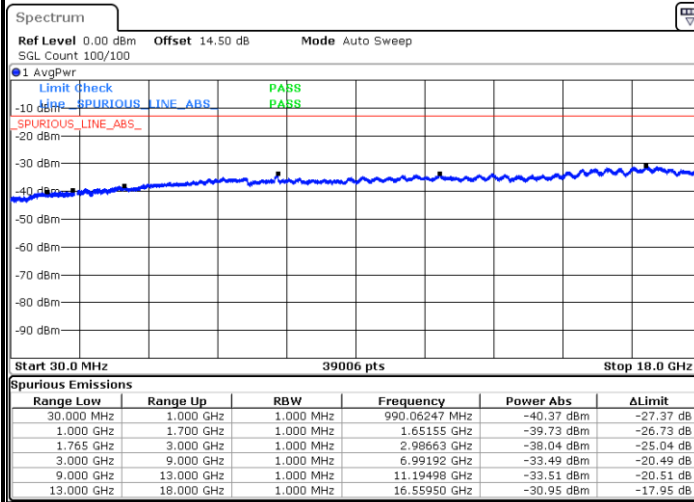




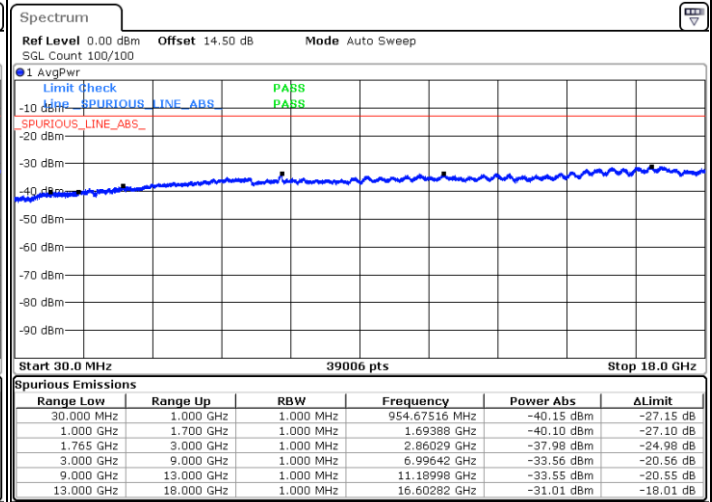
LTE Band 4 / 20MHz

Middle Channel / QPSK



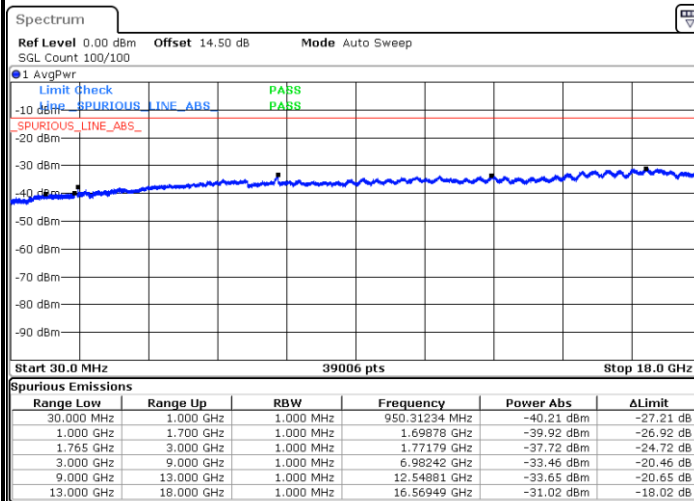
Date: 27.AUG.2019 01:11:24

Middle Channel / 16QAM



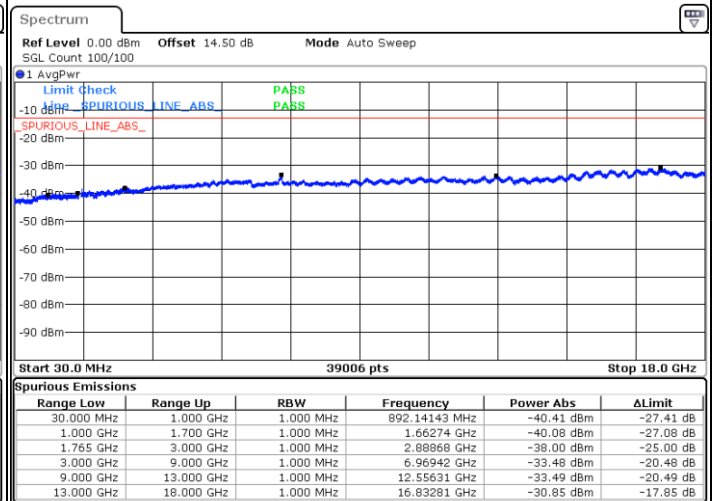
Date: 27.AUG.2019 01:12:18

Highest Channel / QPSK



Date: 27.AUG.2019 01:30:34

Highest Channel / 16QAM



Date: 27.AUG.2019 01:31:29

**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	0.0015	PASS
40	Normal Voltage	0.0017	
30	Normal Voltage	0.0007	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0017	
0	Normal Voltage	0.0013	
-10	Normal Voltage	0.0019	
-20	Normal Voltage	0.0009	
-30	Normal Voltage	0.0007	
20	Maximum Voltage	0.0006	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0012	

Note:

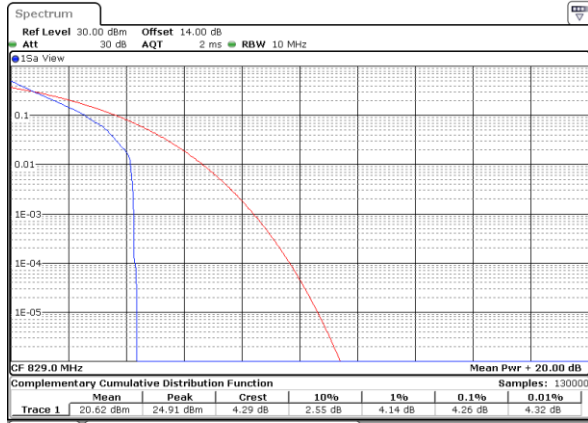
1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.3 V. ; Maximum Voltage =4.35 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



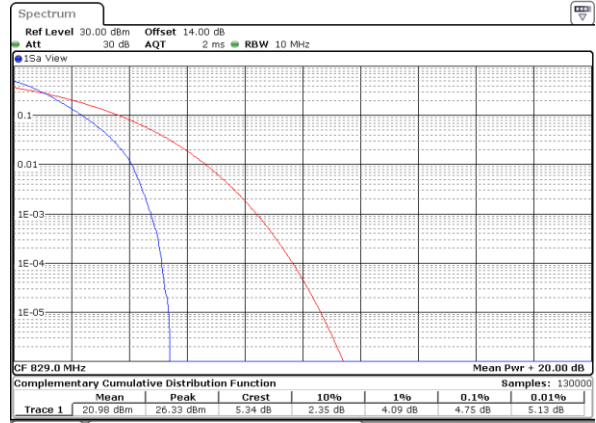
LTE Band 5

Peak-to-Average Ratio

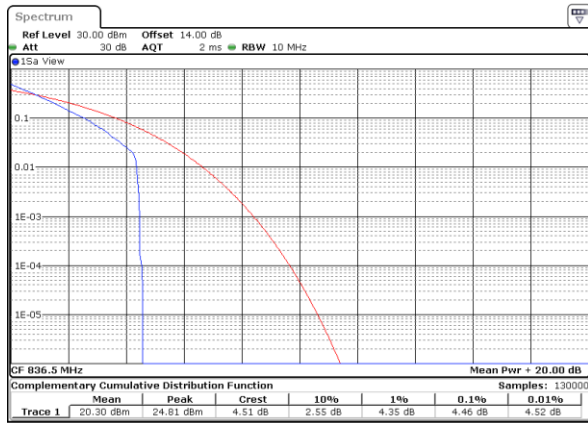
Mode	LTE Band 5 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.26	4.75	5.10	5.68	PASS
Middle CH	4.46	4.99	5.16	5.77	
Highest CH	4.55	4.72	5.16	5.65	

LTE Band 5 / 10MHz / QPSK
Lowest Channel / 1RB


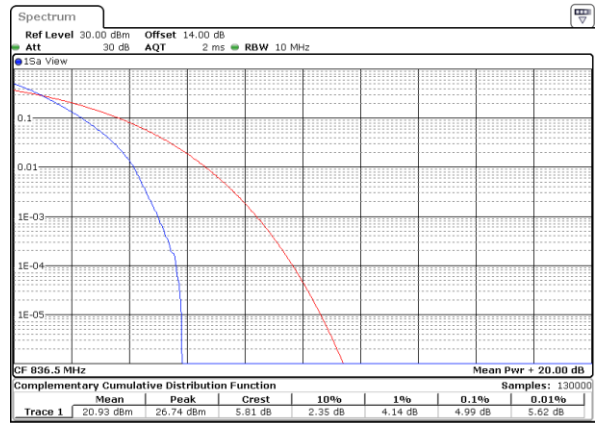
Date: 26 AUG 2019 23:03:23

Lowest Channel / Full RB


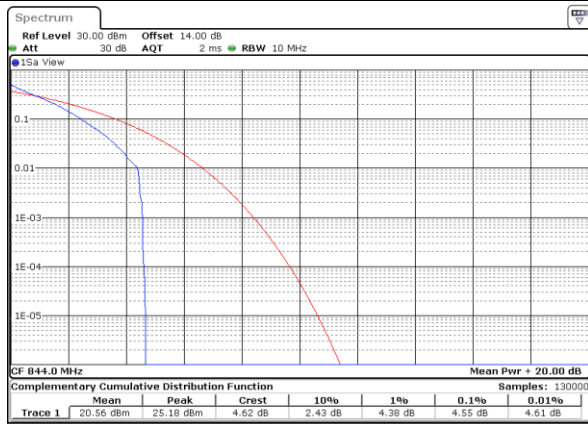
Date: 26 AUG 2019 23:04:54

Middle Channel / 1RB


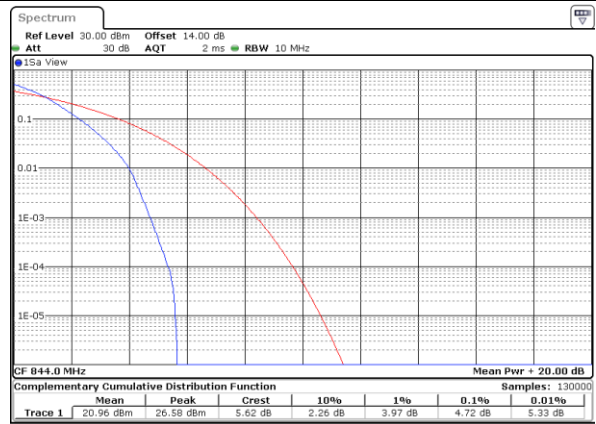
Date: 26 AUG 2019 23:04:14

Middle Channel / Full RB


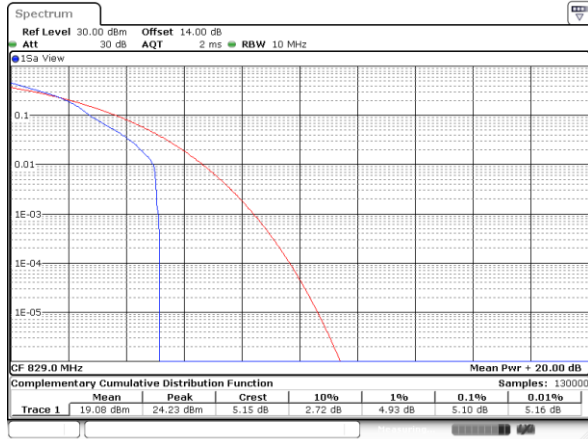
Date: 26 AUG 2019 23:04:44

Highest Channel / 1RB


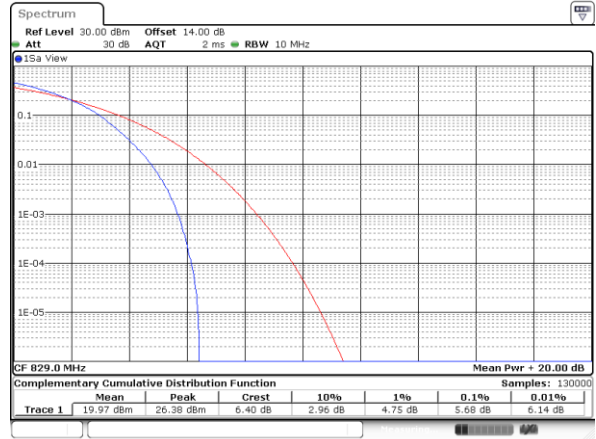
Date: 26 AUG 2019 23:04:23

Highest Channel / Full RB


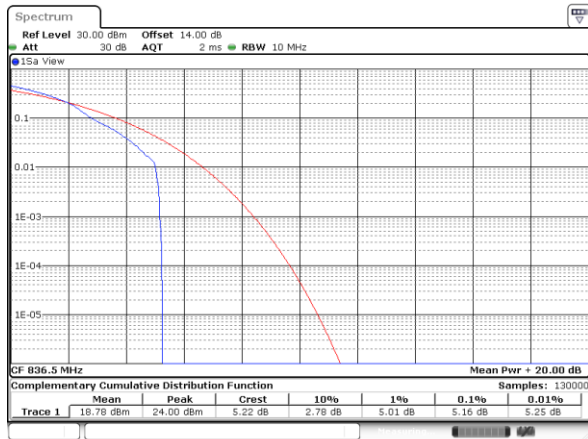
Date: 26 AUG 2019 23:04:33

LTE Band 5 / 10MHz / 16QAM
Lowest Channel / 1RB


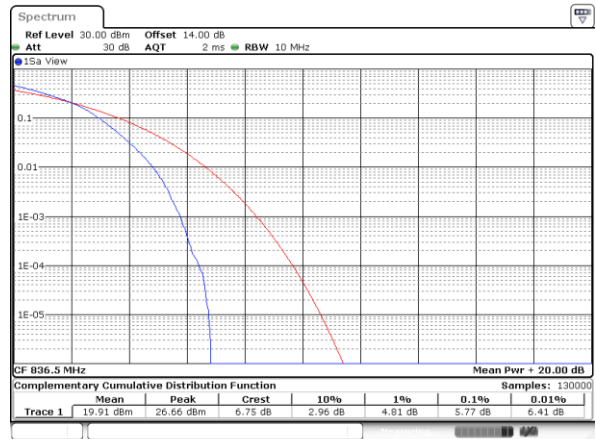
Date: 26 AUG 2019 23:02:28

Lowest Channel / Full RB


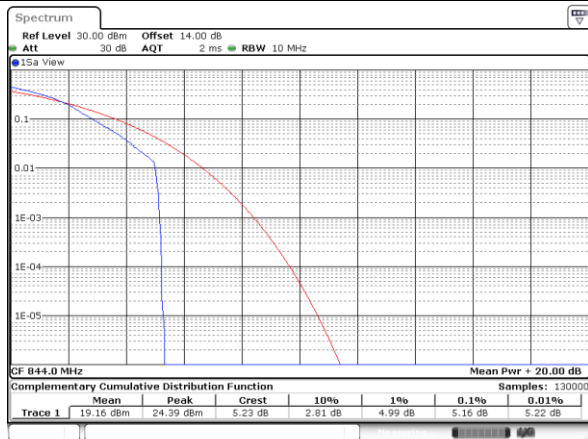
Date: 26 AUG 2019 23:02:36

Middle Channel / 1RB


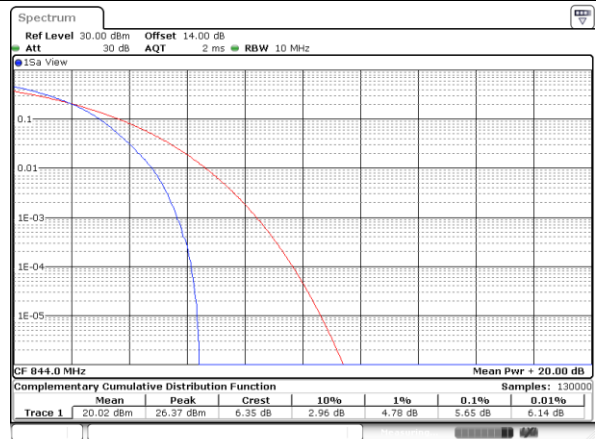
Date: 26 AUG 2019 23:02:45

Middle Channel / Full RB


Date: 26 AUG 2019 23:02:54

Highest Channel / 1RB


Date: 26 AUG 2019 23:03:03

Highest Channel / Full RB


Date: 26 AUG 2019 23:03:13

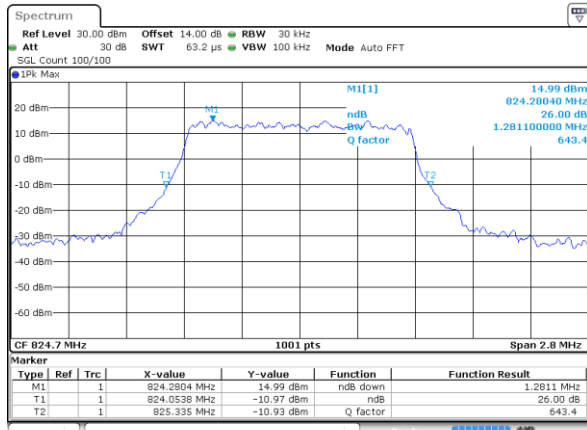
**26dB Bandwidth**

Mode	LTE Band 5 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.281	1.276	3.021	3.003	4.885	4.905	9.79	9.79				
Middle CH	1.259	1.278	3.027	3.033	4.895	4.985	9.89	9.85				
Highest CH	1.273	1.287	2.973	2.979	4.955	4.945	9.93	9.95				



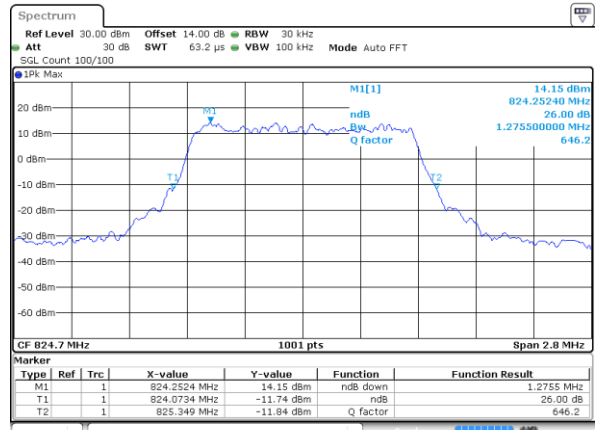
LTE Band 5

Lowest Channel / 1.4MHz / QPSK



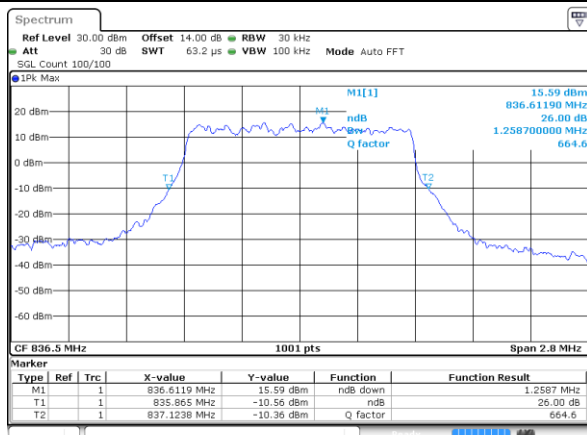
Date: 26 AUG 2019 21:26:53

Lowest Channel / 1.4MHz / 16QAM



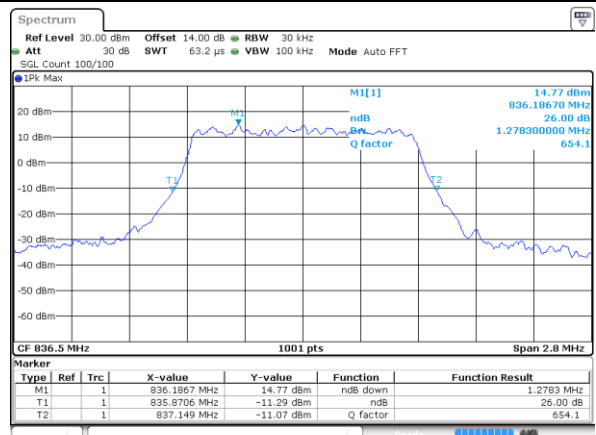
Date: 26 AUG 2019 21:26:44

Middle Channel / 1.4MHz / QPSK



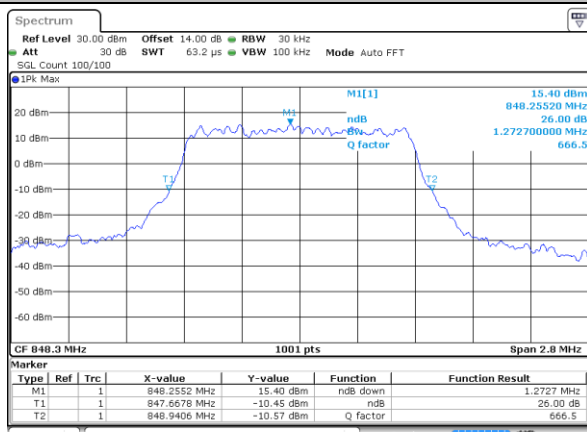
Date: 26 AUG 2019 21:41:20

Middle Channel / 1.4MHz / 16QAM



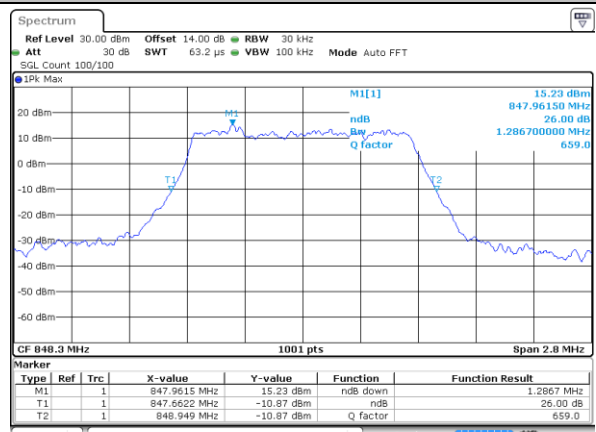
Date: 26 AUG 2019 21:41:29

Highest Channel / 1.4MHz / QPSK



Date: 26 AUG 2019 21:43:45

Highest Channel / 1.4MHz / 16QAM

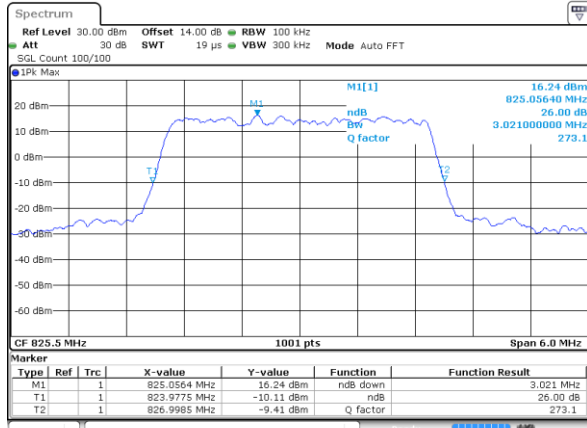


Date: 26 AUG 2019 21:43:55

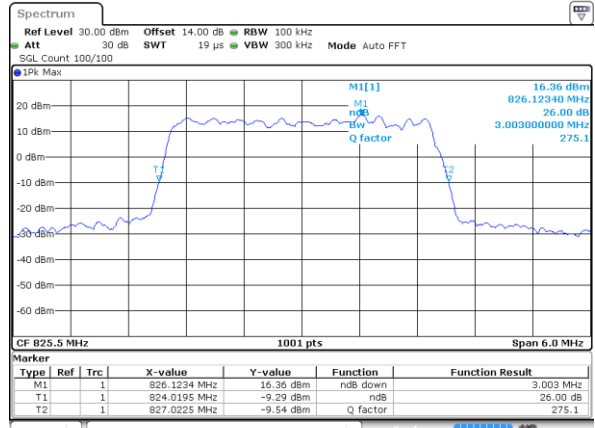


LTE Band 5

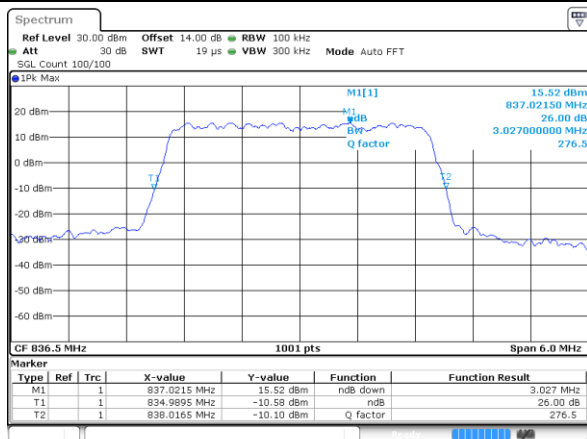
Lowest Channel / 3MHz / QPSK



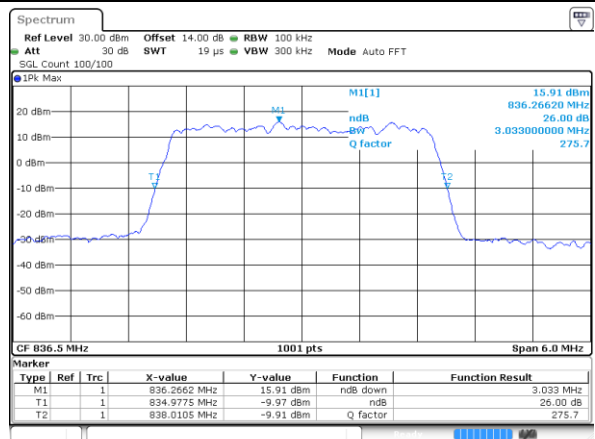
Lowest Channel / 3MHz / 16QAM



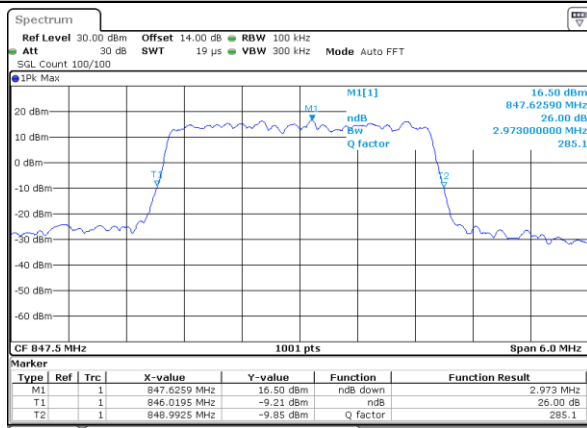
Middle Channel / 3MHz / QPSK



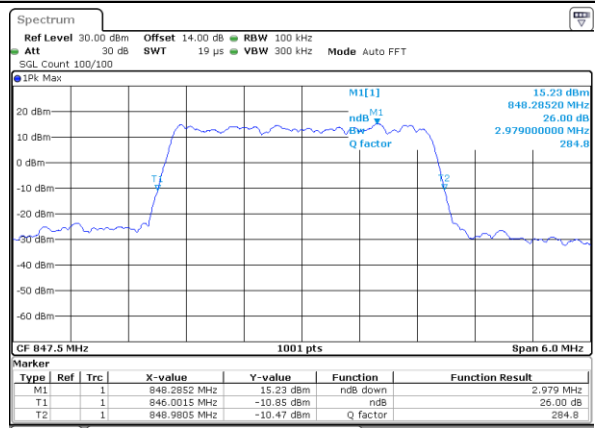
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK



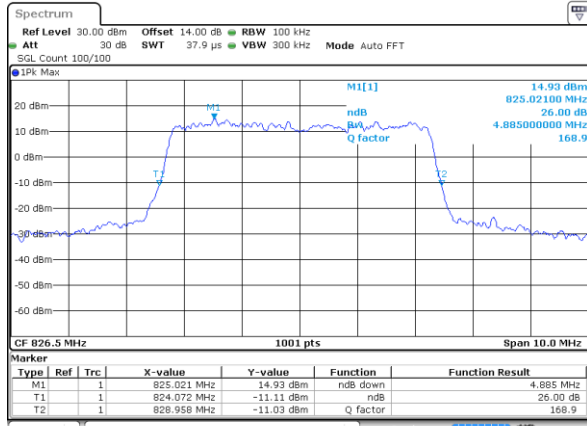
Highest Channel / 3MHz / 16QAM





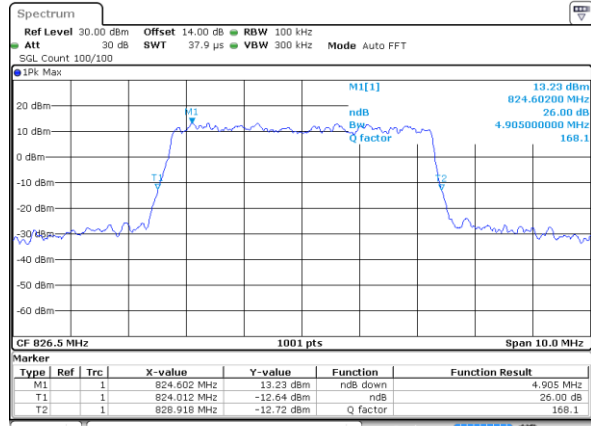
LTE Band 5

Lowest Channel / 5MHz / QPSK



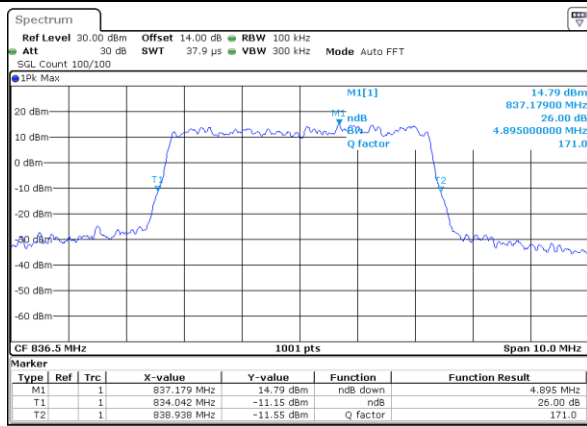
Date: 26 AUG 2019 22:12:59

Lowest Channel / 5MHz / 16QAM



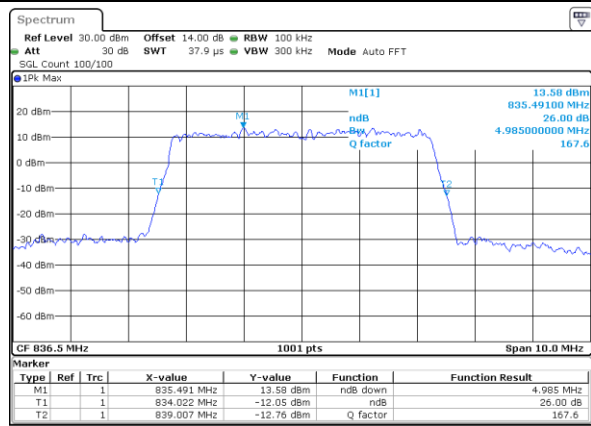
Date: 26 AUG 2019 22:13:09

Middle Channel / 5MHz / QPSK



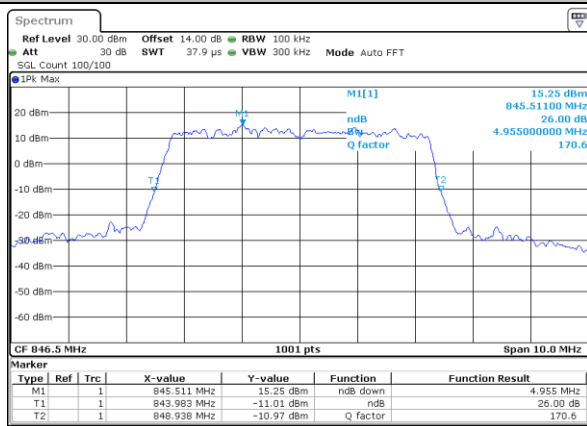
Date: 26 AUG 2019 22:21:55

Middle Channel / 5MHz / 16QAM



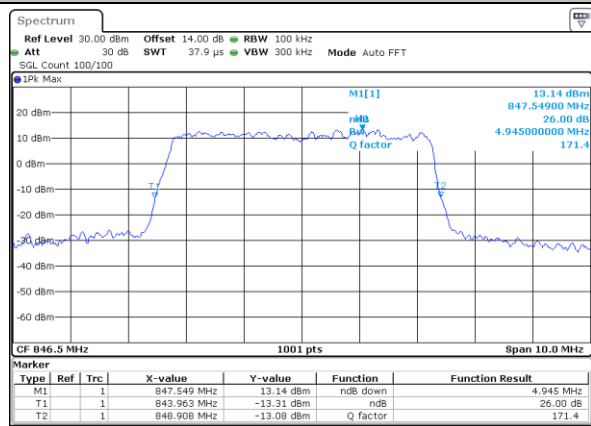
Date: 26 AUG 2019 22:22:05

Highest Channel / 5MHz / QPSK



Date: 26 AUG 2019 22:24:21

Highest Channel / 5MHz / 16QAM

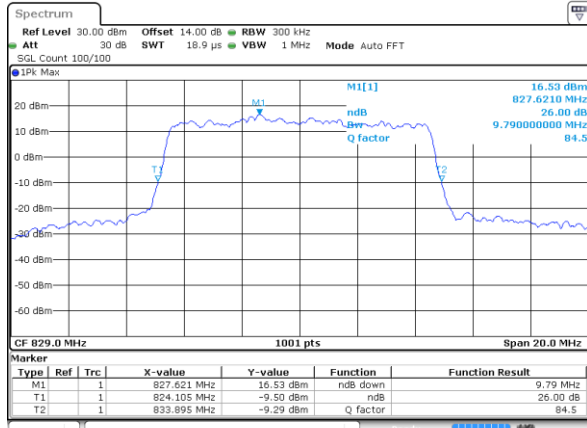


Date: 26 AUG 2019 22:24:31



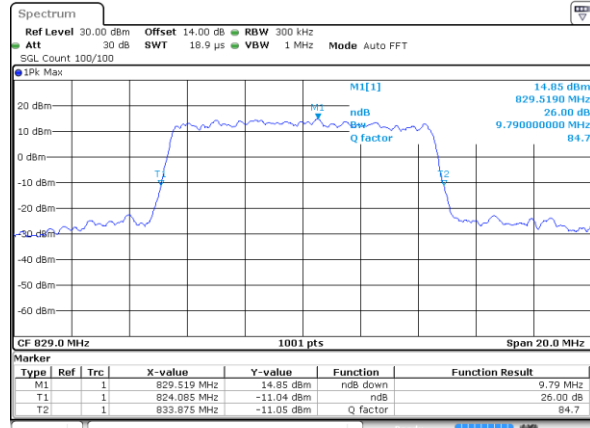
LTE Band 5

Lowest Channel / 10MHz / QPSK



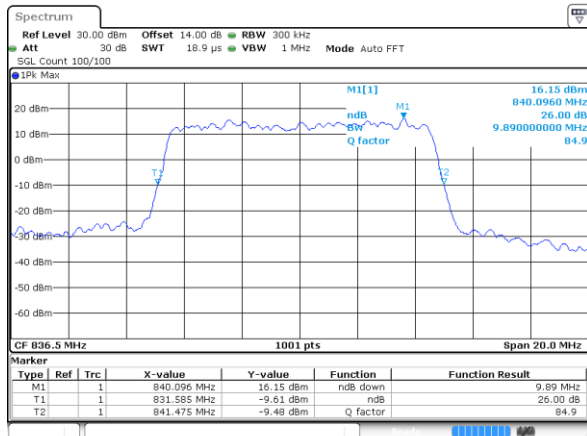
Date: 26 AUG 2019 22:33:17

Lowest Channel / 10MHz / 16QAM



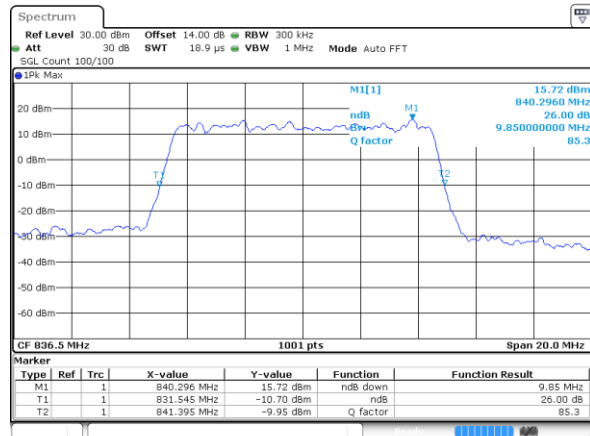
Date: 26 AUG 2019 22:33:27

Middle Channel / 10MHz / QPSK



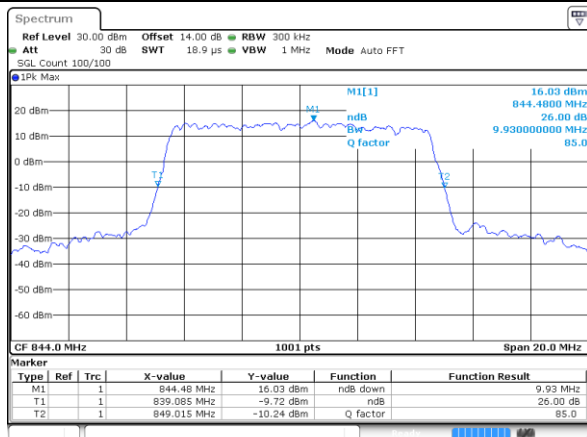
Date: 26 AUG 2019 22:42:14

Middle Channel / 10MHz / 16QAM



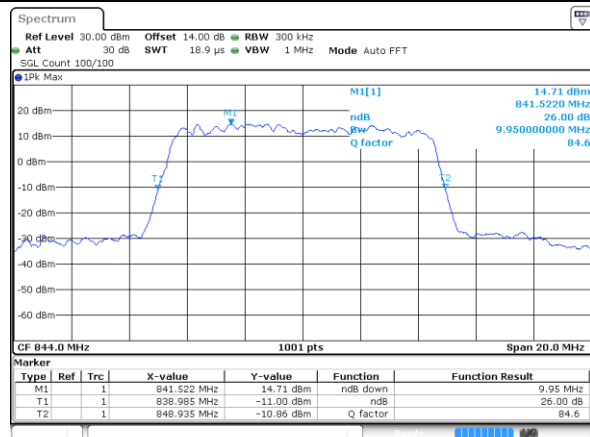
Date: 26 AUG 2019 22:42:23

Highest Channel / 10MHz / QPSK



Date: 26 AUG 2019 22:44:39

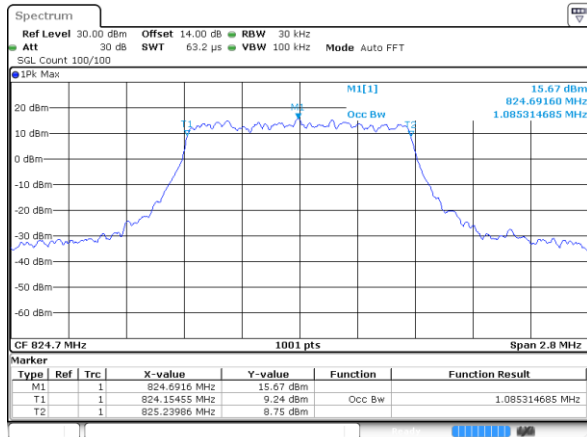
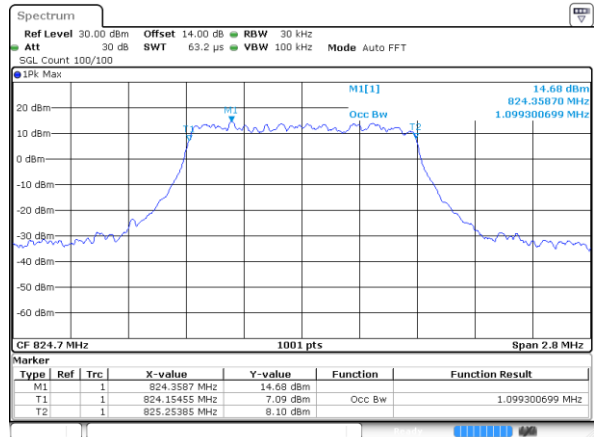
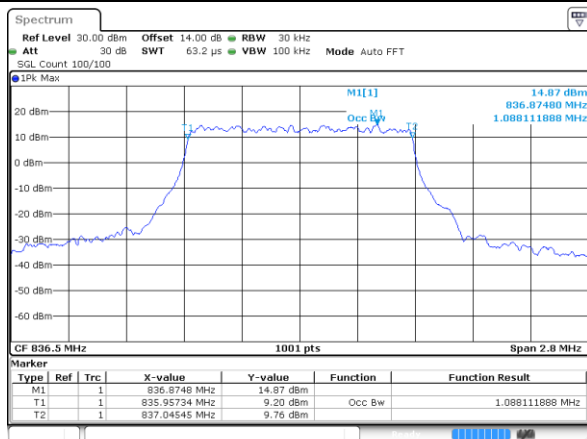
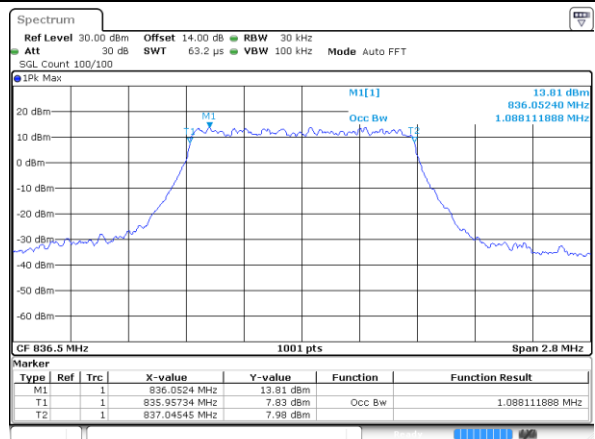
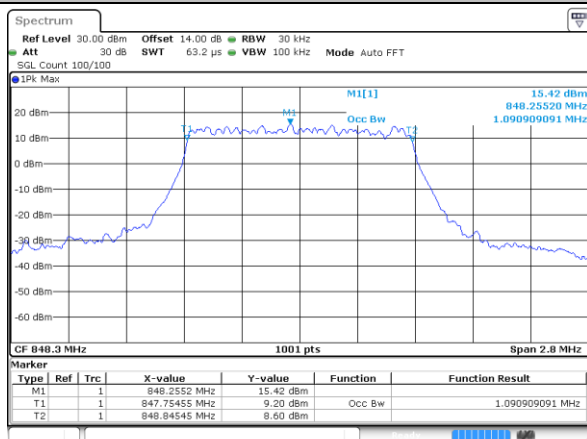
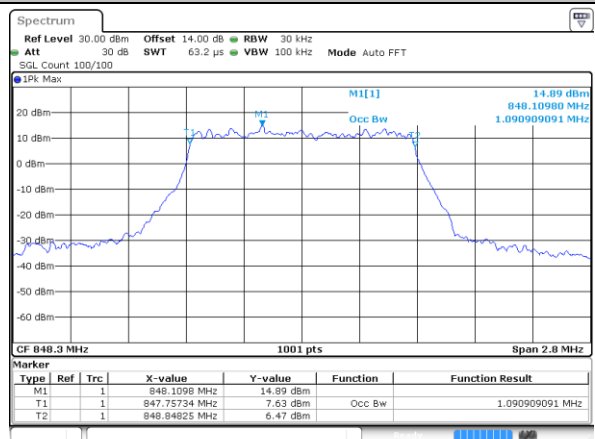
Highest Channel / 10MHz / 16QAM



Date: 26 AUG 2019 22:44:48

**Occupied Bandwidth**

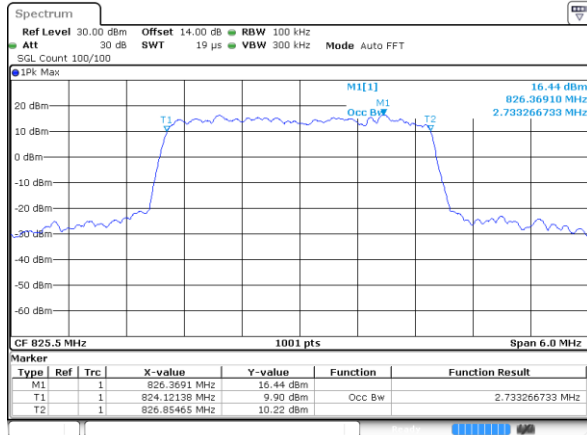
Mode	LTE Band 5 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.09	1.1	2.73	2.73	4.53	4.5	9.05	8.97				
Middle CH	1.09	1.09	2.72	2.73	4.49	4.51	9.07	9.01				
Highest CH	1.09	1.09	2.72	2.72	4.49	4.49	9.01	8.95				

**LTE Band 5****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**



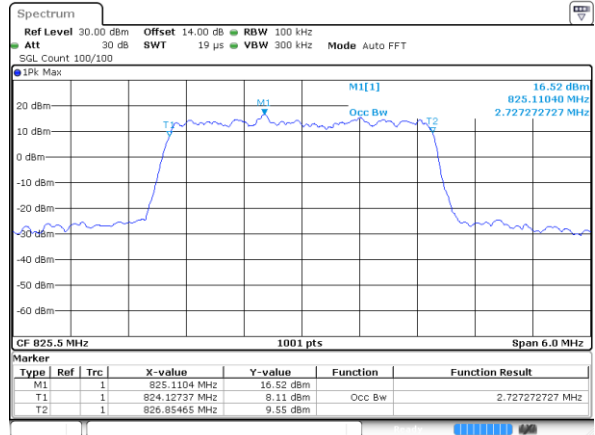
LTE Band 5

Lowest Channel / 3MHz / QPSK



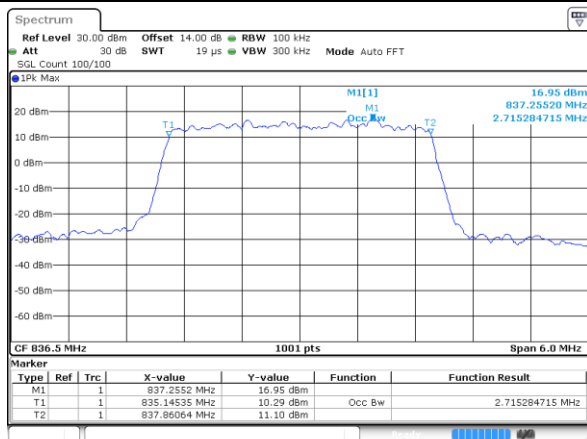
Date: 26 AUG 2019 21:52:22

Lowest Channel / 3MHz / 16QAM



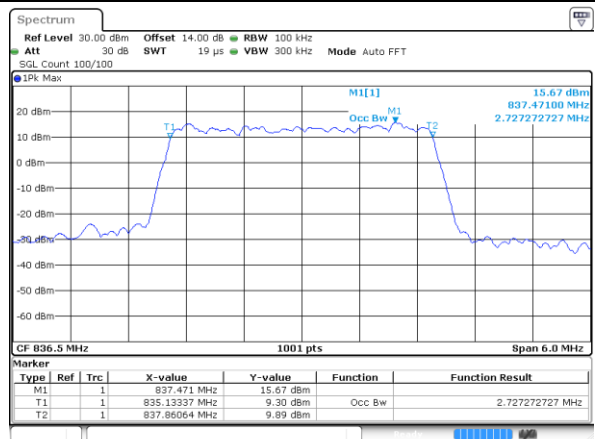
Date: 26 AUG 2019 21:52:31

Middle Channel / 3MHz / QPSK



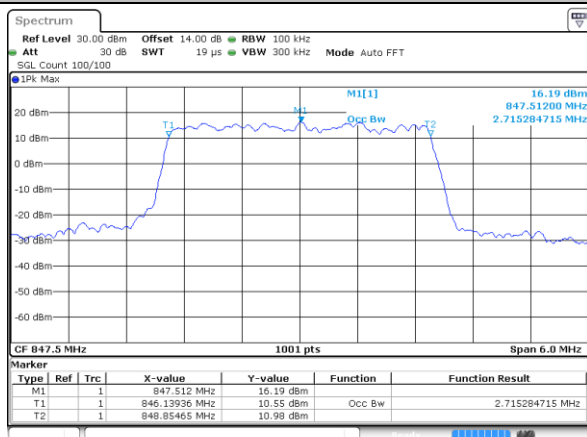
Date: 26 AUG 2019 22:01:18

Middle Channel / 3MHz / 16QAM



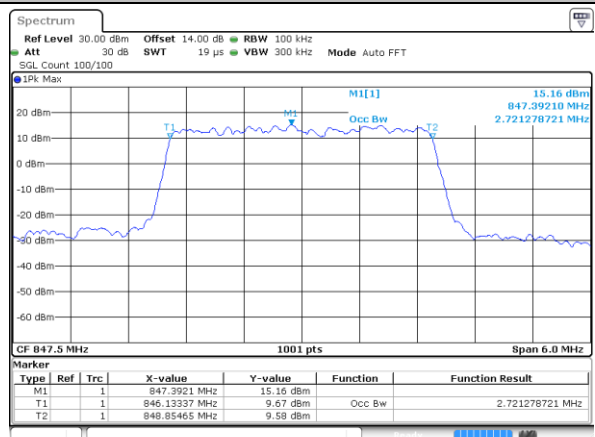
Date: 26 AUG 2019 22:01:28

Highest Channel / 3MHz / QPSK



Date: 26 AUG 2019 22:03:43

Highest Channel / 3MHz / 16QAM

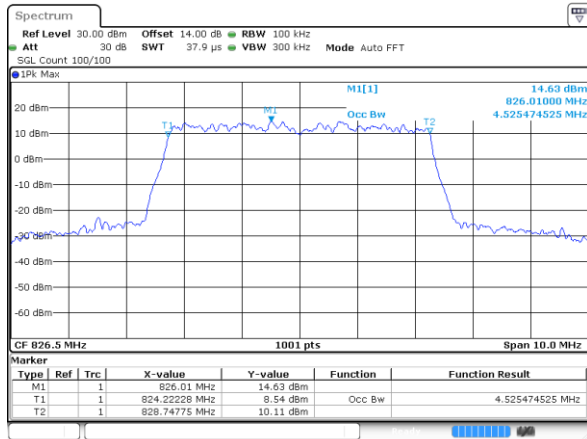


Date: 26 AUG 2019 22:03:53



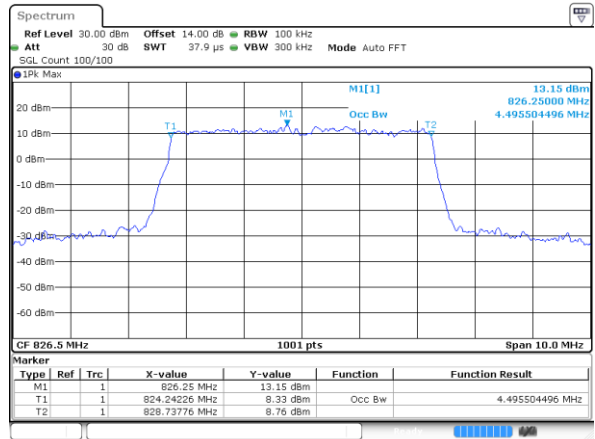
LTE Band 5

Lowest Channel / 5MHz / QPSK



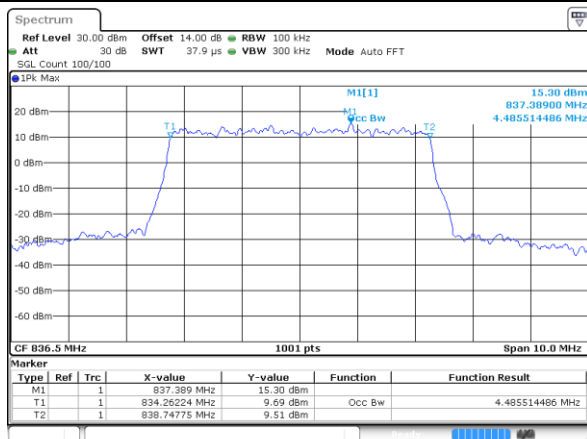
Date: 26 AUG 2019 22:12:39

Lowest Channel / 5MHz / 16QAM



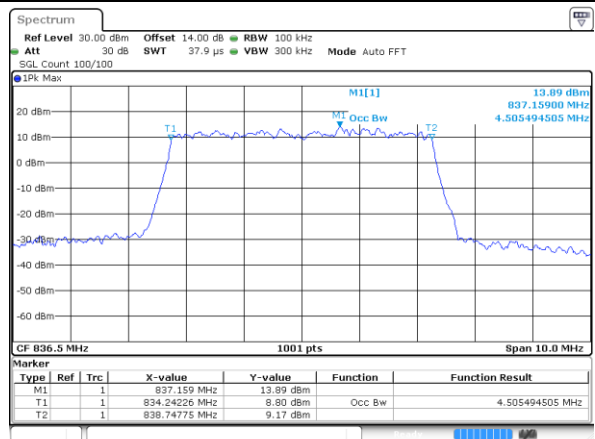
Date: 26 AUG 2019 22:12:49

Middle Channel / 5MHz / QPSK



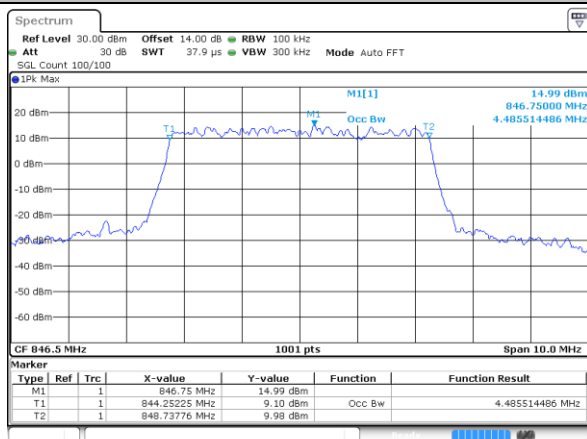
Date: 26 AUG 2019 22:21:36

Middle Channel / 5MHz / 16QAM



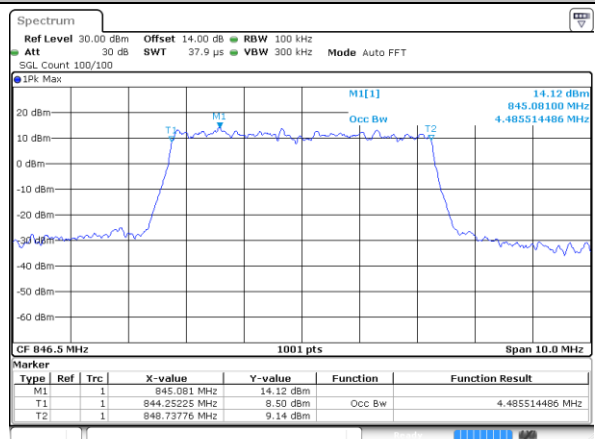
Date: 26 AUG 2019 22:21:46

Highest Channel / 5MHz / QPSK



Date: 26 AUG 2019 22:24:01

Highest Channel / 5MHz / 16QAM

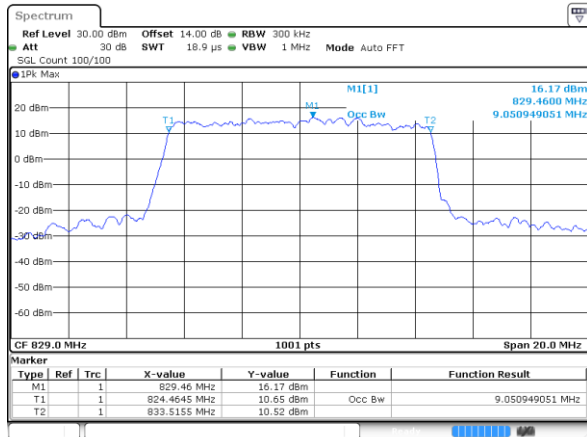


Date: 26 AUG 2019 22:24:11

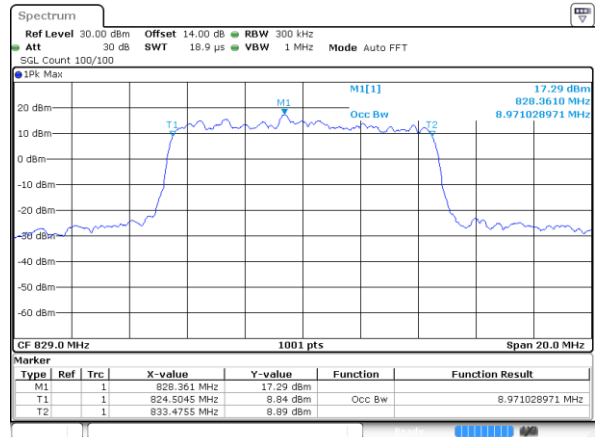


LTE Band 5

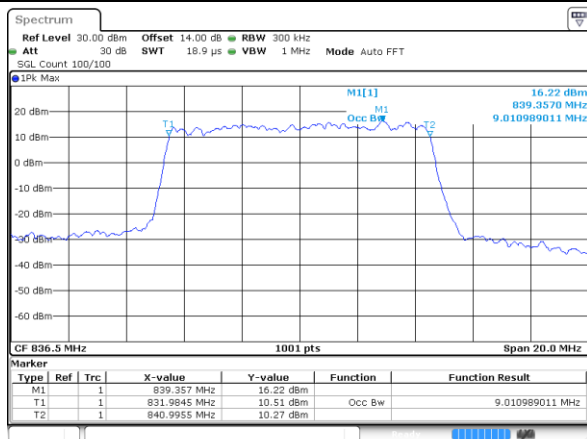
Lowest Channel / 10MHz / QPSK



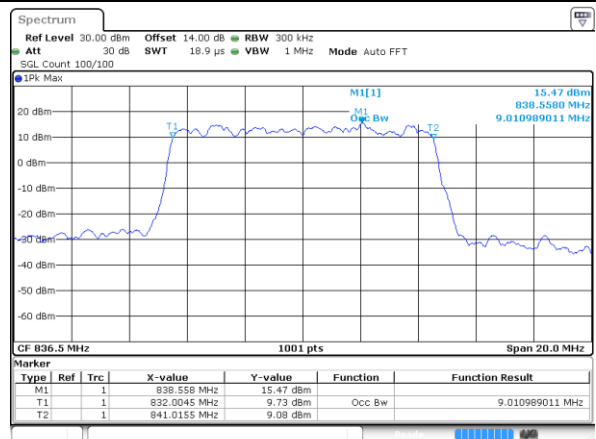
Lowest Channel / 10MHz / 16QAM



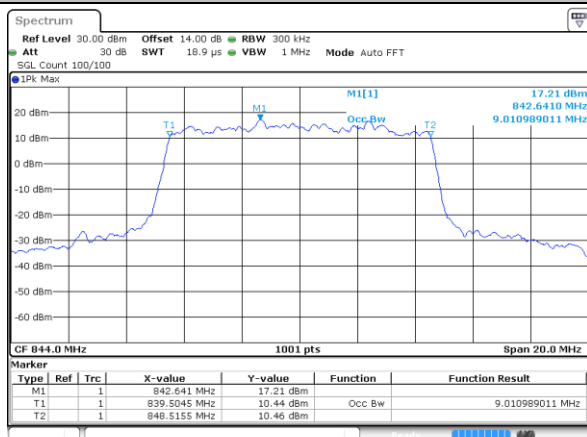
Middle Channel / 10MHz / QPSK



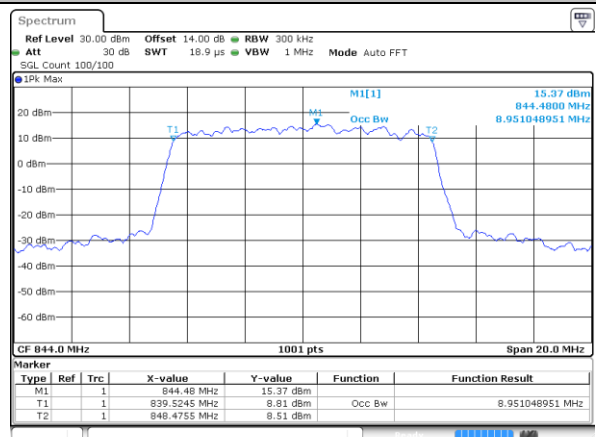
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



Highest Channel / 10MHz / 16QAM

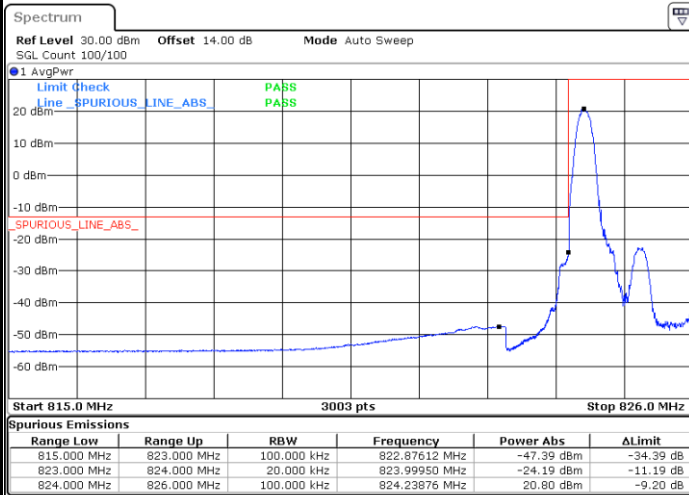




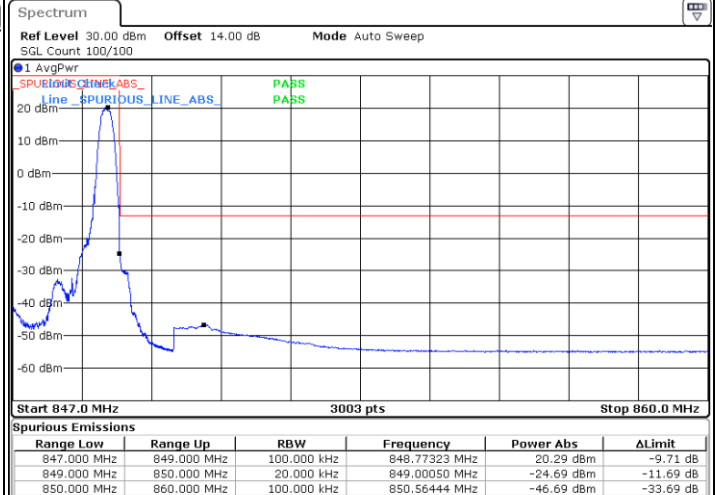
Conducted Band Edge

LTE Band 5 / 1.4MHz / QPSK

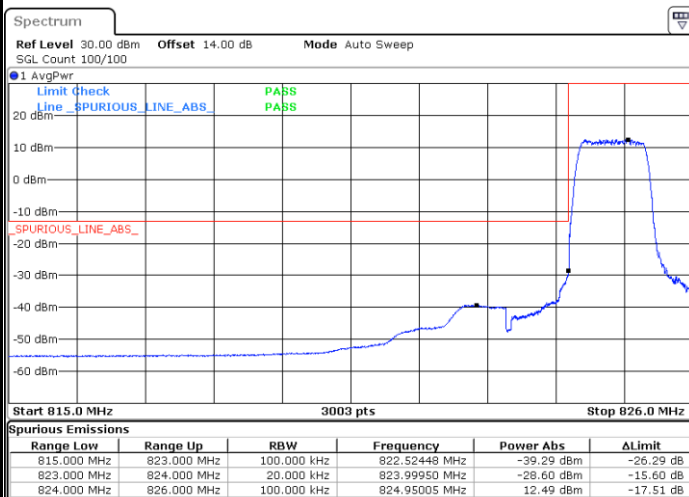
Lowest Band Edge / 1RB



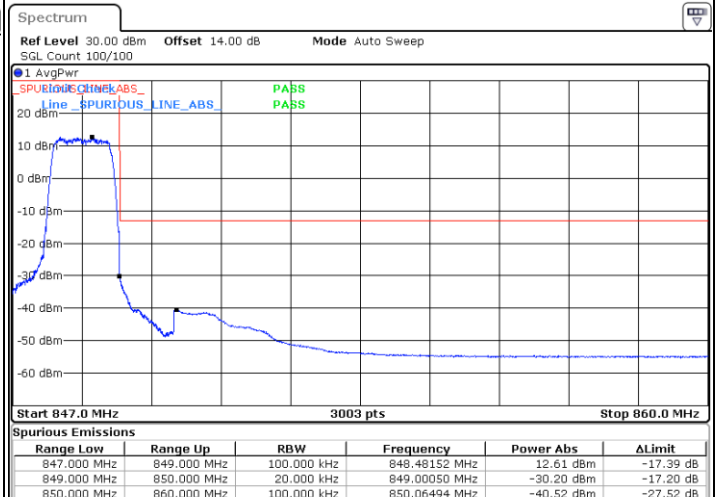
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



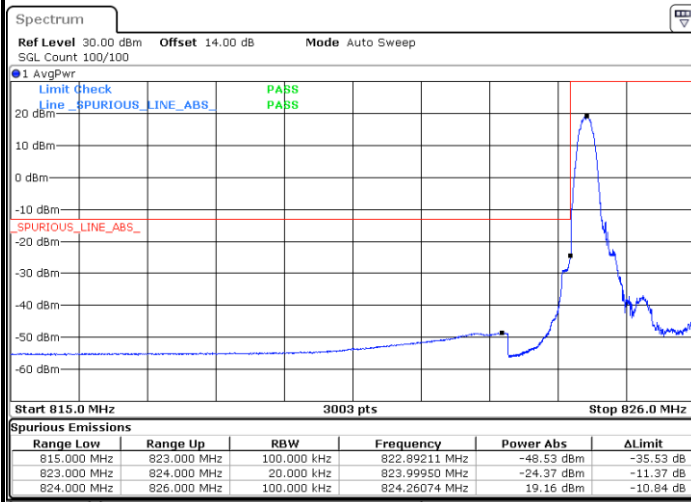
Highest Band Edge / Full RB



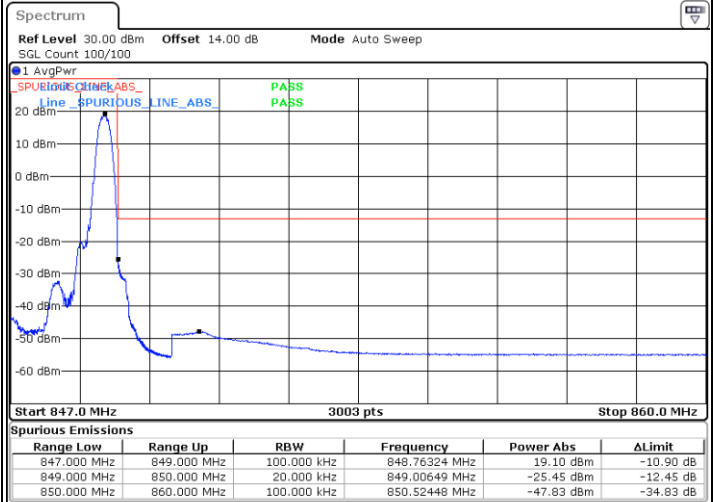


LTE Band 5 / 1.4MHz / 16QAM

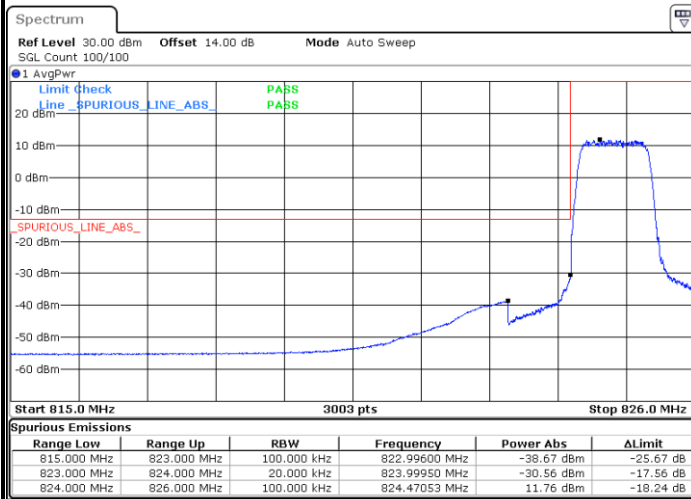
Lowest Band Edge / 1 RB



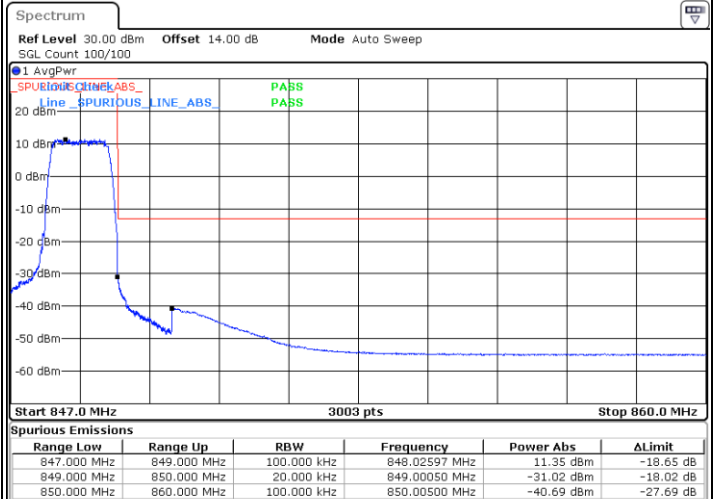
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



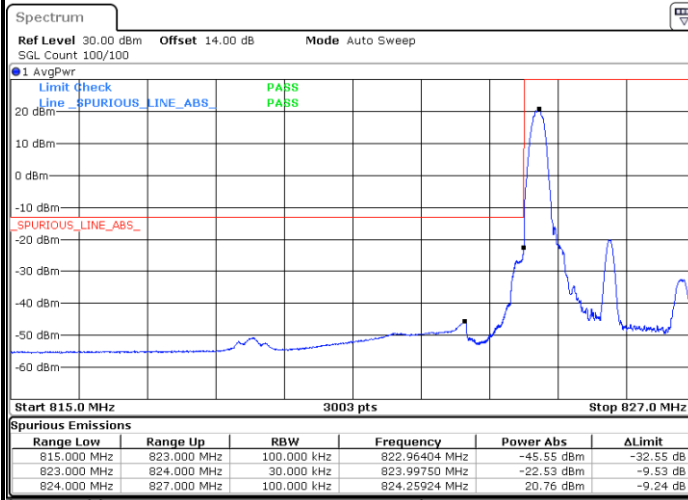
Highest Band Edge / Full RB



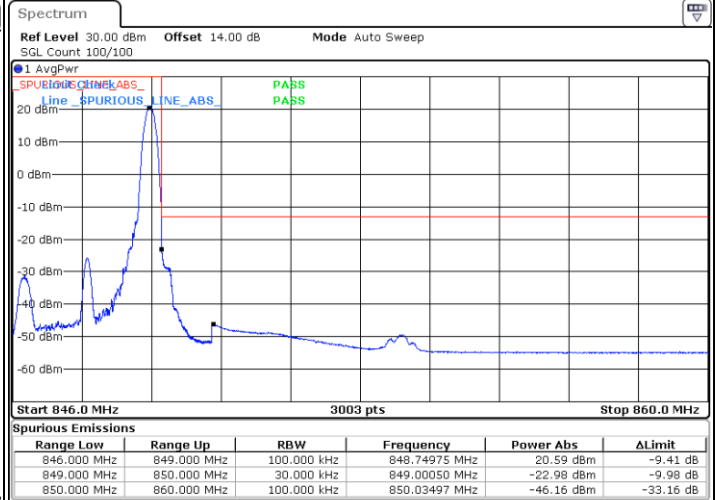


LTE Band 5 / 3MHz / QPSK

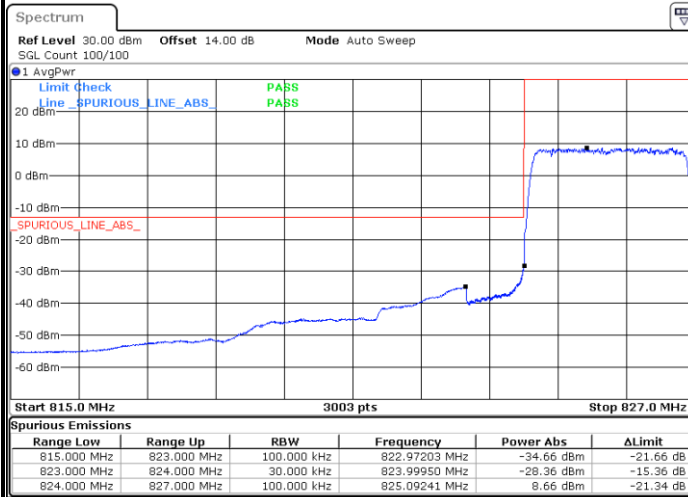
Lowest Band Edge / 1RB



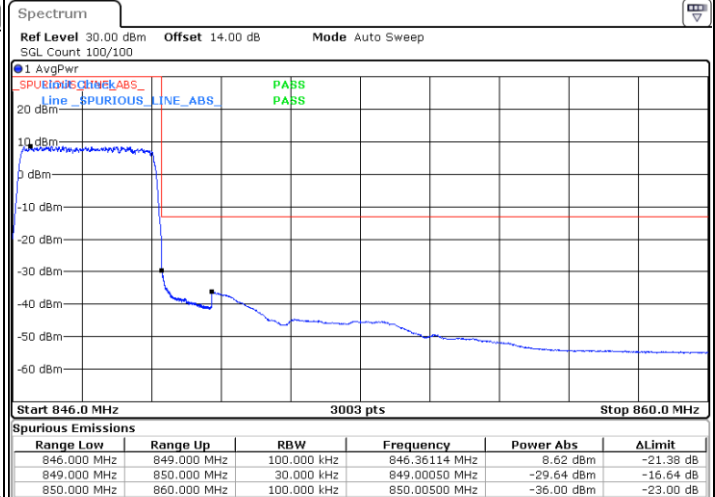
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



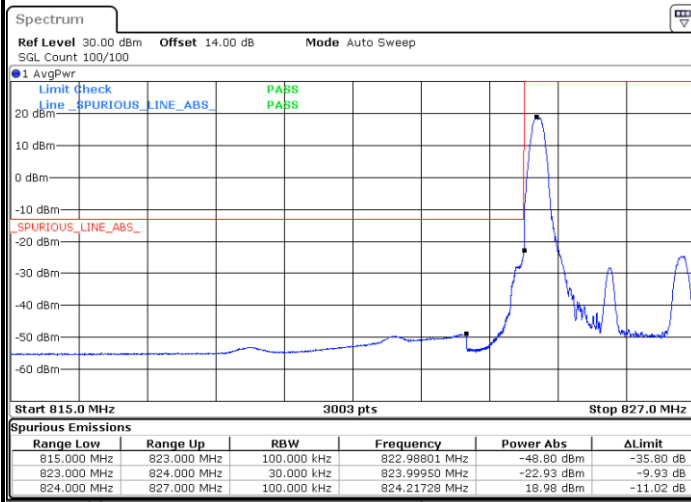
Highest Band Edge / Full RB



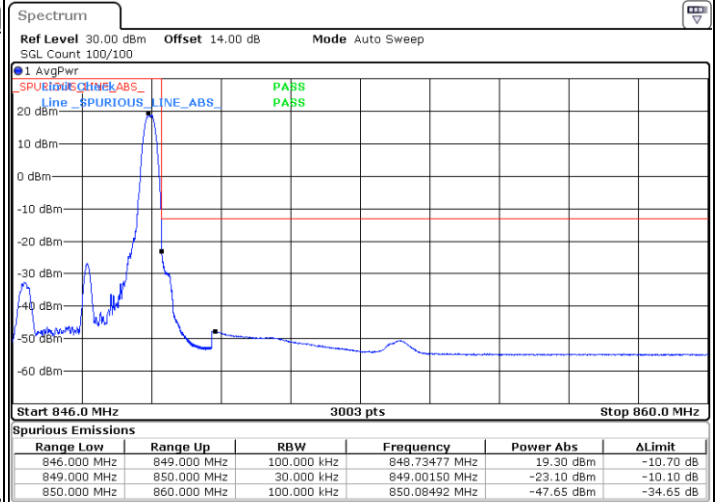


LTE Band 5 / 3MHz / 16QAM

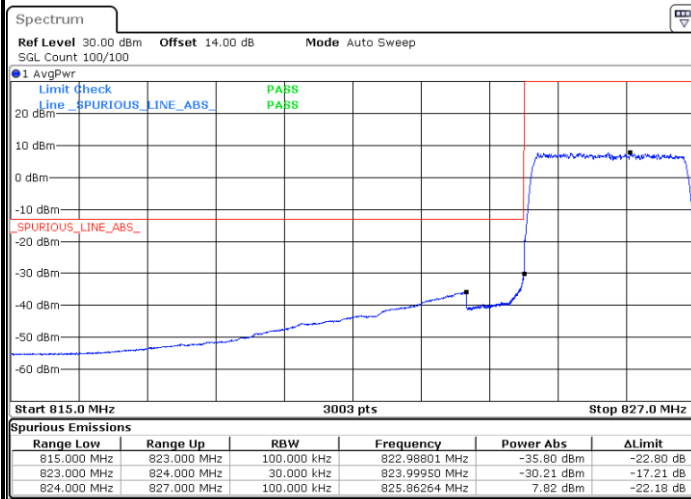
Lowest Band Edge / 1 RB



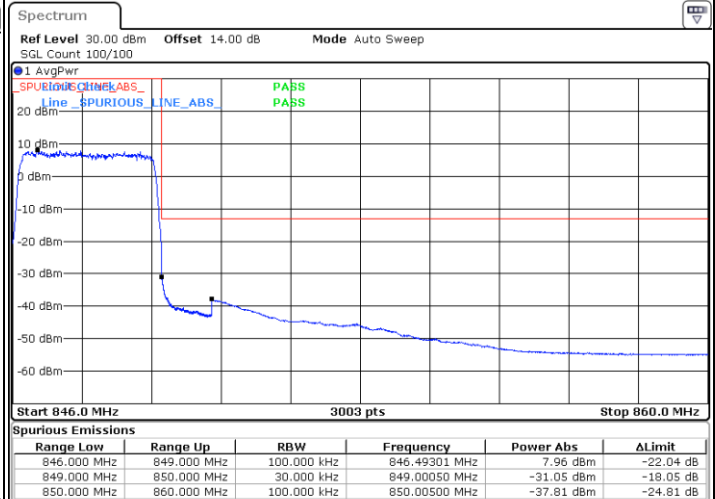
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



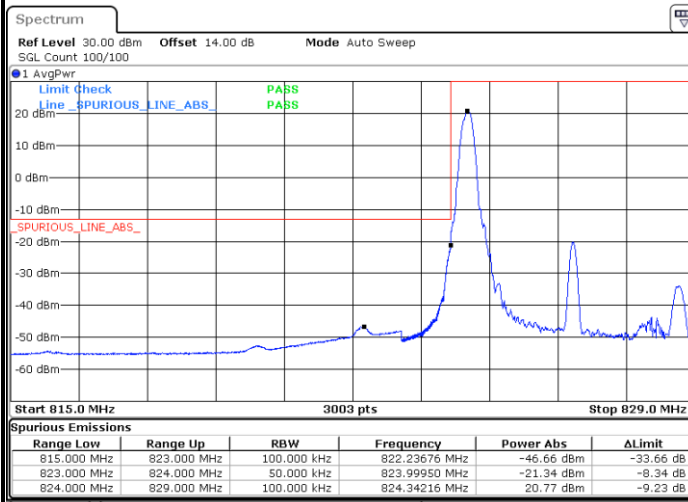
Highest Band Edge / Full RB



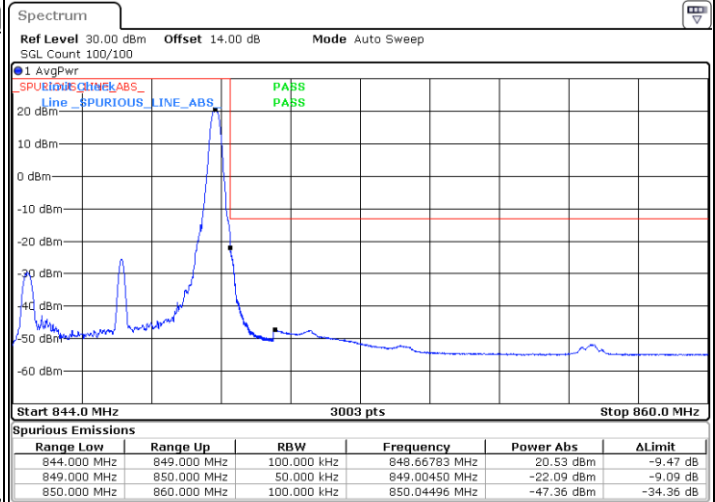


LTE Band 5 / 5MHz / QPSK

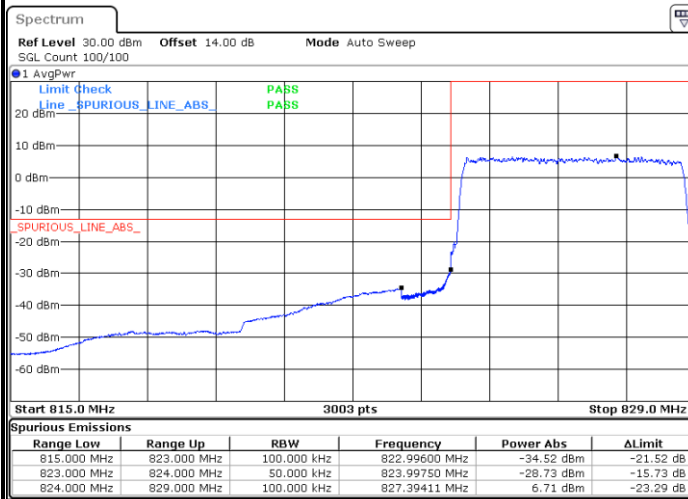
Lowest Band Edge / 1 RB



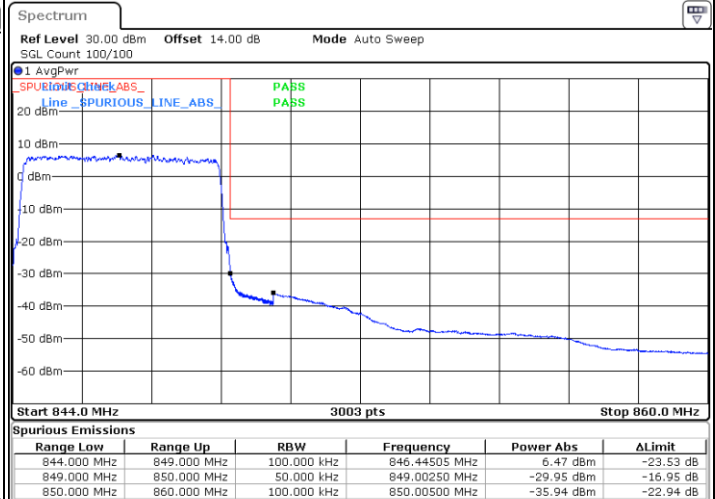
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



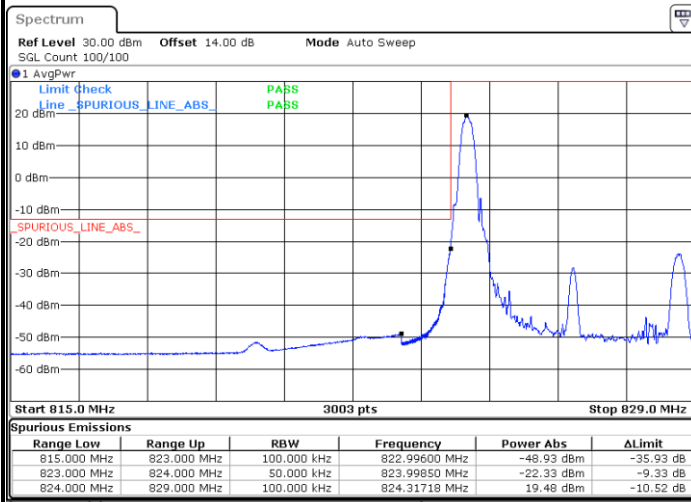
Highest Band Edge / Full RB



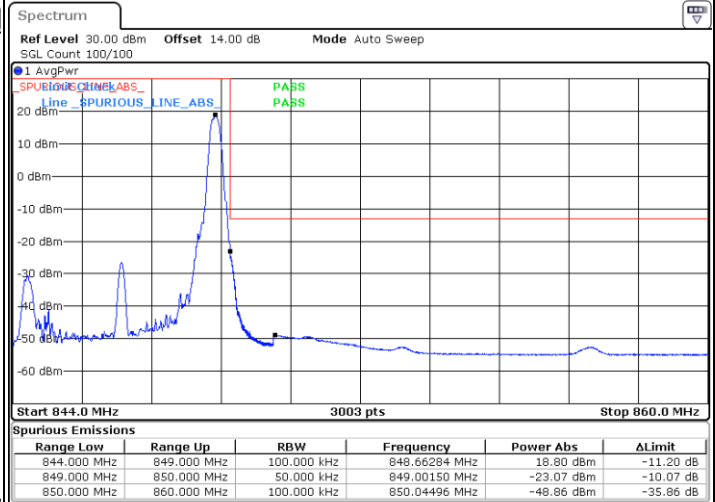


LTE Band 5 / 5MHz / 16QAM

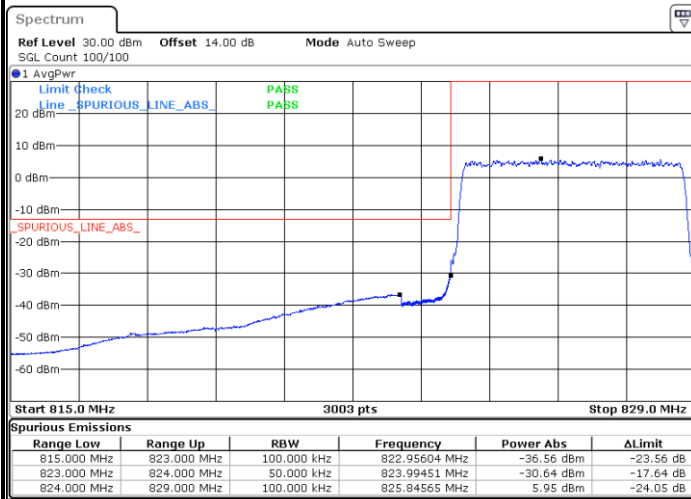
Lowest Band Edge / 1RB



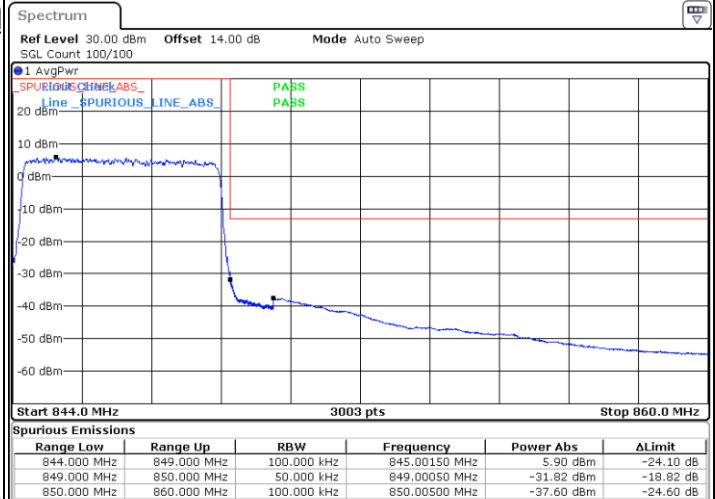
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



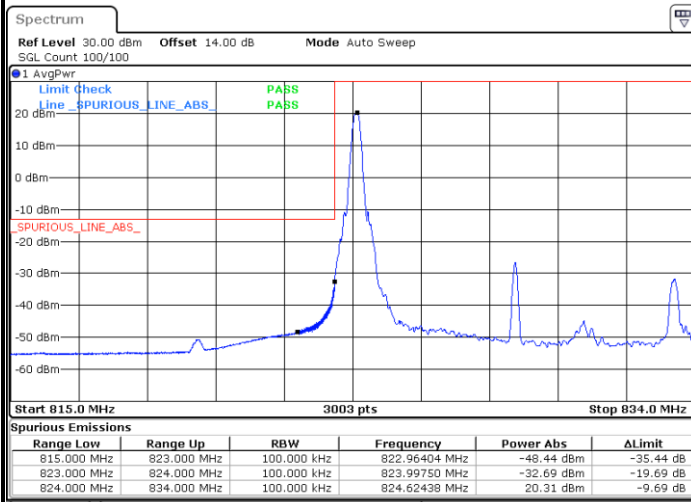
Highest Band Edge / Full RB



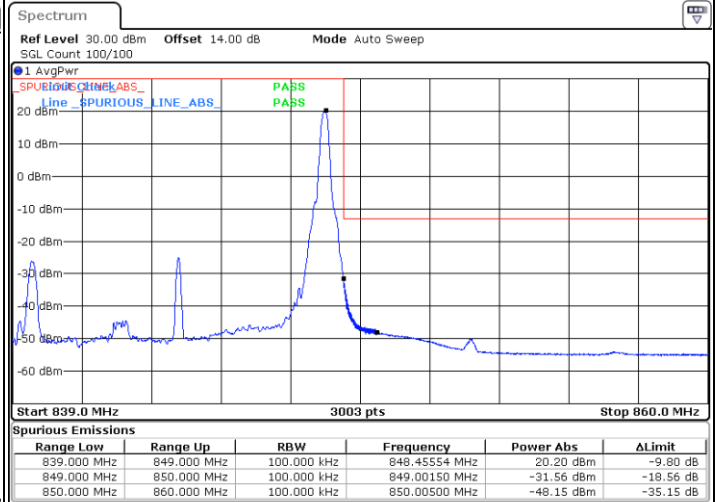


LTE Band 5 / 10MHz / QPSK

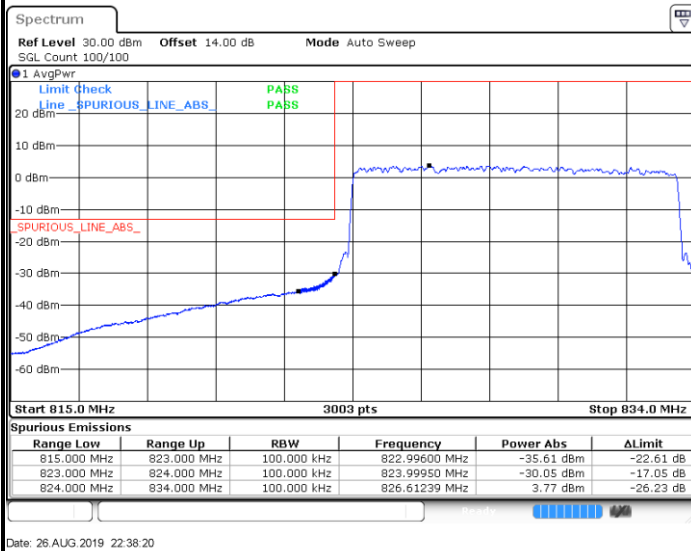
Lowest Band Edge / 1 RB



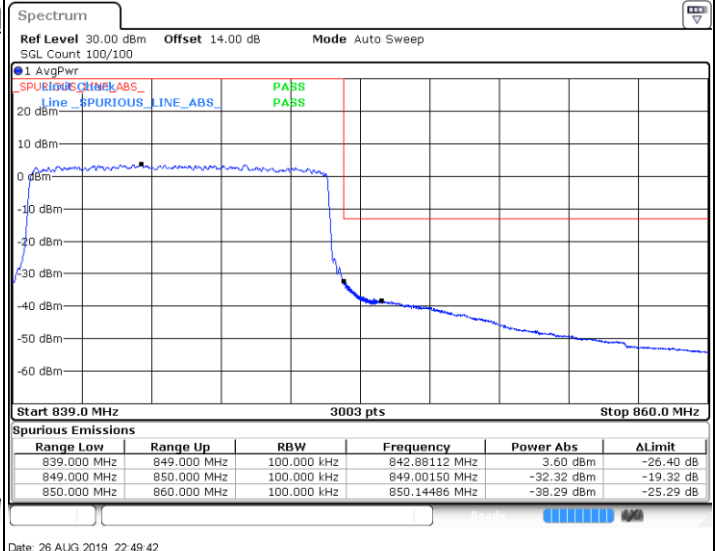
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



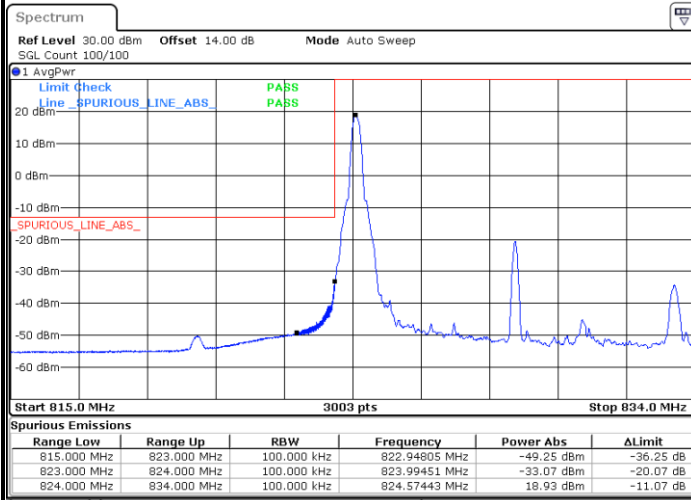
Highest Band Edge / Full RB



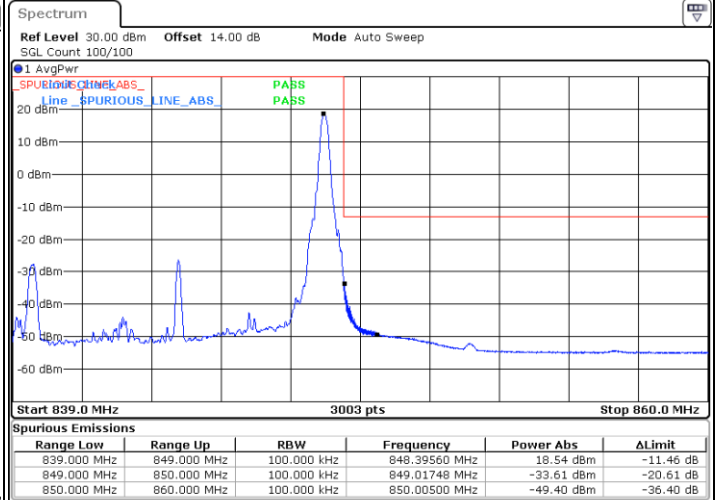


LTE Band 5 / 10MHz / 16QAM

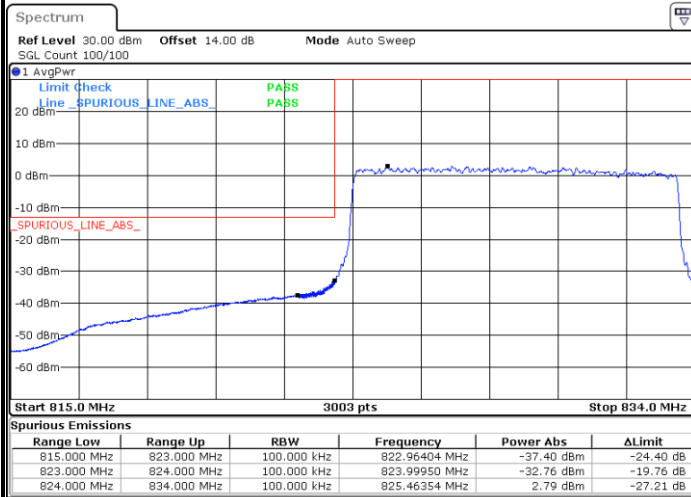
Lowest Band Edge / 1 RB



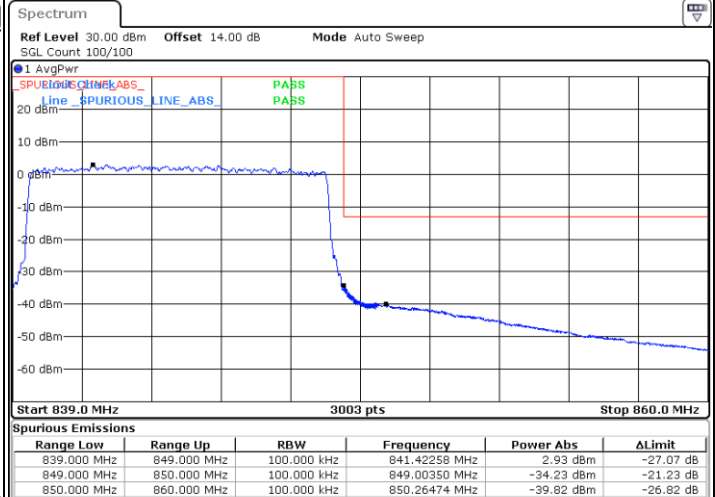
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

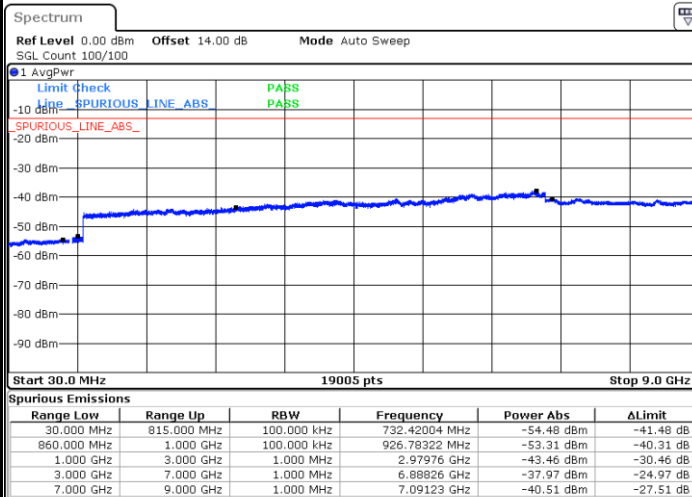




Conducted Spurious Emission

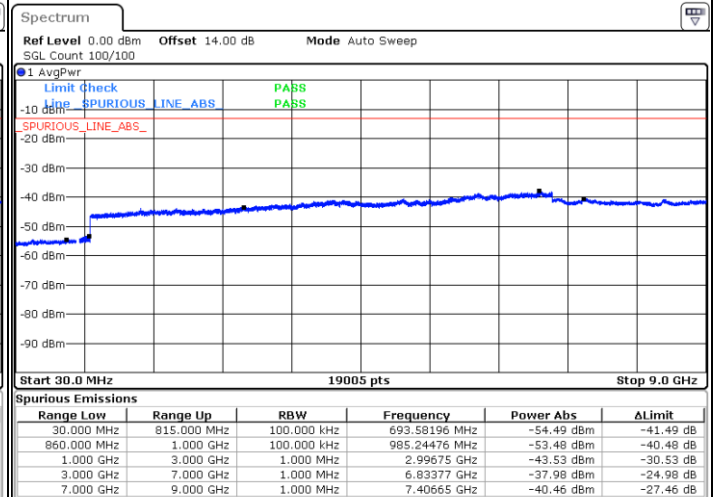
LTE Band 5 / 1.4MHz

Lowest Channel / QPSK



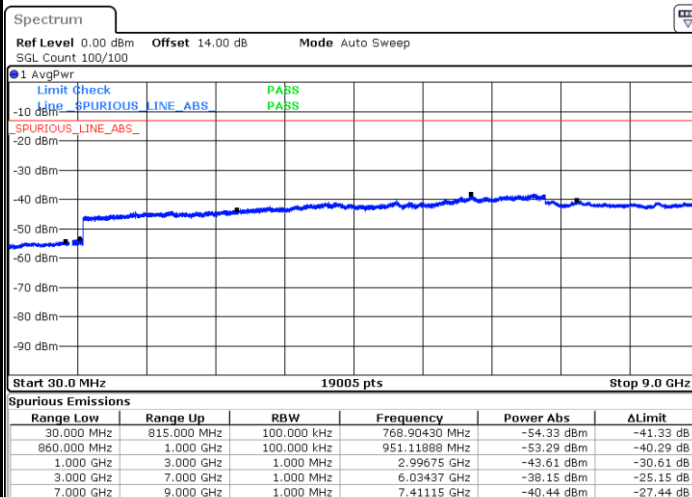
Date: 26 AUG 2019 21:34:18

Lowest Channel / 16QAM



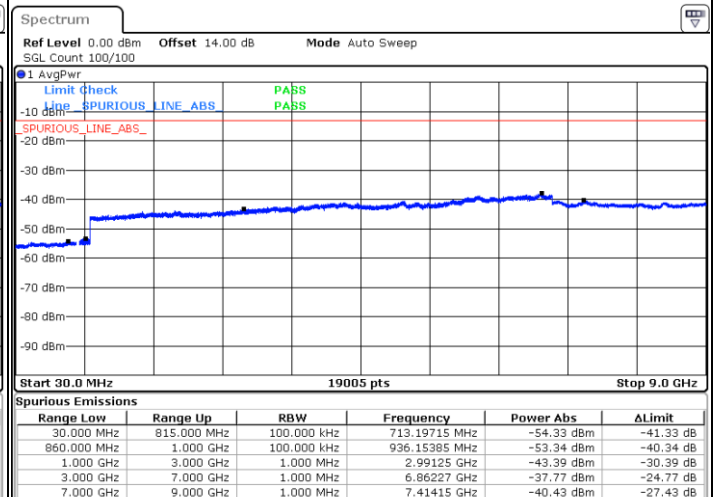
Date: 26 AUG 2019 21:40:51

Middle Channel / QPSK



Date: 26 AUG 2019 21:42:23

Middle Channel / 16QAM

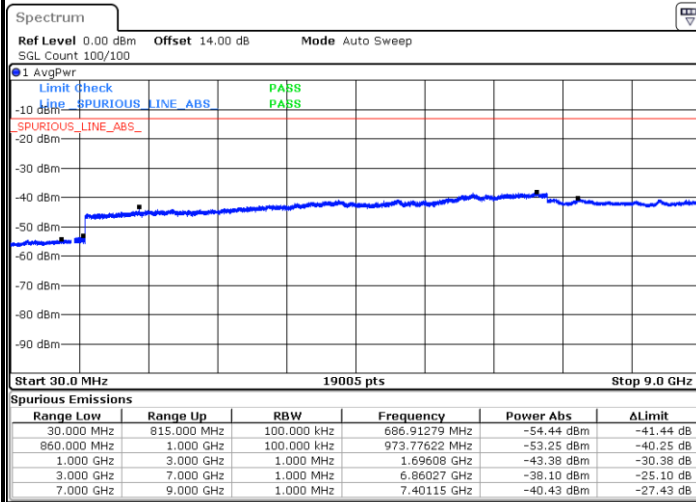


Date: 26 AUG 2019 21:43:16



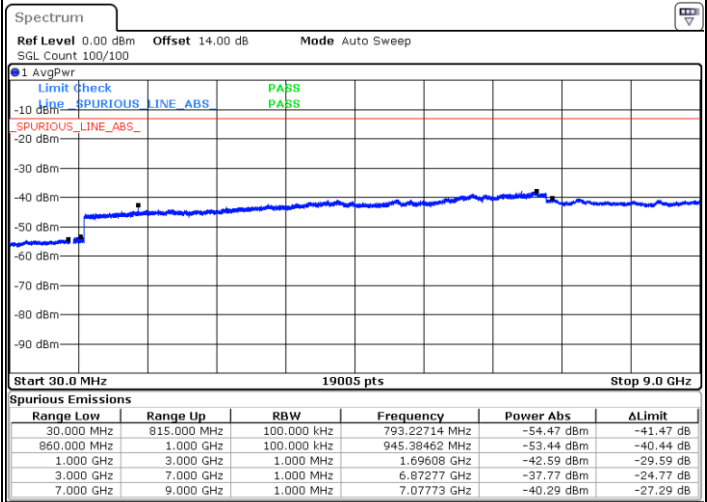
LTE Band 5 / 1.4MHz

Highest Channel / QPSK



Date: 26 AUG 2019 21:51:19

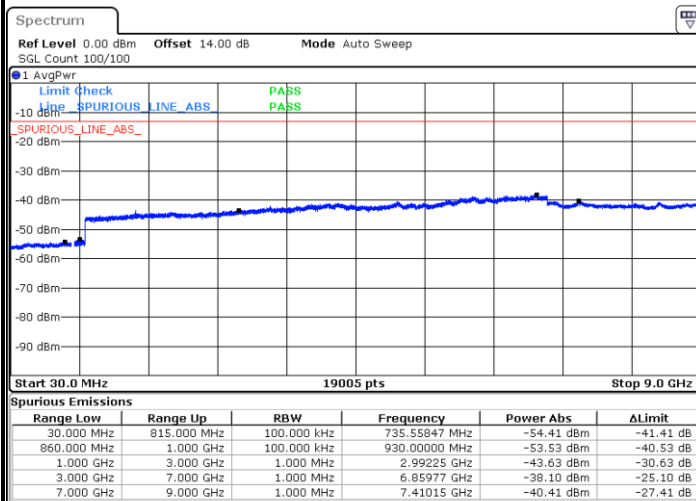
Highest Channel / 16QAM



Date: 26 AUG 2019 21:52:12

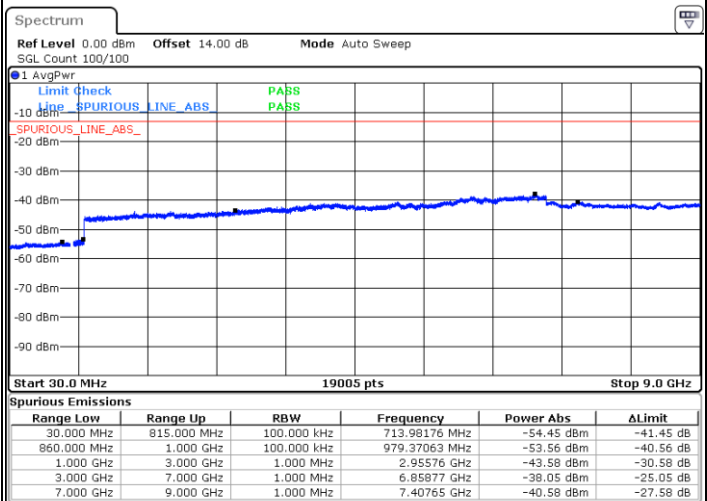
LTE Band 5 / 3MHz

Lowest Channel / QPSK



Date: 26 AUG 2019 22:00:16

Lowest Channel / 16QAM

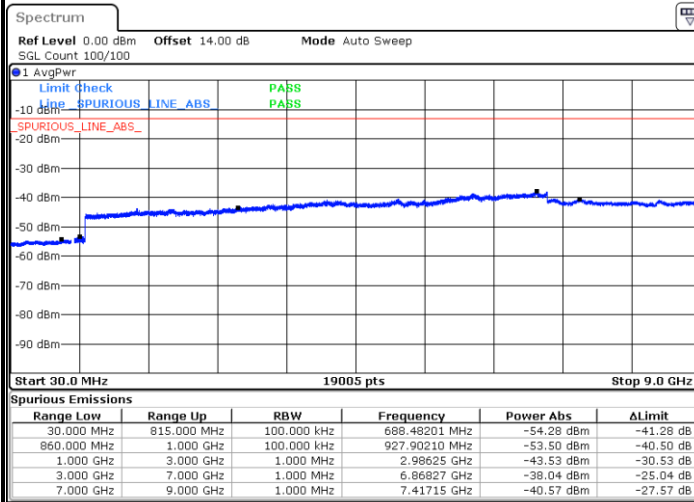


Date: 26 AUG 2019 22:01:09



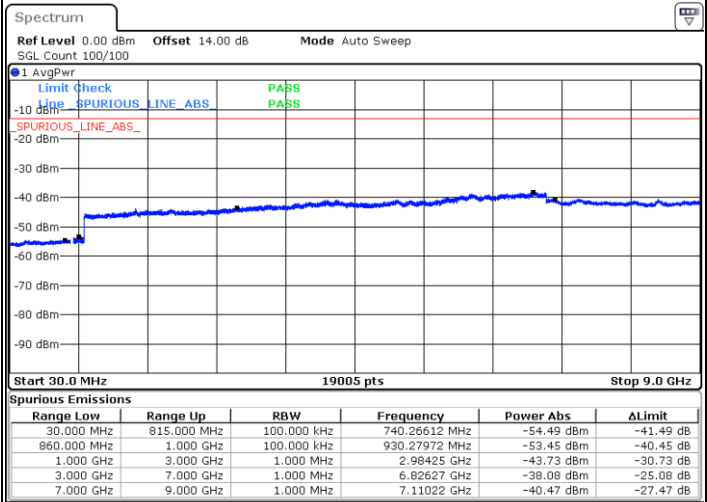
LTE Band 5 / 3MHz

Middle Channel / QPSK



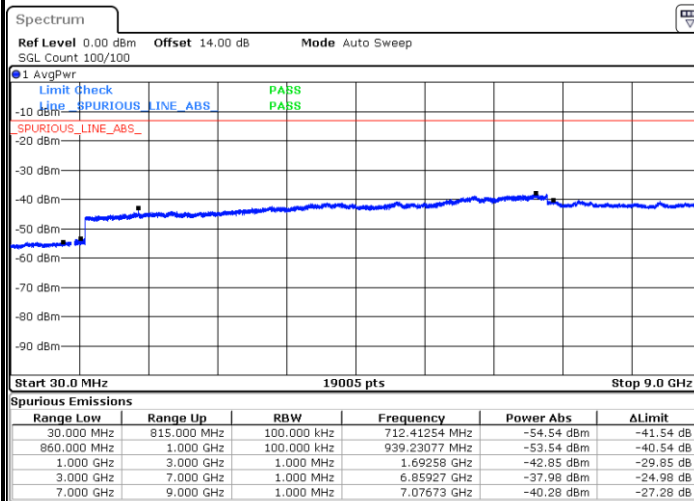
Date: 26 AUG 2019 22:02:40

Middle Channel / 16QAM



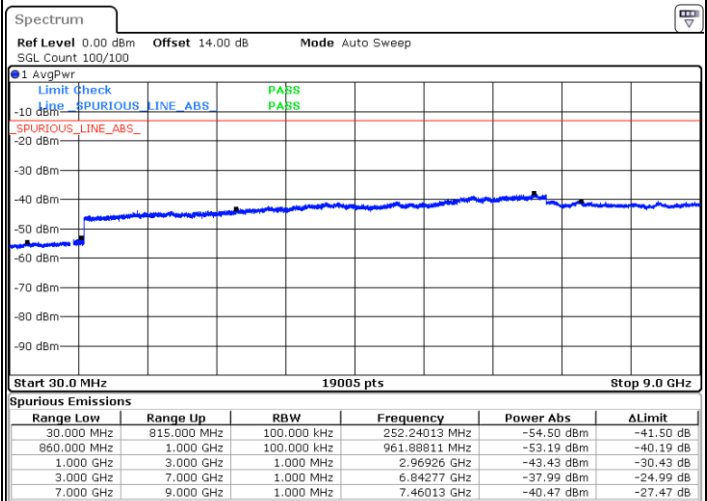
Date: 26 AUG 2019 22:03:34

Highest Channel / QPSK



Date: 26 AUG 2019 22:11:37

Highest Channel / 16QAM

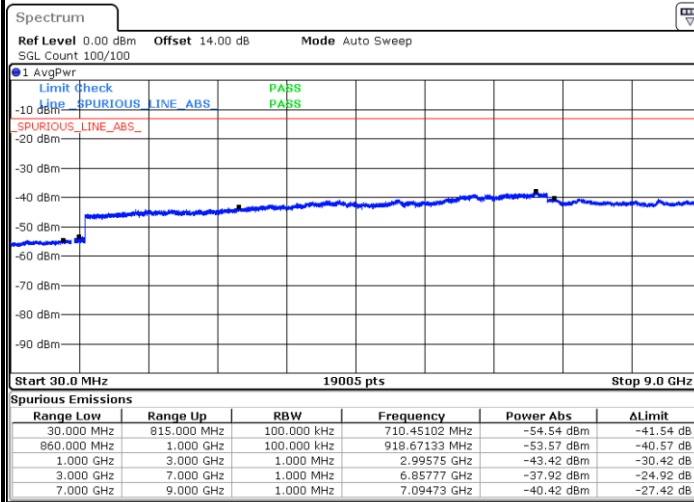


Date: 26 AUG 2019 22:12:30



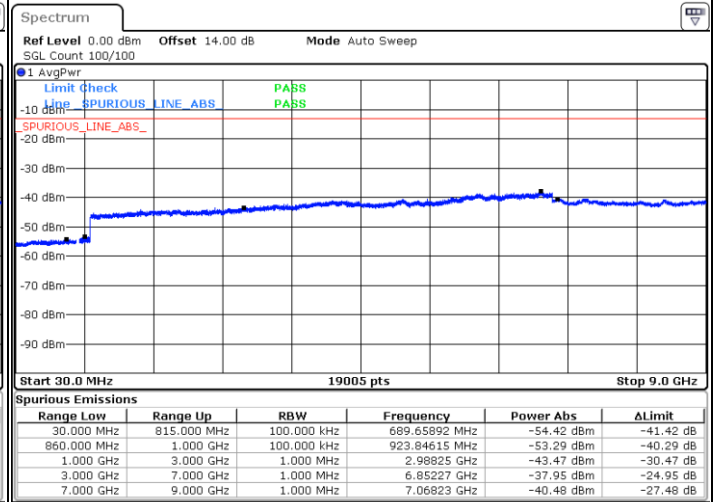
LTE Band 5 / 5MHz

Lowest Channel / QPSK



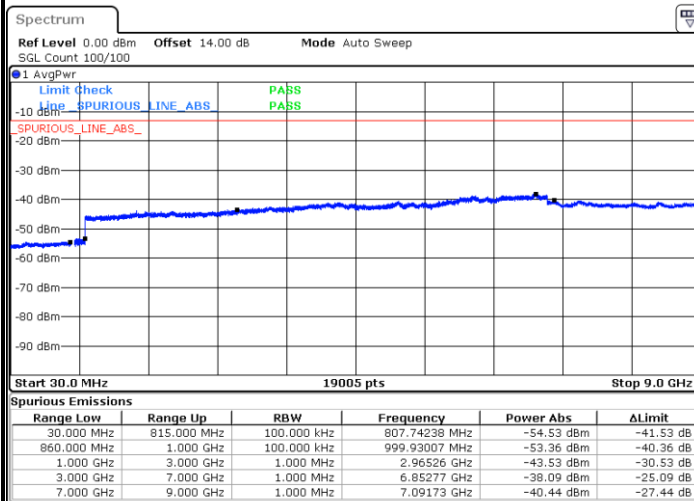
Date: 26 AUG 2019 22:20:33

Lowest Channel / 16QAM



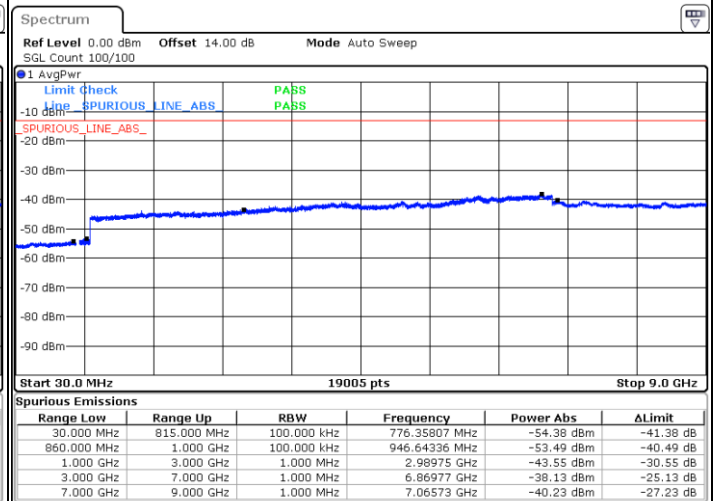
Date: 26 AUG 2019 22:21:26

Middle Channel / QPSK



Date: 26 AUG 2019 22:22:58

Middle Channel / 16QAM

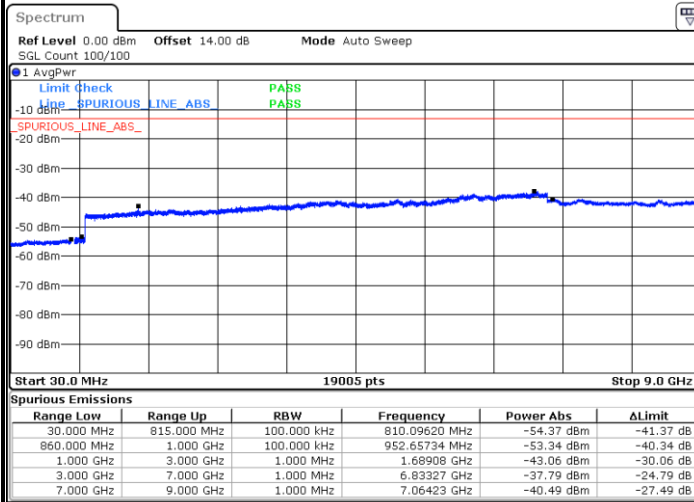


Date: 26 AUG 2019 22:23:51



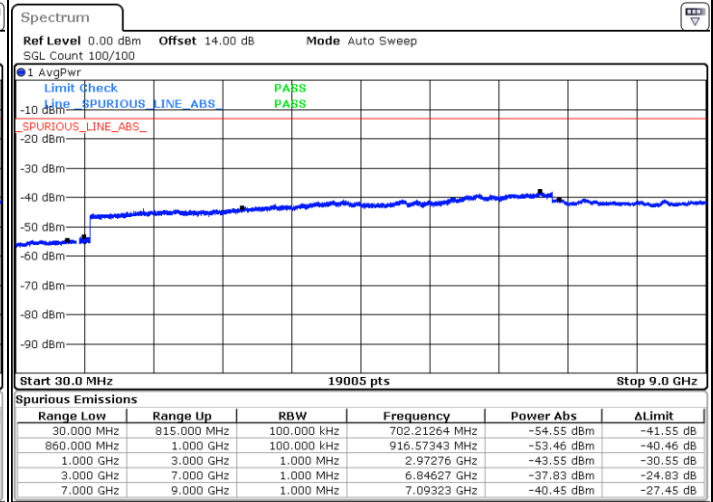
LTE Band 5 / 5MHz

Highest Channel / QPSK



Date: 26 AUG 2019 22:31:55

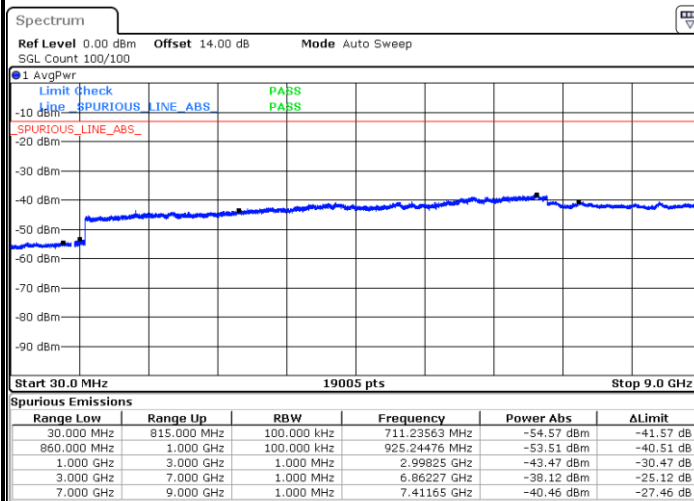
Highest Channel / 16QAM



Date: 26 AUG 2019 22:32:48

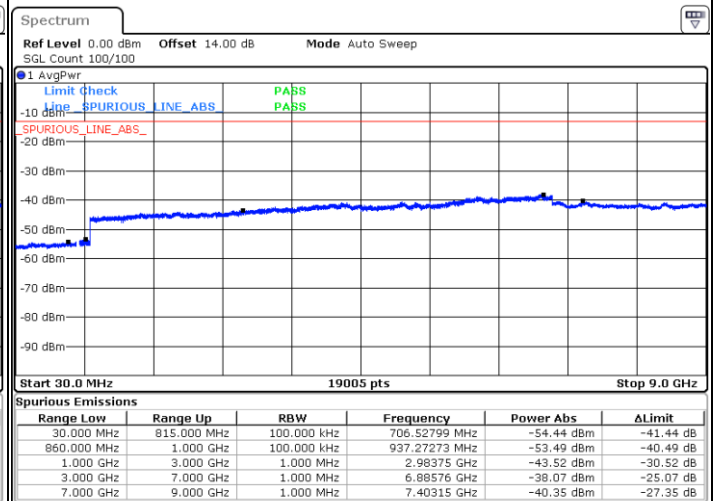
LTE Band 5 / 10MHz

Lowest Channel / QPSK



Date: 26 AUG 2019 22:40:52

Lowest Channel / 16QAM



Date: 26 AUG 2019 22:41:45