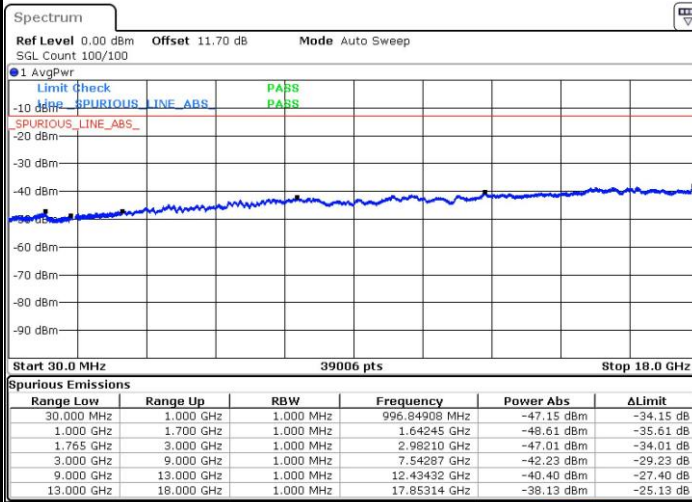




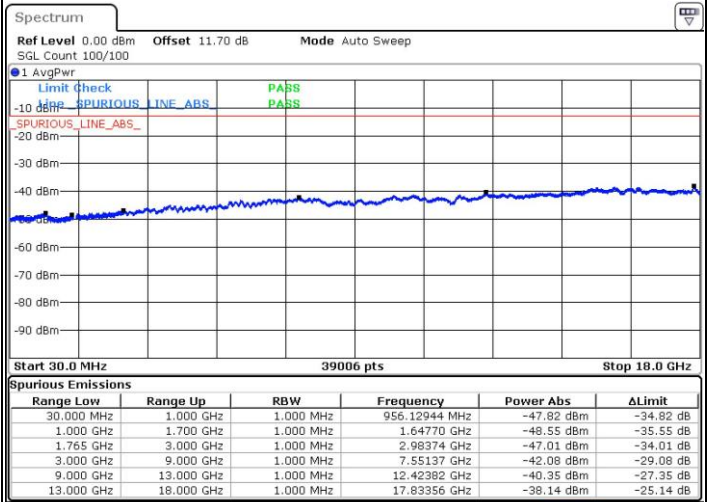
LTE Band 4 / 15MHz

Lowest Channel / QPSK



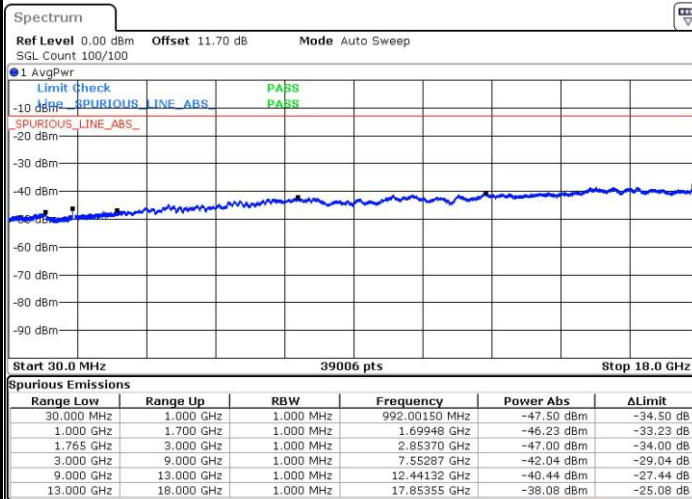
Date: 16 MAY 2019 04:56:19

Lowest Channel / 16QAM



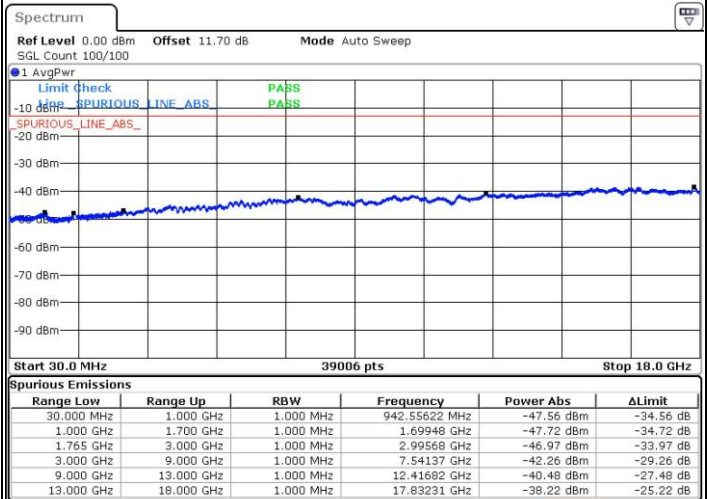
Date: 16 MAY 2019 04:57:05

Middle Channel / QPSK



Date: 16 MAY 2019 04:58:38

Middle Channel / 16QAM

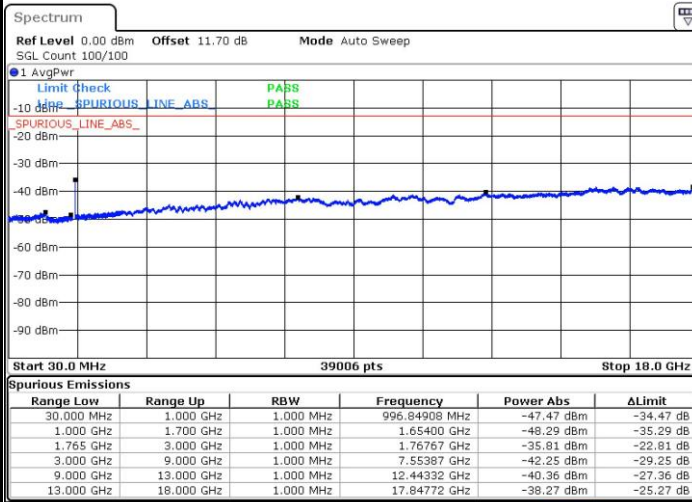


Date: 16 MAY 2019 04:59:24



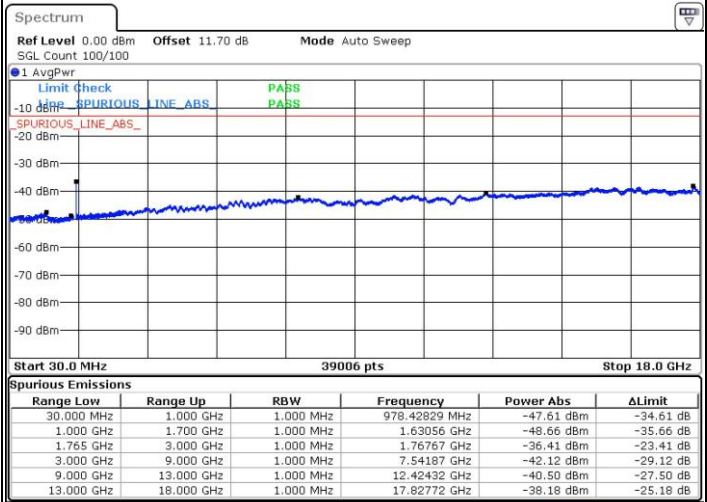
LTE Band 4 / 15MHz

Highest Channel / QPSK



Date: 16 MAY 2019 05:05:05

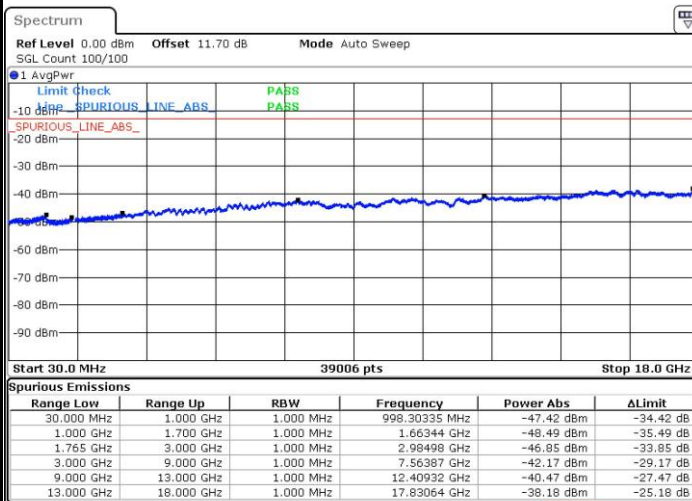
Highest Channel / 16QAM



Date: 16 MAY 2019 05:05:51

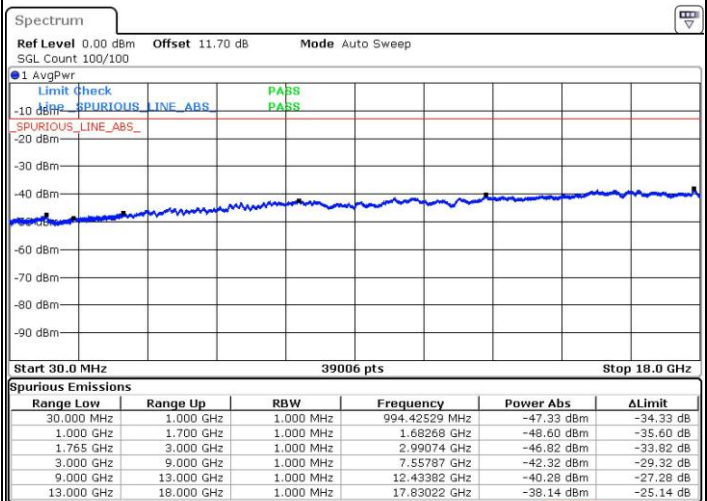
LTE Band 4 / 20MHz

Lowest Channel / QPSK



Date: 16 MAY 2019 05:11:33

Lowest Channel / 16QAM

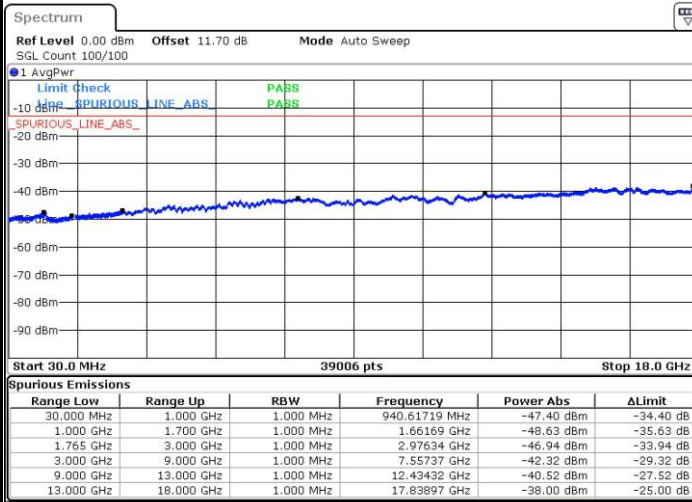


Date: 16 MAY 2019 05:12:20



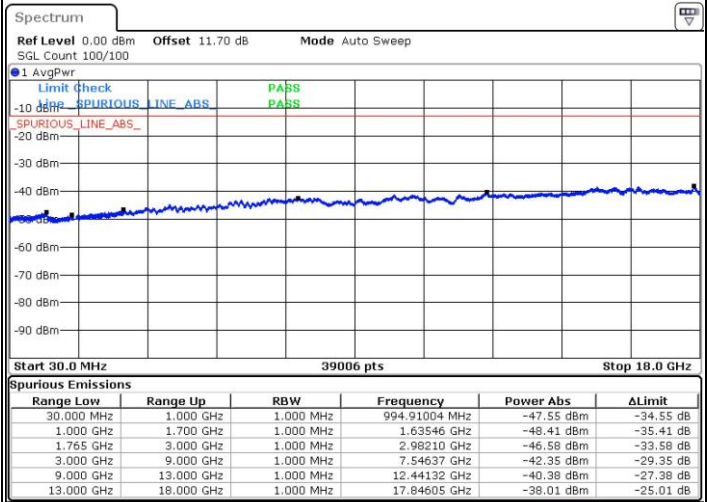
LTE Band 4 / 20MHz

Middle Channel / QPSK



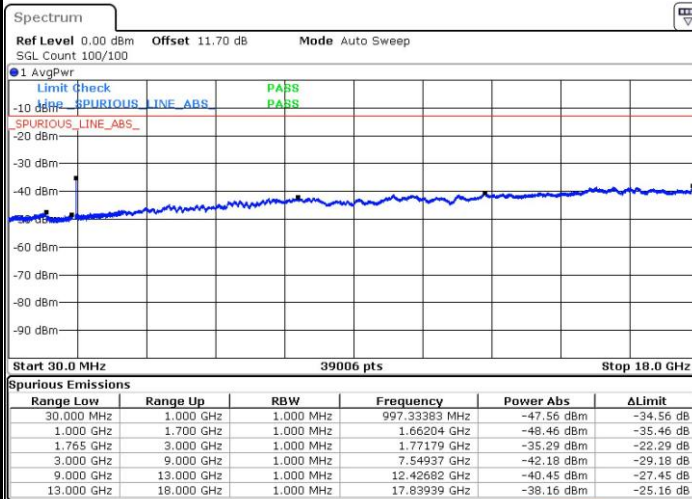
Date: 16 MAY 2019 05:13:53

Middle Channel / 16QAM



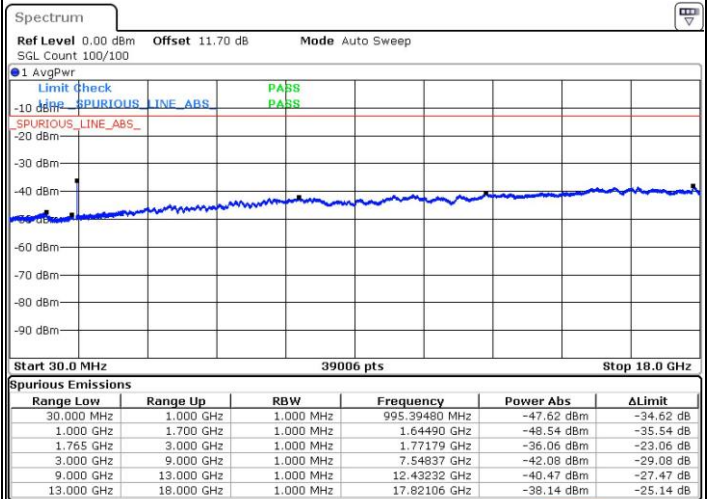
Date: 16 MAY 2019 05:14:39

Highest Channel / QPSK



Date: 16 MAY 2019 05:20:19

Highest Channel / 16QAM



Date: 16 MAY 2019 05:21:06

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	0.0048	PASS
40	Normal Voltage	0.0002	
30	Normal Voltage	0.0003	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0003	
0	Normal Voltage	0.0005	
-10	Normal Voltage	0.0002	
-20	Normal Voltage	0.0006	
-30	Normal Voltage	0.0004	
20	Maximum Voltage	0.0006	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0002	

Note:

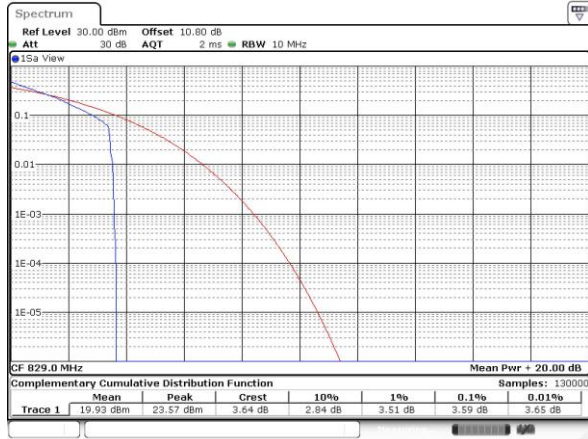
1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.35 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



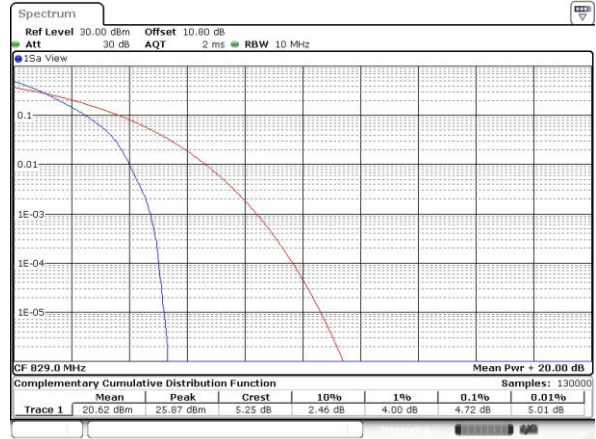
LTE Band 5

Peak-to-Average Ratio

Mode	LTE Band 5 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.59	4.72	5.3	6.03	PASS
Middle CH	3.59	4.72	4.99	5.94	
Highest CH	3.51	4.49	5.1	5.8	

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


Date: 16 MAY 2019 06:52:13

Lowest Channel / Full RB


Date: 16 MAY 2019 06:52:29

Middle Channel / 1RB


Date: 16 MAY 2019 06:52:39

Middle Channel / Full RB

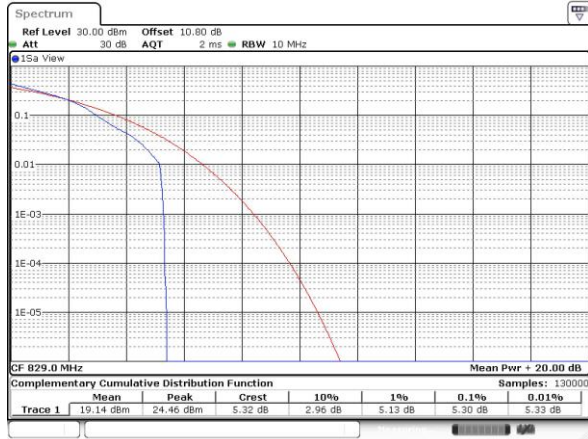

Date: 16 MAY 2019 06:52:50

Highest Channel / 1RB

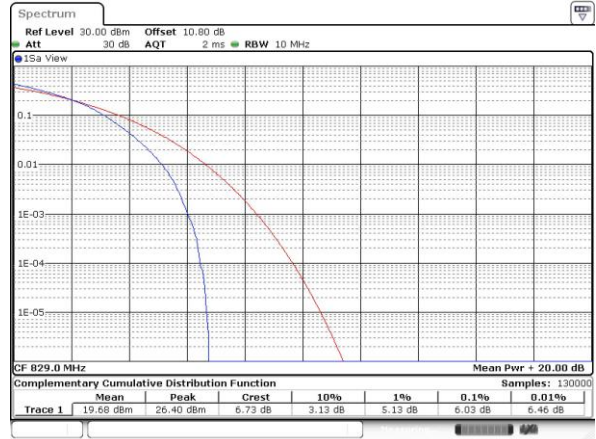

Date: 16 MAY 2019 06:53:00

Highest Channel / Full RB


Date: 16 MAY 2019 06:53:12

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


Date: 16 MAY 2019 06:51:04

Lowest Channel / Full RB


Date: 16 MAY 2019 06:51:16

Middle Channel / 1RB


Date: 16 MAY 2019 06:51:27

Middle Channel / Full RB


Date: 16 MAY 2019 06:51:37

Highest Channel / 1RB


Date: 16 MAY 2019 06:51:48

Highest Channel / Full RB


Date: 16 MAY 2019 06:52:00

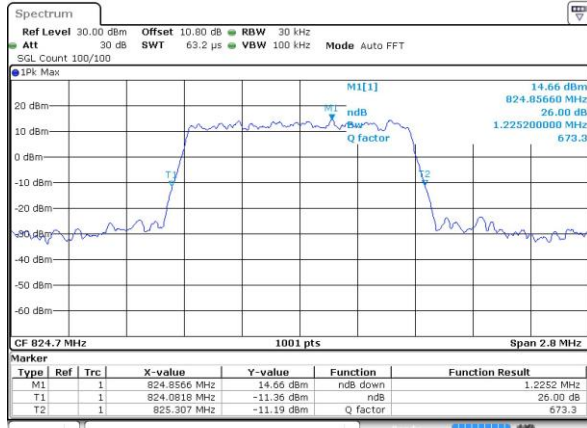
**26dB Bandwidth**

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	1.23	1.20	3.00	3.03	4.96	4.87	9.75	9.79	-	-	-	-
Middle CH	1.24	1.23	2.99	3.06	4.94	4.99	9.81	9.75	-	-	-	-
Highest CH	1.22	1.23	3.00	3.03	4.87	4.85	9.73	9.79	-	-	-	-



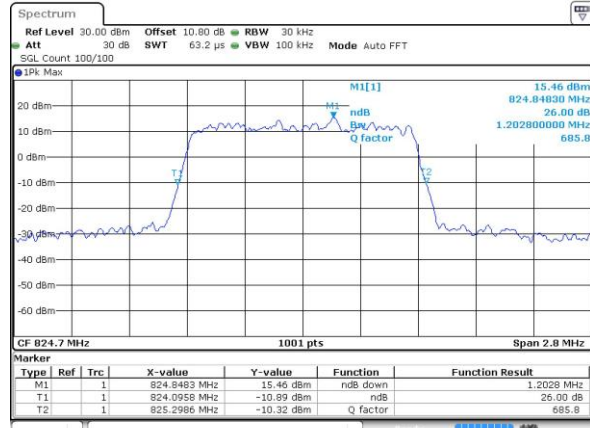
LTE Band 5

Lowest Channel / 1.4MHz / QPSK



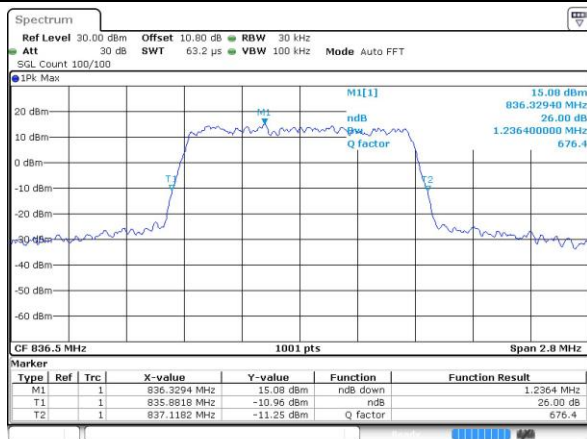
Date: 16 MAY 2019 06:54:18

Lowest Channel / 1.4MHz / 16QAM



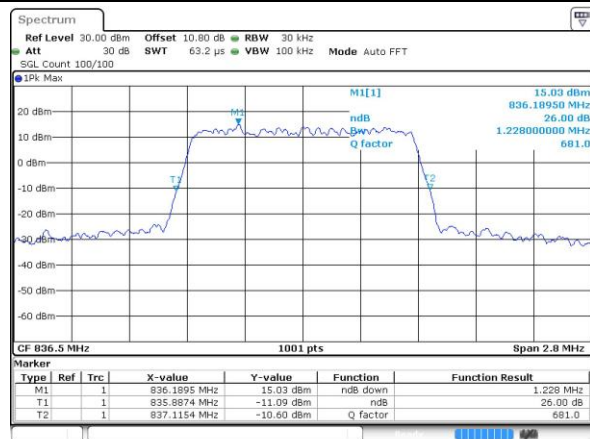
Date: 16 MAY 2019 06:54:05

Middle Channel / 1.4MHz / QPSK



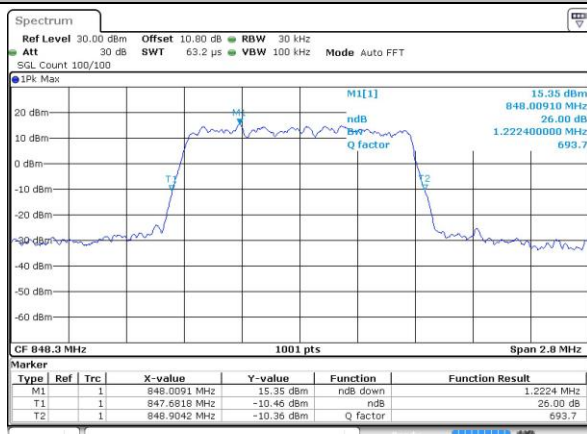
Date: 16 MAY 2019 07:03:10

Middle Channel / 1.4MHz / 16QAM



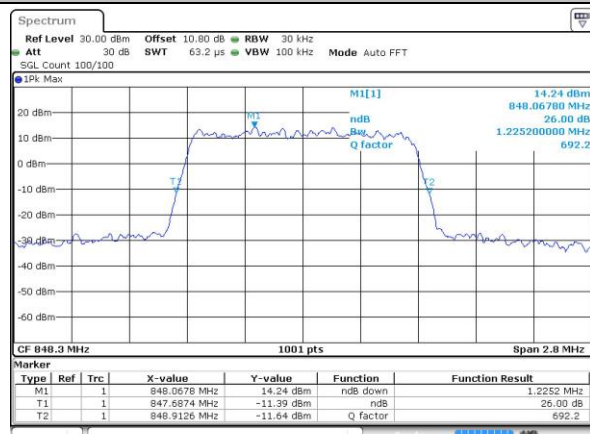
Date: 16 MAY 2019 07:03:22

Highest Channel / 1.4MHz / QPSK



Date: 16 MAY 2019 07:05:30

Highest Channel / 1.4MHz / 16QAM

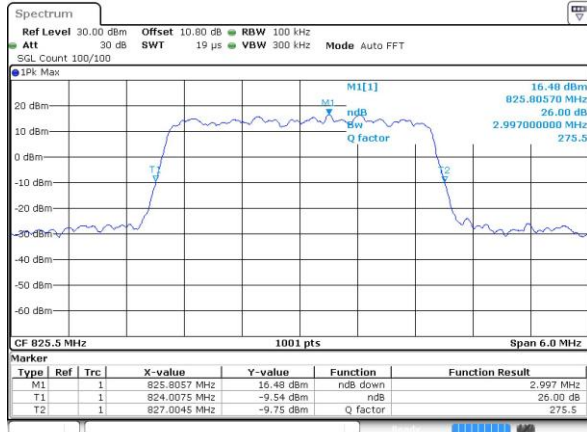


Date: 16 MAY 2019 07:05:42

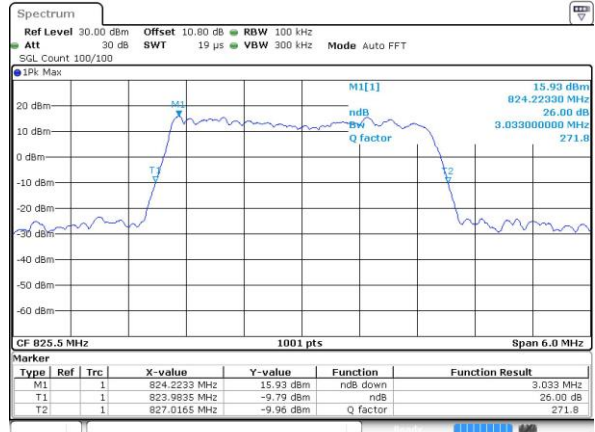


LTE Band 5

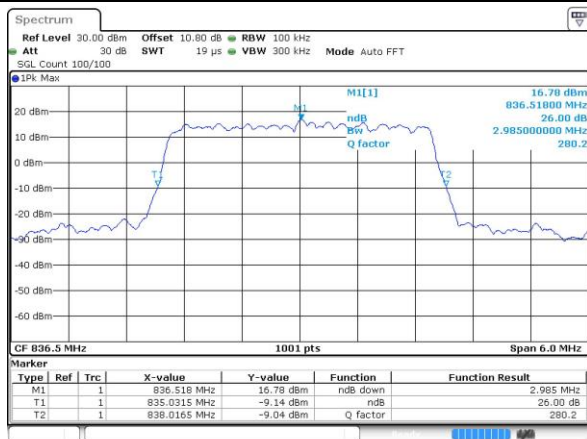
Lowest Channel / 3MHz / QPSK



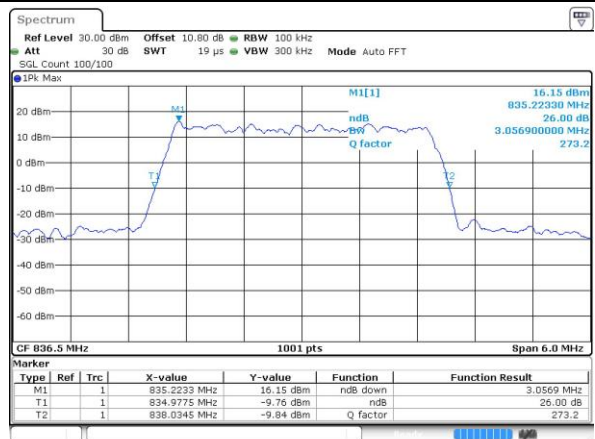
Lowest Channel / 3MHz / 16QAM



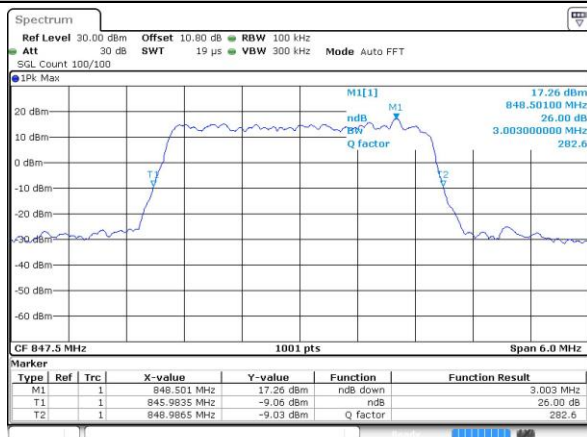
Middle Channel / 3MHz / QPSK



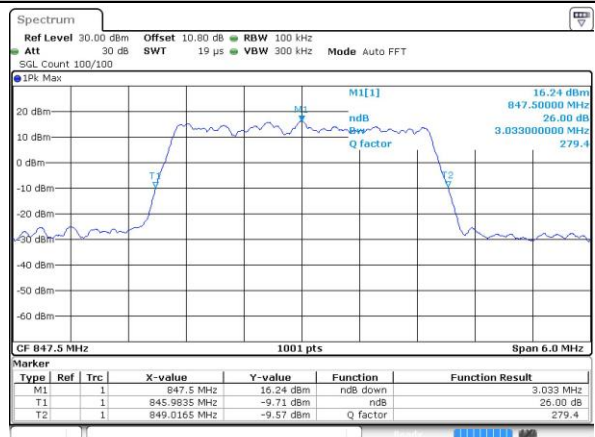
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK



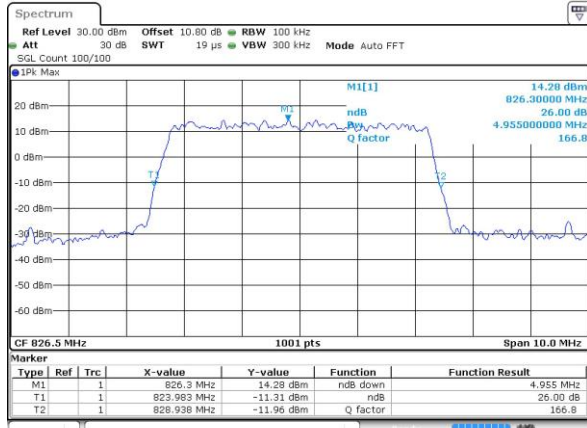
Highest Channel / 3MHz / 16QAM





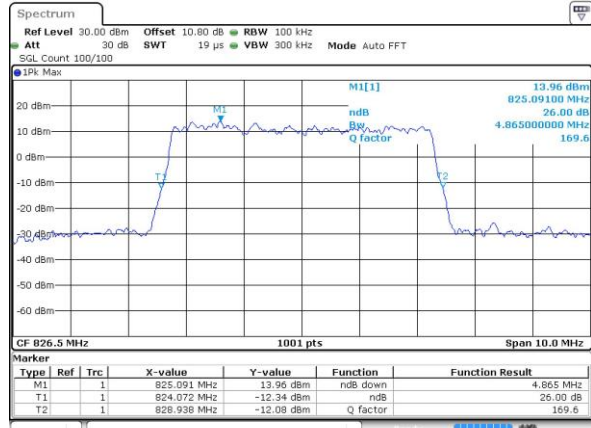
LTE Band 5

Lowest Channel / 5MHz / QPSK



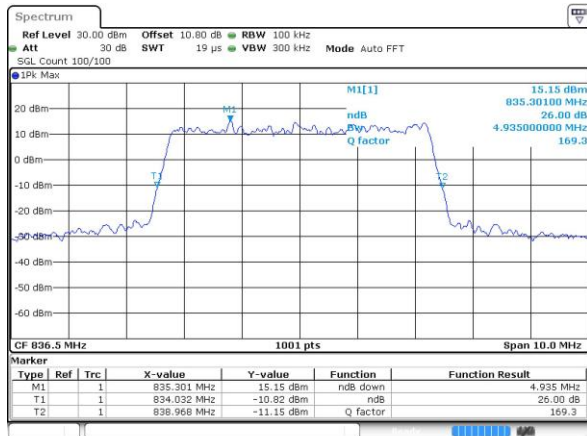
Date: 16 MAY 2019 06:05:22

Lowest Channel / 5MHz / 16QAM



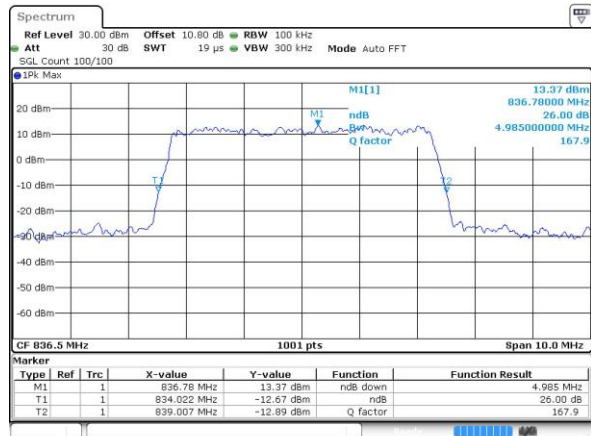
Date: 16 MAY 2019 06:05:34

Middle Channel / 5MHz / QPSK



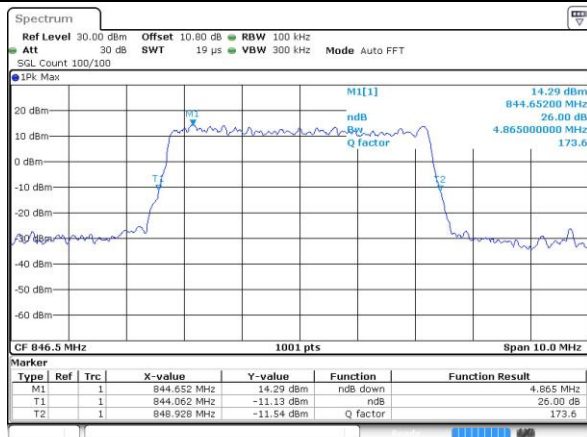
Date: 16 MAY 2019 06:19:24

Middle Channel / 5MHz / 16QAM



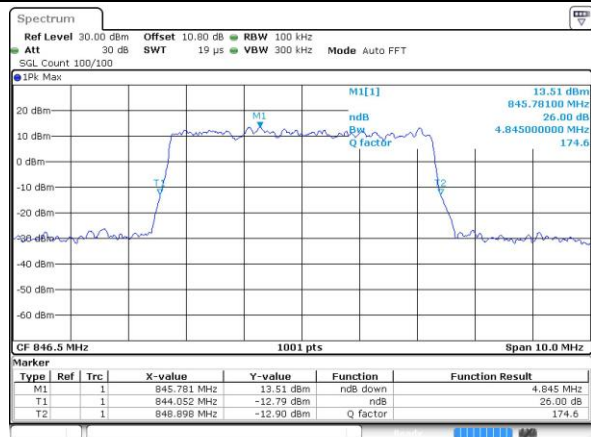
Date: 16 MAY 2019 06:19:36

Highest Channel / 5MHz / QPSK



Date: 16 MAY 2019 06:21:44

Highest Channel / 5MHz / 16QAM

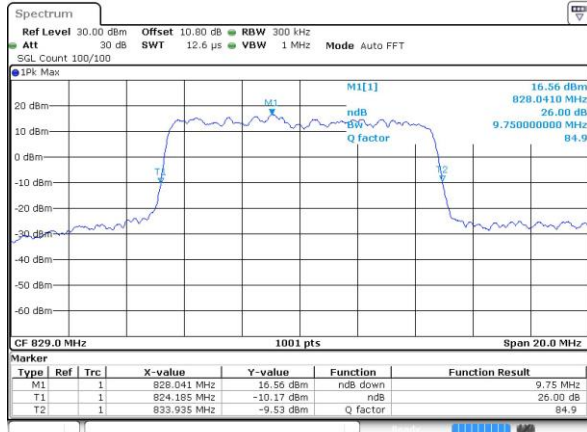


Date: 16 MAY 2019 06:21:56

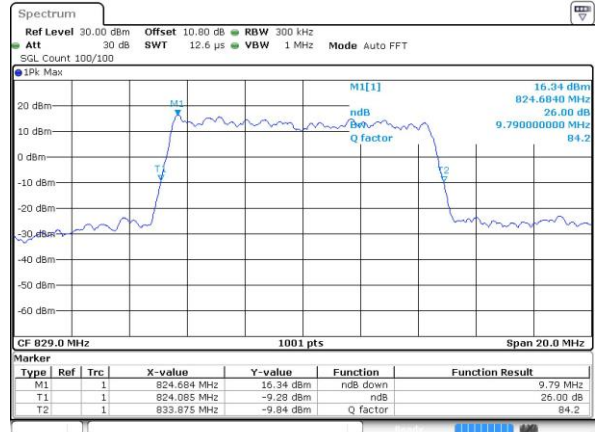


LTE Band 5

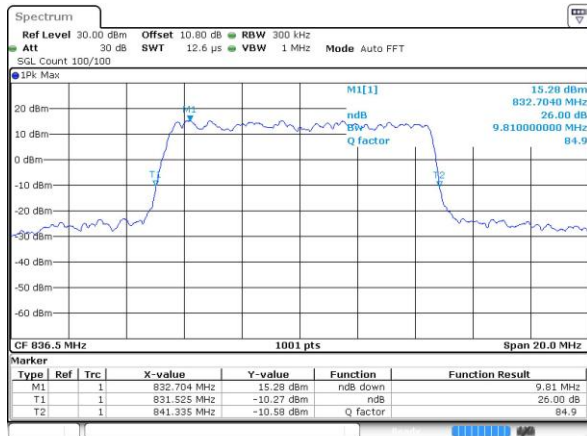
Lowest Channel / 10MHz / QPSK



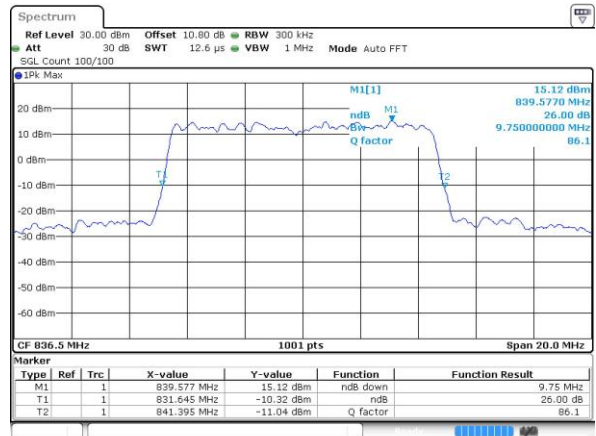
Lowest Channel / 10MHz / 16QAM



Middle Channel / 10MHz / QPSK



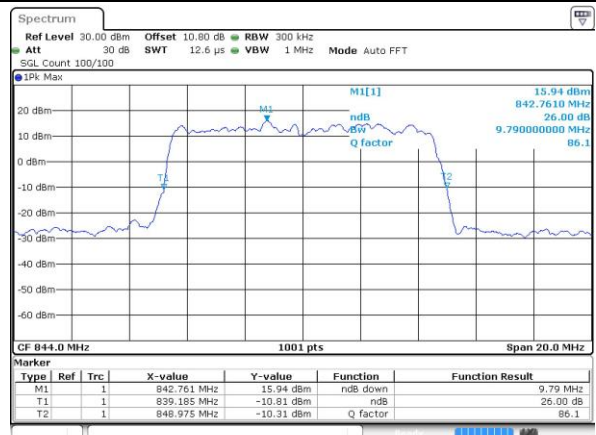
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



Highest Channel / 10MHz / 16QAM



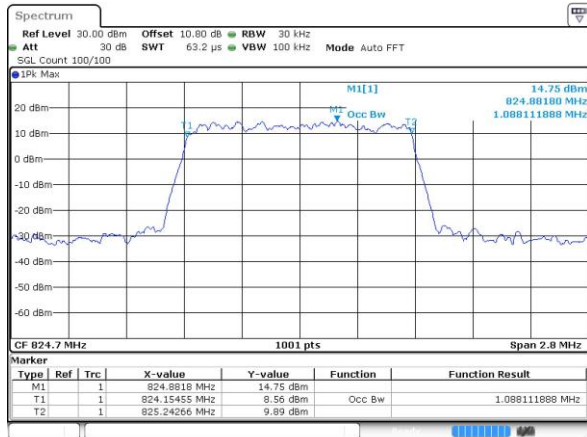
**Occupied Bandwidth**

Mode	LTE Band 5 : 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	1.09	1.09	2.72	2.71	4.49	4.51	8.93	8.99	-	-	-	-
Middle CH	1.1	1.09	2.71	2.72	4.51	4.48	8.99	9.03	-	-	-	-
Highest CH	1.09	1.09	2.72	2.72	4.52	4.5	8.99	8.97	-	-	-	-

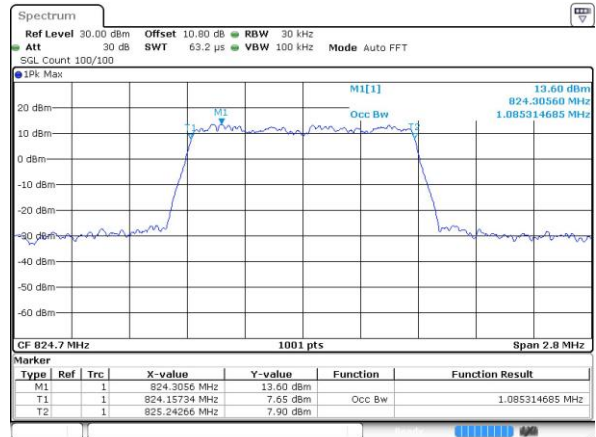


LTE Band 5

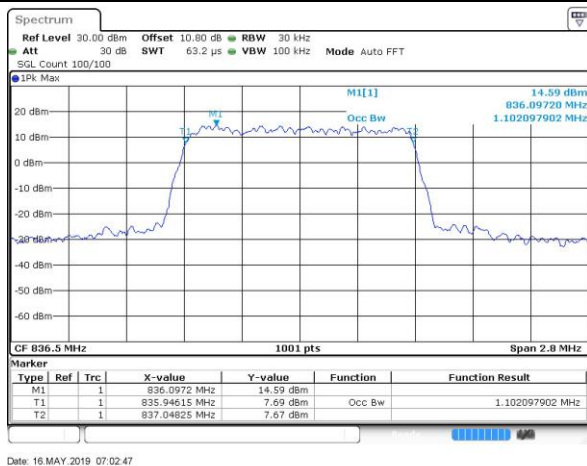
Lowest Channel / 1.4MHz / QPSK



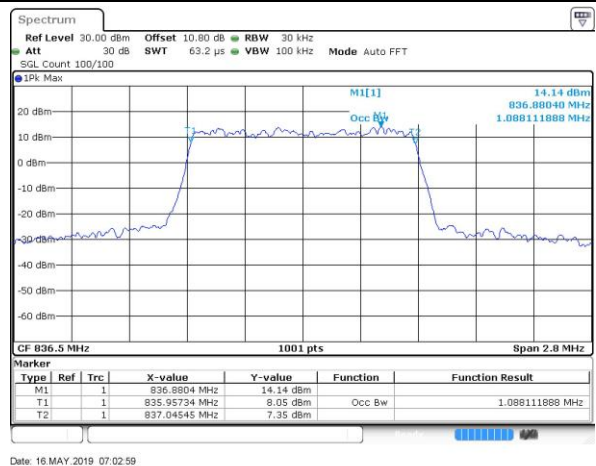
Lowest Channel / 1.4MHz / 16QAM



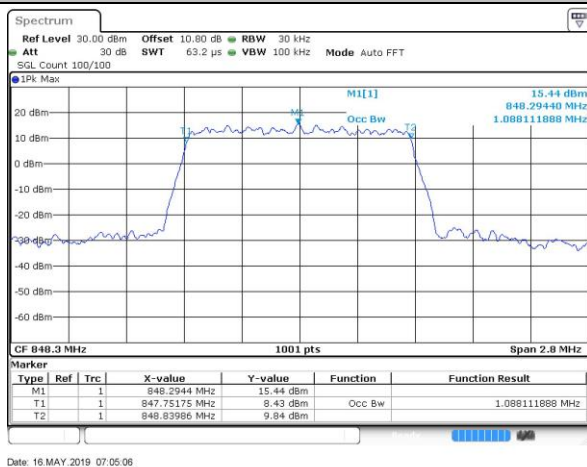
Middle Channel / 1.4MHz / QPSK



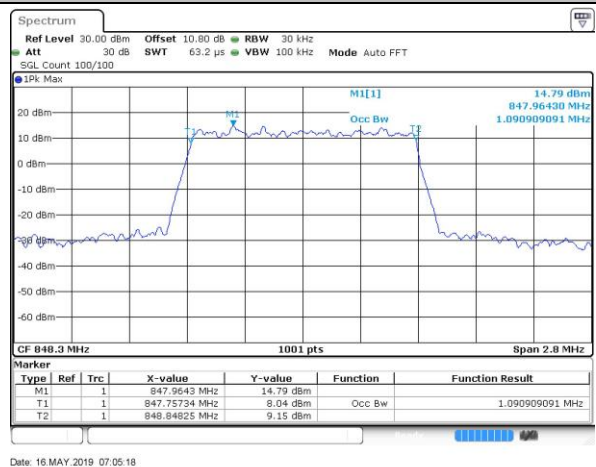
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



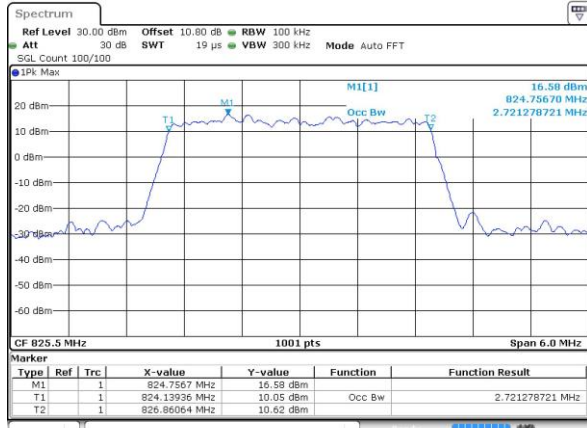
Highest Channel / 1.4MHz / 16QAM





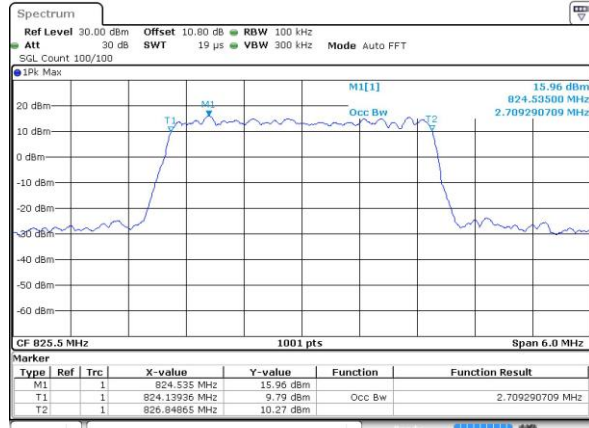
LTE Band 5

Lowest Channel / 3MHz / QPSK



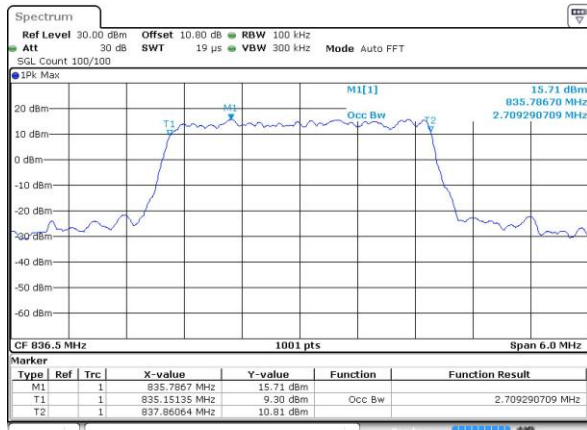
Date: 16 MAY 2019 05:44:21

Lowest Channel / 3MHz / 16QAM



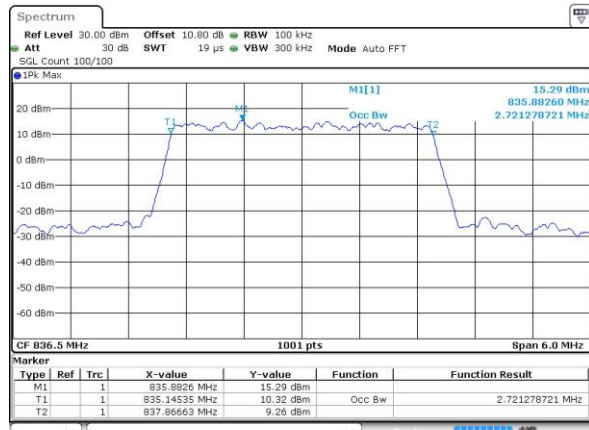
Date: 16 MAY 2019 05:44:34

Middle Channel / 3MHz / QPSK



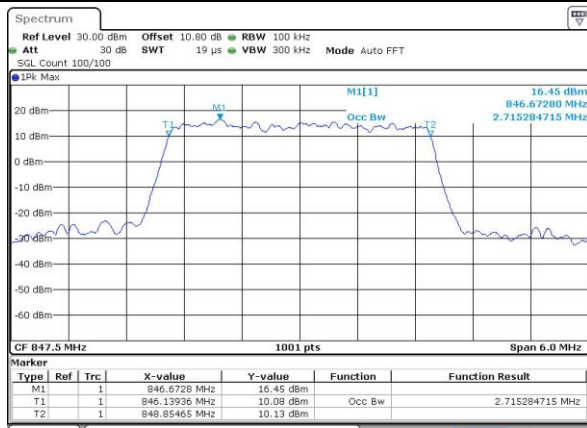
Date: 16 MAY 2019 05:53:31

Middle Channel / 3MHz / 16QAM



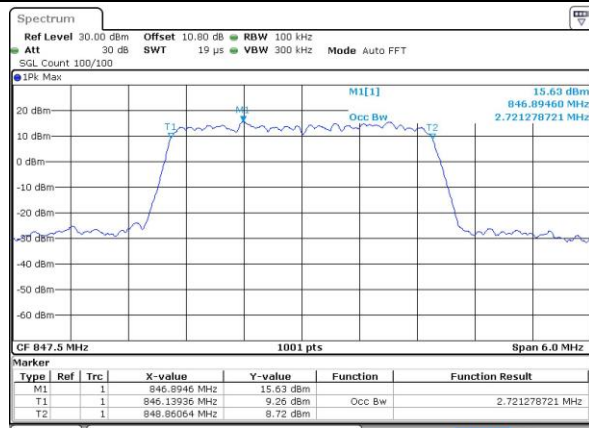
Date: 16 MAY 2019 05:53:42

Highest Channel / 3MHz / QPSK



Date: 16 MAY 2019 05:55:49

Highest Channel / 3MHz / 16QAM

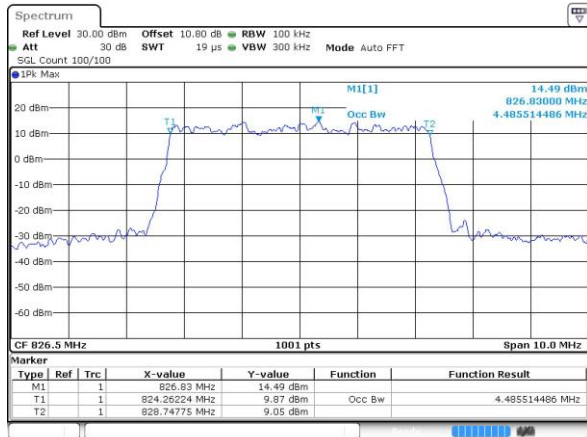


Date: 16 MAY 2019 05:56:02



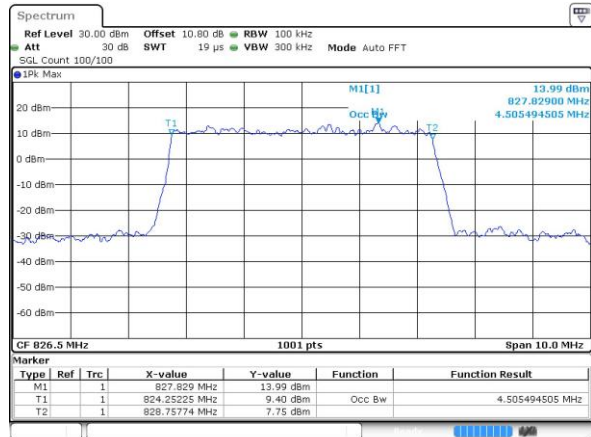
LTE Band 5

Lowest Channel / 5MHz / QPSK



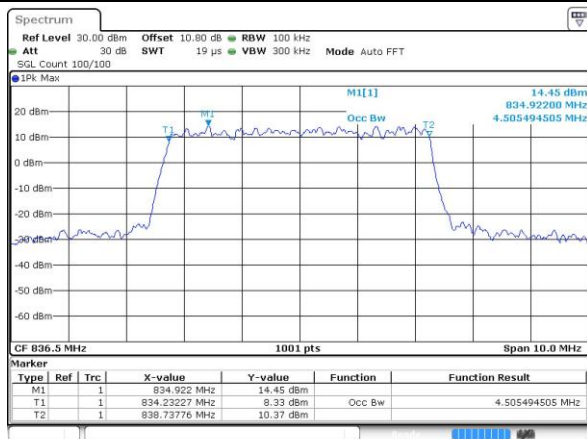
Date: 16 MAY 2019 06:04:57

Lowest Channel / 5MHz / 16QAM



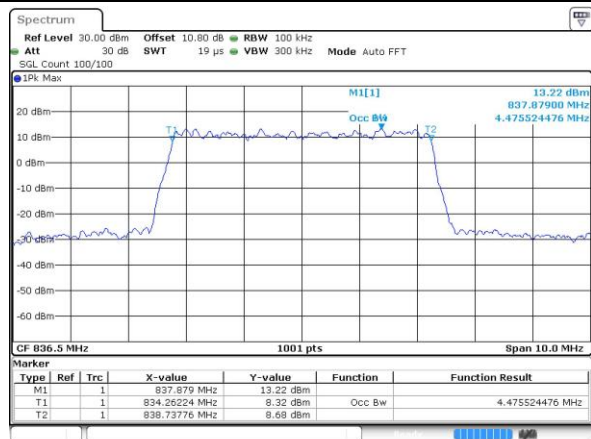
Date: 16 MAY 2019 06:05:09

Middle Channel / 5MHz / QPSK



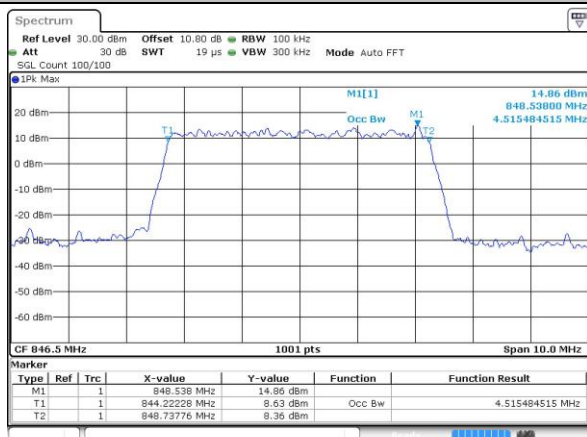
Date: 16 MAY 2019 06:19:00

Middle Channel / 5MHz / 16QAM



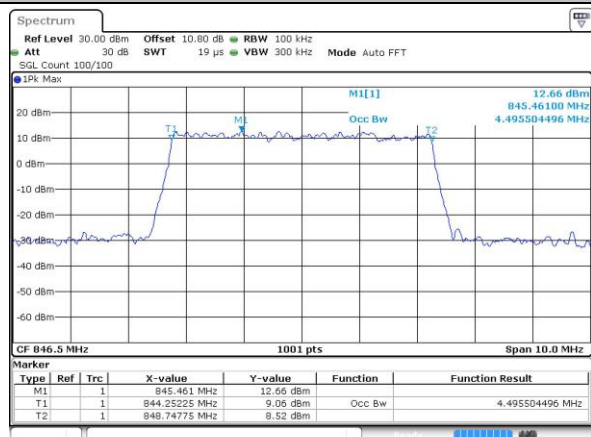
Date: 16 MAY 2019 06:19:12

Highest Channel / 5MHz / QPSK



Date: 16 MAY 2019 06:21:19

Highest Channel / 5MHz / 16QAM

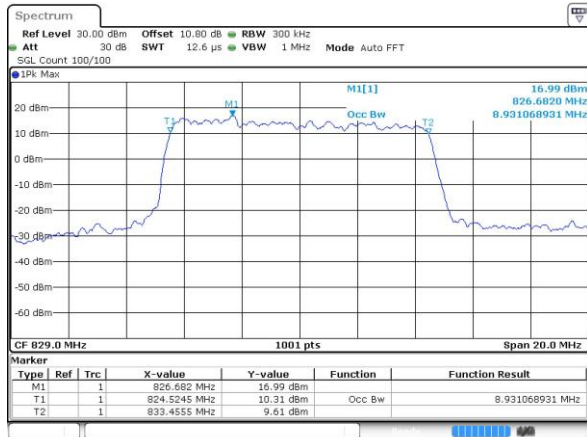


Date: 16 MAY 2019 06:21:31



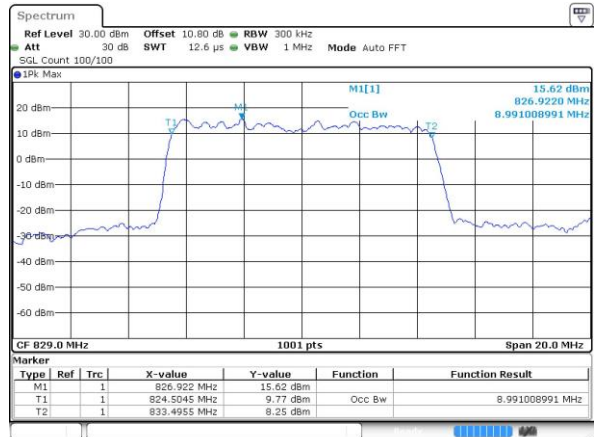
LTE Band 5

Lowest Channel / 10MHz / QPSK



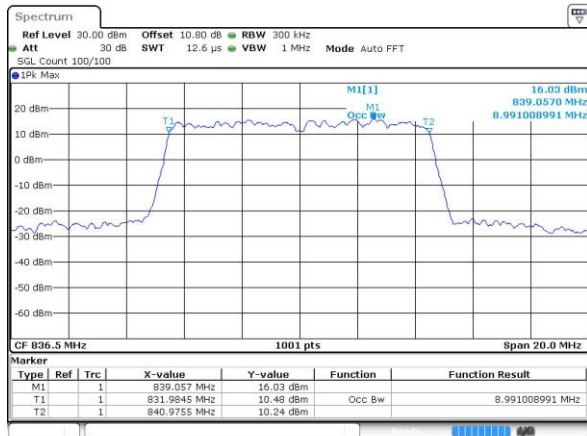
Date: 16 MAY 2019 06:30:27

Lowest Channel / 10MHz / 16QAM



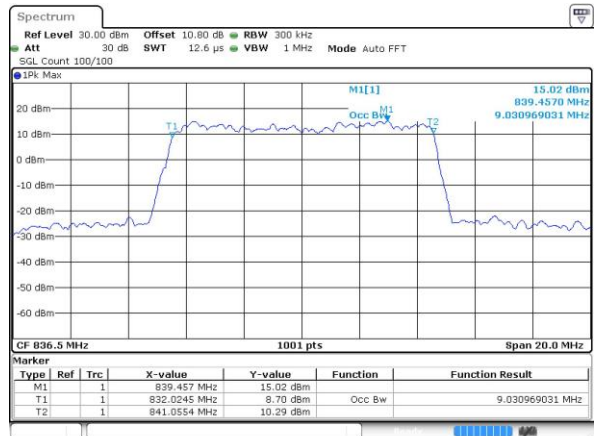
Date: 16 MAY 2019 06:30:39

Middle Channel / 10MHz / QPSK



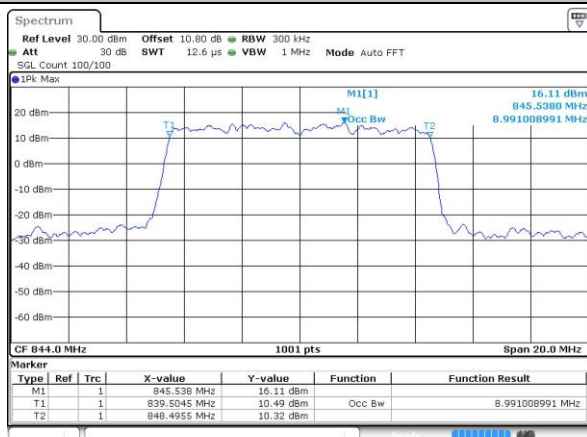
Date: 16 MAY 2019 06:39:33

Middle Channel / 10MHz / 16QAM



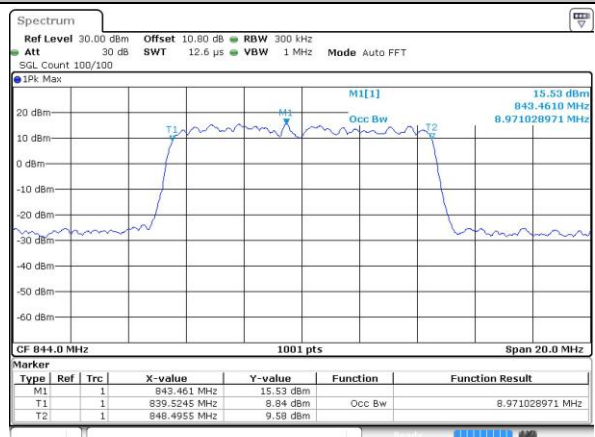
Date: 16 MAY 2019 06:39:45

Highest Channel / 10MHz / QPSK



Date: 16 MAY 2019 06:41:52

Highest Channel / 10MHz / 16QAM



Date: 16 MAY 2019 06:42:04

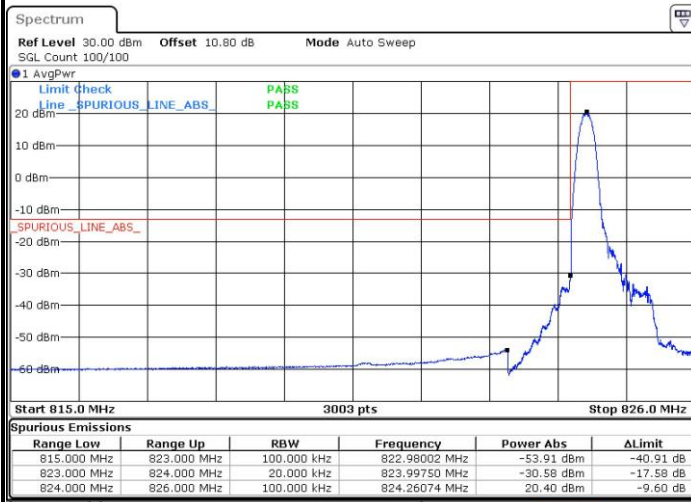


Conducted Band Edge



LTE Band 5 / 1.4MHz / QPSK

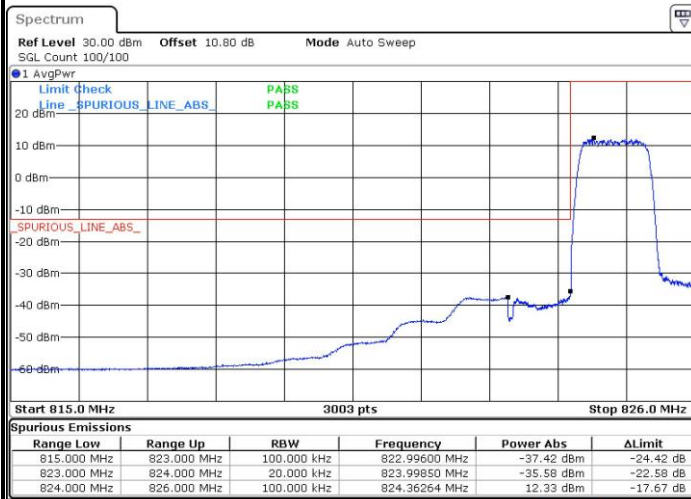
Lowest Band Edge / 1RB



Highest Band Edge / 1RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB





LTE Band 5 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



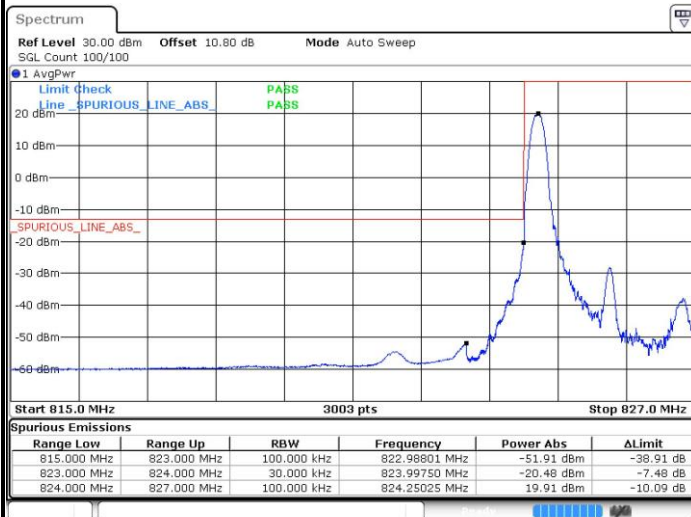
Highest Band Edge / Full RB





LTE Band 5 / 3MHz / QPSK

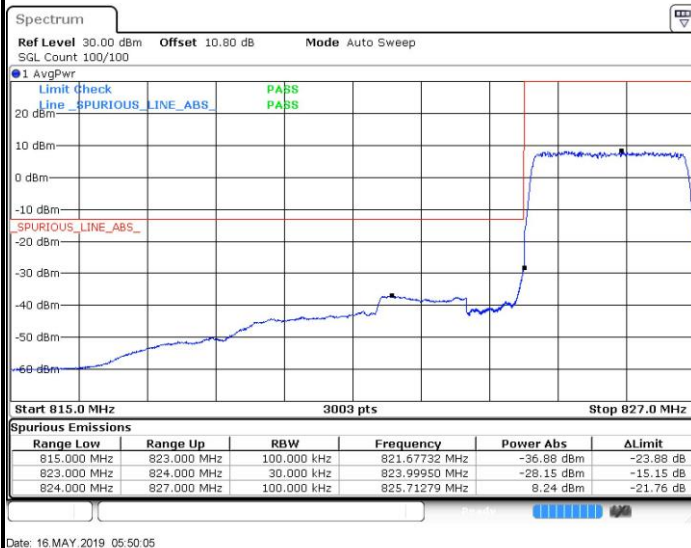
Lowest Band Edge / 1RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



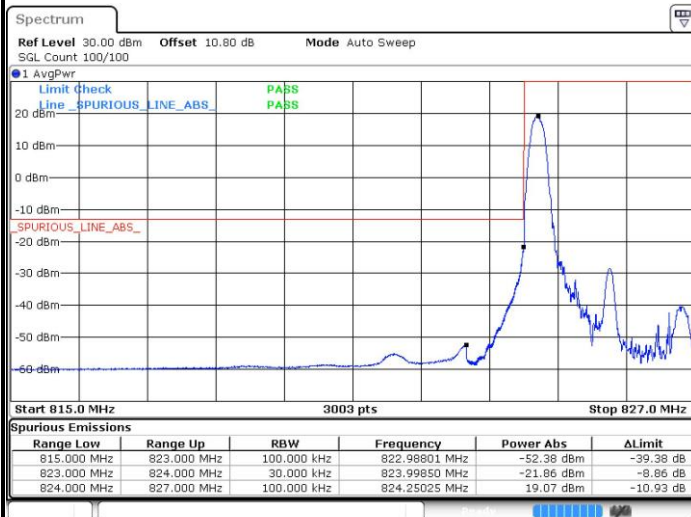
Highest Band Edge / Full RB





LTE Band 5 / 3MHz / 16QAM

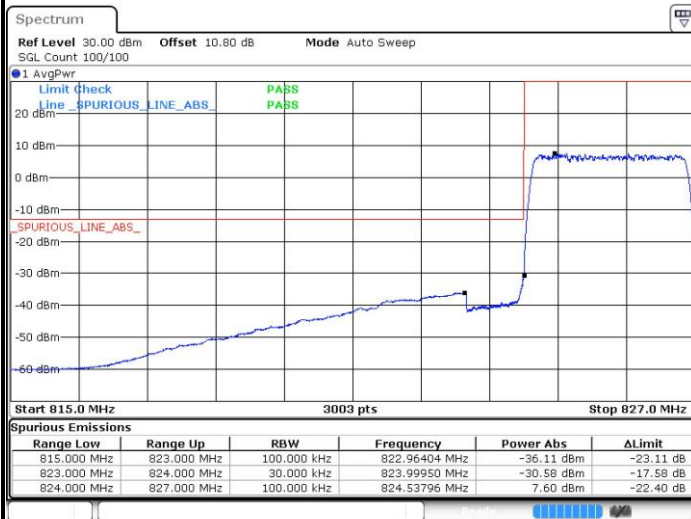
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

