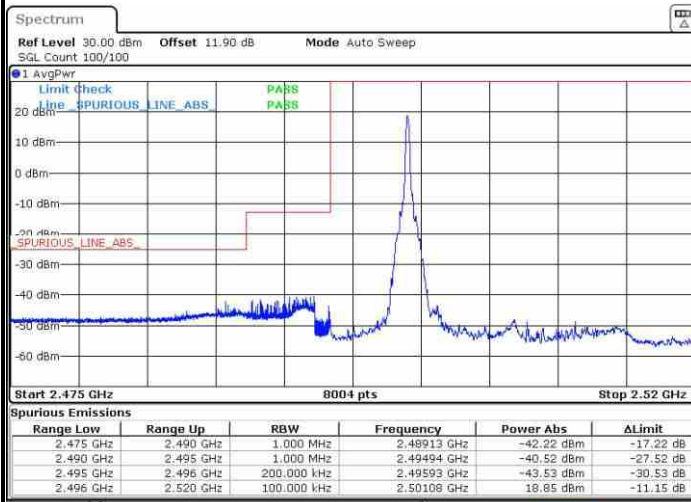


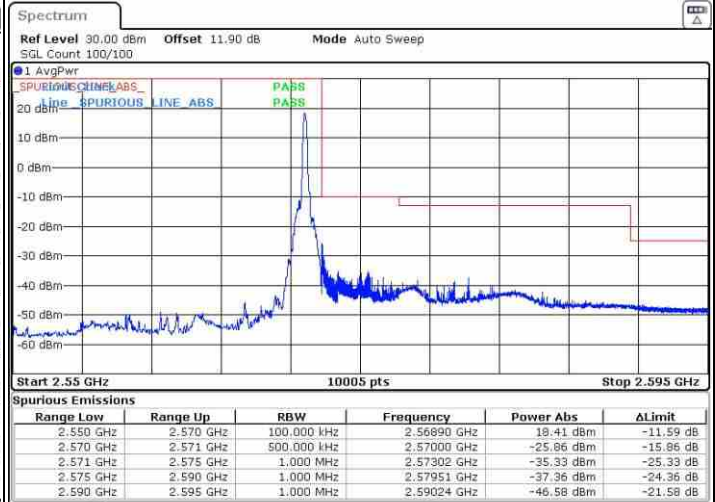


LTE Band 7 / 20MHz / 64QAM

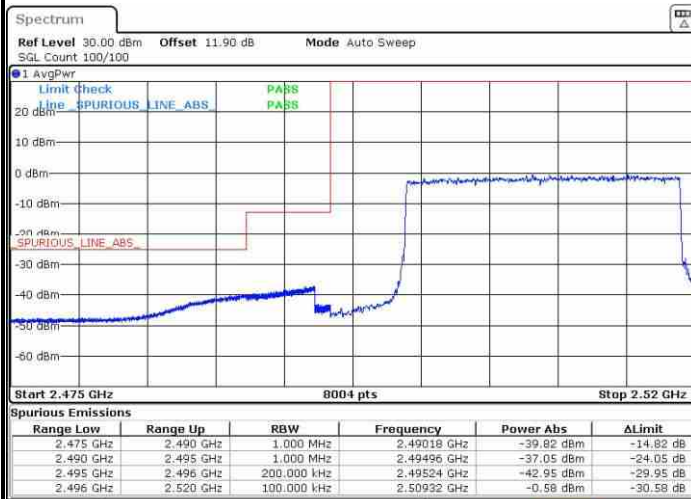
Lowest Band Edge / 1 RB



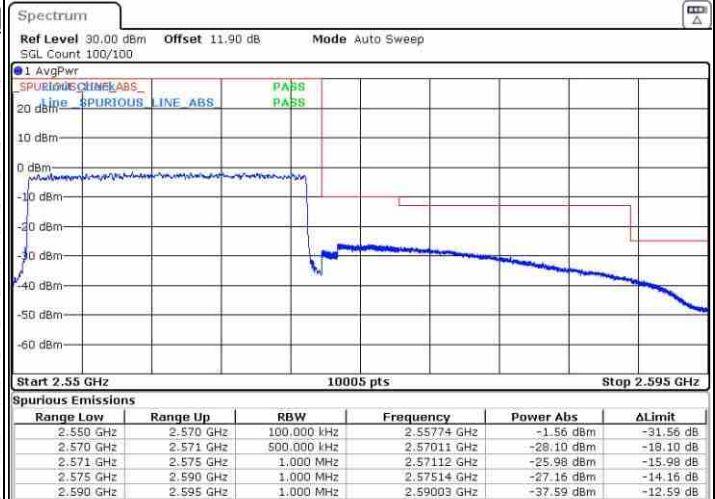
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB



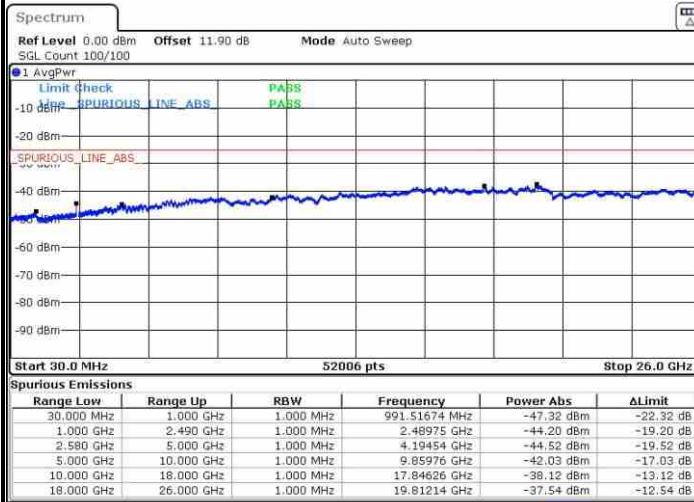


Conducted Spurious Emission



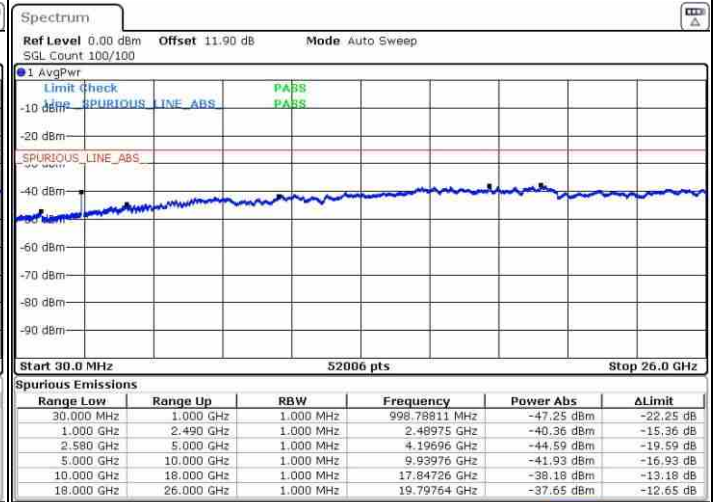
LTE Band 7 / 5MHz

Lowest Channel / QPSK



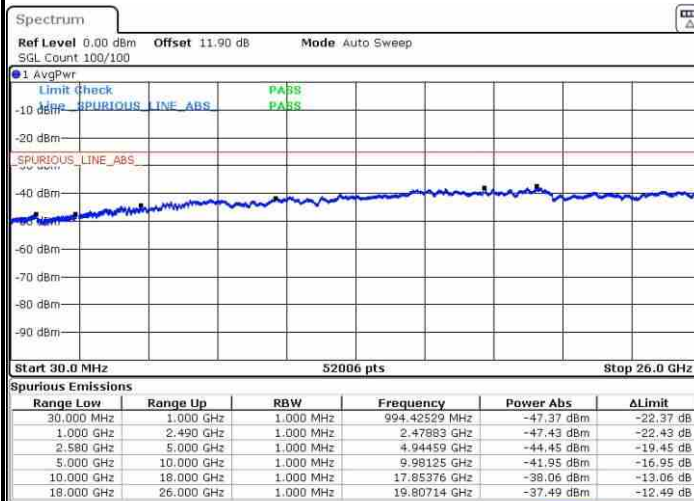
Date: 22 MAY 2019 17:00:33

Lowest Channel / 16QAM



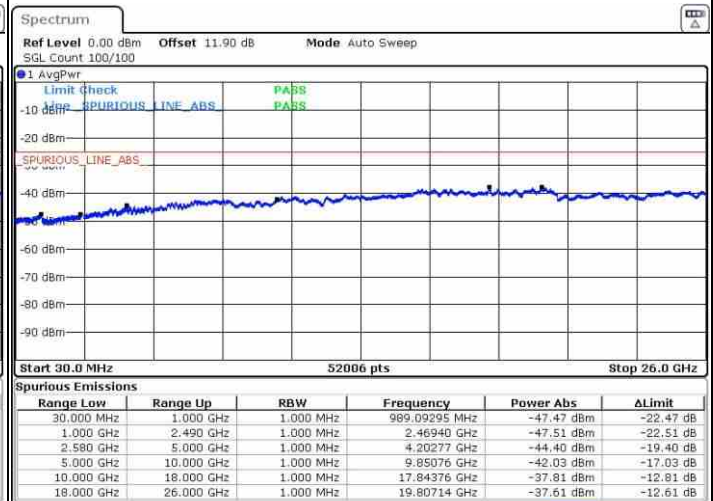
Date: 22 MAY 2019 17:01:17

Middle Channel / QPSK



Date: 22 MAY 2019 17:02:48

Middle Channel / 16QAM

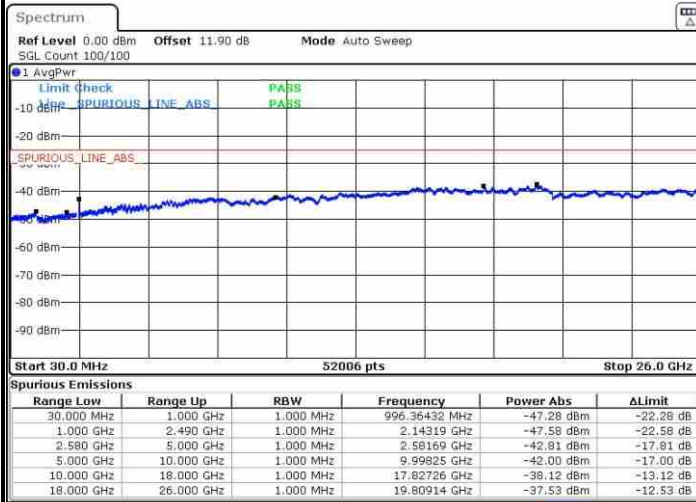


Date: 22 MAY 2019 17:03:31



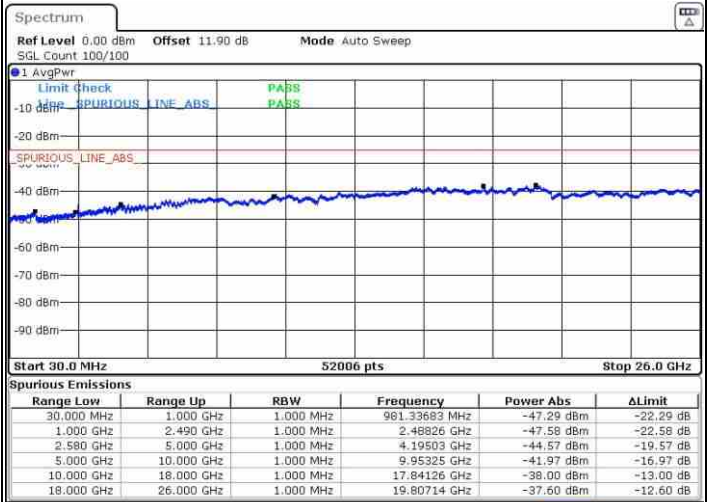
LTE Band 7 / 5MHz

Highest Channel / QPSK



Date: 22 MAY 2019 17:07:12

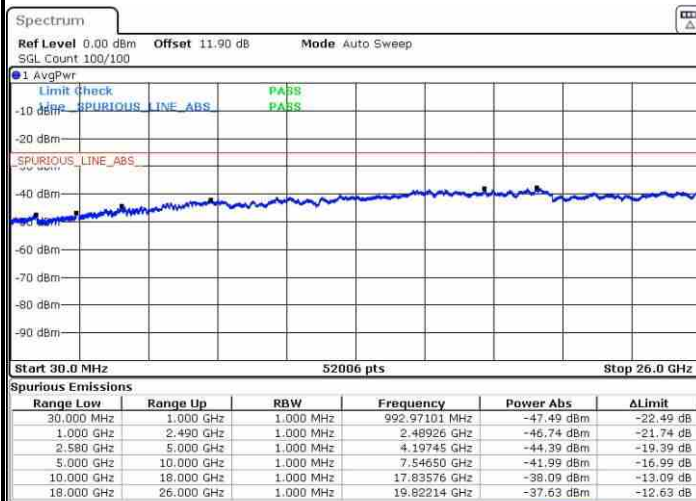
Highest Channel / 16QAM



Date: 22 MAY 2019 17:07:56

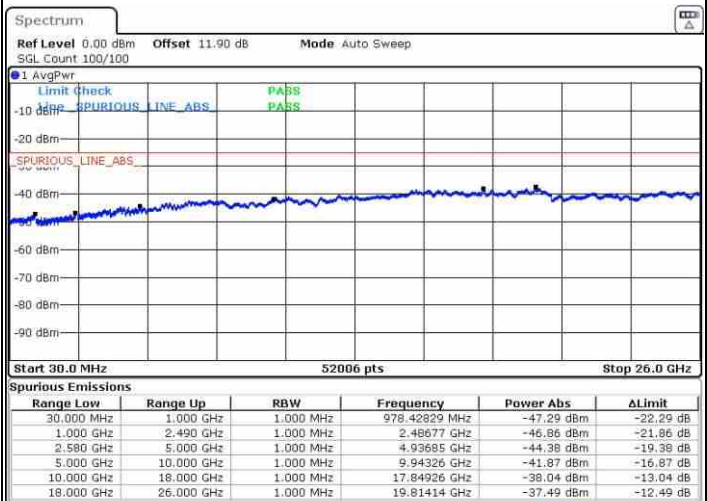
LTE Band 7 / 10MHz

Lowest Channel / QPSK



Date: 22 MAY 2019 17:17:08

Lowest Channel / 16QAM

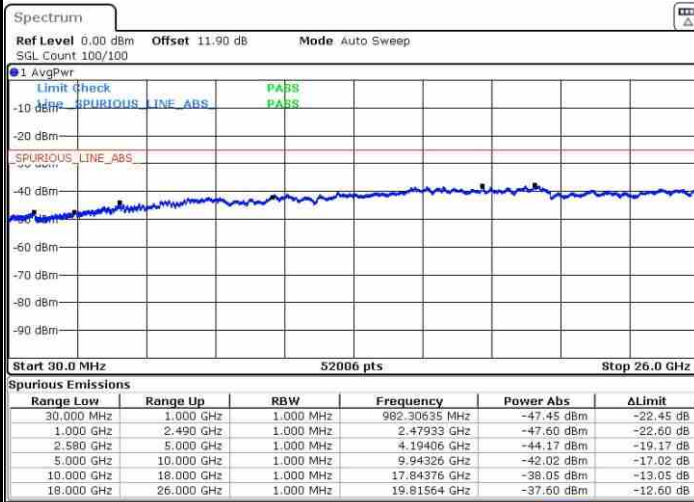


Date: 22 MAY 2019 17:17:52



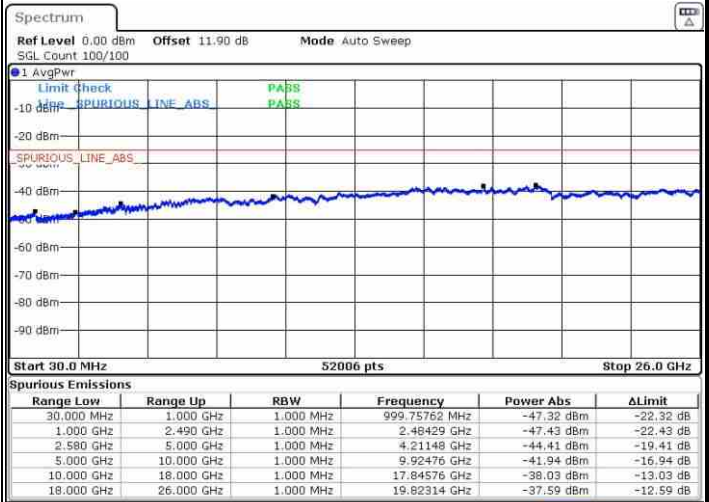
LTE Band 7 / 10MHz

Middle Channel / QPSK



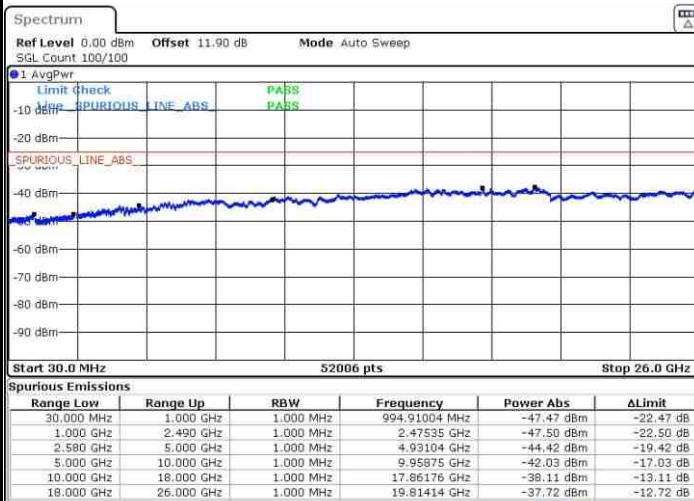
Date: 22 MAY 2019 17:19:23

Middle Channel / 16QAM



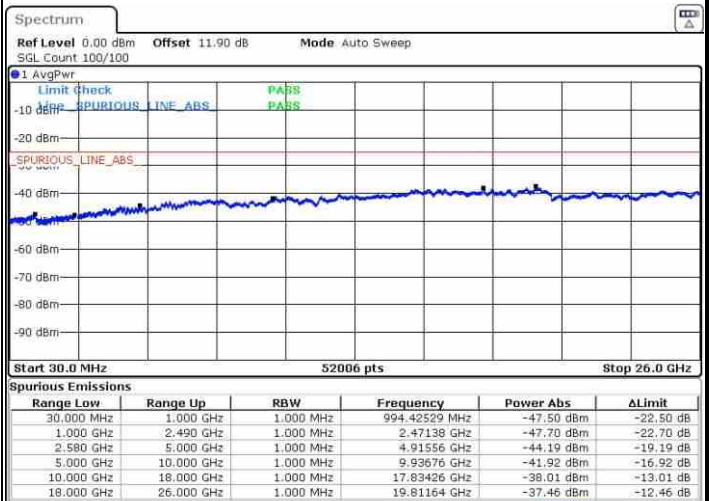
Date: 22 MAY 2019 17:20:06

Highest Channel / QPSK



Date: 22 MAY 2019 17:23:46

Highest Channel / 16QAM

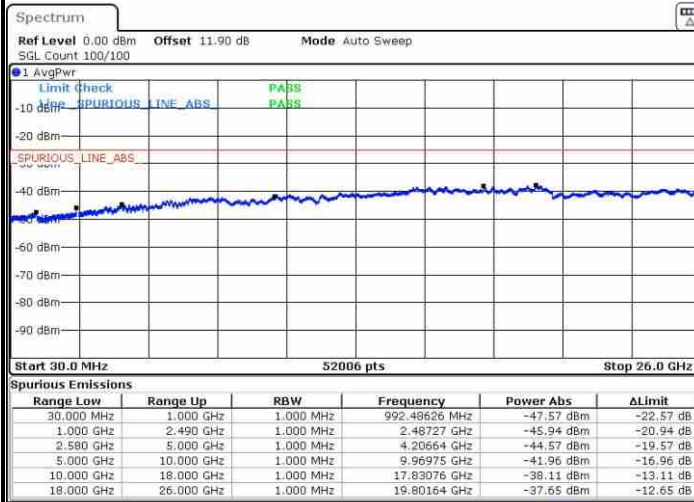


Date: 22 MAY 2019 17:24:31



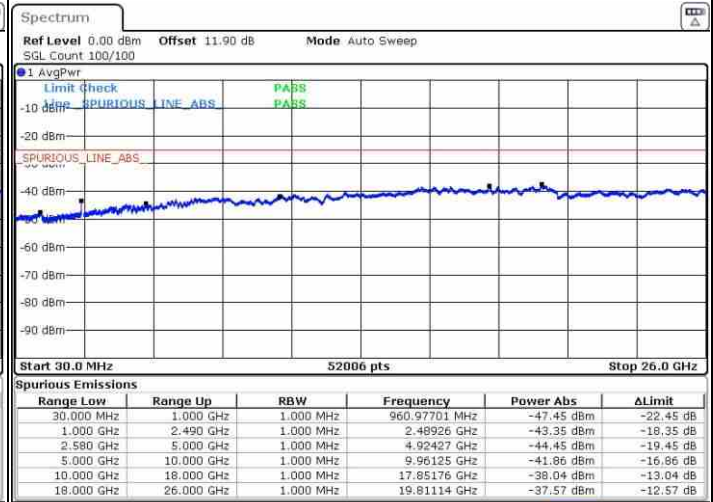
LTE Band 7 / 15MHz

Lowest Channel / QPSK



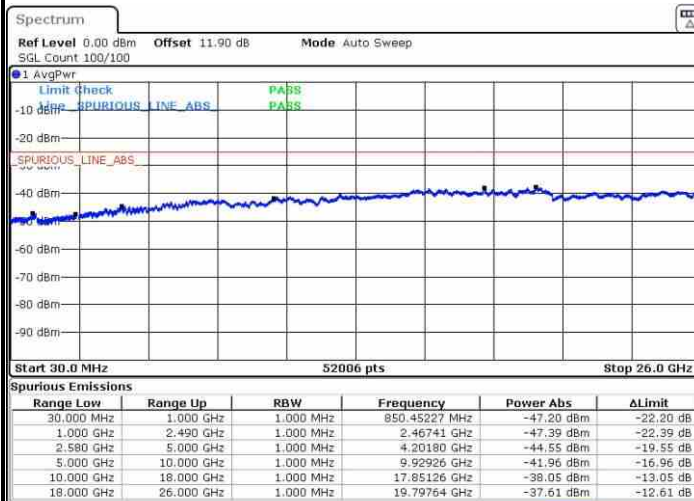
Date: 22 MAY 2019 17:33:43

Lowest Channel / 16QAM



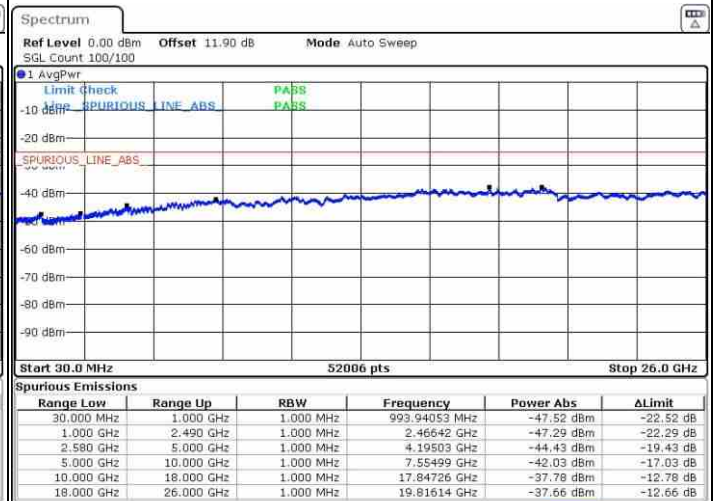
Date: 22 MAY 2019 17:34:27

Middle Channel / QPSK



Date: 22 MAY 2019 17:35:58

Middle Channel / 16QAM

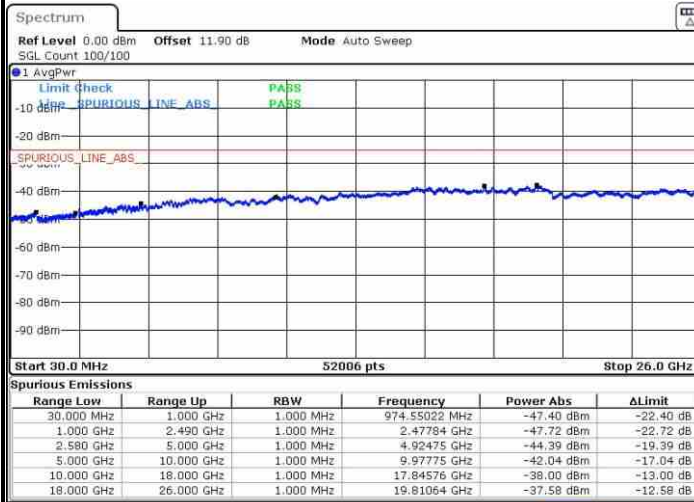


Date: 22 MAY 2019 17:36:41



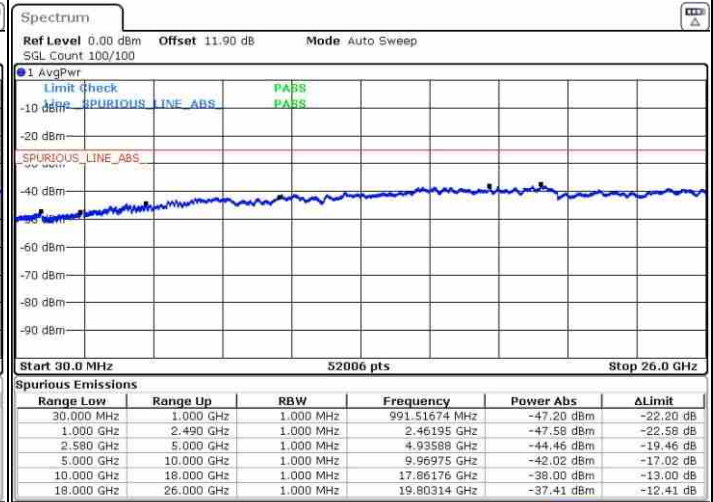
LTE Band 7 / 15MHz

Highest Channel / QPSK



Date: 22 MAY 2019 17:40:22

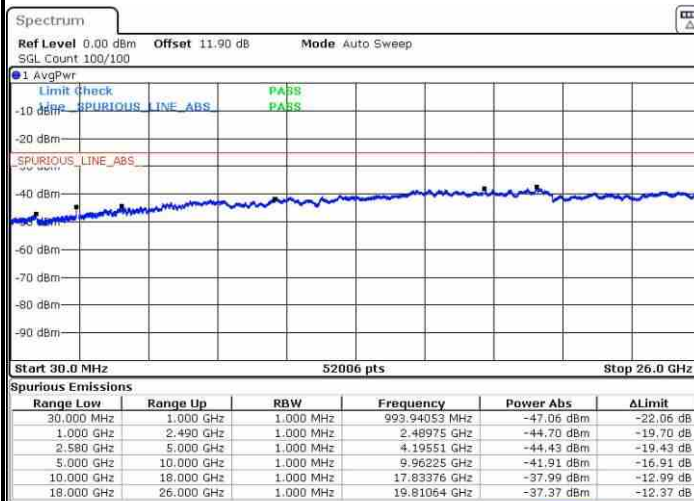
Highest Channel / 16QAM



Date: 22 MAY 2019 17:41:06

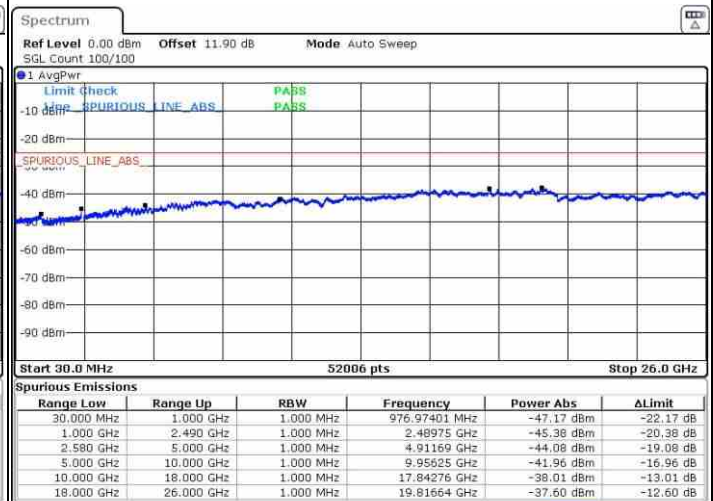
LTE Band 7 / 20MHz

Lowest Channel / QPSK



Date: 22 MAY 2019 17:50:18

Lowest Channel / 16QAM

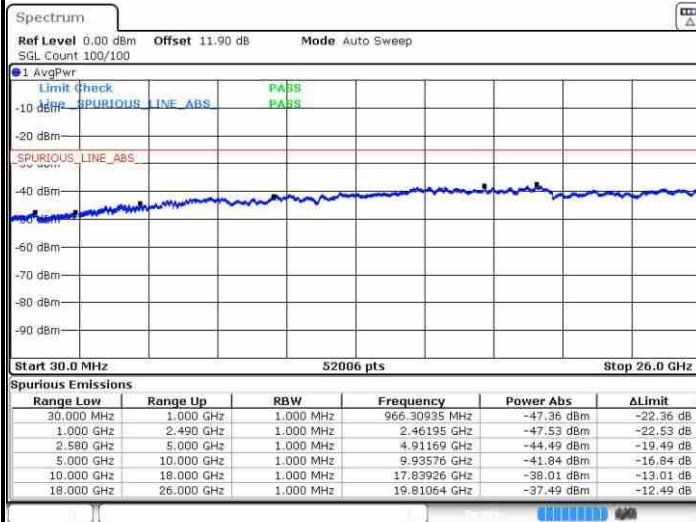


Date: 22 MAY 2019 17:51:02



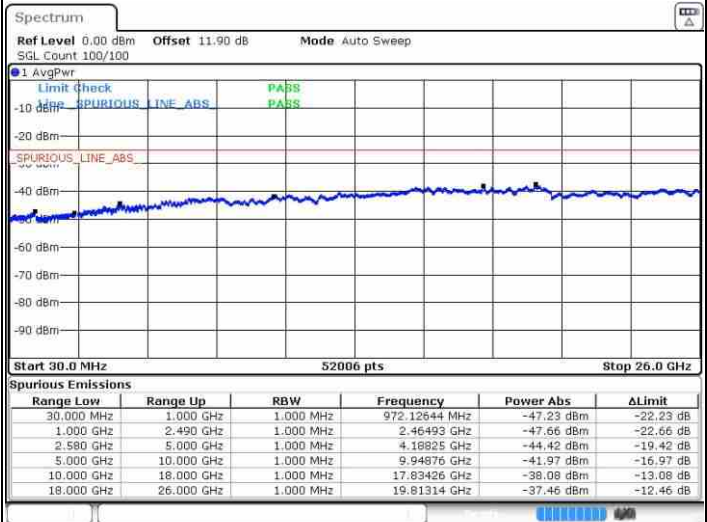
LTE Band 7 / 20MHz

Middle Channel / QPSK



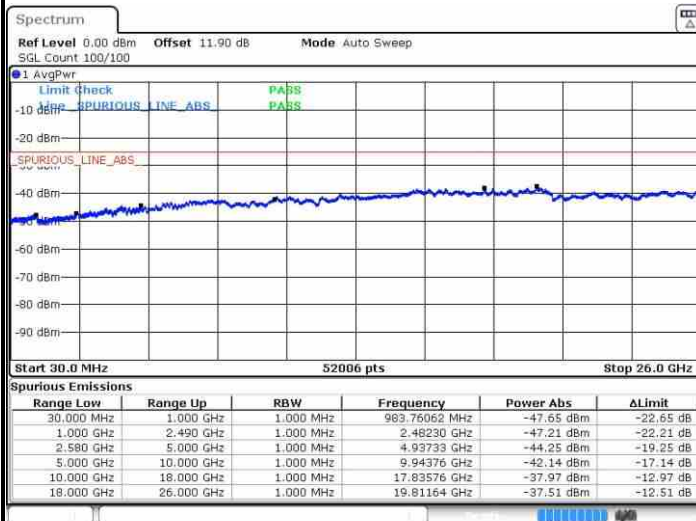
Date: 22 MAY 2019 18:13:10

Middle Channel / 16QAM



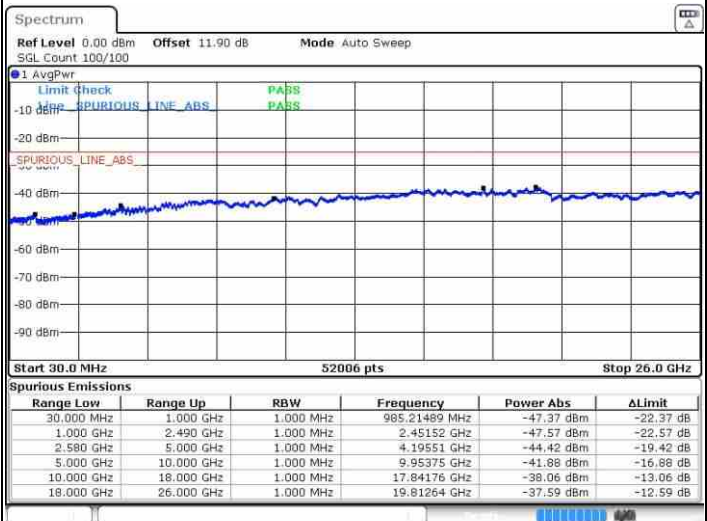
Date: 22 MAY 2019 18:13:55

Highest Channel / QPSK



Date: 22 MAY 2019 18:17:38

Highest Channel / 16QAM

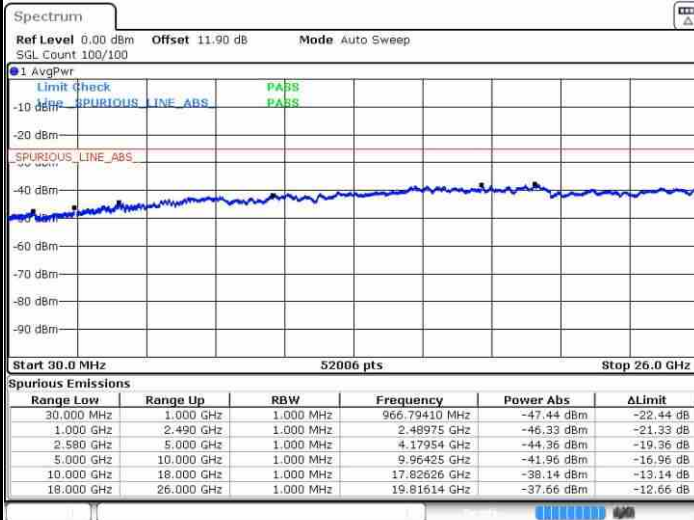


Date: 22 MAY 2019 18:18:24



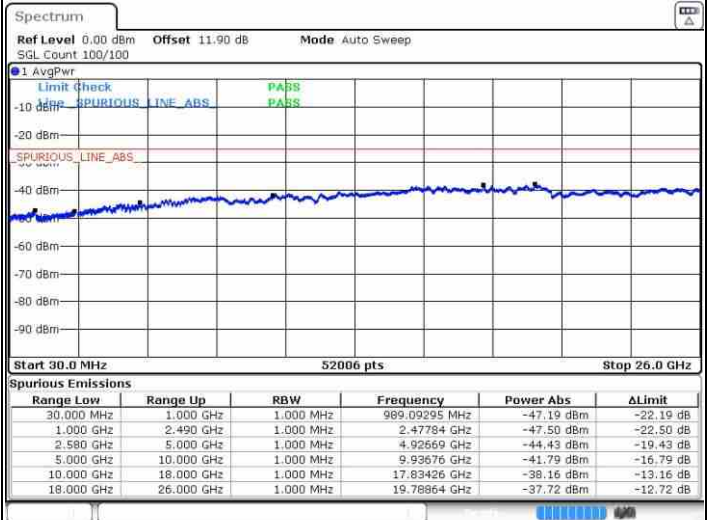
LTE Band 7 / 5MHz

Lowest Channel / 64QAM



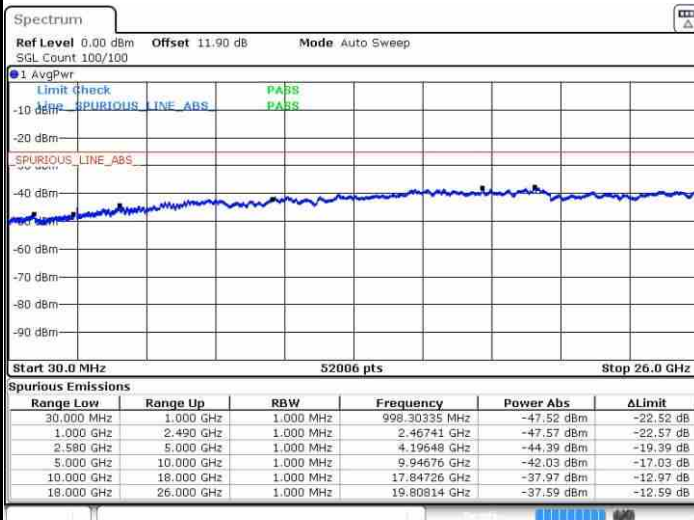
Date: 22 MAY 2019 17:10:08

Middle Channel / 64QAM



Date: 22 MAY 2019 17:11:15

Highest Channel / 64QAM

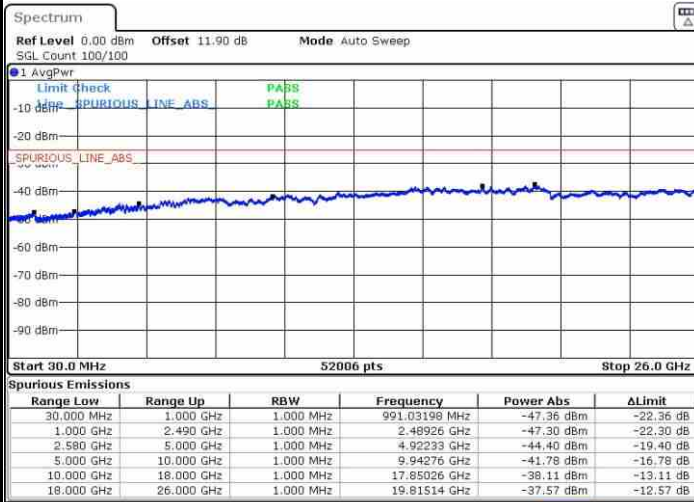


Date: 22 MAY 2019 17:13:27



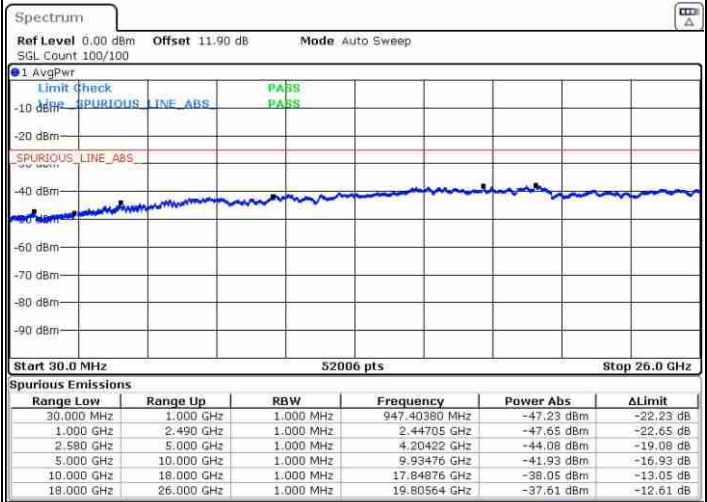
LTE Band 7 / 10MHz

Lowest Channel / 64QAM



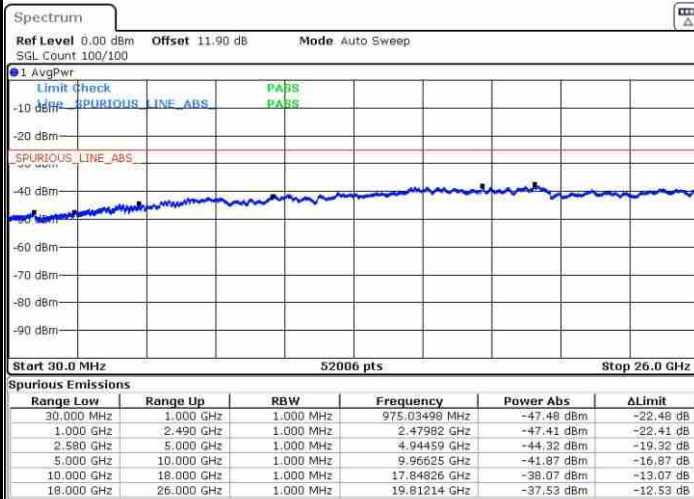
Date: 22 MAY 2019 17:26:43

Middle Channel / 64QAM



Date: 22 MAY 2019 17:27:50

Highest Channel / 64QAM

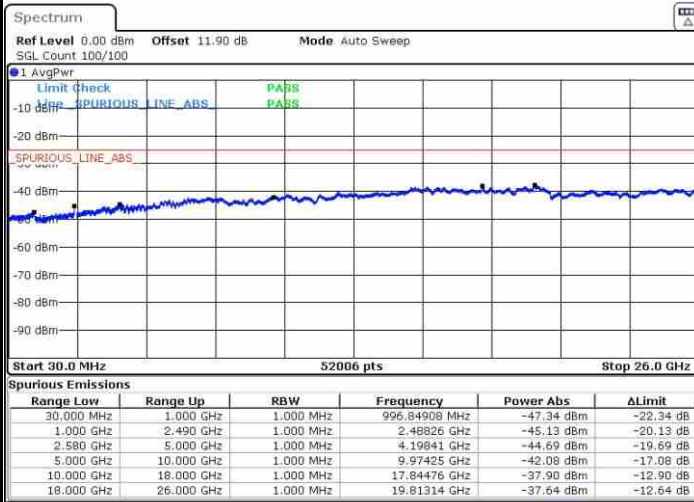


Date: 22 MAY 2019 17:30:02



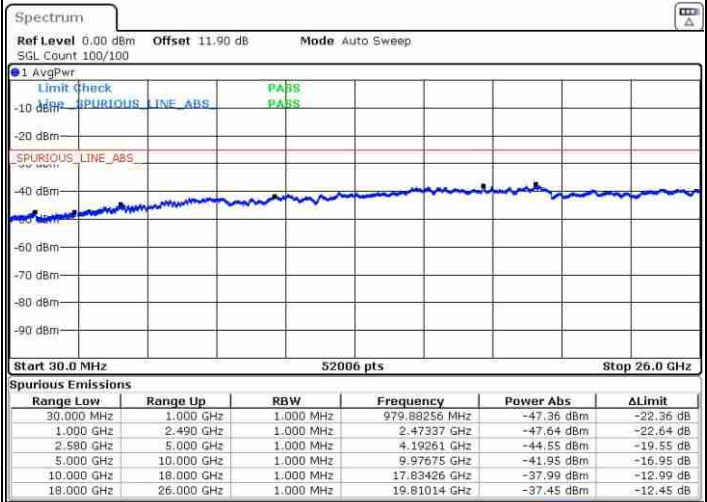
LTE Band 7 / 15MHz

Lowest Channel / 64QAM



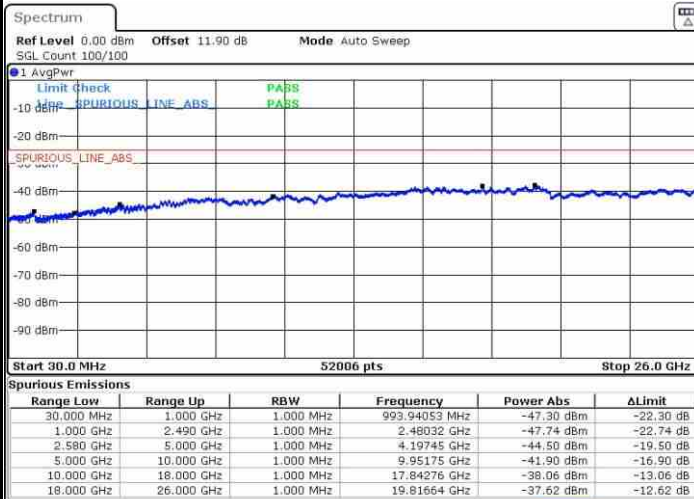
Date: 22 MAY 2019 17:43:18

Middle Channel / 64QAM



Date: 22 MAY 2019 17:44:25

Highest Channel / 64QAM

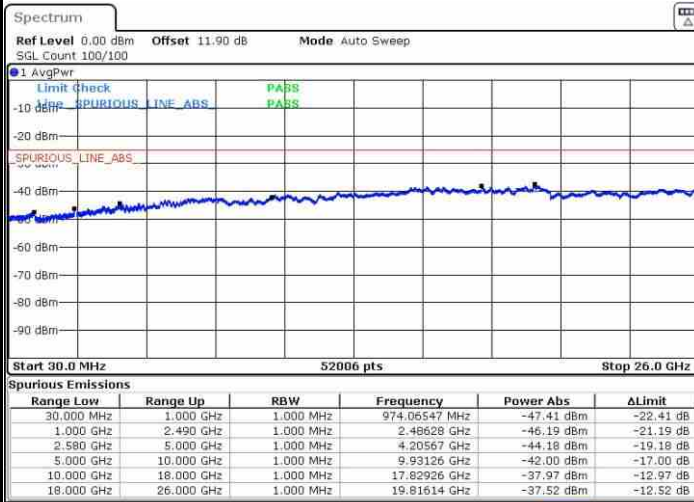


Date: 22 MAY 2019 17:46:37



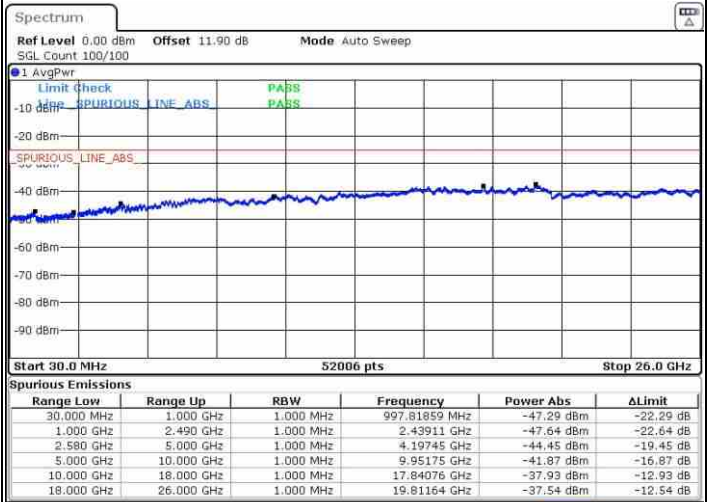
LTE Band 7 / 20MHz

Lowest Channel / 64QAM



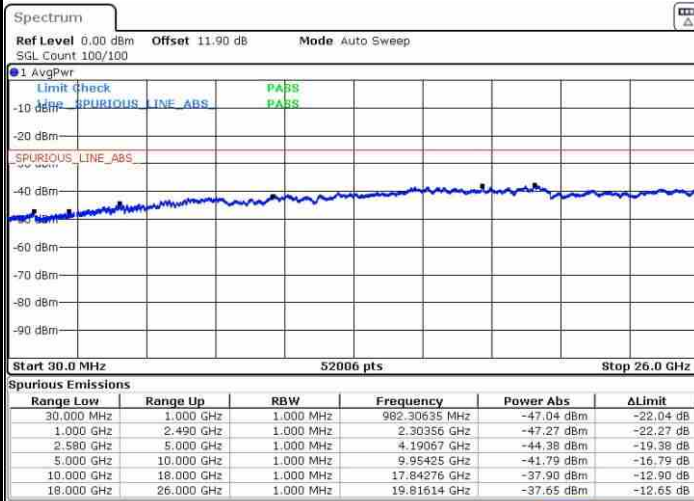
Date: 22 MAY 2019 18:20:38

Middle Channel / 64QAM



Date: 22 MAY 2019 18:21:47

Highest Channel / 64QAM



Date: 22 MAY 2019 18:24:00

Frequency Stability

Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0001	PASS
40	Normal Voltage	0.0001	
30	Normal Voltage	0.0006	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0001	
0	Normal Voltage	0.0029	
-10	Normal Voltage	0.0006	
-20	Normal Voltage	0.0029	
-30	Normal Voltage	0.0023	
20	Maximum Voltage	0.0011	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0009	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.65 V. ; Maximum Voltage =4.35 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 7C

26dB Bandwidth

Mode	LTE Band 7C : 26dB BW(MHz)			
QPSK				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Lowest CH	29.91	25.27	30.56	34.82
Middle CH	29.85	25.12	30.50	34.82
Highest CH	29.79	25.22	30.45	34.82
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Lowest CH	30.21	34.82	39.79	-
Middle CH	29.97	34.75	39.72	-
Highest CH	30.03	35.03	39.88	-

Mode	LTE Band 7C : 26dB BW(MHz)			
16QAM				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Lowest CH	29.79	25.32	30.56	34.89
Middle CH	29.91	25.27	30.50	34.89
Highest CH	29.97	25.22	30.56	34.82
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Lowest CH	29.97	34.89	39.88	-
Middle CH	30.15	34.89	39.72	-
Highest CH	29.91	34.96	39.79	-

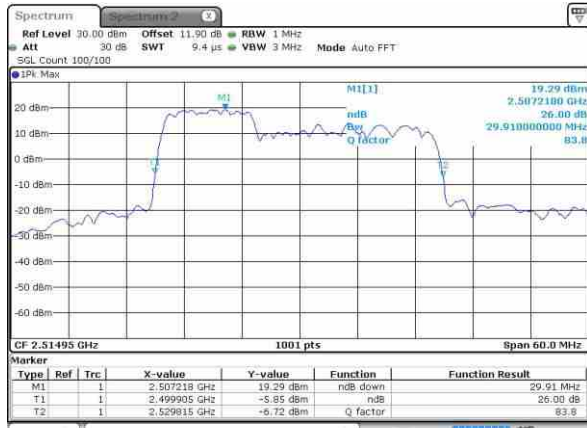
Mode	LTE Band 7C : 26dB BW(MHz)			
64QAM				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Lowest CH	29.85	25.12	30.45	34.75
Middle CH	29.79	25.12	30.56	34.89
Highest CH	29.67	25.22	30.62	34.75
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Lowest CH	29.97	34.82	39.79	-
Middle CH	29.91	34.89	39.88	-
Highest CH	29.97	34.89	39.64	-



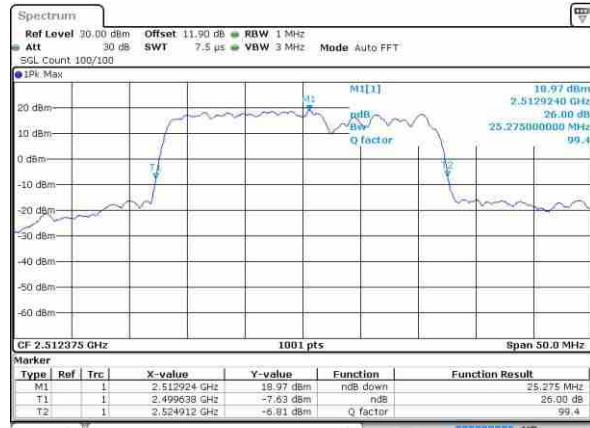
LTE Band 7C

QPSK

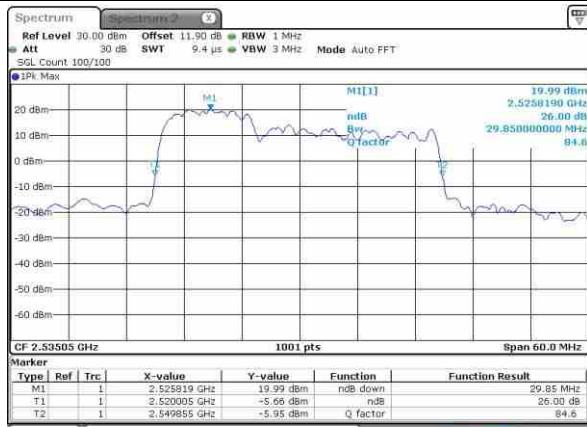
Lowest Channel / 10MHz+20MHz



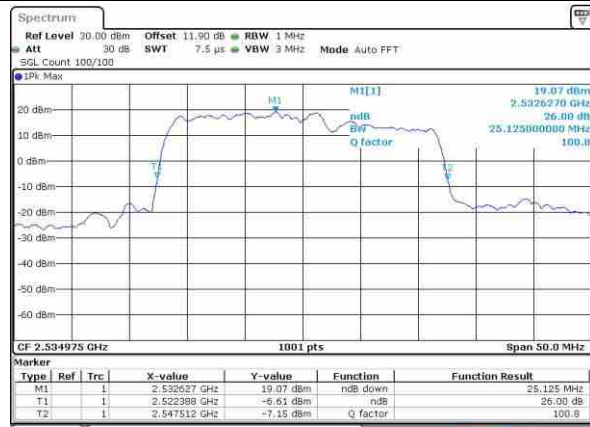
Lowest Channel / 15MHz+10MHz



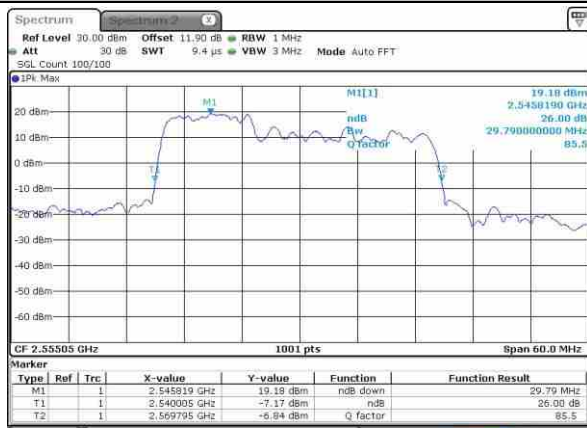
Middle Channel / 10MHz+20MHz



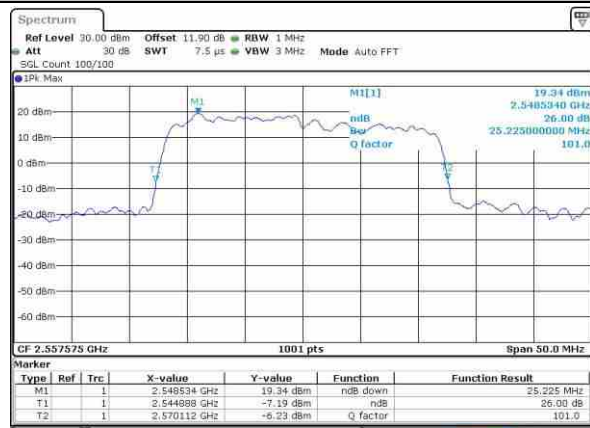
Middle Channel / 15MHz+10MHz



Highest Channel / 10MHz+20MHz



Highest Channel / 15MHz+10MHz

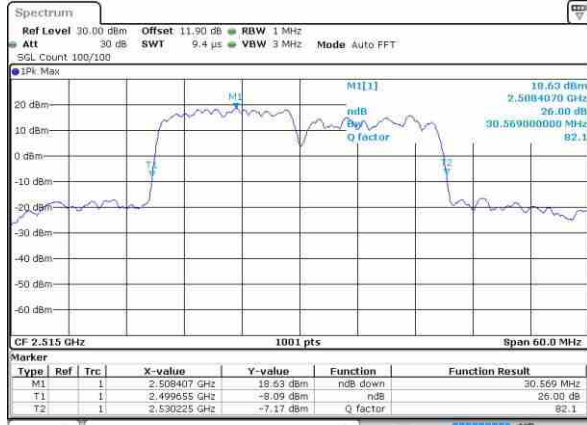




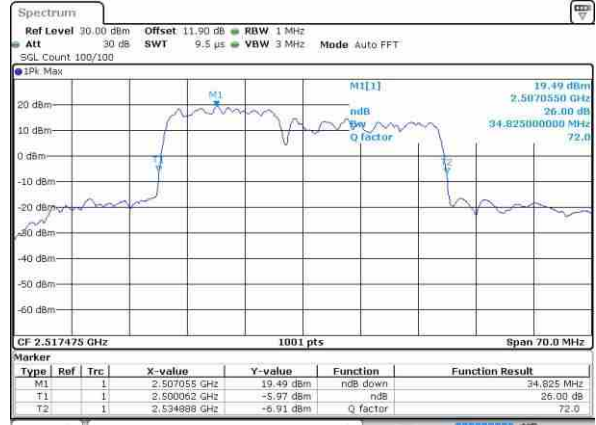
LTE Band 7C

QPSK

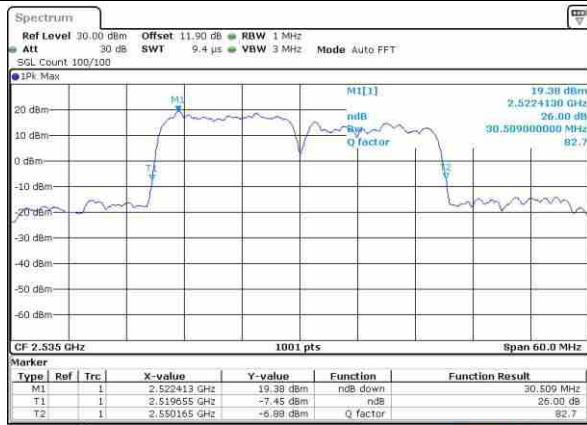
Lowest Channel / 15MHz+15MHz



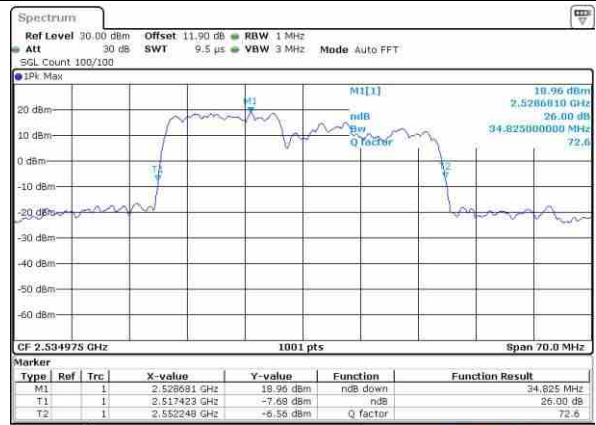
Lowest Channel / 15MHz+20MHz



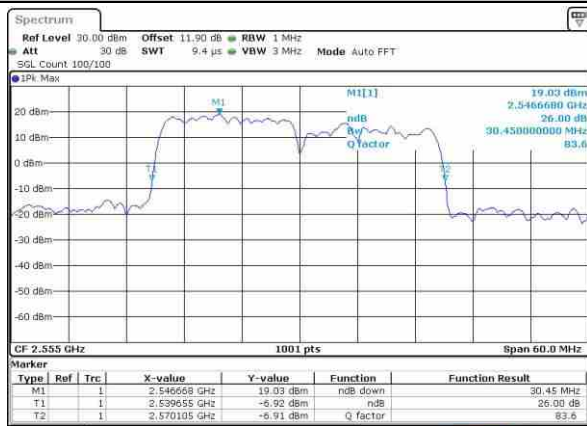
Middle Channel / 15MHz+15MHz



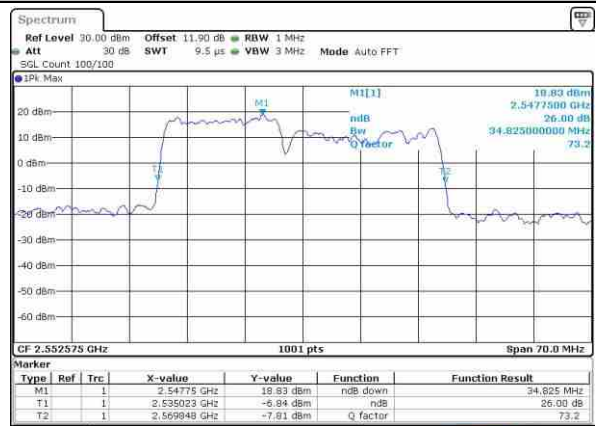
Middle Channel / 15MHz+20MHz



Highest Channel / 15MHz+15MHz



Highest Channel / 15MHz+20MHz

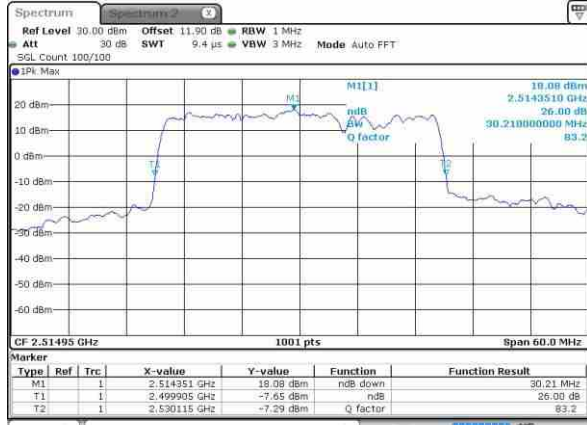




LTE Band 7C

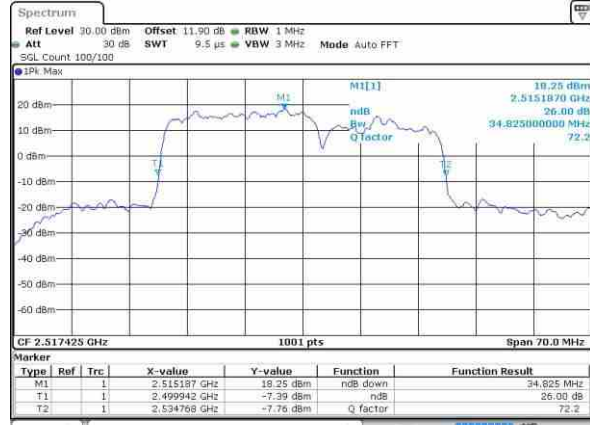
QPSK

Lowest Channel / 20MHz+10MHz



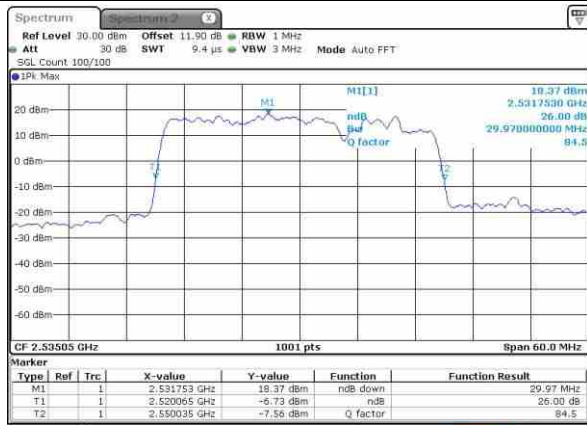
Date: 19 JUN 2019 00:24:13

Lowest Channel / 20MHz+15MHz



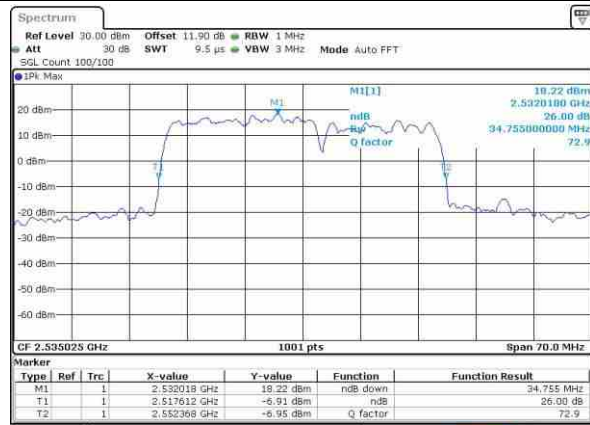
Date: 20 JUN 2019 16:47:58

Middle Channel / 20MHz+10MHz



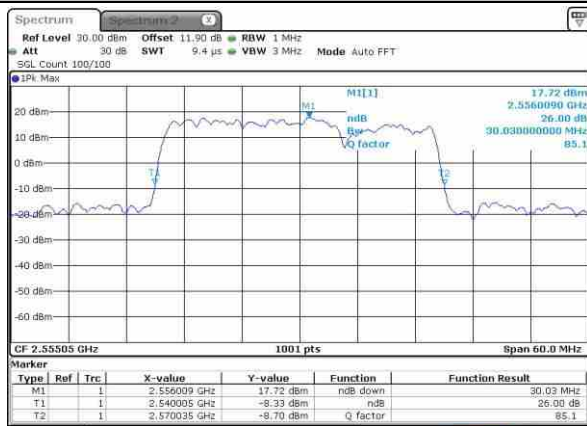
Date: 19 JUN 2019 00:54:58

Middle Channel / 20MHz+15MHz



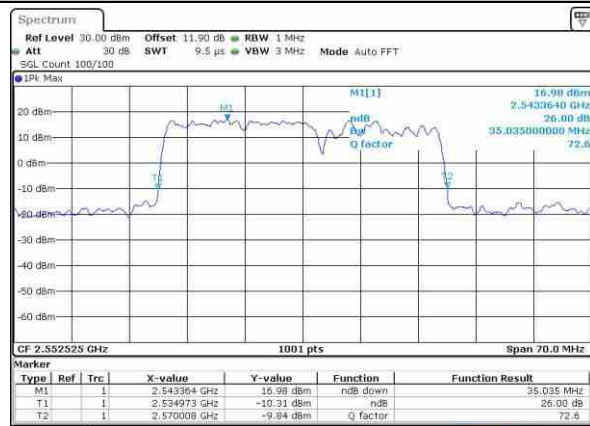
Date: 21 JUN 2019 13:52:08

Highest Channel / 20MHz+10MHz



Date: 19 JUN 2019 01:13:48

Highest Channel / 20MHz+15MHz



Date: 20 JUN 2019 17:58:25

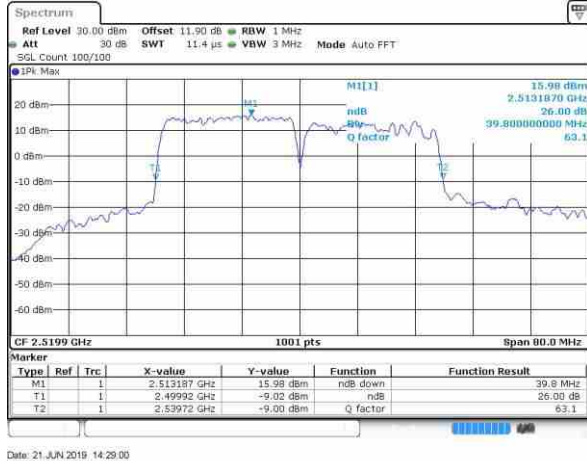


LTE Band 7C

QPSK

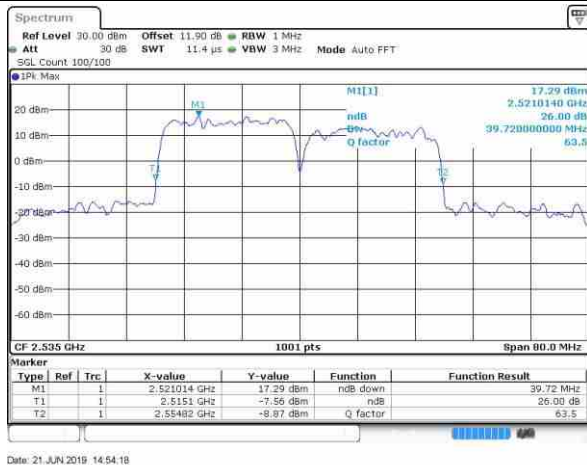
Lowest Channel / 20MHz+20MHz

N/A



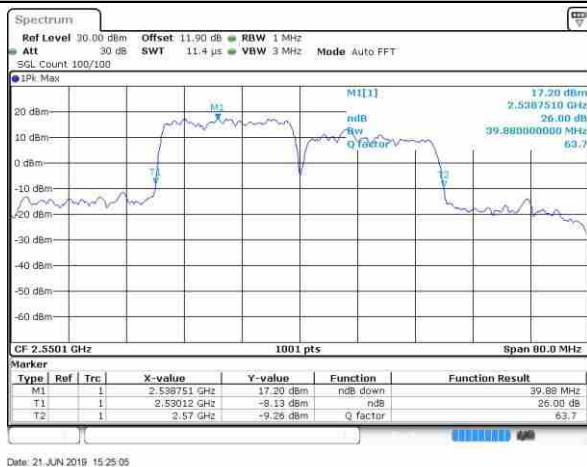
Middle Channel / 20MHz+20MHz

N/A



Highest Channel / 20MHz+20MHz

N/A

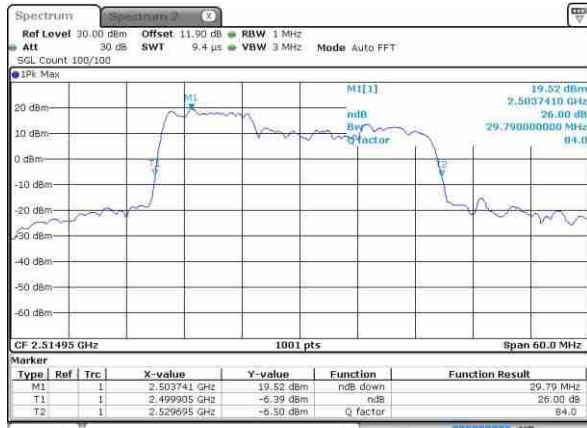




LTE Band 7C

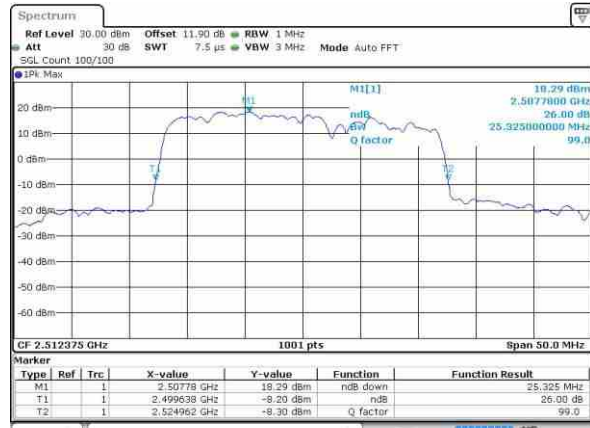
16QAM

Lowest Channel / 10MHz+20MHz



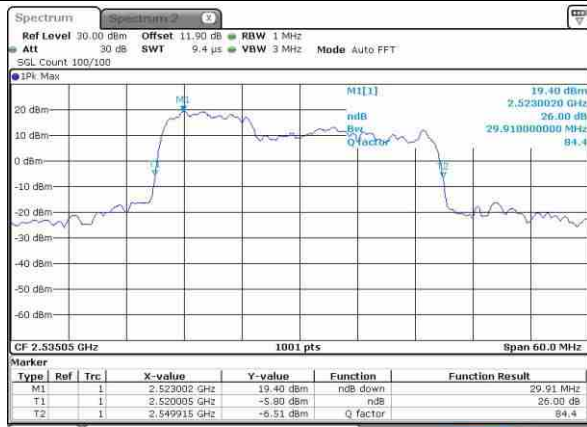
Date: 18 JUN 2019 22:47:24

Lowest Channel / 15MHz+10MHz



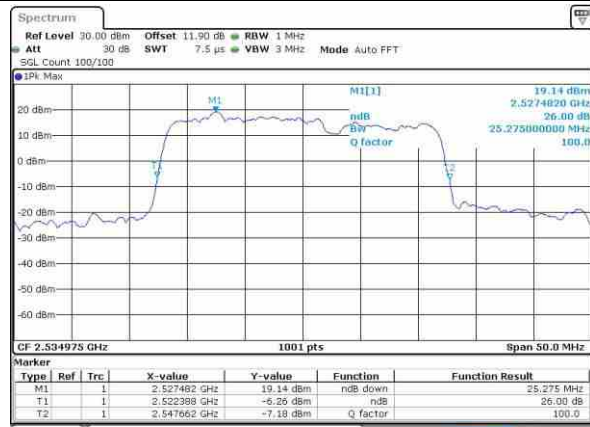
Date: 21 JUN 2019 15:45:13

Middle Channel / 10MHz+20MHz



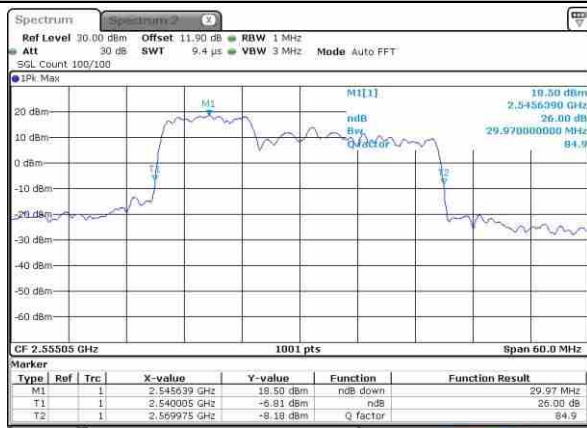
Date: 18 JUN 2019 23:27:26

Middle Channel / 15MHz+10MHz



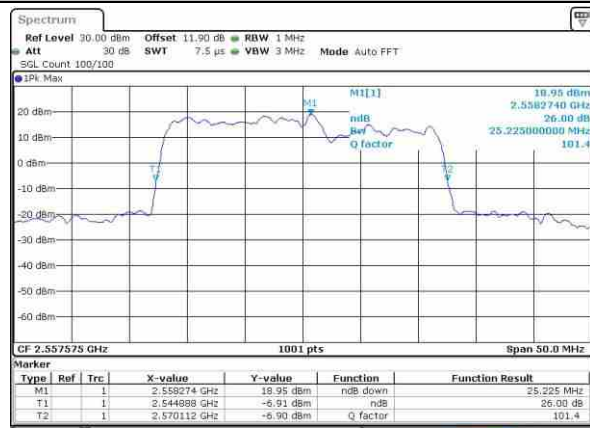
Date: 21 JUN 2019 16:03:35

Highest Channel / 10MHz+20MHz



Date: 18 JUN 2019 23:48:34

Highest Channel / 15MHz+10MHz



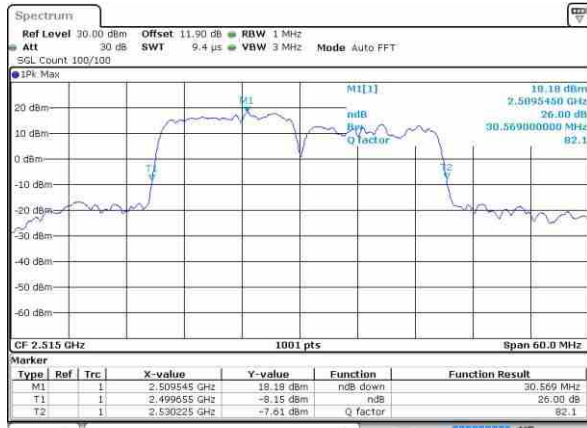
Date: 21 JUN 2019 16:22:44



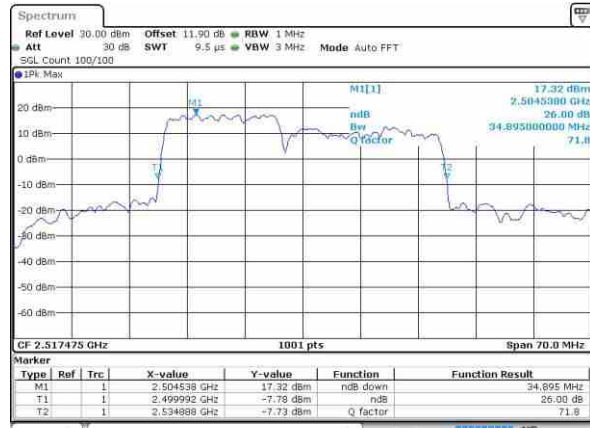
LTE Band 7C

16QAM

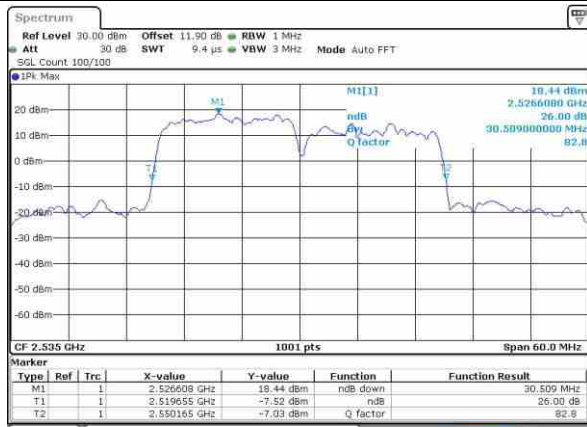
Lowest Channel / 15MHz+15MHz



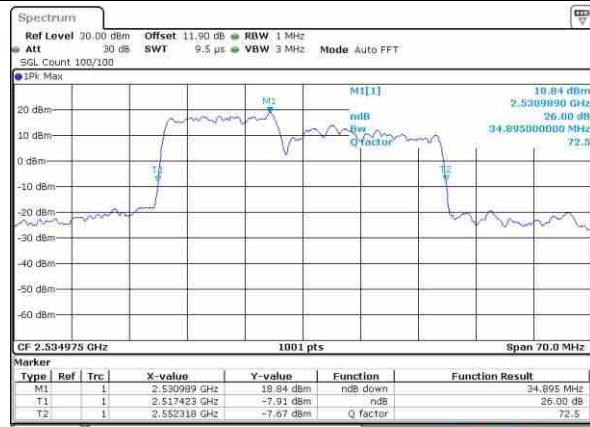
Lowest Channel / 15MHz+20MHz



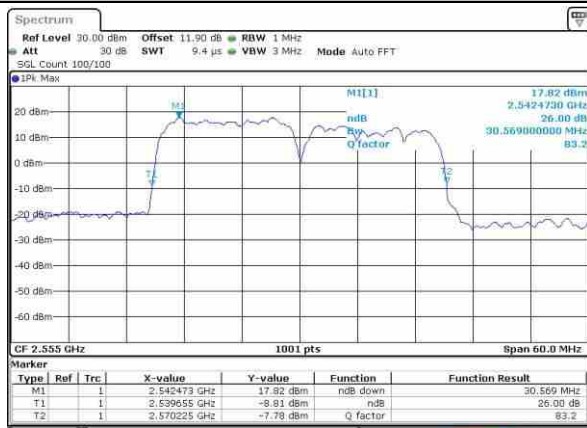
Middle Channel / 15MHz+15MHz



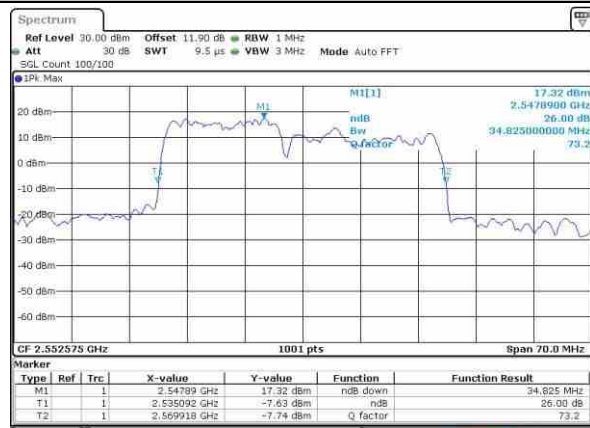
Middle Channel / 15MHz+20MHz



Highest Channel / 15MHz+15MHz



Highest Channel / 15MHz+20MHz

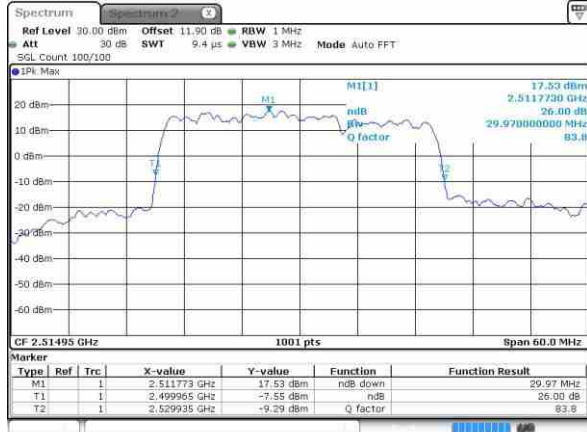




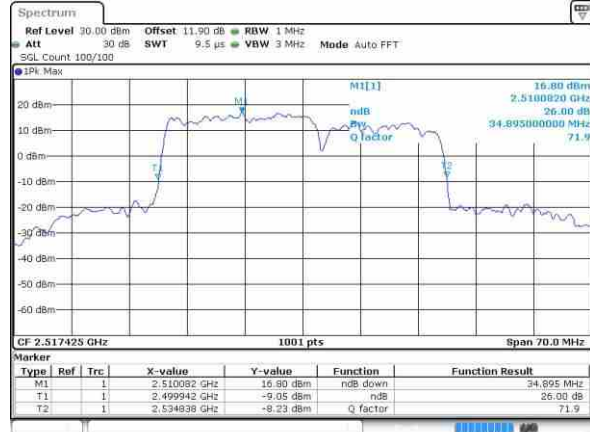
LTE Band 7C

16QAM

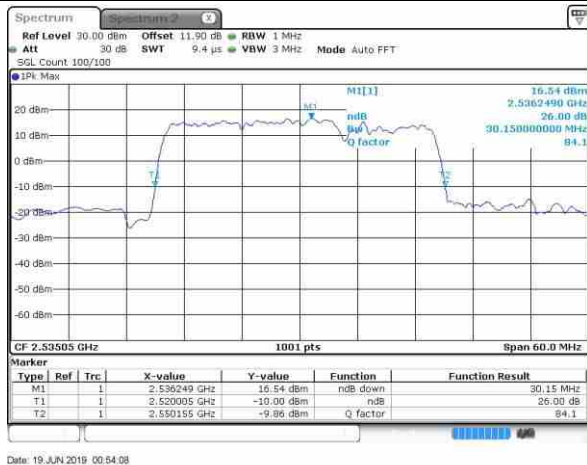
Lowest Channel / 20MHz+10MHz



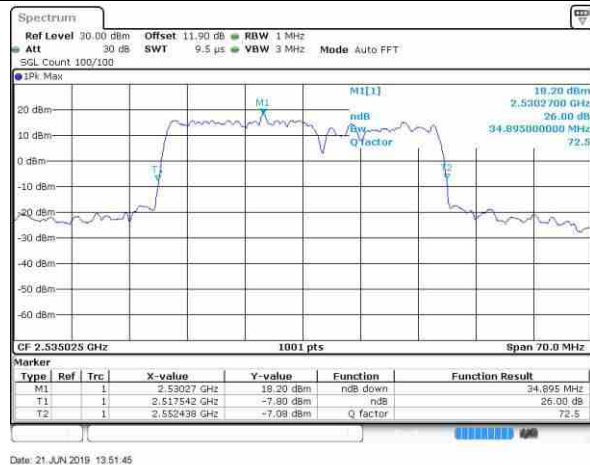
Lowest Channel / 20MHz+15MHz



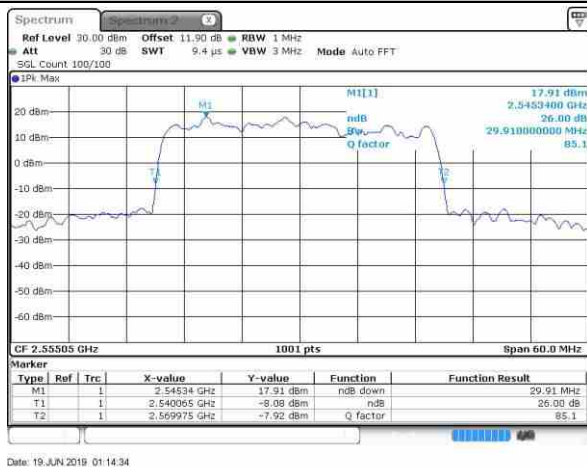
Middle Channel / 20MHz+10MHz



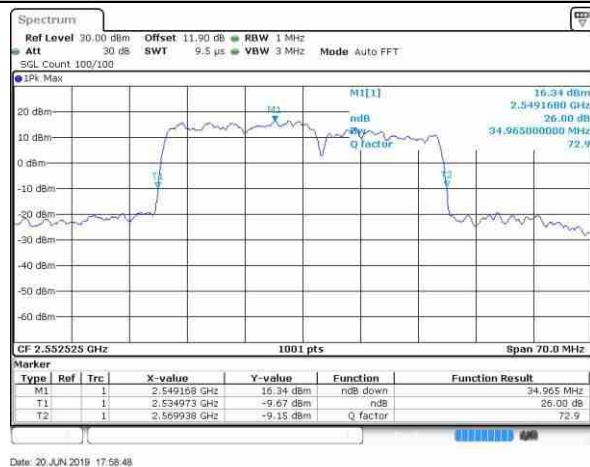
Middle Channel / 20MHz+15MHz



Highest Channel / 20MHz+10MHz



Highest Channel / 20MHz+15MHz



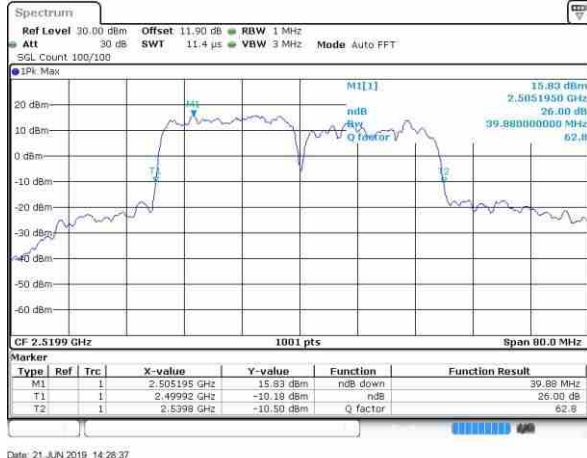


LTE Band 7C

16QAM

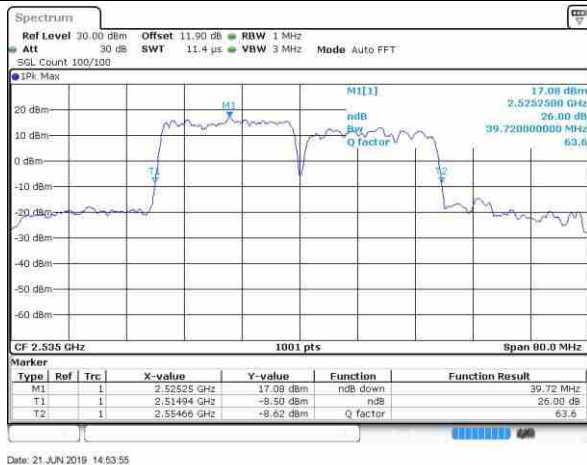
Lowest Channel / 20MHz+20MHz

N/A



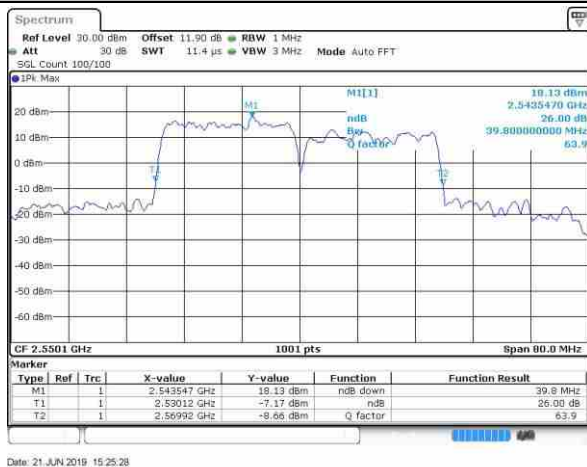
Middle Channel / 20MHz+20MHz

N/A



Highest Channel / 20MHz+20MHz

N/A





LTE Band 7C

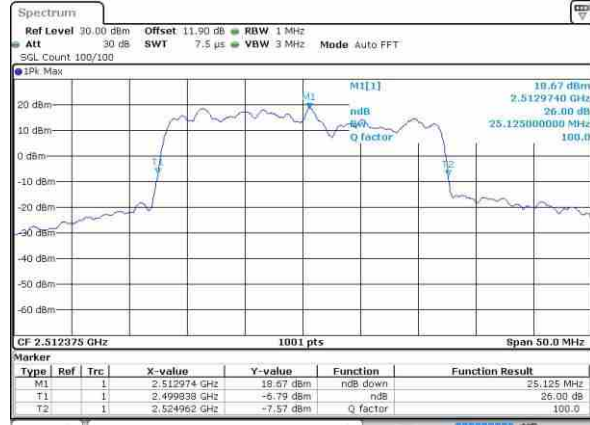
64QAM

Lowest Channel / 10MHz+20MHz



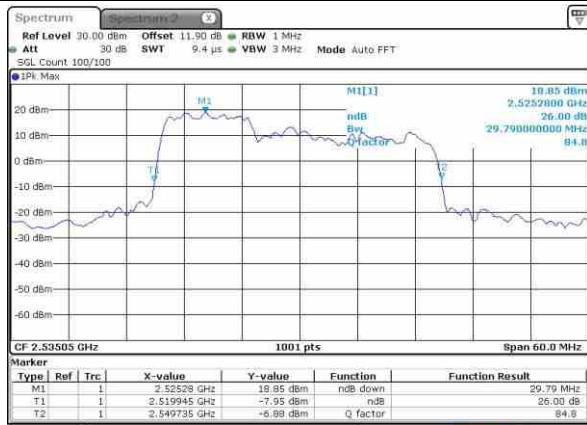
Date: 18 JUN 2019 22:46:36

Lowest Channel / 15MHz+10MHz



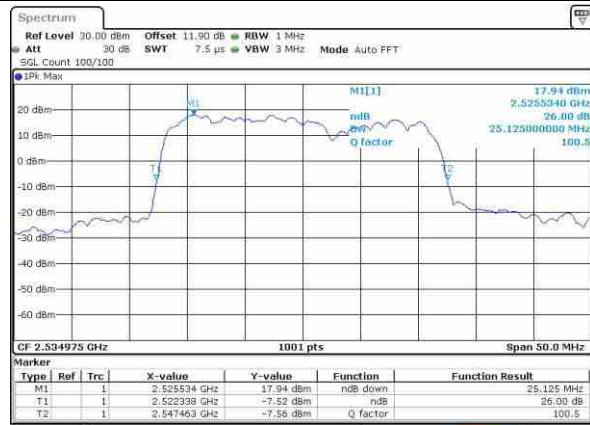
Date: 21 JUN 2019 15:44:50

Middle Channel / 10MHz+20MHz



Date: 18 JUN 2019 23:26:38

Middle Channel / 15MHz+10MHz



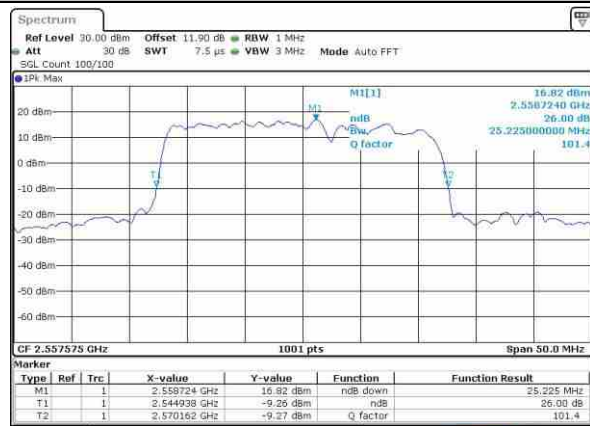
Date: 21 JUN 2019 16:03:12

Highest Channel / 10MHz+20MHz



Date: 18 JUN 2019 23:46:22

Highest Channel / 15MHz+10MHz



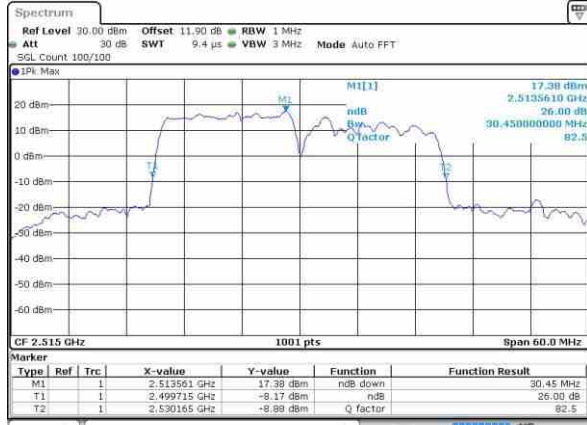
Date: 21 JUN 2019 16:23:07



LTE Band 7C

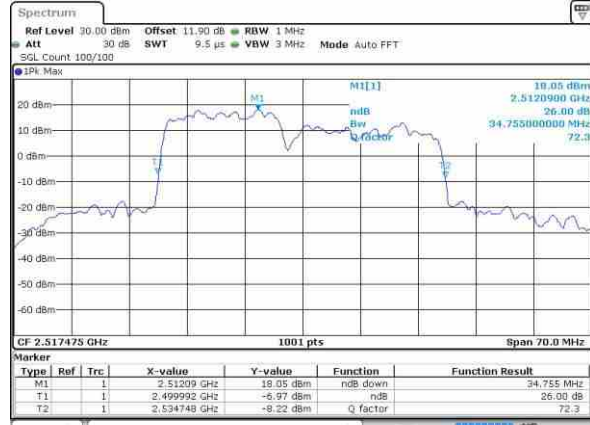
64QAM

Lowest Channel / 15MHz+15MHz



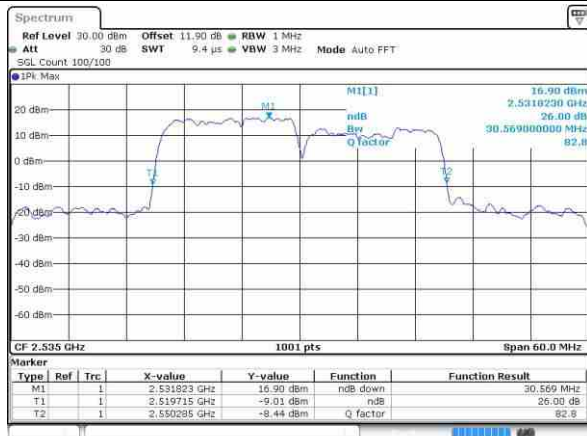
Date: 19 JUN 2019 16:12:00

Lowest Channel / 15MHz+20MHz



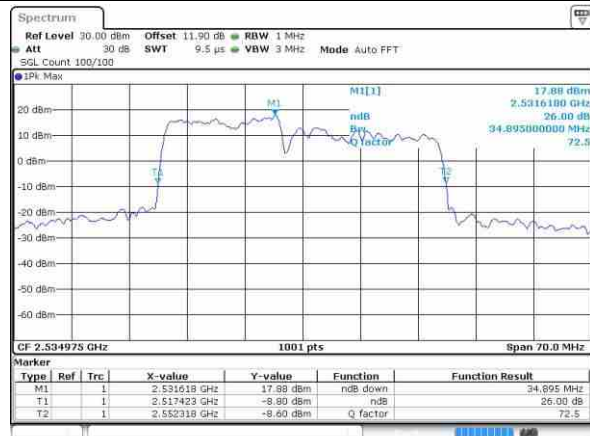
Date: 19 JUN 2019 17:15:40

Middle Channel / 15MHz+15MHz



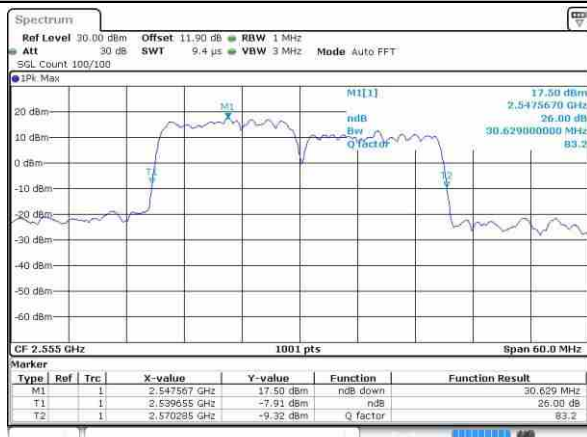
Date: 19 JUN 2019 16:31:11

Middle Channel / 15MHz+20MHz



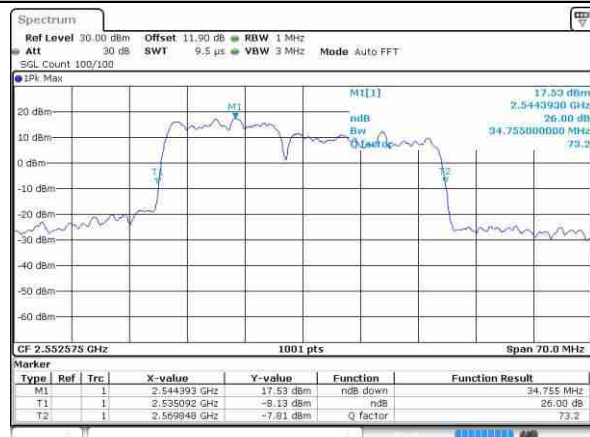
Date: 19 JUN 2019 20:25:43

Highest Channel / 15MHz+15MHz



Date: 19 JUN 2019 16:47:58

Highest Channel / 15MHz+20MHz



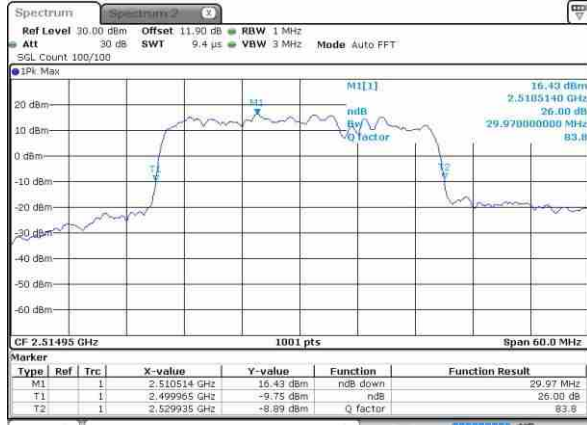
Date: 20 JUN 2019 16:27:00



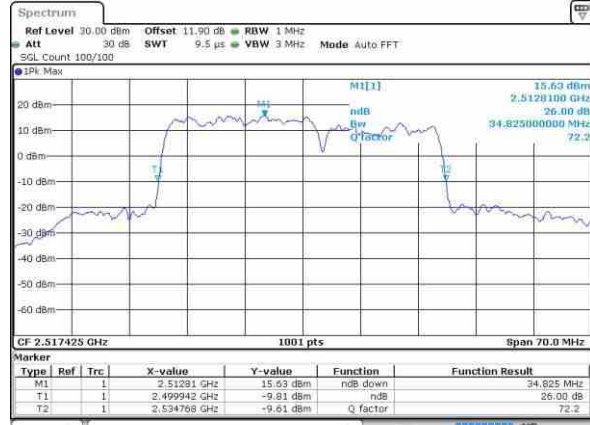
LTE Band 7C

64QAM

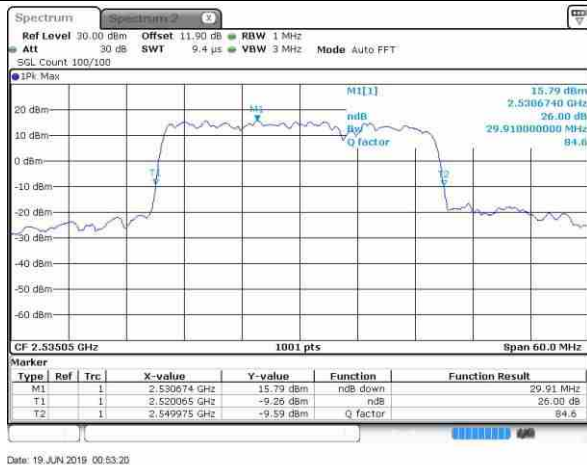
Lowest Channel / 20MHz+10MHz



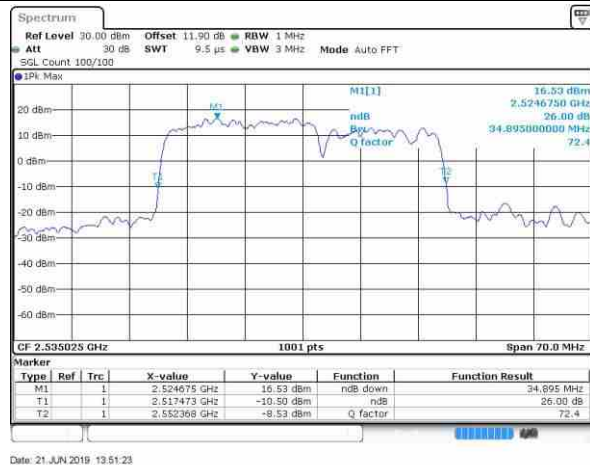
Lowest Channel / 20MHz+15MHz



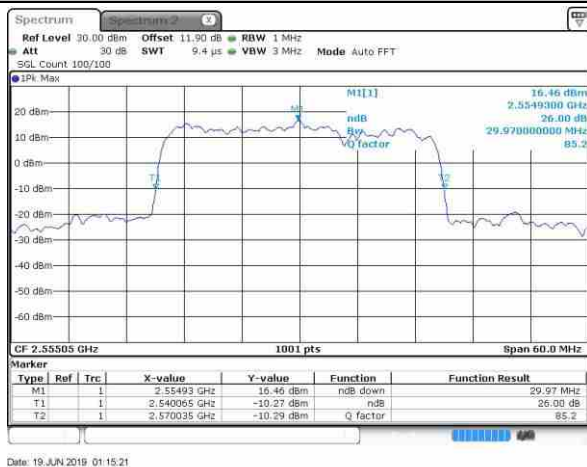
Middle Channel / 20MHz+10MHz



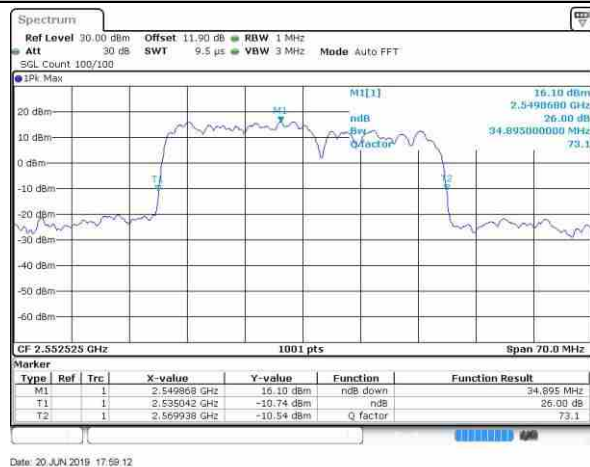
Middle Channel / 20MHz+15MHz



Highest Channel / 20MHz+10MHz



Highest Channel / 20MHz+15MHz



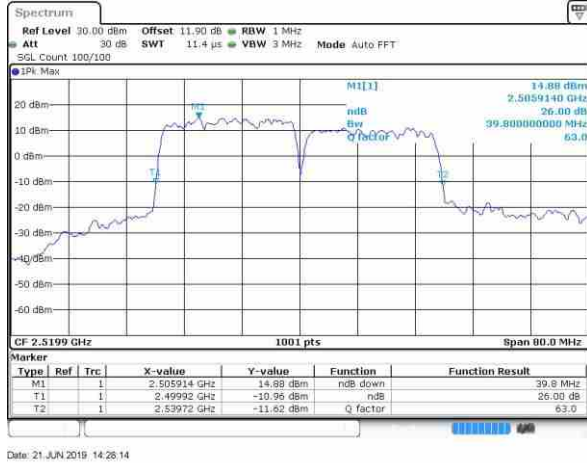


LTE Band 7C

64QAM

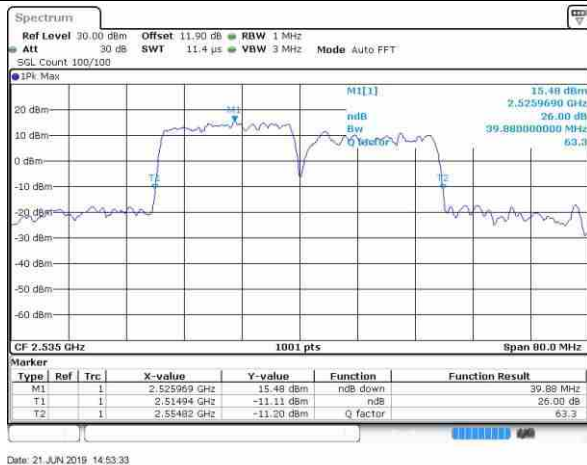
Lowest Channel / 20MHz+20MHz

N/A



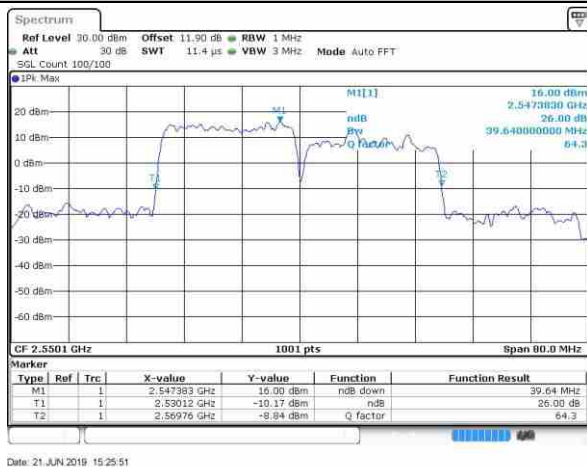
Middle Channel / 20MHz+20MHz

N/A



Highest Channel / 20MHz+20MHz

N/A



Occupied Bandwidth

Mode	LTE Band 7C : 99%OBW(MHz)			
QPSK				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Lowest CH	28.05	23.37	28.35	32.79
Middle CH	27.69	23.32	28.35	33.07
Highest CH	27.57	23.32	28.35	32.93
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Lowest CH	27.87	32.86	37.32	-
Middle CH	27.93	0.00	37.64	-
Highest CH	28.11	32.79	37.32	-

Mode	LTE Band 7C : 99%OBW(MHz)			
16QAM				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Lowest CH	27.93	23.47	28.83	32.51
Middle CH	27.57	23.32	28.11	32.72
Highest CH	28.05	23.47	28.35	32.79
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Lowest CH	28.05	32.51	37.40	-
Middle CH	28.17	32.65	37.08	-
Highest CH	27.75	32.86	37.32	-

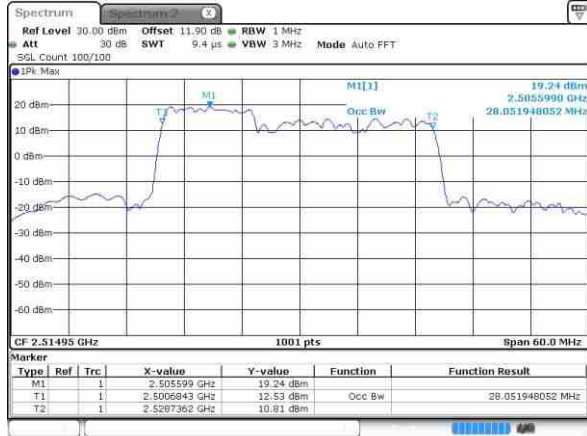
Mode	LTE Band 7C : 99%OBW(MHz)			
64QAM				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Lowest CH	28.11	23.22	28.47	32.58
Middle CH	27.93	23.32	28.53	32.65
Highest CH	27.75	23.22	28.59	32.44
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Lowest CH	27.75	32.65	37.40	-
Middle CH	27.87	32.65	37.48	-
Highest CH	28.05	32.58	37.80	-



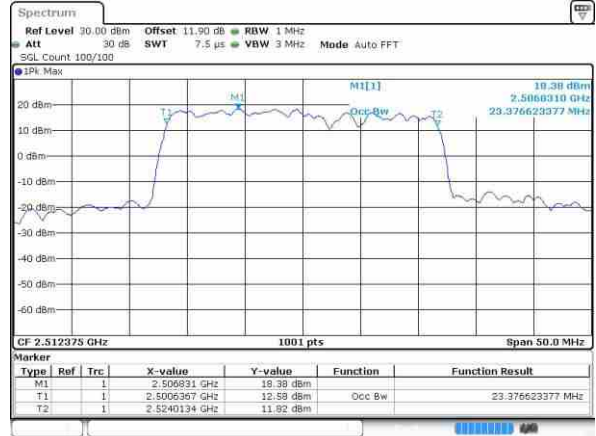
LTE Band 7C

QPSK

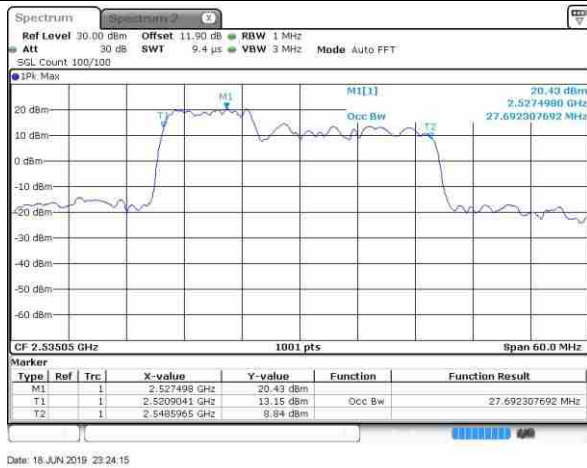
Lowest Channel / 10MHz+20MHz



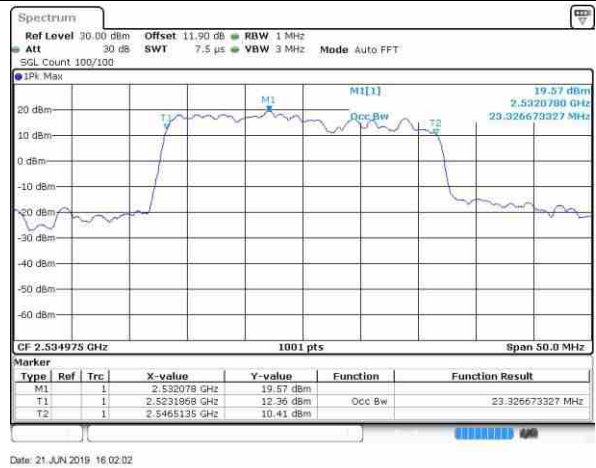
Lowest Channel / 15MHz+10MHz



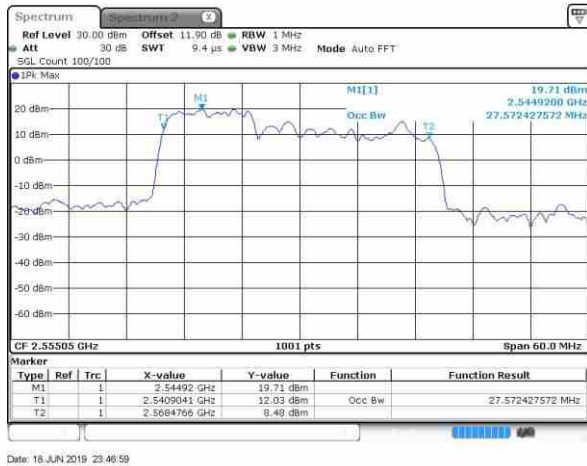
Middle Channel / 10MHz+20MHz



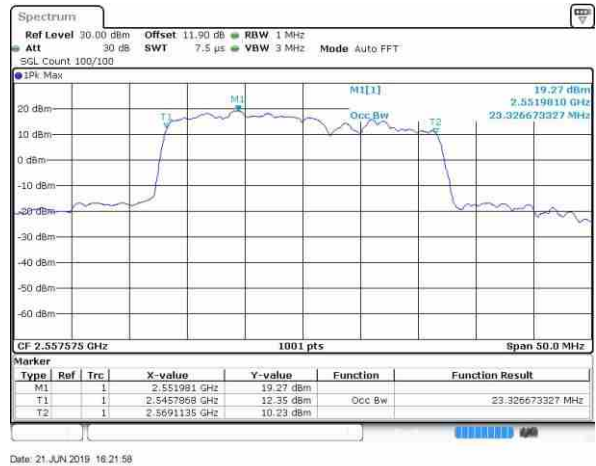
Middle Channel / 15MHz+10MHz



Highest Channel / 10MHz+20MHz



Highest Channel / 15MHz+10MHz

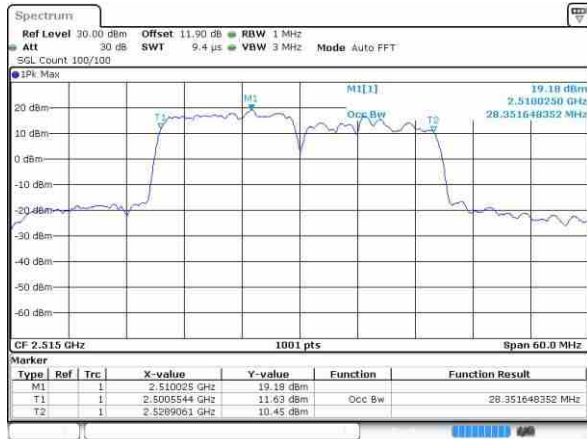




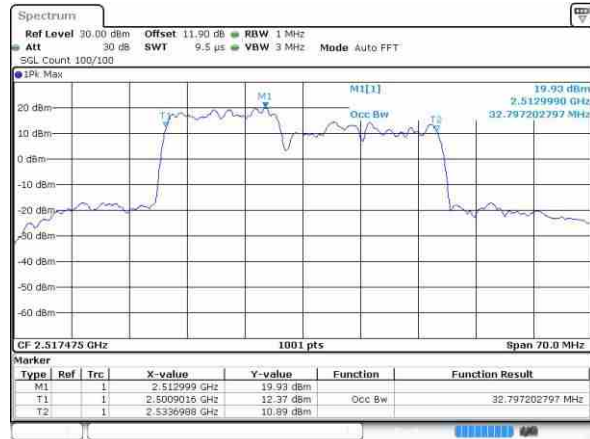
LTE Band 7C

QPSK

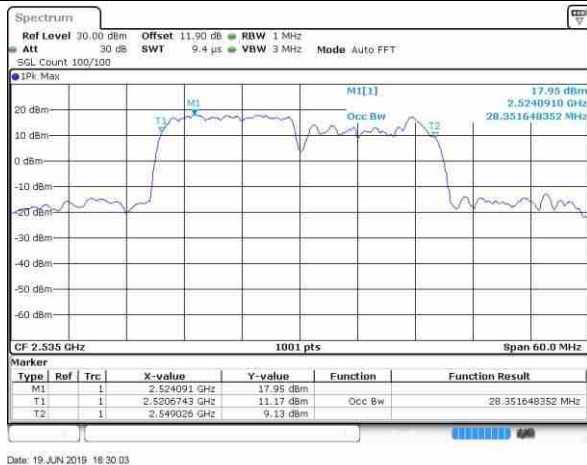
Lowest Channel / 15MHz+15MHz



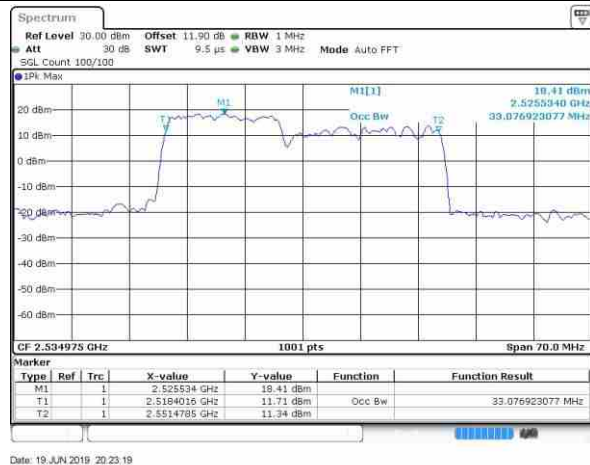
Lowest Channel / 15MHz+20MHz



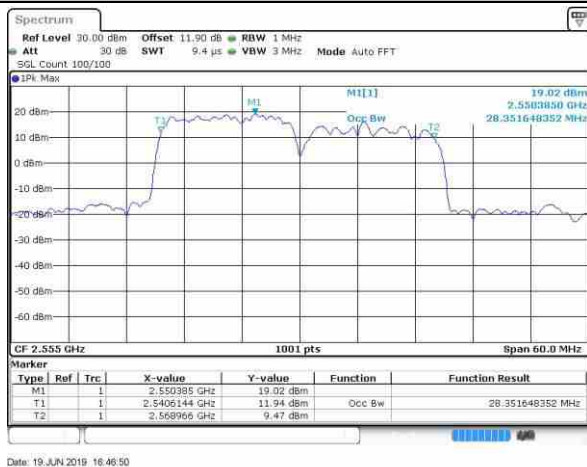
Middle Channel / 15MHz+15MHz



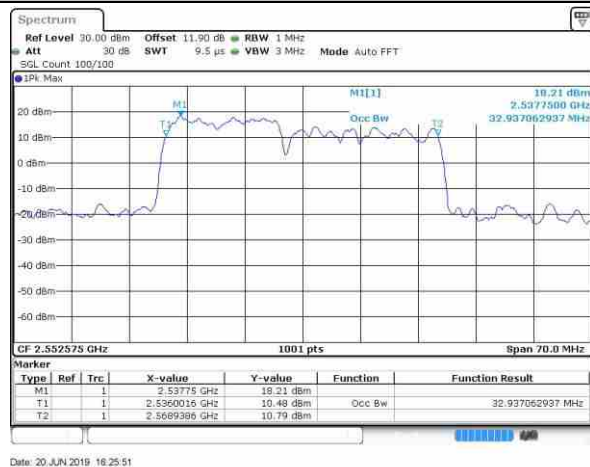
Middle Channel / 15MHz+20MHz



Highest Channel / 15MHz+15MHz



Highest Channel / 15MHz+20MHz

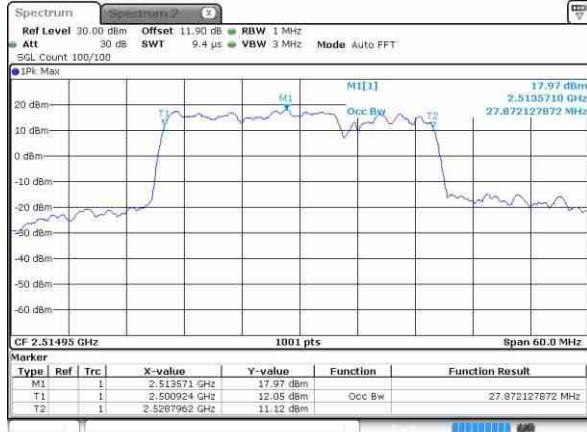




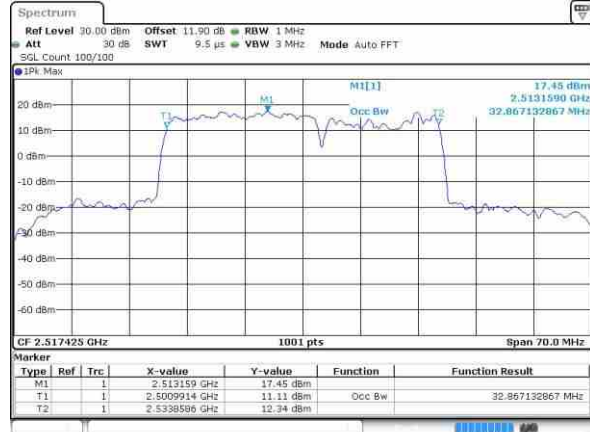
LTE Band 7C

QPSK

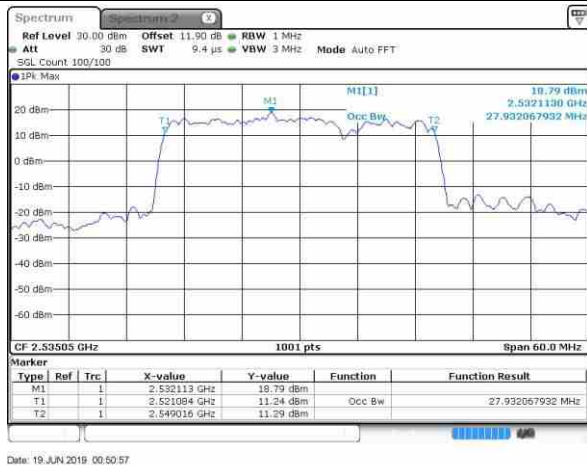
Lowest Channel / 20MHz+10MHz



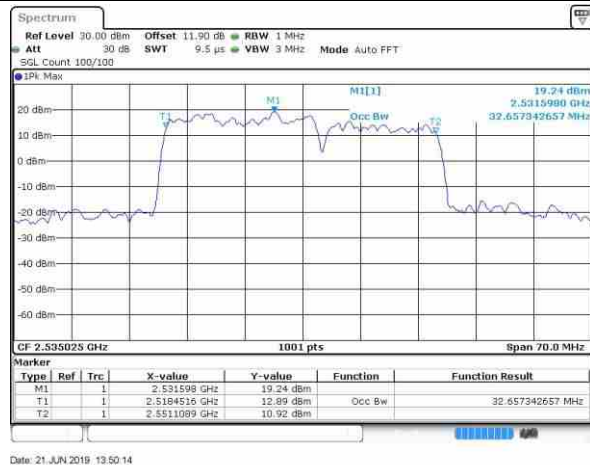
Lowest Channel / 20MHz+15MHz



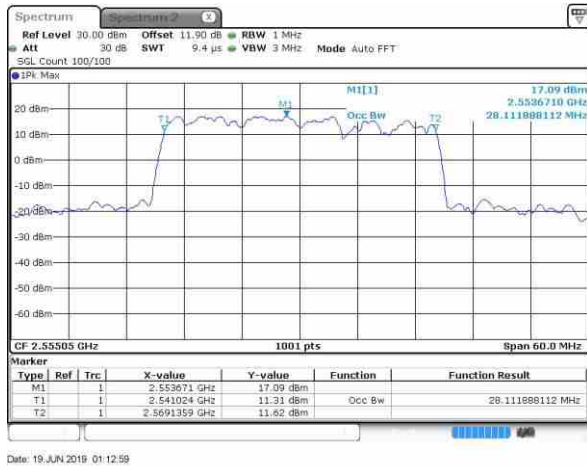
Middle Channel / 20MHz+10MHz



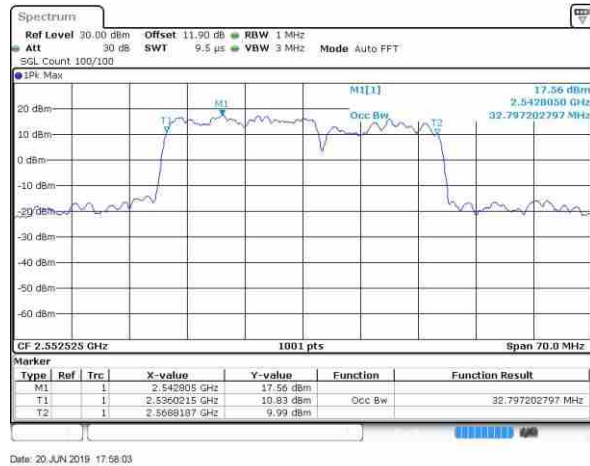
Middle Channel / 20MHz+15MHz



Highest Channel / 20MHz+10MHz



Highest Channel / 20MHz+15MHz



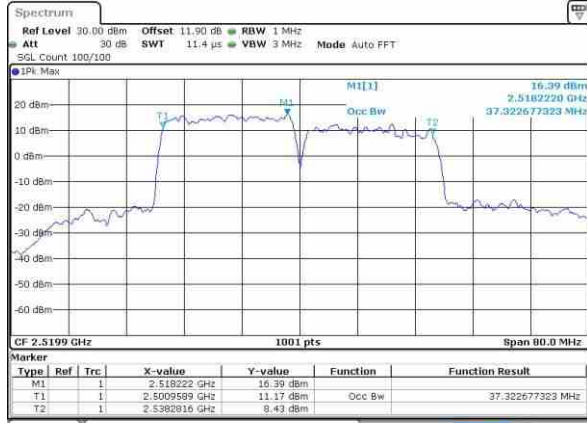


LTE Band 7C

QPSK

Lowest Channel / 20MHz+20MHz

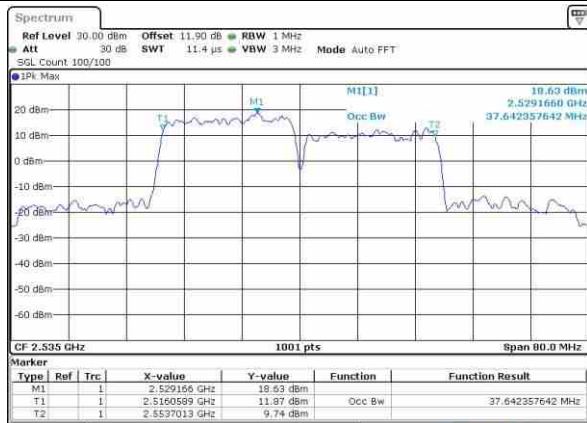
N/A



Date: 21 JUN 2019 14:27:06

Middle Channel / 20MHz+20MHz

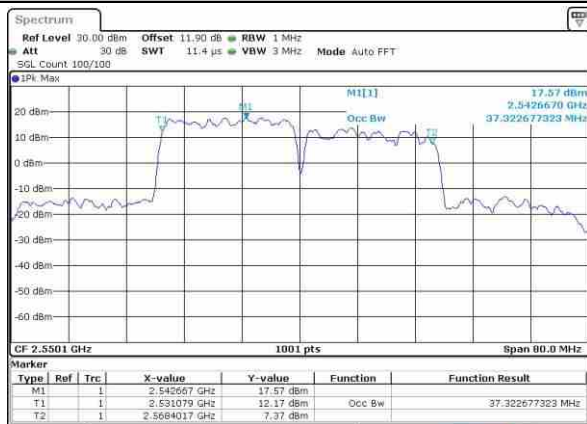
N/A



Date: 21 JUN 2019 14:52:24

Highest Channel / 20MHz+20MHz

N/A



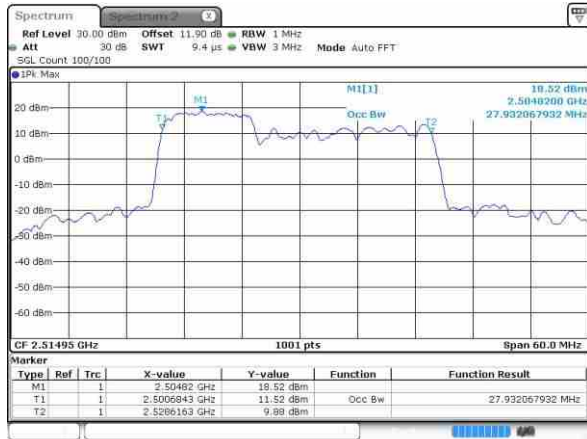
Date: 21 JUN 2019 15:24:43



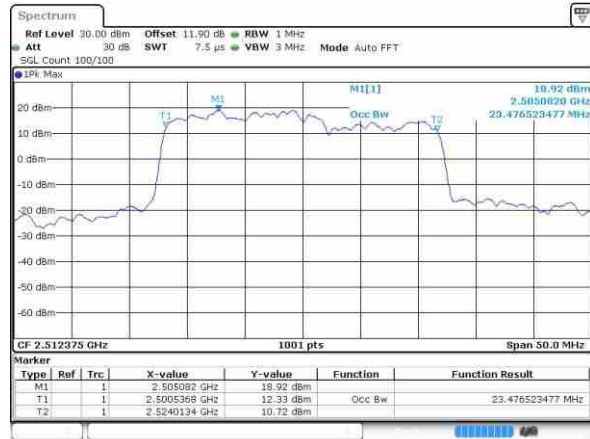
LTE Band 7C

16QAM

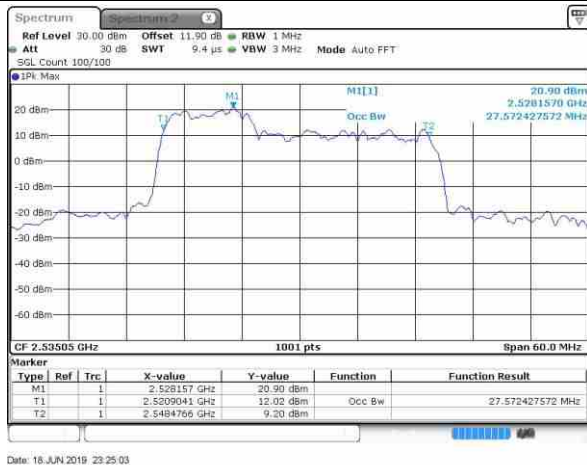
Lowest Channel / 10MHz+20MHz



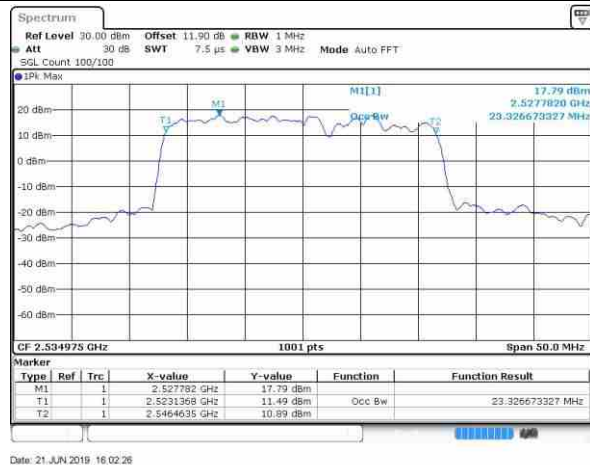
Lowest Channel / 15MHz+10MHz



Middle Channel / 10MHz+20MHz



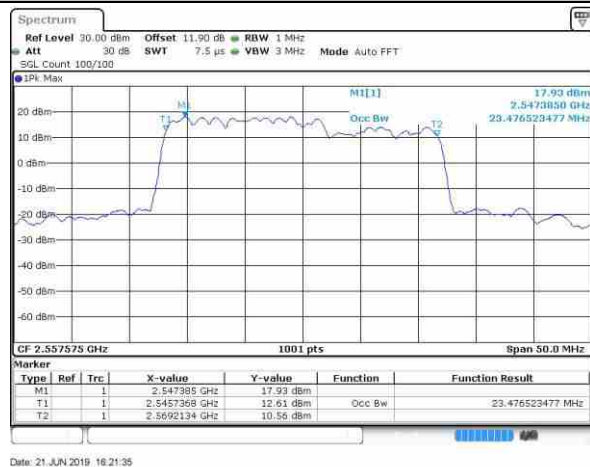
Middle Channel / 15MHz+10MHz



Highest Channel / 10MHz+20MHz



Highest Channel / 15MHz+10MHz

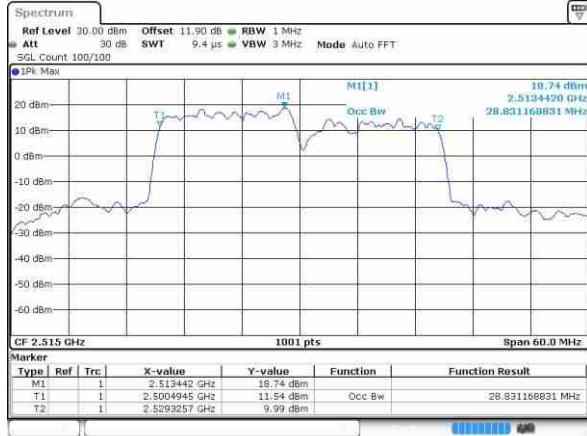




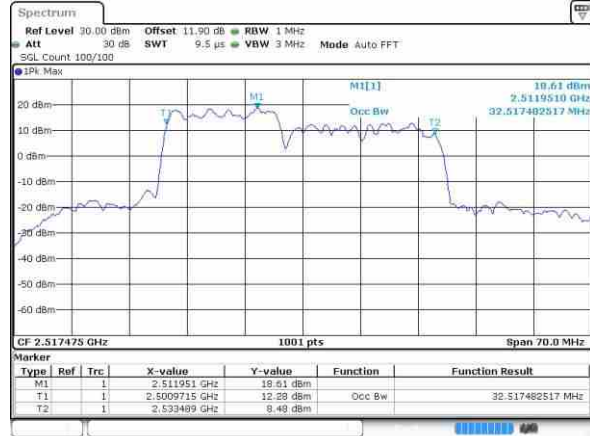
LTE Band 7C

16QAM

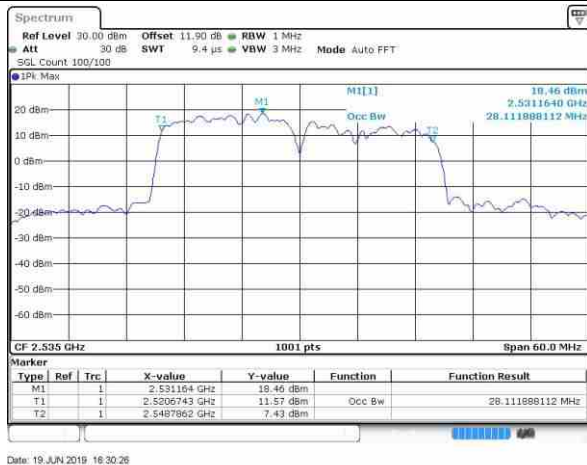
Lowest Channel / 15MHz+15MHz



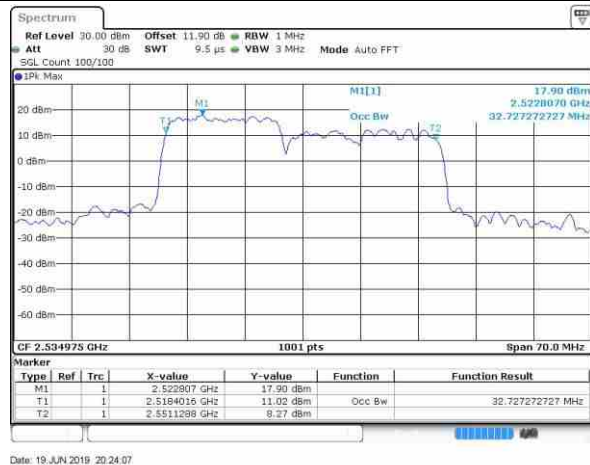
Lowest Channel / 15MHz+20MHz



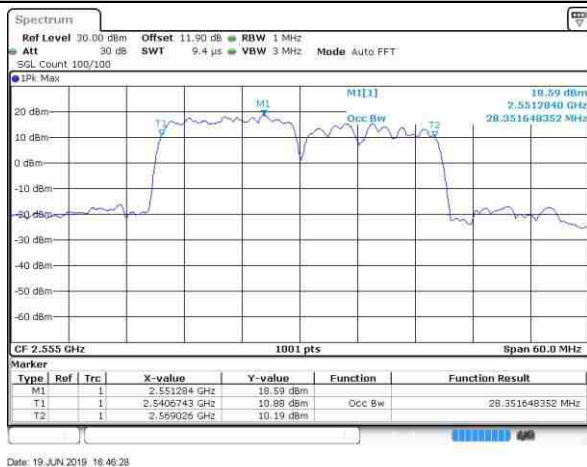
Middle Channel / 15MHz+15MHz



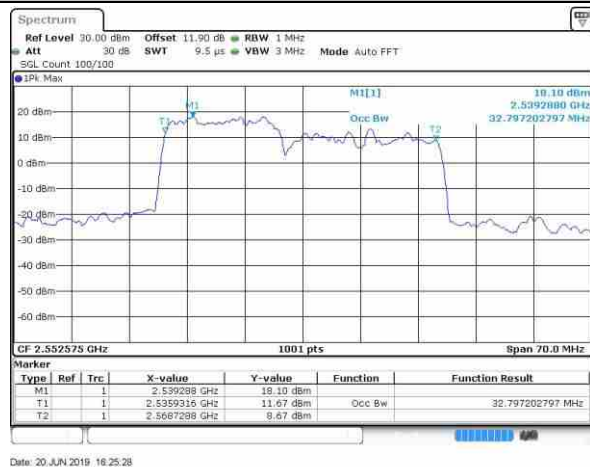
Middle Channel / 15MHz+20MHz



Highest Channel / 15MHz+15MHz



Highest Channel / 15MHz+20MHz

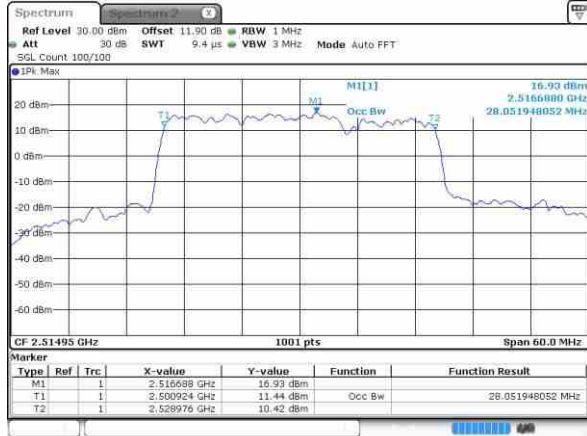




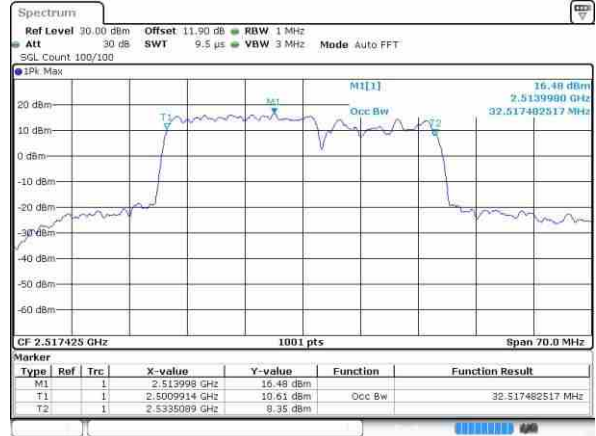
LTE Band 7C

16QAM

Lowest Channel / 20MHz+10MHz



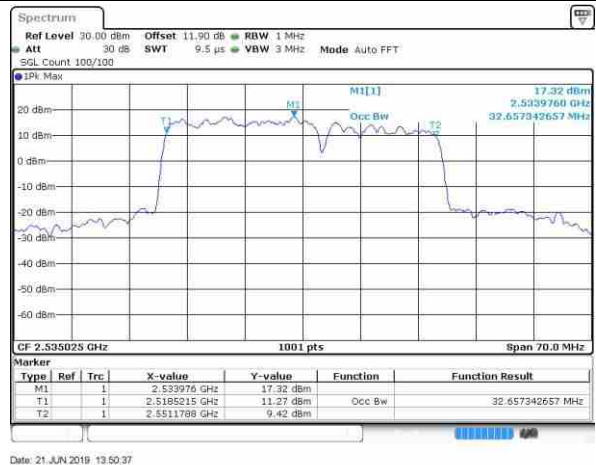
Lowest Channel / 20MHz+15MHz



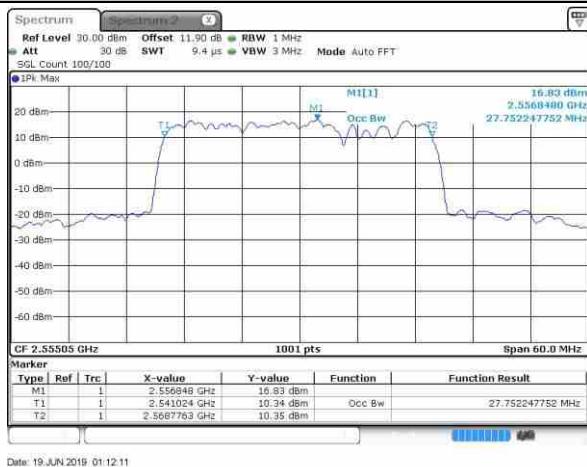
Middle Channel / 20MHz+10MHz



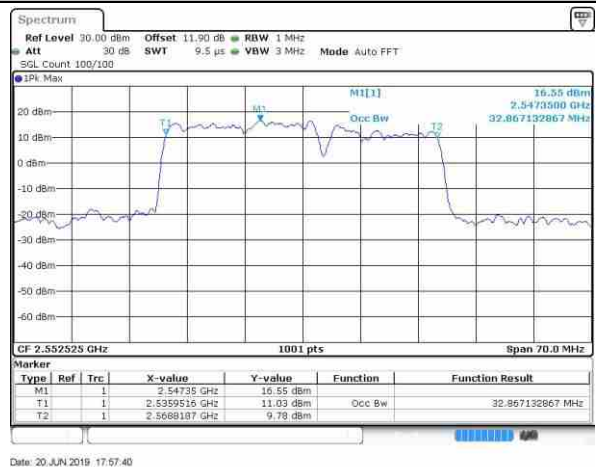
Middle Channel / 20MHz+15MHz

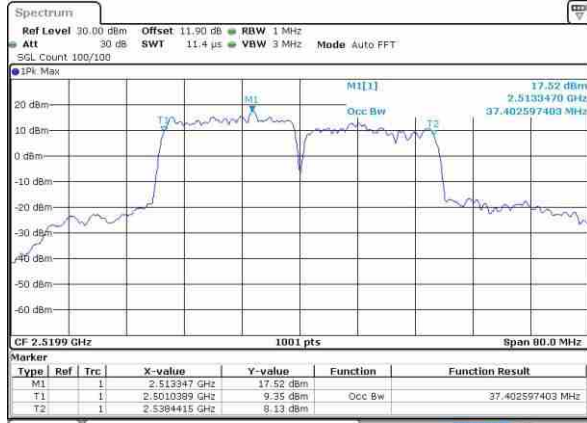


Highest Channel / 20MHz+10MHz

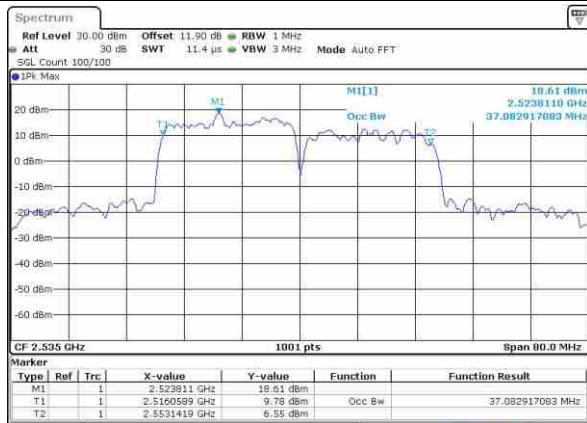


Highest Channel / 20MHz+15MHz

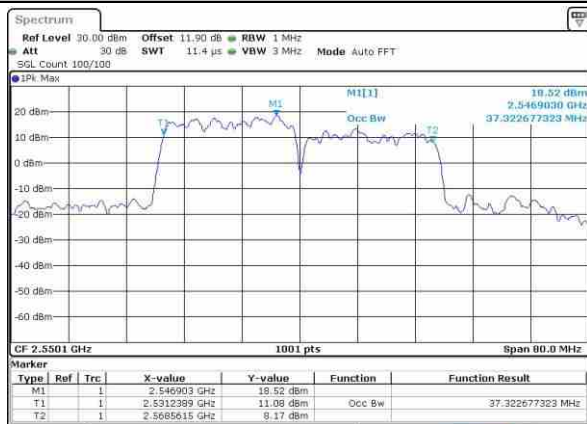


**LTE Band 7C****16QAM****Lowest Channel / 20MHz+20MHz****N/A**

Date: 21 JUN 2019 14:27:29

Middle Channel / 20MHz+20MHz**N/A**

Date: 21 JUN 2019 14:52:47

Highest Channel / 20MHz+20MHz**N/A**

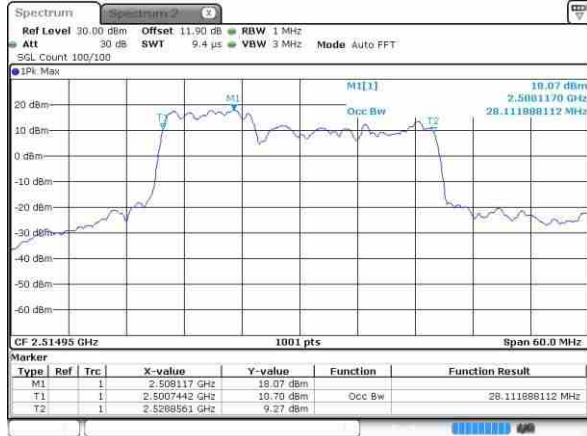
Date: 21 JUN 2019 15:24:19



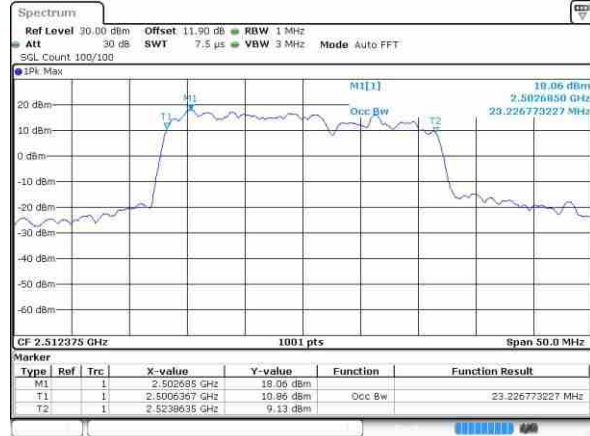
LTE Band 7C

64QAM

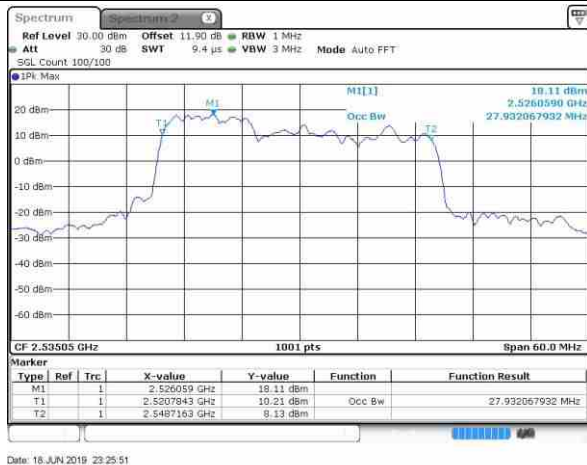
Lowest Channel / 10MHz+20MHz



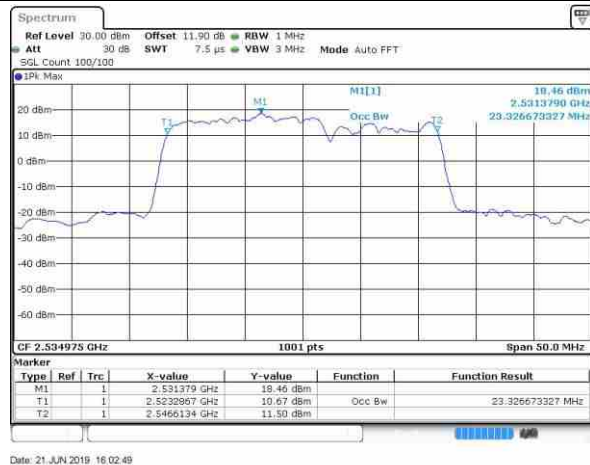
Lowest Channel / 15MHz+10MHz



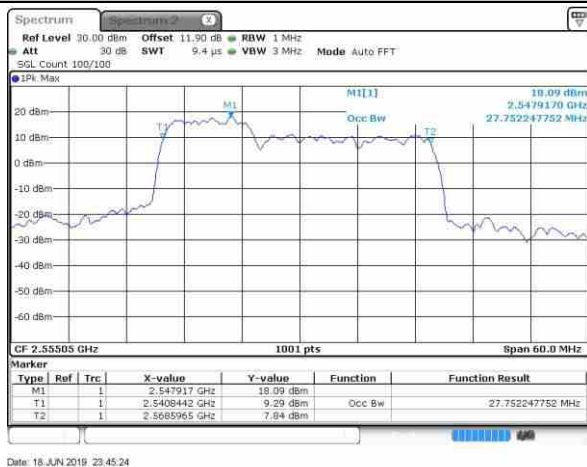
Middle Channel / 10MHz+20MHz



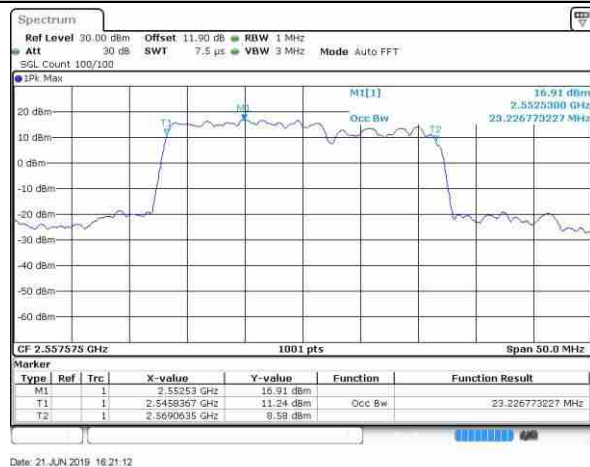
Middle Channel / 15MHz+10MHz



Highest Channel / 10MHz+20MHz



Highest Channel / 15MHz+10MHz

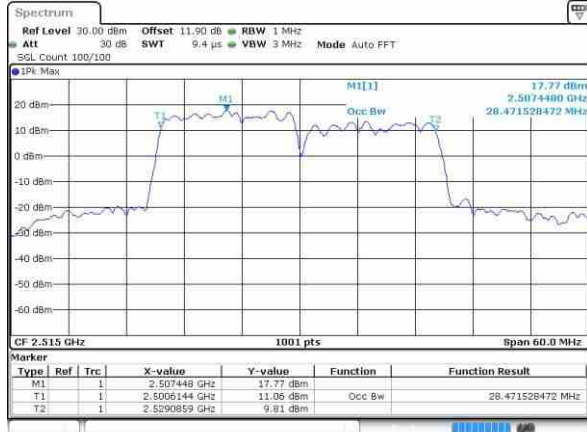




LTE Band 7C

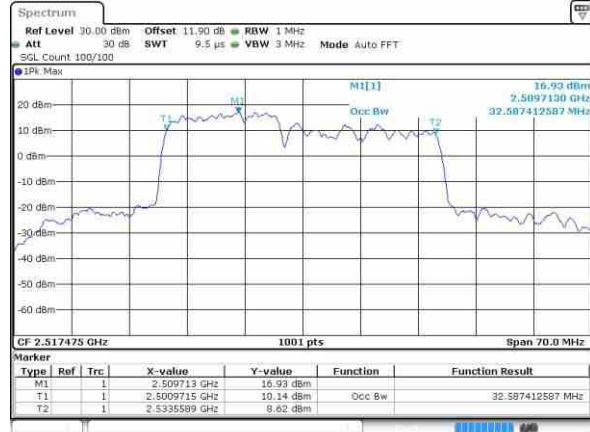
64QAM

Lowest Channel / 15MHz+15MHz



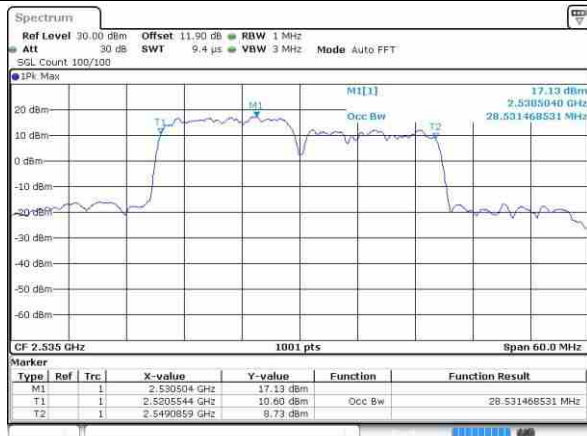
Date: 19 JUN 2019 16:11:38

Lowest Channel / 15MHz+20MHz



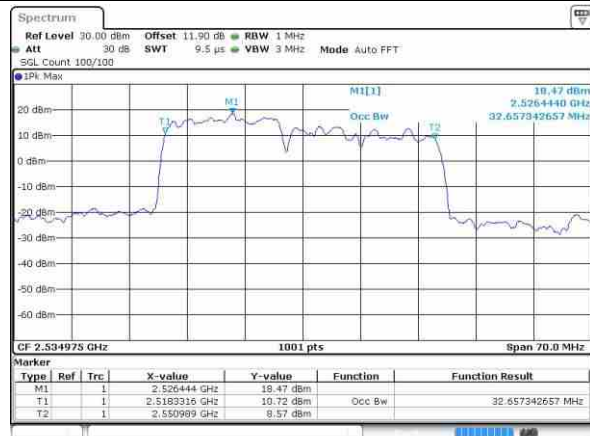
Date: 19 JUN 2019 17:15:18

Middle Channel / 15MHz+15MHz



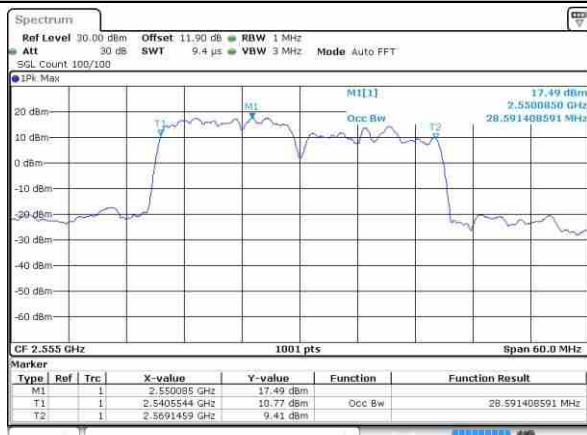
Date: 19 JUN 2019 16:30:49

Middle Channel / 15MHz+20MHz



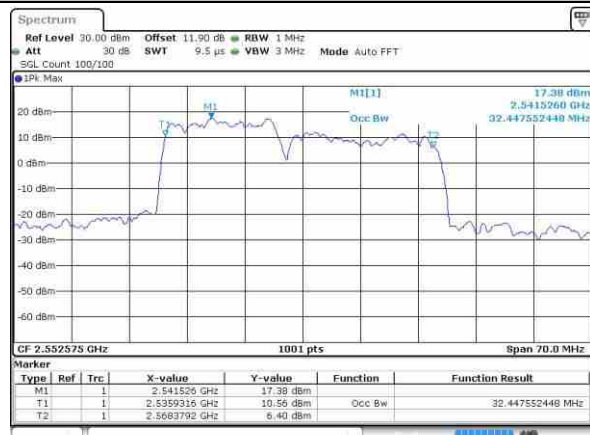
Date: 19 JUN 2019 20:24:58

Highest Channel / 15MHz+15MHz



Date: 19 JUN 2019 16:46:05

Highest Channel / 15MHz+20MHz



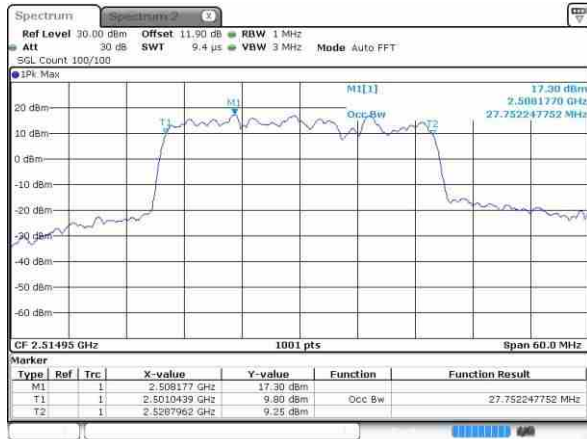
Date: 20 JUN 2019 16:25:05



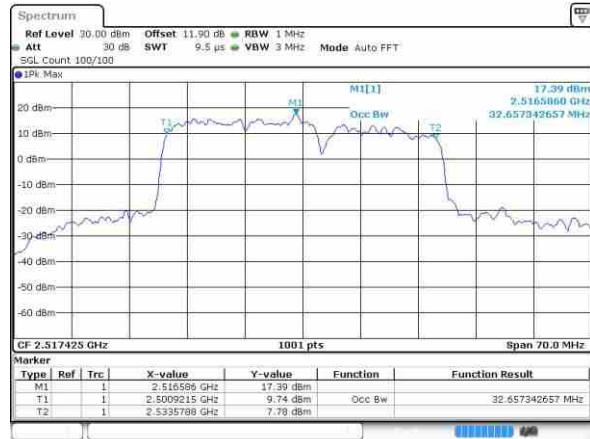
LTE Band 7C

64QAM

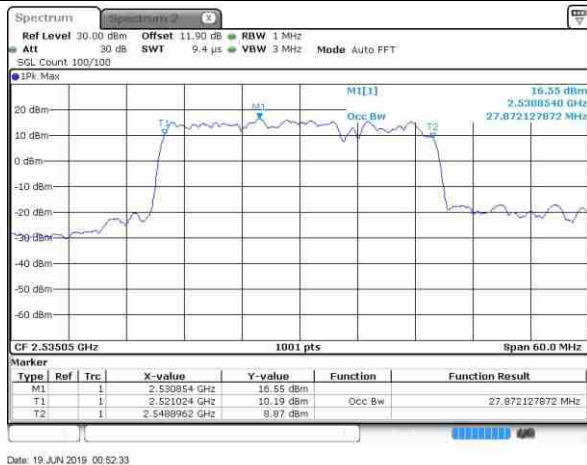
Lowest Channel / 20MHz+10MHz



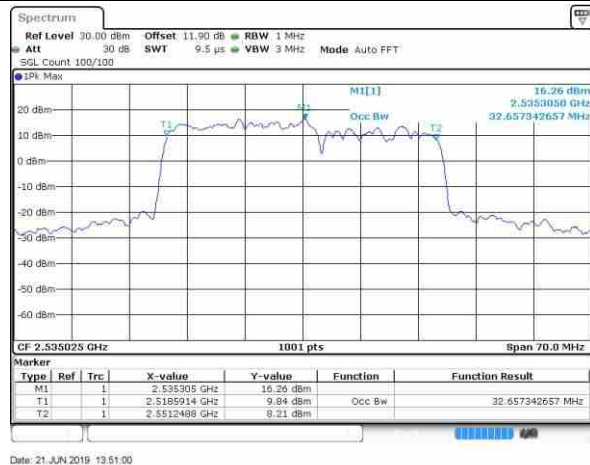
Lowest Channel / 20MHz+15MHz



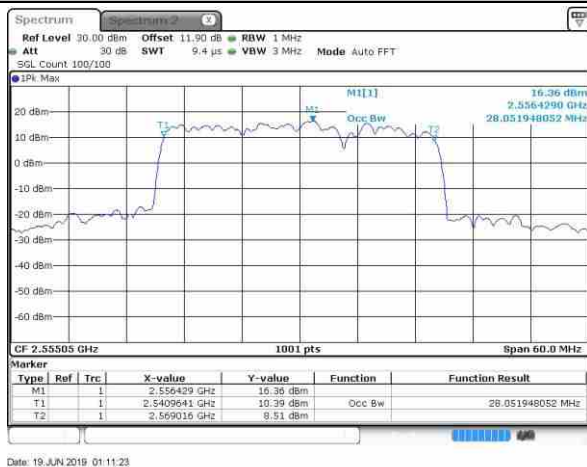
Middle Channel / 20MHz+10MHz



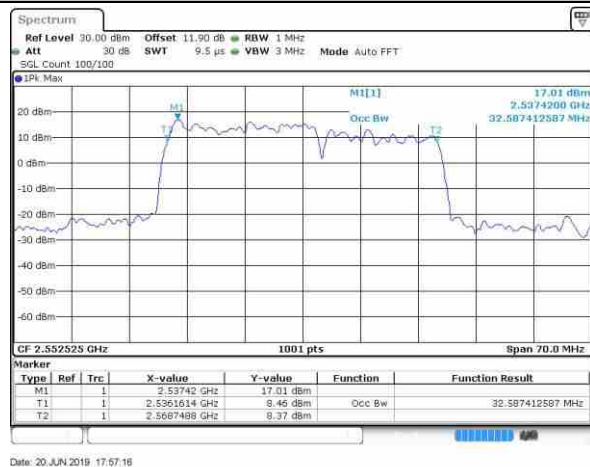
Middle Channel / 20MHz+15MHz



Highest Channel / 20MHz+10MHz



Highest Channel / 20MHz+15MHz



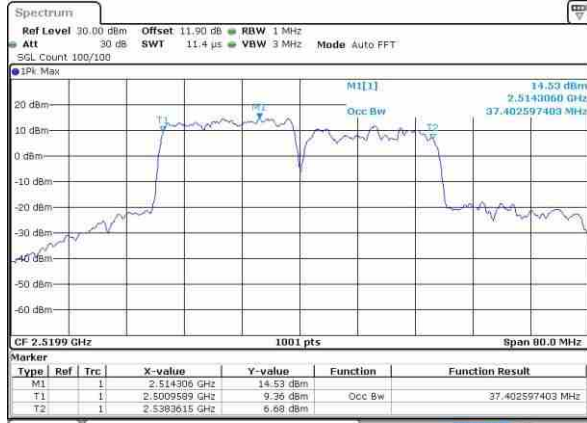


LTE Band 7C

64QAM

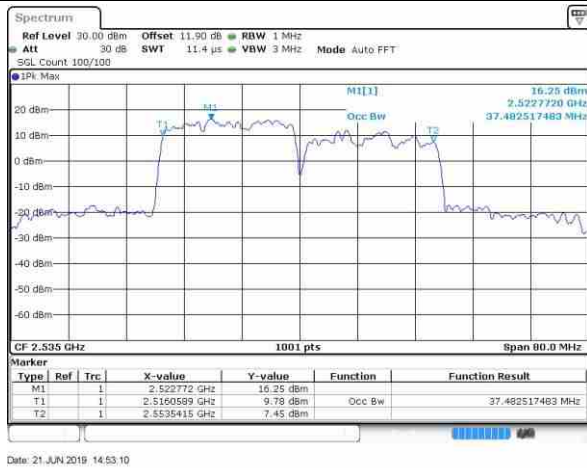
Lowest Channel / 20MHz+20MHz

N/A



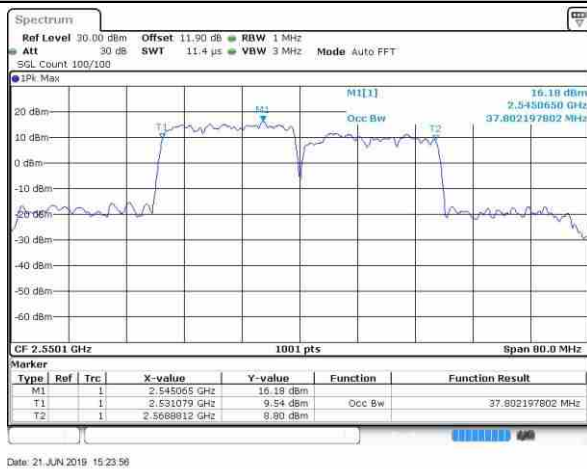
Middle Channel / 20MHz+20MHz

N/A



Highest Channel / 20MHz+20MHz

N/A





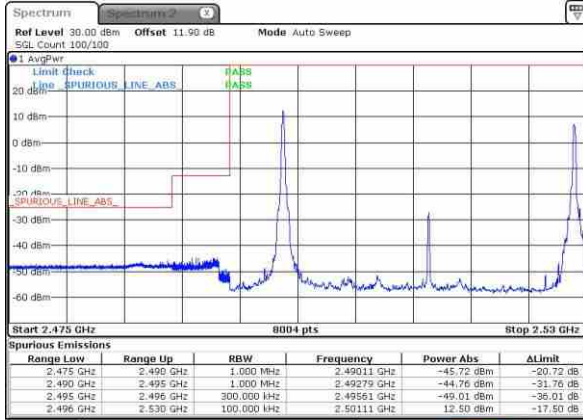
Conducted Band Edge



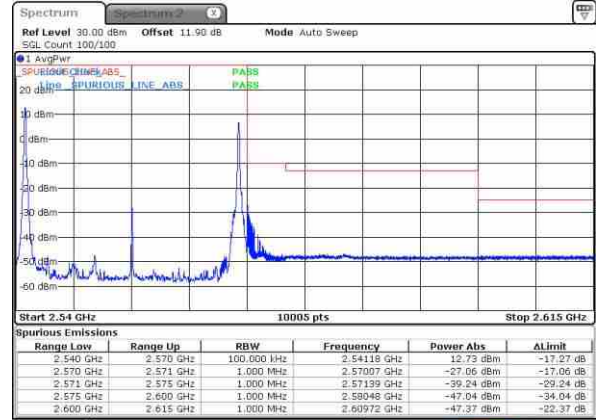
LTE Band 7C / 10MHz+20MHz

QPSK

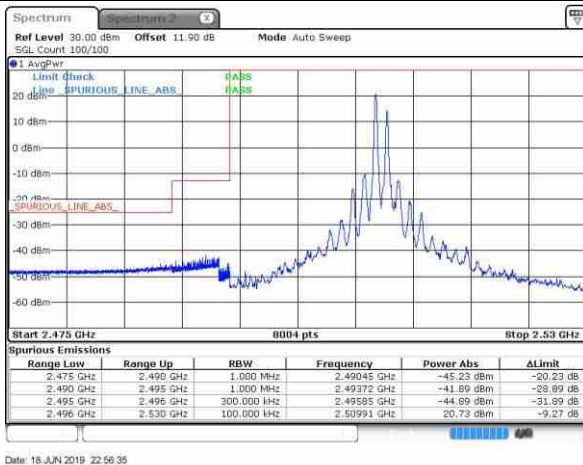
Lowest Band Edge / 1RB0 and 1RB99



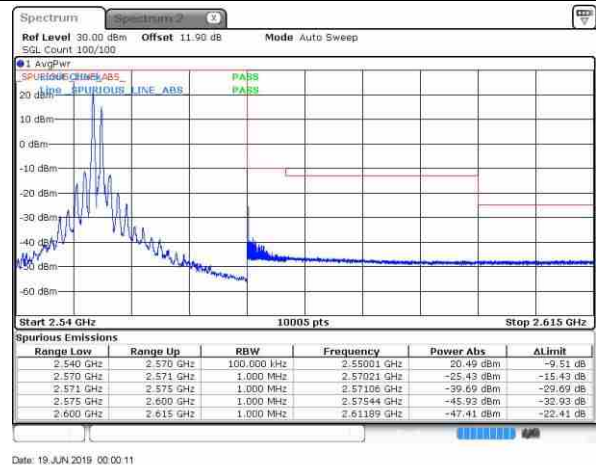
Highest Band Edge / 1RB0 and 1RB99



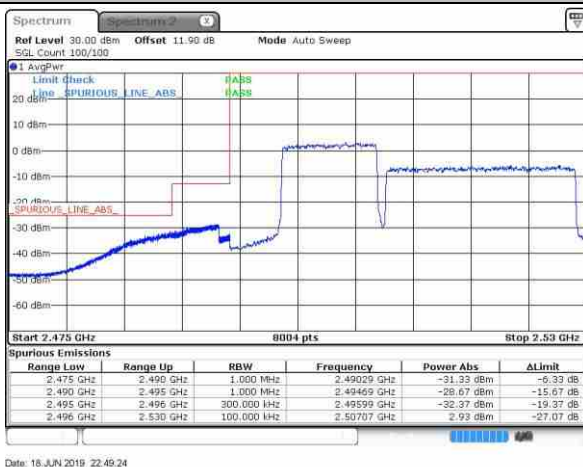
Lowest Band Edge / 1RB49 and 1RB0



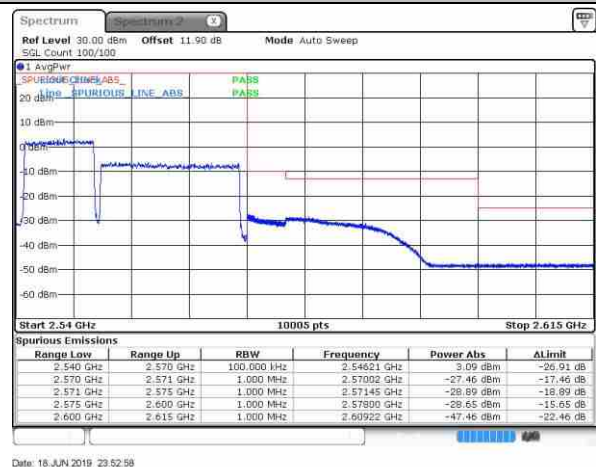
Highest Band Edge / 1RB49 and 1RB0

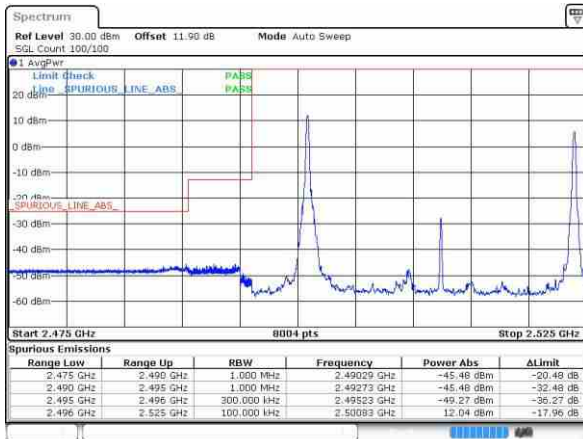


Lowest Band Edge / Full RB

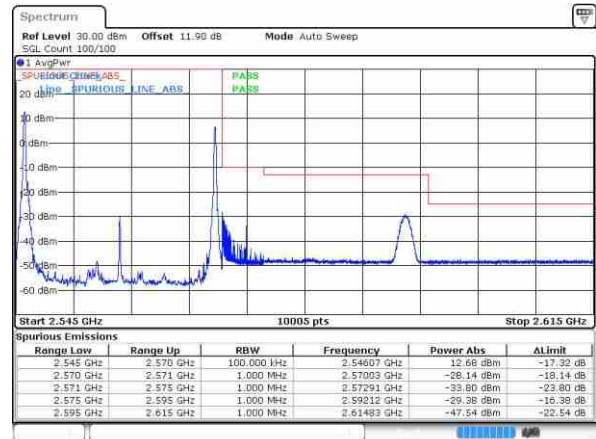


Highest Band Edge / Full RB



LTE Band 7C / 15MHz+10MHz
QPSK
Lowest Band Edge / 1RB0 and 1RB49


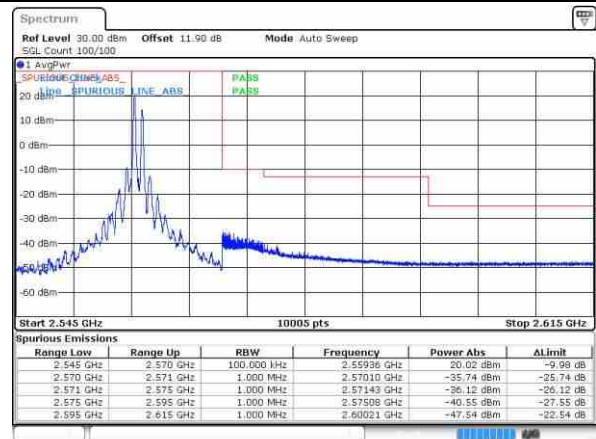
Date: 21 JUN 2019 15:49:48

Highest Band Edge / 1RB0 and 1RB49


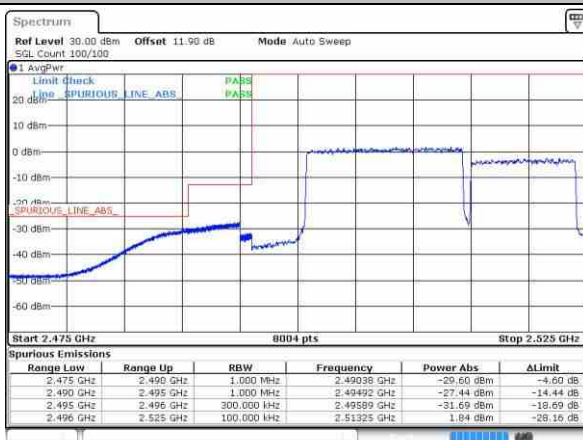
Date: 21 JUN 2019 16:25:59

Lowest Band Edge / 1RB74 and 1RB0

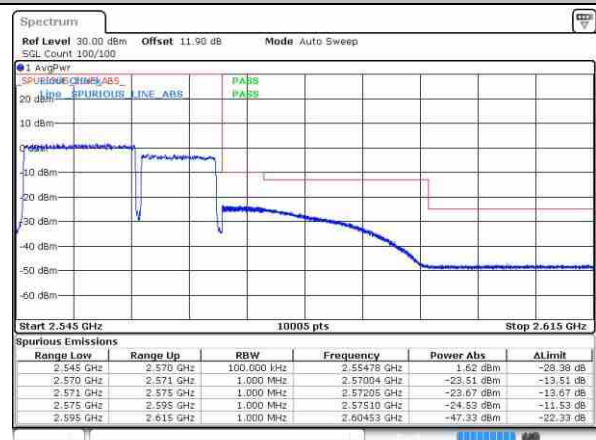

Date: 21 JUN 2019 15:50:29

Highest Band Edge / 1RB74 and 1RB0


Date: 21 JUN 2019 16:29:28

Lowest Band Edge / Full RB


Date: 21 JUN 2019 15:46:17

Highest Band Edge / Full RB


Date: 21 JUN 2019 16:25:13