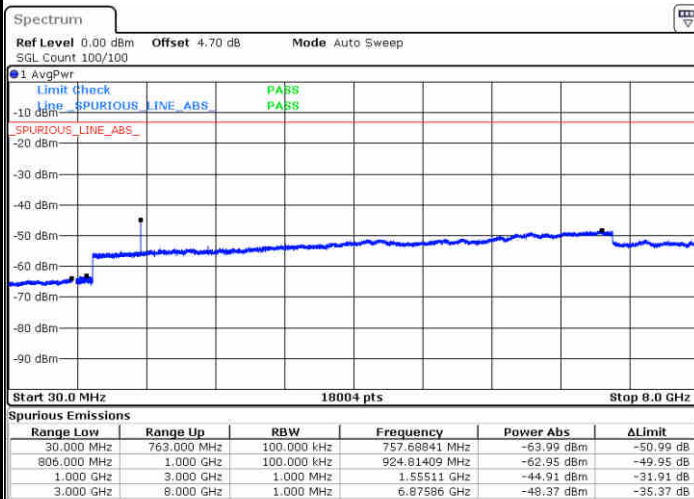




Conducted Spurious Emission

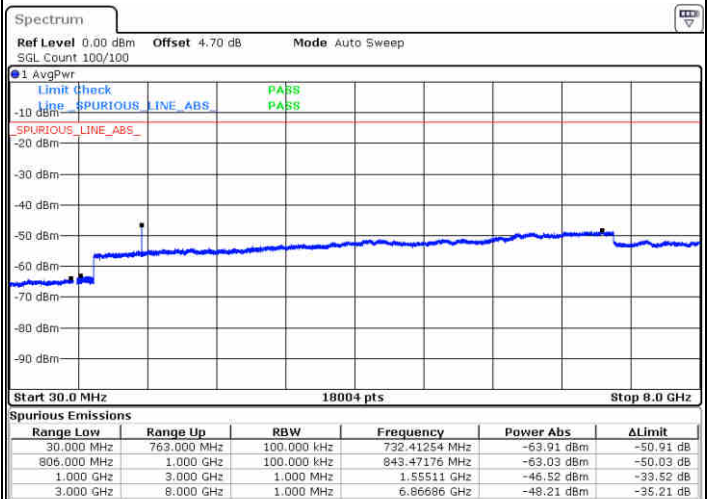
LTE Band 13 / 5MHz

Lowest Channel / QPSK



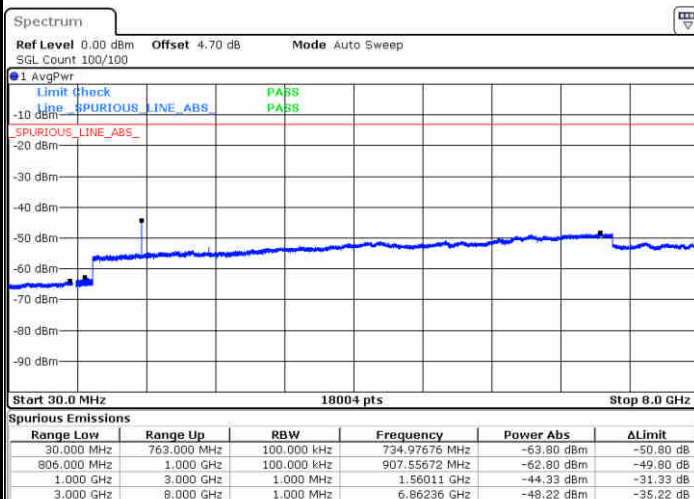
Date: 4 FEB 2020 08:54:58

Lowest Channel / 16QAM



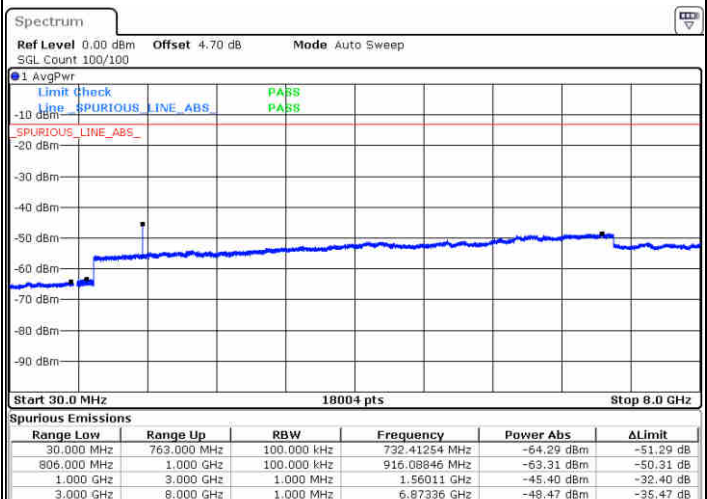
Date: 4 FEB 2020 08:54:03

Middle Channel / QPSK



Date: 4 FEB 2020 08:56:33

Middle Channel / 16QAM

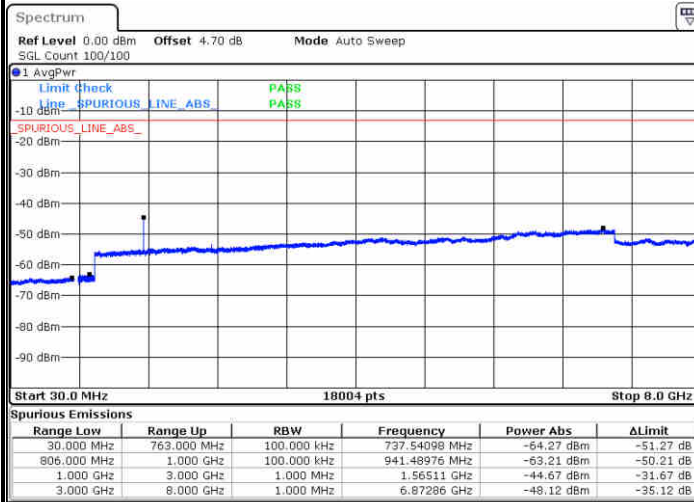


Date: 4 FEB 2020 08:57:27



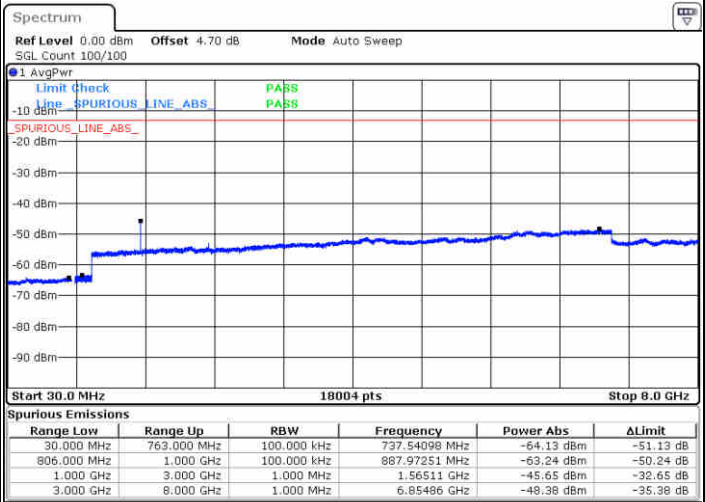
LTE Band 13 / 5MHz

Highest Channel / QPSK



Date: 4 FEB 2020 09:05:27

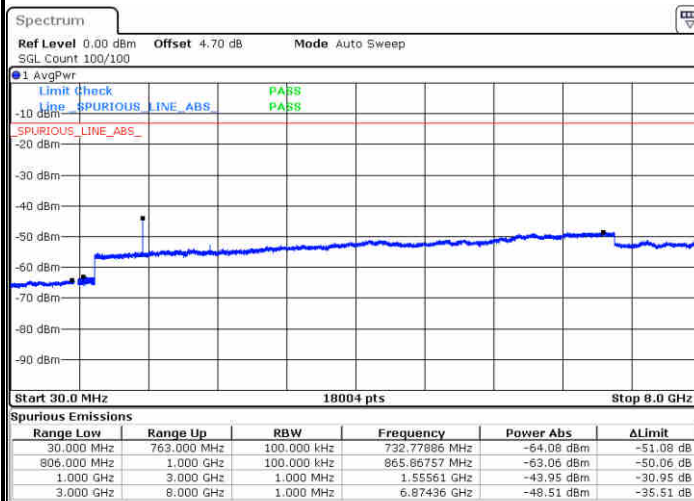
Highest Channel / 16QAM



Date: 4 FEB 2020 09:05:32

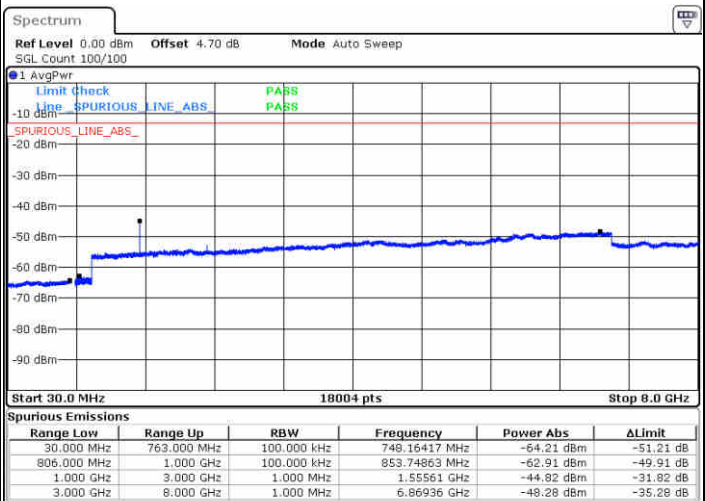
LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 4 FEB 2020 09:07:21

Middle Channel / 16QAM

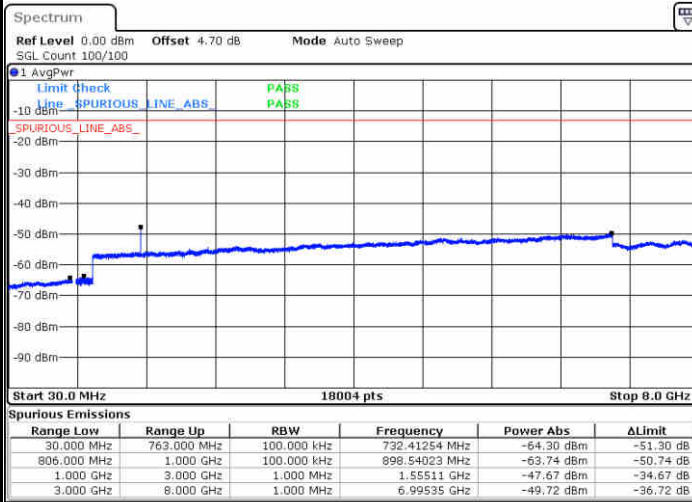


Date: 4 FEB 2020 09:08:16



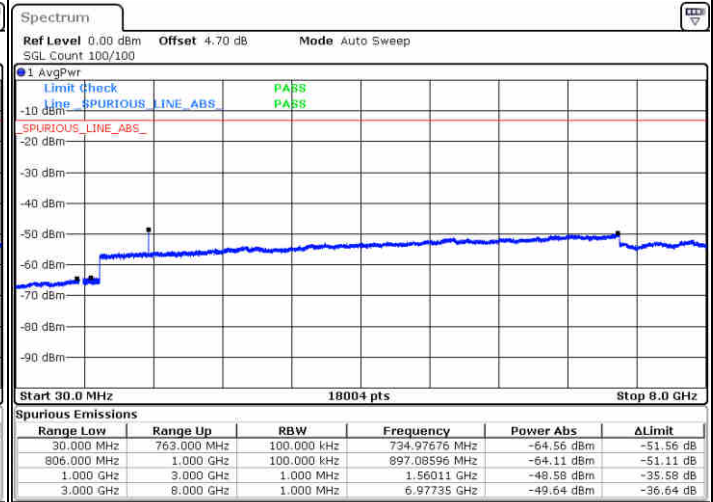
LTE Band 13 / 5MHz

Lowest Channel / 64QAM



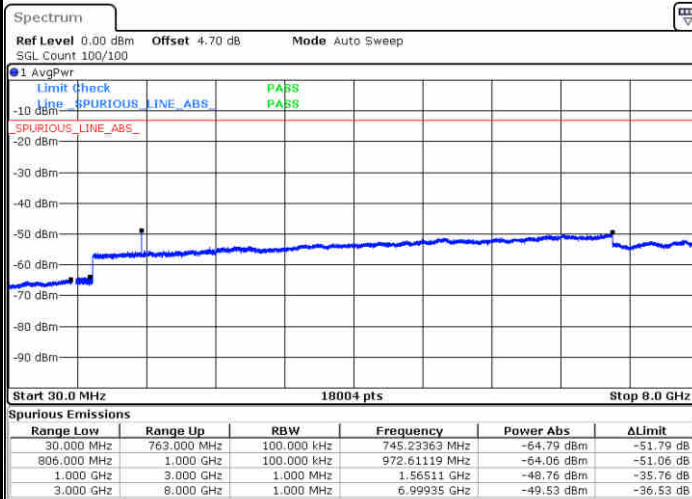
Date: 10 MAR 2020 21:39:41

Middle Channel / 64QAM



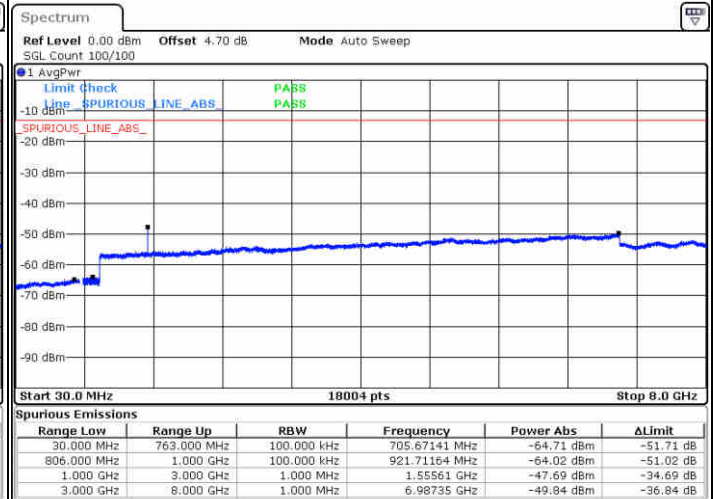
Date: 10 MAR 2020 21:40:35

Highest Channel / 64QAM



Date: 10 MAR 2020 21:41:29

LTE Band 13 / 10MHz / Middle Channel / 64QAM



Date: 10 MAR 2020 21:47:35

Frequency Stability

Test Conditions		LTE Band 13 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0041	PASS
40	Normal Voltage	0.0001	
30	Normal Voltage	0.0036	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0005	
0	Normal Voltage	0.0014	
-10	Normal Voltage	0.0074	
-20	Normal Voltage	0.0006	
-30	Normal Voltage	0.0026	
20	Maximum Voltage	0.0072	
20	Normal Voltage	0.0009	
20	Battery End Point	0.0008	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 66

Peak-to-Average Ratio

Mode	LTE Band 66 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.93	5.25	6.06	6.03	PASS
Middle CH	4.81	5.01	5.74	5.86	
Highest CH	4.72	5.07	5.71	5.94	
Mode	LTE Band 66 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.06	6.20	-	-	PASS
Middle CH	5.88	5.94	-	-	
Highest CH	6.00	5.94	-	-	



LTE Band 66 / 20MHz / QPSK

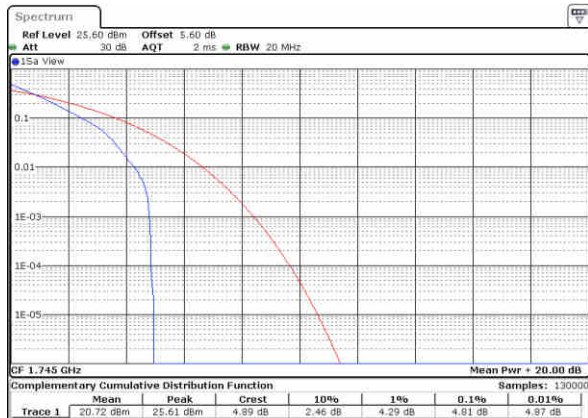
Lowest Channel / 1RB



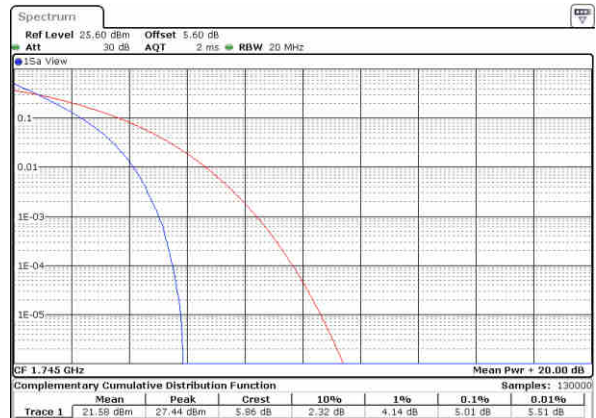
Lowest Channel / Full RB



Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB



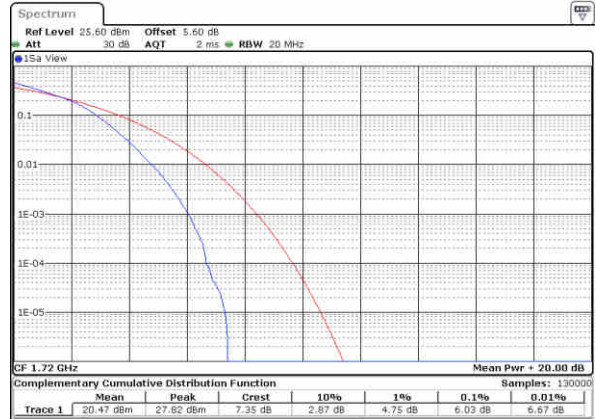


LTE Band 66 / 20MHz / 16QAM

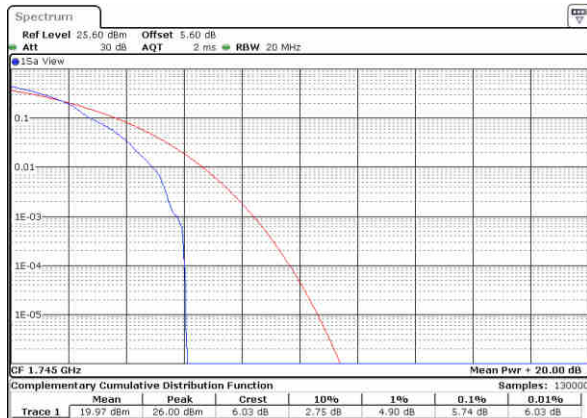
Lowest Channel / 1RB



Lowest Channel / Full RB



Middle Channel / 1RB



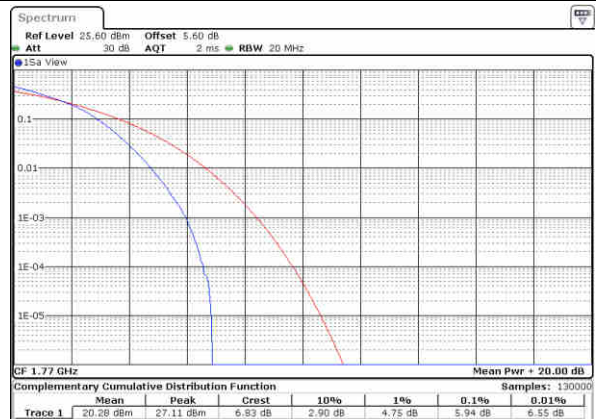
Middle Channel / Full RB



Highest Channel / 1RB



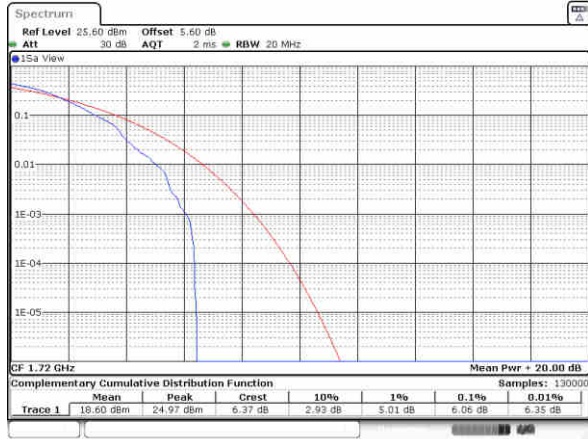
Highest Channel / Full RB



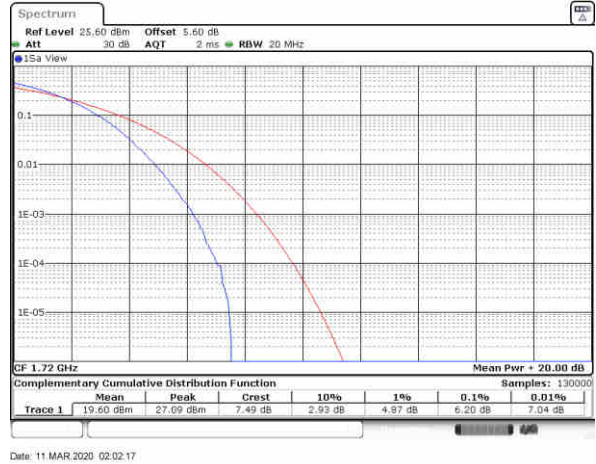


LTE Band 66 / 20MHz / 64QAM

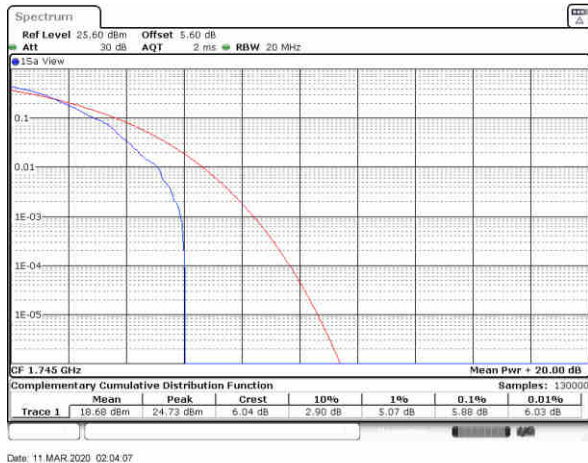
Lowest Channel / 1RB



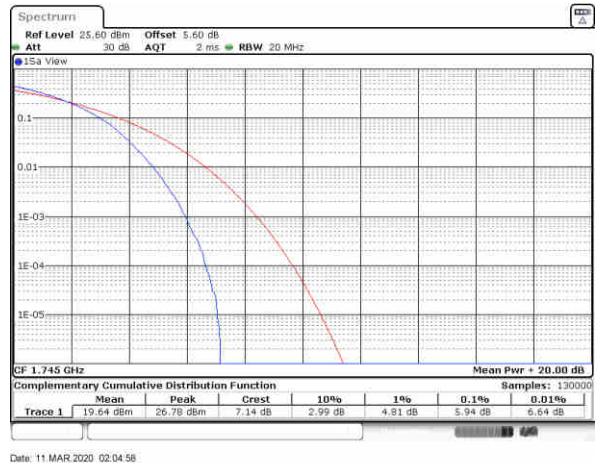
Lowest Channel / Full RB



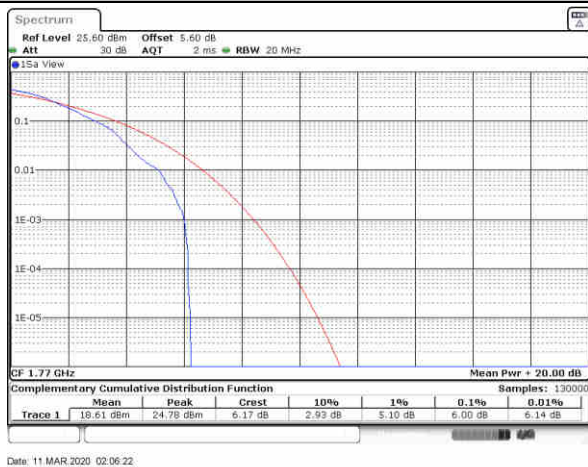
Middle Channel / 1RB



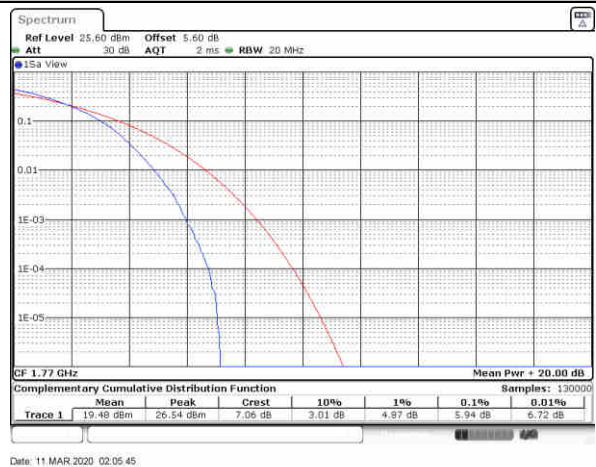
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB



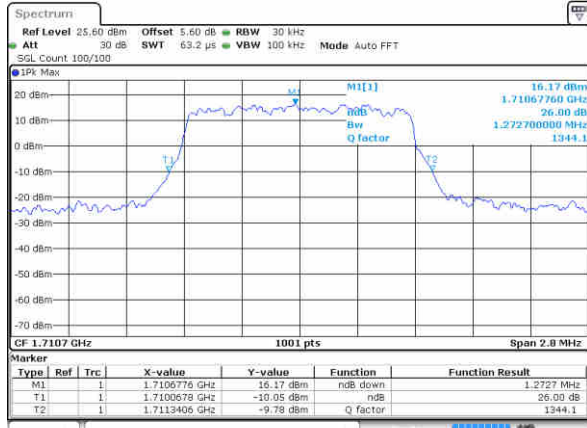
**26dB Bandwidth**

Mode	LTE Band 66 : 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	1.27	1.25	2.93	2.97	5.10	4.90	9.77	10.07	14.54	14.78	20.38	20.18
Middle CH	1.27	1.28	2.98	2.94	5.21	5.09	10.15	9.91	14.51	14.60	20.22	20.86
Highest CH	1.26	1.27	2.99	2.95	5.00	4.98	9.89	10.15	14.84	14.90	20.22	20.22
Mode	LTE Band 66 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.27	-	2.94	-	4.96	-	10.03	-	14.57	-	20.42	-
Middle CH	1.27	-	2.96	-	5.08	-	9.87	-	14.21	-	20.34	-
Highest CH	1.26	-	2.91	-	5.05	-	9.79	-	14.36	-	20.06	-

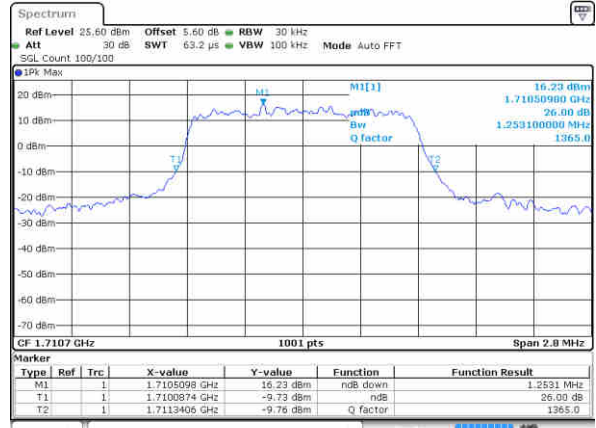


LTE Band 66

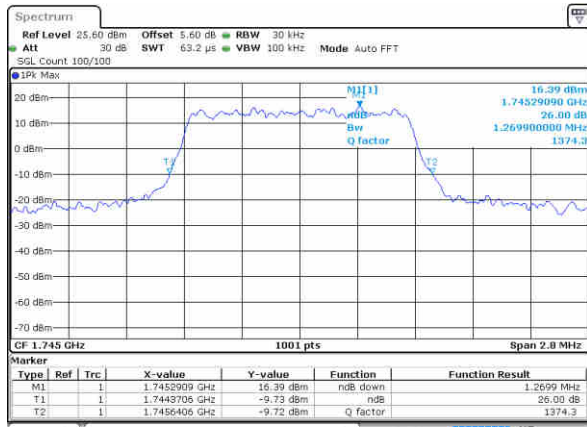
Lowest Channel / 1.4MHz / QPSK



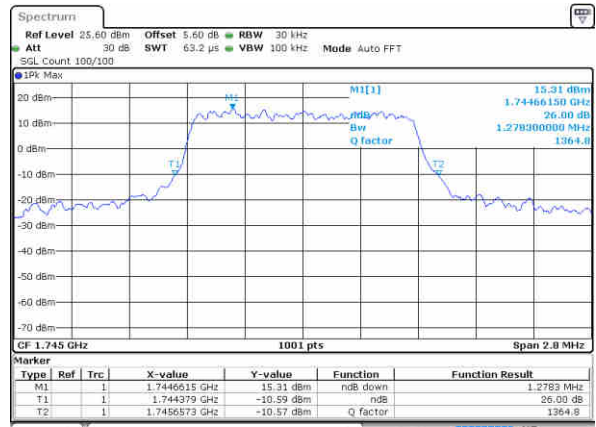
Lowest Channel / 1.4MHz / 16QAM



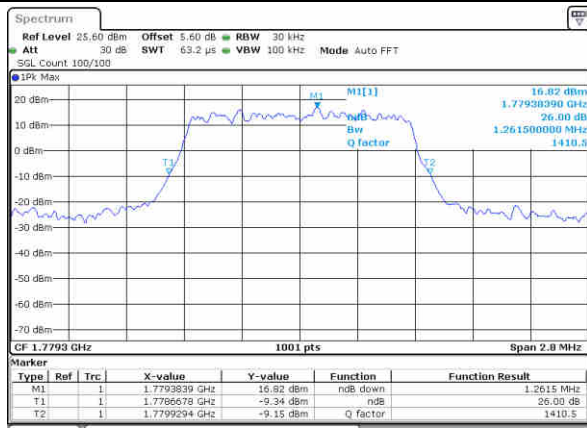
Middle Channel / 1.4MHz / QPSK



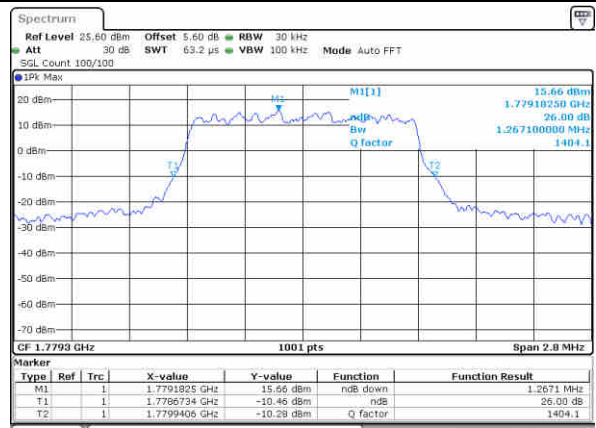
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



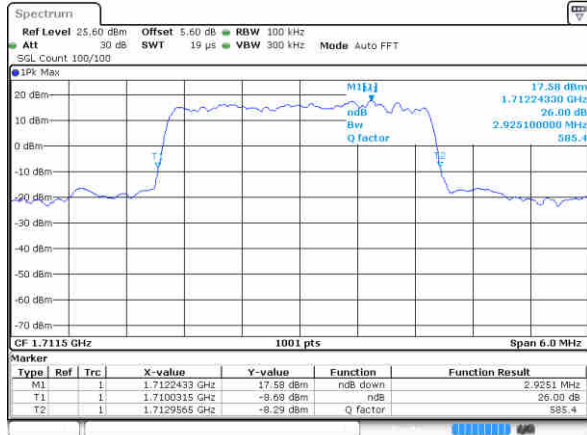
Highest Channel / 1.4MHz / 16QAM



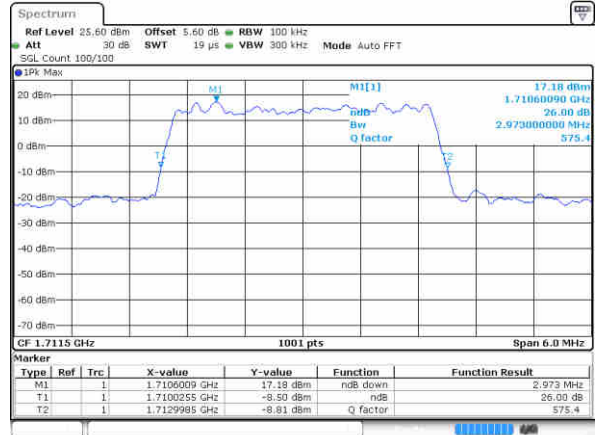


LTE Band 66

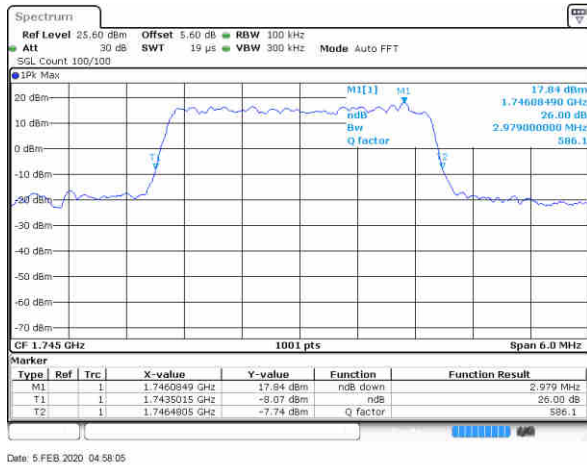
Lowest Channel / 3MHz / QPSK



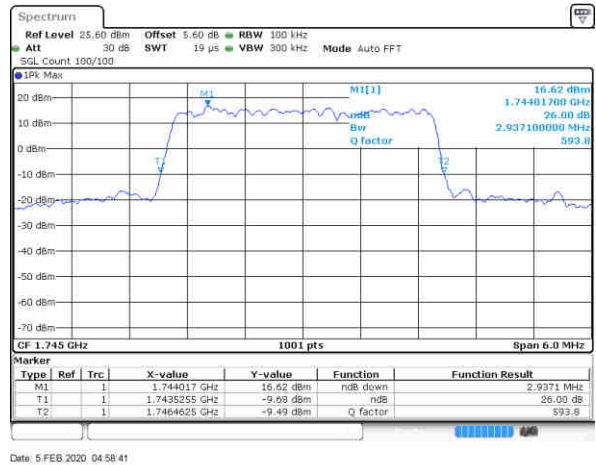
Lowest Channel / 3MHz / 16QAM



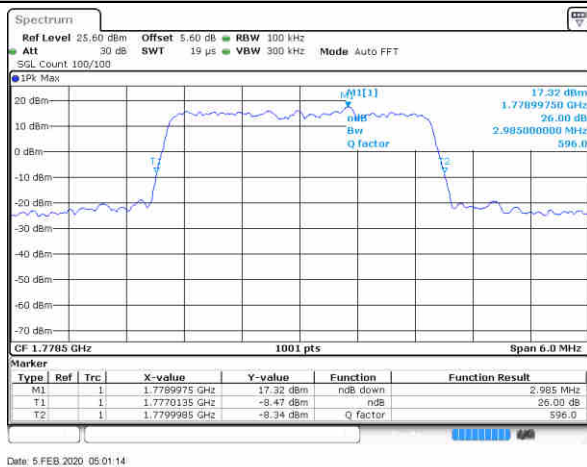
Middle Channel / 3MHz / QPSK



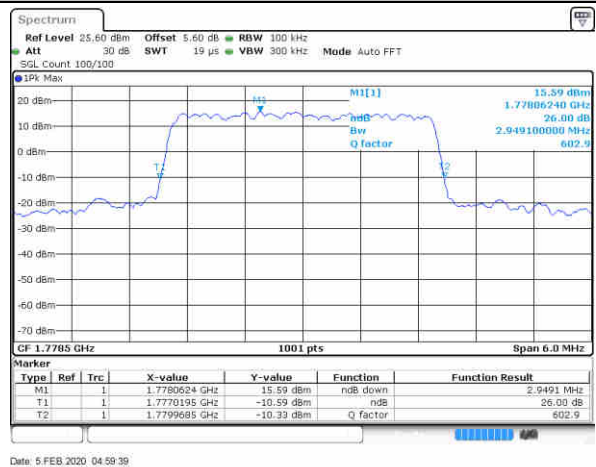
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK



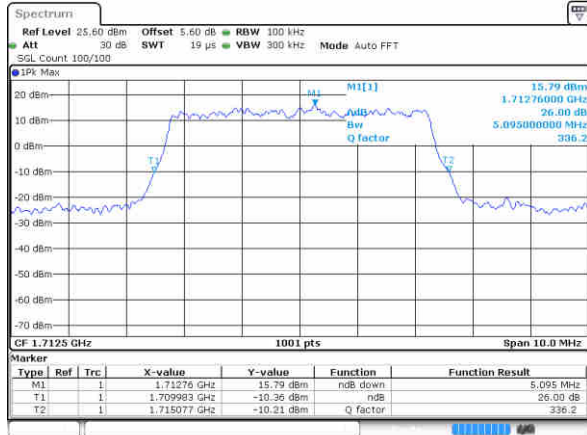
Highest Channel / 3MHz / 16QAM





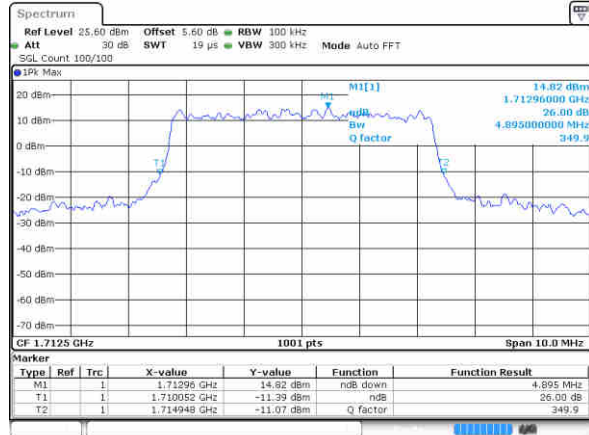
LTE Band 66

Lowest Channel / 5MHz / QPSK



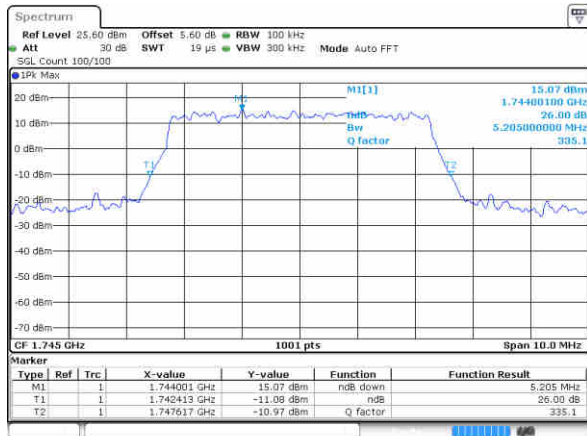
Date: 5 FEB 2020 05:06:19

Lowest Channel / 5MHz / 16QAM



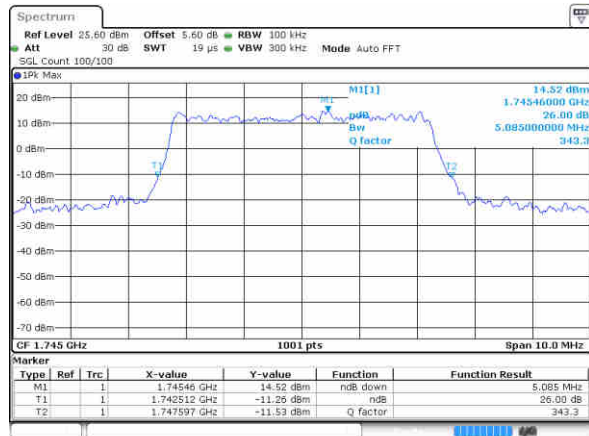
Date: 5 FEB 2020 05:06:57

Middle Channel / 5MHz / QPSK



Date: 5 FEB 2020 05:25:50

Middle Channel / 5MHz / 16QAM



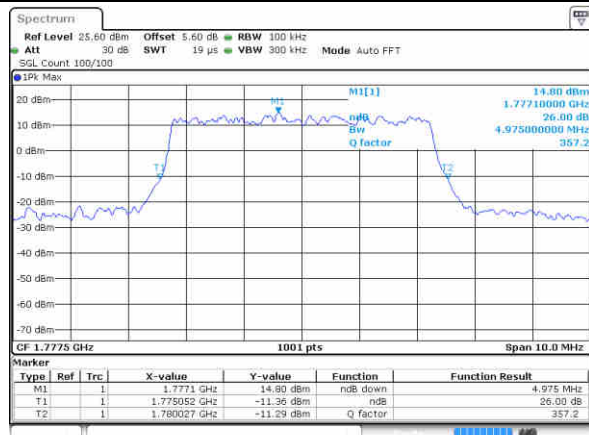
Date: 5 FEB 2020 05:25:30

Highest Channel / 5MHz / QPSK



Date: 5 FEB 2020 05:26:36

Highest Channel / 5MHz / 16QAM

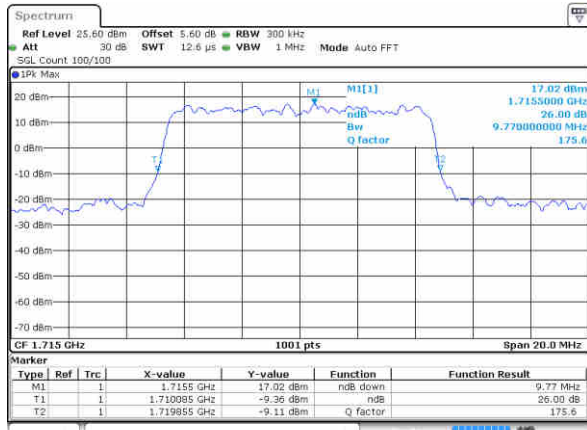


Date: 5 FEB 2020 05:27:26

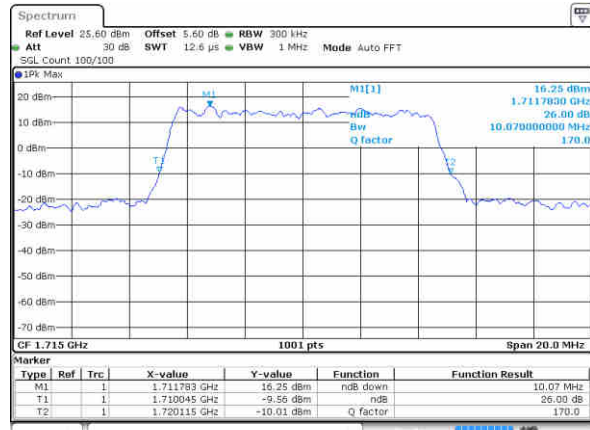


LTE Band 66

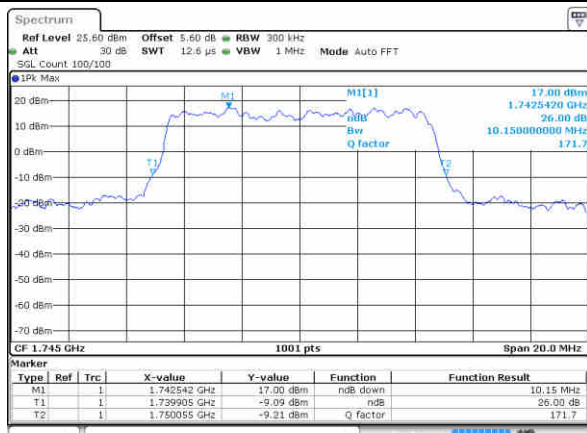
Lowest Channel / 10MHz / QPSK



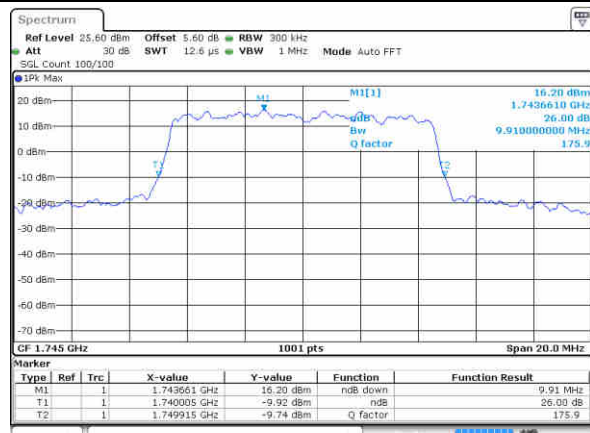
Lowest Channel / 10MHz / 16QAM



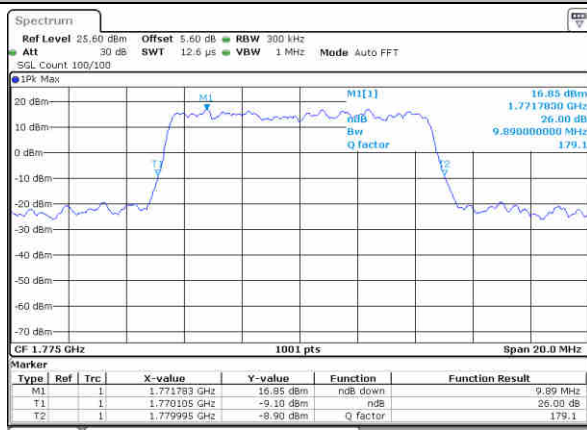
Middle Channel / 10MHz / QPSK



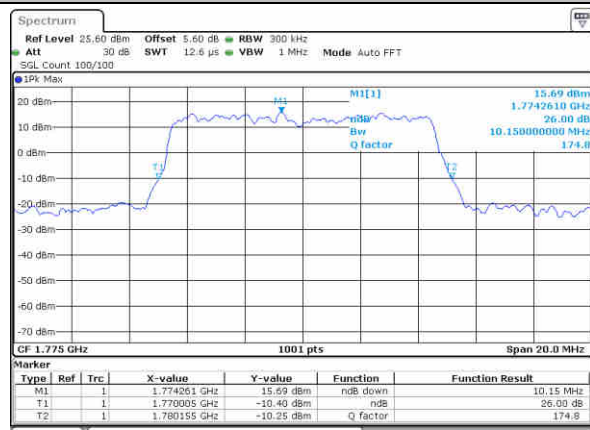
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



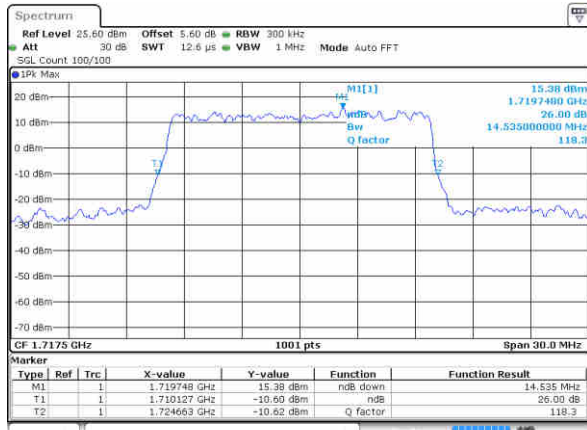
Highest Channel / 10MHz / 16QAM



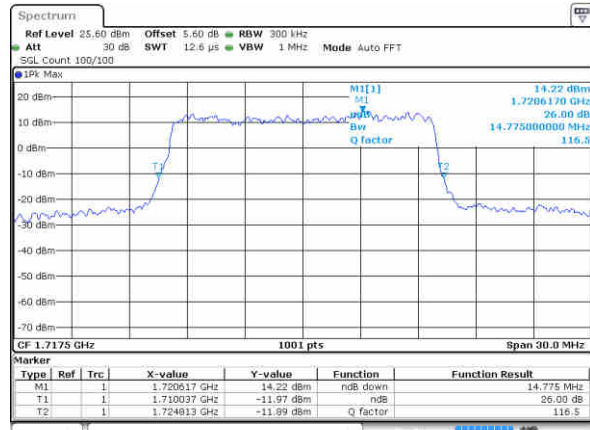


LTE Band 66

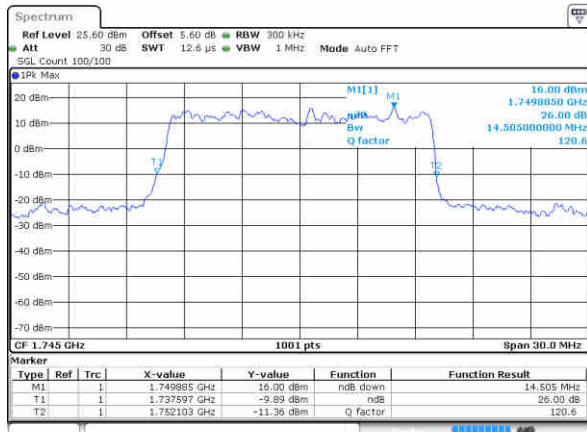
Lowest Channel / 15MHz / QPSK



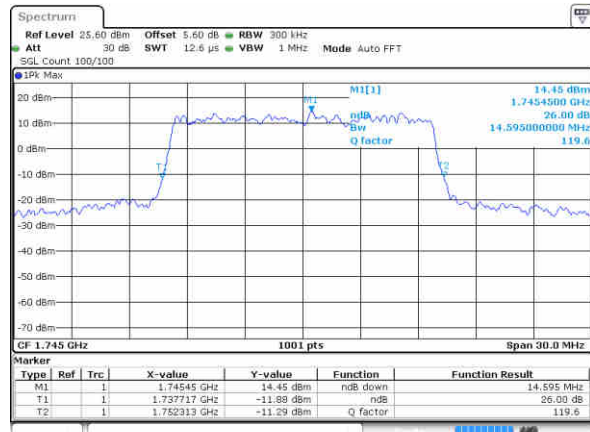
Lowest Channel / 15MHz / 16QAM



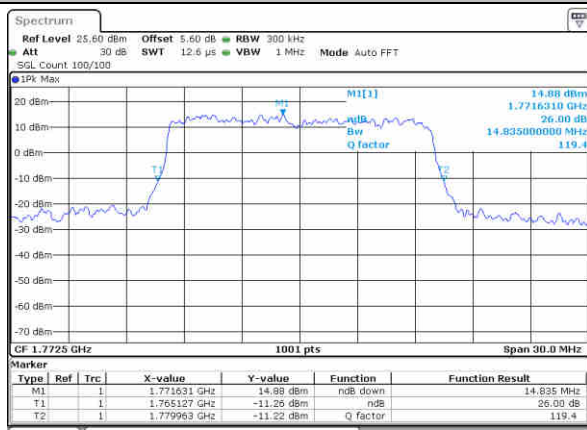
Middle Channel / 15MHz / QPSK



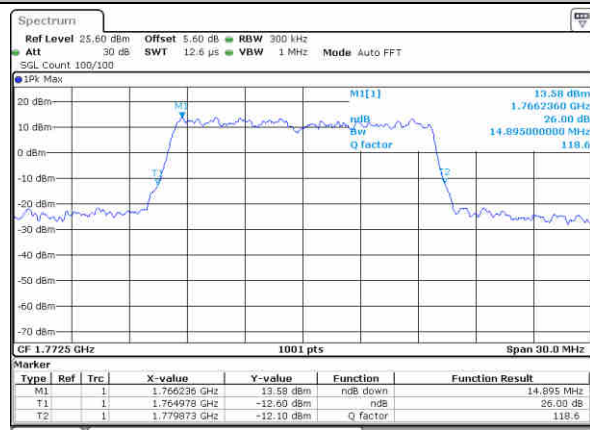
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK



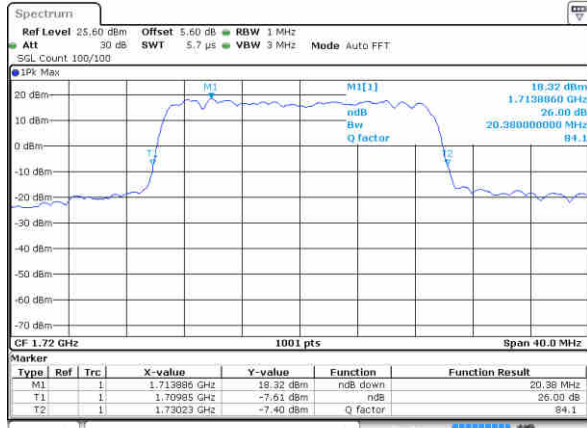
Highest Channel / 15MHz / 16QAM



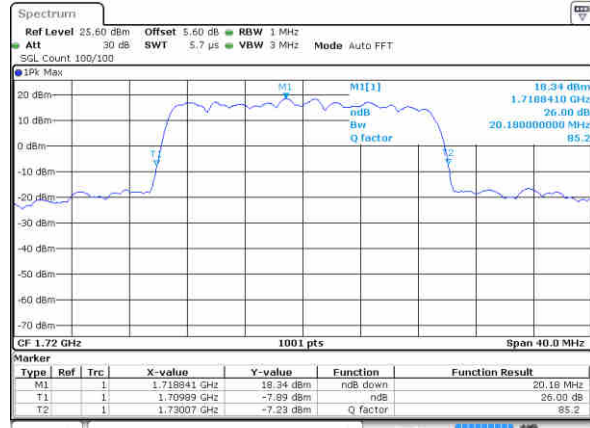


LTE Band 66

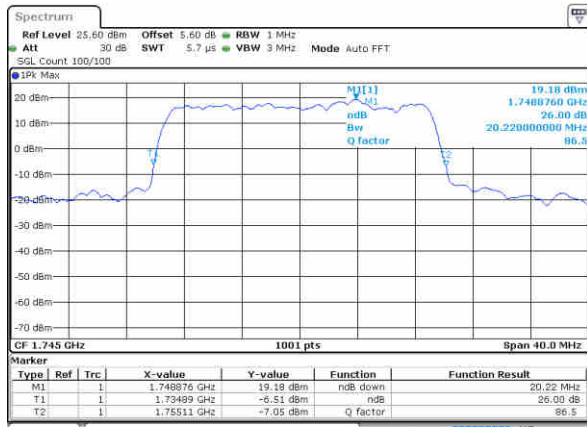
Lowest Channel / 20MHz / QPSK



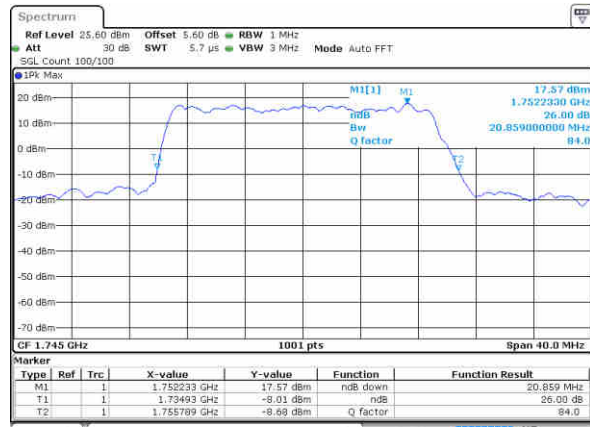
Lowest Channel / 20MHz / 16QAM



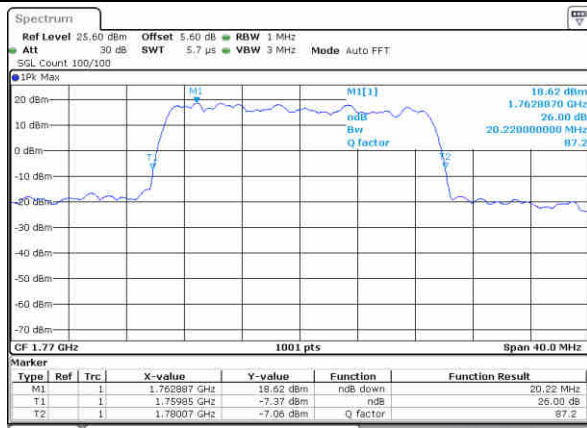
Middle Channel / 20MHz / QPSK



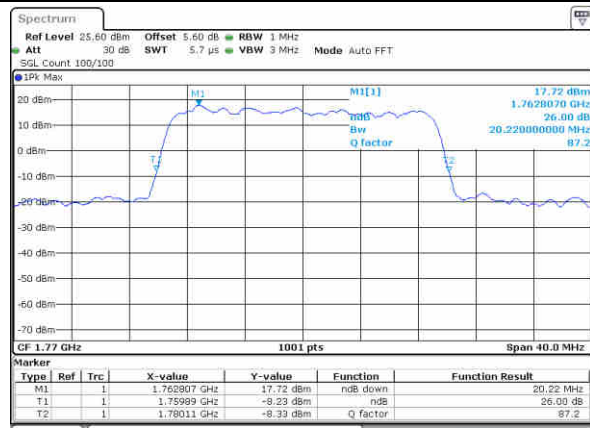
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK



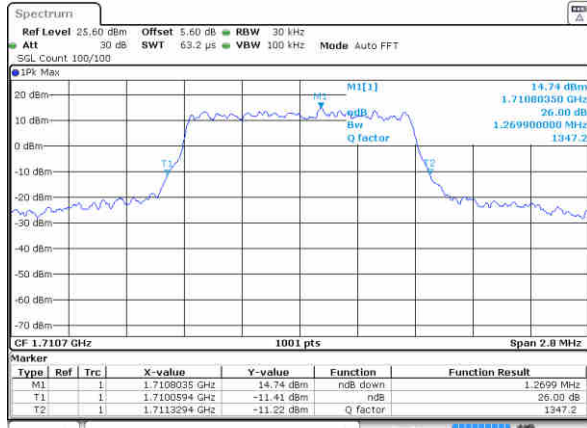
Highest Channel / 20MHz / 16QAM





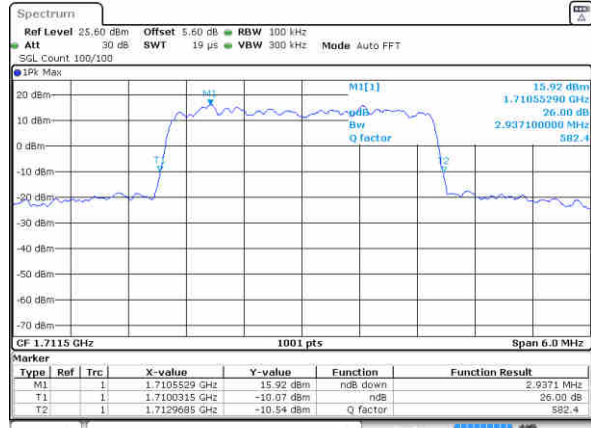
LTE Band 66

Lowest Channel / 1.4MHz / 64QAM



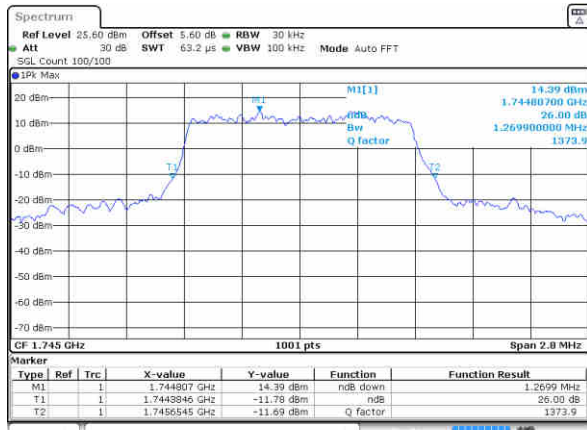
Date: 11 MAR 2020 01:28:40

Lowest Channel / 3MHz / 64QAM



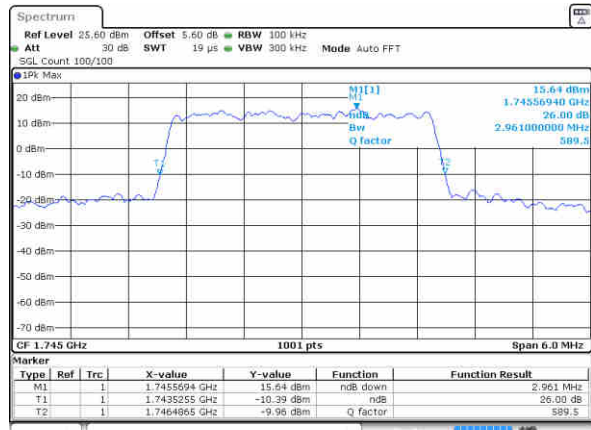
Date: 11 MAR 2020 01:38:33

Middle Channel / 20MHz / 64QAM



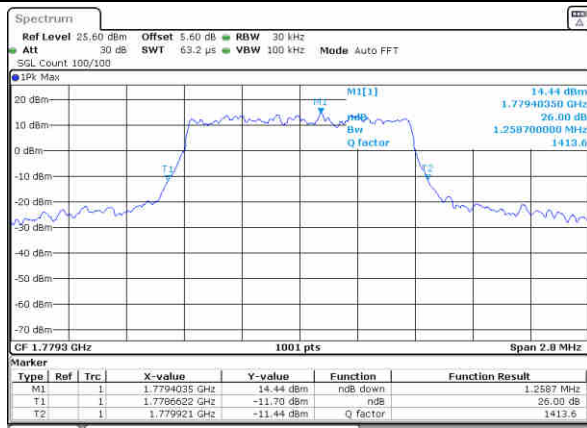
Date: 11 MAR 2020 01:33:22

Middle Channel / 3MHz / 64QAM



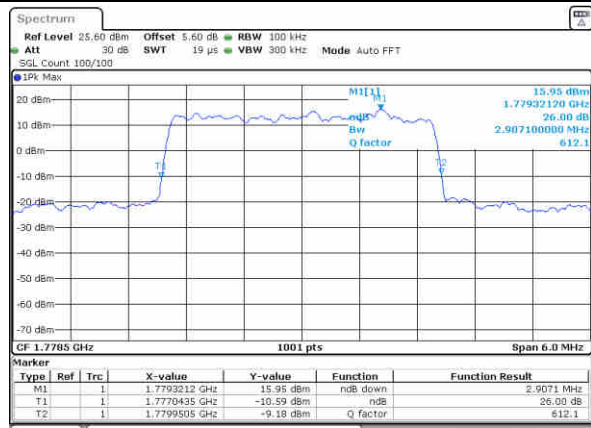
Date: 11 MAR 2020 01:41:36

Highest Channel / 20MHz / 64QAM



Date: 11 MAR 2020 01:34:09

Highest Channel / 3MHz / 64QAM

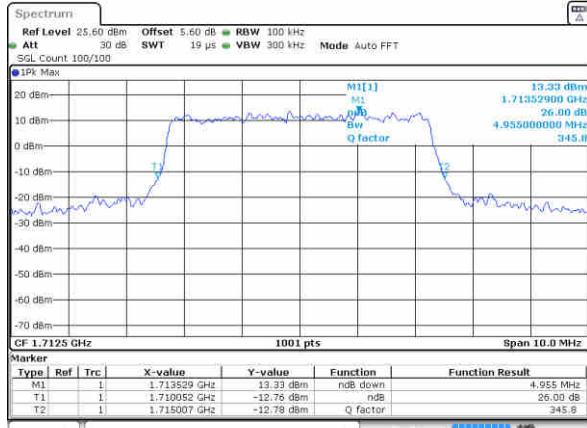


Date: 11 MAR 2020 01:42:22



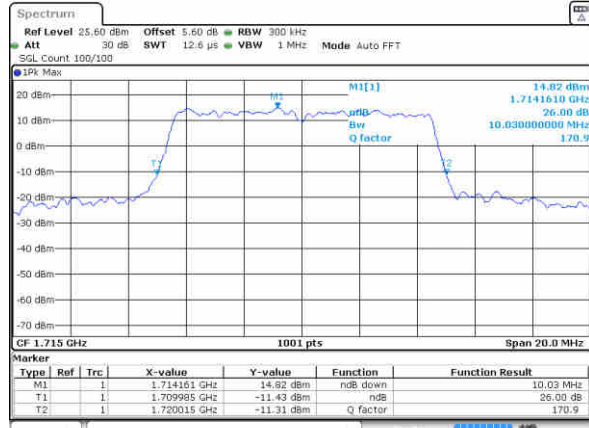
LTE Band 66

Lowest Channel / 5MHz / 64QAM



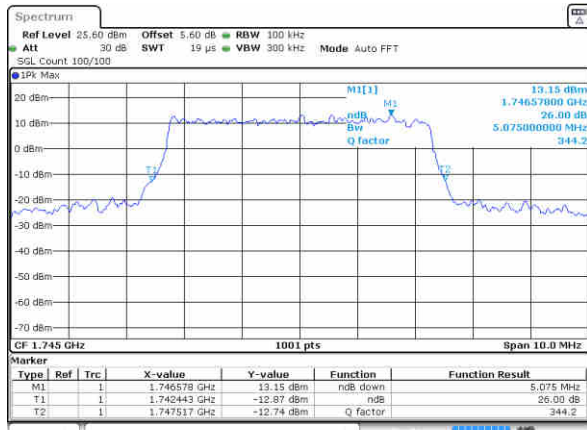
Date: 11 MAR 2020 01:45:16

Lowest Channel / 10MHz / 64QAM



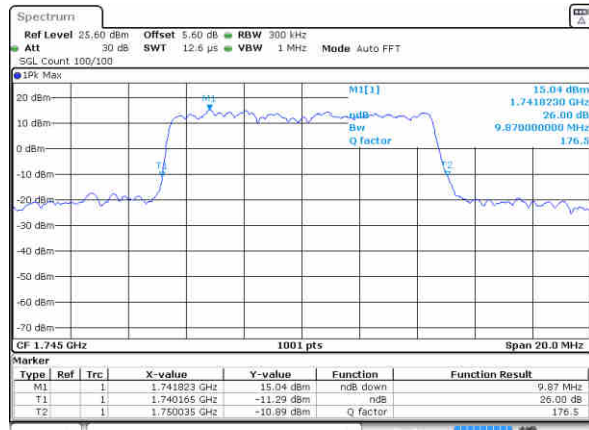
Date: 11 MAR 2020 01:51:47

Middle Channel / 5MHz / 64QAM



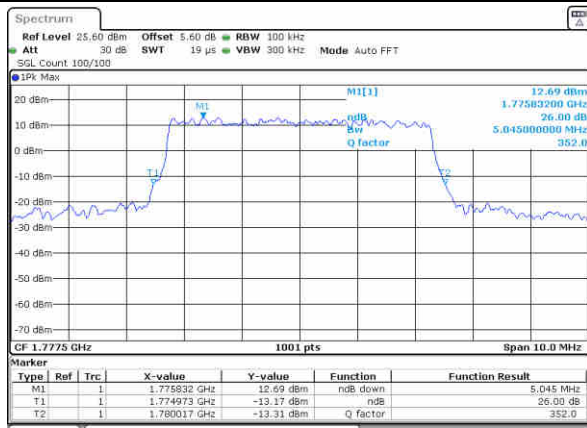
Date: 11 MAR 2020 01:48:41

Middle Channel / 10MHz / 64QAM



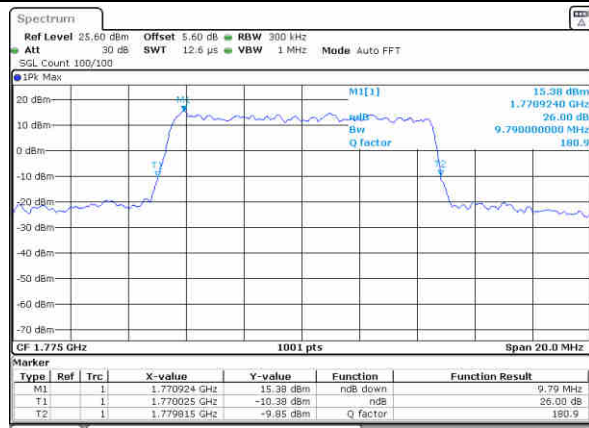
Date: 11 MAR 2020 01:54:14

Highest Channel / 5MHz / 64QAM



Date: 11 MAR 2020 01:49:31

Highest Channel / 10MHz / 64QAM

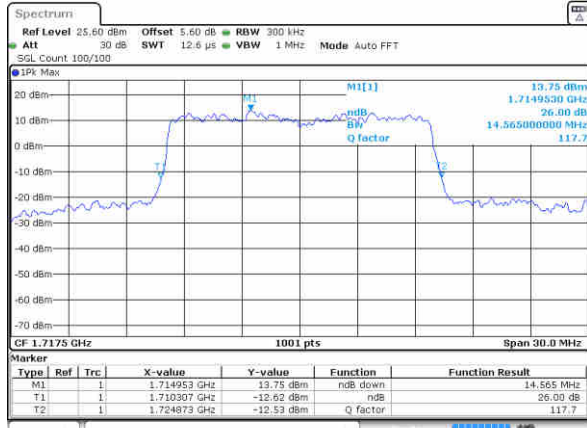


Date: 11 MAR 2020 01:55:05

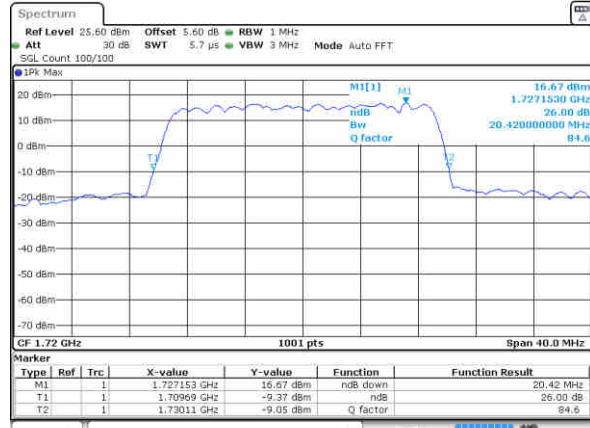


LTE Band 66

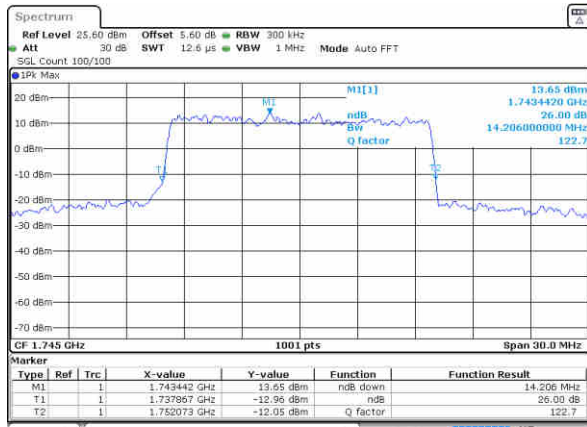
Lowest Channel / 15MHz / 64QAM



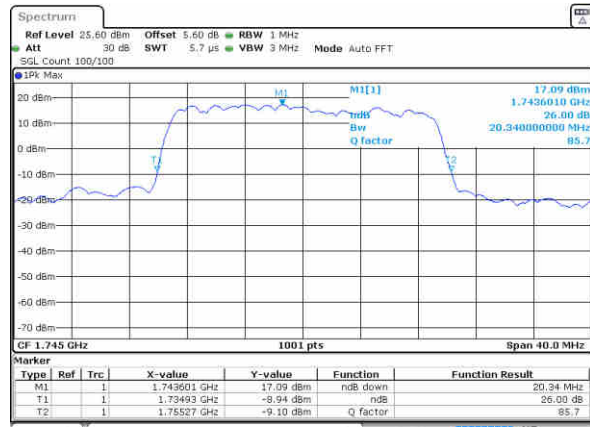
Lowest Channel / 20MHz / 64QAM



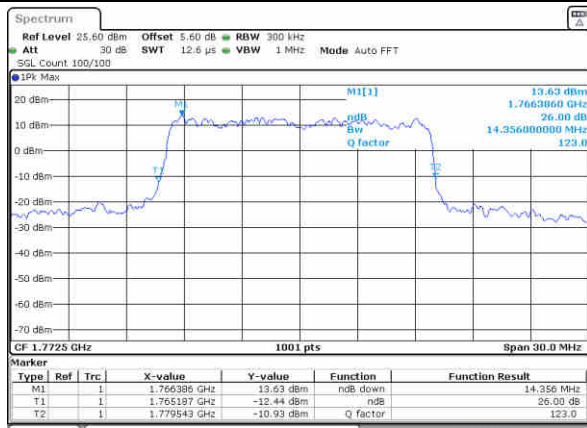
Middle Channel / 15MHz / 64QAM



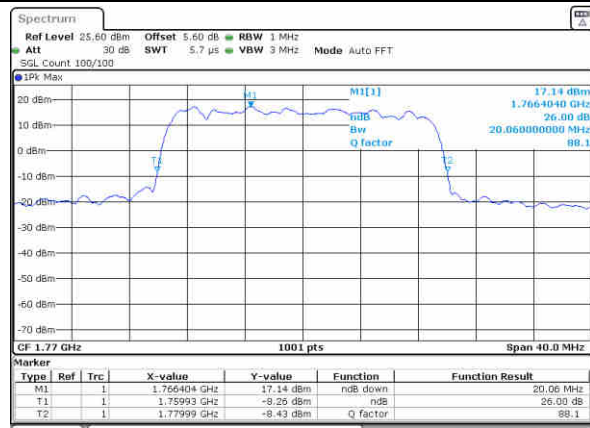
Middle Channel / 20MHz / 64QAM



Highest Channel / 15MHz / 64QAM



Highest Channel / 20MHz / 64QAM



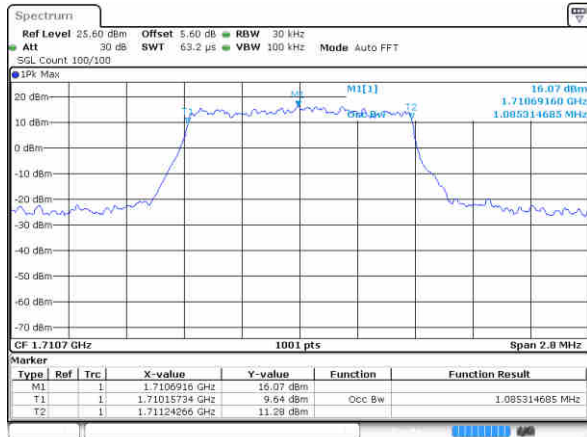
**Occupied Bandwidth**

Mode	LTE Band 66 : 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	2.71	2.72	4.51	4.49	9.05	8.97	13.31	13.46	18.30	18.38
Middle CH	1.09	1.10	2.70	2.69	4.51	4.50	9.07	8.95	13.46	13.46	18.30	18.46
Highest CH	1.09	1.09	2.70	2.73	4.49	4.50	9.05	9.05	13.49	13.49	18.38	18.38
Mode	LTE Band 66 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.09	-	2.73	-	4.52	-	9.07	-	13.46	-	18.42	-
Middle CH	1.09	-	2.72	-	4.49	-	9.07	-	13.40	-	18.38	-
Highest CH	1.09	-	2.70	-	4.51	-	9.07	-	13.43	-	18.34	-

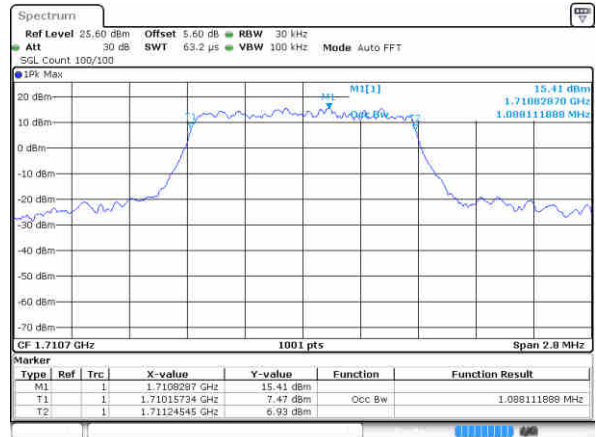


LTE Band 66

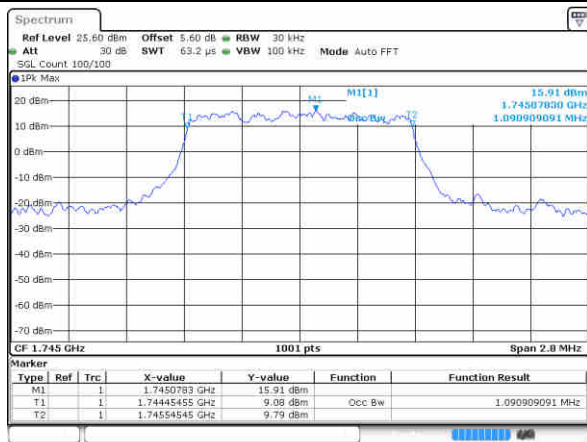
Lowest Channel / 1.4MHz / QPSK



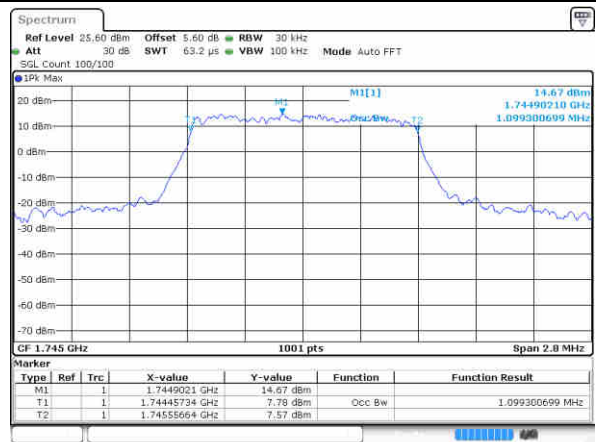
Lowest Channel / 1.4MHz / 16QAM



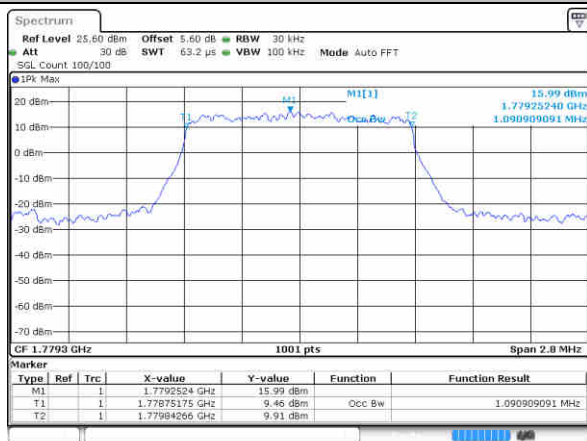
Middle Channel / 1.4MHz / QPSK



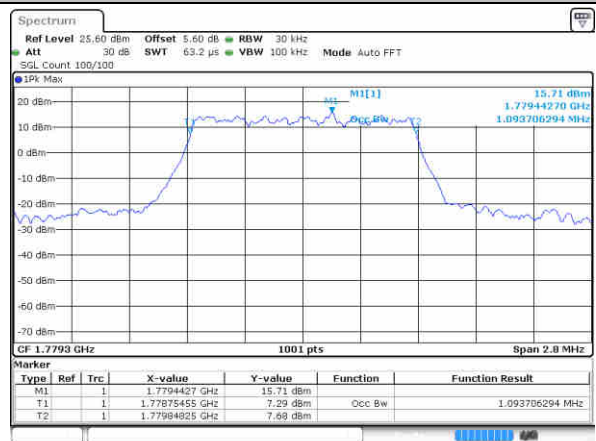
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



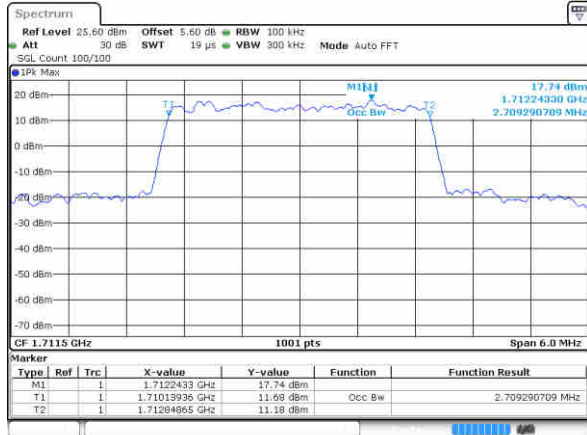
Highest Channel / 1.4MHz / 16QAM



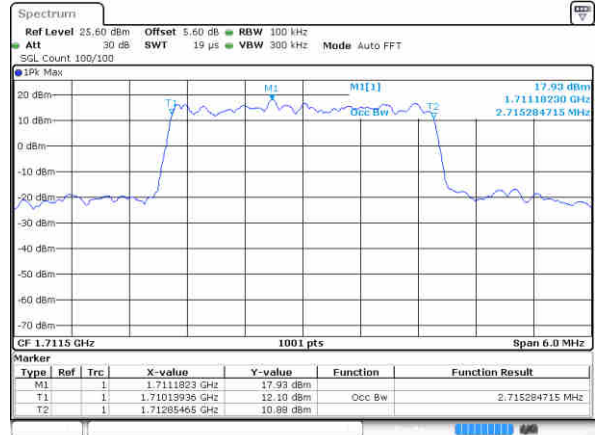


LTE Band 66

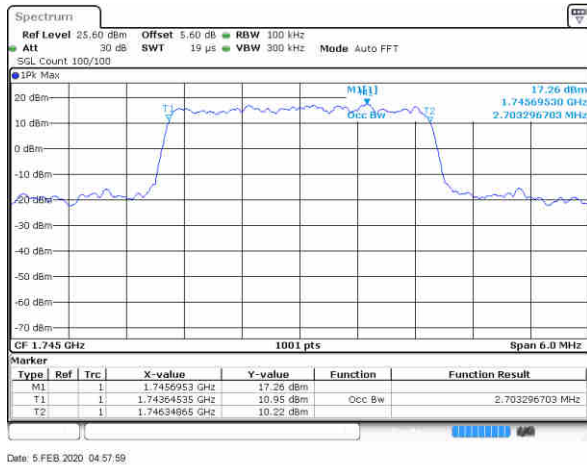
Lowest Channel / 3MHz / QPSK



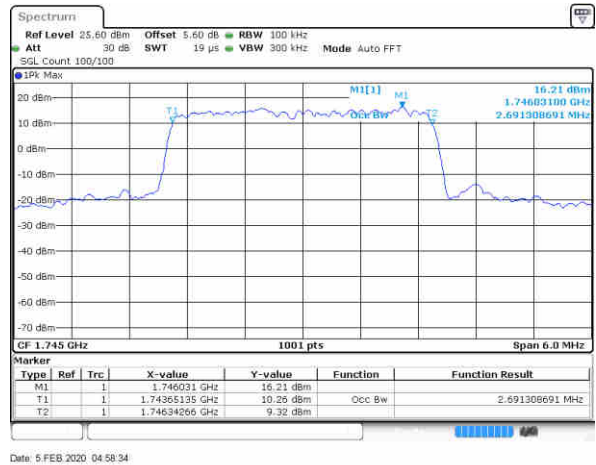
Lowest Channel / 3MHz / 16QAM



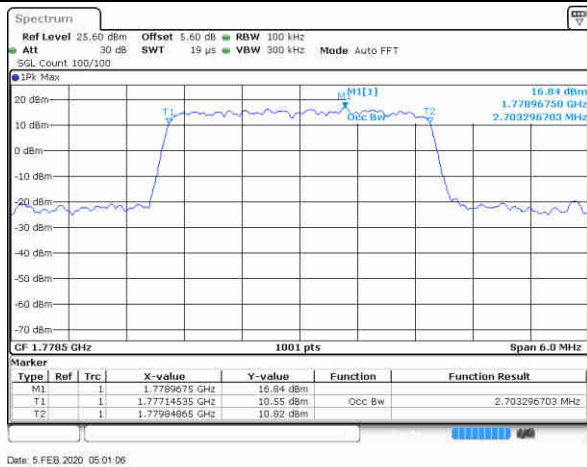
Middle Channel / 3MHz / QPSK



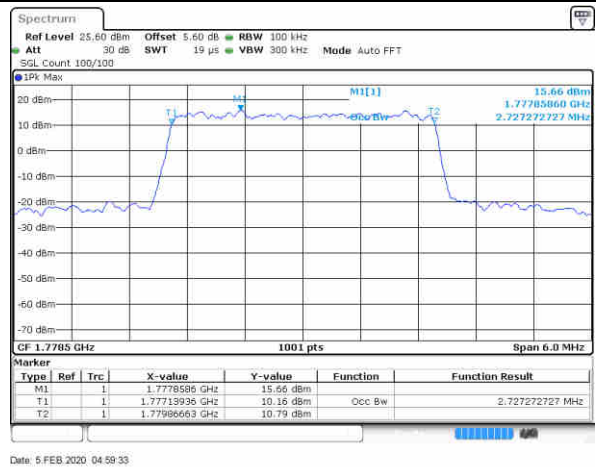
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK



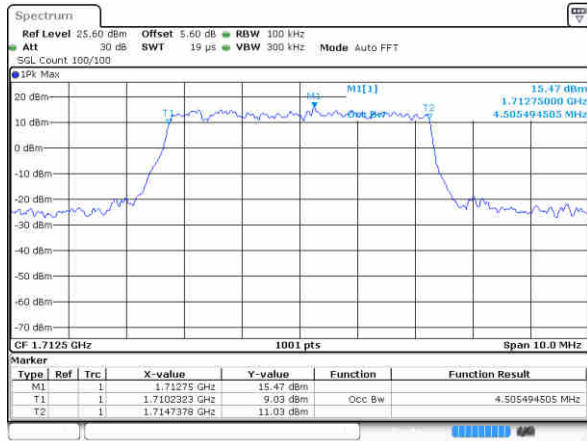
Highest Channel / 3MHz / 16QAM



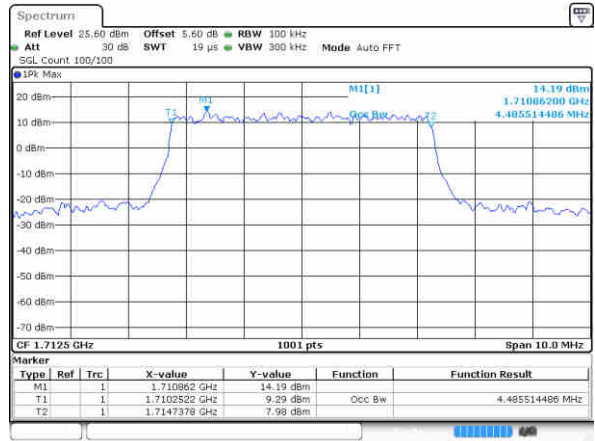


LTE Band 66

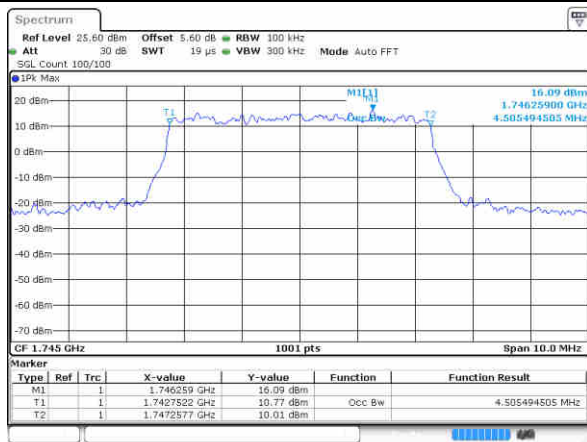
Lowest Channel / 5MHz / QPSK



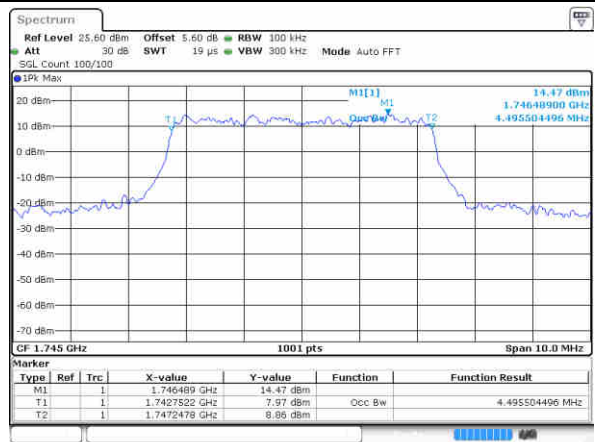
Lowest Channel / 5MHz / 16QAM



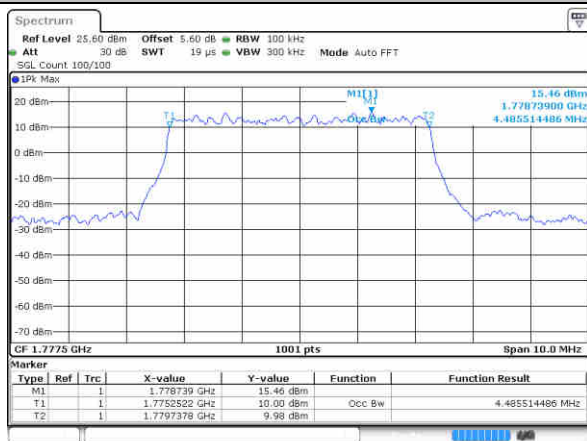
Middle Channel / 5MHz / QPSK



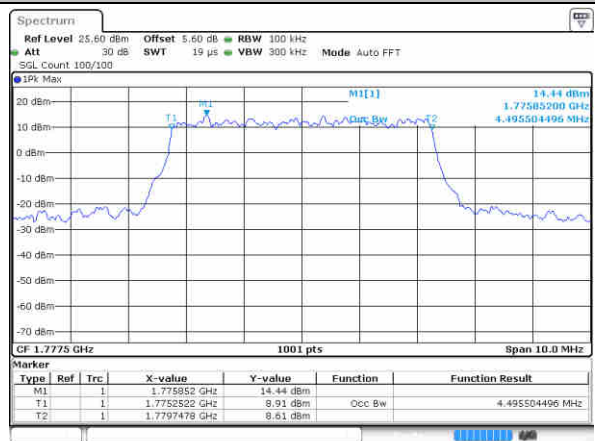
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



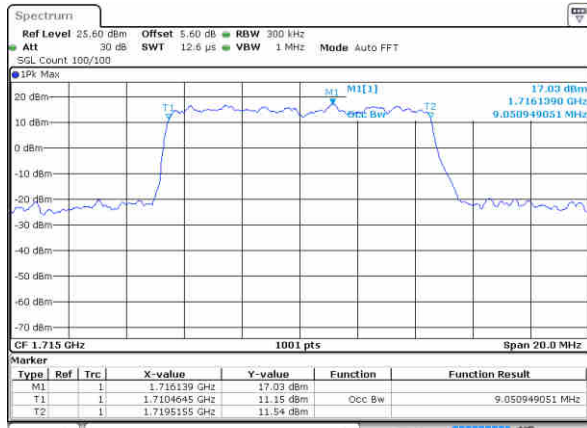
Highest Channel / 5MHz / 16QAM



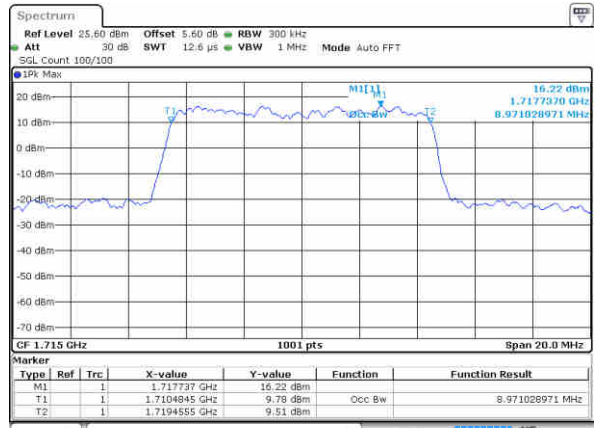


LTE Band 66

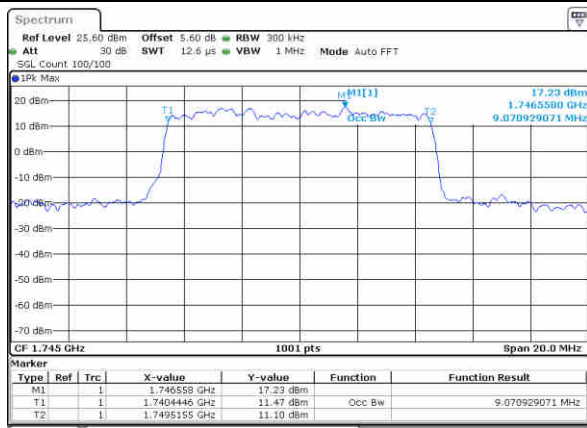
Lowest Channel / 10MHz / QPSK



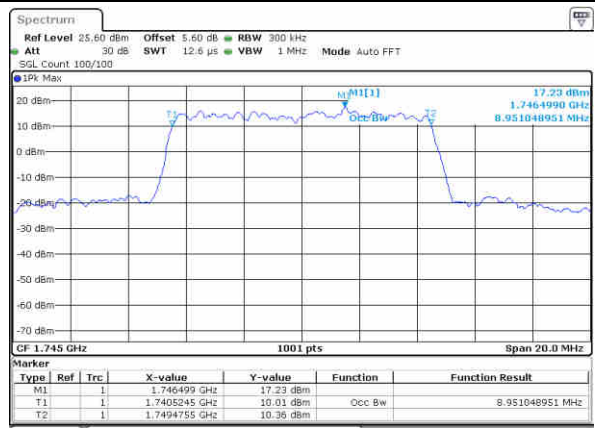
Lowest Channel / 10MHz / 16QAM



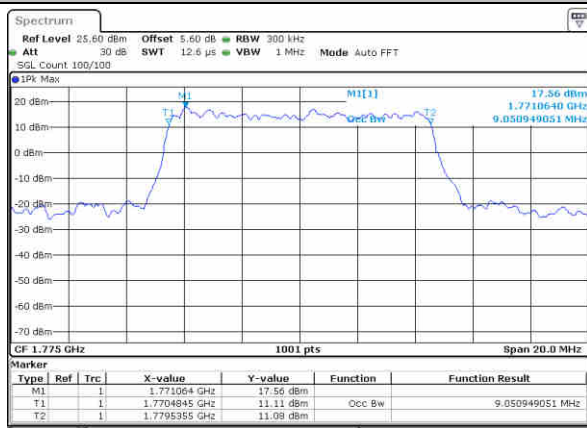
Middle Channel / 10MHz / QPSK



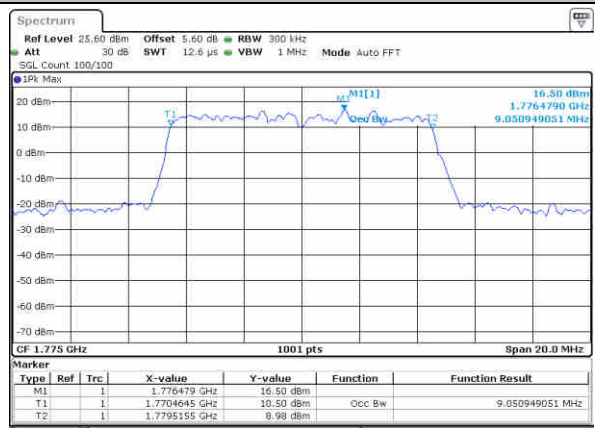
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



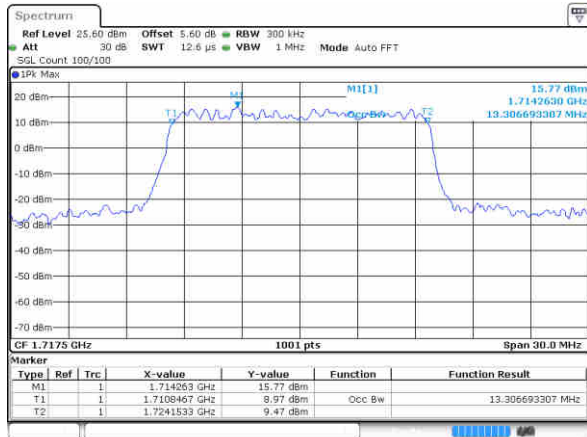
Highest Channel / 10MHz / 16QAM



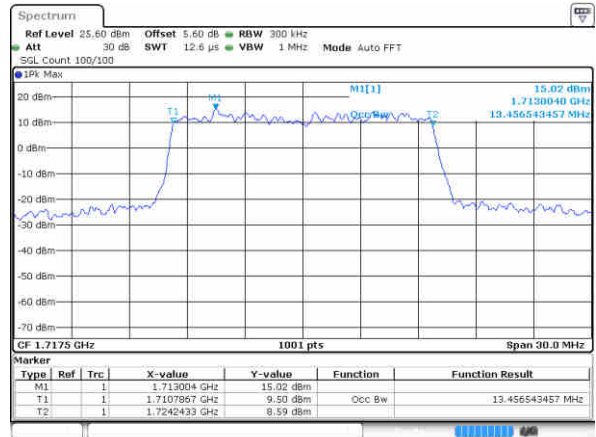


LTE Band 66

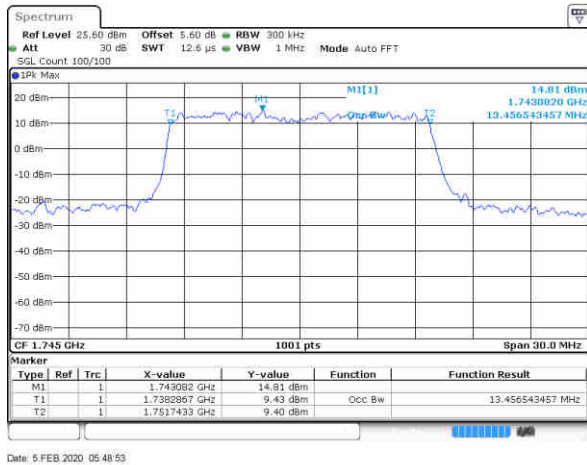
Lowest Channel / 15MHz / QPSK



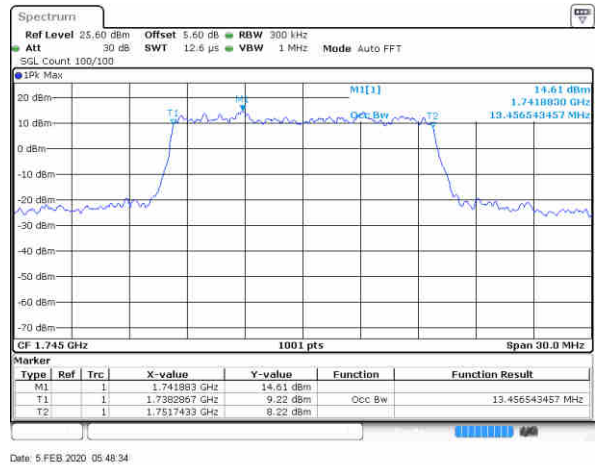
Lowest Channel / 15MHz / 16QAM



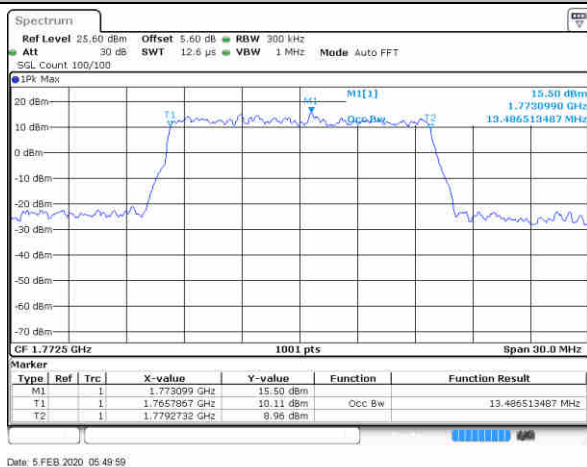
Middle Channel / 15MHz / QPSK



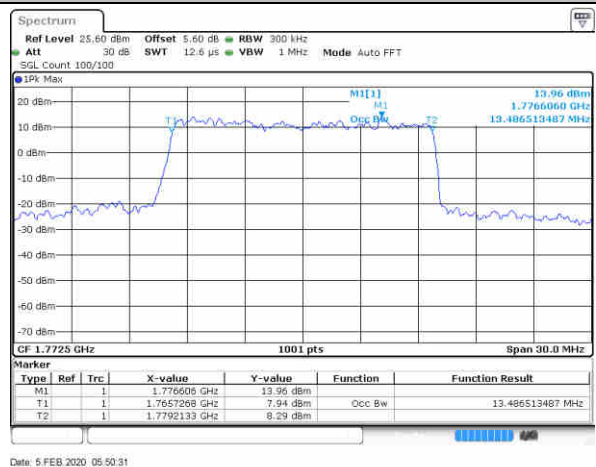
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK



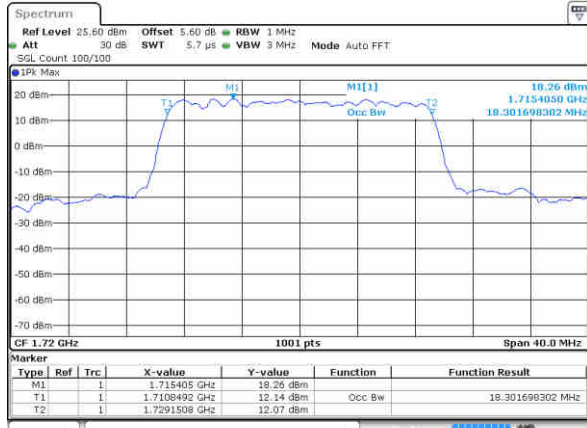
Highest Channel / 15MHz / 16QAM





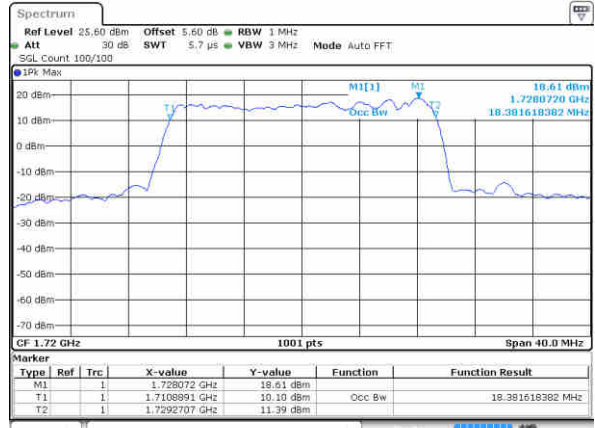
LTE Band 66

Lowest Channel / 20MHz / QPSK



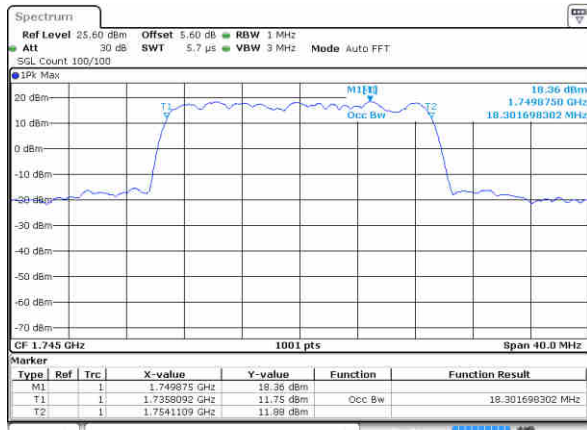
Date: 5 FEB 2020 05:55:19

Lowest Channel / 20MHz / 16QAM



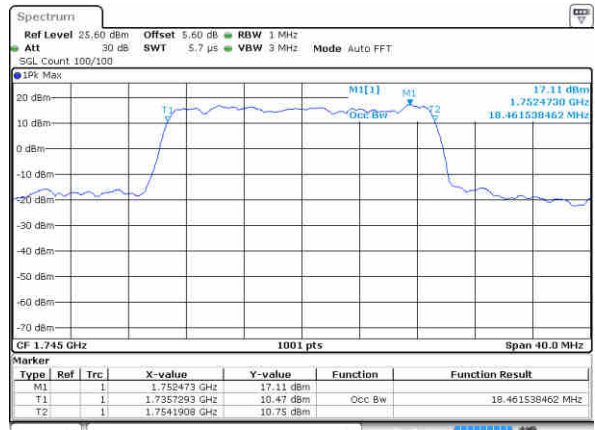
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Middle Channel / 20MHz / QPSK



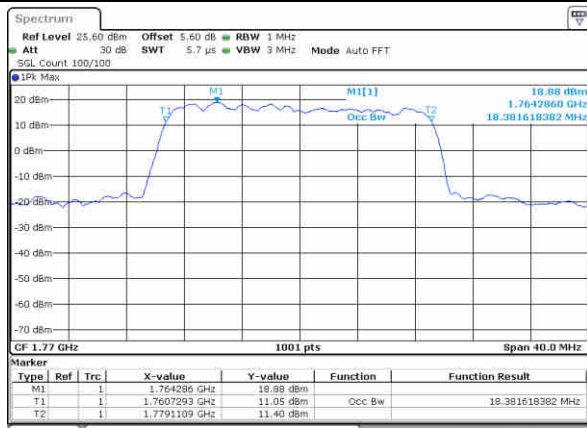
Date: 5 FEB 2020 06:01:21

Middle Channel / 20MHz / 16QAM



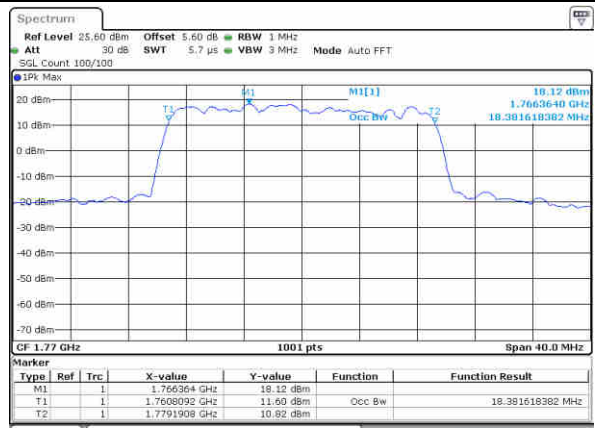
Date: 5 FEB 2020 06:01:49

Highest Channel / 20MHz / QPSK



Date: 5 FEB 2020 06:04:07

Highest Channel / 20MHz / 16QAM

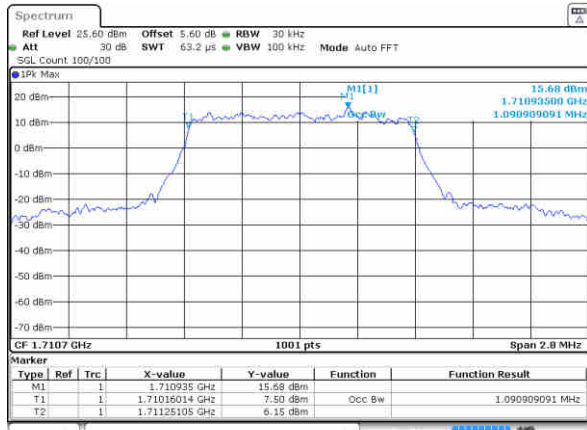


Date: 5 FEB 2020 06:03:20

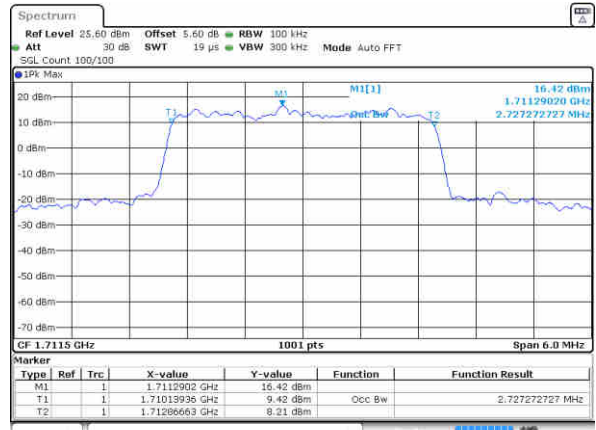


LTE Band 66

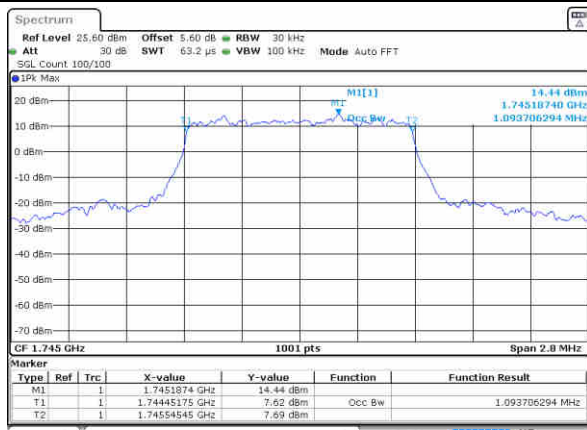
Lowest Channel / 1.4MHz / 64QAM



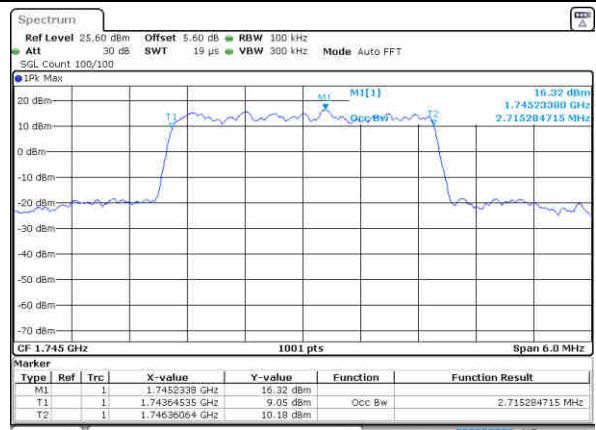
Lowest Channel / 3MHz / 64QAM



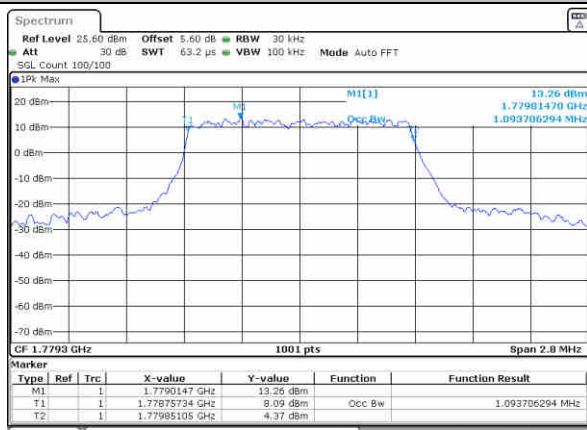
Middle Channel / 20MHz / 64QAM



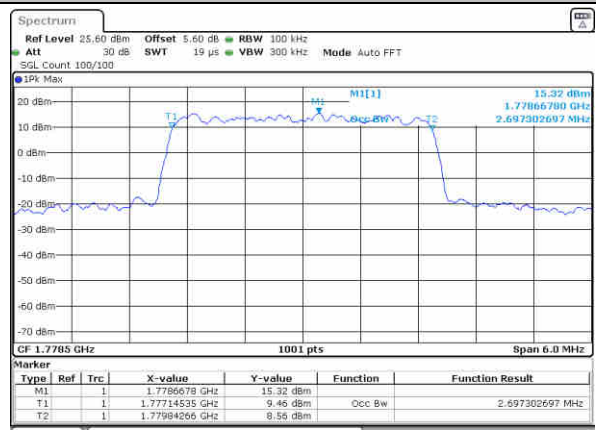
Middle Channel / 3MHz / 64QAM



Highest Channel / 20MHz / 64QAM



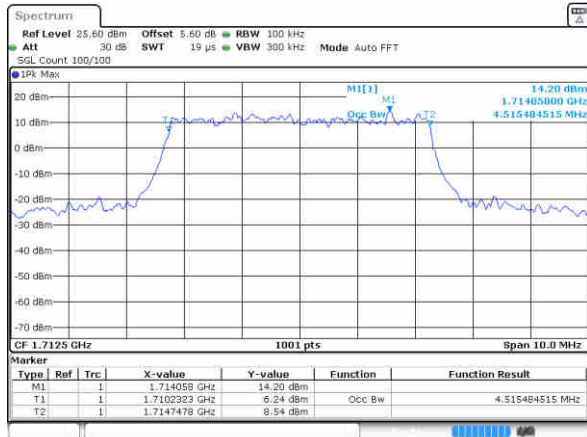
Highest Channel / 3MHz / 64QAM



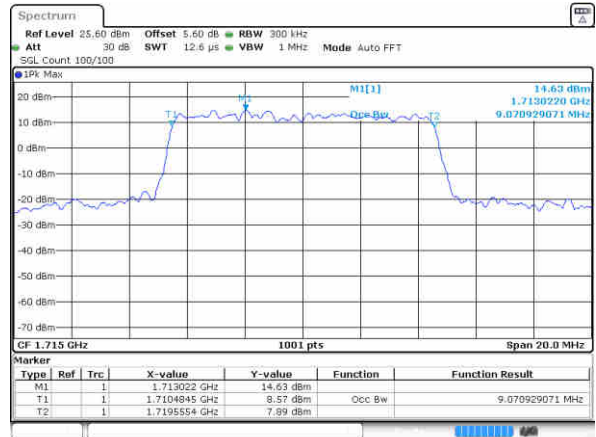


LTE Band 66

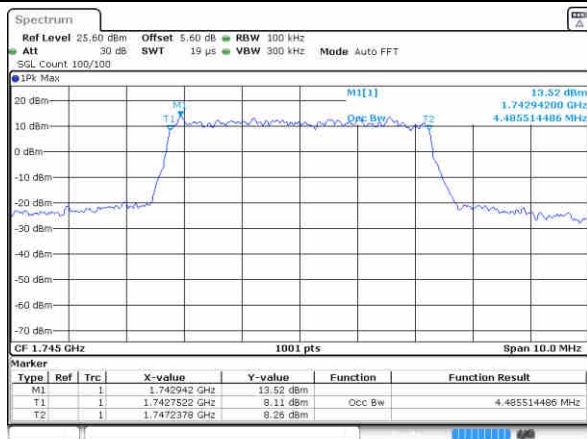
Lowest Channel / 5MHz / 64QAM



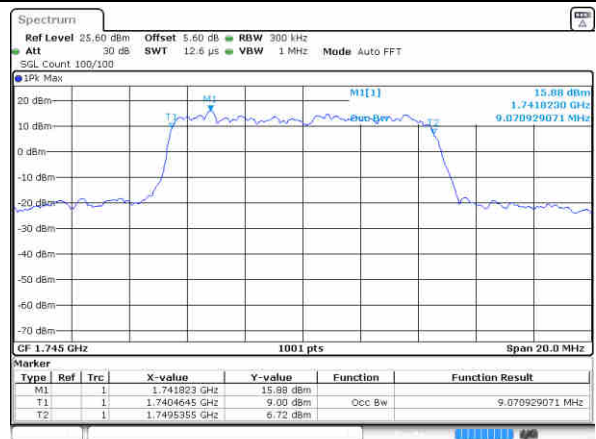
Lowest Channel / 10MHz / 64QAM



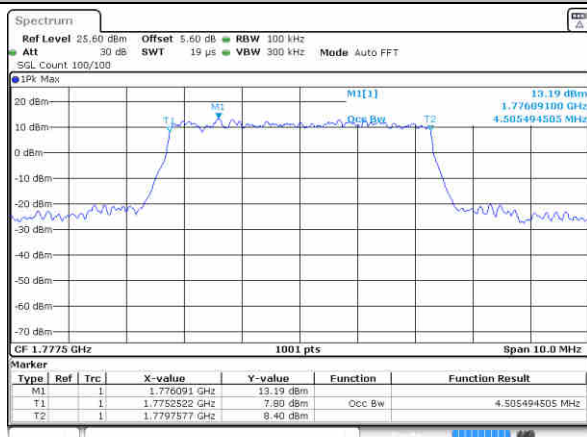
Middle Channel / 5MHz / 64QAM



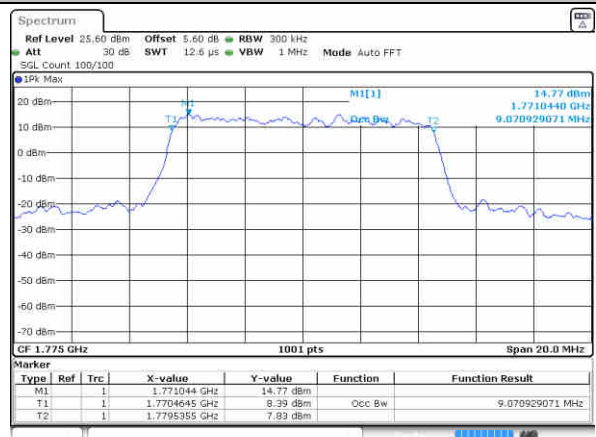
Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM



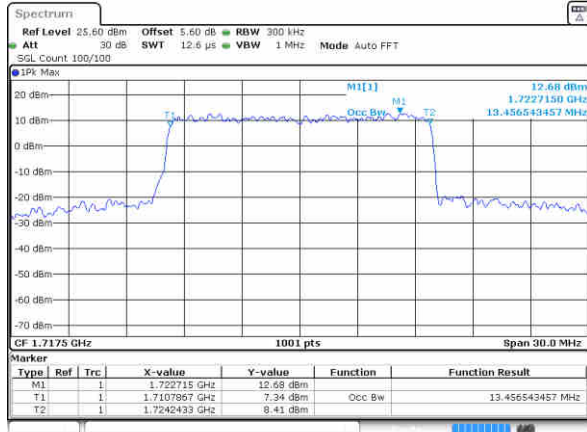
Highest Channel / 10MHz / 64QAM



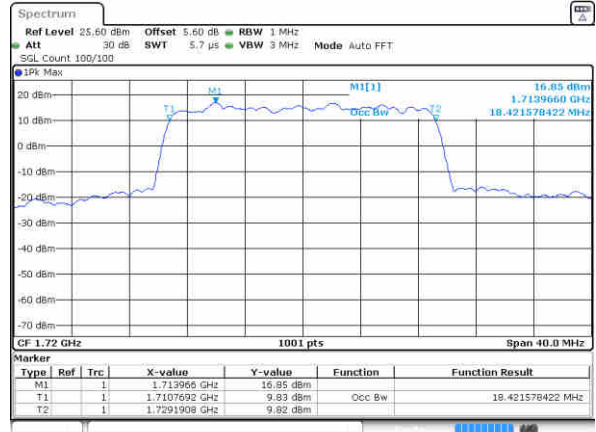


LTE Band 66

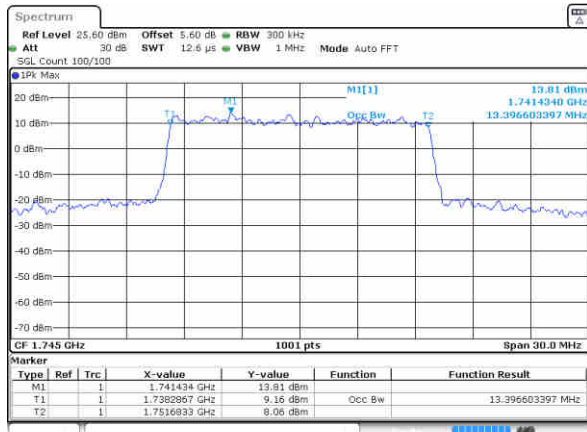
Lowest Channel / 15MHz / 64QAM



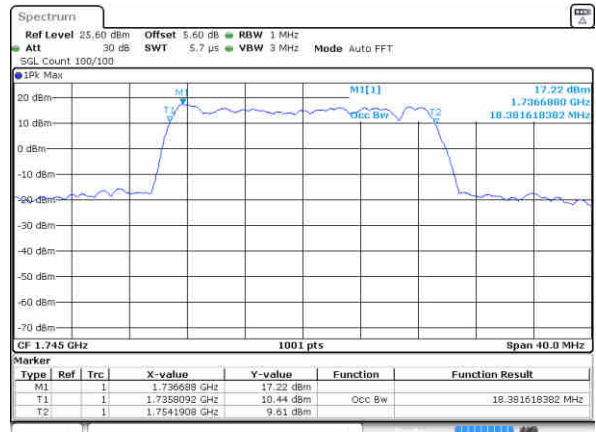
Lowest Channel / 20MHz / 64QAM



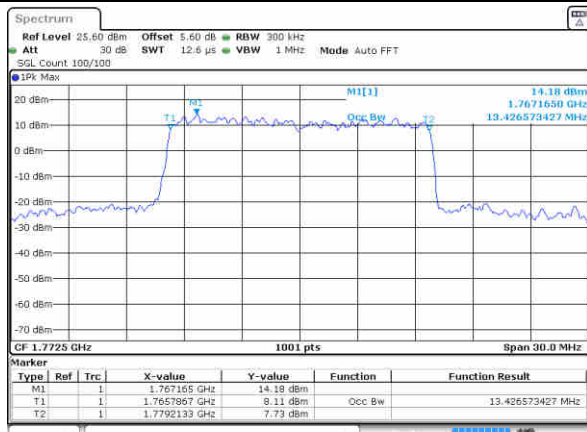
Middle Channel / 15MHz / 64QAM



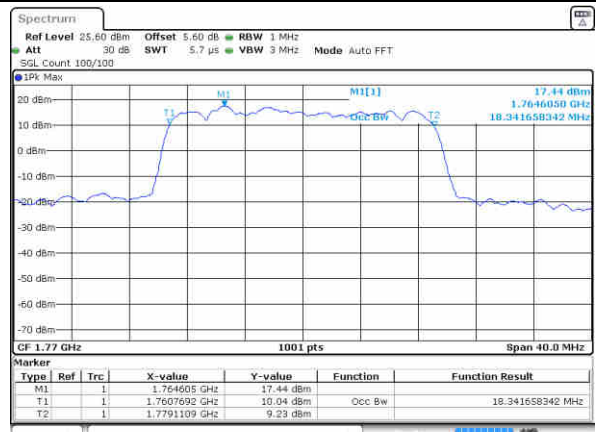
Middle Channel / 20MHz / 64QAM

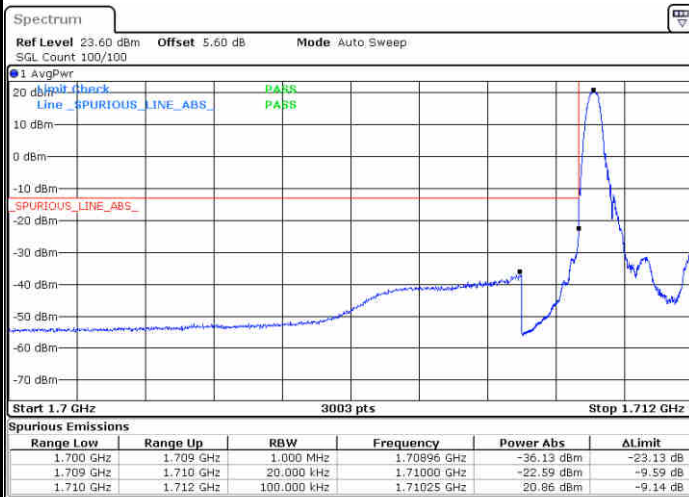
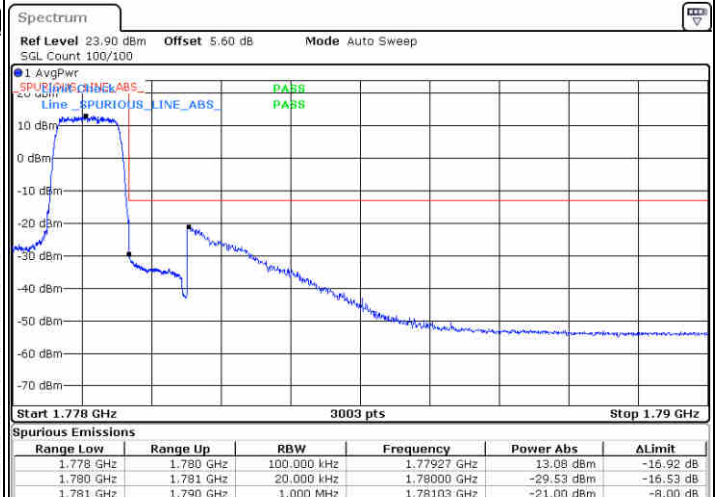


Highest Channel / 15MHz / 64QAM



Highest Channel / 20MHz / 64QAM

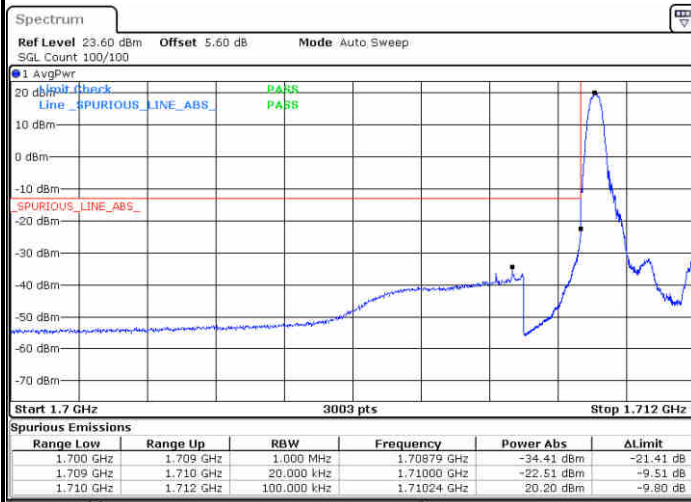


**Conducted Band Edge****LTE Band 66 / 1.4MHz / QPSK****Lowest Band Edge / 1RB****Highest Band Edge / 1RB****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**

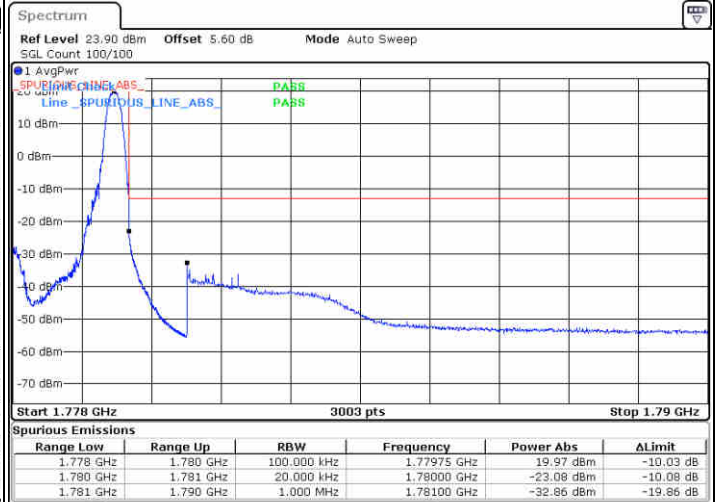


LTE Band 66 / 1.4MHz / 16QAM

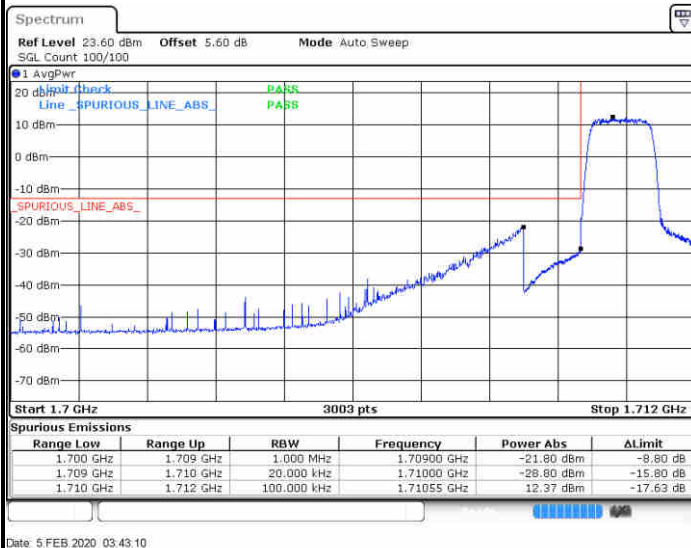
Lowest Band Edge / 1 RB



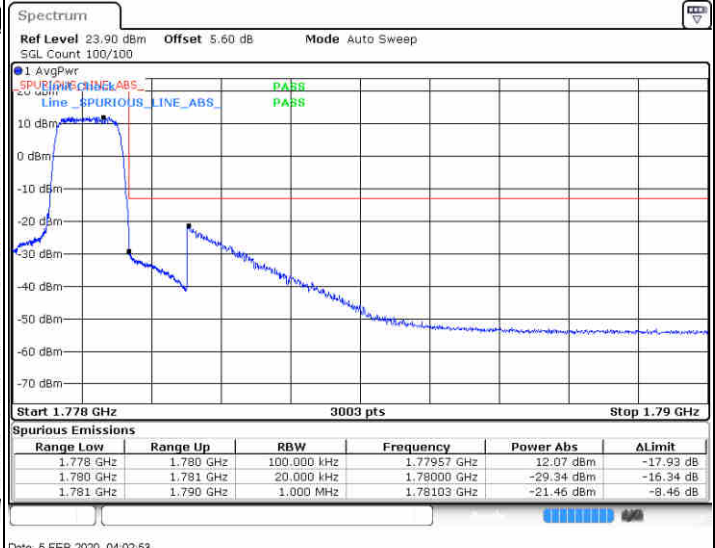
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



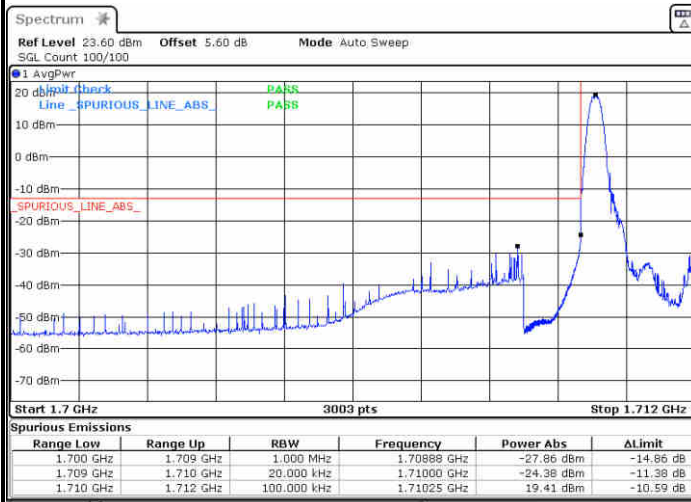
Highest Band Edge / Full RB





LTE Band 66 / 1.4MHz / 64QAM

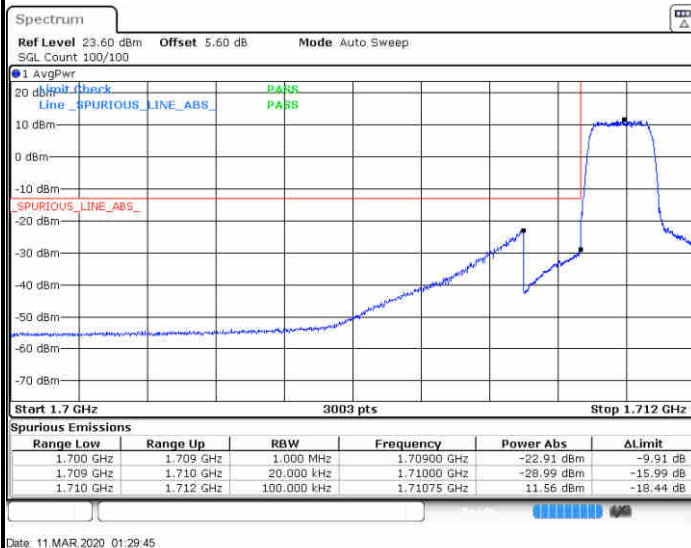
Lowest Band Edge / 1 RB



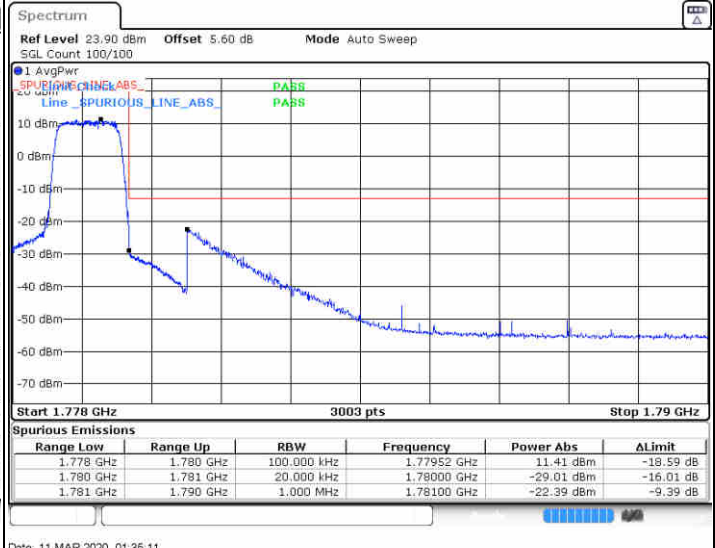
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



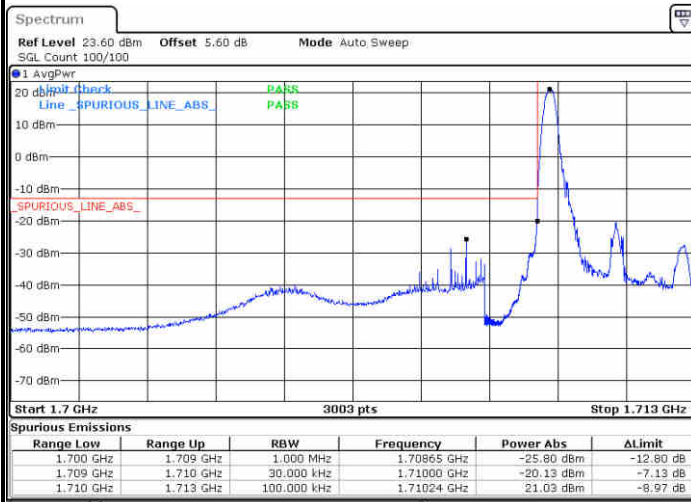
Highest Band Edge / Full RB



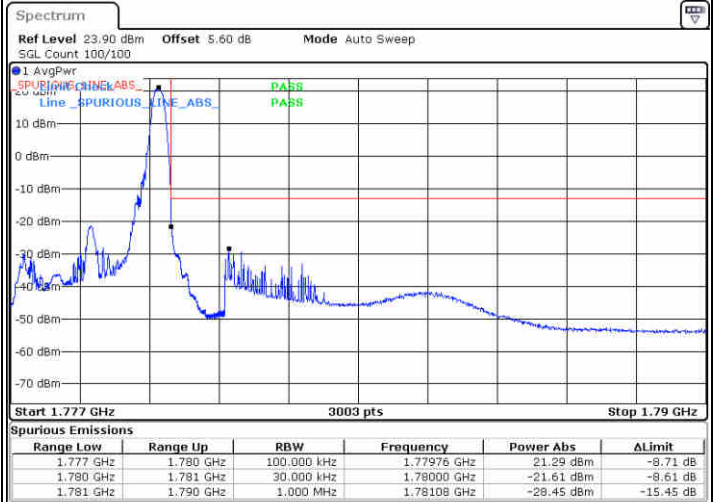


LTE Band 66 / 3MHz / QPSK

Lowest Band Edge / 1RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



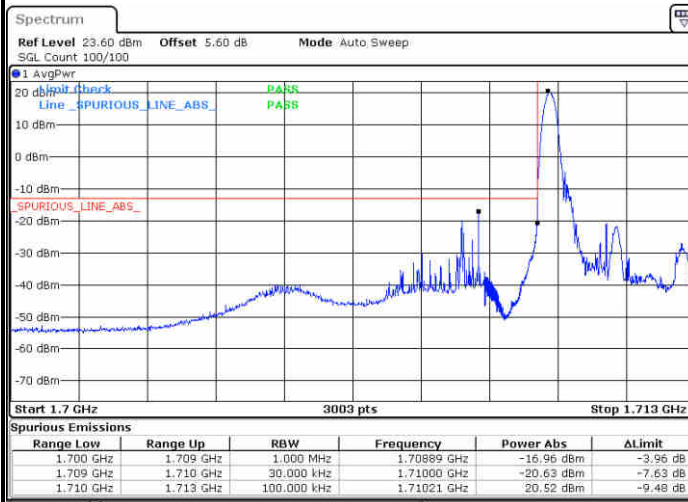
Highest Band Edge / Full RB



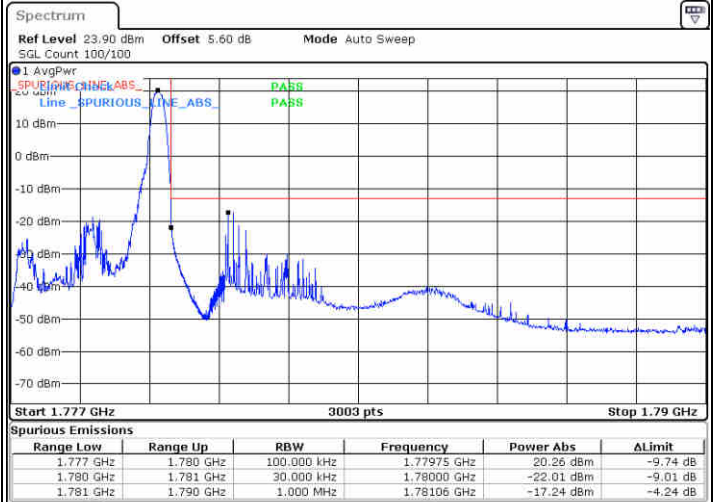


LTE Band 66 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

