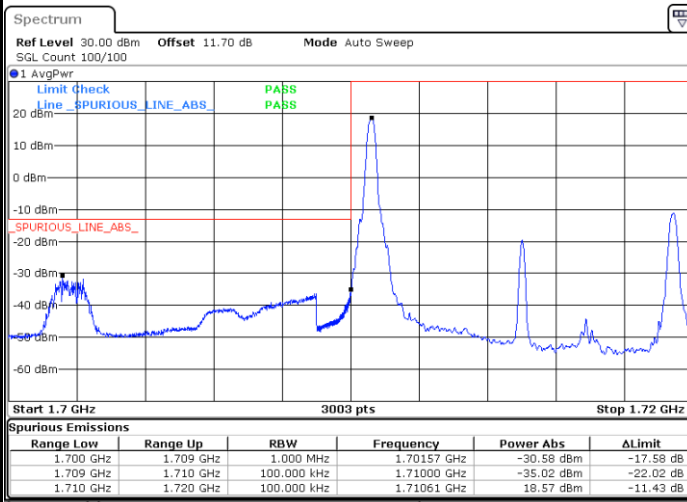




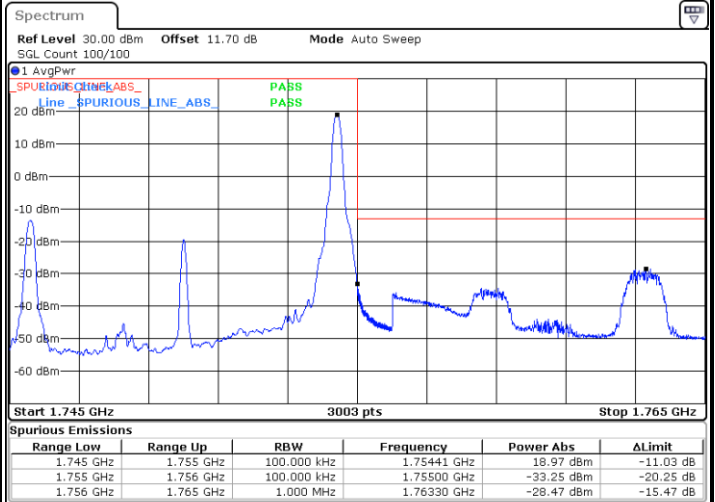
LTE Band 4 / 10MHz / QPSK

Lowest Band Edge / 1 RB



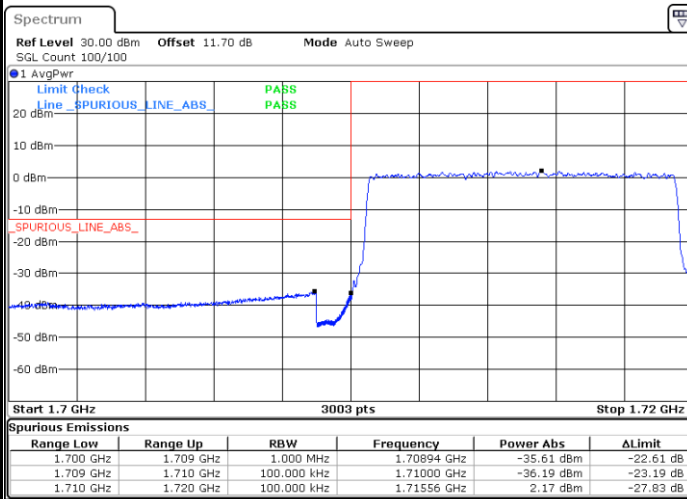
Date: 1.OCT.2019 10:27:44

Highest Band Edge / 1 RB



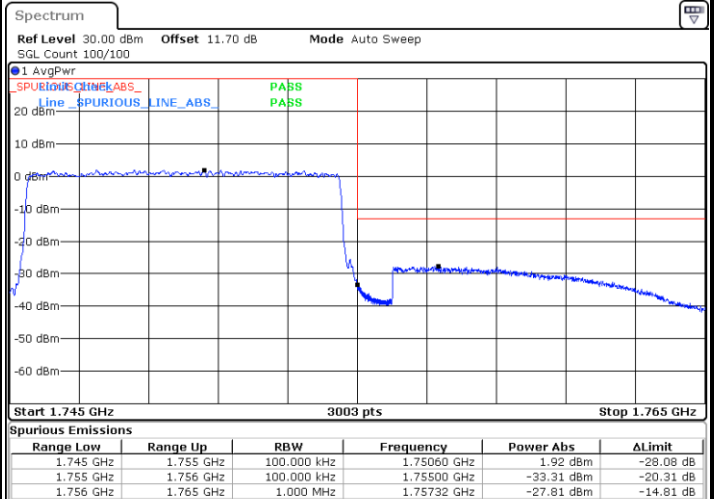
Date: 1.OCT.2019 10:34:17

Lowest Band Edge / Full RB



Date: 1.OCT.2019 10:29:46

Highest Band Edge / Full RB



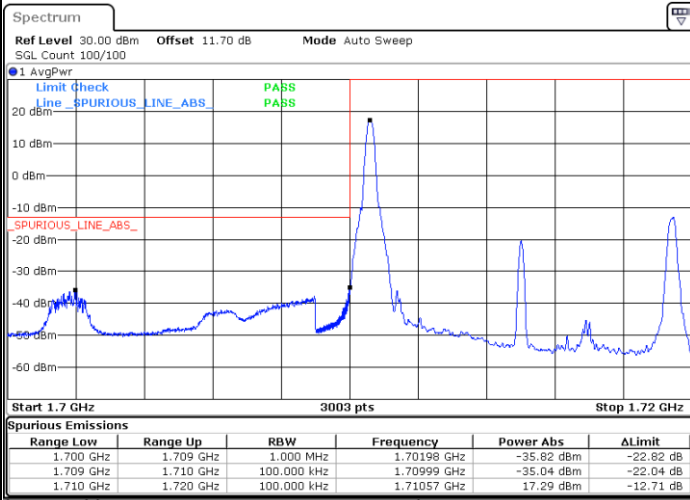
Date: 1.OCT.2019 10:36:19



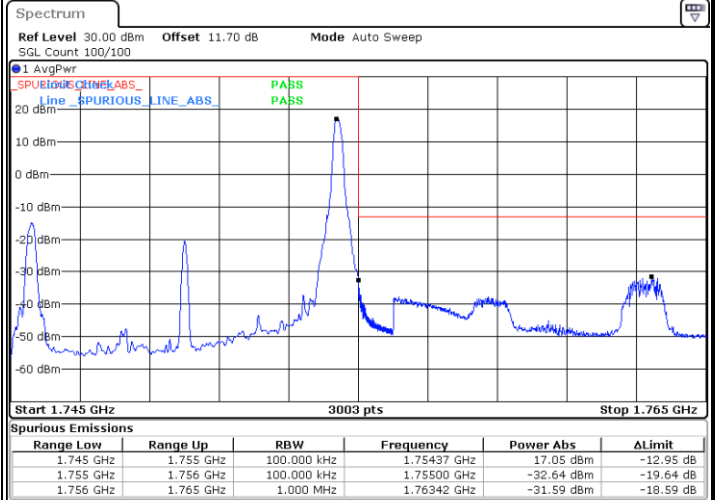
LTE Band 4 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



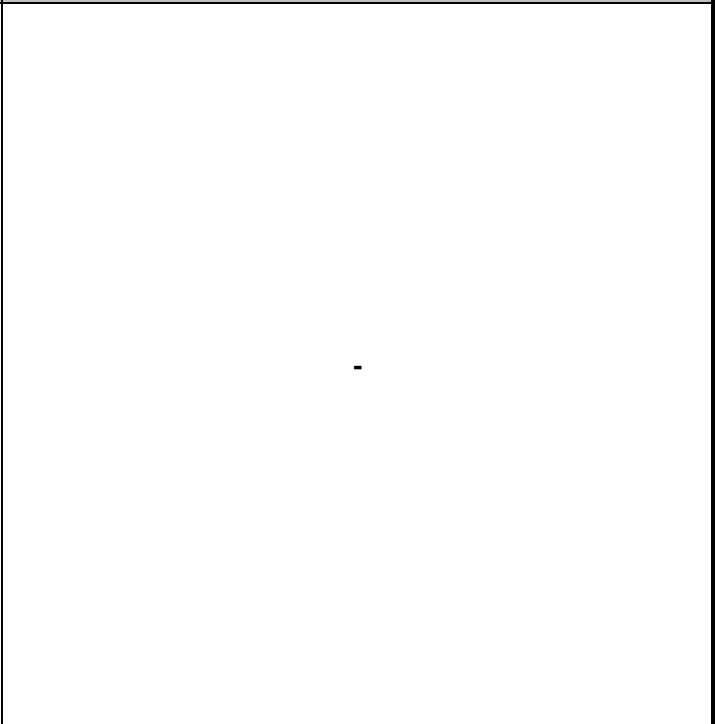
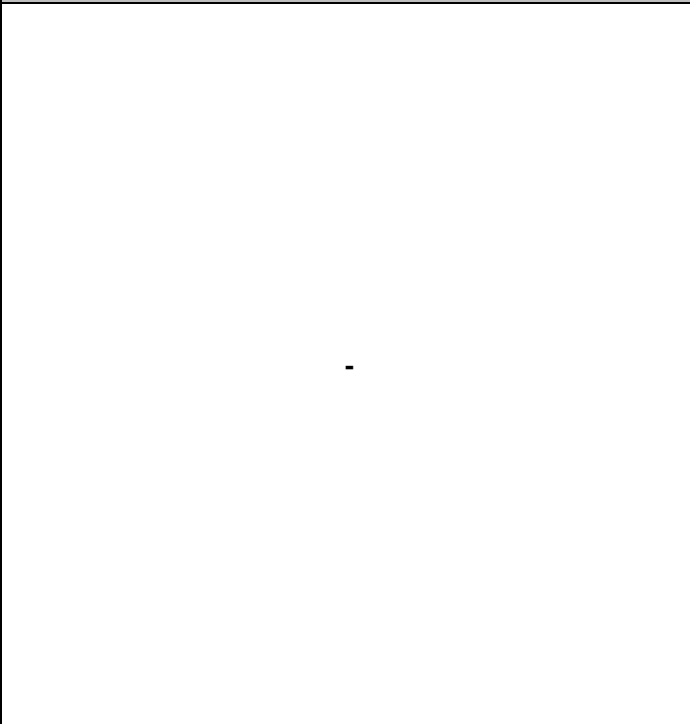
Date: 1.OCT.2019 10:28:45



Date: 1.OCT.2019 10:35:18

Lowest Band Edge / Full RB

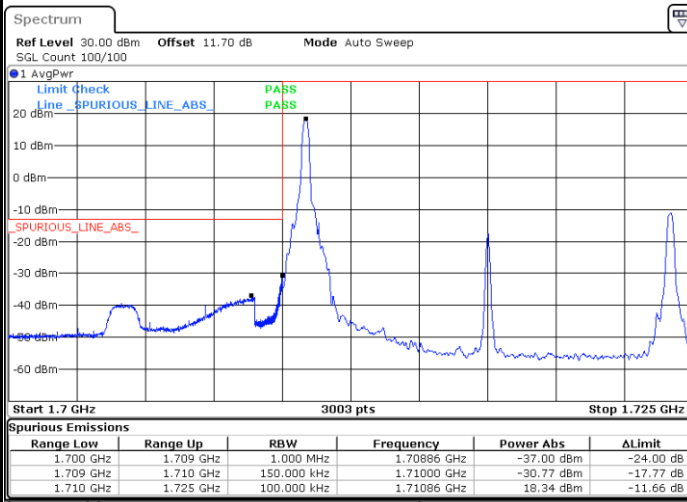
Highest Band Edge / Full RB





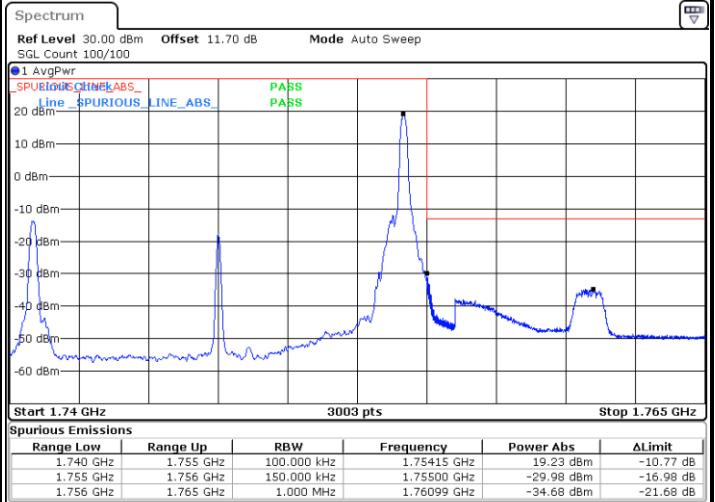
LTE Band 4 / 15MHz / QPSK

Lowest Band Edge / 1 RB



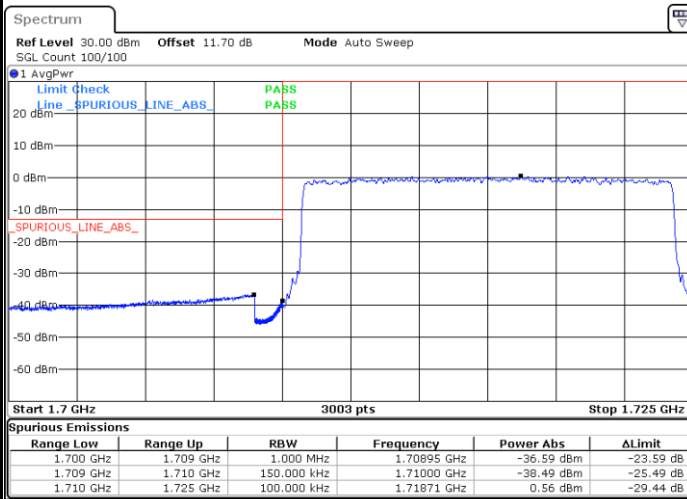
Date: 1.OCT.2019 10:39:07

Highest Band Edge / 1 RB



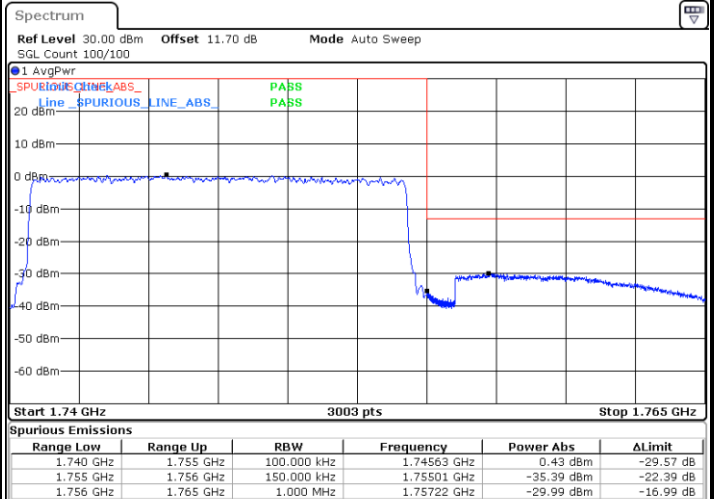
Date: 1.OCT.2019 10:45:39

Lowest Band Edge / Full RB



Date: 1.OCT.2019 10:41:08

Highest Band Edge / Full RB

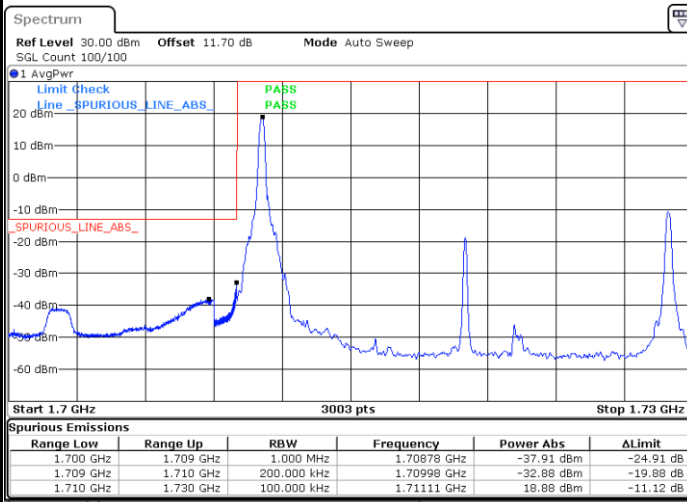


Date: 1.OCT.2019 10:47:40



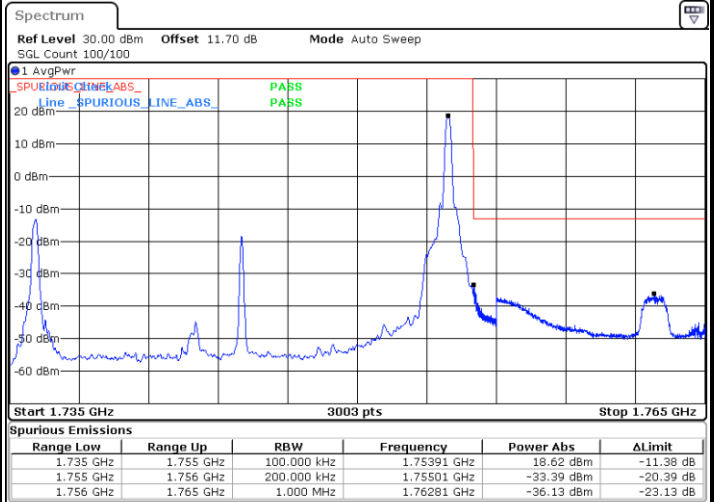
LTE Band 4 / 20MHz / QPSK

Lowest Band Edge / 1 RB



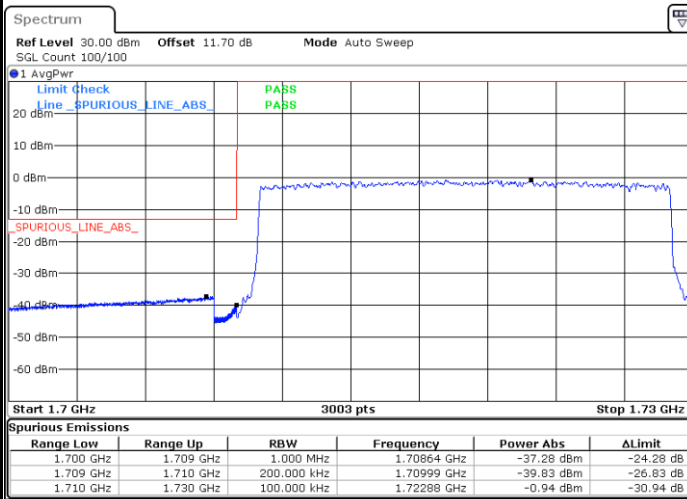
Date: 1.OCT.2019 10:50:28

Highest Band Edge / 1 RB



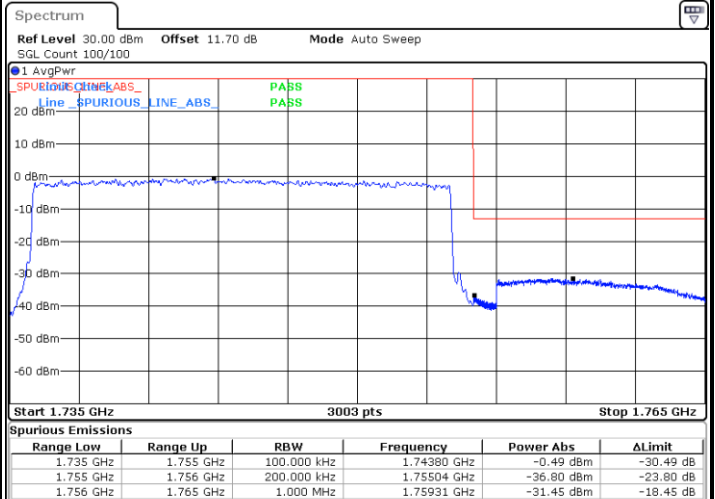
Date: 1.OCT.2019 10:57:01

Lowest Band Edge / Full RB



Date: 1.OCT.2019 10:52:30

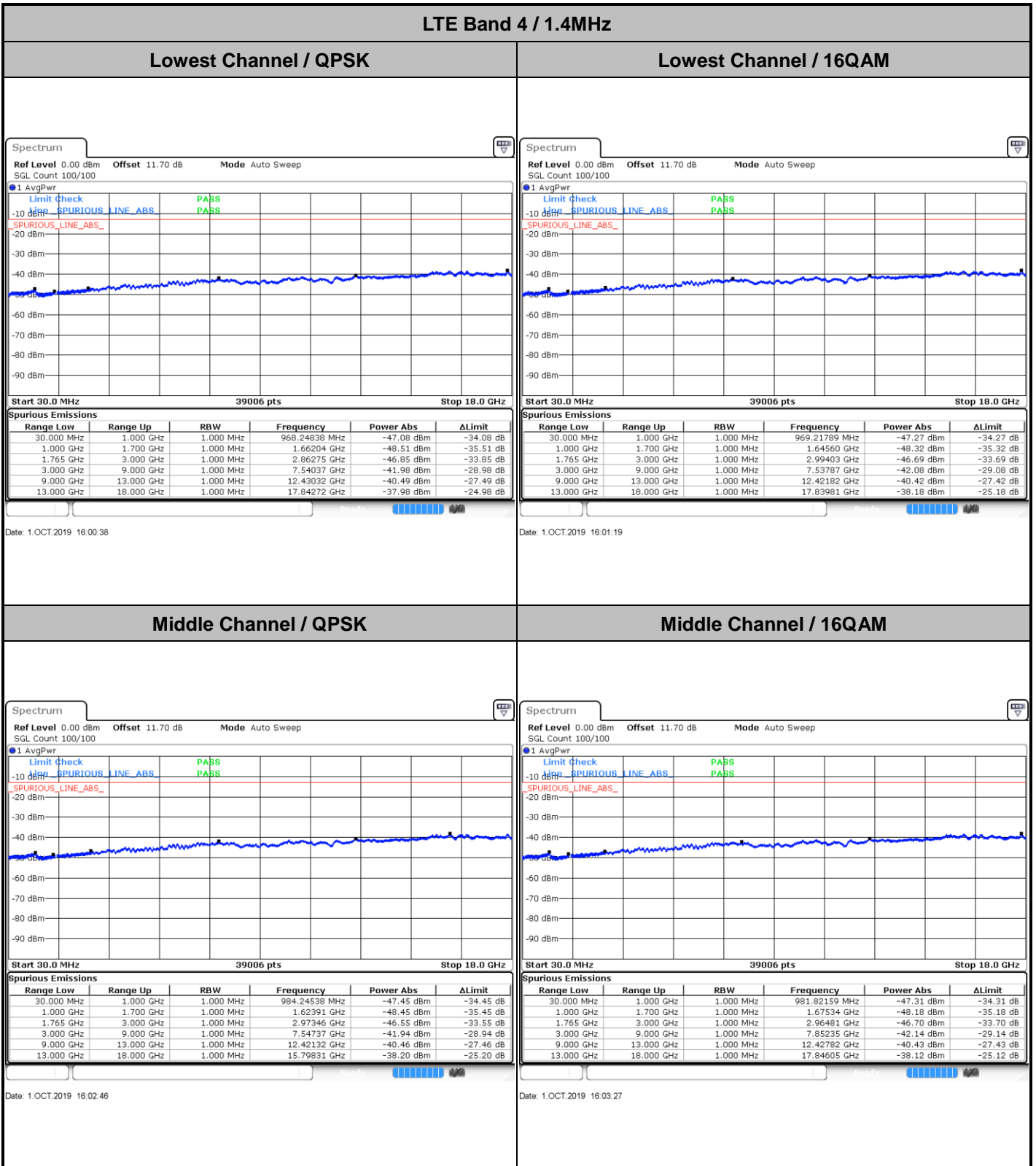
Highest Band Edge / Full RB



Date: 1.OCT.2019 10:59:03



Conducted Spurious Emission

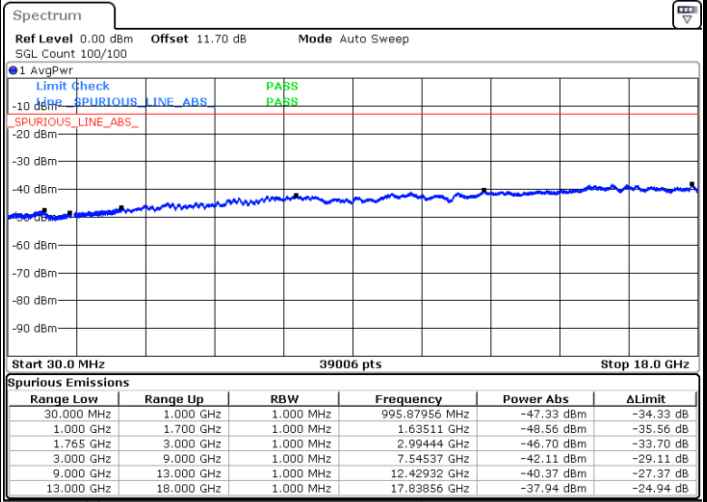
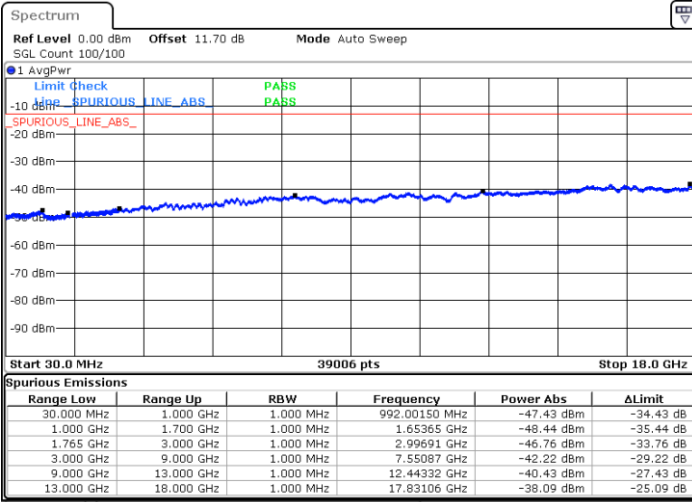




LTE Band 4 / 1.4MHz

Highest Channel / QPSK

Highest Channel / 16QAM



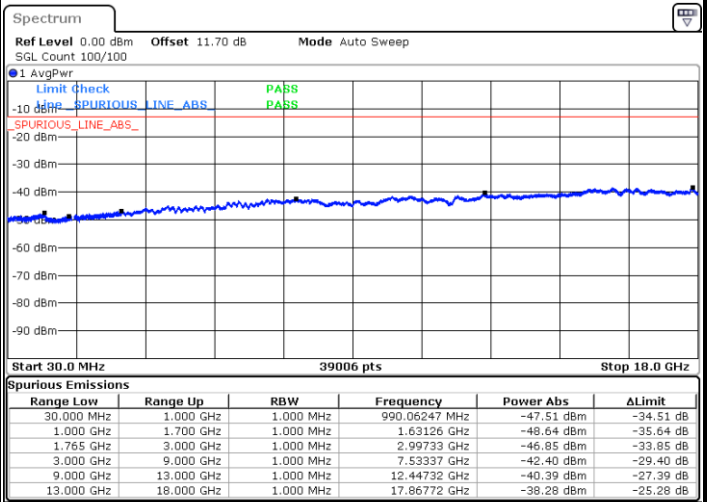
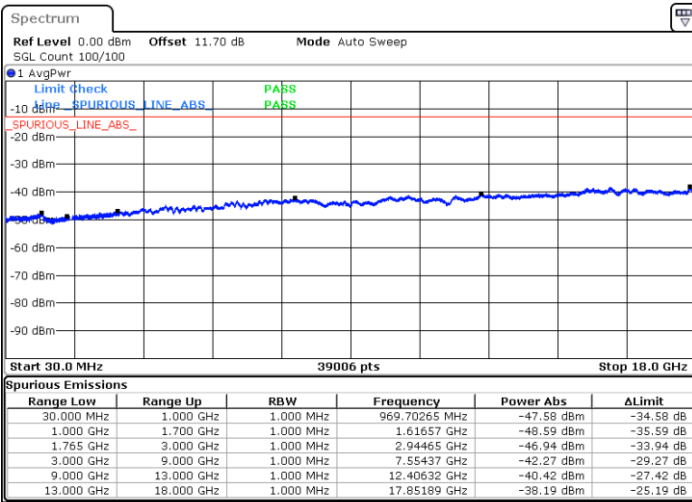
Date: 1.OCT.2019 16:09:12

Date: 1.OCT.2019 16:09:53

LTE Band 4 / 3MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 1.OCT.2019 10:02:38

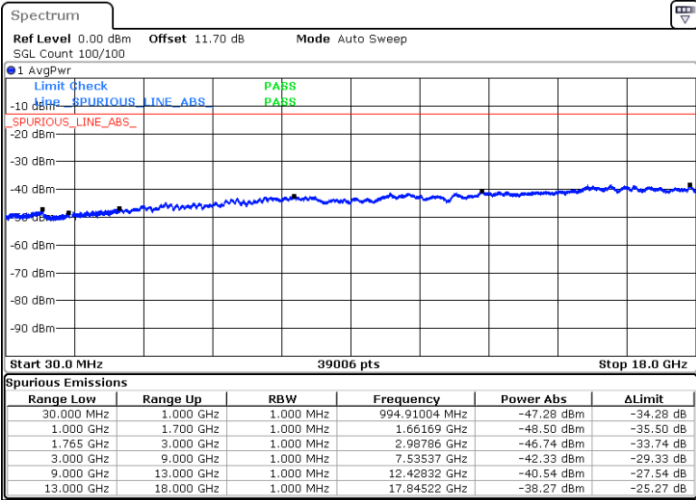
Date: 1.OCT.2019 10:03:20



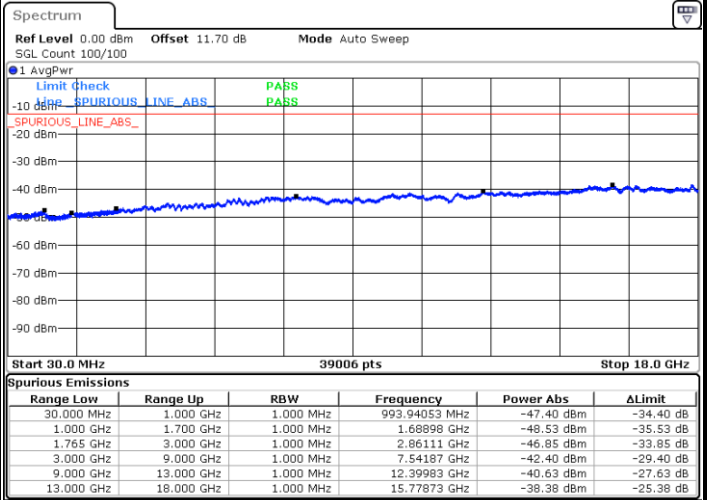
LTE Band 4 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM



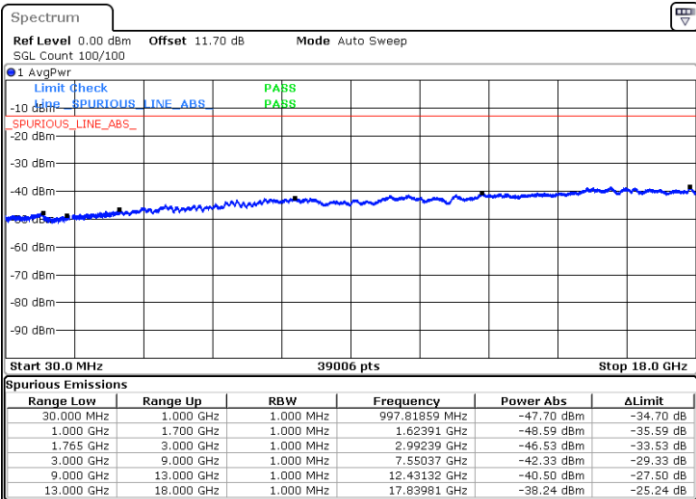
Date: 1.OCT.2019 10:04:47



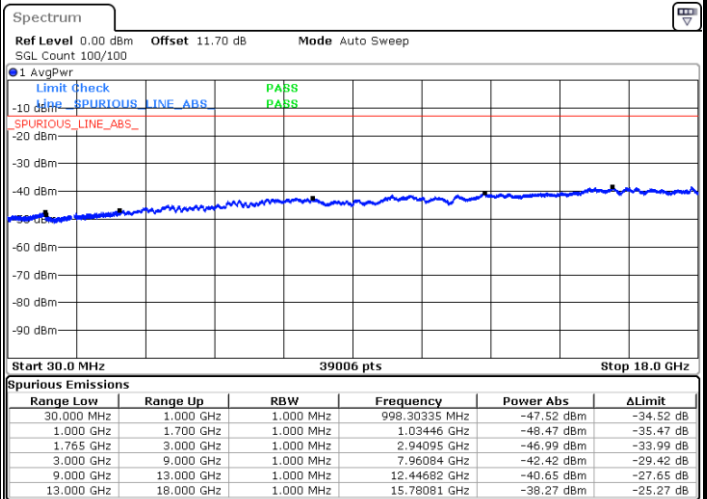
Date: 1.OCT.2019 10:05:27

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 1.OCT.2019 10:11:01



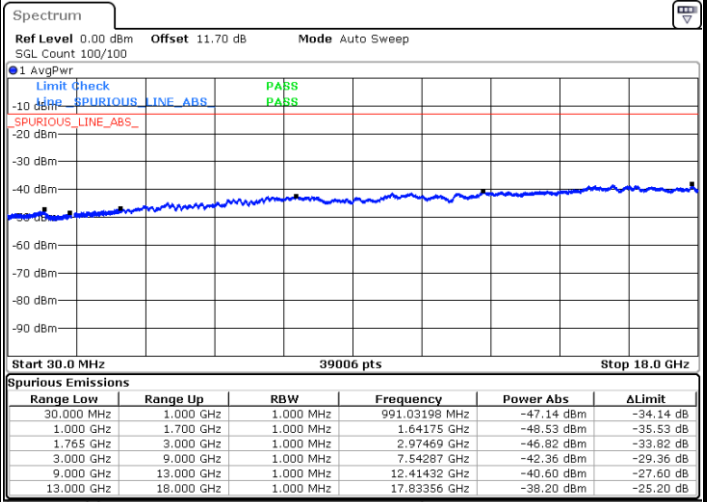
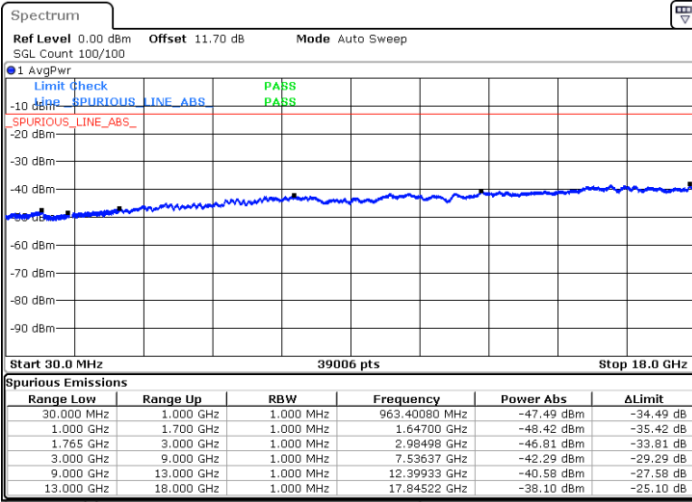
Date: 1.OCT.2019 10:11:42



LTE Band 4 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

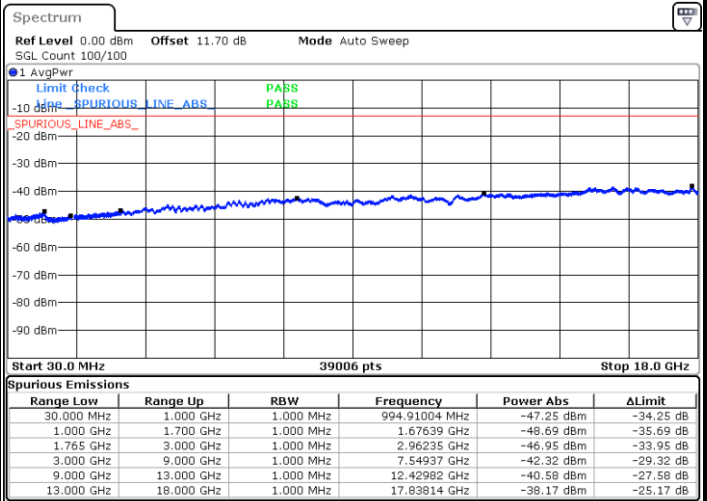
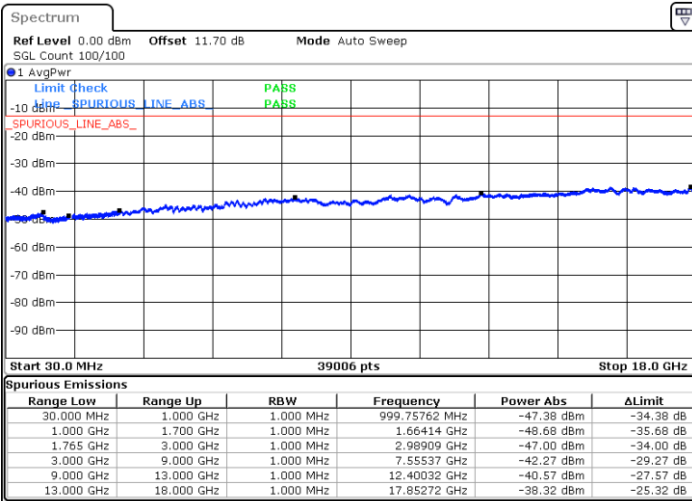


Date: 1.OCT.2019 10:17:16

Date: 1.OCT.2019 10:17:57

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 1.OCT.2019 10:19:24

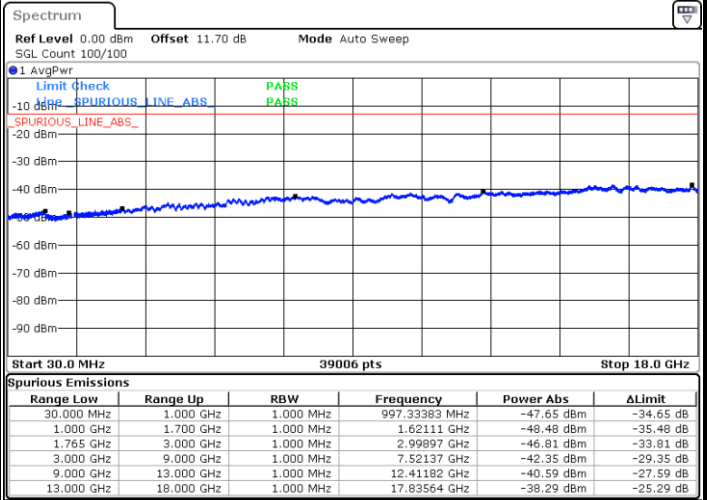
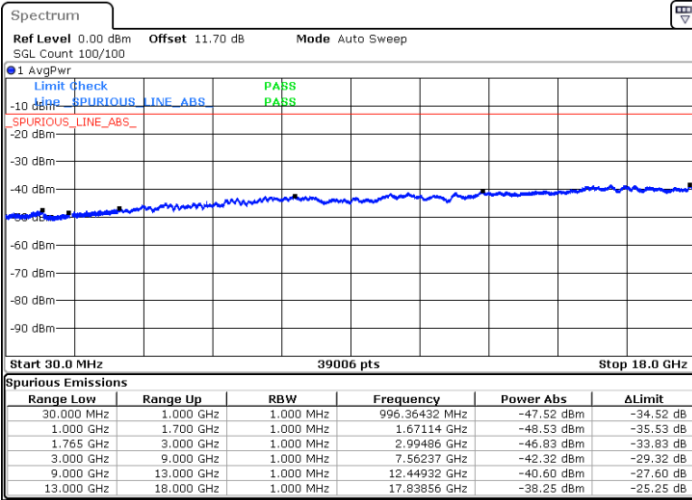
Date: 1.OCT.2019 10:20:05



LTE Band 4 / 5MHz

Highest Channel / QPSK

Highest Channel / 16QAM



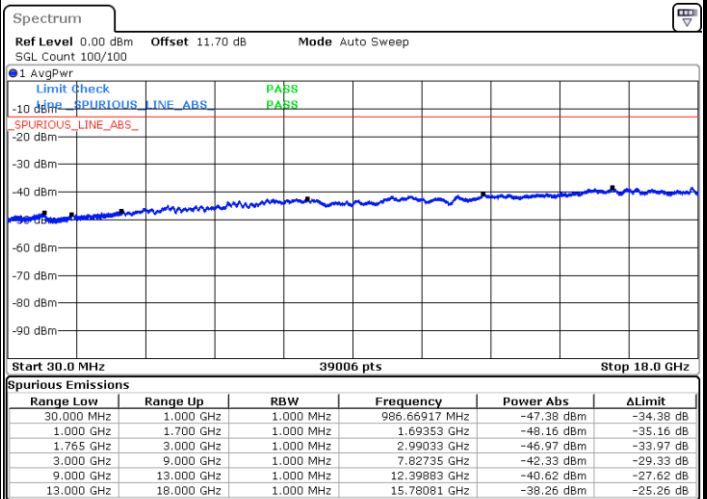
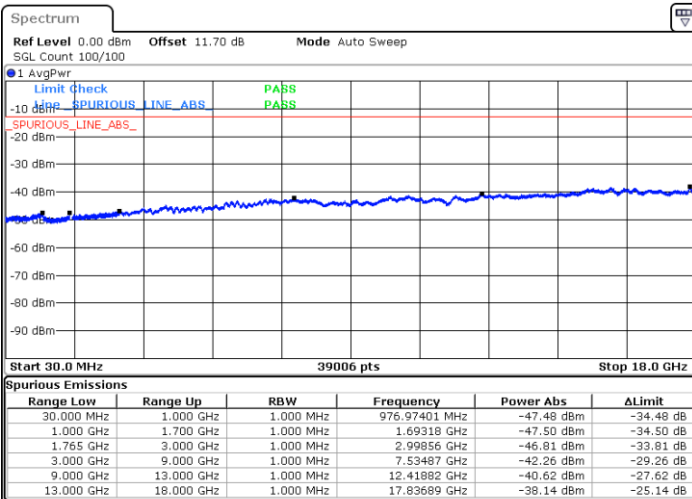
Date: 1.OCT.2019 10:25:38

Date: 1.OCT.2019 10:26:19

LTE Band 4 / 10MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 1.OCT.2019 10:30:27

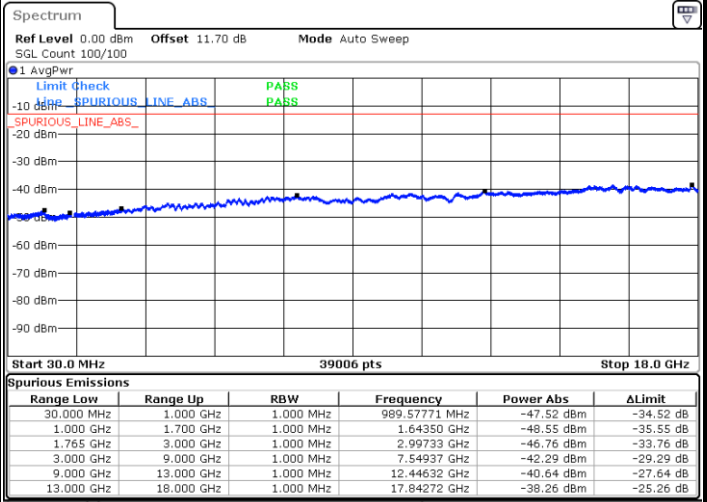
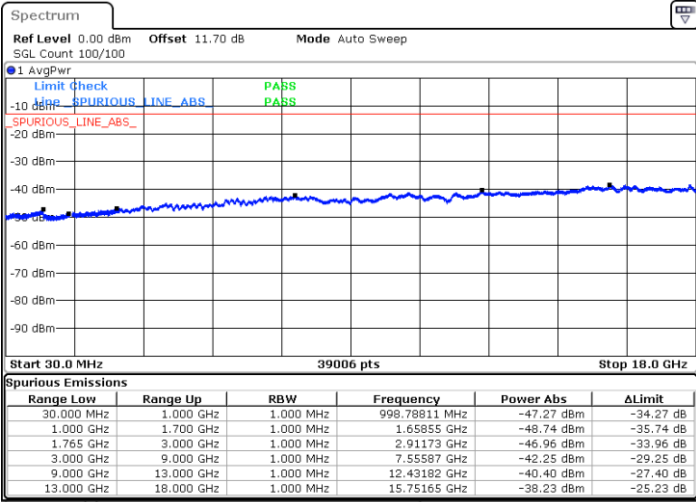
Date: 1.OCT.2019 10:31:08



LTE Band 4 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

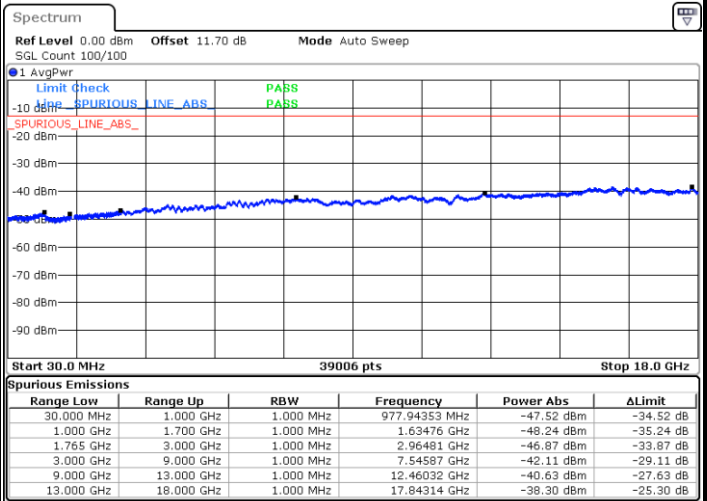
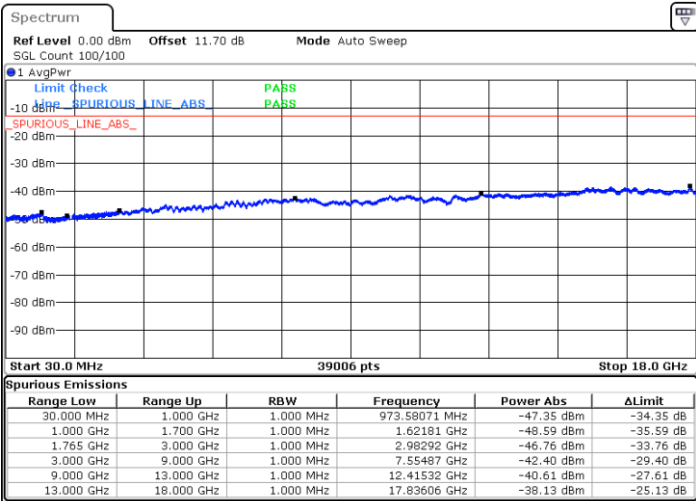


Date: 1.OCT.2019 10:32:12

Date: 1.OCT.2019 10:32:53

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 1.OCT.2019 10:37:01

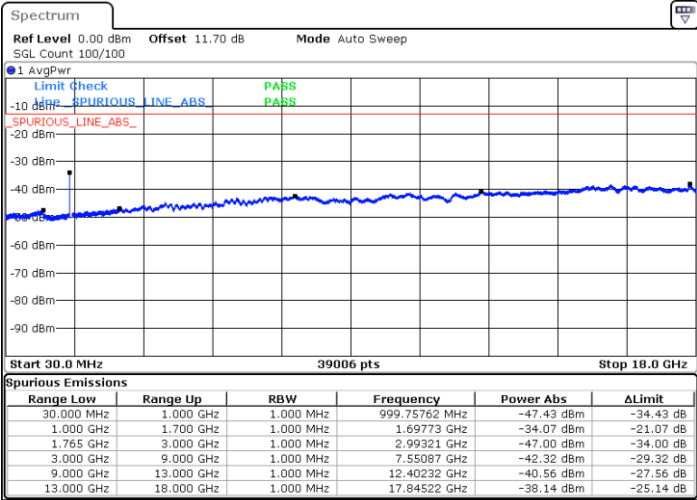
Date: 1.OCT.2019 10:37:42



LTE Band 4 / 15MHz

Lowest Channel / QPSK

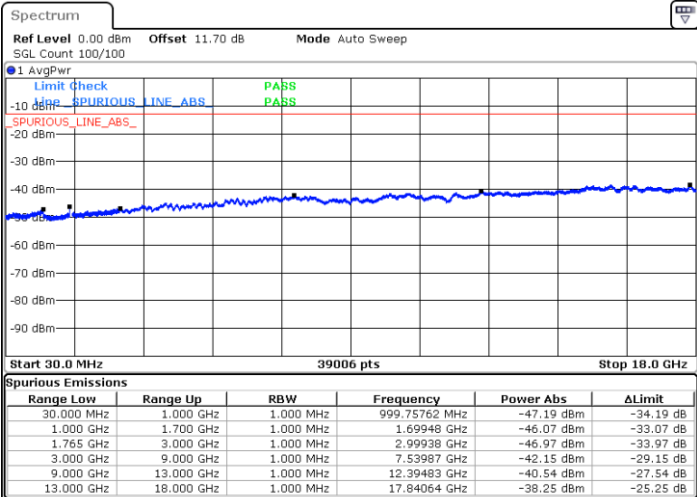
Lowest Channel / 16QAM



Date: 1.OCT.2019 10:41:49

Middle Channel / QPSK

Middle Channel / 16QAM

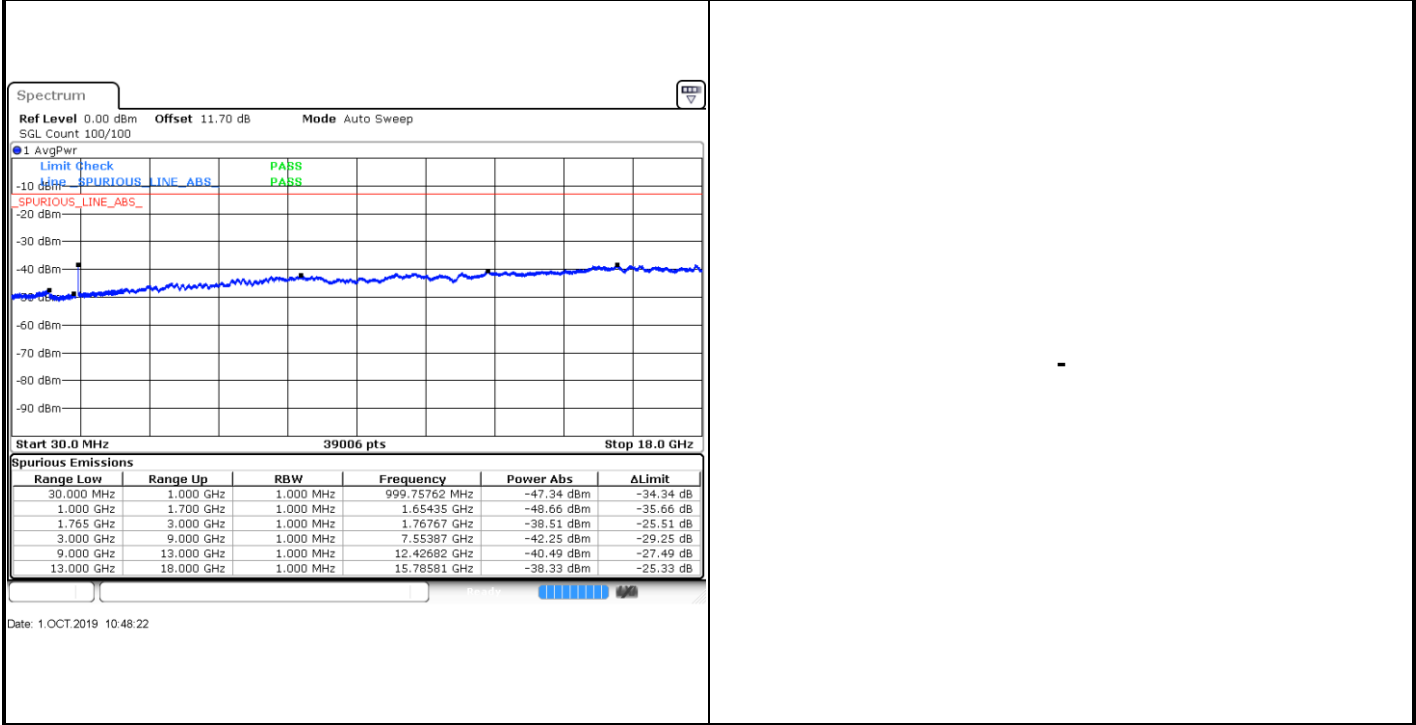


Date: 1.OCT.2019 10:43:34



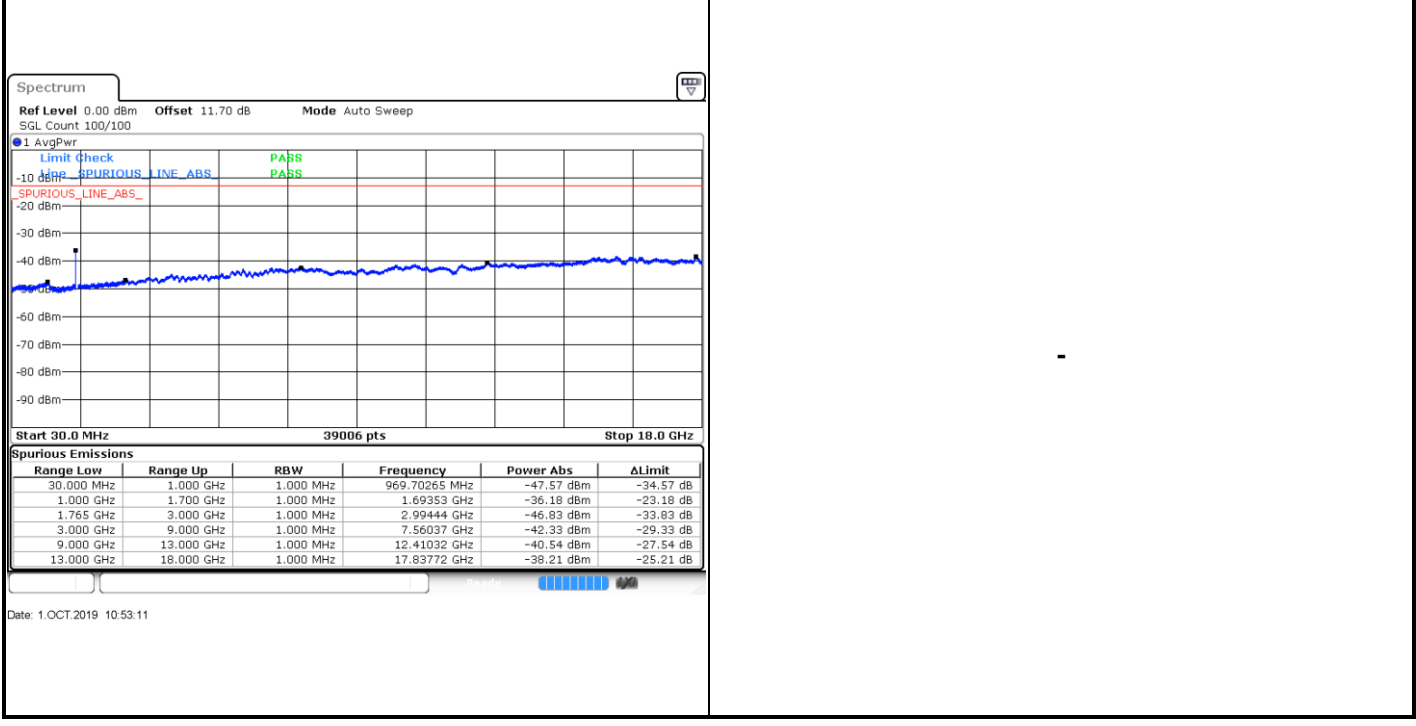
LTE Band 4 / 15MHz

Highest Channel / QPSK Highest Channel / 16QAM



LTE Band 4 / 20MHz

Lowest Channel / QPSK Lowest Channel / 16QAM

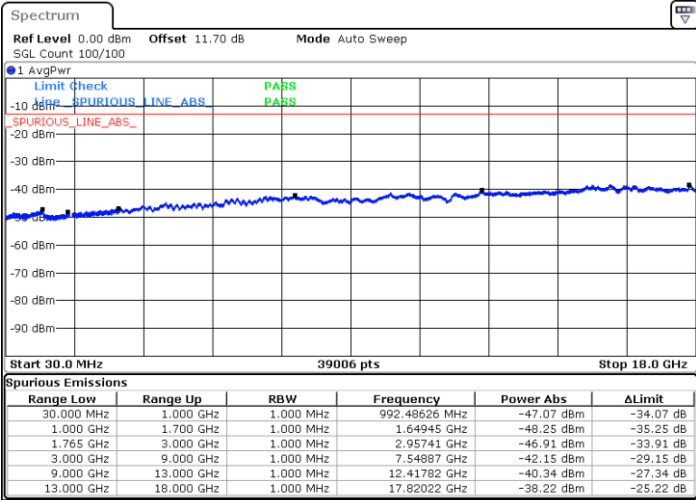




LTE Band 4 / 20MHz

Middle Channel / QPSK

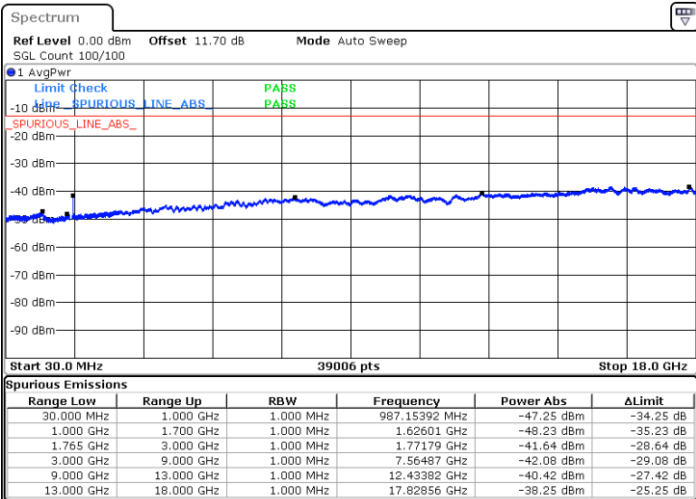
Middle Channel / 16QAM



Date: 1.OCT.2019 10:54:56

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 1.OCT.2019 10:59:44



Frequency Stability

Test Conditions		LTE Band 4 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0005	PASS
40	Normal Voltage	0.0003	
30	Normal Voltage	0.0020	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0021	
0	Normal Voltage	0.0002	
-10	Normal Voltage	0.0005	
-20	Normal Voltage	0.0002	
-30	Normal Voltage	0.0001	
20	Maximum Voltage	0.0004	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0001	

Note:

1. Normal Voltage =4.0 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.3 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 5

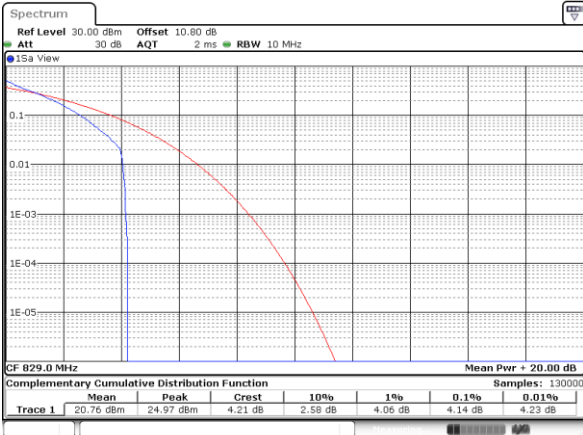
Peak-to-Average Ratio

Mode	LTE Band 5 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.14	4.84	5.07	-	PASS
Middle CH	4.29	4.55	4.96	-	
Highest CH	3.86	4.55	4.81	-	



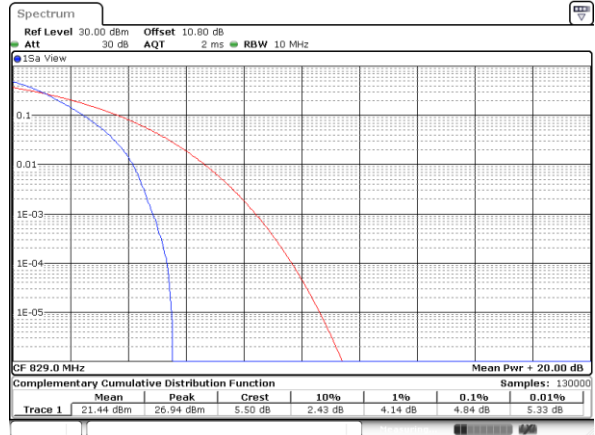
LTE Band 5 / 10MHz / QPSK

Lowest Channel / 1RB



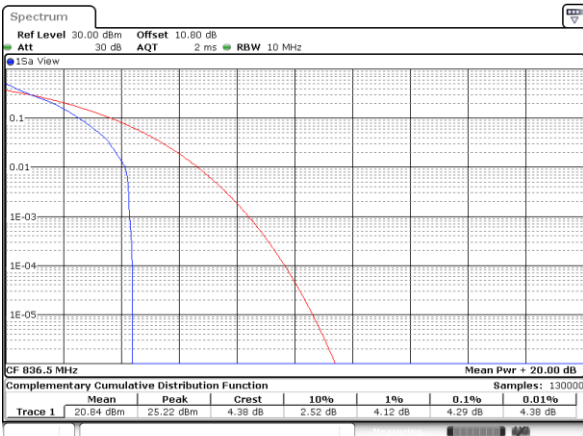
Date: 5.OCT.2019 01:46:12

Lowest Channel / Full RB



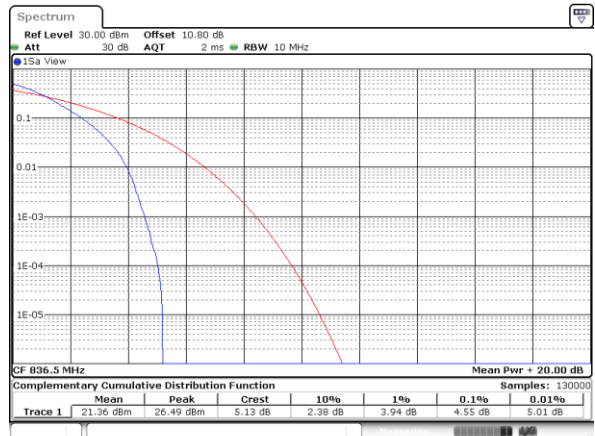
Date: 5.OCT.2019 01:46:24

Middle Channel / 1RB



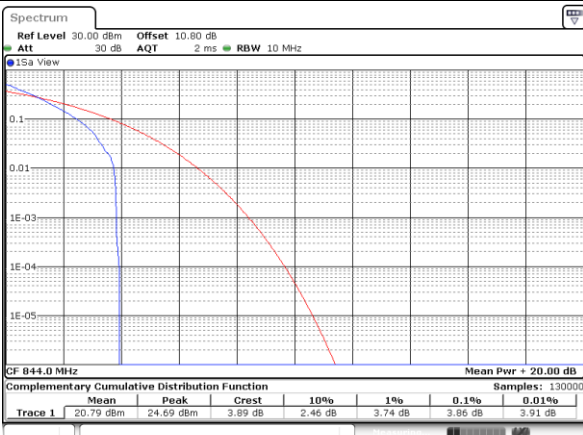
Date: 5.OCT.2019 01:46:34

Middle Channel / Full RB



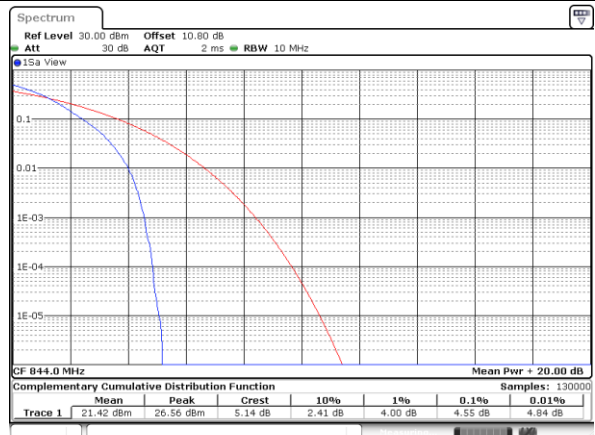
Date: 5.OCT.2019 01:46:44

Highest Channel / 1RB



Date: 5.OCT.2019 01:46:54

Highest Channel / Full RB

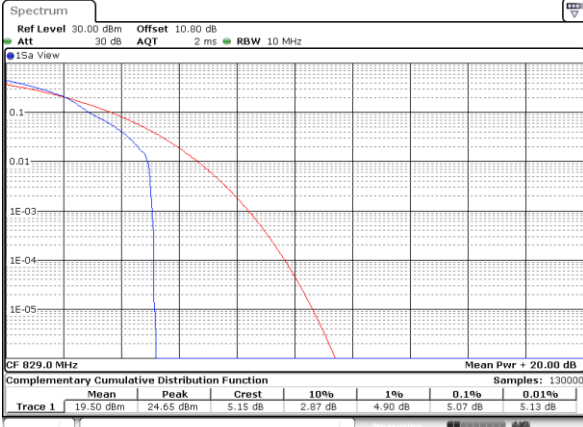


Date: 5.OCT.2019 01:47:27



LTE Band 5 / 10MHz / 16QAM

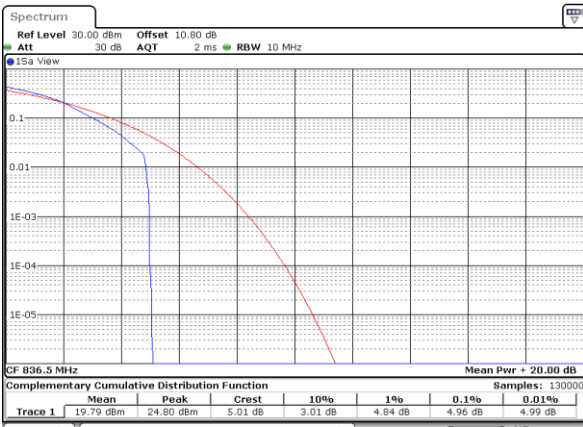
Lowest Channel / 1RB



Date: 5 OCT 2019 01:45:38

Lowest Channel / Full RB

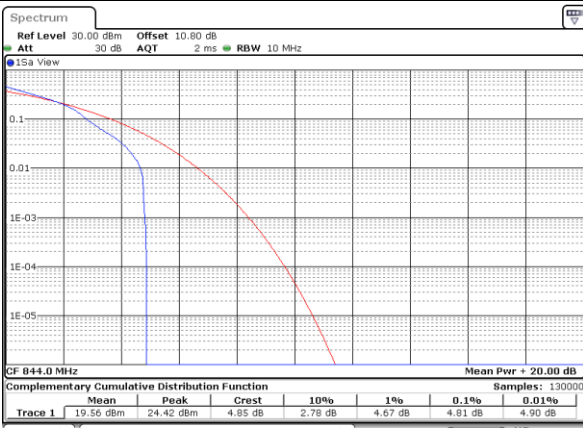
Middle Channel / 1RB



Date: 5 OCT 2019 01:45:52

Middle Channel / Full RB

Highest Channel / 1RB



Date: 5 OCT 2019 01:46:02

Highest Channel / Full RB



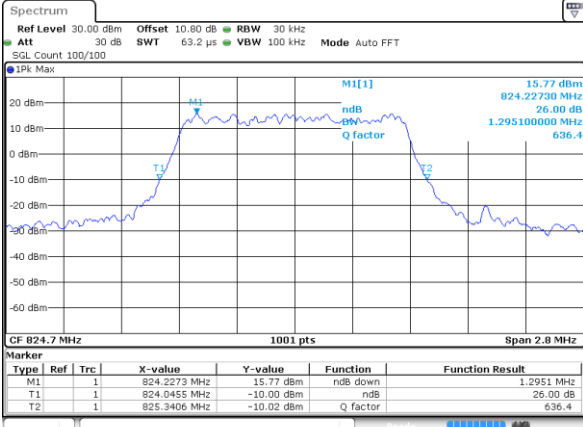
26dB Bandwidth

Mode	LTE Band 5 : 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	1.30	1.28	3.03	3.00	4.84	4.85	9.59	-	-	-	-	-
Middle CH	1.26	1.30	3.06	3.01	4.86	4.88	9.73	-	-	-	-	-
Highest CH	1.28	1.31	3.01	3.04	4.95	4.86	9.79	-	-	-	-	-



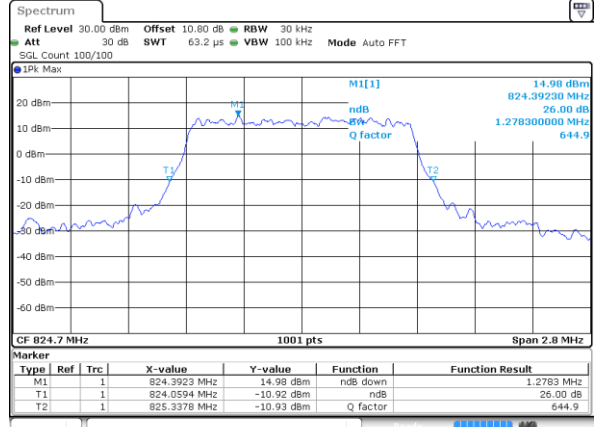
LTE Band 5

Lowest Channel / 1.4MHz / QPSK



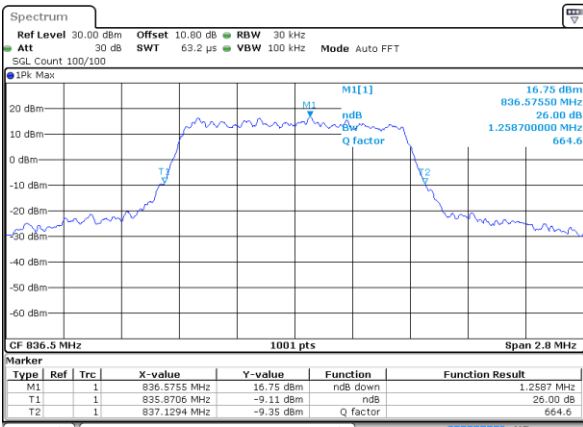
Date: 7.OCT.2019 19:53:15

Lowest Channel / 1.4MHz / 16QAM



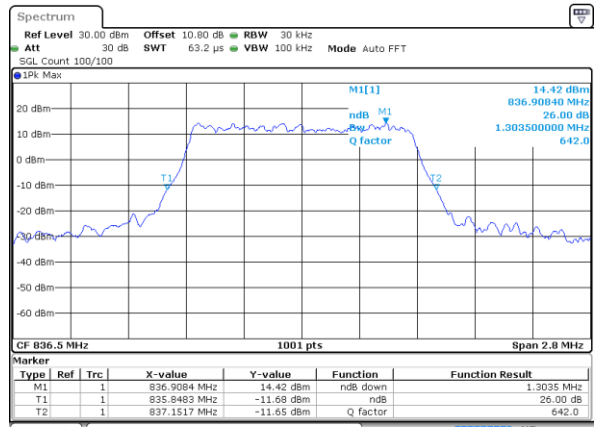
Date: 7.OCT.2019 19:53:04

Middle Channel / 1.4MHz / QPSK



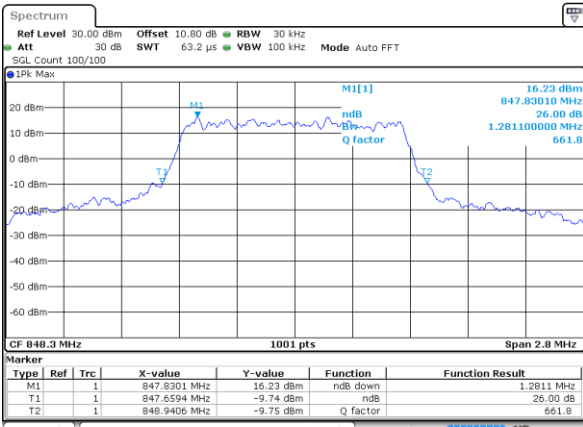
Date: 7.OCT.2019 20:02:22

Middle Channel / 1.4MHz / 16QAM



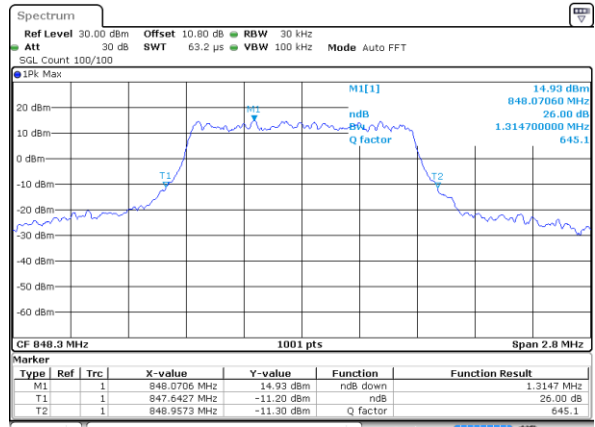
Date: 7.OCT.2019 20:02:33

Highest Channel / 1.4MHz / QPSK



Date: 7.OCT.2019 20:05:04

Highest Channel / 1.4MHz / 16QAM

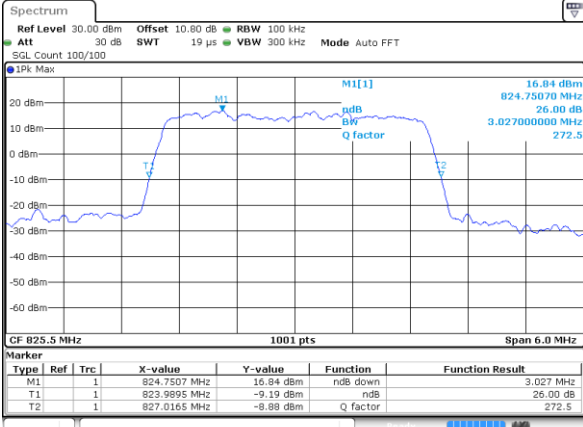


Date: 7.OCT.2019 20:05:15



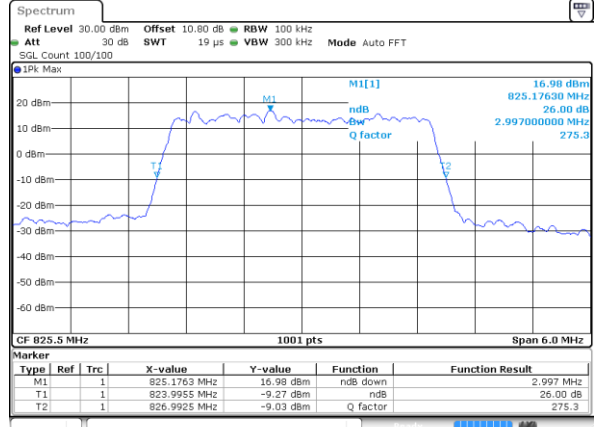
LTE Band 5

Lowest Channel / 3MHz / QPSK



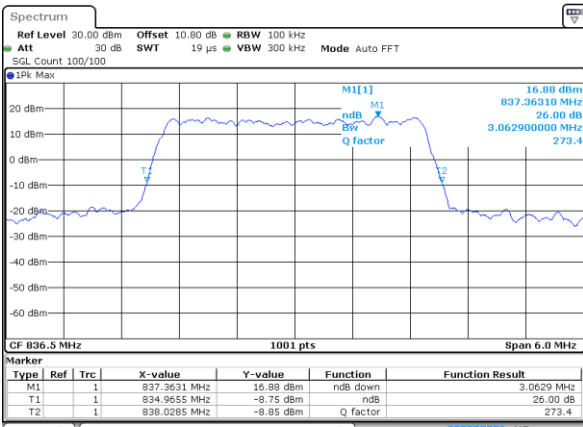
Date: 5.OCT.2019 00:49:15

Lowest Channel / 3MHz / 16QAM



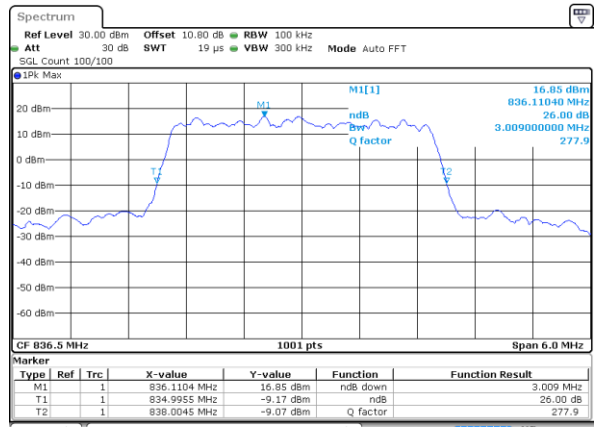
Date: 5.OCT.2019 00:49:27

Middle Channel / 3MHz / QPSK



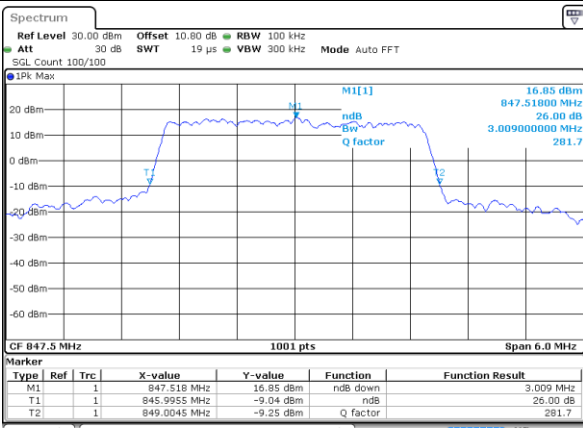
Date: 5.OCT.2019 00:58:06

Middle Channel / 3MHz / 16QAM



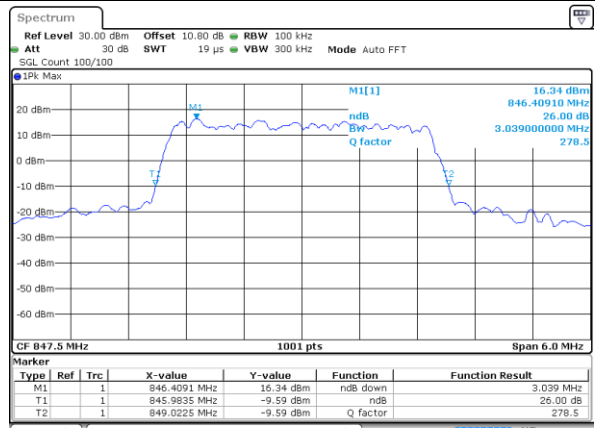
Date: 5.OCT.2019 00:58:18

Highest Channel / 3MHz / QPSK



Date: 5.OCT.2019 01:00:14

Highest Channel / 3MHz / 16QAM

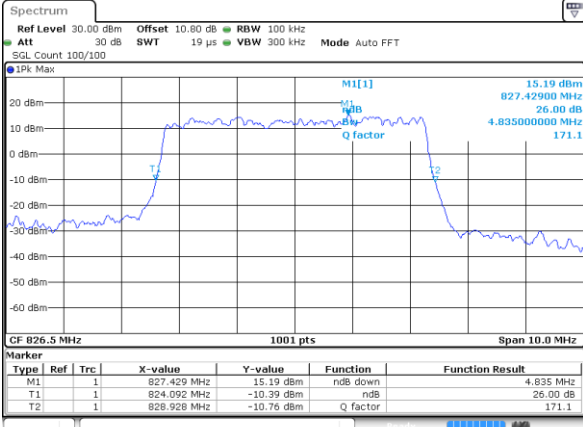


Date: 5.OCT.2019 01:00:26



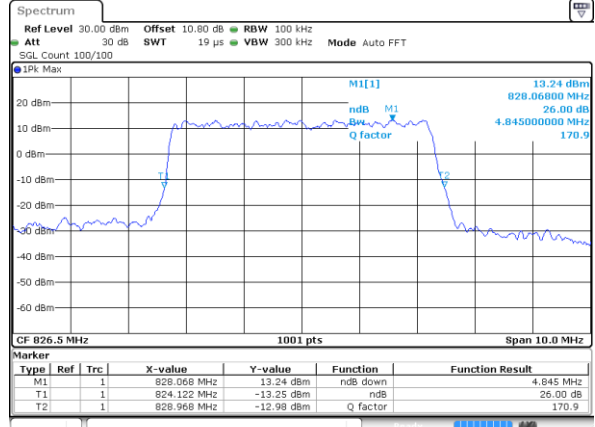
LTE Band 5

Lowest Channel / 5MHz / QPSK



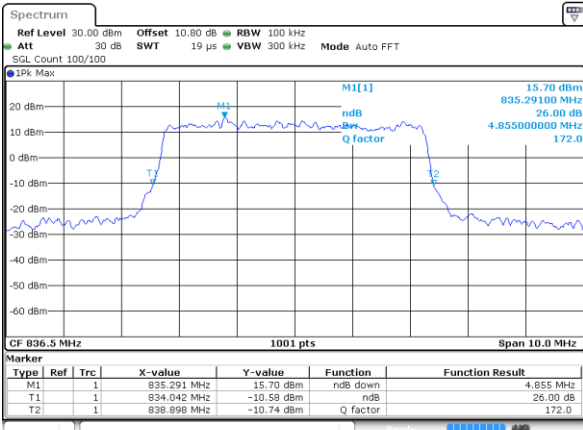
Date: 5.OCT.2019 01:09:08

Lowest Channel / 5MHz / 16QAM



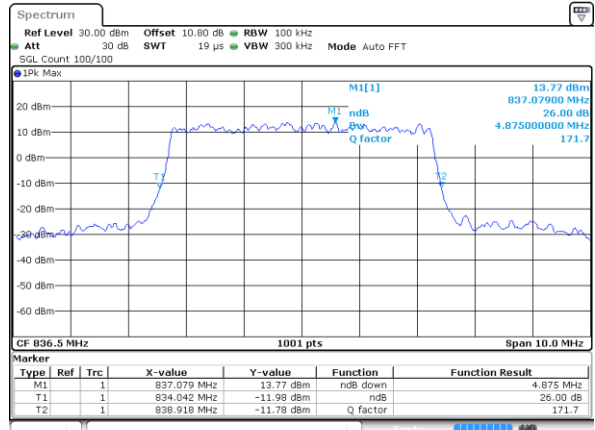
Date: 5.OCT.2019 01:09:20

Middle Channel / 5MHz / QPSK



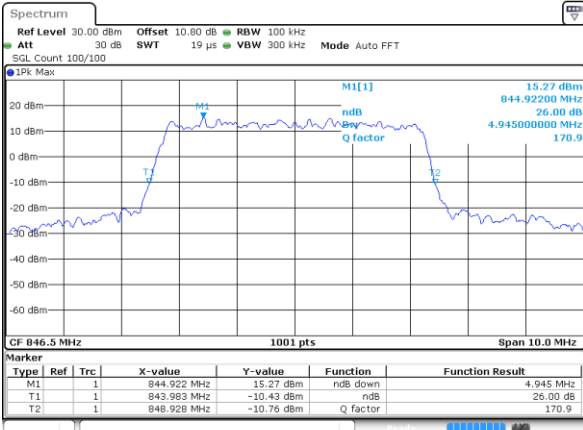
Date: 5.OCT.2019 01:17:59

Middle Channel / 5MHz / 16QAM



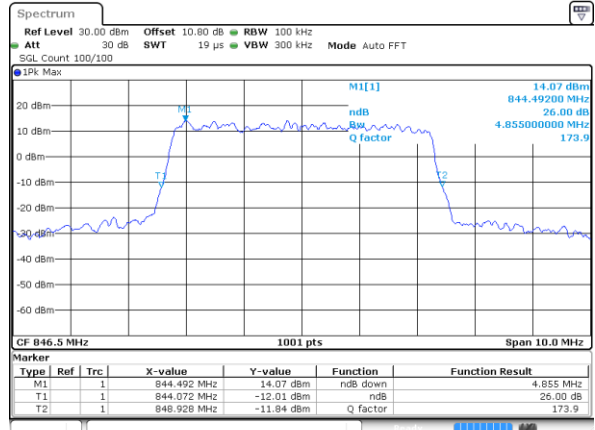
Date: 5.OCT.2019 01:18:11

Highest Channel / 5MHz / QPSK



Date: 5.OCT.2019 01:20:07

Highest Channel / 5MHz / 16QAM



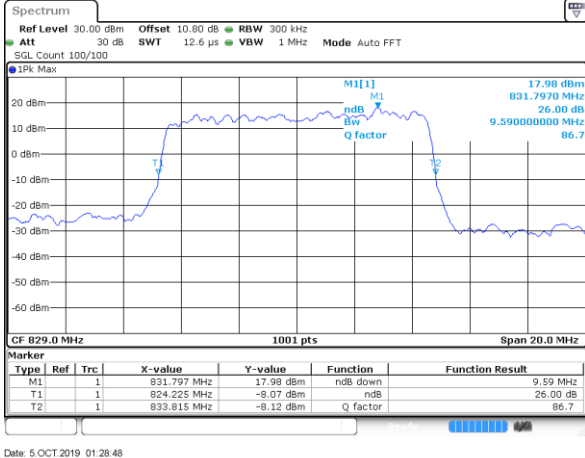
Date: 5.OCT.2019 01:20:19



LTE Band 5

Lowest Channel / 10MHz / QPSK

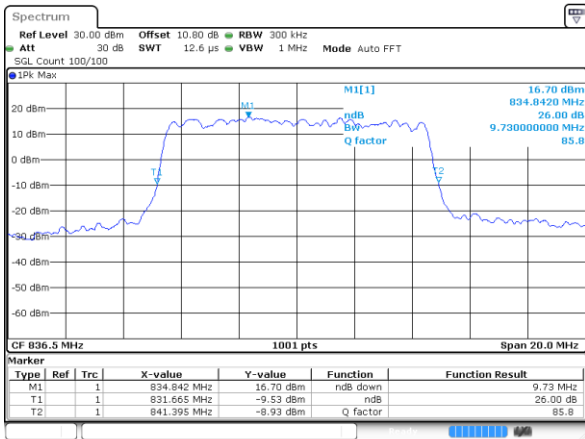
Lowest Channel / 10MHz / 16QAM



Date: 5 OCT 2019 01:28:48

Middle Channel / 10MHz / QPSK

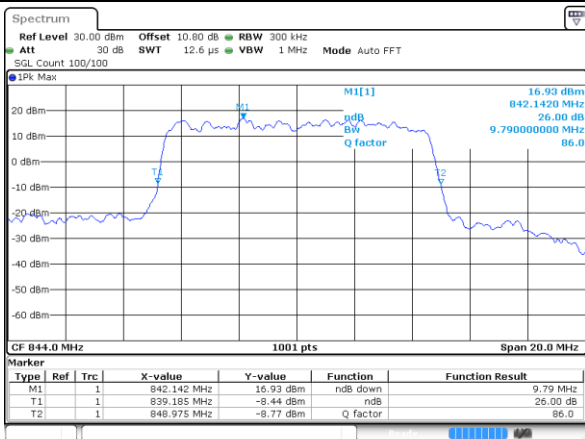
Middle Channel / 10MHz / 16QAM



Date: 5 OCT 2019 01:35:35

Highest Channel / 10MHz / QPSK

Highest Channel / 10MHz / 16QAM



Date: 5 OCT 2019 01:37:19



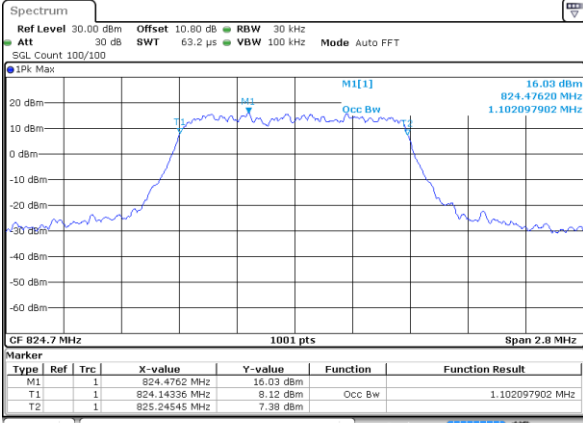
Occupied Bandwidth

Mode	LTE Band 5 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW												
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.10	1.09	2.72	2.71	4.49	4.50	9.03	-	-	-	-	-
Middle CH	1.09	1.09	2.73	2.72	4.49	4.47	8.95	-	-	-	-	-
Highest CH	1.09	1.09	2.70	2.70	4.50	4.49	8.99	-	-	-	-	-



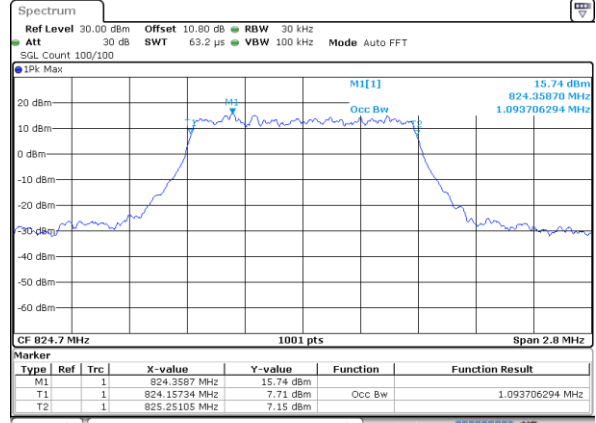
LTE Band 5

Lowest Channel / 1.4MHz / QPSK



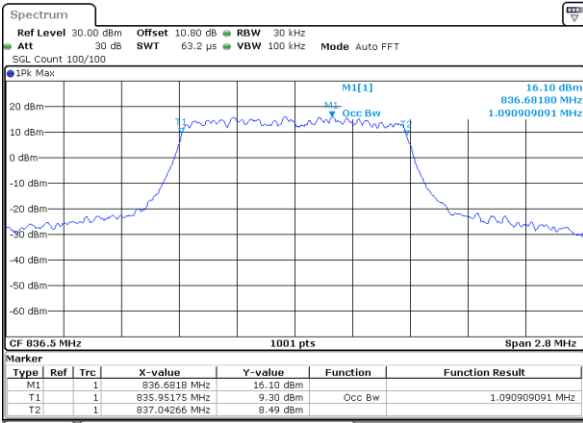
Date: 7.OCT.2019 19:52:42

Lowest Channel / 1.4MHz / 16QAM



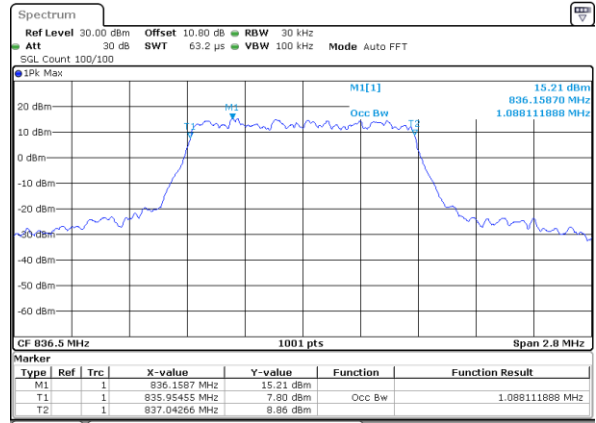
Date: 7.OCT.2019 19:52:53

Middle Channel / 1.4MHz / QPSK



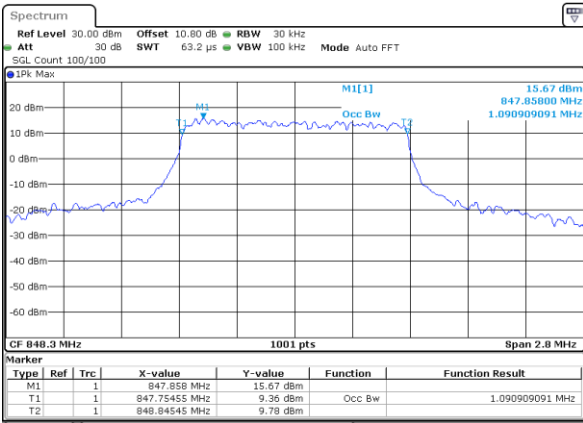
Date: 7.OCT.2019 20:02:00

Middle Channel / 1.4MHz / 16QAM



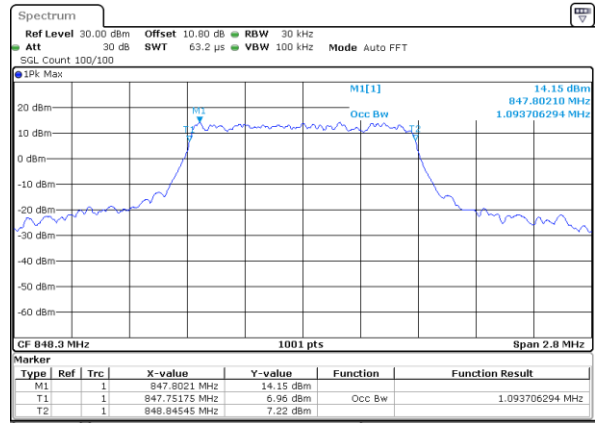
Date: 7.OCT.2019 20:02:11

Highest Channel / 1.4MHz / QPSK



Date: 7.OCT.2019 20:04:42

Highest Channel / 1.4MHz / 16QAM

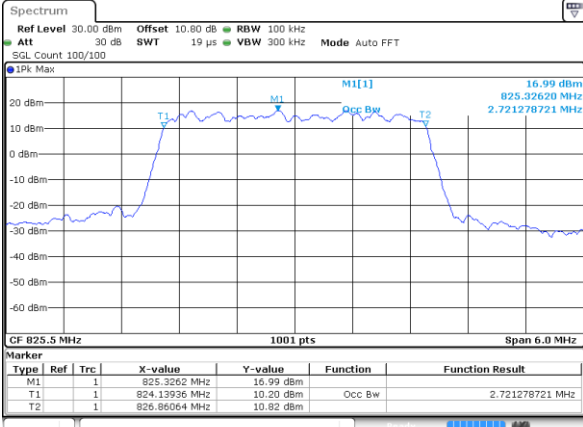


Date: 7.OCT.2019 20:04:53



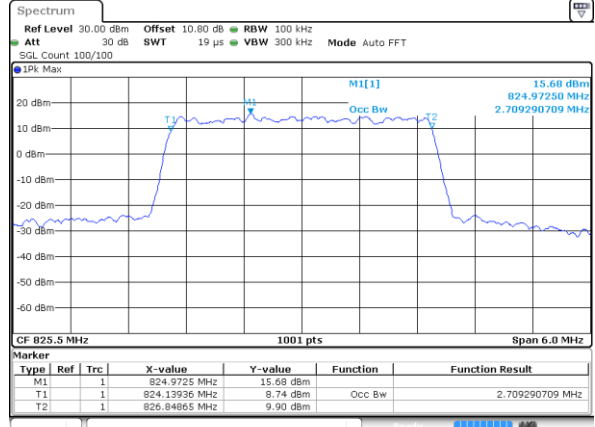
LTE Band 5

Lowest Channel / 3MHz / QPSK



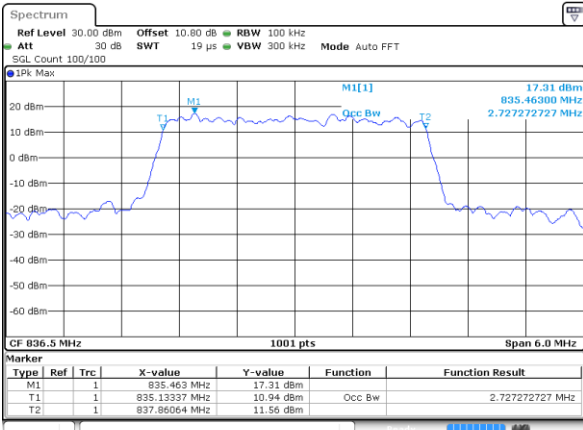
Date: 5.OCT.2019 00:48:51

Lowest Channel / 3MHz / 16QAM



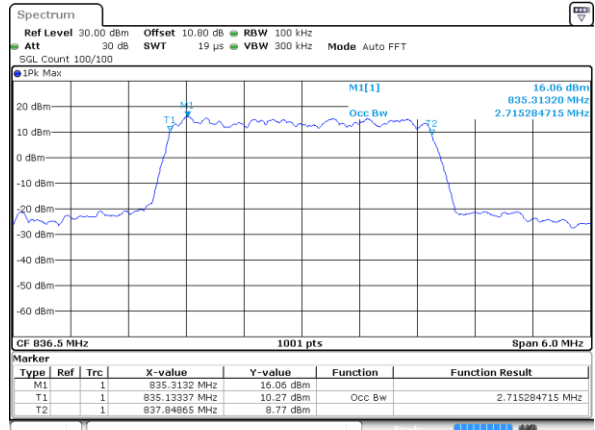
Date: 5.OCT.2019 00:49:03

Middle Channel / 3MHz / QPSK



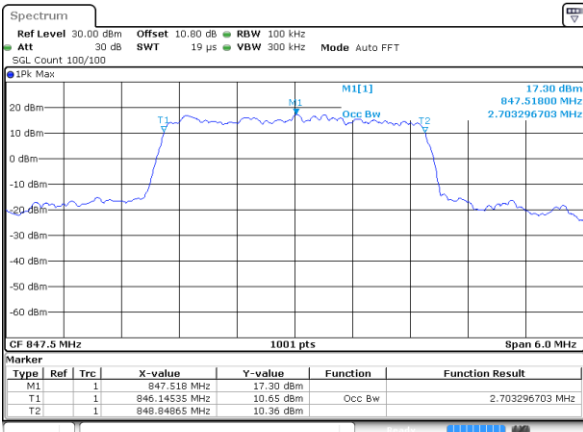
Date: 5.OCT.2019 00:57:43

Middle Channel / 3MHz / 16QAM



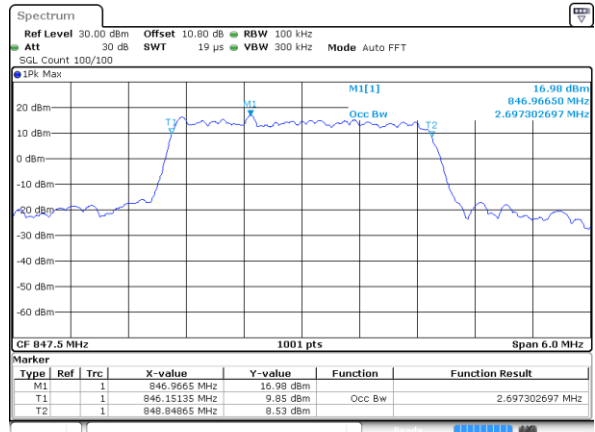
Date: 5.OCT.2019 00:57:55

Highest Channel / 3MHz / QPSK



Date: 5.OCT.2019 00:59:50

Highest Channel / 3MHz / 16QAM

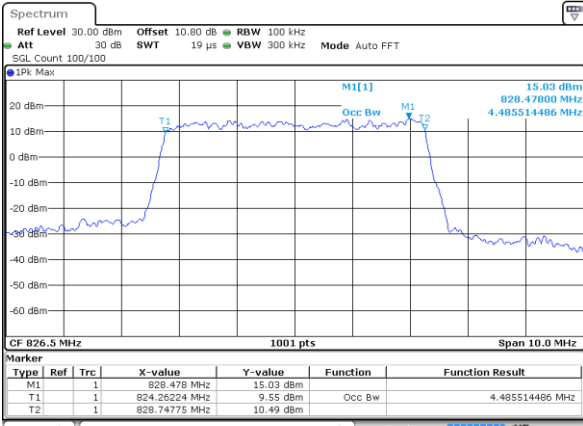


Date: 5.OCT.2019 01:00:02



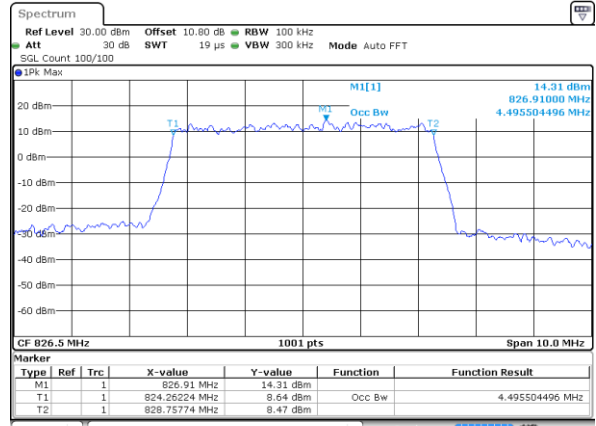
LTE Band 5

Lowest Channel / 5MHz / QPSK



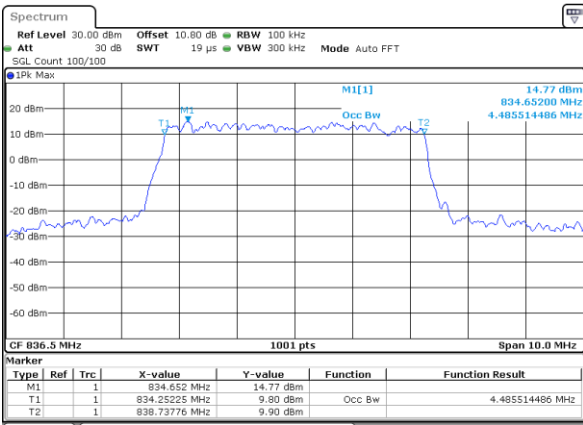
Date: 5.OCT.2019 01:08:44

Lowest Channel / 5MHz / 16QAM



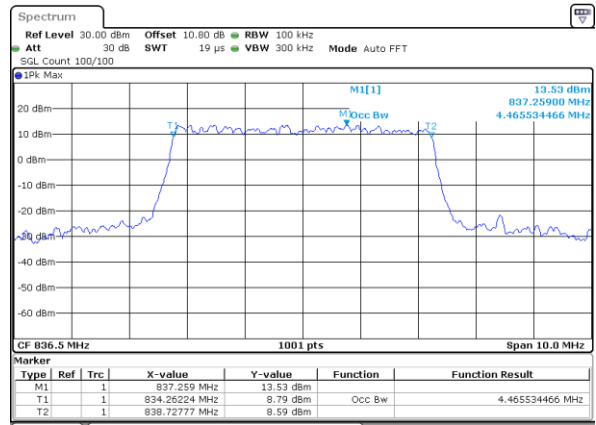
Date: 5.OCT.2019 01:08:56

Middle Channel / 5MHz / QPSK



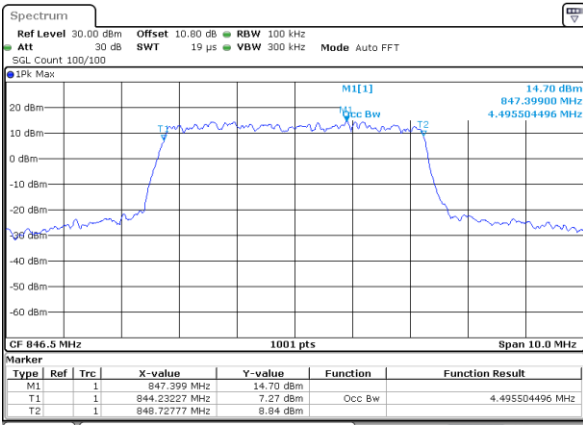
Date: 5.OCT.2019 01:17:37

Middle Channel / 5MHz / 16QAM



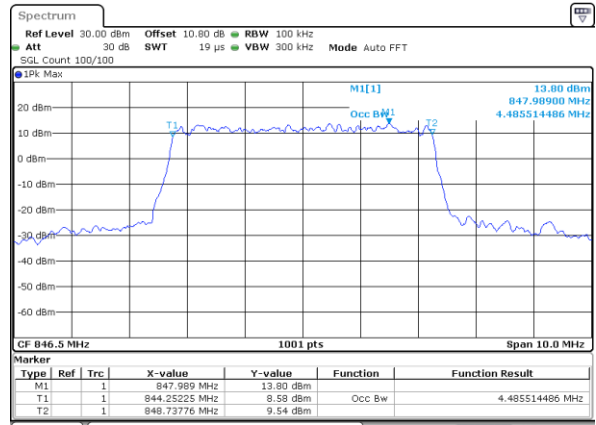
Date: 5.OCT.2019 01:17:48

Highest Channel / 5MHz / QPSK



Date: 5.OCT.2019 01:19:43

Highest Channel / 5MHz / 16QAM



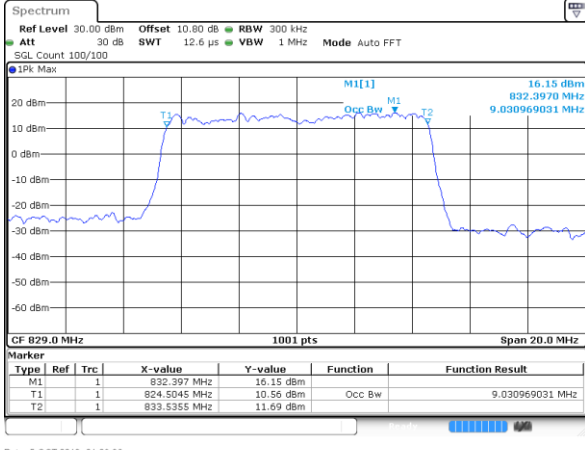
Date: 5.OCT.2019 01:19:55



LTE Band 5

Lowest Channel / 10MHz / QPSK

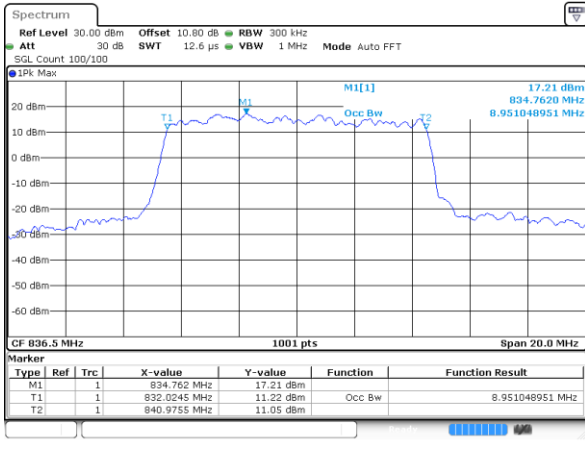
Lowest Channel / 10MHz / 16QAM



Date: 5 OCT 2019 01:28:36

Middle Channel / 10MHz / QPSK

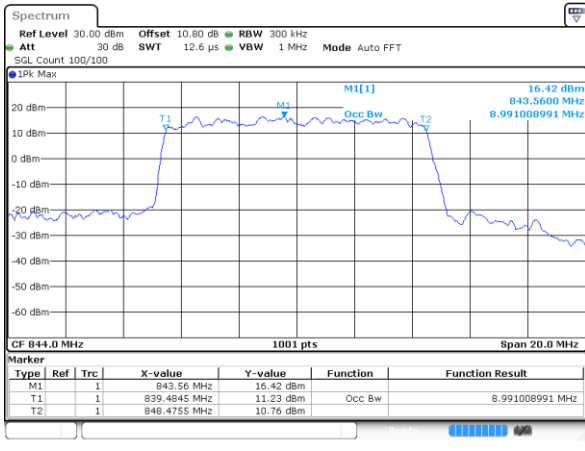
Middle Channel / 10MHz / 16QAM



Date: 5 OCT 2019 01:35:24

Highest Channel / 10MHz / QPSK

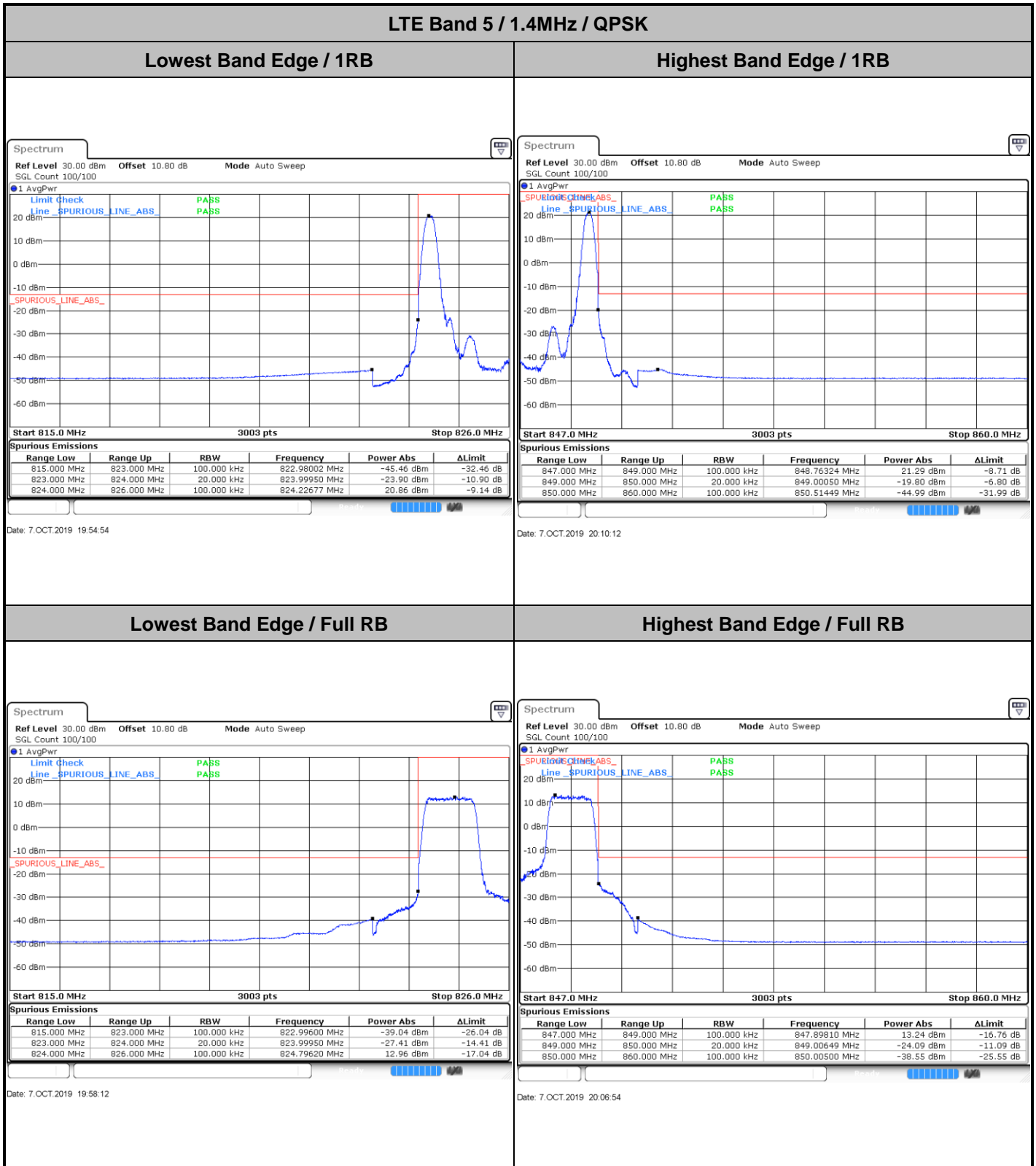
Highest Channel / 10MHz / 16QAM



Date: 5 OCT 2019 01:37:07



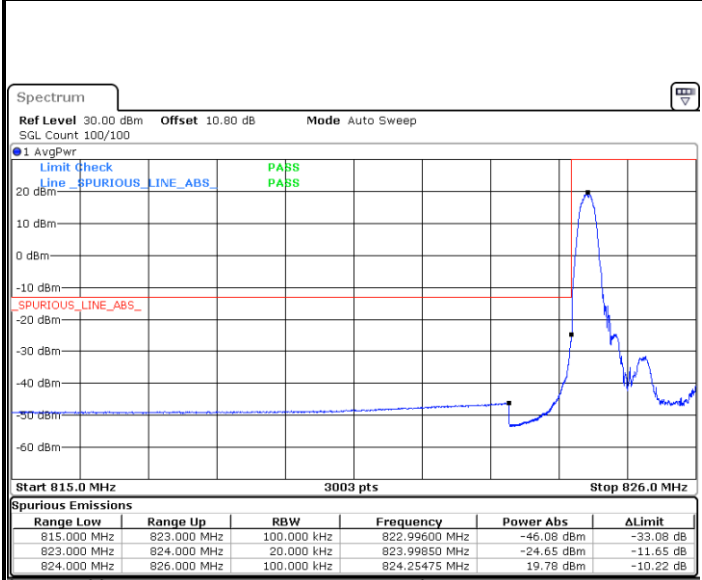
Conducted Band Edge





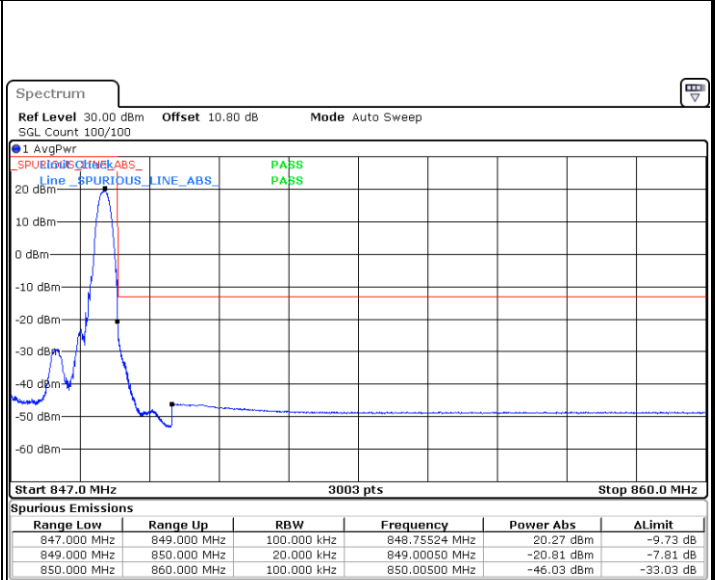
LTE Band 5 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



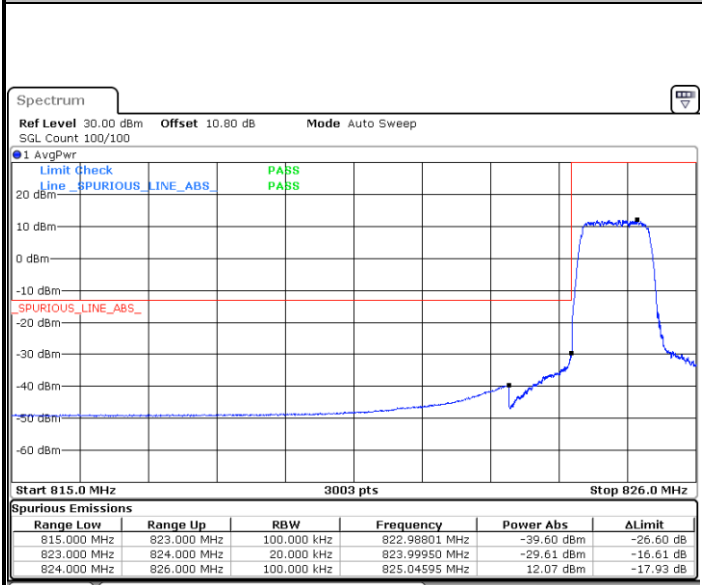
Date: 7.OCT.2019 19:56:33

Highest Band Edge / 1 RB



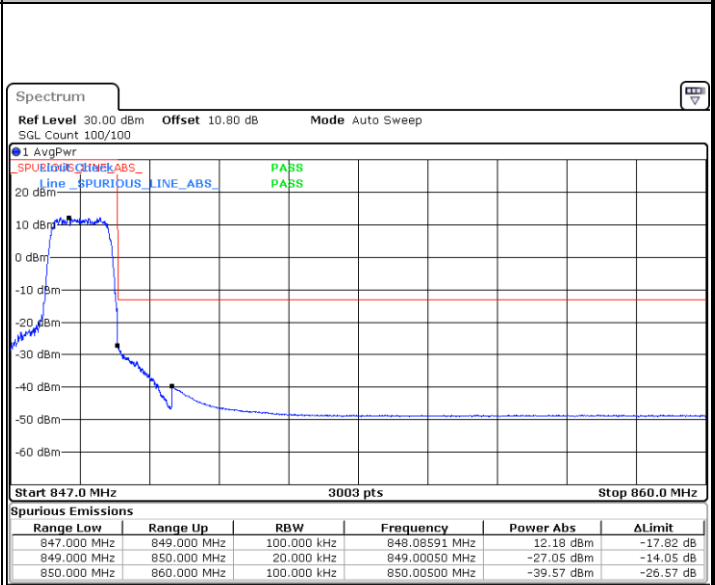
Date: 7.OCT.2019 20:11:51

Lowest Band Edge / Full RB



Date: 7.OCT.2019 19:59:51

Highest Band Edge / Full RB

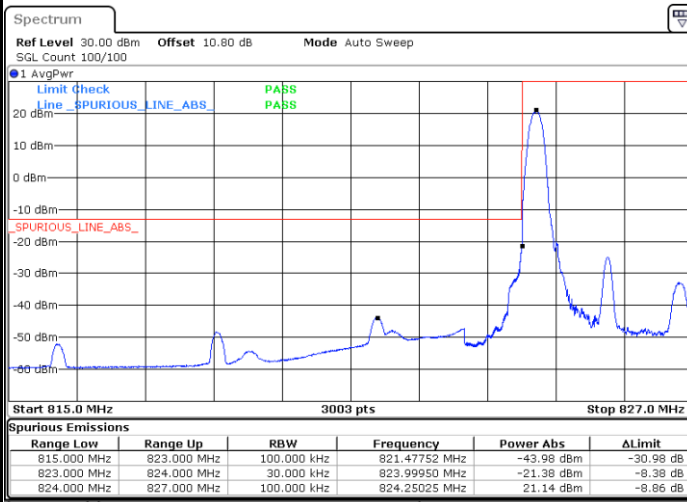


Date: 7.OCT.2019 20:08:33



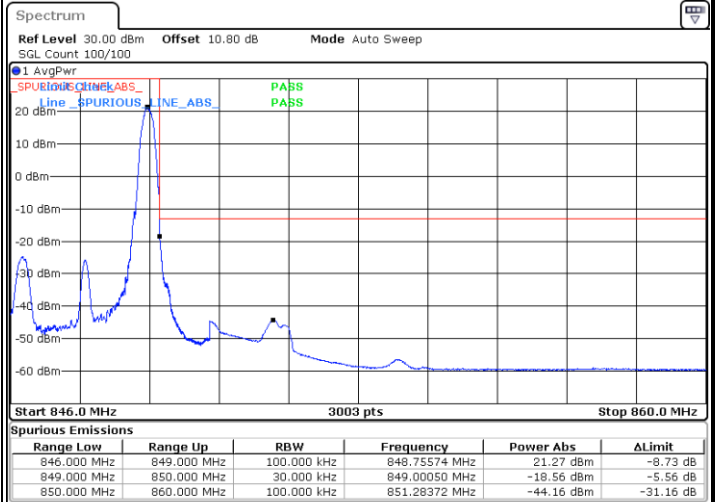
LTE Band 5 / 3MHz / QPSK

Lowest Band Edge / 1RB



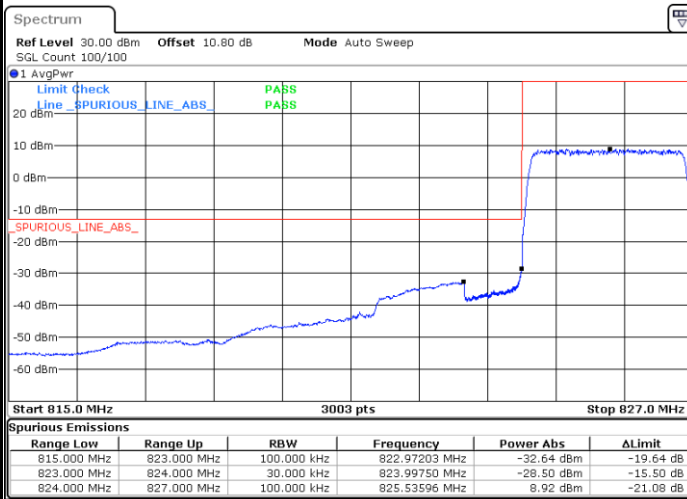
Date: 5.OCT.2019 00:51:07

Highest Band Edge / 1 RB



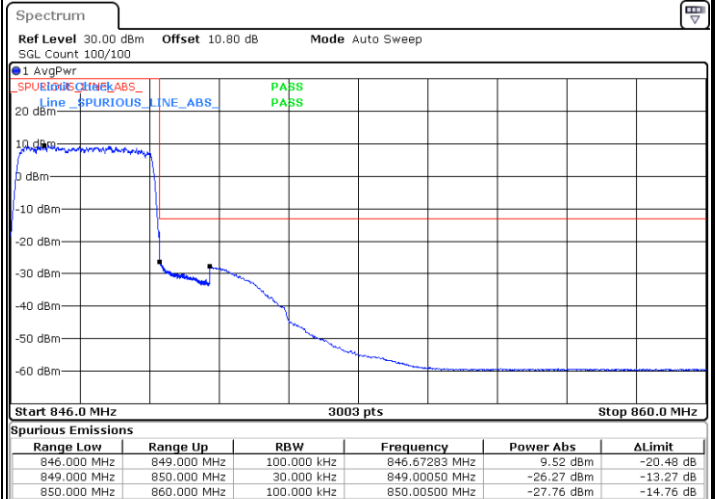
Date: 5.OCT.2019 01:02:06

Lowest Band Edge / Full RB



Date: 5.OCT.2019 00:54:29

Highest Band Edge / Full RB



Date: 5.OCT.2019 01:05:28