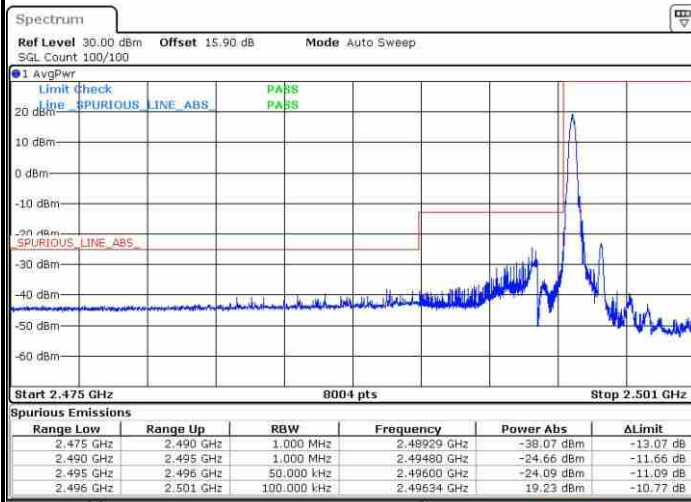




LTE Band 41 / 5MHz / 64QAM

Lowest Band Edge / 1RB



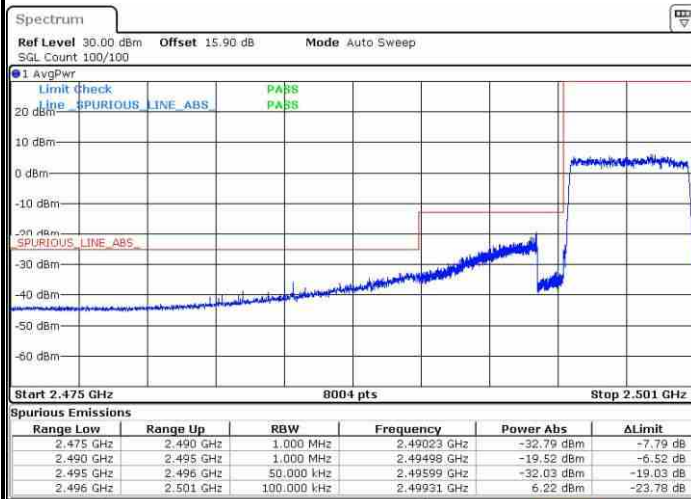
Date: 27.FEB.2019 10:09:25

Highest Band Edge / 1 RB



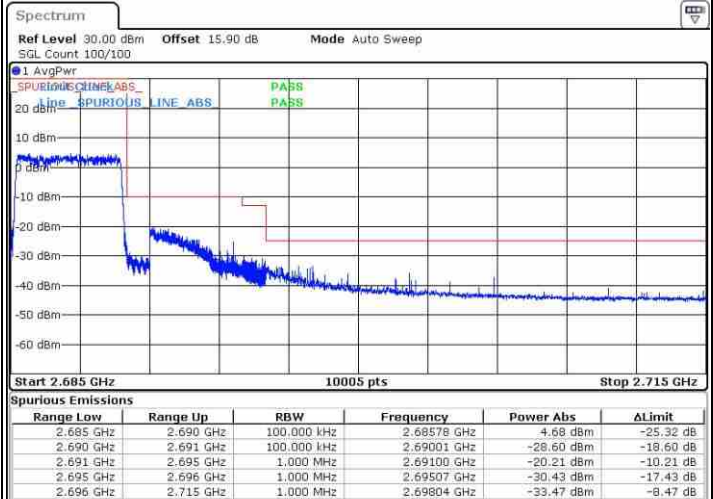
Date: 27.FEB.2019 10:10:46

Lowest Band Edge / Full RB



Date: 27.FEB.2019 10:10:05

Highest Band Edge / Full RB

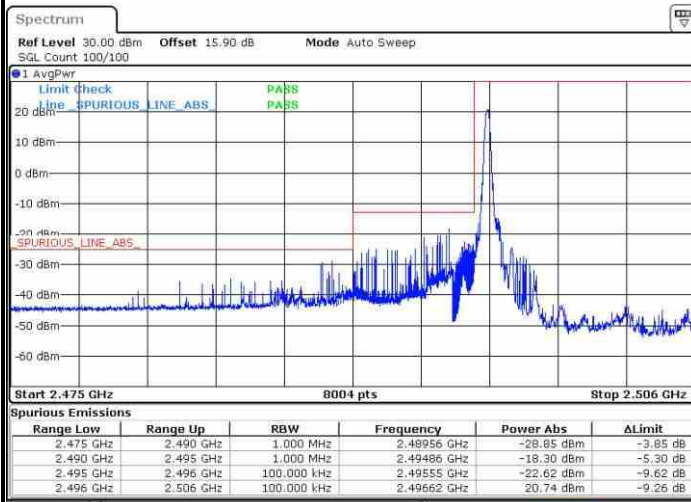


Date: 27.FEB.2019 10:11:26

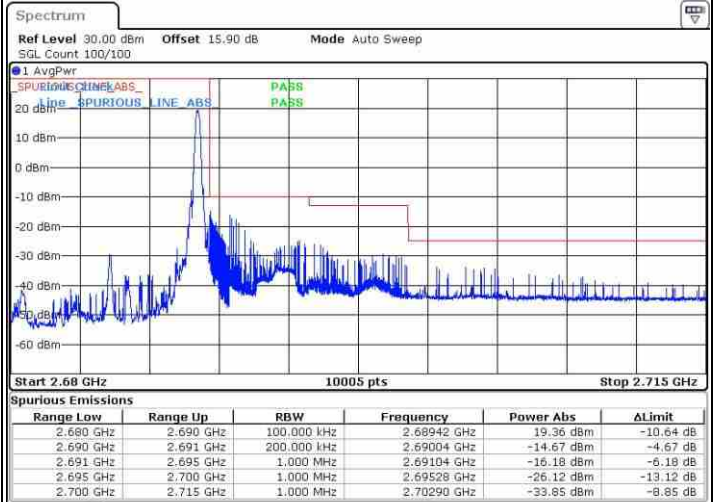


LTE Band 41 / 10MHz / QPSK

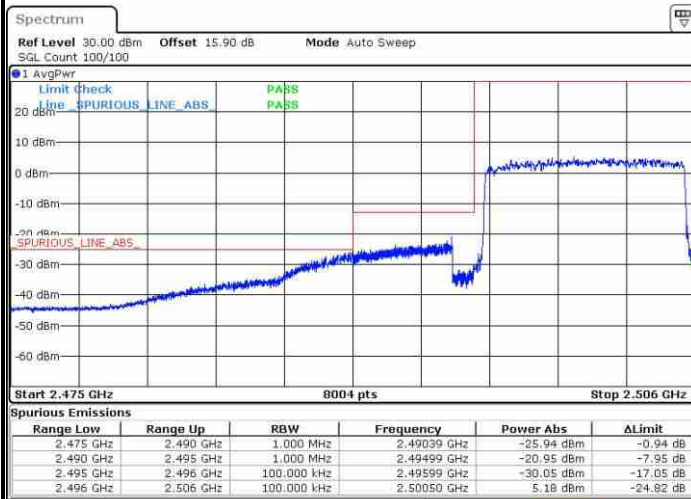
Lowest Band Edge / 1 RB



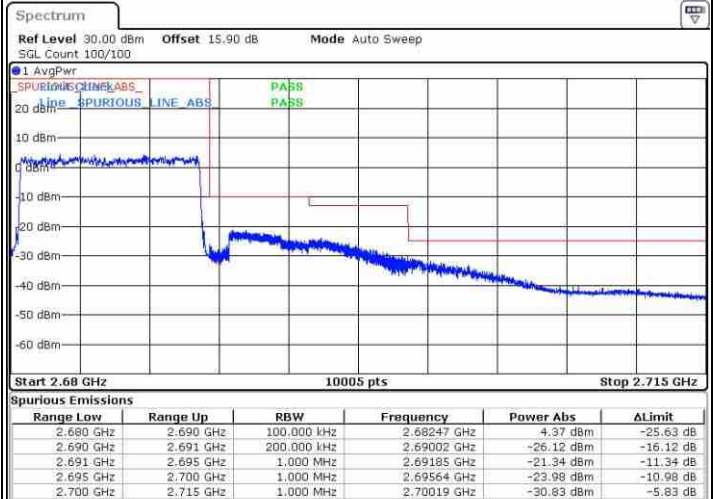
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



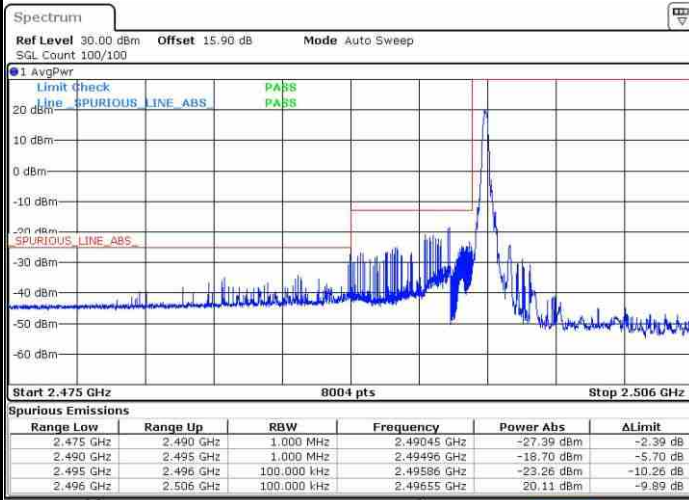
Highest Band Edge / Full RB



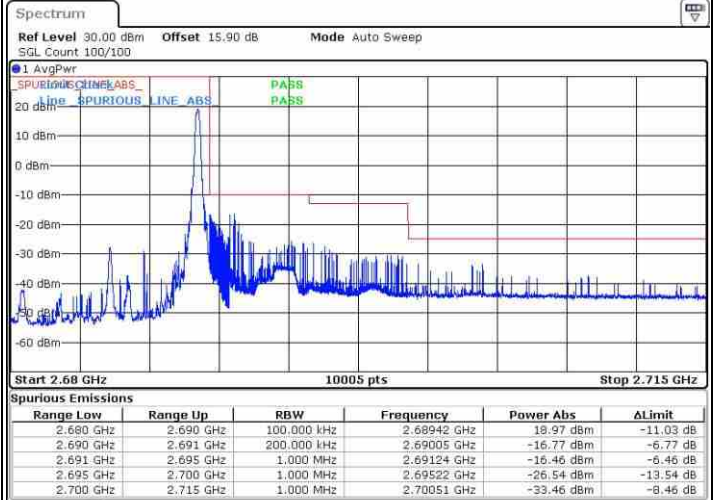


LTE Band 41 / 10MHz / 16QAM

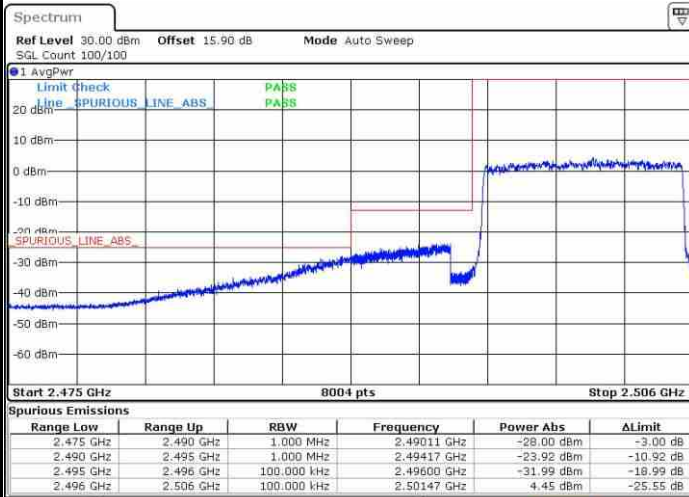
Lowest Band Edge / 1 RB



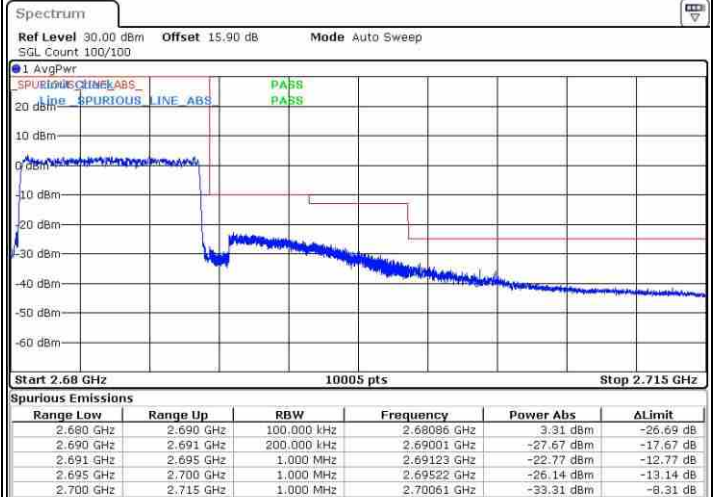
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



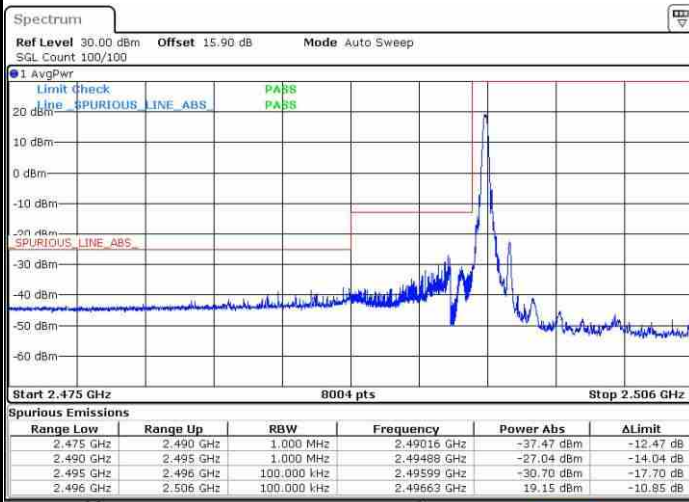
Highest Band Edge / Full RB





LTE Band 41 / 10MHz / 64QAM

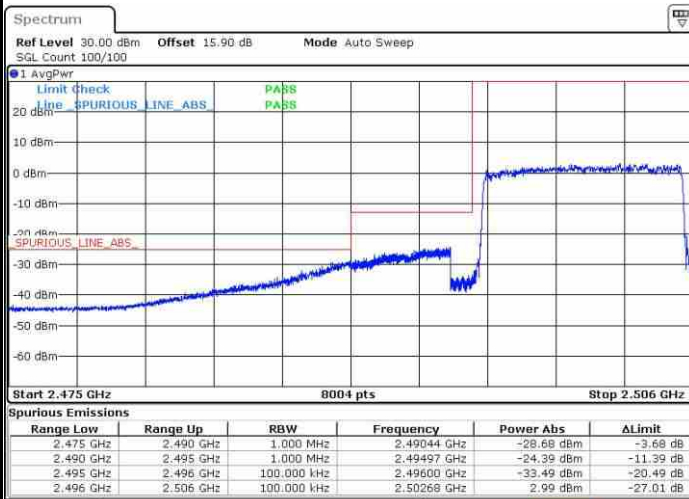
Lowest Band Edge / 1 RB



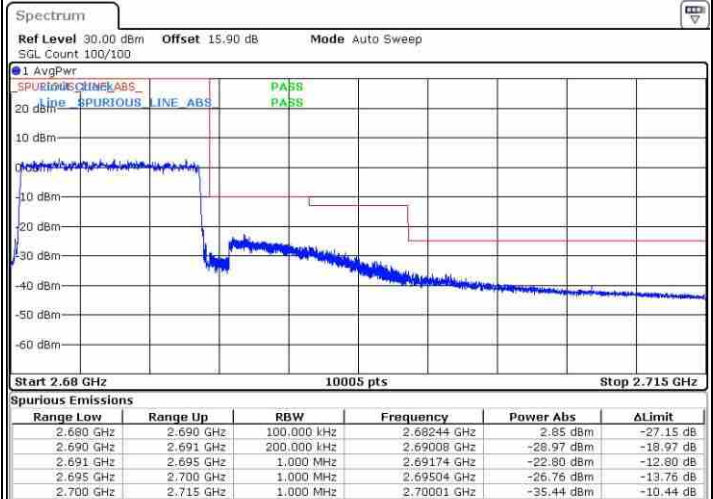
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



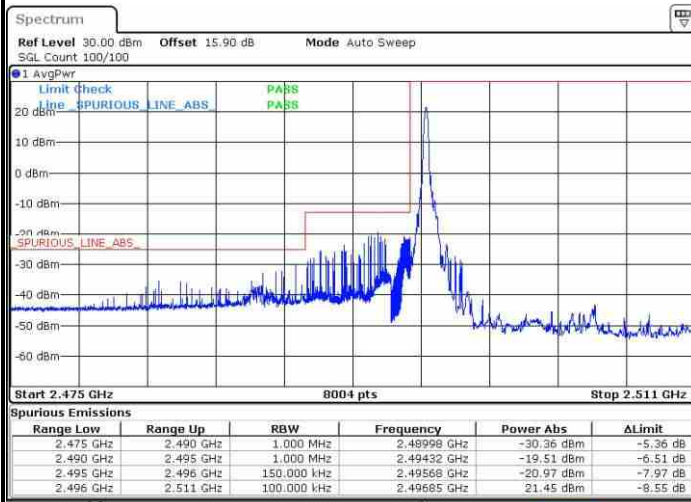
Highest Band Edge / Full RB





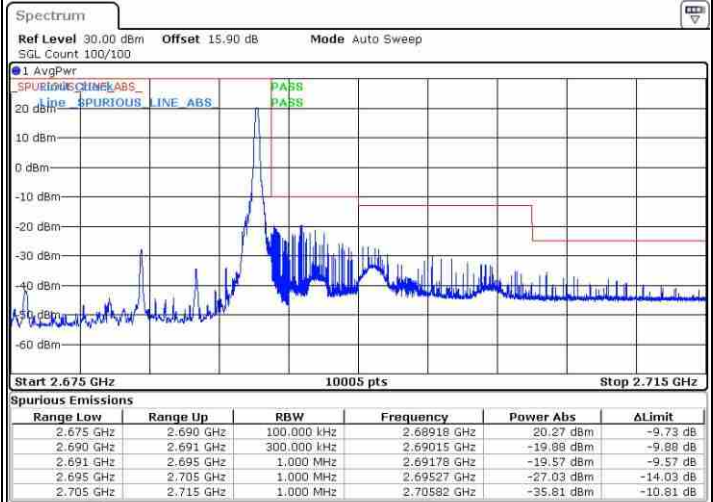
LTE Band 41 / 15MHz / QPSK

Lowest Band Edge / 1 RB



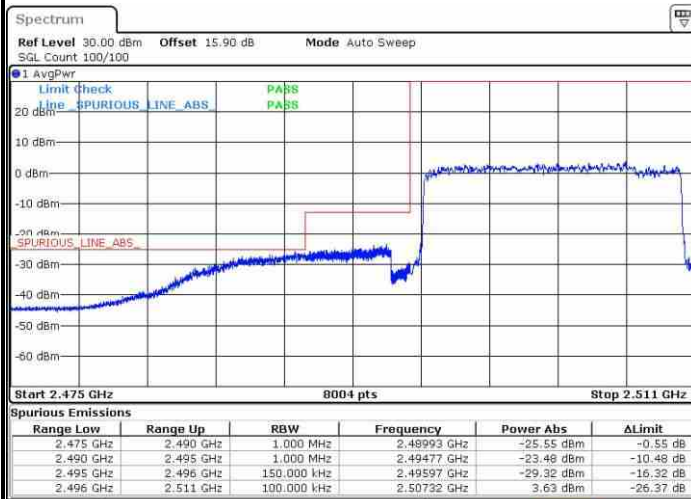
Date: 27.FEB.2019 09:58:35

Highest Band Edge / 1 RB



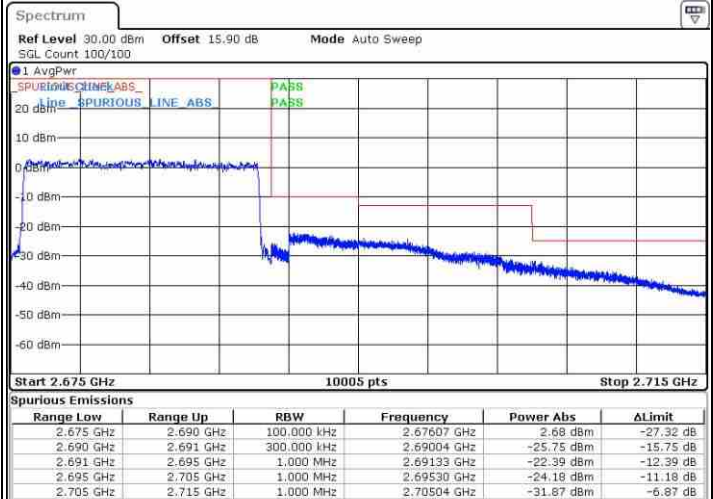
Date: 27.FEB.2019 10:01:18

Lowest Band Edge / Full RB



Date: 27.FEB.2019 09:59:57

Highest Band Edge / Full RB

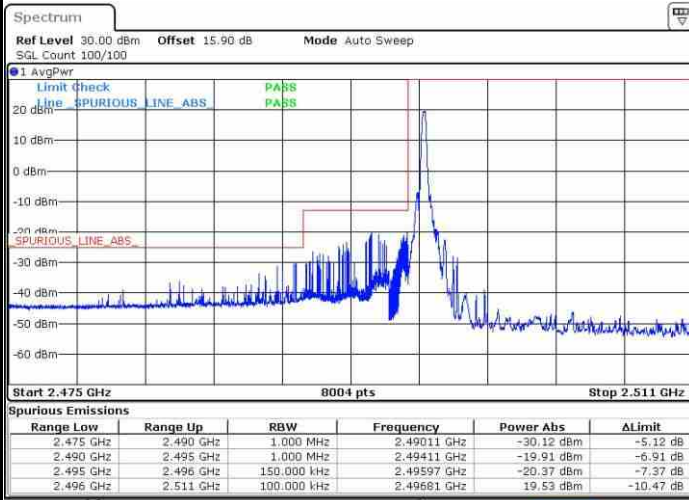


Date: 27.FEB.2019 10:02:39

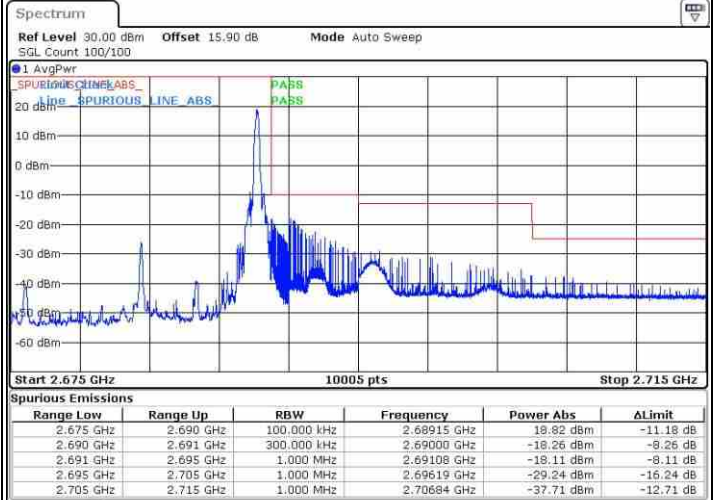


LTE Band 41 / 15MHz / 16QAM

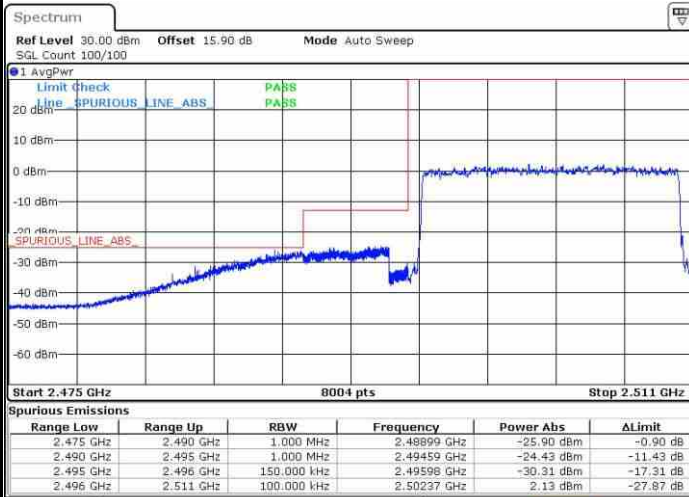
Lowest Band Edge / 1 RB



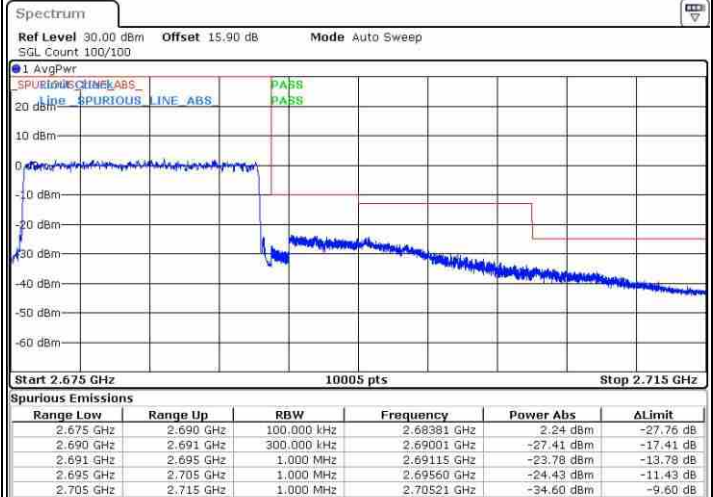
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



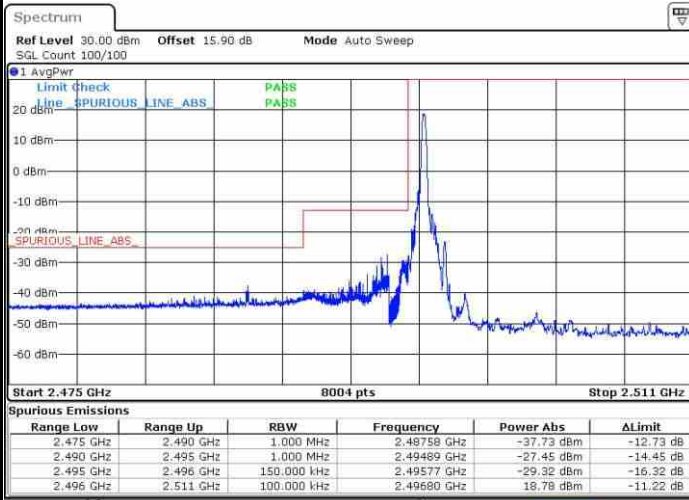
Highest Band Edge / Full RB



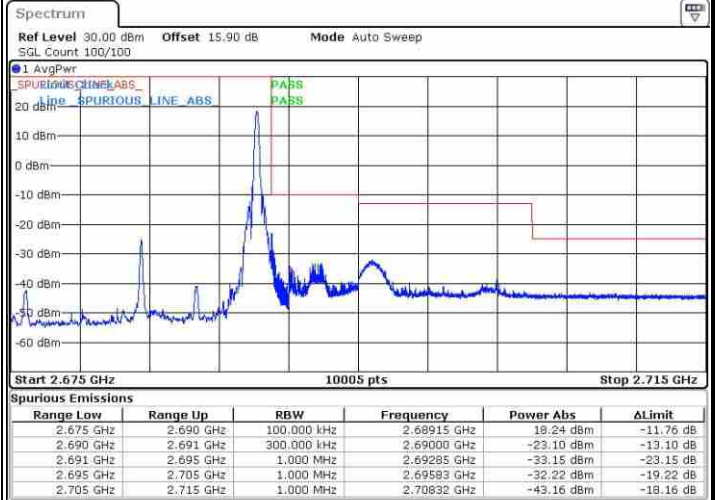


LTE Band 41 / 15MHz / 64QAM

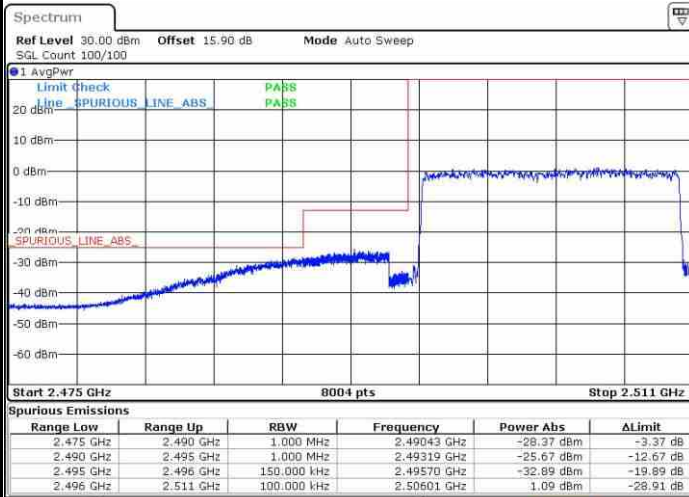
Lowest Band Edge / 1 RB



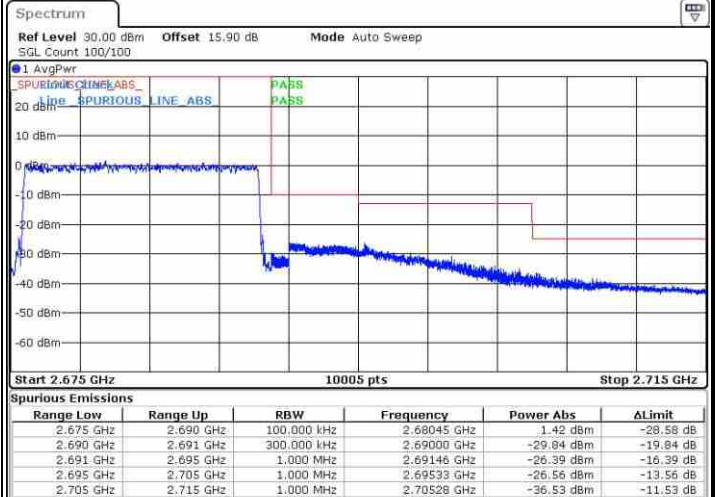
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



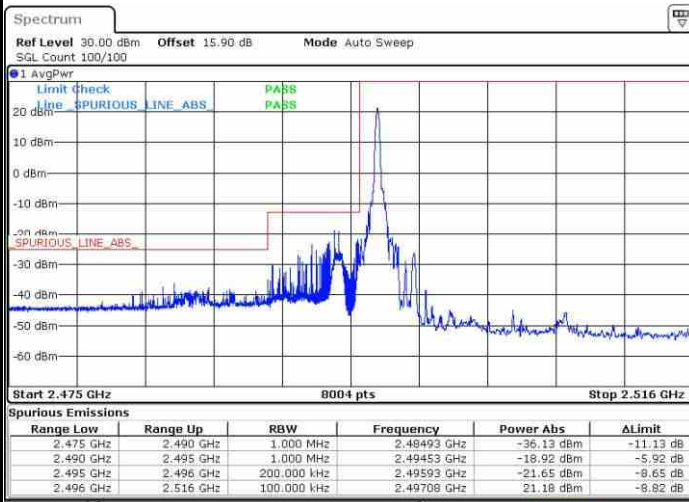
Highest Band Edge / Full RB



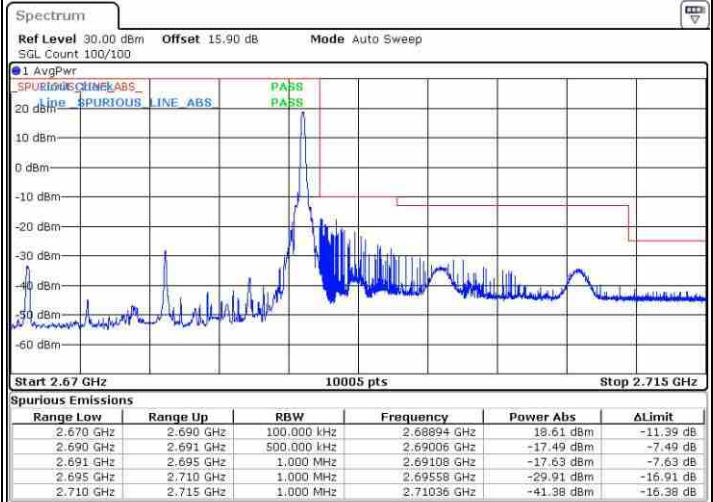


LTE Band 41 / 20MHz / QPSK

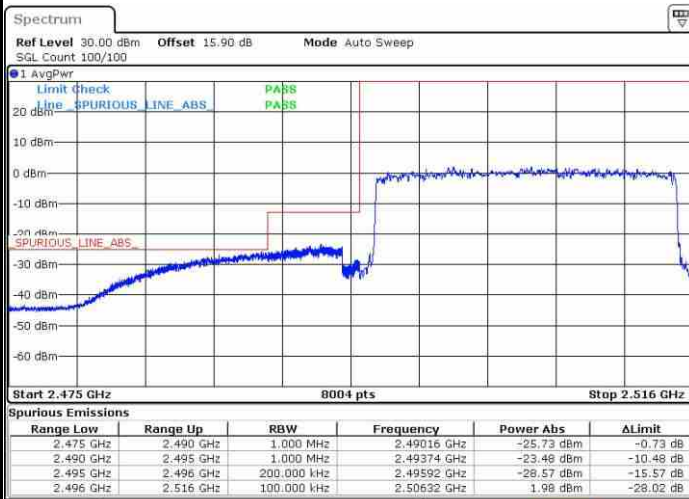
Lowest Band Edge / 1 RB



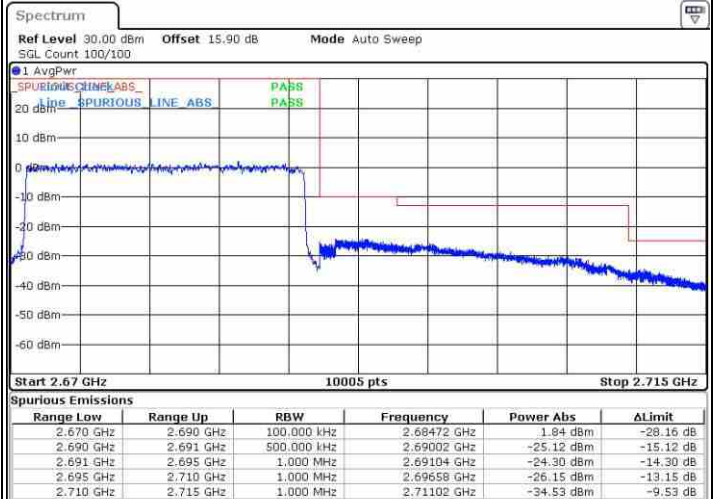
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



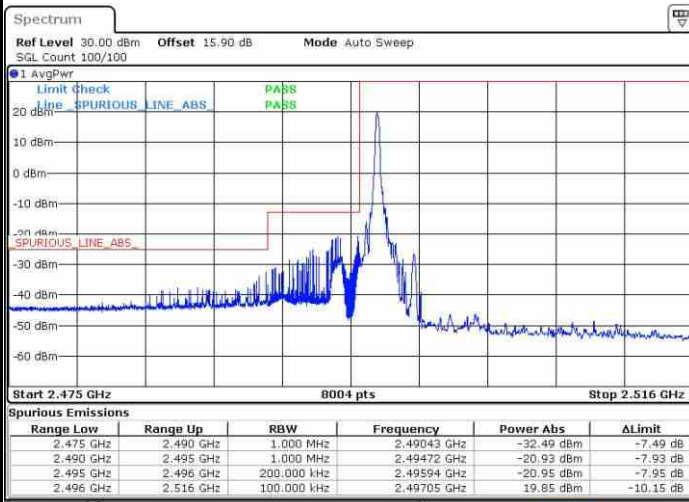
Highest Band Edge / Full RB





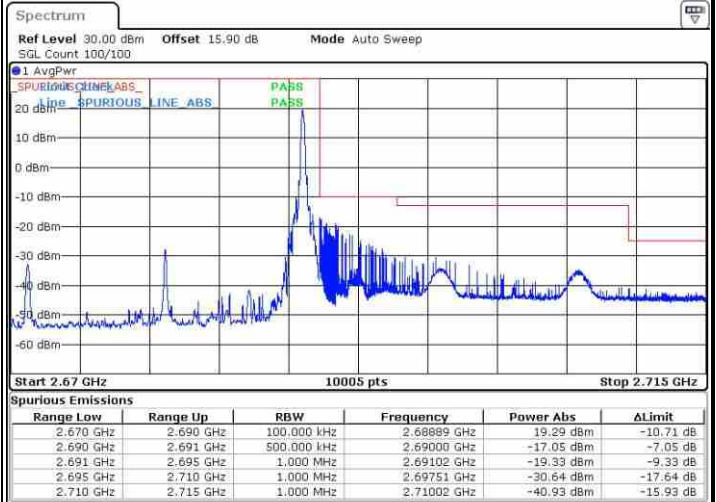
LTE Band 41 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



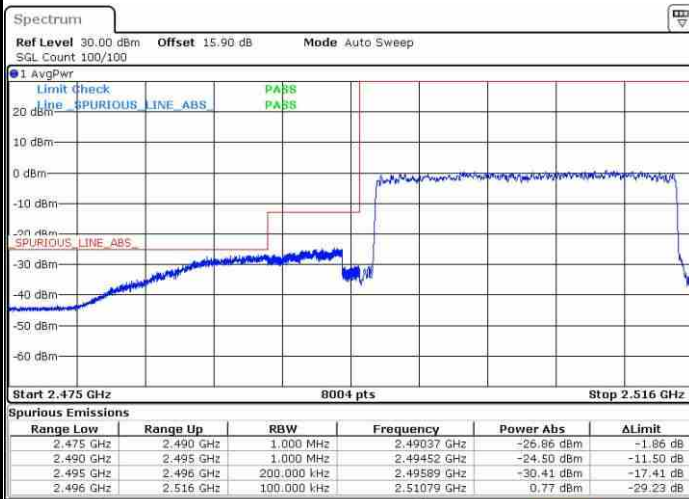
Date: 27.FEB.2019 10:04:41

Highest Band Edge / 1 RB



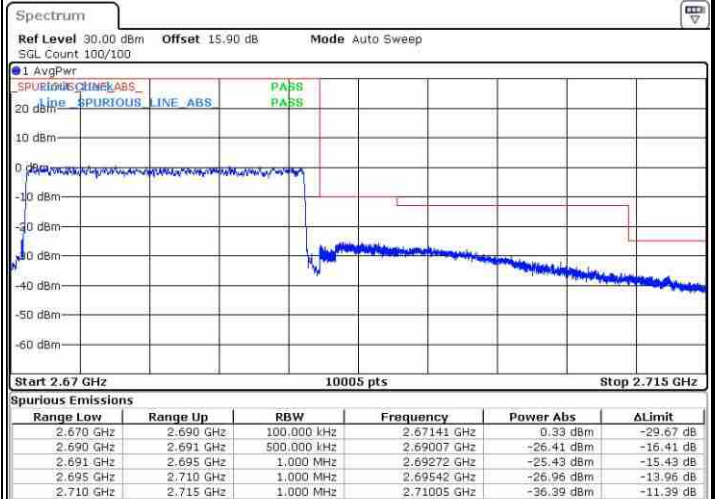
Date: 27.FEB.2019 10:07:23

Lowest Band Edge / Full RB



Date: 27.FEB.2019 10:06:03

Highest Band Edge / Full RB

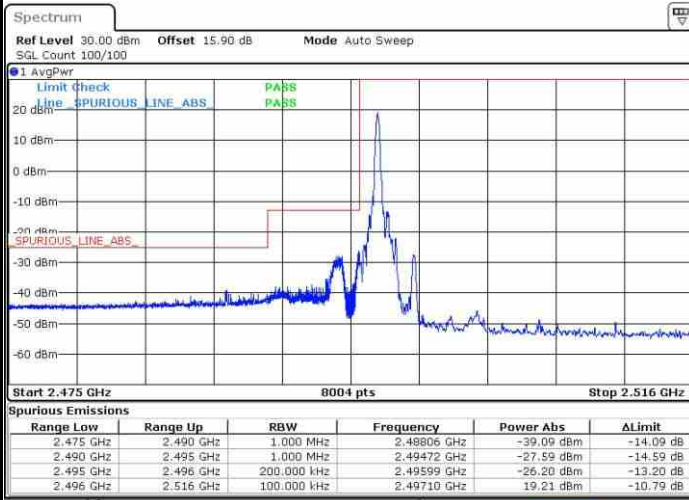


Date: 27.FEB.2019 10:08:04



LTE Band 41 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



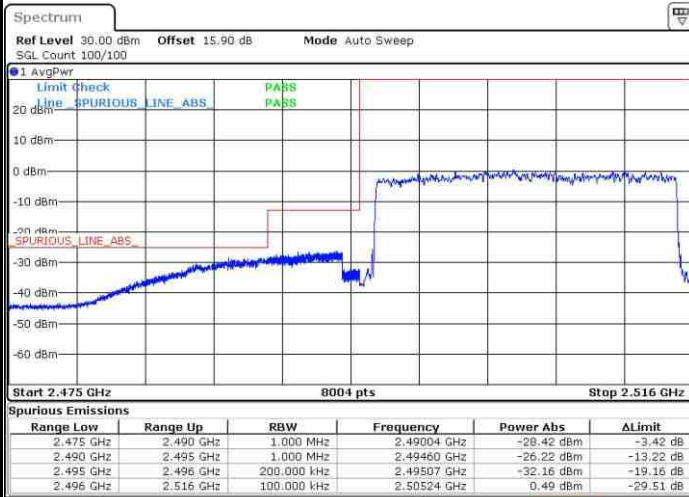
Date: 27.FEB.2019 10:17:32

Highest Band Edge / 1 RB



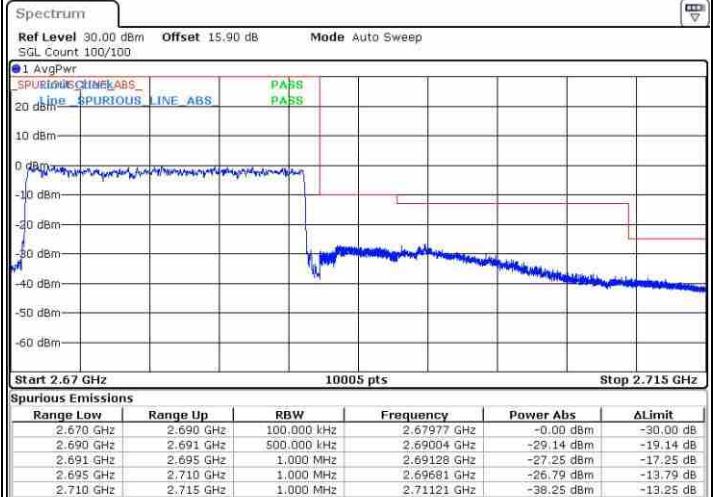
Date: 27.FEB.2019 10:18:53

Lowest Band Edge / Full RB



Date: 27.FEB.2019 10:18:13

Highest Band Edge / Full RB



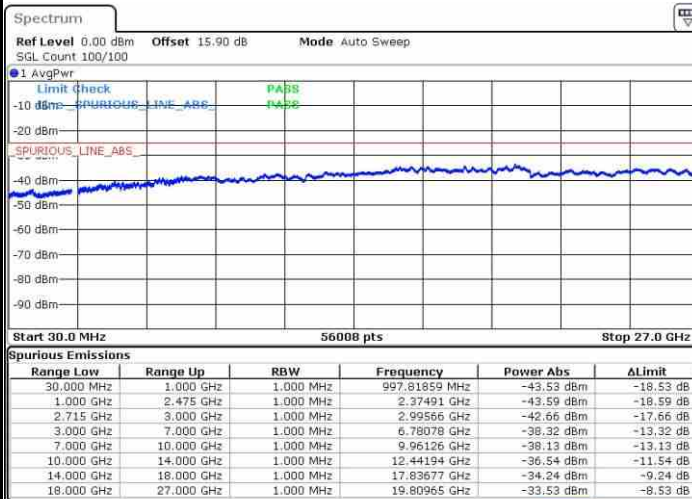
Date: 27.FEB.2019 10:19:34



Conducted Spurious Emission

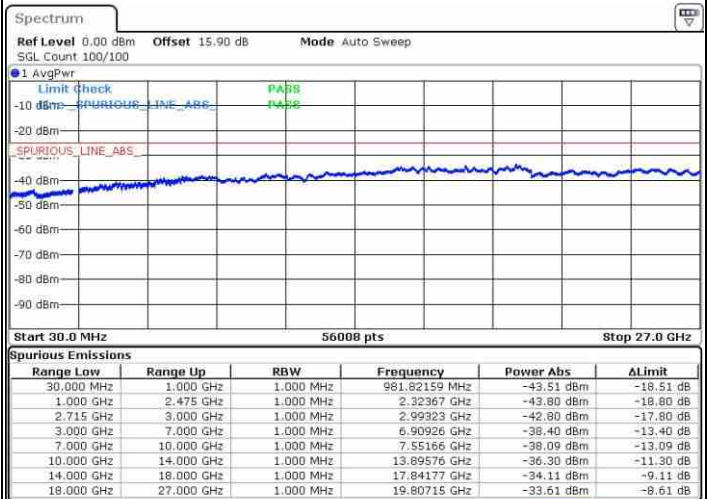
LTE Band 41 / 5MHz

Lowest Channel / QPSK



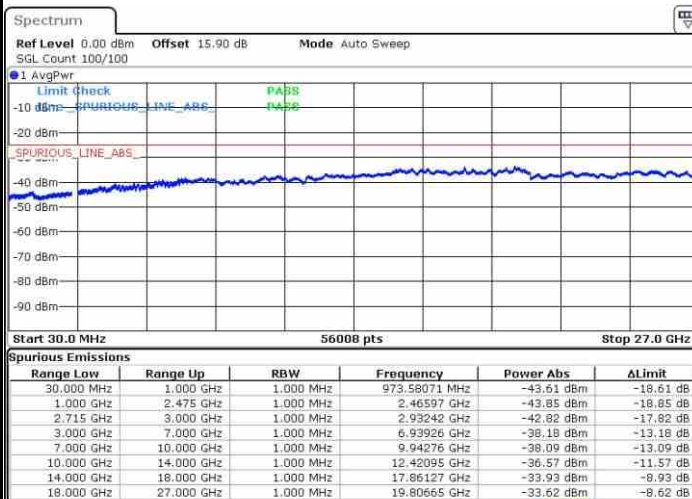
Date: 27.FEB.2019 10:30:32

Lowest Channel / 16QAM



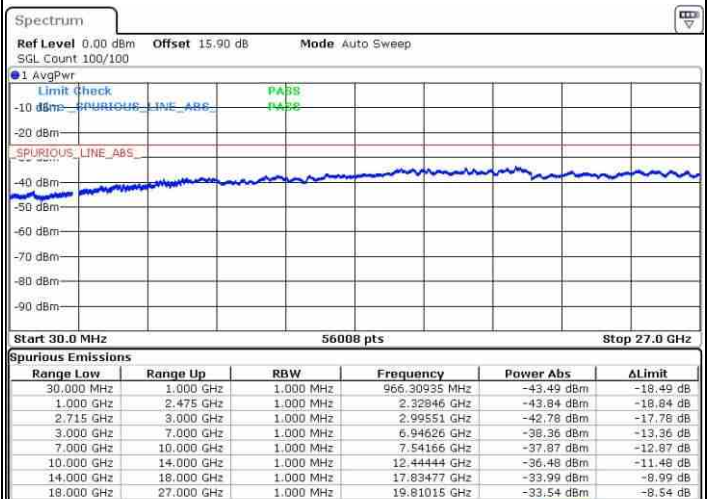
Date: 27.FEB.2019 10:31:23

Middle Channel / QPSK



Date: 27.FEB.2019 10:32:13

Middle Channel / 16QAM

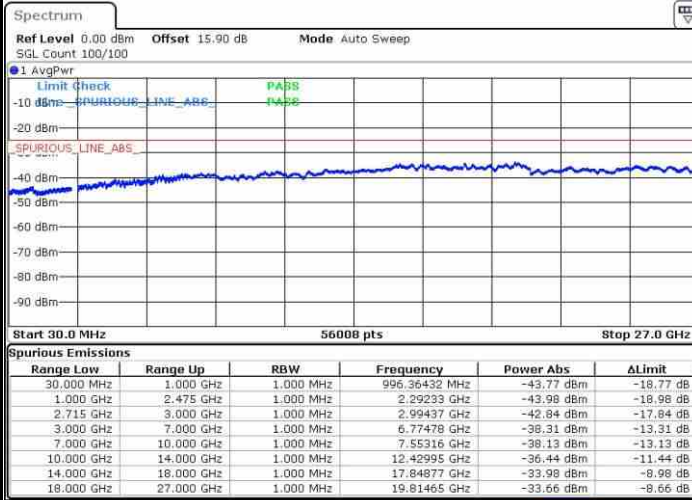


Date: 27.FEB.2019 10:33:04



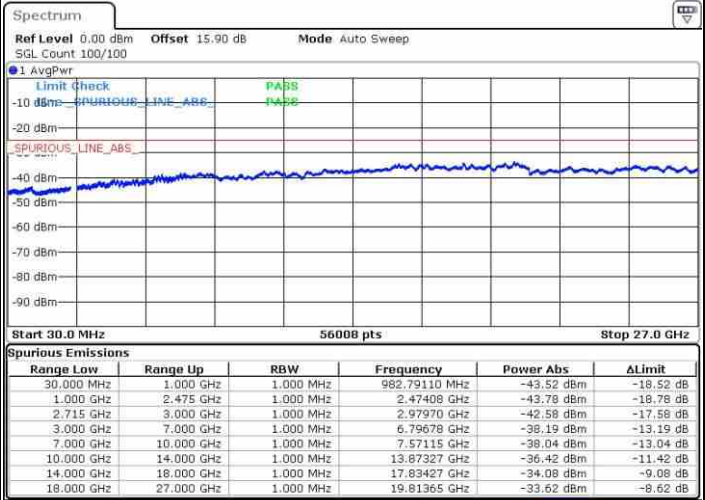
LTE Band 41 / 5MHz

Highest Channel / QPSK



Date: 27.FEB 2019 10:33:54

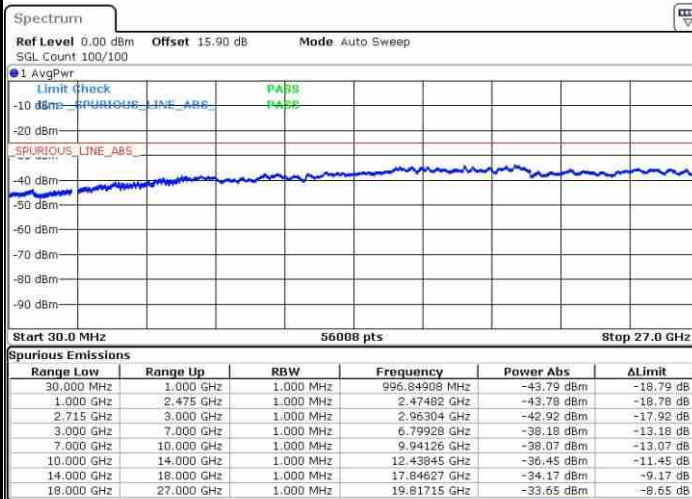
Highest Channel / 16QAM



Date: 27.FEB 2019 10:34:45

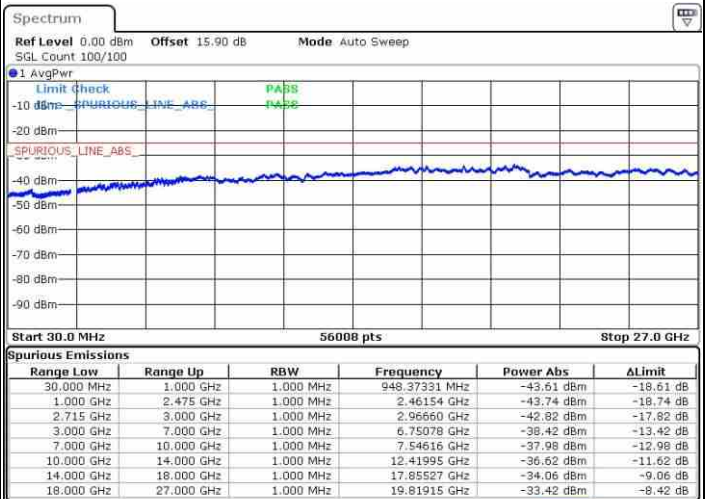
LTE Band 41 / 10MHz

Lowest Channel / QPSK



Date: 27.FEB 2019 10:35:36

Lowest Channel / 16QAM

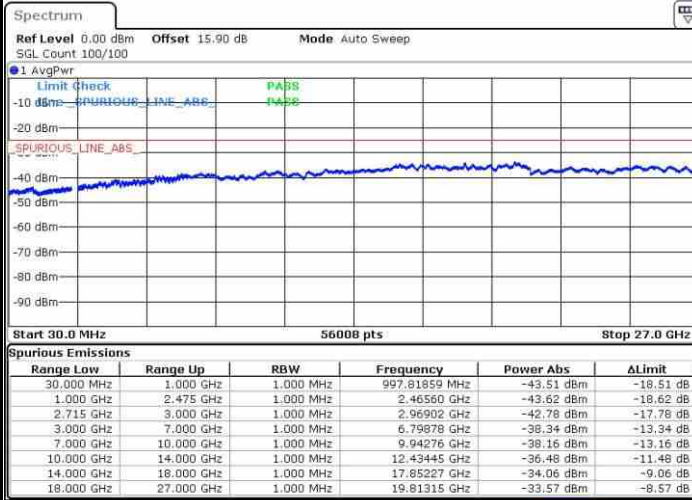


Date: 27.FEB 2019 10:36:26



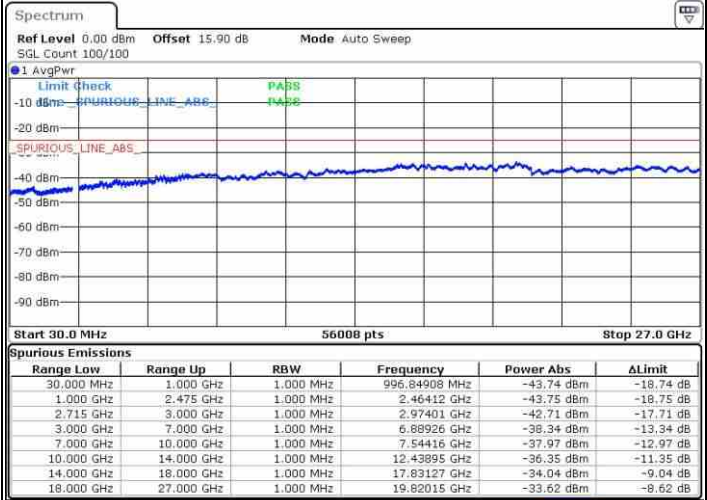
LTE Band 41 / 10MHz

Middle Channel / QPSK



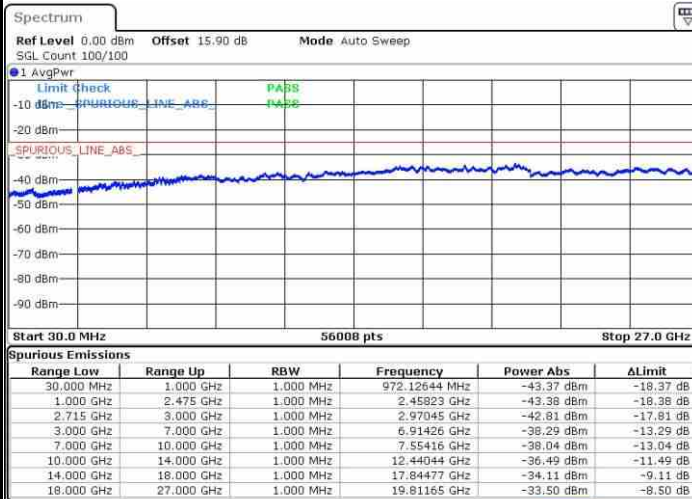
Date: 27.FEB 2019 10:37:17

Middle Channel / 16QAM



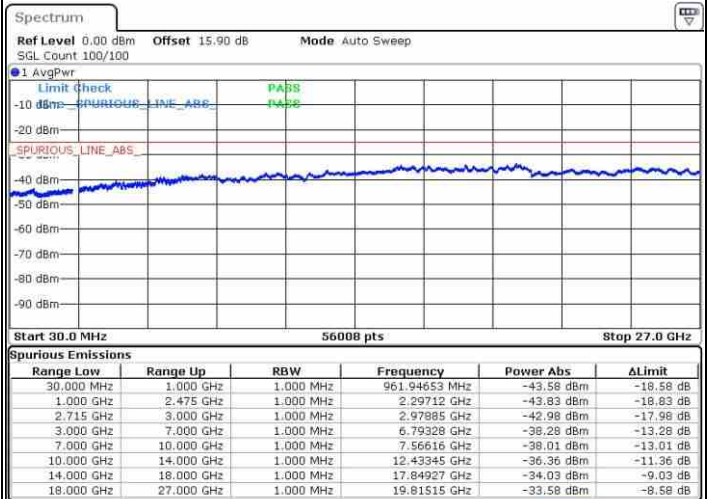
Date: 27.FEB 2019 10:38:08

Highest Channel / QPSK



Date: 27.FEB 2019 10:38:58

Highest Channel / 16QAM

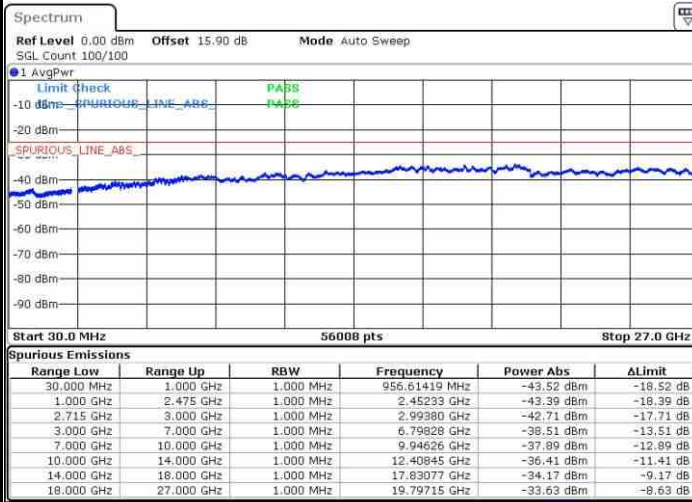


Date: 27.FEB 2019 10:39:49



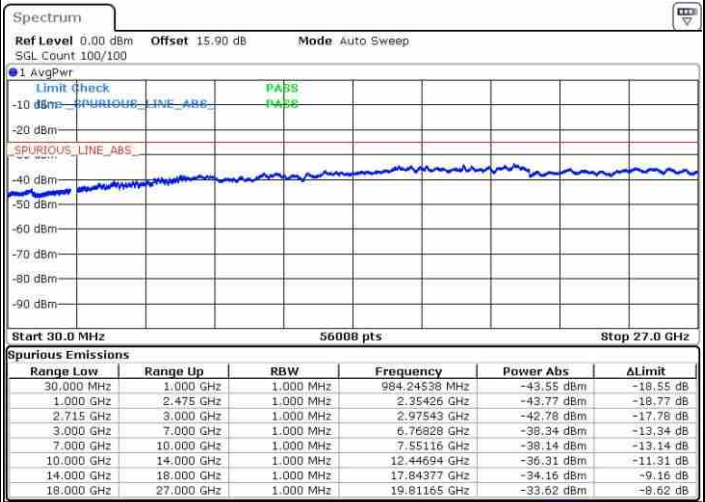
LTE Band 41 / 15MHz

Lowest Channel / QPSK



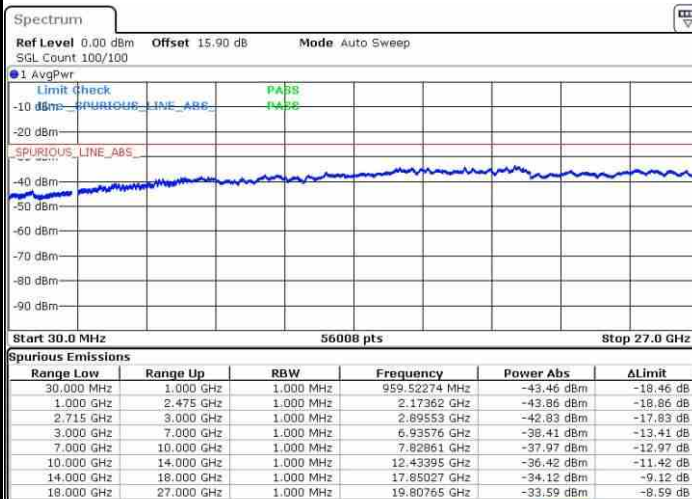
Date: 27.FEB 2019 10:40:39

Lowest Channel / 16QAM



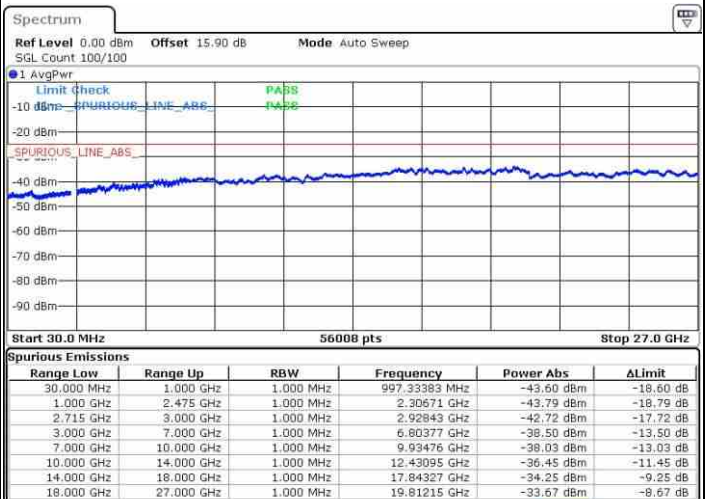
Date: 27.FEB 2019 10:41:30

Middle Channel / QPSK



Date: 27.FEB 2019 10:42:21

Middle Channel / 16QAM

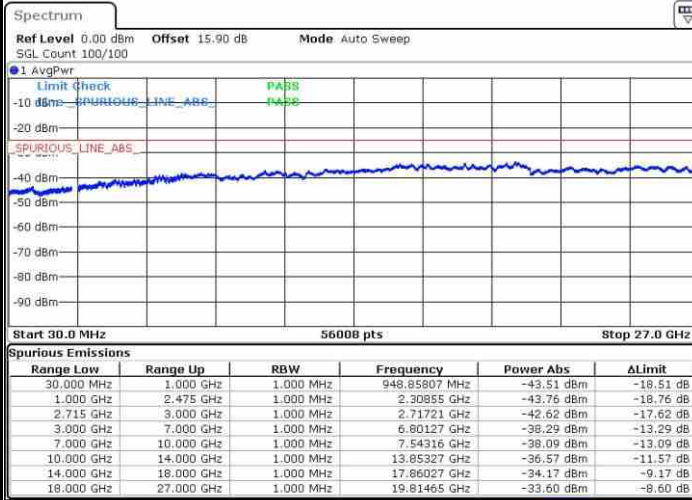


Date: 27.FEB 2019 10:43:11



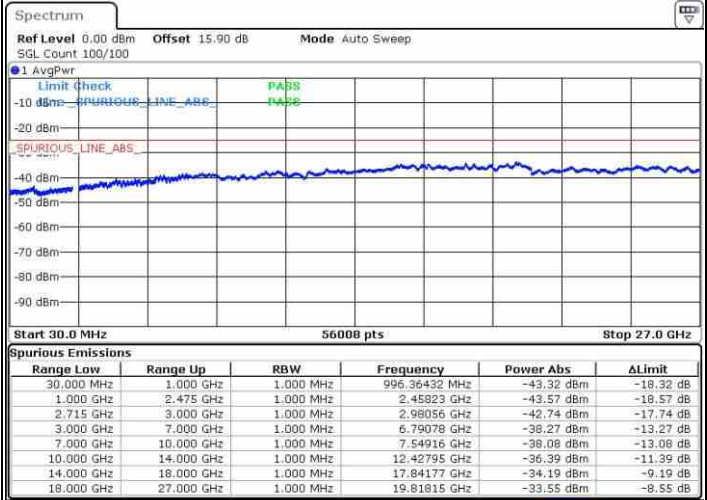
LTE Band 41 / 15MHz

Highest Channel / QPSK



Date: 27.FEB 2019 10:44:02

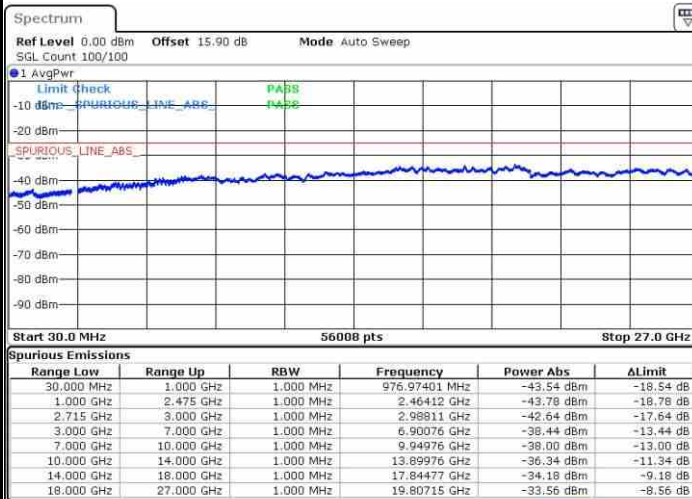
Highest Channel / 16QAM



Date: 27.FEB 2019 10:44:53

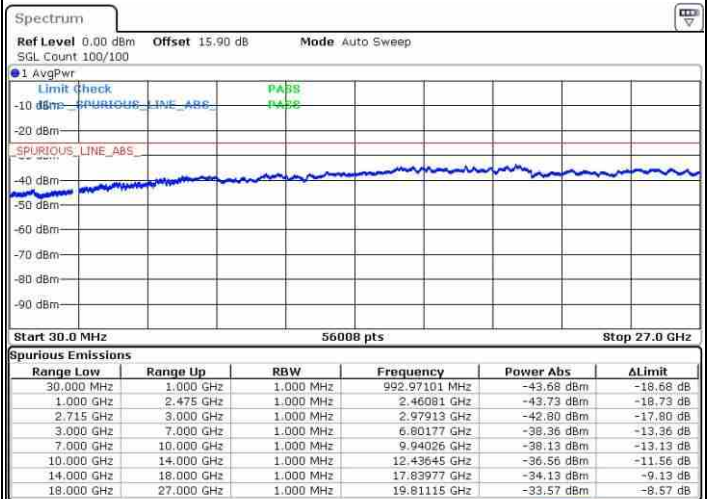
LTE Band 41 / 20MHz

Lowest Channel / QPSK



Date: 27.FEB 2019 10:45:43

Lowest Channel / 16QAM

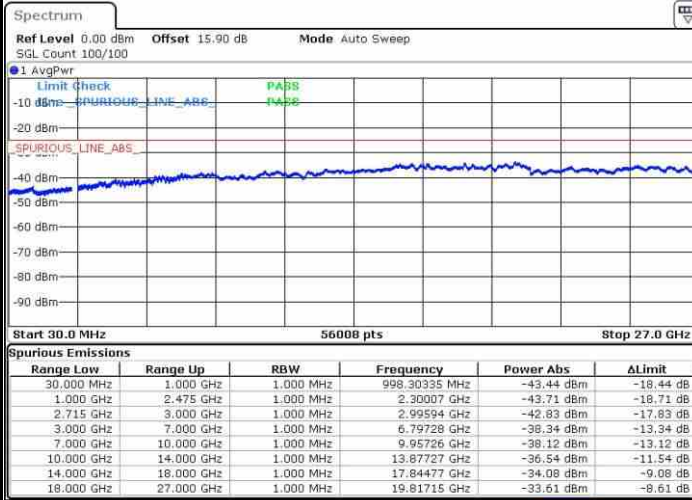


Date: 27.FEB 2019 10:46:34



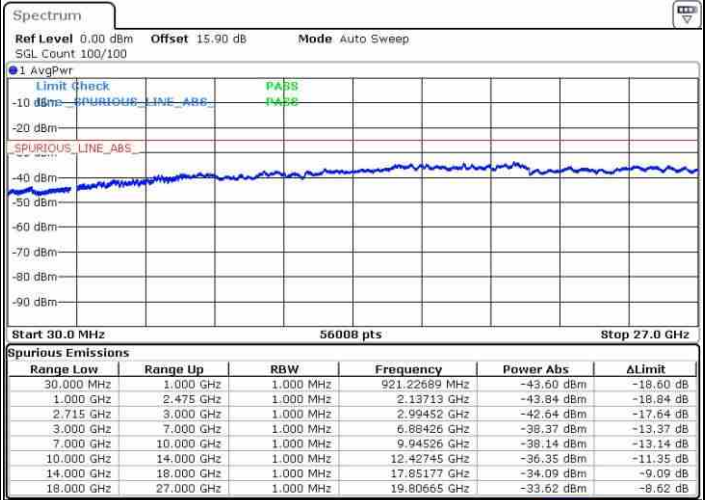
LTE Band 41 / 20MHz

Middle Channel / QPSK



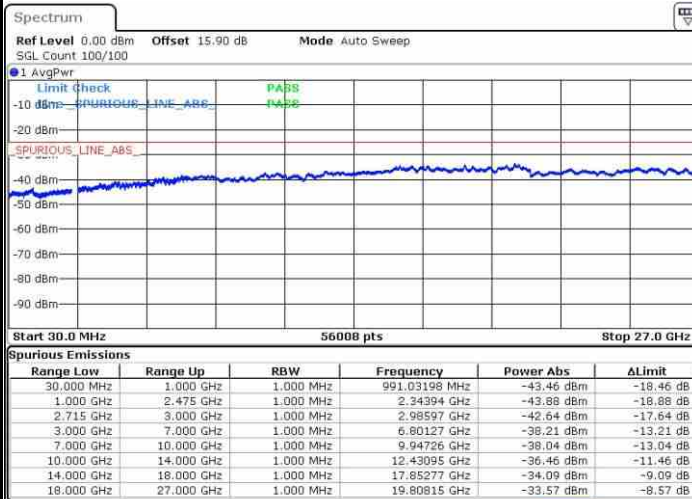
Date: 27.FEB 2019 10:47:24

Middle Channel / 16QAM



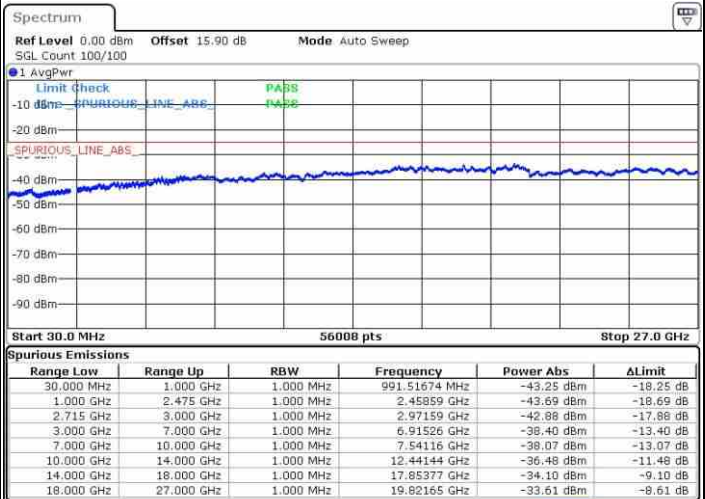
Date: 27.FEB 2019 10:48:15

Highest Channel / QPSK



Date: 27.FEB 2019 10:49:06

Highest Channel / 16QAM

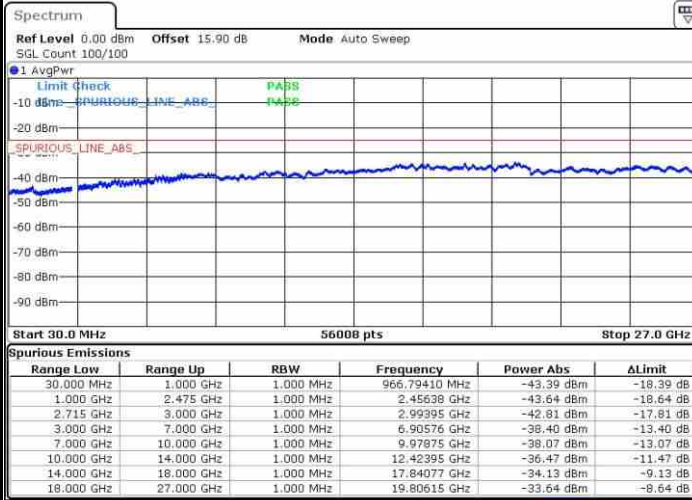


Date: 27.FEB 2019 10:49:57



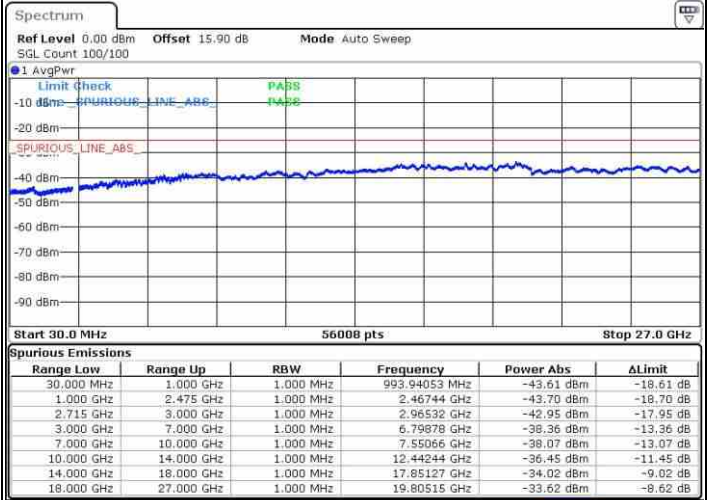
LTE Band 41 / 5MHz

Lowest Channel / 64QAM



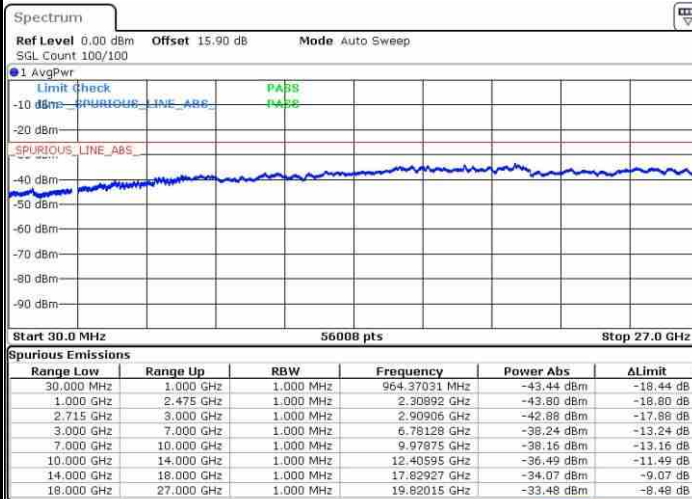
Date: 27.FEB 2019 10:20:24

Middle Channel / 64QAM



Date: 27.FEB 2019 10:21:15

Highest Channel / 64QAM

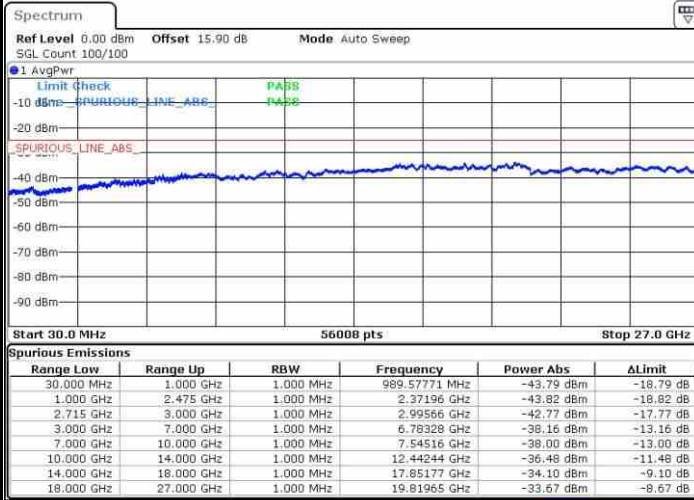


Date: 27.FEB 2019 10:22:05



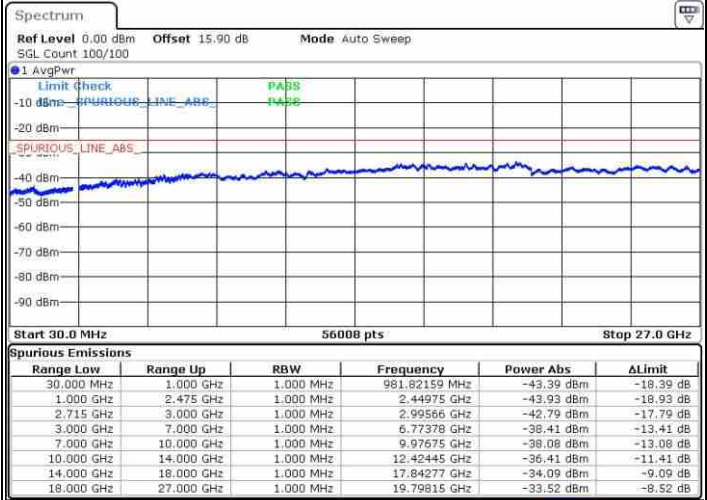
LTE Band 41 / 10MHz

Lowest Channel / 64QAM



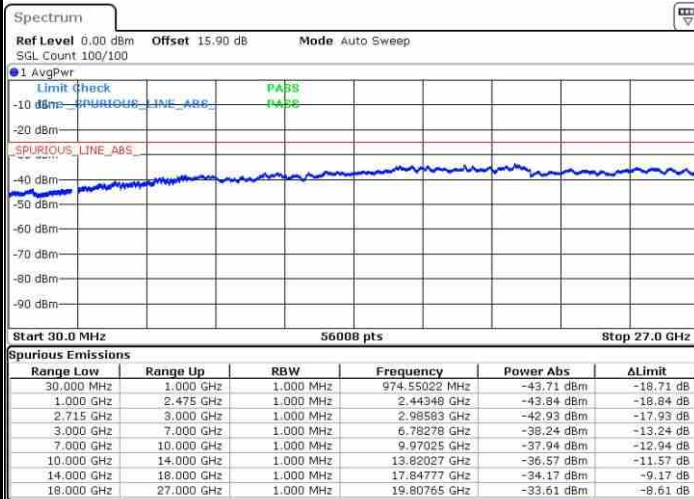
Date: 27.FEB 2019 10:22:56

Middle Channel / 64QAM



Date: 27.FEB 2019 10:23:47

Highest Channel / 64QAM

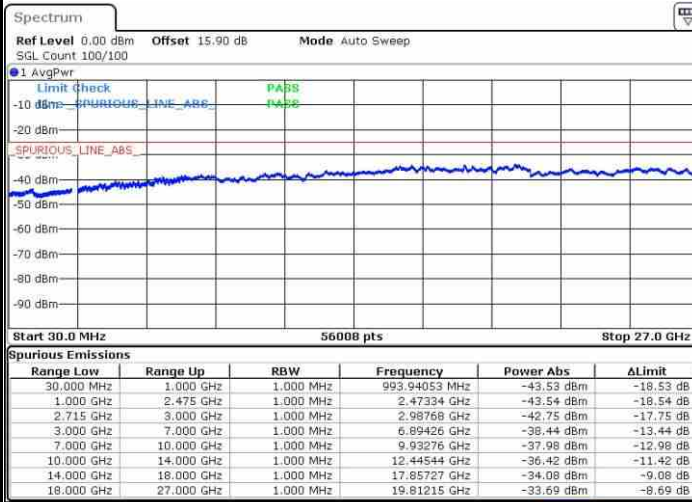


Date: 27.FEB 2019 10:24:38



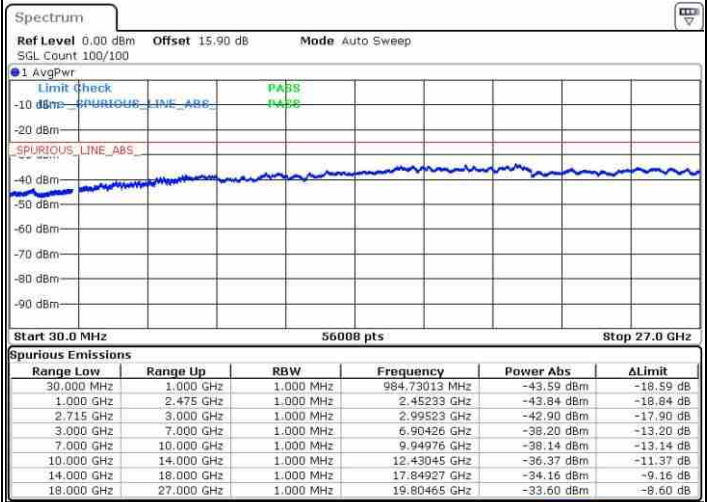
LTE Band 41 / 15MHz

Lowest Channel / 64QAM



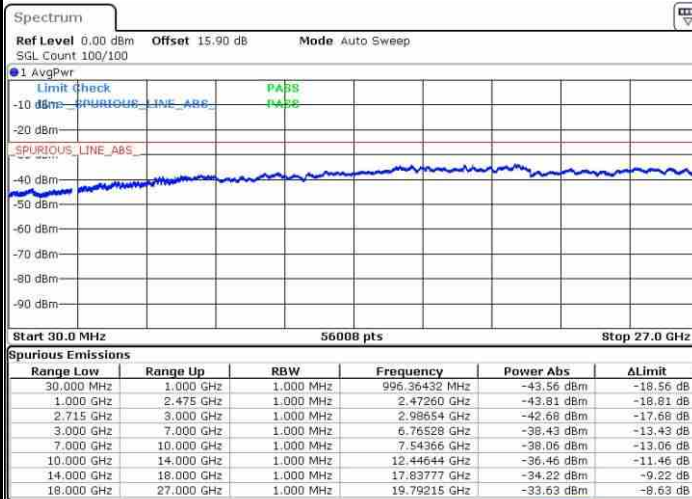
Date: 27.FEB 2019 10:25:28

Middle Channel / 64QAM



Date: 27.FEB 2019 10:26:19

Highest Channel / 64QAM

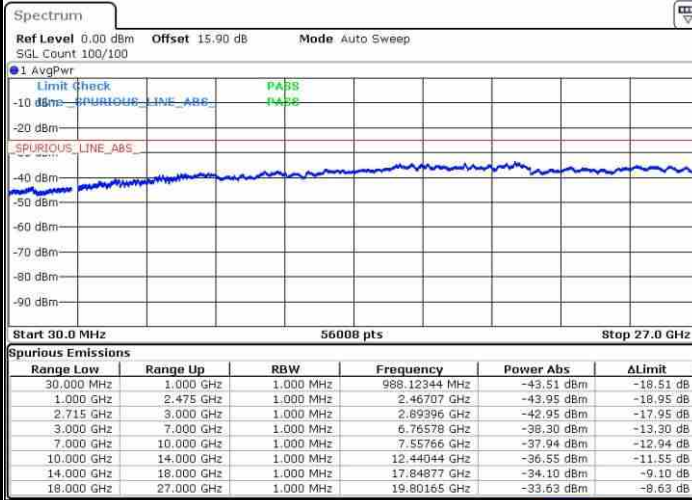


Date: 27.FEB 2019 10:27:09



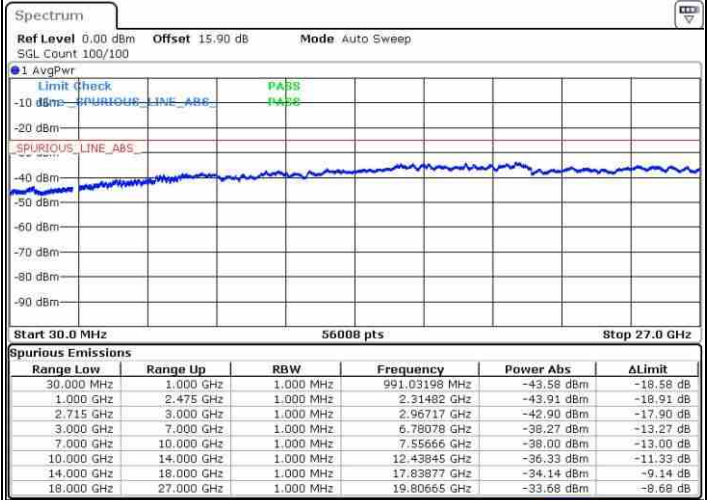
LTE Band 41 / 20MHz

Lowest Channel / 64QAM



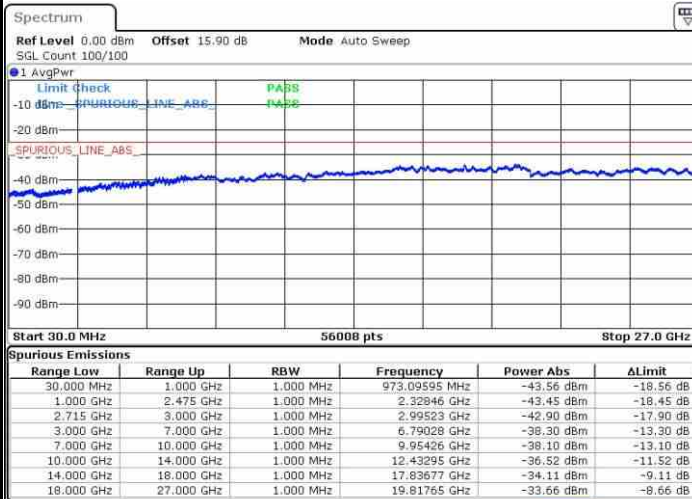
Date: 27.FEB 2019 10:28:00

Middle Channel / 64QAM



Date: 27.FEB 2019 10:28:51

Highest Channel / 64QAM



Date: 27.FEB 2019 10:29:41

Frequency Stability

Test Conditions		LTE Band 41 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0001	PASS
40	Normal Voltage	0.0070	
30	Normal Voltage	0.0004	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0004	
0	Normal Voltage	0.0003	
-10	Normal Voltage	0.0063	
-20	Normal Voltage	0.0072	
-30	Normal Voltage	0.0070	
20	Maximum Voltage	0.0070	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0069	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.2 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 41

26dB Bandwidth

Mode	LTE Band 41 : 26dB BW(MHz)				
QPSK					
BW	5MHz+20MHz	10MHz+15MHz	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz
Lowest CH	24.73	25.07	29.97	24.98	30.69
Middle CH	24.68	25.12	29.91	25.12	30.57
Highest CH	24.82	25.02	29.73	25.38	30.69
BW	15MHz+20MHz	20MHz+5MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Lowest CH	34.76	24.88	29.97	34.97	39.80
Middle CH	35.03	25.02	29.97	34.76	39.72
Highest CH	34.83	24.82	29.91	34.97	39.80

Mode	LTE Band 41 : 26dB BW(MHz)				
16QAM					
BW	5MHz+20MHz	10MHz+15MHz	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz
Lowest CH	24.73	25.02	29.85	25.02	30.63
Middle CH	24.88	25.12	29.97	24.98	30.51
Highest CH	24.57	25.12	29.91	25.12	30.45
BW	15MHz+20MHz	20MHz+5MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Lowest CH	35.03	24.77	30.09	34.83	39.80
Middle CH	34.69	24.93	29.91	34.90	20.22
Highest CH	35.03	24.82	30.15	34.97	39.80

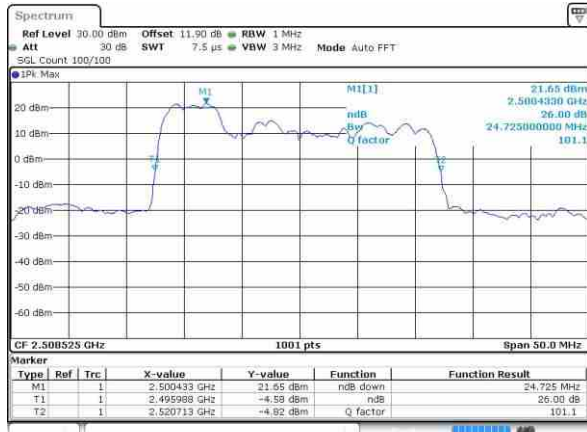
Mode	LTE Band 41 : 26dB BW(MHz)				
64QAM					
BW	5MHz+20MHz	10MHz+15MHz	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz
Lowest CH	24.68	24.98	29.79	25.18	30.39
Middle CH	24.77	25.18	29.85	24.98	30.63
Highest CH	24.77	25.07	29.91	25.07	30.57
BW	15MHz+20MHz	20MHz+5MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Lowest CH	34.76	24.88	29.91	34.90	39.64
Middle CH	34.69	24.82	29.85	34.83	39.56
Highest CH	34.97	24.77	30.09	34.90	39.96



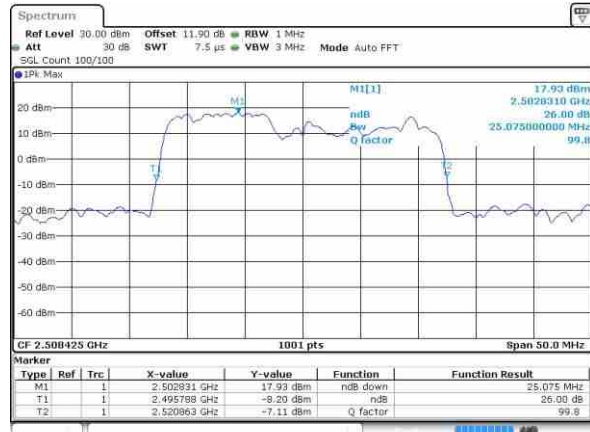
LTE Band 41

QPSK

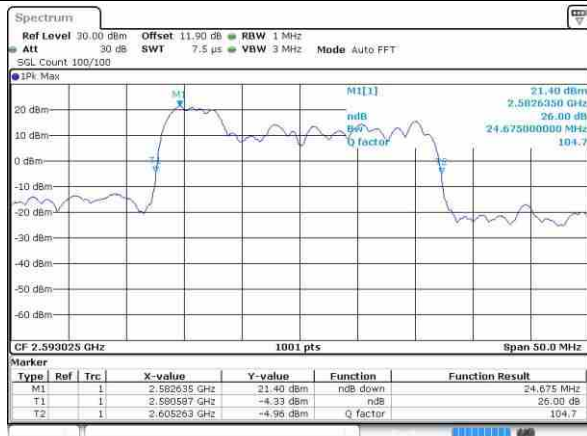
Lowest Channel / 5MHz+20MHz



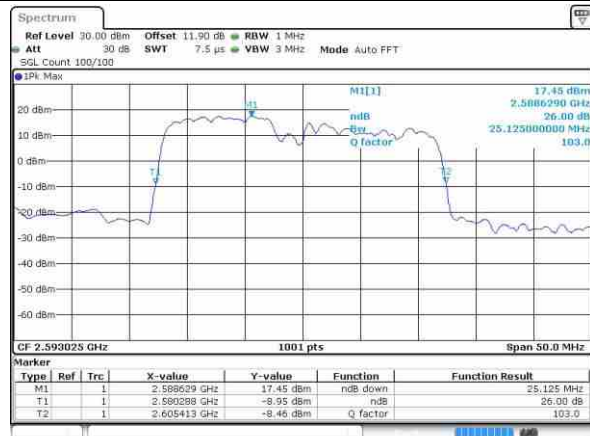
Lowest Channel / 10MHz+15MHz



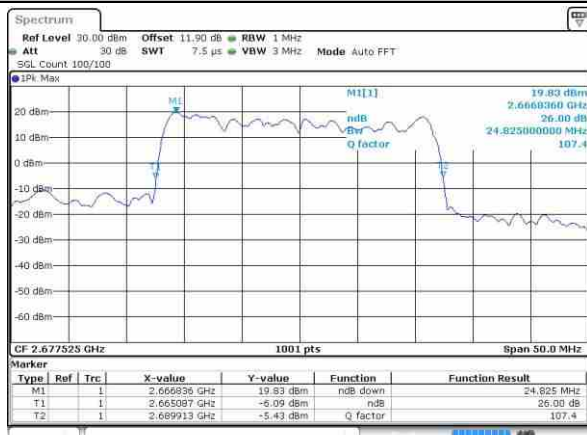
Middle Channel / 5MHz+20MHz



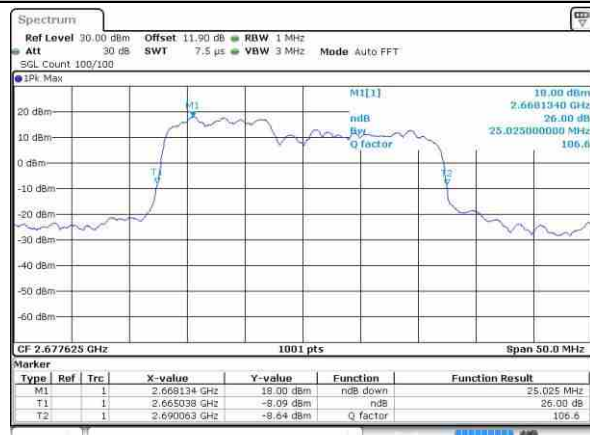
Middle Channel / 10MHz+15MHz



Highest Channel / 5MHz+20MHz



Highest Channel / 10MHz+15MHz

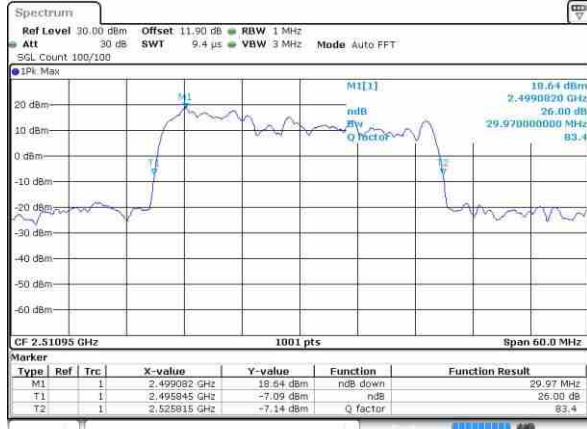




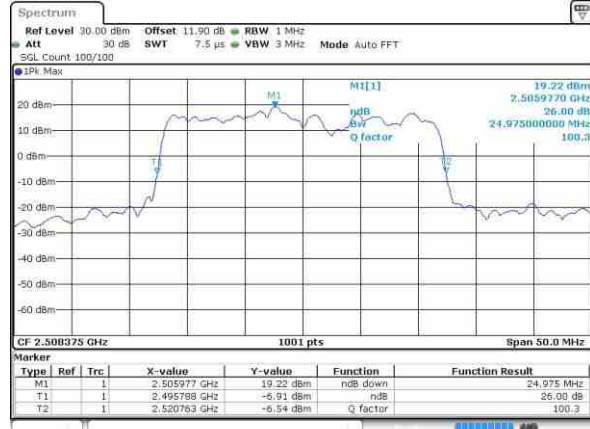
LTE Band 41

QPSK

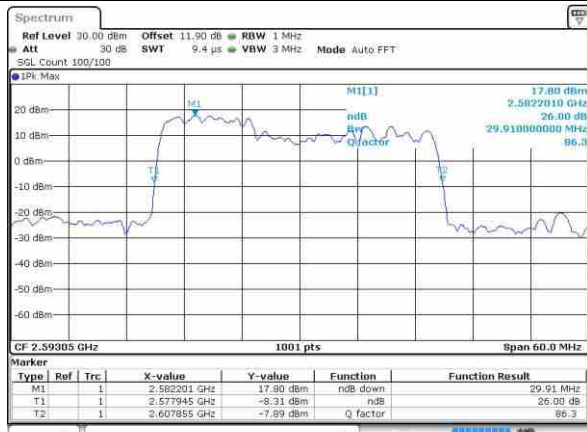
Lowest Channel / 10MHz+20MHz



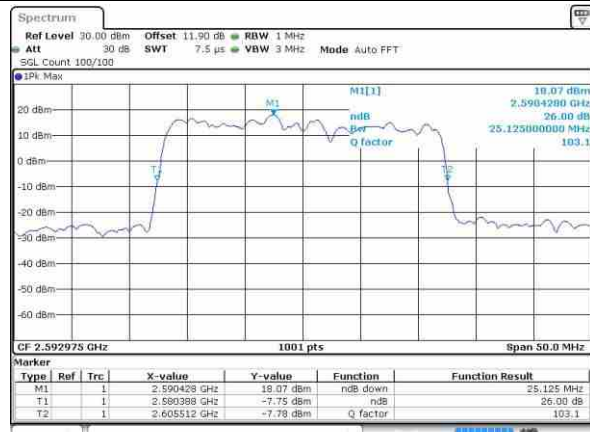
Lowest Channel / 15MHz+10MHz



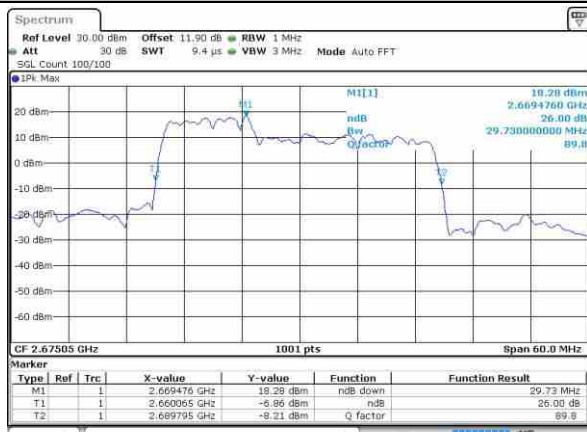
Middle Channel / 10MHz+20MHz



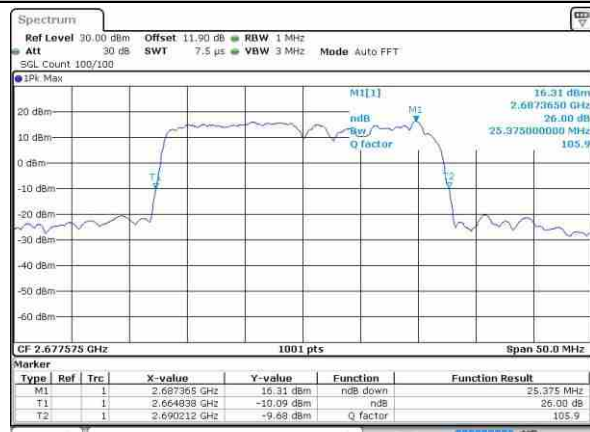
Middle Channel / 15MHz+10MHz



Highest Channel / 10MHz+20MHz



Highest Channel / 15MHz+10MHz

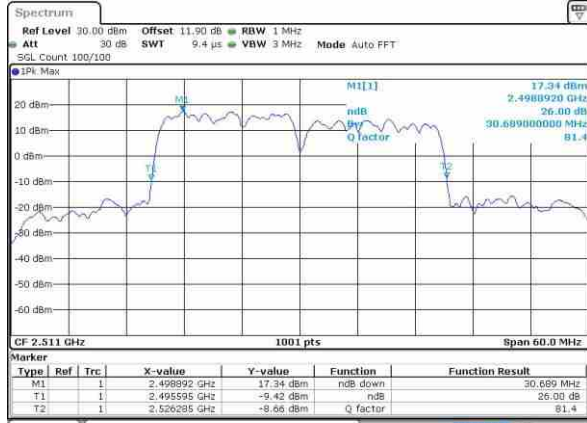




LTE Band 41

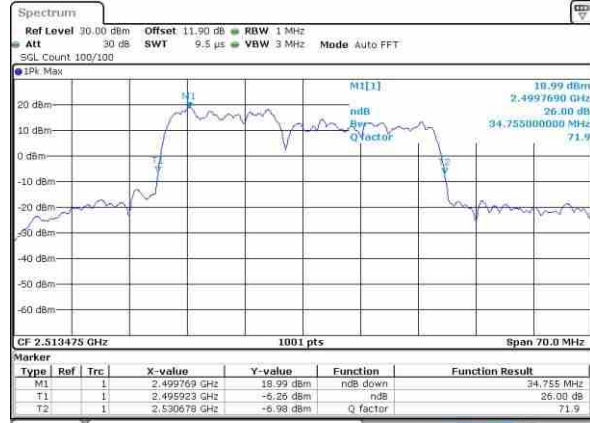
QPSK

Lowest Channel / 15MHz+15MHz



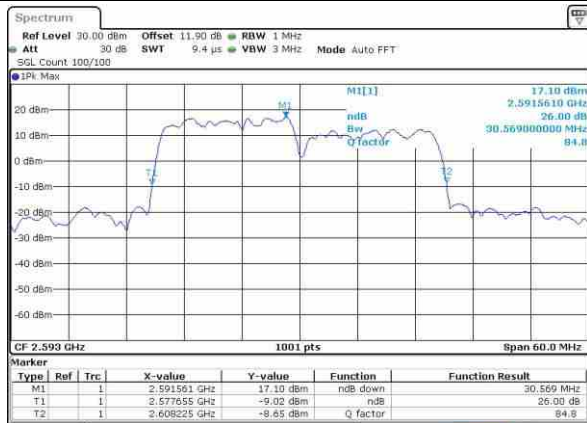
Date: 10 MAY 2019 15:54:02

Lowest Channel / 15MHz+20MHz



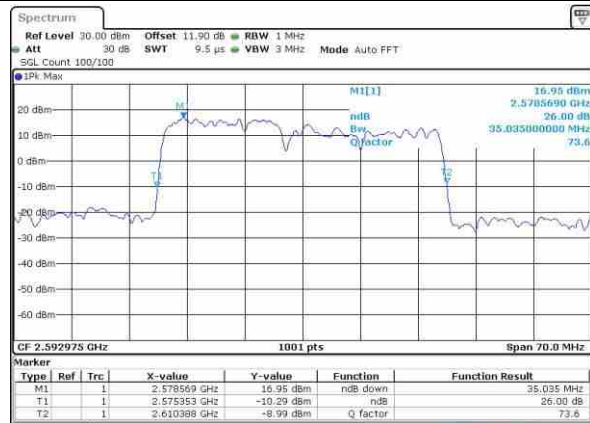
Date: 10 MAY 2019 16:15:14

Middle Channel / 15MHz+15MHz



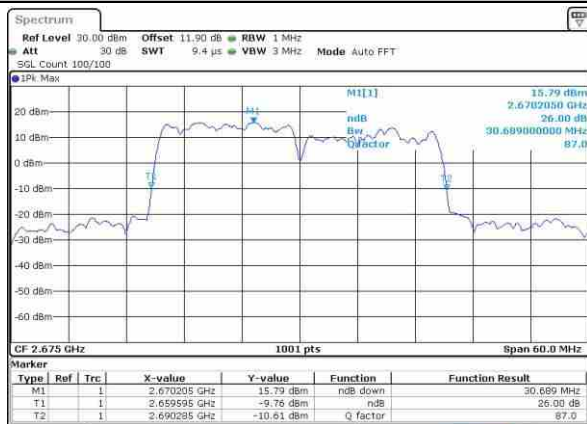
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Middle Channel / 15MHz+20MHz



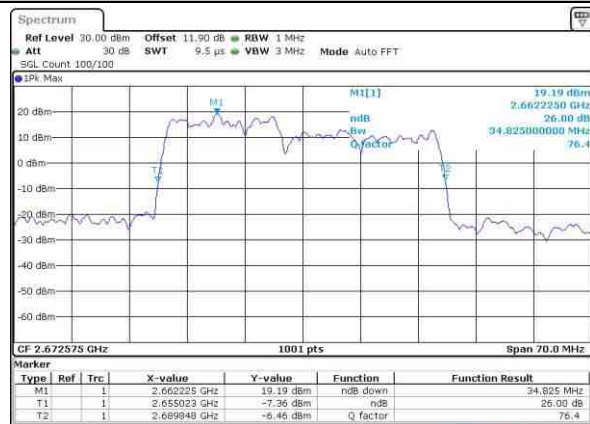
Date: 10 MAY 2019 16:24:17

Highest Channel / 15MHz+15MHz



Date: 10 MAY 2019 16:10:27

Highest Channel / 15MHz+20MHz



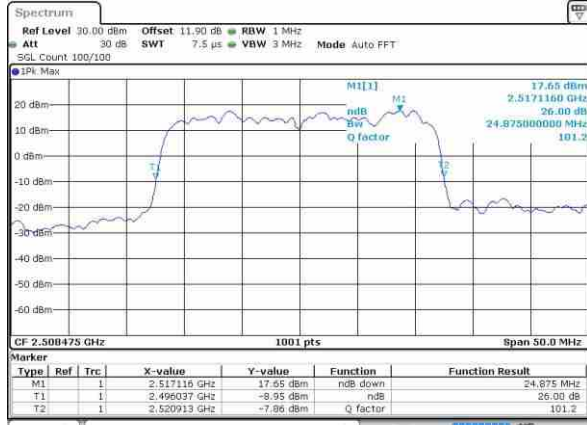
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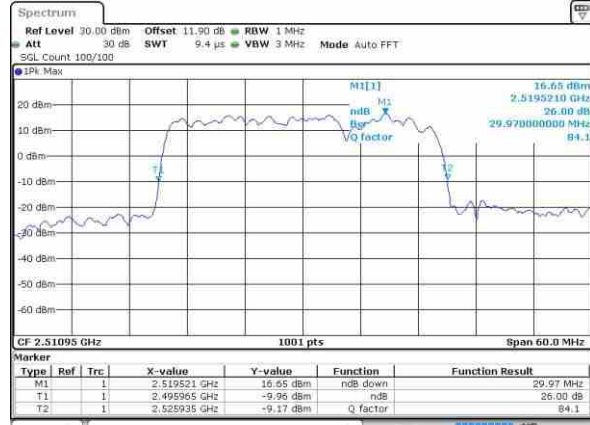
LTE Band 41

QPSK

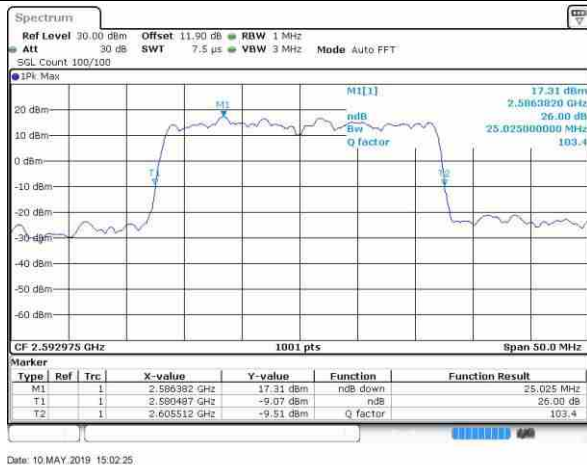
Lowest Channel / 20MHz+5MHz



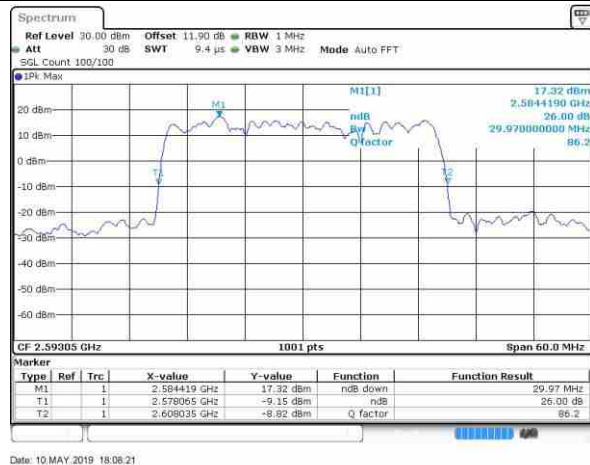
Lowest Channel / 20MHz+10MHz



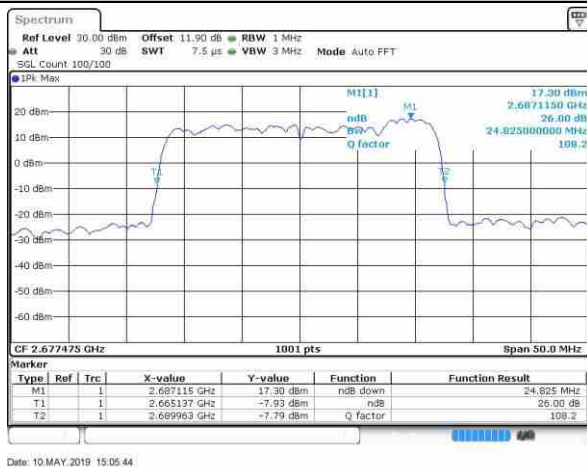
Middle Channel / 20MHz+5MHz



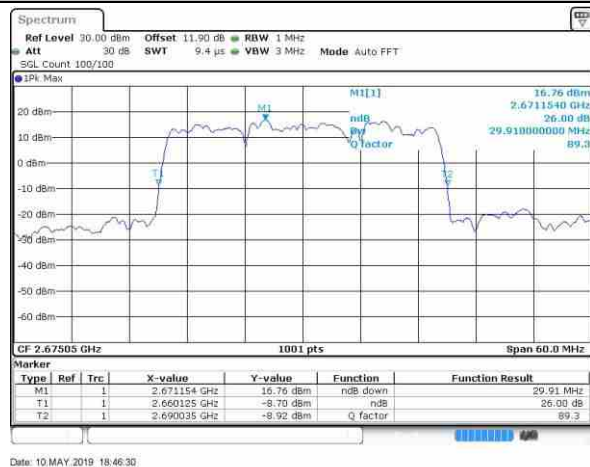
Middle Channel / 20MHz+10MHz



Highest Channel / 20MHz+5MHz



Highest Channel / 20MHz+10MHz

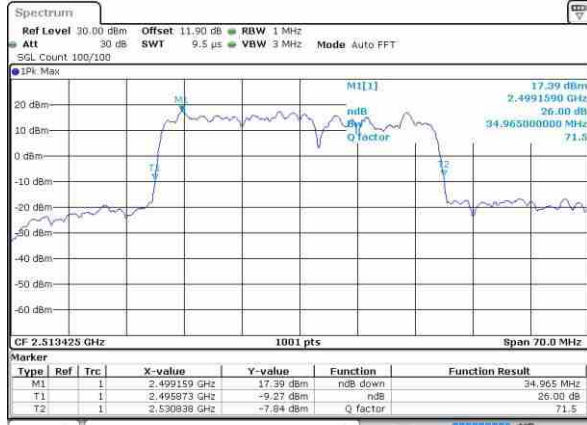




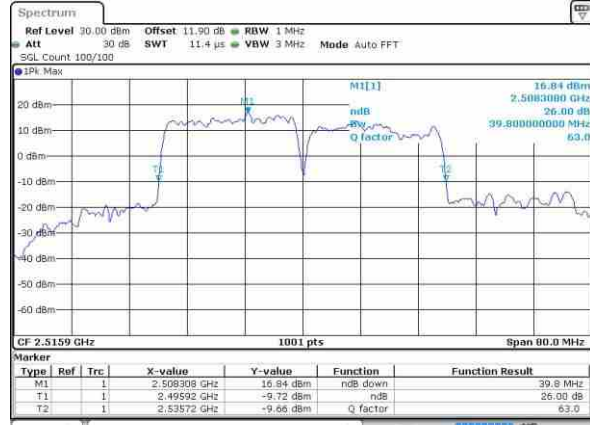
LTE Band 41

QPSK

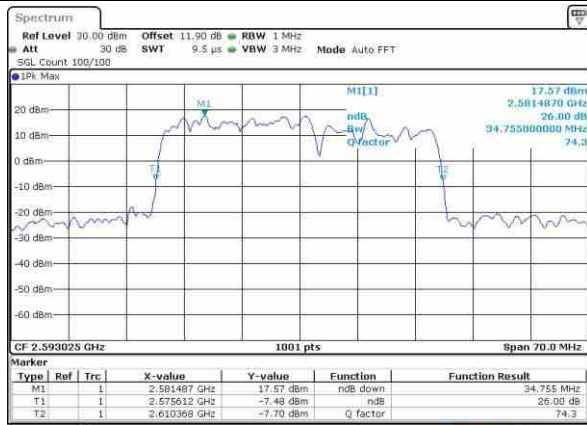
Lowest Channel / 20MHz+15MHz



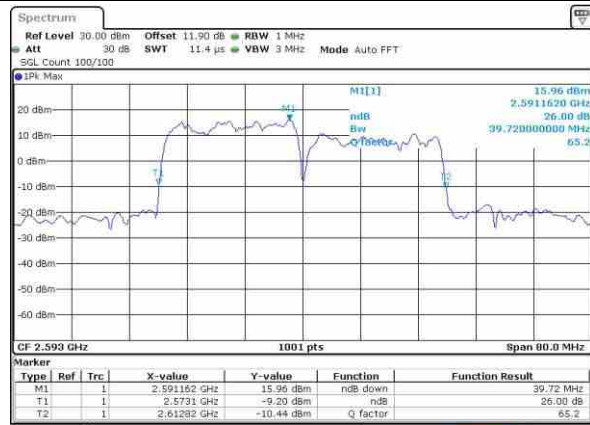
Lowest Channel / 20MHz+20MHz



Middle Channel / 20MHz+15MHz



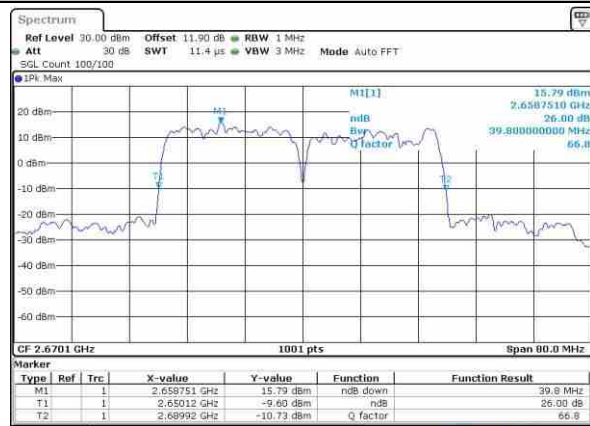
Middle Channel / 20MHz+20MHz



Highest Channel / 20MHz+15MHz



Highest Channel / 20MHz+20MHz

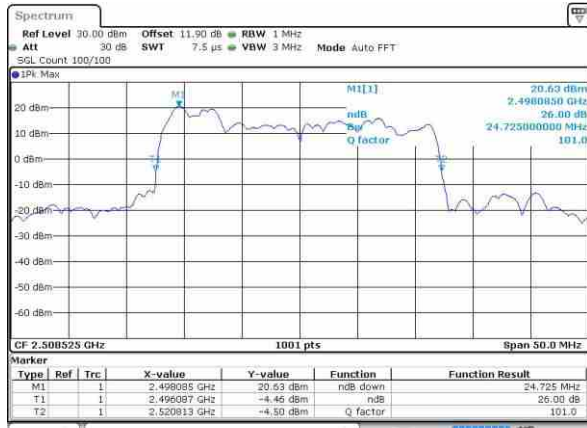




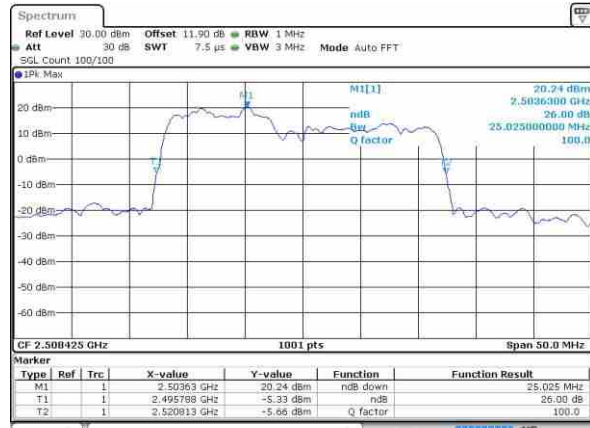
LTE Band 41

16QAM

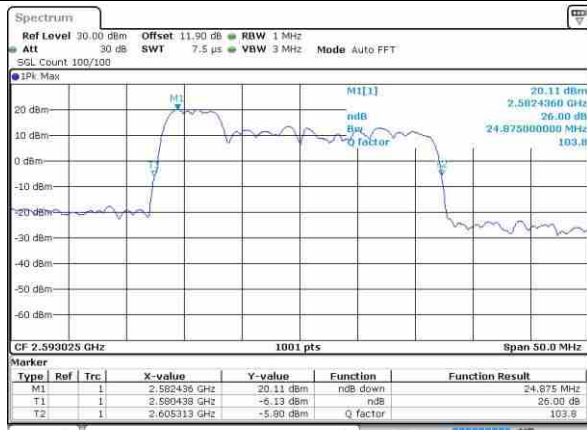
Lowest Channel / 5MHz+20MHz



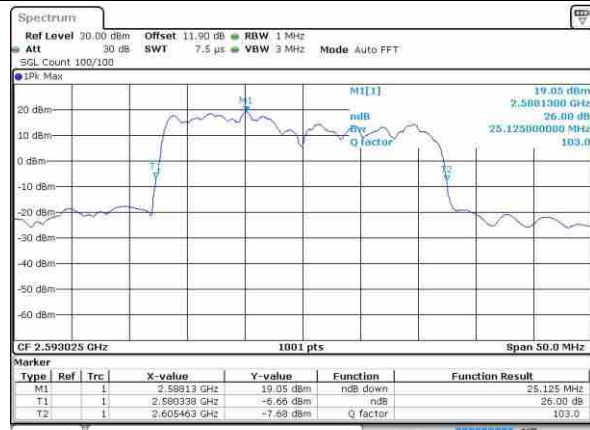
Lowest Channel / 10MHz+15MHz



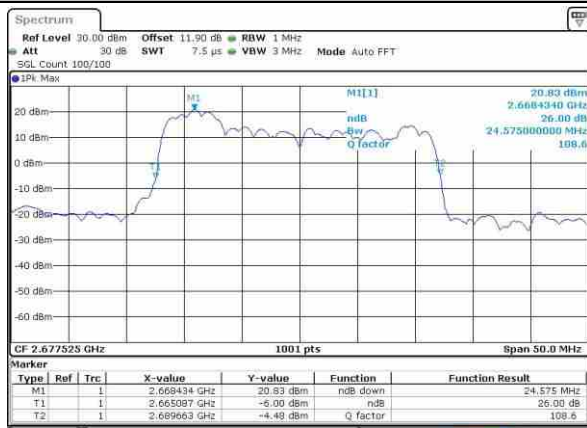
Middle Channel / 5MHz+20MHz



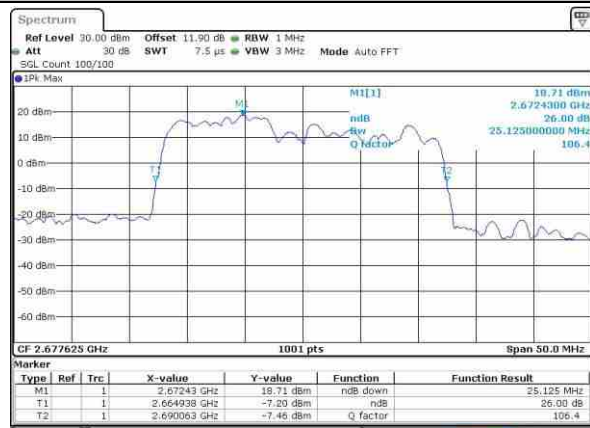
Middle Channel / 10MHz+15MHz



Highest Channel / 5MHz+20MHz



Highest Channel / 10MHz+15MHz

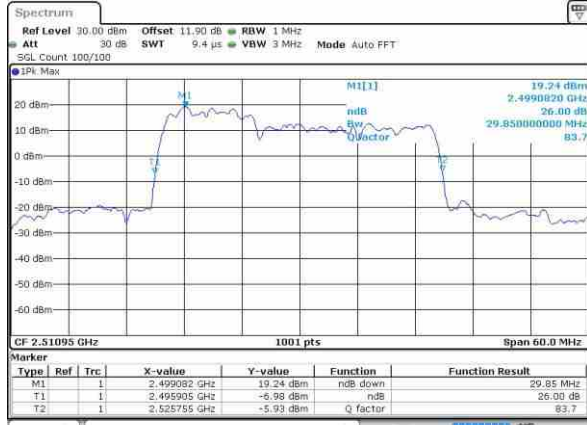




LTE Band 41

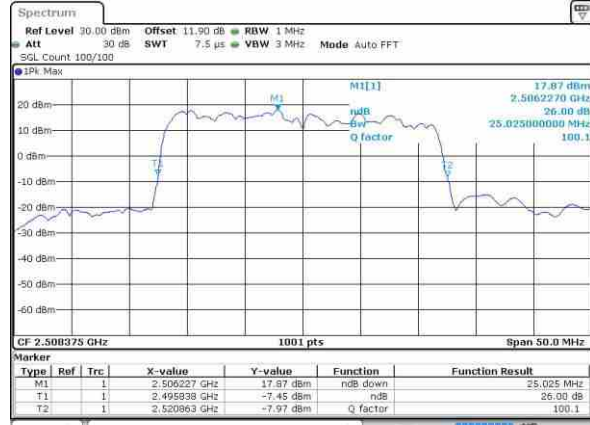
16QAM

Lowest Channel / 10MHz+20MHz



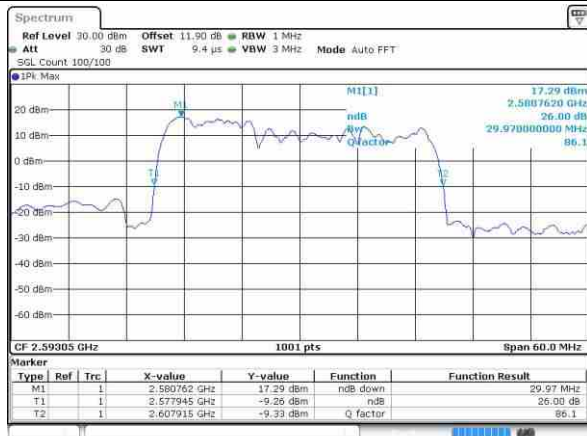
Date: 10 MAY 2019 15:37:14

Lowest Channel / 15MHz+10MHz



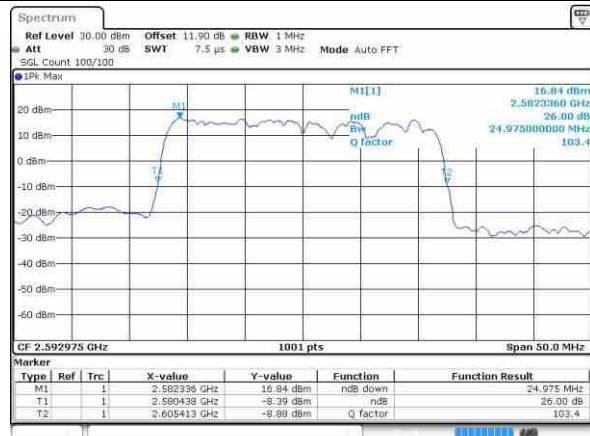
Date: 10 MAY 2019 15:25:33

Middle Channel / 10MHz+20MHz



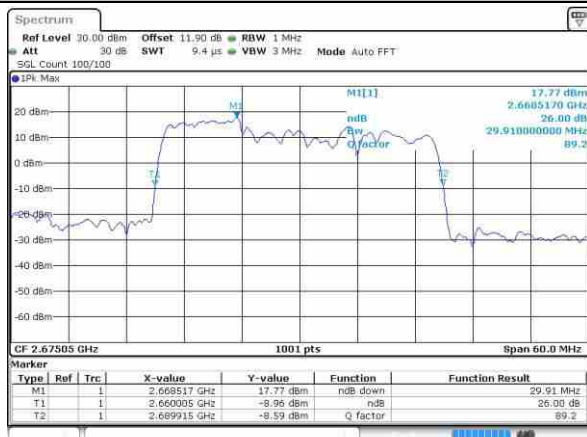
Date: 10 MAY 2019 15:44:58

Middle Channel / 15MHz+10MHz



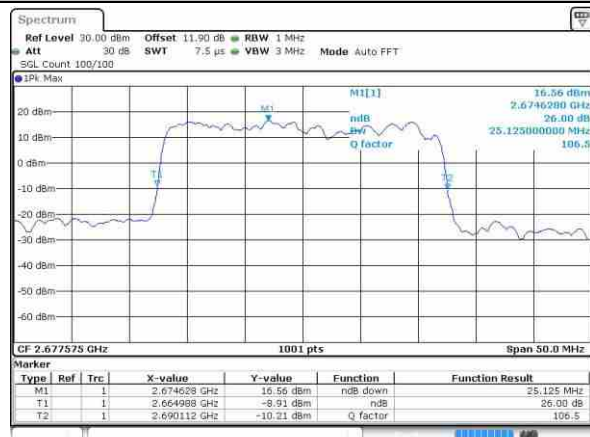
Date: 10 MAY 2019 15:28:44

Highest Channel / 10MHz+20MHz



Date: 10 MAY 2019 15:48:28

Highest Channel / 15MHz+10MHz



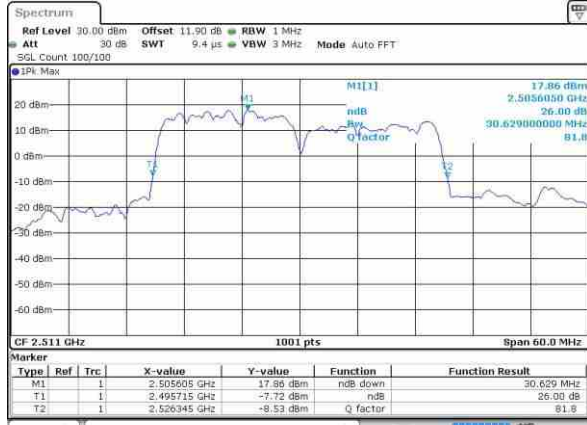
Date: 10 MAY 2019 15:31:30



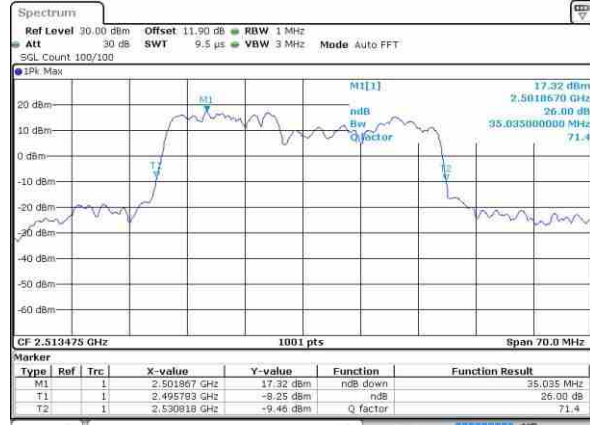
LTE Band 41

16QAM

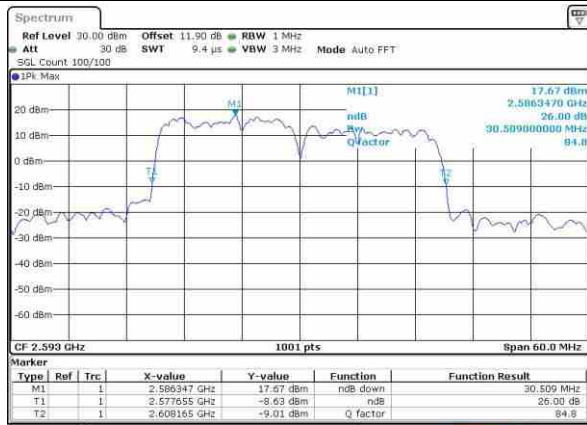
Lowest Channel / 15MHz+15MHz



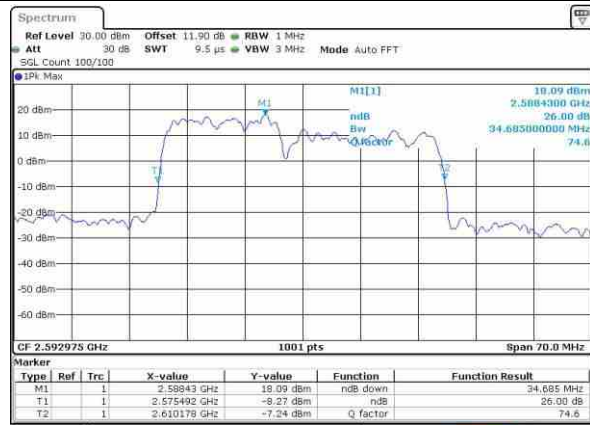
Lowest Channel / 15MHz+20MHz



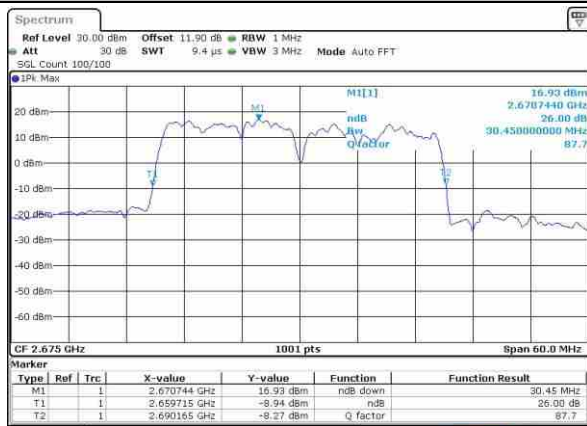
Middle Channel / 15MHz+15MHz



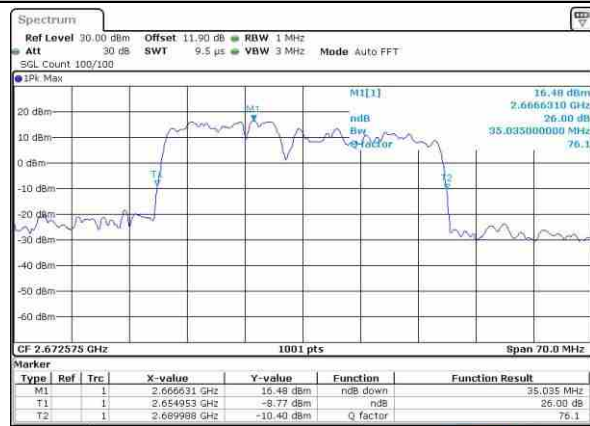
Middle Channel / 15MHz+20MHz



Highest Channel / 15MHz+15MHz



Highest Channel / 15MHz+20MHz

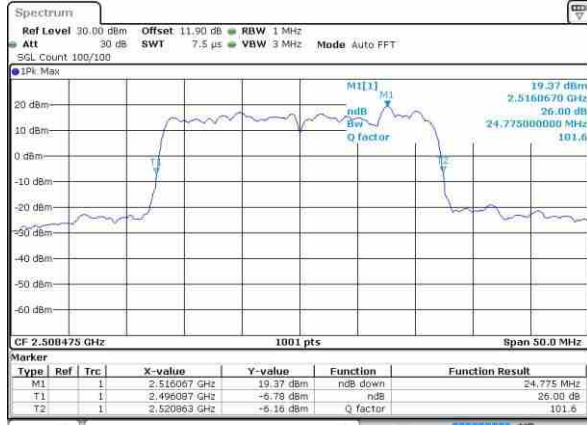




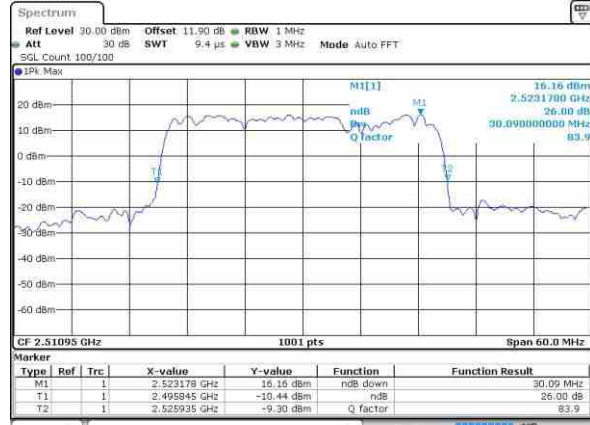
LTE Band 41

16QAM

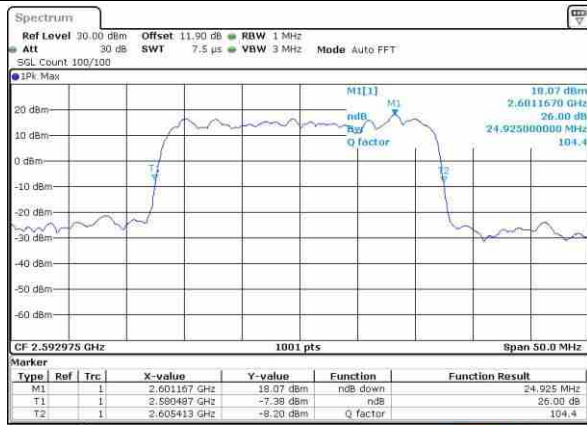
Lowest Channel / 20MHz+5MHz



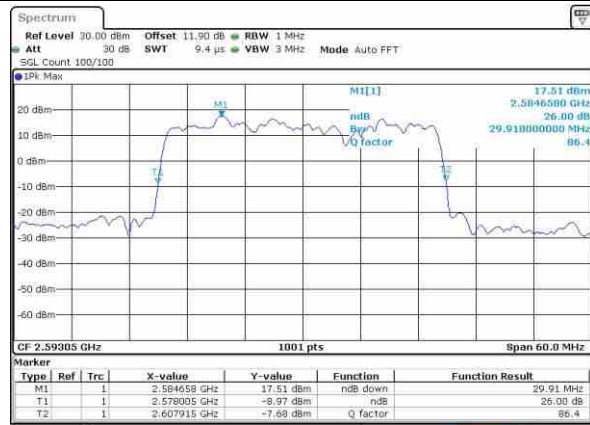
Lowest Channel / 20MHz+10MHz



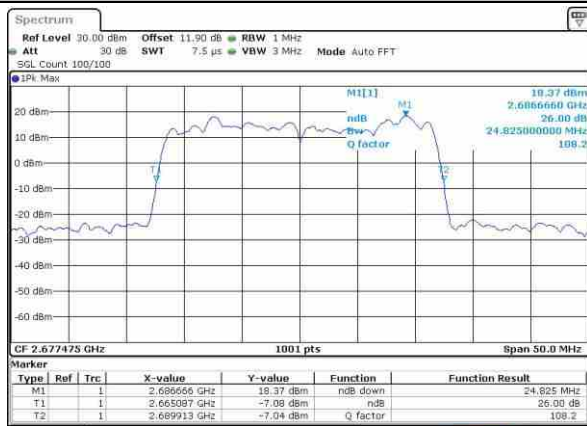
Middle Channel / 20MHz+5MHz



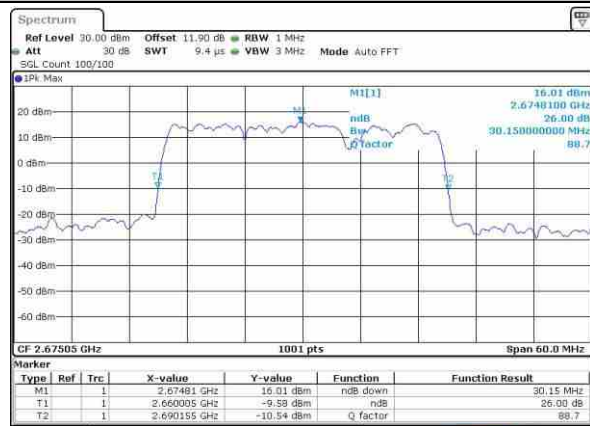
Middle Channel / 20MHz+10MHz



Highest Channel / 20MHz+5MHz



Highest Channel / 20MHz+10MHz

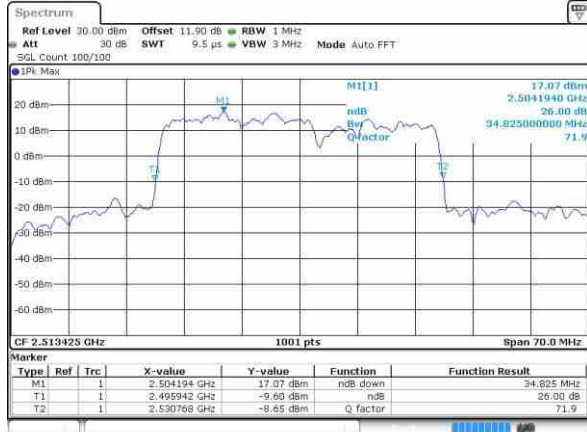




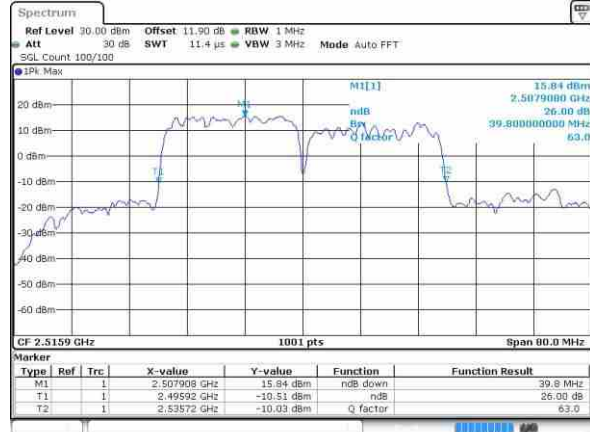
LTE Band 41

16QAM

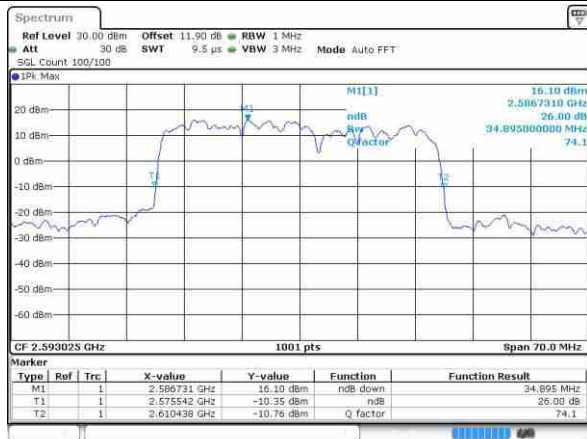
Lowest Channel / 20MHz+15MHz



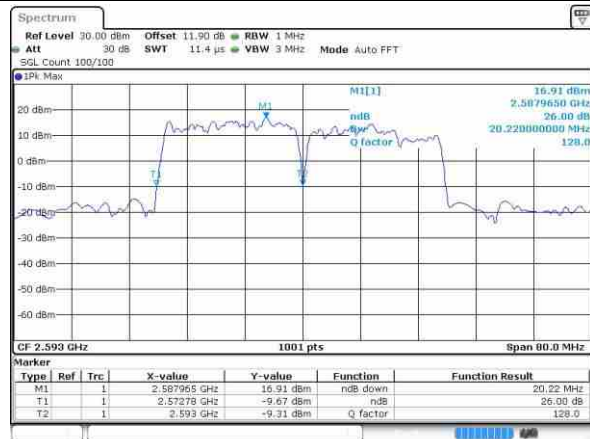
Lowest Channel / 20MHz+20MHz



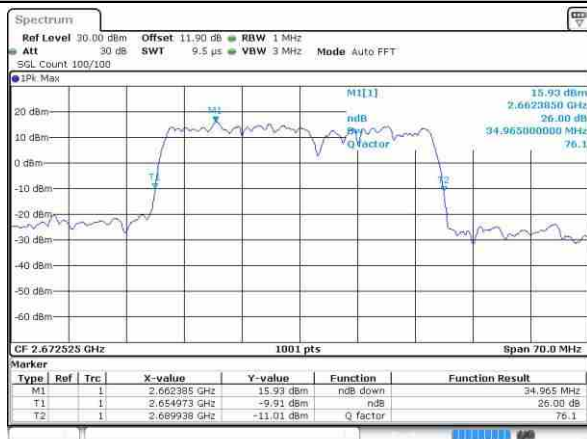
Middle Channel / 20MHz+15MHz



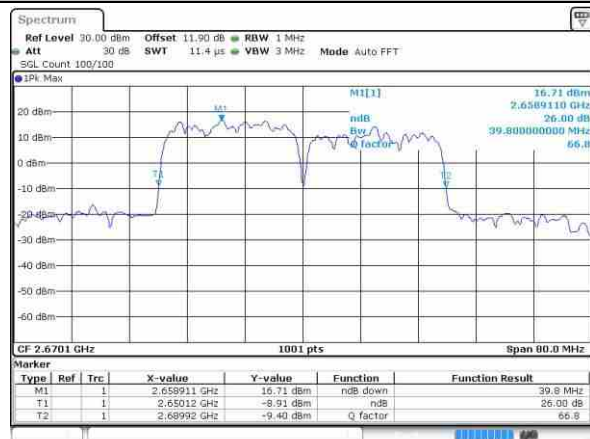
Middle Channel / 20MHz+20MHz



Highest Channel / 20MHz+15MHz



Highest Channel / 20MHz+20MHz

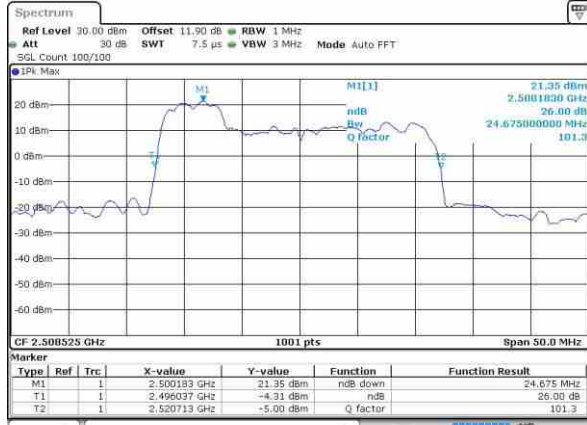




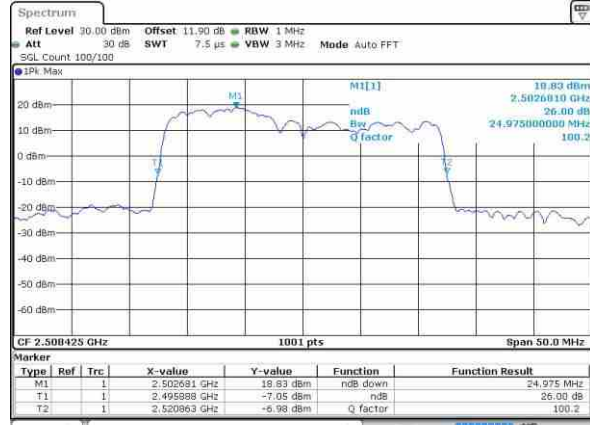
LTE Band 41

64QAM

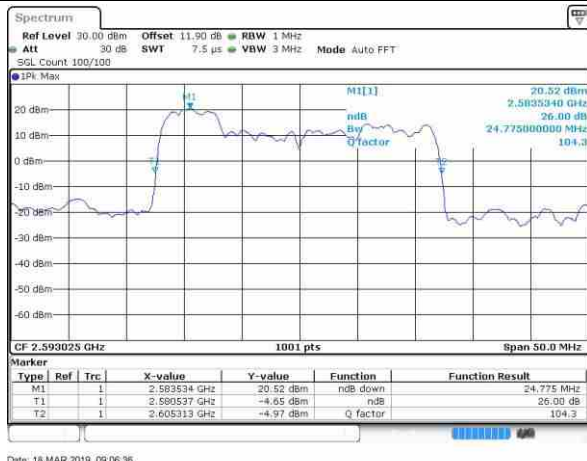
Lowest Channel / 5MHz+20MHz



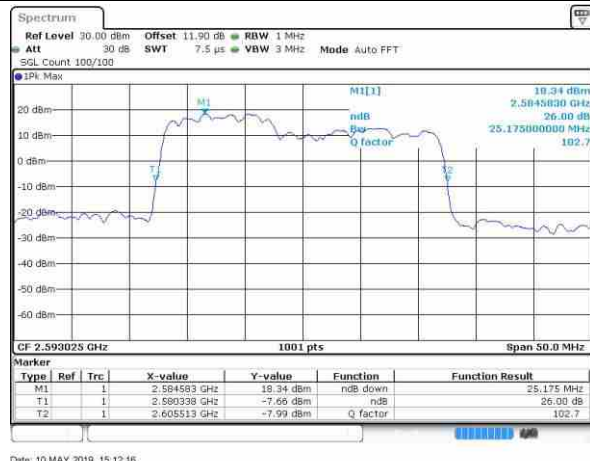
Lowest Channel / 10MHz+15MHz



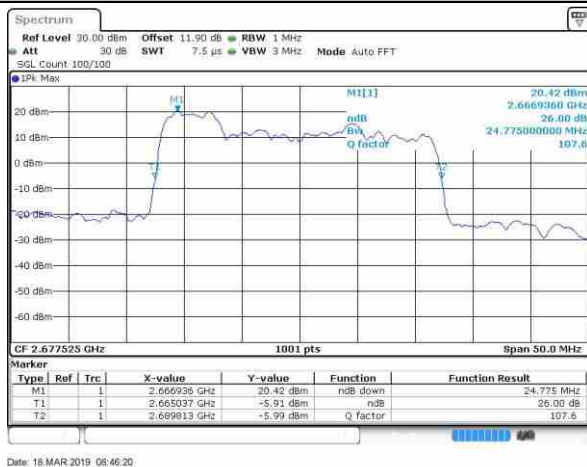
Middle Channel / 5MHz+20MHz



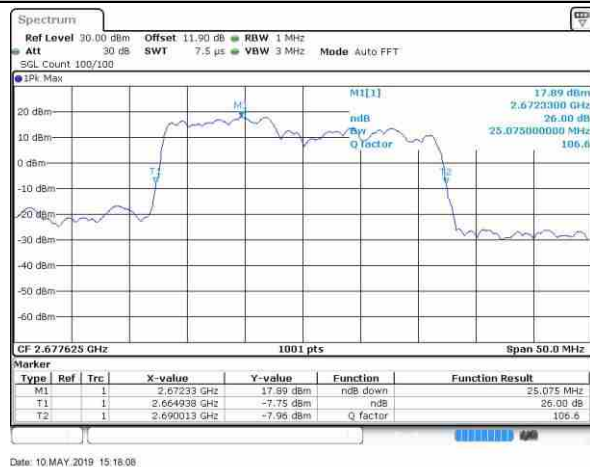
Middle Channel / 10MHz+15MHz



Highest Channel / 5MHz+20MHz



Highest Channel / 10MHz+15MHz

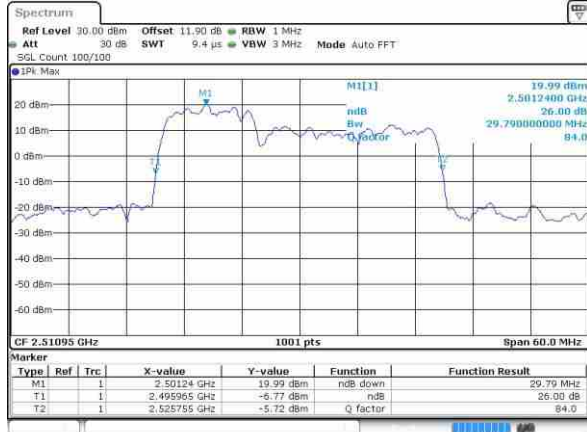




LTE Band 41

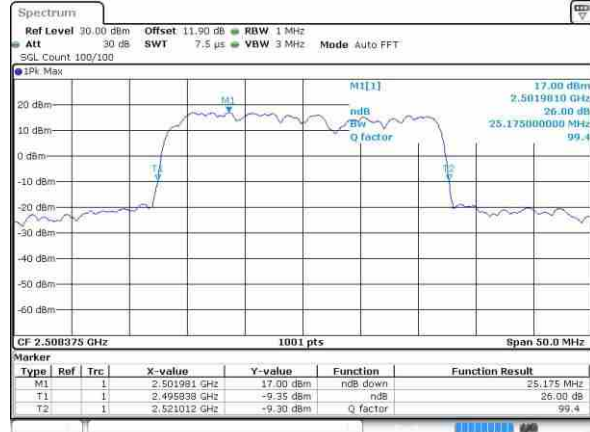
64QAM

Lowest Channel / 10MHz+20MHz



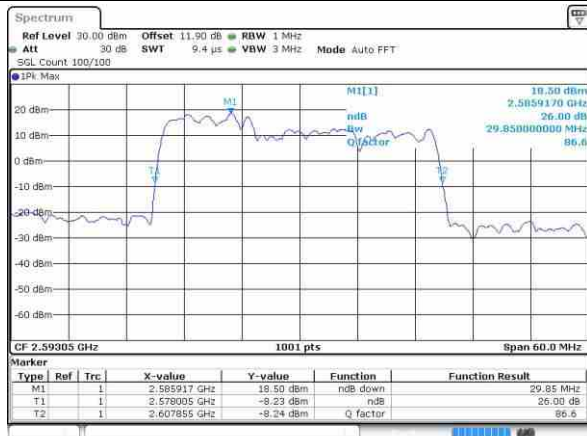
Date: 10 MAY 2019 15:36:51

Lowest Channel / 15MHz+10MHz



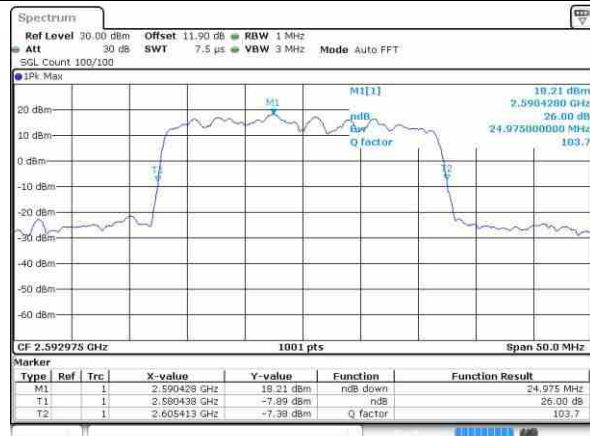
Date: 10 MAY 2019 15:25:10

Middle Channel / 10MHz+20MHz



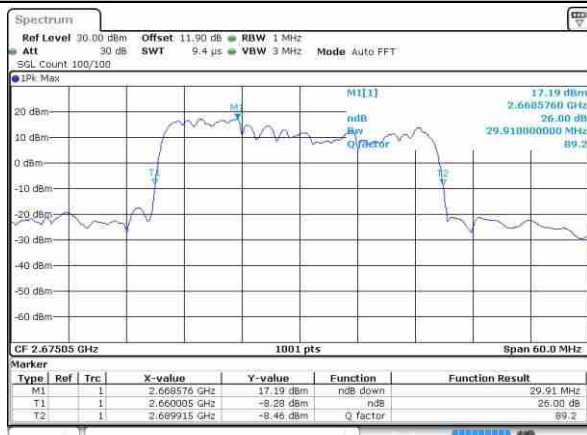
Date: 10 MAY 2019 15:44:35

Middle Channel / 15MHz+10MHz



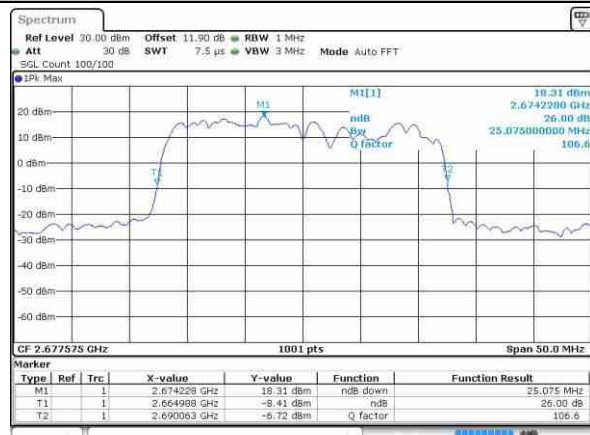
Date: 10 MAY 2019 15:28:21

Highest Channel / 10MHz+20MHz



Date: 10 MAY 2019 15:48:52

Highest Channel / 15MHz+10MHz



Date: 10 MAY 2019 15:31:52