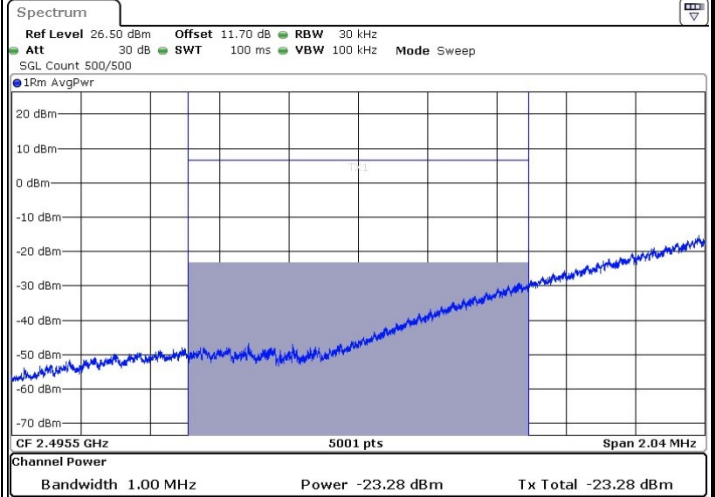
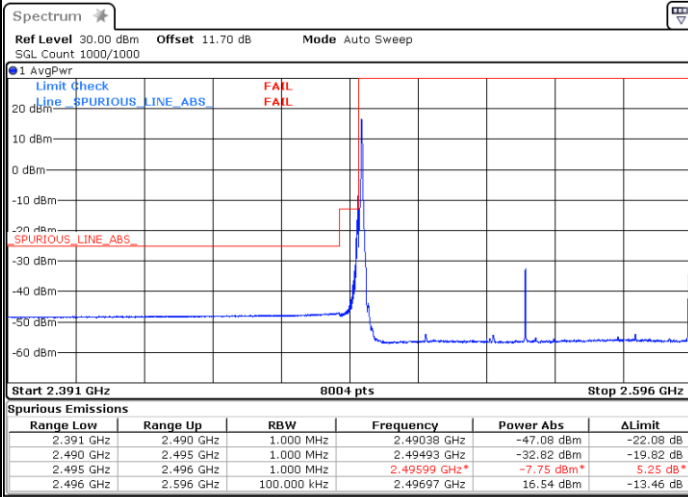




FR1 n41 / 100MHz / DFT-S OFDM QPSK

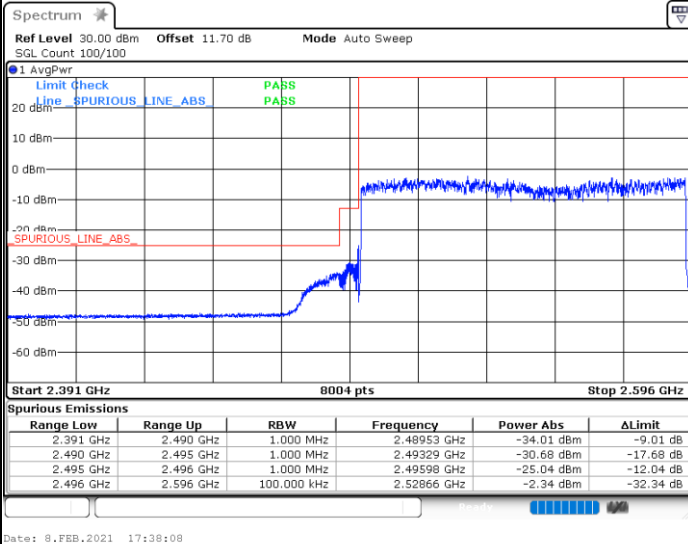
Lowest Band Edge / 1 RB

Channel Power < -13dBm Pass



Lowest Band Edge / Full RB

Channel Power < -13dBm Pass

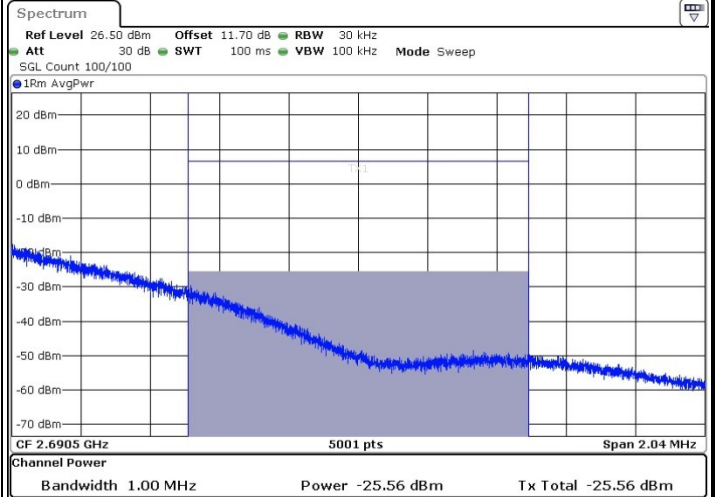
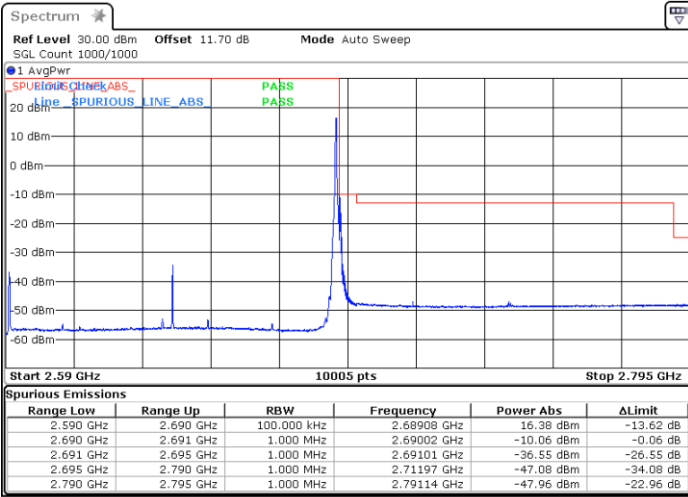




FR1 n41 / 100MHz / DFT-S OFDM QPSK

Highest Band Edge / 1 RB

Channel Power < -10dBm Pass

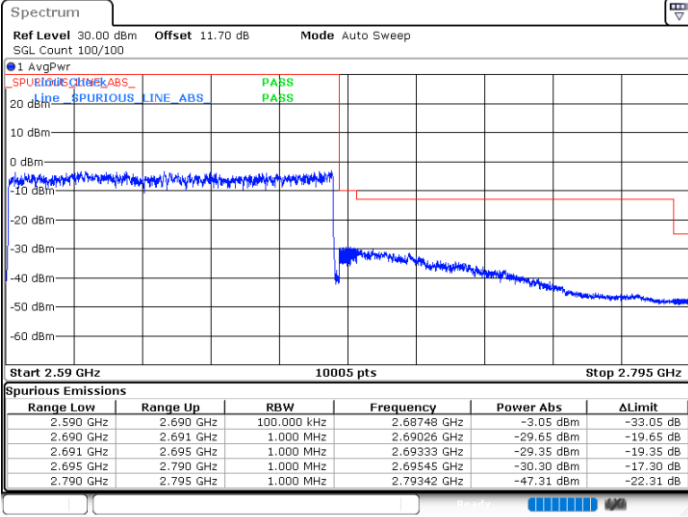


Date: 9.FEB.2021 08:52:28

Date: 9.FEB.2021 08:59:32

Highest Band Edge / Full RB

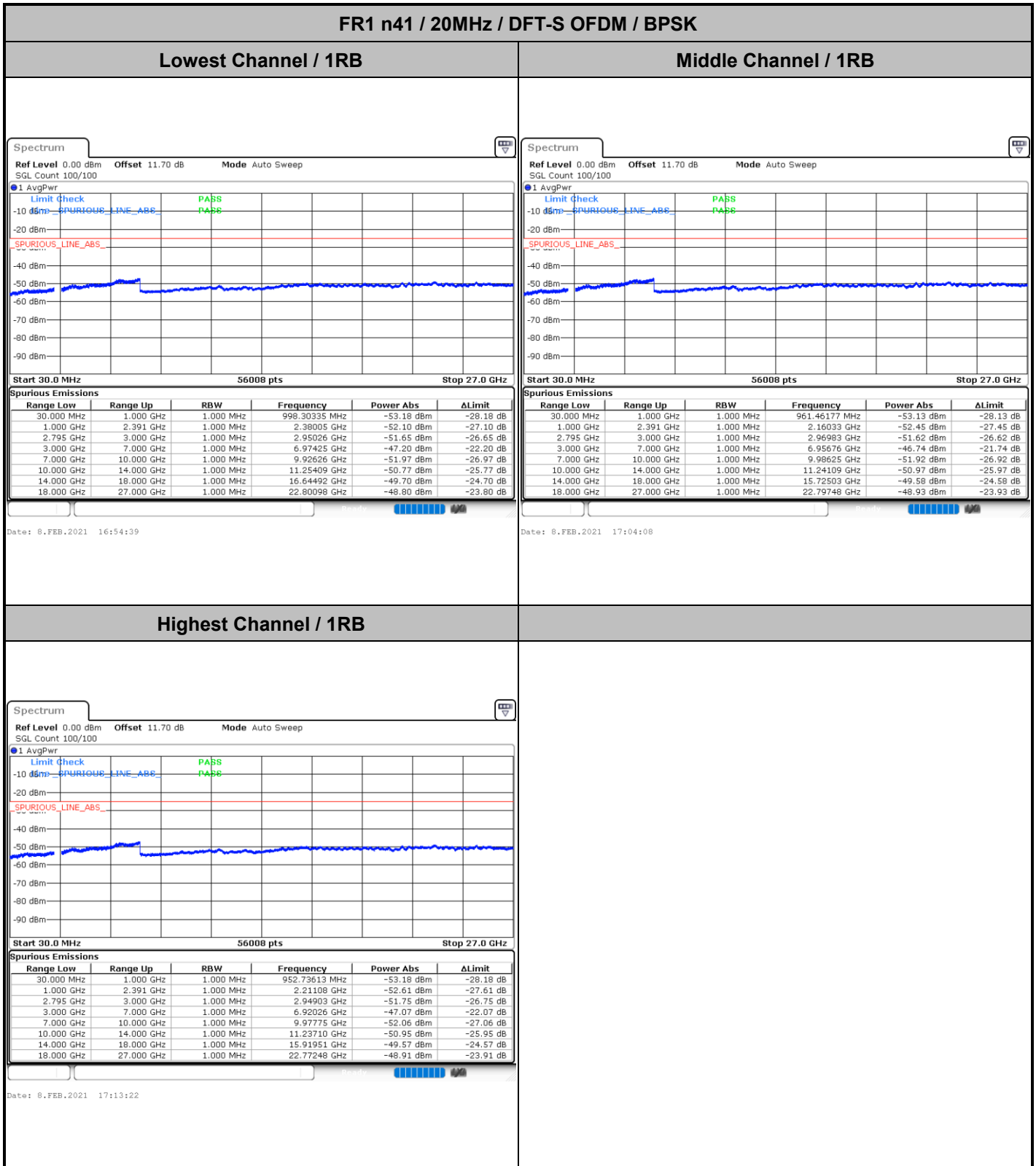
Channel Power < -10dBm Pass



Date: 9.FEB.2021 08:48:36



# Conducted Spurious Emission

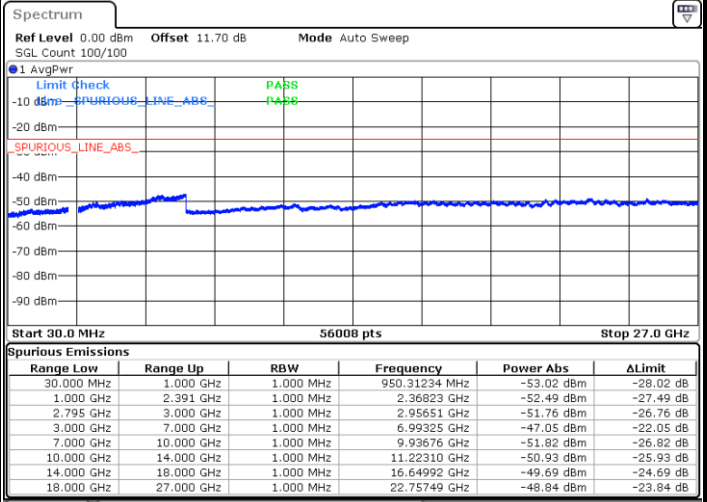
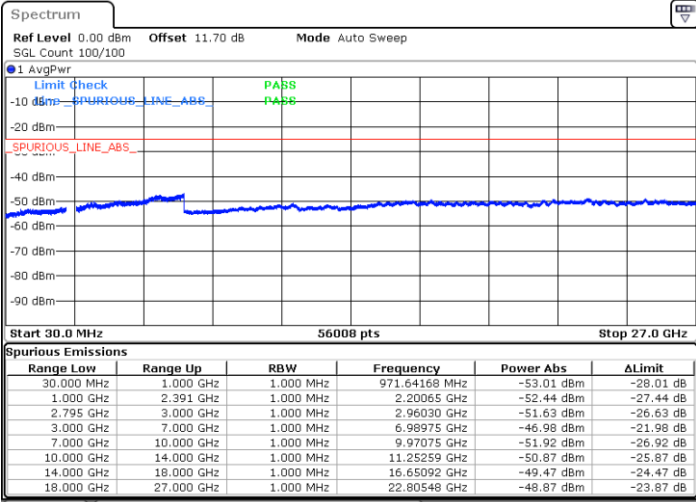




FR1 n41 / 20MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB

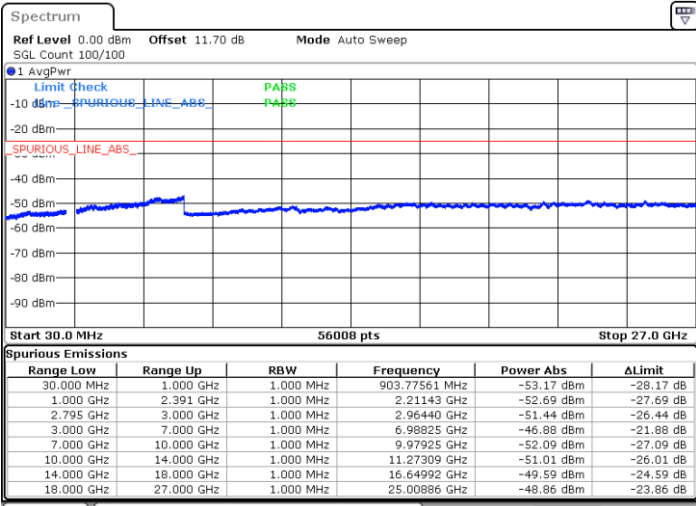
Middle Channel / 1RB



Date: 8.FEB.2021 16:56:19

Date: 8.FEB.2021 17:02:54

Highest Channel / 1RB



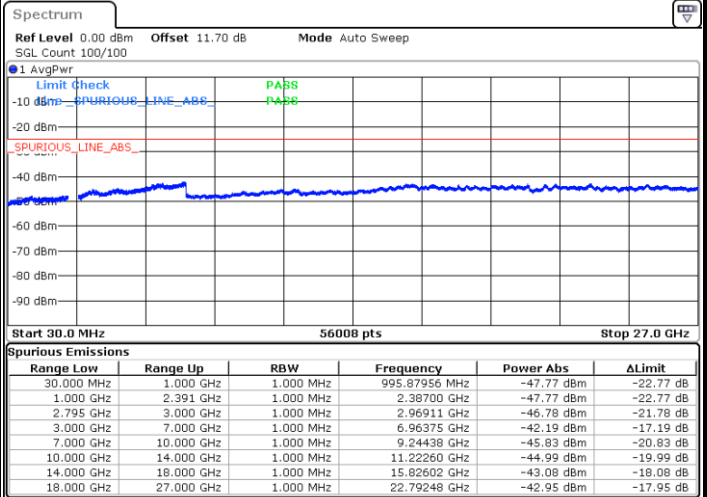
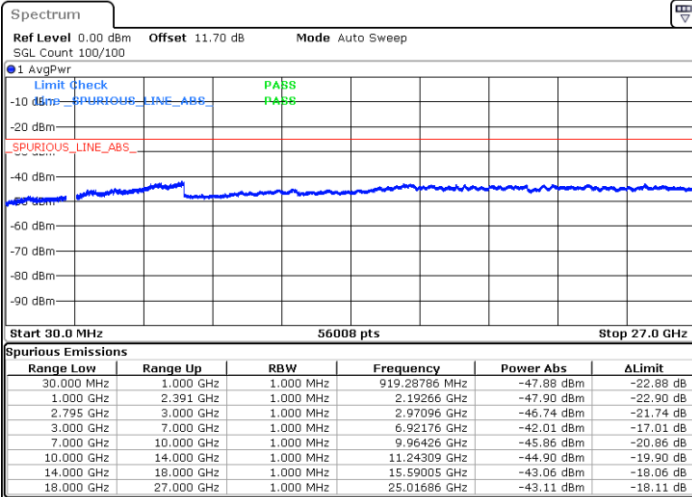
Date: 8.FEB.2021 17:27:13



FR1 n41 / 50MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB

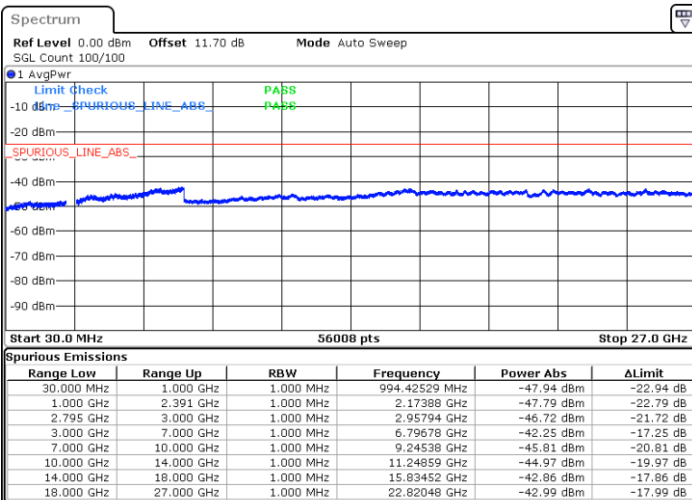
Middle Channel / 1RB



Date: 8.FEB.2021 16:21:59

Date: 8.FEB.2021 16:44:45

Highest Channel / 1RB



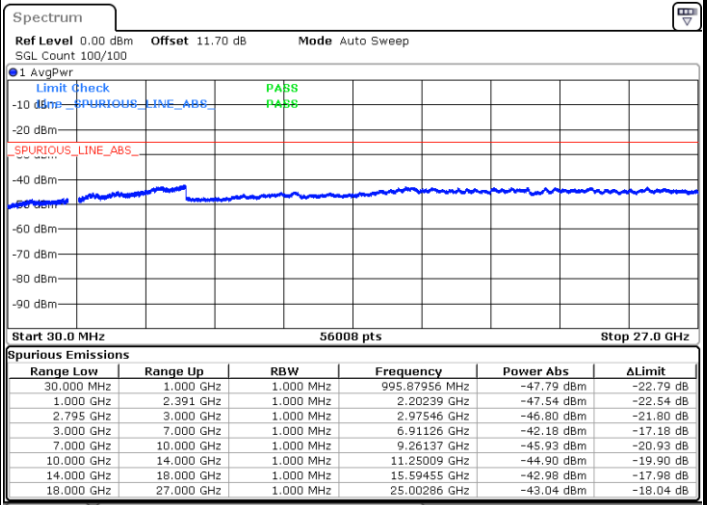
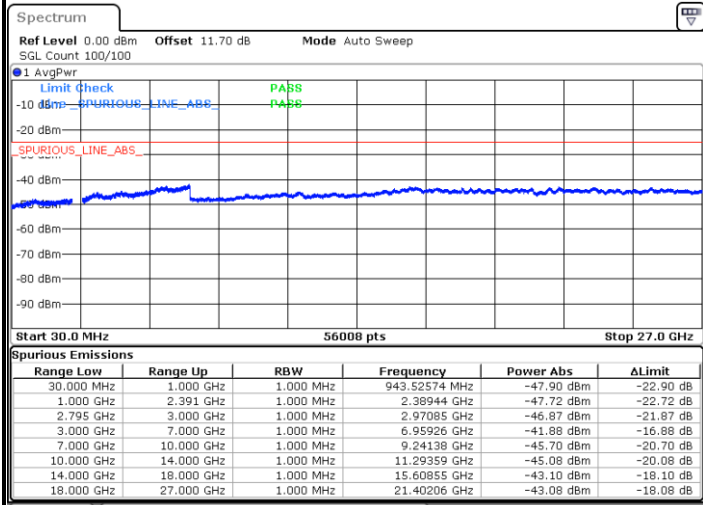
Date: 8.FEB.2021 16:49:55

FR1 n41 / 50MHz / DFT-S OFDM / QPSK



Lowest Channel / 1RB

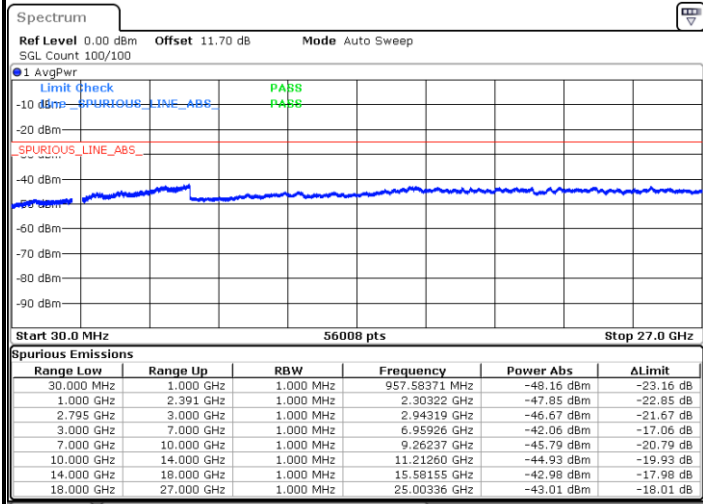
Middle Channel / 1RB



Date: 8.FEB.2021 16:24:36

Date: 8.FEB.2021 16:40:12

Highest Channel / 1RB



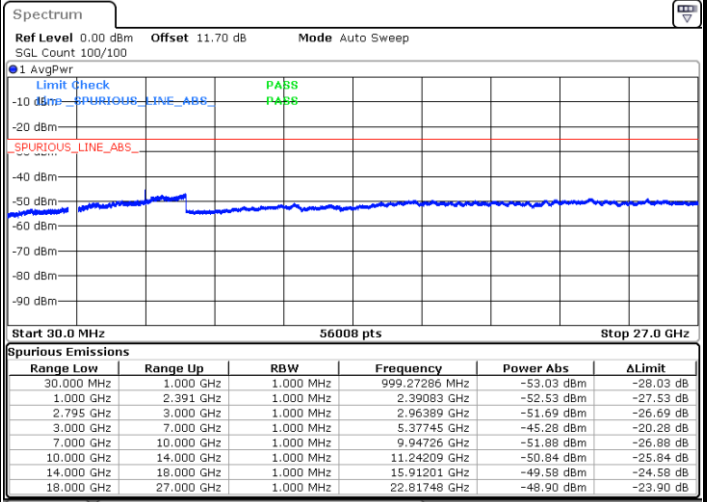
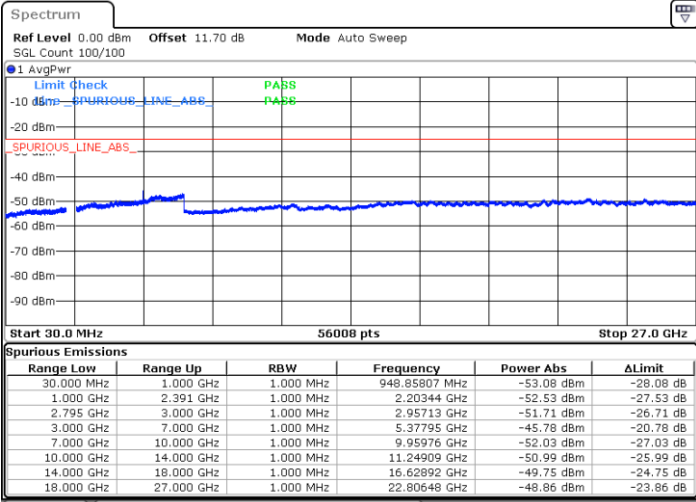
Date: 8.FEB.2021 16:51:52



FR1 n41 / 100MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB

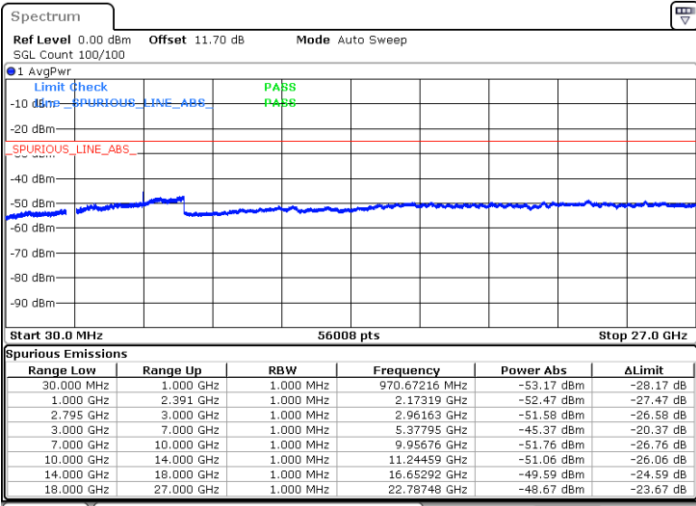
Middle Channel / 1RB



Date: 8.FEB.2021 15:54:10

Date: 8.FEB.2021 16:10:01

Highest Channel / 1RB



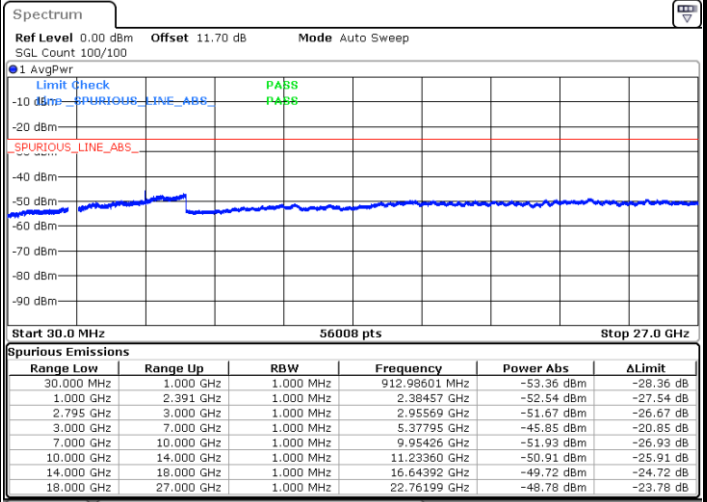
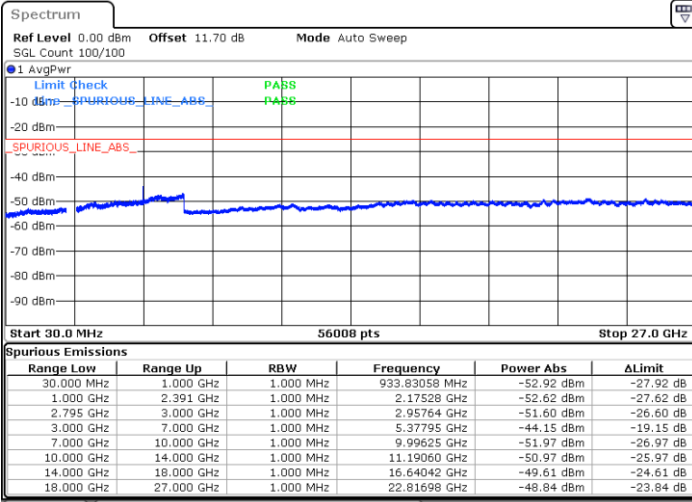
Date: 8.FEB.2021 16:12:11



FR1 n41 / 20MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB

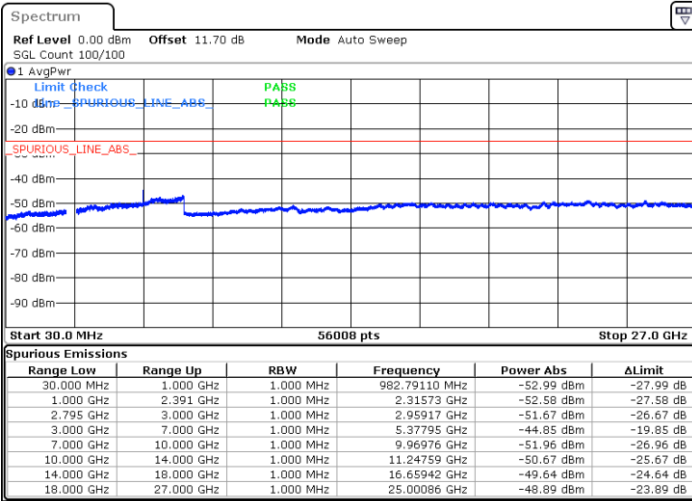
Middle Channel / 1RB



Date: 8.FEB.2021 15:56:19

Date: 8.FEB.2021 16:00:38

Highest Channel / 1RB



Date: 8.FEB.2021 16:16:05





Frequency Stability

Test Conditions		NR n41 (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Within Band
		Deviation (ppm)	Result
50	Normal Voltage	0.0014	PASS
40	Normal Voltage	0.0027	
30	Normal Voltage	0.0012	
20(Ref.)	Normal Voltage	0.0013	
10	Normal Voltage	0.0043	
0	Normal Voltage	0.0012	
-10	Normal Voltage	0.0019	
-20	Normal Voltage	0.0025	
-30	Normal Voltage	0.0017	
20	Maximum Voltage	0.0019	
20	Normal Voltage	0.0022	
20	Battery End Point	0.0015	

Note:

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.45 V. ; Maximum Voltage =4.45 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



## 5G NR n71 SA

### Peak-to-Average Ratio

Mode	FR1 n71 / 20MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	PI/2 BPSK	QPSK	QPSK	Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.77	3.88	5.71	5.25	<b>PASS</b>
Middle CH	3.65	3.28	5.51	4.81	
Highest CH	4.38	3.83	5.83	5.16	



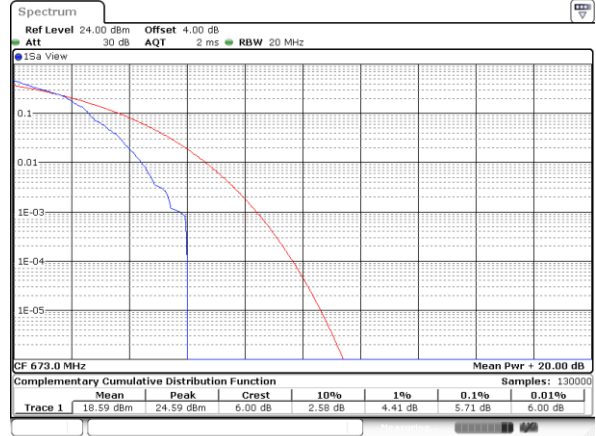
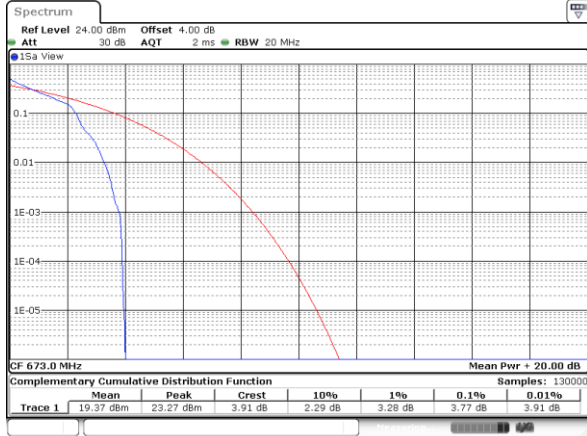
FR1 n71 / 20MHz / DFT-S OFDM

PI/2 BPSK

QPSK

Lowest Channel / 1RB

Lowest Channel / 1RB

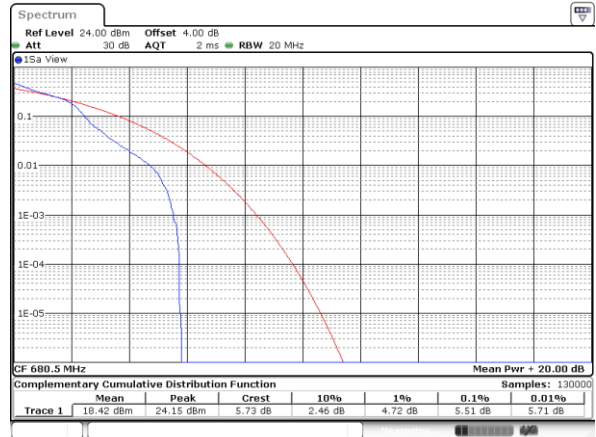
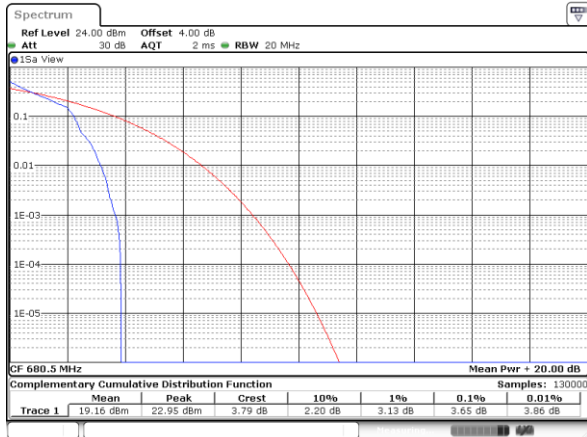


Date: 10.FEB.2021 18:47:28

Date: 10.FEB.2021 18:47:17

Middle Channel / 1 RB

Middle Channel / 1 RB

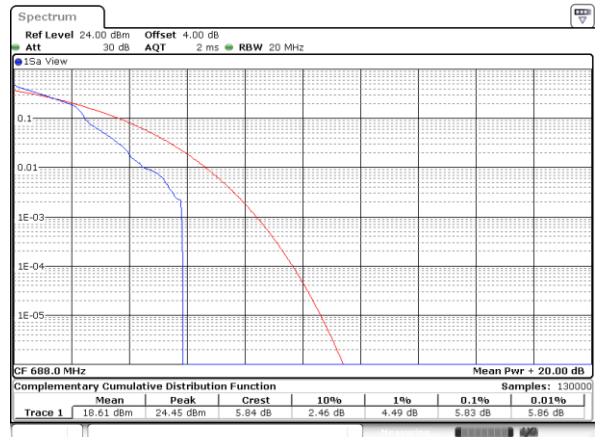
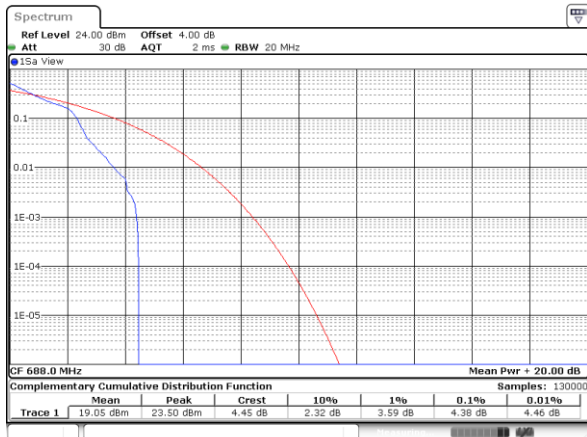


Date: 10.FEB.2021 18:48:22

Date: 10.FEB.2021 18:49:52

Highest Channel / 1 RB

Highest Channel / 1 RB



Date: 10.FEB.2021 19:17:17

Date: 10.FEB.2021 19:15:16



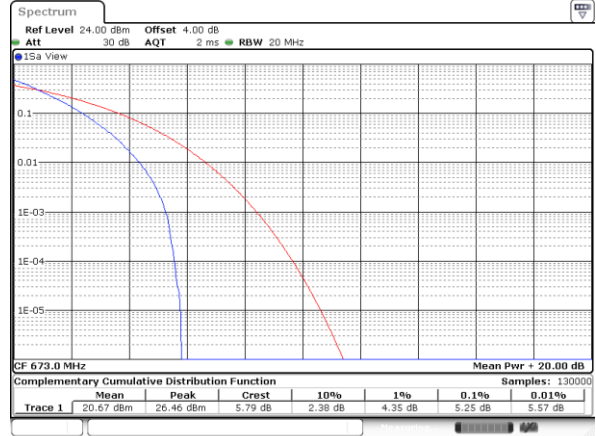
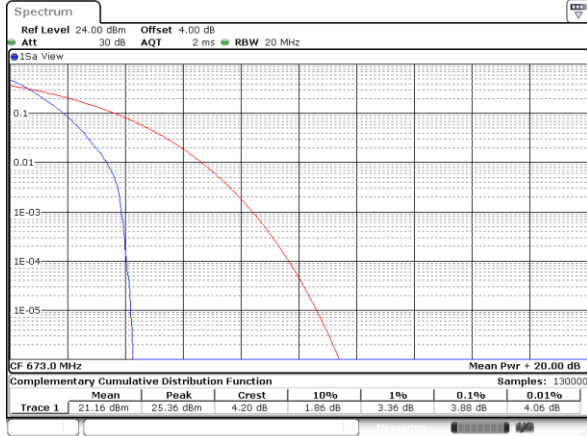
FR1 n71 / 20MHz / DFT-S OFDM

PI/2 BPSK

QPSK

Lowest Channel / Full RB

Lowest Channel / Full RB

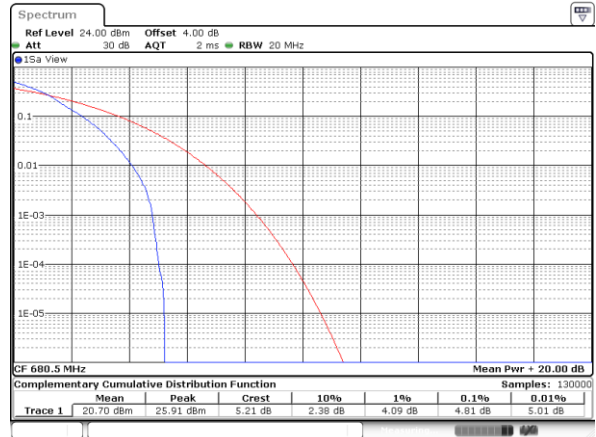
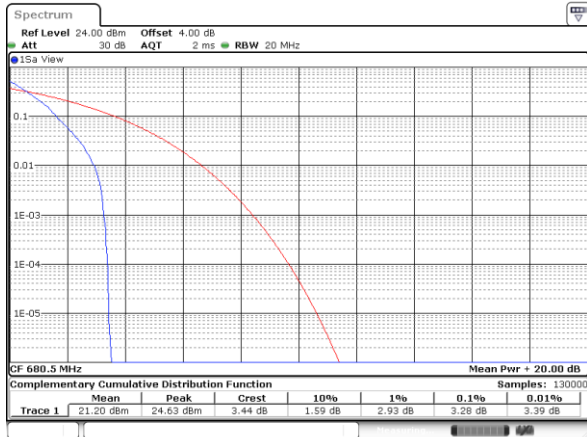


Date: 10.FEB.2021 18:45:49

Date: 10.FEB.2021 18:46:00

Middle Channel / Full RB

Middle Channel / Full RB

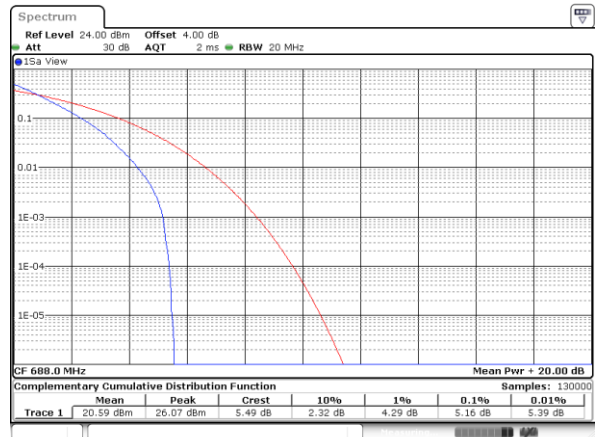
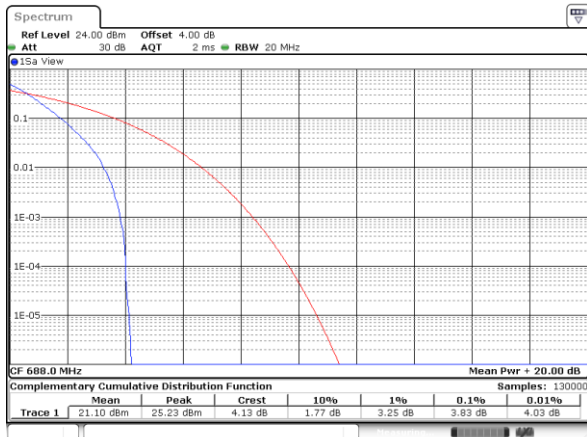


Date: 10.FEB.2021 18:50:53

Date: 10.FEB.2021 18:50:31

Highest Channel / Full RB

Highest Channel / Full RB



Date: 10.FEB.2021 19:18:16

Date: 10.FEB.2021 19:19:09



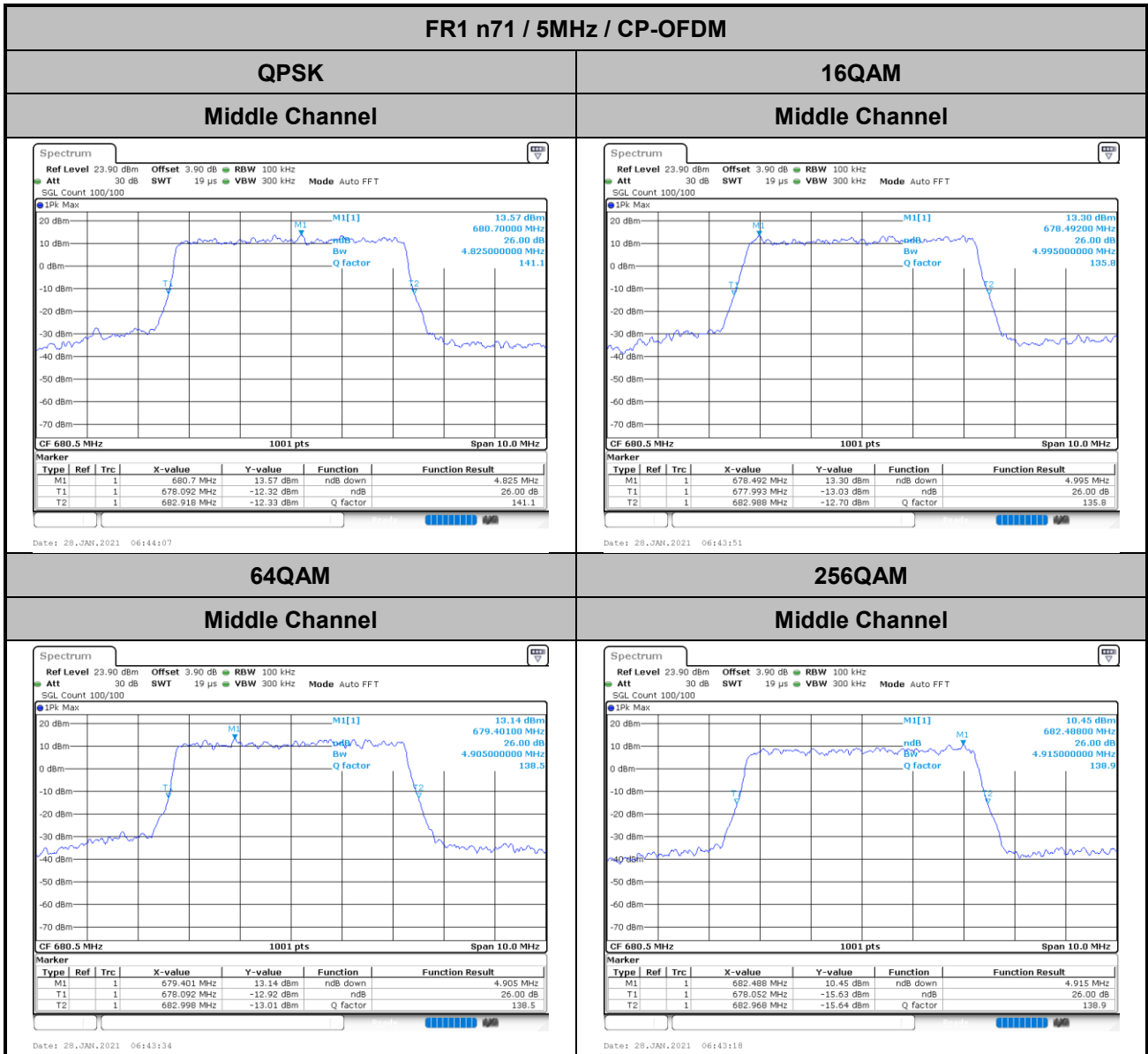
**26dB Bandwidth**

Mode	FR1 n71 : 26dB BW(MHz) / CP-OFDM							
BW	5MHz	5MHz	5MHz	5MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	4.83	5.00	4.91	4.92				

Mode	FR1 n71 : 26dB BW(MHz) / CP-OFDM							
BW	10MHz	10MHz	10MHz	10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	9.77	9.67	9.79	9.75				

Mode	FR1 n71 : 26dB BW(MHz) / CP-OFDM							
BW	15MHz	15MHz	15MHz	15MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	14.96	15.04	14.98	14.98				

Mode	FR1 n71 : 26dB BW(MHz) / CP-OFDM							
BW	20MHz	20MHz	20MHz	20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	19.78	19.86	19.86	19.90				





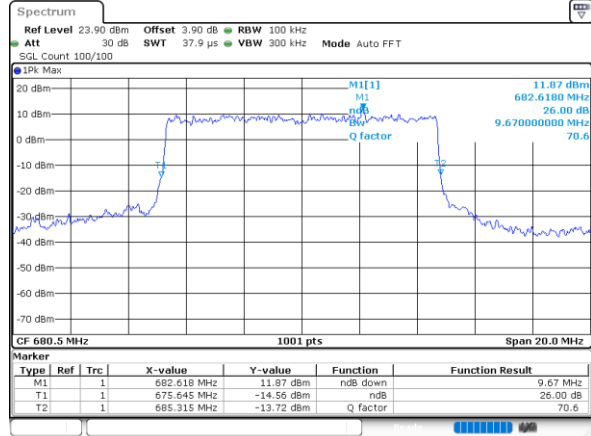
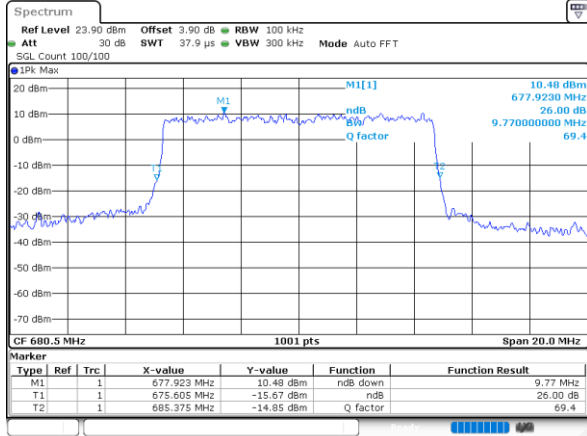
FR1 n71 / 10MHz / CP-OFDM

QPSK

16QAM

Middle Channel

Middle Channel



Date: 28.JAN.2021 06:41:41

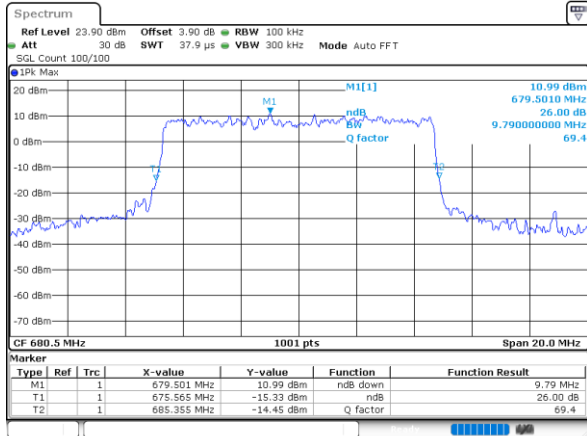
Date: 28.JAN.2021 06:41:58

64QAM

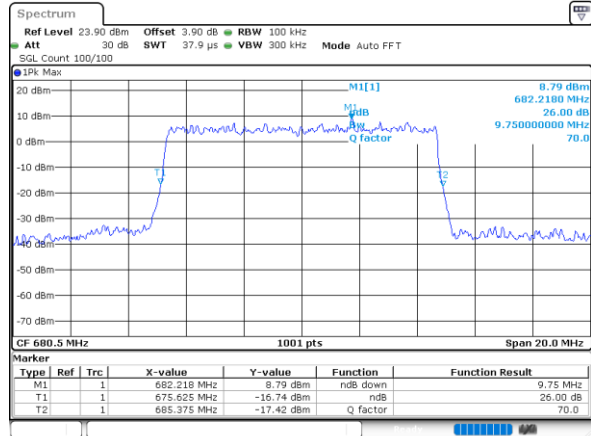
256QAM

Middle Channel

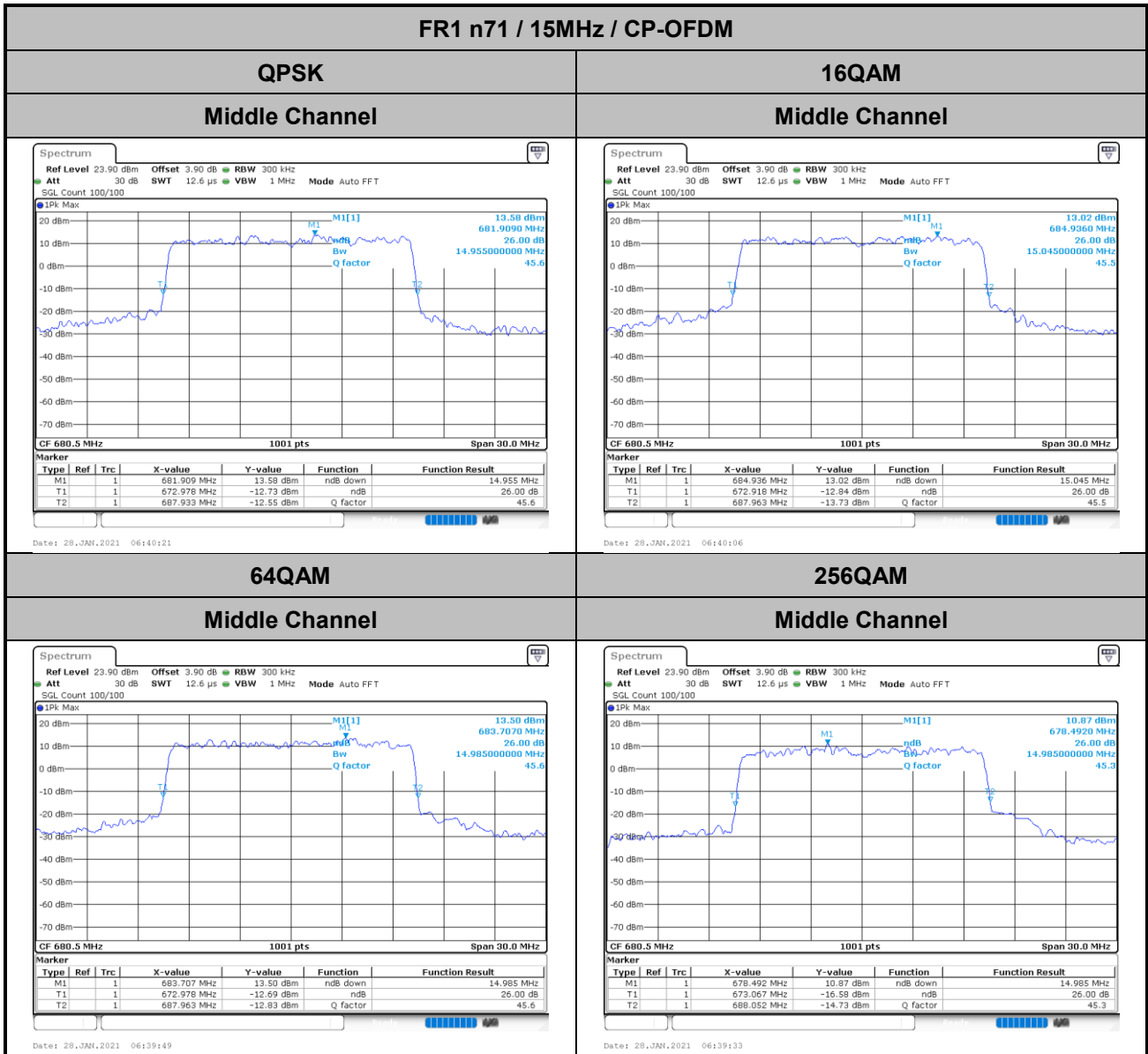
Middle Channel



Date: 28.JAN.2021 06:42:16



Date: 28.JAN.2021 06:42:33







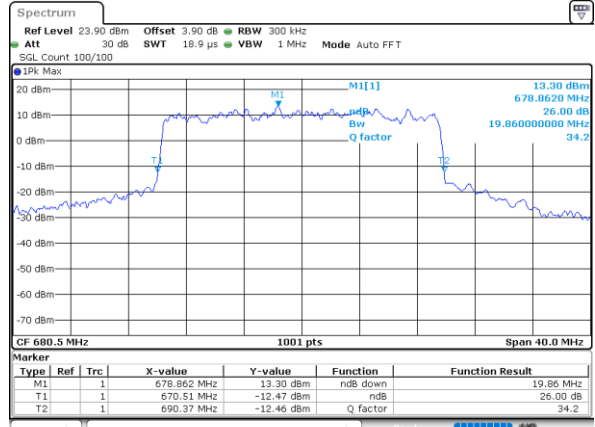
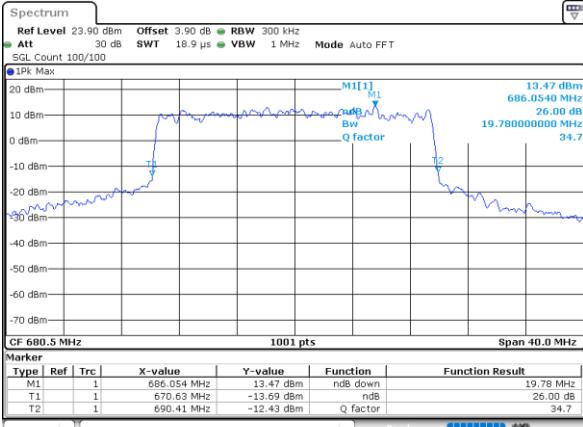
FR1 n71 / 20MHz / CP-OFDM

QPSK

16QAM

Middle Channel

Middle Channel



Date: 28\_JAN,2021 06:37:51

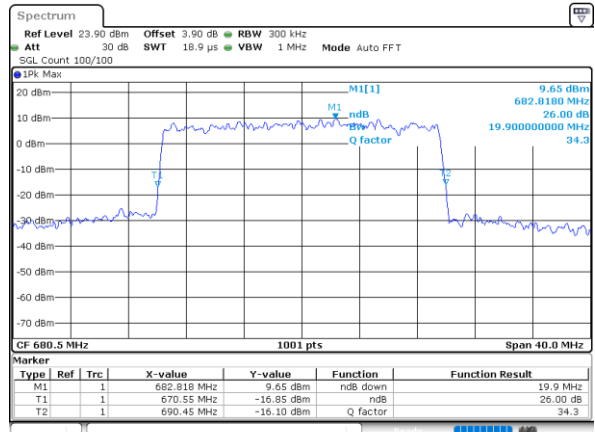
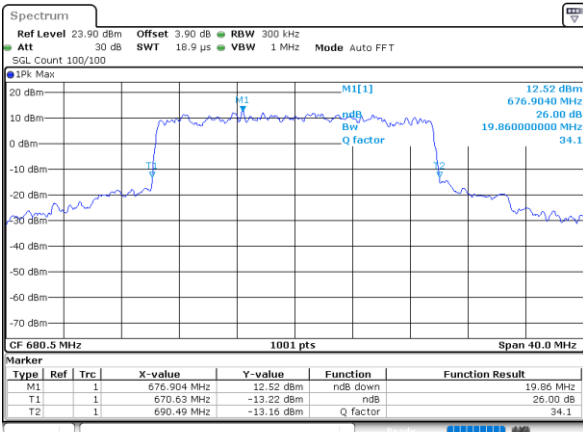
Date: 28\_JAN,2021 06:38:16

64QAM

256QAM

Middle Channel

Middle Channel



Date: 28\_JAN,2021 06:38:34

Date: 28\_JAN,2021 06:38:50



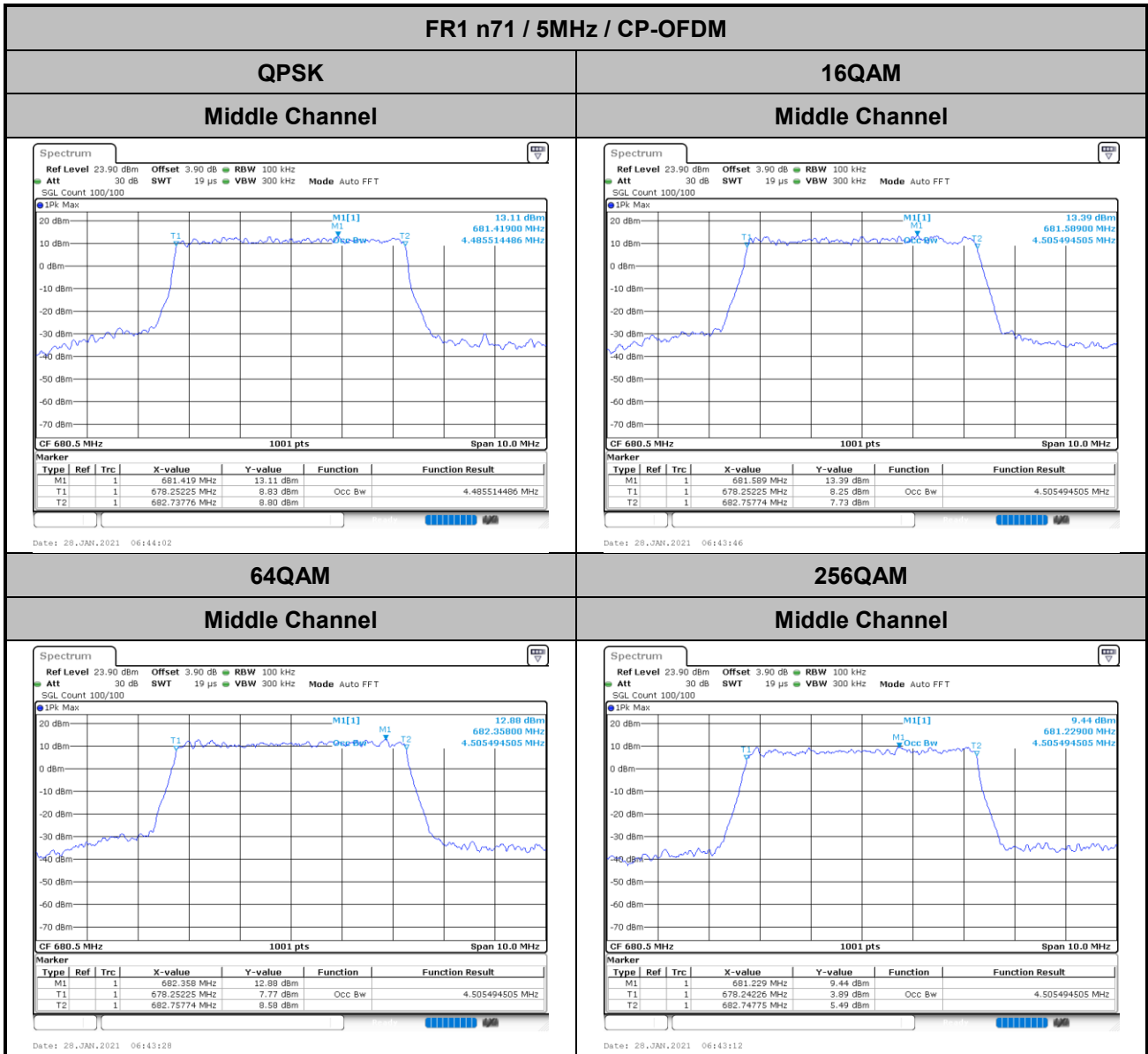
### Occupied Bandwidth

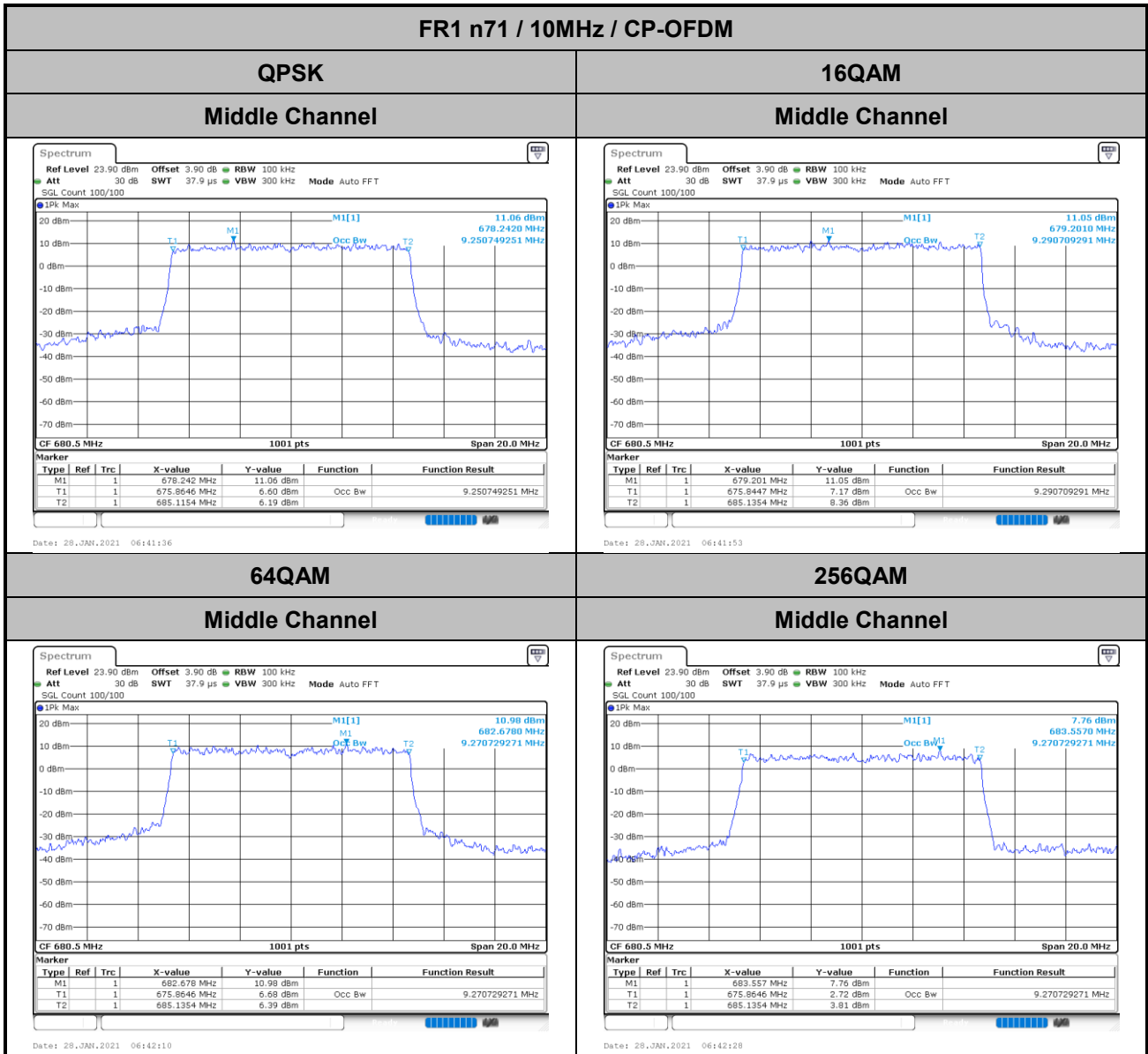
Mode	FR1 n71 : OBW(MHz) / CP-OFDM							
BW	5MHz	5MHz	5MHz	5MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	4.49	4.51	4.51	4.51				

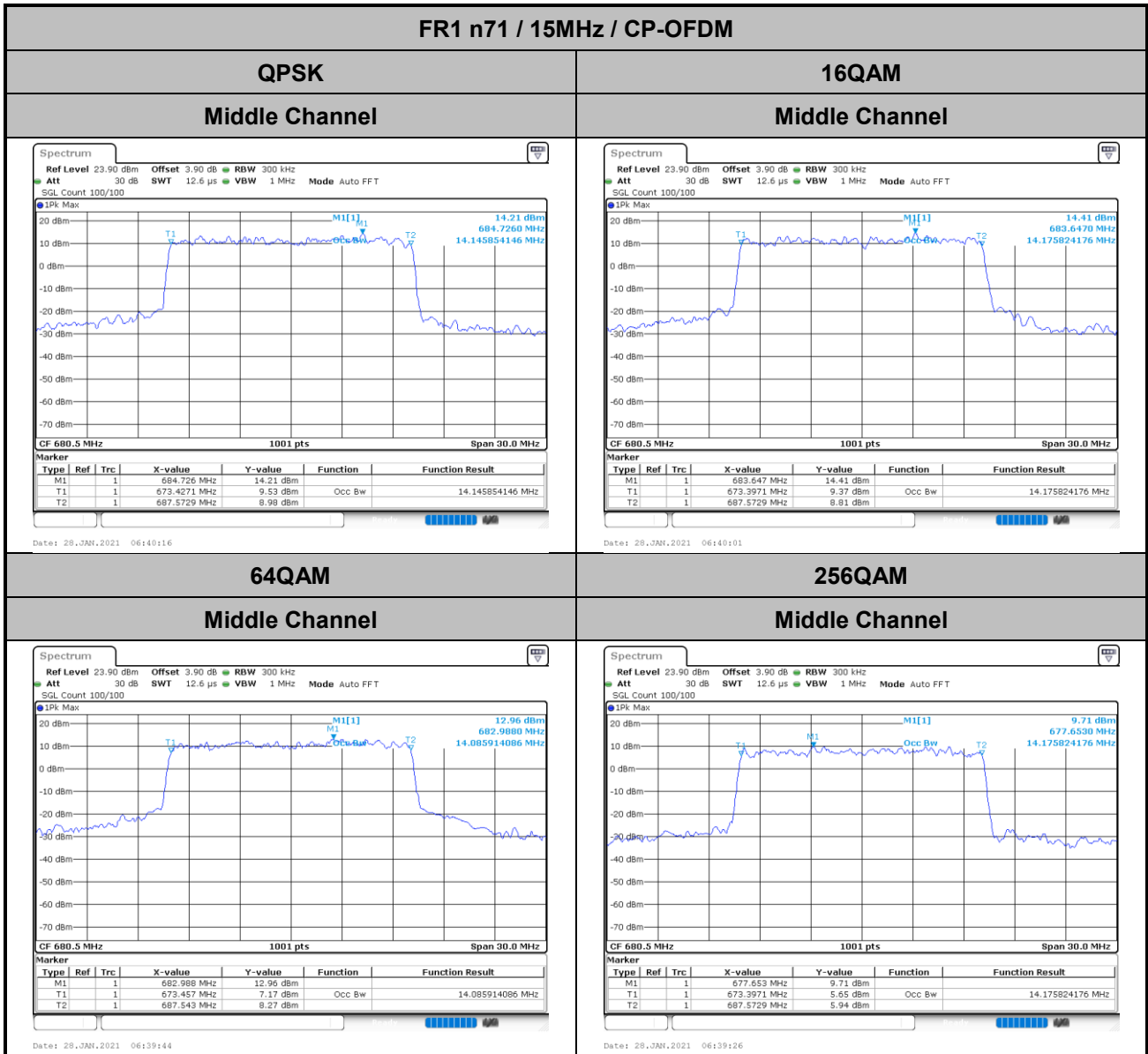
Mode	FR1 n71 : OBW(MHz) / CP-OFDM							
BW	10MHz	10MHz	10MHz	10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	9.25	9.29	9.27	9.27				

Mode	FR1 n71 : OBW(MHz) / CP-OFDM							
BW	15MHz	15MHz	15MHz	15MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	14.15	14.18	14.09	14.18				

Mode	FR1 n71 : OBW(MHz) / CP-OFDM							
BW	20MHz	20MHz	20MHz	20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	18.90	18.90	18.86	18.86				









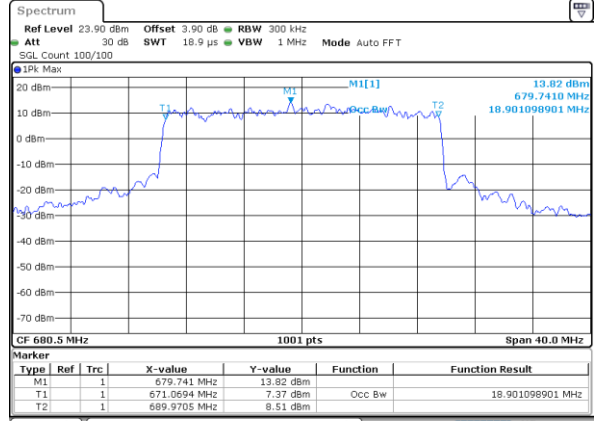
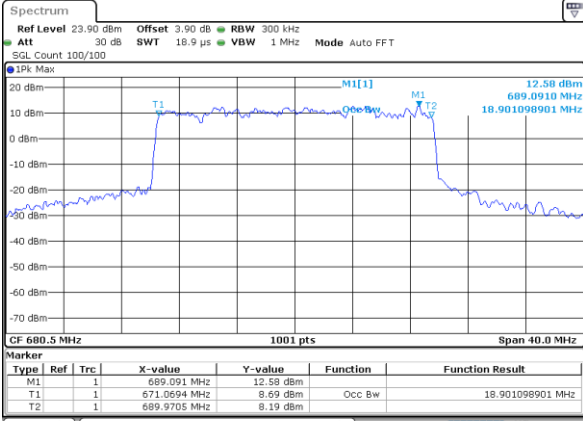
FR1 n71 / 20MHz / CP-OFDM

QPSK

16QAM

Middle Channel

Middle Channel



Date: 28\_JAN.2021 06:37:45

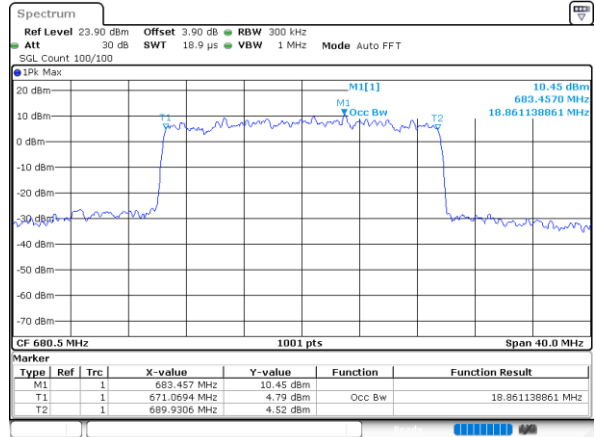
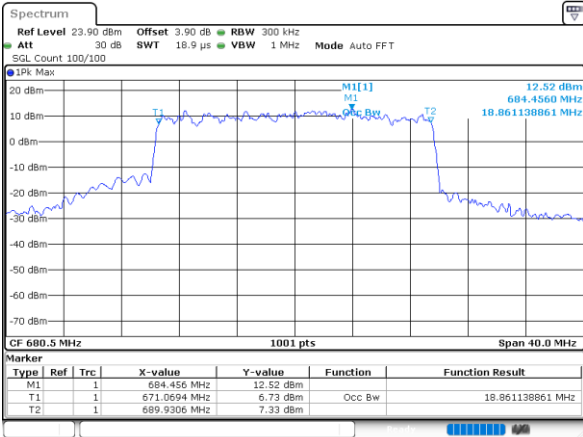
Date: 28\_JAN.2021 06:38:03

64QAM

256QAM

Middle Channel

Middle Channel

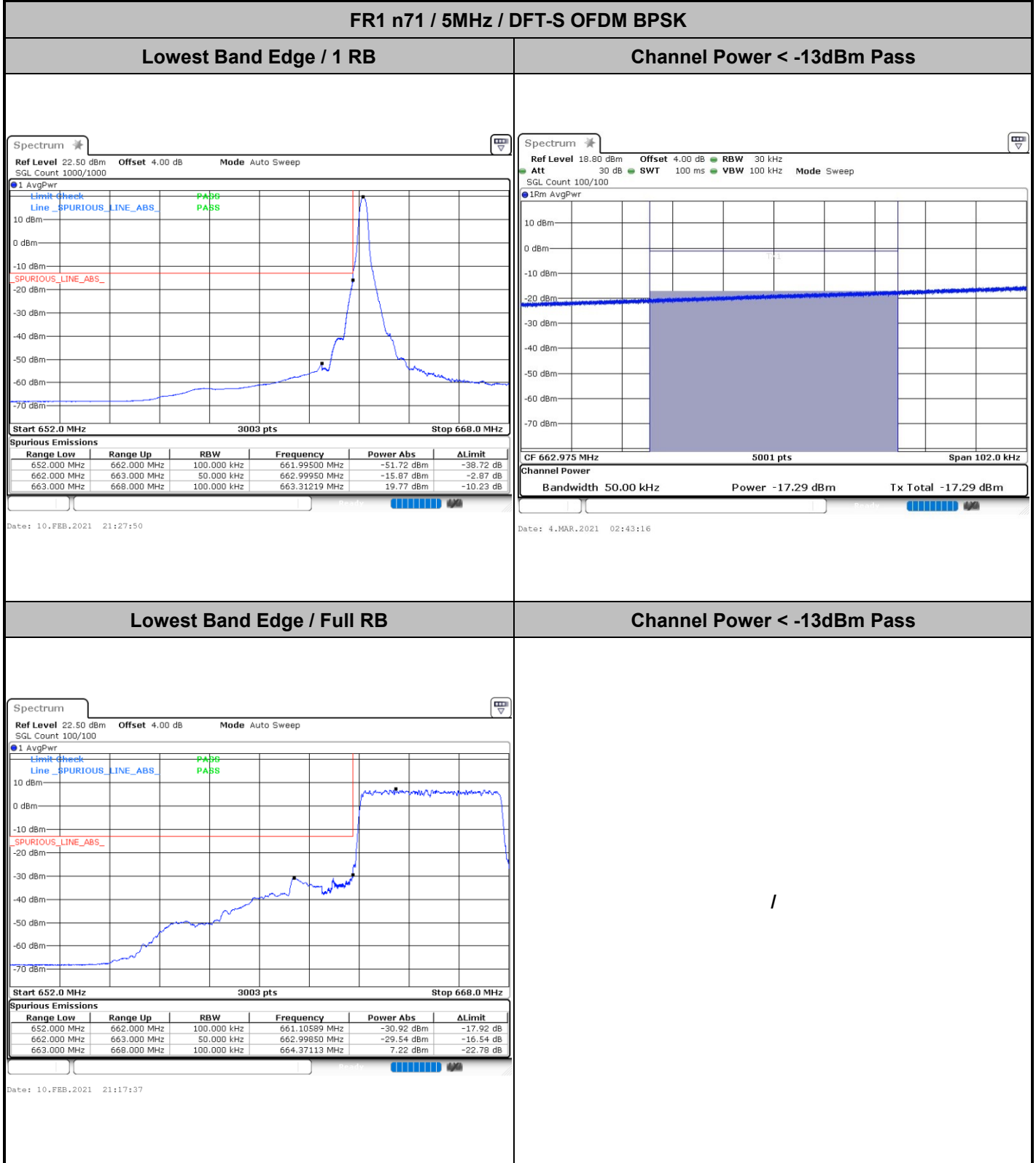


Date: 28\_JAN.2021 06:38:27

Date: 28\_JAN.2021 06:38:44



# Conducted Band Edge

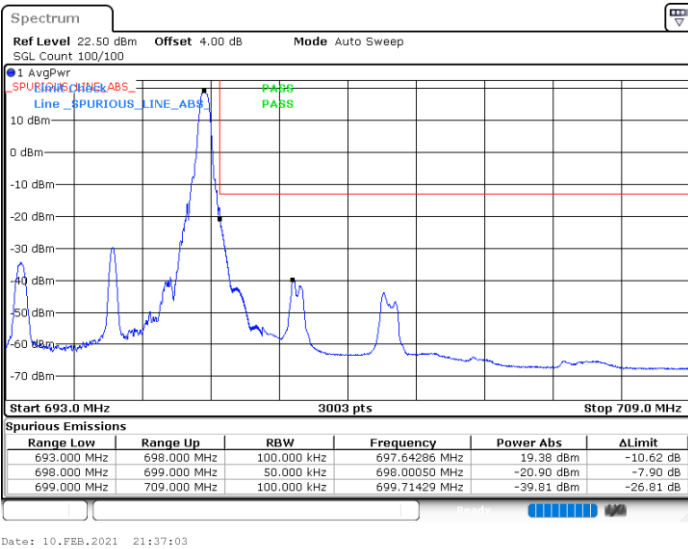




FR1 n71 / 5MHz / DFT-S OFDM BPSK

Highest Band Edge / 1 RB

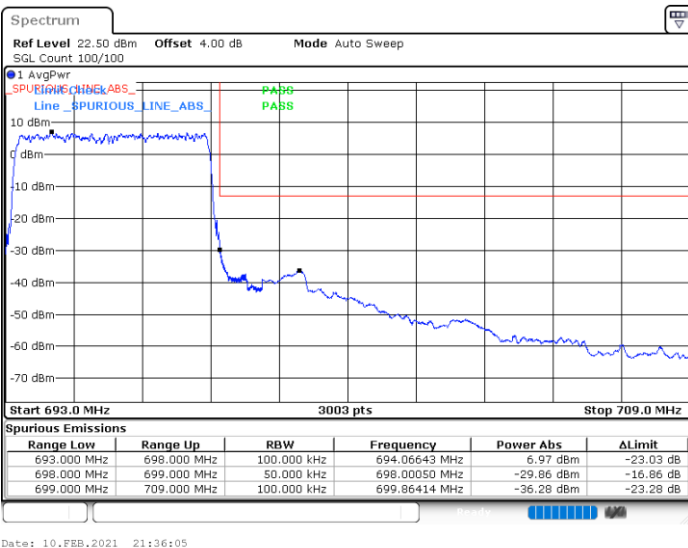
Channel Power < -13dBm Pass



Date: 10.FEB.2021 21:37:03

Highest Band Edge / Full RB

Channel Power < -13dBm Pass



Date: 10.FEB.2021 21:36:05

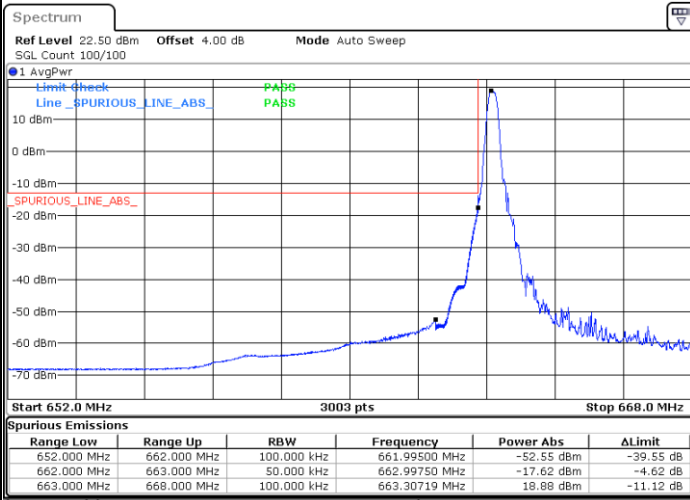




FR1 n71 / 5MHz / DFT-S OFDM QPSK

Lowest Band Edge / 1 RB

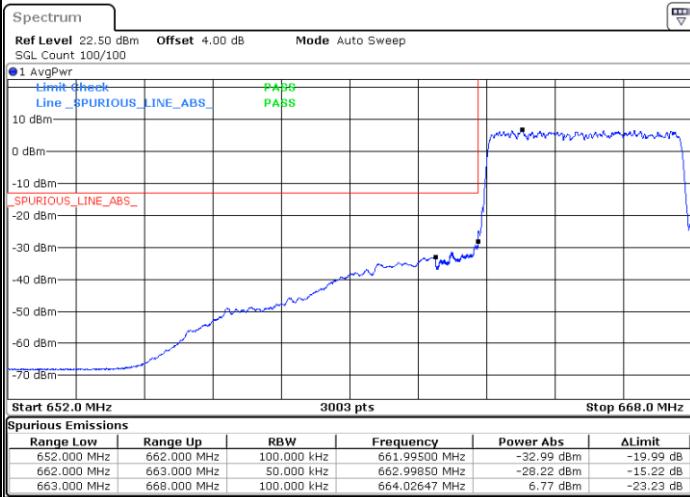
Channel Power < -13dBm Pass



Date: 10.FEB.2021 21:30:46

Lowest Band Edge / Full RB

Channel Power < -13dBm Pass



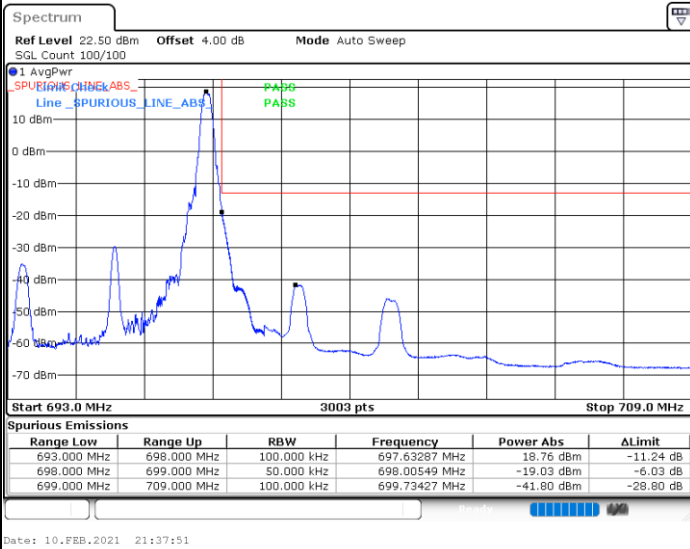
Date: 10.FEB.2021 21:16:43



FR1 n71 / 5MHz / DFT-S OFDM QPSK

Highest Band Edge / 1 RB

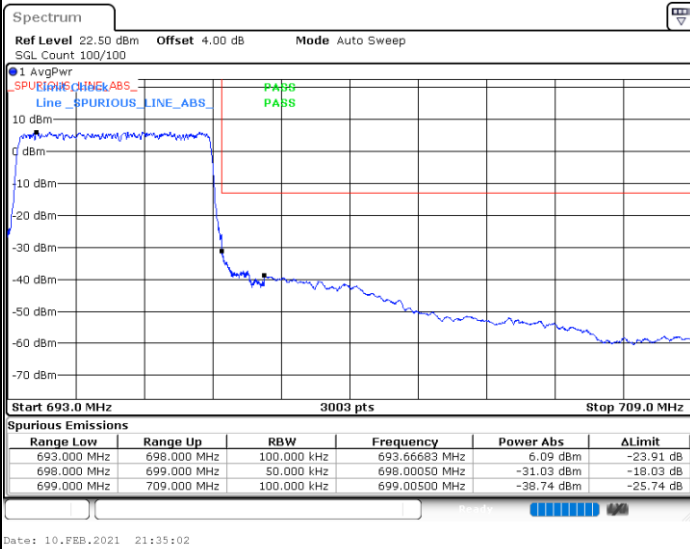
Channel Power < -13dBm Pass



/

Highest Band Edge / Full RB

Channel Power < -13dBm Pass



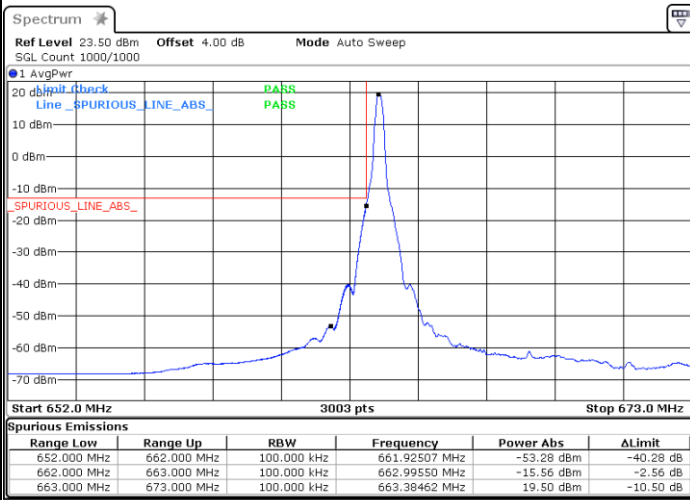
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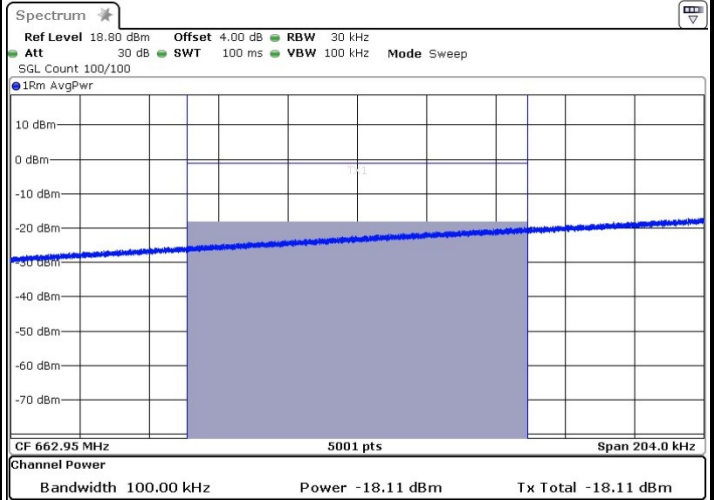
FR1 n71 / 10MHz / DFT-S OFDM BPSK

Lowest Band Edge / 1 RB

Channel Power < -13dBm Pass



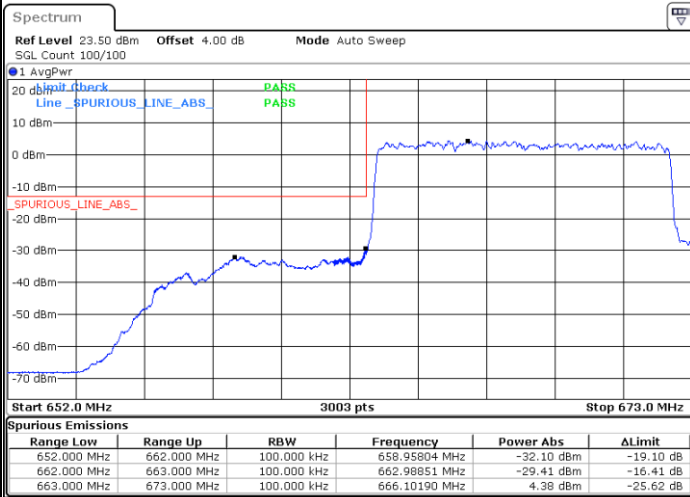
Date: 10.FEB.2021 21:00:59



Date: 10.FEB.2021 21:02:56

Lowest Band Edge / Full RB

Channel Power < -13dBm Pass



Date: 10.FEB.2021 20:21:01

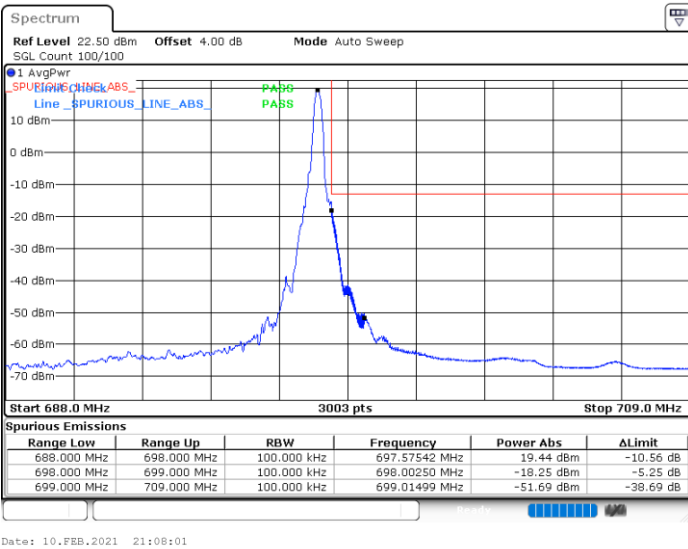
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FR1 n71 / 10MHz / DFT-S OFDM BPSK

Highest Band Edge / 1 RB

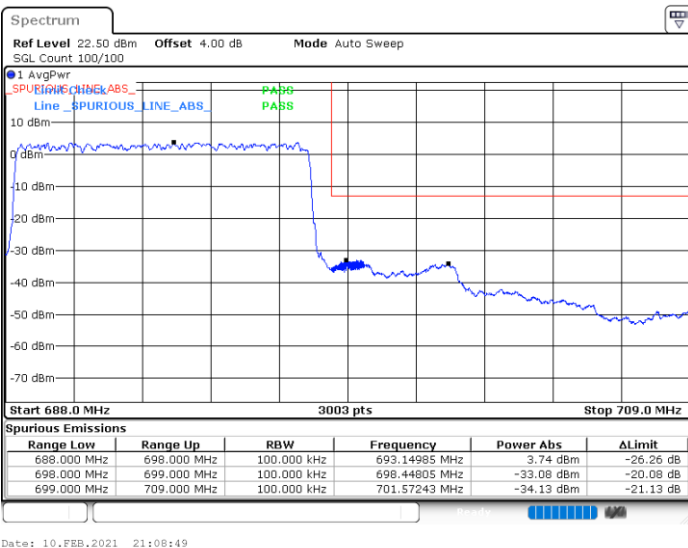
Channel Power < -13dBm Pass



/

Highest Band Edge / Full RB

Channel Power < -13dBm Pass



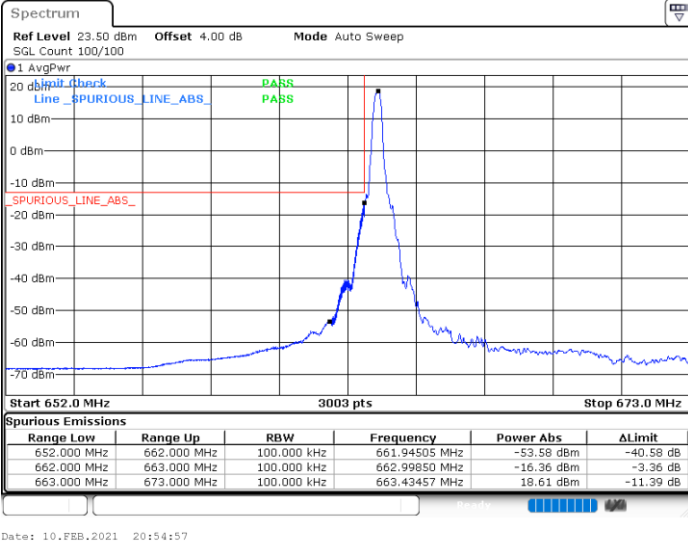
/



FR1 n71 / 10MHz / DFT-S OFDM QPSK

Lowest Band Edge / 1 RB

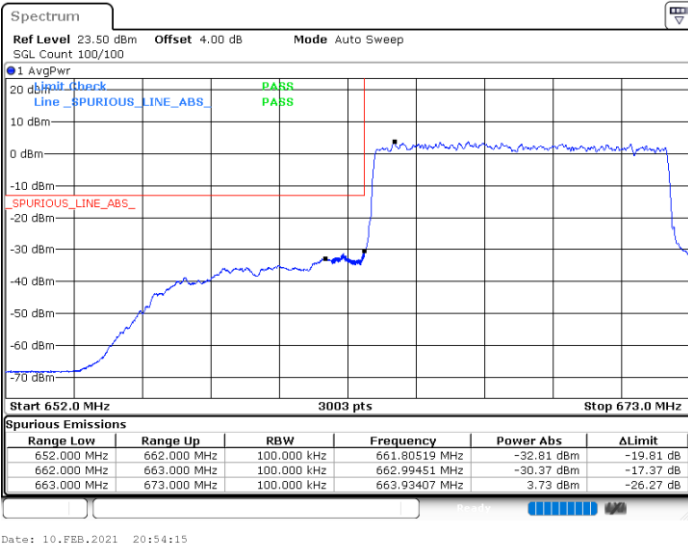
Channel Power < -13dBm Pass



/

Lowest Band Edge / Full RB

Channel Power < -13dBm Pass



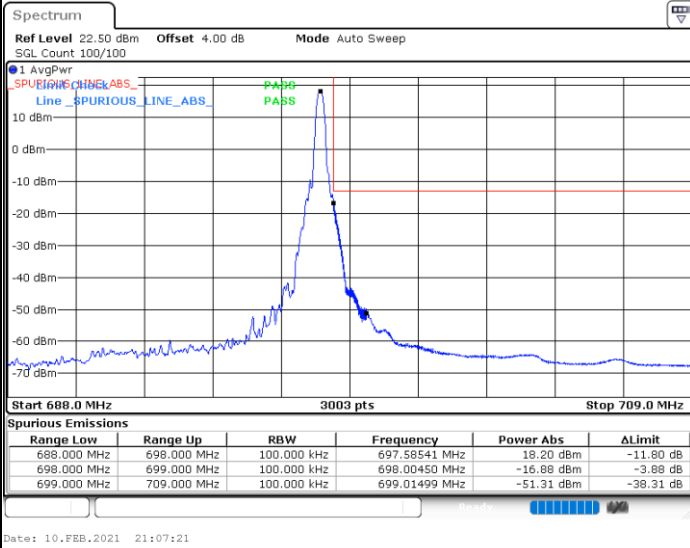
/



FR1 n71 / 10MHz / DFT-S OFDM QPSK

Highest Band Edge / 1 RB

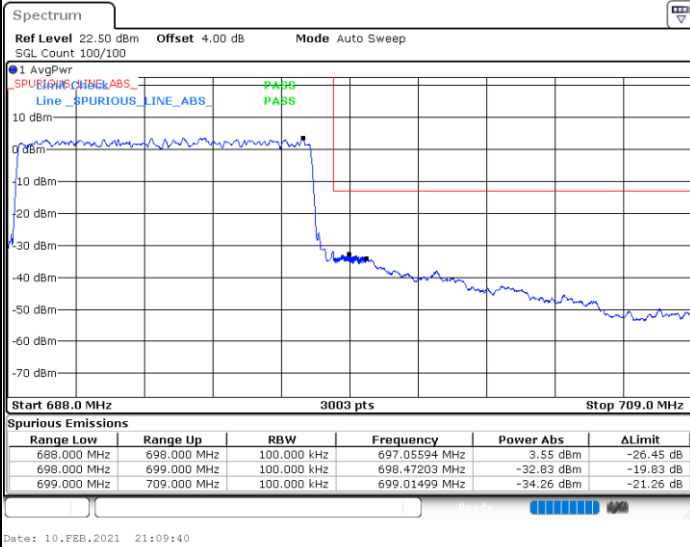
Channel Power < -13dBm Pass



/

Highest Band Edge / Full RB

Channel Power < -13dBm Pass



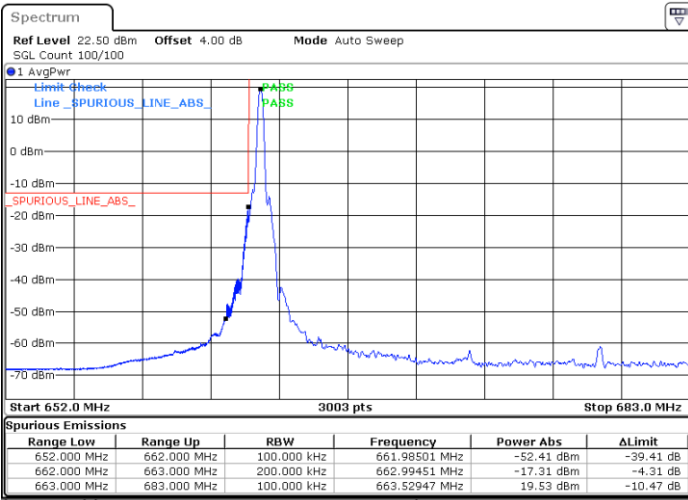
/



FR1 n71 / 20MHz / DFT-S OFDM BPSK

Lowest Band Edge / 1 RB

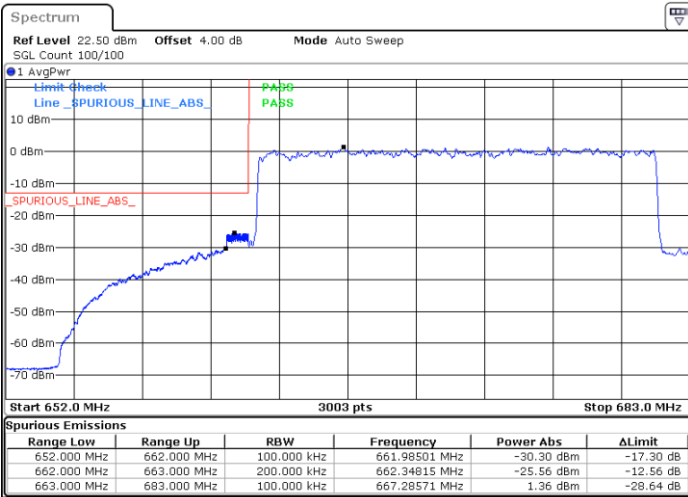
Channel Power < -13dBm Pass



Date: 10.FEB.2021 18:44:45

Lowest Band Edge / Full RB

Channel Power < -13dBm Pass



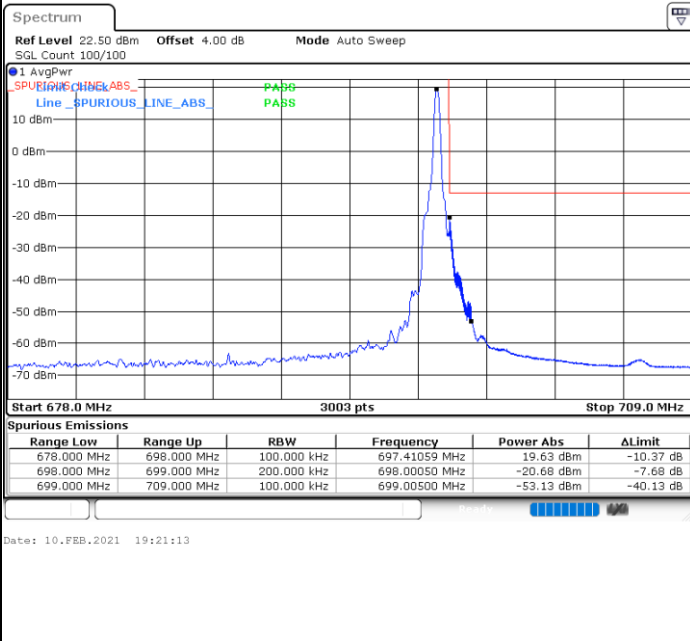
Date: 10.FEB.2021 18:45:42



FR1 n71 / 20MHz / DFT-S OFDM BPSK

Highest Band Edge / 1 RB

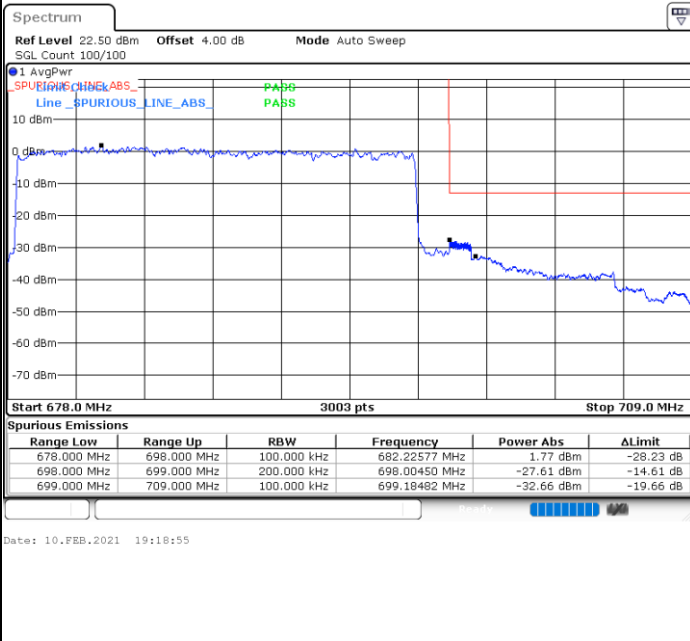
Channel Power < -13dBm Pass



/

Highest Band Edge / Full RB

Channel Power < -13dBm Pass



/

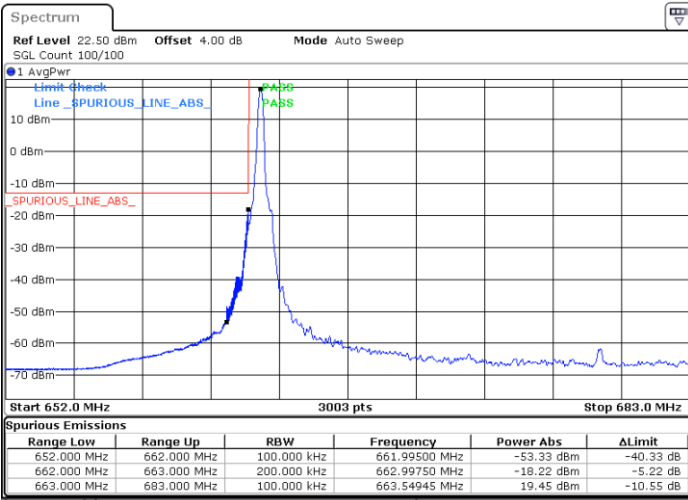




FR1 n71 / 20MHz / DFT-S OFDM QPSK

Lowest Band Edge / 1 RB

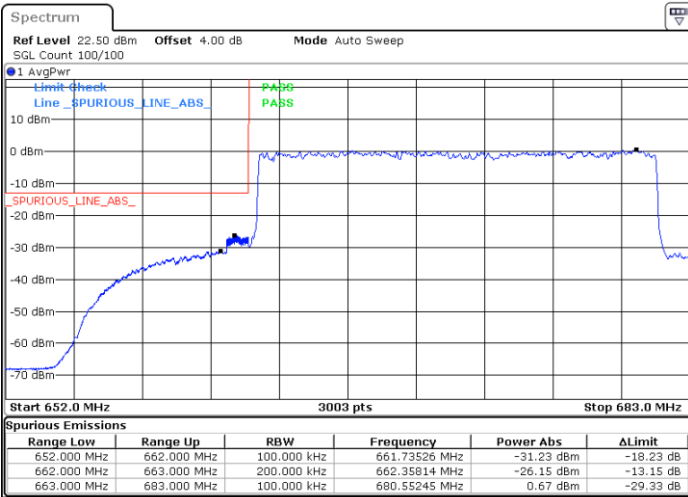
Channel Power < -13dBm Pass



Date: 10.FEB.2021 18:43:48

Lowest Band Edge / Full RB

Channel Power < -13dBm Pass



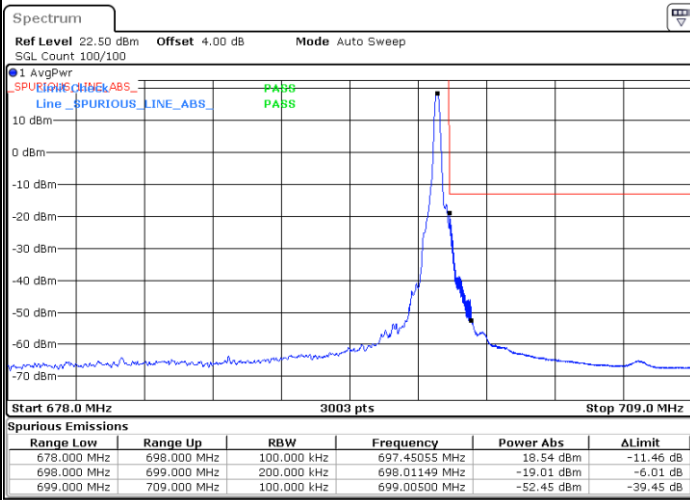
Date: 10.FEB.2021 18:46:38



FR1 n71 / 20MHz / DFT-S OFDM QPSK

Highest Band Edge / 1 RB

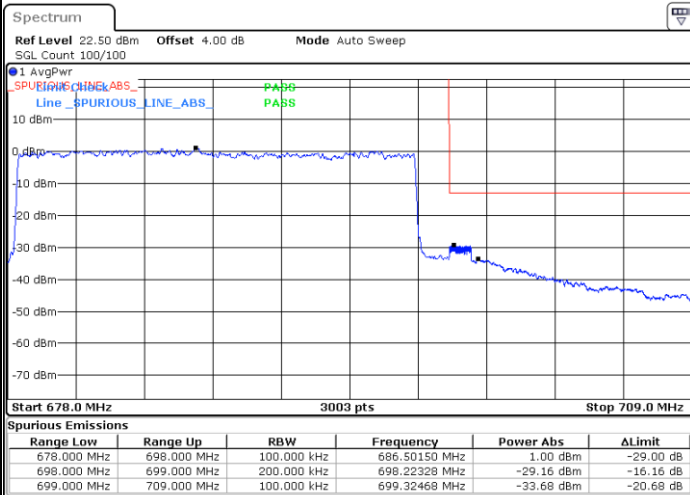
Channel Power < -13dBm Pass



Date: 10.FEB.2021 19:20:34

Highest Band Edge / Full RB

Channel Power < -13dBm Pass



Date: 10.FEB.2021 19:19:48

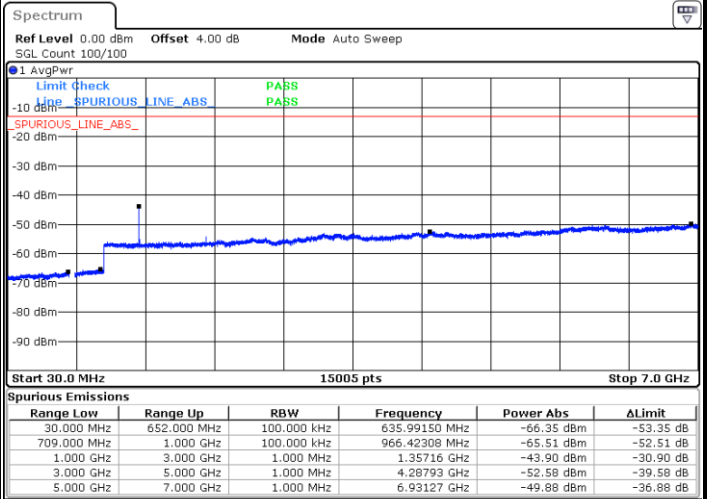
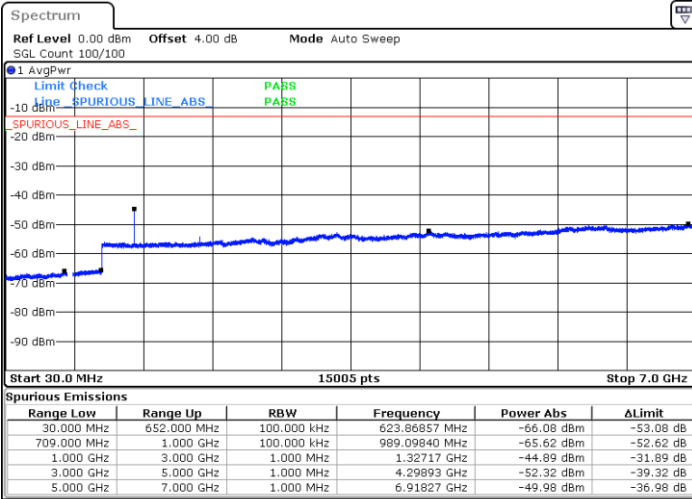


# Conducted Spurious Emission

FR1 n71 / 5MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB

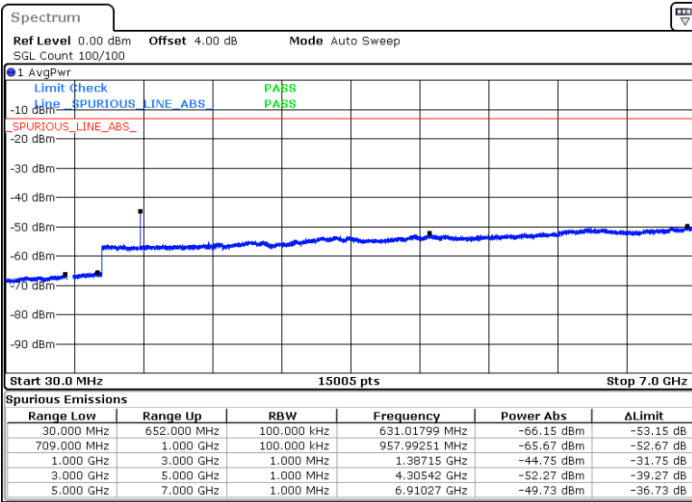
Middle Channel / 1RB



Date: 10.FEB.2021 21:28:14

Date: 10.FEB.2021 21:14:04

Highest Channel / 1RB



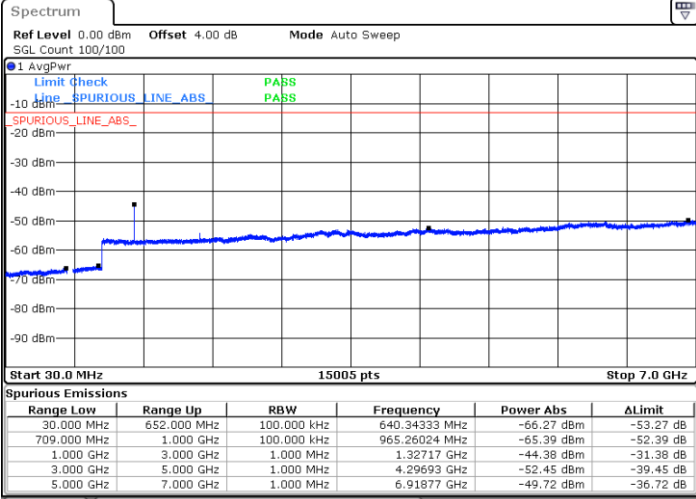
Date: 10.FEB.2021 21:32:54



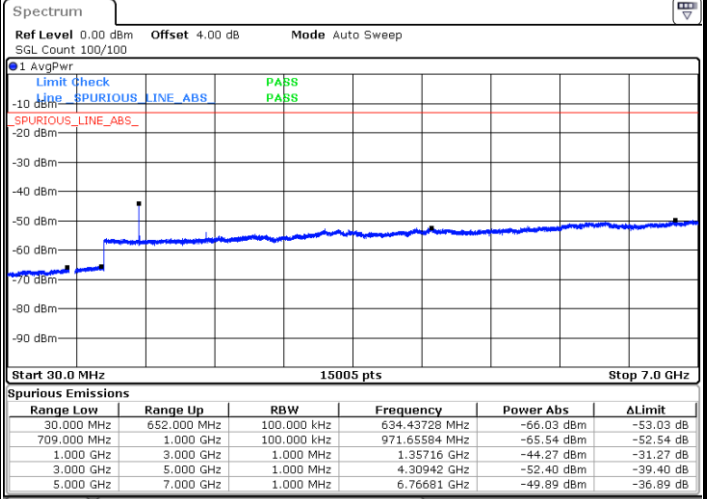
FR1 n71 / 5MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB

Middle Channel / 1RB

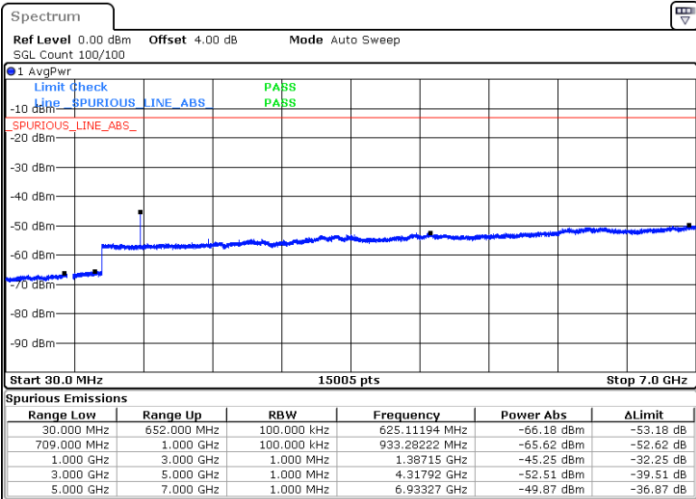


Date: 10.FEB.2021 21:31:53



Date: 10.FEB.2021 21:14:21

Highest Channel / 1RB



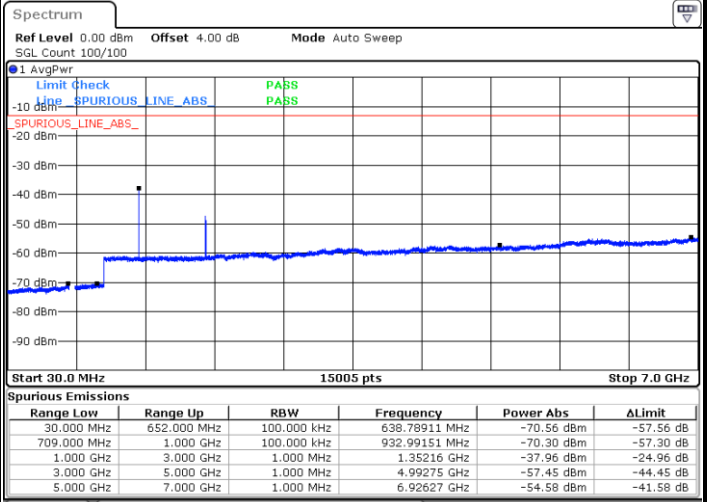
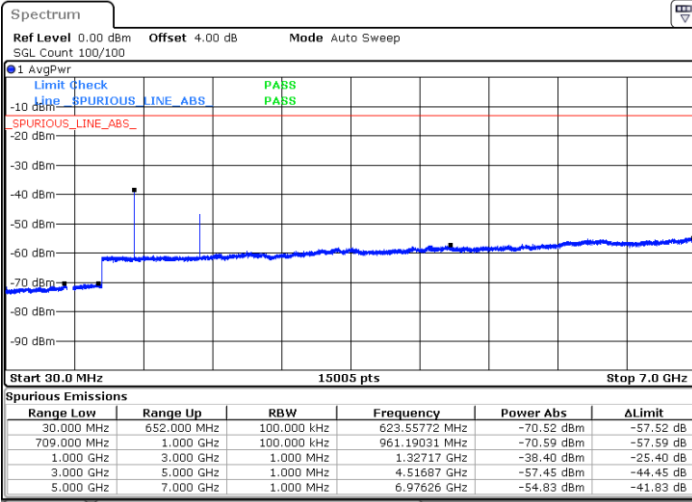
Date: 10.FEB.2021 21:32:36



FR1 n71 / 10MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB

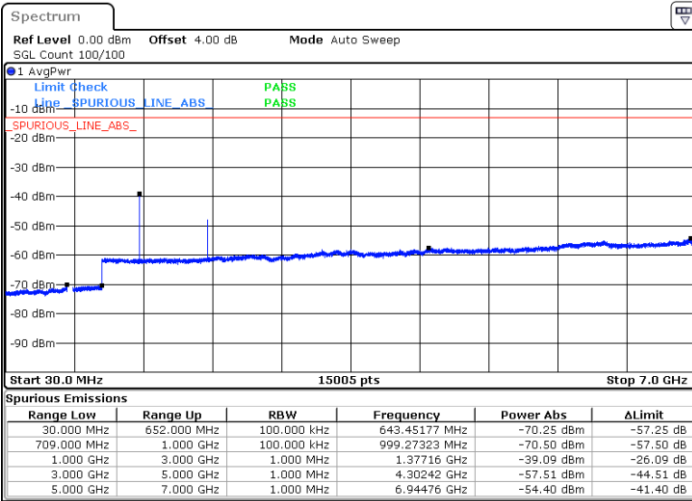
Middle Channel / 1RB



Date: 10.FEB.2021 21:04:07

Date: 10.FEB.2021 21:11:47

Highest Channel / 1RB



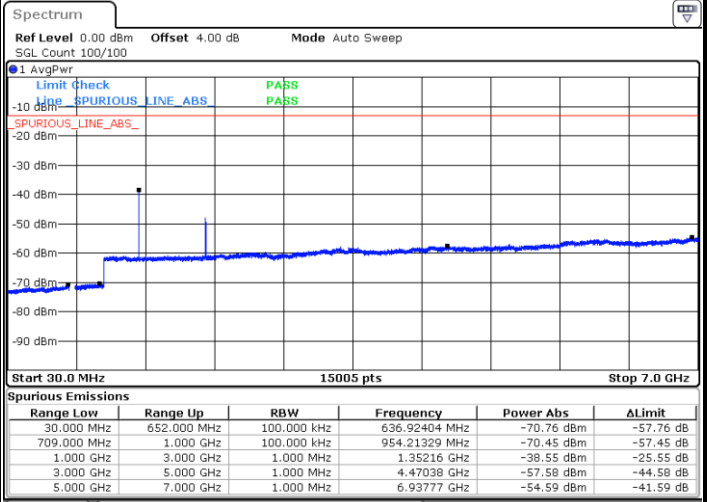
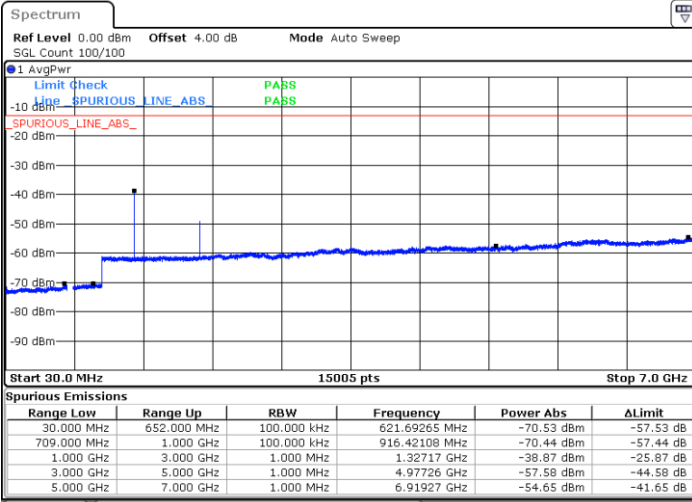
Date: 10.FEB.2021 21:06:04



FR1 n71 / 10MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB

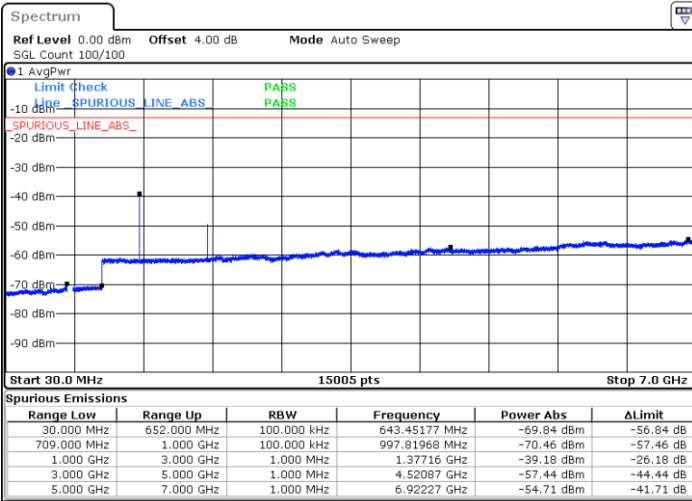
Middle Channel / 1RB



Date: 10.FEB.2021 20:55:25

Date: 10.FEB.2021 21:12:46

Highest Channel / 1RB



Date: 10.FEB.2021 21:06:40