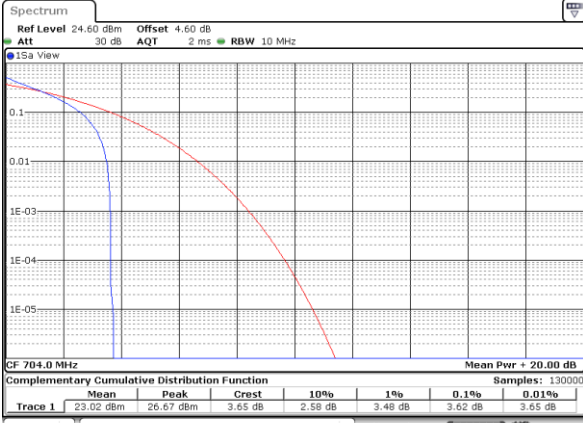
Peak-to-Average Ratio

Mode	LTE Band 12 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.62	4.78	5.10	5.77	PASS
Middle CH	3.74	4.78	4.67	5.83	
Highest CH	3.86	4.67	5.04	5.74	



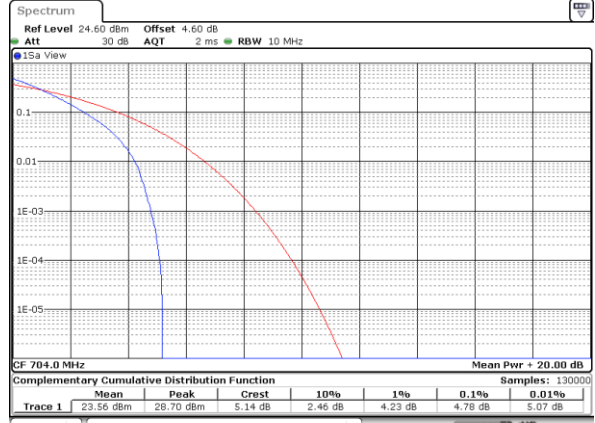
LTE Band 12 / 10MHz / QPSK

Lowest Channel / 1RB



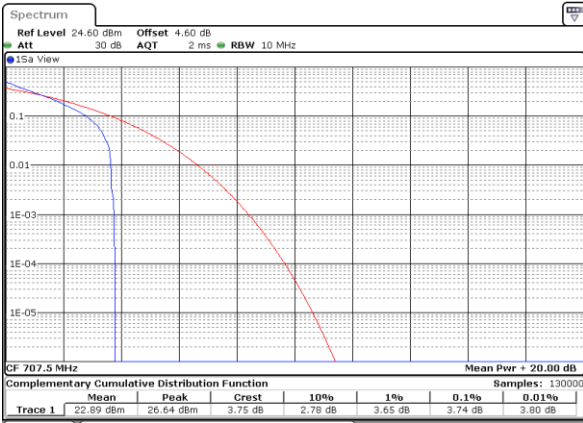
Date: 26.OCT.2019 01:45:04

Lowest Channel / Full RB



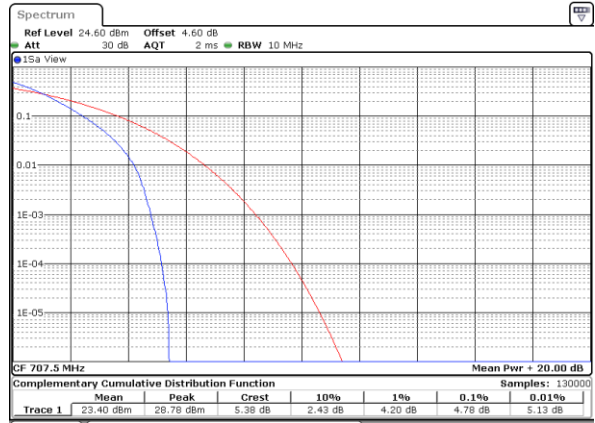
Date: 26.OCT.2019 01:45:12

Middle Channel / 1RB



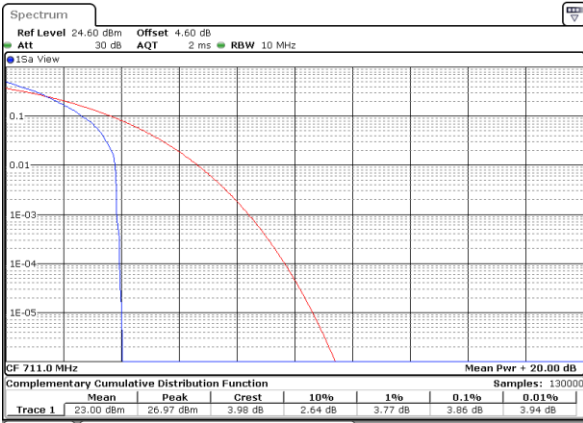
Date: 26.OCT.2019 01:45:50

Middle Channel / Full RB



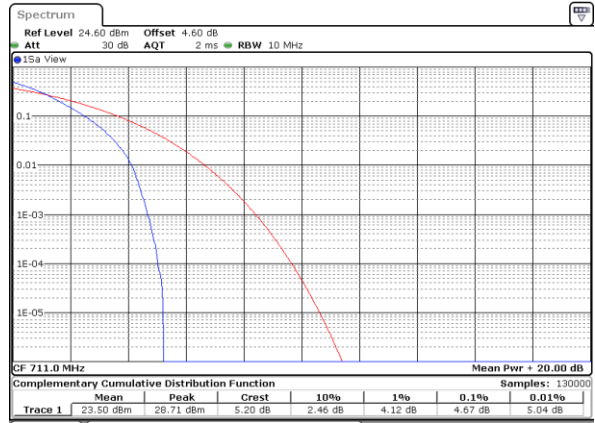
Date: 26.OCT.2019 01:45:41

Highest Channel / 1RB



Date: 26.OCT.2019 01:46:17

Highest Channel / Full RB

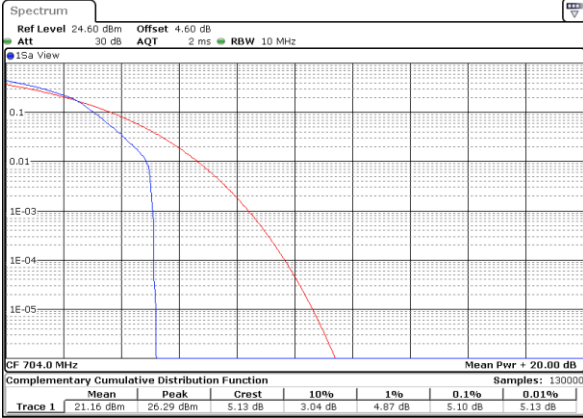


Date: 26.OCT.2019 01:46:26



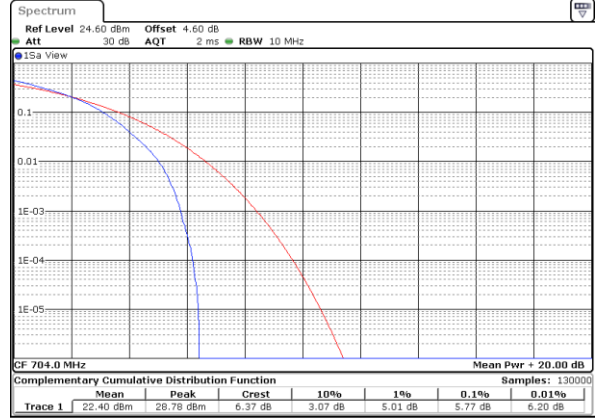
LTE Band 12 / 10MHz / 16QAM

Lowest Channel / 1RB



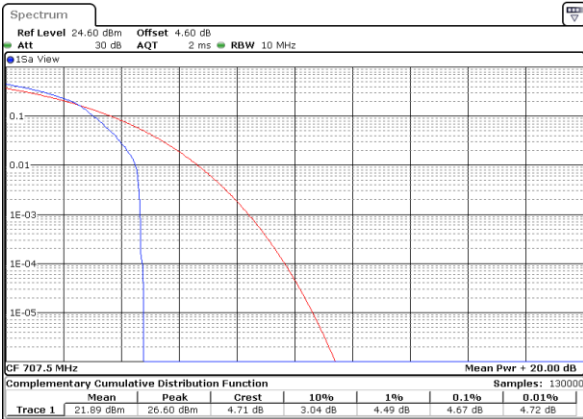
Date: 26.OCT.2019 01:44:54

Lowest Channel / Full RB



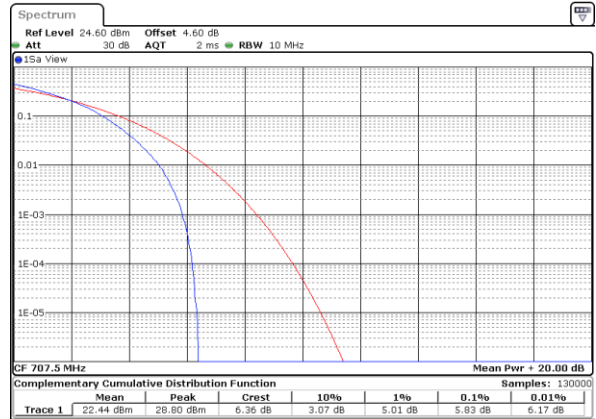
Date: 26.OCT.2019 01:45:23

Middle Channel / 1RB



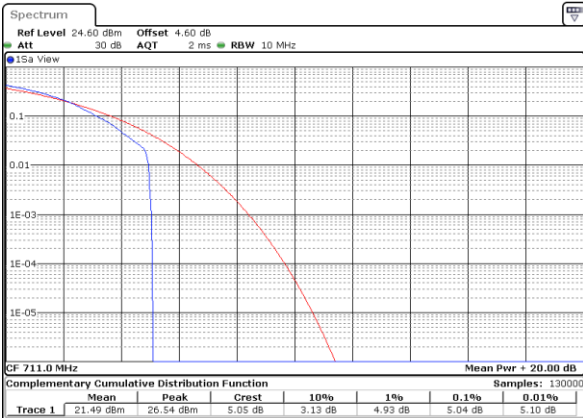
Date: 26.OCT.2019 01:45:59

Middle Channel / Full RB



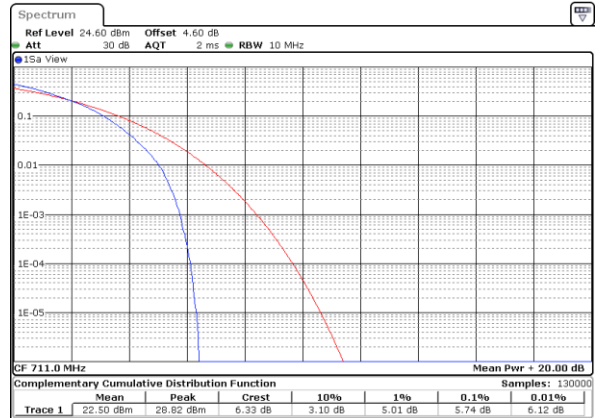
Date: 26.OCT.2019 01:45:32

Highest Channel / 1RB



Date: 26.OCT.2019 01:46:08

Highest Channel / Full RB



Date: 26.OCT.2019 01:46:39



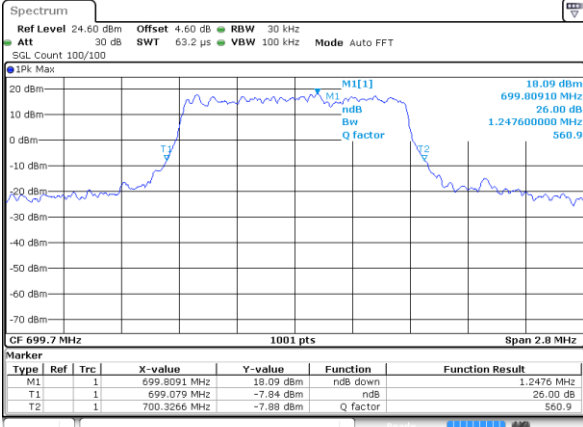
26dB Bandwidth

Mode	LTE Band 12 : 26dB BW(MHz)							
	1.4MHz		3MHz		5MHz		10MHz	
BW								
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.248	1.287	3.003	3.063	4.925	4.955	9.77	9.57
Middle CH	1.250	1.284	3.015	3.039	4.875	4.865	9.81	9.75
Highest CH	1.276	1.298	2.991	3.033	4.915	4.855	9.83	9.79



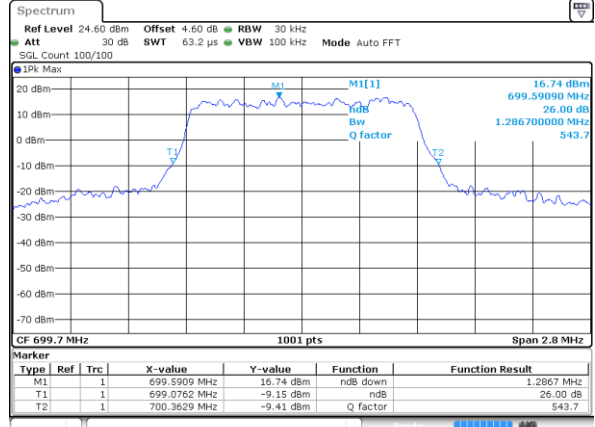
LTE Band 12

Lowest Channel / 1.4MHz / QPSK



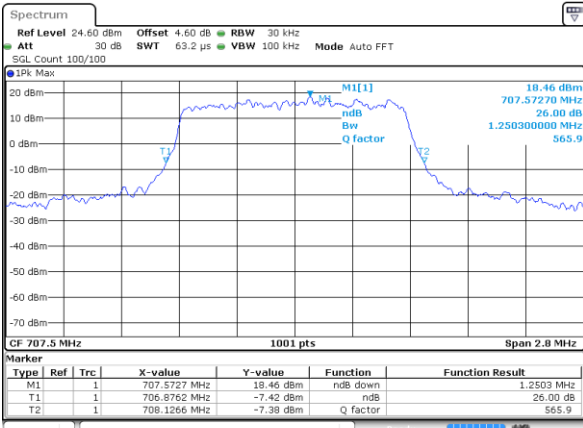
Date: 26 OCT 2019 00:40:51

Lowest Channel / 1.4MHz / 16QAM



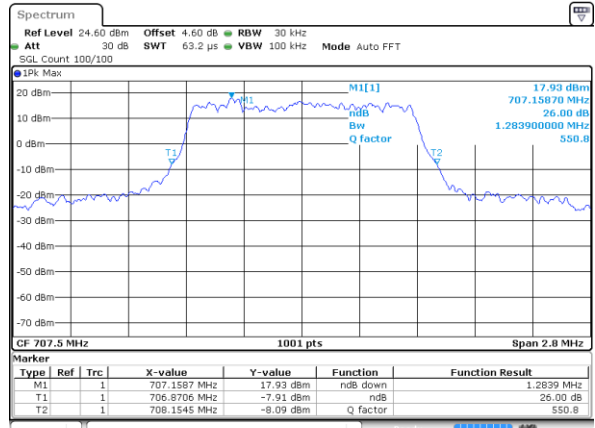
Date: 26 OCT 2019 00:40:41

Middle Channel / 1.4MHz / QPSK



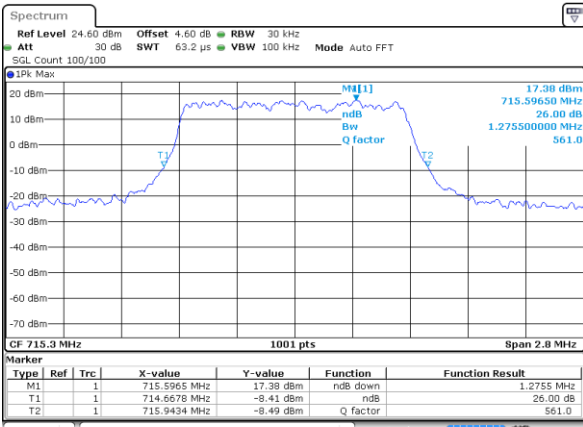
Date: 26 OCT 2019 00:40:21

Middle Channel / 1.4MHz / 16QAM



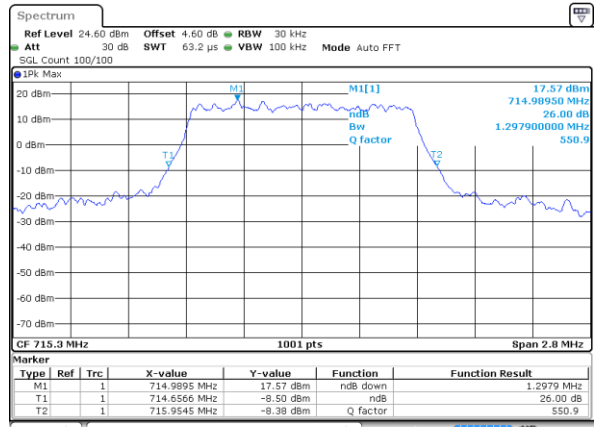
Date: 26 OCT 2019 00:40:31

Highest Channel / 1.4MHz / QPSK



Date: 26 OCT 2019 00:40:11

Highest Channel / 1.4MHz / 16QAM

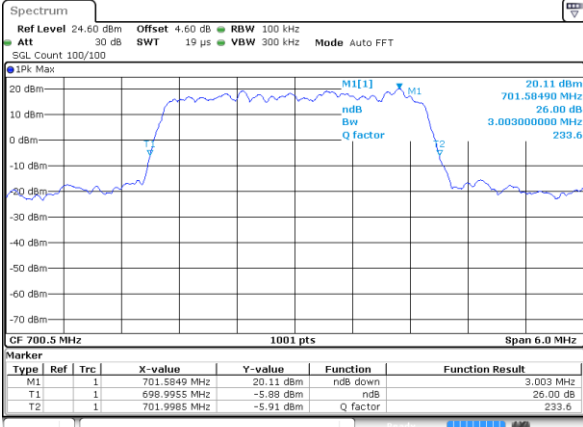


Date: 26 OCT 2019 00:40:01



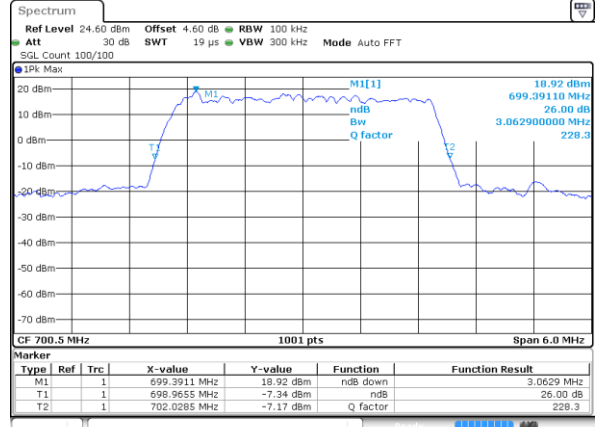
LTE Band 12

Lowest Channel / 3MHz / QPSK



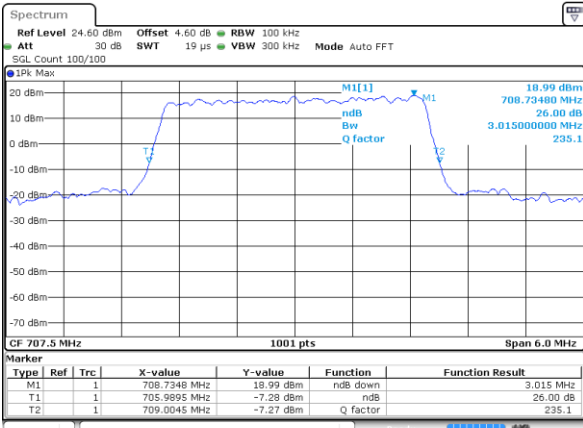
Date: 26 OCT 2019 00:57:14

Lowest Channel / 3MHz / 16QAM



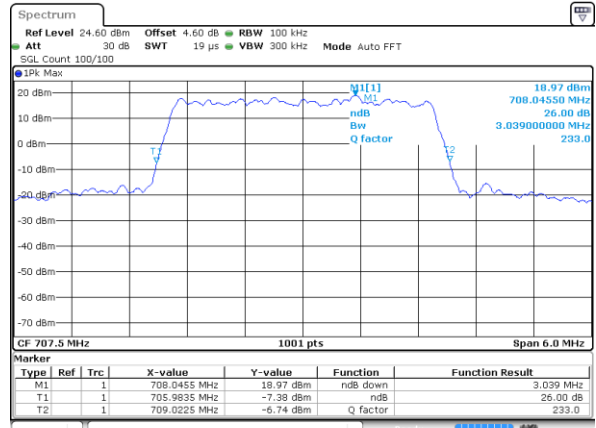
Date: 26 OCT 2019 00:57:04

Middle Channel / 3MHz / QPSK



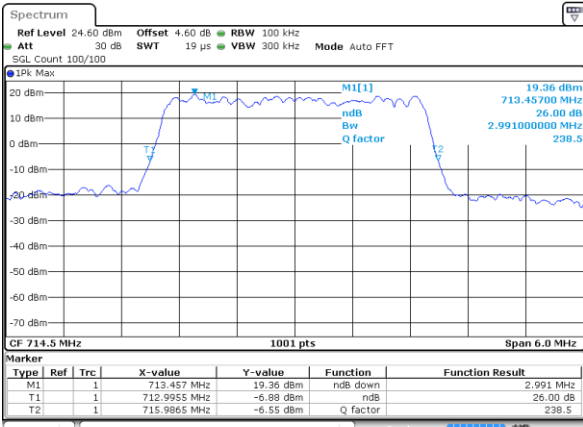
Date: 26 OCT 2019 00:56:45

Middle Channel / 3MHz / 16QAM



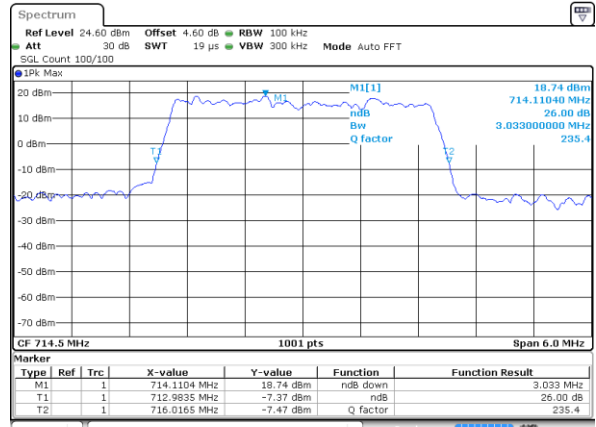
Date: 26 OCT 2019 00:56:54

Highest Channel / 3MHz / QPSK



Date: 26 OCT 2019 00:56:35

Highest Channel / 3MHz / 16QAM

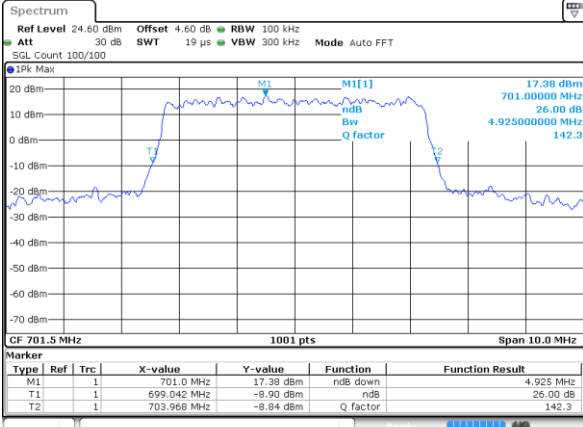


Date: 26 OCT 2019 00:56:25



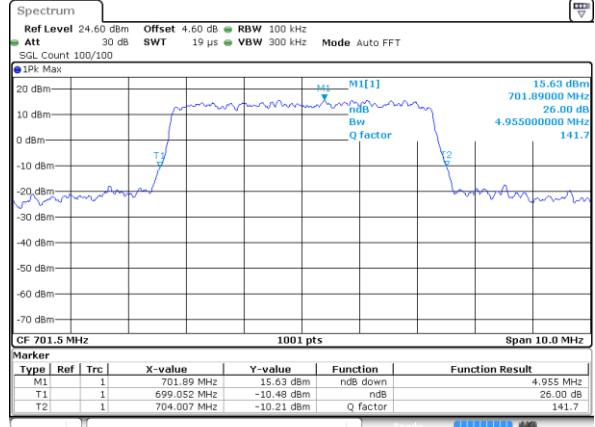
LTE Band 12

Lowest Channel / 5MHz / QPSK



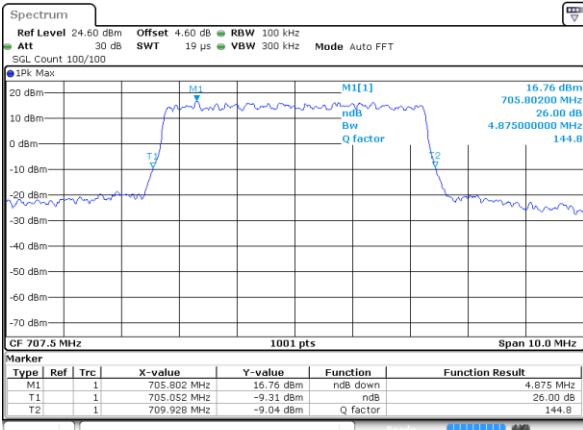
Date: 26 OCT 2019 01:13:38

Lowest Channel / 5MHz / 16QAM



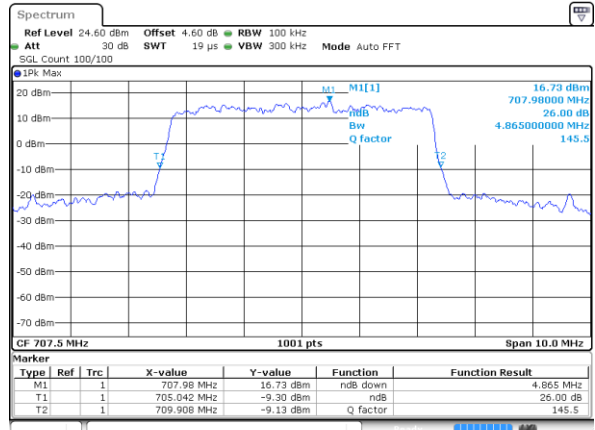
Date: 26 OCT 2019 01:13:28

Middle Channel / 5MHz / QPSK



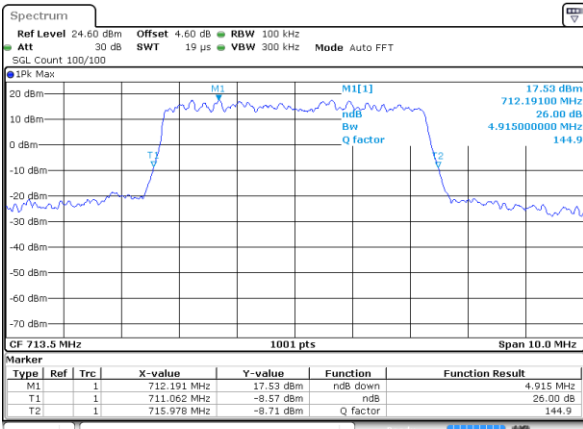
Date: 26 OCT 2019 01:13:08

Middle Channel / 5MHz / 16QAM



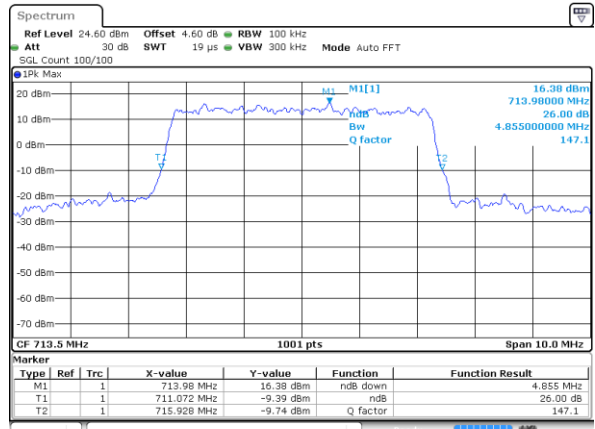
Date: 26 OCT 2019 01:13:18

Highest Channel / 5MHz / QPSK



Date: 26 OCT 2019 01:12:58

Highest Channel / 5MHz / 16QAM

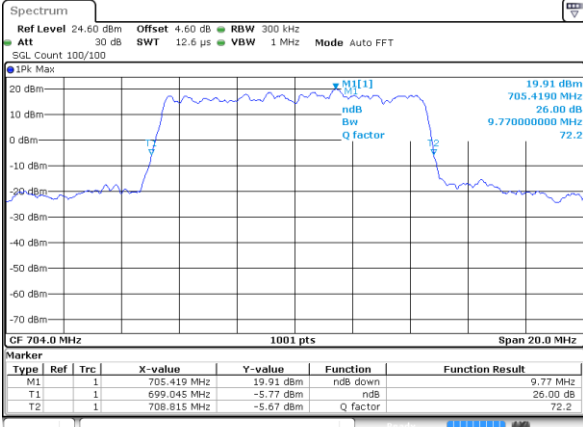


Date: 26 OCT 2019 01:12:48



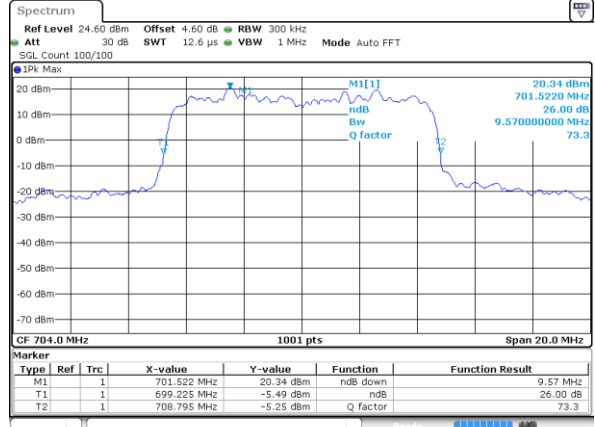
LTE Band 12

Lowest Channel / 10MHz / QPSK



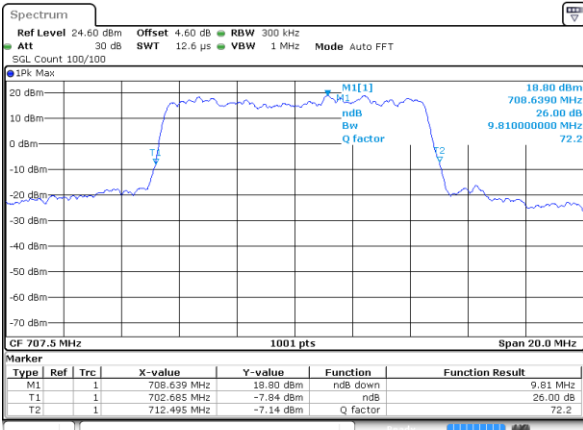
Date: 26 OCT 2019 01:30:01

Lowest Channel / 10MHz / 16QAM



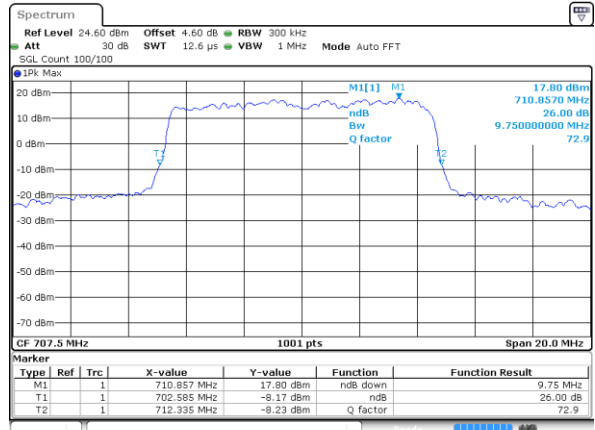
Date: 26 OCT 2019 01:29:51

Middle Channel / 10MHz / QPSK



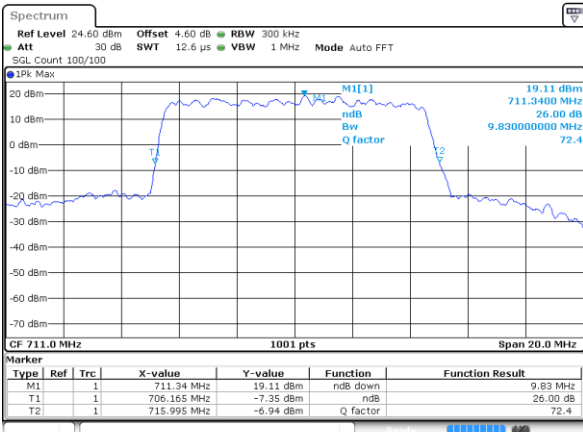
Date: 26 OCT 2019 01:29:31

Middle Channel / 10MHz / 16QAM



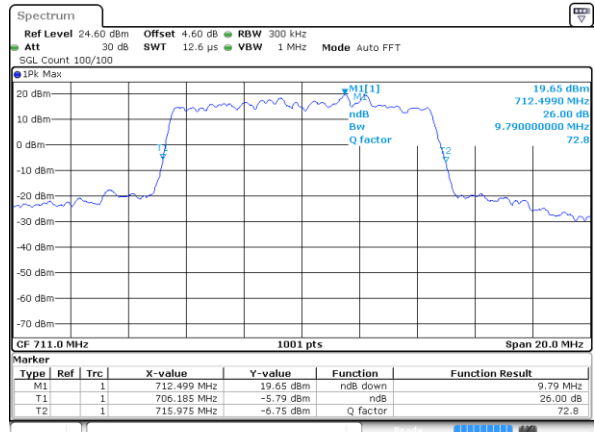
Date: 26 OCT 2019 01:29:41

Highest Channel / 10MHz / QPSK



Date: 26 OCT 2019 01:29:21

Highest Channel / 10MHz / 16QAM



Date: 26 OCT 2019 01:29:11



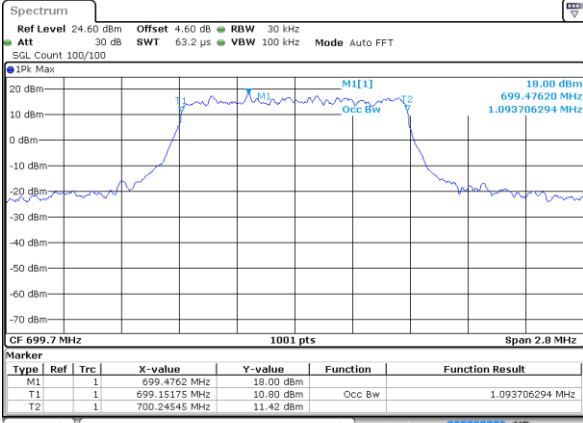
Occupied Bandwidth

Mode	LTE Band 12 : 99%OBW(MHz)							
	1.4MHz		3MHz		5MHz		10MHz	
BW								
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.094	1.097	2.697	2.739	4.496	4.496	8.971	8.991
Middle CH	1.085	1.102	2.697	2.721	4.476	4.486	9.011	8.971
Highest CH	1.097	1.091	2.715	2.721	4.486	4.486	8.991	8.931

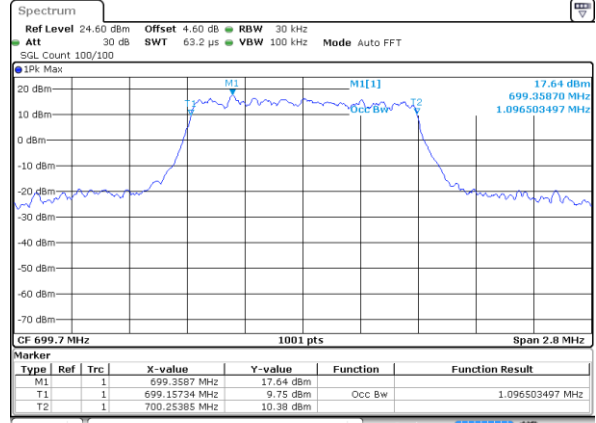


LTE Band 12

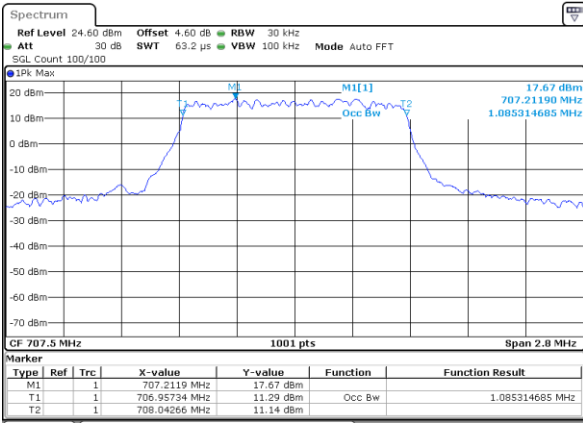
Lowest Channel / 1.4MHz / QPSK



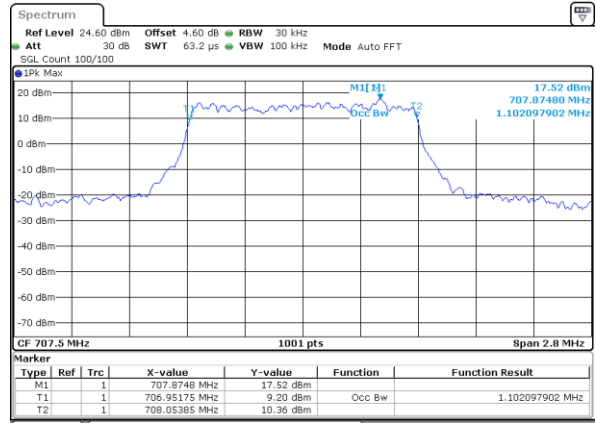
Lowest Channel / 1.4MHz / 16QAM



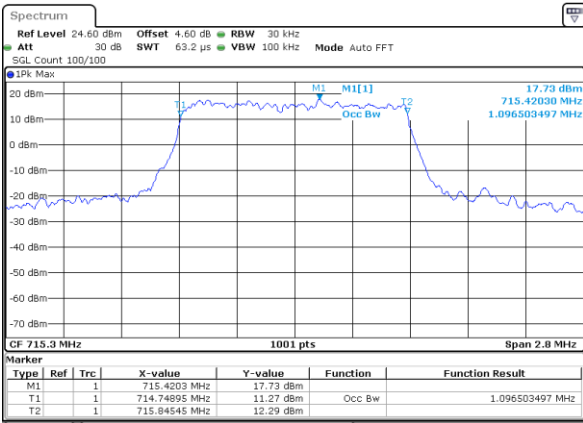
Middle Channel / 1.4MHz / QPSK



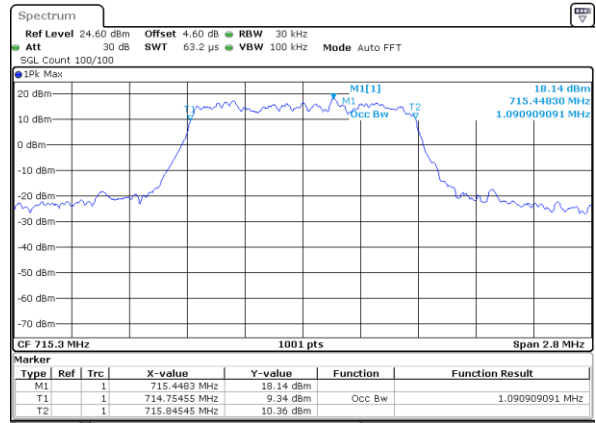
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



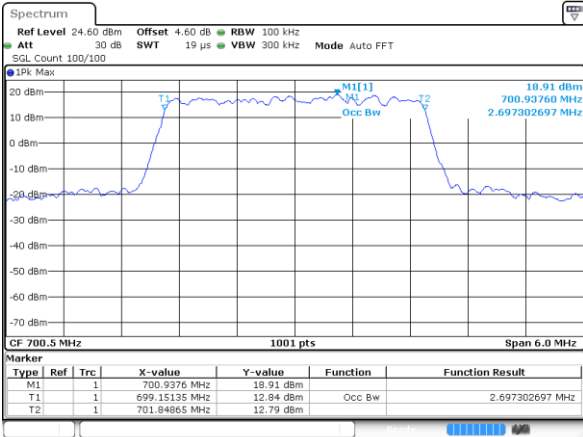
Highest Channel / 1.4MHz / 16QAM





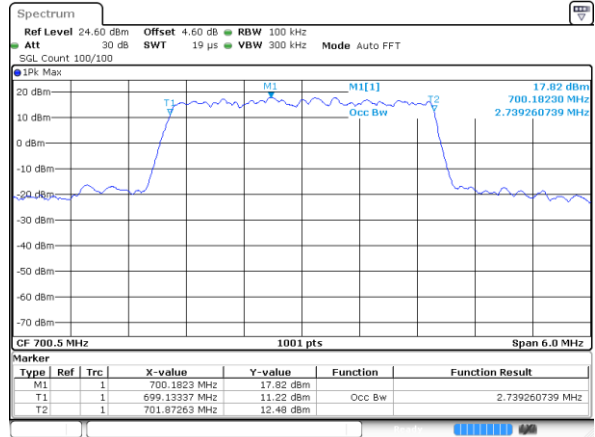
LTE Band 12

Lowest Channel / 3MHz / QPSK



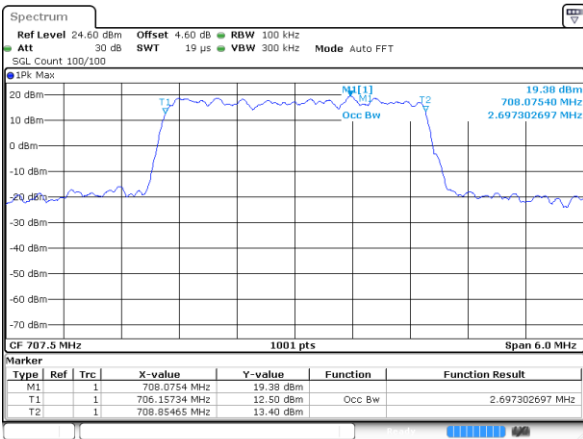
Date: 26 OCT 2019 00:55:25

Lowest Channel / 3MHz / 16QAM



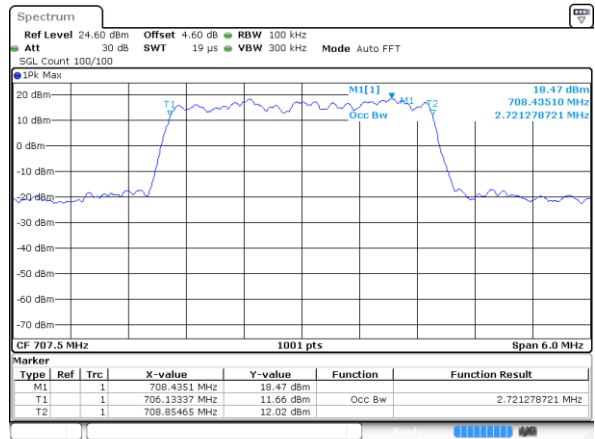
Date: 26 OCT 2019 00:55:35

Middle Channel / 3MHz / QPSK



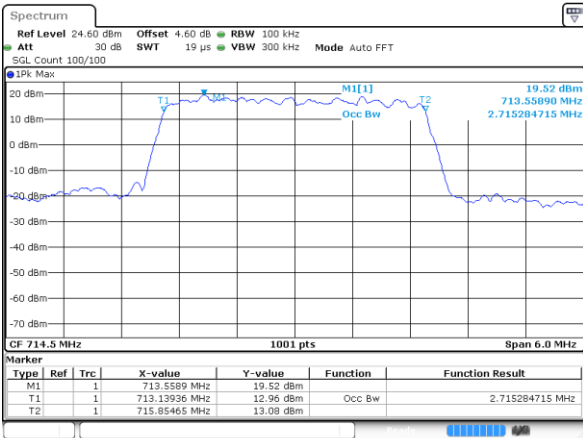
Date: 26 OCT 2019 00:55:55

Middle Channel / 3MHz / 16QAM



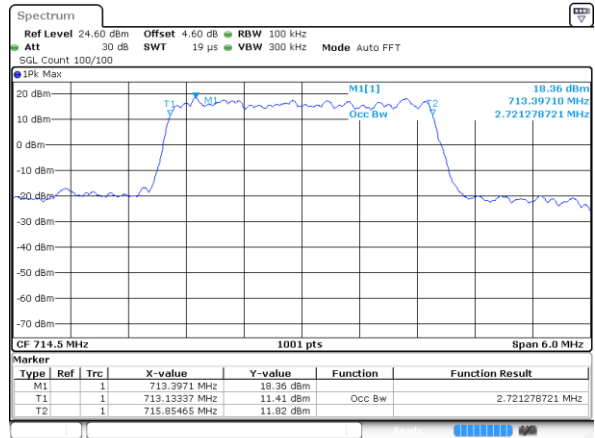
Date: 26 OCT 2019 00:55:45

Highest Channel / 3MHz / QPSK



Date: 26 OCT 2019 00:56:05

Highest Channel / 3MHz / 16QAM

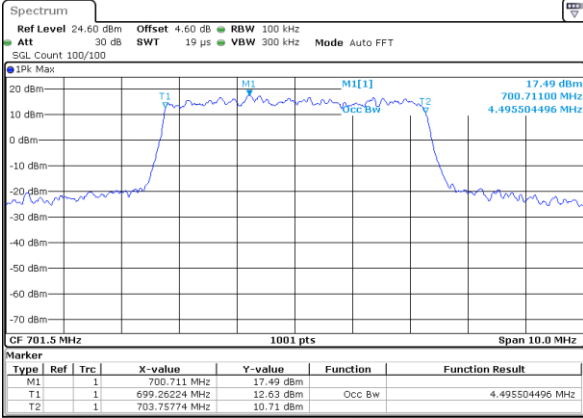


Date: 26 OCT 2019 00:56:15



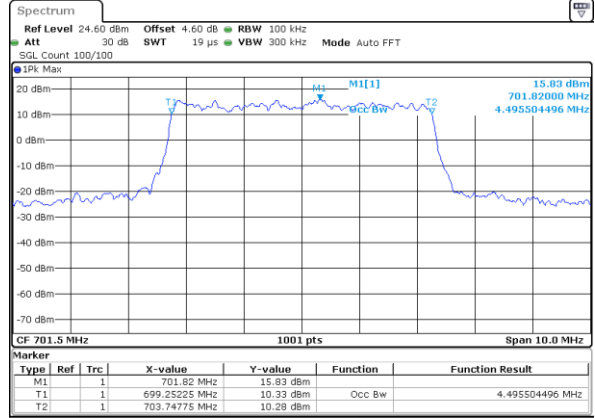
LTE Band 12

Lowest Channel / 5MHz / QPSK



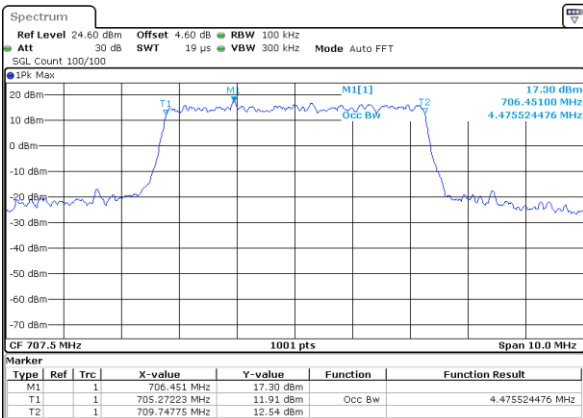
Date: 26 OCT 2019 01:11:48

Lowest Channel / 5MHz / 16QAM



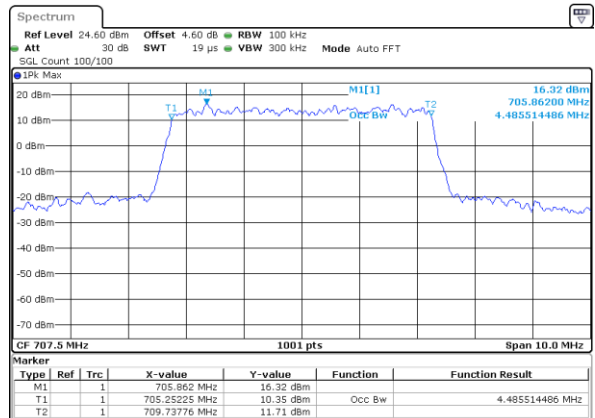
Date: 26 OCT 2019 01:11:58

Middle Channel / 5MHz / QPSK



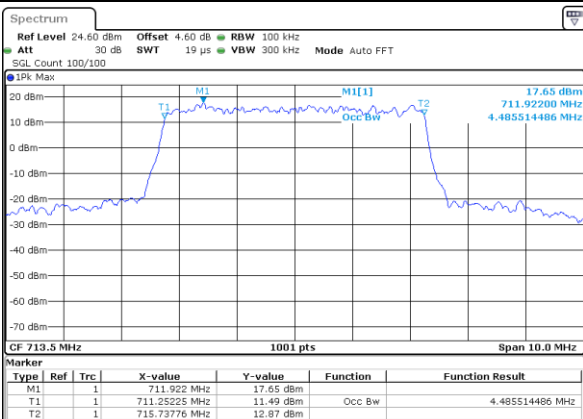
Date: 26 OCT 2019 01:12:18

Middle Channel / 5MHz / 16QAM



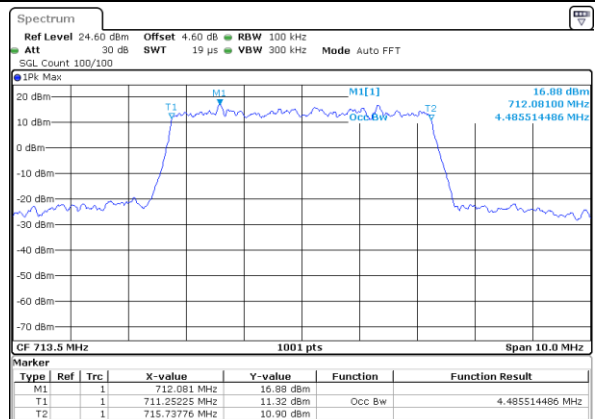
Date: 26 OCT 2019 01:12:08

Highest Channel / 5MHz / QPSK



Date: 26 OCT 2019 01:12:28

Highest Channel / 5MHz / 16QAM

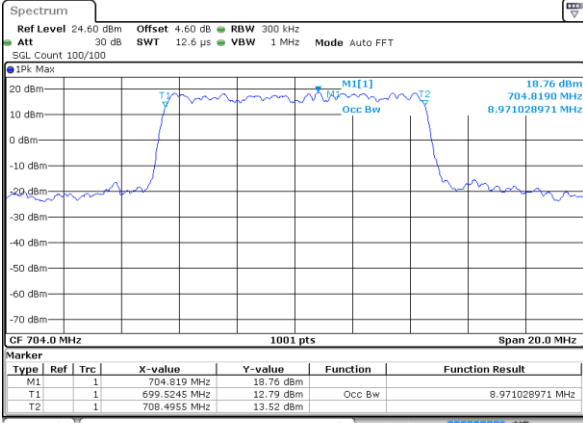


Date: 26 OCT 2019 01:12:38



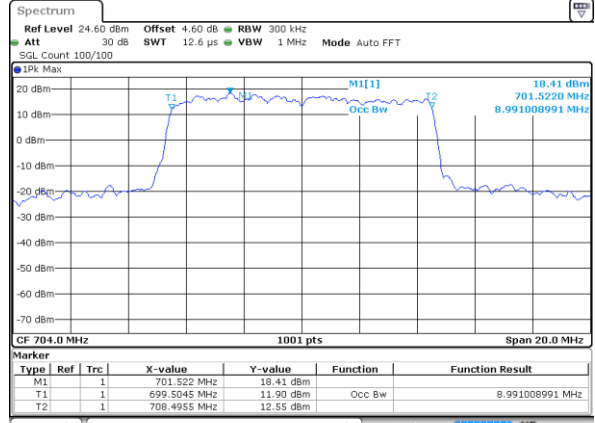
LTE Band 12

Lowest Channel / 10MHz / QPSK



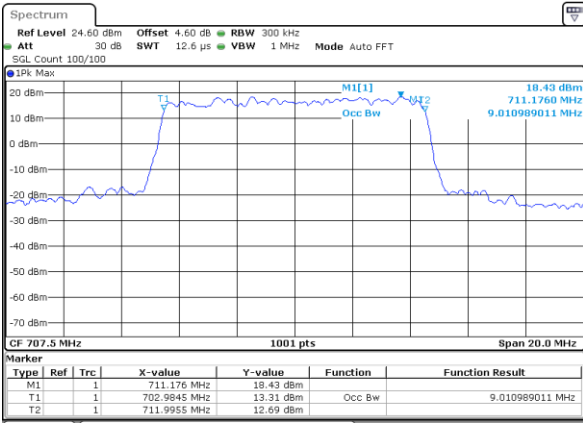
Date: 26 OCT 2019 01:28:12

Lowest Channel / 10MHz / 16QAM



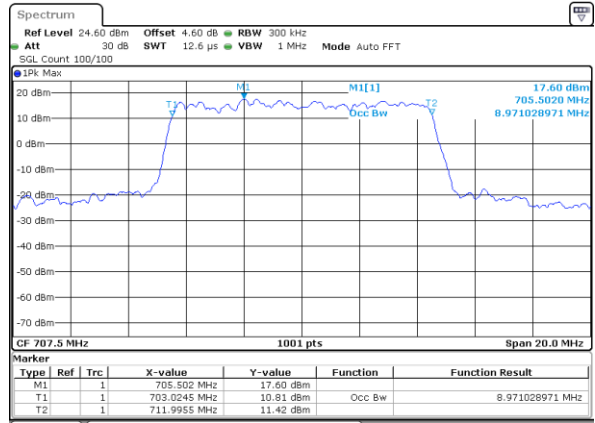
Date: 26 OCT 2019 01:28:22

Middle Channel / 10MHz / QPSK



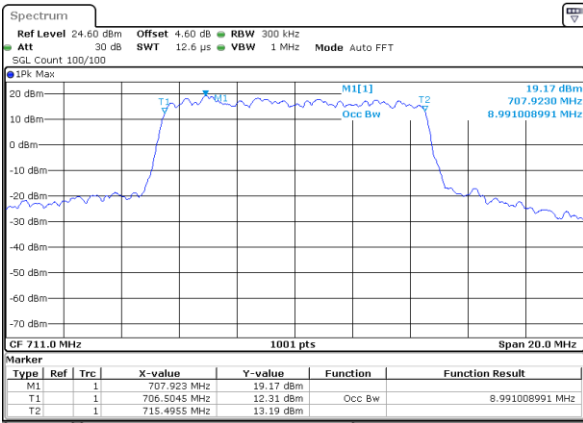
Date: 26 OCT 2019 01:28:42

Middle Channel / 10MHz / 16QAM



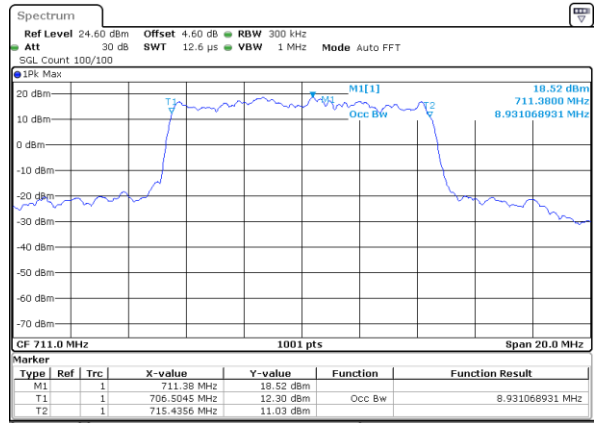
Date: 26 OCT 2019 01:28:32

Highest Channel / 10MHz / QPSK



Date: 26 OCT 2019 01:28:51

Highest Channel / 10MHz / 16QAM



Date: 26 OCT 2019 01:29:01

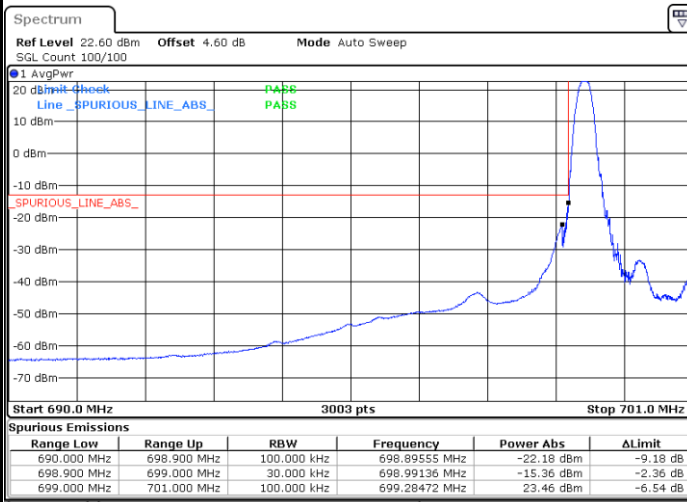


Conducted Band Edge



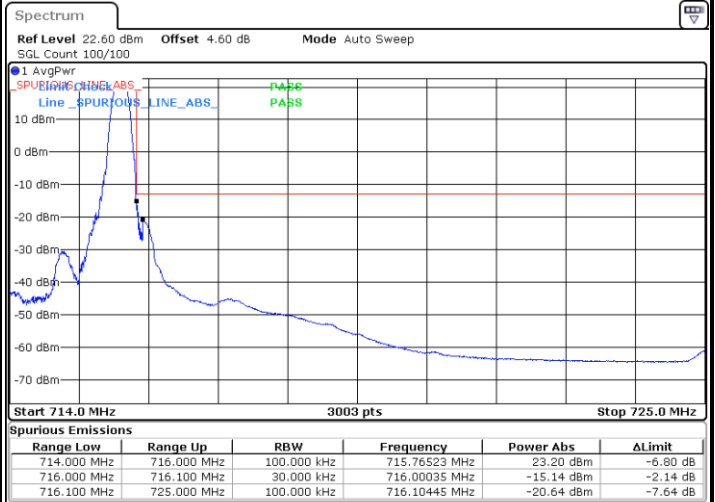
LTE Band 12 / 1.4MHz / QPSK

Lowest Band Edge / 1 RB



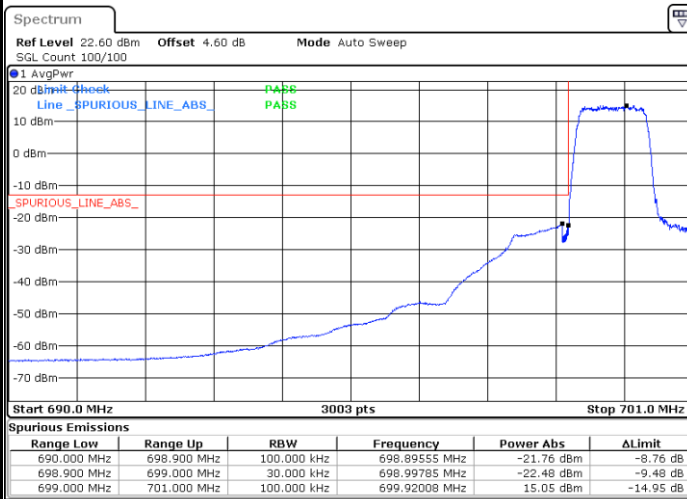
Date: 26.OCT.2019 00:48:31

Highest Band Edge / 1RB



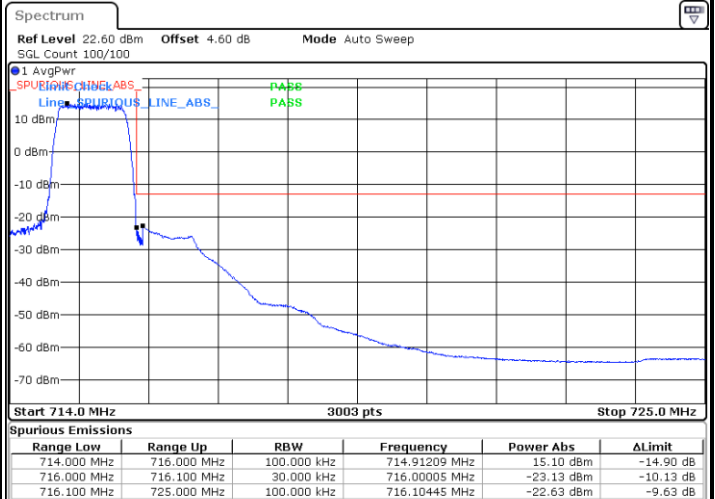
Date: 26.OCT.2019 00:54:08

Lowest Band Edge / Full RB



Date: 26.OCT.2019 00:49:39

Highest Band Edge / Full RB

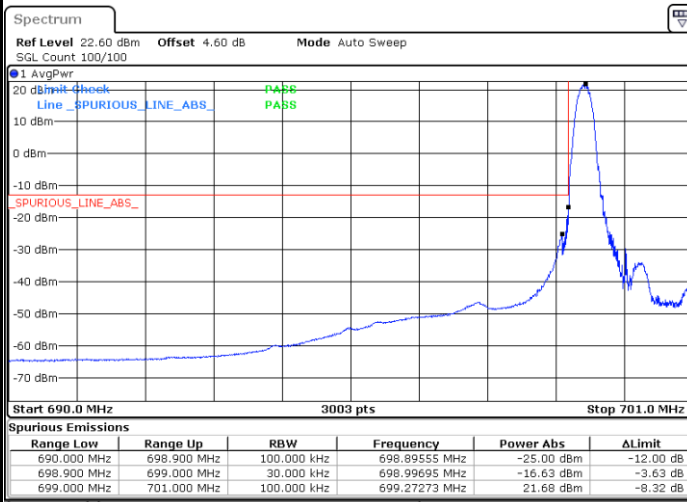


Date: 26.OCT.2019 00:53:01



LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



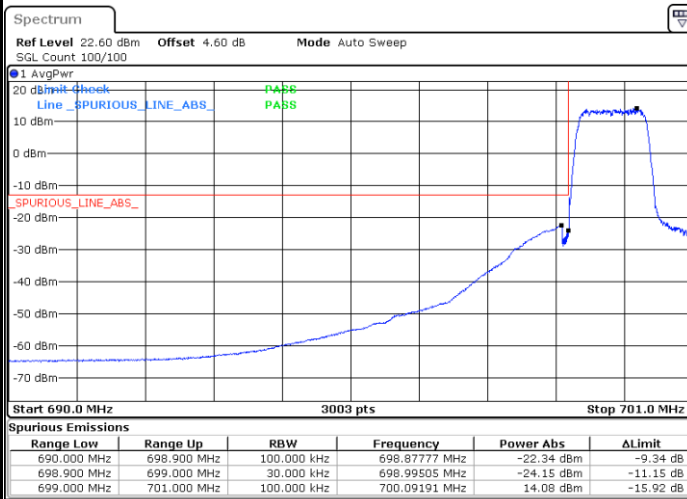
Date: 26.OCT.2019 00:47:24

Highest Band Edge / 1 RB



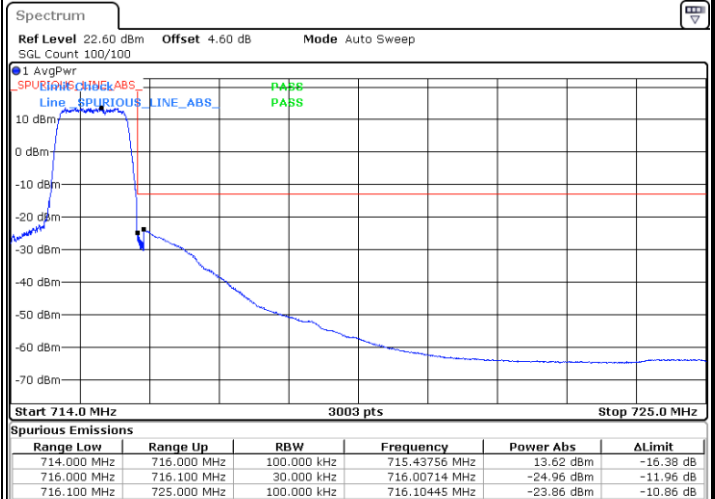
Date: 26.OCT.2019 00:55:15

Lowest Band Edge / Full RB



Date: 26.OCT.2019 00:50:46

Highest Band Edge / Full RB

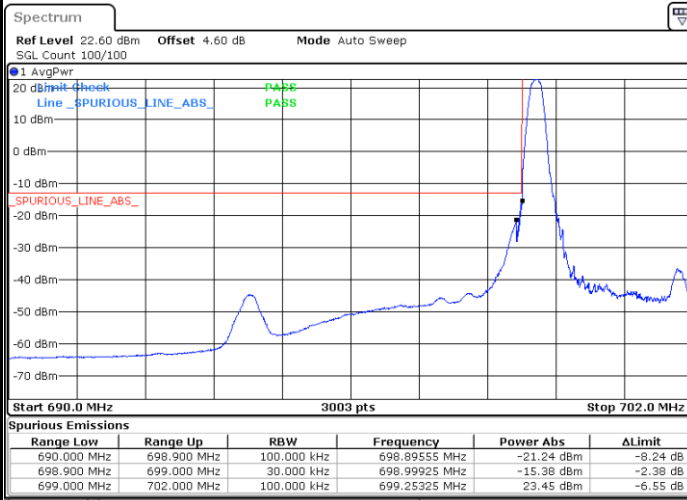


Date: 26.OCT.2019 00:51:53



LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / 1RB



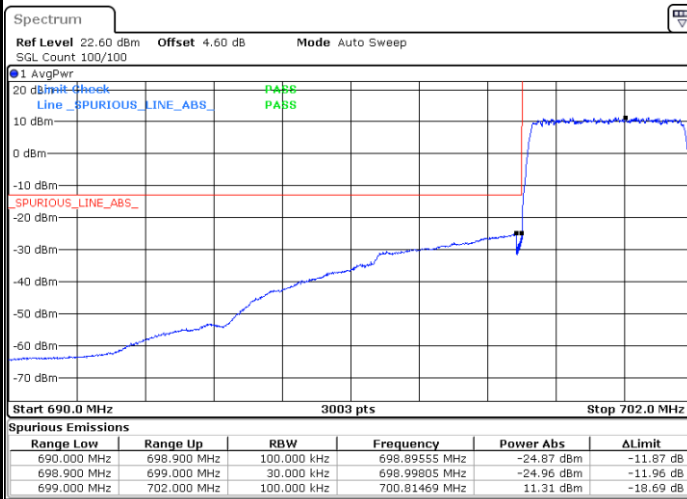
Date: 26.OCT.2019 01:04:54

Highest Band Edge / 1 RB



Date: 26.OCT.2019 01:10:31

Lowest Band Edge / Full RB



Date: 26.OCT.2019 01:06:02

Highest Band Edge / Full RB

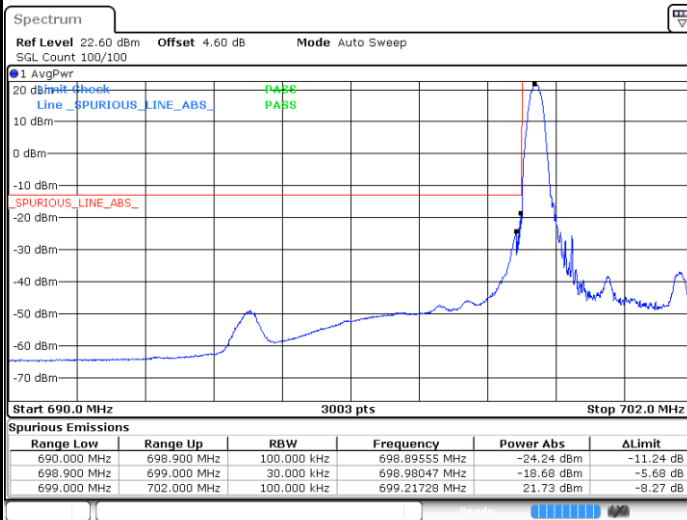


Date: 26.OCT.2019 01:09:24



LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



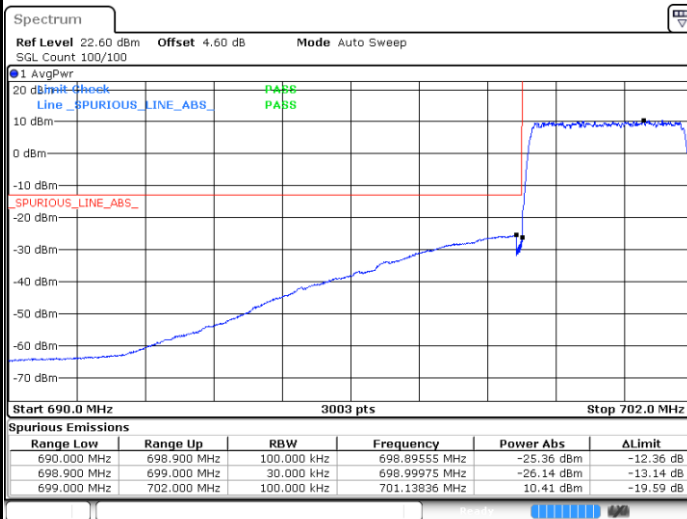
Date: 26.OCT.2019 01:03:47

Highest Band Edge / 1 RB



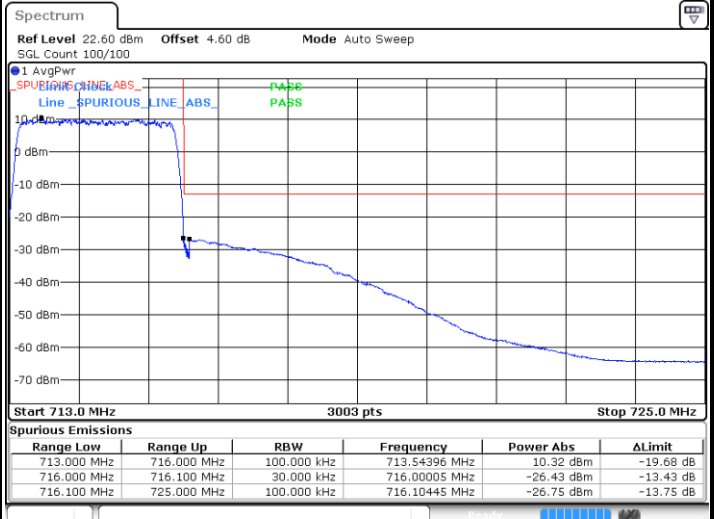
Date: 26.OCT.2019 01:11:39

Lowest Band Edge / Full RB



Date: 26.OCT.2019 01:07:09

Highest Band Edge / Full RB

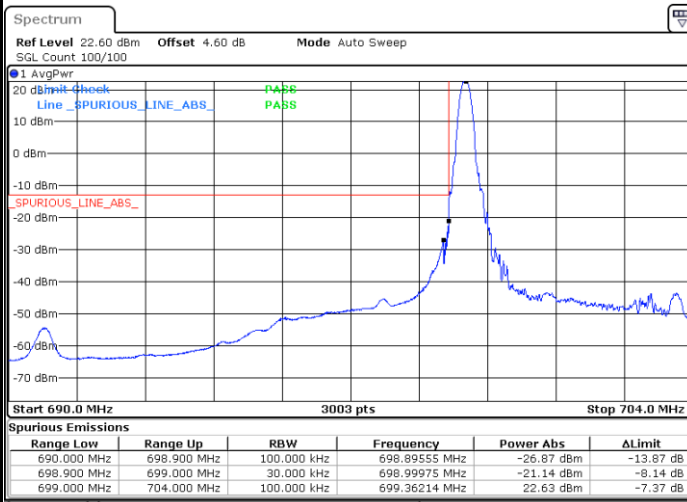


Date: 26.OCT.2019 01:08:17



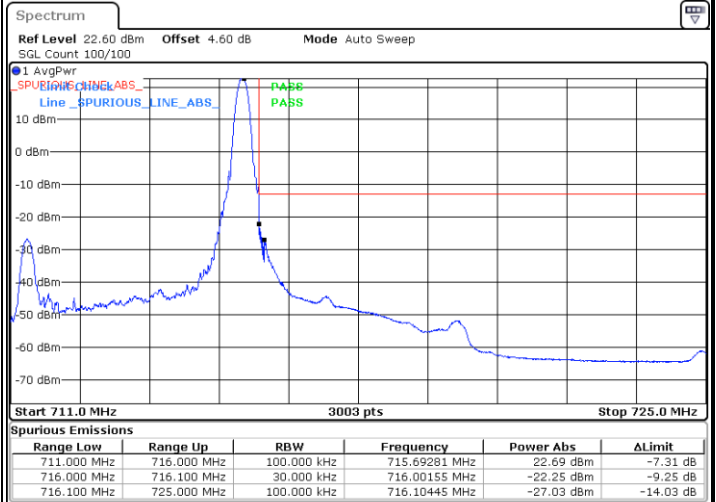
LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / 1 RB



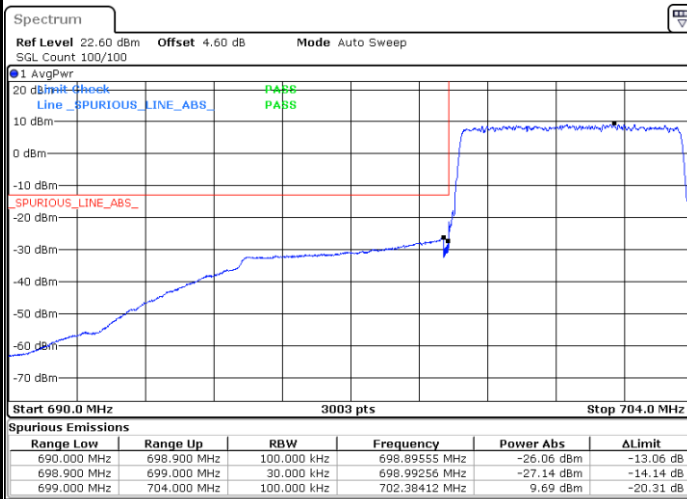
Date: 26.OCT.2019 01:21:18

Highest Band Edge / 1 RB



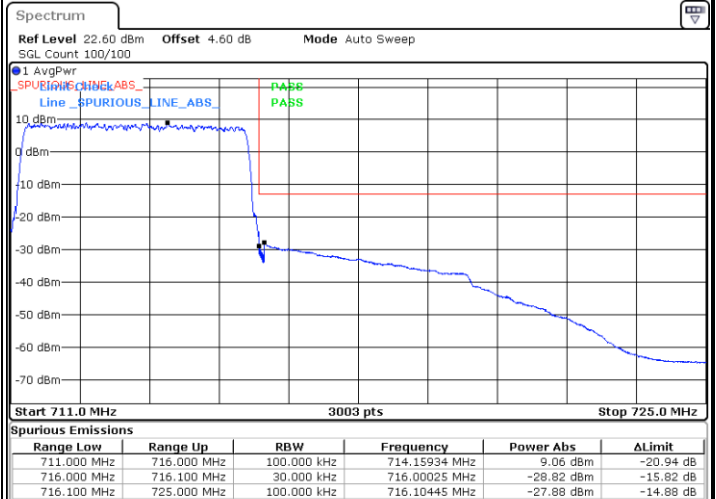
Date: 26.OCT.2019 01:26:55

Lowest Band Edge / Full RB



Date: 26.OCT.2019 01:22:25

Highest Band Edge / Full RB

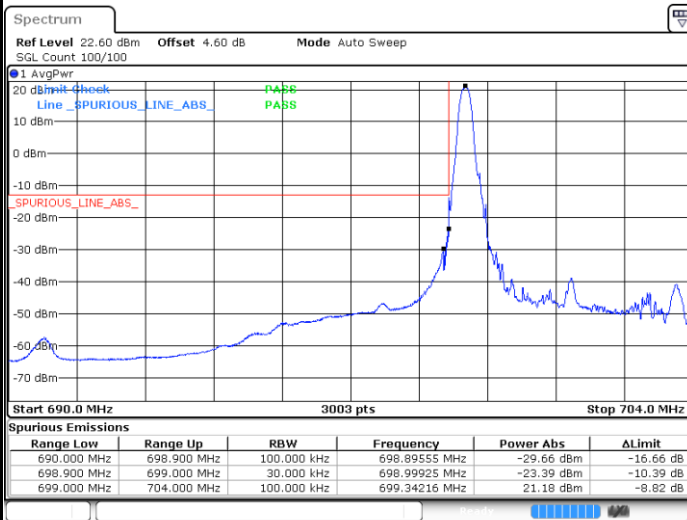


Date: 26.OCT.2019 01:25:47



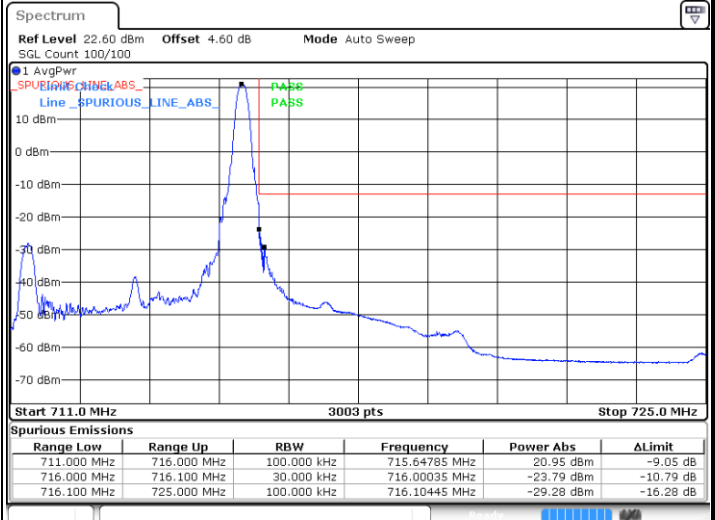
LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / 1RB



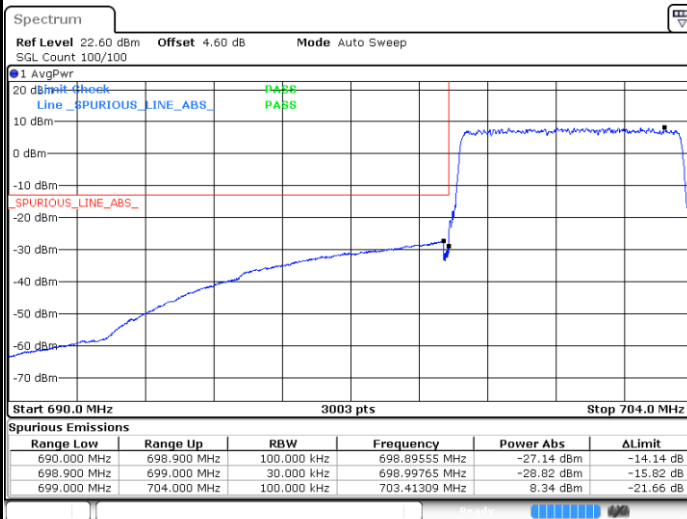
Date: 26.OCT.2019 01:20:11

Highest Band Edge / 1 RB



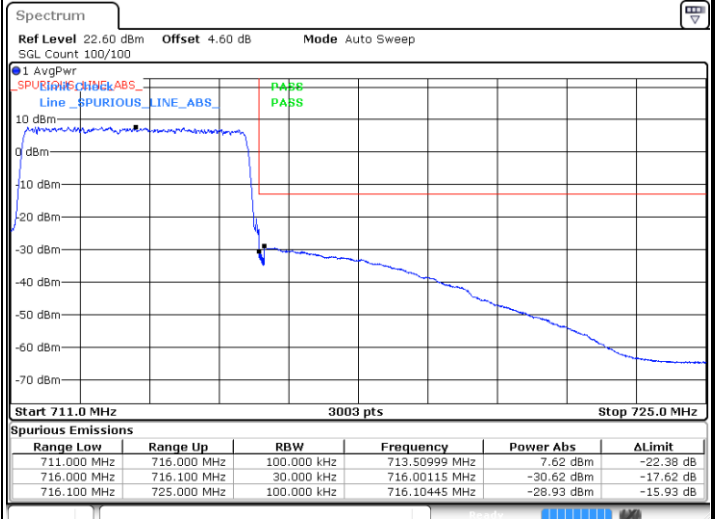
Date: 26.OCT.2019 01:28:02

Lowest Band Edge / Full RB



Date: 26.OCT.2019 01:23:33

Highest Band Edge / Full RB

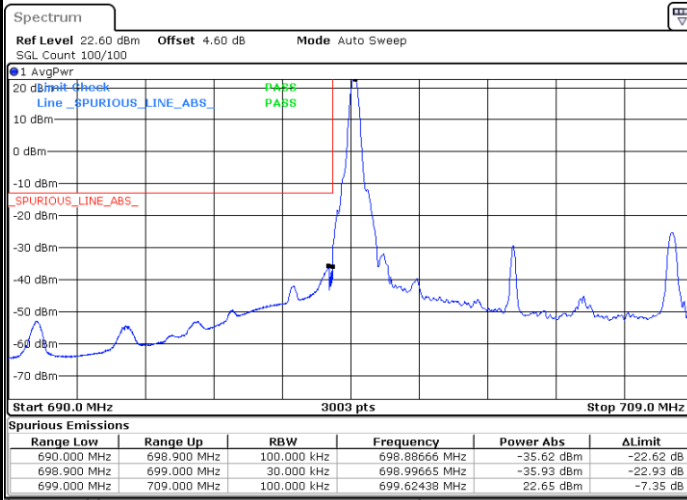


Date: 26.OCT.2019 01:24:40



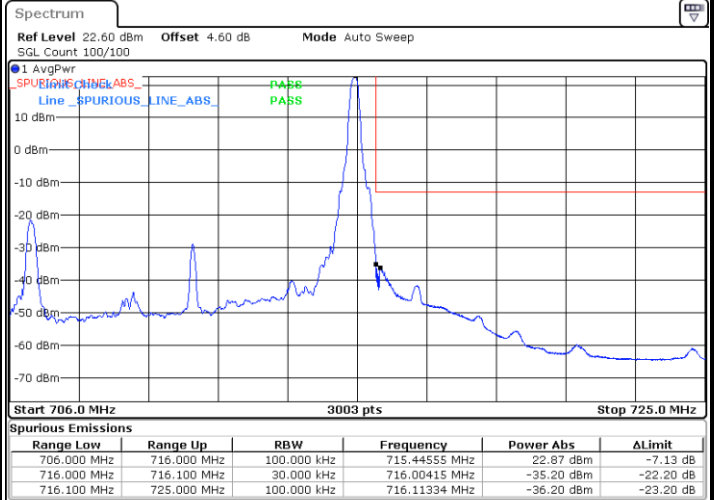
LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1 RB



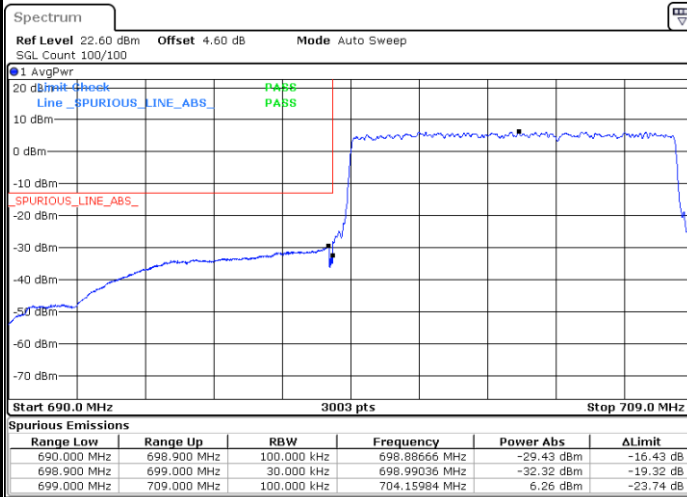
Date: 26.OCT.2019 01:37:42

Highest Band Edge / 1 RB



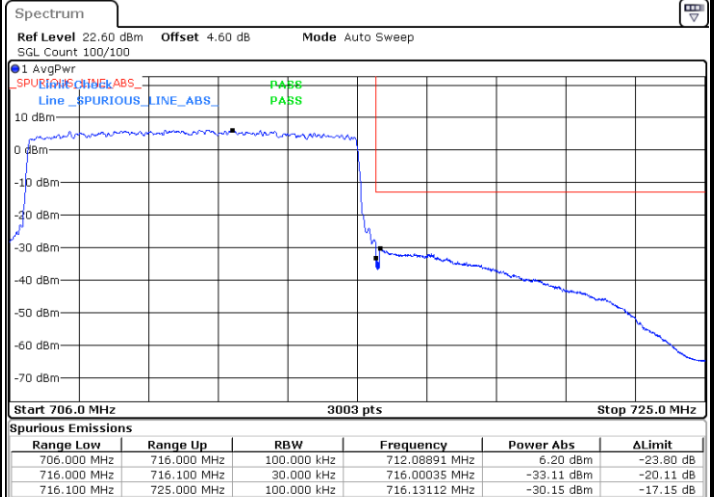
Date: 26.OCT.2019 01:43:19

Lowest Band Edge / Full RB



Date: 26.OCT.2019 01:38:49

Highest Band Edge / Full RB

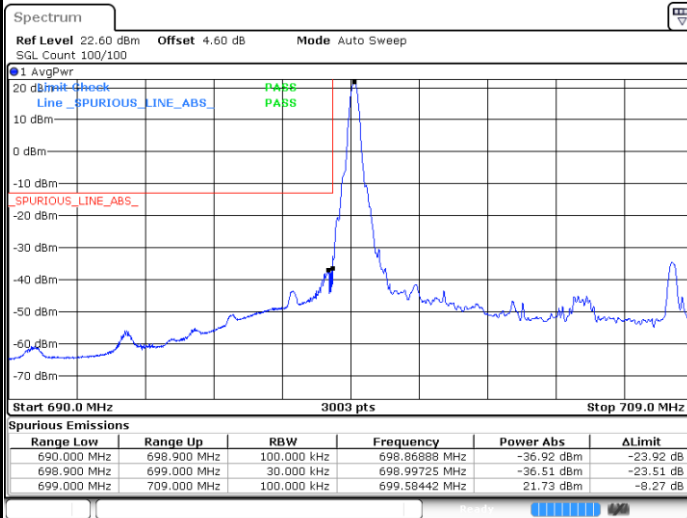


Date: 26.OCT.2019 01:42:11



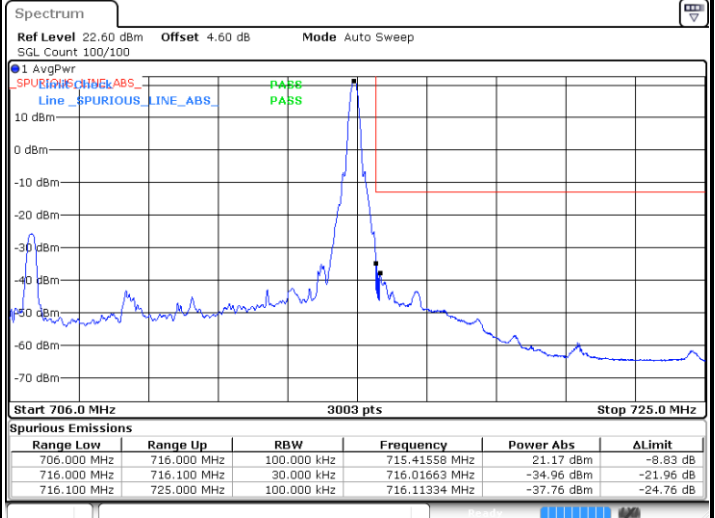
LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



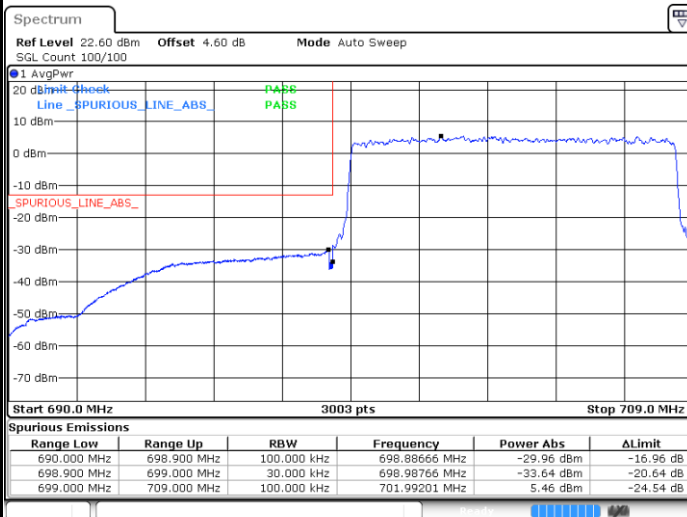
Date: 26.OCT.2019 01:36:34

Highest Band Edge / 1 RB



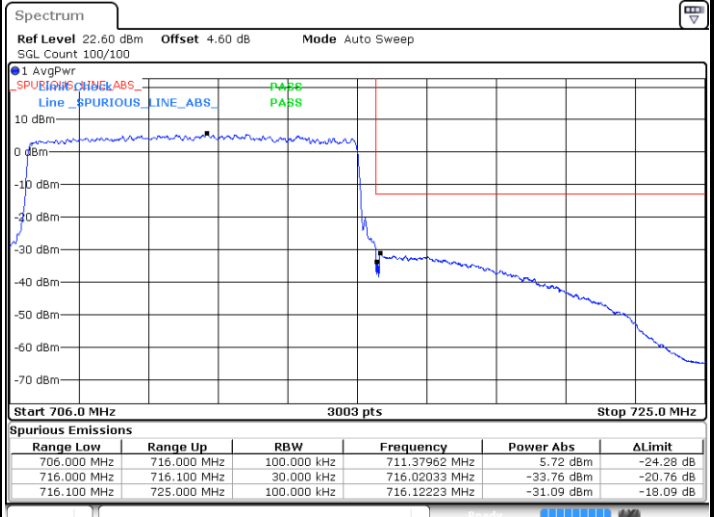
Date: 26.OCT.2019 01:44:26

Lowest Band Edge / Full RB



Date: 26.OCT.2019 01:39:56

Highest Band Edge / Full RB



Date: 26.OCT.2019 01:41:04



Conducted Spurious Emission