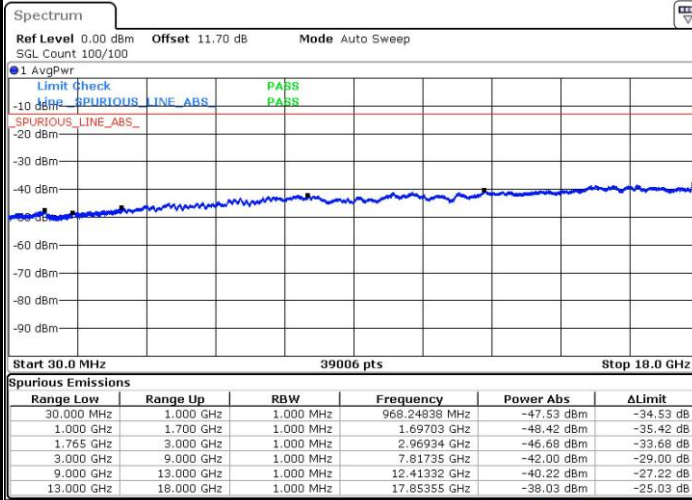




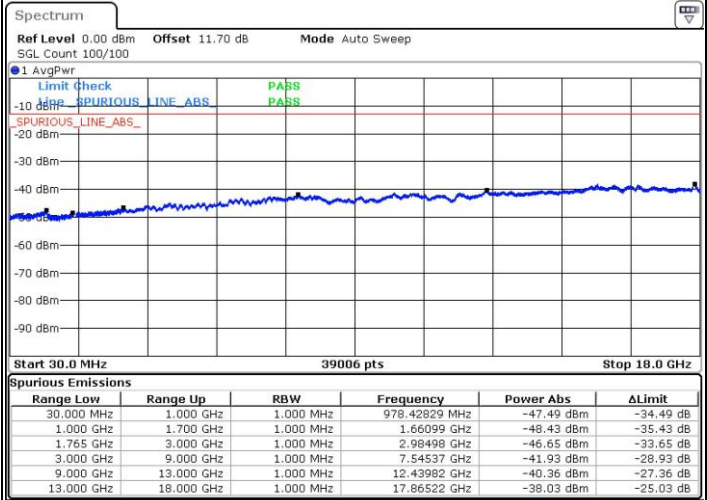
LTE Band 4 / 5MHz

Highest Channel / QPSK



Date: 24.OCT.2018 14:53:13

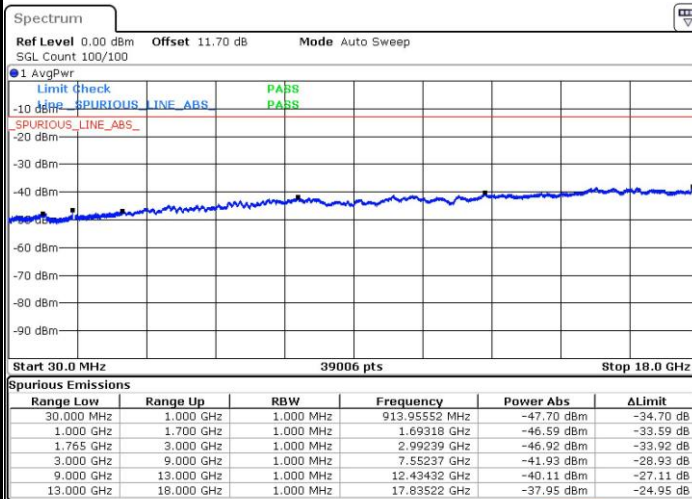
Highest Channel / 16QAM



Date: 24.OCT.2018 14:53:53

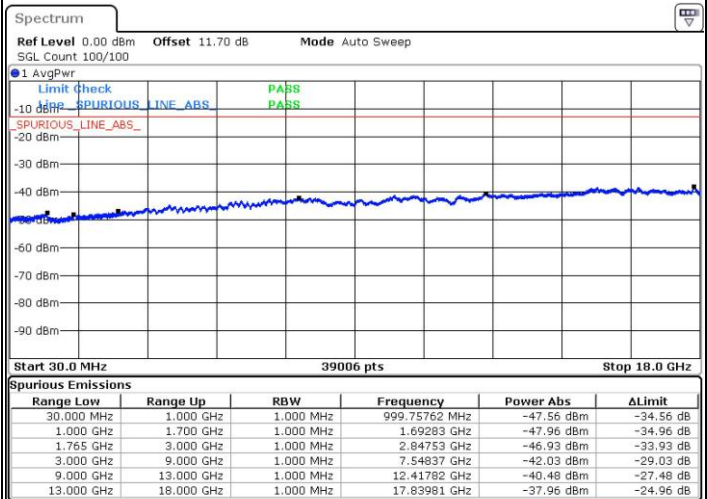
LTE Band 4 / 10MHz

Lowest Channel / QPSK



Date: 24.OCT.2018 14:59:20

Lowest Channel / 16QAM

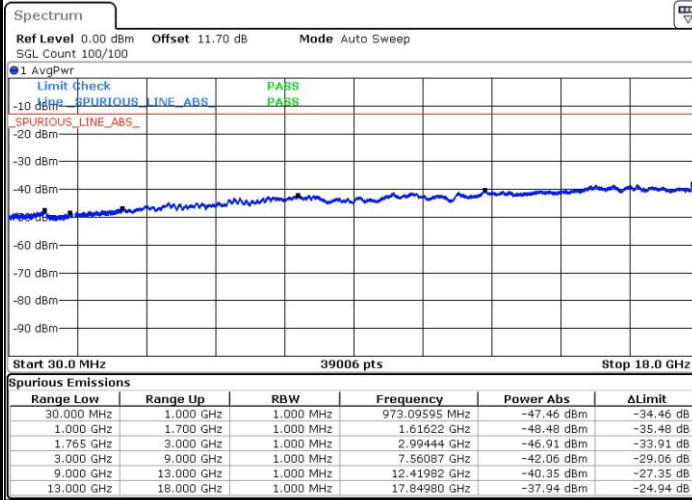


Date: 24.OCT.2018 15:00:01



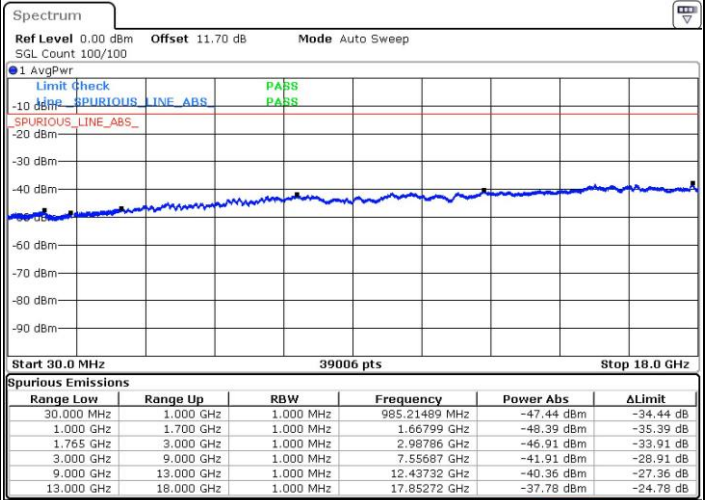
LTE Band 4 / 10MHz

Middle Channel / QPSK



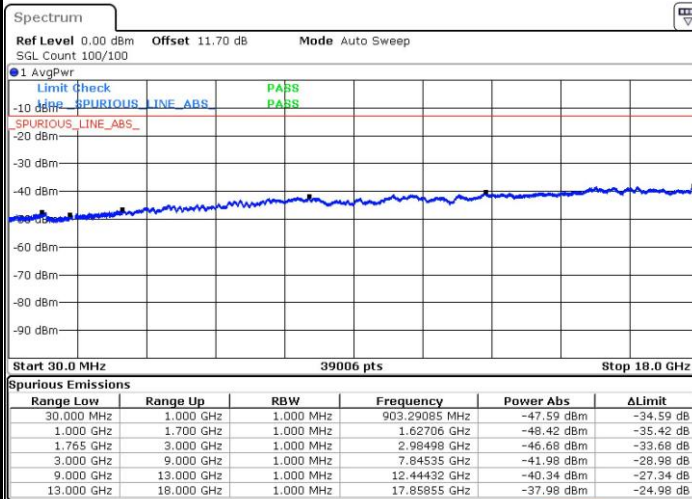
Date: 24.OCT.2018 15:01:27

Middle Channel / 16QAM



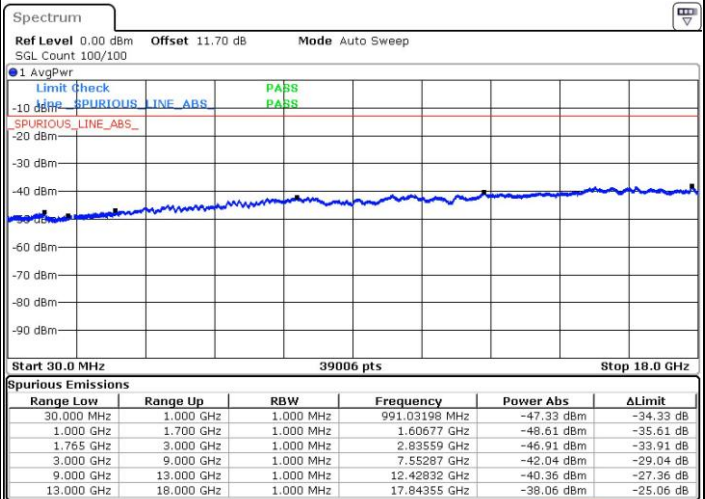
Date: 24.OCT.2018 15:02:08

Highest Channel / QPSK



Date: 24.OCT.2018 15:07:35

Highest Channel / 16QAM

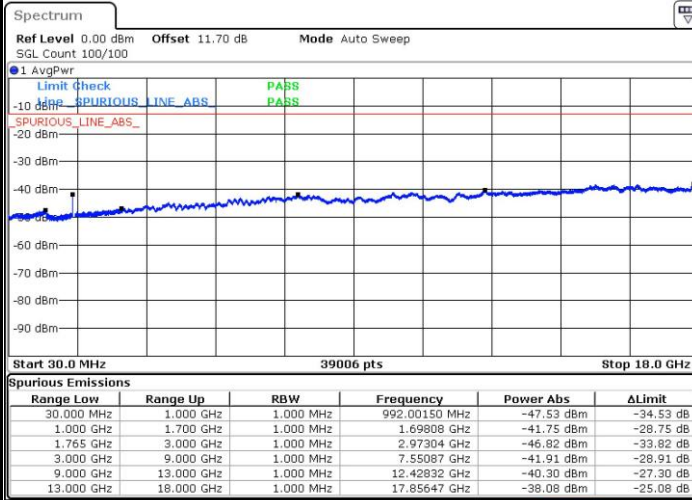


Date: 24.OCT.2018 15:08:15



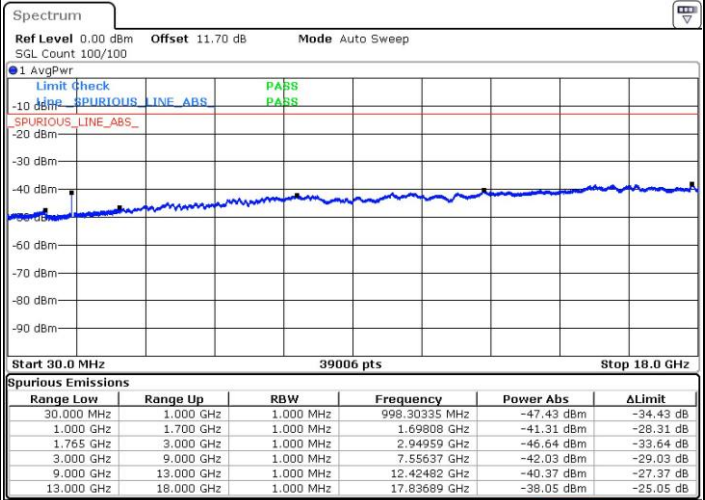
LTE Band 4 / 15MHz

Lowest Channel / QPSK



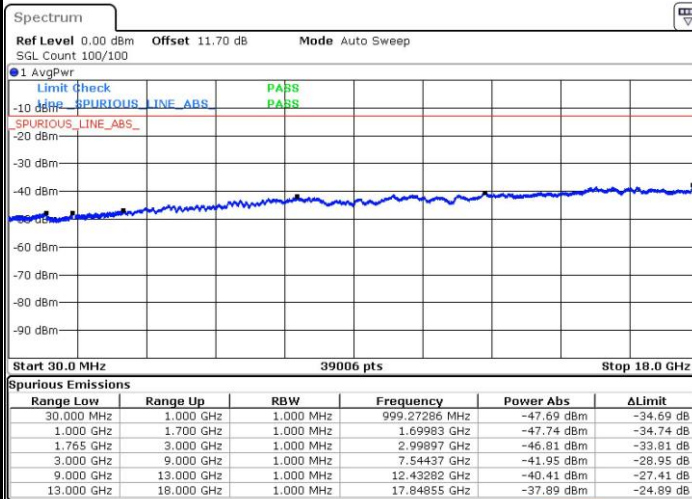
Date: 24.OCT.2018 15:13:42

Lowest Channel / 16QAM



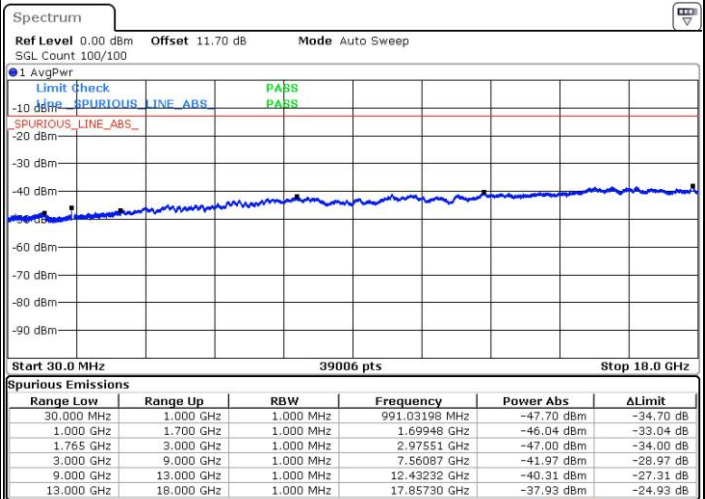
Date: 24.OCT.2018 15:14:23

Middle Channel / QPSK



Date: 24.OCT.2018 15:15:49

Middle Channel / 16QAM

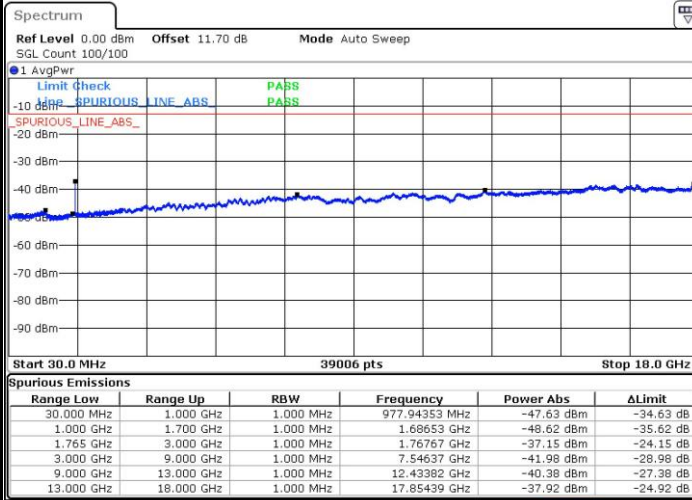


Date: 24.OCT.2018 15:16:29



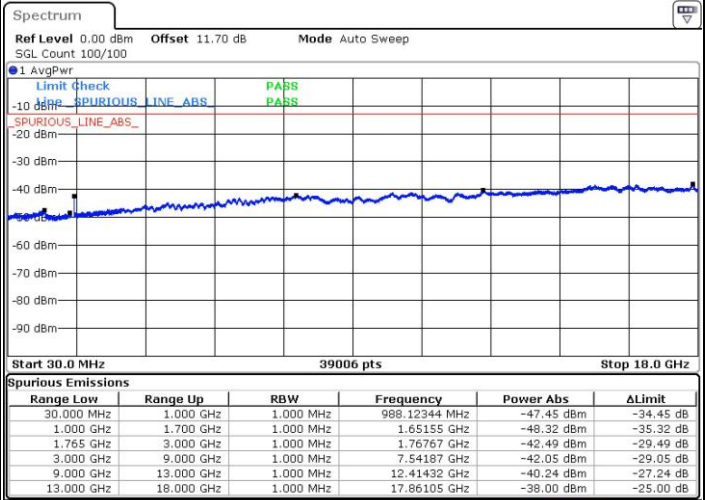
LTE Band 4 / 15MHz

Highest Channel / QPSK



Date: 24.OCT.2018 15:21:56

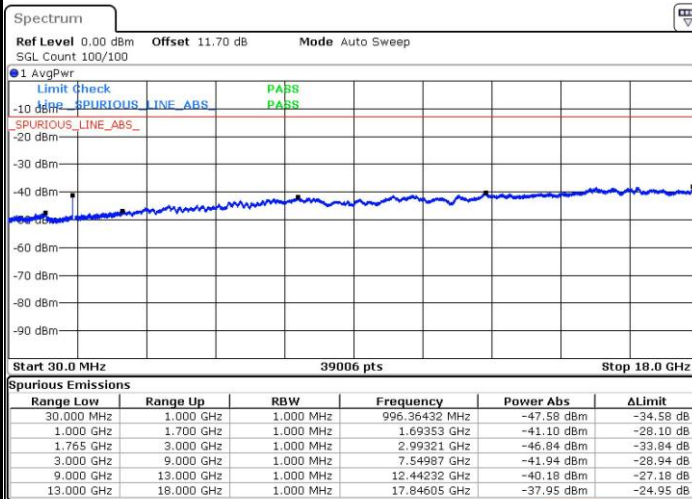
Highest Channel / 16QAM



Date: 24.OCT.2018 15:22:36

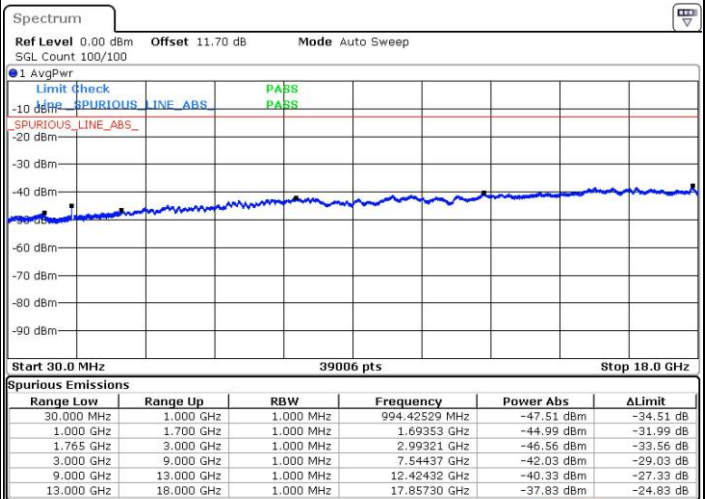
LTE Band 4 / 20MHz

Lowest Channel / QPSK



Date: 24.OCT.2018 15:28:03

Lowest Channel / 16QAM

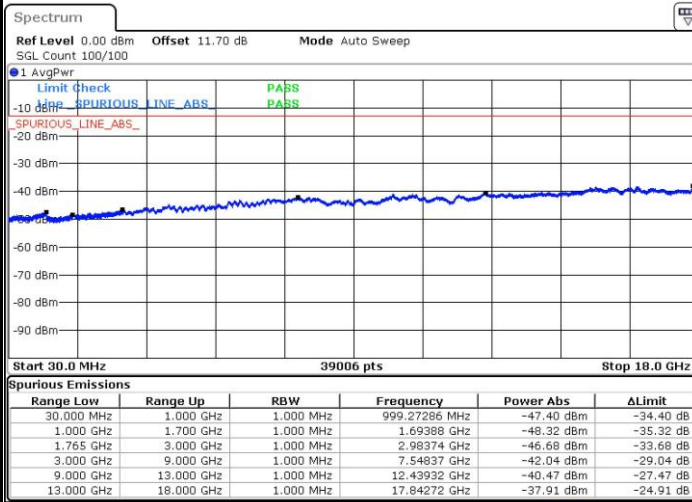


Date: 24.OCT.2018 15:28:44



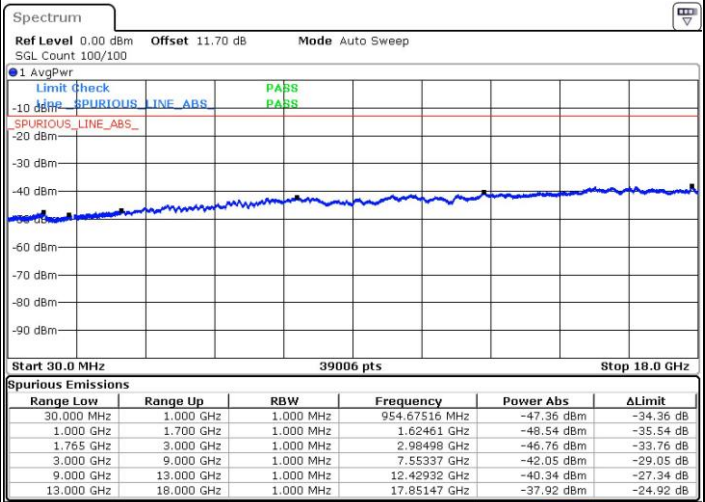
LTE Band 4 / 20MHz

Middle Channel / QPSK



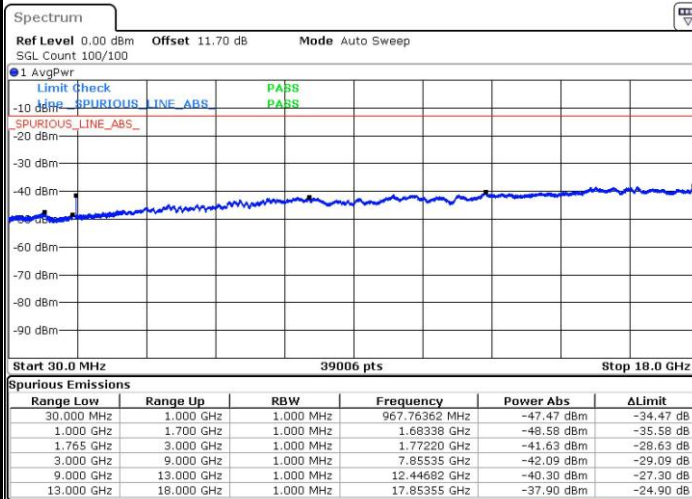
Date: 24.OCT.2018 15:30:10

Middle Channel / 16QAM



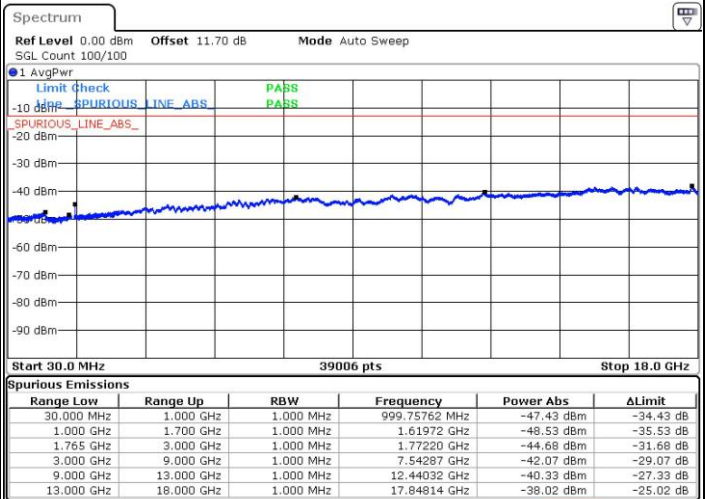
Date: 24.OCT.2018 15:30:50

Highest Channel / QPSK



Date: 24.OCT.2018 15:36:17

Highest Channel / 16QAM

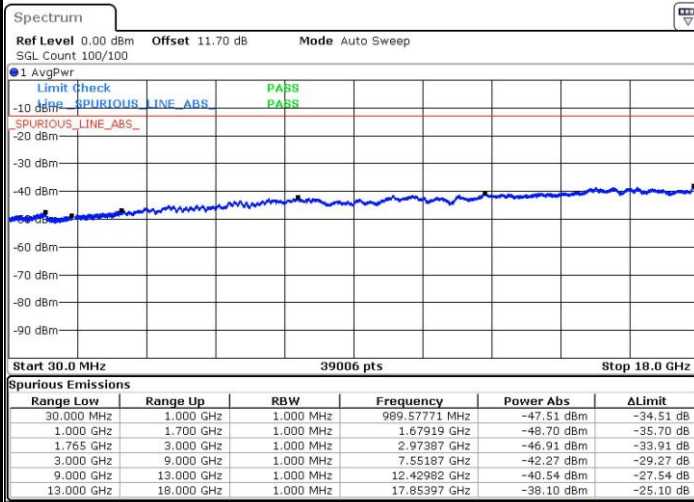


Date: 24.OCT.2018 15:36:57



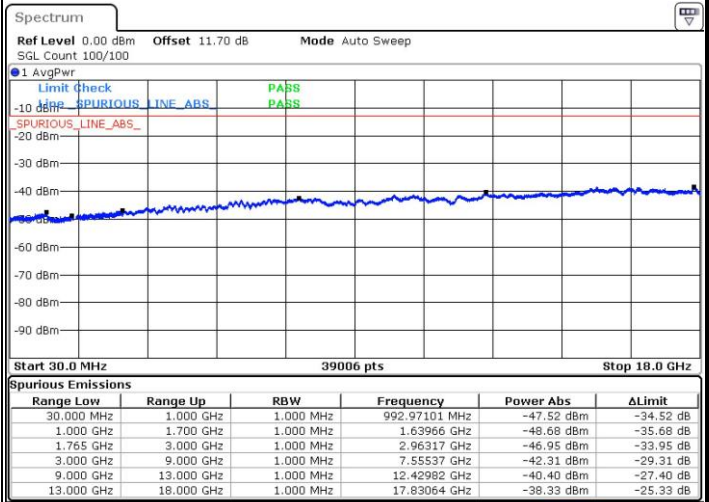
LTE Band 4 / 1.4MHz

Lowest Channel / 64QAM



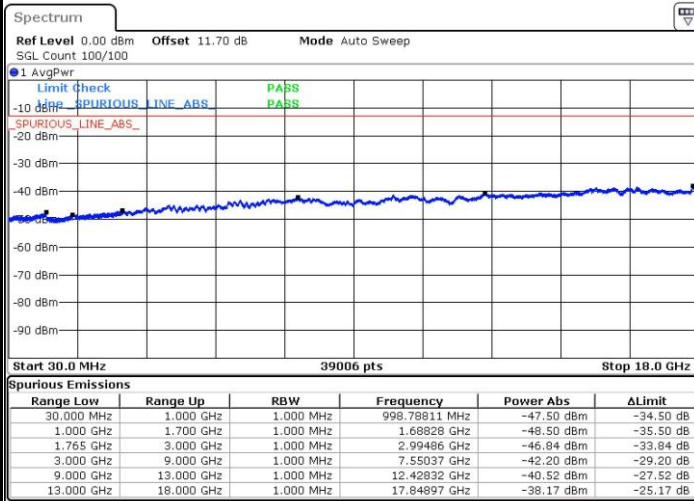
Date: 24.OCT.2018 16:16:00

Middle Channel / 64QAM



Date: 24.OCT.2018 16:17:03

Highest Channel / 64QAM

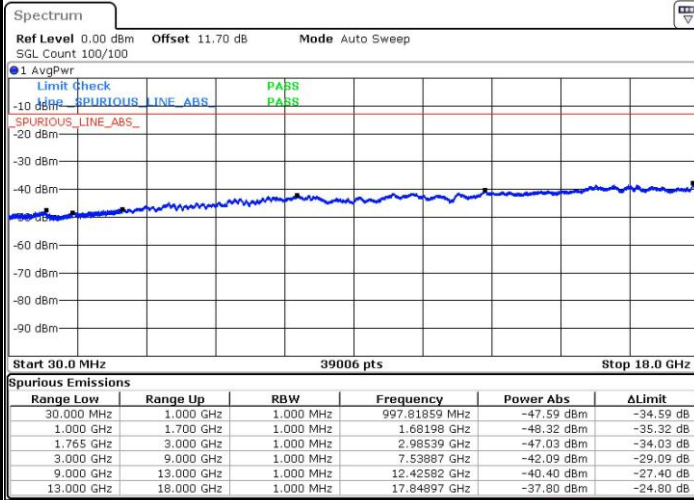


Date: 24.OCT.2018 16:20:14



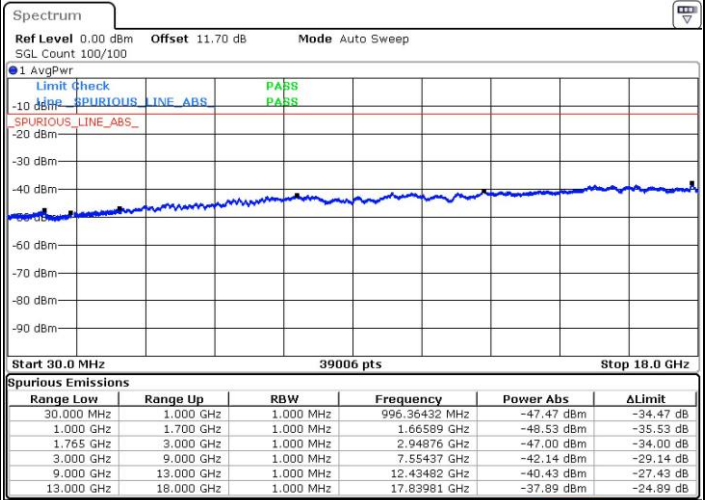
LTE Band 4 / 3MHz

Lowest Channel / 64QAM



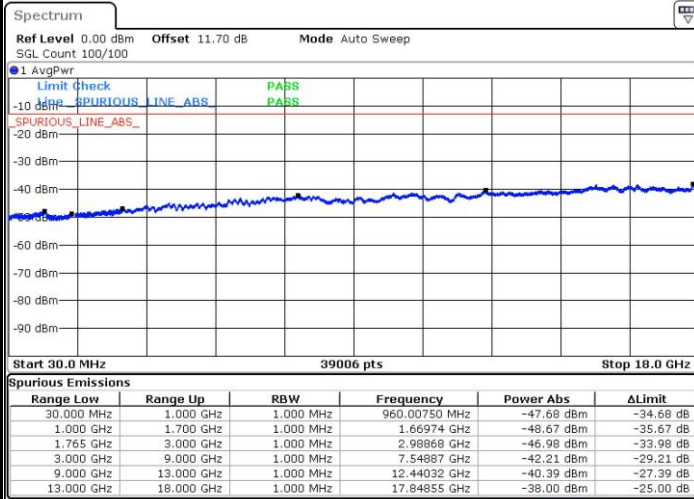
Date: 24.OCT.2018 15:40:01

Middle Channel / 64QAM



Date: 24.OCT.2018 15:41:04

Highest Channel / 64QAM

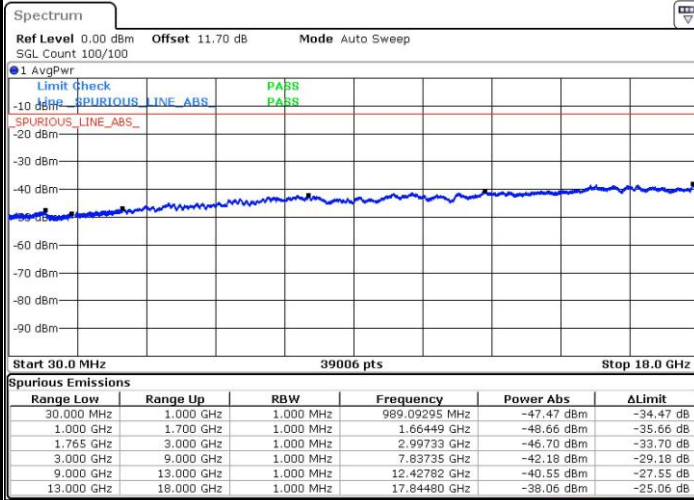


Date: 24.OCT.2018 15:44:08



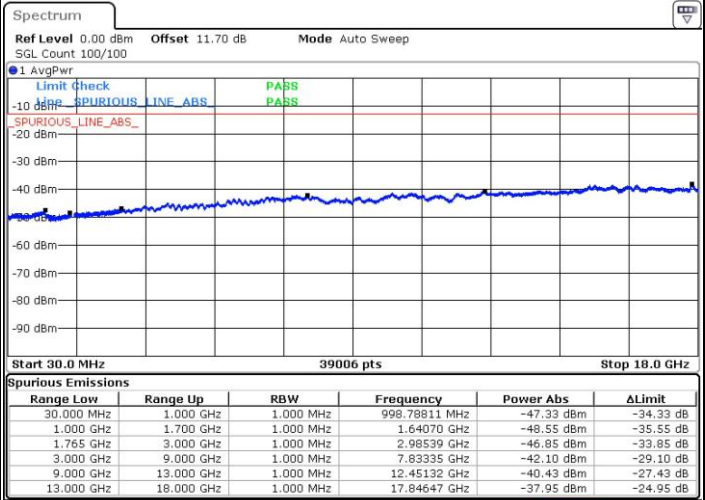
LTE Band 4 / 5MHz

Lowest Channel / 64QAM



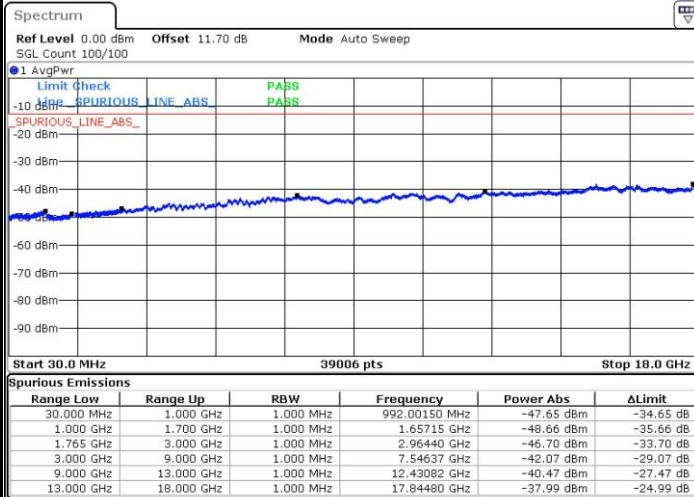
Date: 24.OCT.2018 15:47:12

Middle Channel / 64QAM



Date: 24.OCT.2018 15:48:15

Highest Channel / 64QAM

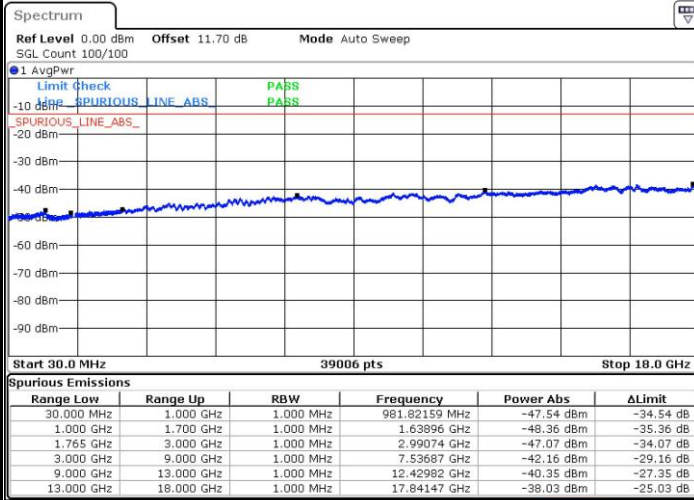


Date: 24.OCT.2018 15:51:19



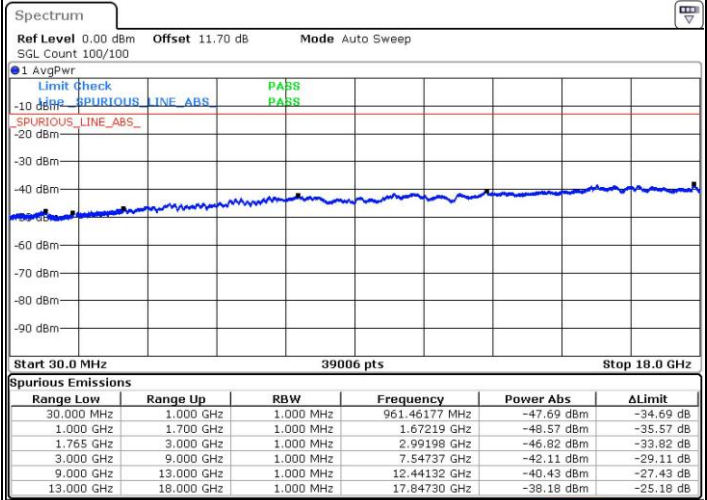
LTE Band 4 / 10MHz

Lowest Channel / 64QAM



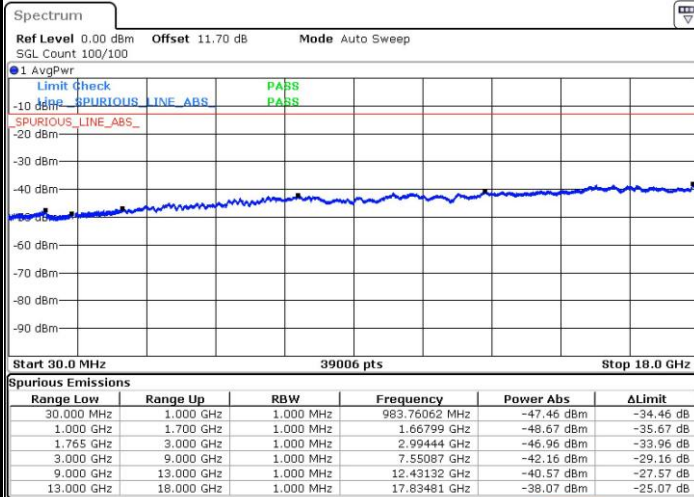
Date: 24.OCT.2018 15:54:22

Middle Channel / 64QAM



Date: 24.OCT.2018 15:55:26

Highest Channel / 64QAM

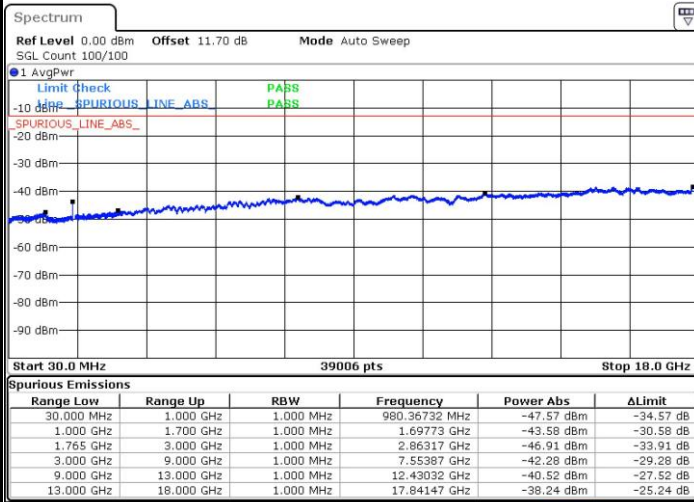


Date: 24.OCT.2018 15:58:29



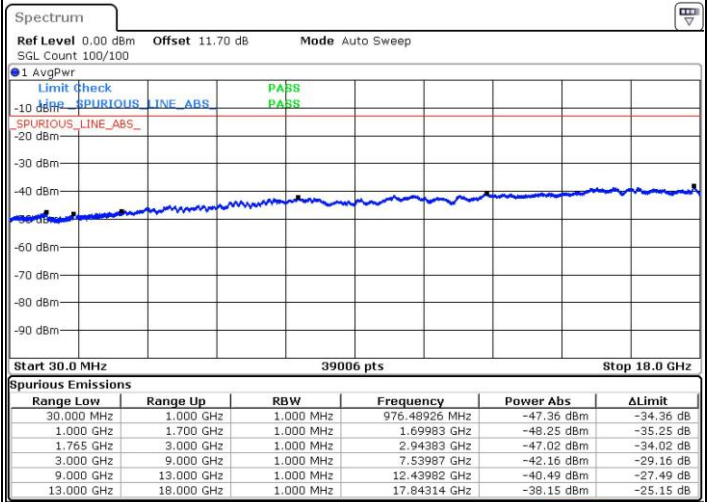
LTE Band 4 / 15MHz

Lowest Channel / 64QAM



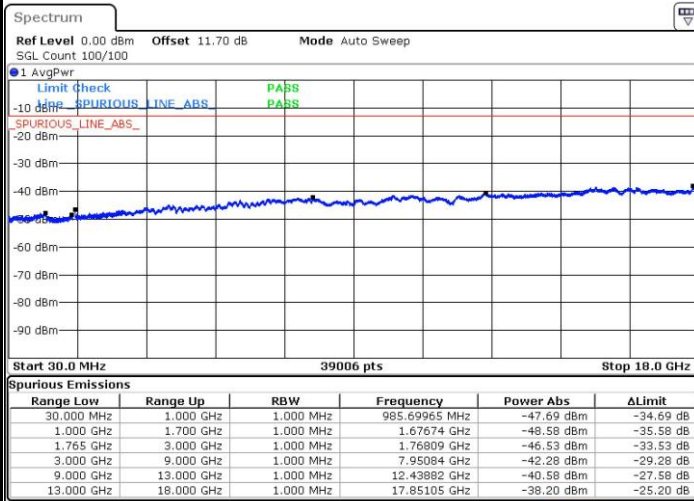
Date: 24.OCT.2018 16:01:33

Middle Channel / 64QAM



Date: 24.OCT.2018 16:02:36

Highest Channel / 64QAM

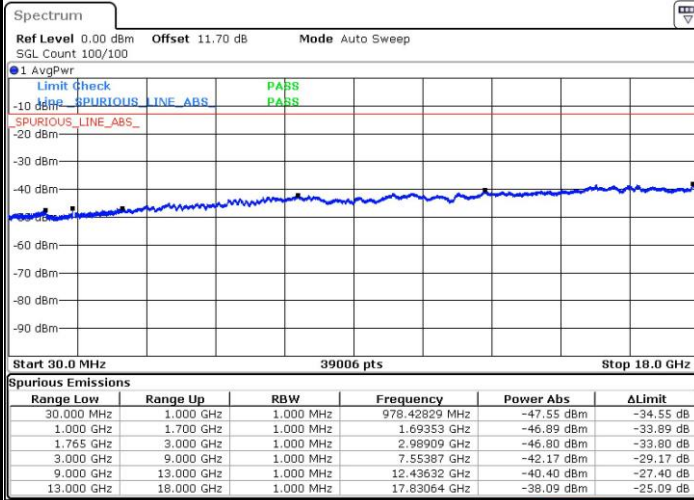


Date: 24.OCT.2018 16:05:40



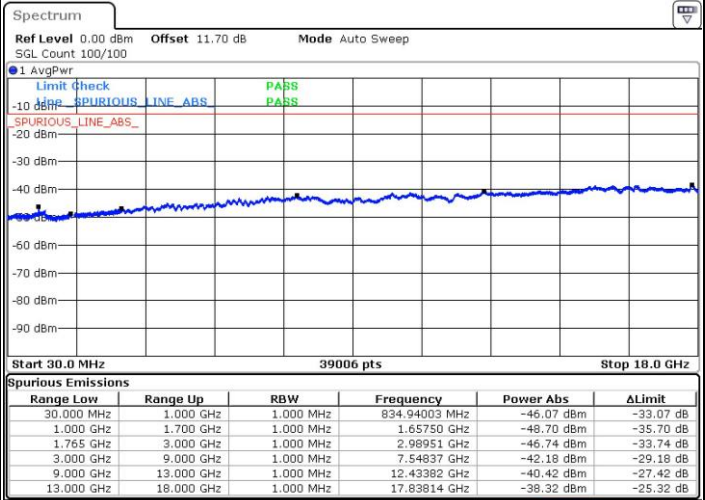
LTE Band 4 / 20MHz

Lowest Channel / 64QAM



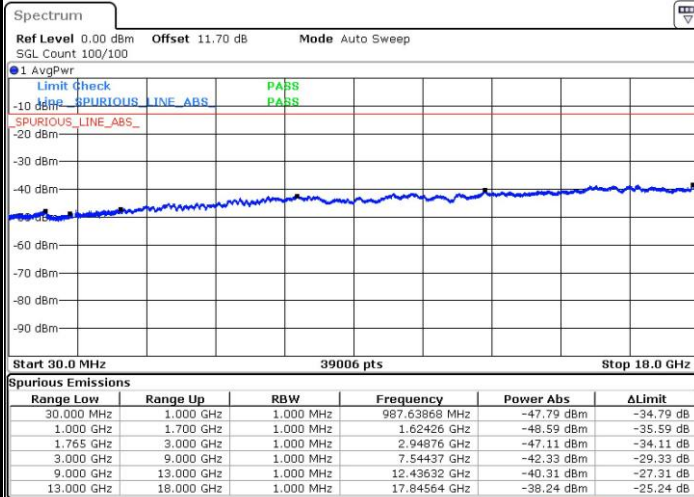
Date: 24.OCT.2018 16:08:43

Middle Channel / 64QAM



Date: 24.OCT.2018 16:09:47

Highest Channel / 64QAM



Date: 24.OCT.2018 16:12:50

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	0.0053	PASS
40	Normal Voltage	0.0002	
30	Normal Voltage	0.0007	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0059	
0	Normal Voltage	0.0058	
-10	Normal Voltage	0.0047	
-20	Normal Voltage	0.0050	
-30	Normal Voltage	0.0002	
20	Maximum Voltage	0.0005	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0003	

Note:

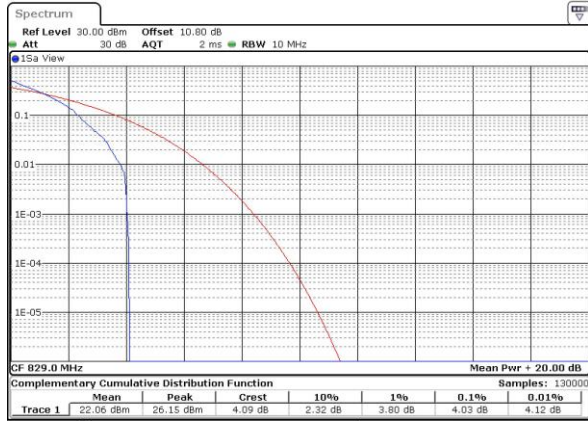
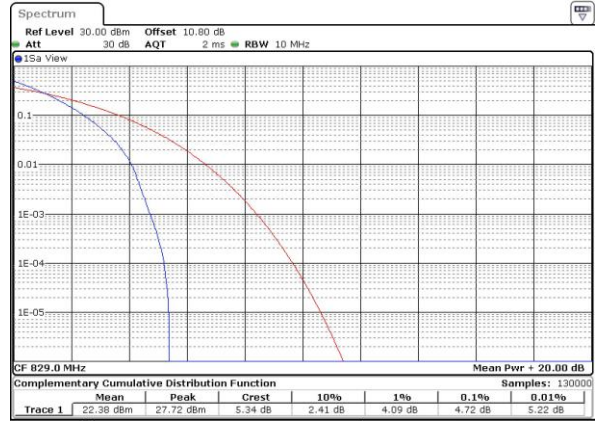
1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.2 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

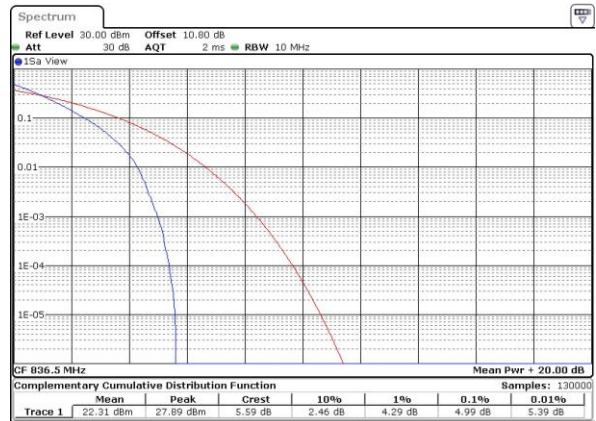


LTE Band 5

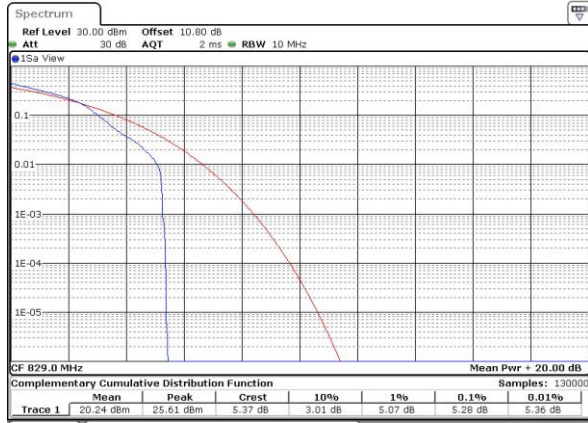
Peak-to-Average Ratio

Mode	LTE Band 5 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.03	4.72	5.28	5.65	PASS
Middle CH	4.2	4.99	5.04	5.88	
Highest CH	4.46	4.84	5.22	5.91	
Mode	LTE Band 5 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.75	6.09	-	-	PASS
Middle CH	6.70	6.43	-	-	
Highest CH	6.23	6.41	-	-	

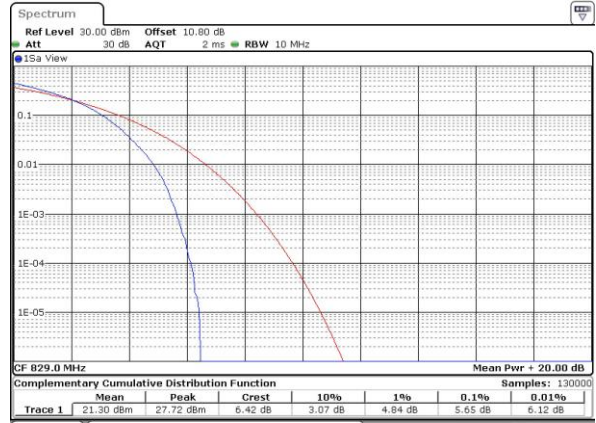
LTE Band 5 / 10MHz / QPSK
Lowest Channel / 1RB

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


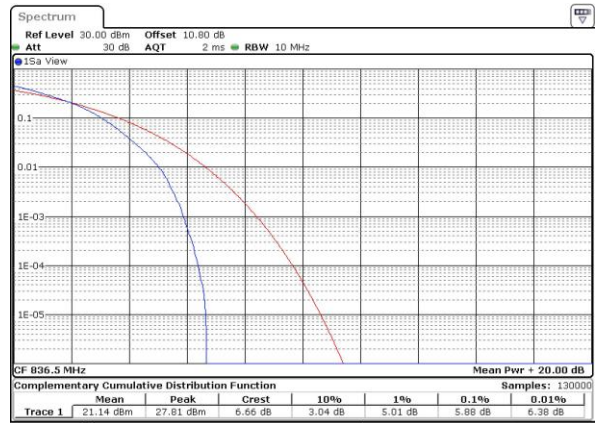
Date: 24.OCT.2018 23:25:32

Lowest Channel / Full RB


Date: 24.OCT.2018 23:25:42

Middle Channel / 1RB


Date: 24.OCT.2018 23:25:52

Middle Channel / Full RB


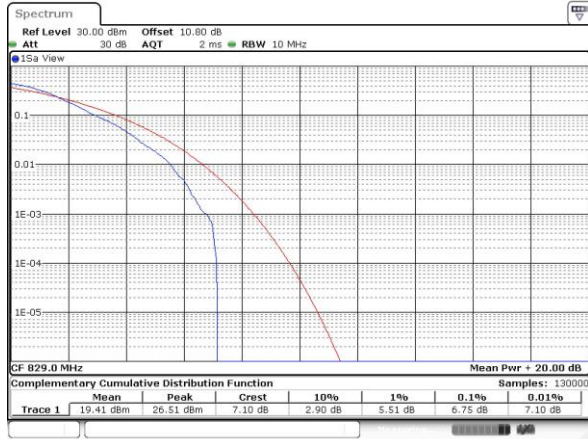
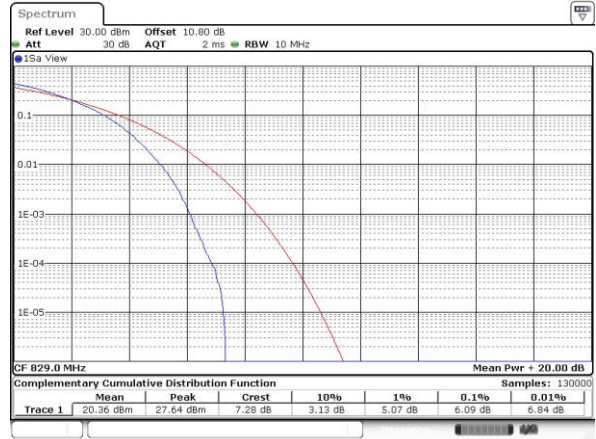
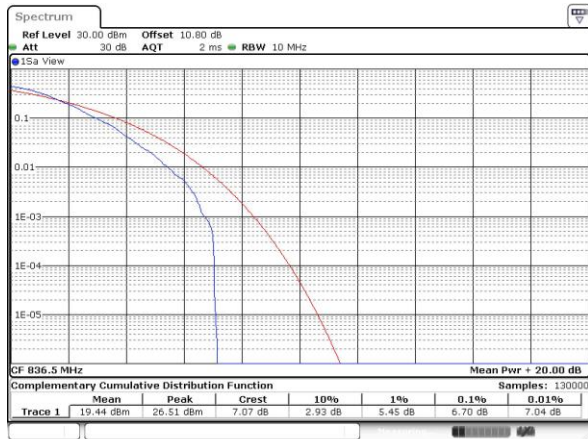
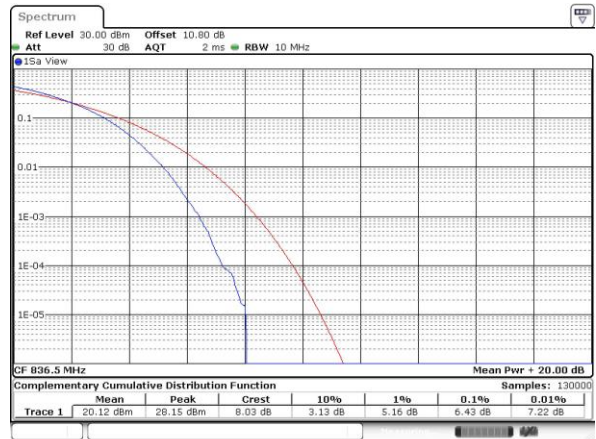
Date: 24.OCT.2018 23:26:02

Highest Channel / 1RB


Date: 24.OCT.2018 23:26:12

Highest Channel / Full RB


Date: 24.OCT.2018 23:26:21

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

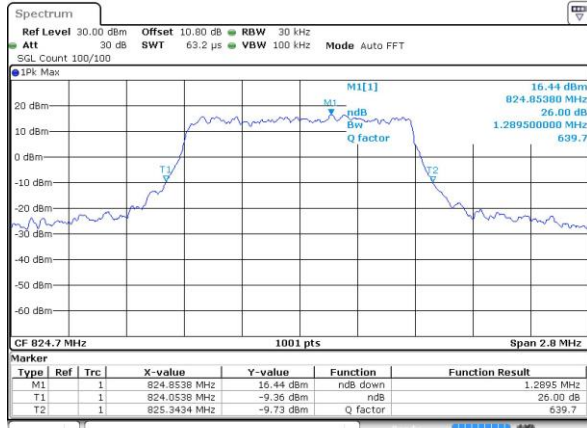

**26dB Bandwidth**

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	1.29	1.28	2.99	3.03	4.93	4.87	9.75	9.93	-	-	-	-
Middle CH	1.28	1.27	2.97	3.03	4.94	4.97	9.87	9.81	-	-	-	-
Highest CH	1.27	1.26	3.05	2.99	4.89	4.93	9.65	9.67	-	-	-	-
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	-	4.87	-	9.63	-	-	-	-	-
Middle CH	1.26	-	2.97	-	4.98	-	9.93	-	-	-	-	-
Highest CH	1.30	-	3.00	-	5.03	-	9.83	-	-	-	-	-



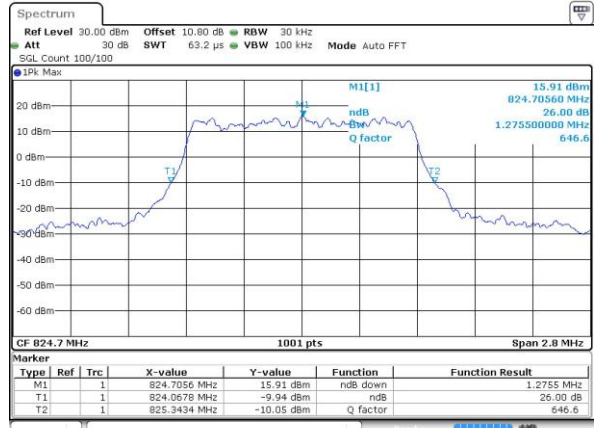
LTE Band 5

Lowest Channel / 1.4MHz / QPSK



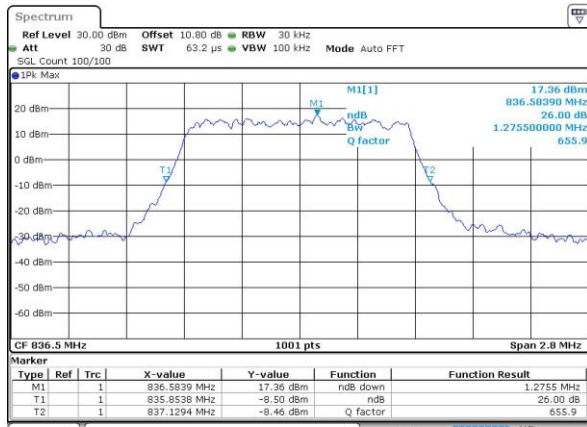
Date: 24.OCT.2018 22:58:18

Lowest Channel / 1.4MHz / 16QAM



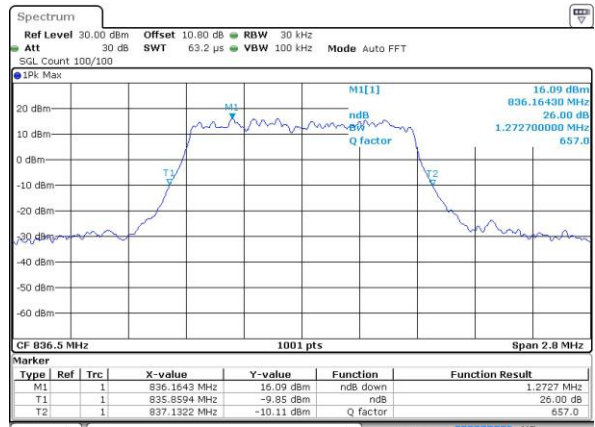
Date: 24.OCT.2018 22:58:06

Middle Channel / 1.4MHz / QPSK



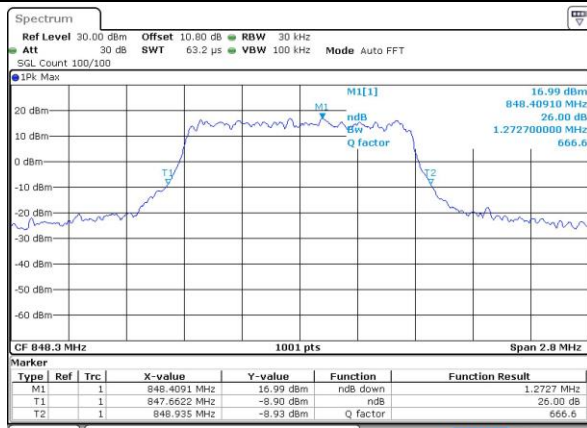
Date: 24.OCT.2018 23:06:54

Middle Channel / 1.4MHz / 16QAM



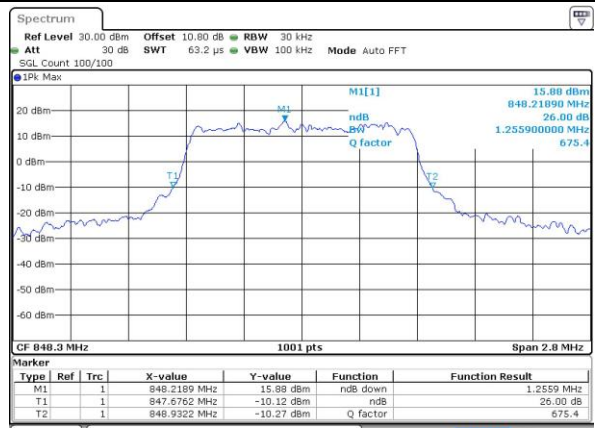
Date: 24.OCT.2018 23:07:05

Highest Channel / 1.4MHz / QPSK



Date: 24.OCT.2018 23:09:00

Highest Channel / 1.4MHz / 16QAM

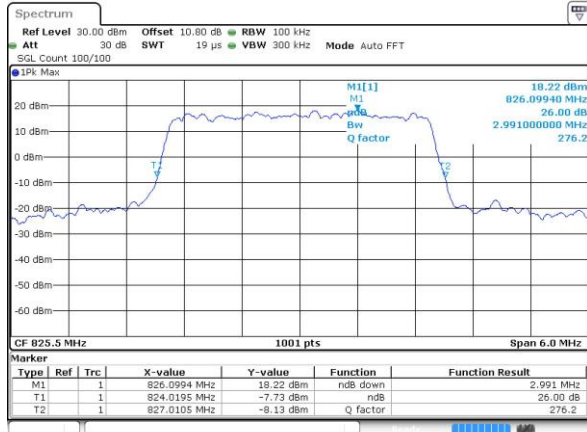


Date: 24.OCT.2018 23:09:12



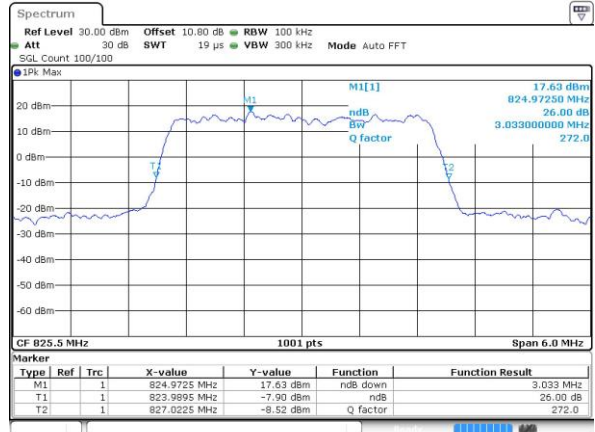
LTE Band 5

Lowest Channel / 3MHz / QPSK



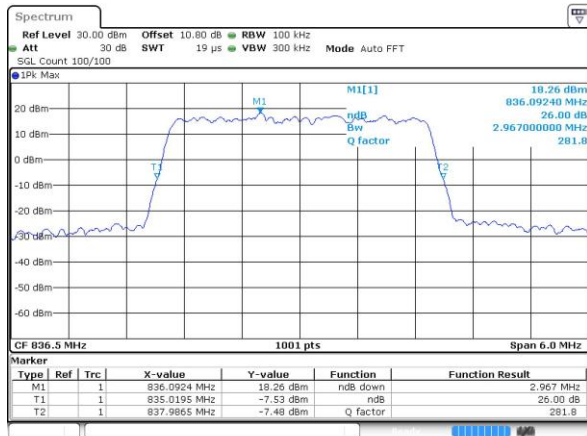
Date: 24.OCT.2018 21:14:20

Lowest Channel / 3MHz / 16QAM



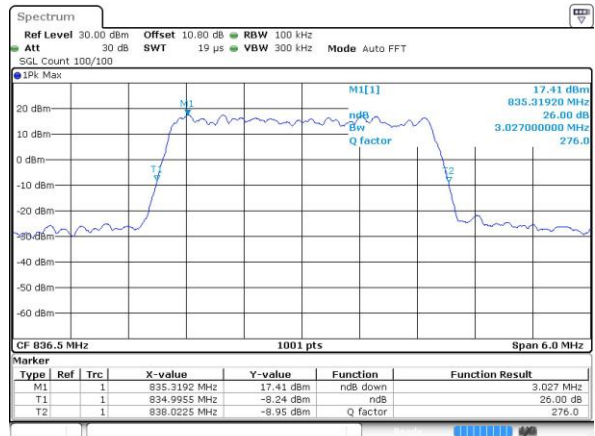
Date: 24.OCT.2018 21:14:32

Middle Channel / 3MHz / QPSK



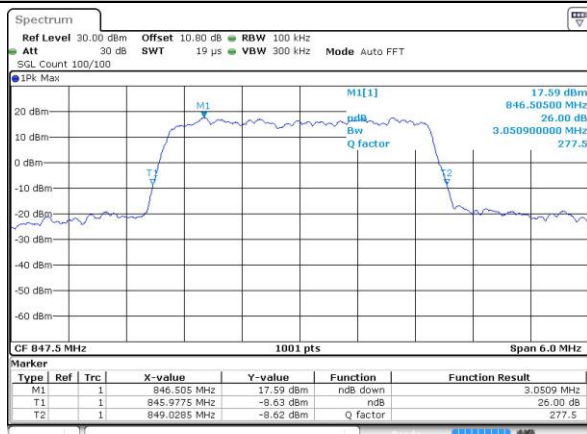
Date: 24.OCT.2018 21:23:07

Middle Channel / 3MHz / 16QAM



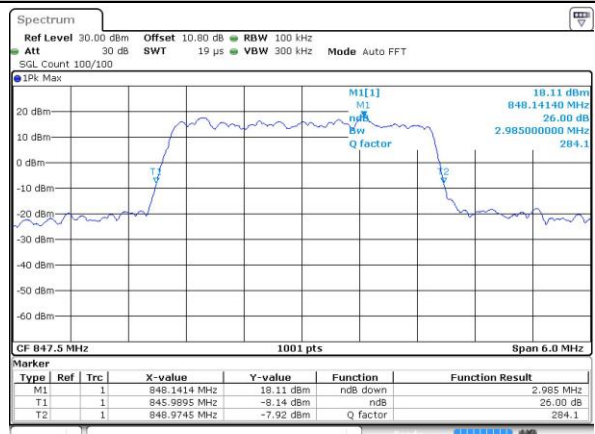
Date: 24.OCT.2018 21:23:19

Highest Channel / 3MHz / QPSK



Date: 24.OCT.2018 21:25:13

Highest Channel / 3MHz / 16QAM



Date: 24.OCT.2018 21:25:25