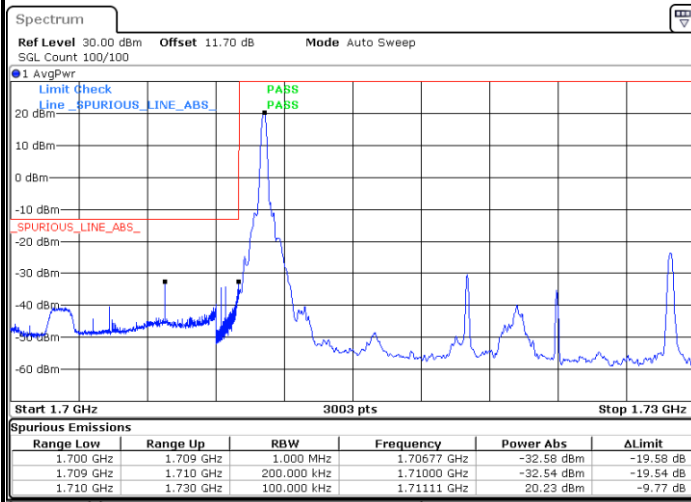


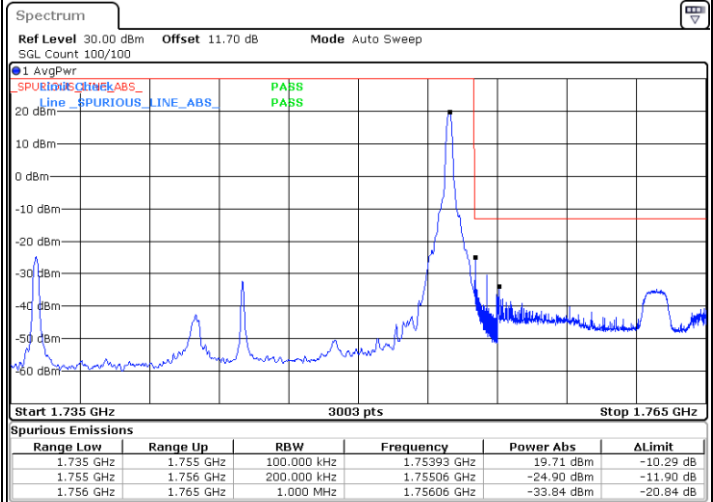


LTE Band 4 / 20MHz / QPSK

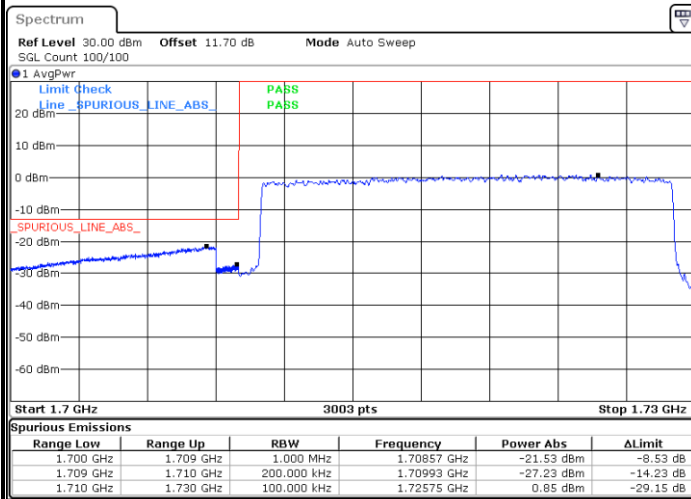
Lowest Band Edge / 1 RB



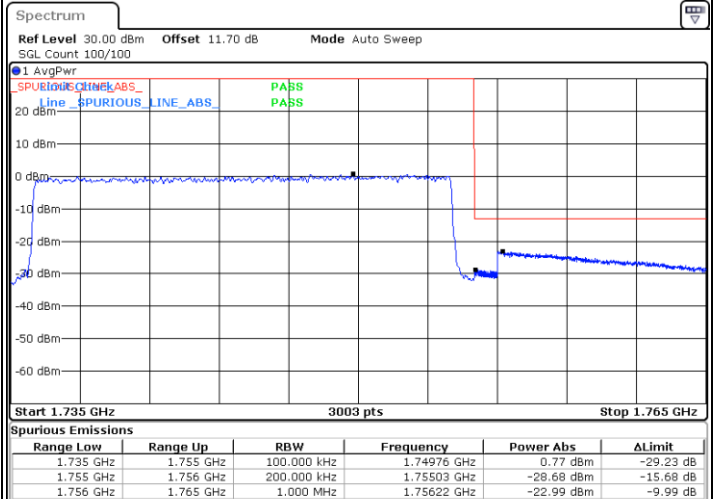
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



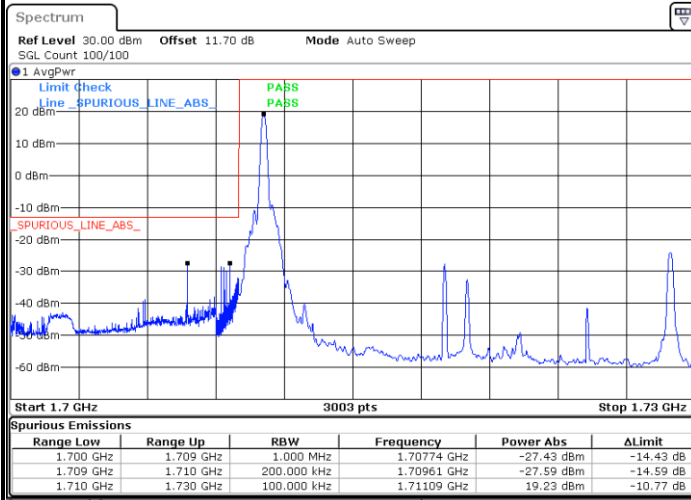
Highest Band Edge / Full RB



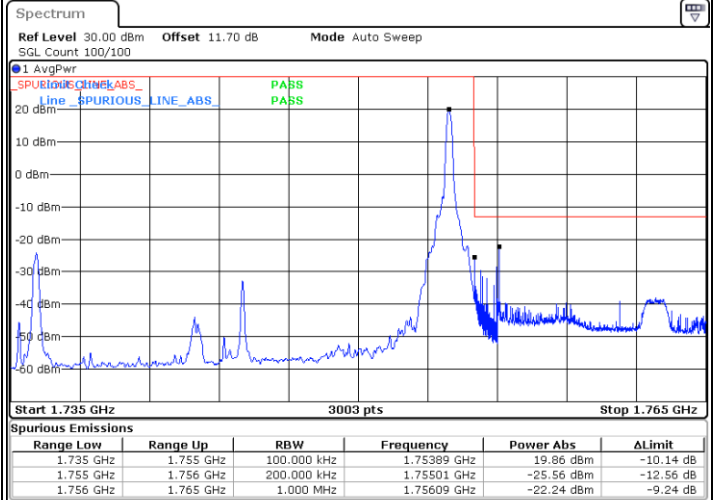


LTE Band 4 / 20MHz / 16QAM

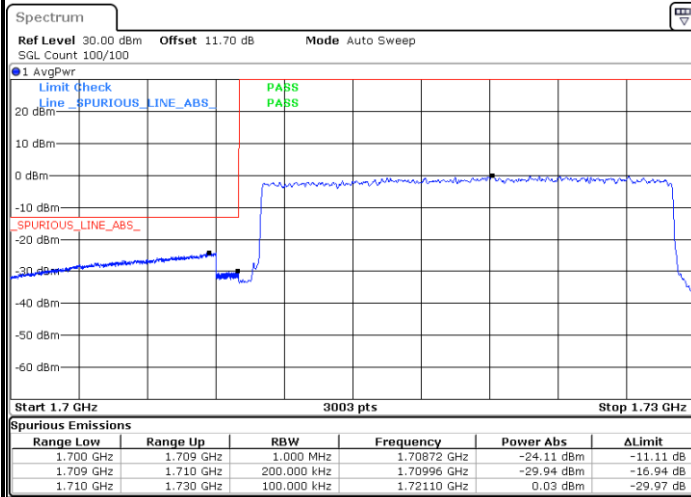
Lowest Band Edge / 1 RB



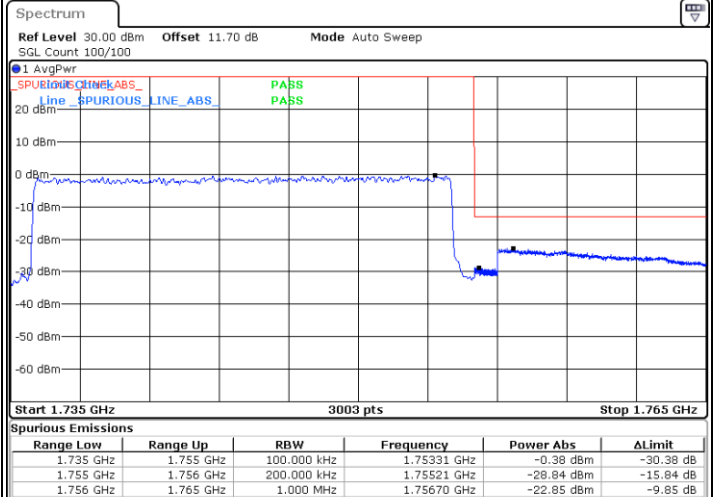
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



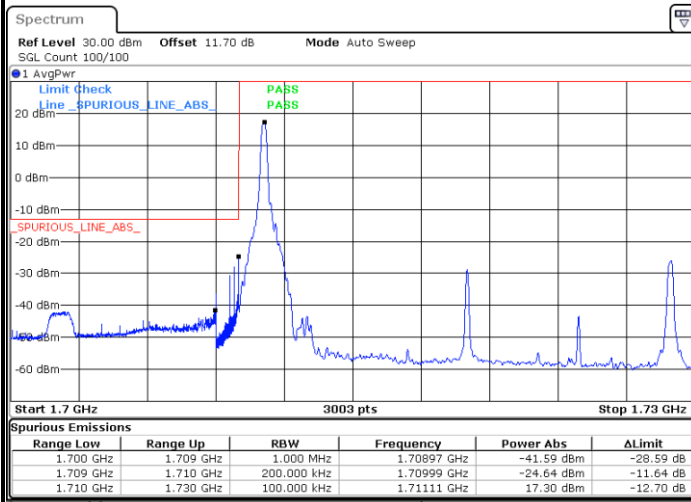
Highest Band Edge / Full RB



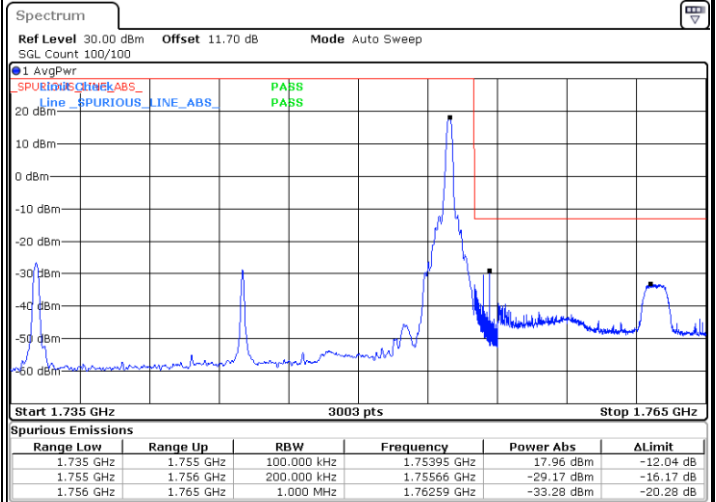


LTE Band 4 / 20MHz / 64QAM

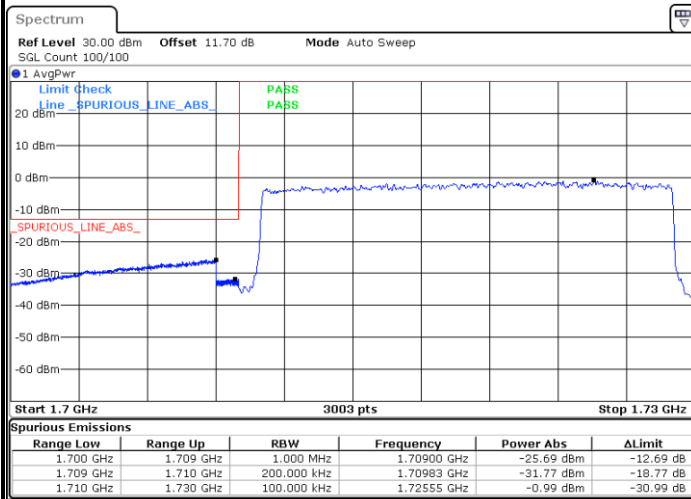
Lowest Band Edge / 1 RB



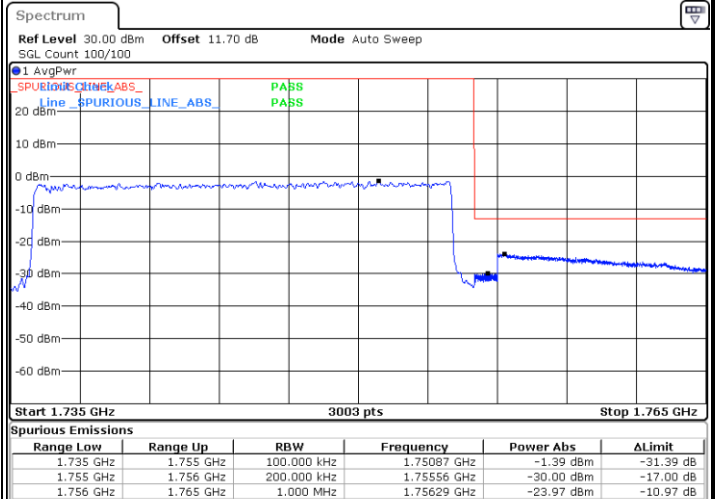
Highest Band Edge / 1 RB

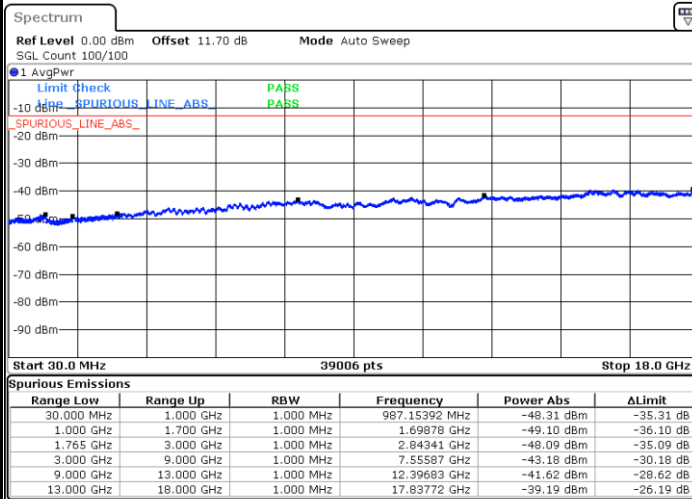


Lowest Band Edge / Full RB

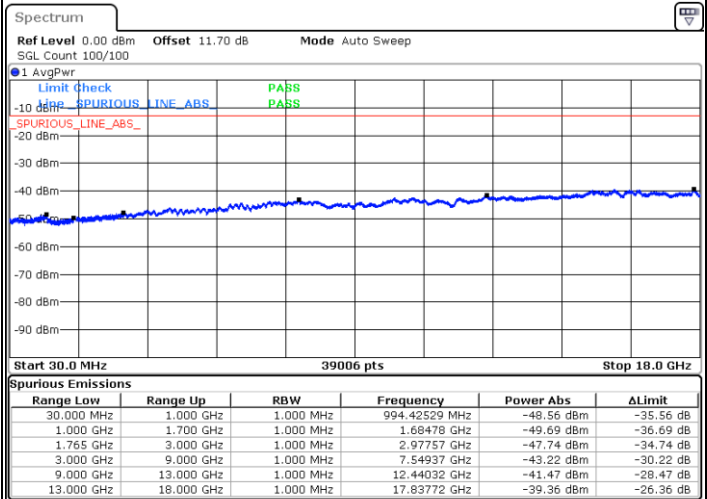


Highest Band Edge / Full RB

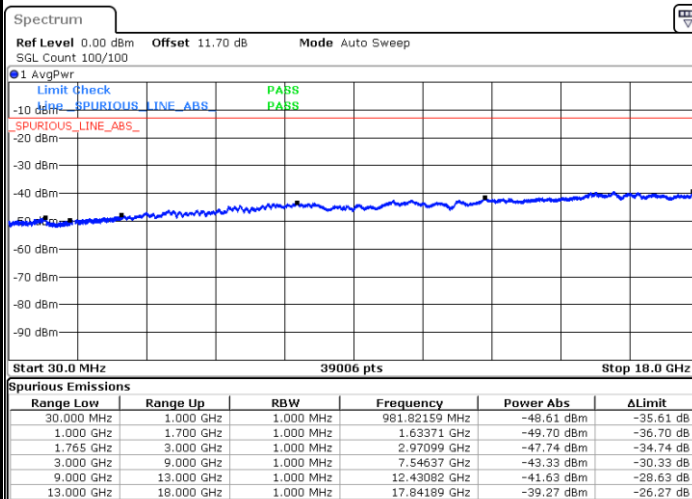


**Conducted Spurious Emission****LTE Band 4 / 1.4MHz****Lowest Channel / QPSK**

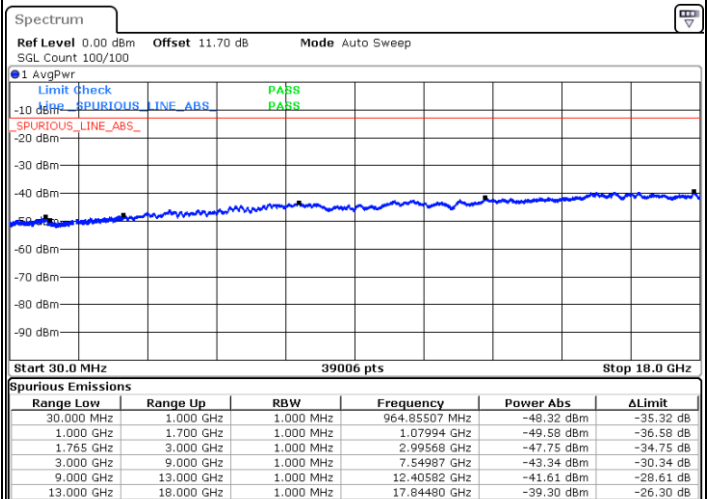
Date: 4 JAN 2020 02:45:21

Lowest Channel / 16QAM

Date: 4 JAN 2020 02:46:02

Middle Channel / QPSK

Date: 4 JAN 2020 02:47:30

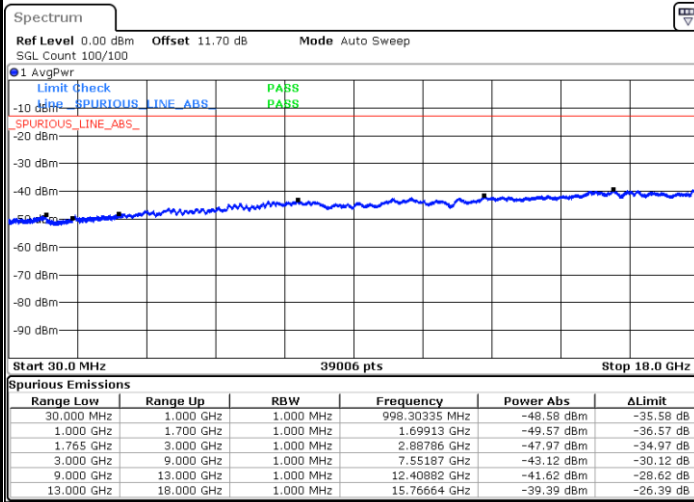
Middle Channel / 16QAM

Date: 4 JAN 2020 02:48:10



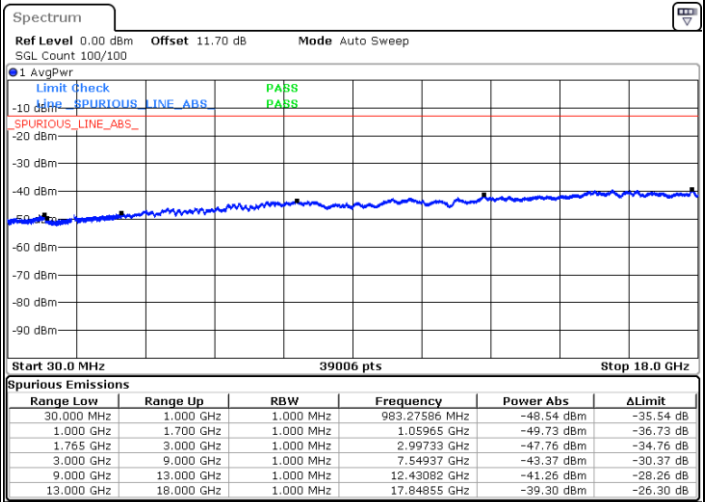
LTE Band 4 / 1.4MHz

Highest Channel / QPSK



Date: 4 JAN 2020 02:54:04

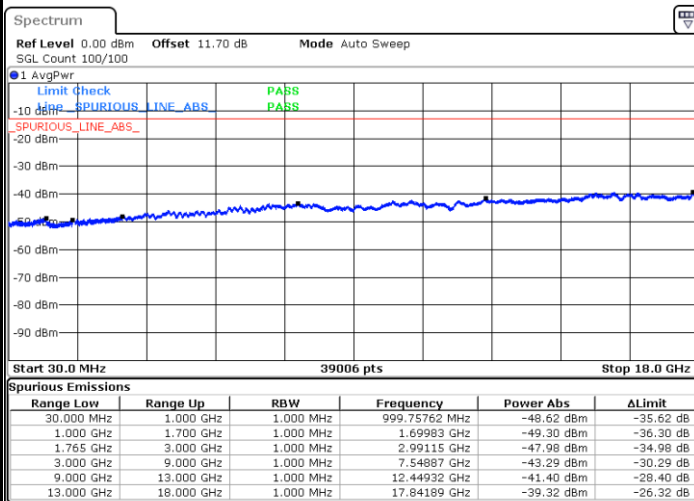
Highest Channel / 16QAM



Date: 4 JAN 2020 02:54:45

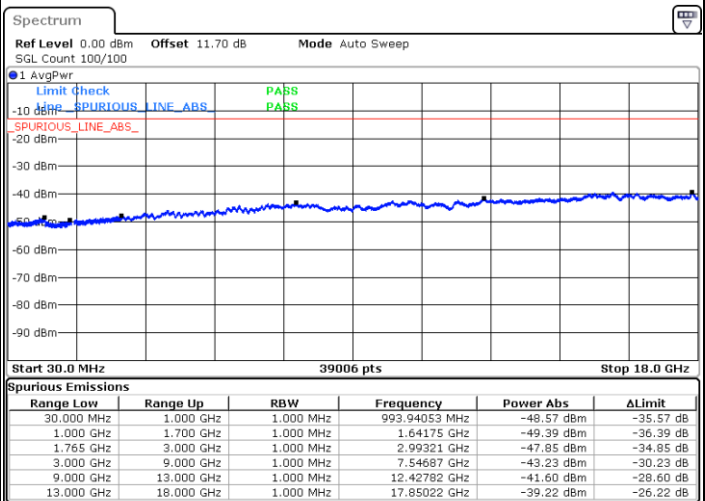
LTE Band 4 / 3MHz

Lowest Channel / QPSK



Date: 4 JAN 2020 00:59:34

Lowest Channel / 16QAM

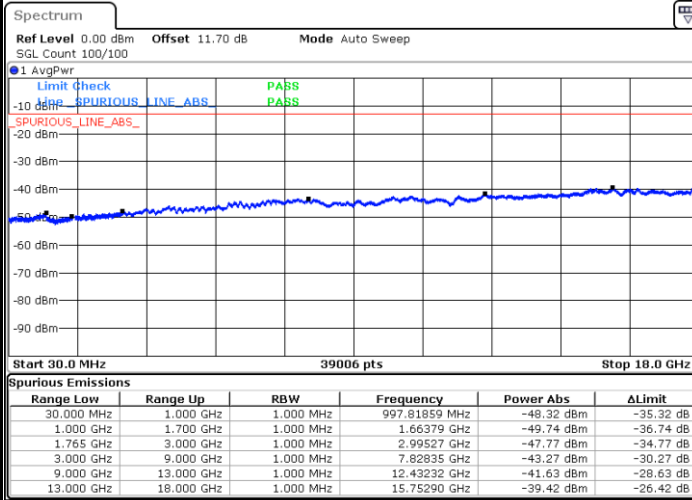


Date: 4 JAN 2020 01:00:15



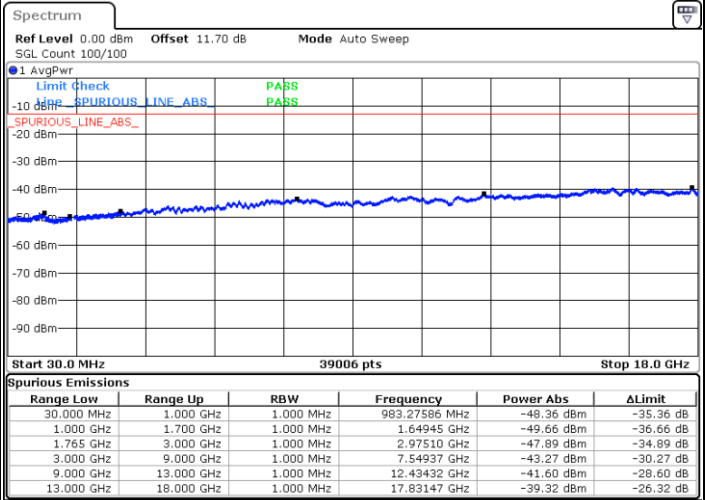
LTE Band 4 / 3MHz

Middle Channel / QPSK



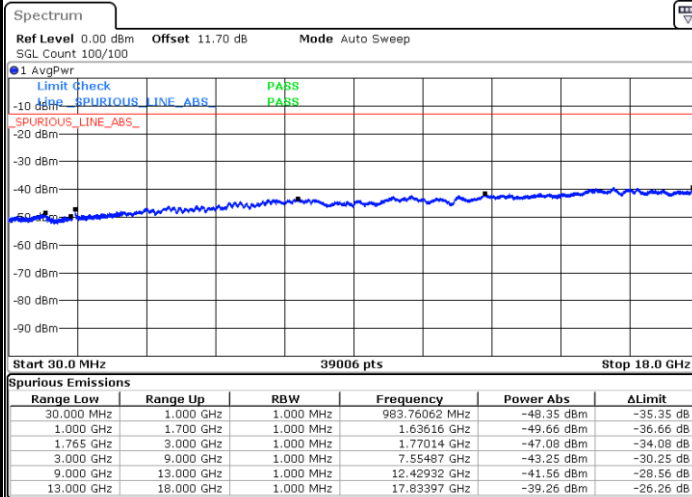
Date: 4 JAN 2020 01:01:42

Middle Channel / 16QAM



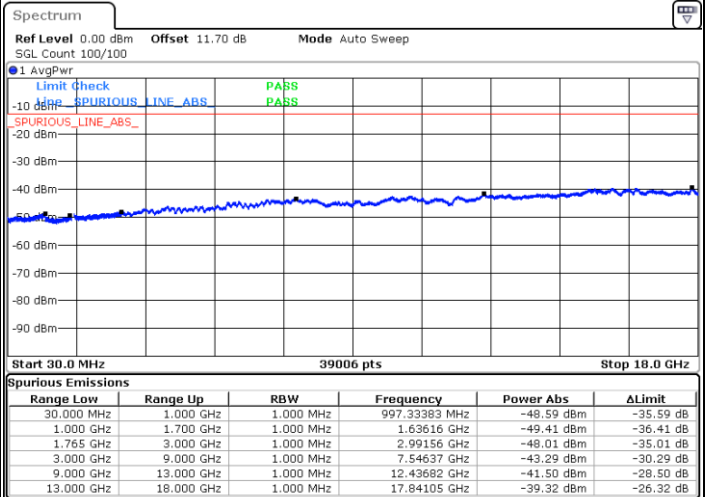
Date: 4 JAN 2020 01:02:23

Highest Channel / QPSK



Date: 4 JAN 2020 01:06:36

Highest Channel / 16QAM

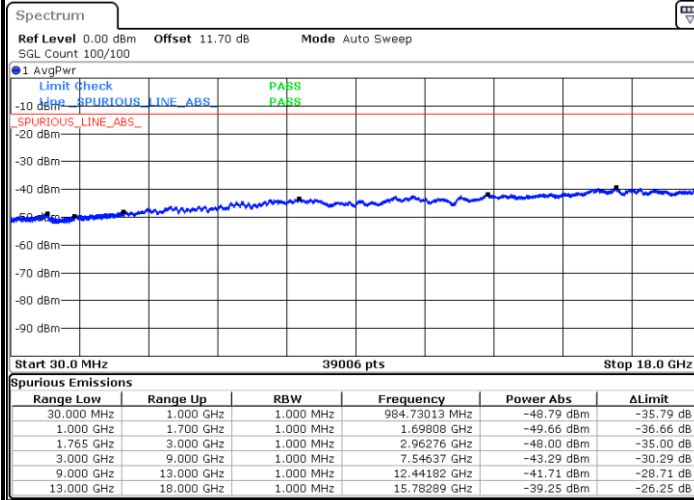


Date: 4 JAN 2020 01:07:17



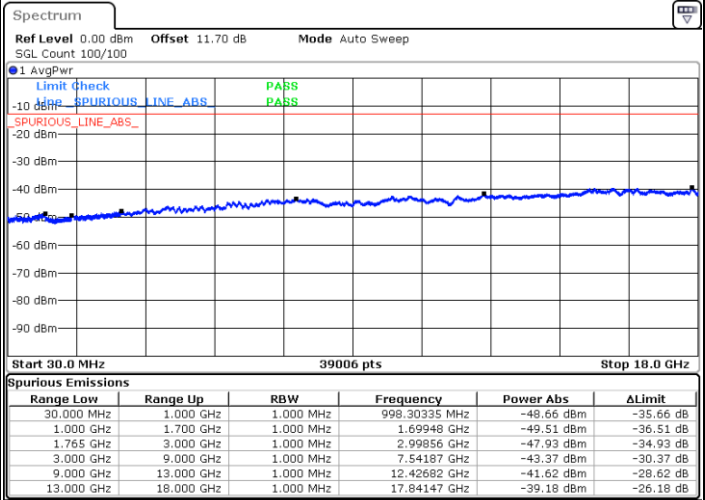
LTE Band 4 / 5MHz

Lowest Channel / QPSK



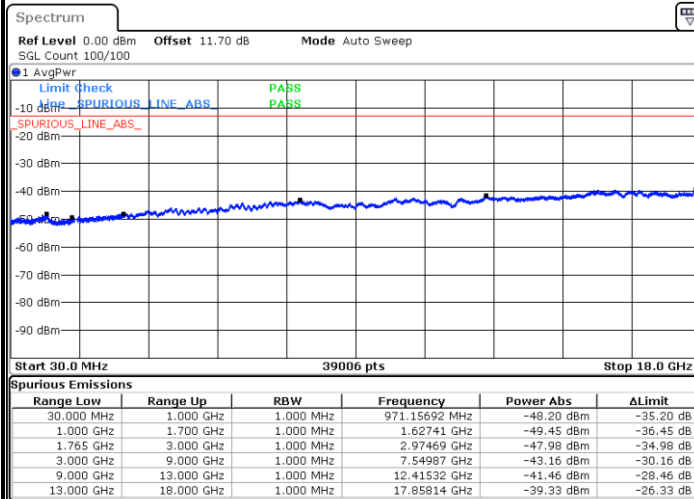
Date: 4 JAN 2020 01:11:31

Lowest Channel / 16QAM



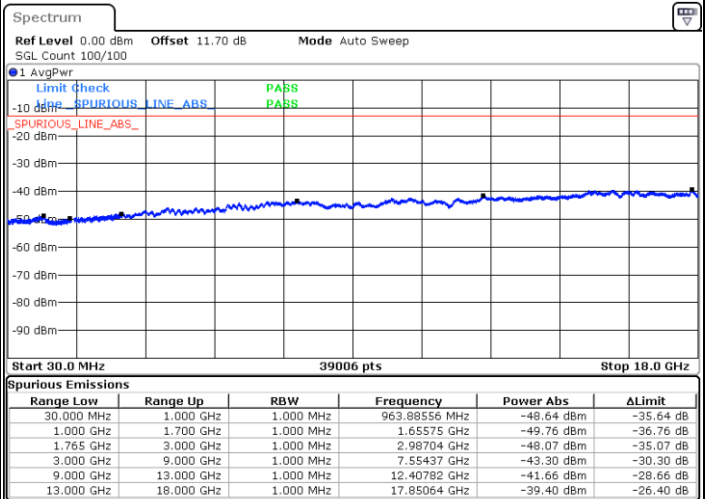
Date: 4 JAN 2020 01:12:12

Middle Channel / QPSK



Date: 4 JAN 2020 01:13:40

Middle Channel / 16QAM

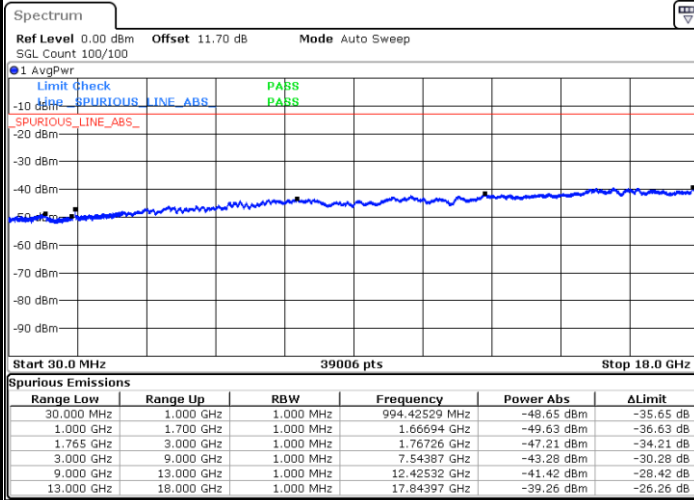


Date: 4 JAN 2020 01:14:20



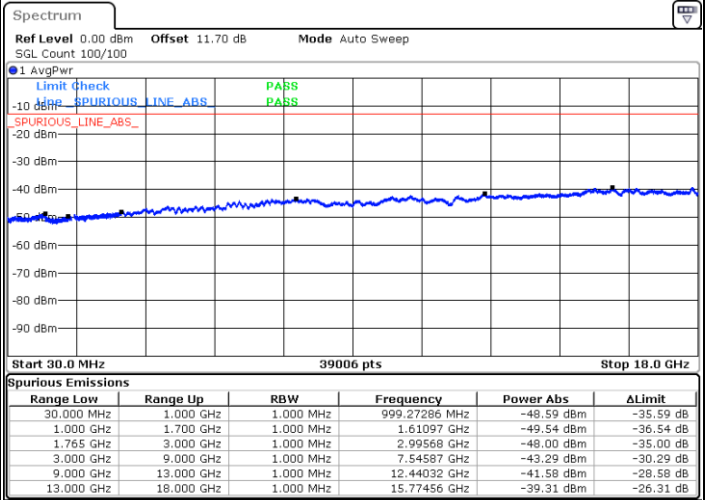
LTE Band 4 / 5MHz

Highest Channel / QPSK



Date: 4 JAN 2020 01:18:34

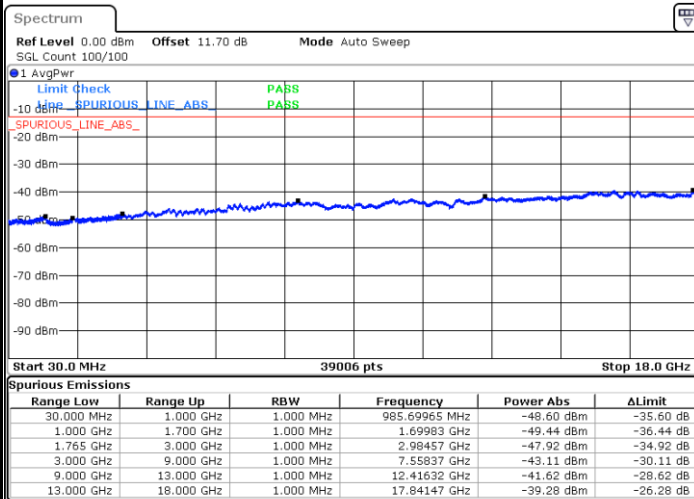
Highest Channel / 16QAM



Date: 4 JAN 2020 01:19:15

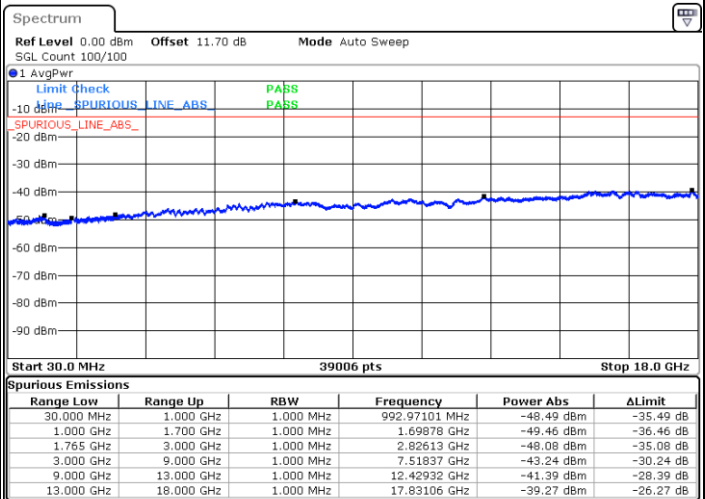
LTE Band 4 / 10MHz

Lowest Channel / QPSK



Date: 4 JAN 2020 01:23:29

Lowest Channel / 16QAM

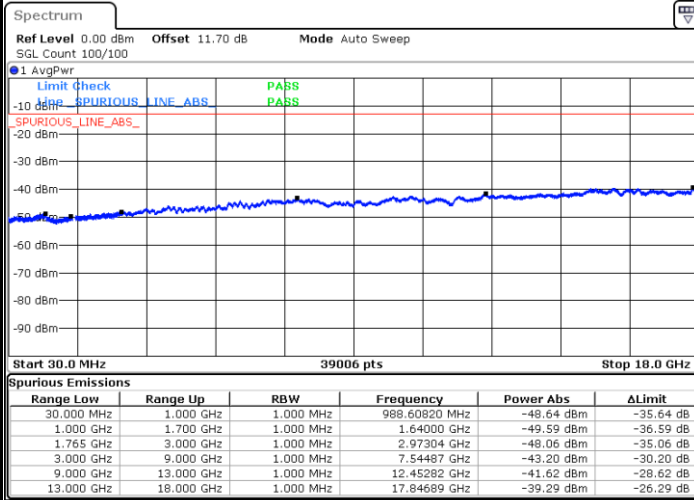


Date: 4 JAN 2020 01:24:11



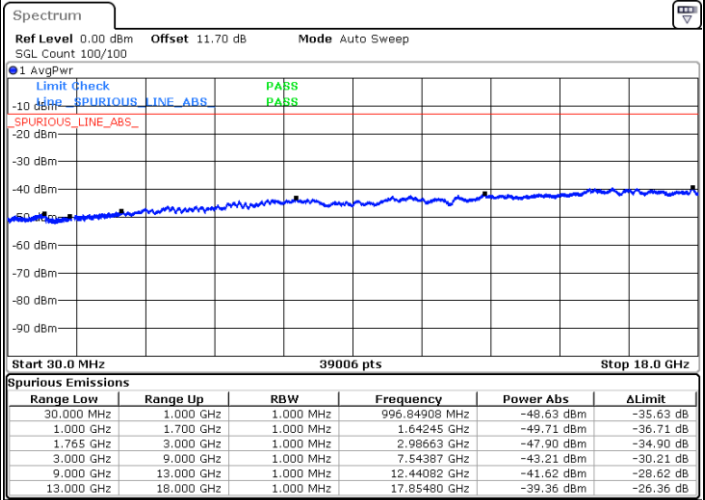
LTE Band 4 / 10MHz

Middle Channel / QPSK



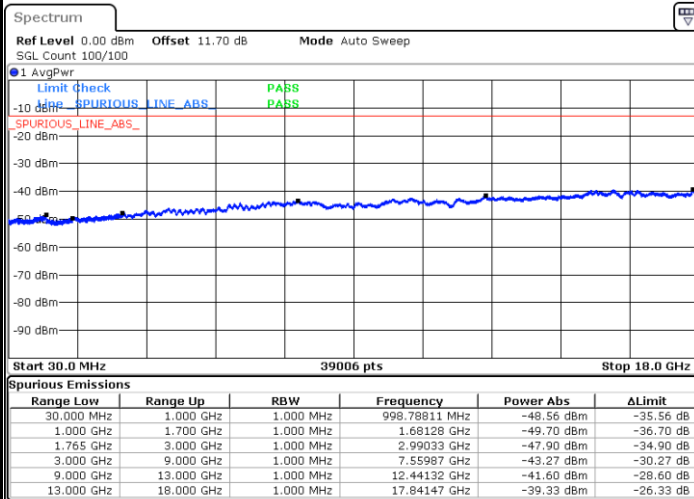
Date: 4 JAN 2020 01:25:37

Middle Channel / 16QAM



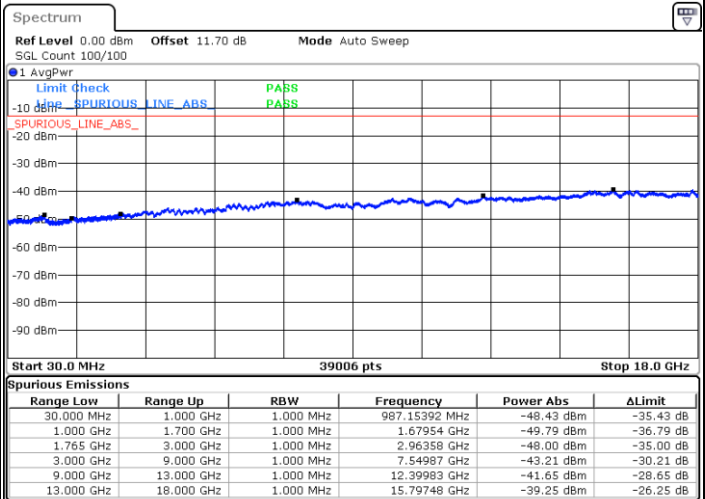
Date: 4 JAN 2020 01:30:00

Highest Channel / QPSK



Date: 4 JAN 2020 01:34:14

Highest Channel / 16QAM

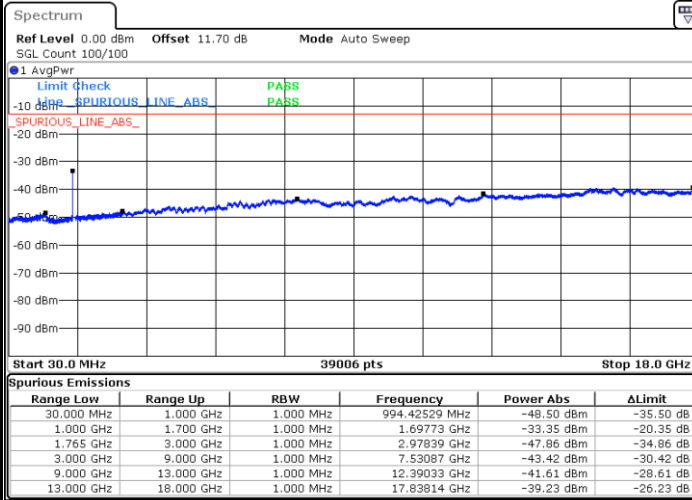


Date: 4 JAN 2020 01:34:55



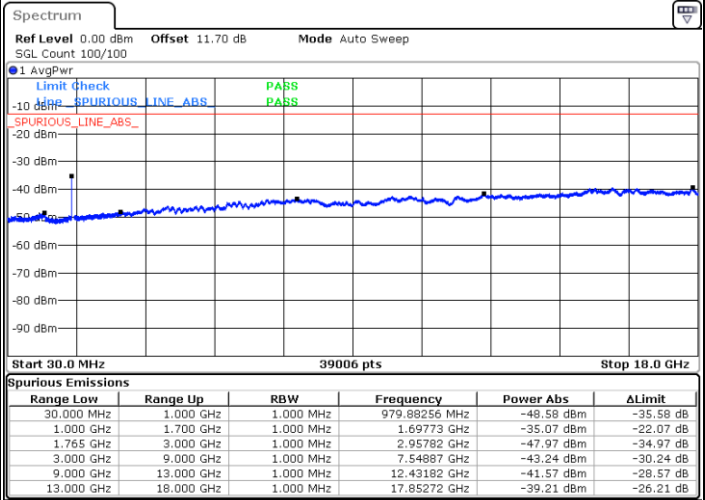
LTE Band 4 / 15MHz

Lowest Channel / QPSK



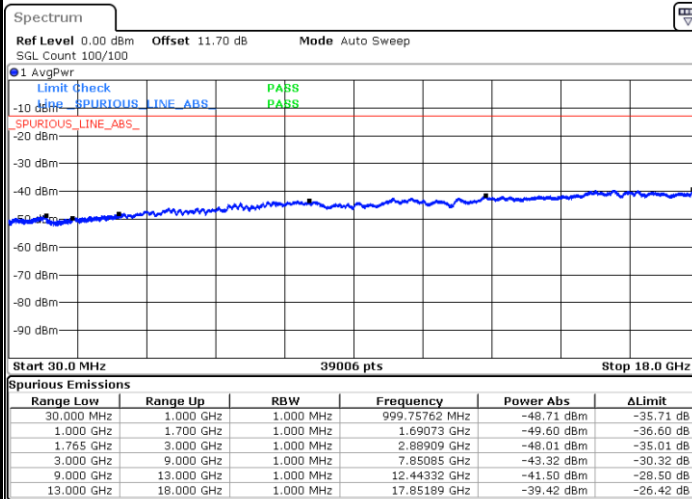
Date: 4 JAN 2020 01:39:09

Lowest Channel / 16QAM



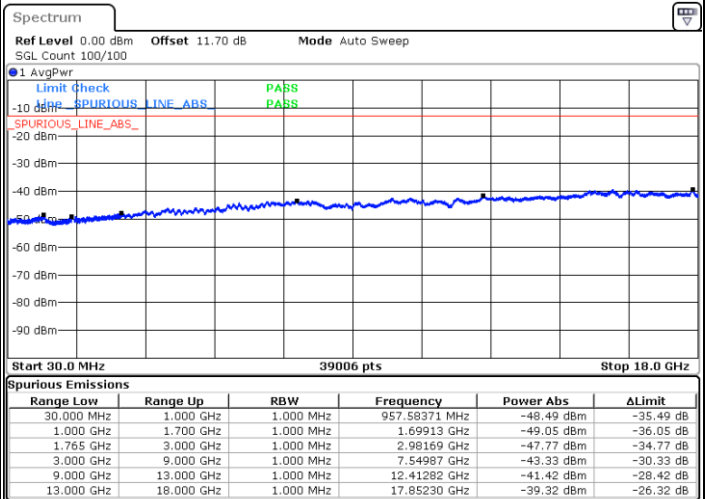
Date: 4 JAN 2020 01:39:50

Middle Channel / QPSK



Date: 4 JAN 2020 01:41:18

Middle Channel / 16QAM

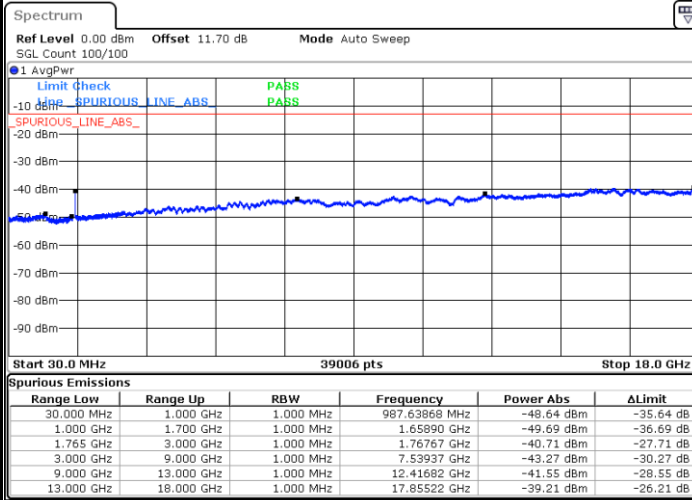


Date: 4 JAN 2020 01:41:58



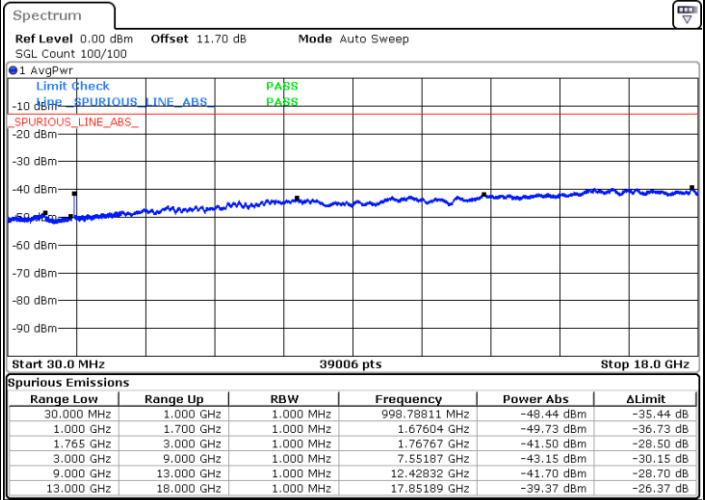
LTE Band 4 / 15MHz

Highest Channel / QPSK



Date: 4 JAN 2020 01:46:11

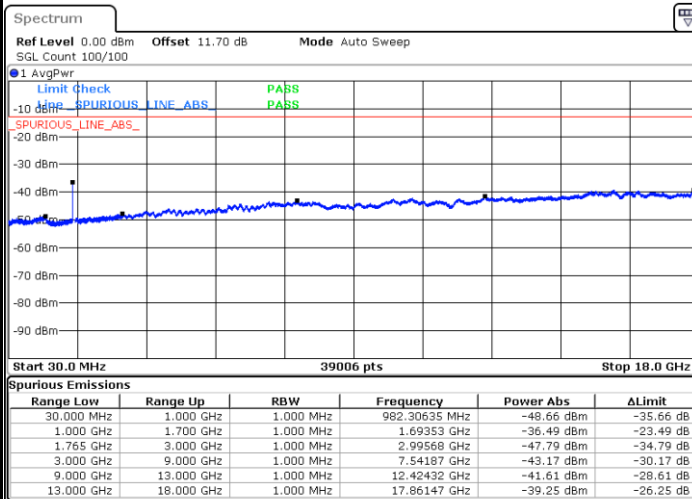
Highest Channel / 16QAM



Date: 4 JAN 2020 01:46:52

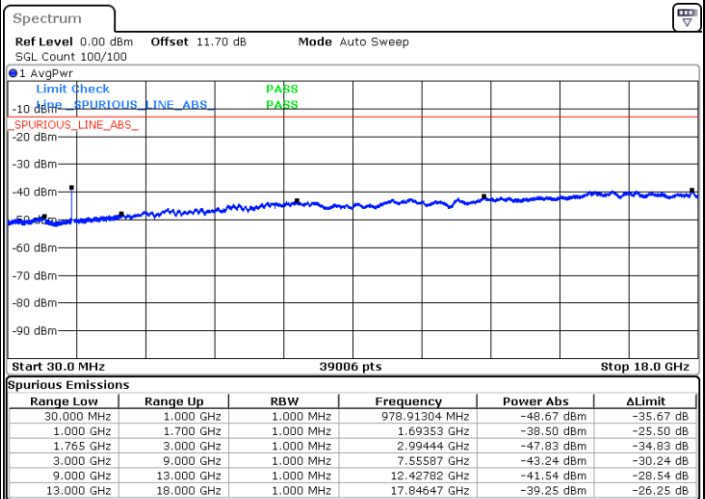
LTE Band 4 / 20MHz

Lowest Channel / QPSK



Date: 4 JAN 2020 01:51:06

Lowest Channel / 16QAM

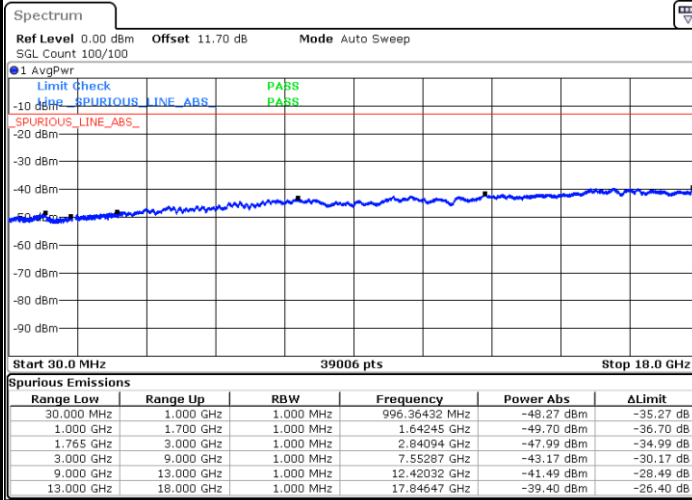


Date: 4 JAN 2020 01:51:47



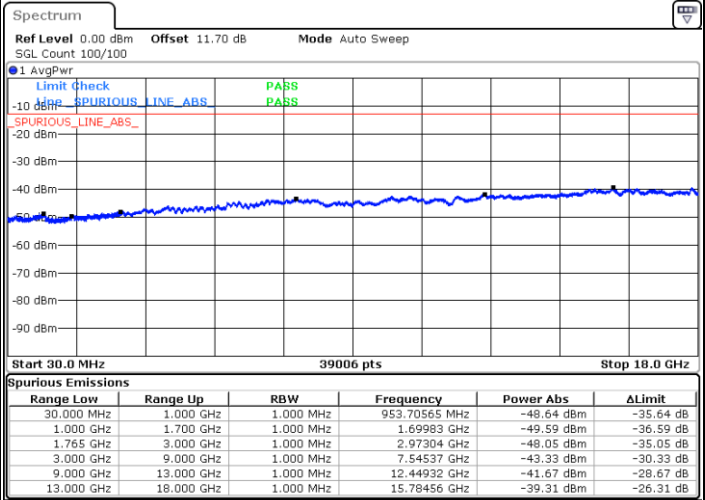
LTE Band 4 / 20MHz

Middle Channel / QPSK



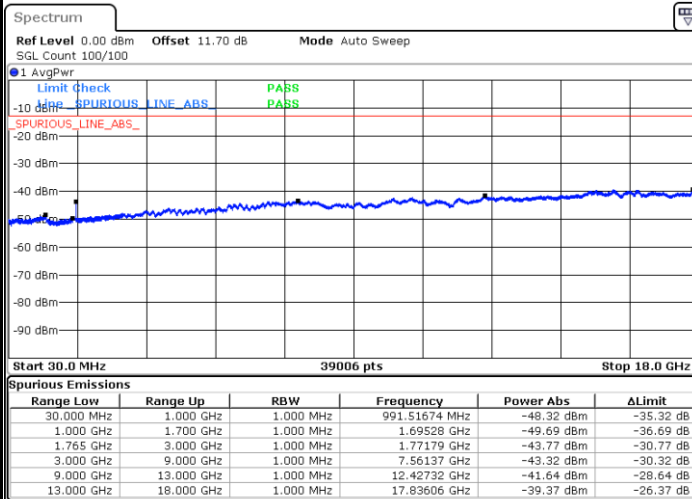
Date: 4 JAN 2020 01:53:14

Middle Channel / 16QAM



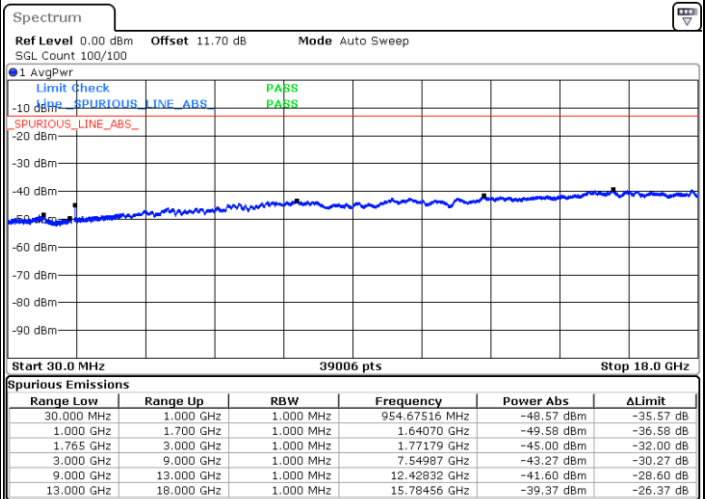
Date: 4 JAN 2020 01:53:55

Highest Channel / QPSK



Date: 4 JAN 2020 01:58:08

Highest Channel / 16QAM

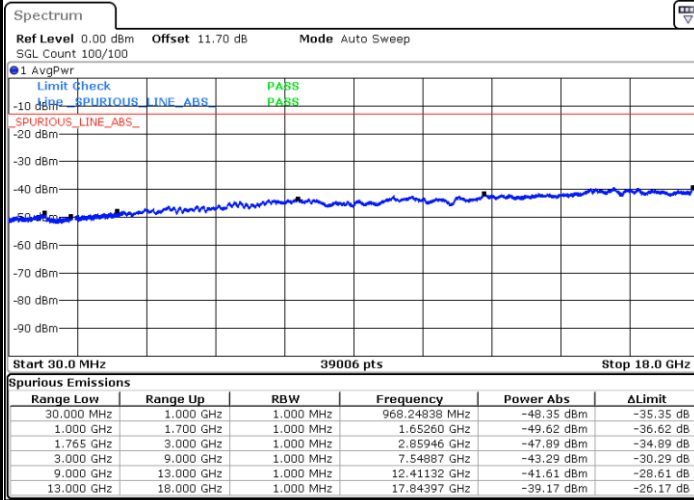


Date: 4 JAN 2020 01:58:49



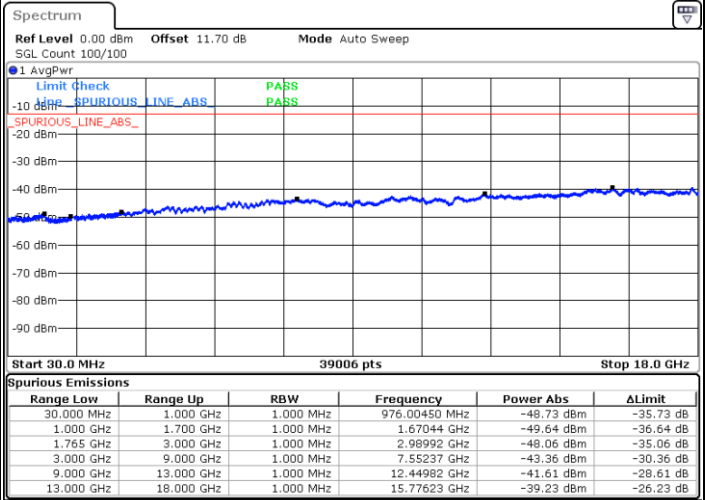
LTE Band 4 / 1.4MHz

Lowest Channel / 64QAM



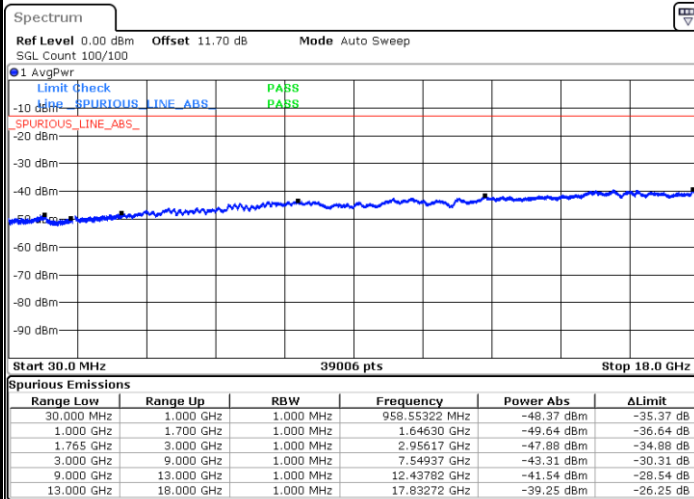
Date: 4 JAN 2020 02:35:06

Middle Channel / 64QAM



Date: 4 JAN 2020 02:36:10

Highest Channel / 64QAM

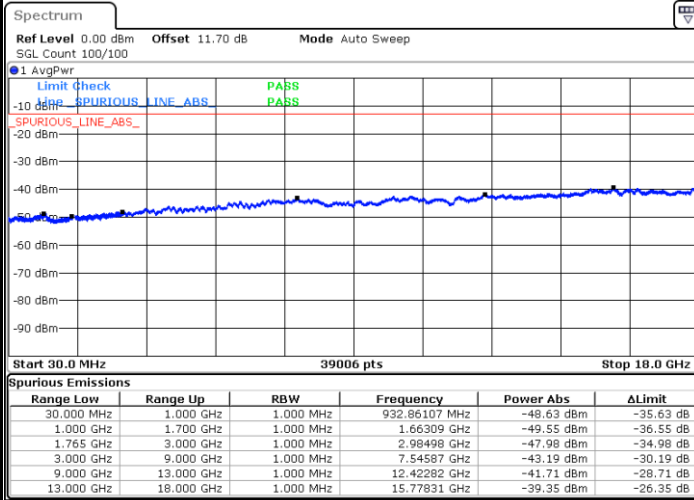


Date: 4 JAN 2020 02:39:27



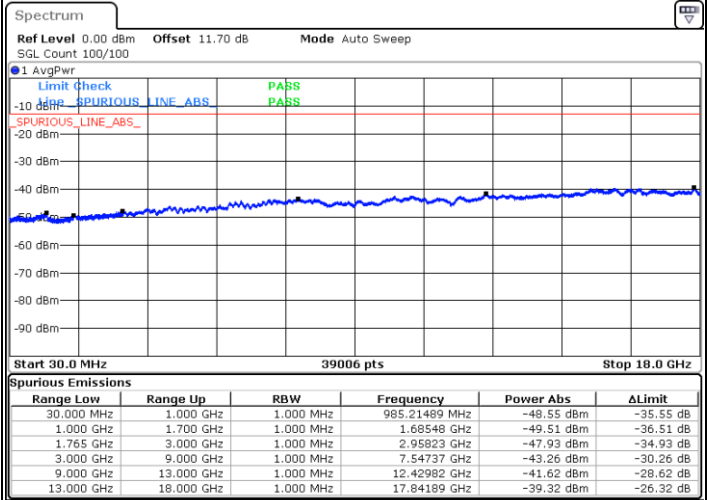
LTE Band 4 / 3MHz

Lowest Channel / 64QAM



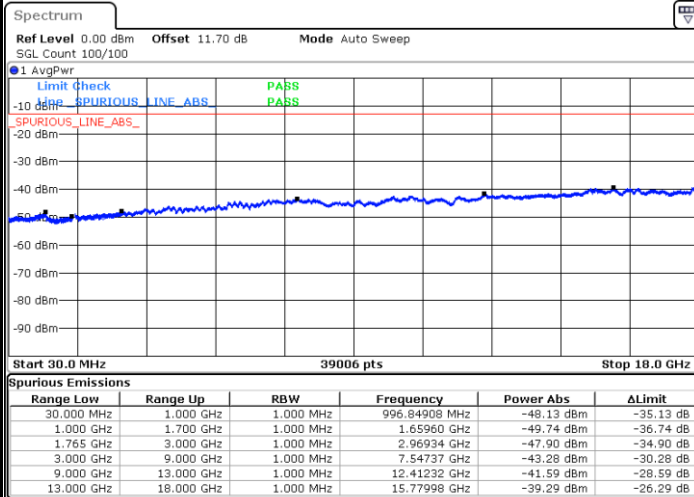
Date: 4 JAN 2020 02:01:16

Middle Channel / 64QAM



Date: 4 JAN 2020 02:02:21

Highest Channel / 64QAM

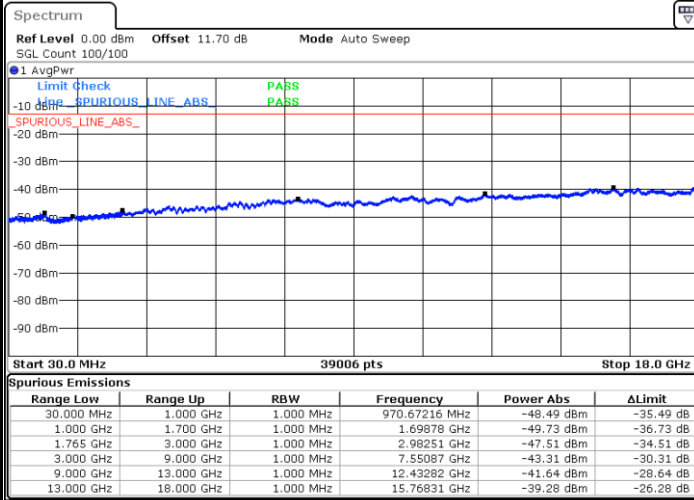


Date: 4 JAN 2020 02:04:48



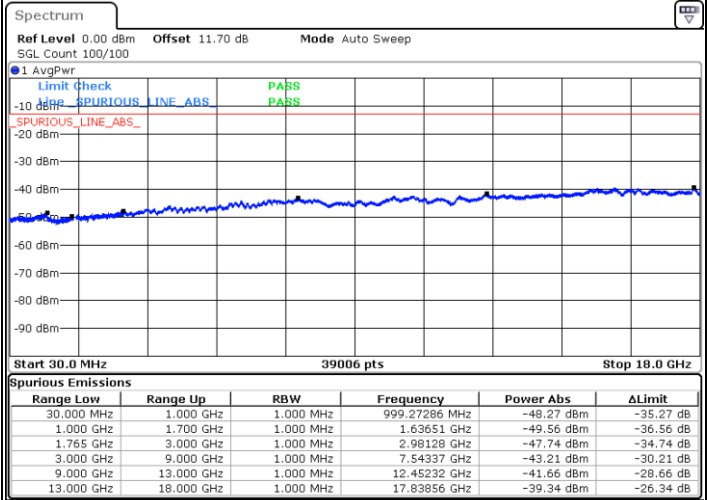
LTE Band 4 / 5MHz

Lowest Channel / 64QAM



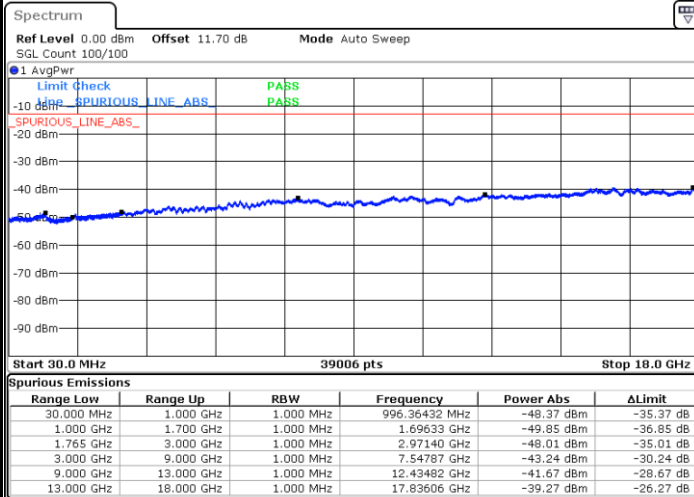
Date: 4 JAN 2020 02:07:15

Middle Channel / 64QAM



Date: 4 JAN 2020 02:08:19

Highest Channel / 64QAM

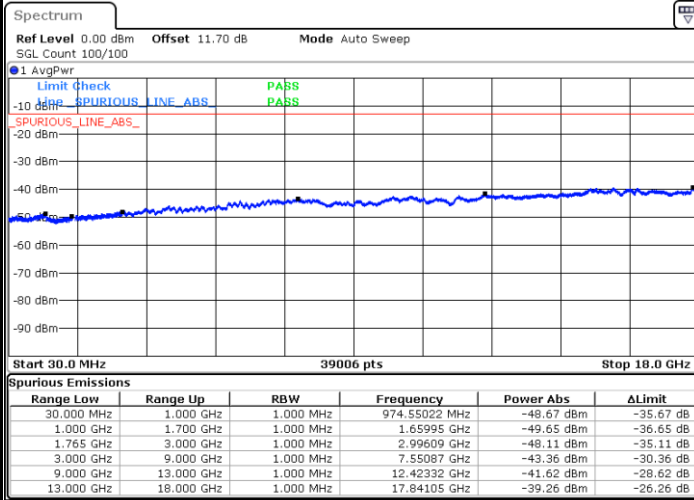


Date: 4 JAN 2020 02:10:46



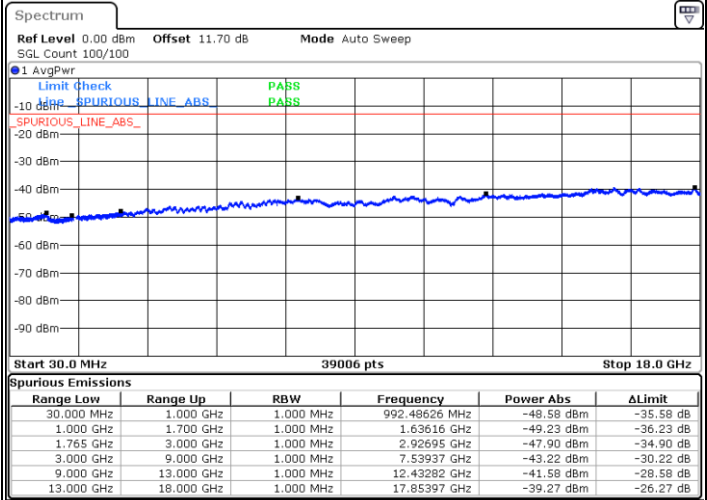
LTE Band 4 / 10MHz

Lowest Channel / 64QAM



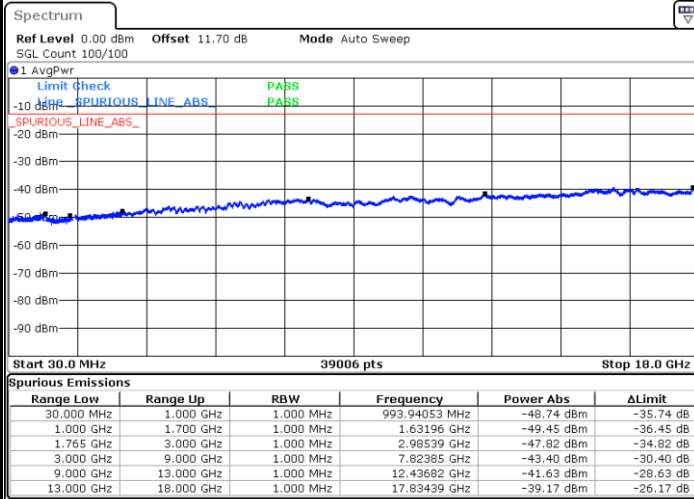
Date: 4 JAN 2020 02:13:13

Middle Channel / 64QAM



Date: 4 JAN 2020 02:14:17

Highest Channel / 64QAM

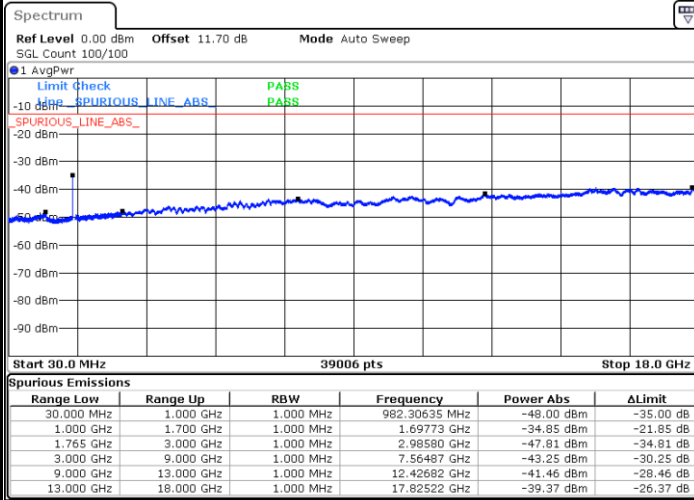


Date: 4 JAN 2020 02:16:45



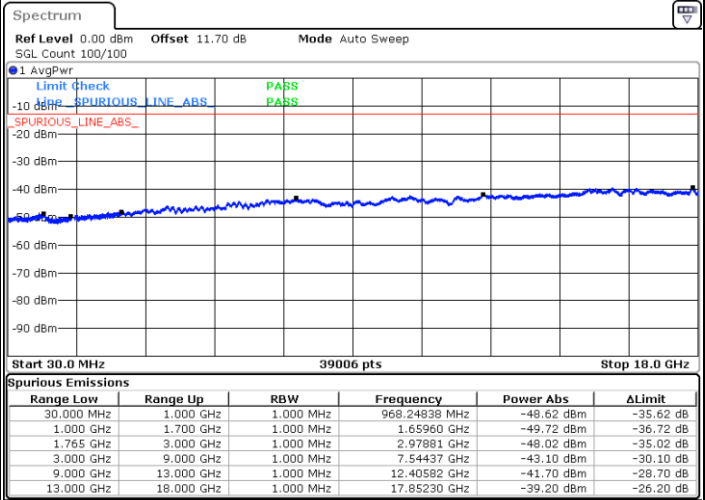
LTE Band 4 / 15MHz

Lowest Channel / 64QAM



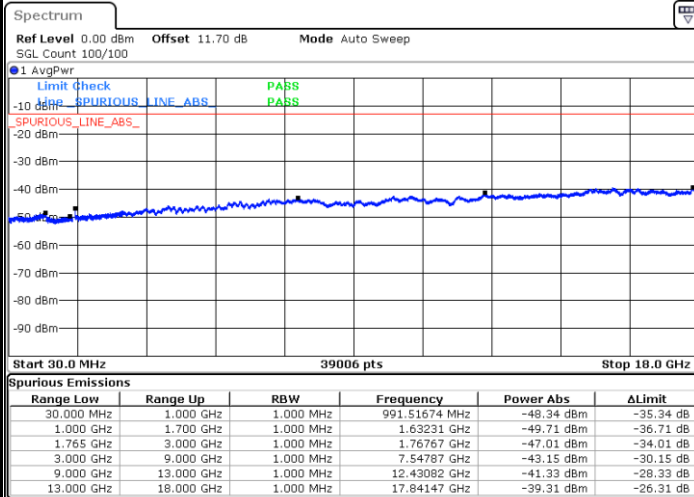
Date: 4 JAN 2020 02:19:12

Middle Channel / 64QAM



Date: 4 JAN 2020 02:20:16

Highest Channel / 64QAM

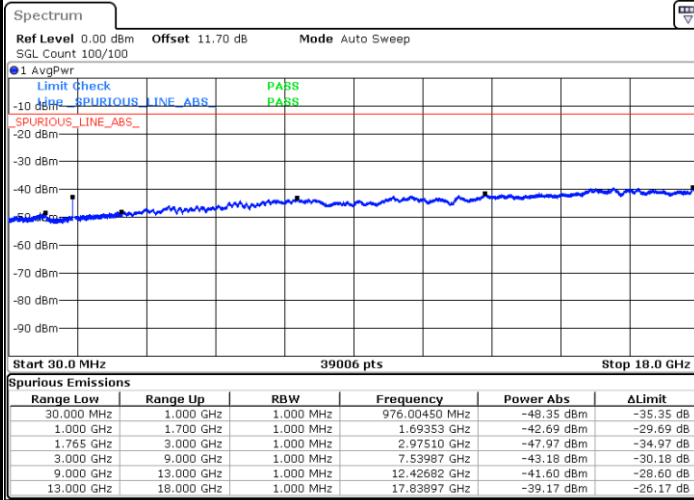


Date: 4 JAN 2020 02:22:42



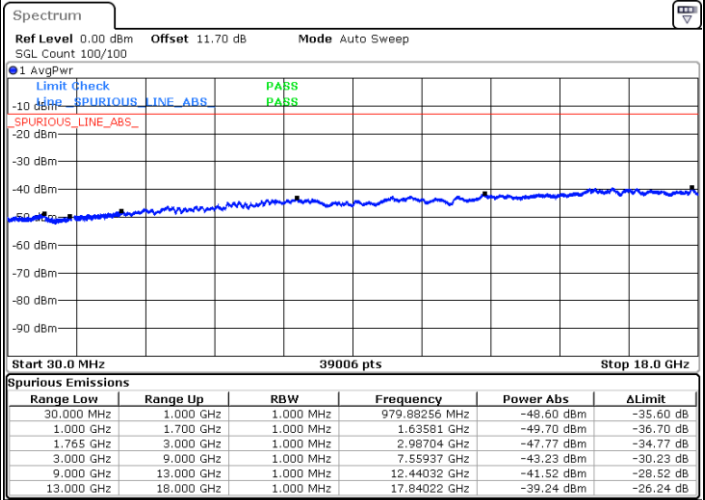
LTE Band 4 / 20MHz

Lowest Channel / 64QAM



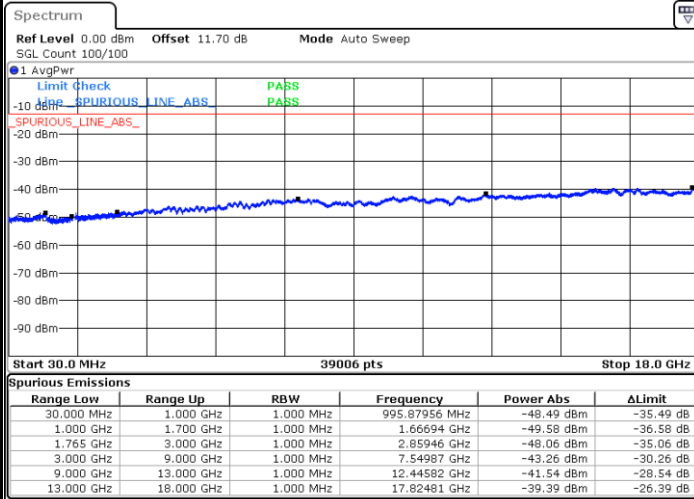
Date: 4 JAN 2020 02:25:10

Middle Channel / 64QAM



Date: 4 JAN 2020 02:26:14

Highest Channel / 64QAM



Date: 4 JAN 2020 02:28:41

Frequency Stability

Test Conditions		LTE Band 4 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0070	PASS
40	Normal Voltage	0.0012	
30	Normal Voltage	0.0050	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0094	
0	Normal Voltage	0.0005	
-10	Normal Voltage	0.0009	
-20	Normal Voltage	0.0076	
-30	Normal Voltage	0.0043	
20	Maximum Voltage	0.0060	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0080	

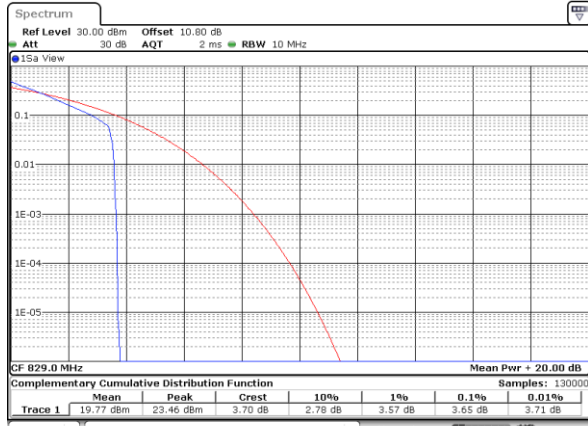
Note:

1. Normal Voltage =7.7 V. ; Battery End Point (BEP) =6.9 V. ; Maximum Voltage =8.5 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

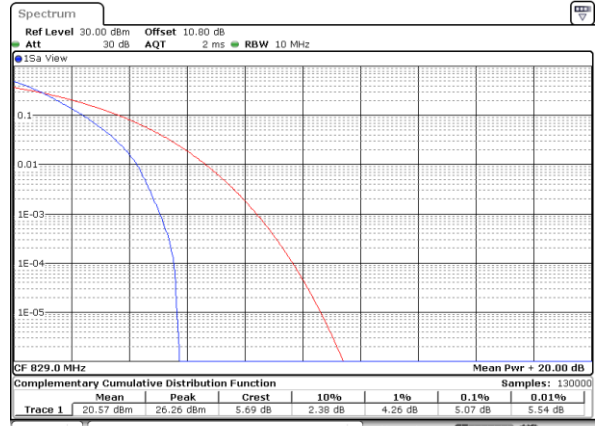
LTE Band 5

Peak-to-Average Ratio

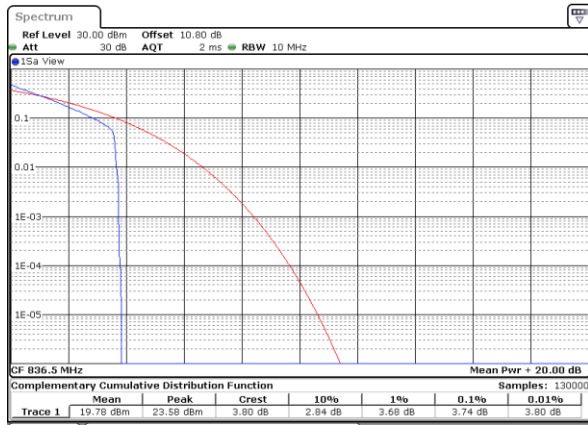
Mode	LTE Band 5 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.65	5.07	5.16	5.88	PASS
Middle CH	3.74	5.04	5.51	5.91	
Highest CH	3.65	4.78	5.22	5.74	
Mode	LTE Band 5 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.41	6.41	-	-	PASS
Middle CH	6.87	6.49	-	-	
Highest CH	6.14	6.52	-	-	

LTE Band 5 / 10MHz / QPSK
Lowest Channel / 1RB


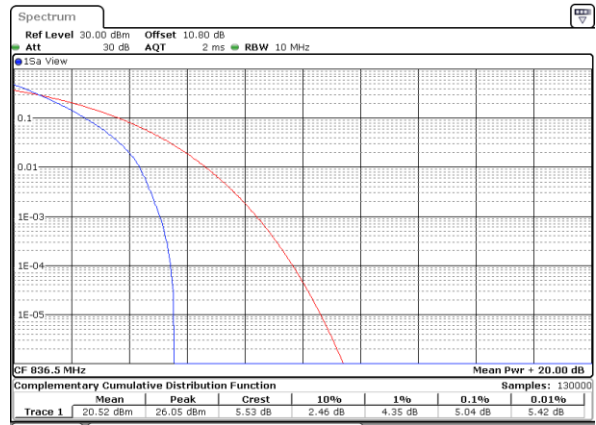
Date: 4 JAN 2020 05:23:54

Lowest Channel / Full RB


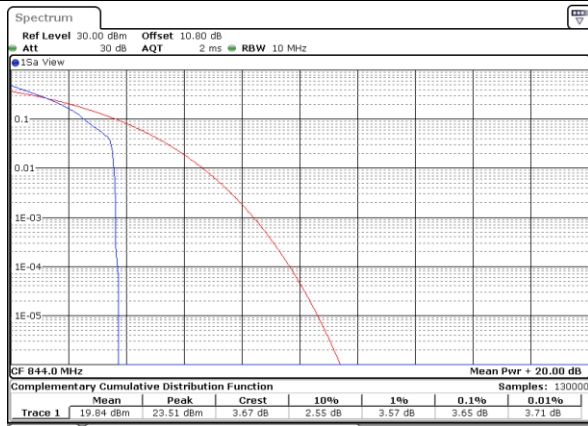
Date: 4 JAN 2020 05:24:22

Middle Channel / 1RB


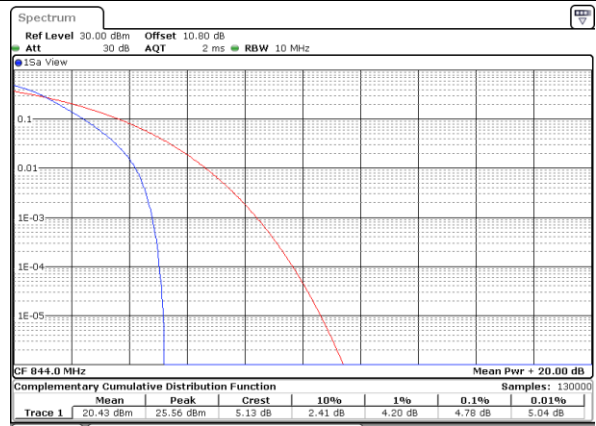
Date: 4 JAN 2020 05:24:35

Middle Channel / Full RB


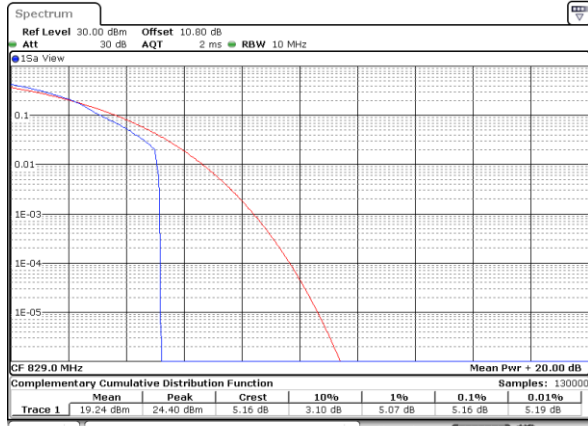
Date: 4 JAN 2020 05:24:46

Highest Channel / 1RB


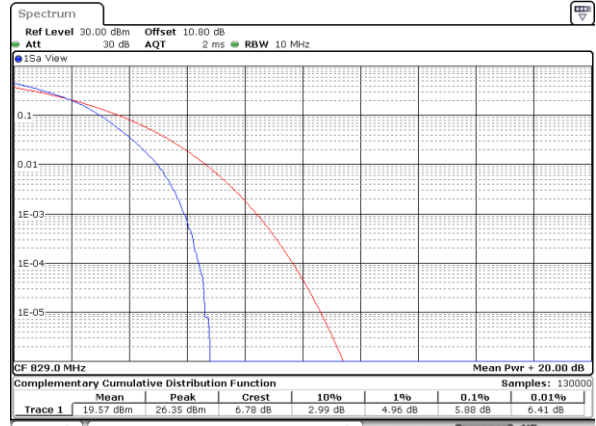
Date: 4 JAN 2020 05:24:57

Highest Channel / Full RB


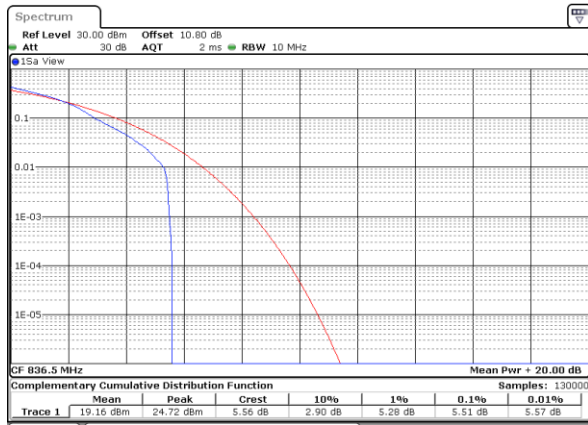
Date: 4 JAN 2020 05:25:20

LTE Band 5 / 10MHz / 16QAM
Lowest Channel / 1RB


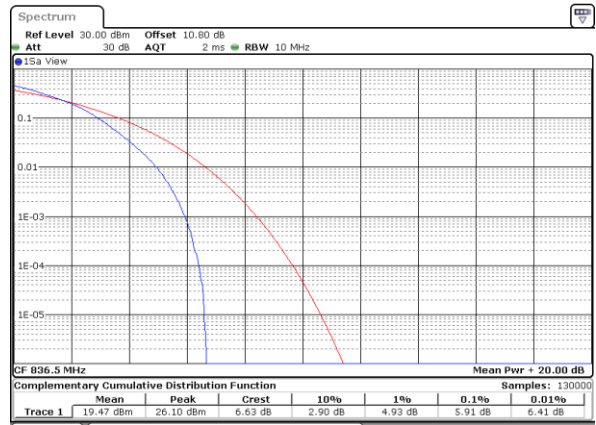
Date: 4 JAN 2020 05:22:07

Lowest Channel / Full RB


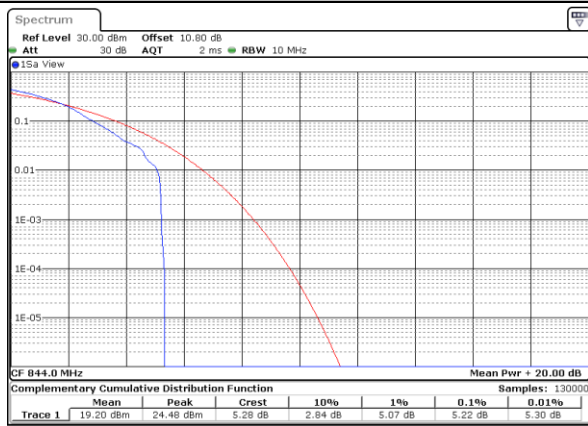
Date: 4 JAN 2020 05:22:18

Middle Channel / 1RB


Date: 4 JAN 2020 05:22:29

Middle Channel / Full RB


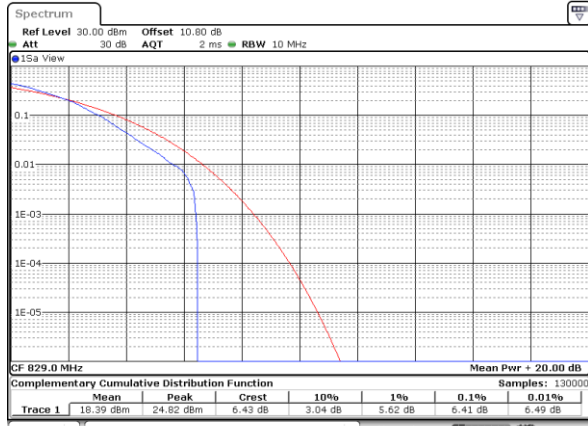
Date: 4 JAN 2020 05:22:39

Highest Channel / 1RB


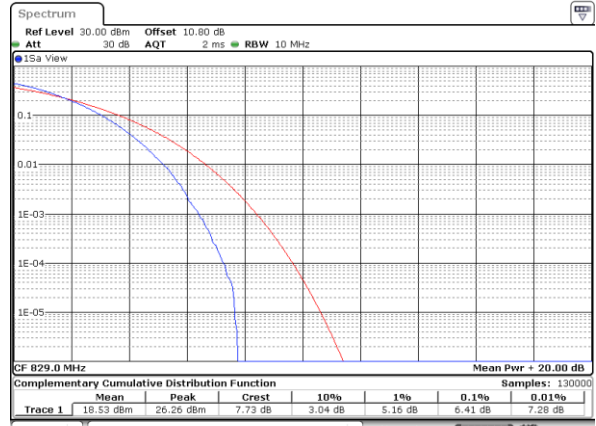
Date: 4 JAN 2020 05:22:51

Highest Channel / Full RB

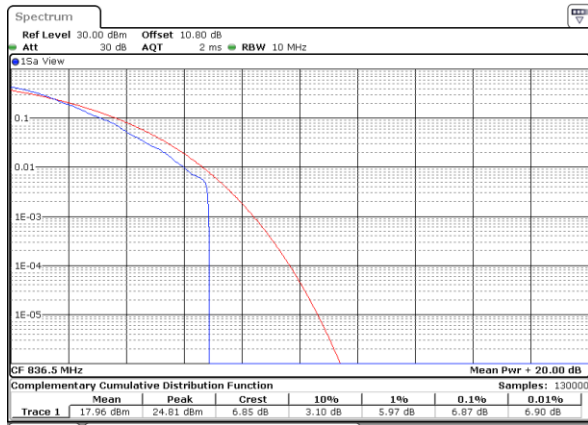

Date: 4 JAN 2020 05:23:37

LTE Band 5 / 10MHz / 64QAM
Lowest Channel / 1RB


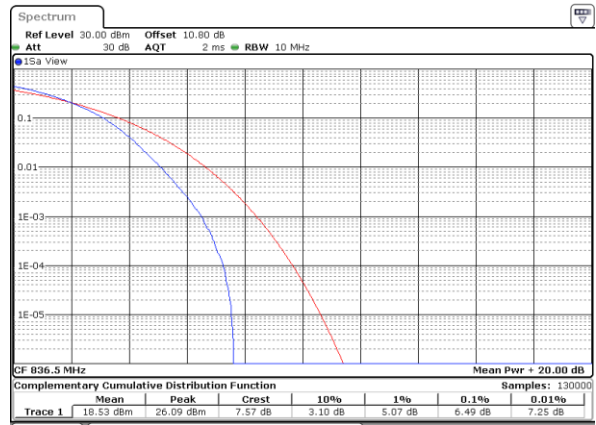
Date: 4 JAN 2020 05:25:34

Lowest Channel / Full RB


Date: 4 JAN 2020 05:25:51

Middle Channel / 1RB


Date: 4 JAN 2020 05:26:03

Middle Channel / Full RB


Date: 4 JAN 2020 05:26:29

Highest Channel / 1RB


Date: 4 JAN 2020 05:26:43

Highest Channel / Full RB


Date: 4 JAN 2020 05:26:56

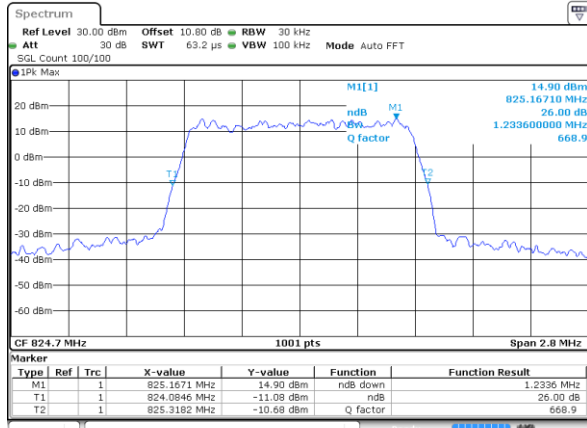
**26dB Bandwidth**

Mode	LTE Band 5 : 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	1.23	1.23	3.03	2.99	4.99	4.92	9.63	9.75	-	-	-	-
Middle CH	1.24	1.23	3.04	2.97	4.91	4.85	9.75	9.71	-	-	-	-
Highest CH	1.23	1.22	3.03	2.96	4.88	4.89	9.65	9.83	-	-	-	-
Mode	LTE Band 5 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.21	-	3.05	-	4.96	-	9.75	-	-	-	-	-
Middle CH	1.23	-	3.01	-	4.88	-	9.65	-	-	-	-	-
Highest CH	1.21	-	2.96	-	4.85	-	9.83	-	-	-	-	-



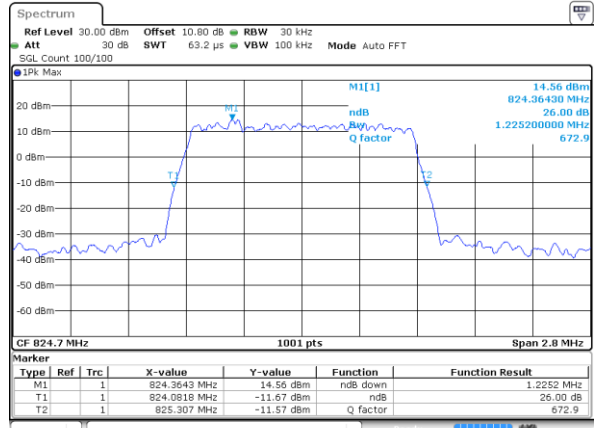
LTE Band 5

Lowest Channel / 1.4MHz / QPSK



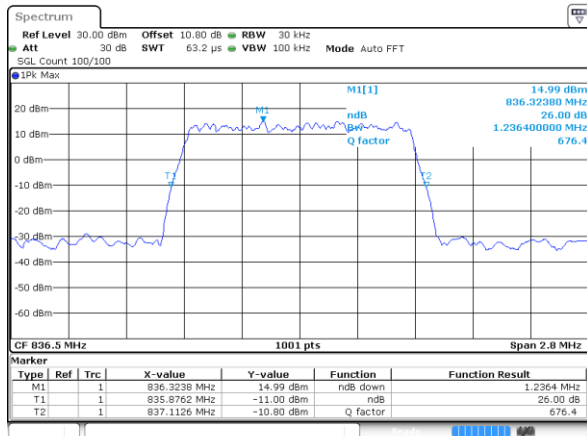
Date: 4 JAN 2020 06:00:22

Lowest Channel / 1.4MHz / 16QAM



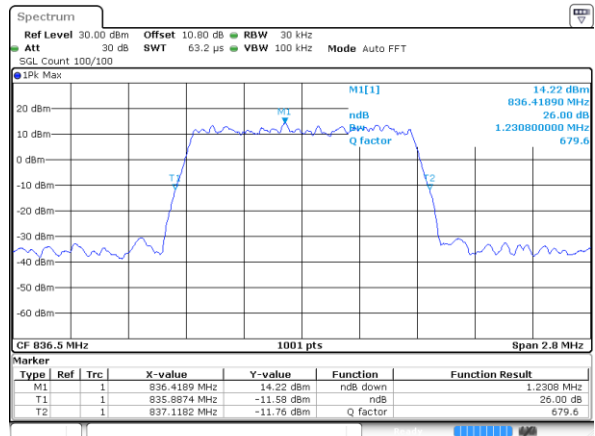
Date: 4 JAN 2020 06:00:10

Middle Channel / 1.4MHz / QPSK



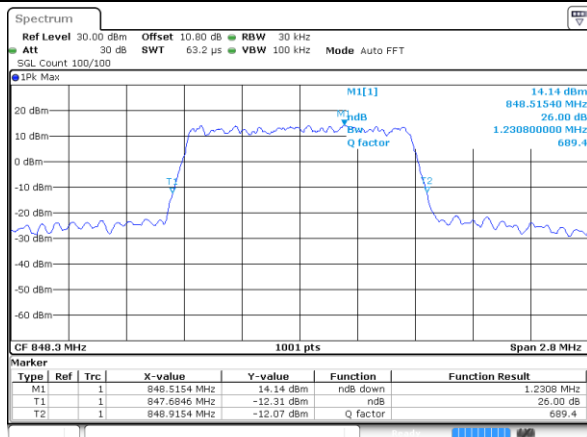
Date: 4 JAN 2020 06:05:42

Middle Channel / 1.4MHz / 16QAM



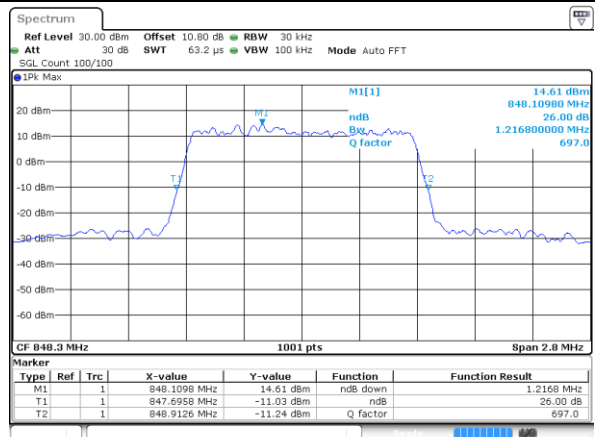
Date: 4 JAN 2020 06:05:54

Highest Channel / 1.4MHz / QPSK



Date: 4 JAN 2020 06:07:51

Highest Channel / 1.4MHz / 16QAM

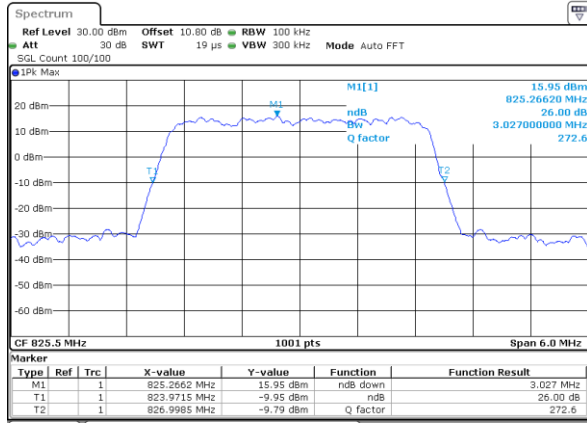


Date: 4 JAN 2020 06:08:04

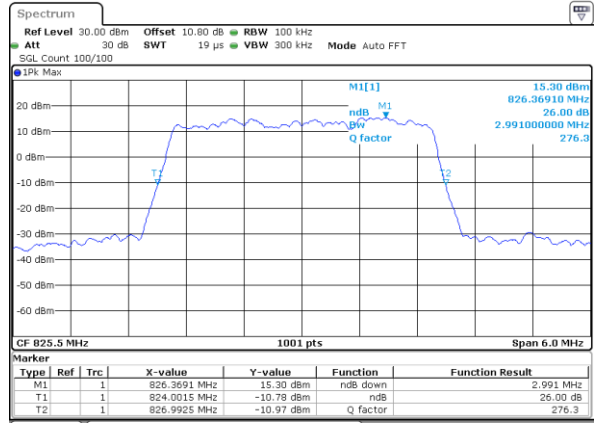


LTE Band 5

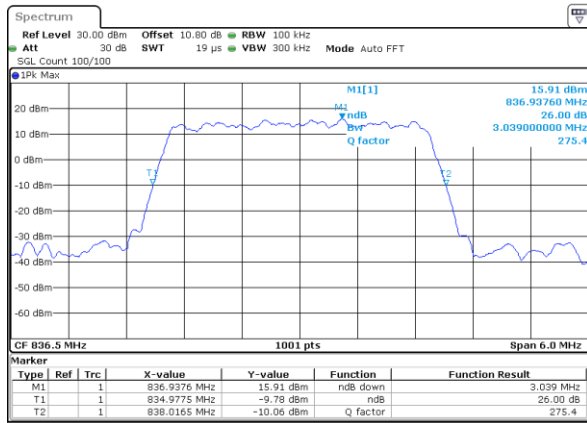
Lowest Channel / 3MHz / QPSK



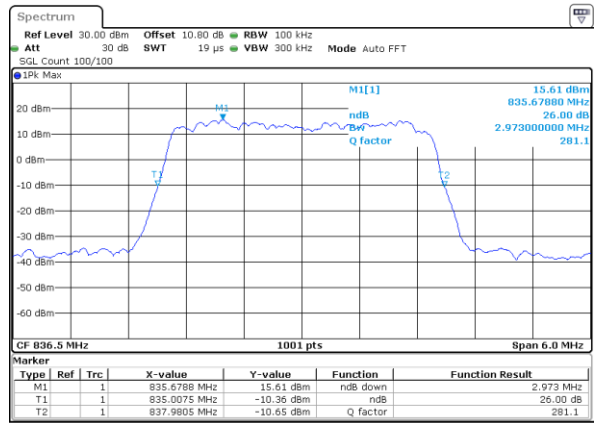
Lowest Channel / 3MHz / 16QAM



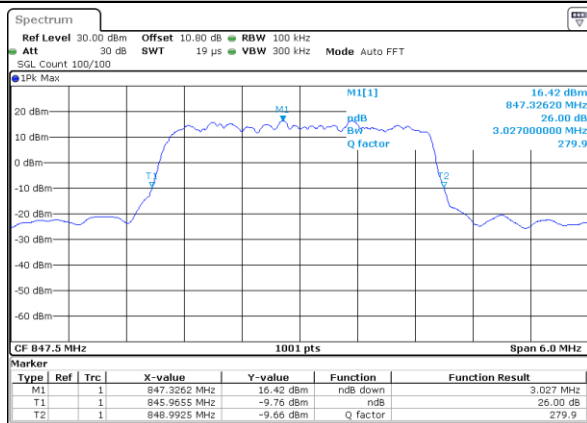
Middle Channel / 3MHz / QPSK



Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK



Highest Channel / 3MHz / 16QAM

