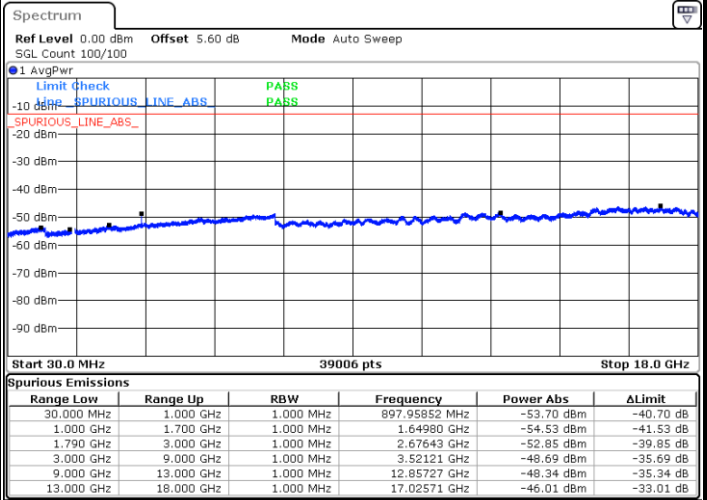
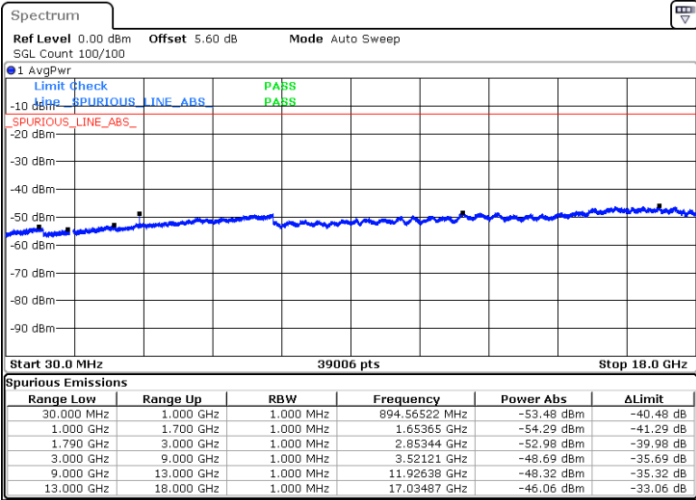




FR1 n66 / 10MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

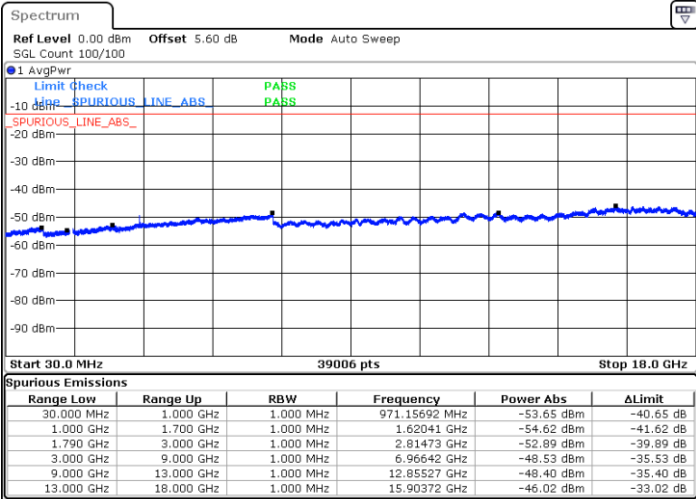
Middle Channel / 1RB1



Date: 21.DEC.2020 14:24:13

Date: 21.DEC.2020 14:24:50

Highest Channel / 1RB1

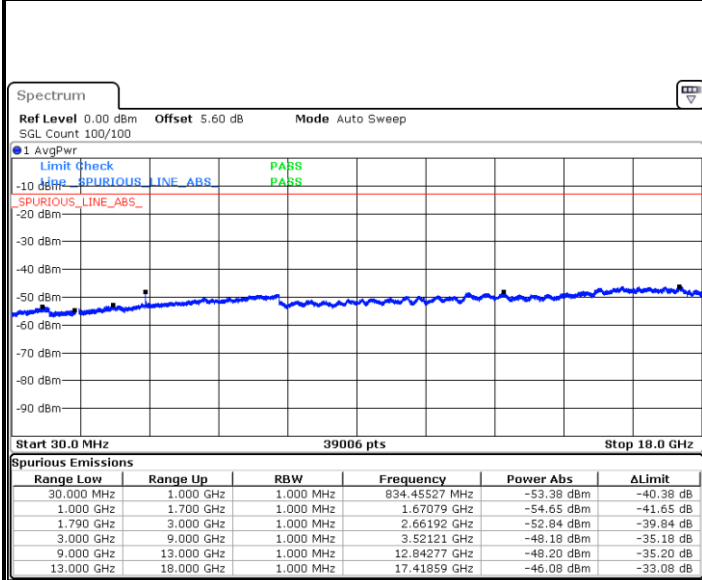


Date: 21.DEC.2020 14:25:31



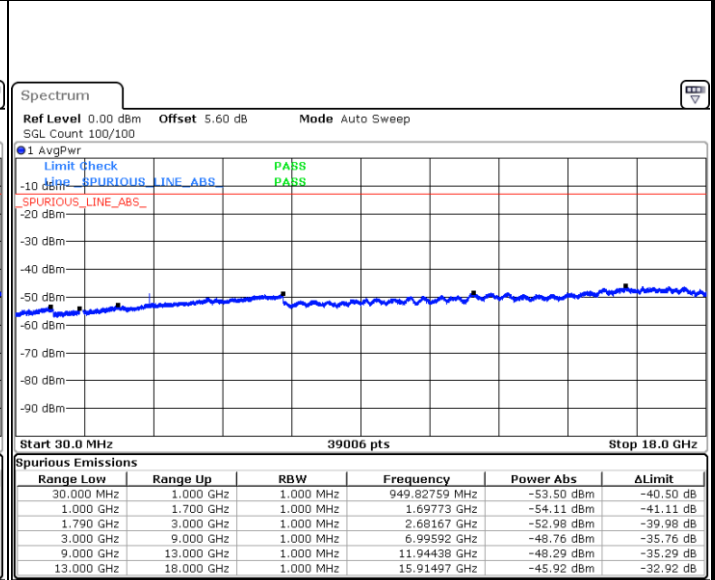
**FR1 n66 / 15MHz / DFT-S OFDM / QPSK**

**Lowest Channel / 1RB1**



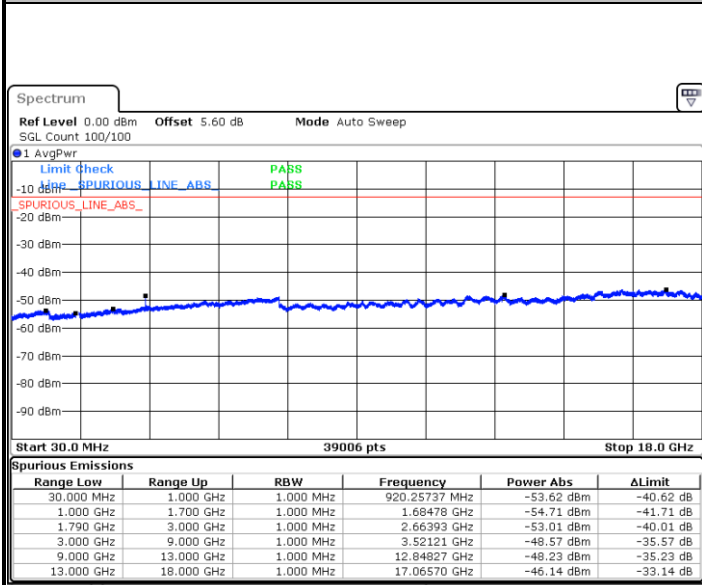
Date: 21.DEC.2020 14:26:22

**Middle Channel / 1RB1**



Date: 21.DEC.2020 14:27:01

**Highest Channel / 1RB1**



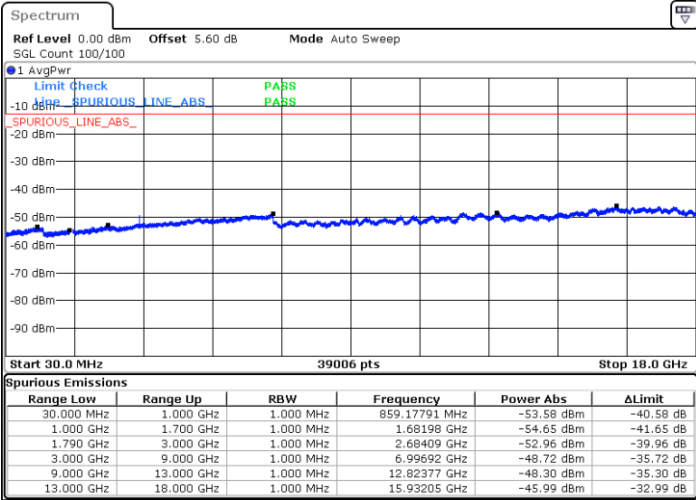
Date: 21.DEC.2020 14:27:38



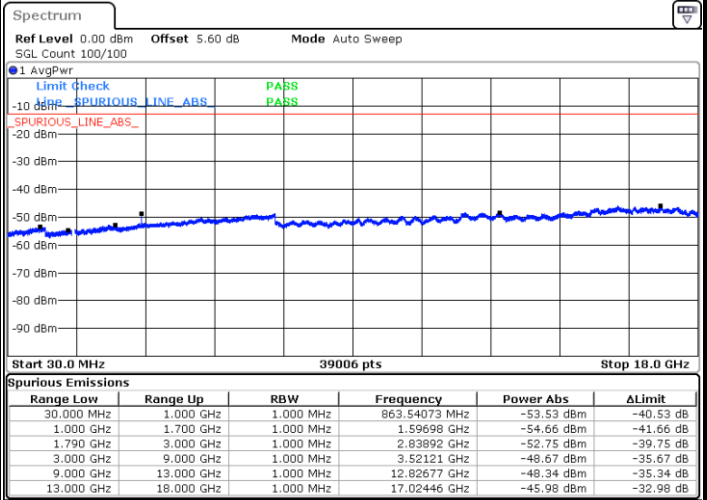
FR1 n66 / 20MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

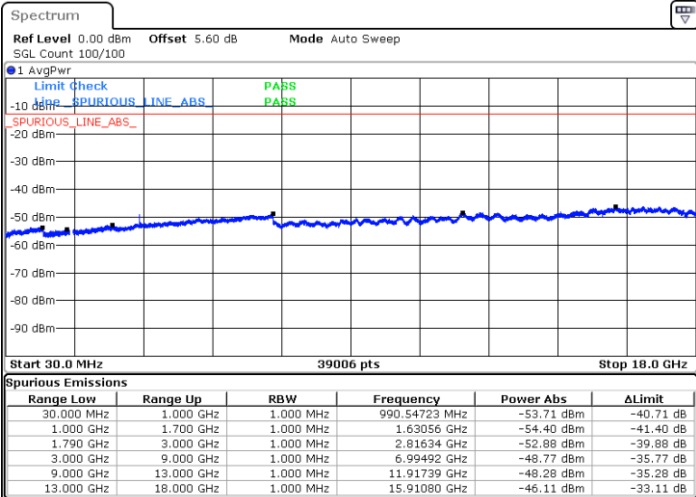


Date: 21.DEC.2020 14:28:17



Date: 21.DEC.2020 14:28:54

Highest Channel / 1RB1



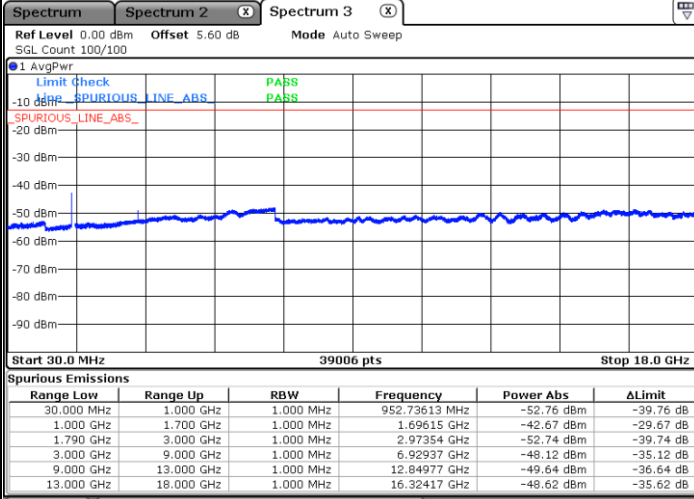
Date: 21.DEC.2020 14:29:41



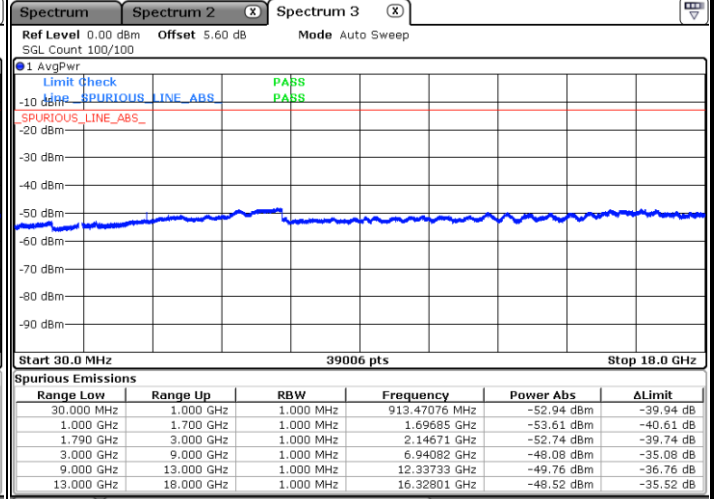
FR1 n66 / 30MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

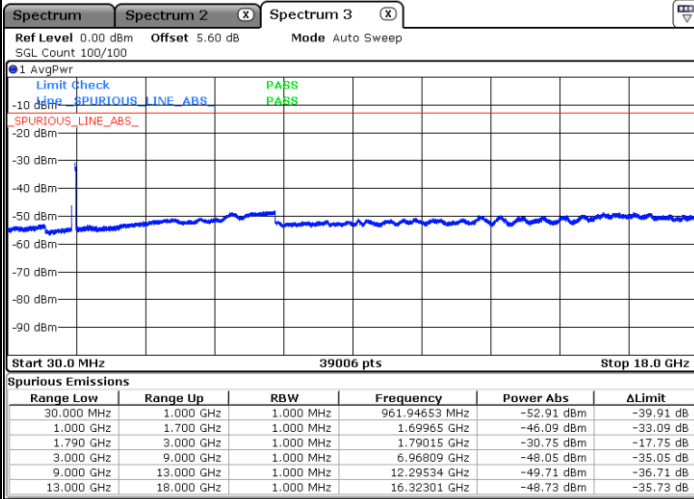


Date: 24.DEC.2020 03:48:54



Date: 24.DEC.2020 04:16:53

Highest Channel / 1RB1



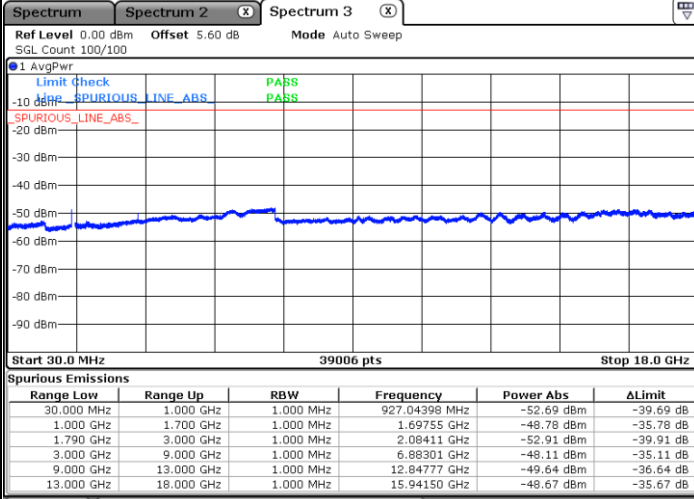
Date: 24.DEC.2020 04:04:36



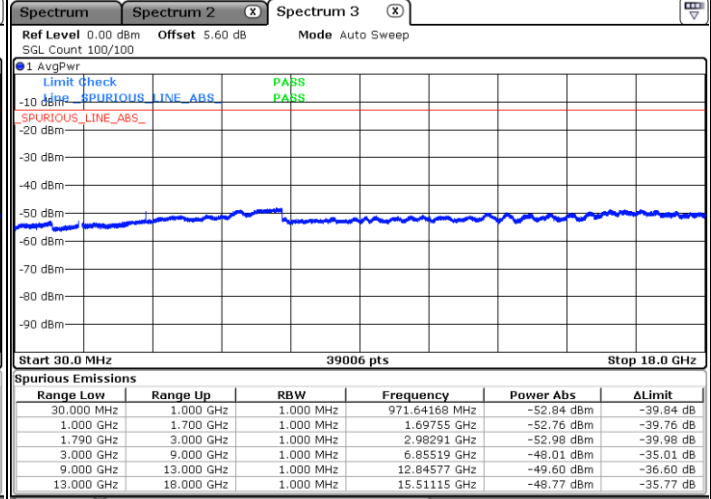
FR1 n66 / 40MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

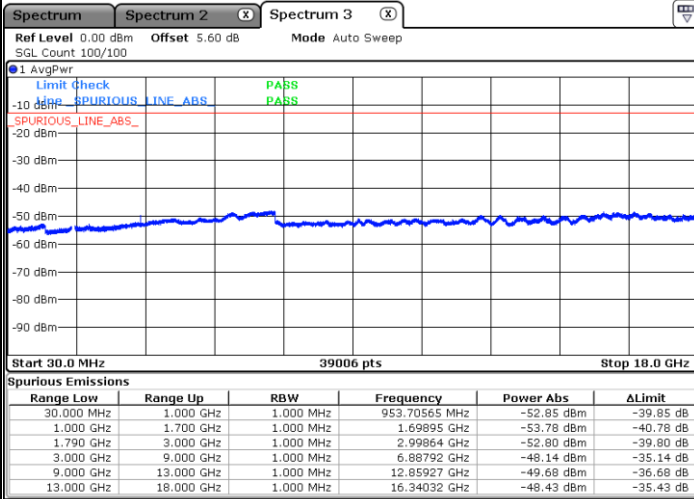


Date: 24.DEC.2020 03:04:55



Date: 24.DEC.2020 04:17:54

Highest Channel / 1RB1



Date: 24.DEC.2020 03:27:16



### Frequency Stability

Test Conditions		FR1 n66 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 40MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0002	PASS
40	Normal Voltage	0.0046	
30	Normal Voltage	0.0004	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0030	
0	Normal Voltage	0.0000	
-10	Normal Voltage	0.0006	
-20	Normal Voltage	0.0036	
-30	Normal Voltage	0.0014	
20	Maximum Voltage	0.0026	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0005	

**Note:**

1. Normal Voltage =7.74V. ; Battery End Point (BEP) =7.3 V. ; Maximum Voltage =8.7 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



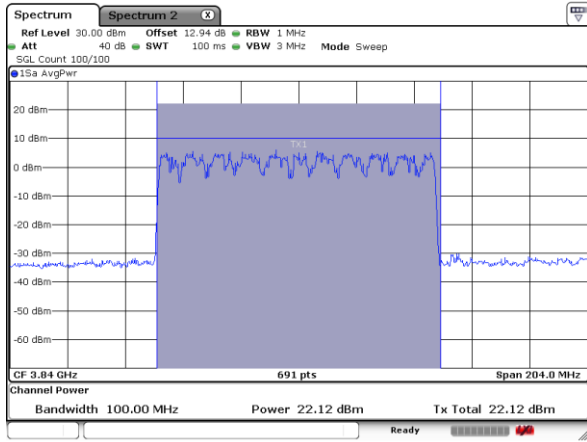
# FR1 n77

## Peak-to-Average Ratio

Mode	FR1 n77 / 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	5.28	5.14	5.21	4.98	PASS
Mode	FR1 n77 / 20MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Middle CH	5.21				PASS

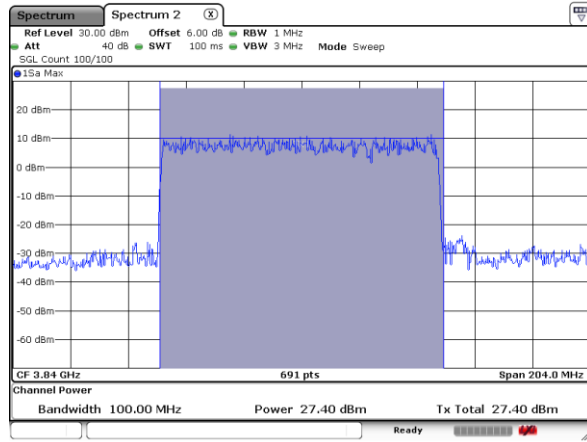


PI/2 BPSK-A



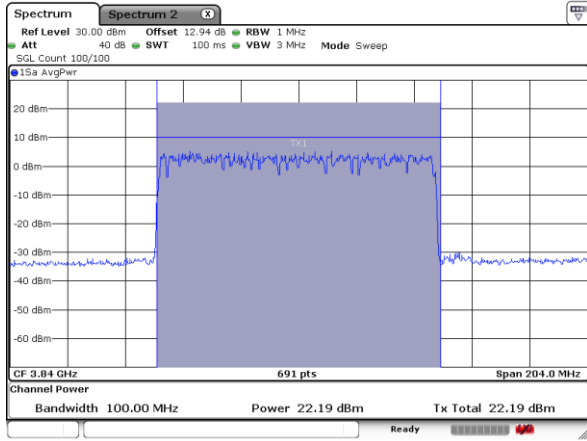
Date: 30, DEC, 2020 03:08:16

PI/2 BPSK-P



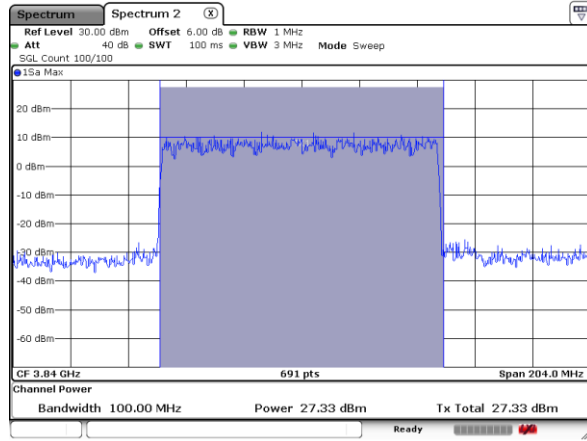
Date: 30, DEC, 2020 03:10:07

QPSK-A



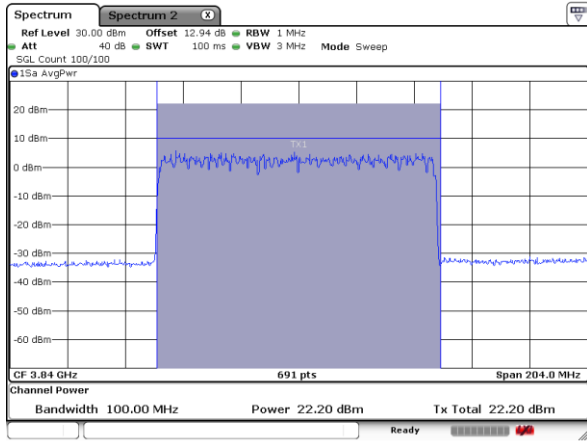
Date: 30, DEC, 2020 03:09:53

QPSK-P



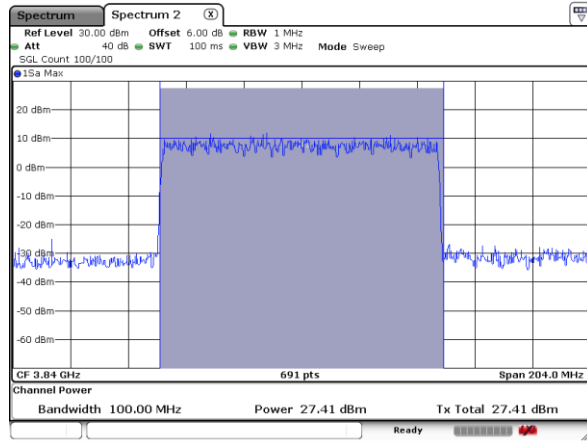
Date: 30, DEC, 2020 03:10:27

16QAM-A



Date: 30, DEC, 2020 03:11:30

16QAM-P

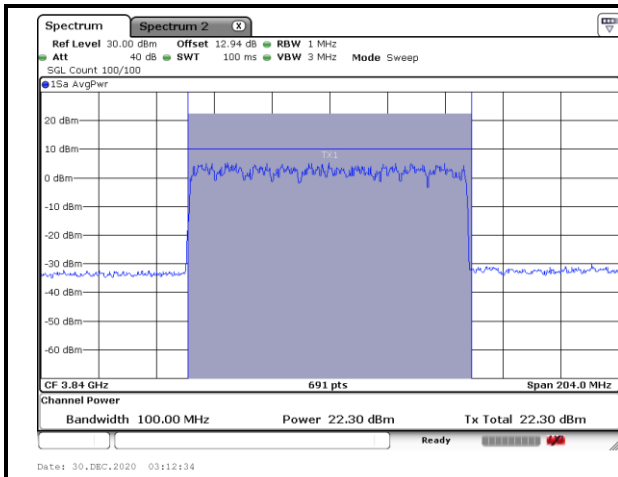


Date: 30, DEC, 2020 03:11:54

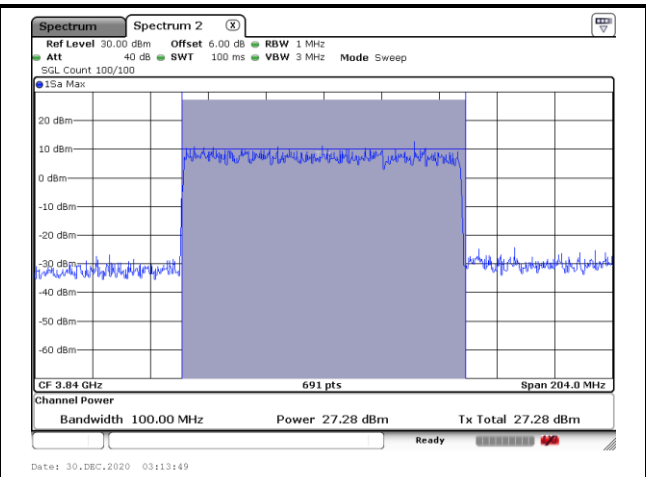
64QAM-A

64QAM-P

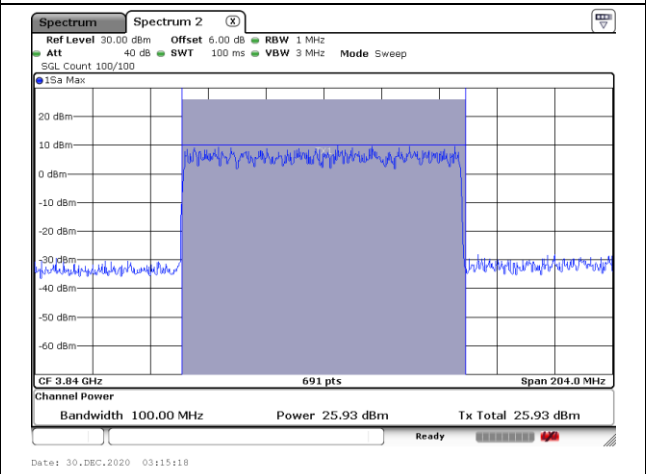
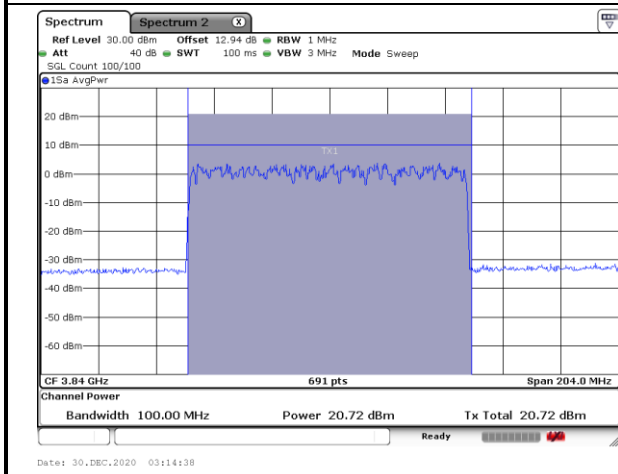




256QAM-A



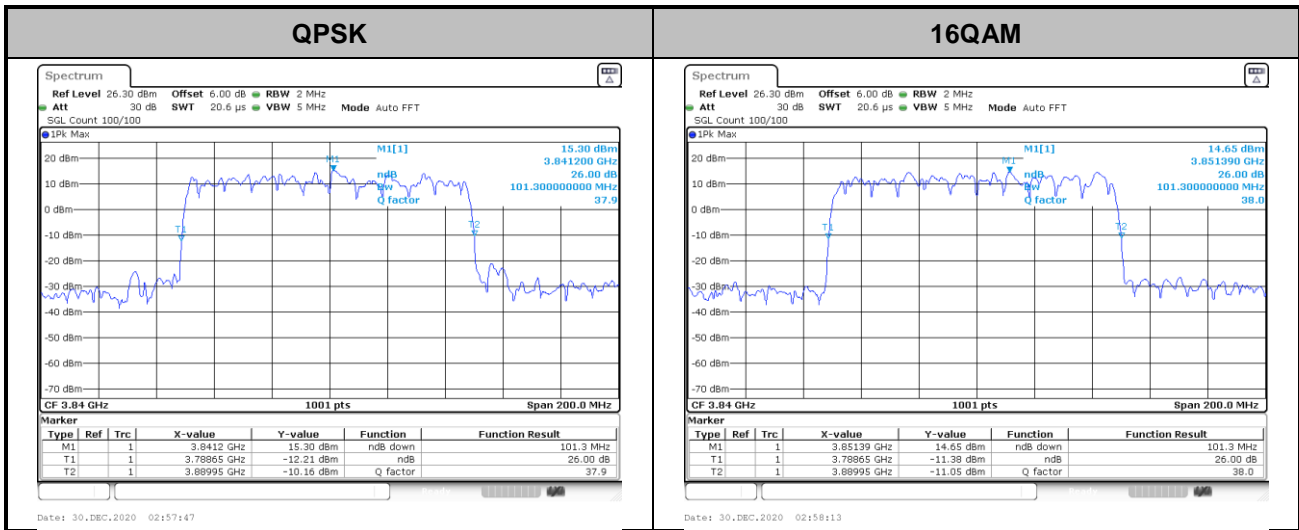
256QAM-P





**26dB Bandwidth**

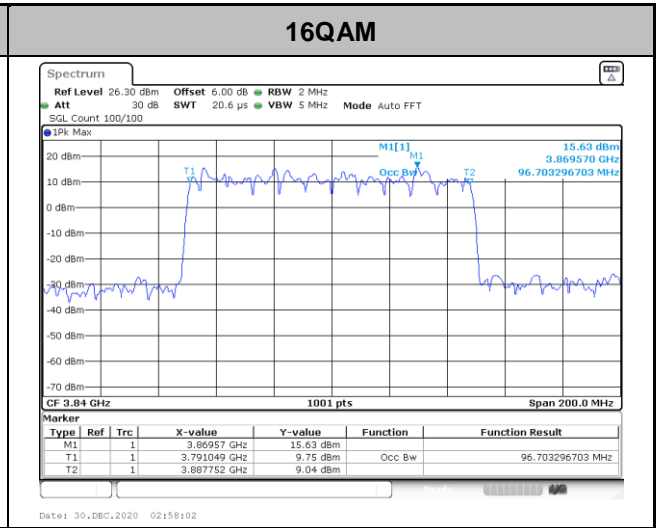
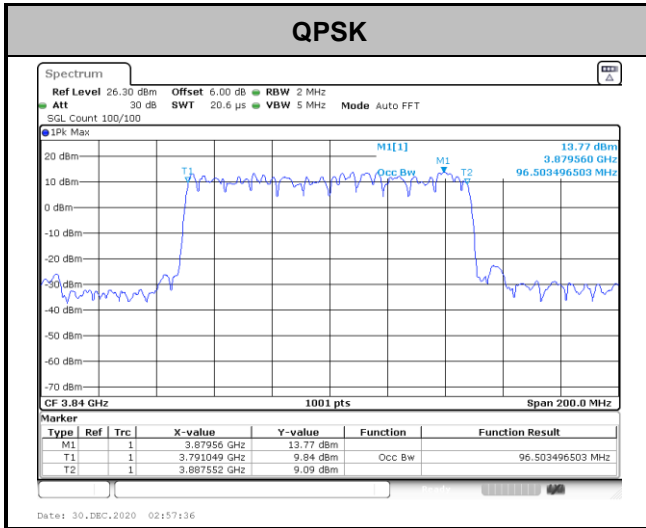
Mode	FR1 n77 : 26dB BW(MHz) / DFT-S OFDM						
BW	100M						
Mod.	QPSK	16QAM					
Middle CH	101.3	101.3					





## Occupied Bandwidth

<b>Mode</b>	<b>FR1 n77 : OB BW(MHz) / DFT-S OFDM</b>						
<b>BW</b>	<b>100M</b>						
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>					
<b>Middle CH</b>	96.503	96.703					





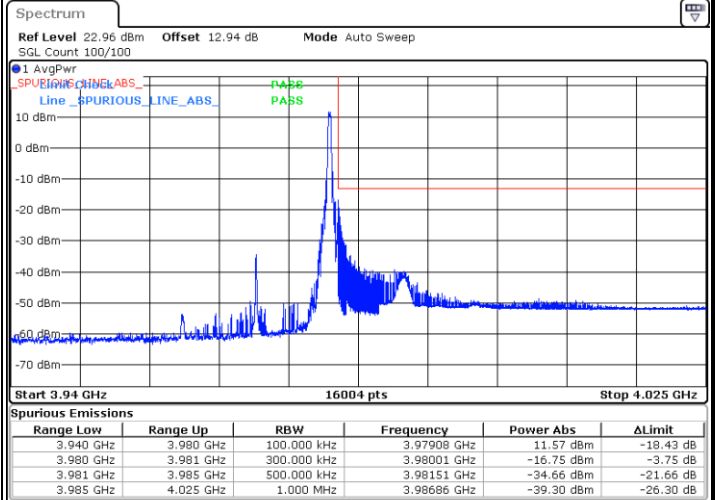
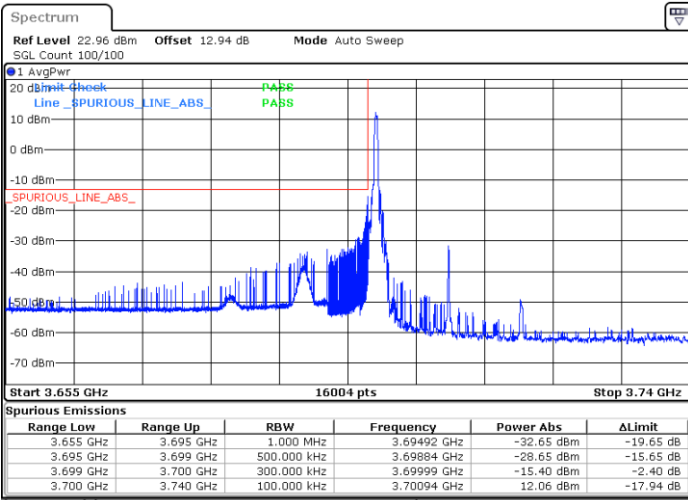
**Conducted Band Edge**



FR1 n77 / 20MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

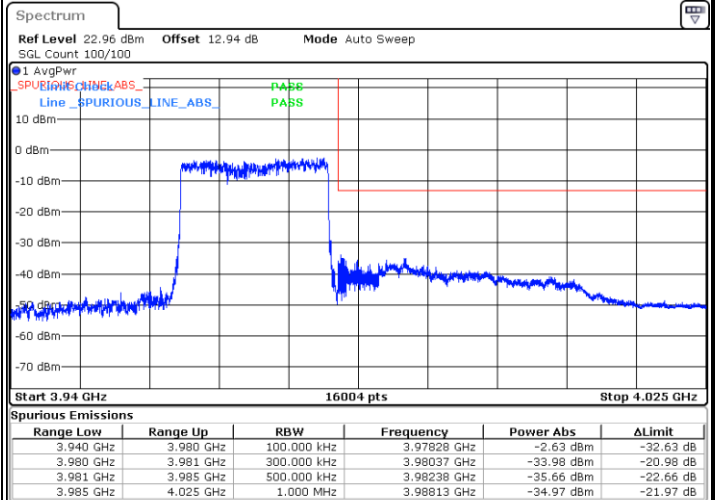
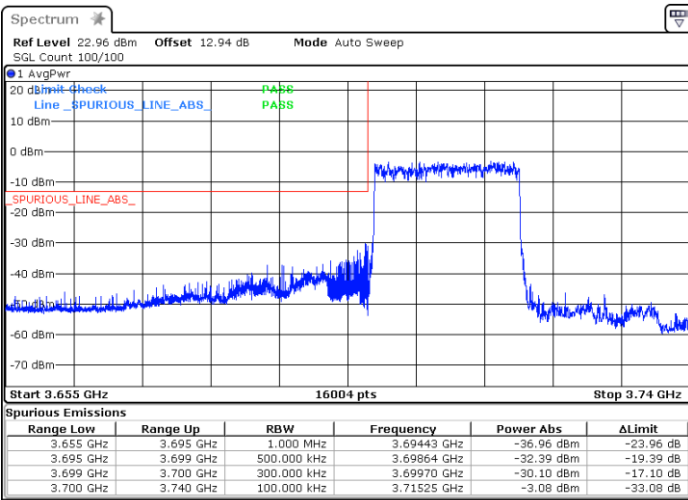


Date: 26 DEC 2020 09:49:22

Date: 26 DEC 2020 09:53:46

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 26 DEC 2020 09:45:08

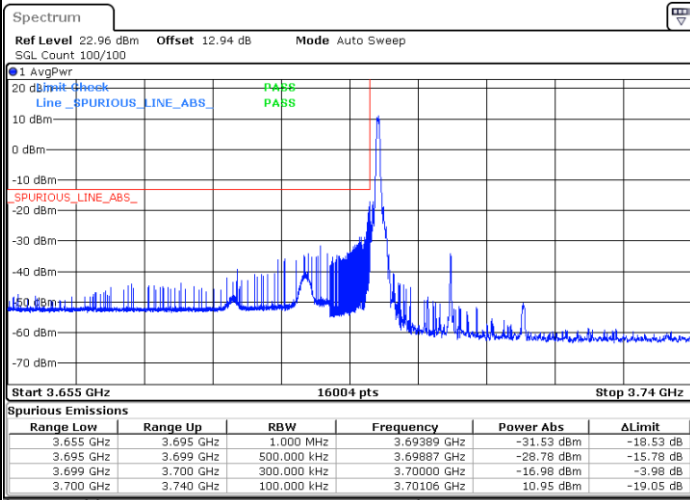
Date: 26 DEC 2020 09:51:29



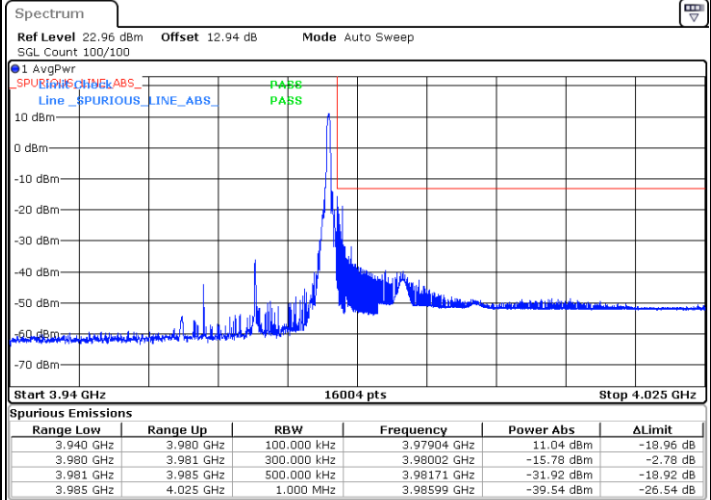
FR1 n77 / 20MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



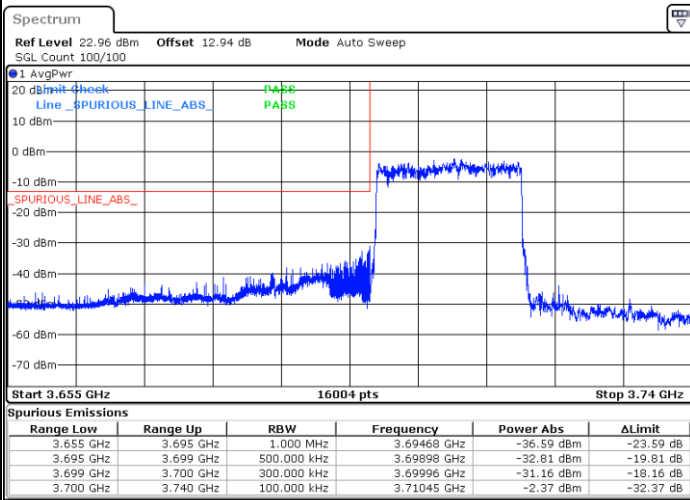
Date: 26 DEC 2020 09:49:37



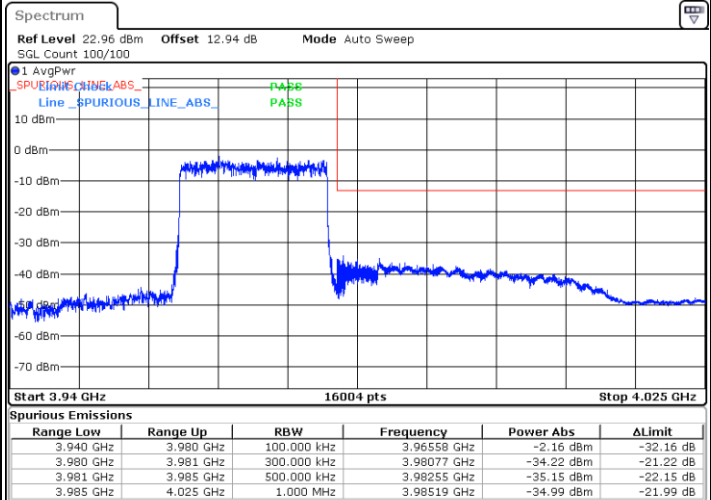
Date: 26 DEC 2020 09:54:15

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 26 DEC 2020 09:46:29



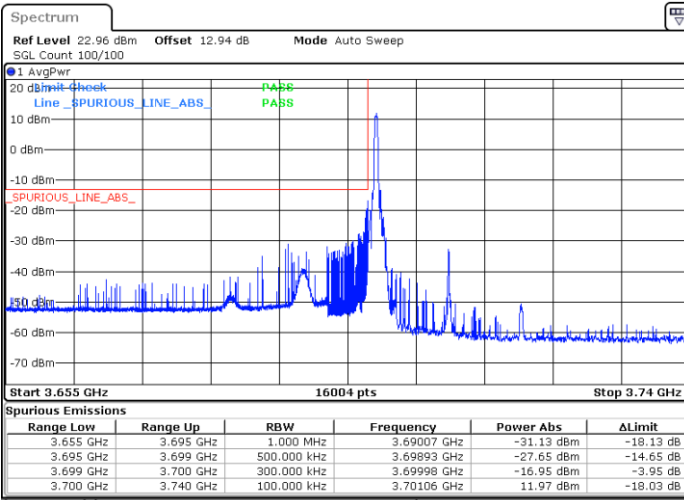
Date: 26 DEC 2020 09:51:50



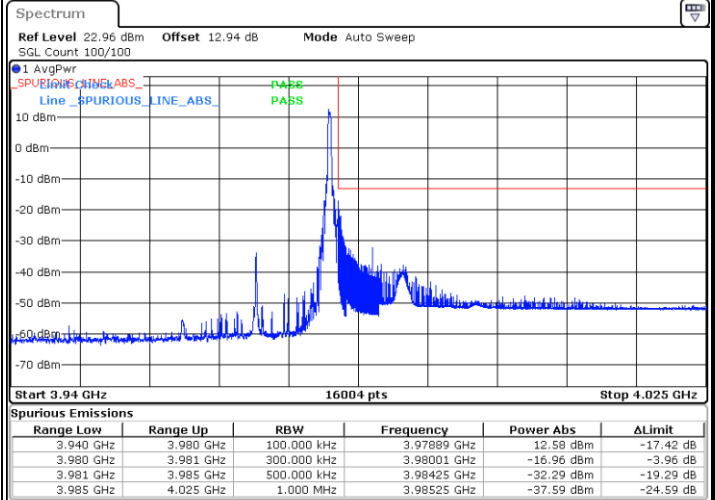
FR1 n77 / 20MHz / DFT-S OFDM / 16QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



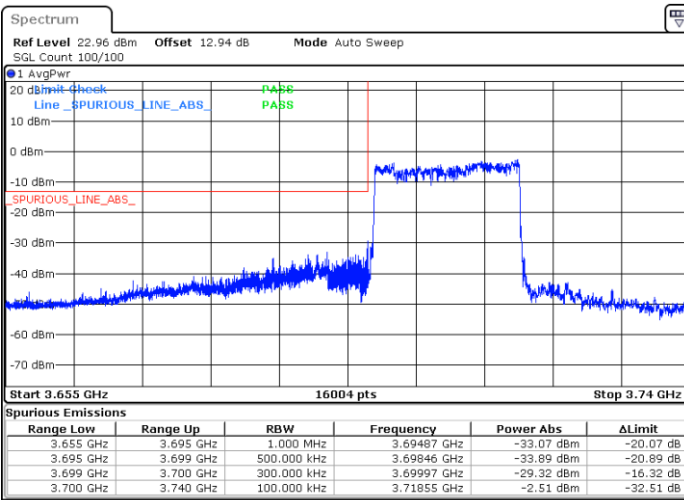
Date: 26 DEC 2020 09:49:53



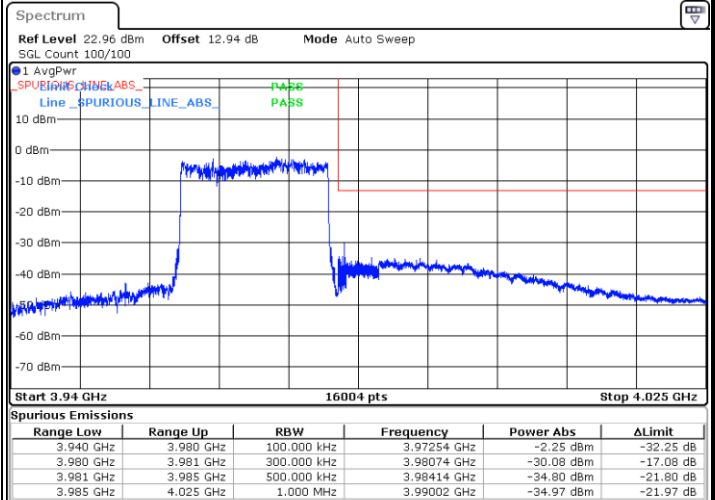
Date: 26 DEC 2020 09:54:37

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 26 DEC 2020 09:47:41



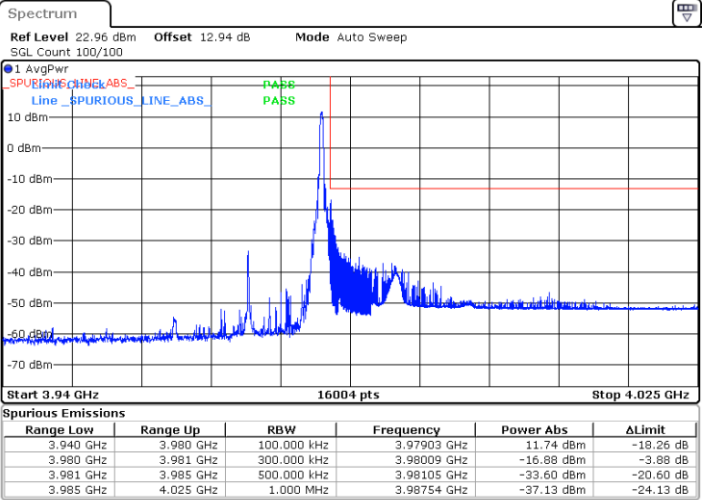
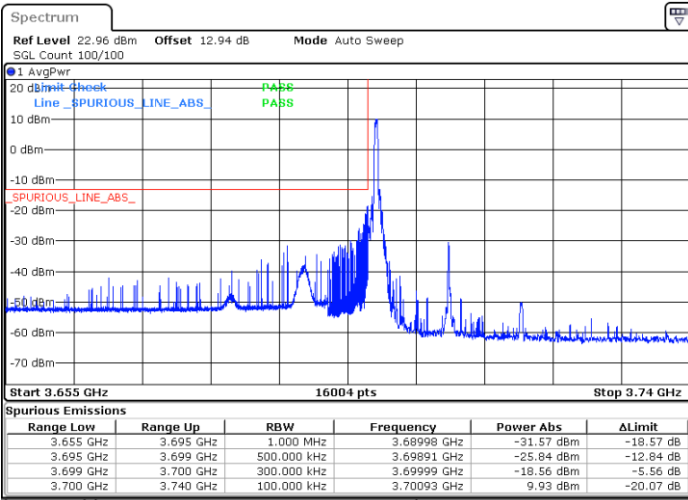
Date: 26 DEC 2020 09:52:15



FR1 n77 / 20MHz / DFT-S OFDM / 64QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

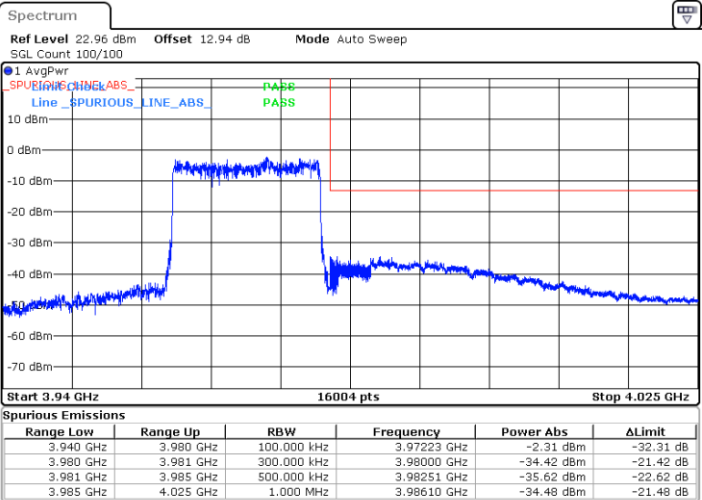
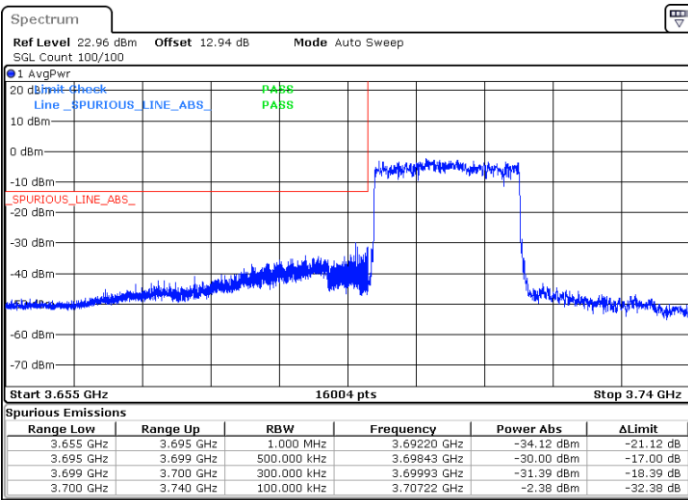


Date: 26 DEC 2020 09:50:09

Date: 26 DEC 2020 09:54:58

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 26 DEC 2020 09:48:26

Date: 26 DEC 2020 09:52:36

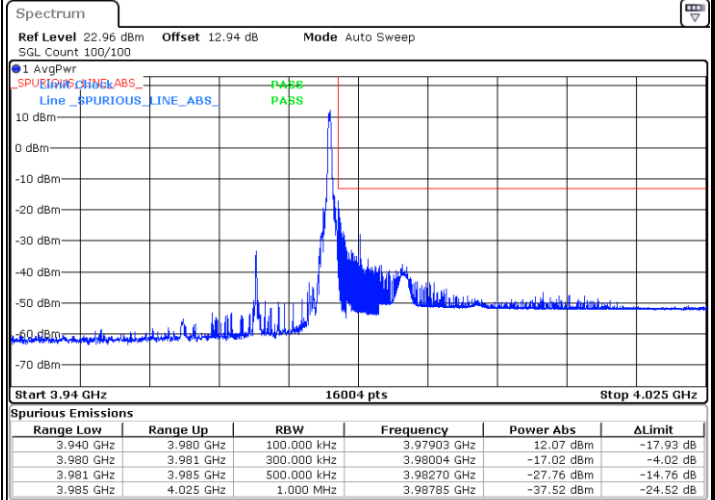
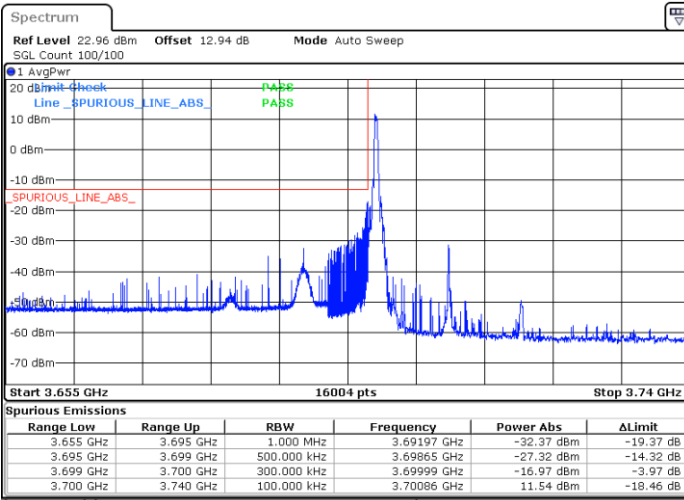




FR1 n77 / 20MHz / DFT-S OFDM / 256QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

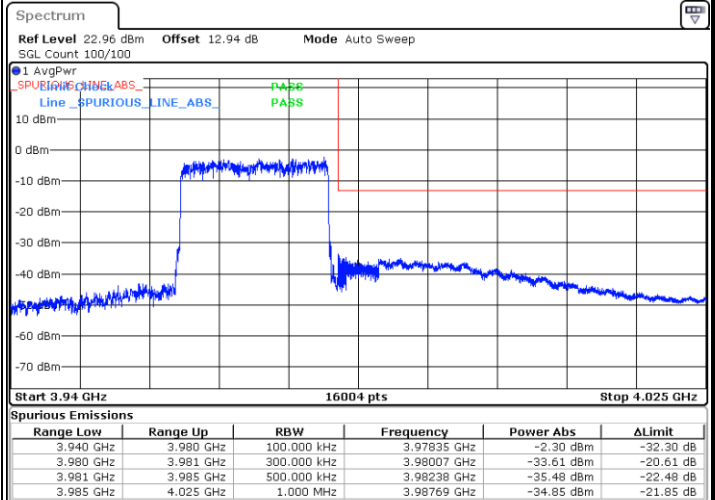
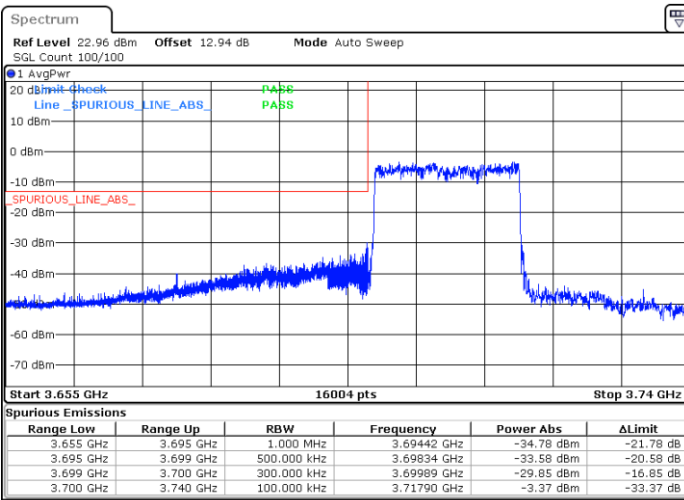


Date: 26 DEC 2020 09:50:23

Date: 26 DEC 2020 09:56:24

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 26 DEC 2020 09:48:43

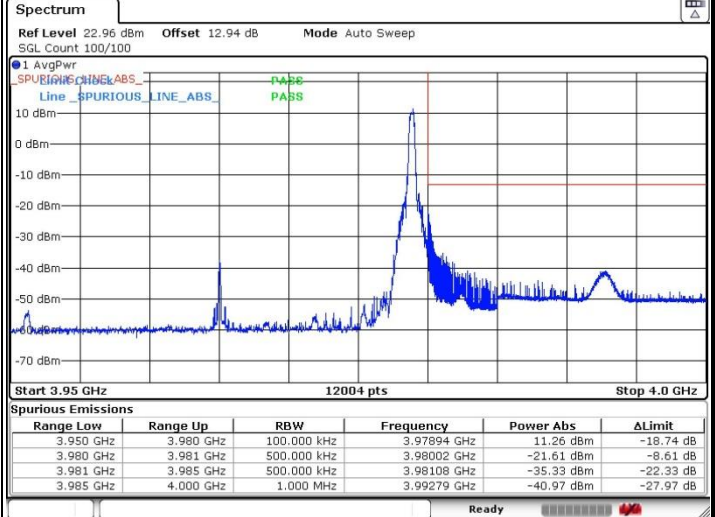
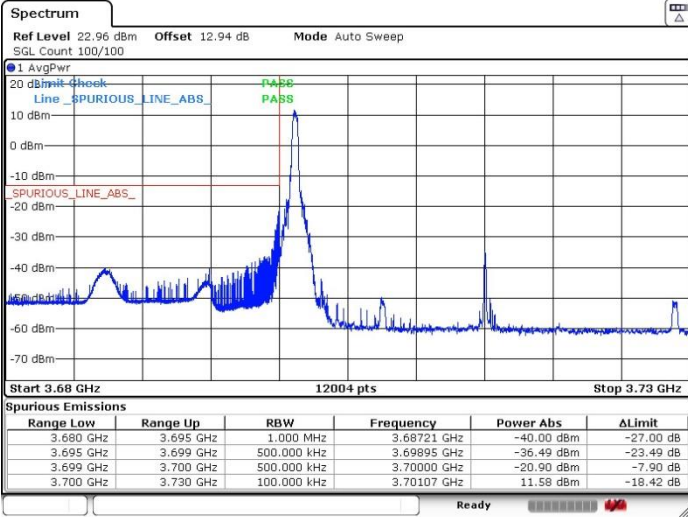
Date: 26 DEC 2020 09:53:09



FR1 n77 / 30MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

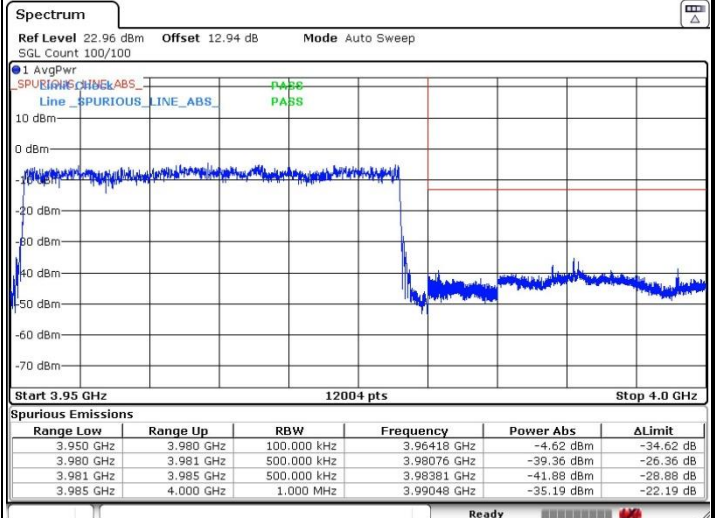
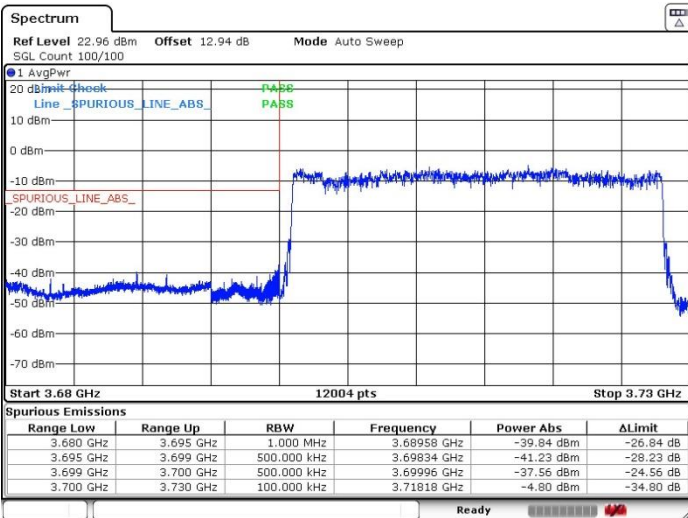


Date: 30.DEC.2020 00:42:47

Date: 30.DEC.2020 01:08:40

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 30.DEC.2020 00:39:38

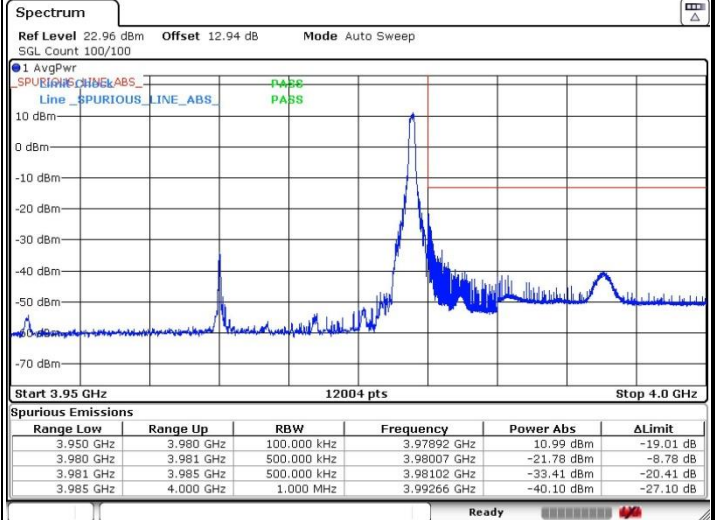
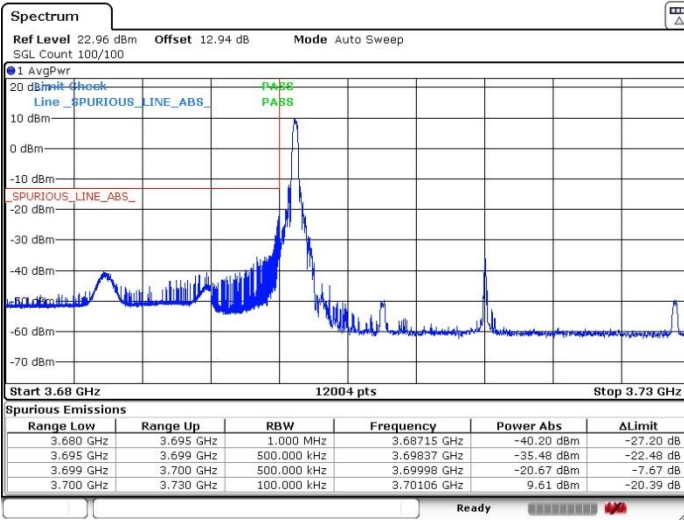
Date: 30.DEC.2020 01:06:26



FR1 n77 / 30MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

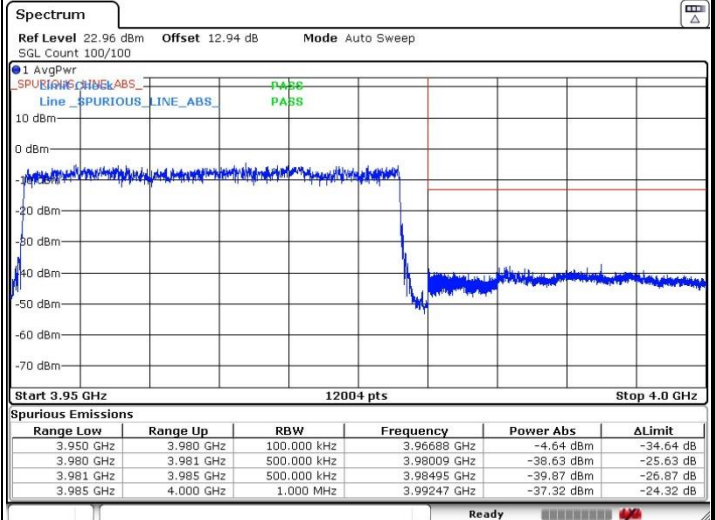
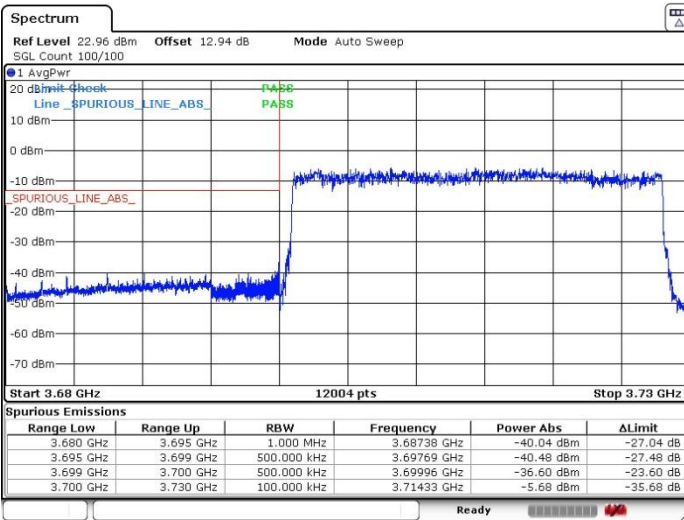


Date: 30.DEC.2020 00:43:11

Date: 30.DEC.2020 01:09:04

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 30.DEC.2020 00:40:16

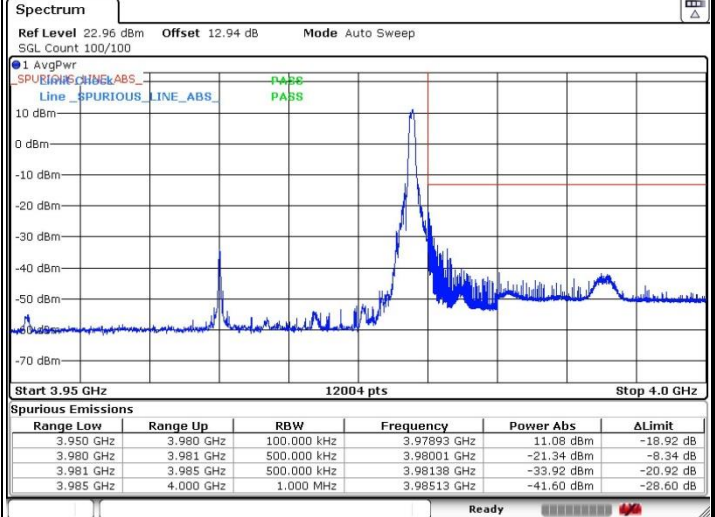
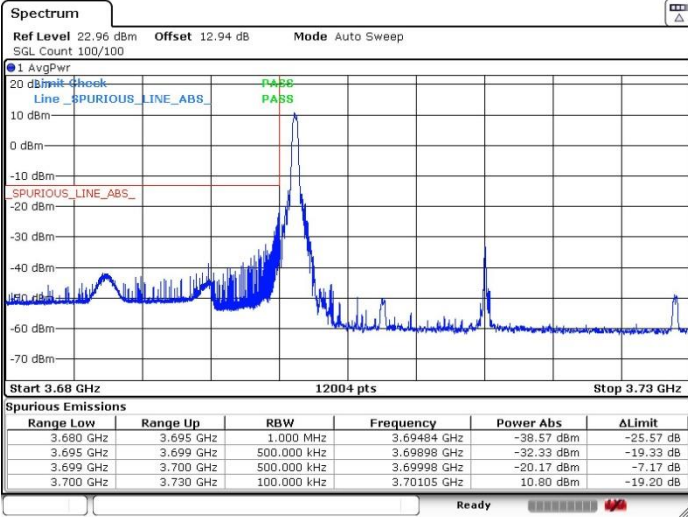
Date: 30.DEC.2020 01:07:00



FR1 n77 / 30MHz / DFT-S OFDM / 16QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

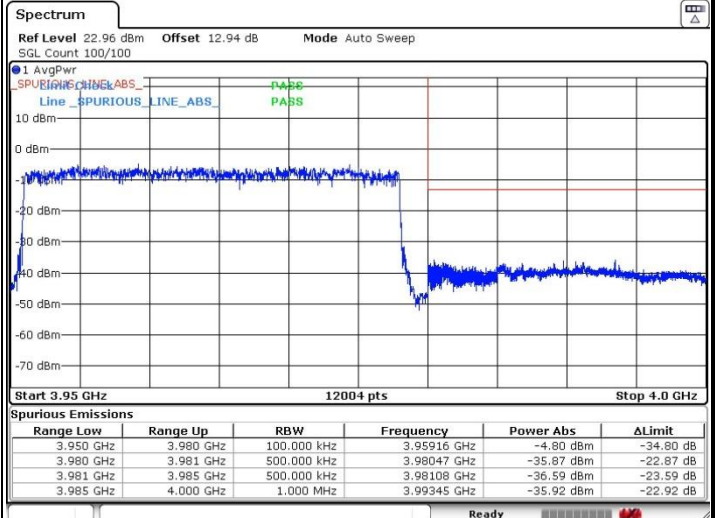
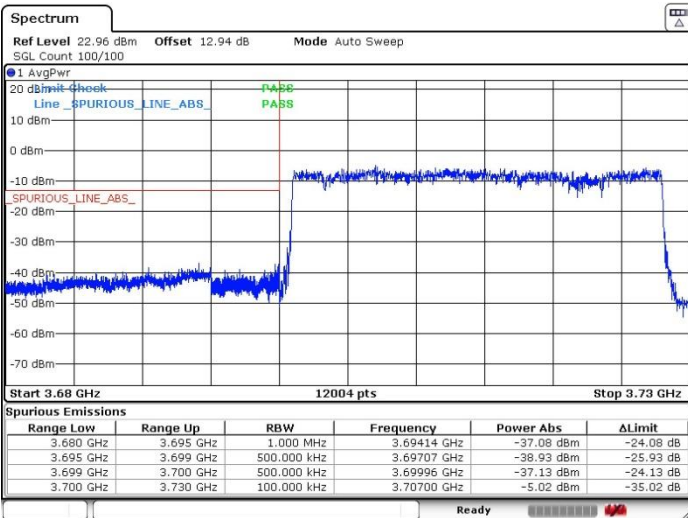


Date: 30.DEC.2020 00:43:30

Date: 30.DEC.2020 01:09:34

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 30.DEC.2020 00:40:45

Date: 30.DEC.2020 01:07:20

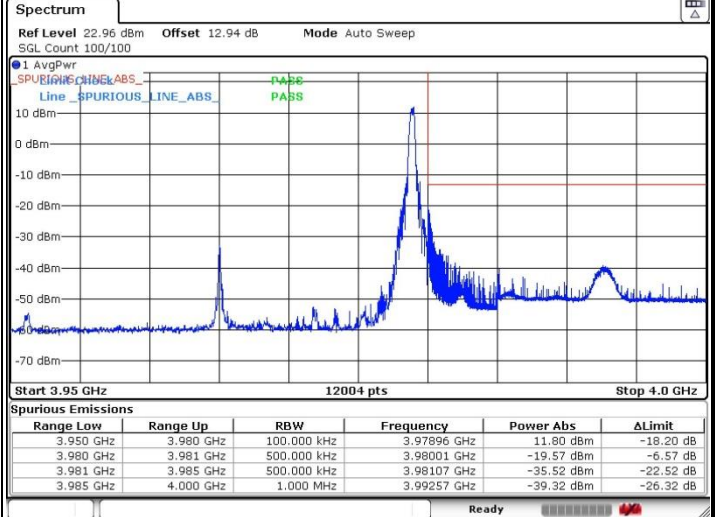
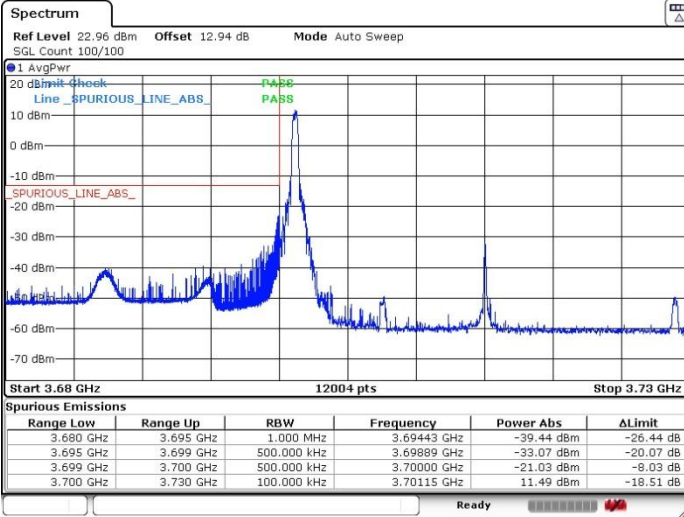




FR1 n77 / 30MHz / DFT-S OFDM / 64QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

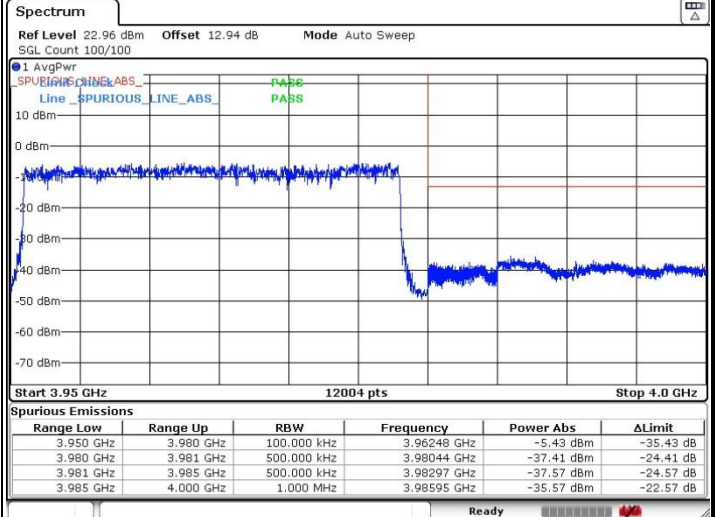
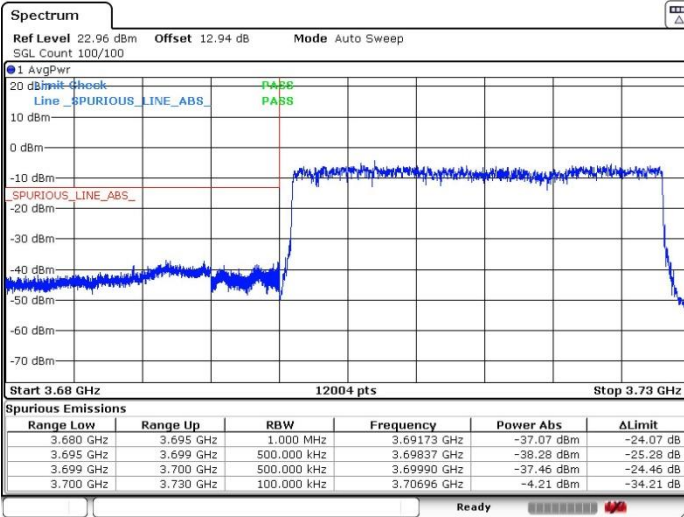


Date: 30.DEC.2020 00:43:56

Date: 30.DEC.2020 01:09:51

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 30.DEC.2020 00:41:56

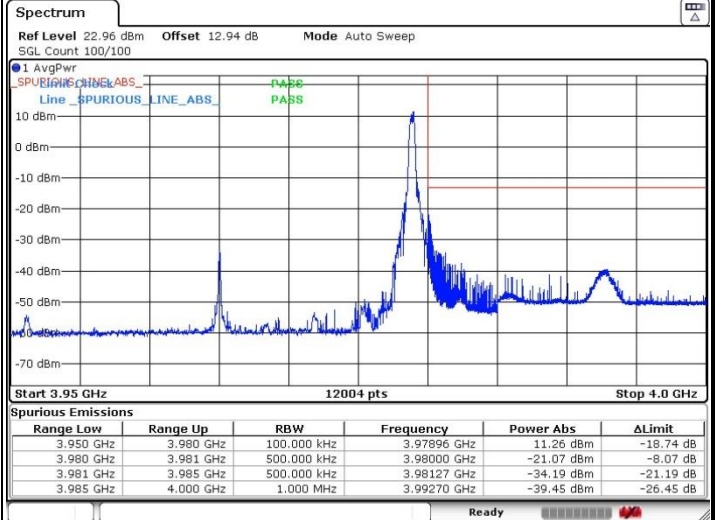
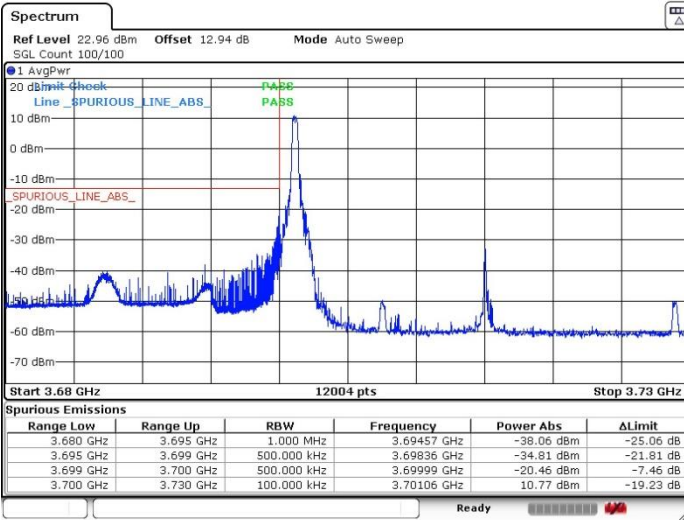
Date: 30.DEC.2020 01:07:38



FR1 n77 / 30MHz / DFT-S OFDM / 256QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

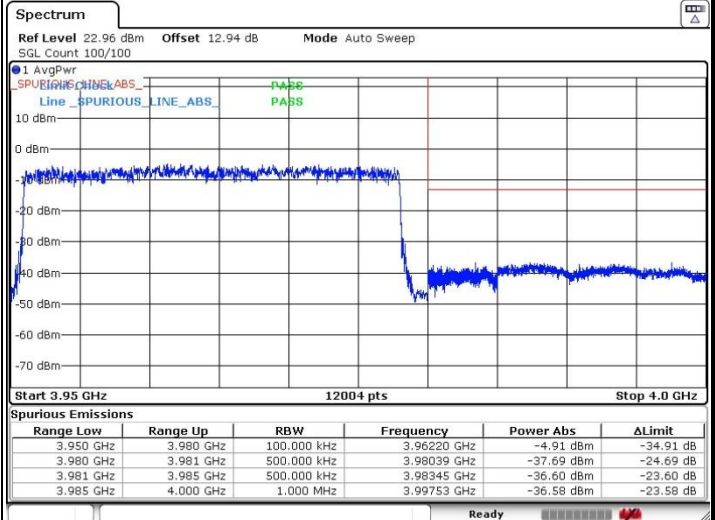
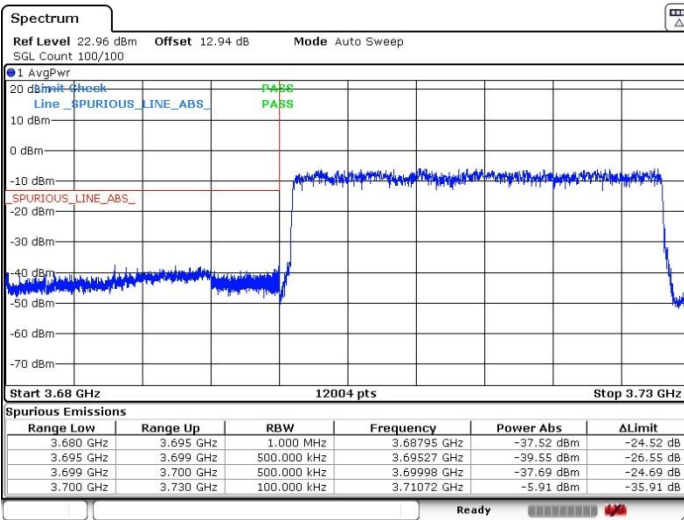


Date: 30.DEC.2020 00:44:14

Date: 30.DEC.2020 01:10:05

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 30.DEC.2020 00:42:19

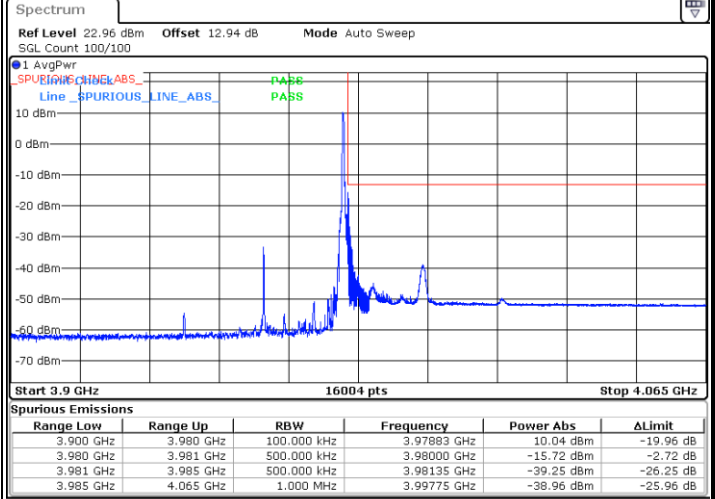
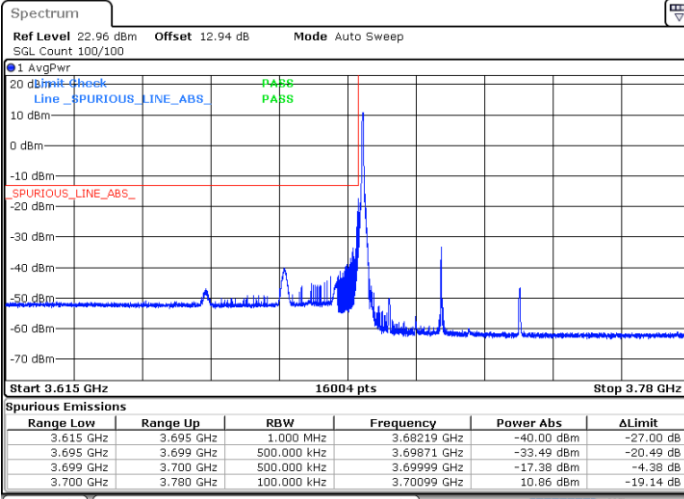
Date: 30.DEC.2020 01:08:03



FR1 n77 / 40MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

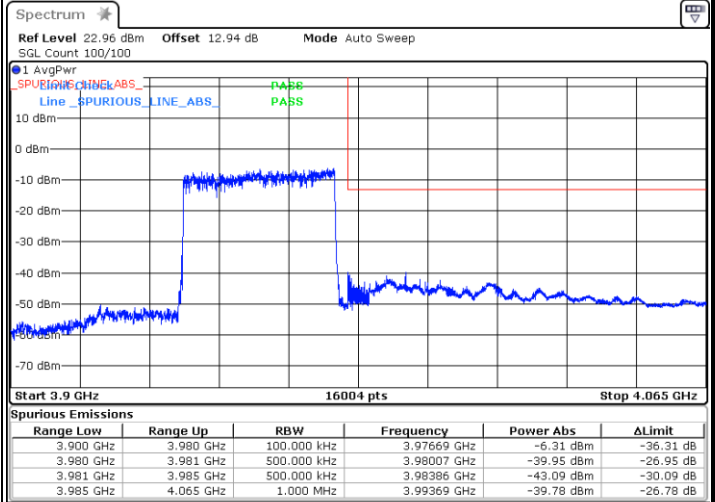
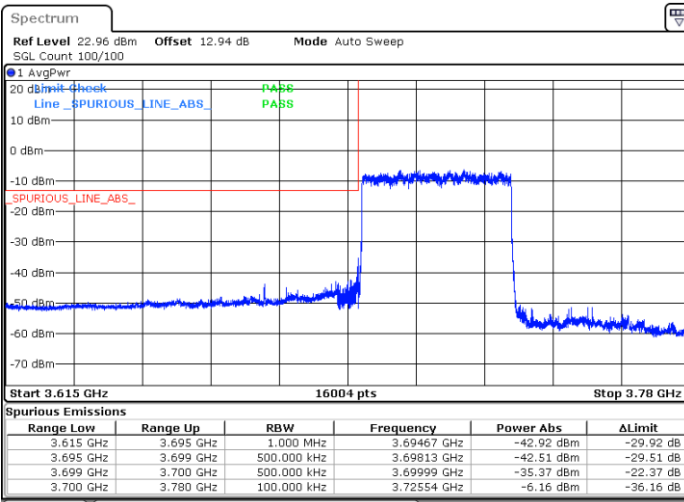


Date: 26 DEC 2020 10:07:28

Date: 26 DEC 2020 10:24:30

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 26 DEC 2020 09:57:52

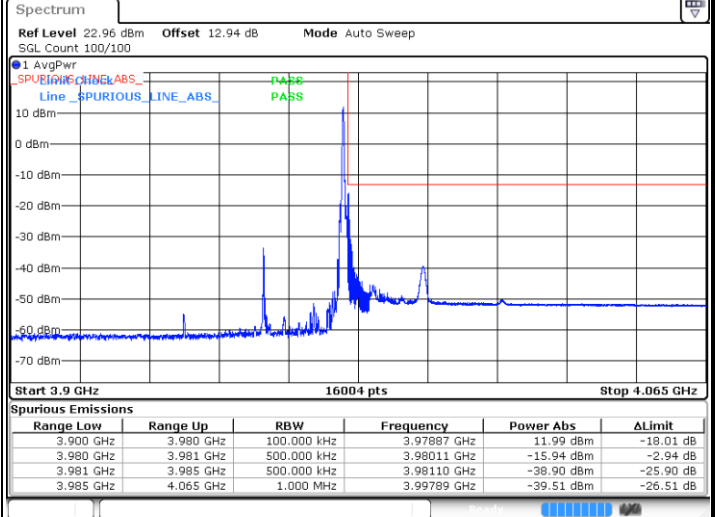
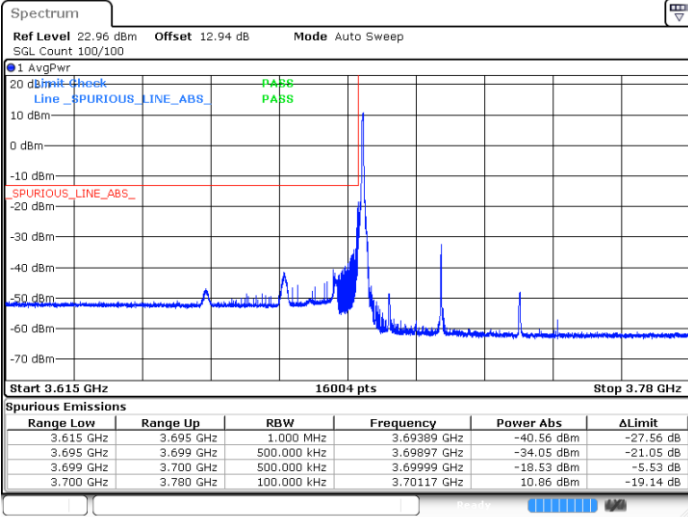
Date: 26 DEC 2020 10:20:32



FR1 n77 / 40MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

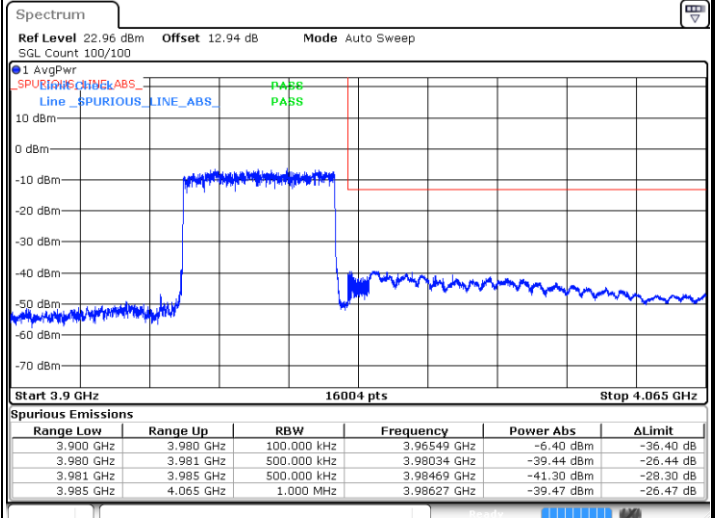
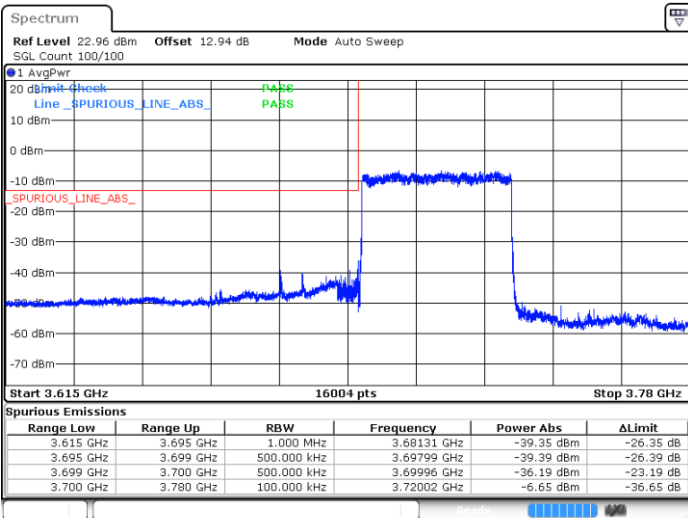


Date: 26 DEC 2020 10:07:51

Date: 26 DEC 2020 10:24:59

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 26 DEC 2020 09:58:13

Date: 26 DEC 2020 10:21:05

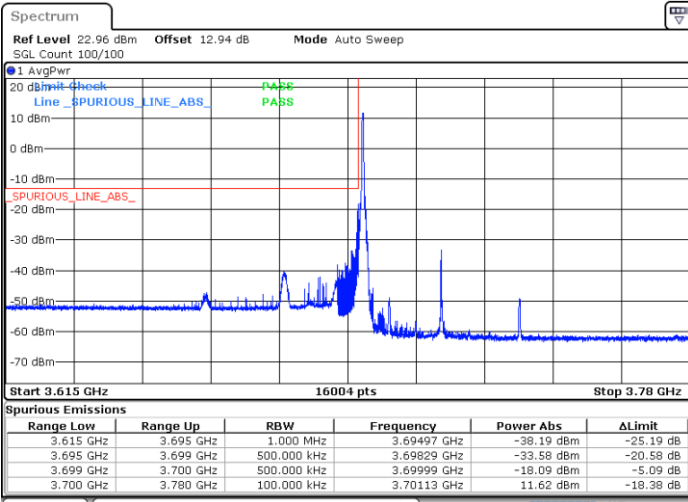




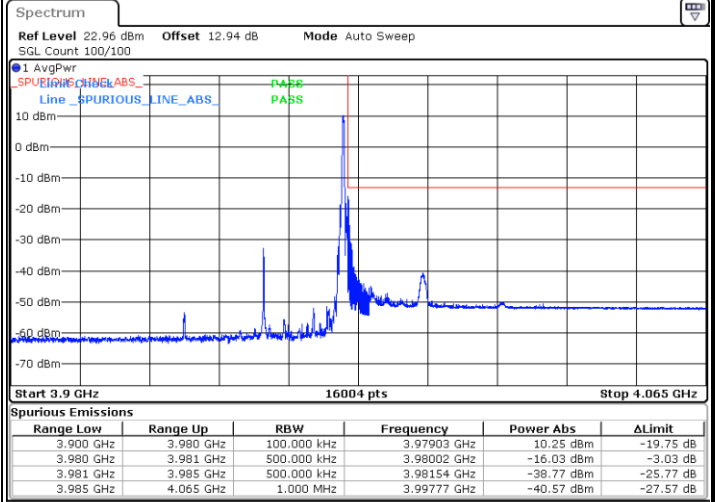
FR1 n77 / 40MHz / DFT-S OFDM / 16QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



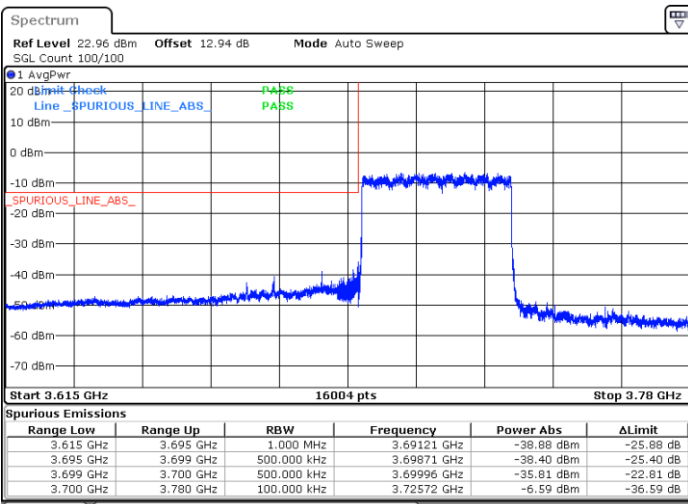
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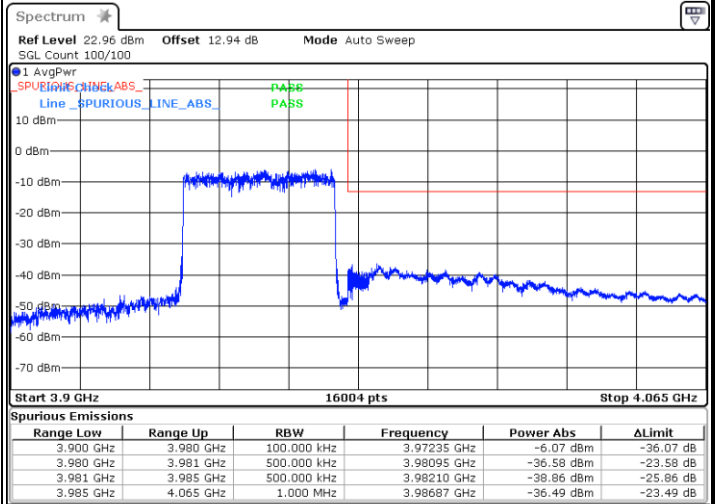
Date: 26 DEC 2020 10:25:23

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 26 DEC 2020 09:58:37



Date: 26 DEC 2020 10:21:38