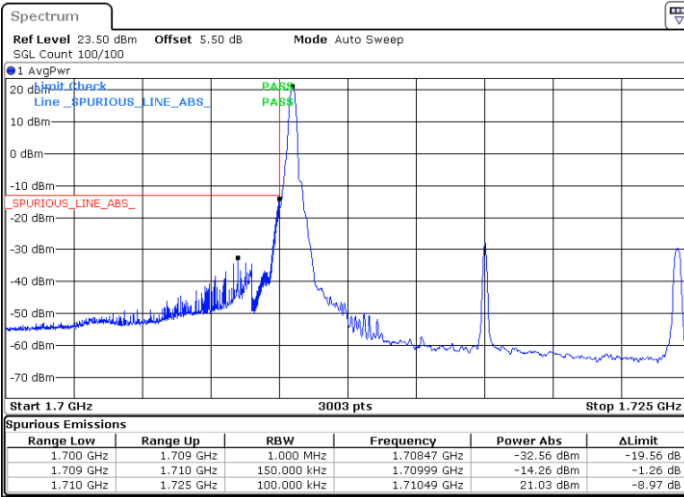




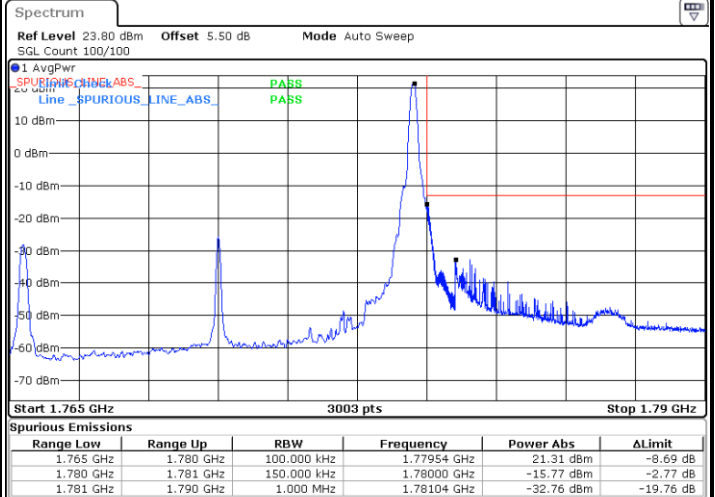
5G NR n66 / 15MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX



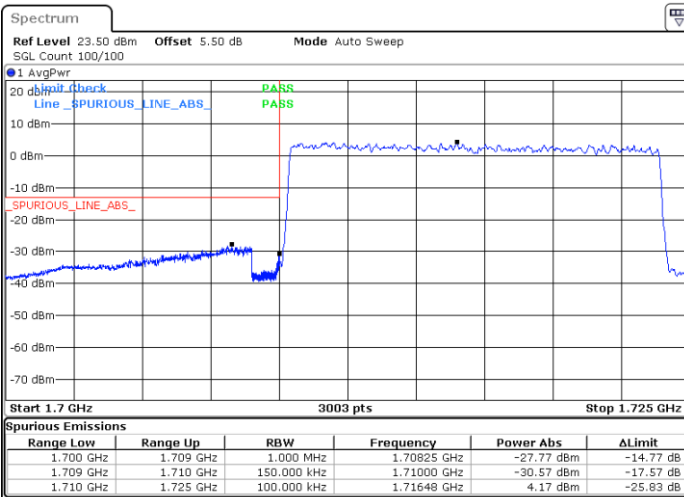
Date: 4 SEP.2020 15:32:28



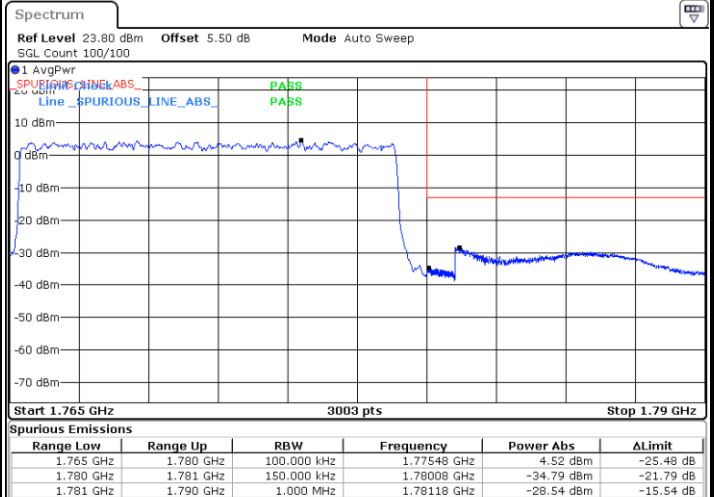
Date: 4 SEP.2020 16:20:43

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 4 SEP.2020 15:27:33



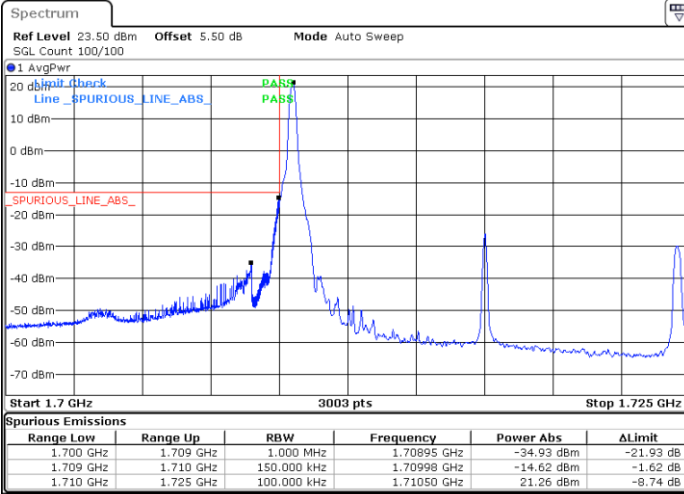
Date: 4 SEP.2020 16:16:41



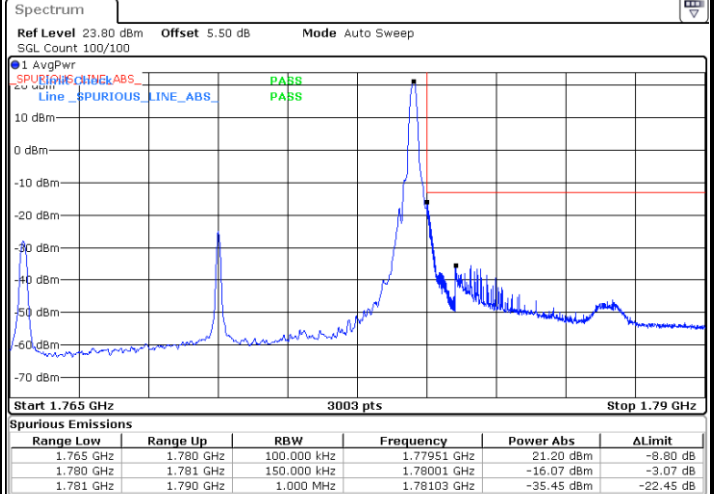
5G NR n66 / 15MHz / DFT-s-OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX



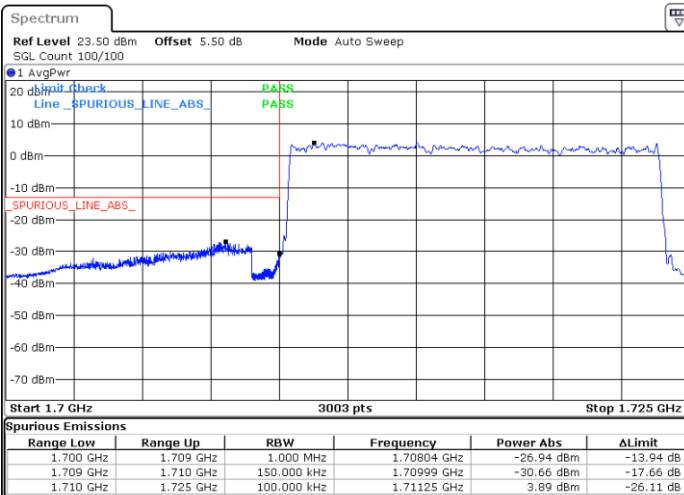
Date: 4 SEP.2020 15:33:31



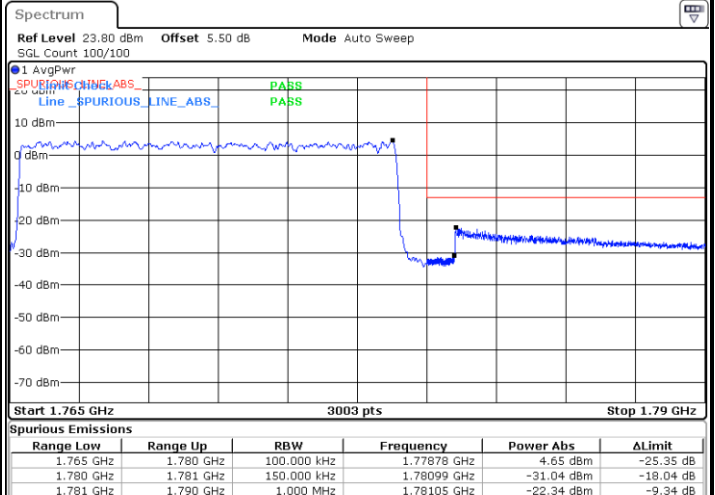
Date: 4 SEP.2020 16:20:23

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 4 SEP.2020 15:28:05



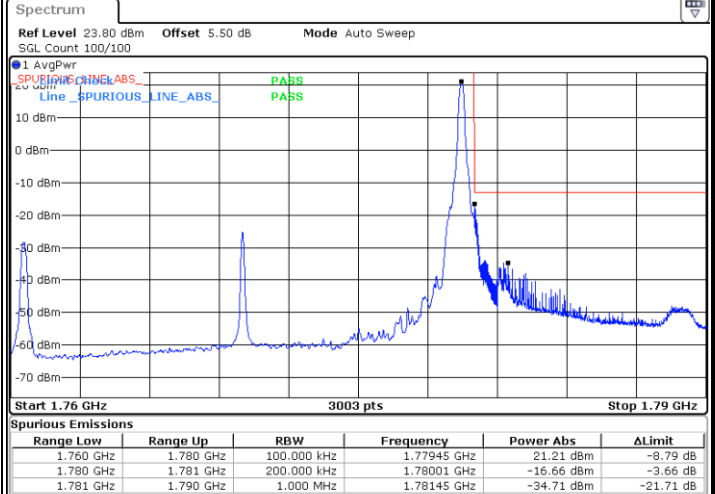
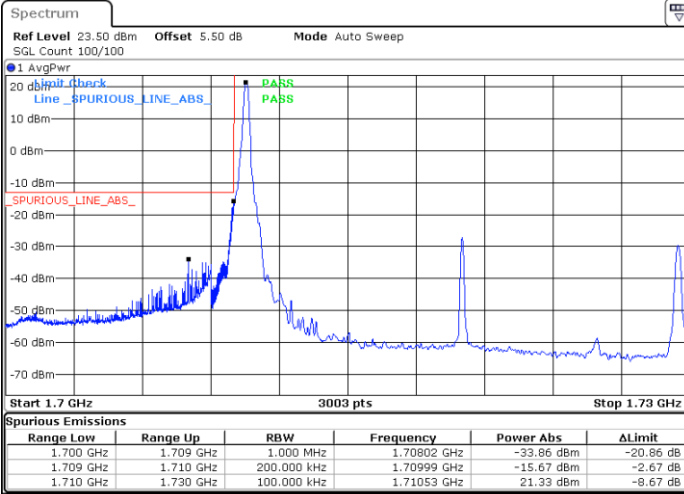
Date: 4 SEP.2020 16:17:14



5G NR n66 / 20MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

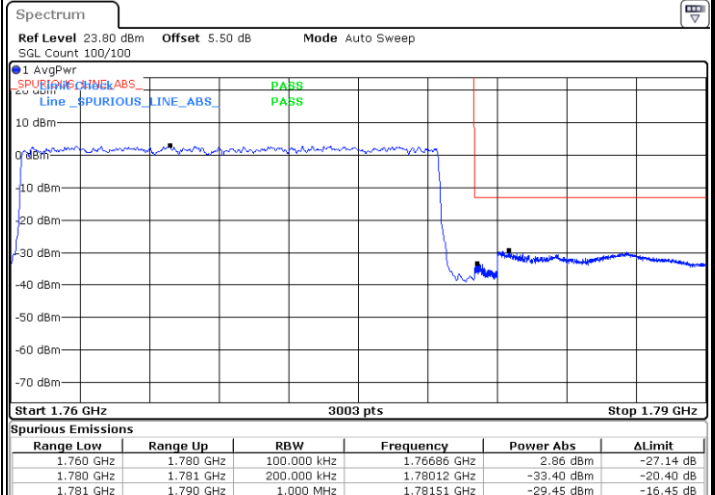
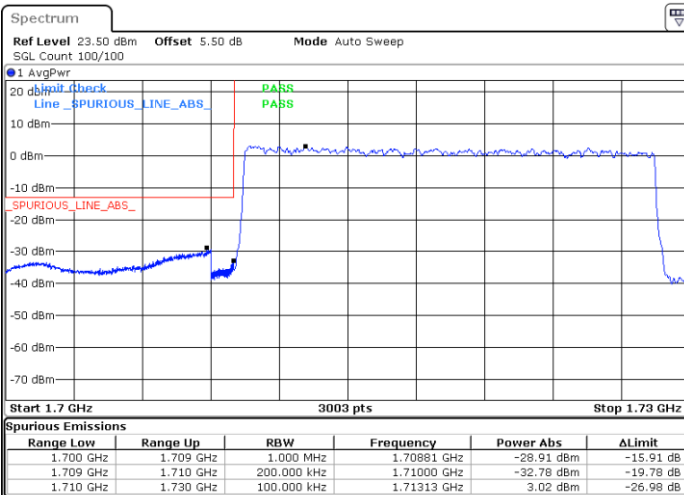


Date: 4 SEP.2020 16:32:32

Date: 4 SEP.2020 16:59:21

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 4 SEP.2020 16:27:24

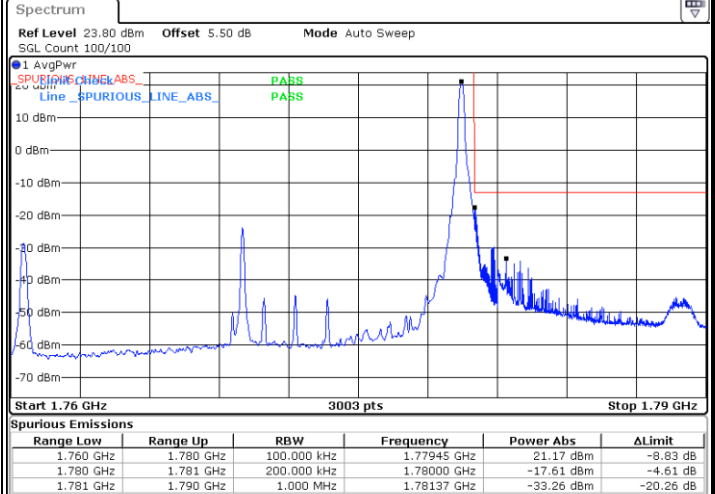
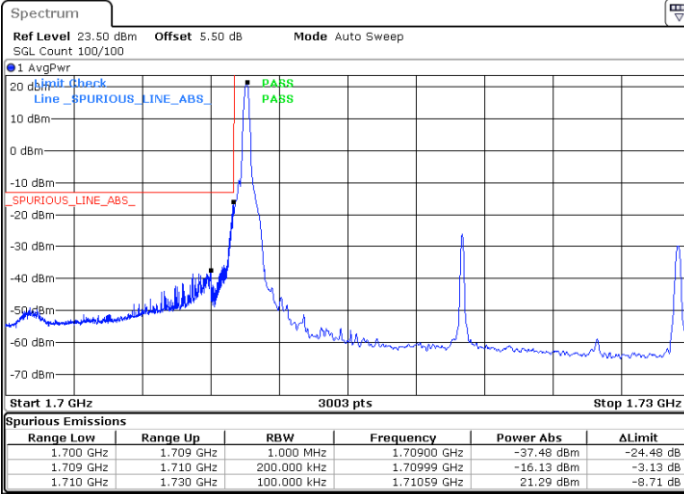
Date: 4 SEP.2020 16:58:59



5G NR n66 / 20MHz / DFT-s-OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

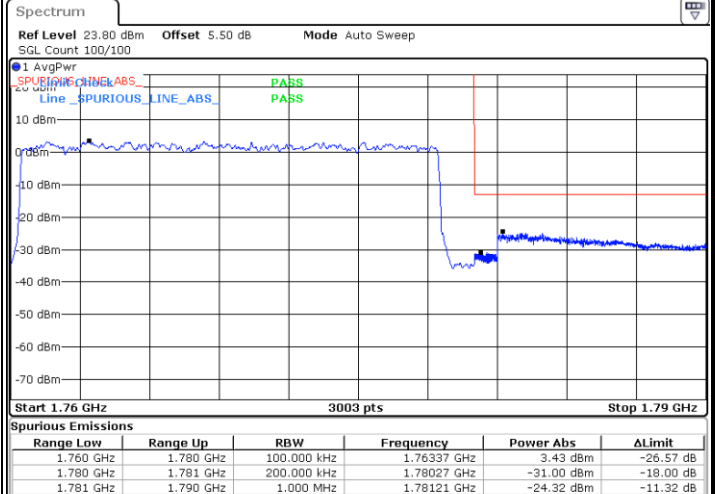
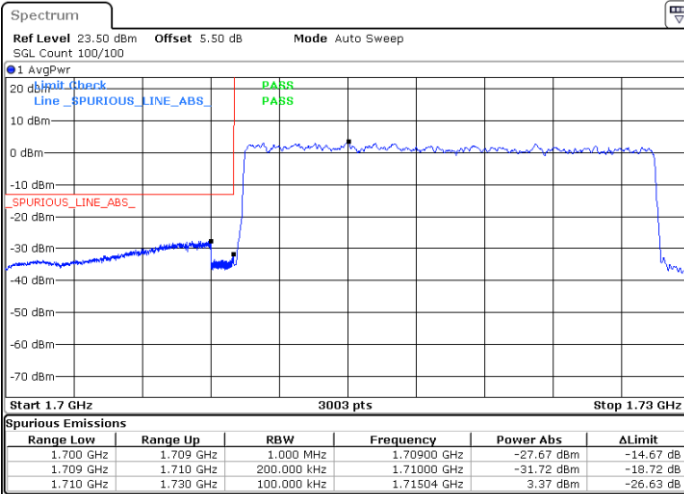


Date: 4 SEP.2020 16:33:43

Date: 4 SEP.2020 16:59:37

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

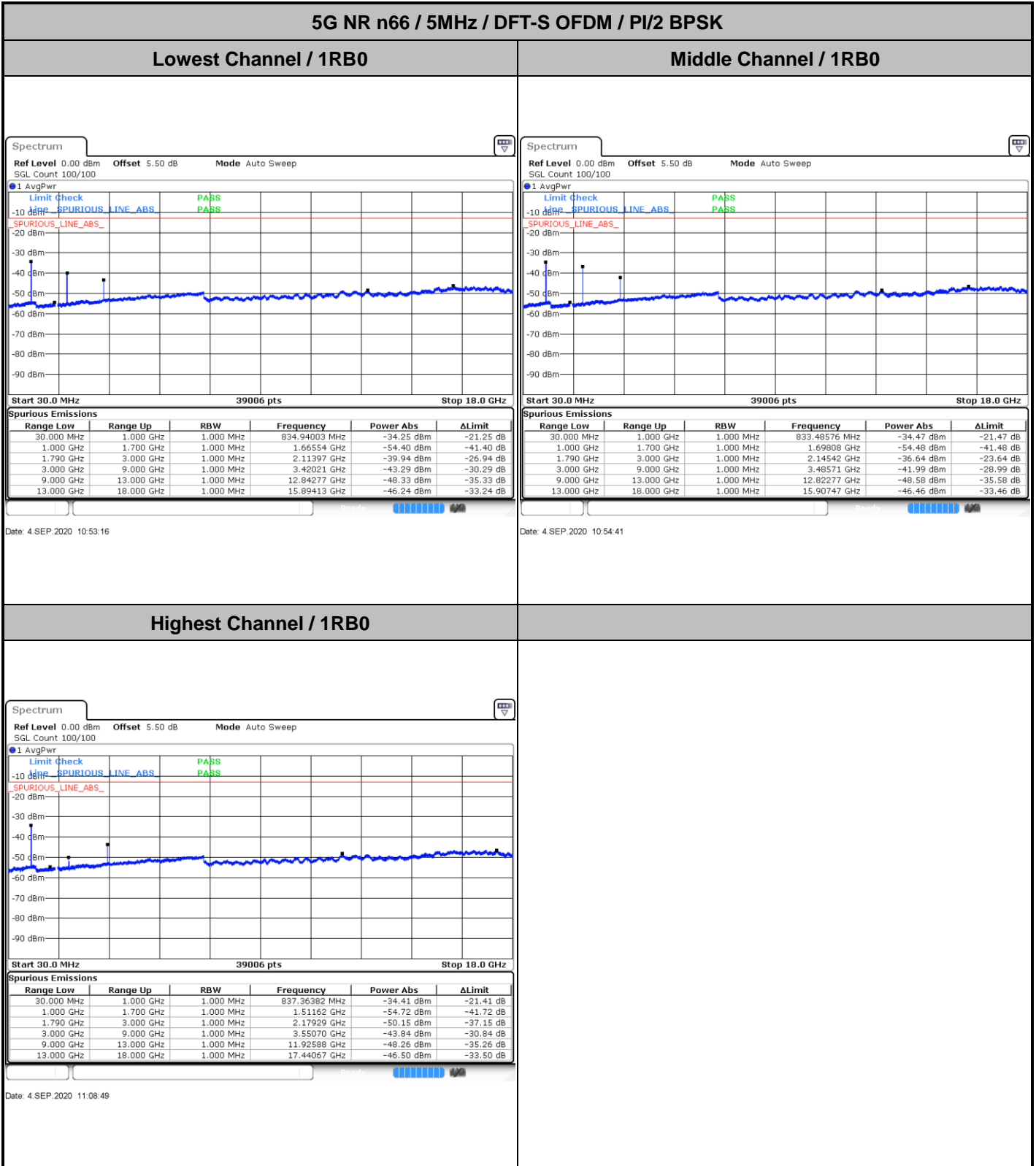


Date: 4 SEP.2020 16:28:07

Date: 4 SEP.2020 16:58:13



Conducted Spurious Emission

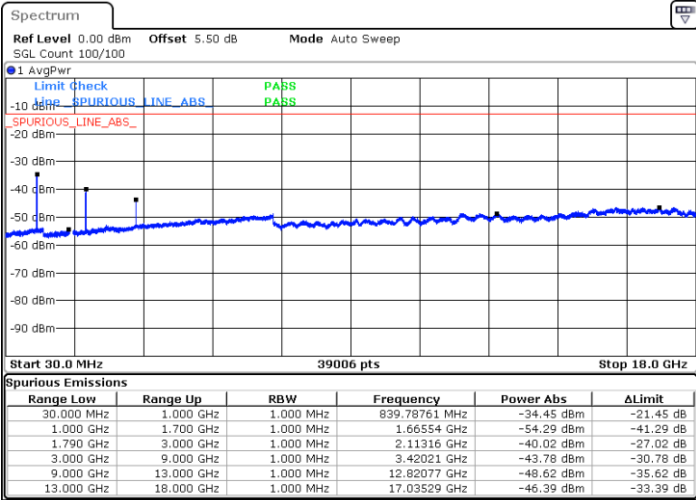




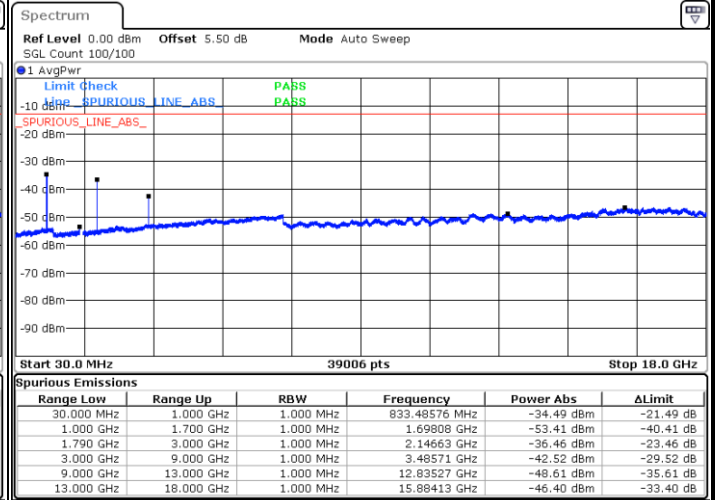
5G NR n66 / 5MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB0

Middle Channel / 1RB0

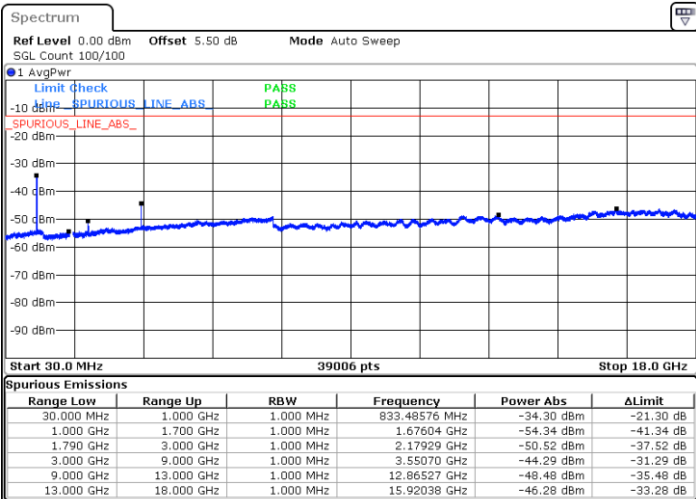


Date: 4 SEP.2020 10:50:53



Date: 4 SEP.2020 10:56:38

Highest Channel / 1RB0



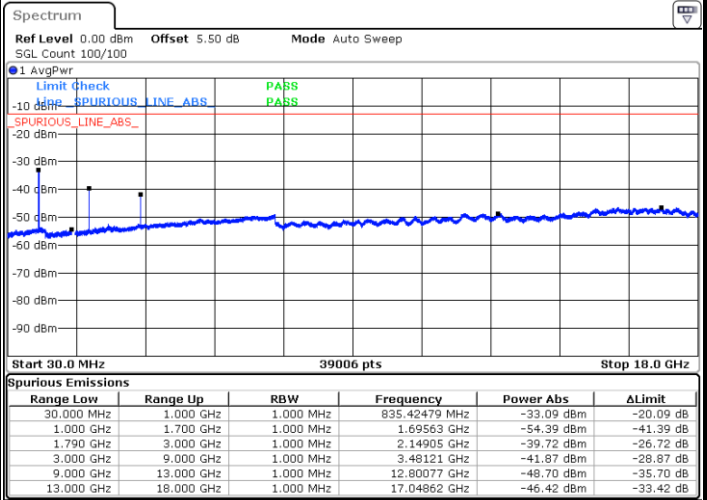
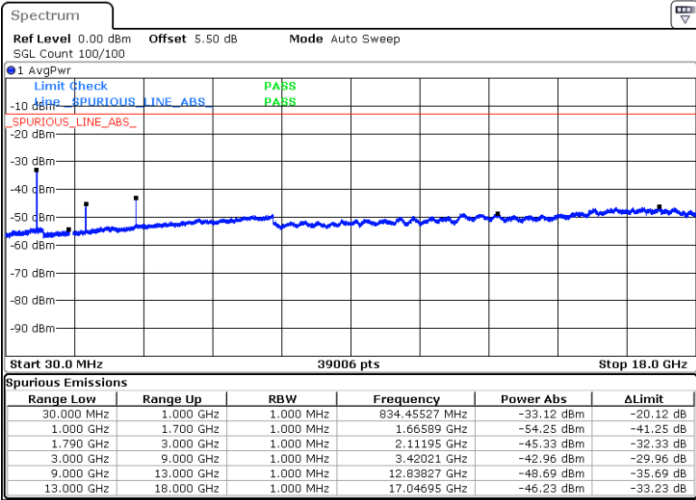
Date: 4 SEP.2020 11:10:17



5G NR n66 / 10MHz / DFT-S OFDM / PI/2 BPSK

Lowest Channel / 1RB0

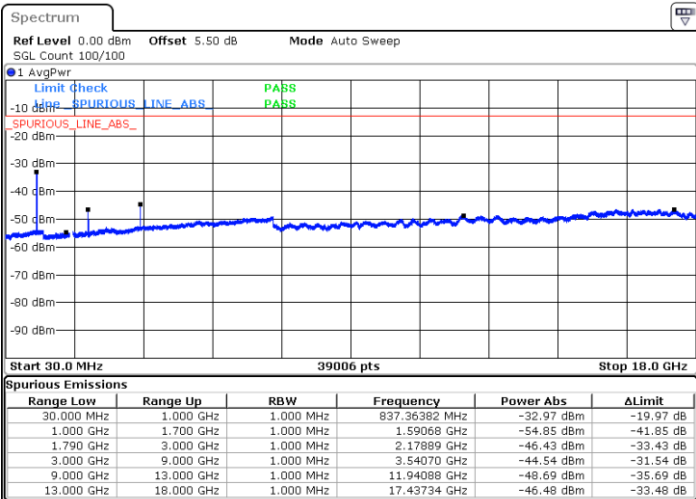
Middle Channel / 1RB0



Date: 4 SEP.2020 14:42:17

Date: 4 SEP.2020 14:49:54

Highest Channel / 1RB0

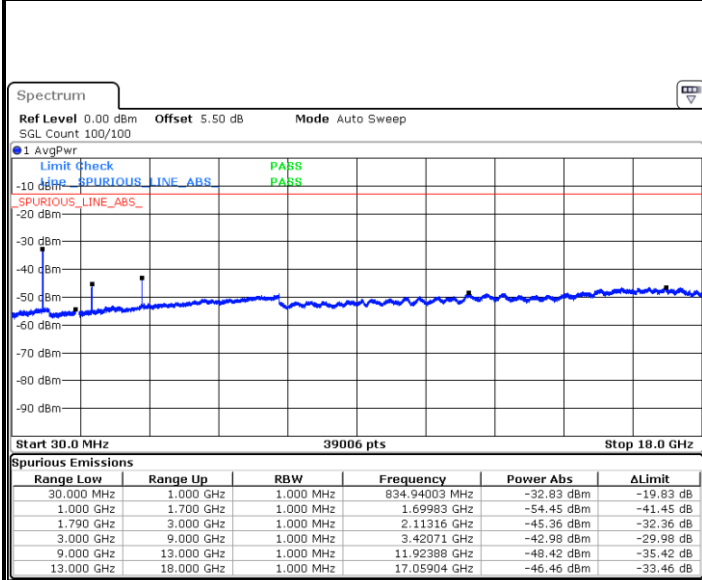


Date: 4 SEP.2020 15:03:00



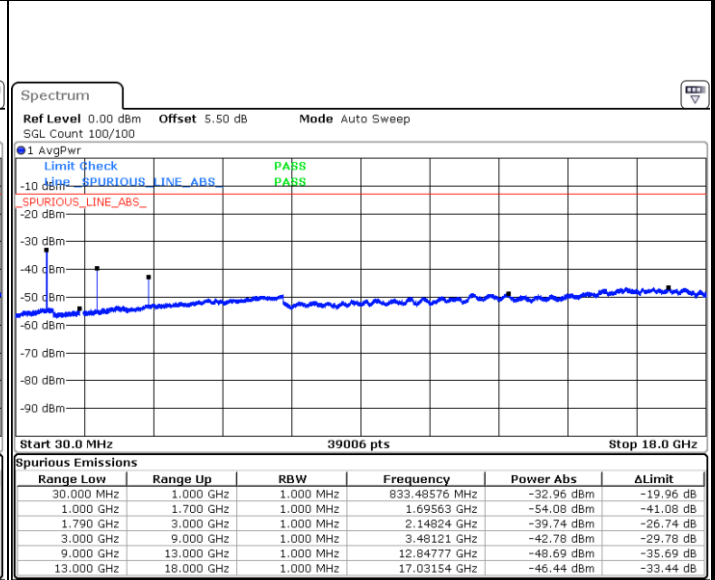
5G NR n66 / 10MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB0



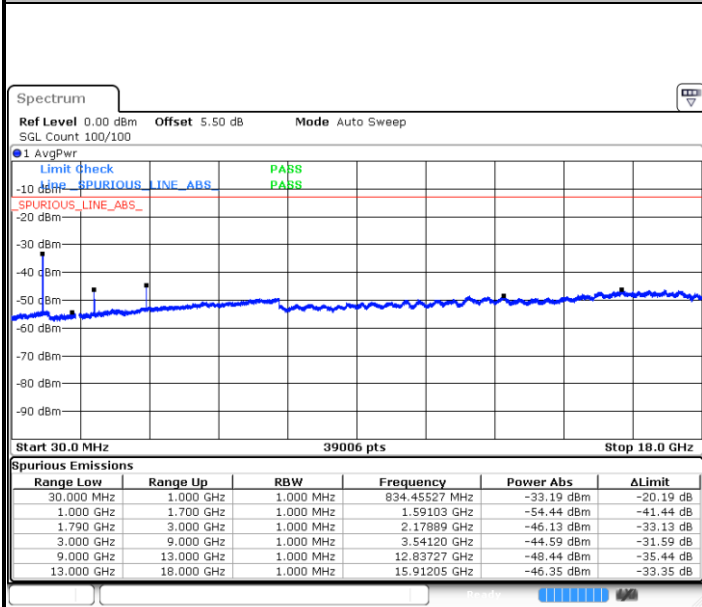
Date: 4 SEP.2020 14:43:13

Middle Channel / 1RB0



Date: 4 SEP.2020 14:50:42

Highest Channel / 1RB0

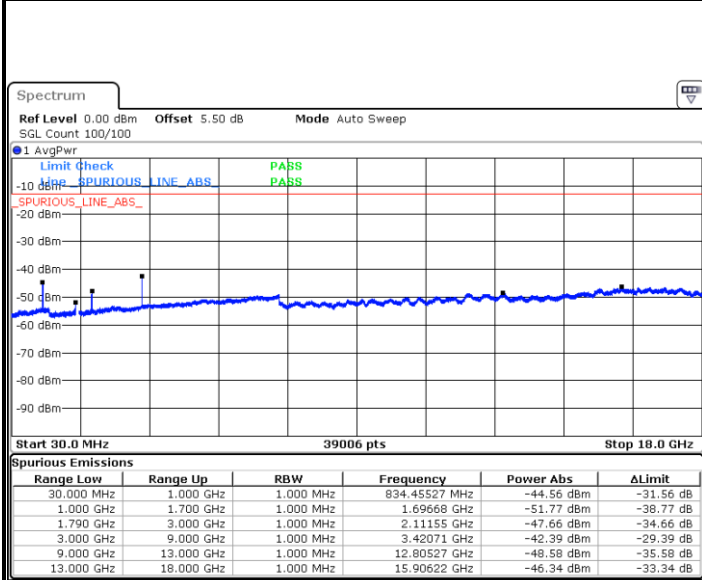


Date: 4 SEP.2020 15:04:32



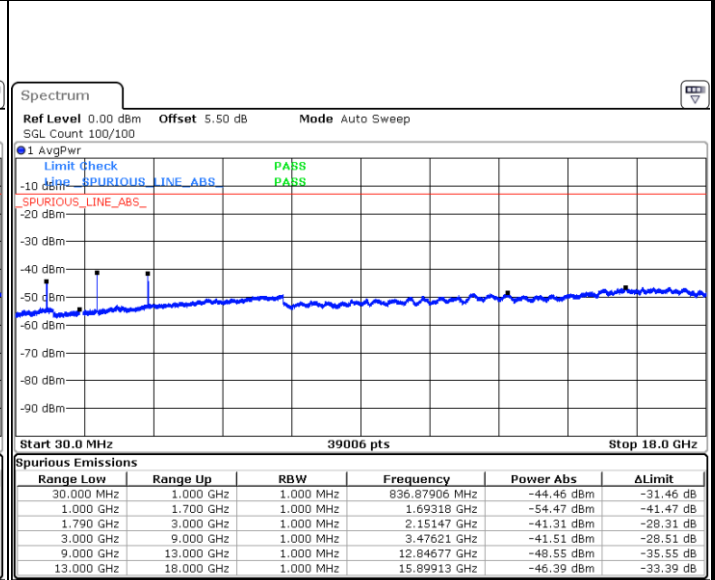
5G NR n66 / 15MHz / DFT-S OFDM / PI/2 BPSK

Lowest Channel / 1RB0



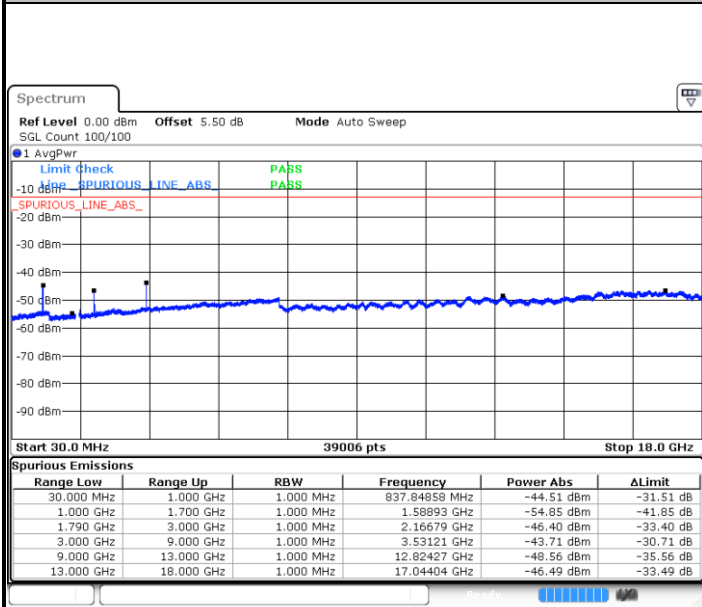
Date: 4 SEP.2020 15:33:07

Middle Channel / 1RB0



Date: 4 SEP.2020 15:38:31

Highest Channel / 1RB0

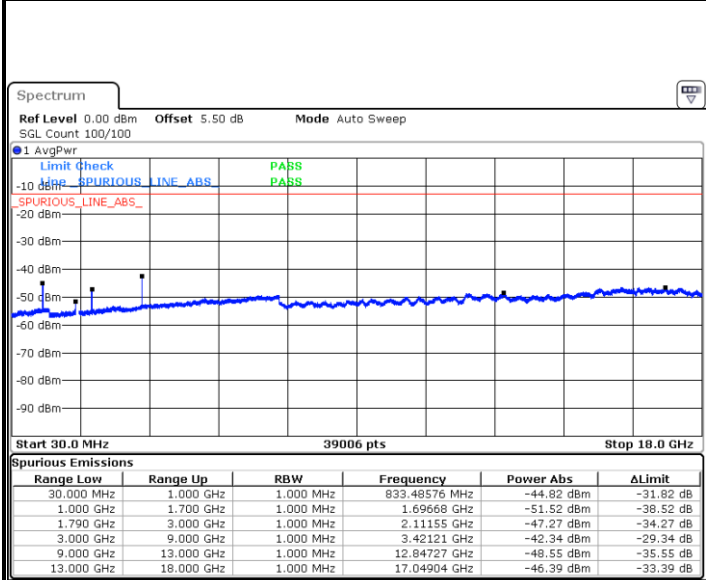


Date: 4 SEP.2020 16:21:28



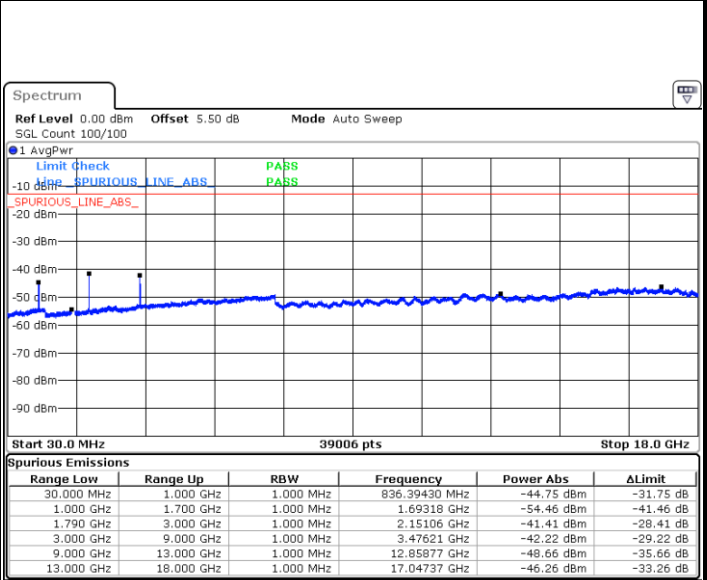
5G NR n66 / 15MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB0



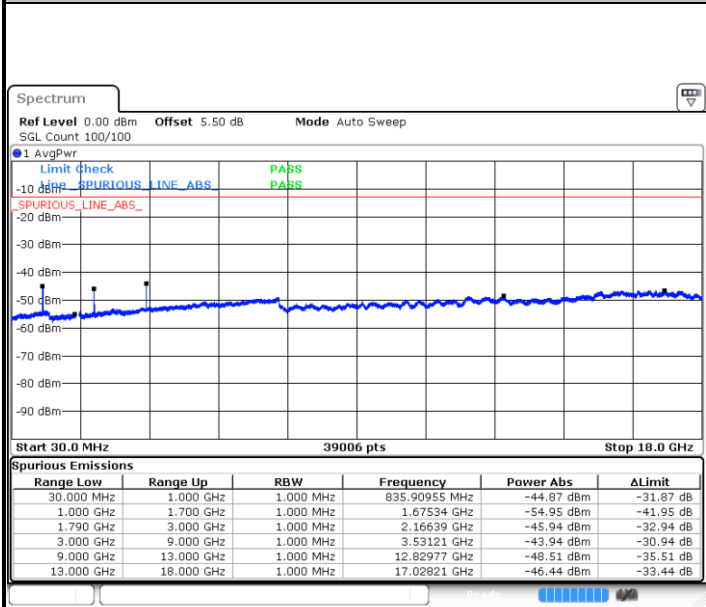
Date: 4 SEP.2020 15:34:10

Middle Channel / 1RB0



Date: 4 SEP.2020 15:39:15

Highest Channel / 1RB0



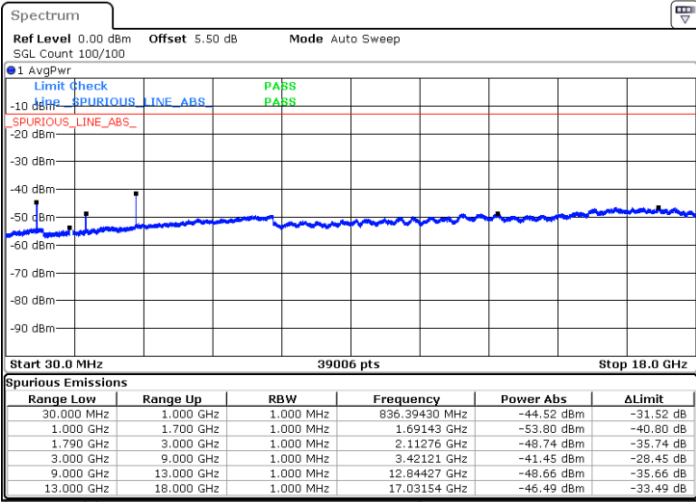
Date: 4 SEP.2020 16:22:52



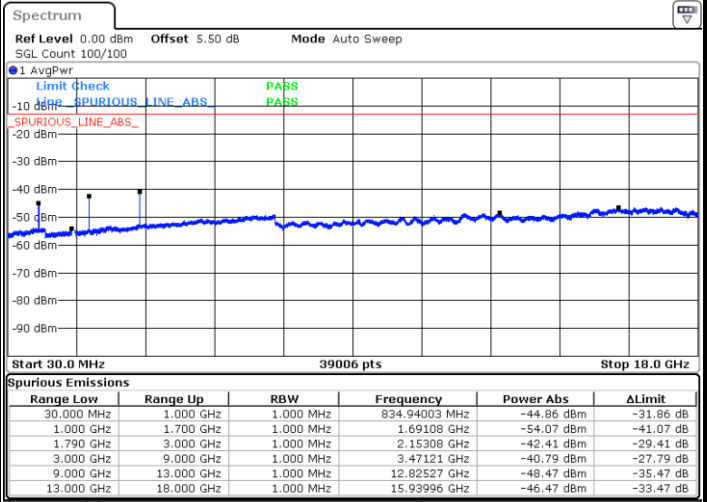
5G NR n66 / 20MHz / DFT-S OFDM / PI/2 BPSK

Lowest Channel / 1RB0

Middle Channel / 1RB0

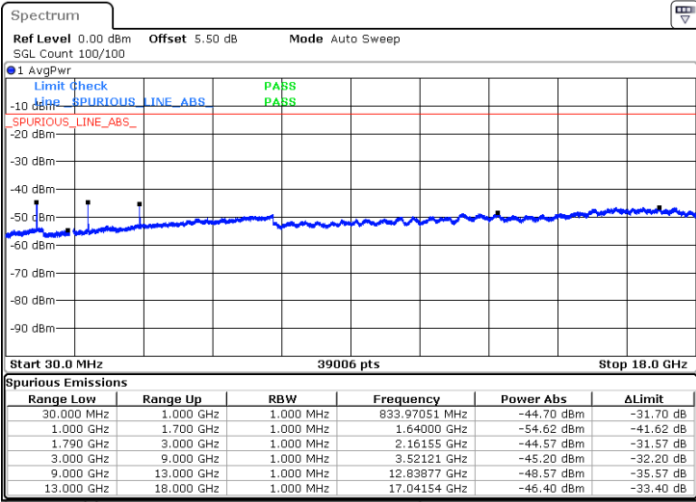


Date: 4 SEP.2020 16:33:17



Date: 4 SEP.2020 16:49:18

Highest Channel / 1RB0



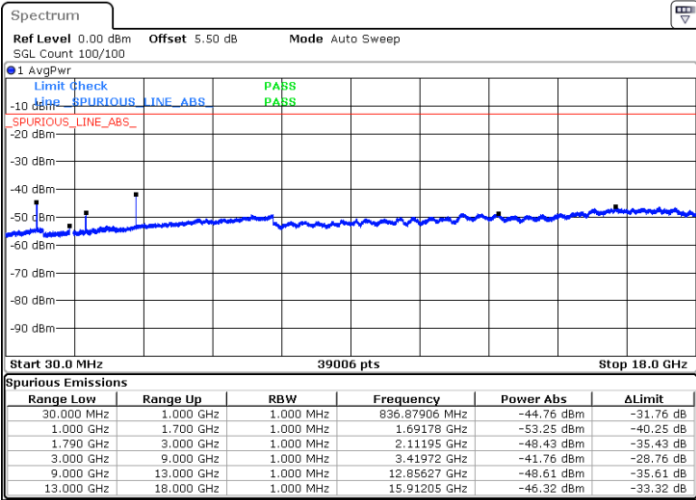
Date: 4 SEP.2020 17:03:05



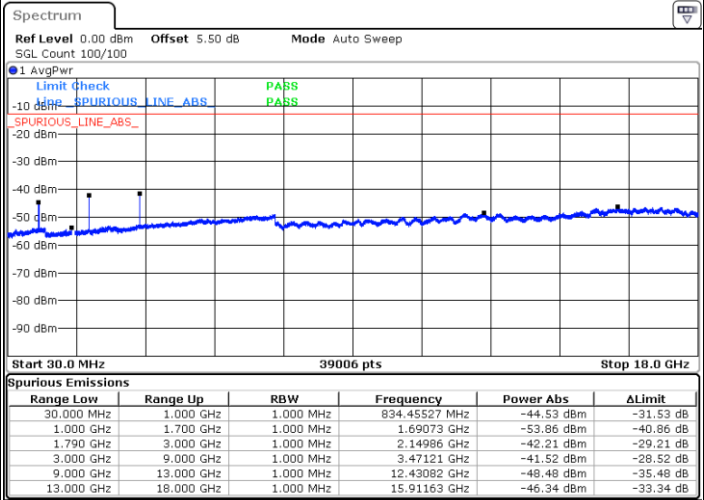
5G NR n66 / 20MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB0

Middle Channel / 1RB0

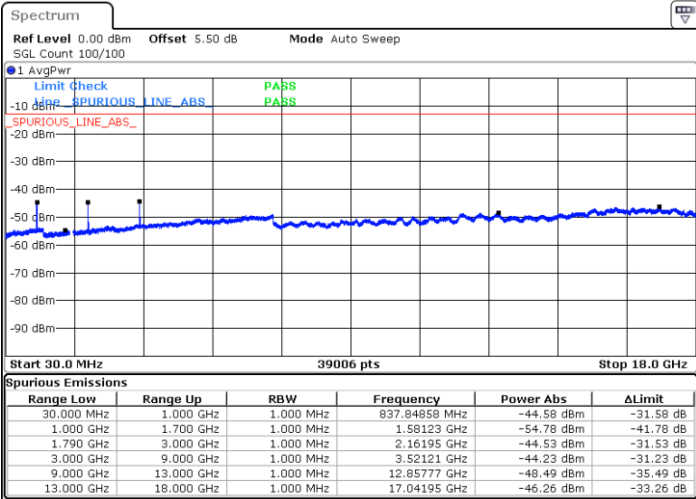


Date: 4 SEP.2020 16:34:20



Date: 4 SEP.2020 16:50:10

Highest Channel / 1RB0



Date: 4 SEP.2020 17:03:58



Frequency Stability

Test Conditions		5G NR n66 (PI/2BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0008	PASS
40	Normal Voltage	0.0006	
30	Normal Voltage	0.0008	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0009	
0	Normal Voltage	0.0005	
-10	Normal Voltage	0.0025	
-20	Normal Voltage	0.0006	
-30	Normal Voltage	0.0005	
20	Maximum Voltage	0.0014	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0008	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



5G NR n71

Peak-to-Average Ratio

Mode	5G NR n71 / 20MHz / DFT-S OFDM		
Mod.	PI/2 BPSK	QPSK	Limit: 13dB
RB Size	Full RB	Full RB	Result
Lowest CH	3.65	4.46	PASS
Middle CH	3.42	4.35	
Highest CH	3.51	4.38	
Mode	5G NR n71 / 20MHz / DFT-S OFDM		
Mod.	PI/2 BPSK	QPSK	Limit: 13dB
RB Size	1 RB0	1 RB0	Result
Lowest CH	4.09	3.80	PASS
Middle CH	3.97	3.71	
Highest CH	4.09	3.88	



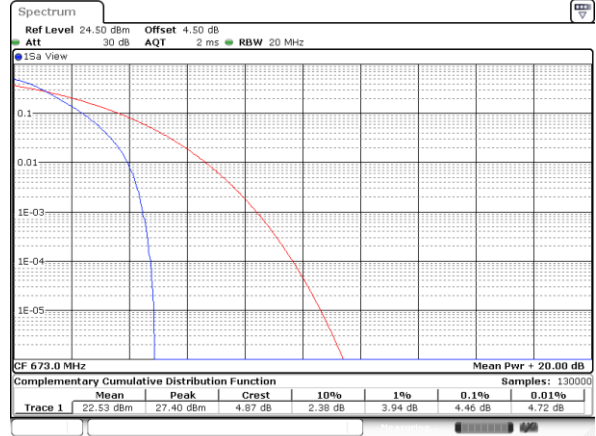
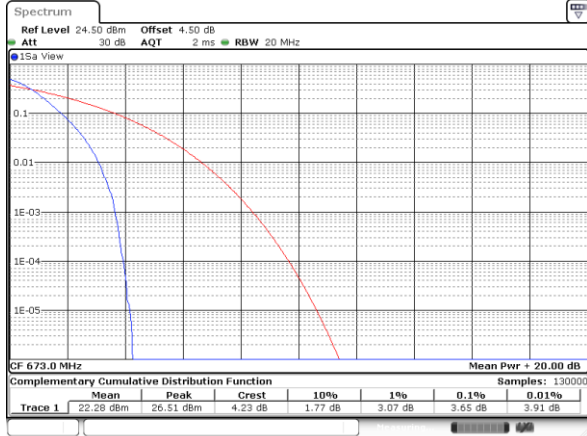
5G NR n71 / 20MHz / DFT-S OFDM

PI/2 BPSK

QPSK

Lowest Channel / Full RB

Lowest Channel / Full RB

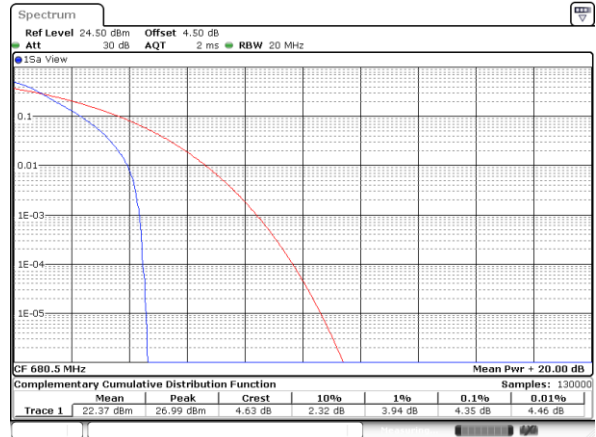
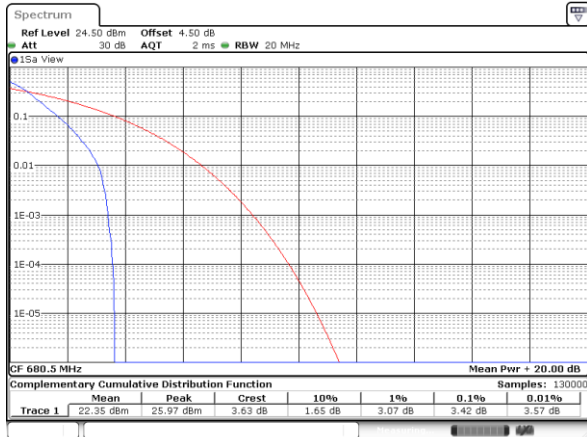


Date: 5 SEP 2020 03:22:48

Date: 5 SEP 2020 03:22:54

Middle Channel / Full RB

Middle Channel / Full RB

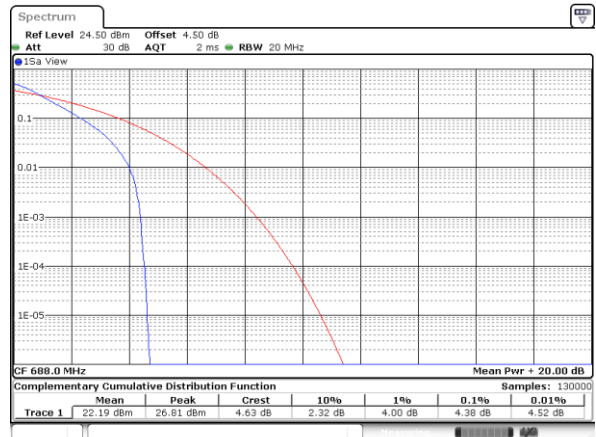
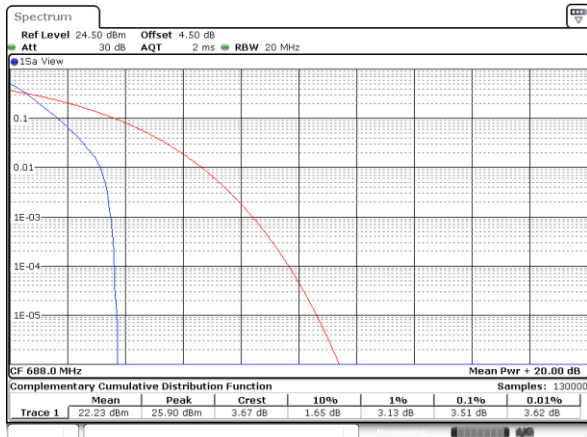


Date: 5 SEP 2020 03:13:23

Date: 5 SEP 2020 03:13:34

Highest Channel / Full RB

Highest Channel / Full RB



Date: 5 SEP 2020 03:20:46

Date: 5 SEP 2020 03:20:54



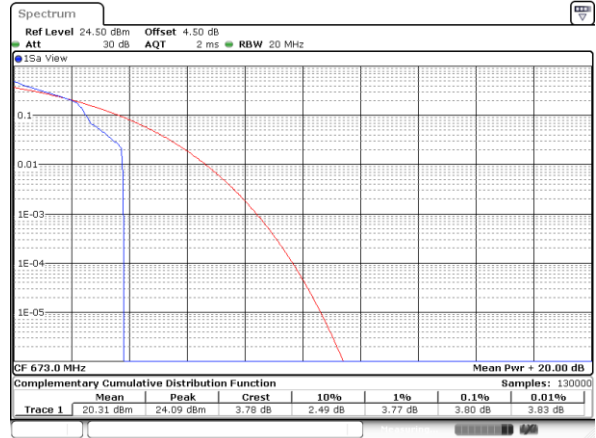
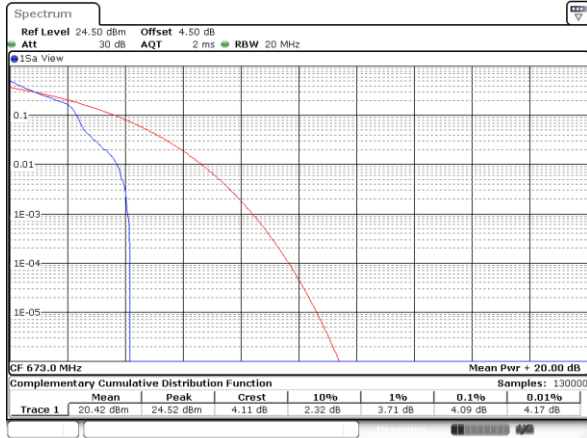
5G NR n71 / 20MHz / DFT-S OFDM

PI/2 BPSK

QPSK

Lowest Channel / 1RB0

Lowest Channel / 1RB0

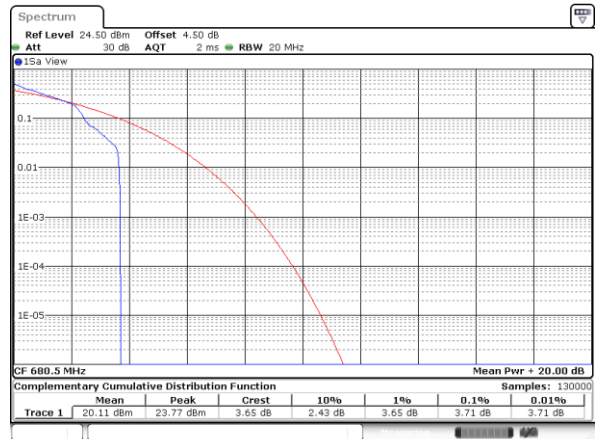
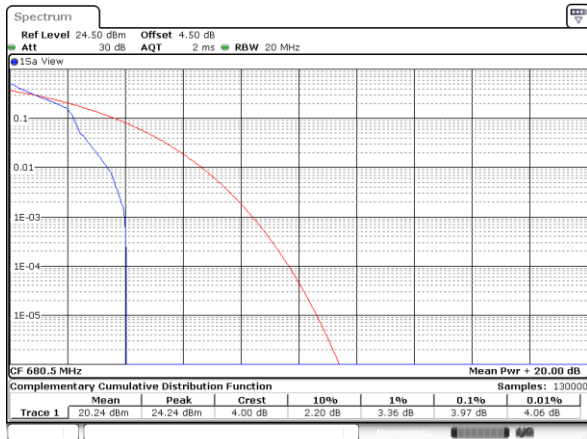


Date: 5 SEP 2020 03:23:22

Date: 5 SEP 2020 03:23:31

Middle Channel / 1RB0

Middle Channel / 1RB0

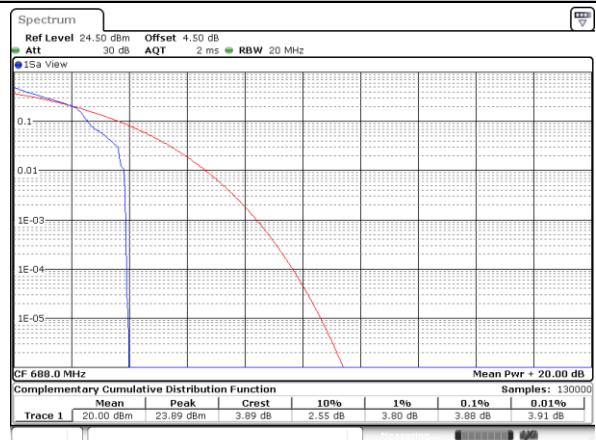
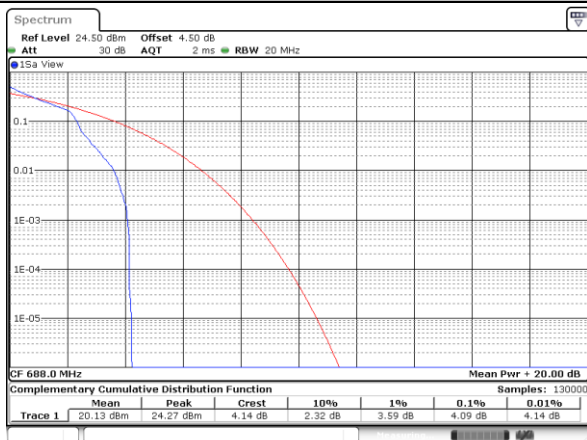


Date: 5 SEP 2020 03:14:10

Date: 5 SEP 2020 03:14:17

Highest Channel / 1RB0

Highest Channel / 1RB0



Date: 5 SEP 2020 03:21:23

Date: 5 SEP 2020 03:21:30



26dB Bandwidth

Mode	5G NR n71 : 26dB BW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK
Lowest CH	4.88	4.95	9.71	9.69	14.27	14.24	20.06	20.14
Middle CH	4.88	5.00	9.65	9.73	14.18	14.27	20.10	20.14
Highest CH	4.93	4.88	9.71	9.75	14.30	14.18	20.22	20.18



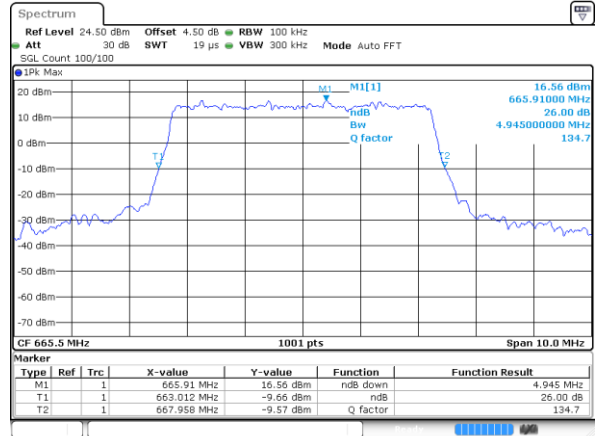
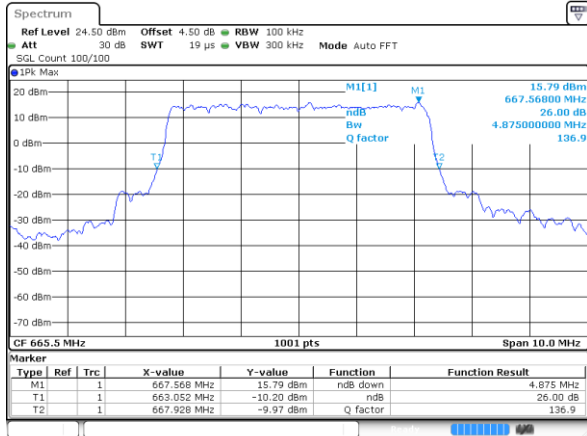
5G NR n71 / 5MHz / DFT-S OFDM

PI/2 BPSK

QPSK

Lowest Channel

Lowest Channel

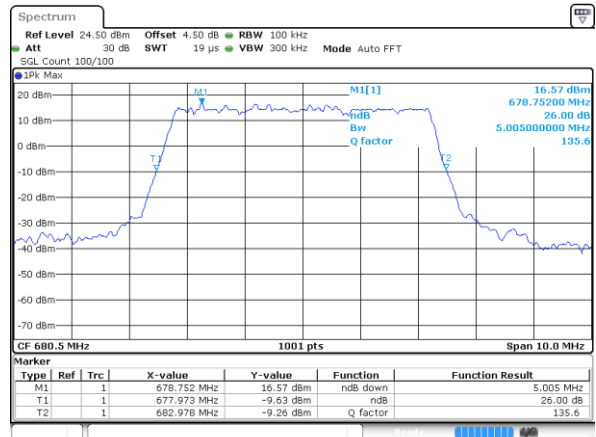
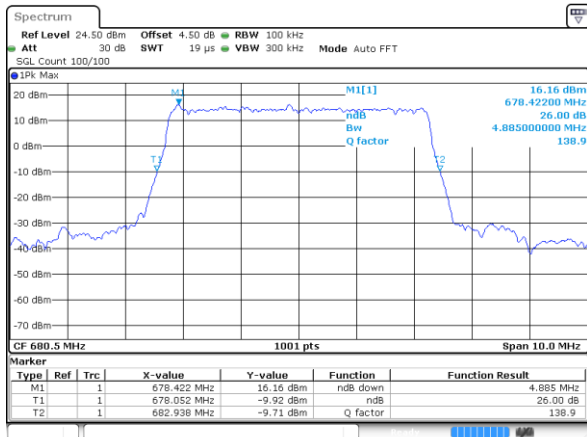


Date: 5 SEP 2020 00:41:27

Date: 5 SEP 2020 00:41:38

Middle Channel

Middle Channel

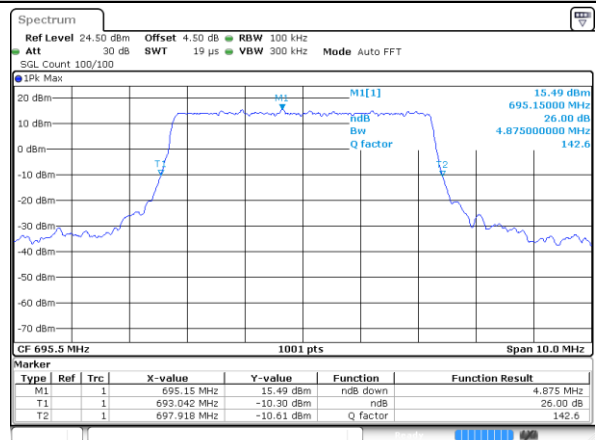
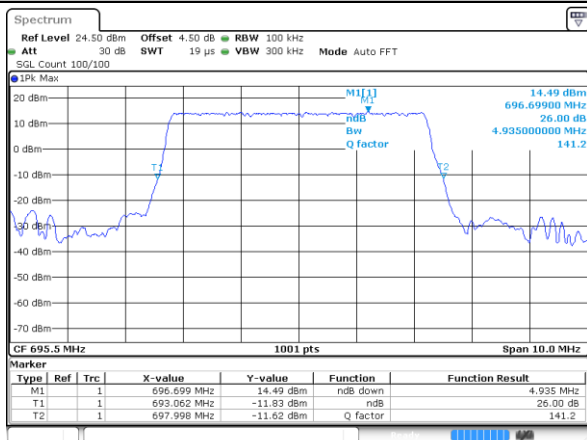


Date: 5 SEP 2020 01:51:03

Date: 5 SEP 2020 01:51:16

Highest Channel

Highest Channel



Date: 5 SEP 2020 01:52:42

Date: 5 SEP 2020 01:52:53



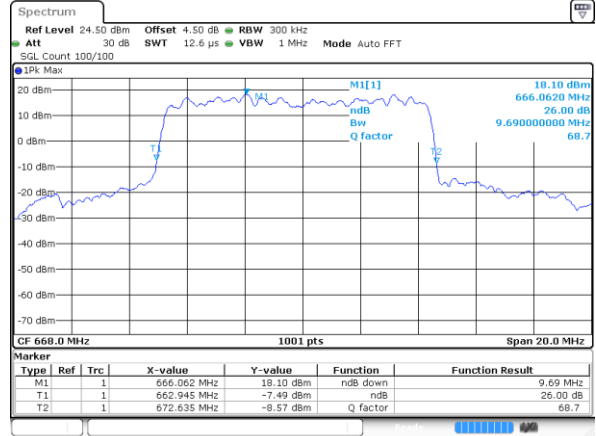
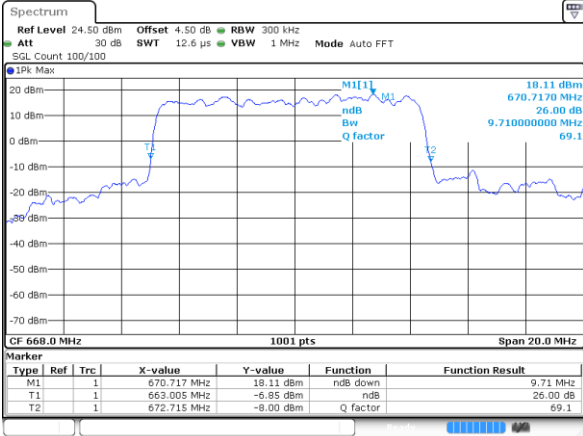
5G NR n71 / 10MHz / DFT-S OFDM

PI/2 BPSK

QPSK

Lowest Channel

Lowest Channel

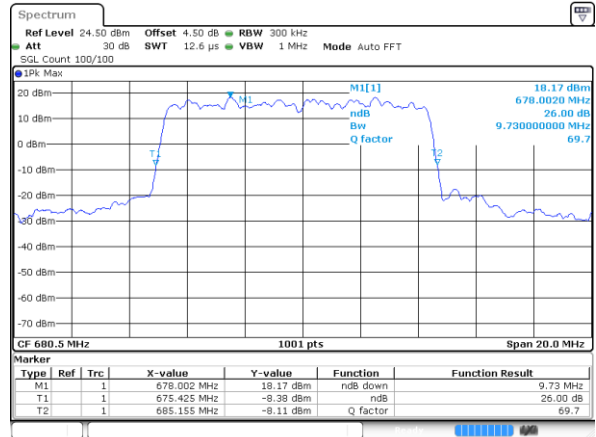
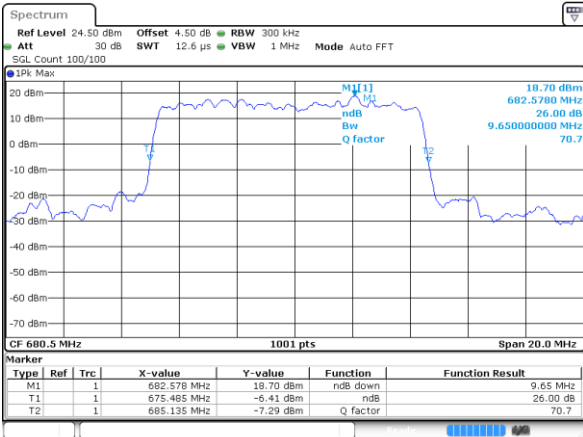


Date: 5 SEP 2020 02:00:12

Date: 5 SEP 2020 02:00:24

Middle Channel

Middle Channel

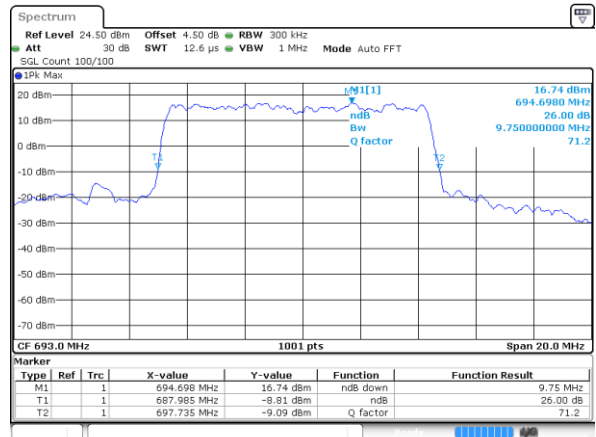
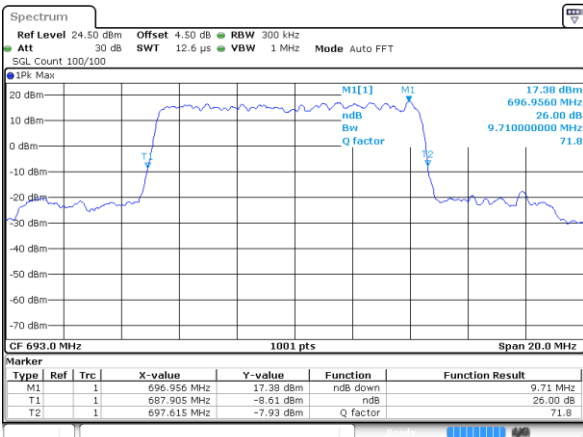


Date: 5 SEP 2020 02:48:05

Date: 5 SEP 2020 02:48:17

Highest Channel

Highest Channel



Date: 5 SEP 2020 02:50:32

Date: 5 SEP 2020 02:51:16



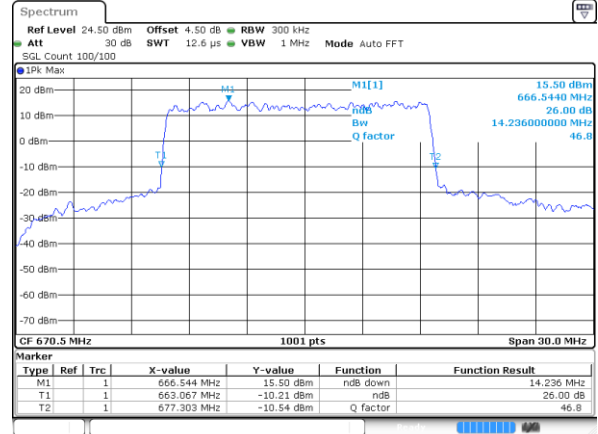
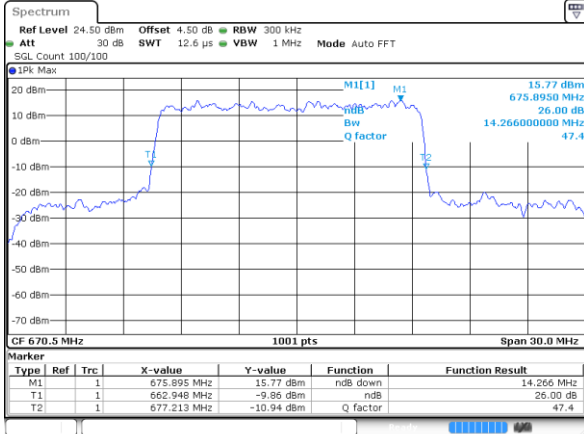
5G NR n71 / 15MHz / DFT-S OFDM

PI/2 BPSK

QPSK

Lowest Channel

Lowest Channel

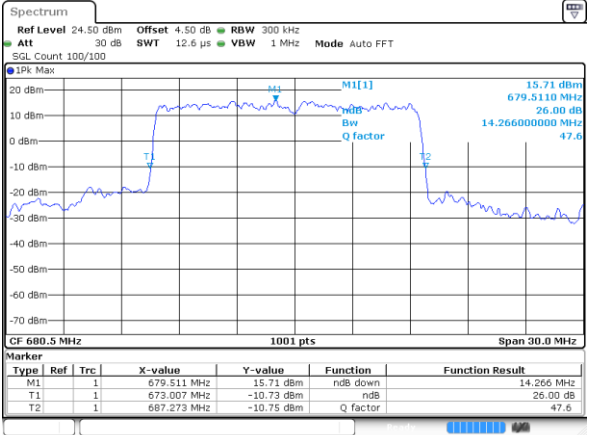
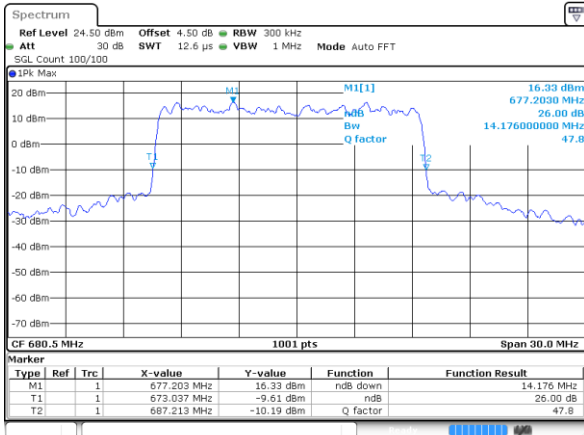


Date: 5 SEP 2020 02:53:24

Date: 5 SEP 2020 02:53:38

Middle Channel

Middle Channel

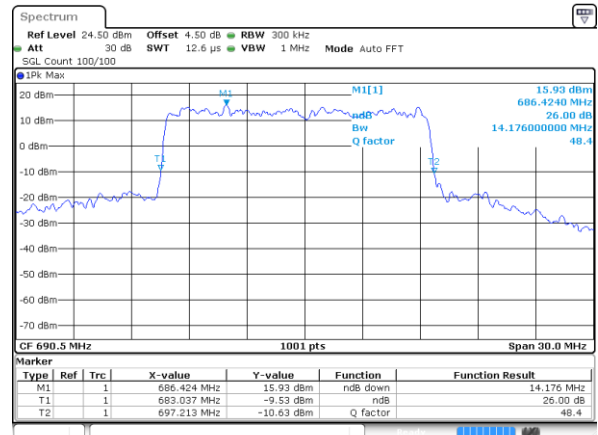
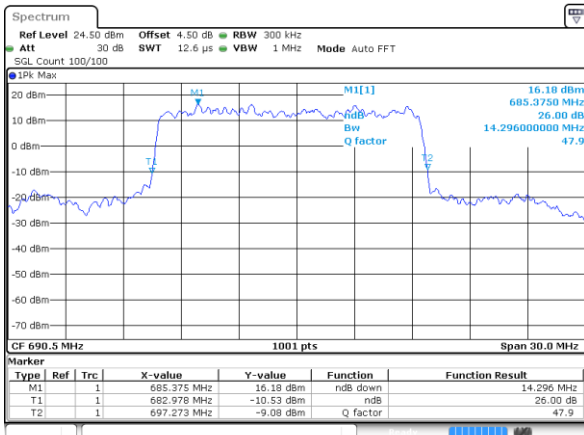


Date: 5 SEP 2020 02:55:42

Date: 5 SEP 2020 02:55:55

Highest Channel

Highest Channel



Date: 5 SEP 2020 03:00:06

Date: 5 SEP 2020 03:00:19



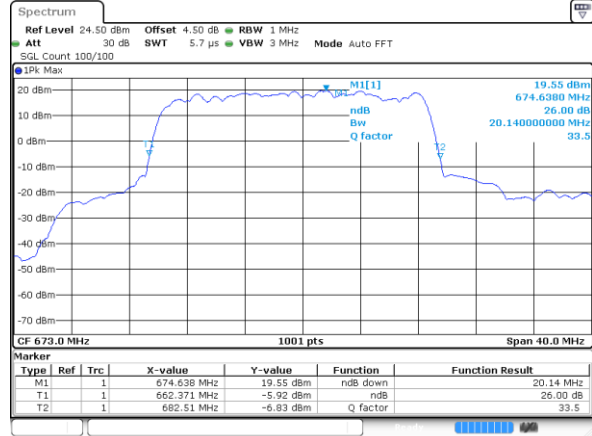
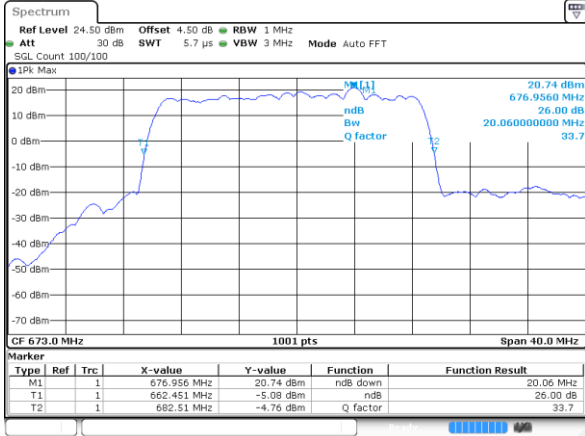
5G NR n71 / 20MHz / DFT-S OFDM

PI/2 BPSK

QPSK

Lowest Channel

Lowest Channel

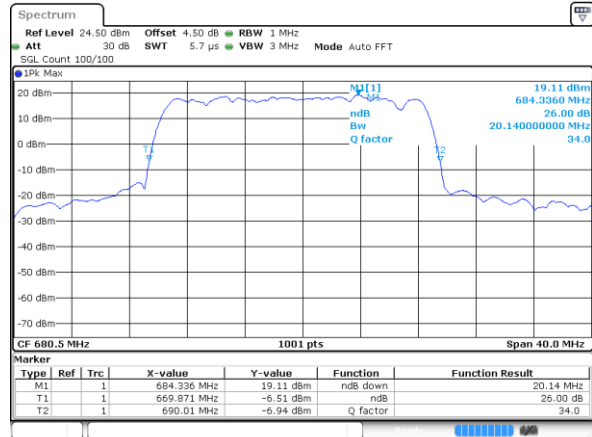
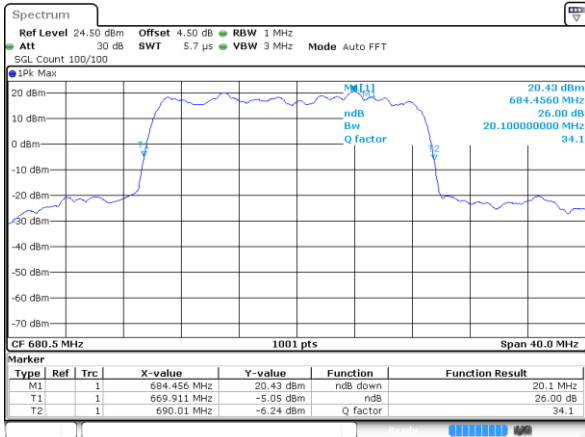


Date: 5 SEP 2020 03:09:48

Date: 5 SEP 2020 03:10:06

Middle Channel

Middle Channel

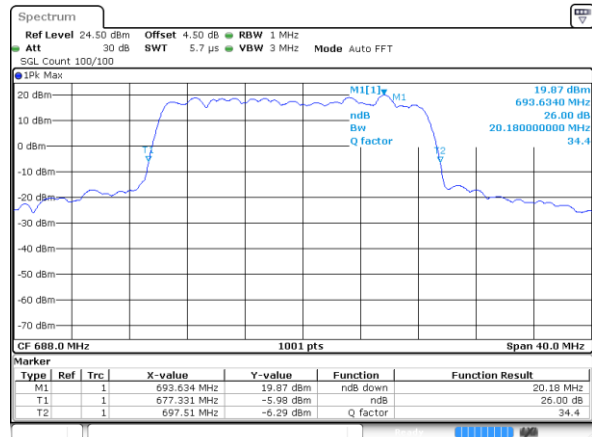
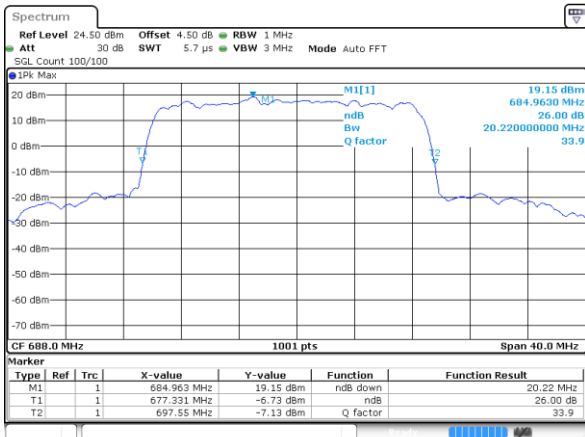


Date: 5 SEP 2020 03:11:36

Date: 5 SEP 2020 03:11:50

Highest Channel

Highest Channel



Date: 5 SEP 2020 03:19:43

Date: 5 SEP 2020 03:19:55



Occupied Bandwidth

Mode	5G NR n71 : 99%OBW(MHz) / DFT-S OFDM			
BW	5MHz	10MHz	15MHz	20MHz
Mod.	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK
Lowest CH	4.47	9.07	13.43	18.26
Middle CH	4.46	9.01	13.49	18.22
Highest CH	4.47	9.05	13.49	18.34

Mode	5G NR n71 : 99%OBW (MHz) / DFT-S OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	4.48	4.48	9.03	9.05	13.46	13.52	18.14	18.22
Middle CH	4.49	4.47	9.09	9.05	13.55	13.46	18.26	18.38
Highest CH	4.50	4.50	9.05	9.07	13.49	13.46	18.26	18.46

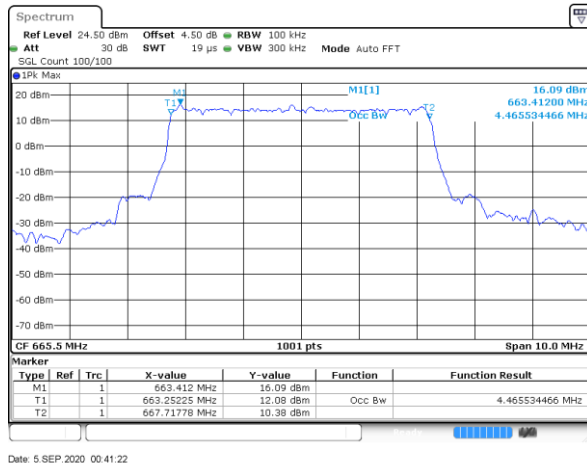
Mode	5G NR n71 : 99%OBW (MHz) / DFT-S OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Lowest CH	4.48	4.50	8.99	9.03	13.46	13.40	18.10	18.22
Middle CH	4.47	4.47	9.03	9.05	13.46	13.46	18.10	18.18
Highest CH	4.49	4.50	9.03	9.05	13.43	13.52	18.22	18.22



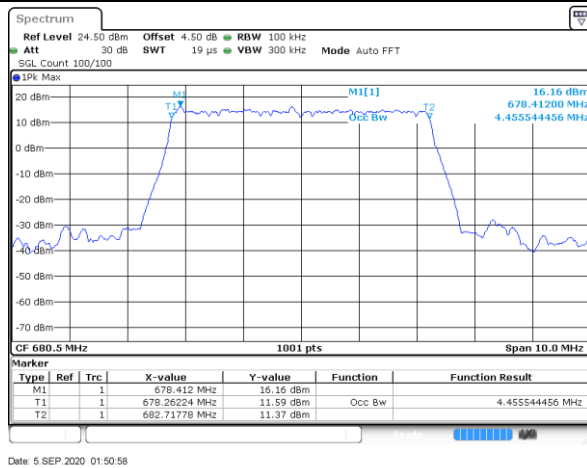
5G NR n71 / 5MHz / DFT-S OFDM

PI/2 BPSK

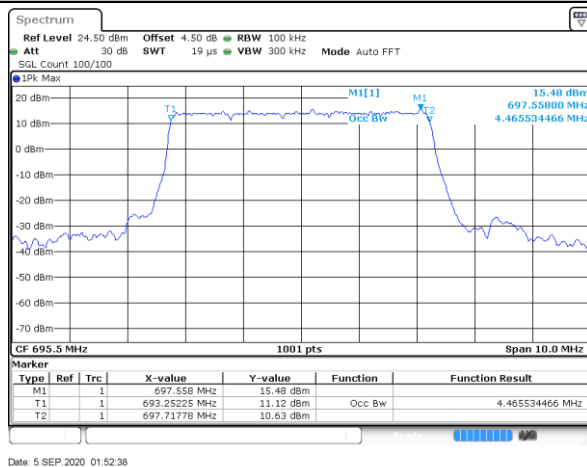
Lowest Channel



Middle Channel



Highest Channel





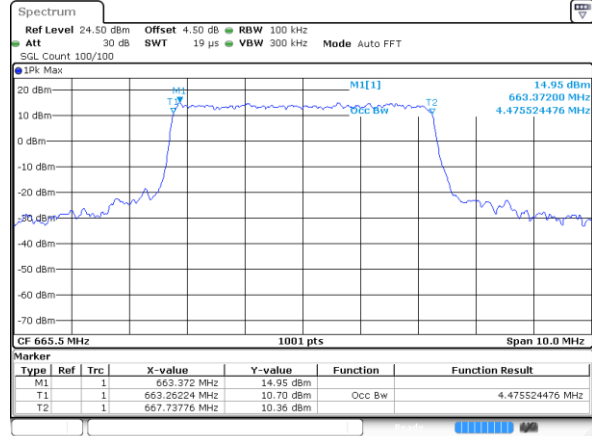
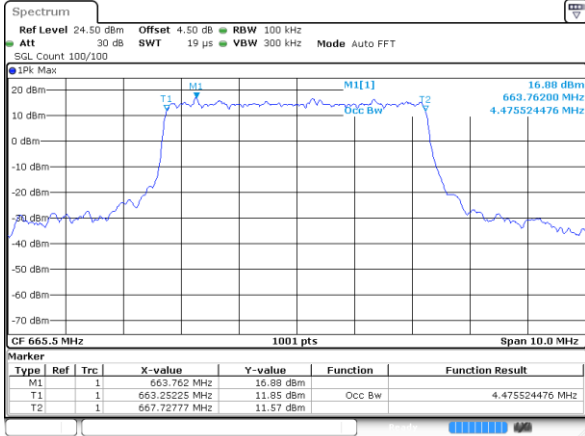
5G NR n71 / 5MHz / DFT-S OFDM

QPSK

16QAM

Lowest Channel

Lowest Channel

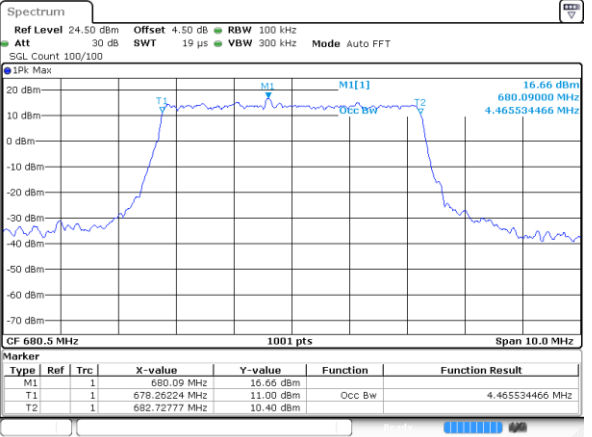
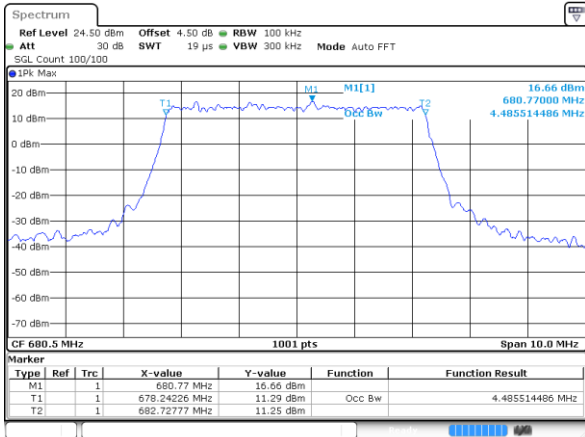


Date: 5 SEP 2020 00:41:34

Date: 5 SEP 2020 00:41:46

Middle Channel

Middle Channel

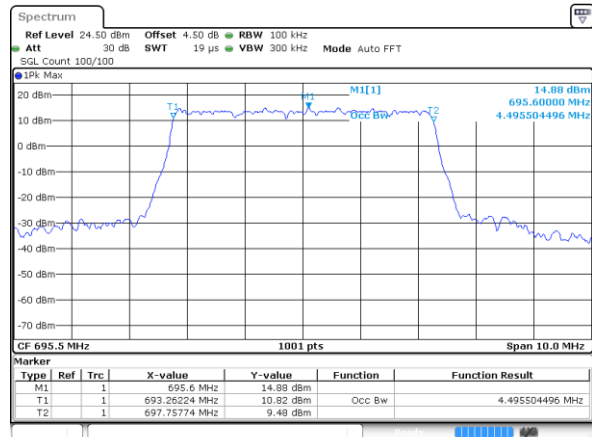
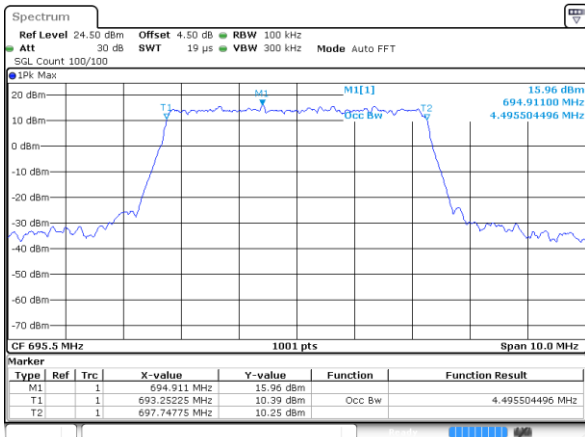


Date: 5 SEP 2020 01:51:11

Date: 5 SEP 2020 01:51:23

Highest Channel

Highest Channel



Date: 5 SEP 2020 01:52:48

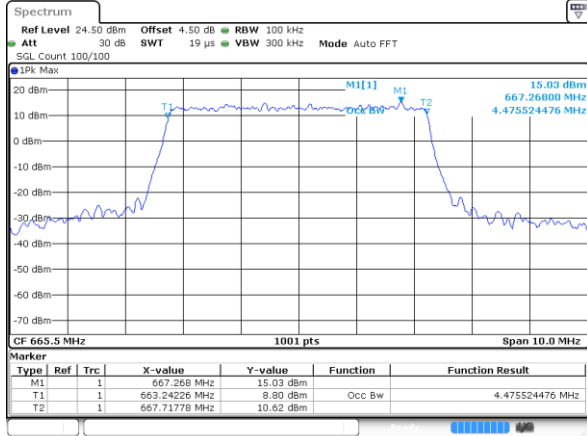
Date: 5 SEP 2020 01:52:59



5G NR n71 / 5MHz / DFT-S OFDM

64QAM

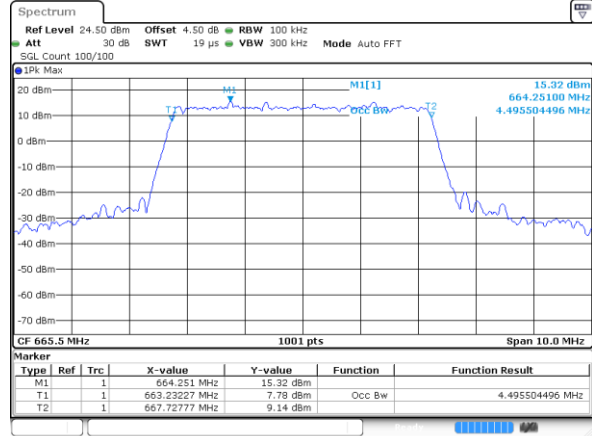
Lowest Channel



Date: 5 SEP.2020 00:41:59

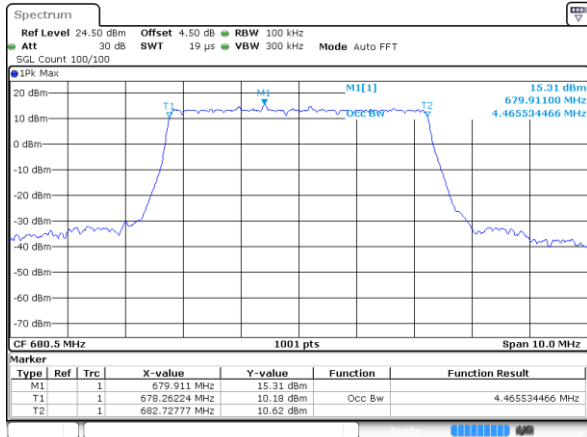
256QAM

Lowest Channel



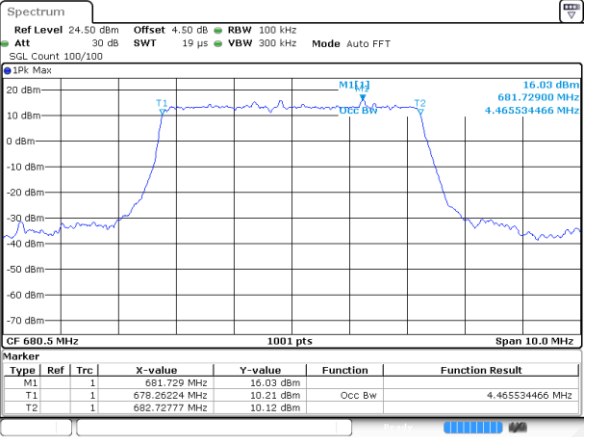
Date: 5 SEP.2020 00:43:46

Middle Channel



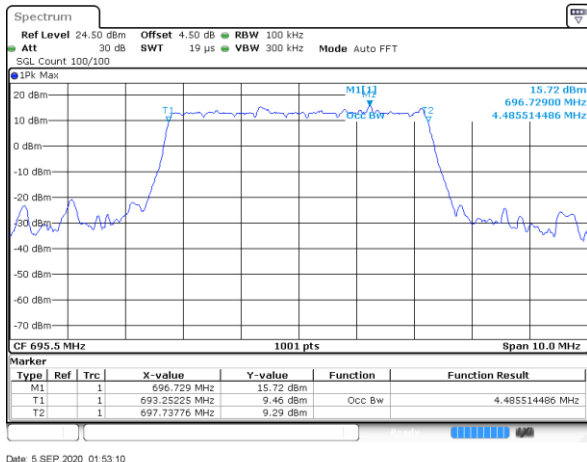
Date: 5 SEP.2020 01:51:35

Middle Channel



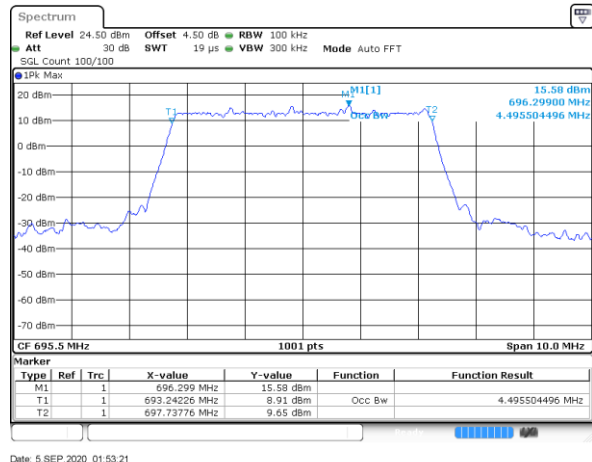
Date: 5 SEP.2020 01:51:45

Highest Channel



Date: 5 SEP.2020 01:53:10

Highest Channel



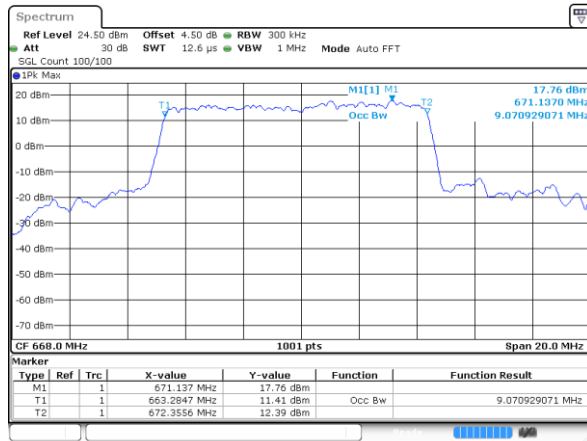
Date: 5 SEP.2020 01:53:21



5G NR n71 / 10MHz / DFT-S OFDM

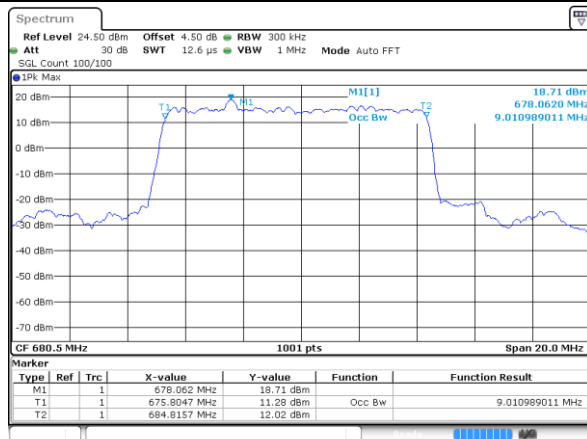
PI/2 BPSK

Lowest Channel



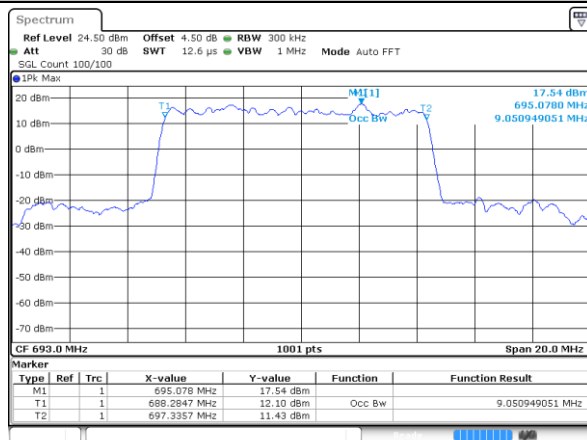
Date: 5 SEP 2020 02:00:02

Middle Channel



Date: 5 SEP 2020 02:48:00

Highest Channel



Date: 5 SEP 2020 02:50:27



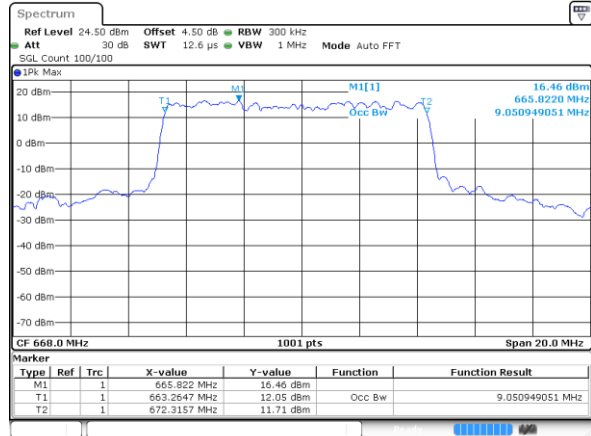
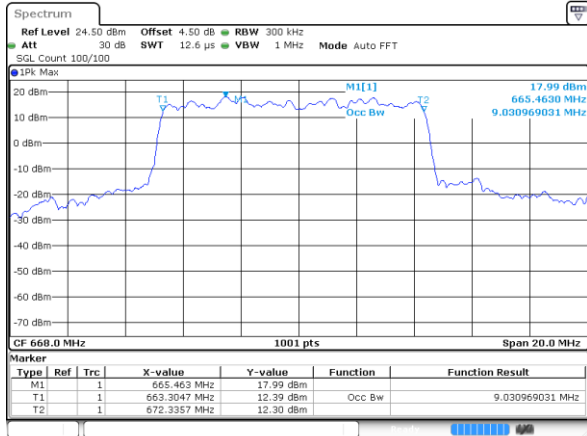
5G NR n71 / 10MHz / DFT-S OFDM

QPSK

16QAM

Lowest Channel

Lowest Channel

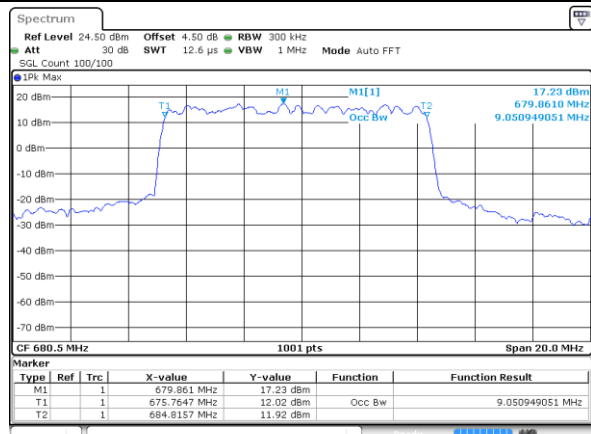
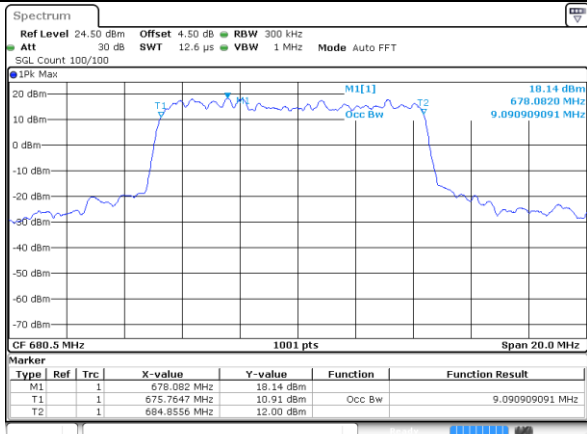


Date: 5 SEP.2020 02:00:20

Date: 5 SEP.2020 02:00:34

Middle Channel

Middle Channel

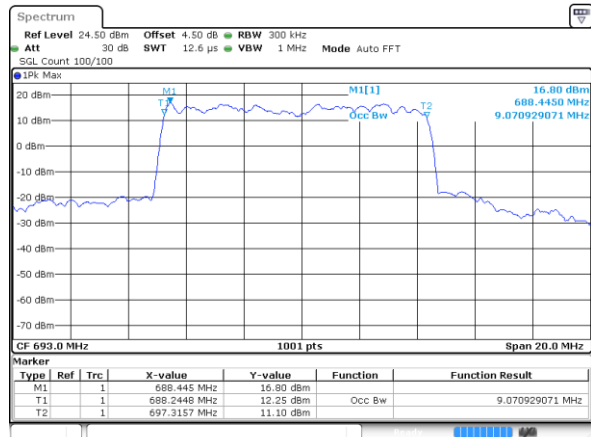
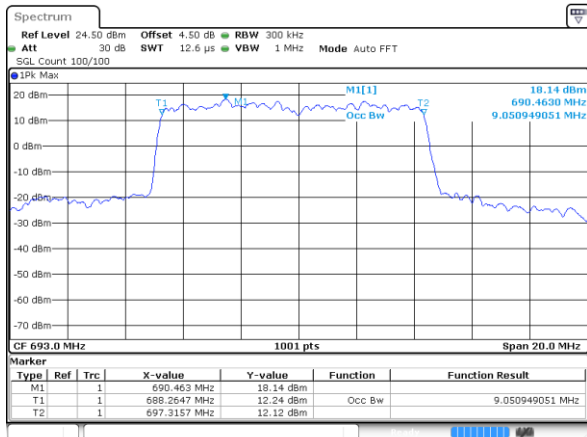


Date: 5 SEP.2020 02:48:13

Date: 5 SEP.2020 02:48:28

Highest Channel

Highest Channel



Date: 5 SEP.2020 02:51:11

Date: 5 SEP.2020 02:51:25



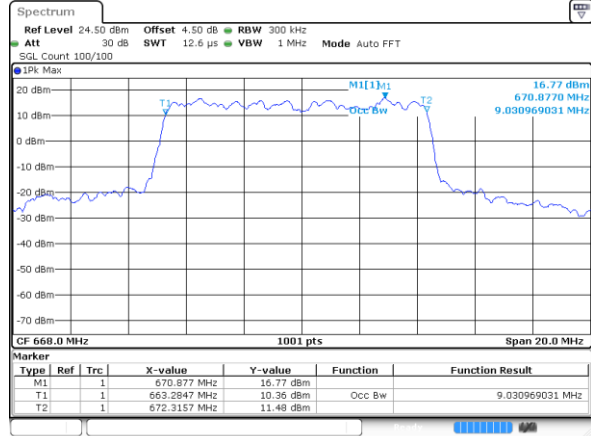
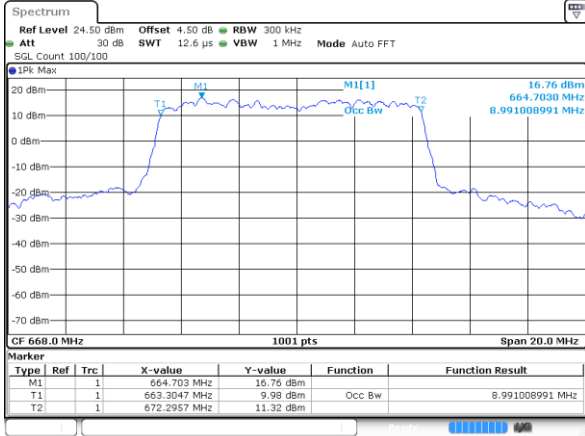
5G NR n71 / 10MHz / DFT-S OFDM

64QAM

256QAM

Lowest Channel

Lowest Channel

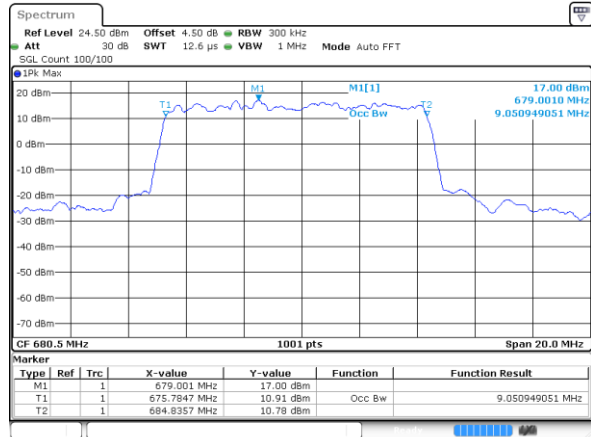
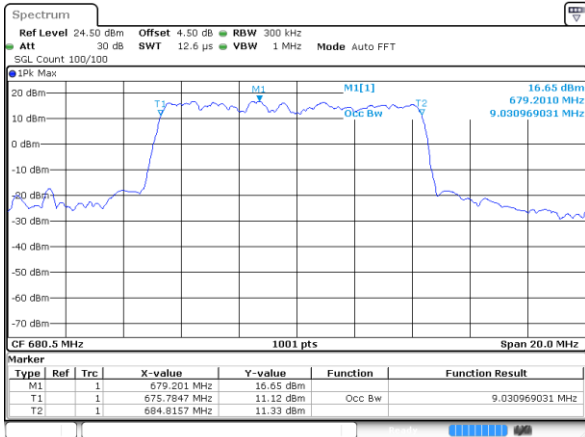


Date: 5 SEP 2020 02:00:46

Date: 5 SEP 2020 02:00:56

Middle Channel

Middle Channel

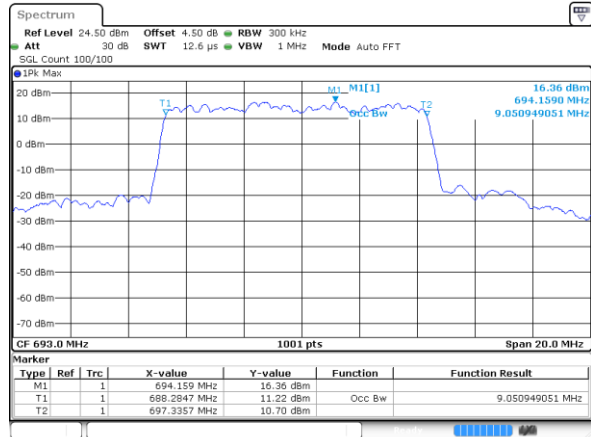
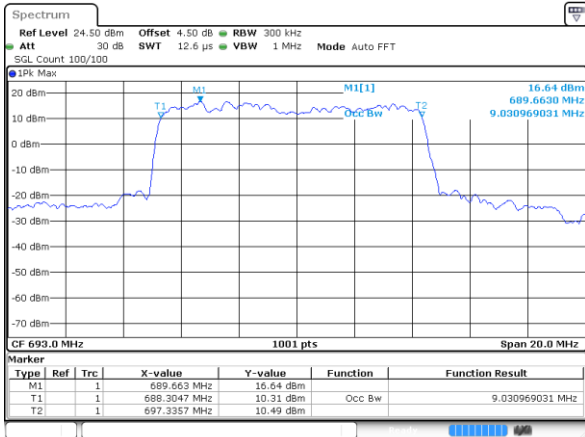


Date: 5 SEP 2020 02:48:41

Date: 5 SEP 2020 02:48:52

Highest Channel

Highest Channel



Date: 5 SEP 2020 02:51:37

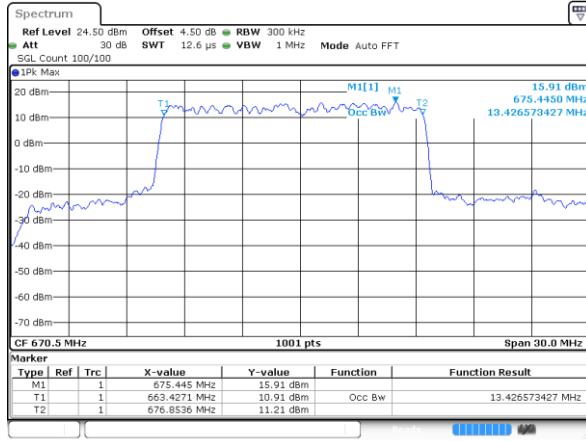
Date: 5 SEP 2020 02:51:48



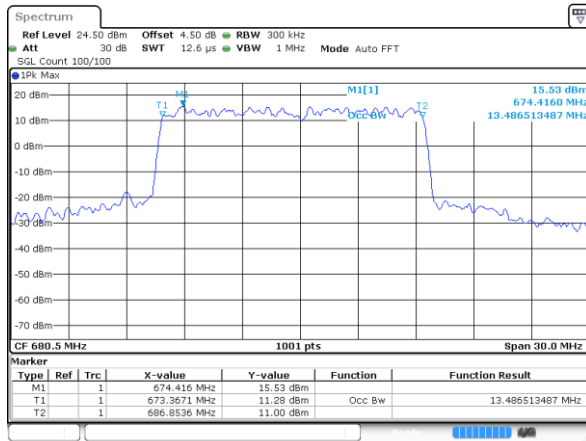
5G NR n71 / 15MHz / DFT-S OFDM

PI/2 BPSK

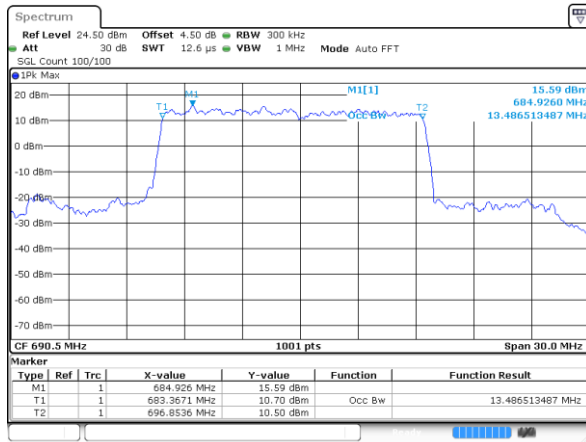
Lowest Channel



Middle Channel



Highest Channel





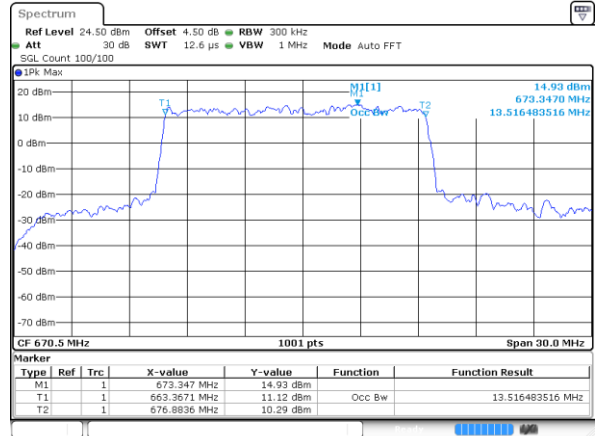
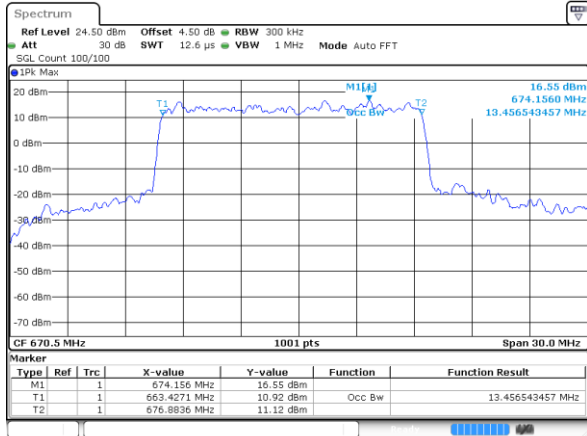
5G NR n71 / 15MHz / DFT-S OFDM

QPSK

16QAM

Lowest Channel

Lowest Channel

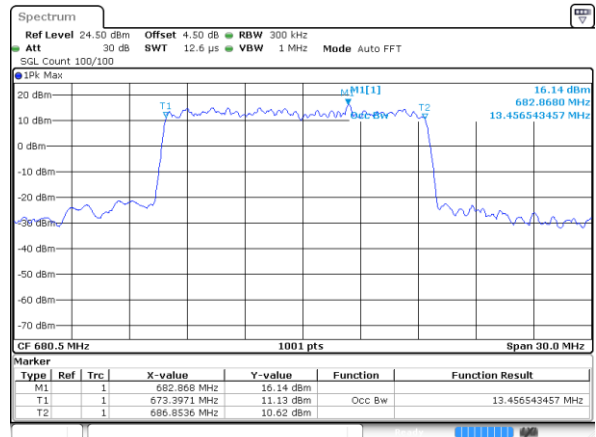
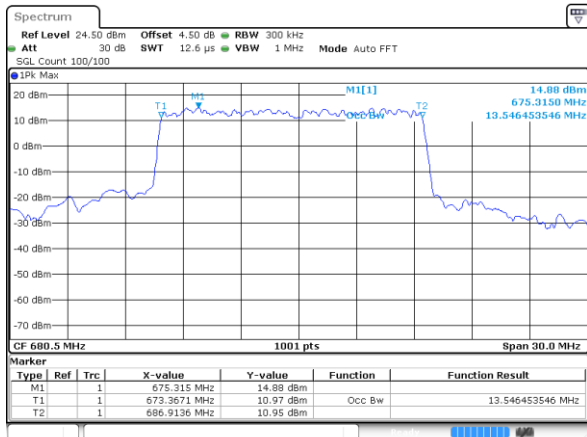


Date: 5 SEP 2020 02:53:33

Date: 5 SEP 2020 02:53:46

Middle Channel

Middle Channel

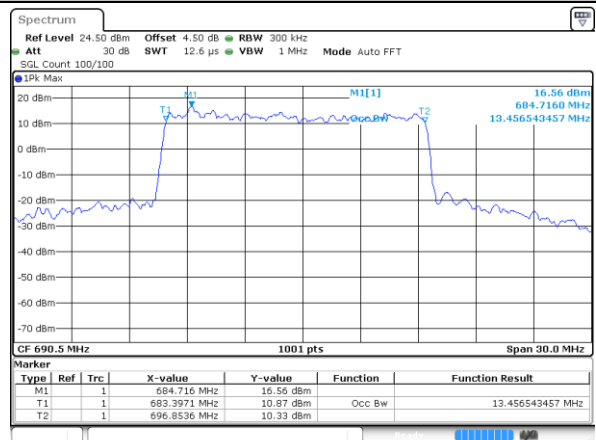
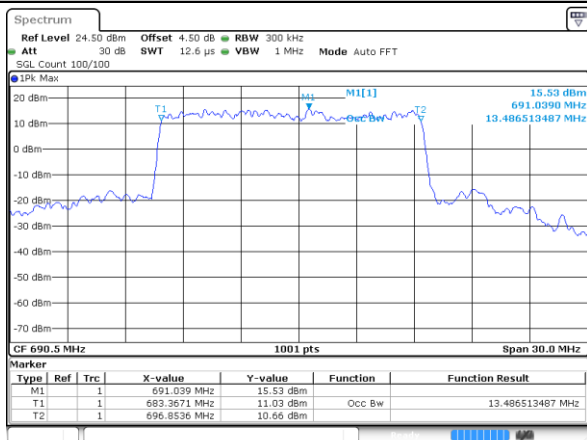


Date: 5 SEP 2020 02:55:49

Date: 5 SEP 2020 02:56:02

Highest Channel

Highest Channel



Date: 5 SEP 2020 03:00:15

Date: 5 SEP 2020 03:00:27