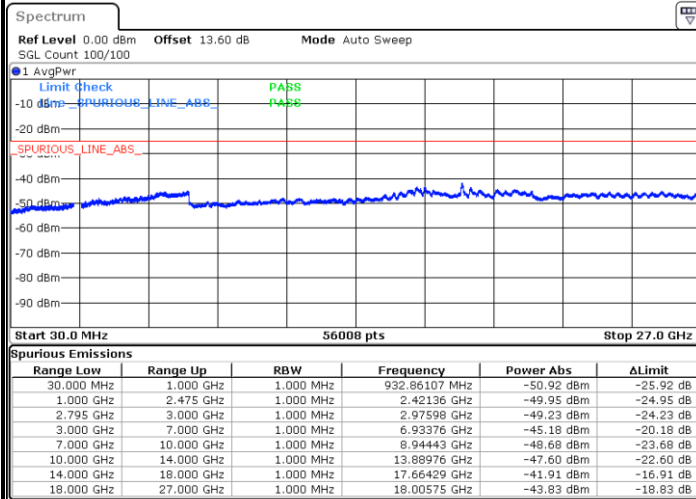




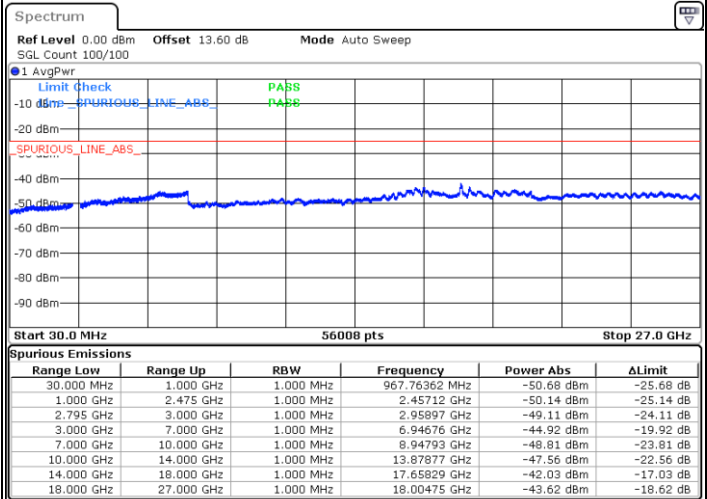
FR1 n41 / 90MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1



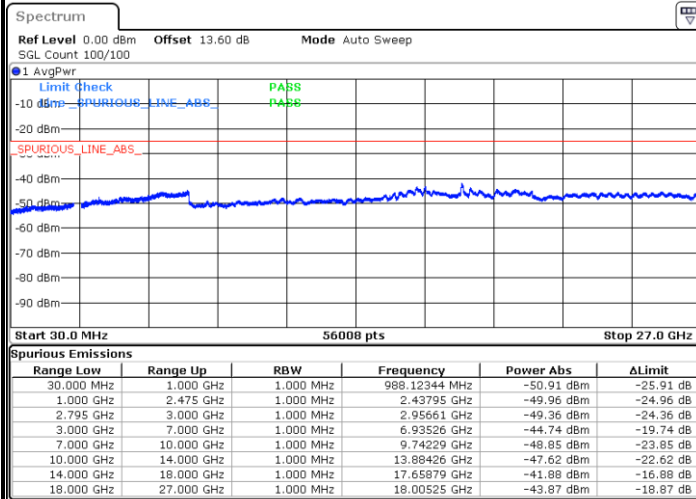
Date: 1.OCT.2020 08:28:36

Middle Channel / 1RB1



Date: 1.OCT.2020 07:32:00

Highest Channel / 1RB1



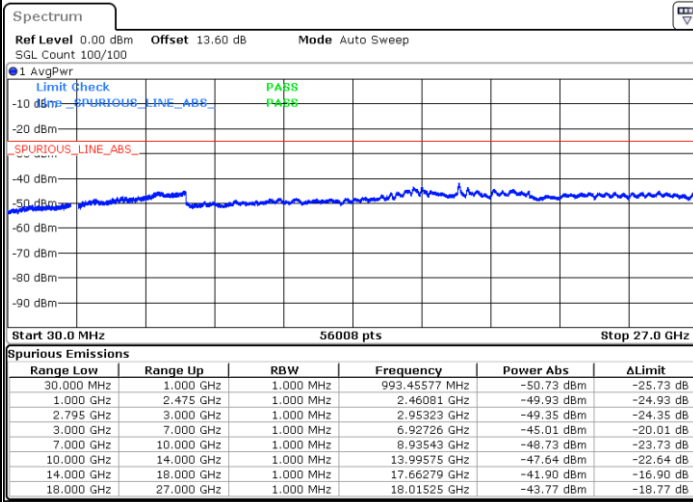
Date: 1.OCT.2020 08:36:29



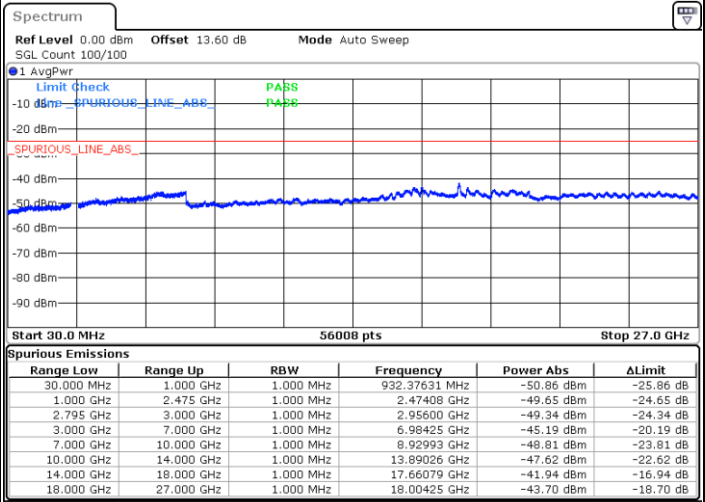
FR1 n41 / 100MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

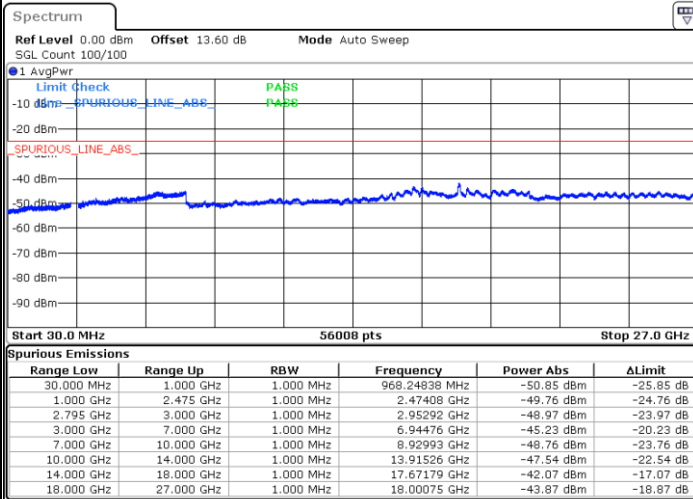


Date: 1.OCT.2020 07:57:23



Date: 1.OCT.2020 07:39:30

Highest Channel / 1RB1



Date: 1.OCT.2020 08:07:50

Frequency Stability

Test Conditions		FR1 n41 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0041	PASS
40	Normal Voltage	0.0145	
30	Normal Voltage	0.0033	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0045	
0	Normal Voltage	0.0153	
-10	Normal Voltage	0.0027	
-20	Normal Voltage	0.0018	
-30	Normal Voltage	0.0062	
20	Maximum Voltage	0.0218	
20	Normal Voltage	0.0045	
20	Battery End Point	0.0024	

Note:

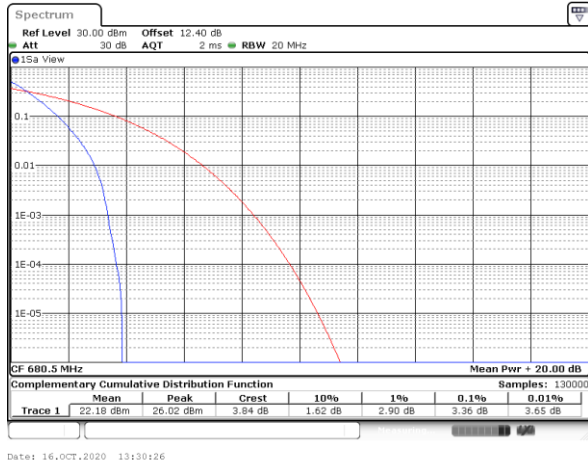
1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.30 V. ; Maximum Voltage =4.25 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

**FR1 n71****Peak-to-Average Ratio**

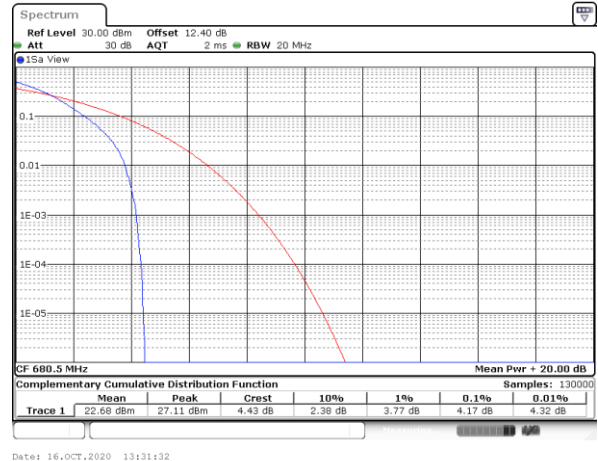
Mode	FR1 n71 / 20MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	3.36	4.17	5.83	6.23	PASS
Mode	FR1 n71 / 20MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Middle CH	6.90				PASS

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

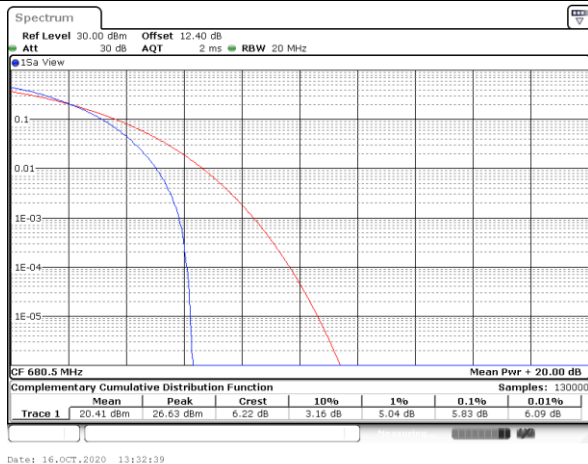
PI/2 BPSK



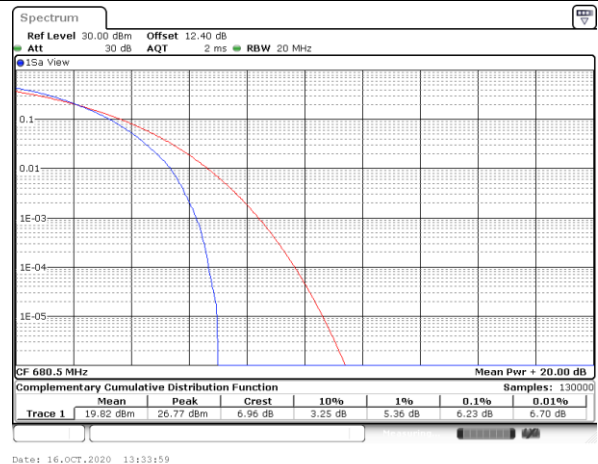
QPSK



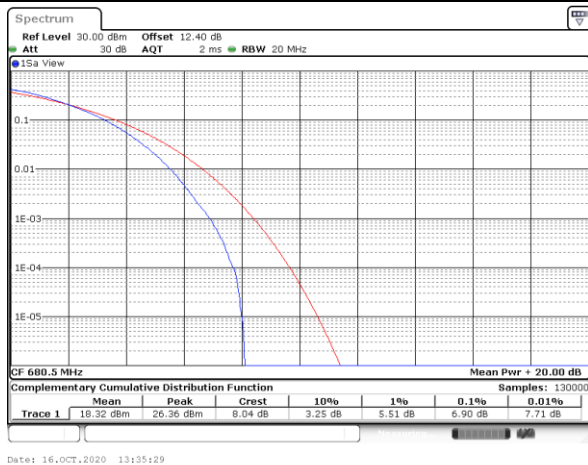
16QAM



64QAM



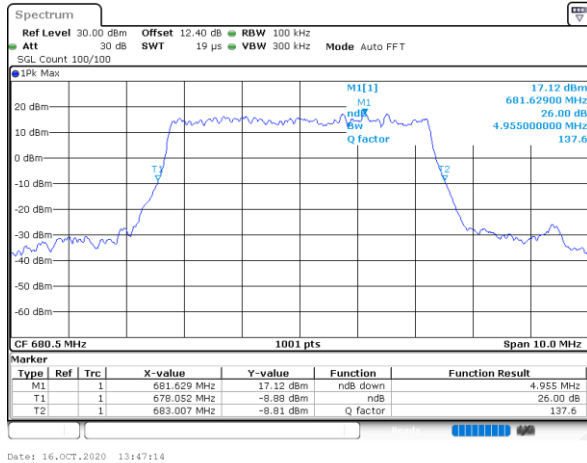
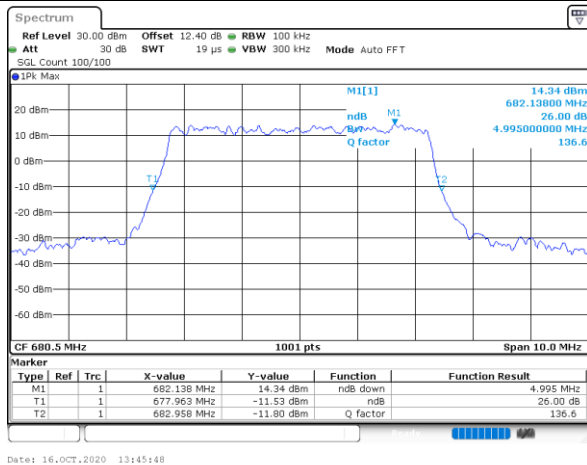
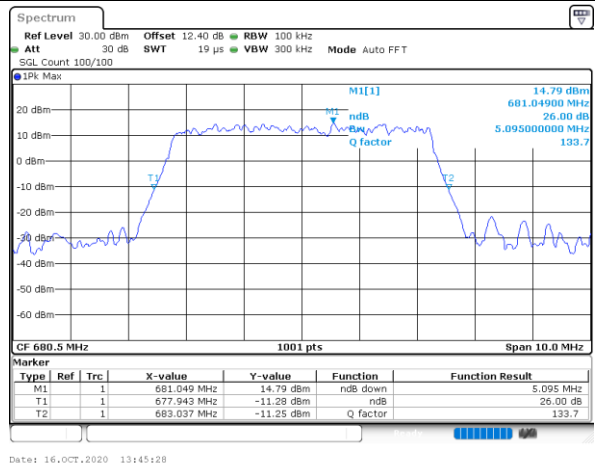
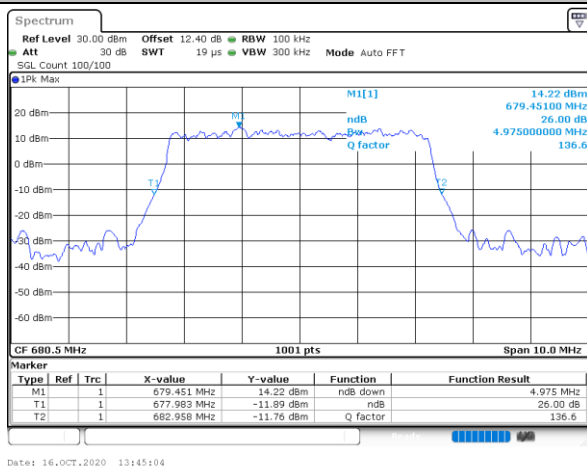
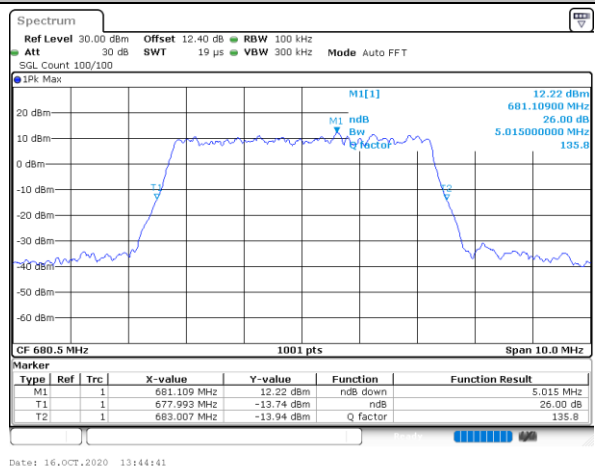
256QAM



**26dB Bandwidth**

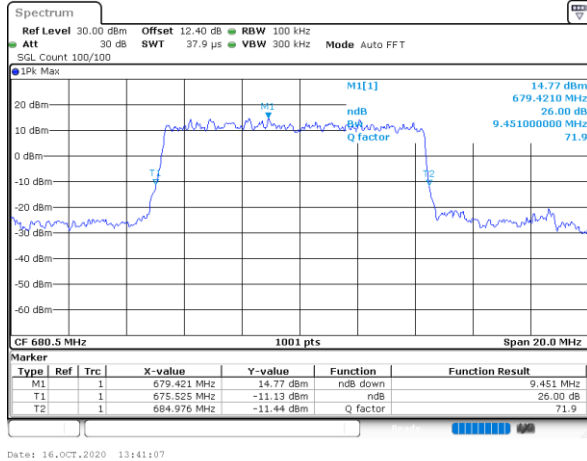
Mode	FR1 n71 : 26dB BW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	PI/2 BPSK		PI/2 BPSK		PI/2 BPSK		PI/2 BPSK	
Middle CH	4.96		9.45		14.24		18.74	

Mode	FR1 n71 : 26dB BW(MHz) / CP OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	5.00	5.10	9.65	9.93	14.84	14.93	19.82	19.90
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	4.97	5.01	9.69	9.81	15.02	14.93	19.98	19.74

FR1 n71 / 5MHz / DFT-S OFDM / Middle Channel
PI/2 BPSK

FR1 n71 / 5MHz / CP OFDM / Middle Channel
QPSK

16QAM

64QAM

256QAM


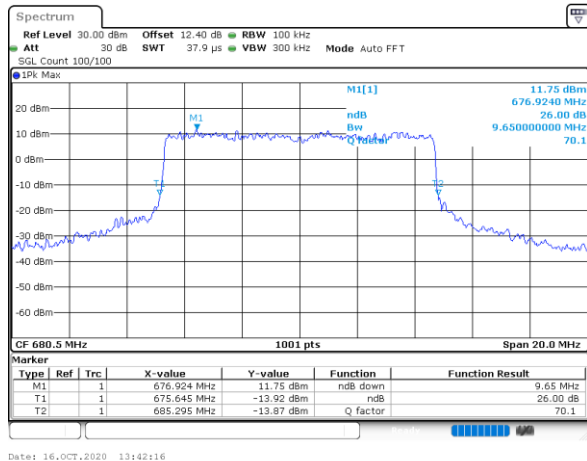
FR1 n71 / 10MHz / DFT-S OFDM / Middle Channel

PI/2 BPSK

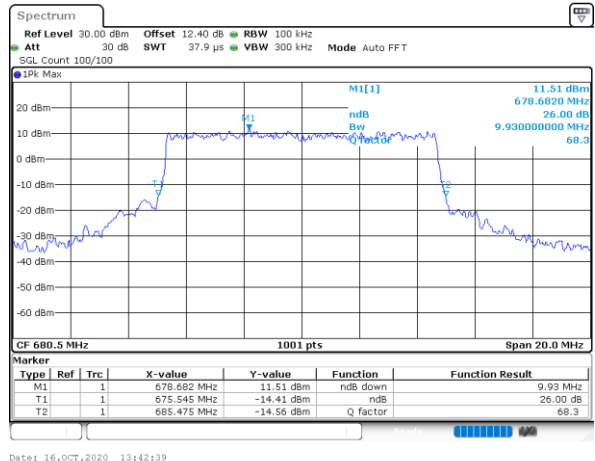


FR1 n71 / 10MHz / CP OFDM / Middle Channel

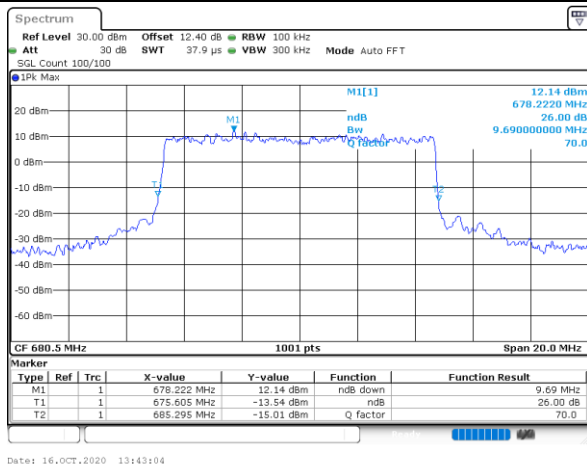
QPSK



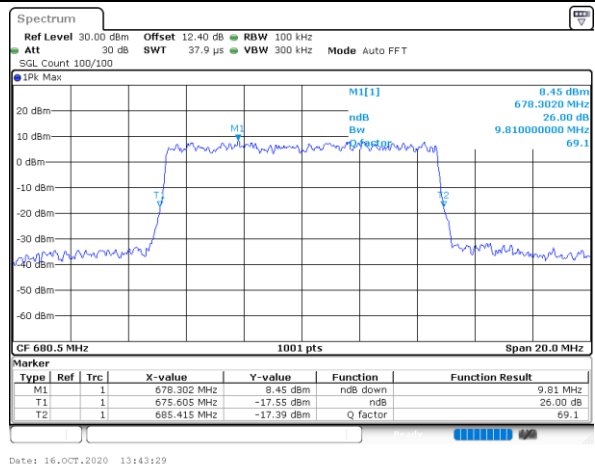
16QAM



64QAM



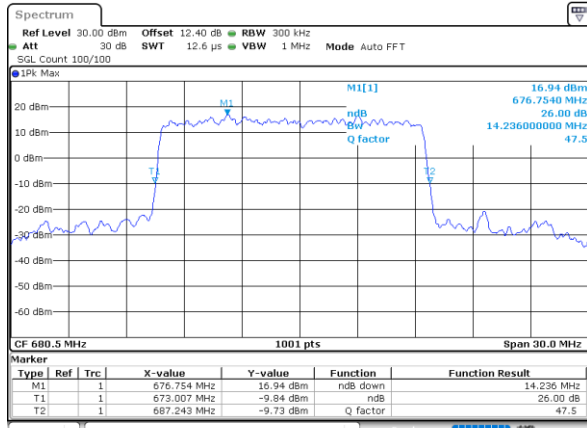
256QAM





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

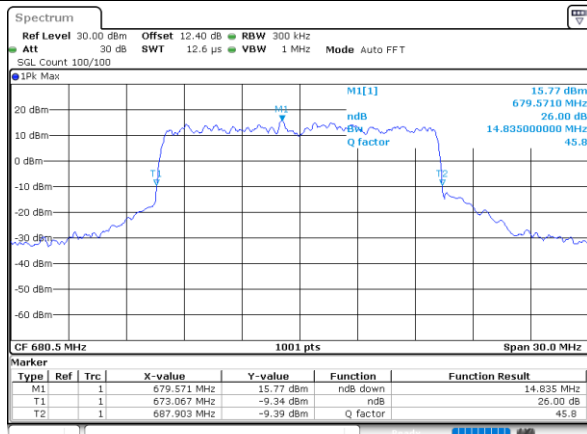
PI/2 BPSK



Date: 16.OCT.2020 13:40:23

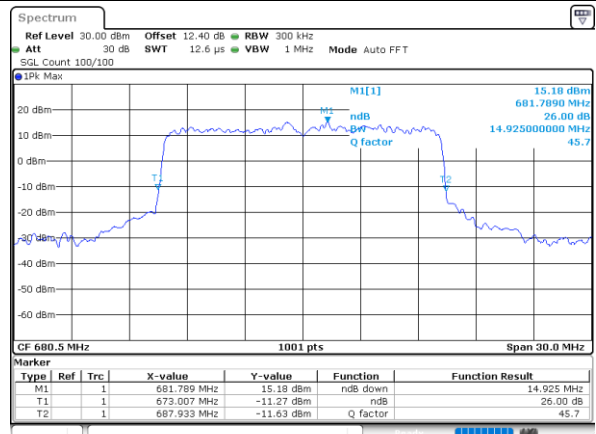
FR1 n71 / 15MHz / CP OFDM / Middle Channel

QPSK



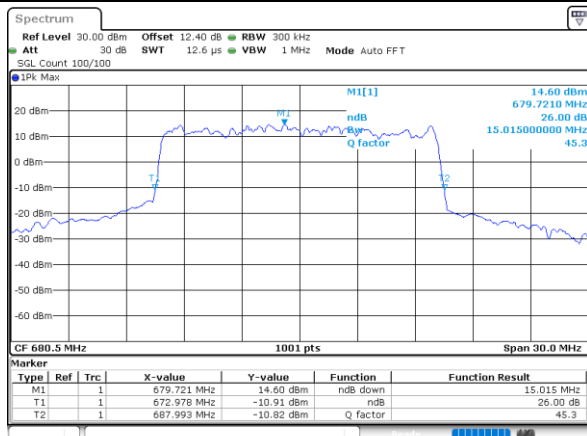
Date: 16.OCT.2020 13:39:17

16QAM



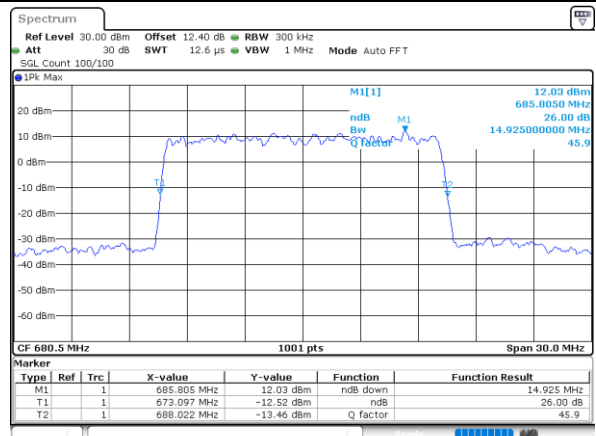
Date: 16.OCT.2020 13:38:50

64QAM



Date: 16.OCT.2020 13:38:10

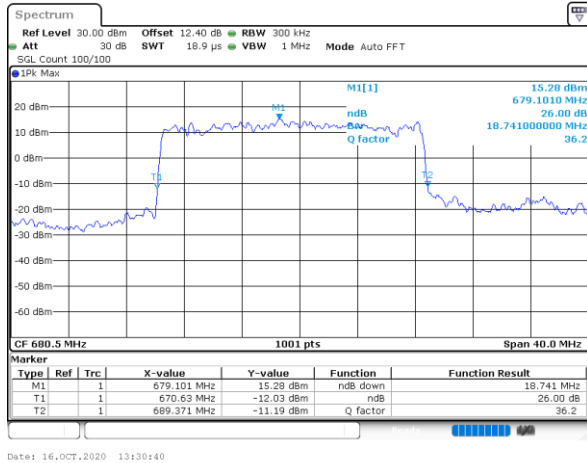
256QAM



Date: 16.OCT.2020 13:36:55

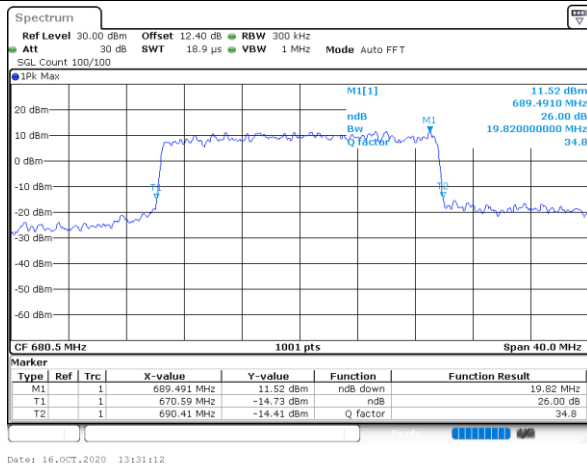
FR1 n71 / 20MHz / DFT-S OFDM / Middle Channel

PI/2 BPSK

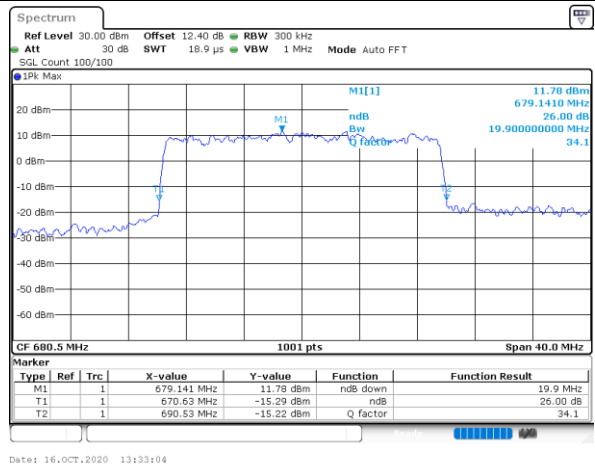


FR1 n71 / 20MHz / CP OFDM

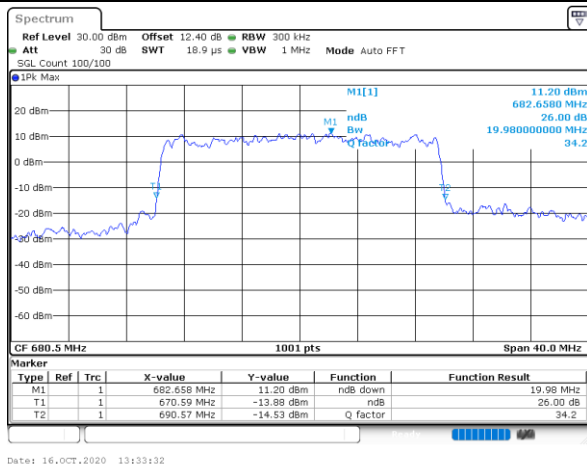
QPSK



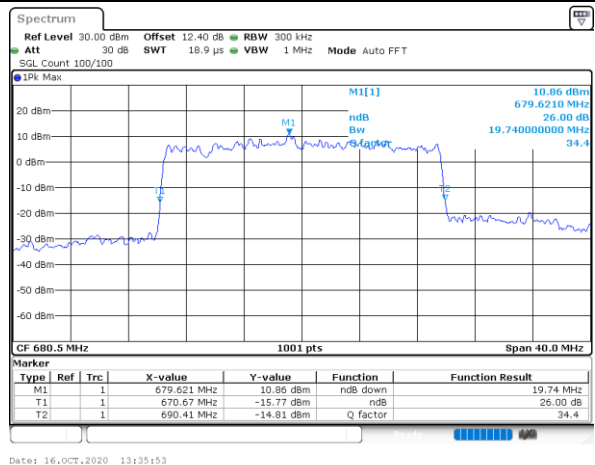
16QAM



64QAM



256QAM



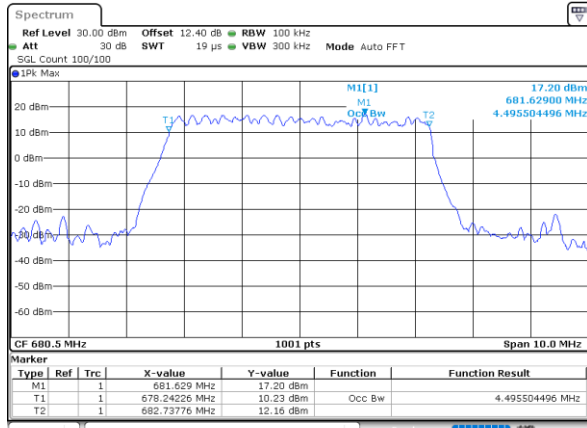
**Occupied Bandwidth**

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	4.50		8.89		13.43		17.86	

Mode	FR1 n71 : 99%OBW (MHz) / CP OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	4.49	4.49	9.29	9.27	14.09	14.15	18.90	18.86
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	4.49	4.49	9.25	9.29	14.06	14.15	18.90	18.90

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

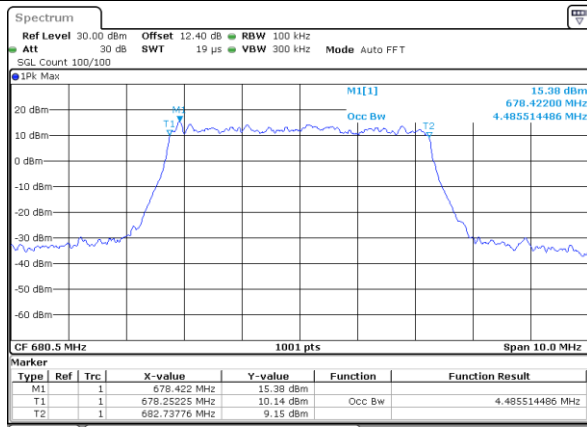
PI/2 BPSK



Date: 16.OCT.2020 13:46:59

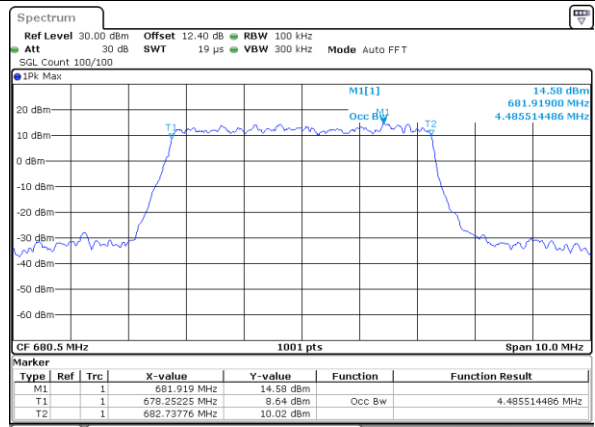
FR1 n71 / 5MHz / CP OFDM

QPSK



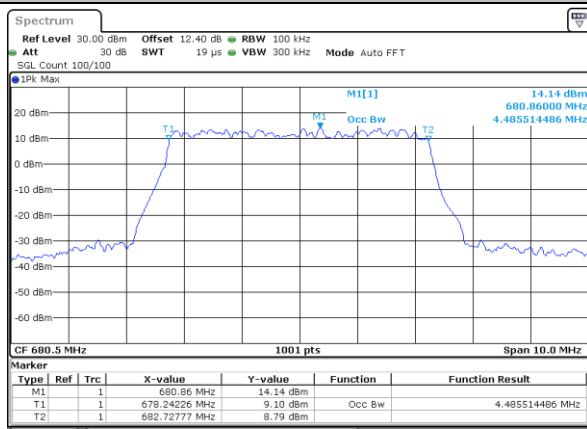
Date: 16.OCT.2020 13:45:42

16QAM



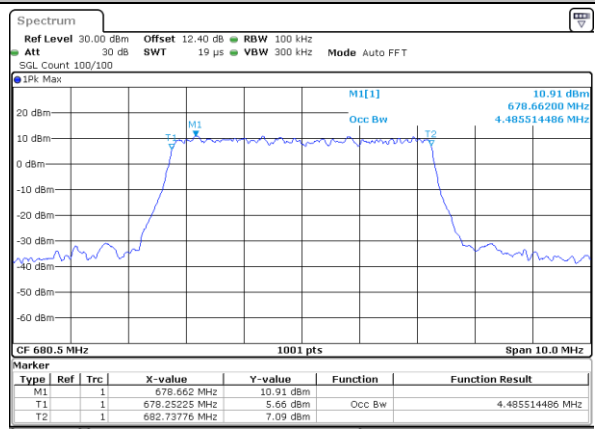
Date: 16.OCT.2020 13:45:21

64QAM



Date: 16.OCT.2020 13:44:58

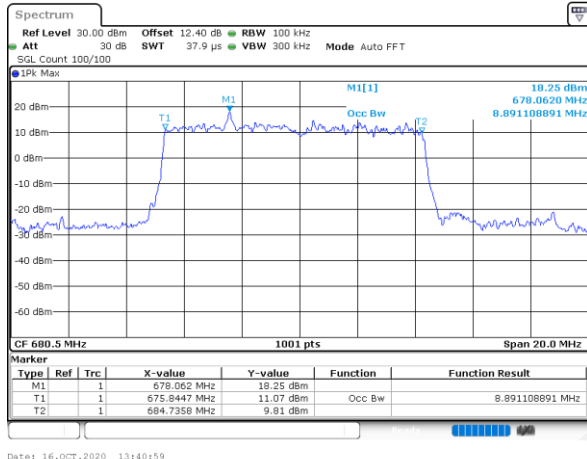
256QAM



Date: 16.OCT.2020 13:44:34

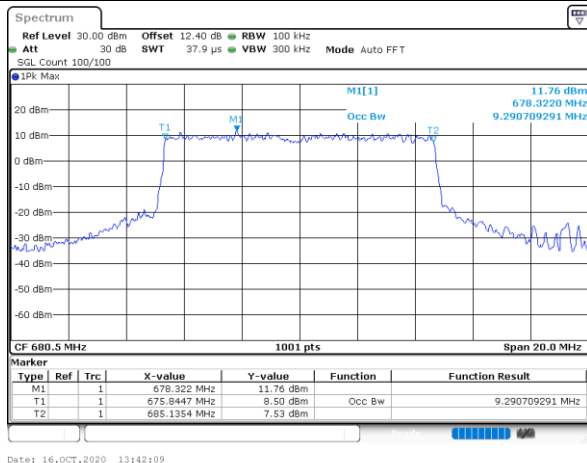
FR1 n71 / 10MHz / DFT-S OFDM / Middle Channel

PI/2 BPSK

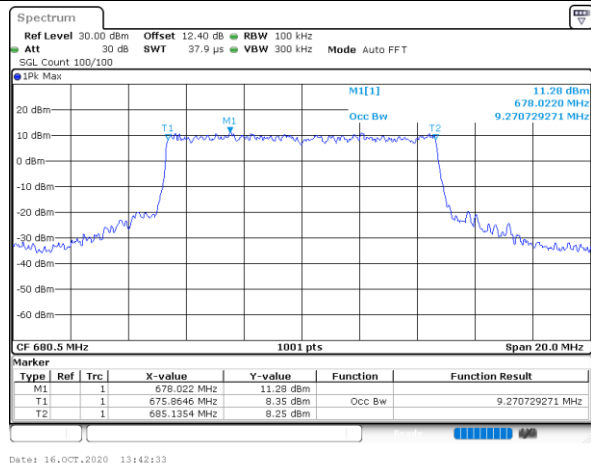


FR1 n71 / 10MHz / CP OFDM

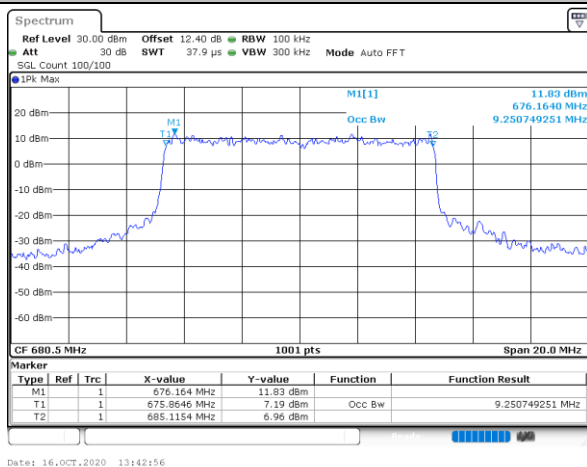
QPSK



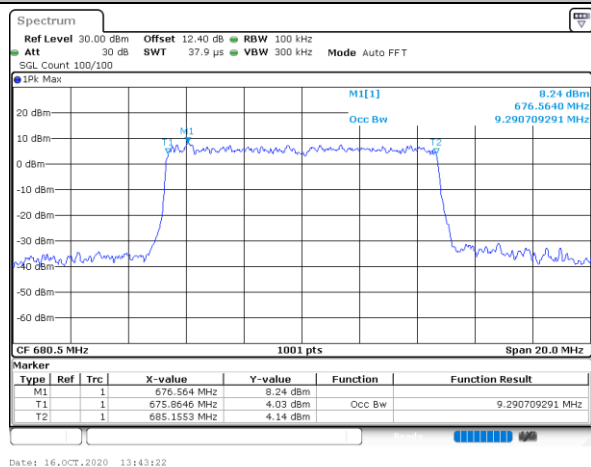
16QAM



64QAM

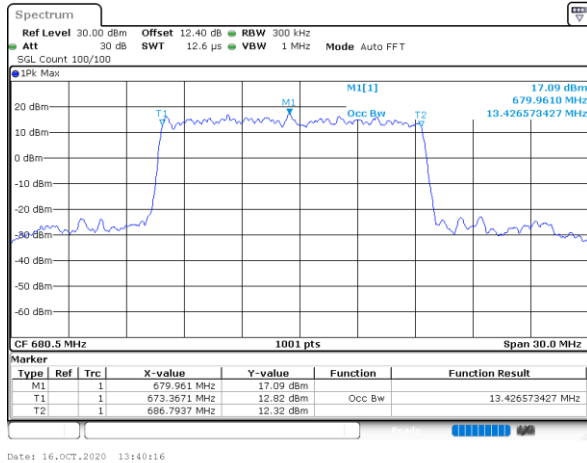


256QAM



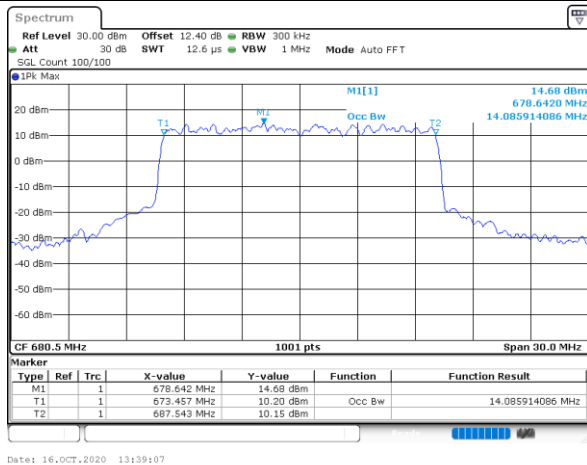
FR1 n71 / 15MHz / DFT-S OFDM / Middle Channel

PI/2 BPSK

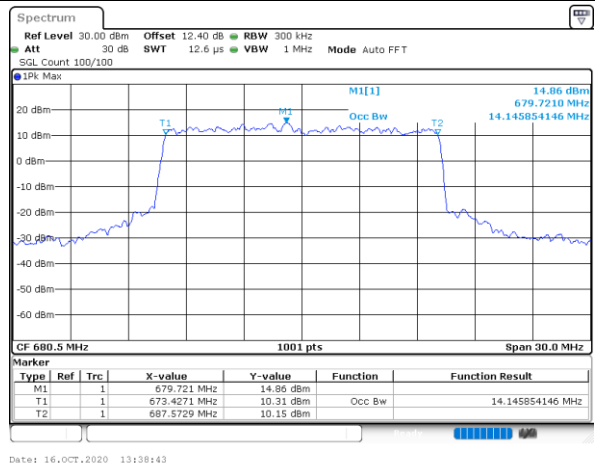


FR1 n71 / 15MHz / CP OFDM

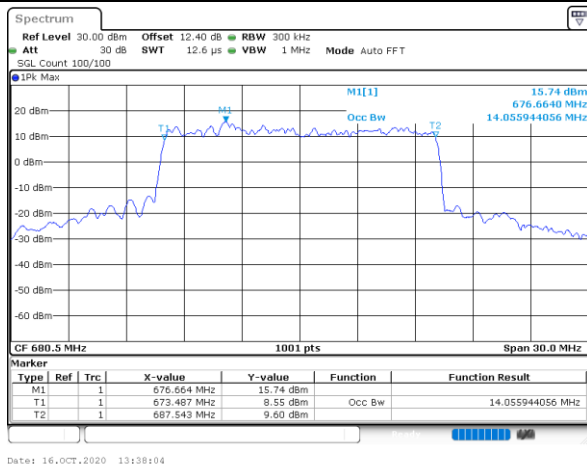
QPSK



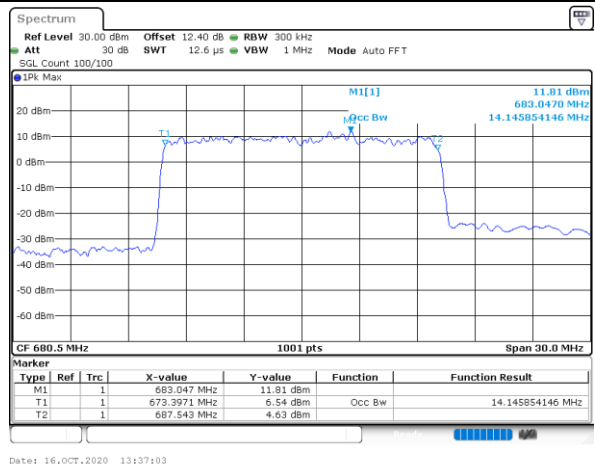
16QAM



64QAM

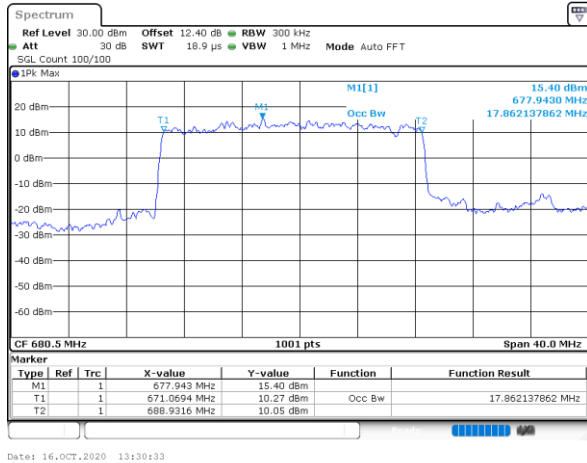


256QAM



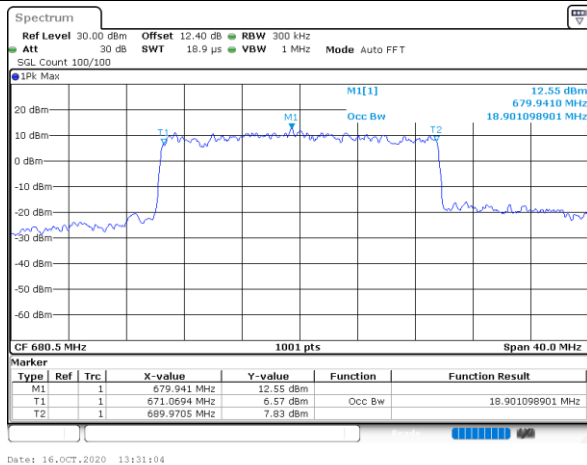
FR1 n71 / 20MHz / DFT-S OFDM / Middle Channel

PI/2 BPSK

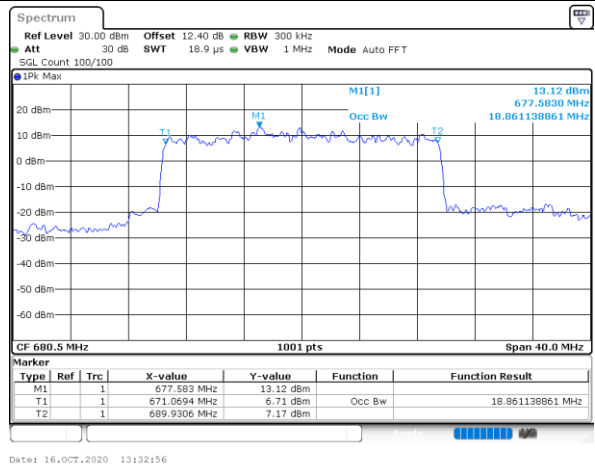


FR1 n71 / 20MHz / CP OFDM

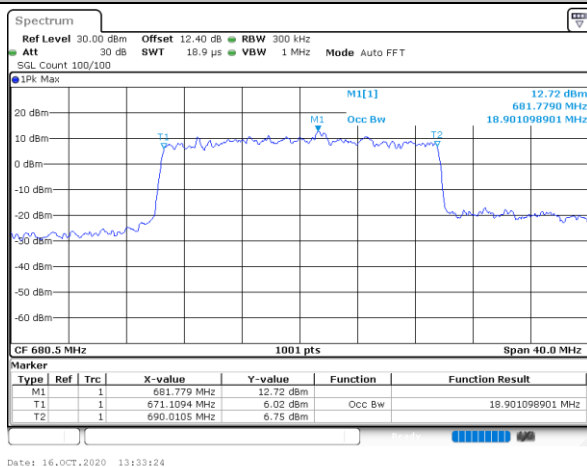
QPSK



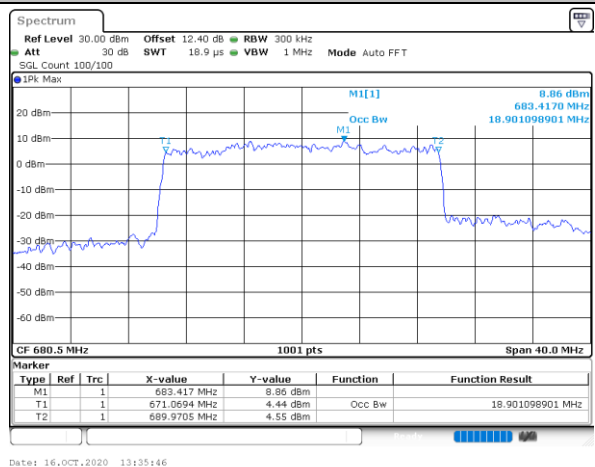
16QAM

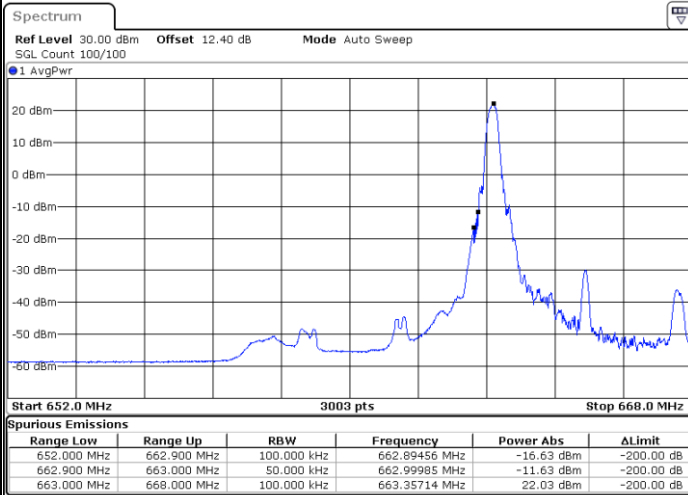


64QAM



256QAM

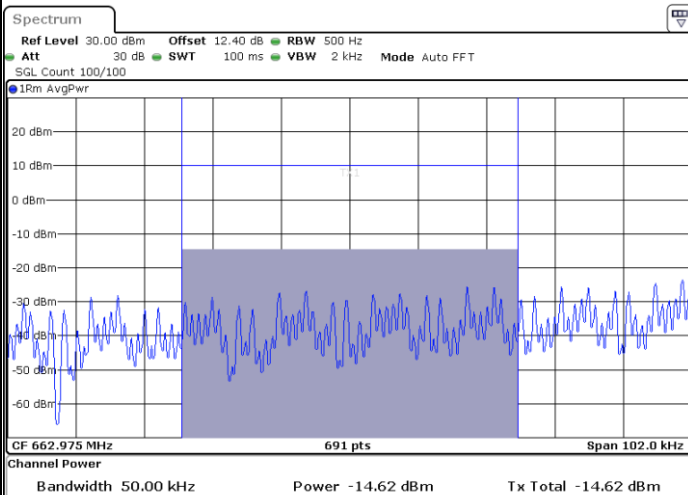


**Conducted Band Edge****FR1 n71 / 5MHz / DFT-S OFDM / PI/2 BPSK****Lowest Band Edge / 1RB0****Highest Band Edge / 1RBmax**

Date: 16.OCT.2020 14:04:30



Date: 16.OCT.2020 14:33:14

Channel Power -14.62dBm < -13dBm (Pass)

Date: 16.OCT.2020 16:46:07

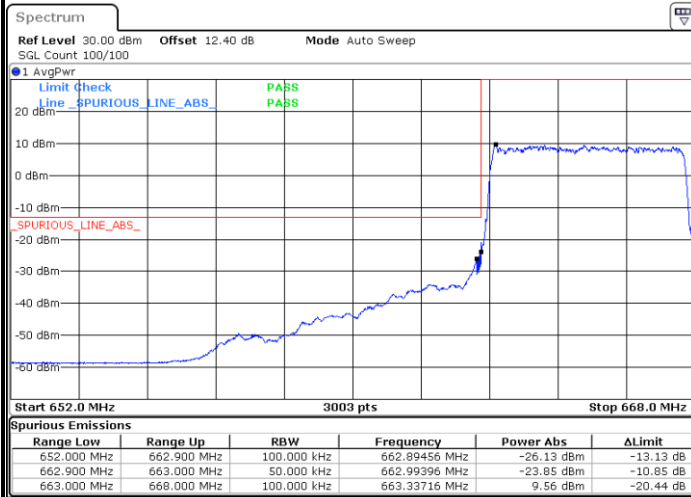


FR1 n71 / 5MHz / DFT-S OFDM / PI/2 BPSK

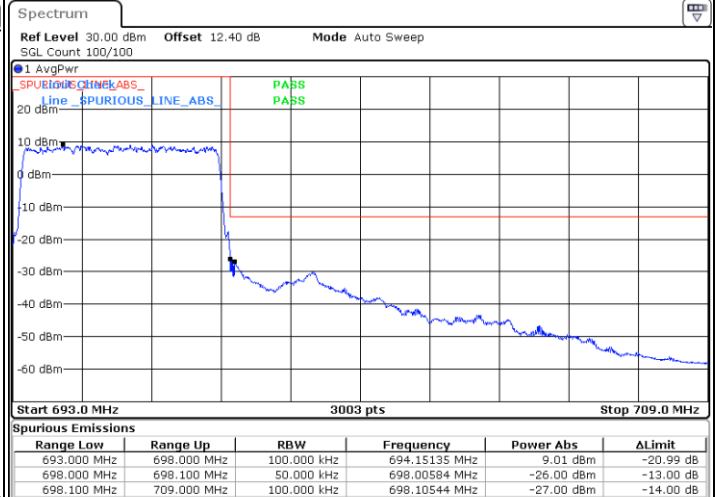
Lowest Band Edge / 1RB0

FR1 n71 / 5MHz / DFT-S OFDM / PI/2 BPSK

Highest Band Edge / 1RBmax



Date: 16.OCT.2020 14:17:10



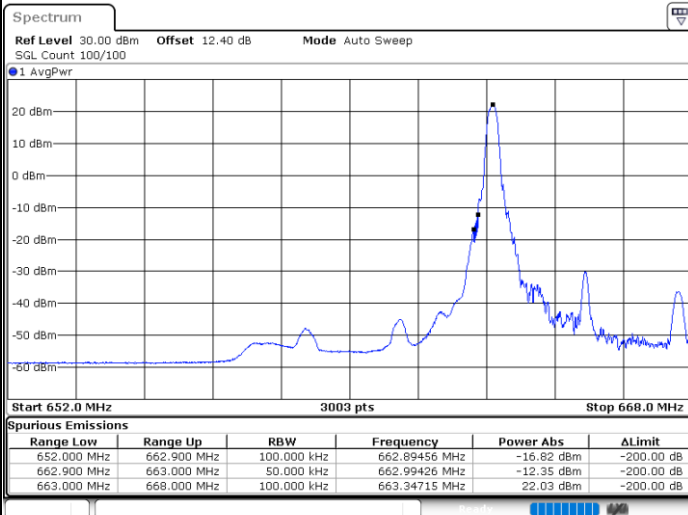
Date: 16.OCT.2020 14:20:07



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

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

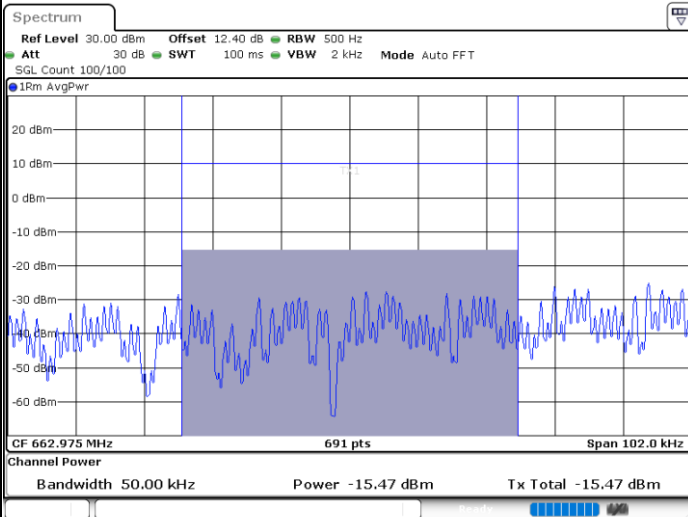


Date: 16.OCT.2020 14:07:18



Date: 16.OCT.2020 14:27:49

Channel Power -15.47dBm < -13dBm (Pass)



Date: 16.OCT.2020 16:47:27

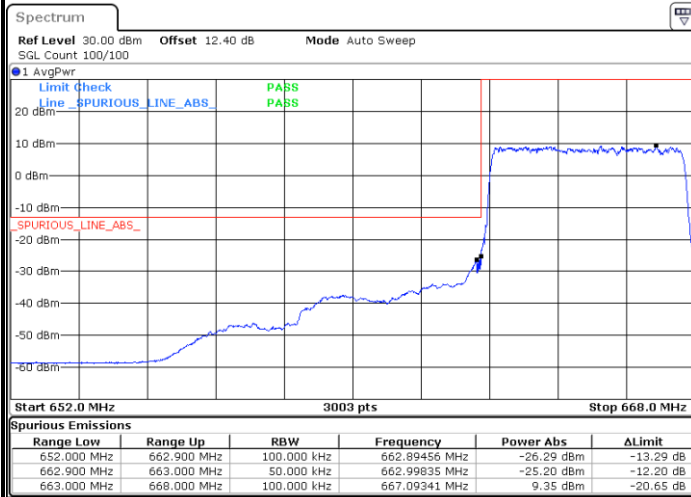


FR1 n71 / 5MHz / DFT-S OFDM / QPSK

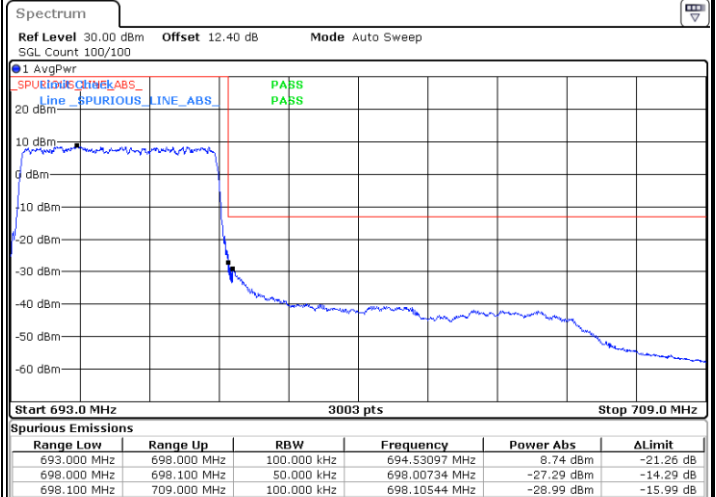
Lowest Band Edge / Full RB

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

Highest Band Edge / Full RB



Date: 16.OCT.2020 14:15:25



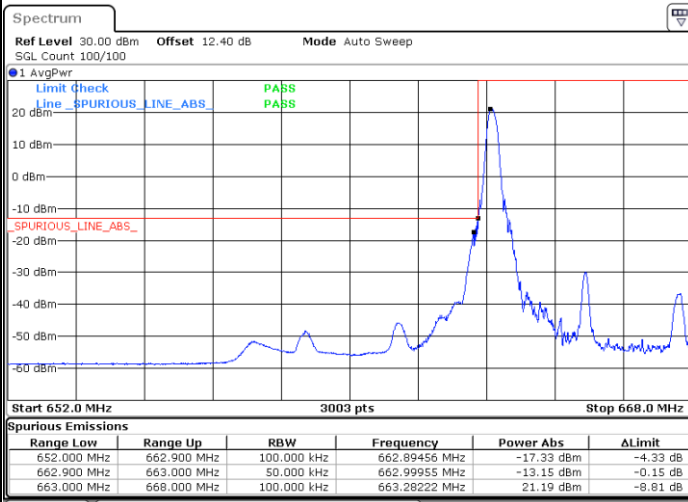
Date: 16.OCT.2020 14:21:01



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

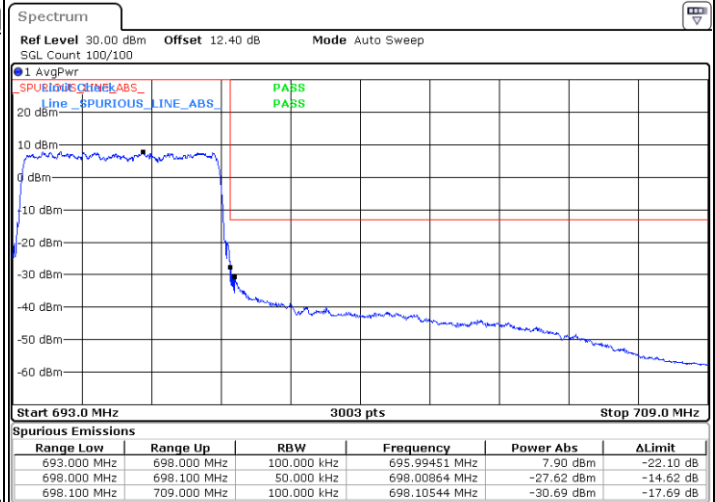
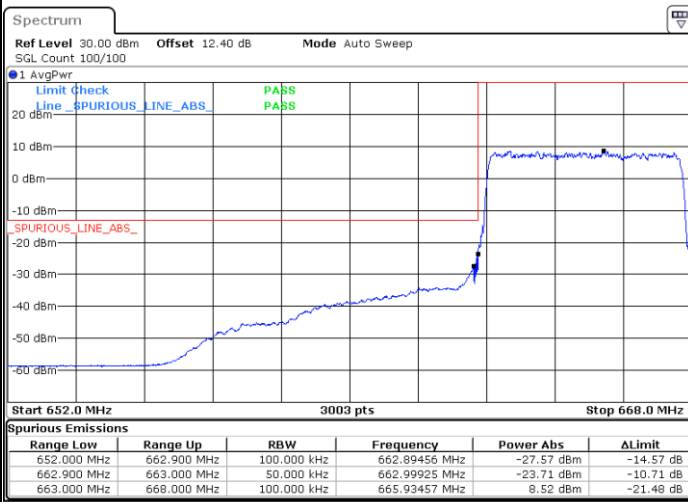
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

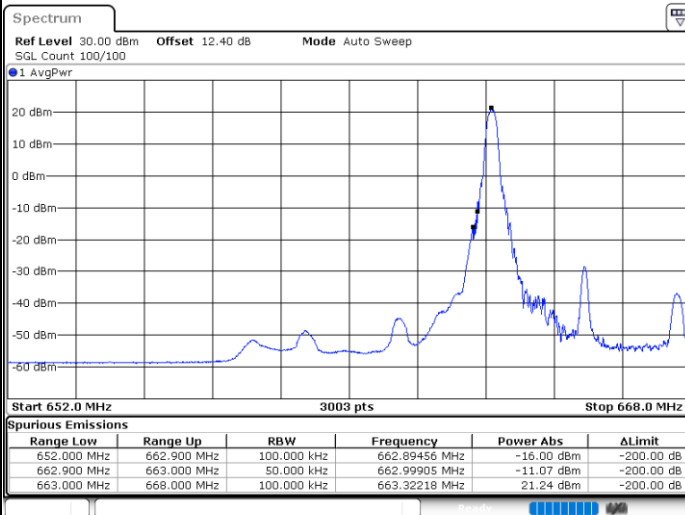




FR1 n71 / 5MHz / DFT-S OFDM / 64QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

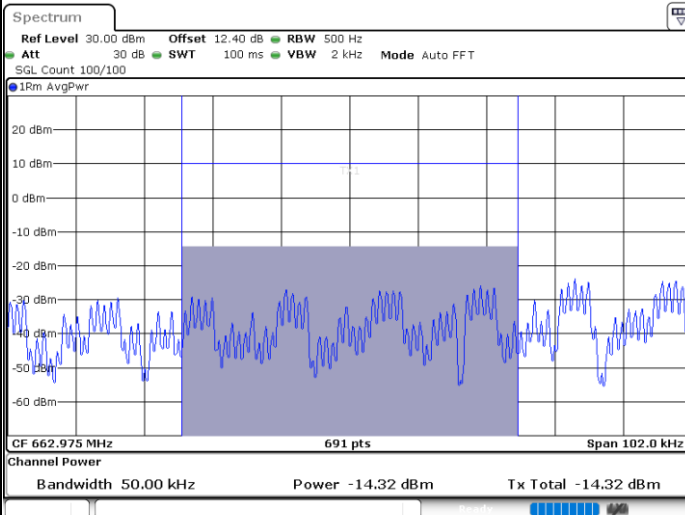


Date: 16.OCT.2020 14:09:12



Date: 16.OCT.2020 14:26:19

Channel Power -14.32dBm < -13dBm (Pass)

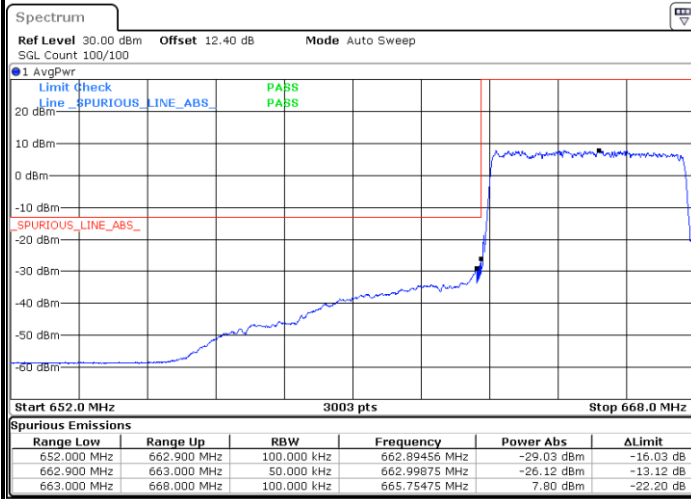


Date: 16.OCT.2020 16:44:37



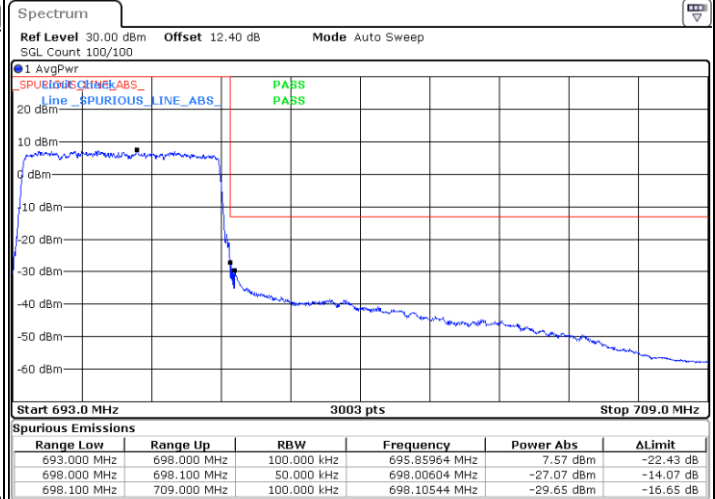
FR1 n71 / 5MHz / DFT-S OFDM / 64QAM

Lowest Band Edge / Full RB



Date: 16.OCT.2020 14:11:51

Highest Band Edge / Full RB



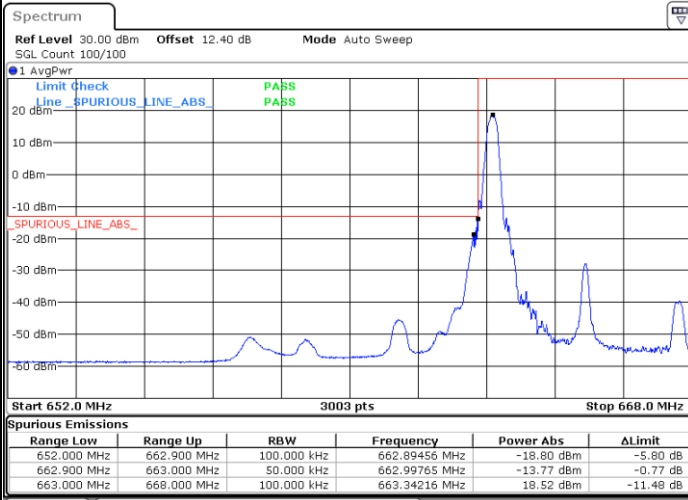
Date: 16.OCT.2020 14:23:36



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

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



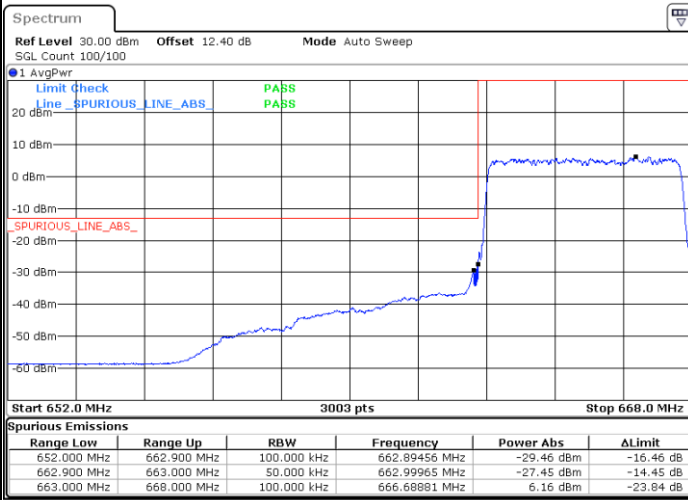
Date: 16.OCT.2020 14:09:56



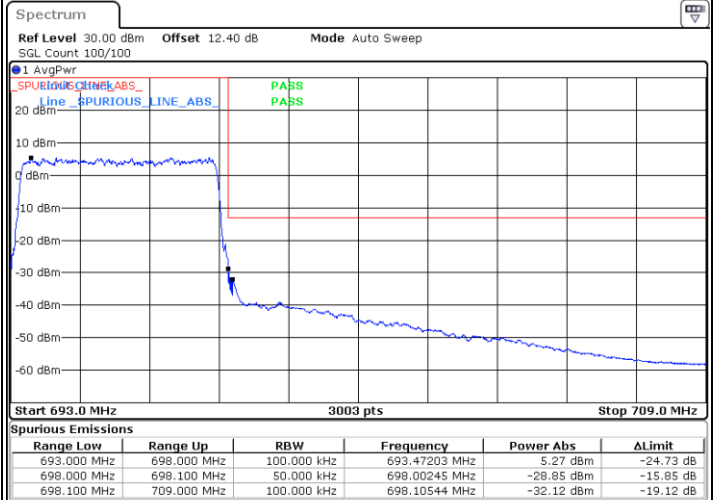
Date: 16.OCT.2020 14:25:30

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 16.OCT.2020 14:10:46



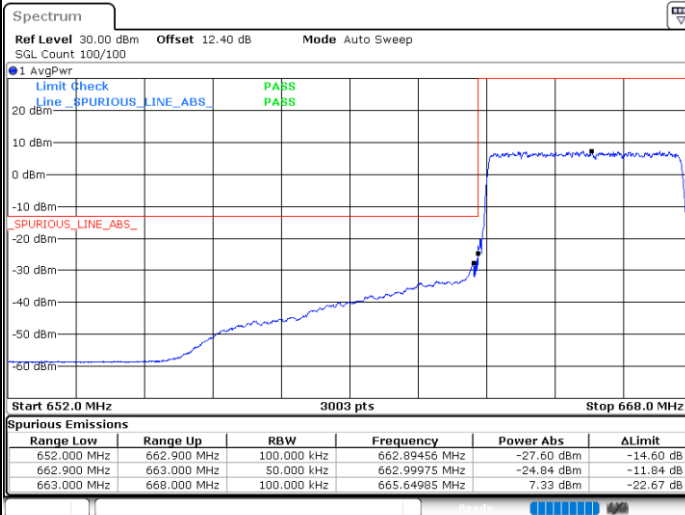
Date: 16.OCT.2020 14:24:21



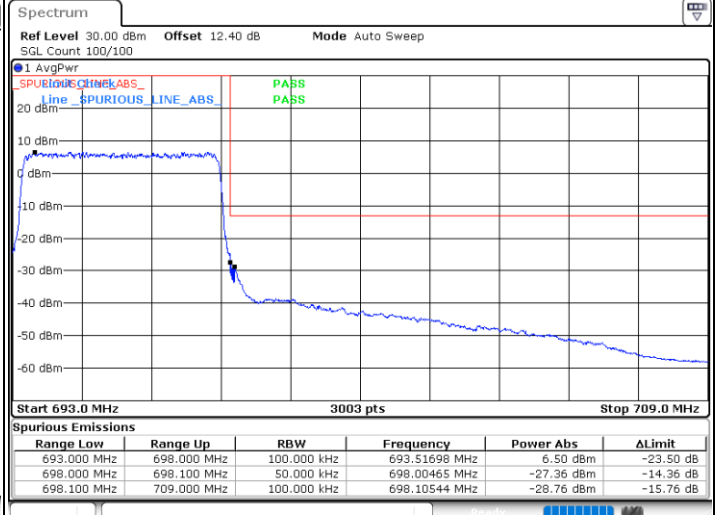
FR1 n71 / 5MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 16.OCT.2020 14:16:21



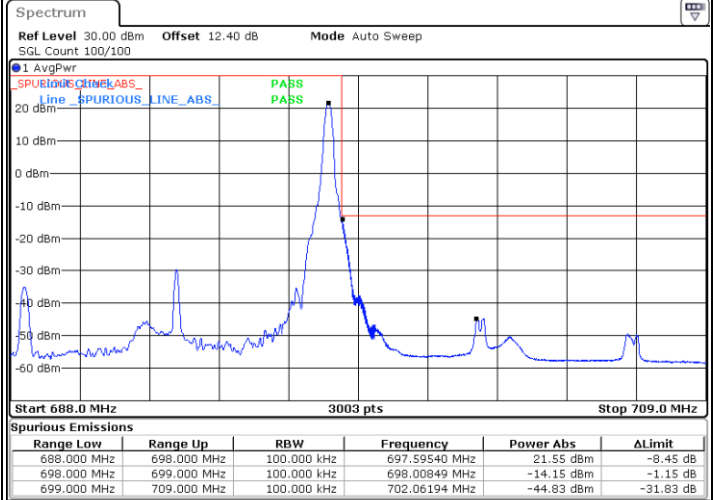
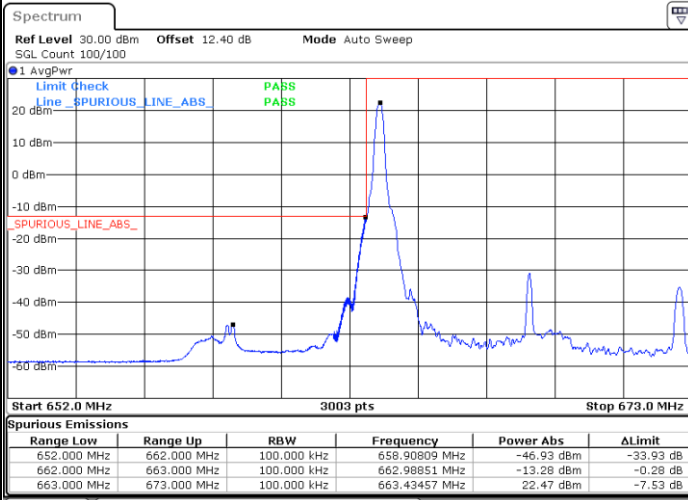
Date: 16.OCT.2020 14:22:00



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

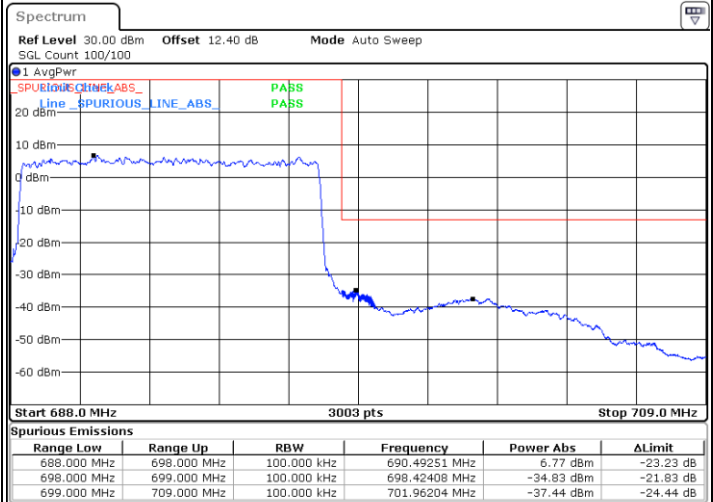
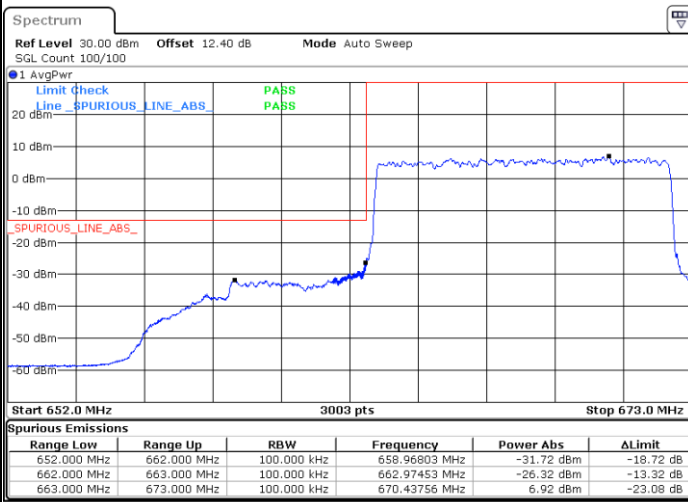
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

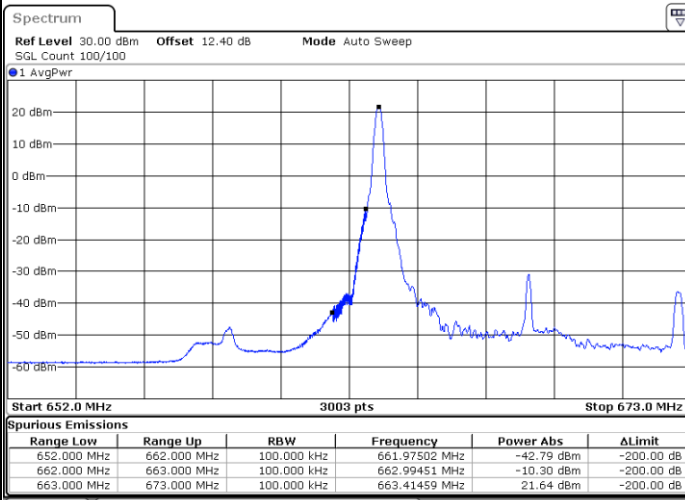




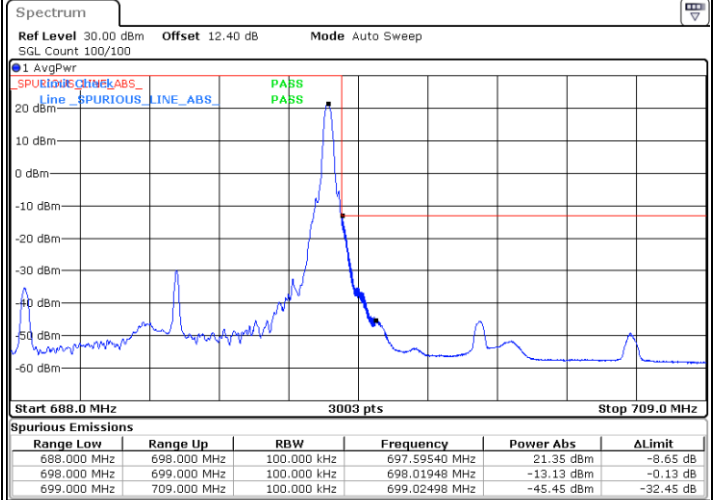
FR1 n71 / 10MHz / DFT-s-OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

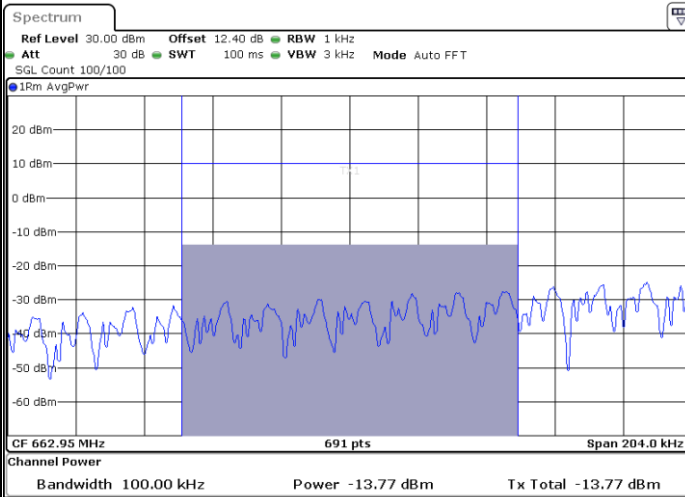


Date: 16.OCT.2020 14:38:27



Date: 16.OCT.2020 15:07:21

Channel Power -13.77dBm < -13dBm (Pass)

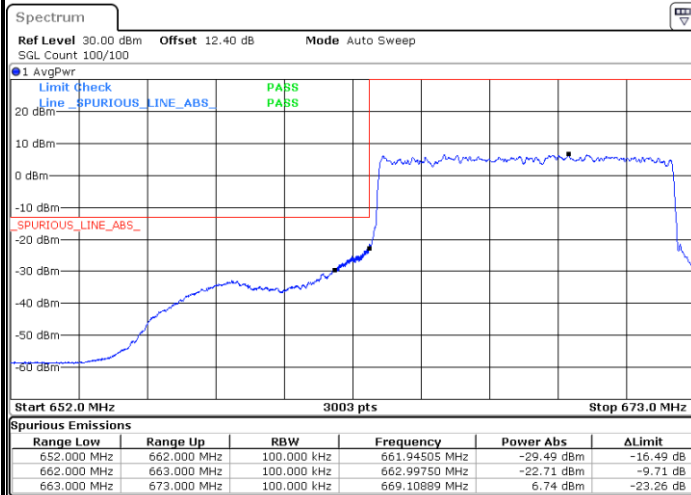


Date: 16.OCT.2020 16:37:23



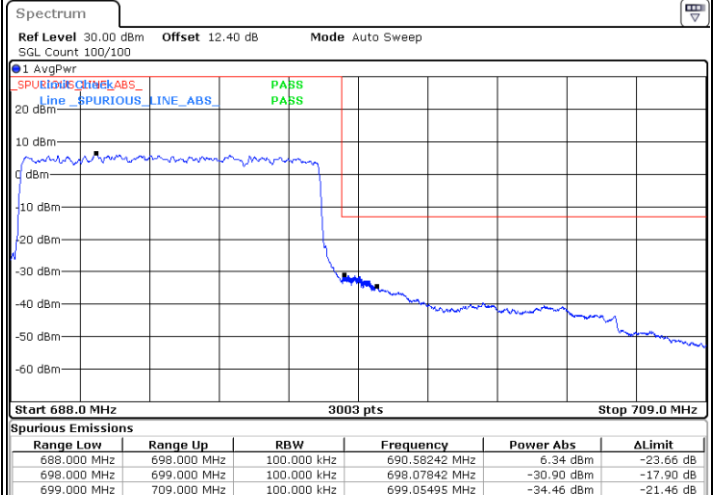
FR1 n71 / 10MHz / DFT-s-OFDM / QPSK

Lowest Band Edge / Full RB



Date: 16.OCT.2020 14:45:58

Highest Band Edge / Full RB



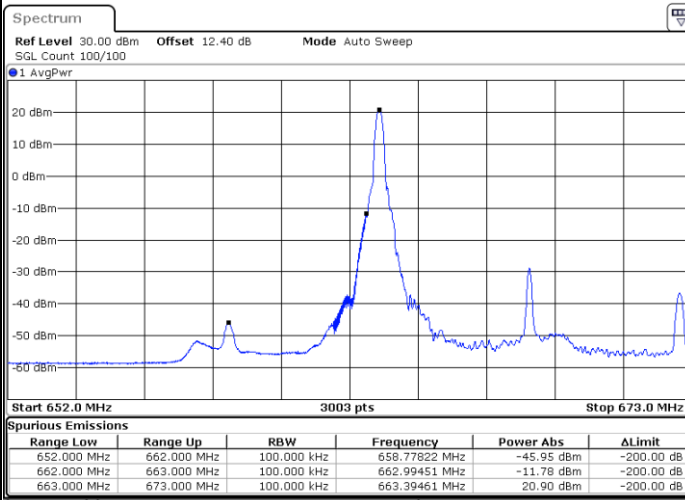
Date: 16.OCT.2020 14:55:40



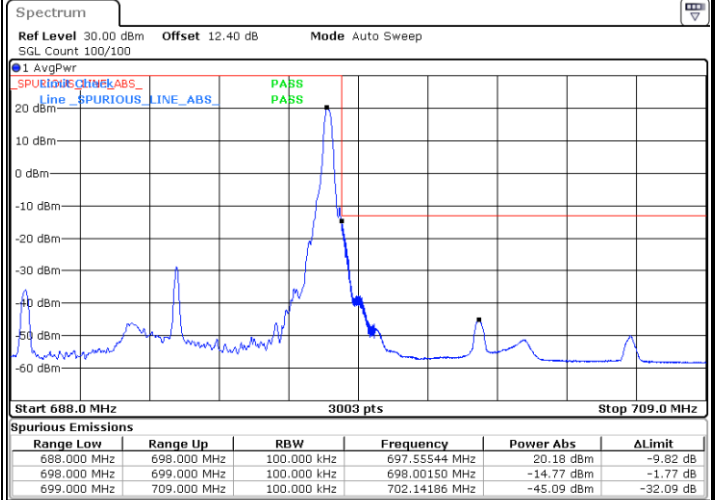
FR1 n71 / 10MHz / DFT-s-OFDM / 16QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

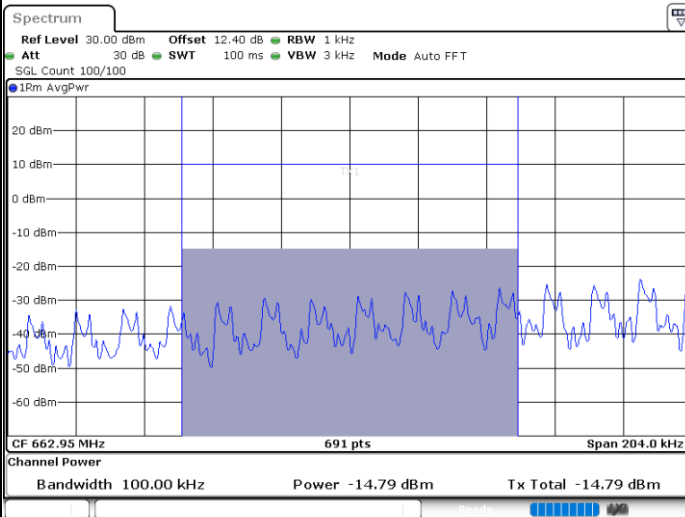


Date: 16.OCT.2020 14:40:57



Date: 16.OCT.2020 15:00:24

Channel Power -14.79dBm < -13dBm (Pass)



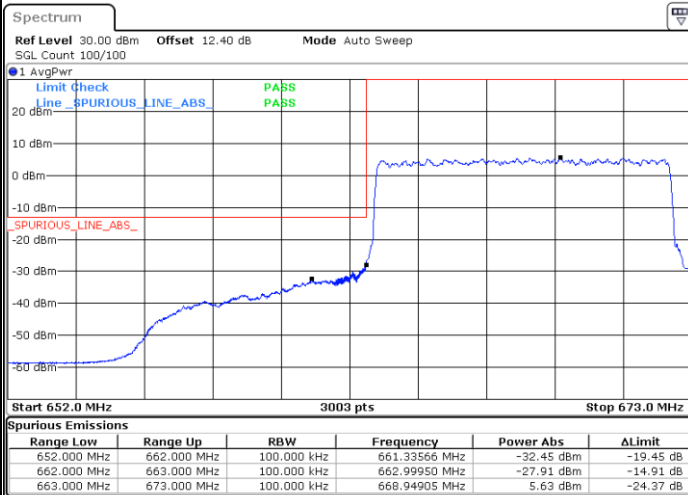
Date: 16.OCT.2020 16:36:22



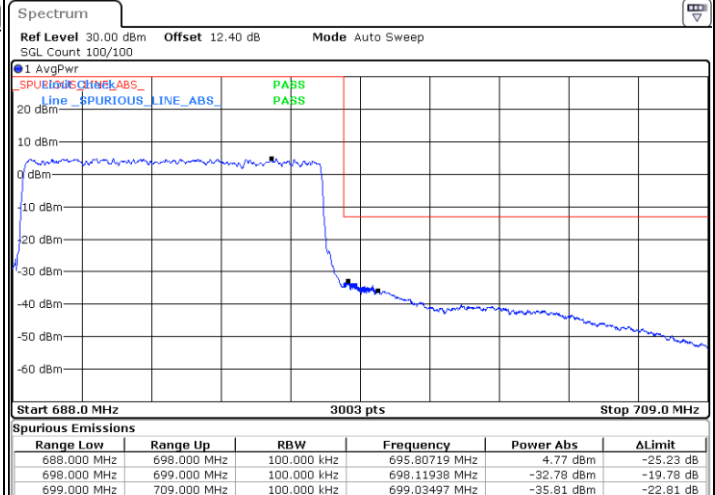
FR1 n71 / 10MHz / DFT-s-OFDM / 16QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 16.OCT.2020 14:45:14



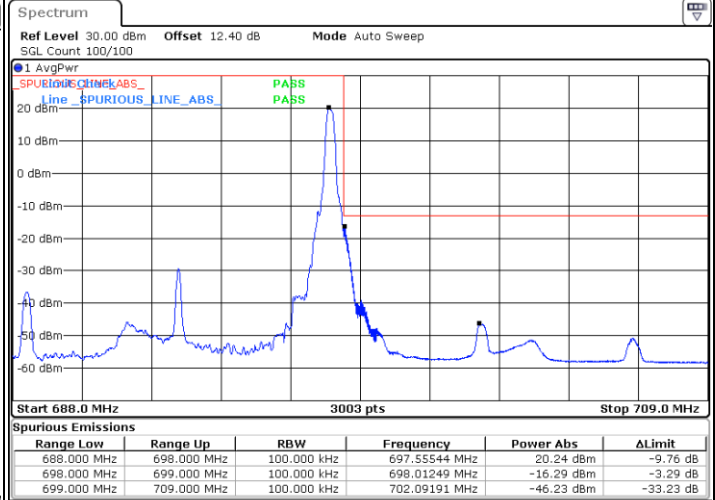
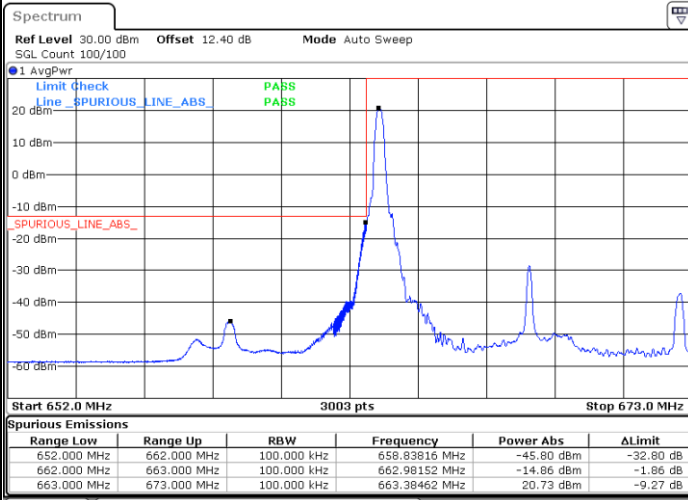
Date: 16.OCT.2020 14:56:23



FR1 n71 / 10MHz / DFT-s-OFDM / 64QAM

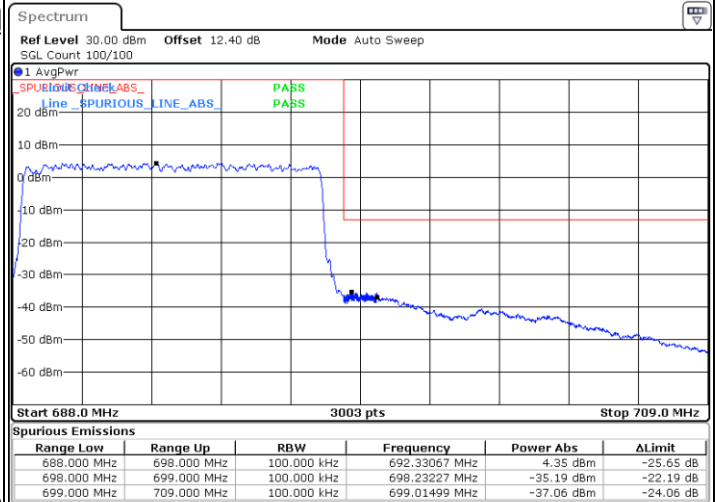
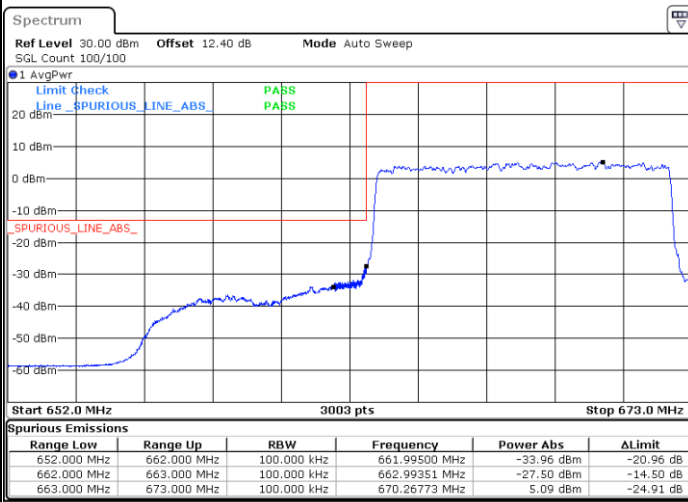
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

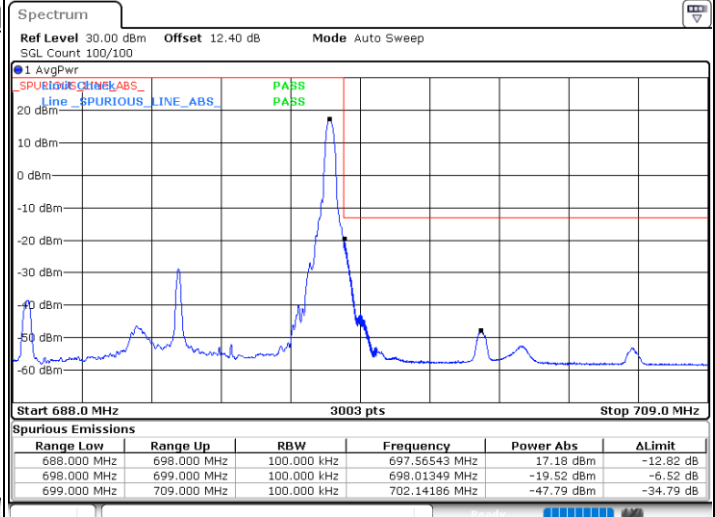
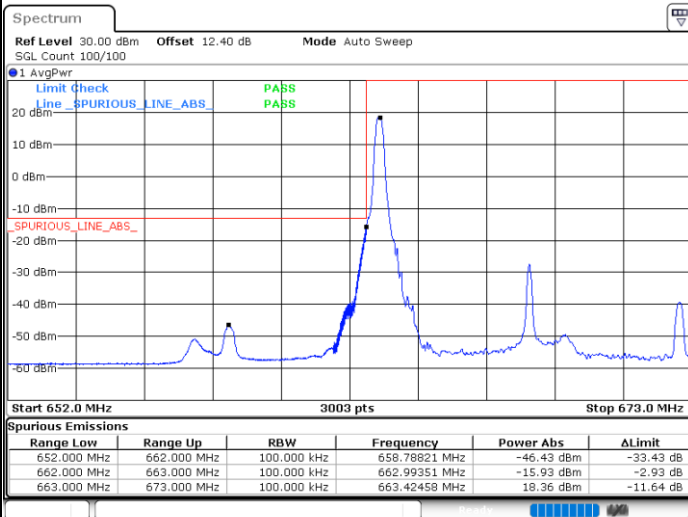




FR1 n71 / 10MHz / DFT-s-OFDM / 256QAM

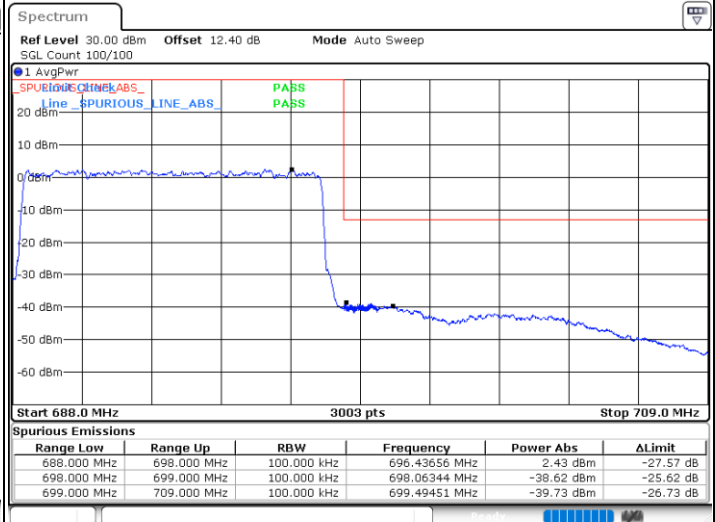
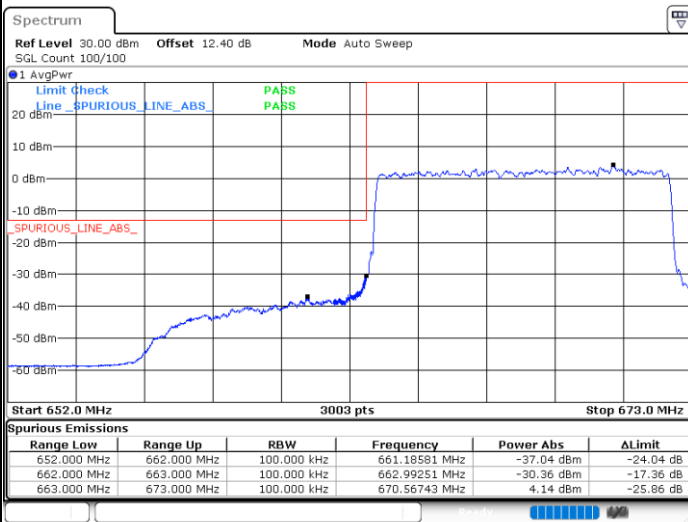
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

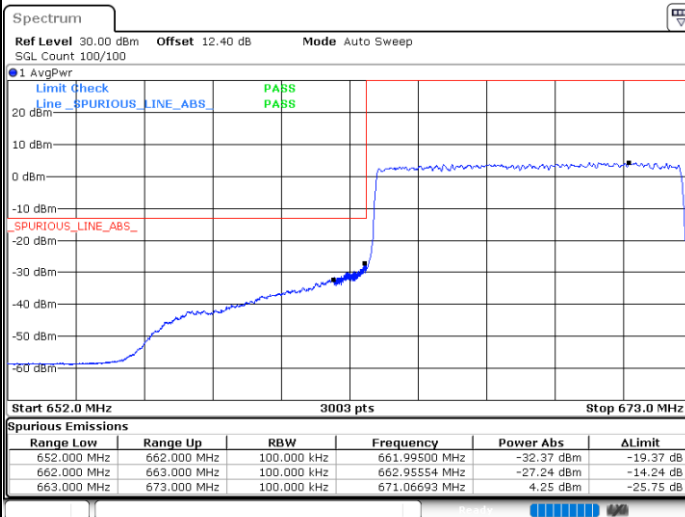




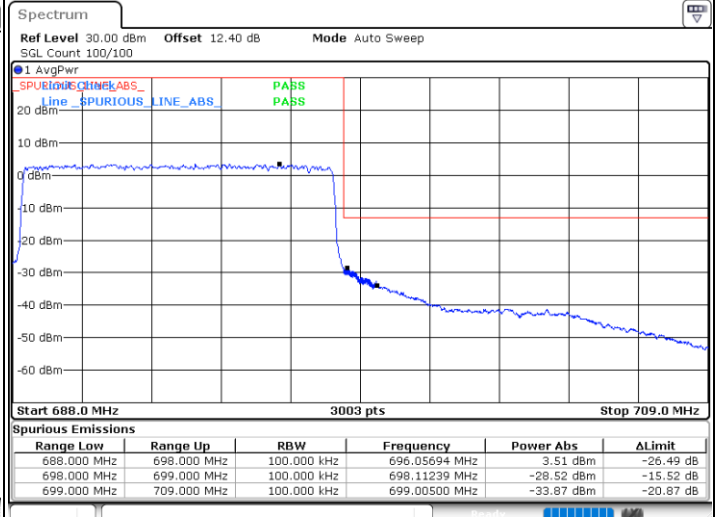
FR1 n71 / 10MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 16.OCT.2020 14:46:48



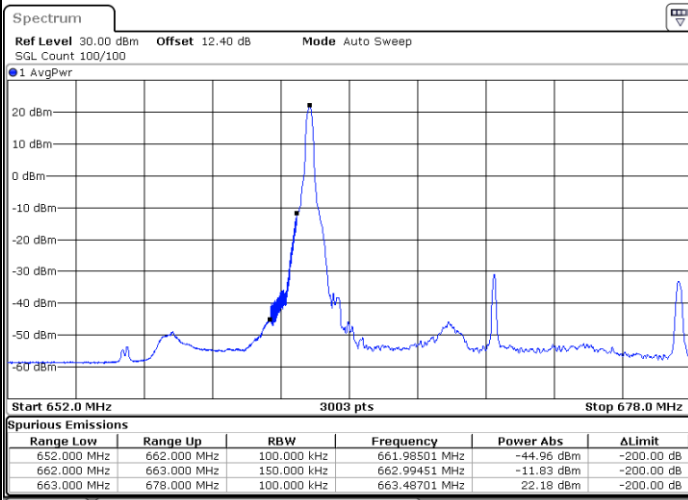
Date: 16.OCT.2020 14:53:58



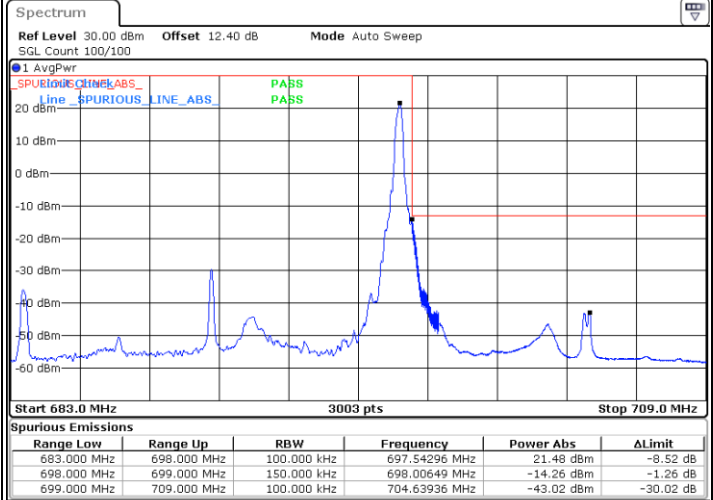
FR1 n71 / 15MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

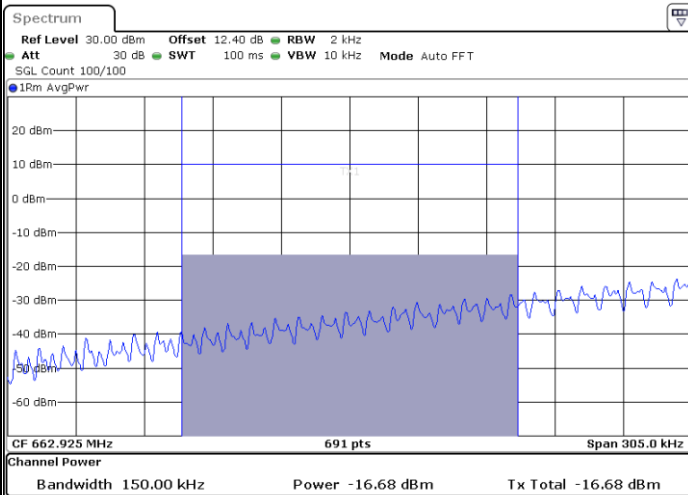


Date: 16.OCT.2020 15:40:11



Date: 16.OCT.2020 15:34:11

Channel Power -16.68dBm < -13dBm (Pass)

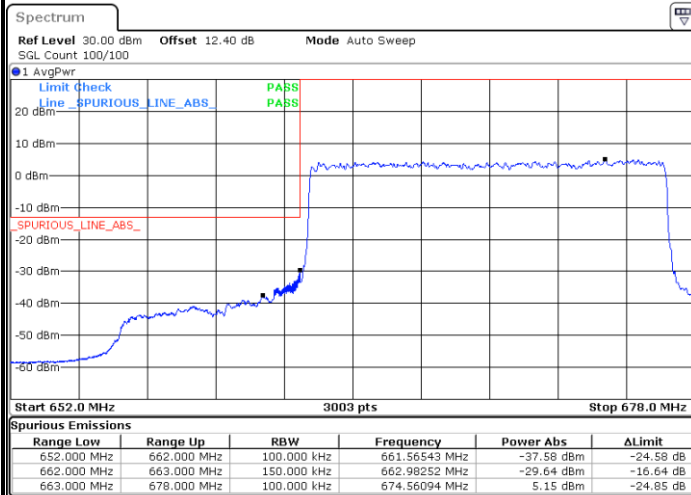


Date: 16.OCT.2020 16:33:17



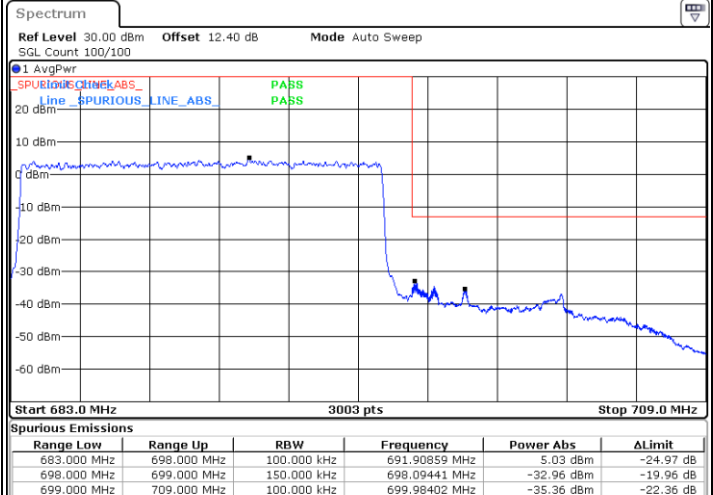
FR1 n71 / 15MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / Full RB



Date: 16.OCT.2020 15:21:33

Highest Band Edge / Full RB



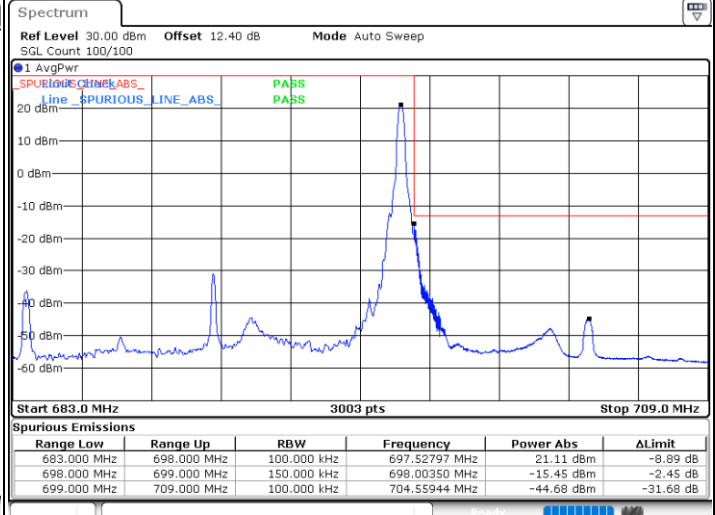
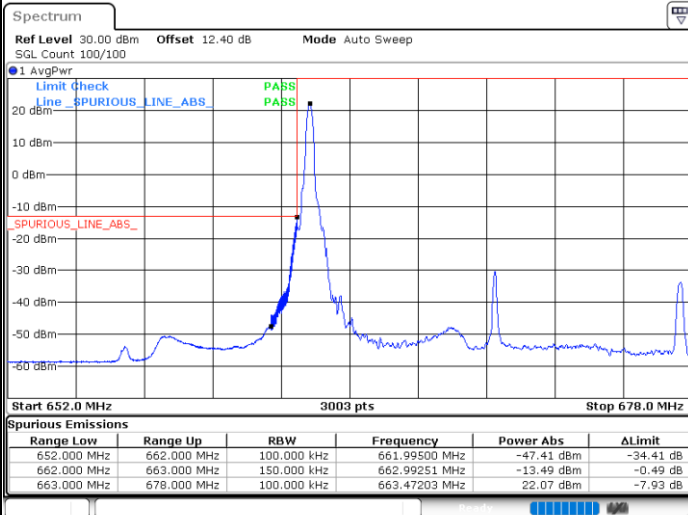
Date: 16.OCT.2020 15:23:00



FR1 n71 / 15MHz / DFT-s-OFDM / QPSK

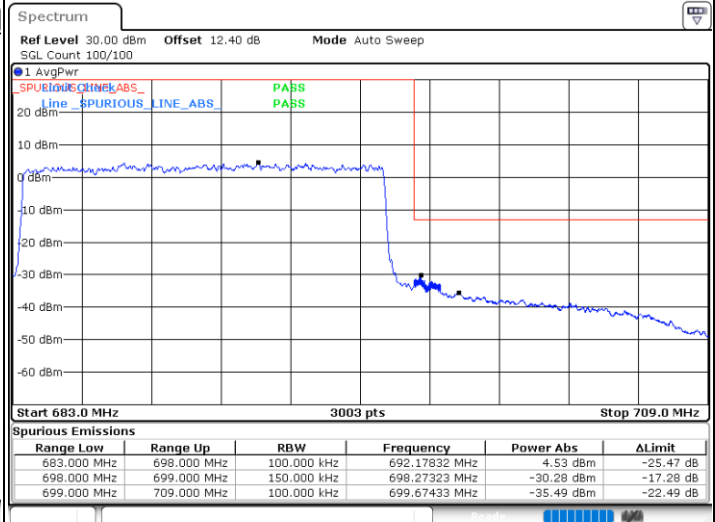
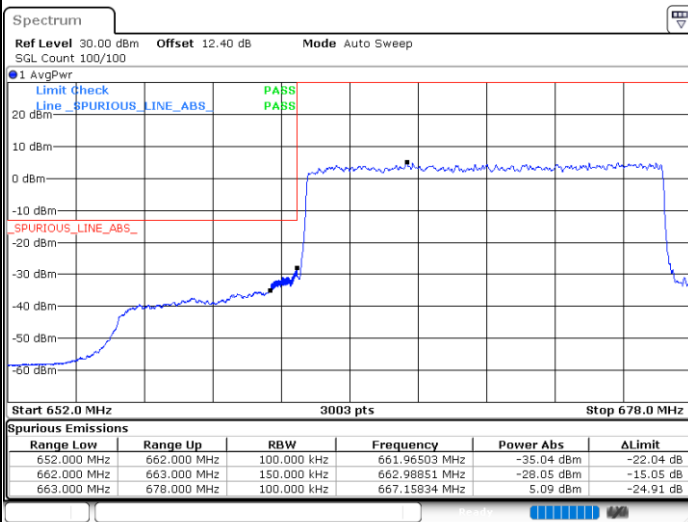
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

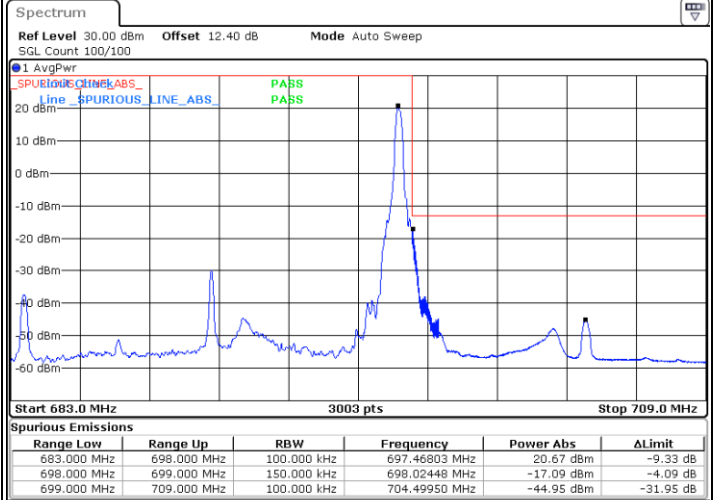
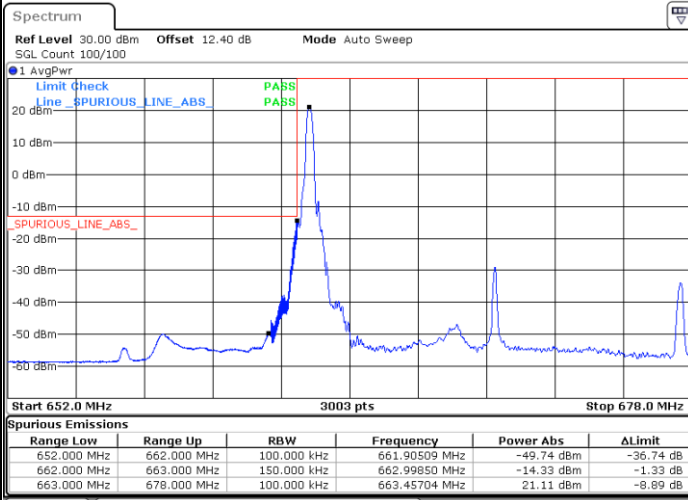




FR1 n71 / 15MHz / DFT-s-OFDM / 16QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

