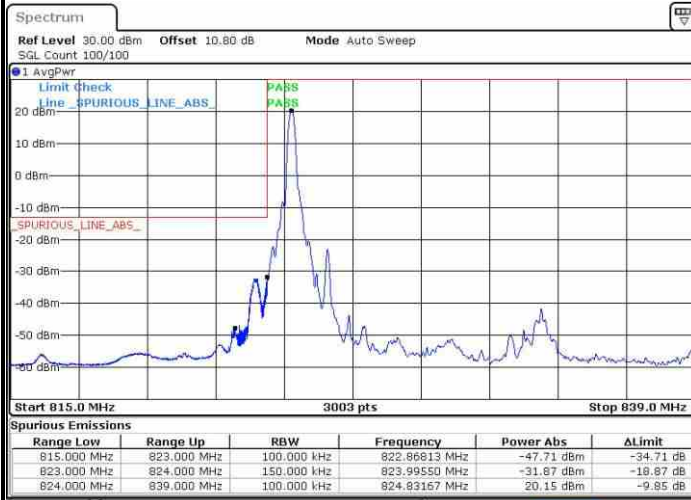




LTE Band 26 / 15MHz / QPSK

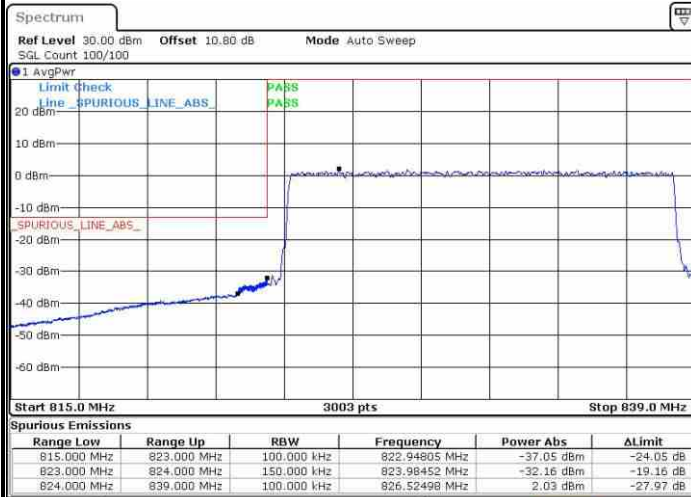
Lowest Band Edge / 1 RB



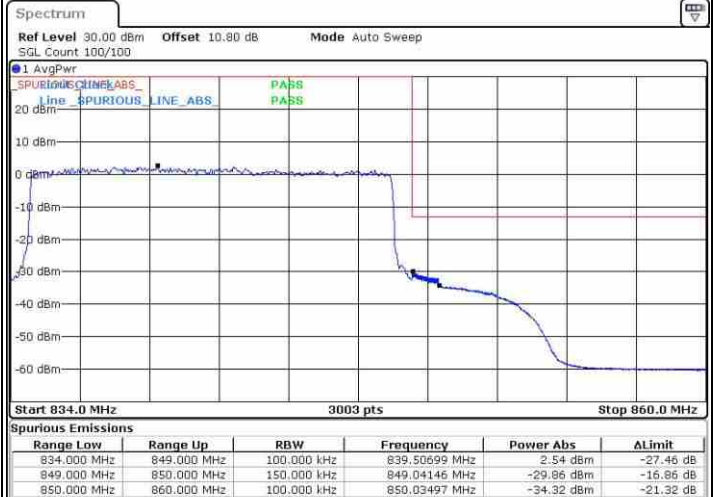
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



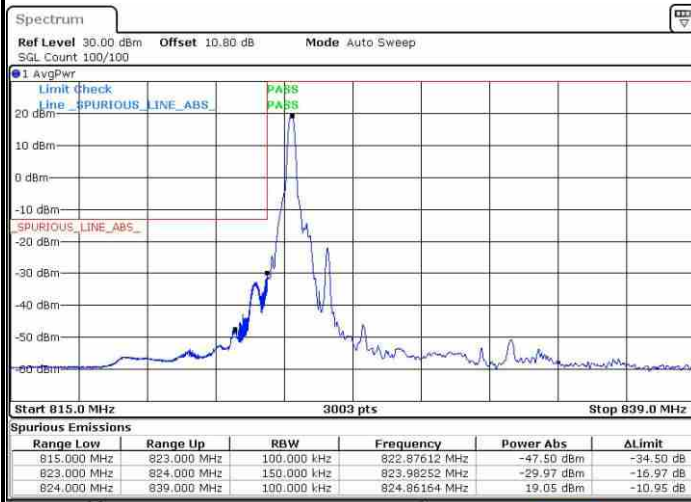
Highest Band Edge / Full RB



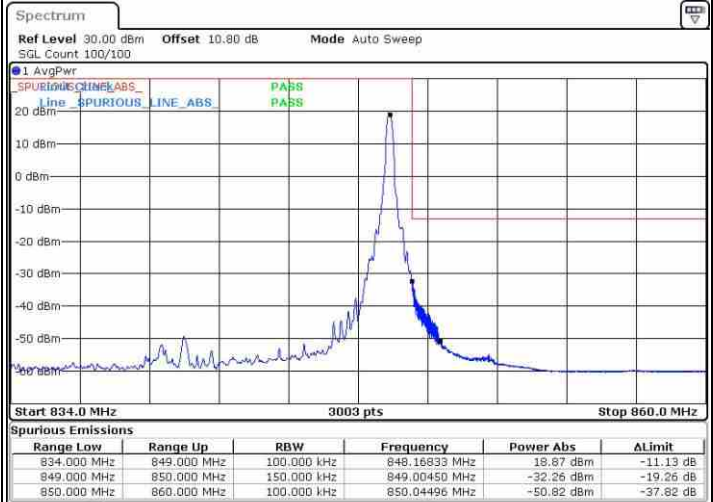


LTE Band 26 / 15MHz / 16QAM

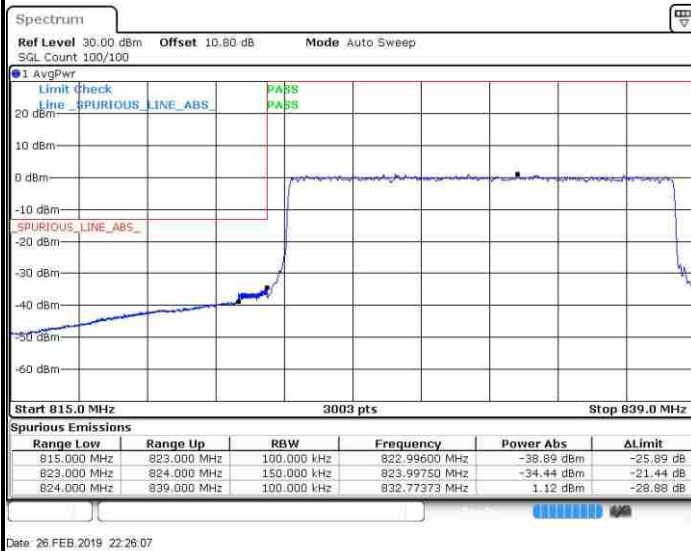
Lowest Band Edge / 1 RB



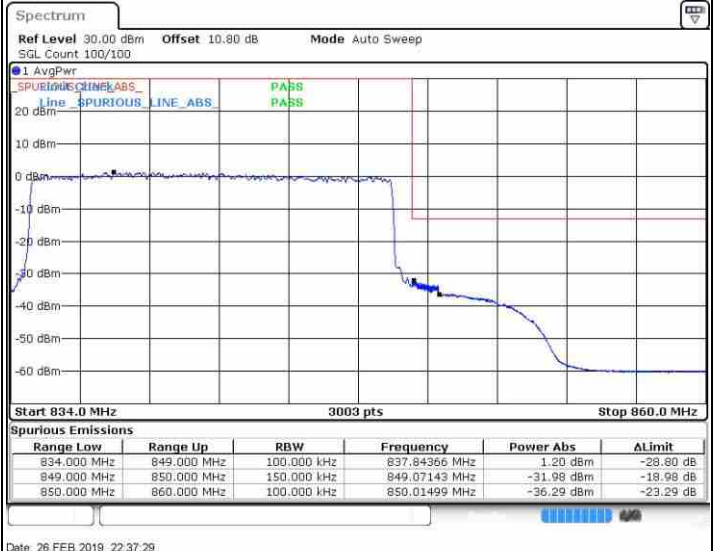
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



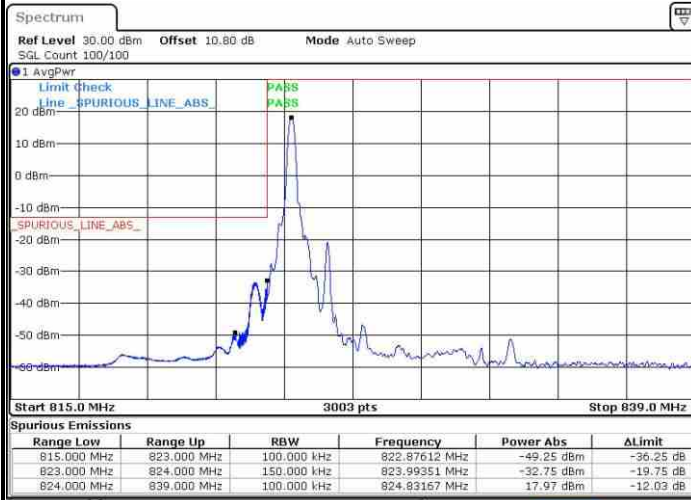
Highest Band Edge / Full RB



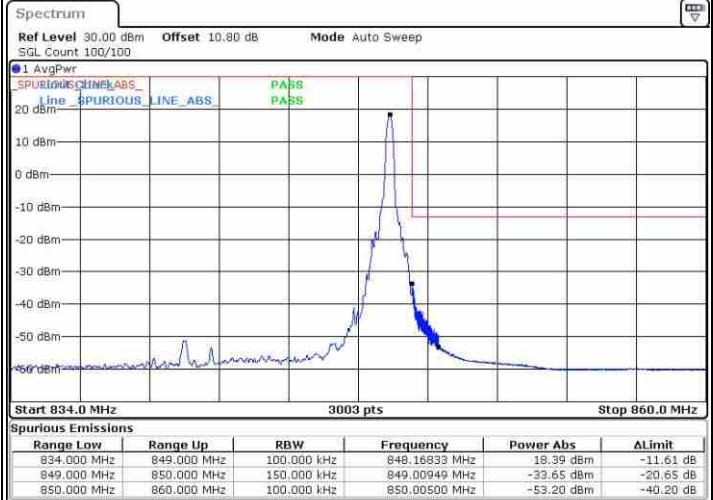


LTE Band 26 / 15MHz / 64QAM

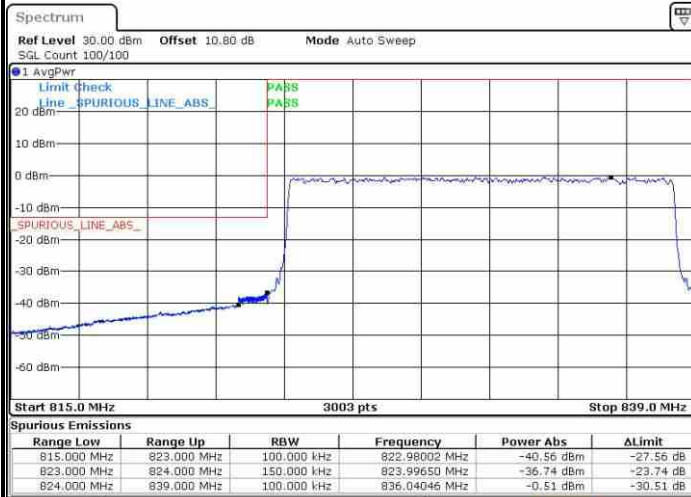
Lowest Band Edge / 1 RB



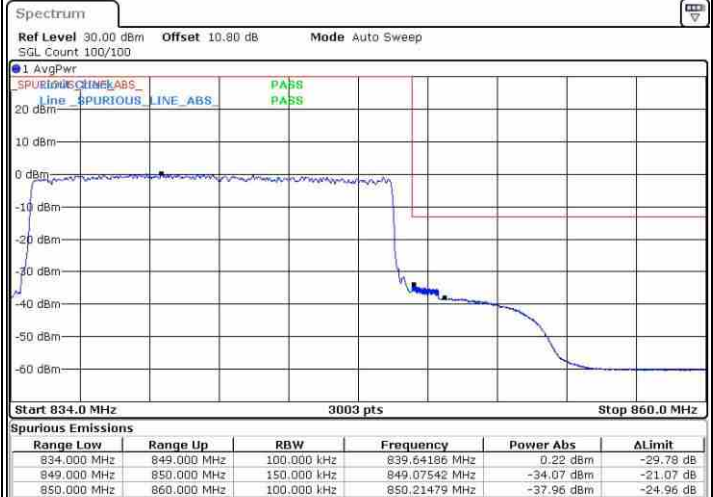
Highest Band Edge / 1 RB

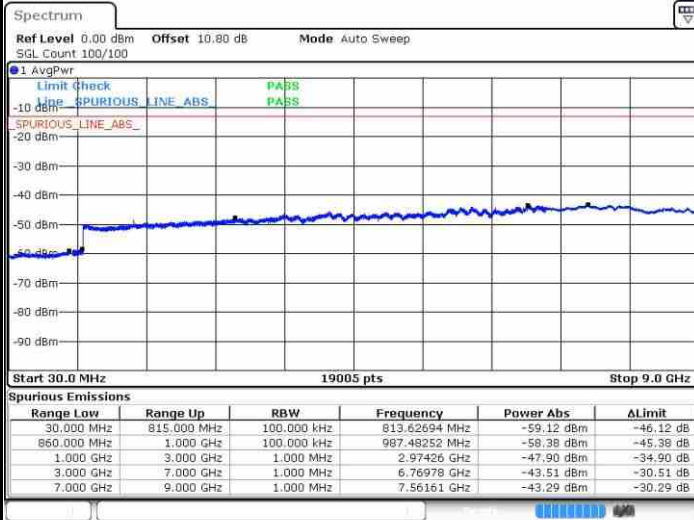


Lowest Band Edge / Full RB

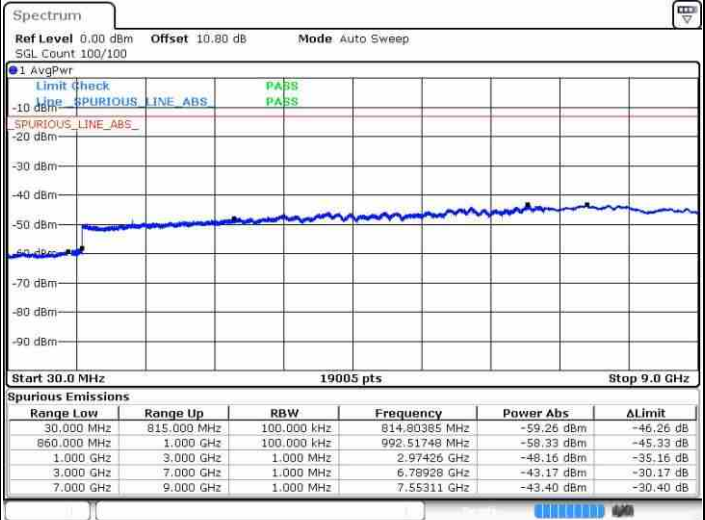


Highest Band Edge / Full RB

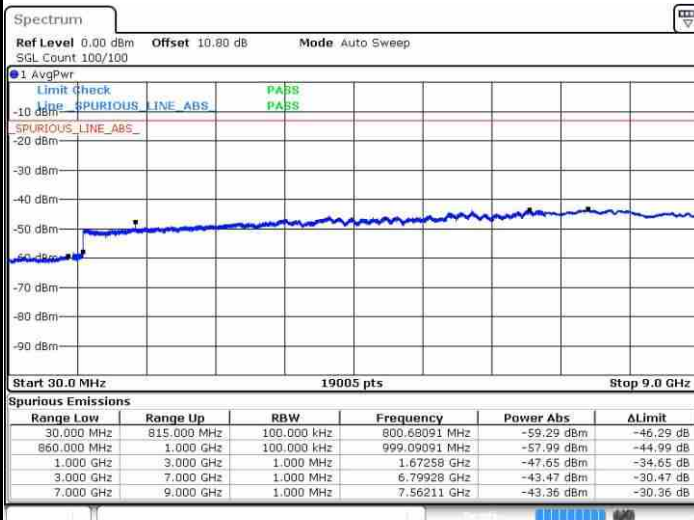


**Conducted Spurious Emission****LTE Band 26 / 1.4MHz****Lowest Channel / QPSK**

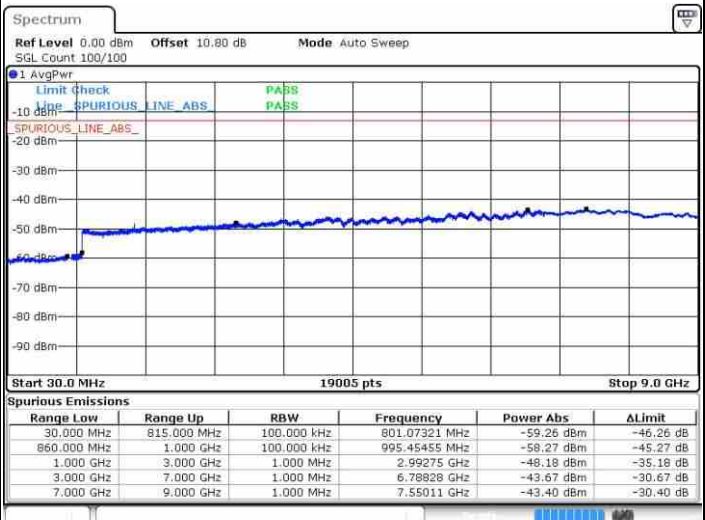
Date: 26 FEB 2019 : 23:02:25

Lowest Channel / 16QAM

Date: 26 FEB 2019 : 23:03:26

Middle Channel / QPSK

Date: 26 FEB 2019 : 23:05:12

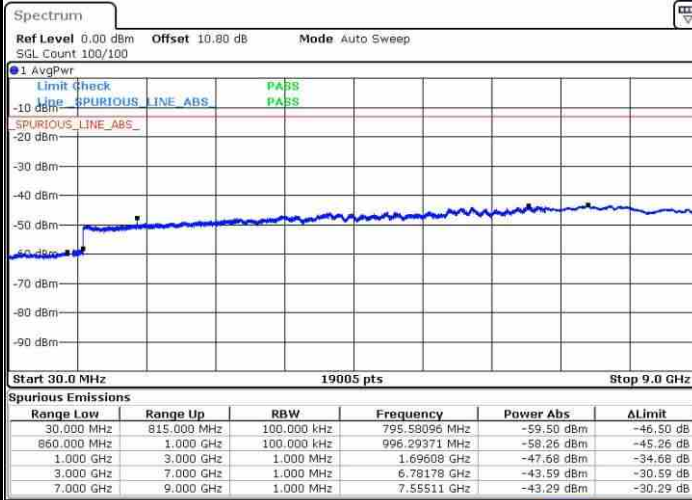
Middle Channel / 16QAM

Date: 26 FEB 2019 : 23:06:12



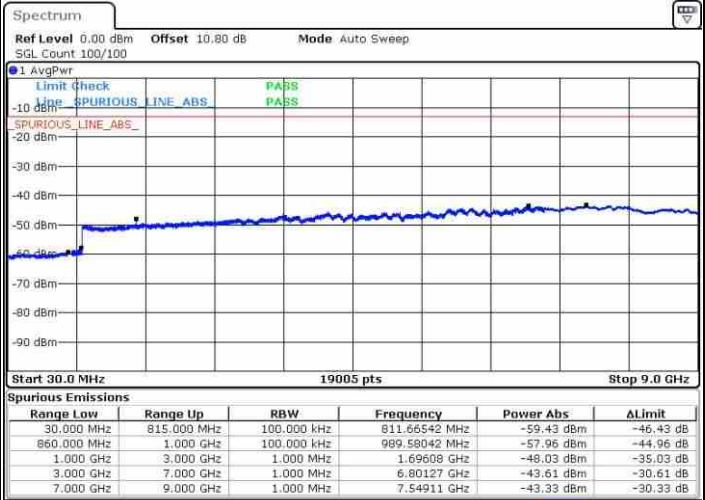
LTE Band 26 / 1.4MHz

Highest Channel / QPSK



Date: 26 FEB 2019 23:14:39

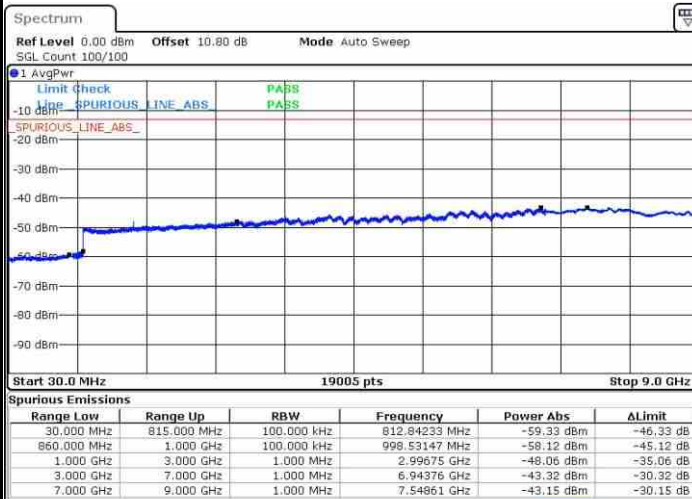
Highest Channel / 16QAM



Date: 26 FEB 2019 23:15:39

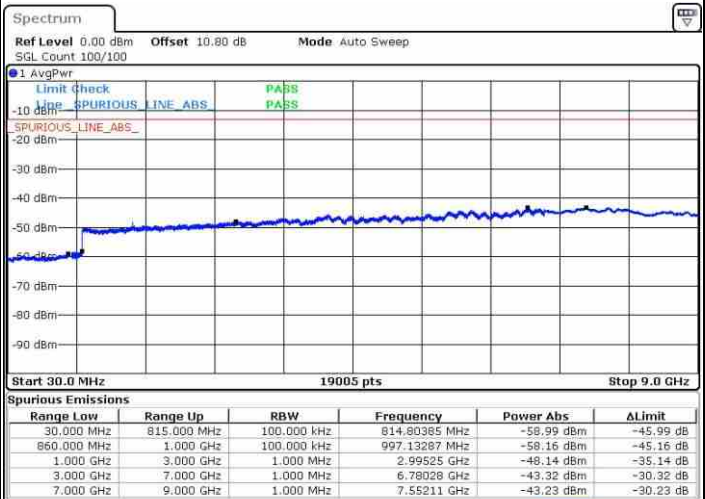
LTE Band 26 / 3MHz

Lowest Channel / QPSK



Date: 26 FEB 2019 21:36:27

Lowest Channel / 16QAM

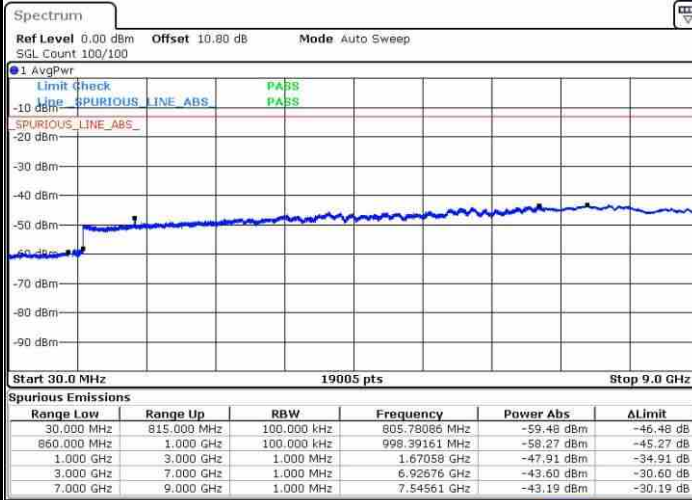


Date: 26 FEB 2019 21:37:28



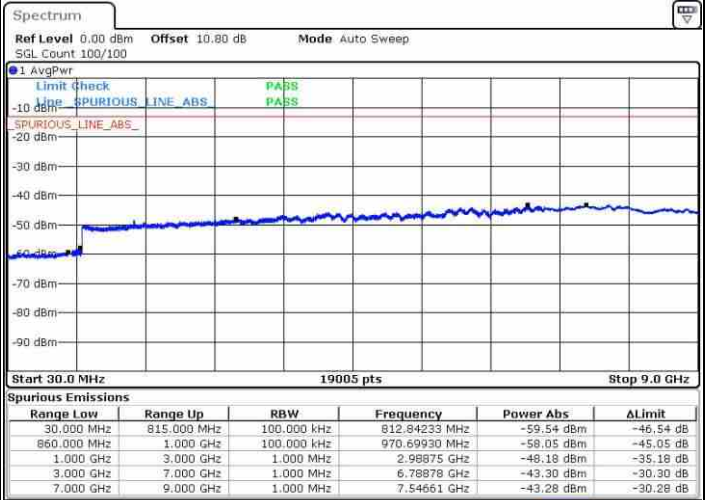
LTE Band 26 / 3MHz

Middle Channel / QPSK



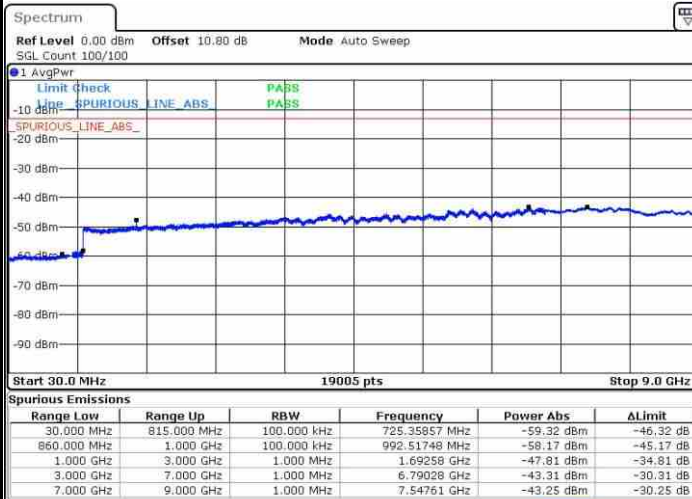
Date: 26 FEB 2019 21:39:14

Middle Channel / 16QAM



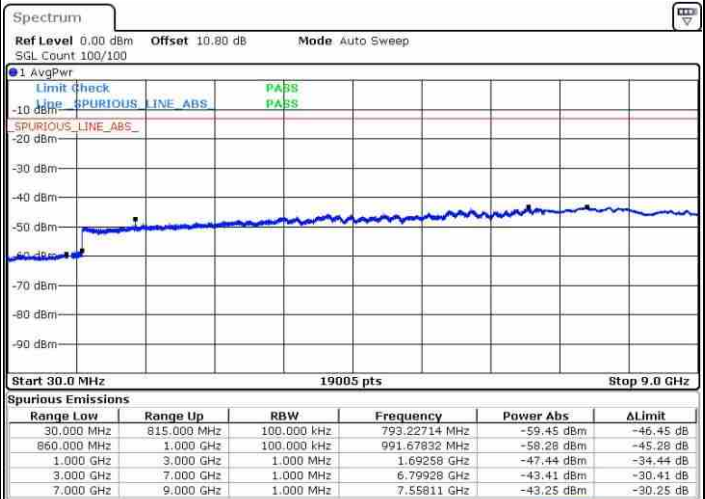
Date: 26 FEB 2019 21:40:14

Highest Channel / QPSK



Date: 26 FEB 2019 21:46:40

Highest Channel / 16QAM

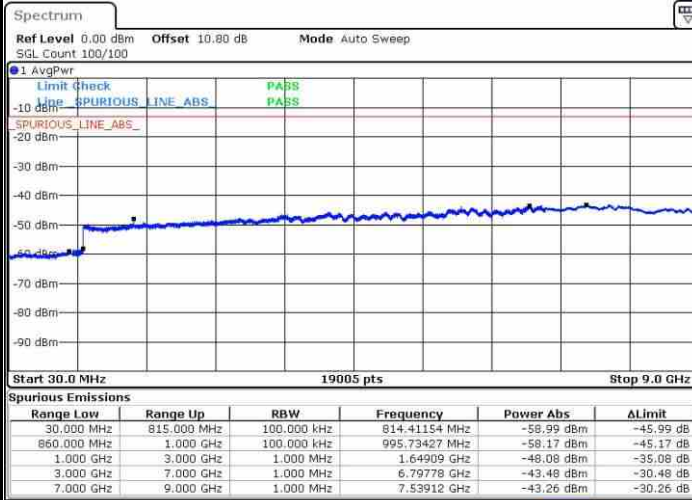


Date: 26 FEB 2019 21:47:40



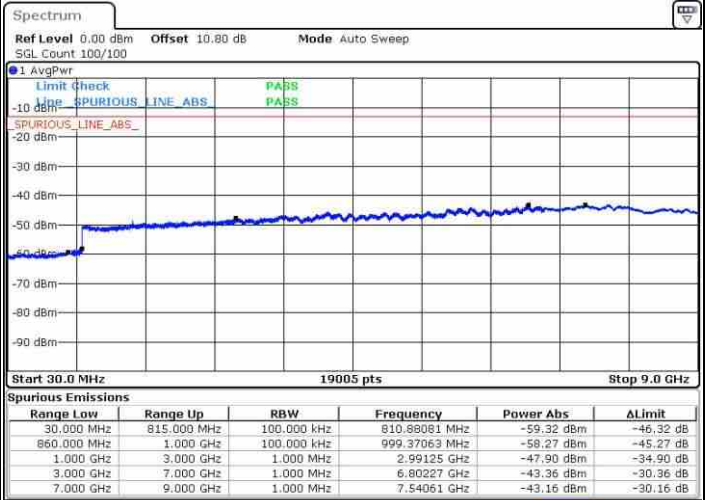
LTE Band 26 / 5MHz

Lowest Channel / QPSK



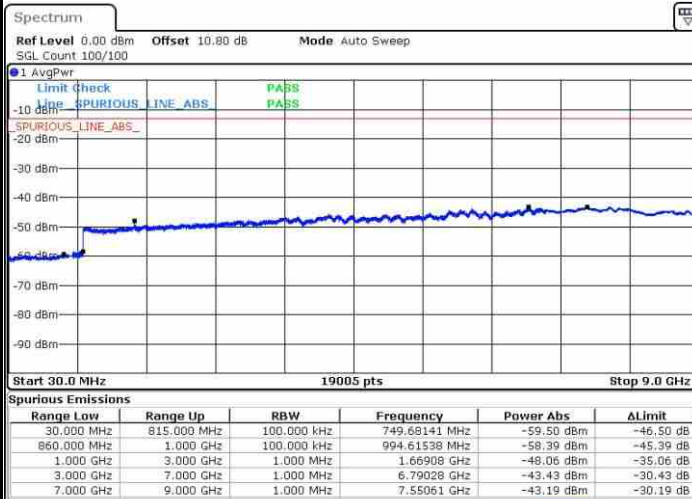
Date: 26 FEB 2019 21:54:07

Lowest Channel / 16QAM



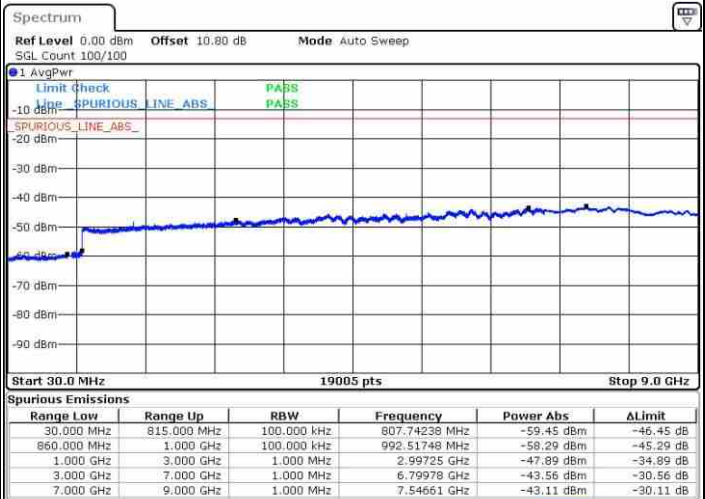
Date: 26 FEB 2019 21:55:07

Middle Channel / QPSK



Date: 26 FEB 2019 21:56:53

Middle Channel / 16QAM

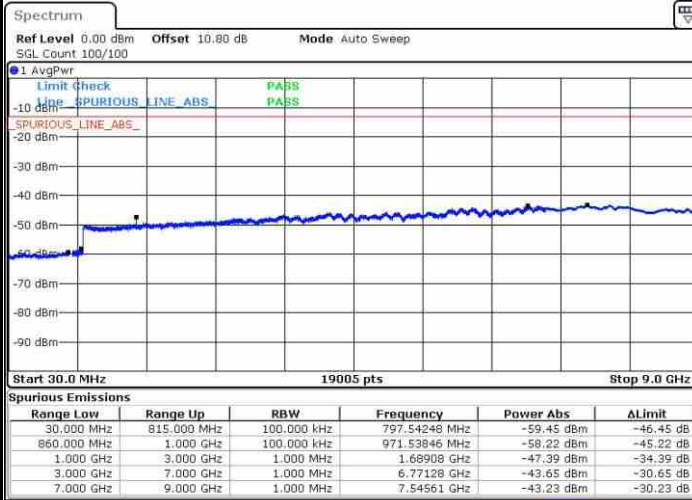


Date: 26 FEB 2019 21:57:53



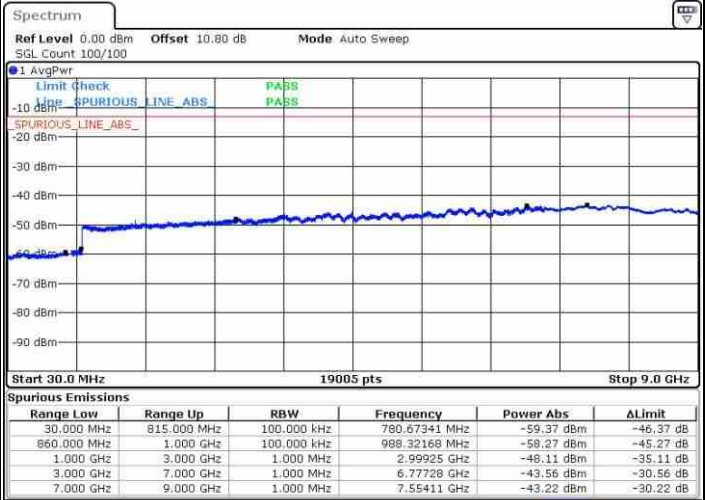
LTE Band 26 / 5MHz

Highest Channel / QPSK



Date: 26 FEB 2019 22:04:20

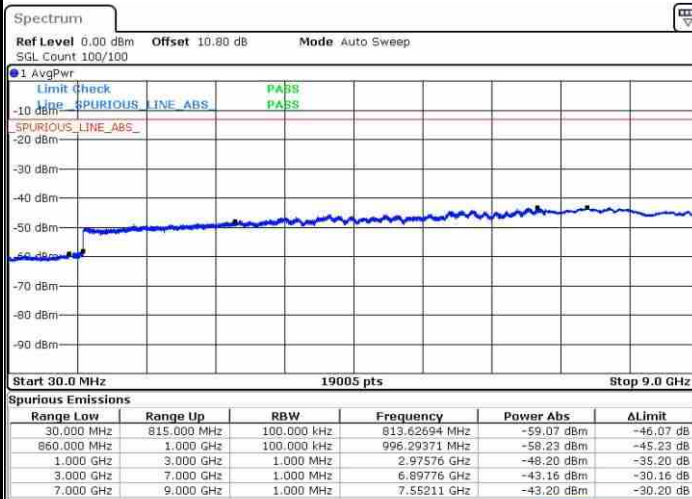
Highest Channel / 16QAM



Date: 26 FEB 2019 22:05:20

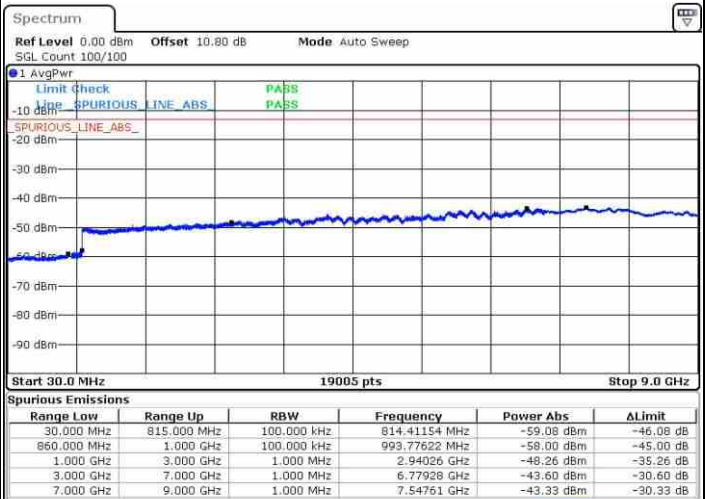
LTE Band 26 / 10MHz

Lowest Channel / QPSK



Date: 26 FEB 2019 22:11:47

Lowest Channel / 16QAM

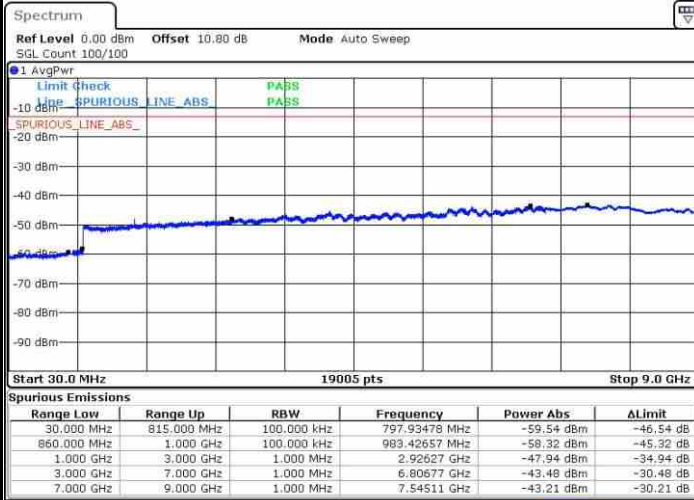


Date: 26 FEB 2019 22:12:47



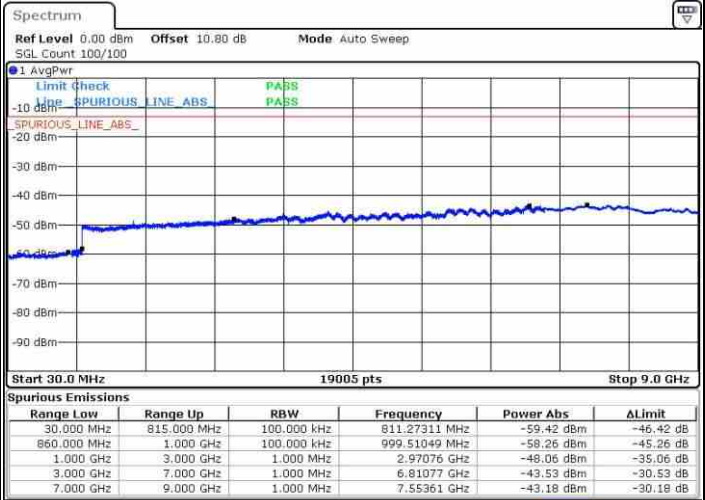
LTE Band 26 / 10MHz

Middle Channel / QPSK



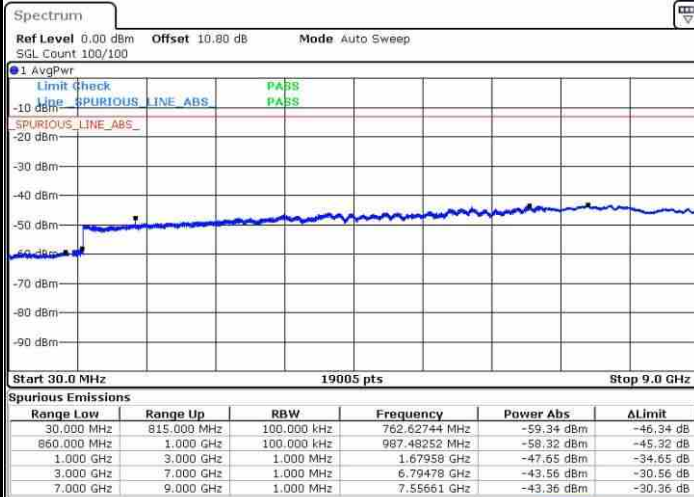
Date: 26 FEB 2019 22:14:33

Middle Channel / 16QAM



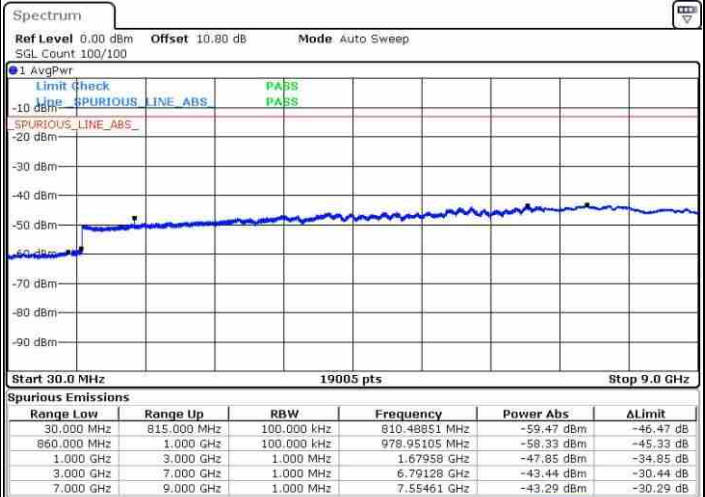
Date: 26 FEB 2019 22:15:34

Highest Channel / QPSK



Date: 26 FEB 2019 22:22:01

Highest Channel / 16QAM

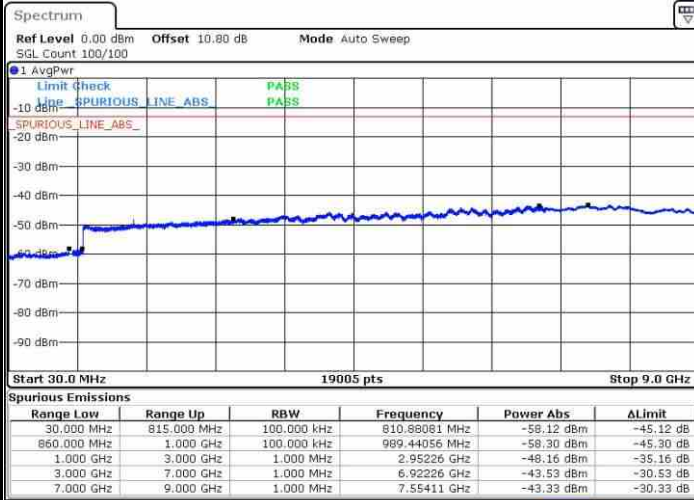


Date: 26 FEB 2019 22:23:01



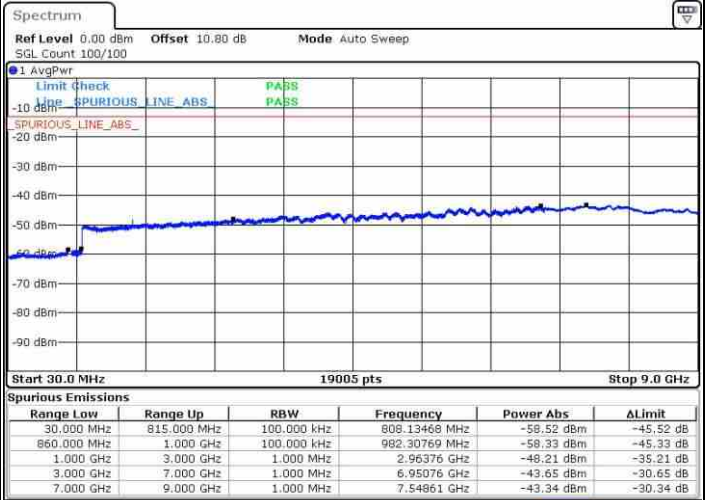
LTE Band 26 / 15MHz

Lowest Channel / QPSK



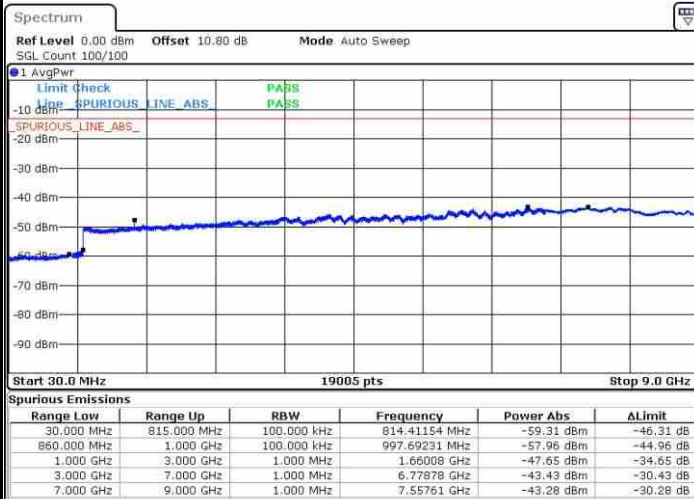
Date: 26 FEB 2019 22:29:27

Lowest Channel / 16QAM



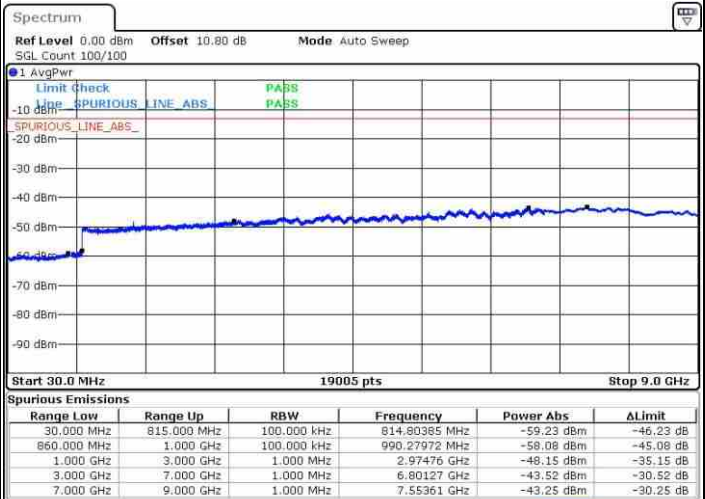
Date: 26 FEB 2019 22:30:27

Middle Channel / QPSK



Date: 26 FEB 2019 22:32:13

Middle Channel / 16QAM

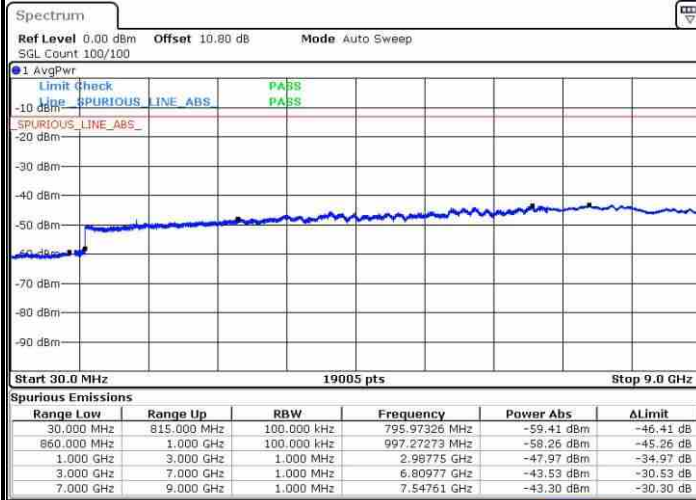


Date: 26 FEB 2019 22:33:13



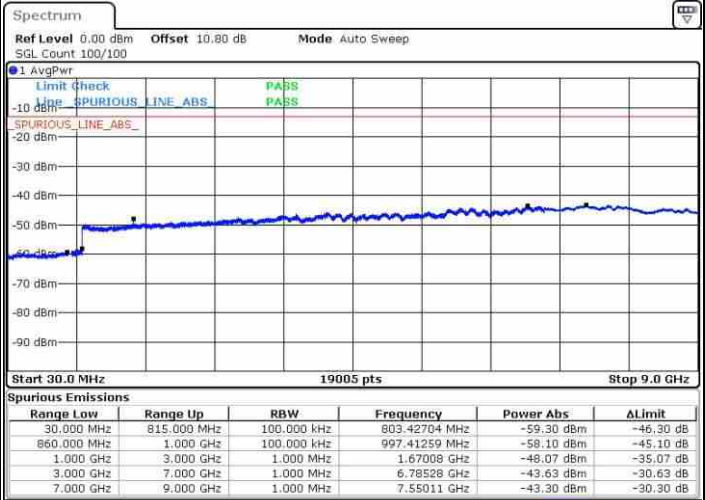
LTE Band 26 / 15MHz

Highest Channel / QPSK



Date: 26 FEB 2019 22:39:39

Highest Channel / 16QAM

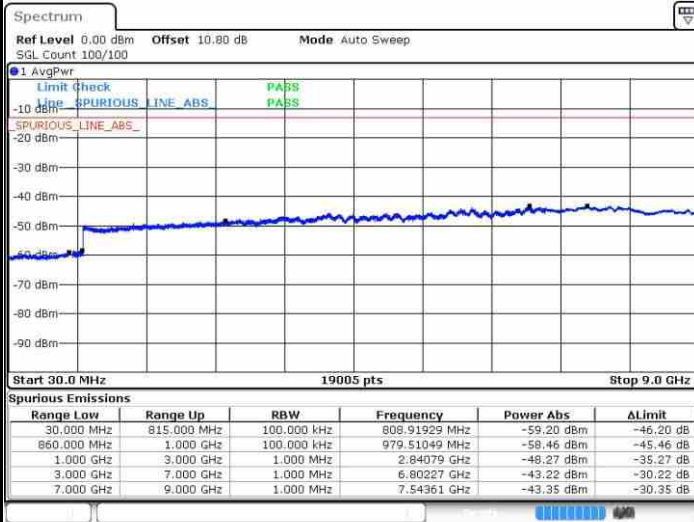


Date: 26 FEB 2019 22:40:39



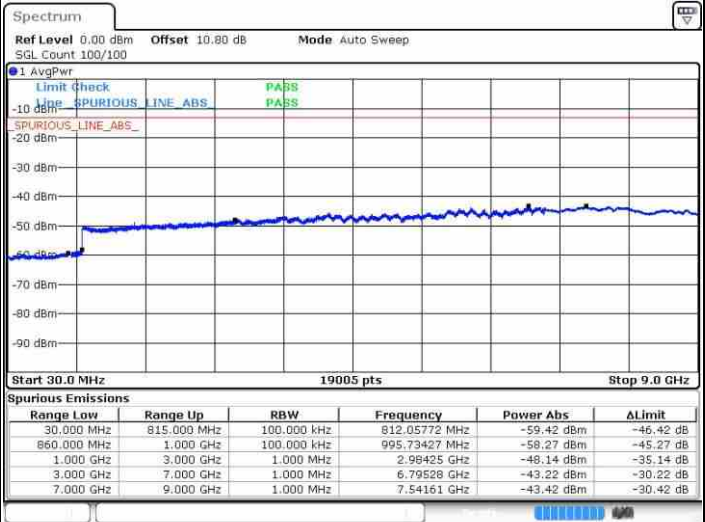
LTE Band 26 / 1.4MHz

Lowest Channel / 64QAM



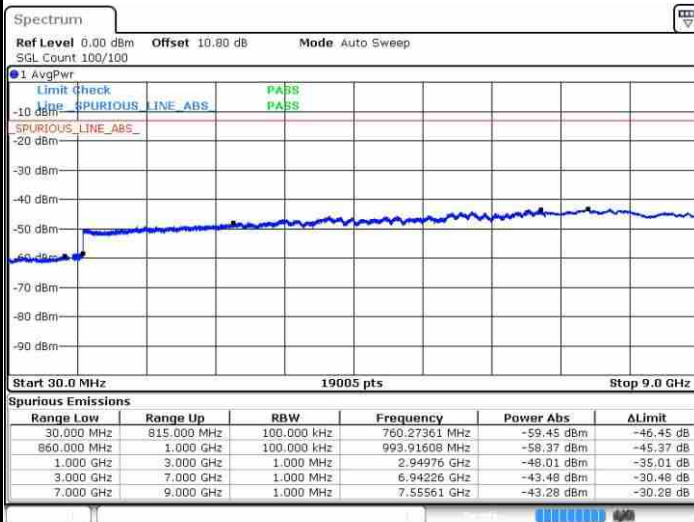
Date: 26 FEB 2019 23:20:23

Middle Channel / 64QAM



Date: 26 FEB 2019 23:21:46

Highest Channel / 64QAM

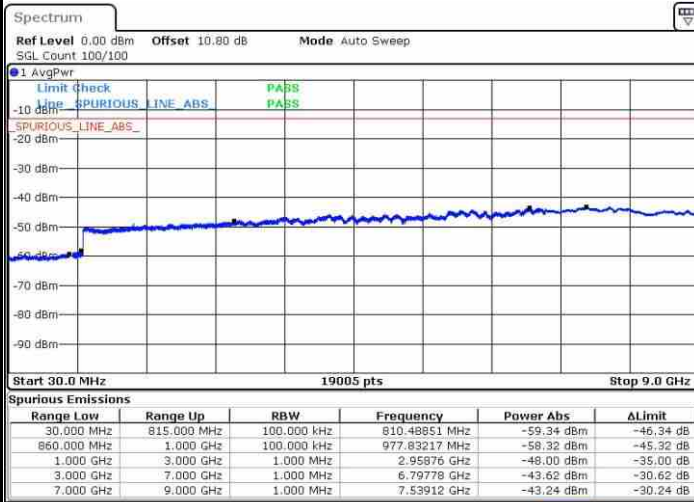


Date: 26 FEB 2019 23:26:29



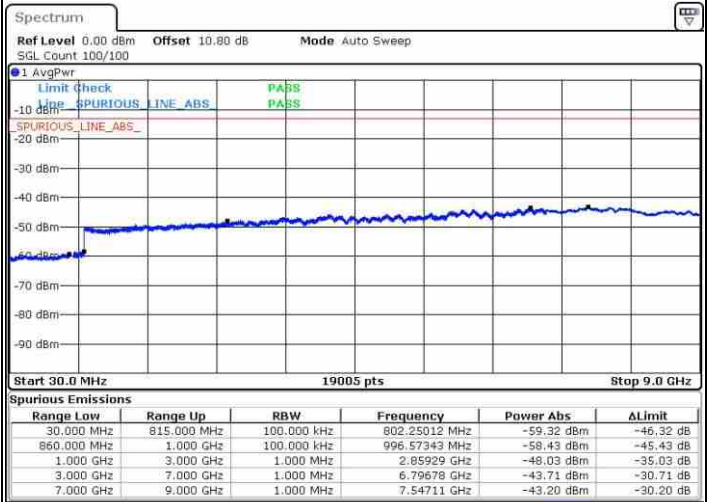
LTE Band 26 / 3MHz

Lowest Channel / 64QAM



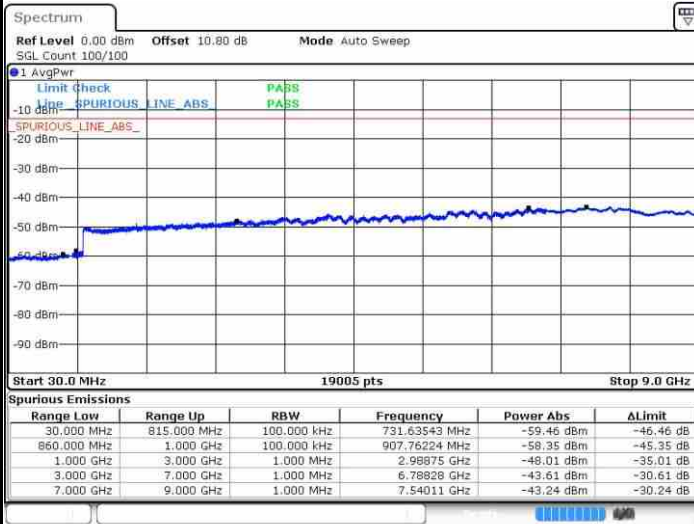
Date: 26 FEB 2019 20:58:23

Middle Channel / 64QAM



Date: 26 FEB 2019 20:59:47

Highest Channel / 64QAM

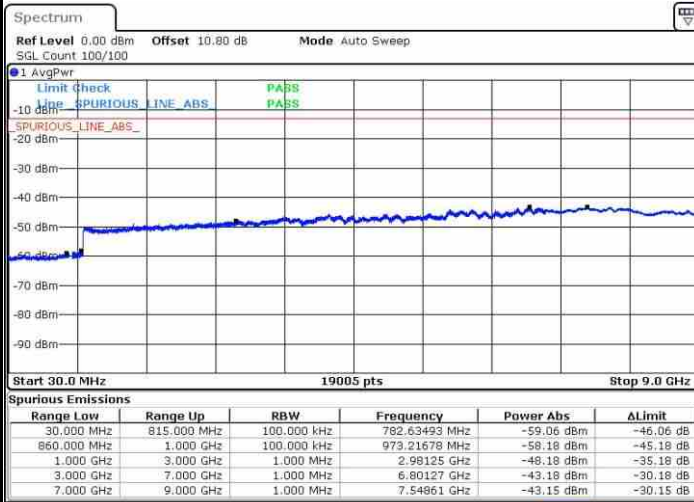


Date: 26 FEB 2019 21:03:30



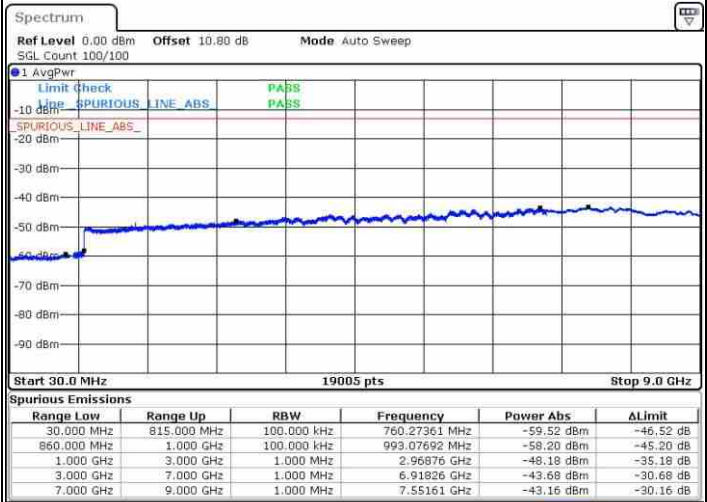
LTE Band 26 / 5MHz

Lowest Channel / 64QAM



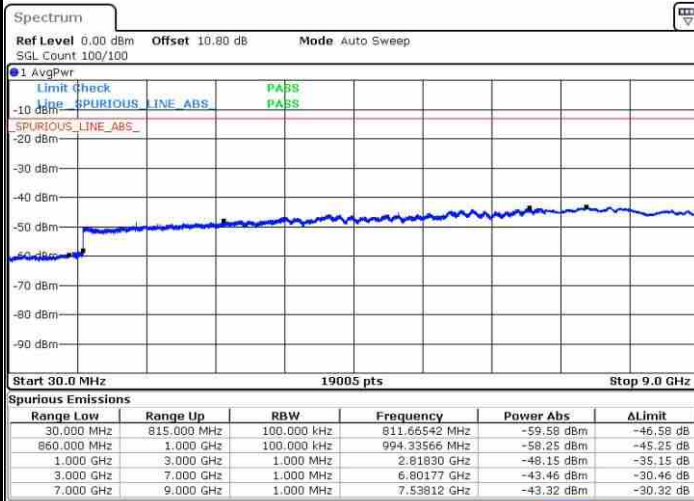
Date: 26 FEB 2019 21:07:14

Middle Channel / 64QAM



Date: 26 FEB 2019 21:08:37

Highest Channel / 64QAM

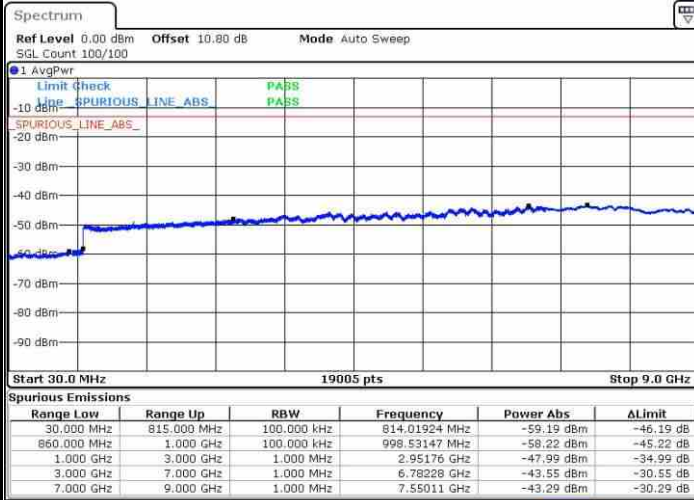


Date: 26 FEB 2019 21:12:20



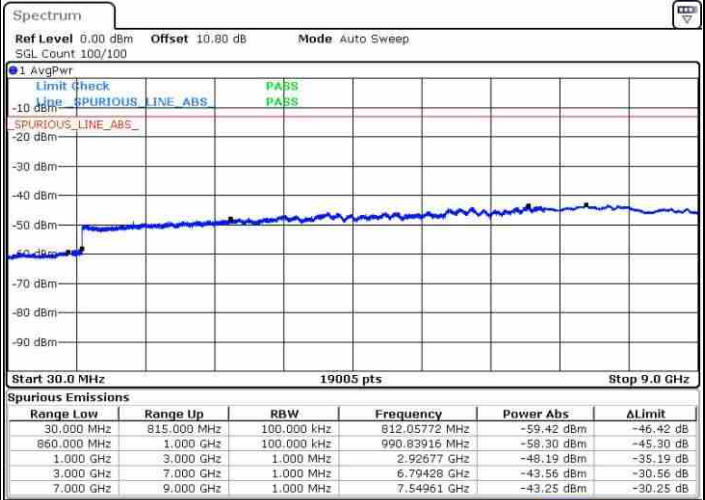
LTE Band 26 / 10MHz

Lowest Channel / 64QAM



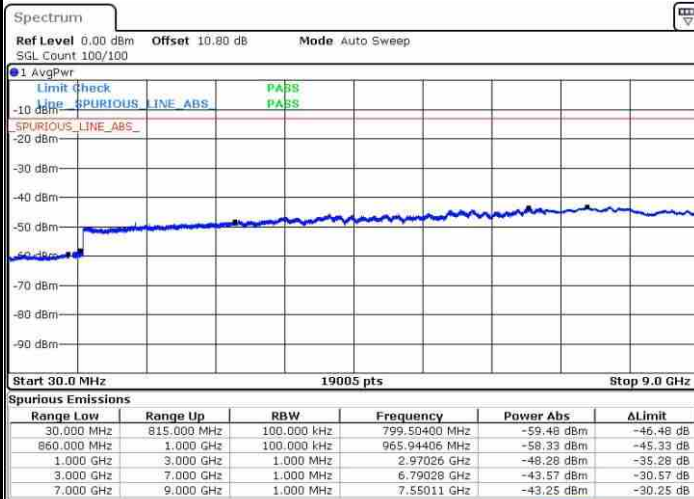
Date: 26 FEB 2019 21:16:04

Middle Channel / 64QAM



Date: 26 FEB 2019 21:17:27

Highest Channel / 64QAM

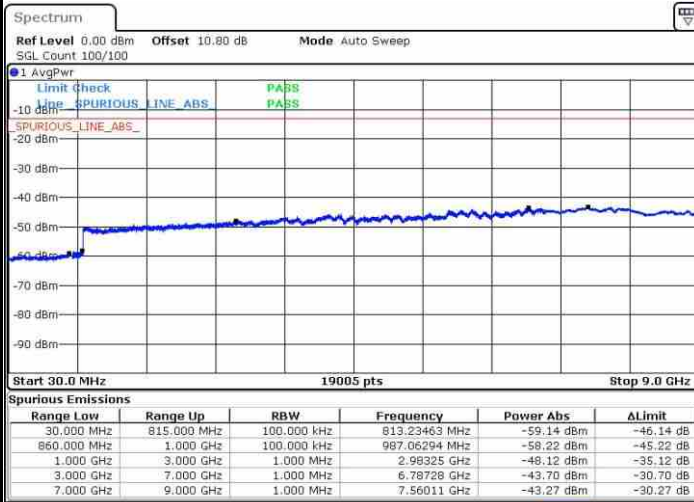


Date: 26 FEB 2019 21:21:10



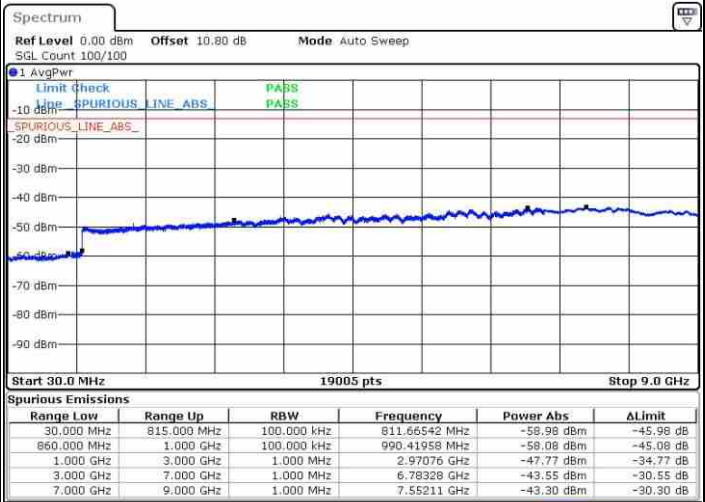
LTE Band 26 / 15MHz

Lowest Channel / 64QAM



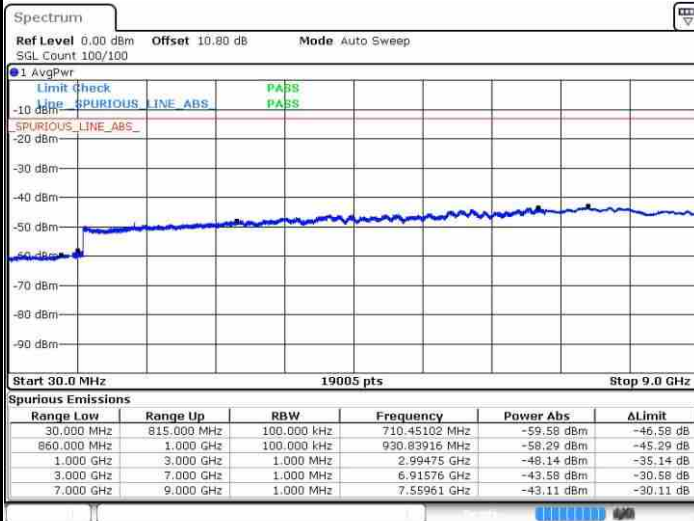
Date: 26 FEB 2019 22:44:23

Middle Channel / 64QAM



Date: 26 FEB 2019 22:45:46

Highest Channel / 64QAM



Date: 26 FEB 2019 21:30:00

Frequency Stability

Test Conditions		LTE Band 26 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0084	PASS
40	Normal Voltage	0.0012	
30	Normal Voltage	0.0013	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0084	
0	Normal Voltage	0.0059	
-10	Normal Voltage	0.0001	
-20	Normal Voltage	0.0014	
-30	Normal Voltage	0.0001	
20	Maximum Voltage	0.0071	
20	Normal Voltage	0.0084	
20	Battery End Point	0.0004	

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 38

Peak-to-Average Ratio

Mode	LTE Band 38 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.39	4.52	4.09	5.59	PASS
Middle CH	3.39	4.52	4.23	5.62	
Highest CH	3.59	4.52	4.61	5.62	
Mode	LTE Band 38 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	4.96	6.23	-	-	PASS
Middle CH	5.07	6.26	-	-	
Highest CH	5.65	6.26	-	-	



LTE Band 38 / 20MHz / QPSK

Lowest Channel / 1RB



Lowest Channel / Full RB



Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB



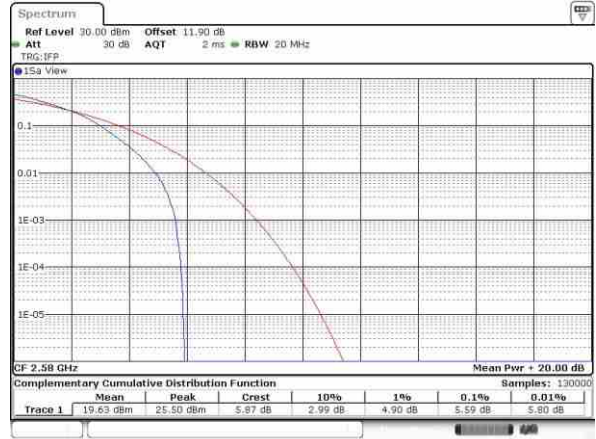


LTE Band 38 / 20MHz / 16QAM

Lowest Channel / 1RB



Lowest Channel / Full RB



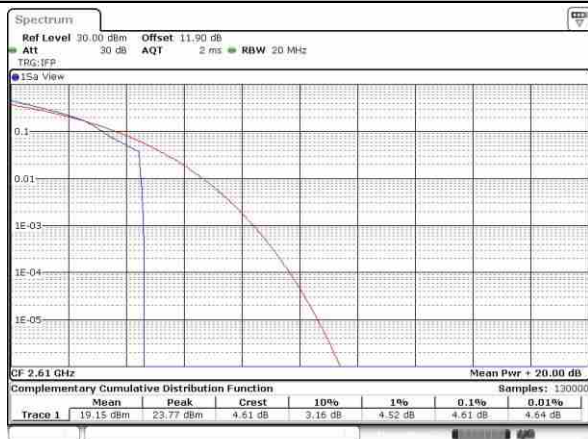
Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB



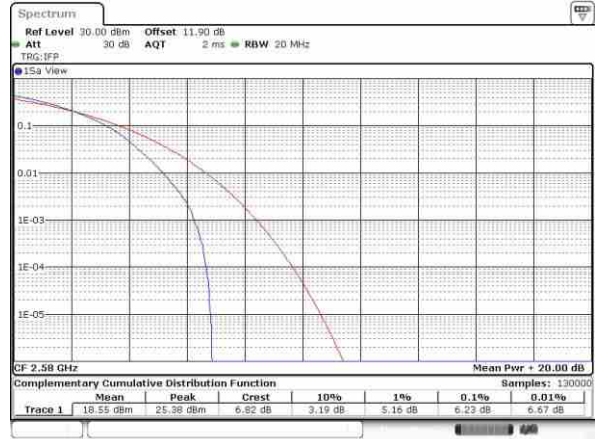


LTE Band 38 / 20MHz / 64QAM

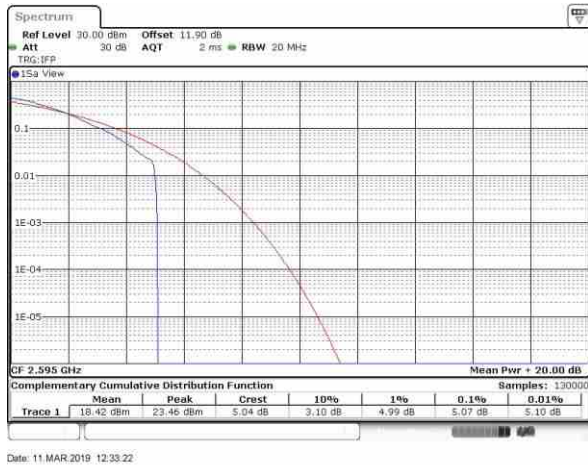
Lowest Channel / 1RB



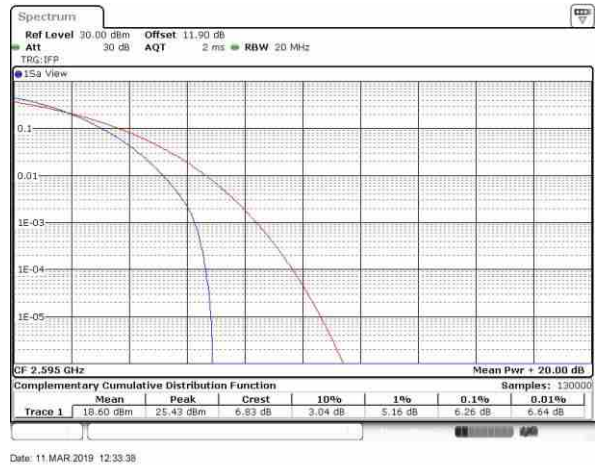
Lowest Channel / Full RB



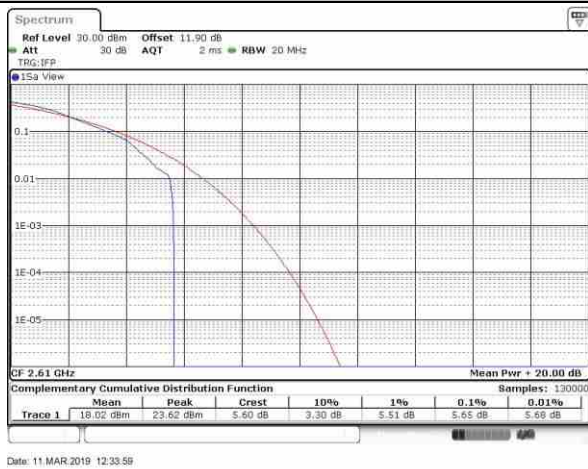
Middle Channel / 1RB



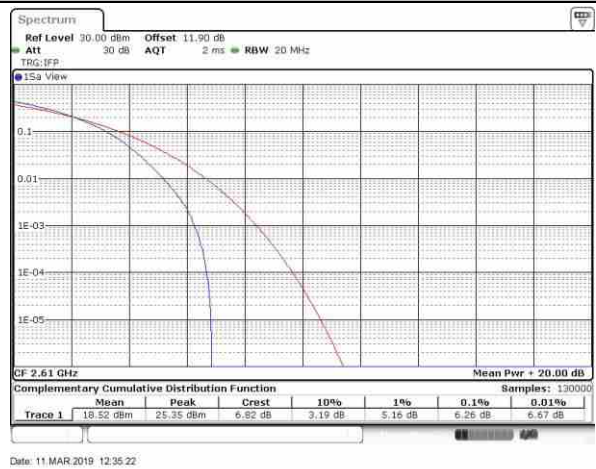
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB



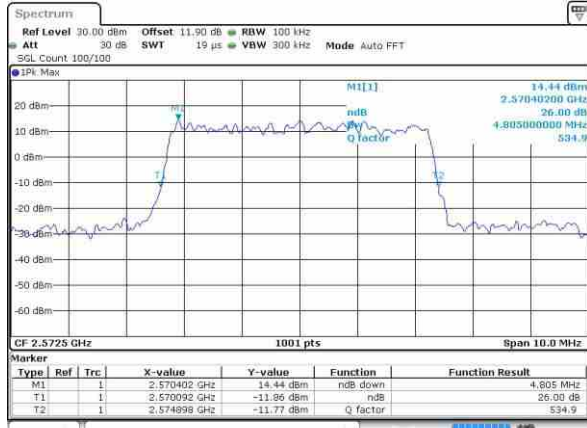
**26dB Bandwidth**

Mode	LTE Band 38 : 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	-	-	-	-	4.81	4.86	9.63	9.63	14.15	14.45	20.18	20.14
Middle CH	-	-	-	-	4.88	4.91	9.79	9.63	14.24	14.33	20.14	20.10
Highest CH	-	-	-	-	4.75	4.91	9.71	9.69	14.24	14.15	20.34	20.34
Mode	LTE Band 38 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.96	-	9.61	-	14.24	-	20.06	-
Middle CH	-	-	-	-	4.88	-	9.79	-	14.42	-	20.06	-
Highest CH	-	-	-	-	4.82	-	9.71	-	14.45	-	20.10	-



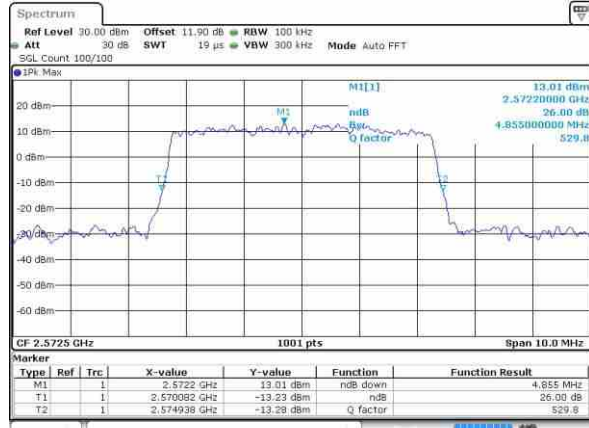
LTE Band 38

Lowest Channel / 5MHz / QPSK



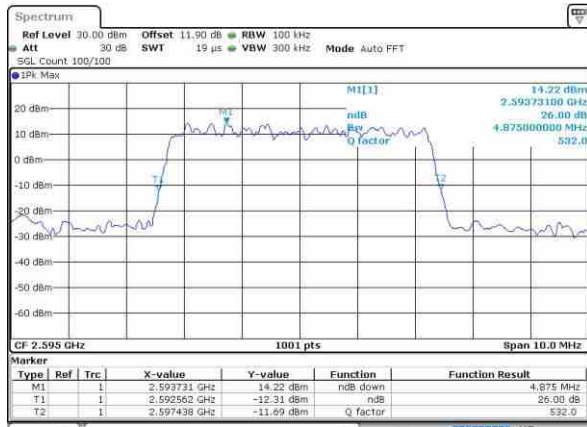
Date: 11 MAR 2019 11:53:56

Lowest Channel / 5MHz / 16QAM



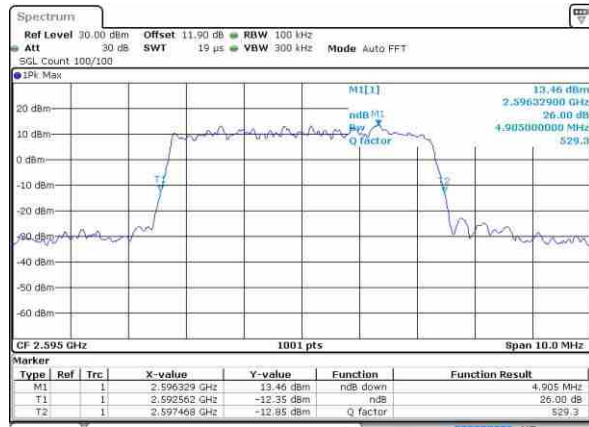
Date: 11 MAR 2019 11:54:08

Middle Channel / 5MHz / QPSK



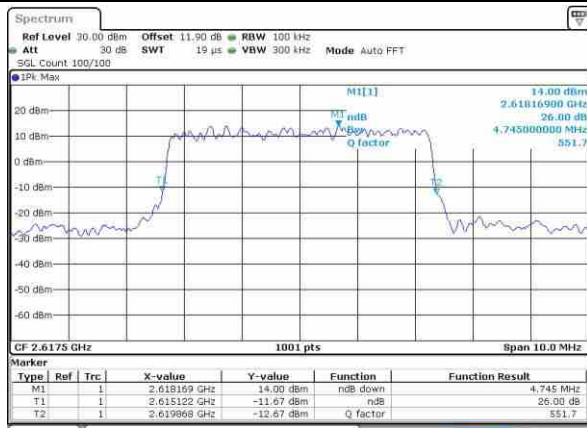
Date: 11 MAR 2019 11:54:44

Middle Channel / 5MHz / 16QAM



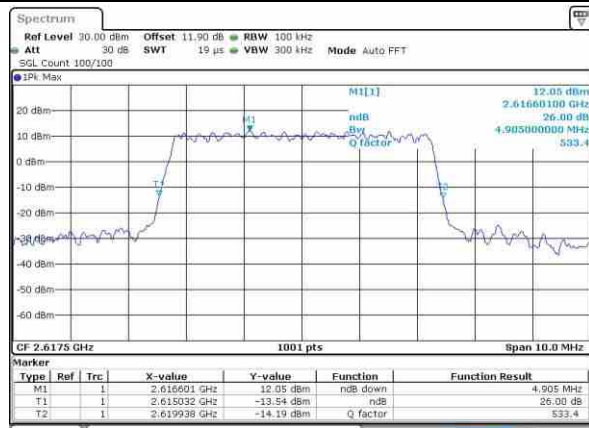
Date: 11 MAR 2019 11:54:56

Highest Channel / 5MHz / QPSK



Date: 11 MAR 2019 11:55:33

Highest Channel / 5MHz / 16QAM

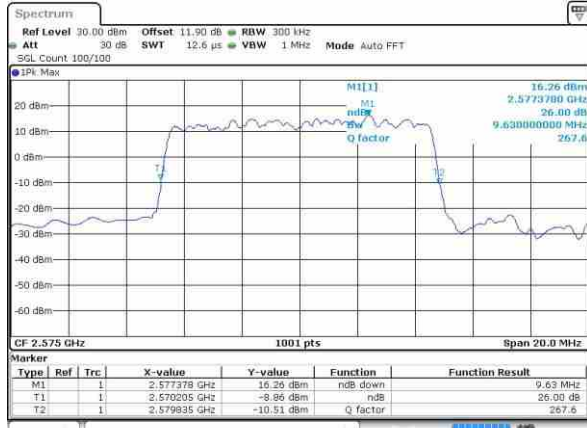


Date: 11 MAR 2019 11:55:45

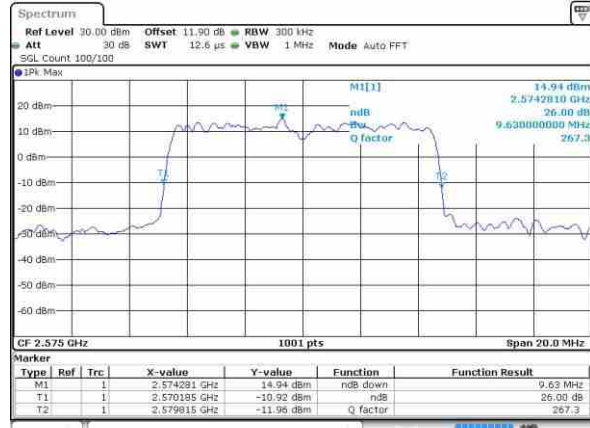


LTE Band 38

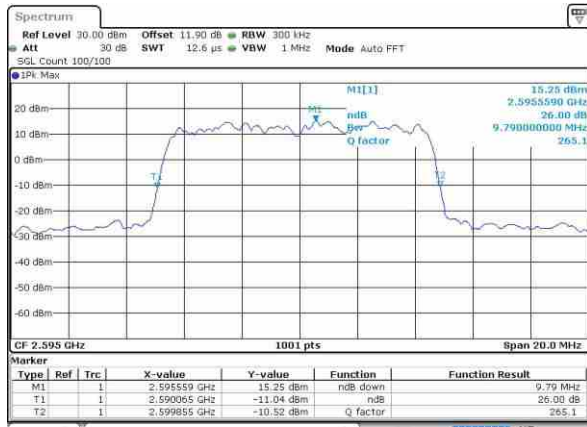
Lowest Channel / 10MHz / QPSK



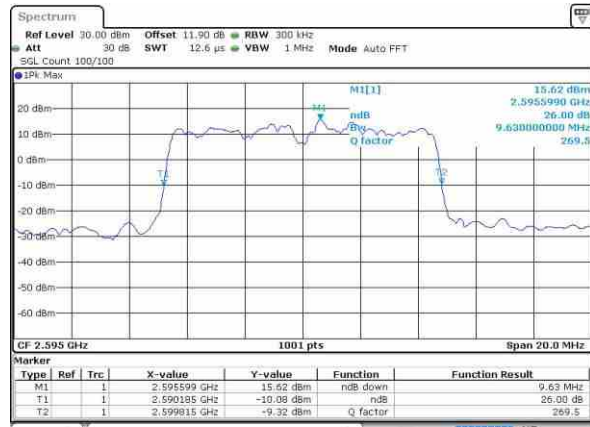
Lowest Channel / 10MHz / 16QAM



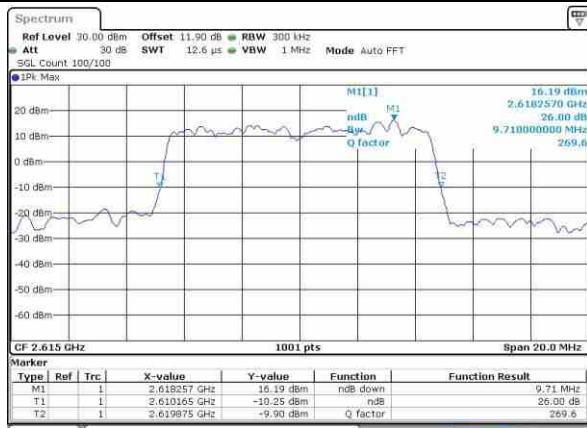
Middle Channel / 10MHz / QPSK



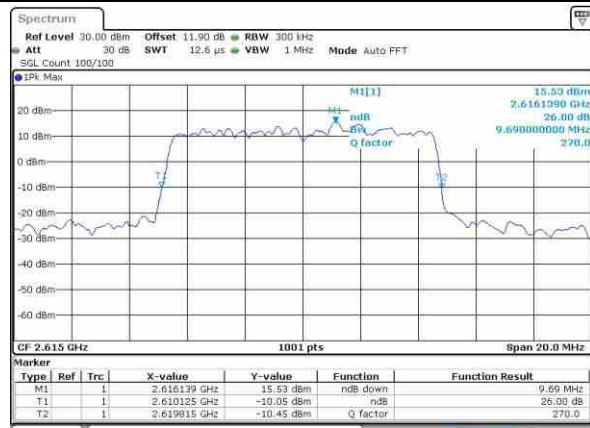
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



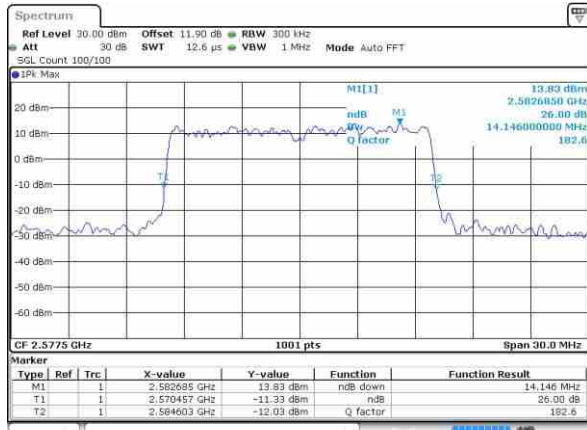
Highest Channel / 10MHz / 16QAM





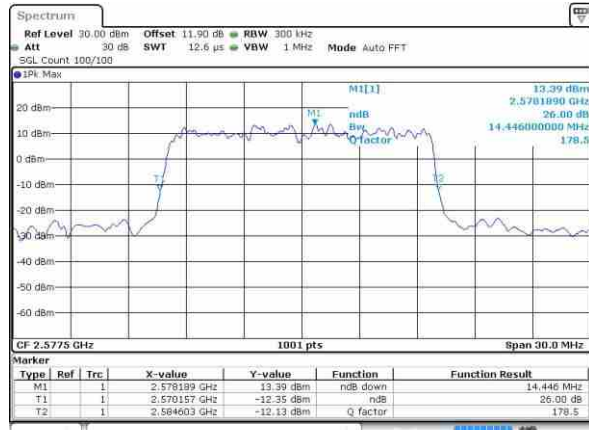
LTE Band 38

Lowest Channel / 15MHz / QPSK



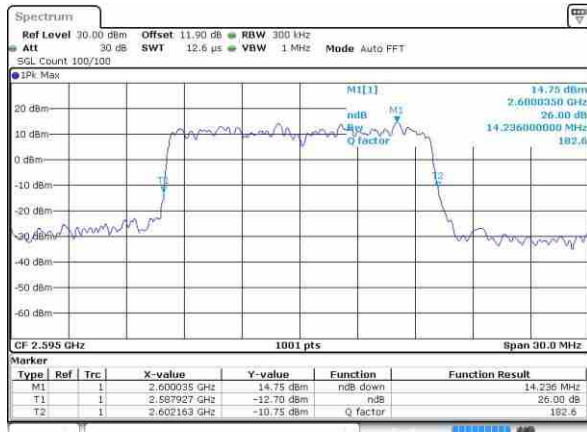
Date: 11 MAR 2019 11:58:51

Lowest Channel / 15MHz / 16QAM



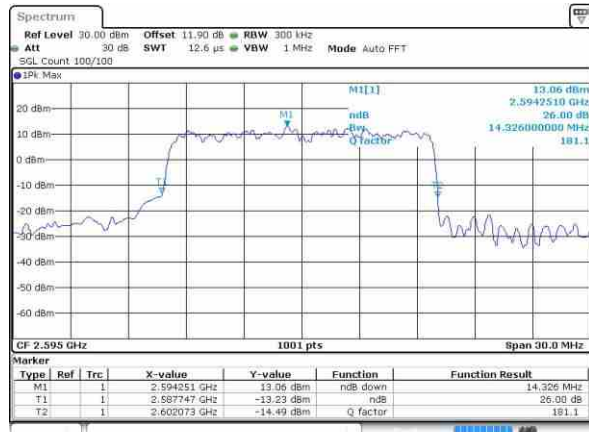
Date: 11 MAR 2019 11:58:04

Middle Channel / 15MHz / QPSK



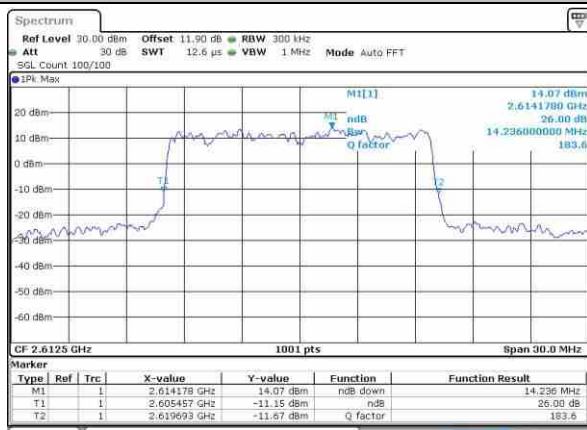
Date: 11 MAR 2019 11:58:40

Middle Channel / 15MHz / 16QAM



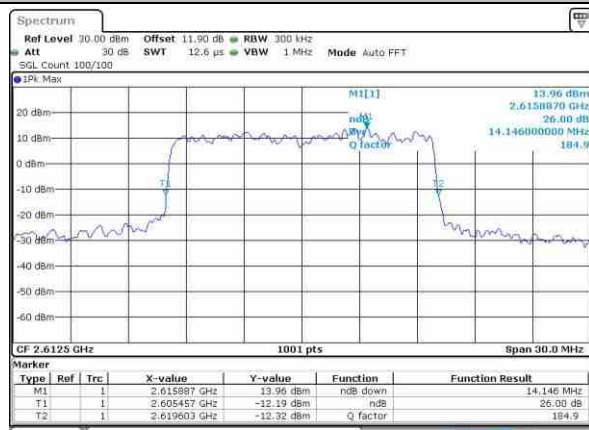
Date: 11 MAR 2019 11:58:52

Highest Channel / 15MHz / QPSK



Date: 11 MAR 2019 12:00:29

Highest Channel / 15MHz / 16QAM

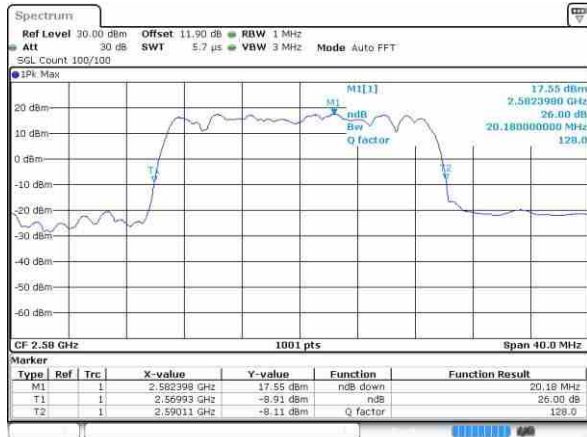


Date: 11 MAR 2019 12:00:42

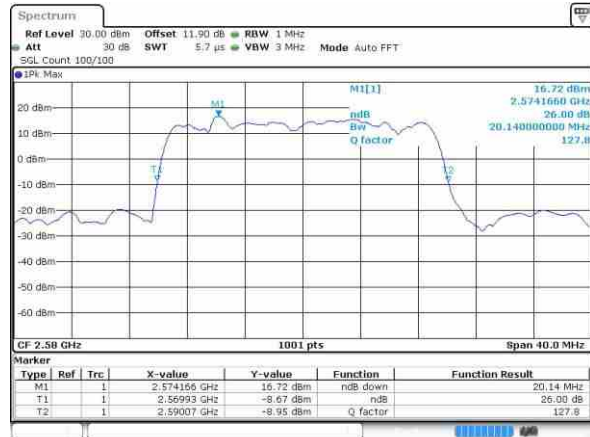


LTE Band 38

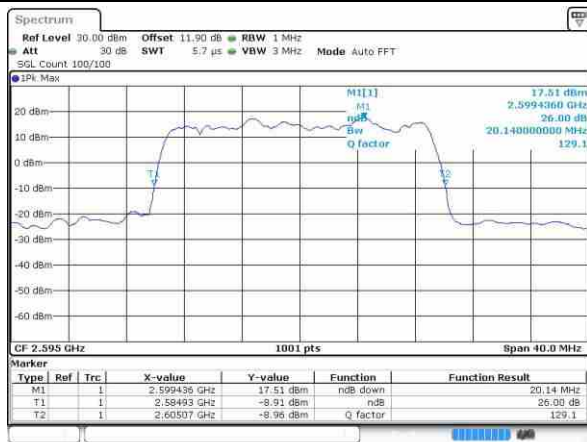
Lowest Channel / 20MHz / QPSK



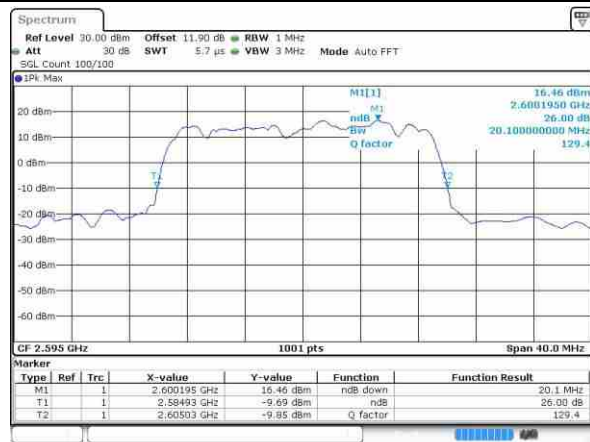
Lowest Channel / 20MHz / 16QAM



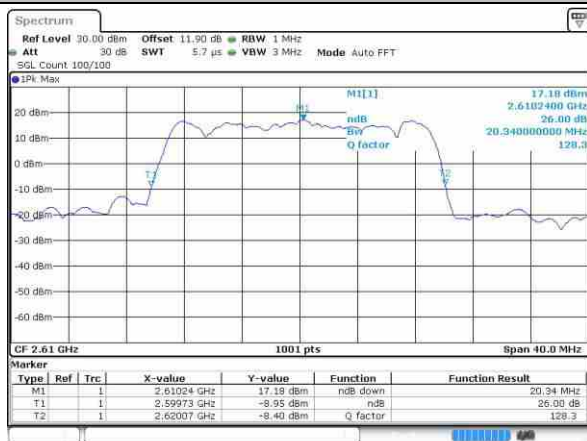
Middle Channel / 20MHz / QPSK



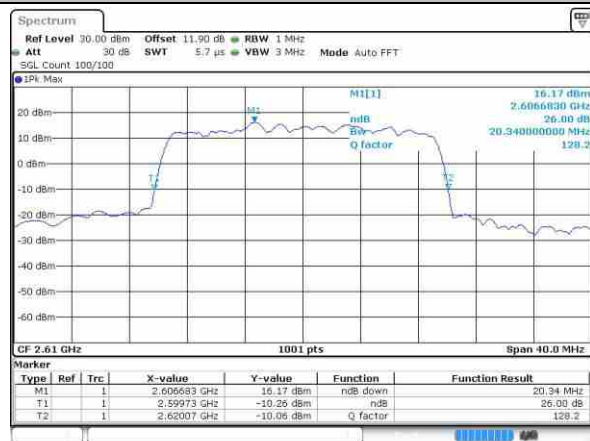
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK



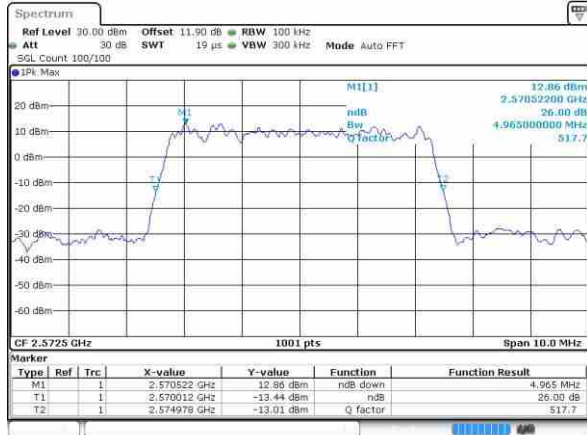
Highest Channel / 20MHz / 16QAM





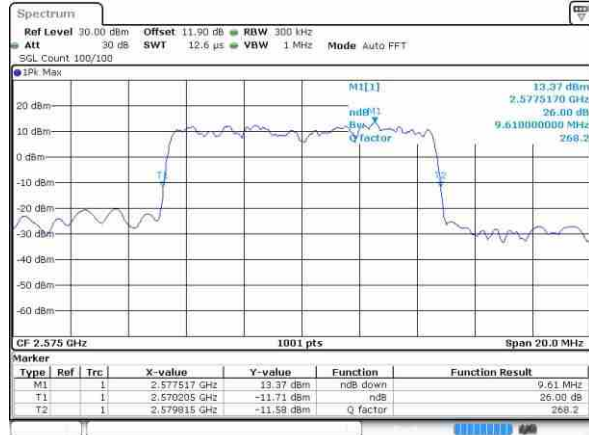
LTE Band 38

Lowest Channel / 5MHz / 64QAM



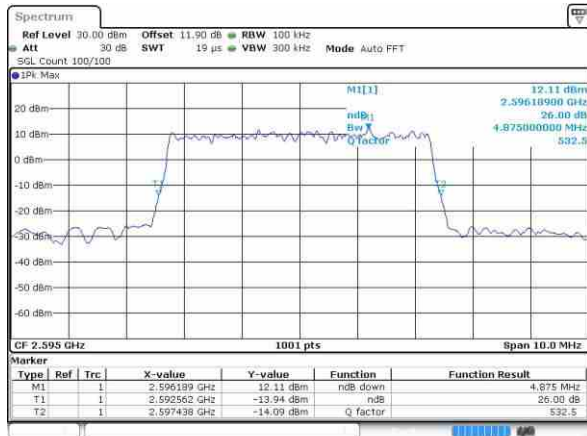
Date: 11 MAR 2019 12:03:35

Lowest Channel / 10MHz / 64QAM



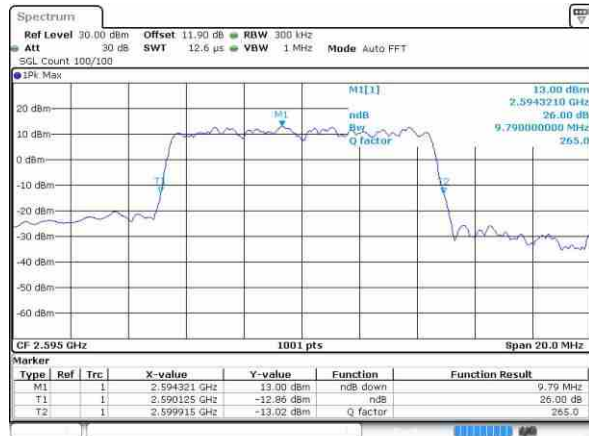
Date: 11 MAR 2019 12:04:49

Middle Channel / 5MHz / 64QAM



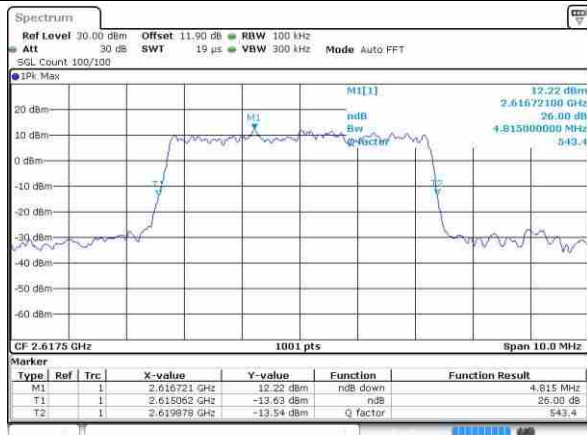
Date: 11 MAR 2019 12:03:58

Middle Channel / 10MHz / 64QAM



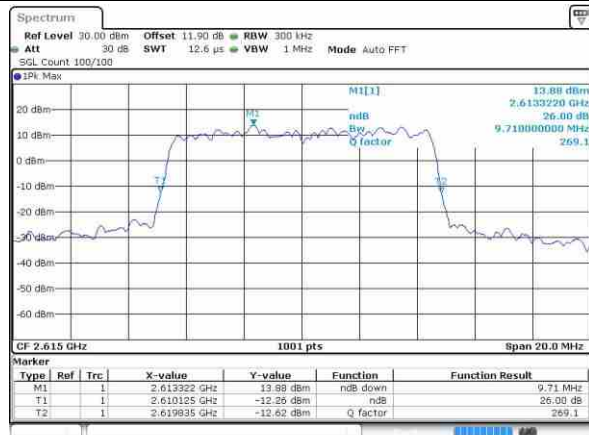
Date: 11 MAR 2019 12:05:12

Highest Channel / 5MHz / 64QAM



Date: 11 MAR 2019 12:04:23

Highest Channel / 10MHz / 64QAM

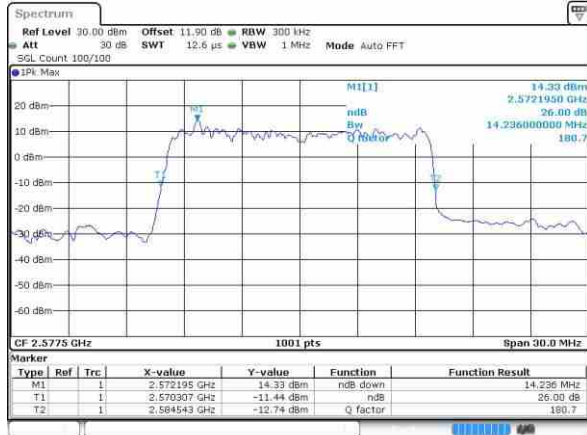


Date: 11 MAR 2019 12:05:37

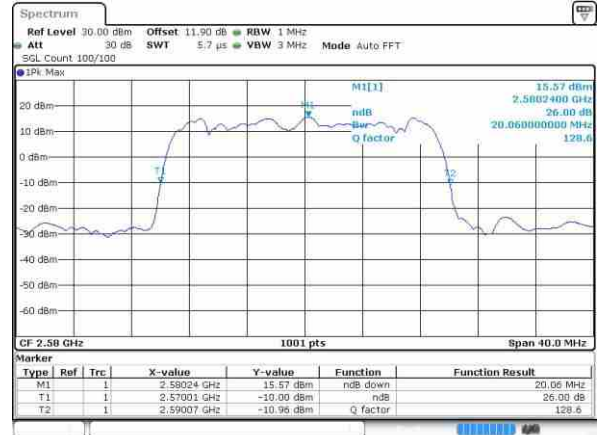


LTE Band 38

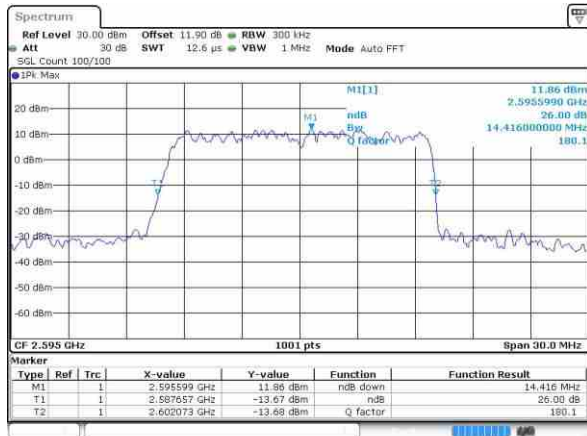
Lowest Channel / 15MHz / 64QAM



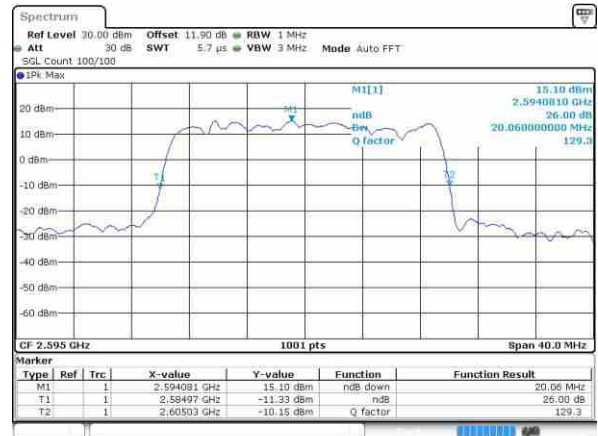
Lowest Channel / 20MHz / 64QAM



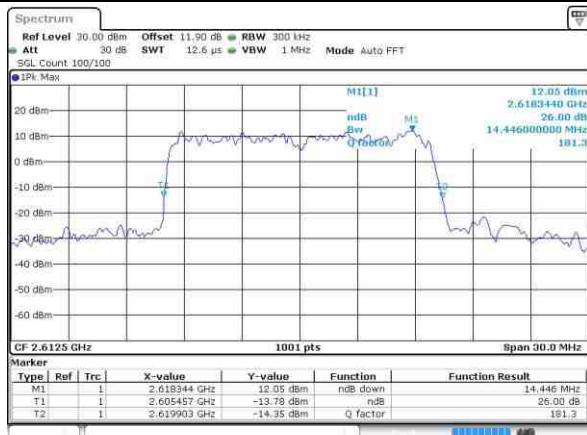
Middle Channel / 15MHz / 64QAM



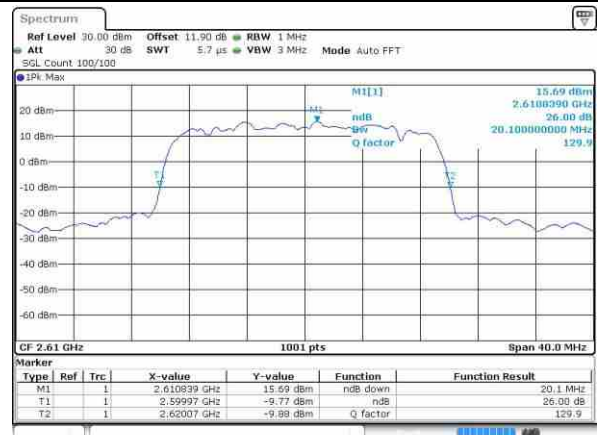
Middle Channel / 20MHz / 64QAM



Highest Channel / 15MHz / 64QAM



Highest Channel / 20MHz / 64QAM



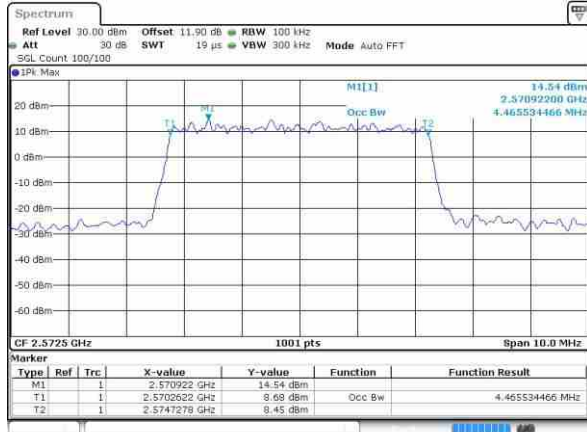
**Occupied Bandwidth**

Mode	LTE Band 38 : 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	-	-	-	-	4.47	4.49	9.01	8.99	13.52	13.4	18.42	18.34
Middle CH	-	-	-	-	4.48	4.49	9.01	9.05	13.43	13.43	18.1	18.3
Highest CH	-	-	-	-	4.51	4.49	9.01	9.05	13.58	13.46	18.38	18.18
Mode	LTE Band 38 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.48	-	9.01	-	13.46	-	18.34	-
Middle CH	-	-	-	-	4.43	-	8.99	-	13.43	-	18.34	-
Highest CH	-	-	-	-	4.47	-	9.01	-	13.49	-	18.42	-



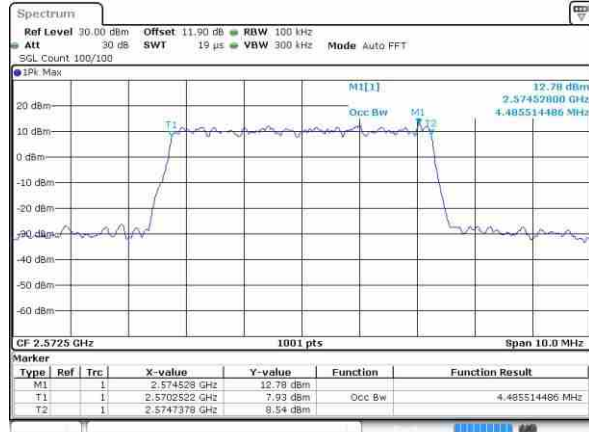
LTE Band 38

Lowest Channel / 5MHz / QPSK



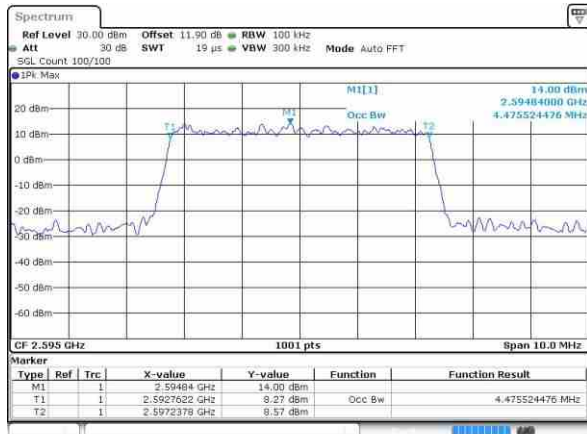
Date: 11 MAR 2019 11:53:31

Lowest Channel / 5MHz / 16QAM



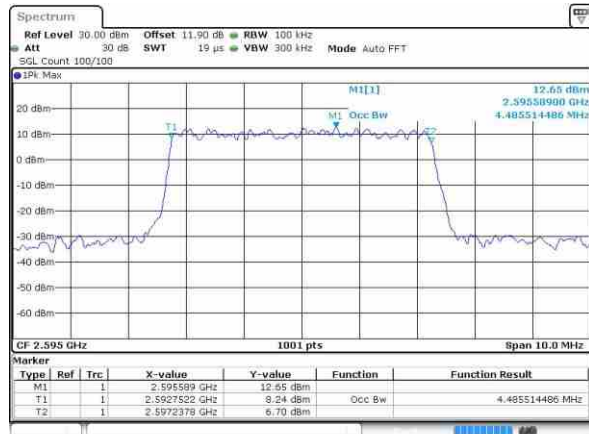
Date: 11 MAR 2019 11:53:43

Middle Channel / 5MHz / QPSK



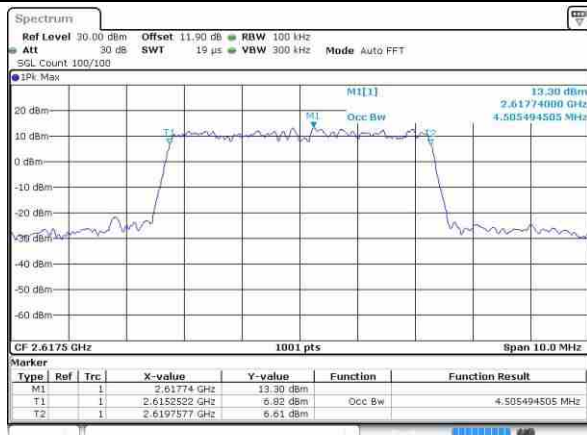
Date: 11 MAR 2019 11:54:20

Middle Channel / 5MHz / 16QAM



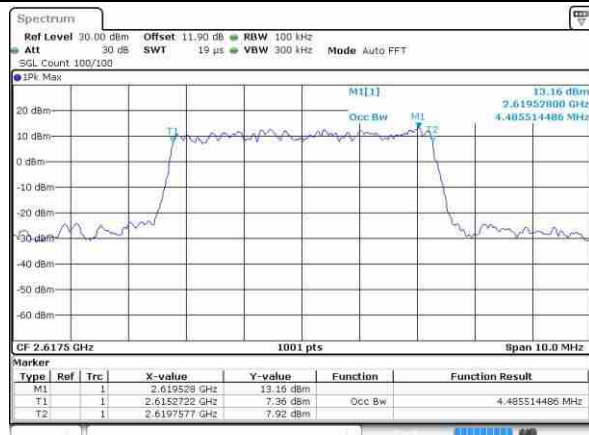
Date: 11 MAR 2019 11:54:32

Highest Channel / 5MHz / QPSK



Date: 11 MAR 2019 11:55:08

Highest Channel / 5MHz / 16QAM

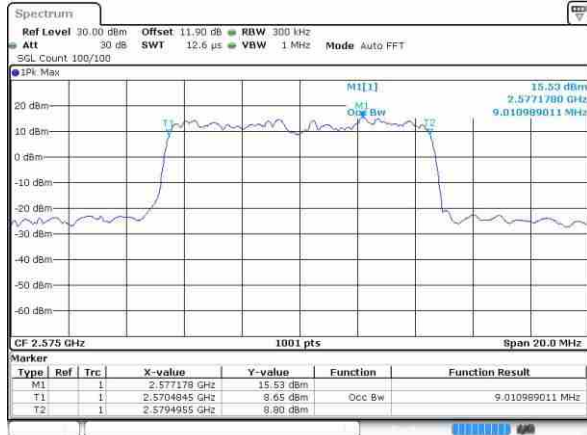


Date: 11 MAR 2019 11:55:21

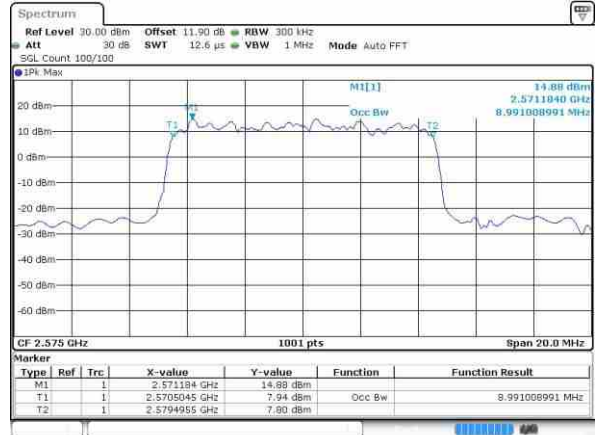


LTE Band 38

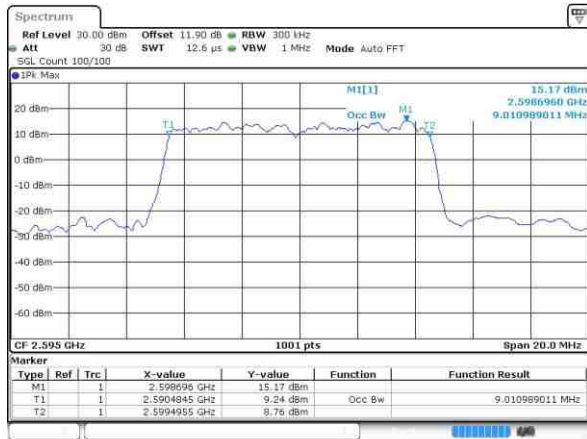
Lowest Channel / 10MHz / QPSK



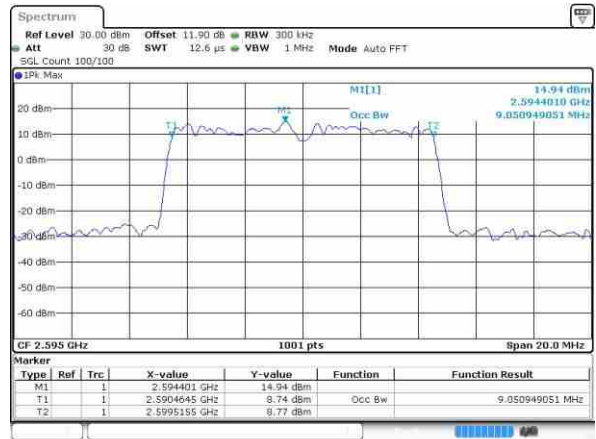
Lowest Channel / 10MHz / 16QAM



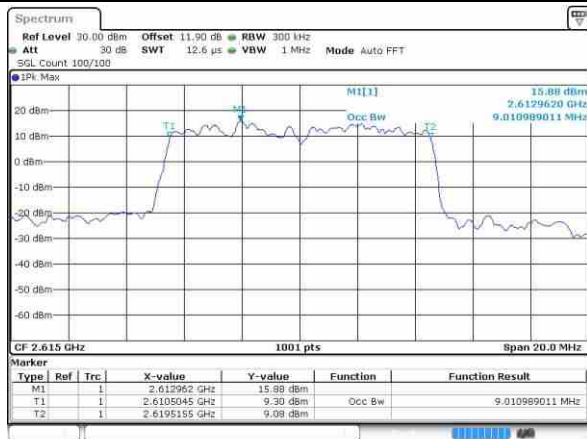
Middle Channel / 10MHz / QPSK



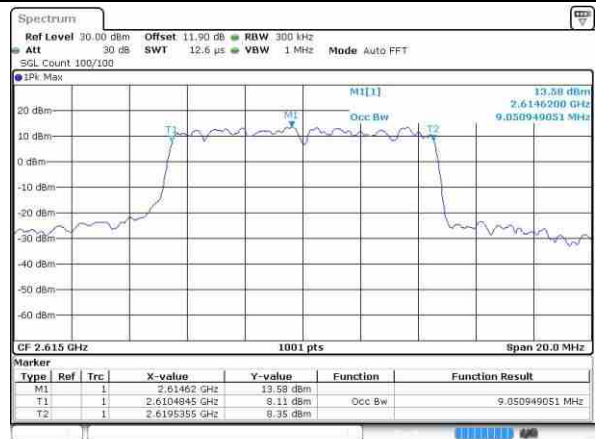
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



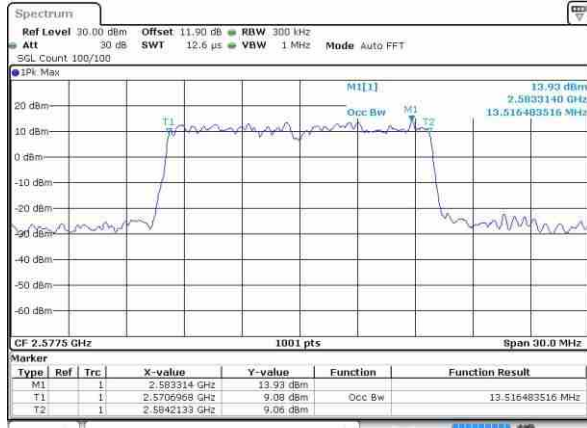
Highest Channel / 10MHz / 16QAM





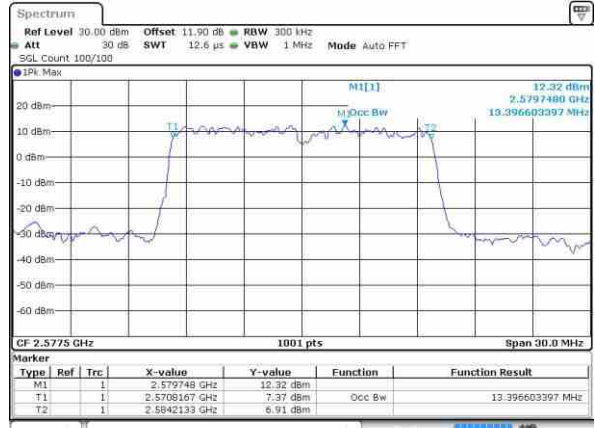
LTE Band 38

Lowest Channel / 15MHz / QPSK



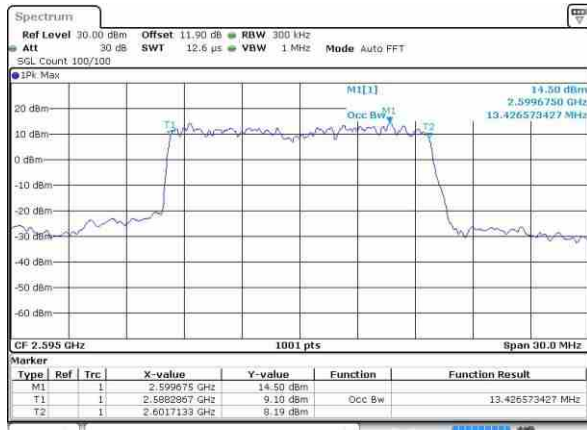
Date: 11 MAR 2019 11:58:26

Lowest Channel / 15MHz / 16QAM



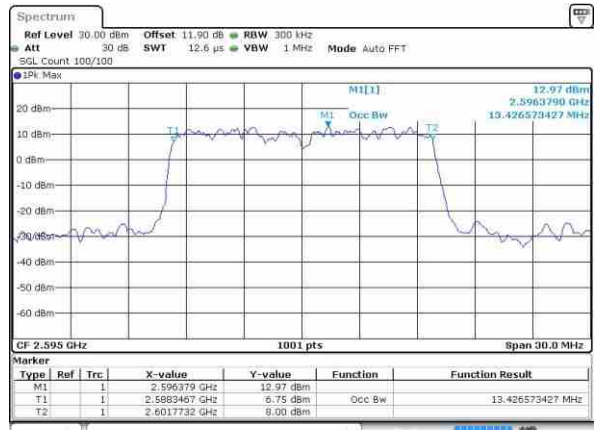
Date: 11 MAR 2019 11:58:39

Middle Channel / 15MHz / QPSK



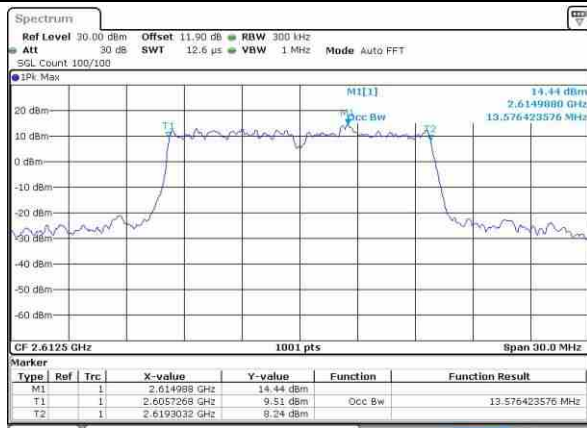
Date: 11 MAR 2019 11:58:16

Middle Channel / 15MHz / 16QAM



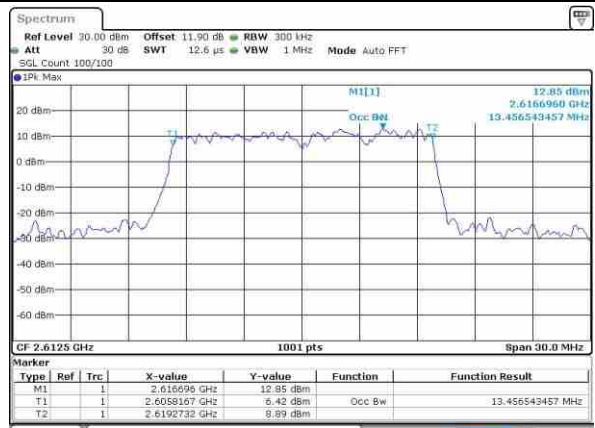
Date: 11 MAR 2019 11:58:28

Highest Channel / 15MHz / QPSK



Date: 11 MAR 2019 12:00:04

Highest Channel / 15MHz / 16QAM

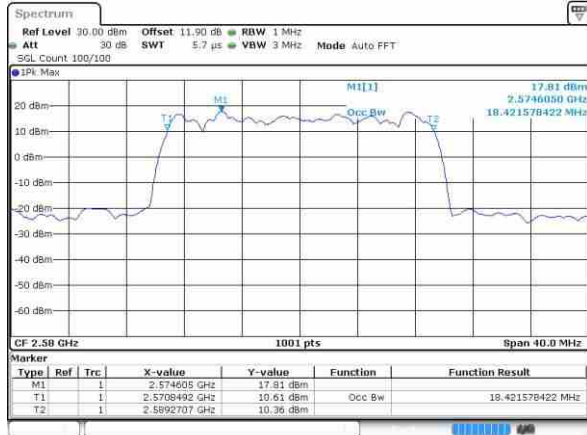


Date: 11 MAR 2019 12:00:17



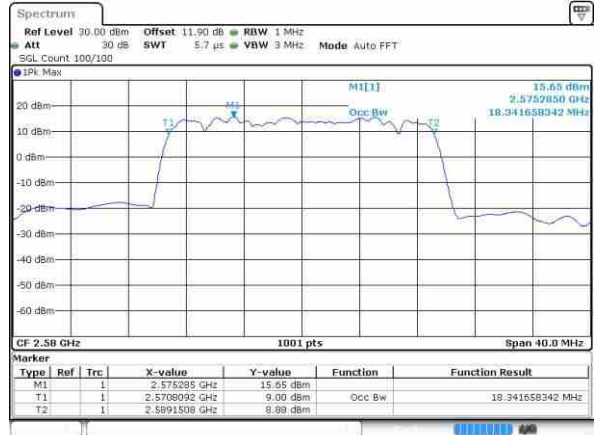
LTE Band 38

Lowest Channel / 20MHz / QPSK



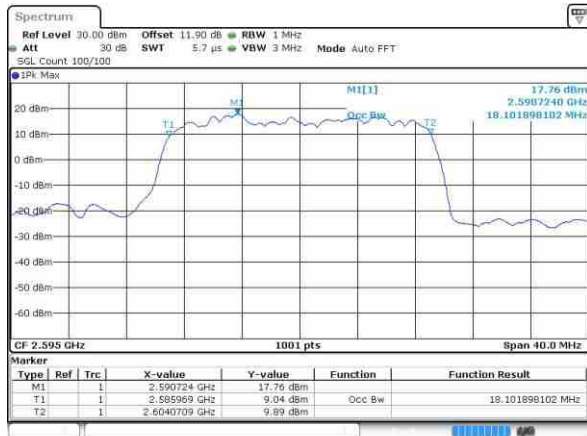
Date: 11 MAR 2019 12:00:55

Lowest Channel / 20MHz / 16QAM



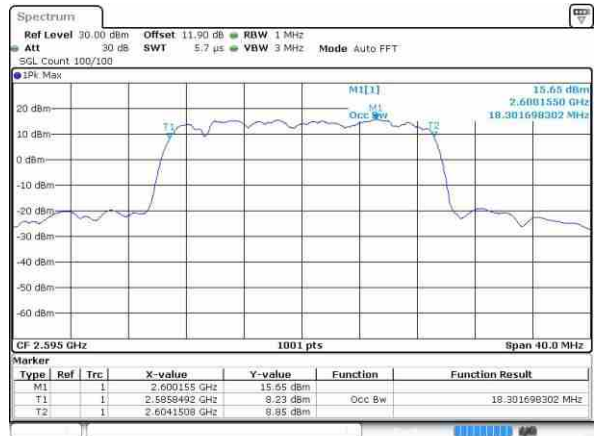
Date: 11 MAR 2019 12:01:08

Middle Channel / 20MHz / QPSK



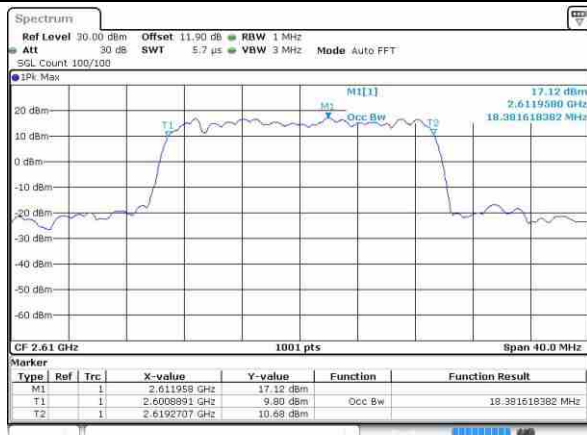
Date: 11 MAR 2019 12:01:45

Middle Channel / 20MHz / 16QAM



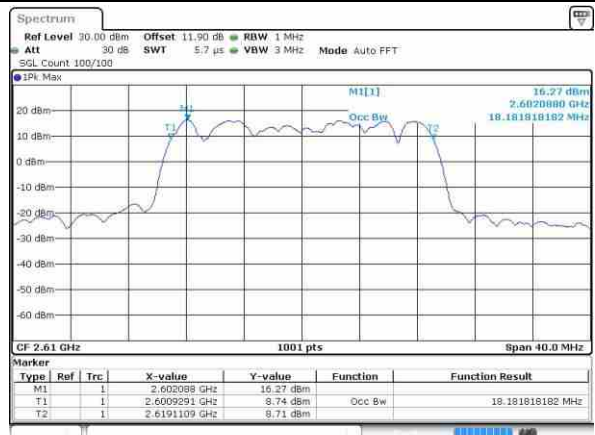
Date: 11 MAR 2019 12:01:57

Highest Channel / 20MHz / QPSK



Date: 11 MAR 2019 12:02:32

Highest Channel / 20MHz / 16QAM

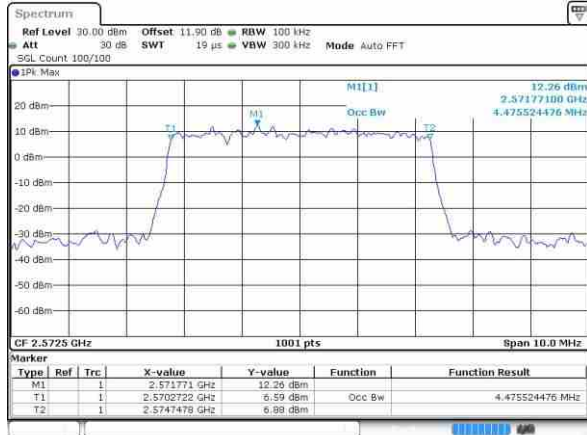


Date: 11 MAR 2019 12:02:45

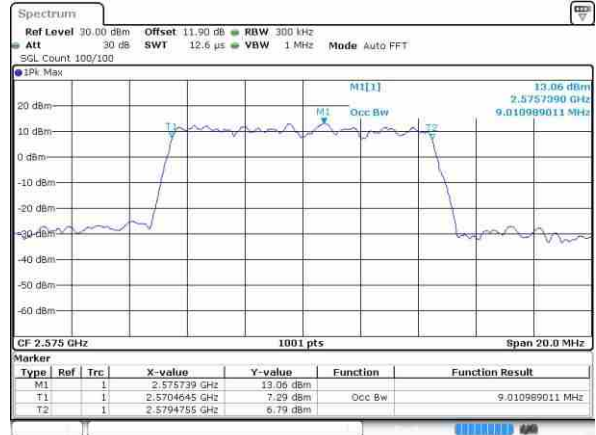


LTE Band 38

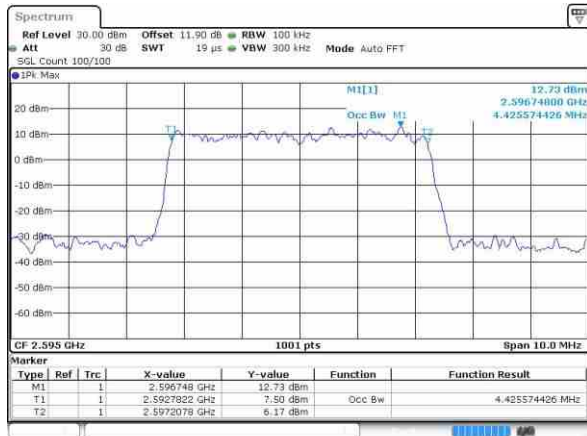
Lowest Channel / 5MHz / 64QAM



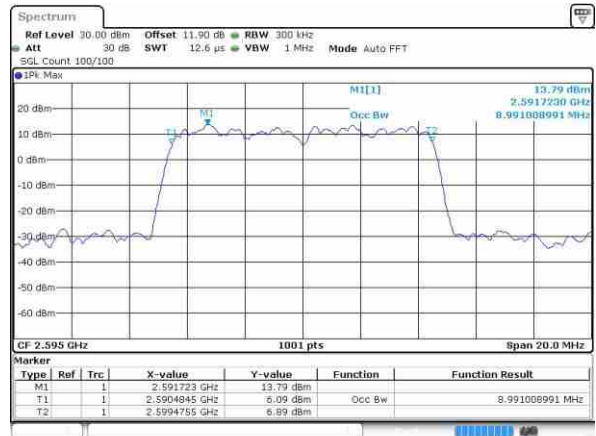
Lowest Channel / 10MHz / 64QAM



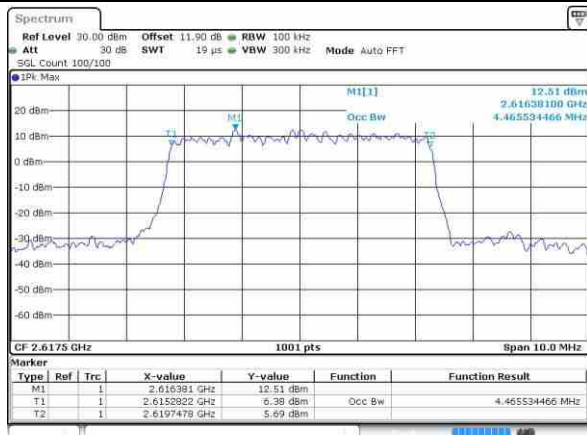
Middle Channel / 5MHz / 64QAM



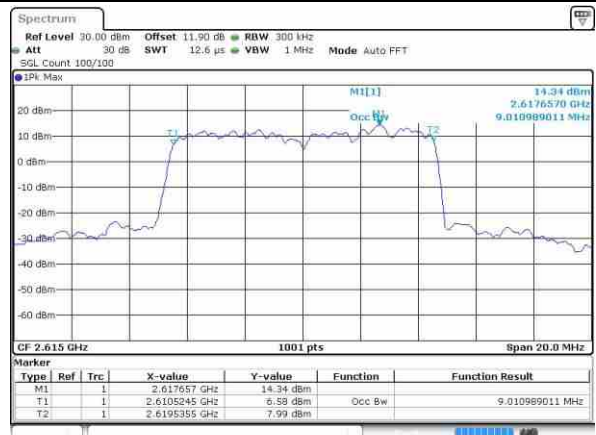
Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM



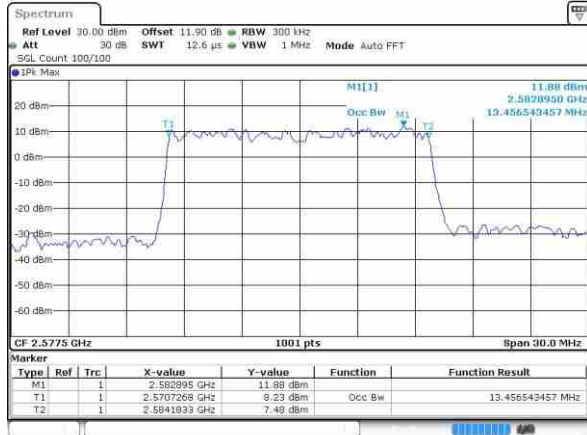
Highest Channel / 10MHz / 64QAM



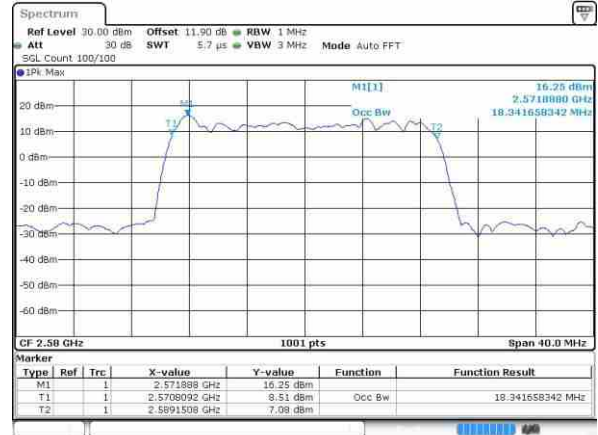


LTE Band 38

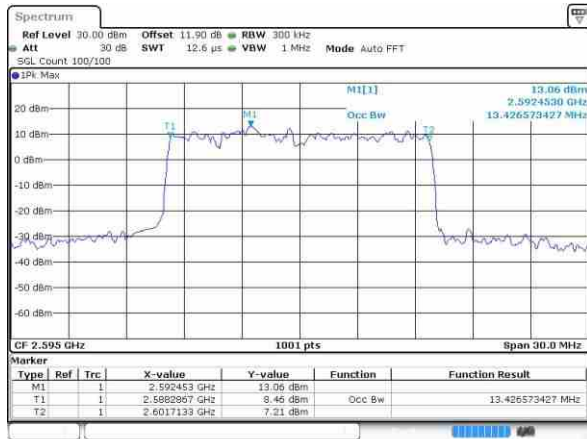
Lowest Channel / 15MHz / 64QAM



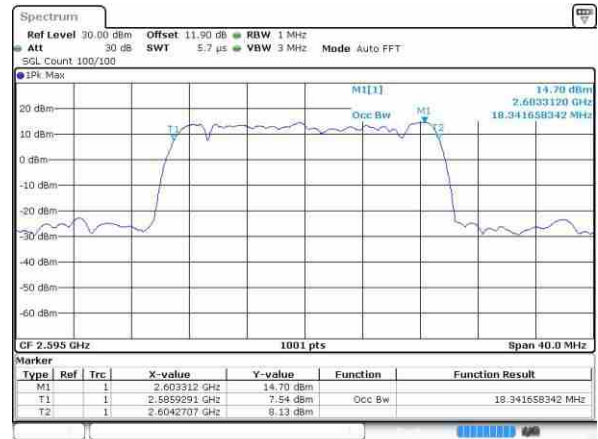
Lowest Channel / 20MHz / 64QAM



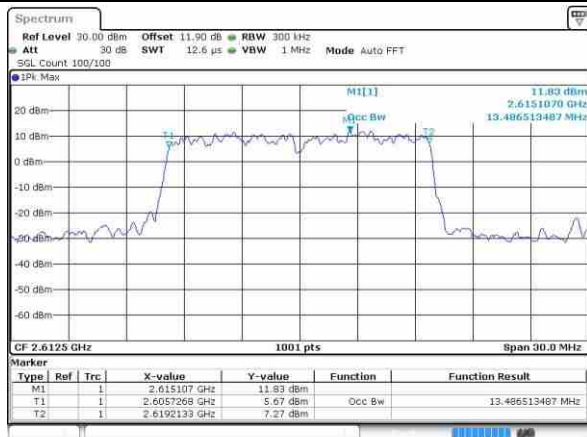
Middle Channel / 15MHz / 64QAM



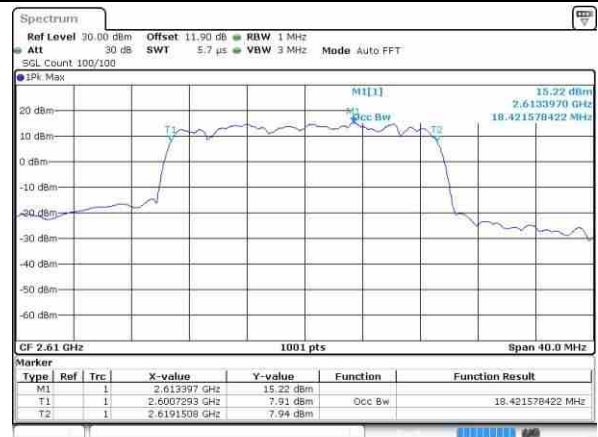
Middle Channel / 20MHz / 64QAM

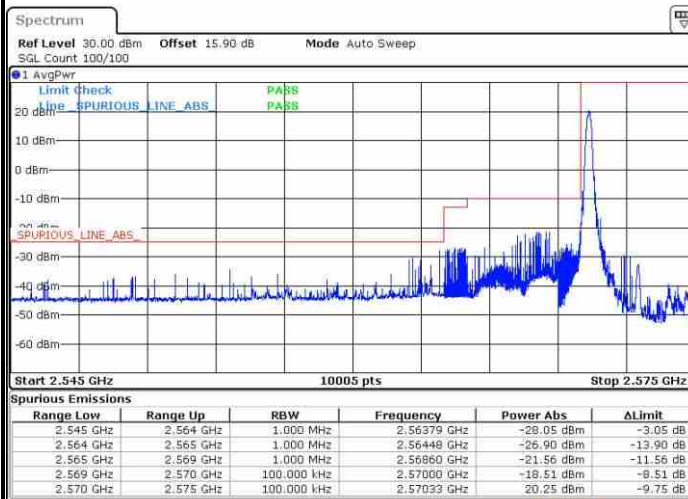
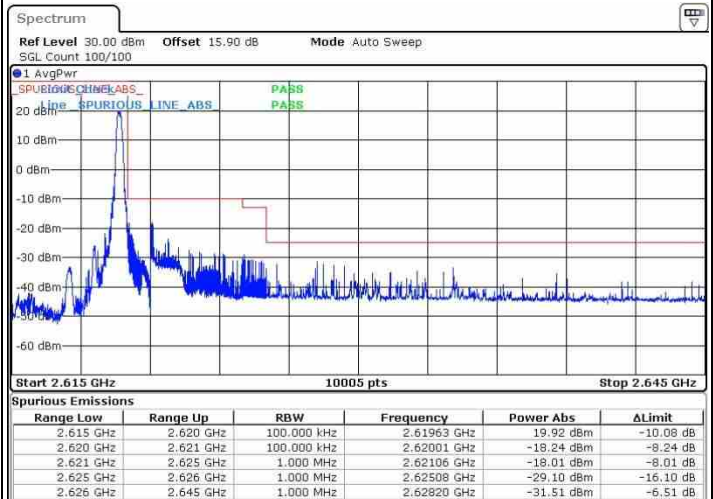
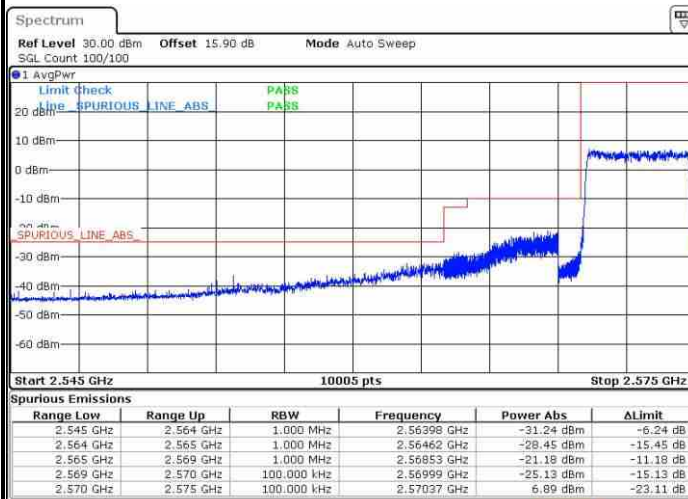
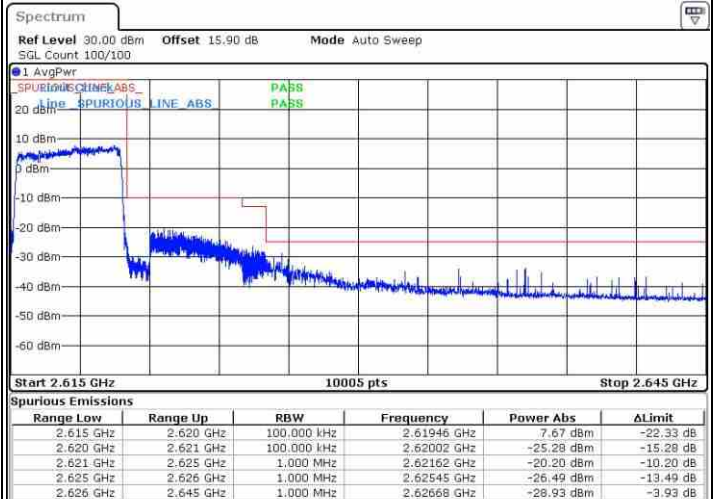


Highest Channel / 15MHz / 64QAM



Highest Channel / 20MHz / 64QAM

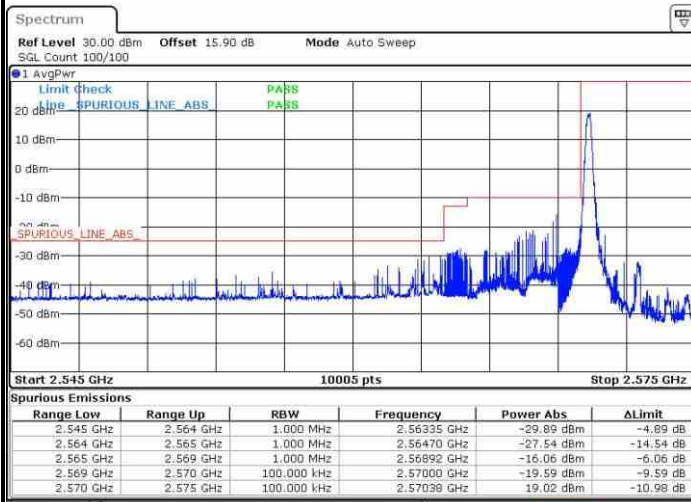


**Conducted Band Edge****LTE Band 38 / 5MHz / QPSK****Lowest Band Edge / 1 RB****Highest Band Edge / 1 RB****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**

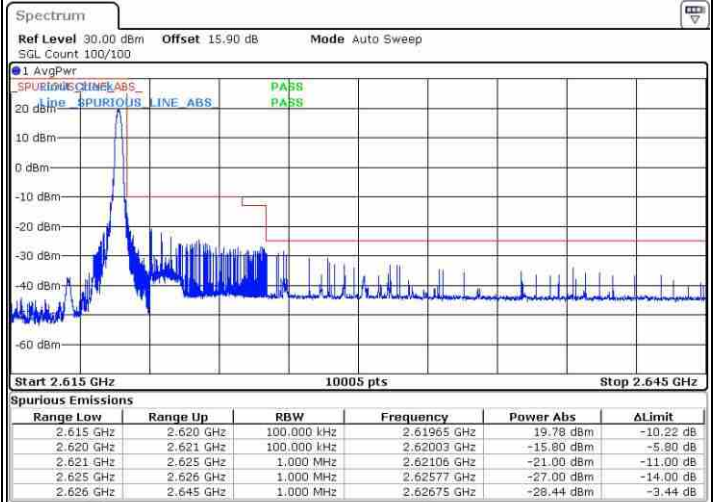


LTE Band 38 / 5MHz / 16QAM

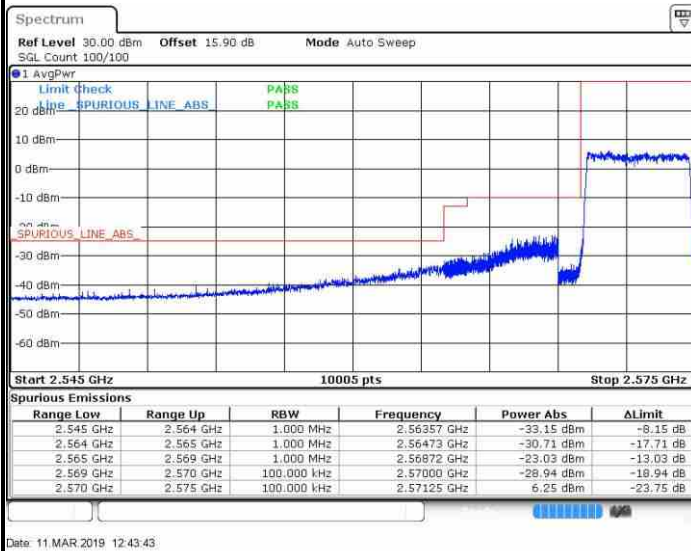
Lowest Band Edge / 1RB



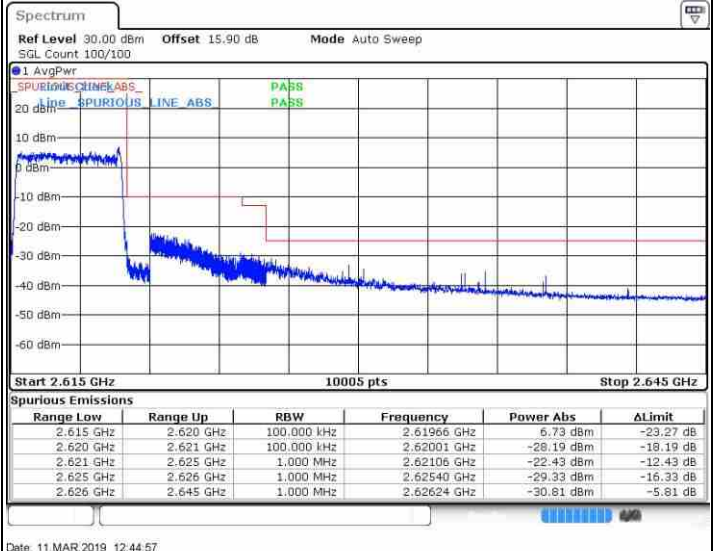
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



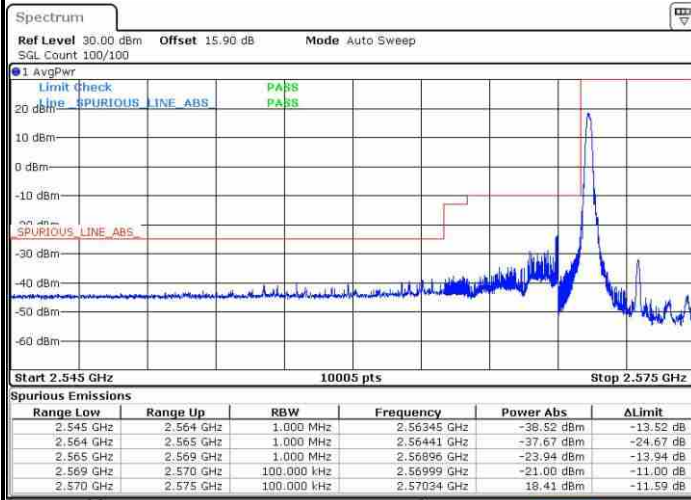
Highest Band Edge / Full RB



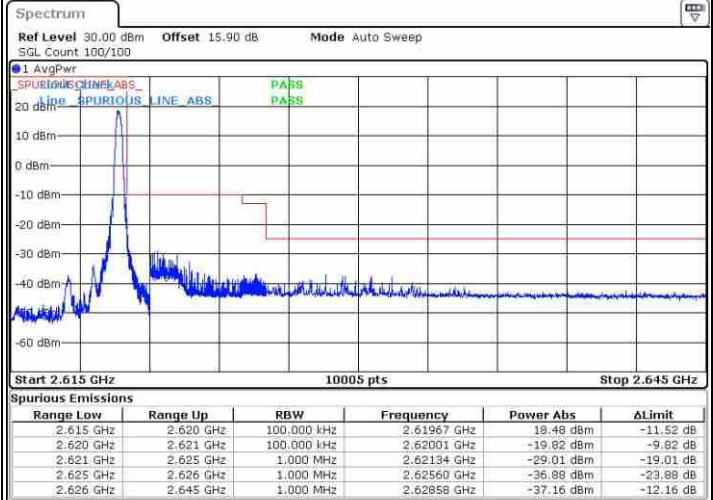


LTE Band 38 / 5MHz / 64QAM

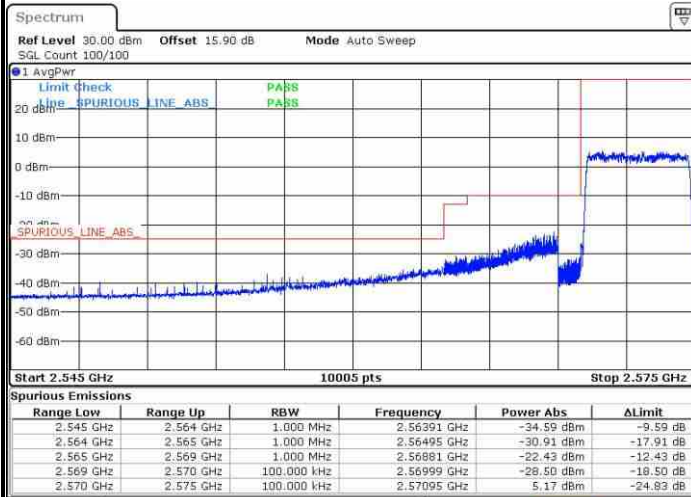
Lowest Band Edge / 1RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

