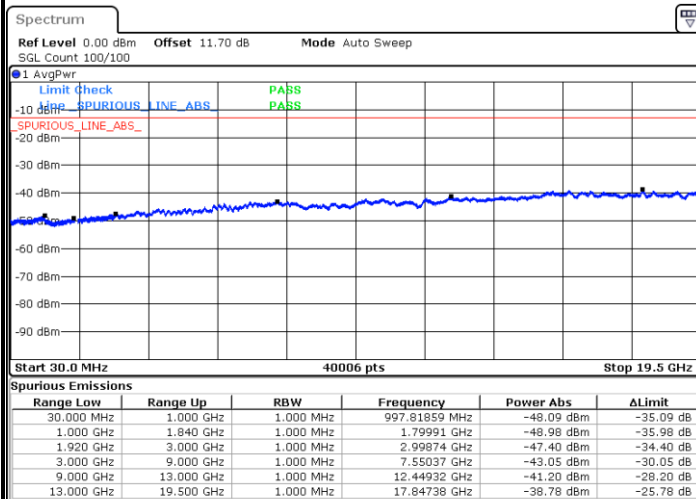
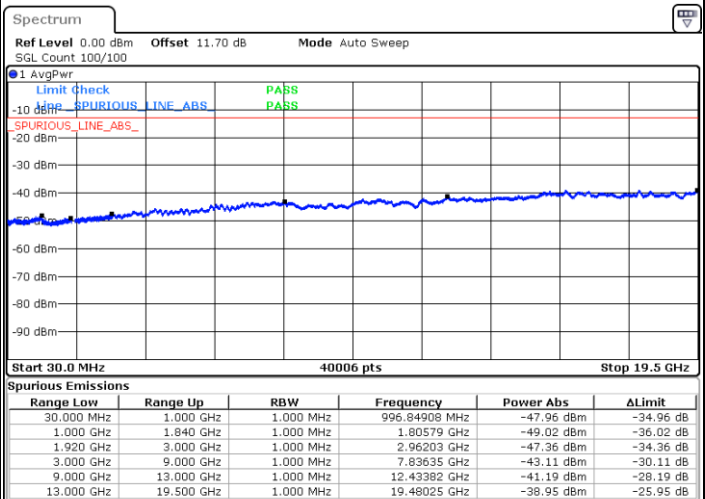
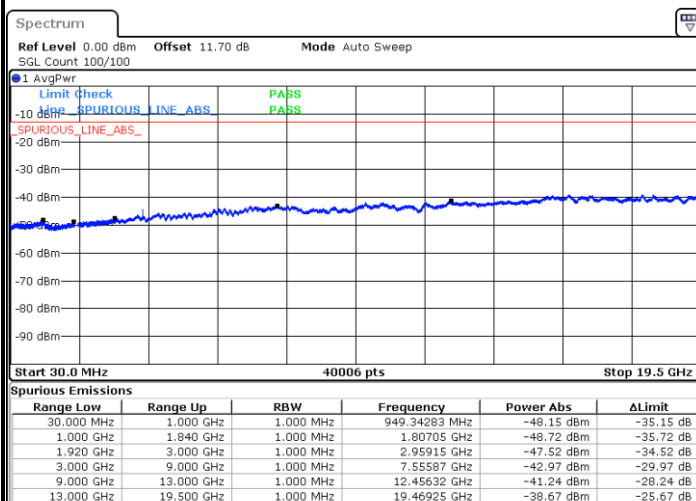


**Conducted Spurious Emission****LTE Band 2 / 1.4MHz****Lowest Channel / QPSK**

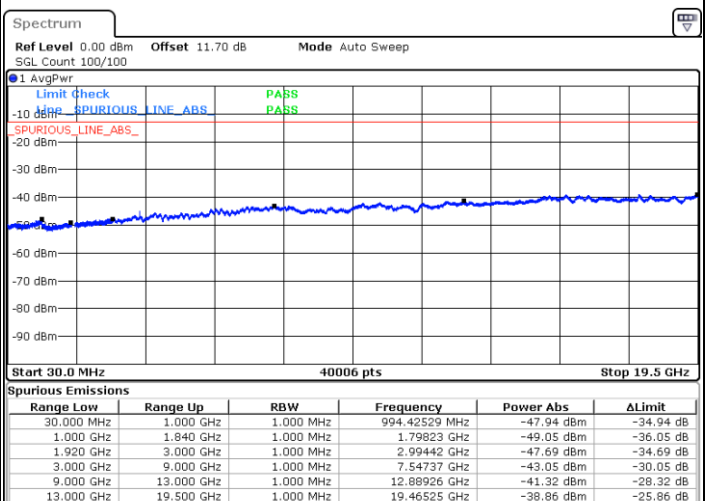
Date: 6 SEP. 2019 09:25:52

Lowest Channel / 16QAM

Date: 6 SEP. 2019 09:26:53

Middle Channel / QPSK

Date: 6 SEP. 2019 09:28:40

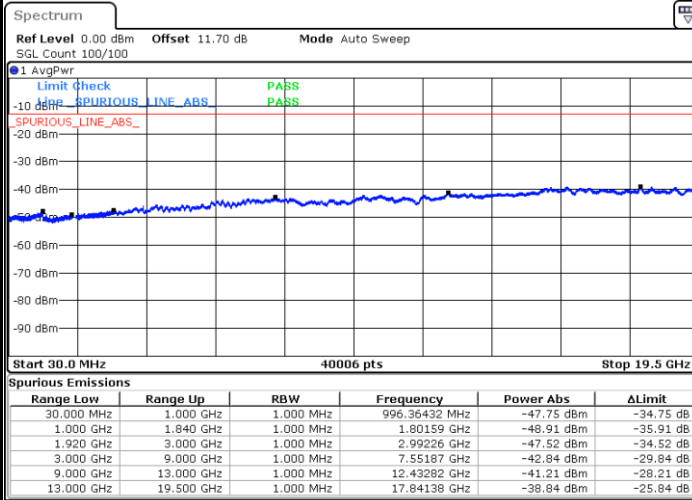
Middle Channel / 16QAM

Date: 6 SEP. 2019 09:29:40



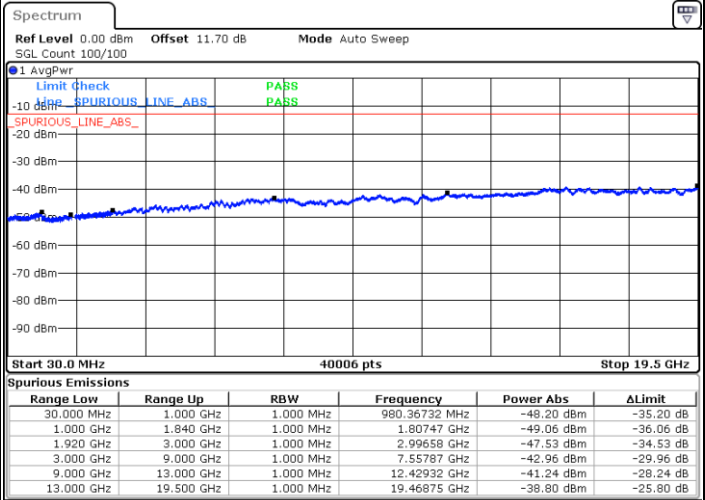
LTE Band 2 / 1.4MHz

Highest Channel / QPSK



Date: 6 SEP. 2019 09:35:47

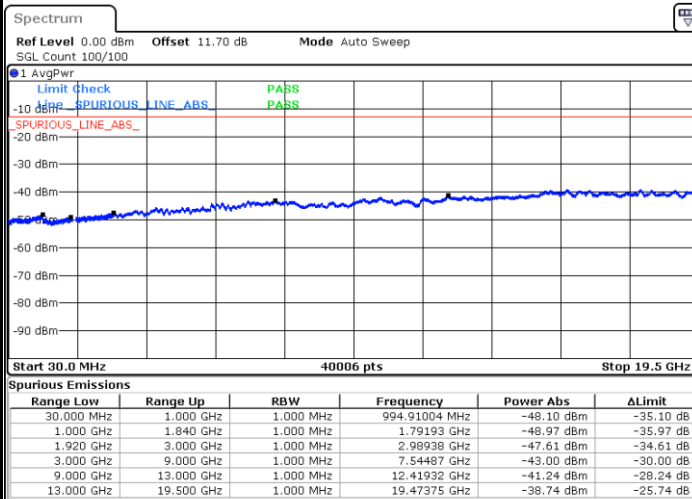
Highest Channel / 16QAM



Date: 6 SEP. 2019 09:36:48

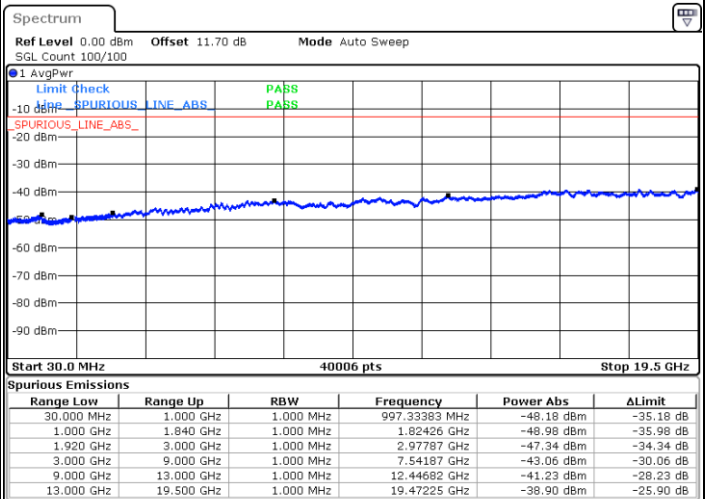
LTE Band 2 / 3MHz

Lowest Channel / QPSK



Date: 6 SEP. 2019 09:42:42

Lowest Channel / 16QAM

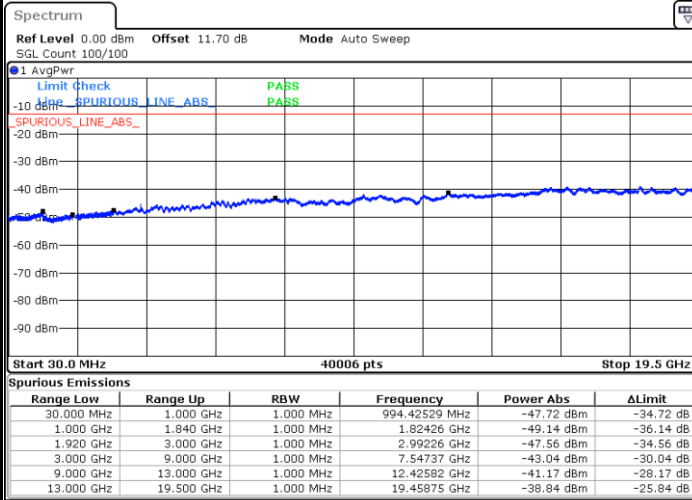


Date: 6 SEP. 2019 09:43:43



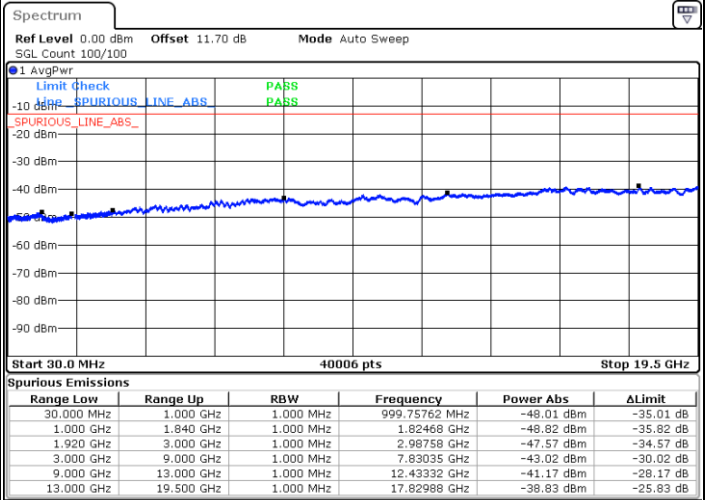
LTE Band 2 / 3MHz

Middle Channel / QPSK



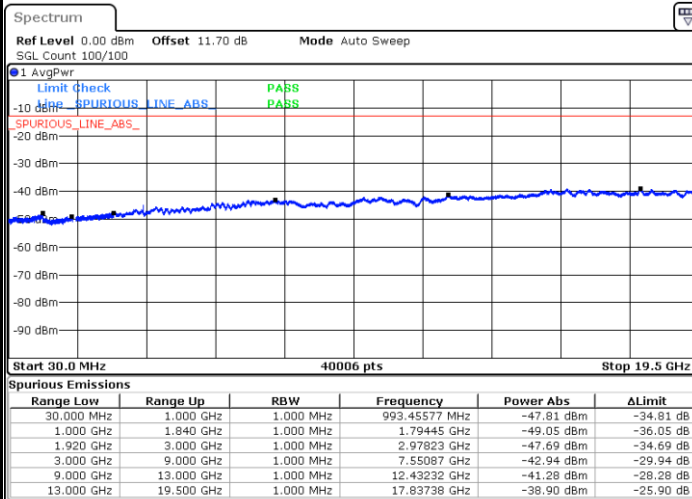
Date: 6 SEP. 2019 09:45:30

Middle Channel / 16QAM



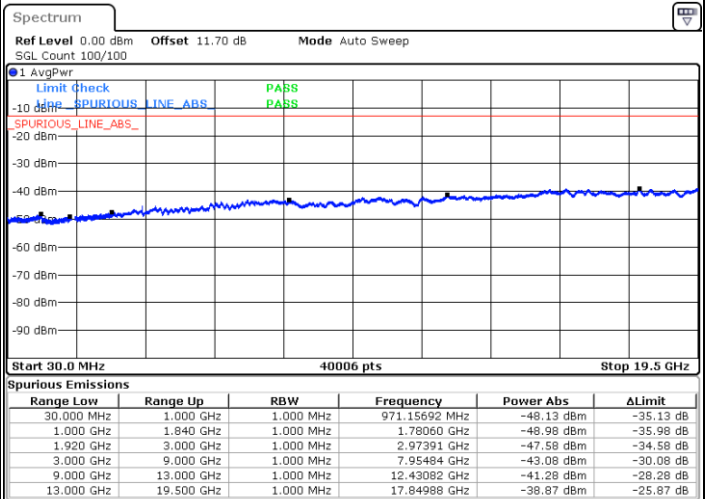
Date: 6 SEP. 2019 09:46:31

Highest Channel / QPSK



Date: 6 SEP. 2019 09:52:25

Highest Channel / 16QAM

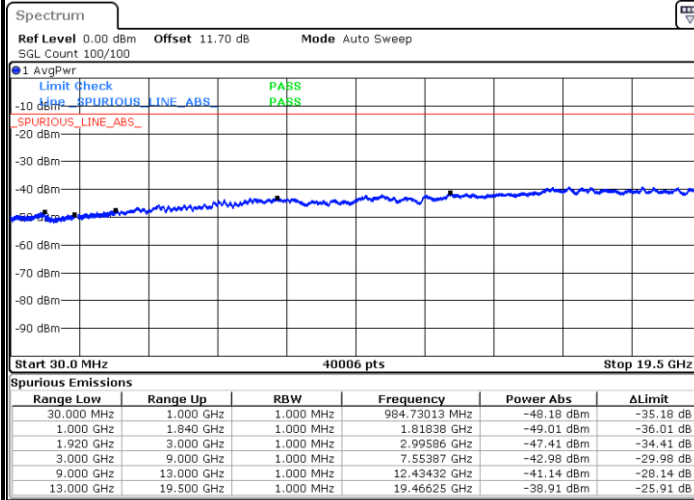


Date: 6 SEP. 2019 09:53:26



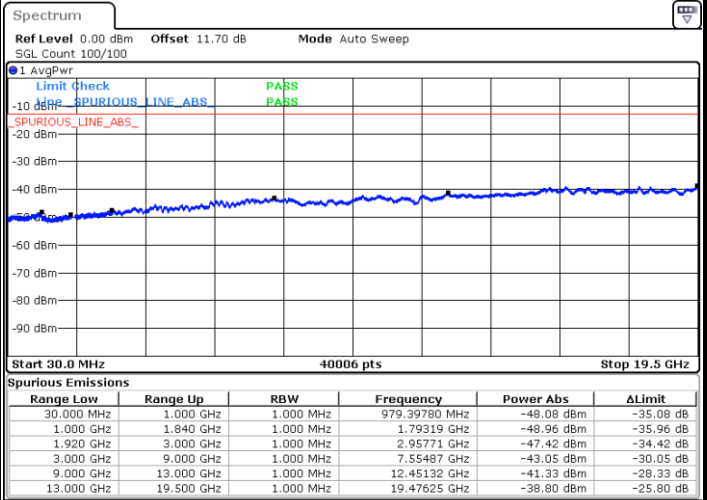
LTE Band 2 / 5MHz

Lowest Channel / QPSK



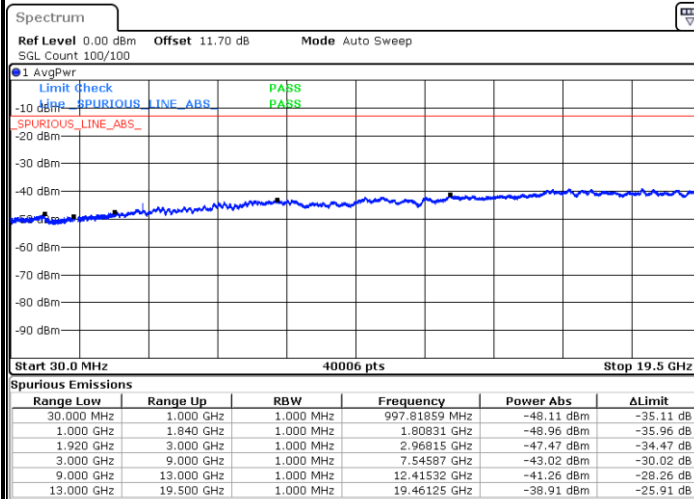
Date: 6 SEP. 2019 09:59:19

Lowest Channel / 16QAM



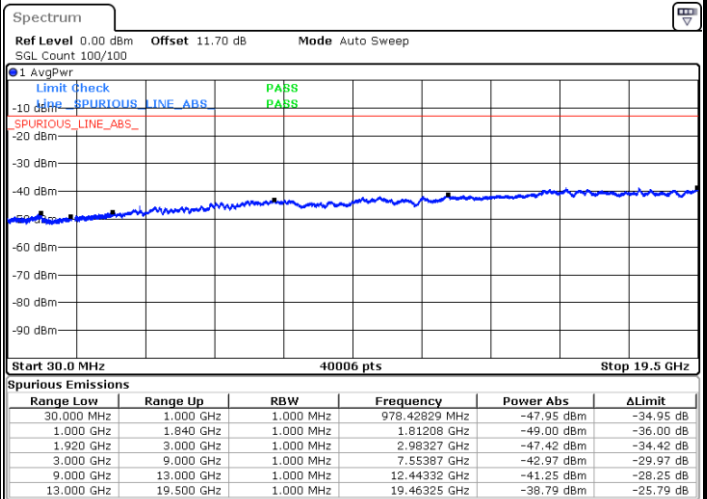
Date: 6 SEP. 2019 10:00:21

Middle Channel / QPSK



Date: 6 SEP. 2019 10:02:07

Middle Channel / 16QAM

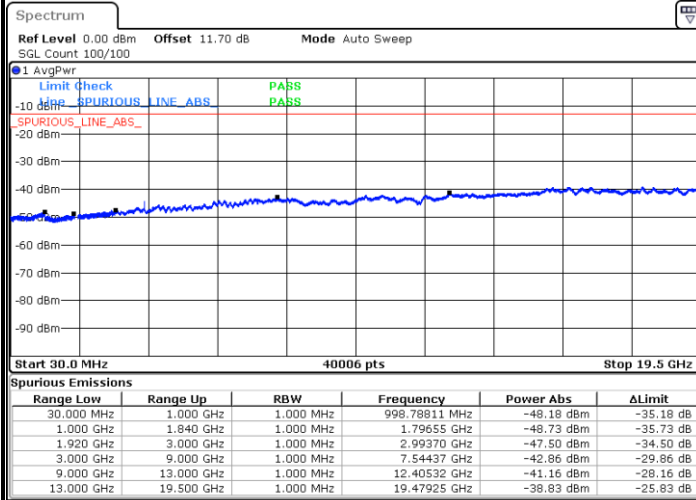


Date: 6 SEP. 2019 10:03:09



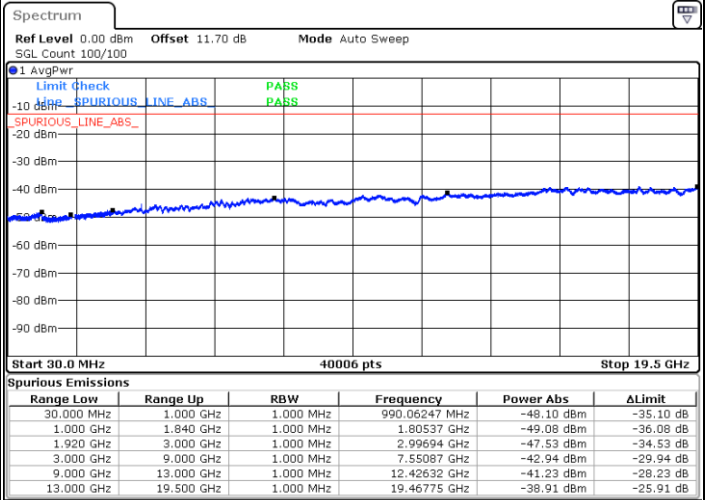
LTE Band 2 / 5MHz

Highest Channel / QPSK



Date: 6 SEP. 2019 10:09:02

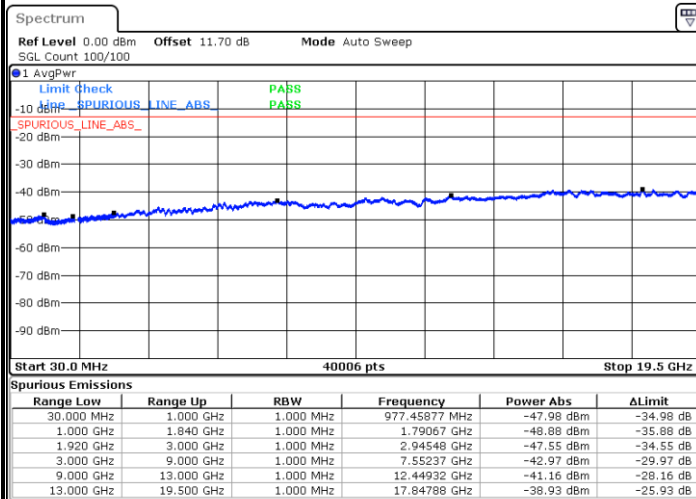
Highest Channel / 16QAM



Date: 6 SEP. 2019 10:10:02

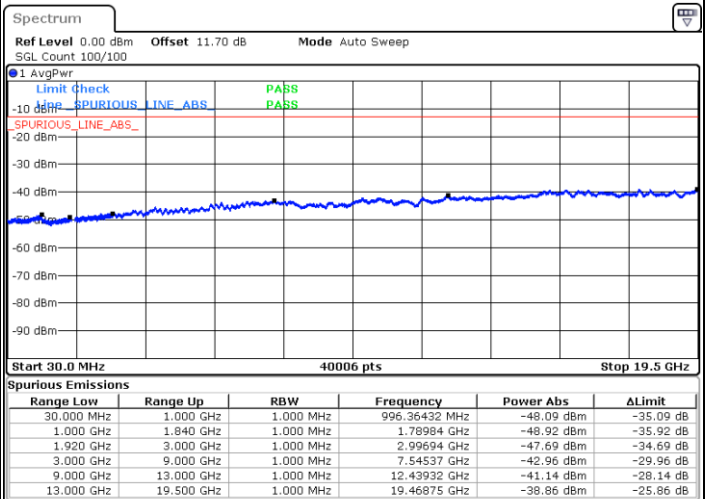
LTE Band 2 / 10MHz

Lowest Channel / QPSK



Date: 6 SEP. 2019 10:14:31

Lowest Channel / 16QAM

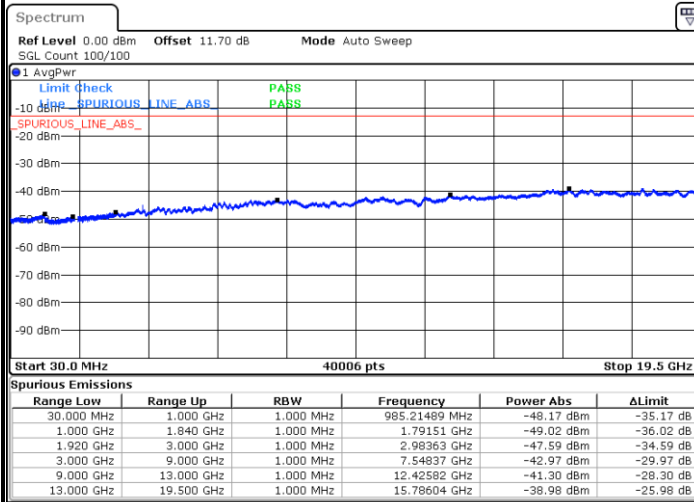


Date: 6 SEP. 2019 10:15:32



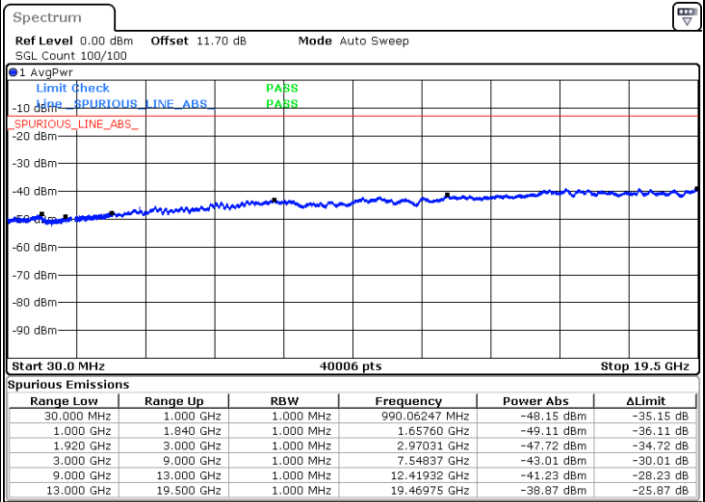
LTE Band 2 / 10MHz

Middle Channel / QPSK



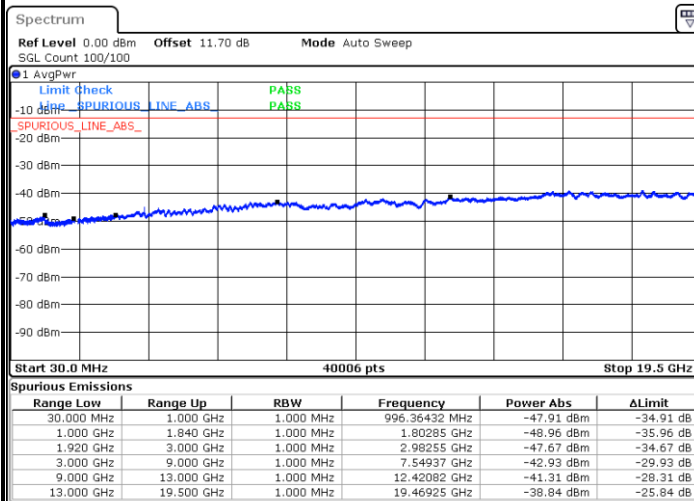
Date: 6 SEP. 2019 10:16:55

Middle Channel / 16QAM



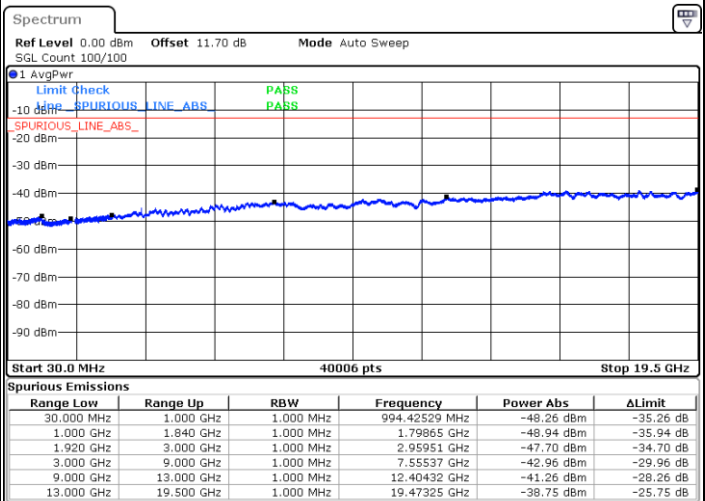
Date: 6 SEP. 2019 10:17:56

Highest Channel / QPSK



Date: 6 SEP. 2019 10:22:23

Highest Channel / 16QAM



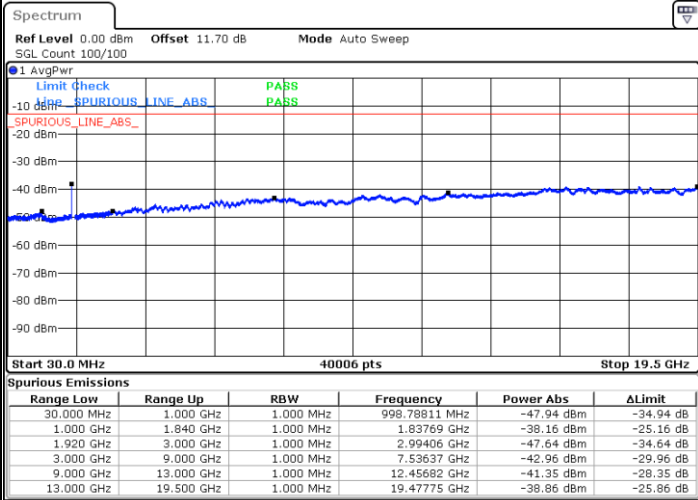
Date: 6 SEP. 2019 10:23:24



LTE Band 2 / 15MHz

Lowest Channel / QPSK

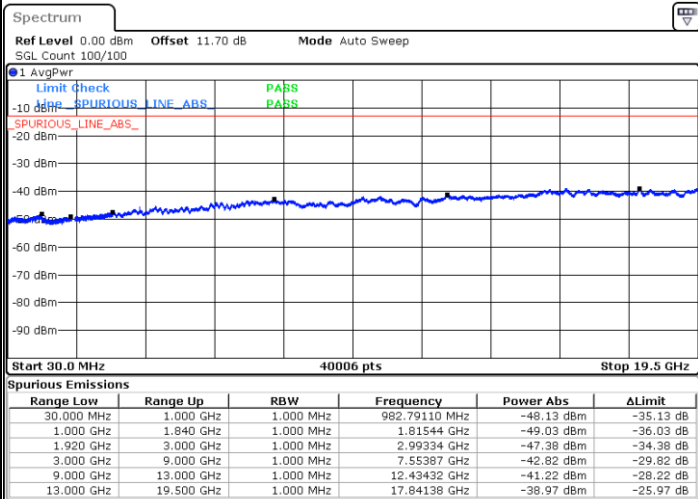
Lowest Channel / 16QAM



Date: 6 SEP. 2019 10:27:52

Middle Channel / QPSK

Middle Channel / 16QAM



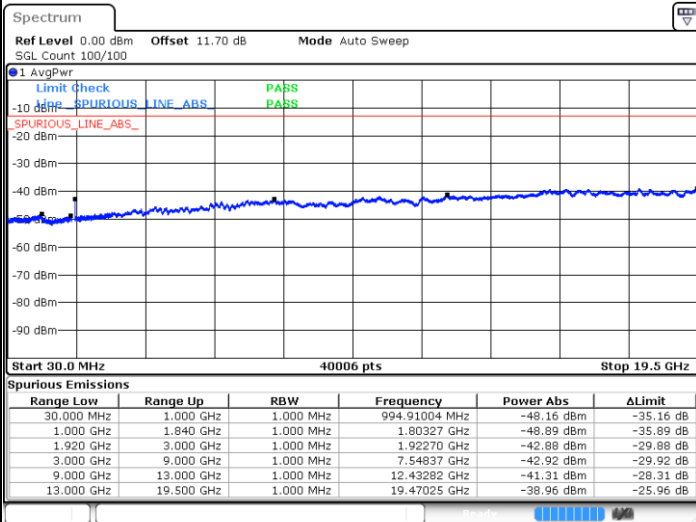
Date: 6 SEP. 2019 10:30:17



LTE Band 2 / 15MHz

Highest Channel / QPSK

Highest Channel / 16QAM

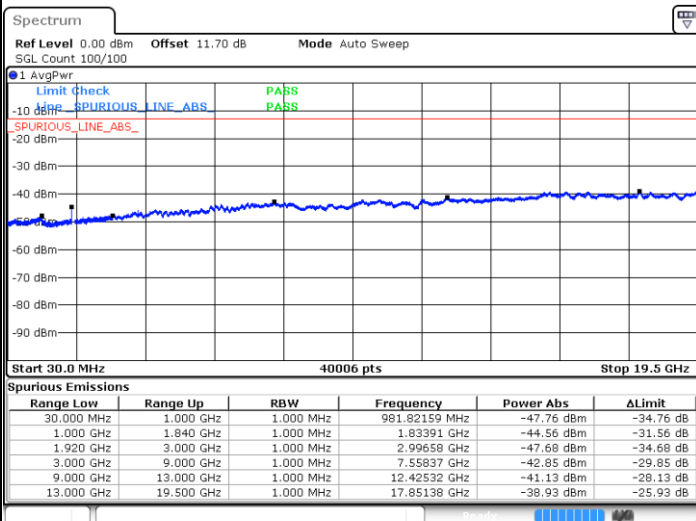


Date: 6 SEP. 2019 10:35:45

LTE Band 2 / 20MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



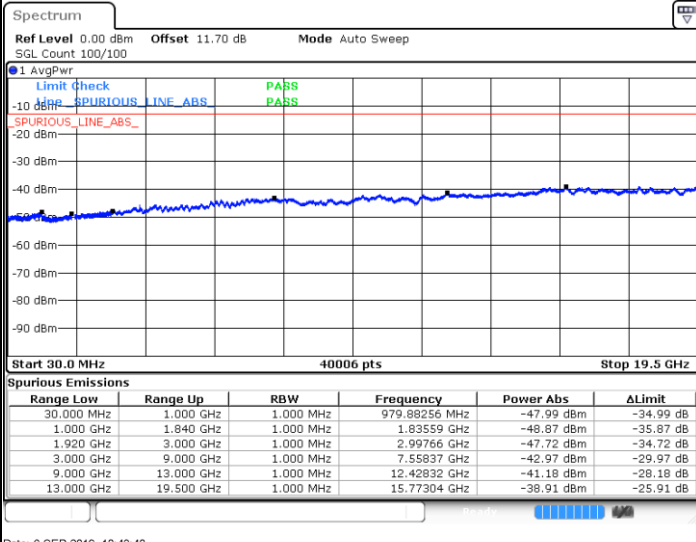
Date: 6 SEP. 2019 10:41:15



LTE Band 2 / 20MHz

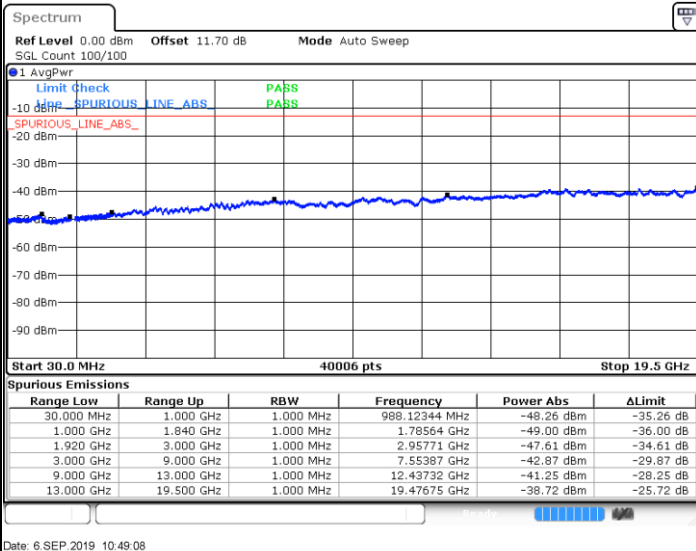
Middle Channel / QPSK

Middle Channel / 16QAM



Highest Channel / QPSK

Highest Channel / 16QAM



Frequency Stability

Test Conditions		LTE Band 2 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0005	PASS
40	Normal Voltage	0.0073	
30	Normal Voltage	0.0003	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0007	
0	Normal Voltage	0.0005	
-10	Normal Voltage	0.0003	
-20	Normal Voltage	0.0007	
-30	Normal Voltage	0.0003	
20	Maximum Voltage	0.0069	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0080	

Note:

1. Normal Voltage =4.0 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.3 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

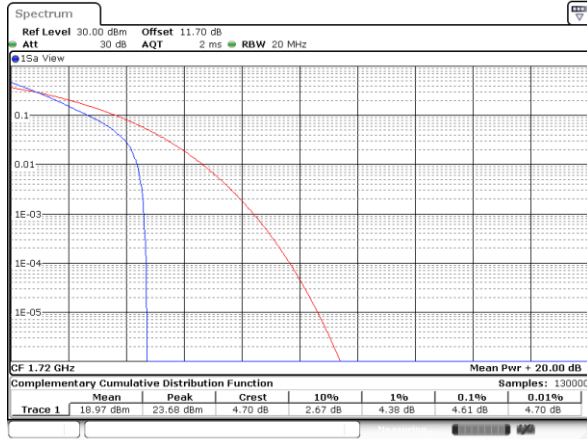
**LTE Band 4****Peak-to-Average Ratio**

Mode	LTE Band 4 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.61	4.96		-	PASS
Middle CH	4.78	4.87		-	
Highest CH	4.64	4.81		-	

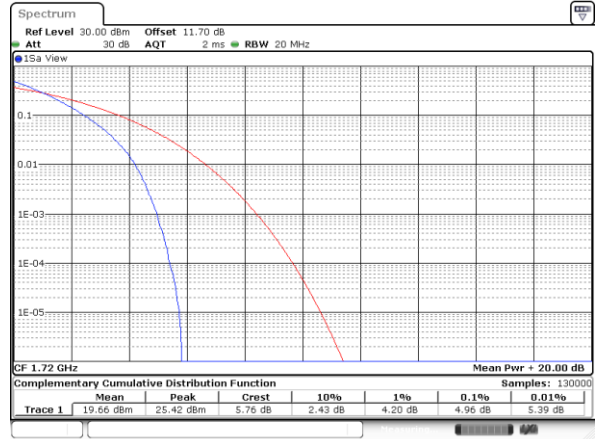


LTE Band 4 / 20MHz / QPSK

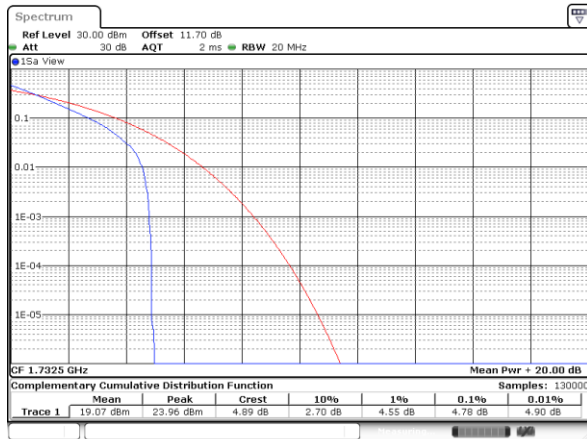
Lowest Channel / 1RB



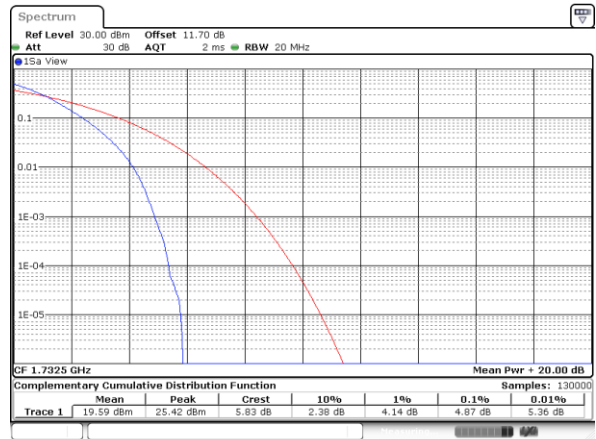
Lowest Channel / Full RB



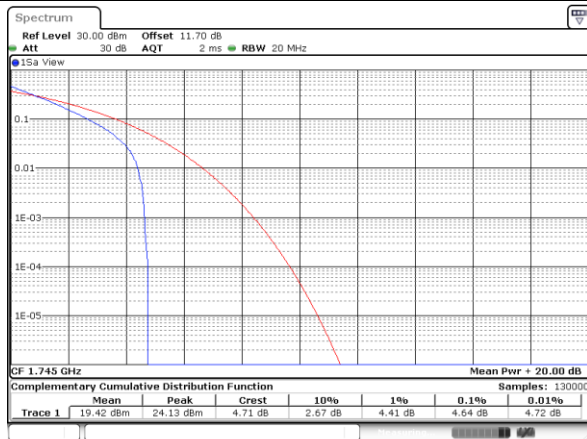
Middle Channel / 1RB



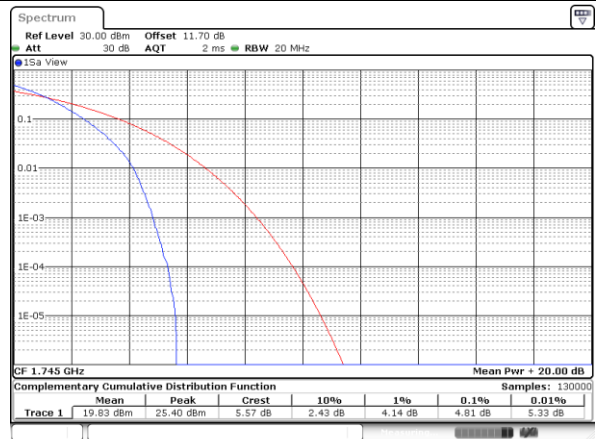
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB





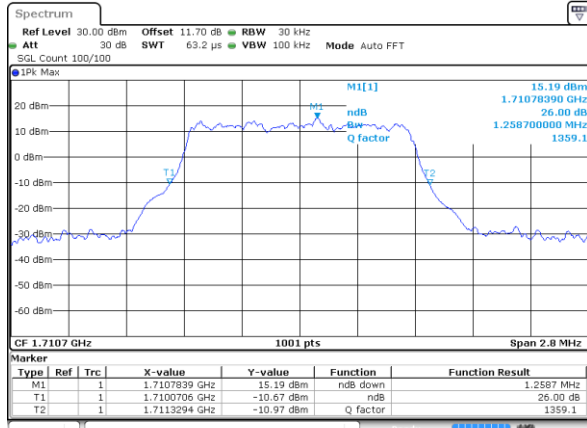
26dB Bandwidth

Mode	LTE Band 4 : 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	1.26	1.3	3	2.97	5	4.96	9.83	-	14.42	-	18.86	-
Middle CH	1.27	1.27	2.99	3.02	5.01	4.96	9.69	-	14.56	-	18.94	-
Highest CH	1.27	1.26	3.02	3.02	4.97	4.87	9.75	-	14.62	-	19.06	-



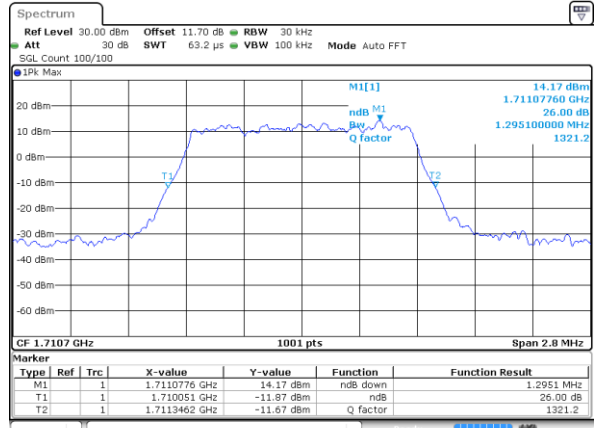
LTE Band 4

Lowest Channel / 1.4MHz / QPSK



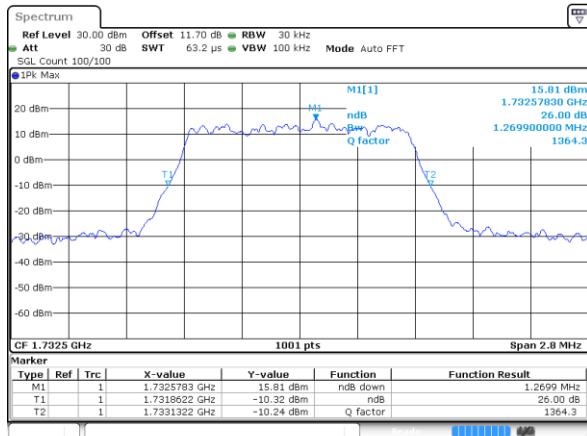
Date: 6 SEP 2019 14:05:38

Lowest Channel / 1.4MHz / 16QAM



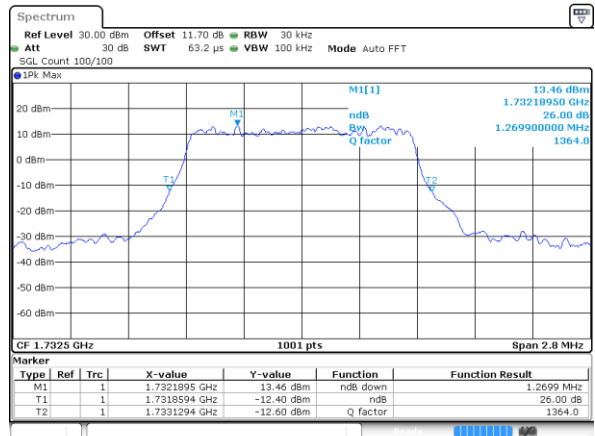
Date: 6 SEP 2019 14:05:51

Middle Channel / 1.4MHz / QPSK



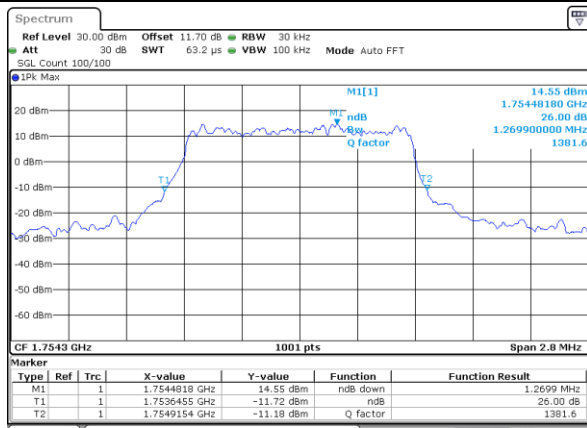
Date: 6 SEP 2019 14:12:44

Middle Channel / 1.4MHz / 16QAM



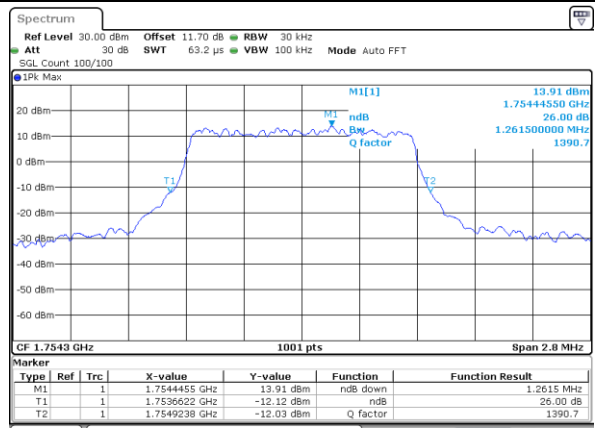
Date: 6 SEP 2019 14:12:56

Highest Channel / 1.4MHz / QPSK



Date: 6 SEP 2019 14:15:33

Highest Channel / 1.4MHz / 16QAM

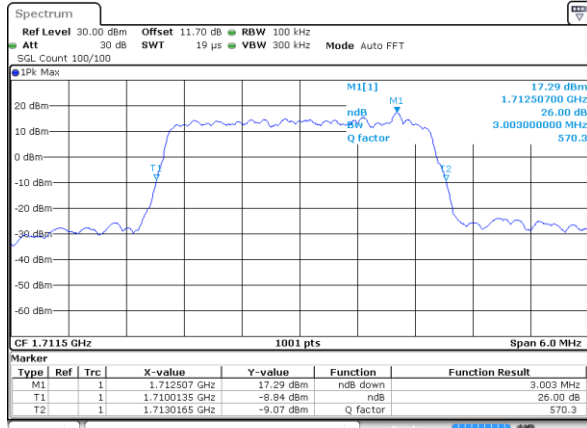


Date: 6 SEP 2019 14:15:45



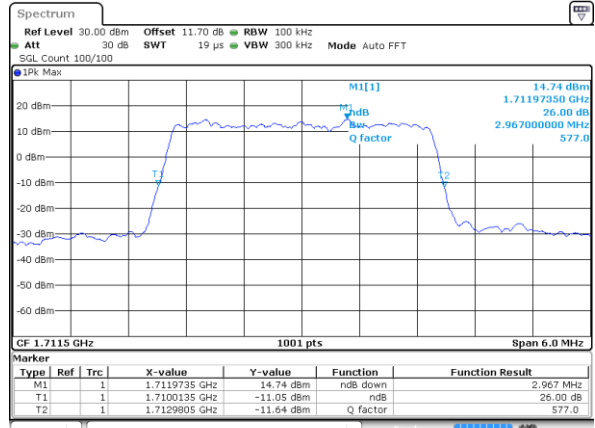
LTE Band 4

Lowest Channel / 3MHz / QPSK



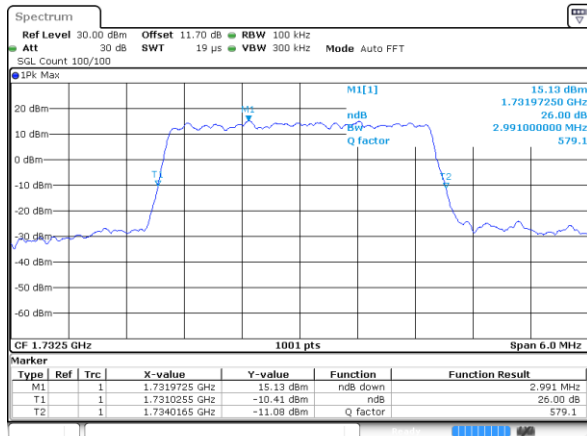
Date: 6 SEP 2019 14:22:40

Lowest Channel / 3MHz / 16QAM



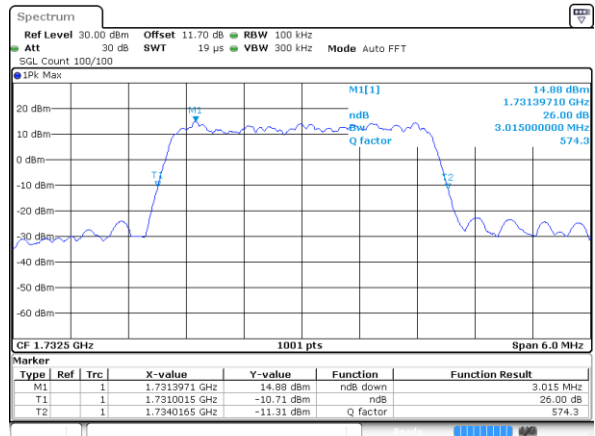
Date: 6 SEP 2019 14:22:53

Middle Channel / 3MHz / QPSK



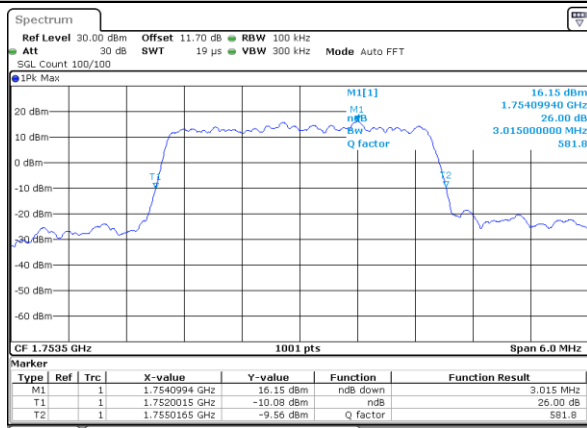
Date: 6 SEP 2019 14:29:33

Middle Channel / 3MHz / 16QAM



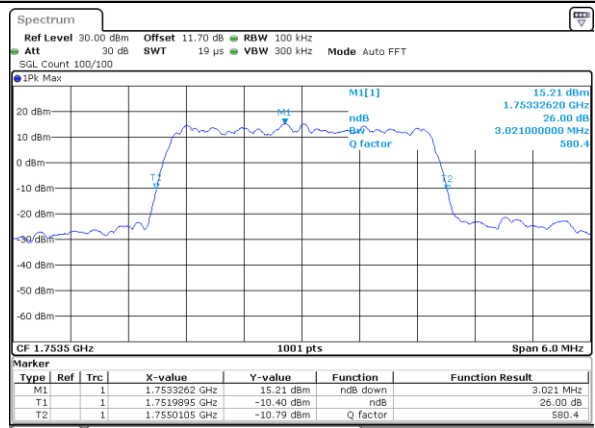
Date: 6 SEP 2019 14:29:45

Highest Channel / 3MHz / QPSK



Date: 6 SEP 2019 14:32:22

Highest Channel / 3MHz / 16QAM

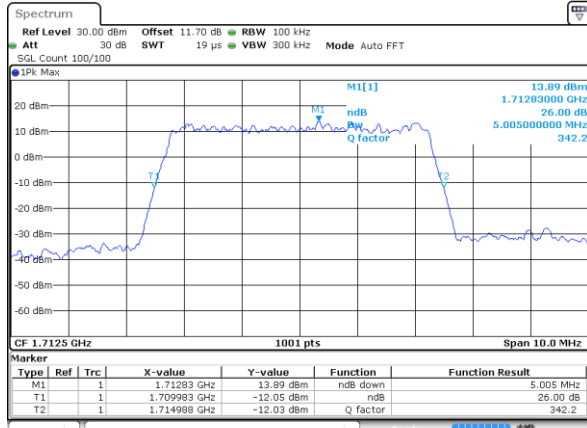


Date: 6 SEP 2019 14:32:34



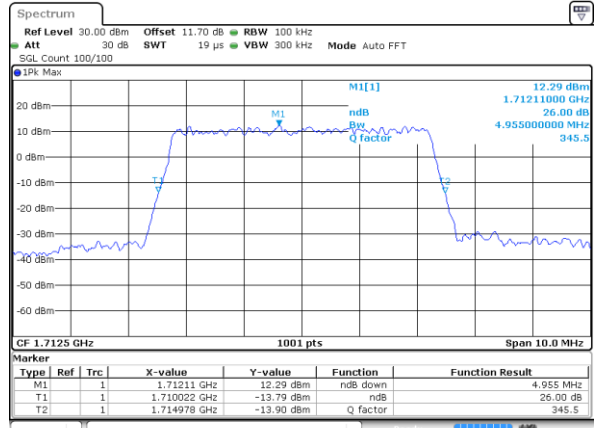
LTE Band 4

Lowest Channel / 5MHz / QPSK



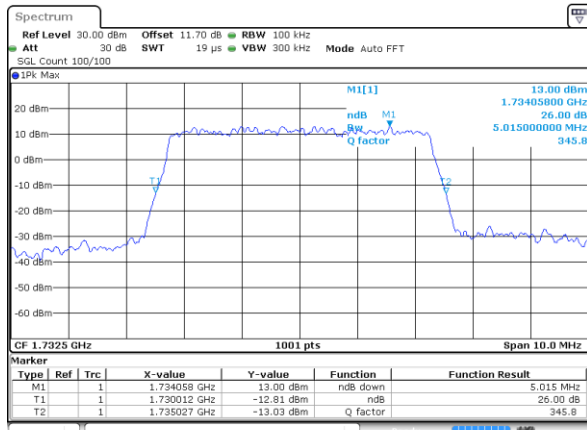
Date: 6 SEP 2019 14:39:17

Lowest Channel / 5MHz / 16QAM



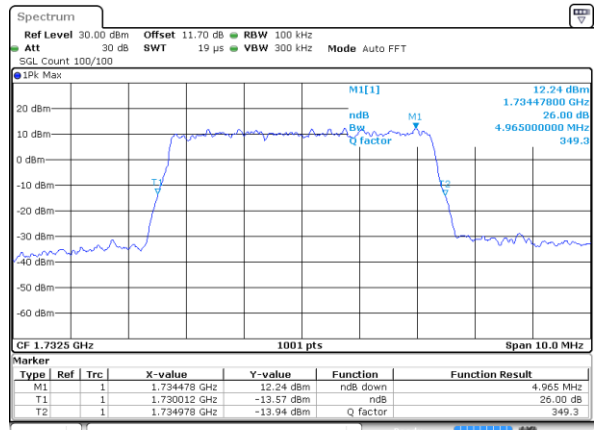
Date: 6 SEP 2019 14:39:30

Middle Channel / 5MHz / QPSK



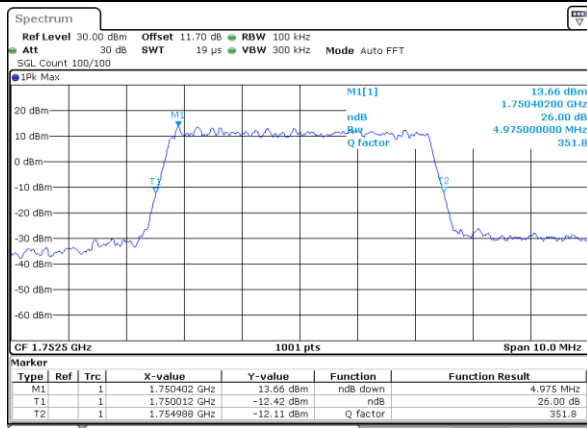
Date: 6 SEP 2019 14:46:10

Middle Channel / 5MHz / 16QAM



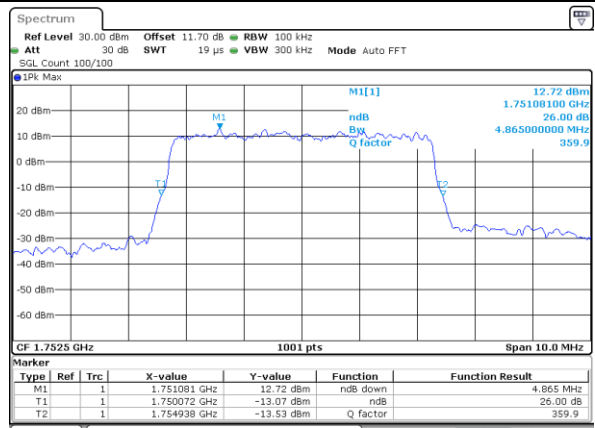
Date: 6 SEP 2019 14:46:22

Highest Channel / 5MHz / QPSK



Date: 6 SEP 2019 15:58:10

Highest Channel / 5MHz / 16QAM

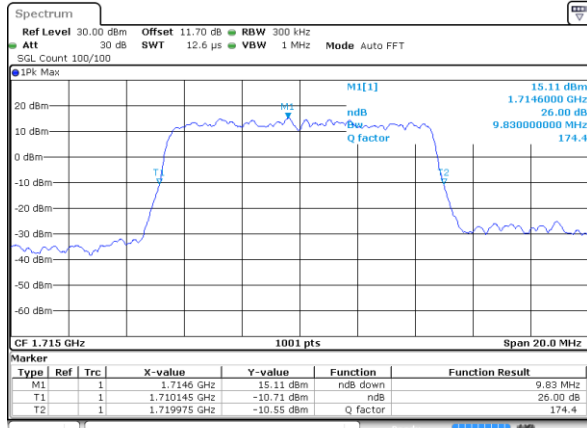


Date: 6 SEP 2019 14:49:11



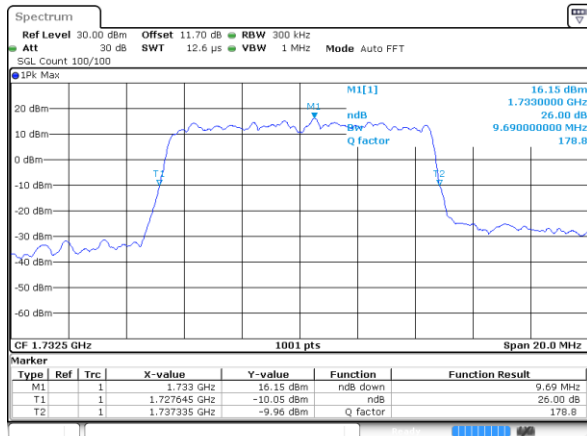
LTE Band 4

Lowest Channel / 10MHz / QPSK



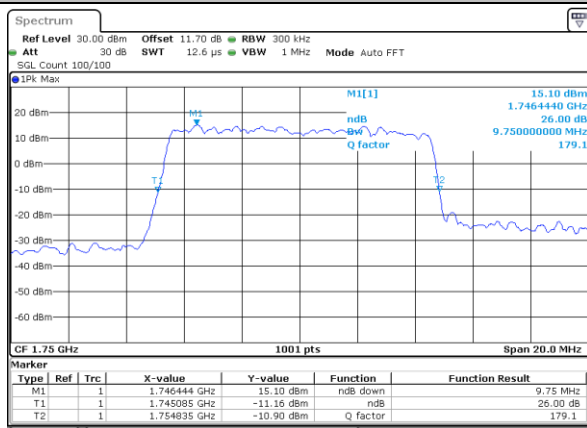
Lowest Channel / 10MHz / 16QAM

Middle Channel / 10MHz / QPSK



Middle Channel / 10MHz / 16QAM

Highest Channel / 10MHz / QPSK

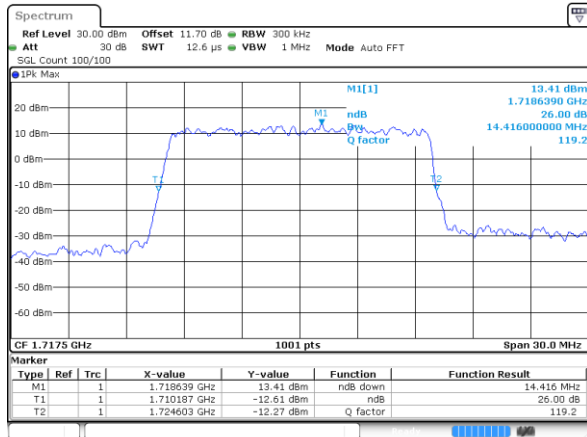


Highest Channel / 10MHz / 16QAM



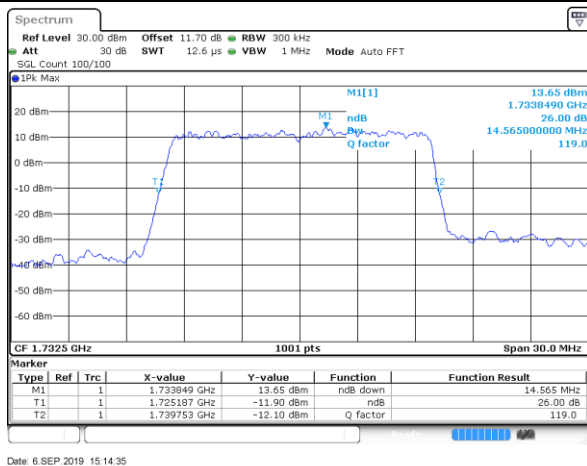
LTE Band 4

Lowest Channel / 15MHz / QPSK



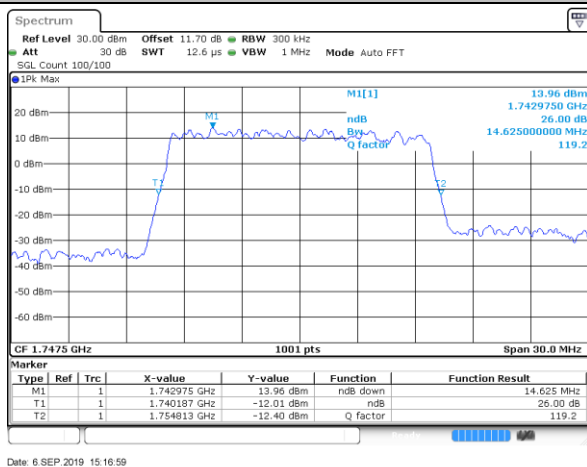
Lowest Channel / 15MHz / 16QAM

Middle Channel / 15MHz / QPSK



Middle Channel / 15MHz / 16QAM

Highest Channel / 15MHz / QPSK

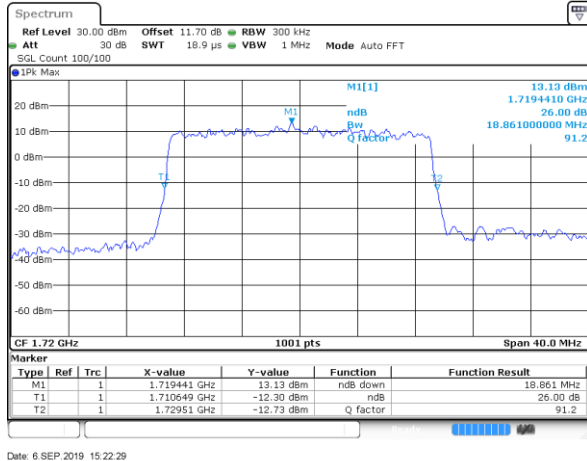


Highest Channel / 15MHz / 16QAM



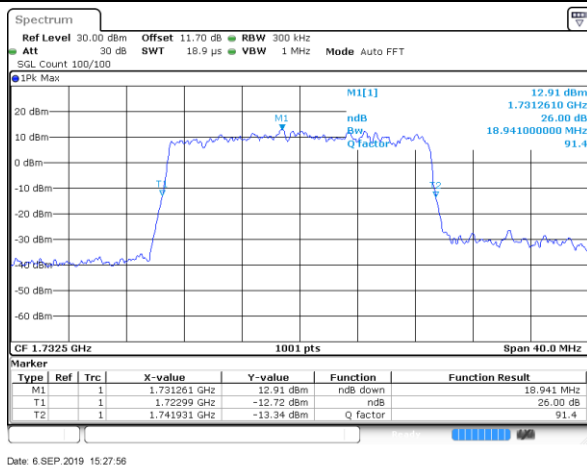
LTE Band 4

Lowest Channel / 20MHz / QPSK



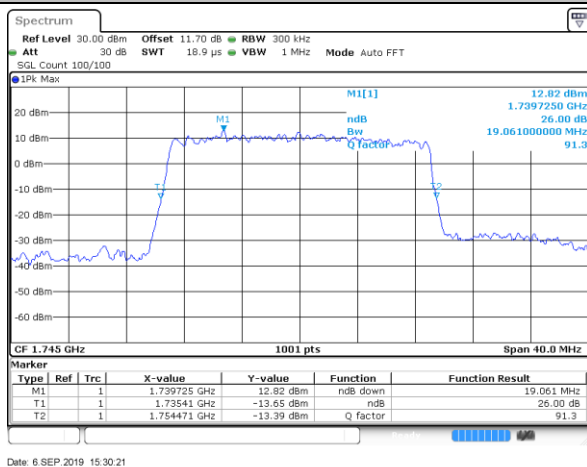
Lowest Channel / 20MHz / 16QAM

Middle Channel / 20MHz / QPSK



Middle Channel / 20MHz / 16QAM

Highest Channel / 20MHz / QPSK



Highest Channel / 20MHz / 16QAM



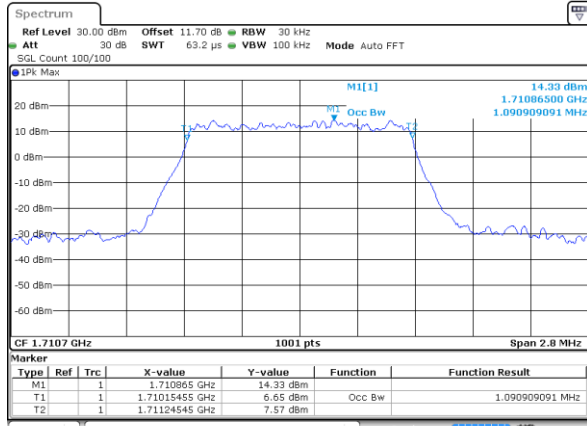
Occupied Bandwidth

Mode	LTE Band 4 : 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	1.1	2.71	2.7	4.5	4.47	9.01	-	13.4	-	17.86	-
Middle CH	1.1	1.09	2.72	2.72	4.49	4.51	8.99	-	13.4	-	17.9	-
Highest CH	1.1	1.09	2.73	2.71	4.5	4.5	9.01	-	13.4	-	17.82	-

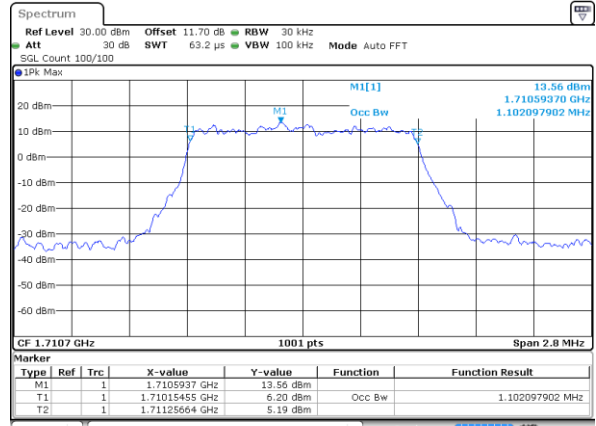


LTE Band 4

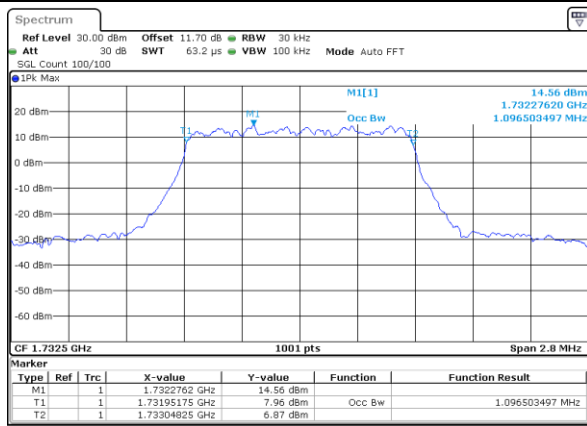
Lowest Channel / 1.4MHz / QPSK



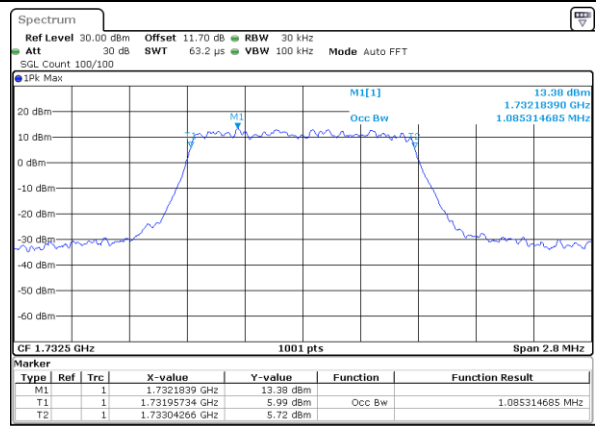
Lowest Channel / 1.4MHz / 16QAM



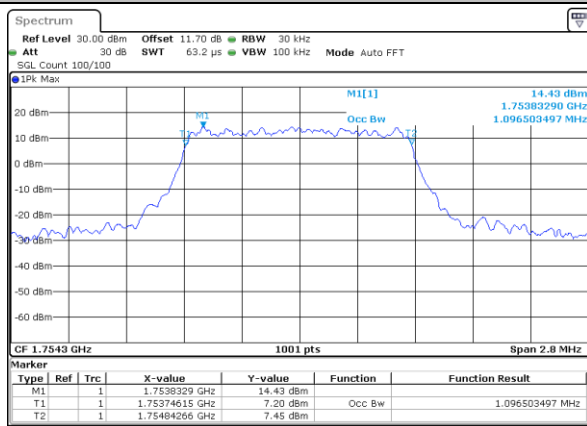
Middle Channel / 1.4MHz / QPSK



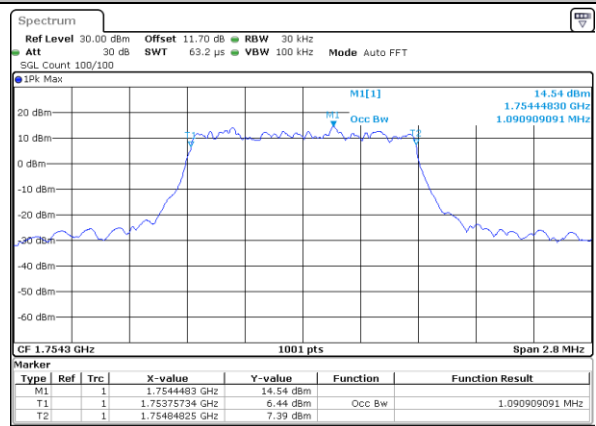
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



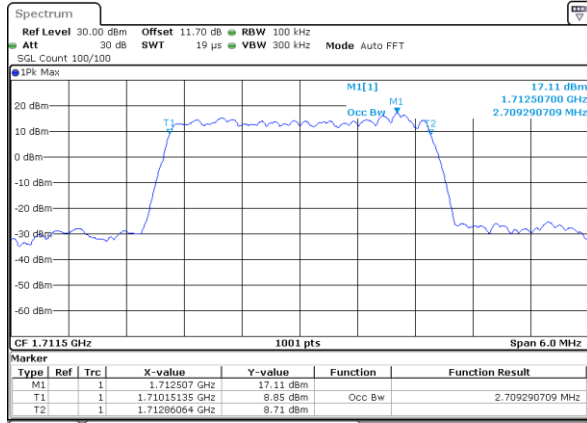
Highest Channel / 1.4MHz / 16QAM





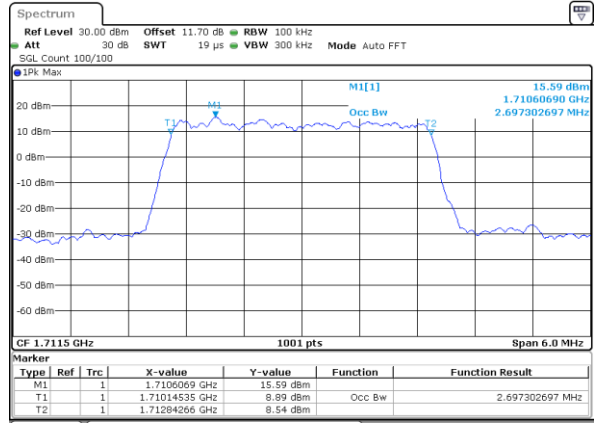
LTE Band 4

Lowest Channel / 3MHz / QPSK



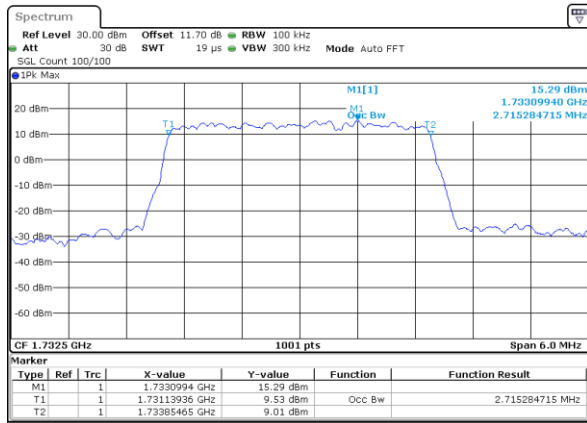
Date: 6 SEP 2019 14:22:16

Lowest Channel / 3MHz / 16QAM



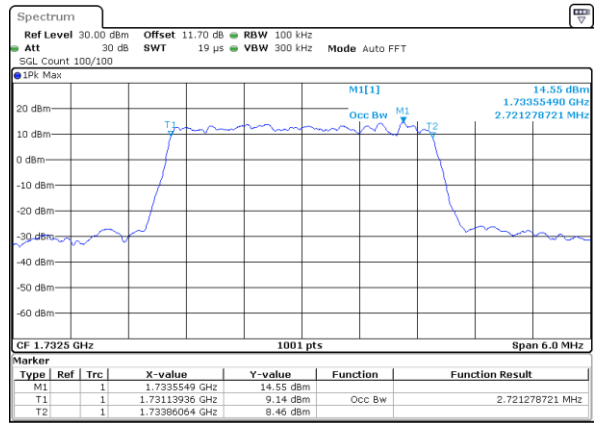
Date: 6 SEP 2019 14:22:28

Middle Channel / 3MHz / QPSK



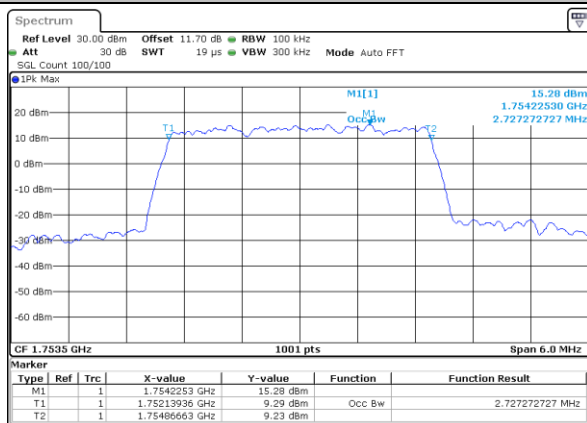
Date: 6 SEP 2019 14:29:10

Middle Channel / 3MHz / 16QAM



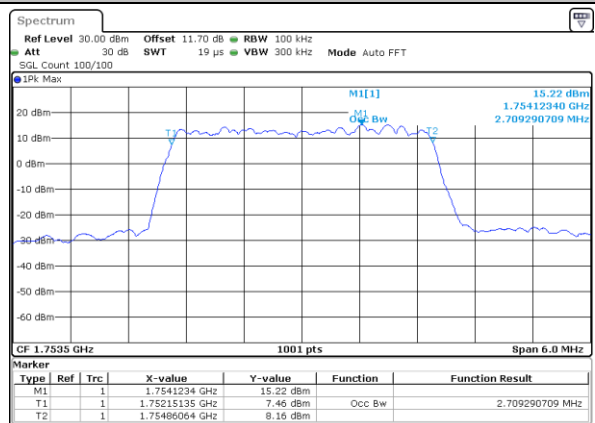
Date: 6 SEP 2019 14:29:22

Highest Channel / 3MHz / QPSK



Date: 6 SEP 2019 14:31:58

Highest Channel / 3MHz / 16QAM

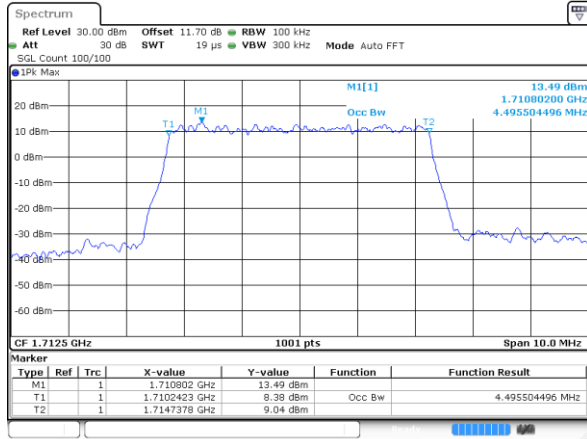


Date: 6 SEP 2019 14:32:10



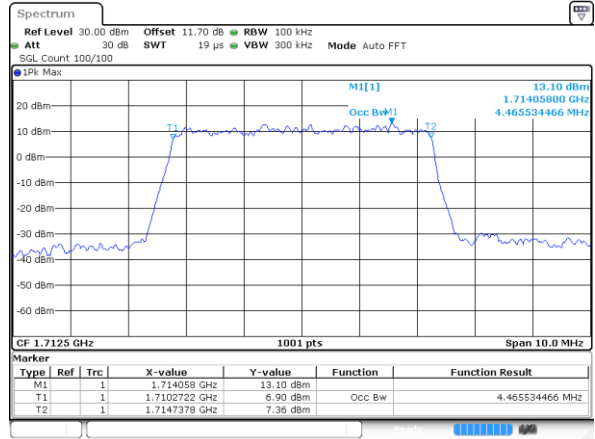
LTE Band 4

Lowest Channel / 5MHz / QPSK



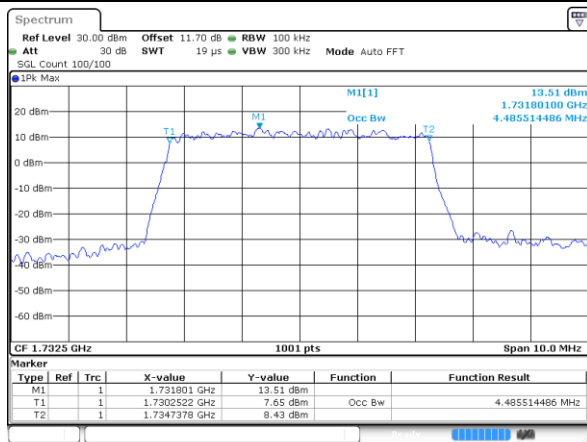
Date: 6 SEP 2019 14:38:53

Lowest Channel / 5MHz / 16QAM



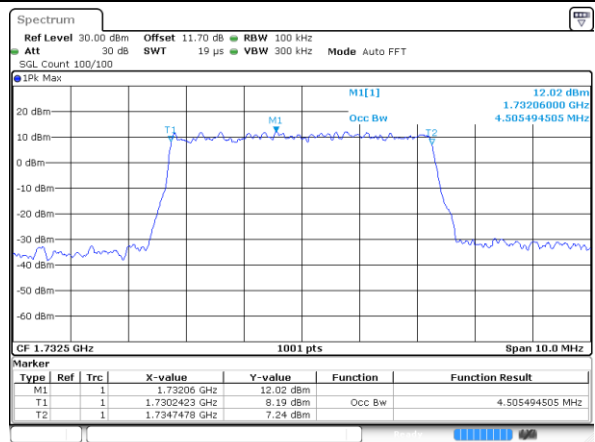
Date: 6 SEP 2019 14:39:05

Middle Channel / 5MHz / QPSK



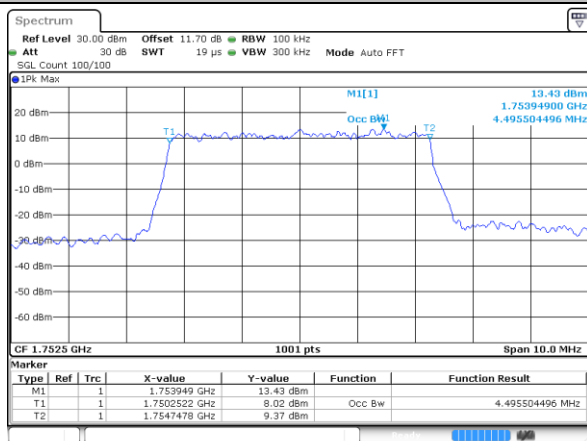
Date: 6 SEP 2019 14:45:47

Middle Channel / 5MHz / 16QAM



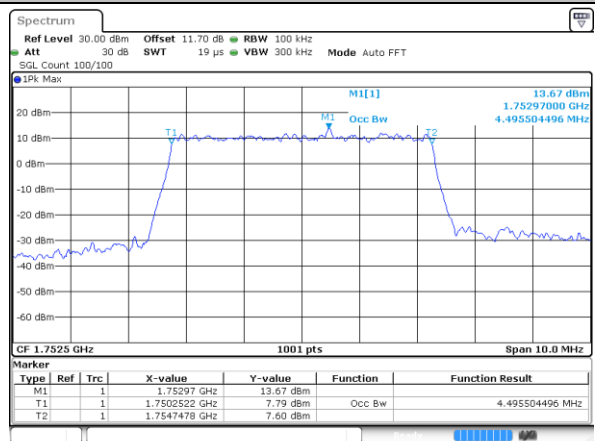
Date: 6 SEP 2019 14:45:59

Highest Channel / 5MHz / QPSK



Date: 6 SEP 2019 14:48:35

Highest Channel / 5MHz / 16QAM

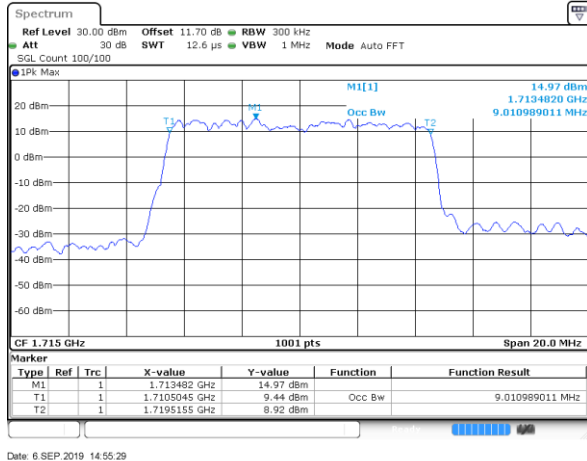


Date: 6 SEP 2019 14:48:47



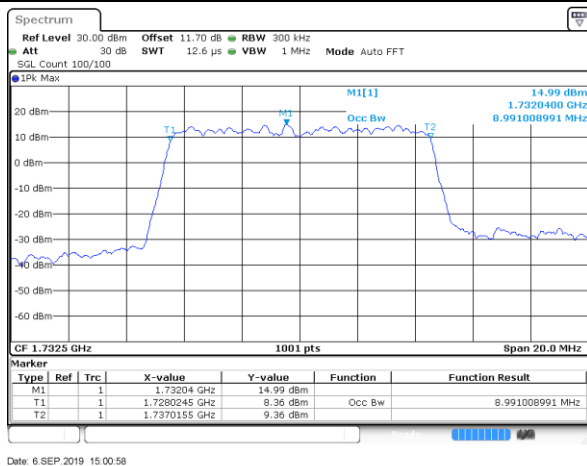
LTE Band 4

Lowest Channel / 10MHz / QPSK



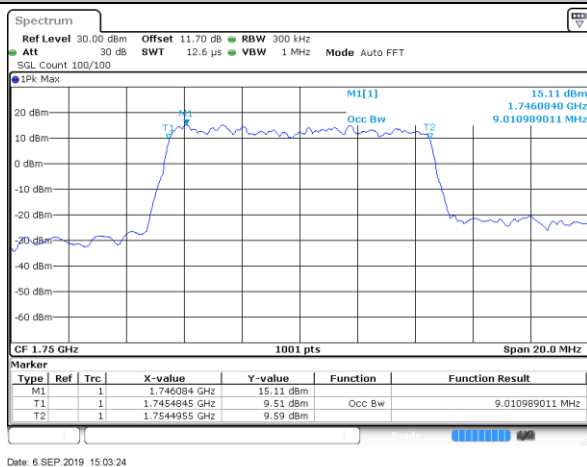
Lowest Channel / 10MHz / 16QAM

Middle Channel / 10MHz / QPSK



Middle Channel / 10MHz / 16QAM

Highest Channel / 10MHz / QPSK

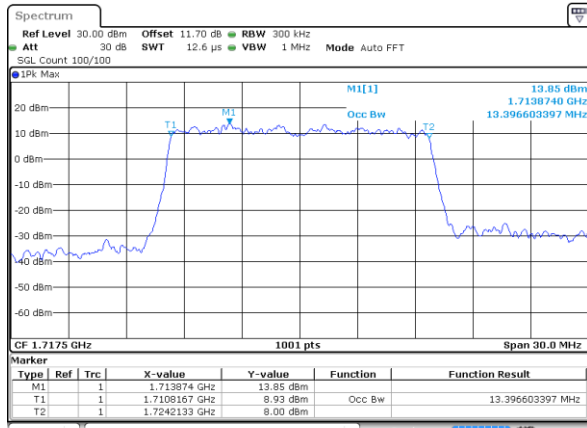


Highest Channel / 10MHz / 16QAM



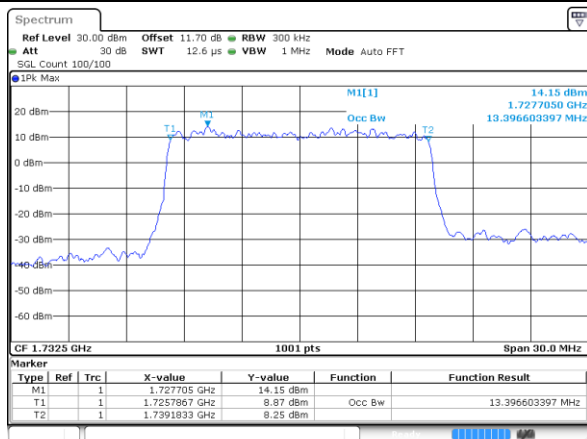
LTE Band 4

Lowest Channel / 15MHz / QPSK



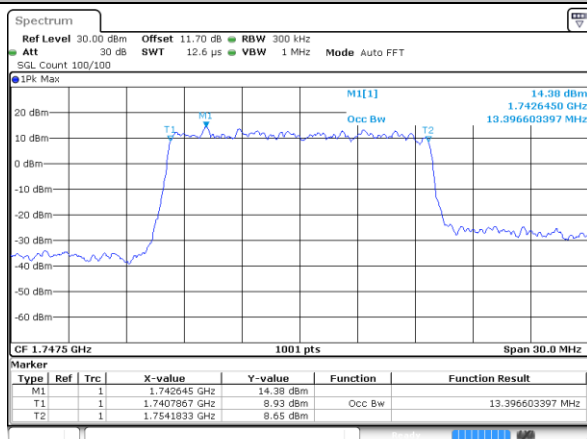
Lowest Channel / 15MHz / 16QAM

Middle Channel / 15MHz / QPSK



Middle Channel / 15MHz / 16QAM

Highest Channel / 15MHz / QPSK

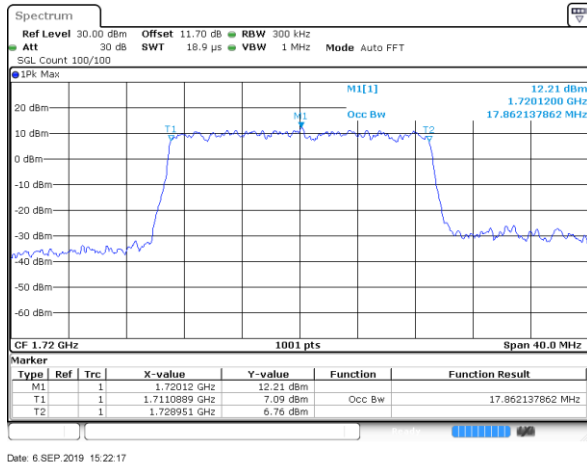


Highest Channel / 15MHz / 16QAM



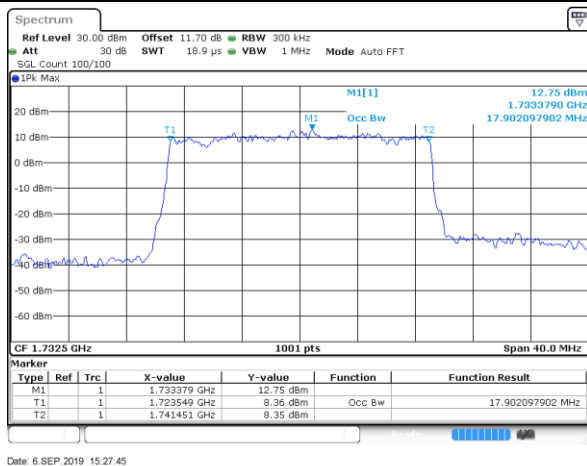
LTE Band 4

Lowest Channel / 20MHz / QPSK



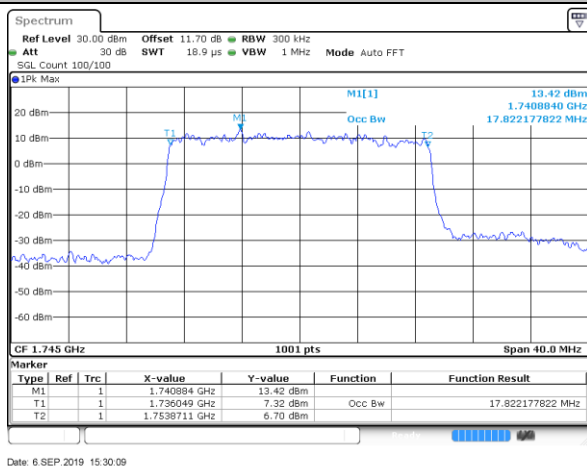
Lowest Channel / 20MHz / 16QAM

Middle Channel / 20MHz / QPSK

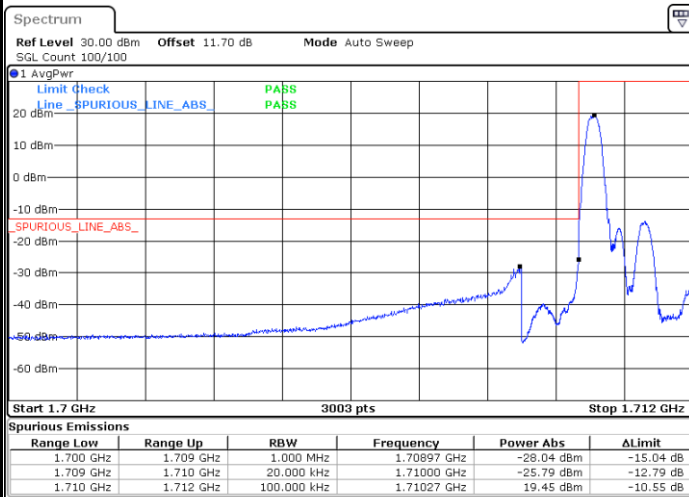
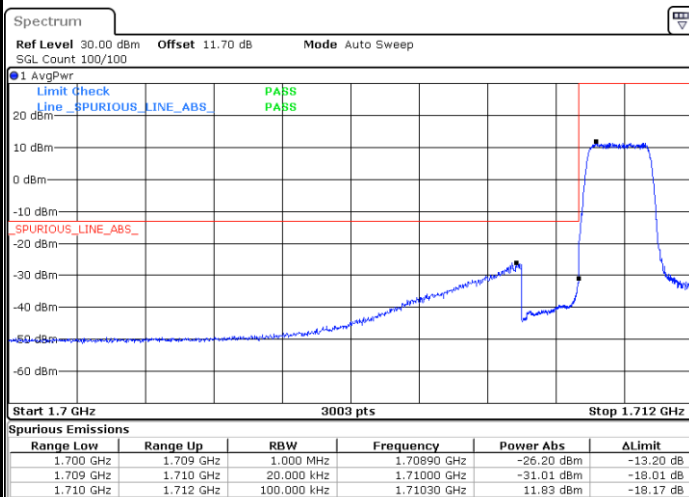
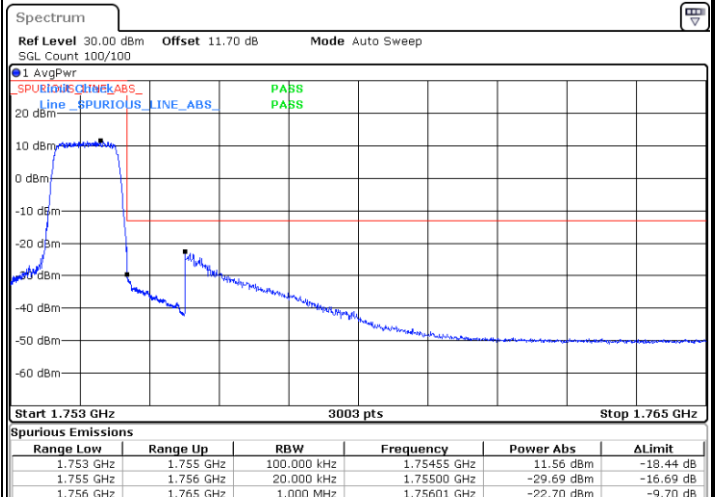


Middle Channel / 20MHz / 16QAM

Highest Channel / 20MHz / QPSK



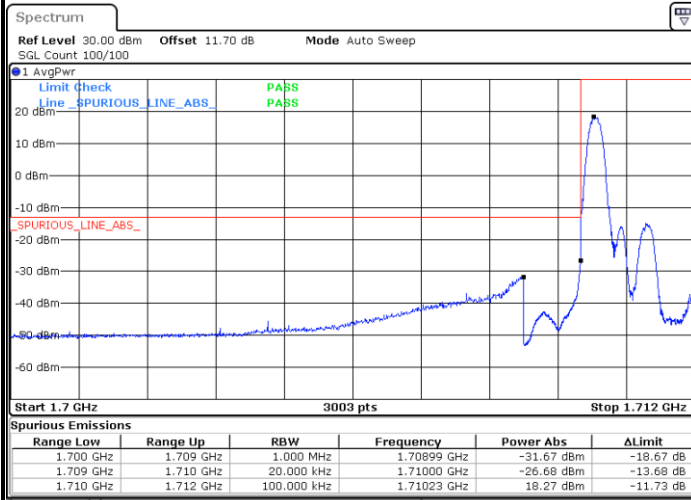
Highest Channel / 20MHz / 16QAM

**Conducted Band Edge****LTE Band 4 / 1.4MHz / QPSK****Lowest Band Edge / 1RB****Highest Band Edge / 1RB****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**



LTE Band 4 / 1.4MHz / 16QAM

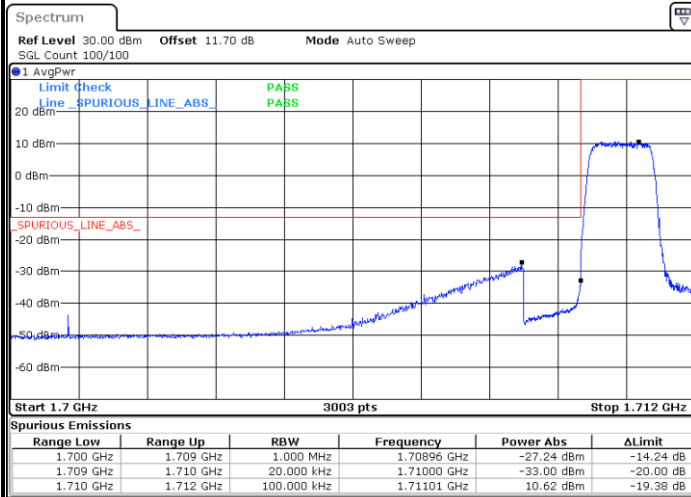
Lowest Band Edge / 1 RB



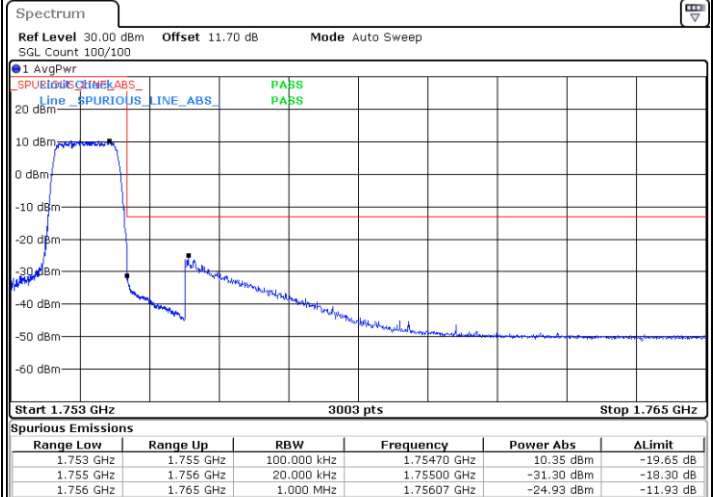
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



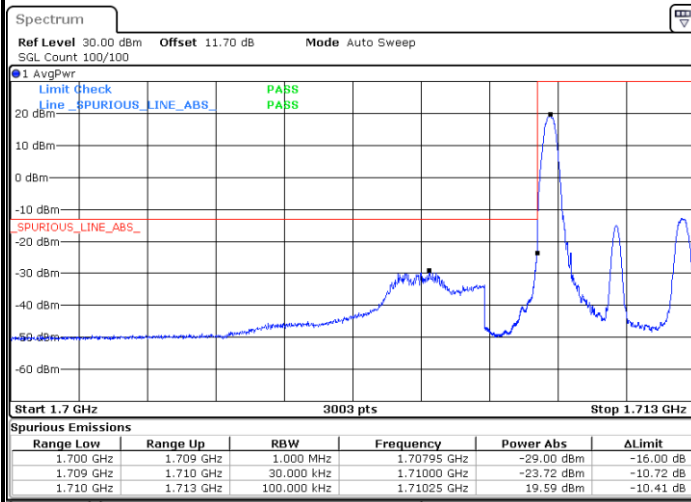
Highest Band Edge / Full RB



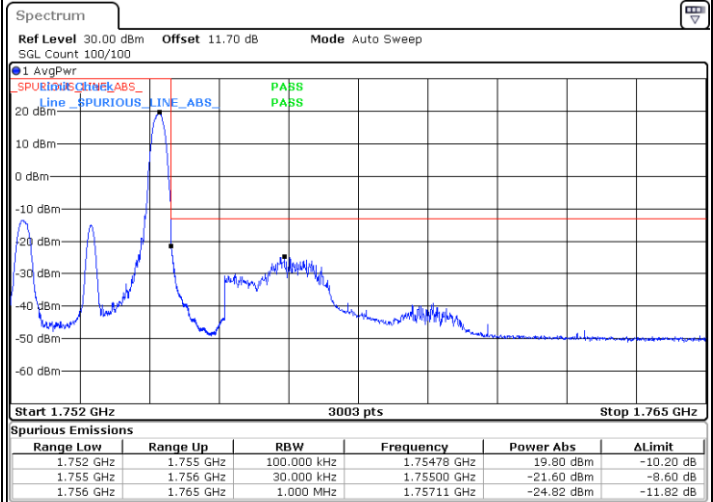


LTE Band 4 / 3MHz / QPSK

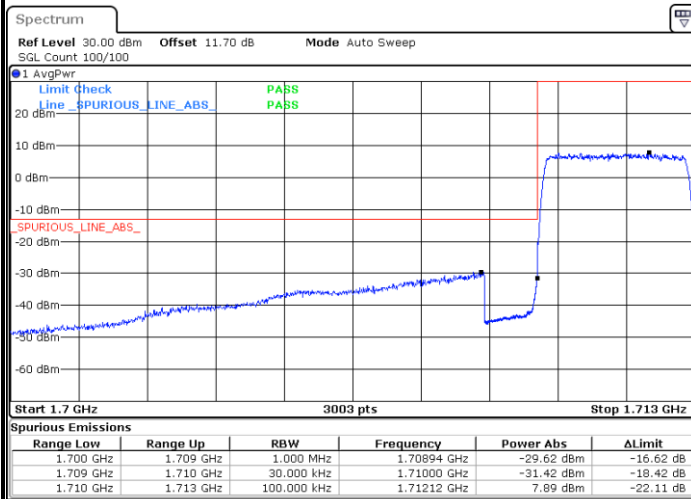
Lowest Band Edge / 1RB



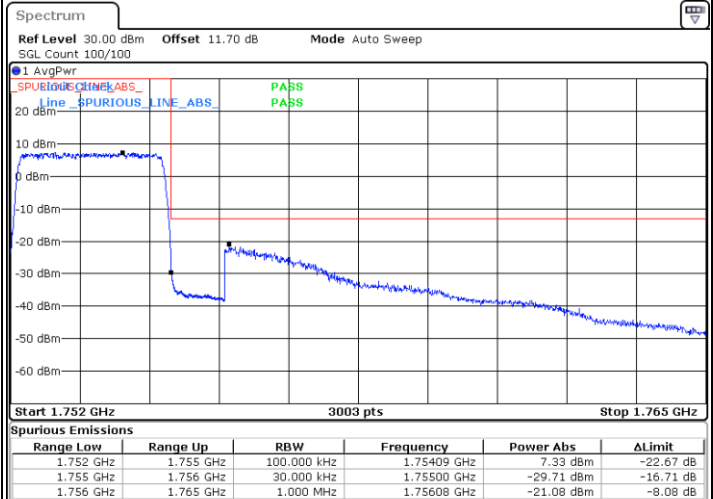
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



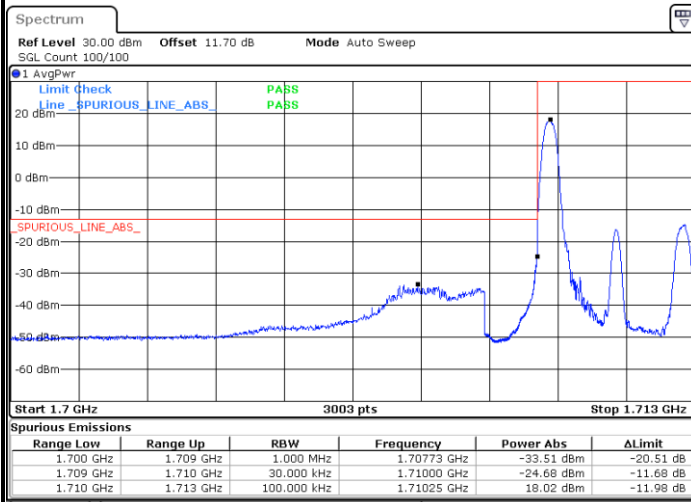
Highest Band Edge / Full RB



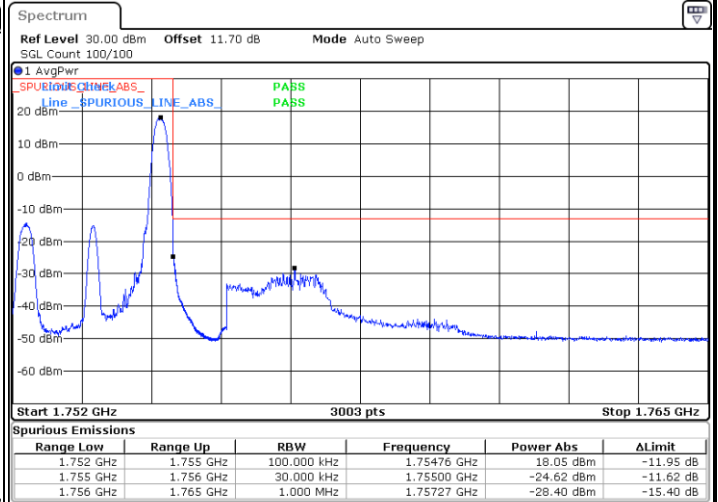


LTE Band 4 / 3MHz / 16QAM

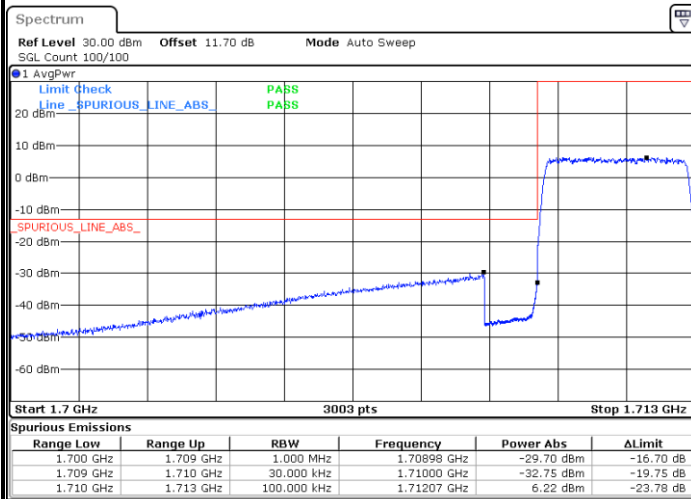
Lowest Band Edge / 1 RB



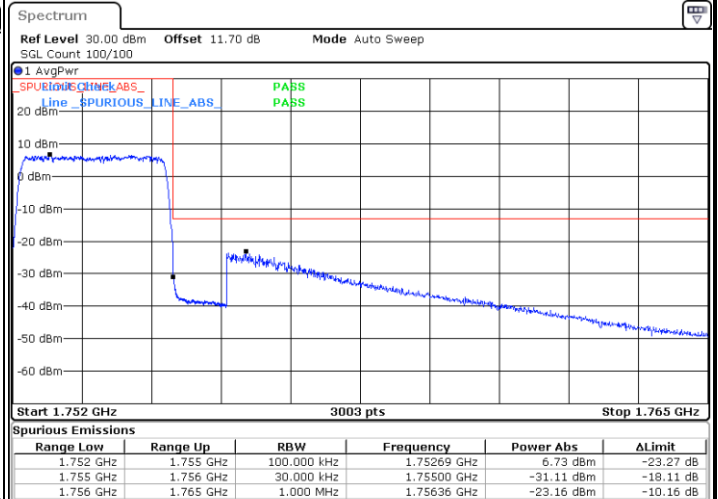
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



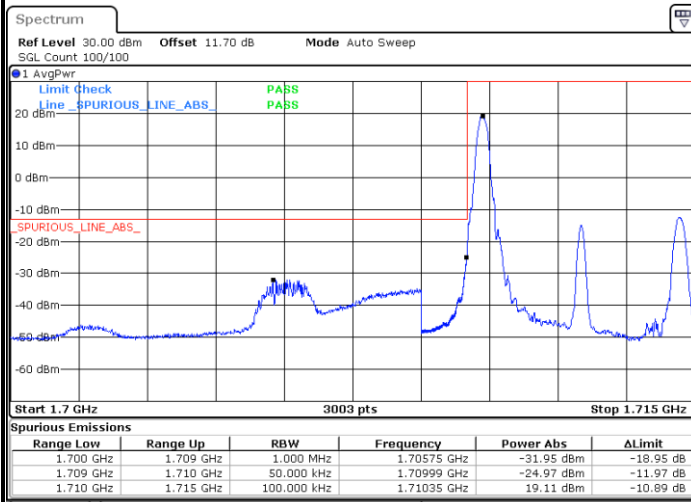
Highest Band Edge / Full RB



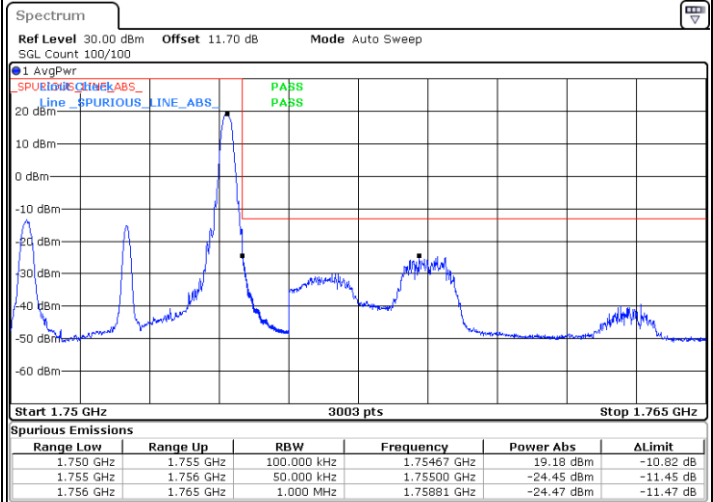


LTE Band 4 / 5MHz / QPSK

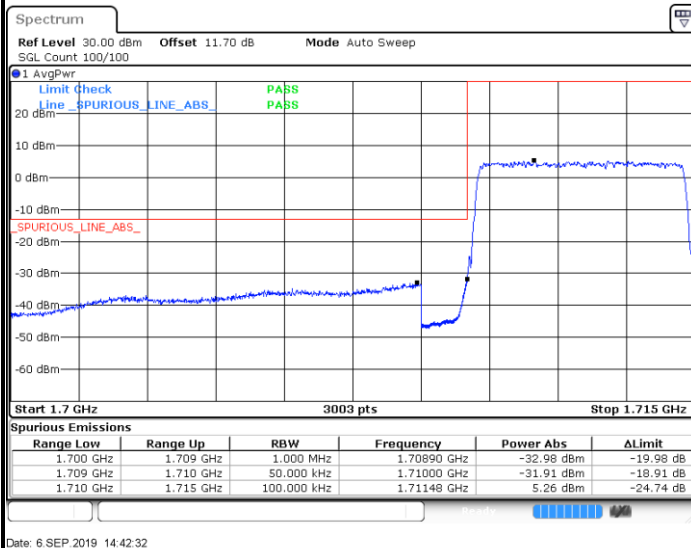
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

