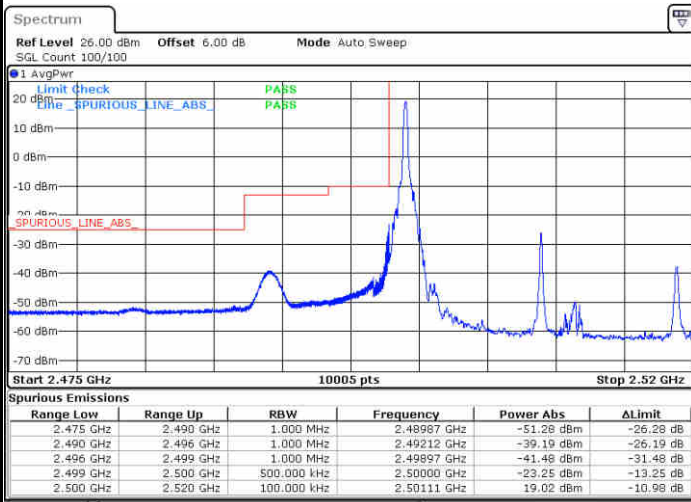




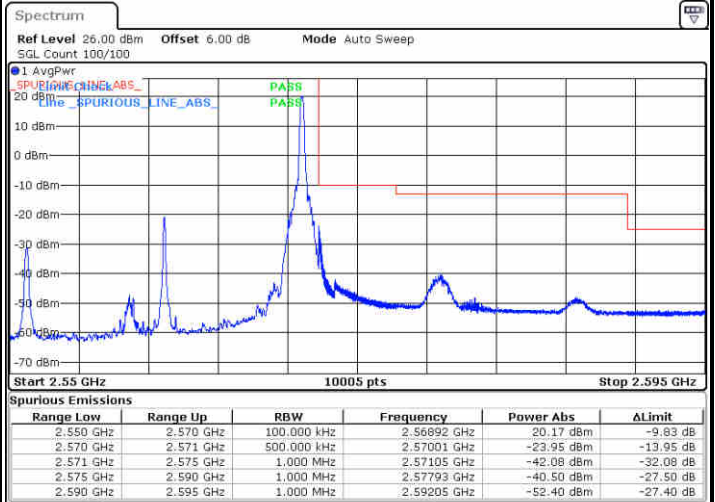
LTE Band 7 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



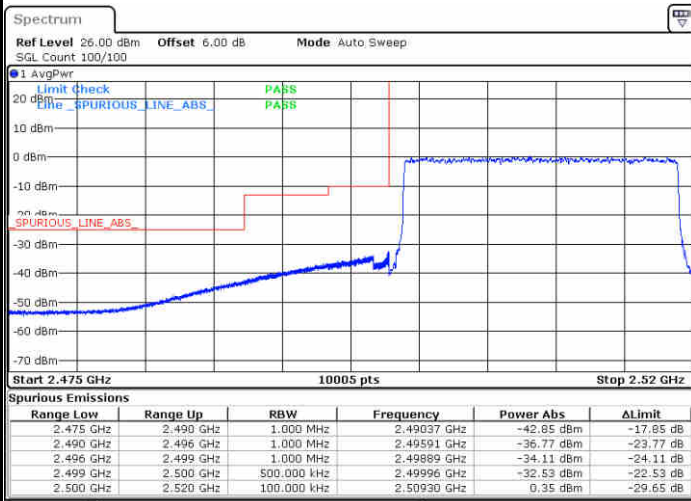
Date: 11 FEB 2020 12:52:31

Highest Band Edge / 1 RB



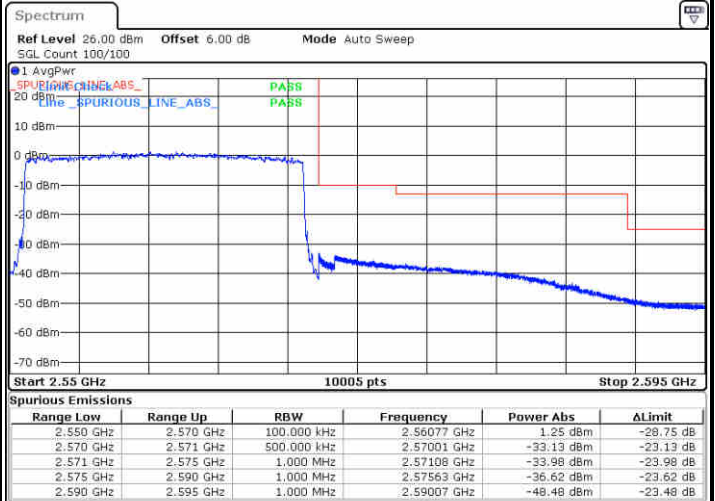
Date: 11 FEB 2020 12:54:47

Lowest Band Edge / Full RB



Date: 11 FEB 2020 12:51:23

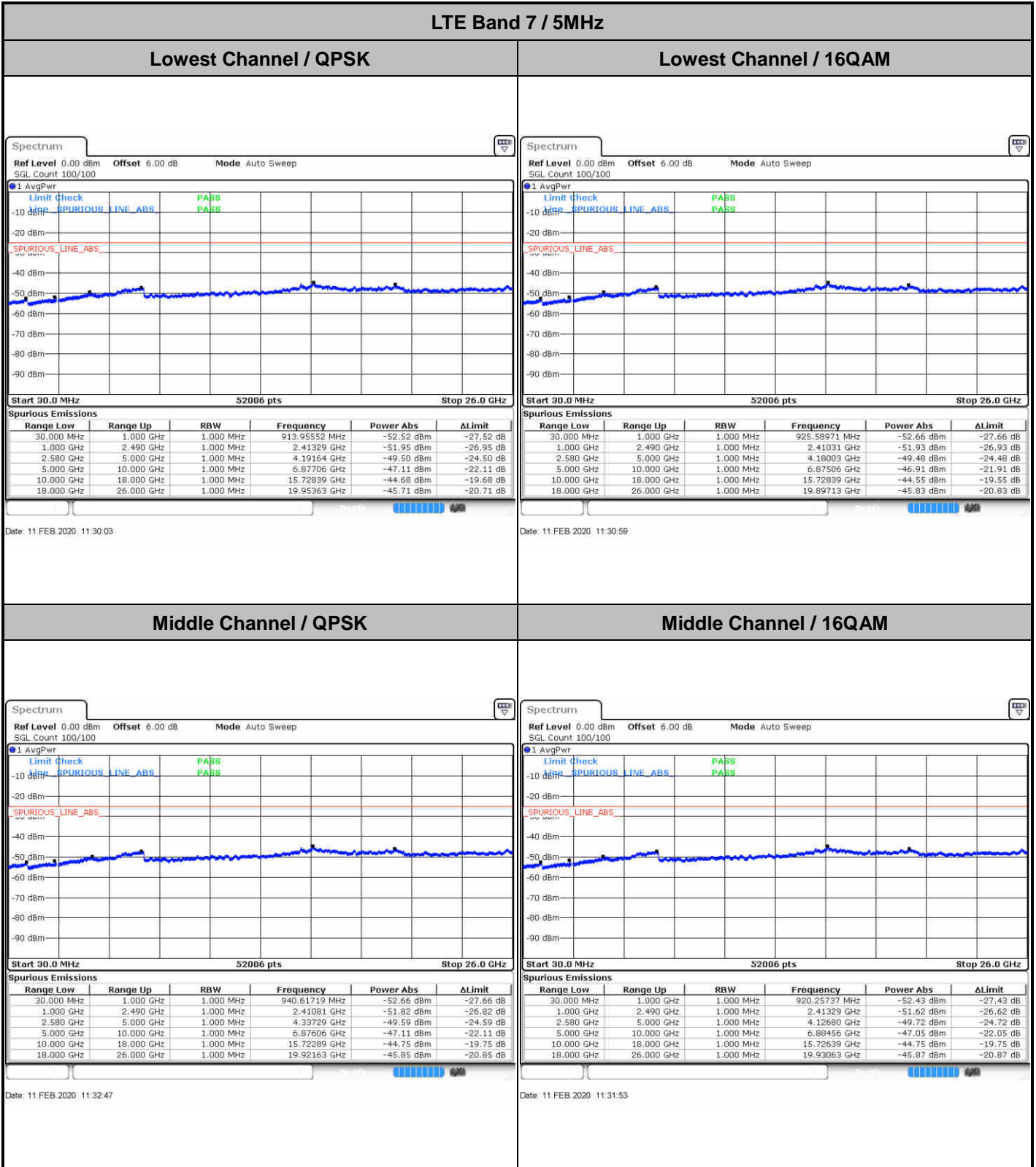
Highest Band Edge / Full RB



Date: 11 FEB 2020 12:53:39



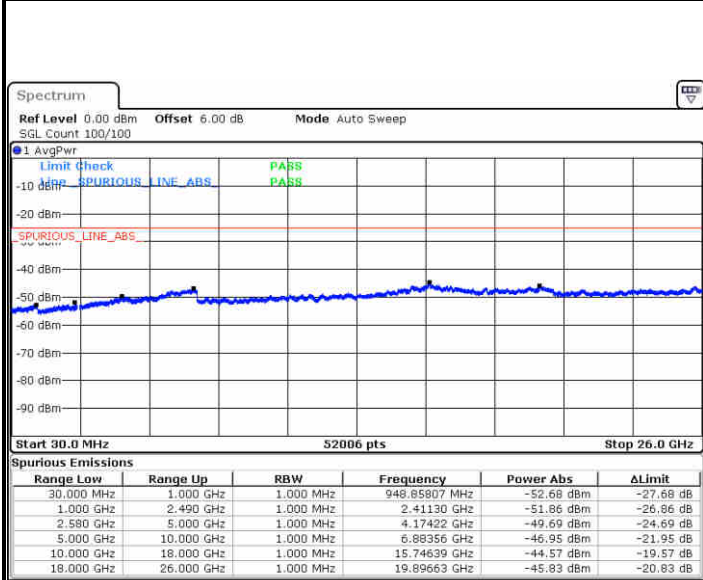
Conducted Spurious Emission





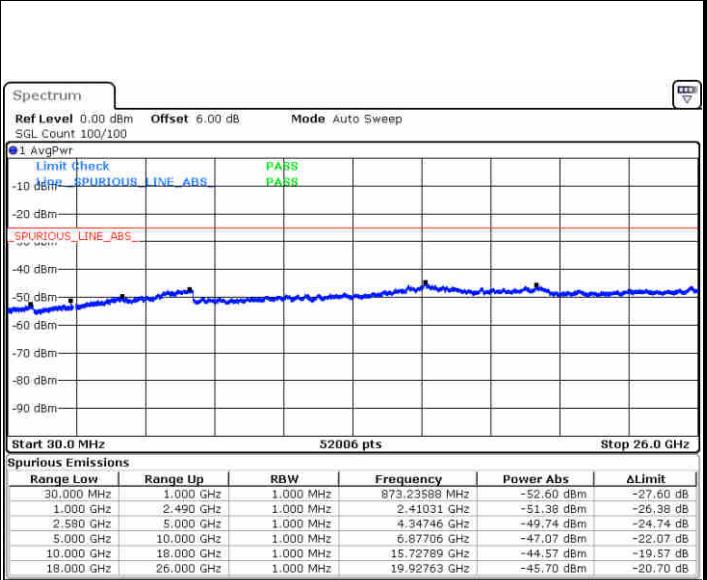
LTE Band 7 / 5MHz

Highest Channel / QPSK



Date: 11.FEB 2020 11:33:40

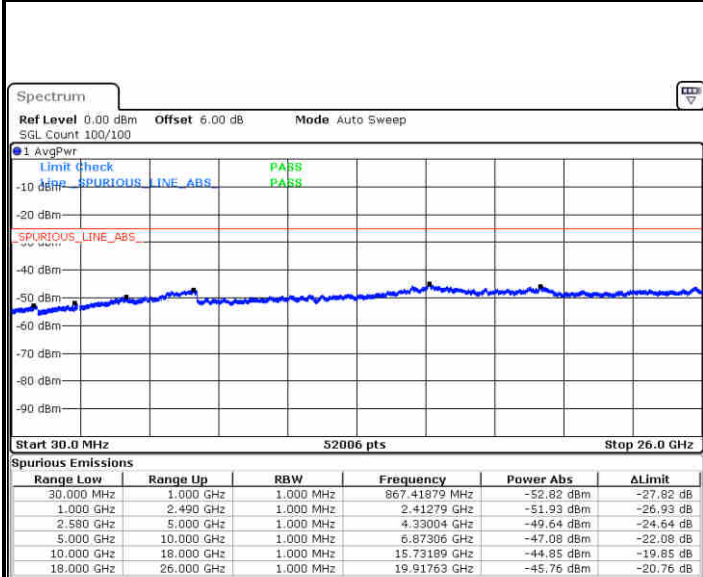
Highest Channel / 16QAM



Date: 11.FEB 2020 11:34:34

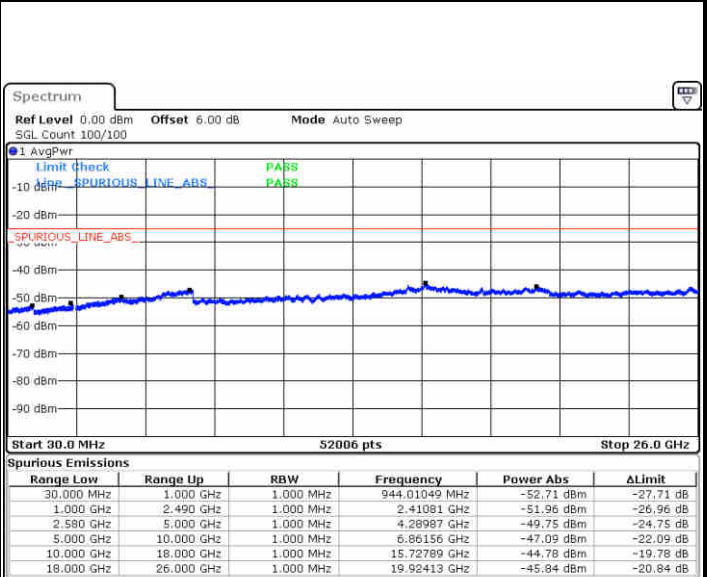
LTE Band 7 / 10MHz

Lowest Channel / QPSK



Date: 11.FEB 2020 11:46:31

Lowest Channel / 16QAM



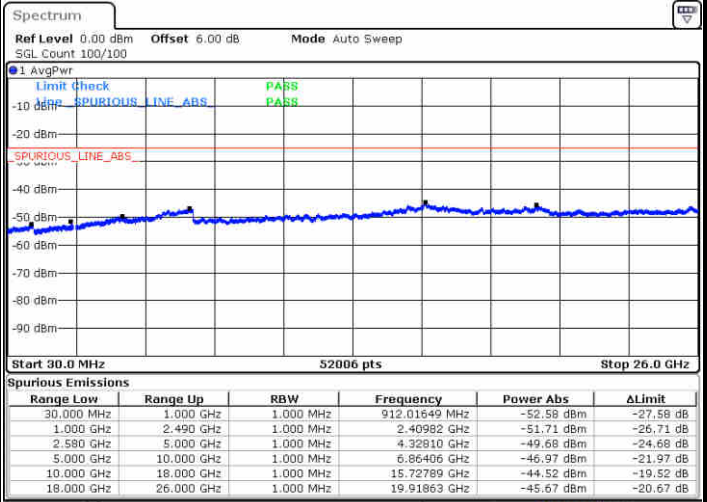
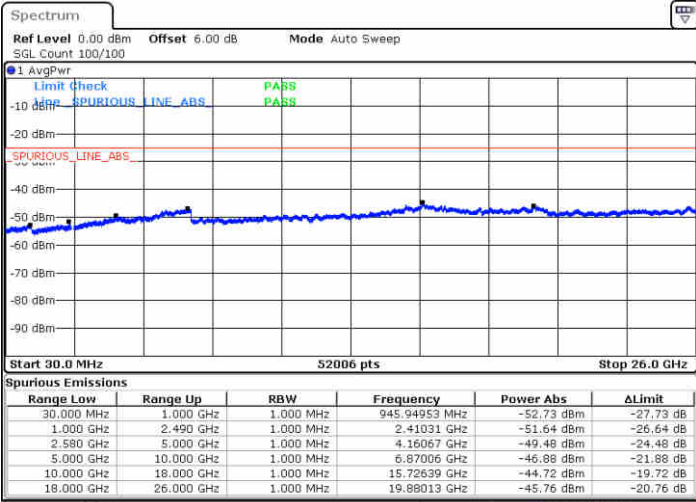
Date: 11.FEB 2020 11:47:24



LTE Band 7 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

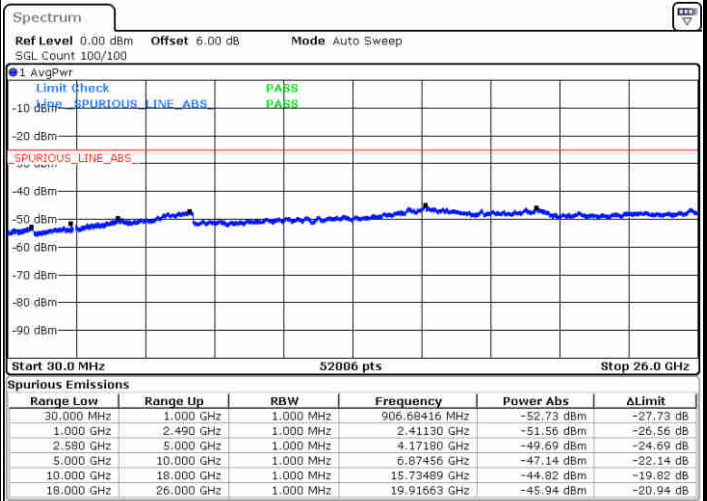
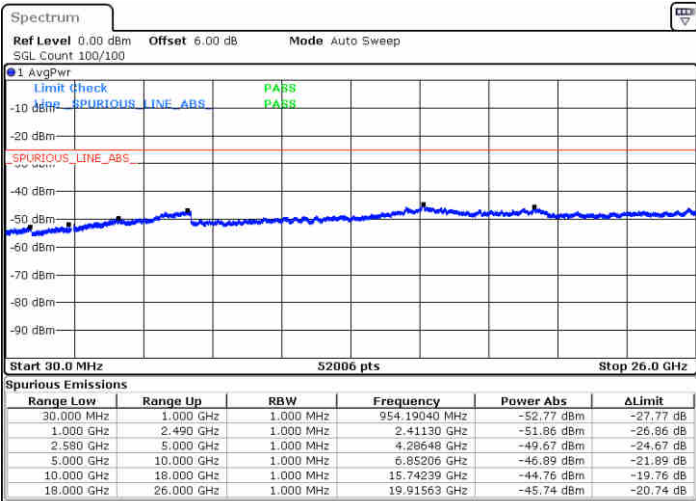


Date: 11.FEB.2020 11:49:12

Date: 11.FEB.2020 11:48:18

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 11.FEB.2020 11:50:05

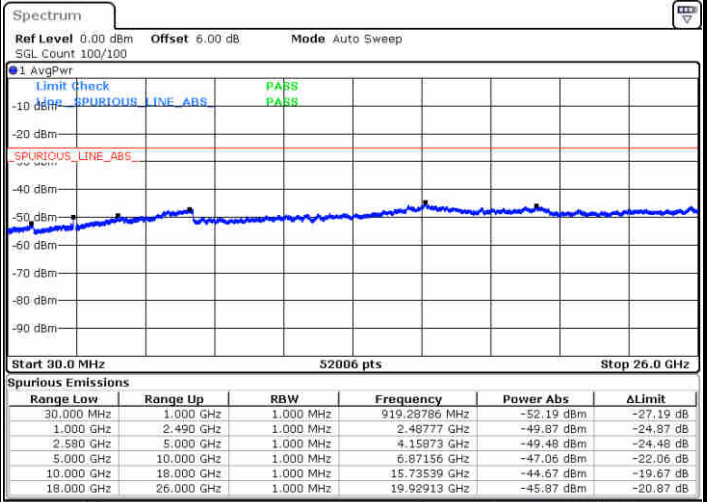
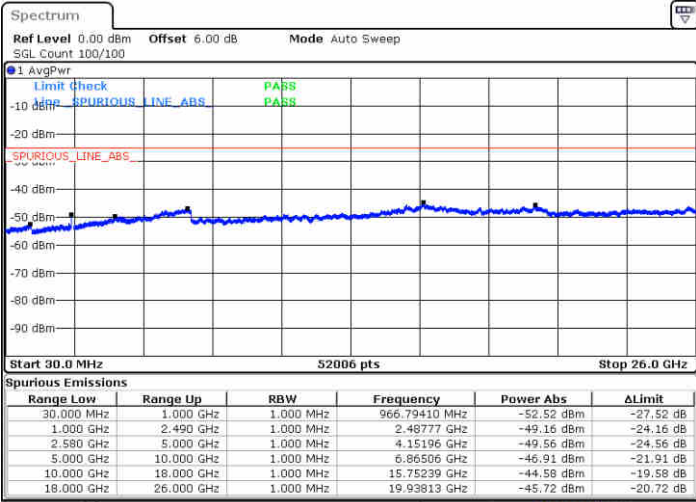
Date: 11.FEB.2020 11:50:59



LTE Band 7 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

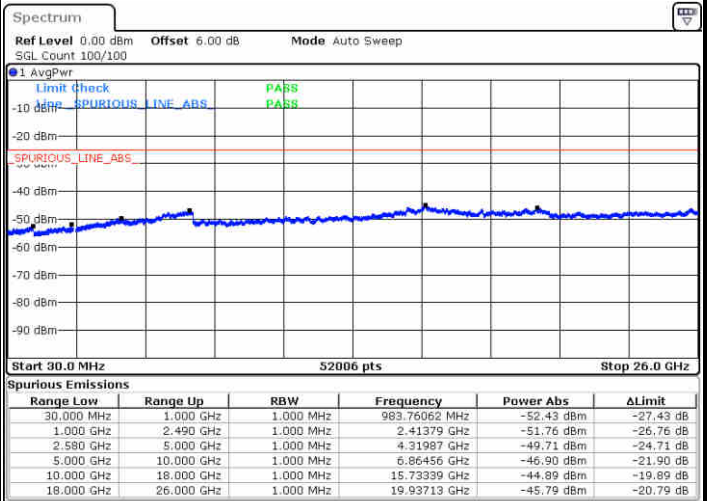
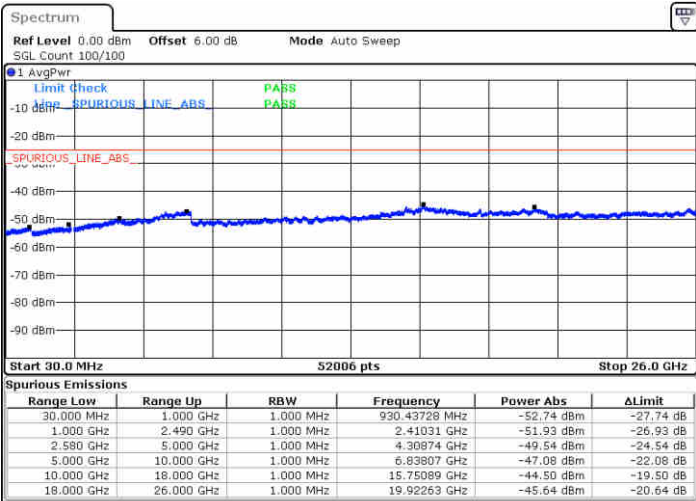


Date: 11 FEB 2020 12:02:57

Date: 11 FEB 2020 12:03:51

Middle Channel / QPSK

Middle Channel / 16QAM



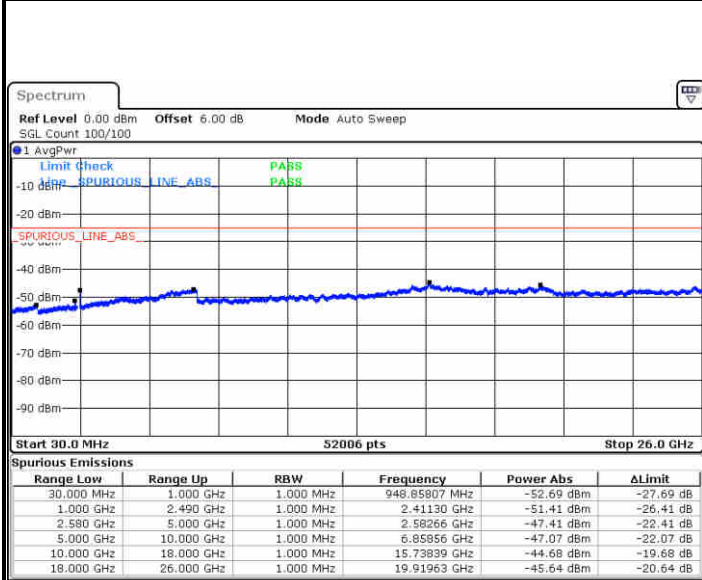
Date: 11 FEB 2020 12:05:39

Date: 11 FEB 2020 12:04:45



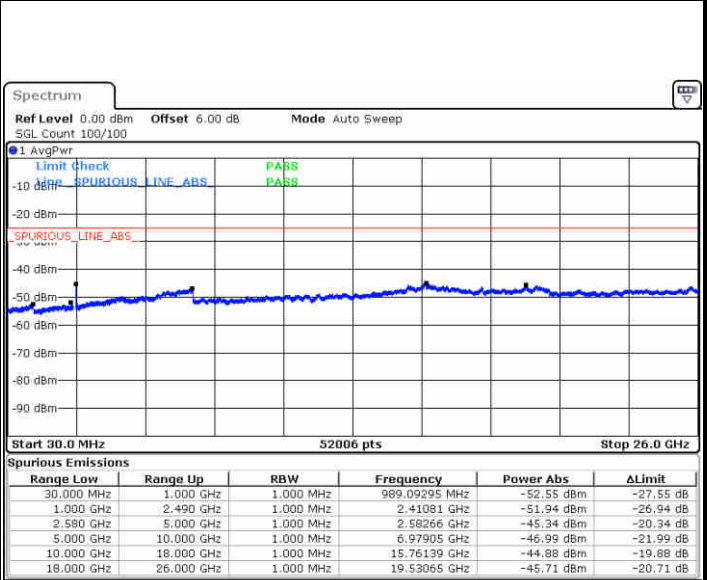
LTE Band 7 / 15MHz

Highest Channel / QPSK



Date: 11.FEB.2020 12:06:32

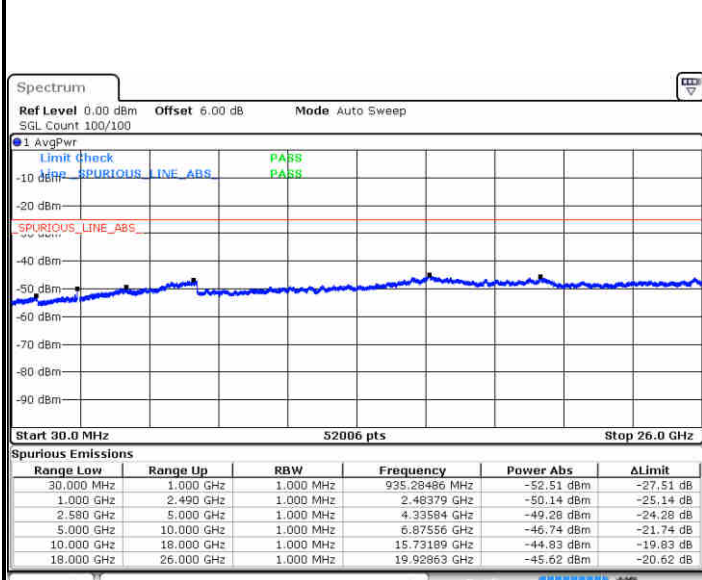
Highest Channel / 16QAM



Date: 11.FEB.2020 12:08:07

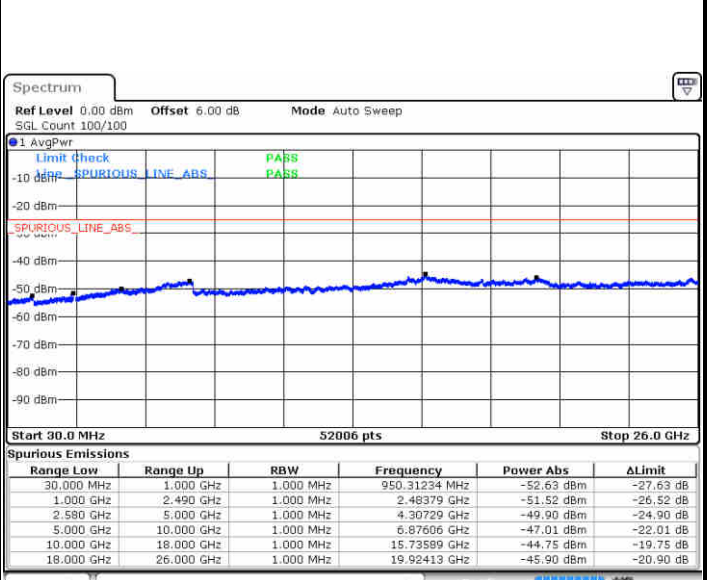
LTE Band 7 / 20MHz

Lowest Channel / QPSK



Date: 11.FEB.2020 12:20:05

Lowest Channel / 16QAM



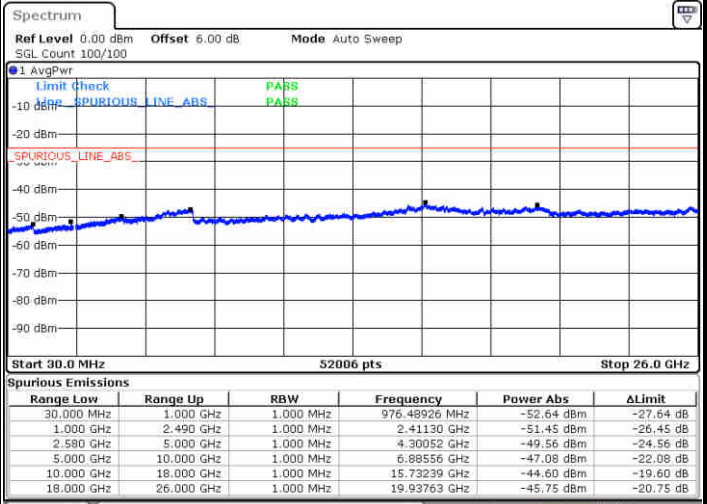
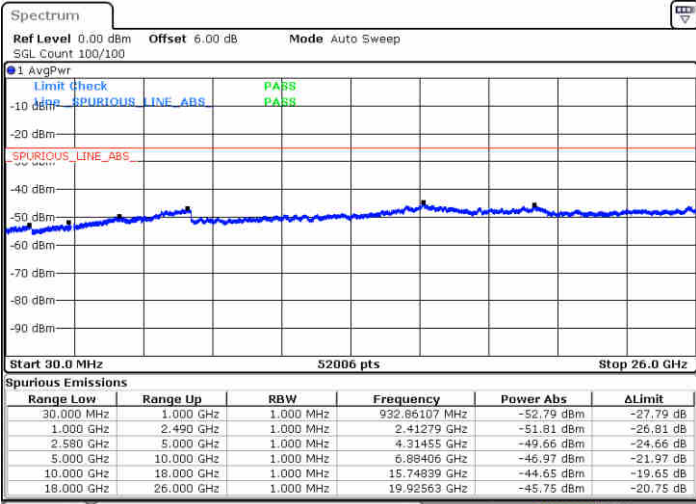
Date: 11.FEB.2020 12:20:59



LTE Band 7 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

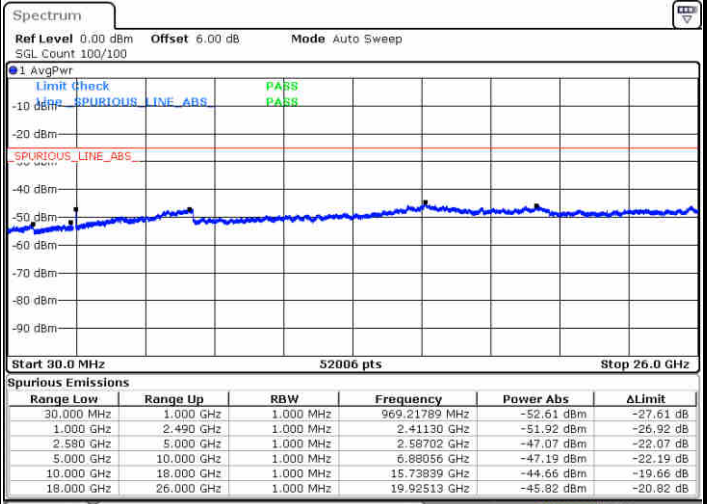
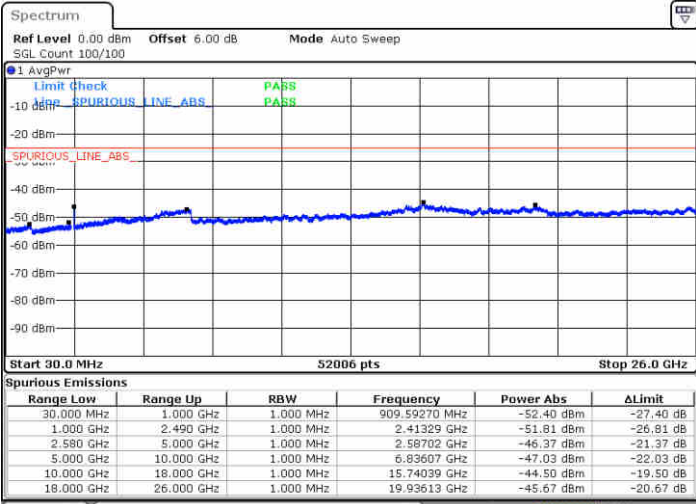


Date: 11 FEB 2020 12:22:47

Date: 11 FEB 2020 12:21:53

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 11 FEB 2020 12:23:40

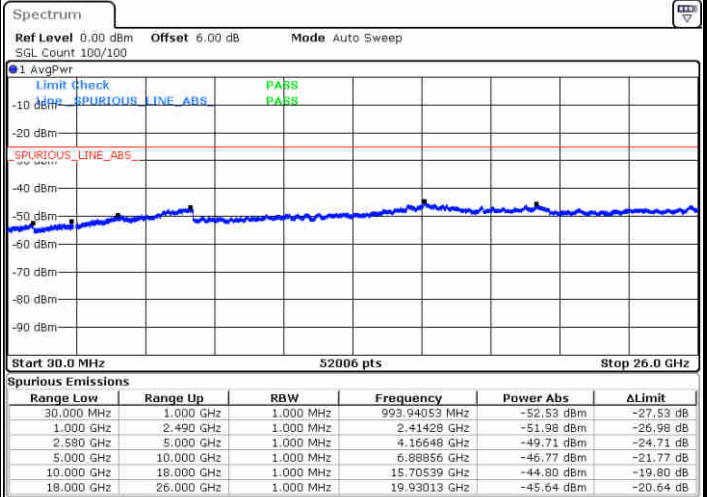
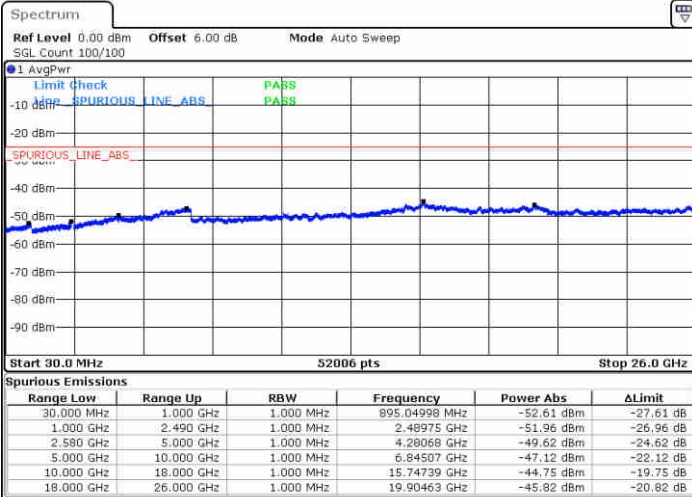
Date: 11 FEB 2020 12:24:34



LTE Band 7 / 5MHz

Lowest Channel / 64QAM

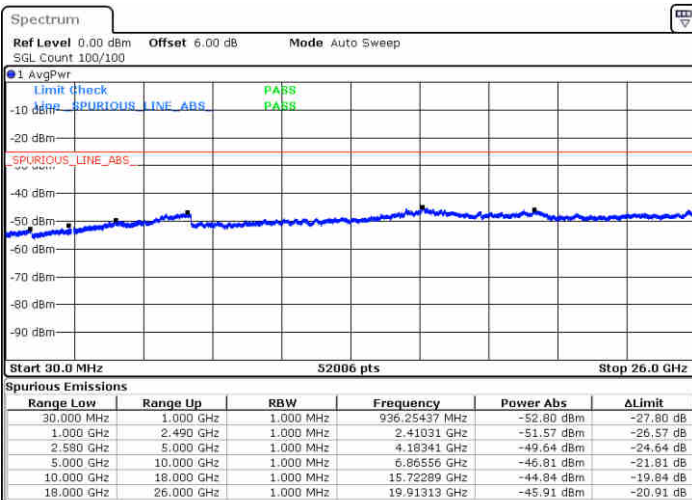
Middle Channel / 64QAM



Date: 11 FEB 2020 12:26:27

Date: 11 FEB 2020 12:27:21

Highest Channel / 64QAM

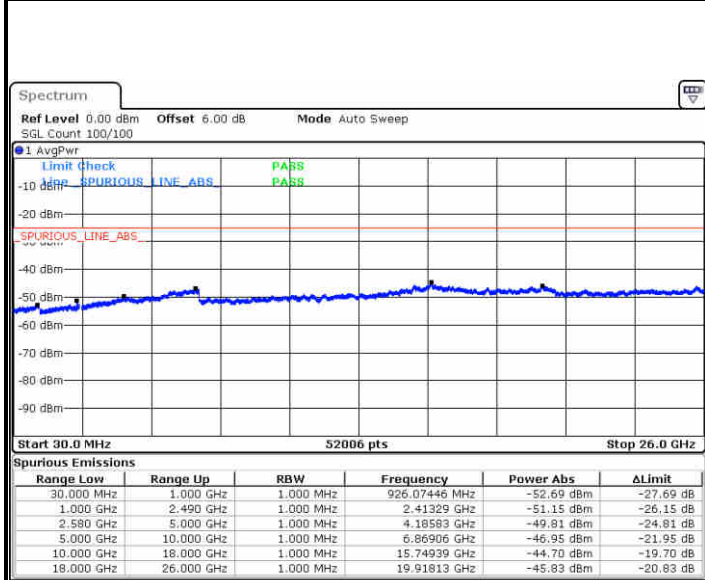


Date: 11 FEB 2020 12:28:15



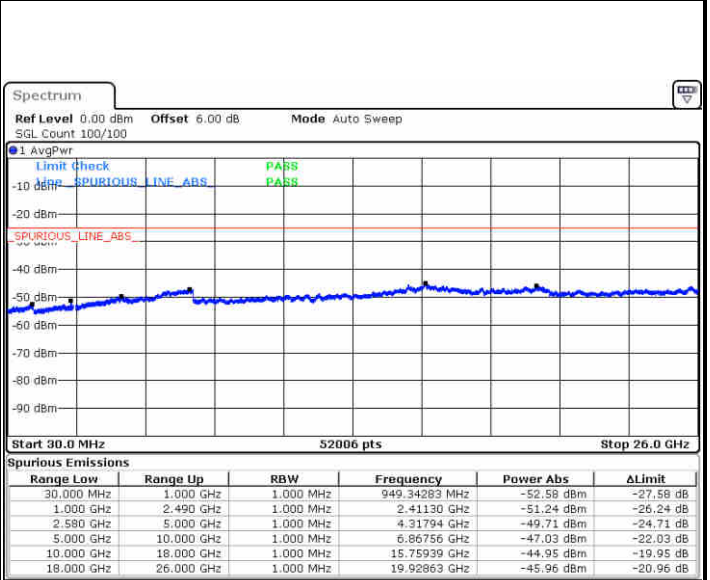
LTE Band 7 / 10MHz

Lowest Channel / 64QAM



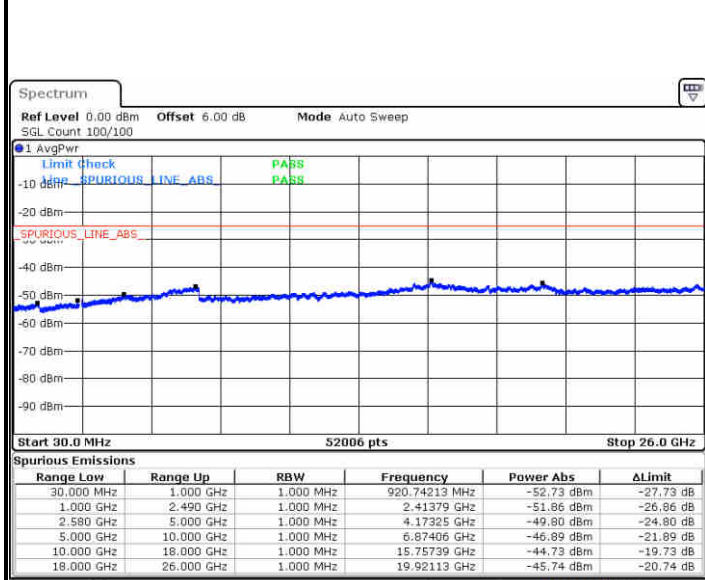
Date: 11 FEB 2020 12:34:41

Middle Channel / 64QAM



Date: 11 FEB 2020 12:35:35

Highest Channel / 64QAM



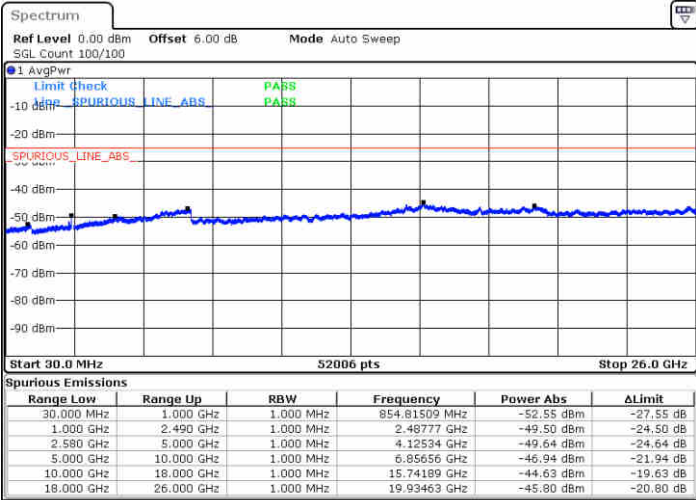
Date: 11 FEB 2020 12:38:29



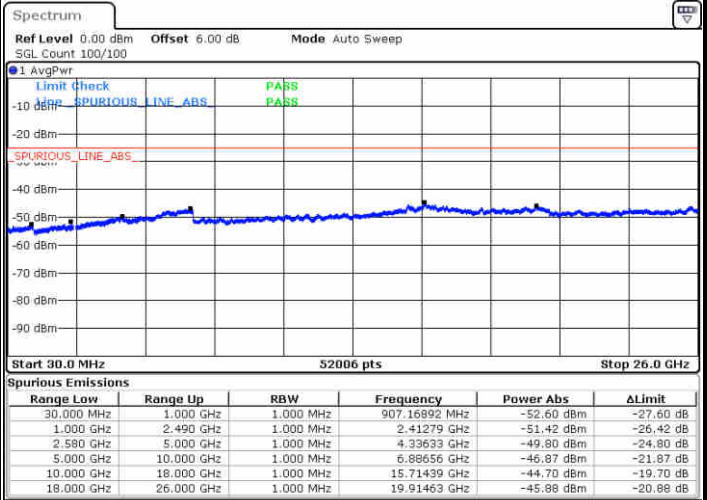
LTE Band 7 / 15MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

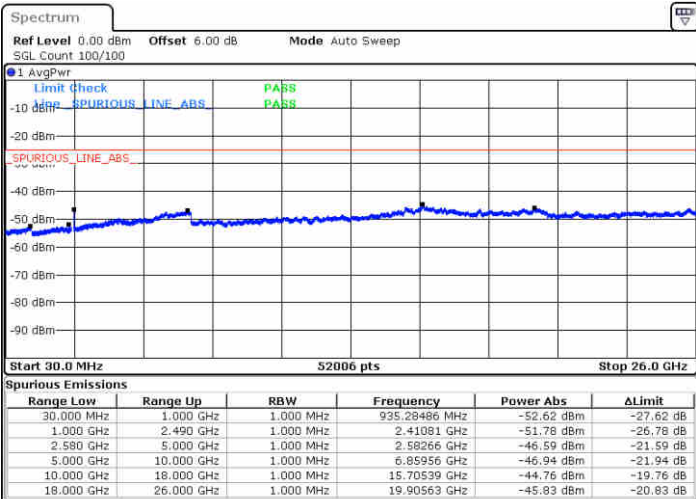


Date: 11 FEB 2020 12:47:27



Date: 11 FEB 2020 12:48:21

Highest Channel / 64QAM

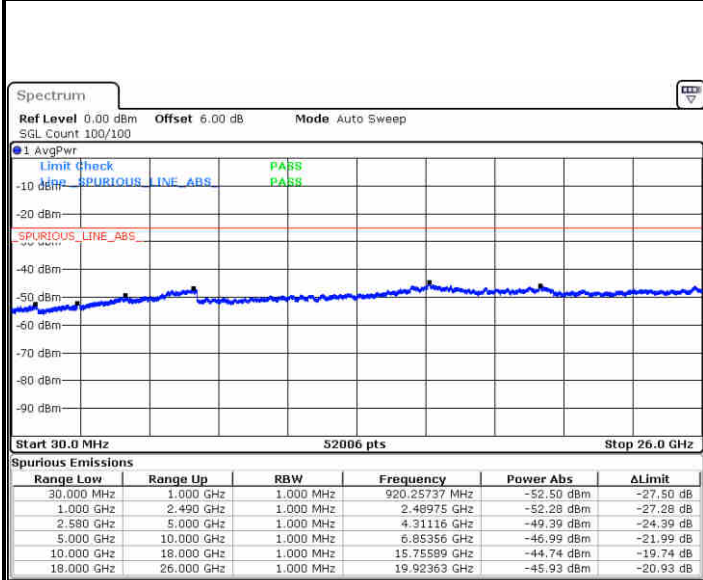


Date: 11 FEB 2020 12:49:14



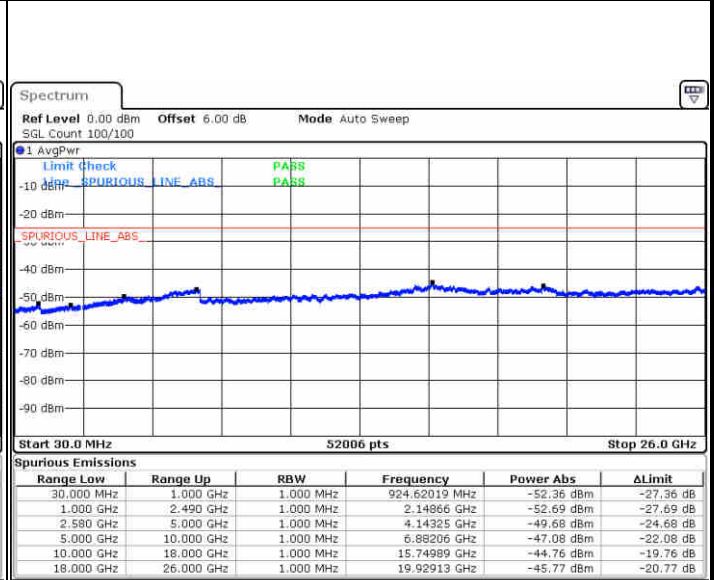
LTE Band 7 / 20MHz

Lowest Channel / 64QAM



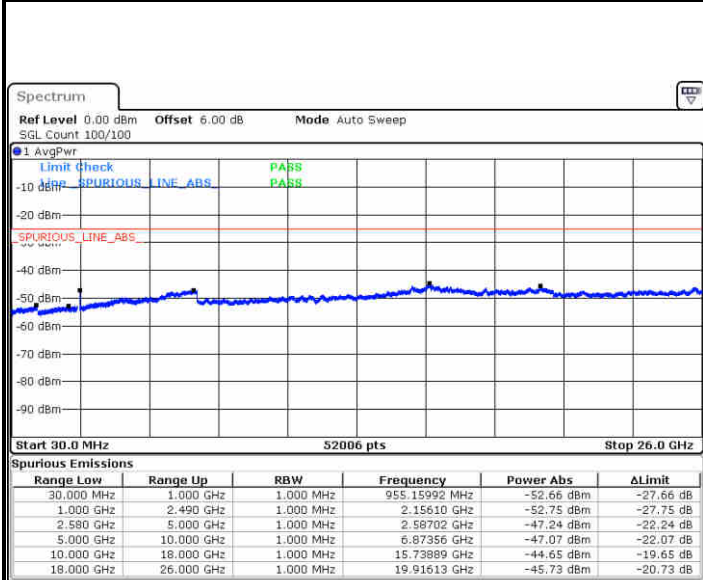
Date: 11 FEB 2020 12:55:40

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			



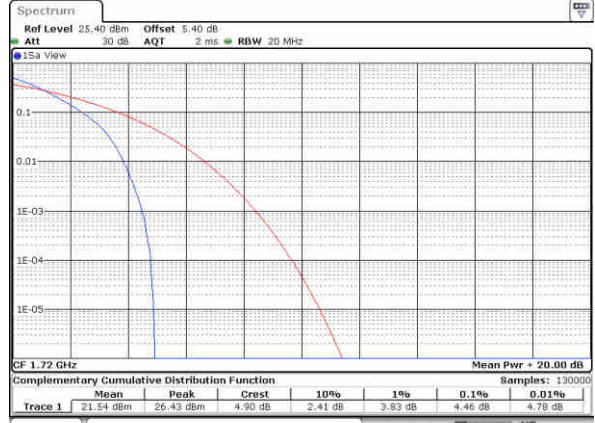
LTE Band 66 / 20MHz / QPSK

Lowest Channel / 1RB



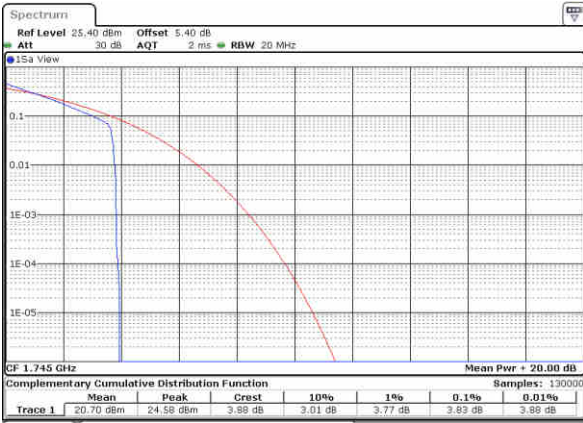
Date: 12 FEB 2020 23:30:17

Lowest Channel / Full RB



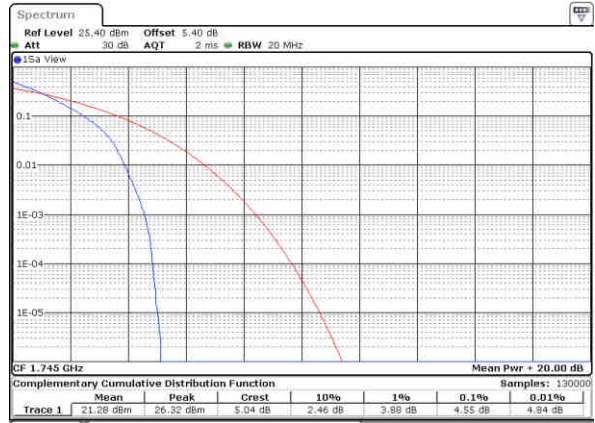
Date: 12 FEB 2020 23:31:09

Middle Channel / 1RB



Date: 12 FEB 2020 23:31:57

Middle Channel / Full RB



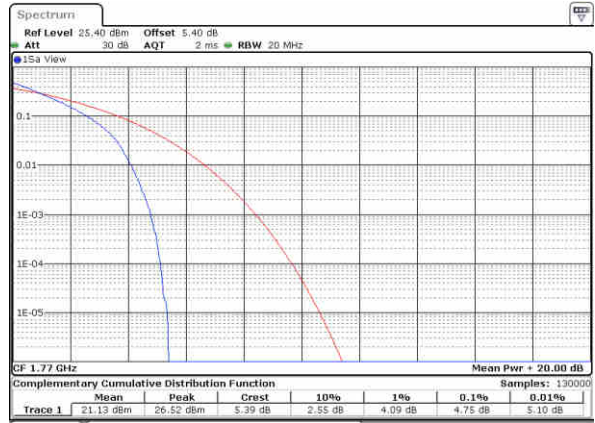
Date: 12 FEB 2020 23:32:32

Highest Channel / 1RB



Date: 12 FEB 2020 23:33:35

Highest Channel / Full RB



Date: 12 FEB 2020 23:34:23



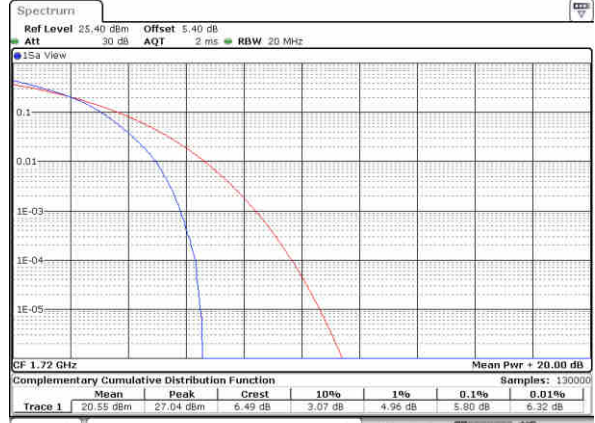
LTE Band 66 / 20MHz / 16QAM

Lowest Channel / 1RB



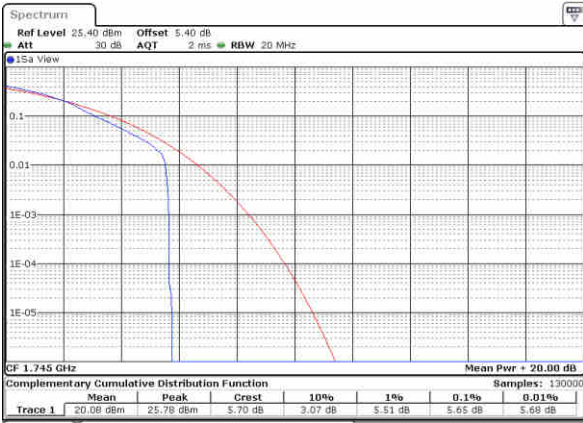
Date: 12 FEB 2020 23:30:29

Lowest Channel / Full RB



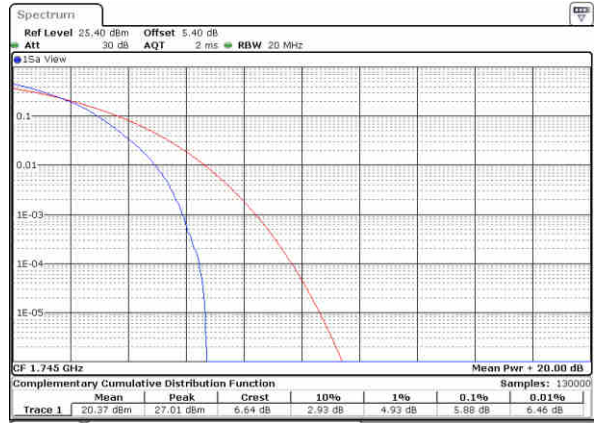
Date: 12 FEB 2020 23:31:20

Middle Channel / 1RB



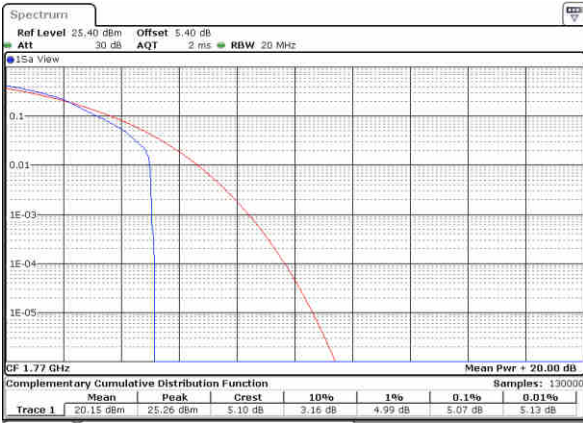
Date: 12 FEB 2020 23:32:07

Middle Channel / Full RB



Date: 12 FEB 2020 23:32:45

Highest Channel / 1RB



Date: 12 FEB 2020 23:33:57

Highest Channel / Full RB

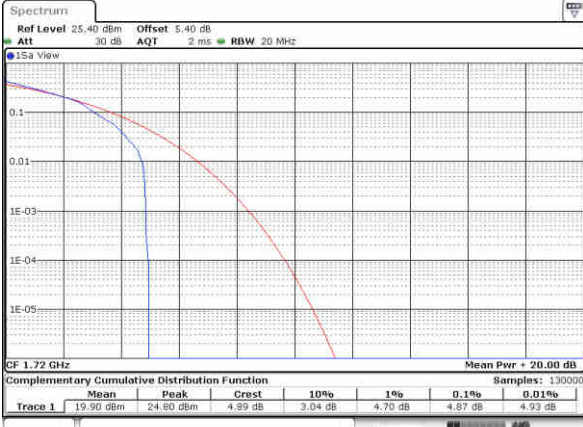


Date: 12 FEB 2020 23:34:34



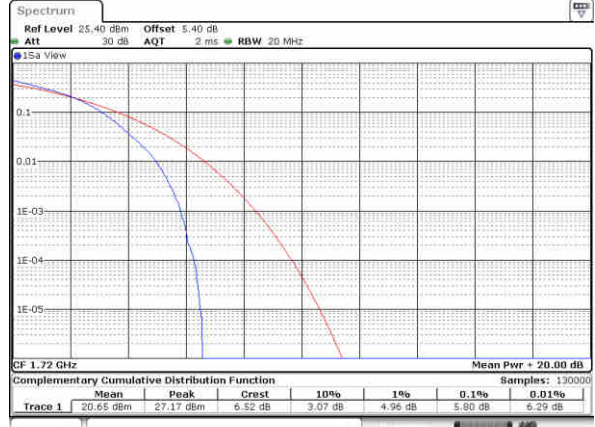
LTE Band 66 / 20MHz / 64QAM

Lowest Channel / 1RB



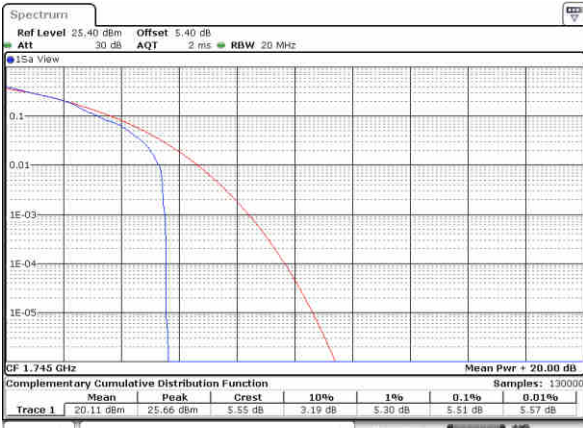
Date: 12 FEB 2020 23:30:48

Lowest Channel / Full RB



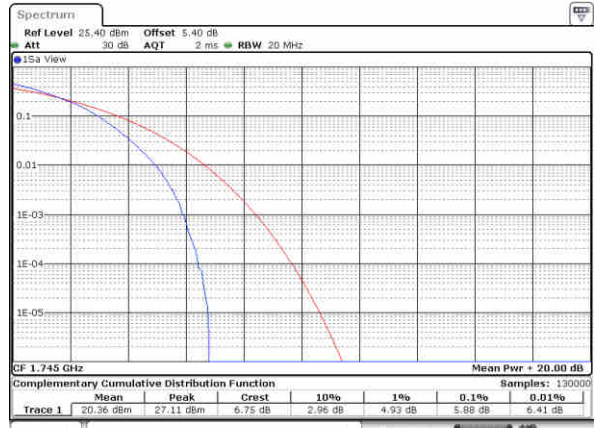
Date: 12 FEB 2020 23:31:30

Middle Channel / 1RB



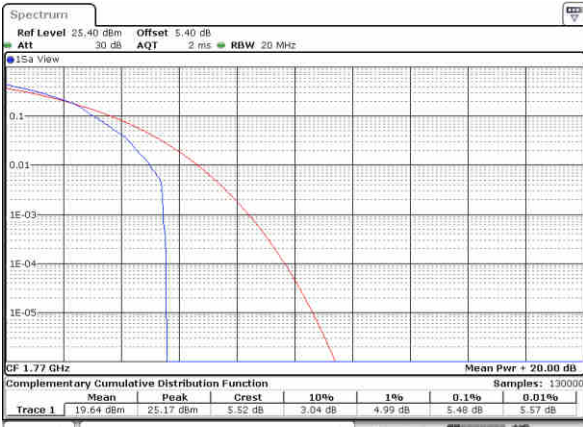
Date: 12 FEB 2020 23:32:18

Middle Channel / Full RB



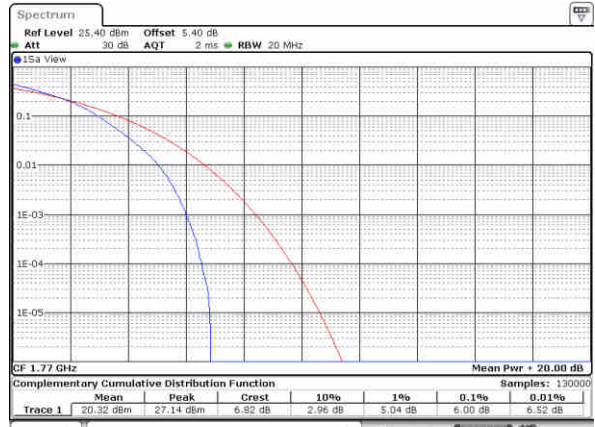
Date: 12 FEB 2020 23:32:55

Highest Channel / 1RB



Date: 12 FEB 2020 23:34:08

Highest Channel / Full RB



Date: 12 FEB 2020 23:34:45



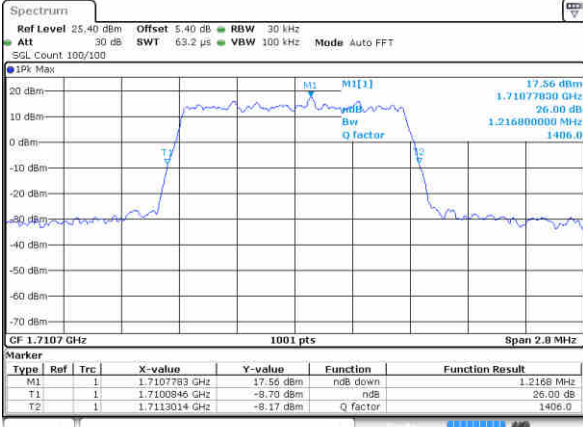
26dB Bandwidth

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	



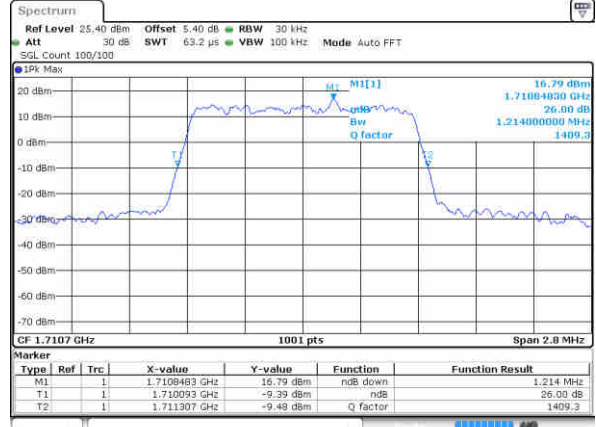
LTE Band 66

Lowest Channel / 1.4MHz / QPSK



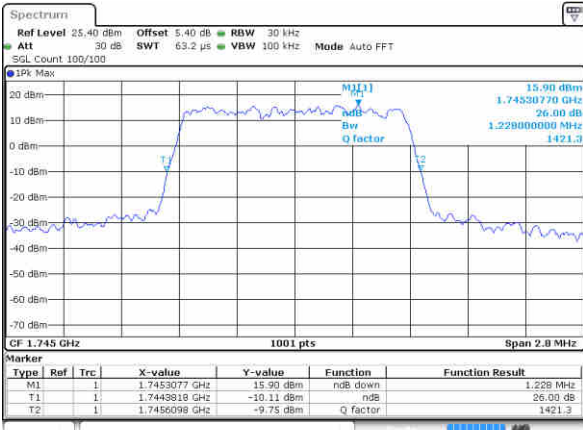
Date: 12 FEB 2020 20:06:44

Lowest Channel / 1.4MHz / 16QAM



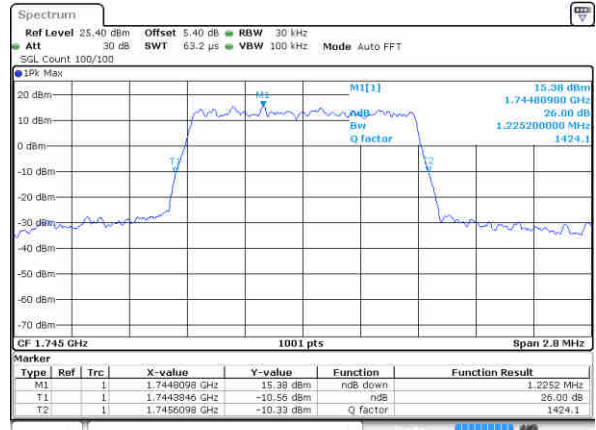
Date: 12 FEB 2020 20:07:03

Middle Channel / 1.4MHz / QPSK



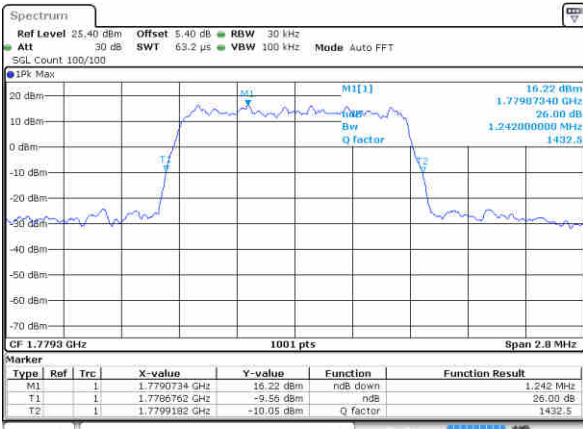
Date: 12 FEB 2020 20:08:48

Middle Channel / 1.4MHz / 16QAM



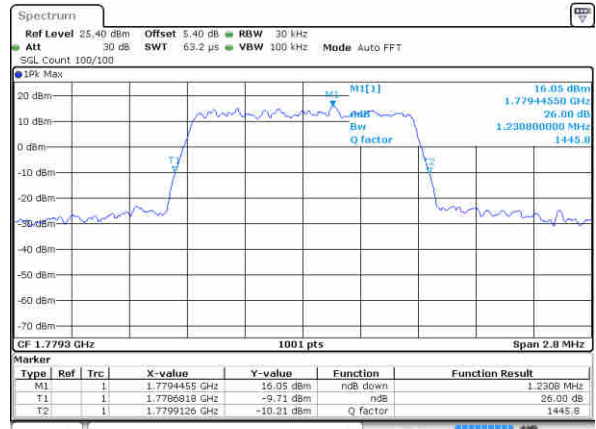
Date: 12 FEB 2020 20:08:33

Highest Channel / 1.4MHz / QPSK



Date: 12 FEB 2020 20:09:21

Highest Channel / 1.4MHz / 16QAM

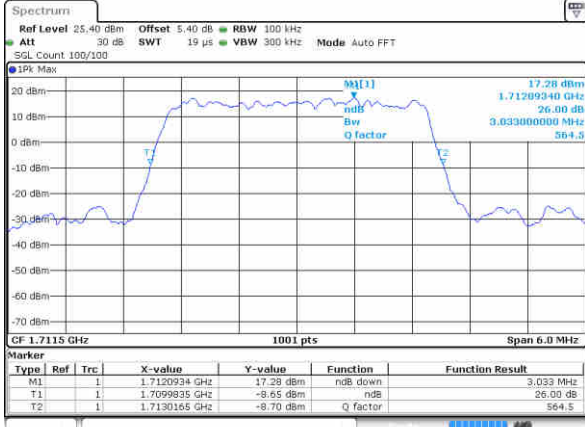


Date: 12 FEB 2020 20:09:33



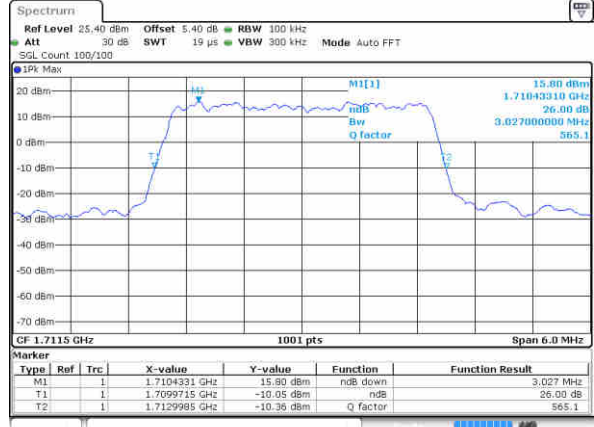
LTE Band 66

Lowest Channel / 3MHz / QPSK



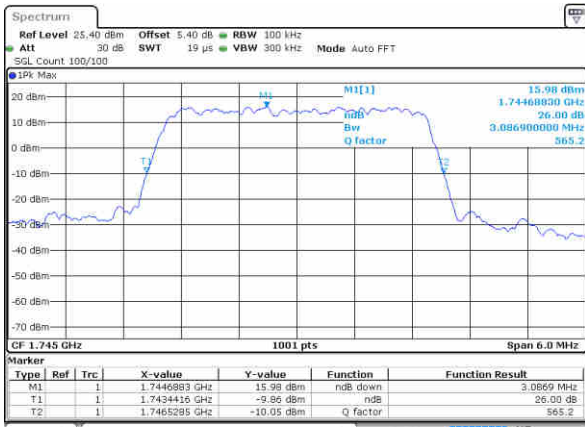
Date: 12.FEB.2020 21:09:43

Lowest Channel / 3MHz / 16QAM



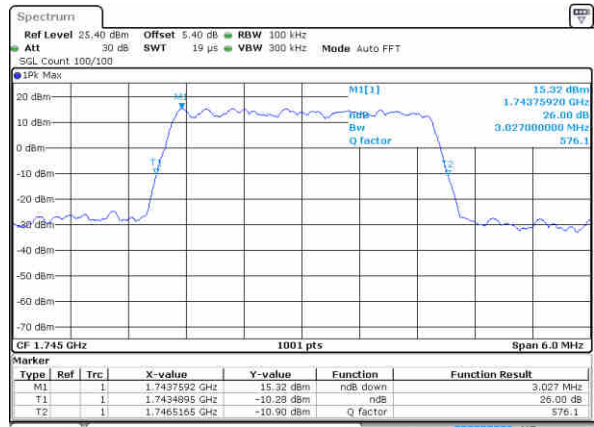
Date: 12.FEB.2020 21:10:11

Middle Channel / 3MHz / QPSK



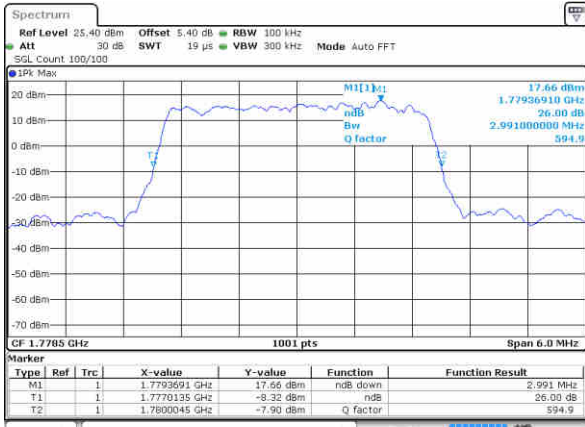
Date: 12.FEB.2020 21:11:11

Middle Channel / 3MHz / 16QAM



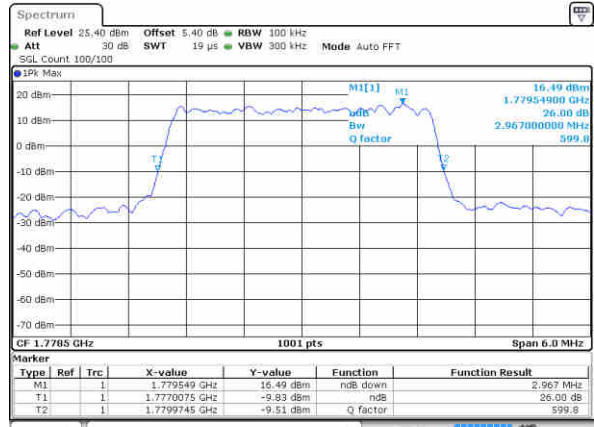
Date: 12.FEB.2020 21:11:30

Highest Channel / 3MHz / QPSK



Date: 12.FEB.2020 21:12:31

Highest Channel / 3MHz / 16QAM

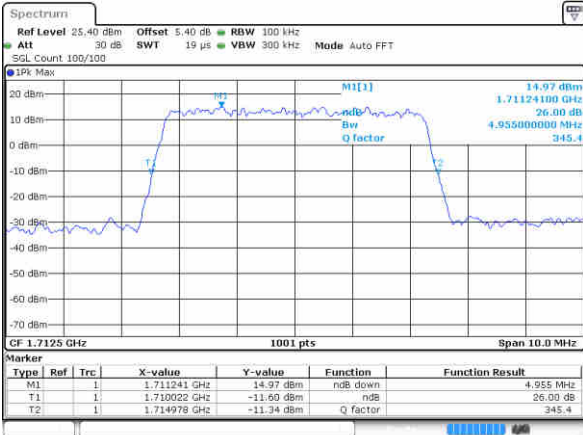


Date: 12.FEB.2020 21:12:50



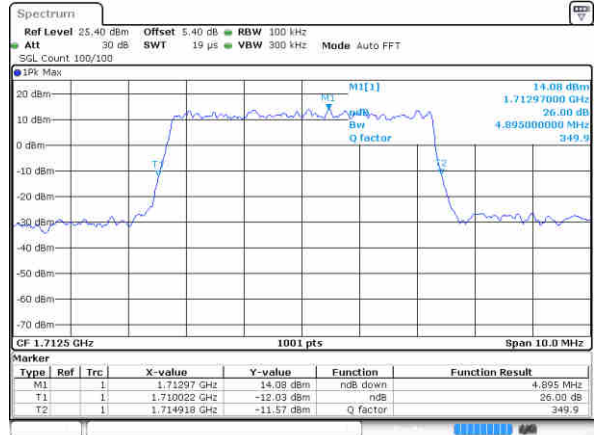
LTE Band 66

Lowest Channel / 5MHz / QPSK



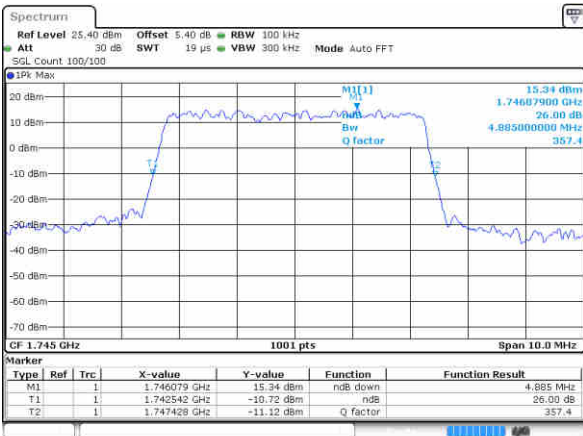
Date: 12 FEB 2020 22:06:08

Lowest Channel / 5MHz / 16QAM



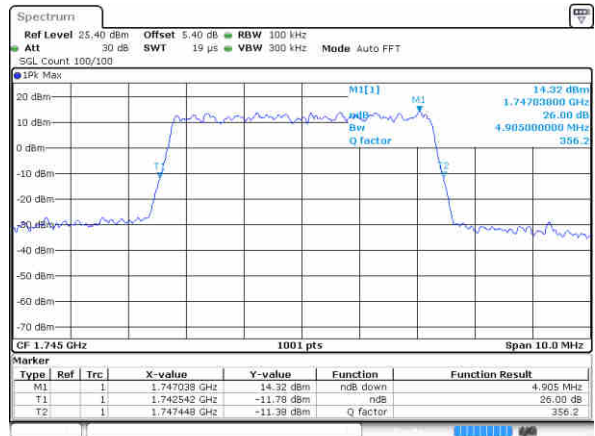
Date: 12 FEB 2020 22:06:56

Middle Channel / 5MHz / QPSK



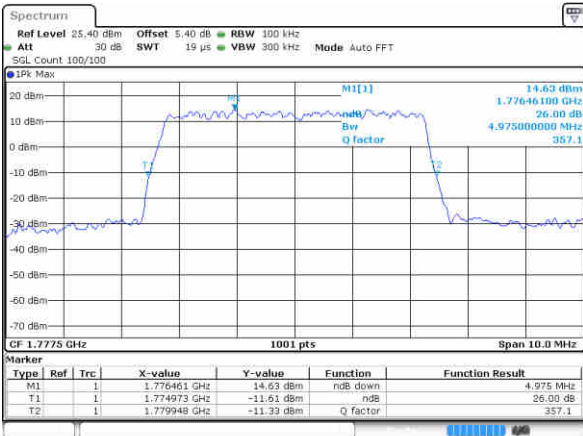
Date: 12 FEB 2020 22:08:09

Middle Channel / 5MHz / 16QAM



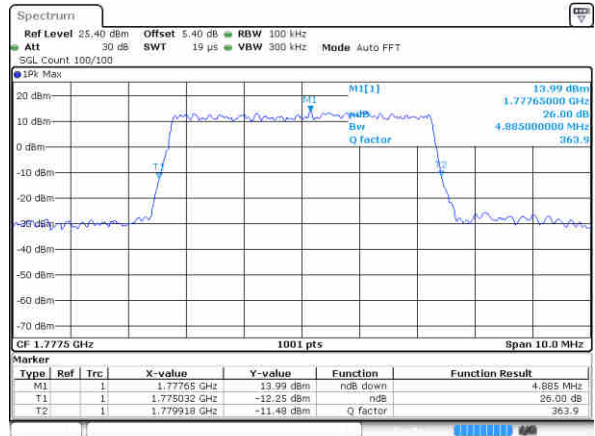
Date: 12 FEB 2020 22:08:27

Highest Channel / 5MHz / QPSK



Date: 12 FEB 2020 22:09:23

Highest Channel / 5MHz / 16QAM

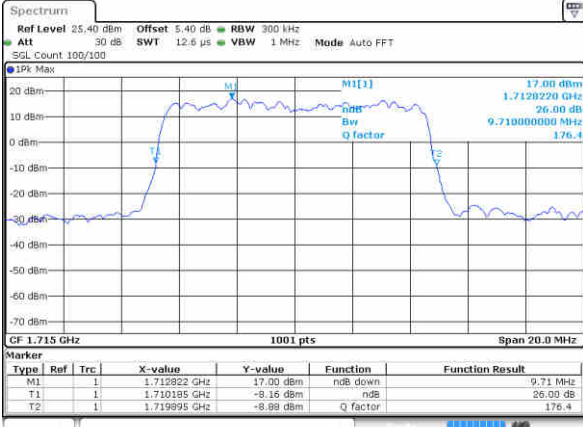


Date: 12 FEB 2020 22:09:41



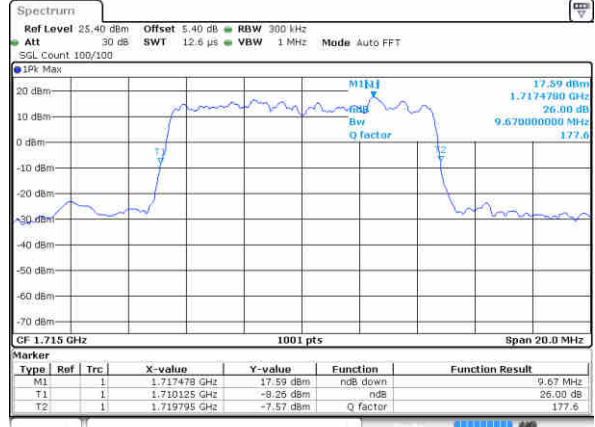
LTE Band 66

Lowest Channel / 10MHz / QPSK



Date: 12 FEB 2020 22:30:14

Lowest Channel / 10MHz / 16QAM



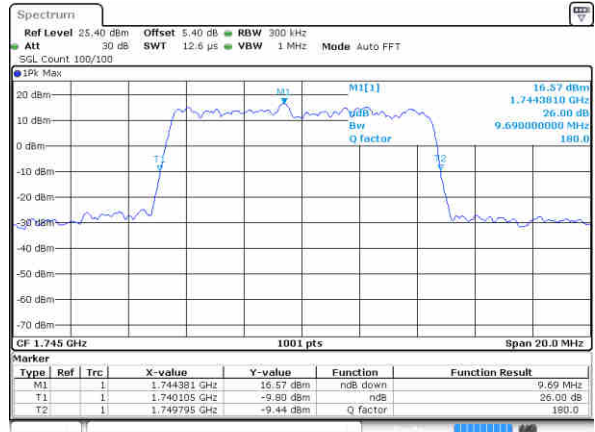
Date: 12 FEB 2020 22:30:32

Middle Channel / 10MHz / QPSK



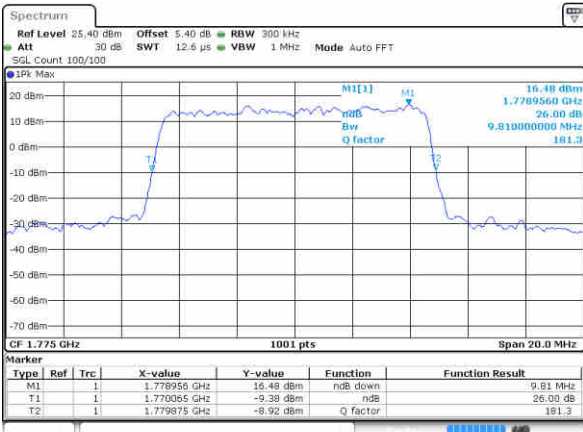
Date: 12 FEB 2020 22:31:29

Middle Channel / 10MHz / 16QAM



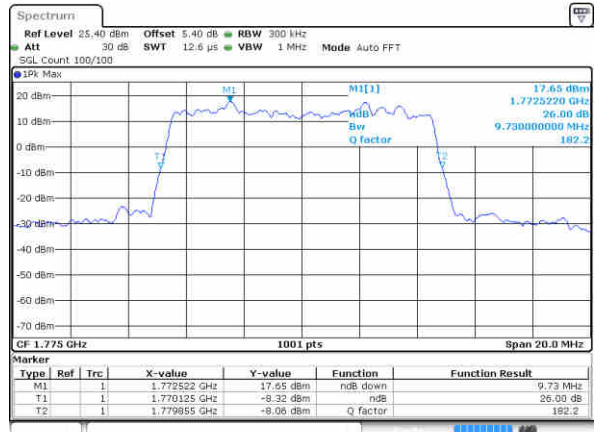
Date: 12 FEB 2020 22:31:47

Highest Channel / 10MHz / QPSK



Date: 12 FEB 2020 22:33:01

Highest Channel / 10MHz / 16QAM

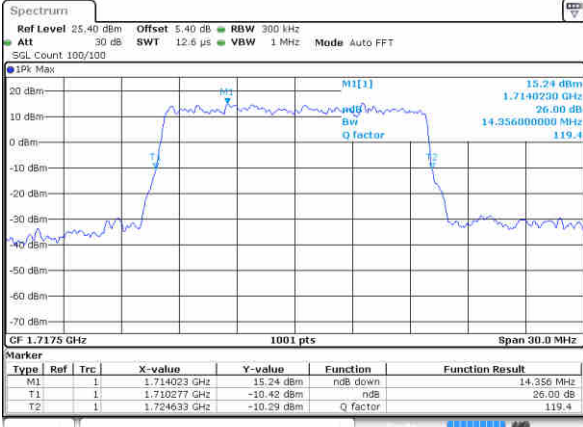


Date: 12 FEB 2020 22:33:22



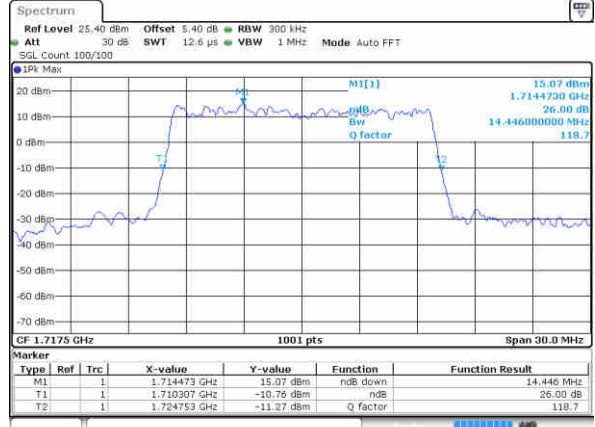
LTE Band 66

Lowest Channel / 15MHz / QPSK



Date: 12 FEB 2020 22:50:11

Lowest Channel / 15MHz / 16QAM



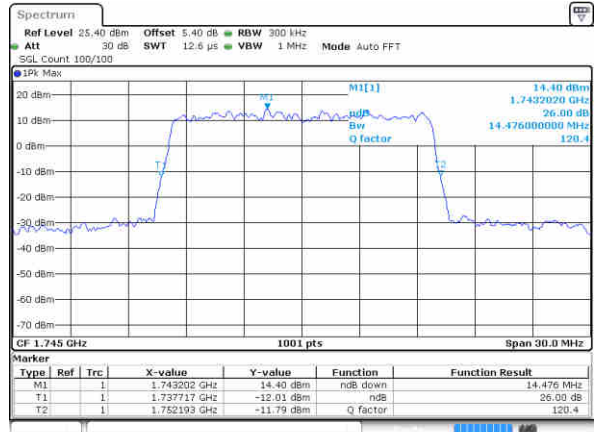
Date: 12 FEB 2020 22:50:27

Middle Channel / 15MHz / QPSK



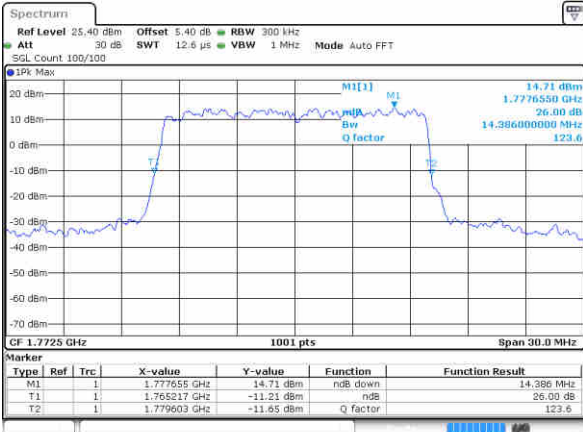
Date: 12 FEB 2020 22:51:25

Middle Channel / 15MHz / 16QAM



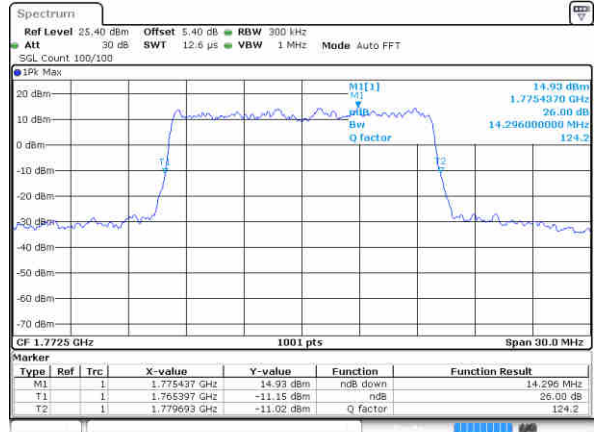
Date: 12 FEB 2020 22:50:05

Highest Channel / 15MHz / QPSK



Date: 12 FEB 2020 22:53:38

Highest Channel / 15MHz / 16QAM

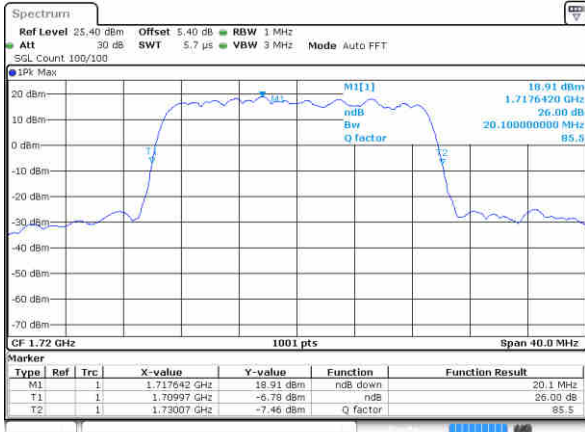


Date: 12 FEB 2020 22:53:59



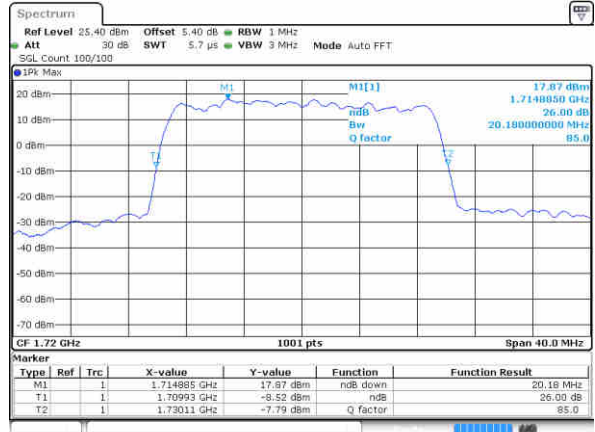
LTE Band 66

Lowest Channel / 20MHz / QPSK



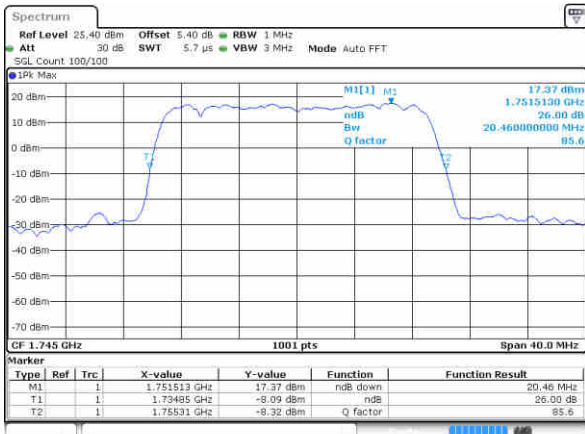
Date: 12 FEB 2020 23:12:35

Lowest Channel / 20MHz / 16QAM



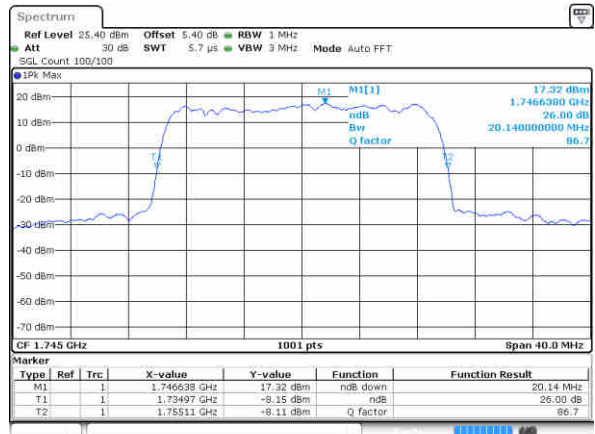
Date: 12 FEB 2020 23:12:50

Middle Channel / 20MHz / QPSK



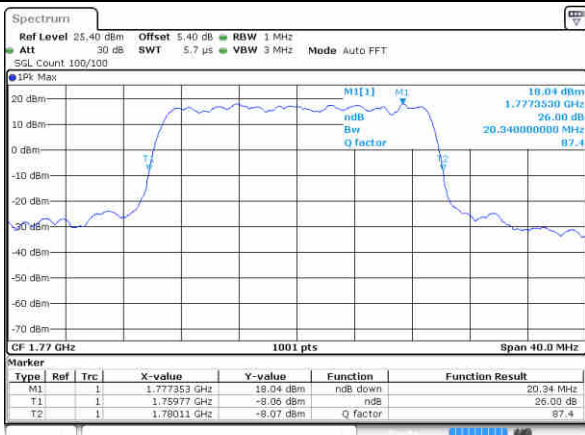
Date: 12 FEB 2020 23:11:25

Middle Channel / 20MHz / 16QAM



Date: 12 FEB 2020 23:11:43

Highest Channel / 20MHz / QPSK



Date: 12 FEB 2020 23:13:49

Highest Channel / 20MHz / 16QAM

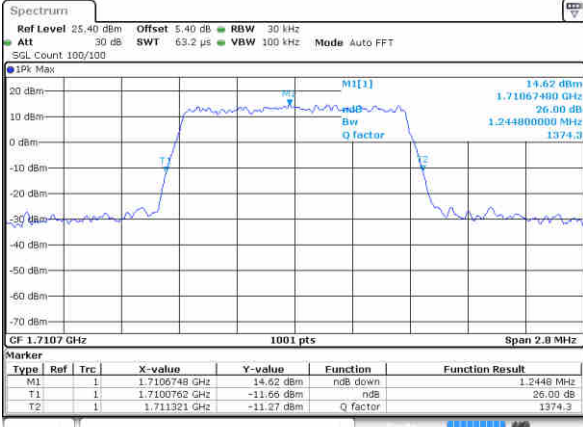


Date: 12 FEB 2020 23:14:06



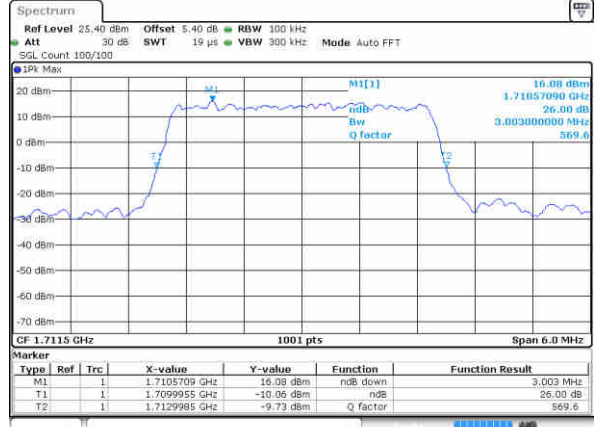
LTE Band 66

Lowest Channel / 1.4MHz / 64QAM



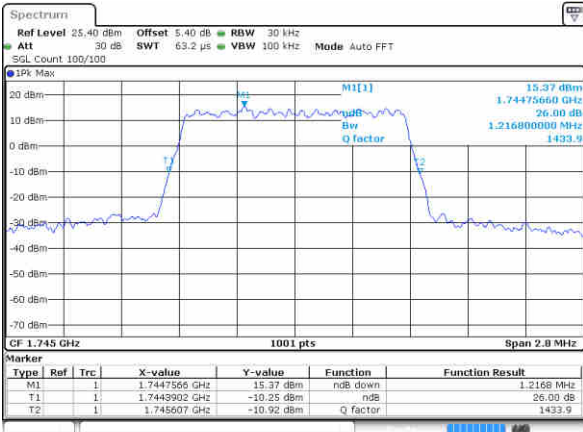
Date: 12 FEB 2020 20:07:19

Lowest Channel / 3MHz / 64QAM



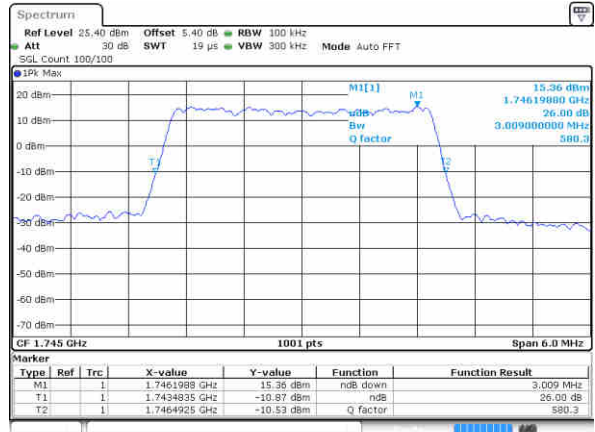
Date: 12 FEB 2020 21:10:32

Middle Channel / 20MHz / 64QAM



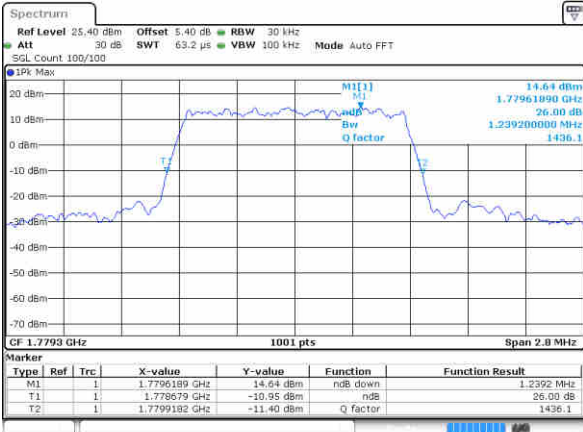
Date: 12 FEB 2020 20:08:18

Middle Channel / 3MHz / 64QAM



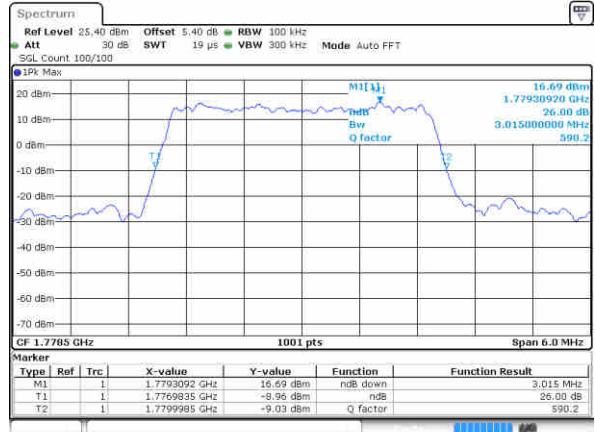
Date: 12 FEB 2020 21:11:48

Highest Channel / 20MHz / 64QAM



Date: 12 FEB 2020 20:09:52

Highest Channel / 3MHz / 64QAM

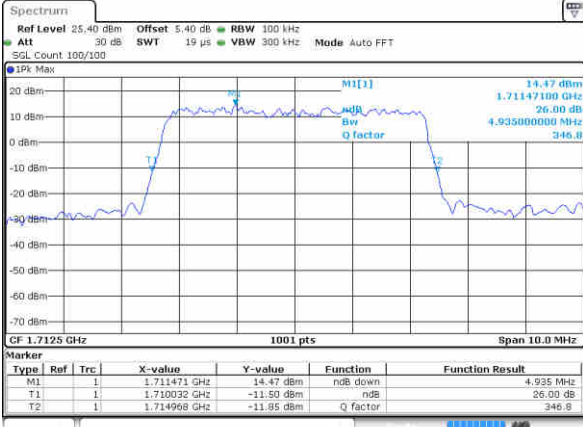


Date: 12 FEB 2020 21:13:11



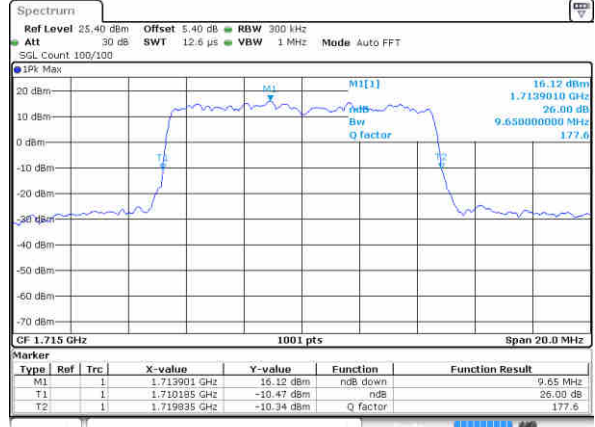
LTE Band 66

Lowest Channel / 5MHz / 64QAM



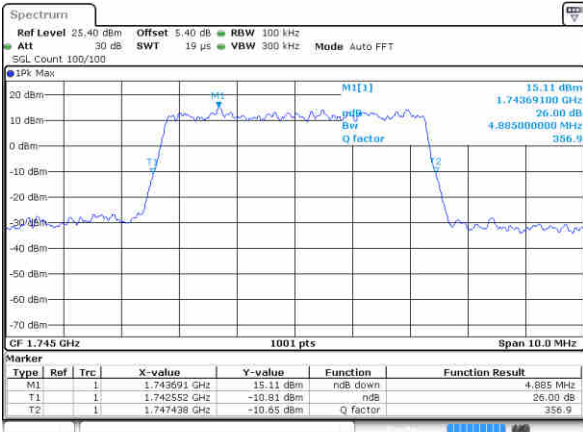
Date: 12 FEB 2020 22:07:21

Lowest Channel / 10MHz / 64QAM



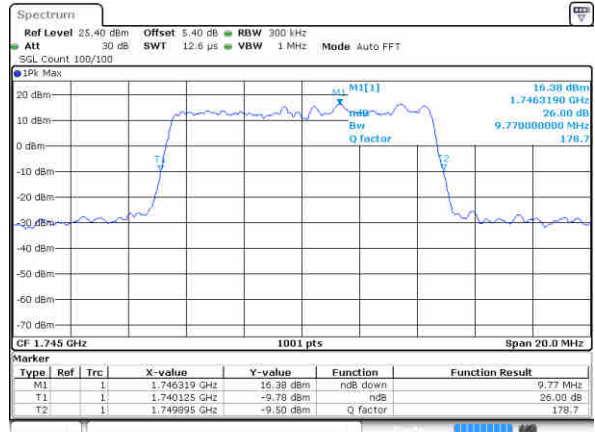
Date: 12 FEB 2020 22:30:51

Middle Channel / 5MHz / 64QAM



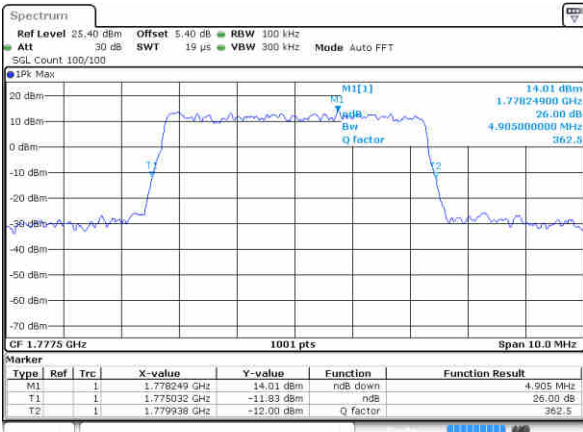
Date: 12 FEB 2020 22:08:44

Middle Channel / 10MHz / 64QAM



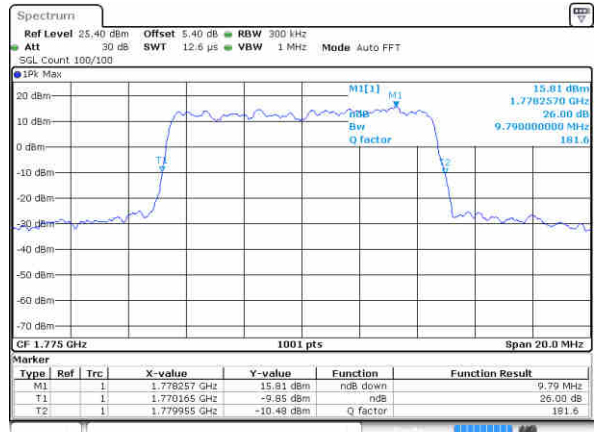
Date: 12 FEB 2020 22:32:09

Highest Channel / 5MHz / 64QAM



Date: 12 FEB 2020 22:10:00

Highest Channel / 10MHz / 64QAM

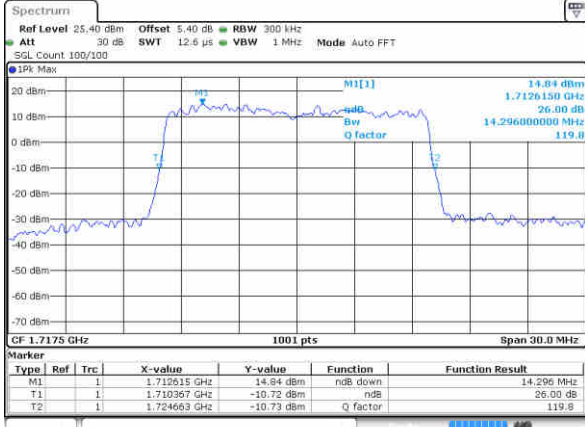


Date: 12 FEB 2020 22:33:41



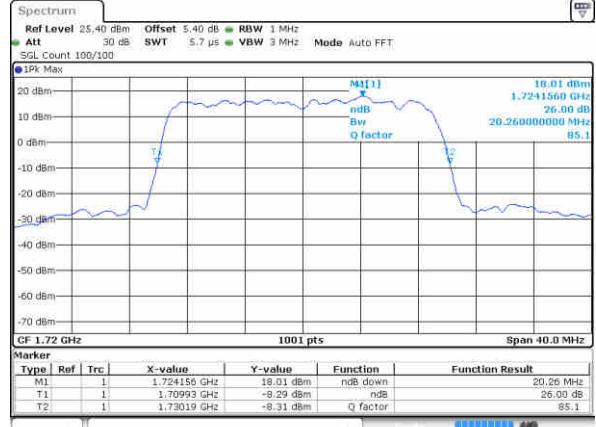
LTE Band 66

Lowest Channel / 15MHz / 64QAM



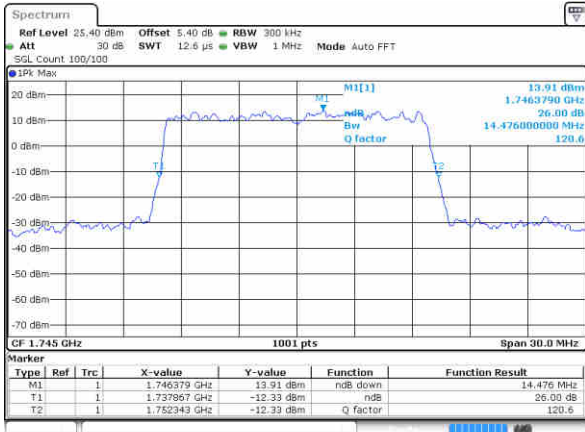
Date: 12 FEB 2020 22:50:46

Lowest Channel / 20MHz / 64QAM



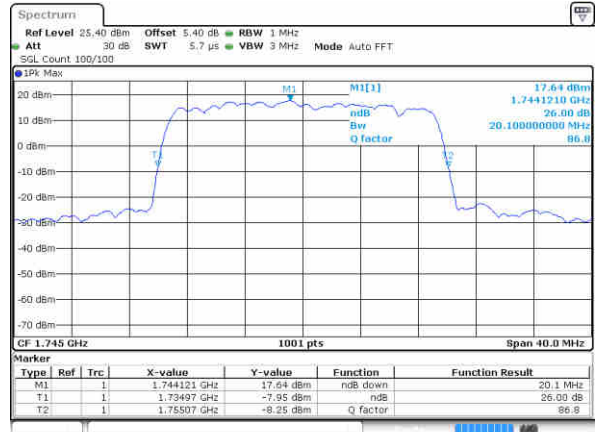
Date: 12 FEB 2020 23:13:08

Middle Channel / 15MHz / 64QAM



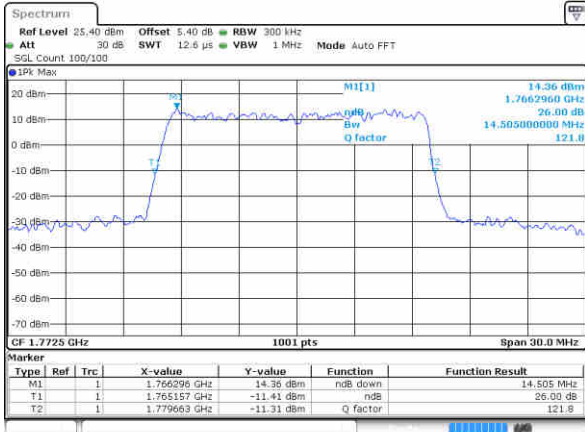
Date: 12 FEB 2020 22:52:31

Middle Channel / 20MHz / 64QAM



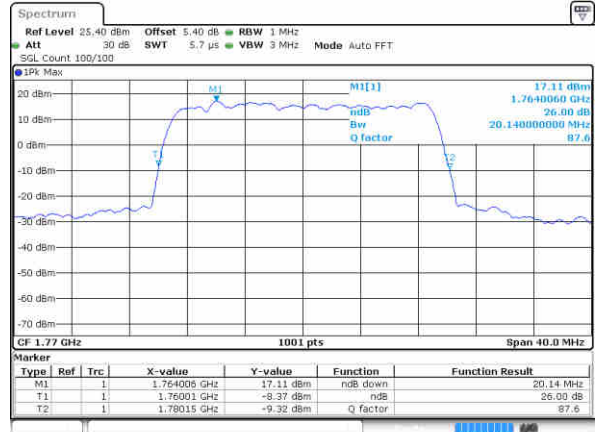
Date: 12 FEB 2020 23:12:00

Highest Channel / 15MHz / 64QAM



Date: 12 FEB 2020 22:54:16

Highest Channel / 20MHz / 64QAM



Date: 12 FEB 2020 23:14:23



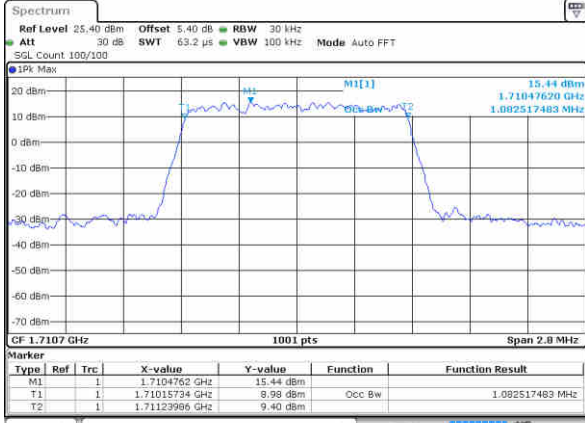
Occupied Bandwidth

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	



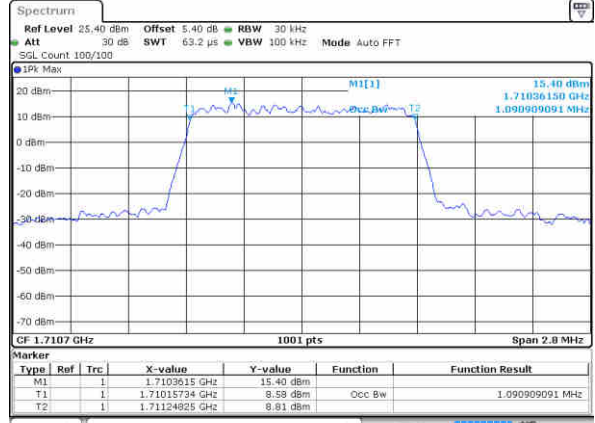
LTE Band 66

Lowest Channel / 1.4MHz / QPSK



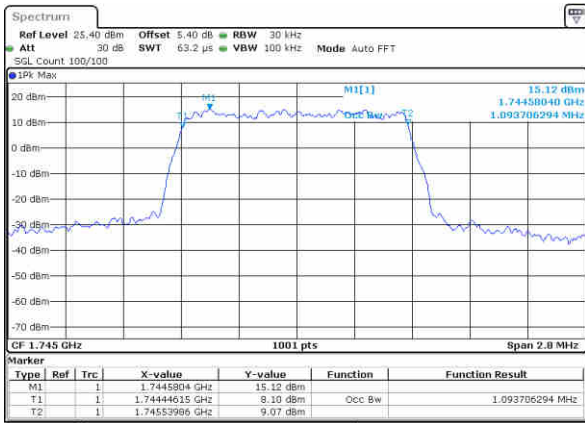
Date: 12 FEB 2020 21 02 25

Lowest Channel / 1.4MHz / 16QAM



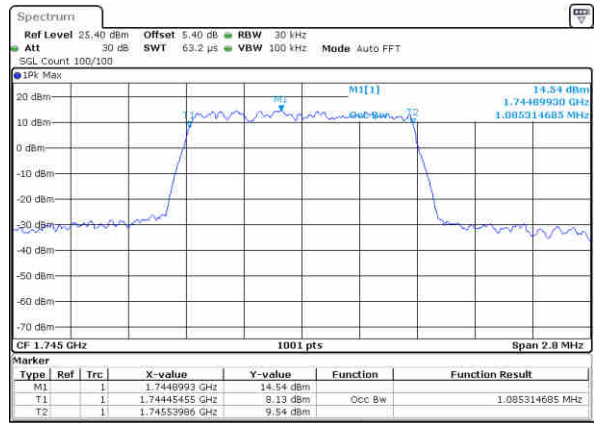
Date: 12 FEB 2020 21 02 37

Middle Channel / 1.4MHz / QPSK



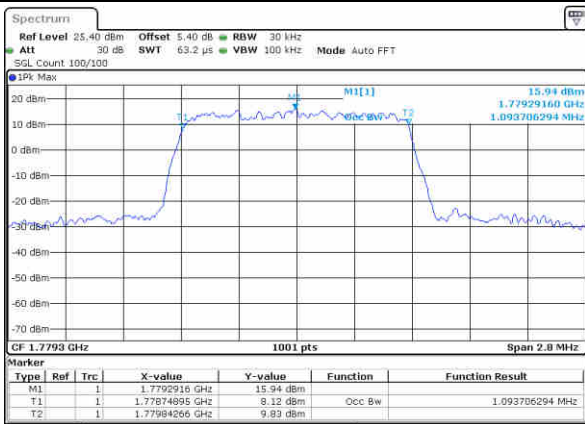
Date: 12 FEB 2020 21 03 50

Middle Channel / 1.4MHz / 16QAM



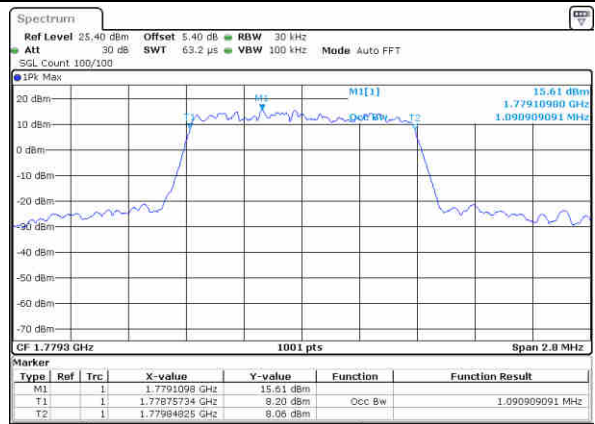
Date: 12 FEB 2020 21 04 02

Highest Channel / 1.4MHz / QPSK



Date: 12 FEB 2020 21 05 00

Highest Channel / 1.4MHz / 16QAM



Date: 12 FEB 2020 21 05 17