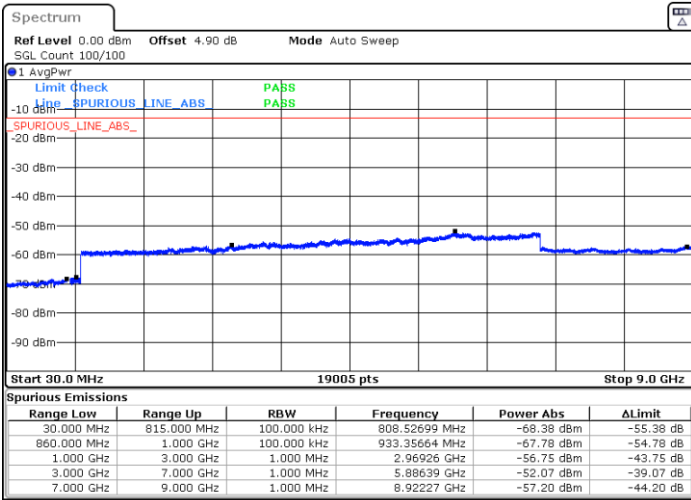




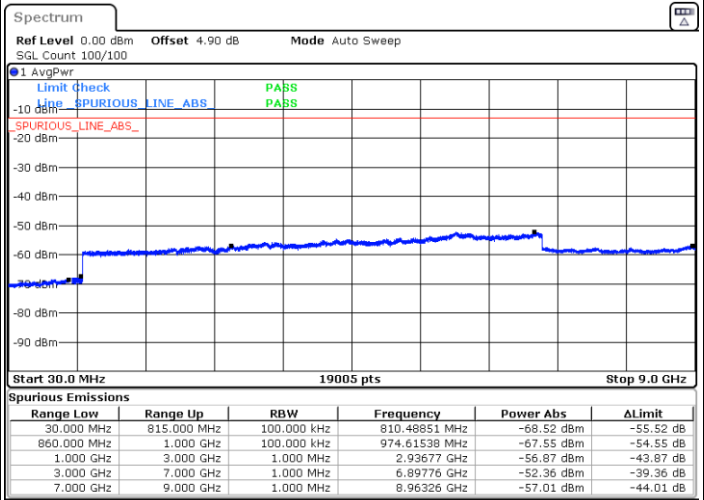
FR1 n5 / 10MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

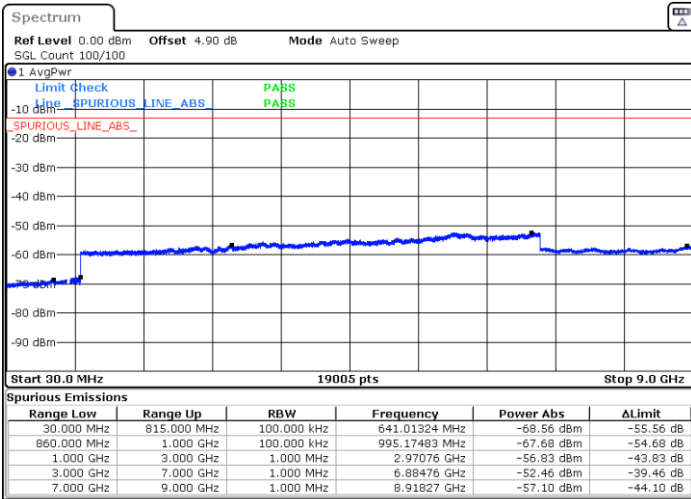


Date: 1.APR.2021 16:28:37



Date: 1.APR.2021 16:29:53

Highest Channel / 1RB1



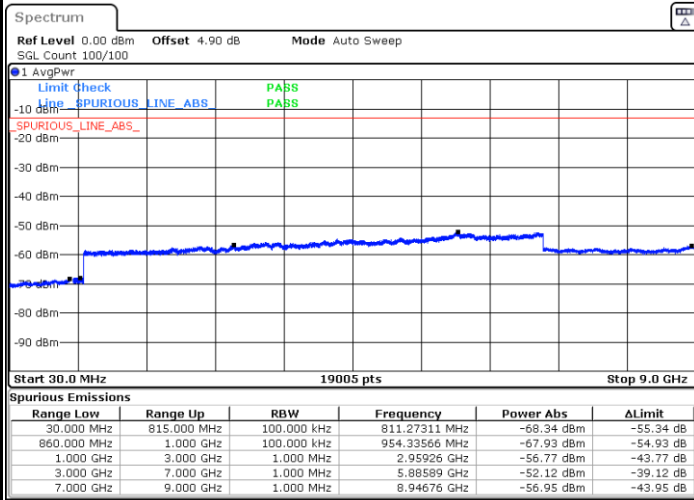
Date: 1.APR.2021 16:30:32



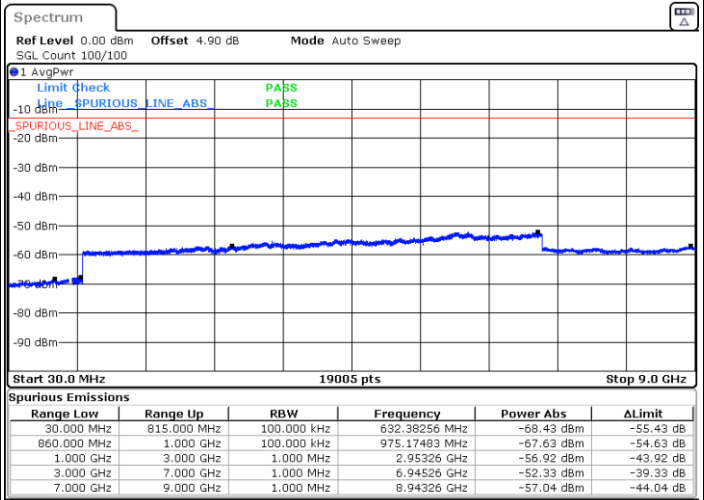
FR1 n5 / 15MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

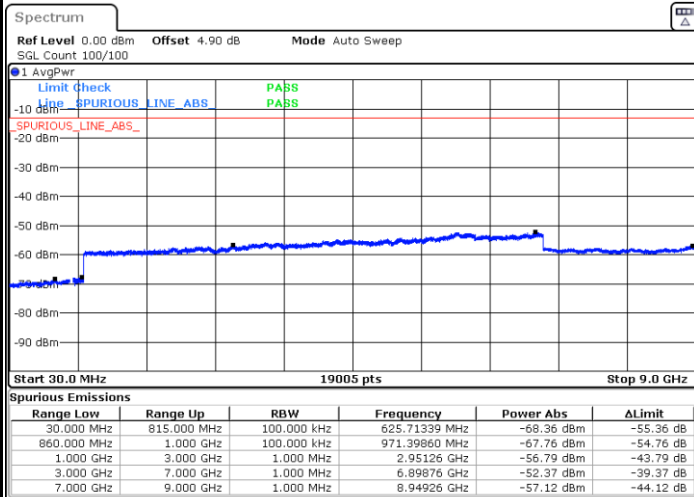


Date: 1.APR.2021 16:31:17



Date: 1.APR.2021 16:31:56

Highest Channel / 1RB1



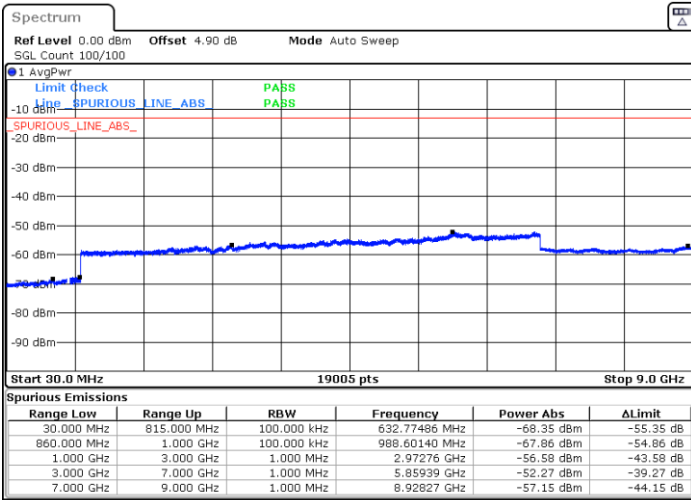
Date: 1.APR.2021 16:32:35



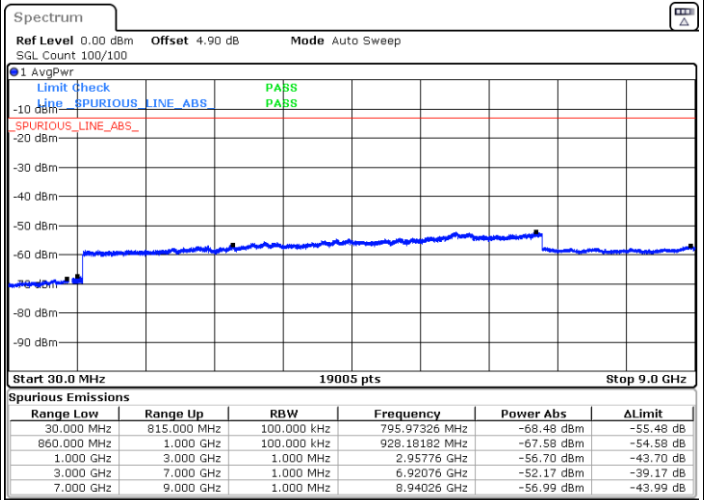
FR1 n5 / 20MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

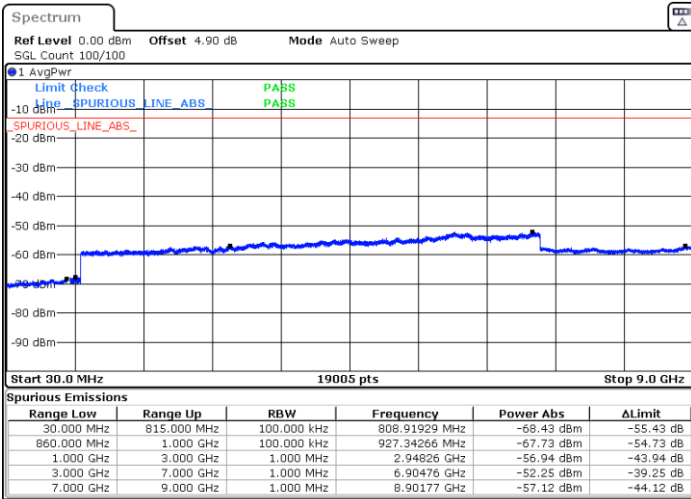


Date: 1.APR.2021 16:33:28



Date: 1.APR.2021 16:34:19

Highest Channel / 1RB1



Date: 1.APR.2021 16:36:18



### Frequency Stability

Test Conditions		FR1 n5 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0026	PASS
40	Normal Voltage	0.0041	
30	Normal Voltage	0.0021	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0022	
0	Normal Voltage	0.0015	
-10	Normal Voltage	0.0023	
-20	Normal Voltage	0.0032	
-30	Normal Voltage	0.0027	
20	Maximum Voltage	0.0013	
20	Normal Voltage	0.0024	
20	Battery End Point	0.0013	

**Note:**

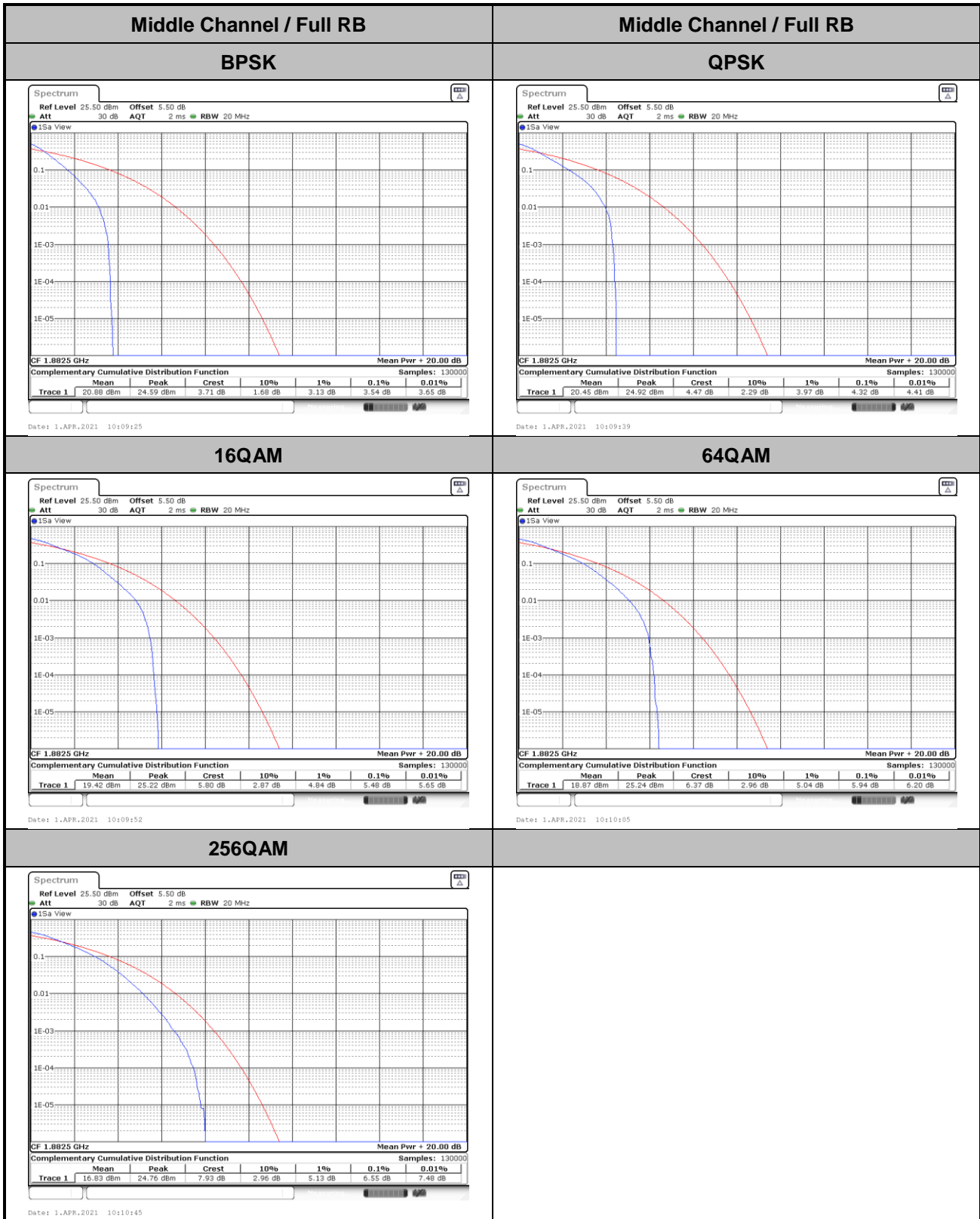
1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.40 V. ; Maximum Voltage =4.30 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



# FR1 n25

## Peak-to-Average Ratio

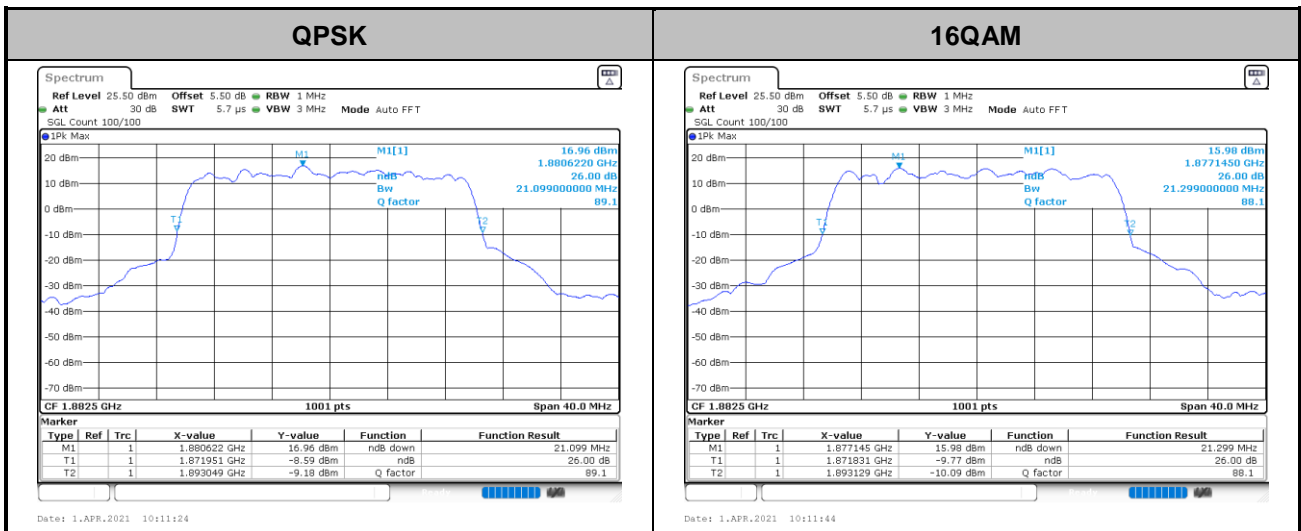
Mode	FR1 n25 / 20MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
					<b>PASS</b>
Middle CH	3.54	4.32	5.48	5.94	
Mode	FR1 n25 / 20MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
					<b>PASS</b>
Middle CH	6.55				





**26dB Bandwidth**

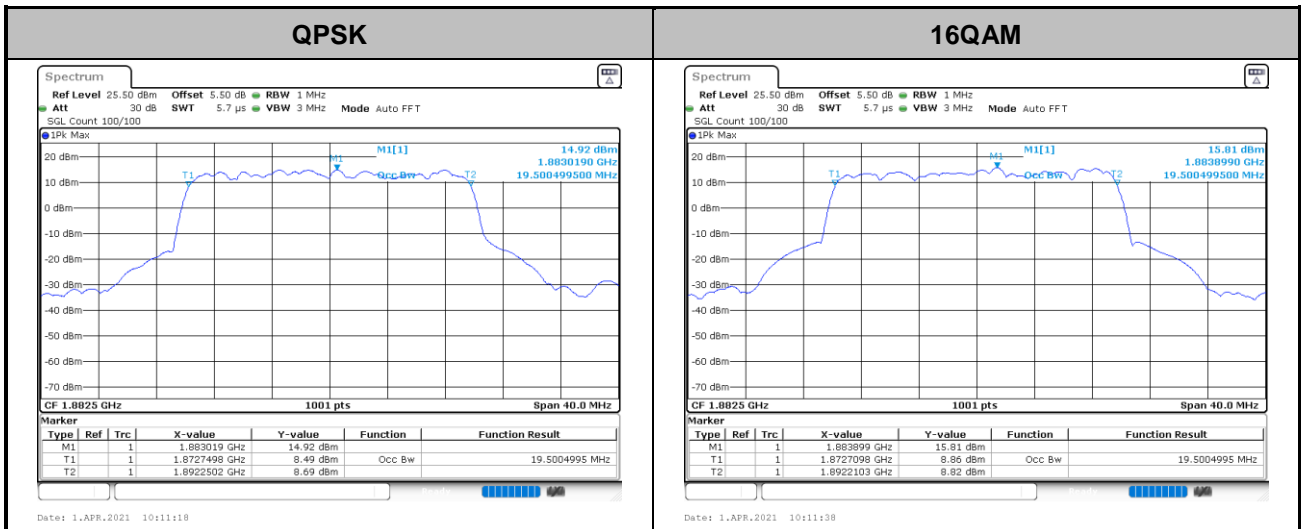
Mode	FR1 n25 : 26dB BW(MHz) / DFT-S OFDM						
BW	20M						
Mod.	QPSK	16QAM					
Middle CH	21.099	21.299					





## Occupied Bandwidth

<b>Mode</b>	<b>FR1 n25 : 99%OBW(MHz) / DFT-S OFDM</b>						
<b>BW</b>	<b>20M</b>						
<b>Mod.</b>	<b>QPSK</b>	<b>16QAM</b>					
<b>Middle CH</b>	19.50	19.50					







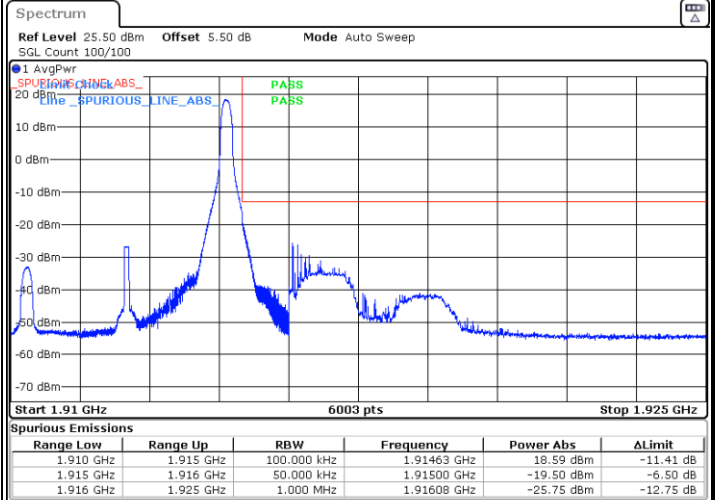
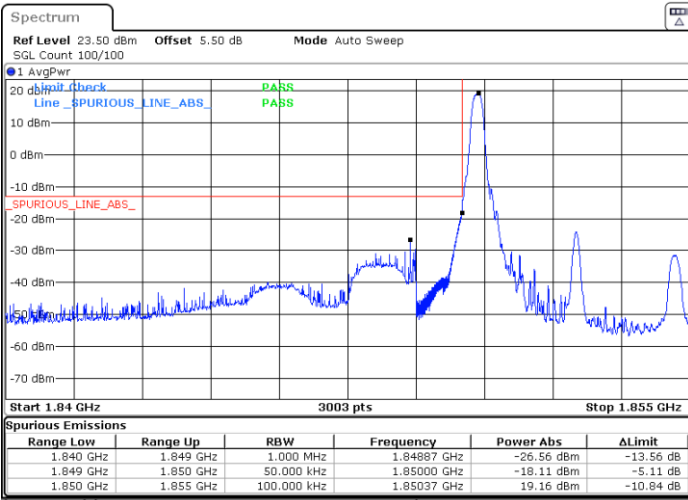
**Conducted Band Edge**



FR1 n25 / 5MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

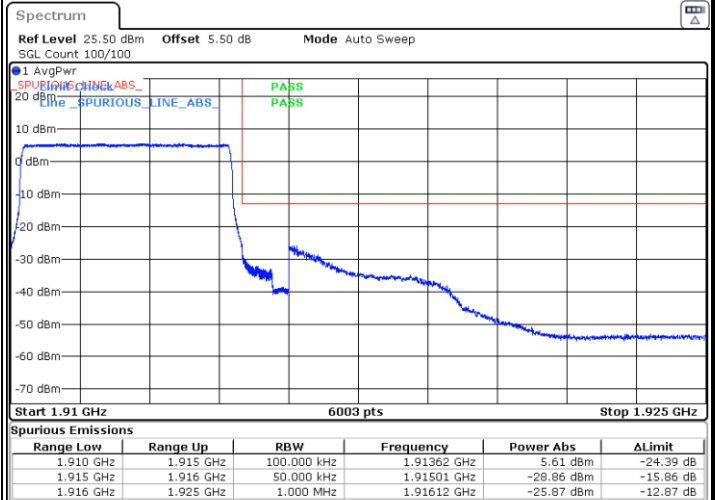
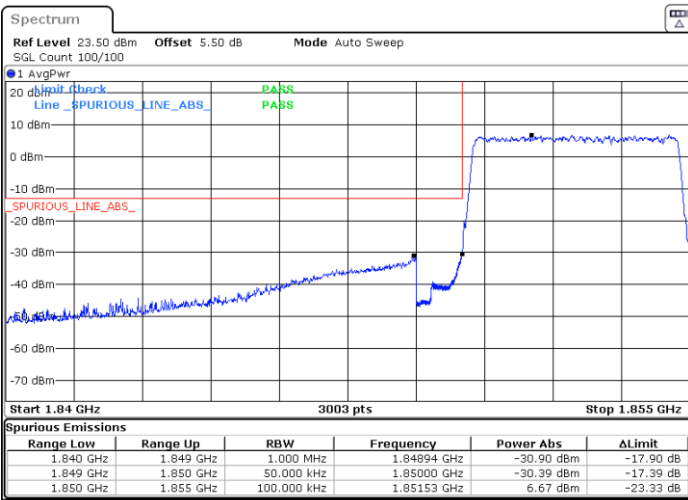


Date: 1.APR.2021 09:04:49

Date: 1.APR.2021 09:16:17

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 1.APR.2021 08:59:45

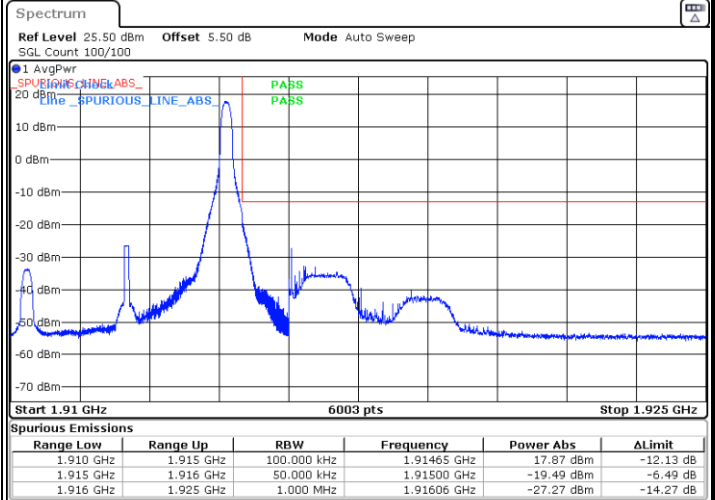
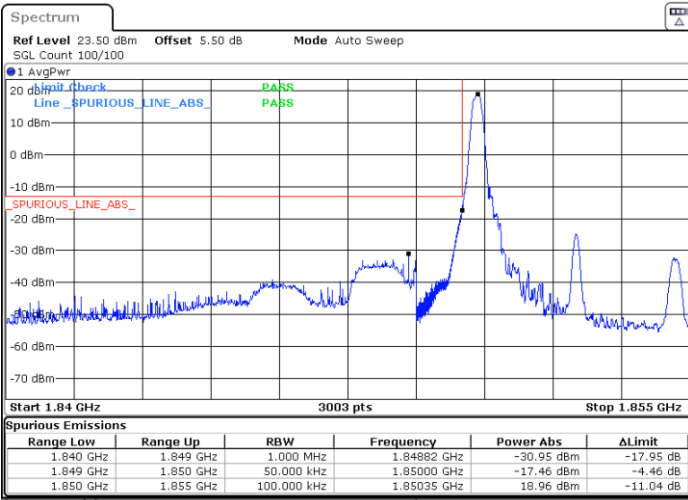
Date: 1.APR.2021 09:09:19



FR1 n25 / 5MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

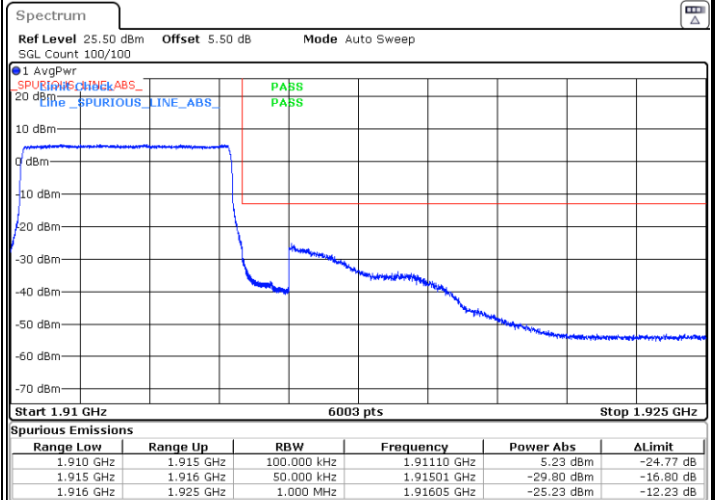
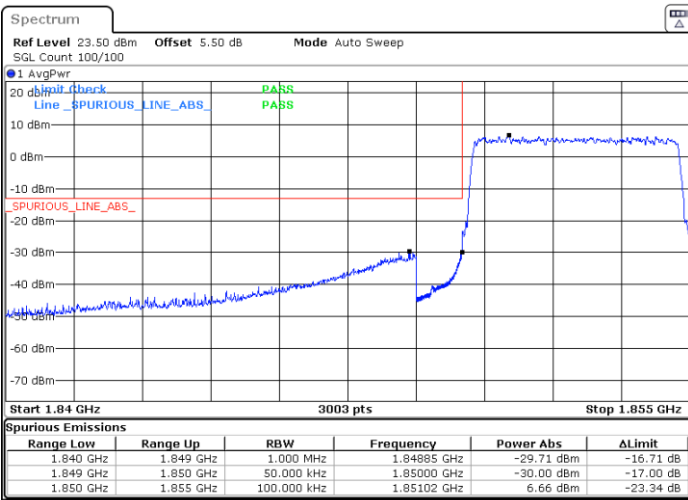


Date: 1.APR.2021 09:04:02

Date: 1.APR.2021 09:15:07

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 1.APR.2021 09:00:24

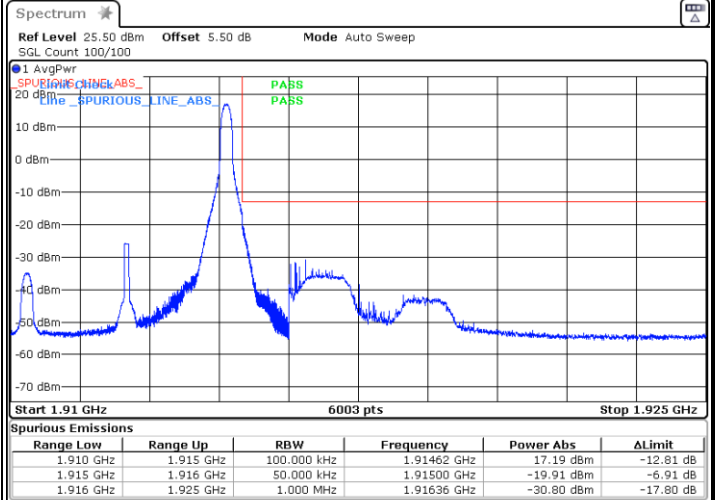
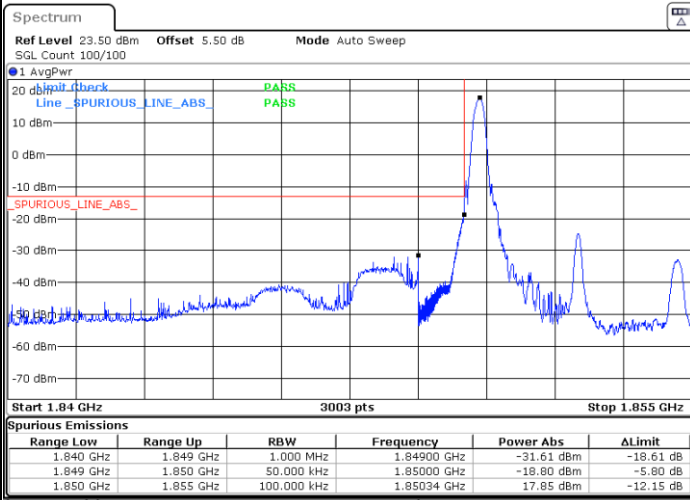
Date: 1.APR.2021 09:08:36



FR1 n25 / 5MHz / DFT-S OFDM / 16Q

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

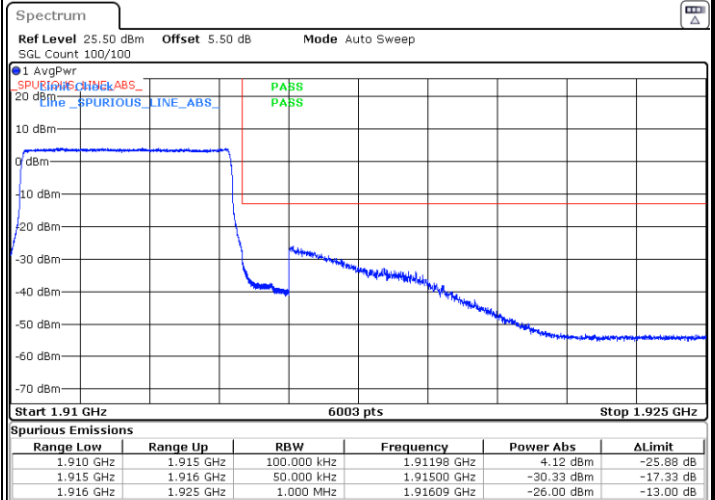
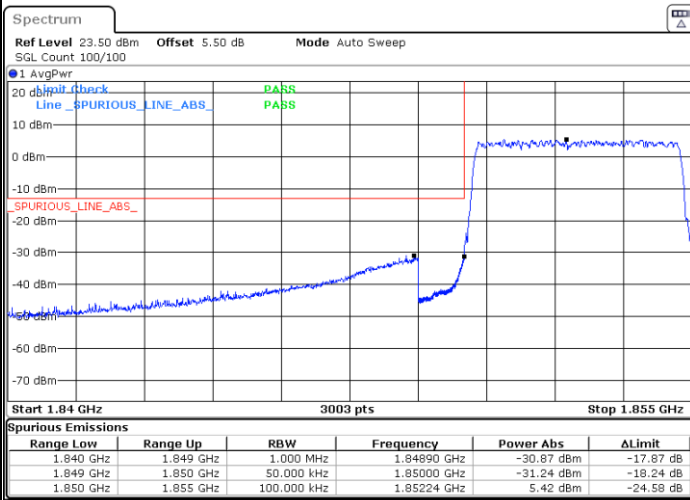


Date: 1.APR.2021 09:03:38

Date: 1.APR.2021 09:14:29

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 1.APR.2021 09:00:58

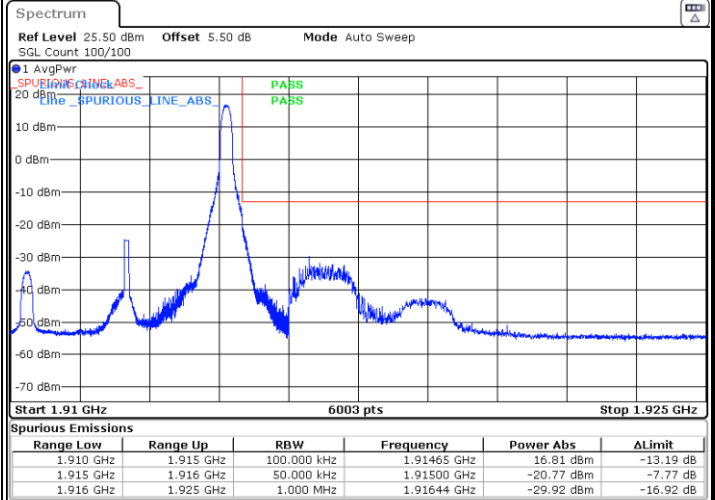
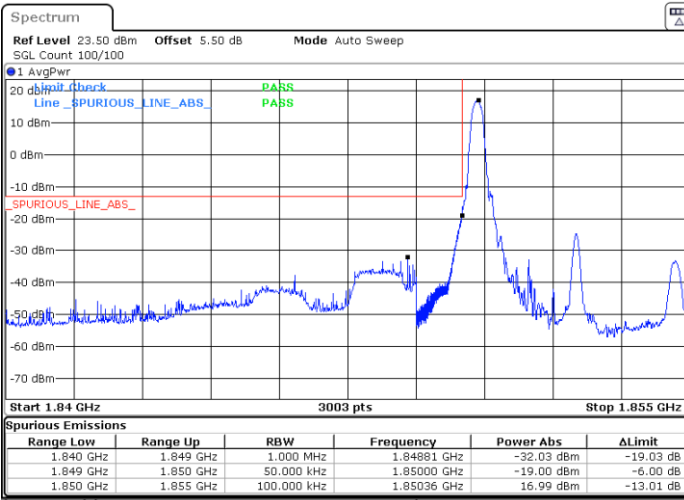
Date: 1.APR.2021 09:10:09



FR1 n25 / 5MHz / DFT-S OFDM / 64Q

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

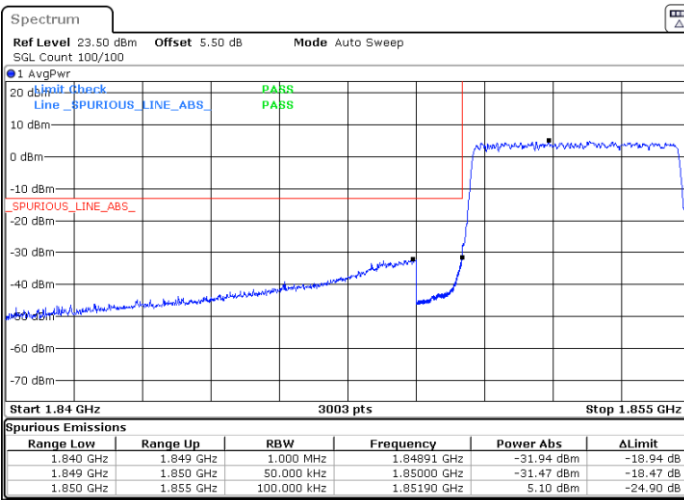


Date: 1.APR.2021 09:03:14

Date: 1.APR.2021 09:13:38

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 1.APR.2021 09:01:24

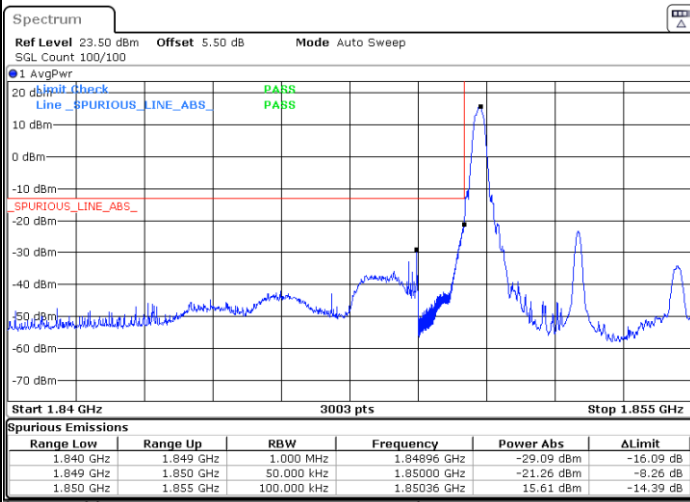
Date: 1.APR.2021 09:11:01



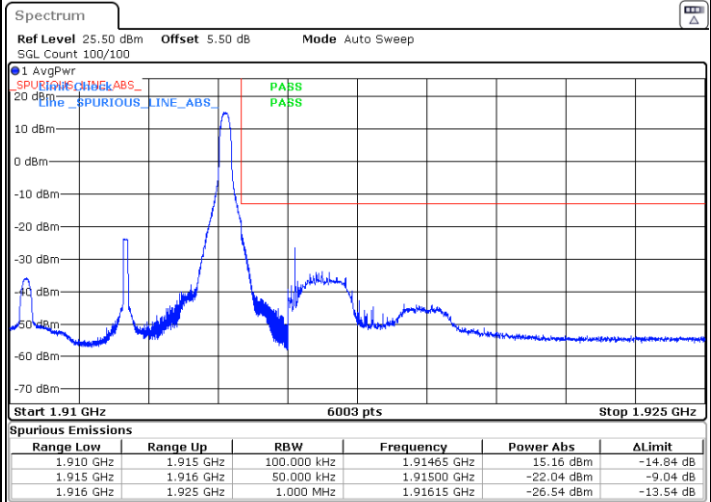
FR1 n25 / 5MHz / DFT-S OFDM / 256Q

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX



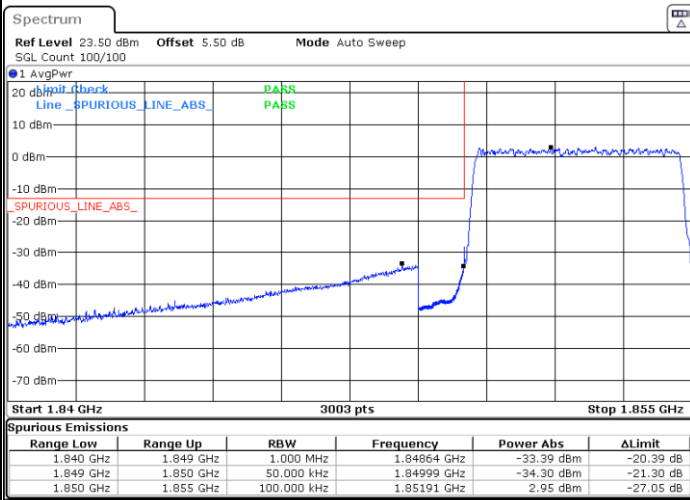
Date: 1.APR.2021 09:02:47



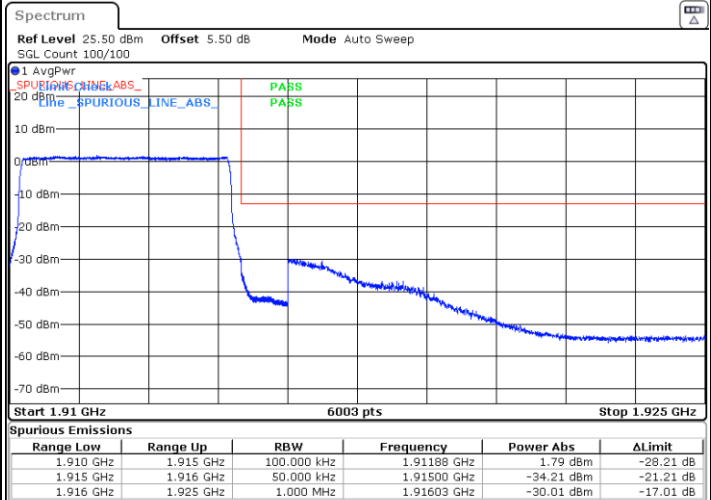
Date: 1.APR.2021 09:13:03

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 1.APR.2021 09:02:22



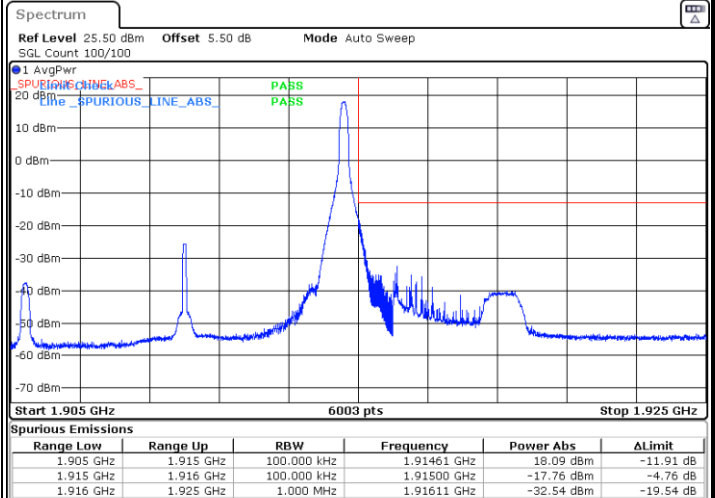
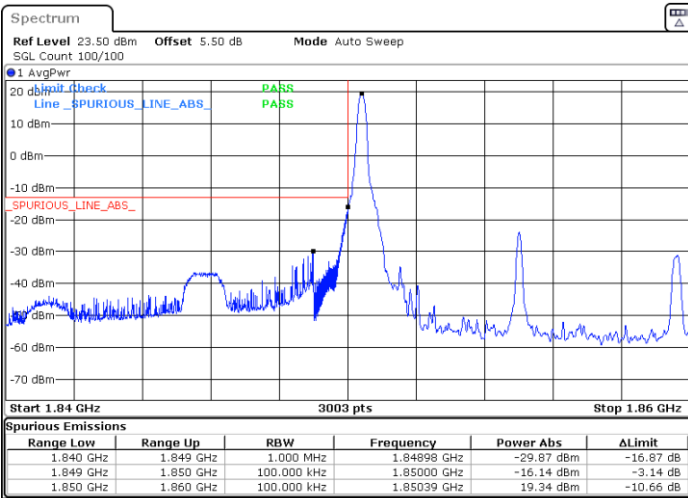
Date: 1.APR.2021 09:12:23



FR1 n25 / 10MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

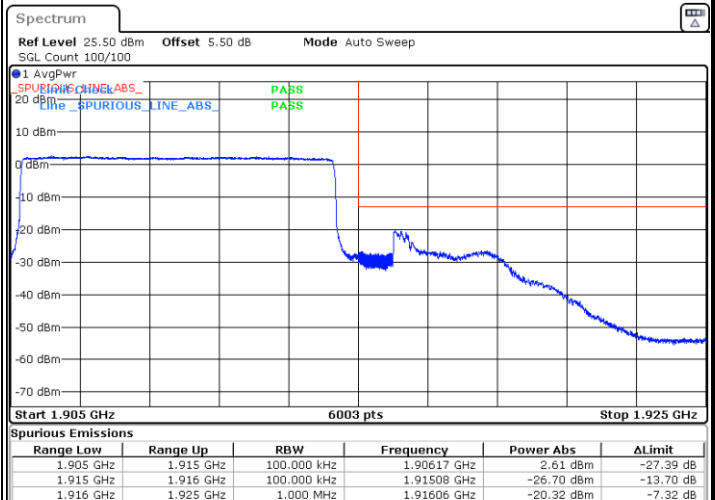
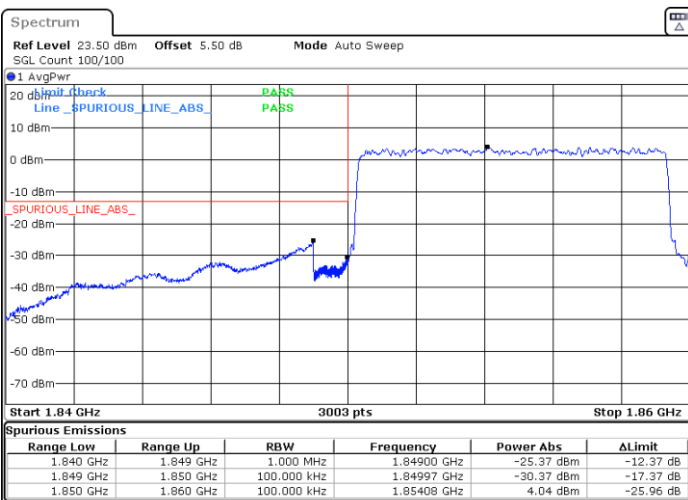


Date: 1.APR.2021 09:21:16

Date: 1.APR.2021 09:32:57

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 1.APR.2021 09:17:18

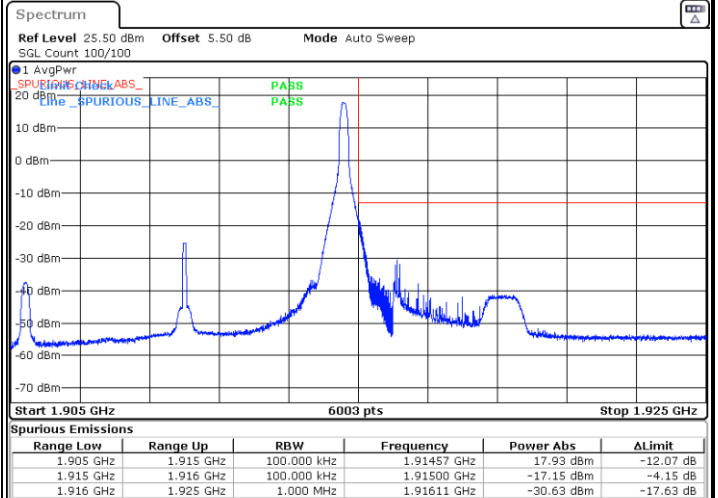
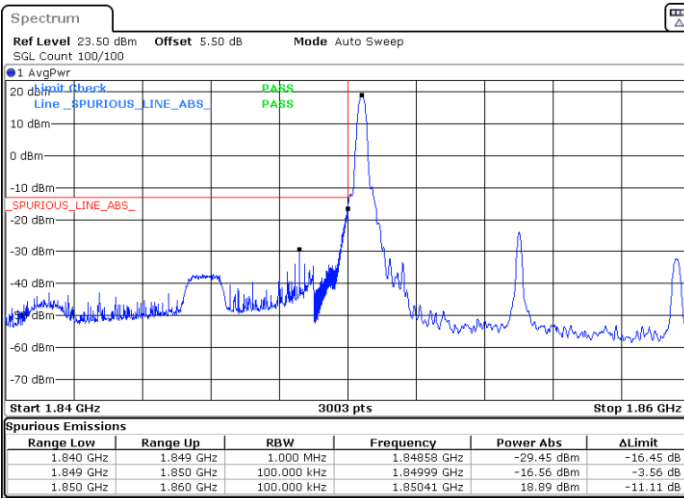
Date: 1.APR.2021 09:25:49



FR1 n25 / 10MHz / DFT-s-OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

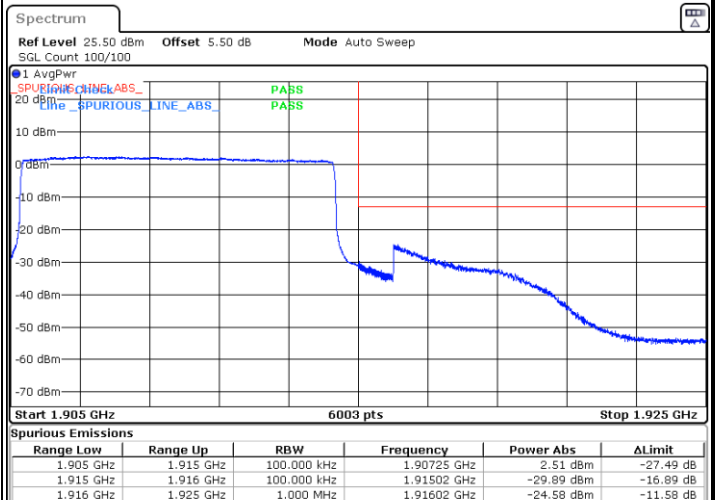
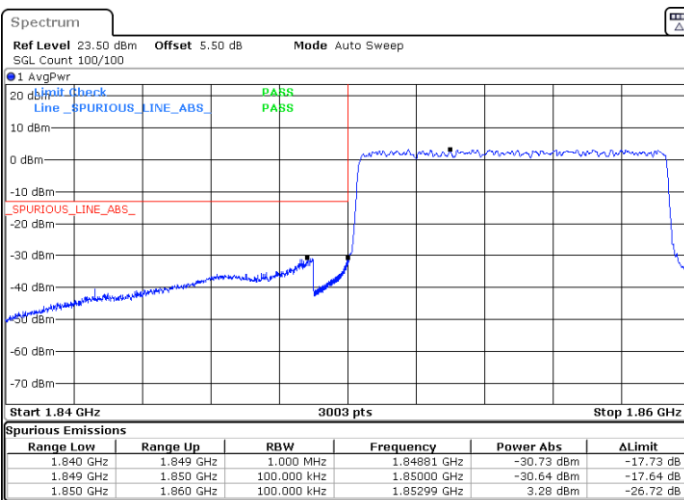


Date: 1.APR.2021 09:20:37

Date: 1.APR.2021 09:31:52

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 1.APR.2021 09:17:36

Date: 1.APR.2021 09:26:28

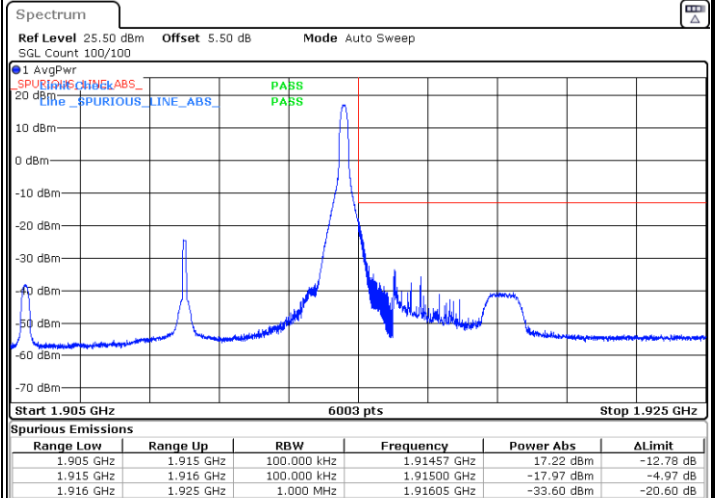
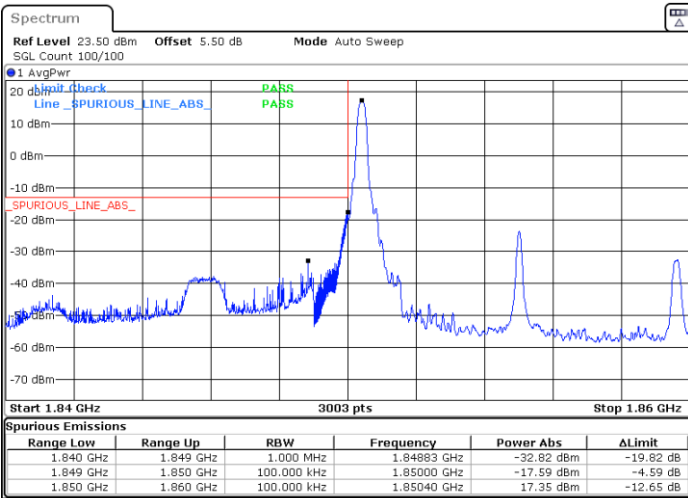




FR1 n25 / 10MHz / DFT-s-OFDM / 16QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

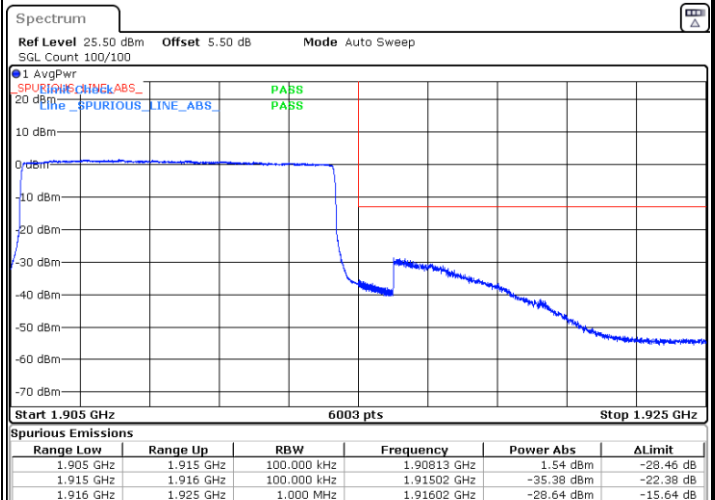
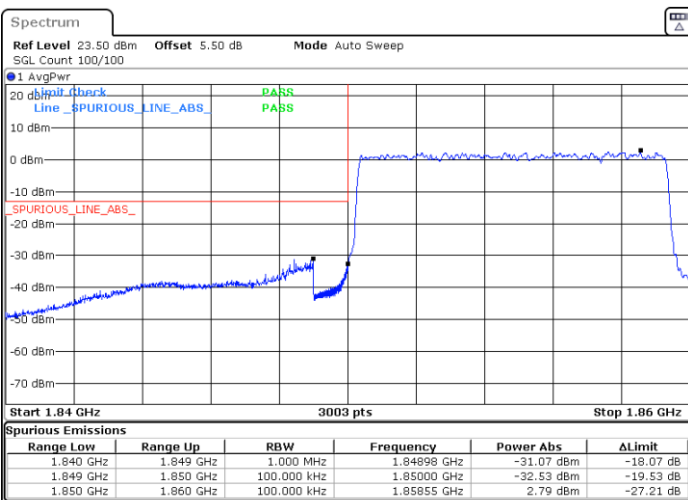


Date: 1.APR.2021 09:20:20

Date: 1.APR.2021 09:31:13

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 1.APR.2021 09:17:52

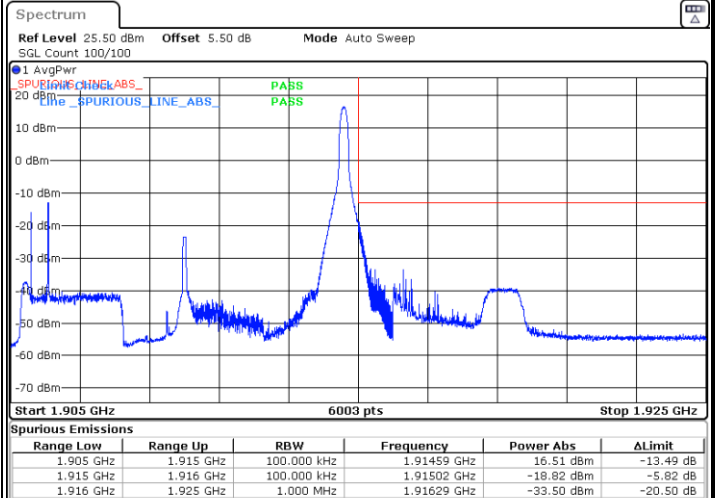
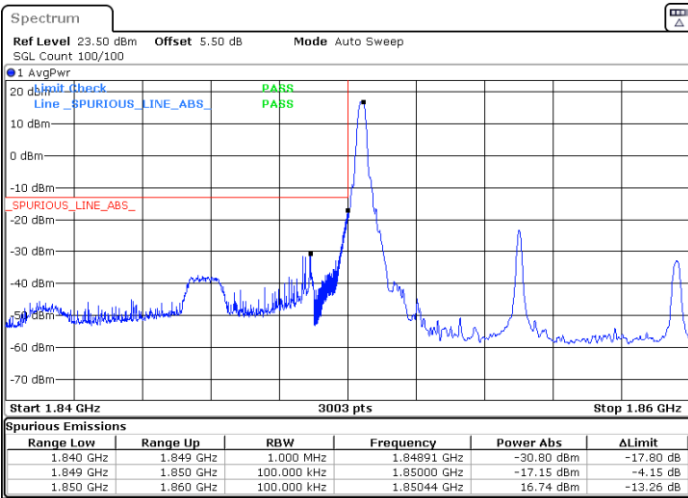
Date: 1.APR.2021 09:27:11



FR1 n25 / 10MHz / DFT-s-OFDM / 64QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

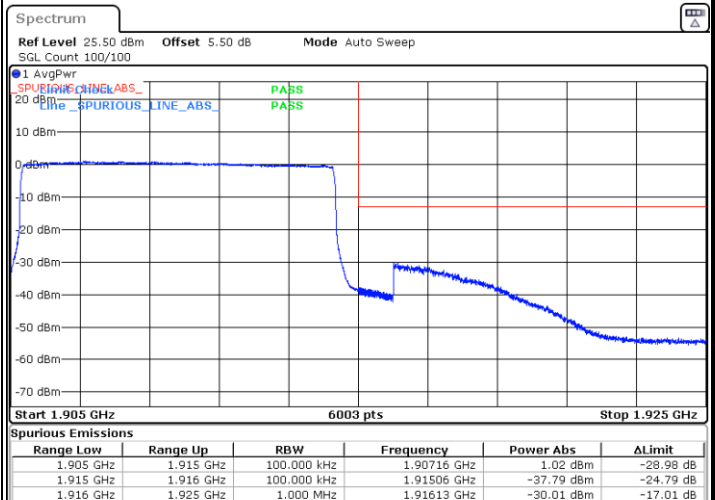
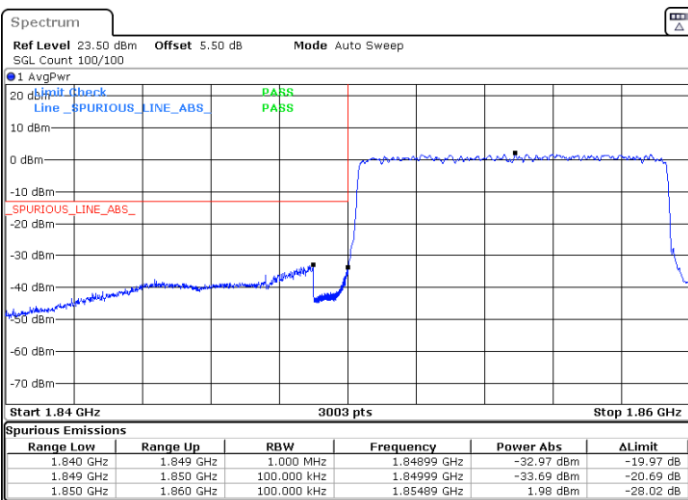


Date: 1.APR.2021 09:20:02

Date: 1.APR.2021 09:30:21

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 1.APR.2021 09:18:09

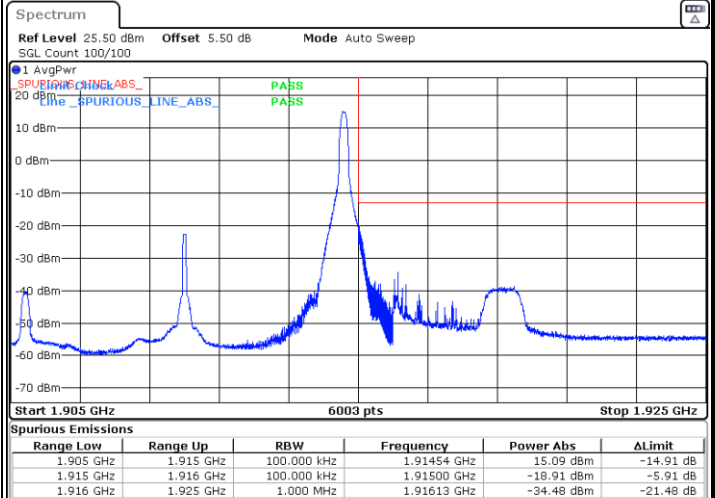
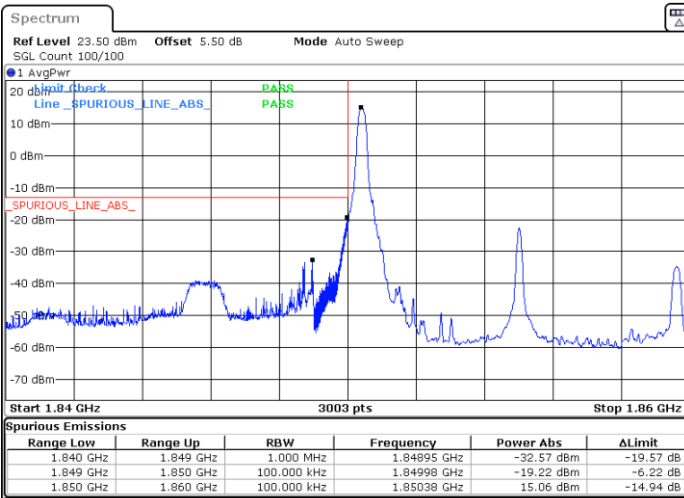
Date: 1.APR.2021 09:27:51



FR1 n25 / 10MHz / DFT-s-OFDM / 256QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

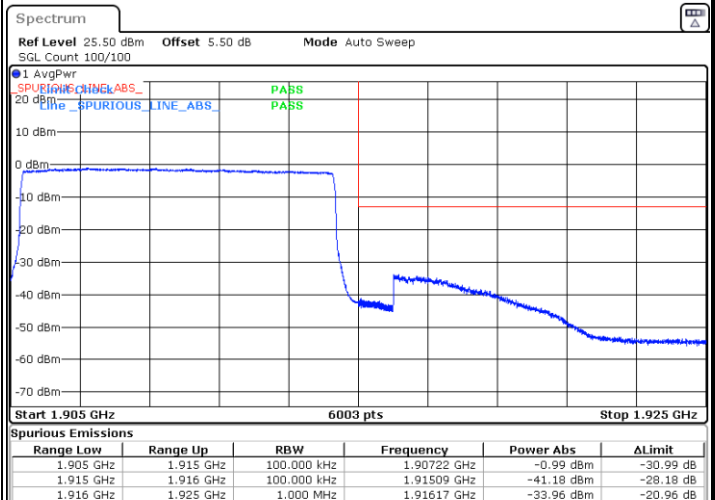
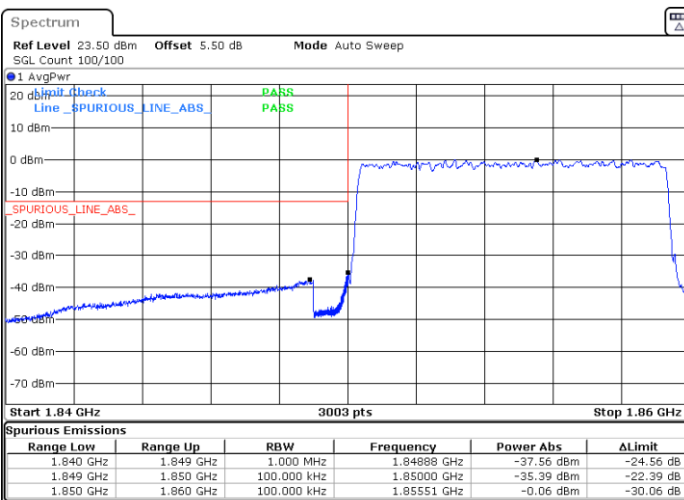


Date: 1.APR.2021 09:19:32

Date: 1.APR.2021 09:29:38

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 1.APR.2021 09:19:14

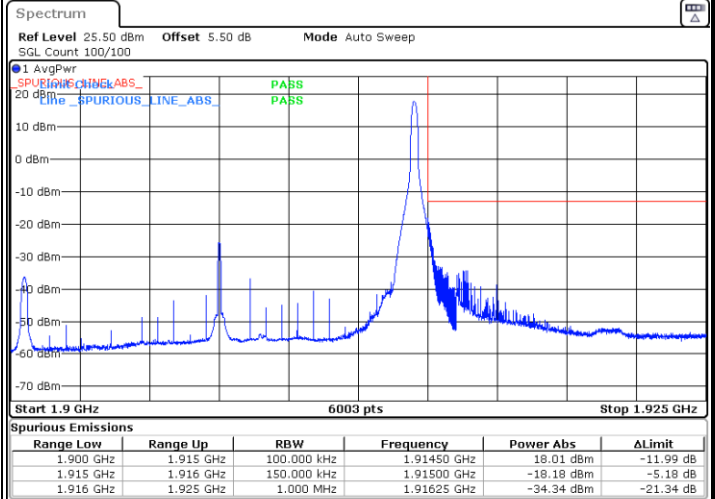
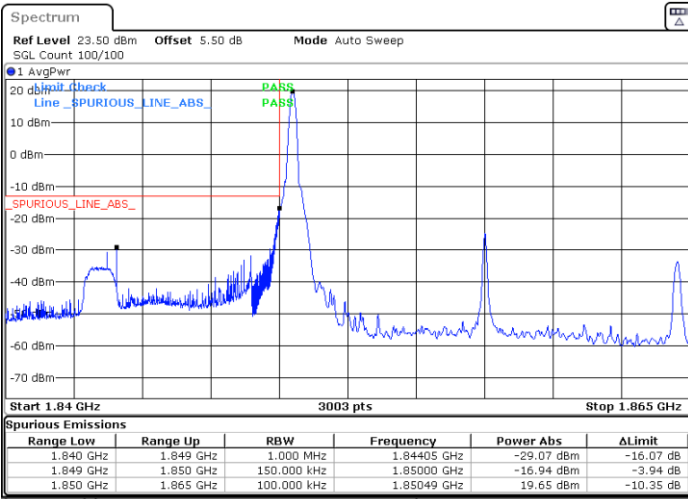
Date: 1.APR.2021 09:28:51



FR1 n25/ 15MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

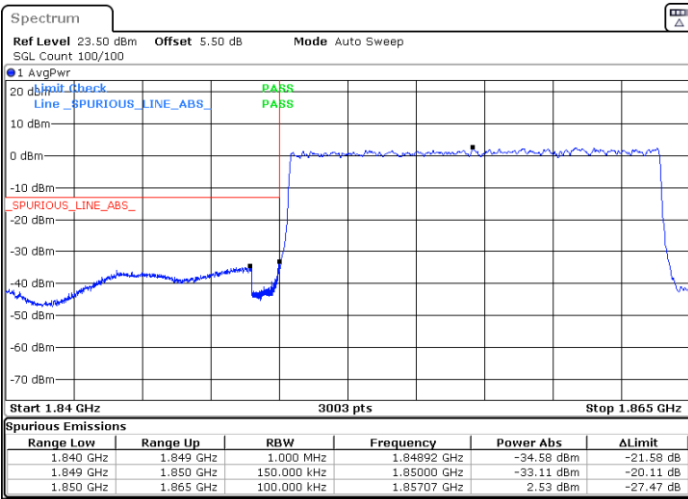


Date: 1.APR.2021 09:40:42

Date: 1.APR.2021 09:59:23

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 1.APR.2021 09:37:30

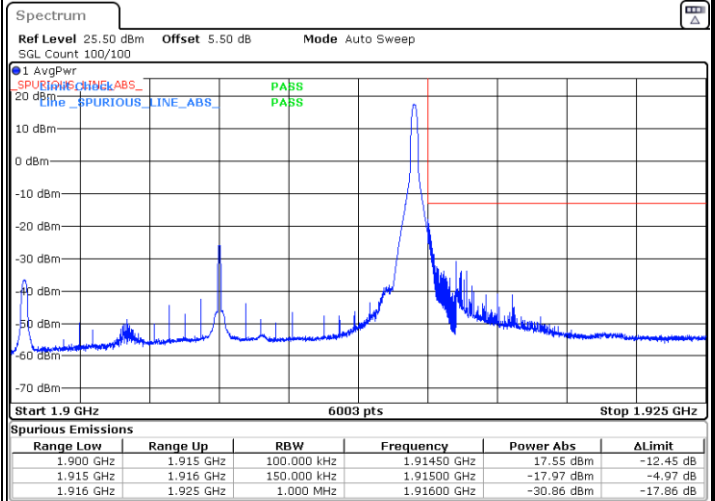
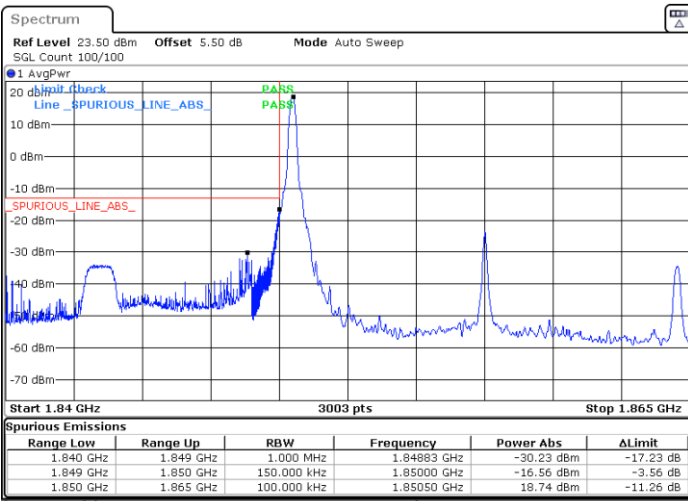
Date: 1.APR.2021 09:50:37



FR1 n25 / 15MHz / DFT-s-OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

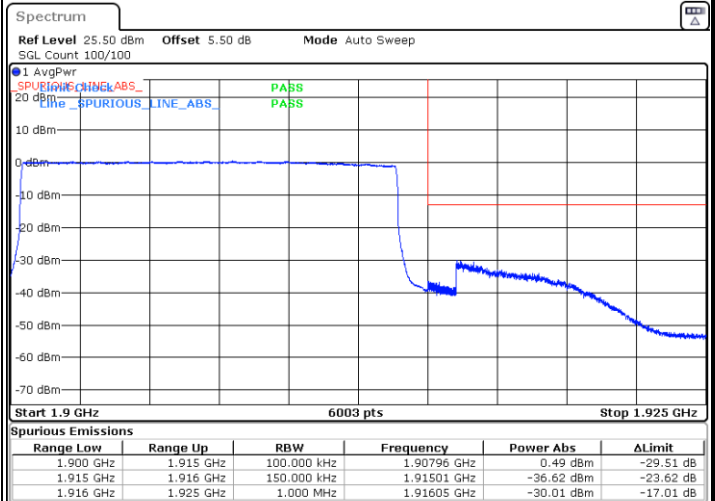
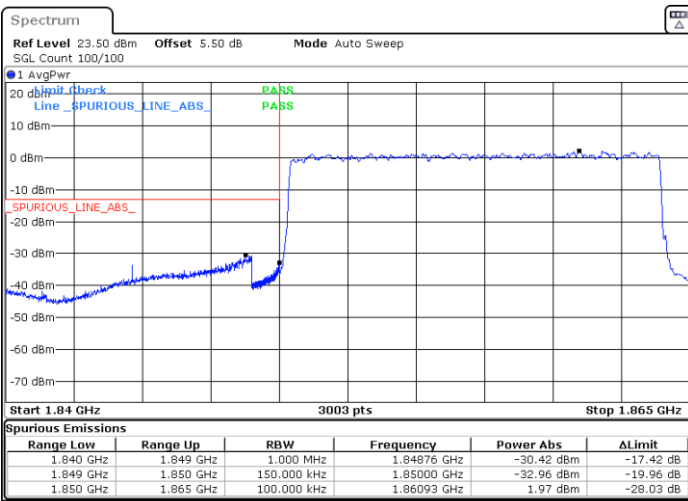


Date: 1.APR.2021 09:40:04

Date: 1.APR.2021 09:57:59

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 1.APR.2021 09:37:48

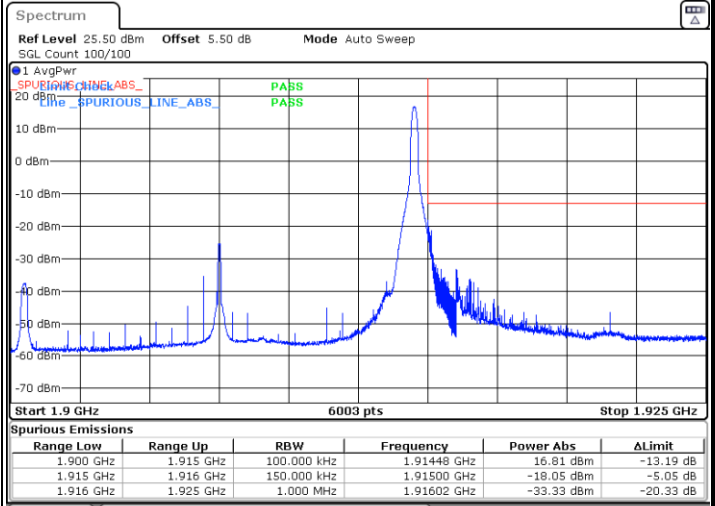
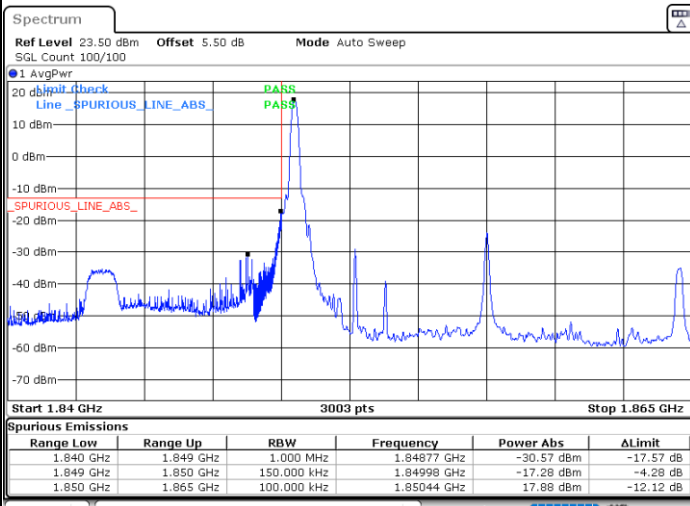
Date: 1.APR.2021 09:51:27



FR1 n25 / 15MHz / DFT-s-OFDM / 16QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

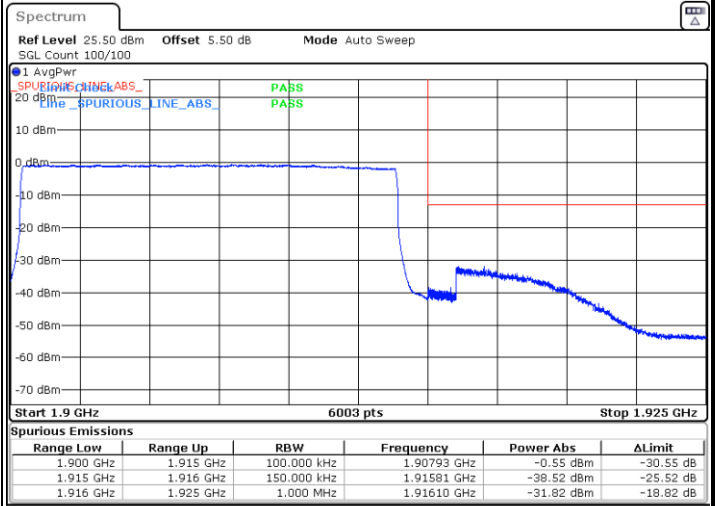
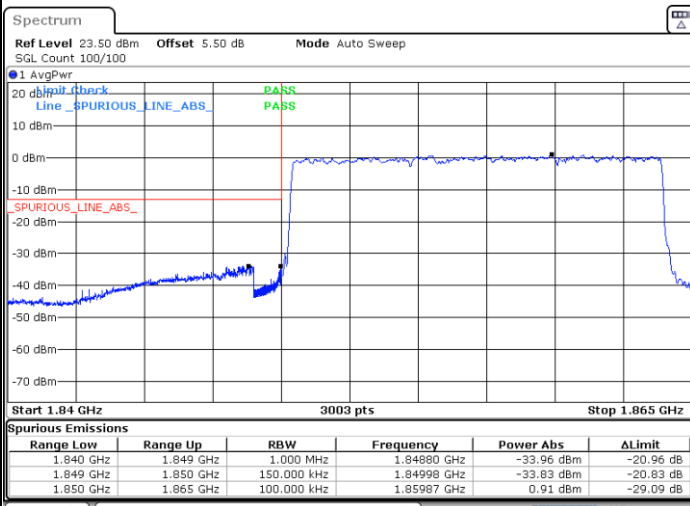


Date: 1.APR.2021 09:39:48

Date: 1.APR.2021 09:57:10

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 1.APR.2021 09:38:04

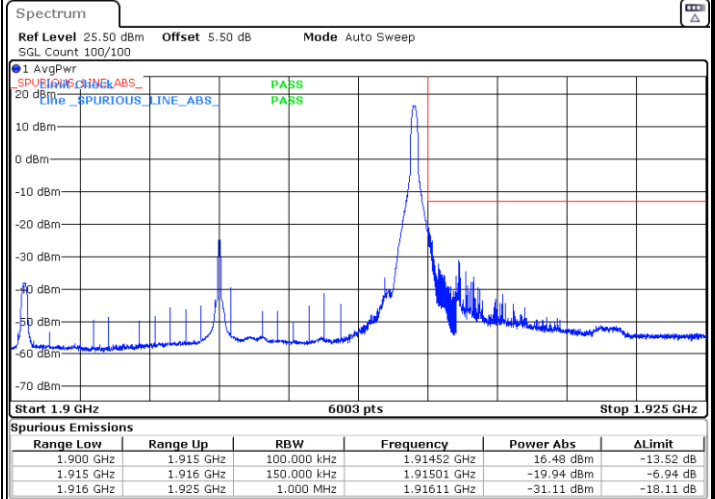
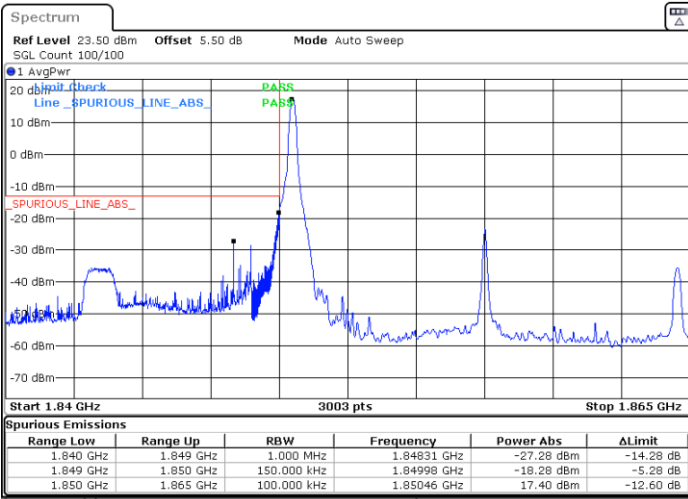
Date: 1.APR.2021 09:52:24



FR1 n25 / 15MHz / DFT-s-OFDM / 64QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

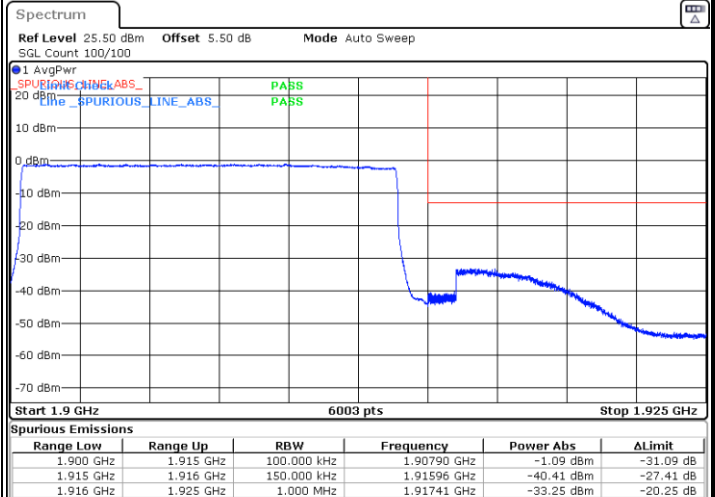
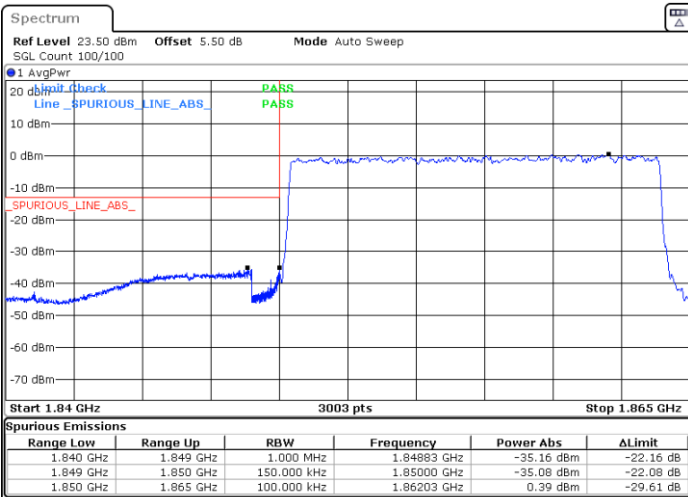


Date: 1.APR.2021 09:39:33

Date: 1.APR.2021 09:56:18

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 1.APR.2021 09:38:21

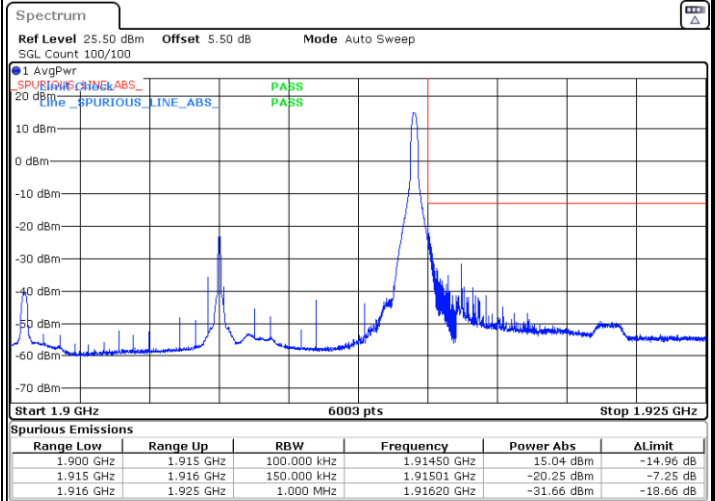
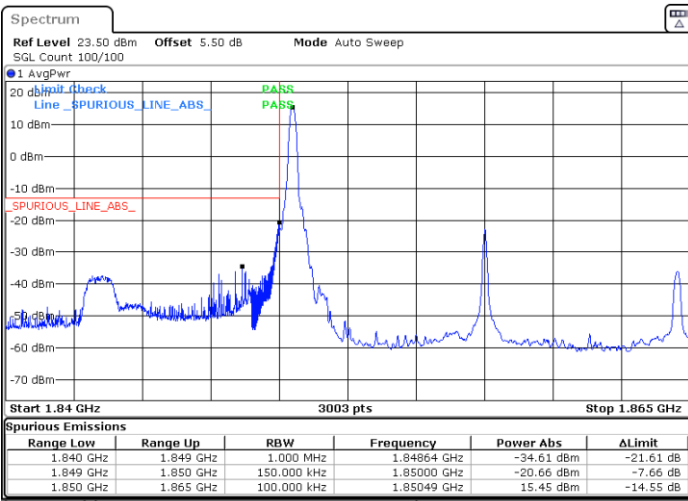
Date: 1.APR.2021 09:53:12



FR1 n25 / 15MHz / DFT-s-OFDM / 256QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

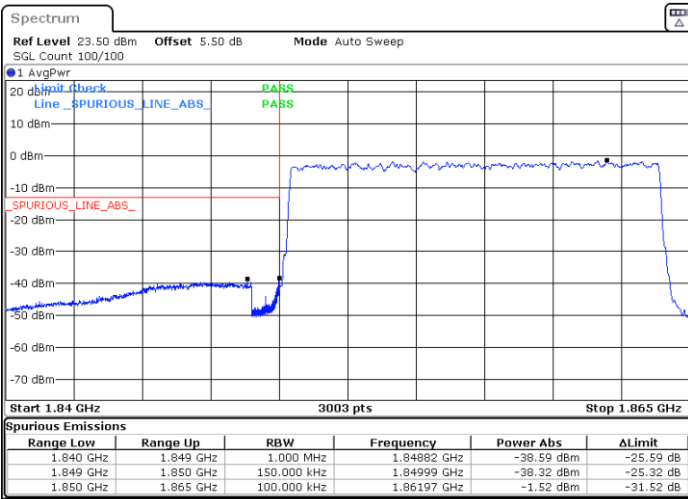


Date: 1.APR.2021 09:39:17

Date: 1.APR.2021 09:55:21

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 1.APR.2021 09:38:59

Date: 1.APR.2021 09:54:24

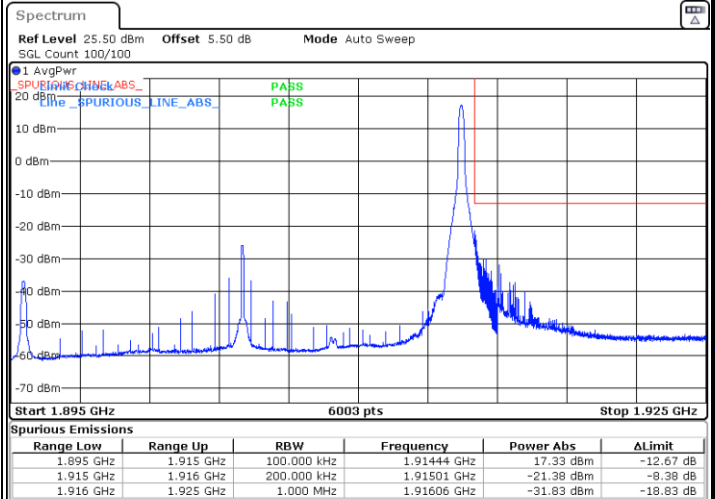
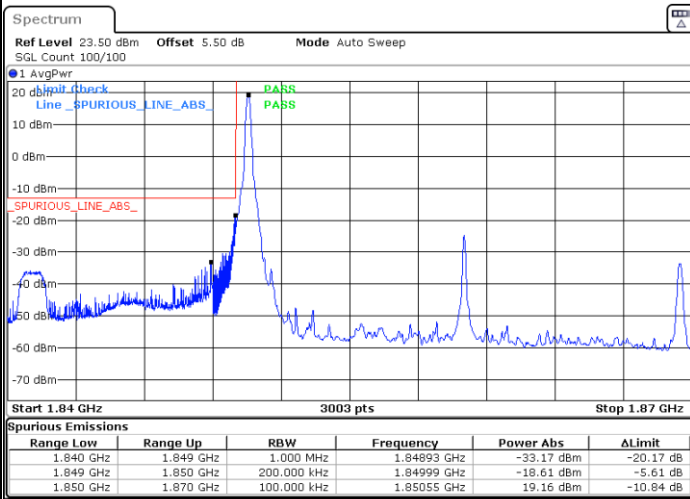




FR1 n25 / 20MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

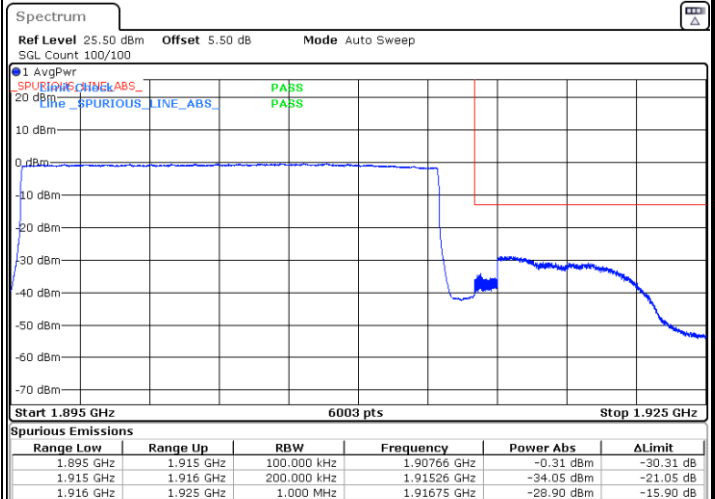
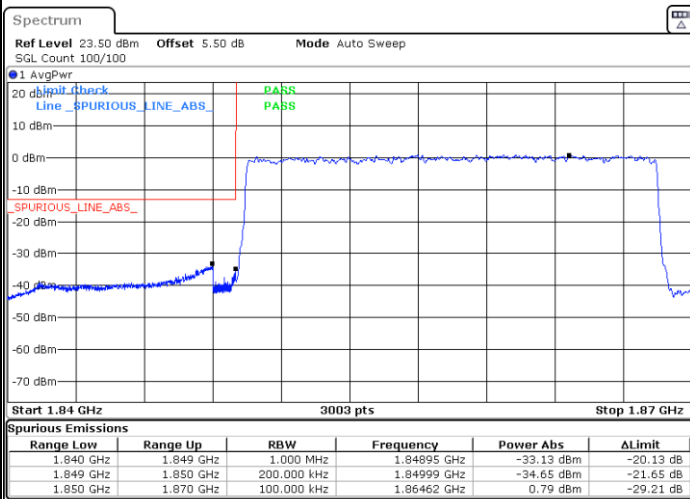


Date: 1.APR.2021 10:06:25

Date: 1.APR.2021 10:23:06

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 1.APR.2021 10:03:07

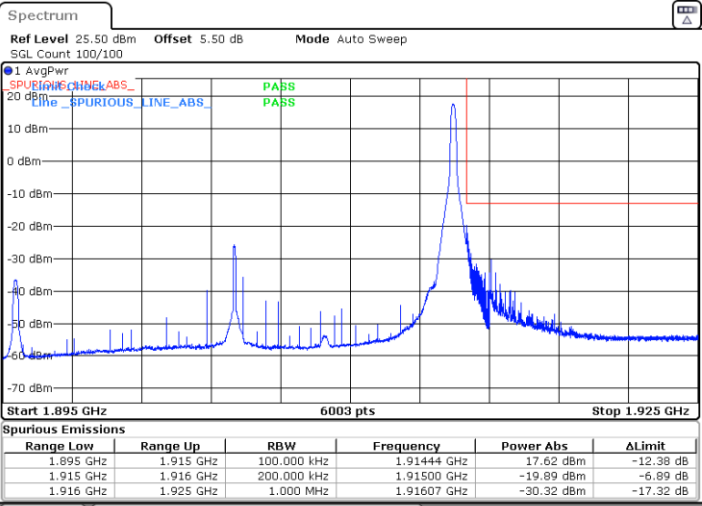
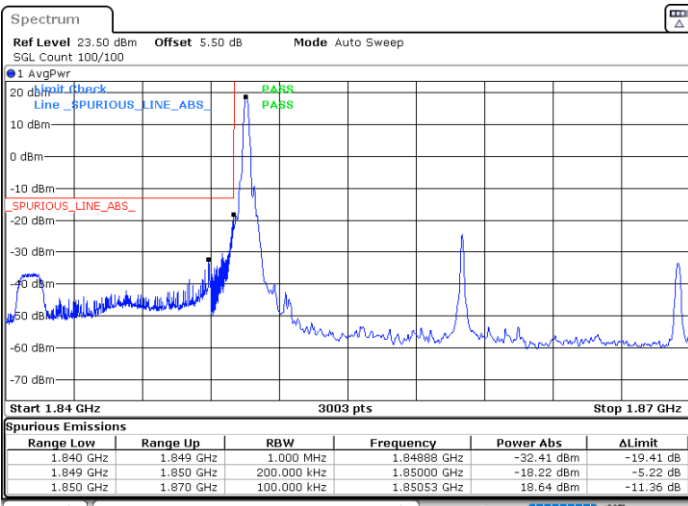
Date: 1.APR.2021 10:13:12



FR1 n25 / 20MHz / DFT-s-OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

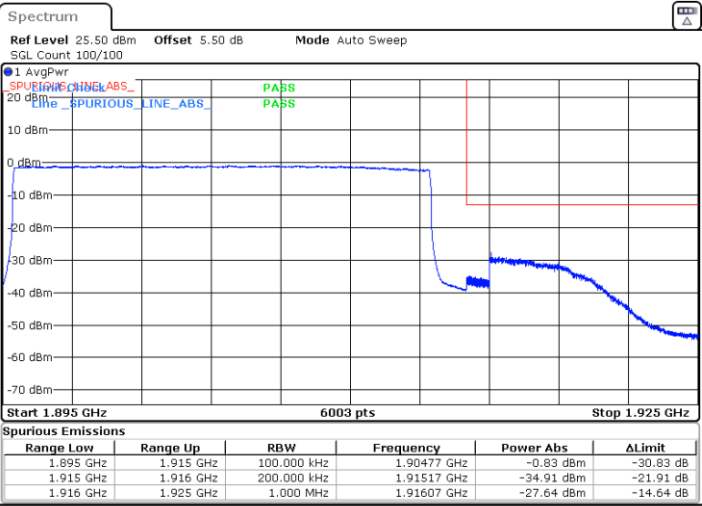
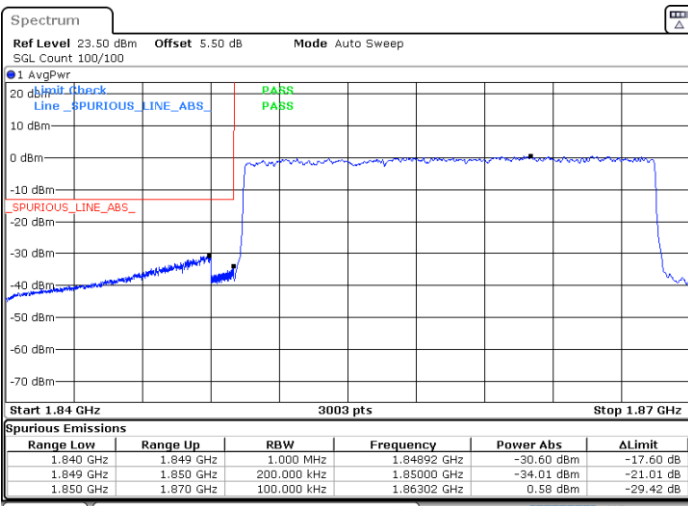


Date: 1.APR.2021 10:05:56

Date: 1.APR.2021 10:21:49

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 1.APR.2021 10:03:23

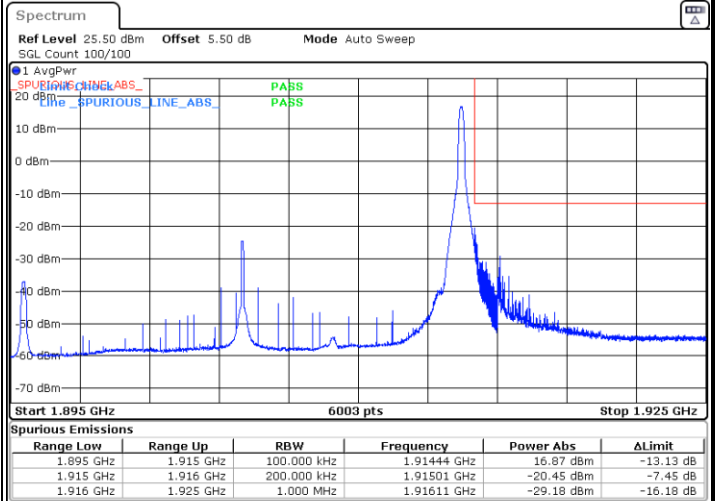
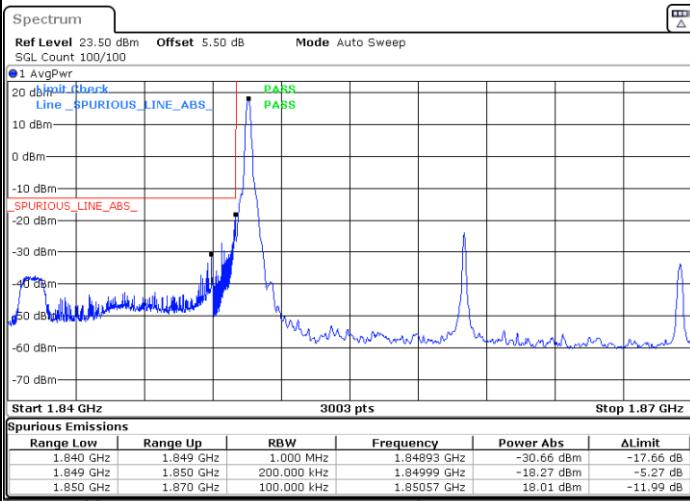
Date: 1.APR.2021 10:14:10



FR1 n25 / 20MHz / DFT-s-OFDM / 16QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

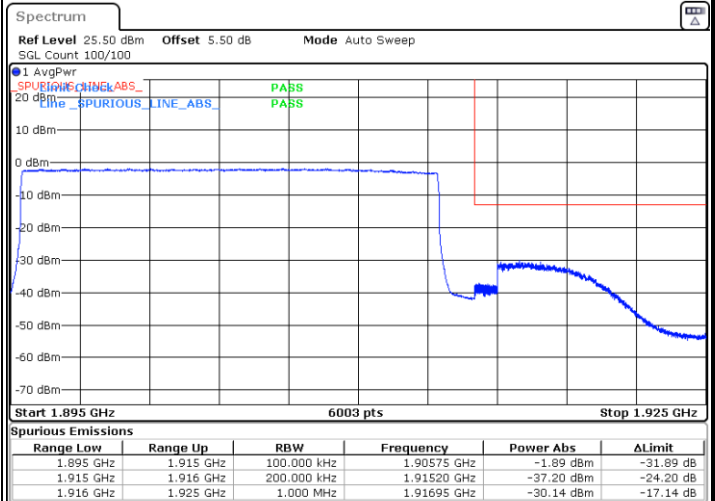
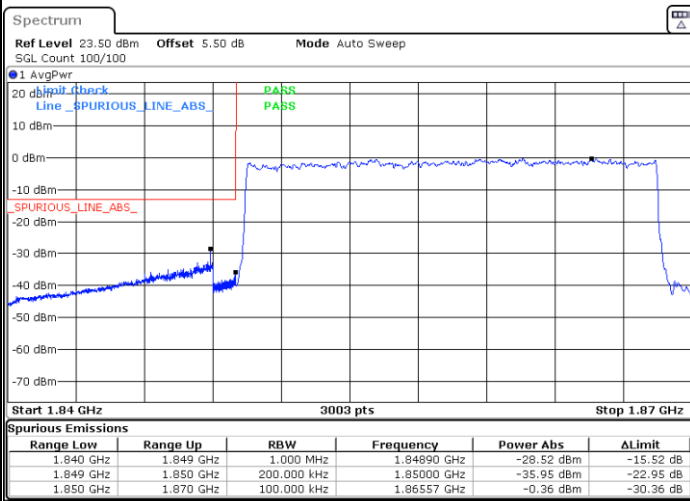


Date: 1.APR.2021 10:05:41

Date: 1.APR.2021 10:20:50

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 1.APR.2021 10:03:39

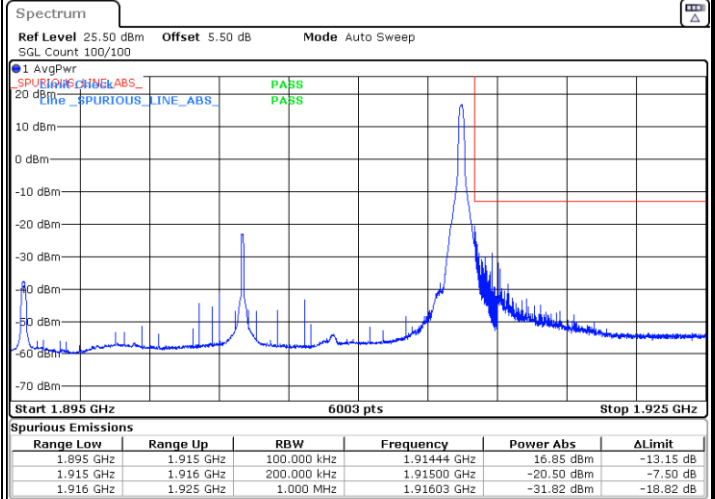
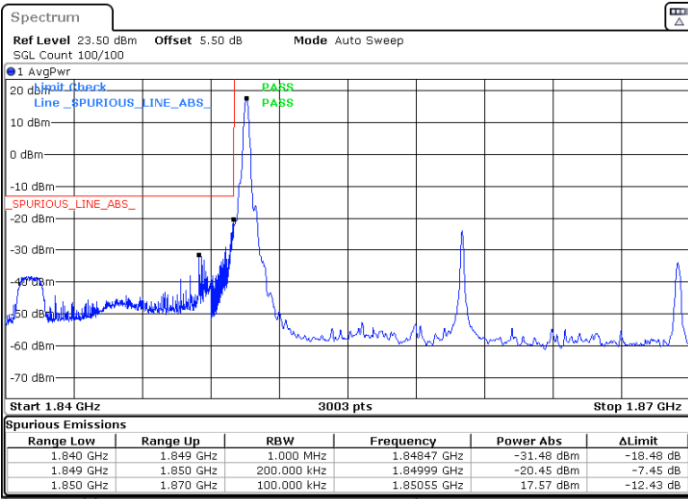
Date: 1.APR.2021 10:15:09



FR1 n25 / 20MHz / DFT-s-OFDM / 64QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

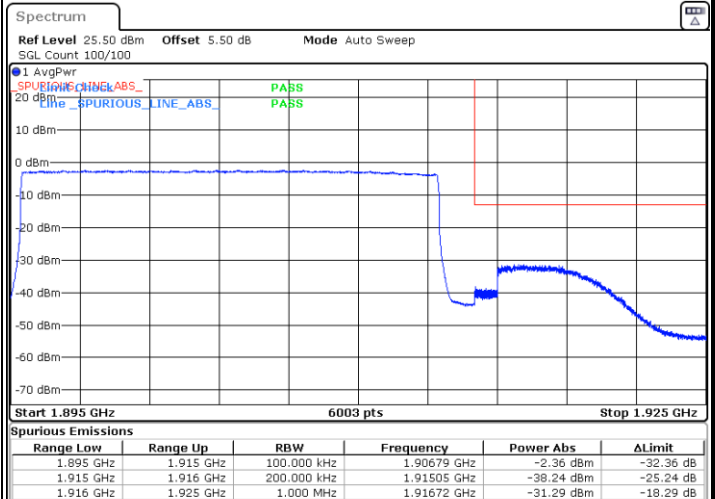
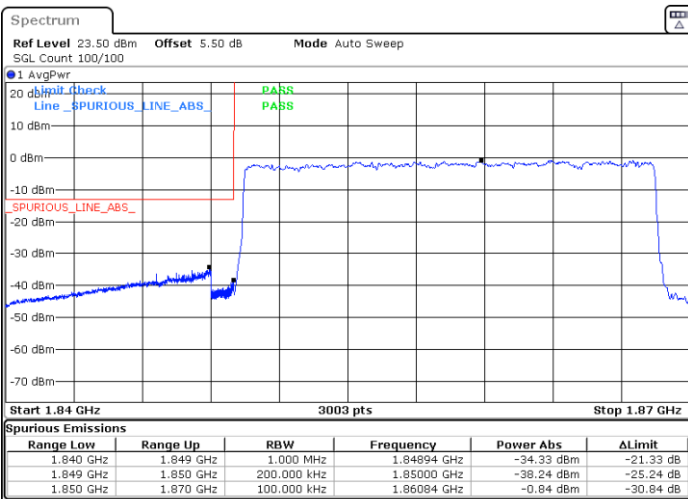


Date: 1.APR.2021 10:05:25

Date: 1.APR.2021 10:19:50

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 1.APR.2021 10:04:12

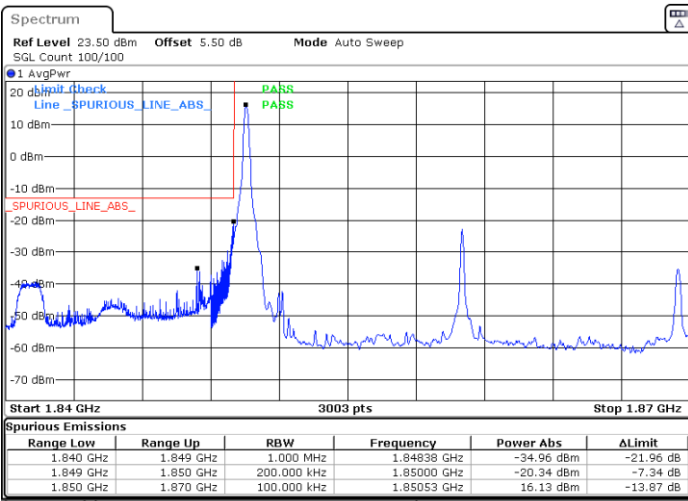
Date: 1.APR.2021 10:16:08



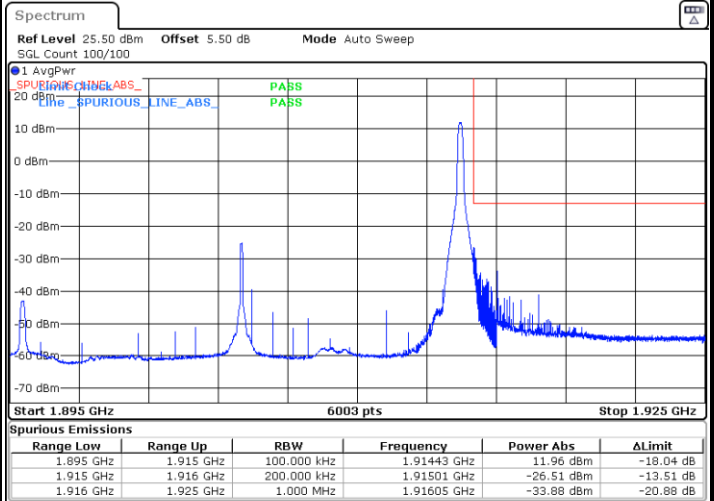
FR1 n25 / 20MHz / DFT-s-OFDM / 256QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX



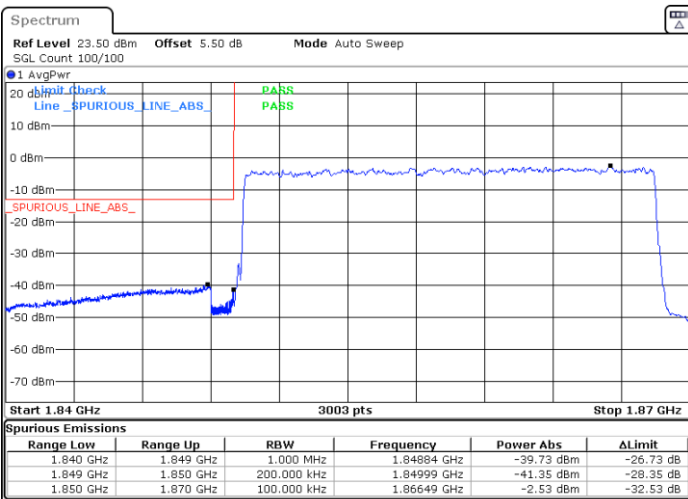
Date: 1.APR.2021 10:05:09



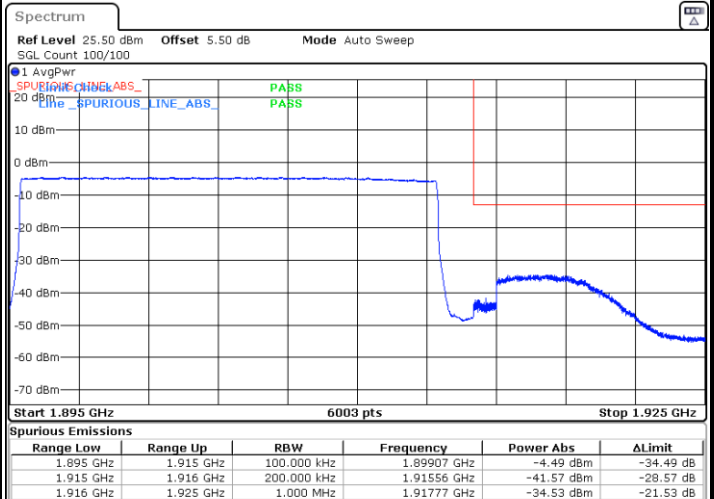
Date: 1.APR.2021 10:10:42

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 1.APR.2021 10:04:53



Date: 1.APR.2021 10:17:33



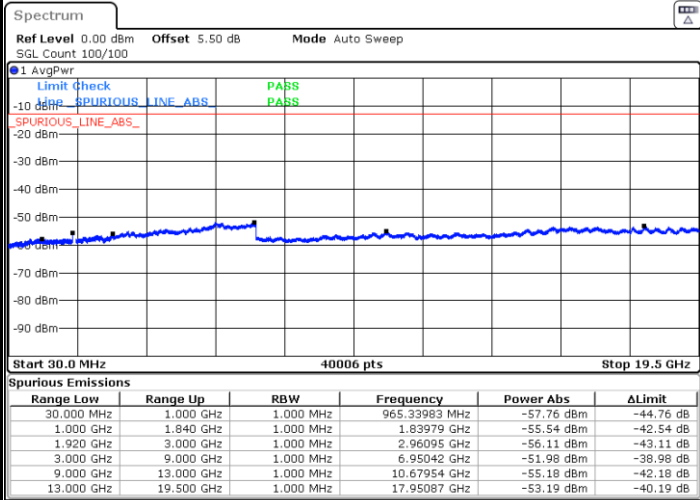
## **Conducted Spurious Emission**



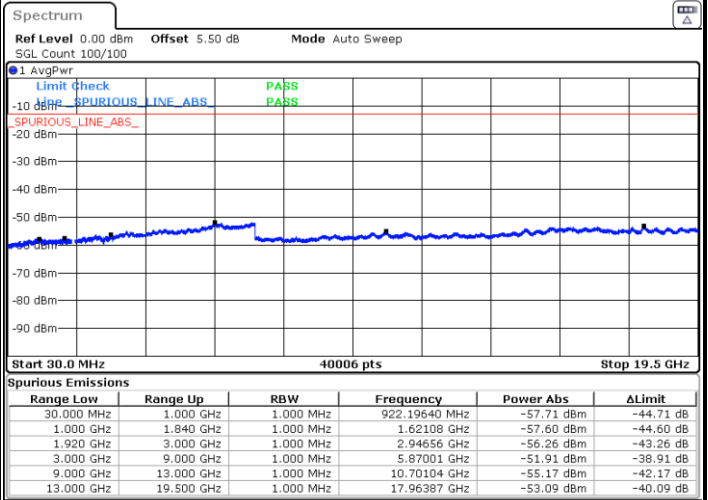
FR1 n25 / 5MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

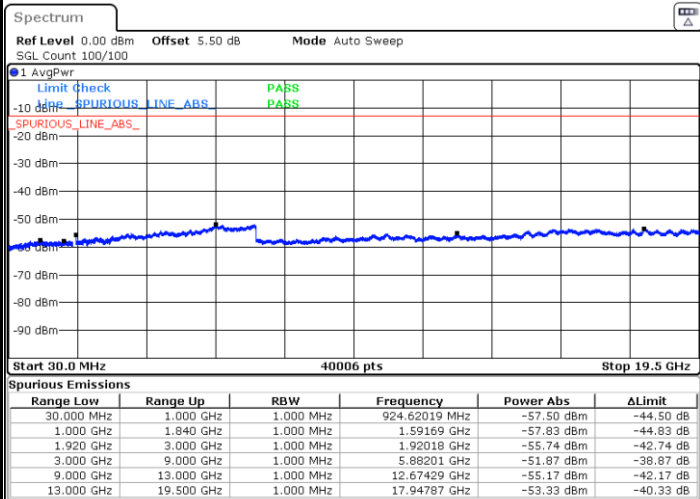


Date: 1.APR.2021 09:05:36



Date: 1.APR.2021 09:06:49

Highest Channel / 1RB1



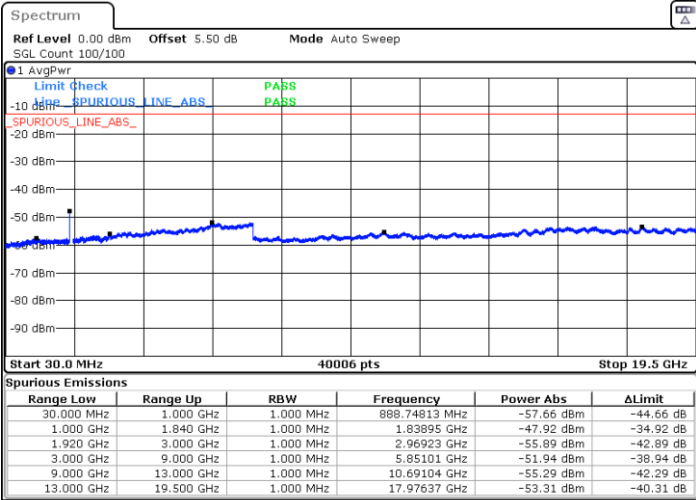
Date: 1.APR.2021 09:07:56



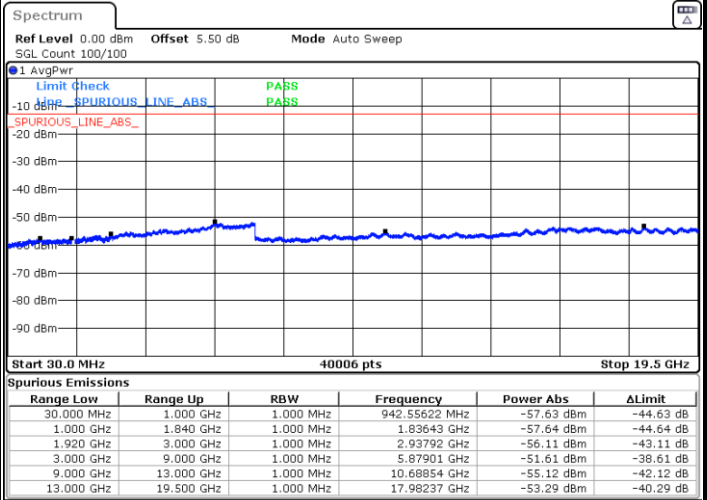
FR1 n25 / 10MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

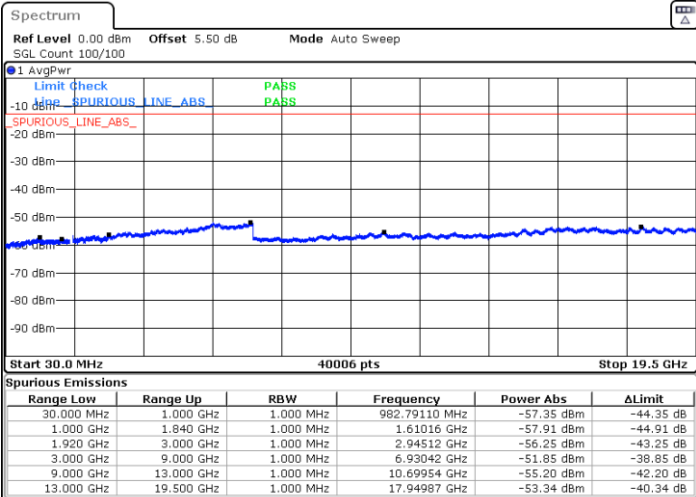


Date: 1.APR.2021 09:22:03



Date: 1.APR.2021 09:43:12

Highest Channel / 1RB1



Date: 1.APR.2021 09:25:02

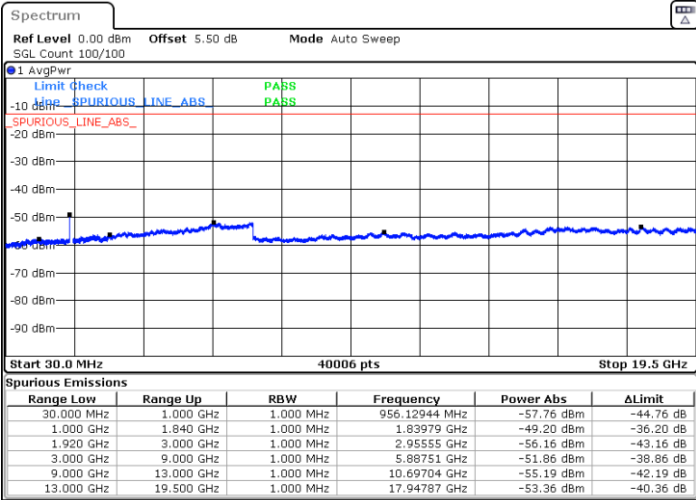




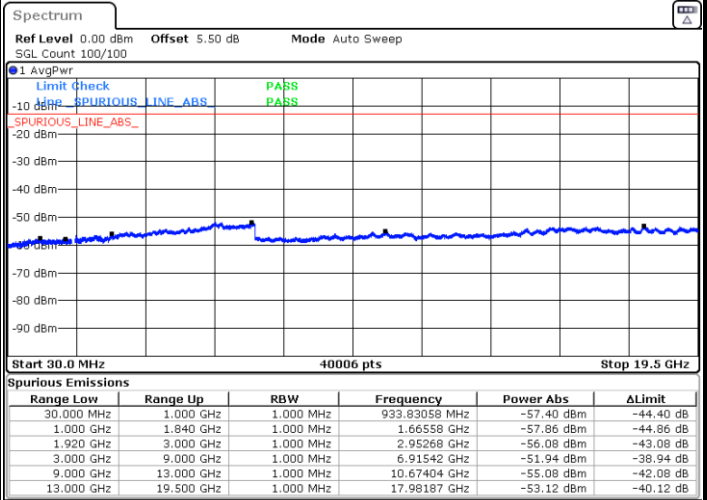
FR1 n25 / 15MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

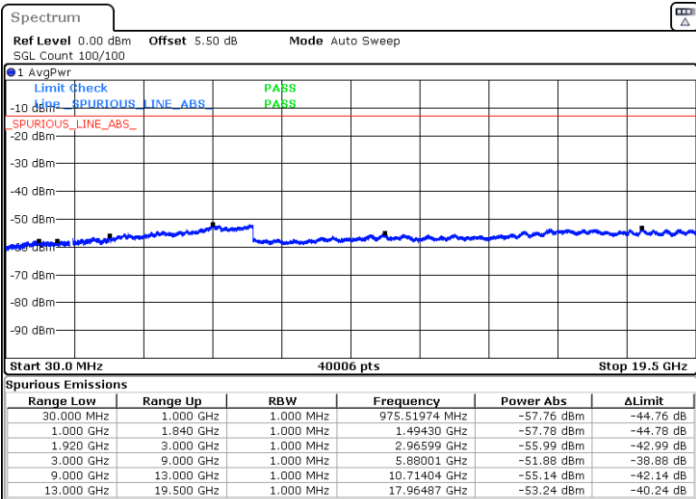


Date: 1.APR.2021 09:41:28



Date: 1.APR.2021 09:49:11

Highest Channel / 1RB1



Date: 1.APR.2021 09:47:59