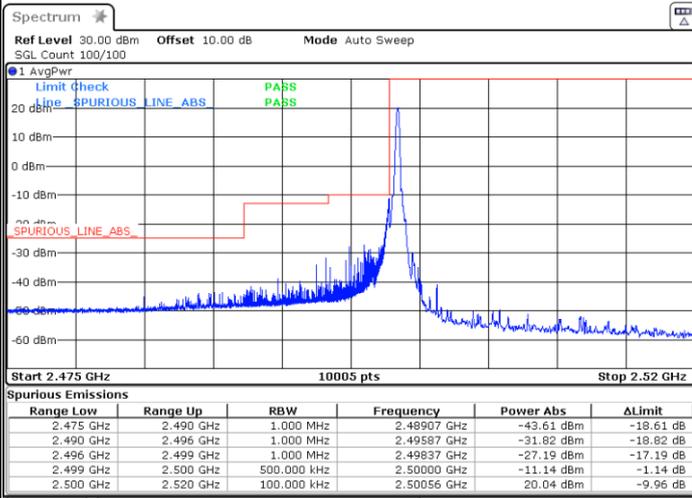




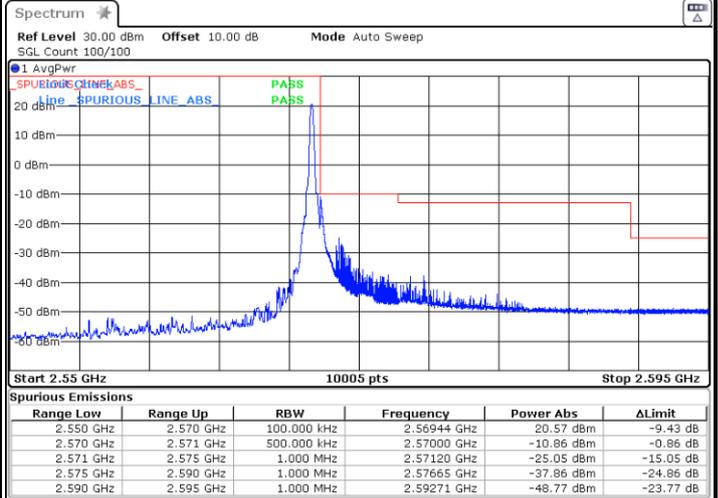
FR1 n7 / 20MHz / DFT-s-OFDM / 16QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX



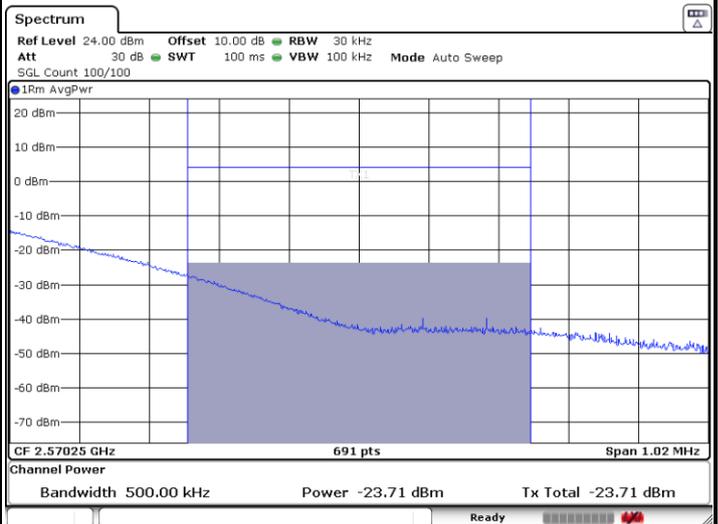
Date: 16 JAN 2021 14:25:30



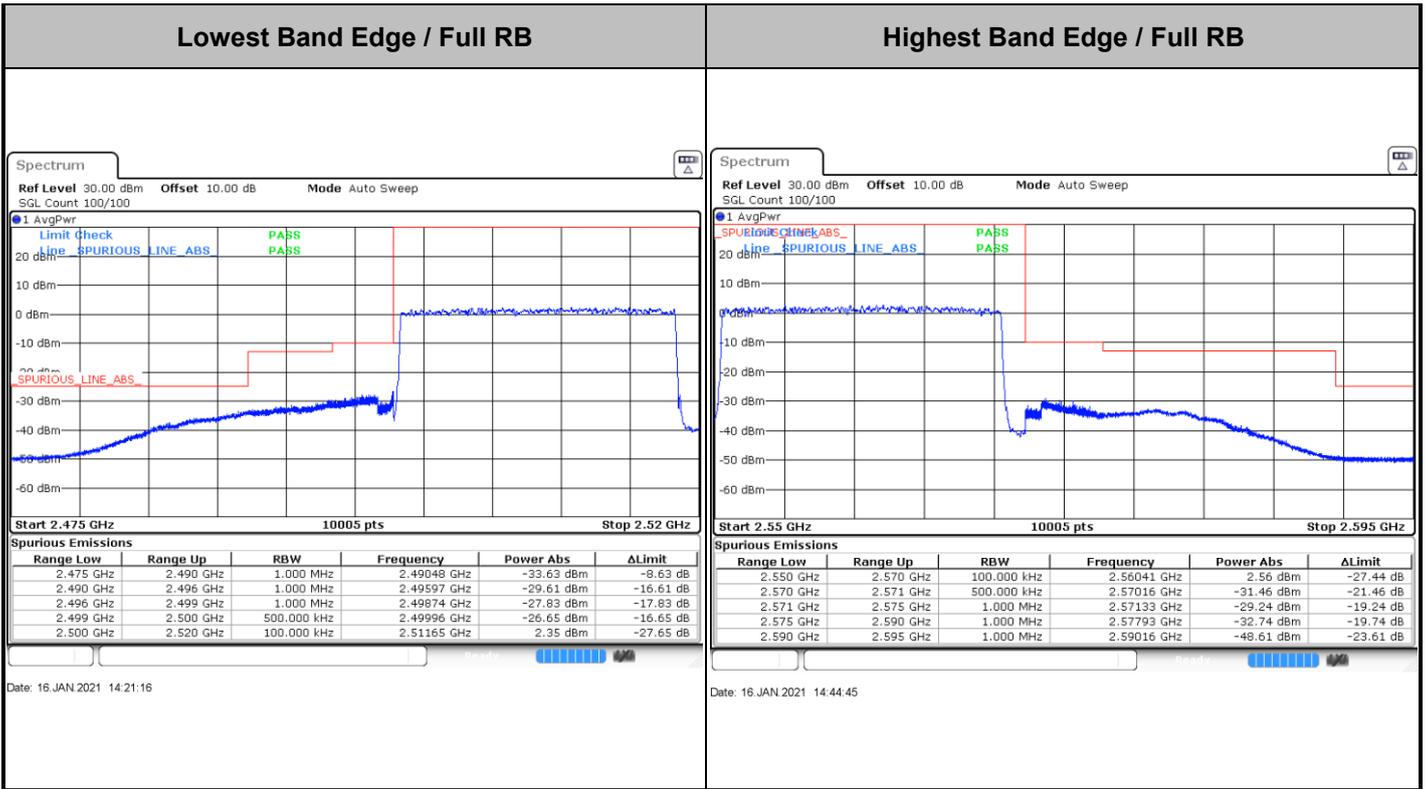
Date: 16 JAN 2021 14:56:09

Channel Power < -10dBm Pass

Channel Power < -10dBm Pass



Date: 16 JAN 2021 15:08:24

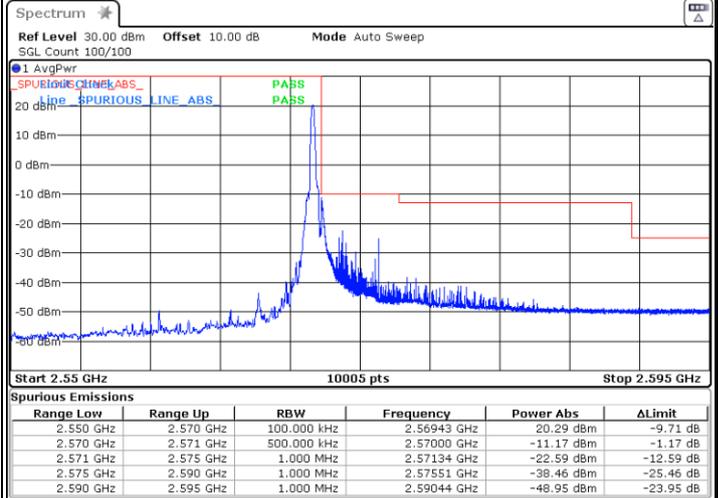
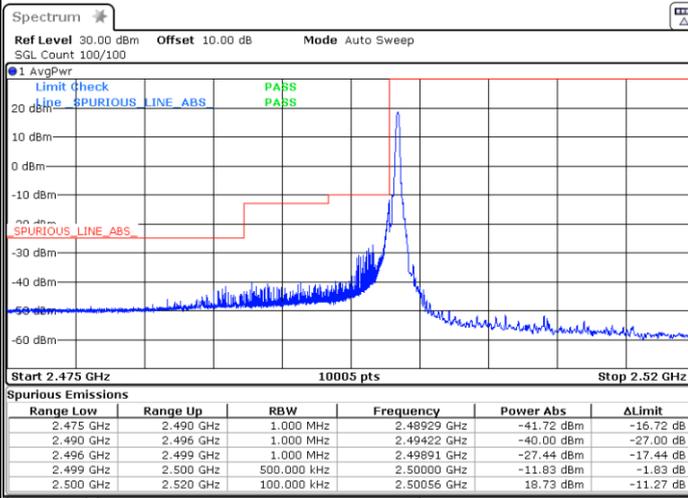




FR1 n7 / 20MHz / DFT-s-OFDM / 64QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

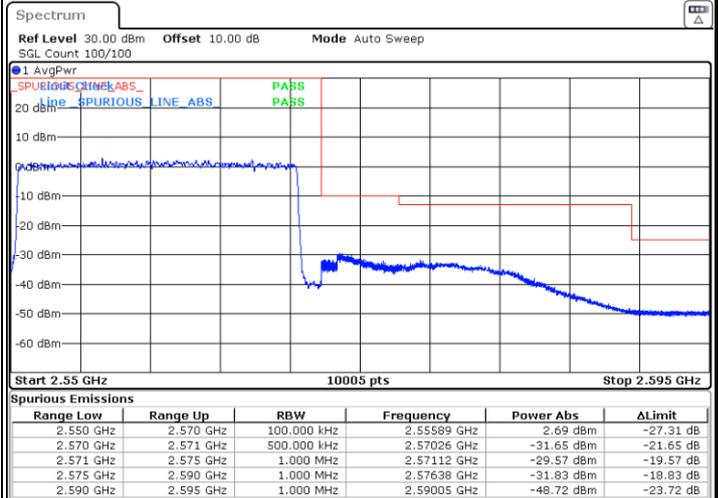
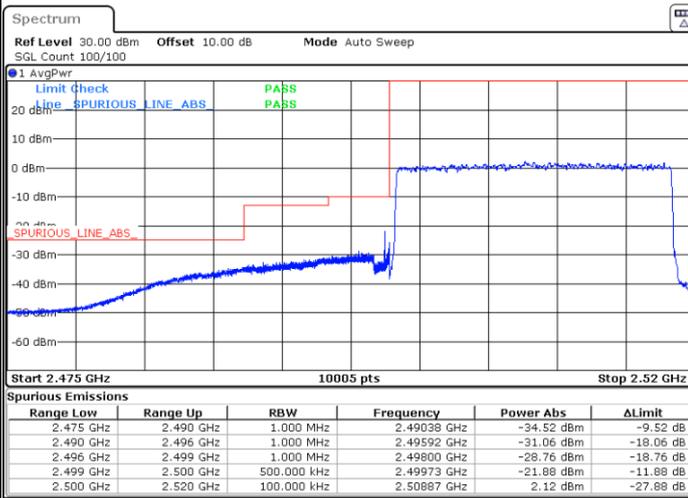


Date: 16 JAN 2021 14:24:49

Date: 16 JAN 2021 14:51:44

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 16 JAN 2021 14:21:35

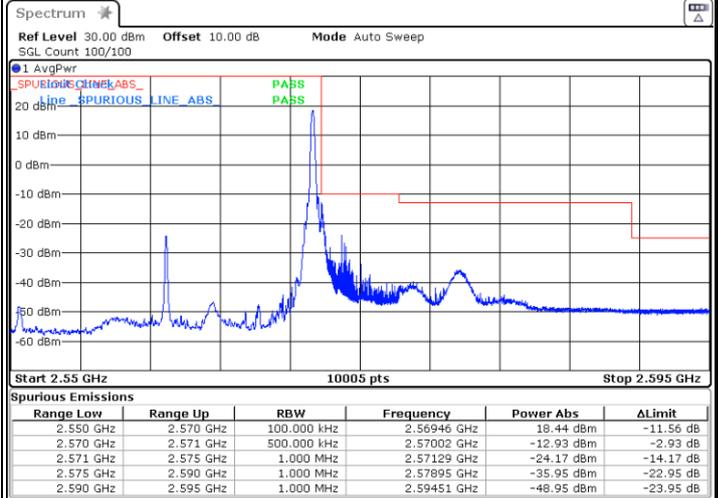
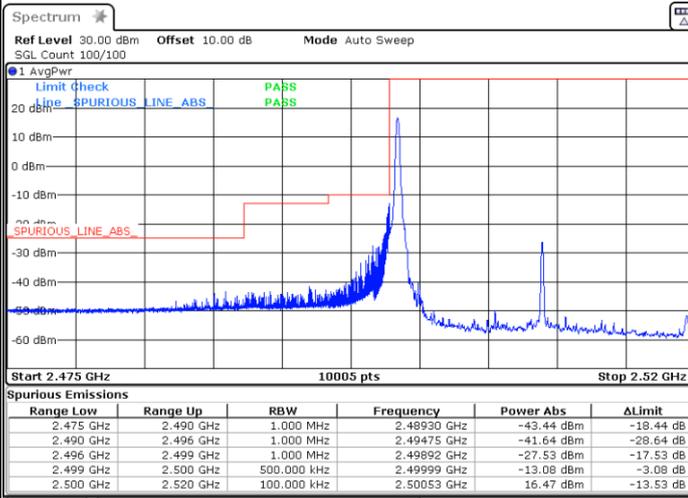
Date: 16 JAN 2021 14:45:05



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

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

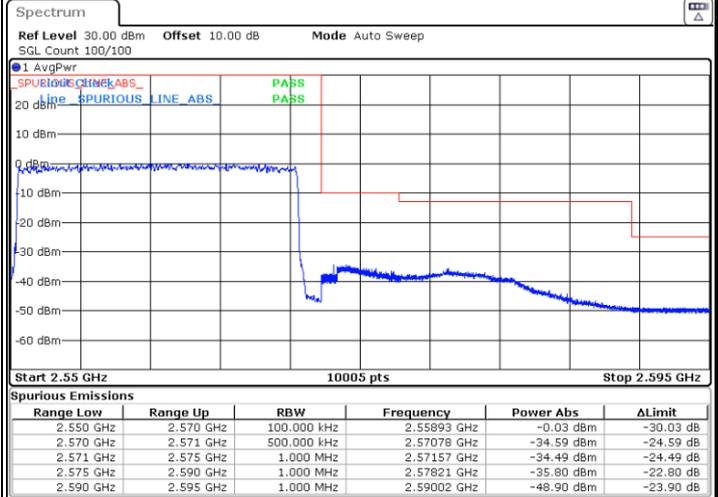
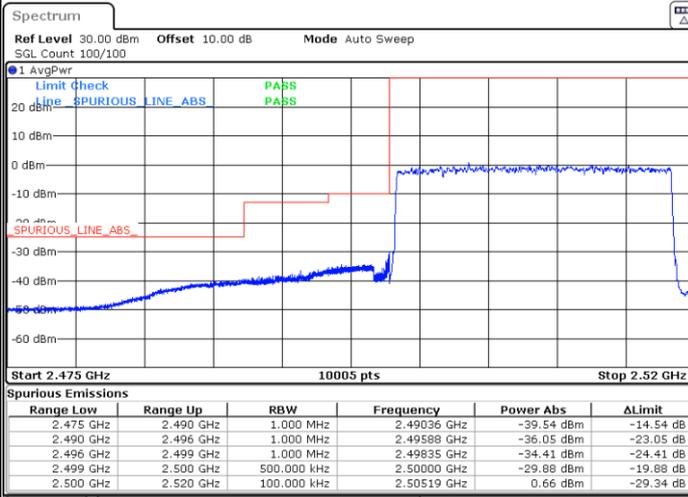


Date: 16 JAN 2021 14:23:15

Date: 16 JAN 2021 14:48:11

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 16 JAN 2021 14:22:45

Date: 16 JAN 2021 14:45:25

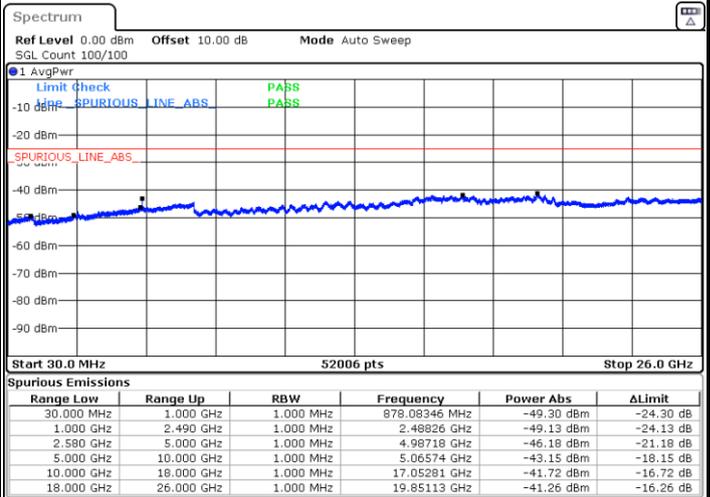
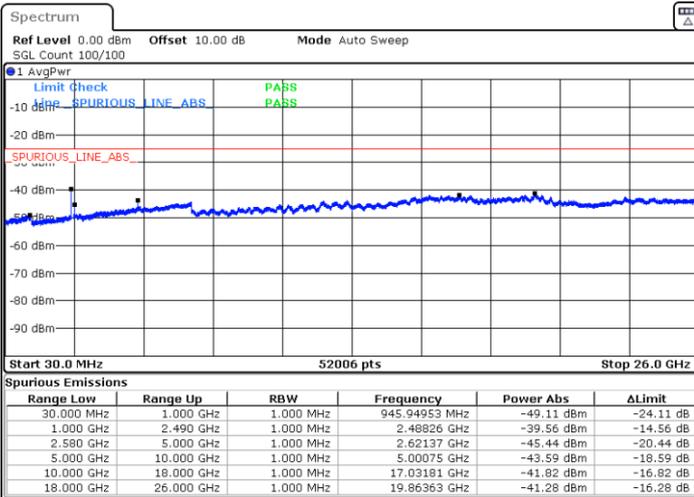


Conducted Spurious Emission

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

Lowest Channel / 1RB1

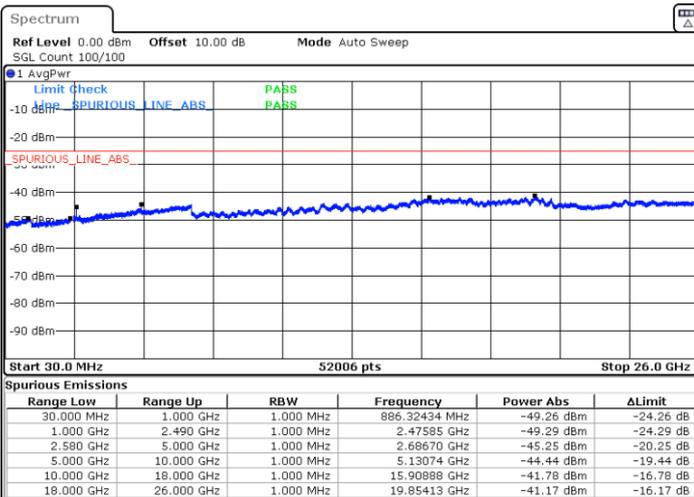
Middle Channel / 1RB1



Date: 16 JAN 2021 13:10:21

Date: 16 JAN 2021 13:11:42

Highest Channel / 1RB1

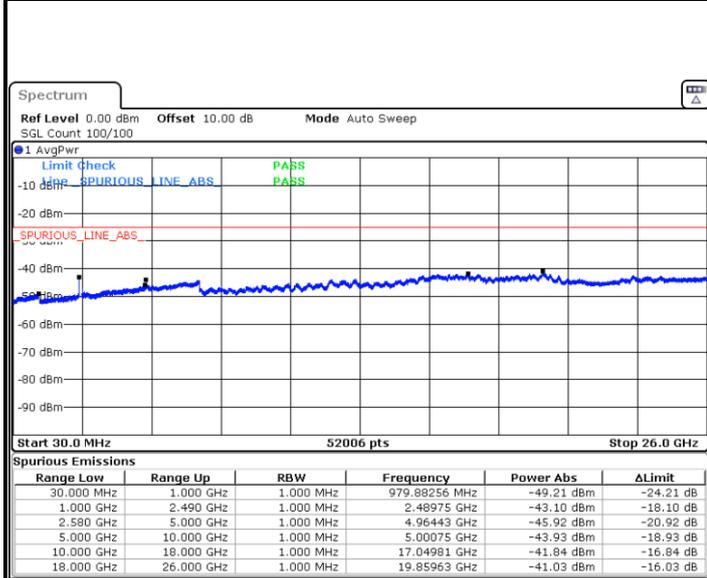


Date: 16 JAN 2021 13:14:11



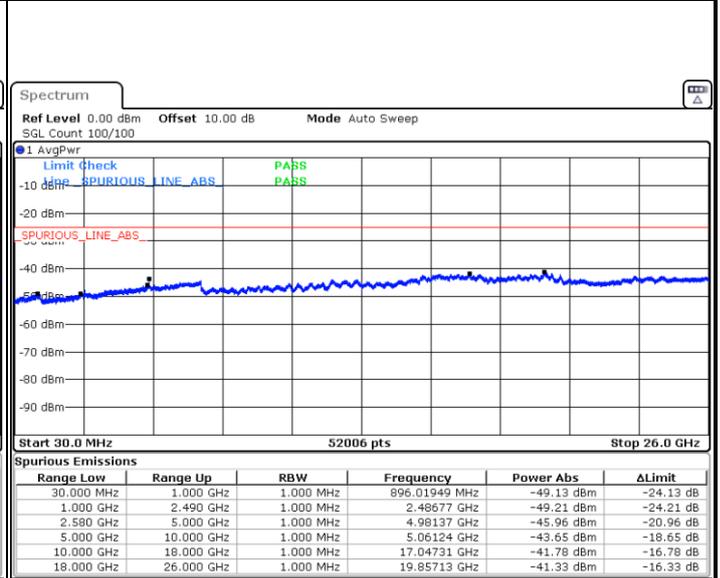
FR1 n7 / 10MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1



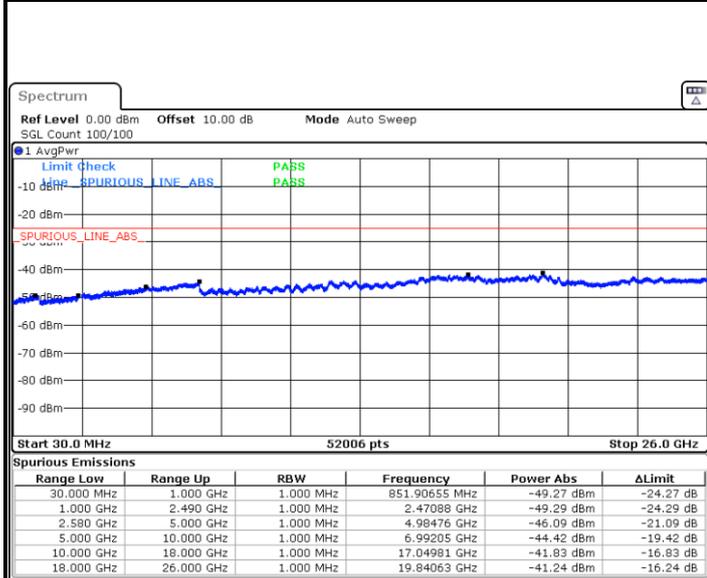
Date: 16 JAN 2021 13:31:26

Middle Channel / 1RB1



Date: 16 JAN 2021 13:32:39

Highest Channel / 1RB1



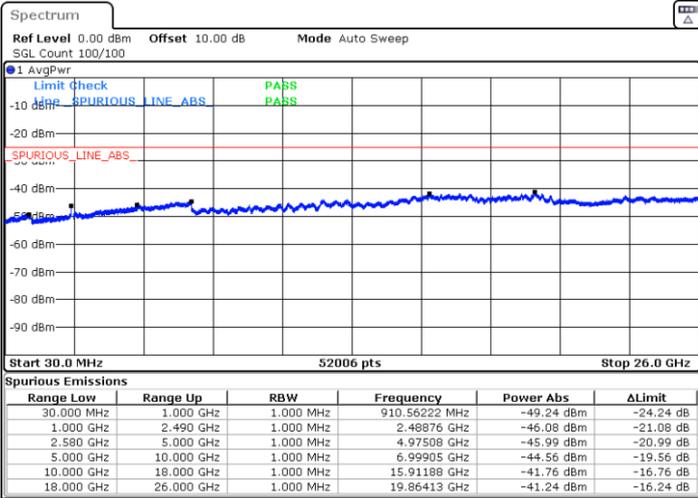
Date: 16 JAN 2021 13:50:57



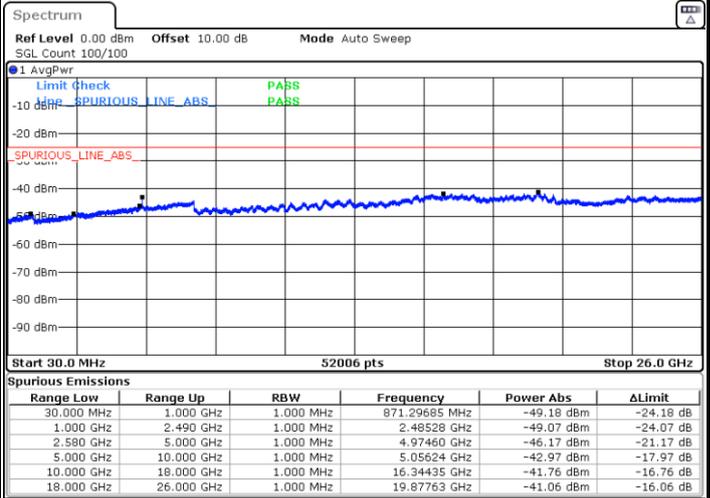
FR1 n7 / 15MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

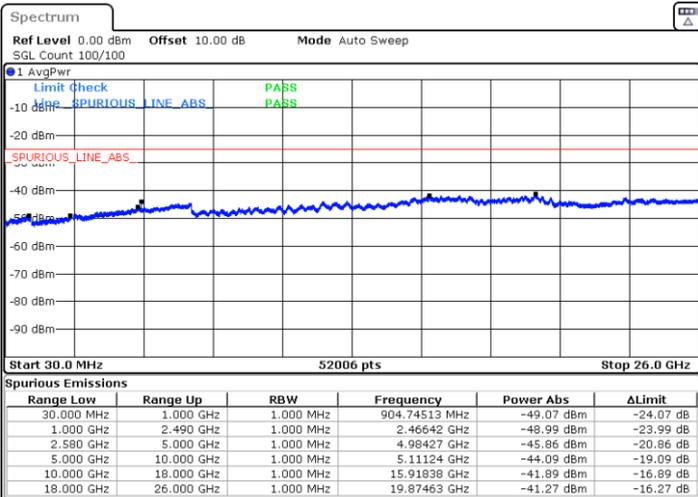


Date: 16 JAN 2021 14:06:57



Date: 16 JAN 2021 14:08:23

Highest Channel / 1RB1



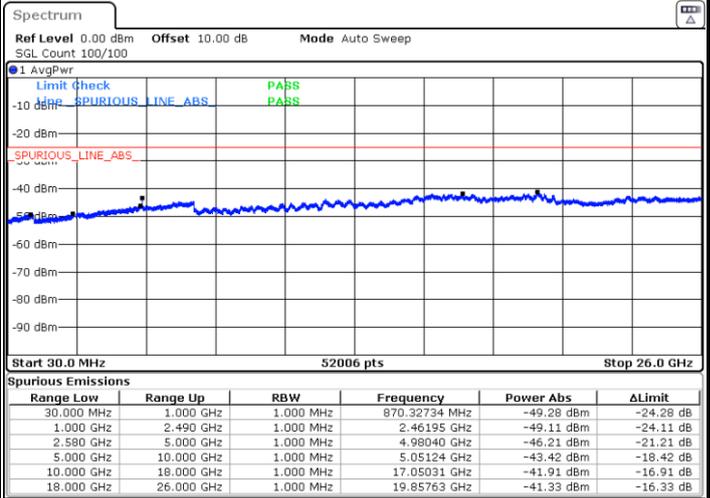
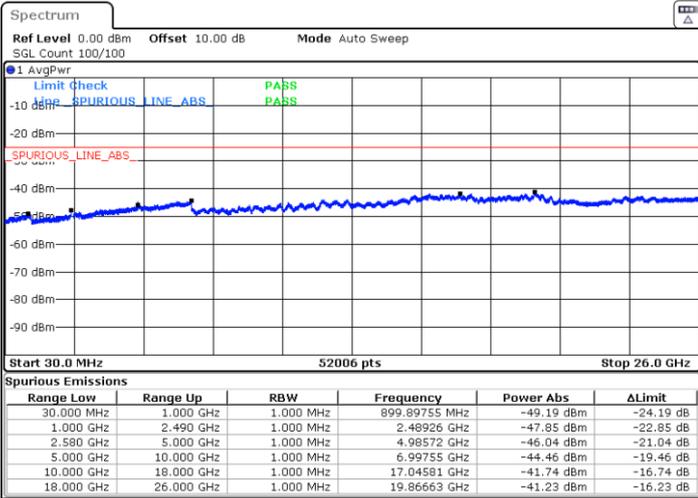
Date: 16 JAN 2021 14:09:45



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

Lowest Channel / 1RB1

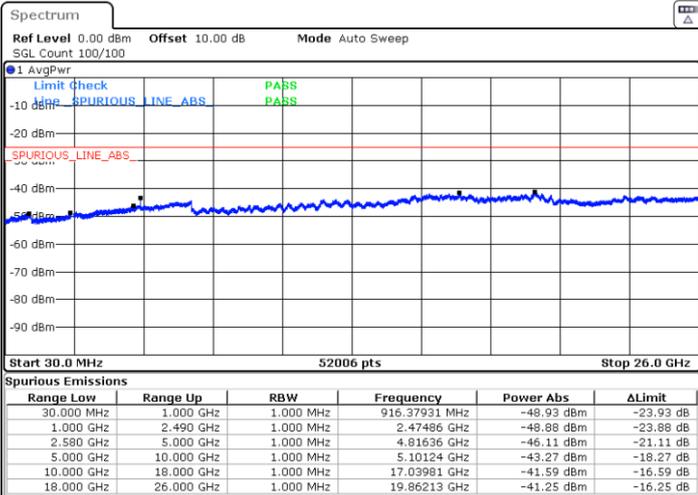
Middle Channel / 1RB1



Date: 16 JAN 2021 14:36:40

Date: 16 JAN 2021 14:38:56

Highest Channel / 1RB1



Date: 16 JAN 2021 15:01:48



Frequency Stability

Test Conditions		FR1 n7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0008	PASS
40	Normal Voltage	0.0003	
30	Normal Voltage	0.0005	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0012	
0	Normal Voltage	0.0017	
-10	Normal Voltage	0.0005	
-20	Normal Voltage	0.0008	
-30	Normal Voltage	0.0022	
20	Maximum Voltage	0.0009	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0022	

Note:

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

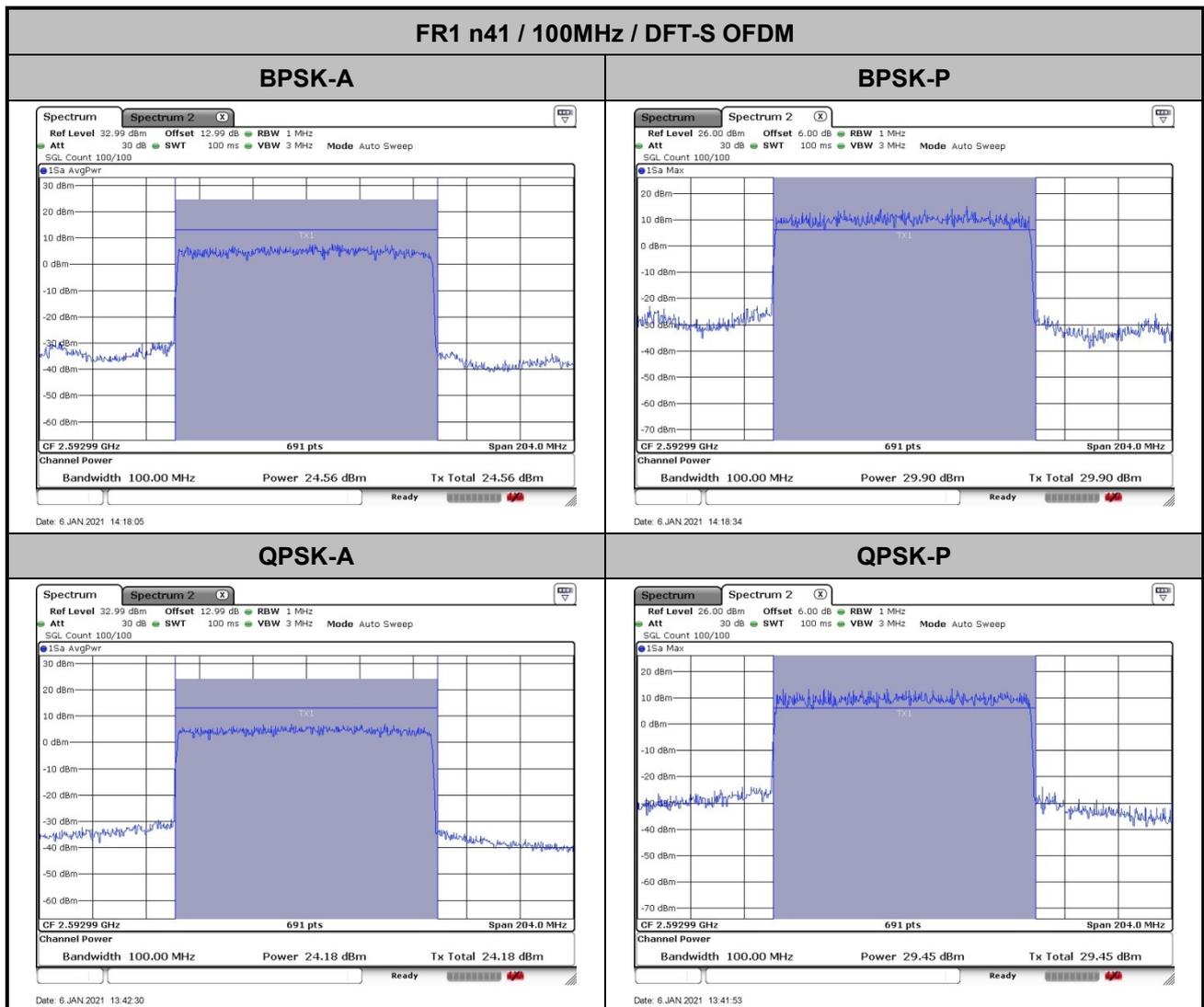


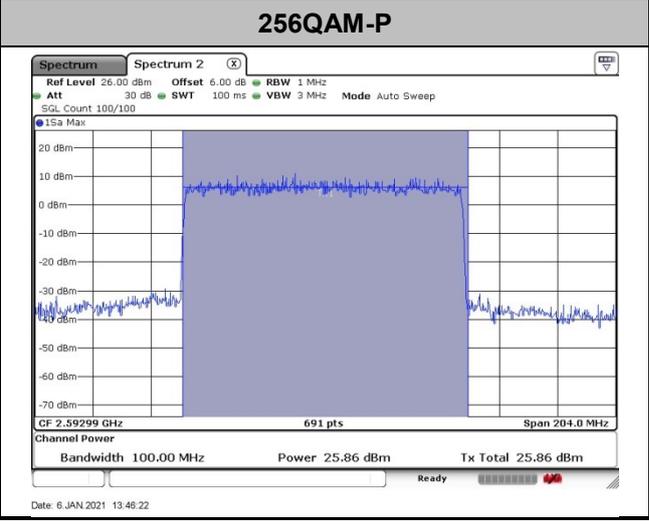
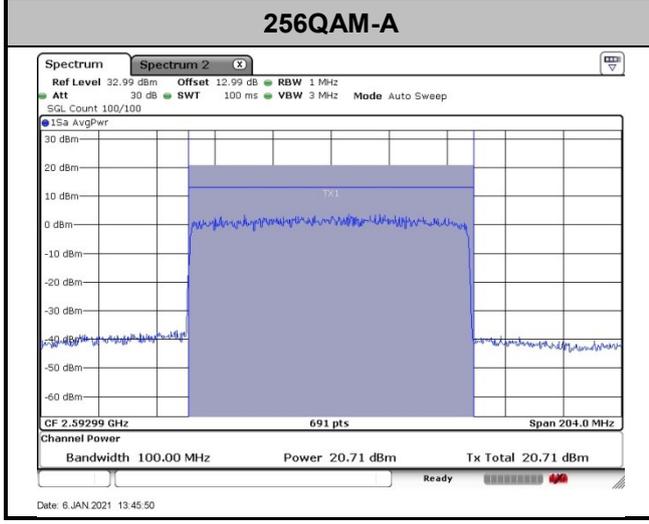
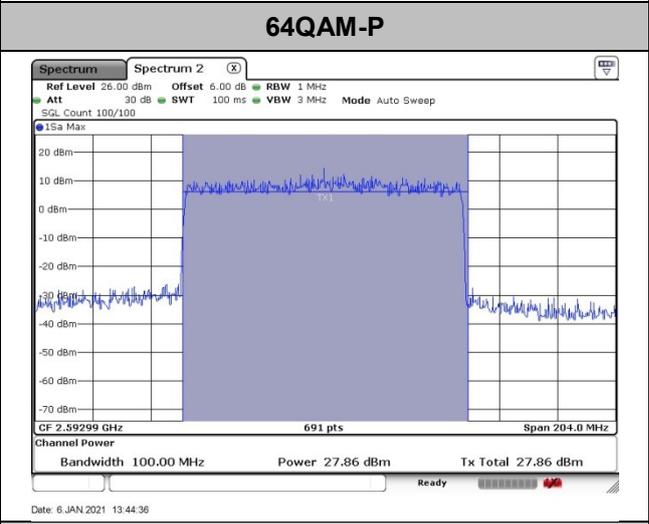
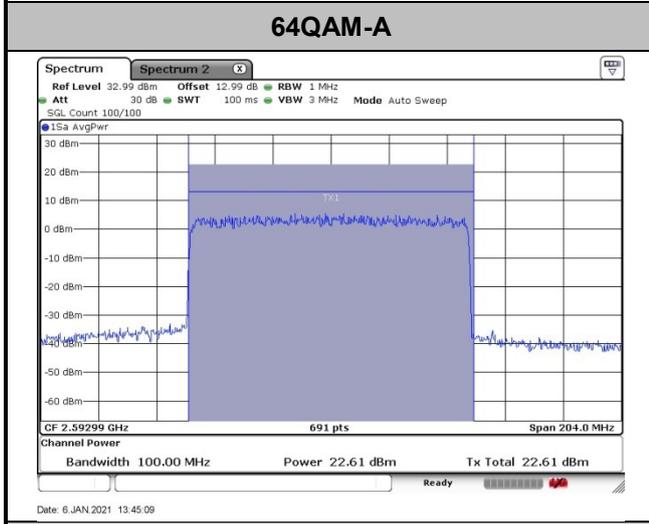
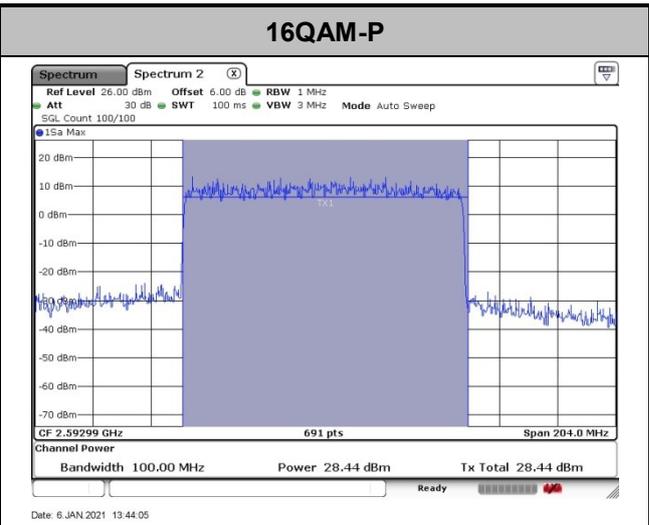
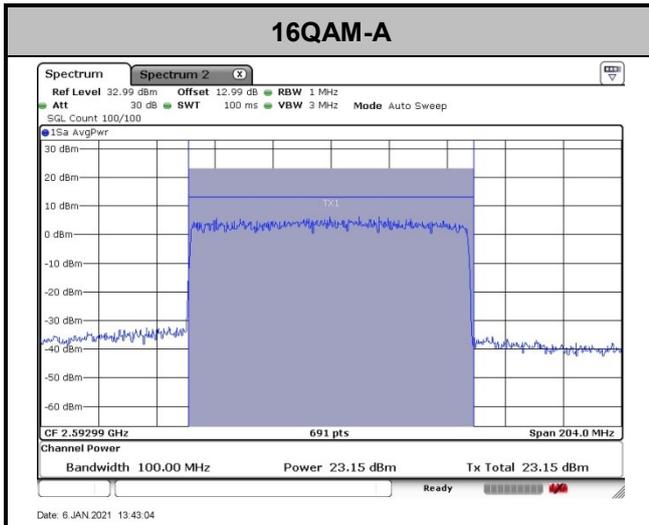
5G NR n41 Ant.2 for PA

Peak-to-Average Ratio

Mode	FR1 n41 / 100MHz / 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	5.34	5.27	5.29	5.25	PASS
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Middle CH	5.15				PASS

Note: PAR=Peak-Average

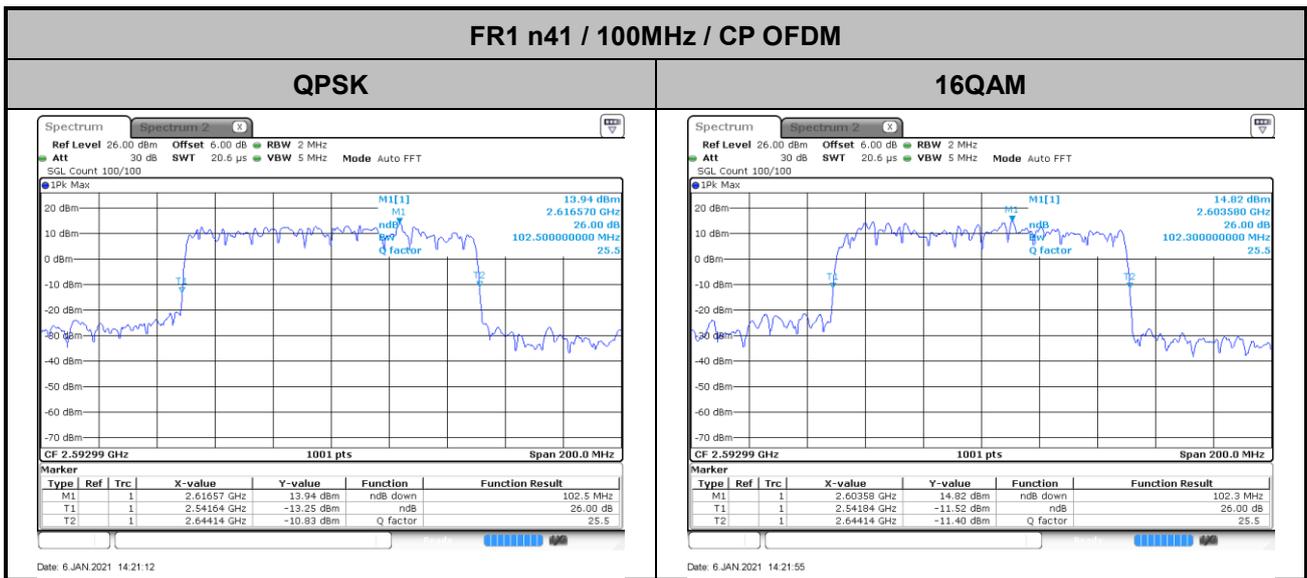






26dB Bandwidth

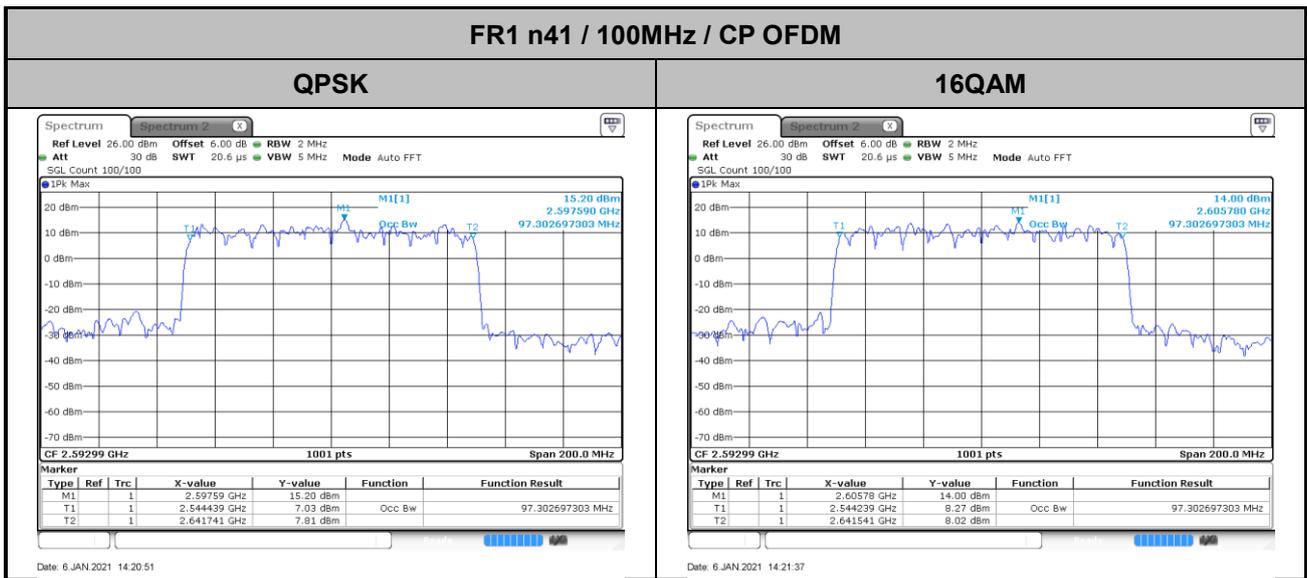
Mode	FR1 n41 : 26dB BW(MHz) / CP OFDM	
BW	100MHz	
Mod.	QPSK	16QAM
Middle CH	102.5	102.3





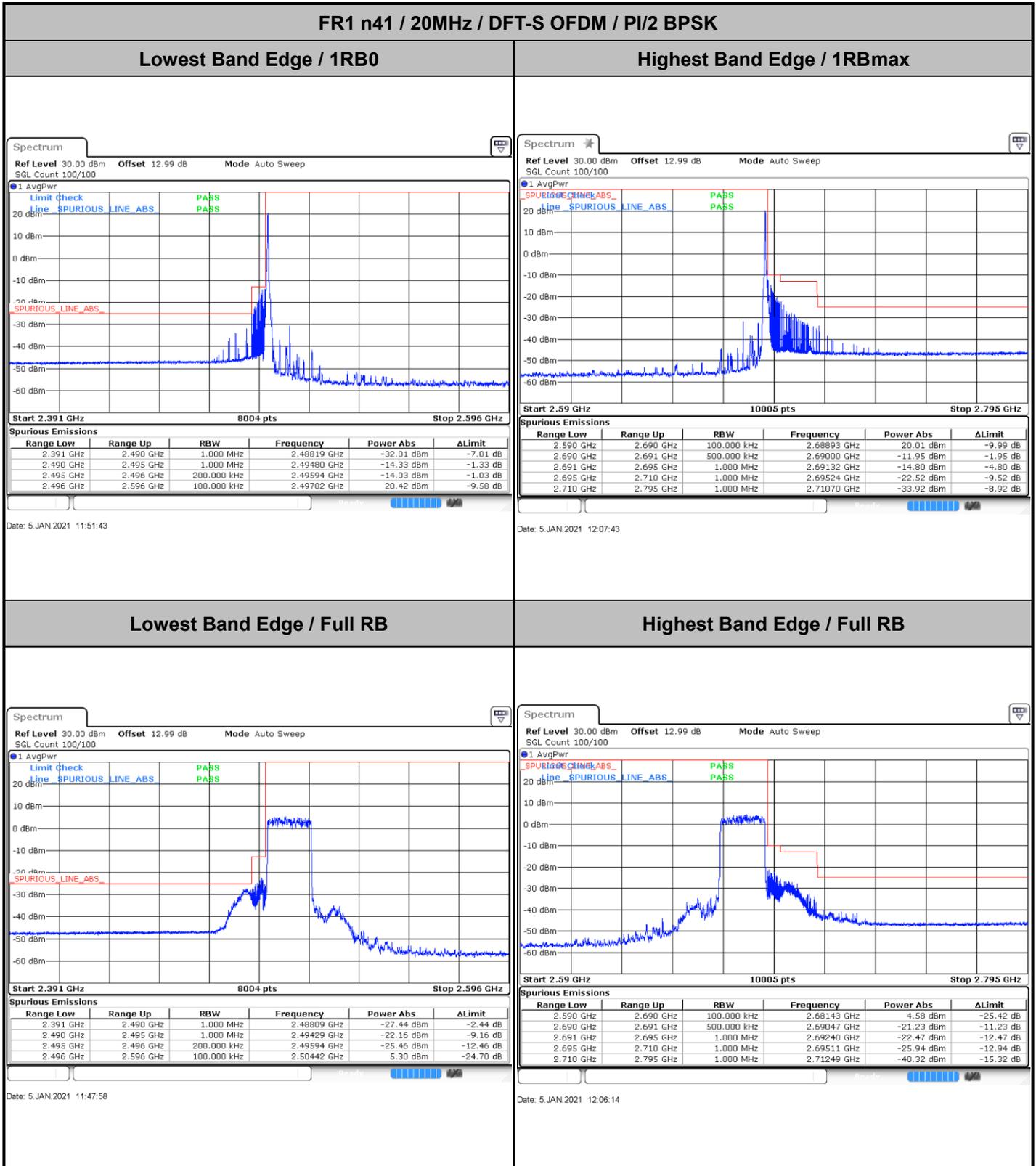
Occupied Bandwidth

Mode	FR1 n41 : 99%OBW(MHz) / CP OFDM	
BW	100MHz	
Mod.	QPSK	16QAM
Middle CH	97.30	97.30





Conducted Band Edge

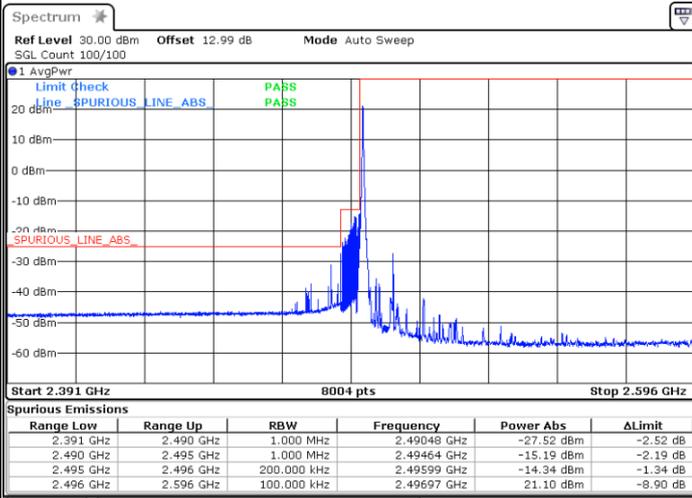




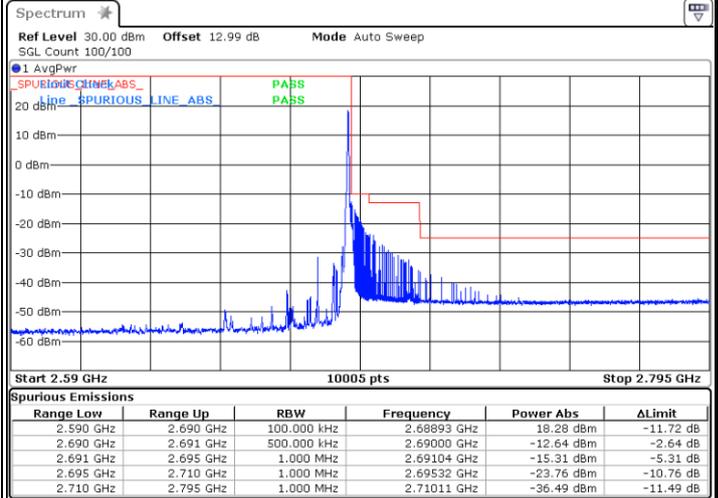
FR1 n41 / 20MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



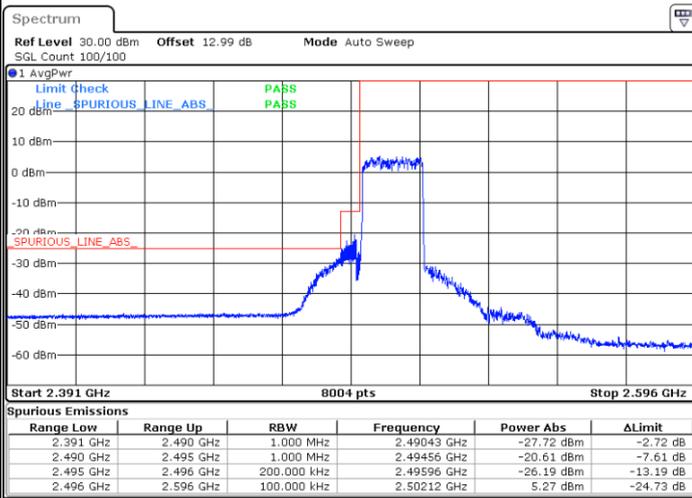
Date: 5 JAN 2021 11:51:20



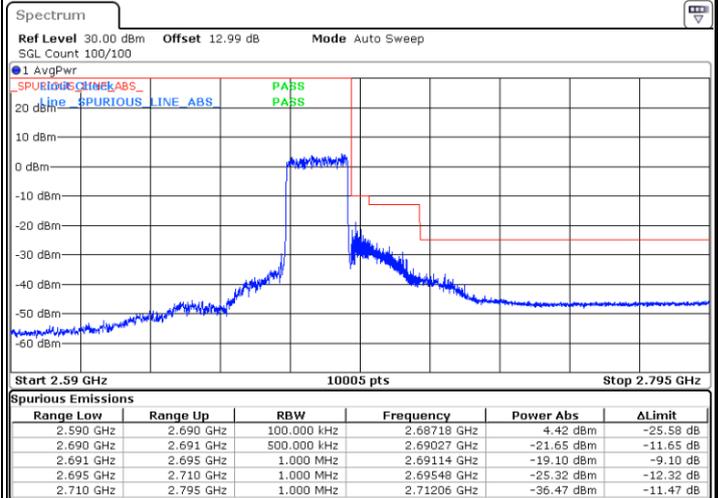
Date: 5 JAN 2021 12:00:27

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 5 JAN 2021 11:48:25



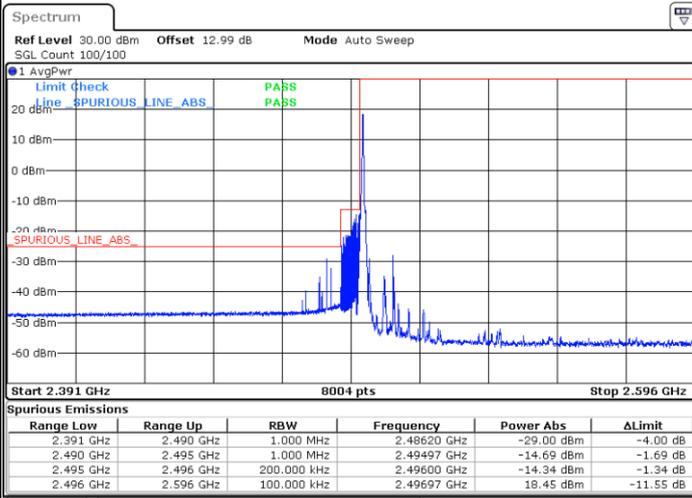
Date: 5 JAN 2021 12:05:13



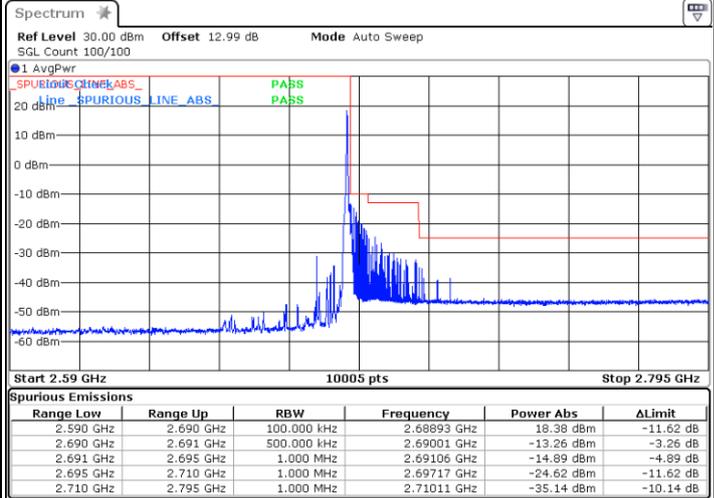
FR1 n41 / 20MHz / DFT-S OFDM / 16Q

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



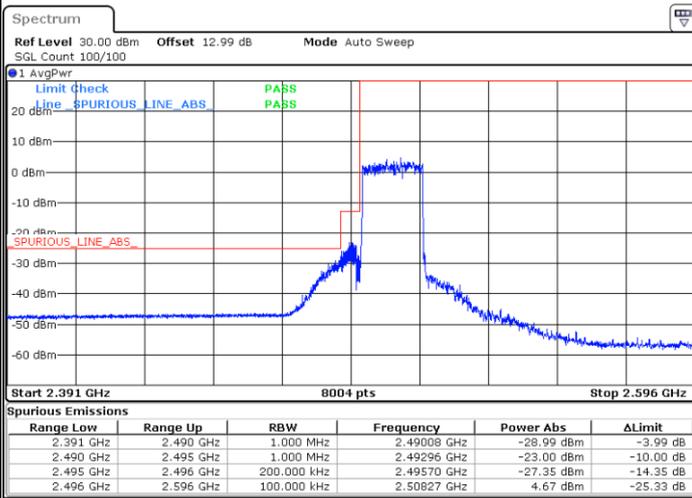
Date: 5 JAN 2021 11:50:36



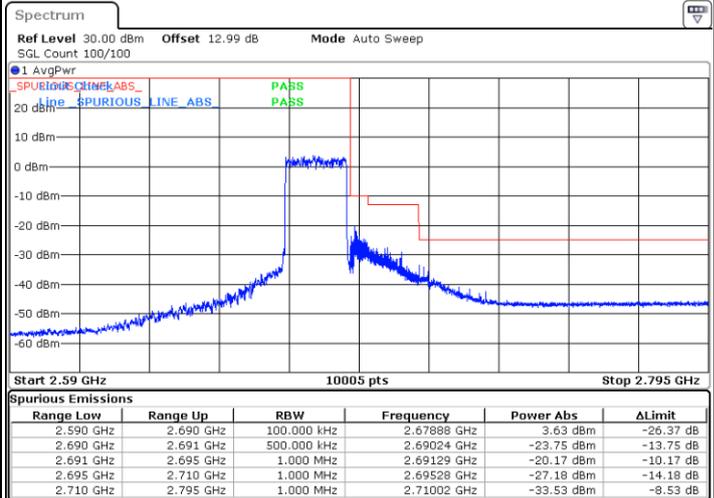
Date: 5 JAN 2021 12:01:52

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 5 JAN 2021 11:48:45

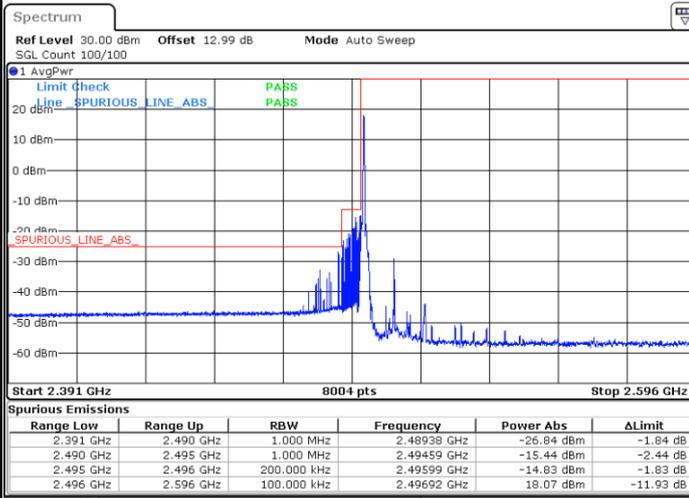


Date: 5 JAN 2021 12:04:53



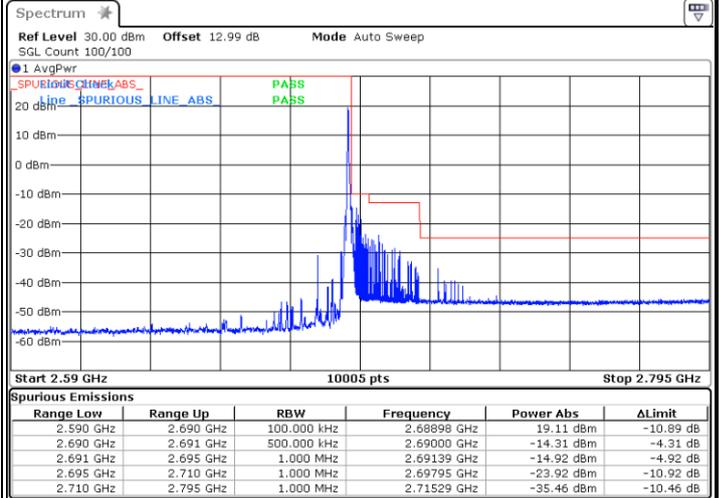
FR1 n41 / 20MHz / DFT-S OFDM / 64Q

Lowest Band Edge / 1RB0



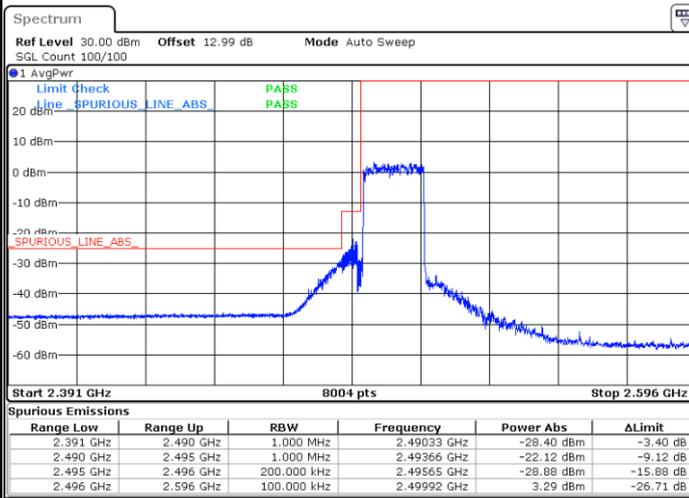
Date: 5 JAN 2021 11:50:09

Highest Band Edge / 1RB24



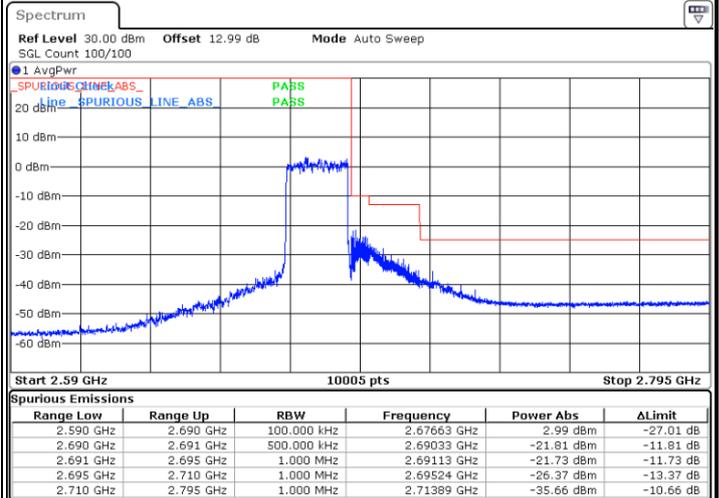
Date: 5 JAN 2021 12:03:24

Lowest Band Edge / Full RB



Date: 5 JAN 2021 11:49:08

Highest Band Edge / Full RB

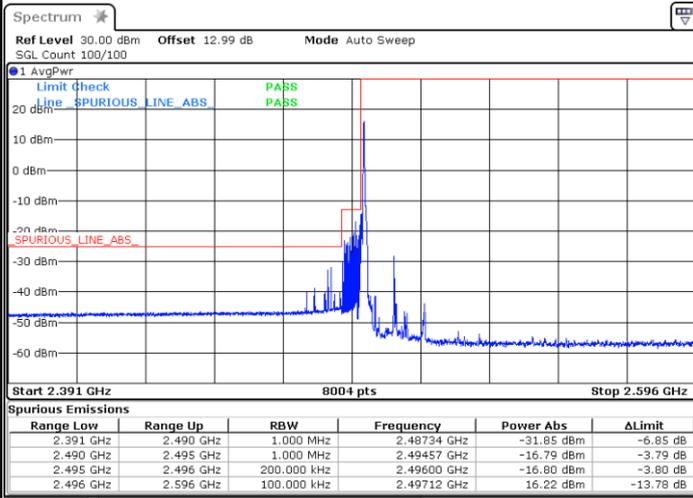


Date: 5 JAN 2021 12:04:33



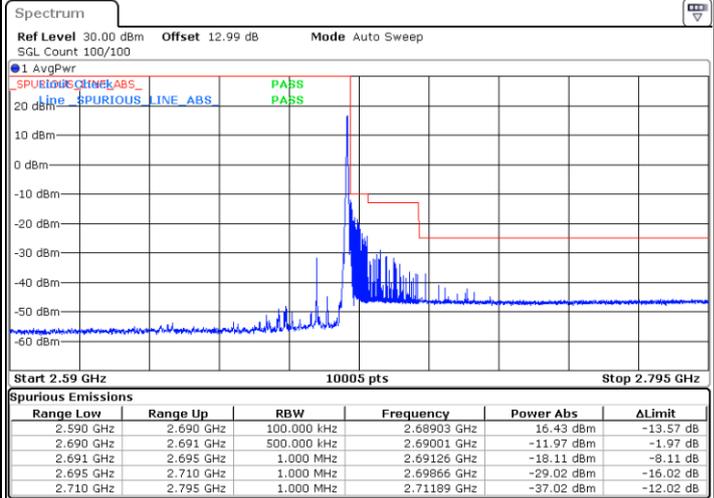
FR1 n41 / 20MHz / DFT-S OFDM / 256Q

Lowest Band Edge / 1RB0



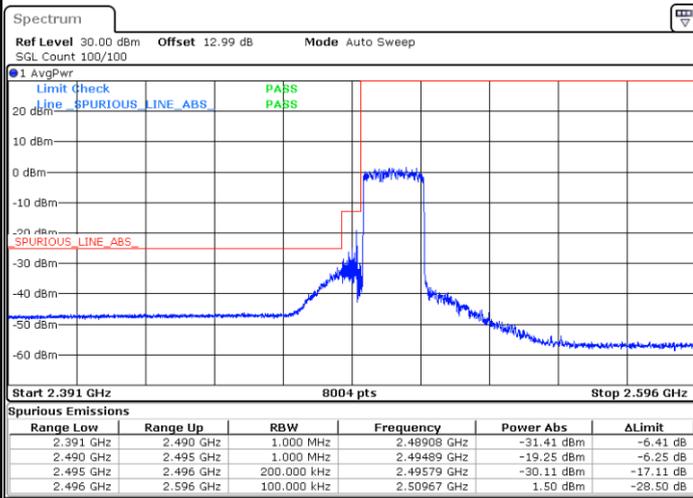
Date: 5 JAN 2021 11:54:13

Highest Band Edge / 1RB24



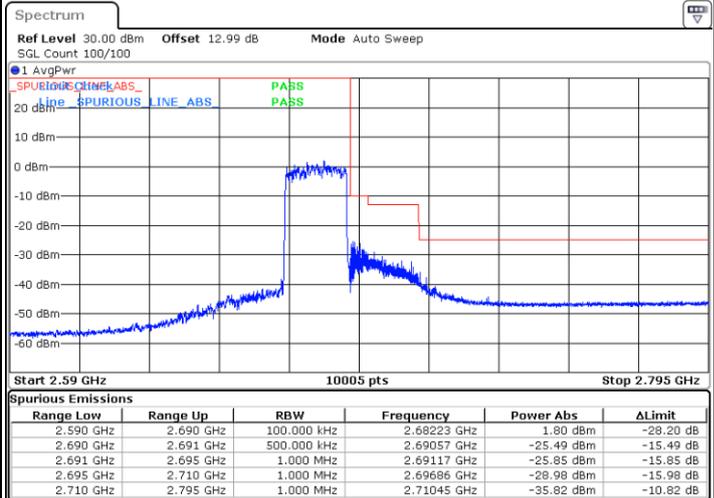
Date: 5 JAN 2021 12:03:48

Lowest Band Edge / Full RB



Date: 5 JAN 2021 11:54:37

Highest Band Edge / Full RB



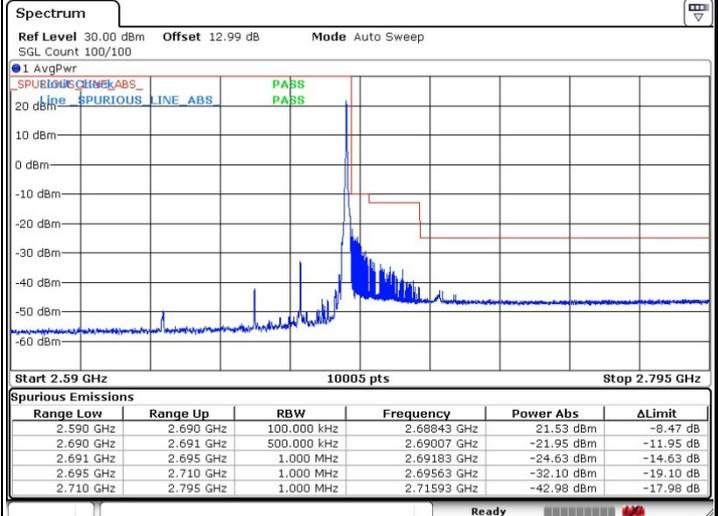
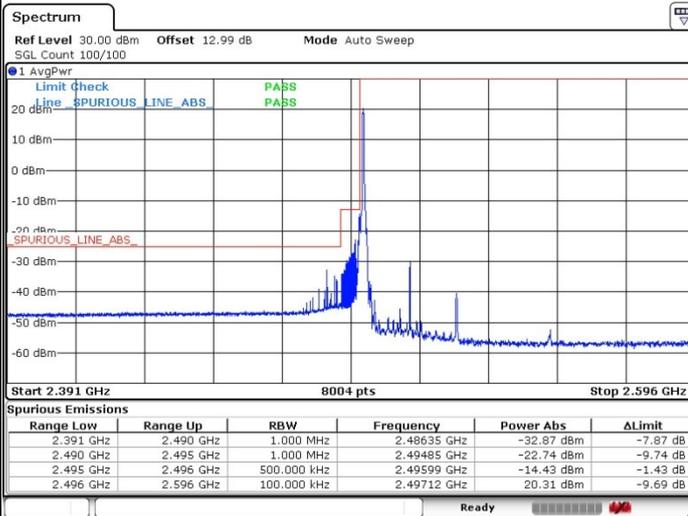
Date: 5 JAN 2021 12:04:12



FR1 n41 / 30MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

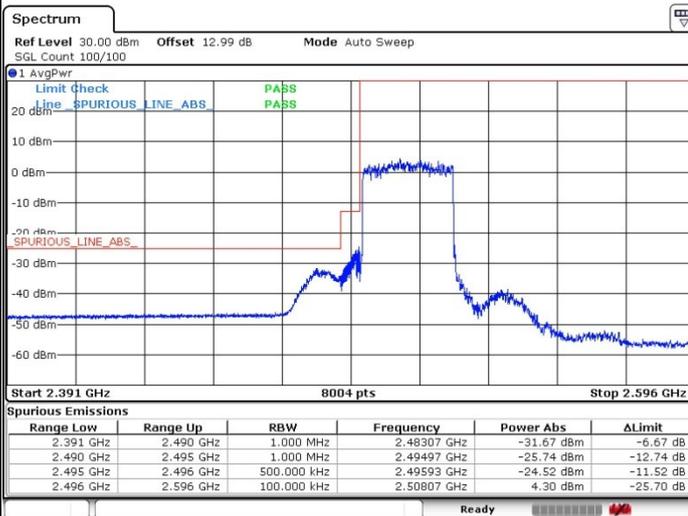


Date: 5 JAN 2021 13:41:17

Date: 5 JAN 2021 13:51:06

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 5 JAN 2021 13:34:55

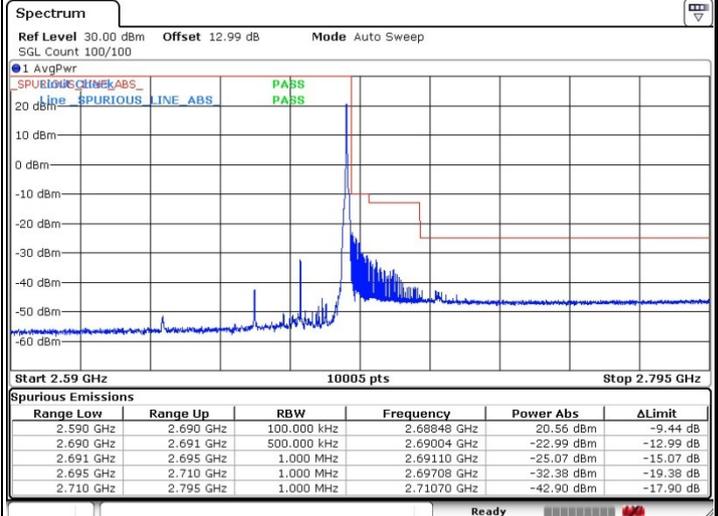
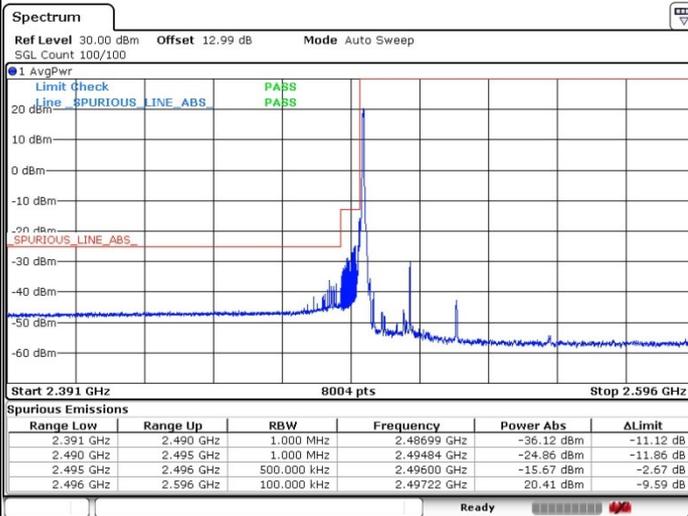
Date: 5 JAN 2021 13:50:30



FR1 n41 / 30MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

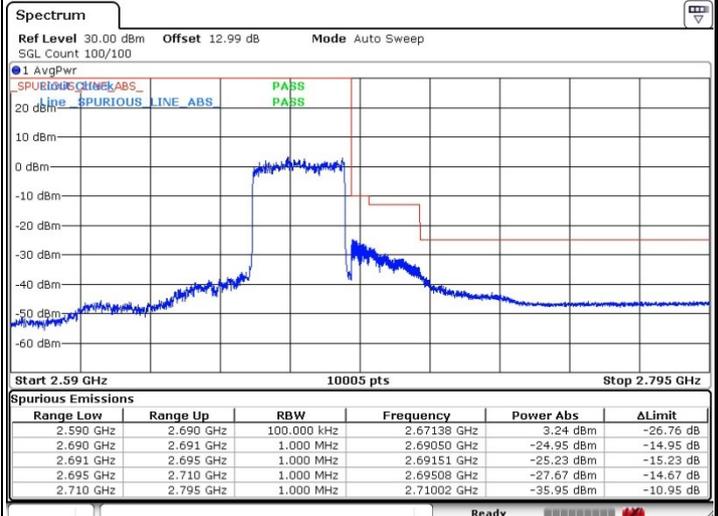
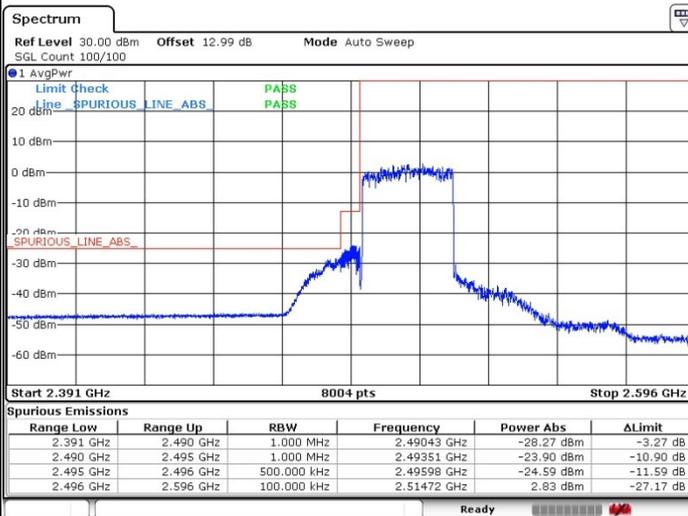


Date: 5 JAN 2021 13:40:10

Date: 5 JAN 2021 13:46:48

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 5 JAN 2021 13:35:10

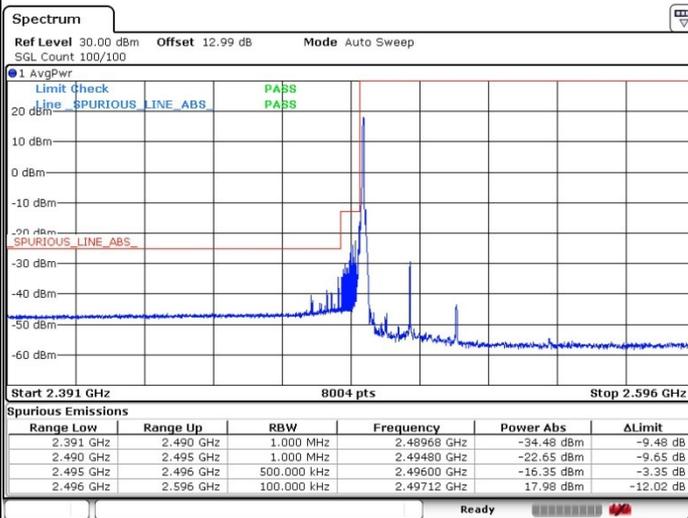
Date: 5 JAN 2021 13:49:43



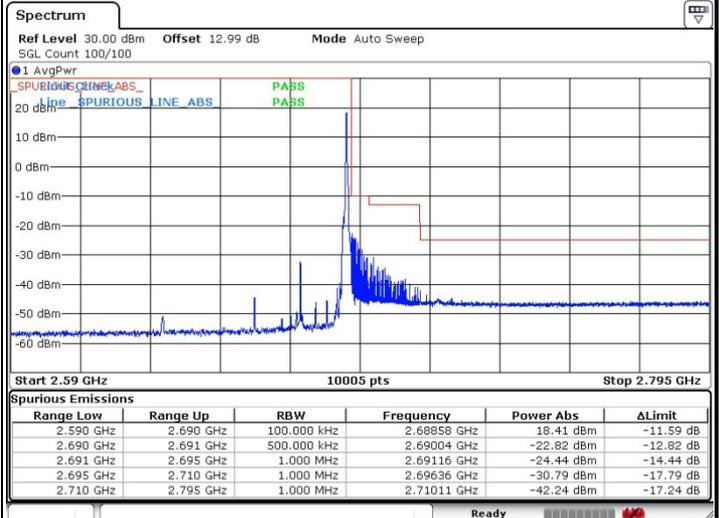
FR1 n41 / 30MHz / DFT-S OFDM / 16Q

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



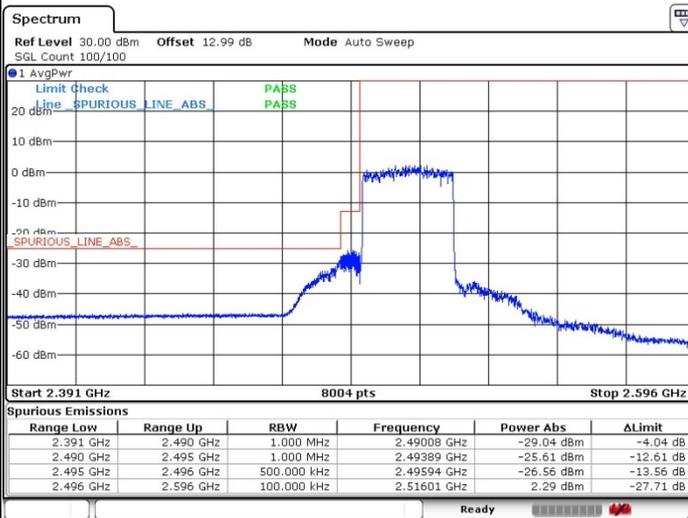
Date: 5 JAN 2021 13:38:55



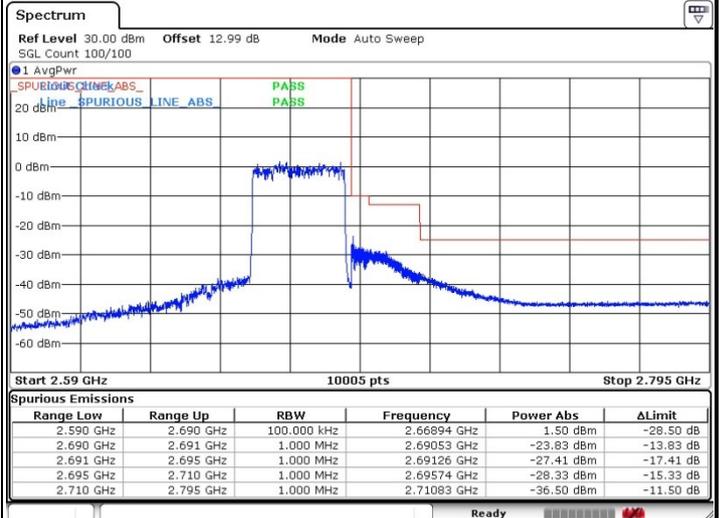
Date: 5 JAN 2021 13:47:20

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 5 JAN 2021 13:35:24

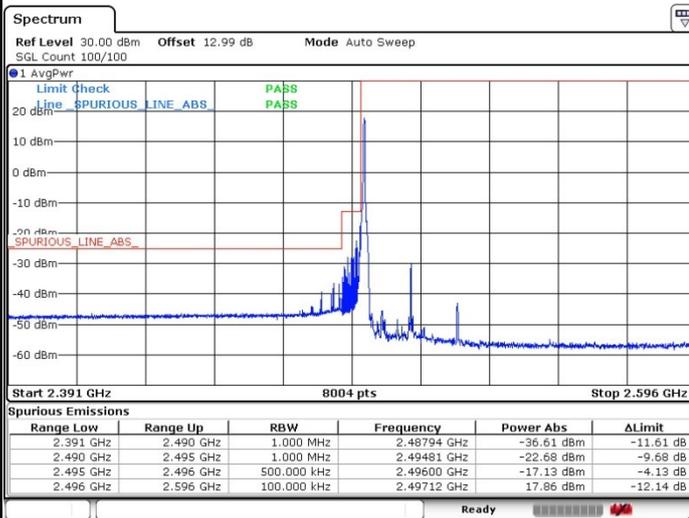


Date: 5 JAN 2021 13:49:20



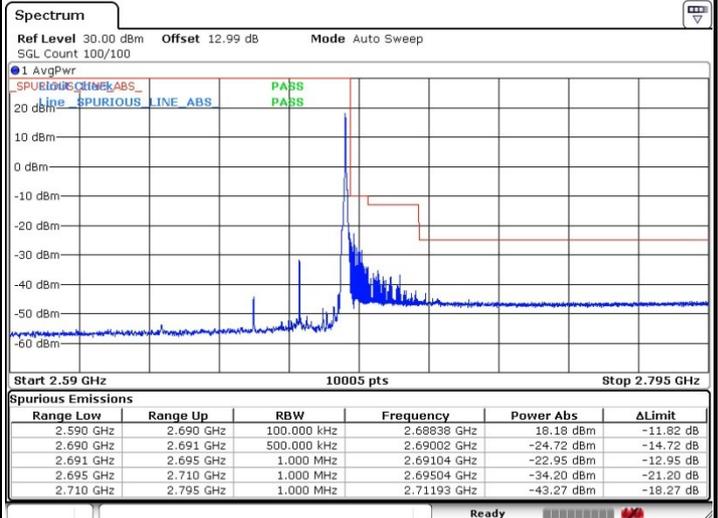
FR1 n41 / 30MHz / DFT-S OFDM / 64Q

Lowest Band Edge / 1RB0



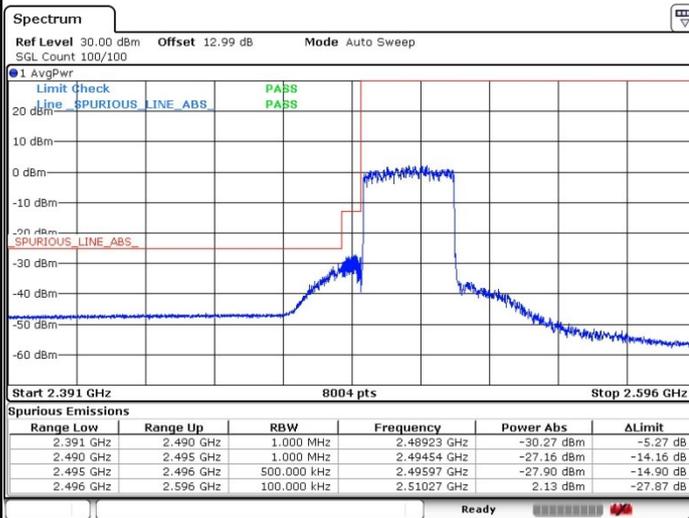
Date: 5 JAN 2021 13:37:26

Highest Band Edge / 1RB24



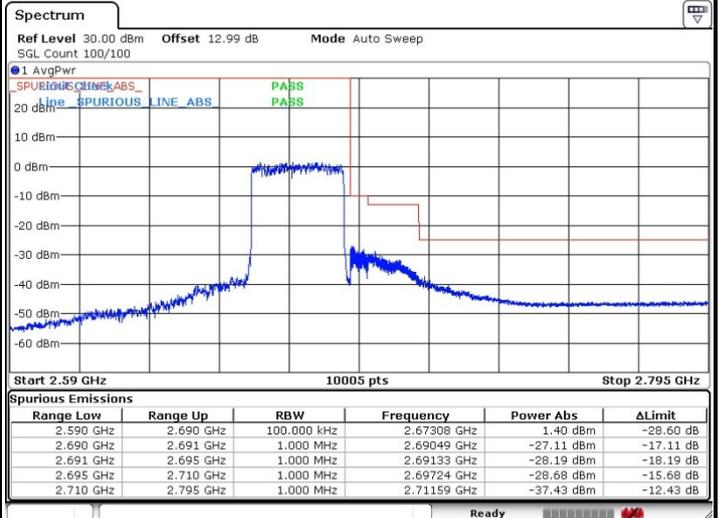
Date: 5 JAN 2021 13:47:41

Lowest Band Edge / Full RB



Date: 5 JAN 2021 13:35:38

Highest Band Edge / Full RB



Date: 5 JAN 2021 13:48:58