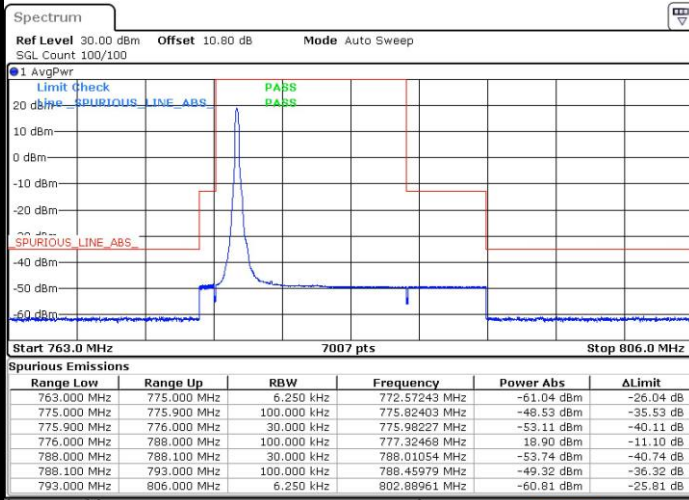


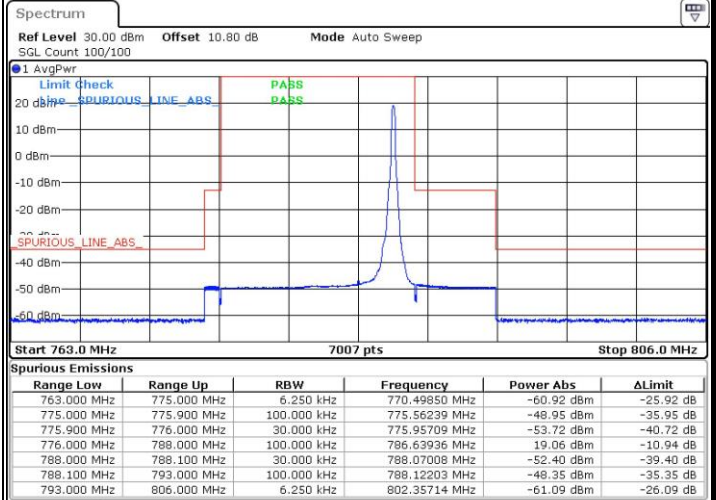


LTE Band 13 / 5MHz / 64QAM

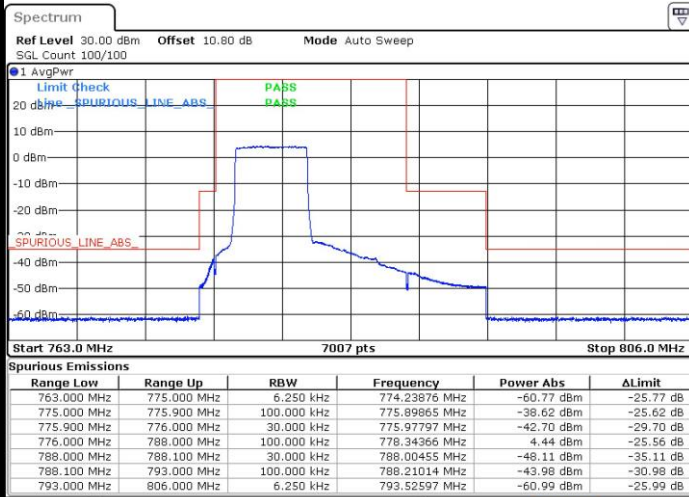
Lowest Band Edge / 1 RB



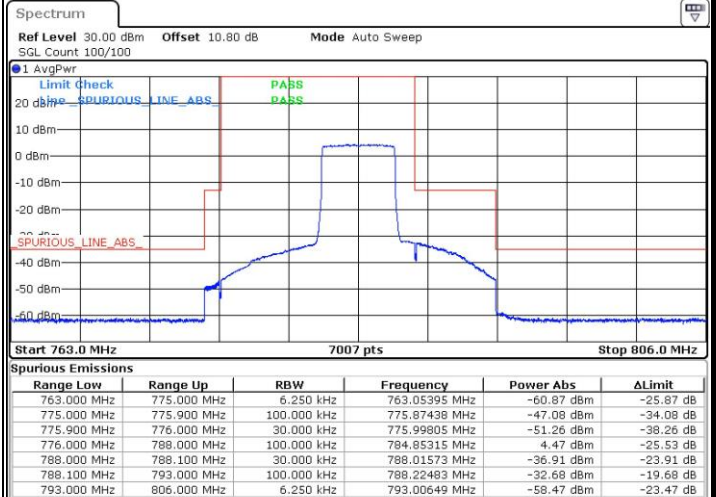
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



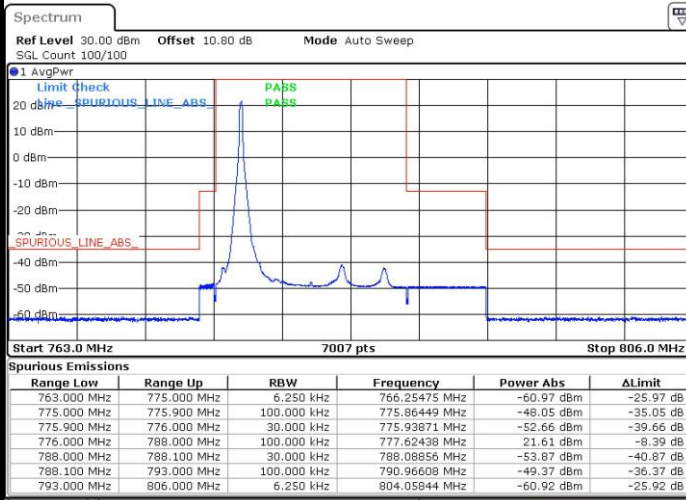
Highest Band Edge / Full RB





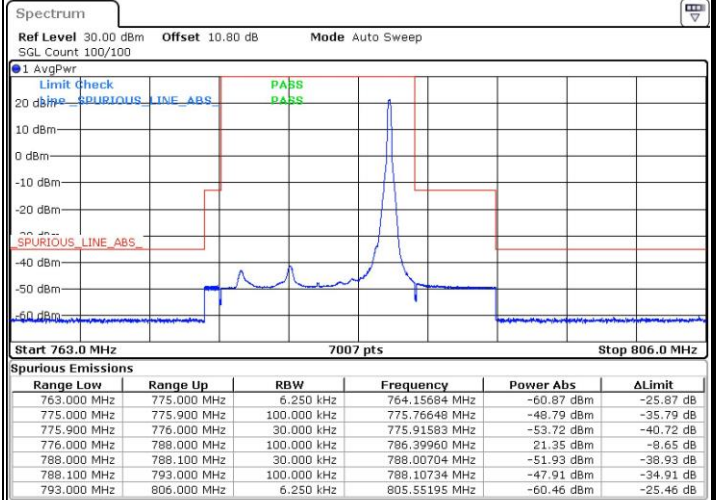
LTE Band 13 / 10MHz / QPSK

Lowest Band Edge / 1 RB



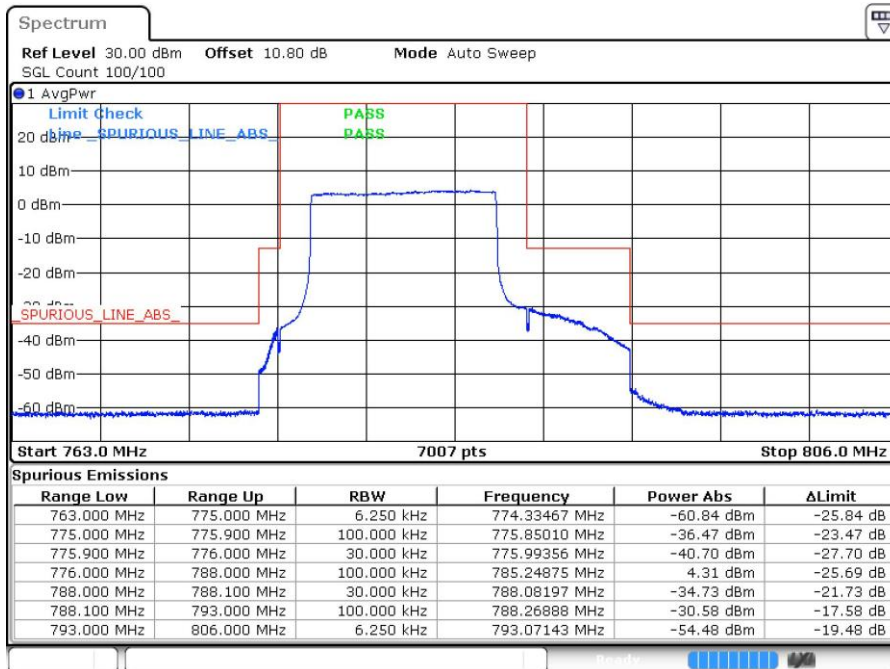
Date: 1 JUL 2019 04:12:31

Highest Band Edge / 1 RB



Date: 1 JUL 2019 04:14:12

Band Edge / Full RB

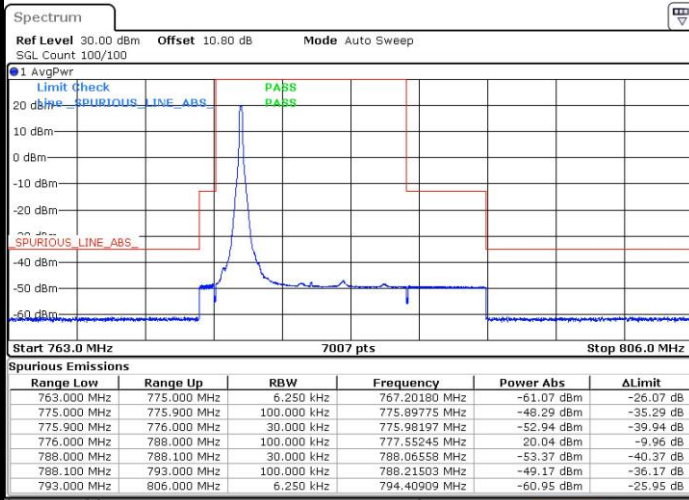


Date: 1 JUL 2019 04:07:29



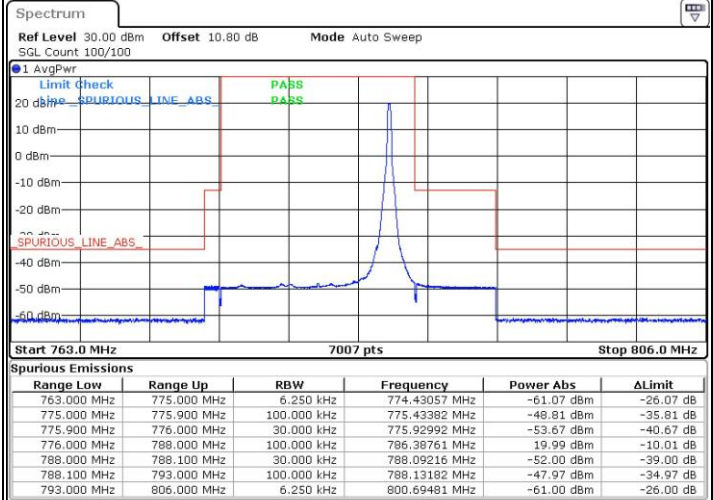
LTE Band 13 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



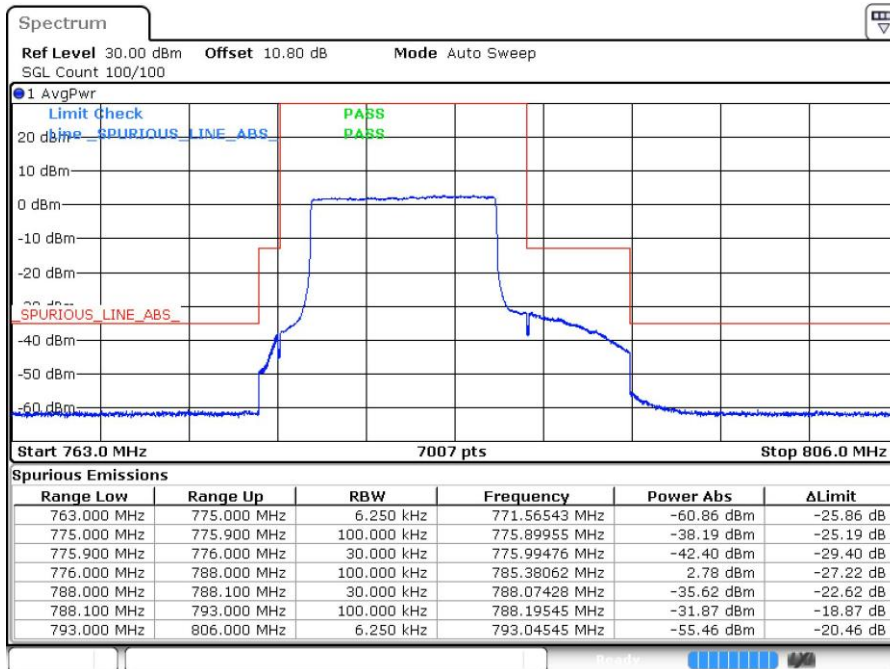
Date: 1 JUL 2019 04:10:51

Highest Band Edge / 1 RB



Date: 1 JUL 2019 04:15:53

Band Edge / Full RB

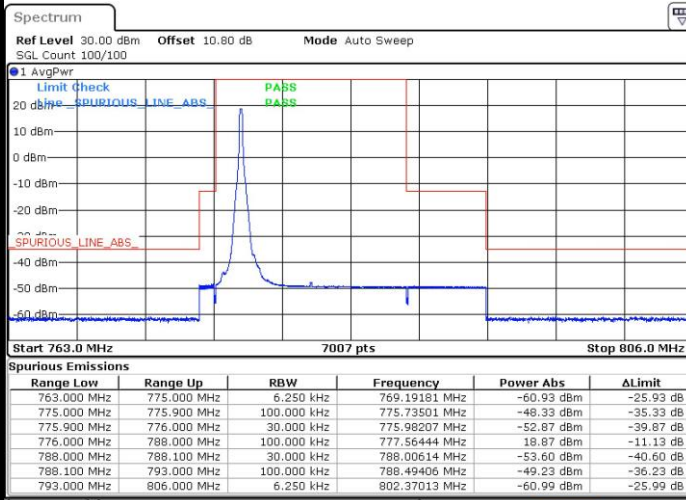


Date: 1 JUL 2019 04:09:10



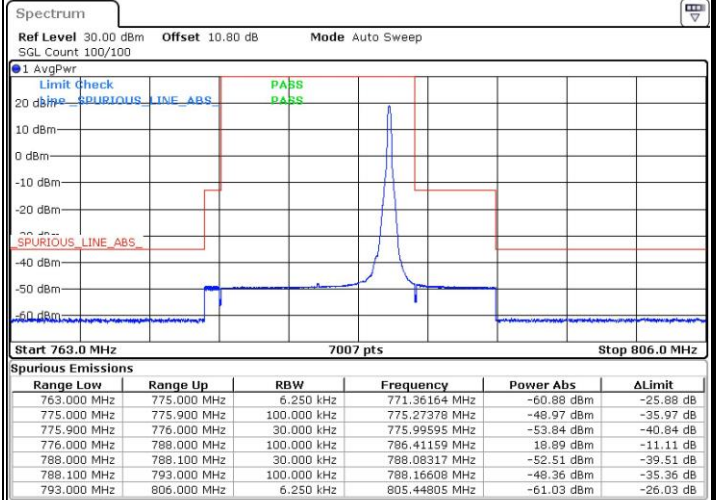
LTE Band 13 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



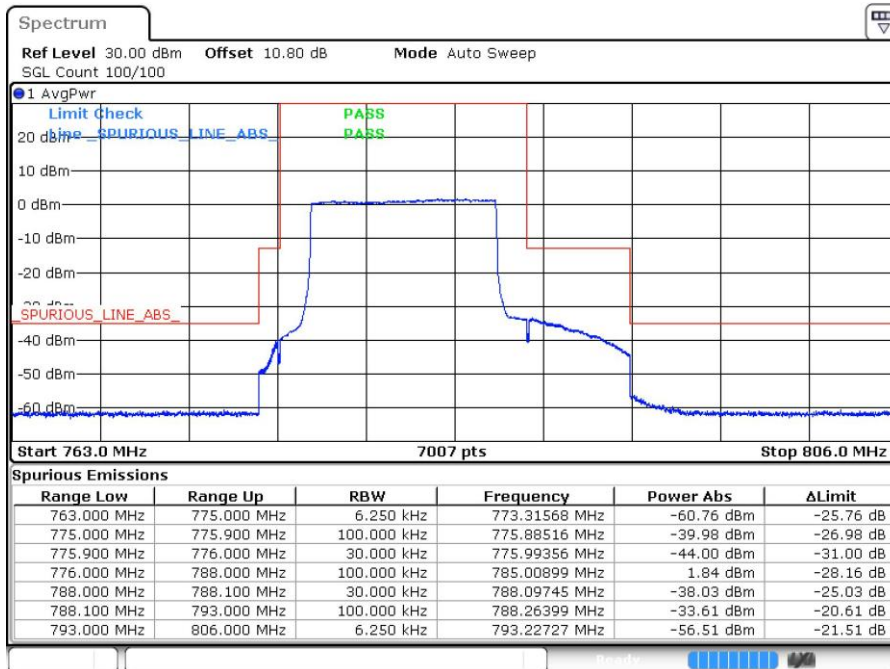
Date: 1 JUL 2019 04:20:58

Highest Band Edge / 1 RB



Date: 1 JUL 2019 04:22:38

Band Edge / Full RB



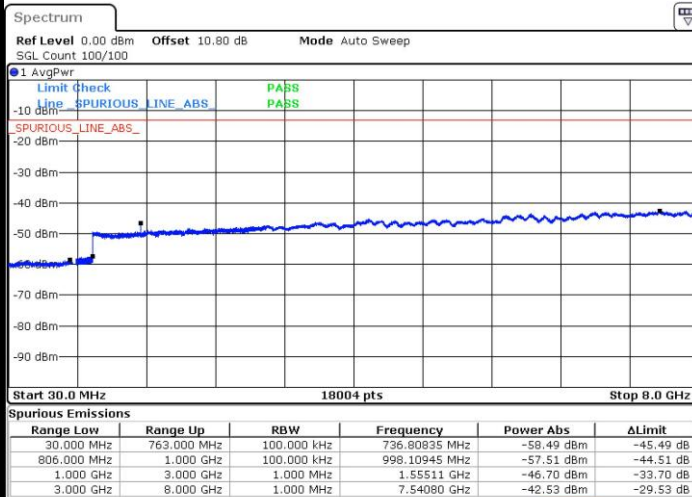
Date: 1 JUL 2019 04:19:17



Conducted Spurious Emission

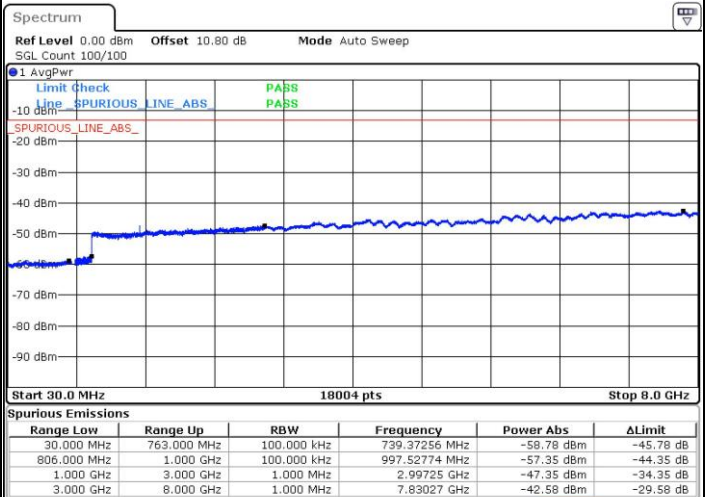
LTE Band 13 / 5MHz

Lowest Channel / QPSK



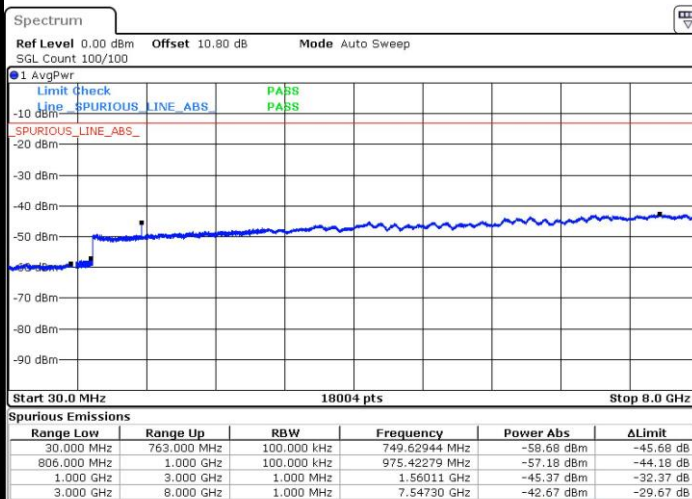
Date: 1 JUL 2019 03:43:17

Lowest Channel / 16QAM



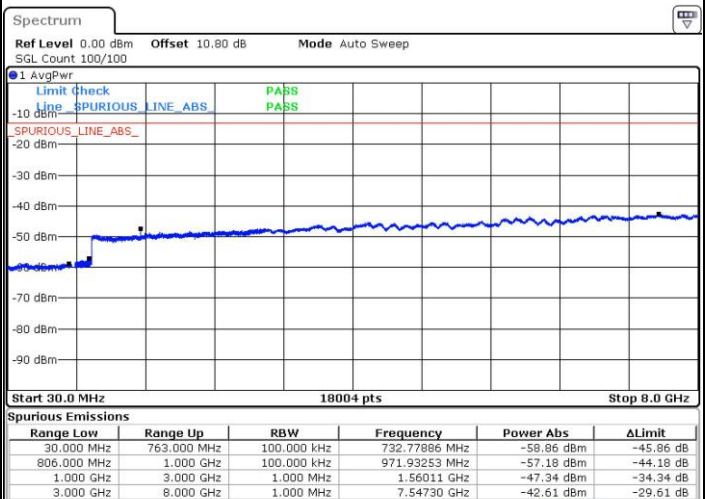
Date: 1 JUL 2019 03:43:58

Middle Channel / QPSK



Date: 1 JUL 2019 03:45:19

Middle Channel / 16QAM

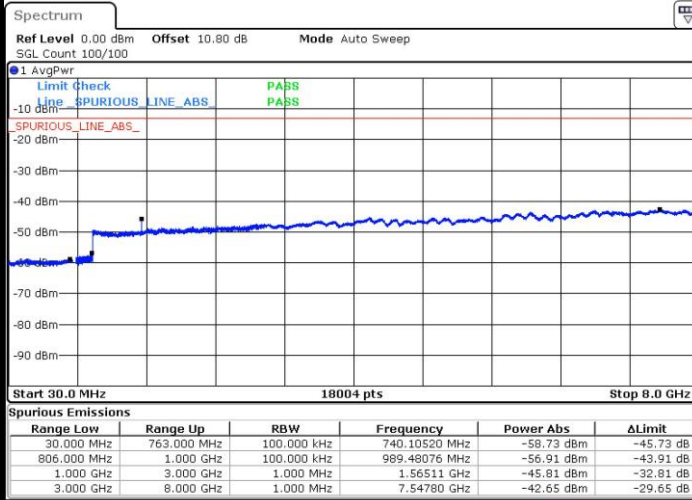


Date: 1 JUL 2019 03:44:39



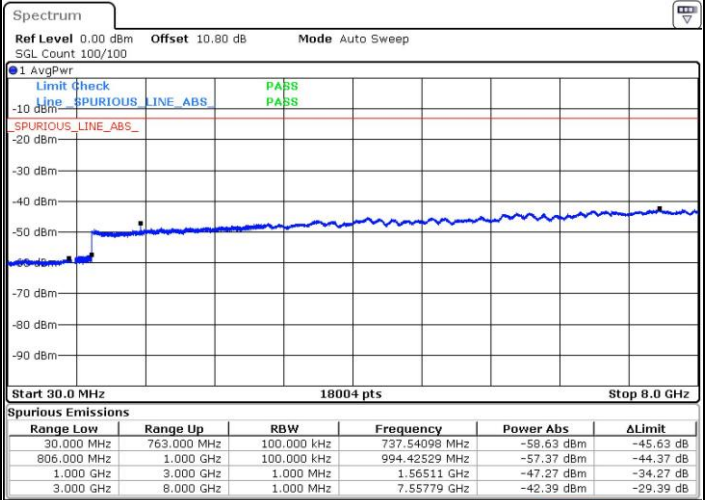
LTE Band 13 / 5MHz

Highest Channel / QPSK



Date: 1 JUL 2019 03:54:21

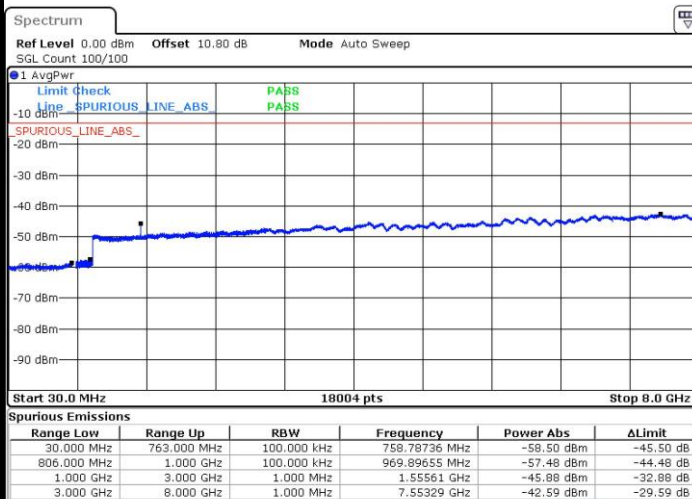
Highest Channel / 16QAM



Date: 1 JUL 2019 03:55:02

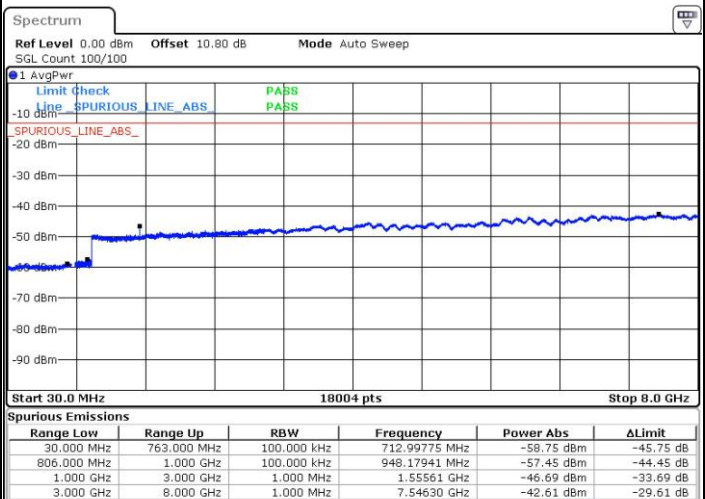
LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 1 JUL 2019 04:17:14

Middle Channel / 16QAM

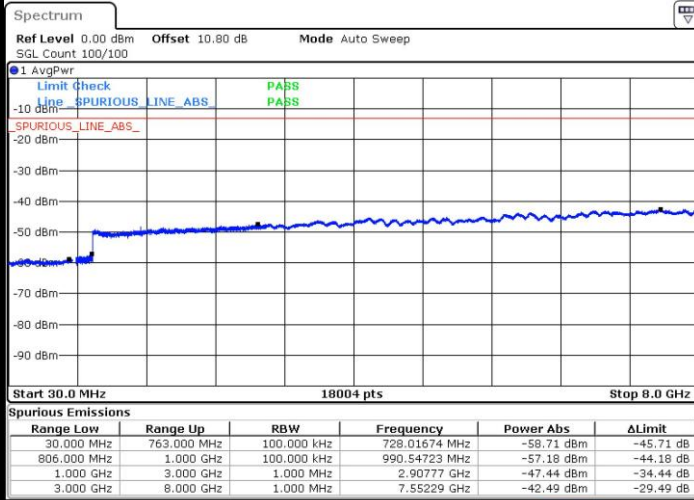


Date: 1 JUL 2019 04:16:33



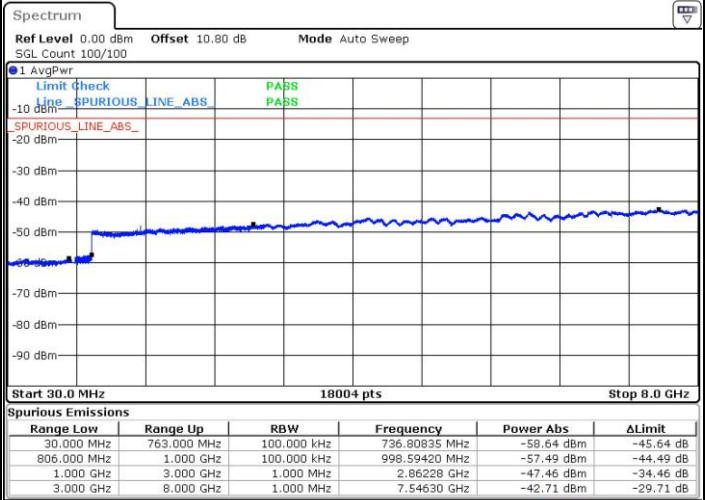
LTE Band 13 / 5MHz

Lowest Channel / 64QAM



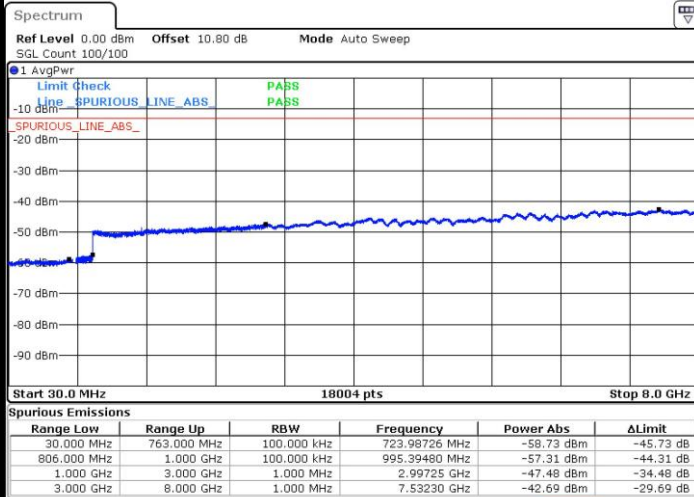
Date: 1 JUL 2019 03:59:30

Middle Channel / 64QAM



Date: 1 JUL 2019 04:00:11

Highest Channel / 64QAM

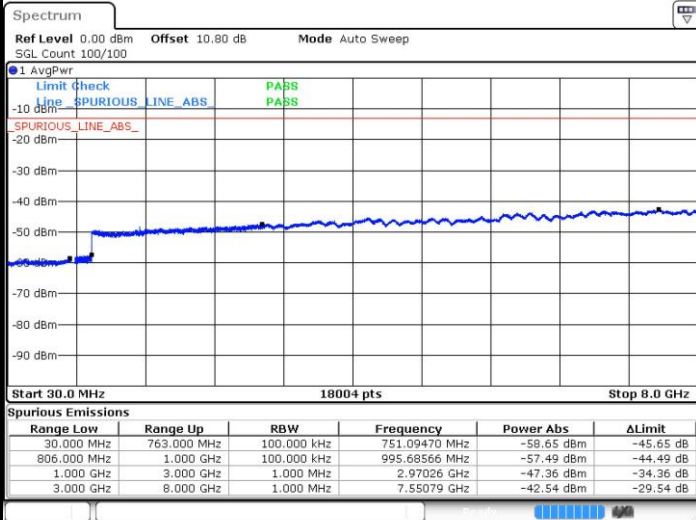


Date: 1 JUL 2019 04:05:02



LTE Band 13 / 10MHz

Middle Channel / 64QAM



Date: 1 JUL 2019 04:23:19

Frequency Stability

Test Conditions		LTE Band 13 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0054	PASS
40	Normal Voltage	0.0072	
30	Normal Voltage	0.0123	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0005	
0	Normal Voltage	0.0082	
-10	Normal Voltage	0.0160	
-20	Normal Voltage	0.0202	
-30	Normal Voltage	0.0203	
20	Maximum Voltage	0.0077	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0070	

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 41

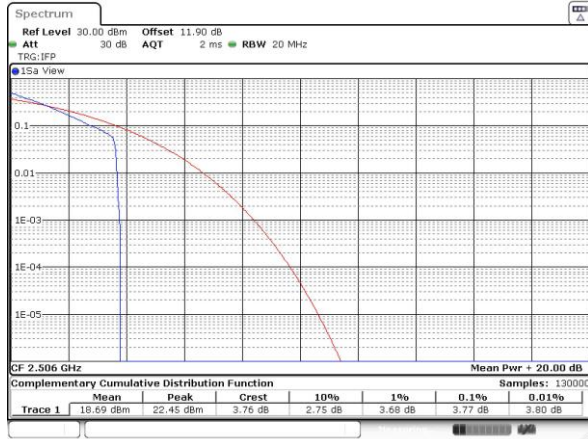
Peak-to-Average Ratio

Mode	LTE Band 41 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.77	5.10	4.61	6.00	PASS
Middle CH	3.68	5.07	4.35	6.00	
Highest CH	3.74	5.04	4.41	5.94	
Mode	LTE Band 41 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	5.62	6.52	-	-	PASS
Middle CH	5.57	6.49	-	-	
Highest CH	5.25	6.43	-	-	

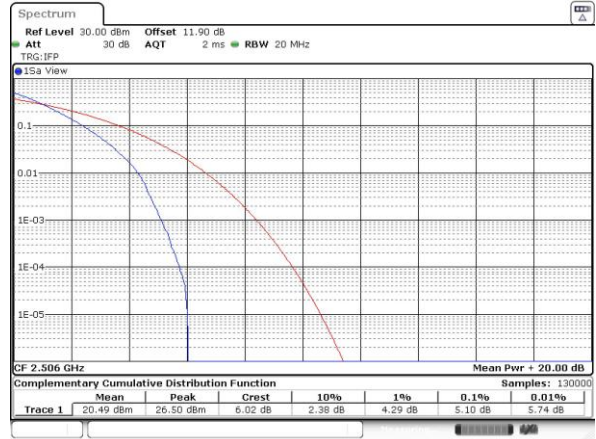


LTE Band 41 / 20MHz / QPSK

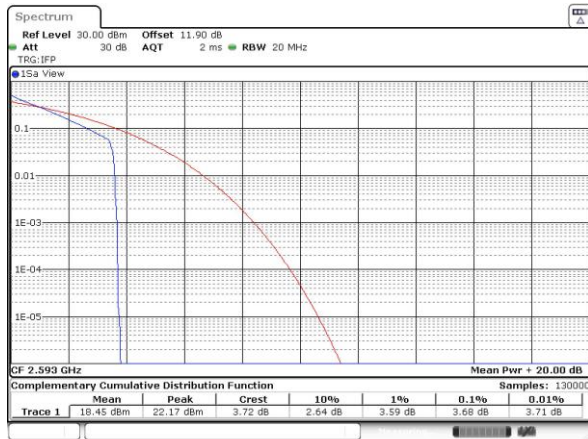
Lowest Channel / 1RB



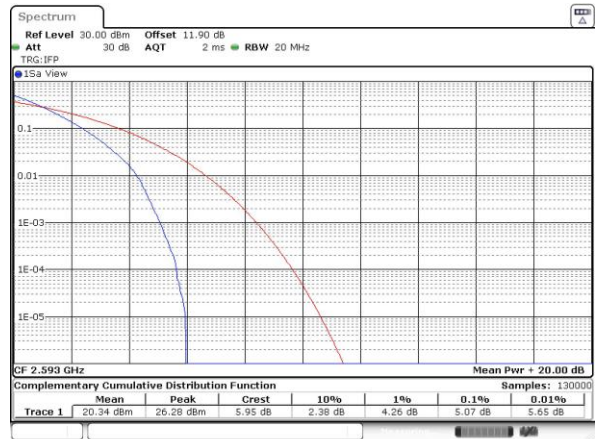
Lowest Channel / Full RB



Middle Channel / 1RB



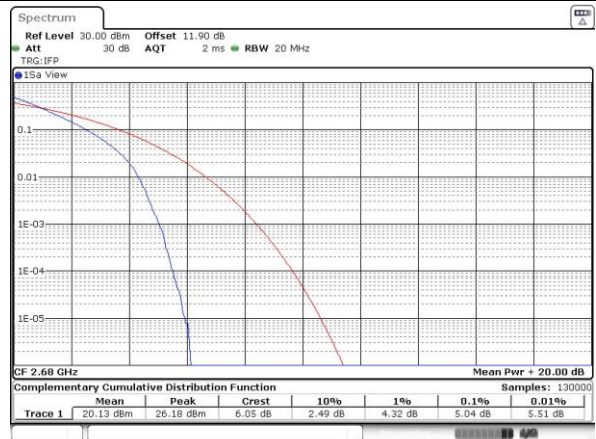
Middle Channel / Full RB



Highest Channel / 1RB



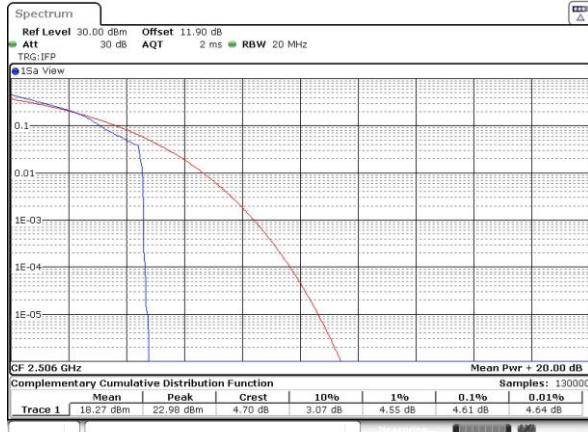
Highest Channel / Full RB



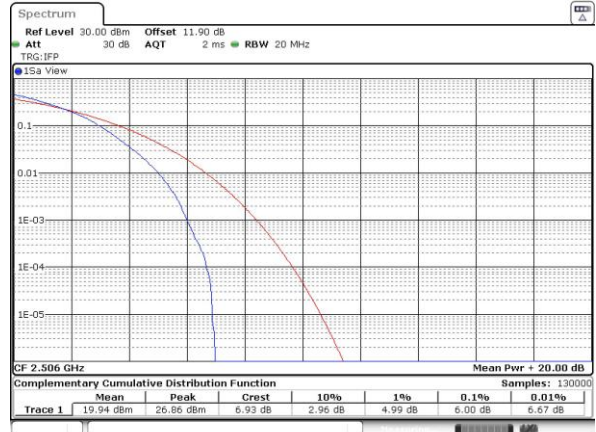


LTE Band 41 / 20MHz / 16QAM

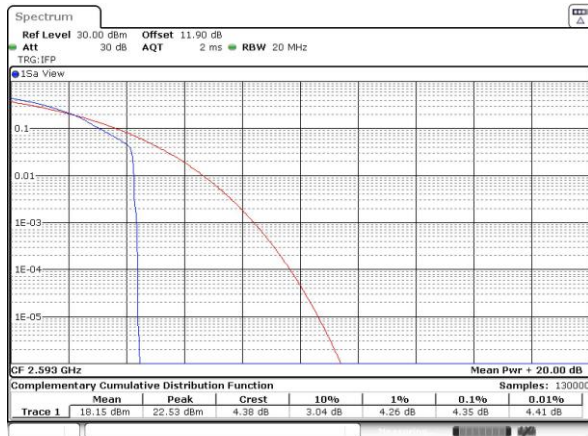
Lowest Channel / 1RB



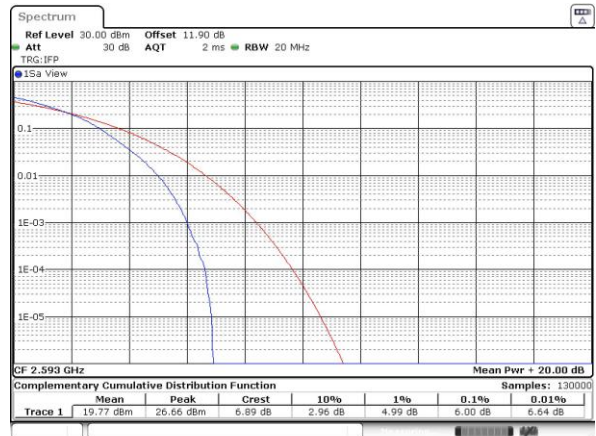
Lowest Channel / Full RB



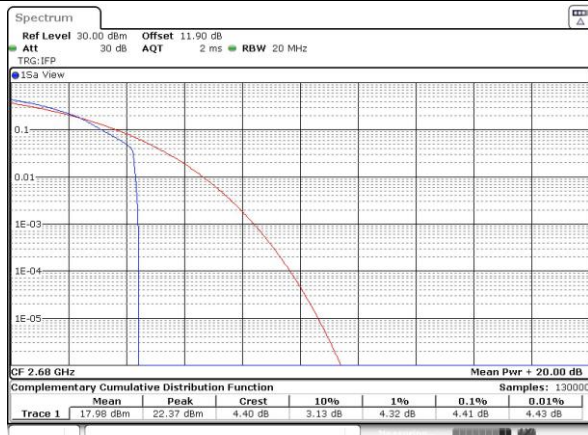
Middle Channel / 1RB



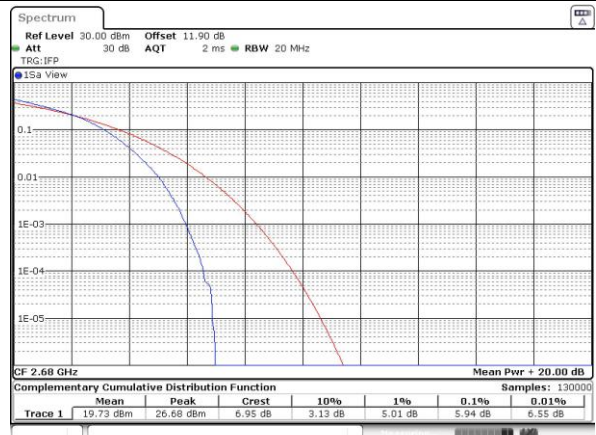
Middle Channel / Full RB

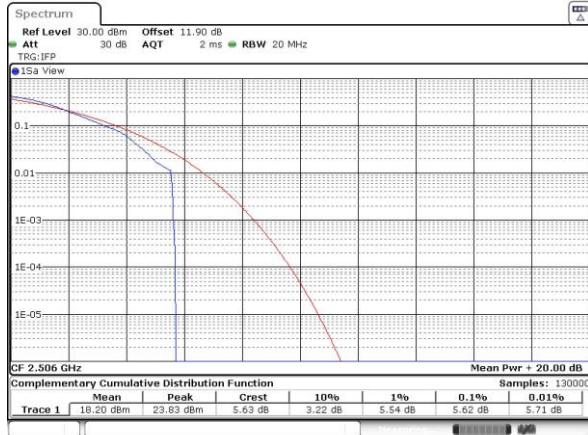


Highest Channel / 1RB

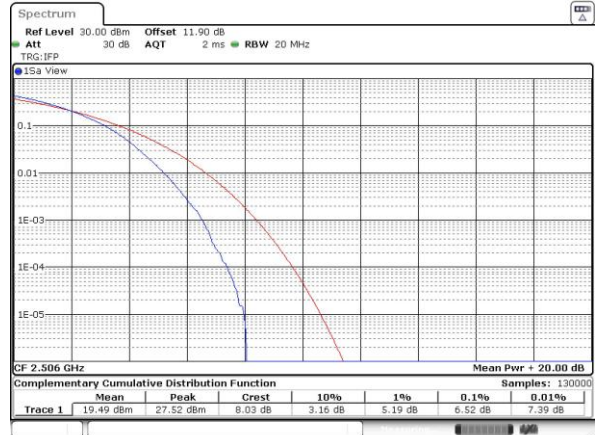


Highest Channel / Full RB

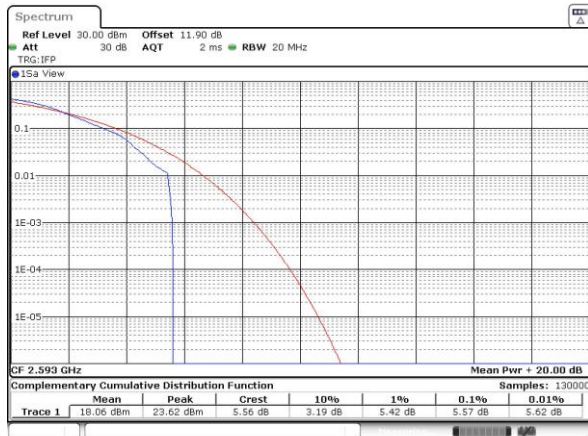


LTE Band 41 / 20MHz / 64QAM
Lowest Channel / 1RB


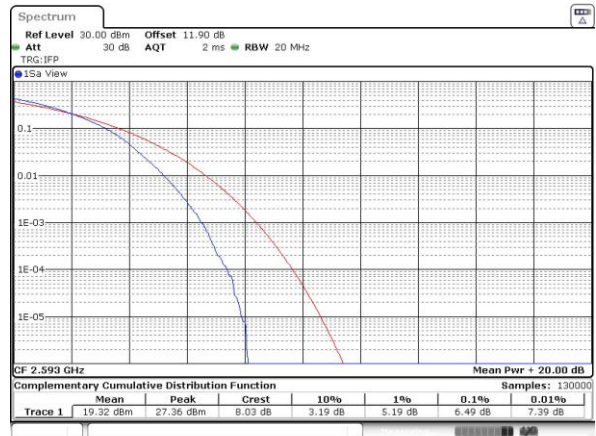
Date: 28 JUN 2019 14:30:38

Lowest Channel / Full RB


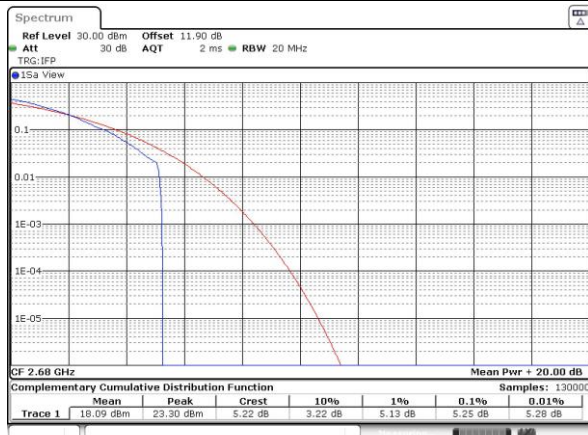
Date: 28 JUN 2019 14:20:21

Middle Channel / 1RB


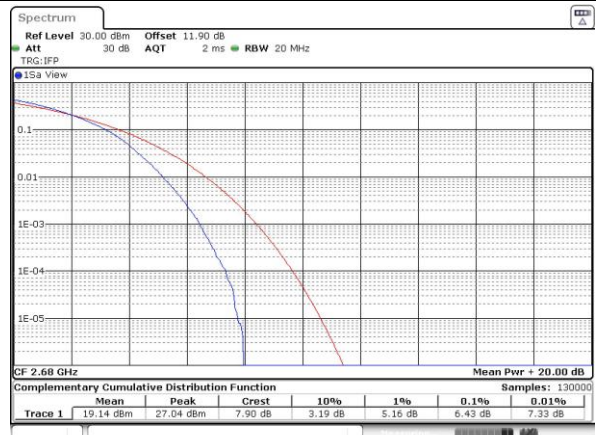
Date: 28 JUN 2019 14:20:41

Middle Channel / Full RB


Date: 28 JUN 2019 14:20:58

Highest Channel / 1RB


Date: 28 JUN 2019 14:21:14

Highest Channel / Full RB


Date: 28 JUN 2019 14:21:31

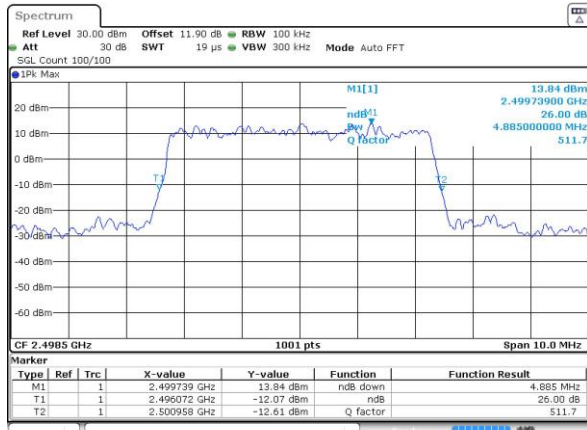
**26dB Bandwidth**

Mode	LTE Band 41 : 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	-	-	-	-	4.89	4.77	9.77	9.67	14.30	14.15	18.82	18.78
Middle CH	-	-	-	-	4.88	4.72	9.67	9.65	14.18	14.51	19.26	19.06
Highest CH	-	-	-	-	4.83	4.79	9.83	9.73	14.51	14.27	18.78	18.82
Mode	LTE Band 41 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.93	-	9.77	-	14.18	-	18.78	-
Middle CH	-	-	-	-	4.71	-	9.71	-	14.21	-	18.94	-
Highest CH	-	-	-	-	4.86	-	9.65	-	14.21	-	18.86	-



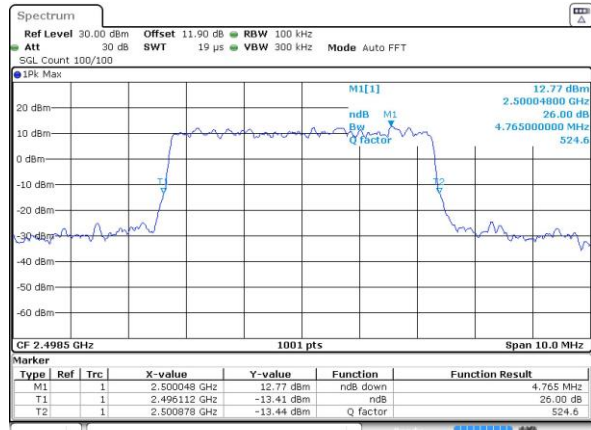
LTE Band 41

Lowest Channel / 5MHz / QPSK



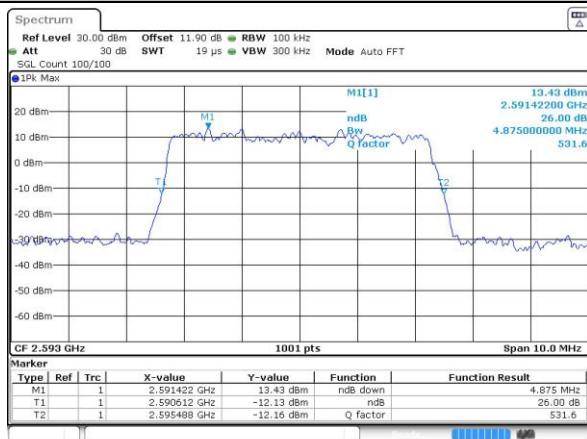
Date: 28 JUN 2019 14:05:02

Lowest Channel / 5MHz / 16QAM



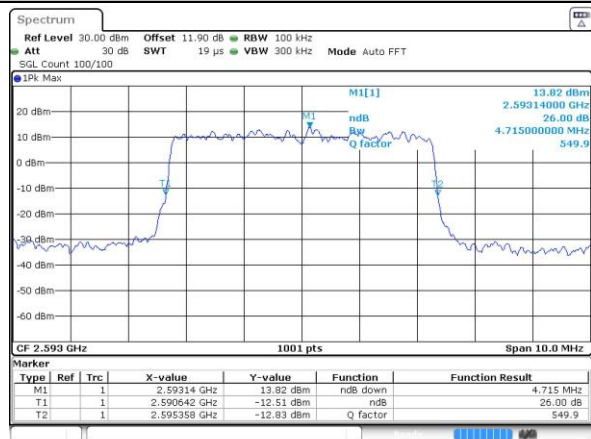
Date: 28 JUN 2019 14:05:14

Middle Channel / 5MHz / QPSK



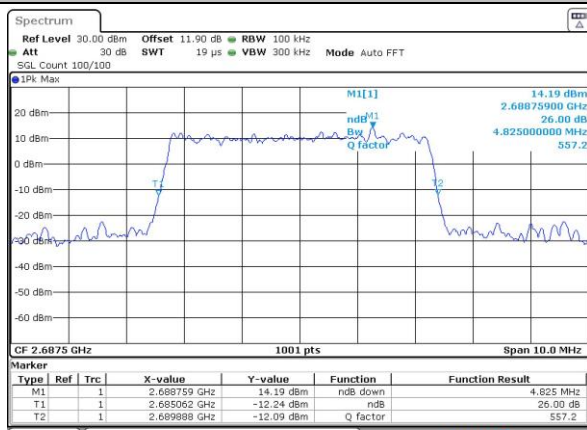
Date: 28 JUN 2019 14:05:50

Middle Channel / 5MHz / 16QAM



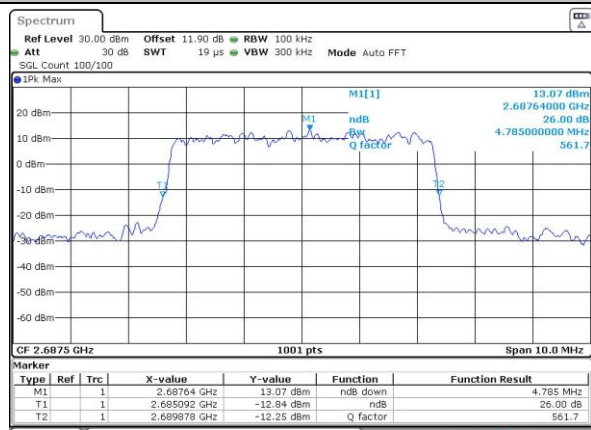
Date: 28 JUN 2019 14:06:02

Highest Channel / 5MHz / QPSK



Date: 28 JUN 2019 14:06:38

Highest Channel / 5MHz / 16QAM

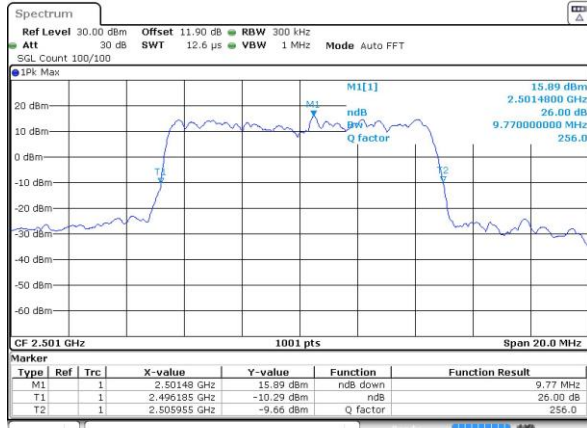


Date: 28 JUN 2019 14:06:50



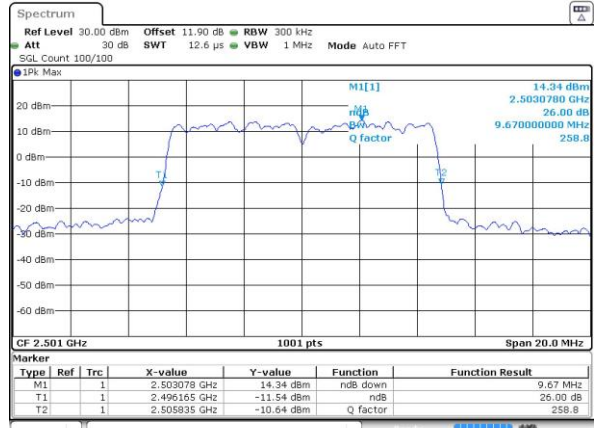
LTE Band 41

Lowest Channel / 10MHz / QPSK



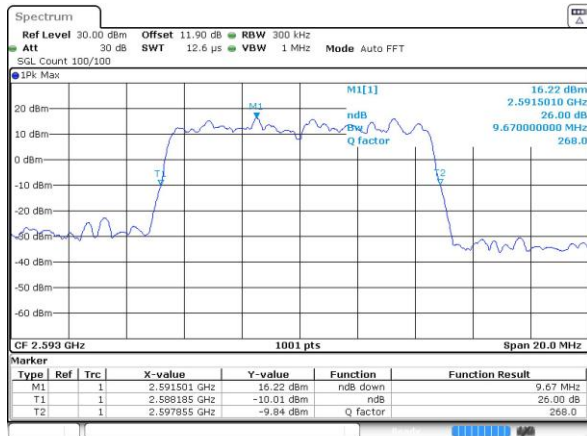
Date: 28 JUN 2019 14:07:29

Lowest Channel / 10MHz / 16QAM



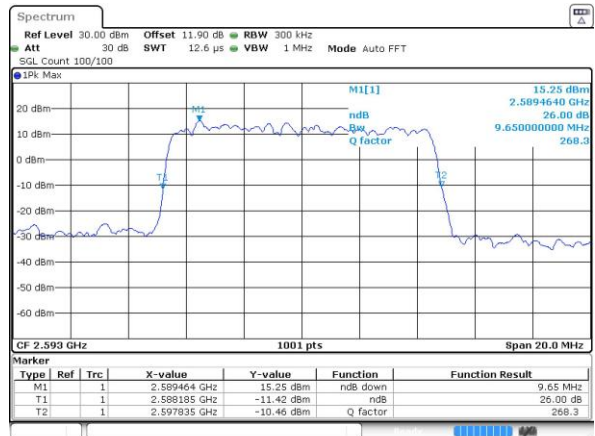
Date: 28 JUN 2019 14:07:41

Middle Channel / 10MHz / QPSK



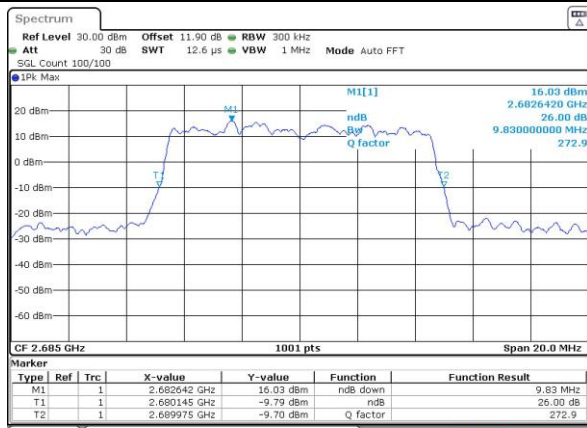
Date: 28 JUN 2019 14:08:16

Middle Channel / 10MHz / 16QAM



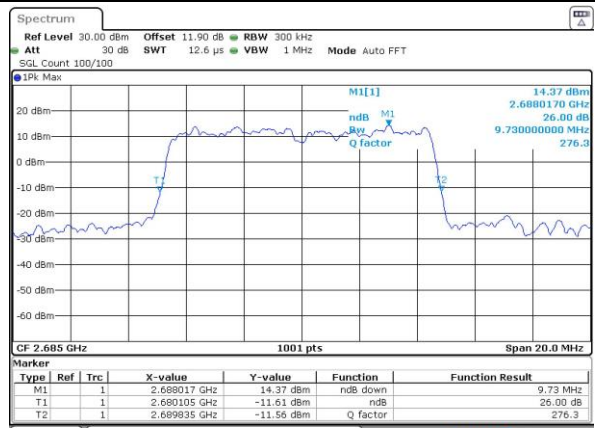
Date: 28 JUN 2019 14:08:28

Highest Channel / 10MHz / QPSK



Date: 28 JUN 2019 14:09:05

Highest Channel / 10MHz / 16QAM

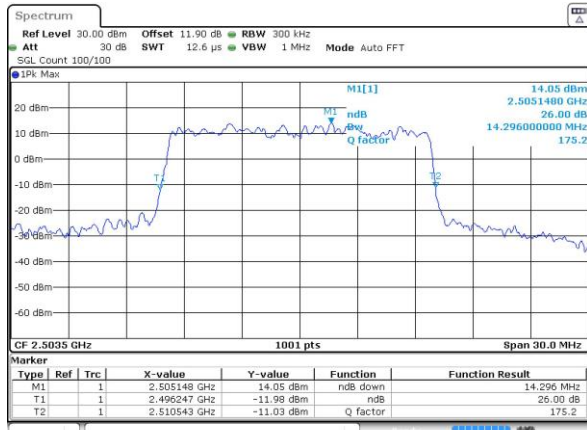


Date: 28 JUN 2019 14:09:17



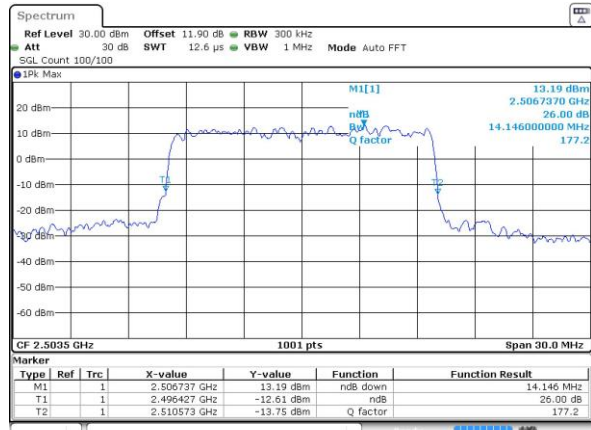
LTE Band 41

Lowest Channel / 15MHz / QPSK



Date: 28 JUN 2019 14:09:55

Lowest Channel / 15MHz / 16QAM



Date: 28 JUN 2019 14:10:08

Middle Channel / 15MHz / QPSK



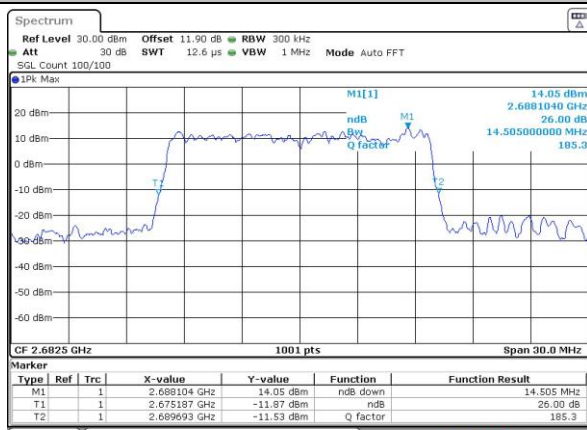
Date: 28 JUN 2019 14:10:43

Middle Channel / 15MHz / 16QAM



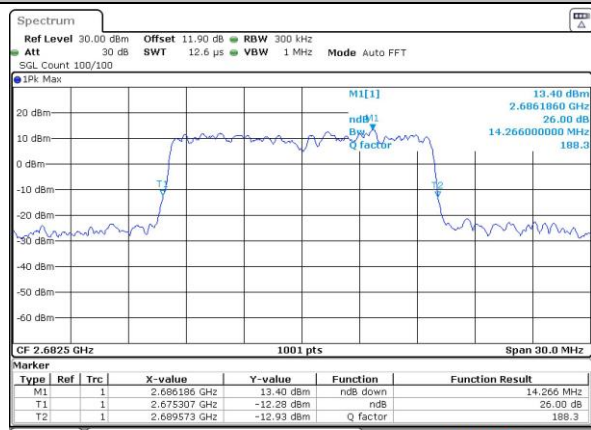
Date: 28 JUN 2019 14:10:55

Highest Channel / 15MHz / QPSK



Date: 28 JUN 2019 14:11:32

Highest Channel / 15MHz / 16QAM

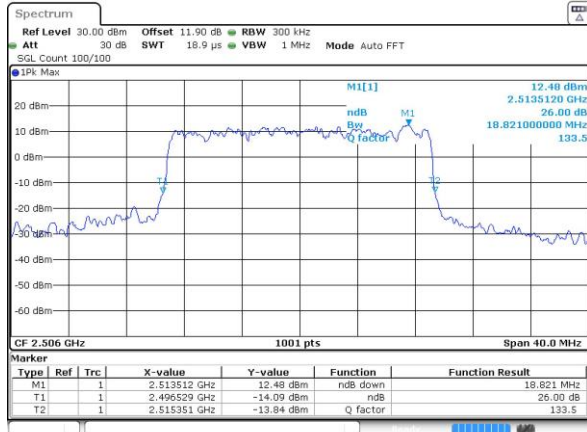


Date: 28 JUN 2019 14:11:44



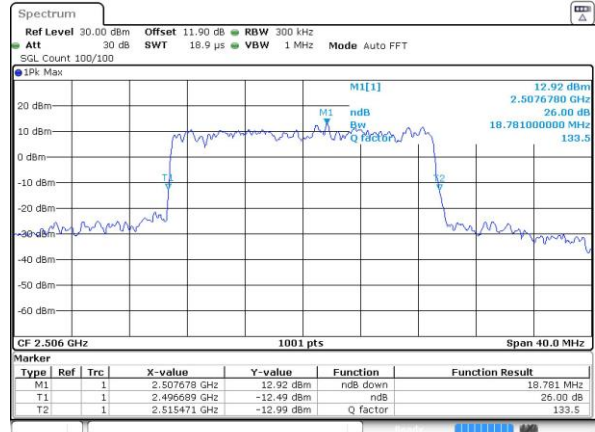
LTE Band 41

Lowest Channel / 20MHz / QPSK



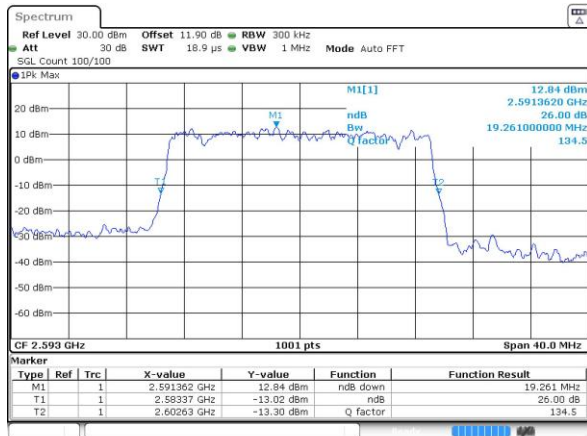
Date: 28 JUN 2019 14:12:22

Lowest Channel / 20MHz / 16QAM



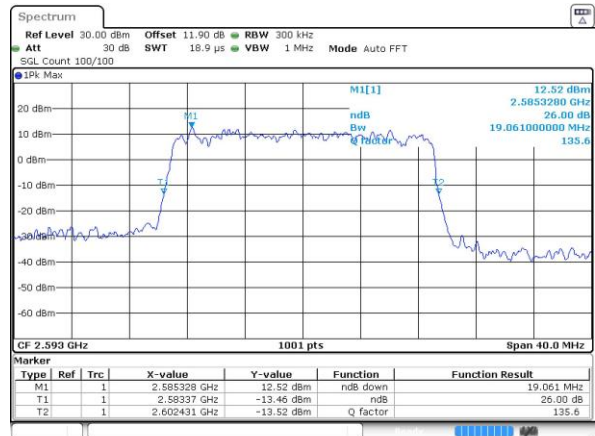
Date: 28 JUN 2019 14:12:35

Middle Channel / 20MHz / QPSK



Date: 28 JUN 2019 14:13:10

Middle Channel / 20MHz / 16QAM



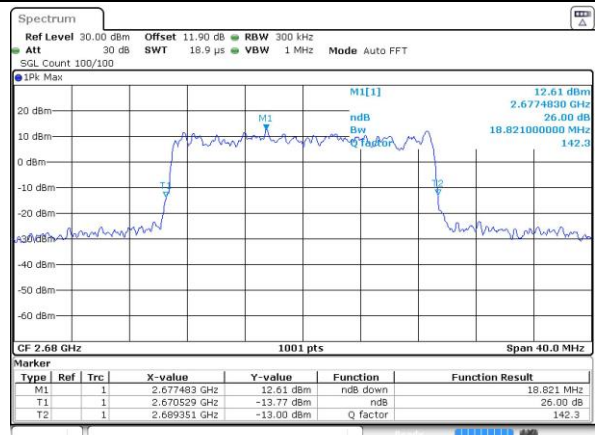
Date: 28 JUN 2019 14:13:22

Highest Channel / 20MHz / QPSK



Date: 28 JUN 2019 14:13:58

Highest Channel / 20MHz / 16QAM

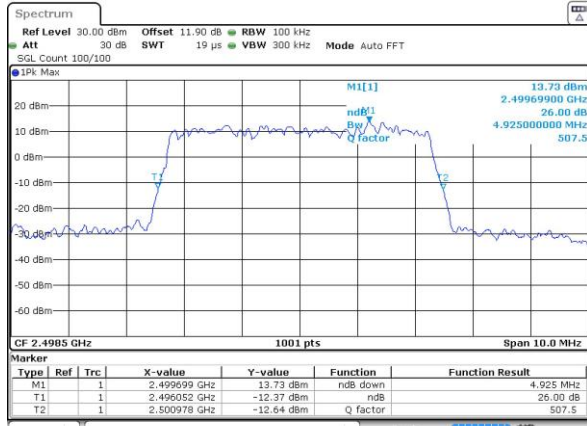


Date: 28 JUN 2019 14:14:10



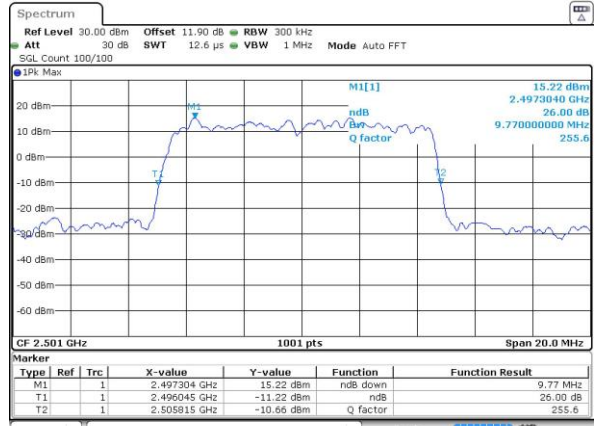
LTE Band 41

Lowest Channel / 5MHz / 64QAM



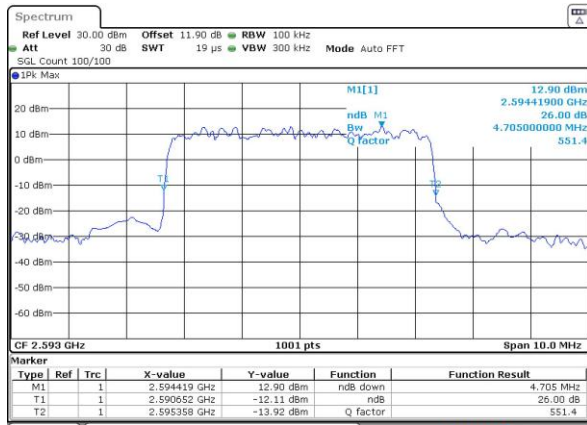
Date: 28 JUN 2019 14:14:36

Lowest Channel / 10MHz / 64QAM



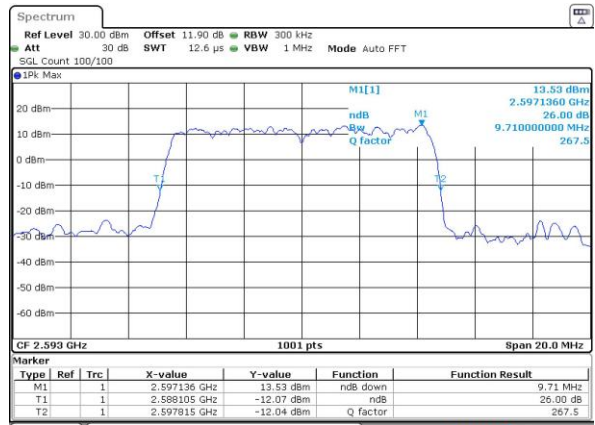
Date: 28 JUN 2019 14:15:50

Middle Channel / 5MHz / 64QAM



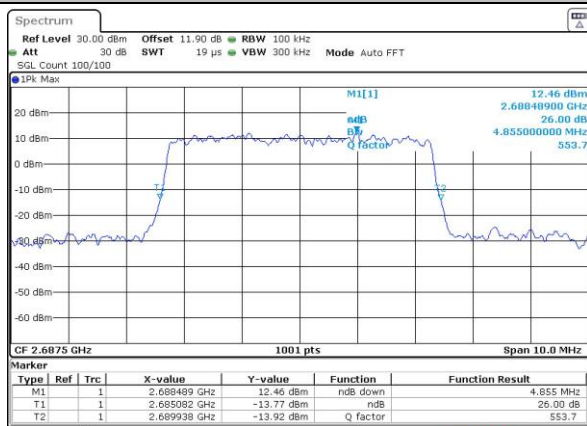
Date: 28 JUN 2019 14:15:00

Middle Channel / 10MHz / 64QAM



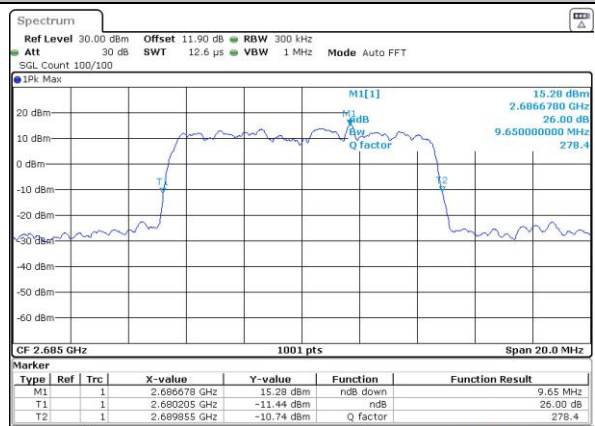
Date: 28 JUN 2019 14:16:13

Highest Channel / 5MHz / 64QAM



Date: 28 JUN 2019 14:15:24

Highest Channel / 10MHz / 64QAM



Date: 28 JUN 2019 14:16:37