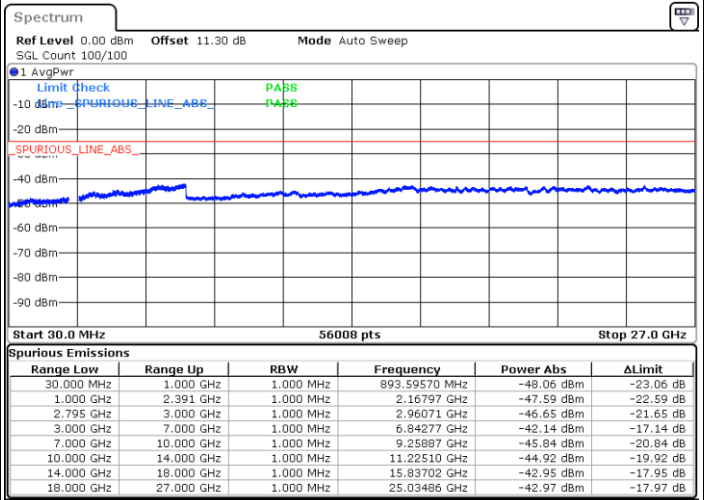
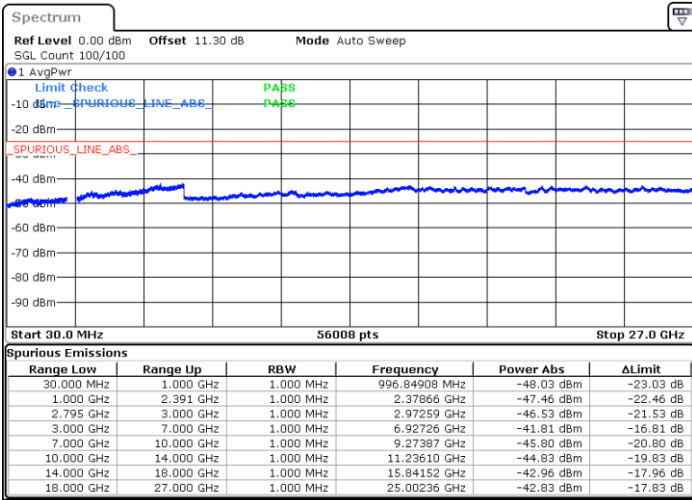




FR1 n41 / 15MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB

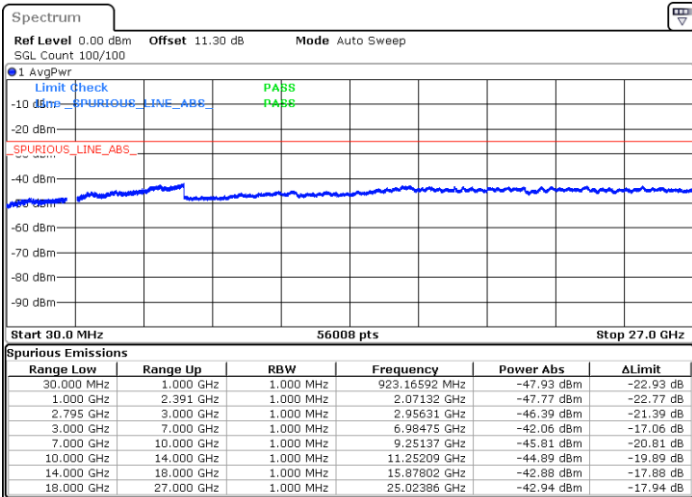
Middle Channel / 1RB



Date: 20.JAN.2021 03:41:50

Date: 20.JAN.2021 03:44:48

Highest Channel / 1RB



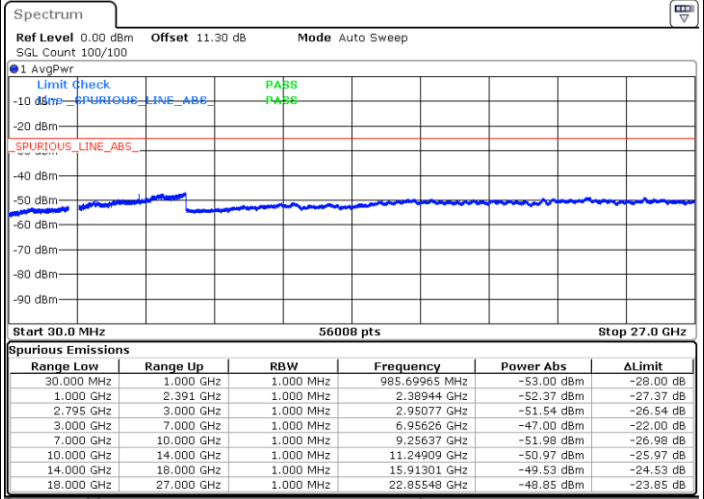
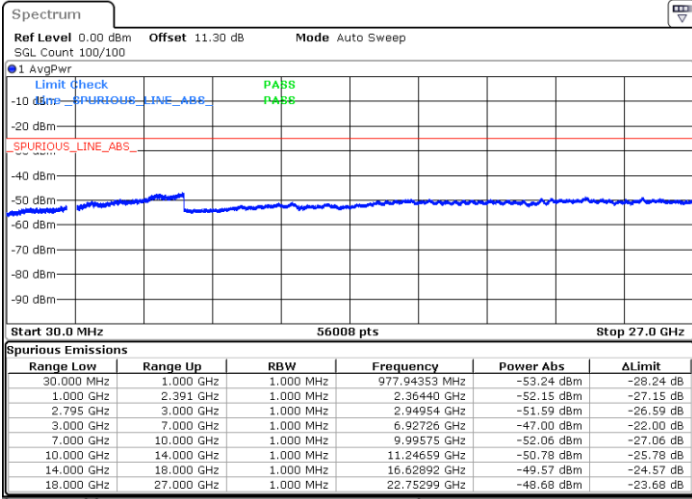
Date: 20.JAN.2021 04:00:30



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

Lowest Channel / 1RB

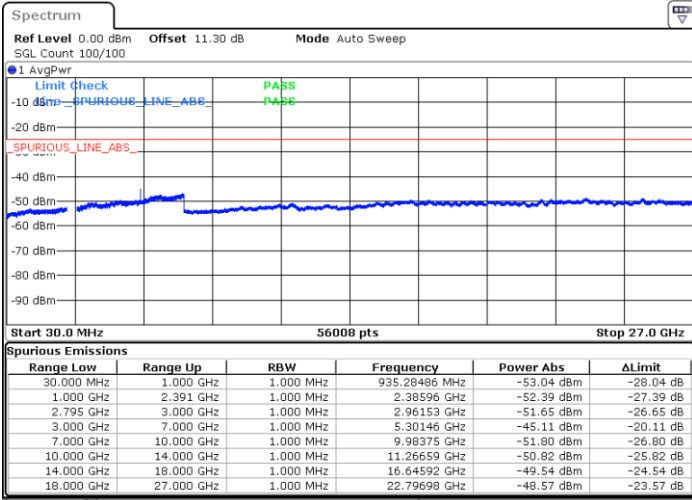
Middle Channel / 1RB



Date: 20.JAN.2021 02:25:34

Date: 20.JAN.2021 02:27:51

Highest Channel / 1RB



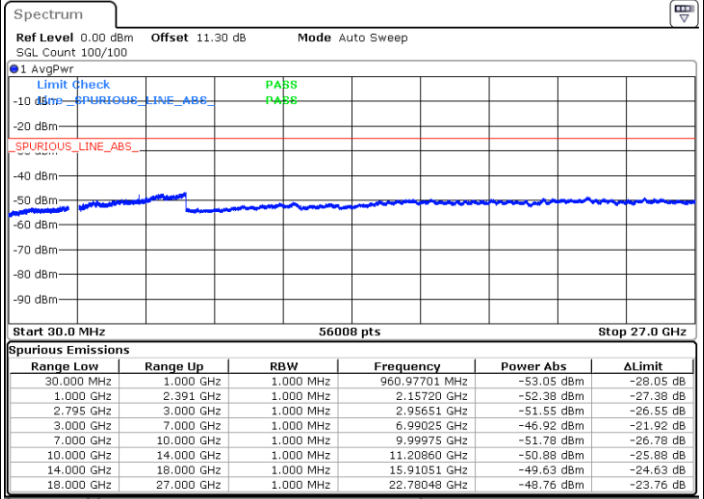
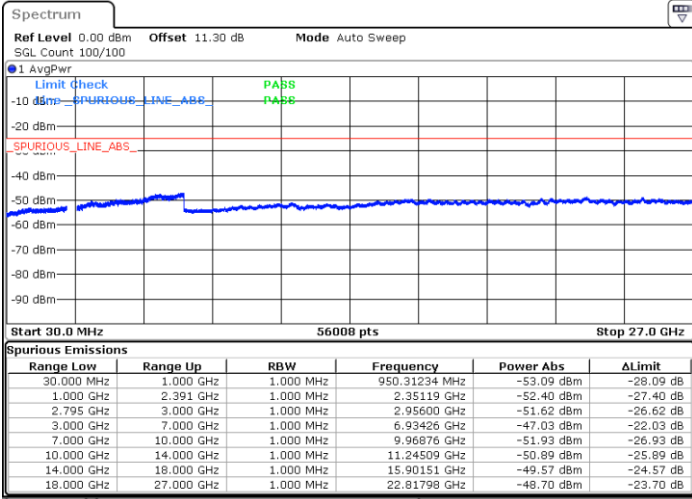
Date: 20.JAN.2021 02:36:52



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

Lowest Channel / 1RB

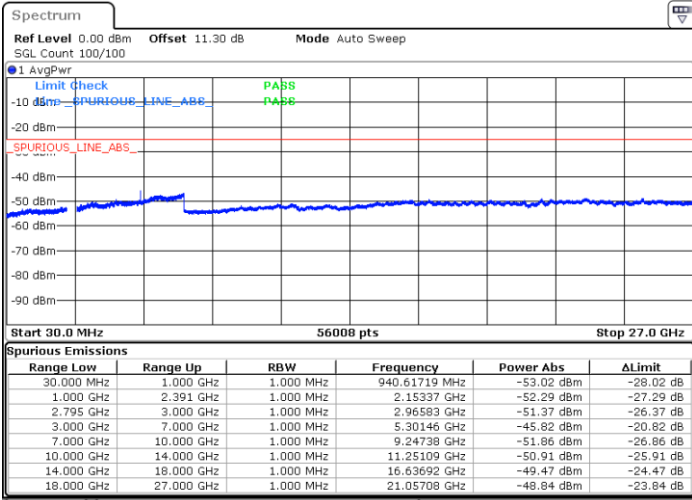
Middle Channel / 1RB



Date: 20.JAN.2021 02:22:39

Date: 20.JAN.2021 02:30:27

Highest Channel / 1RB



Date: 20.JAN.2021 02:35:15



### Frequency Stability

Test Conditions		NR n41 (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Within Band
		Deviation (ppm)	Result
50	Normal Voltage	0.0022	PASS
40	Normal Voltage	0.0017	
30	Normal Voltage	0.0012	
20(Ref.)	Normal Voltage	0.0025	
10	Normal Voltage	0.0013	
0	Normal Voltage	0.0012	
-10	Normal Voltage	0.0018	
-20	Normal Voltage	0.0025	
-30	Normal Voltage	0.0017	
20	Maximum Voltage	0.0019	
20	Normal Voltage	0.0013	
20	Battery End Point	0.0031	

**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 30K

### 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	3.62	6.12	6.38	5.33	<b>PASS</b>
Middle CH	6.78	6.09	5.83	5.16	
Highest CH	3.57	3.77	6.26	5.45	



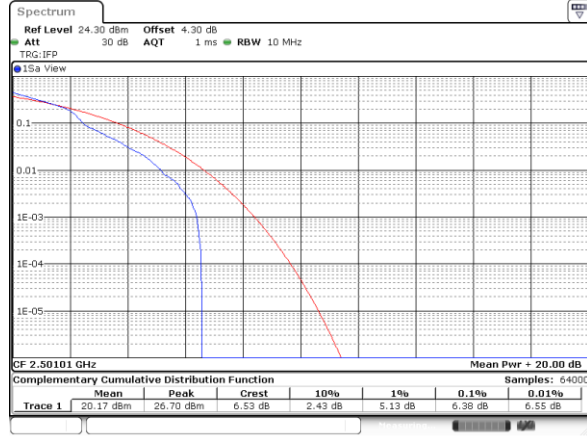
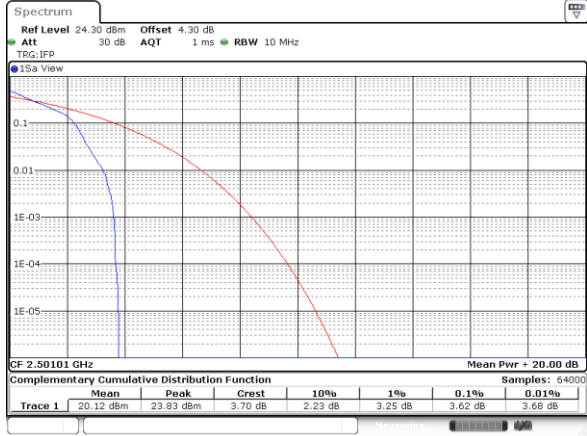
FR1 n41 / 10MHz / DFT-S OFDM

PI/2 BPSK

QPSK

Lowest Channel / 1RB

Lowest Channel / 1RB

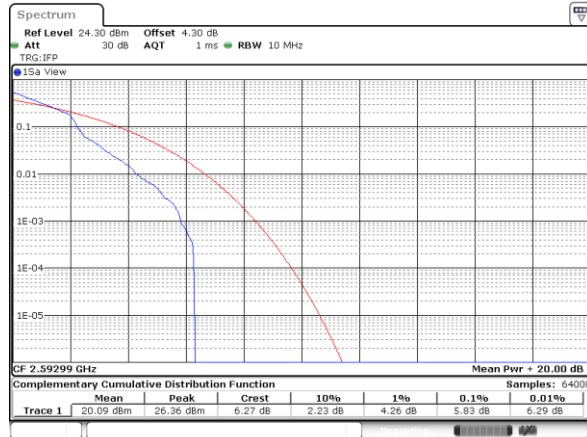
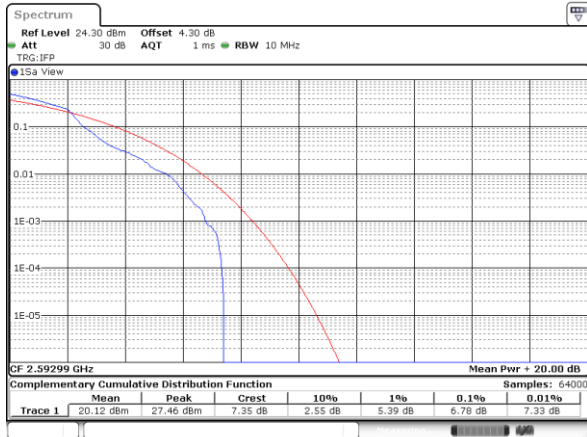


Date: 10\_FEB.2021 21:53:41

Date: 10\_FEB.2021 21:54:30

Middle Channel / 1 RB

Middle Channel / 1 RB

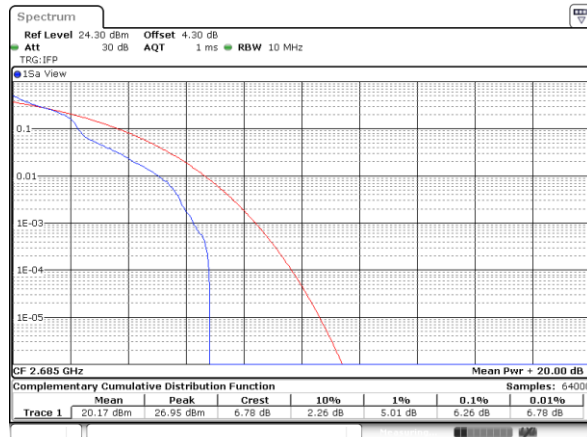
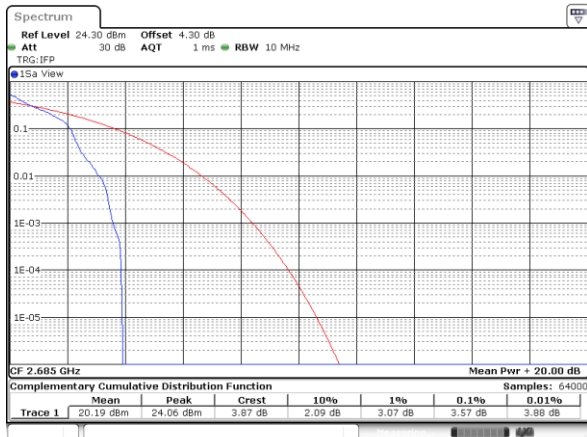


Date: 22\_JAN.2021 00:46:09

Date: 22\_JAN.2021 00:46:29

Highest Channel / 1 RB

Highest Channel / 1 RB



Date: 22\_JAN.2021 01:05:38

Date: 22\_JAN.2021 01:06:03



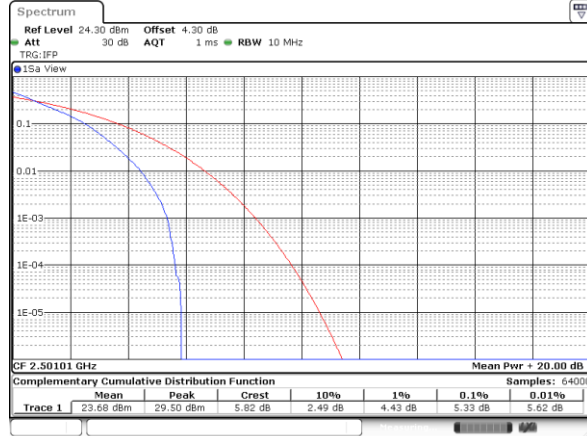
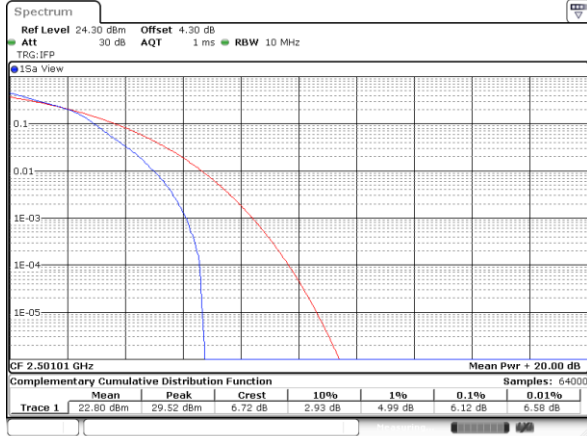
FR1 n41 / 10MHz / DFT-S OFDM

PI/2 BPSK

QPSK

Lowest Channel / Full RB

Lowest Channel / Full RB

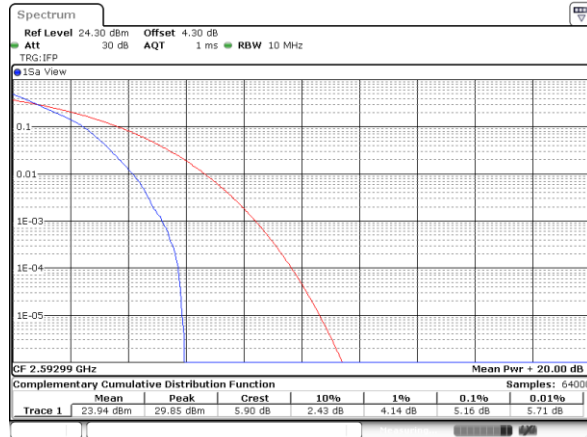
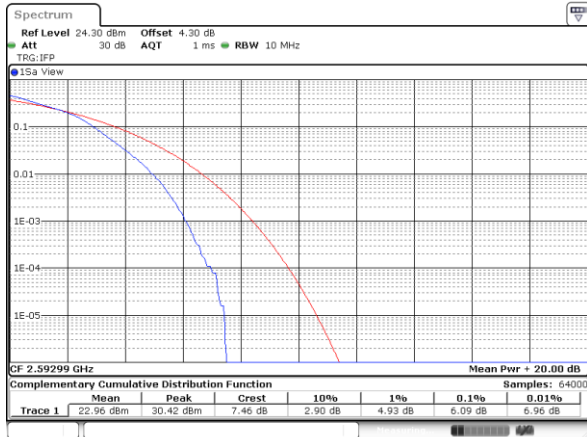


Date: 22\_JAN\_2021 00:48:57

Date: 22\_JAN\_2021 00:49:39

Middle Channel / Full RB

Middle Channel / Full RB

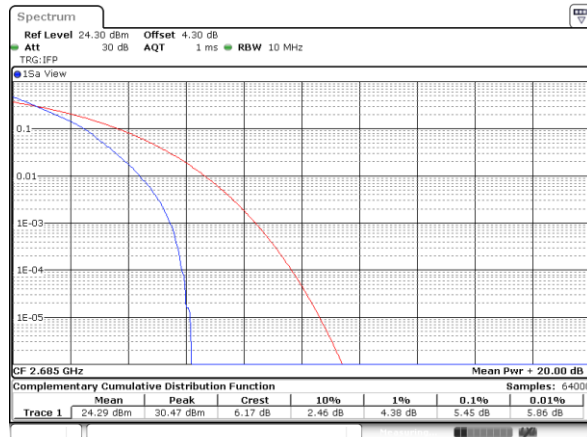
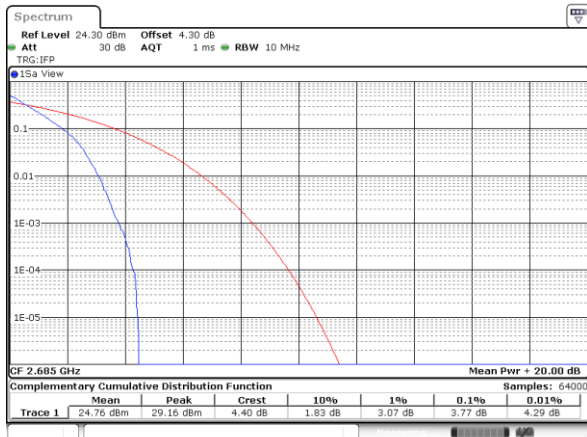


Date: 22\_JAN\_2021 00:45:34

Date: 22\_JAN\_2021 00:42:51

Highest Channel / Full RB

Highest Channel / Full RB



Date: 22\_JAN\_2021 01:07:00

Date: 22\_JAN\_2021 01:06:36



26dB Bandwidth

Mode	FR1 n41 : 26dB BW(MHz) / CP-OFDM							
BW	10MHz	10MHz	10MHz	10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	9.05	9.25	9.13	9.19				

Mode	FR1 n41 : 26dB BW(MHz) / CP-OFDM							
BW	15MHz	15MHz	15MHz	15MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	14.42	14.36	14.42	14.54				

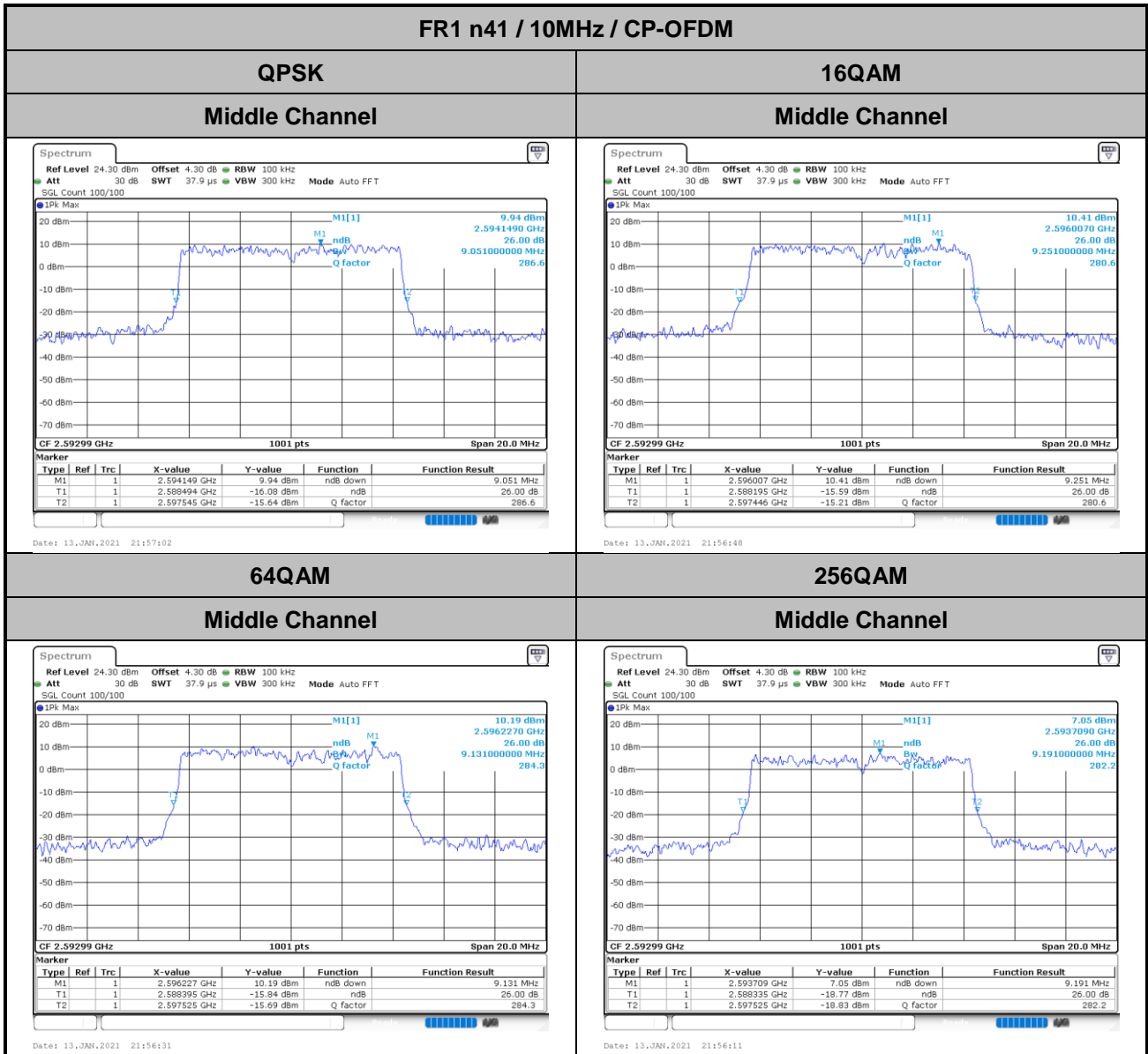
Mode	FR1 n41 : 26dB BW(MHz) / CP-OFDM							
BW	30MHz	30MHz	30MHz	30MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	28.89	28.83	28.77	28.77				

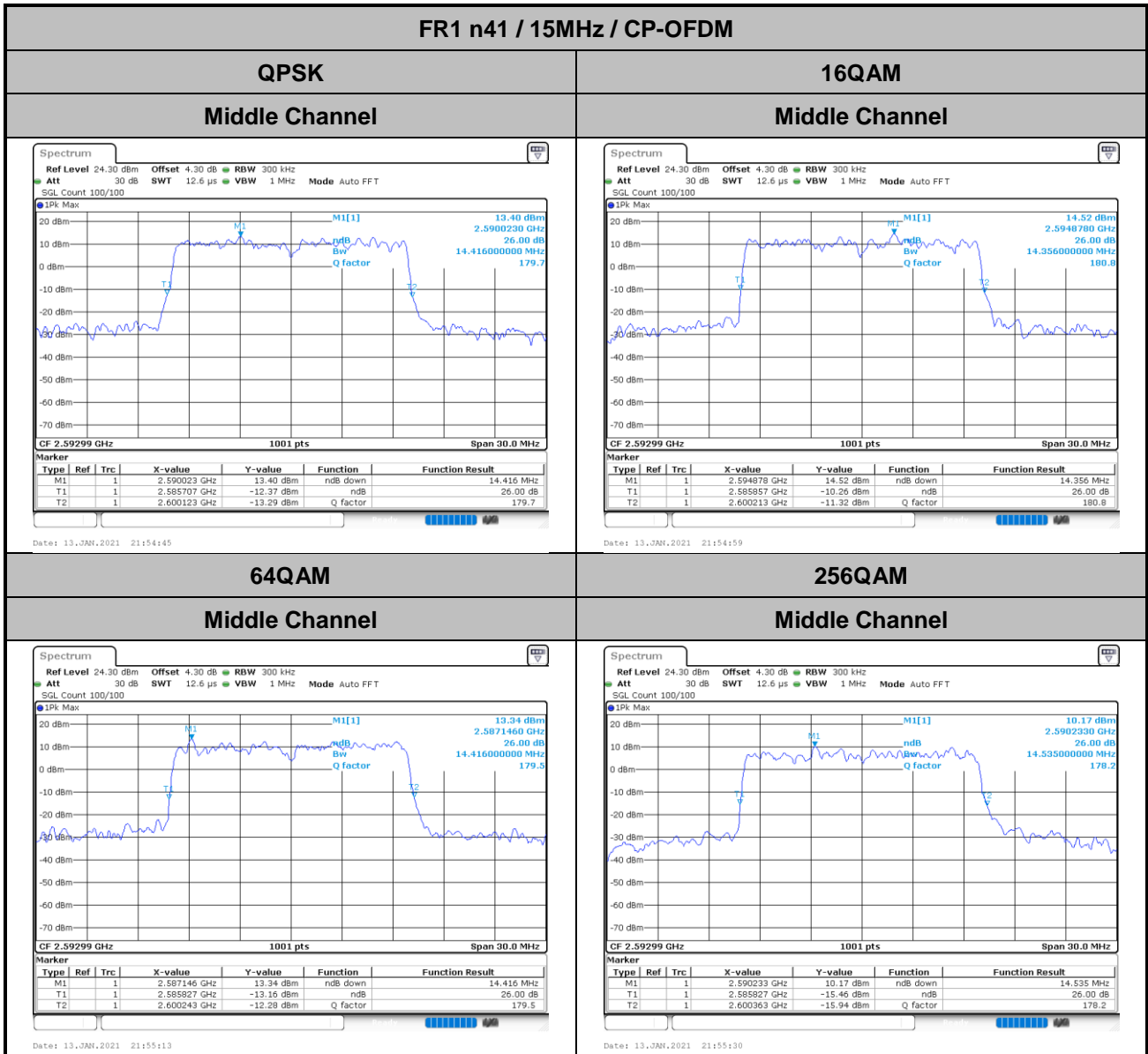
Mode	FR1 n41 : 26dB BW(MHz) / CP-OFDM							
BW	40MHz	40MHz	40MHz	40MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	40.28	40.36	40.28	40.51				

Mode	FR1 n41 : 26dB BW(MHz) / CP-OFDM							
BW	50MHz	50MHz	50MHz	50MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	49.65	49.75	49.65	49.65				

Mode	FR1 n41 : 26dB BW(MHz) / CP-OFDM							
BW	80MHz	80MHz	80MHz	80MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	79.92	79.92	79.92	79.92				









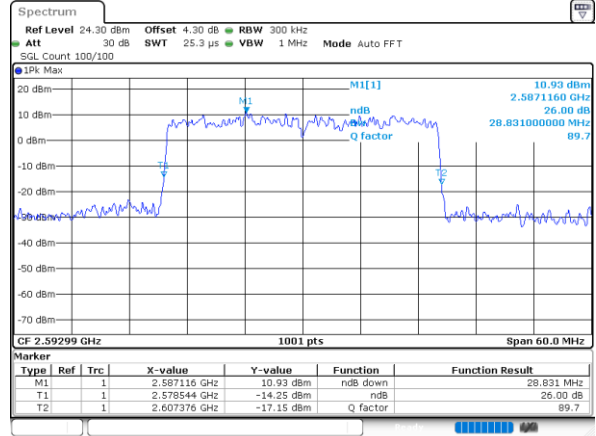
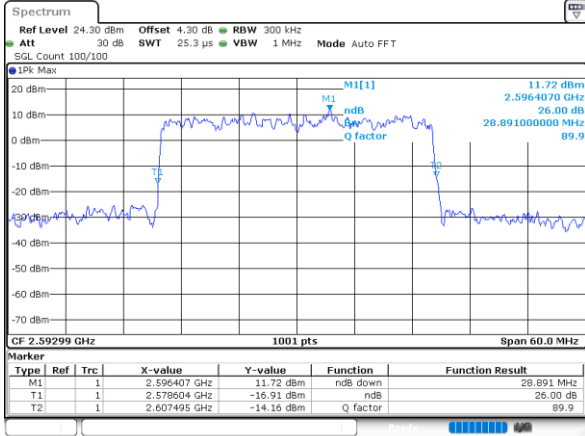
FR1 n41 / 30MHz / CP-OFDM

QPSK

16QAM

Middle Channel

Middle Channel



Date: 13.JAN.2021 21:53:58

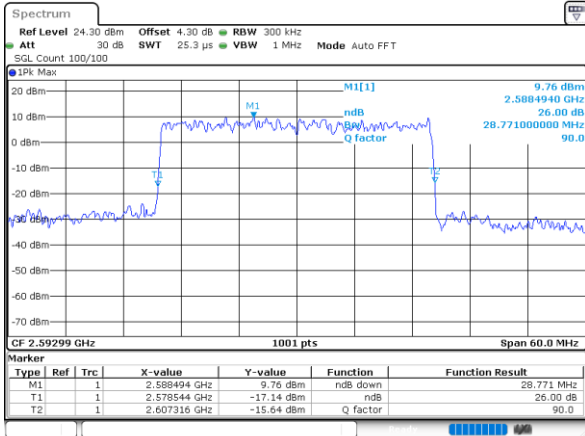
Date: 13.JAN.2021 21:53:31

64QAM

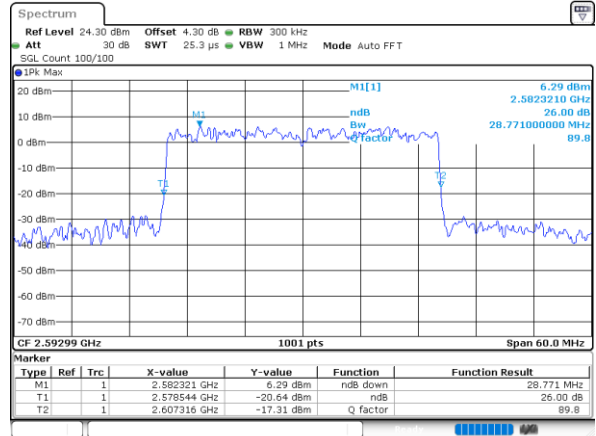
256QAM

Middle Channel

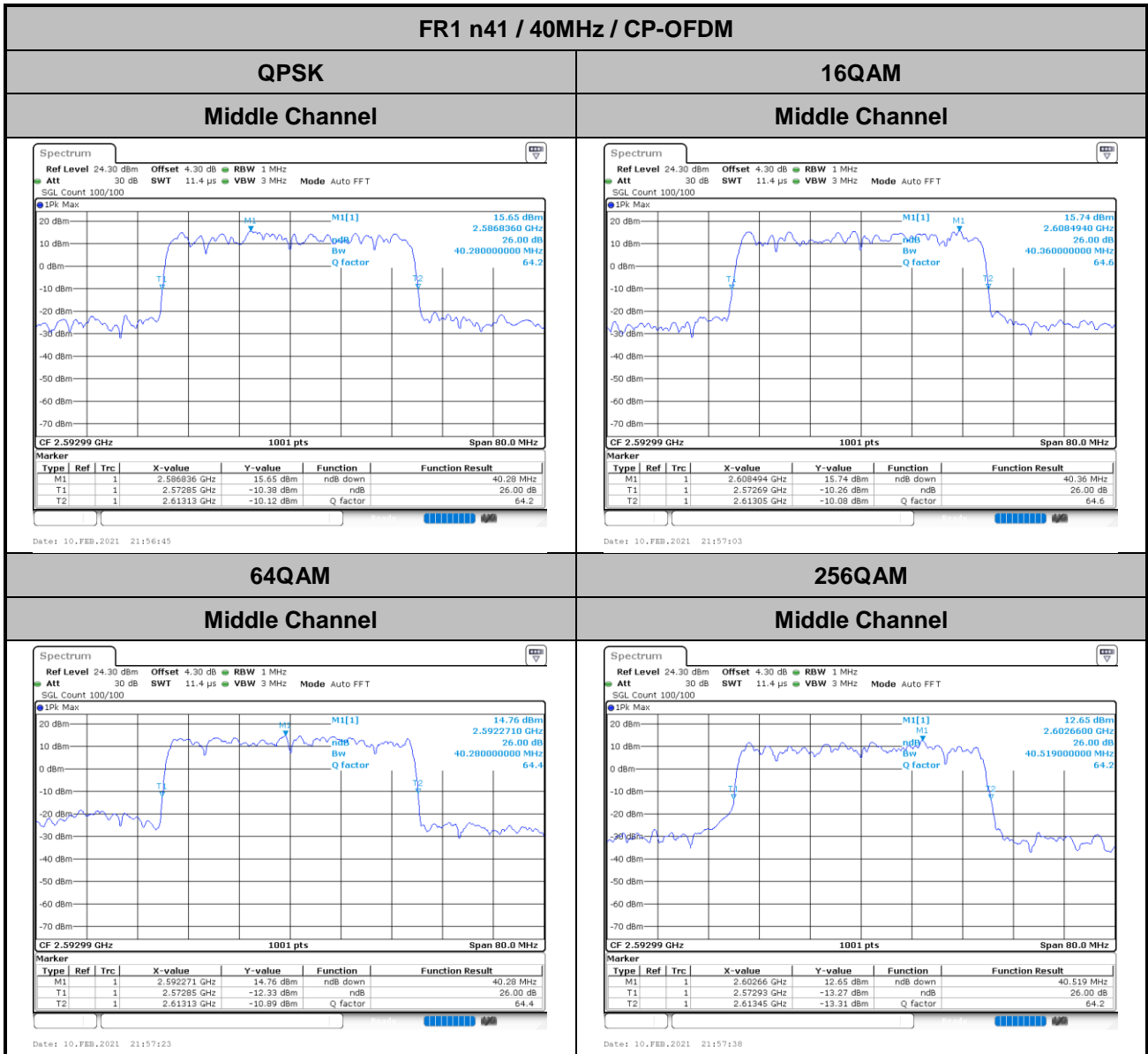
Middle Channel

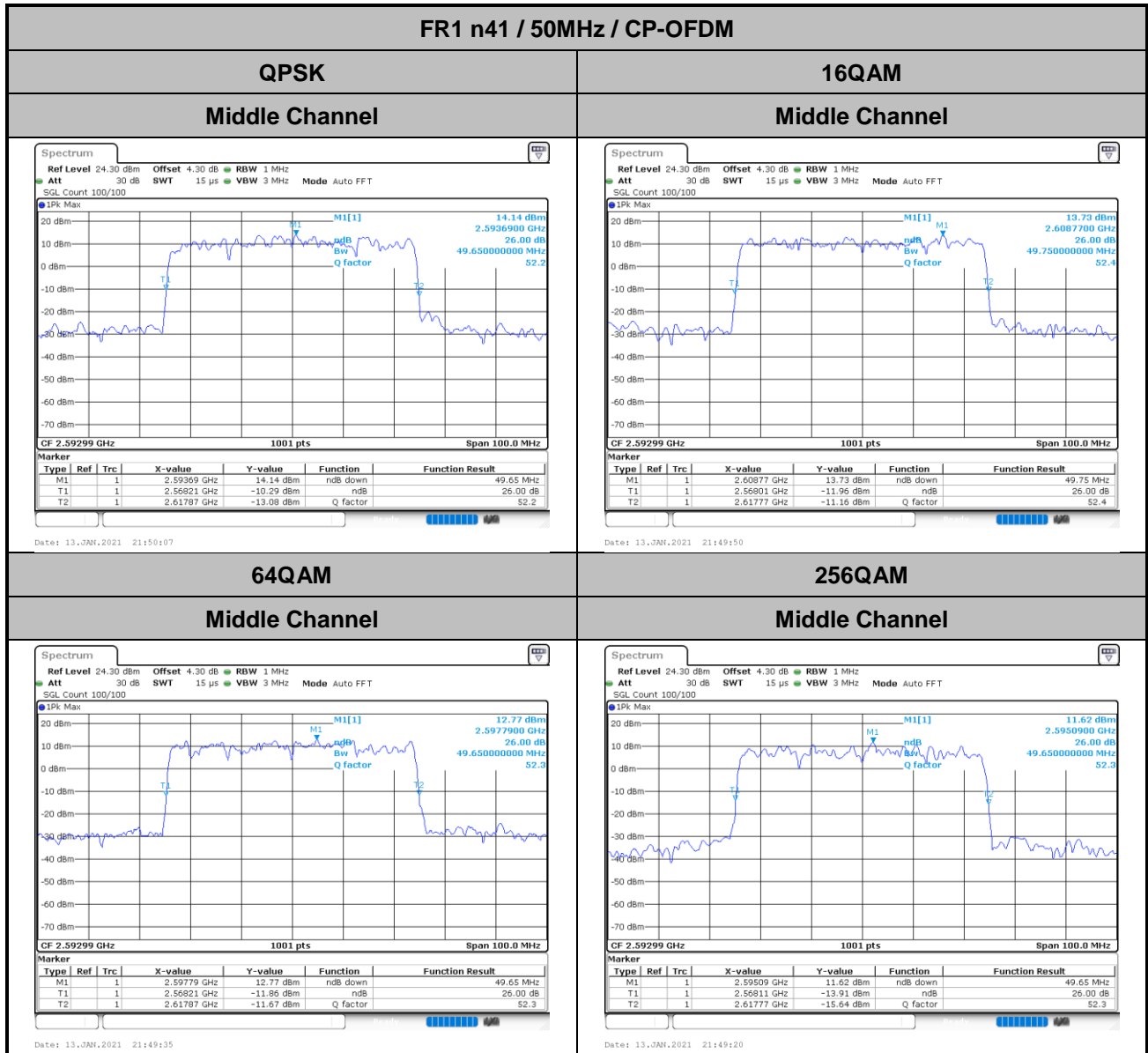


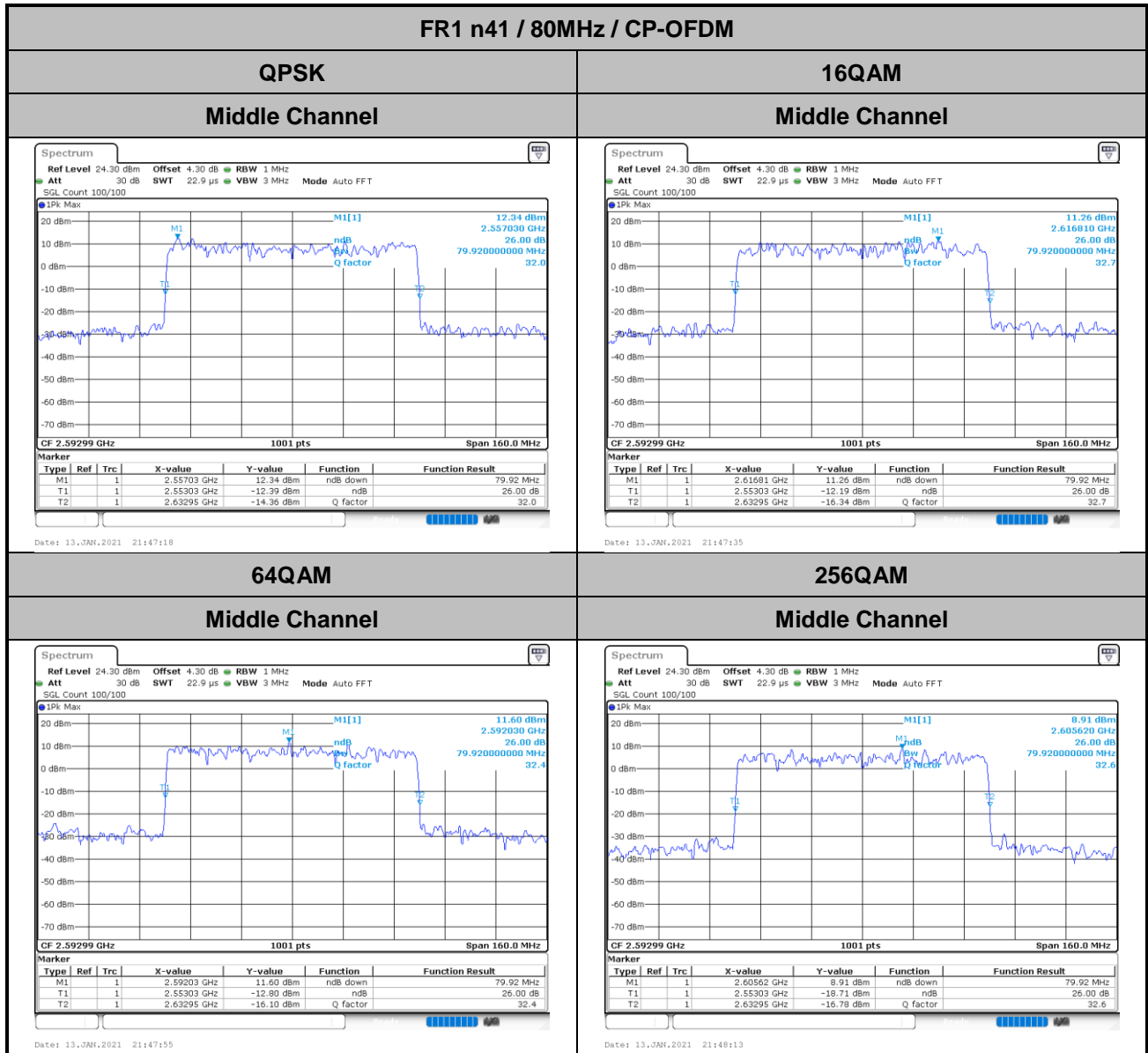
Date: 13.JAN.2021 21:53:06



Date: 13.JAN.2021 21:52:40









### Occupied Bandwidth

Mode	FR1 n41 : OBW(MHz) / CP-OFDM							
BW	10MHz	10MHz	10MHz	10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	8.57	8.55	8.59	8.55				

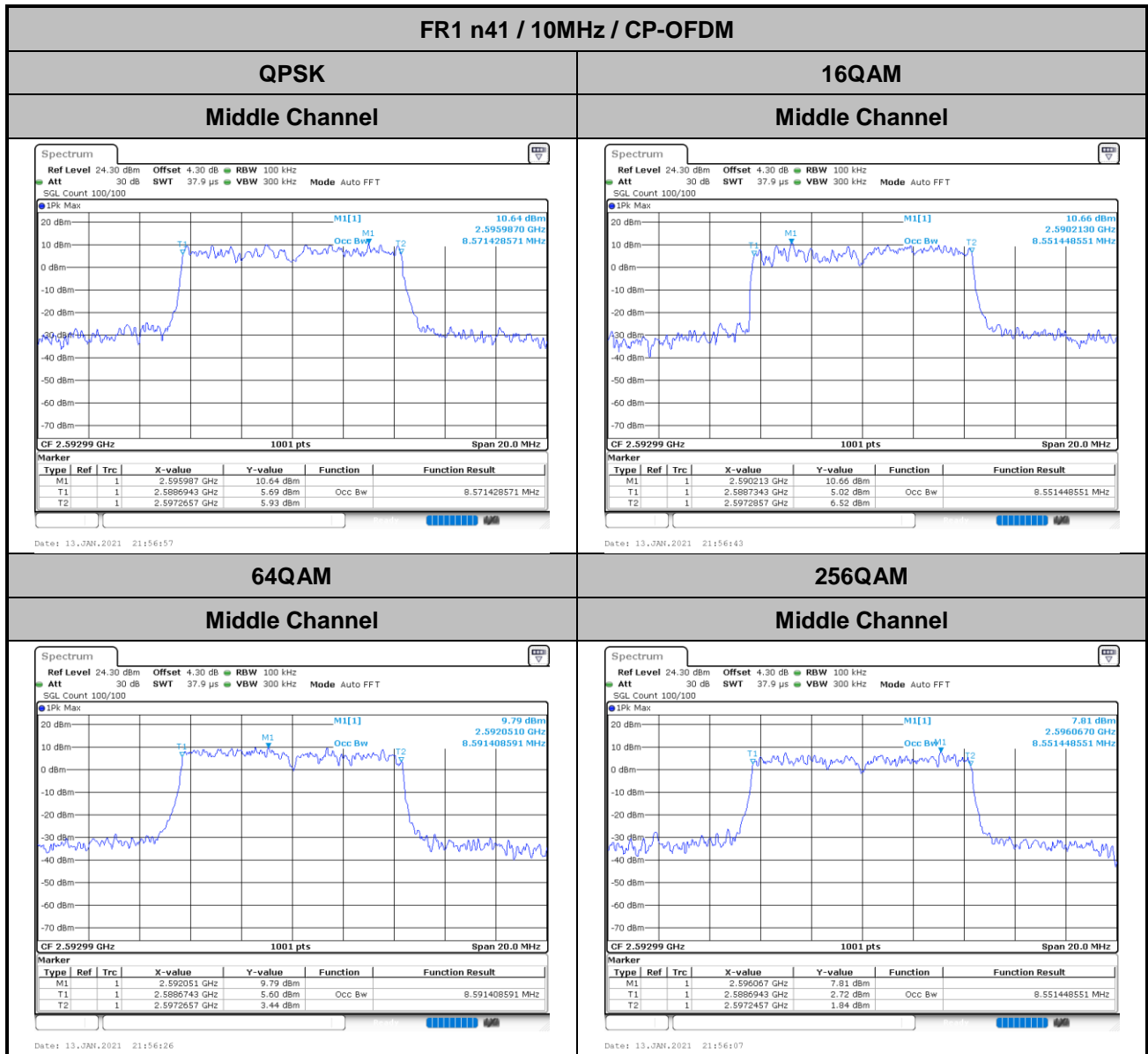
Mode	FR1 n41 : OBW(MHz) / CP-OFDM							
BW	15MHz	15MHz	15MHz	15MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	13.64	13.61	13.61	13.55				

Mode	FR1 n41 : OBW(MHz) / CP-OFDM							
BW	30MHz	30MHz	30MHz	30MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	27.51	27.87	27.63	27.93				

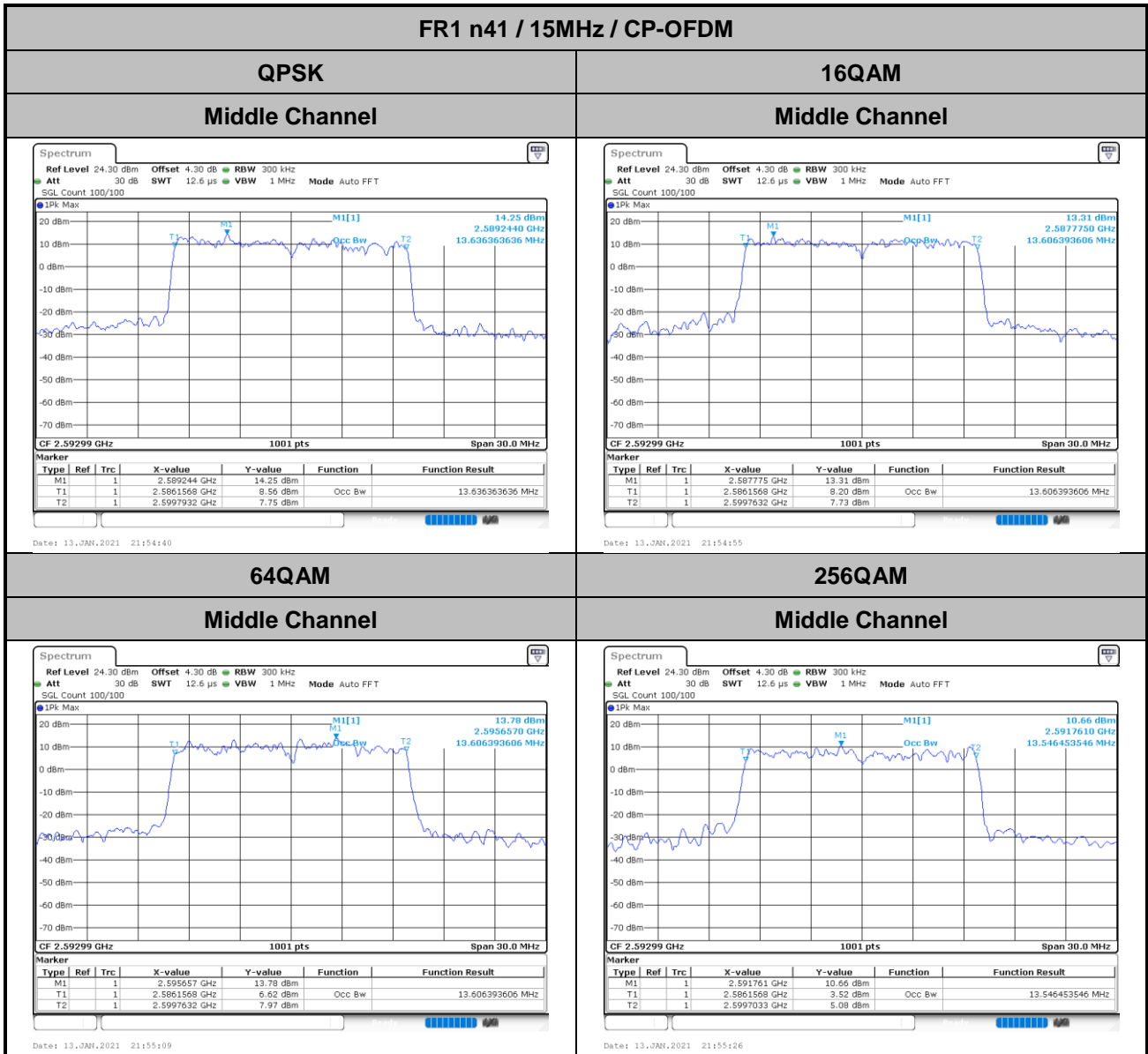
Mode	FR1 n41 : OBW(MHz) / CP-OFDM							
BW	40MHz	40MHz	40MHz	40MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	38.12	37.8	37.88	38.04				

Mode	FR1 n41 : OBW(MHz) / CP-OFDM							
BW	50MHz	50MHz	50MHz	50MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	47.25	47.55	47.35	47.85				

Mode	FR1 n41 : OBW(MHz) / CP-OFDM							
BW	80MHz	80MHz	80MHz	80MHz				
Mod.	QPSK	16QAM	64QAM	256QAM				
Middle CH	77.52	77.84	77.84	77.84				









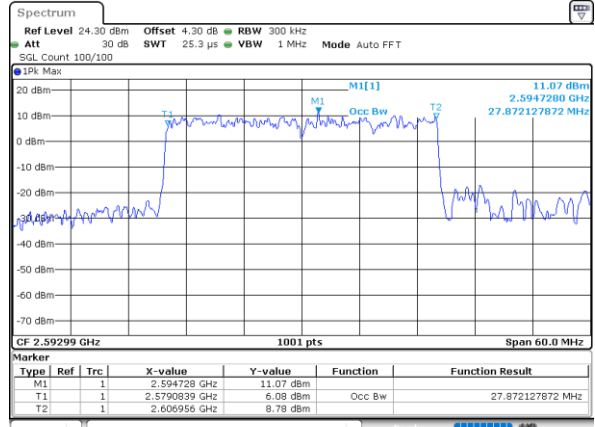
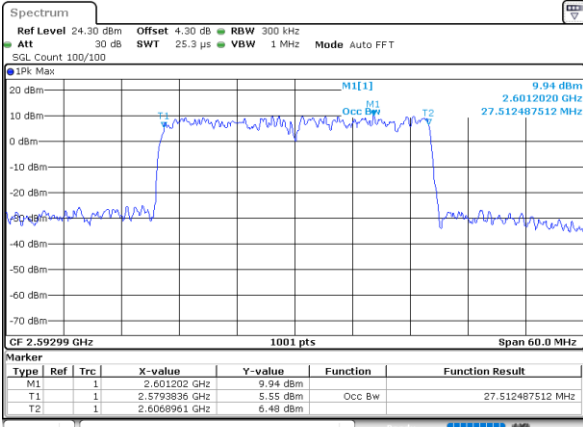
FR1 n41 / 30MHz / CP-OFDM

QPSK

16QAM

Middle Channel

Middle Channel



Date: 13, JAN, 2021 21:53:48

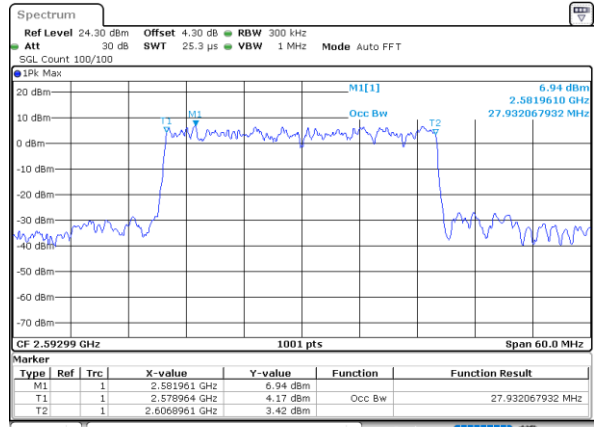
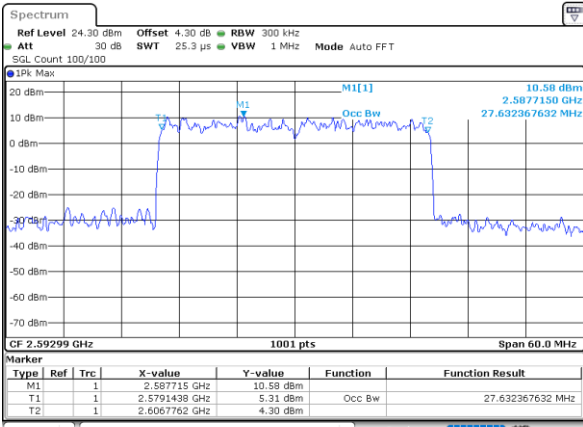
Date: 13, JAN, 2021 21:53:22

64QAM

256QAM

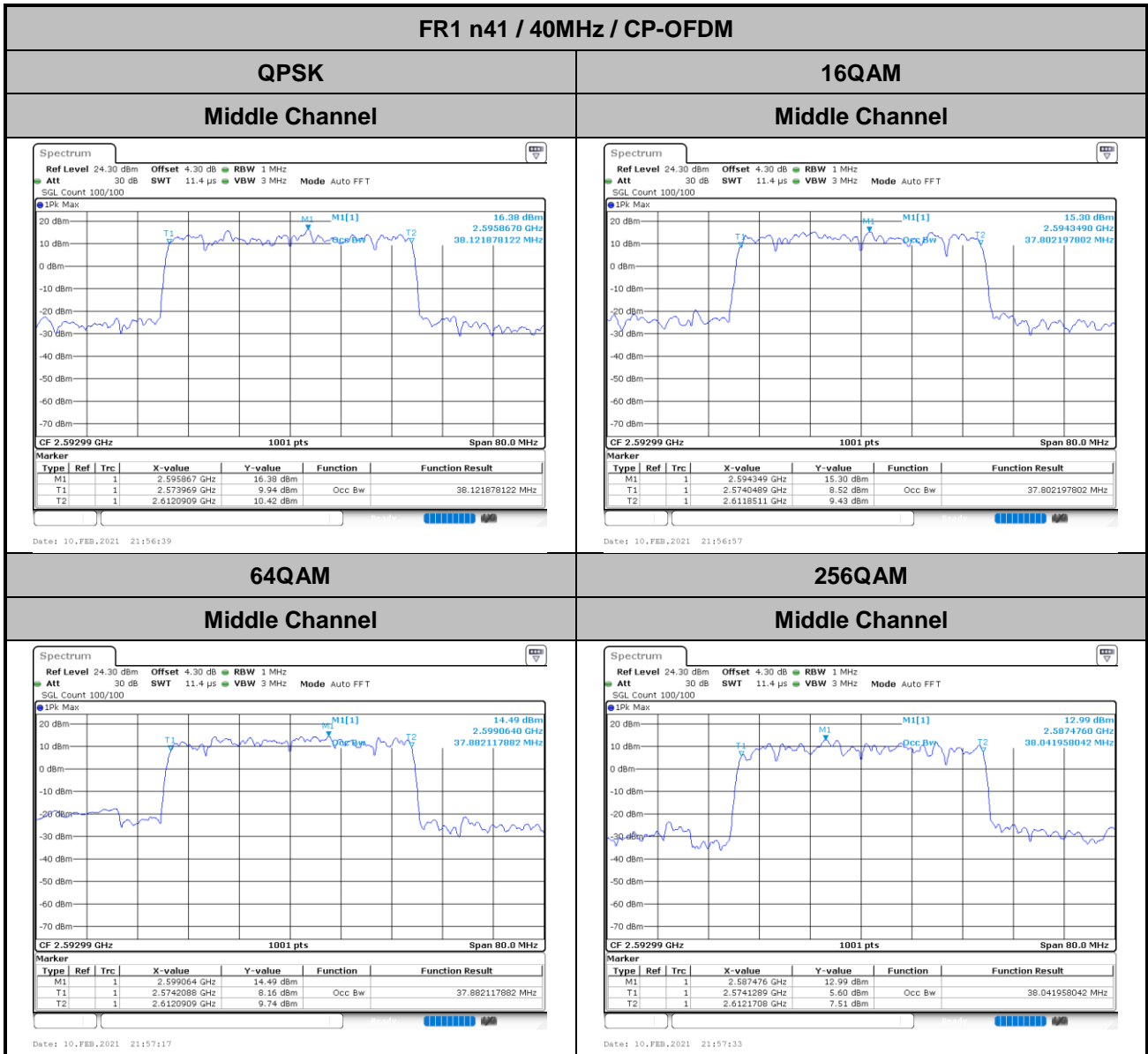
Middle Channel

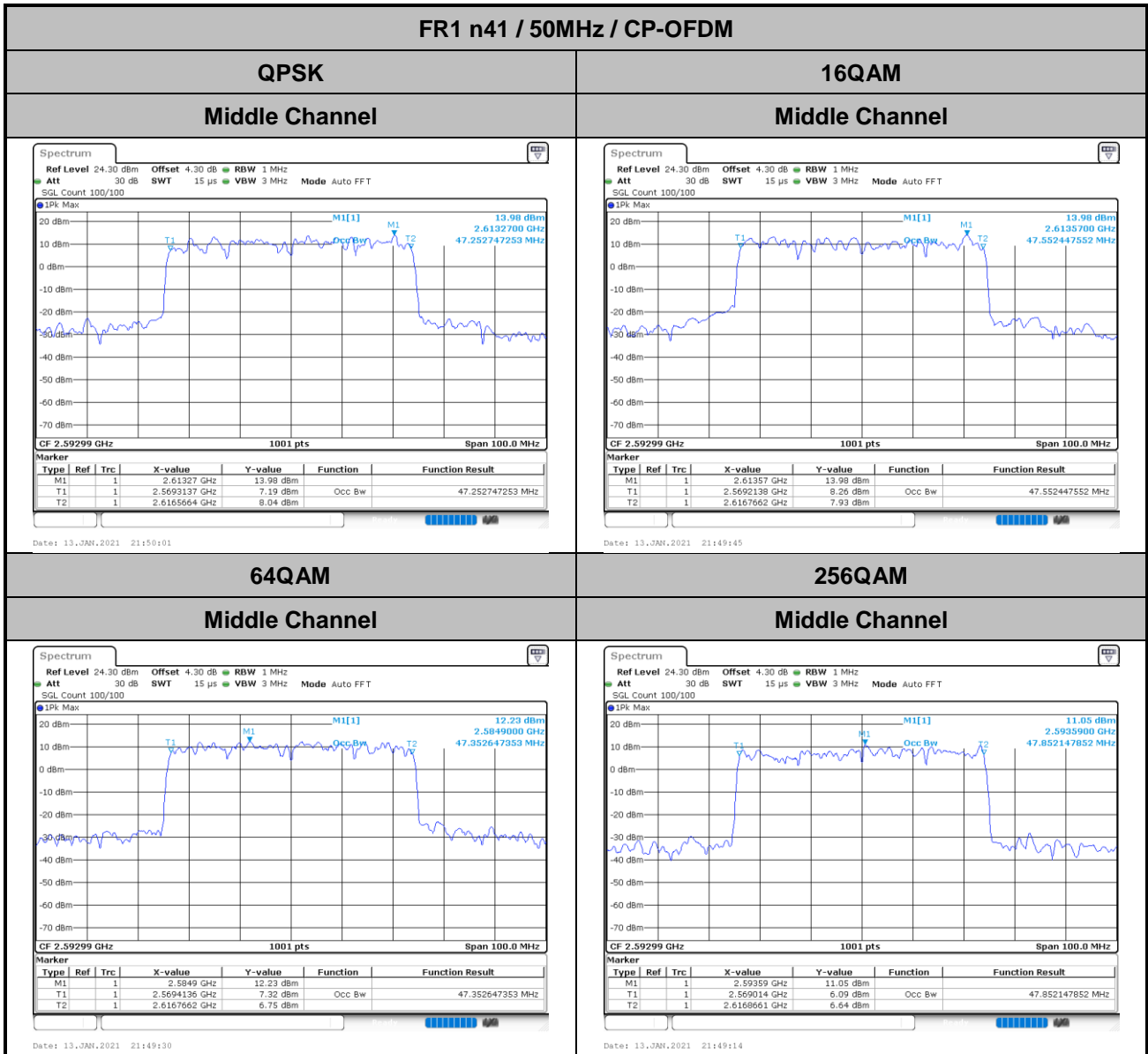
Middle Channel

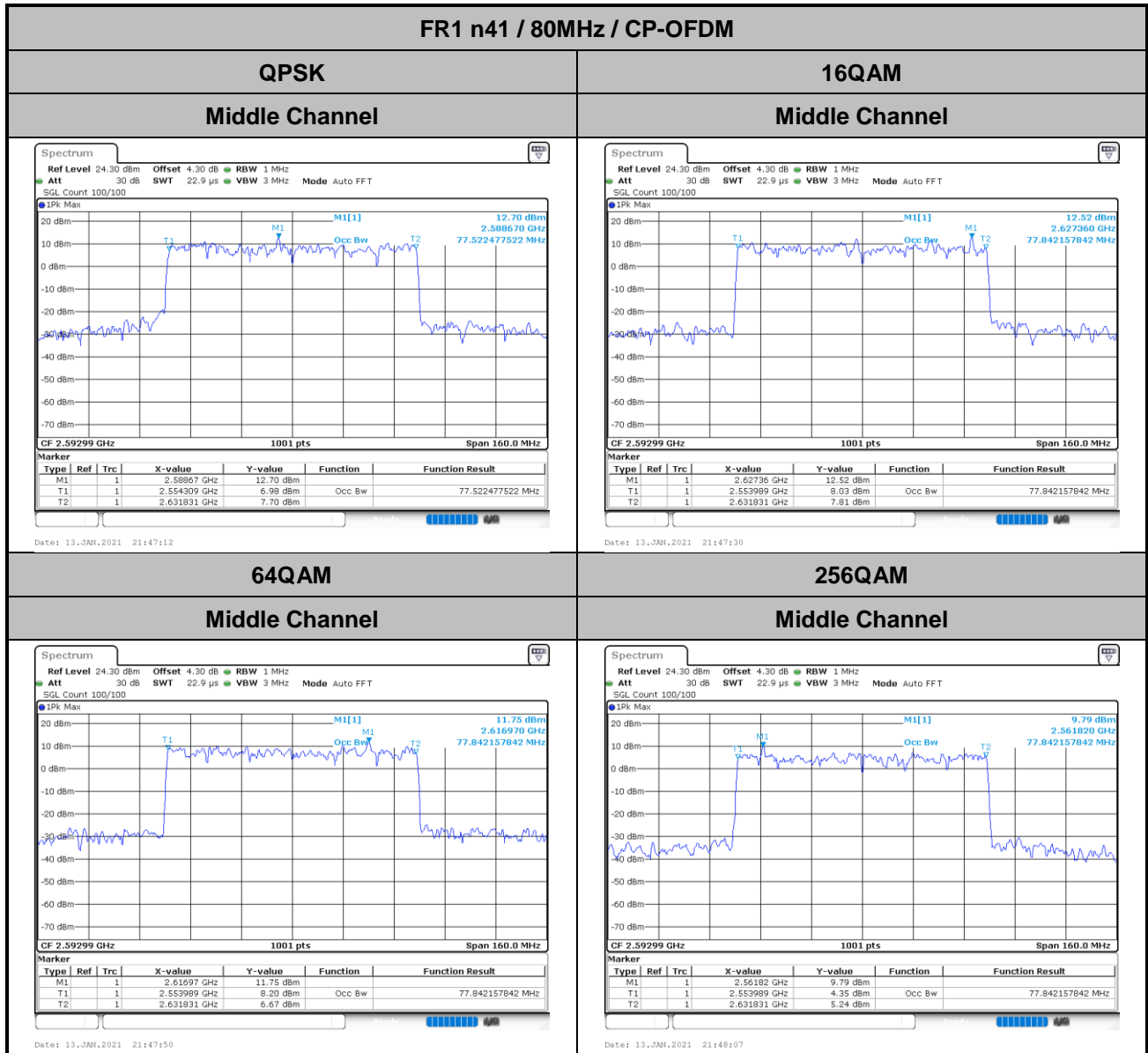


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Date: 13, JAN, 2021 21:52:30

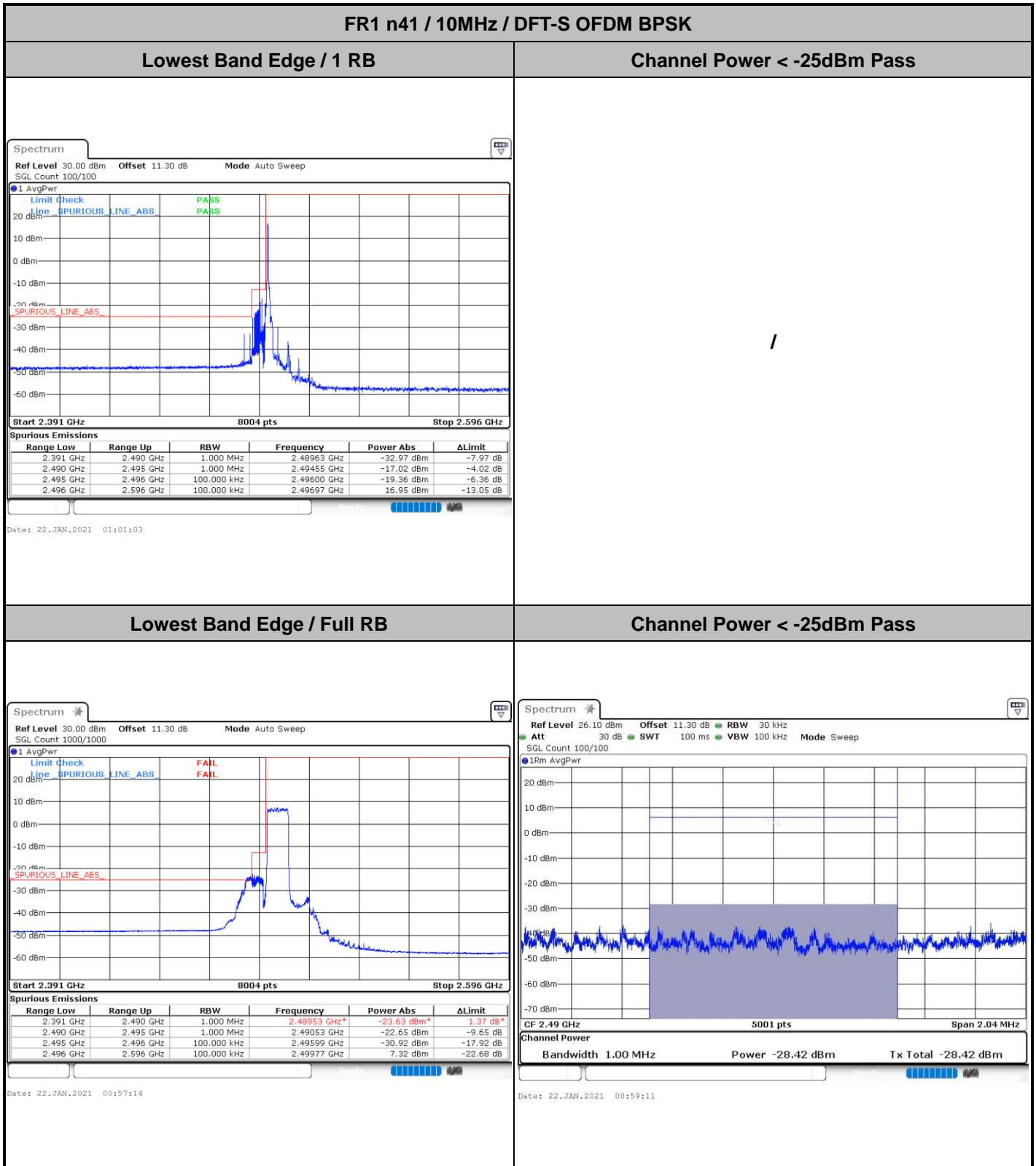








# Conducted Band Edge

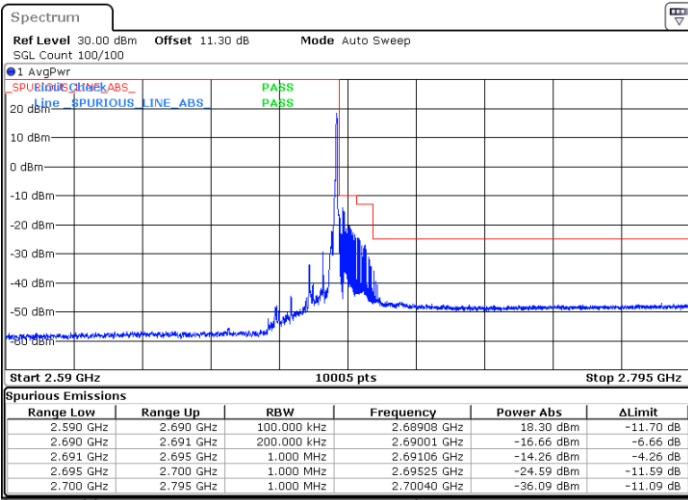




FR1 n41 / 10MHz / DFT-S OFDM BPSK

Highest Band Edge / 1 RB

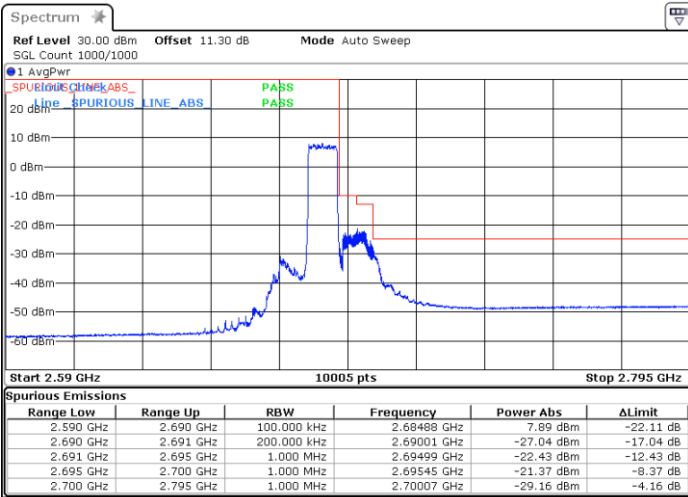
Channel Power < -13dBm Pass



Date: 22.JAN.2021 01:04:51

Highest Band Edge / Full RB

Channel Power < -13dBm Pass



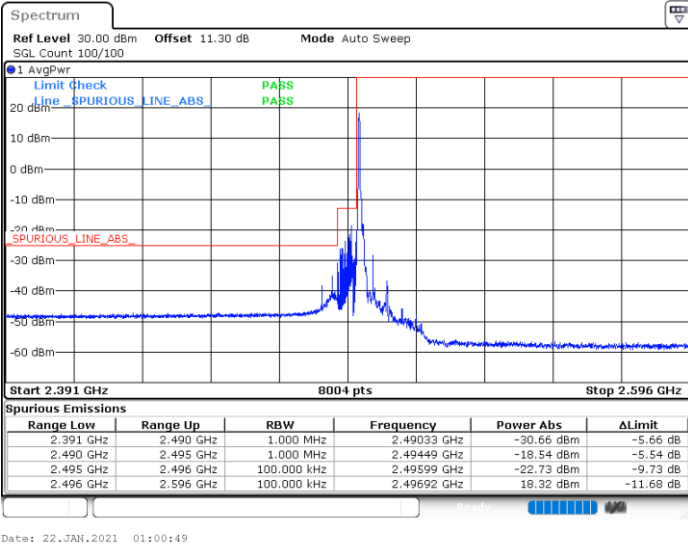
Date: 22.JAN.2021 01:03:59



FR1 n41 / 10MHz / DFT-S OFDM QPSK

Lowest Band Edge / 1 RB

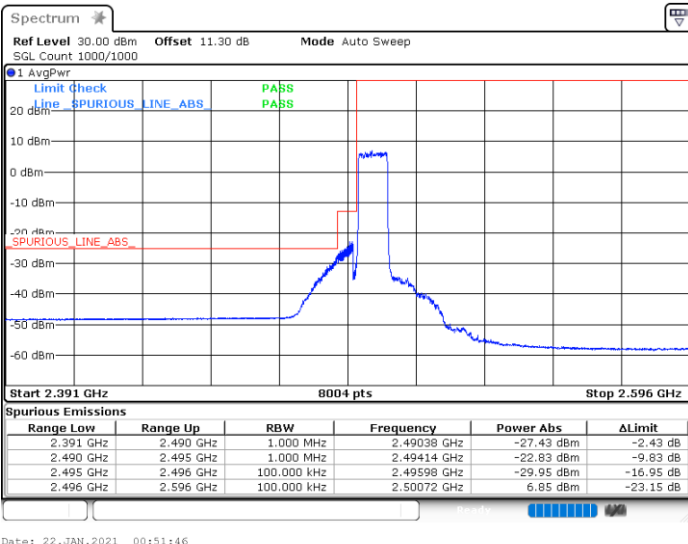
Channel Power < -25dBm Pass



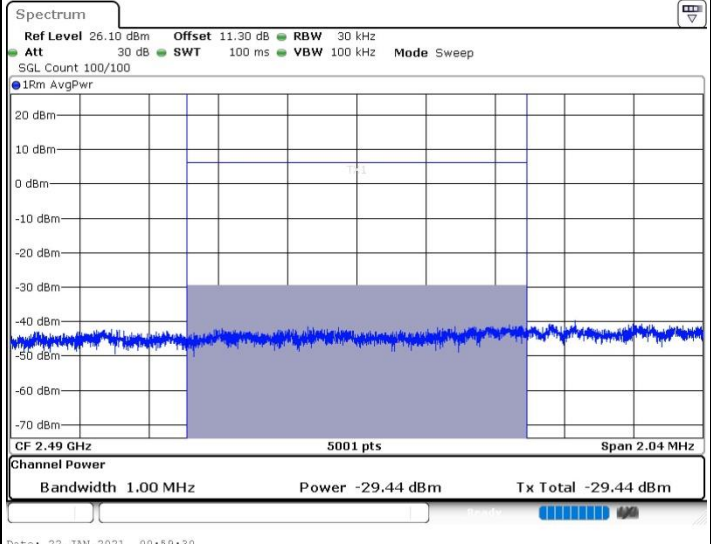
Date: 22.JAN.2021 01:00:49

Lowest Band Edge / Full RB

Channel Power < -25dBm Pass



Date: 22.JAN.2021 00:51:46



Date: 22.JAN.2021 00:59:30

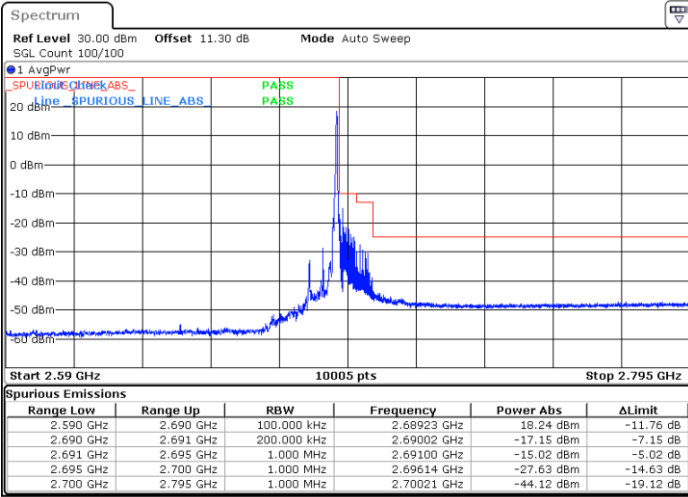




FR1 n41 / 10MHz / DFT-S OFDM QPSK

Highest Band Edge / 1 RB

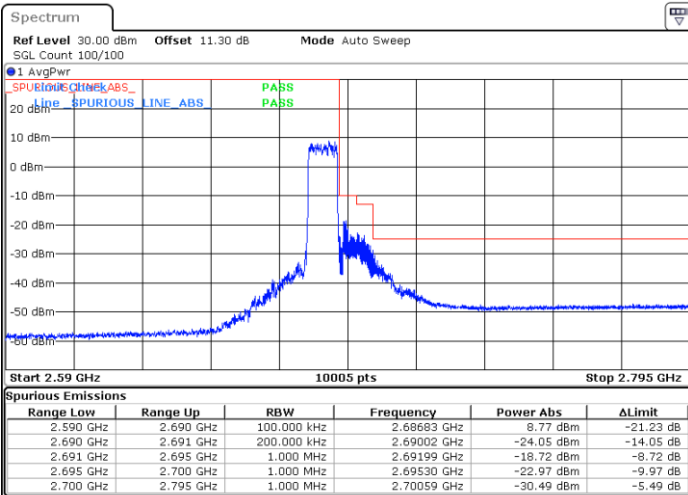
Channel Power < -13dBm Pass



Date: 22.JAN.2021 01:04:37

Highest Band Edge / Full RB

Channel Power < -13dBm Pass



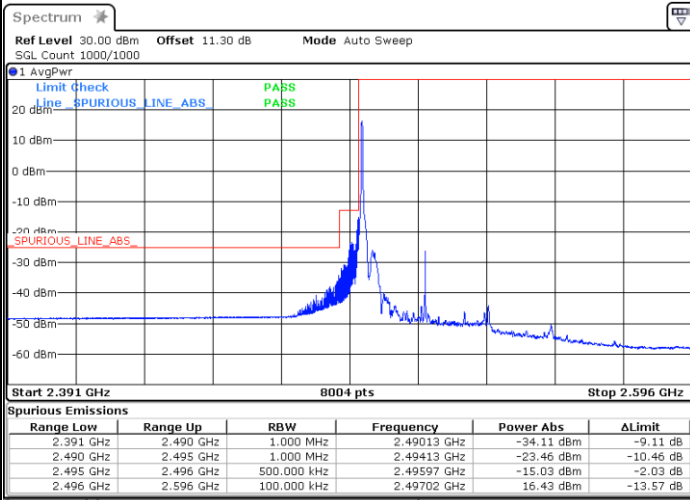
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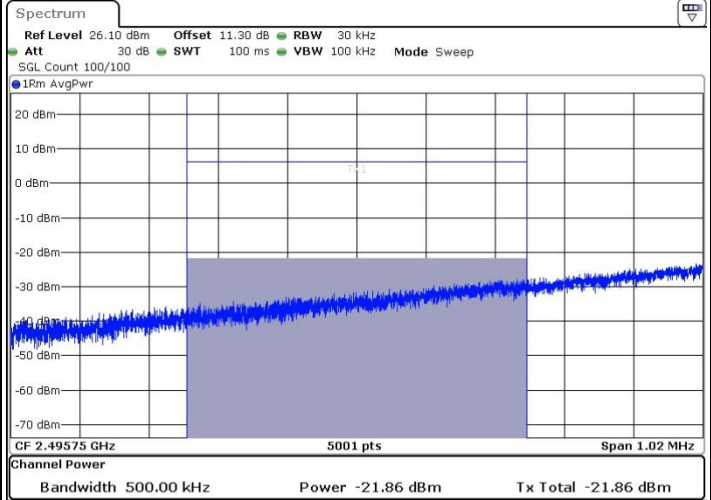
FR1 n41 / 40MHz / DFT-S OFDM BPSK

Lowest Band Edge / 1 RB

Channel Power < -13dBm Pass



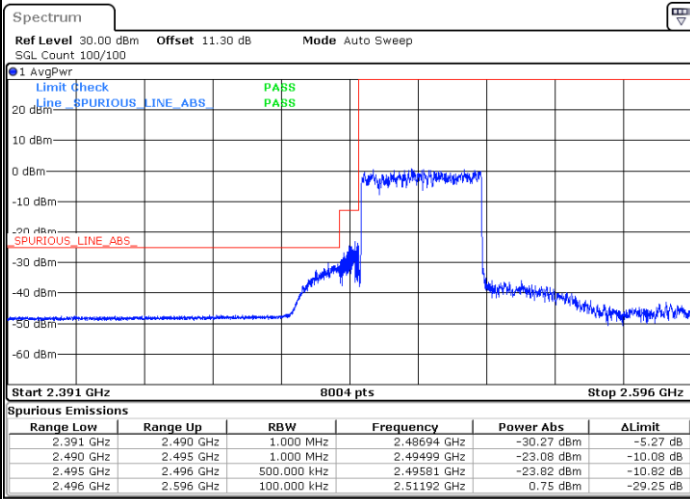
Date: 22.JAN.2021 00:30:00



Date: 22.JAN.2021 00:35:18

Lowest Band Edge / Full RB

Channel Power < -13dBm Pass



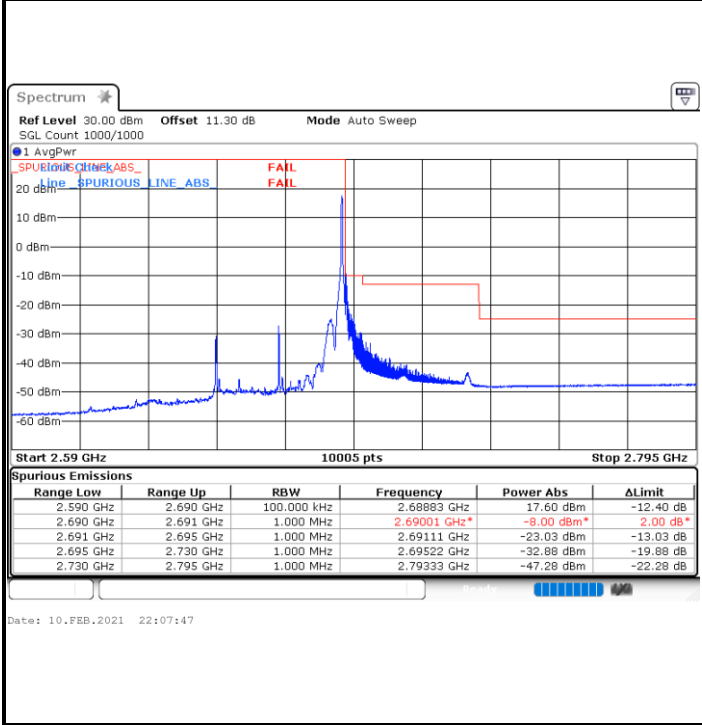
Date: 22.JAN.2021 00:28:41

/

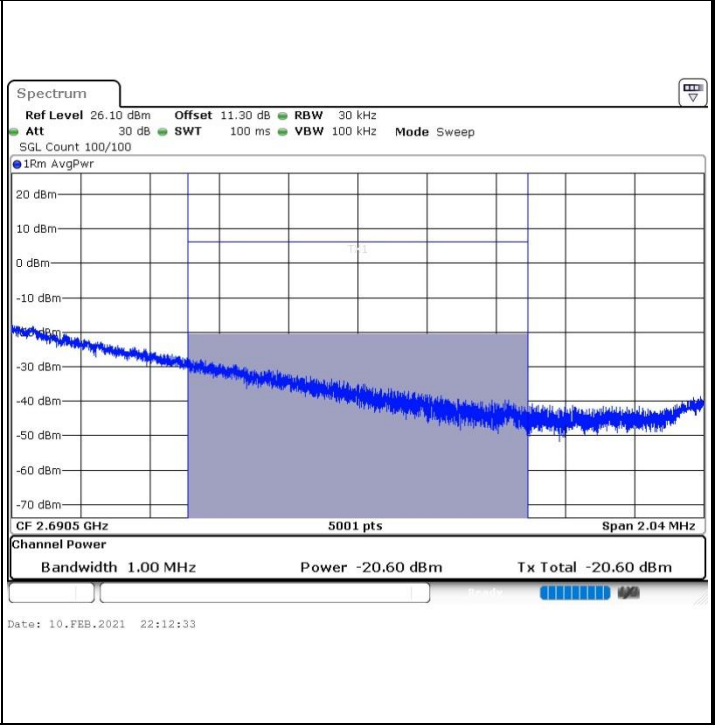


FR1 n41 / 40MHz / DFT-S OFDM BPSK

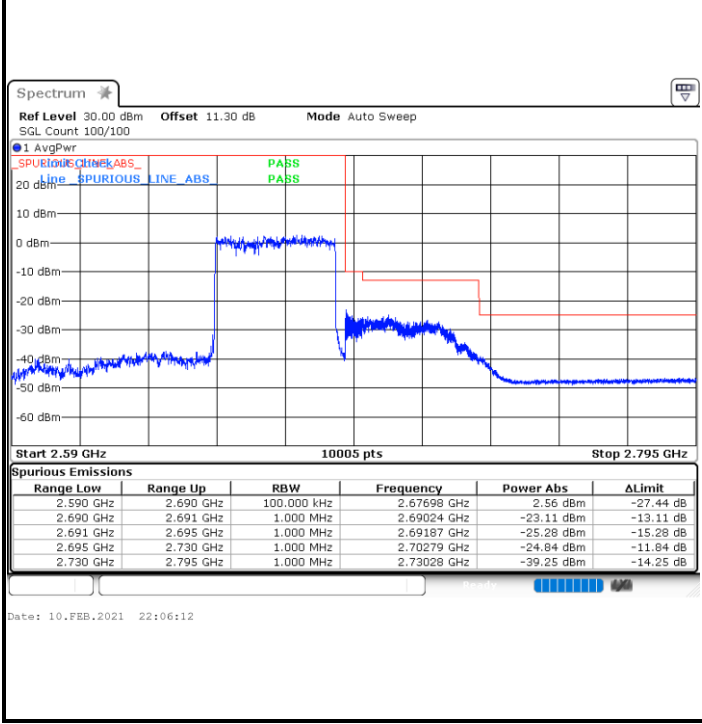
Highest Band Edge / 1 RB



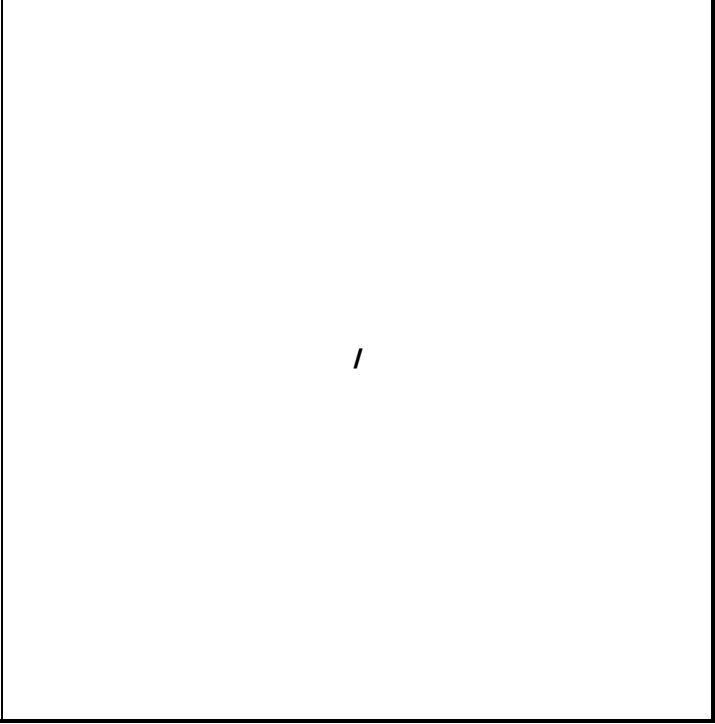
Channel Power < -10dBm Pass



Highest Band Edge / Full RB



Channel Power < -10dBm Pass

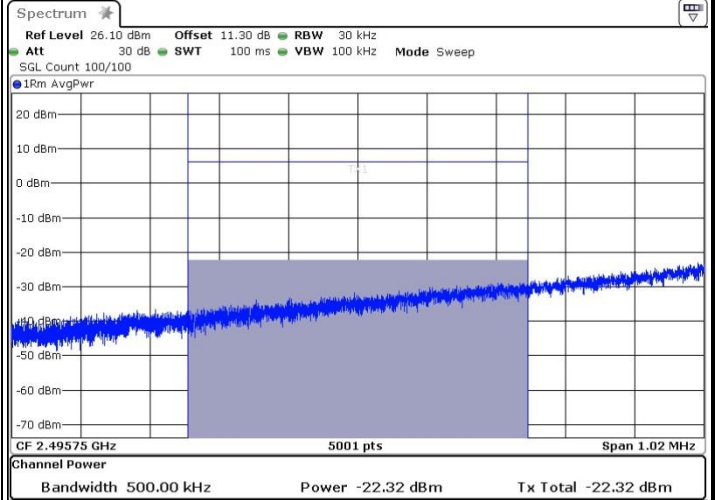
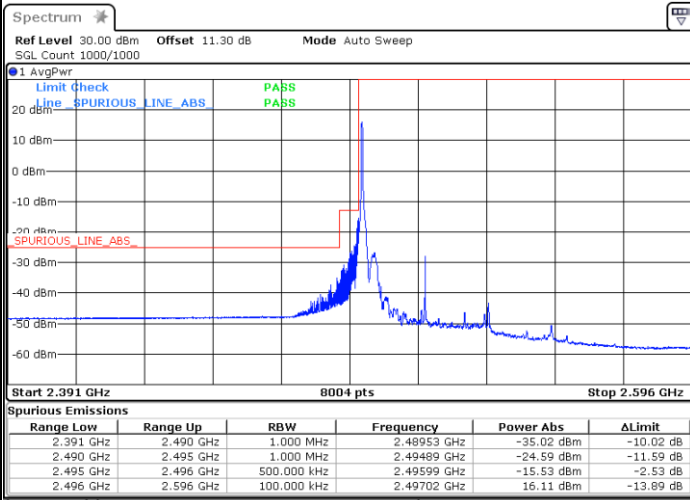




FR1 n41 / 40MHz / DFT-S OFDM QPSK

Lowest Band Edge / 1 RB

Channel Power < -13dBm Pass

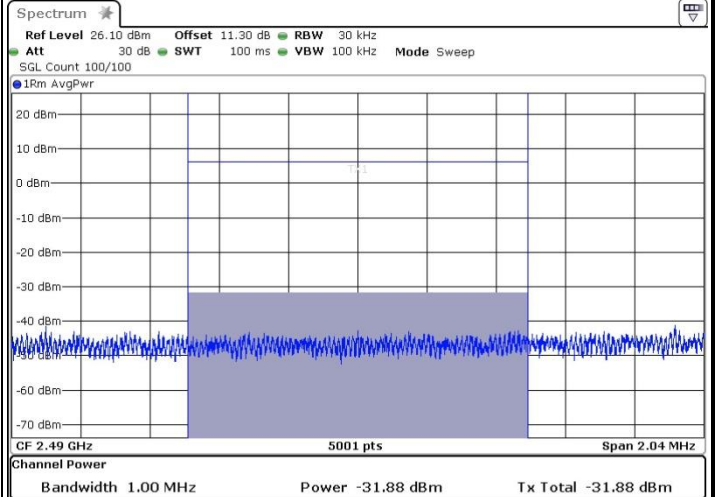
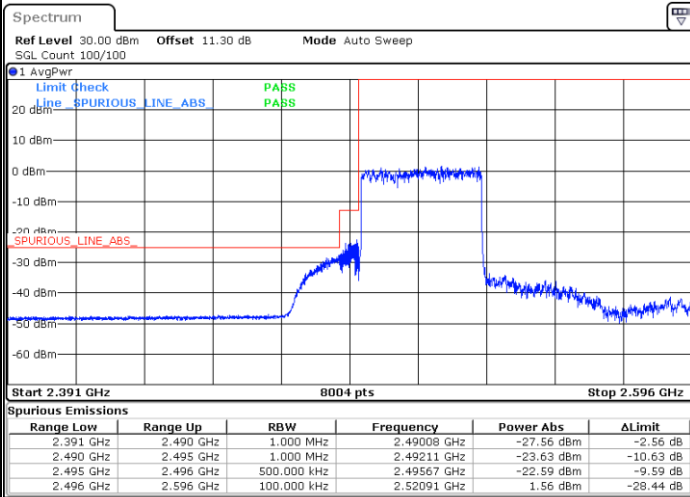


Date: 22.JAN.2021 00:30:42

Date: 22.JAN.2021 00:34:50

Lowest Band Edge / Full RB

Channel Power < -25dBm Pass



Date: 22.JAN.2021 00:28:26

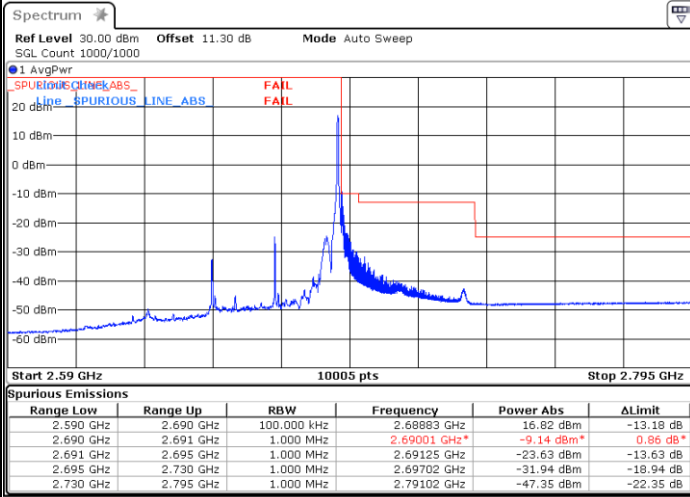
Date: 10.FEB.2021 22:01:03



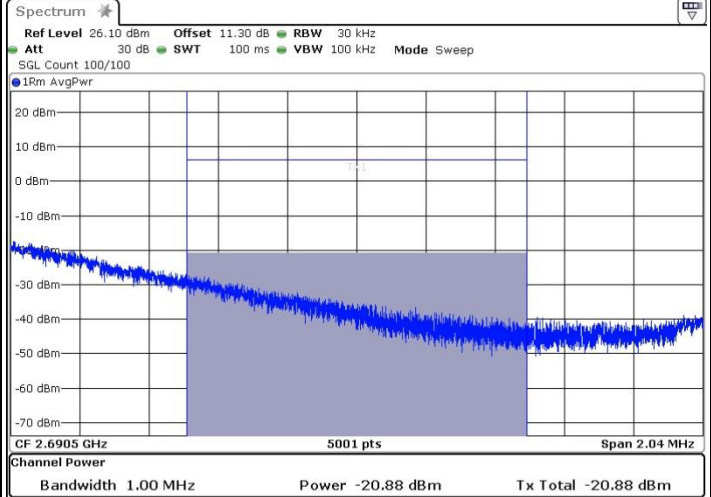
FR1 n41 / 40MHz / DFT-S OFDM QPSK

Highest Band Edge / 1 RB

Channel Power < -10dBm Pass



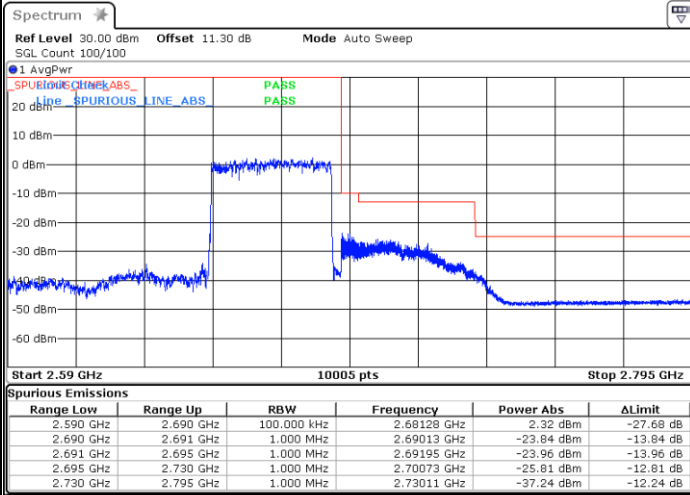
Date: 10.FEB.2021 22:11:23



Date: 10.FEB.2021 22:12:09

Highest Band Edge / Full RB

Channel Power < -10dBm Pass



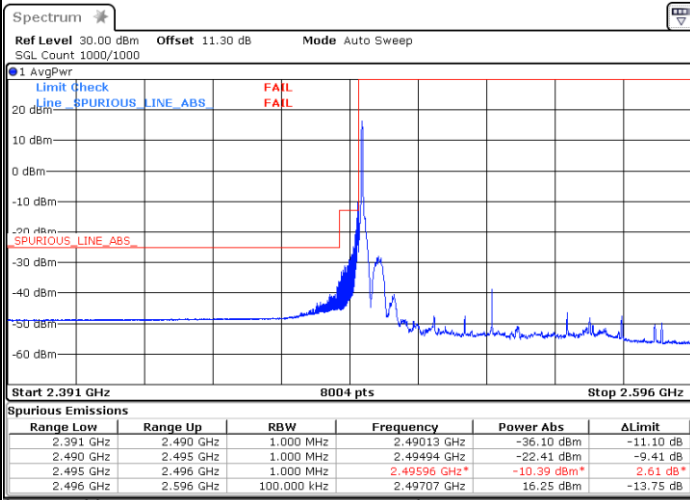
Date: 10.FEB.2021 22:04:48



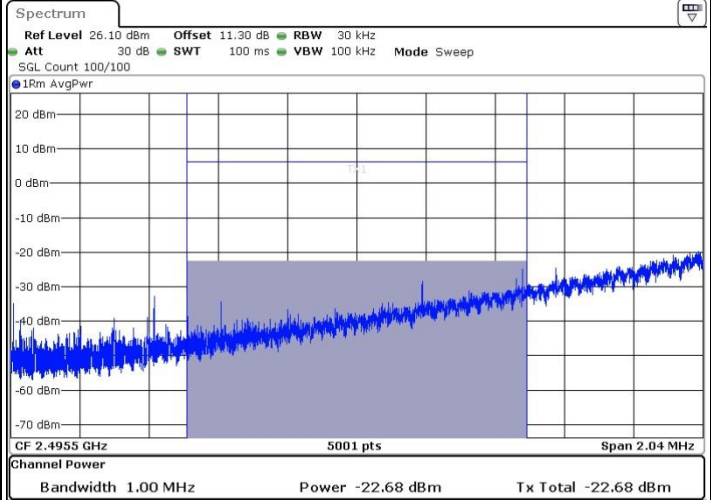
FR1 n41 / 80MHz / DFT-S OFDM BPSK

Lowest Band Edge / 1 RB

Channel Power < -13dBm Pass



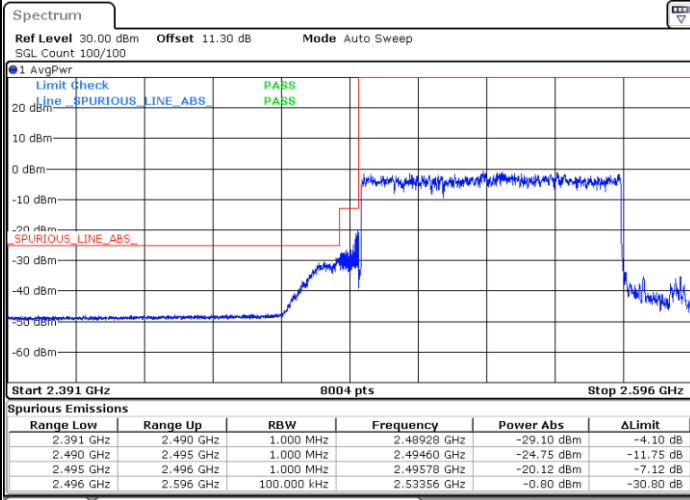
Date: 16.JAN.2021 03:04:18



Date: 16.JAN.2021 03:36:41

Lowest Band Edge / Full RB

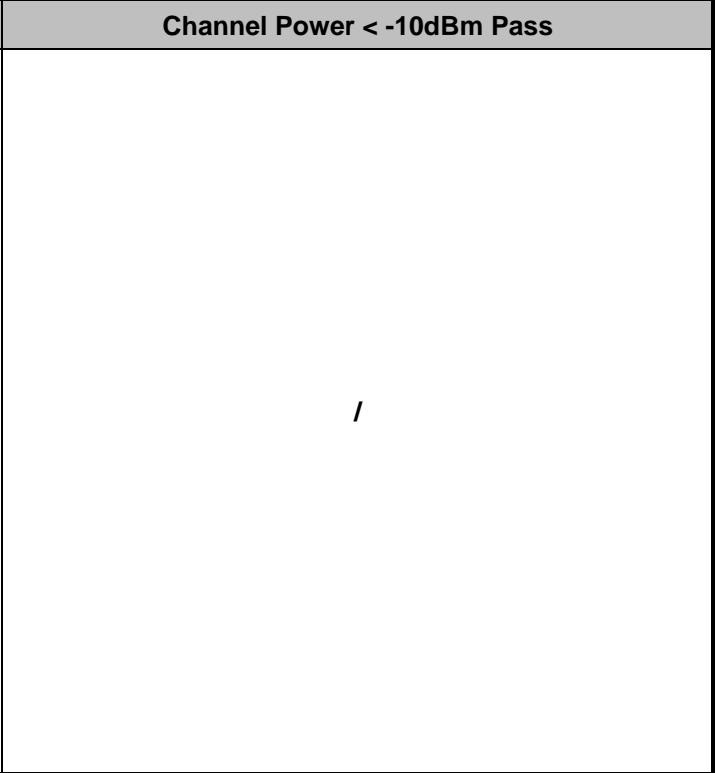
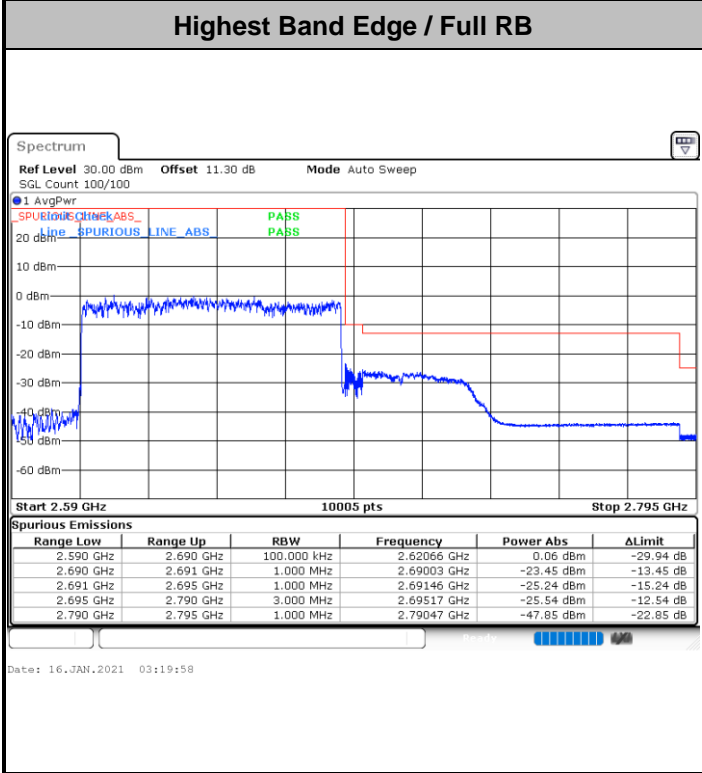
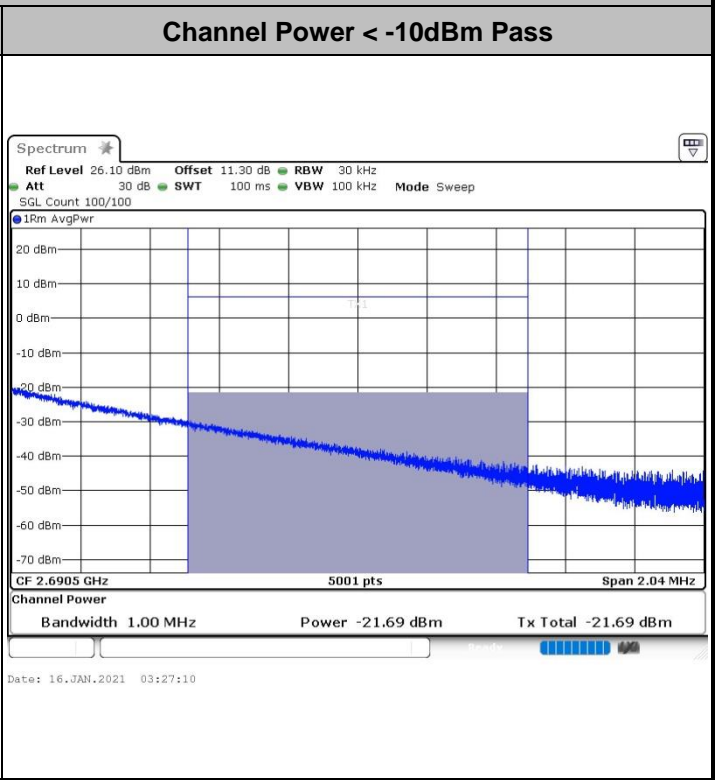
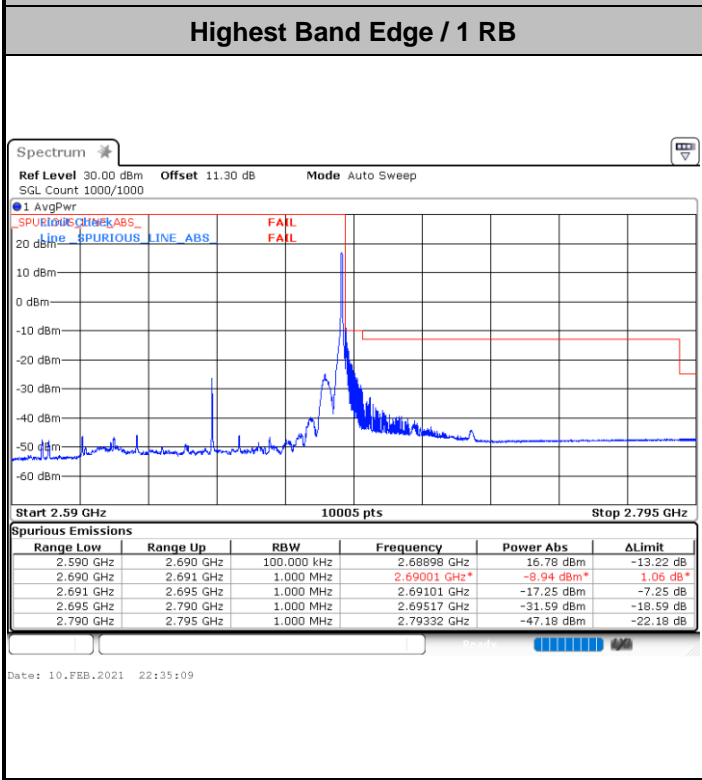
Channel Power < -13dBm Pass



Date: 16.JAN.2021 03:18:51



FR1 n41 / 80MHz / DFT-S OFDM BPSK

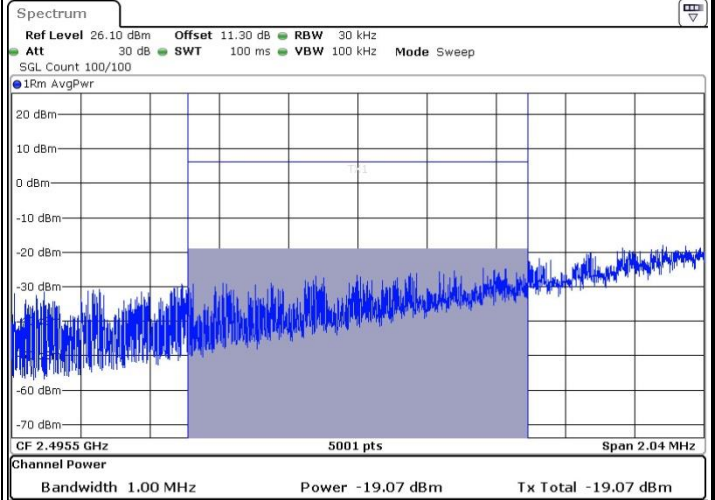
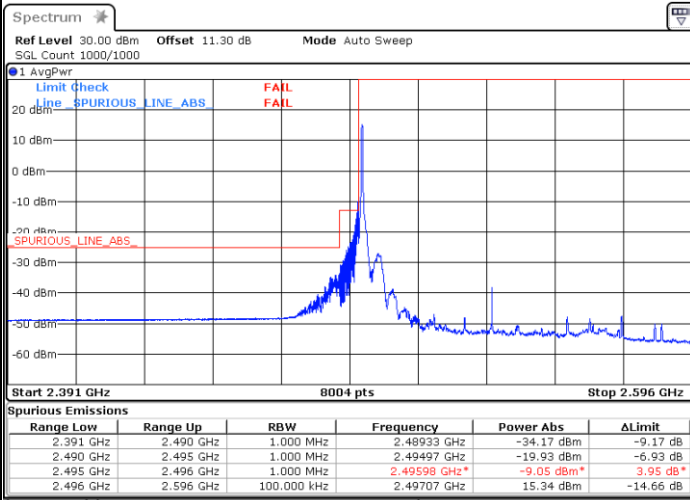




FR1 n41 / 80MHz / DFT-S OFDM QPSK

Lowest Band Edge / 1 RB

Channel Power < -13dBm Pass

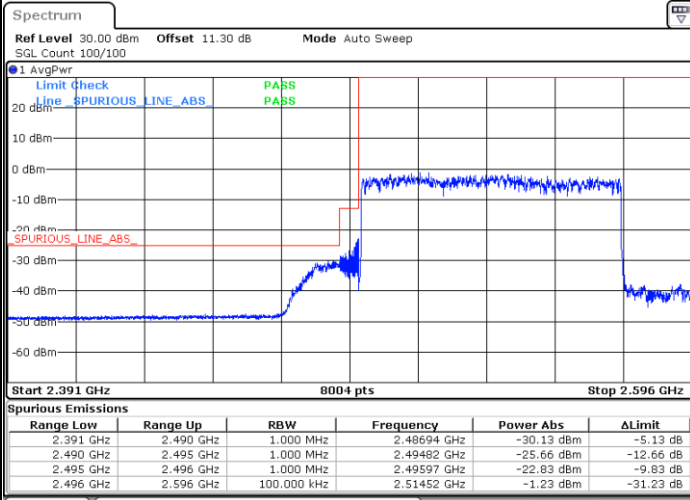


Date: 16.JAN.2021 03:07:33

Date: 16.JAN.2021 03:32:53

Lowest Band Edge / Full RB

Channel Power < -13dBm Pass



Date: 16.JAN.2021 03:15:11

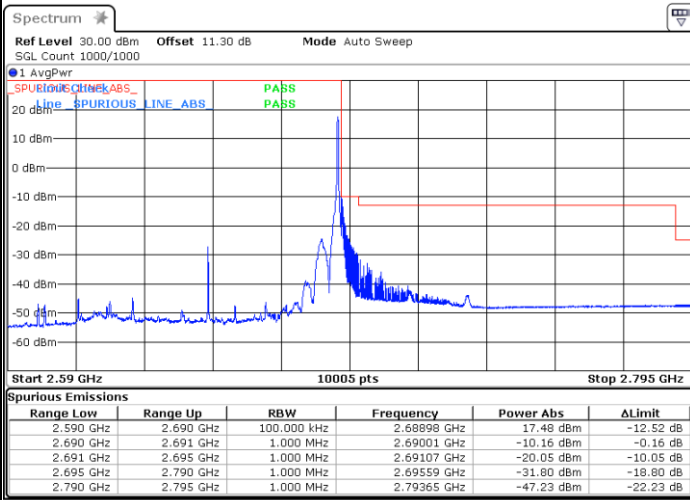




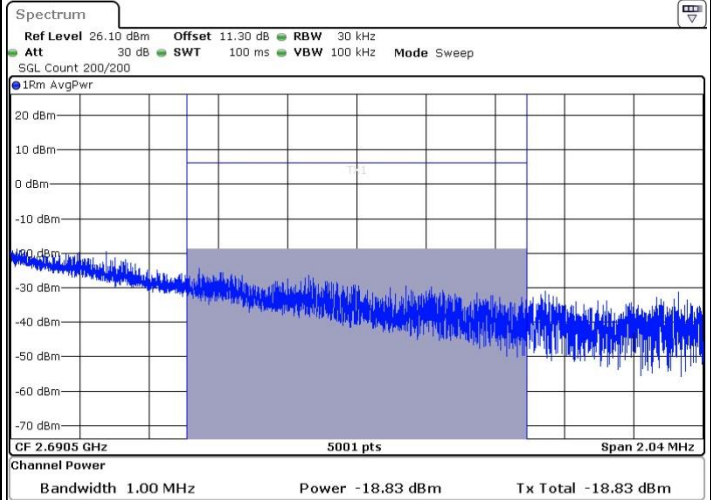
FR1 n41 / 80MHz / DFT-S OFDM QPSK

Highest Band Edge / 1 RB

Channel Power < -10dBm Pass



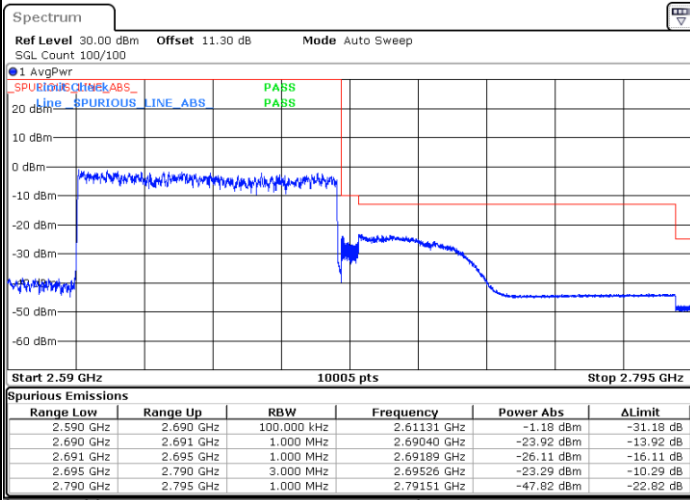
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Date: 16.JAN.2021 03:30:00

Highest Band Edge / Full RB

Channel Power < -10dBm Pass



Date: 16.JAN.2021 03:20:16