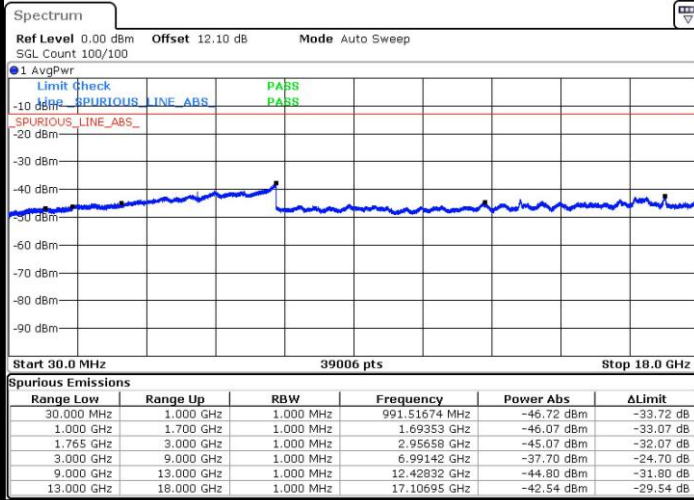




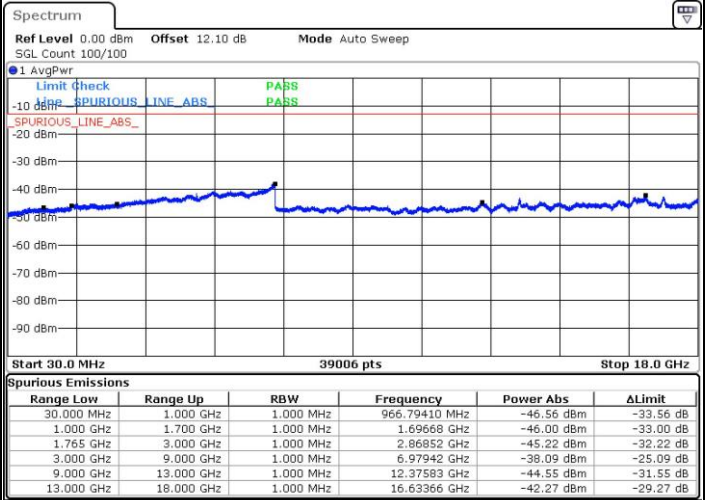
LTE Band 4 / 10MHz

Middle Channel / QPSK



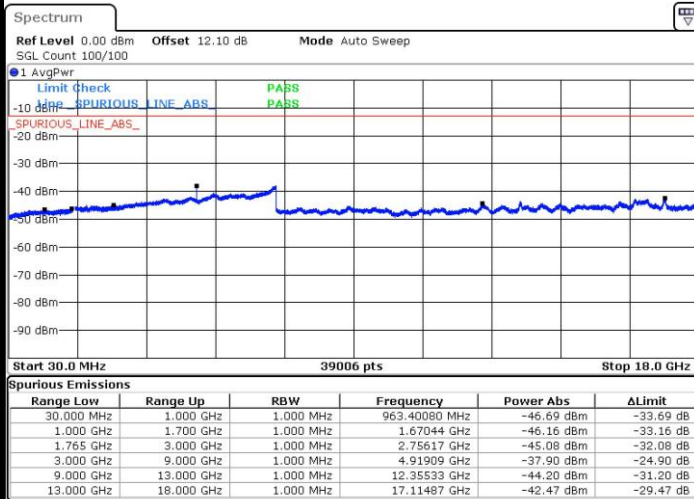
Date: 5 JUN. 2019 21:47:42

Middle Channel / 16QAM



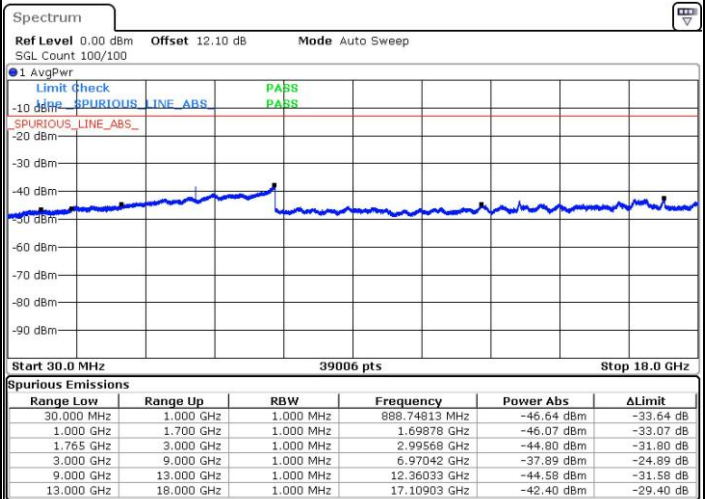
Date: 5 JUN. 2019 21:48:33

Highest Channel / QPSK



Date: 5 JUN. 2019 21:52:19

Highest Channel / 16QAM

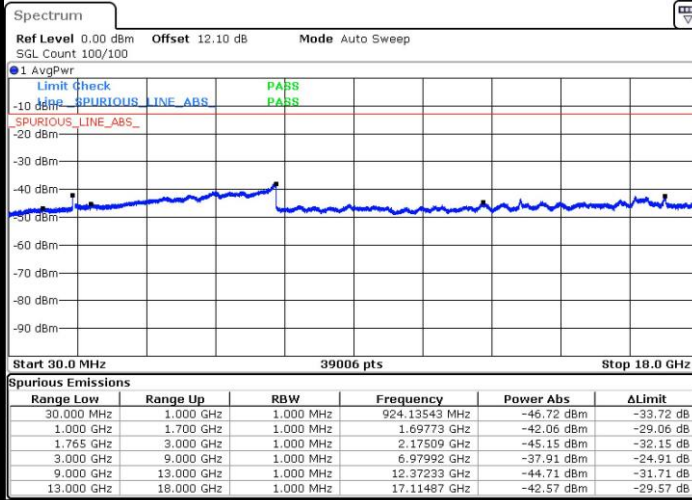


Date: 5 JUN. 2019 21:53:07



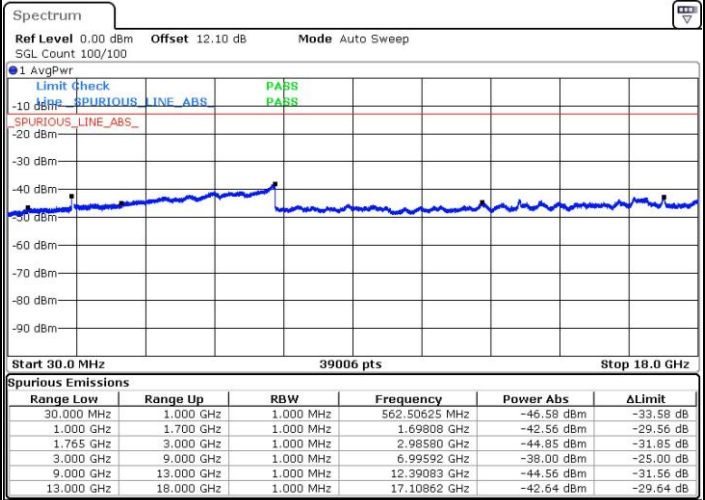
LTE Band 4 / 15MHz

Lowest Channel / QPSK



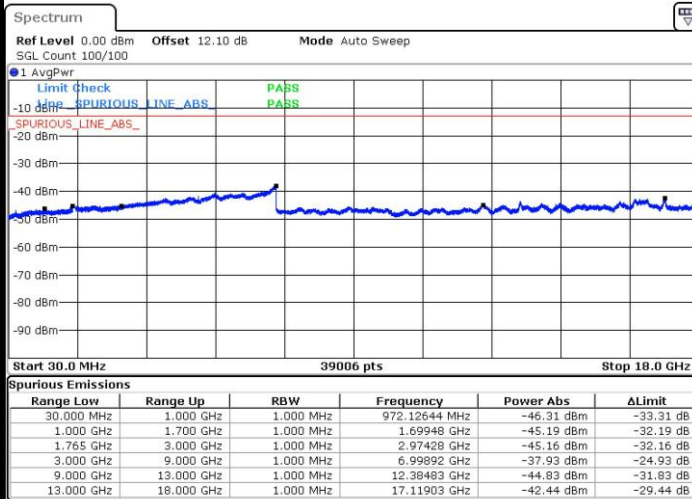
Date: 5 JUN. 2019 21:56:50

Lowest Channel / 16QAM



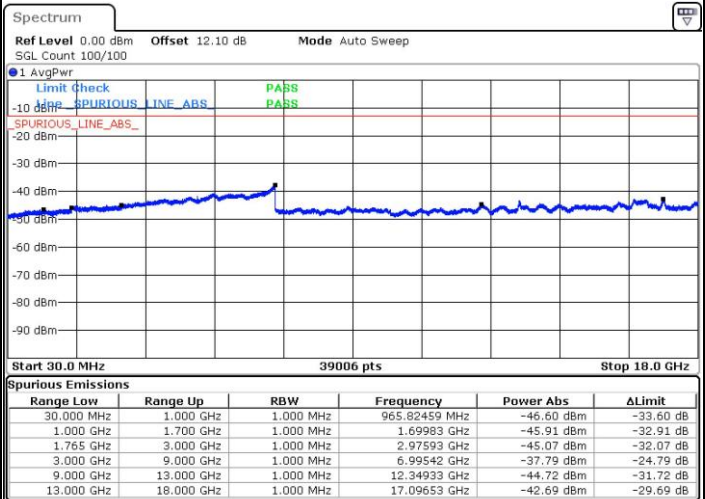
Date: 5 JUN. 2019 21:57:41

Middle Channel / QPSK



Date: 5 JUN. 2019 21:59:21

Middle Channel / 16QAM

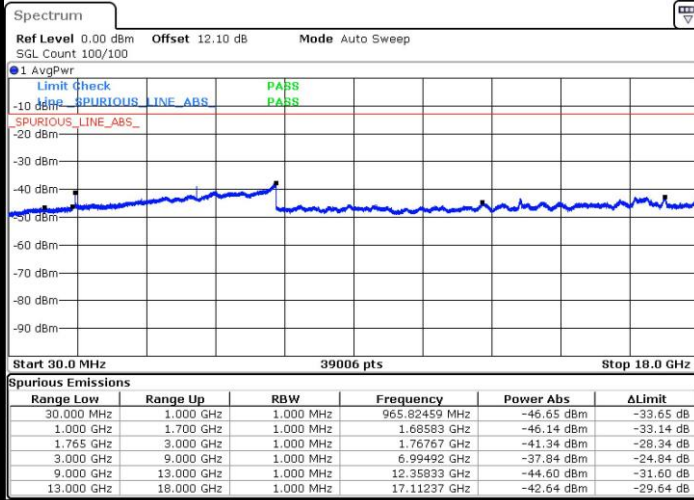


Date: 5 JUN. 2019 22:00:11



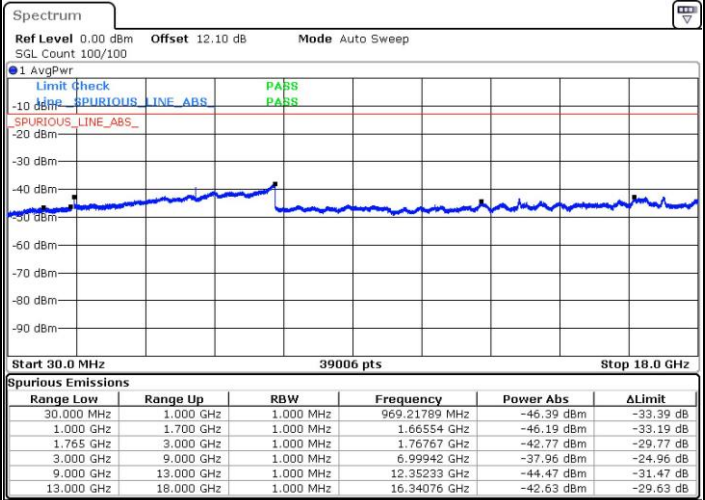
LTE Band 4 / 15MHz

Highest Channel / QPSK



Date: 5 JUN. 2019 22:03:53

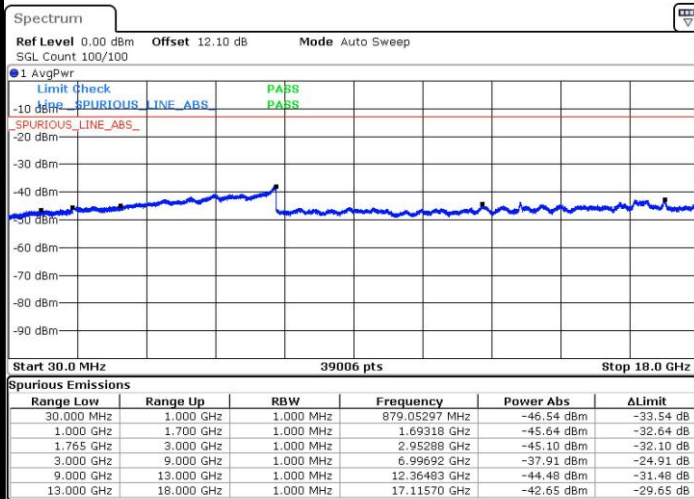
Highest Channel / 16QAM



Date: 5 JUN. 2019 22:04:45

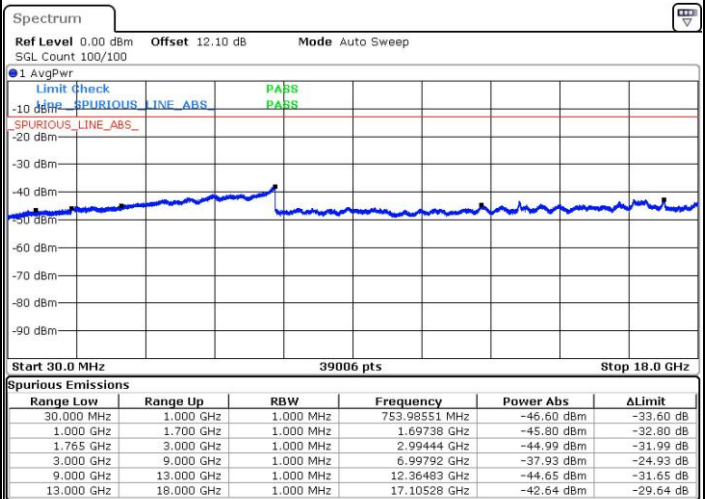
LTE Band 4 / 20MHz

Lowest Channel / QPSK



Date: 5 JUN. 2019 22:08:27

Lowest Channel / 16QAM

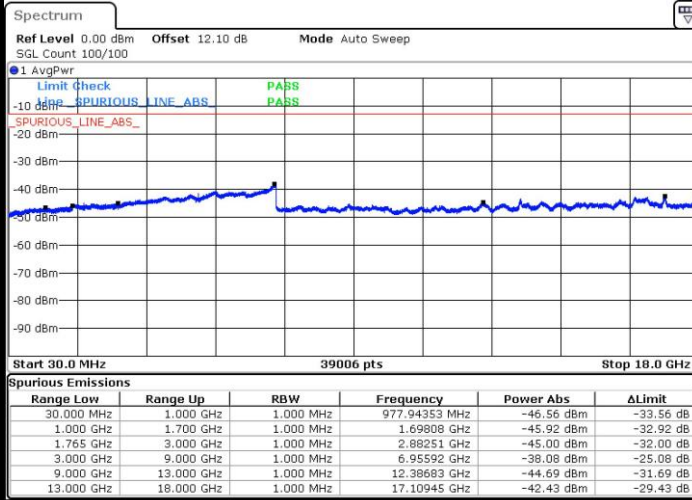


Date: 5 JUN. 2019 22:09:19



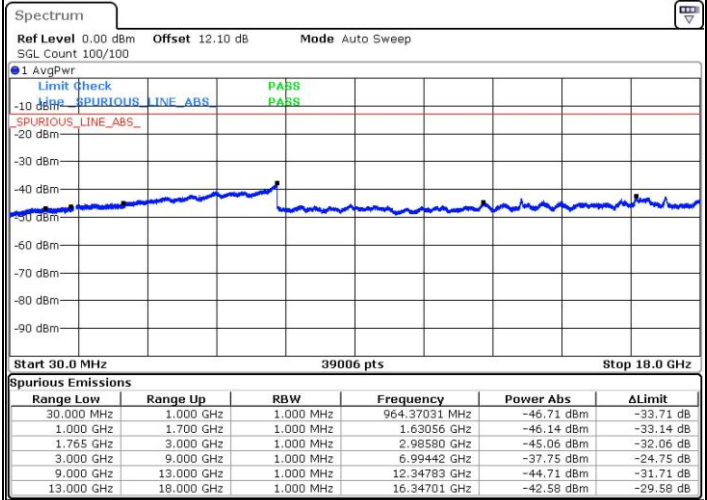
LTE Band 4 / 20MHz

Middle Channel / QPSK



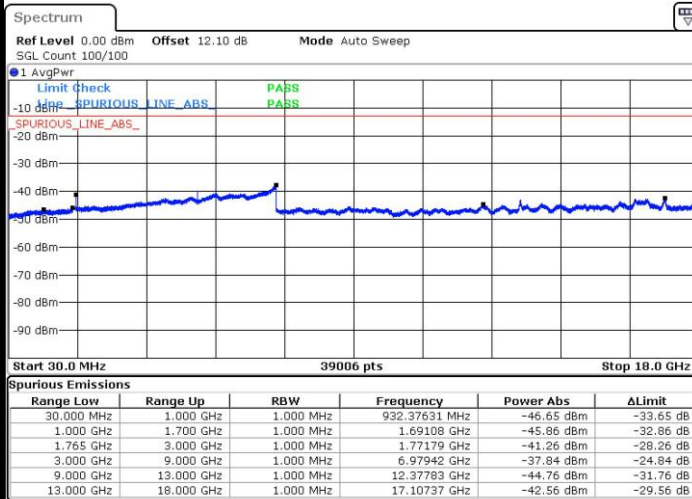
Date: 5 JUN. 2019 22:10:57

Middle Channel / 16QAM



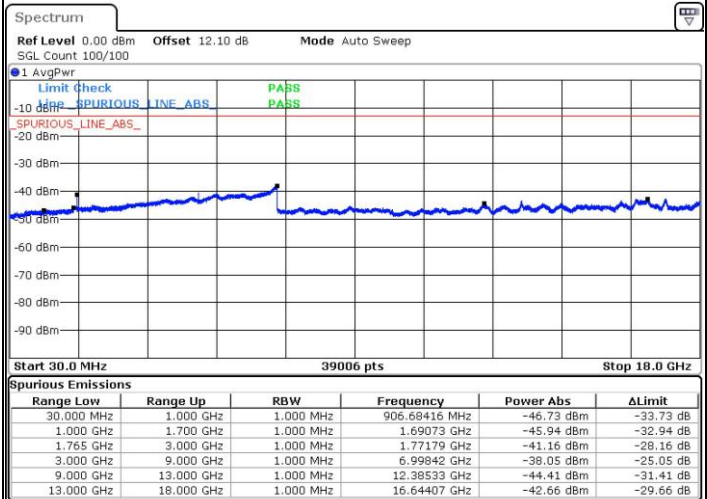
Date: 5 JUN. 2019 22:11:47

Highest Channel / QPSK



Date: 5 JUN. 2019 22:15:29

Highest Channel / 16QAM

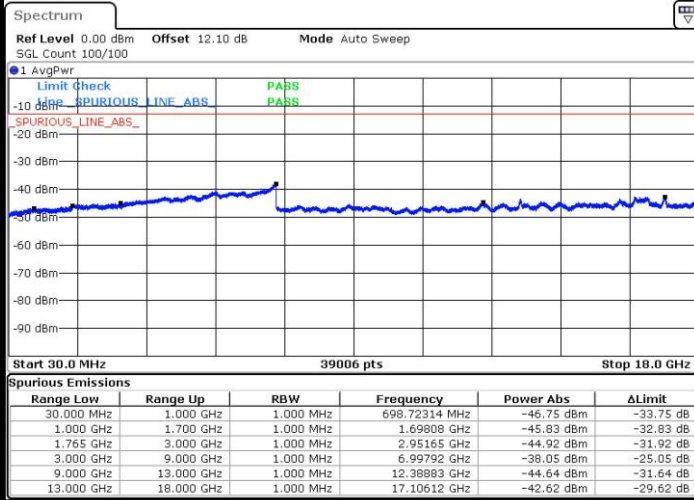


Date: 5 JUN. 2019 22:16:20



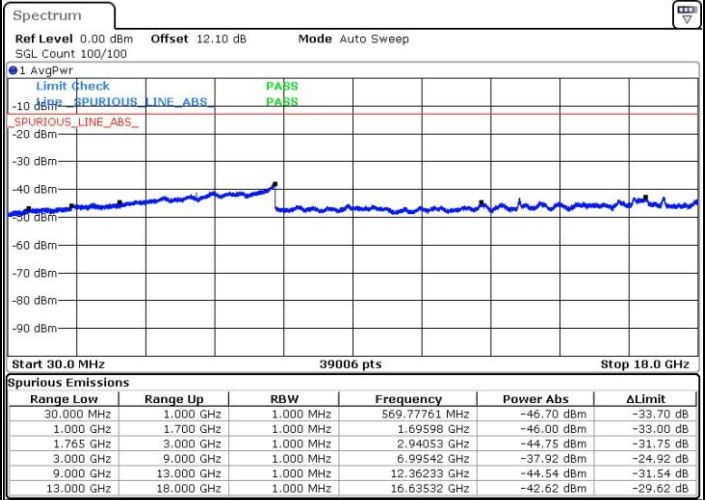
LTE Band 4 / 1.4MHz

Lowest Channel / 64QAM



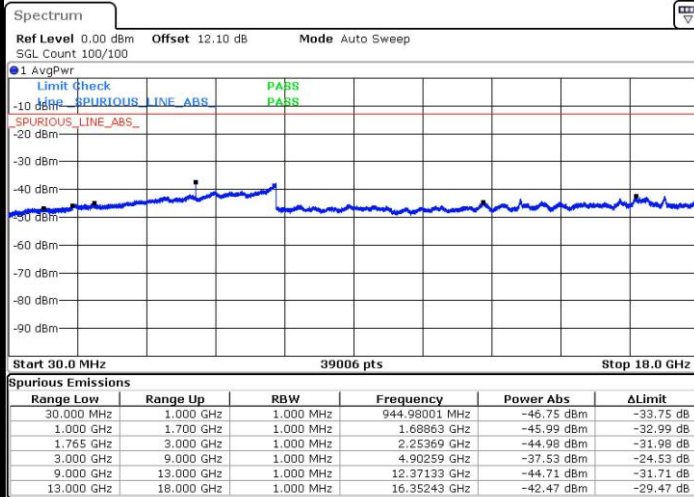
Date: 5 JUN. 2019 22:52:09

Middle Channel / 64QAM



Date: 5 JUN. 2019 22:53:23

Highest Channel / 64QAM

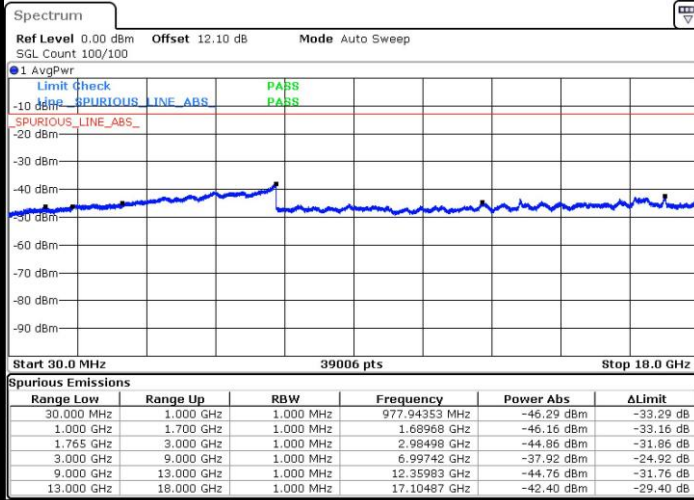


Date: 5 JUN. 2019 22:56:29



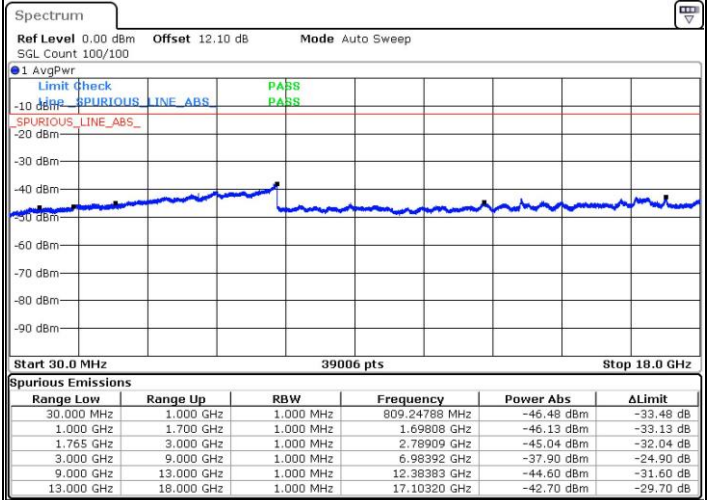
LTE Band 4 / 3MHz

Lowest Channel / 64QAM



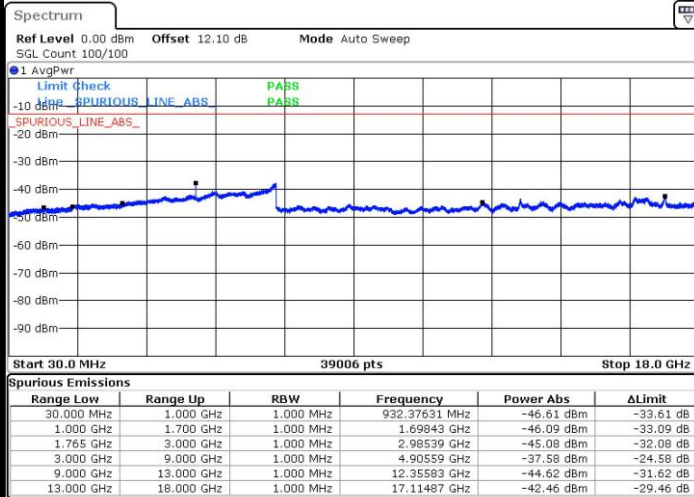
Date: 5 JUN. 2019 22:18:47

Middle Channel / 64QAM



Date: 5 JUN. 2019 22:20:02

Highest Channel / 64QAM

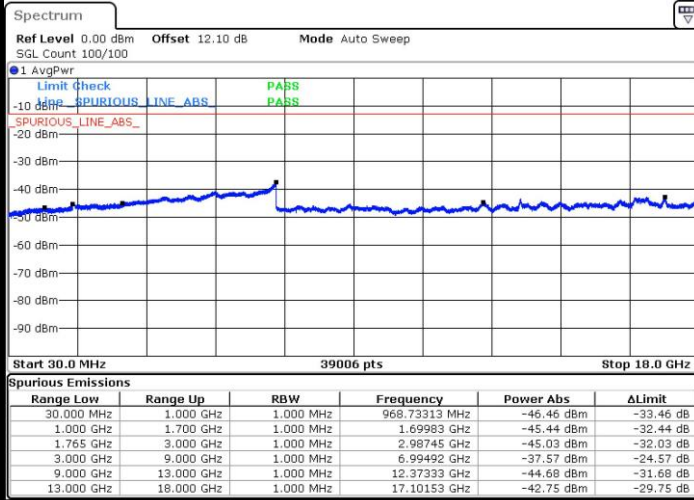


Date: 5 JUN. 2019 22:22:29



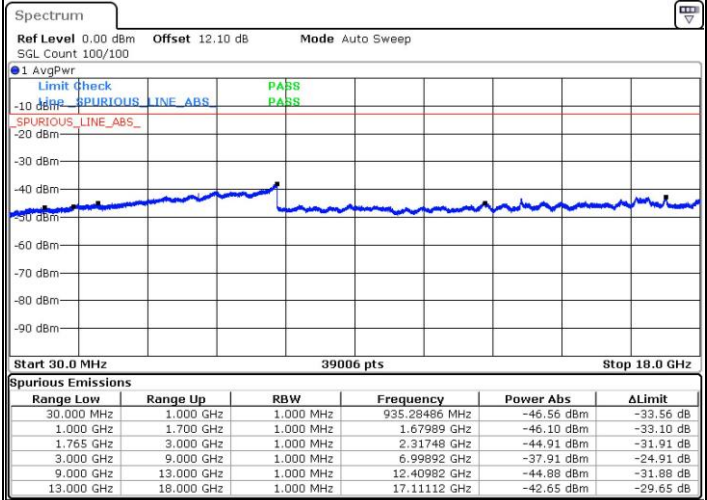
LTE Band 4 / 5MHz

Lowest Channel / 64QAM



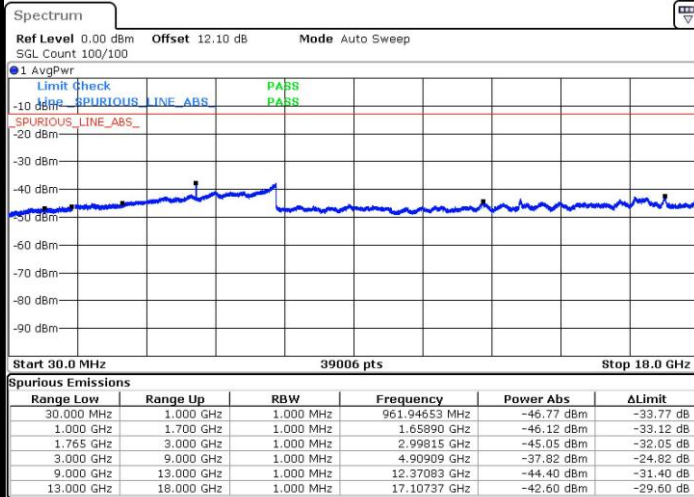
Date: 5 JUN. 2019 22:24:46

Middle Channel / 64QAM



Date: 5 JUN. 2019 22:26:01

Highest Channel / 64QAM

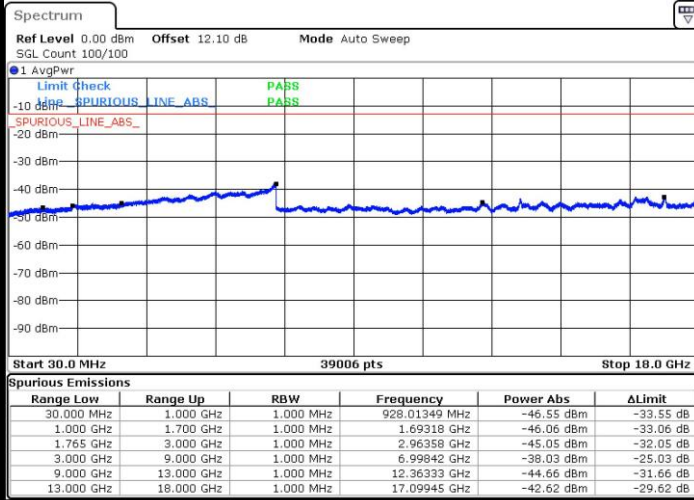


Date: 5 JUN. 2019 22:28:17



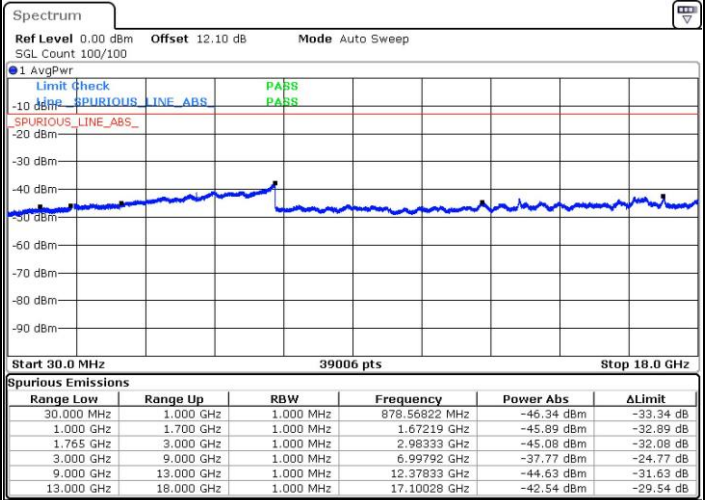
LTE Band 4 / 10MHz

Lowest Channel / 64QAM



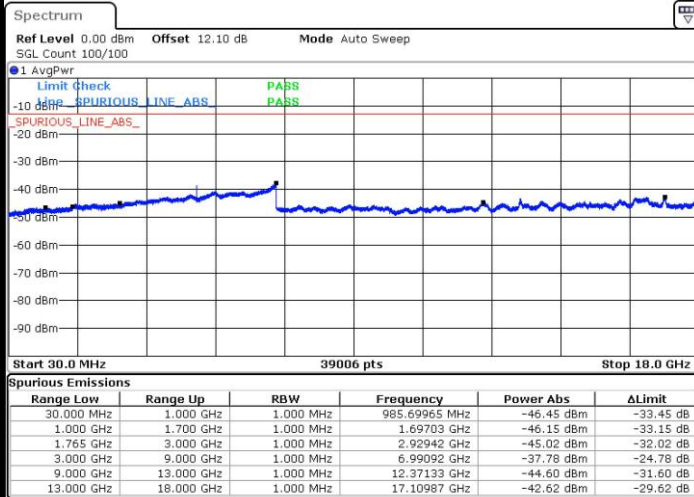
Date: 5 JUN. 2019 22:30:33

Middle Channel / 64QAM



Date: 5 JUN. 2019 22:31:48

Highest Channel / 64QAM

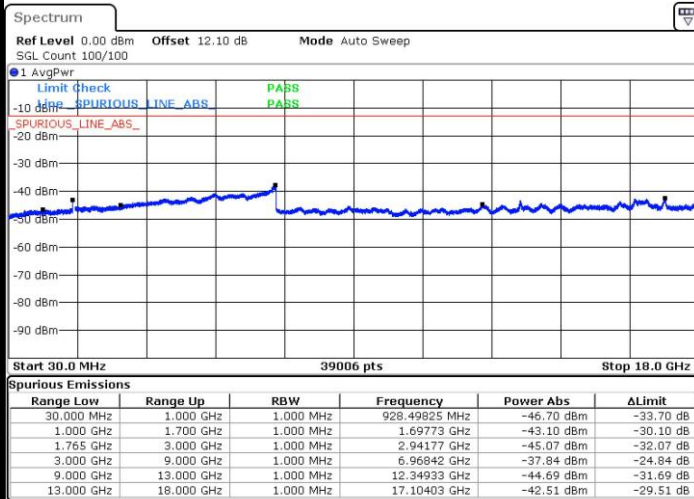


Date: 5 JUN. 2019 22:34:05



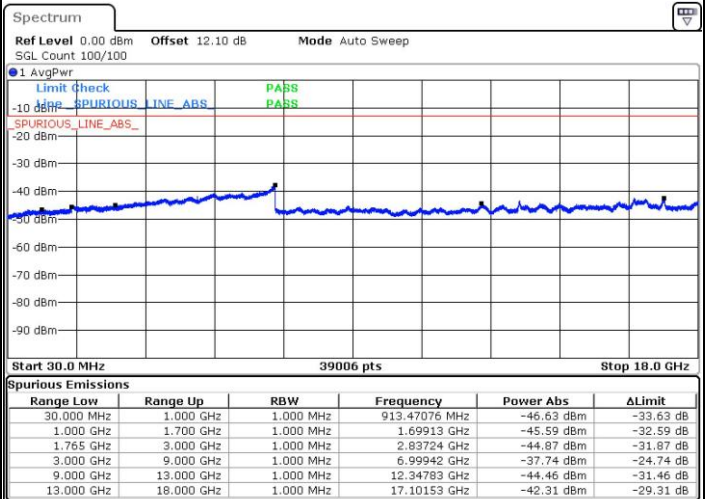
LTE Band 4 / 15MHz

Lowest Channel / 64QAM



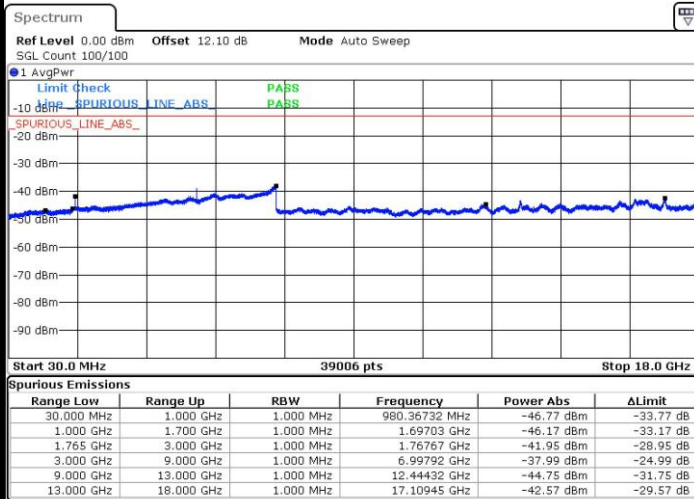
Date: 5 JUN.2019 22:36:21

Middle Channel / 64QAM



Date: 5 JUN.2019 22:37:36

Highest Channel / 64QAM

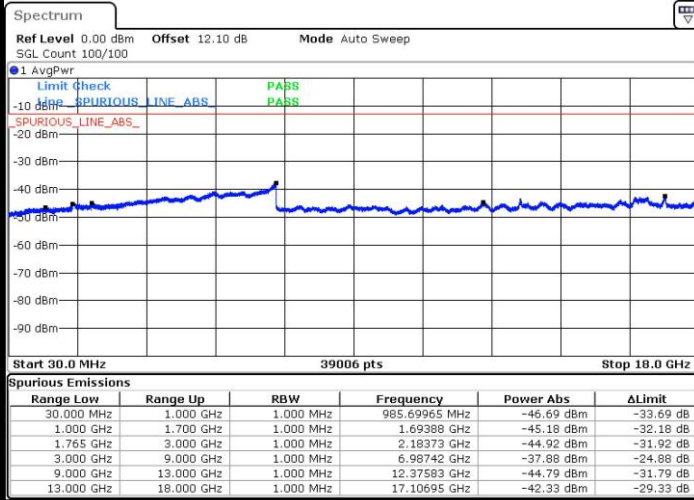


Date: 5 JUN.2019 22:39:52



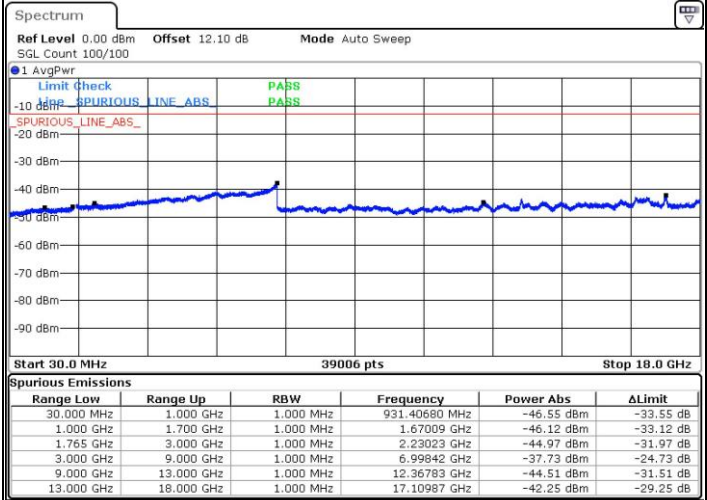
LTE Band 4 / 20MHz

Lowest Channel / 64QAM



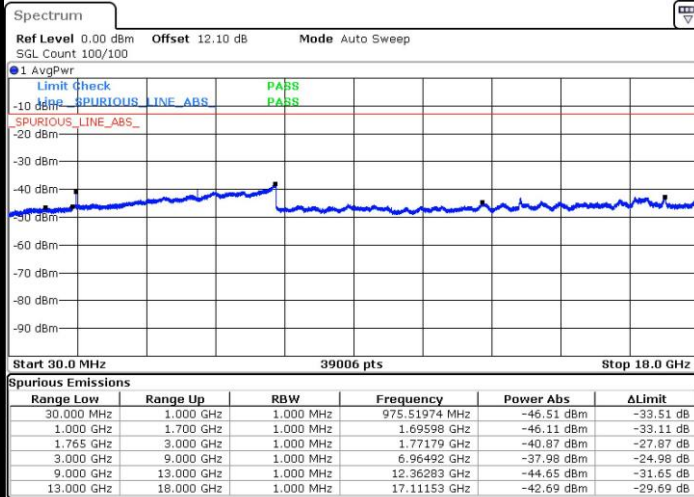
Date: 5 JUN. 2019 22:42:09

Middle Channel / 64QAM



Date: 5 JUN. 2019 22:43:24

Highest Channel / 64QAM



Date: 5 JUN. 2019 22:45:40

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	0.0002	PASS
40	Normal Voltage	0.0009	
30	Normal Voltage	0.0014	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0040	
0	Normal Voltage	0.0048	
-10	Normal Voltage	0.0002	
-20	Normal Voltage	0.0004	
-30	Normal Voltage	0.0006	
20	Maximum Voltage	0.0012	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0025	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.65 V. ; Maximum Voltage =4.25 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	3.57	4.78	5.28	5.88	PASS
Middle CH	3.57	4.67	5.16	5.94	
Highest CH	3.62	4.70	5.54	5.94	
Mode	LTE Band 5 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.49	6.58	-	-	PASS
Middle CH	6.61	6.55	-	-	
Highest CH	6.93	6.61	-	-	



LTE Band 5 / 10MHz / QPSK

Lowest Channel / 1RB



Lowest Channel / Full RB



Middle Channel / 1RB



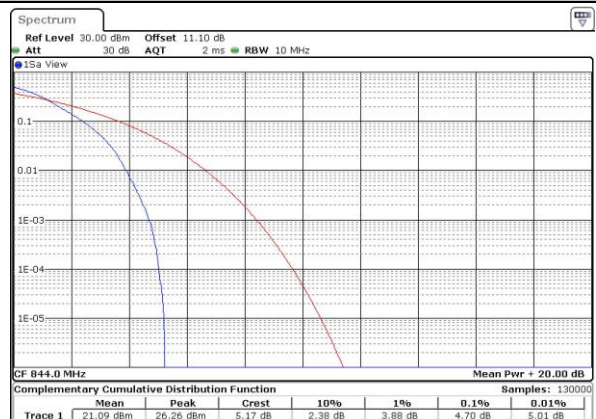
Middle Channel / Full RB

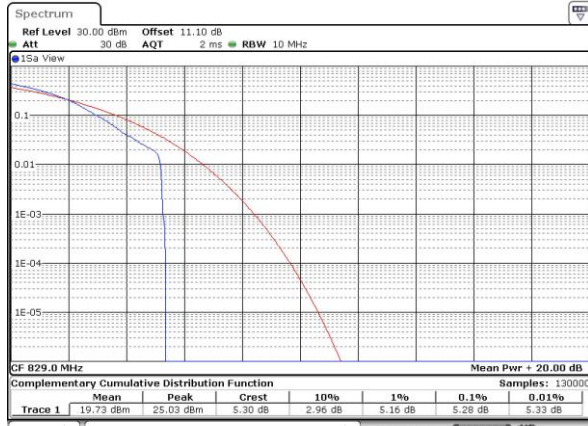


Highest Channel / 1RB

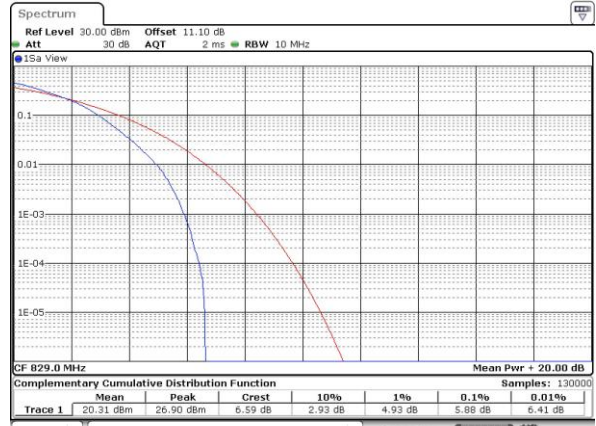


Highest Channel / Full RB

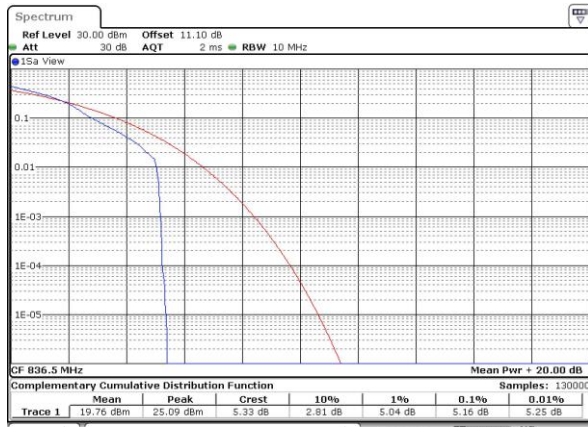


LTE Band 5 / 10MHz / 16QAM
Lowest Channel / 1RB


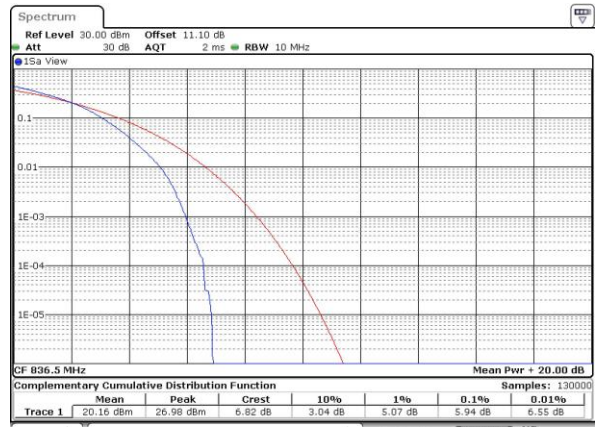
Date: 12 JUN 2019 01:39:24

Lowest Channel / Full RB


Date: 12 JUN 2019 01:39:39

Middle Channel / 1RB


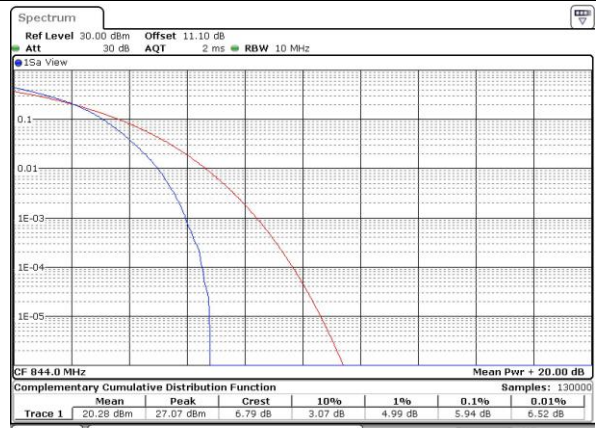
Date: 12 JUN 2019 01:39:53

Middle Channel / Full RB


Date: 12 JUN 2019 01:40:05

Highest Channel / 1RB


Date: 12 JUN 2019 01:40:17

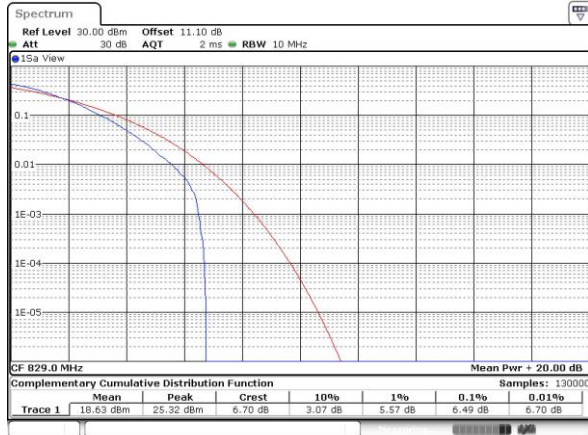
Highest Channel / Full RB


Date: 12 JUN 2019 01:40:31

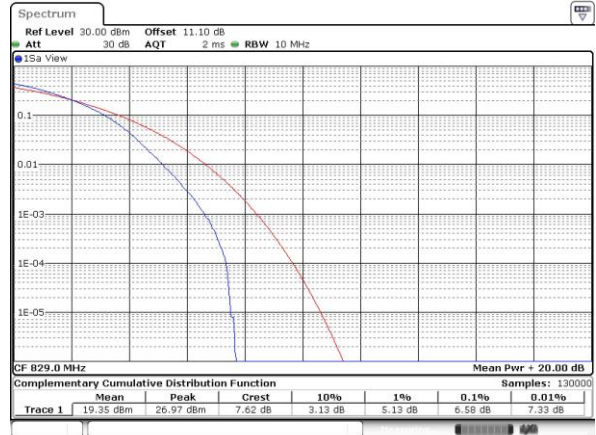


LTE Band 5 / 10MHz / 64QAM

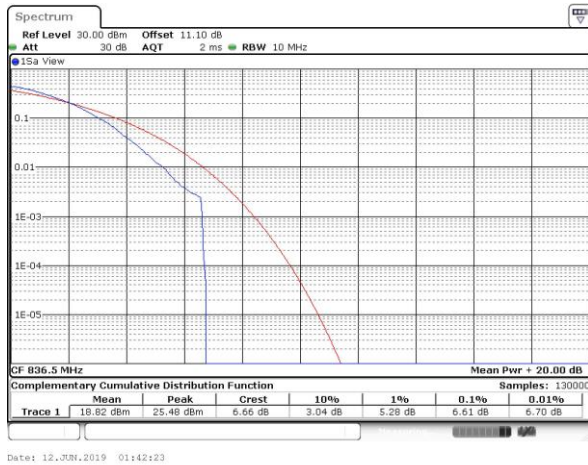
Lowest Channel / 1RB



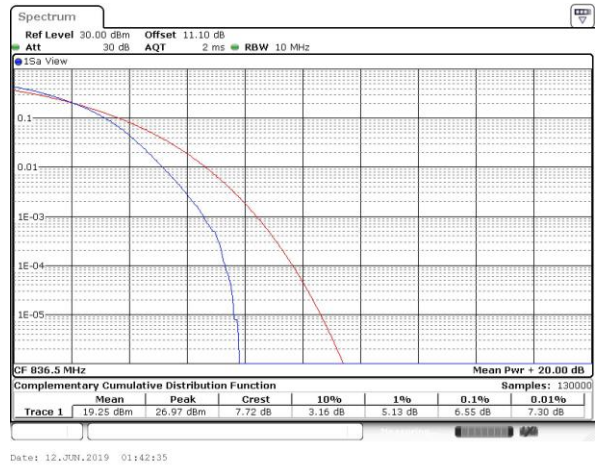
Lowest Channel / Full RB



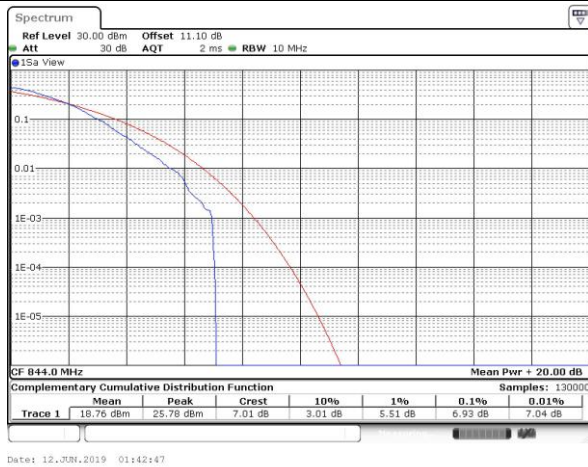
Middle Channel / 1RB



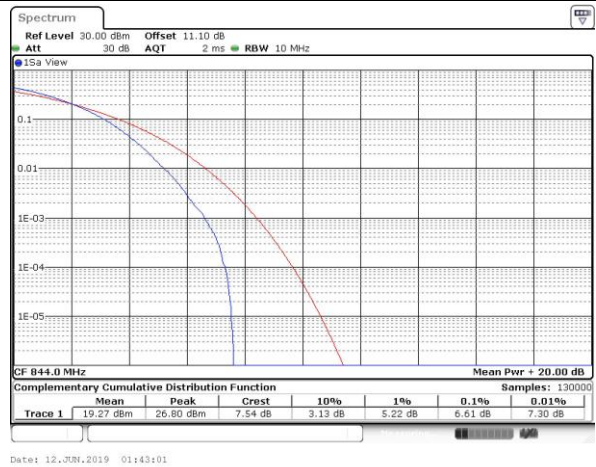
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB



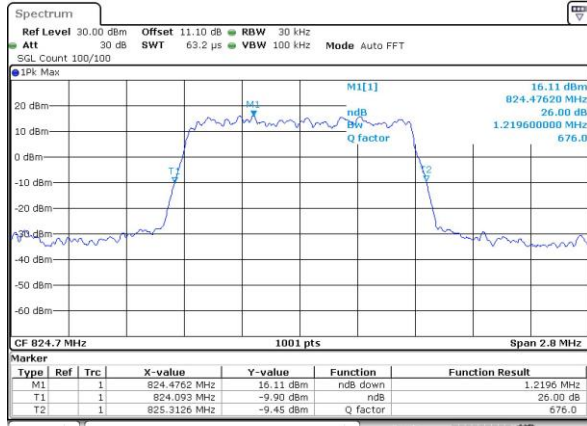
**26dB Bandwidth**

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	1.22	1.23	3.03	3.01	4.92	4.96	9.83	9.79	-	-	-	-
Middle CH	1.23	1.22	3.02	3.02	4.93	4.77	9.73	9.89	-	-	-	-
Highest CH	1.22	1.23	2.97	3.02	4.92	4.92	9.79	9.85	-	-	-	-
Mode	LTE Band 5 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.24	-	3.02	-	4.85	-	9.79	-	-	-	-	-
Middle CH	1.23	-	3.03	-	4.88	-	9.77	-	-	-	-	-
Highest CH	1.23	-	3.03	-	4.88	-	9.79	-	-	-	-	-



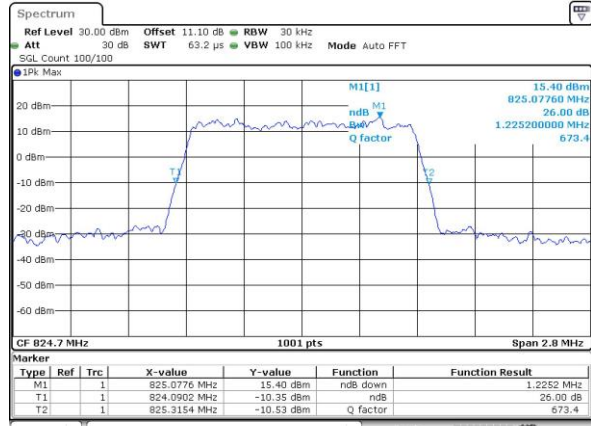
LTE Band 5

Lowest Channel / 1.4MHz / QPSK



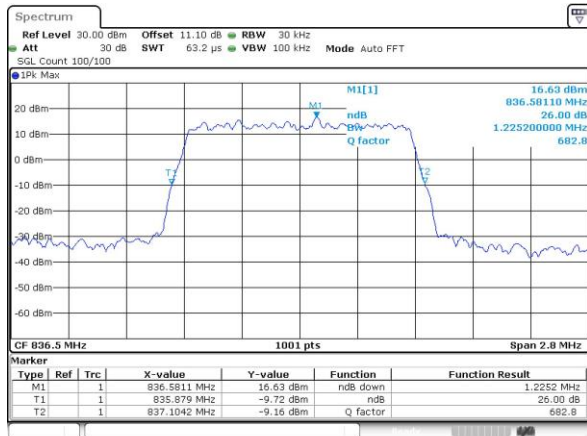
Date: 6 JUN 2019 01:40:04

Lowest Channel / 1.4MHz / 16QAM



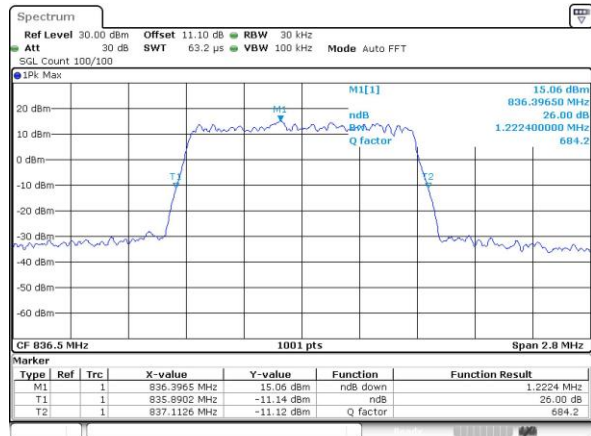
Date: 6 JUN 2019 01:39:51

Middle Channel / 1.4MHz / QPSK



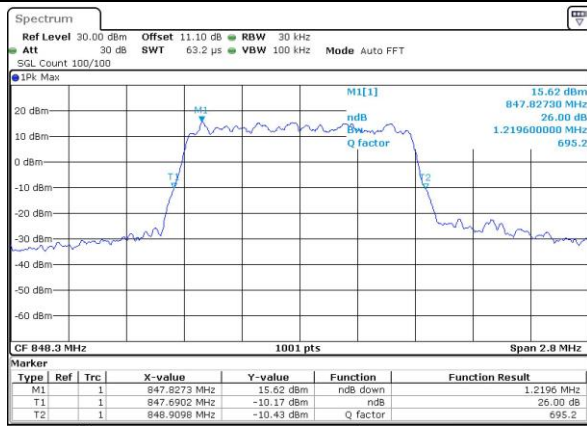
Date: 6 JUN 2019 01:49:20

Middle Channel / 1.4MHz / 16QAM



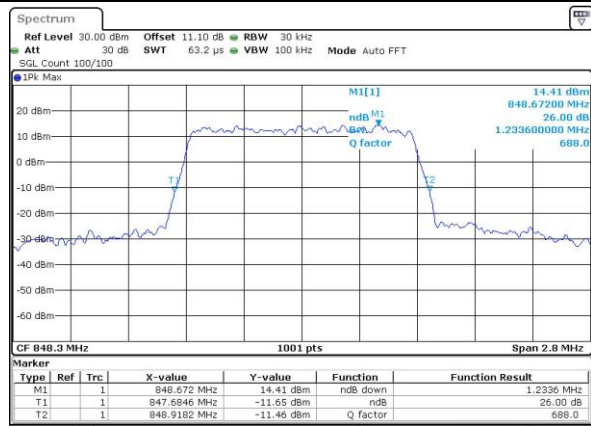
Date: 6 JUN 2019 01:49:41

Highest Channel / 1.4MHz / QPSK



Date: 6 JUN 2019 01:52:24

Highest Channel / 1.4MHz / 16QAM

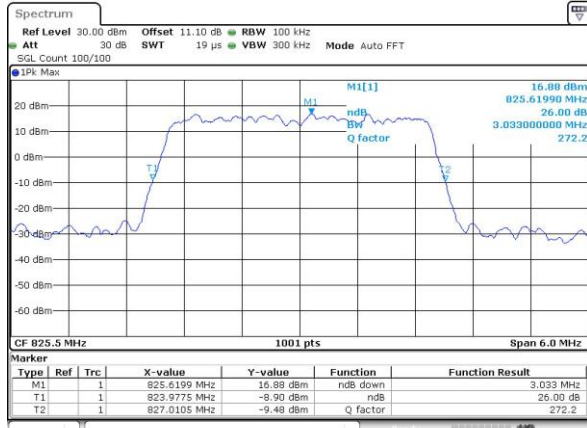


Date: 6 JUN 2019 01:52:37



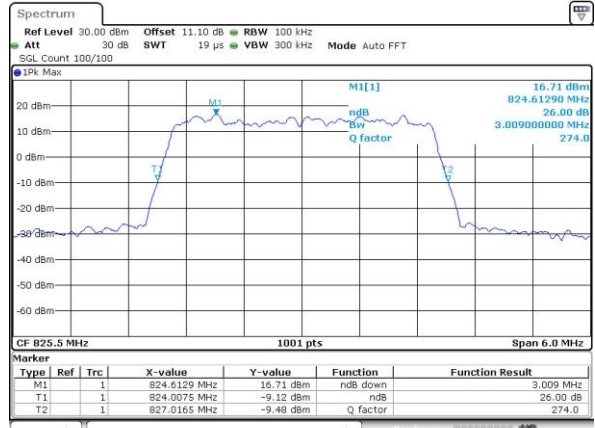
LTE Band 5

Lowest Channel / 3MHz / QPSK



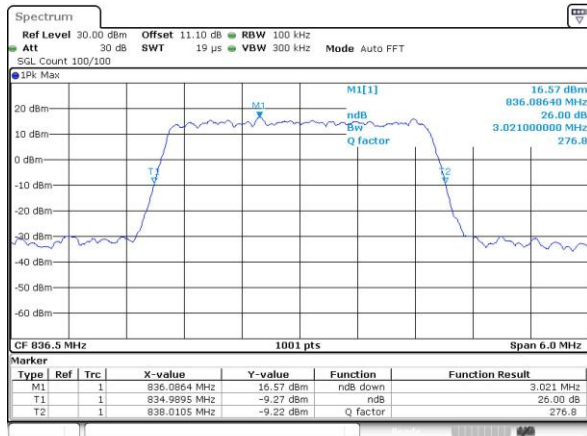
Date: 5 JUN 2019 23:48:53

Lowest Channel / 3MHz / 16QAM



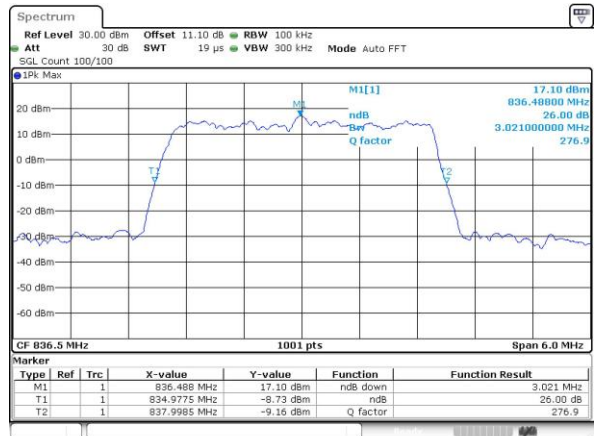
Date: 5 JUN 2019 23:49:05

Middle Channel / 3MHz / QPSK



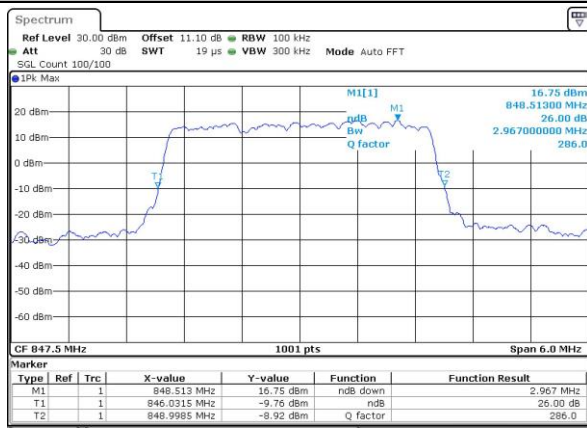
Date: 5 JUN 2019 23:58:31

Middle Channel / 3MHz / 16QAM



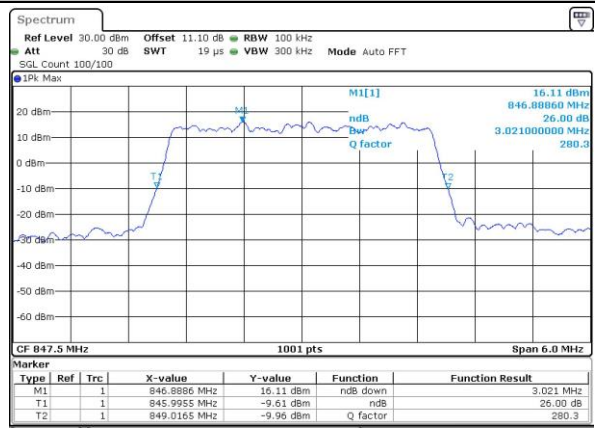
Date: 5 JUN 2019 23:58:43

Highest Channel / 3MHz / QPSK



Date: 6 JUN 2019 00:01:27

Highest Channel / 3MHz / 16QAM

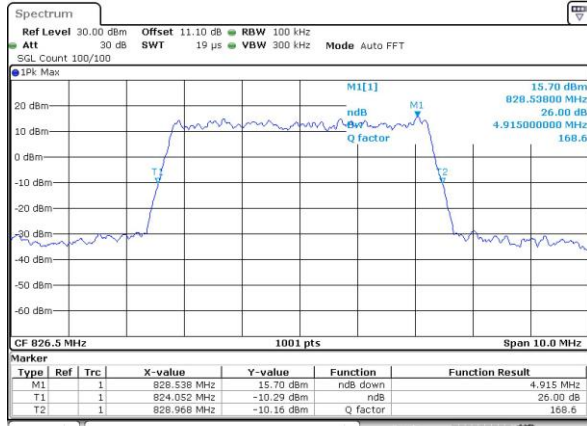


Date: 6 JUN 2019 00:01:39



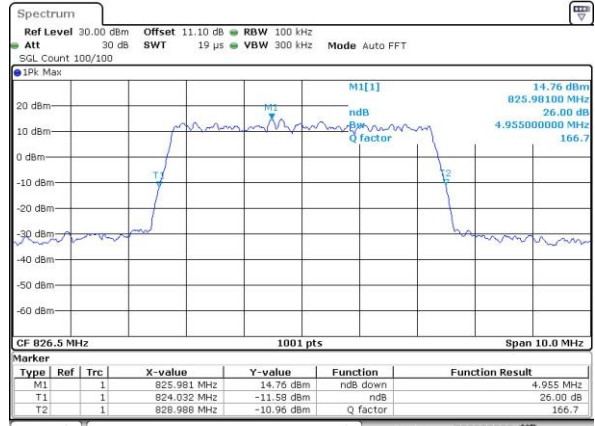
LTE Band 5

Lowest Channel / 5MHz / QPSK



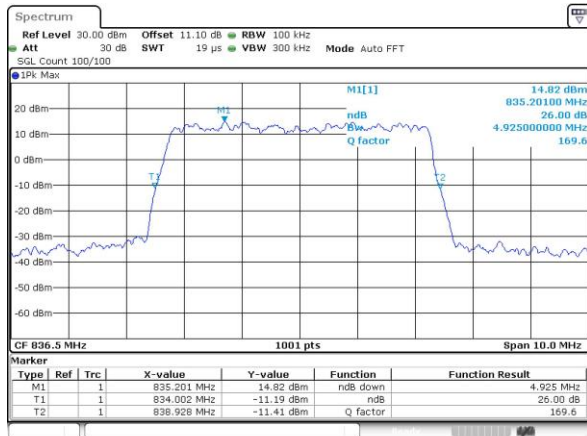
Date: 6 JUN 2019 00:11:05

Lowest Channel / 5MHz / 16QAM



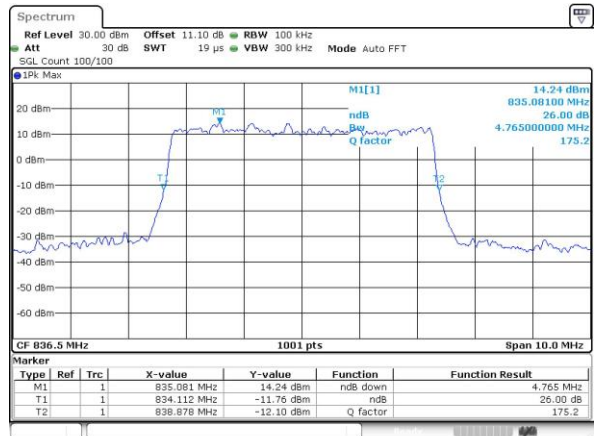
Date: 6 JUN 2019 00:11:17

Middle Channel / 5MHz / QPSK



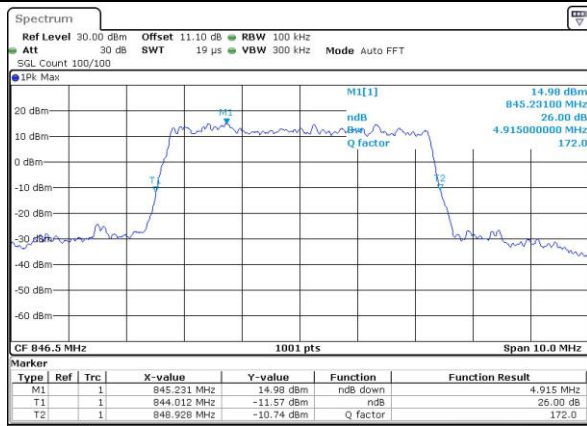
Date: 6 JUN 2019 00:20:42

Middle Channel / 5MHz / 16QAM



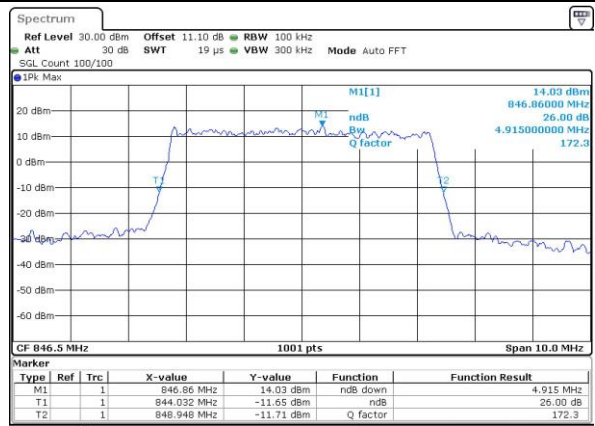
Date: 6 JUN 2019 00:20:53

Highest Channel / 5MHz / QPSK



Date: 6 JUN 2019 00:23:36

Highest Channel / 5MHz / 16QAM



Date: 6 JUN 2019 00:23:49