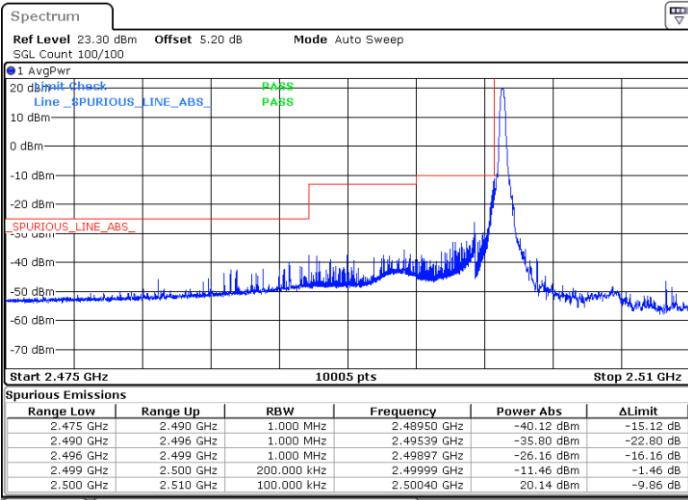




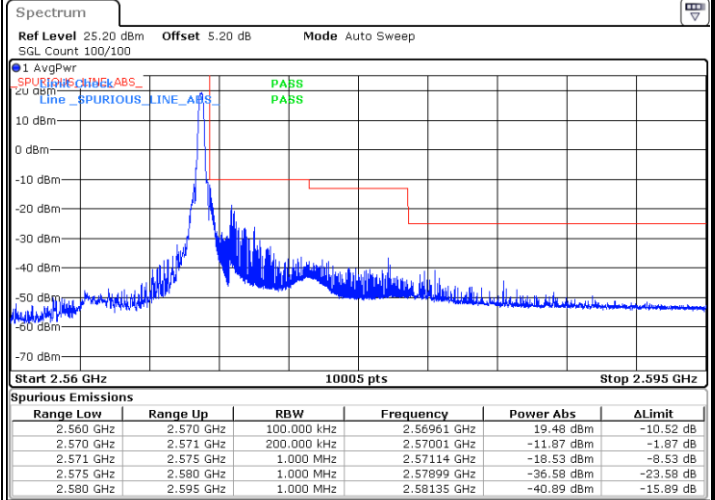
FR1 n7 / 10MHz / DFT-s-OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



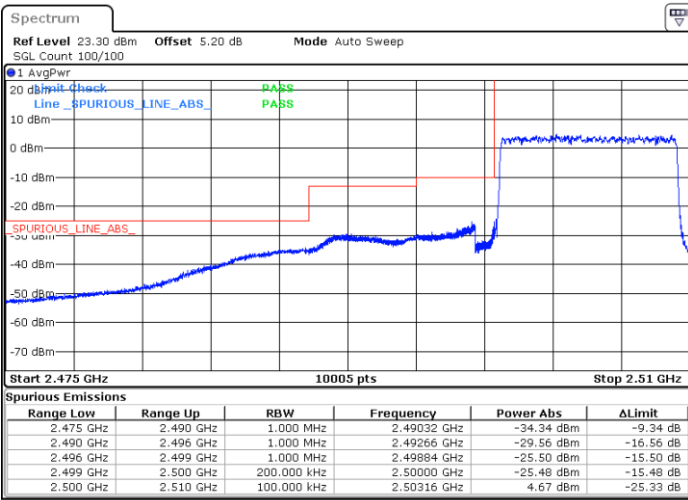
Date: 22.MAR.2021 09:59:17



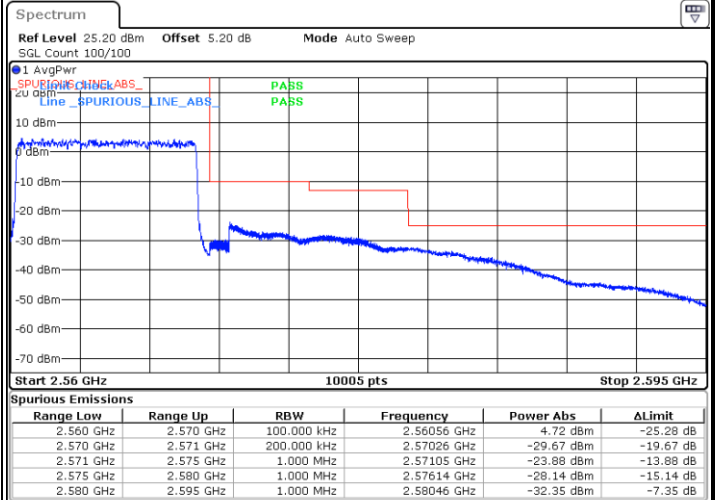
Date: 22.MAR.2021 09:54:48

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 22.MAR.2021 09:58:51



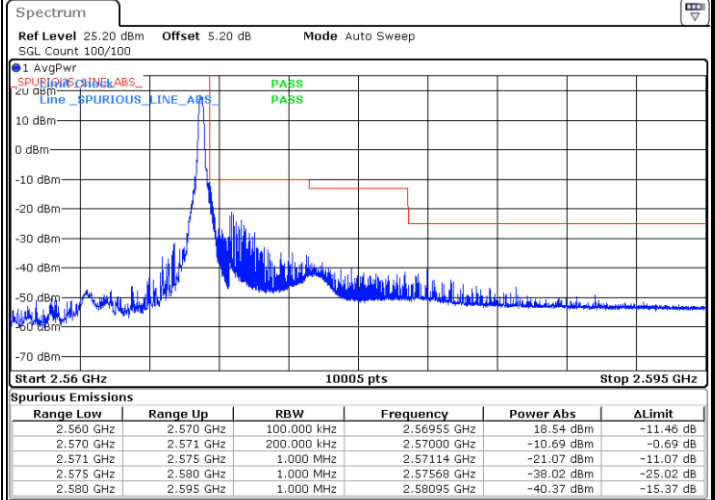
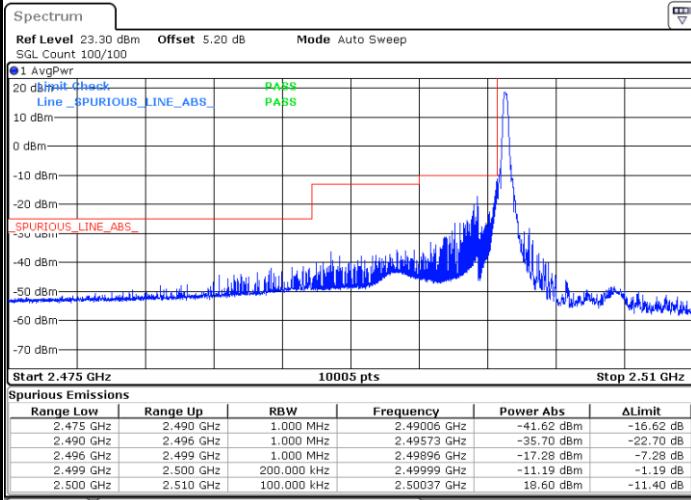
Date: 22.MAR.2021 09:54:25



FR1 n7 / 10MHz / DFT-s-OFDM / 16QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

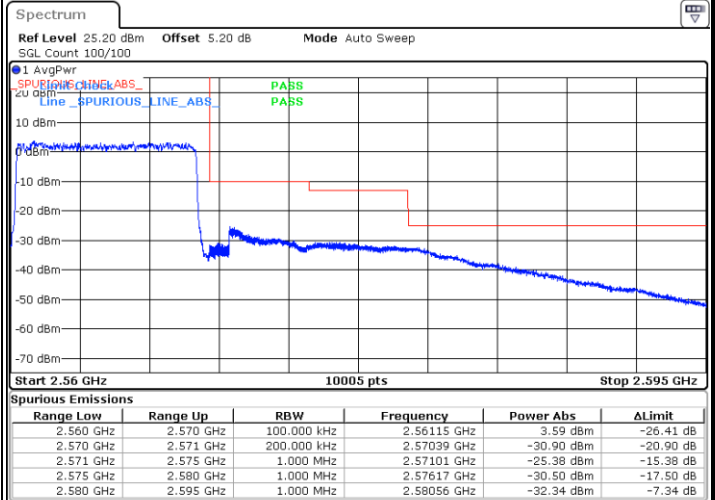
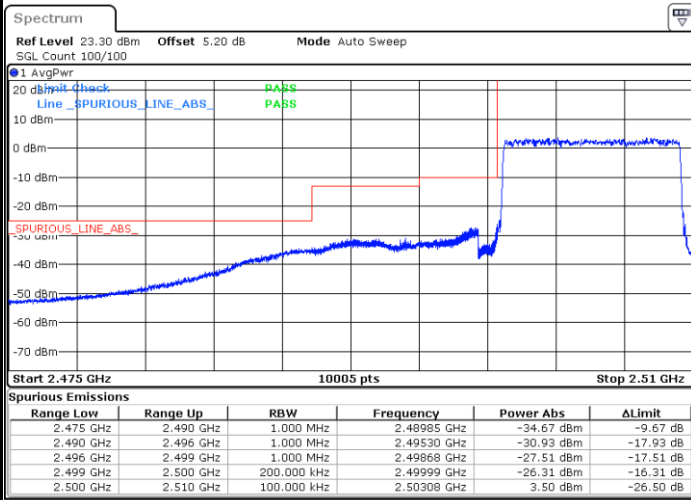


Date: 22.MAR.2021 10:01:16

Date: 22.MAR.2021 09:50:55

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 22.MAR.2021 10:00:47

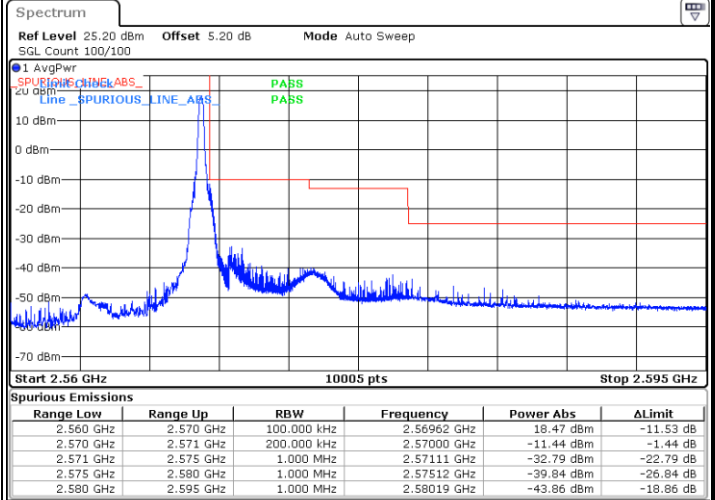
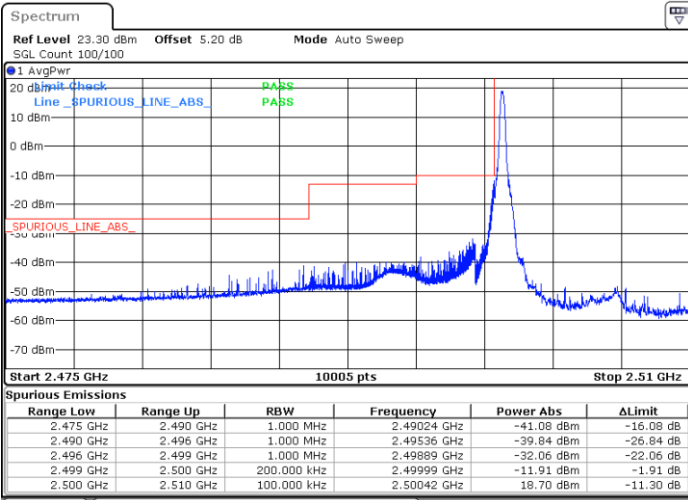
Date: 22.MAR.2021 09:54:03



FR1 n7 / 10MHz / DFT-s-OFDM / 64QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

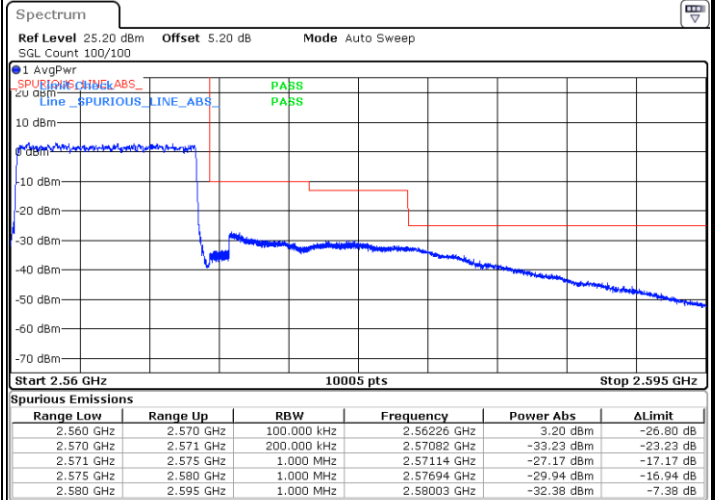
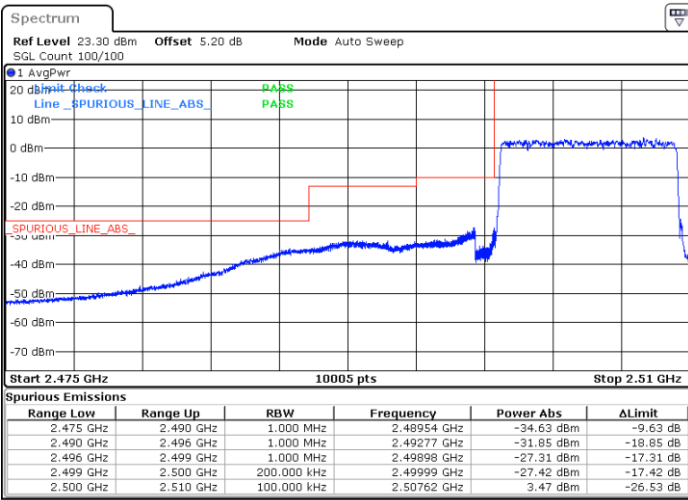


Date: 22.MAR.2021 10:01:38

Date: 22.MAR.2021 09:51:27

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 22.MAR.2021 10:02:00

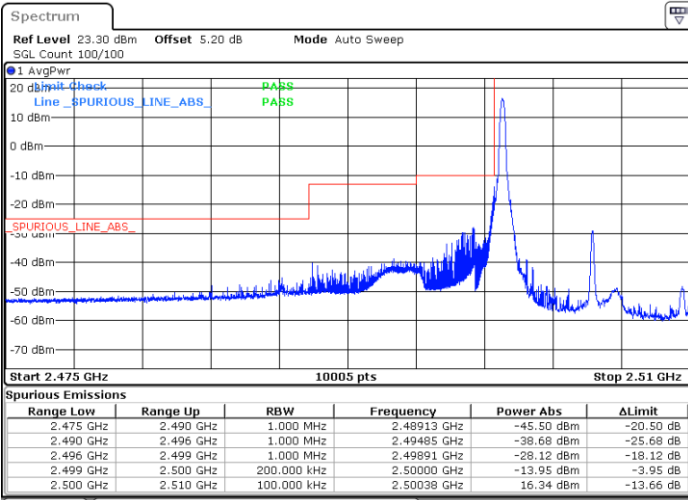
Date: 22.MAR.2021 09:53:38



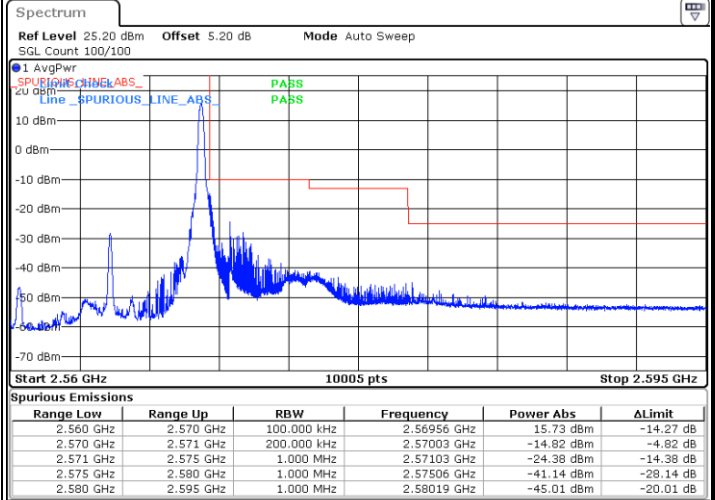
FR1 n7 / 10MHz / DFT-s-OFDM / 256QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



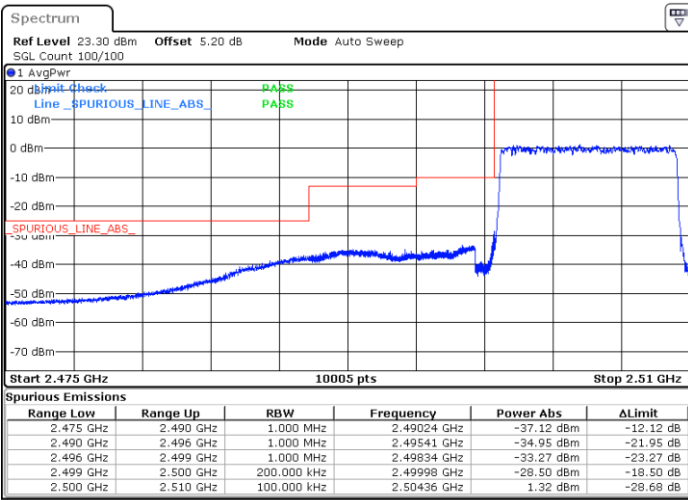
Date: 22.MAR.2021 10:03:02



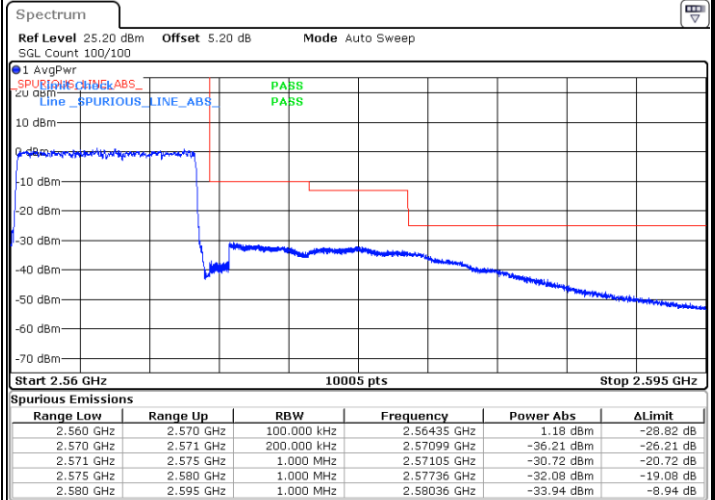
Date: 22.MAR.2021 09:52:42

Lowest Band Edge / Full RB

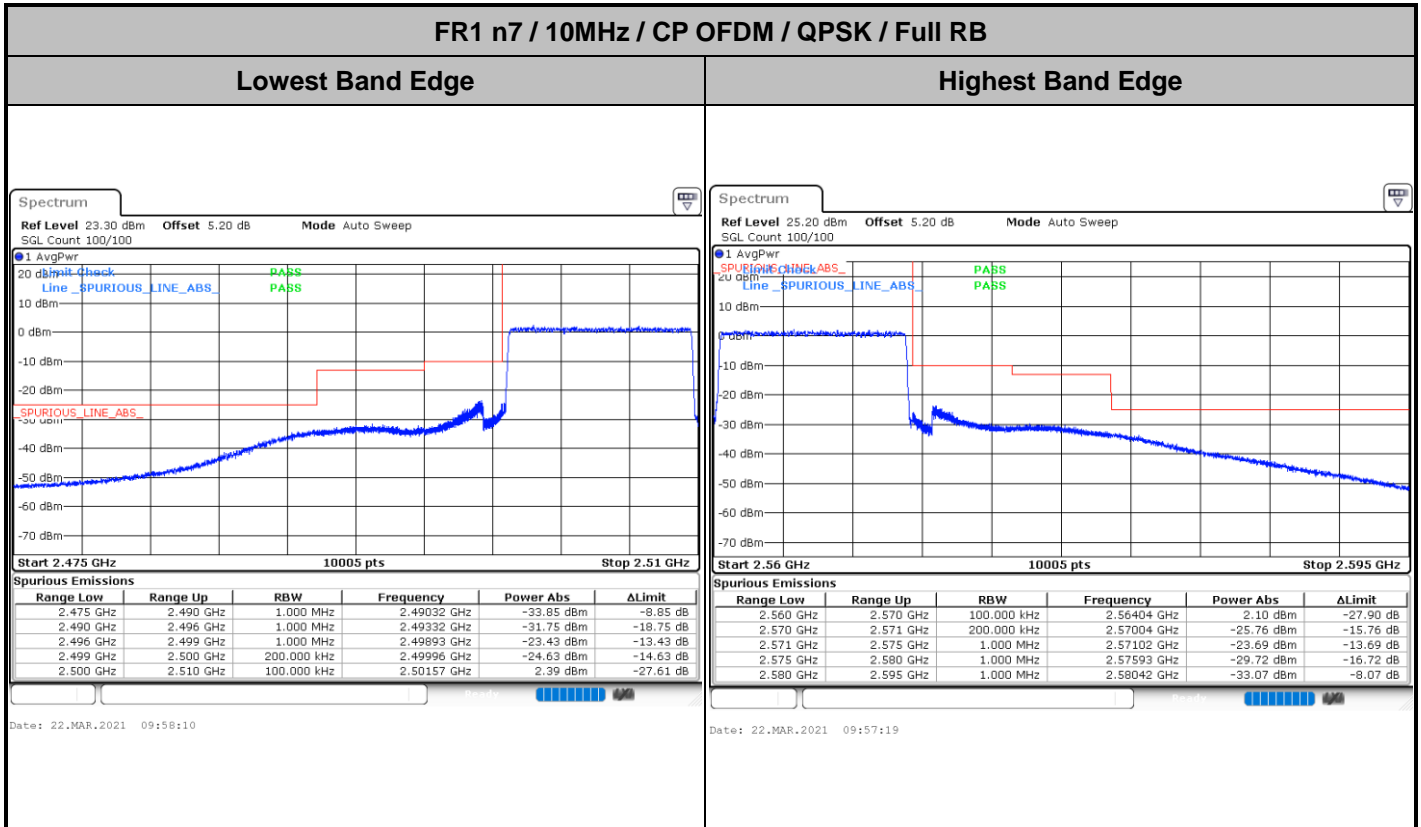
Highest Band Edge / Full RB



Date: 22.MAR.2021 10:02:48



Date: 22.MAR.2021 09:53:15

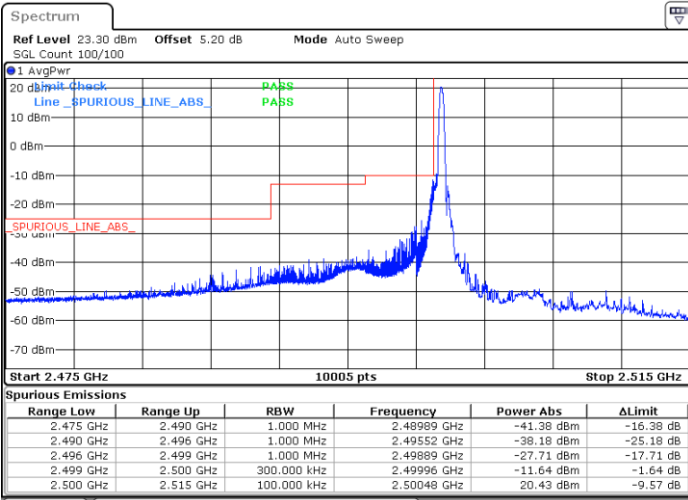




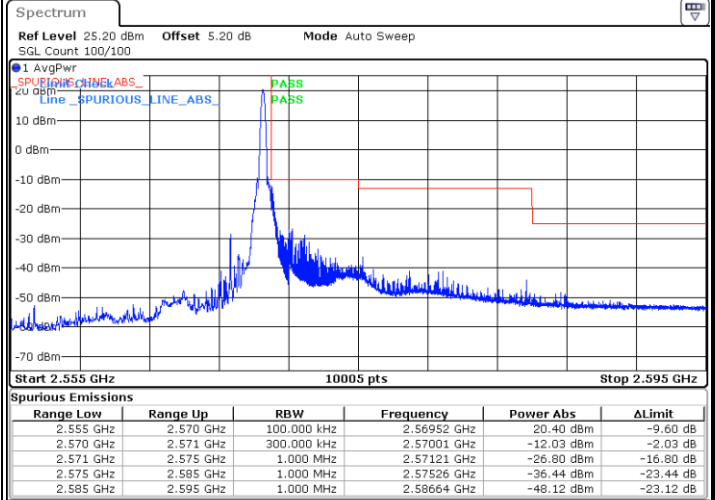
FR1 n7 / 15MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



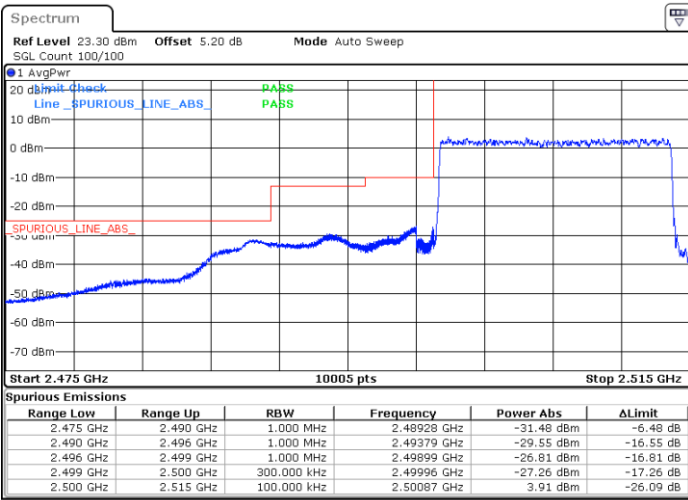
Date: 22.MAR.2021 10:14:06



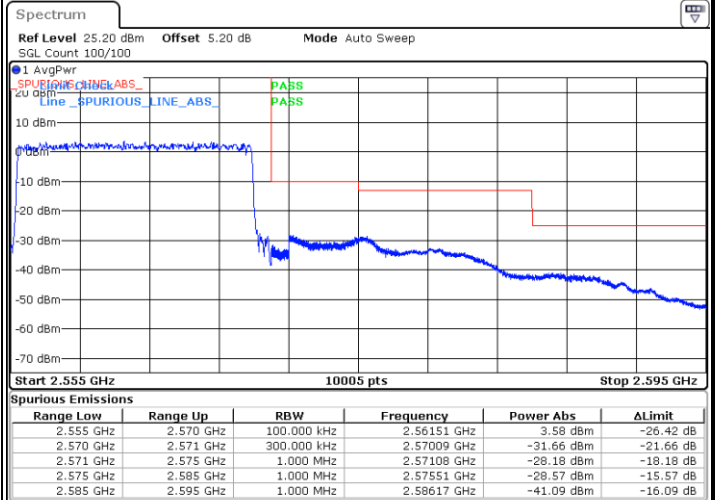
Date: 22.MAR.2021 10:20:02

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 22.MAR.2021 10:14:52



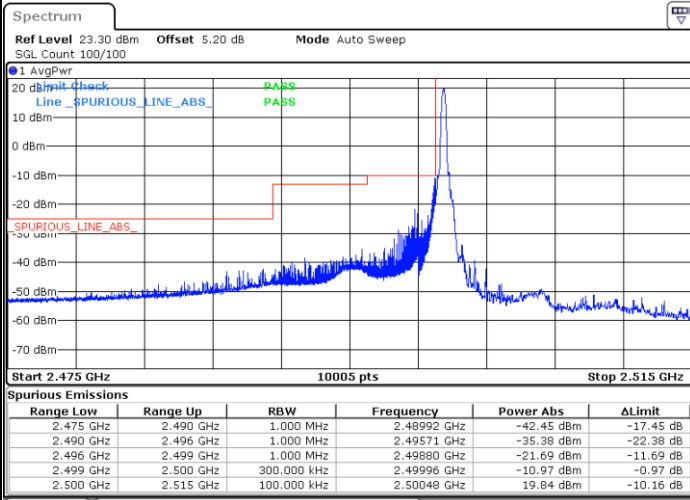
Date: 22.MAR.2021 10:20:22



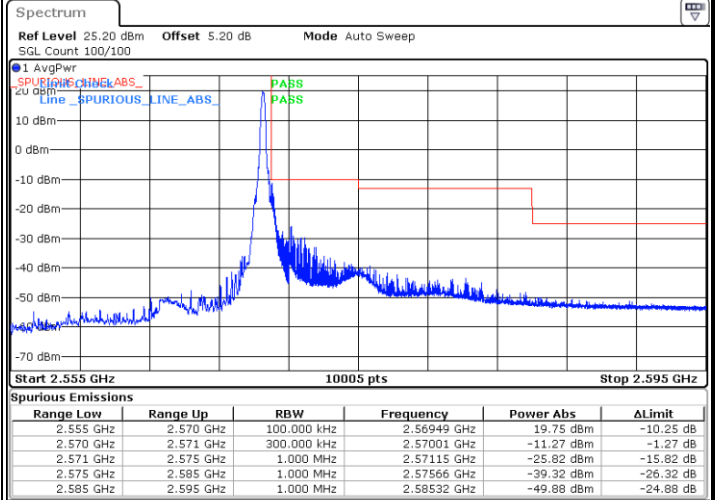
FR1 n7 / 15MHz / DFT-s-OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



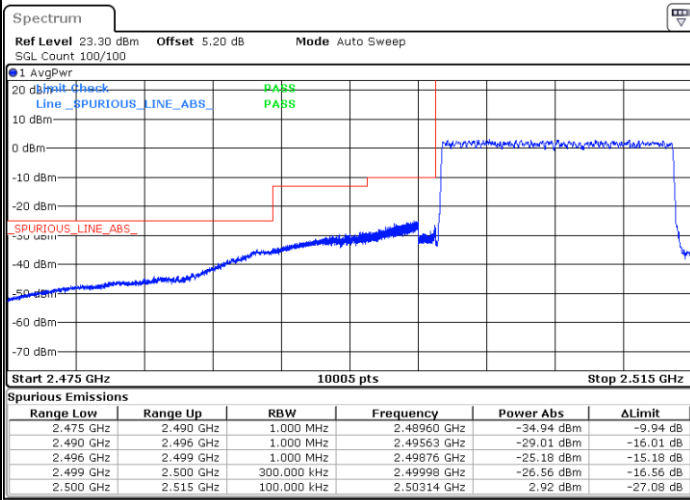
Date: 22.MAR.2021 10:15:50



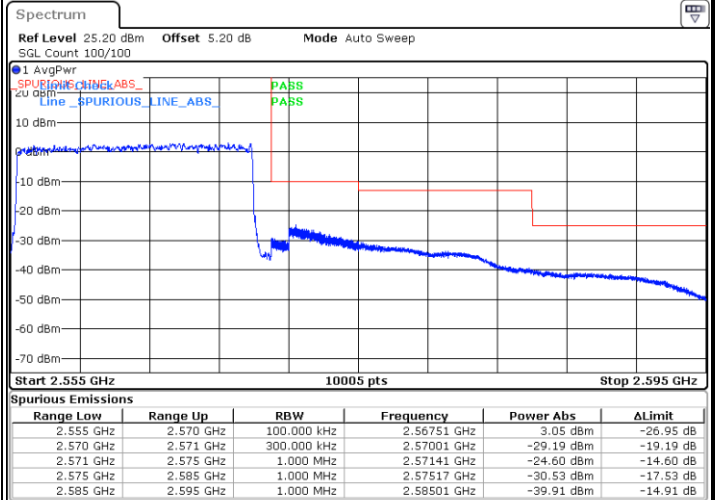
Date: 22.MAR.2021 10:19:31

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 22.MAR.2021 10:15:27



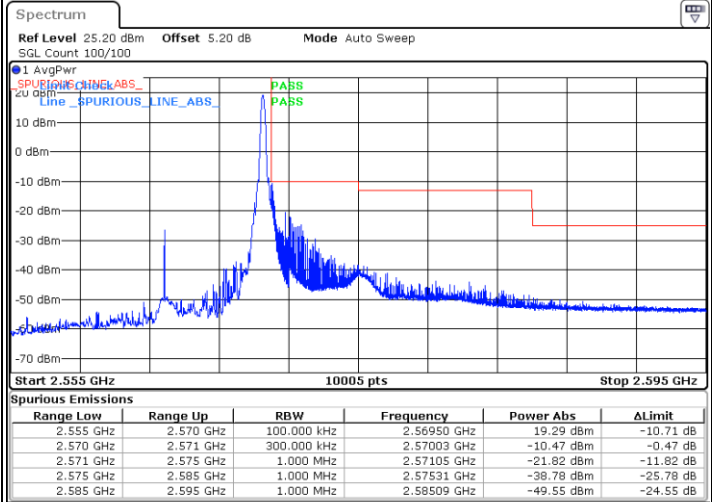
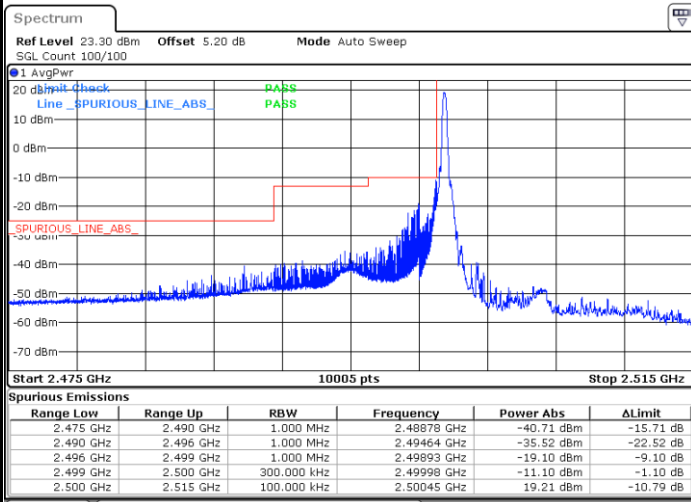
Date: 22.MAR.2021 10:18:58



FR1 n7 / 15MHz / DFT-s-OFDM / 16QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

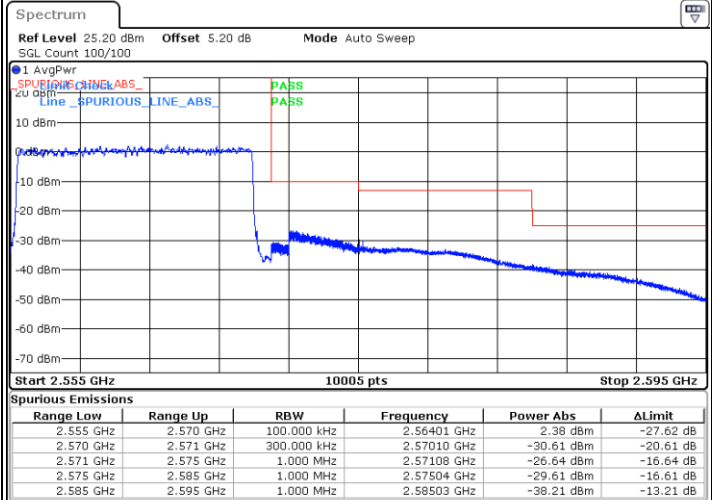
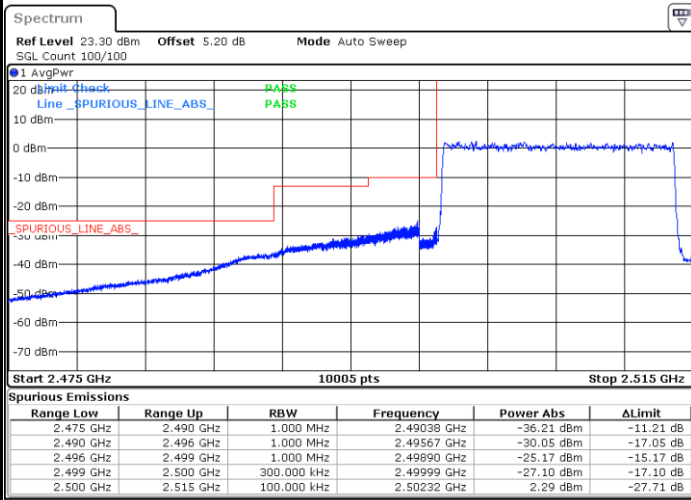


Date: 22.MAR.2021 10:13:42

Date: 22.MAR.2021 10:21:28

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 22.MAR.2021 10:13:18

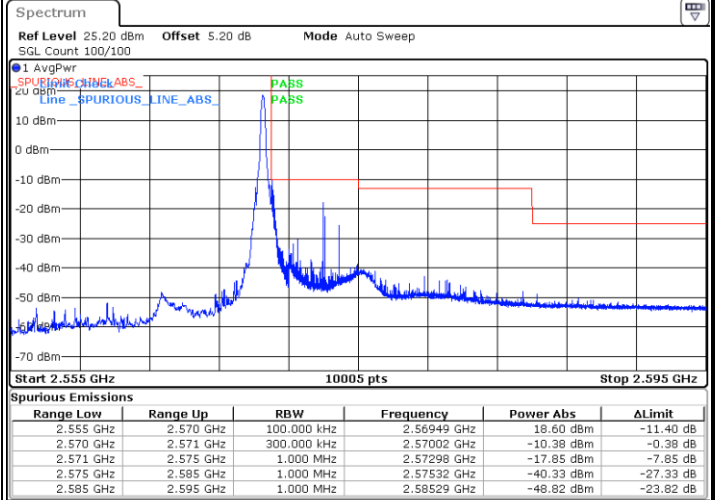
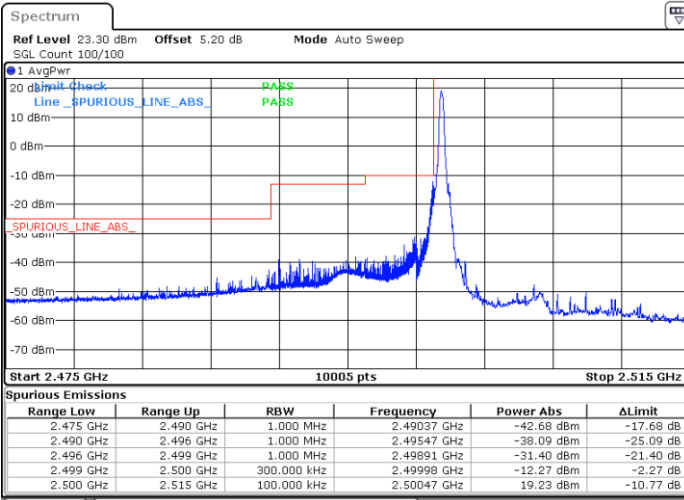
Date: 22.MAR.2021 10:20:48



FR1 n7 / 15MHz / DFT-s-OFDM / 64QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

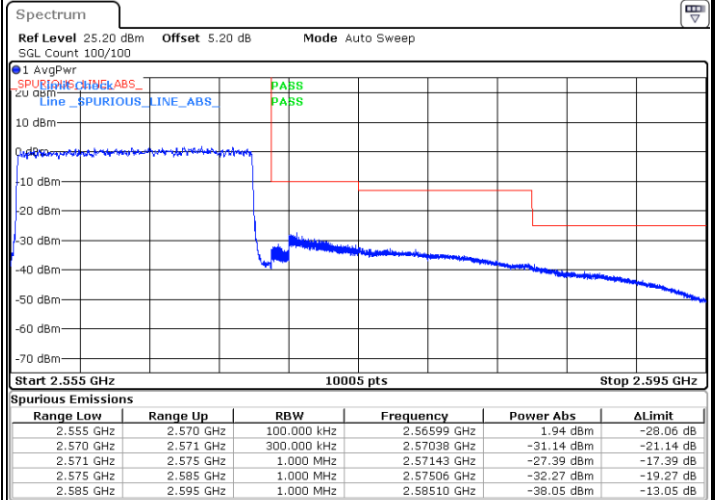
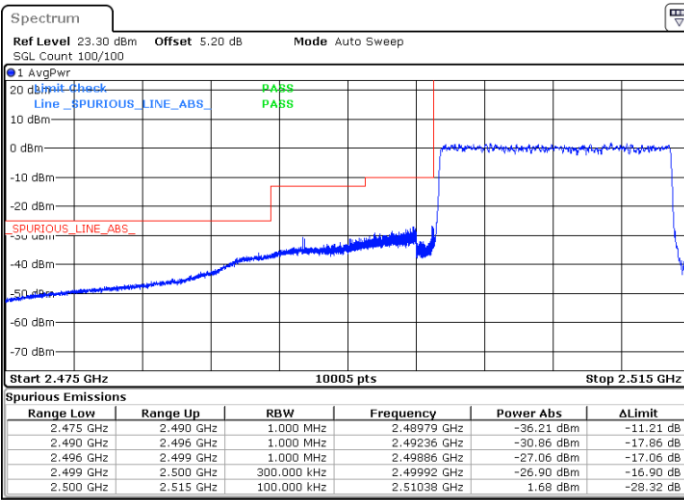


Date: 22.MAR.2021 10:11:09

Date: 22.MAR.2021 10:21:49

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 22.MAR.2021 10:12:06

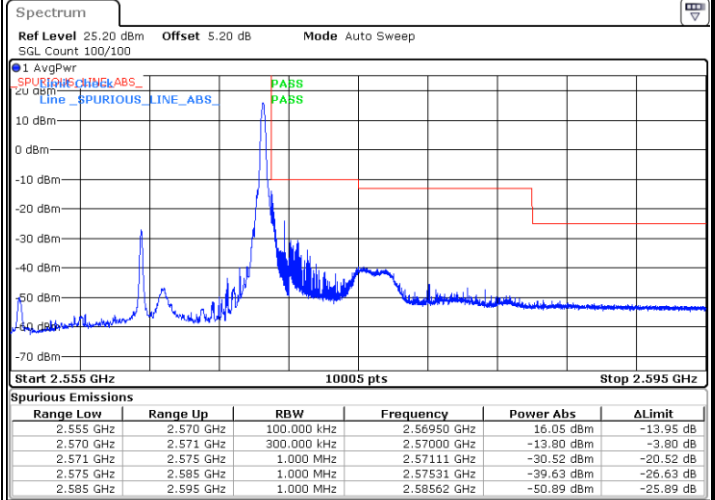
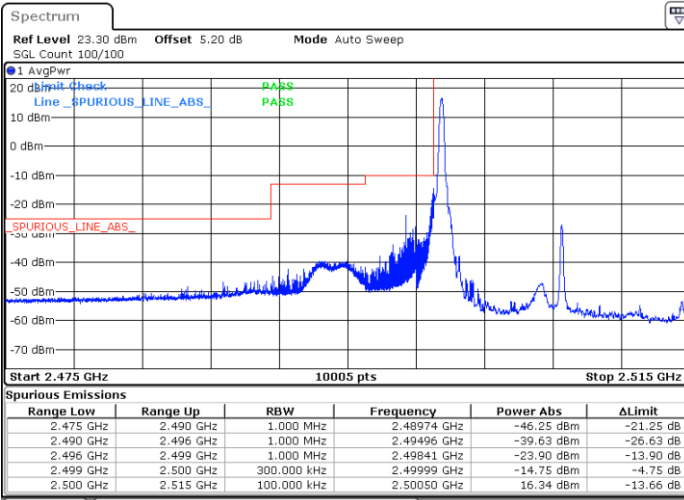
Date: 22.MAR.2021 10:22:08



FR1 n7 / 15MHz / DFT-s-OFDM / 256QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

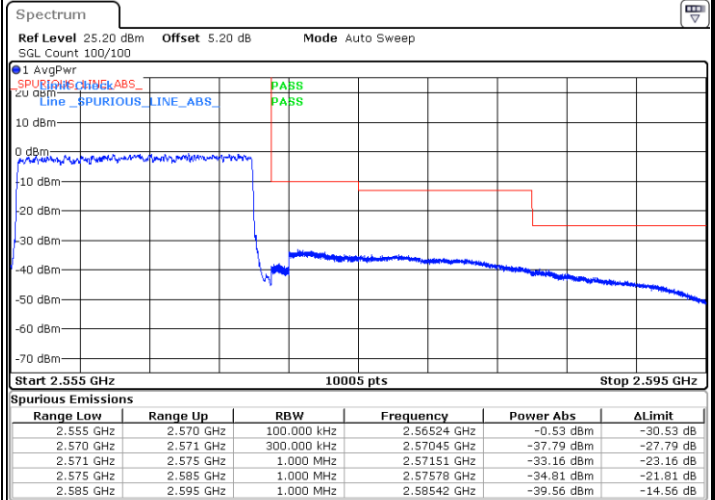
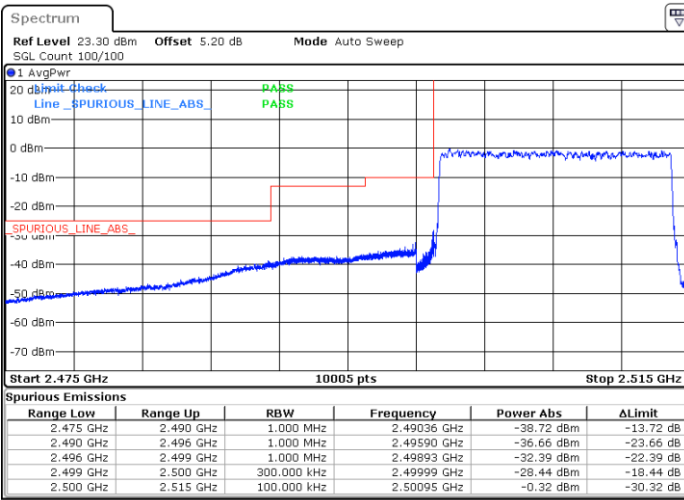


Date: 22.MAR.2021 10:09:26

Date: 22.MAR.2021 10:23:46

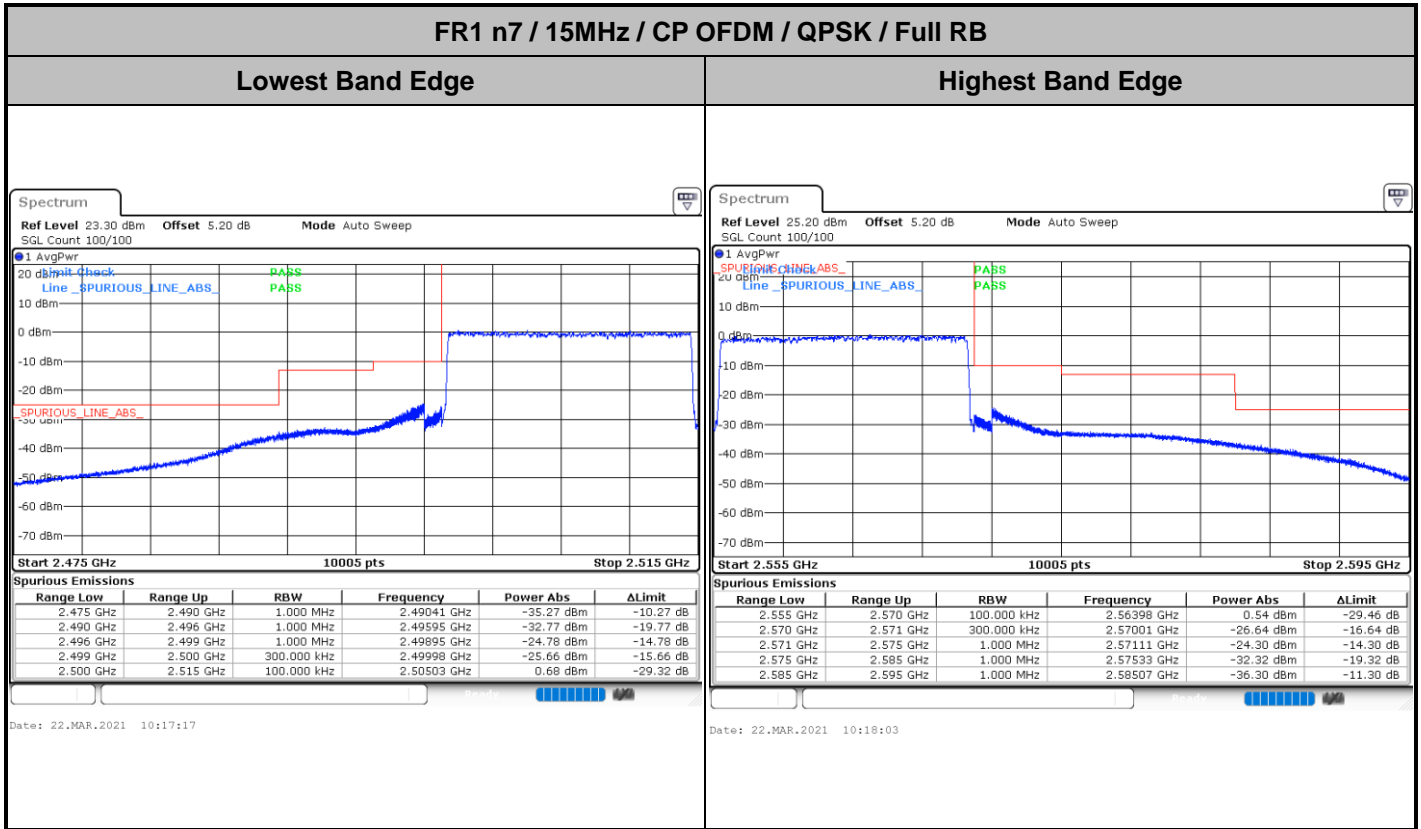
Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 22.MAR.2021 10:08:08

Date: 22.MAR.2021 10:23:14

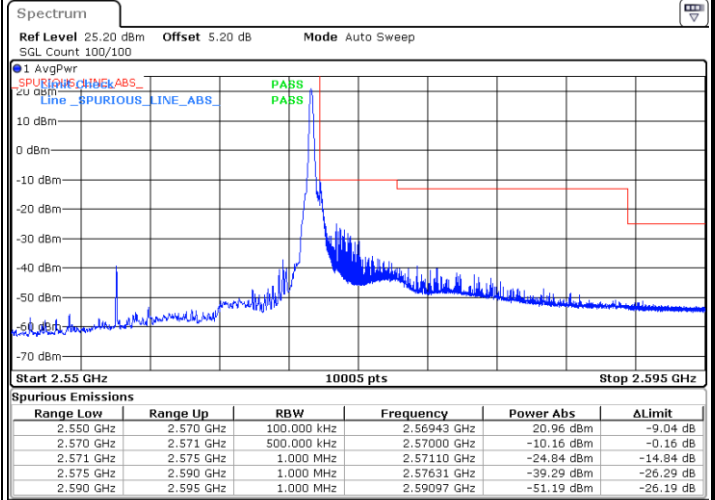
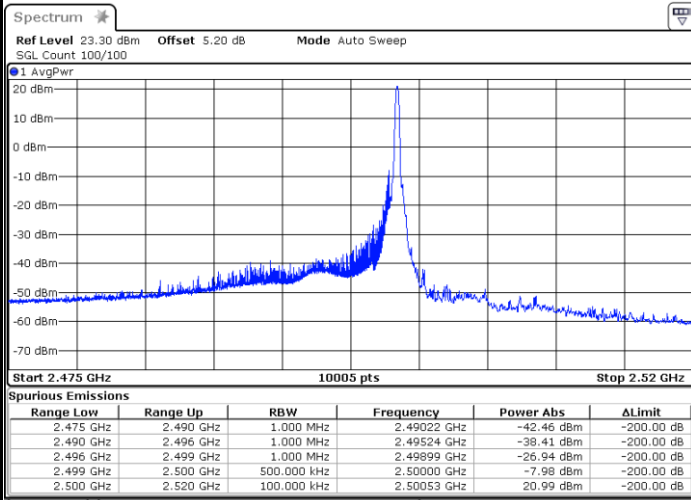




FR1 n7 / 20MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

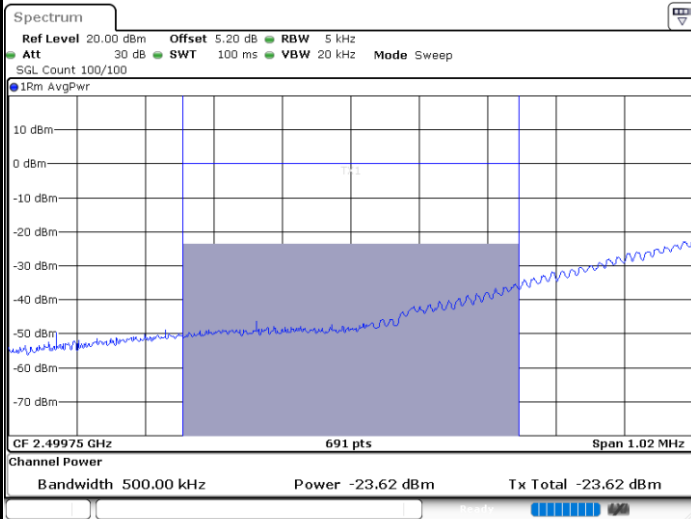
Highest Band Edge / 1RBmax



Date: 22.MAR.2021 10:45:29

Date: 22.MAR.2021 10:30:39

Channel power -10 dBm > -23.62 dBm (Pass)



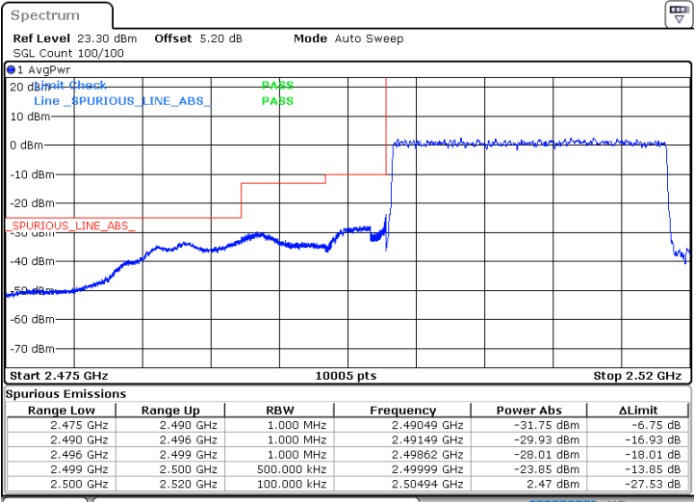
Date: 22.MAR.2021 10:49:46



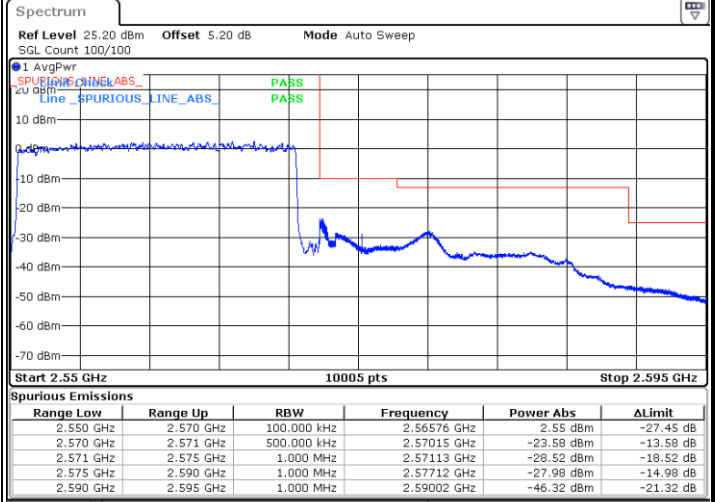
FR1 n7 / 20MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 22.MAR.2021 10:44:33

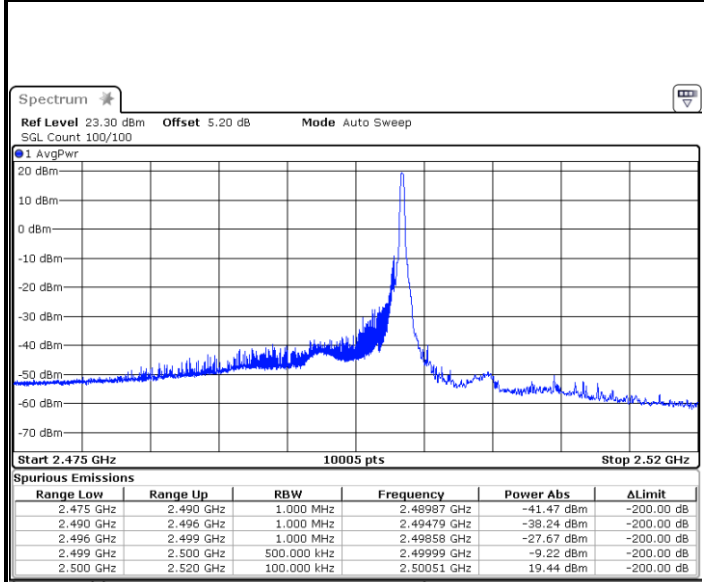


Date: 22.MAR.2021 10:31:52



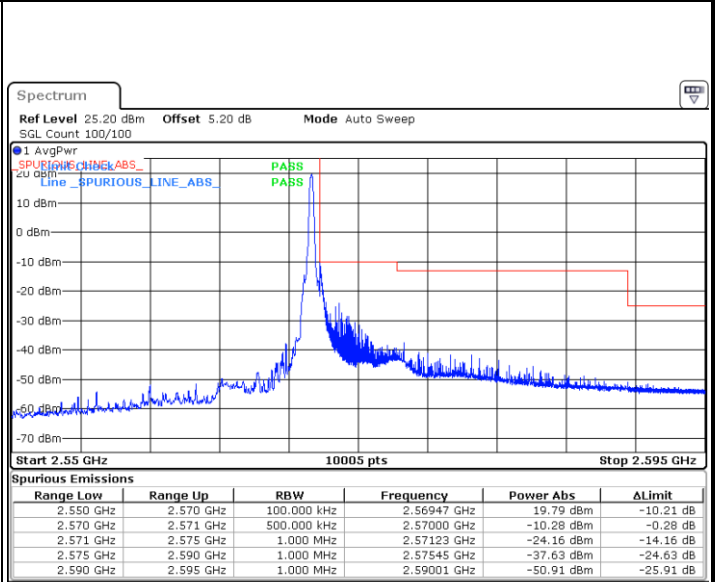
FR1 n7 / 20MHz / DFT-s-OFDM / QPSK

Lowest Band Edge / 1RB0



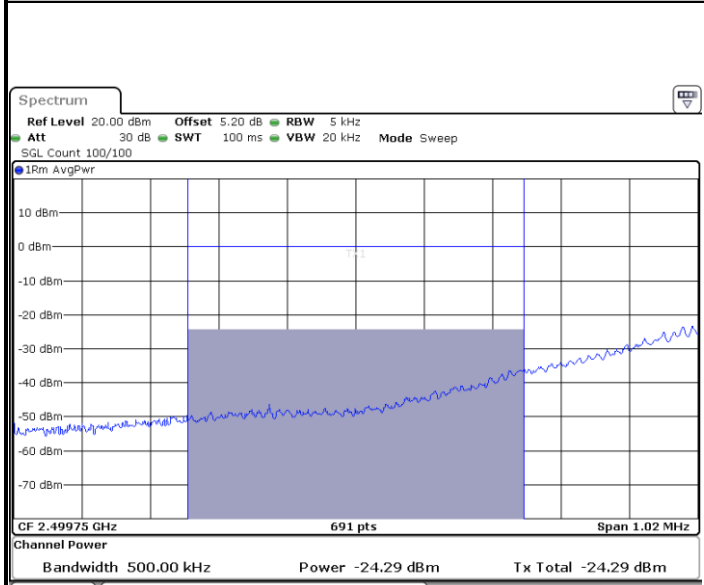
Date: 22.MAR.2021 10:43:39

Highest Band Edge / 1RBmax



Date: 22.MAR.2021 10:29:27

Channel power -10 dBm > -24.29 dBm (Pass)



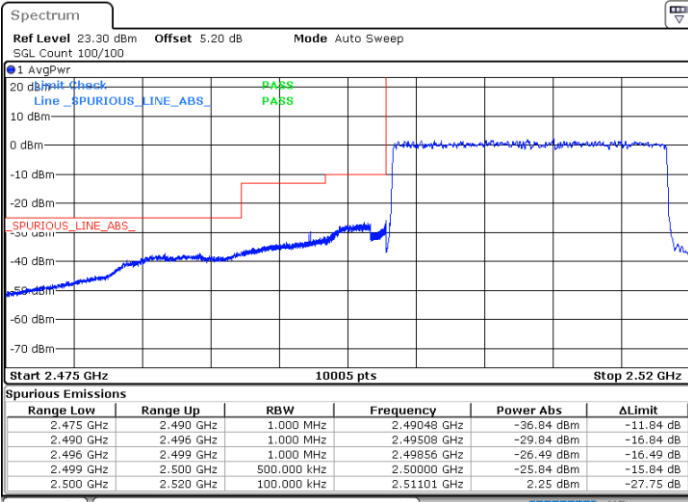
Date: 22.MAR.2021 10:50:43



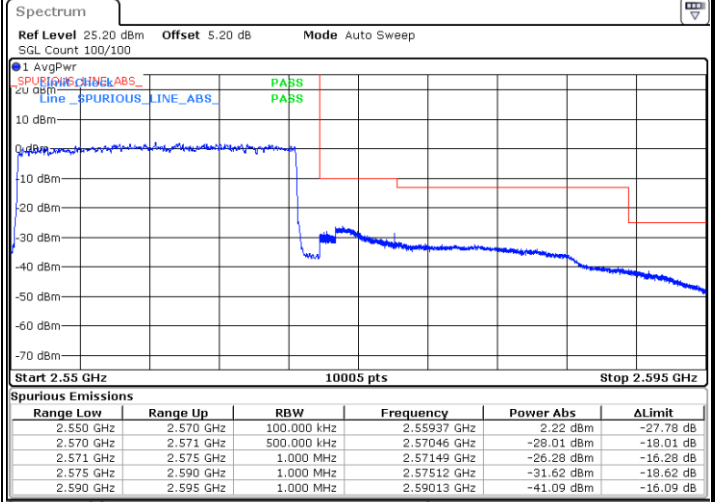
FR1 n7 / 20MHz / DFT-s-OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 22.MAR.2021 10:44:02



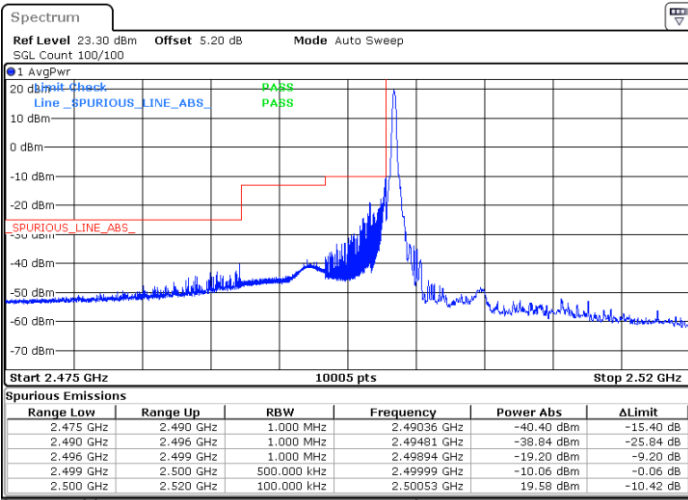
Date: 22.MAR.2021 10:32:17



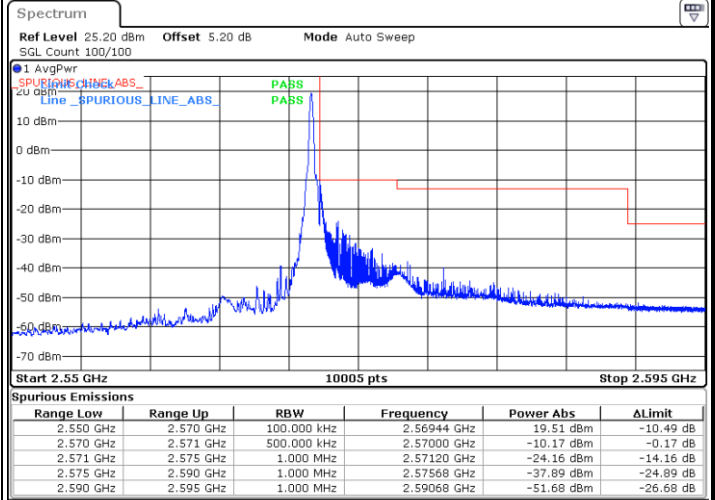
FR1 n7 / 20MHz / DFT-s-OFDM / 16QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



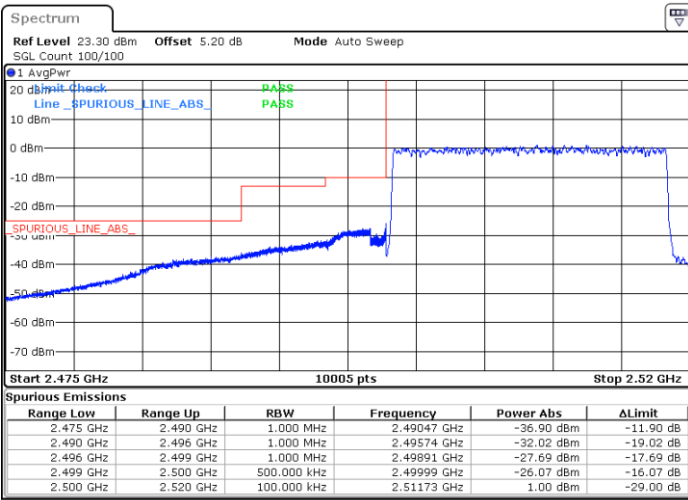
Date: 22.MAR.2021 10:39:21



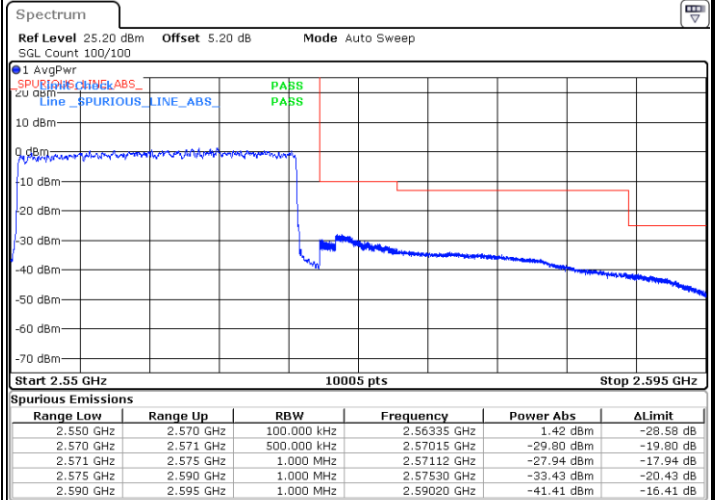
Date: 22.MAR.2021 10:28:45

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 22.MAR.2021 10:37:39



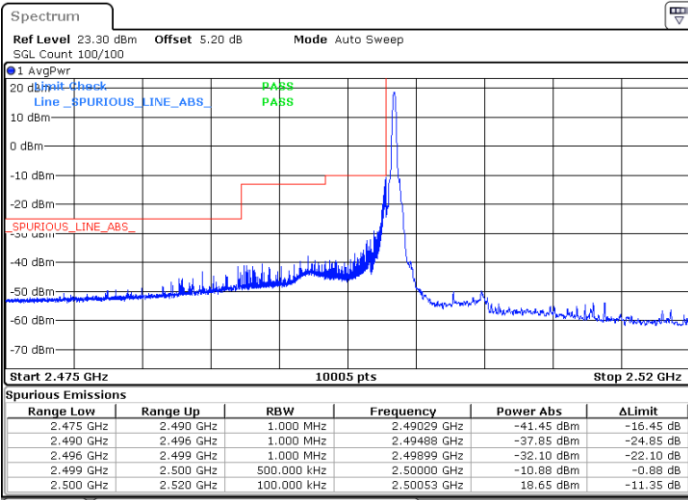
Date: 22.MAR.2021 10:32:41



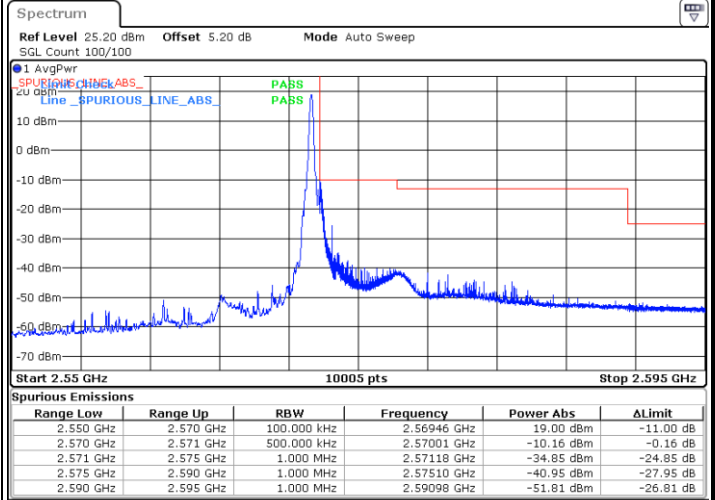
FR1 n7 / 20MHz / DFT-s-OFDM / 64QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



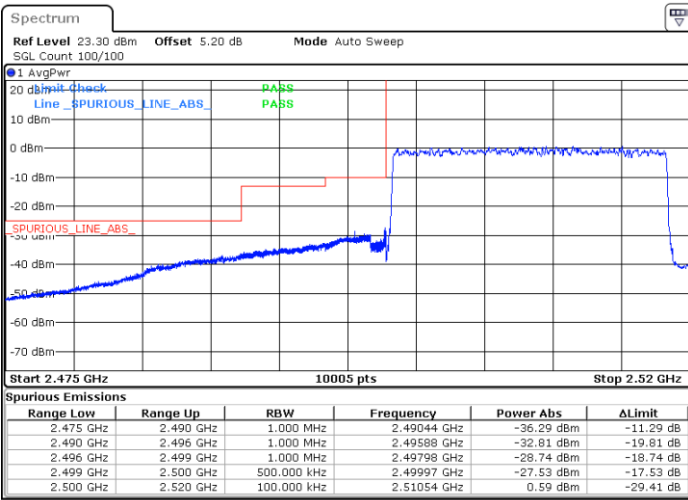
Date: 22.MAR.2021 10:36:59



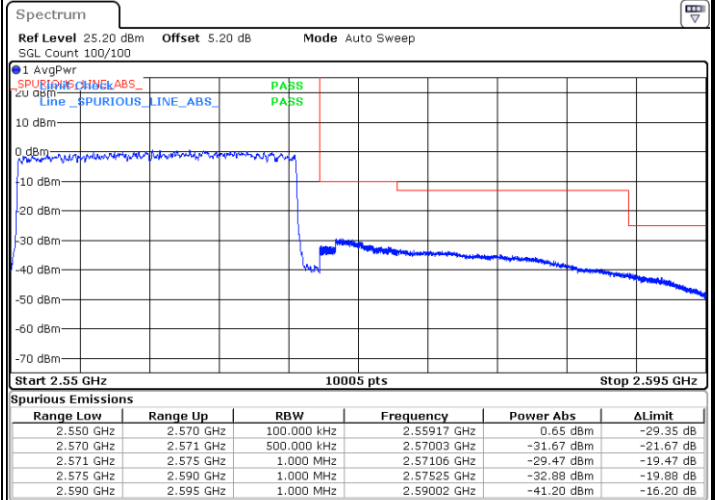
Date: 22.MAR.2021 10:28:03

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 22.MAR.2021 10:37:18



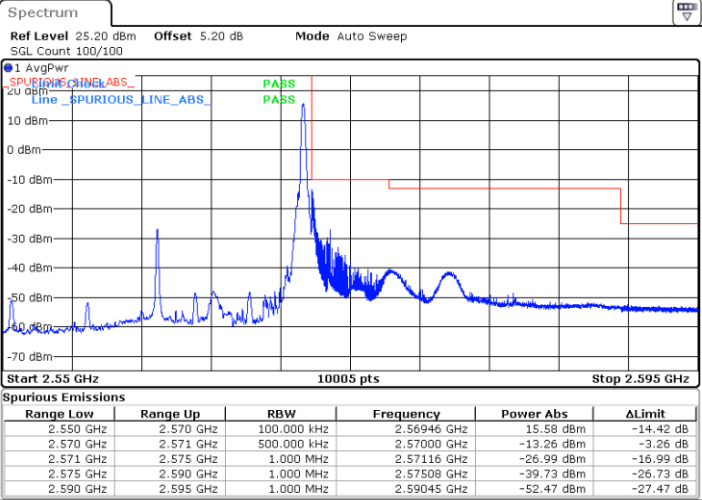
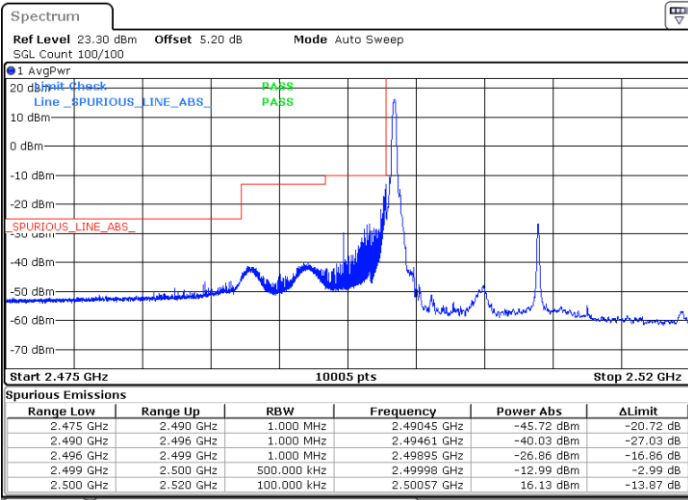
Date: 22.MAR.2021 10:33:03



FR1 n7 / 20MHz / DFT-s-OFDM / 256QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

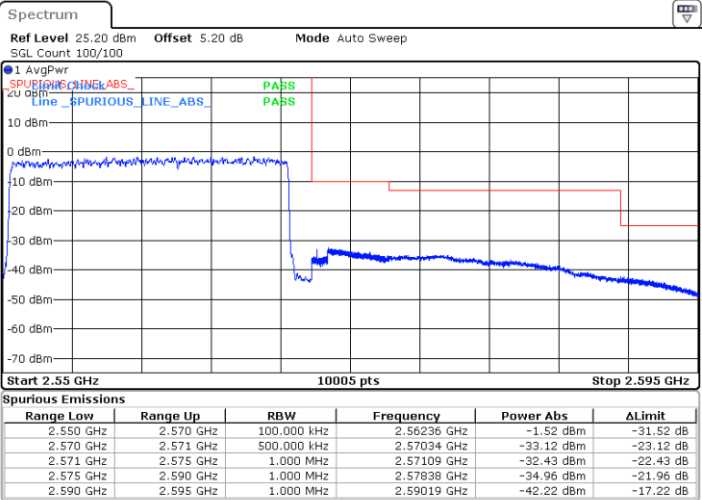
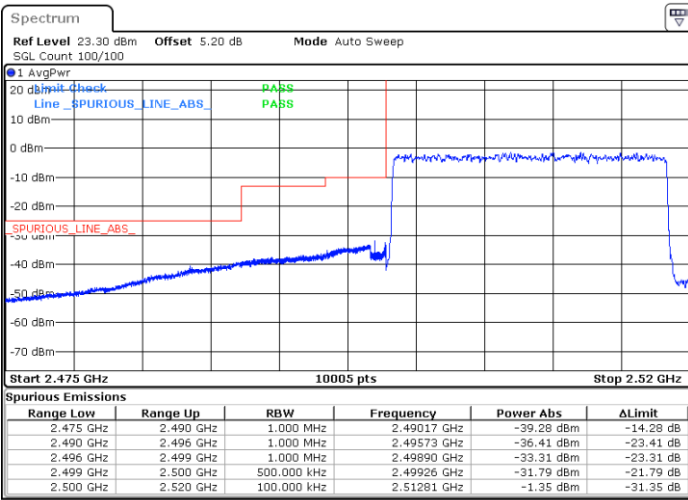


Date: 22.MAR.2021 10:36:27

Date: 22.MAR.2021 10:26:10

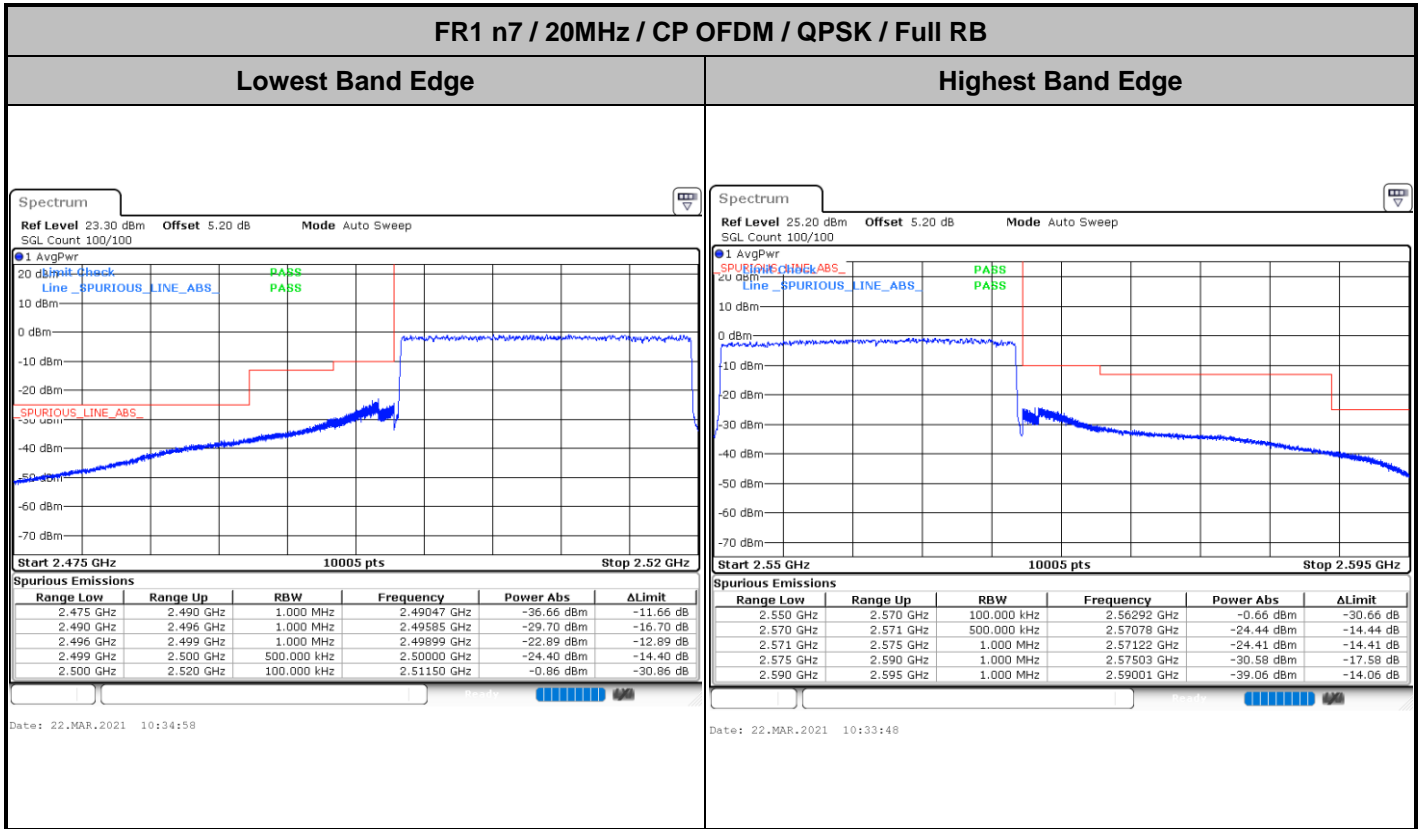
Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 22.MAR.2021 10:36:09

Date: 22.MAR.2021 10:25:58



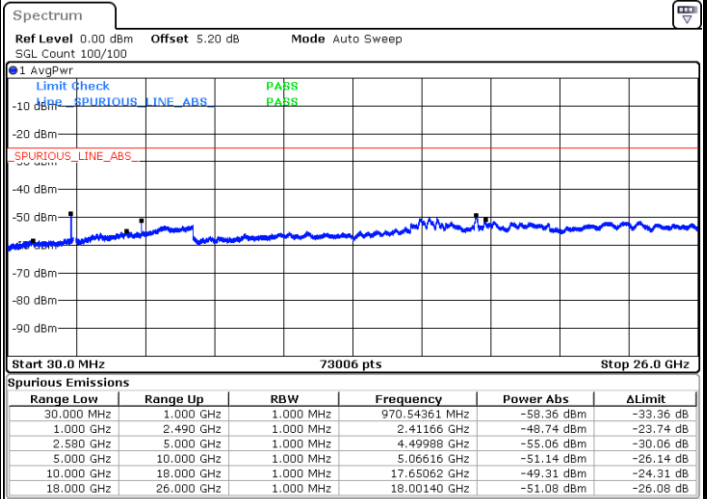
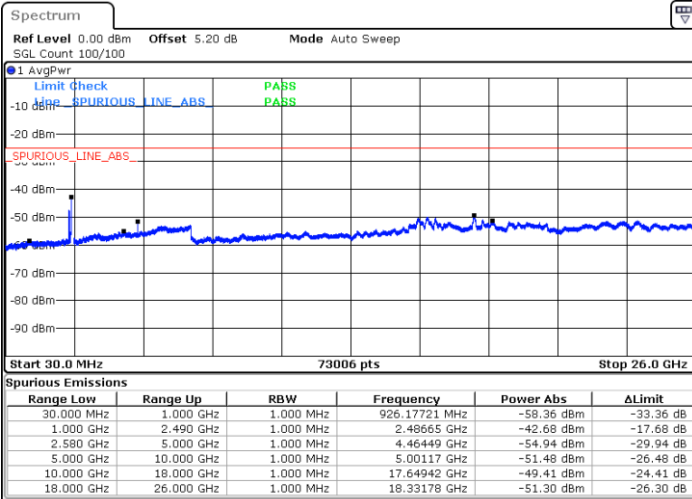


Conducted Spurious Emission

FR1 n7 / 5MHz / DFT-S OFDM / QPSK / 1RB1

Lowest Channel

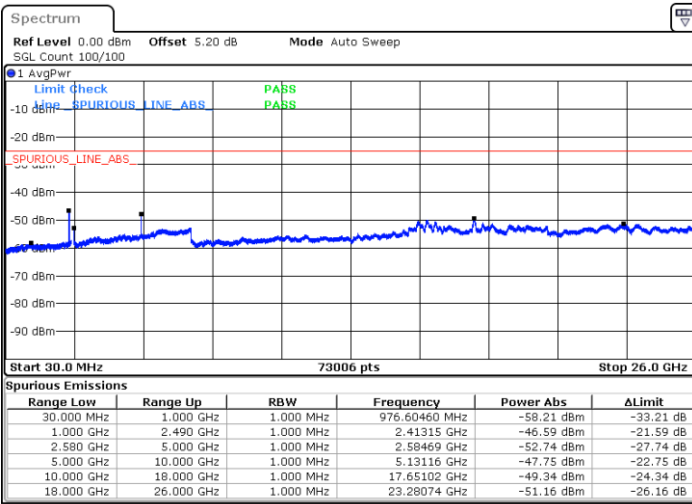
Middle Channel



Date: 19.MAR.2021 23:17:13

Date: 19.MAR.2021 23:12:01

Highest Channel



Date: 19.MAR.2021 23:13:58



Frequency Stability

Test Conditions		FR1 n7 (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0117	PASS
40	Normal Voltage	0.0026	
30	Normal Voltage	0.0025	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0152	
0	Normal Voltage	0.0011	
-10	Normal Voltage	0.0124	
-20	Normal Voltage	0.0009	
-30	Normal Voltage	0.0121	
20	Maximum Voltage	0.0024	
20	Normal Voltage	0.0002	
20	Battery End Point	0.0010	

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 n38

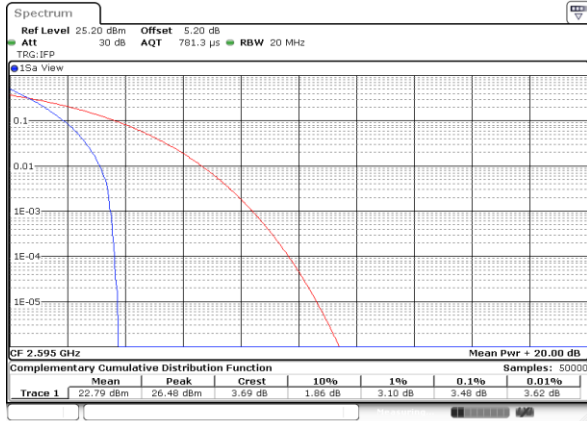
Peak-to-Average Ratio

Mode	FR1 n38 / 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	3.48	4.32	5.51	5.91	PASS
Mode	FR1 n38 / 20MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Middle CH	6.41				PASS



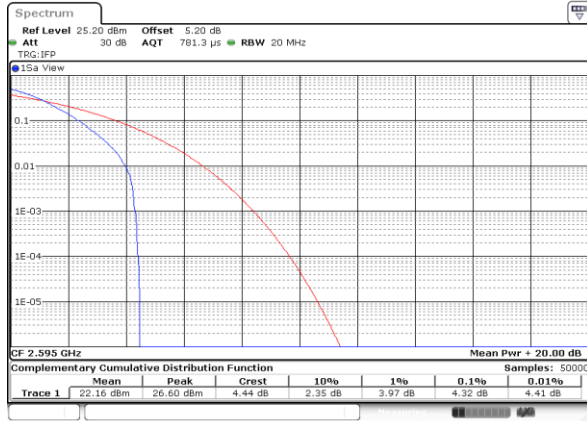
FR1 n38 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



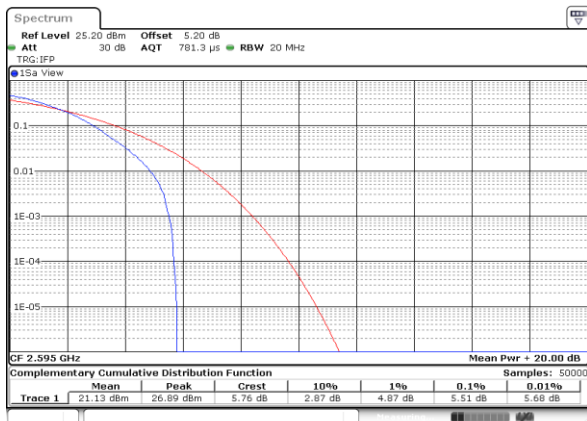
Date: 22.MAR.2021 15:30:58

QPSK



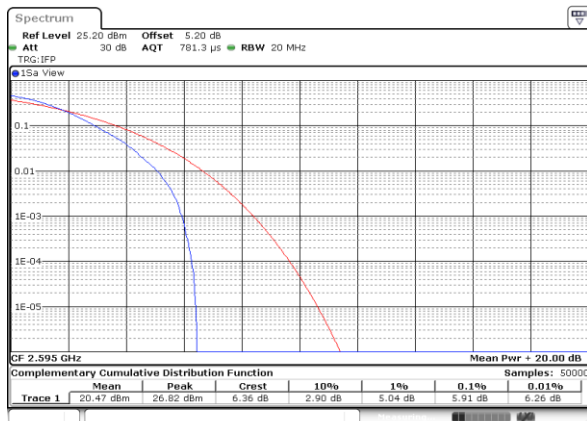
Date: 22.MAR.2021 15:32:29

16QAM



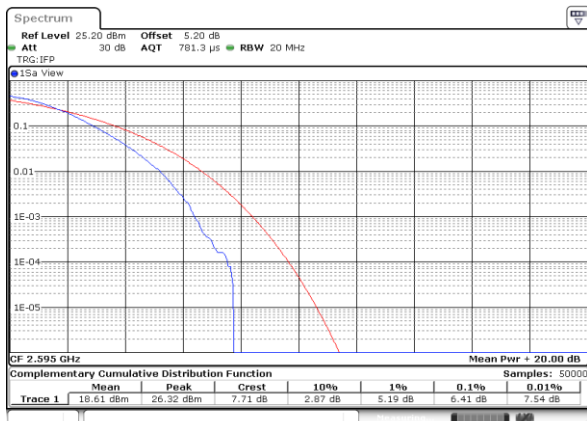
Date: 22.MAR.2021 15:33:36

64QAM



Date: 22.MAR.2021 15:36:57

256QAM



Date: 22.MAR.2021 15:37:19



26dB Bandwidth

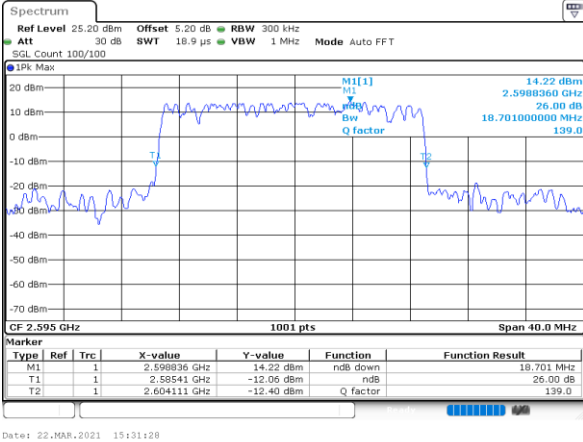
Mode	FR1 n38 : 26dB BW(MHz) / DFT-S OFDM			
BW	10MHz	15MHz	20MHz	40MHz
Mod.	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK
Middle CH	-	-	18.70	-

Mode	FR1 n38 : 26dB BW(MHz) / CP OFDM							
BW	10MHz		15MHz		20MHz		40MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	19.18	19.50	-	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	-	-	-	-	19.46	19.02	-	-



FR1 n38 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

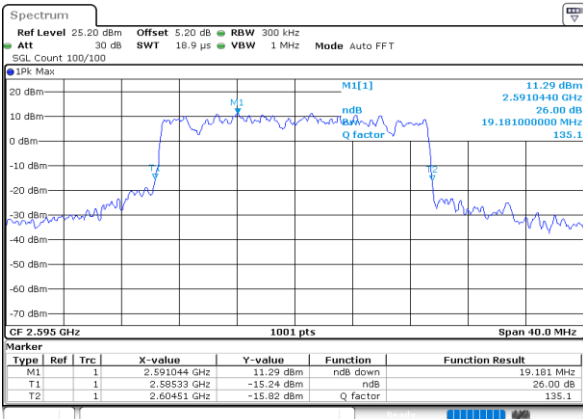
PI/2 BPSK



Date: 22.MAR.2021 15:31:28

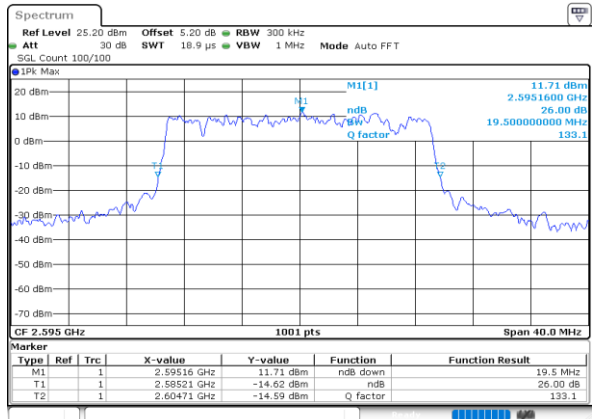
FR1 n38 / 20MHz / CP OFDM / Middle Channel / Full RB

QPSK



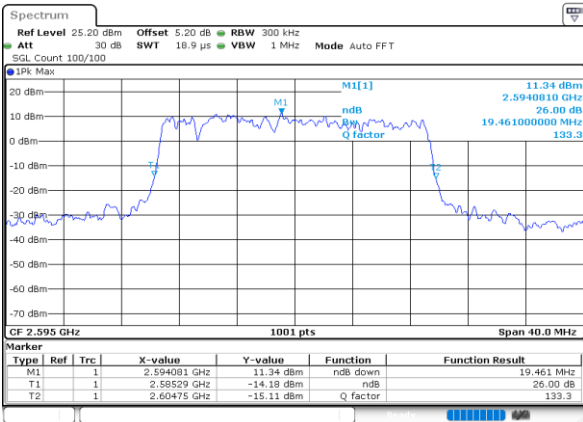
Date: 22.MAR.2021 15:47:14

16QAM



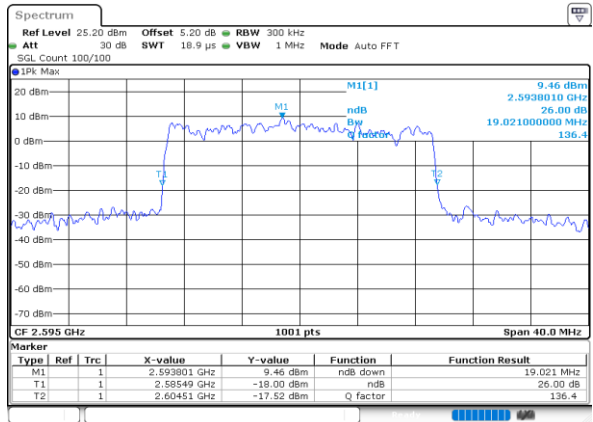
Date: 22.MAR.2021 15:47:132

64QAM



Date: 22.MAR.2021 15:47:51

256QAM



Date: 22.MAR.2021 15:48:07



Occupied Bandwidth

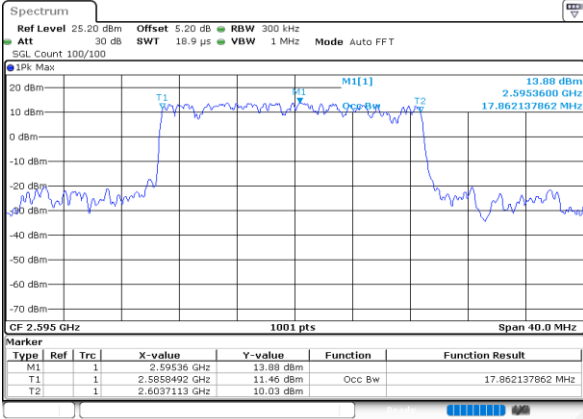
Mode	FR1 n38 : OB BW(MHz) / DFT-S OFDM			
BW	10MHz	15MHz	20MHz	40MHz
Mod.	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK
Middle CH	-	-	17.86	-

Mode	FR1 n38 : OB BW(MHz) / CP OFDM							
BW	10MHz		15MHz		20MHz		40MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	18.18	18.22	-	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	-	-	-	-	18.26	18.14	-	-



FR1 n38 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

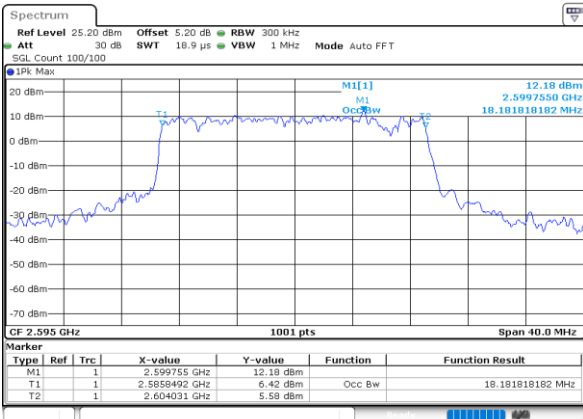
PI/2 BPSK



Date: 22.MAR.2021 15:31:21

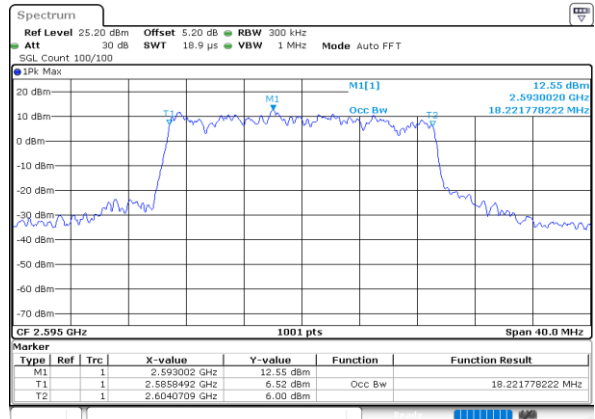
FR1 n38 / 20MHz / CP OFDM / Middle Channel / Full RB

QPSK



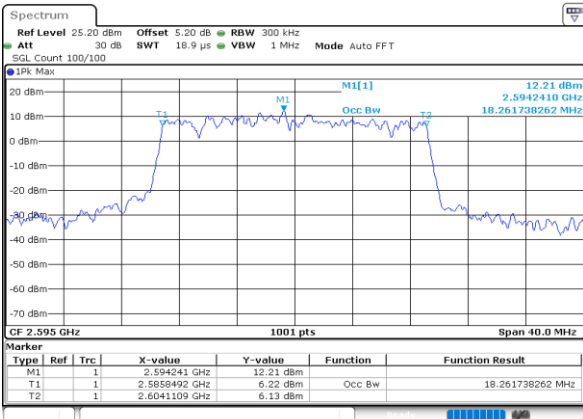
Date: 22.MAR.2021 15:46:52

16QAM



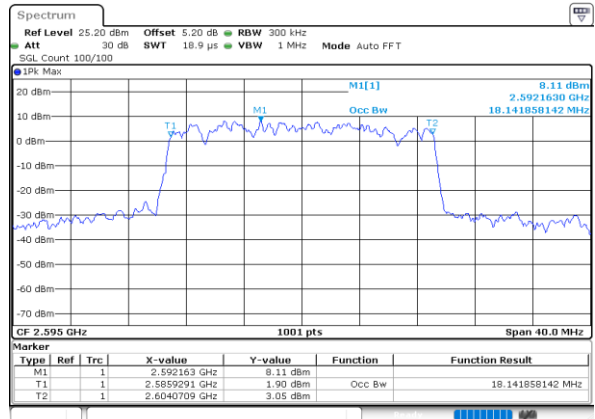
Date: 22.MAR.2021 15:47:25

64QAM



Date: 22.MAR.2021 15:47:44

256QAM



Date: 22.MAR.2021 15:48:00

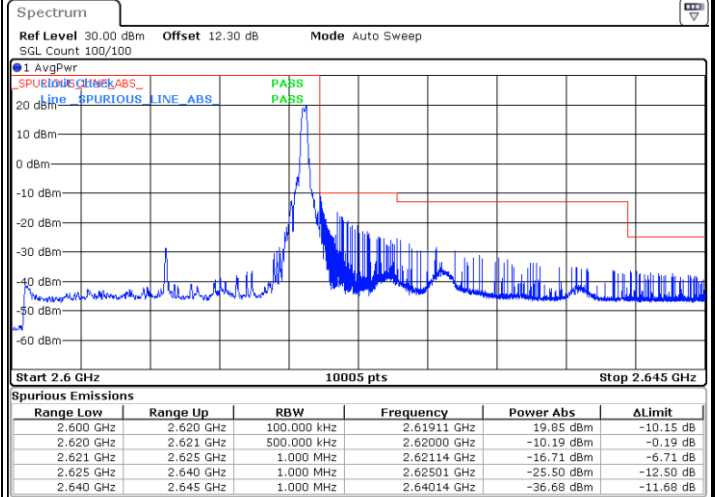
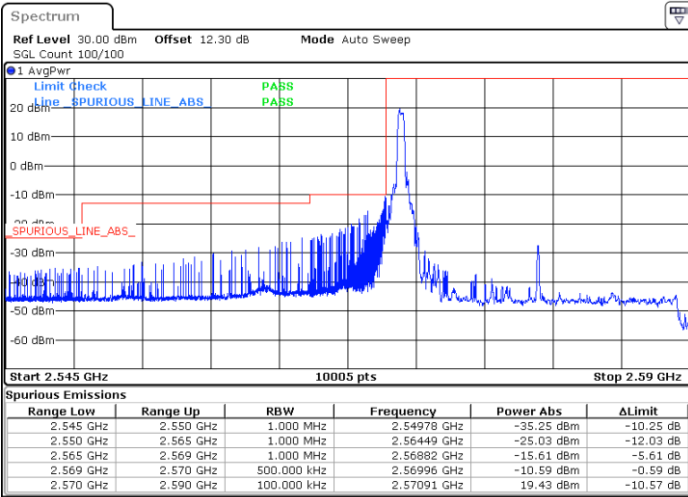


Conducted Band Edge

FR1 n38 / 20MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

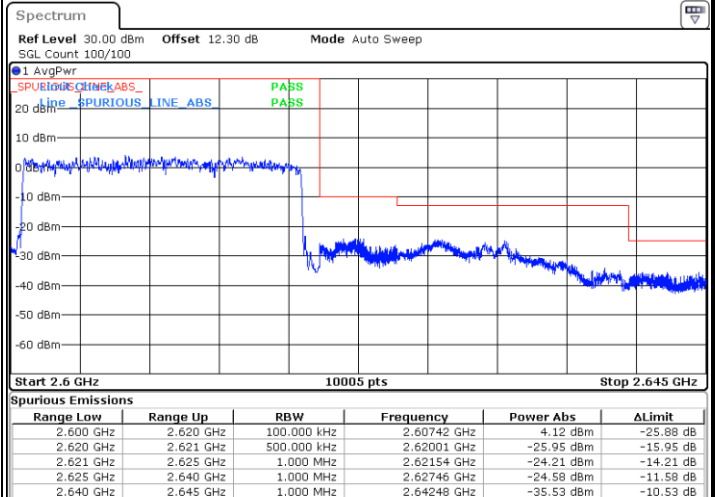
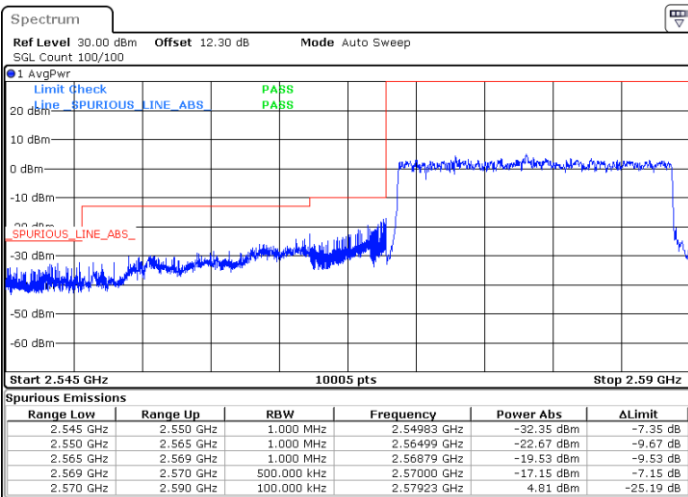


Date: 22.MAR.2021 15:59:40

Date: 22.MAR.2021 16:11:46

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 22.MAR.2021 15:59:04

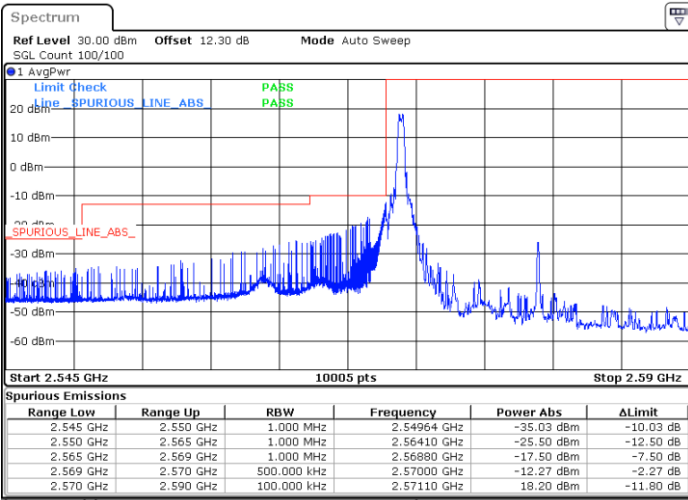
Date: 22.MAR.2021 16:12:09



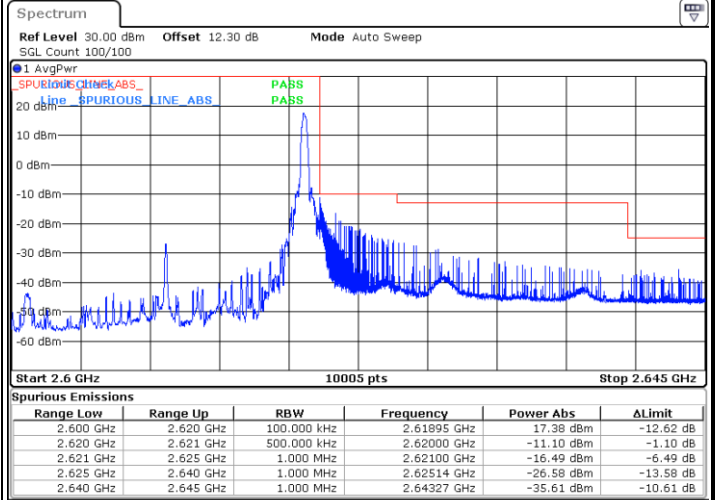
FR1 n38 / 20MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



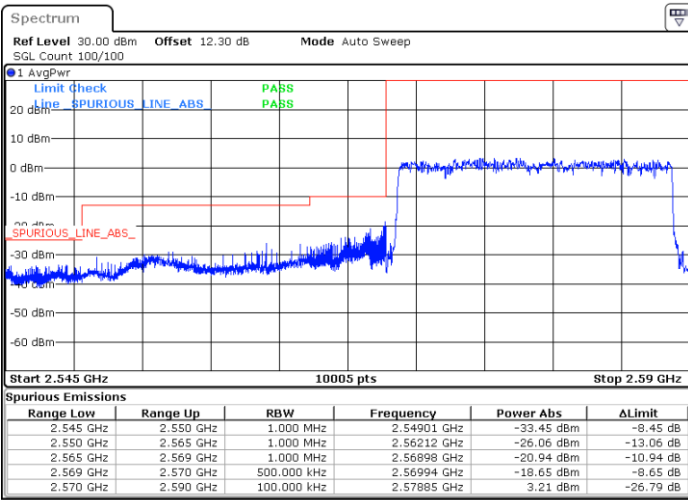
Date: 22.MAR.2021 15:52:53



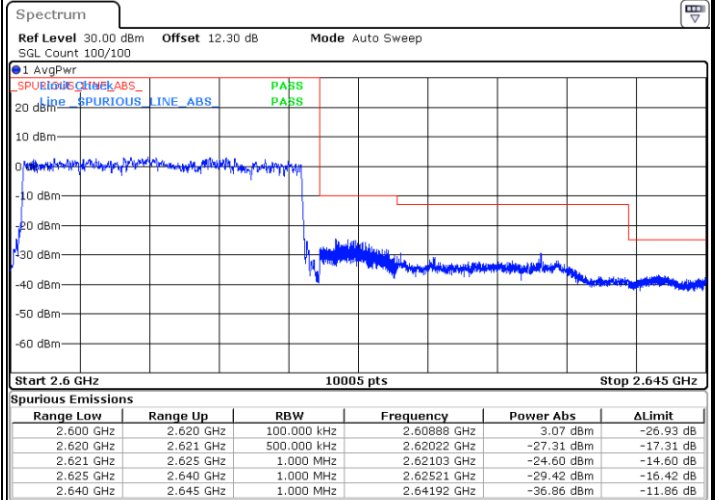
Date: 22.MAR.2021 16:02:08

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 22.MAR.2021 15:51:29



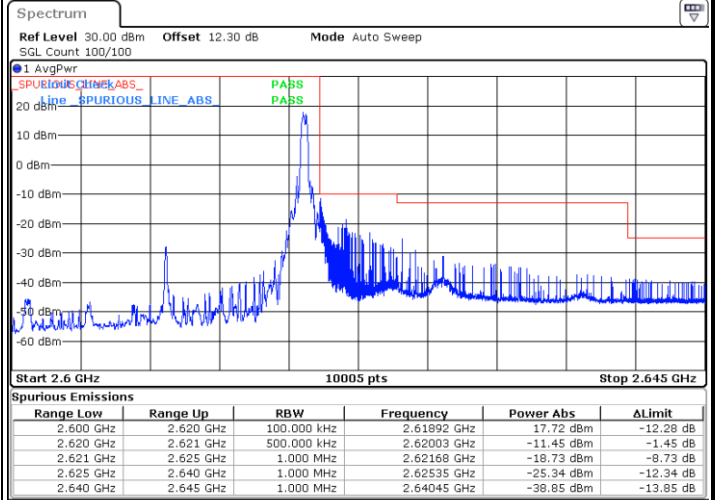
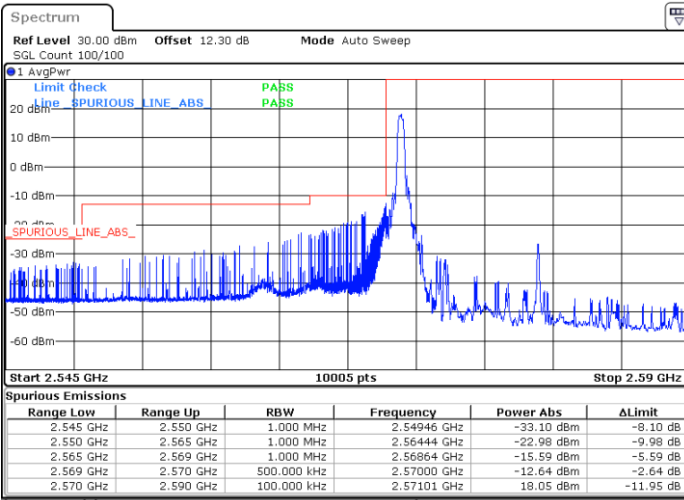
Date: 22.MAR.2021 16:05:29



FR1 n38 / 20MHz / DFT-S OFDM / 16QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

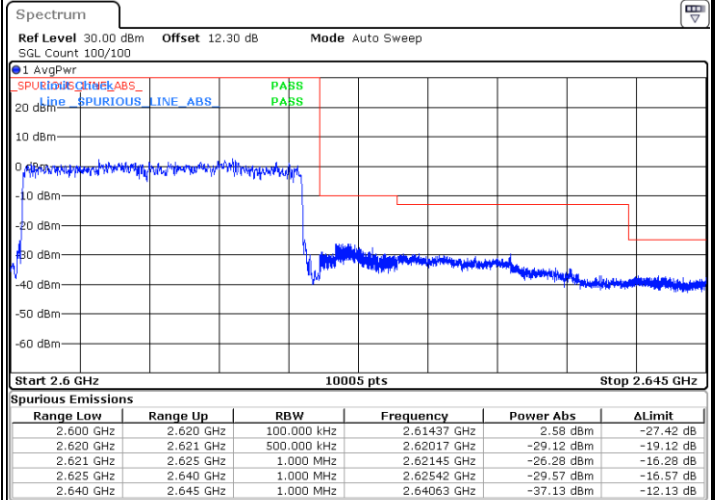
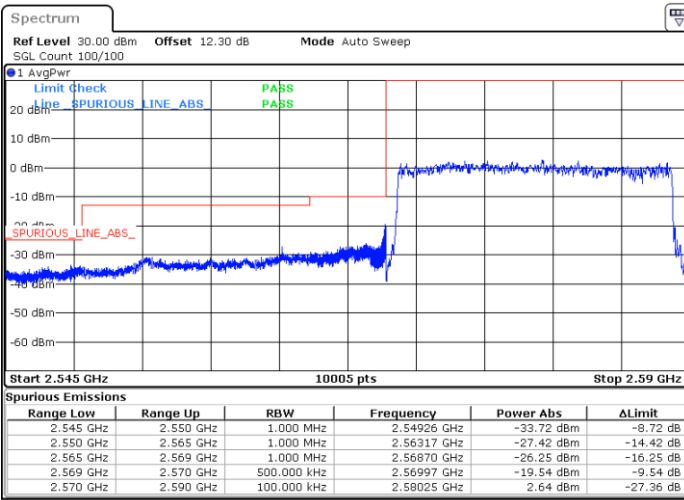


Date: 22.MAR.2021 15:54:52

Date: 22.MAR.2021 16:03:12

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 22.MAR.2021 15:55:17

Date: 22.MAR.2021 16:05:13