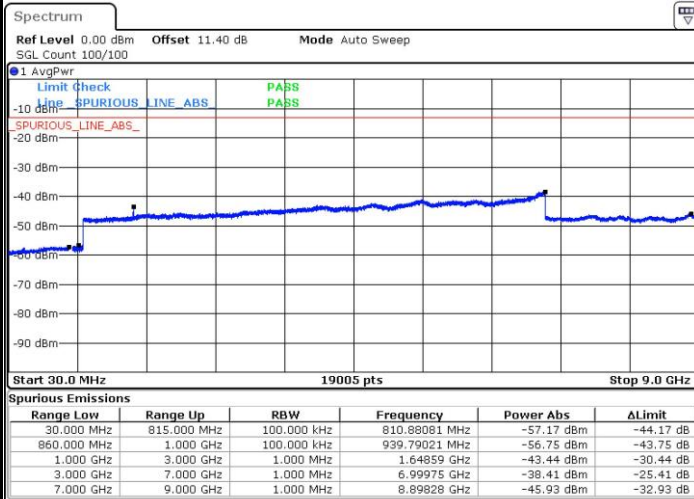




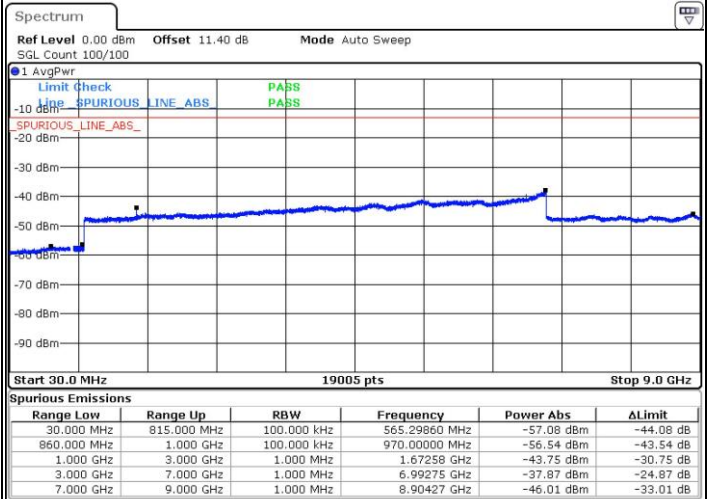
LTE Band 5 / 1.4MHz

Lowest Channel / 64QAM



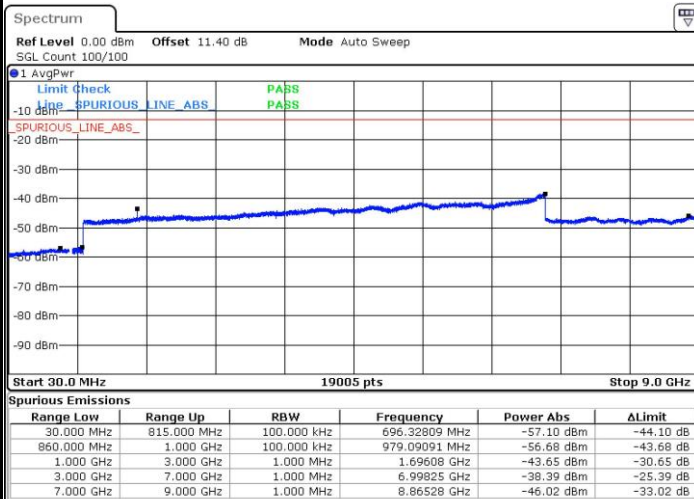
Date: 27.JUN.2019 03:47:01

Middle Channel / 64QAM



Date: 27.JUN.2019 03:48:25

Highest Channel / 64QAM

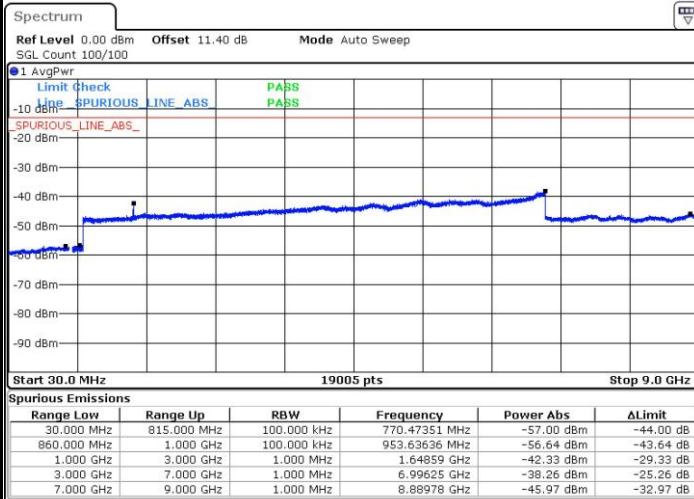


Date: 27.JUN.2019 03:53:08



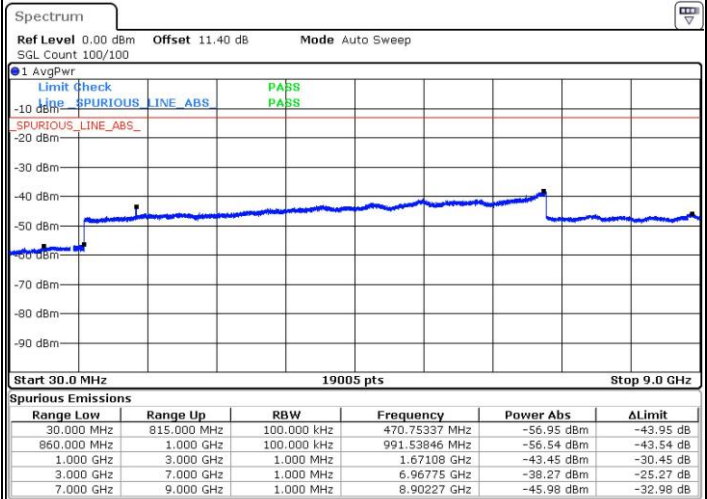
LTE Band 5 / 3MHz

Lowest Channel / 64QAM



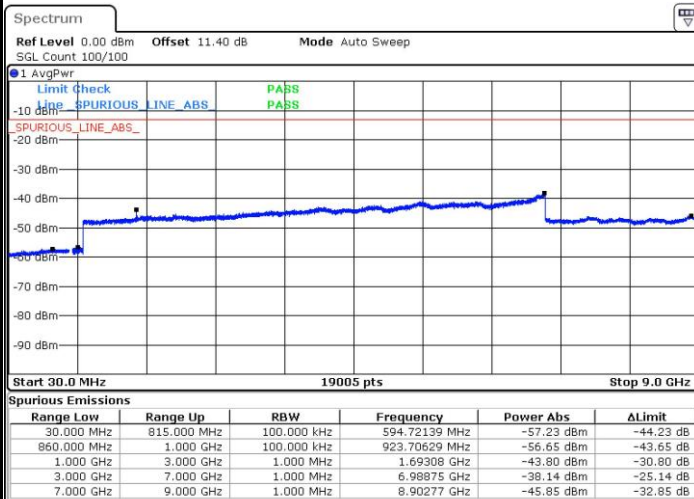
Date: 27.JUN.2019 03:14:28

Middle Channel / 64QAM



Date: 27.JUN.2019 03:15:53

Highest Channel / 64QAM

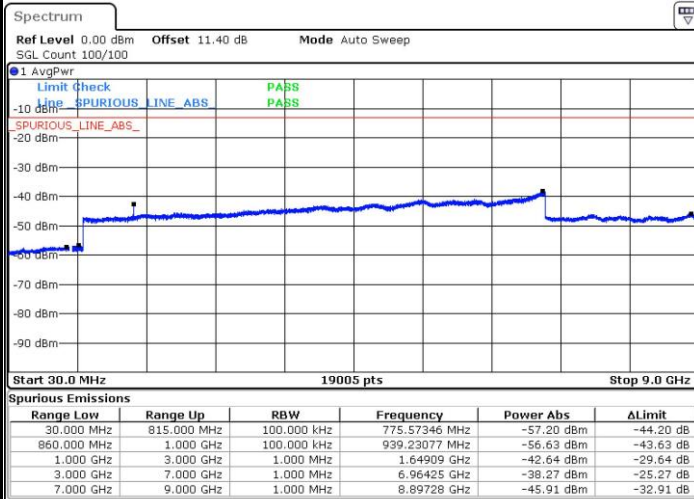


Date: 27.JUN.2019 03:20:36



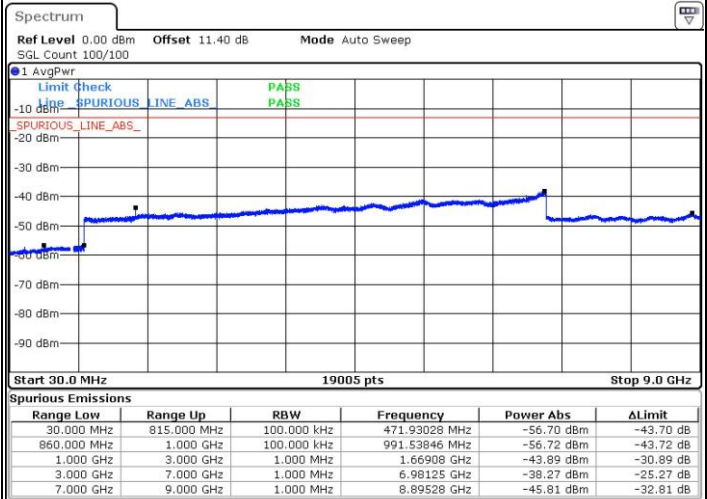
LTE Band 5 / 5MHz

Lowest Channel / 64QAM



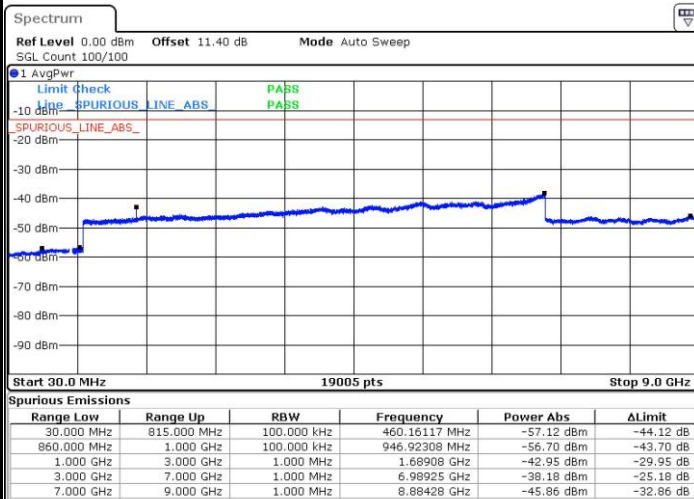
Date: 27.JUN.2019 03:25:19

Middle Channel / 64QAM



Date: 27.JUN.2019 03:26:44

Highest Channel / 64QAM

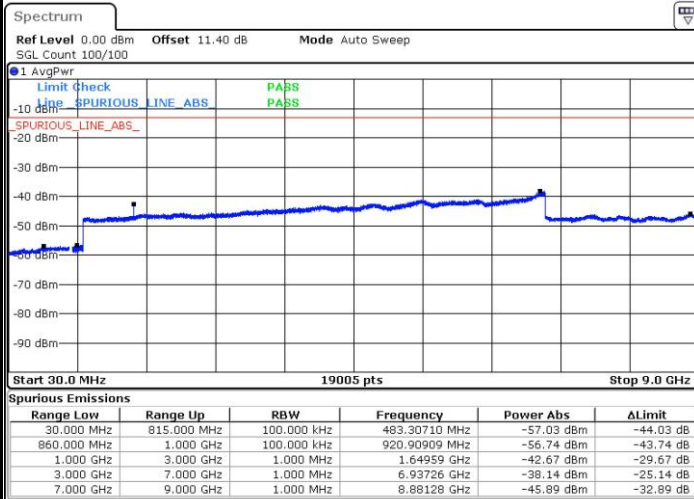


Date: 27.JUN.2019 03:31:27



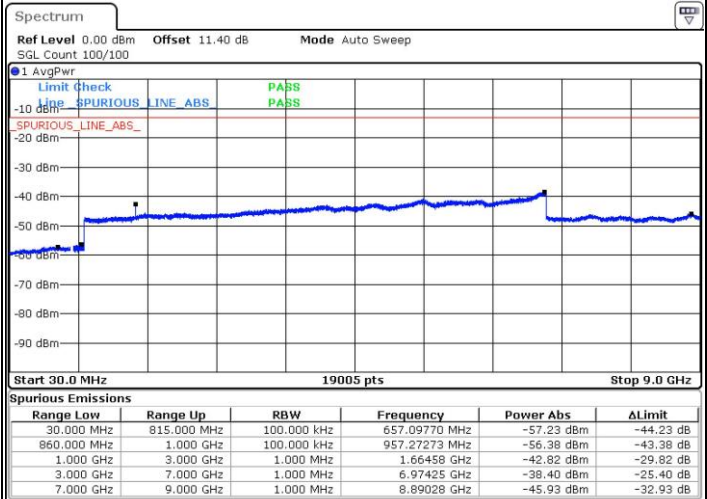
LTE Band 5 / 10MHz

Lowest Channel / 64QAM



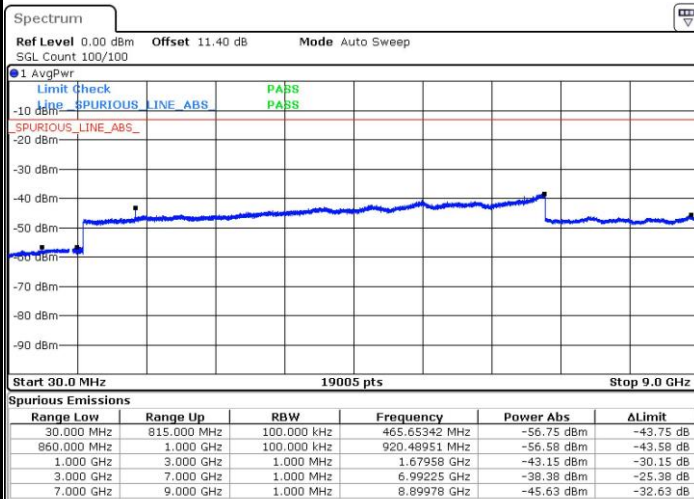
Date: 27.JUN.2019 03:36:10

Middle Channel / 64QAM



Date: 27.JUN.2019 03:37:35

Highest Channel / 64QAM



Date: 27.JUN.2019 03:42:18

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	0.0019	PASS
40	Normal Voltage	0.0045	
30	Normal Voltage	0.0057	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0004	
0	Normal Voltage	0.0041	
-10	Normal Voltage	0.0019	
-20	Normal Voltage	0.0071	
-30	Normal Voltage	0.0092	
20	Maximum Voltage	0.0055	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0139	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 7

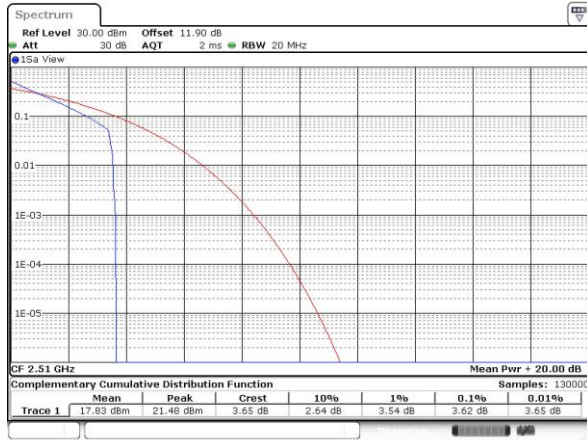
Peak-to-Average Ratio

Mode	LTE Band 7 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.62	4.35	5.22	5.8	PASS
Middle CH	3.68	4.64	5.22	6.06	
Highest CH	3.54	4.72	5.39	6.12	
Mode	LTE Band 7 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	7.04	6.32	-	-	PASS
Middle CH	7.22	6.55	-	-	
Highest CH	6.52	6.67	-	-	

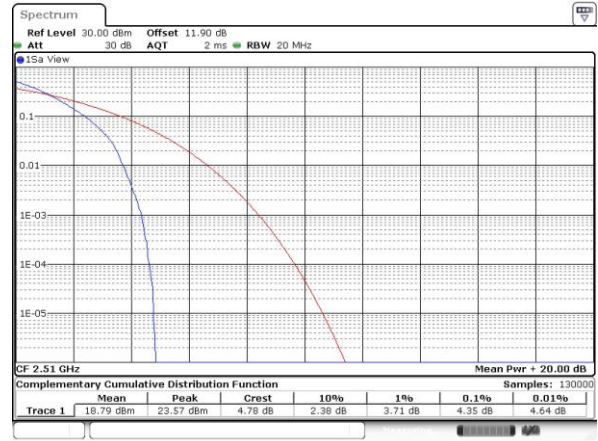


LTE Band 7 / 20MHz / QPSK

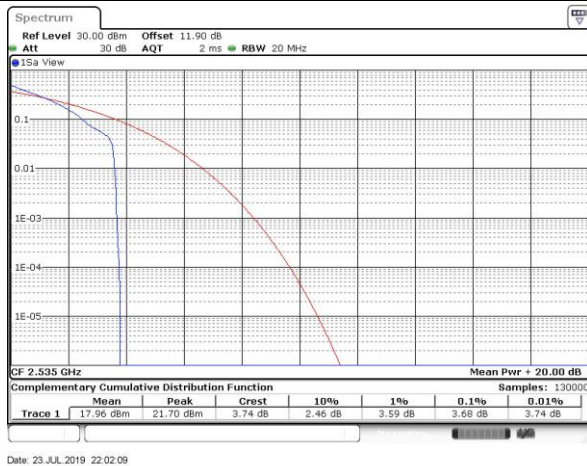
Lowest Channel / 1RB



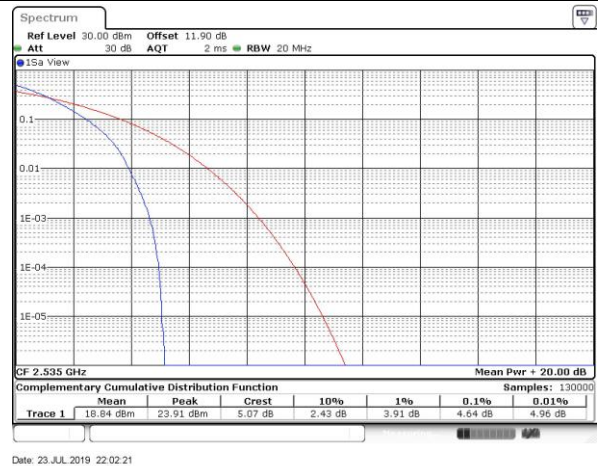
Lowest Channel / Full RB



Middle Channel / 1RB



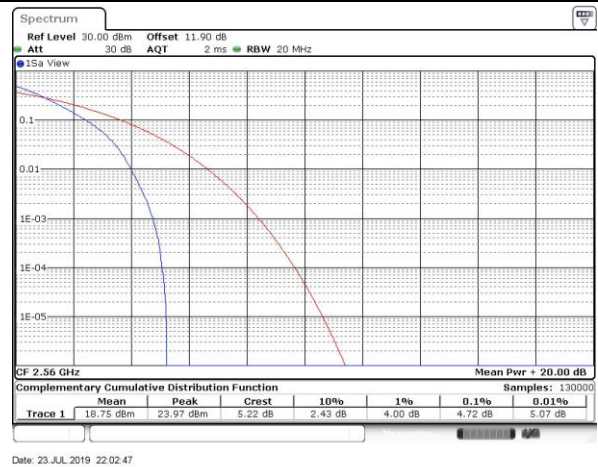
Middle Channel / Full RB



Highest Channel / 1RB



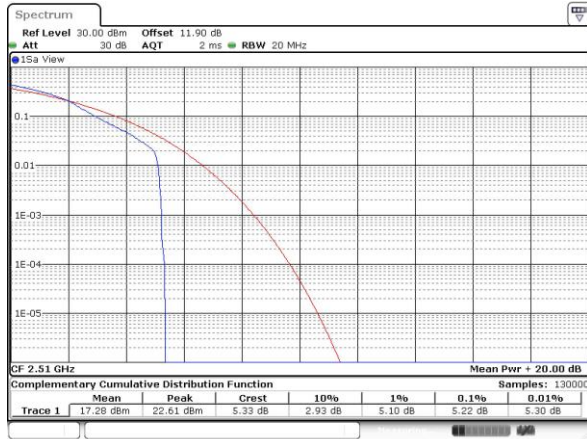
Highest Channel / Full RB



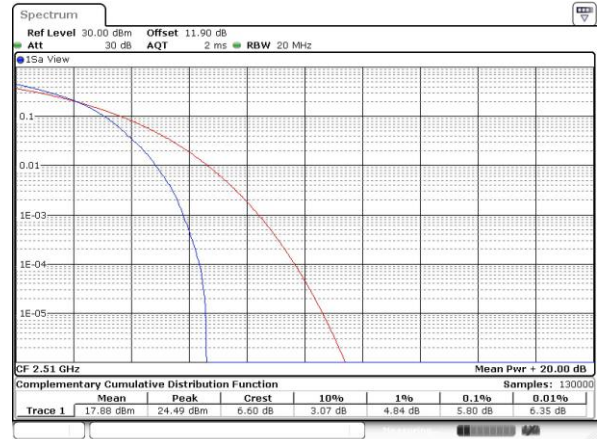


LTE Band 7 / 20MHz / 16QAM

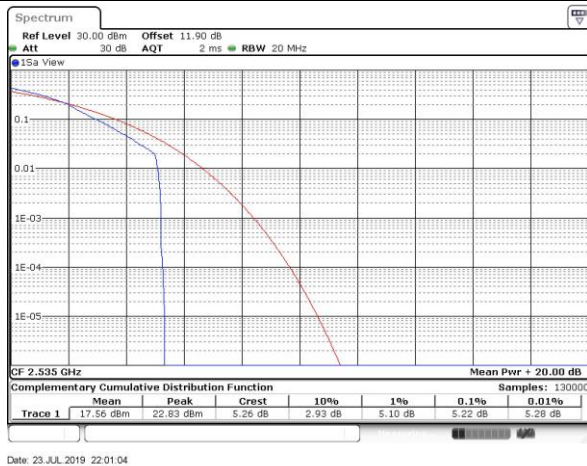
Lowest Channel / 1RB



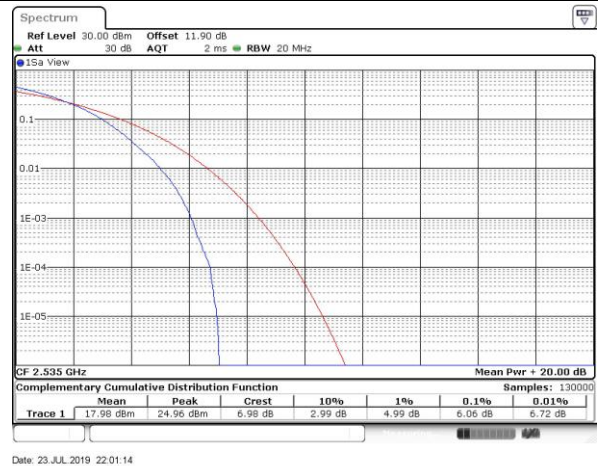
Lowest Channel / Full RB



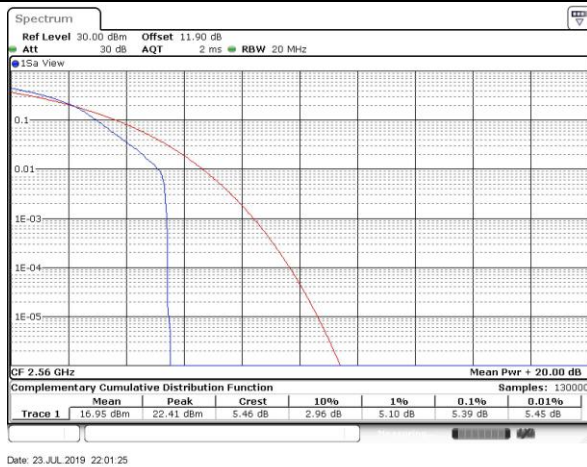
Middle Channel / 1RB



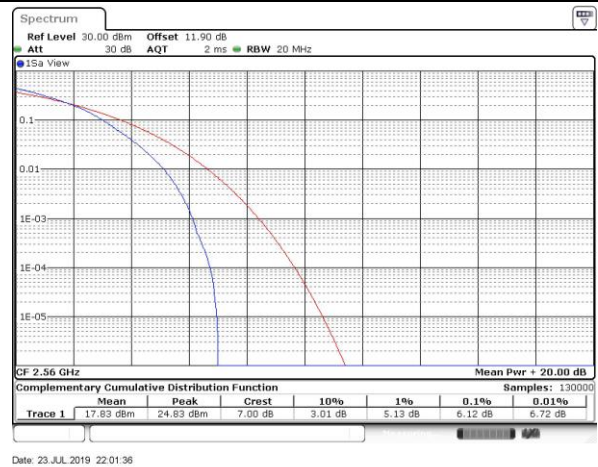
Middle Channel / Full RB



Highest Channel / 1RB



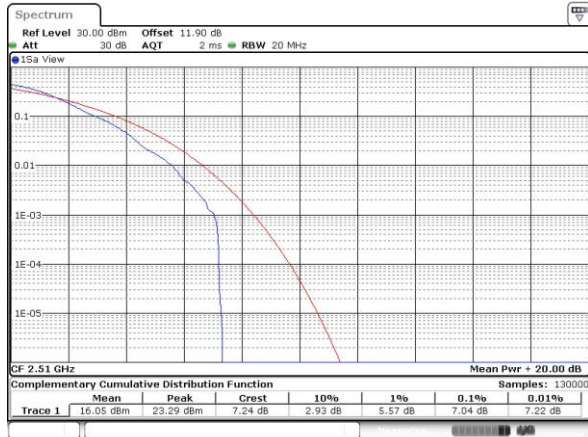
Highest Channel / Full RB



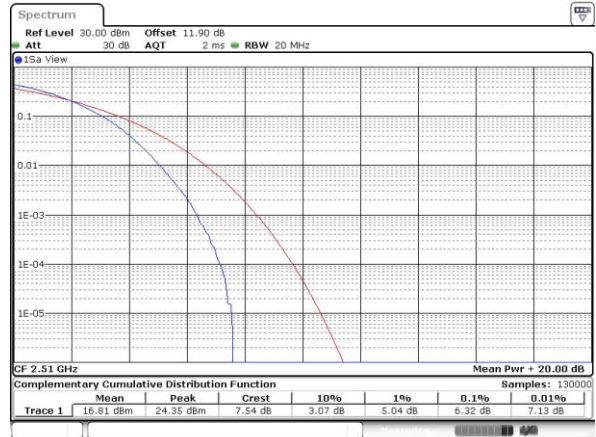


LTE Band 7 / 20MHz / 64QAM

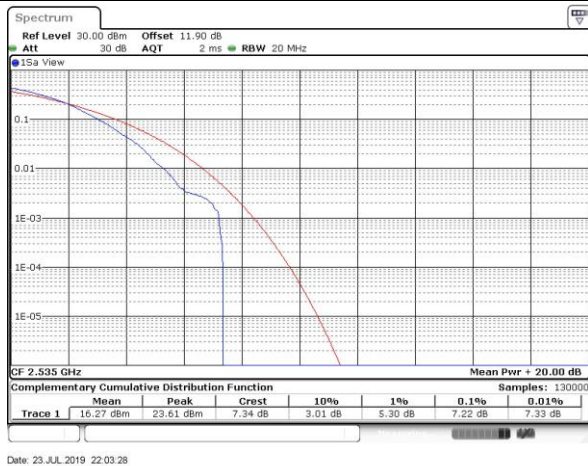
Lowest Channel / 1RB



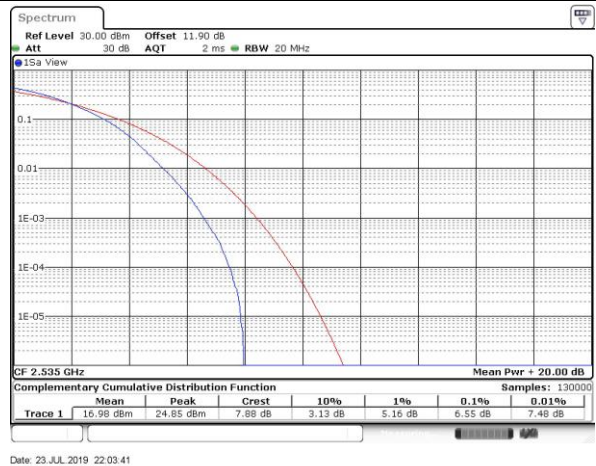
Lowest Channel / Full RB



Middle Channel / 1RB



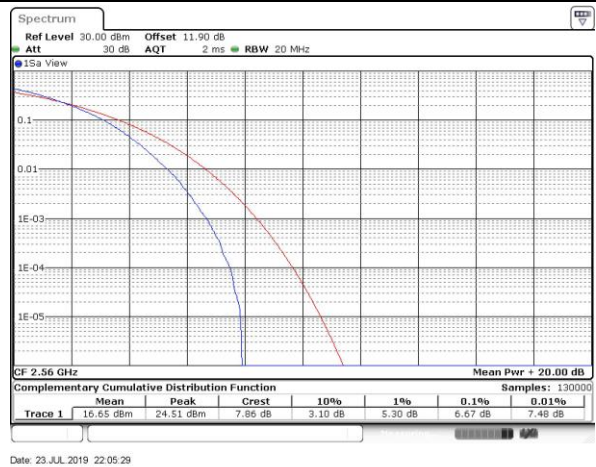
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB



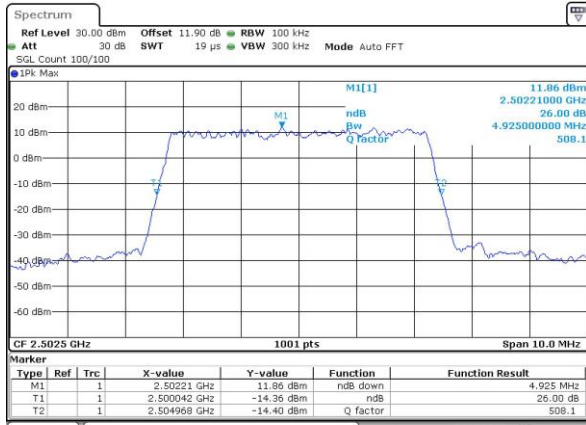
**26dB Bandwidth**

Mode	LTE Band 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	-	-	-	-	4.93	4.87	9.79	9.75	14.15	14.39	19.06	18.82
Middle CH	-	-	-	-	4.93	4.87	9.81	9.81	14.27	14.66	18.9	19.02
Highest CH	-	-	-	-	4.96	4.92	9.83	9.95	14.42	14.39	18.94	18.86
Mode	LTE Band 7 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.85	-	9.89	-	14.39	-	18.98	-
Middle CH	-	-	-	-	4.96	-	9.69	-	14.51	-	19.14	-
Highest CH	-	-	-	-	4.89	-	9.79	-	14.21	-	19.02	-

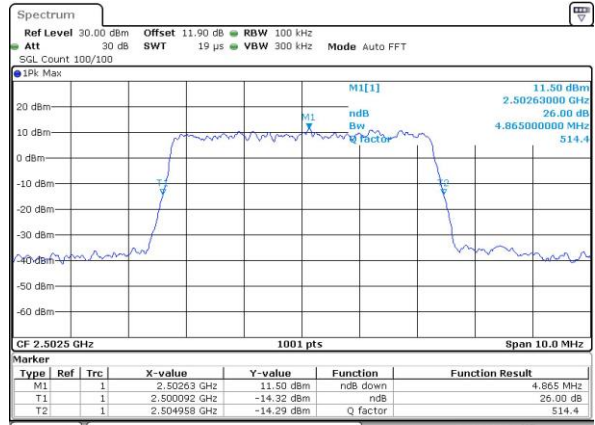


LTE Band 7

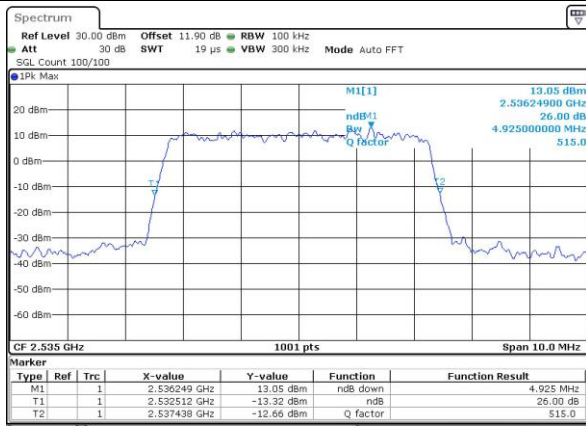
Lowest Channel / 5MHz / QPSK



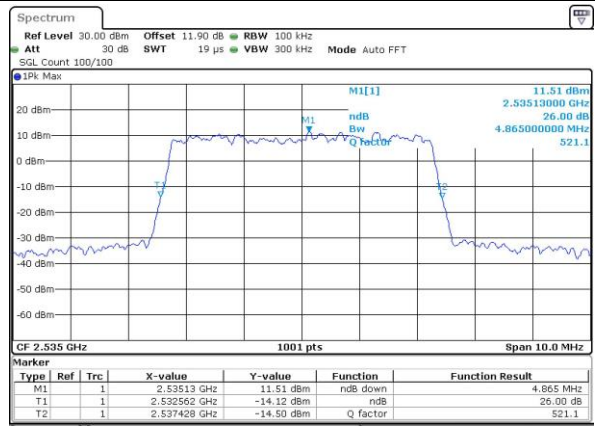
Lowest Channel / 5MHz / 16QAM



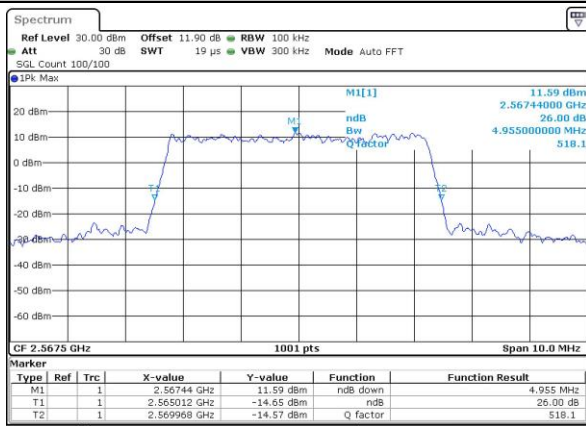
Middle Channel / 5MHz / QPSK



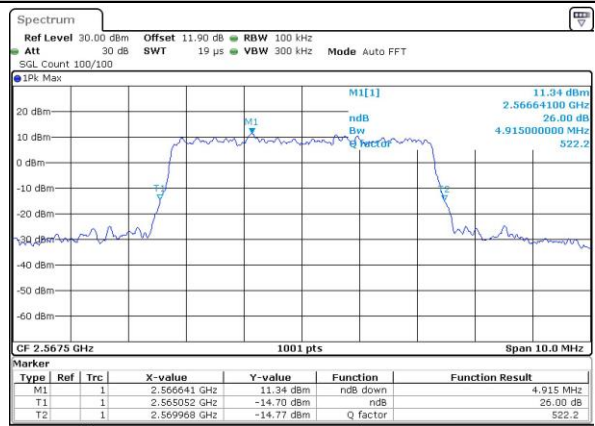
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



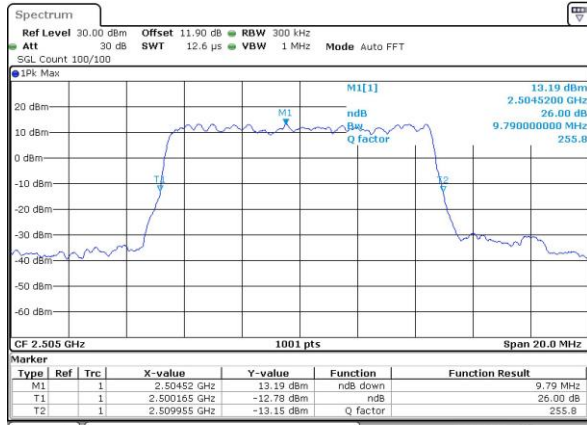
Highest Channel / 5MHz / 16QAM



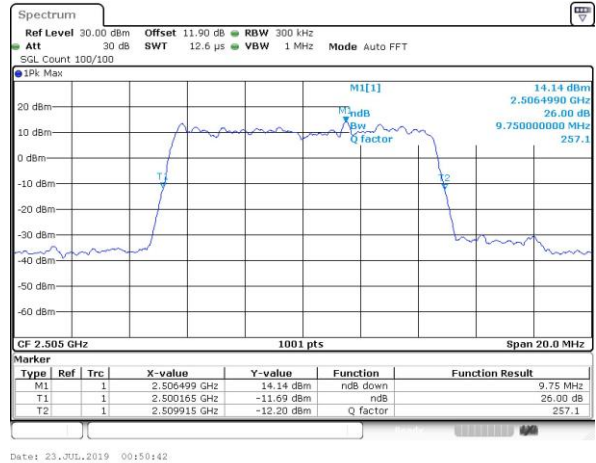


LTE Band 7

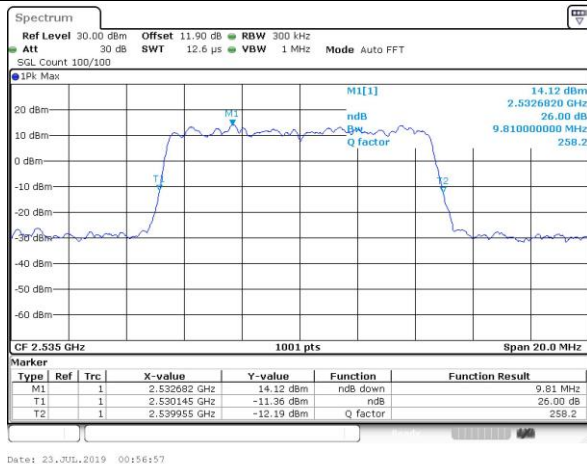
Lowest Channel / 10MHz / QPSK



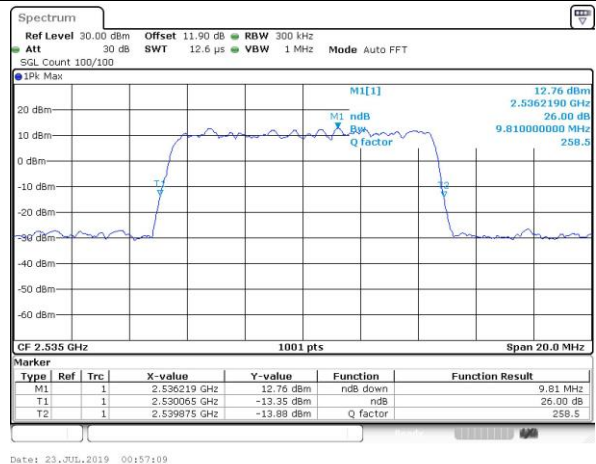
Lowest Channel / 10MHz / 16QAM



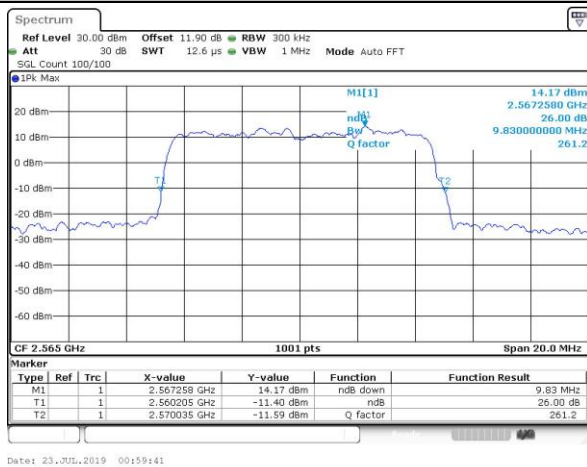
Middle Channel / 10MHz / QPSK



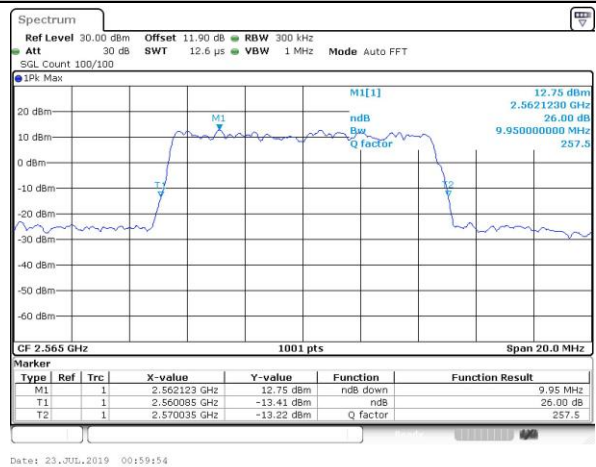
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



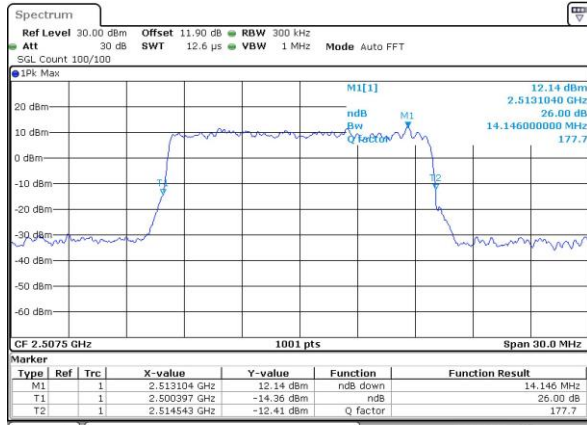
Highest Channel / 10MHz / 16QAM





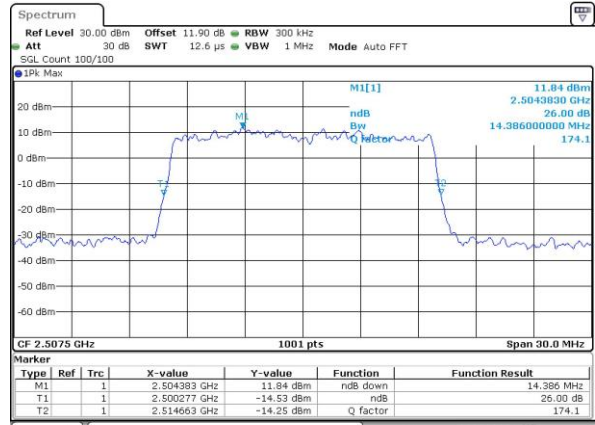
LTE Band 7

Lowest Channel / 15MHz / QPSK



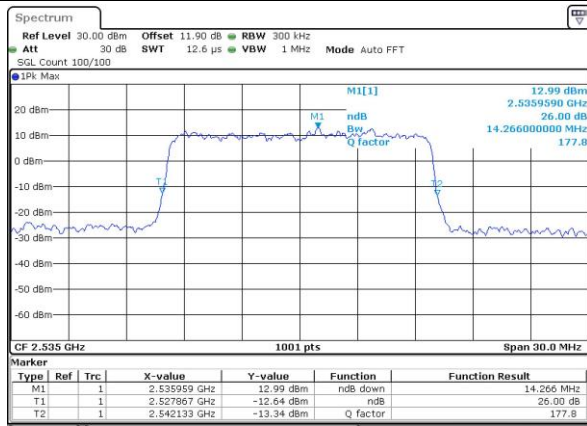
Date: 23.JUL.2019 01:14:01

Lowest Channel / 15MHz / 16QAM



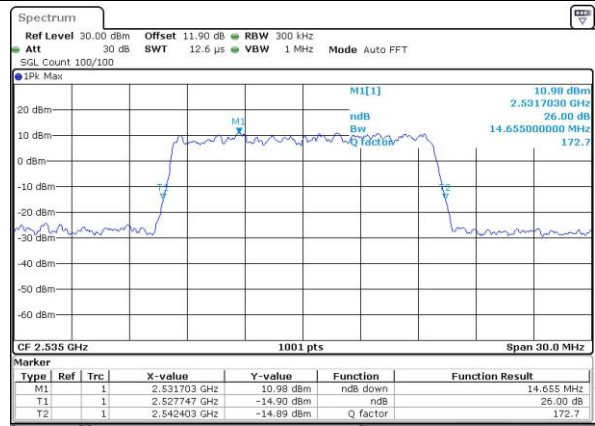
Date: 23.JUL.2019 01:14:13

Middle Channel / 15MHz / QPSK



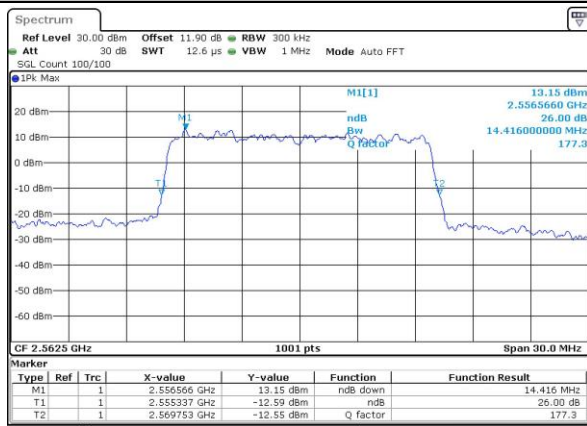
Date: 23.JUL.2019 01:20:28

Middle Channel / 15MHz / 16QAM



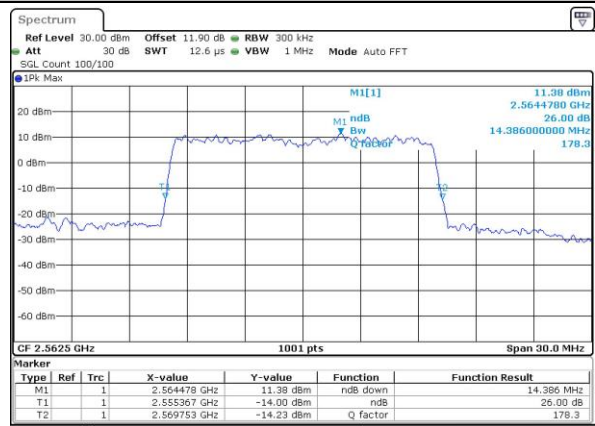
Date: 23.JUL.2019 01:20:40

Highest Channel / 15MHz / QPSK



Date: 23.JUL.2019 01:23:12

Highest Channel / 15MHz / 16QAM

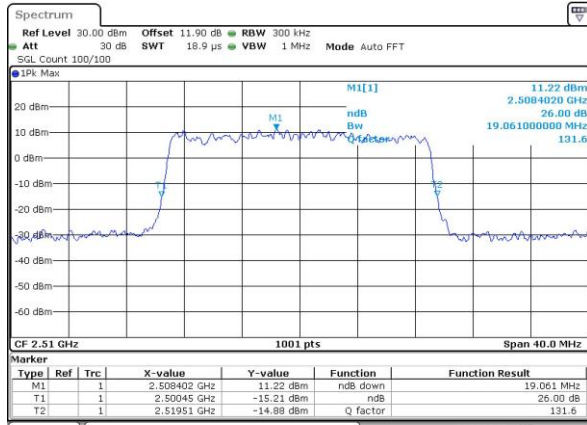


Date: 23.JUL.2019 01:23:24



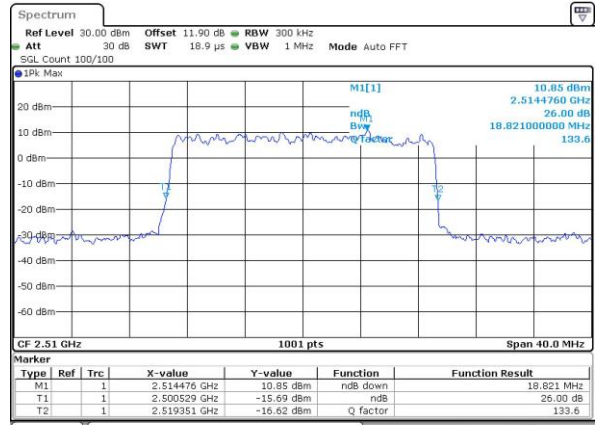
LTE Band 7

Lowest Channel / 20MHz / QPSK



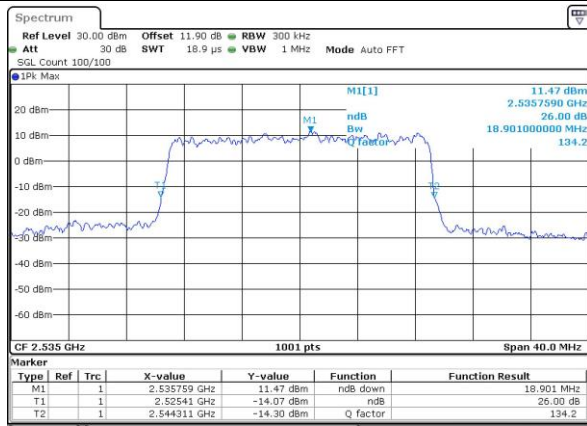
Date: 23.JUL.2019 01:38:04

Lowest Channel / 20MHz / 16QAM



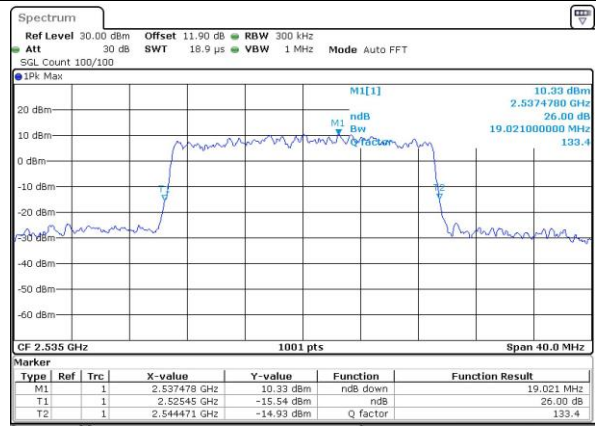
Date: 23.JUL.2019 01:38:16

Middle Channel / 20MHz / QPSK



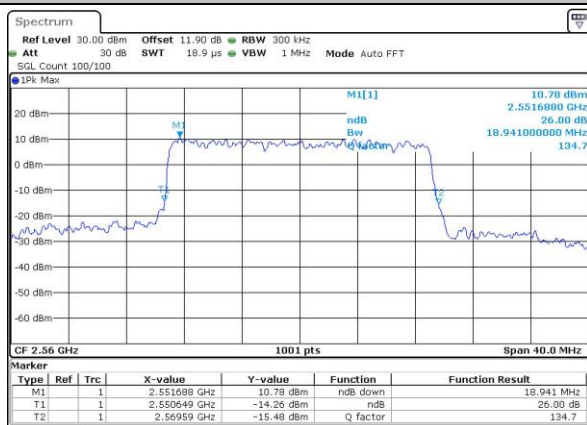
Date: 23.JUL.2019 01:44:31

Middle Channel / 20MHz / 16QAM



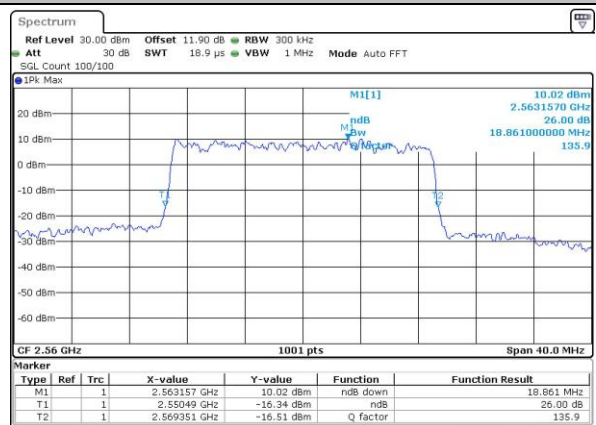
Date: 23.JUL.2019 01:44:43

Highest Channel / 20MHz / QPSK



Date: 23.JUL.2019 01:47:16

Highest Channel / 20MHz / 16QAM

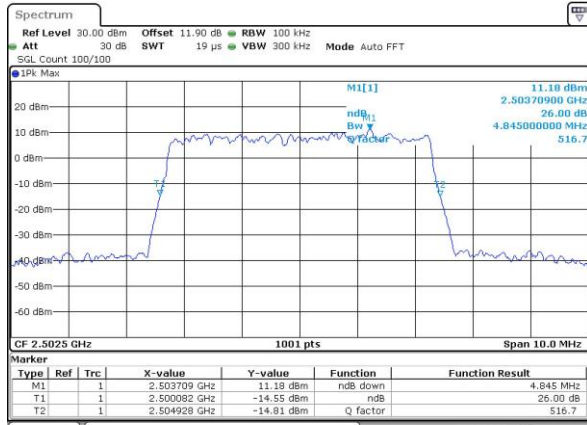


Date: 23.JUL.2019 01:47:28



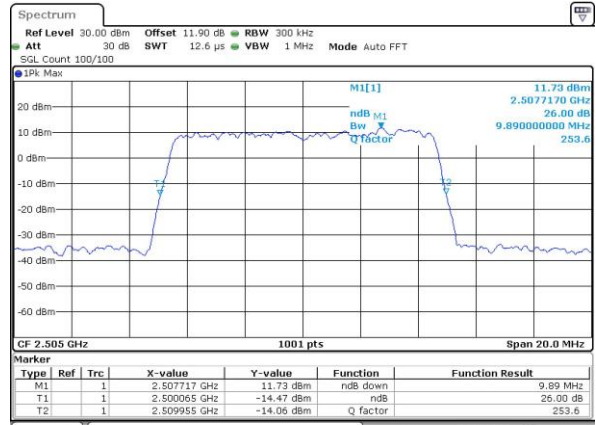
LTE Band 7

Lowest Channel / 5MHz / 64QAM



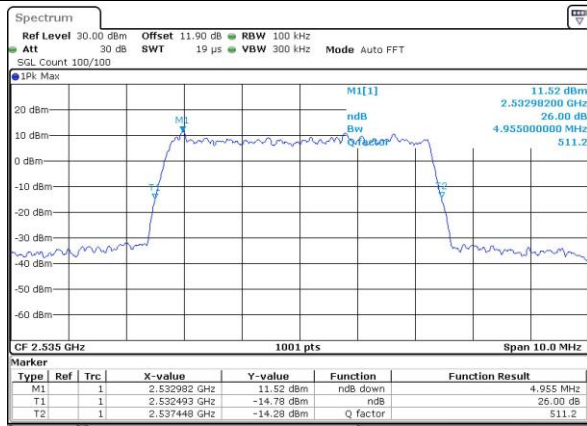
Date: 23.JUL.2019 00:42:27

Lowest Channel / 10MHz / 64QAM



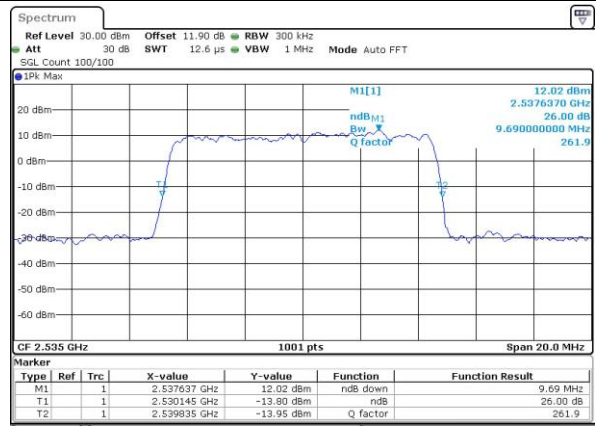
Date: 23.JUL.2019 01:05:58

Middle Channel / 5MHz / 64QAM



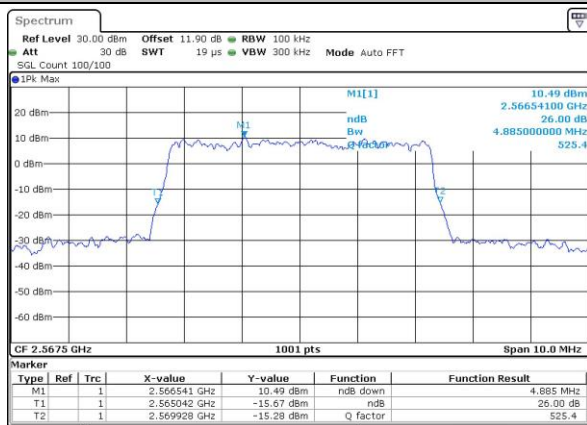
Date: 23.JUL.2019 00:45:40

Middle Channel / 10MHz / 64QAM



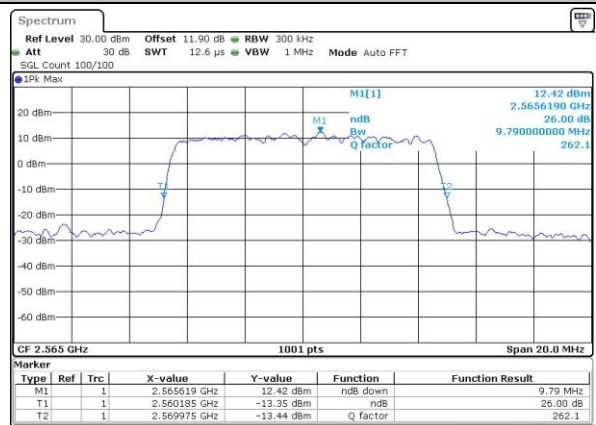
Date: 23.JUL.2019 01:09:11

Highest Channel / 5MHz / 64QAM



Date: 23.JUL.2019 00:47:02

Highest Channel / 10MHz / 64QAM

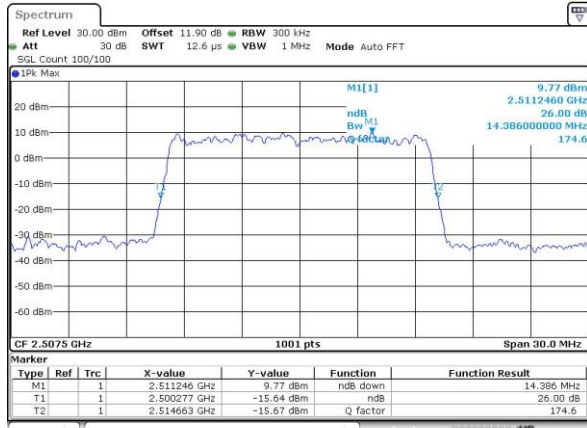


Date: 23.JUL.2019 01:10:33



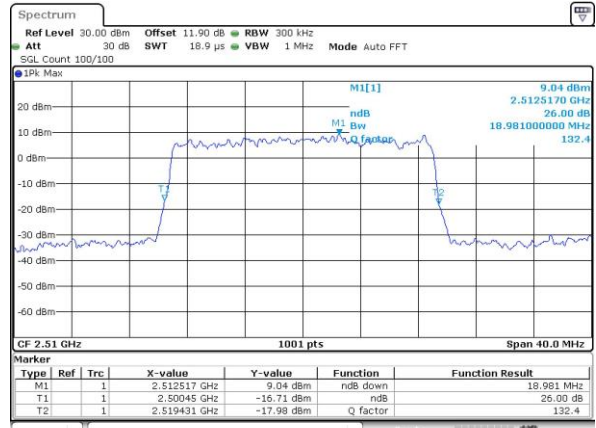
LTE Band 7

Lowest Channel / 15MHz / 64QAM



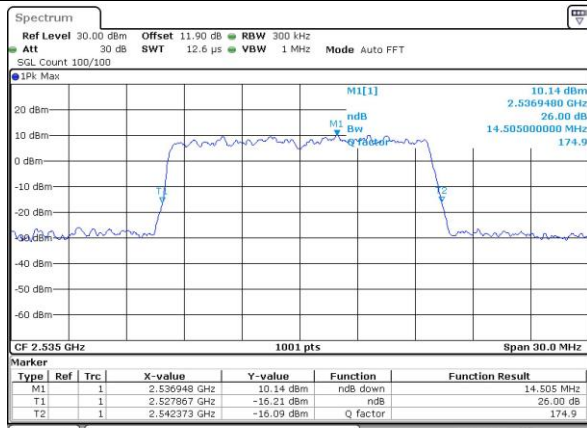
Date: 23.JUL.2019 01:29:28

Lowest Channel / 20MHz / 64QAM



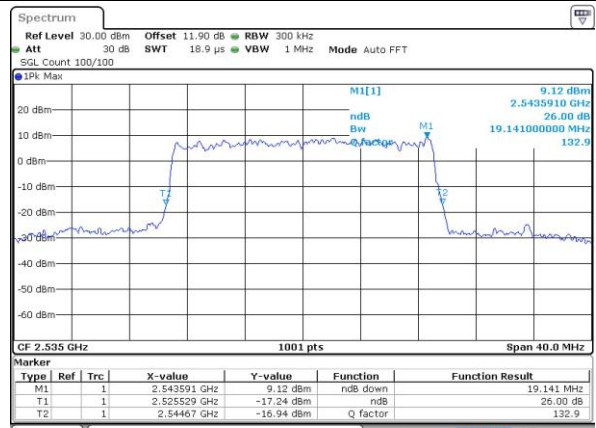
Date: 23.JUL.2019 01:53:32

Middle Channel / 15MHz / 64QAM



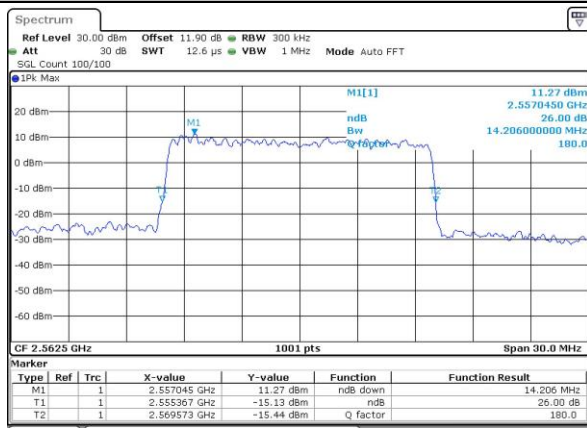
Date: 23.JUL.2019 01:32:40

Middle Channel / 20MHz / 64QAM



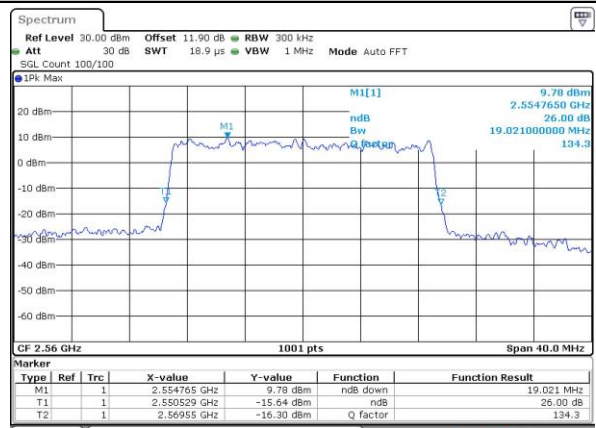
Date: 23.JUL.2019 21:56:32

Highest Channel / 15MHz / 64QAM



Date: 23.JUL.2019 01:34:02

Highest Channel / 20MHz / 64QAM



Date: 23.JUL.2019 21:57:46

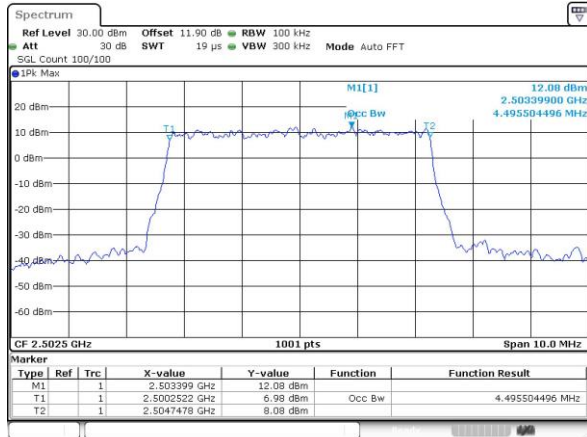
**Occupied Bandwidth**

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	-	-	-	-	4.5	4.5	9.07	9.01	13.43	13.43	17.82	17.9
Middle CH	-	-	-	-	4.48	4.49	8.99	8.99	13.43	13.46	17.82	17.9
Highest CH	-	-	-	-	4.48	4.51	9.07	9.05	13.46	13.52	17.94	18.02
Mode	LTE Band 7 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.50	-	9.01	-	13.34	-	17.86	-
Middle CH	-	-	-	-	4.51	-	9.01	-	13.43	-	17.90	-
Highest CH	-	-	-	-	4.49	-	9.05	-	13.40	-	17.86	-

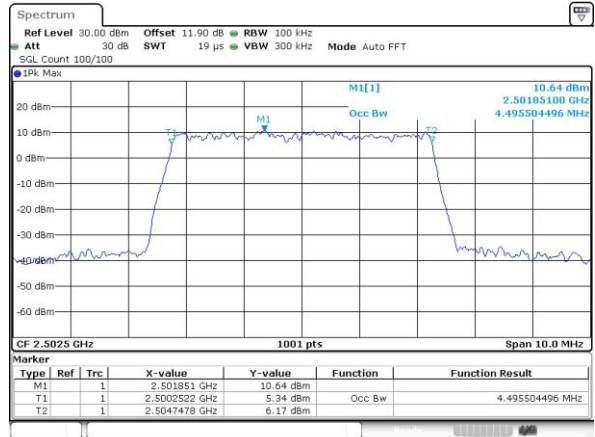


LTE Band 7

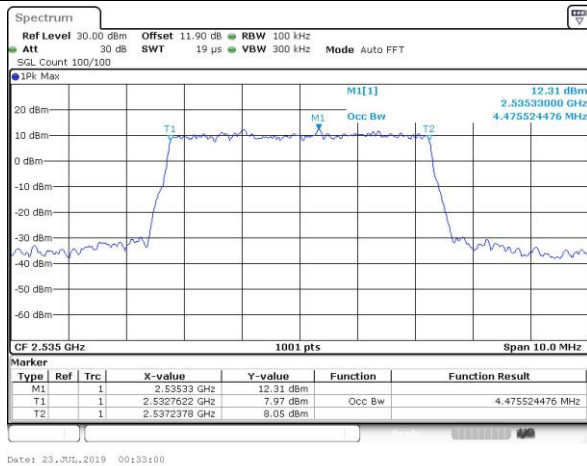
Lowest Channel / 5MHz / QPSK



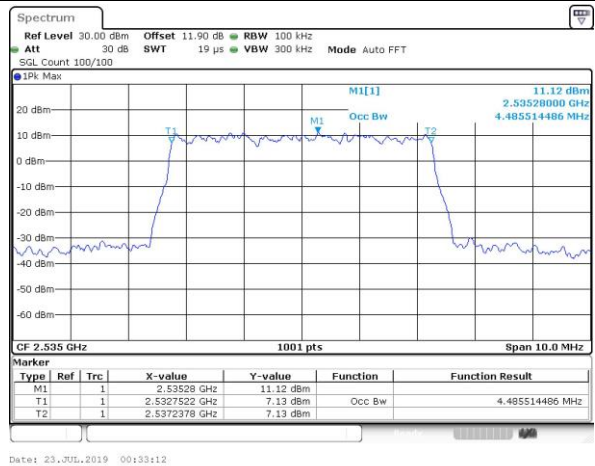
Lowest Channel / 5MHz / 16QAM



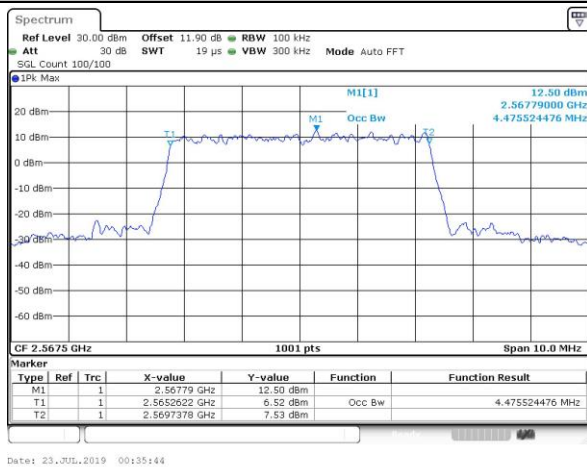
Middle Channel / 5MHz / QPSK



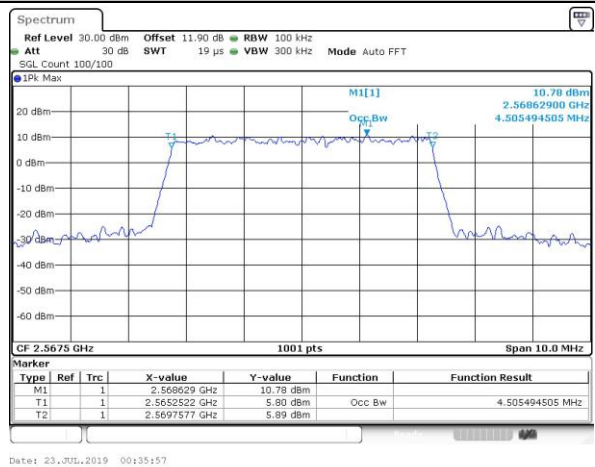
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



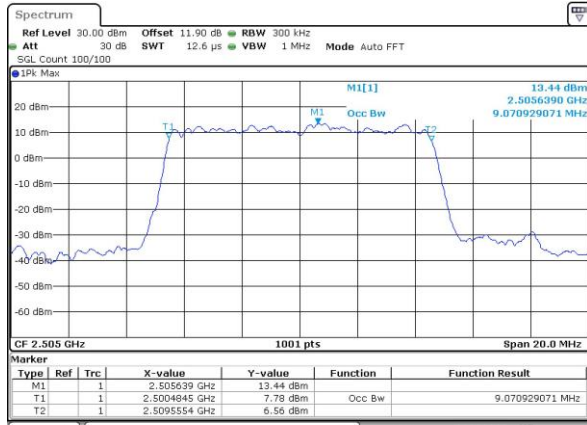
Highest Channel / 5MHz / 16QAM





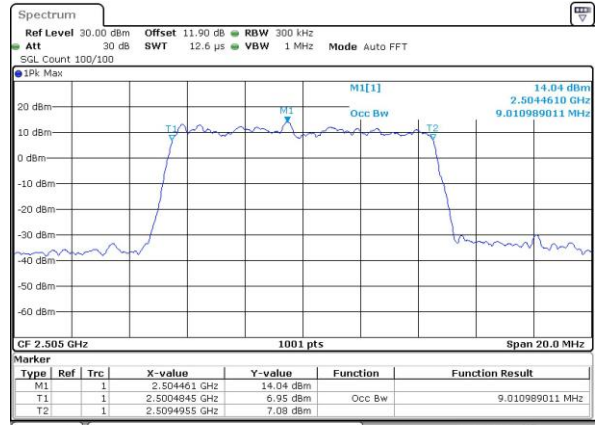
LTE Band 7

Lowest Channel / 10MHz / QPSK



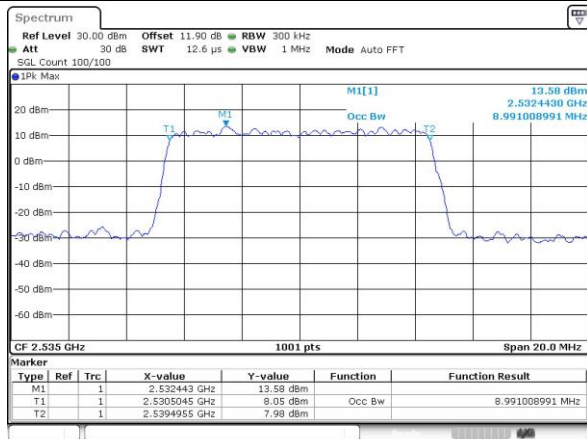
Date: 23.JUL.2019 00:50:05

Lowest Channel / 10MHz / 16QAM



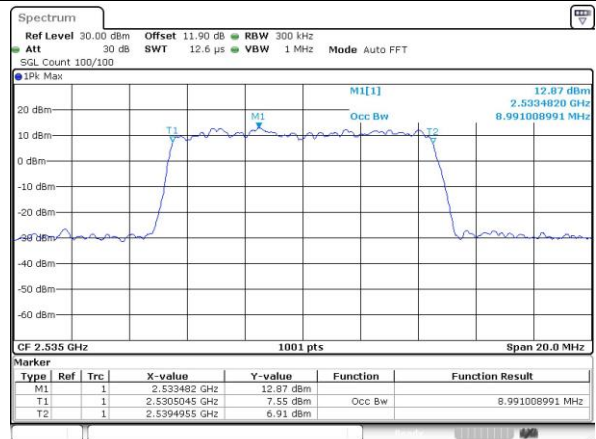
Date: 23.JUL.2019 00:50:17

Middle Channel / 10MHz / QPSK



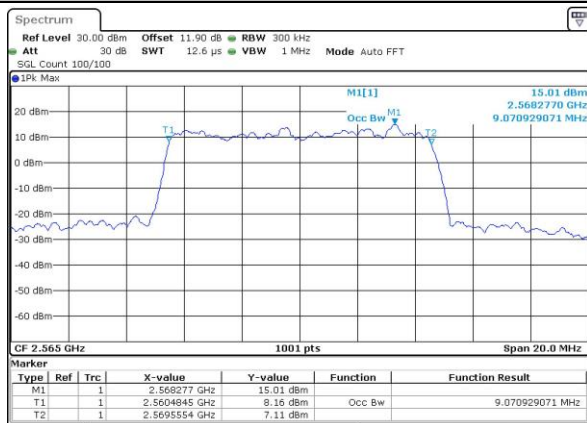
Date: 23.JUL.2019 00:56:33

Middle Channel / 10MHz / 16QAM



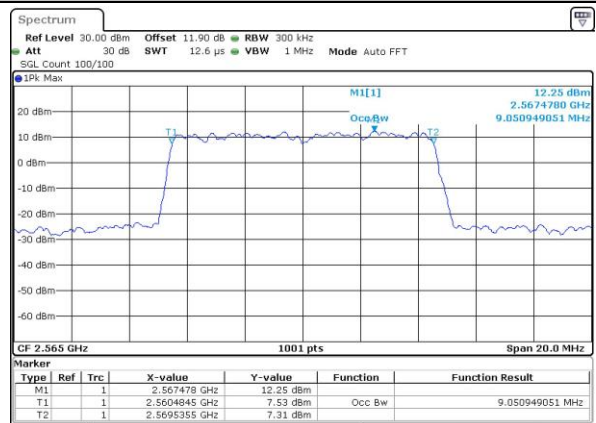
Date: 23.JUL.2019 00:56:45

Highest Channel / 10MHz / QPSK



Date: 23.JUL.2019 00:59:16

Highest Channel / 10MHz / 16QAM

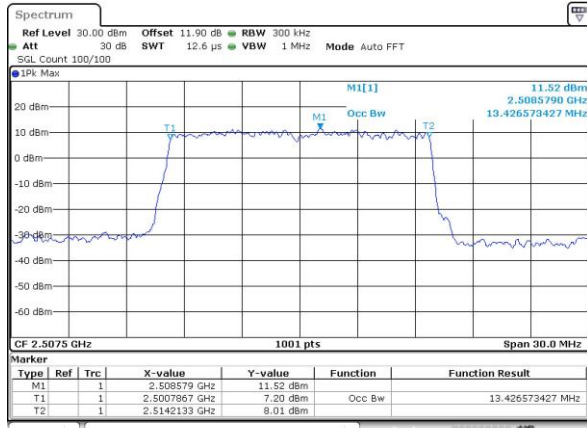


Date: 23.JUL.2019 00:59:29



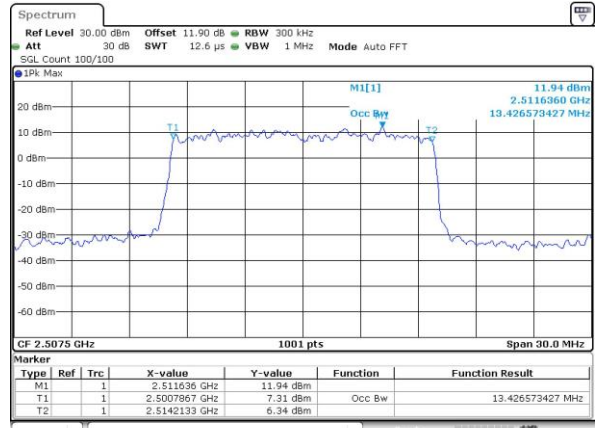
LTE Band 7

Lowest Channel / 15MHz / QPSK



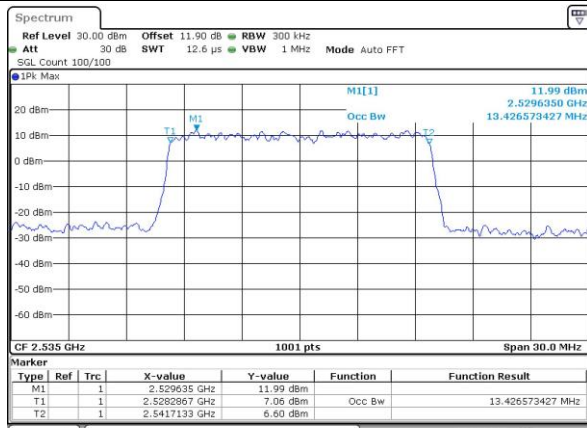
Date: 23.JUL.2019 01:13:36

Lowest Channel / 15MHz / 16QAM



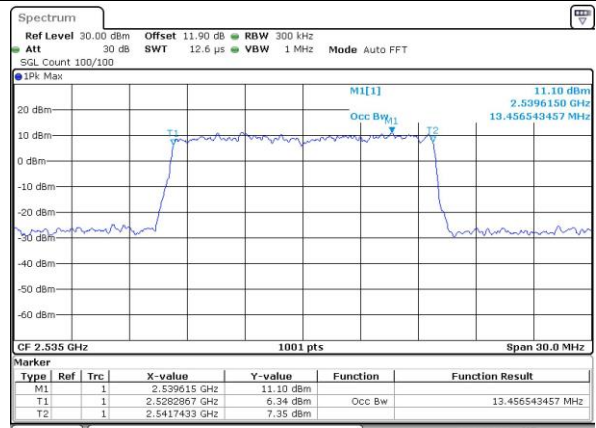
Date: 23.JUL.2019 01:13:48

Middle Channel / 15MHz / QPSK



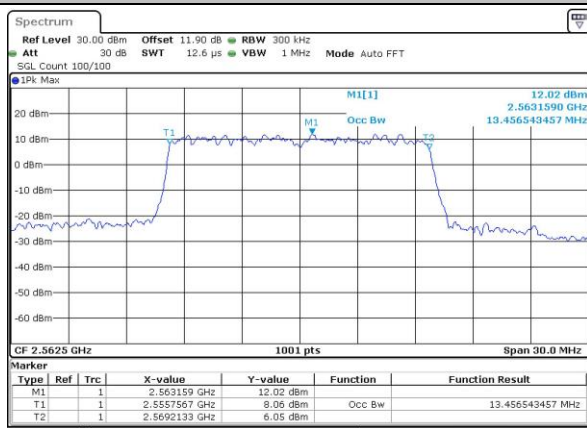
Date: 23.JUL.2019 01:20:04

Middle Channel / 15MHz / 16QAM



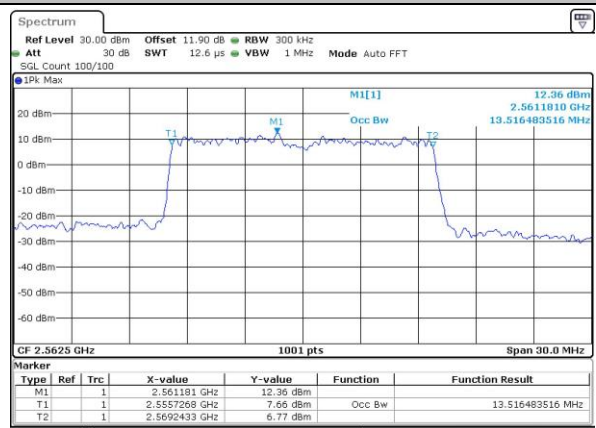
Date: 23.JUL.2019 01:20:16

Highest Channel / 15MHz / QPSK



Date: 23.JUL.2019 01:22:47

Highest Channel / 15MHz / 16QAM

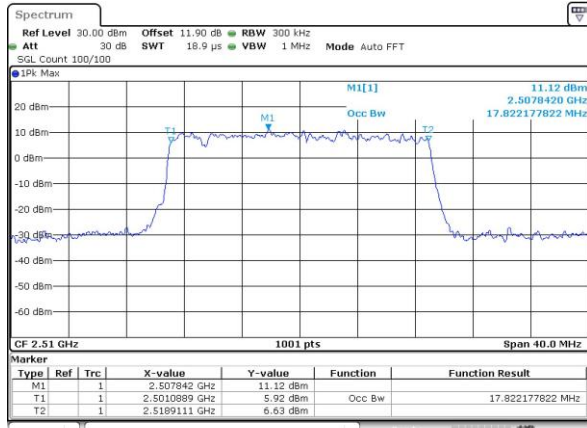


Date: 23.JUL.2019 01:22:59



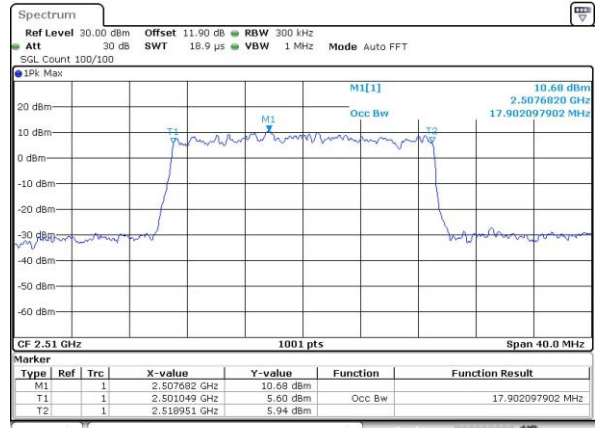
LTE Band 7

Lowest Channel / 20MHz / QPSK



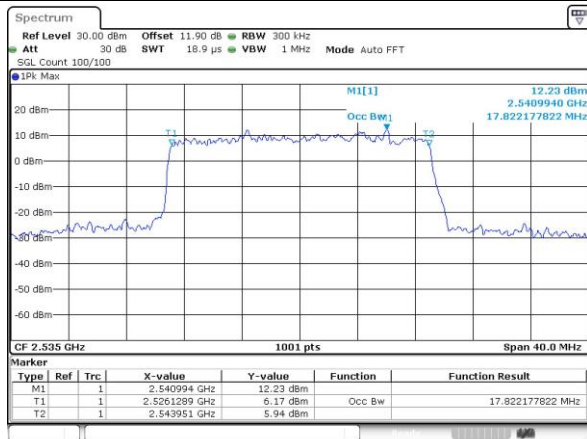
Date: 23.JUL.2019 01:37:05

Lowest Channel / 20MHz / 16QAM



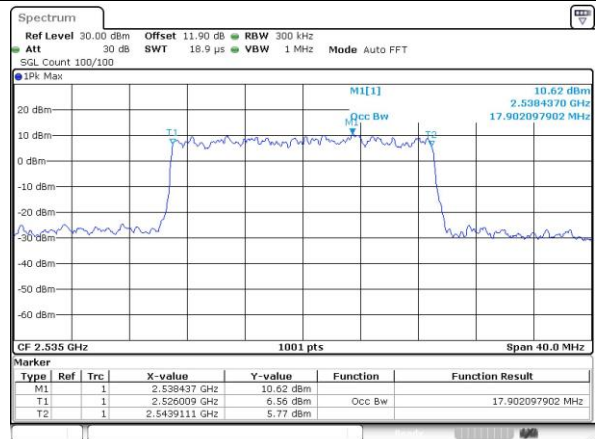
Date: 23.JUL.2019 01:37:17

Middle Channel / 20MHz / QPSK



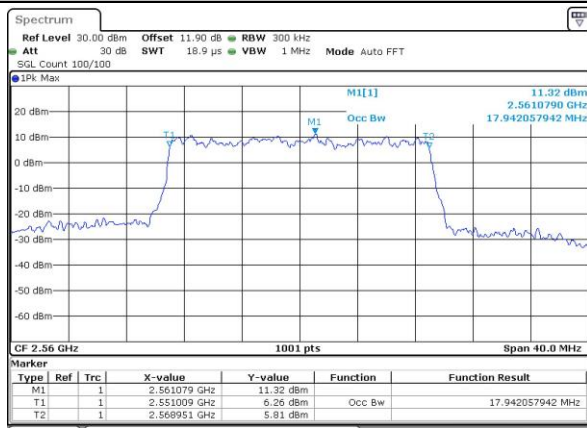
Date: 23.JUL.2019 01:44:07

Middle Channel / 20MHz / 16QAM



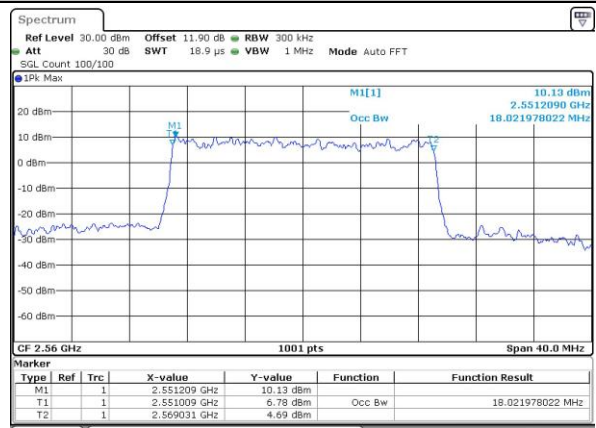
Date: 23.JUL.2019 01:44:20

Highest Channel / 20MHz / QPSK



Date: 23.JUL.2019 01:46:51

Highest Channel / 20MHz / 16QAM



Date: 23.JUL.2019 01:47:03