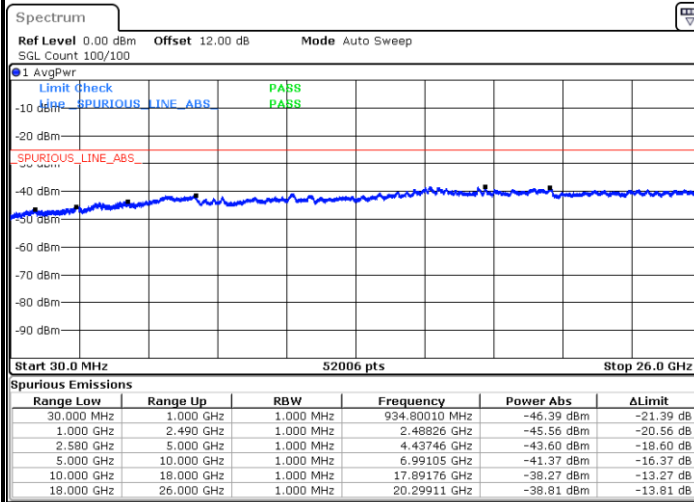




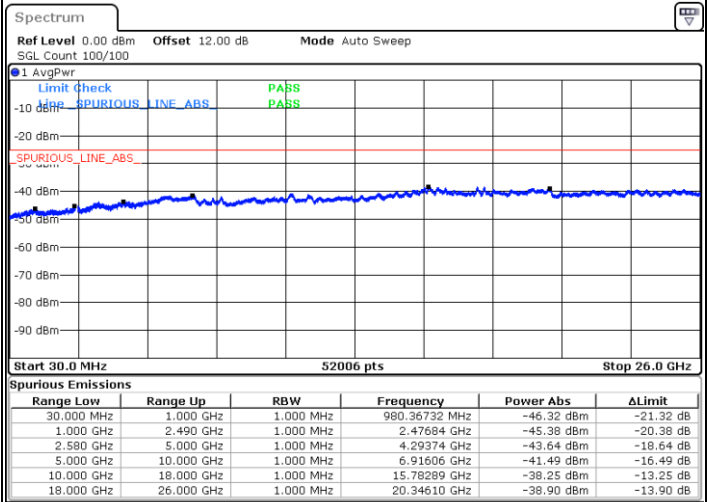
LTE Band 7 / 5MHz

Highest Channel / QPSK



Date: 24.SEP.2020 16:10:20

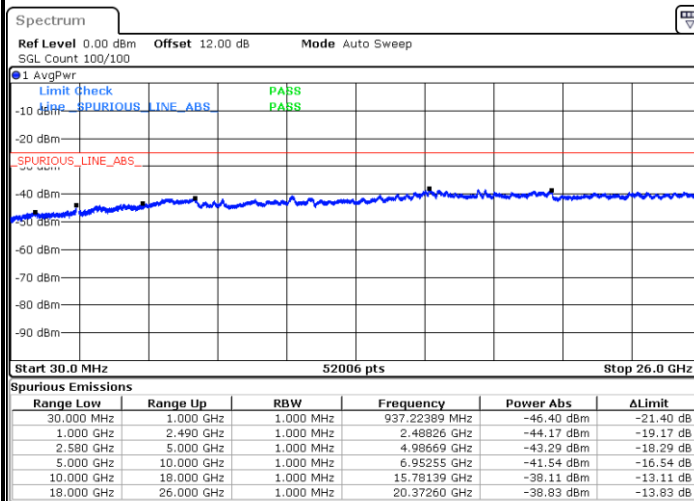
Highest Channel / 16QAM



Date: 24.SEP.2020 16:11:09

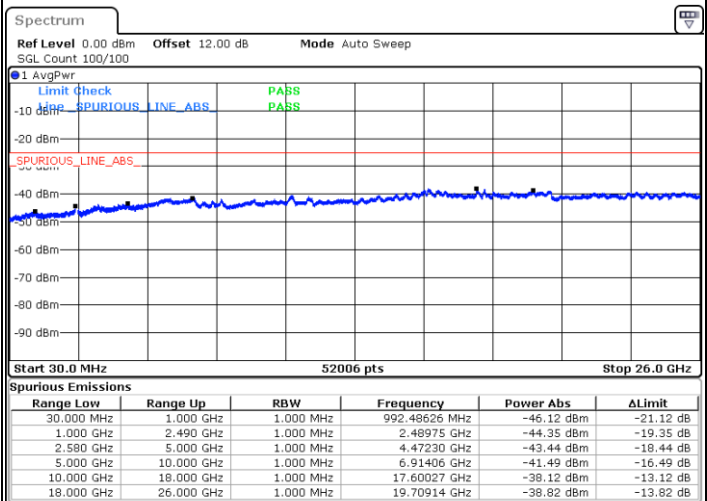
LTE Band 7 / 10MHz

Lowest Channel / QPSK



Date: 24.SEP.2020 16:18:50

Lowest Channel / 16QAM

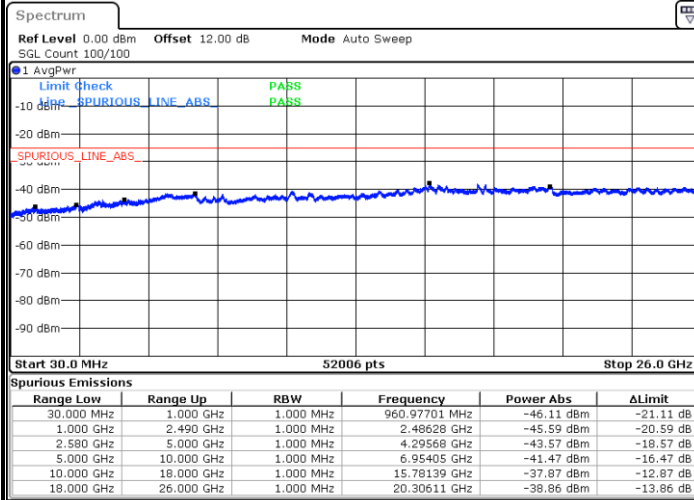


Date: 24.SEP.2020 16:19:39



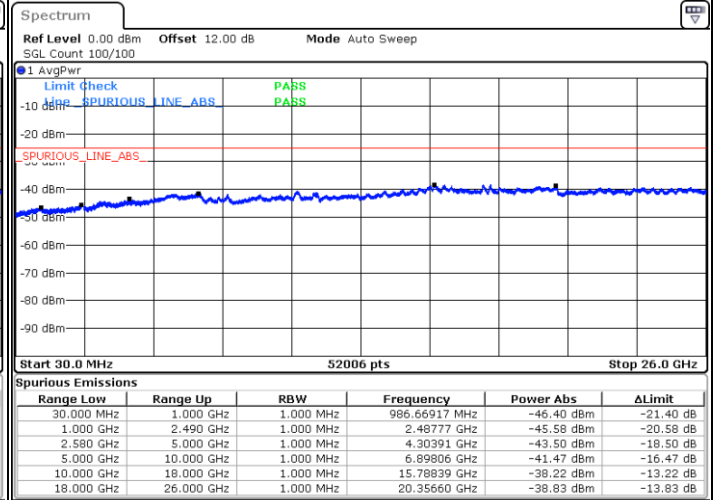
LTE Band 7 / 10MHz

Middle Channel / QPSK



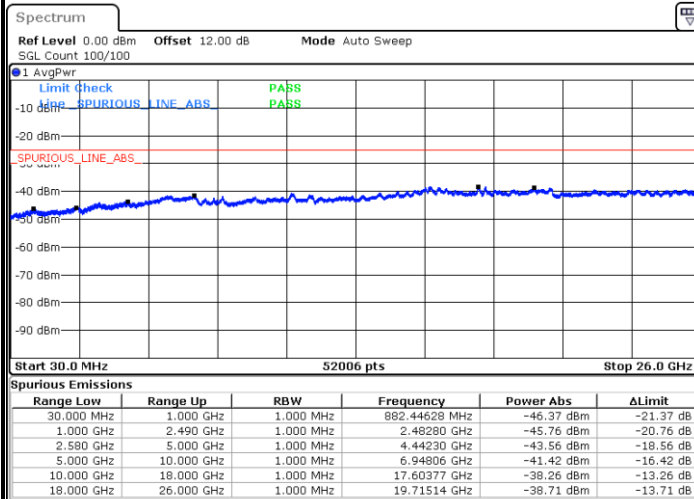
Date: 24.SEP.2020 16:21:13

Middle Channel / 16QAM



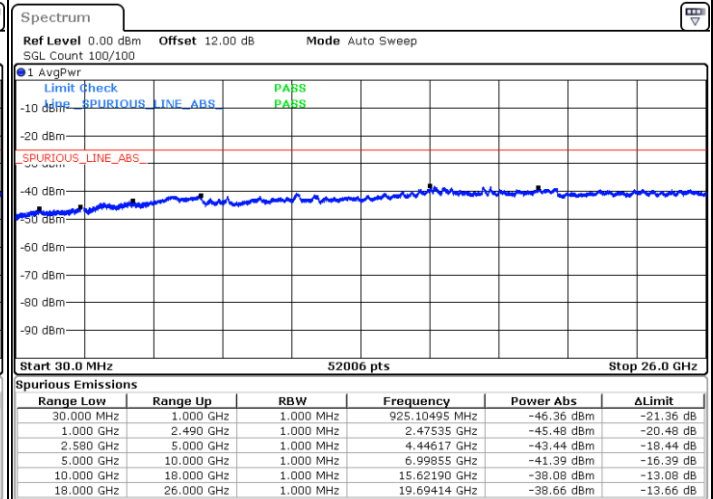
Date: 24.SEP.2020 16:22:02

Highest Channel / QPSK



Date: 24.SEP.2020 16:24:51

Highest Channel / 16QAM

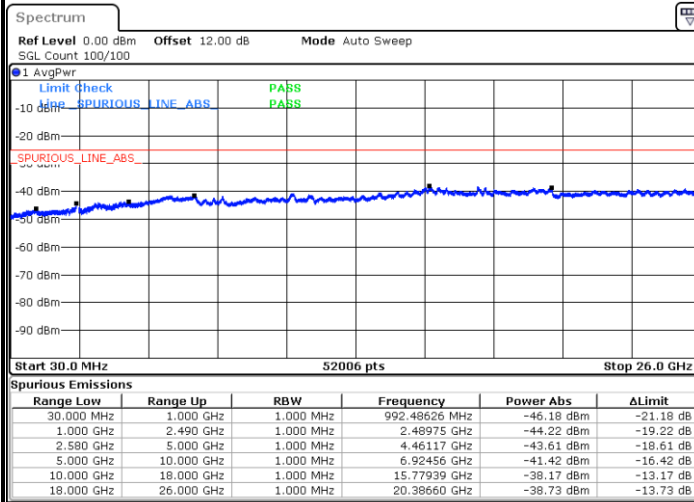


Date: 24.SEP.2020 16:25:41



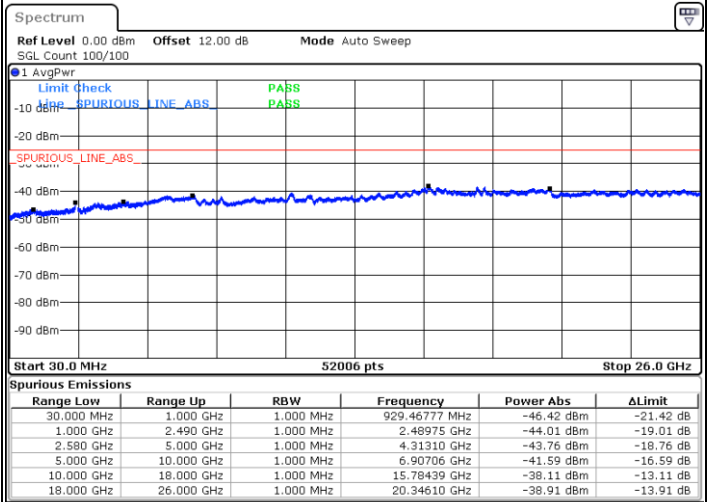
LTE Band 7 / 15MHz

Lowest Channel / QPSK



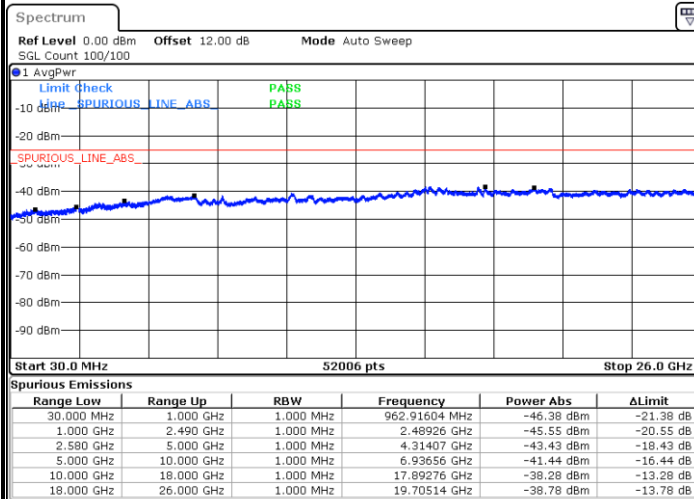
Date: 24.SEP.2020 16:33:23

Lowest Channel / 16QAM



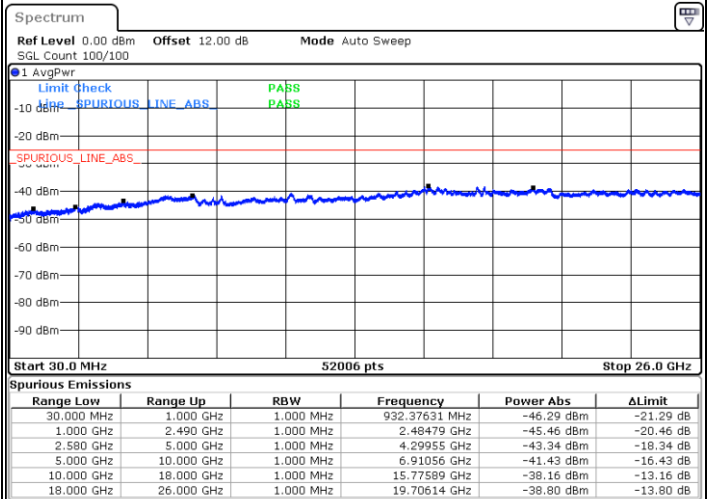
Date: 24.SEP.2020 16:34:12

Middle Channel / QPSK



Date: 24.SEP.2020 16:35:46

Middle Channel / 16QAM

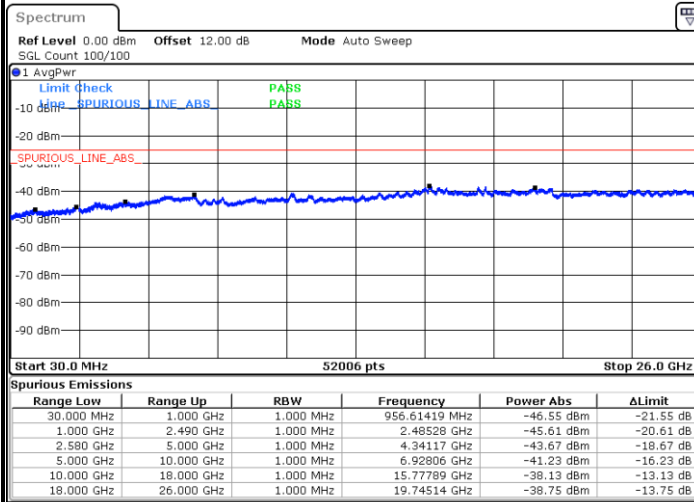


Date: 24.SEP.2020 16:36:35



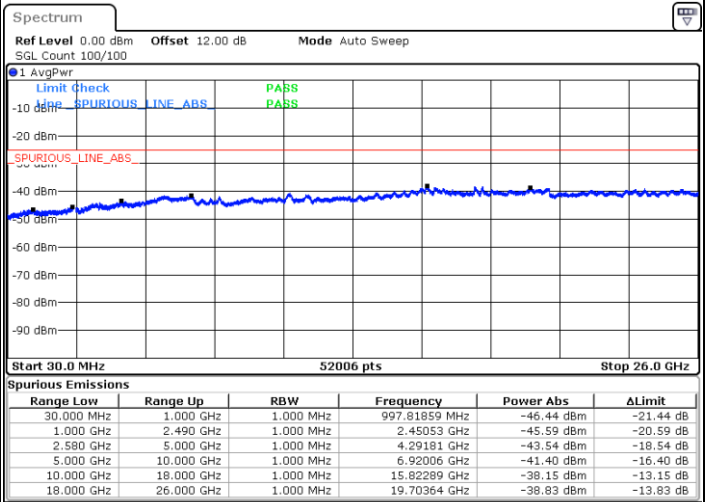
LTE Band7 / 15MHz

Highest Channel / QPSK



Date: 24.SEP.2020 16:39:24

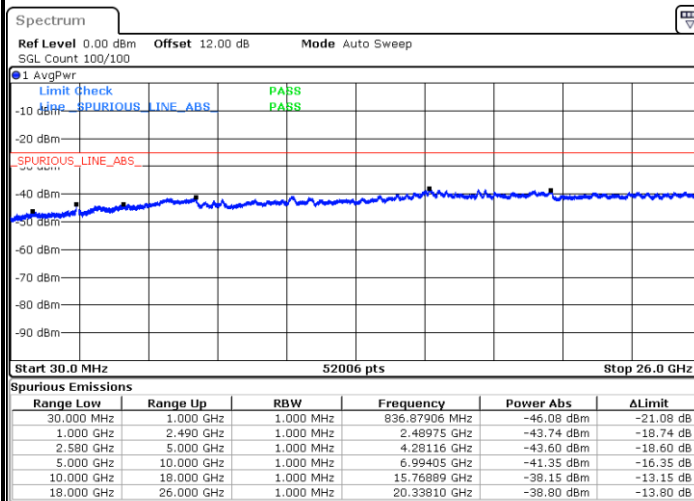
Highest Channel / 16QAM



Date: 24.SEP.2020 16:40:13

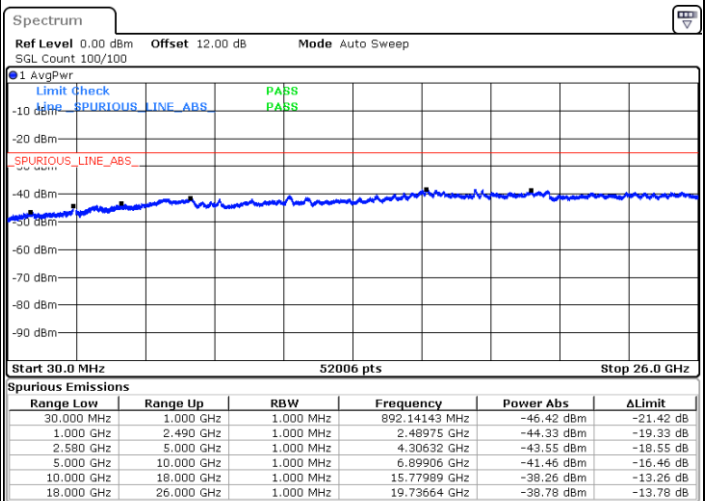
LTE Band 7 / 20MHz

Lowest Channel / QPSK



Date: 24.SEP.2020 16:47:55

Lowest Channel / 16QAM

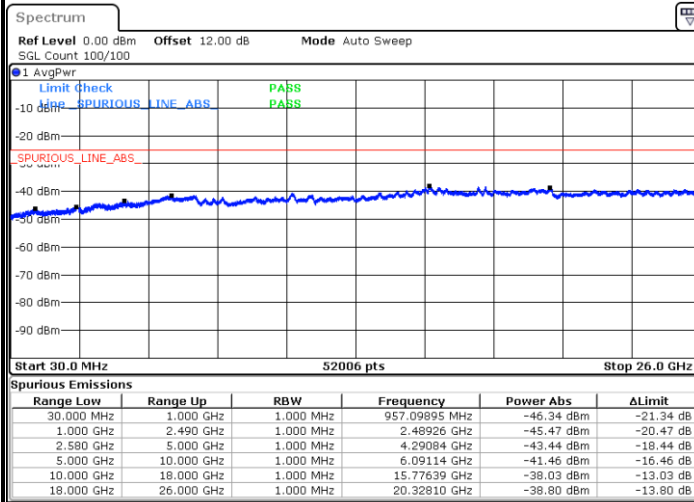


Date: 24.SEP.2020 16:48:44



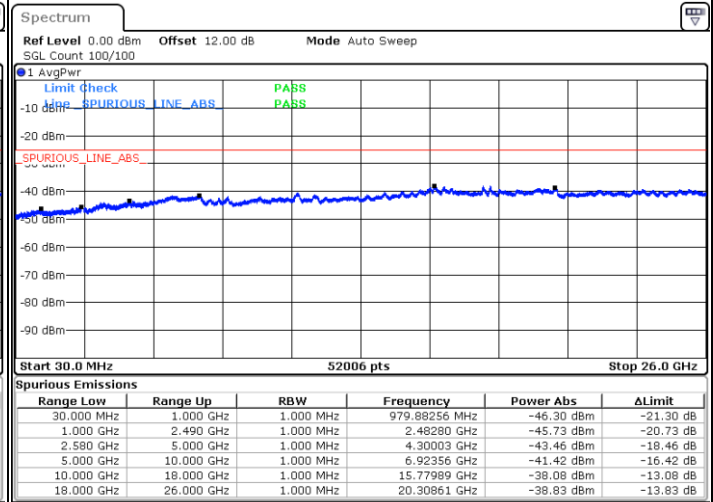
LTE Band 7 / 20MHz

Middle Channel / QPSK



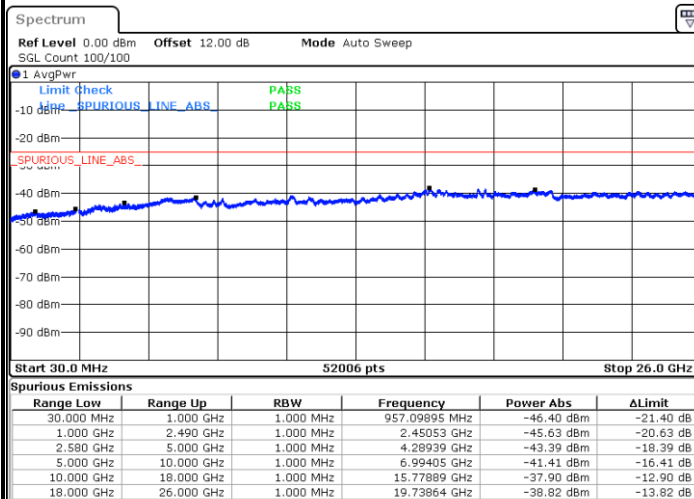
Date: 24.SEP.2020 16:50:19

Middle Channel / 16QAM



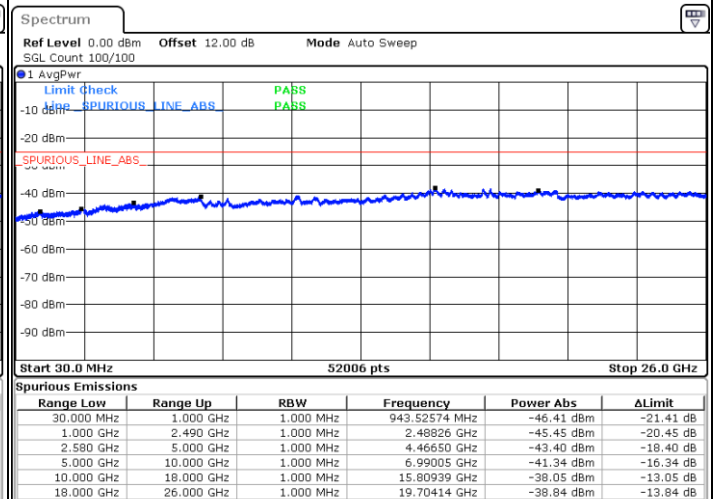
Date: 24.SEP.2020 16:51:07

Highest Channel / QPSK



Date: 24.SEP.2020 16:53:57

Highest Channel / 16QAM

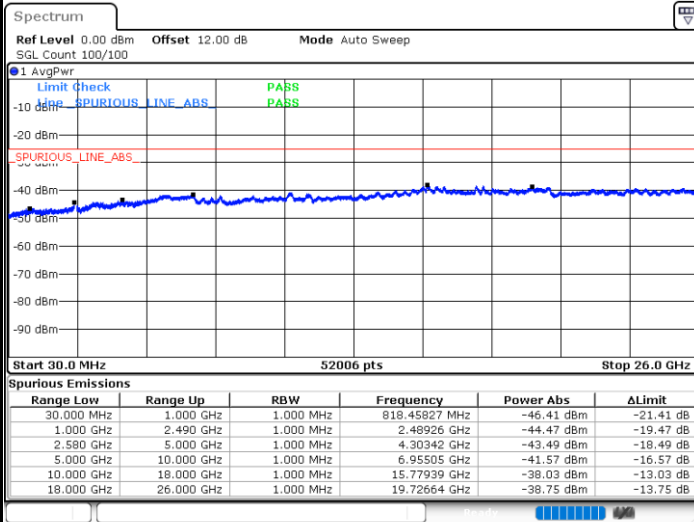


Date: 24.SEP.2020 16:54:46



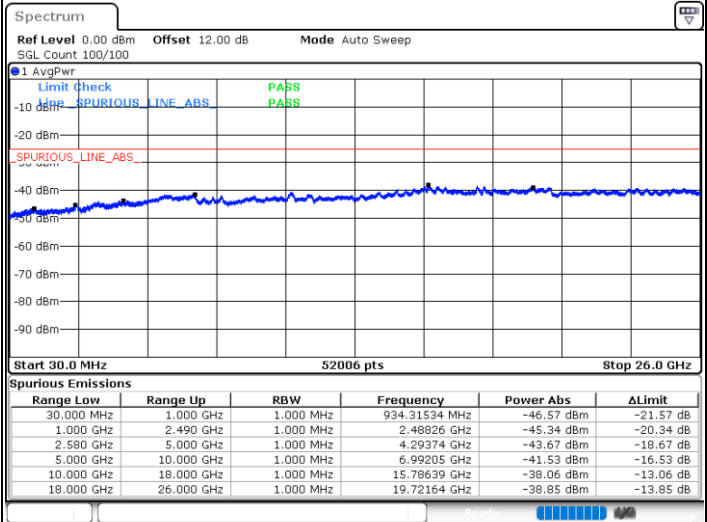
LTE Band 7 / 5MHz

Lowest Channel / 64QAM



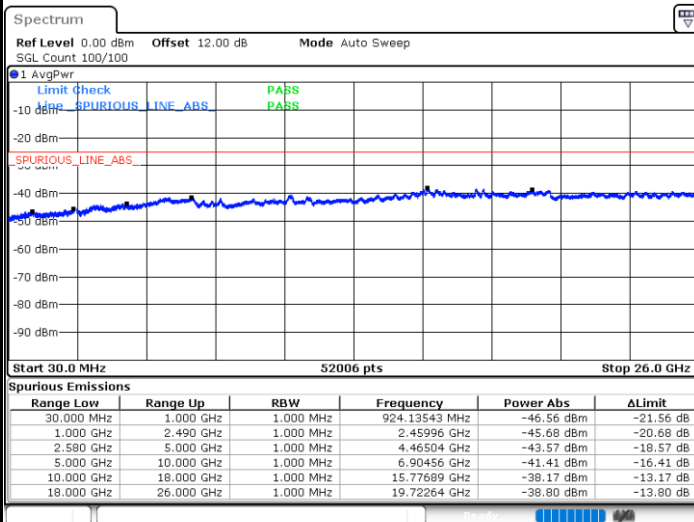
Date: 24.SEP.2020 16:12:59

Middle Channel / 64QAM



Date: 24.SEP.2020 16:14:11

Highest Channel / 64QAM

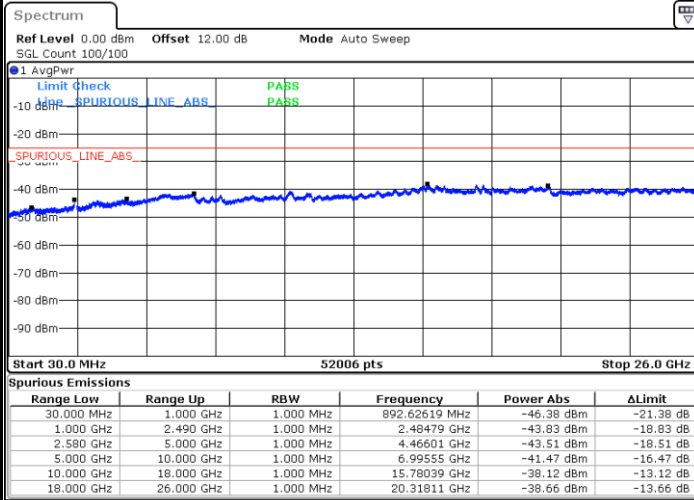


Date: 24.SEP.2020 16:16:00



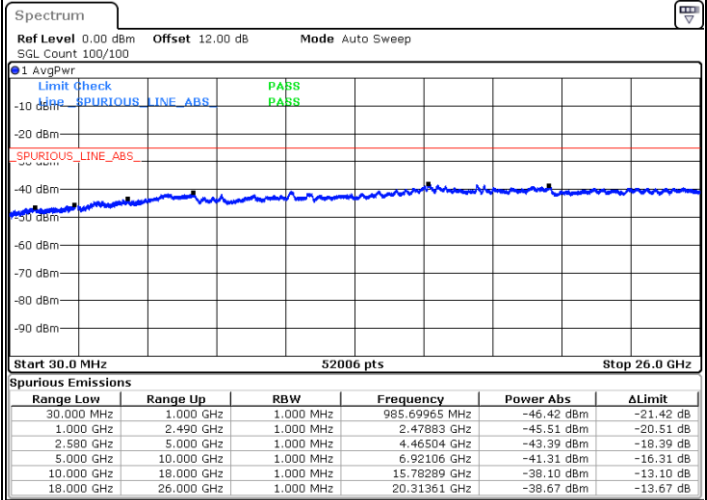
LTE Band 7 / 10MHz

Lowest Channel / 64QAM



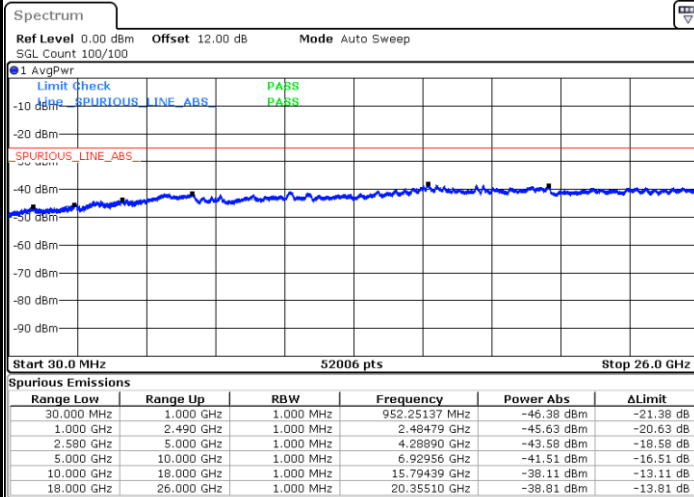
Date: 24.SEP.2020 16:27:30

Middle Channel / 64QAM



Date: 24.SEP.2020 16:28:42

Highest Channel / 64QAM

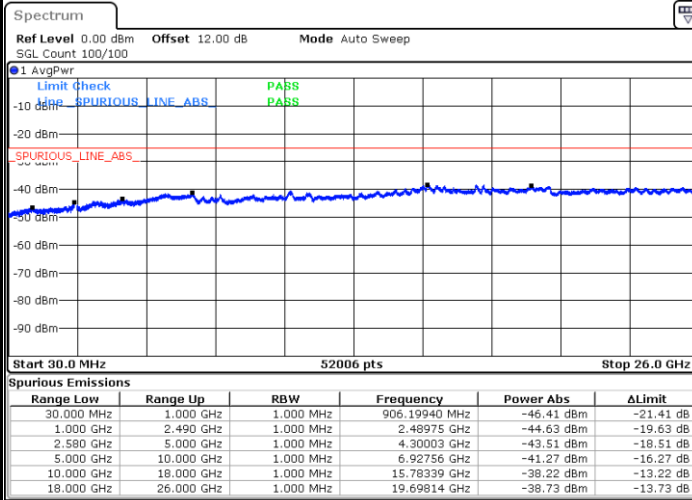


Date: 24.SEP.2020 16:30:31



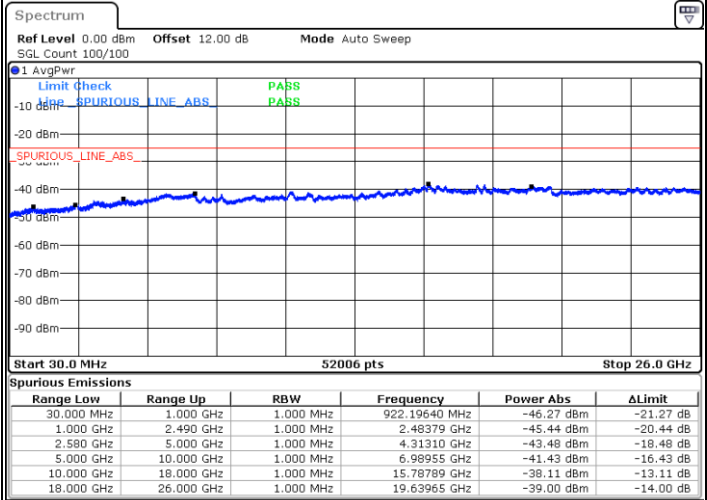
LTE Band 7 / 15MHz

Lowest Channel / 64QAM



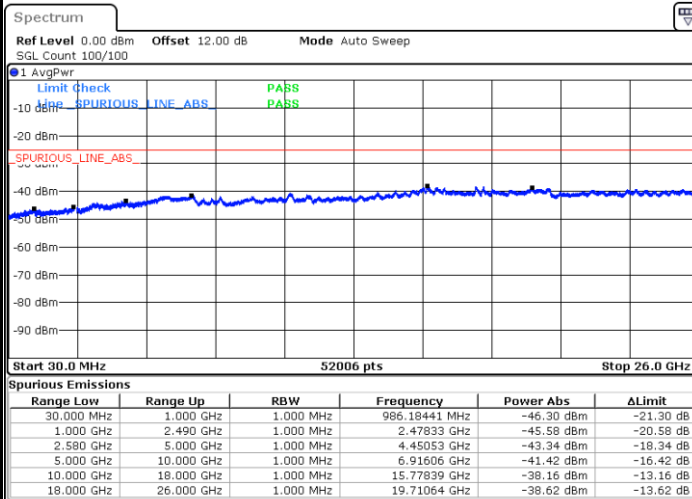
Date: 24.SEP.2020 16:42:04

Middle Channel / 64QAM



Date: 24.SEP.2020 16:43:15

Highest Channel / 64QAM

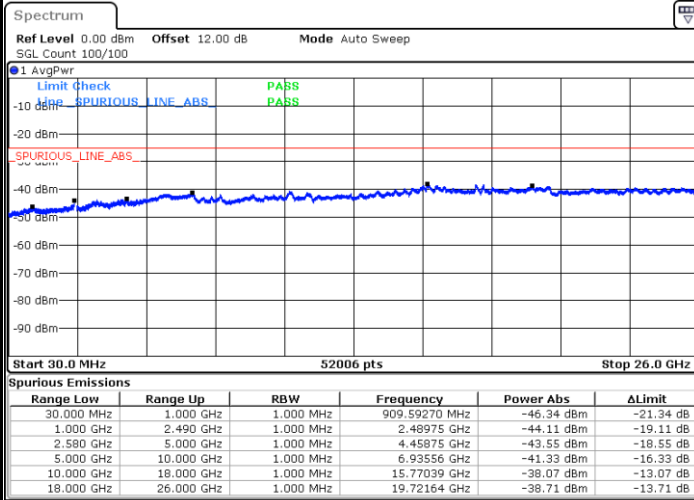


Date: 24.SEP.2020 16:45:04



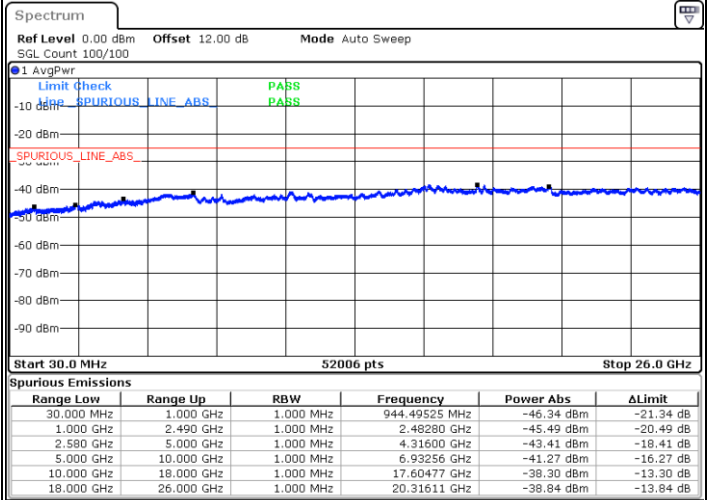
LTE Band 7 / 20MHz

Lowest Channel / 64QAM



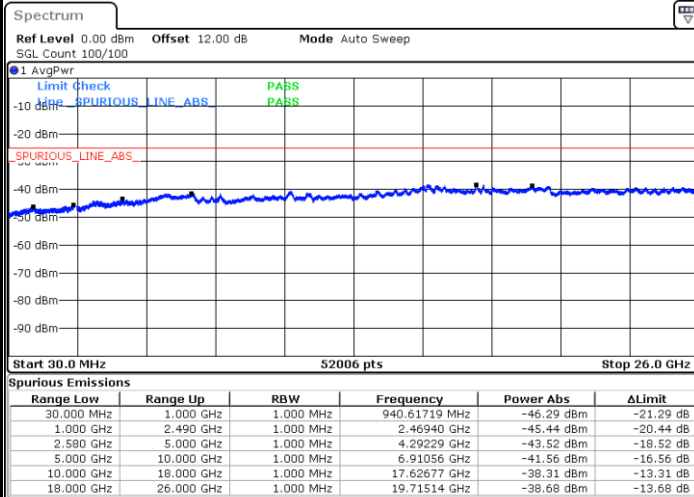
Date: 24.SEP.2020 16:56:36

Middle Channel / 64QAM



Date: 24.SEP.2020 16:57:47

Highest Channel / 64QAM

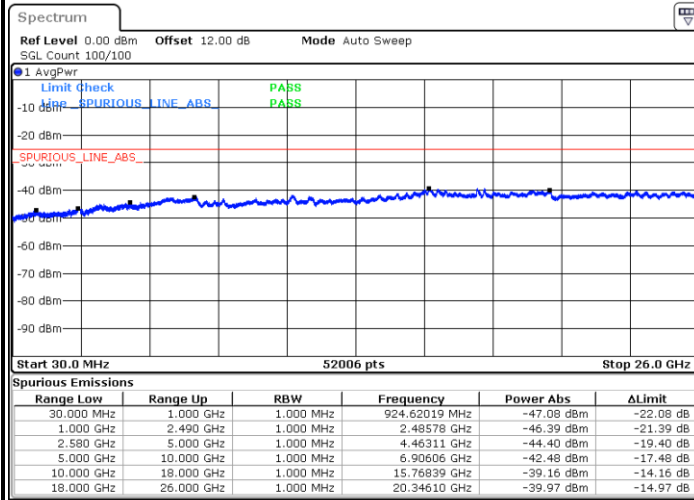


Date: 24.SEP.2020 16:59:36



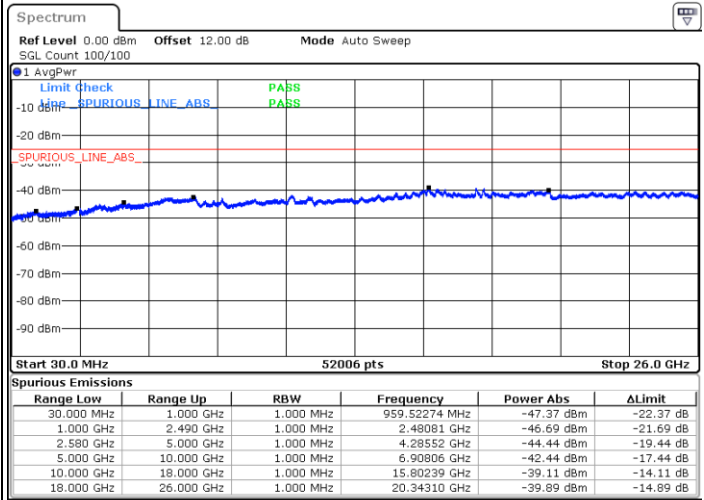
LTE Band 7 / 5MHz

Lowest Channel / 256QAM



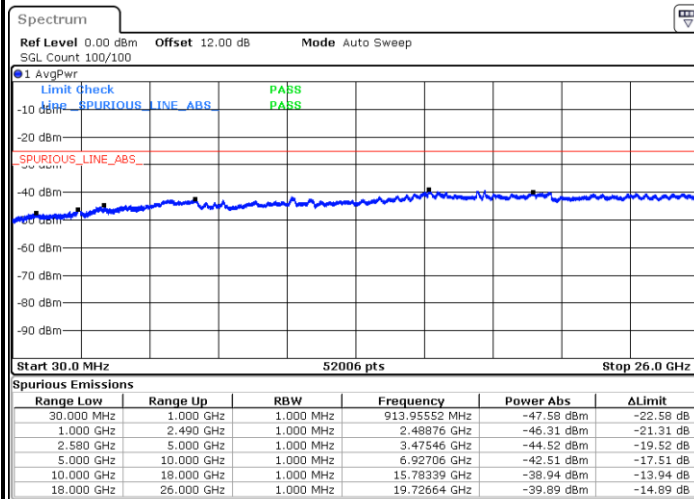
Date: 28.SEP.2020 08:54:26

Middle Channel / 256QAM



Date: 28.SEP.2020 08:52:28

Highest Channel / 256QAM

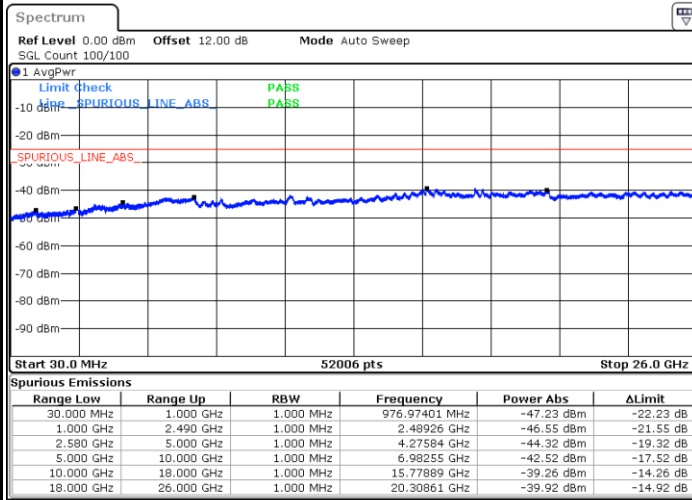


Date: 28.SEP.2020 08:56:17



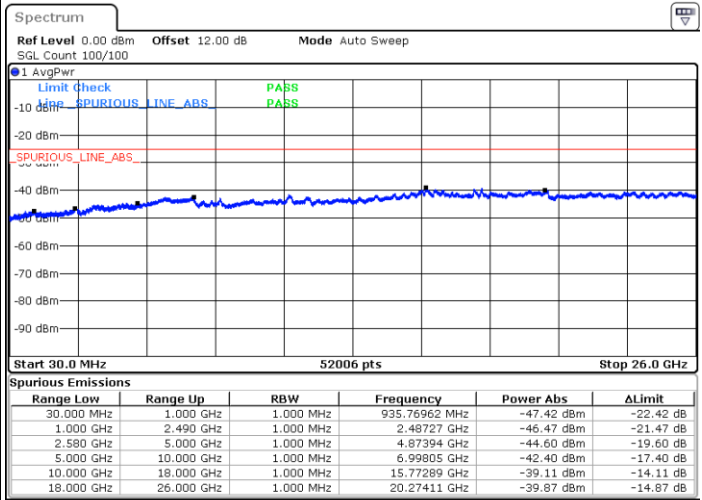
LTE Band 7 / 10MHz

Lowest Channel / 256QAM



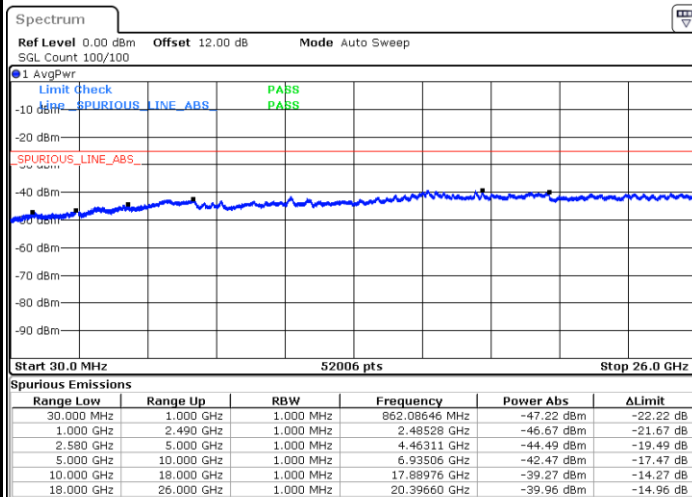
Date: 28.SEP.2020 08:59:50

Middle Channel / 256QAM



Date: 28.SEP.2020 08:58:04

Highest Channel / 256QAM

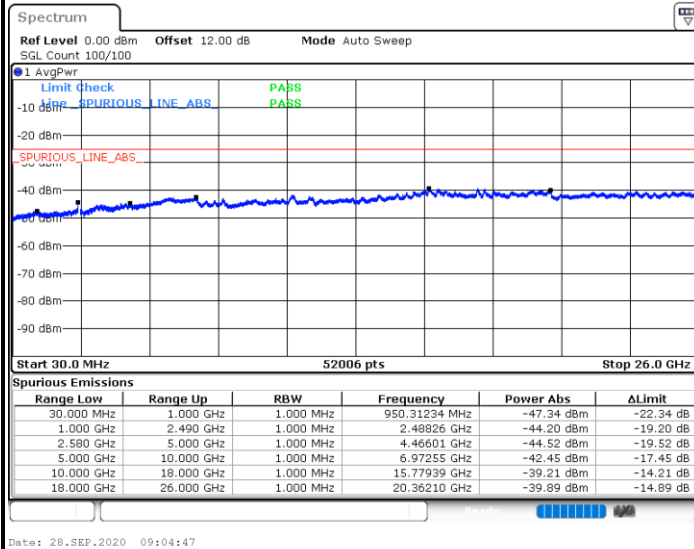


Date: 28.SEP.2020 09:01:30

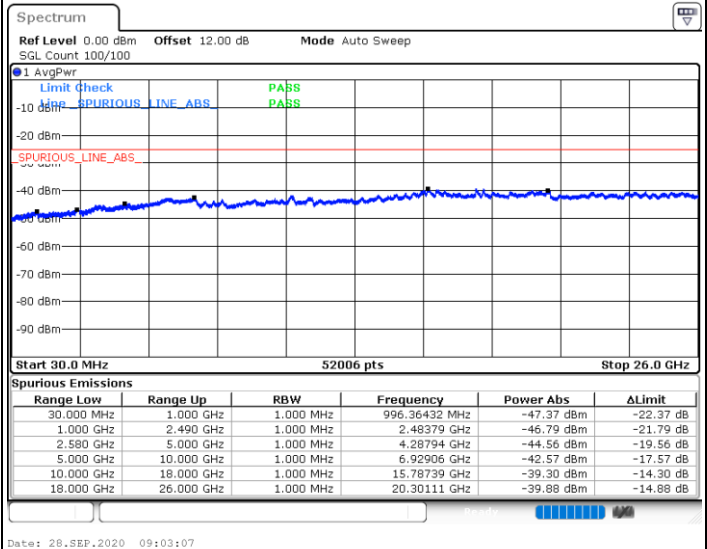


LTE Band 7 / 15MHz

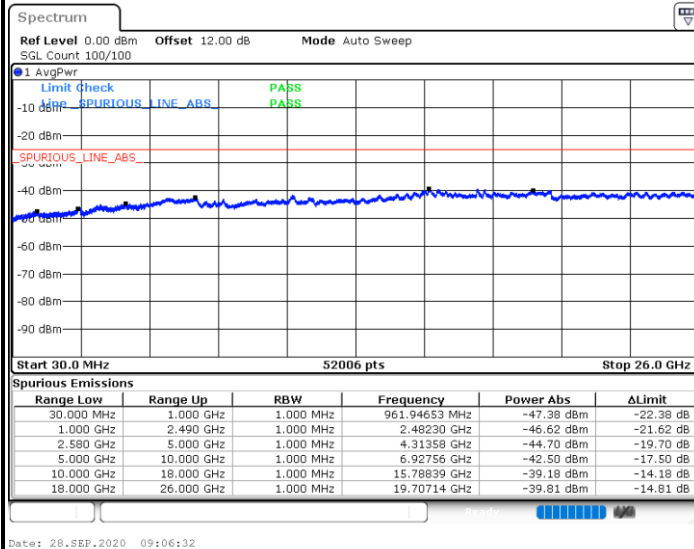
Lowest Channel / 256QAM



Middle Channel / 256QAM



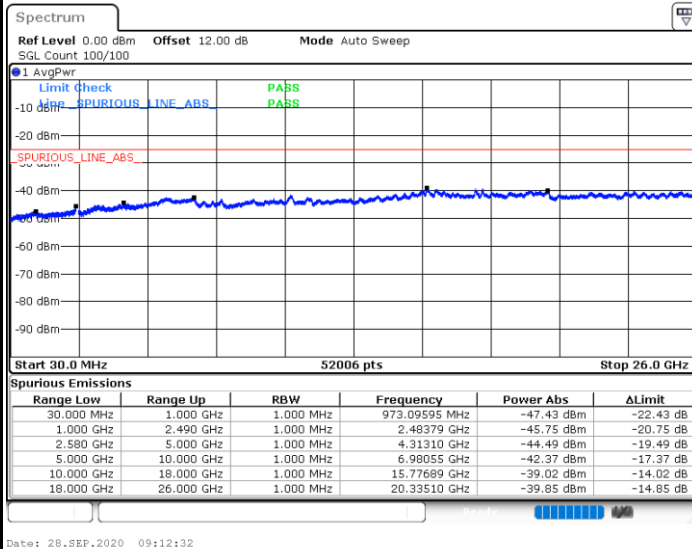
Highest Channel / 256QAM



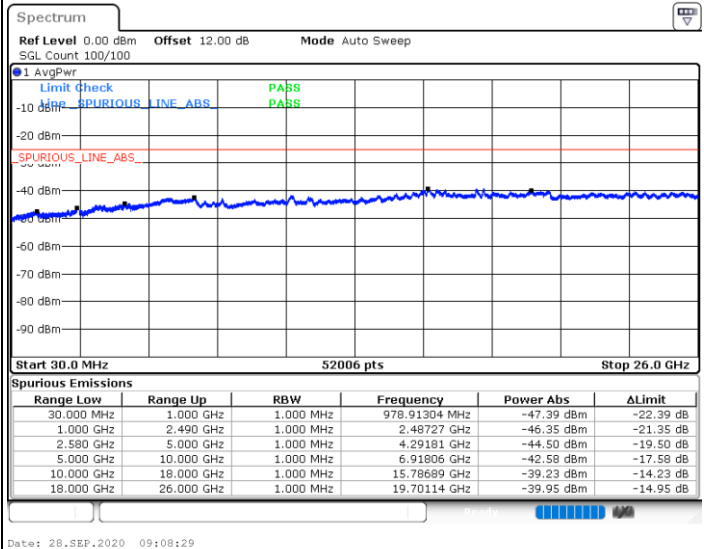


LTE Band 7 / 20MHz

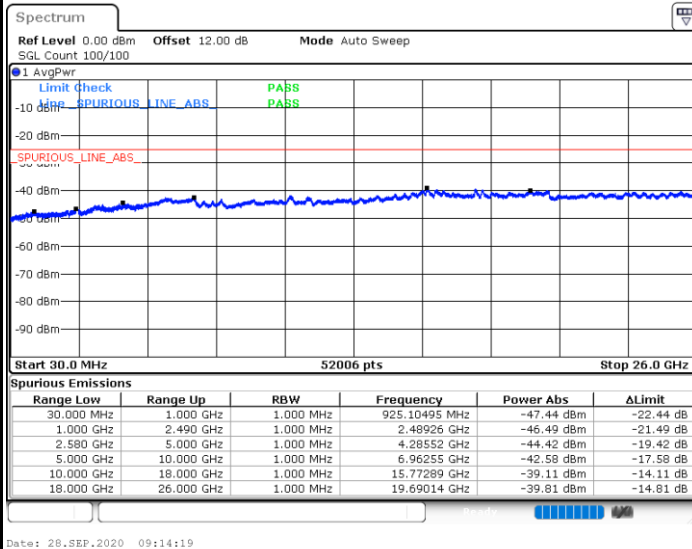
Lowest Channel / 256QAM



Middle Channel / 256QAM



Highest Channel / 256QAM



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	0.0078	PASS
40	Normal Voltage	0.0017	
30	Normal Voltage	0.0005	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0031	
0	Normal Voltage	0.0066	
-10	Normal Voltage	0.0019	
-20	Normal Voltage	0.0002	
-30	Normal Voltage	0.0049	
20	Maximum Voltage	0.0033	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0016	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.3 V. ; Maximum Voltage =4.25 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 12

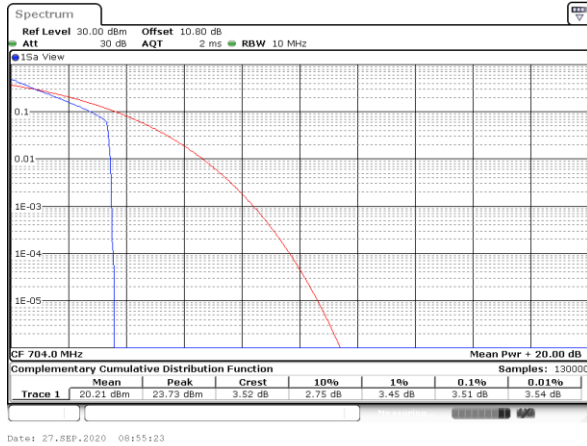
Peak-to-Average Ratio

Mode	LTE Band 12 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.51	5.10	5.45	5.88	PASS
Middle CH	3.45	5.07	5.01	5.91	
Highest CH	3.62	5.04	5.30	5.91	
Mode	LTE Band 12 / 10MHz				
Mod.	64QAM		256QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	6.96	6.38	7.54	6.43	PASS
Middle CH	6.03	6.46	6.38	6.41	
Highest CH	7.30	6.26	6.58	6.32	

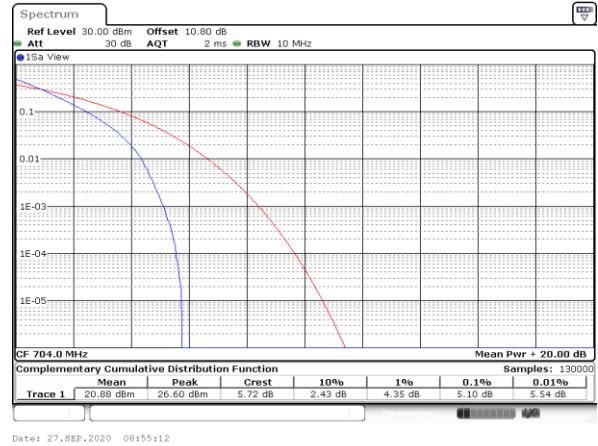


LTE Band 12 / 10MHz / QPSK

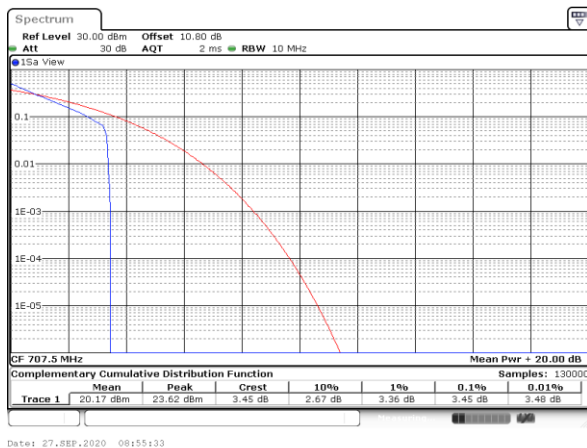
Lowest Channel / 1RB



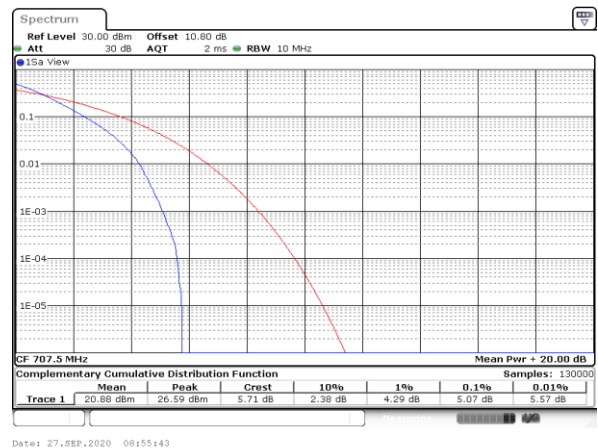
Lowest Channel / Full RB



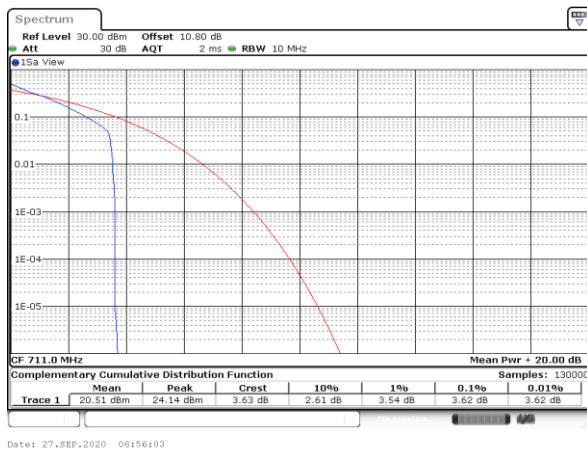
Middle Channel / 1RB



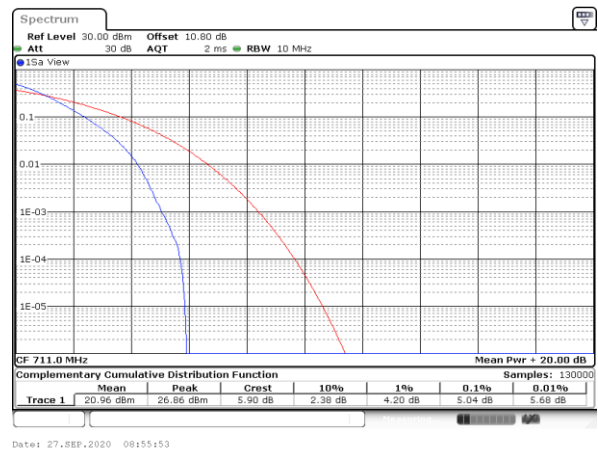
Middle Channel / Full RB



Highest Channel / 1RB



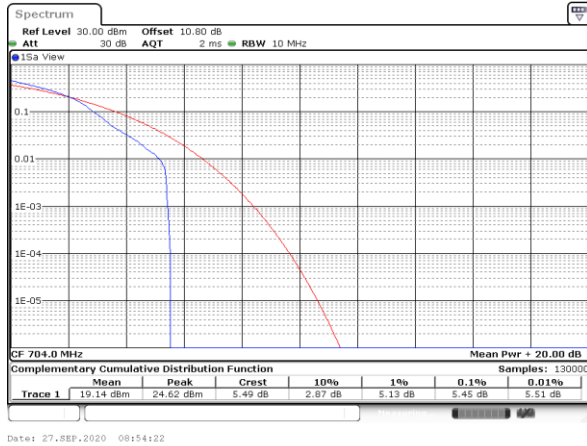
Highest Channel / Full RB



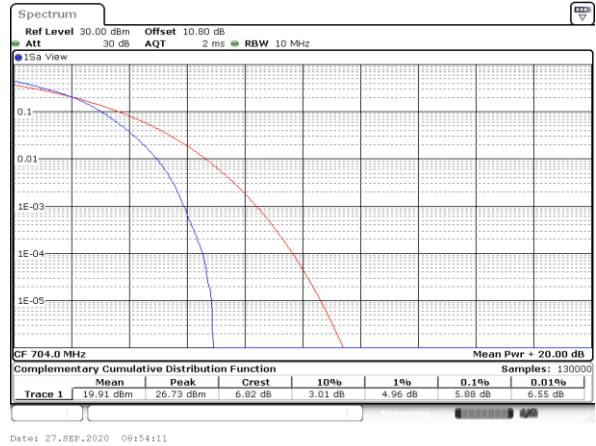


LTE Band 12 / 10MHz / 16QAM

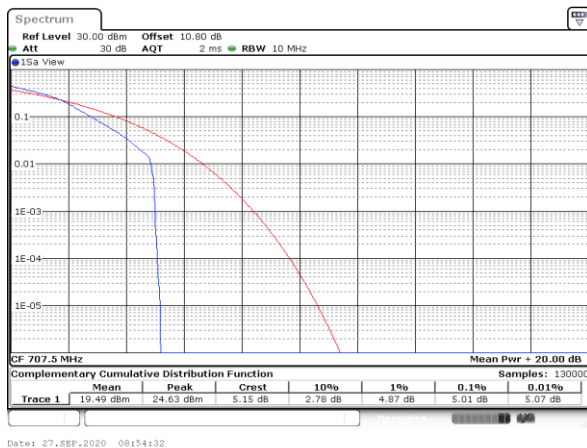
Lowest Channel / 1RB



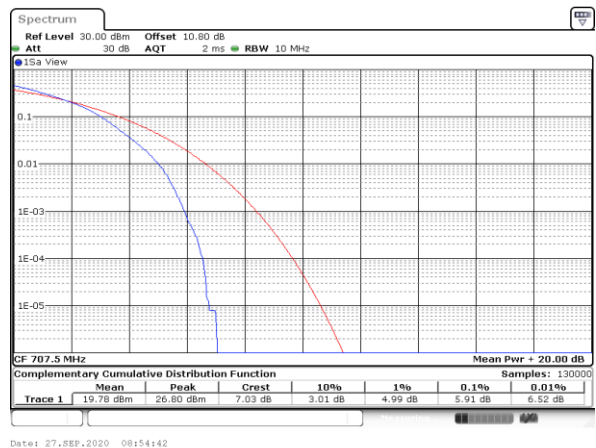
Lowest Channel / Full RB



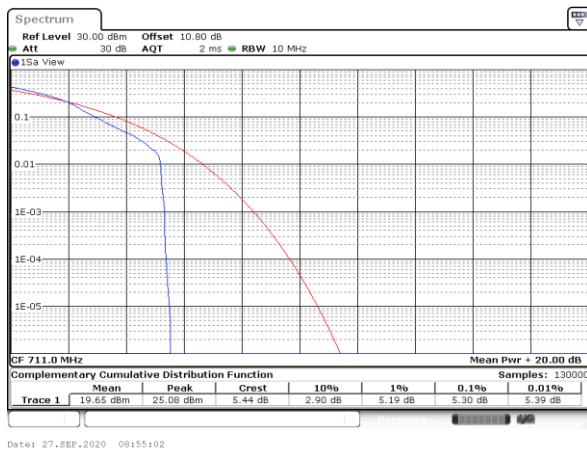
Middle Channel / 1RB



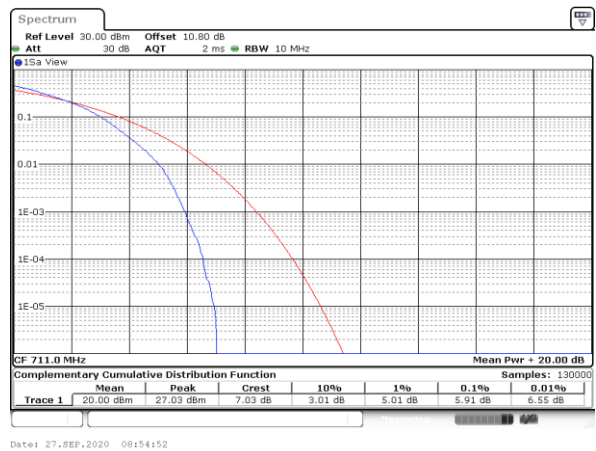
Middle Channel / Full RB



Highest Channel / 1RB



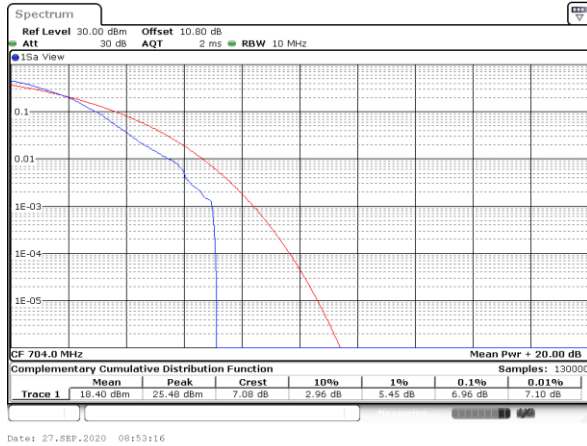
Highest Channel / Full RB



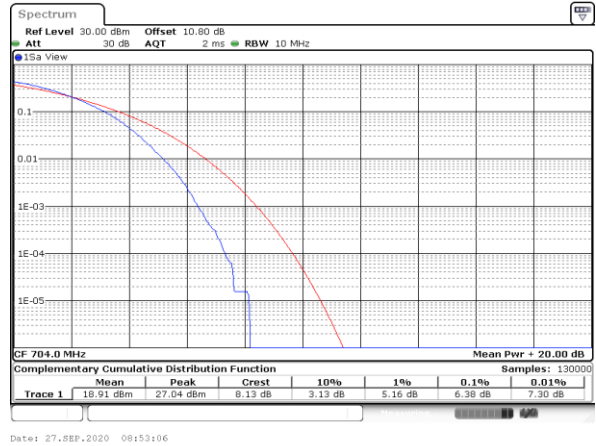


LTE Band 12 / 10MHz / 64QAM

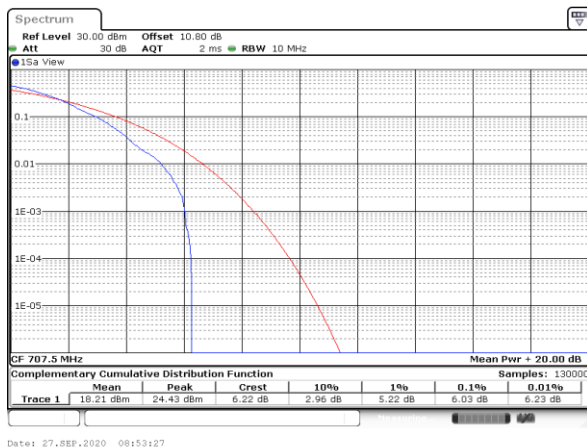
Lowest Channel / 1RB



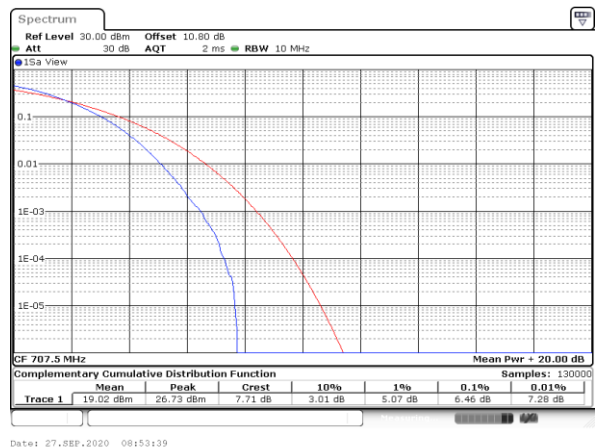
Lowest Channel / Full RB



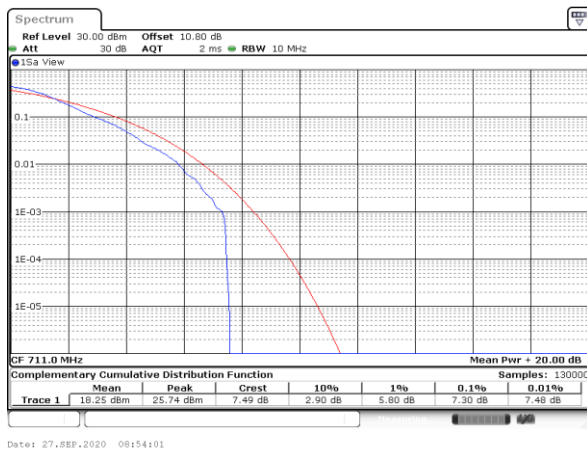
Middle Channel / 1RB



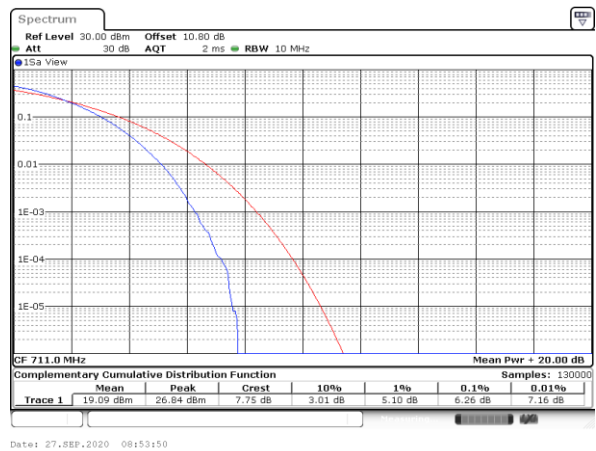
Middle Channel / Full RB

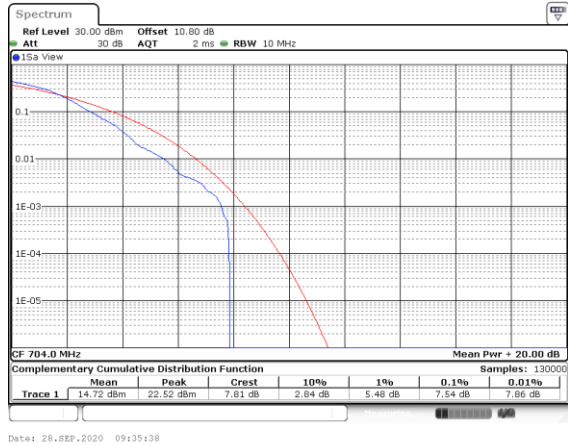
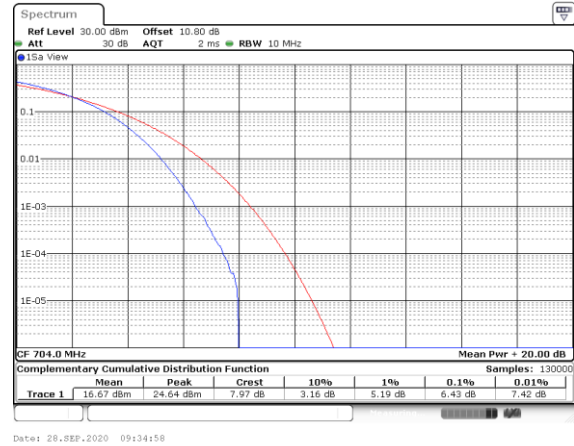
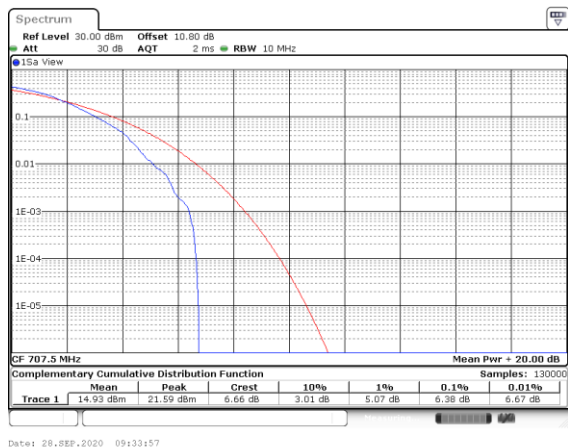
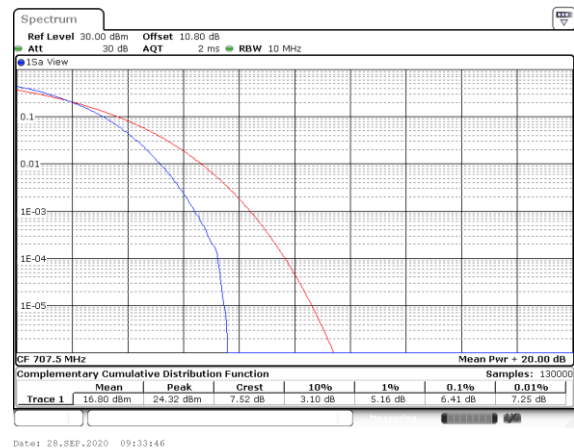
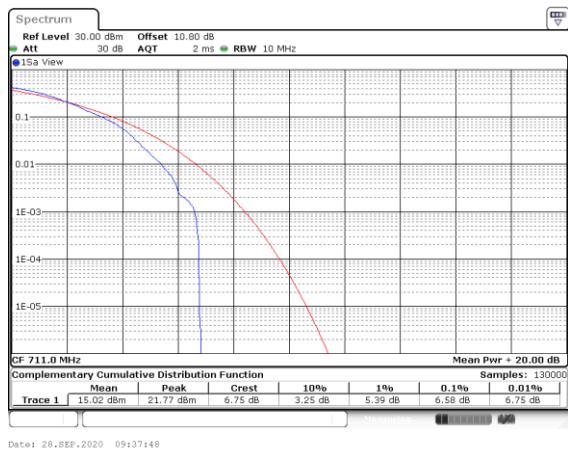
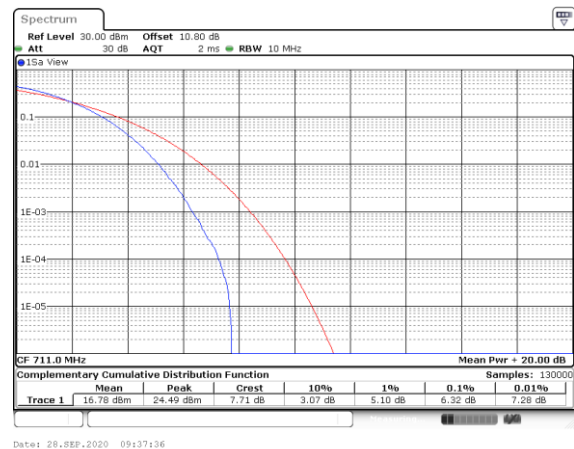


Highest Channel / 1RB



Highest Channel / Full RB



LTE Band 12 / 10MHz / 256QAM
Lowest Channel / 1RB

Lowest Channel / Full RB

Middle Channel / 1RB

Middle Channel / Full RB

Highest Channel / 1RB

Highest Channel / Full RB


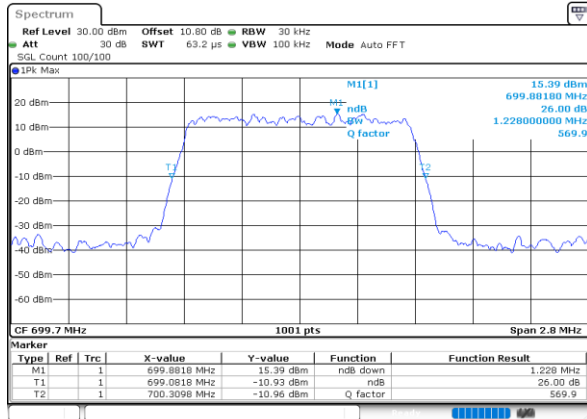
**26dB Bandwidth**

Mode	LTE Band 12 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		-		-	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	-	-	-	-
Lowest CH	1.23	1.24	3.02	3.02	4.91	4.82	9.67	9.65	-	-	-	-
Middle CH	1.22	1.22	2.99	3.00	4.88	4.86	9.87	9.69	-	-	-	-
Highest CH	1.23	1.23	3.05	3.00	4.86	4.91	9.69	9.63	-	-	-	-
Mode	LTE Band 12 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		-		-	
Mod.	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	-	-	-	-
Lowest CH	1.24	1.22	3.02	3.00	4.84	4.90	9.79	9.65	-	-	-	-
Middle CH	1.20	1.23	3.03	3.02	4.88	4.90	9.77	9.71	-	-	-	-
Highest CH	1.22	1.22	3.00	3.05	4.92	4.88	9.71	9.79	-	-	-	-

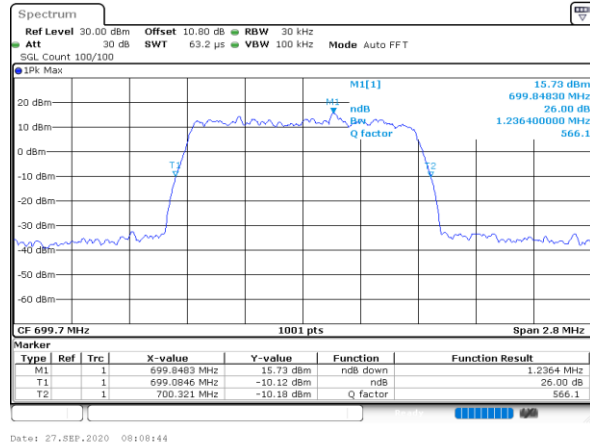


LTE Band 12

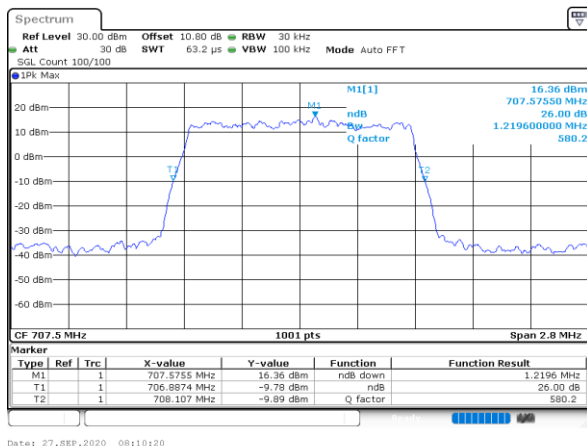
Lowest Channel / 1.4MHz / QPSK



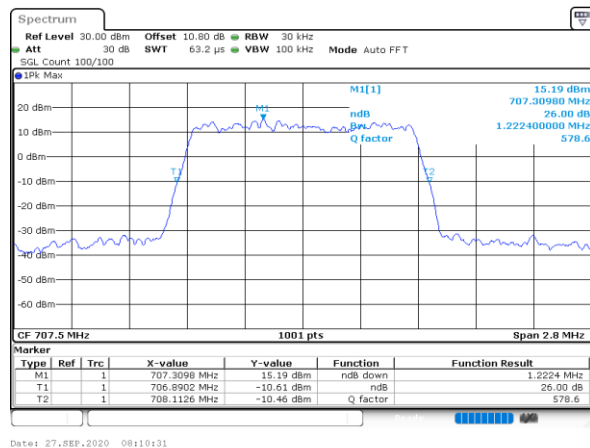
Lowest Channel / 1.4MHz / 16QAM



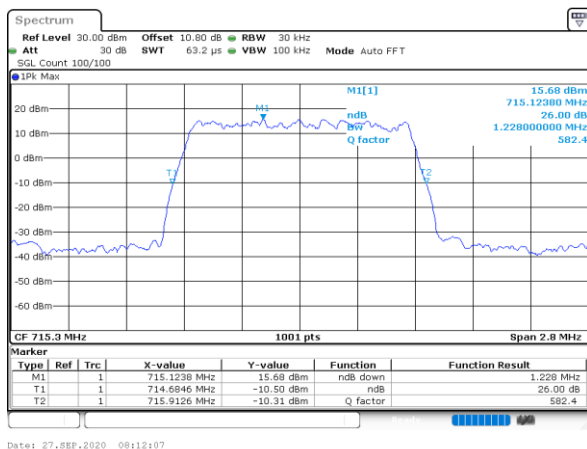
Middle Channel / 1.4MHz / QPSK



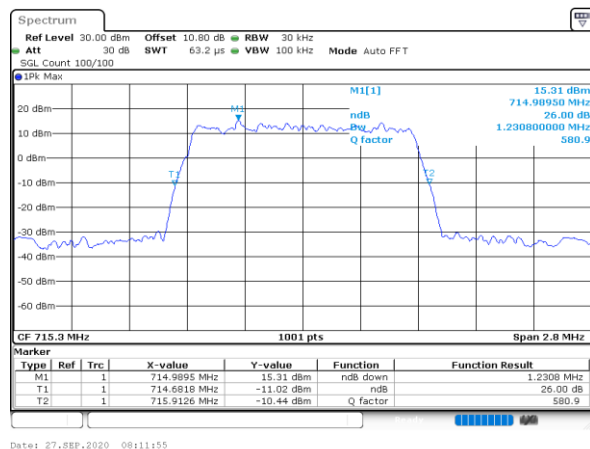
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



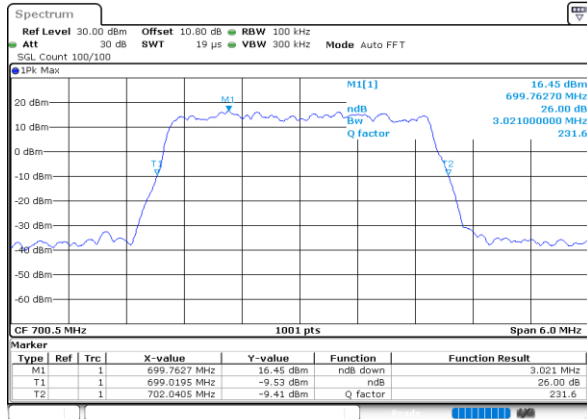
Highest Channel / 1.4MHz / 16QAM



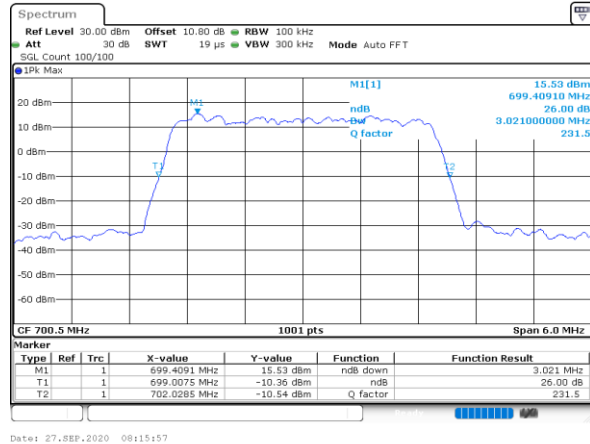


LTE Band 12

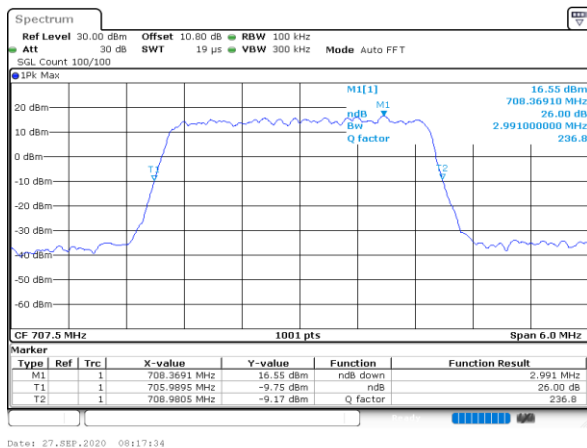
Lowest Channel / 3MHz / QPSK



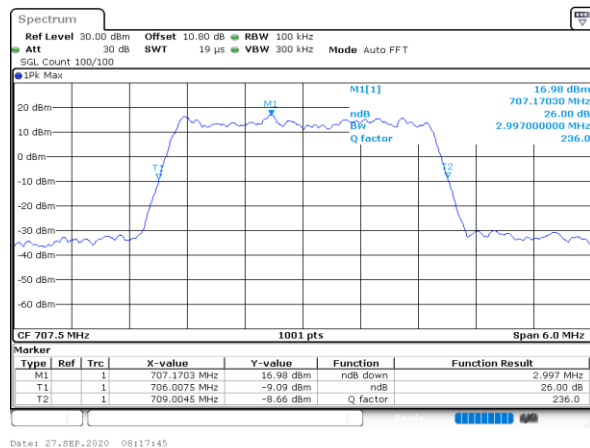
Lowest Channel / 3MHz / 16QAM



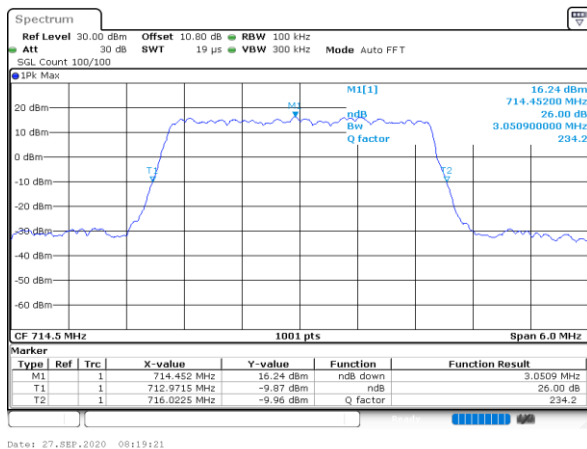
Middle Channel / 3MHz / QPSK



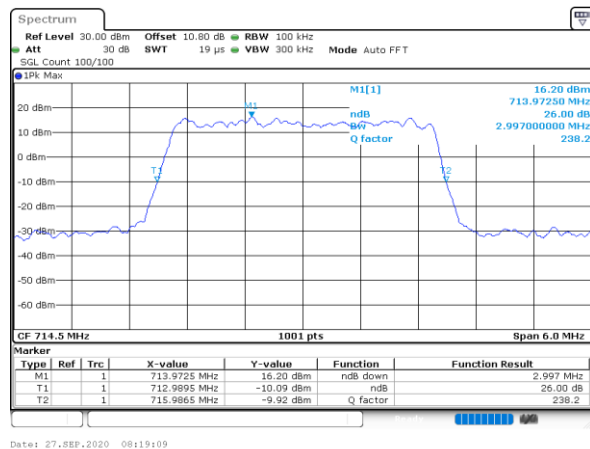
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK



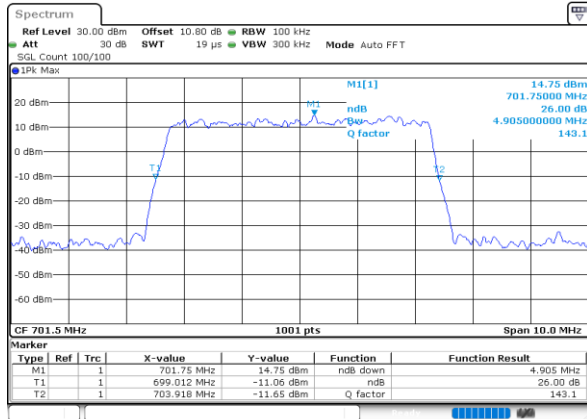
Highest Channel / 3MHz / 16QAM



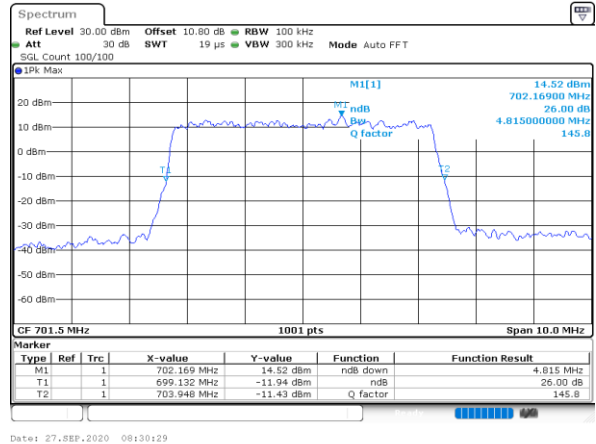


LTE Band 12

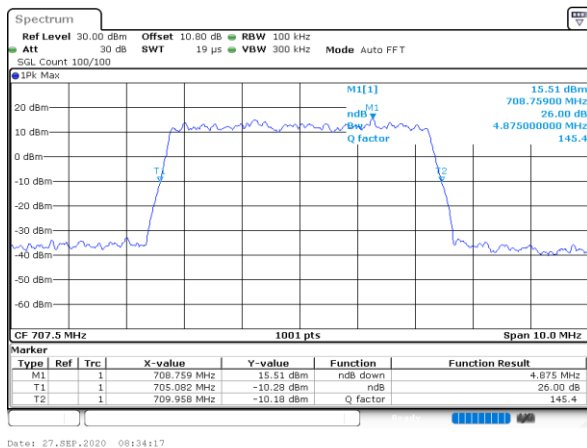
Lowest Channel / 5MHz / QPSK



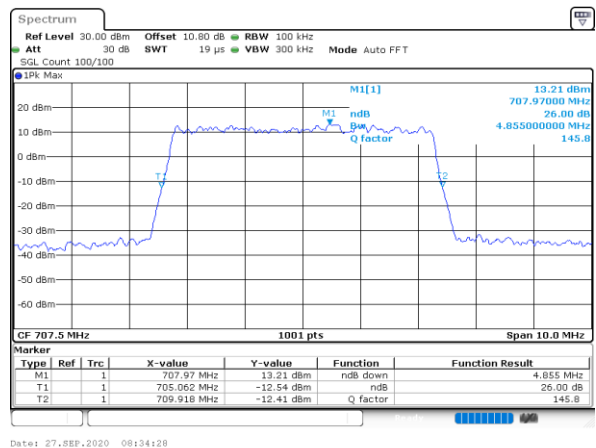
Lowest Channel / 5MHz / 16QAM



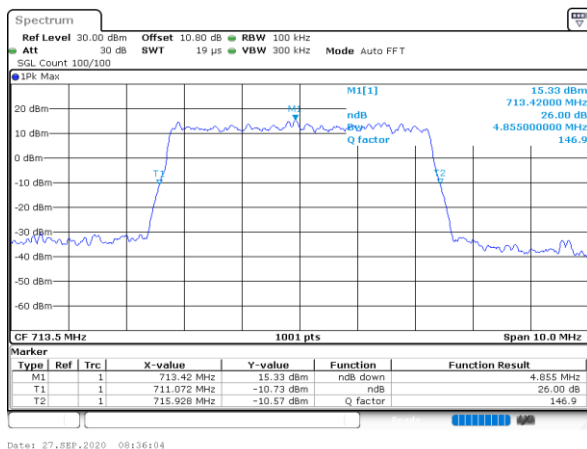
Middle Channel / 5MHz / QPSK



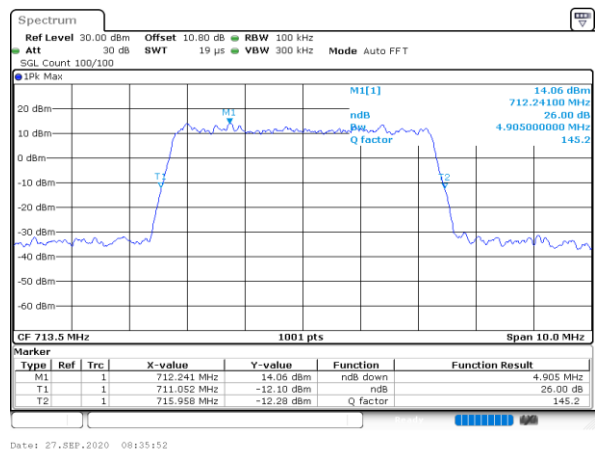
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



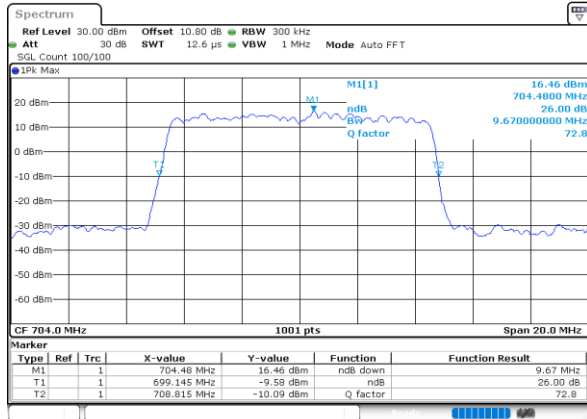
Highest Channel / 5MHz / 16QAM





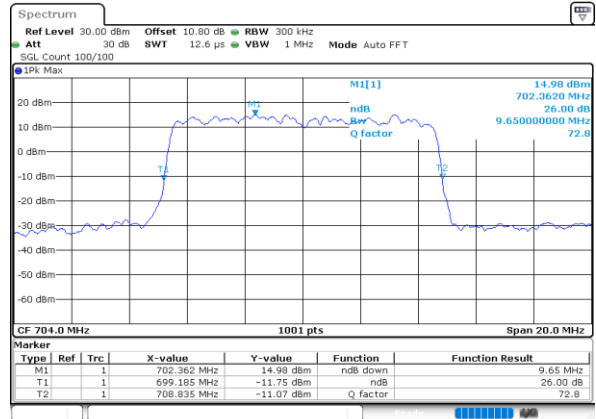
LTE Band 12

Lowest Channel / 10MHz / QPSK



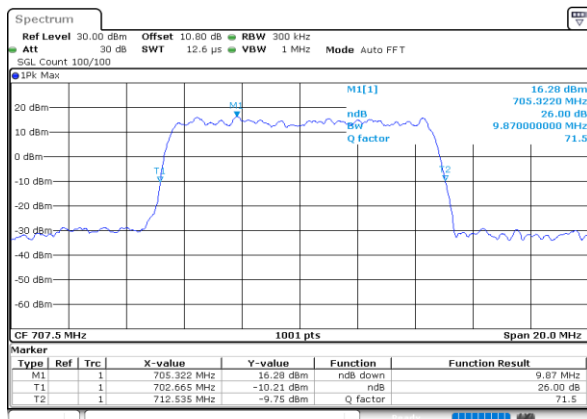
Date: 27.SEP.2020 08:39:52

Lowest Channel / 10MHz / 16QAM



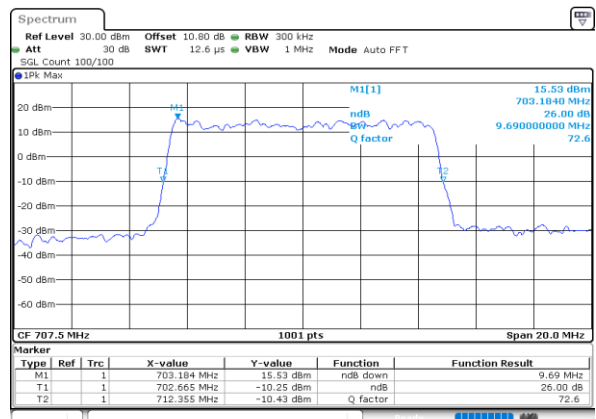
Date: 27.SEP.2020 08:39:40

Middle Channel / 10MHz / QPSK



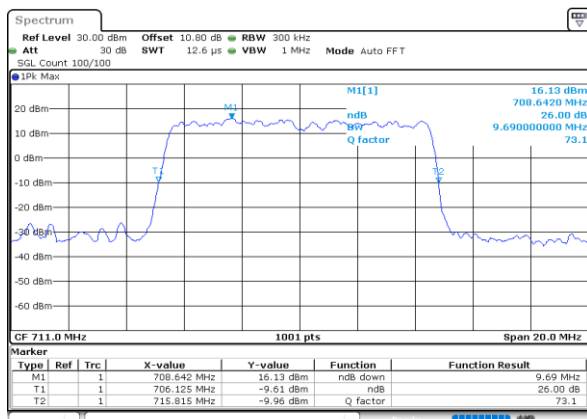
Date: 27.SEP.2020 08:43:29

Middle Channel / 10MHz / 16QAM



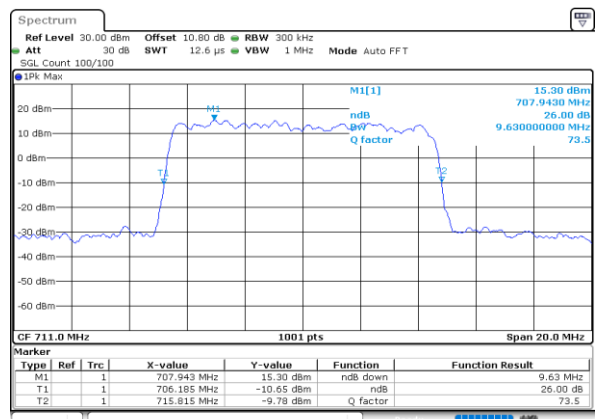
Date: 27.SEP.2020 08:43:40

Highest Channel / 10MHz / QPSK



Date: 27.SEP.2020 08:45:16

Highest Channel / 10MHz / 16QAM

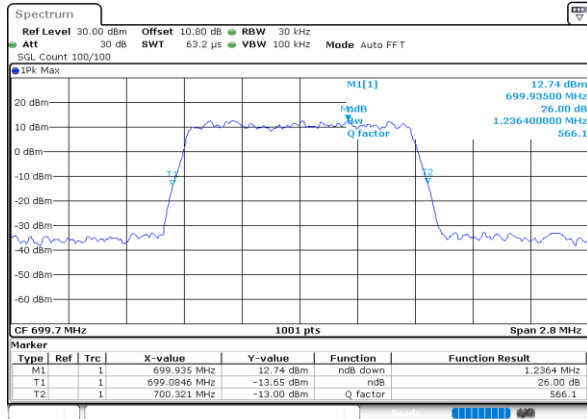


Date: 27.SEP.2020 08:45:04

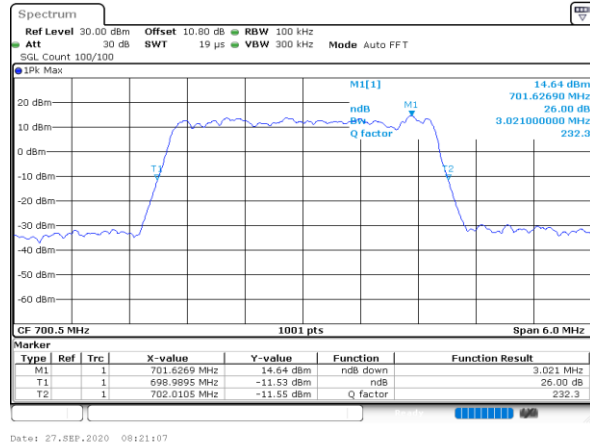


LTE Band 12

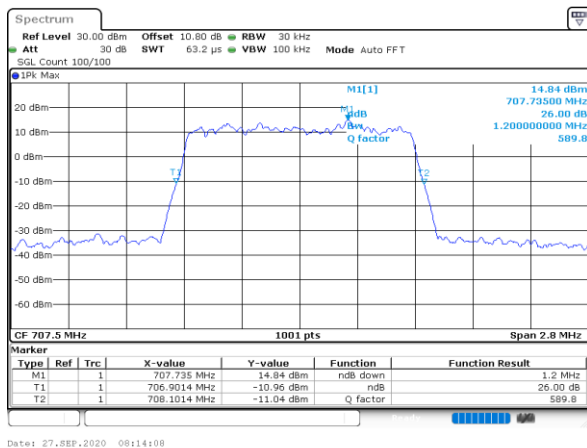
Lowest Channel / 1.4MHz / 64QAM



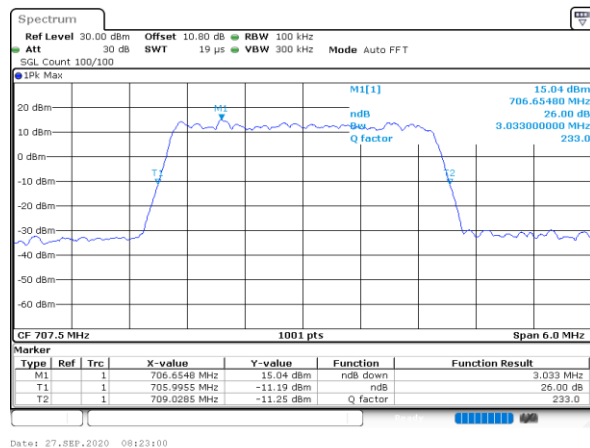
Lowest Channel / 3MHz / 64QAM



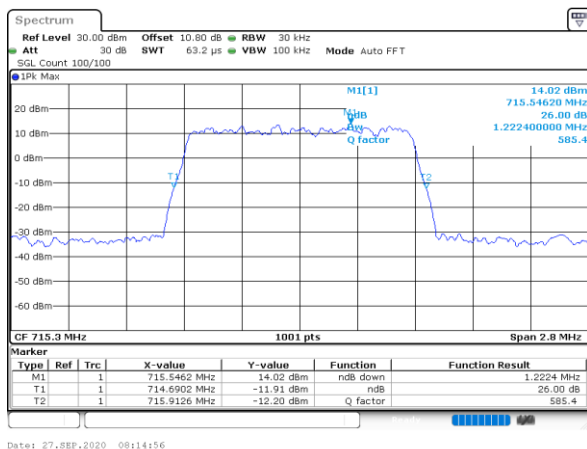
Middle Channel / 1.4MHz / 64QAM



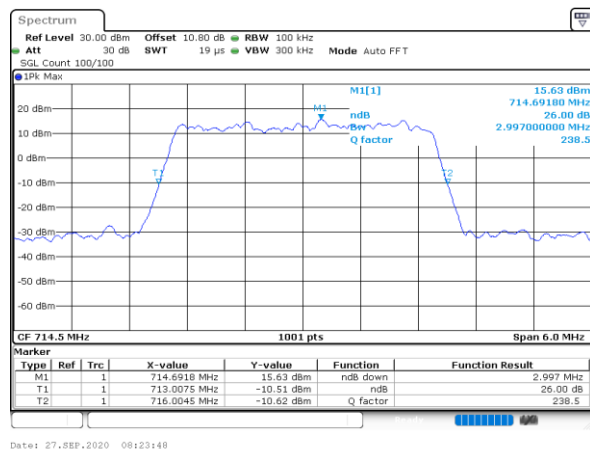
Middle Channel / 3MHz / 64QAM



Highest Channel / 1.4MHz / 64QAM



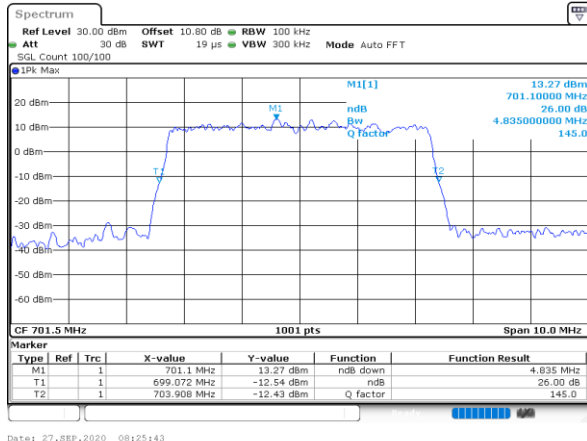
Highest Channel / 3MHz / 64QAM



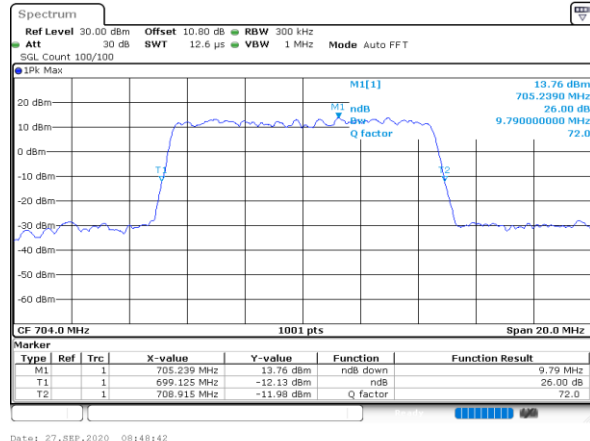


LTE Band 12

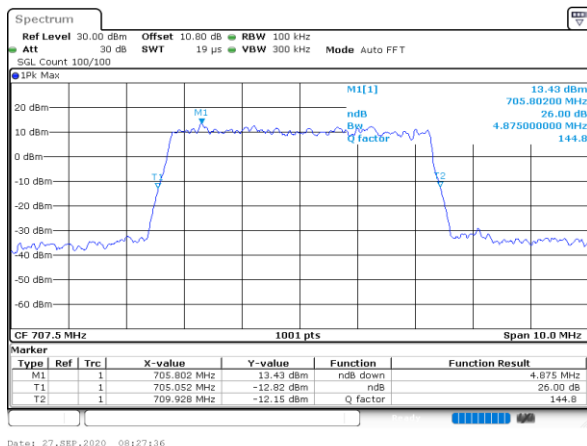
Lowest Channel / 5MHz / 64QAM



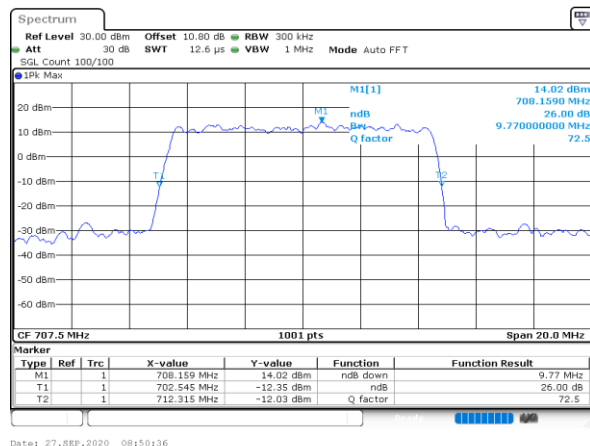
Lowest Channel / 10MHz / 64QAM



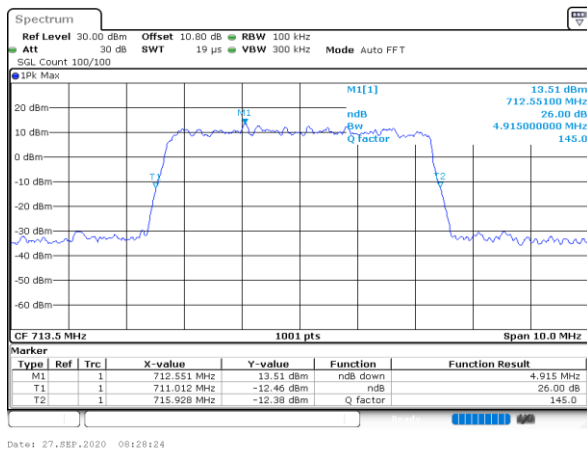
Middle Channel / 5MHz / 64QAM



Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM



Highest Channel / 10MHz / 64QAM

