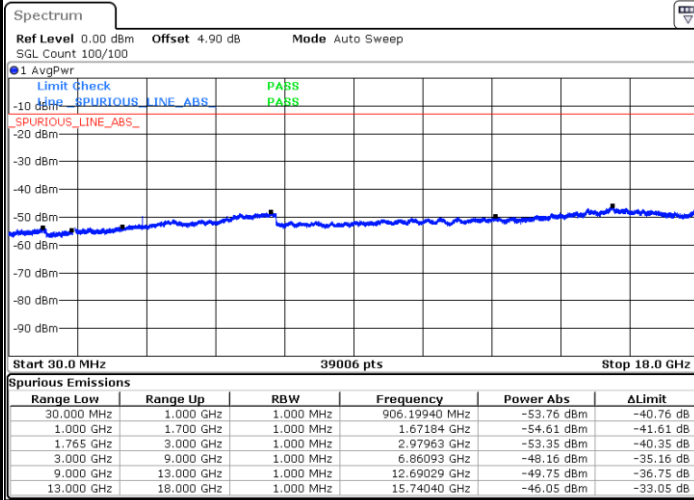




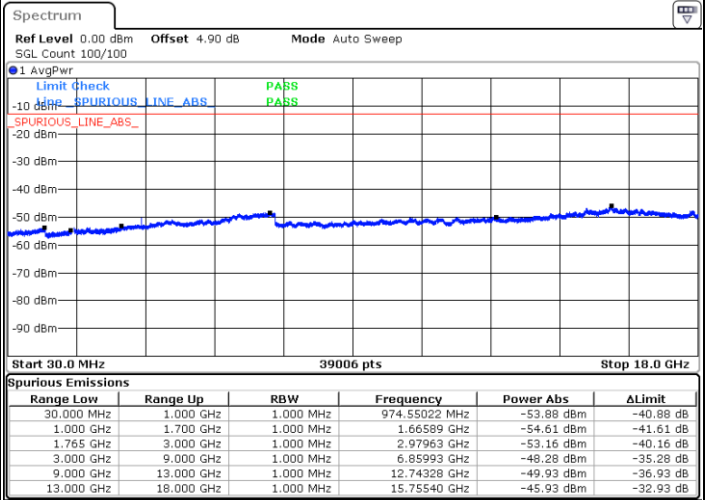
LTE Band 4 / 1.4MHz

Highest Channel / QPSK



Date: 31 DEC 2019 04:57:01

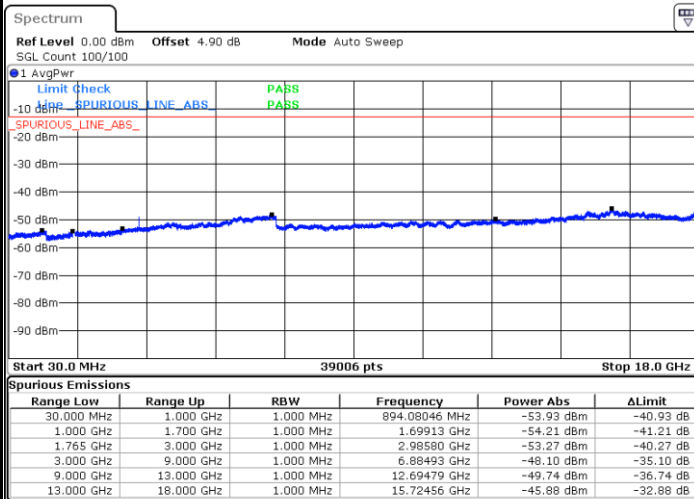
Highest Channel / 16QAM



Date: 31 DEC 2019 04:57:56

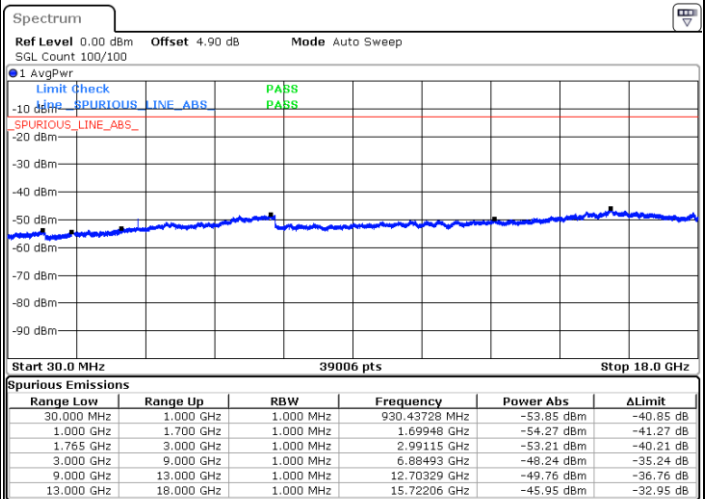
LTE Band 4 / 3MHz

Lowest Channel / QPSK



Date: 31 DEC 2019 05:03:59

Lowest Channel / 16QAM

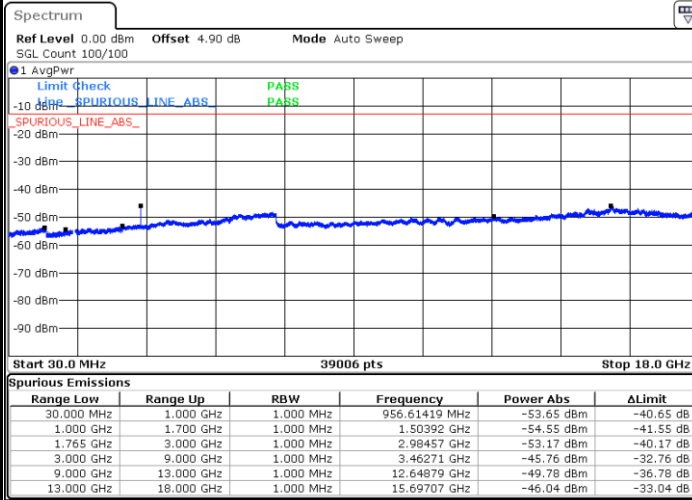


Date: 31 DEC 2019 05:04:54



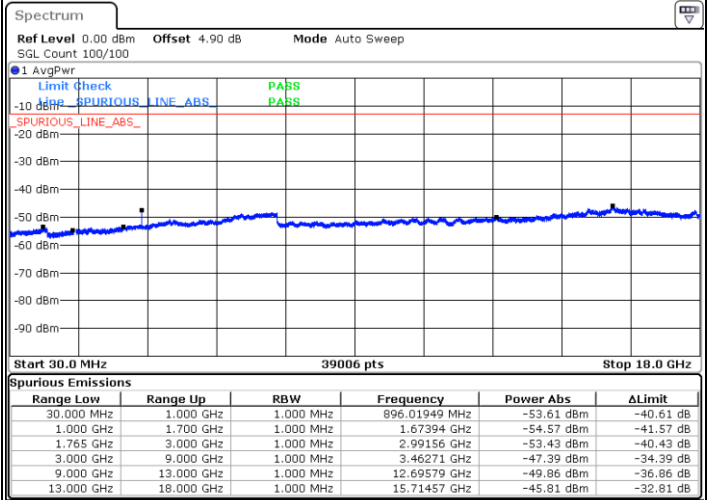
LTE Band 4 / 3MHz

Middle Channel / QPSK



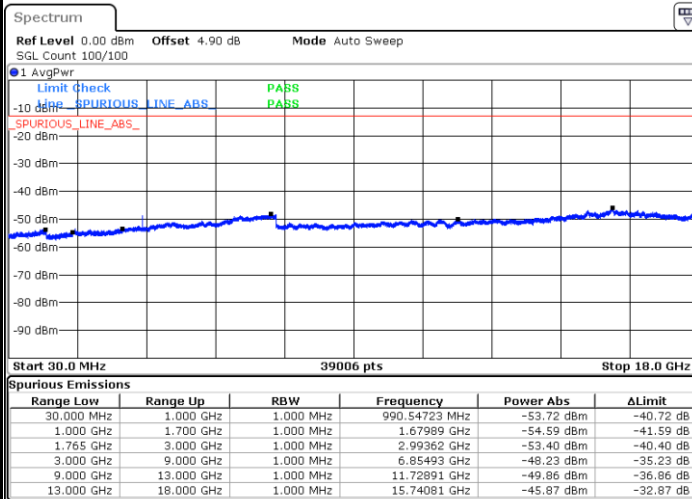
Date: 31 DEC 2019 05:06:28

Middle Channel / 16QAM



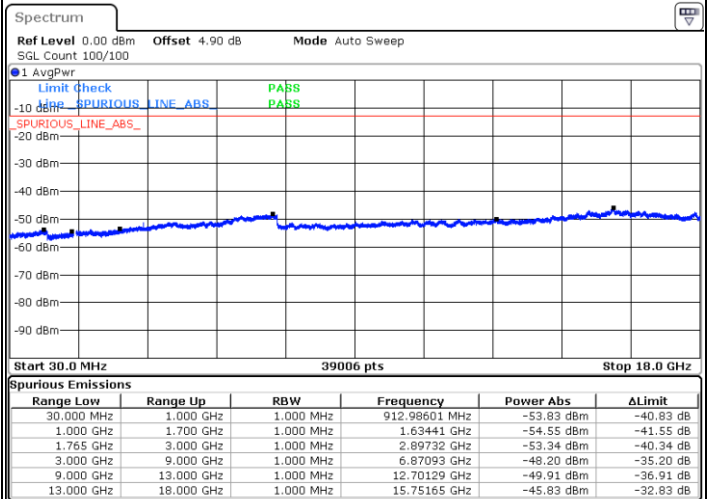
Date: 31 DEC 2019 05:07:23

Highest Channel / QPSK



Date: 31 DEC 2019 05:13:26

Highest Channel / 16QAM

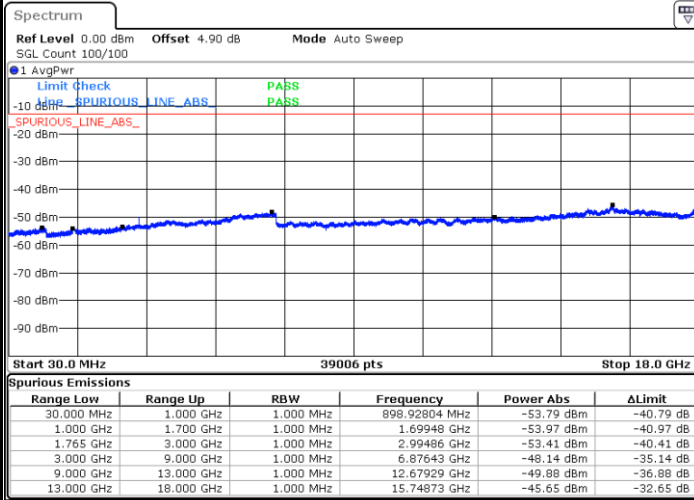


Date: 31 DEC 2019 05:14:21



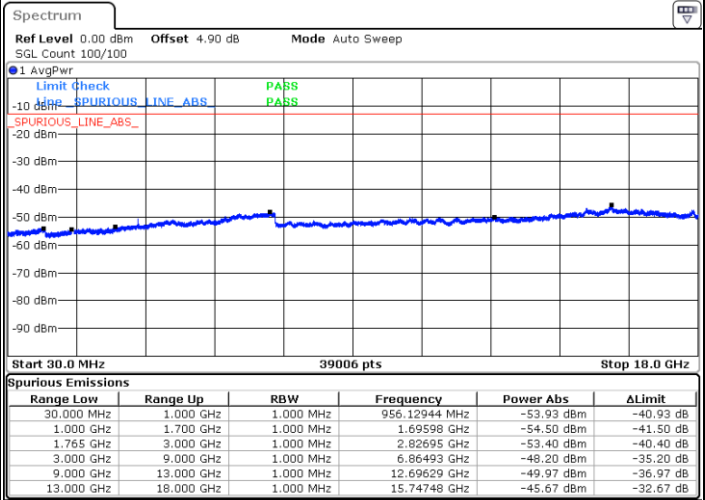
LTE Band 4 / 5MHz

Lowest Channel / QPSK



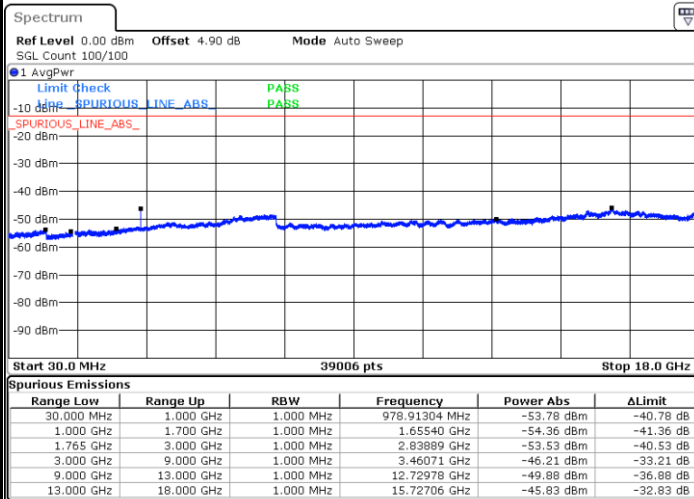
Date: 31 DEC 2019 05:20:25

Lowest Channel / 16QAM



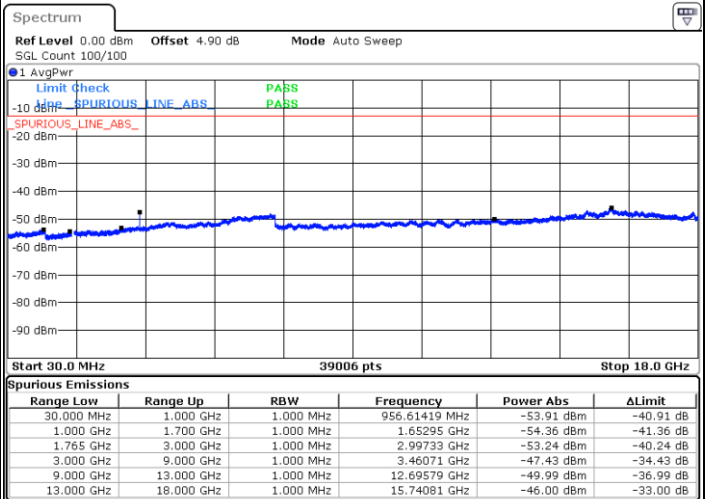
Date: 31 DEC 2019 05:21:19

Middle Channel / QPSK



Date: 31 DEC 2019 05:22:54

Middle Channel / 16QAM

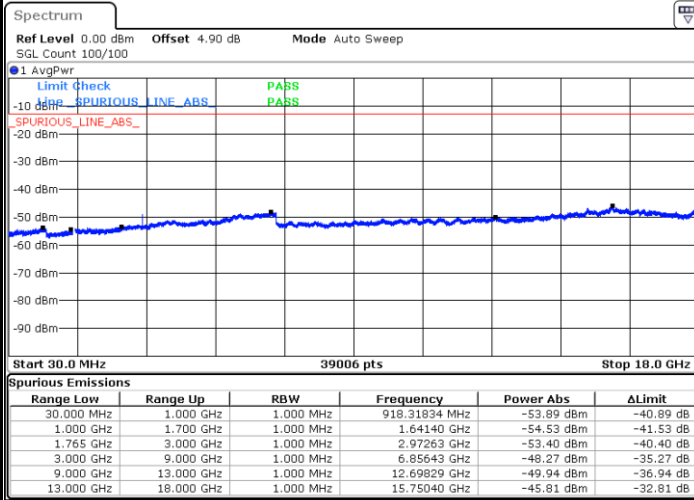


Date: 31 DEC 2019 05:23:48



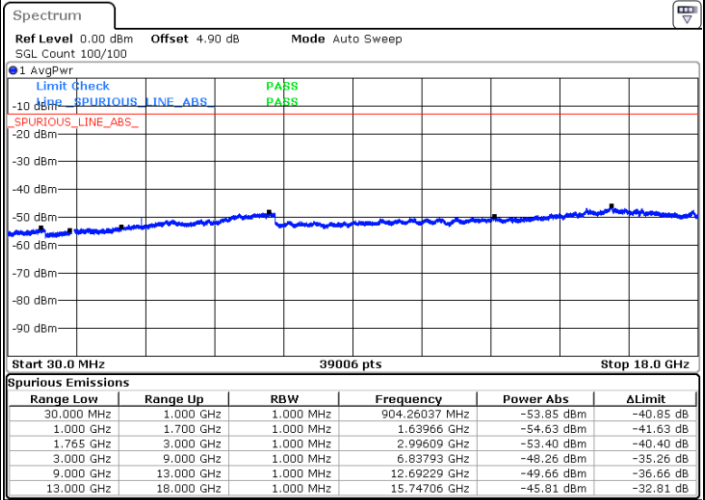
LTE Band 4 / 5MHz

Highest Channel / QPSK



Date: 31 DEC 2019 05:29:52

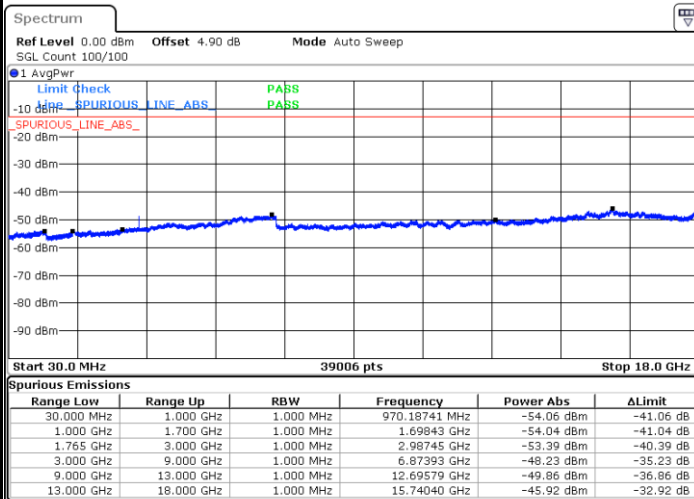
Highest Channel / 16QAM



Date: 31 DEC 2019 05:30:46

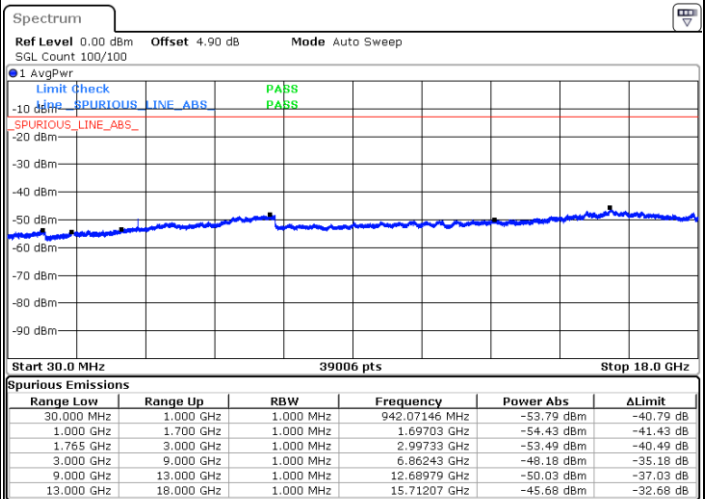
LTE Band 4 / 10MHz

Lowest Channel / QPSK



Date: 31 DEC 2019 05:35:23

Lowest Channel / 16QAM

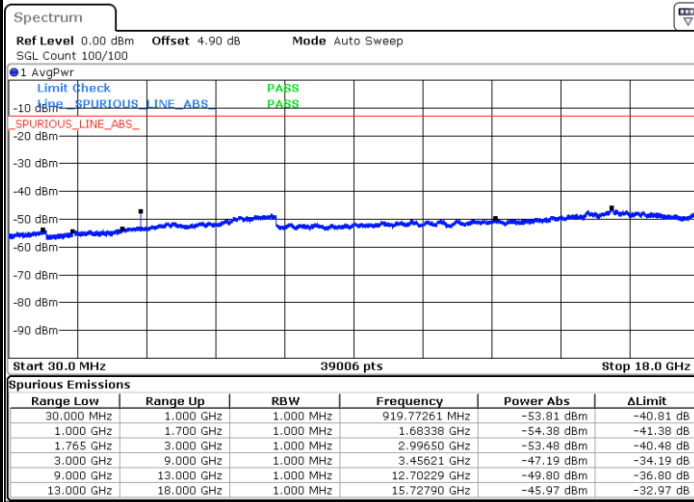


Date: 31 DEC 2019 05:36:17



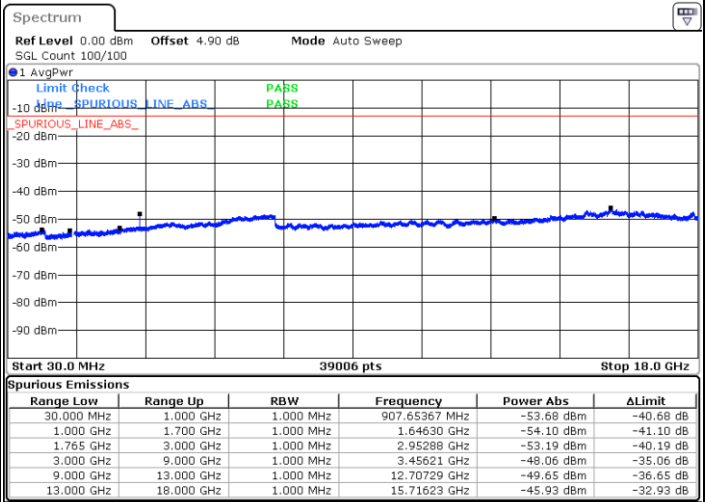
LTE Band 4 / 10MHz

Middle Channel / QPSK



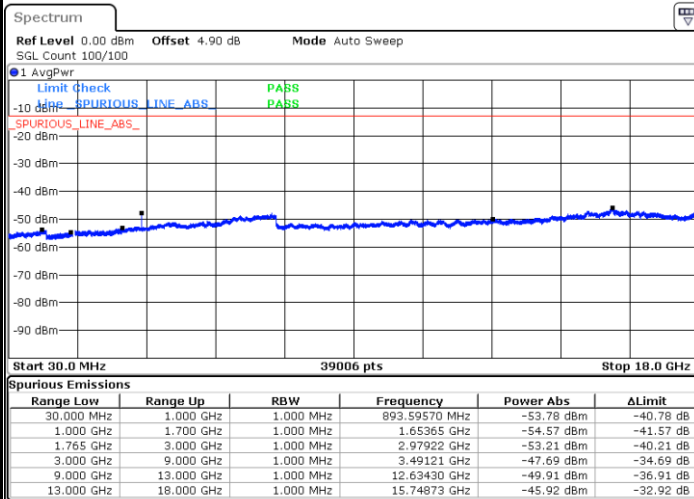
Date: 31 DEC 2019 05:37:32

Middle Channel / 16QAM



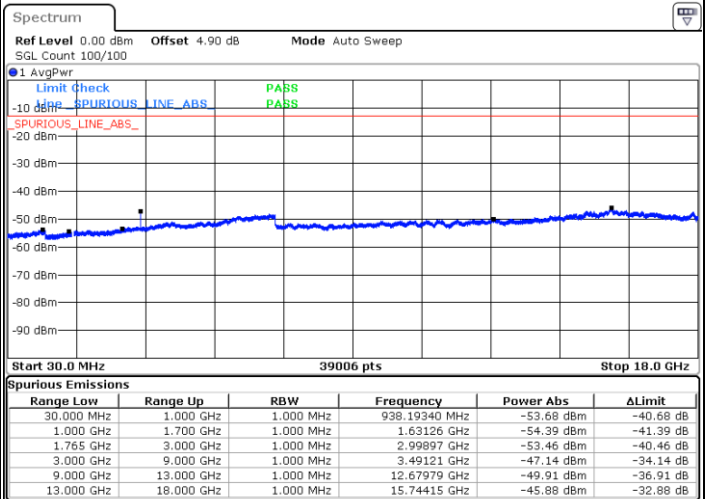
Date: 31 DEC 2019 05:38:26

Highest Channel / QPSK



Date: 31 DEC 2019 05:43:03

Highest Channel / 16QAM

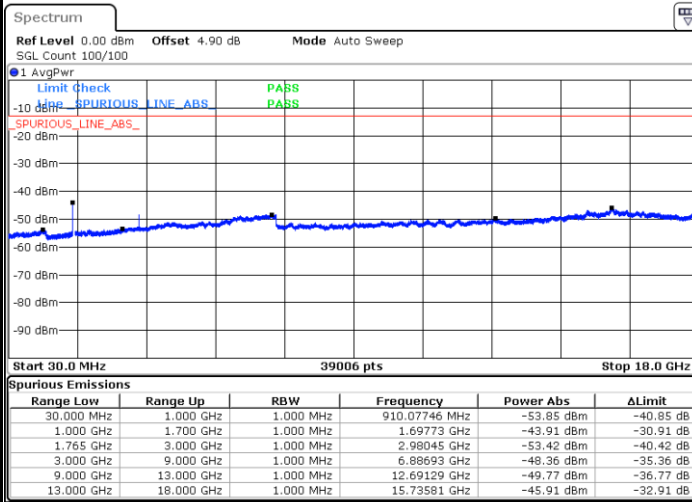


Date: 31 DEC 2019 05:43:57



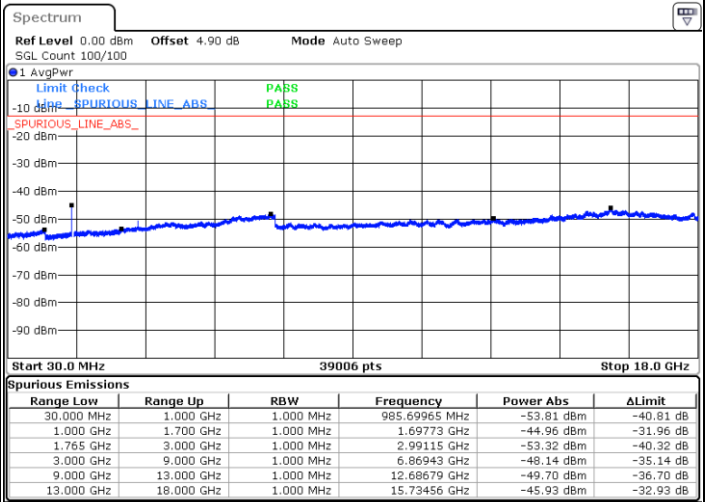
LTE Band 4 / 15MHz

Lowest Channel / QPSK



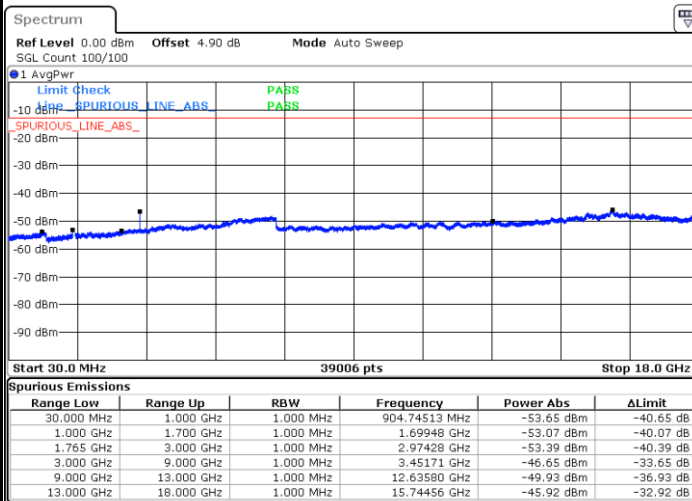
Date: 31 DEC 2019 05:48:34

Lowest Channel / 16QAM



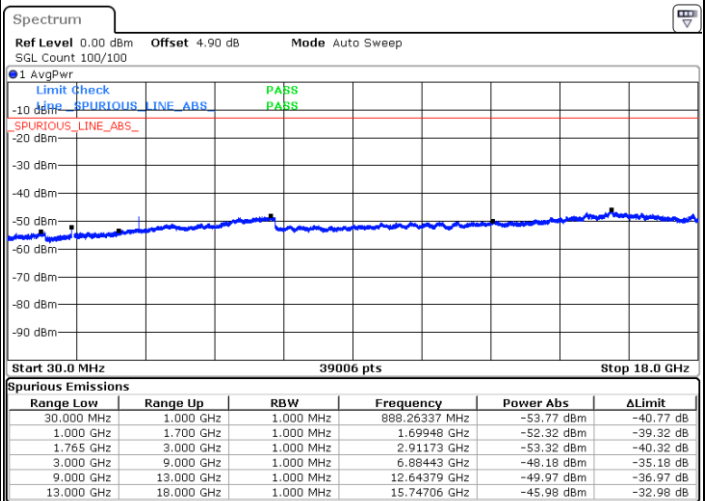
Date: 31 DEC 2019 05:49:29

Middle Channel / QPSK



Date: 31 DEC 2019 05:50:43

Middle Channel / 16QAM

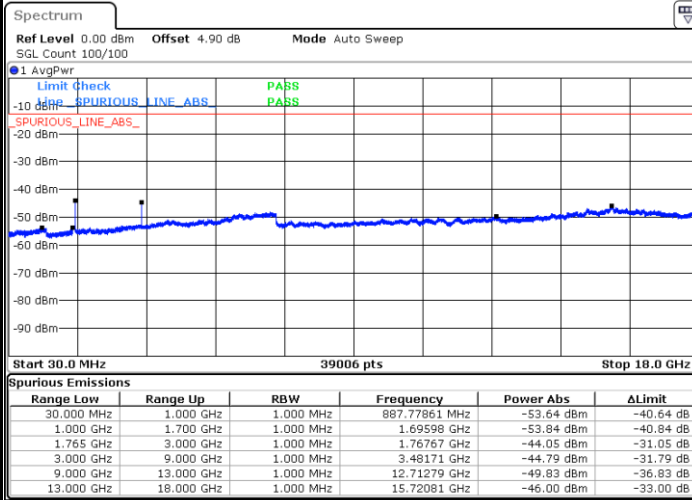


Date: 31 DEC 2019 05:51:38



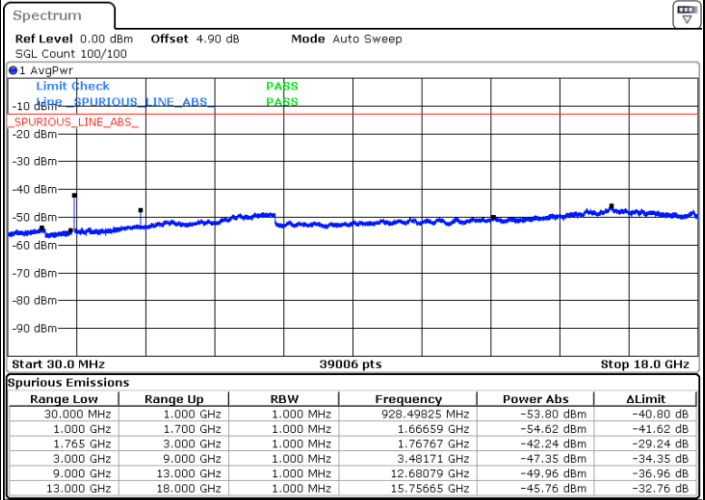
LTE Band 4 / 15MHz

Highest Channel / QPSK



Date: 31 DEC 2019 05:56:14

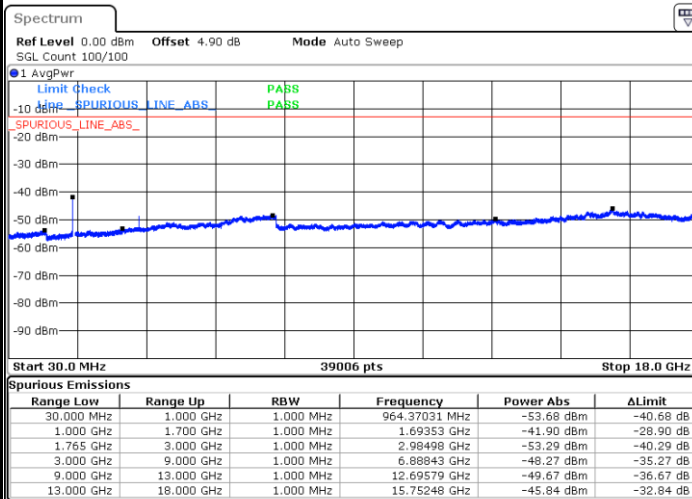
Highest Channel / 16QAM



Date: 31 DEC 2019 05:57:09

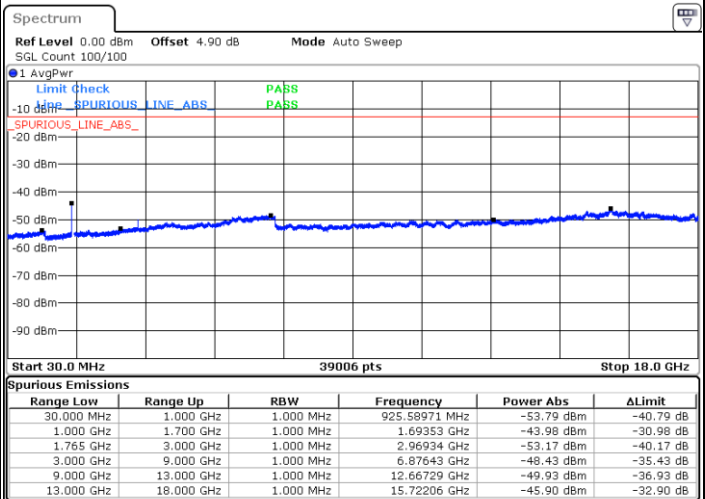
LTE Band 4 / 20MHz

Lowest Channel / QPSK



Date: 31 DEC 2019 06:01:46

Lowest Channel / 16QAM

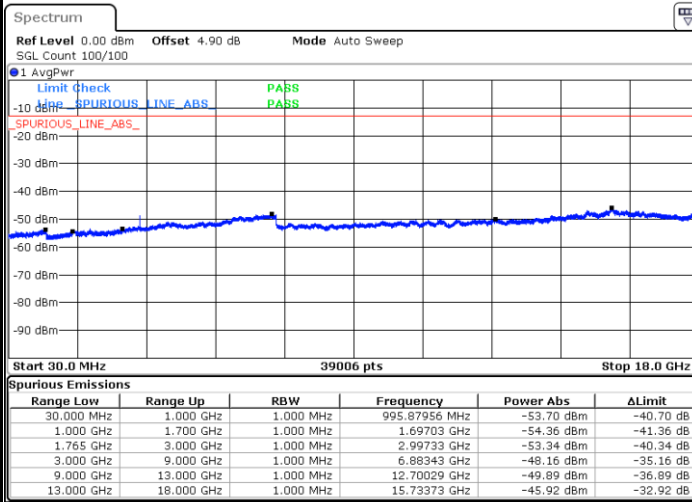


Date: 31 DEC 2019 06:02:41



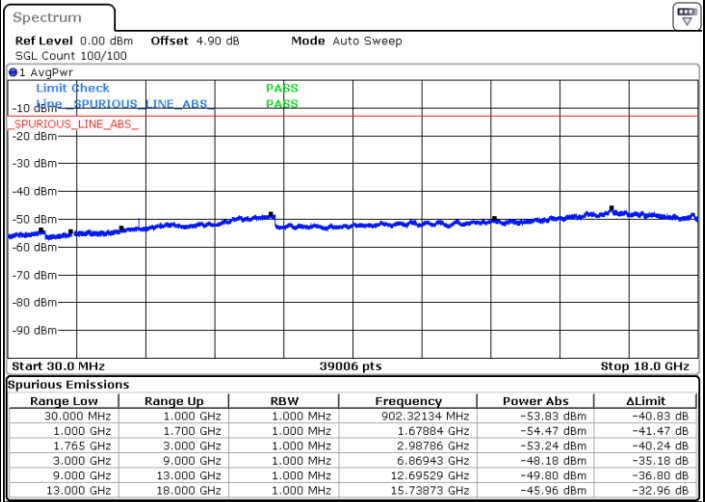
LTE Band 4 / 20MHz

Middle Channel / QPSK



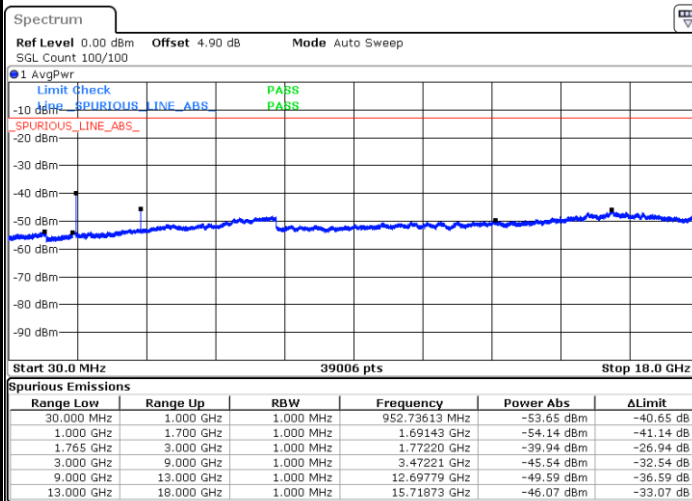
Date: 31 DEC 2019 06:03:55

Middle Channel / 16QAM



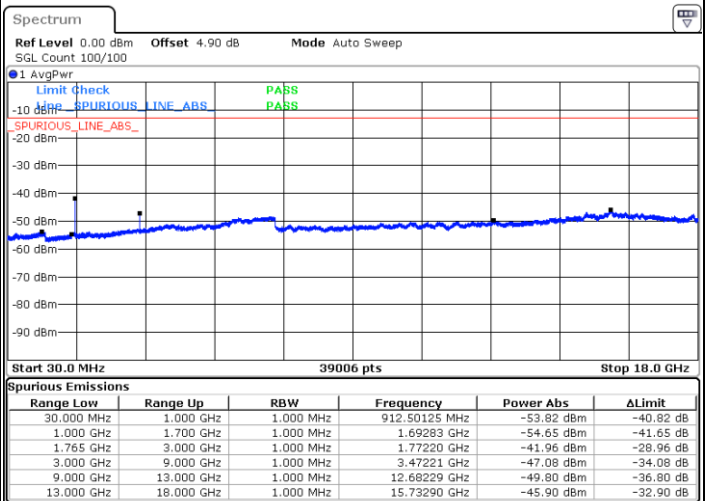
Date: 31 DEC 2019 06:04:49

Highest Channel / QPSK



Date: 31 DEC 2019 06:09:26

Highest Channel / 16QAM



Date: 31 DEC 2019 06:10:20

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	0.0026	PASS
40	Normal Voltage	0.0014	
30	Normal Voltage	0.0025	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0016	
0	Normal Voltage	0.0022	
-10	Normal Voltage	0.0026	
-20	Normal Voltage	0.0024	
-30	Normal Voltage	0.0015	
20	Maximum Voltage	0.0018	
20	Normal Voltage	0.0012	
20	Battery End Point	0.0008	

Note:

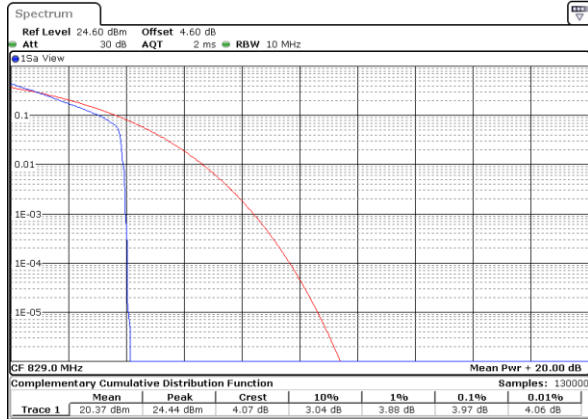
1. Normal Voltage =13.2 V. ; Battery End Point (BEP) =10.5 V. ; Maximum Voltage =33.1 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



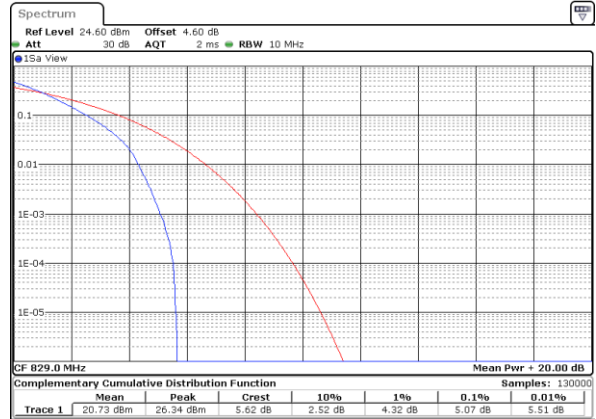
LTE Band 5

Peak-to-Average Ratio

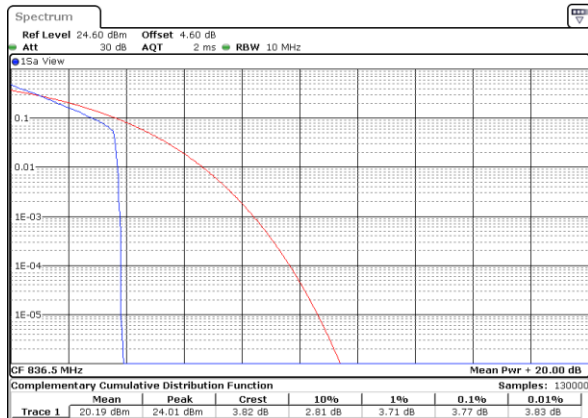
Mode	LTE Band 5 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.97	5.07	5.07	5.01	PASS
Middle CH	3.77	5.07	4.52	4.64	
Highest CH	3.91	4.81	4.93	4.81	

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


Date: 31 DEC 2019 11:54:53

Lowest Channel / Full RB


Date: 31 DEC 2019 11:55:01

Middle Channel / 1RB


Date: 31 DEC 2019 11:55:19

Middle Channel / Full RB


Date: 31 DEC 2019 11:55:11

Highest Channel / 1RB


Date: 31 DEC 2019 11:55:31

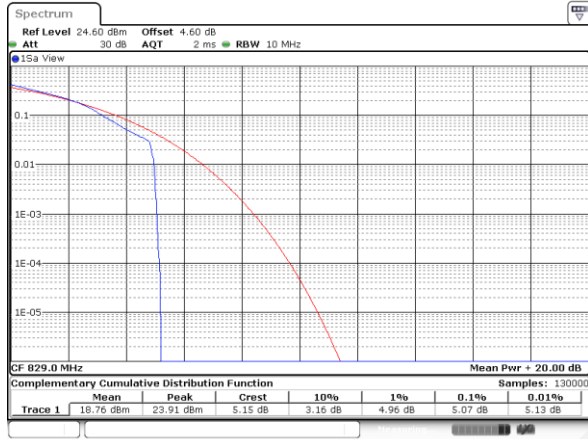
Highest Channel / Full RB


Date: 31 DEC 2019 11:55:40

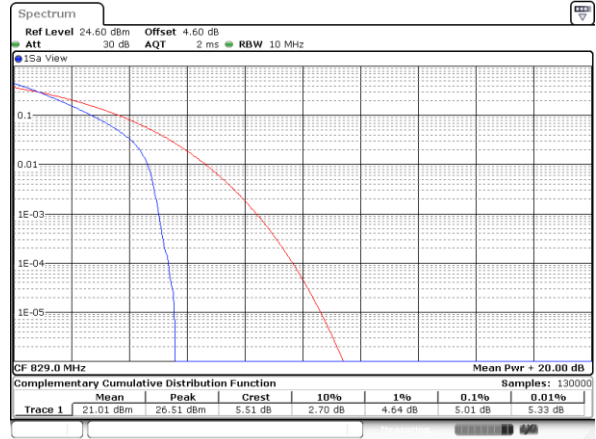


LTE Band 5 / 10MHz / 16QAM

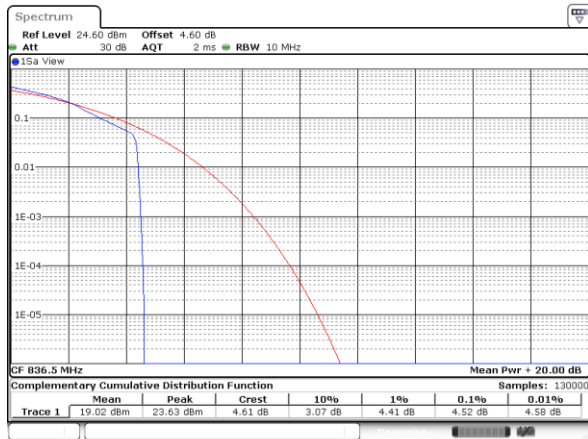
Lowest Channel / 1RB



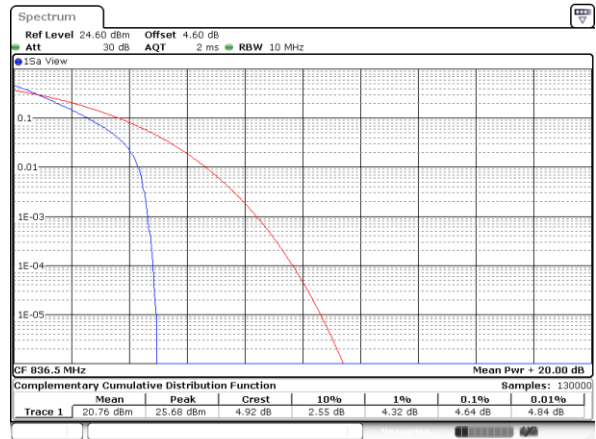
Lowest Channel / Full RB



Middle Channel / 1RB



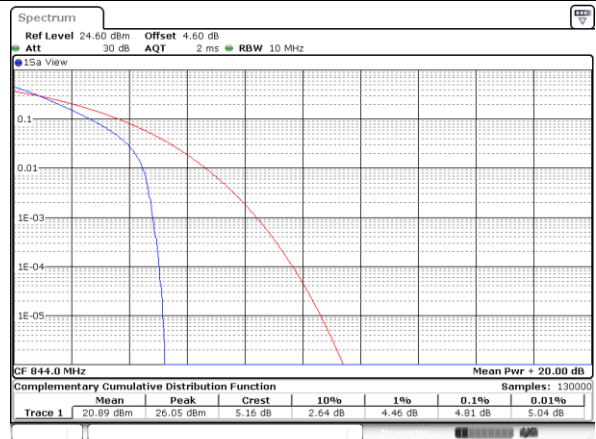
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB



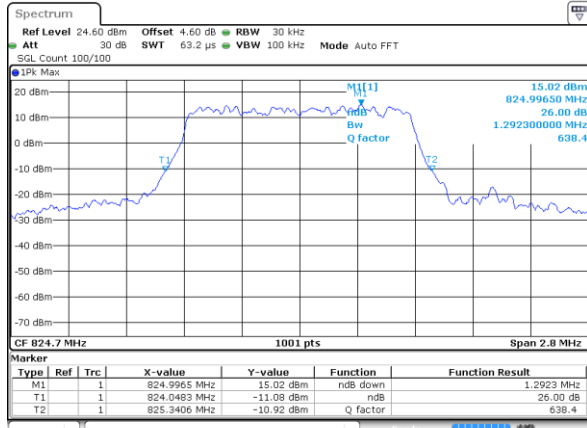
**26dB Bandwidth**

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	1.2923	1.2811	3.015	3.027	4.975	4.995	9.75	5.874				
Middle CH	1.2783	1.2699	3.021	3.027	4.905	4.955	9.81	5.634				
Highest CH	1.2336	1.3119	3.033	3.039	4.895	4.915	9.89	5.614				

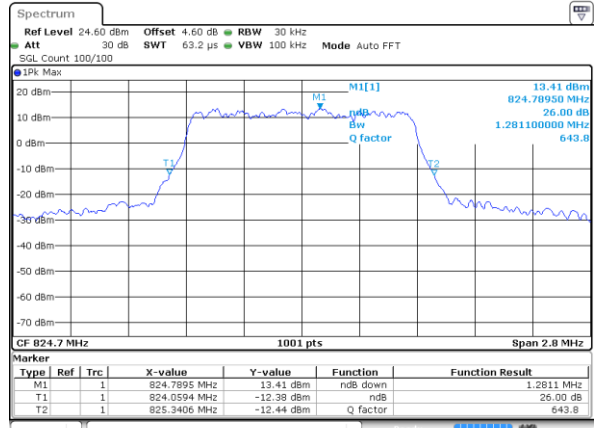


LTE Band 5

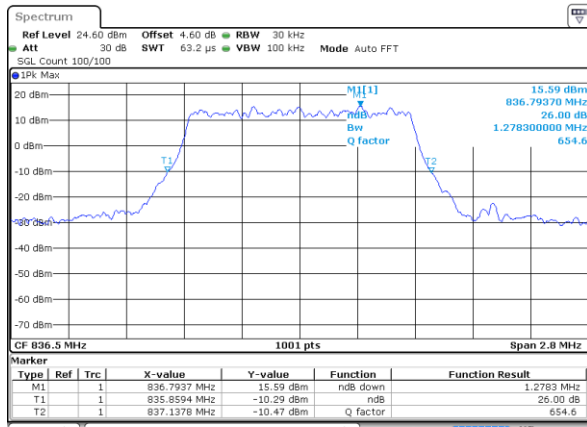
Lowest Channel / 1.4MHz / QPSK



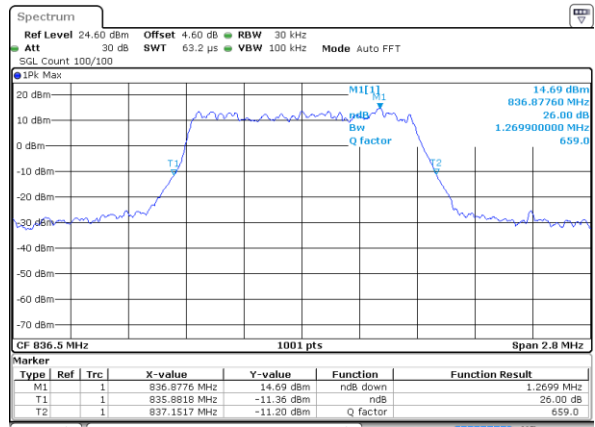
Lowest Channel / 1.4MHz / 16QAM



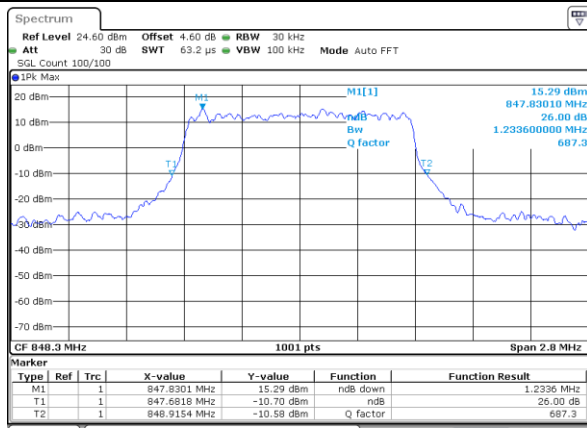
Middle Channel / 1.4MHz / QPSK



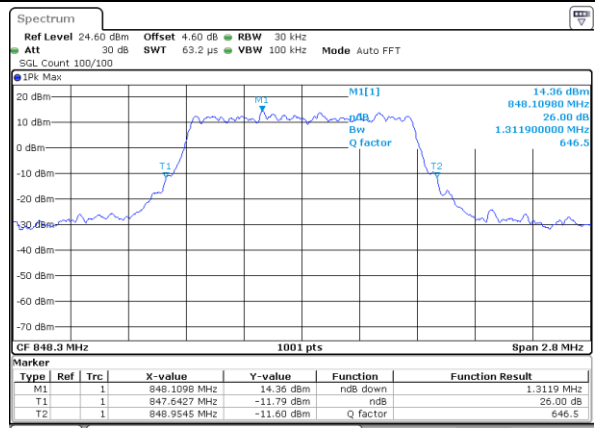
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



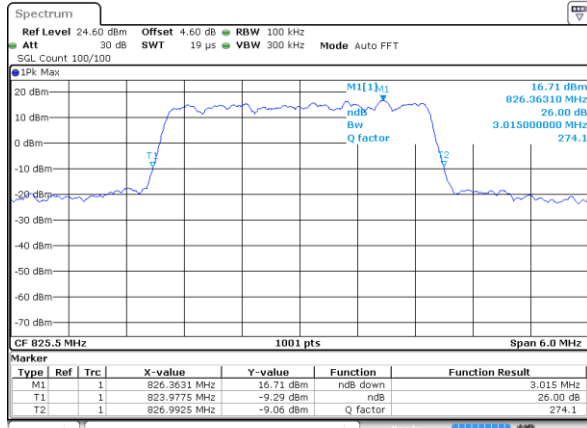
Highest Channel / 1.4MHz / 16QAM



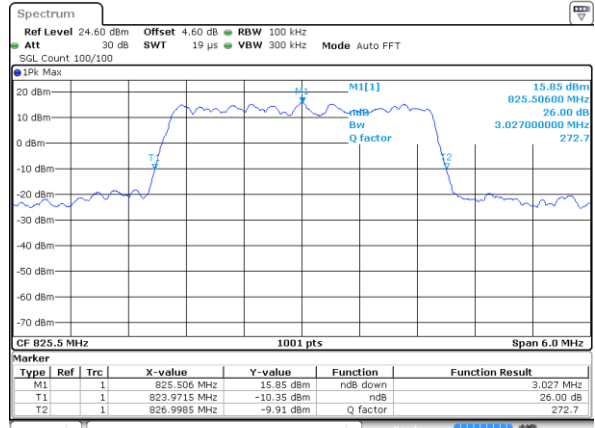


LTE Band 5

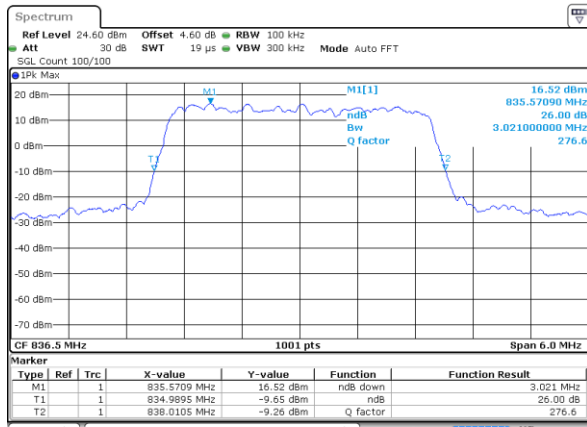
Lowest Channel / 3MHz / QPSK



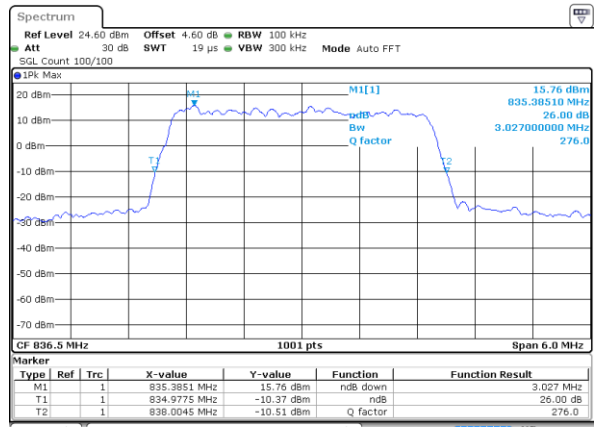
Lowest Channel / 3MHz / 16QAM



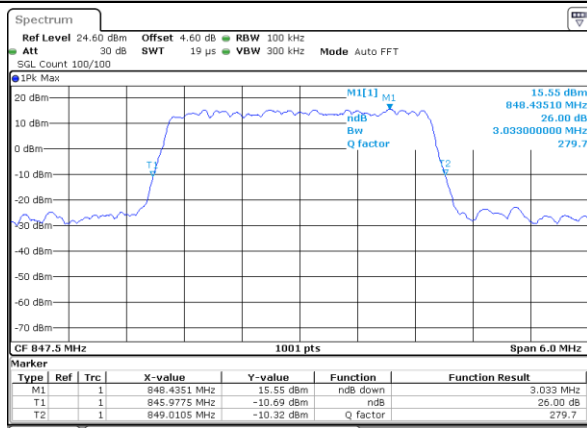
Middle Channel / 3MHz / QPSK



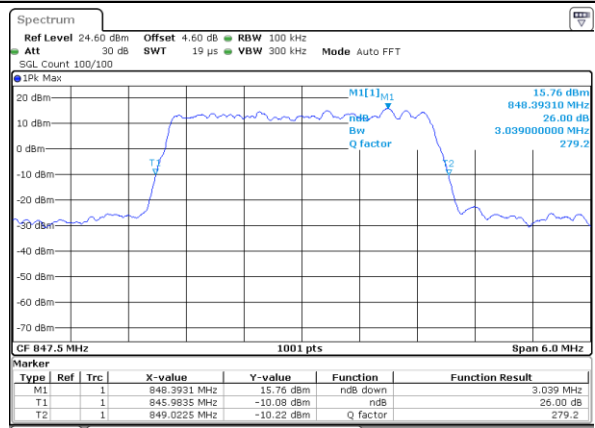
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK



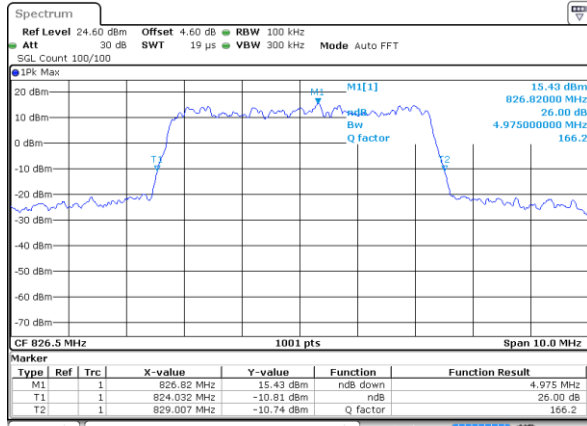
Highest Channel / 3MHz / 16QAM





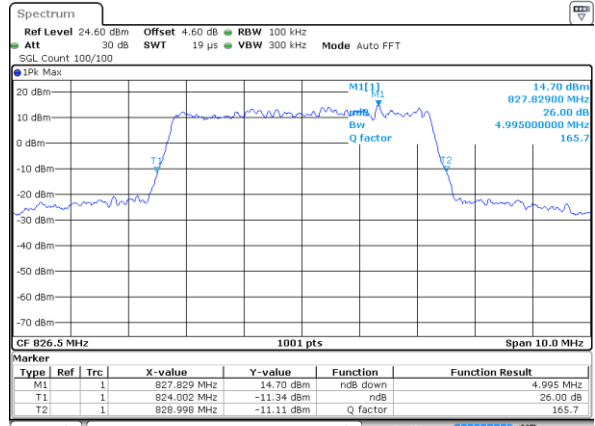
LTE Band 5

Lowest Channel / 5MHz / QPSK



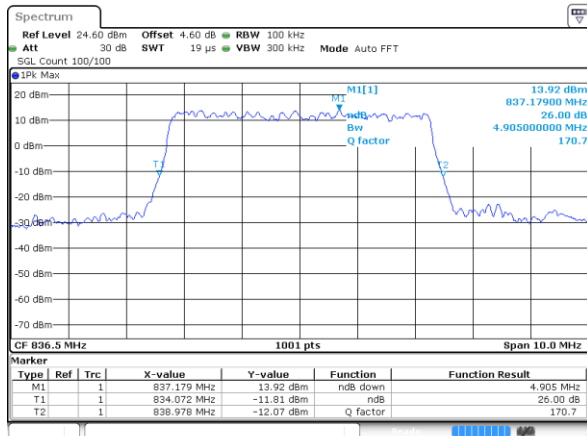
Date: 31 DEC 2019 11:09:06

Lowest Channel / 5MHz / 16QAM



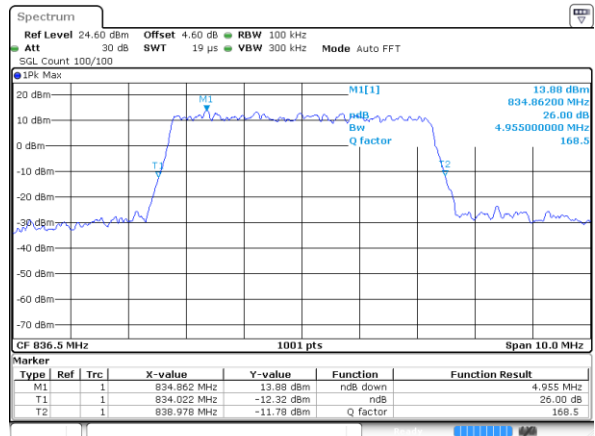
Date: 31 DEC 2019 11:09:16

Middle Channel / 5MHz / QPSK



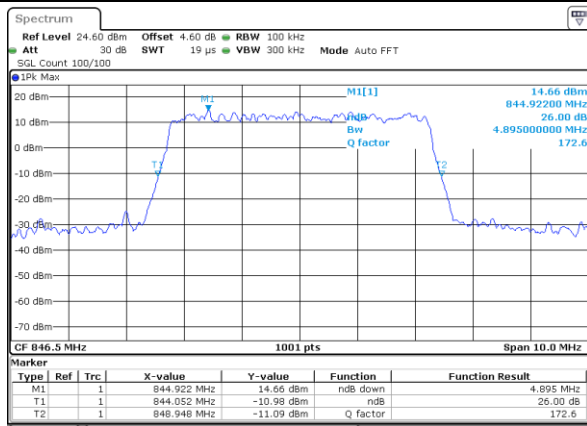
Date: 31 DEC 2019 10:13:57

Middle Channel / 5MHz / 16QAM



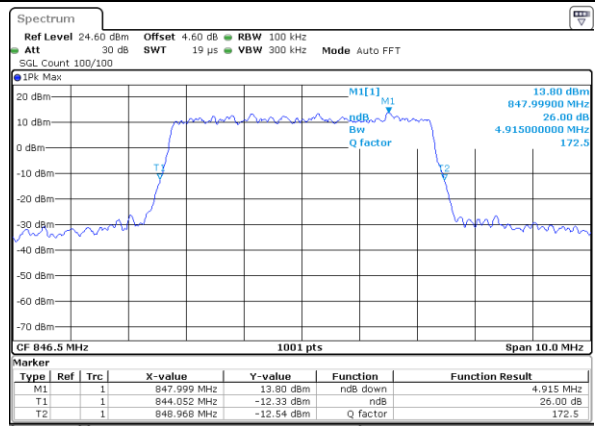
Date: 31 DEC 2019 10:14:07

Highest Channel / 5MHz / QPSK



Date: 31 DEC 2019 10:16:25

Highest Channel / 5MHz / 16QAM

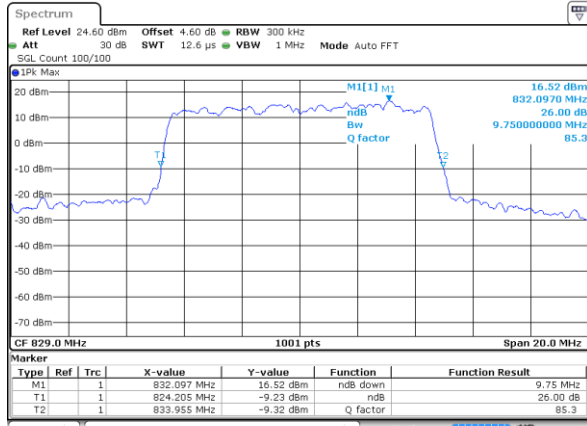


Date: 31 DEC 2019 10:16:35



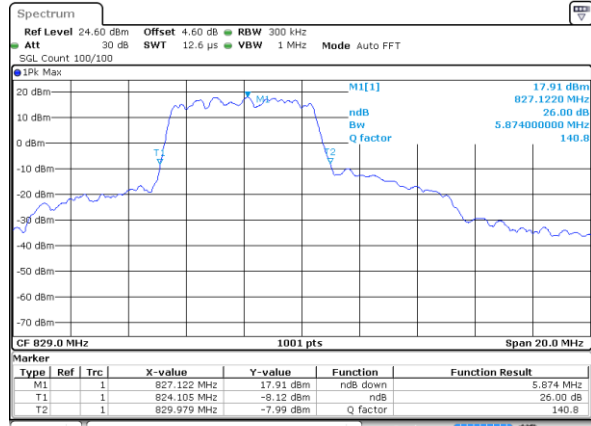
LTE Band 5

Lowest Channel / 10MHz / QPSK



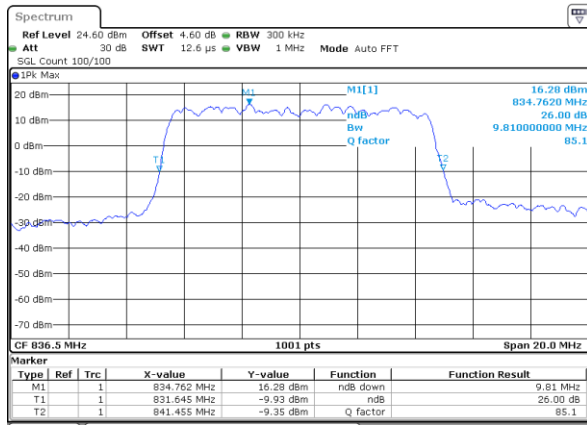
Date: 31 DEC 2019 10:25:13

Lowest Channel / 10MHz / 16QAM



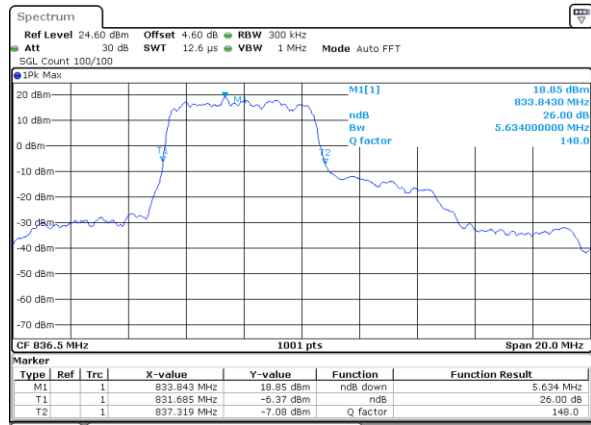
Date: 31 DEC 2019 11:44:22

Middle Channel / 10MHz / QPSK



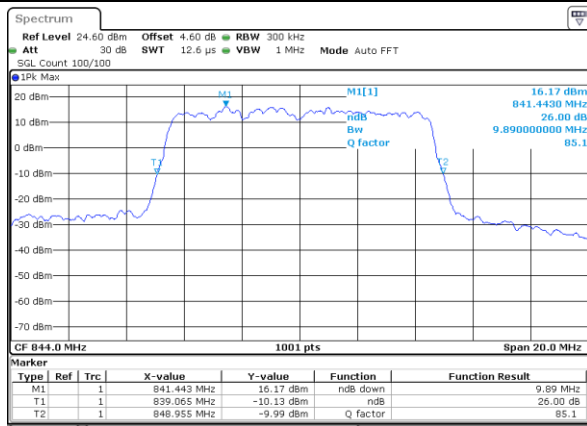
Date: 31 DEC 2019 10:32:13

Middle Channel / 10MHz / 16QAM



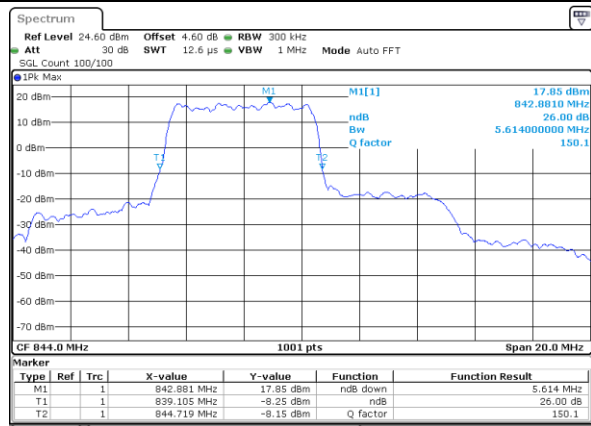
Date: 31 DEC 2019 11:44:26

Highest Channel / 10MHz / QPSK



Date: 31 DEC 2019 10:34:22

Highest Channel / 10MHz / 16QAM



Date: 31 DEC 2019 11:46:00

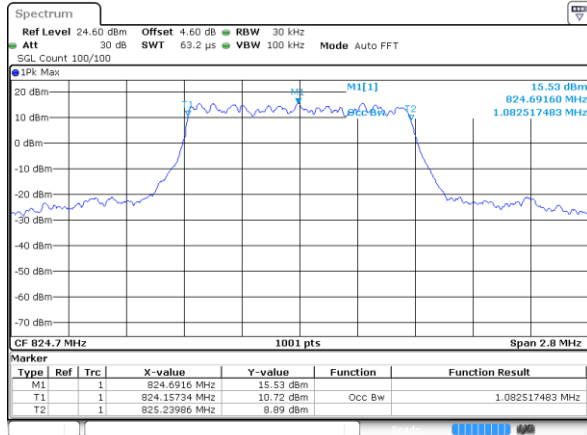
**Occupied Bandwidth**

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	1.08	1.09	2.72	2.72	4.50	4.49	9.01	5.02				
Middle CH	1.10	1.09	2.70	2.72	4.49	4.50	8.99	5.12				
Highest CH	1.09	1.08	2.73	2.70	4.50	4.48	9.01	5.06				

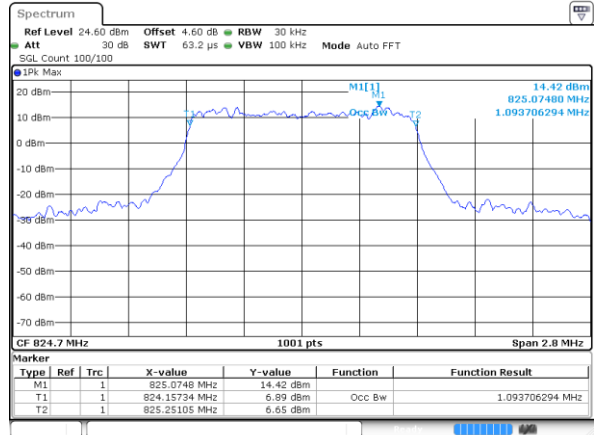


LTE Band 5

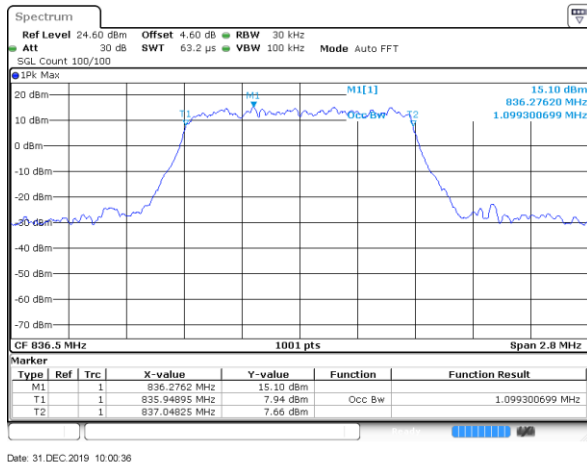
Lowest Channel / 1.4MHz / QPSK



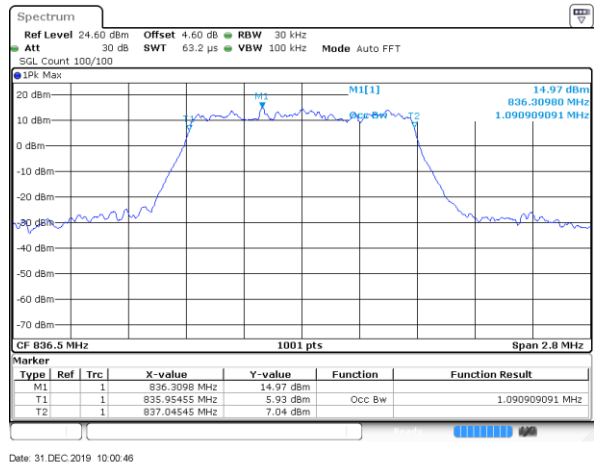
Lowest Channel / 1.4MHz / 16QAM



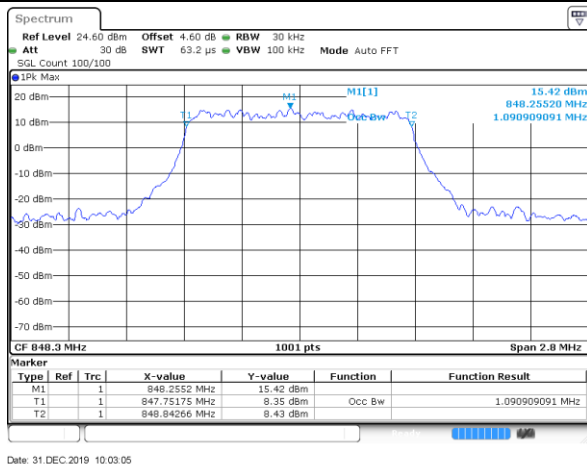
Middle Channel / 1.4MHz / QPSK



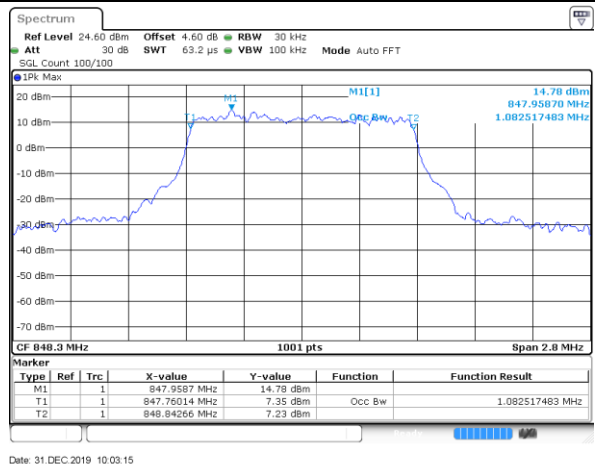
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



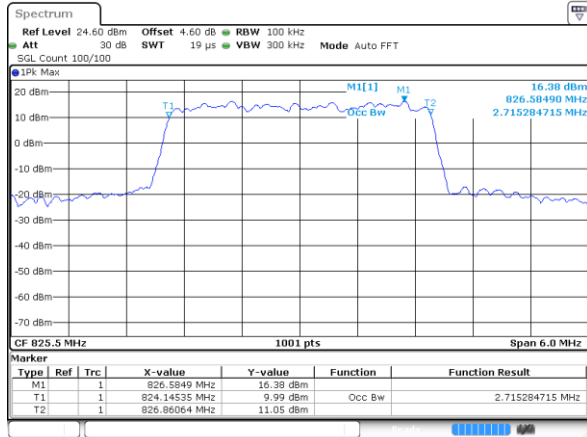
Highest Channel / 1.4MHz / 16QAM





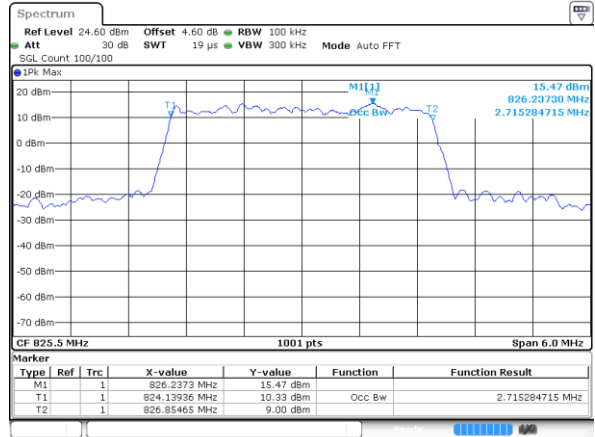
LTE Band 5

Lowest Channel / 3MHz / QPSK



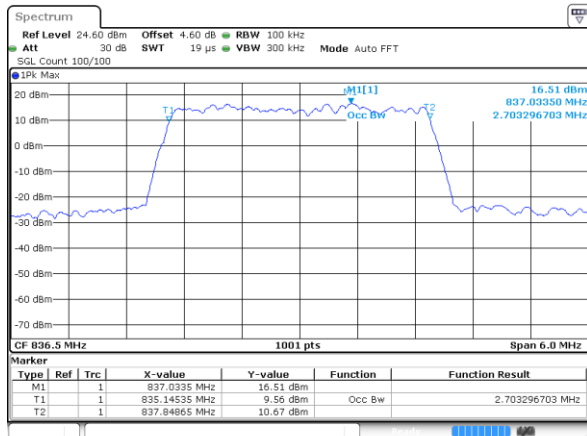
Date: 31 DEC 2019 10:12:02

Lowest Channel / 3MHz / 16QAM



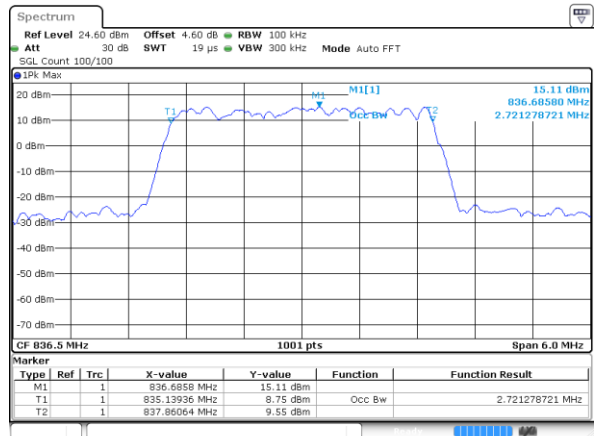
Date: 31 DEC 2019 10:12:13

Middle Channel / 3MHz / QPSK



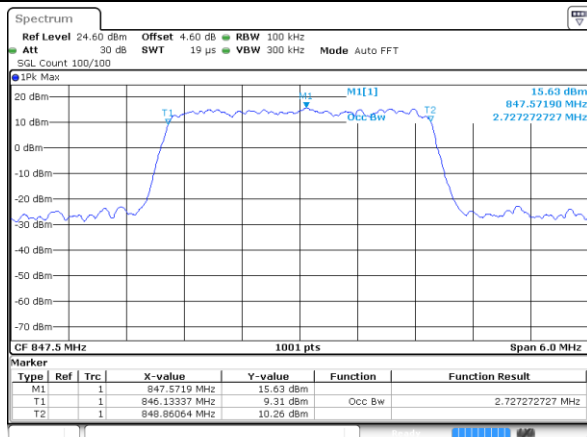
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Middle Channel / 3MHz / 16QAM



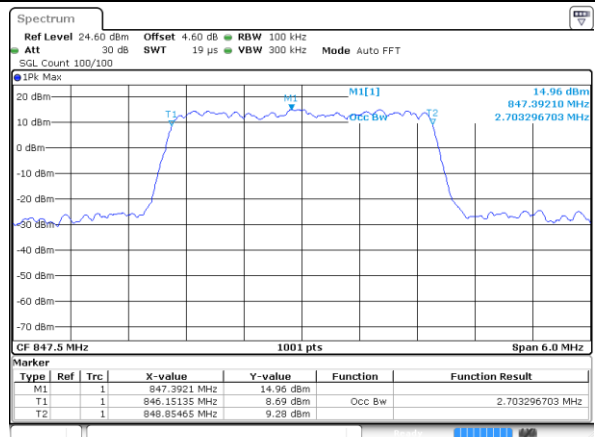
Date: 31 DEC 2019 10:52:12

Highest Channel / 3MHz / QPSK



Date: 31 DEC 2019 10:54:30

Highest Channel / 3MHz / 16QAM

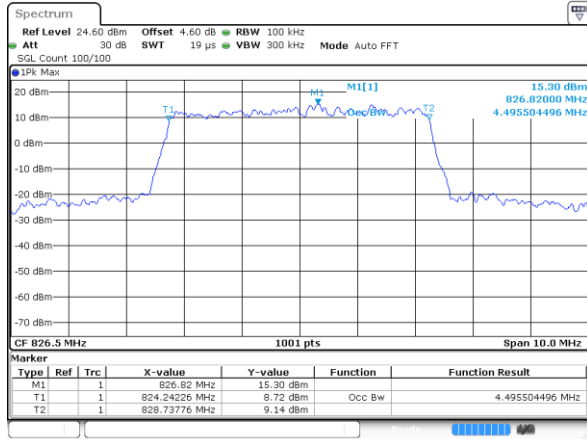


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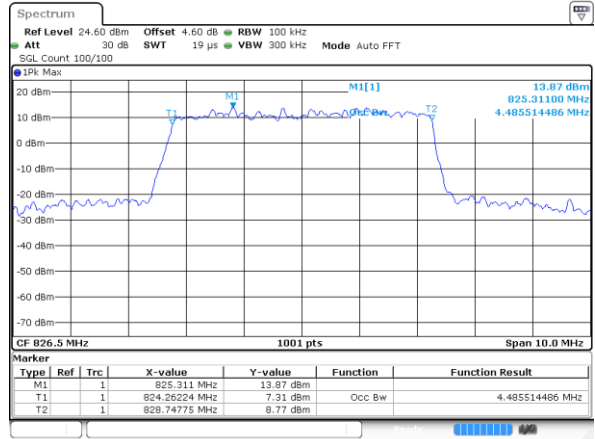


LTE Band 5

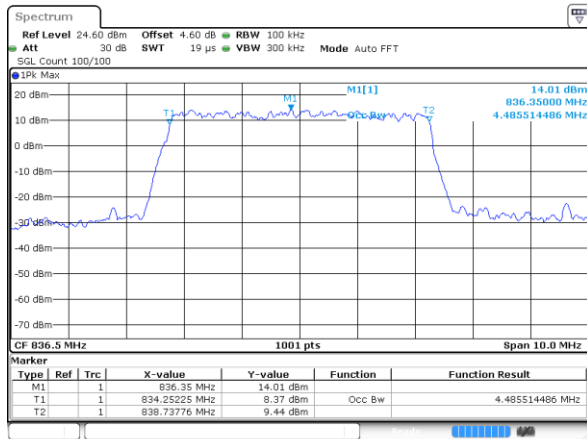
Lowest Channel / 5MHz / QPSK



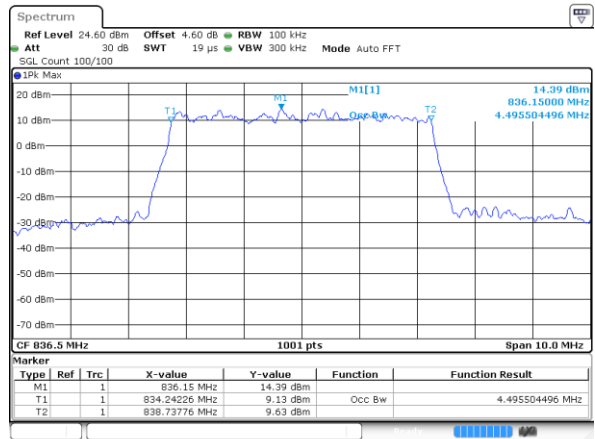
Lowest Channel / 5MHz / 16QAM



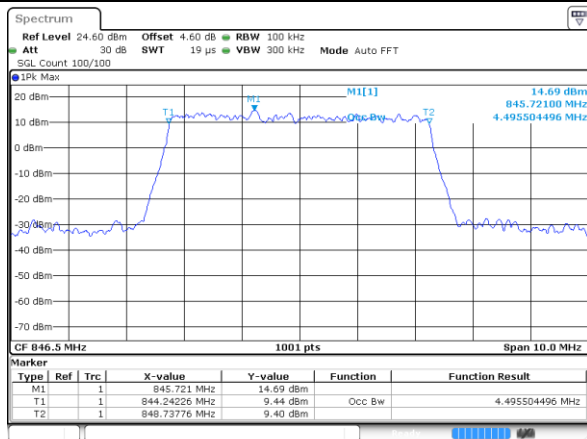
Middle Channel / 5MHz / QPSK



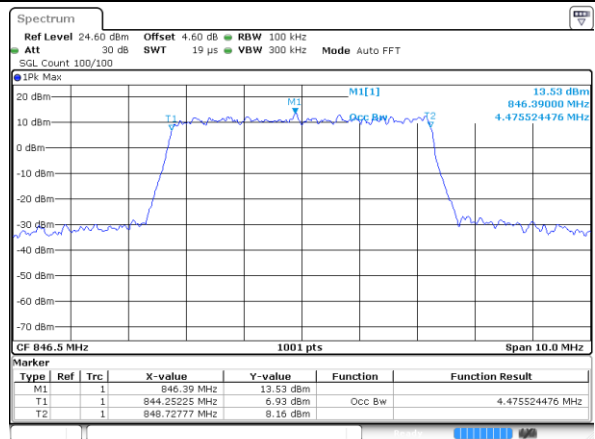
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



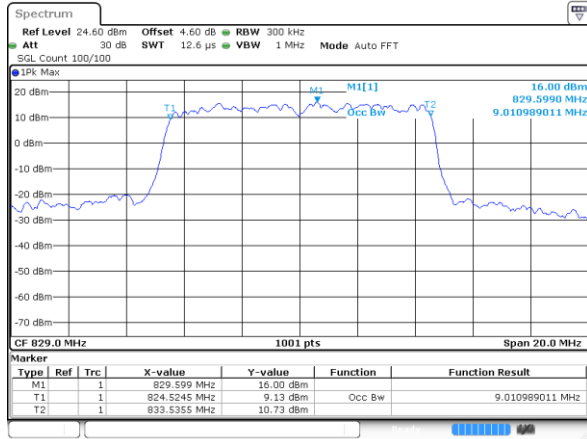
Highest Channel / 5MHz / 16QAM



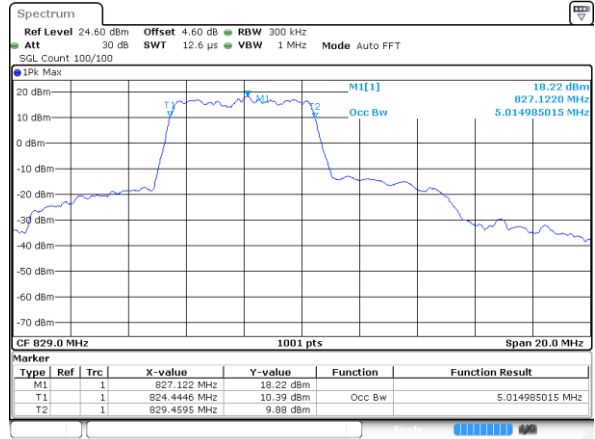


LTE Band 5

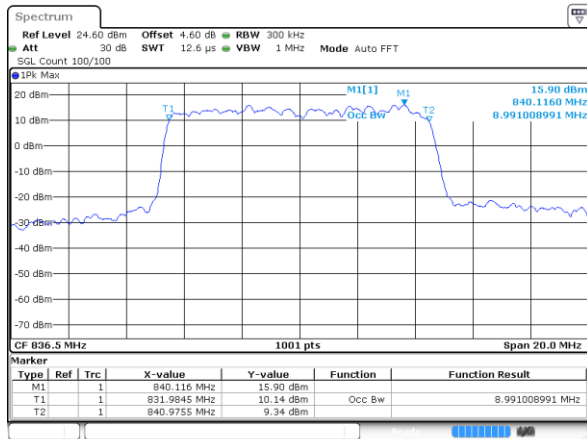
Lowest Channel / 10MHz / QPSK



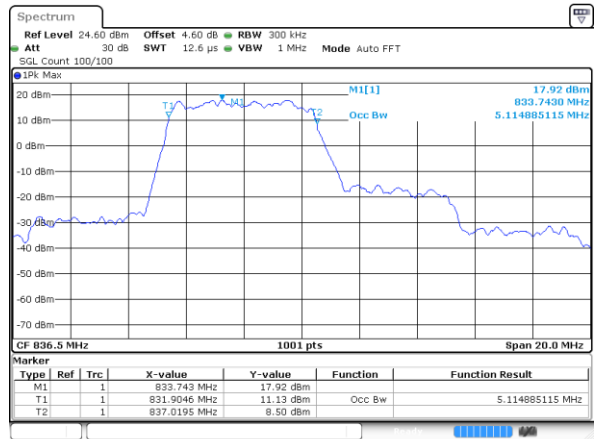
Lowest Channel / 10MHz / 16QAM



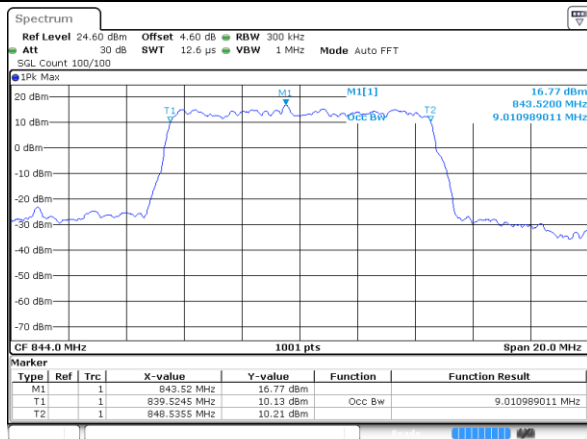
Middle Channel / 10MHz / QPSK



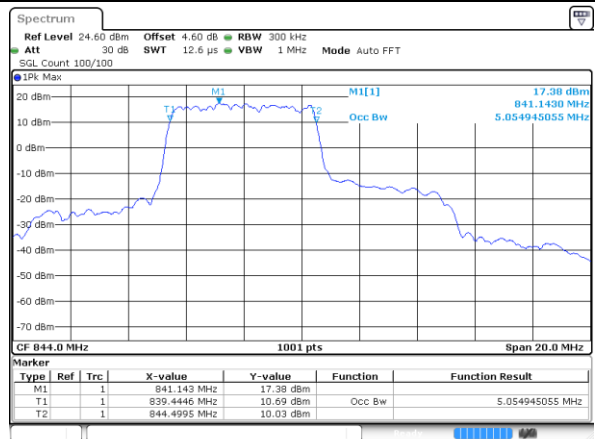
Middle Channel / 10MHz / 16QAM

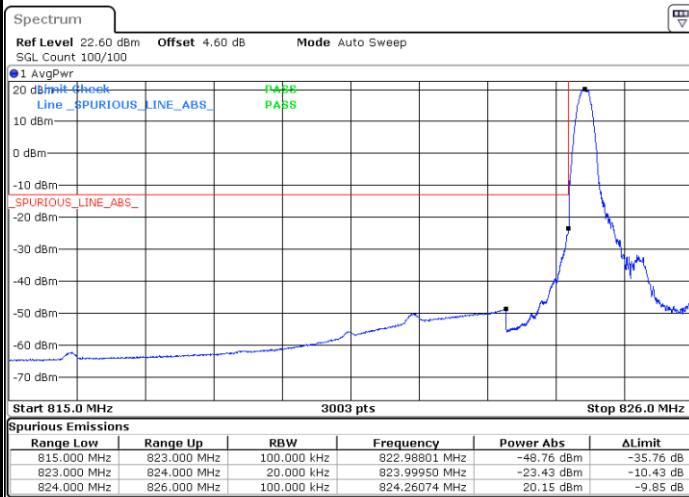
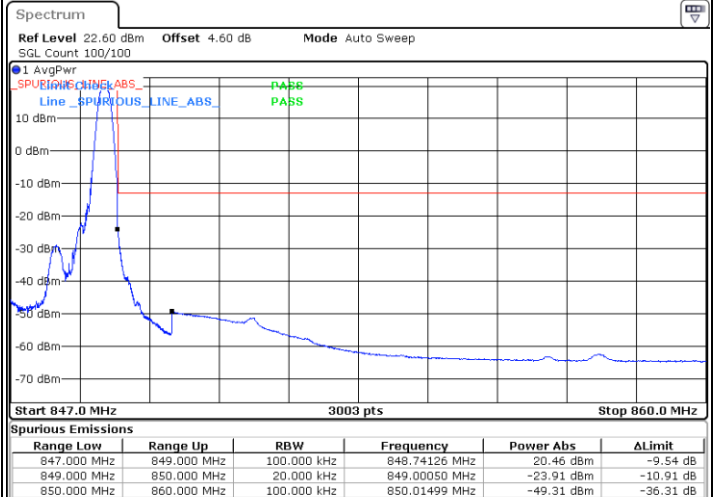
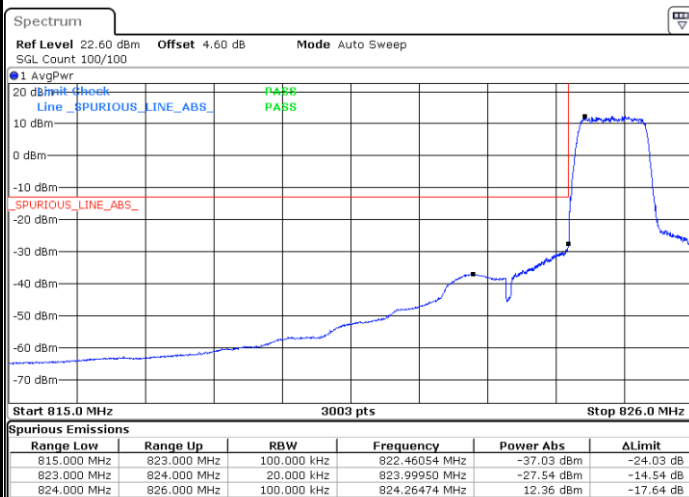
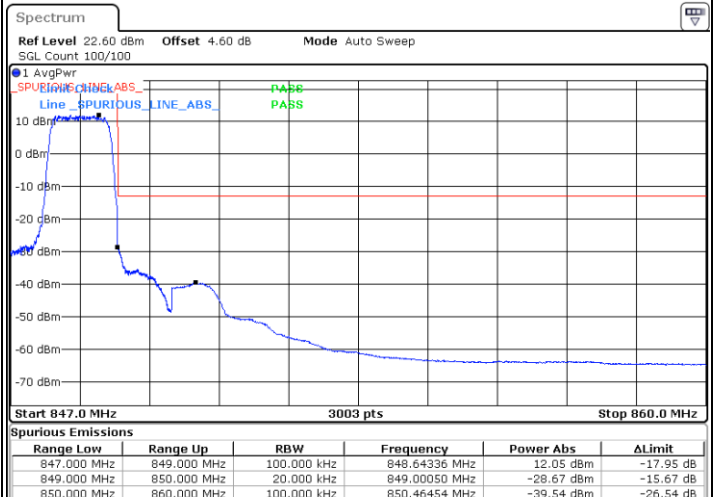


Highest Channel / 10MHz / QPSK



Highest Channel / 10MHz / 16QAM

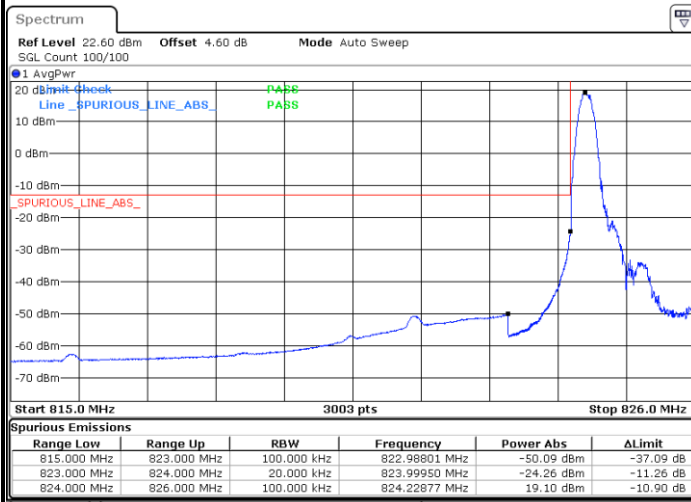


**Conducted Band Edge****LTE Band 5 / 1.4MHz / QPSK****Lowest Band Edge / 1RB****Highest Band Edge / 1RB****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**

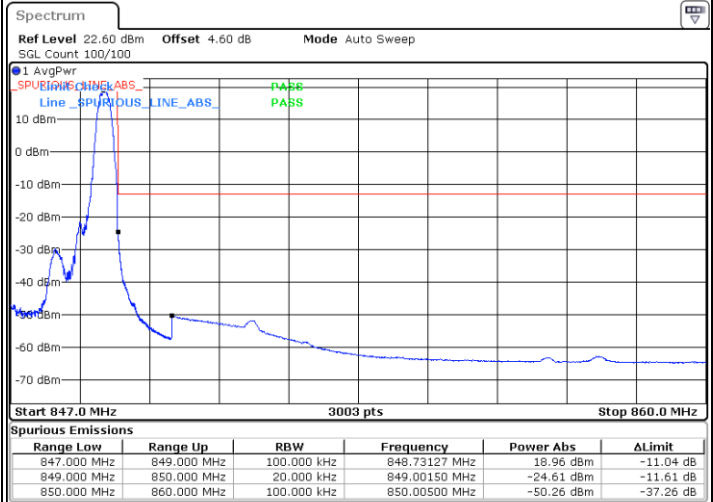


LTE Band 5 / 1.4MHz / 16QAM

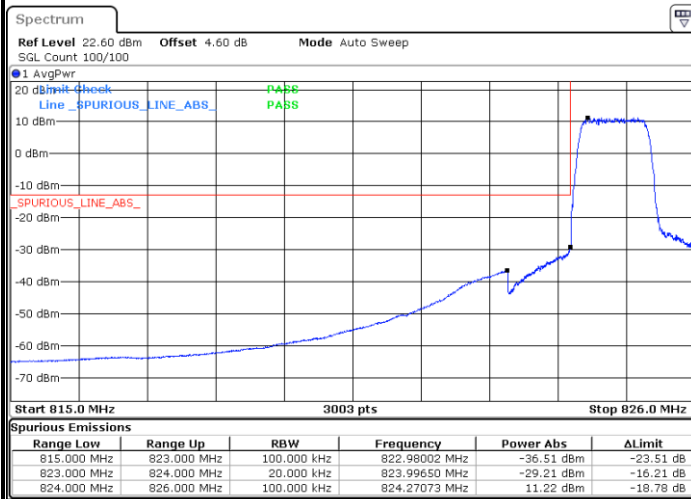
Lowest Band Edge / 1 RB



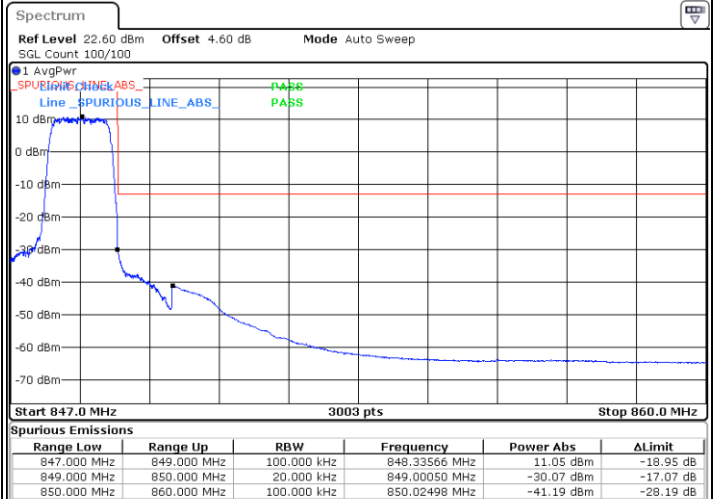
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



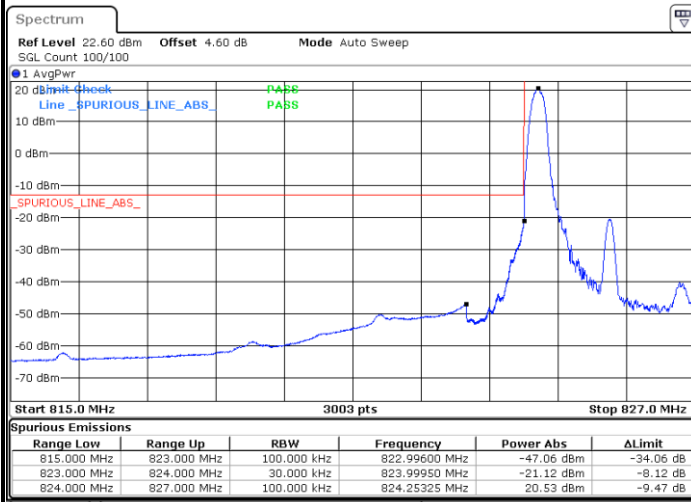
Highest Band Edge / Full RB



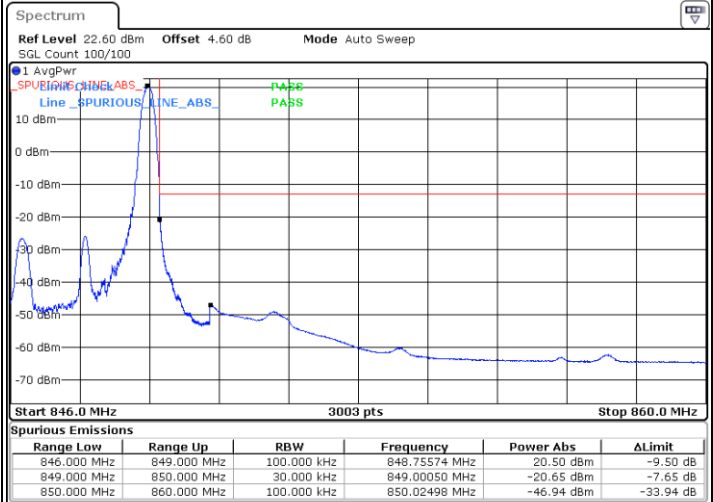


LTE Band 5 / 3MHz / QPSK

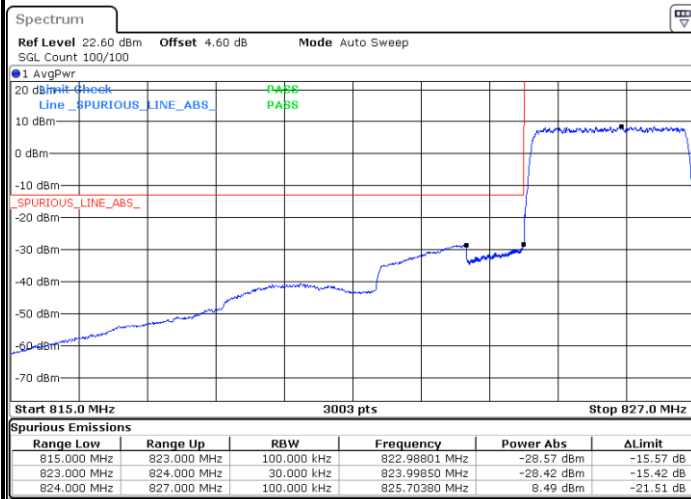
Lowest Band Edge / 1RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

