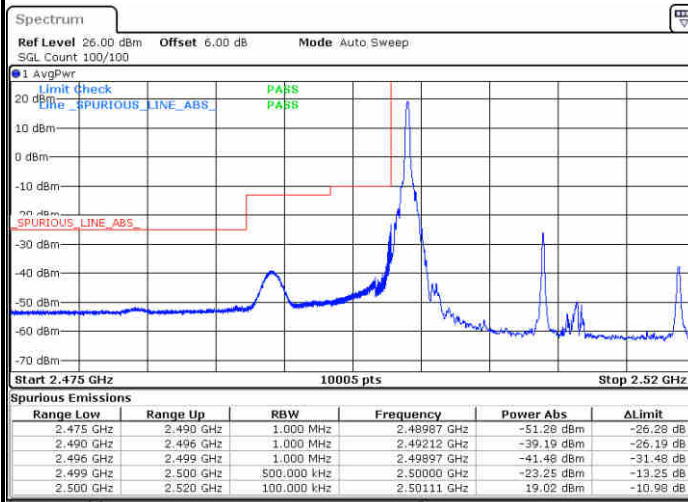


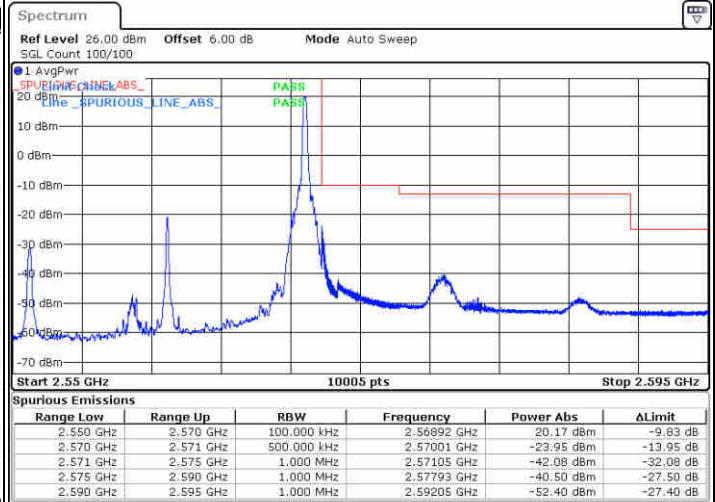


LTE Band 7 / 20MHz / 64QAM

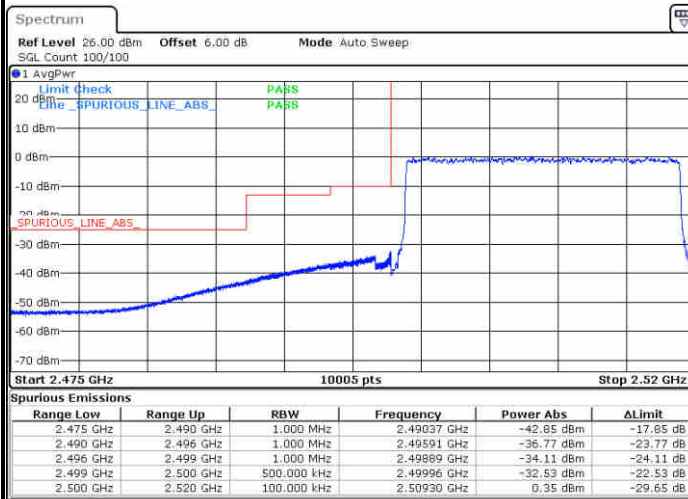
Lowest Band Edge / 1 RB



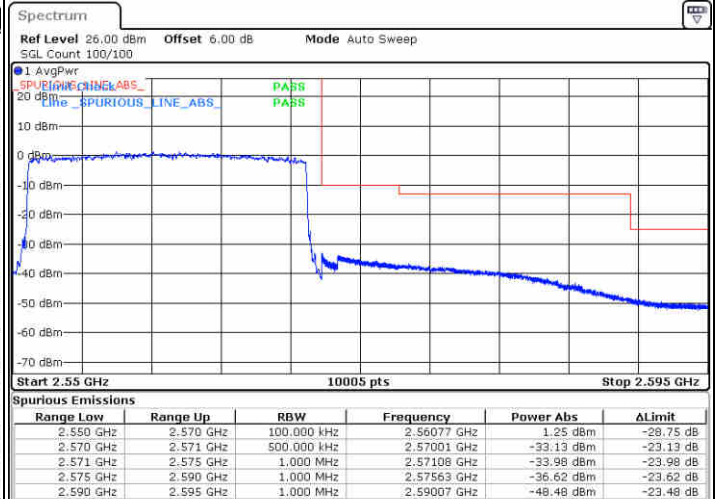
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

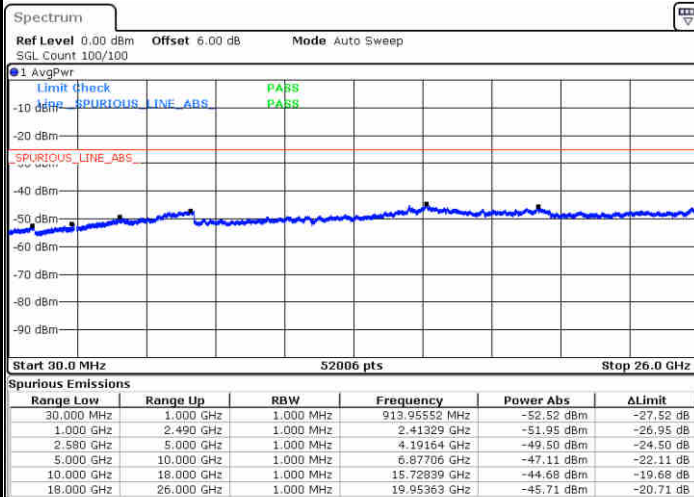




Conducted Spurious Emission

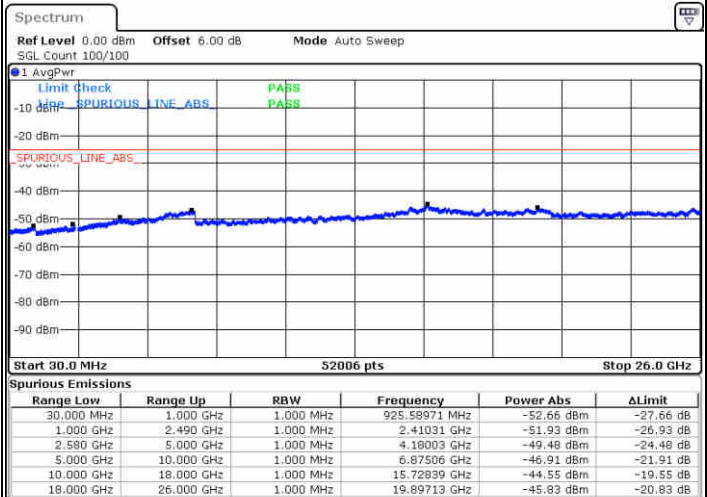
LTE Band 7 / 5MHz

Lowest Channel / QPSK



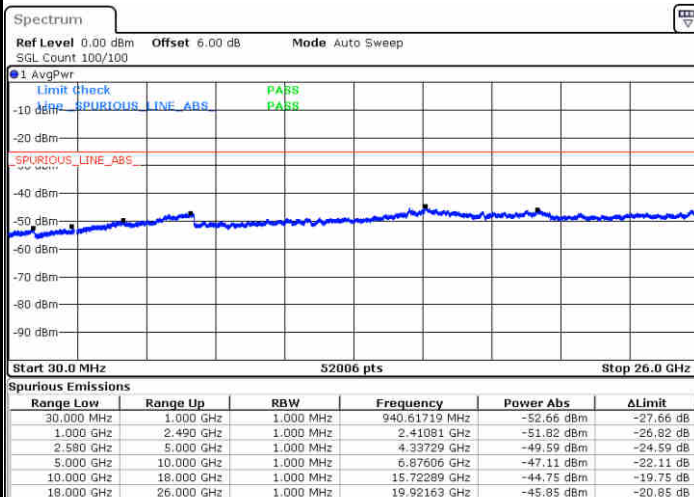
Date: 11 FEB 2020 11:30:03

Lowest Channel / 16QAM



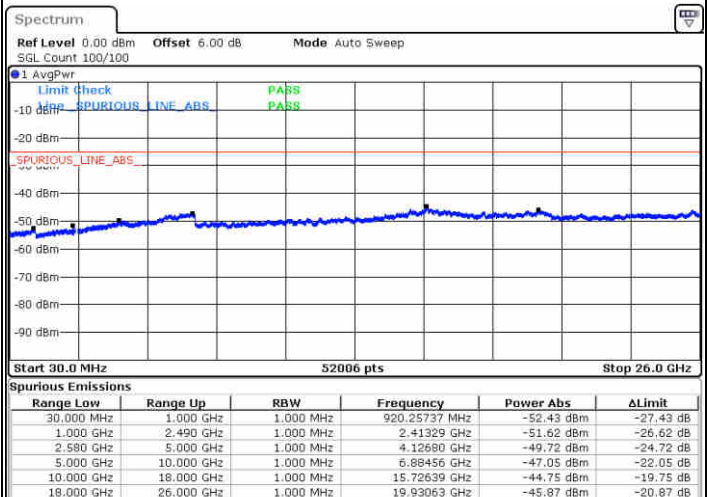
Date: 11 FEB 2020 11:30:59

Middle Channel / QPSK



Date: 11 FEB 2020 11:32:47

Middle Channel / 16QAM

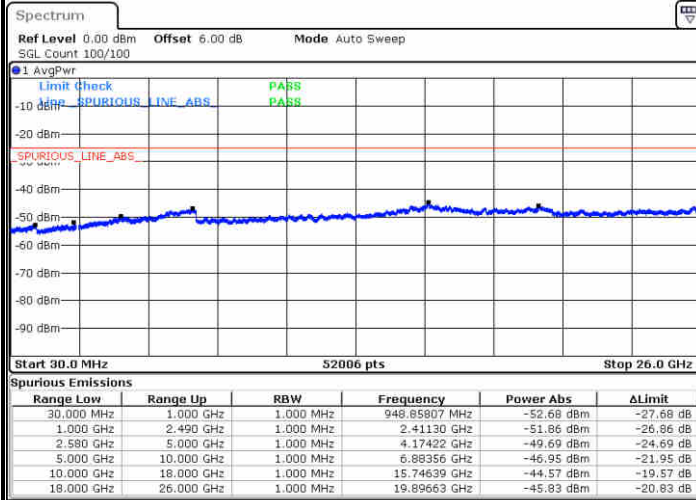


Date: 11 FEB 2020 11:31:53



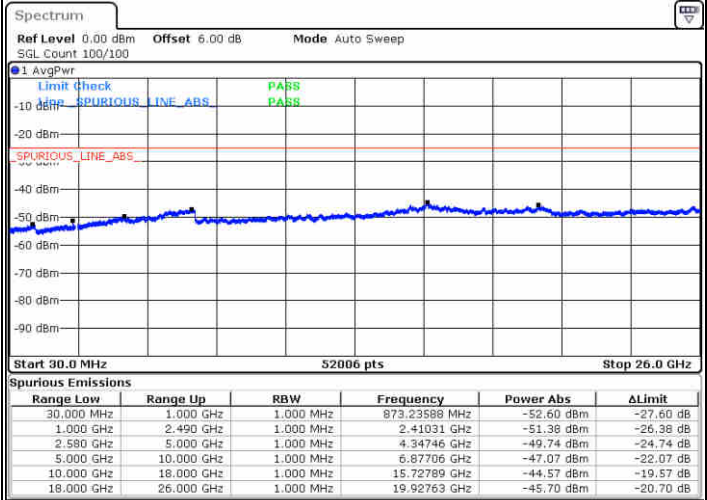
LTE Band 7 / 5MHz

Highest Channel / QPSK



Date: 11 FEB 2020 11:33:40

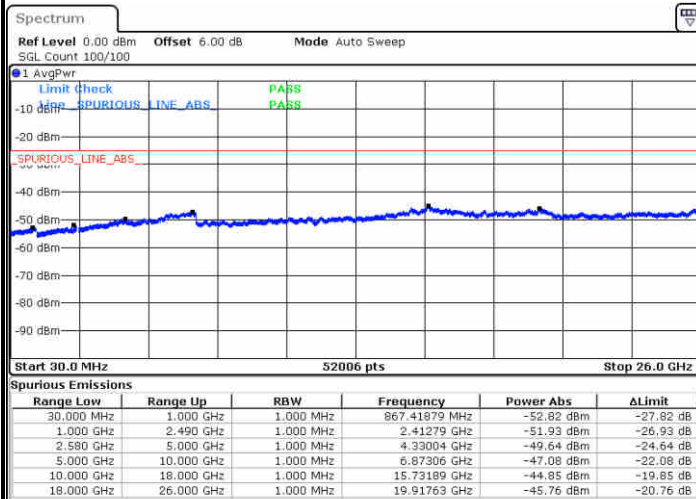
Highest Channel / 16QAM



Date: 11 FEB 2020 11:34:34

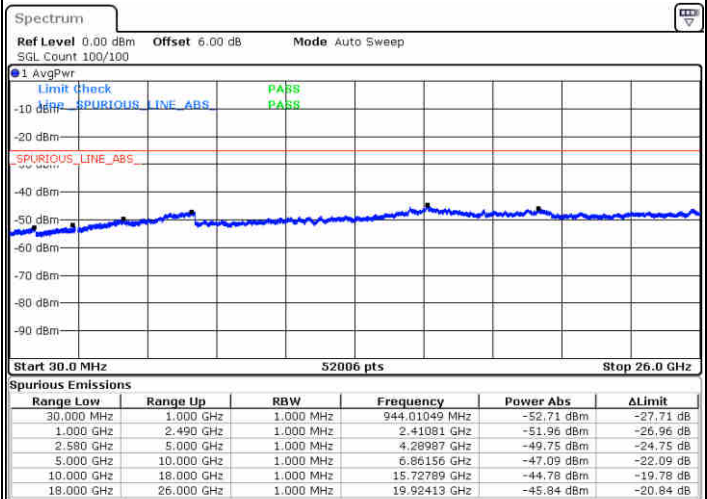
LTE Band 7 / 10MHz

Lowest Channel / QPSK



Date: 11 FEB 2020 11:46:31

Lowest Channel / 16QAM

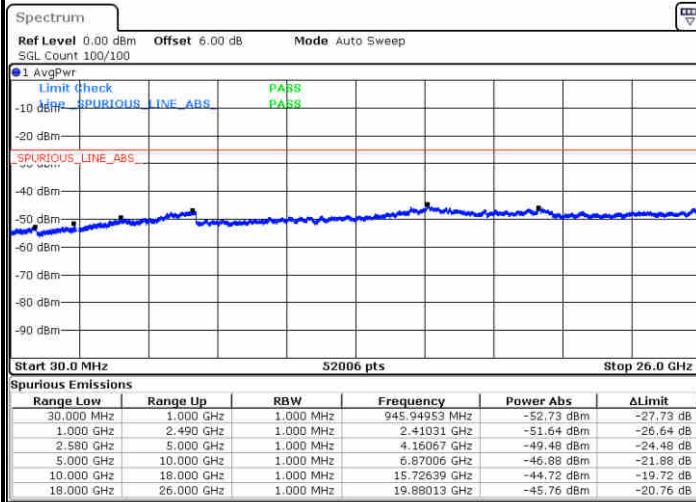


Date: 11 FEB 2020 11:47:24



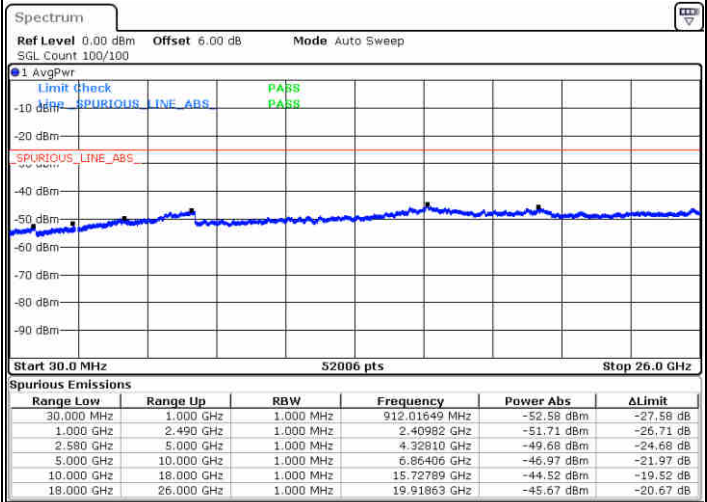
LTE Band 7 / 10MHz

Middle Channel / QPSK



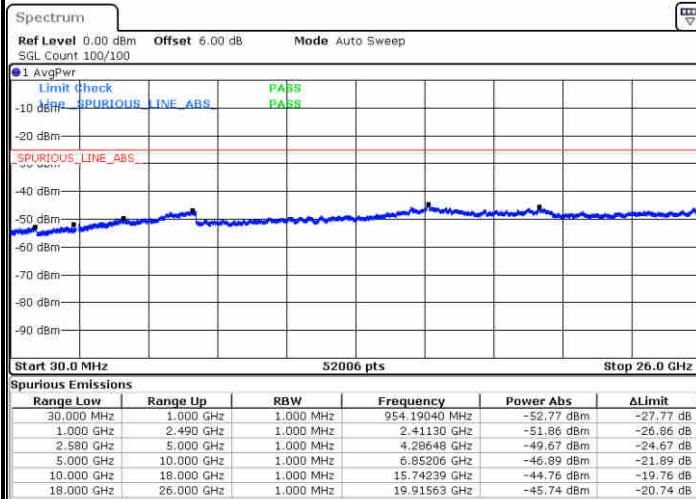
Date: 11 FEB 2020 11:49:12

Middle Channel / 16QAM



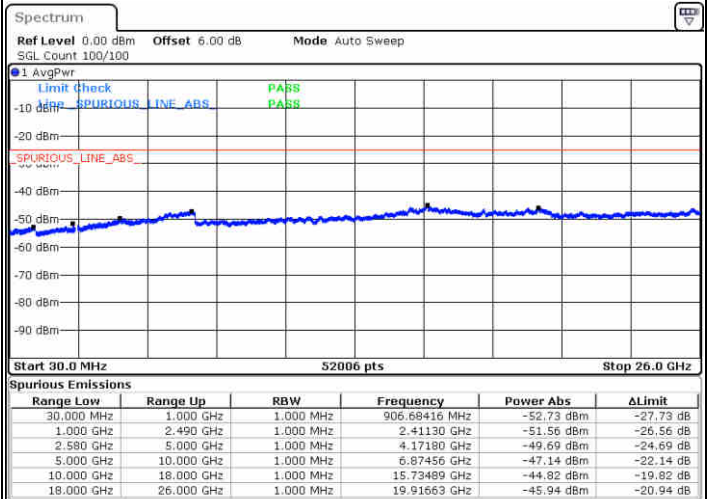
Date: 11 FEB 2020 11:48:18

Highest Channel / QPSK



Date: 11 FEB 2020 11:50:05

Highest Channel / 16QAM

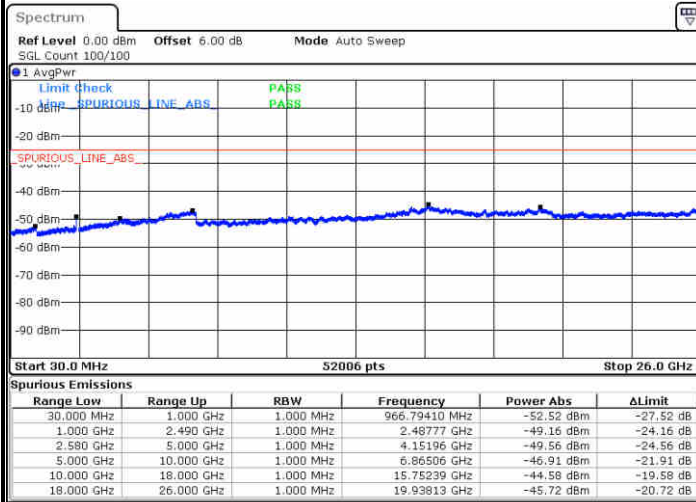


Date: 11 FEB 2020 11:50:59



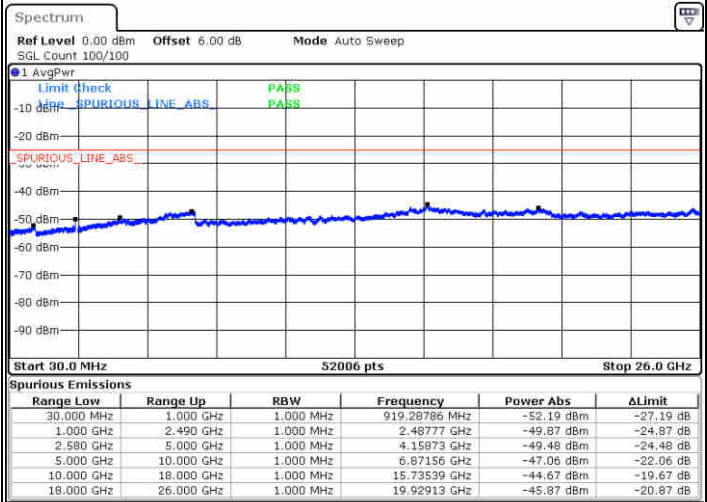
LTE Band 7 / 15MHz

Lowest Channel / QPSK



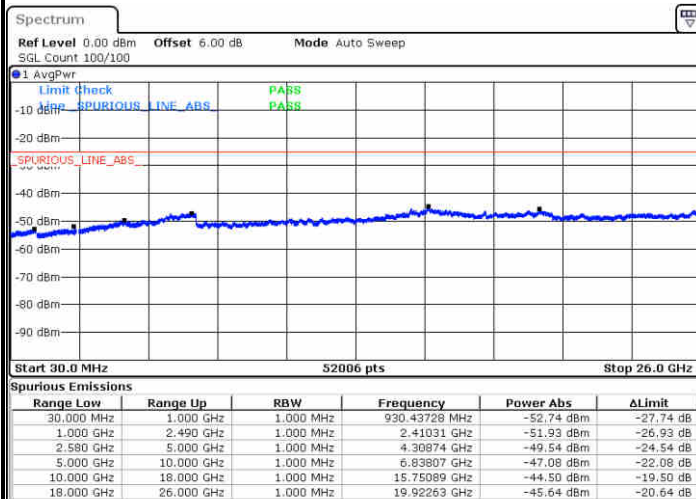
Date: 11 FEB 2020 12:02:57

Lowest Channel / 16QAM



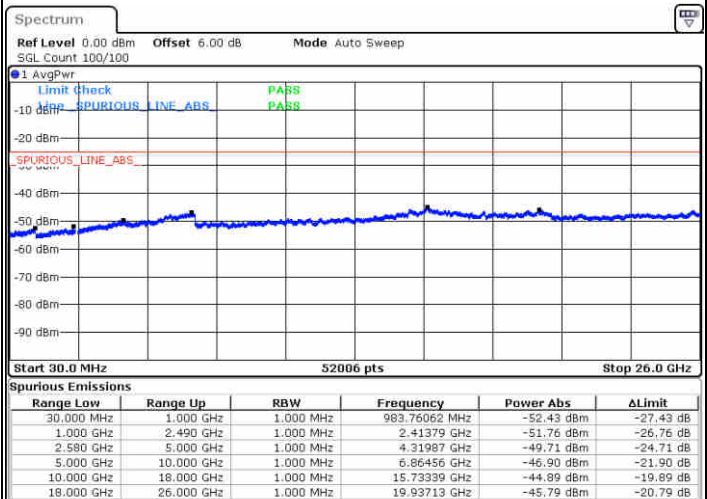
Date: 11 FEB 2020 12:03:51

Middle Channel / QPSK



Date: 11 FEB 2020 12:05:39

Middle Channel / 16QAM

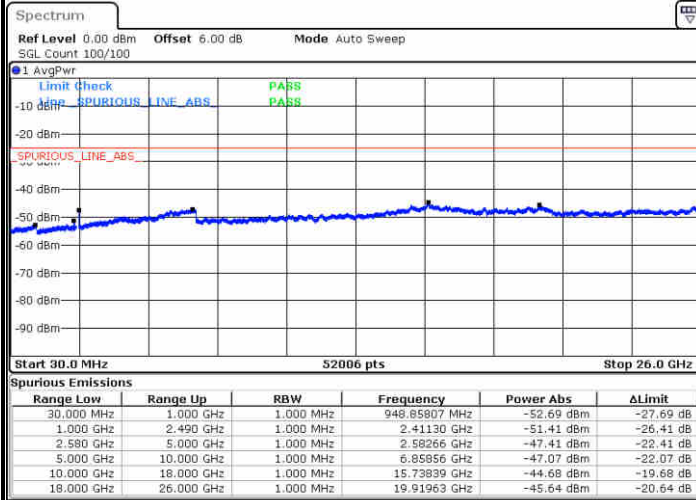


Date: 11 FEB 2020 12:04:45



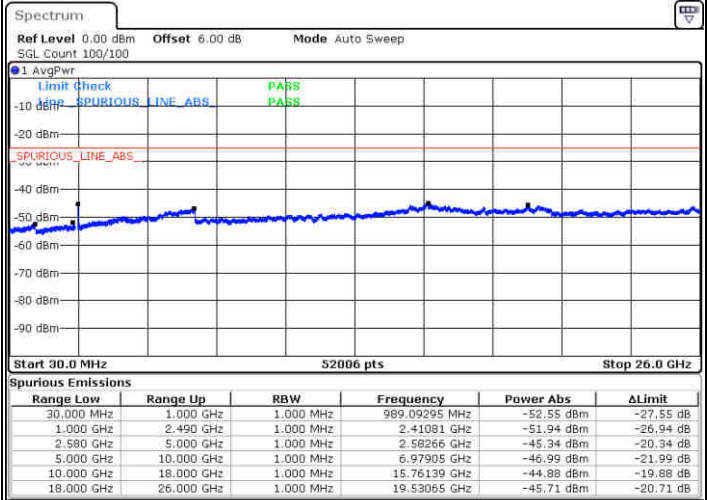
LTE Band7 / 15MHz

Highest Channel / QPSK



Date: 11 FEB 2020 12:06:32

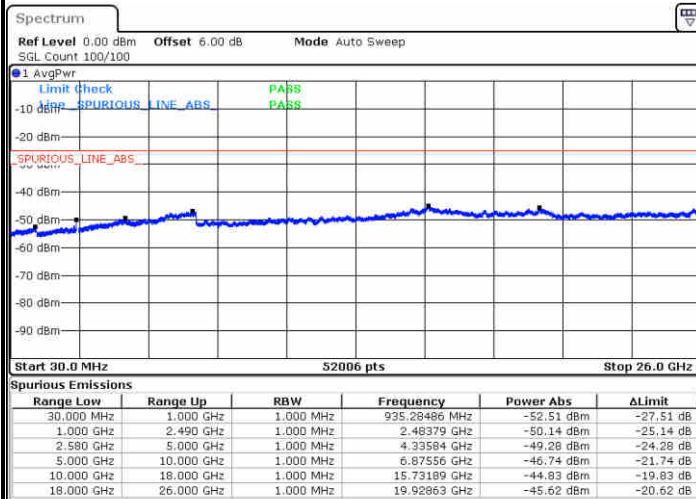
Highest Channel / 16QAM



Date: 11 FEB 2020 12:08:07

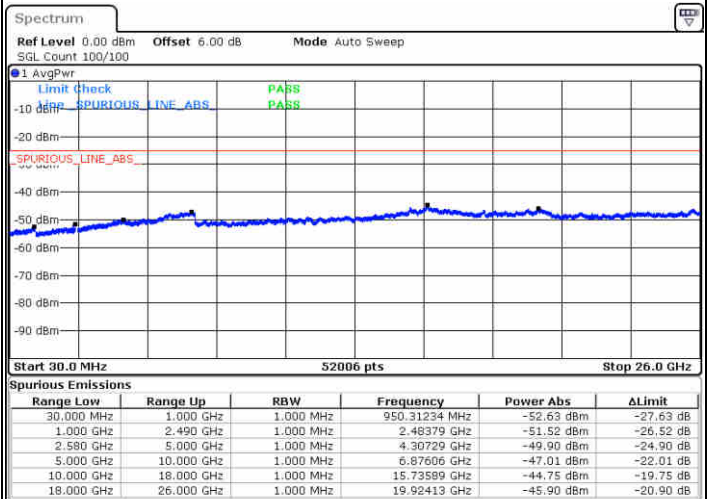
LTE Band 7 / 20MHz

Lowest Channel / QPSK



Date: 11 FEB 2020 12:20:05

Lowest Channel / 16QAM

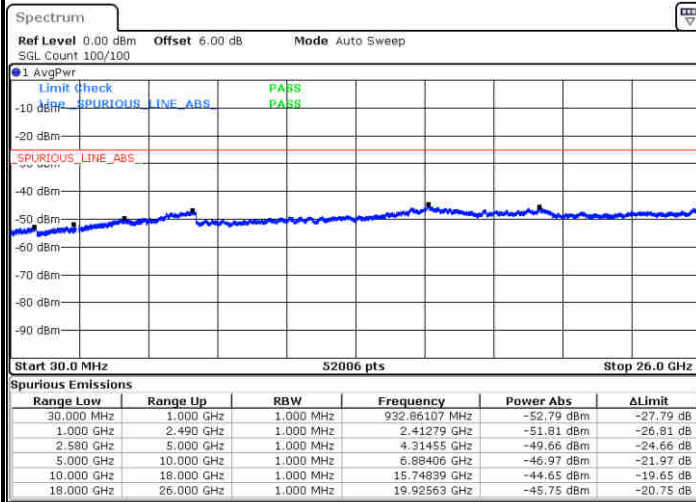


Date: 11 FEB 2020 12:20:59



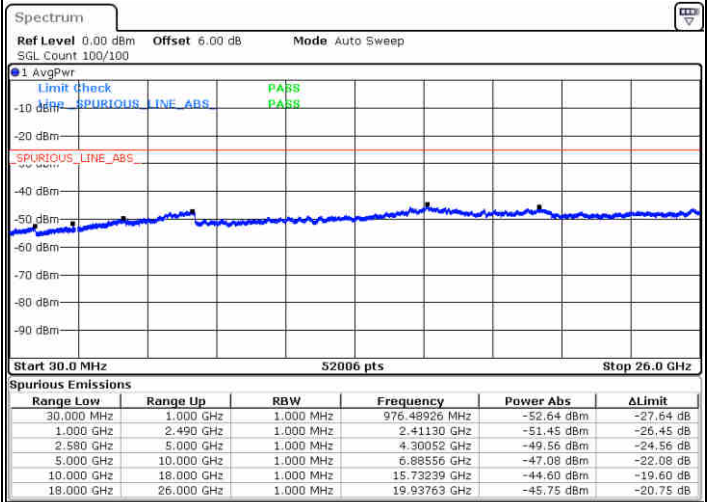
LTE Band 7 / 20MHz

Middle Channel / QPSK



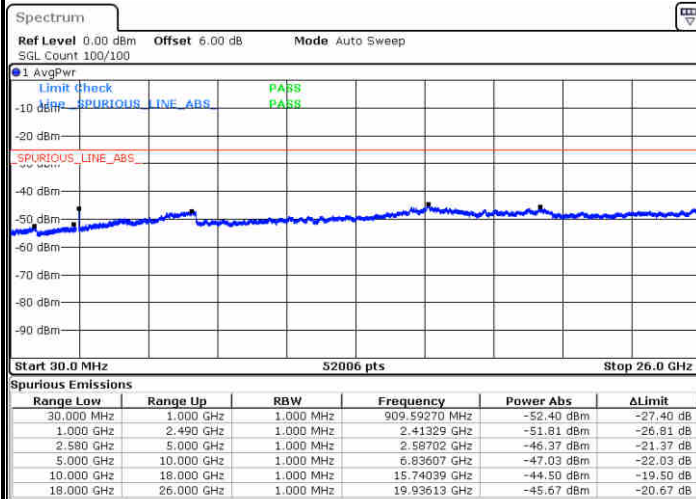
Date: 11 FEB 2020 12:22:47

Middle Channel / 16QAM



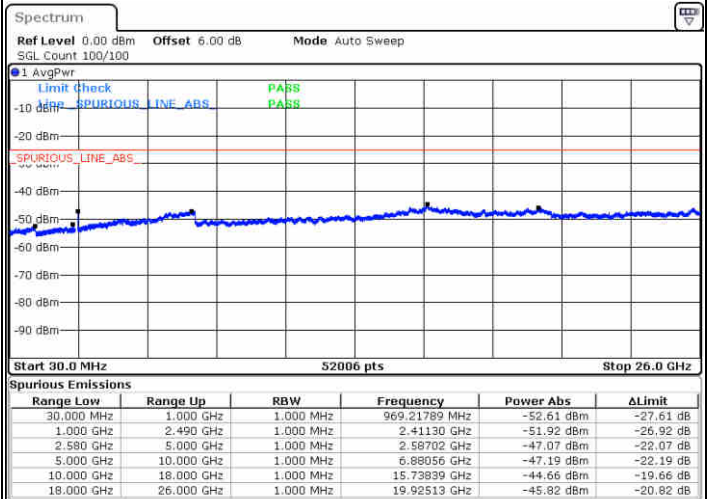
Date: 11 FEB 2020 12:21:53

Highest Channel / QPSK



Date: 11 FEB 2020 12:23:40

Highest Channel / 16QAM

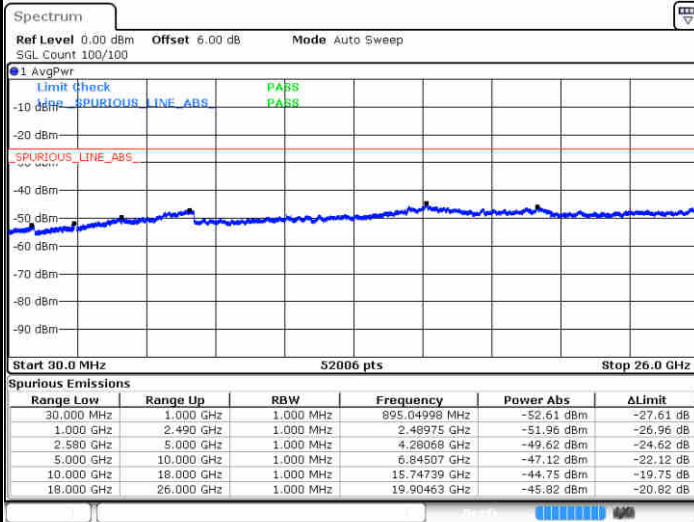


Date: 11 FEB 2020 12:24:34



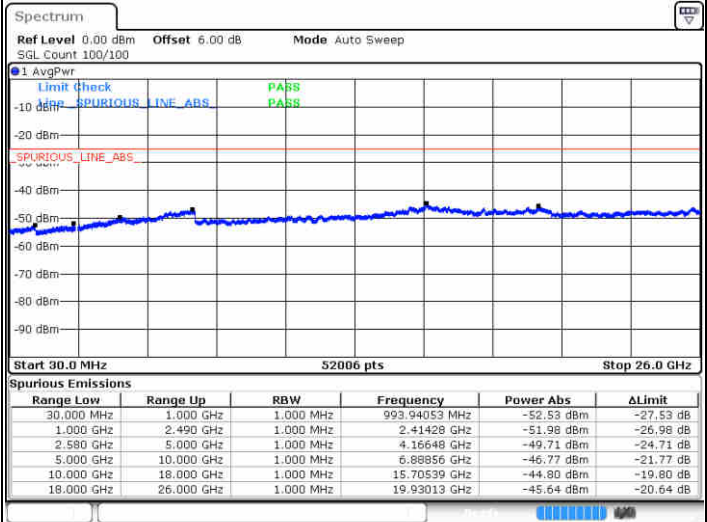
LTE Band 7 / 5MHz

Lowest Channel / 64QAM



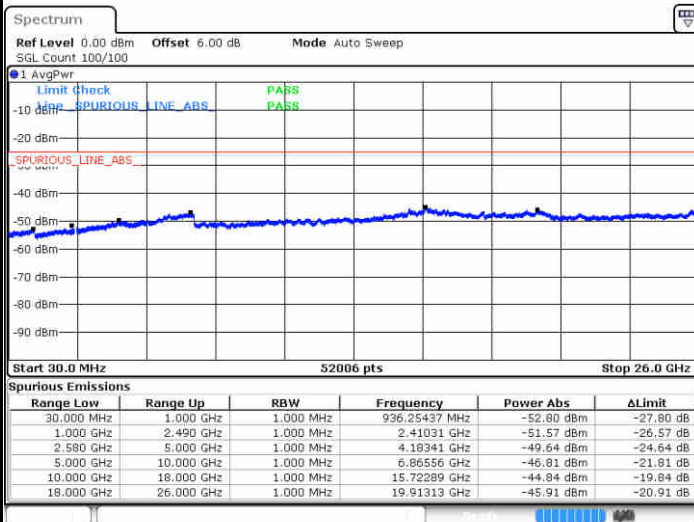
Date: 11 FEB 2020 12:26:27

Middle Channel / 64QAM



Date: 11 FEB 2020 12:27:21

Highest Channel / 64QAM

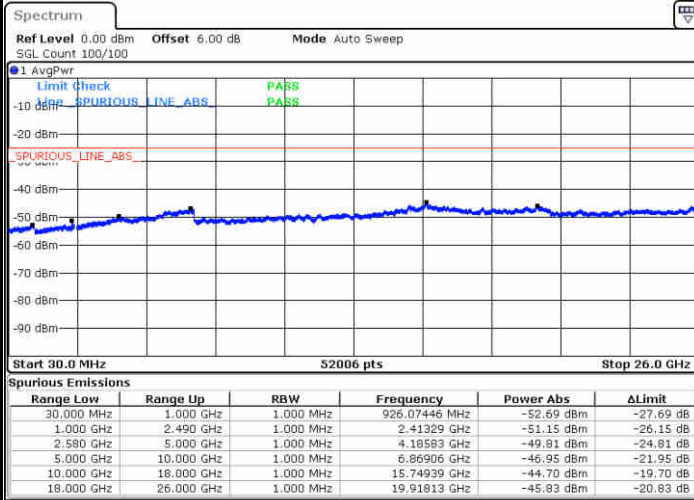


Date: 11 FEB 2020 12:28:15



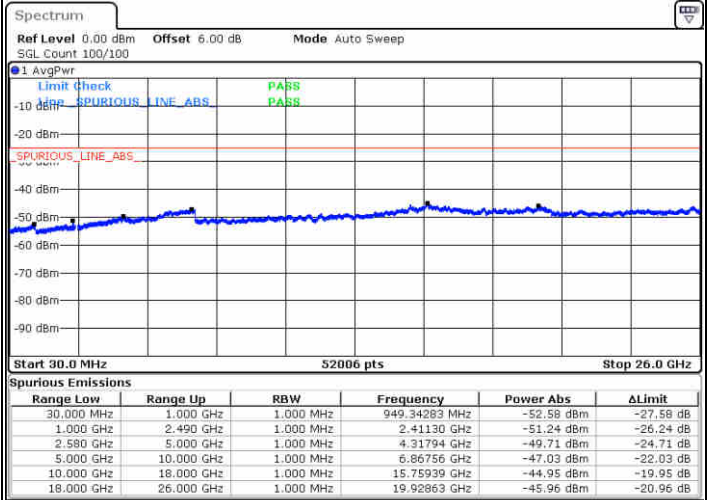
LTE Band 7 / 10MHz

Lowest Channel / 64QAM



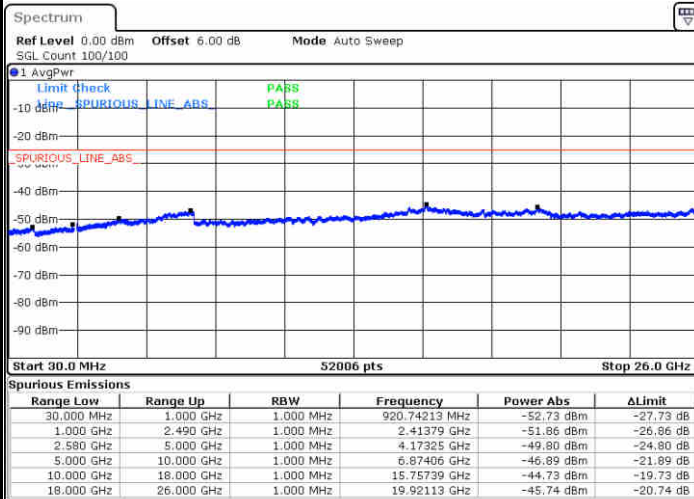
Date: 11 FEB 2020 12:34:41

Middle Channel / 64QAM



Date: 11 FEB 2020 12:35:35

Highest Channel / 64QAM

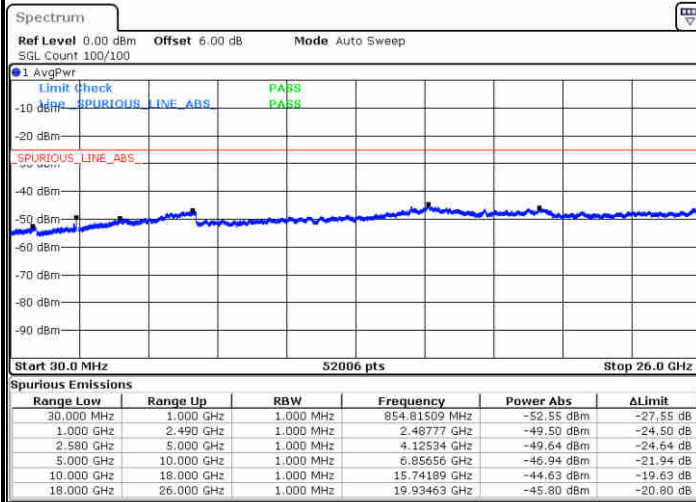


Date: 11 FEB 2020 12:38:29



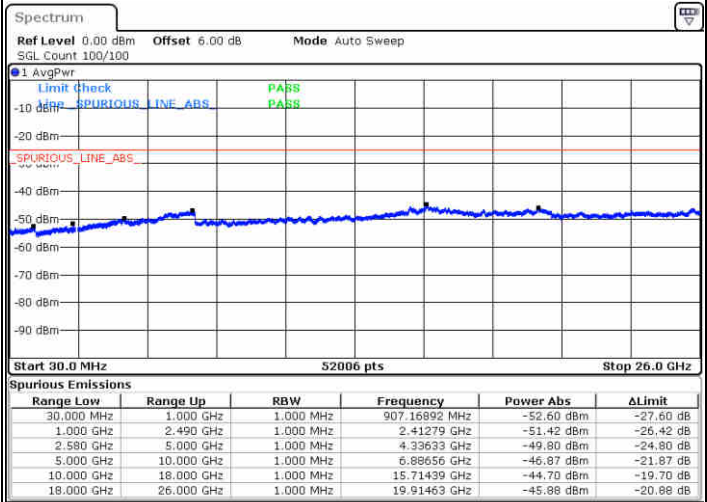
LTE Band 7 / 15MHz

Lowest Channel / 64QAM



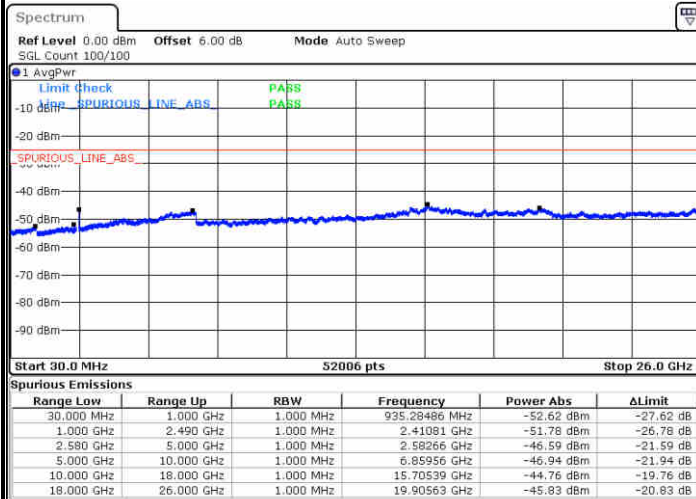
Date: 11 FEB 2020 12:47:27

Middle Channel / 64QAM



Date: 11 FEB 2020 12:48:21

Highest Channel / 64QAM

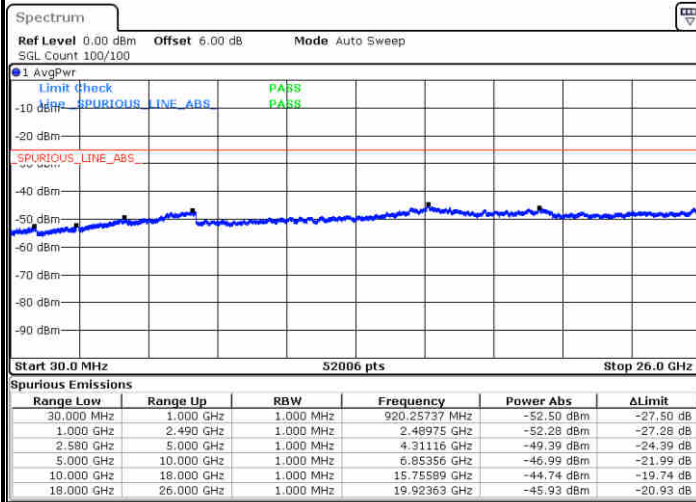


Date: 11 FEB 2020 12:49:14



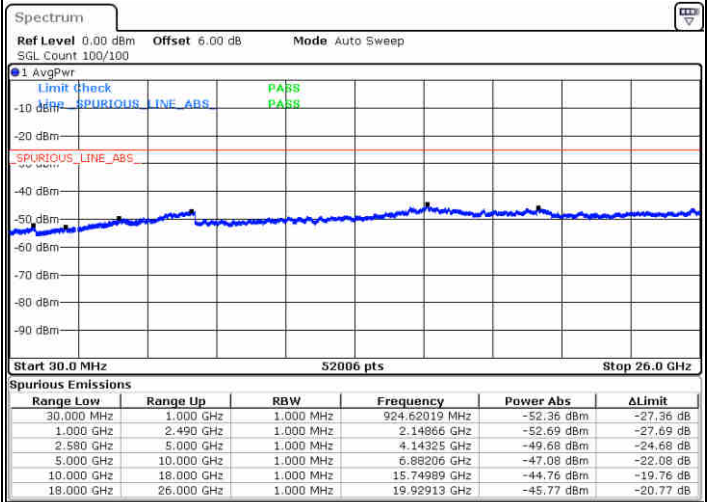
LTE Band 7 / 20MHz

Lowest Channel / 64QAM



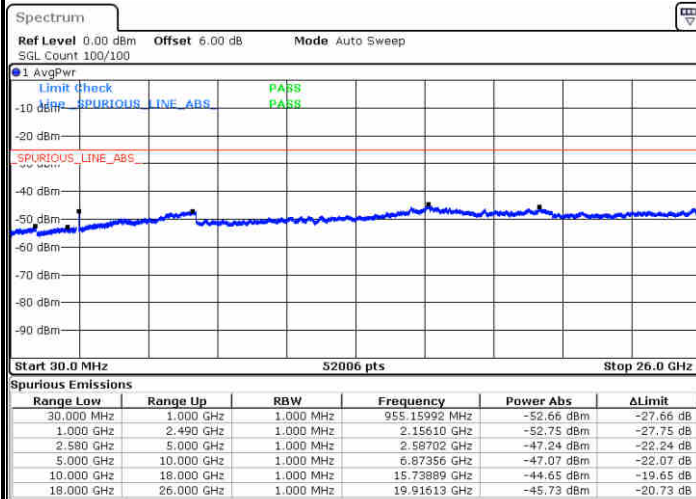
Date: 11 FEB 2020 12:55:40

Middle Channel / 64QAM



Date: 11 FEB 2020 12:56:34

Highest Channel / 64QAM



Date: 11 FEB 2020 12:57:28

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	0.0042	PASS
40	Normal Voltage	0.0056	
30	Normal Voltage	0.0028	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0017	
0	Normal Voltage	0.0030	
-10	Normal Voltage	0.0002	
-20	Normal Voltage	0.0004	
-30	Normal Voltage	0.0022	
20	Maximum Voltage	0.0006	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0025	

Note:

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



LTE Band 66

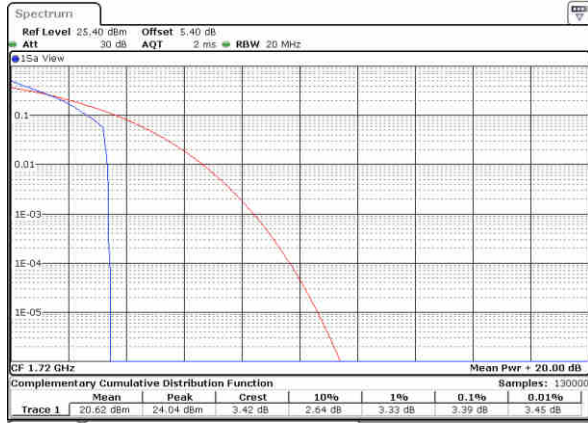
Peak-to-Average Ratio

Mode	LTE Band 66 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.39	4.46	4.67	5.80	PASS
Middle CH	3.83	4.55	5.65	5.88	
Highest CH	3.74	4.75	5.07	6.03	
Mode	LTE Band 66 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	4.87	5.80			PASS
Middle CH	5.51	5.88			
Highest CH	5.48	6.00			

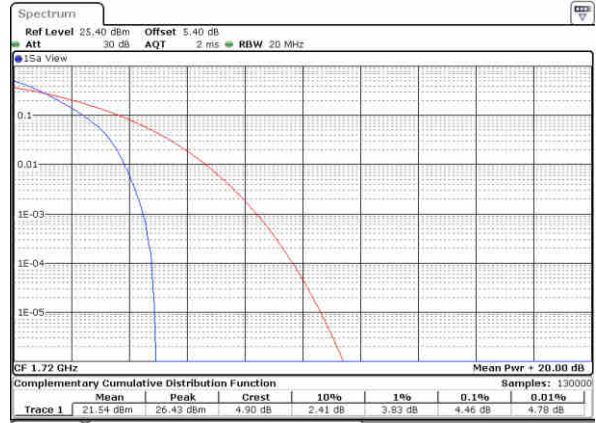


LTE Band 66 / 20MHz / QPSK

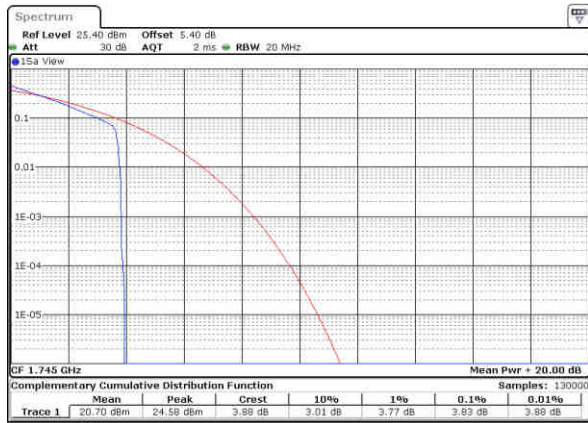
Lowest Channel / 1RB



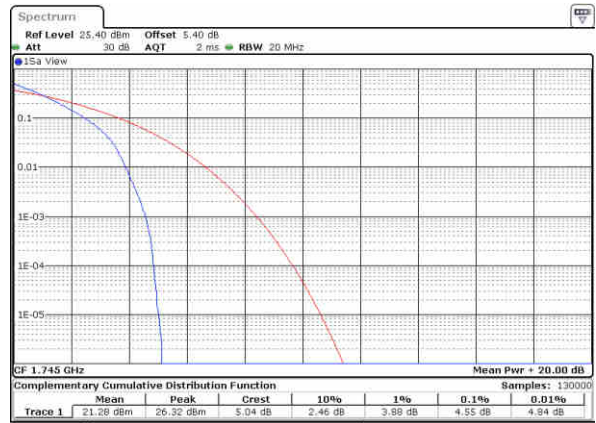
Lowest Channel / Full RB



Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



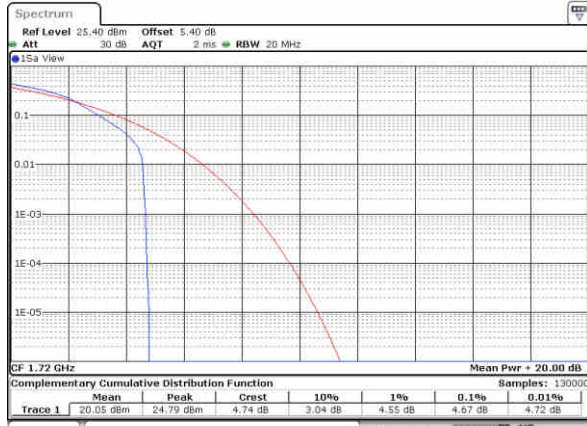
Highest Channel / Full RB



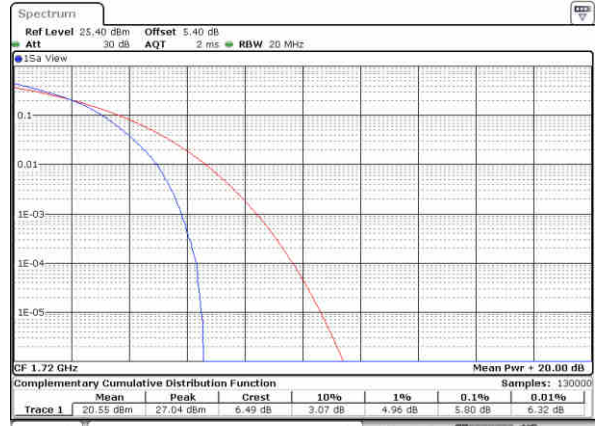


LTE Band 66 / 20MHz / 16QAM

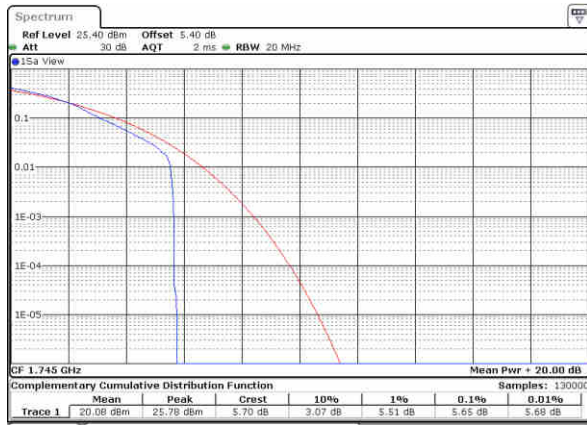
Lowest Channel / 1RB



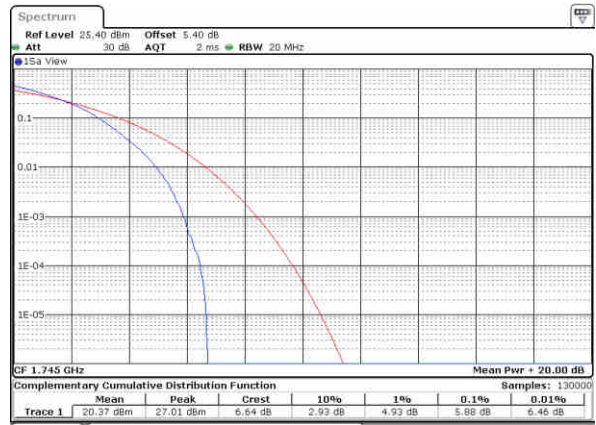
Lowest Channel / Full RB



Middle Channel / 1RB



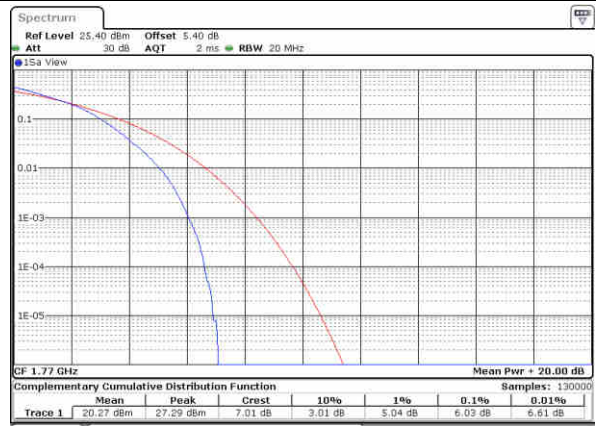
Middle Channel / Full RB



Highest Channel / 1RB



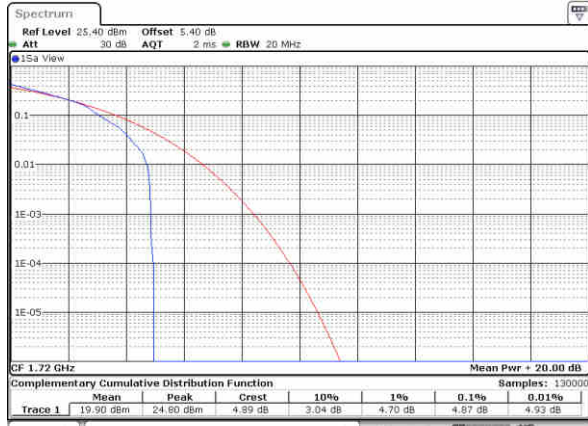
Highest Channel / Full RB



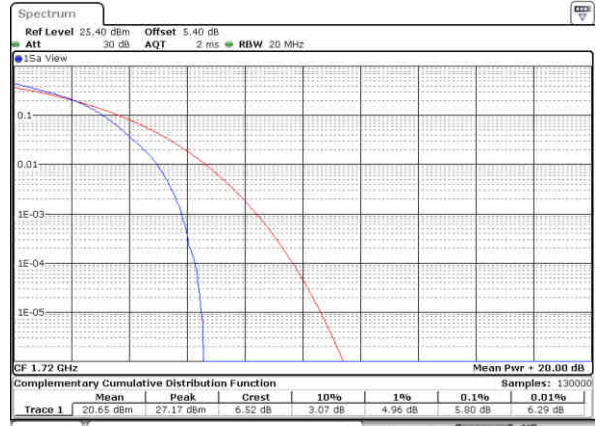


LTE Band 66 / 20MHz / 64QAM

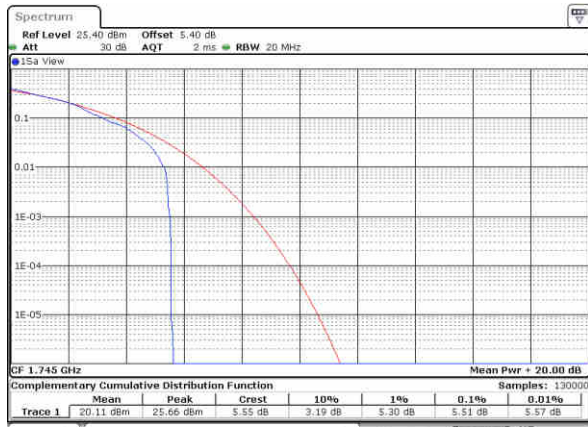
Lowest Channel / 1RB



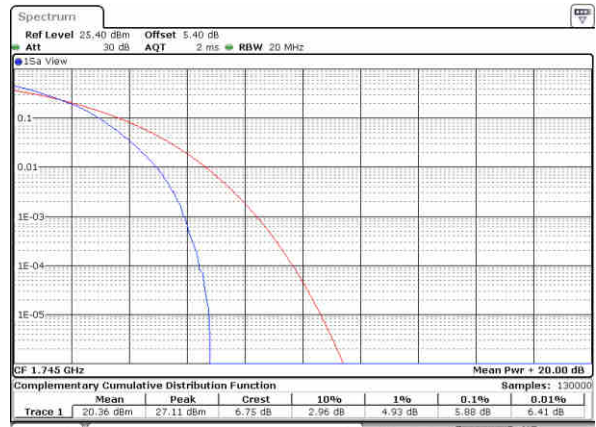
Lowest Channel / Full RB



Middle Channel / 1RB



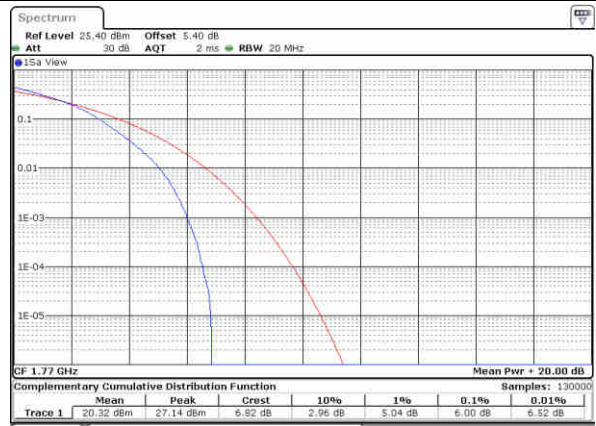
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB



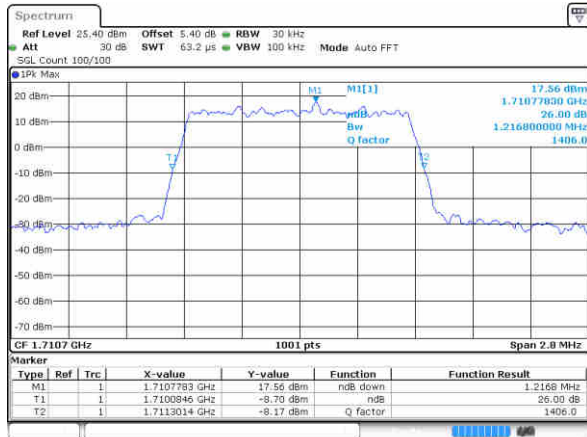
**26dB Bandwidth**

Mode	LTE Band 66 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.217	1.214	3.033	3.027	4.955	4.895	9.71	9.67	14.356	14.446	20.10	20.18
Middle CH	1.228	1.225	3.087	3.027	4.885	4.905	9.87	9.69	14.715	14.476	20.46	20.14
Highest CH	1.242	1.231	2.991	2.967	4.975	4.885	9.81	9.73	14.386	14.296	20.34	20.34
Mode	LTE Band 66 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.245		3.003		4.935		9.65		14.296		20.26	
Middle CH	1.217		3.009		4.885		9.77		14.476		20.10	
Highest CH	1.239		3.015		4.905		9.79		14.505		20.14	



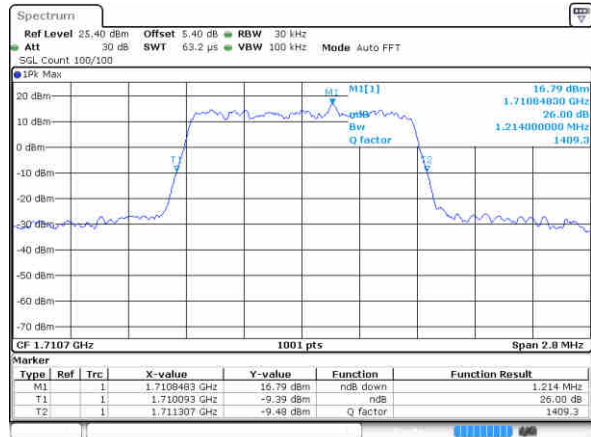
LTE Band 66

Lowest Channel / 1.4MHz / QPSK



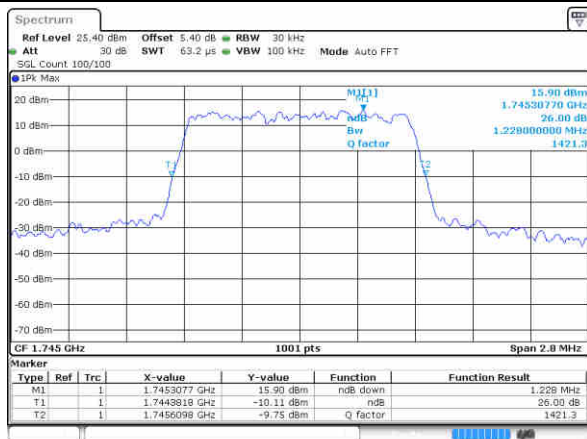
Date: 12 FEB 2020 20:06:44

Lowest Channel / 1.4MHz / 16QAM



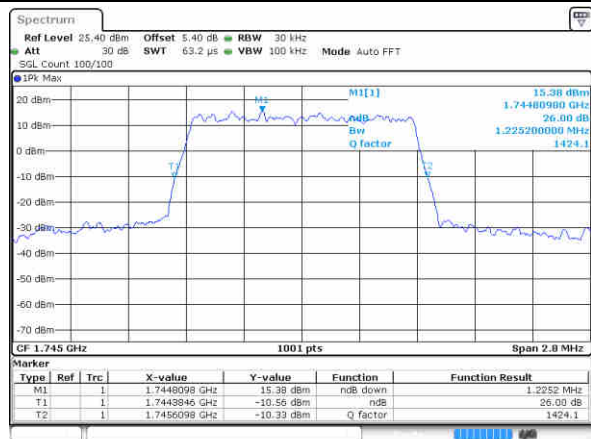
Date: 12 FEB 2020 20:07:03

Middle Channel / 1.4MHz / QPSK



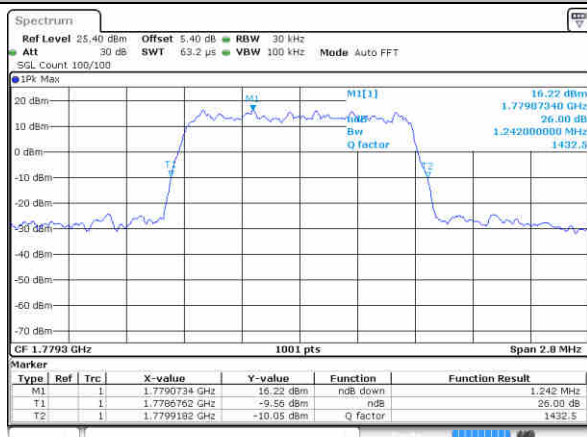
Date: 12 FEB 2020 20:08:48

Middle Channel / 1.4MHz / 16QAM



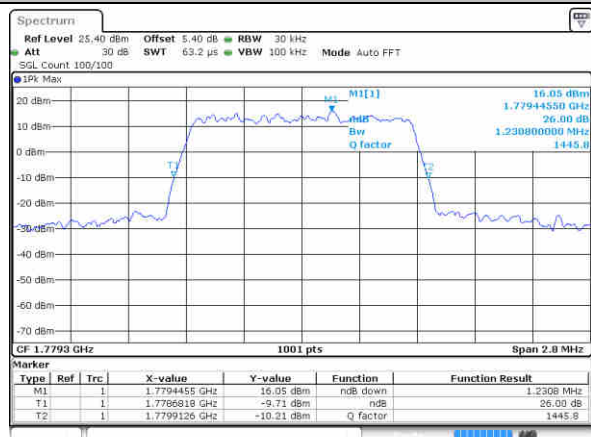
Date: 12 FEB 2020 20:08:33

Highest Channel / 1.4MHz / QPSK



Date: 12 FEB 2020 20:09:21

Highest Channel / 1.4MHz / 16QAM

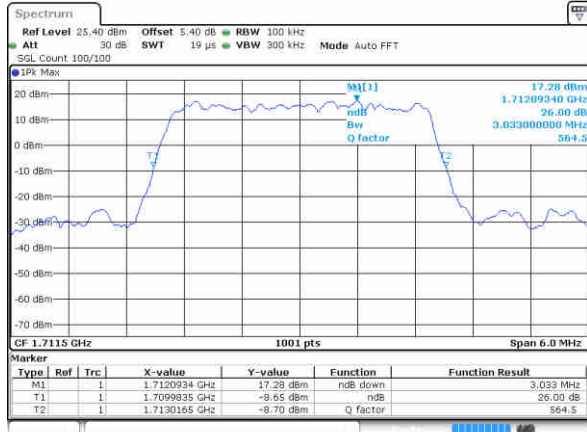


Date: 12 FEB 2020 20:09:33



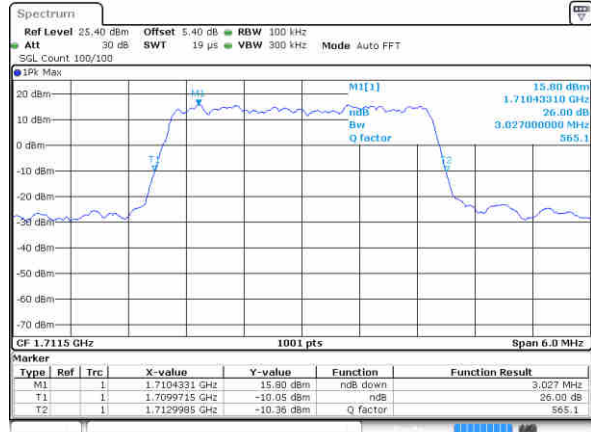
LTE Band 66

Lowest Channel / 3MHz / QPSK



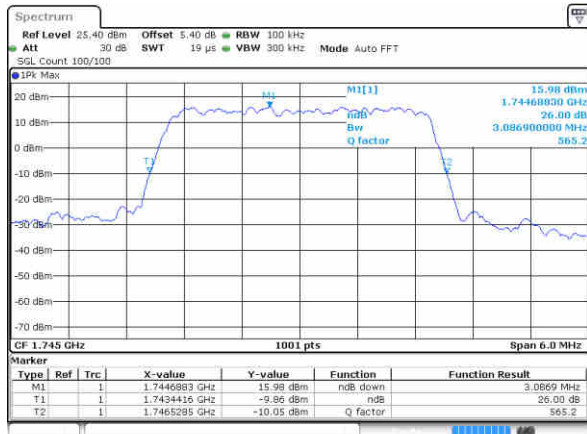
Date: 12 FEB 2020 21:09:43

Lowest Channel / 3MHz / 16QAM



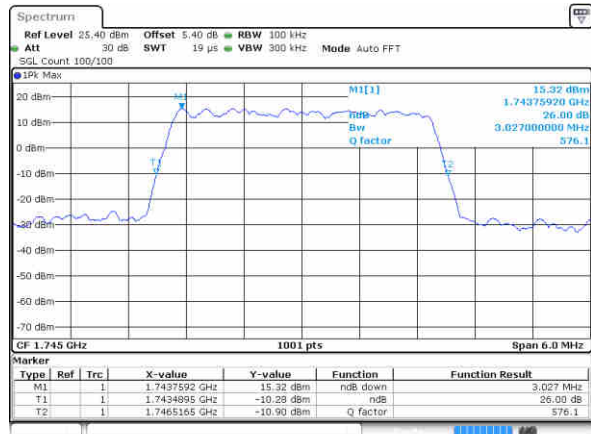
Date: 12 FEB 2020 21:10:11

Middle Channel / 3MHz / QPSK



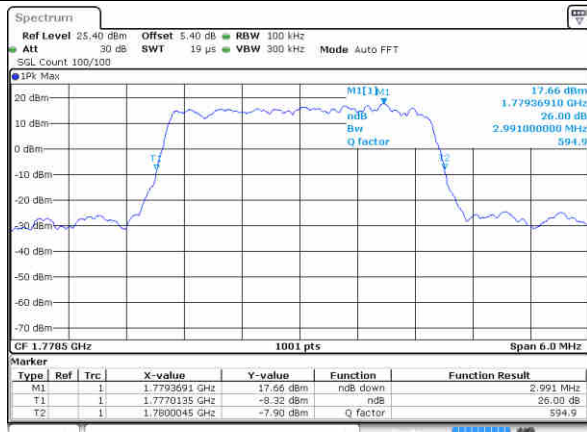
Date: 12 FEB 2020 21:11:11

Middle Channel / 3MHz / 16QAM



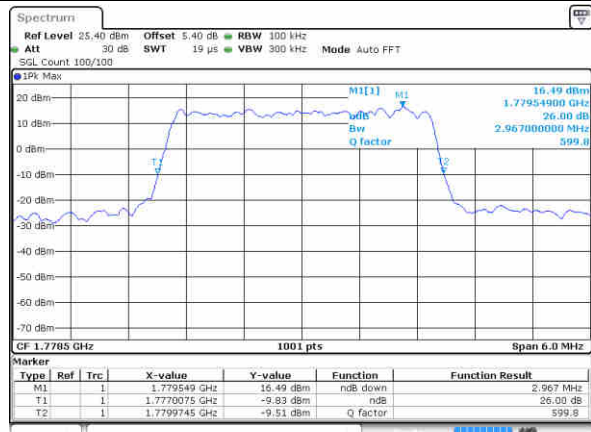
Date: 12 FEB 2020 21:11:30

Highest Channel / 3MHz / QPSK



Date: 12 FEB 2020 21:12:31

Highest Channel / 3MHz / 16QAM

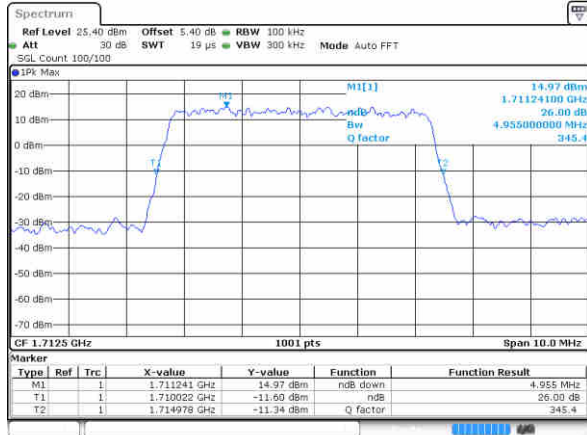


Date: 12 FEB 2020 21:12:50



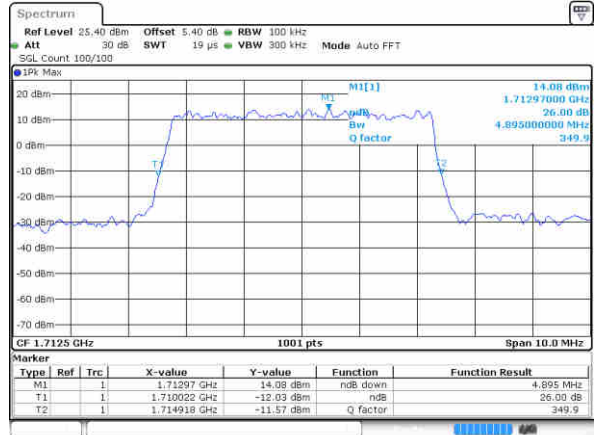
LTE Band 66

Lowest Channel / 5MHz / QPSK



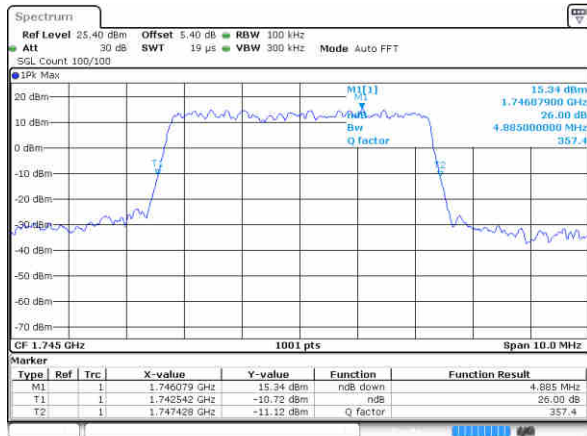
Date: 12 FEB 2020 22:06:08

Lowest Channel / 5MHz / 16QAM



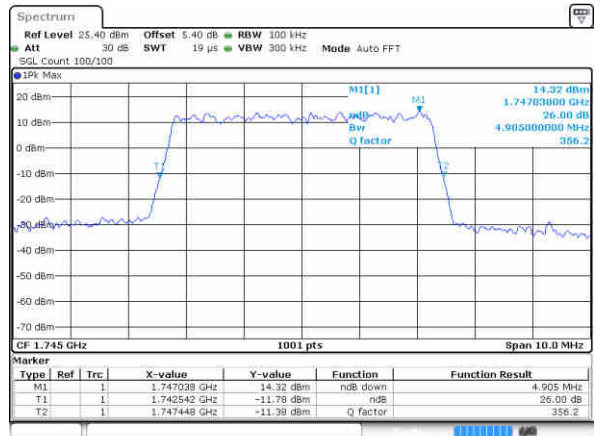
Date: 12 FEB 2020 22:06:56

Middle Channel / 5MHz / QPSK



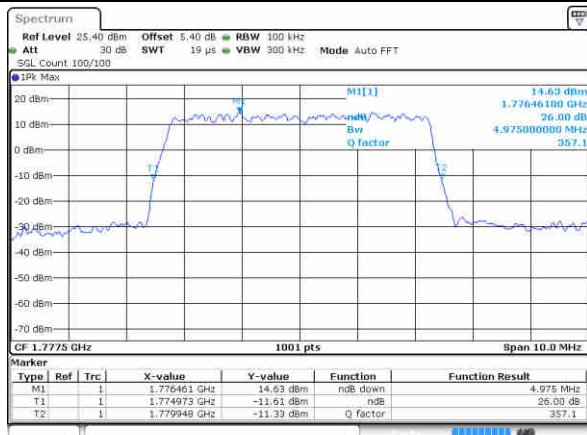
Date: 12 FEB 2020 22:08:09

Middle Channel / 5MHz / 16QAM



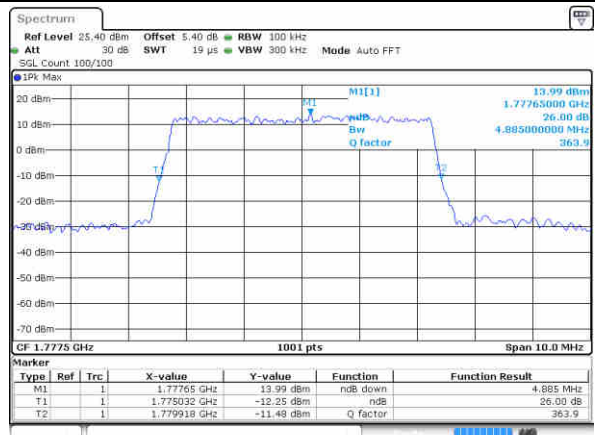
Date: 12 FEB 2020 22:08:27

Highest Channel / 5MHz / QPSK



Date: 12 FEB 2020 22:09:23

Highest Channel / 5MHz / 16QAM

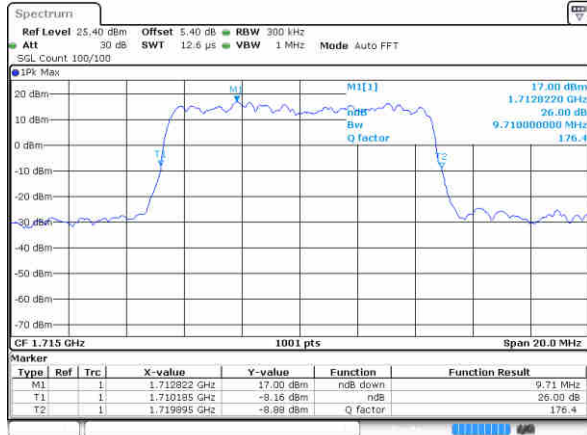


Date: 12 FEB 2020 22:09:41



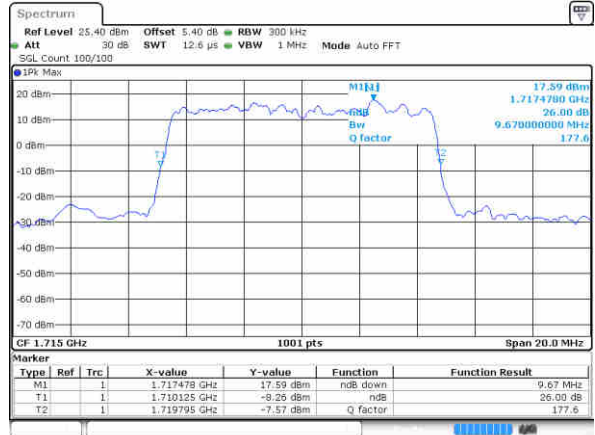
LTE Band 66

Lowest Channel / 10MHz / QPSK



Date: 12 FEB 2020 22:30:14

Lowest Channel / 10MHz / 16QAM



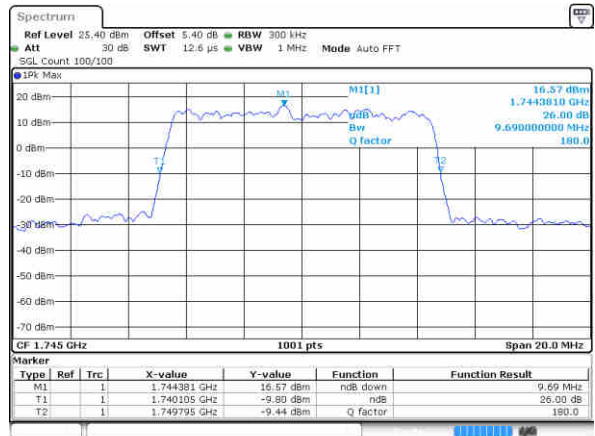
Date: 12 FEB 2020 22:30:32

Middle Channel / 10MHz / QPSK



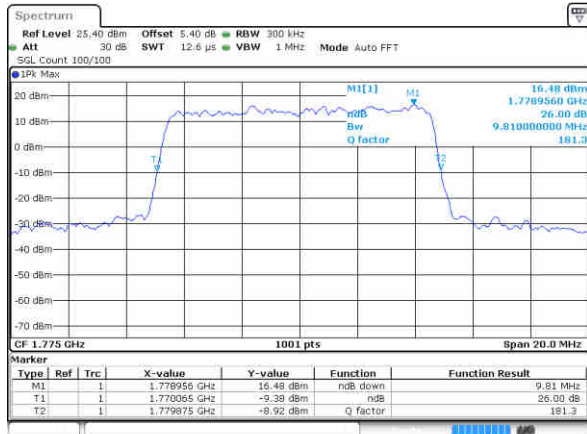
Date: 12 FEB 2020 22:31:29

Middle Channel / 10MHz / 16QAM



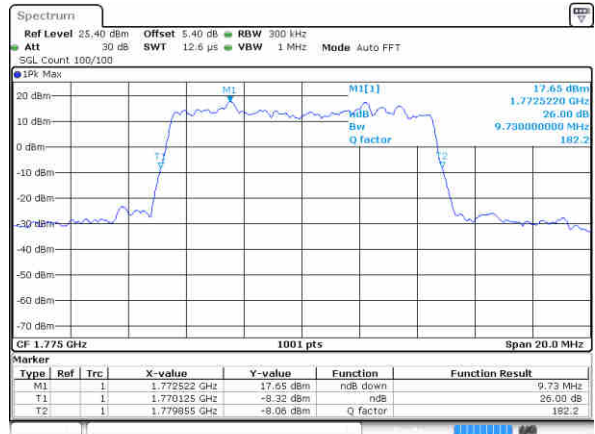
Date: 12 FEB 2020 22:31:47

Highest Channel / 10MHz / QPSK



Date: 12 FEB 2020 22:33:01

Highest Channel / 10MHz / 16QAM

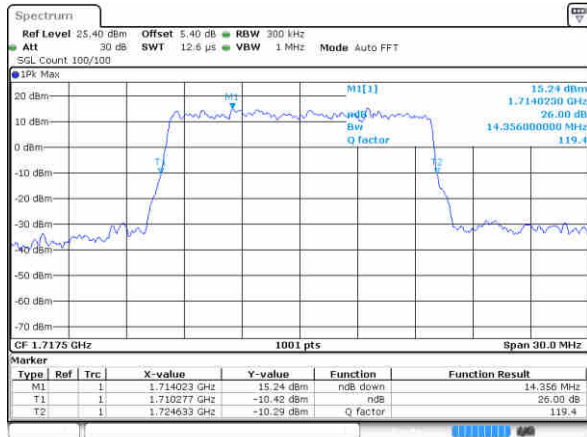


Date: 12 FEB 2020 22:33:22

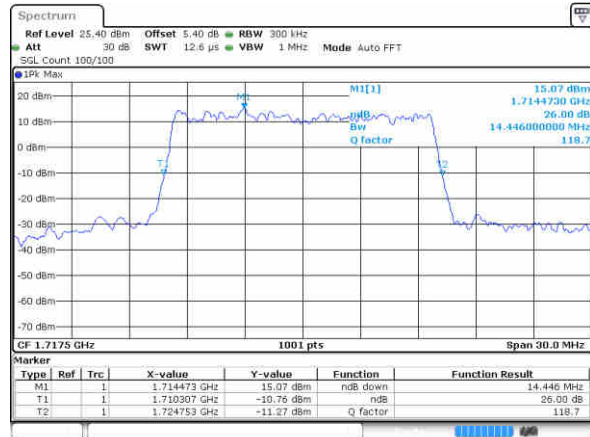


LTE Band 66

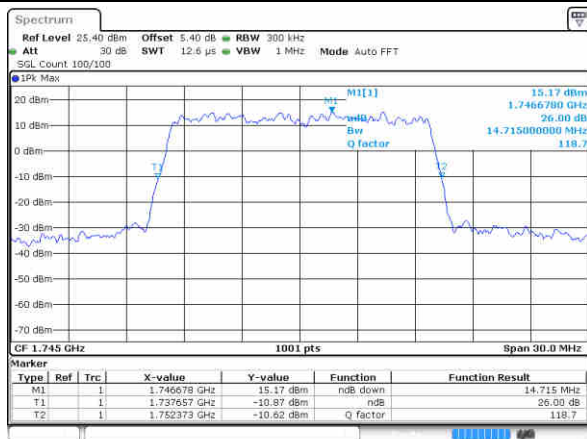
Lowest Channel / 15MHz / QPSK



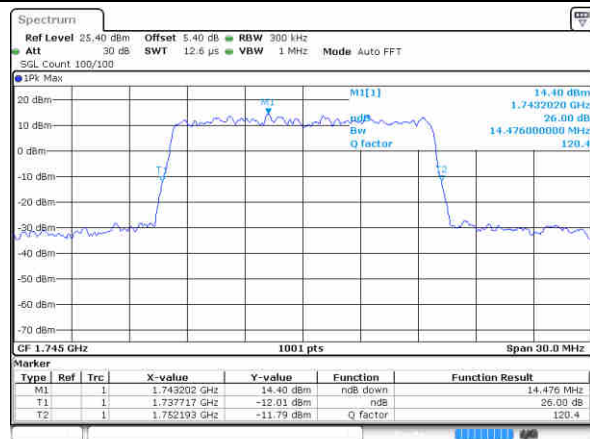
Lowest Channel / 15MHz / 16QAM



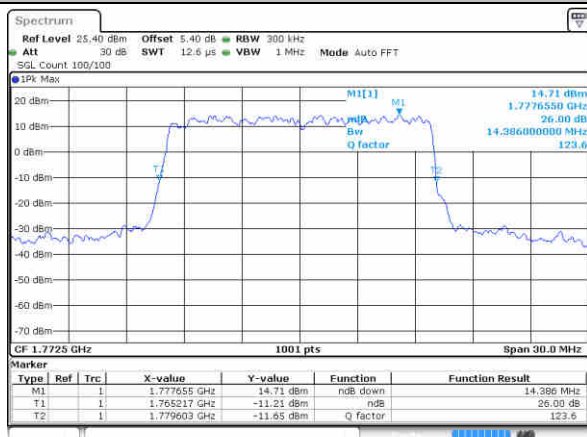
Middle Channel / 15MHz / QPSK



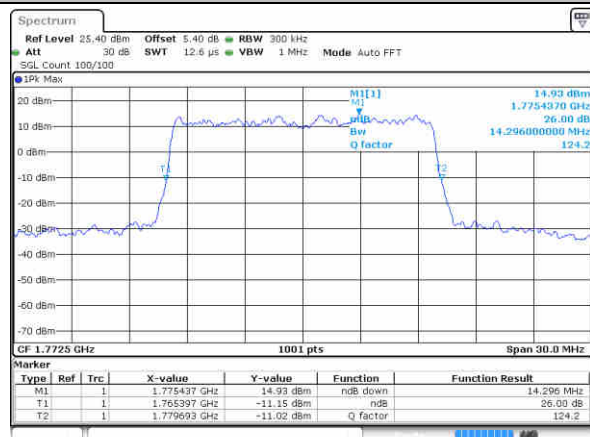
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK



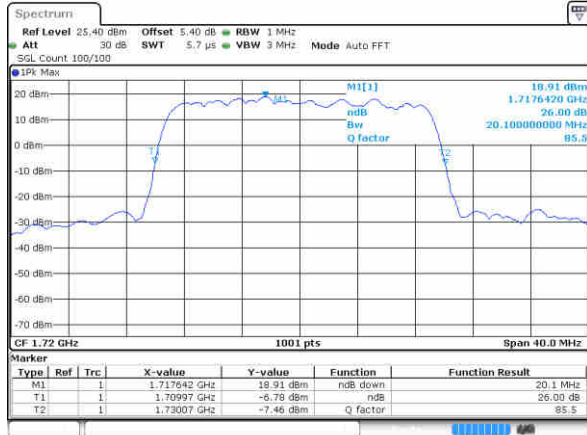
Highest Channel / 15MHz / 16QAM



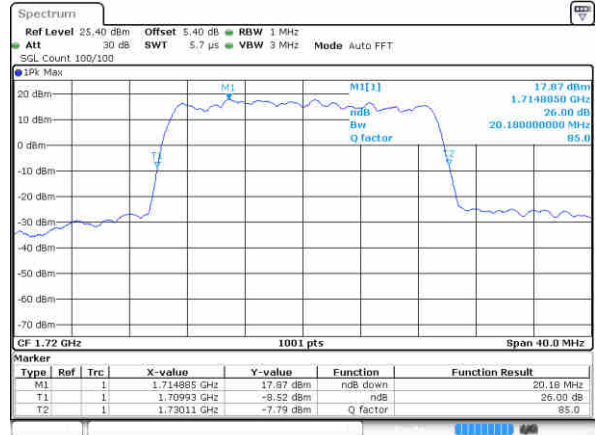


LTE Band 66

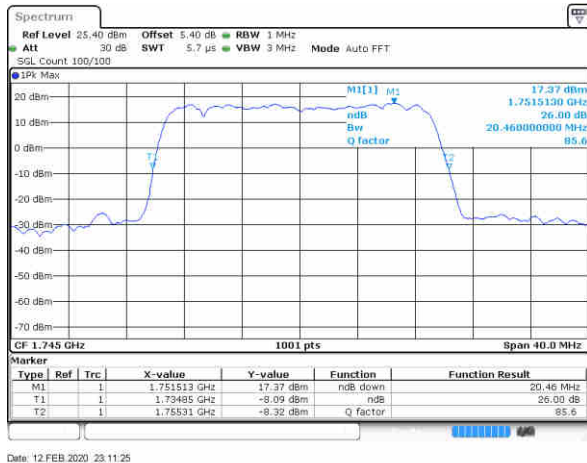
Lowest Channel / 20MHz / QPSK



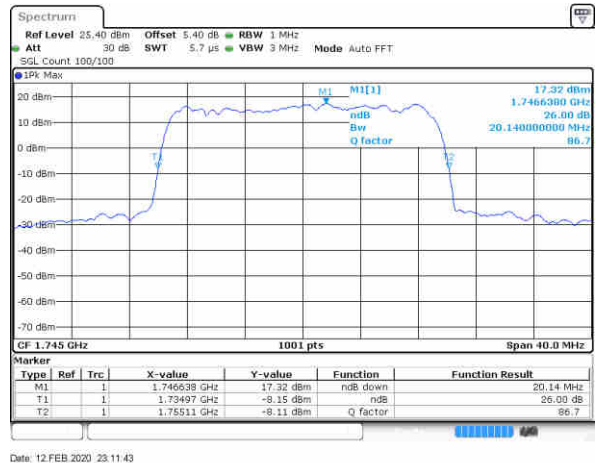
Lowest Channel / 20MHz / 16QAM



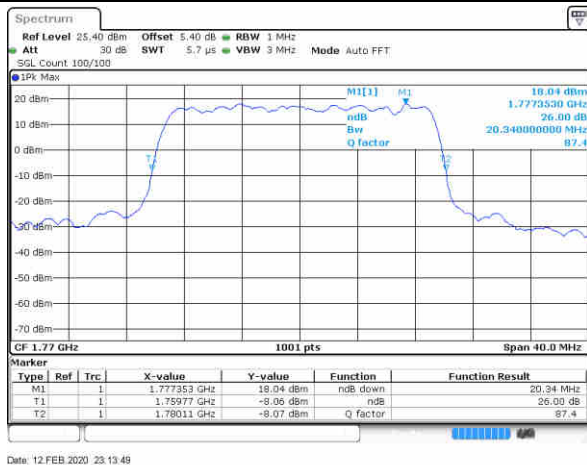
Middle Channel / 20MHz / QPSK



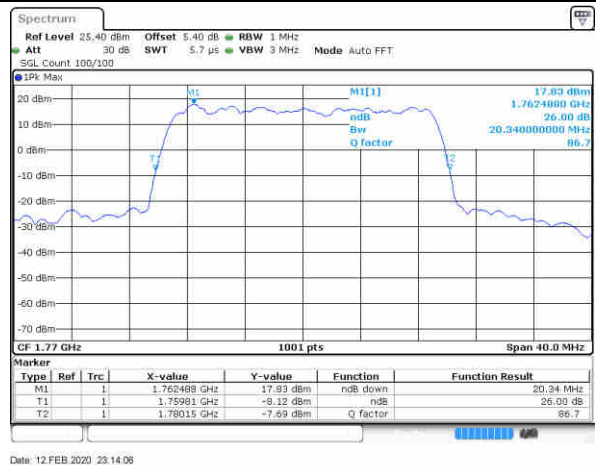
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK



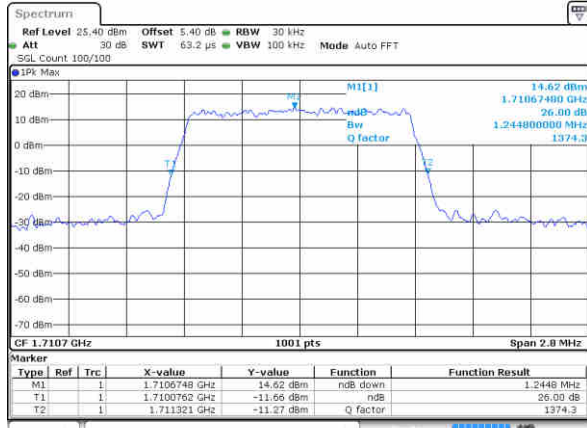
Highest Channel / 20MHz / 16QAM





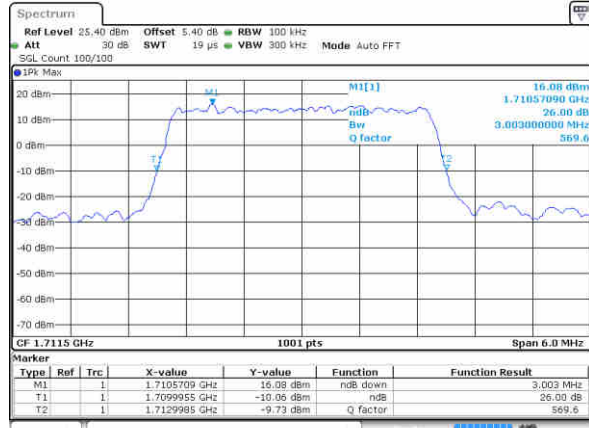
LTE Band 66

Lowest Channel / 1.4MHz / 64QAM



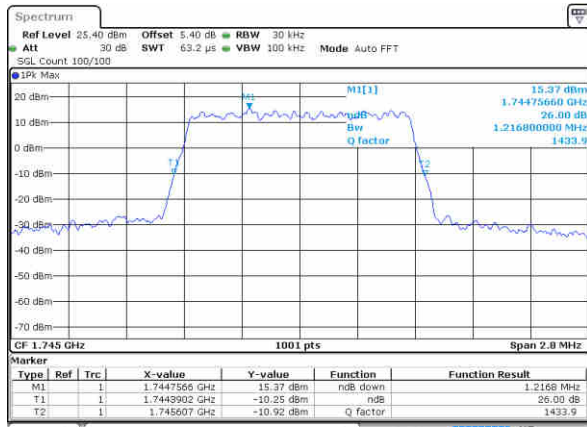
Date: 12 FEB 2020 20:07:19

Lowest Channel / 3MHz / 64QAM



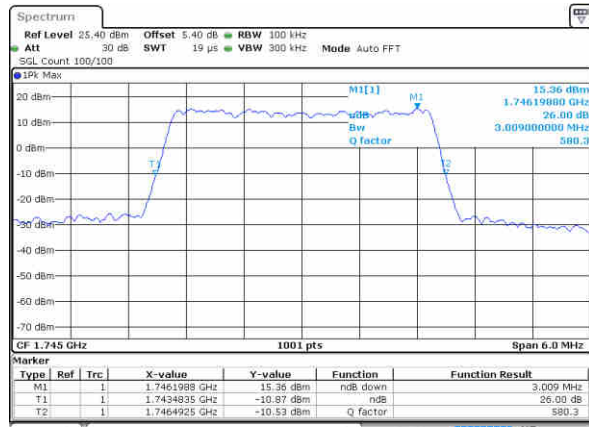
Date: 12 FEB 2020 21:10:32

Middle Channel / 20MHz / 64QAM



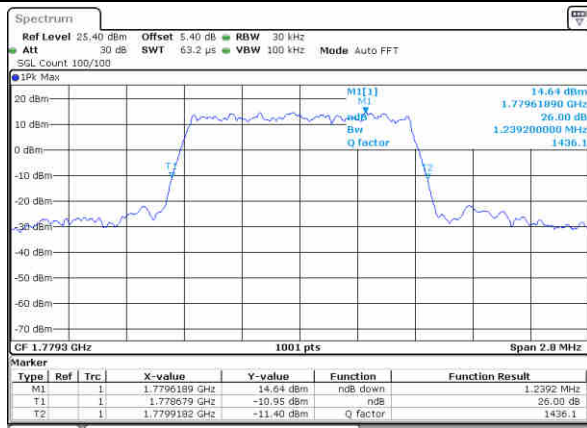
Date: 12 FEB 2020 20:08:18

Middle Channel / 3MHz / 64QAM



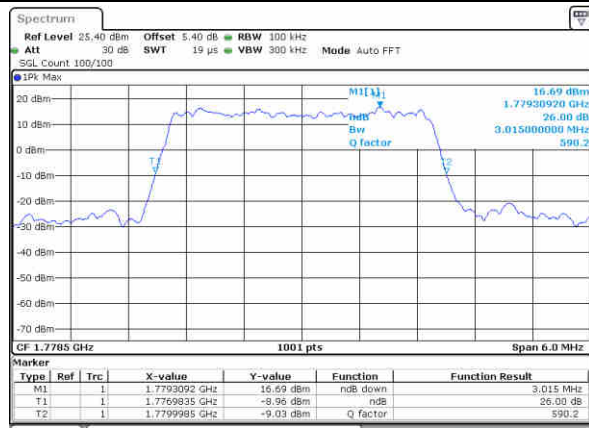
Date: 12 FEB 2020 21:11:48

Highest Channel / 20MHz / 64QAM



Date: 12 FEB 2020 20:09:52

Highest Channel / 3MHz / 64QAM

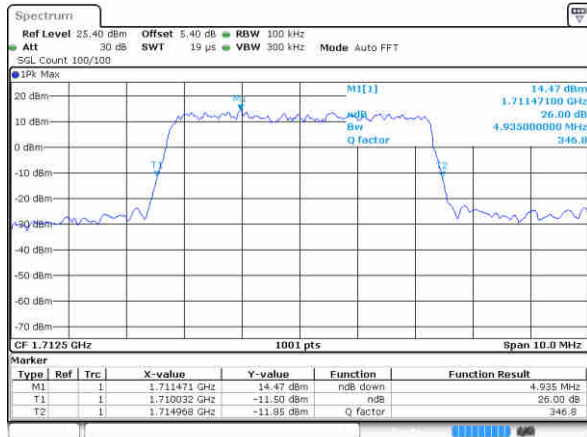


Date: 12 FEB 2020 21:11:11



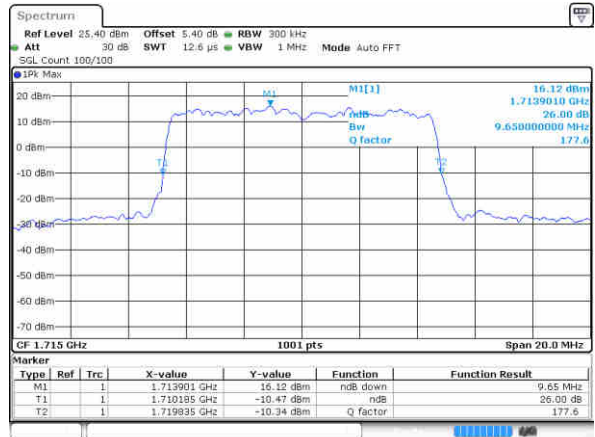
LTE Band 66

Lowest Channel / 5MHz / 64QAM



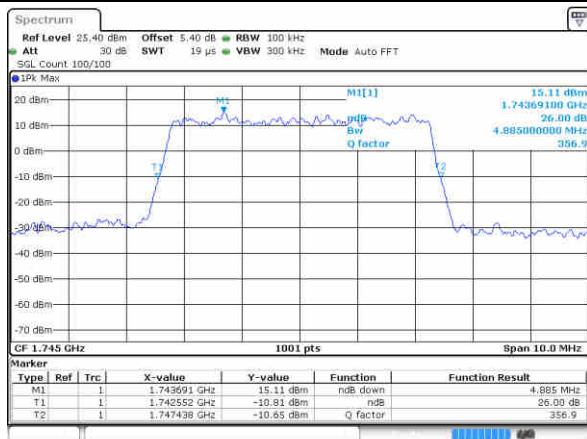
Date: 12 FEB 2020 22:07:21

Lowest Channel / 10MHz / 64QAM



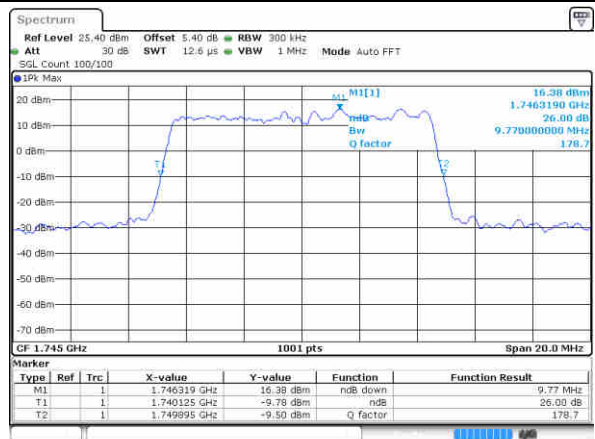
Date: 12 FEB 2020 22:30:51

Middle Channel / 5MHz / 64QAM



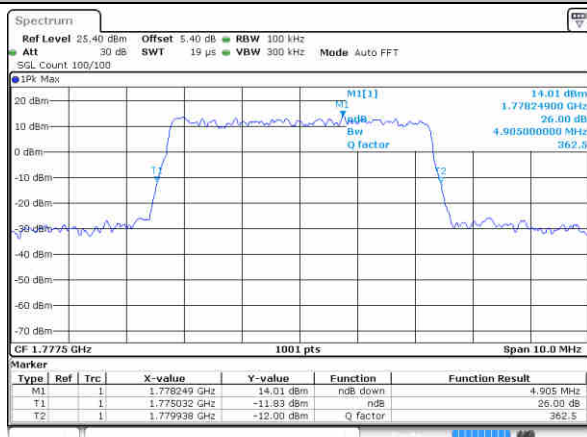
Date: 12 FEB 2020 22:08:44

Middle Channel / 10MHz / 64QAM



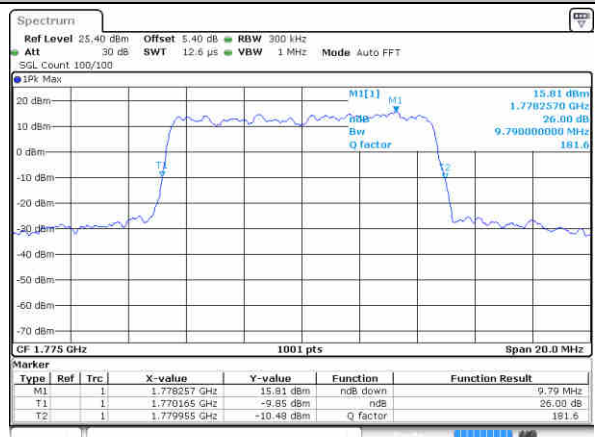
Date: 12 FEB 2020 22:32:09

Highest Channel / 5MHz / 64QAM



Date: 12 FEB 2020 22:10:00

Highest Channel / 10MHz / 64QAM

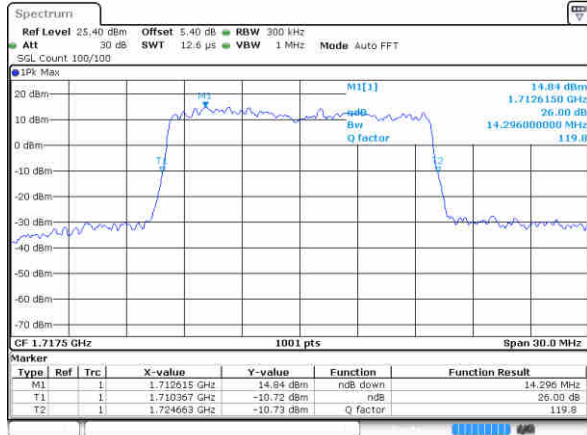


Date: 12 FEB 2020 22:33:41

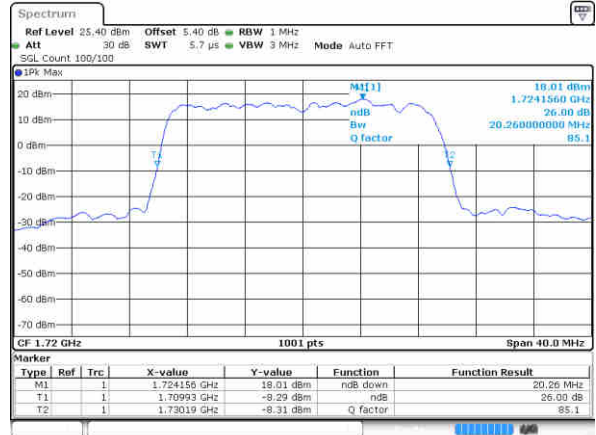


LTE Band 66

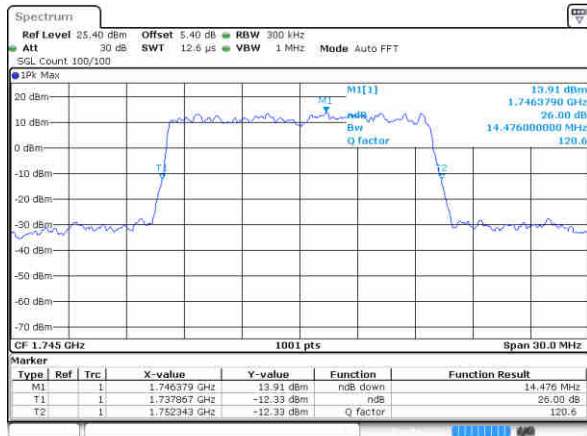
Lowest Channel / 15MHz / 64QAM



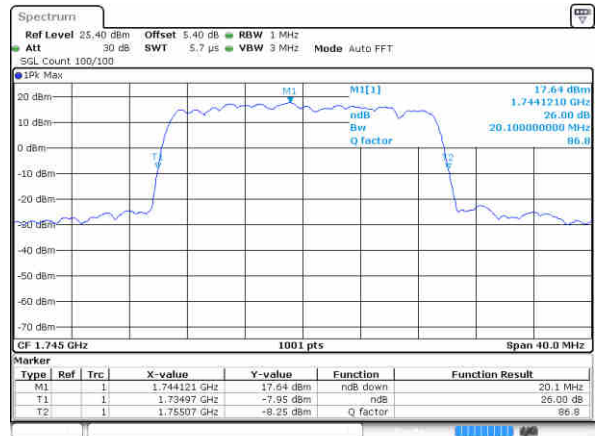
Lowest Channel / 20MHz / 64QAM



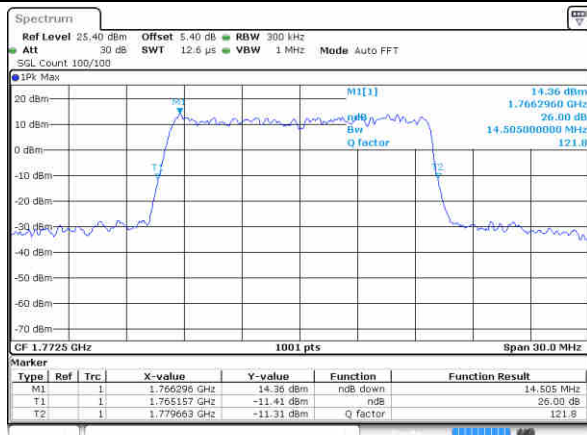
Middle Channel / 15MHz / 64QAM



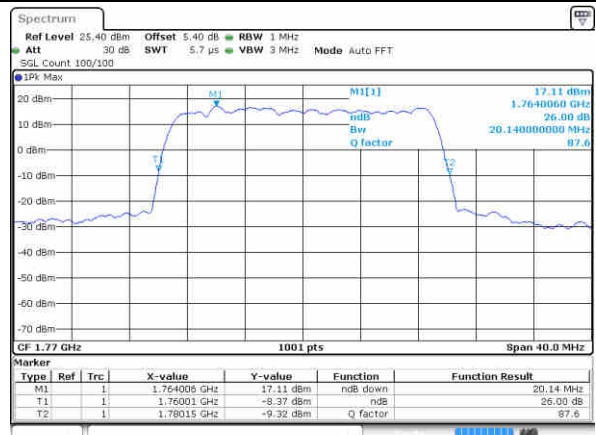
Middle Channel / 20MHz / 64QAM



Highest Channel / 15MHz / 64QAM



Highest Channel / 20MHz / 64QAM



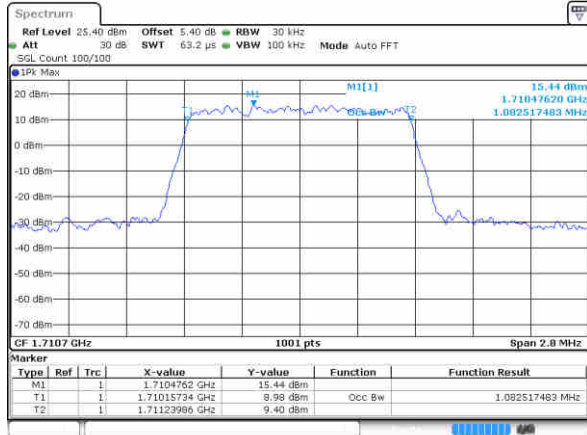
**Occupied Bandwidth**

Mode	LTE Band 66 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.083	1.091	2.709	2.697	4.496	4.496	9.011	8.971	13.457	13.487	18.302	18.422
Middle CH	1.094	1.085	2.721	2.715	4.496	4.496	8.971	9.031	13.427	13.457	18.302	18.262
Highest CH	1.094	1.091	2.727	2.721	4.496	4.486	9.011	9.011	13.427	13.516	18.422	18.501
Mode	LTE Band 66 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.088		2.733		4.496		9.011		13.457		18.302	
Middle CH	1.091		2.727		4.476		9.011		13.427		18.302	
Highest CH	1.088		2.721		4.496		9.011		13.427		18.382	

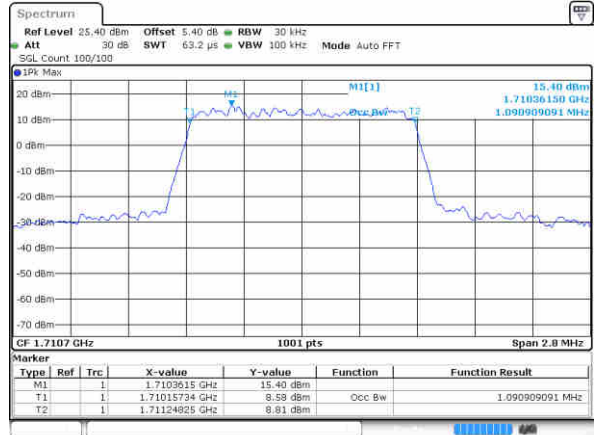


LTE Band 66

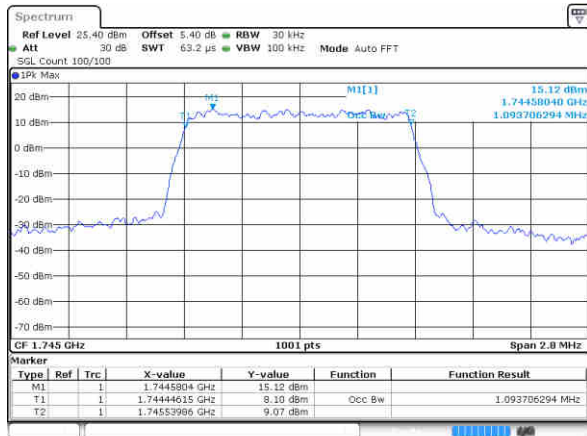
Lowest Channel / 1.4MHz / QPSK



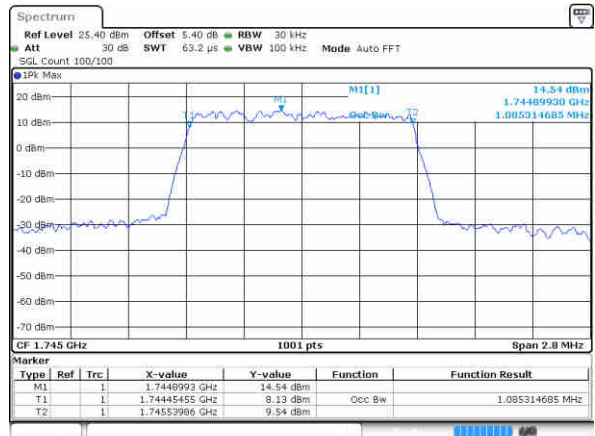
Lowest Channel / 1.4MHz / 16QAM



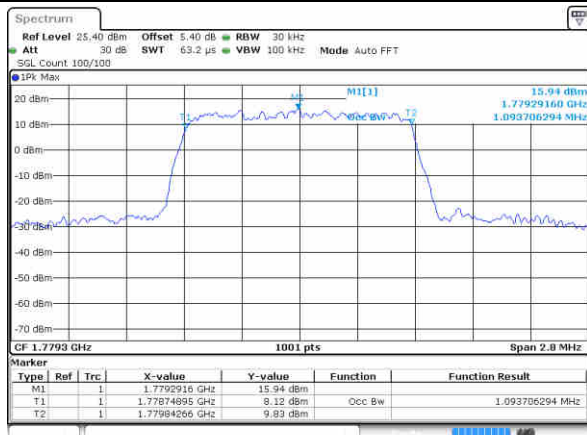
Middle Channel / 1.4MHz / QPSK



Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



Highest Channel / 1.4MHz / 16QAM

