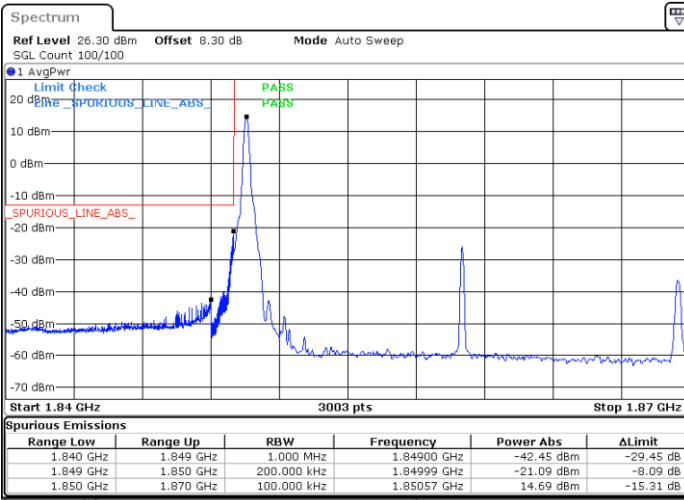




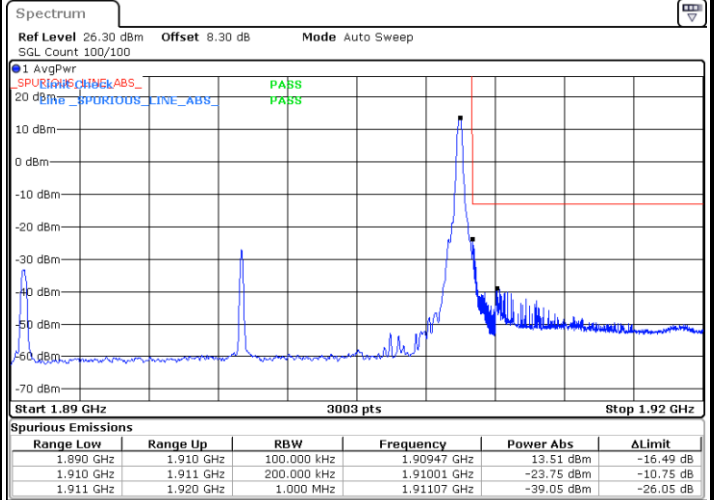
20M-256QAM

L-1RB

H-1RB



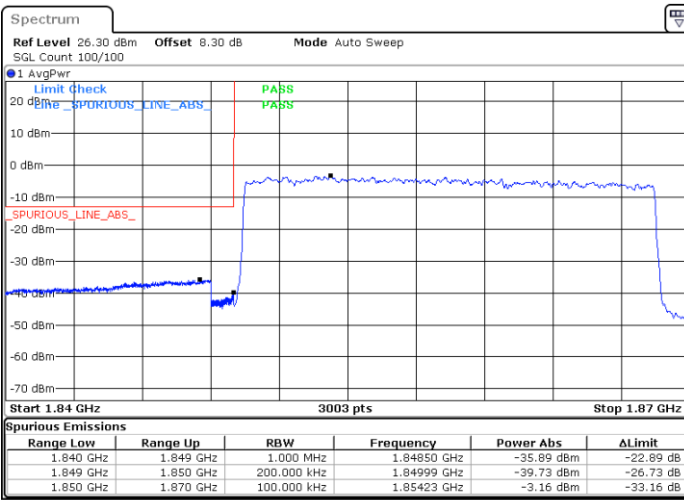
Date: 12.MAR.2021 10:00:46



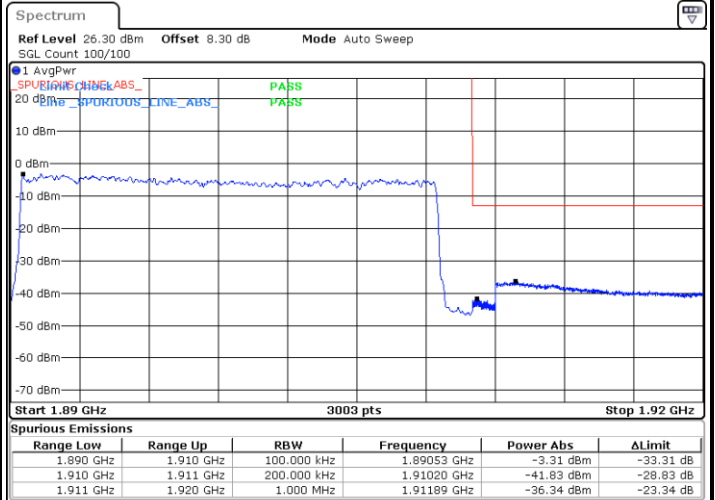
Date: 12.MAR.2021 10:02:58

L-FULLRB

H-FULLRB



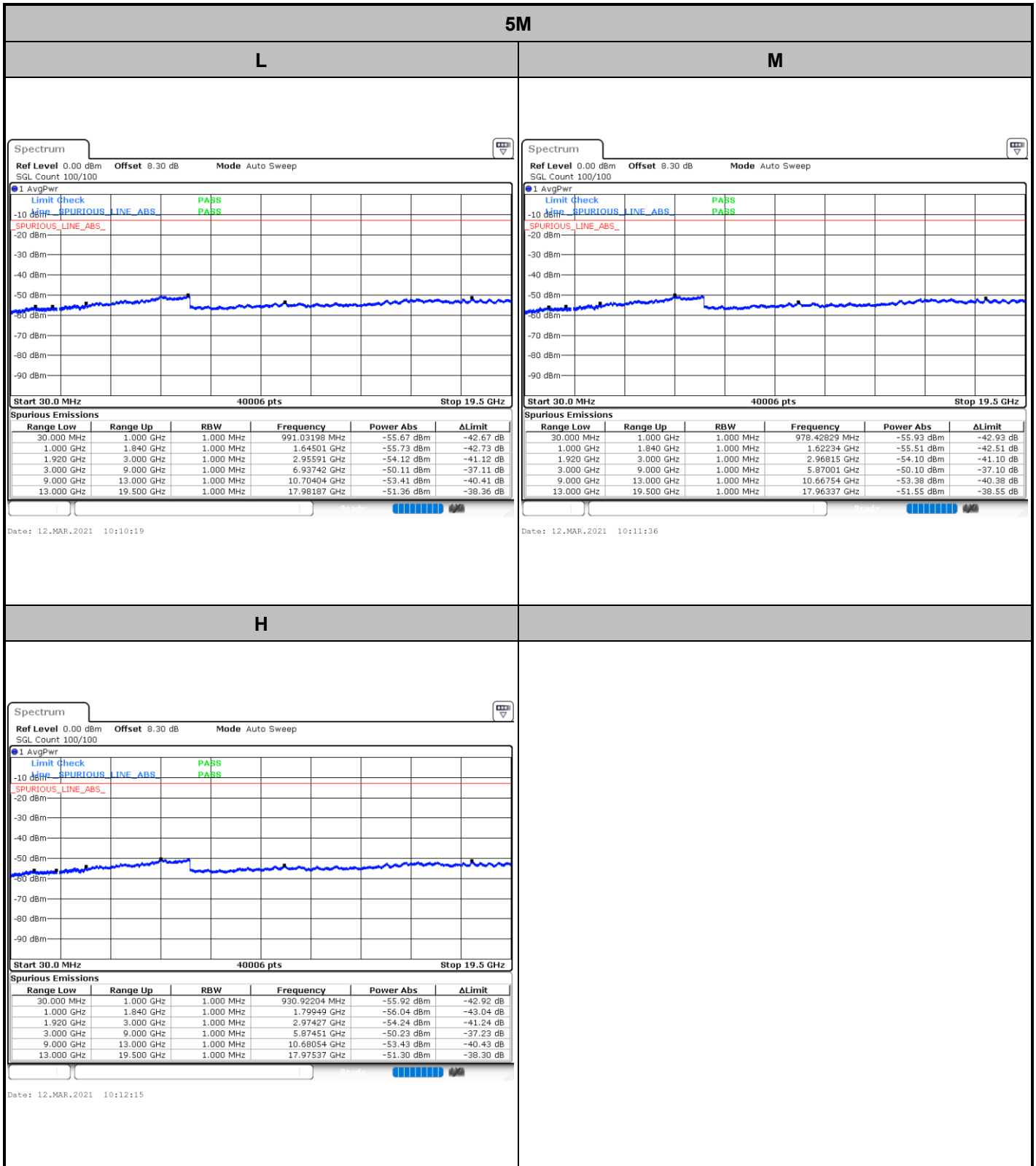
Date: 12.MAR.2021 09:58:34



Date: 12.MAR.2021 10:01:58



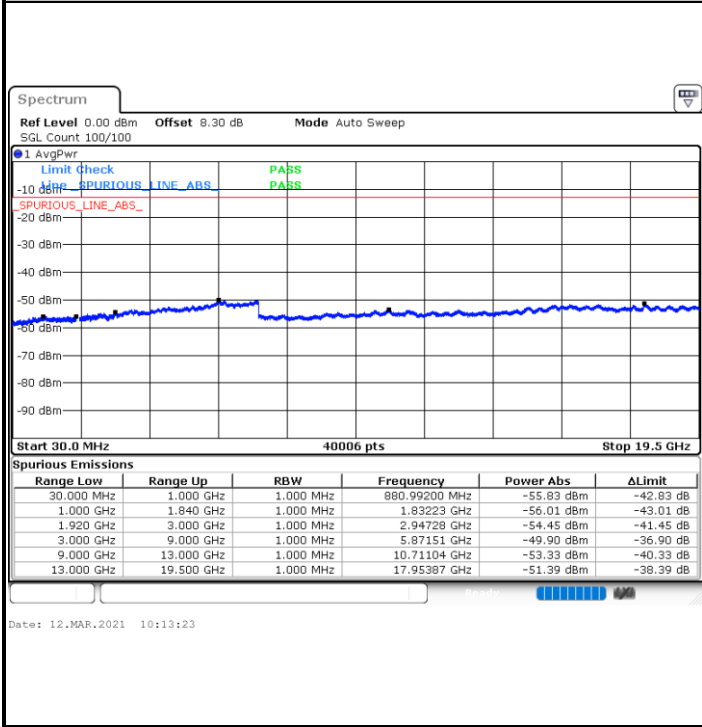
Conducted Spurious Emission



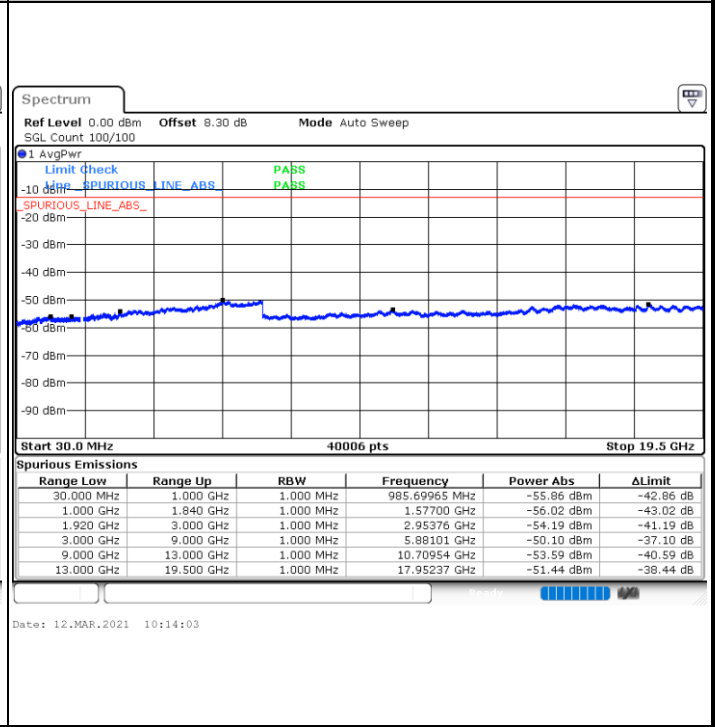


10M

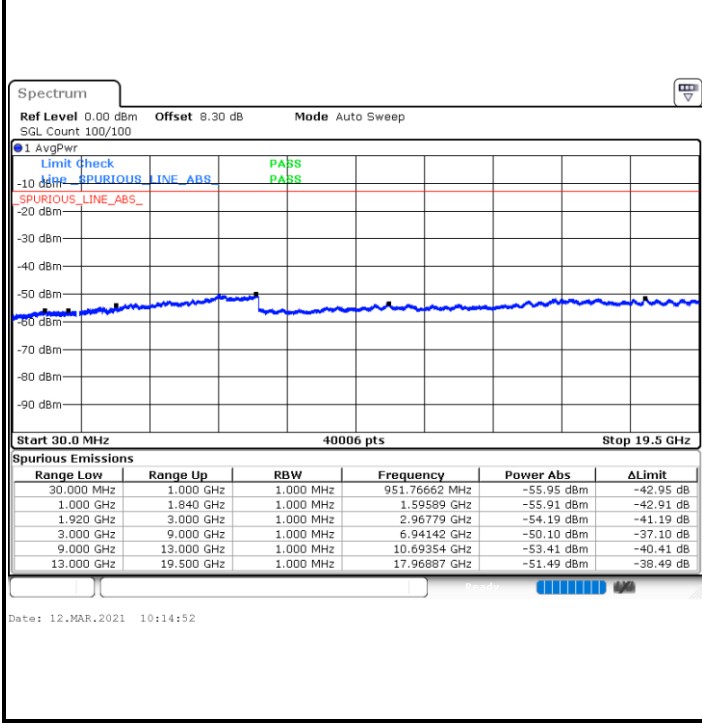
L

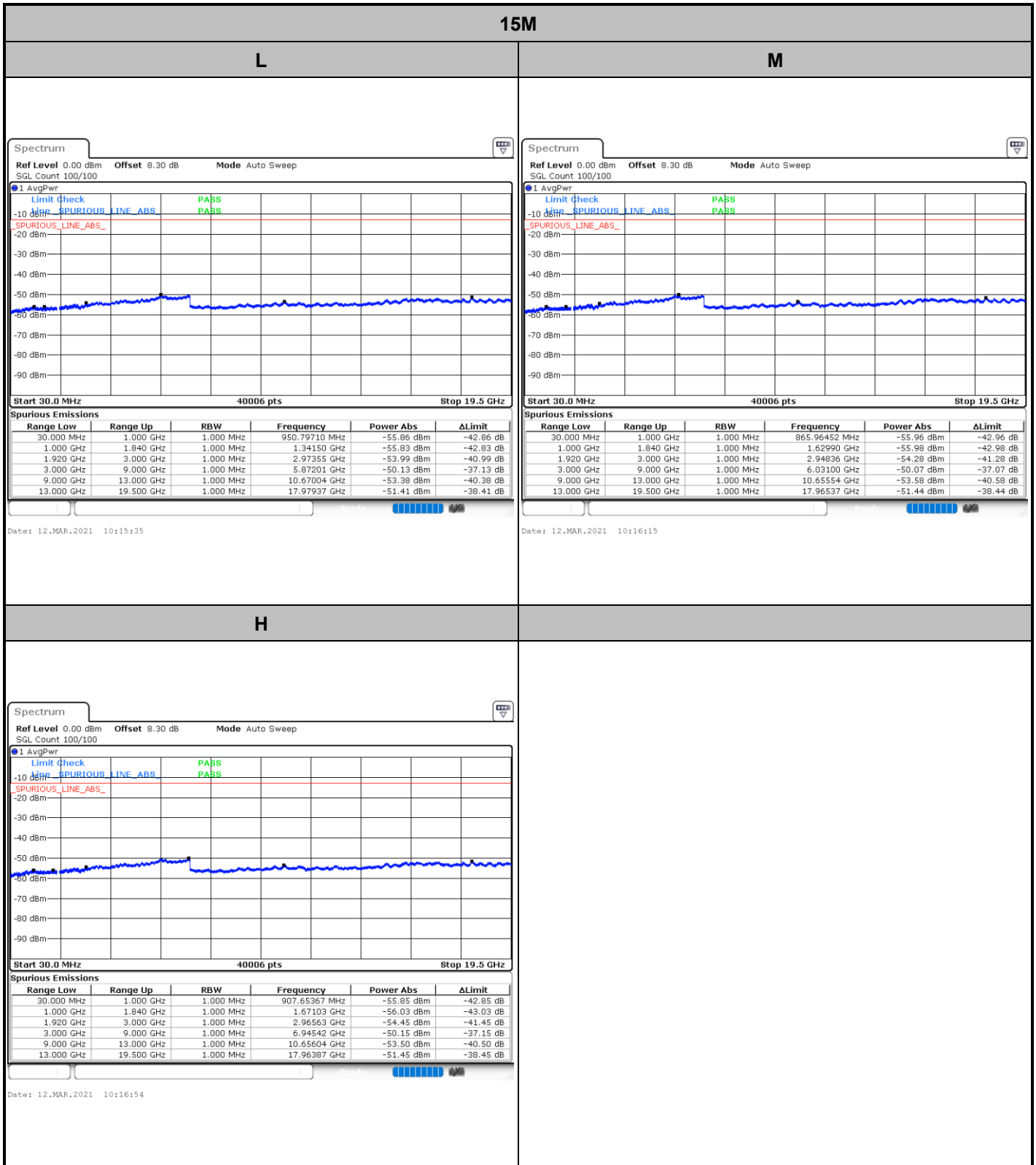


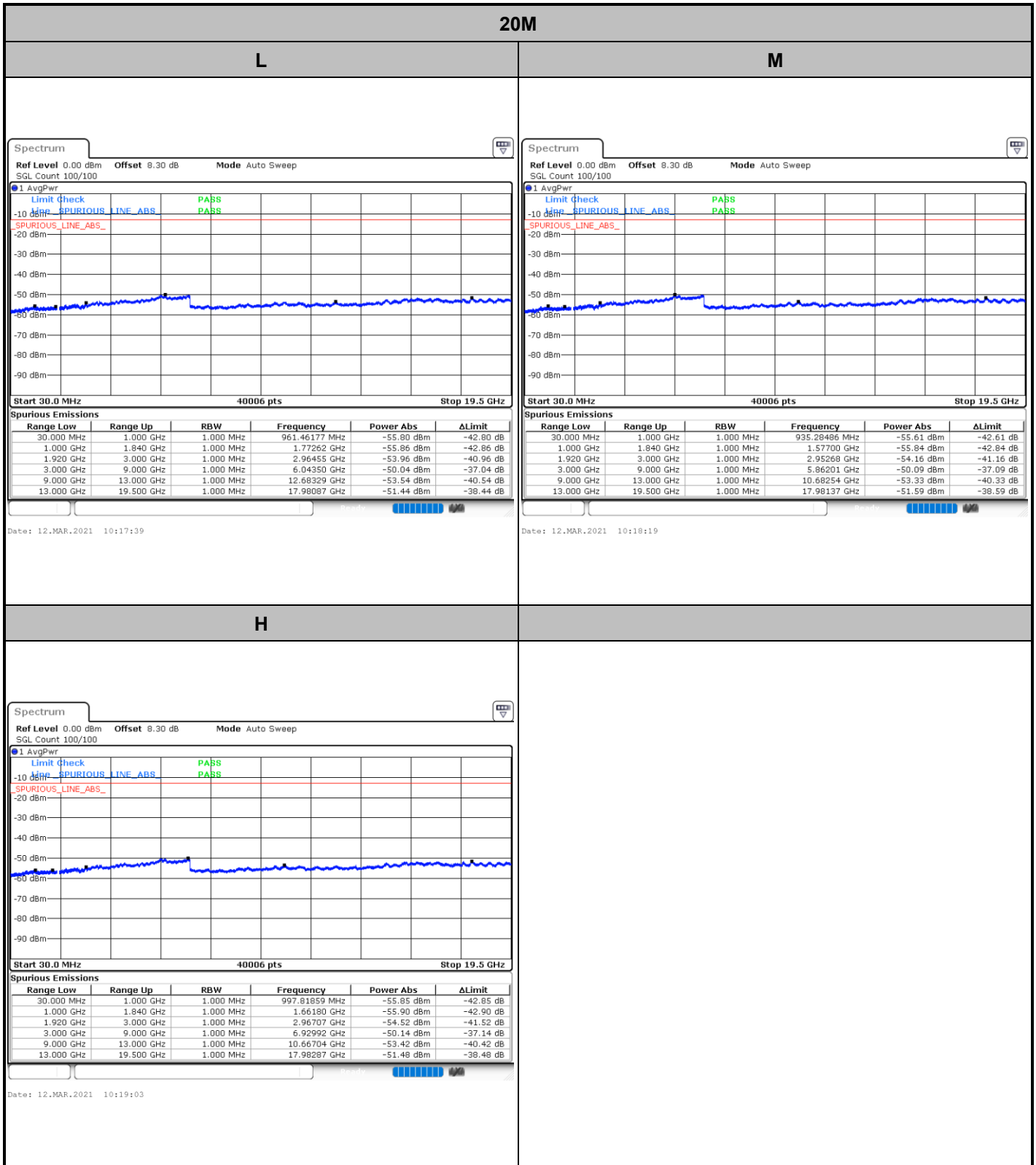
M



H









Frequency Stability

Test Conditions		FR1 n2 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0005	PASS
40	Normal Voltage	0.0006	
30	Normal Voltage	0.0009	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0002	
0	Normal Voltage	0.0012	
-10	Normal Voltage	0.0006	
-20	Normal Voltage	0.0023	
-30	Normal Voltage	0.0011	
20	Maximum Voltage	0.0016	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0004	

Note:

1. Normal Voltage =3.80 V. ; Battery End Point (BEP) =3.40 V. ; Maximum Voltage =4.40 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



5G NR n5

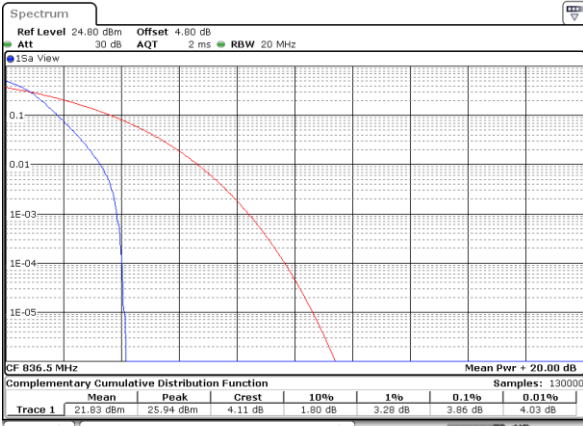
Peak-to-Average Ratio

Mode	FR1 n5 / 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	3.86	4.23	5.51	5.88	PASS
Mode	FR1 n5 / 20MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Middle CH	6.35				PASS



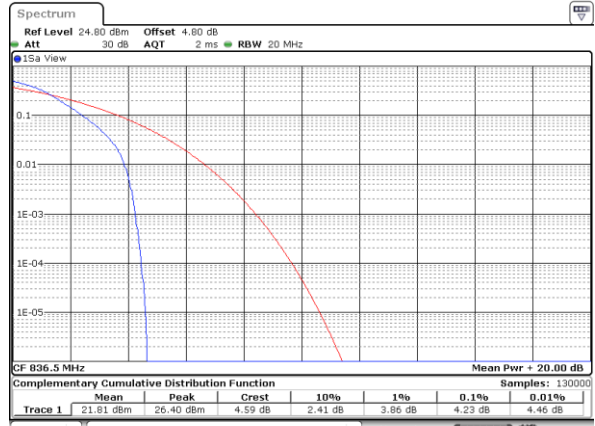
FR1 n5 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



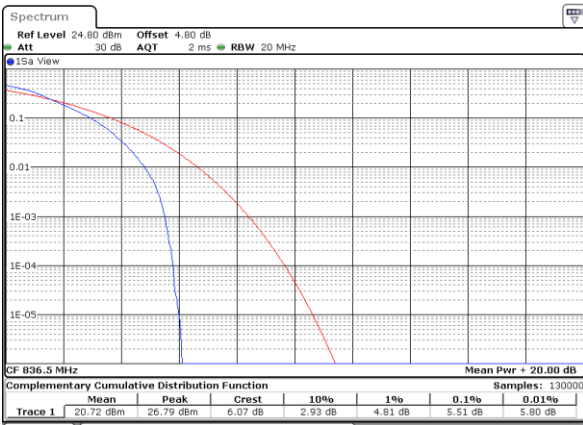
Date: 12.MAR.2021 21:25:52

QPSK



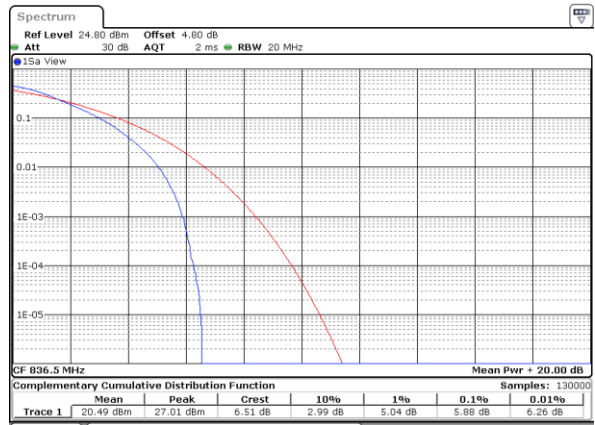
Date: 12.MAR.2021 21:25:28

16QAM



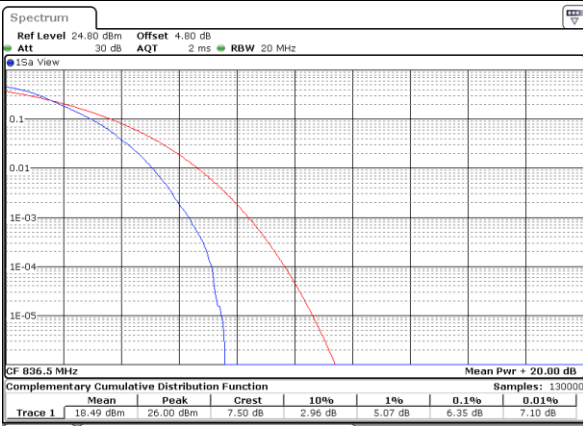
Date: 12.MAR.2021 21:25:09

64QAM



Date: 12.MAR.2021 21:24:55

256QAM

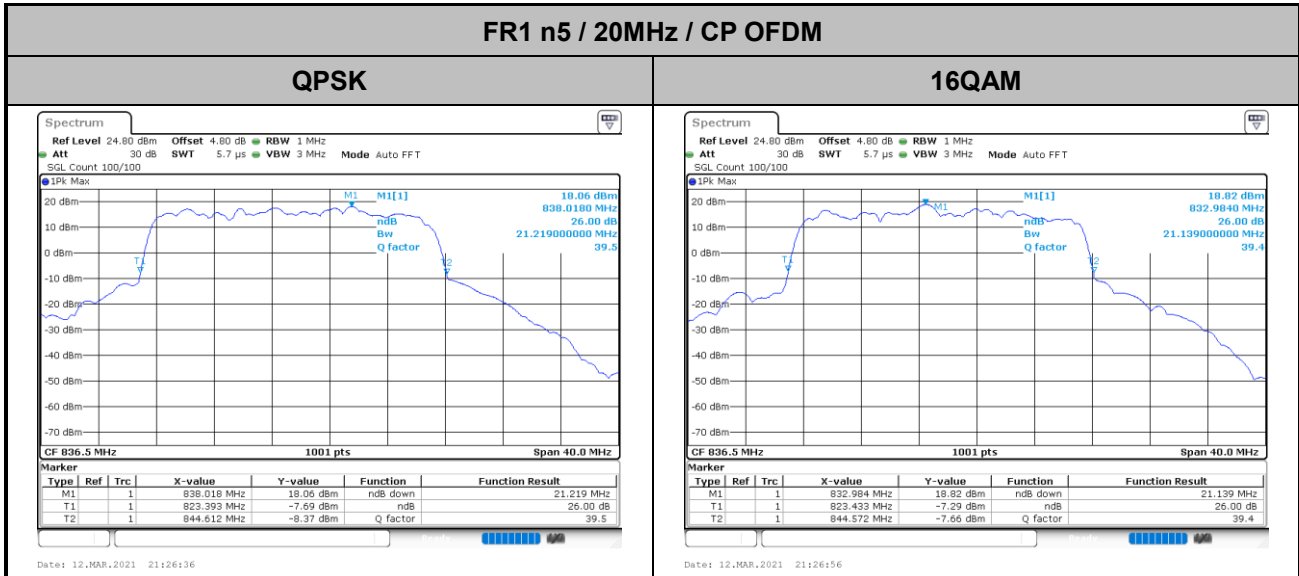


Date: 12.MAR.2021 21:24:39



26dB Bandwidth

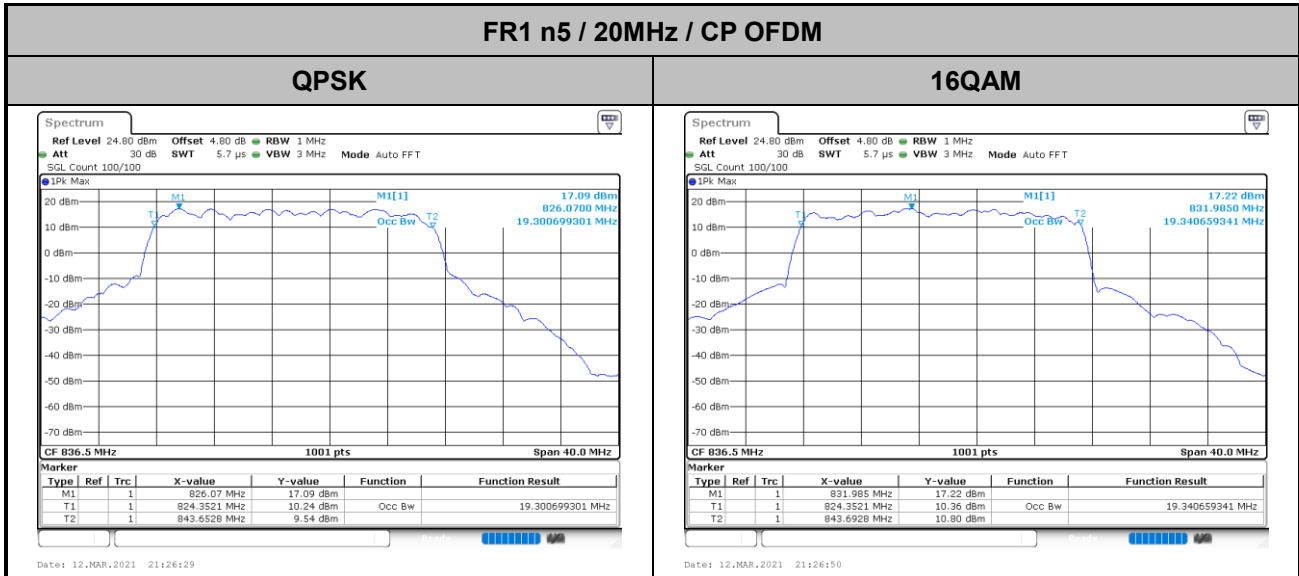
Mode	FR1 n5 : 26dB BW(MHz) / CP OFDM	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	21.219	21.139





Occupied Bandwidth

Mode	FR1 n5 : 99%OBW (MHz) / CP OFDM	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	19.30	19.34



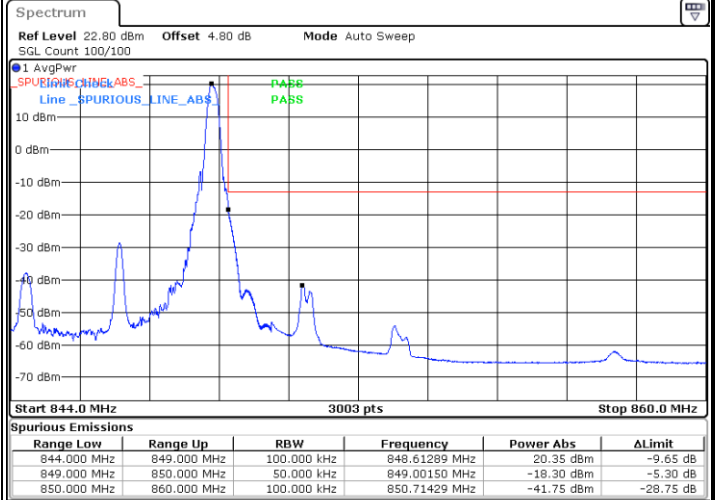
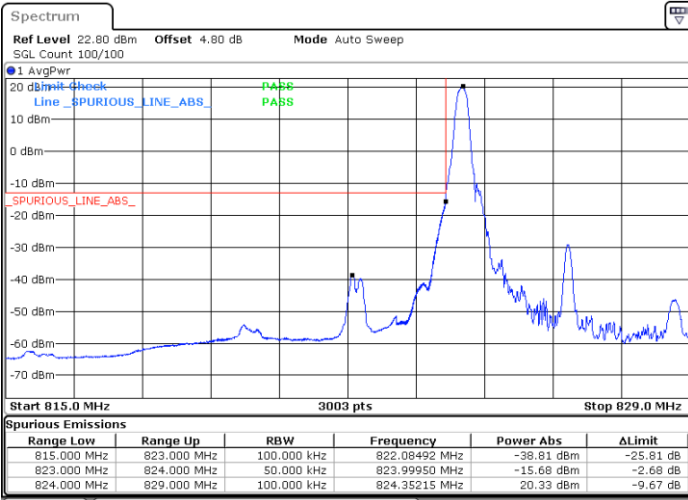


Conducted Band Edge

FR1 n5 / 5MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

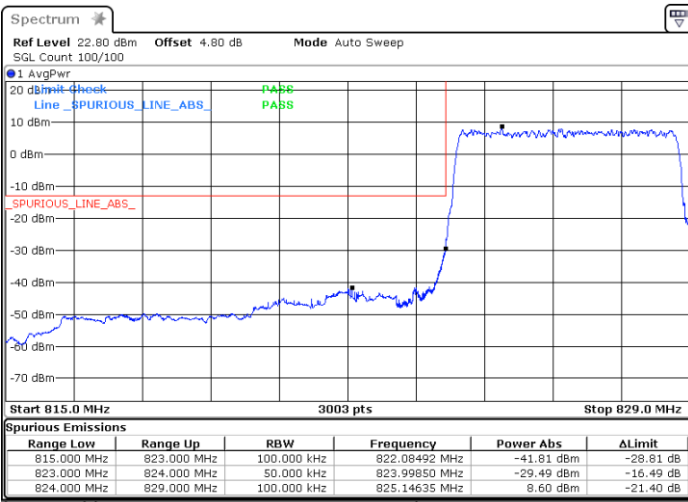


Date: 12.MAR.2021 19:55:13

Date: 12.MAR.2021 20:26:07

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 12.MAR.2021 19:38:00

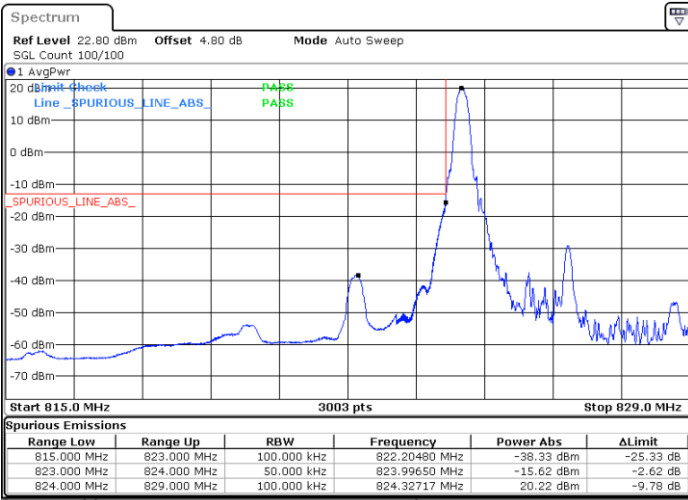
Date: 12.MAR.2021 20:03:16



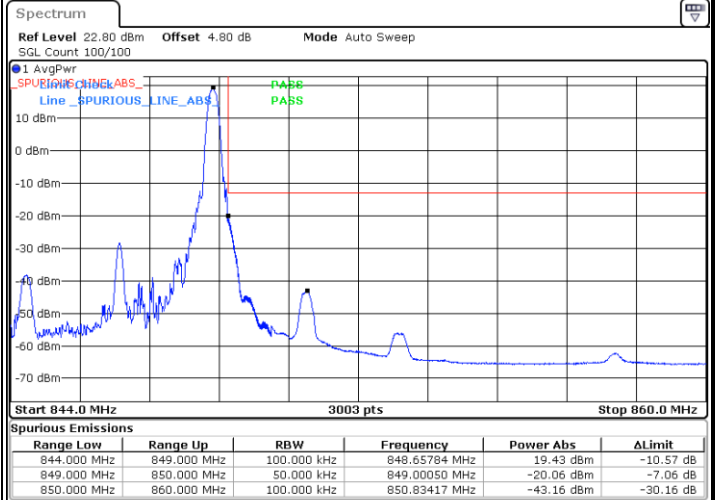
FR1 n5 / 5MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



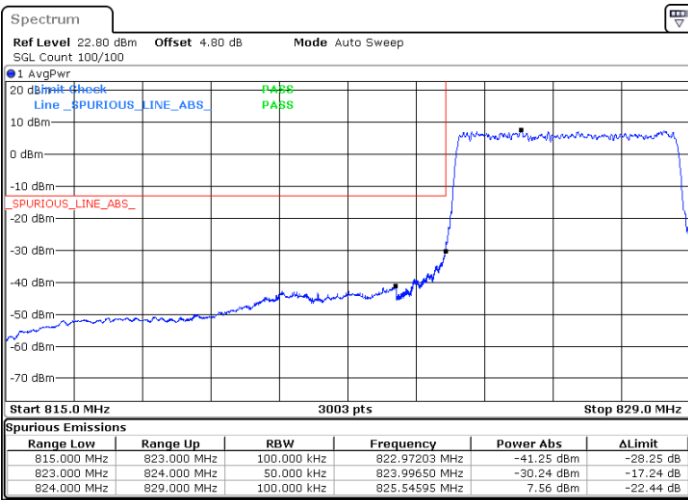
Date: 12.MAR.2021 19:54:22



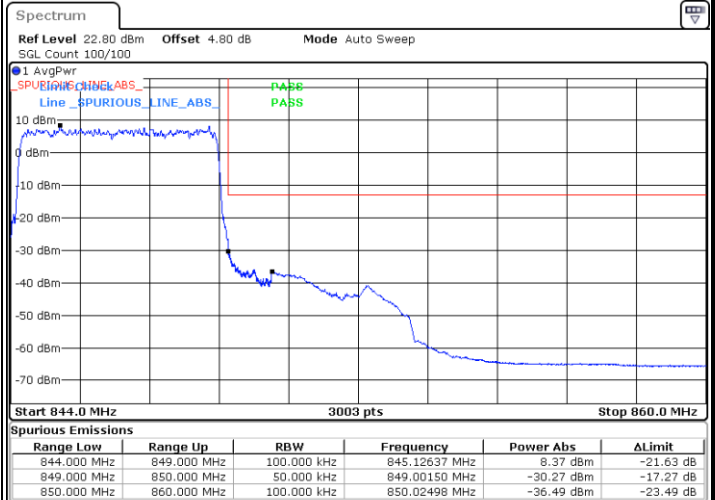
Date: 12.MAR.2021 20:25:22

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 12.MAR.2021 19:38:57



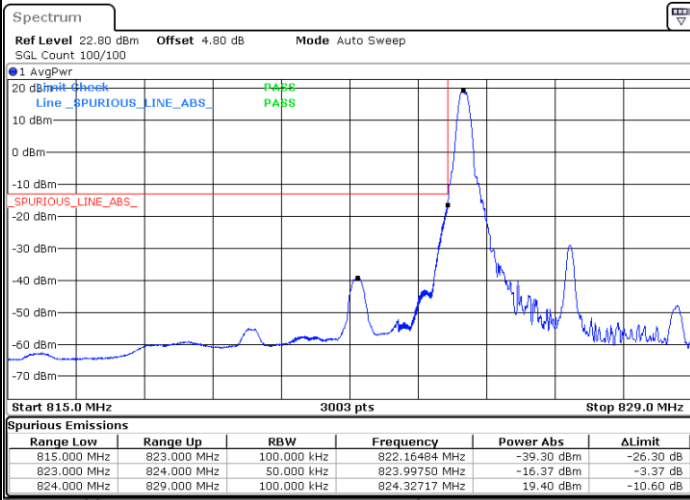
Date: 12.MAR.2021 20:04:21



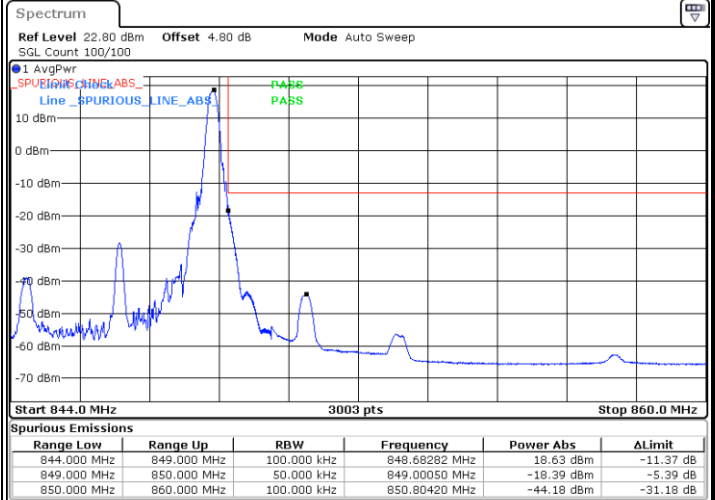
FR1 n5 / 5MHz / DFT-S OFDM / 16Q

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



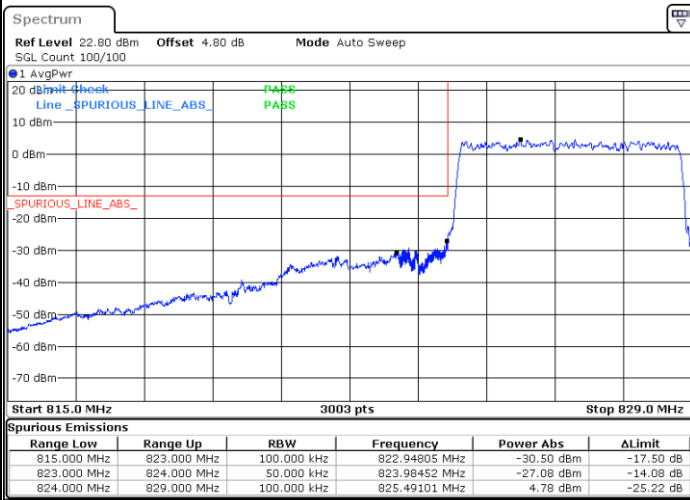
Date: 12.MAR.2021 19:53:25



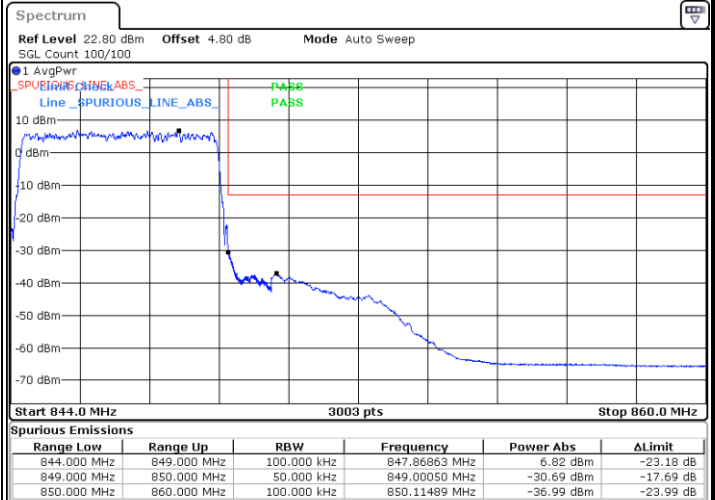
Date: 12.MAR.2021 20:24:39

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 12.MAR.2021 19:39:48



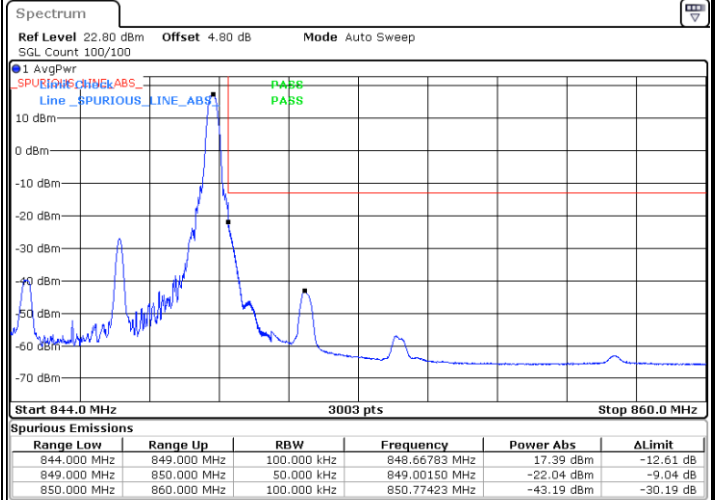
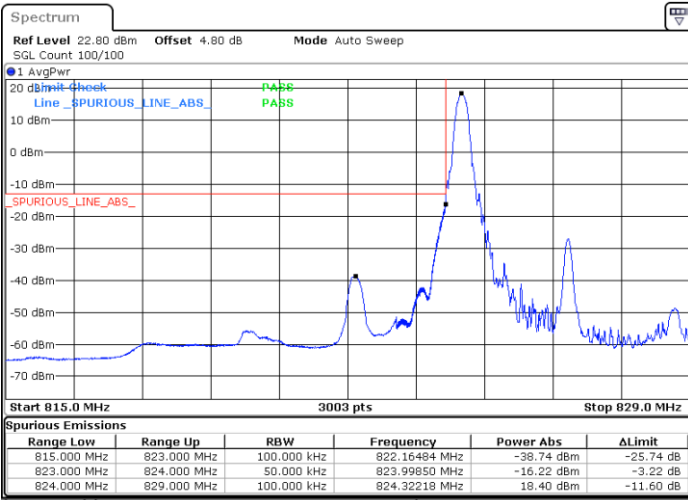
Date: 12.MAR.2021 20:05:29



FR1 n5 / 5MHz / DFT-S OFDM / 64Q

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

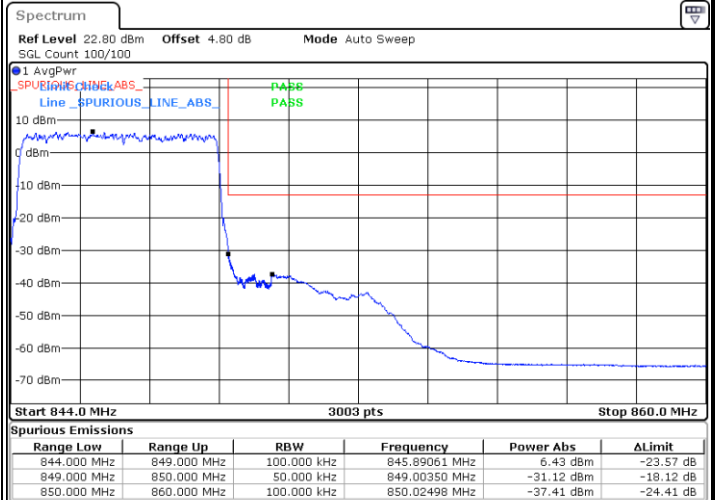
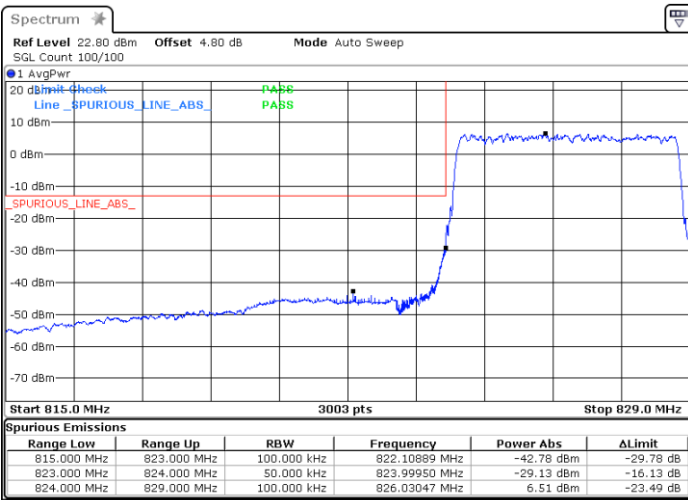


Date: 12.MAR.2021 19:52:43

Date: 12.MAR.2021 20:23:55

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 12.MAR.2021 19:48:42

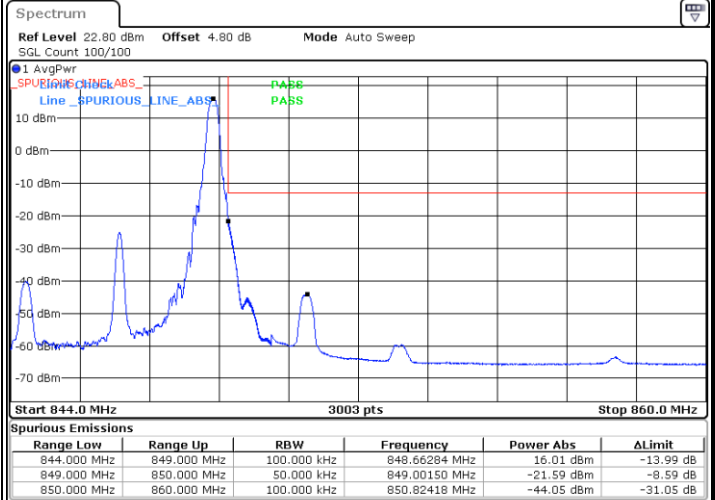
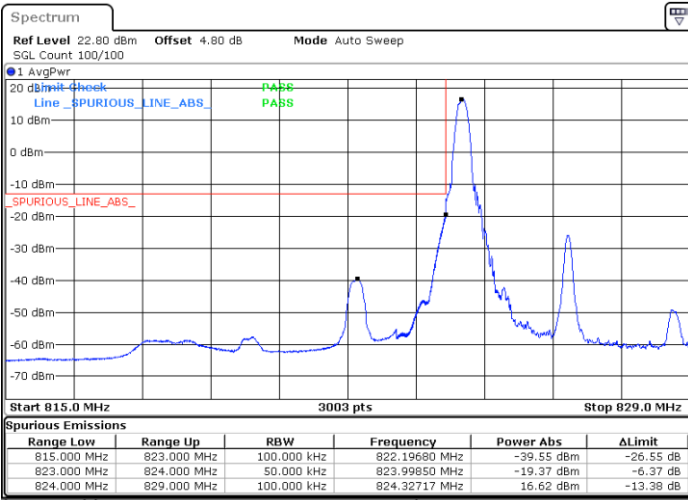
Date: 12.MAR.2021 20:21:21



FR1 n5 / 5MHz / DFT-S OFDM / 256Q

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

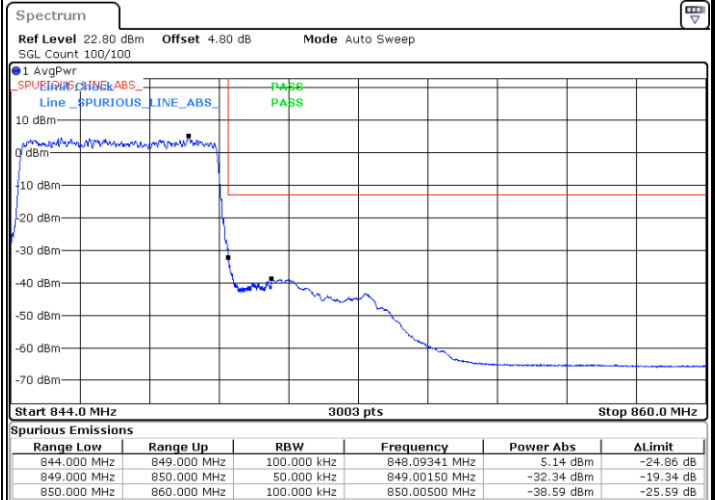
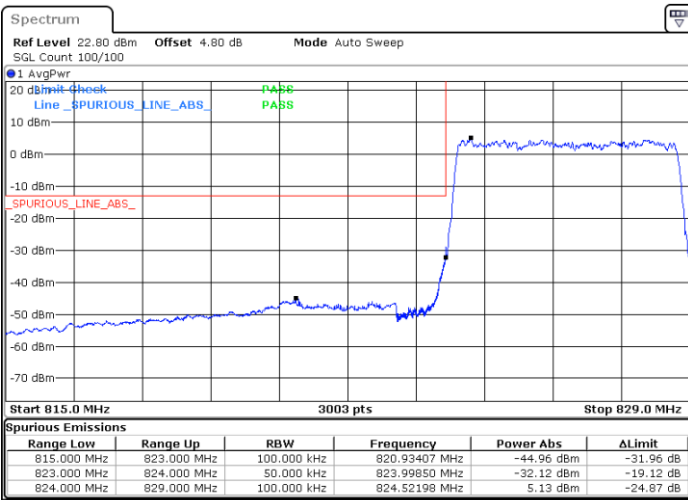


Date: 12.MAR.2021 19:52:01

Date: 12.MAR.2021 20:23:07

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 12.MAR.2021 19:49:26

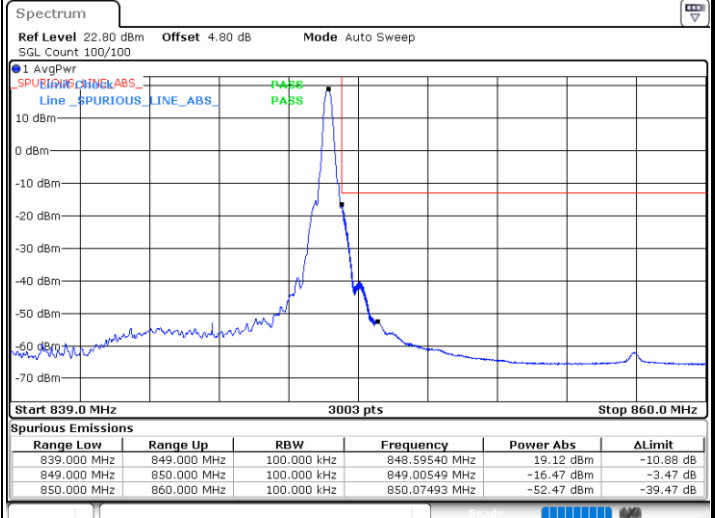
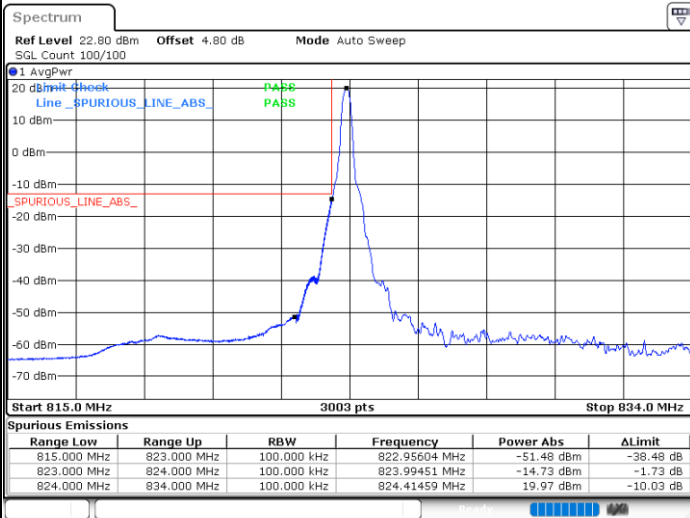
Date: 12.MAR.2021 20:22:16



FR1 n5 / 10MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

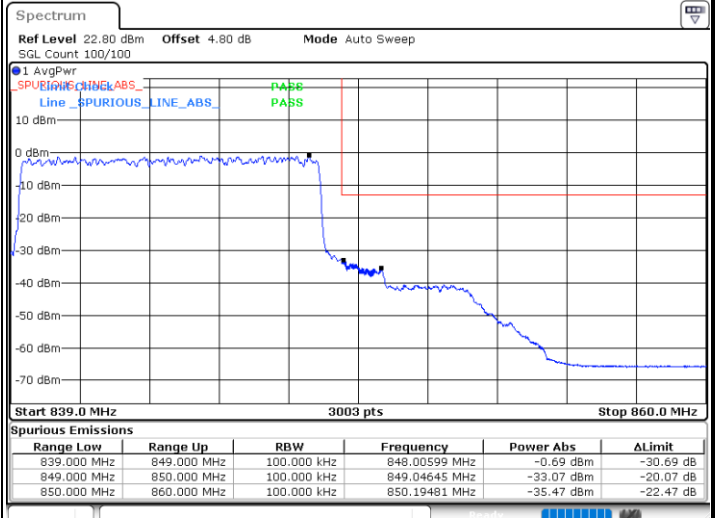
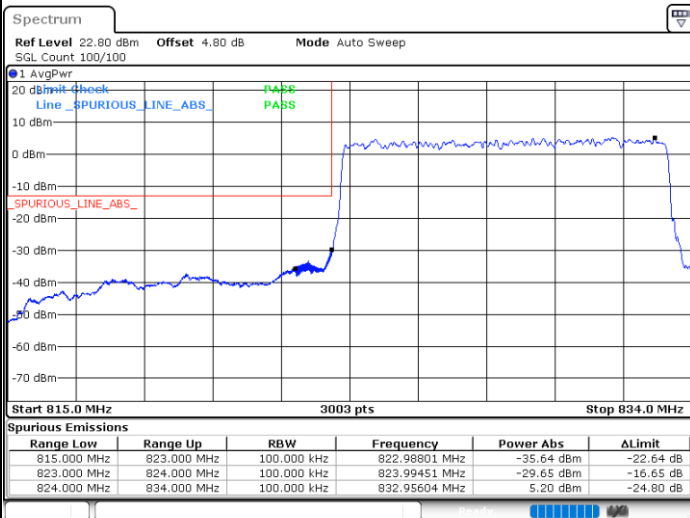


Date: 12.MAR.2021 20:34:43

Date: 12.MAR.2021 20:44:51

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 12.MAR.2021 20:27:51

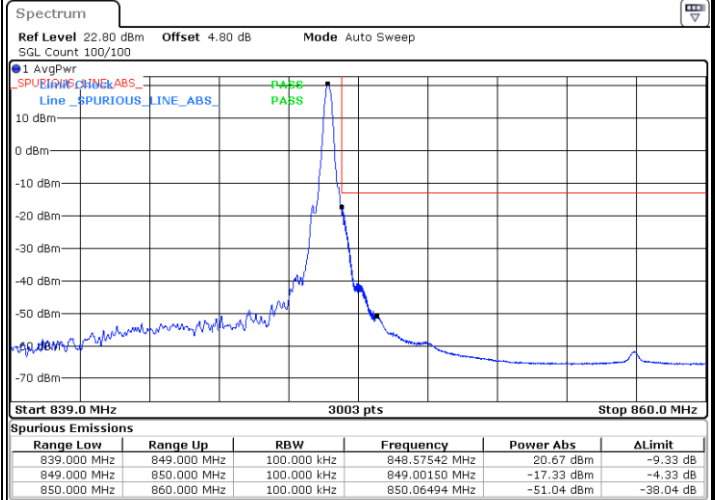
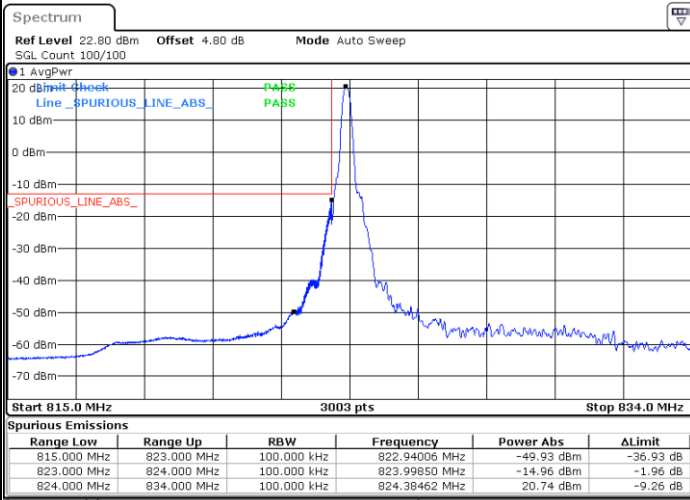
Date: 12.MAR.2021 20:38:16



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

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

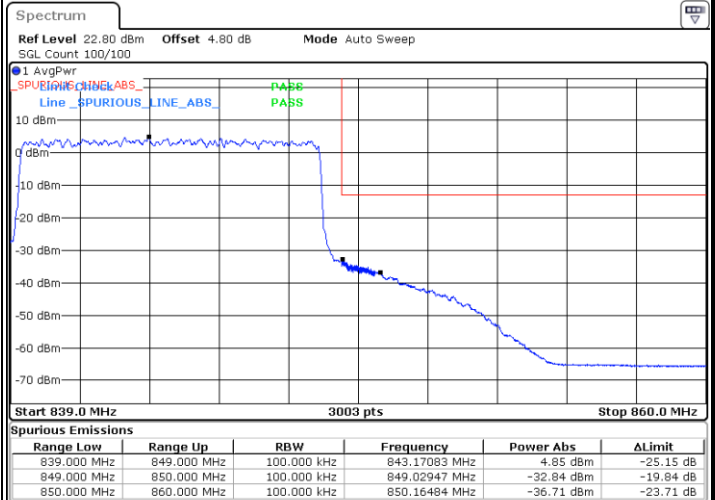
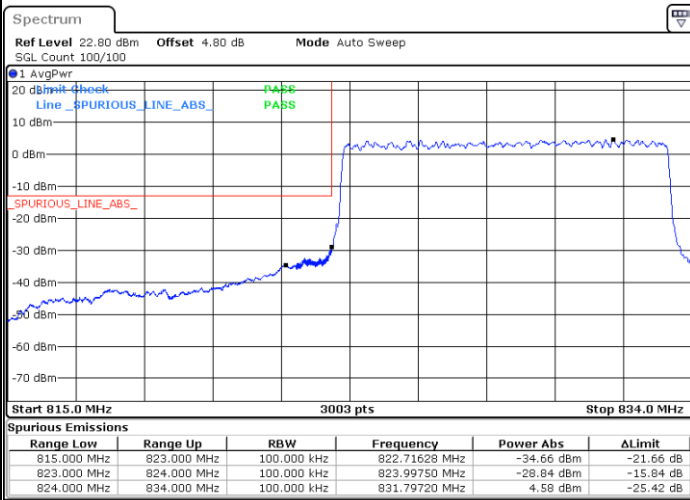


Date: 12.MAR.2021 20:34:05

Date: 12.MAR.2021 20:44:10

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 12.MAR.2021 20:28:29

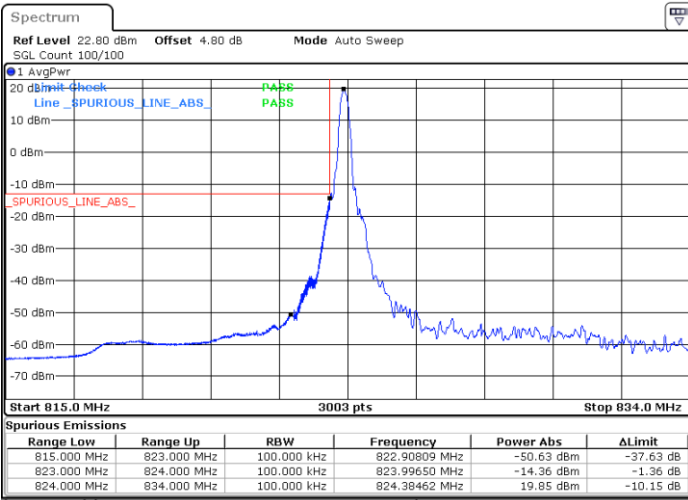
Date: 12.MAR.2021 20:38:55



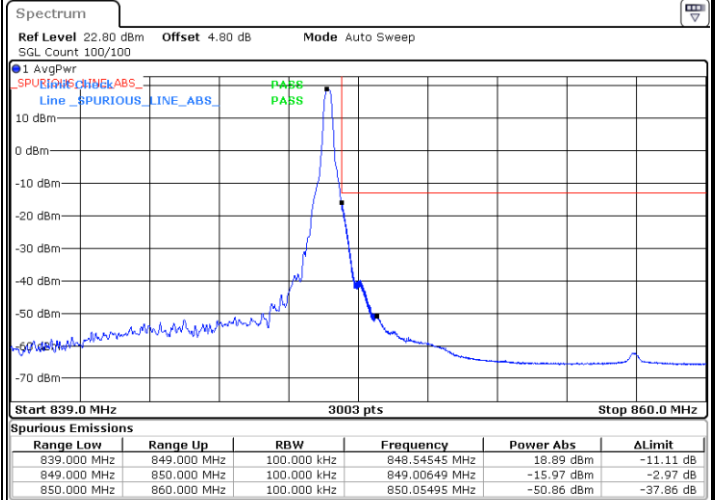
FR1 n5 / 10MHz / DFT-s-OFDM / 16QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



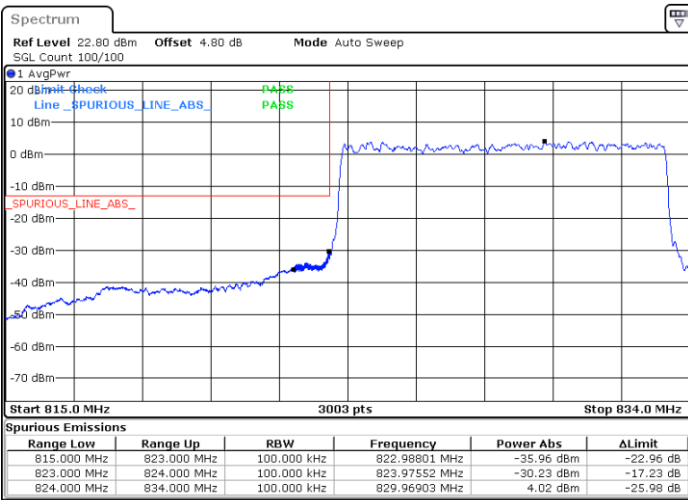
Date: 12.MAR.2021 20:33:31



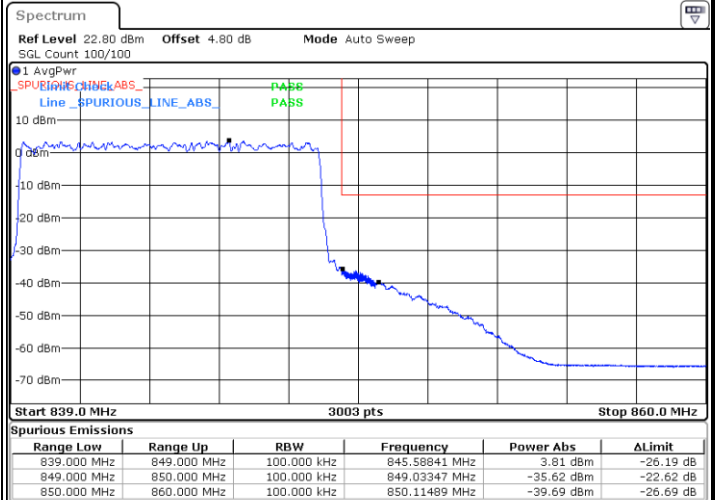
Date: 12.MAR.2021 20:43:30

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 12.MAR.2021 20:29:04



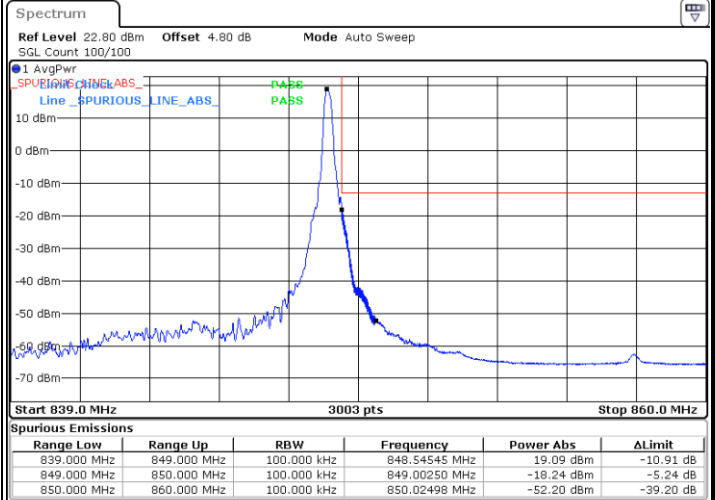
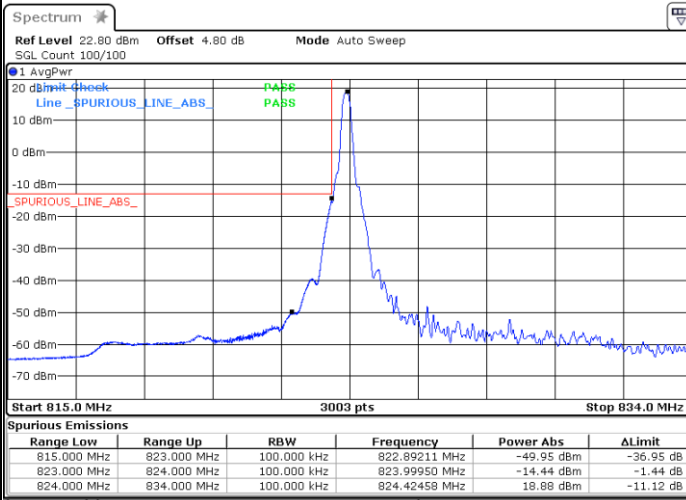
Date: 12.MAR.2021 20:40:07



FR1 n5 / 10MHz / DFT-s-OFDM / 64QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

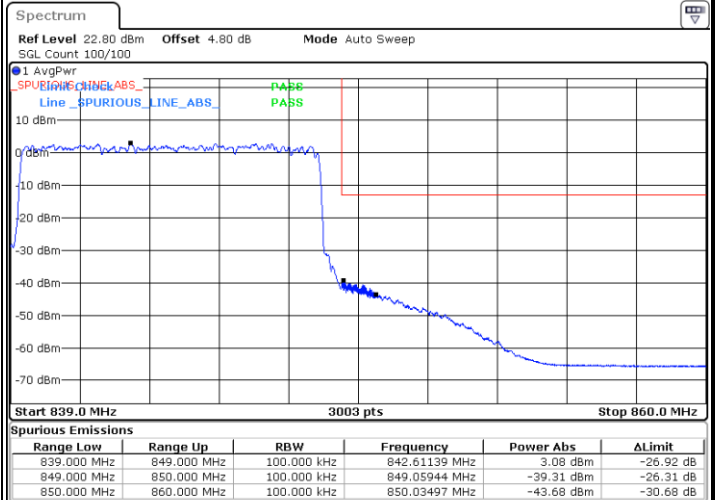
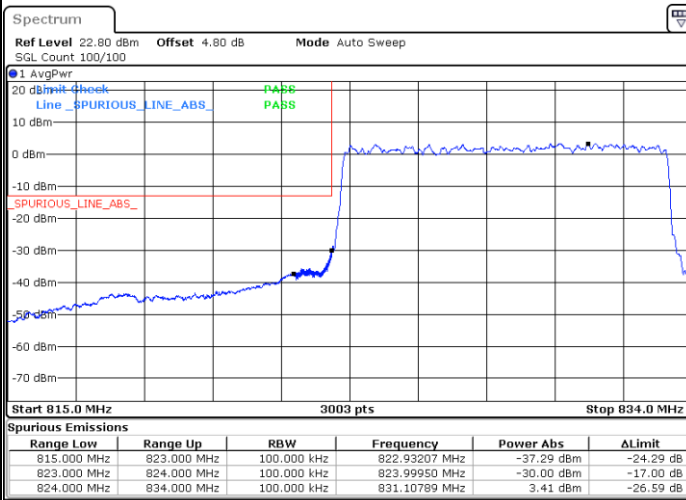


Date: 12.MAR.2021 20:32:46

Date: 12.MAR.2021 20:42:51

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 12.MAR.2021 20:29:40

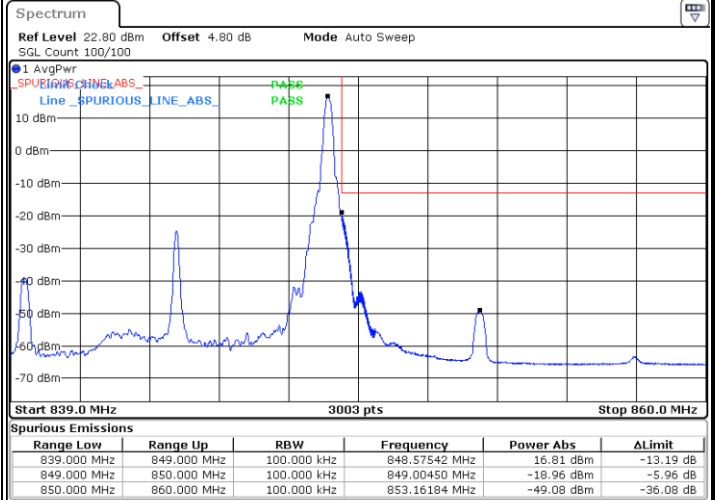
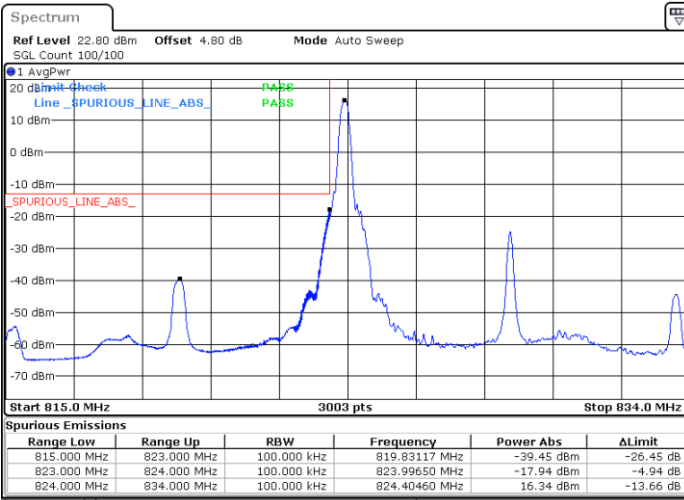
Date: 12.MAR.2021 20:40:47



FR1 n5 / 10MHz / DFT-s-OFDM / 256QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

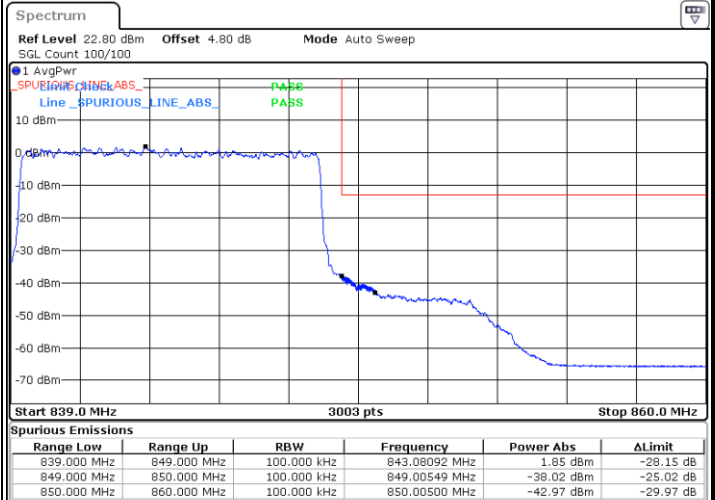
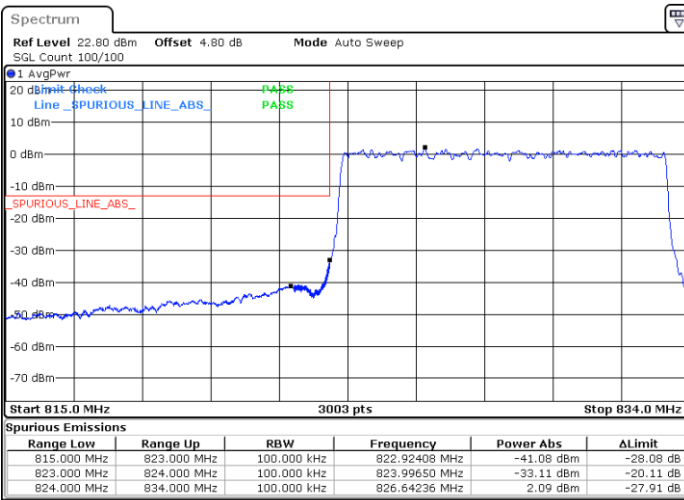


Date: 12.MAR.2021 20:30:50

Date: 12.MAR.2021 20:42:14

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 12.MAR.2021 20:30:15

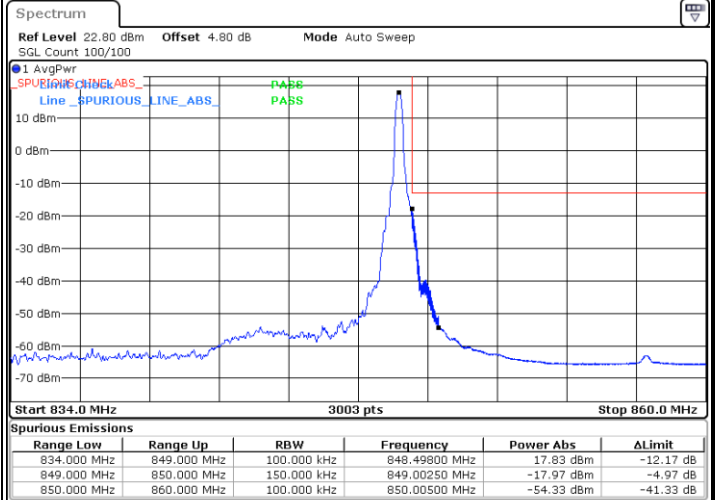
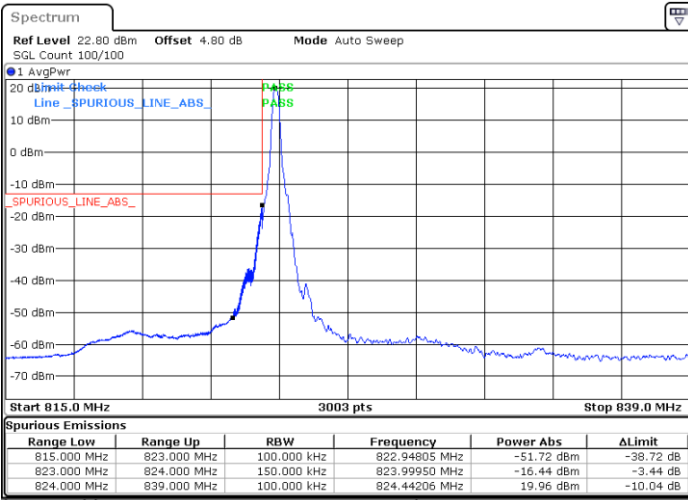
Date: 12.MAR.2021 20:41:30



FR1 n5 / 15MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

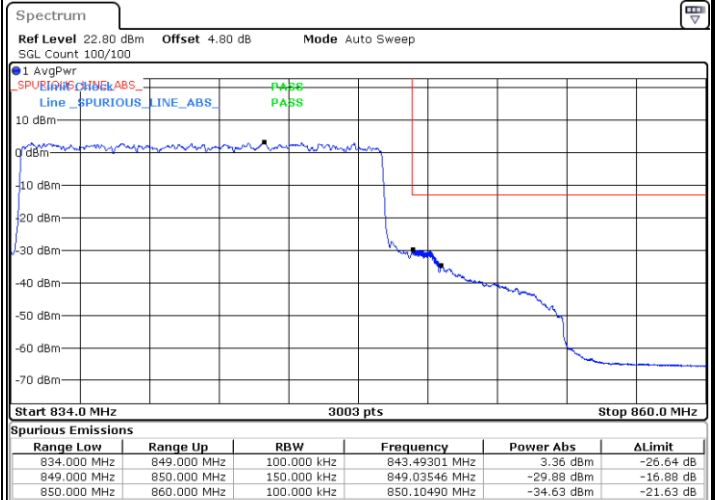
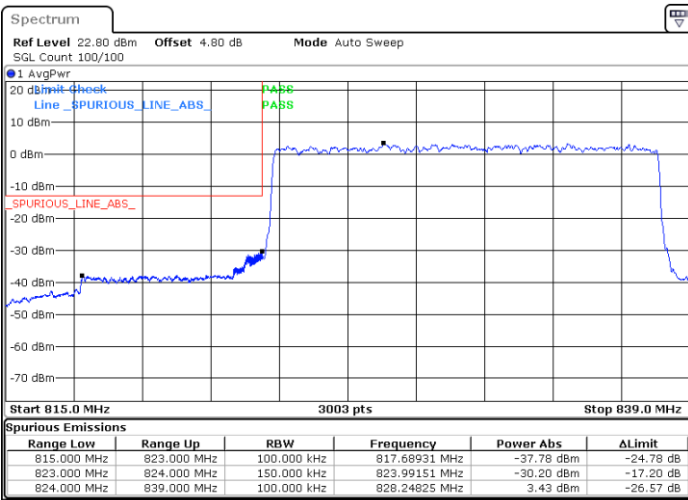


Date: 12.MAR.2021 21:01:02

Date: 12.MAR.2021 21:13:12

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 12.MAR.2021 20:55:01

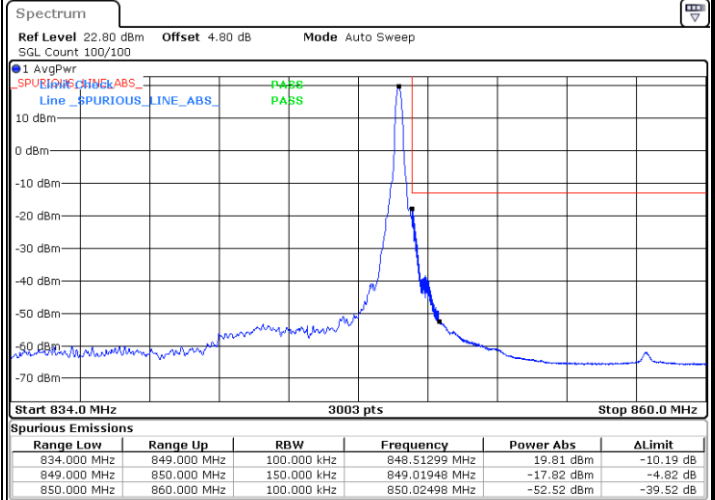
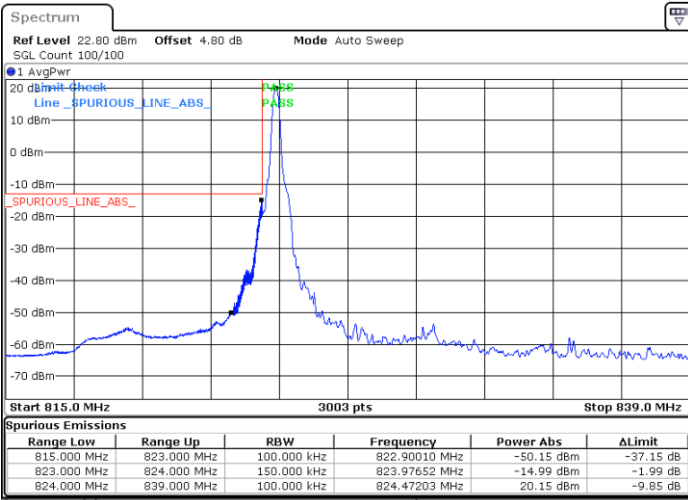
Date: 12.MAR.2021 21:05:47



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

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

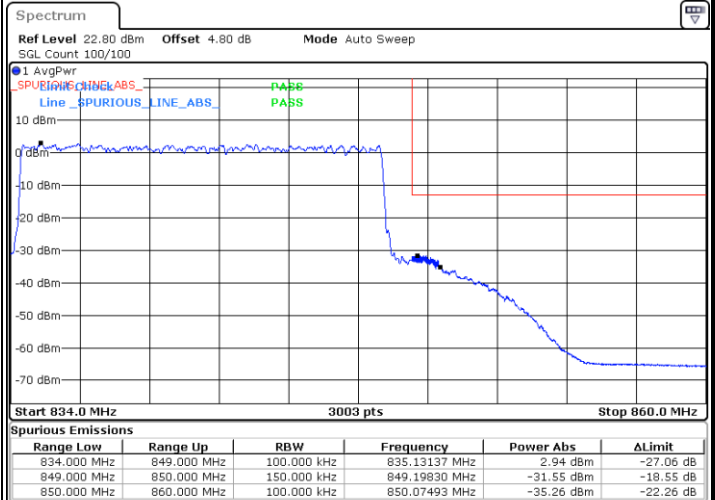
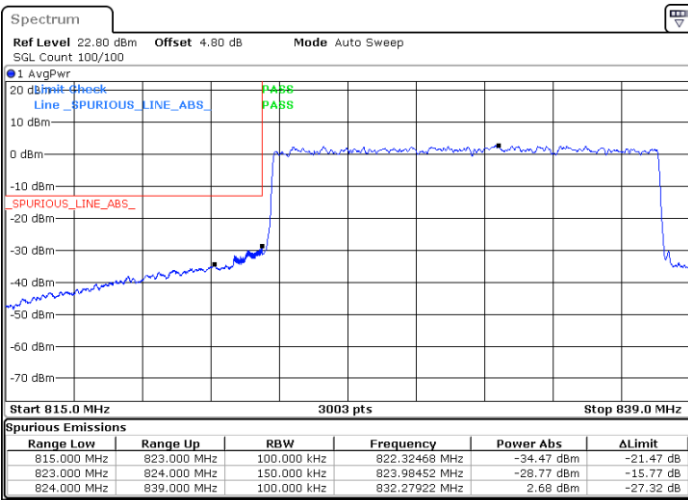


Date: 12.MAR.2021 21:00:03

Date: 12.MAR.2021 21:12:22

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 12.MAR.2021 20:55:43

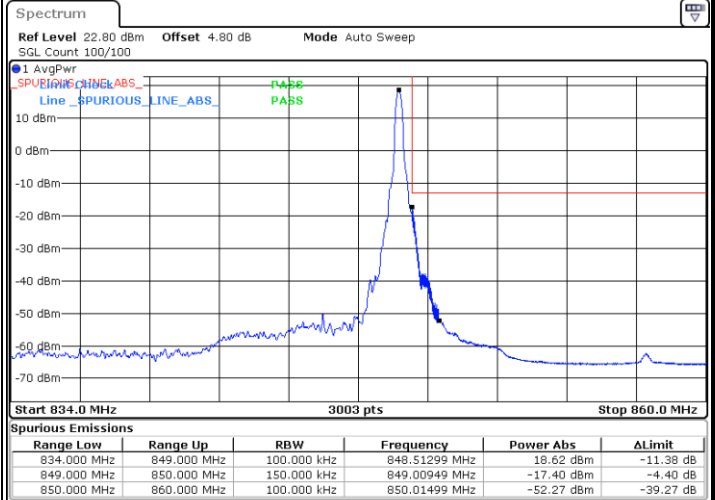
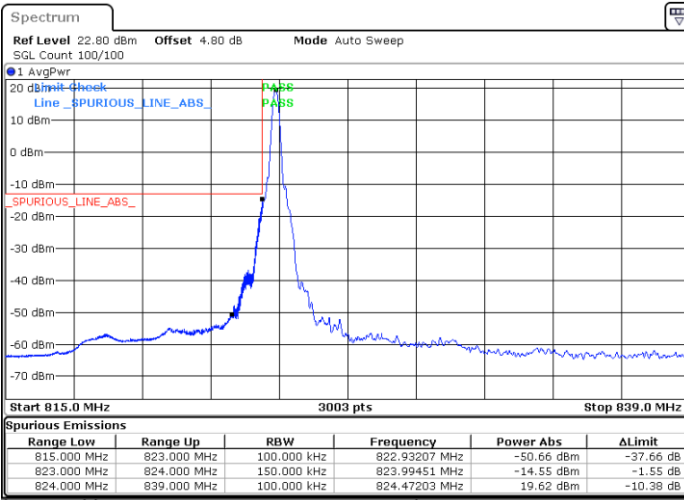
Date: 12.MAR.2021 21:07:03



FR1 n5 / 15MHz / DFT-s-OFDM / 16QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

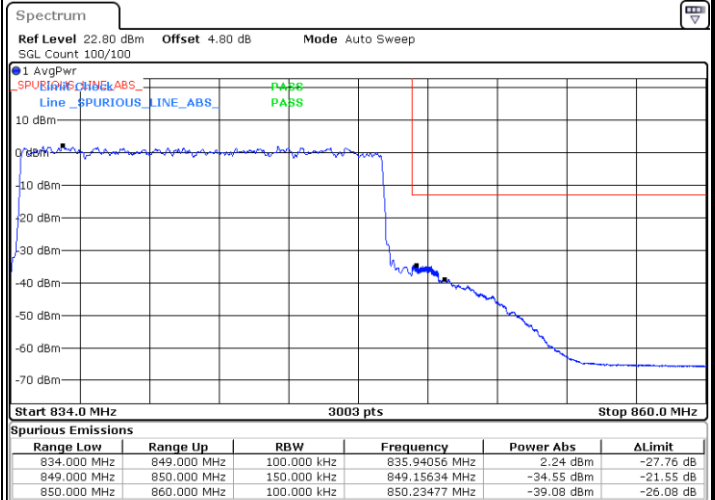
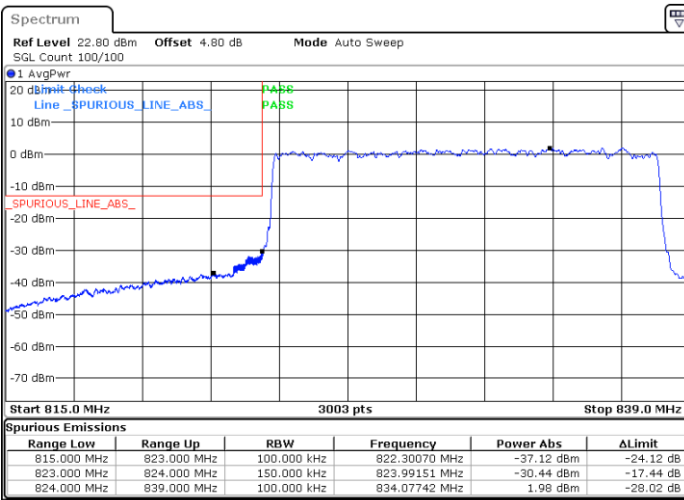


Date: 12.MAR.2021 20:59:30

Date: 12.MAR.2021 21:11:43

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 12.MAR.2021 20:56:17

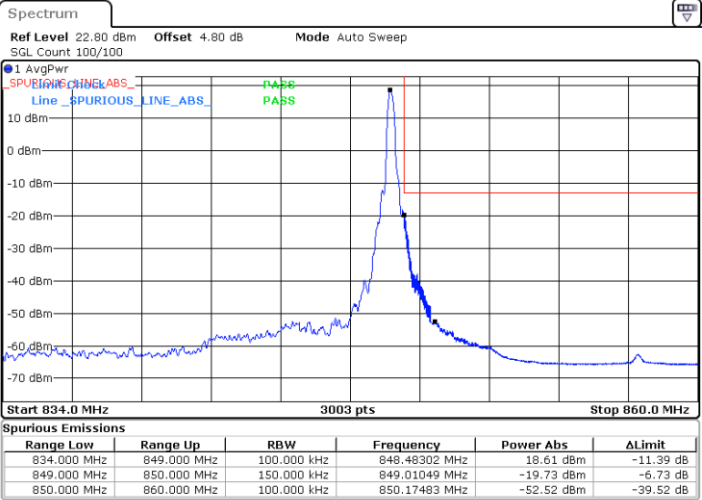
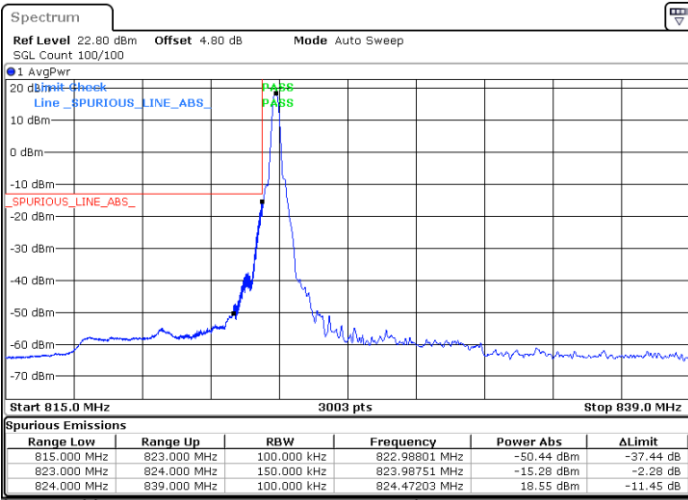
Date: 12.MAR.2021 21:07:44



FR1 n5 / 15MHz / DFT-s-OFDM / 64QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

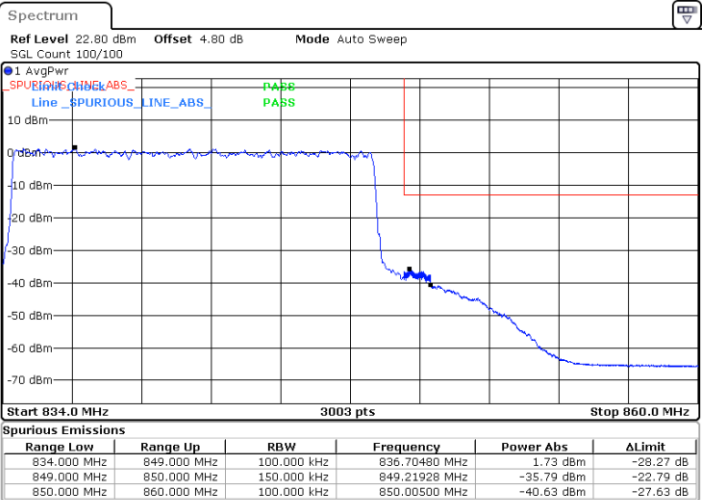
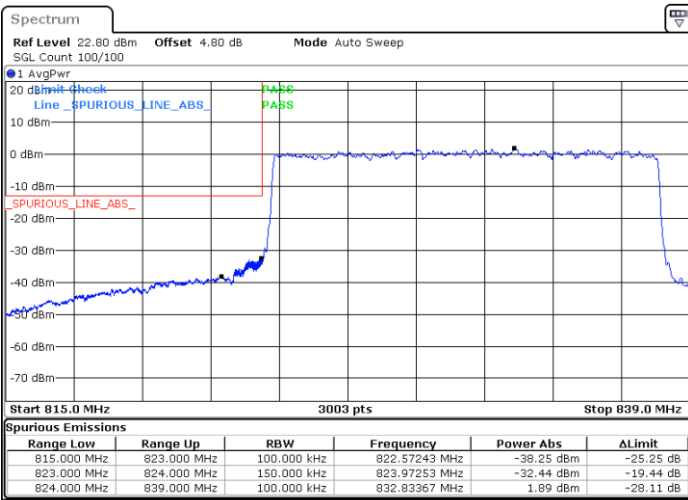


Date: 12.MAR.2021 20:58:54

Date: 12.MAR.2021 21:11:04

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 12.MAR.2021 20:56:53

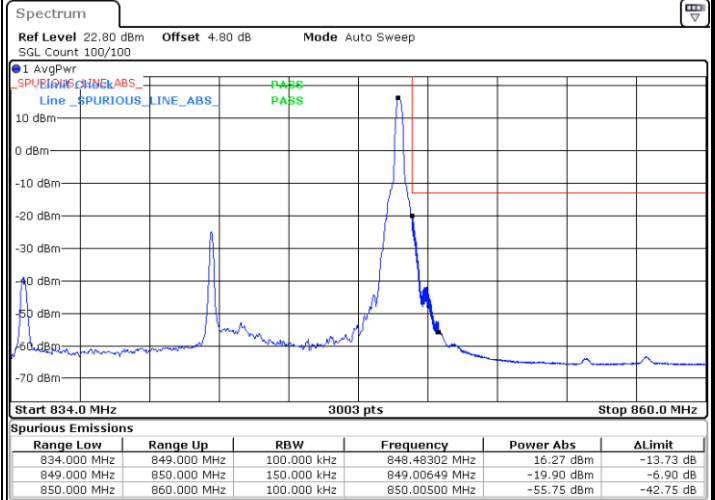
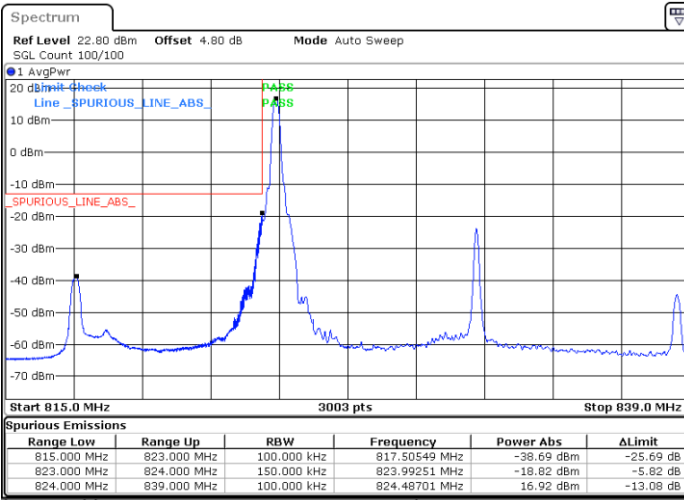
Date: 12.MAR.2021 21:08:27



FR1 n5 / 15MHz / DFT-s-OFDM / 256QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

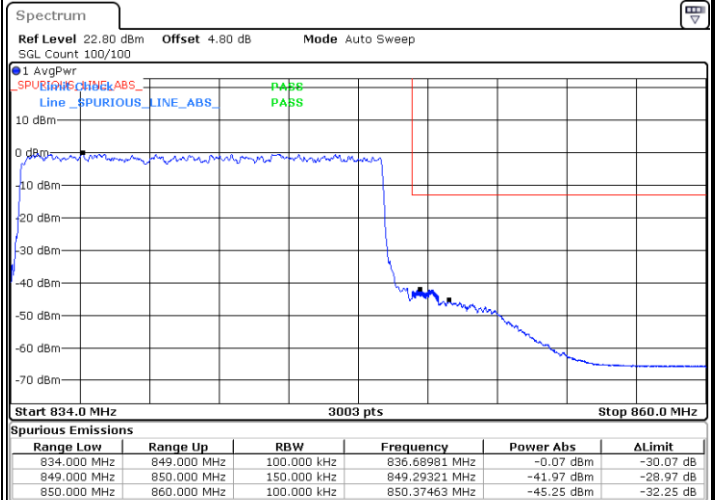
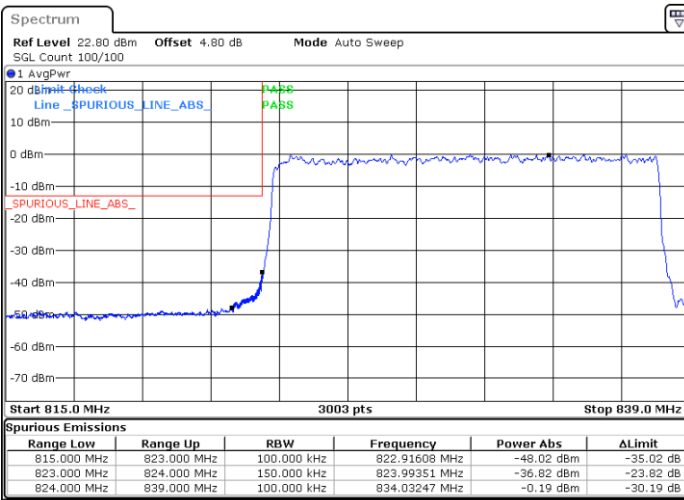


Date: 12.MAR.2021 20:58:18

Date: 12.MAR.2021 21:10:06

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 12.MAR.2021 20:57:45

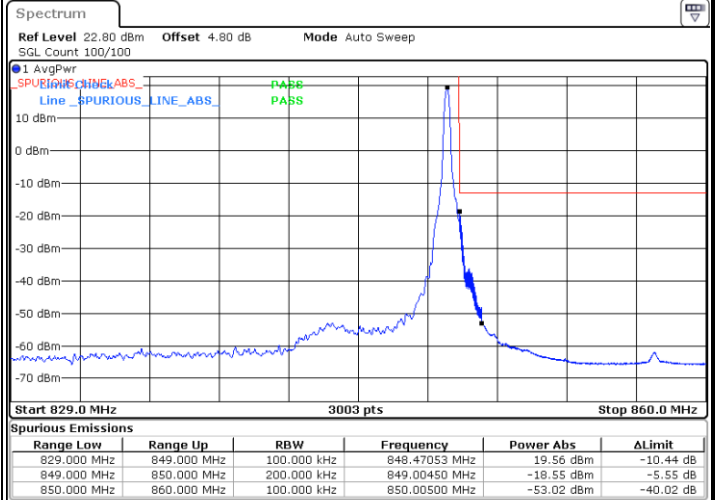
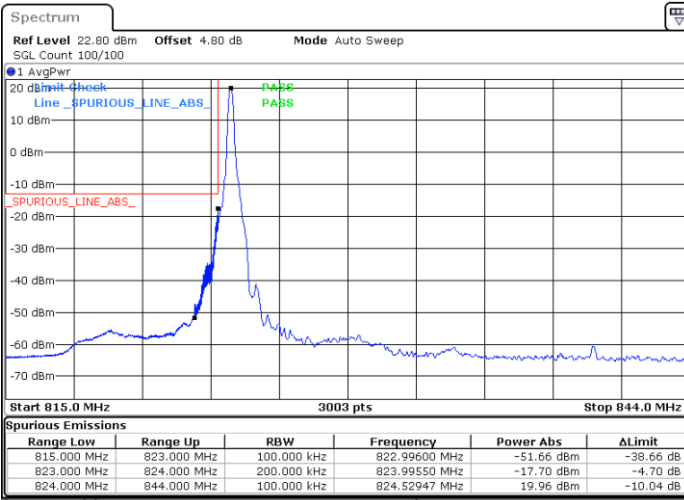
Date: 12.MAR.2021 21:09:07



FR1 n5 / 20MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

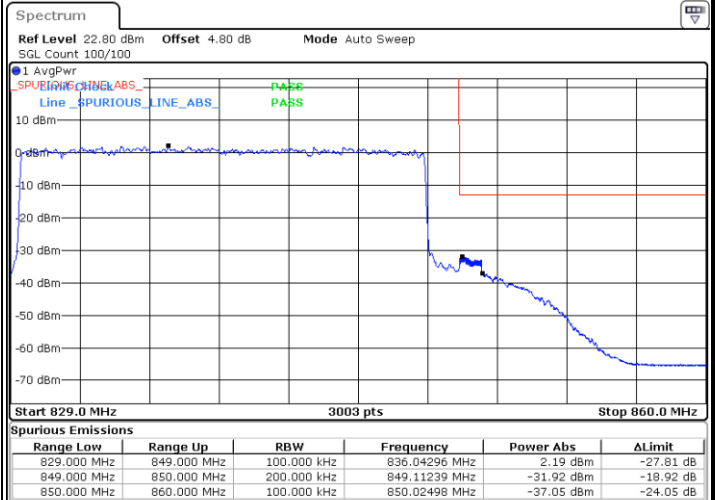
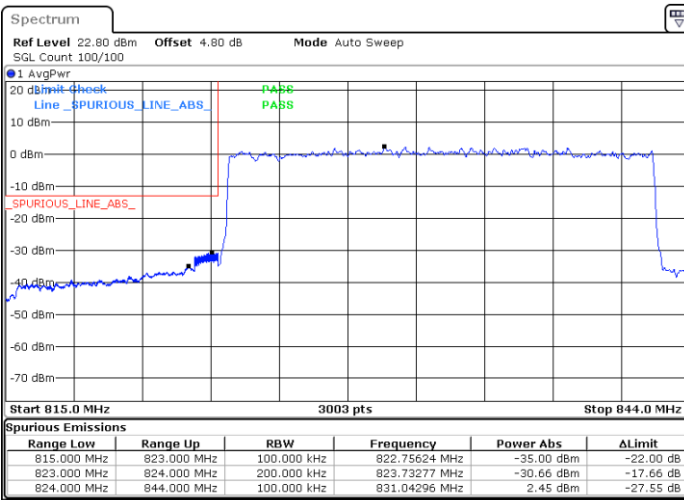


Date: 12.MAR.2021 21:20:54

Date: 12.MAR.2021 21:37:13

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 12.MAR.2021 21:15:07

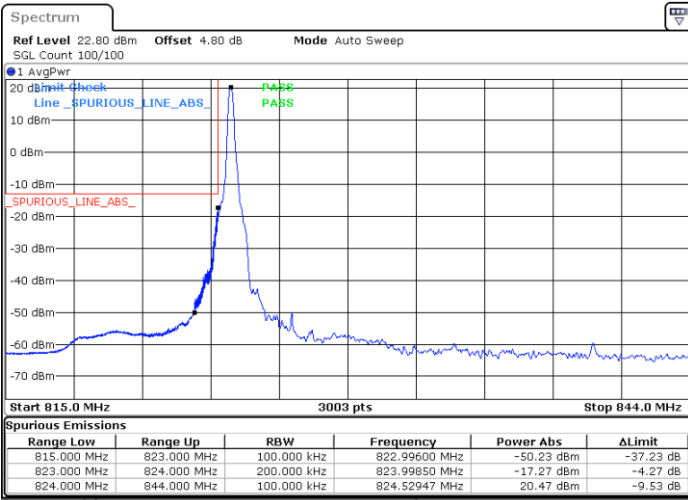
Date: 12.MAR.2021 21:31:13



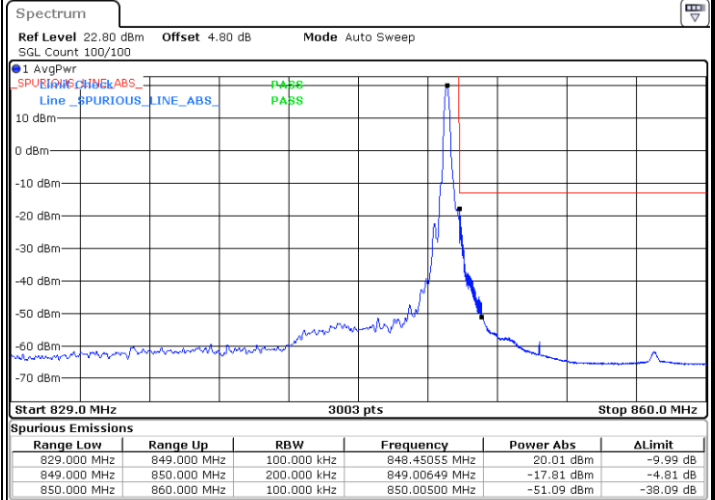
FR1 n5 / 20MHz / DFT-s-OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



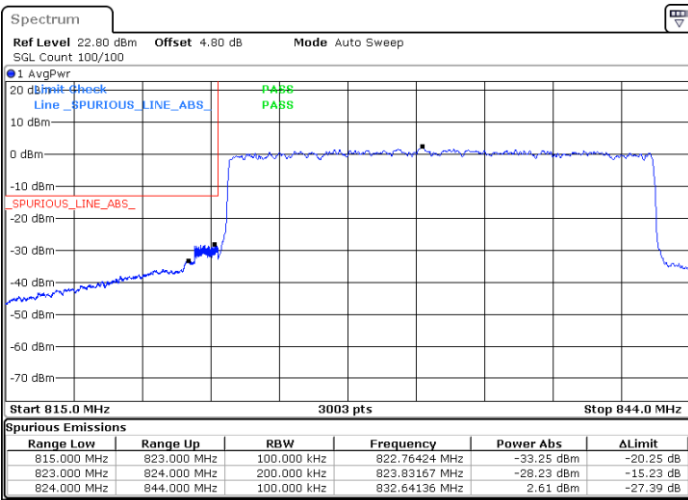
Date: 12.MAR.2021 21:20:19



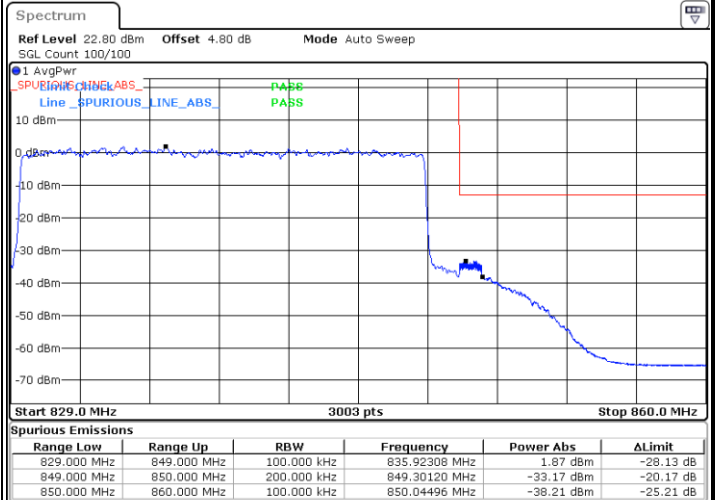
Date: 12.MAR.2021 21:36:32

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 12.MAR.2021 21:15:53



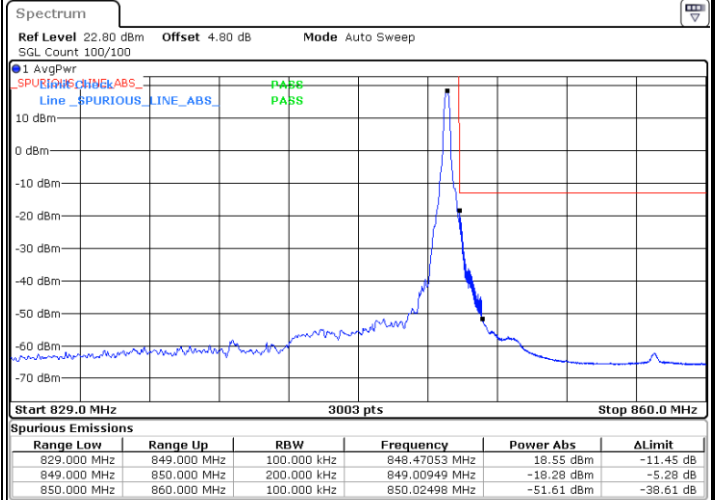
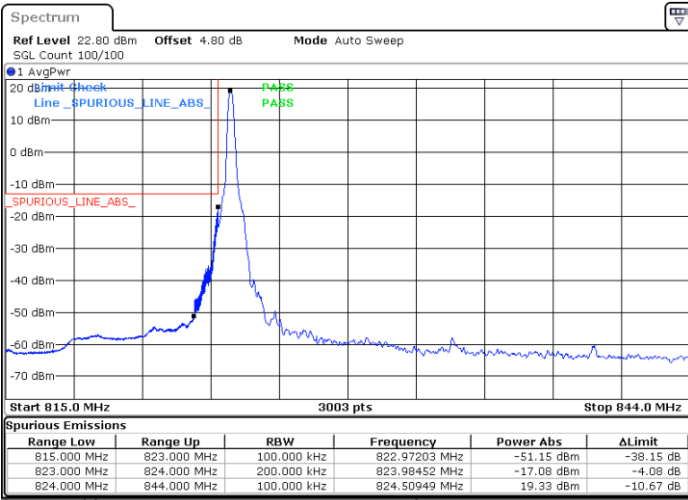
Date: 12.MAR.2021 21:31:52



FR1 n5 / 20MHz / DFT-s-OFDM / 16QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

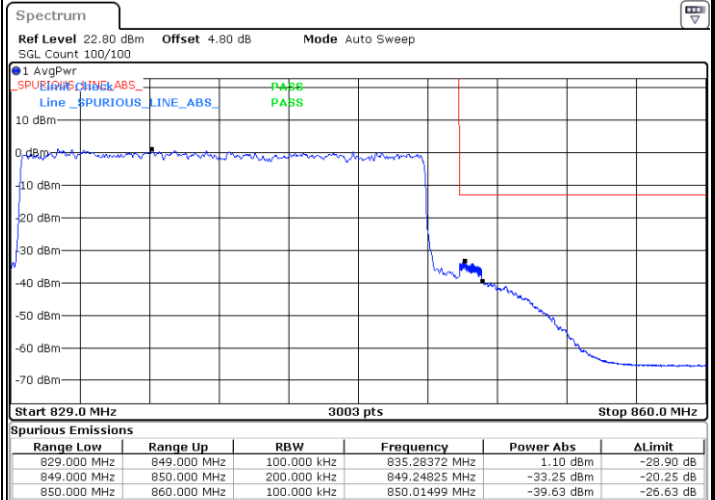
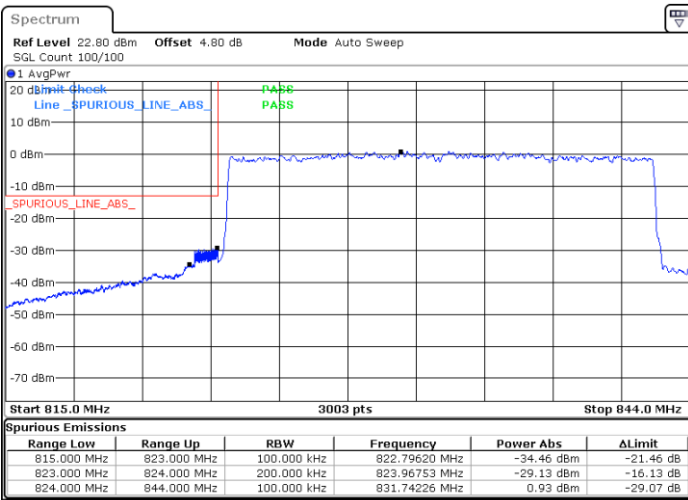


Date: 12.MAR.2021 21:19:31

Date: 12.MAR.2021 21:35:55

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 12.MAR.2021 21:16:29

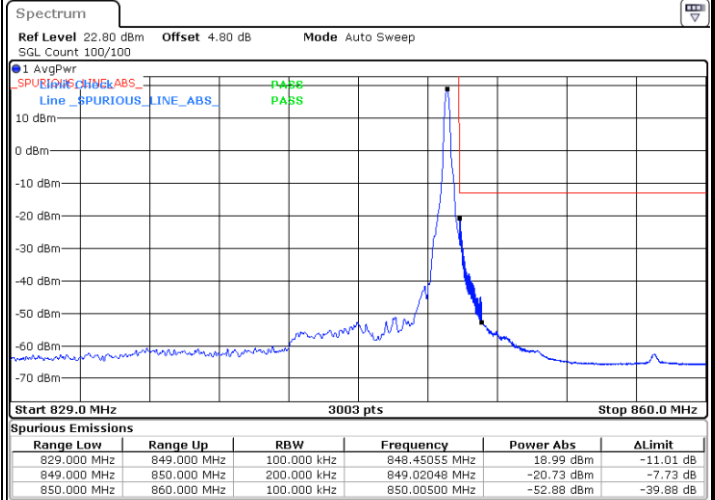
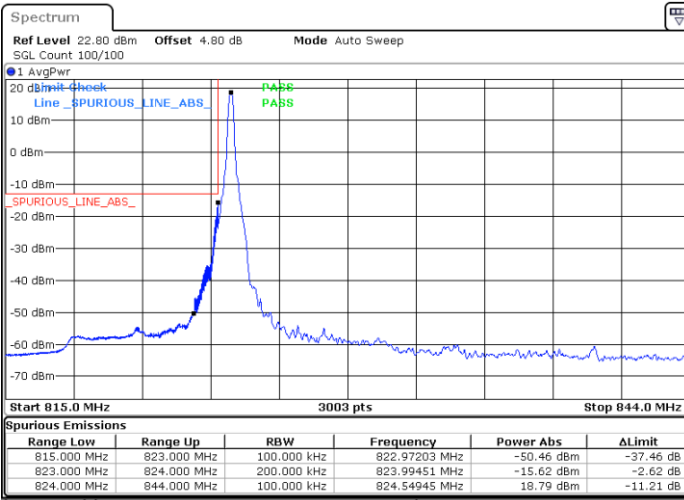
Date: 12.MAR.2021 21:32:32



FR1 n5 / 20MHz / DFT-s-OFDM / 64QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

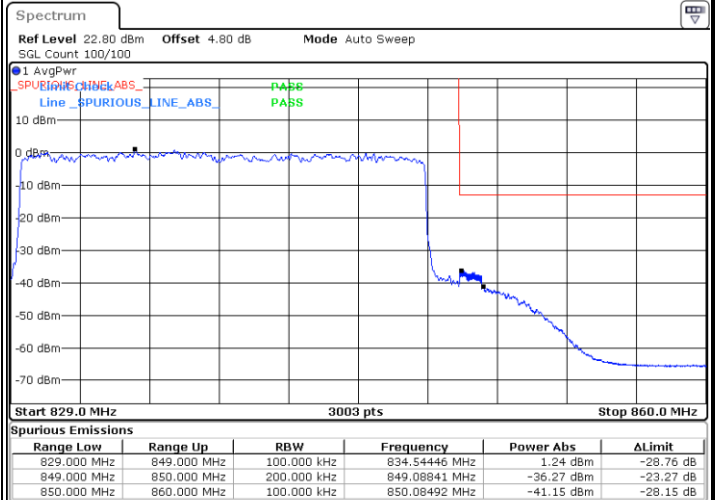
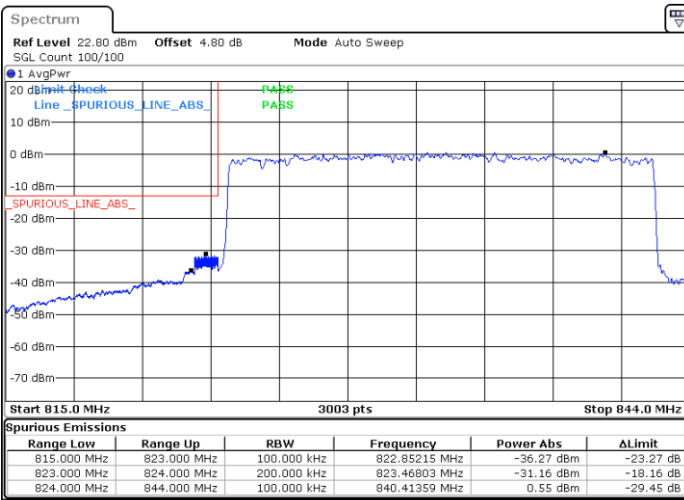


Date: 12.MAR.2021 21:18:54

Date: 12.MAR.2021 21:35:19

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 12.MAR.2021 21:17:04

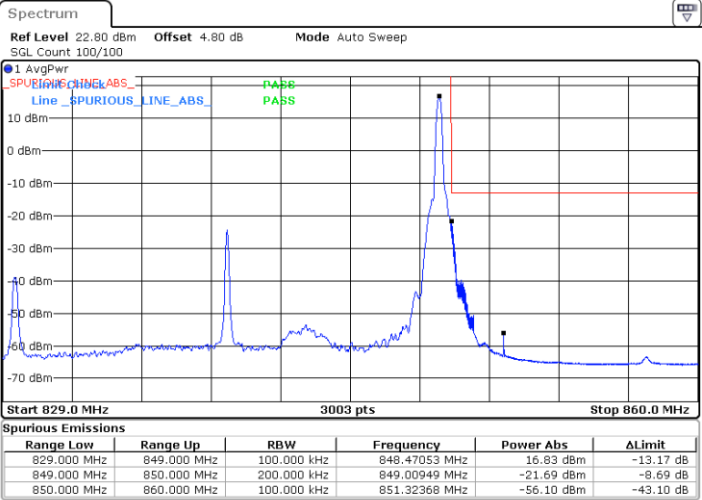
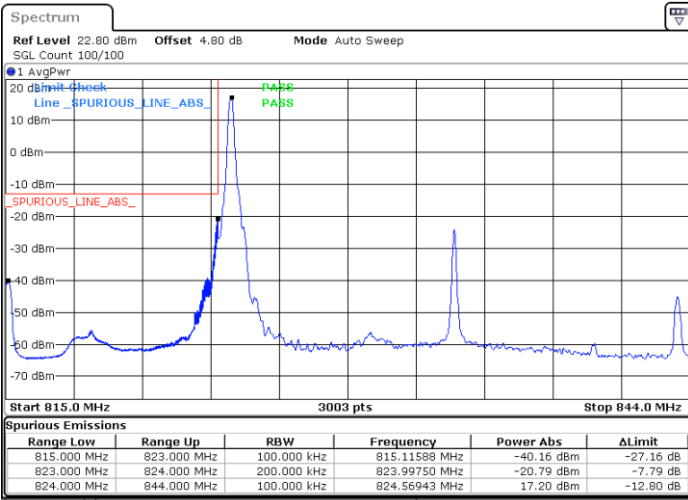
Date: 12.MAR.2021 21:33:09



FR1 n5 / 20MHz / DFT-s-OFDM / 256QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

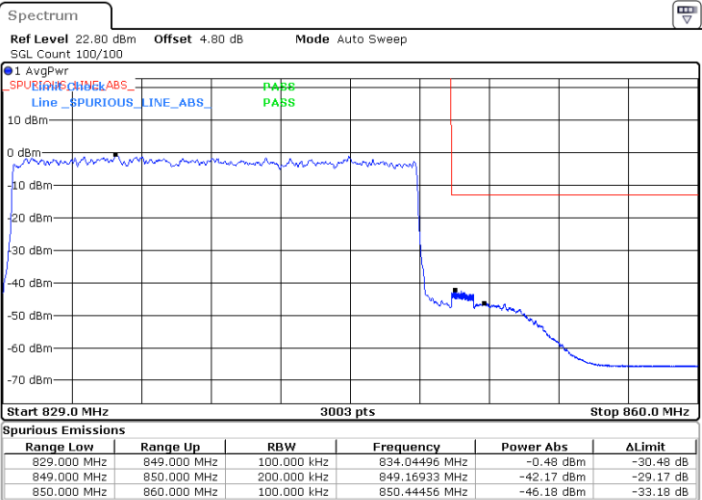
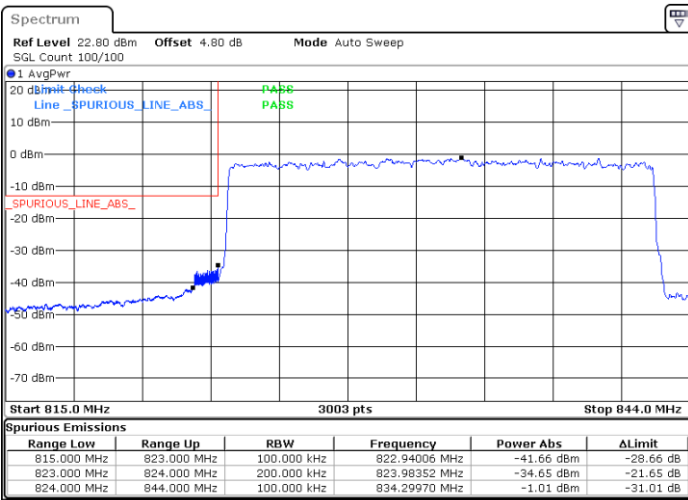


Date: 12.MAR.2021 21:18:20

Date: 12.MAR.2021 21:34:40

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 12.MAR.2021 21:17:41

Date: 12.MAR.2021 21:33:50