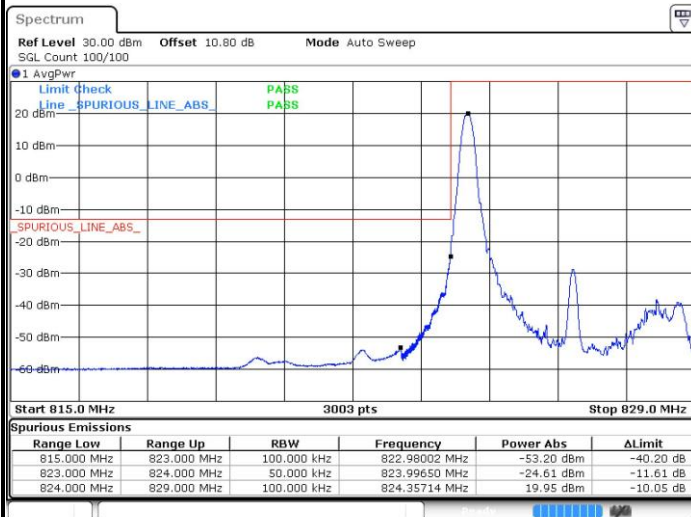


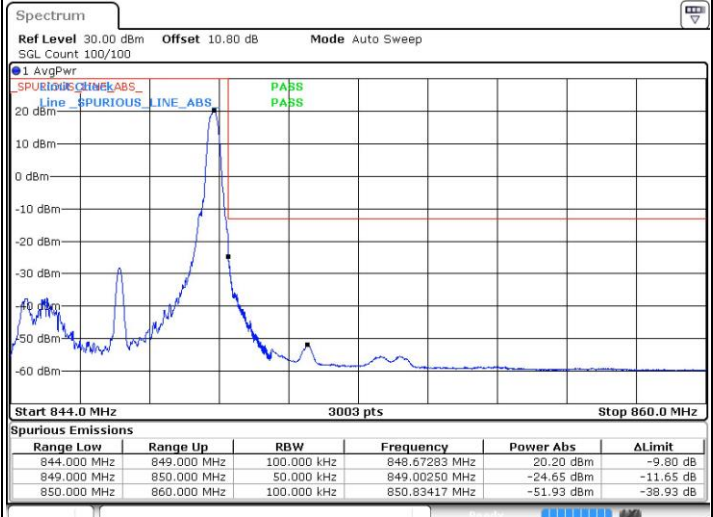


LTE Band 5 / 5MHz / QPSK

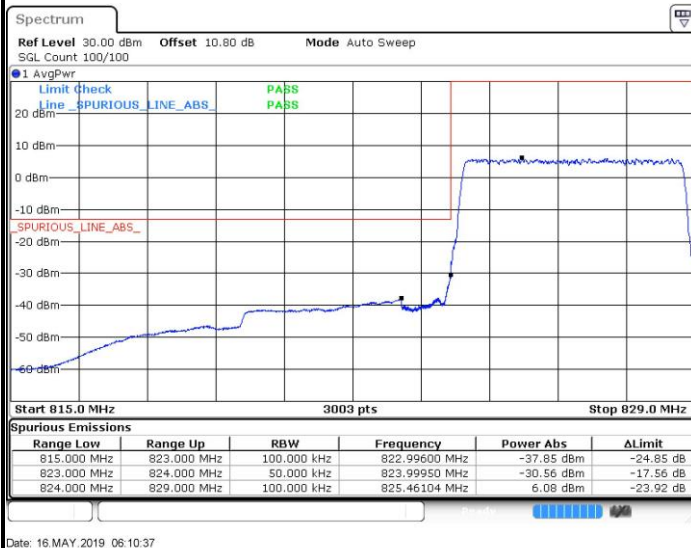
Lowest Band Edge / 1 RB



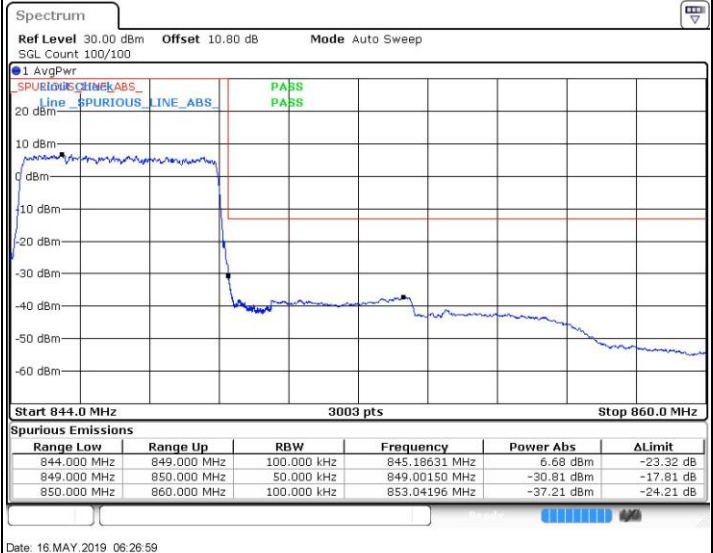
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



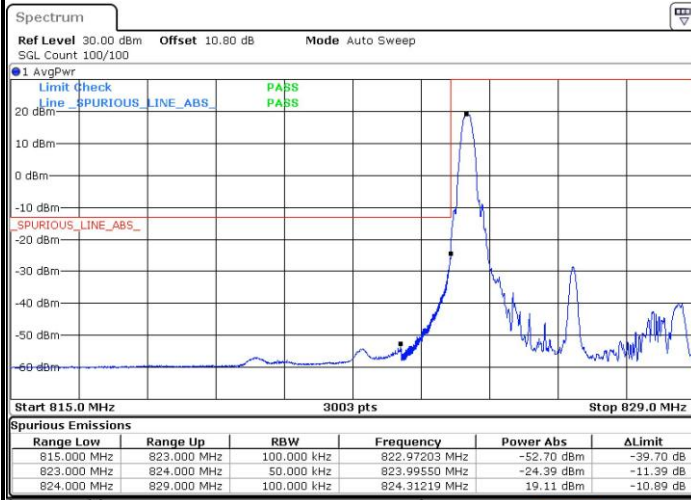
Highest Band Edge / Full RB



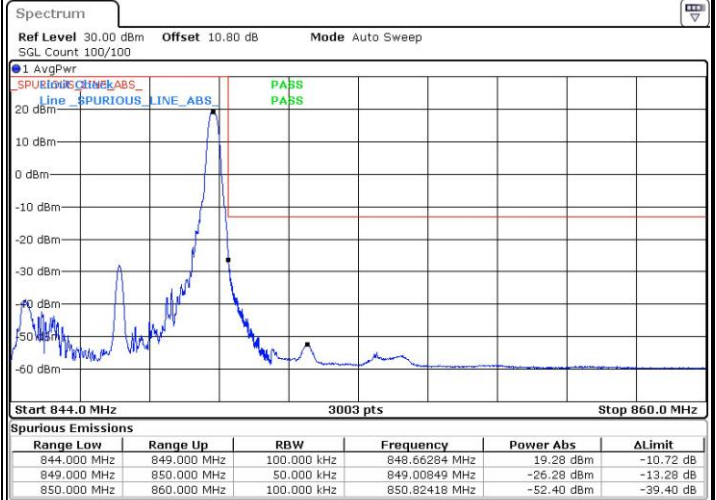


LTE Band 5 / 5MHz / 16QAM

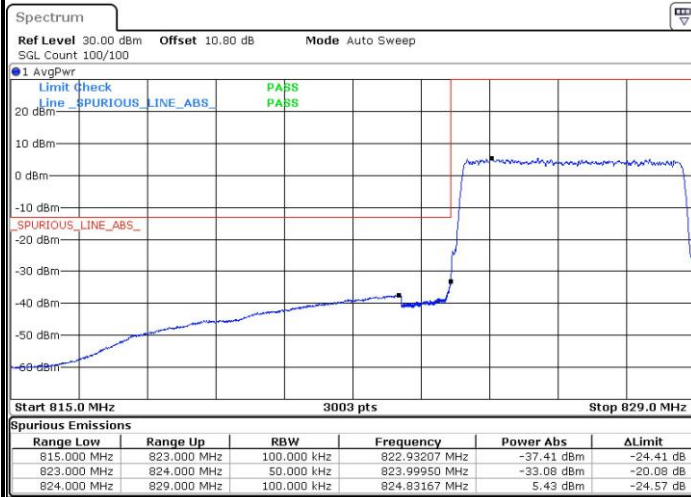
Lowest Band Edge / 1RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



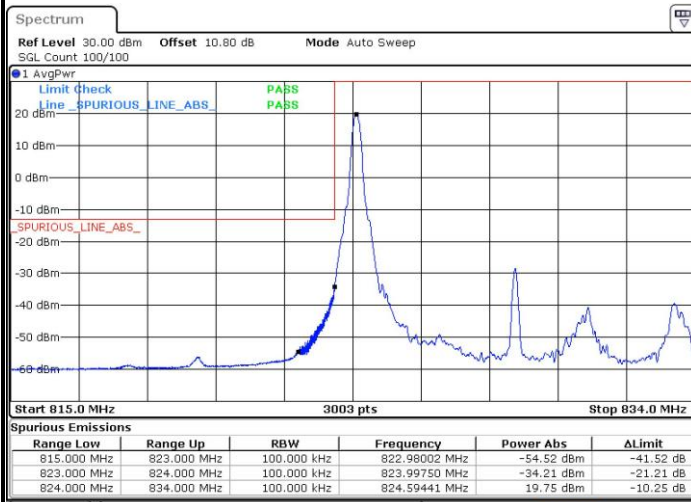
Highest Band Edge / Full RB



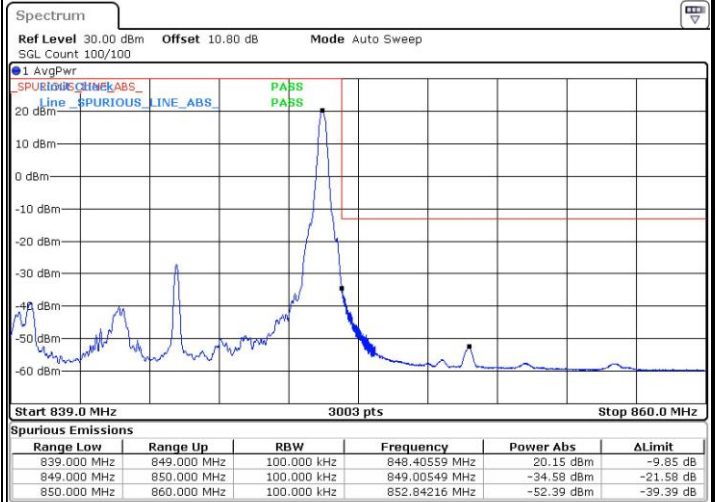


LTE Band 5 / 10MHz / QPSK

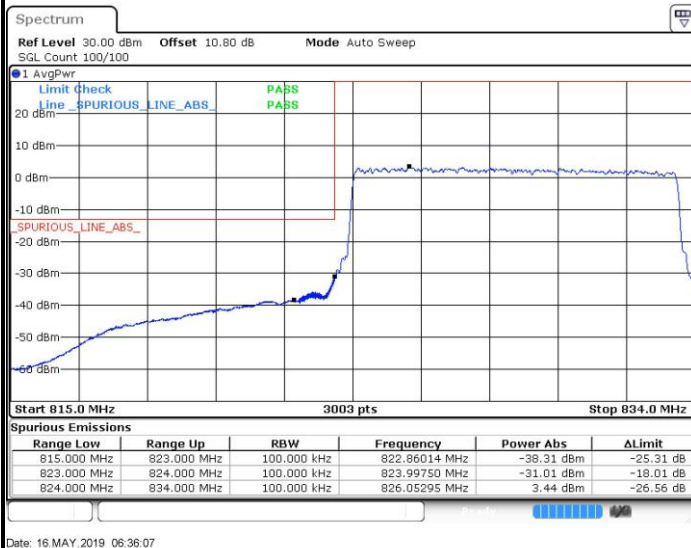
Lowest Band Edge / 1 RB



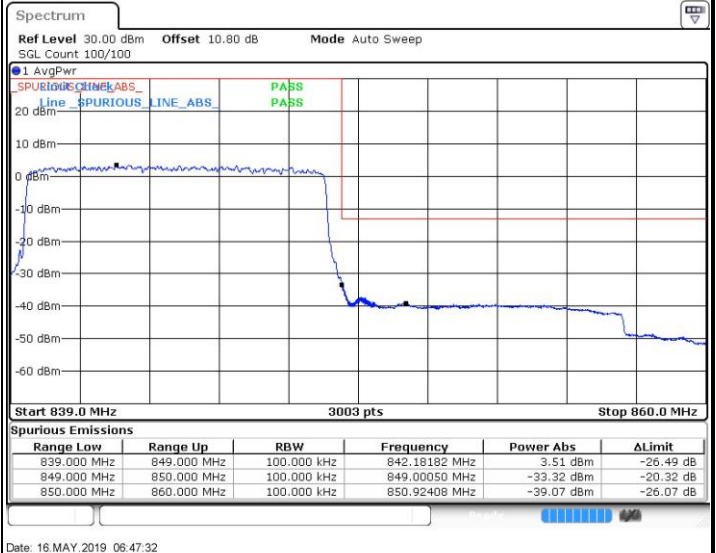
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



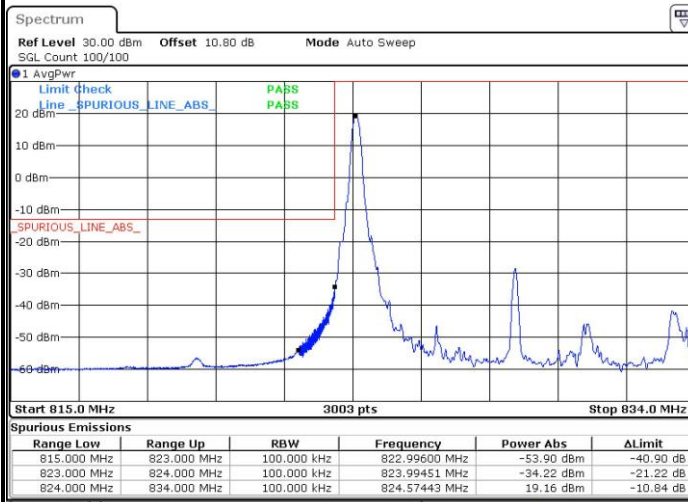
Highest Band Edge / Full RB



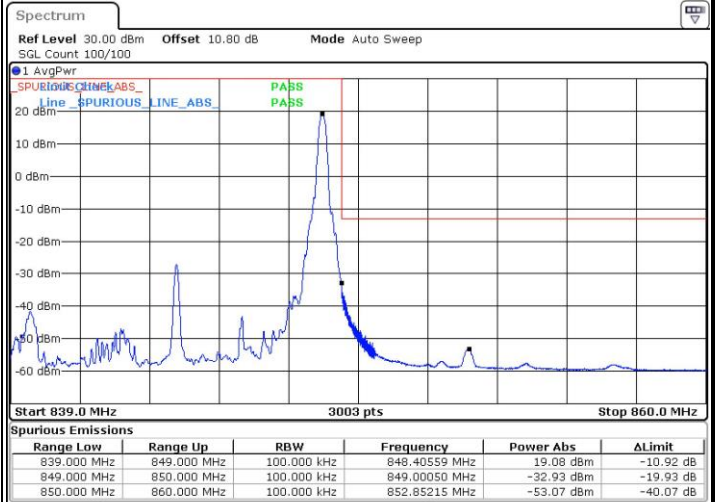


LTE Band 5 / 10MHz / 16QAM

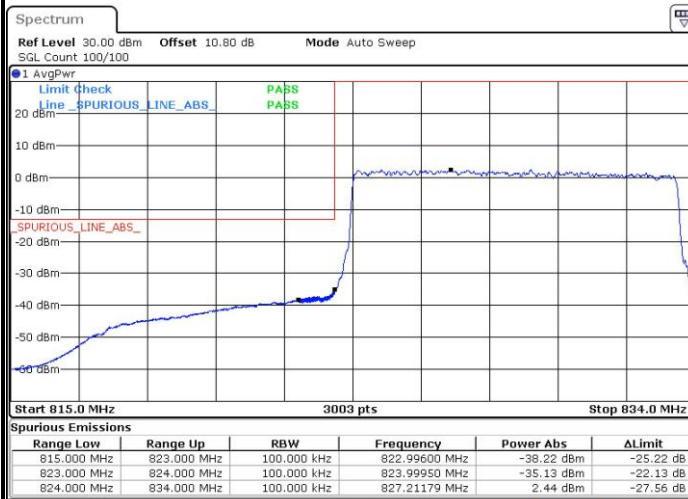
Lowest Band Edge / 1 RB



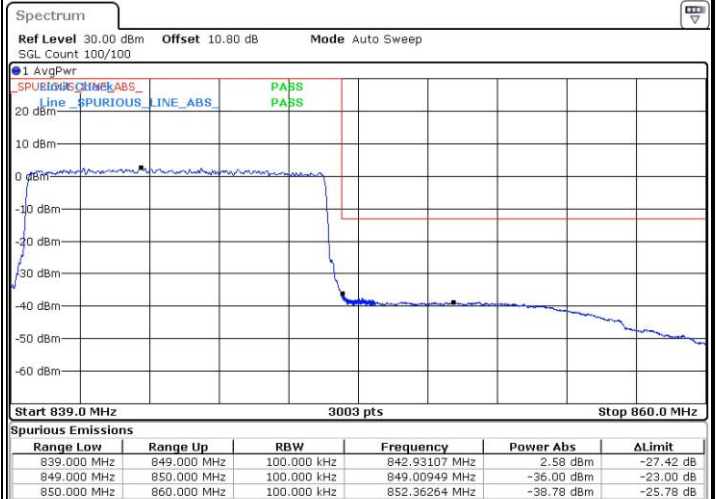
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB



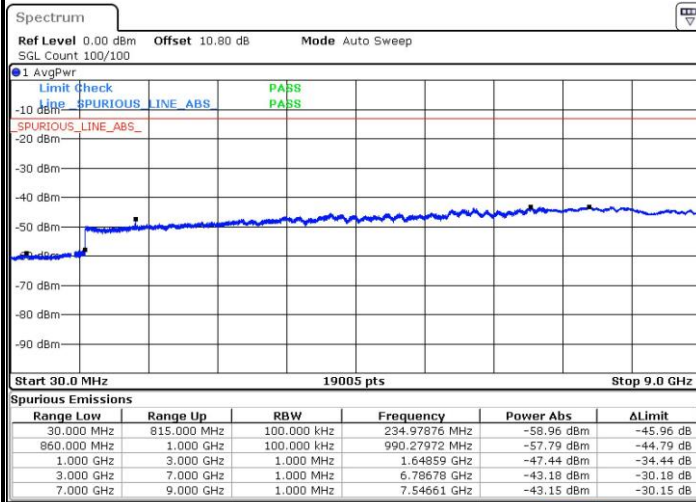


Conducted Spurious Emission



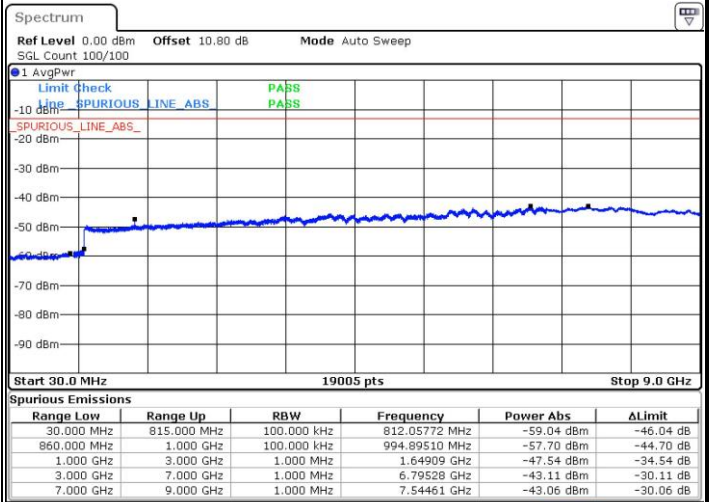
LTE Band 5 / 1.4MHz

Lowest Channel / QPSK



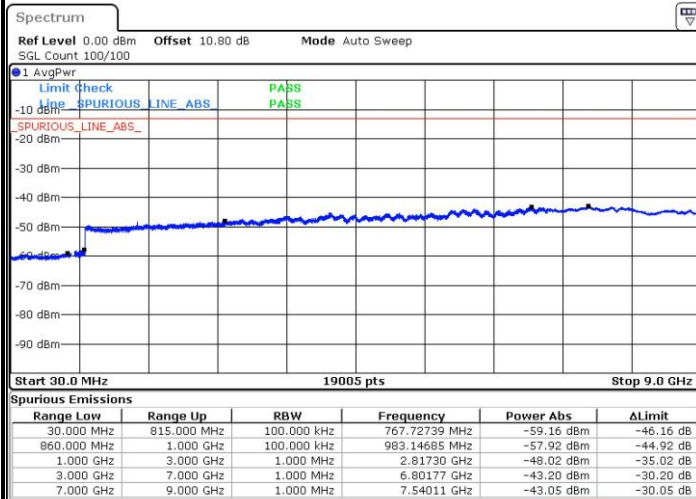
Date: 16 MAY 2019 07:01:49

Lowest Channel / 16QAM



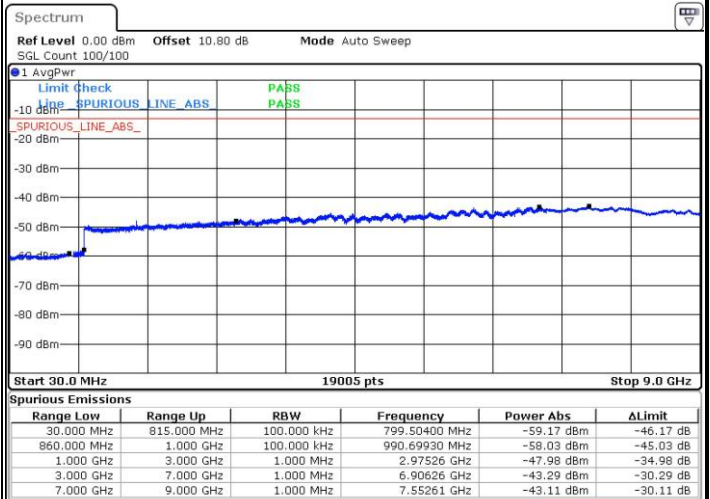
Date: 16 MAY 2019 07:02:35

Middle Channel / QPSK



Date: 16 MAY 2019 07:04:08

Middle Channel / 16QAM

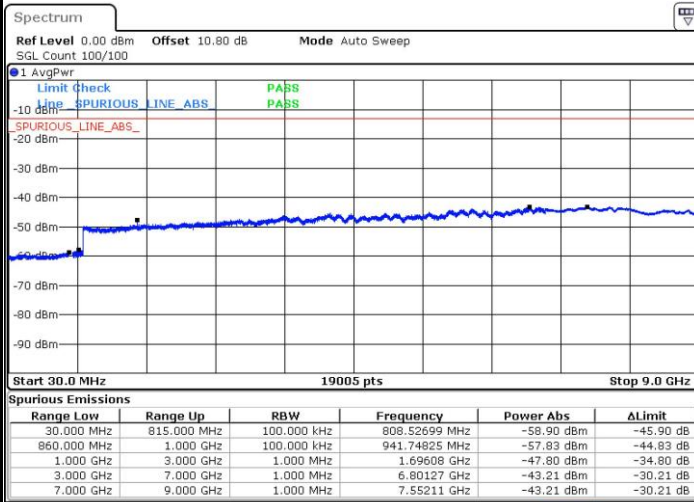


Date: 16 MAY 2019 07:04:54



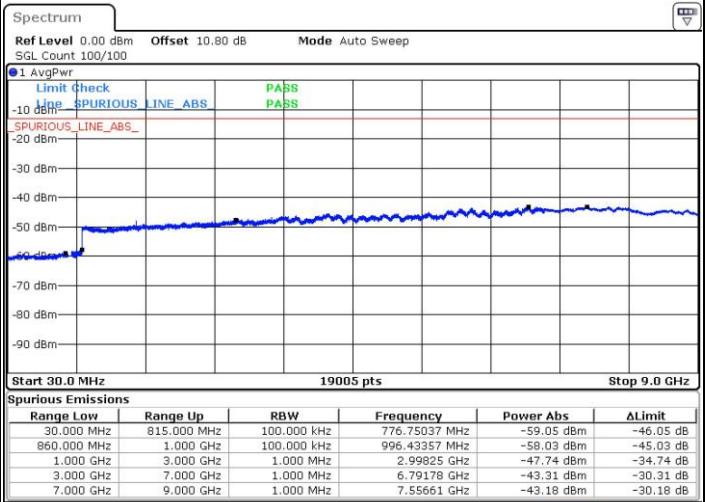
LTE Band 5 / 1.4MHz

Highest Channel / QPSK



Date: 16 MAY 2019 07:13:13

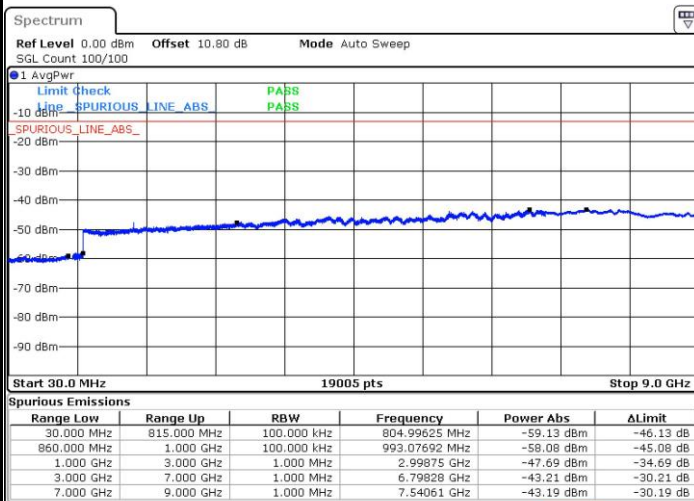
Highest Channel / 16QAM



Date: 16 MAY 2019 07:14:00

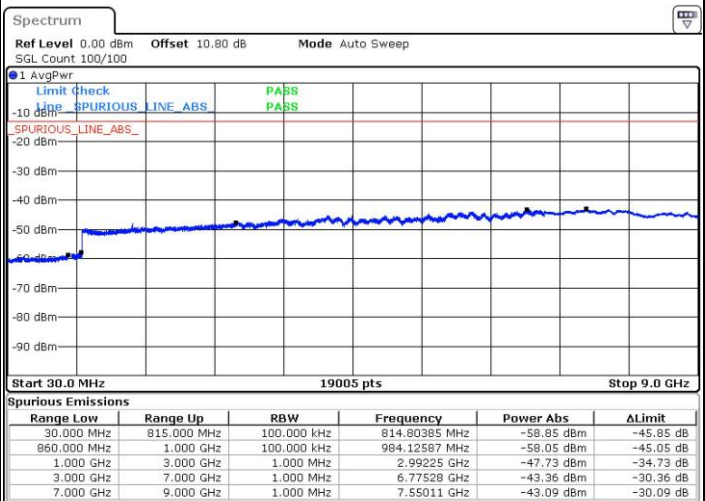
LTE Band 5 / 3MHz

Lowest Channel / QPSK



Date: 16 MAY 2019 05:52:32

Lowest Channel / 16QAM

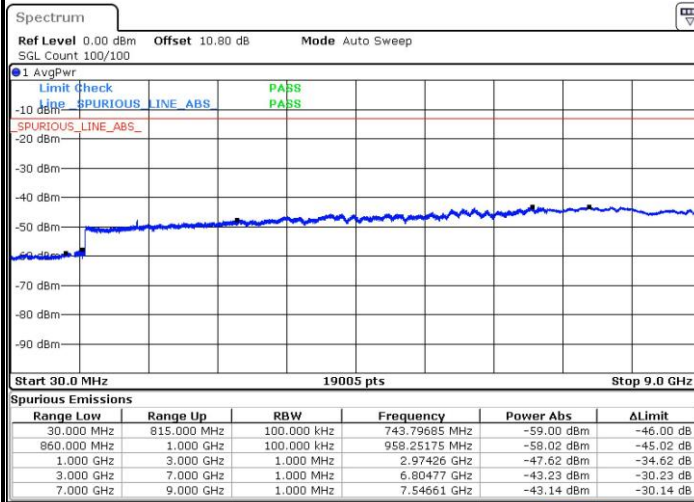


Date: 16 MAY 2019 05:53:18



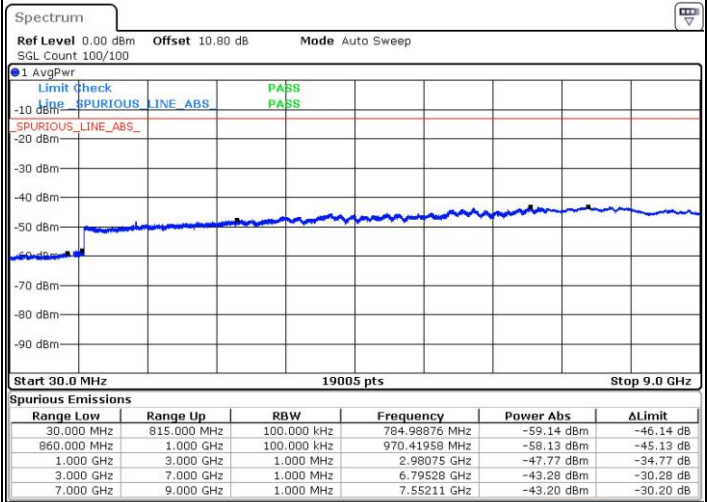
LTE Band 5 / 3MHz

Middle Channel / QPSK



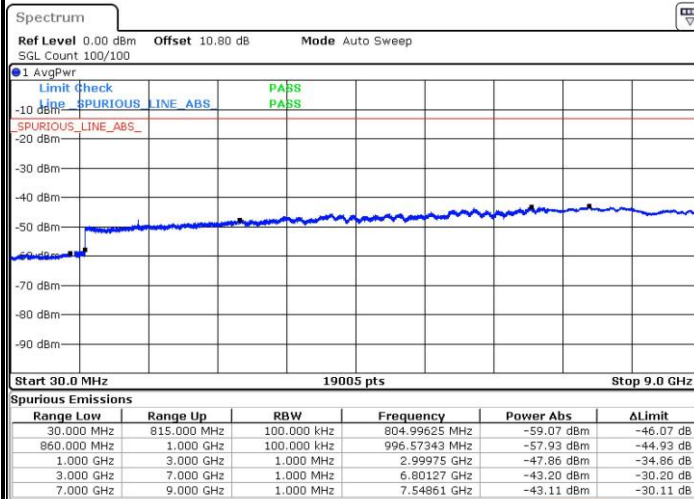
Date: 16 MAY 2019 05:54:52

Middle Channel / 16QAM



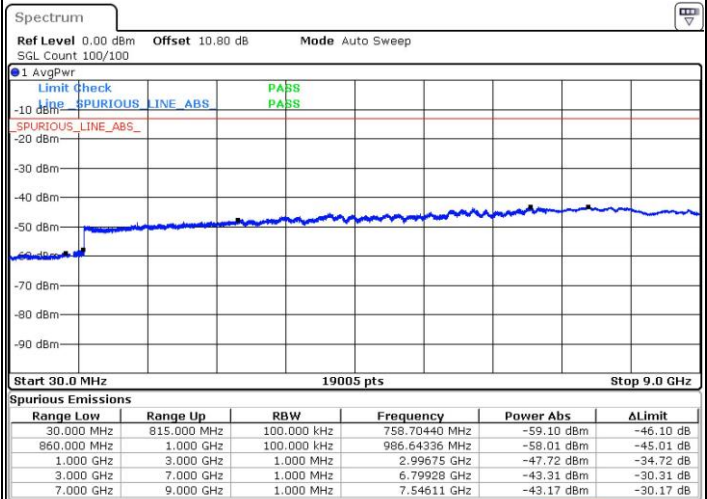
Date: 16 MAY 2019 05:55:37

Highest Channel / QPSK



Date: 16 MAY 2019 06:03:57

Highest Channel / 16QAM

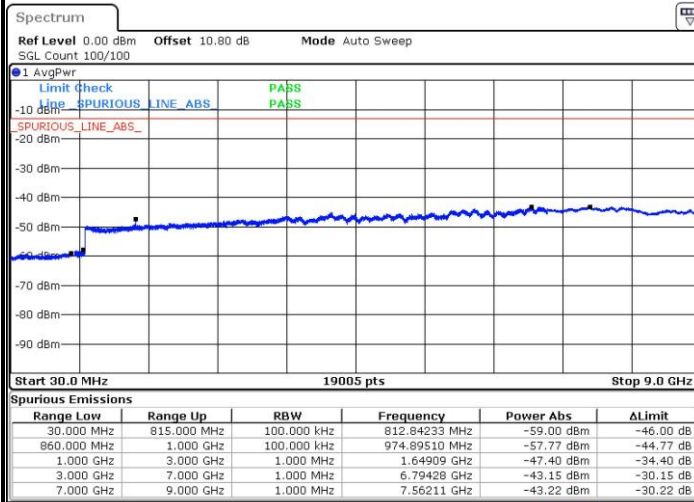


Date: 16 MAY 2019 06:04:43



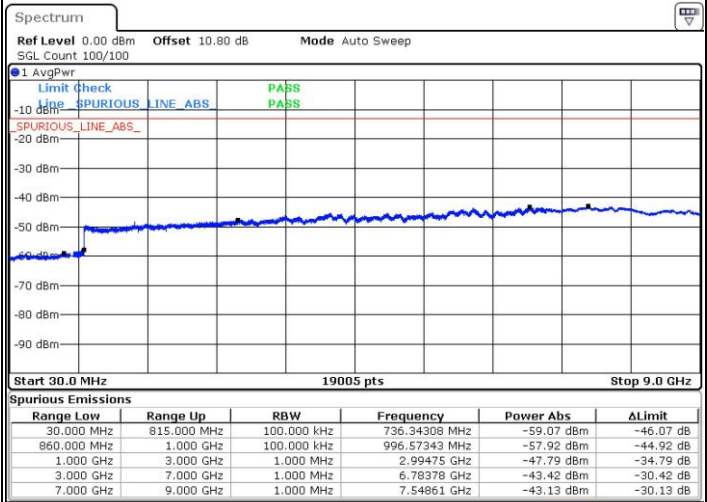
LTE Band 5 / 5MHz

Lowest Channel / QPSK



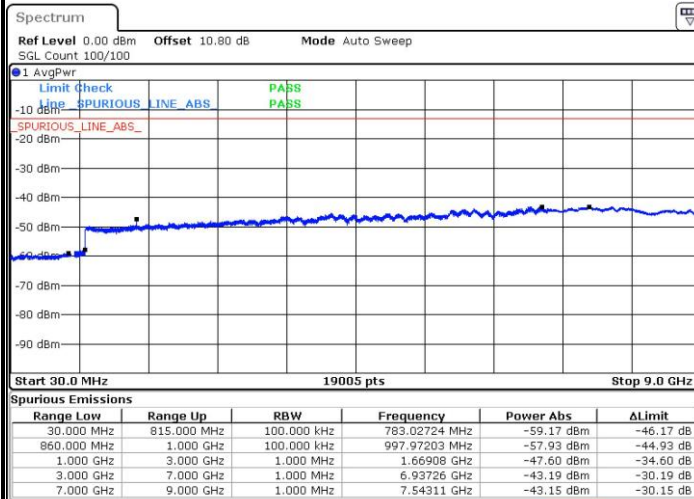
Date: 16 MAY 2019 06:13:05

Lowest Channel / 16QAM



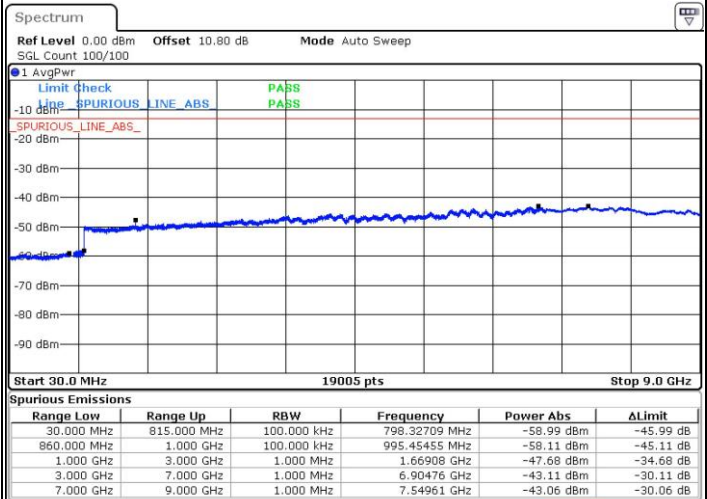
Date: 16 MAY 2019 06:13:51

Middle Channel / QPSK



Date: 16 MAY 2019 06:20:21

Middle Channel / 16QAM

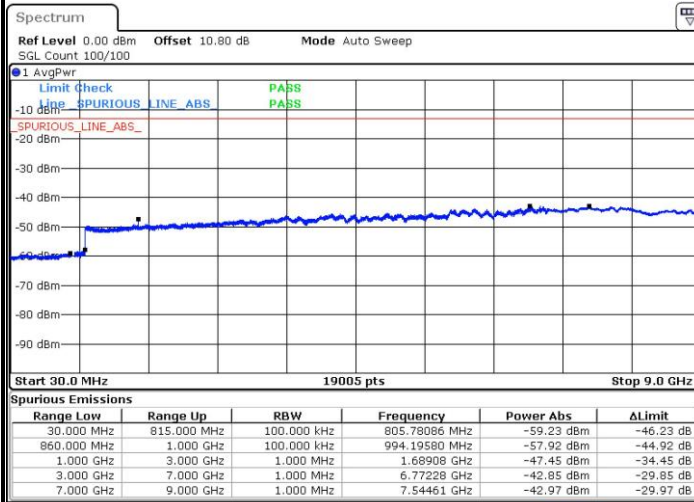


Date: 16 MAY 2019 06:21:07



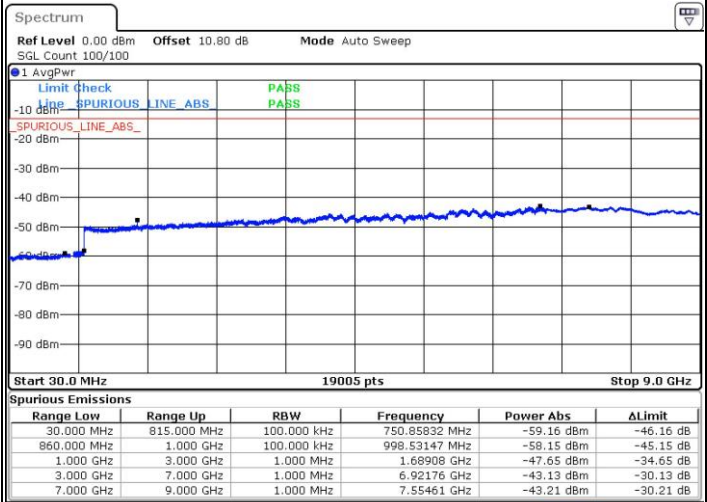
LTE Band 5 / 5MHz

Highest Channel / QPSK



Date: 16 MAY 2019 06:29:27

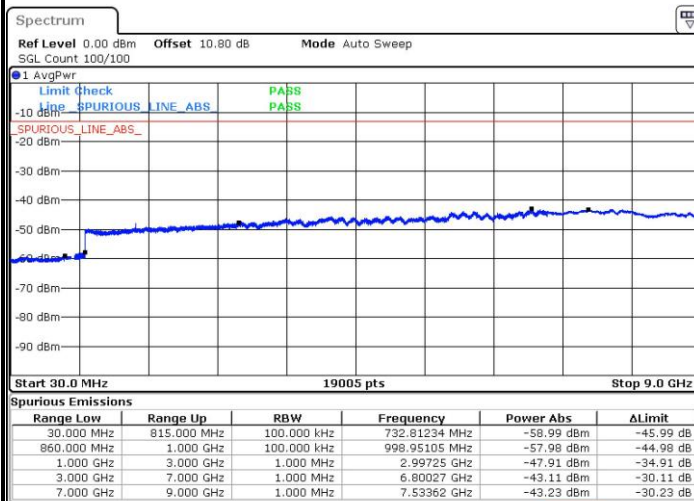
Highest Channel / 16QAM



Date: 16 MAY 2019 06:30:13

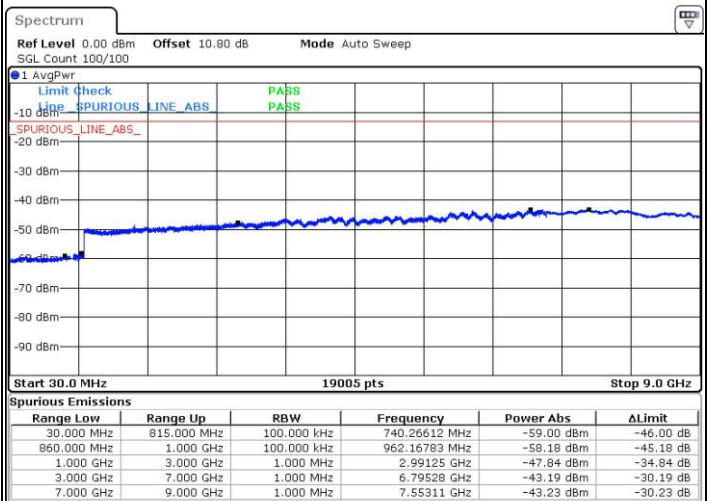
LTE Band 5 / 10MHz

Lowest Channel / QPSK



Date: 16 MAY 2019 06:38:35

Lowest Channel / 16QAM

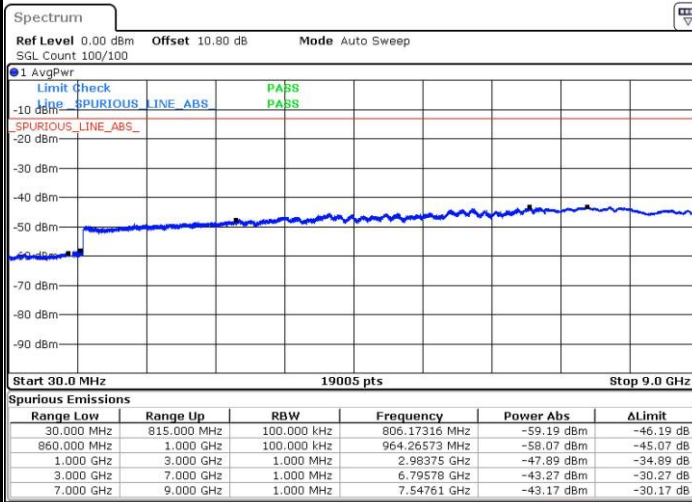


Date: 16 MAY 2019 06:39:21



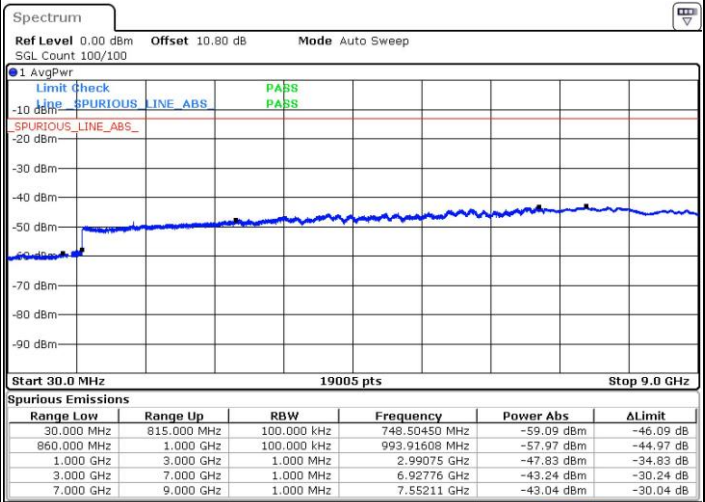
LTE Band 5 / 10MHz

Middle Channel / QPSK



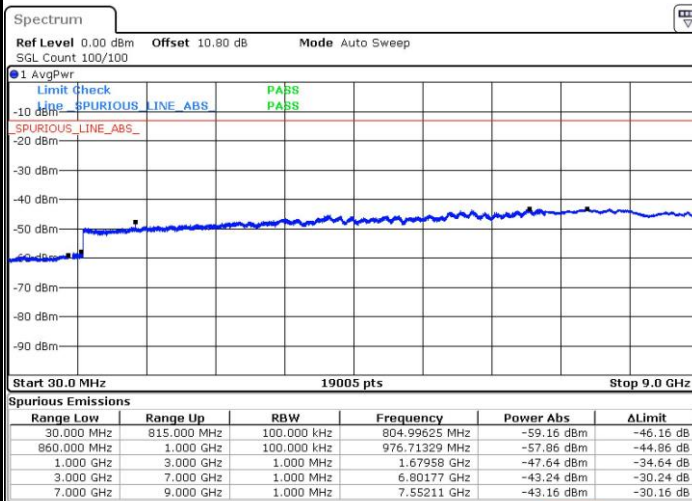
Date: 16 MAY 2019 06:40:54

Middle Channel / 16QAM



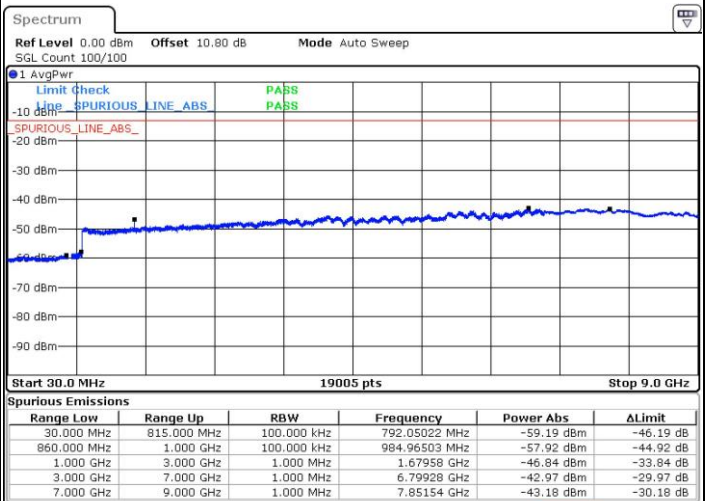
Date: 16 MAY 2019 06:41:40

Highest Channel / QPSK



Date: 16 MAY 2019 06:50:00

Highest Channel / 16QAM



Date: 16 MAY 2019 06:50:46

Frequency Stability

Test Conditions		LTE Band 5 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0068	PASS
40	Normal Voltage	0.0002	
30	Normal Voltage	0.0005	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0005	
0	Normal Voltage	0.0065	
-10	Normal Voltage	0.0069	
-20	Normal Voltage	0.0035	
-30	Normal Voltage	0.0018	
20	Maximum Voltage	0.0053	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0060	

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 7

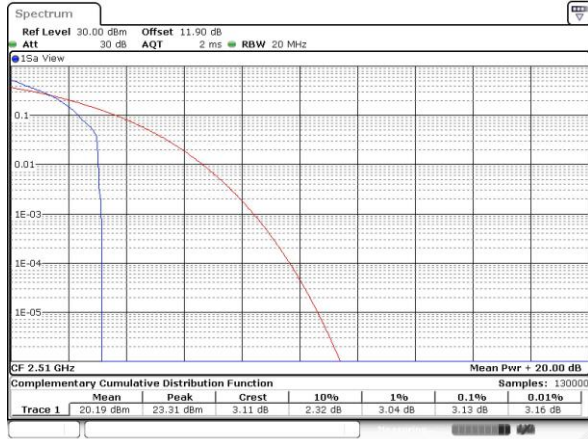
Peak-to-Average Ratio

Mode	LTE Band 7 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.13	4.26	4.55	5.51	PASS
Middle CH	3.16	4.09	4.75	5.57	
Highest CH	3.04	4.09	4.12	5.3	

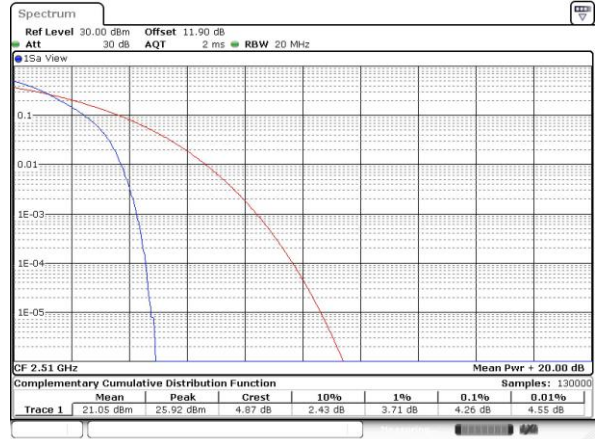


LTE Band 7 / 20MHz / QPSK

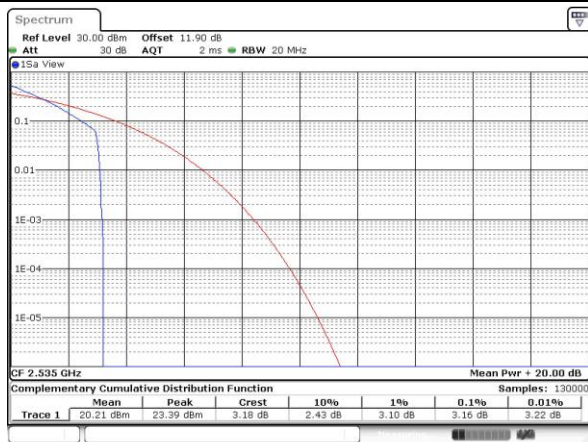
Lowest Channel / 1RB



Lowest Channel / Full RB



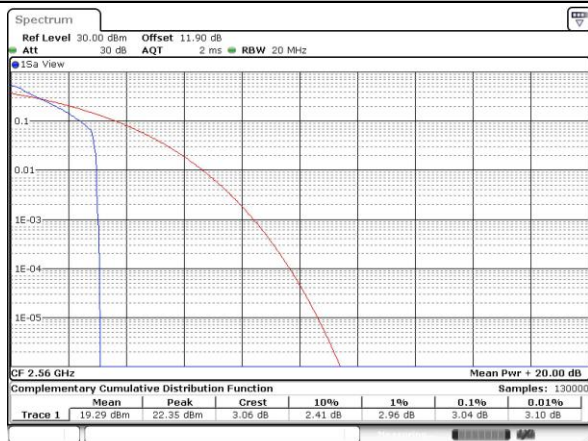
Middle Channel / 1RB



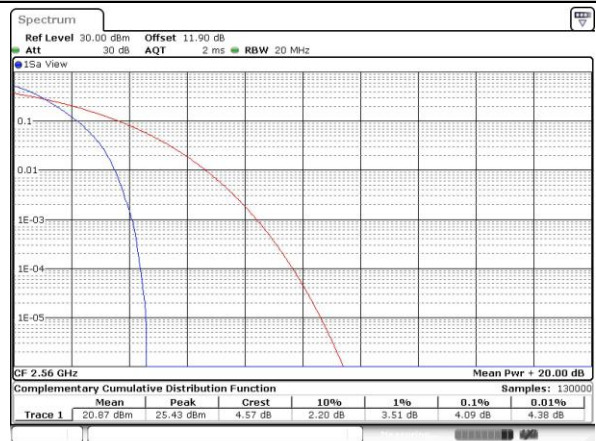
Middle Channel / Full RB

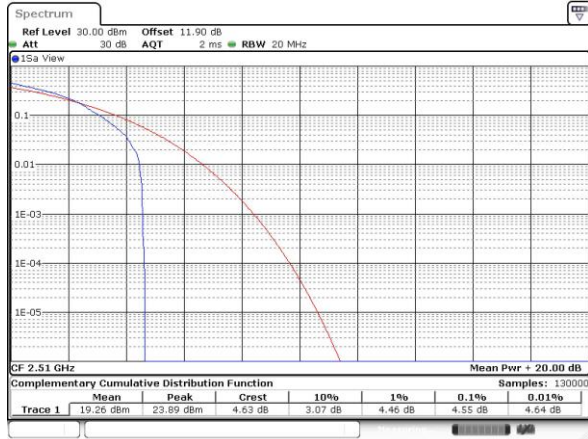


Highest Channel / 1RB

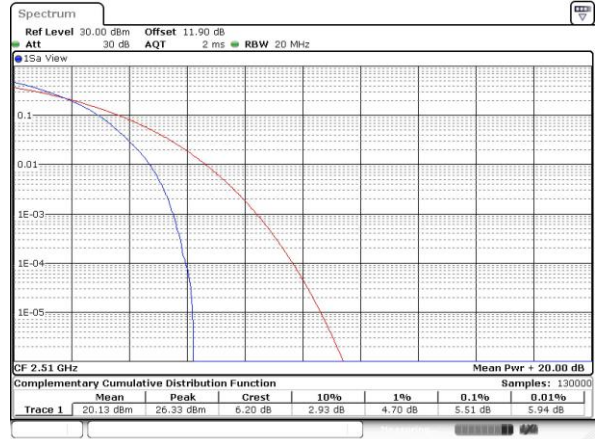


Highest Channel / Full RB

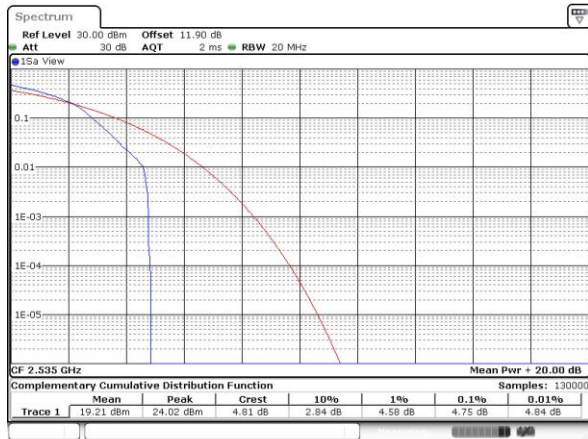


LTE Band 7 / 20MHz / 16QAM
Lowest Channel / 1RB


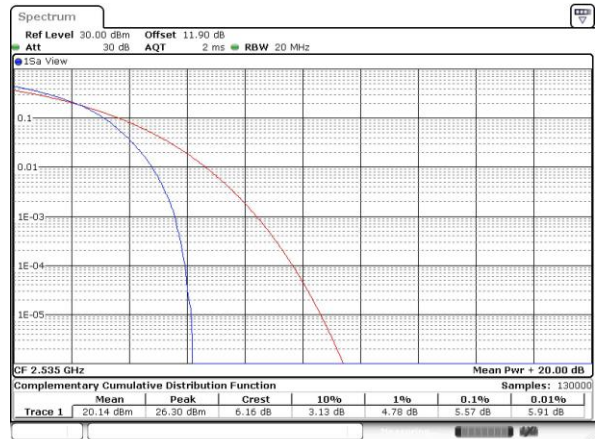
Date: 15 MAY 2019 22:59:47

Lowest Channel / Full RB


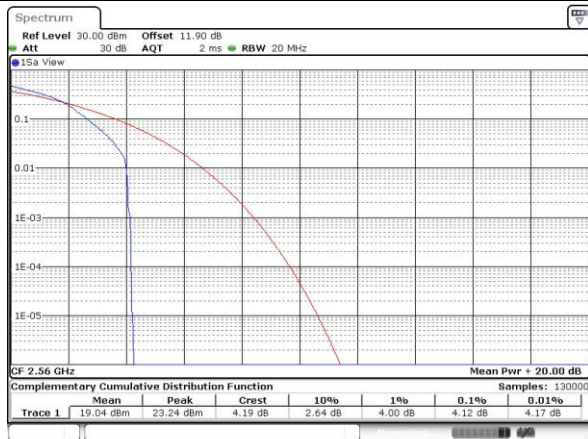
Date: 15 MAY 2019 23:00:02

Middle Channel / 1RB


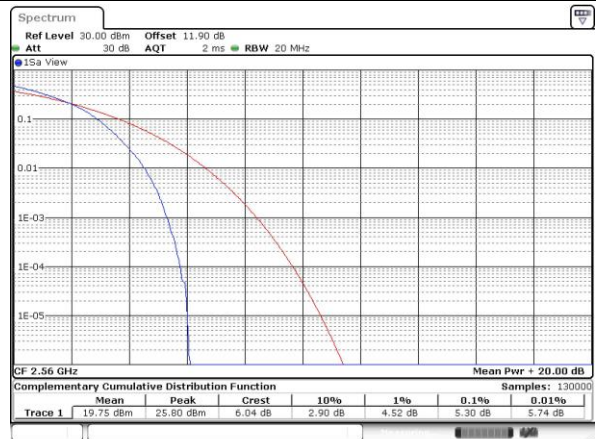
Date: 15 MAY 2019 23:00:16

Middle Channel / Full RB


Date: 15 MAY 2019 23:00:27

Highest Channel / 1RB


Date: 15 MAY 2019 23:00:53

Highest Channel / Full RB


Date: 15 MAY 2019 23:01:12

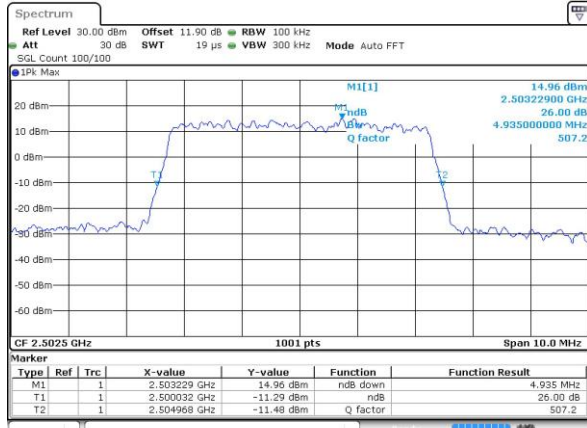
**26dB Bandwidth**

Mode	LTE Band 7 : 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	-	-	-	-	4.94	4.94	9.77	9.77	14.51	14.30	18.86	18.90
Middle CH	-	-	-	-	4.91	4.93	9.77	9.87	14.42	14.24	18.78	18.98
Highest CH	-	-	-	-	4.93	4.85	9.85	9.63	14.45	14.18	19.26	19.02



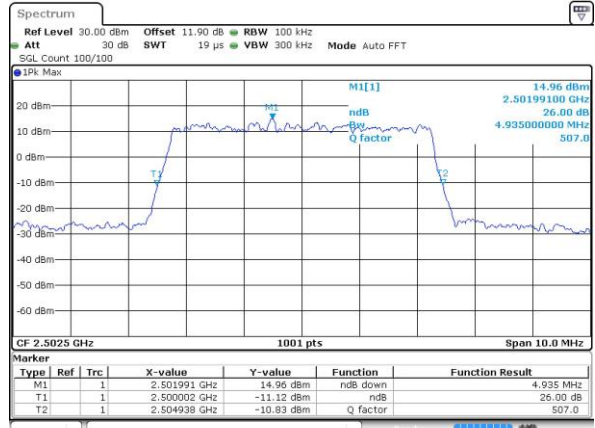
LTE Band 7

Lowest Channel / 5MHz / QPSK



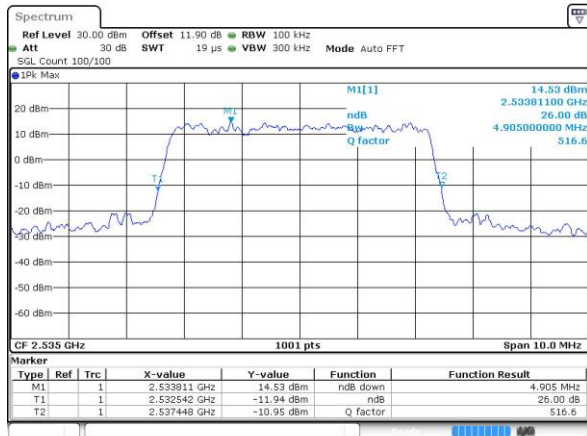
Date: 15 MAY 2019 22:07:19

Lowest Channel / 5MHz / 16QAM



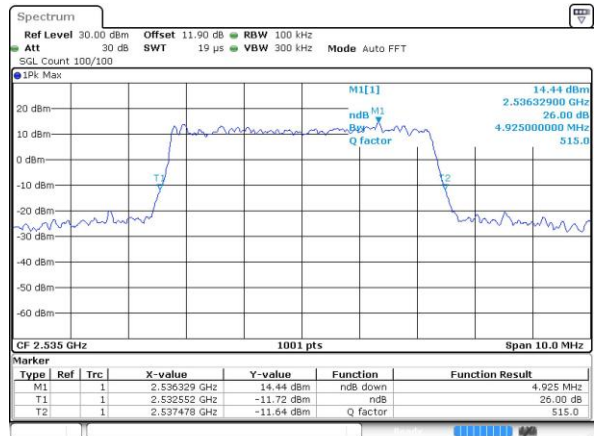
Date: 15 MAY 2019 22:07:32

Middle Channel / 5MHz / QPSK



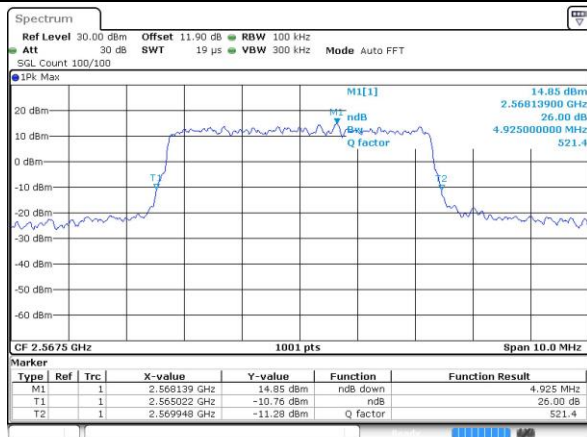
Date: 15 MAY 2019 22:12:06

Middle Channel / 5MHz / 16QAM



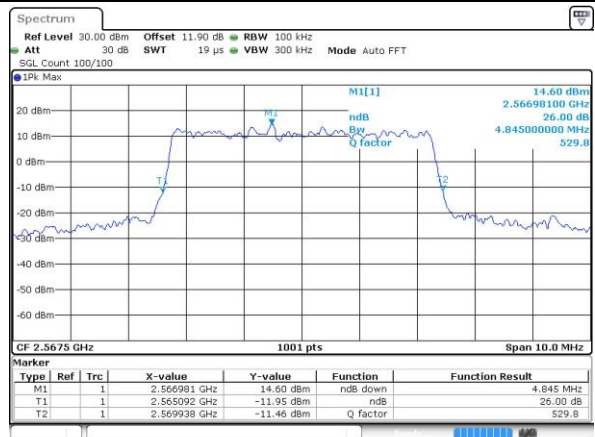
Date: 15 MAY 2019 22:12:17

Highest Channel / 5MHz / QPSK



Date: 15 MAY 2019 22:14:24

Highest Channel / 5MHz / 16QAM

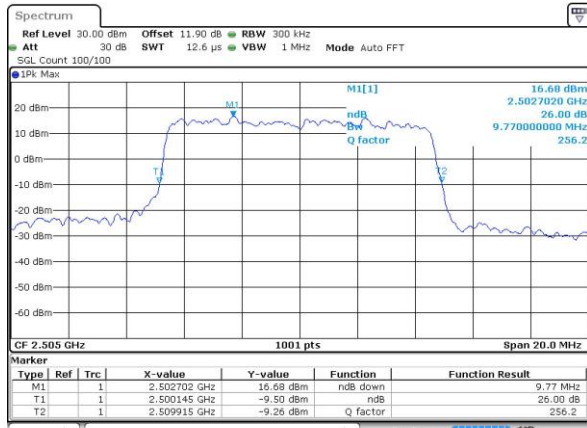


Date: 15 MAY 2019 22:14:37

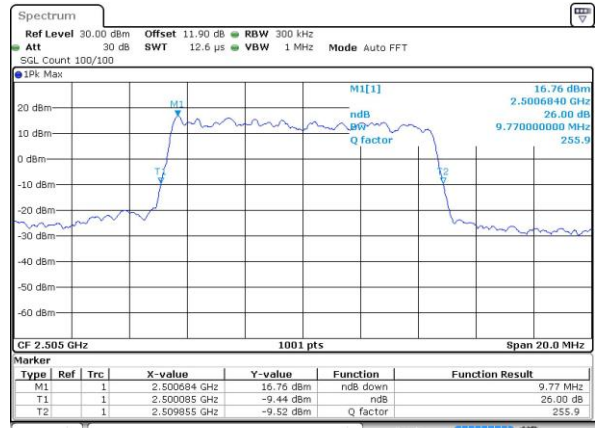


LTE Band 7

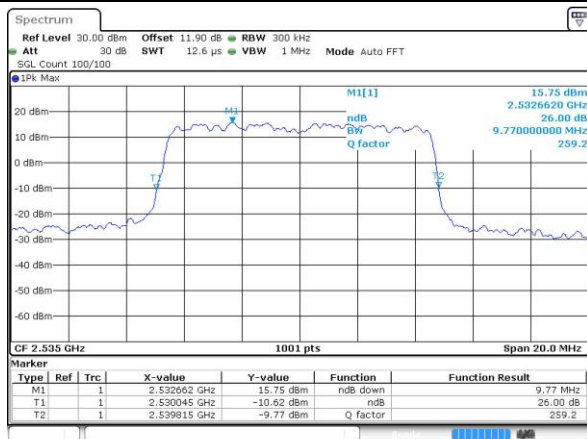
Lowest Channel / 10MHz / QPSK



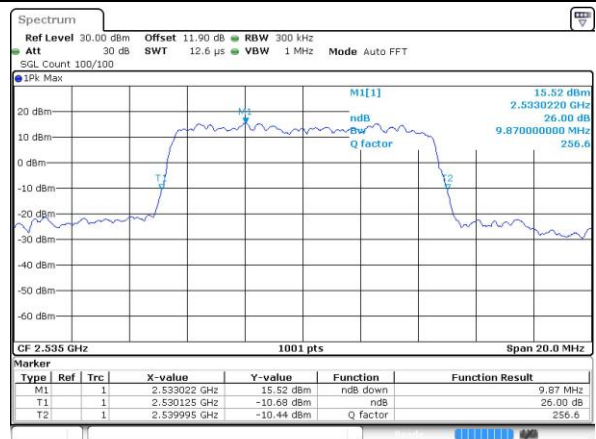
Lowest Channel / 10MHz / 16QAM



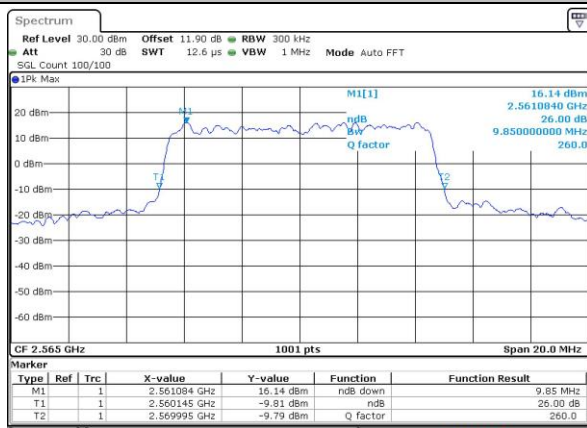
Middle Channel / 10MHz / QPSK



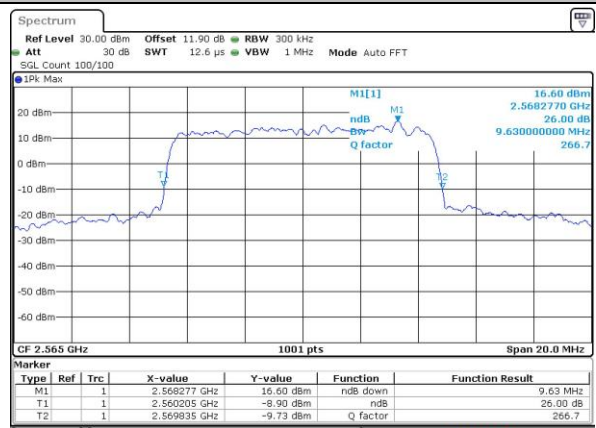
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



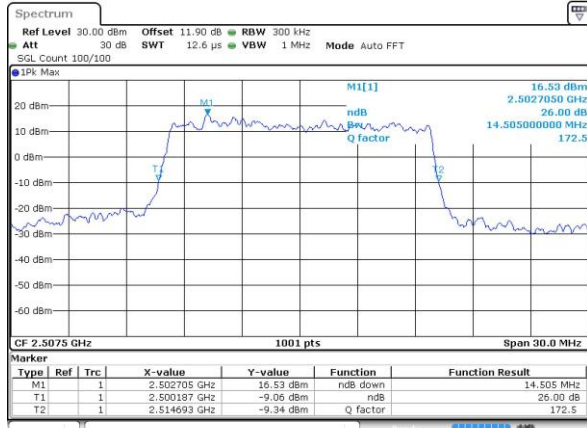
Highest Channel / 10MHz / 16QAM





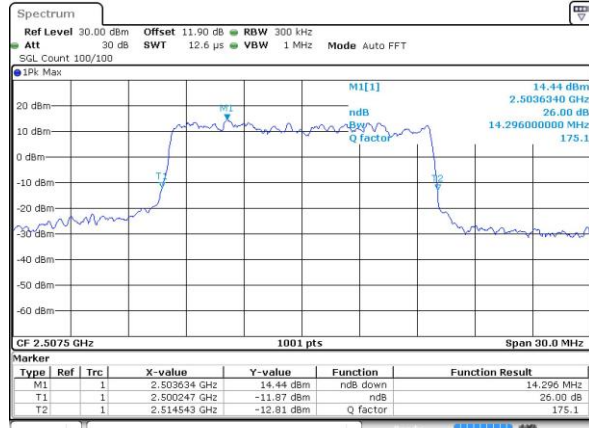
LTE Band 7

Lowest Channel / 15MHz / QPSK



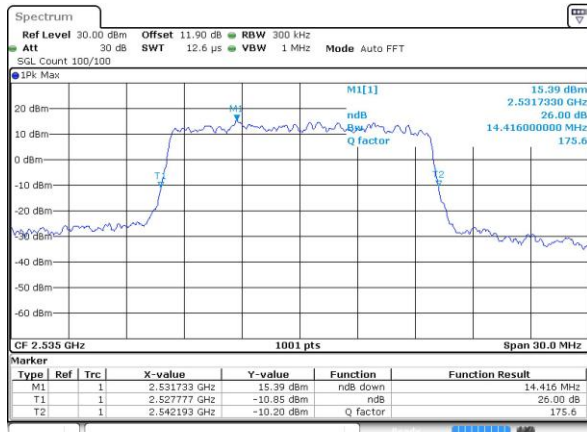
Date: 15 MAY 2019 22:31:09

Lowest Channel / 15MHz / 16QAM



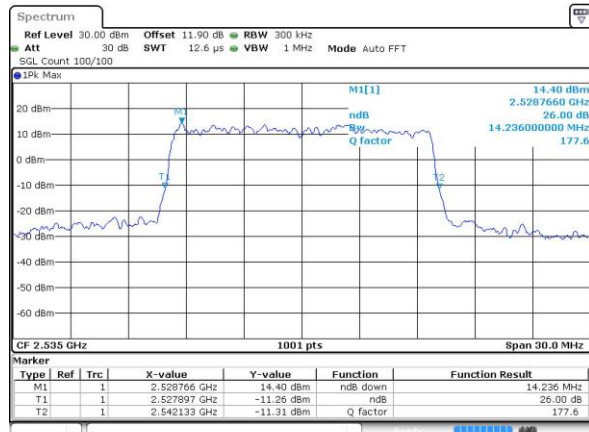
Date: 15 MAY 2019 22:31:21

Middle Channel / 15MHz / QPSK



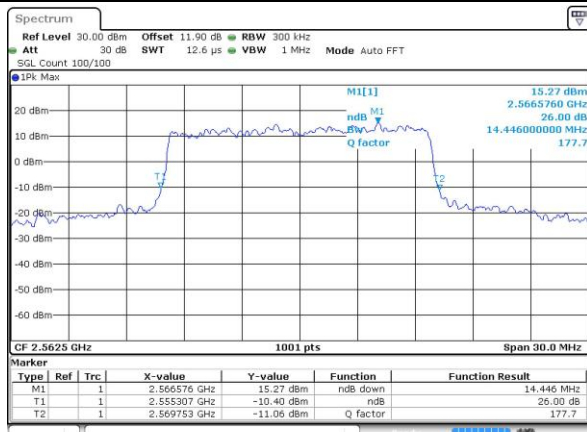
Date: 15 MAY 2019 22:35:55

Middle Channel / 15MHz / 16QAM



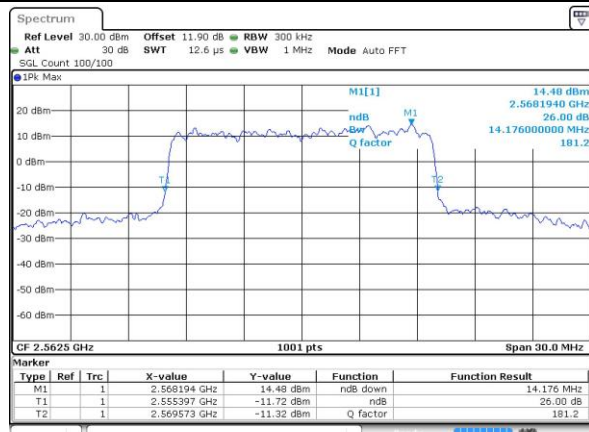
Date: 15 MAY 2019 22:36:06

Highest Channel / 15MHz / QPSK



Date: 15 MAY 2019 22:38:13

Highest Channel / 15MHz / 16QAM

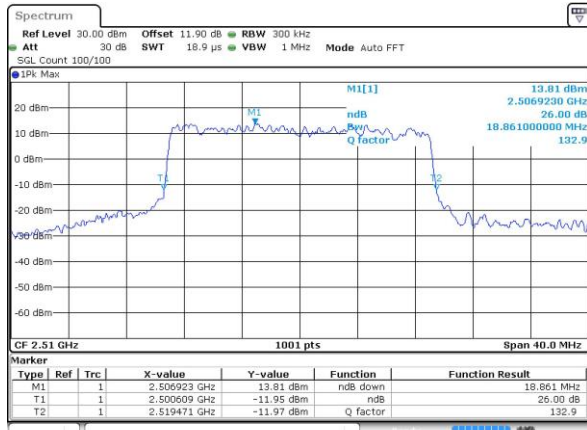


Date: 15 MAY 2019 22:38:26



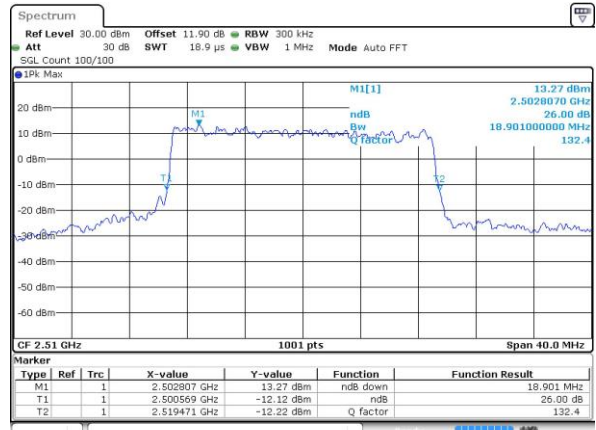
LTE Band 7

Lowest Channel / 20MHz / QPSK



Date: 15 MAY 2019 22:43:03

Lowest Channel / 20MHz / 16QAM



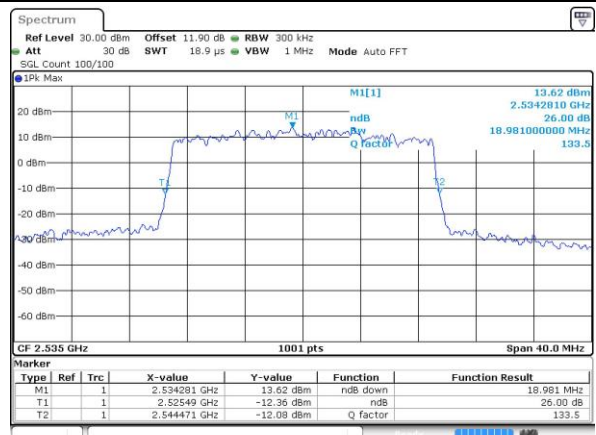
Date: 15 MAY 2019 22:43:15

Middle Channel / 20MHz / QPSK



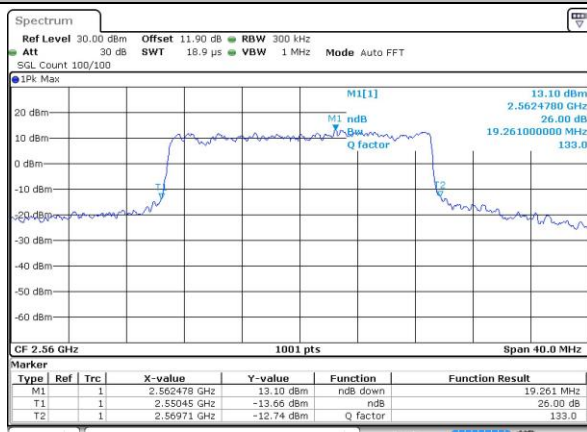
Date: 15 MAY 2019 22:47:49

Middle Channel / 20MHz / 16QAM



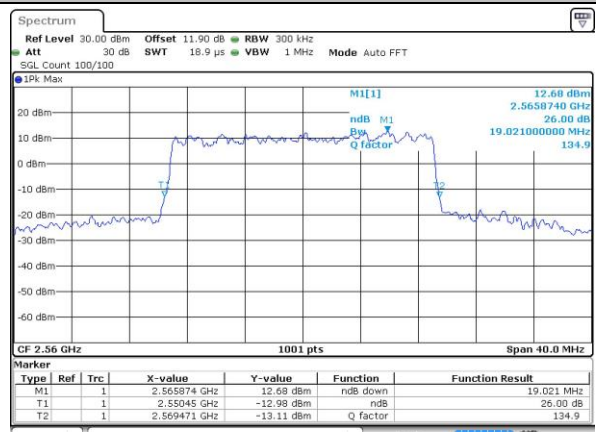
Date: 15 MAY 2019 22:48:01

Highest Channel / 20MHz / QPSK



Date: 15 MAY 2019 22:50:08

Highest Channel / 20MHz / 16QAM



Date: 15 MAY 2019 22:50:21



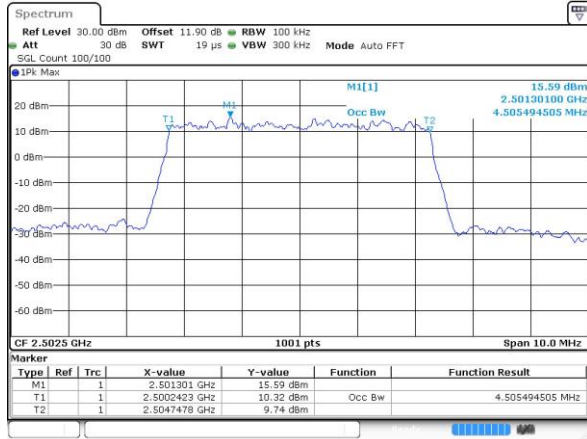
Occupied Bandwidth

Mode	LTE Band 7 : 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	-	-	-	-	4.51	4.49	9.05	9.05	13.46	13.43	17.9	17.94
Middle CH	-	-	-	-	4.5	4.51	8.97	9.03	13.43	13.34	17.82	17.86
Highest CH	-	-	-	-	4.49	4.49	9.09	8.97	13.46	13.46	17.94	17.9



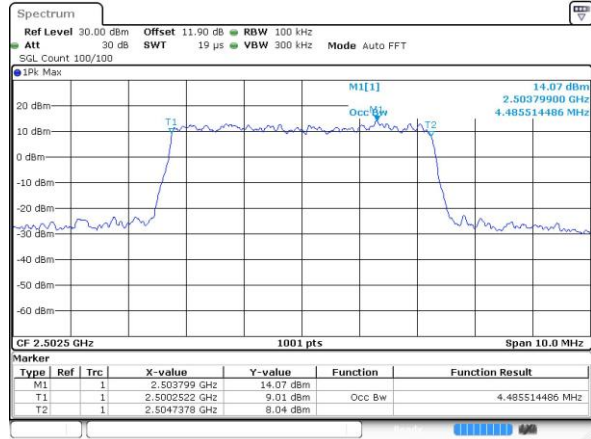
LTE Band 7

Lowest Channel / 5MHz / QPSK



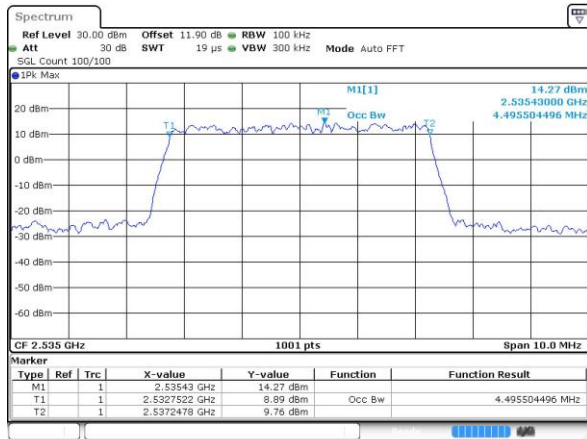
Date: 15 MAY 2019 22:06:54

Lowest Channel / 5MHz / 16QAM



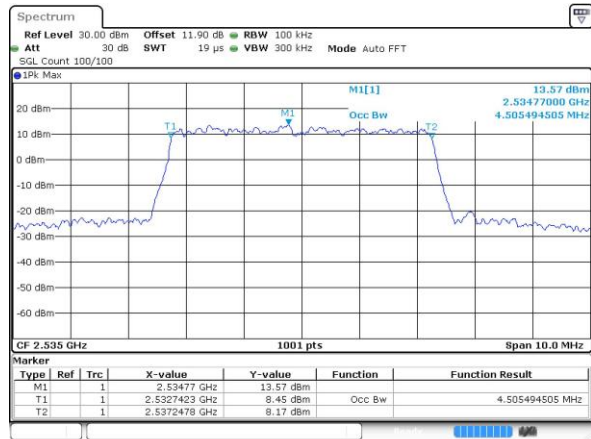
Date: 15 MAY 2019 22:07:07

Middle Channel / 5MHz / QPSK



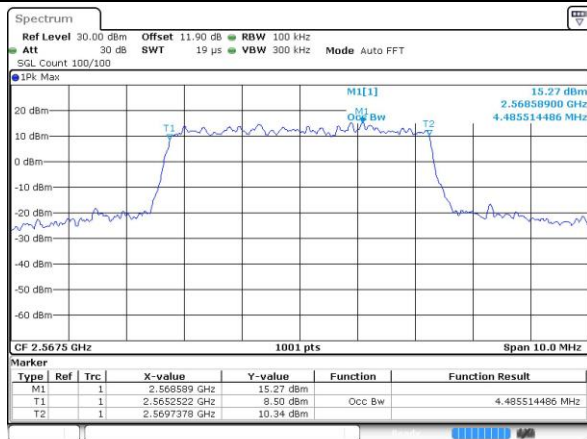
Date: 15 MAY 2019 22:11:42

Middle Channel / 5MHz / 16QAM



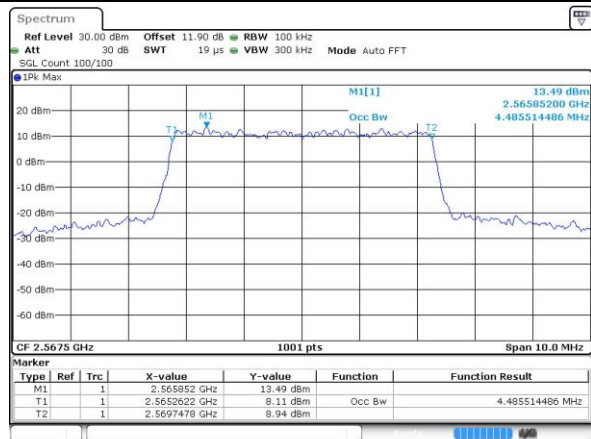
Date: 15 MAY 2019 22:11:54

Highest Channel / 5MHz / QPSK



Date: 15 MAY 2019 22:13:59

Highest Channel / 5MHz / 16QAM



Date: 15 MAY 2019 22:14:12