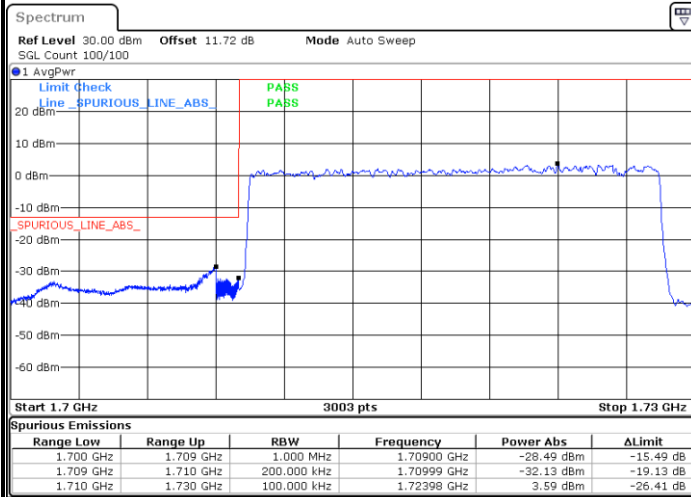


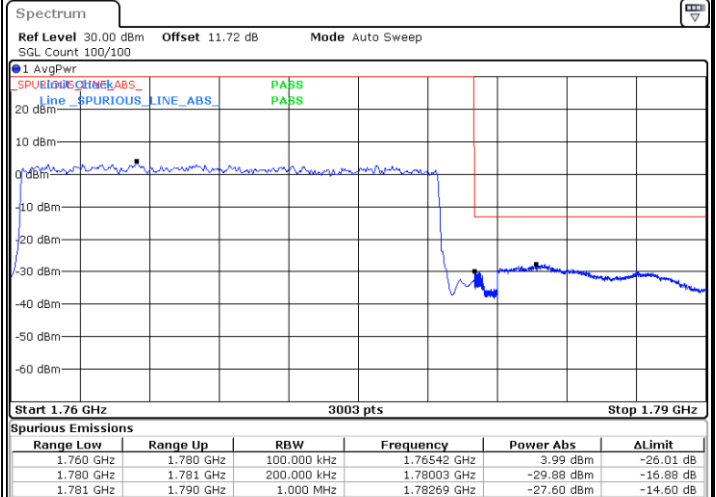


Lowest Band Edge / Full RB



Date: 29.MAR.2021 18:37:25

Highest Band Edge / Full RB



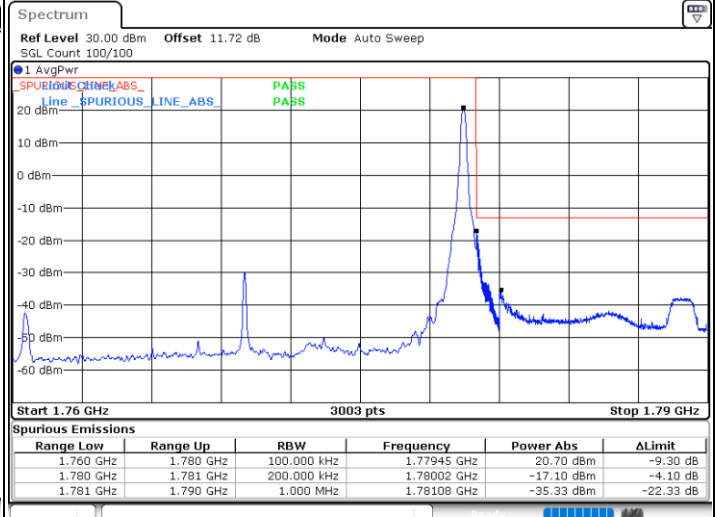
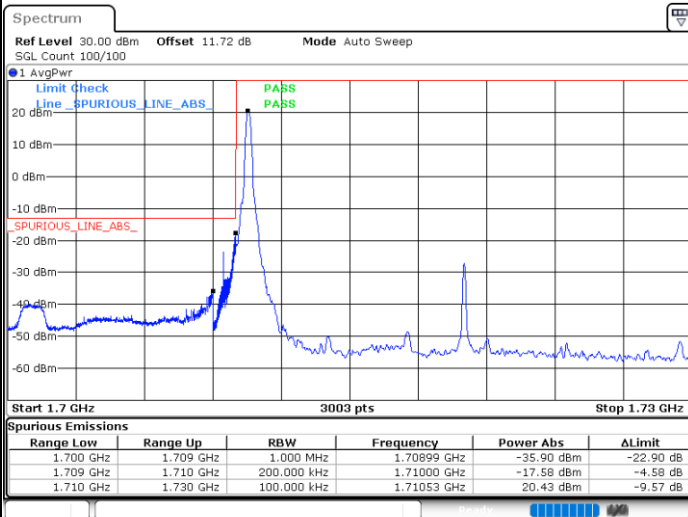
Date: 29.MAR.2021 18:41:47



FR1 n66 / 20MHz / DFT-s-OFDM / QPSK

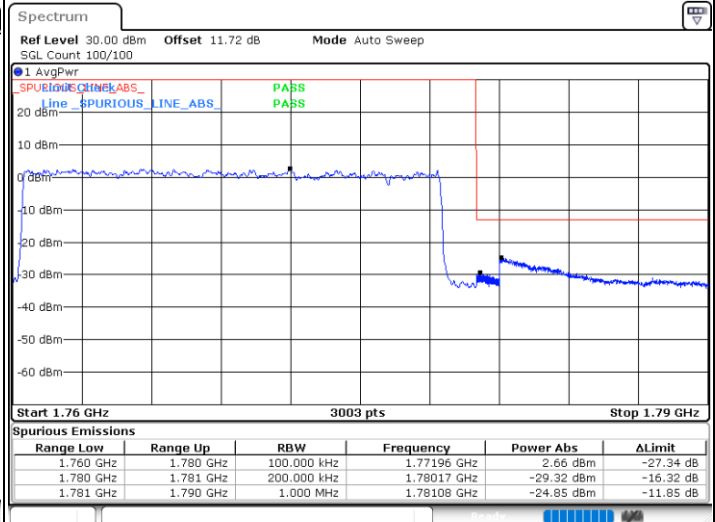
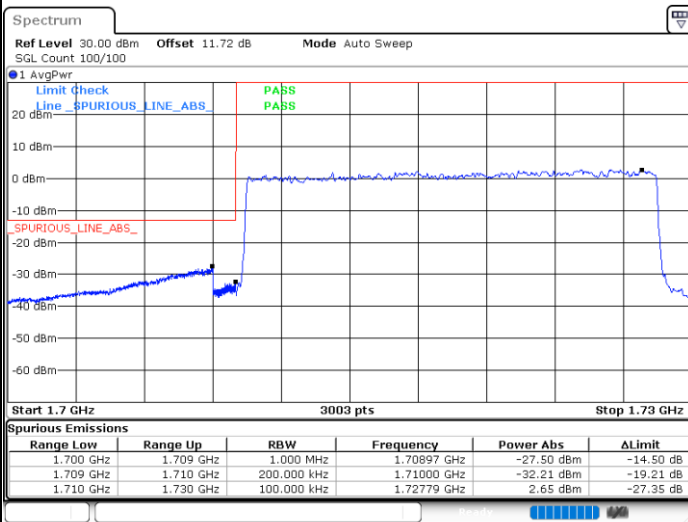
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

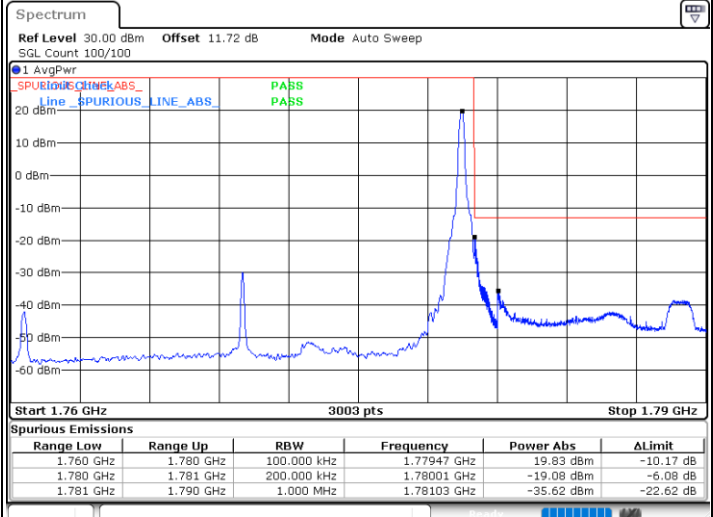
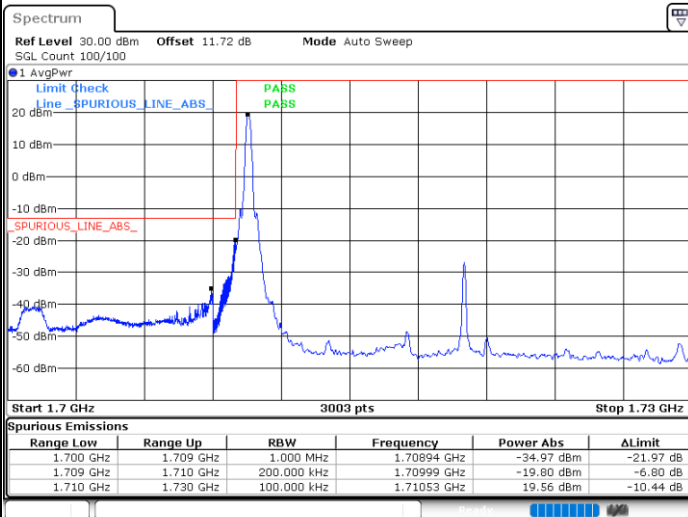




FR1 n66 / 20MHz / DFT-s-OFDM / 16QAM

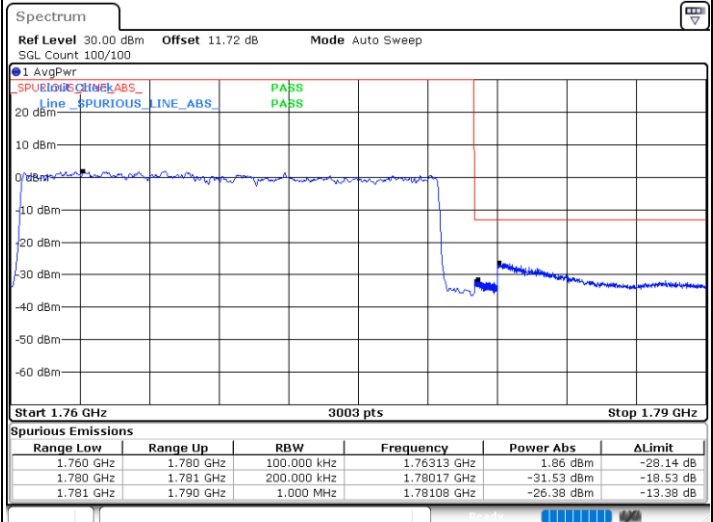
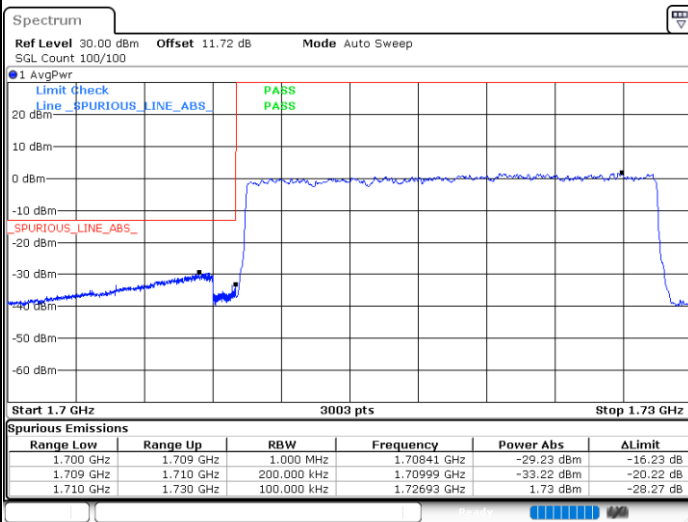
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

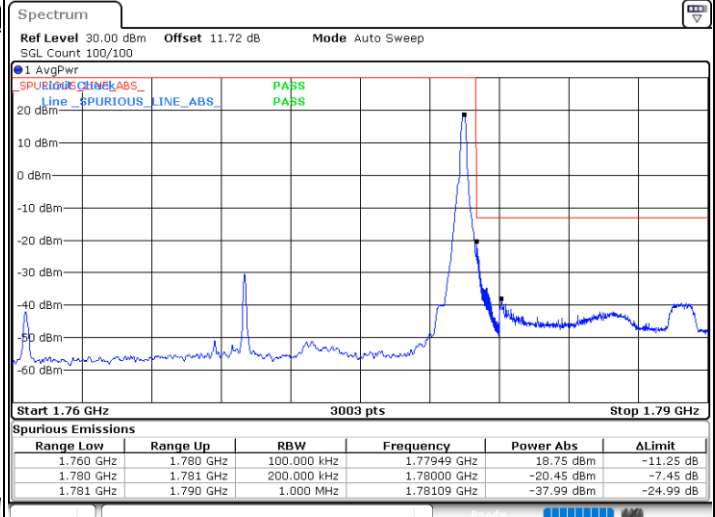
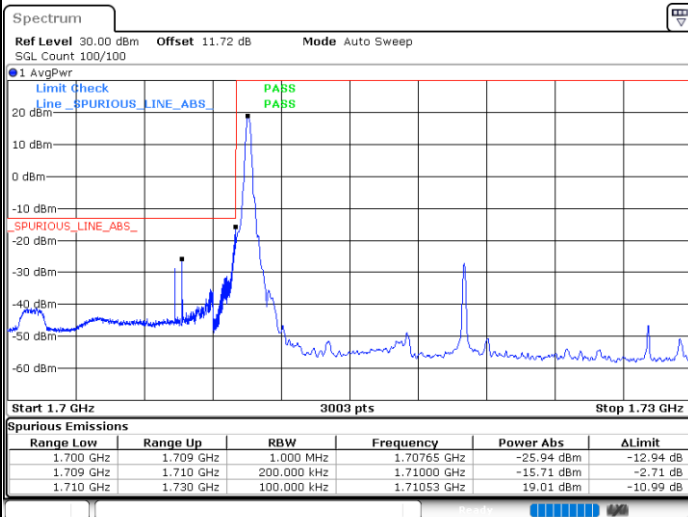




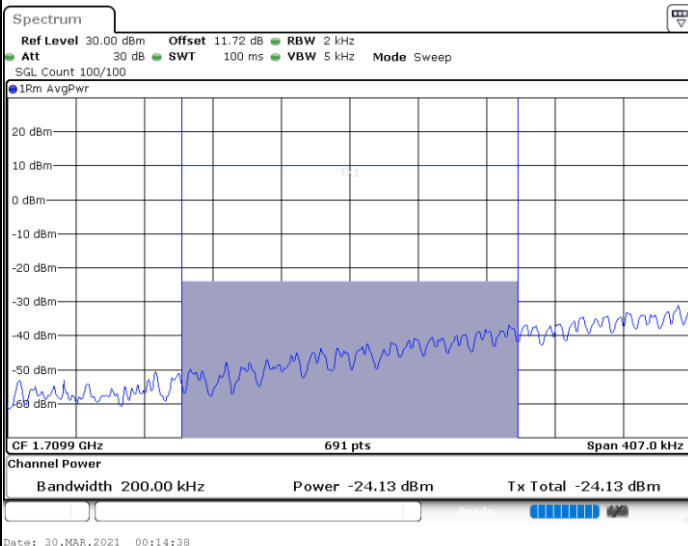
FR1 n66 / 20MHz / DFT-s-OFDM / 64QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

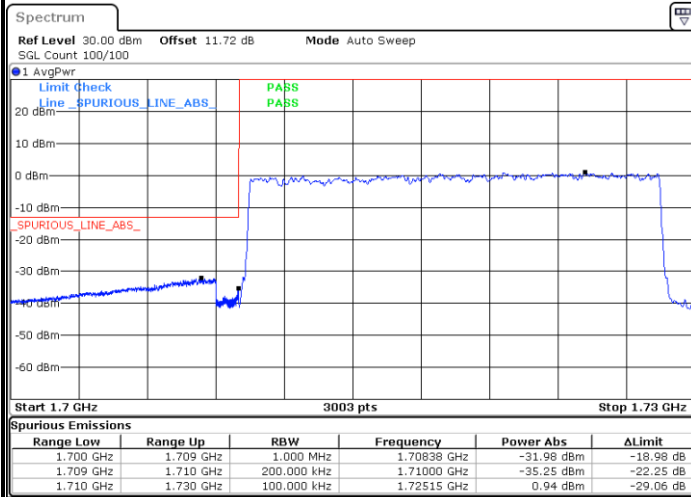


Channel Power -24.13dBm < -13dBm (Pass)



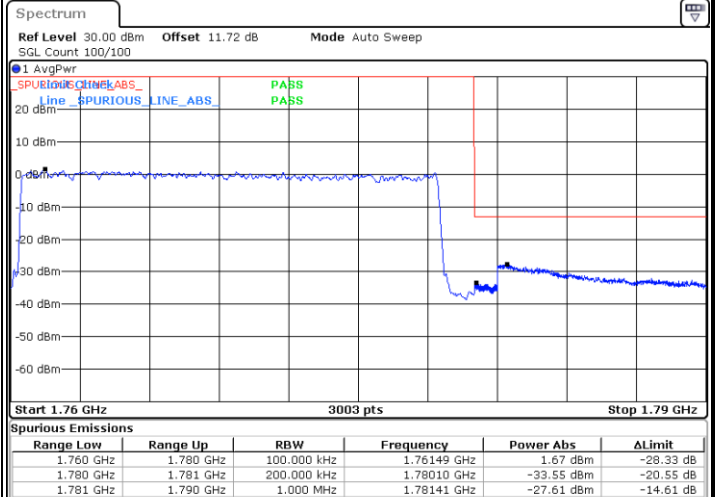


Lowest Band Edge / Full RB



Date: 29.MAR.2021 18:36:50

Highest Band Edge / Full RB

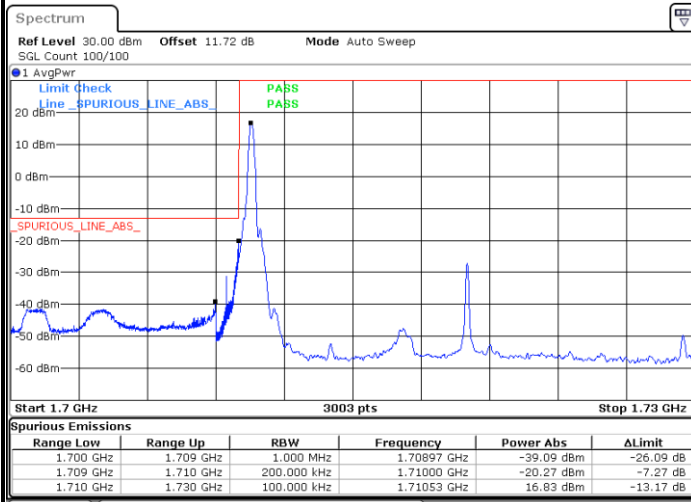


Date: 29.MAR.2021 18:41:10

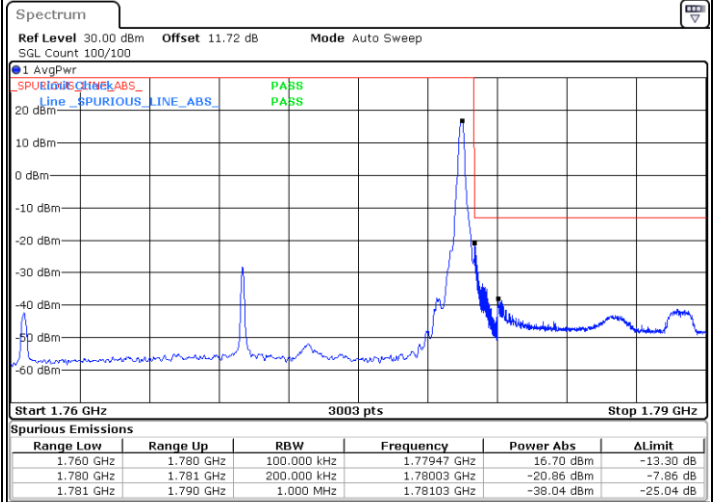


FR1 n66 / 20MHz / DFT-s-OFDM / 256QAM

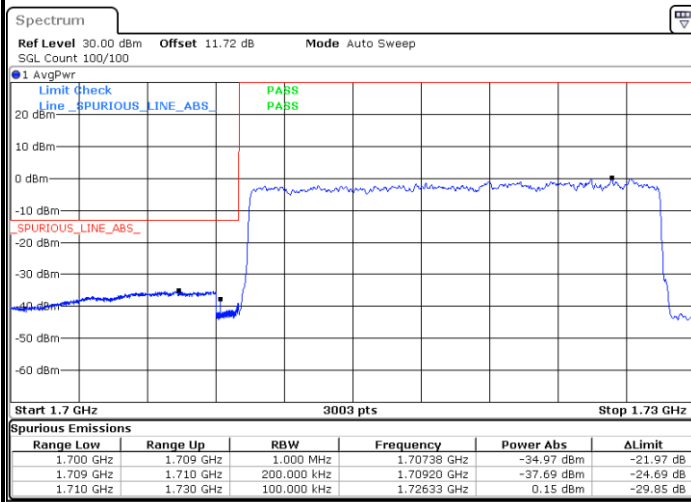
Lowest Band Edge / 1RB0



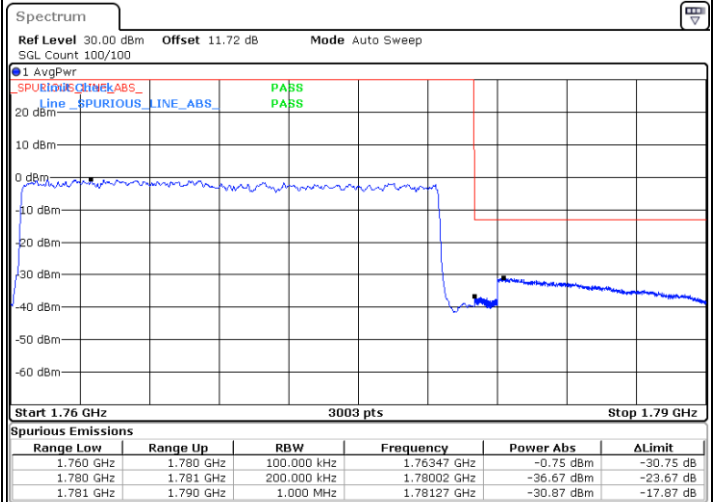
Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB



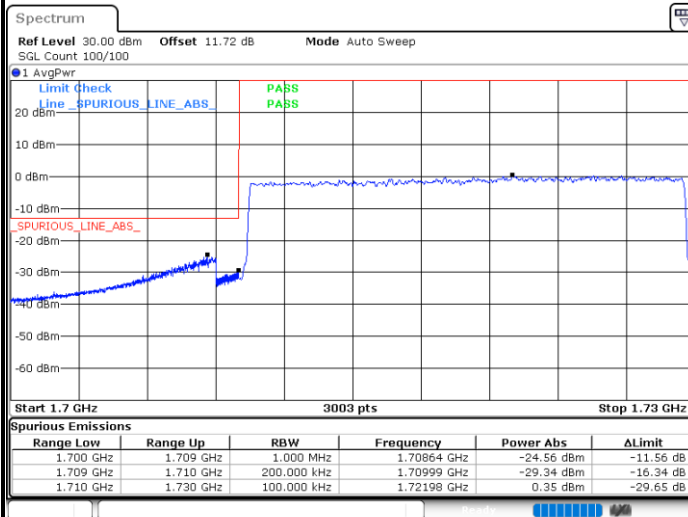
Highest Band Edge / Full RB



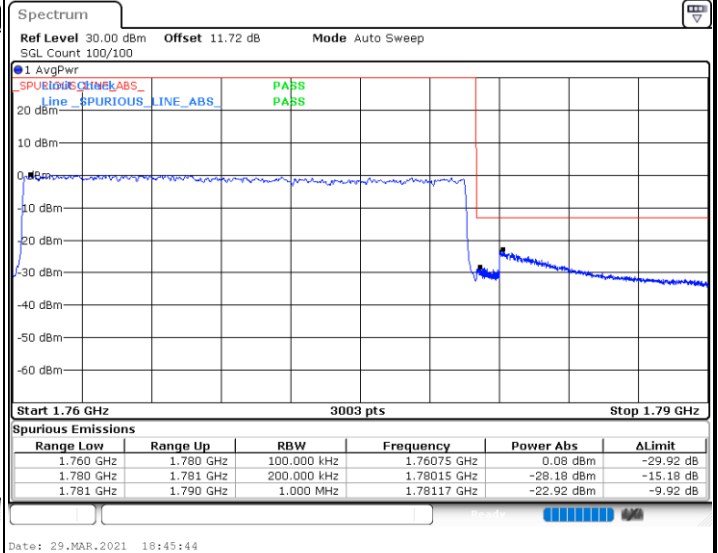


FR1 n66 / 20MHz / CP OFDM / QPSK / Full RB

Lowest Band Edge



Highest Band Edge

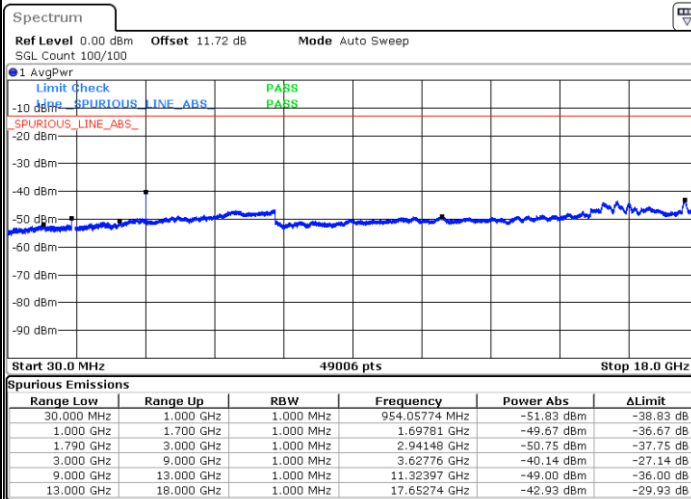




Conducted Spurious Emission

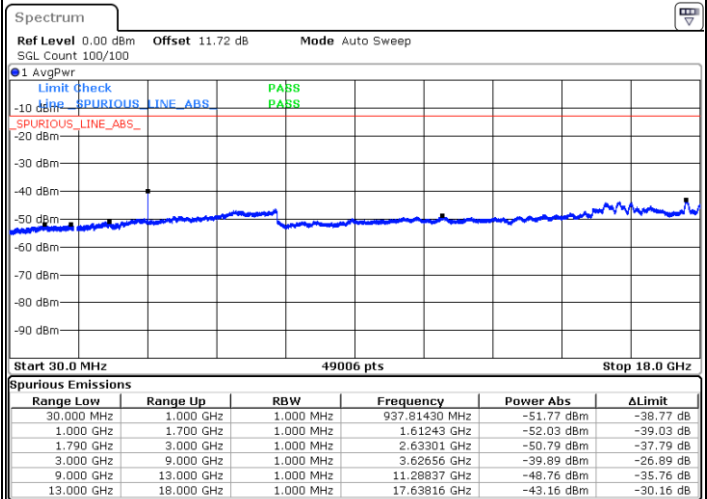
FR1 n66 / 5MHz / DFT-S OFDM / QPSK / 1RB1

Lowest Channel



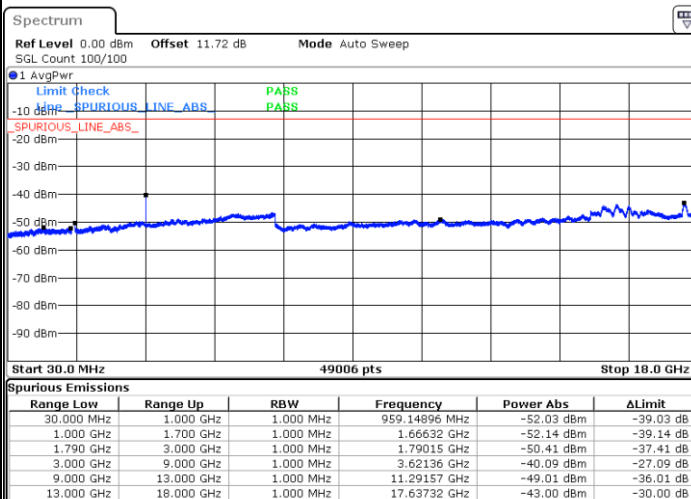
Date: 29.MAR.2021 22:54:46

Middle Channel



Date: 29.MAR.2021 22:53:30

Highest Channel



Date: 29.MAR.2021 22:52:26

**Frequency Stability**

Test Conditions		FR1 n66 (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0031	PASS
40	Normal Voltage	0.0003	
30	Normal Voltage	0.0022	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0014	
0	Normal Voltage	0.0010	
-10	Normal Voltage	0.0034	
-20	Normal Voltage	0.0014	
-30	Normal Voltage	0.0005	
20	Maximum Voltage	0.0186	
20	Normal Voltage	0.0046	
20	Battery End Point	0.0032	

Note:

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.67 V. ; Maximum Voltage =4.26 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

**FR1 n71**

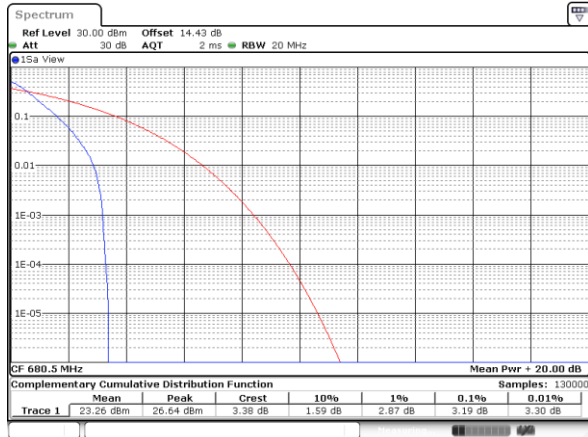
<Main>

Peak-to-Average Ratio

Mode	FR1 n71 / 20MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	3.19	4.26	5.42	5.74	PASS
Mode	FR1 n71 / 20MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Middle CH	6.38				PASS

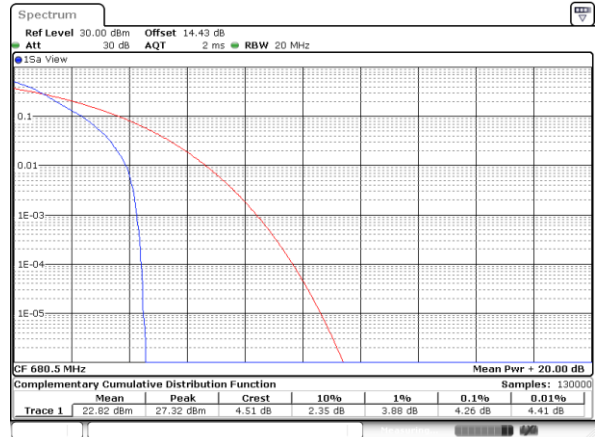
FR1 n71 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



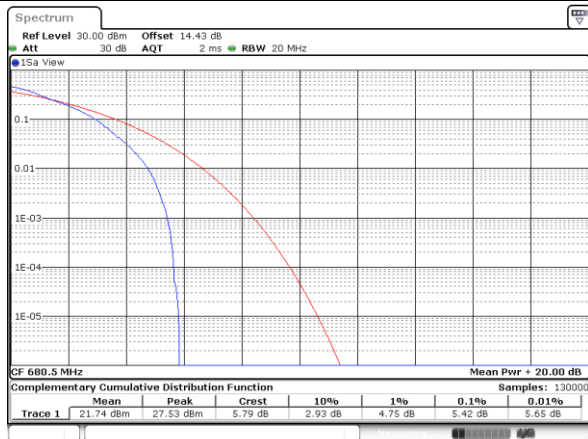
Date: 29.MAR.2021 17:15:47

QPSK



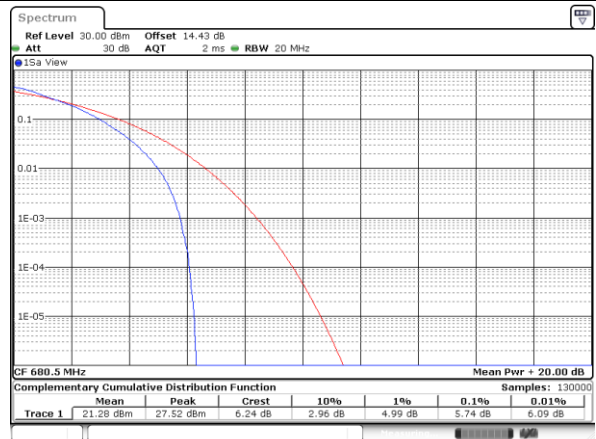
Date: 29.MAR.2021 17:15:38

16QAM



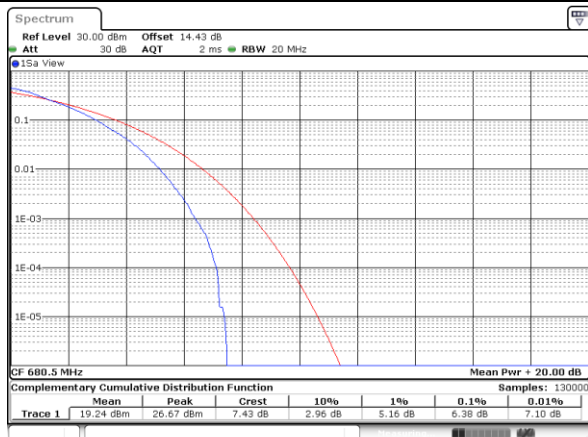
Date: 29.MAR.2021 17:15:28

64QAM



Date: 29.MAR.2021 17:15:16

256QAM



Date: 29.MAR.2021 17:15:03

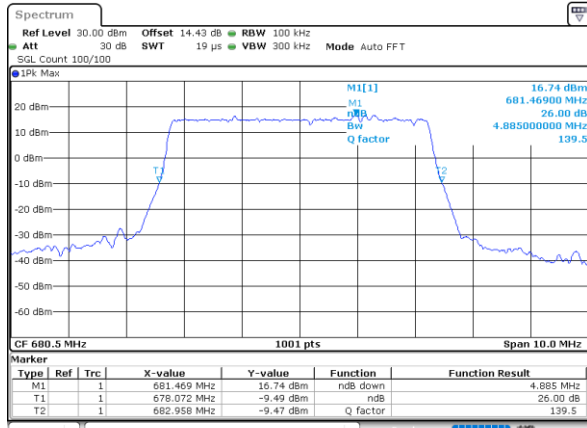
**26dB Bandwidth**

Mode	FR1 n71 : 26dB BW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	PI/2 BPSK		PI/2 BPSK		PI/2 BPSK		PI/2 BPSK	
Middle CH	4.89		9.37		14.24		18.74	

Mode	FR1 n71 : 26dB BW(MHz) / CP OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	4.96	4.93	9.87	9.91	14.87	14.96	19.94	19.82
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	4.95	4.93	9.75	9.79	15.08	14.84	19.90	19.90

FR1 n71 / 5MHz / DFT-S OFDM / Middle Channel / Full RB

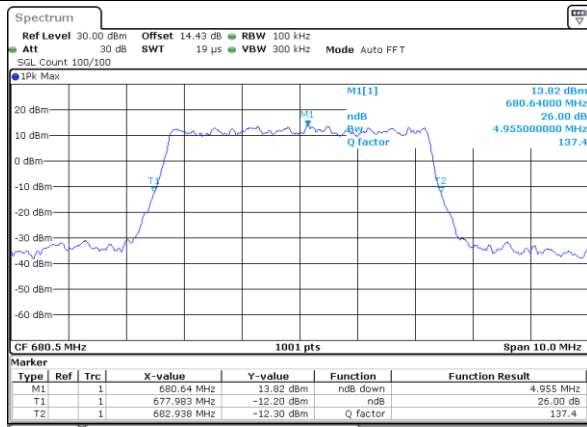
PI/2 BPSK



Date: 29.MAR.2021 16:21:49

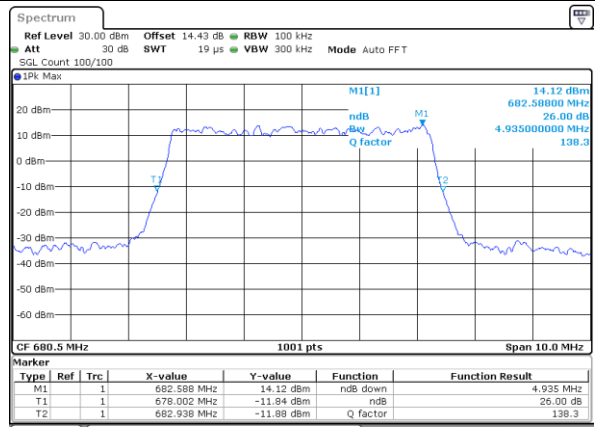
FR1 n71 / 5MHz / CP OFDM / Middle Channel / Full RB

QPSK



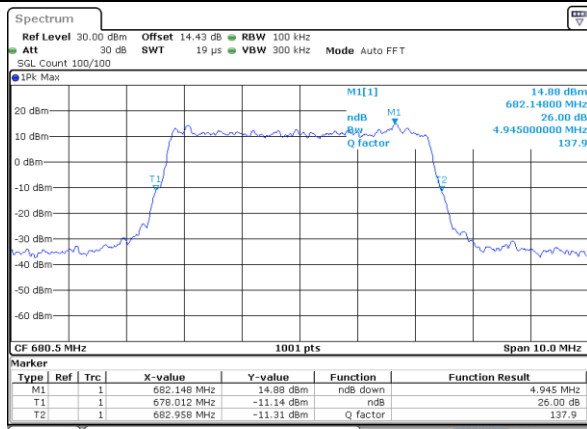
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16QAM



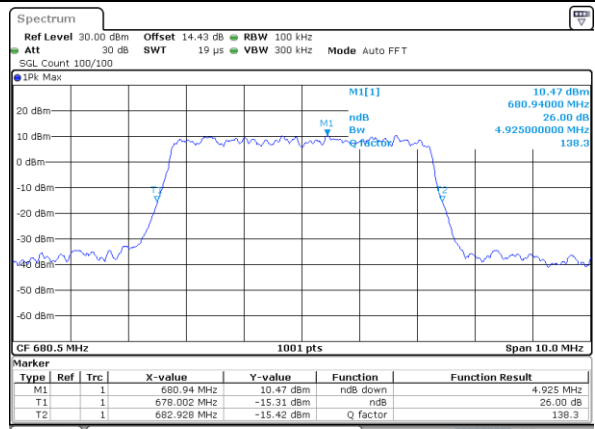
Date: 29.MAR.2021 16:23:22

64QAM



Date: 29.MAR.2021 16:23:36

256QAM

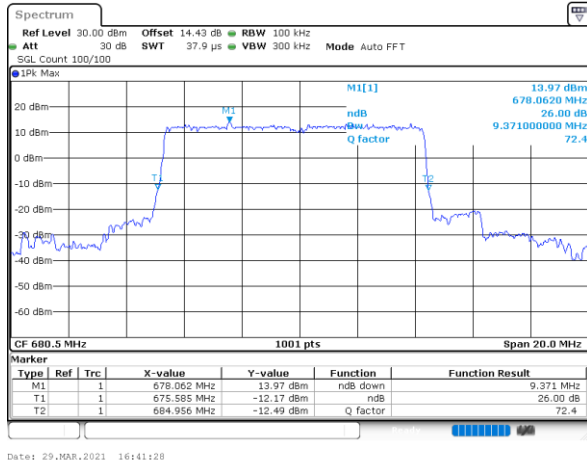


Date: 29.MAR.2021 16:24:01



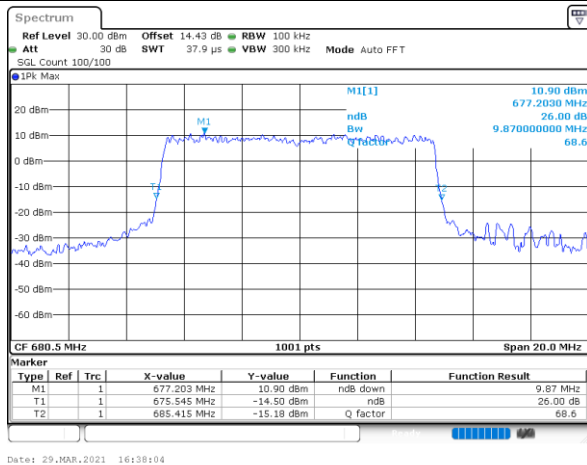
FR1 n71 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

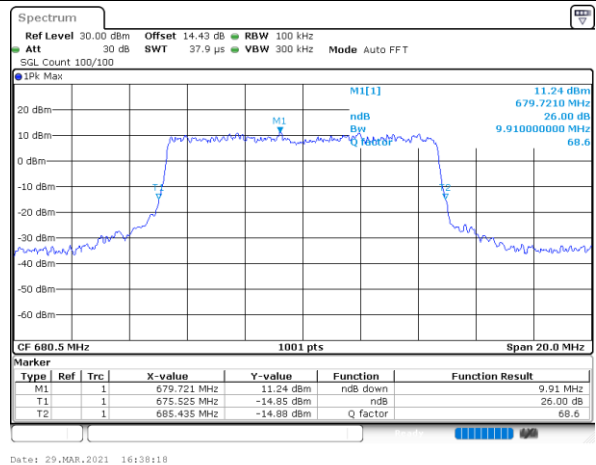


FR1 n71 / 10MHz / CP OFDM / Middle Channel / Full RB

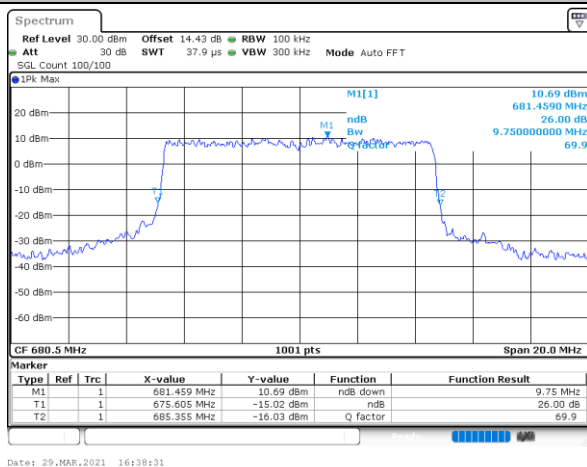
QPSK



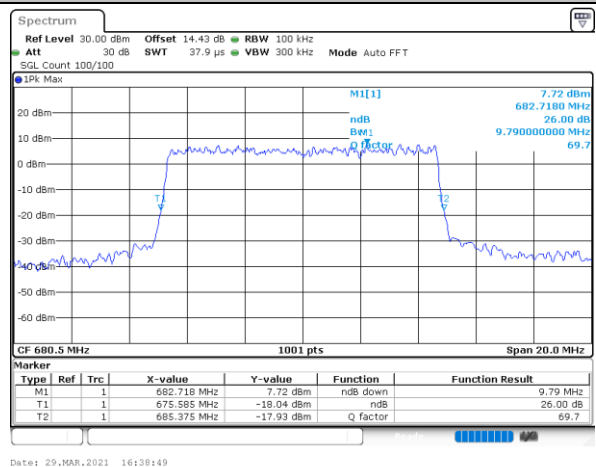
16QAM



64QAM



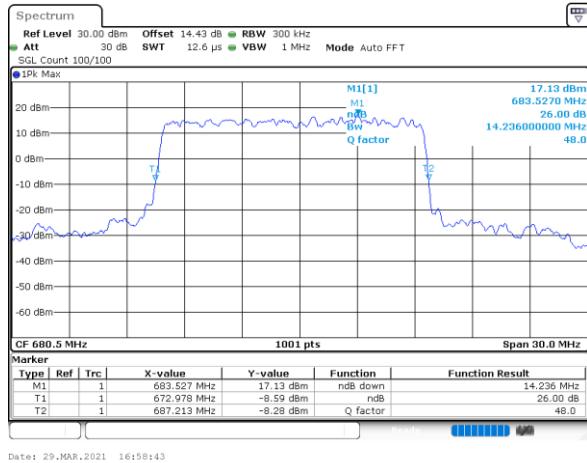
256QAM





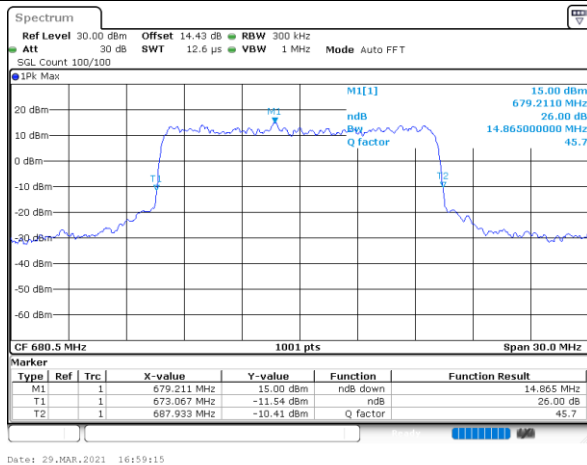
FR1 n71 / 15MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

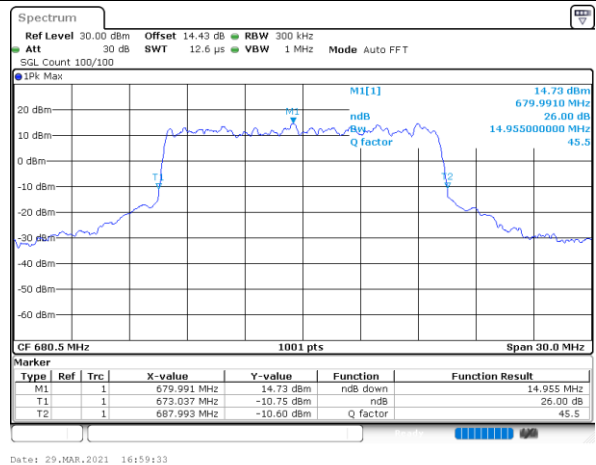


FR1 n71 / 15MHz / CP OFDM / Middle Channel / Full RB

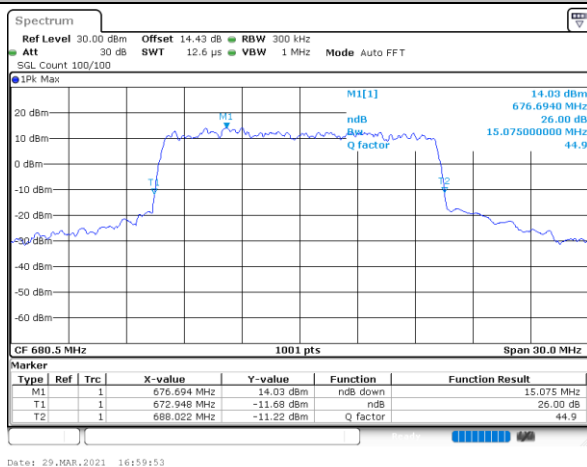
QPSK



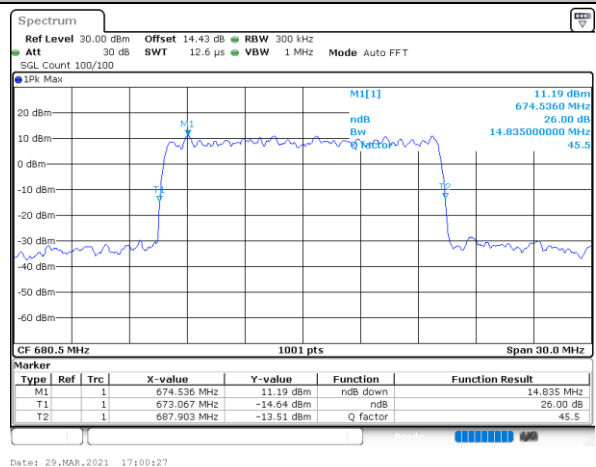
16QAM



64QAM

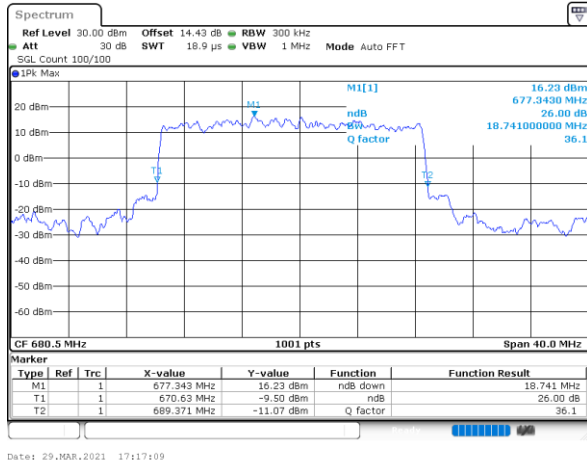


256QAM



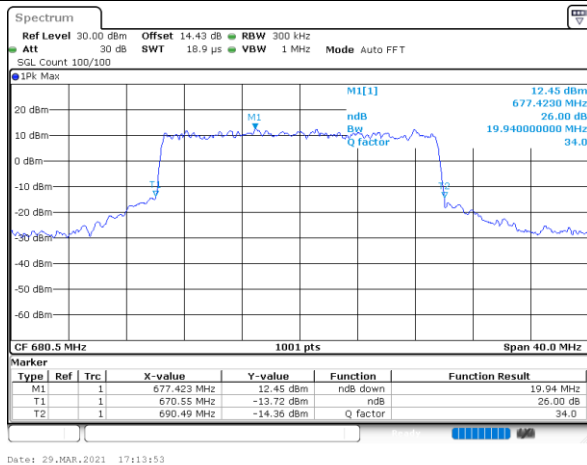
FR1 n71 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

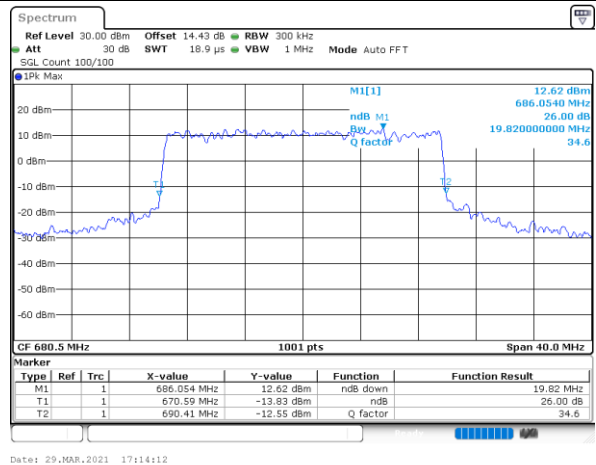


FR1 n71 / 20MHz / CP OFDM / Middle Channel / Full RB

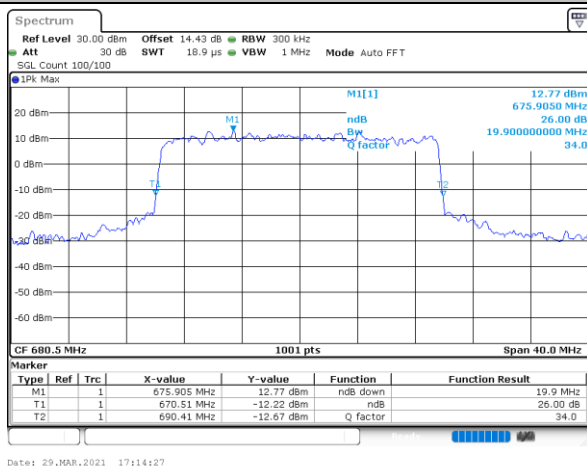
QPSK



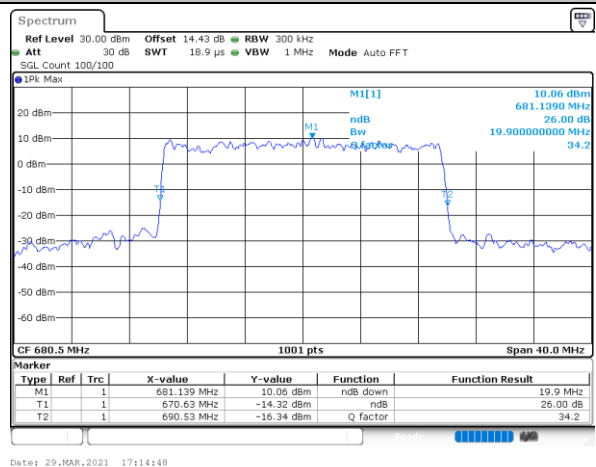
16QAM



64QAM



256QAM



**Occupied Bandwidth**

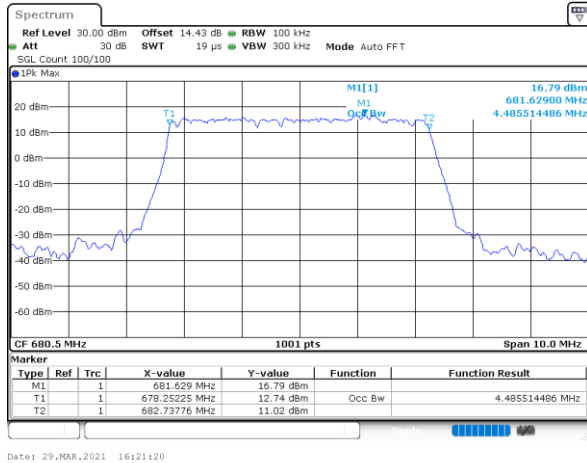
Mode	FR1 n71 : 99%OBW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	PI/2 BPSK		PI/2 BPSK		PI/2 BPSK		PI/2 BPSK	
Middle CH	4.49		8.89		13.46		17.90	

Mode	FR1 n71 : 99%OBW (MHz) / CP OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	4.47	4.51	9.27	9.25	14.15	14.18	18.86	18.98
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	4.48	4.49	9.27	9.25	14.12	14.15	18.94	18.90



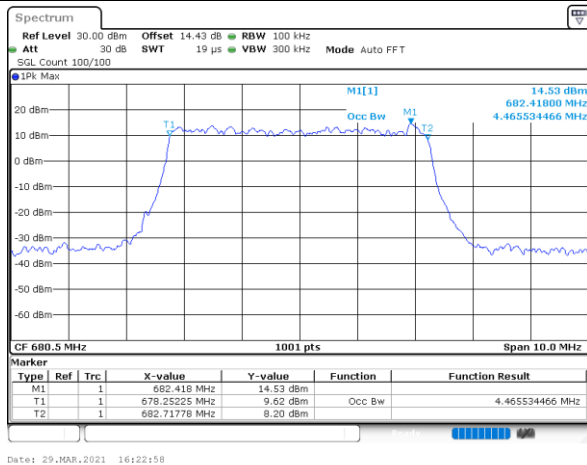
FR1 n71 / 5MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

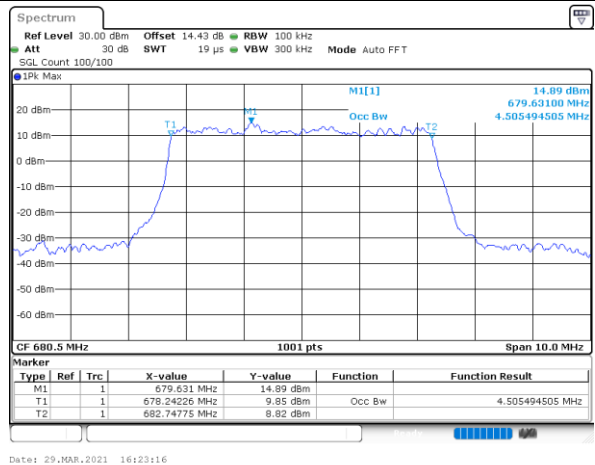


FR1 n71 / 5MHz / CP OFDM / Middle Channel / Full RB

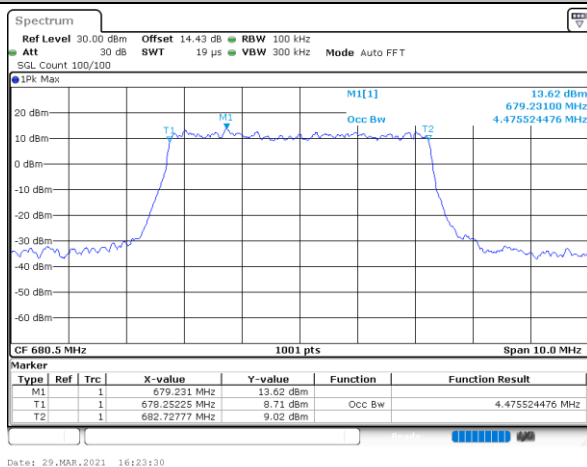
QPSK



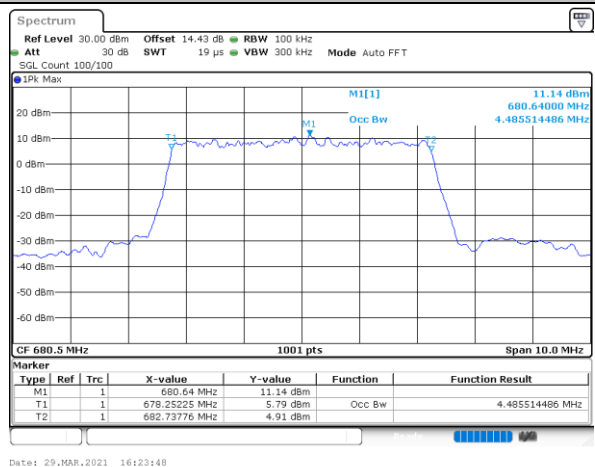
16QAM



64QAM



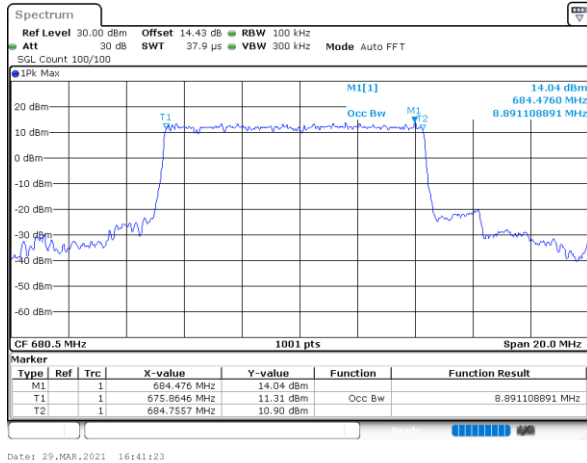
256QAM





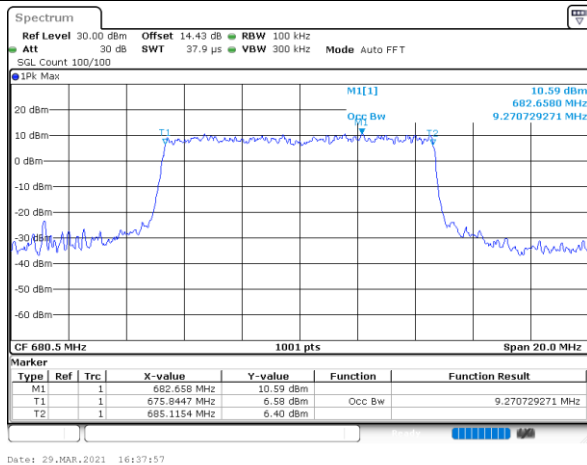
FR1 n71 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

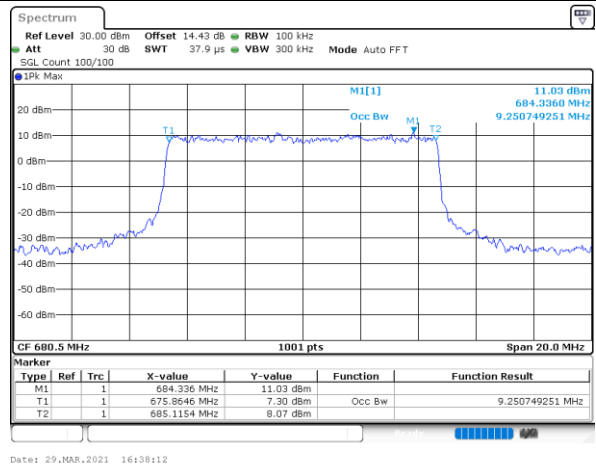


FR1 n71 / 10MHz / CP OFDM / Middle Channel / Full RB

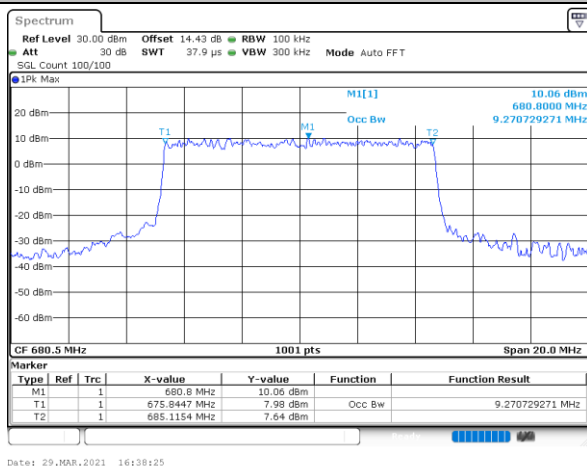
QPSK



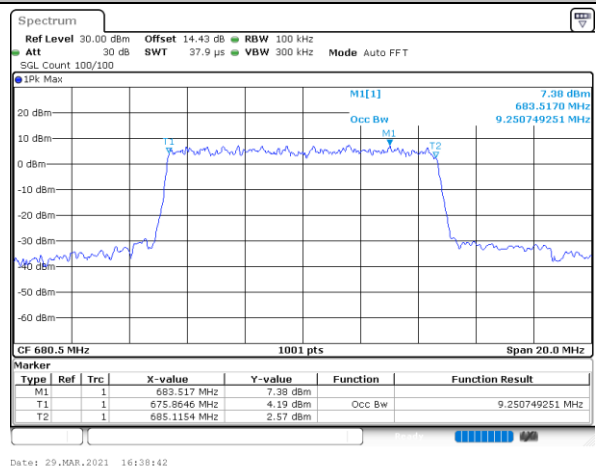
16QAM



64QAM



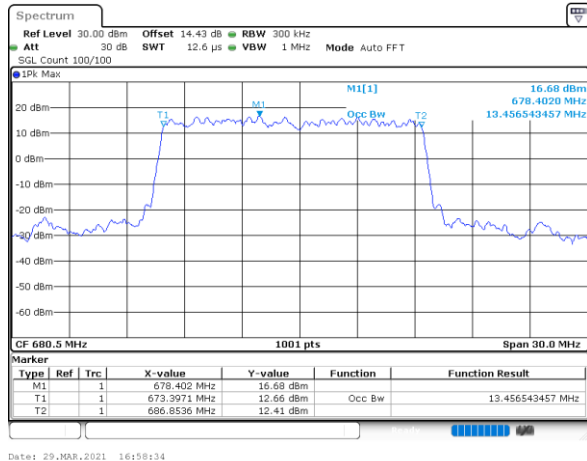
256QAM





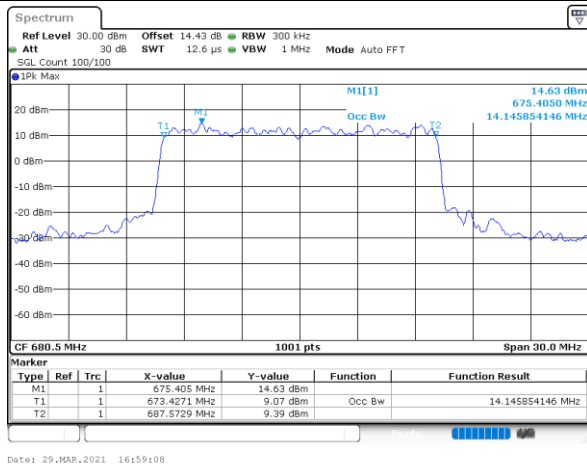
FR1 n71 / 15MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

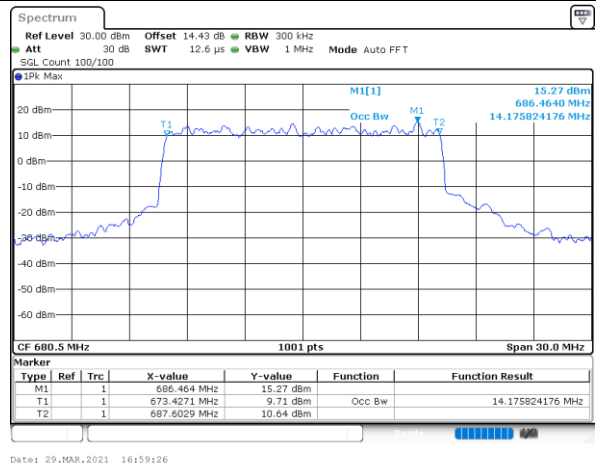


FR1 n71 / 15MHz / CP OFDM / Middle Channel / Full RB

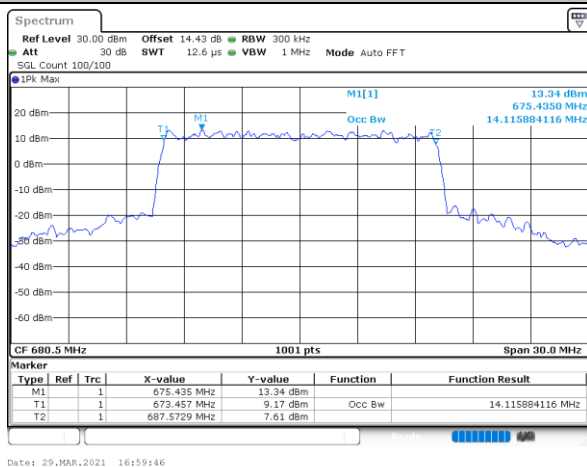
QPSK



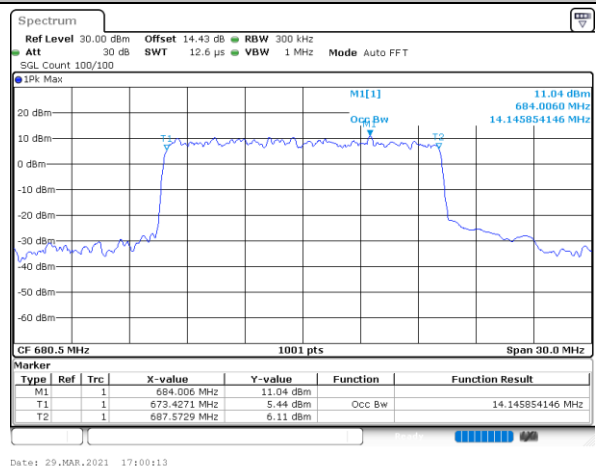
16QAM



64QAM

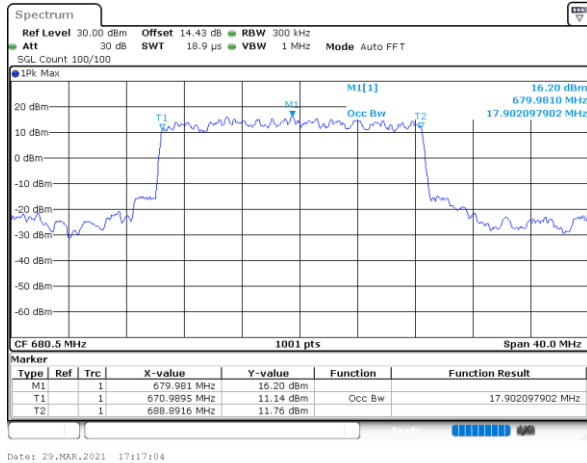


256QAM



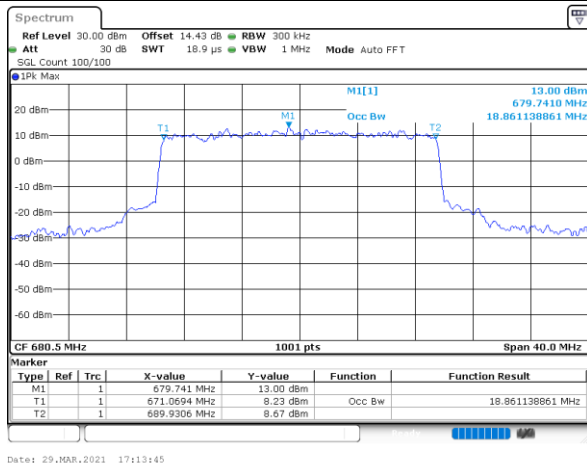
FR1 n71 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

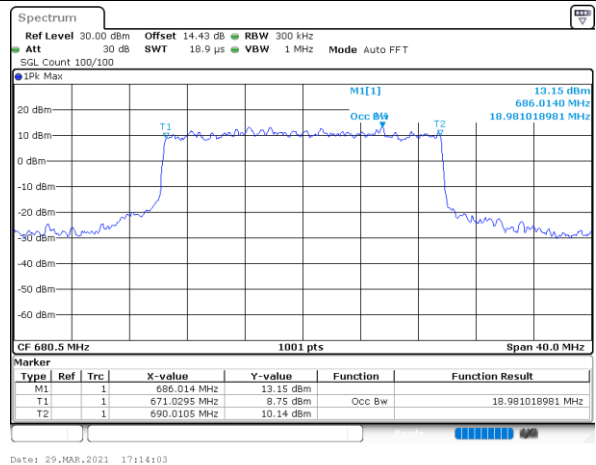


FR1 n71 / 20MHz / CP OFDM / Middle Channel / Full RB

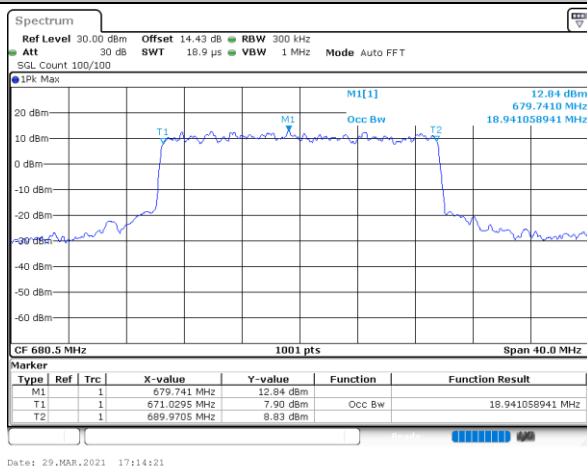
QPSK



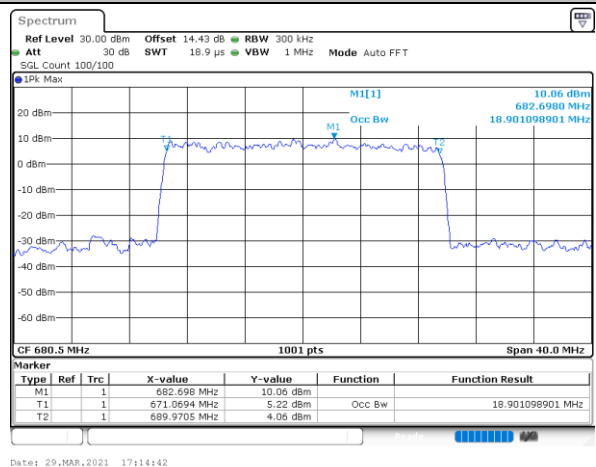
16QAM

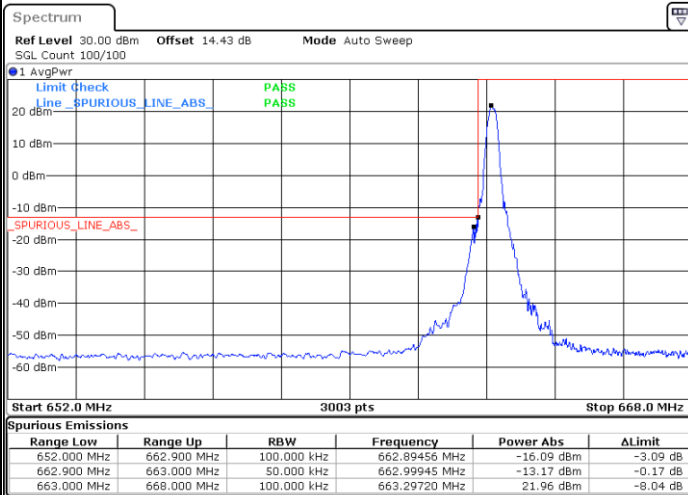


64QAM

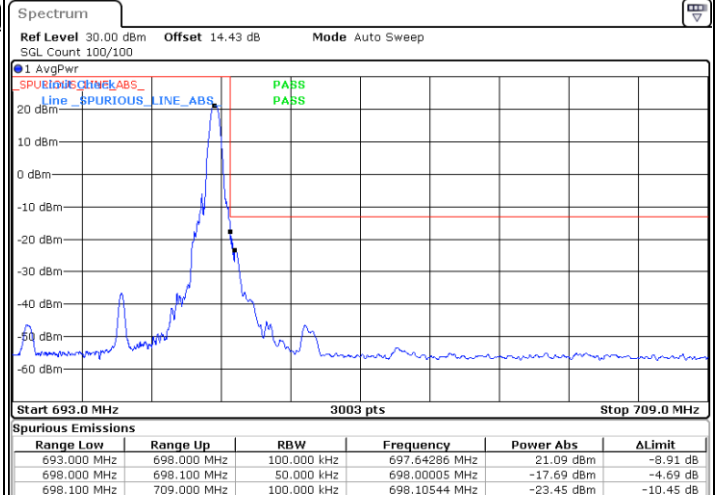


256QAM

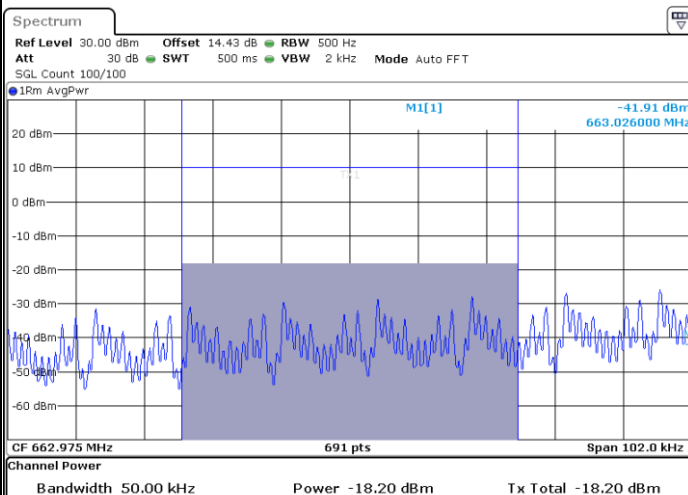


**Conducted Band Edge****FR1 n71 / 5MHz / DFT-S OFDM / PI/2 BPSK****Lowest Band Edge / 1RB0****Highest Band Edge / 1RBmax**

Date: 29.MAR.2021 16:15:07



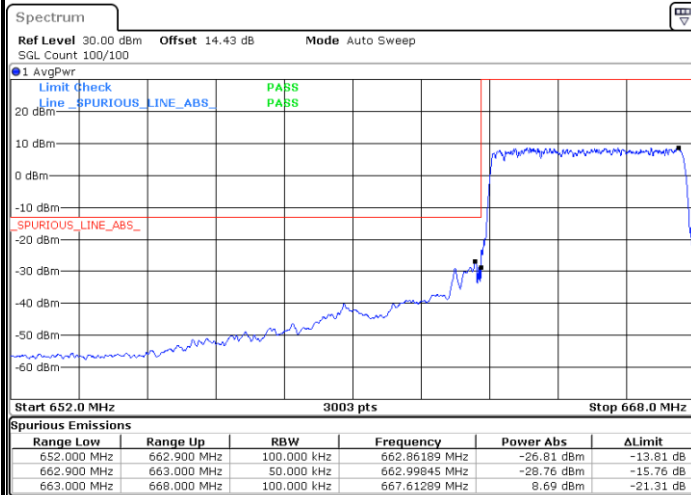
Date: 29.MAR.2021 16:30:42

Channel Power -18.2dBm < -13dBm (Pass)

Date: 30.MAR.2021 12:39:11

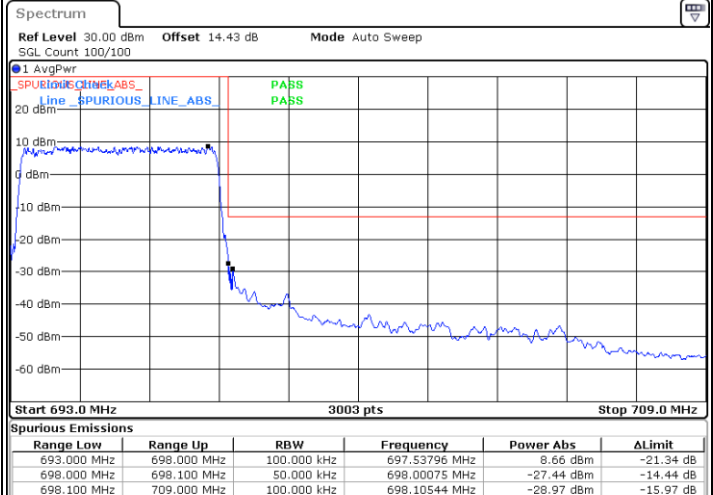


Lowest Band Edge / Full RB



Date: 29.MAR.2021 16:18:19

Highest Band Edge / Full RB



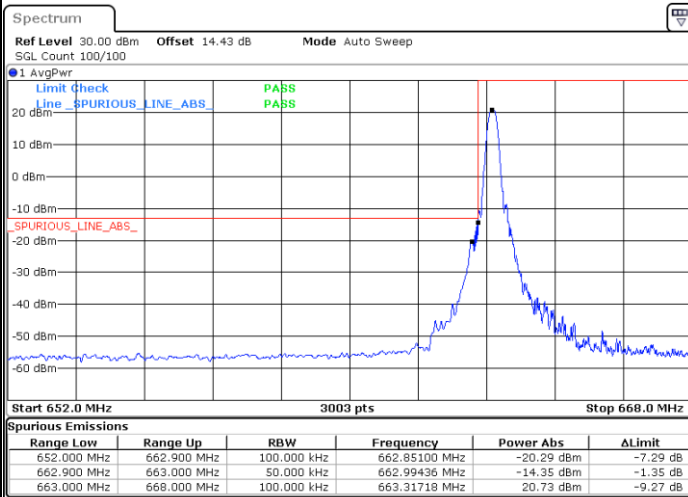
Date: 29.MAR.2021 16:27:29



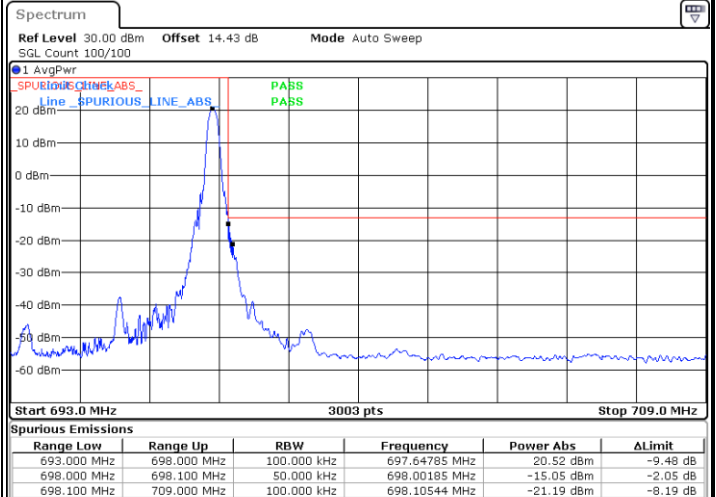
FR1 n71 / 5MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



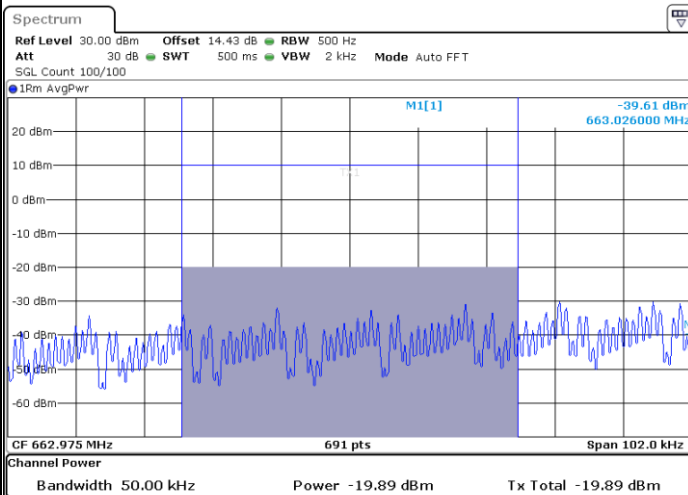
Date: 29.MAR.2021 16:15:27



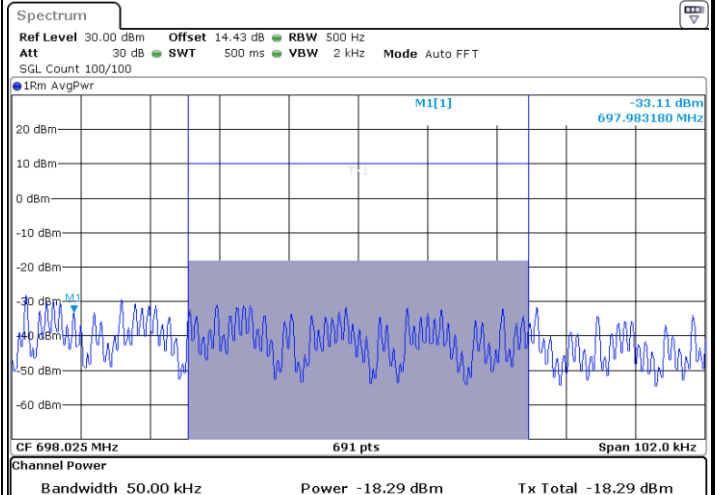
Date: 29.MAR.2021 16:30:20

Channel Power -19.89dBm < -13dBm (Pass)

Channel Power -18.29dBm < -13dBm (Pass)



Date: 30.MAR.2021 12:42:07

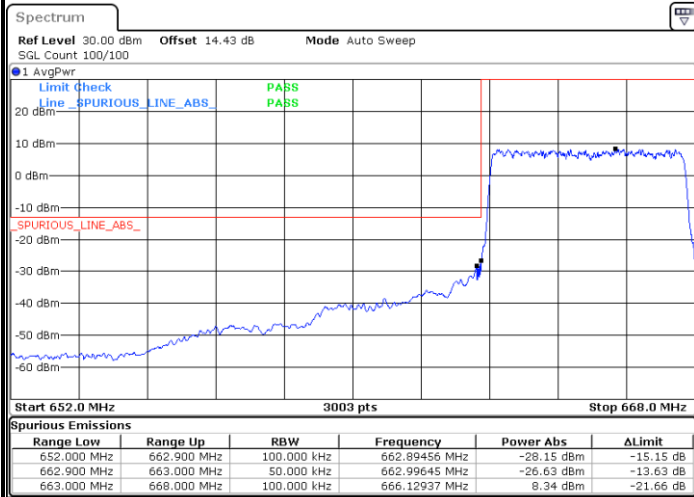


Date: 30.MAR.2021 12:46:36

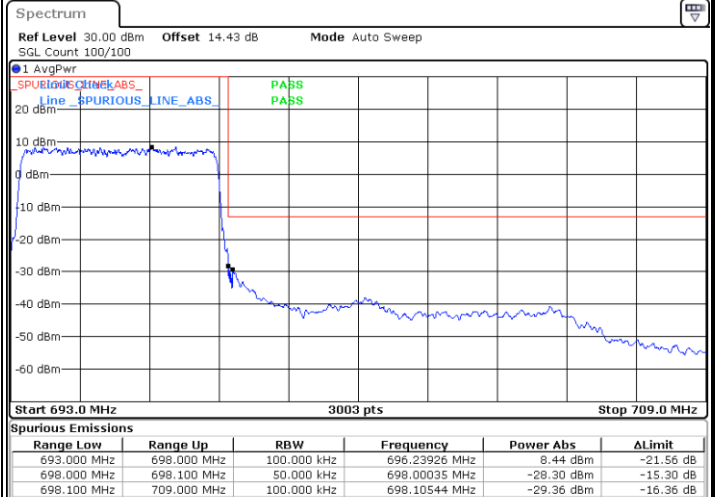


Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 29.MAR.2021 16:17:58



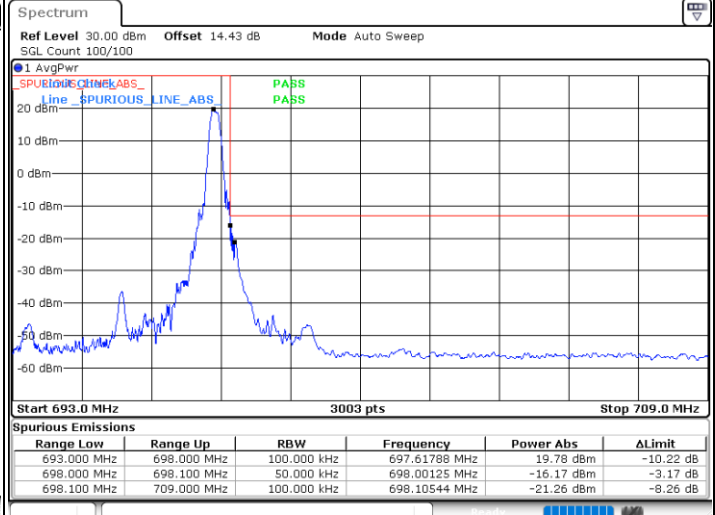
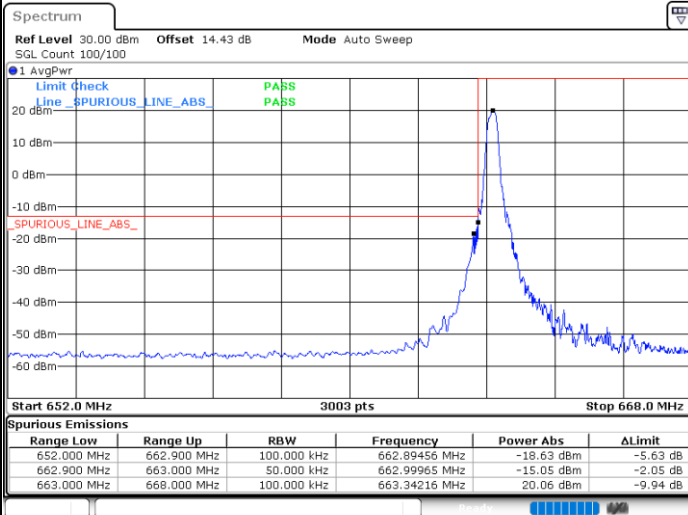
Date: 29.MAR.2021 16:26:59



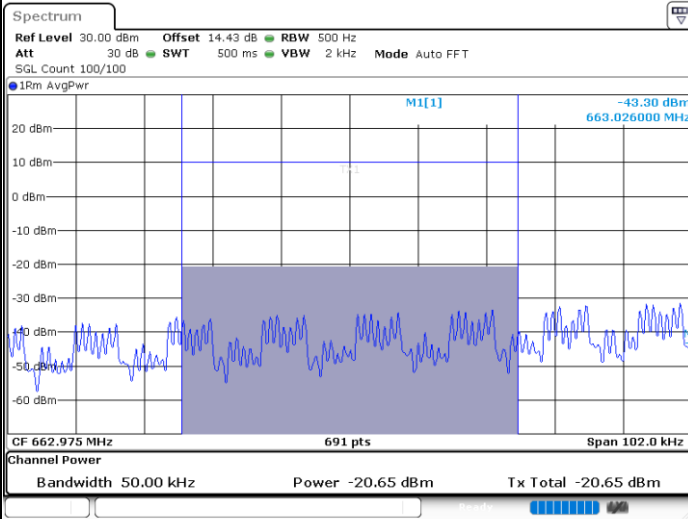
FR1 n71 / 5MHz / DFT-S OFDM / 16QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



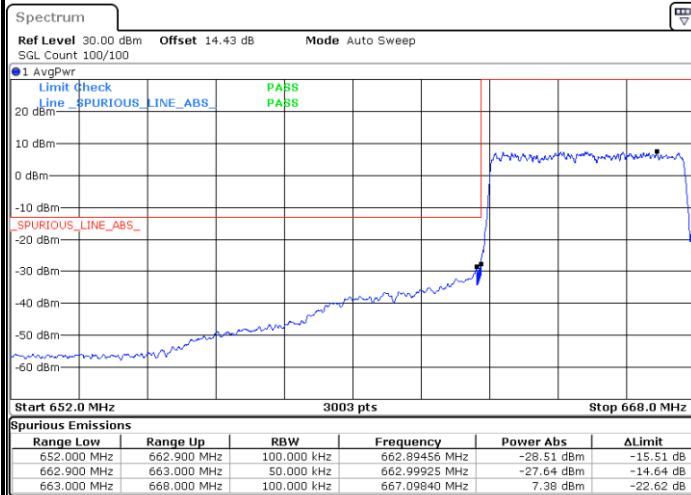
Channel Power -20.65dBm < -13dBm (Pass)



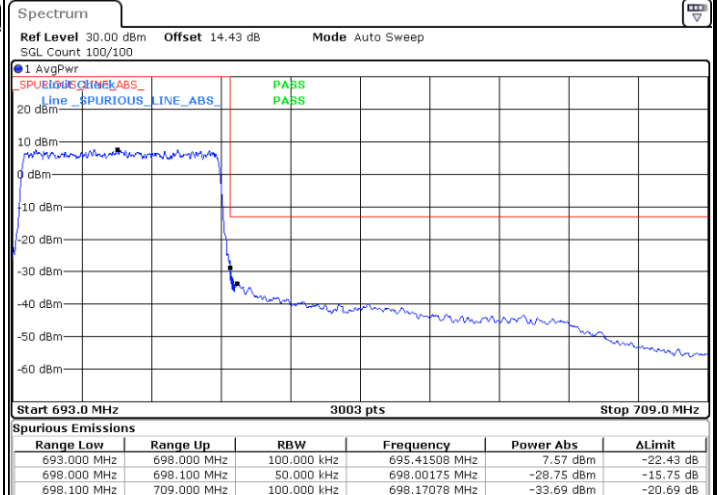


Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 29.MAR.2021 16:17:37



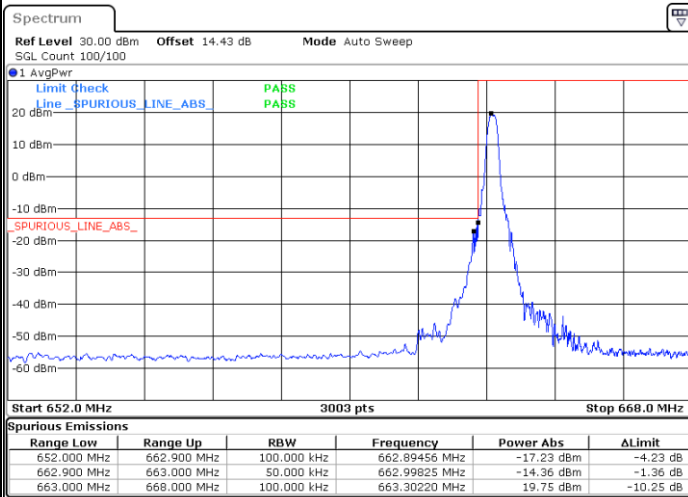
Date: 29.MAR.2021 16:27:54



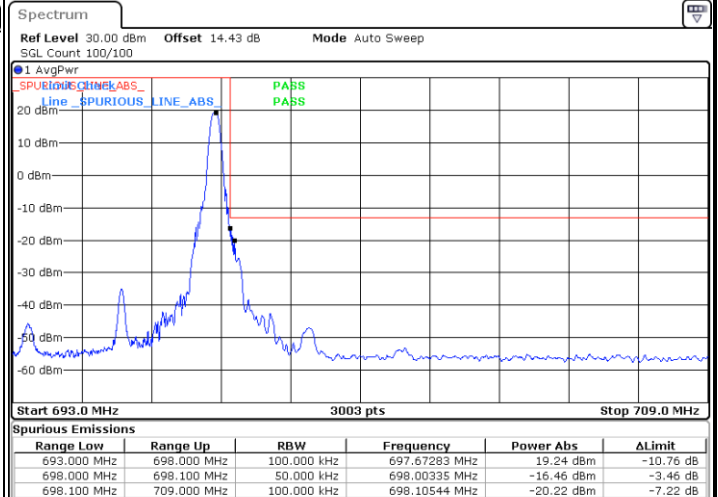
FR1 n71 / 5MHz / DFT-S OFDM / 64QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

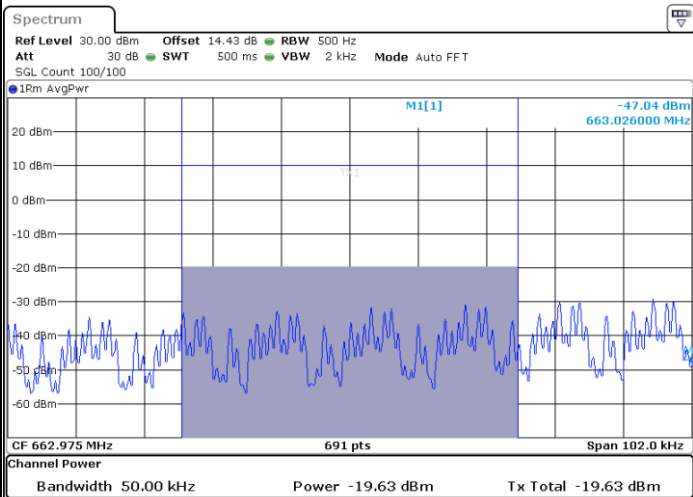


Date: 29.MAR.2021 16:16:10



Date: 29.MAR.2021 16:29:42

Channel Power -19.63dBm < -13dBm (Pass)

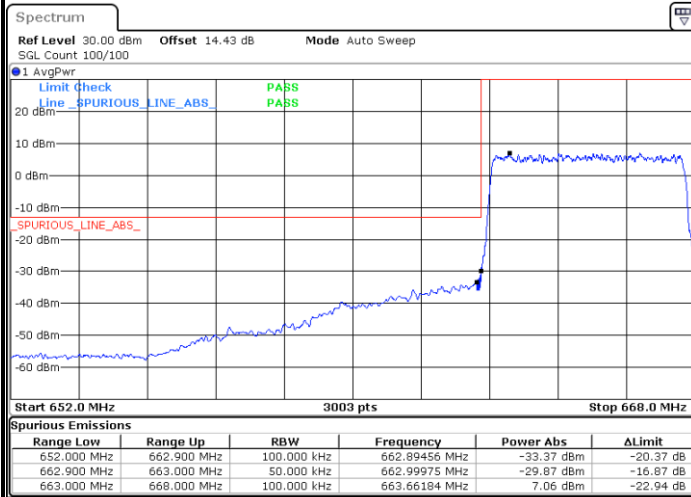


Date: 30.MAR.2021 12:44:24

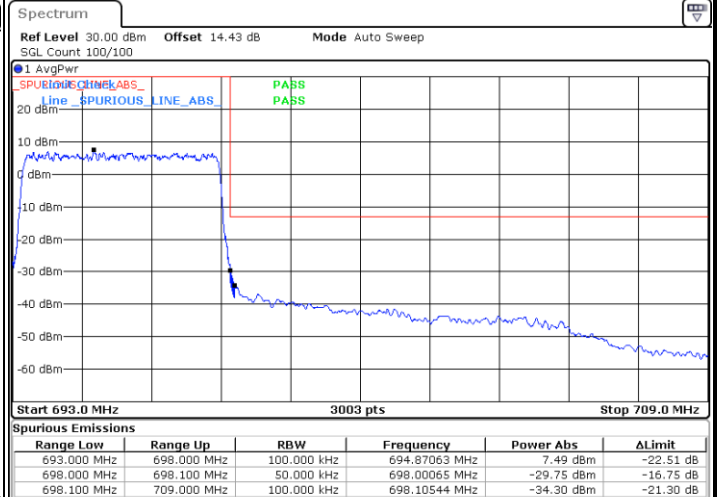


Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 29.MAR.2021 16:17:18



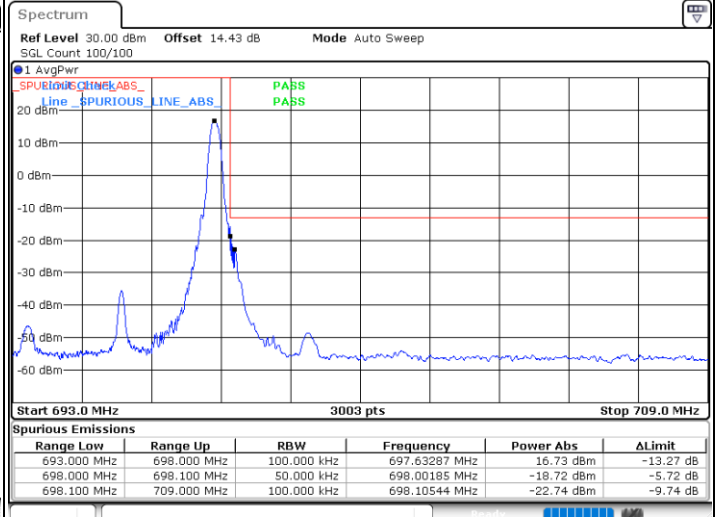
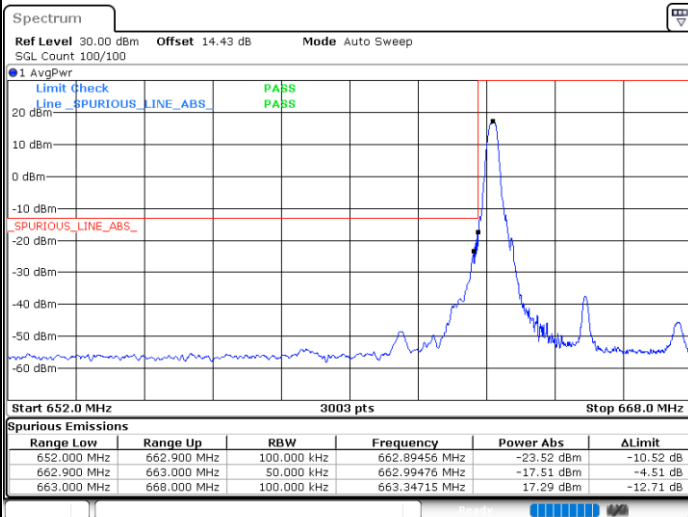
Date: 29.MAR.2021 16:28:14



FR1 n71 / 5MHz / DFT-S OFDM / 256QAM

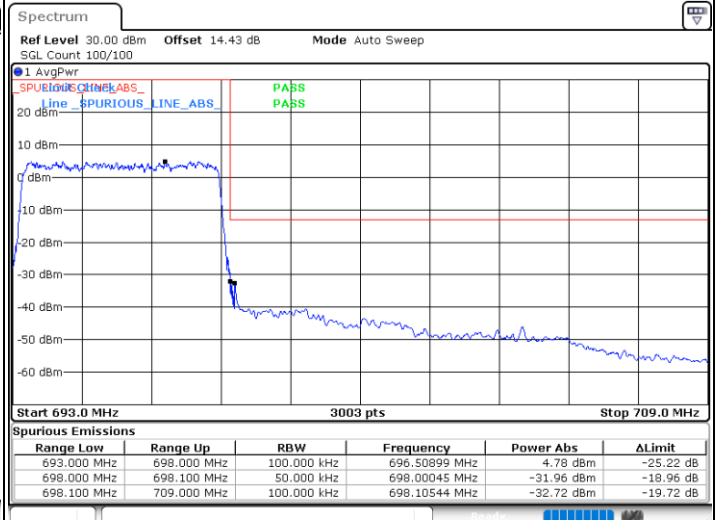
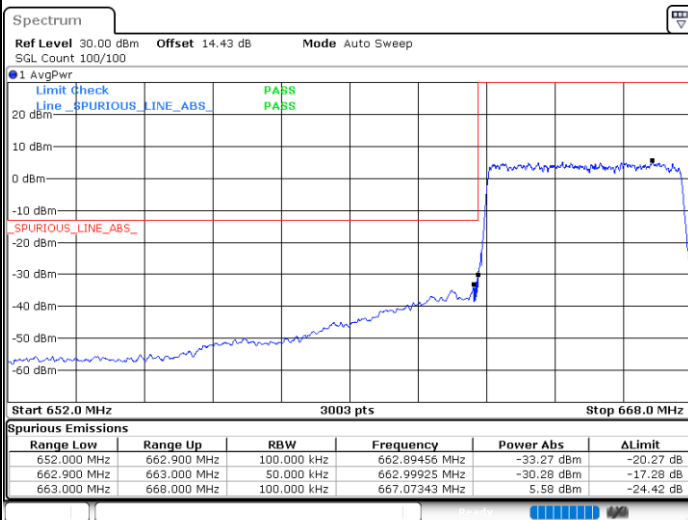
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

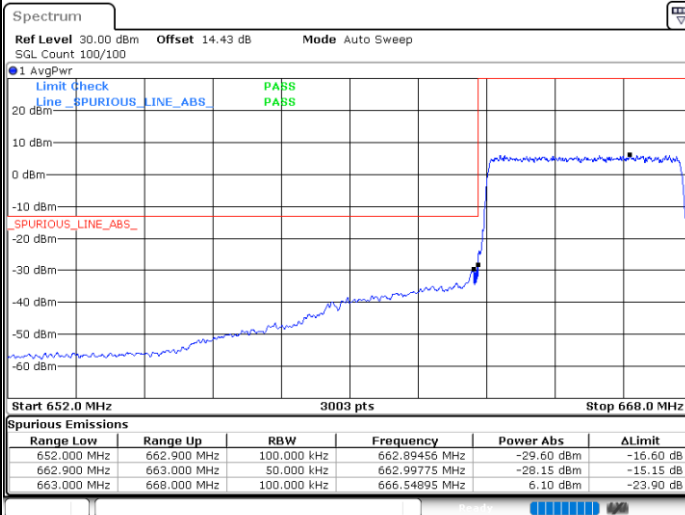




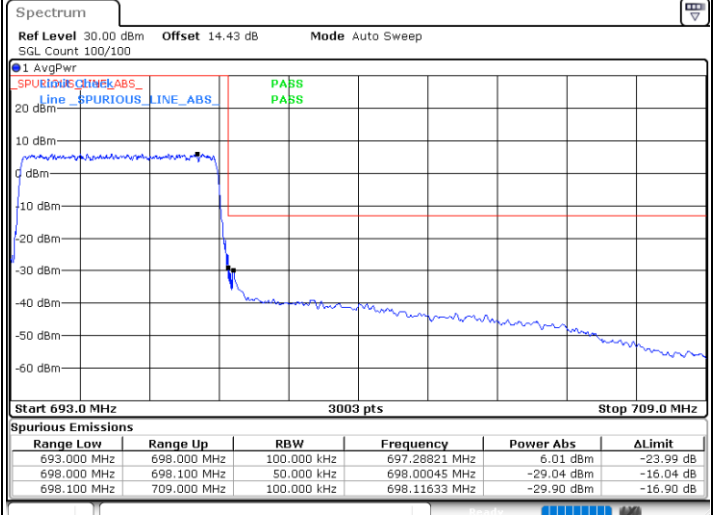
FR1 n71 / 5MHz / CP OFDM / QPSK / Full RB

Lowest Band Edge

Highest Band Edge



Date: 29.MAR.2021 16:18:49



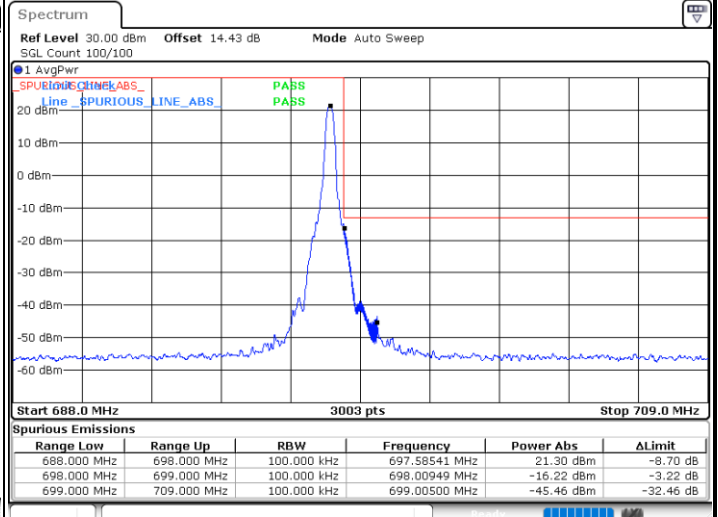
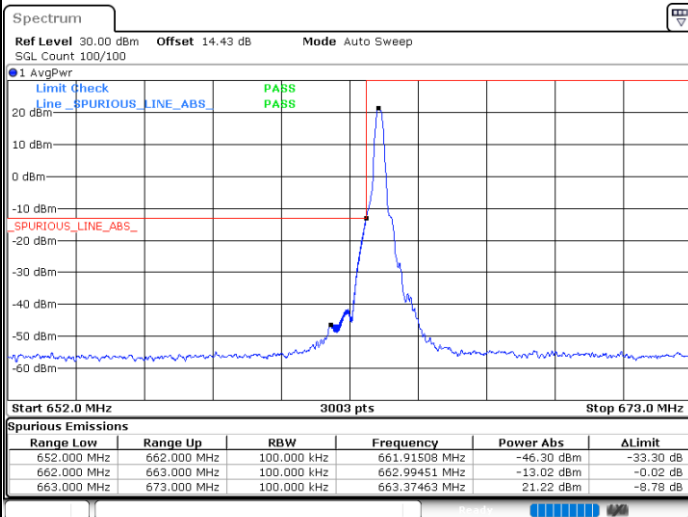
Date: 29.MAR.2021 16:26:19



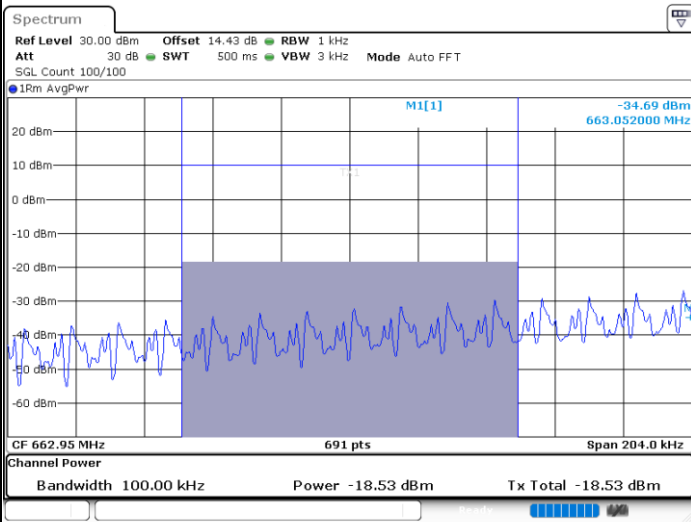
FR1 n71 / 10MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



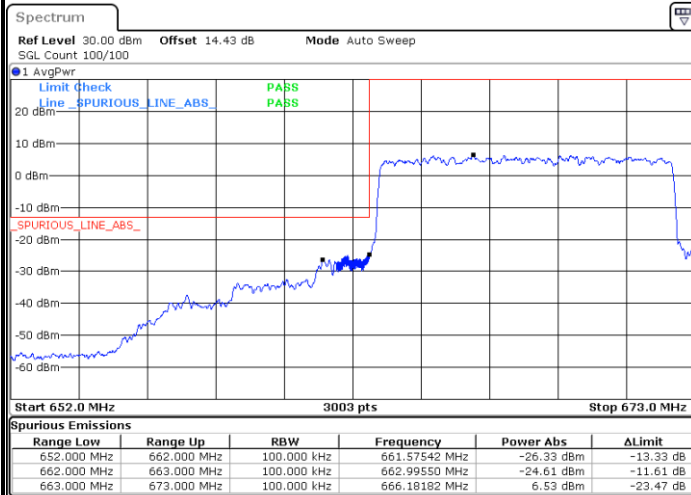
Channel Power -18.53dBm < -13dBm (Pass)



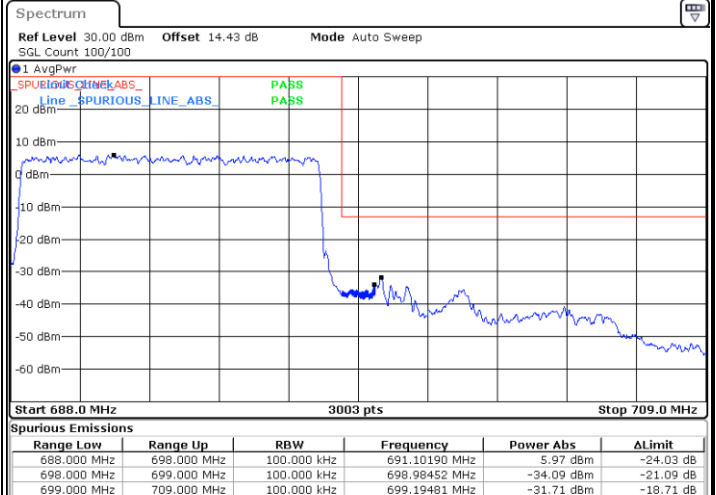


Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 29.MAR.2021 16:32:26



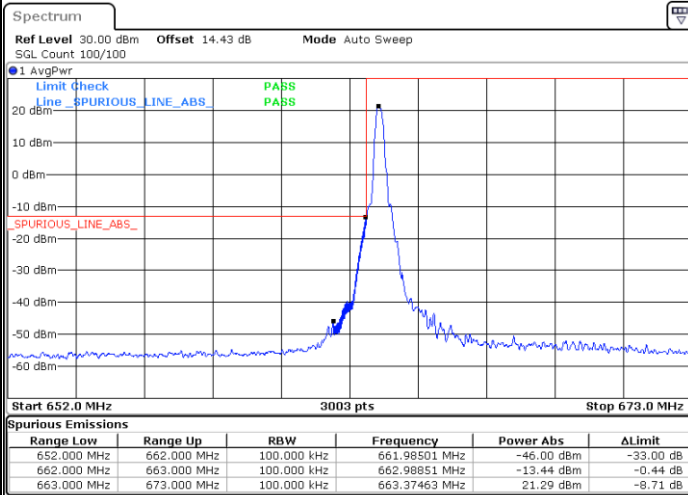
Date: 29.MAR.2021 16:42:20



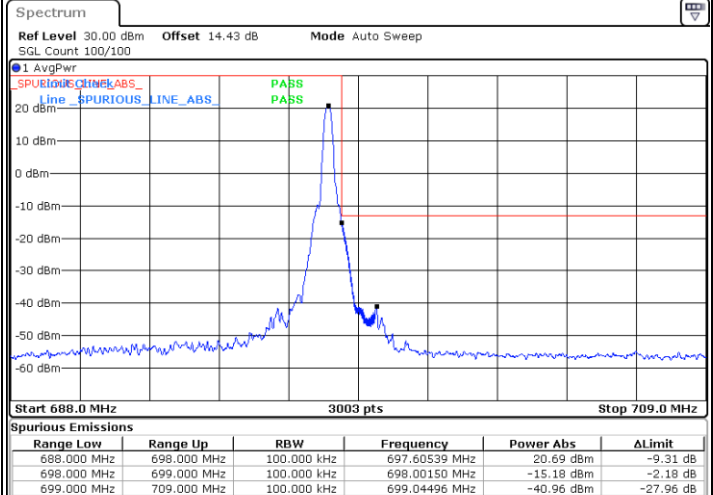
FR1 n71 / 10MHz / DFT-s-OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



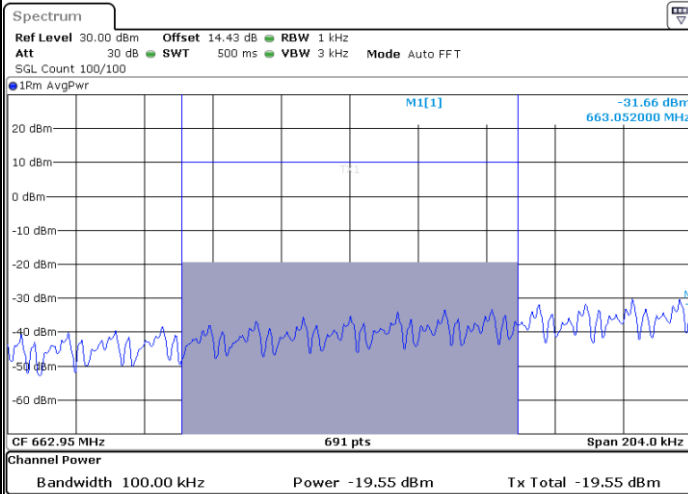
Date: 29.MAR.2021 16:35:57



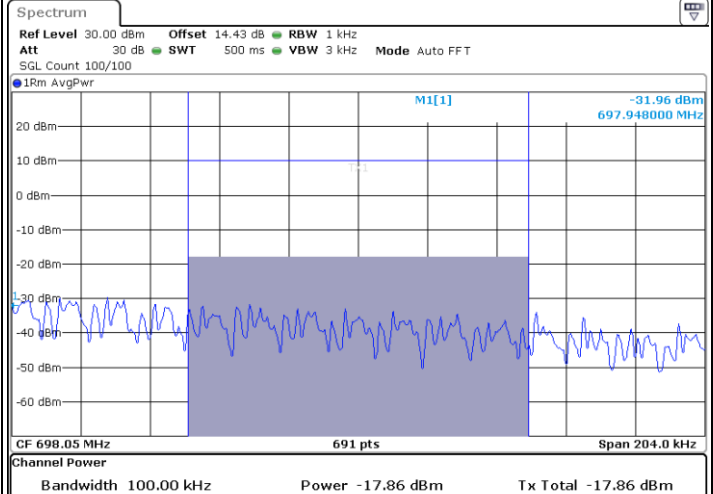
Date: 29.MAR.2021 16:45:37

Channel Power -19.55dBm < -13dBm (Pass)

Channel Power -17.86dBm < -13dBm (Pass)



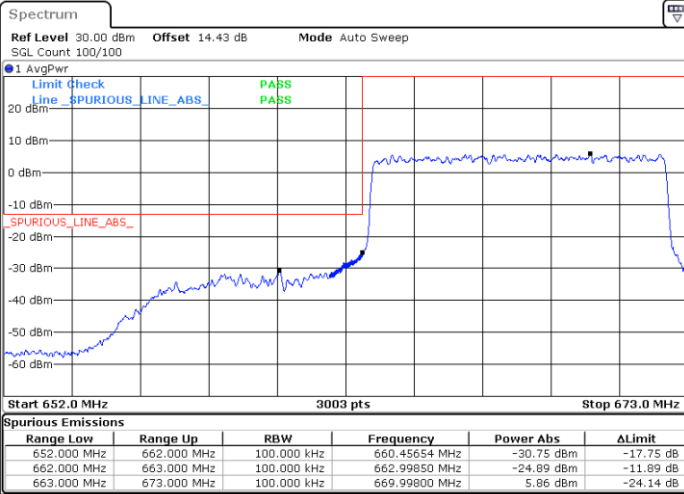
Date: 30.MAR.2021 12:30:18



Date: 30.MAR.2021 12:36:28

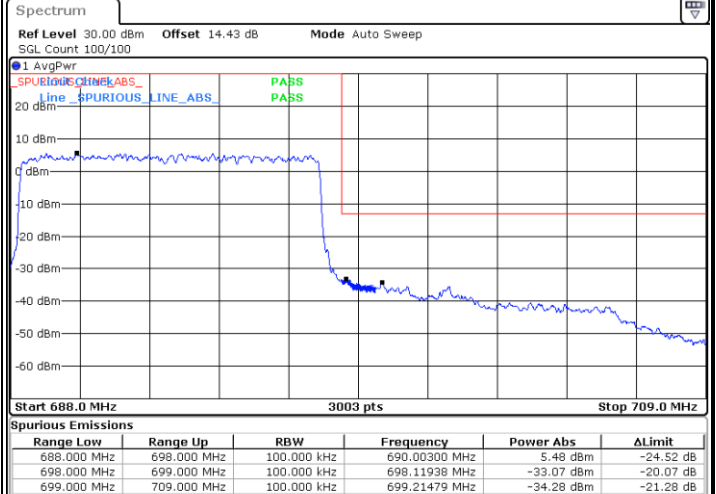


Lowest Band Edge / Full RB



Date: 29.MAR.2021 16:32:02

Highest Band Edge / Full RB



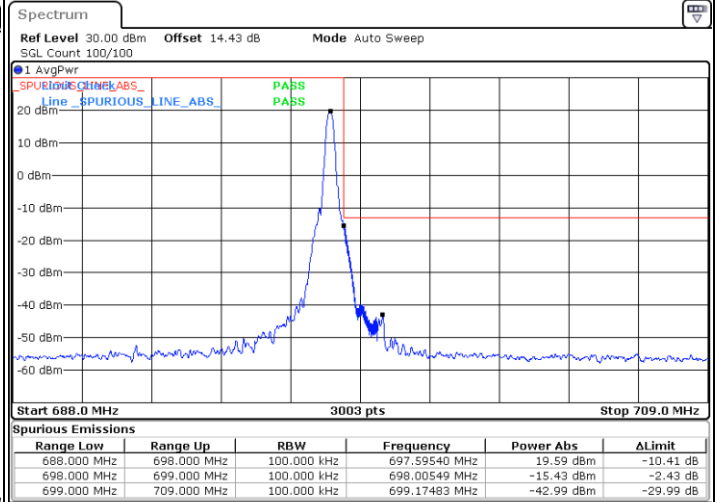
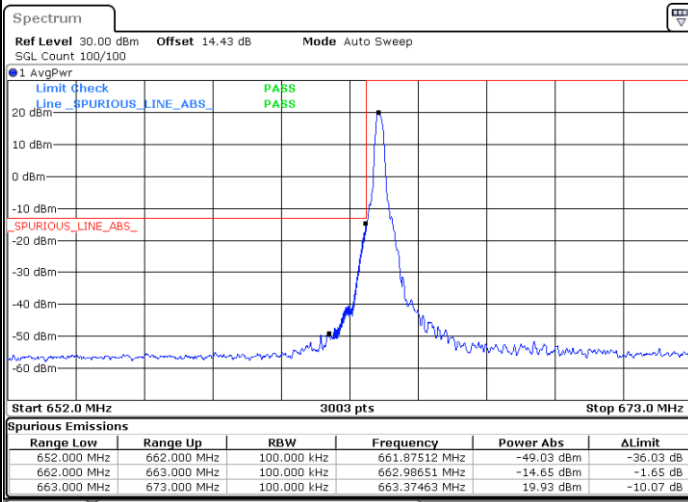
Date: 29.MAR.2021 16:42:44



FR1 n71 / 10MHz / DFT-s-OFDM / 16QAM

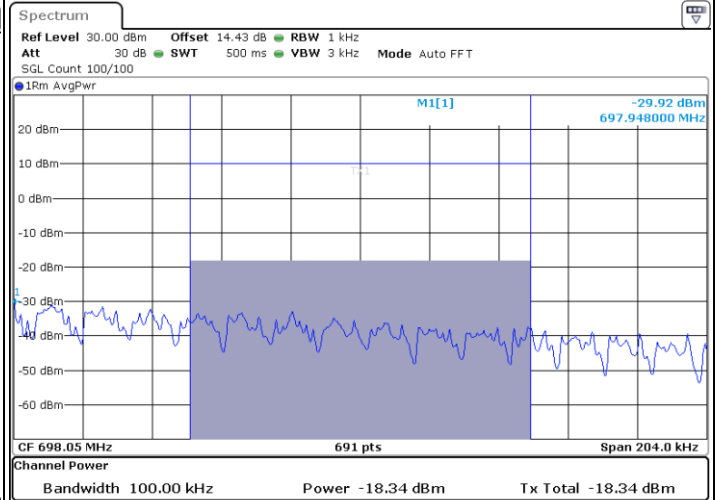
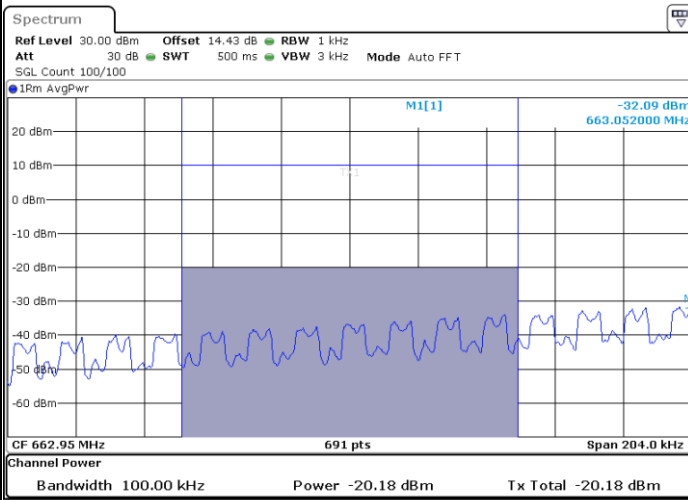
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Channel Power -20.18dBm < -13dBm (Pass)

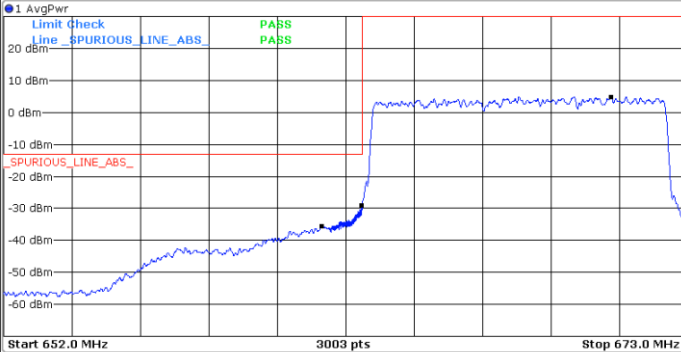
Channel Power -18.34dBm < -13dBm (Pass)





Lowest Band Edge / Full RB

Spectrum

Ref Level 30.00 dBm Offset 14.43 dB Mode Auto Sweep
SQL Count 100/100

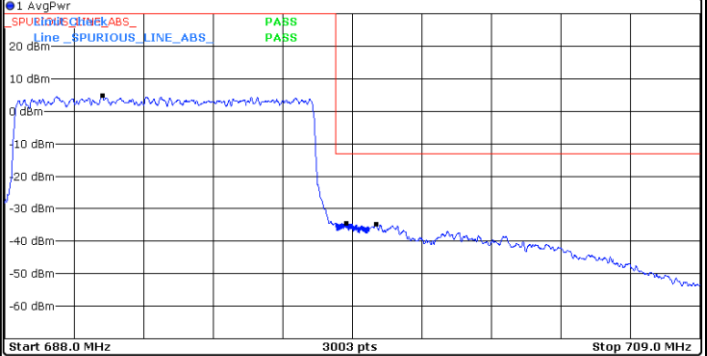
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
652.000 MHz	662.000 MHz	100.000 kHz	661.75524 MHz	-35.62 dBm	-22.62 dB
662.000 MHz	663.000 MHz	100.000 kHz	662.98951 MHz	-29.21 dBm	-16.21 dB
663.000 MHz	673.000 MHz	100.000 kHz	670.63736 MHz	4.79 dBm	-25.21 dB

Date: 29.MAR.2021 16:32:55

Highest Band Edge / Full RB

Spectrum

Ref Level 30.00 dBm Offset 14.43 dB Mode Auto Sweep
SQL Count 100/100

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
688.000 MHz	698.000 MHz	100.000 kHz	690.95205 MHz	4.68 dBm	-25.32 dB
698.000 MHz	699.000 MHz	100.000 kHz	698.30519 MHz	-34.42 dBm	-21.42 dB
699.000 MHz	709.000 MHz	100.000 kHz	699.20480 MHz	-34.81 dBm	-21.81 dB

Date: 29.MAR.2021 16:43:06