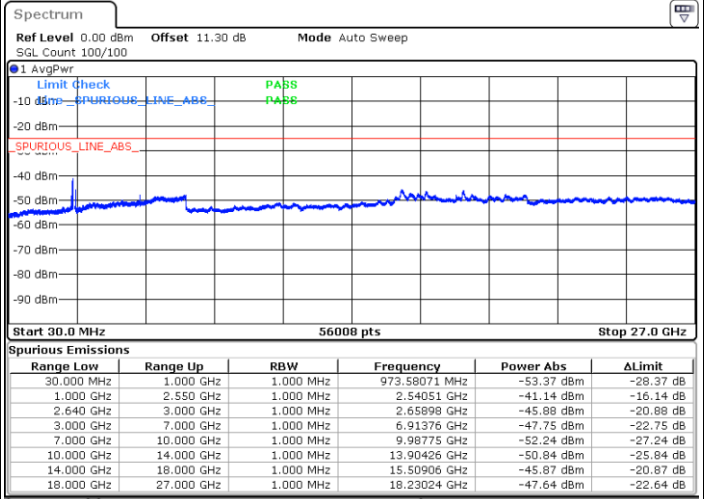
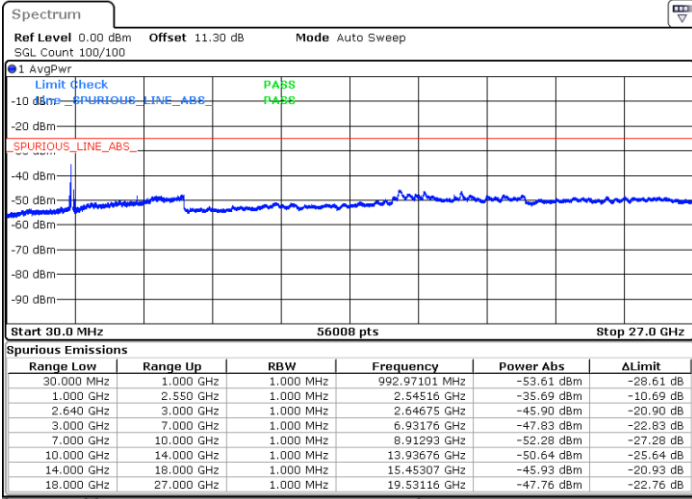




FR1 n38 / 10MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB

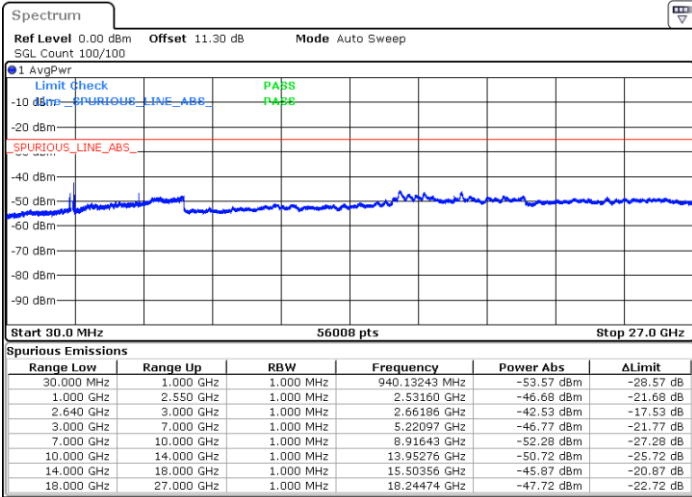
Middle Channel / 1RB



Date: 21.JAN.2021 07:52:36

Date: 21.JAN.2021 06:19:41

Highest Channel / 1RB



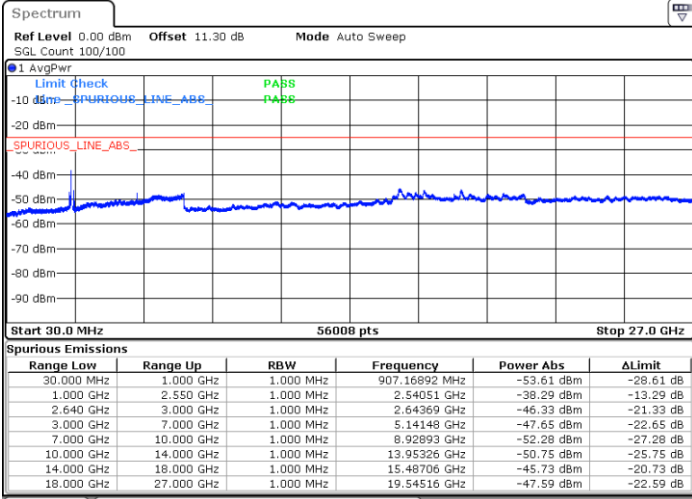
Date: 21.JAN.2021 06:30:04



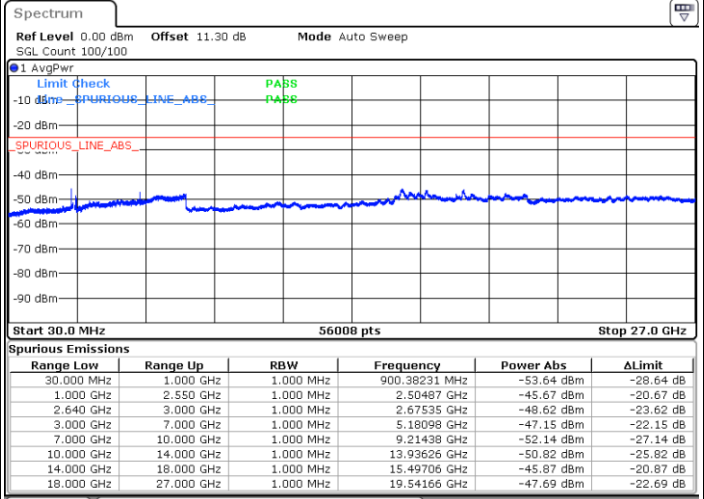
FR1 n38 / 10MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB

Middle Channel / 1RB

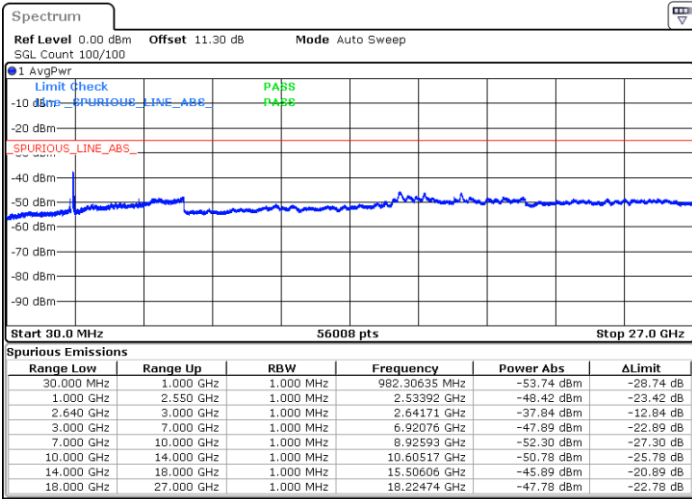


Date: 21.JAN.2021 07:51:38



Date: 21.JAN.2021 06:18:06

Highest Channel / 1RB



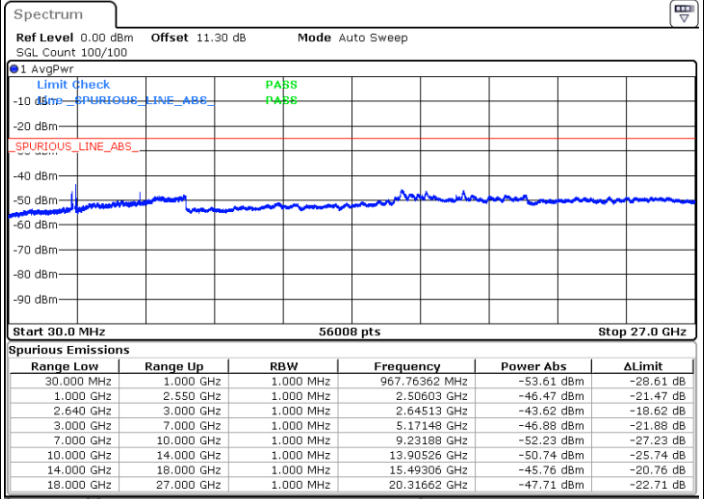
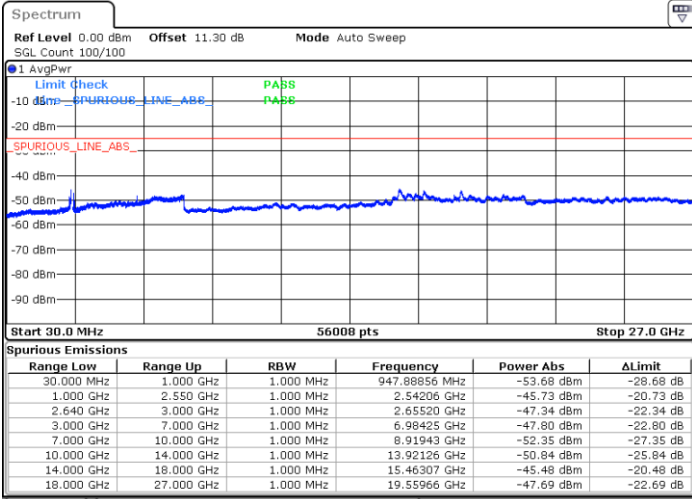
Date: 21.JAN.2021 06:31:01



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

Lowest Channel / 1RB

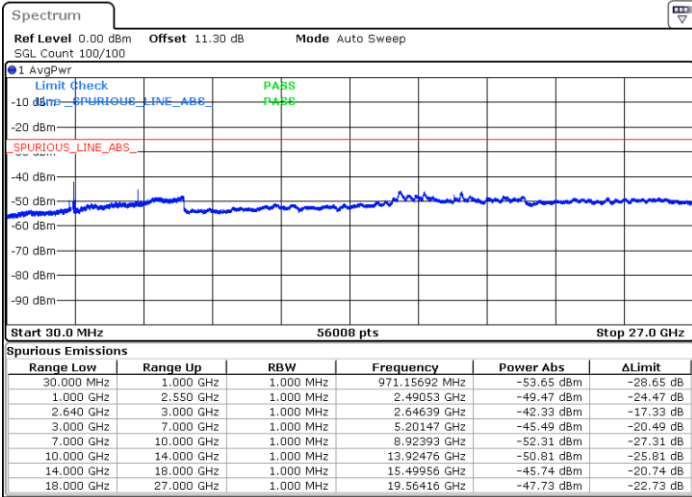
Middle Channel / 1RB



Date: 21.JAN.2021 05:53:13

Date: 21.JAN.2021 05:50:17

Highest Channel / 1RB



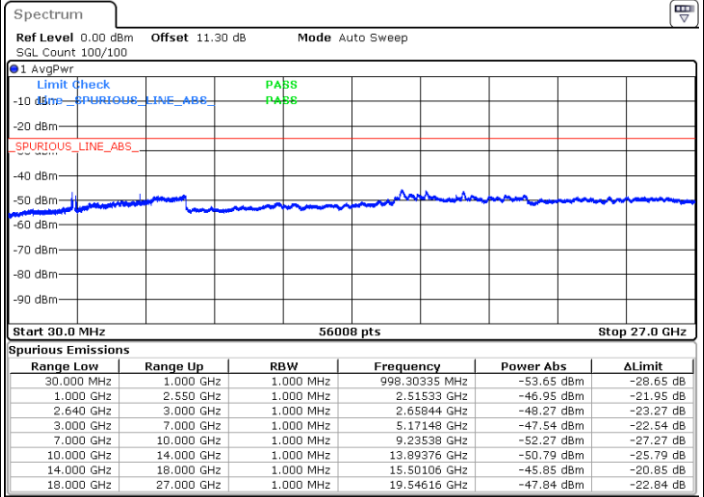
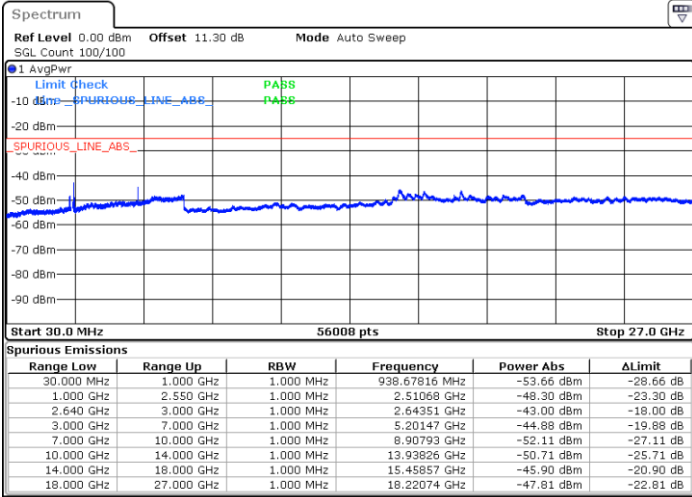
Date: 21.JAN.2021 06:04:54



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

Lowest Channel / 1RB

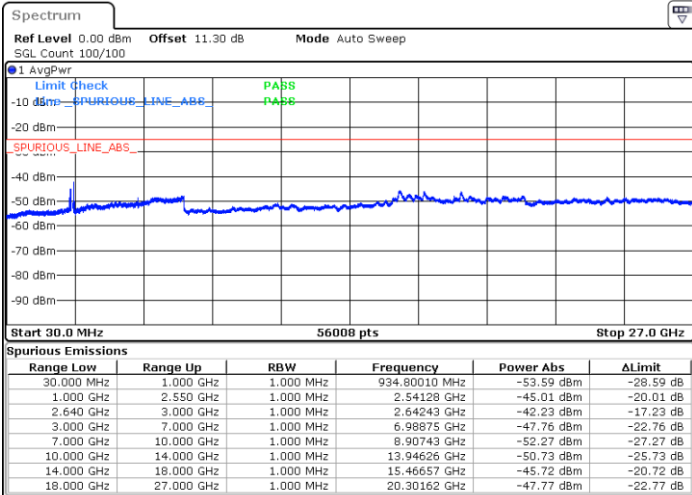
Middle Channel / 1RB



Date: 21.JAN.2021 06:08:31

Date: 21.JAN.2021 05:40:47

Highest Channel / 1RB



Date: 21.JAN.2021 06:09:47



### Frequency Stability

Test Conditions		NR n38 (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Within Band
		Deviation (ppm)	Result
50	Normal Voltage	0.0001	PASS
40	Normal Voltage	0.0010	
30	Normal Voltage	0.0002	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0010	
0	Normal Voltage	0.0007	
-10	Normal Voltage	0.0012	
-20	Normal Voltage	0.0006	
-30	Normal Voltage	0.0002	
20	Maximum Voltage	0.0007	
20	Normal Voltage	0.0001	
20	Battery End Point	0.0004	

**Note:**

- 1. Normal Voltage =3.3 V. ; Battery End Point (BEP) =3.14 V. ; Maximum Voltage =4.4 V.
- 2. Note: The frequency fundamental emissions stay within the authorized frequency block.



## 5G NR n41 SA-SCS 15K

### Peak-to-Average Ratio

Mode	FR1 n41 / 10MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	PI/2 BPSK	QPSK	QPSK	Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.52	3.8	4.84	5.04	<b>PASS</b>
Middle CH	3.07	3.68	4.78	4.96	
Highest CH	4.67	3.74	4.41	5.22	



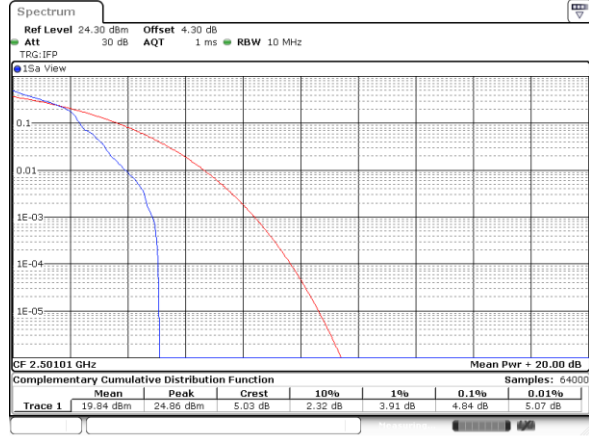
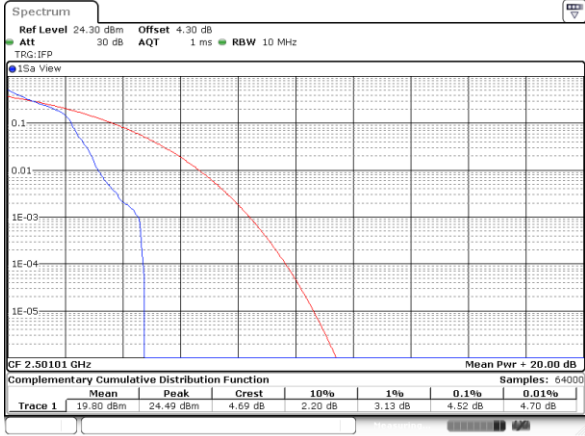
FR1 n41 / 10MHz / DFT-S OFDM

PI/2 BPSK

QPSK

Lowest Channel / 1RB

Lowest Channel / 1RB

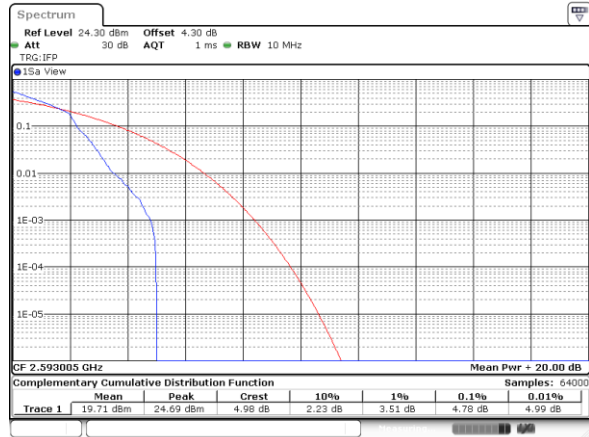
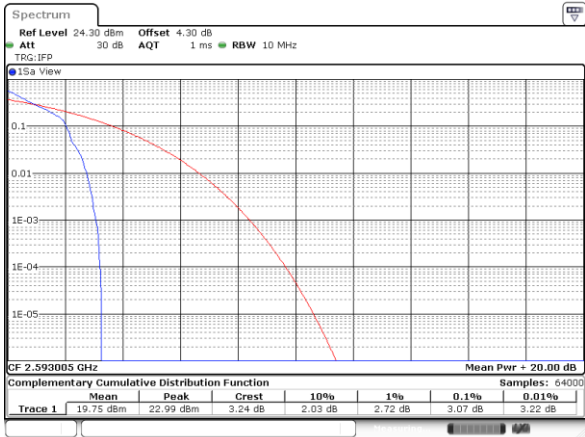


Date: 20\_JAN\_2021 07:13:00

Date: 20\_JAN\_2021 07:13:129

Middle Channel / 1 RB

Middle Channel / 1 RB

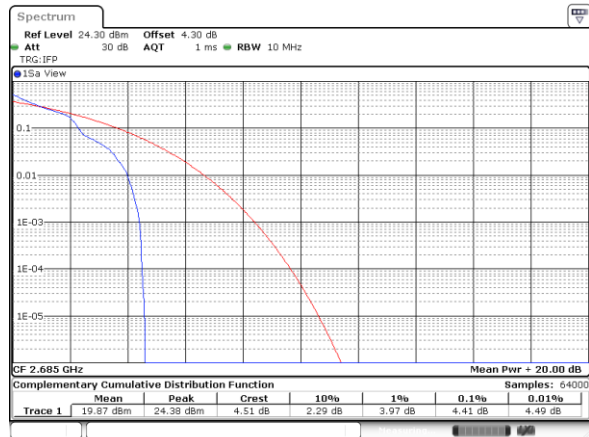
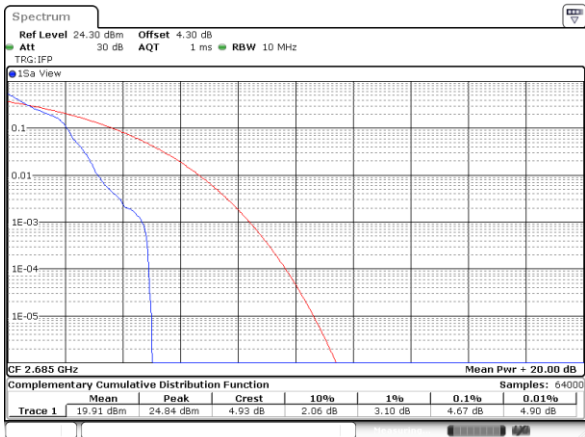


Date: 20\_JAN\_2021 07:13:00

Date: 20\_JAN\_2021 07:13:154

Highest Channel / 1 RB

Highest Channel / 1 RB



Date: 20\_JAN\_2021 07:13:14

Date: 20\_JAN\_2021 07:13:134



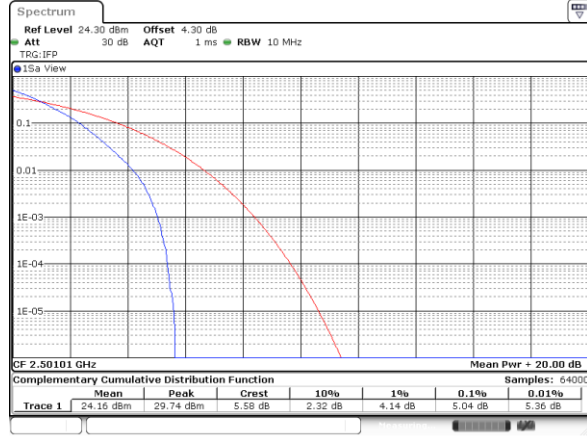
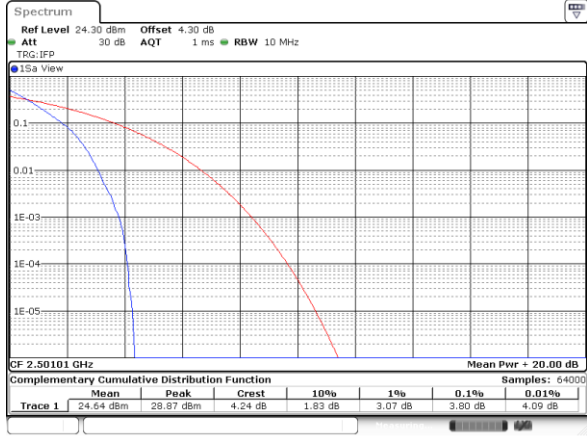
FR1 n41 / 10MHz / DFT-S OFDM

PI/2 BPSK

QPSK

Lowest Channel / Full RB

Lowest Channel / Full RB

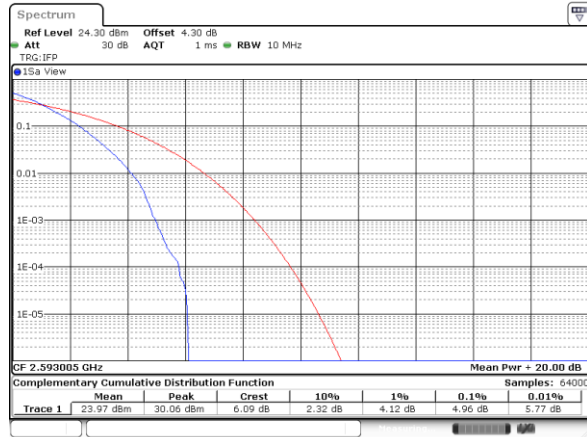
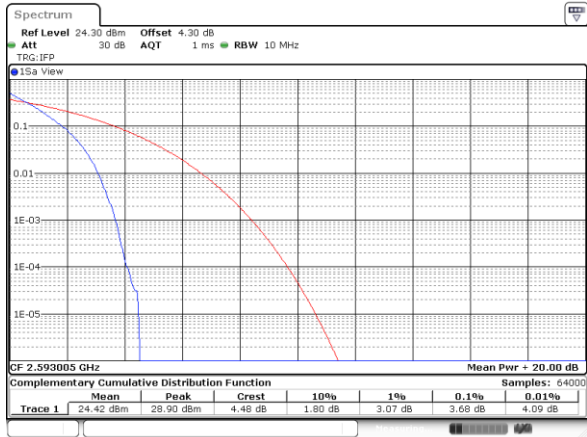


Date: 20\_JAN\_2021 07:13:129

Date: 20\_JAN\_2021 07:13:154

Middle Channel / Full RB

Middle Channel / Full RB

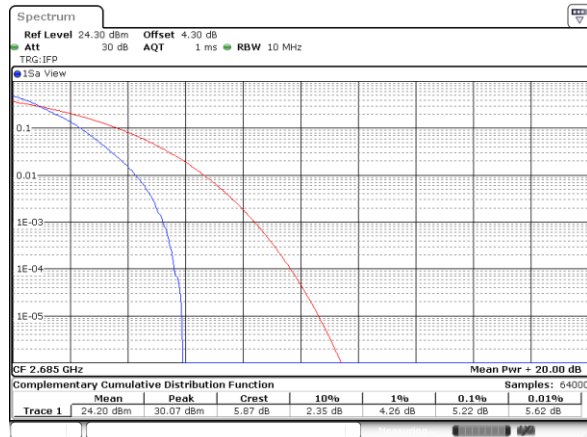
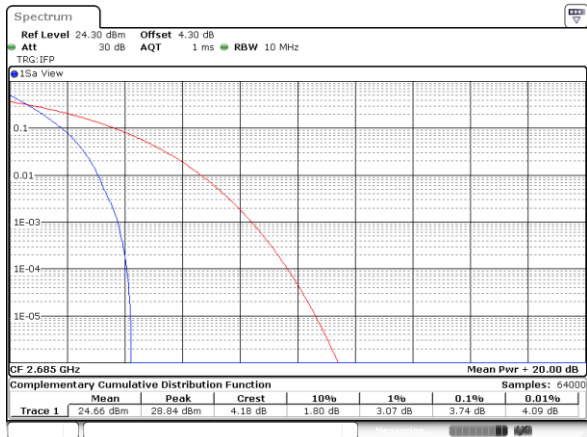


Date: 20\_JAN\_2021 07:13:133

Date: 20\_JAN\_2021 07:13:109

Highest Channel / Full RB

Highest Channel / Full RB



Date: 20\_JAN\_2021 07:13:136

Date: 20\_JAN\_2021 07:13:103





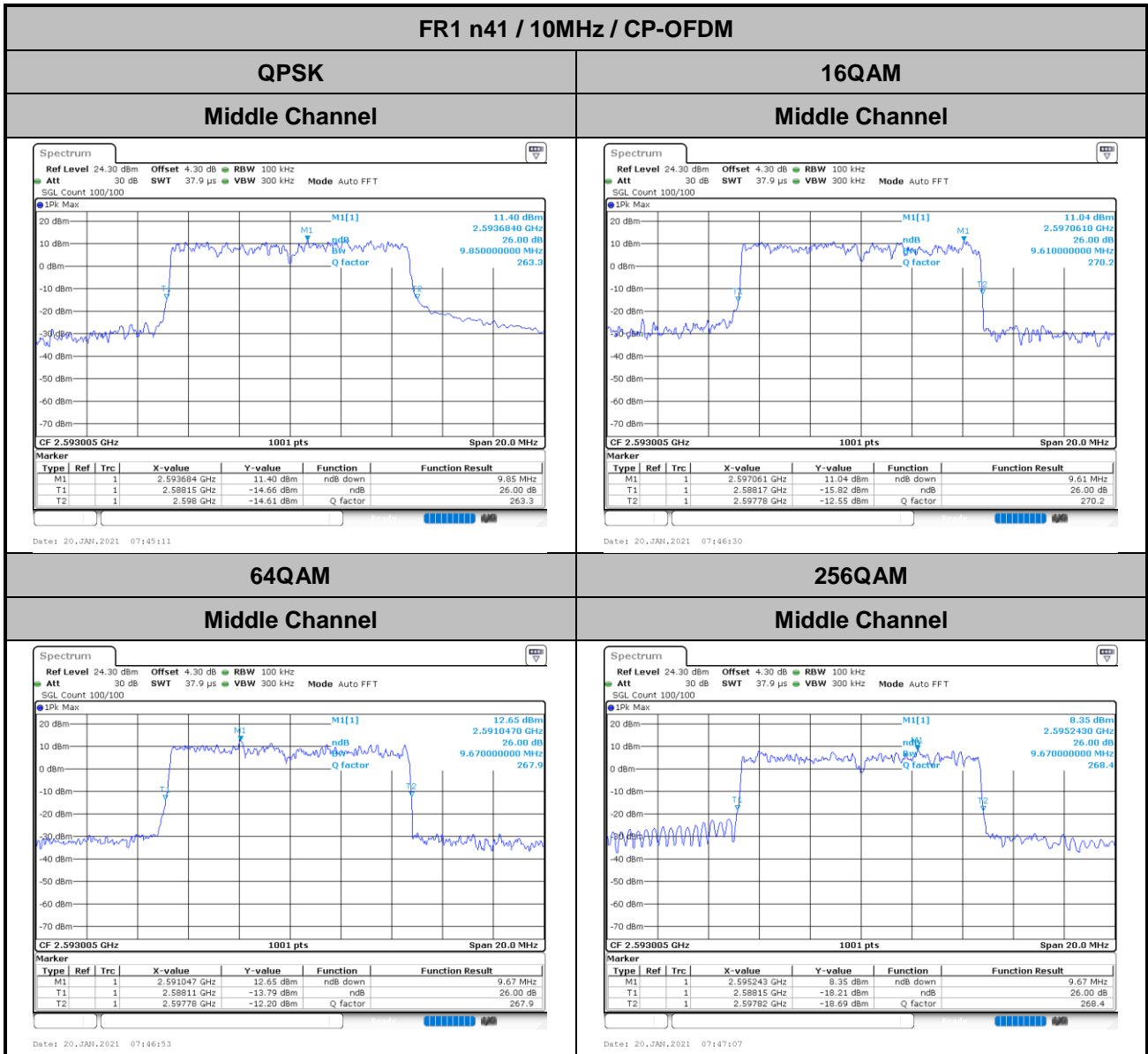
**26dB Bandwidth**

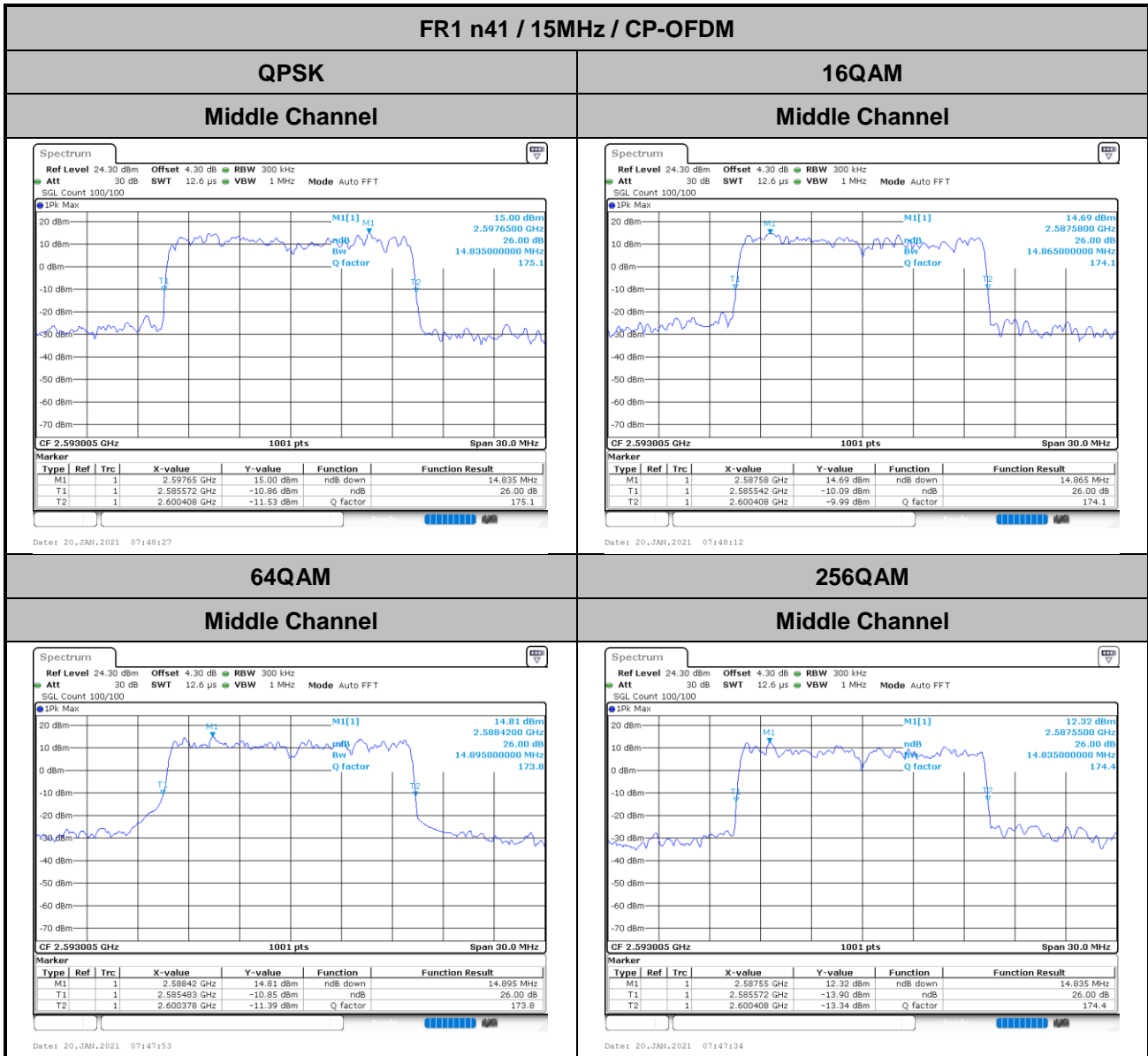
Mode	FR1 n41 : 26dB BW(MHz) / CP-OFDM							
BW	10MHz	10MHz	10MHz	10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	9.85	9.61	9.67	9.67				

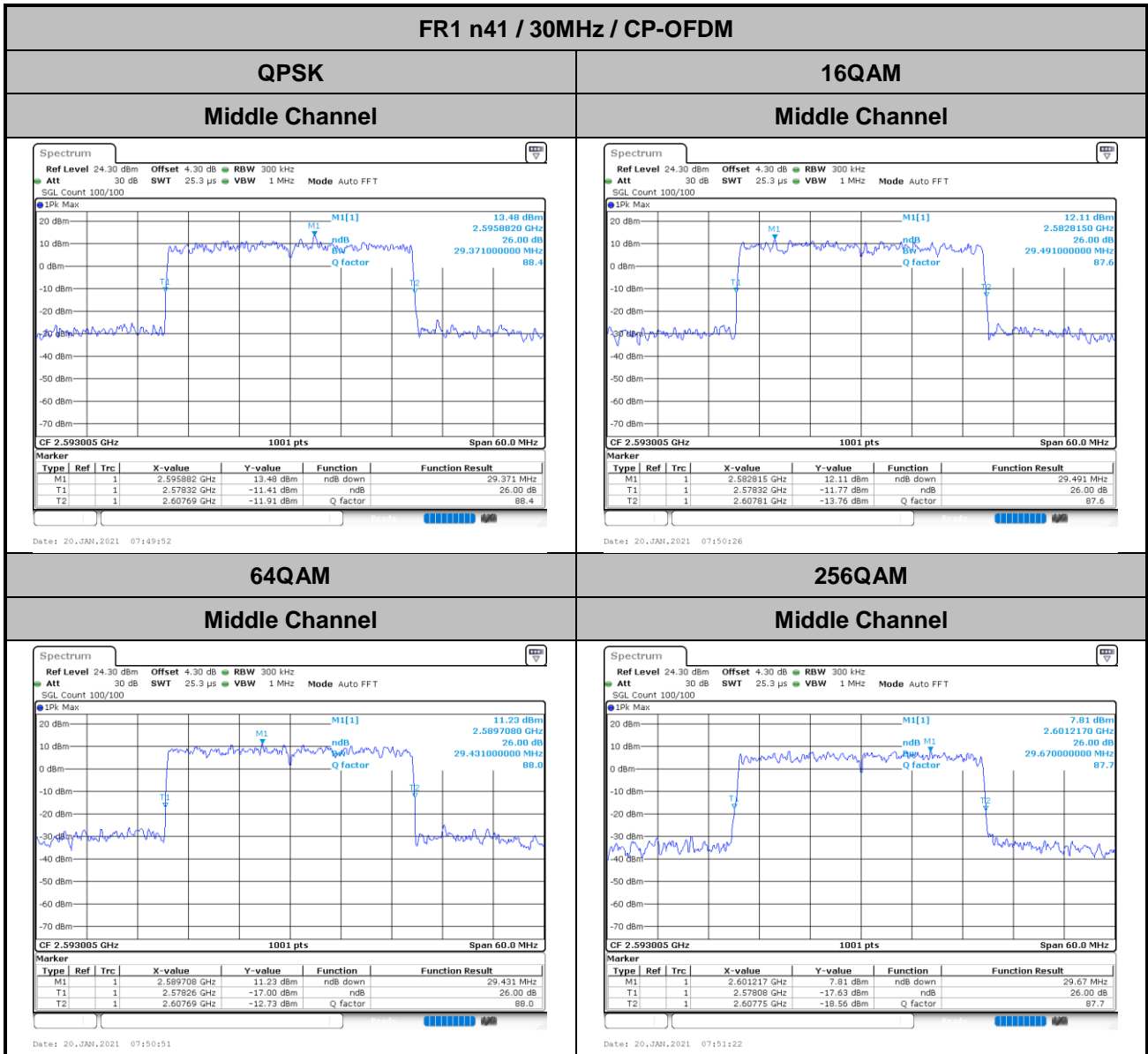
Mode	FR1 n41 : 26dB BW(MHz) / CP-OFDM							
BW	15MHz	15MHz	15MHz	15MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	14.83	14.86	14.89	14.83				

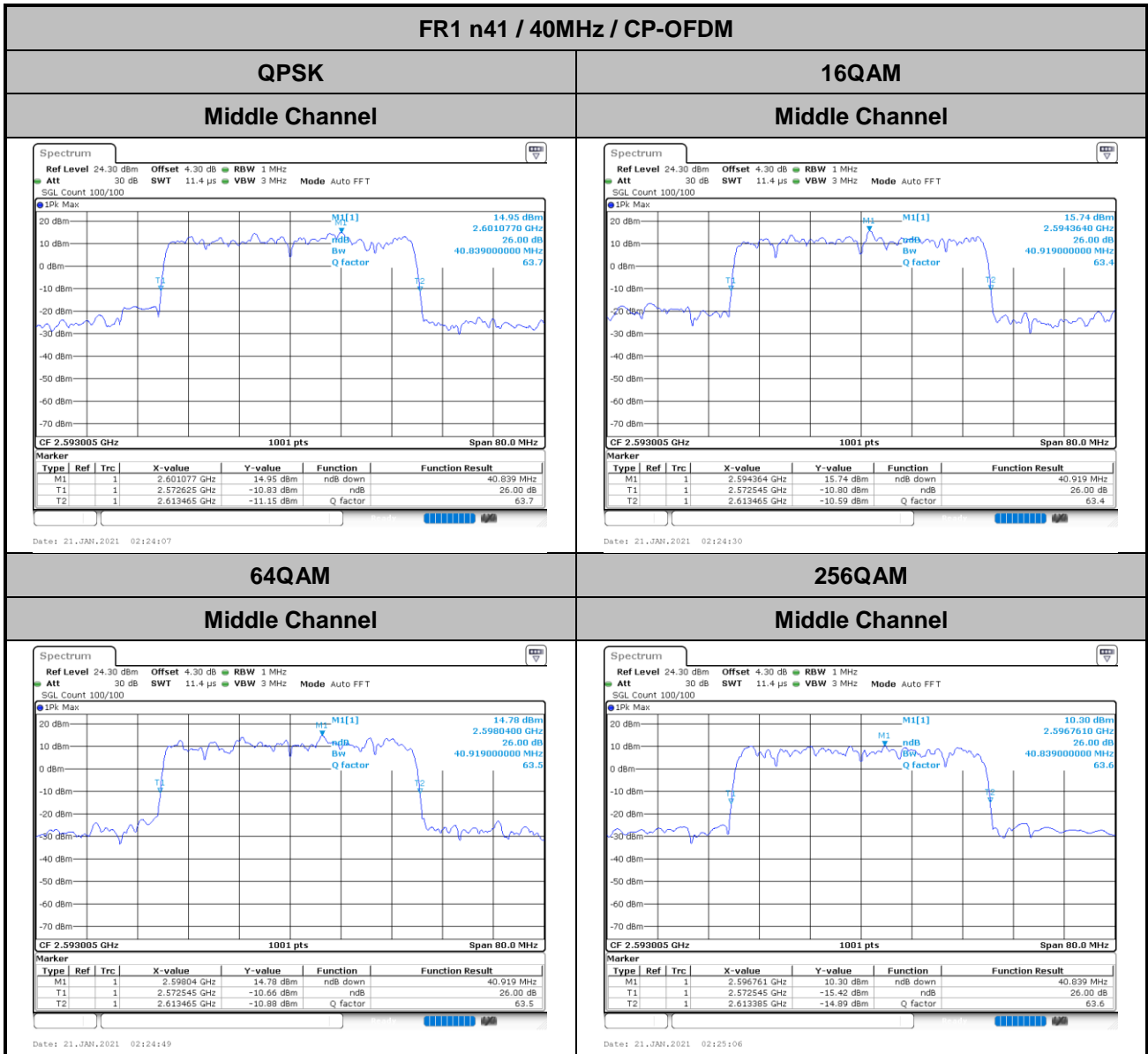
Mode	FR1 n41 : 26dB BW(MHz) / CP-OFDM							
BW	30MHz	30MHz	30MHz	30MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	29.37	29.49	29.43	29.67				

Mode	FR1 n41 : 26dB BW(MHz) / CP-OFDM							
BW	40MHz	40MHz	40MHz	40MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	40.83	40.91	40.91	40.83				











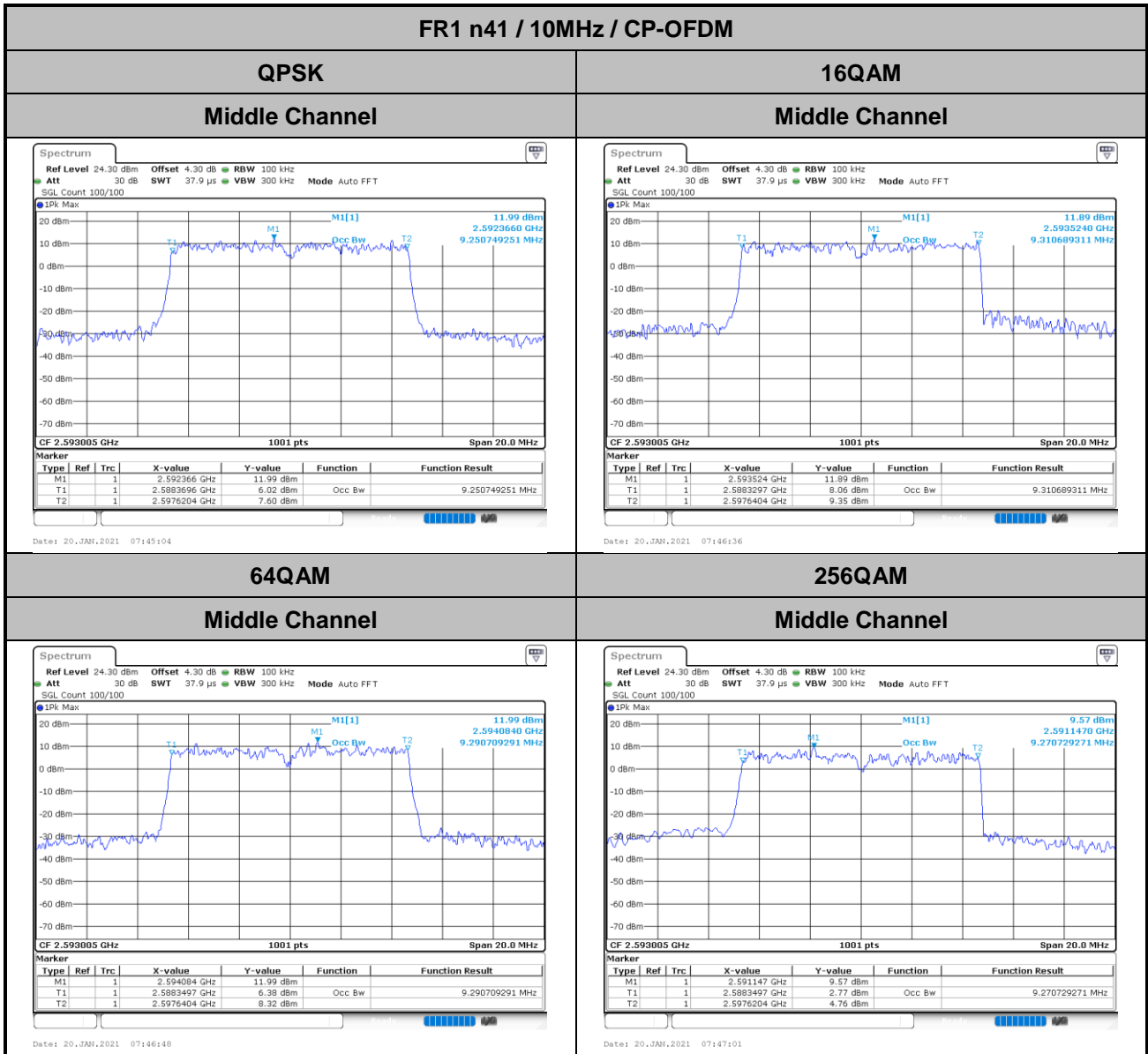
### Occupied Bandwidth

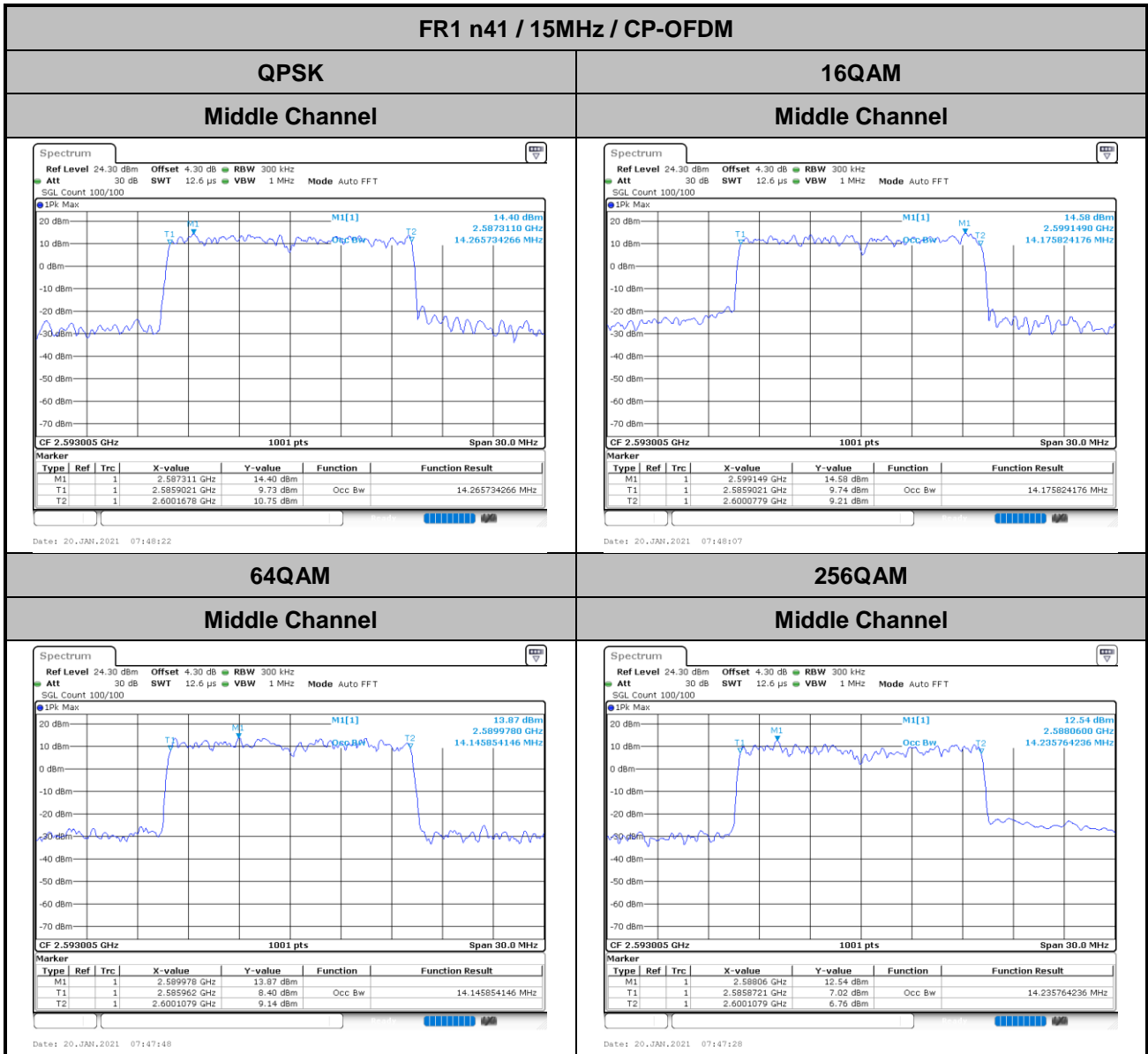
Mode	FR1 n41 : OBW(MHz) / CP-OFDM							
BW	10MHz	10MHz	10MHz	10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	9.25	9.31	9.29	9.27				

Mode	FR1 n41 : OBW(MHz) / CP-OFDM							
BW	15MHz	15MHz	15MHz	15MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	14.26	14.17	14.14	14.23				

Mode	FR1 n41 : OBW(MHz) / CP-OFDM							
BW	30MHz	30MHz	30MHz	30MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	28.59	28.47	28.53	28.47				

Mode	FR1 n41 : OBW(MHz) / CP-OFDM							
BW	40MHz	40MHz	40MHz	40MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	38.6	38.84	38.44	38.76				









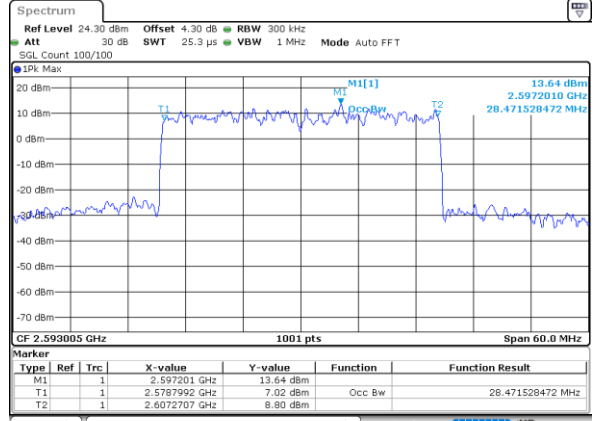
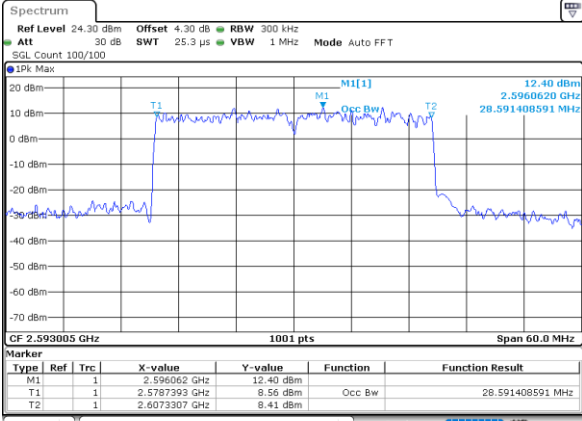
FR1 n41 / 30MHz / CP-OFDM

QPSK

16QAM

Middle Channel

Middle Channel



Date: 20\_JAN\_2021 07:149:43

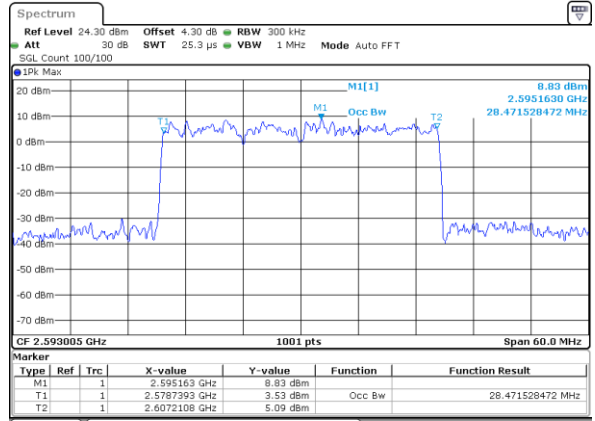
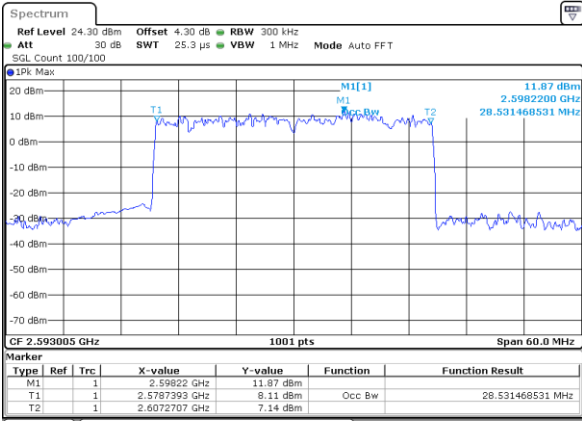
Date: 20\_JAN\_2021 07:50:116

64QAM

256QAM

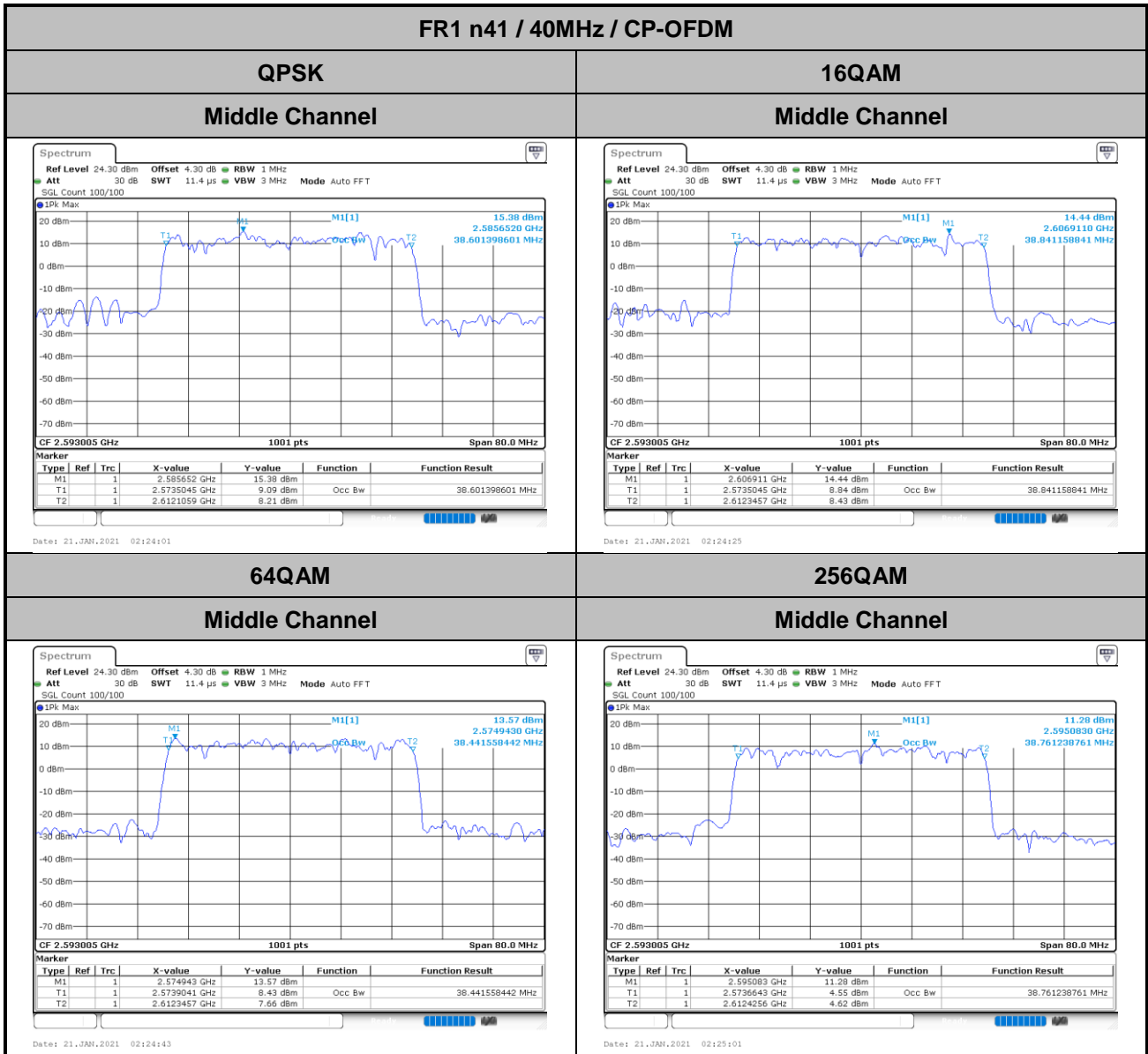
Middle Channel

Middle Channel



Date: 20\_JAN\_2021 07:50:43

Date: 20\_JAN\_2021 07:51:114

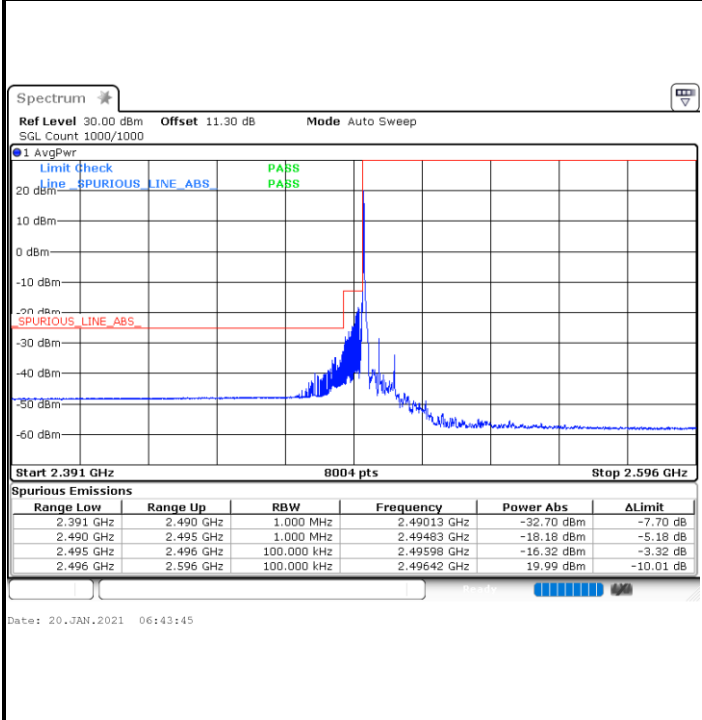




# Conducted Band Edge

## FR1 n41 / 10MHz / DFT-S OFDM BPSK

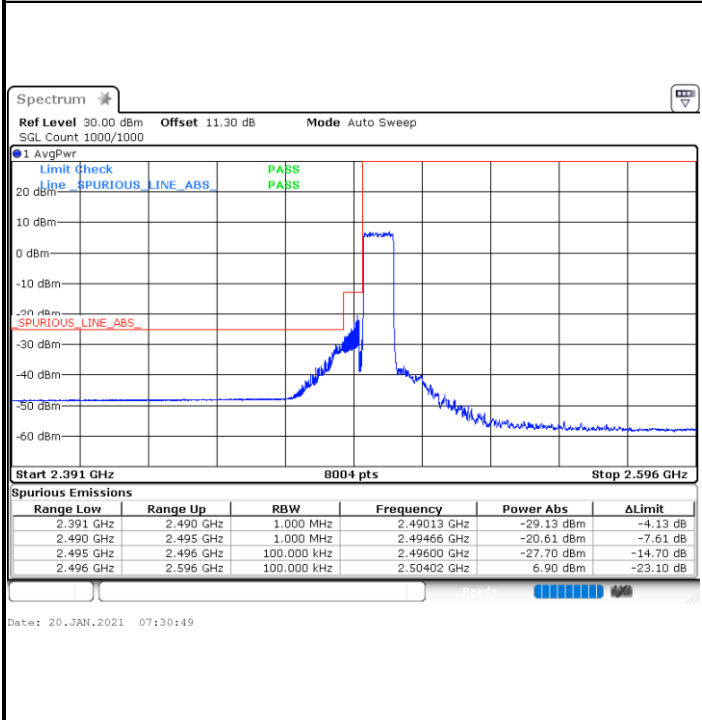
### Lowest Band Edge / 1 RB



### Channel Power < -13dBm Pass

/

### Lowest Band Edge / Full RB



### Channel Power < -13dBm Pass

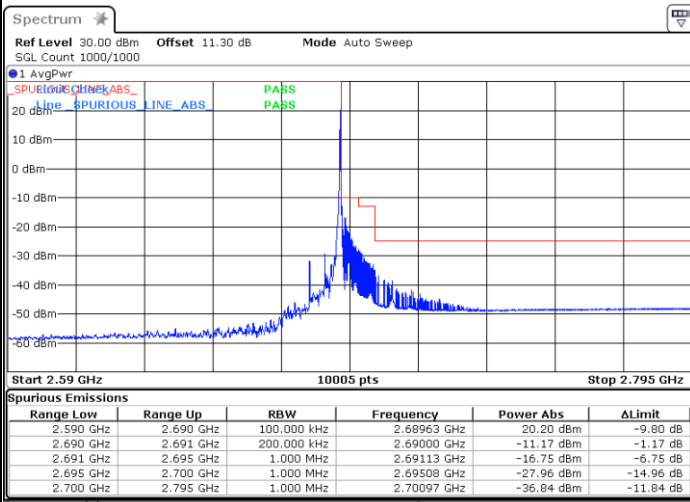
/



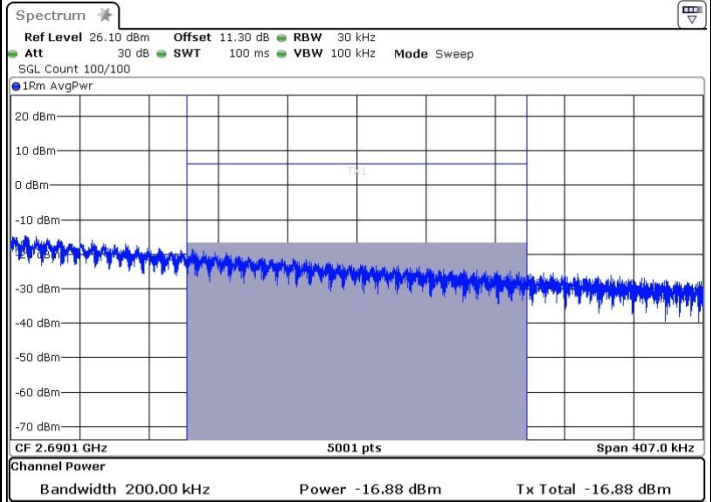
FR1 n41 / 10MHz / DFT-S OFDM BPSK

Highest Band Edge / 1 RB

Channel Power < -10dBm Pass



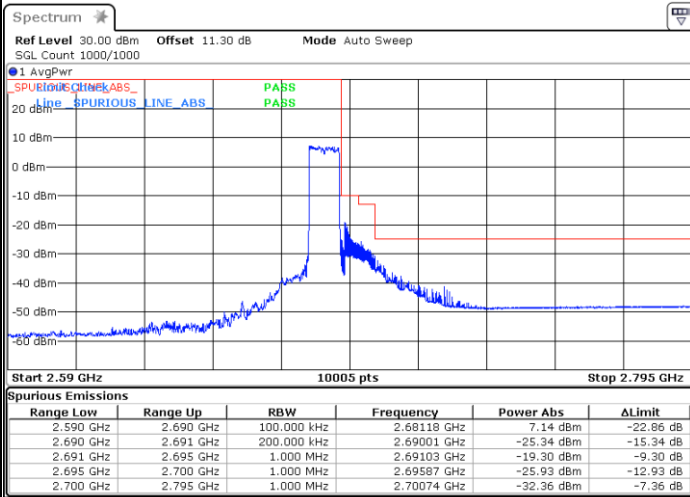
Date: 20.JAN.2021 05:34:25



Date: 20.JAN.2021 06:10:16

Highest Band Edge / Full RB

Channel Power < -10dBm Pass



Date: 20.JAN.2021 05:49:54

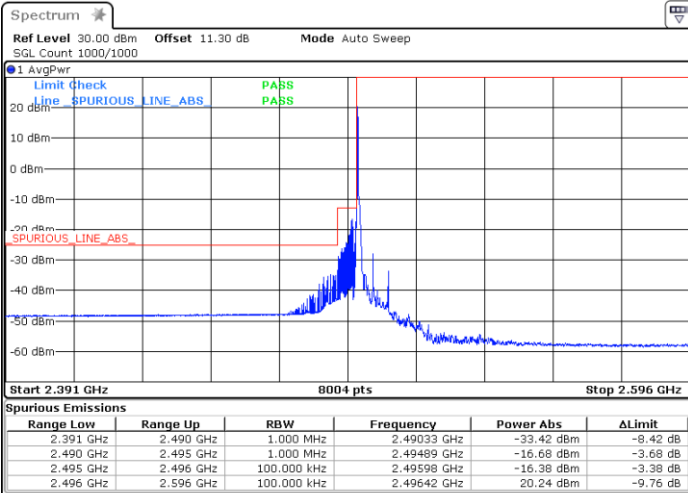
/



FR1 n41 / 10MHz / DFT-S OFDM QPSK

Lowest Band Edge / 1 RB

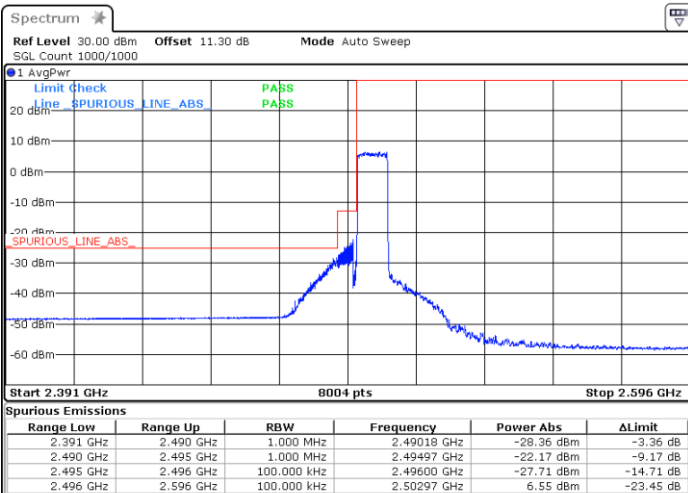
Channel Power < -13dBm Pass



Date: 20.JAN.2021 06:39:51

Lowest Band Edge / Full RB

Channel Power < -13dBm Pass



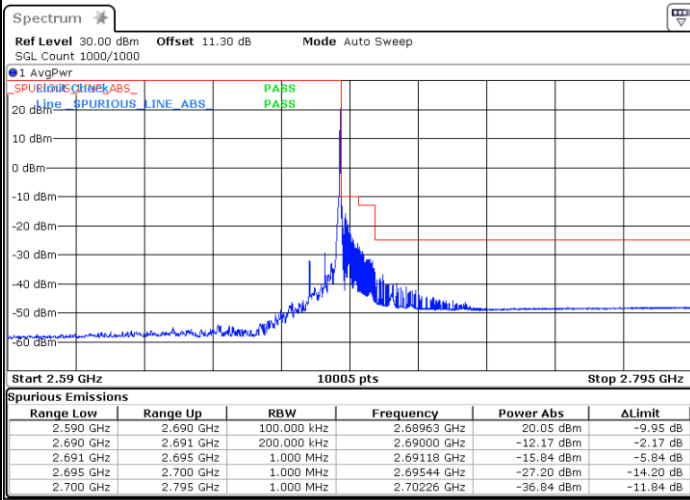
Date: 20.JAN.2021 07:31:51



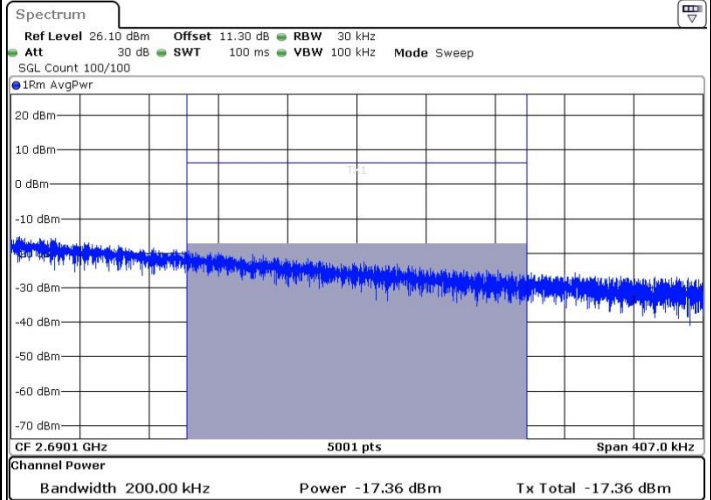
FR1 n41 / 10MHz / DFT-S OFDM QPSK

Highest Band Edge / 1 RB

Channel Power < -10dBm Pass



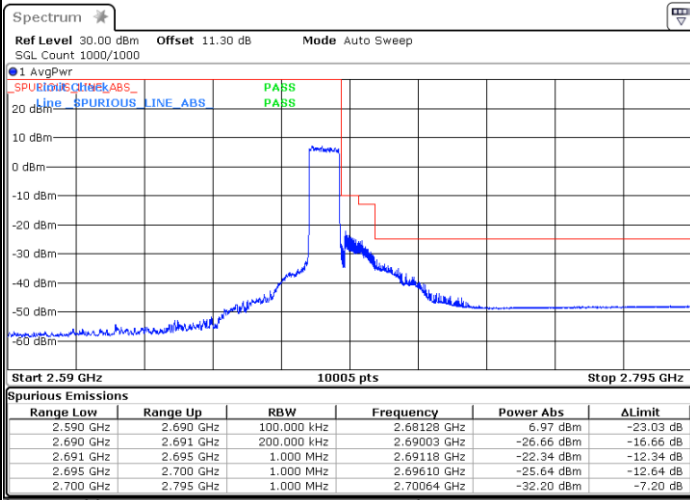
Date: 20.JAN.2021 05:39:30



Date: 20.JAN.2021 06:10:40

Highest Band Edge / Full RB

Channel Power < -10dBm Pass



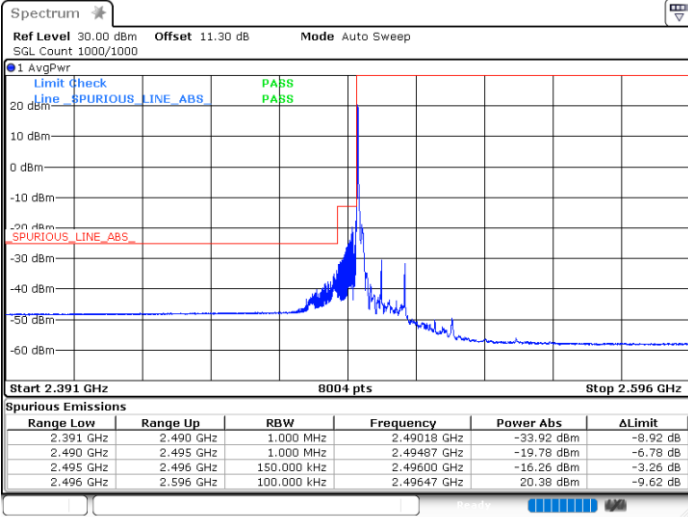
Date: 20.JAN.2021 05:47:37



FR1 n41 / 15MHz / DFT-S OFDM BPSK

Lowest Band Edge / 1 RB

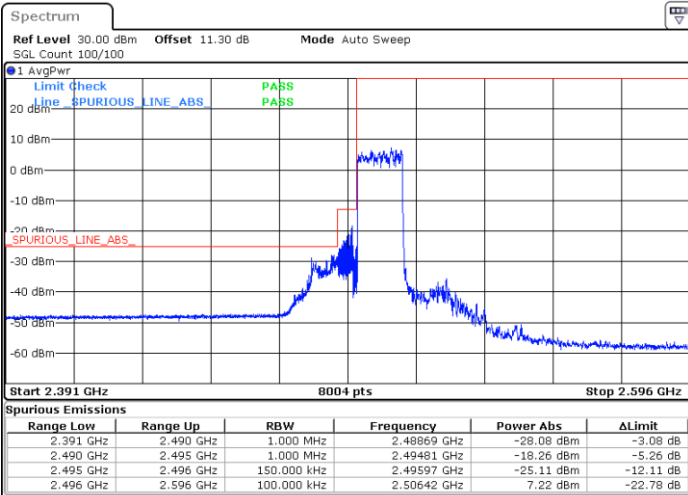
Channel Power < -13dBm Pass



Date: 20.JAN.2021 04:33:47

Lowest Band Edge / Full RB

Channel Power < -13dBm Pass

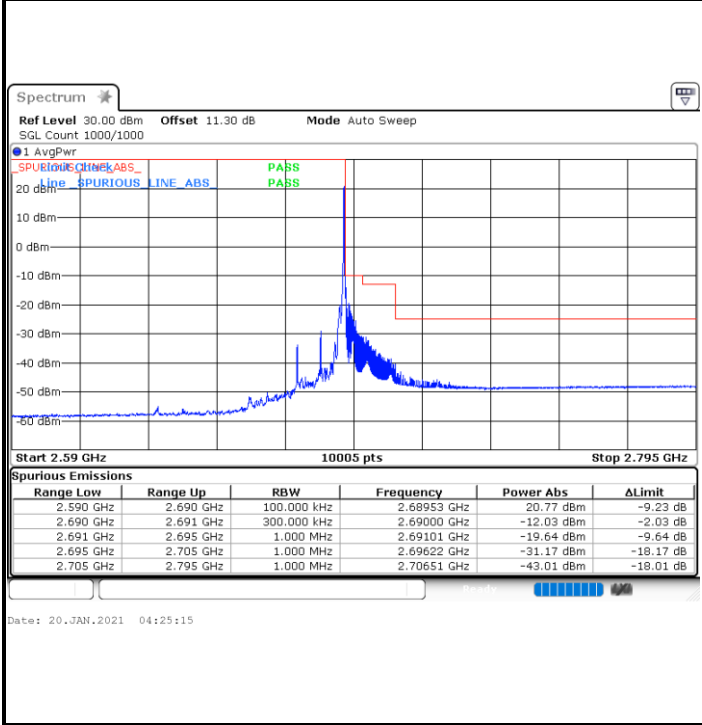


Date: 20.JAN.2021 04:38:34

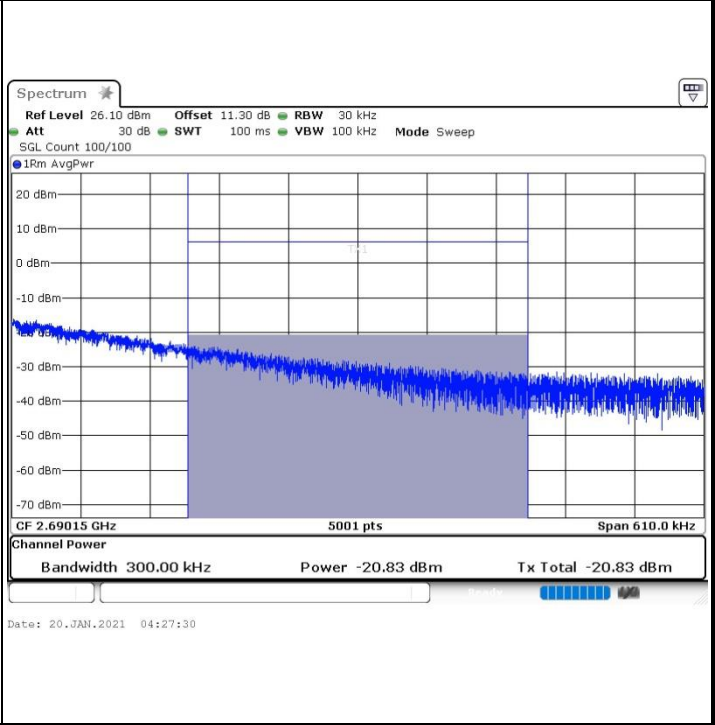


FR1 n41 / 15MHz / DFT-S OFDM BPSK

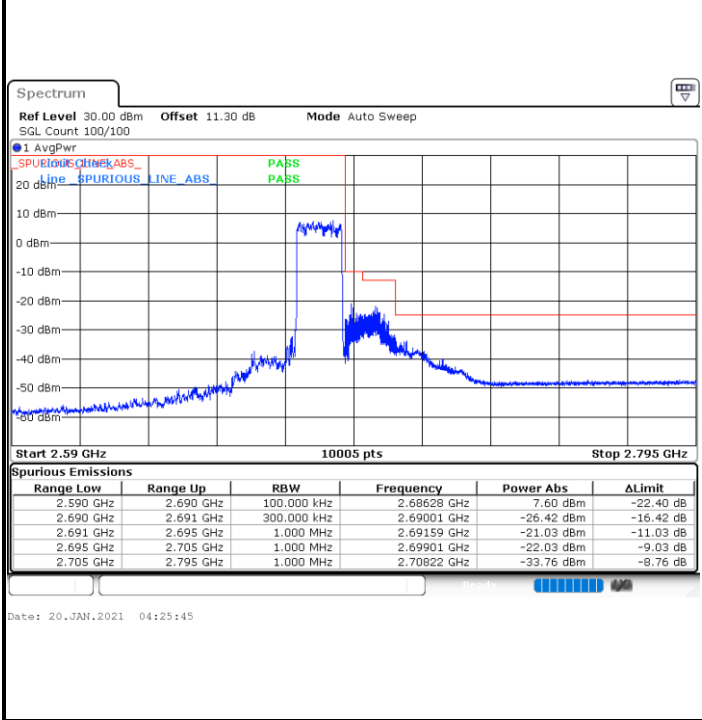
Highest Band Edge / 1 RB



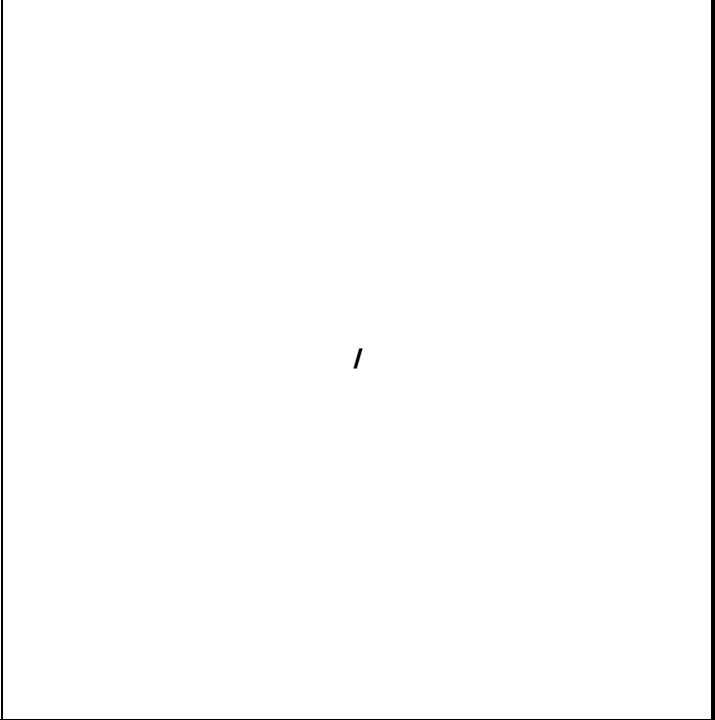
Channel Power < -10dBm Pass



Highest Band Edge / Full RB



Channel Power < -10dBm Pass



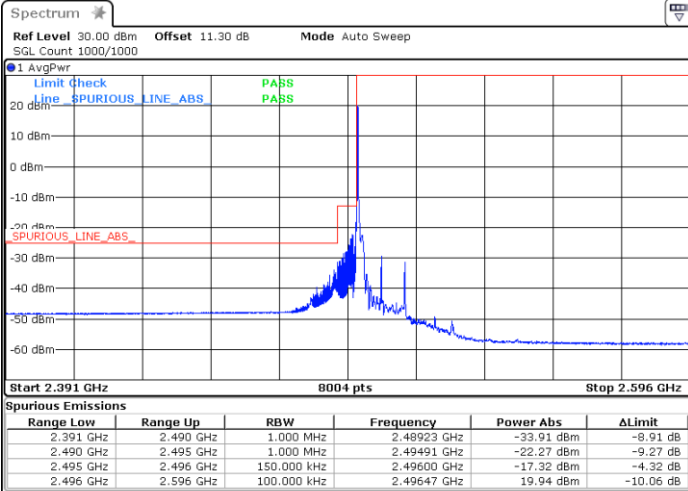




FR1 n41 / 15MHz / DFT-S OFDM QPSK

Lowest Band Edge / 1 RB

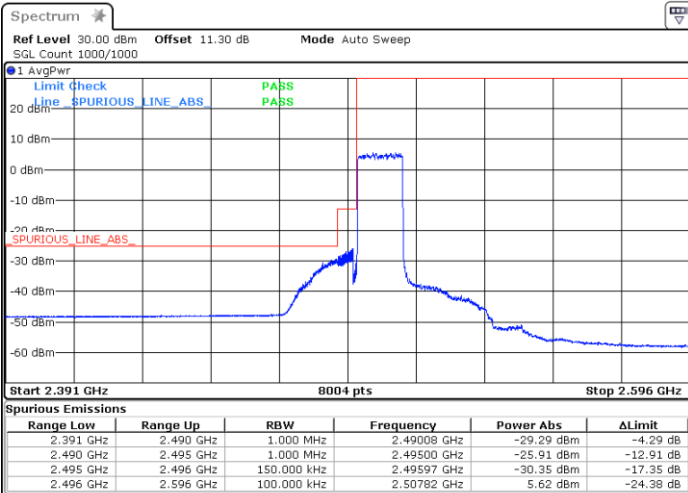
Channel Power < -13dBm Pass



Date: 20.JAN.2021 04:35:32

Lowest Band Edge / Full RB

Channel Power < -13dBm Pass



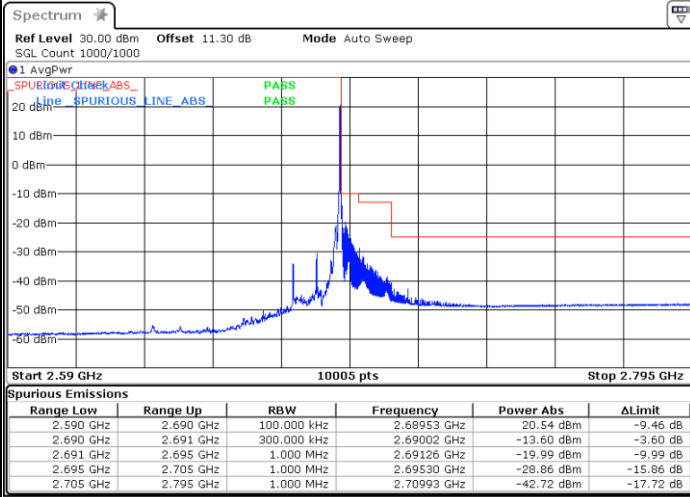
Date: 20.JAN.2021 04:38:13



FR1 n41 / 15MHz / DFT-S OFDM QPSK

Highest Band Edge / 1 RB

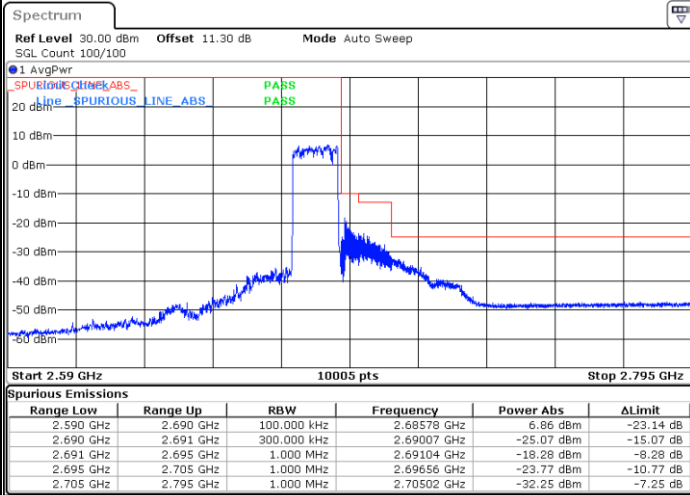
Channel Power < -13dBm Pass



Date: 20.JAN.2021 04:17:04

Highest Band Edge / Full RB

Channel Power < -13dBm Pass



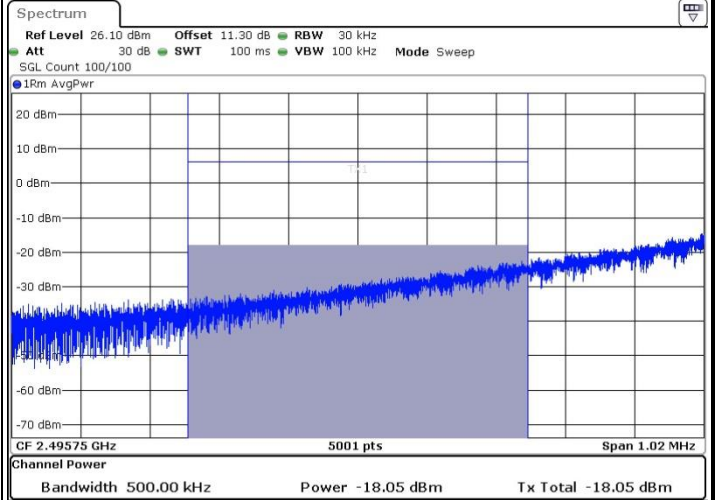
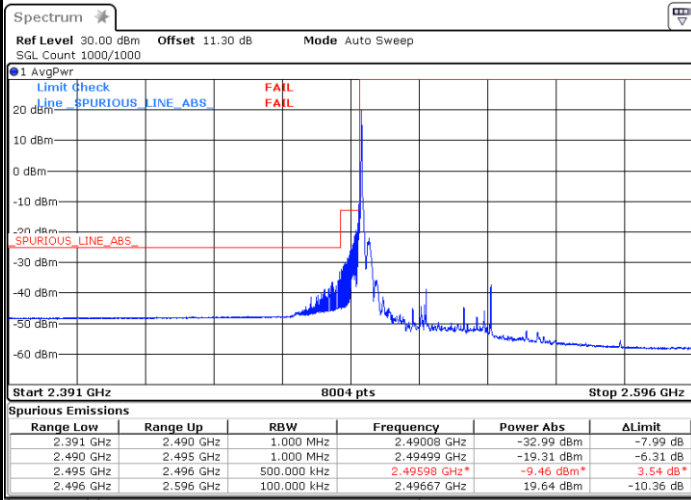
Date: 20.JAN.2021 04:26:06



FR1 n41 / 40MHz / DFT-S OFDM BPSK

Lowest Band Edge / 1 RB

Channel Power < -13dBm Pass

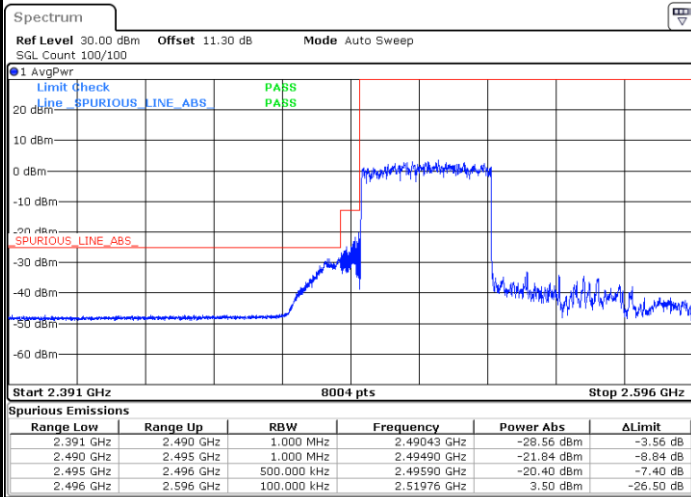


Date: 20.JAN.2021 03:20:07

Date: 20.JAN.2021 03:23:47

Lowest Band Edge / Full RB

Channel Power < -13dBm Pass

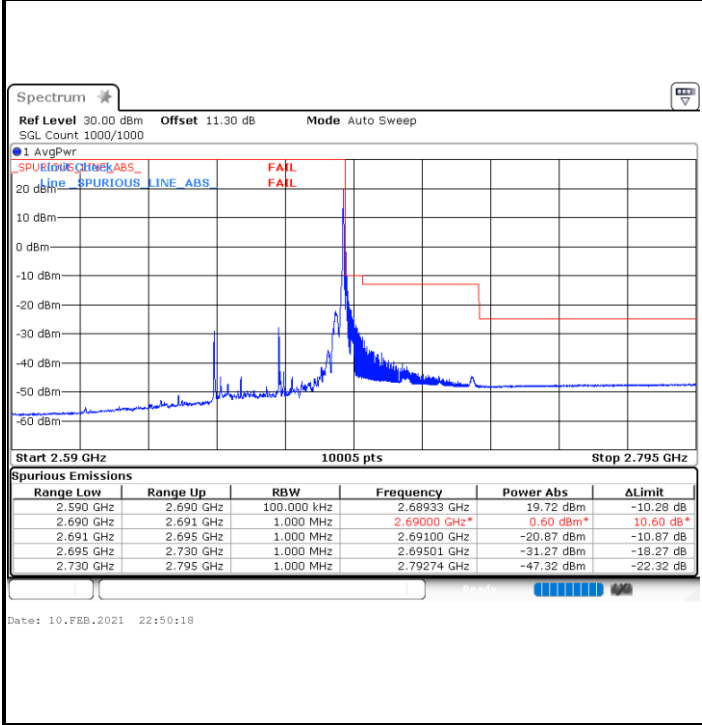


Date: 20.JAN.2021 03:25:59

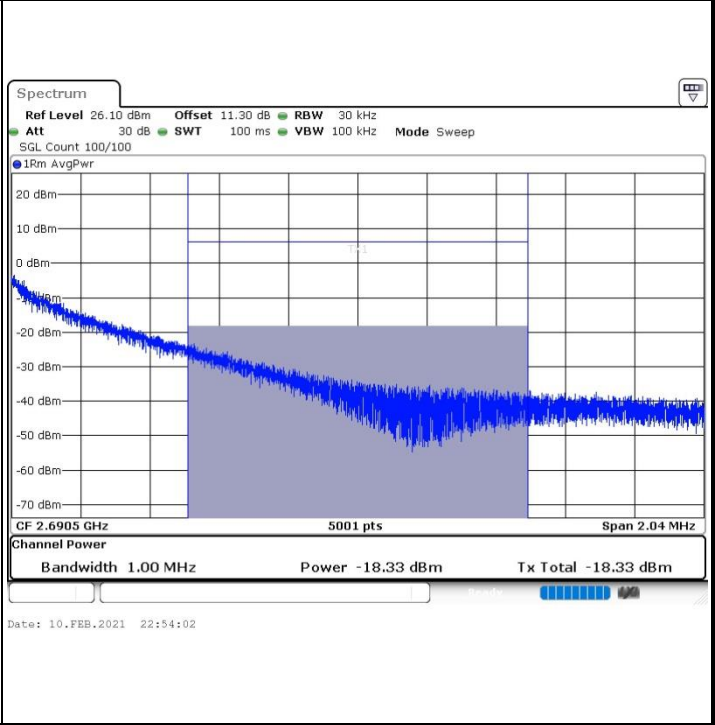


**FR1 n41 / 40MHz / DFT-S OFDM BPSK**

**Highest Band Edge / 1 RB**



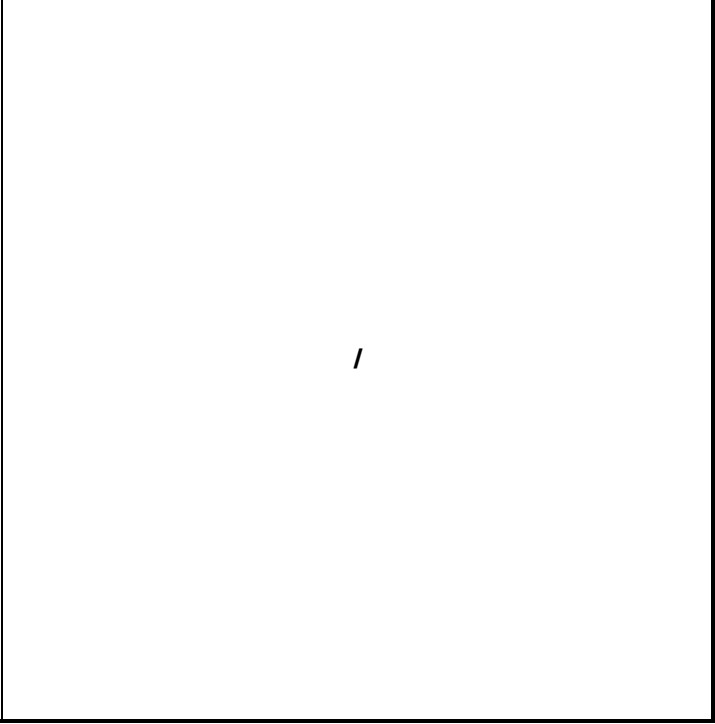
**Channel Power < -10dBm Pass**



**Highest Band Edge / Full RB**



**Channel Power < -10dBm Pass**

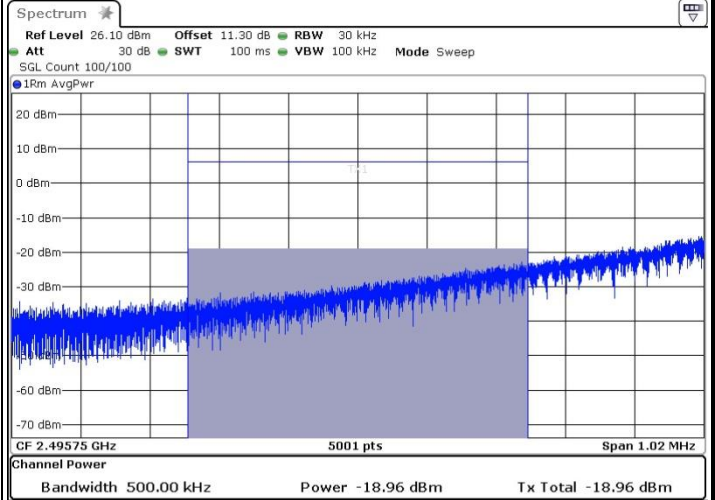
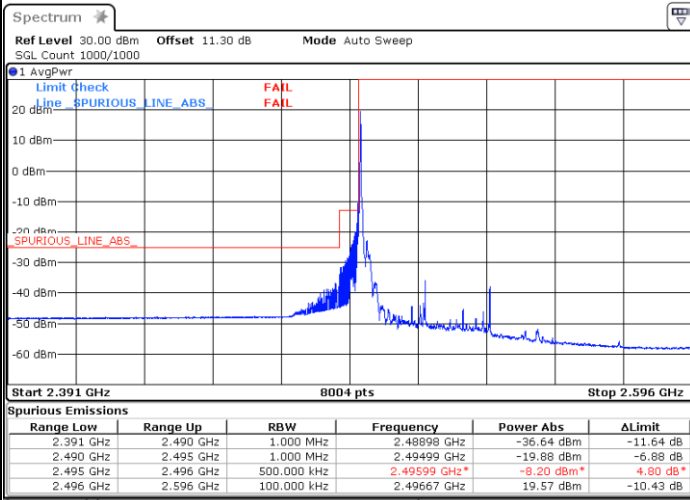




FR1 n41 / 40MHz / DFT-S OFDM QPSK

Lowest Band Edge / 1 RB

Channel Power < -13dBm Pass

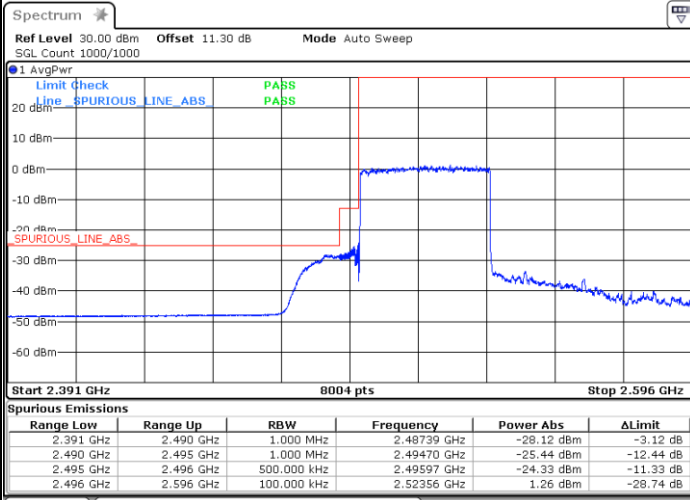


Date: 20.JAN.2021 03:22:29

Date: 20.JAN.2021 03:23:26

Lowest Band Edge / Full RB

Channel Power < -13dBm Pass



Date: 20.JAN.2021 03:28:49

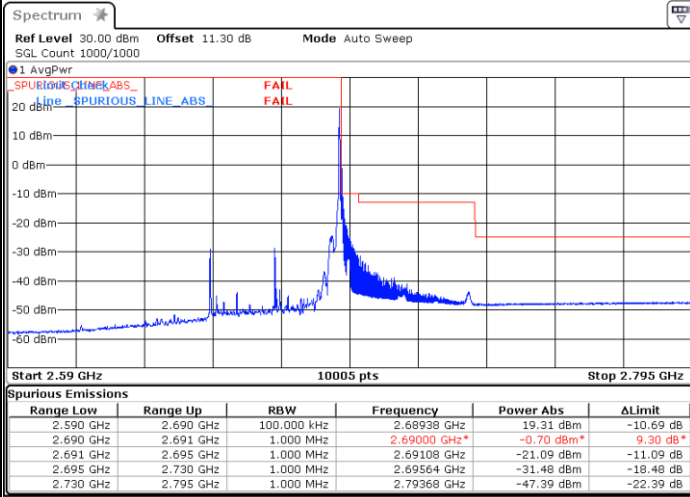
/



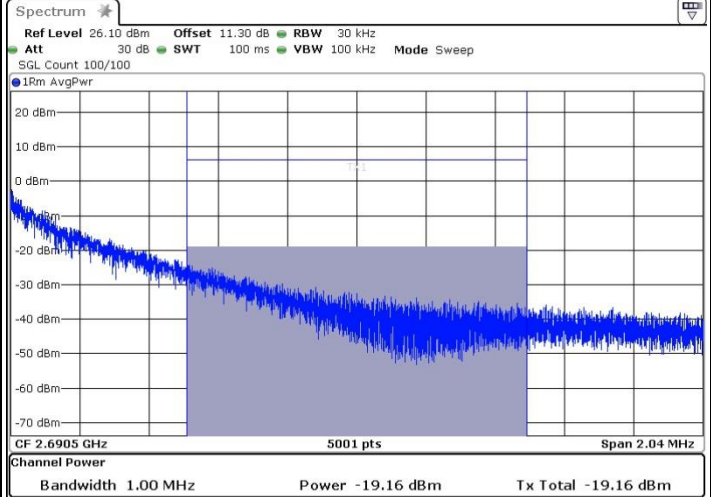
FR1 n41 / 40MHz / DFT-S OFDM QPSK

Highest Band Edge / 1 RB

Channel Power < -10dBm Pass



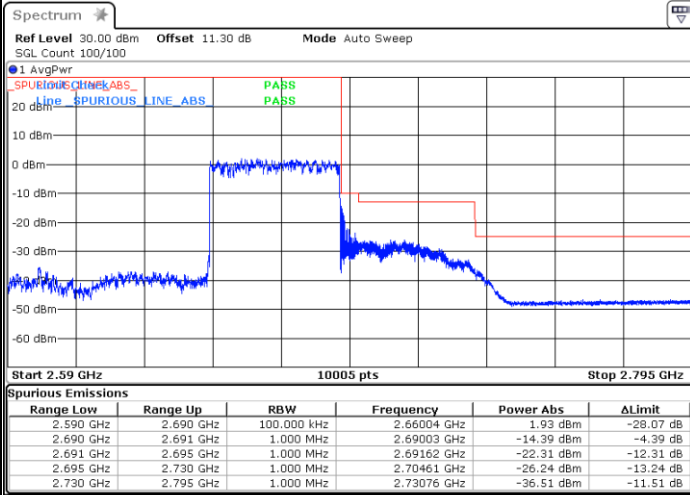
Date: 10.FEB.2021 22:53:05



Date: 10.FEB.2021 22:53:38

Highest Band Edge / Full RB

Channel Power < -10dBm Pass



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

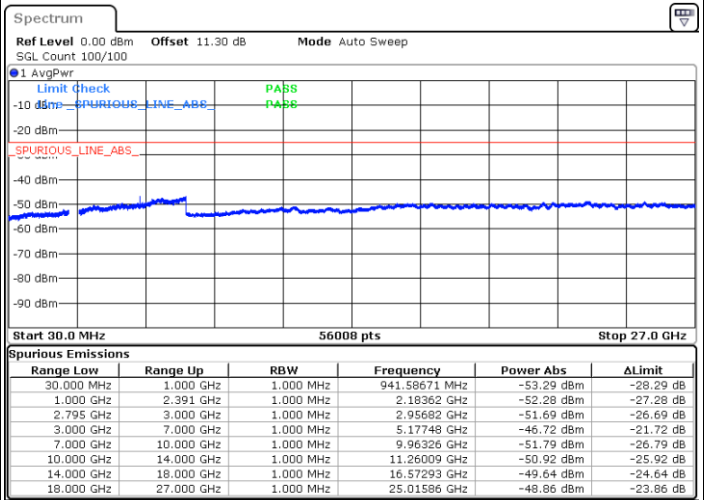
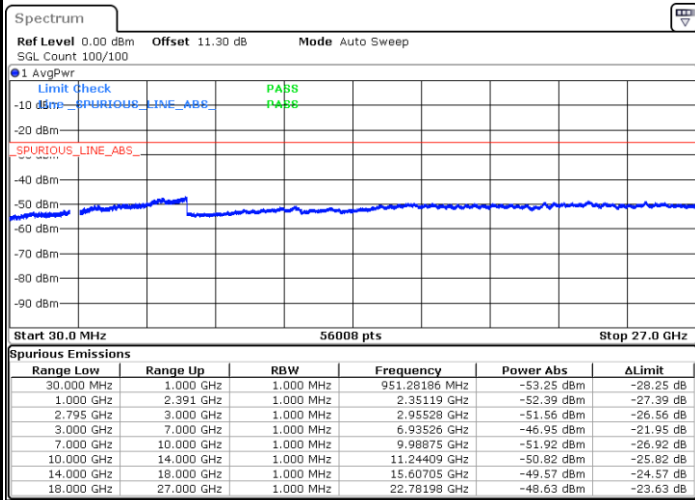


# Conducted Spurious Emission

FR1 n41 / 10MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB

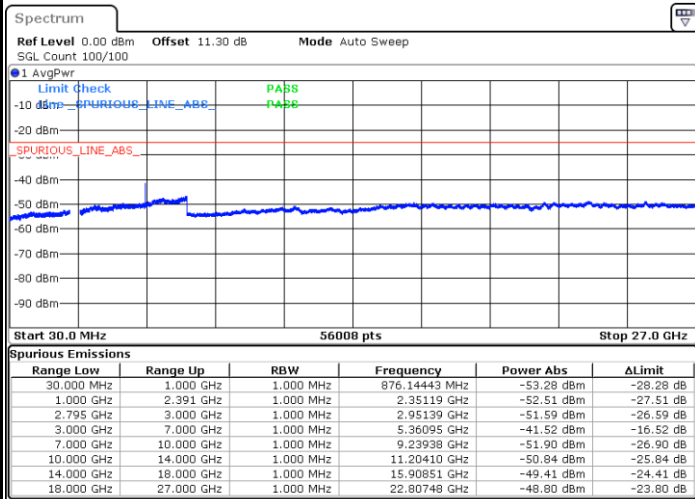
Middle Channel / 1RB



Date: 20.JAN.2021 05:03:29

Date: 20.JAN.2021 05:08:17

Highest Channel / 1RB



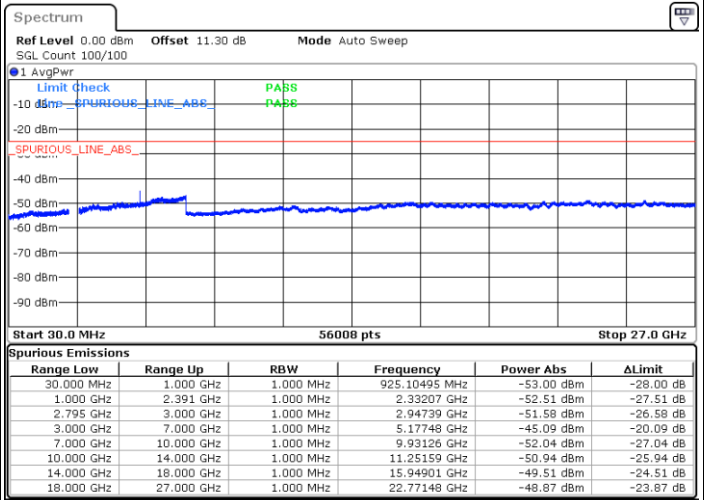
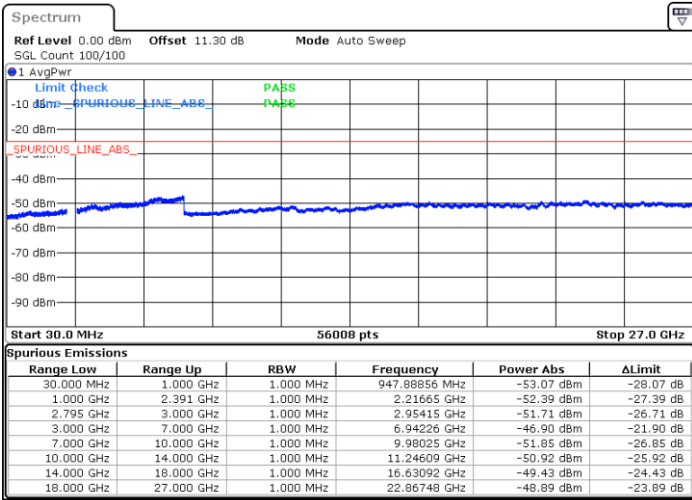
Date: 20.JAN.2021 05:15:29



FR1 n41 / 10MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB

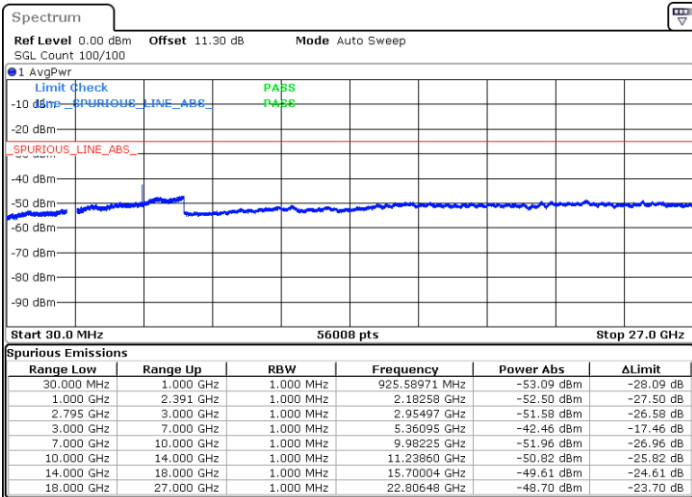
Middle Channel / 1RB



Date: 20.JAN.2021 05:01:32

Date: 20.JAN.2021 05:09:56

Highest Channel / 1RB



Date: 20.JAN.2021 05:13:20

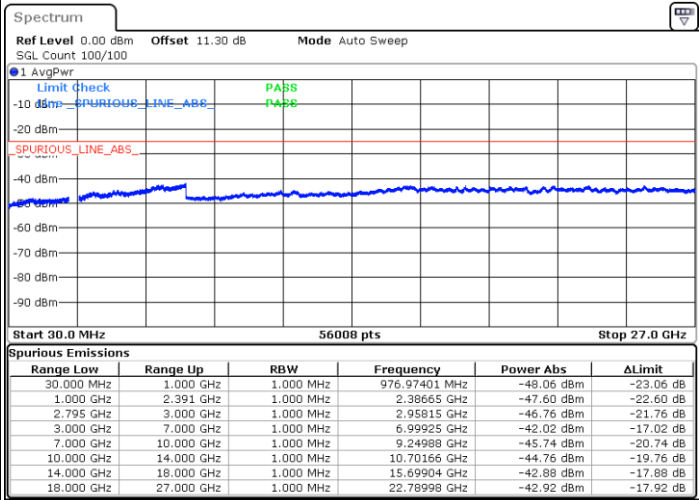
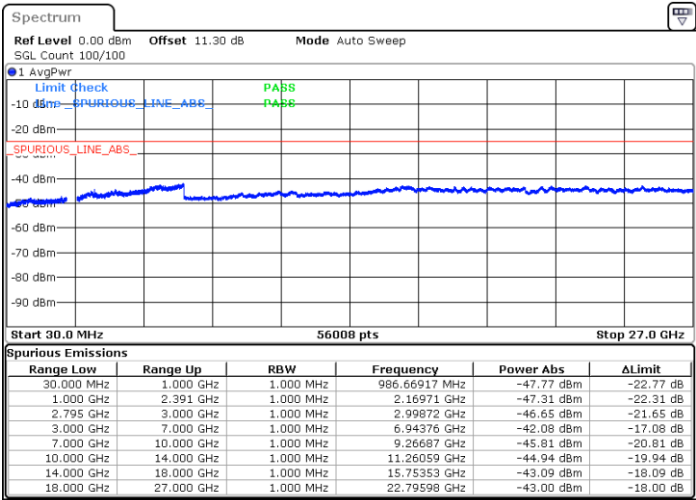




FR1 n41 / 15MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB

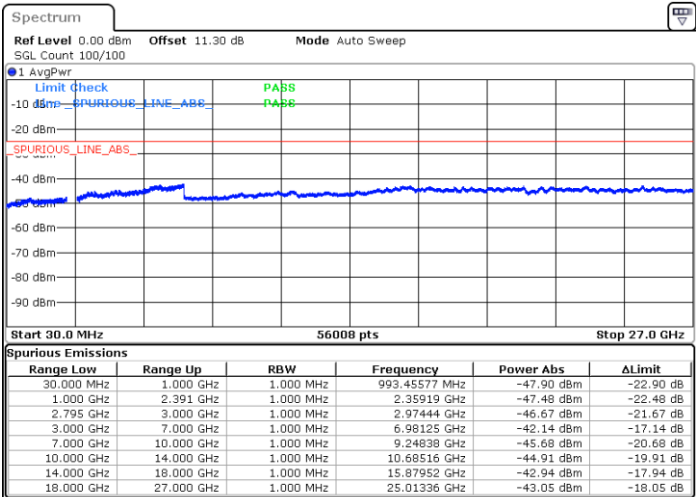
Middle Channel / 1RB



Date: 20.JAN.2021 03:40:05

Date: 20.JAN.2021 03:52:51

Highest Channel / 1RB



Date: 20.JAN.2021 03:58:36