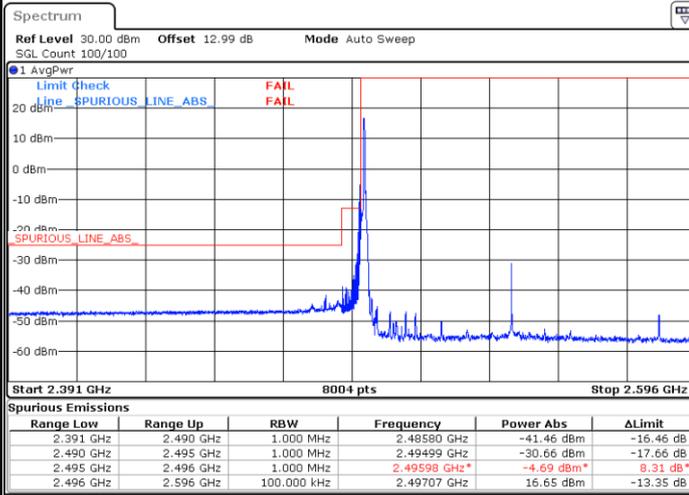




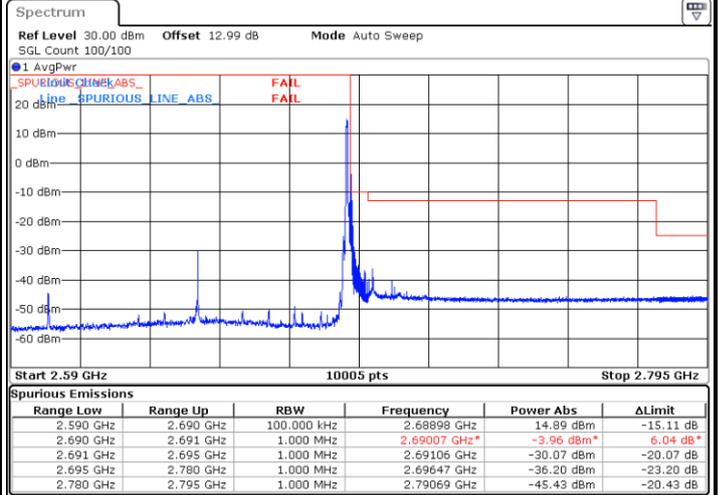
FR1 n41 / 90MHz / DFT-S OFDM / 64Q

Lowest Band Edge / 1RB0



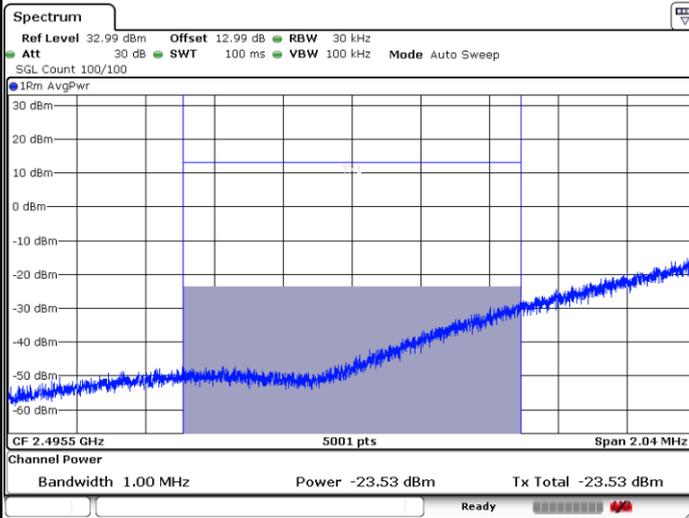
Date: 25 JAN 2021 14:12:28

Highest Band Edge / 1RB24



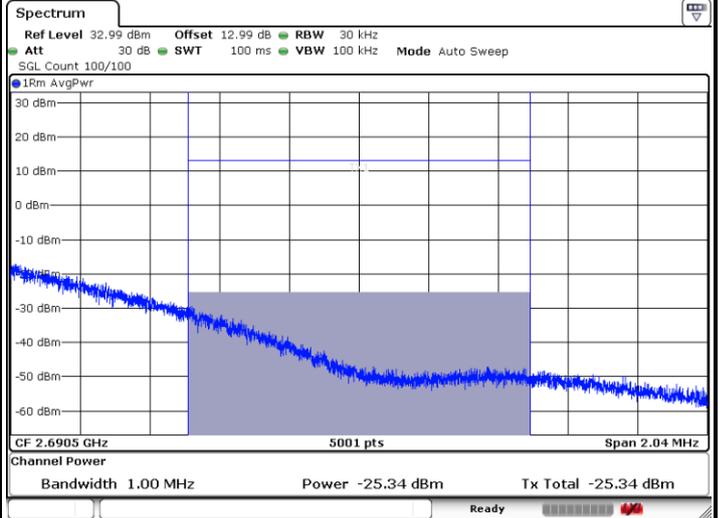
Date: 25 JAN 2021 14:19:04

Channel Power < -13dBm Pass

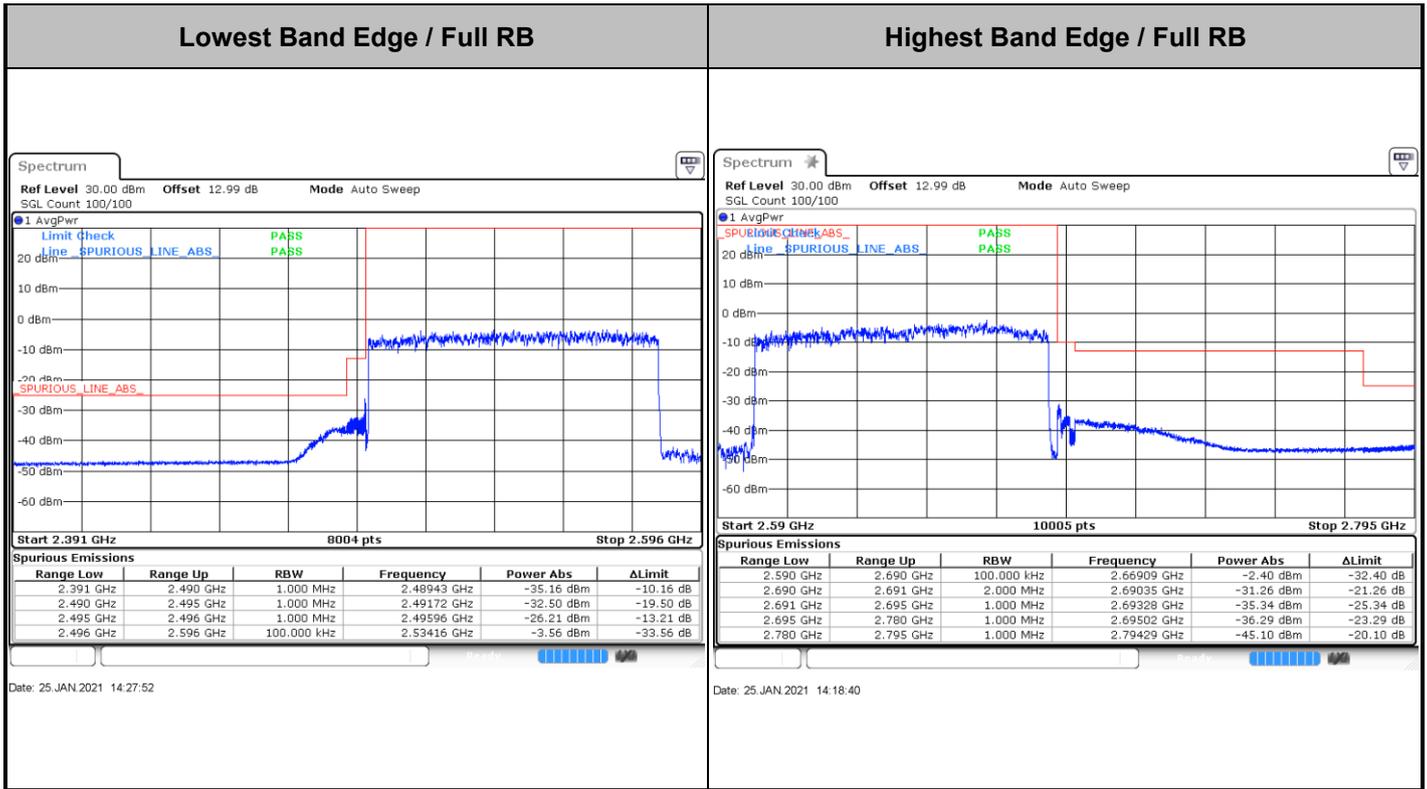


Date: 25 JAN 2021 14:48:41

Channel Power < -10dBm Pass



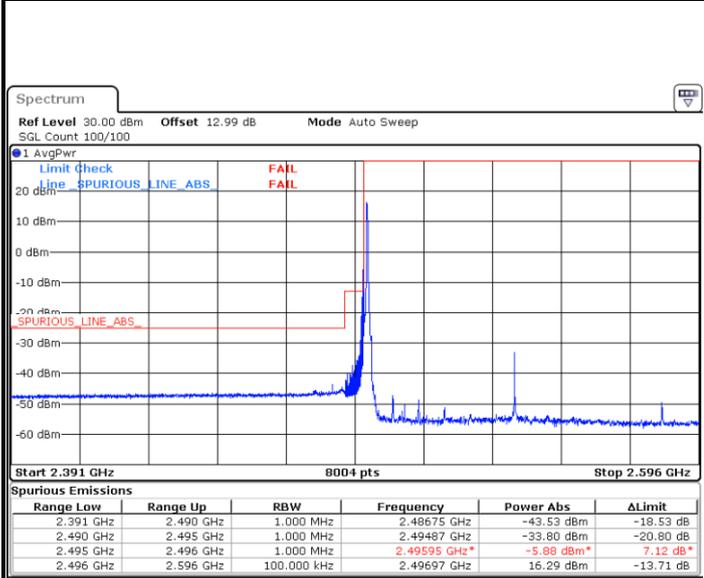
Date: 25 JAN 2021 15:00:52





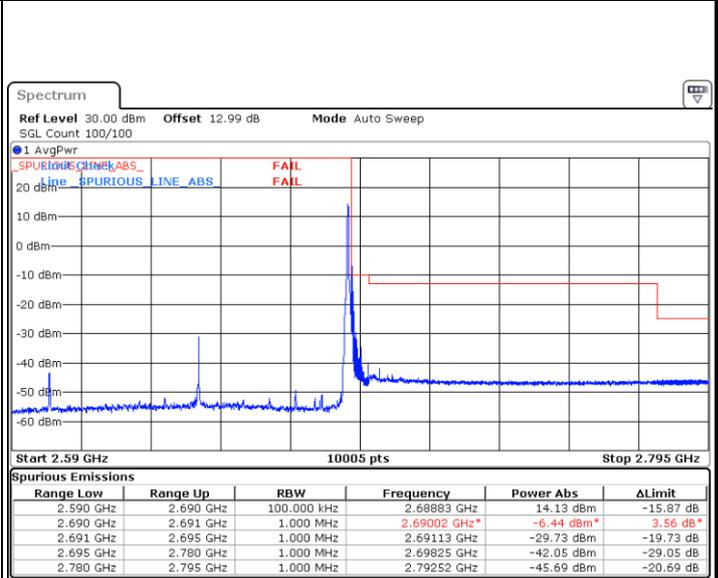
FR1 n41 / 90MHz / DFT-S OFDM / 256Q

Lowest Band Edge / 1RB0



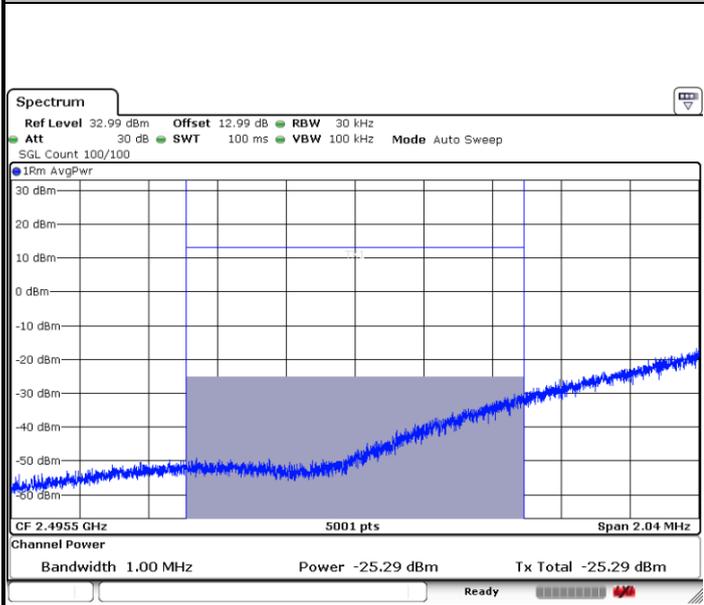
Date: 25 JAN 2021 14:14:00

Highest Band Edge / 1RB24



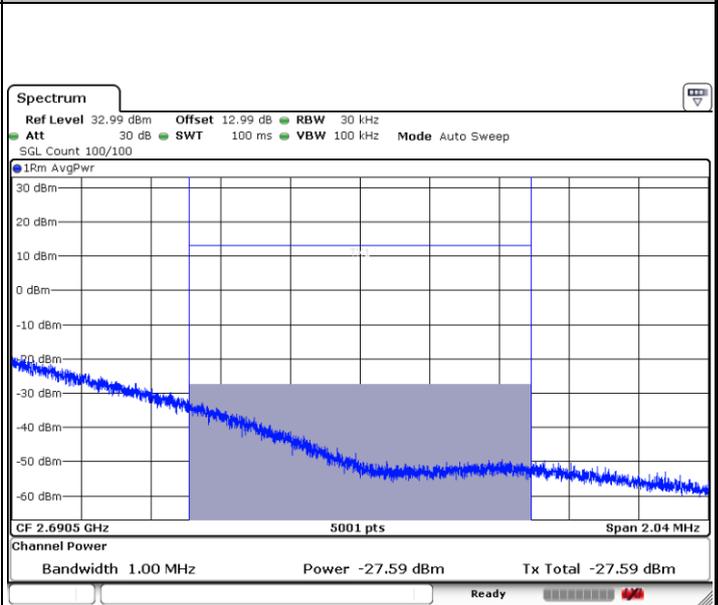
Date: 25 JAN 2021 14:16:15

Channel Power < -13dBm Pass

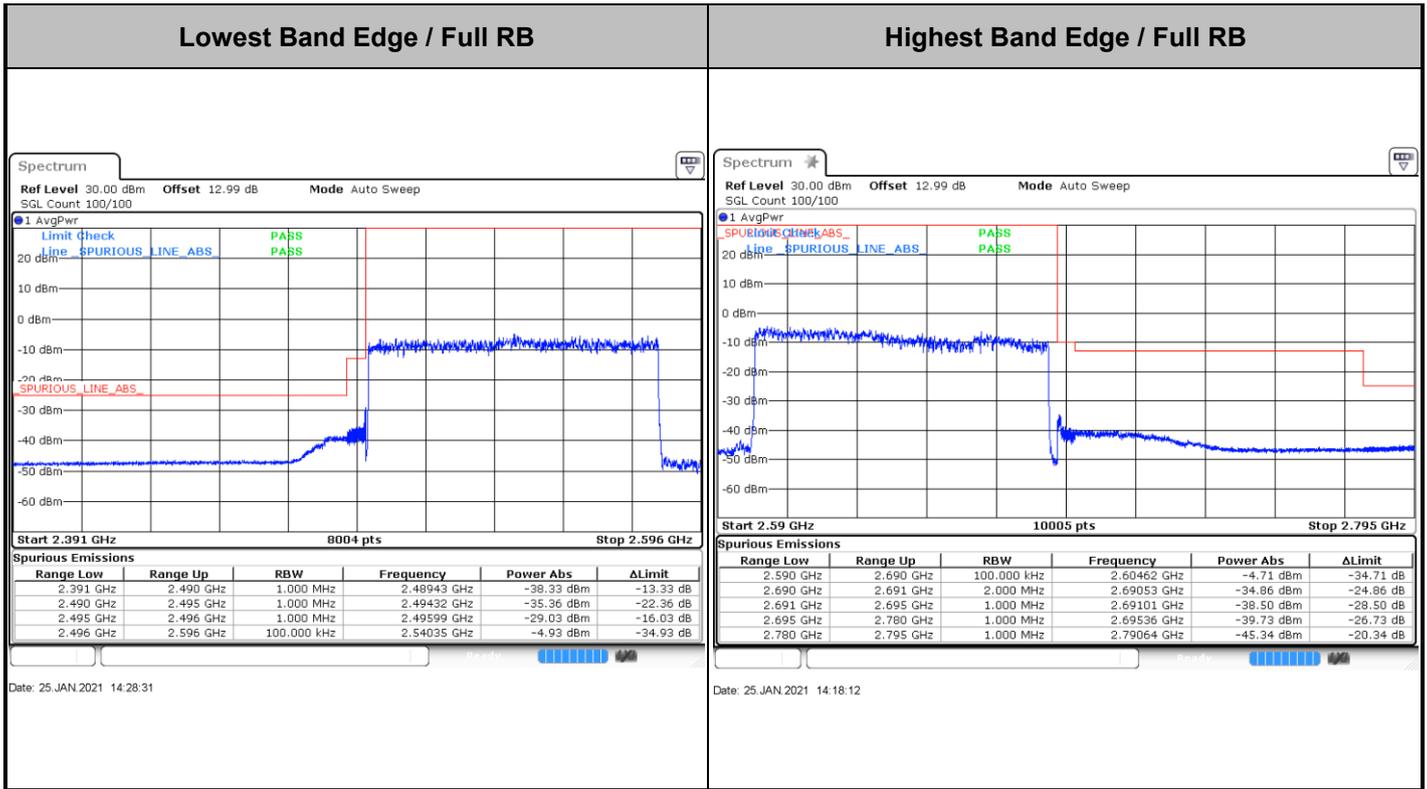


Date: 25 JAN 2021 14:48:16

Channel Power < -10dBm Pass



Date: 25 JAN 2021 15:05:12

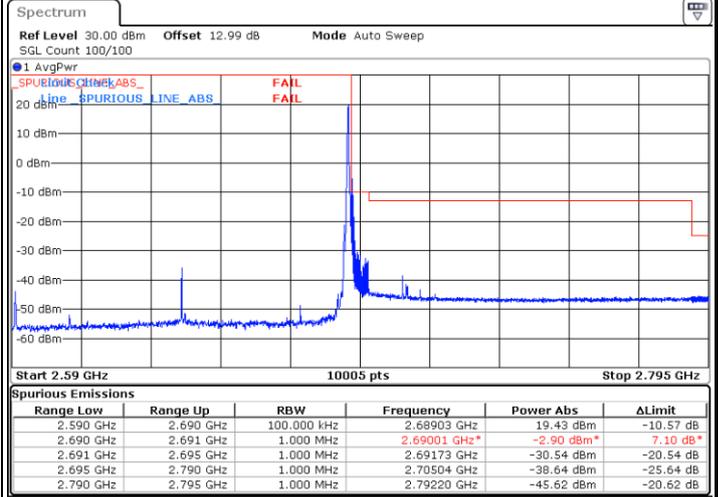
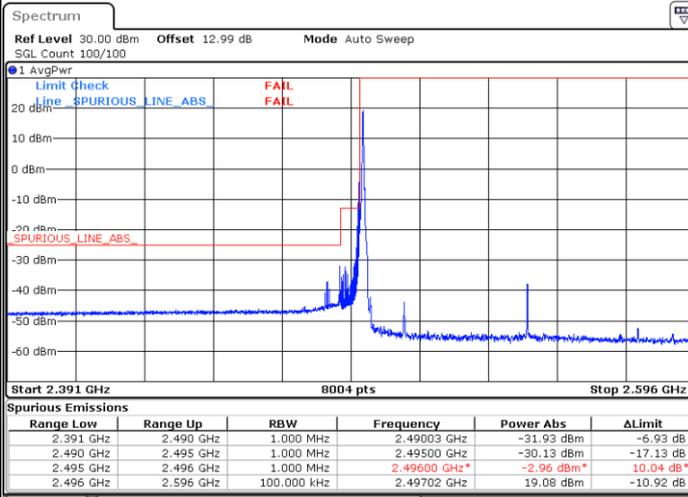




FR1 n41 / 100MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

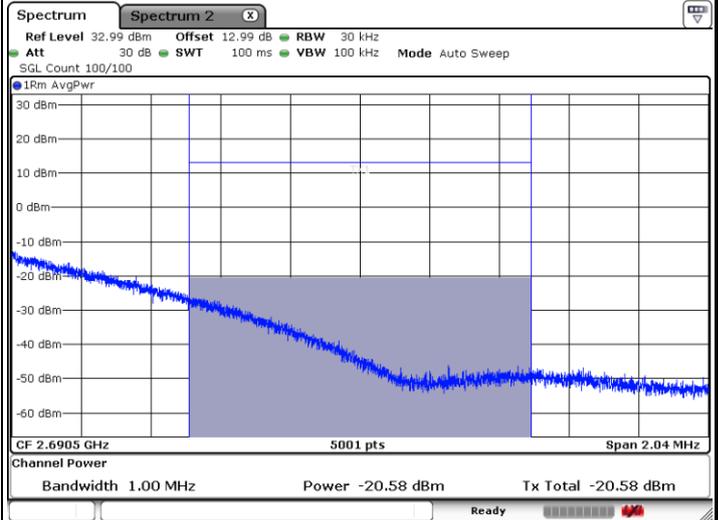
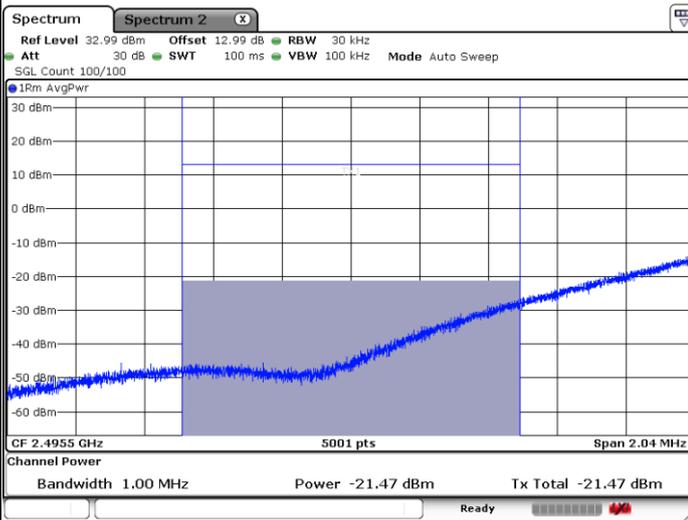


Date: 25 JAN 2021 15:09:33

Date: 25 JAN 2021 15:49:40

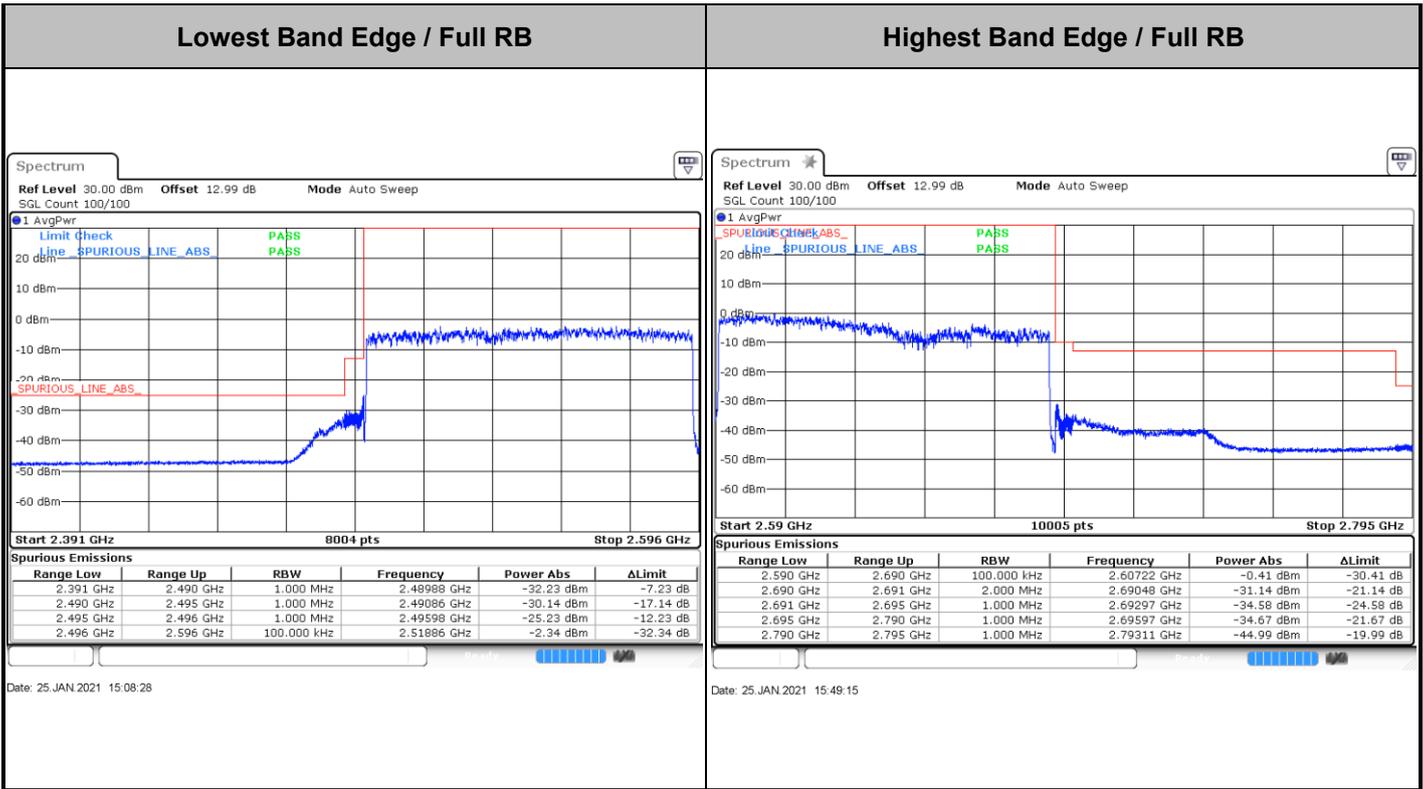
Channel Power < -13dBm Pass

Channel Power < -10dBm Pass



Date: 25 JAN 2021 16:07:00

Date: 25 JAN 2021 16:23:04

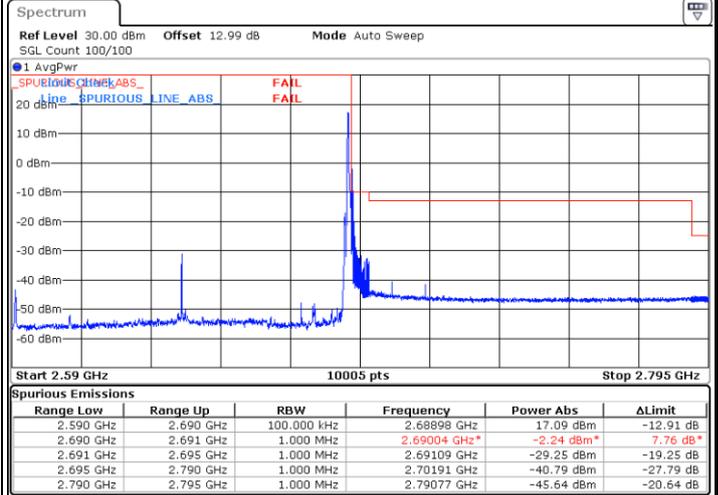
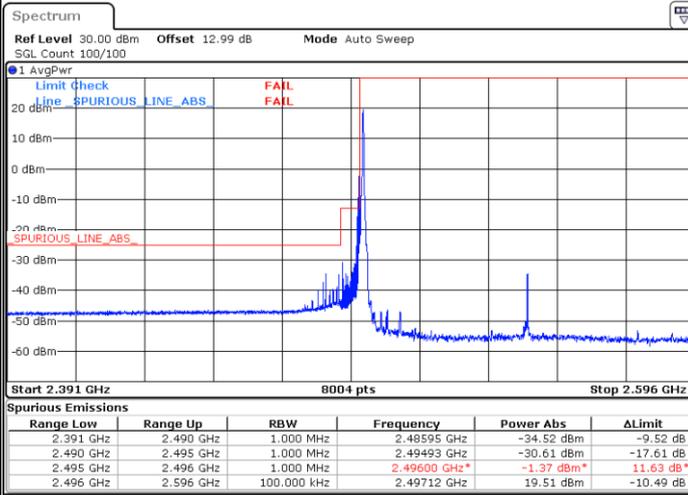




FR1 n41 / 100MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

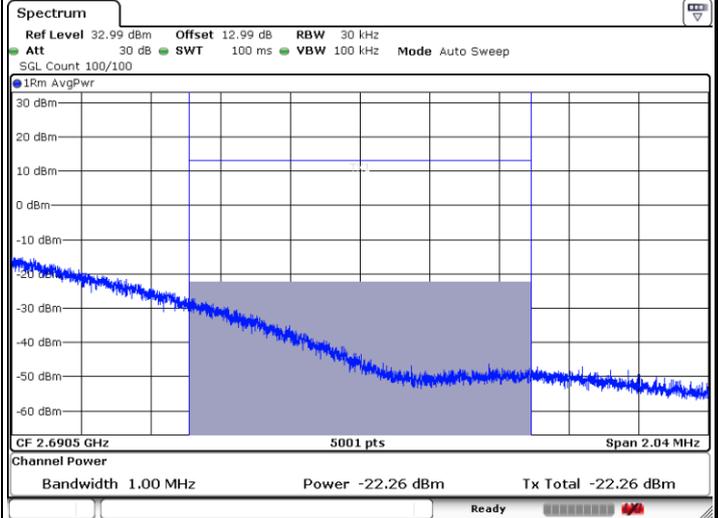
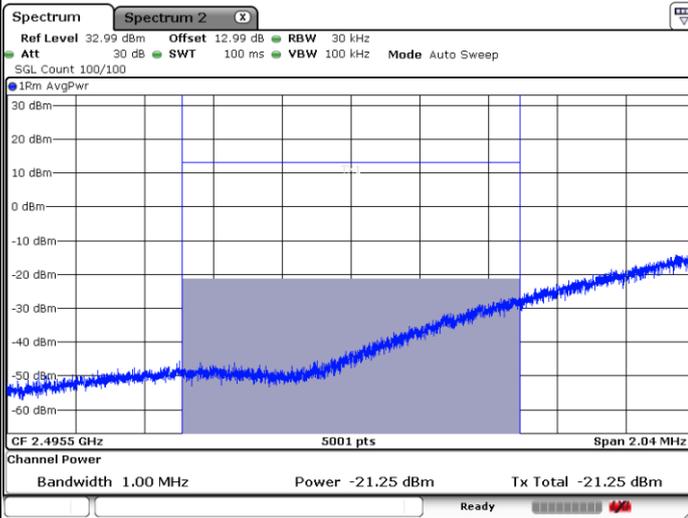


Date: 25 JAN 2021 15:26:52

Date: 25 JAN 2021 15:50:51

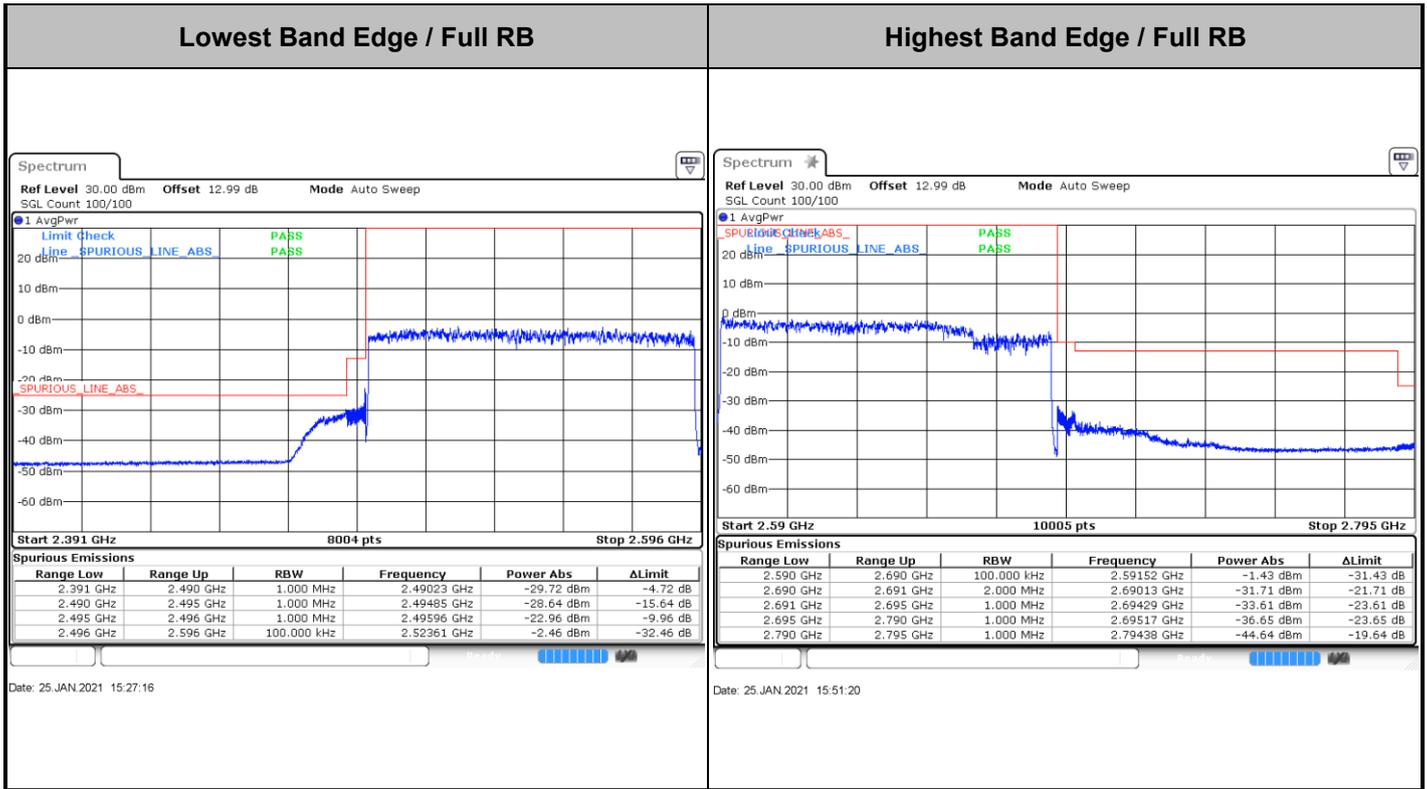
Channel Power < -13dBm Pass

Channel Power < -10dBm Pass



Date: 25 JAN 2021 16:07:37

Date: 25 JAN 2021 15:58:12

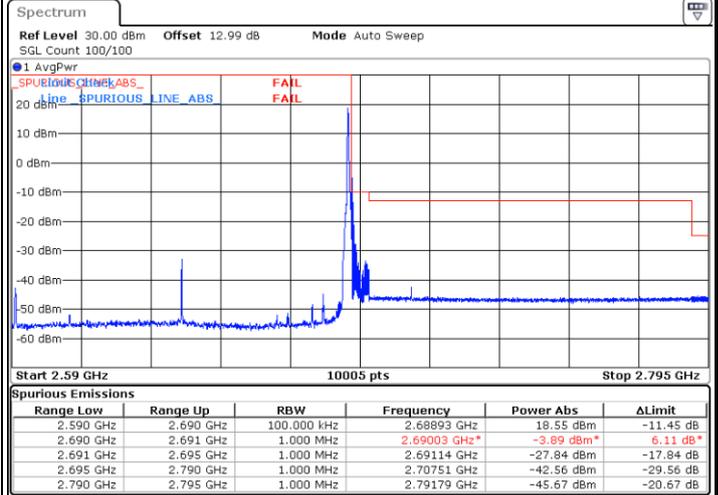
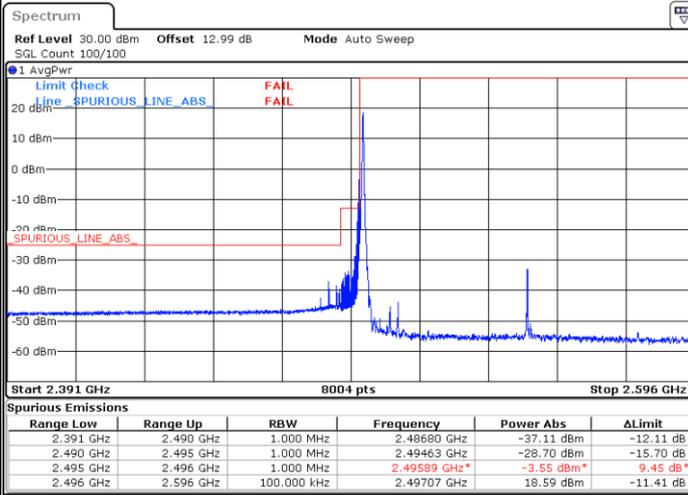




FR1 n41 / 100MHz / DFT-S OFDM / 16Q

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

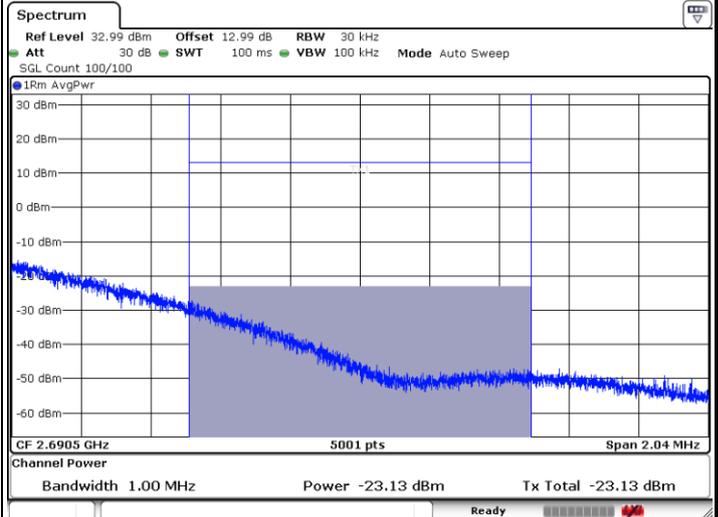
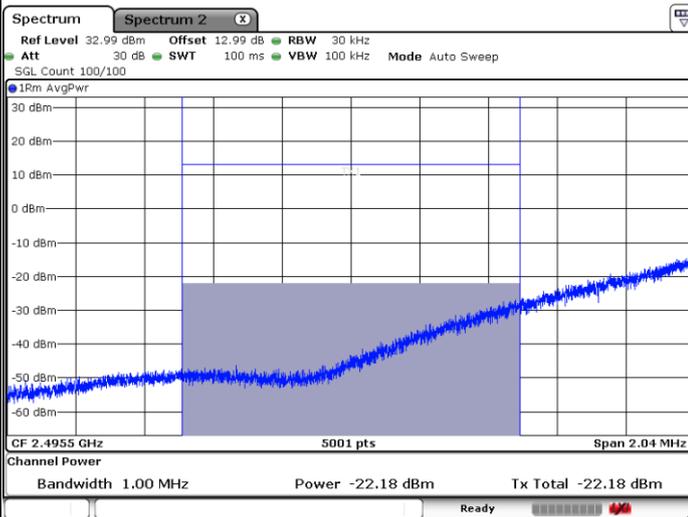


Date: 25 JAN 2021 15:28:39

Date: 25 JAN 2021 15:52:17

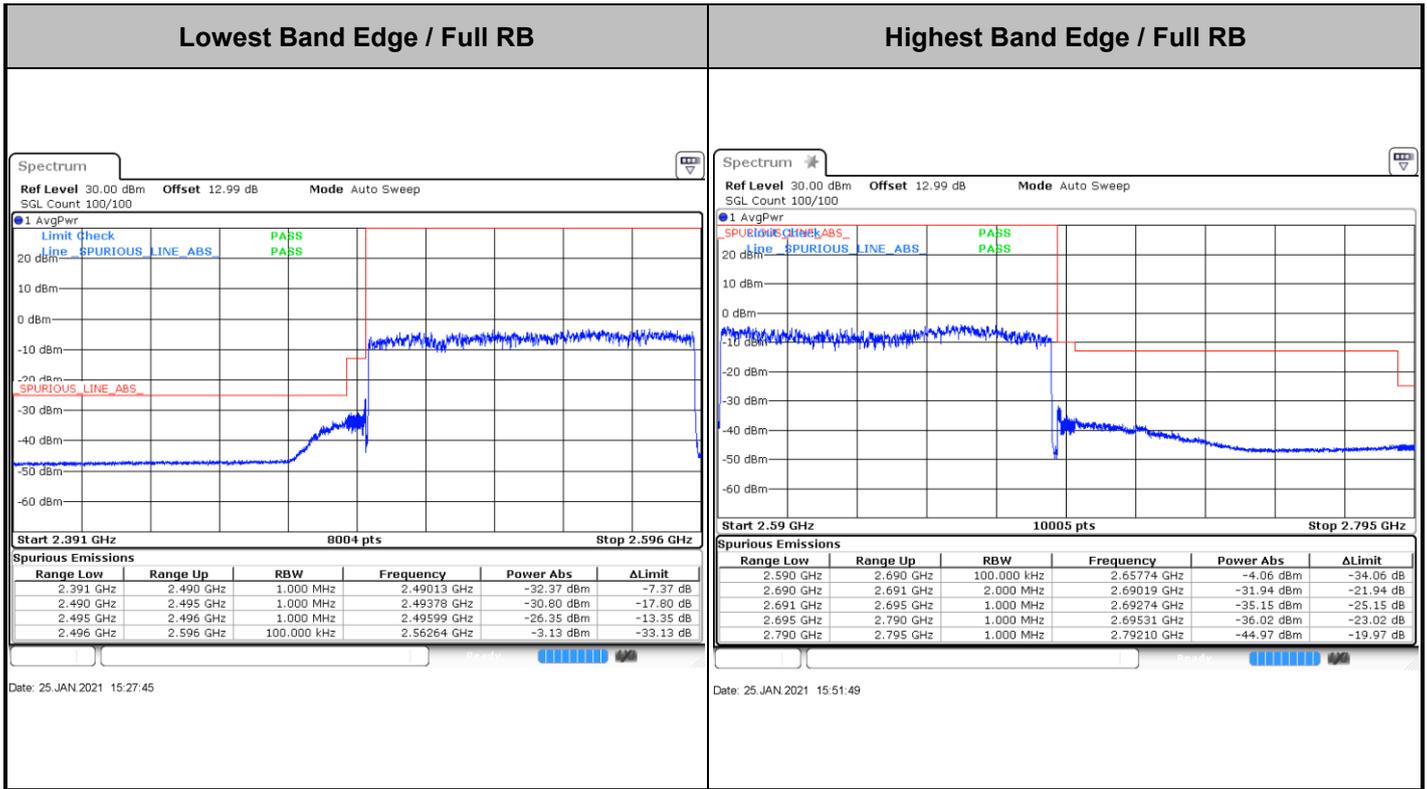
Channel Power < -13dBm Pass

Channel Power < -10dBm Pass



Date: 25 JAN 2021 16:08:00

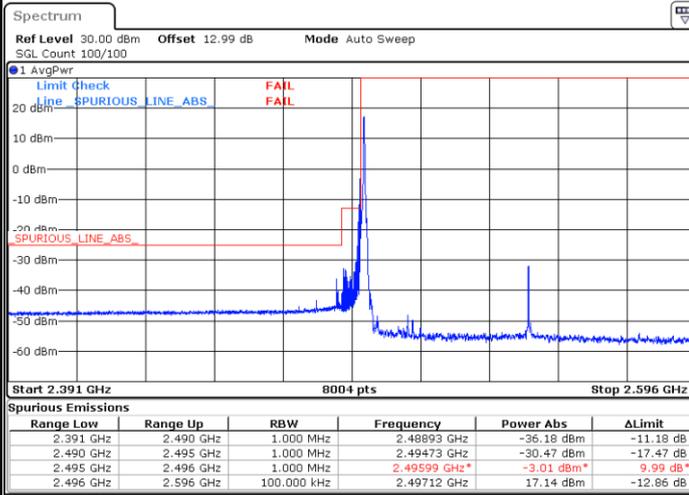
Date: 25 JAN 2021 15:57:50





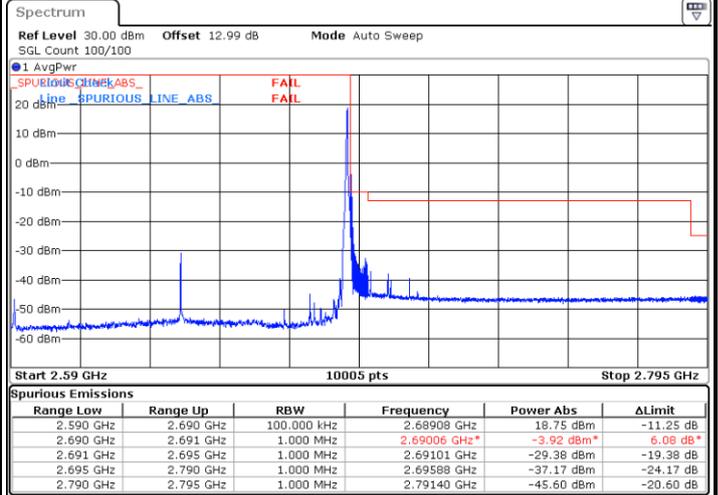
FR1 n41 / 100MHz / DFT-S OFDM / 64Q

Lowest Band Edge / 1RB0



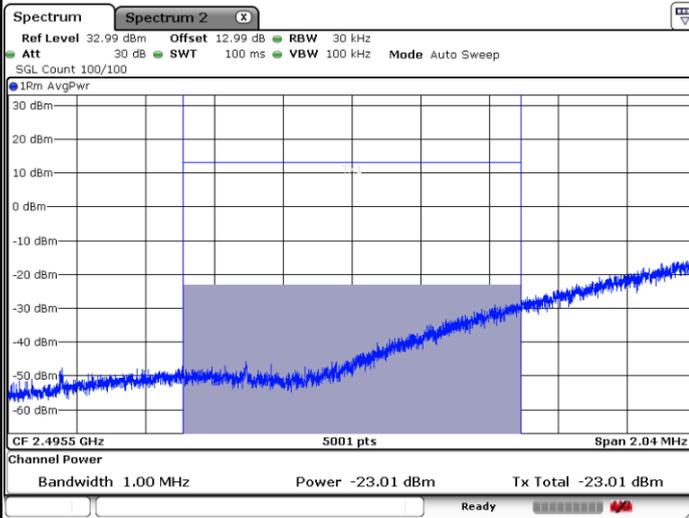
Date: 25 JAN 2021 15:29:15

Highest Band Edge / 1RB24



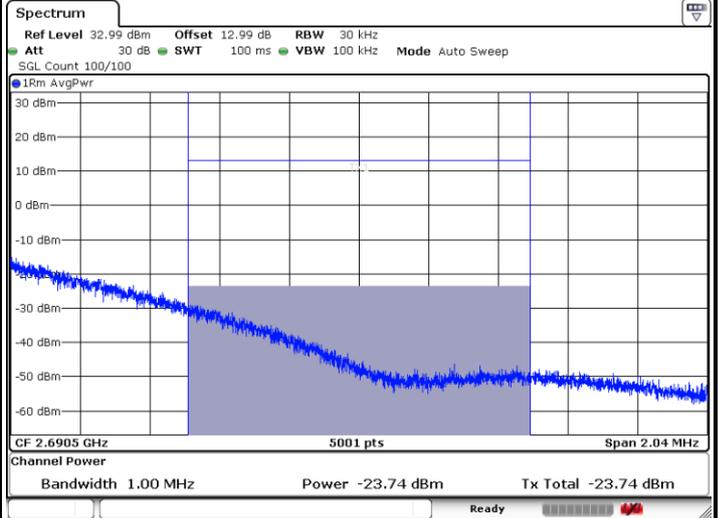
Date: 25 JAN 2021 15:52:49

Channel Power < -13dBm Pass

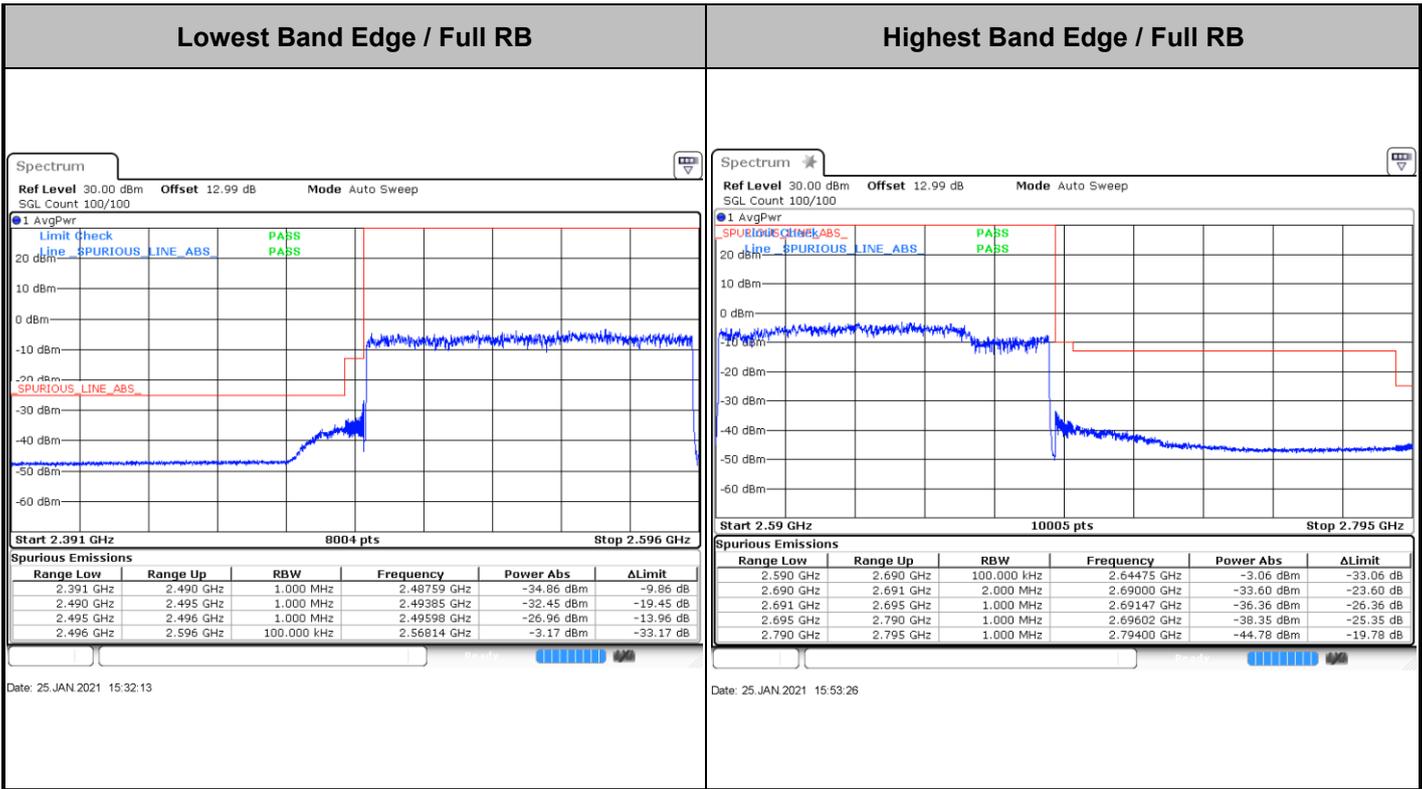


Date: 25 JAN 2021 16:08:44

Channel Power < -10dBm Pass



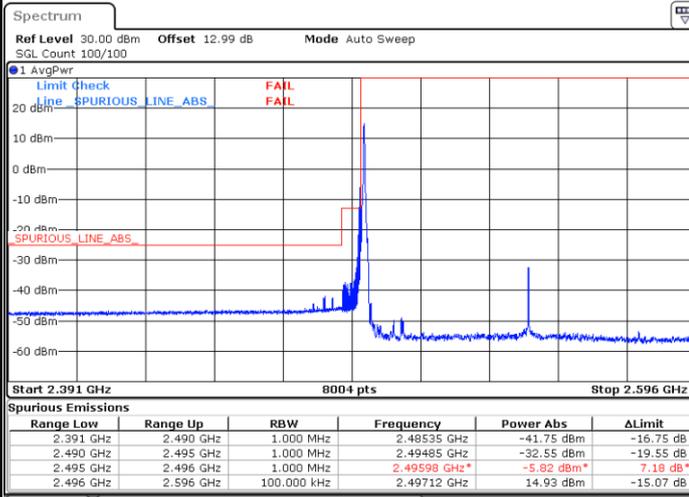
Date: 25 JAN 2021 15:57:30





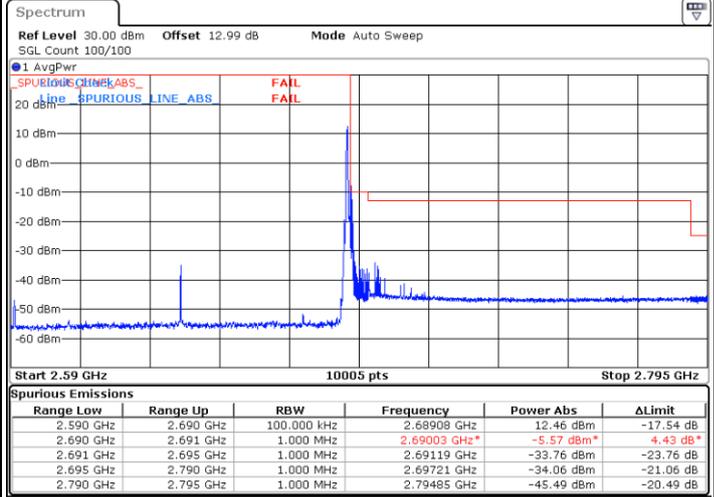
FR1 n41 / 100MHz / DFT-S OFDM / 256Q

Lowest Band Edge / 1RB0



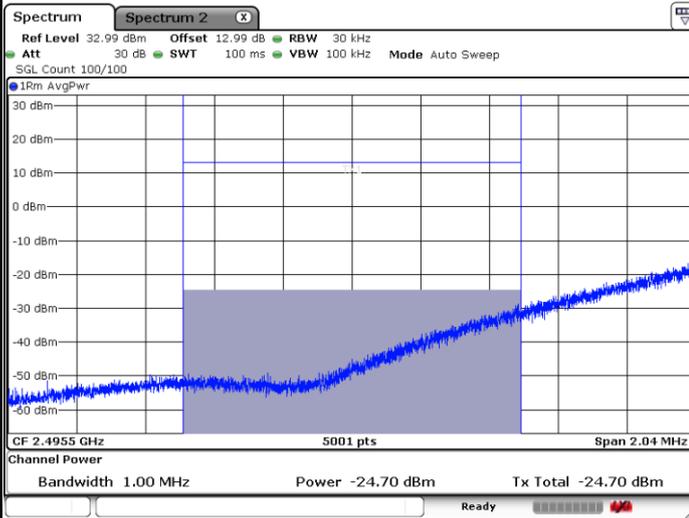
Date: 25 JAN 2021 15:38:07

Highest Band Edge / 1RB24



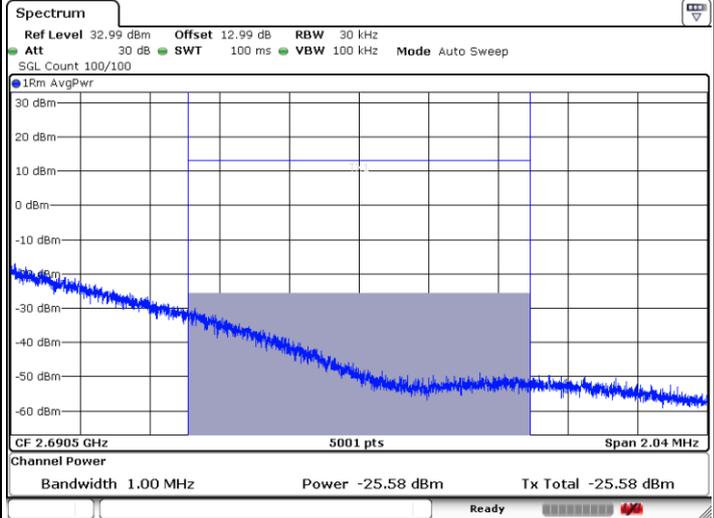
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Channel Power < -13dBm Pass

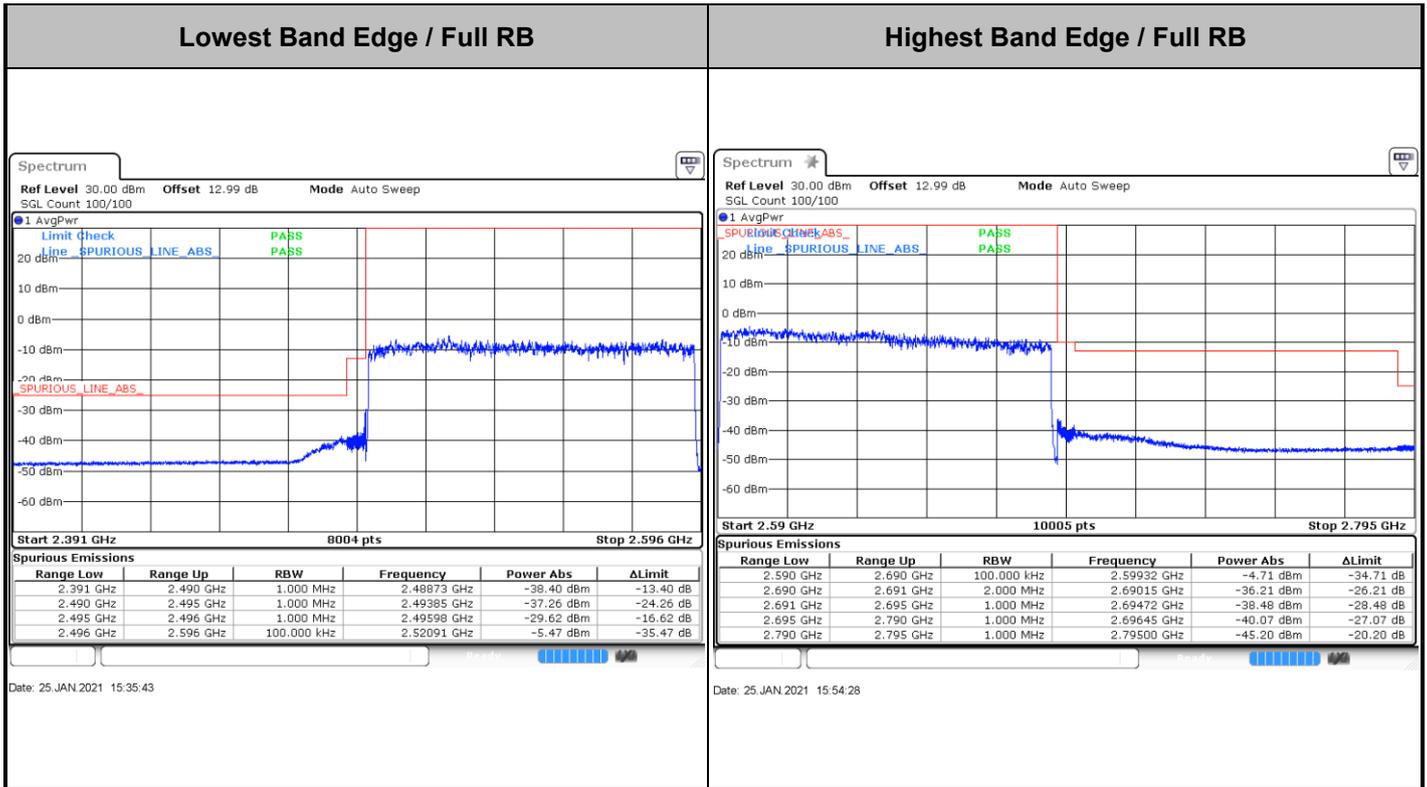


Date: 25 JAN 2021 16:20:59

Channel Power < -10dBm Pass



Date: 25 JAN 2021 15:57:07



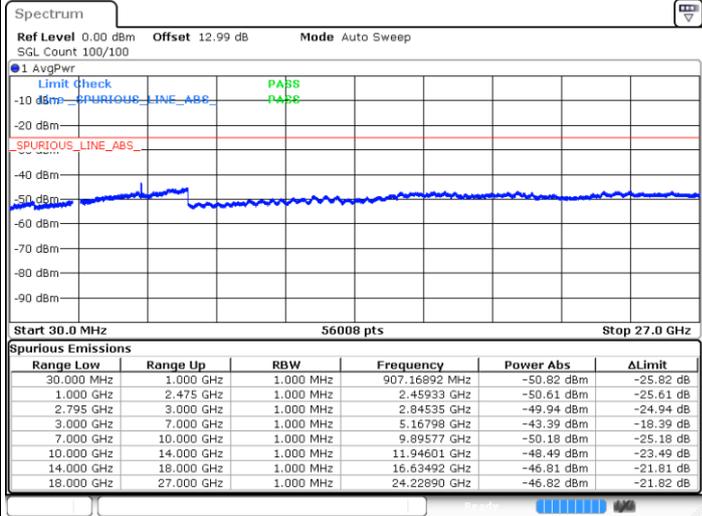
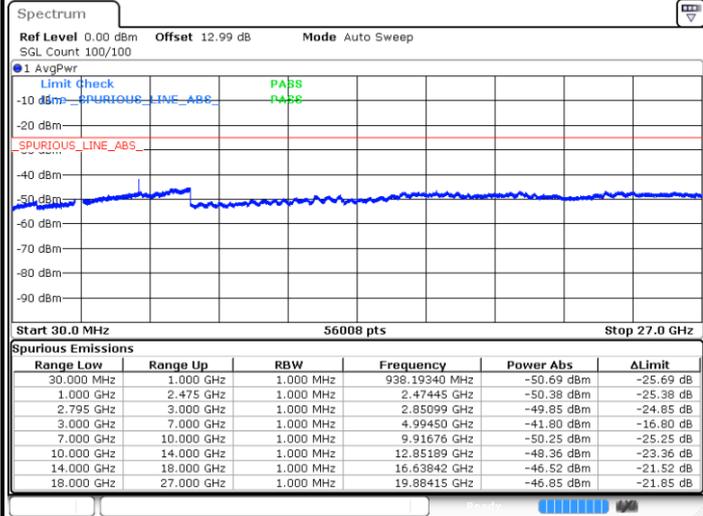


Conducted Spurious Emission

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

Lowest Channel / 1RB1

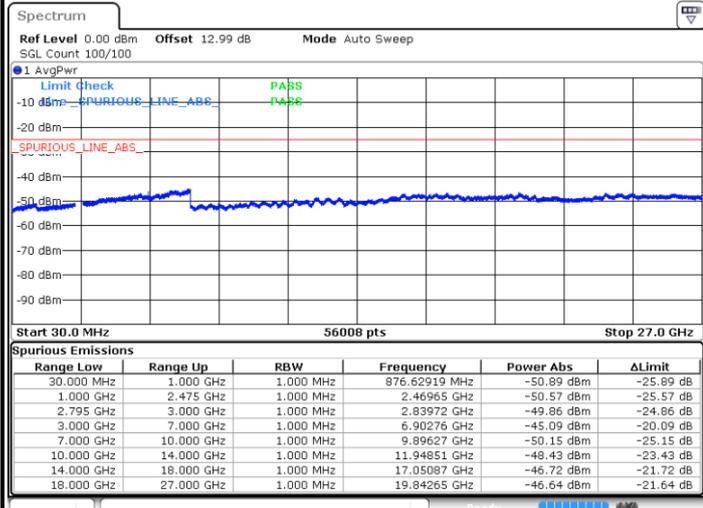
Middle Channel / 1RB1



Date: 22 JAN 2021 14:20:39

Date: 22 JAN 2021 14:24:52

Highest Channel / 1RB1



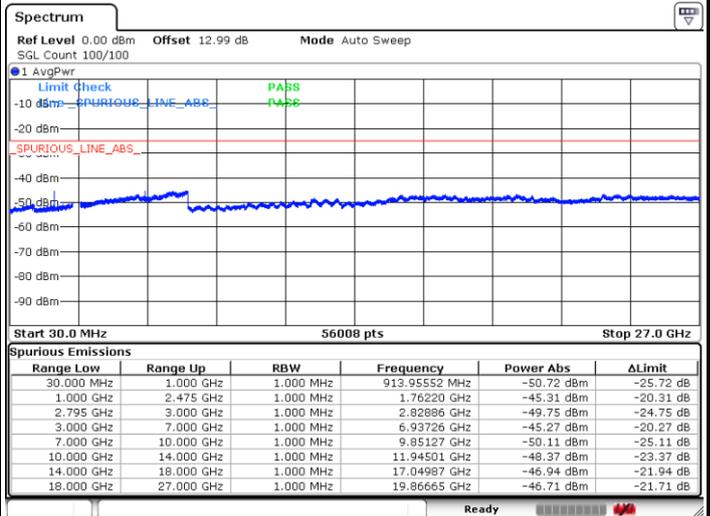
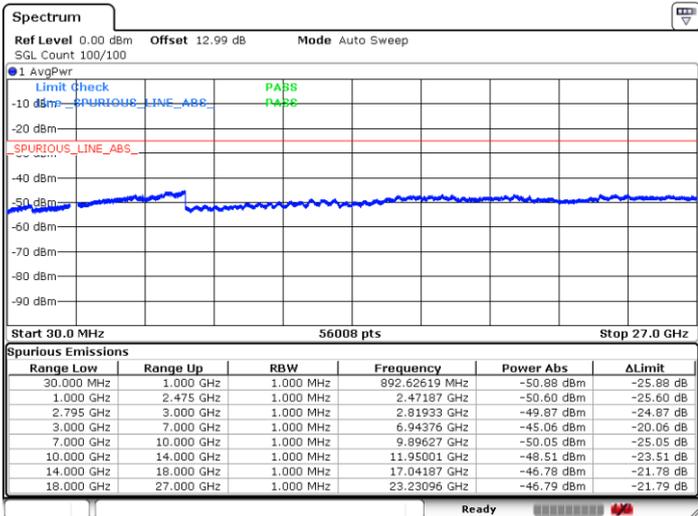
Date: 22 JAN 2021 15:02:20



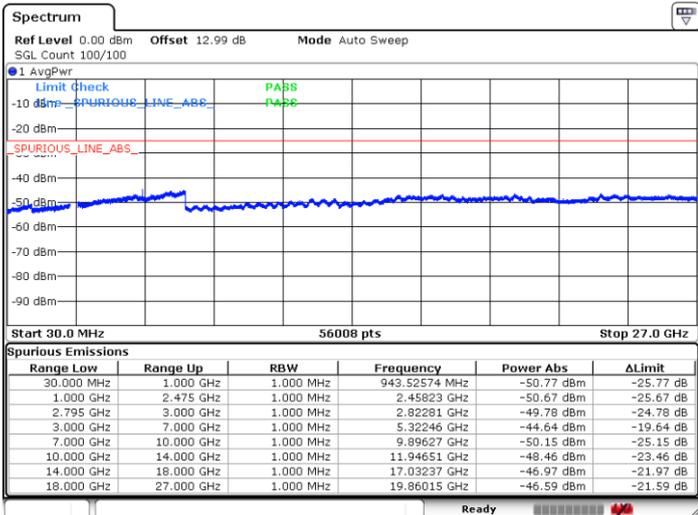
FR1 n41 / 30MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1



Highest Channel / 1RB1

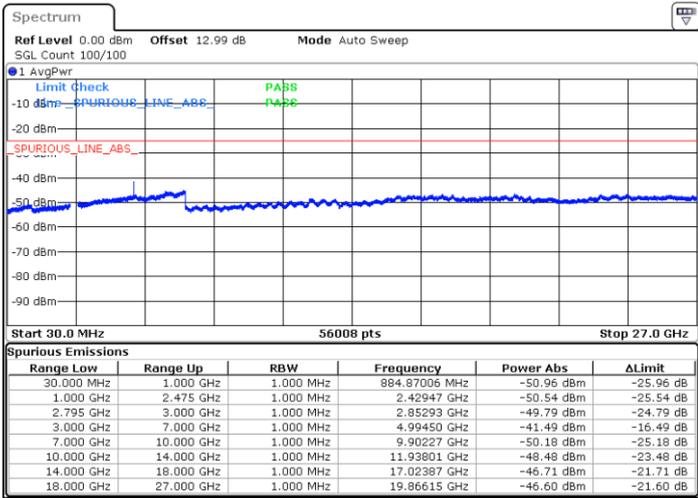




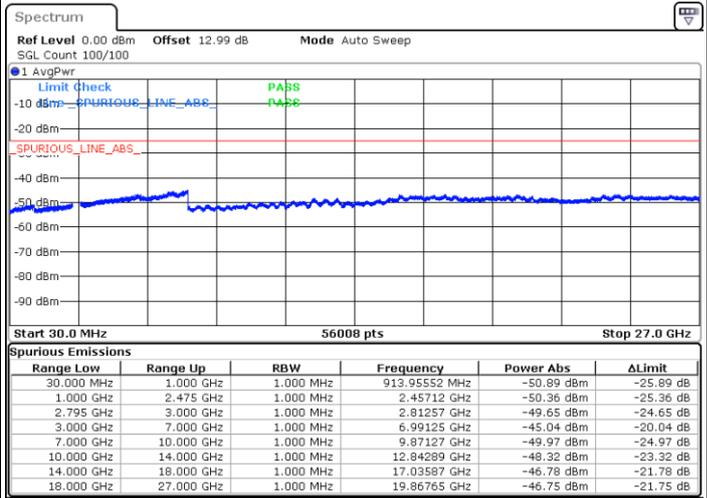
FR1 n41 / 40MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

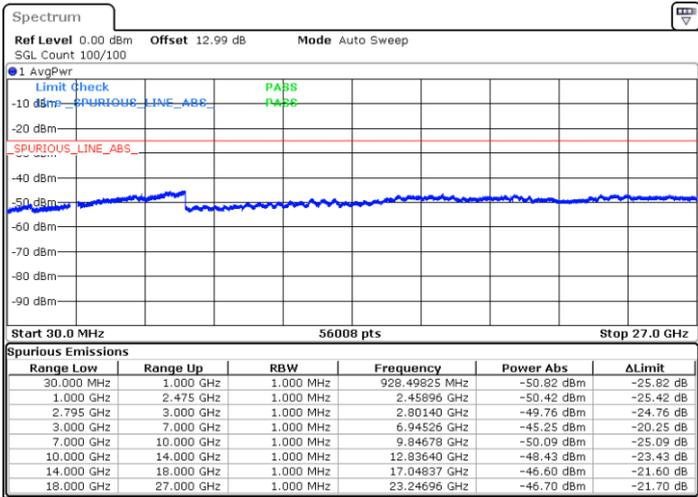


Date: 22 JAN 2021 15:43:20



Date: 22 JAN 2021 16:00:00

Highest Channel / 1RB1



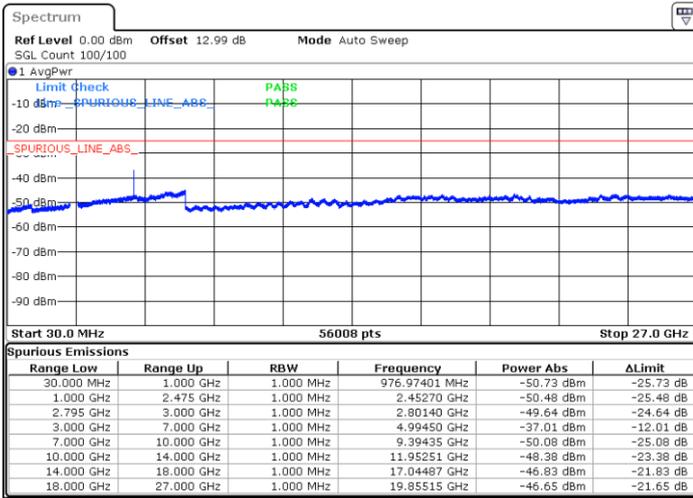
Date: 22 JAN 2021 16:01:47



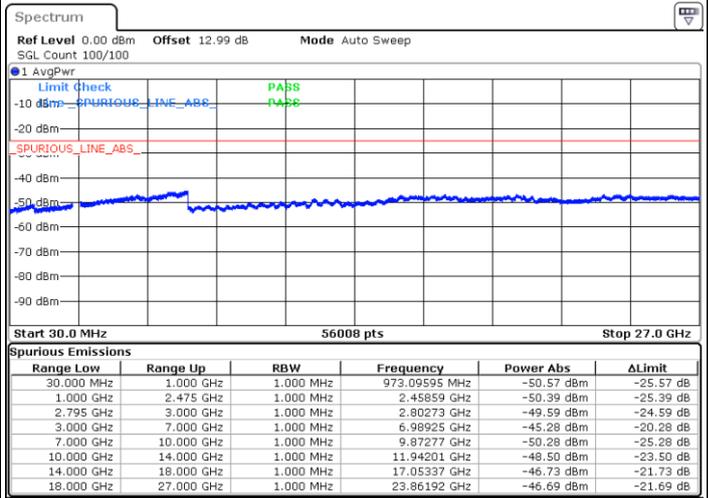
FR1 n41 / 50MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

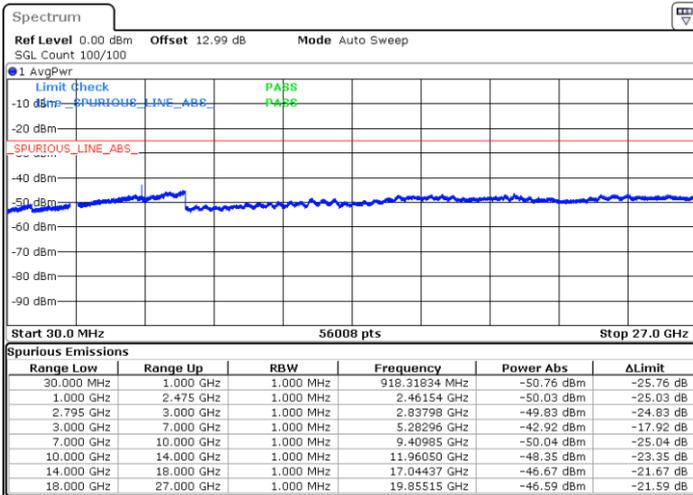


Date: 25 JAN 2021 11:13:23



Date: 25 JAN 2021 11:22:24

Highest Channel / 1RB1



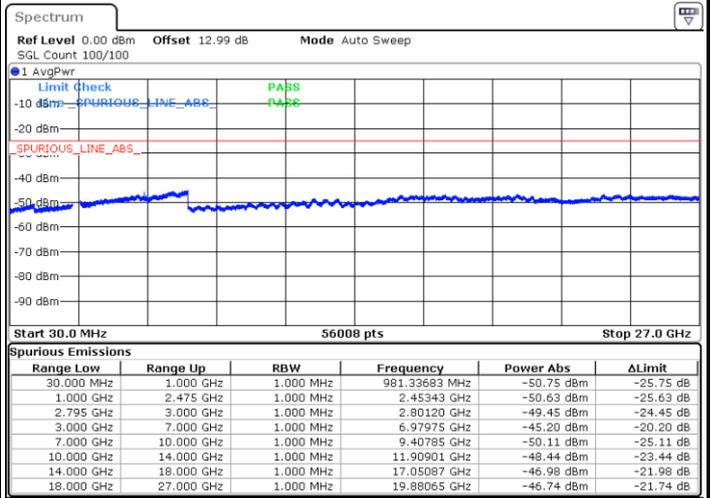
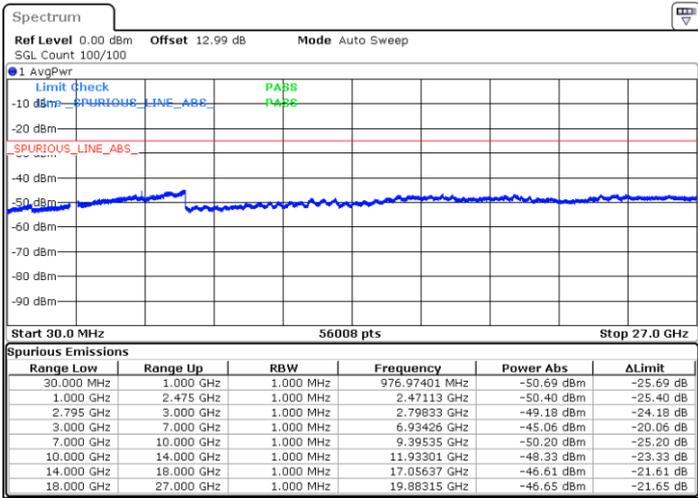
Date: 25 JAN 2021 11:19:22



FR1 n41 / 60MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

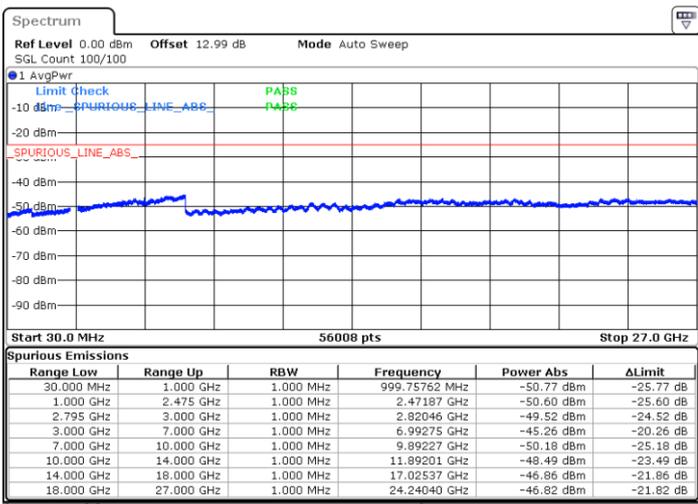
Middle Channel / 1RB1



Date: 25 JAN 2021 11:51:17

Date: 25 JAN 2021 11:52:55

Highest Channel / 1RB1



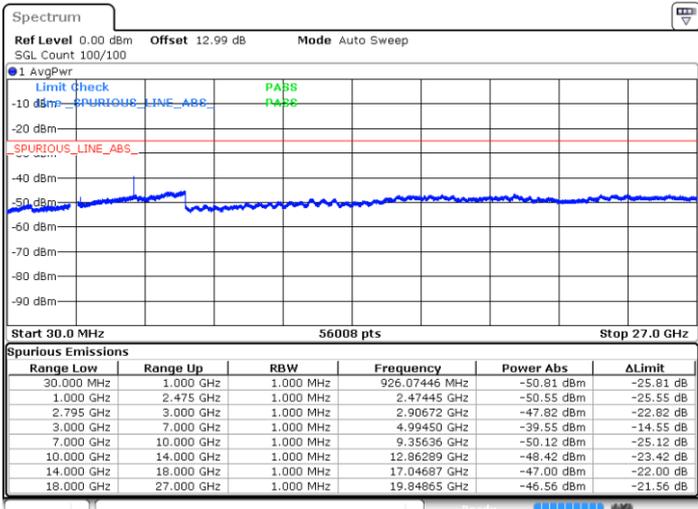
Date: 25 JAN 2021 11:48:27



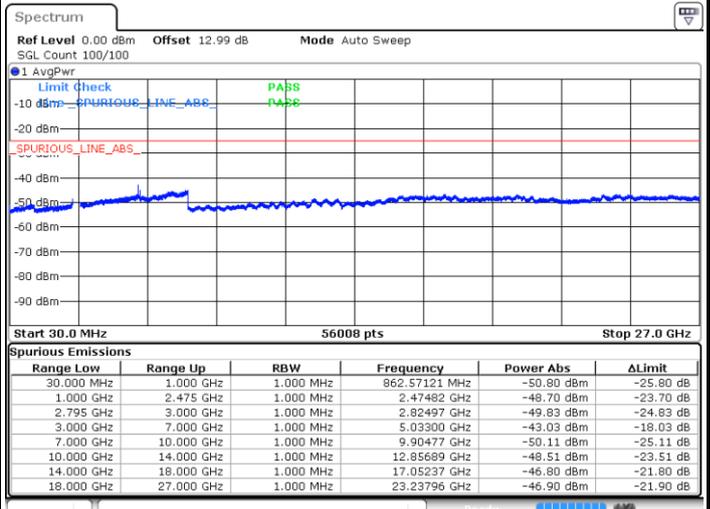
FR1 n41 / 80MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

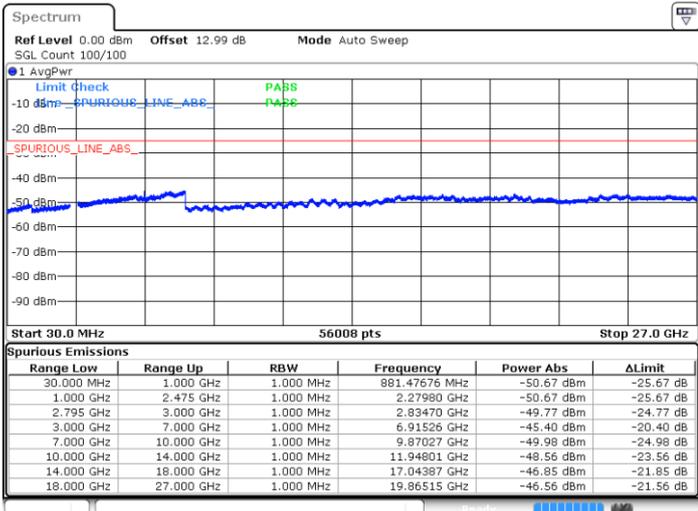


Date: 25 JAN 2021 13:37:09



Date: 25 JAN 2021 13:53:22

Highest Channel / 1RB1



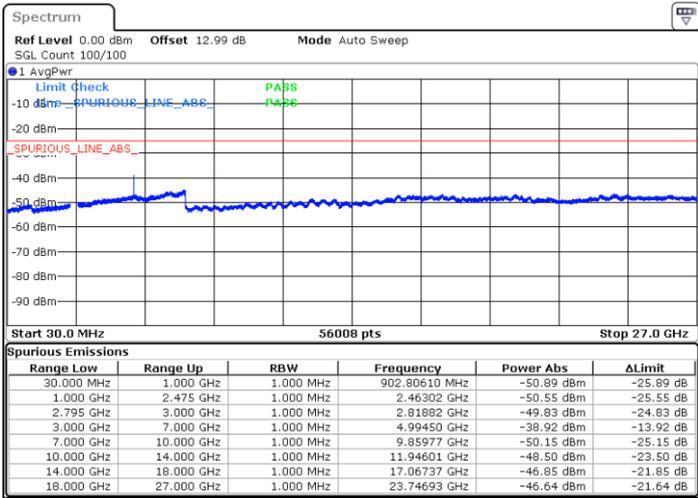
Date: 25 JAN 2021 13:40:21



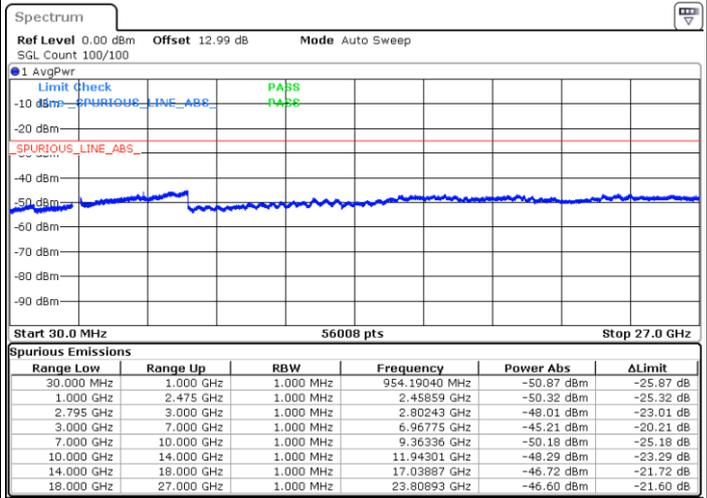
FR1 n41 / 90MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

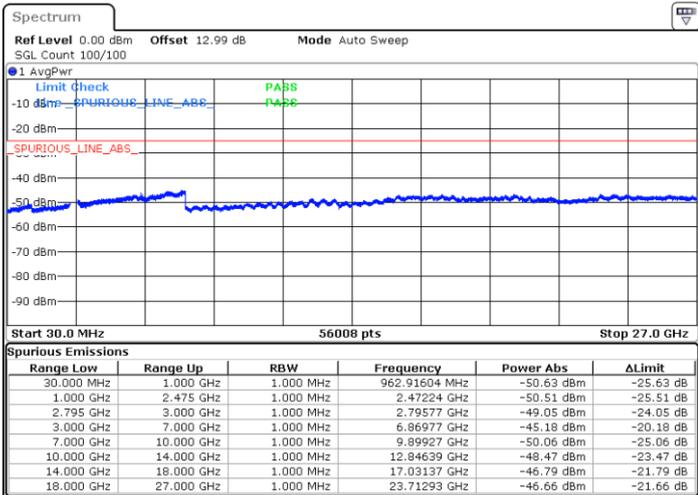


Date: 25 JAN 2021 14:13:22



Date: 25 JAN 2021 14:25:38

Highest Channel / 1RB1



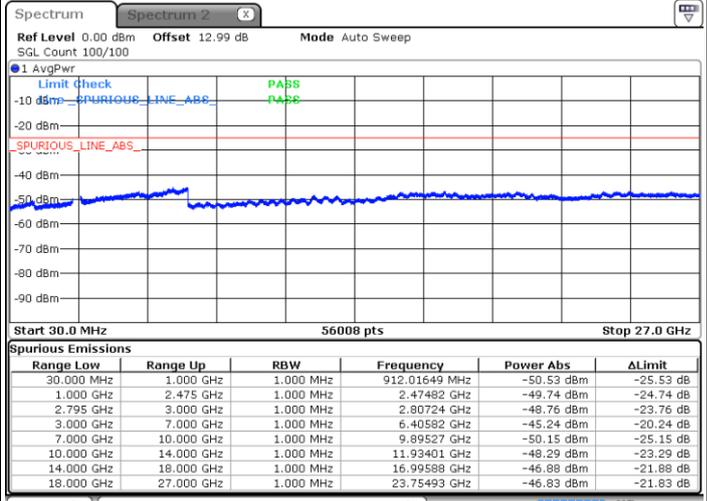
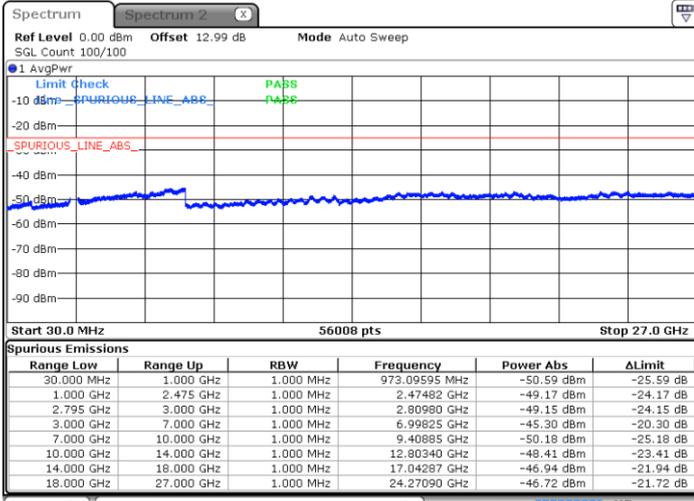
Date: 25 JAN 2021 14:23:15



FR1 n41 / 100MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

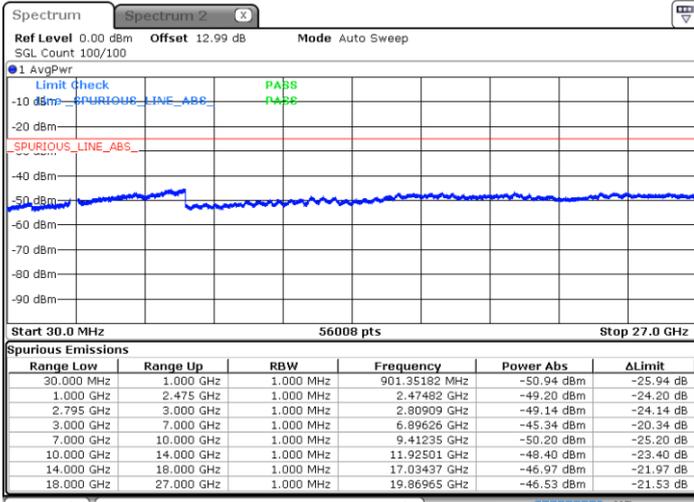
Middle Channel / 1RB1



Date: 25 JAN 2021 16:28:18

Date: 25 JAN 2021 16:27:55

Highest Channel / 1RB1



Date: 25 JAN 2021 16:28:53



Frequency Stability

Test Conditions		FR1 n41 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 100MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0019	PASS
40	Normal Voltage	0.0013	
30	Normal Voltage	0.0004	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0017	
0	Normal Voltage	0.0026	
-10	Normal Voltage	0.0004	
-20	Normal Voltage	0.0019	
-30	Normal Voltage	0.0021	
20	Maximum Voltage	0.0003	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0022	

Note:

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

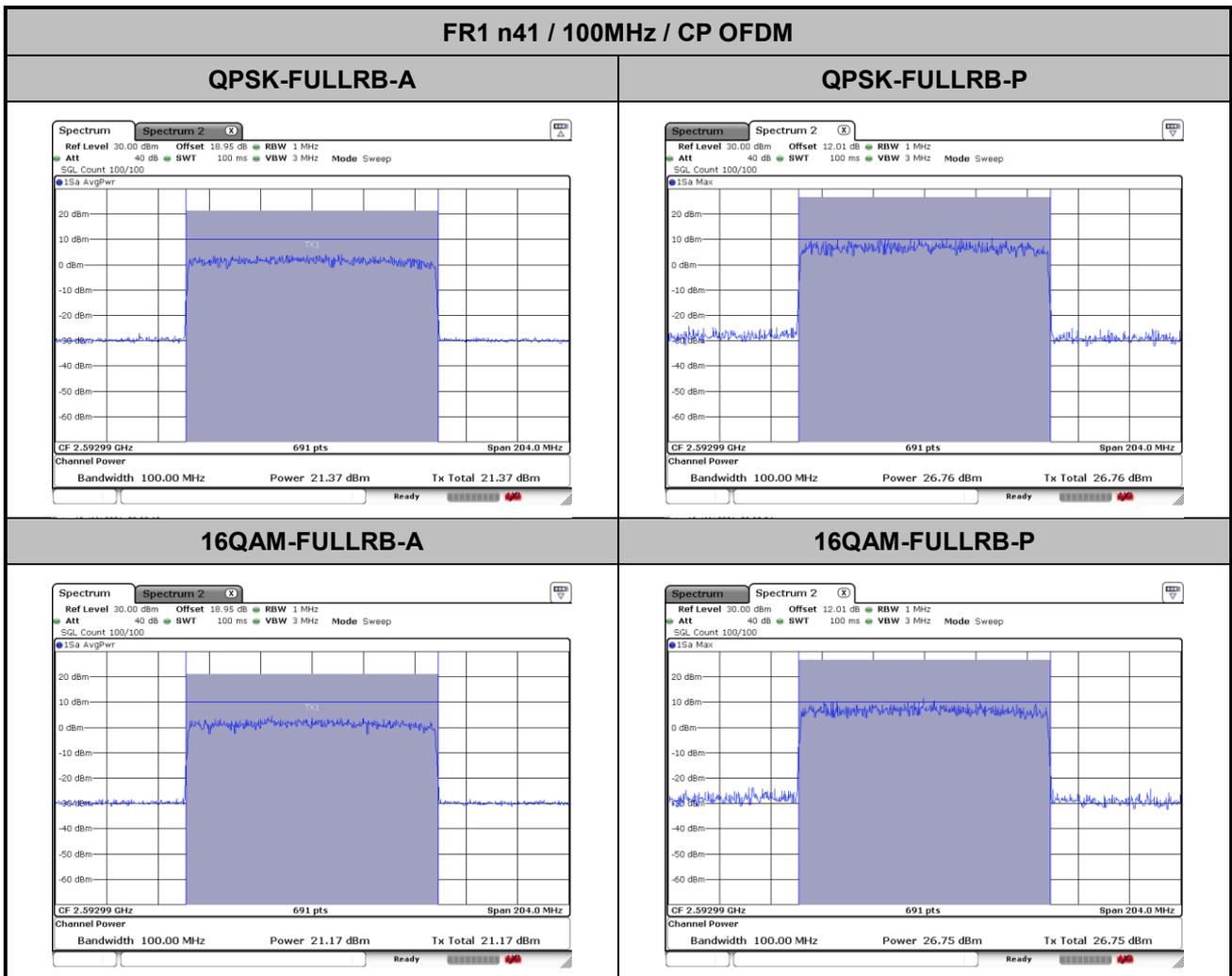


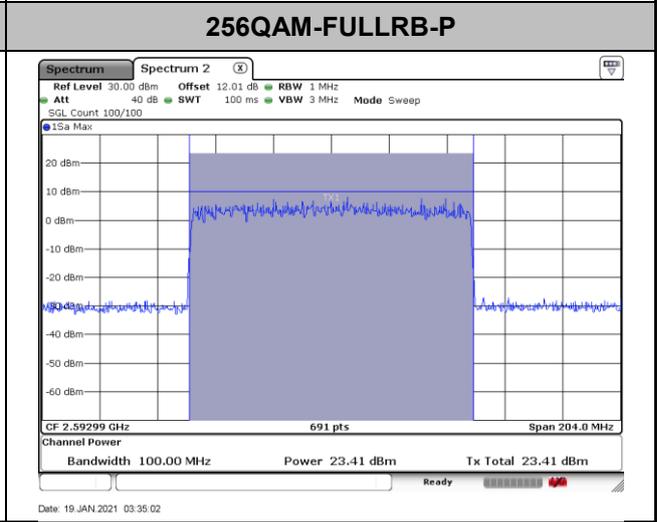
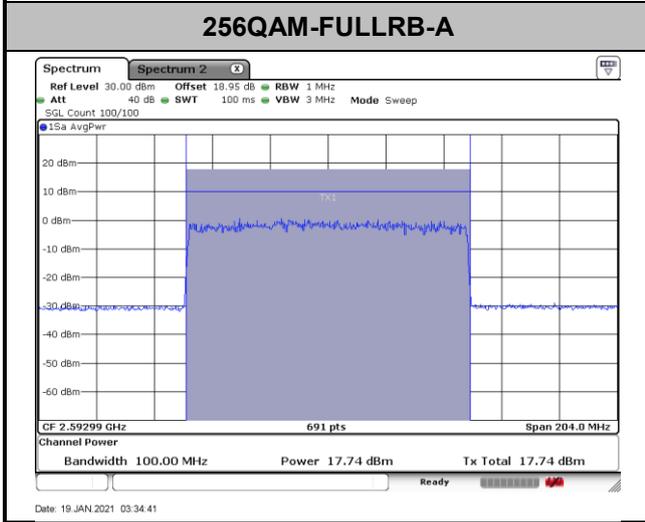
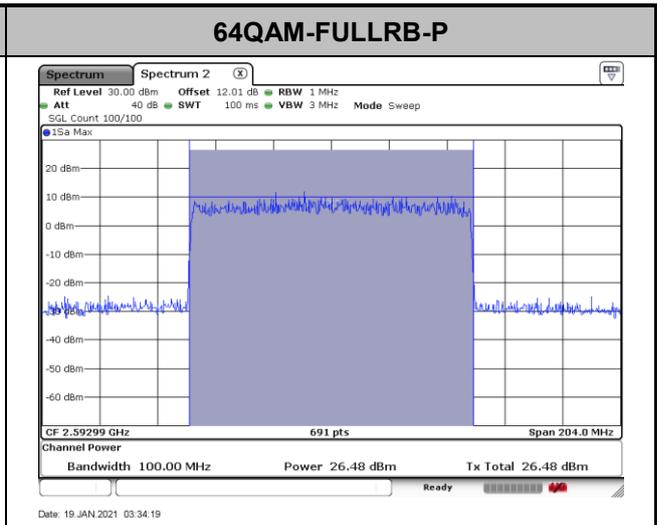
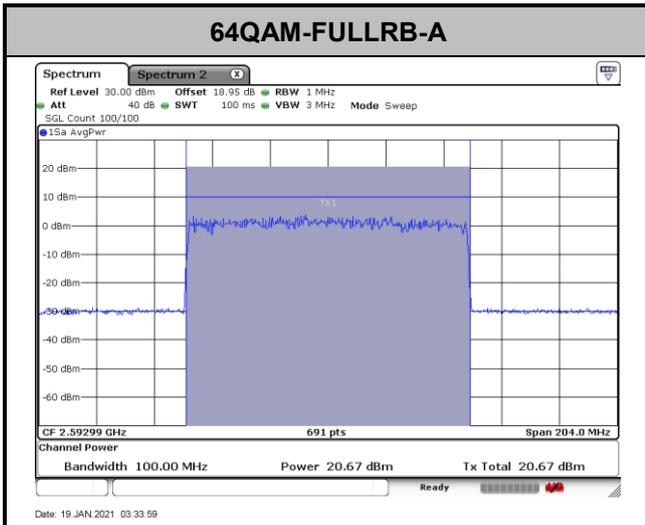
5G NR n41 UL_MIMO SA

Peak-to-Average Ratio

Mode	FR1 n41 / 100MHz / CP OFDM				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	5.39	5.58	5.81	5.67	PASS

Note: PAR=Peak-Average

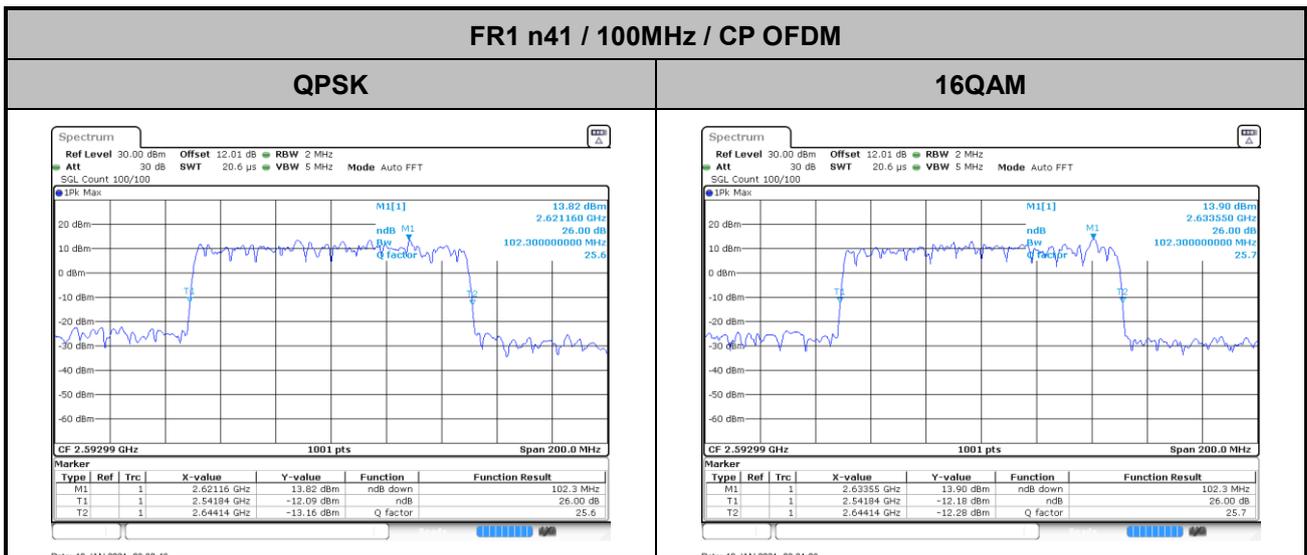






26dB Bandwidth

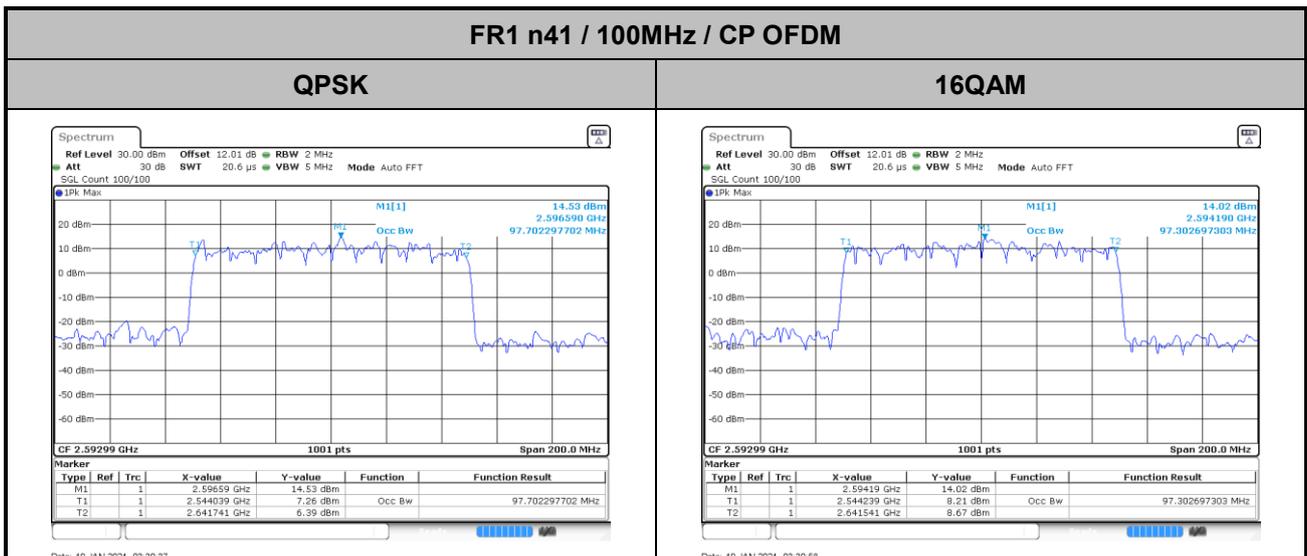
Mode	FR1 n41 : 26dB BW(MHz) / CP OFDM	
BW	100MHz	
Mod.	QPSK	16QAM
Middle CH	102.3	102.3





Occupied Bandwidth

Mode	FR1 n41 : 99%OBW(MHz) / CP OFDM	
BW	100MHz	
Mod.	QPSK	16QAM
Middle CH	97.702	97.303

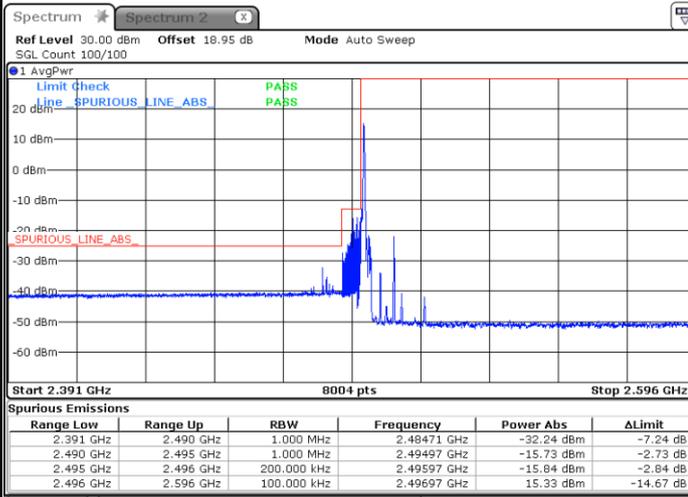




Conducted Band Edge

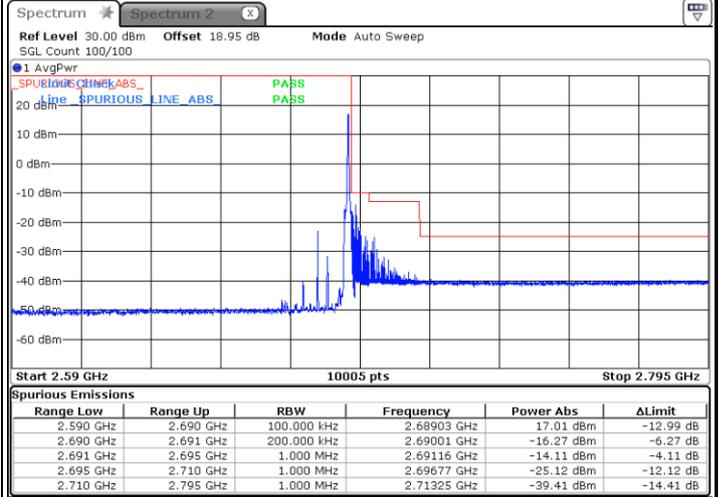
FR1 n41_UL MIMO / 20MHz / CP OFDM

20M-L-1RB0-Q



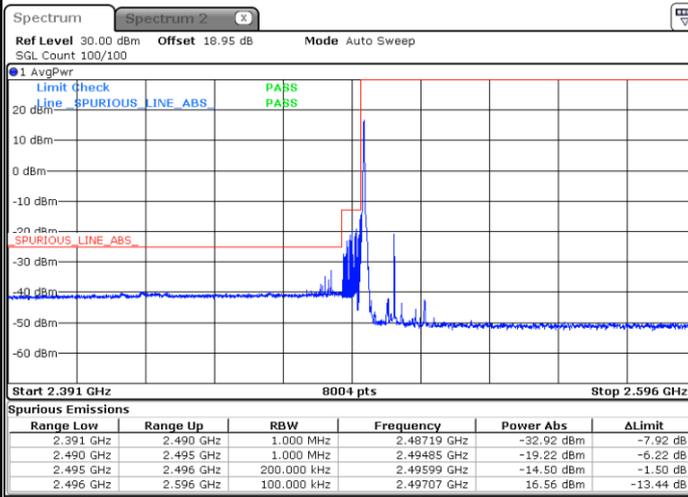
Date: 18 JAN 2021 22:50:09

20M-H-1RBMAX-Q



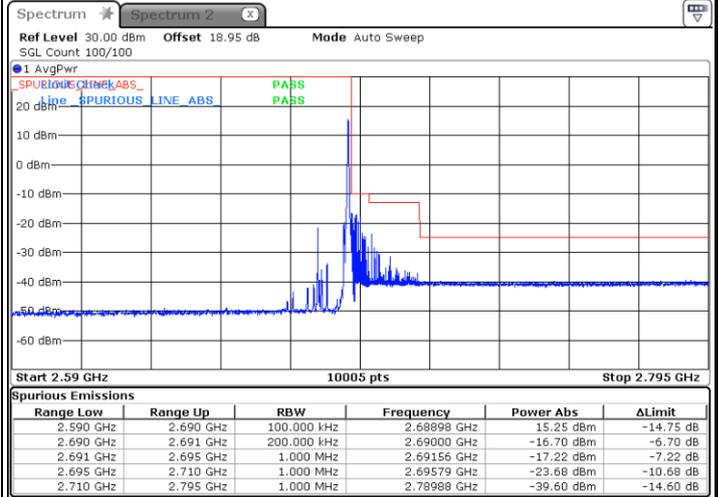
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20M-L-1RB0-16Q

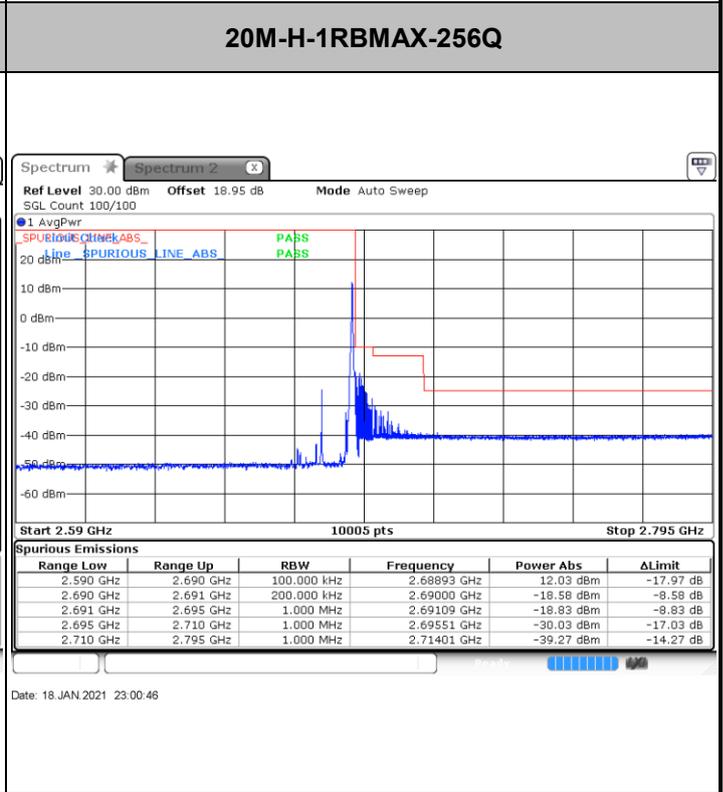
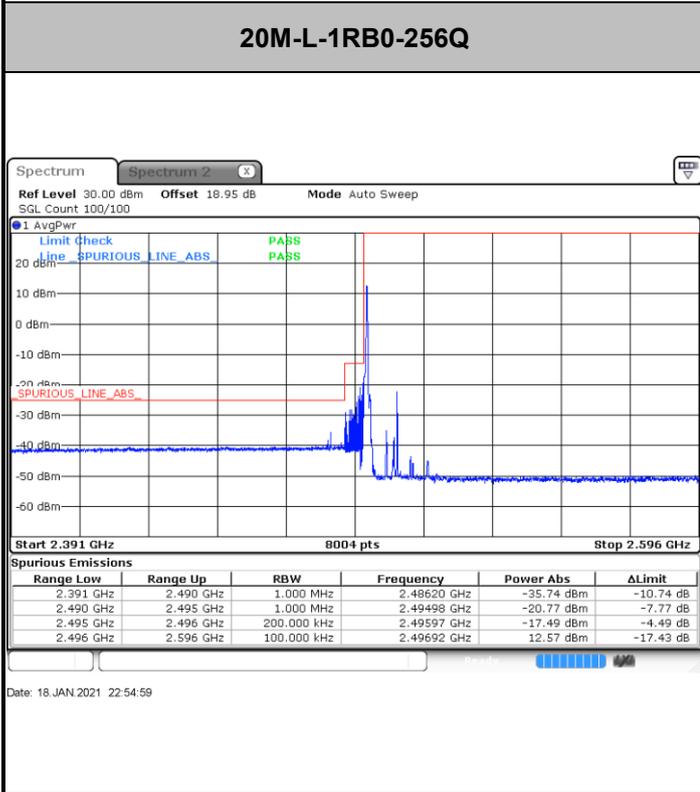
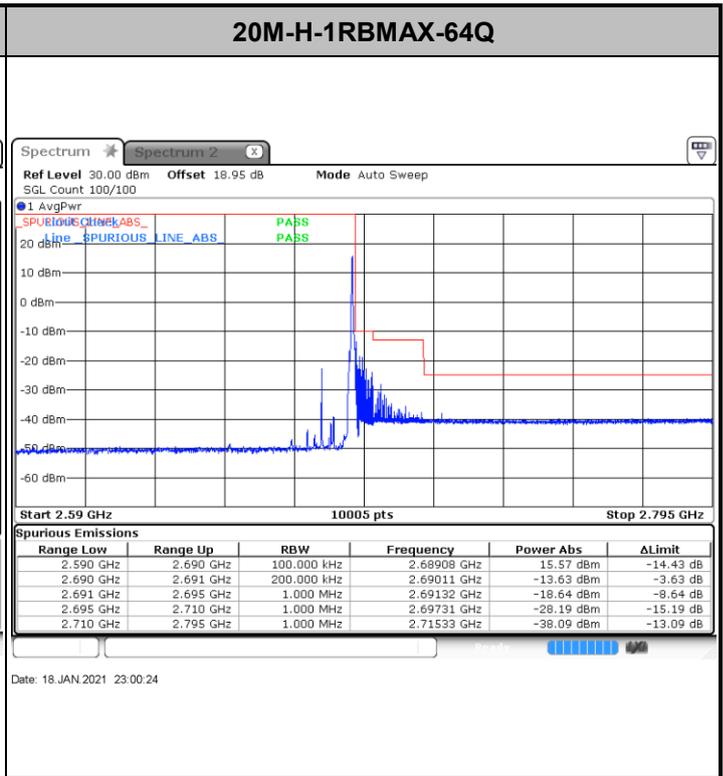
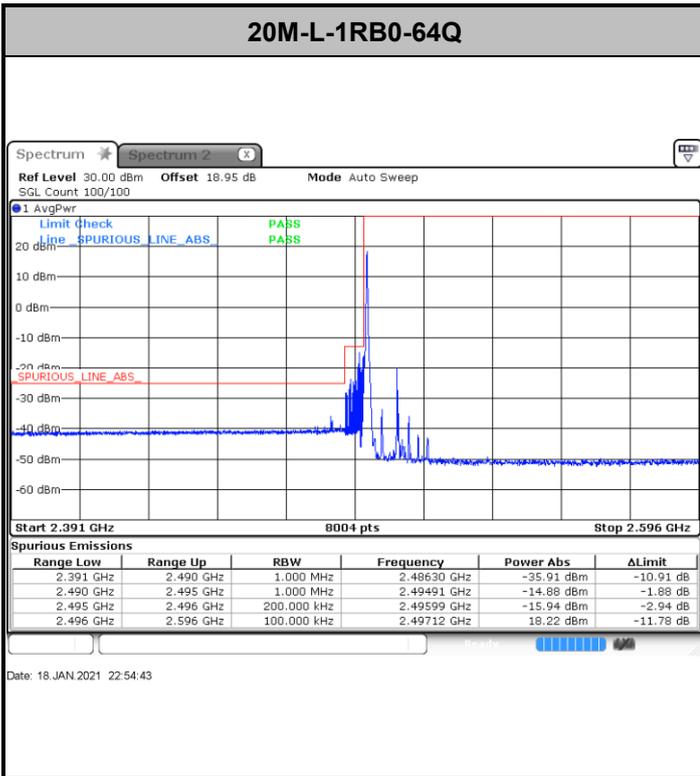


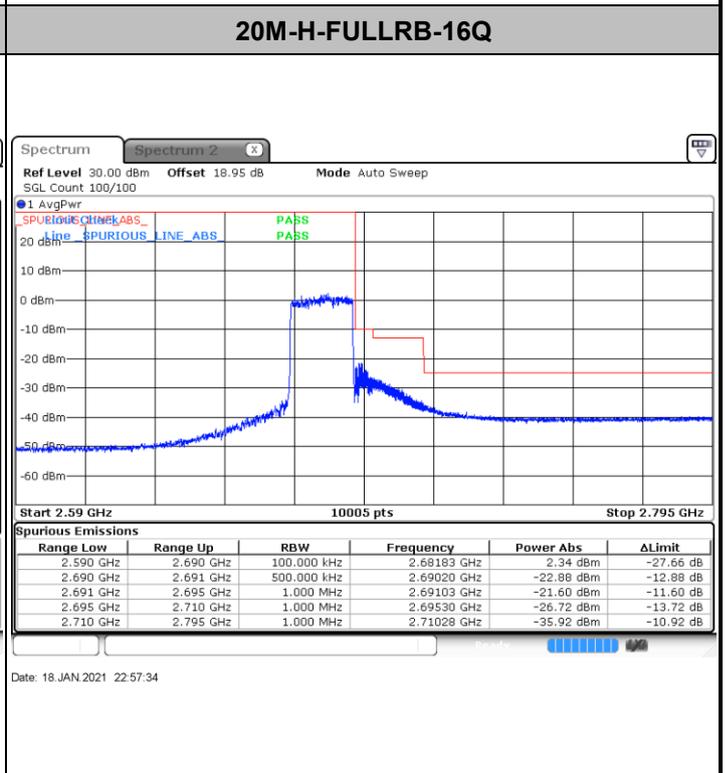
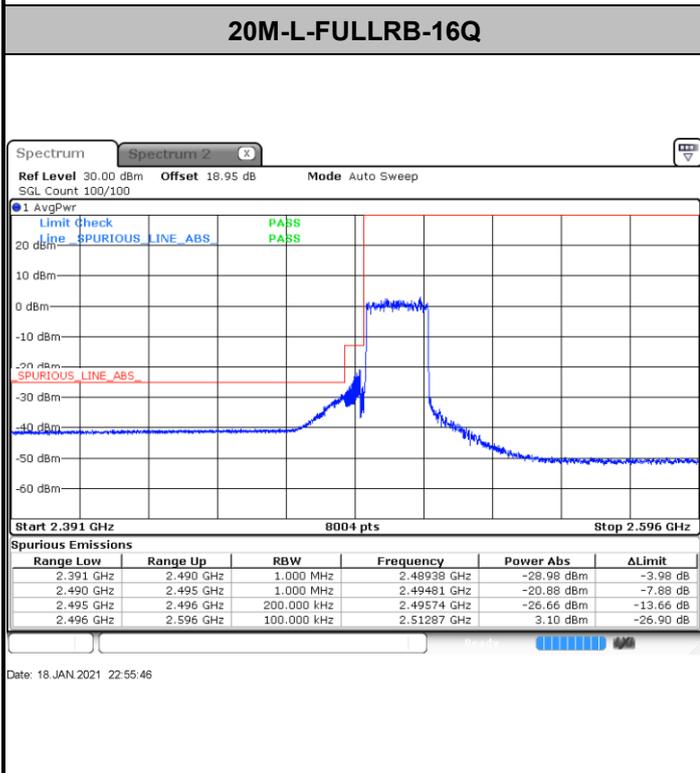
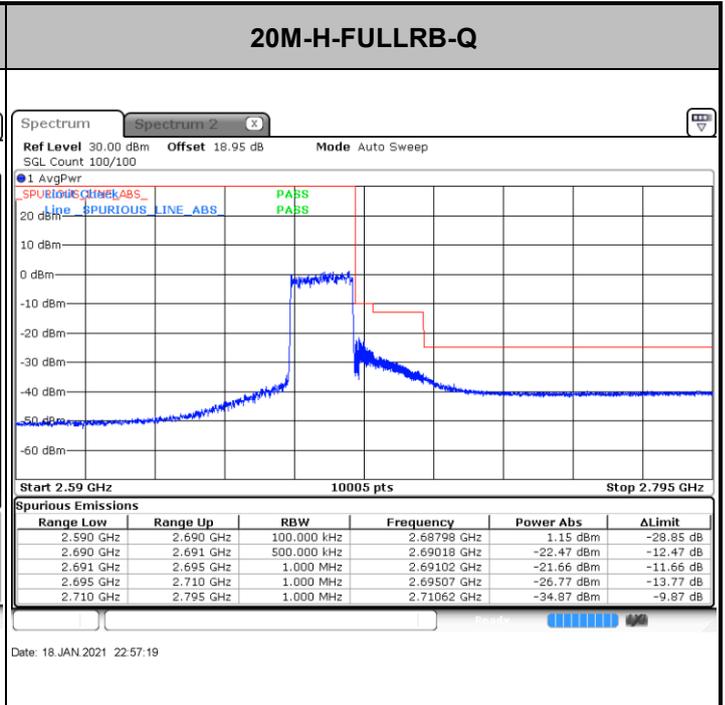
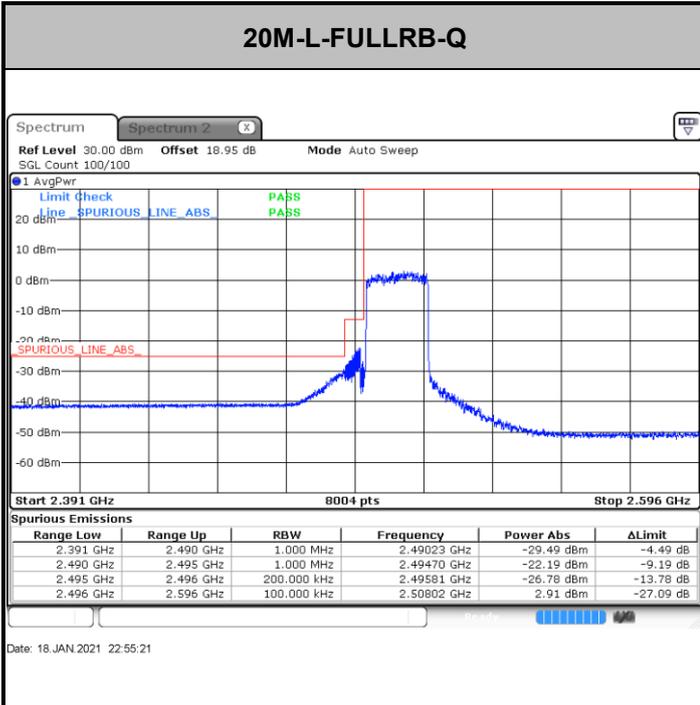
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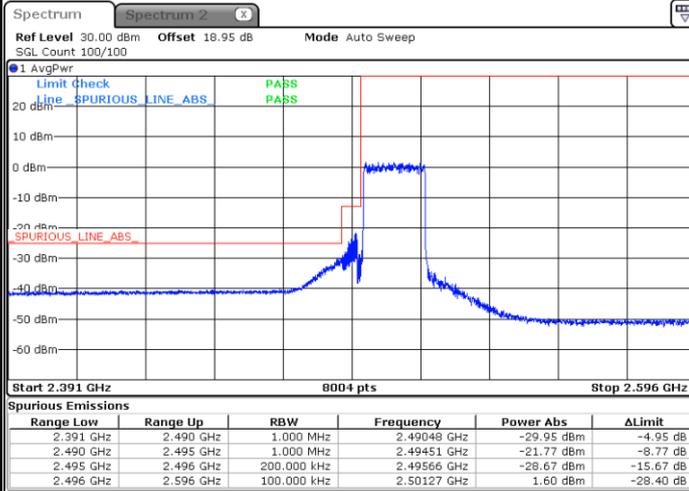
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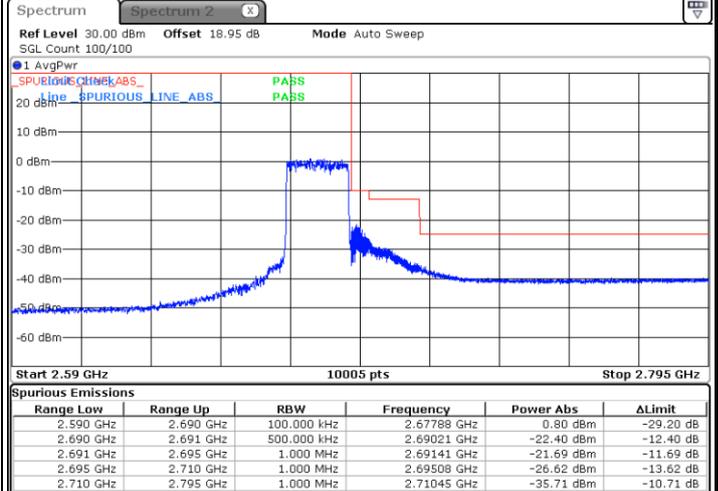


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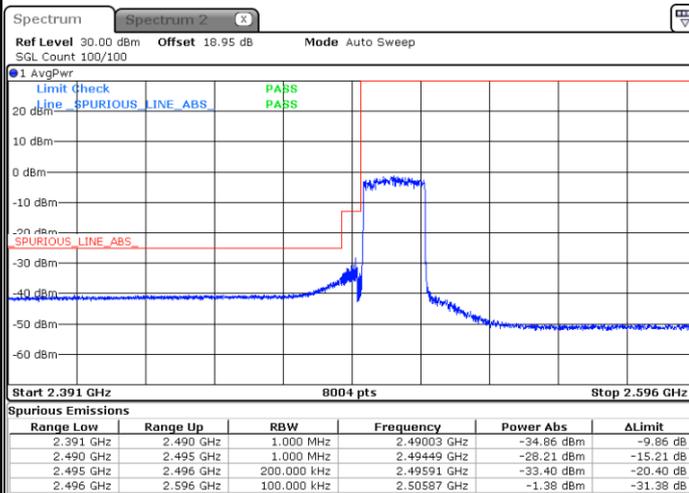
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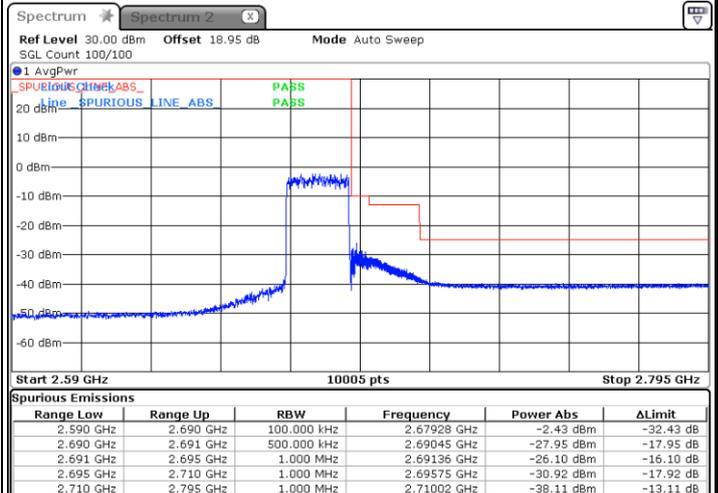
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20M-L-FULLRB-256Q



Date: 18 JAN 2021 22:56:18

20M-H-FULLRB-256Q



Date: 18 JAN 2021 22:59:05