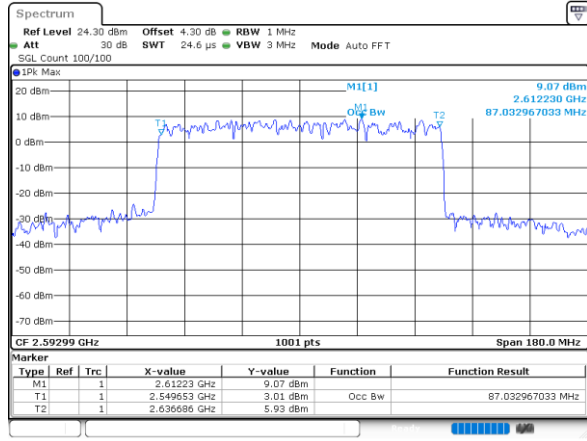




FR1 UL-MIMO n41 / 90MHz / CP-OFDM (ANT0)

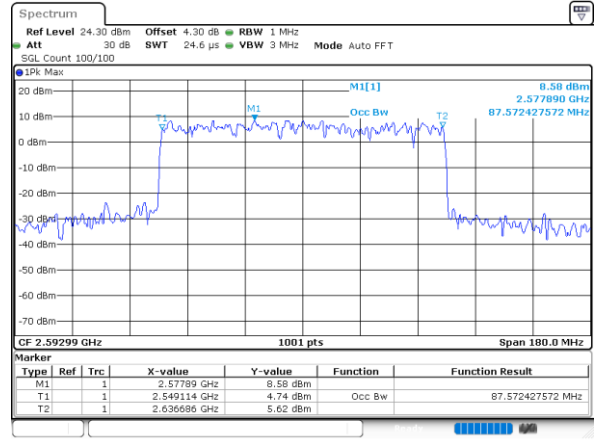
QPSK

Middle Channel



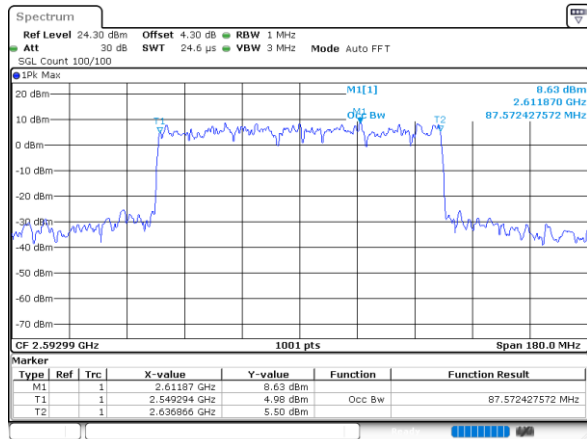
16QAM

Middle Channel



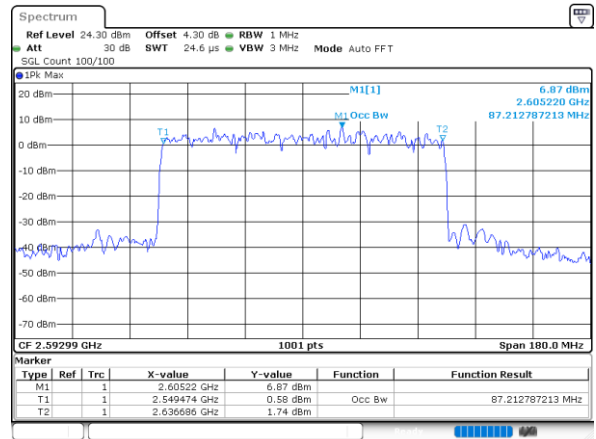
64QAM

Middle Channel



256QAM

Middle Channel

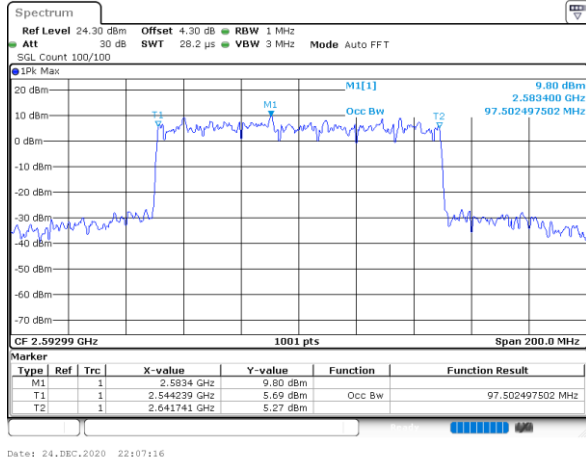




FR1 UL-MIMO n41 / 100MHz / CP-OFDM (ANT3)

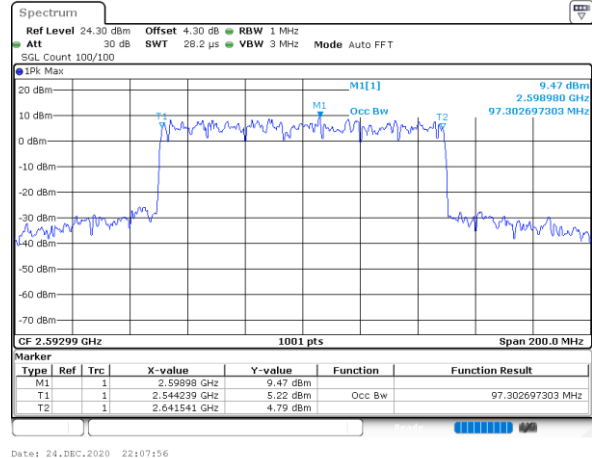
QPSK

Middle Channel



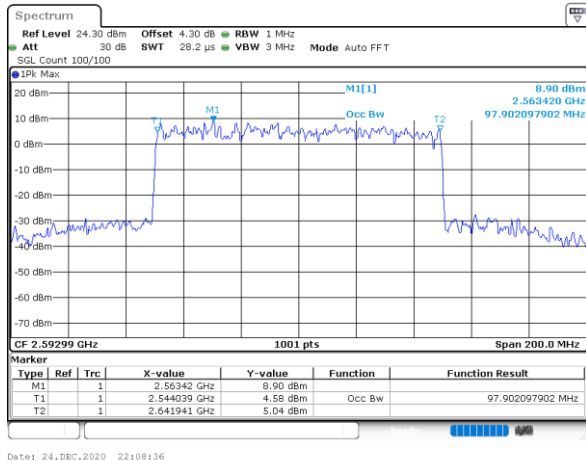
16QAM

Middle Channel



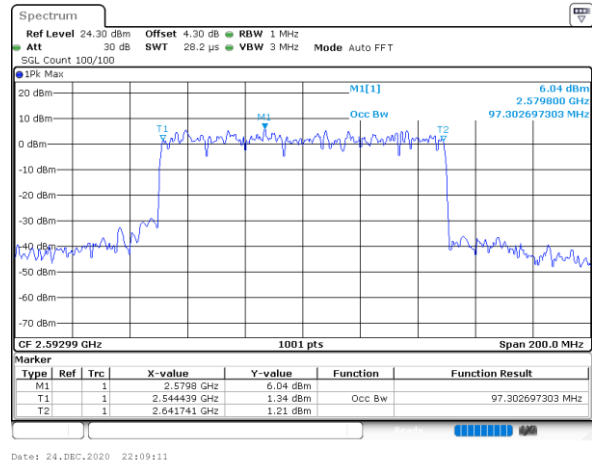
64QAM

Middle Channel



256QAM

Middle Channel

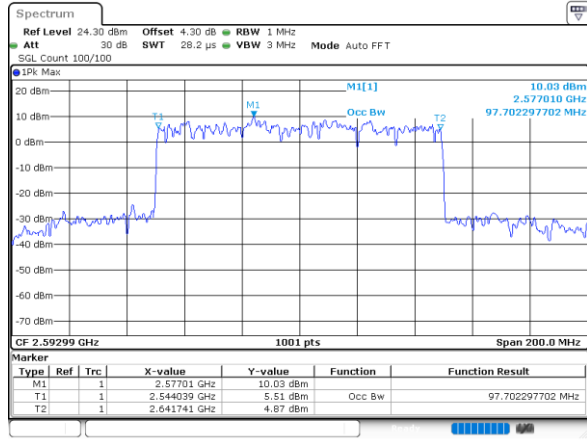




FR1 UL-MIMO n41 / 100MHz / CP-OFDM (ANT0)

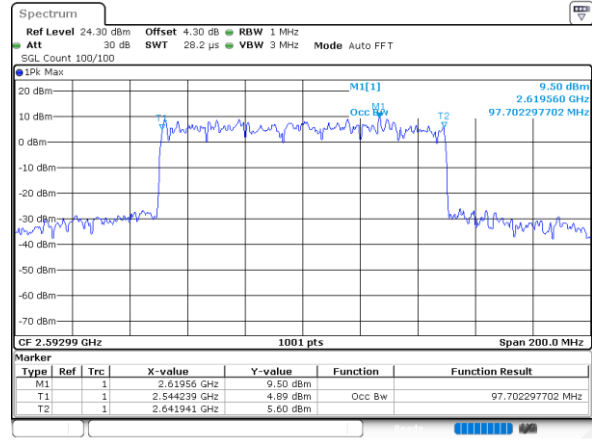
QPSK

Middle Channel



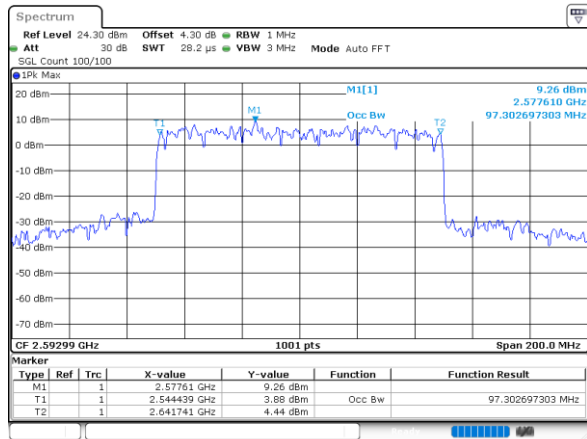
16QAM

Middle Channel



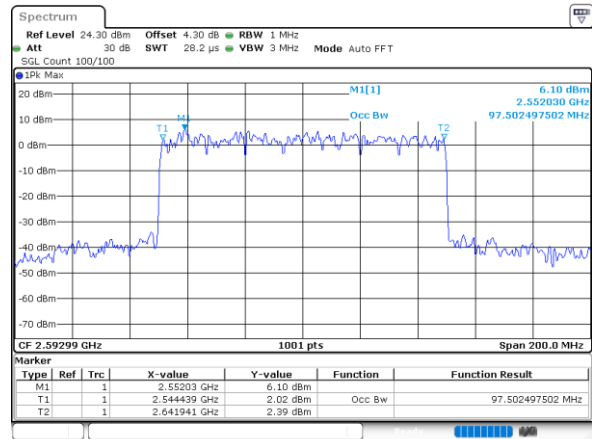
64QAM

Middle Channel



256QAM

Middle Channel



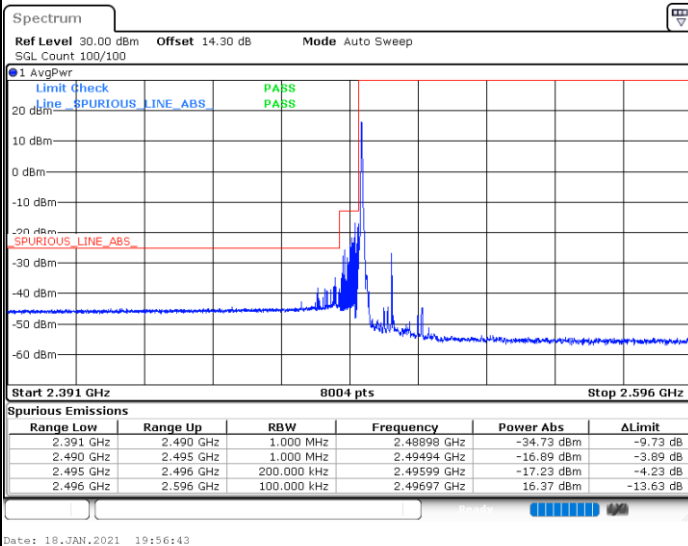


Conducted Band Edge

FR1 UL-MIMO n41 / 20MHz / CP-OFDM QPSK (ANT3)

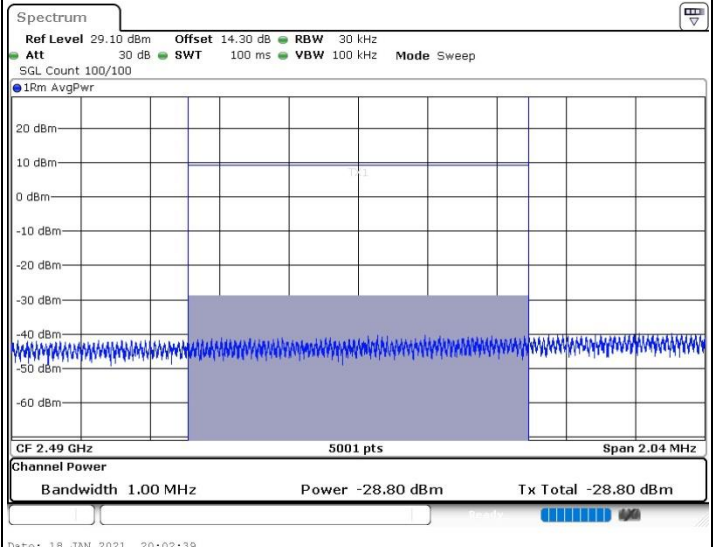
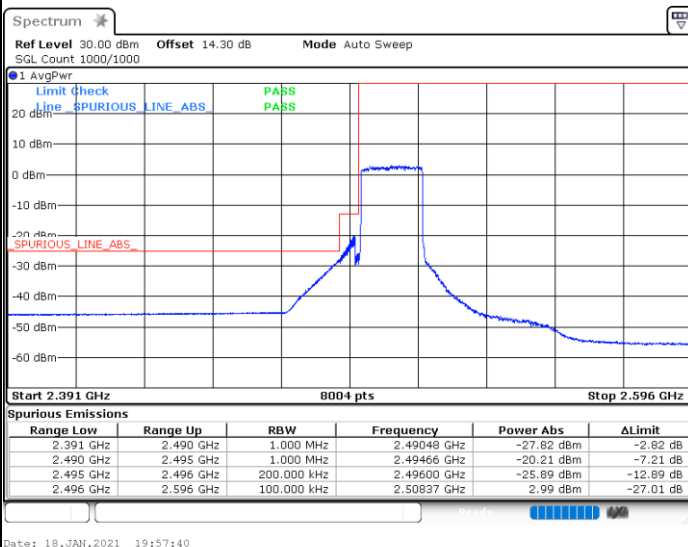
Lowest Band Edge / 1 RB

Channel Power < -13dBm Pass



Lowest Band Edge / Full RB

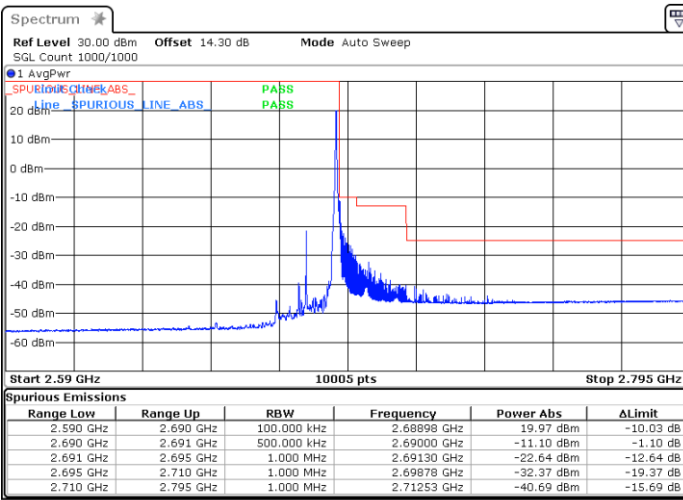
Channel Power < -13dBm Pass



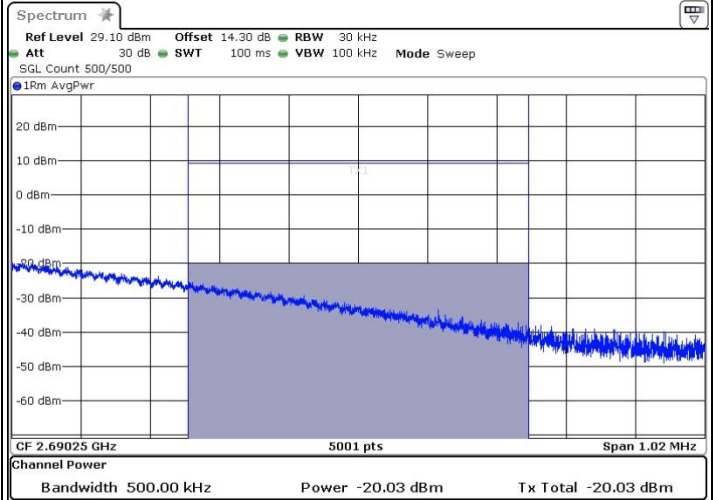


FR1 UL-MIMO n41 / 20MHz / CP-OFDM QPSK (ANT3)

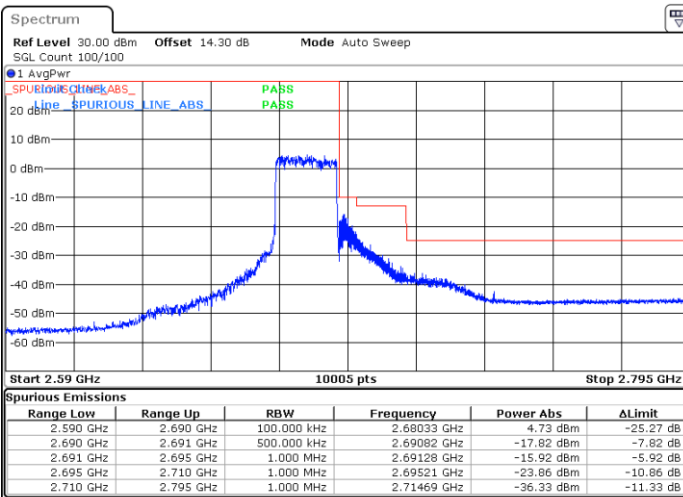
Highest Band Edge / 1 RB



Channel Power < -10dBm Pass



Highest Band Edge / Full RB



Channel Power < -10dBm Pass

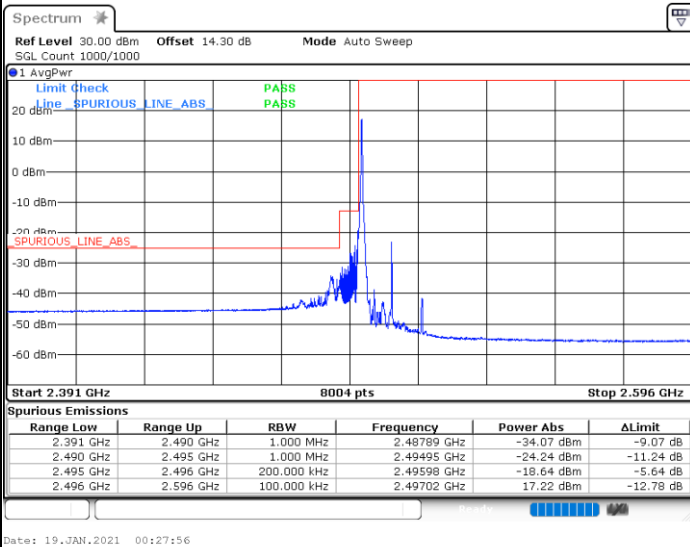
/



FR1 UL-MIMO n41 / 20MHz / CP-OFDM QPSK (ANT0)

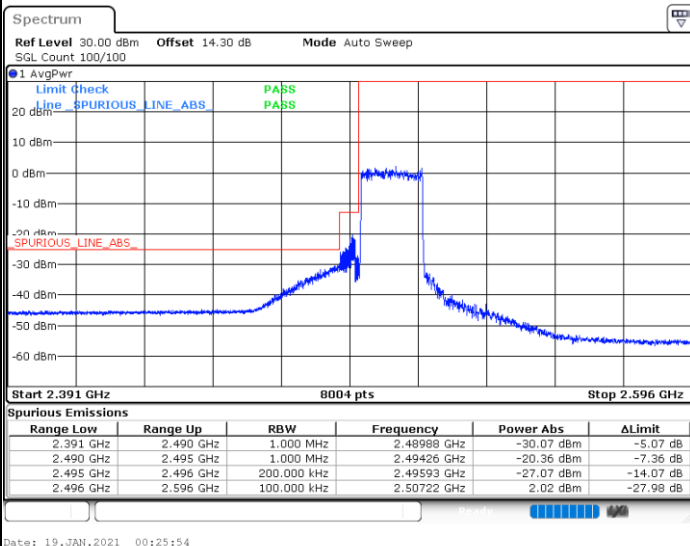
Lowest Band Edge / 1 RB

Channel Power < -13dBm Pass



Lowest Band Edge / Full RB

Channel Power < -13dBm Pass

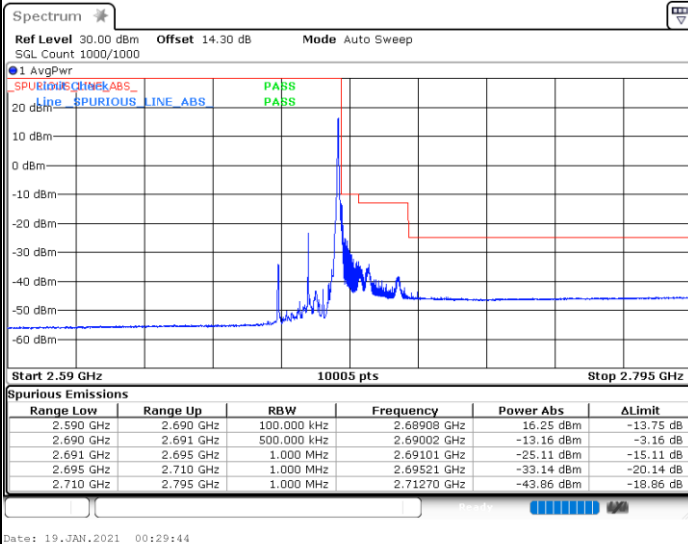




FR1 UL-MIMO n41 / 20MHz / CP-OFDM QPSK (ANT0)

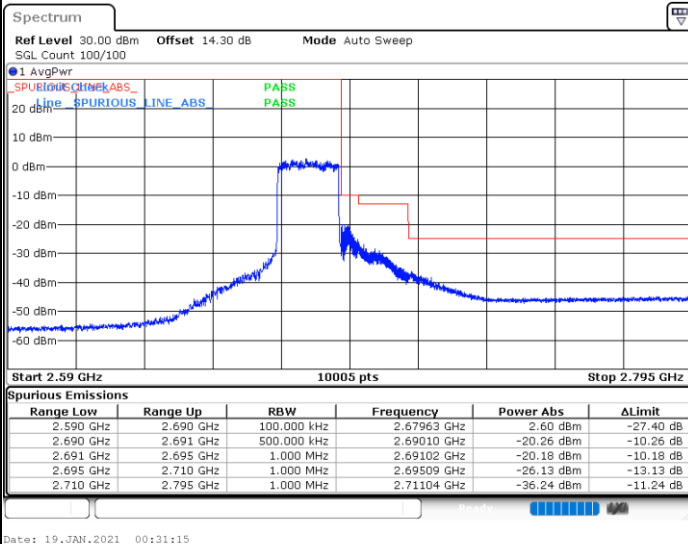
Highest Band Edge / 1 RB

Channel Power < -13dBm Pass



Highest Band Edge / Full RB

Channel Power < -13dBm Pass

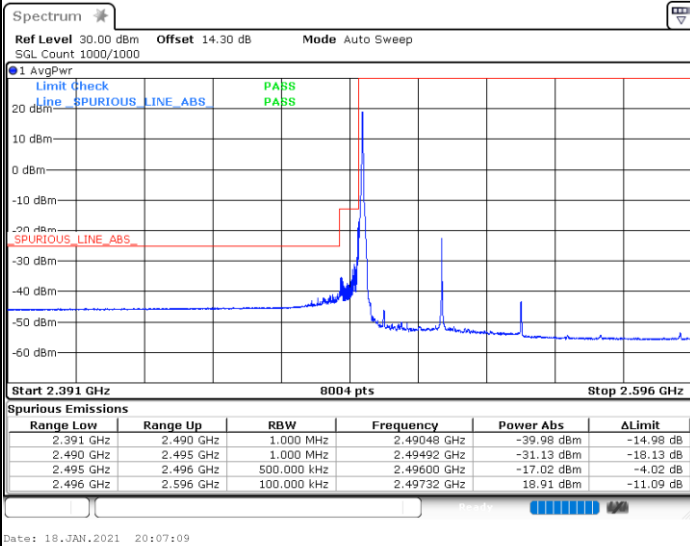




FR1 UL-MIMO n41 / 50MHz / CP-OFDM QPSK (ANT3)

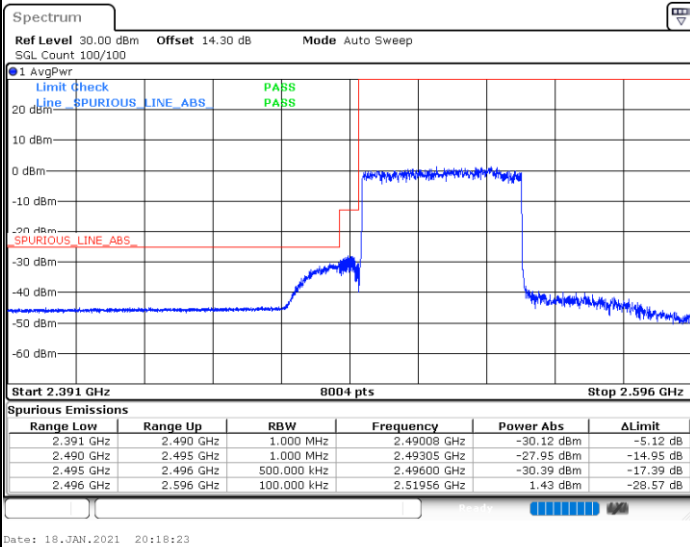
Lowest Band Edge / 1 RB

Channel Power < -13dBm Pass



Lowest Band Edge / Full RB

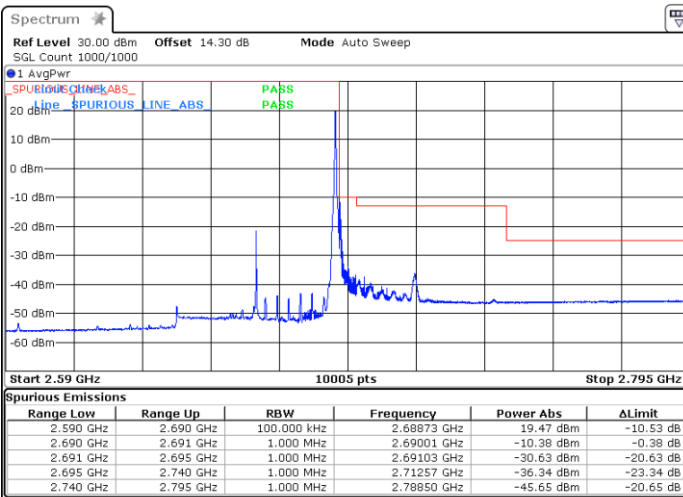
Channel Power < -13dBm Pass



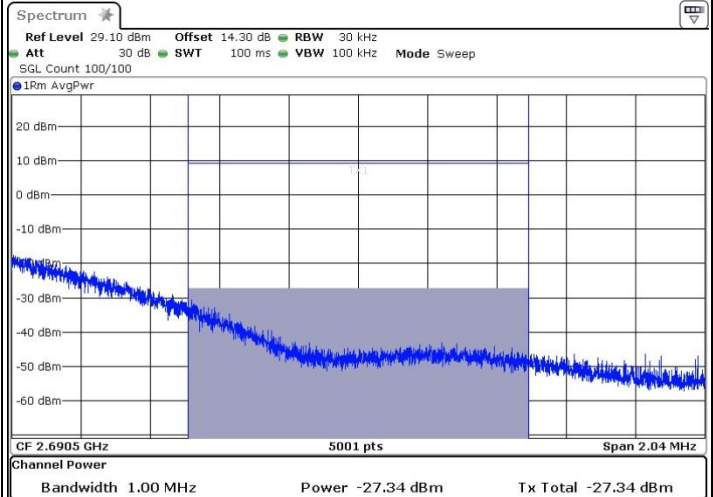


FR1 UL-MIMO n41 / 50MHz / CP-OFDM QPSK (ANT3)

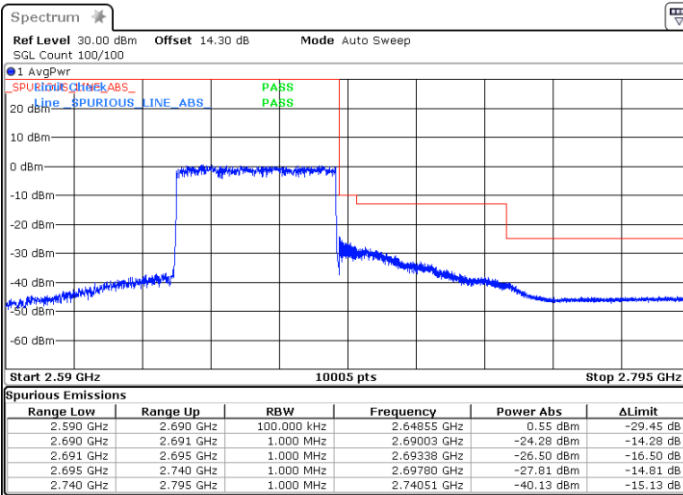
Highest Band Edge / 1 RB



Channel Power < -10dBm Pass



Highest Band Edge / Full RB



Channel Power < -10dBm Pass

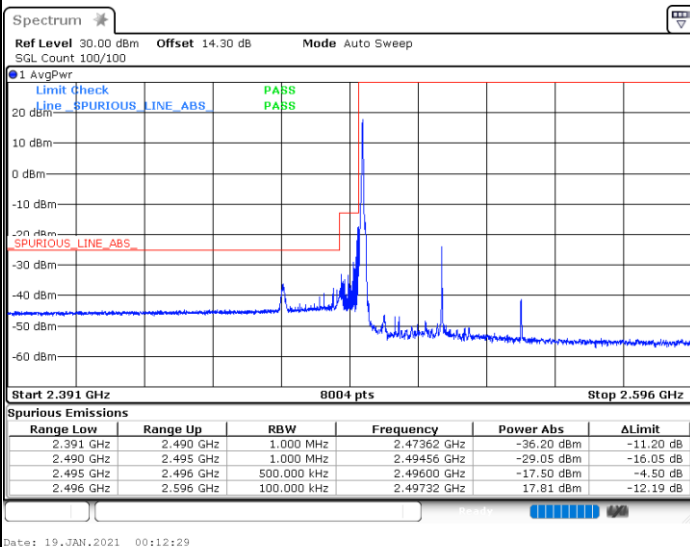
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FR1 UL-MIMO n41 / 50MHz / CP-OFDM QPSK (ANT0)

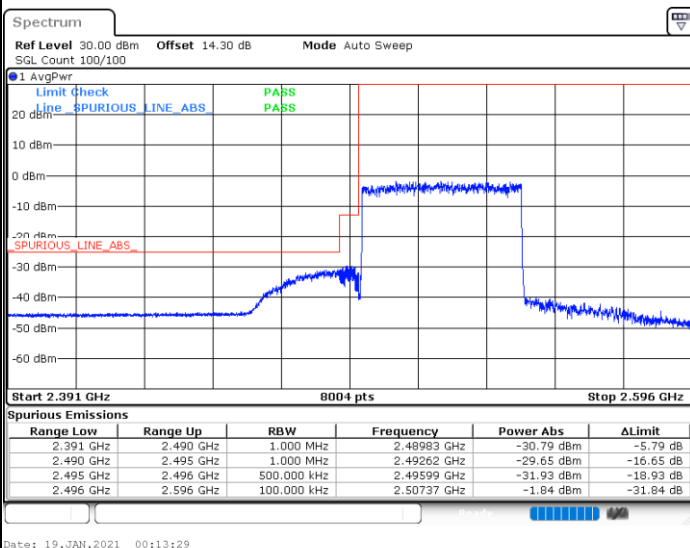
Lowest Band Edge / 1 RB

Channel Power < -13dBm Pass



Lowest Band Edge / Full RB

Channel Power < -13dBm Pass

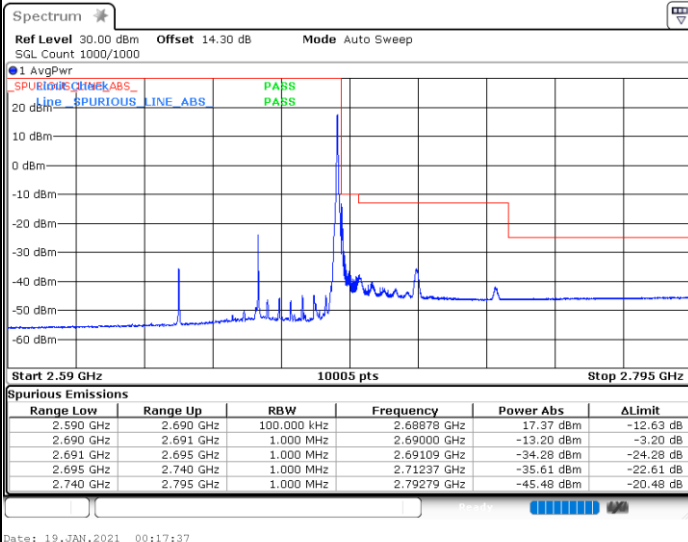




FR1 UL-MIMO n41 / 50MHz / CP-OFDM QPSK (ANT0)

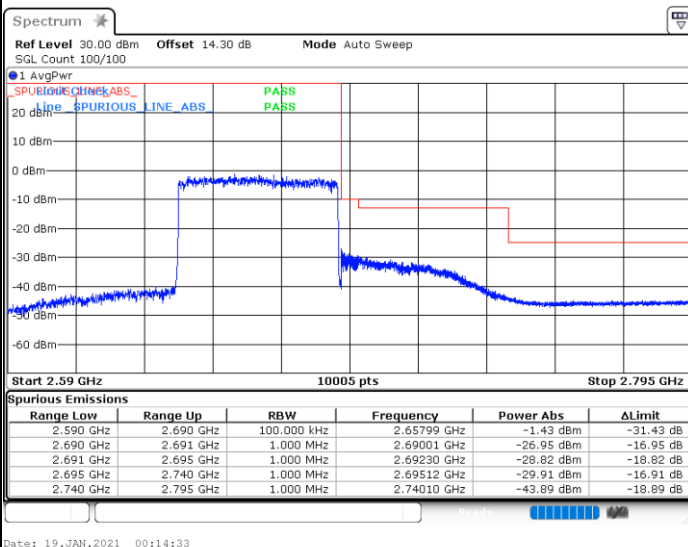
Highest Band Edge / 1 RB

Channel Power < -13dBm Pass



Highest Band Edge / Full RB

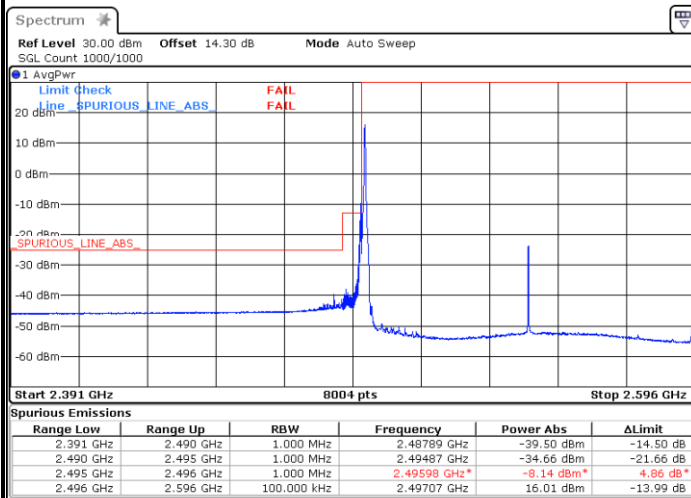
Channel Power < -13dBm Pass



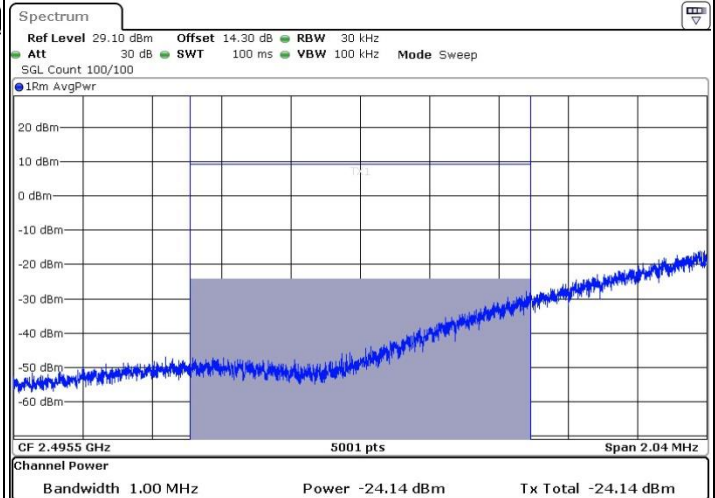


FR1 UL-MIMO n41 / 100MHz / CP-OFDM QPSK (ANT3)

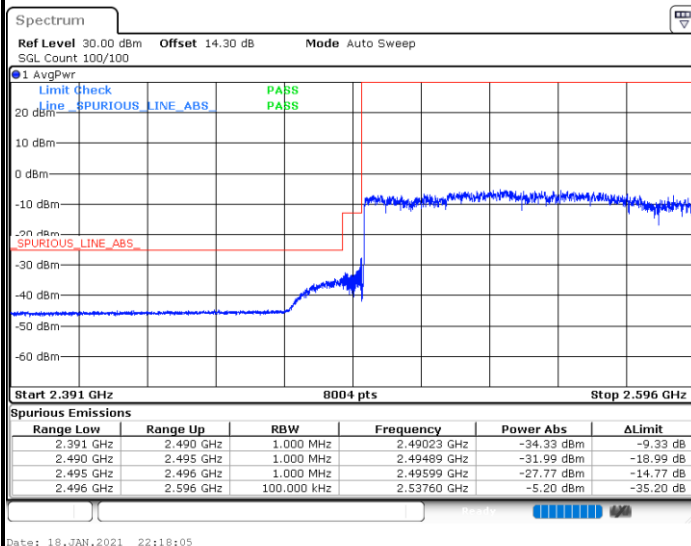
Lowest Band Edge / 1 RB



Channel Power < -13dBm Pass



Lowest Band Edge / Full RB



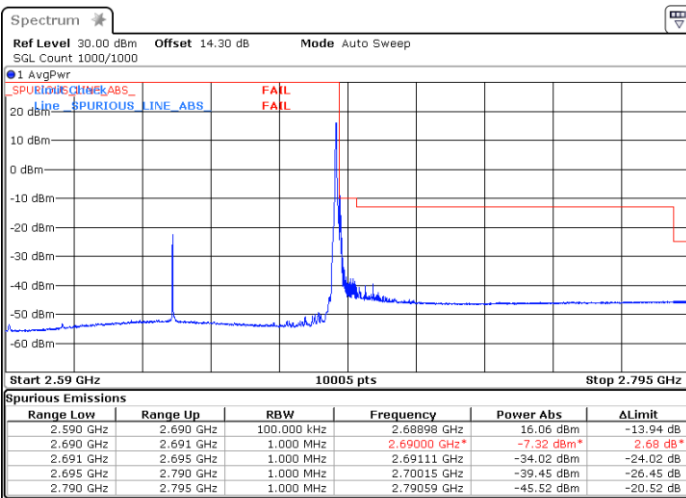
Channel Power < -13dBm Pass

/

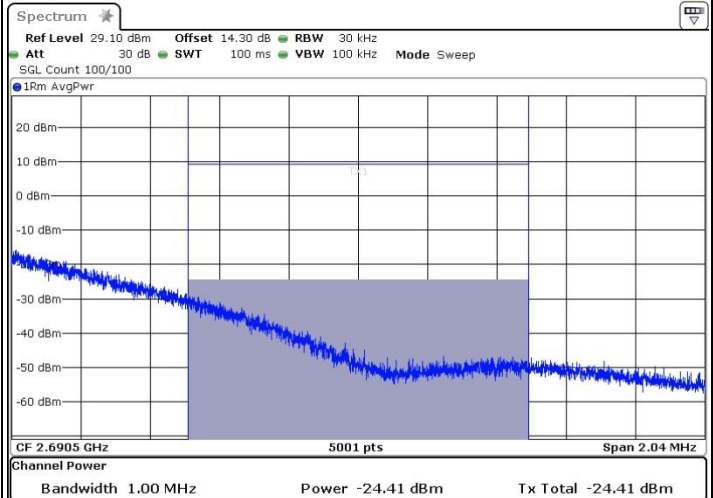


FR1 UL-MIMO n41 / 100MHz / CP-OFDM QPSK (ANT3)

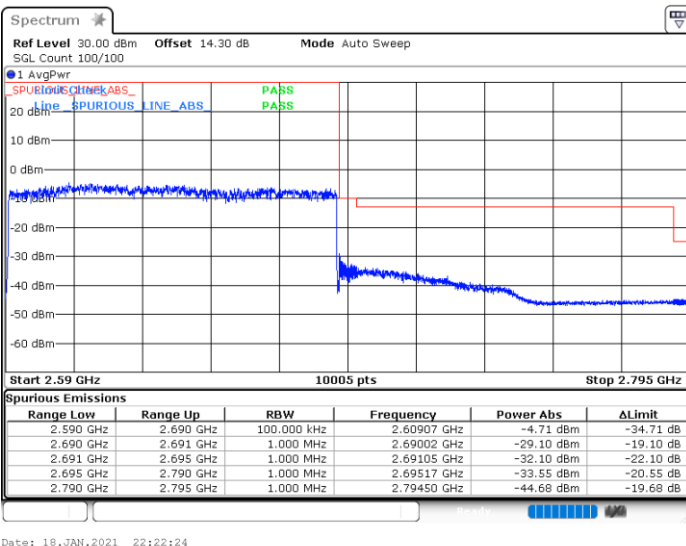
Highest Band Edge / 1 RB



Channel Power < -10dBm Pass



Highest Band Edge / Full RB



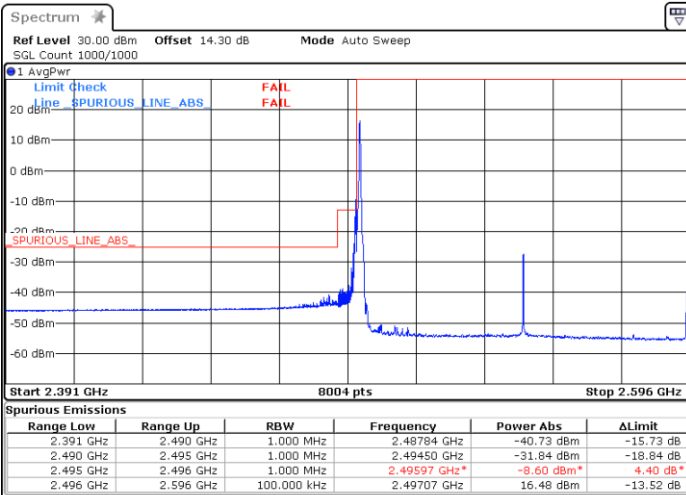
Channel Power < -10dBm Pass

/

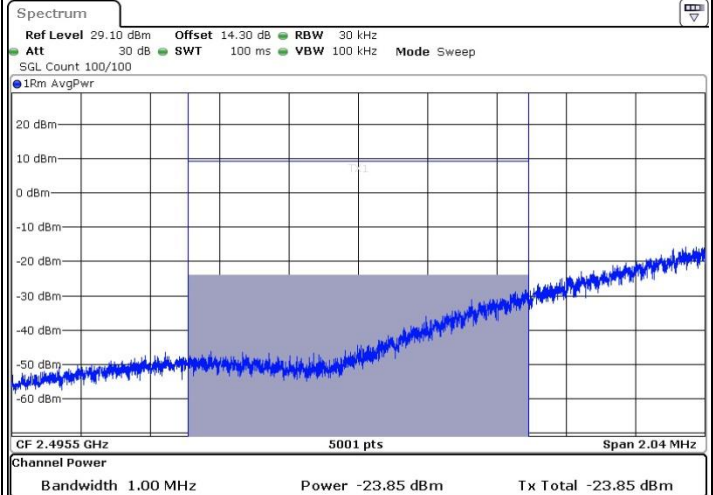


FR1 UL-MIMO n41 / 100MHz / CP-OFDM QPSK (ANT0)

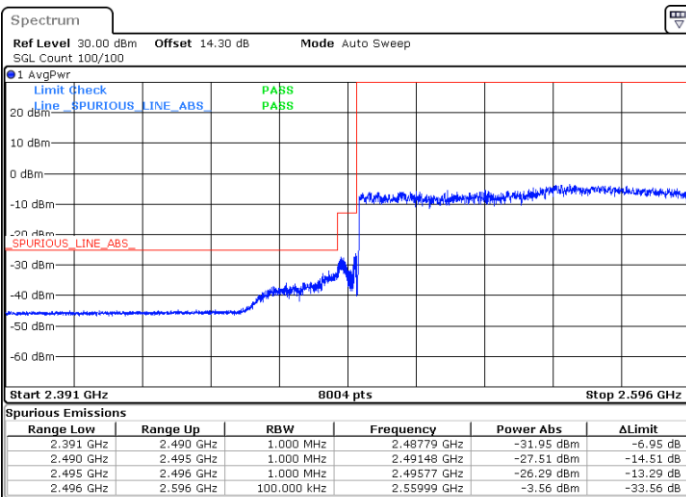
Lowest Band Edge / 1 RB



Channel Power < -13dBm Pass



Lowest Band Edge / Full RB



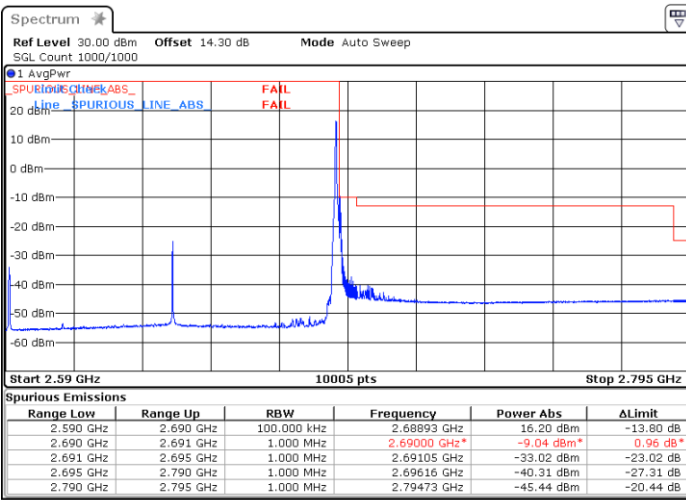
Channel Power < -13dBm Pass

/

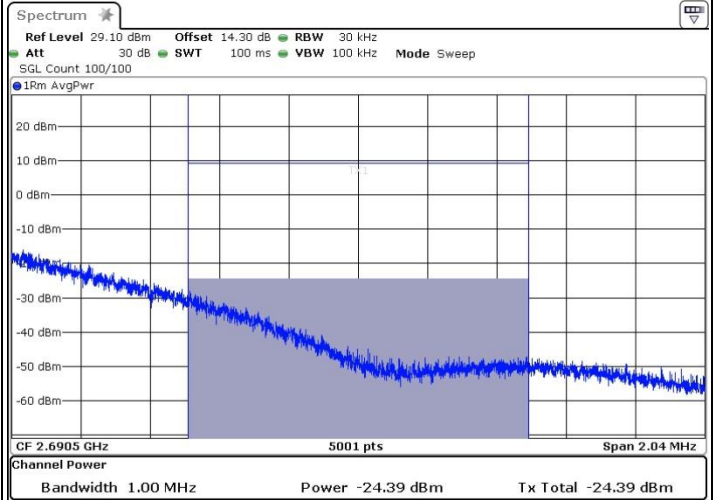


FR1 UL-MIMO n41 / 100MHz / CP-OFDM QPSK (ANT0)

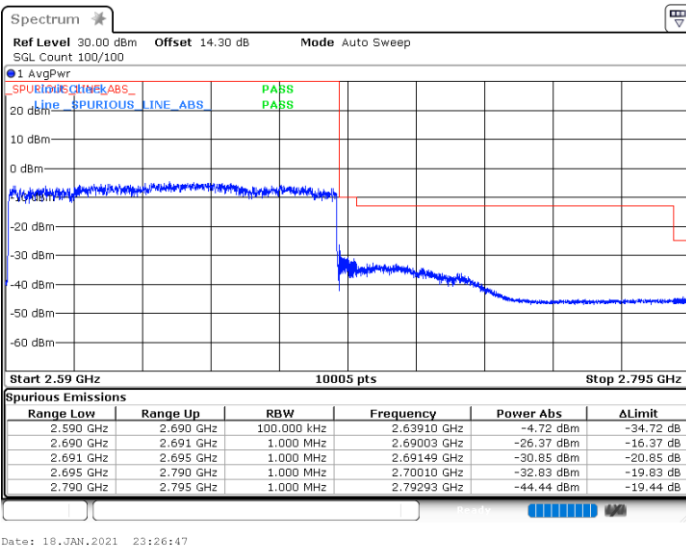
Highest Band Edge / 1 RB



Channel Power < -10dBm Pass



Highest Band Edge / Full RB



Channel Power < -10dBm Pass

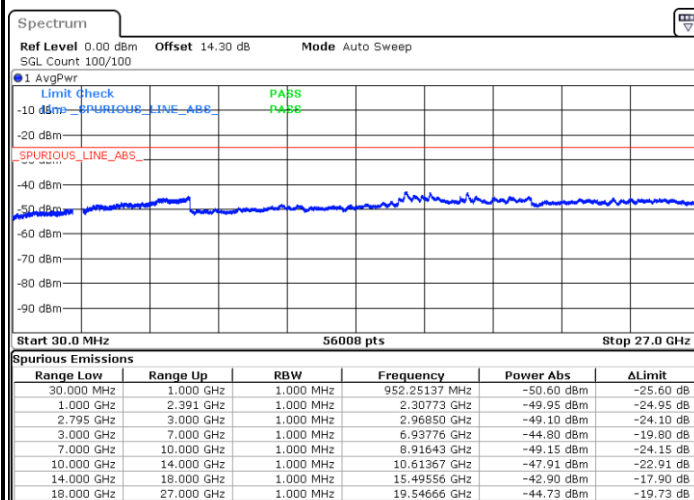
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Conducted Spurious Emission

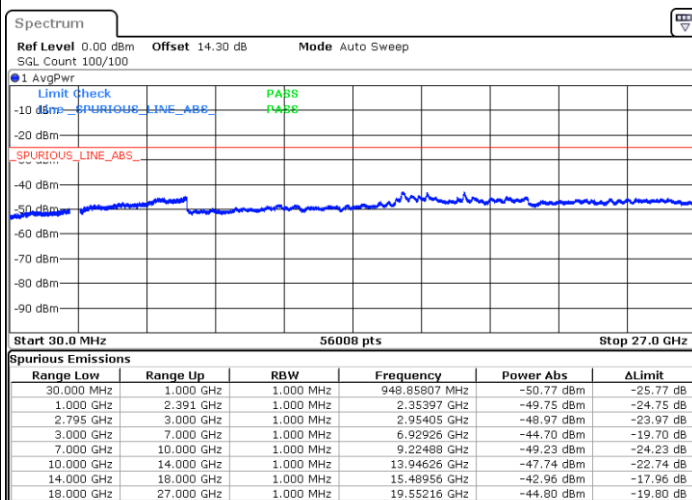
FR1 UL-MIMO n41 / 20MHz / CP-OFDM QPSK (ANT3)

Lowest Channel / 1RB



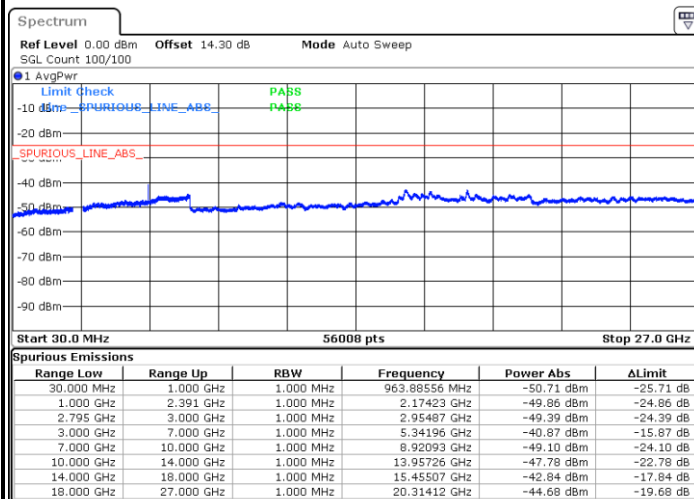
Date: 18.JAN.2021 19:54:58

Middle Channel / 1RB



Date: 18.JAN.2021 19:51:39

Highest Channel / 1RB



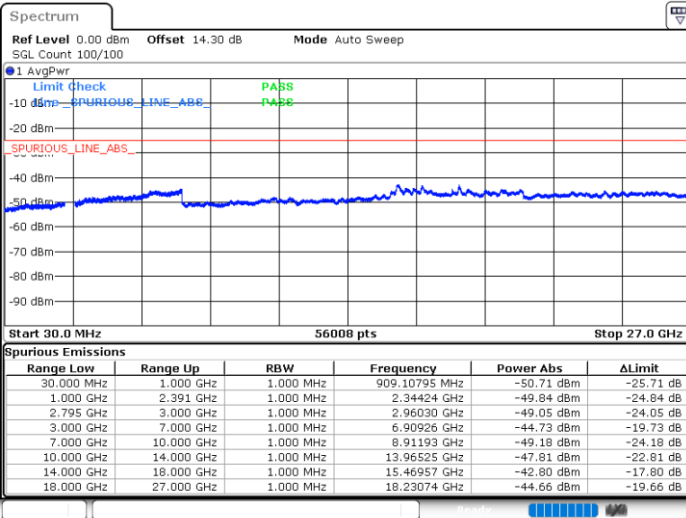
Date: 18.JAN.2021 19:47:21



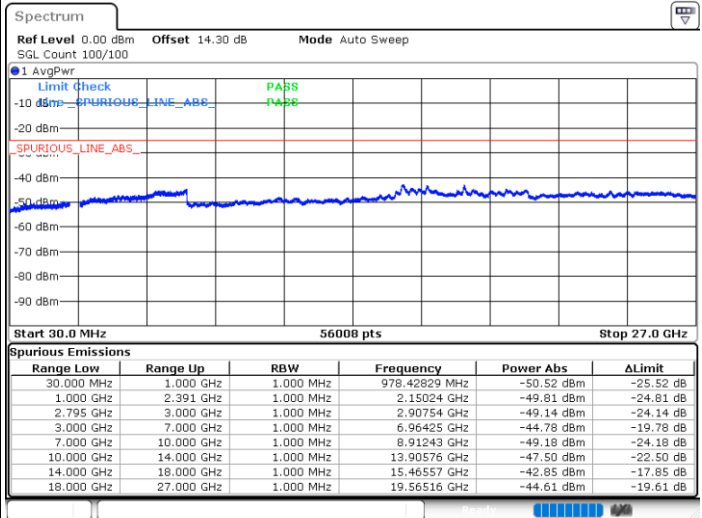
FR1 UL-MIMO n41 / 20MHz / CP-OFDM QPSK (ANT0)

Lowest Channel / 1RB

Middle Channel / 1RB

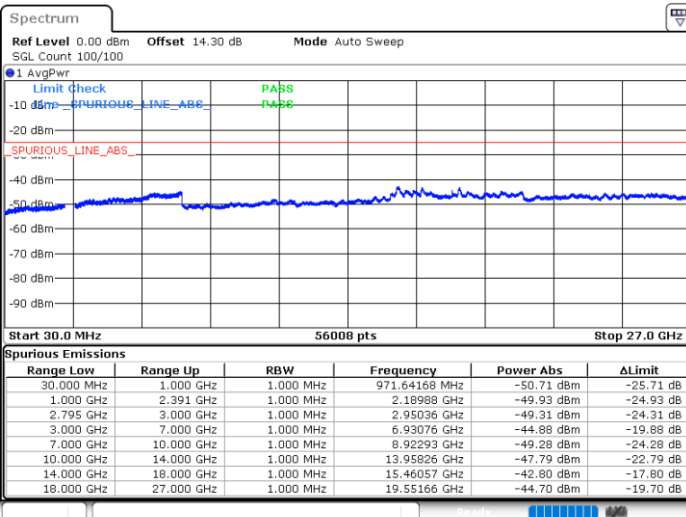


Date: 19.JAN.2021 00:21:07



Date: 19.JAN.2021 00:23:51

Highest Channel / 1RB



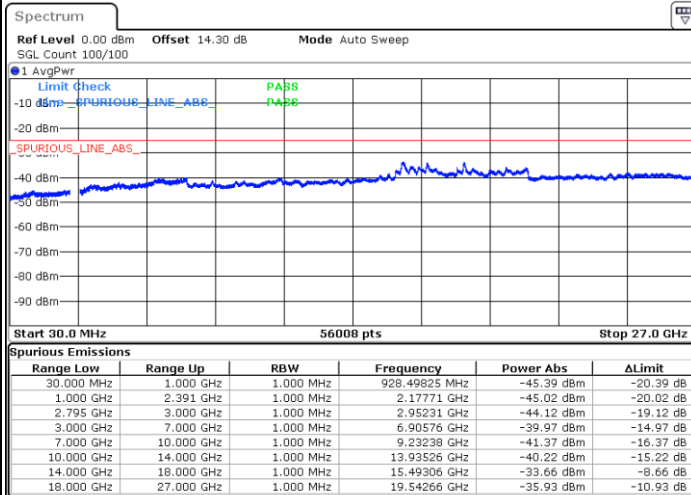
Date: 19.JAN.2021 00:24:46



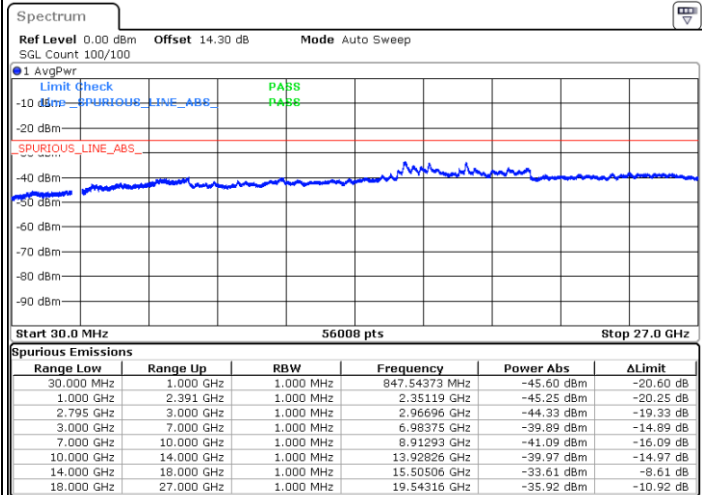
FR1 UL-MIMO n41 / 50MHz / CP-OFDM QPSK (ANT3)

Lowest Channel / 1RB

Middle Channel / 1RB

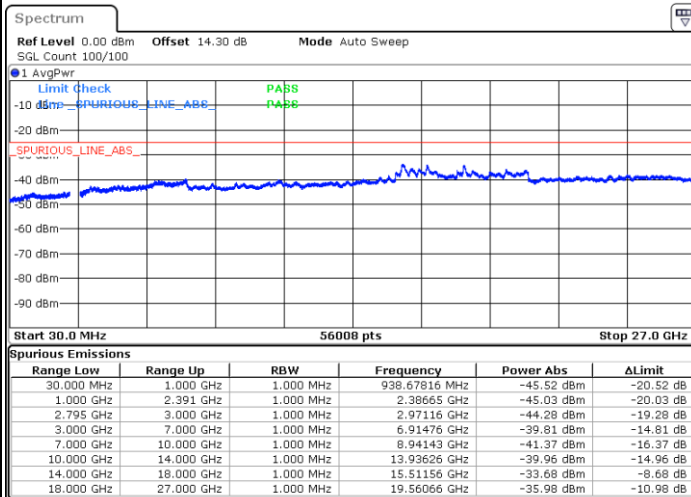


Date: 18.JAN.2021 22:08:04



Date: 18.JAN.2021 22:06:41

Highest Channel / 1RB



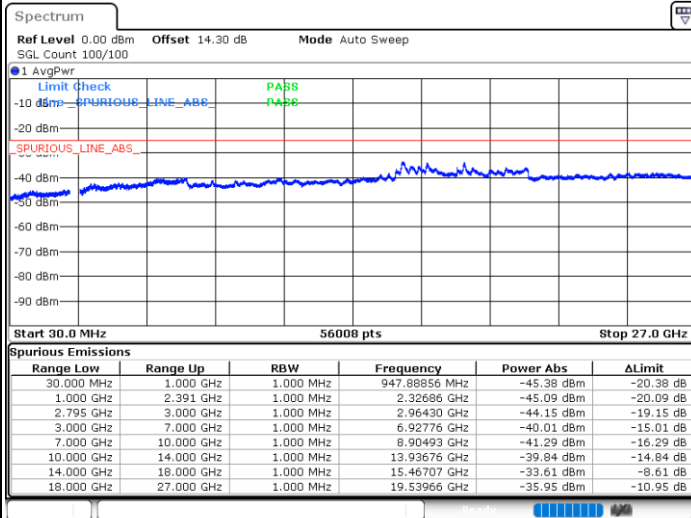
Date: 18.JAN.2021 22:03:20



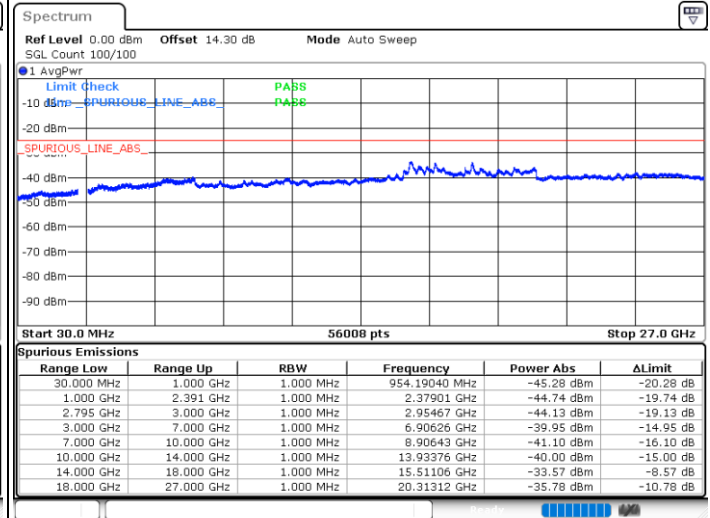
FR1 UL-MIMO n41 / 50MHz / CP-OFDM QPSK (ANT0)

Lowest Channel / 1RB

Middle Channel / 1RB

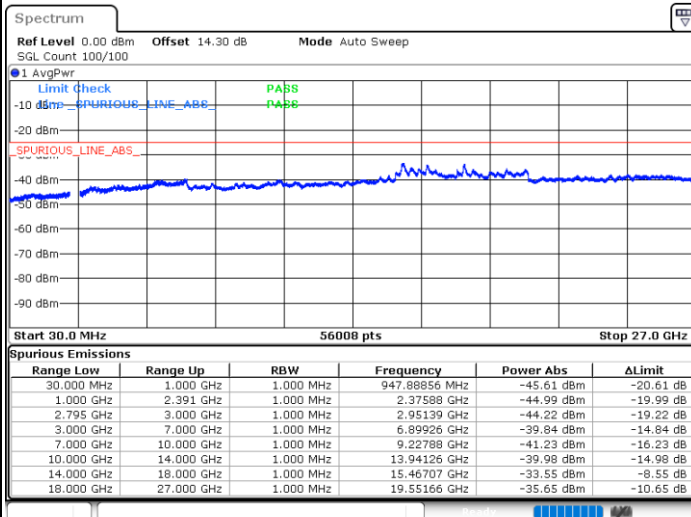


Date: 19.JAN.2021 00:07:17



Date: 19.JAN.2021 00:10:10

Highest Channel / 1RB

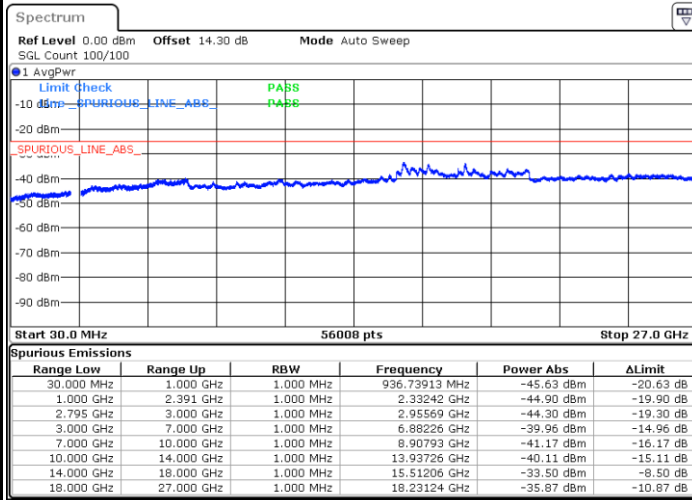


Date: 19.JAN.2021 00:11:03



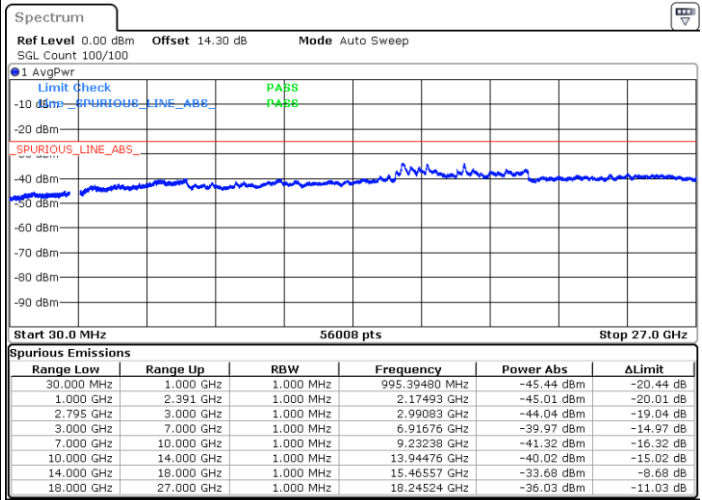
FR1 UL-MIMO n41 / 100MHz / CP-OFDM QPSK (ANT3)

Lowest Channel / 1RB



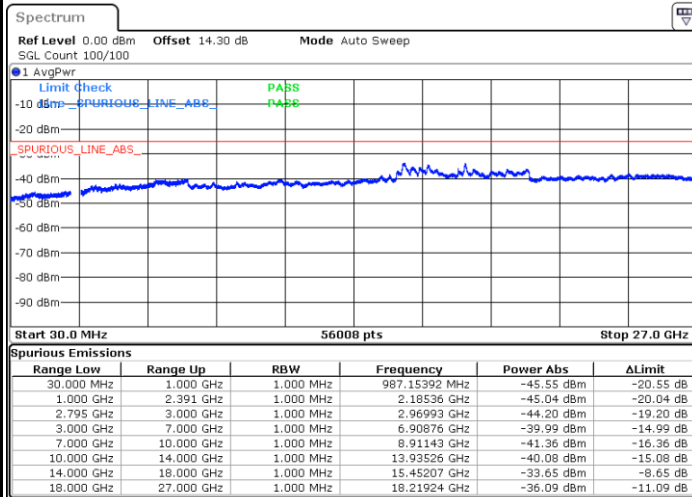
Date: 18.JAN.2021 22:36:58

Middle Channel / 1RB



Date: 18.JAN.2021 22:34:06

Highest Channel / 1RB

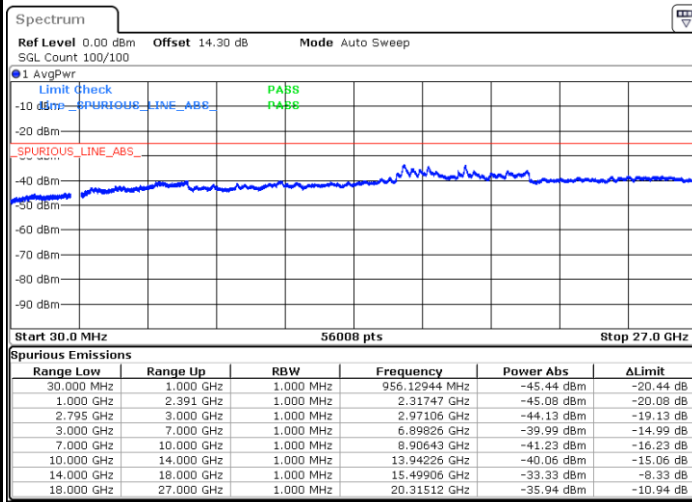


Date: 18.JAN.2021 22:33:16



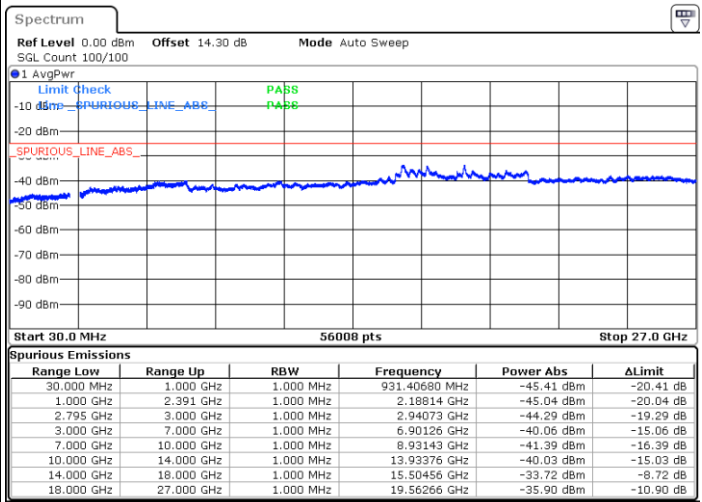
FR1 UL-MIMO n41 / 100MHz / CP-OFDM QPSK (ANT0)

Lowest Channel / 1RB



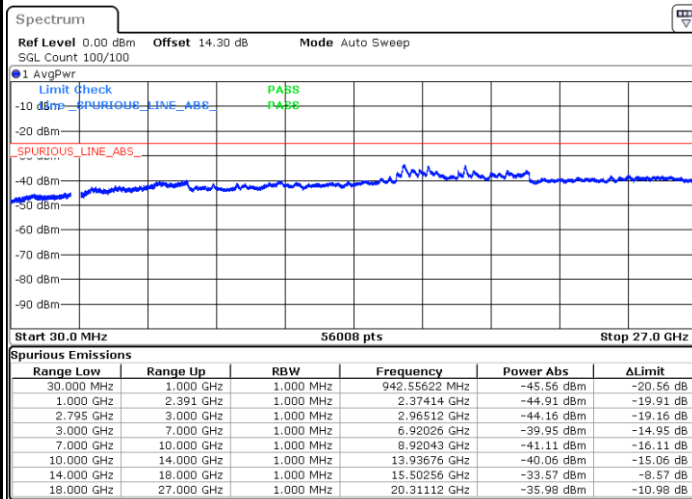
Date: 18.JAN.2021 23:24:05

Middle Channel / 1RB



Date: 18.JAN.2021 23:21:18

Highest Channel / 1RB



Date: 18.JAN.2021 23:24:59

**Frequency Stability**

Test Conditions		NR UL-MIMO n41 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Within Band
		Deviation (ppm)	Result
50	Normal Voltage	0.0022	PASS
40	Normal Voltage	0.0015	
30	Normal Voltage	0.0017	
20(Ref.)	Normal Voltage	0.0018	
10	Normal Voltage	0.0028	
0	Normal Voltage	0.0013	
-10	Normal Voltage	0.0016	
-20	Normal Voltage	0.0013	
-30	Normal Voltage	0.0017	
20	Maximum Voltage	0.0012	
20	Normal Voltage	0.0018	
20	Battery End Point	0.0021	

Note:

1. Normal Voltage =7.74 V. ; Battery End Point (BEP) =7.2 V. ; Maximum Voltage =8.9 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



5G NR n71 SA

Peak-to-Average Ratio

Mode	FR1 n71 / 20MHz / 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	3.88	3.45	5.77	5.16	PASS
Middle CH	3.54	3.97	5.25	5.16	
Highest CH	3.88	3.39	5.86	4.99	



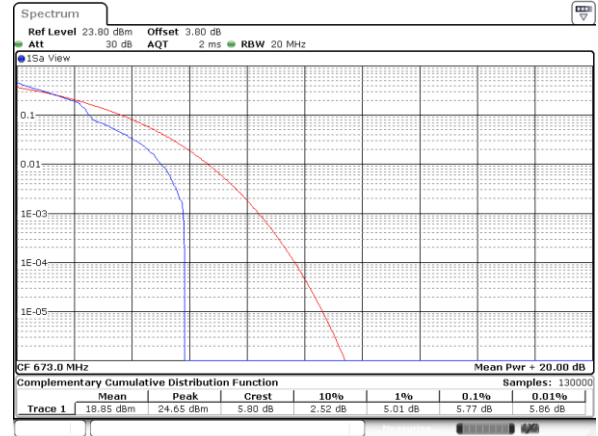
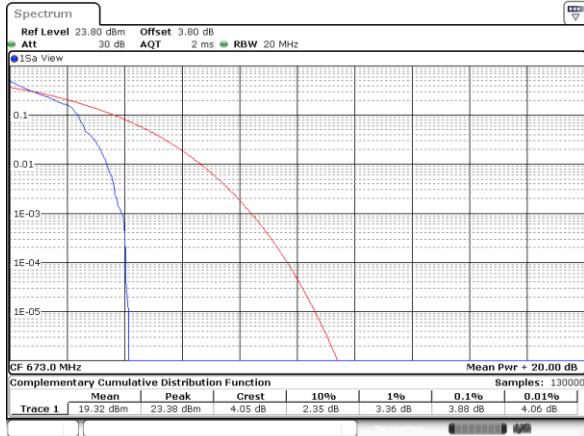
FR1 n71 / 20MHz / DFT-S OFDM

PI/2 BPSK

QPSK

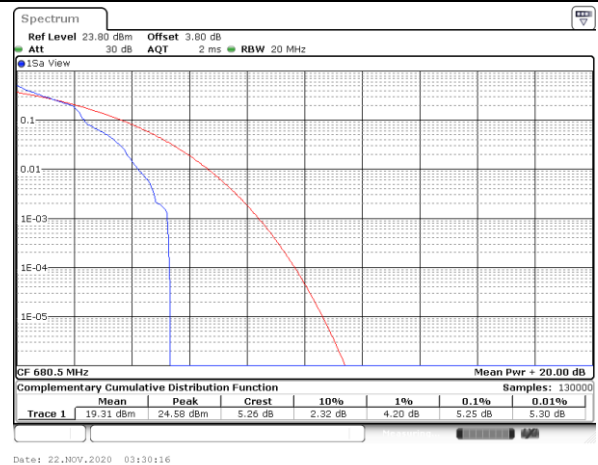
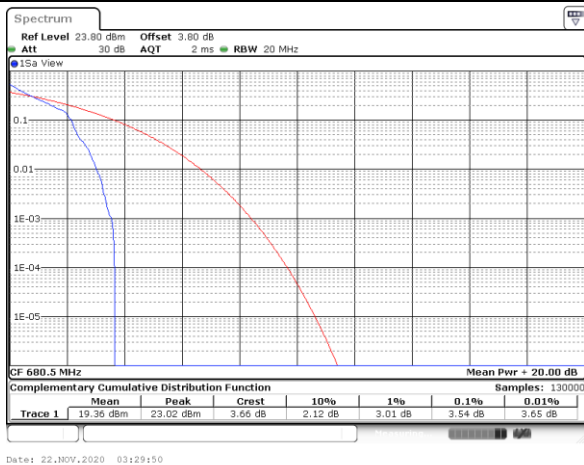
Lowest Channel / 1RB

Lowest Channel / 1RB



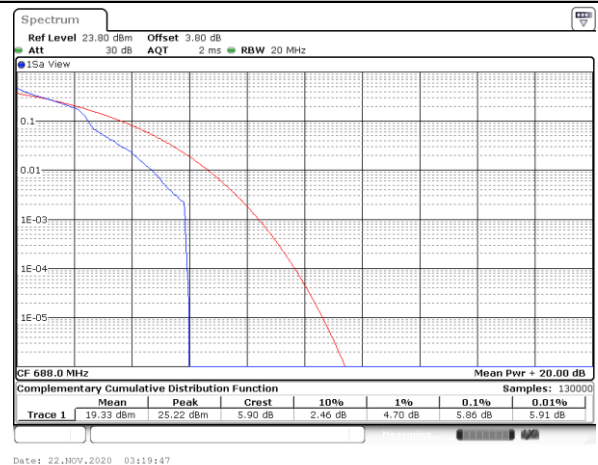
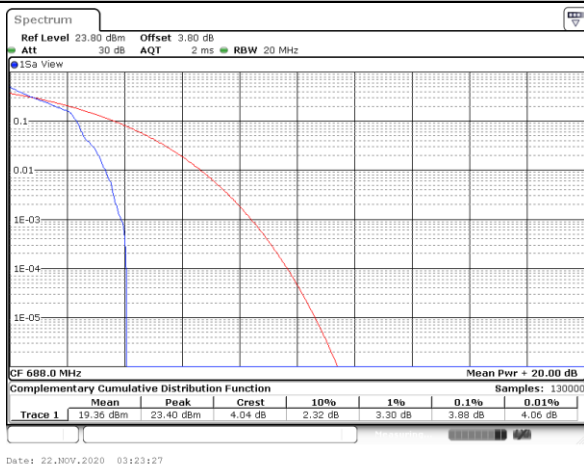
Middle Channel / 1 RB

Middle Channel / 1 RB



Highest Channel / 1 RB

Highest Channel / 1 RB





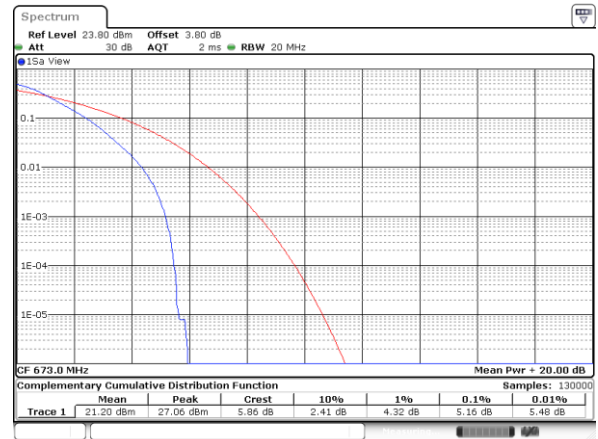
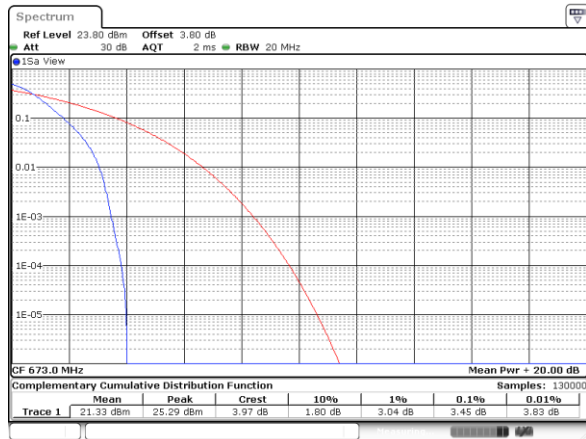
FR1 n71 / 20MHz / DFT-S OFDM

PI/2 BPSK

QPSK

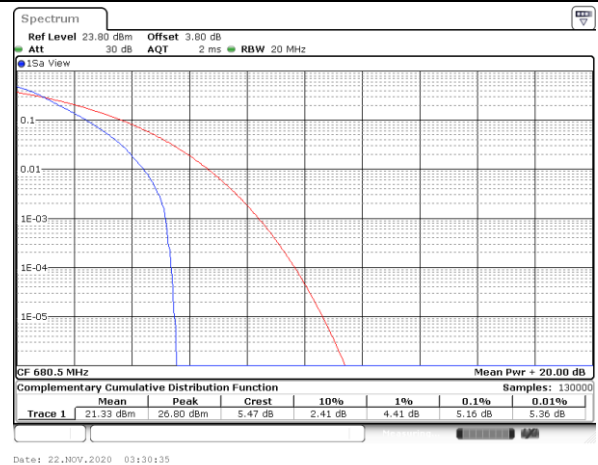
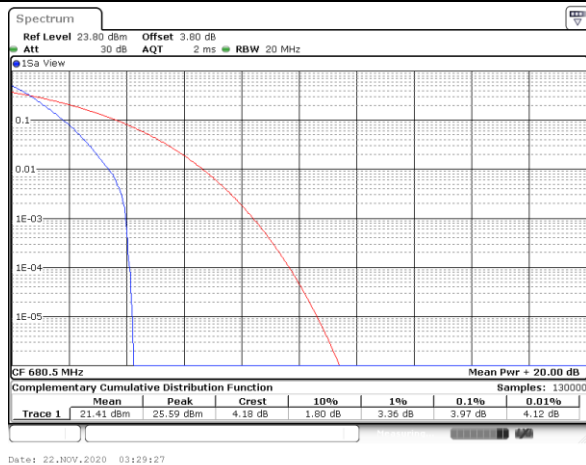
Lowest Channel / Full RB

Lowest Channel / Full RB



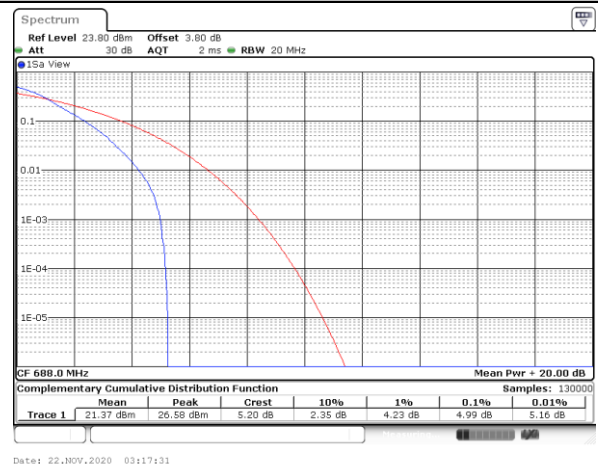
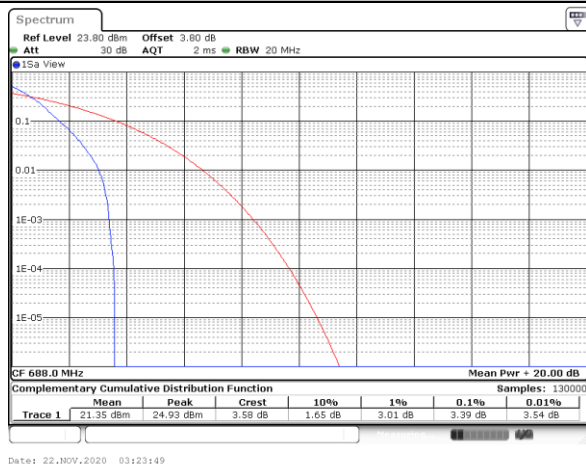
Middle Channel / Full RB

Middle Channel / Full RB



Highest Channel / Full RB

Highest Channel / Full RB



**26dB Bandwidth**

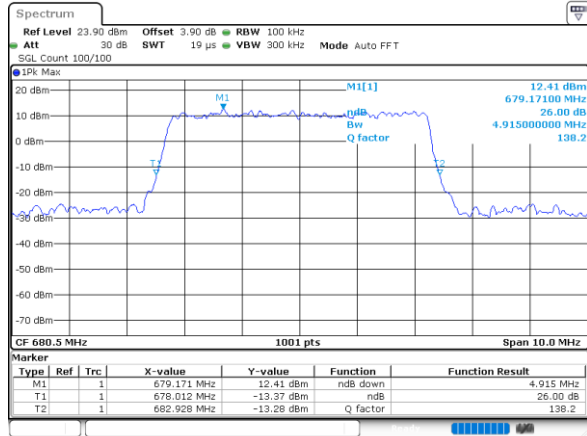
Mode	FR1 n71 : 26dB BW(MHz) / CP-OFDM			
BW	5MHz	5MHz	5MHz	5MHz
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	4.91	4.99	4.9	4.96
BW	10MHz	10MHz	10MHz	10MHz
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	9.65	9.87	9.89	9.89
BW	15MHz	15MHz	15MHz	15MHz
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	14.92	15.1	14.92	14.92
BW	20MHz	20MHz	20MHz	20MHz
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	20.02	19.9	19.98	19.82



FR1 n71 / 5MHz / CP-OFDM

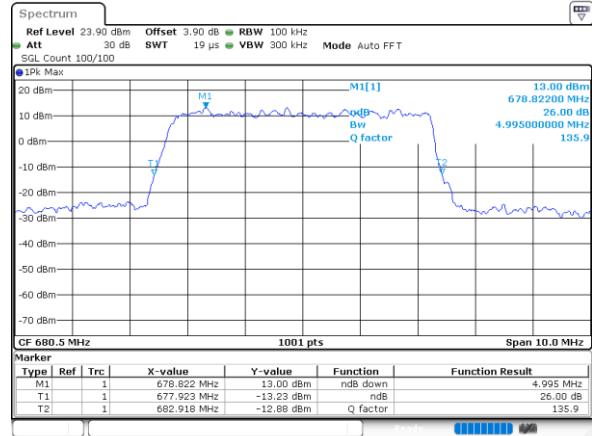
QPSK

Middle Channel



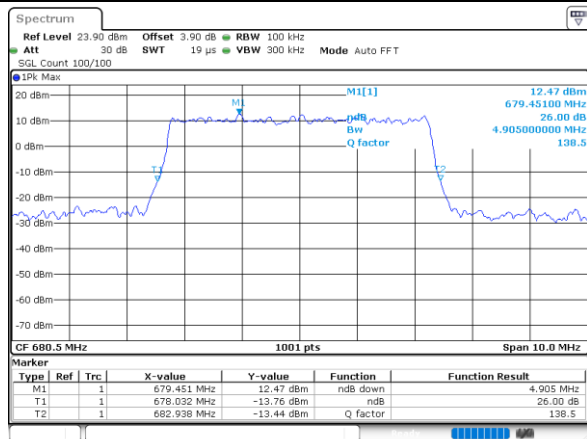
16QAM

Middle Channel



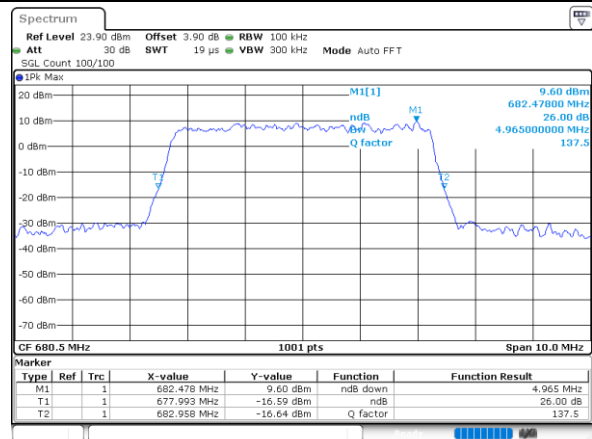
64QAM

Middle Channel



256QAM

Middle Channel

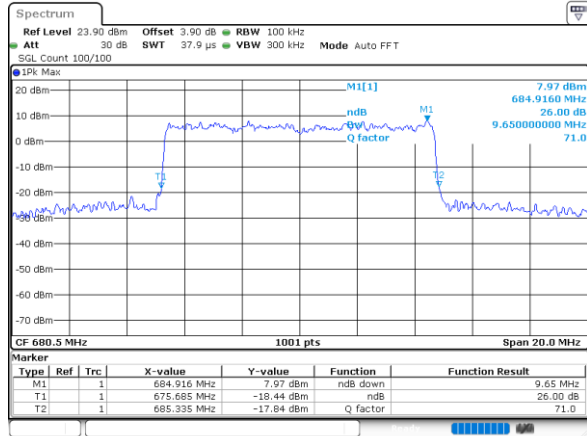




FR1 n71 / 10MHz / CP-OFDM

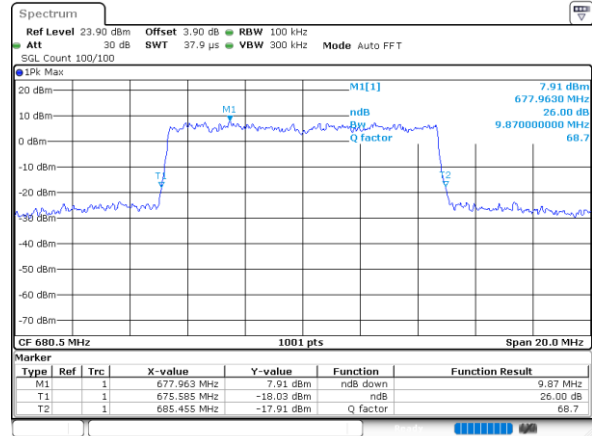
QPSK

Middle Channel



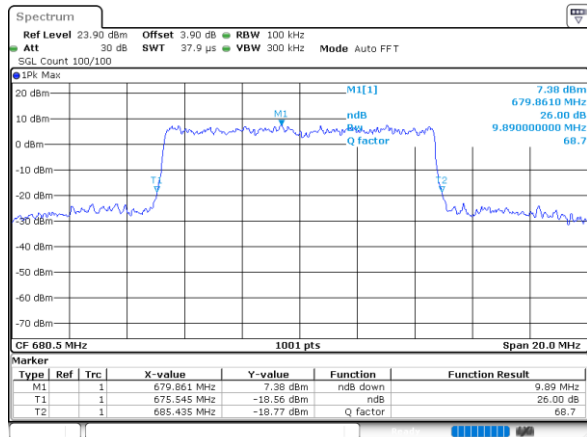
16QAM

Middle Channel



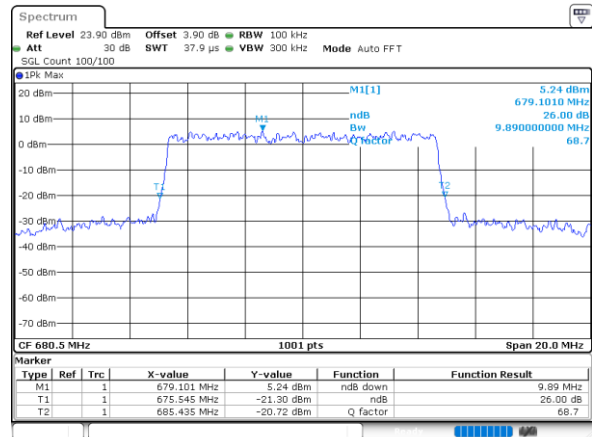
64QAM

Middle Channel



256QAM

Middle Channel

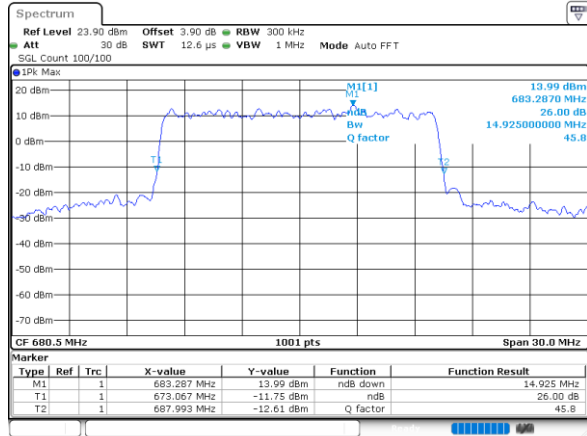




FR1 n71 / 15MHz / CP-OFDM

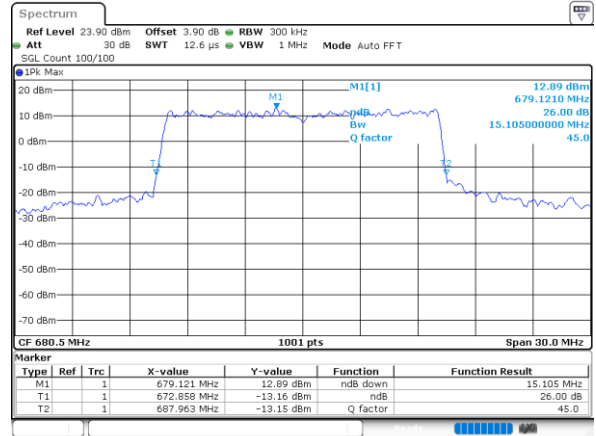
QPSK

Middle Channel



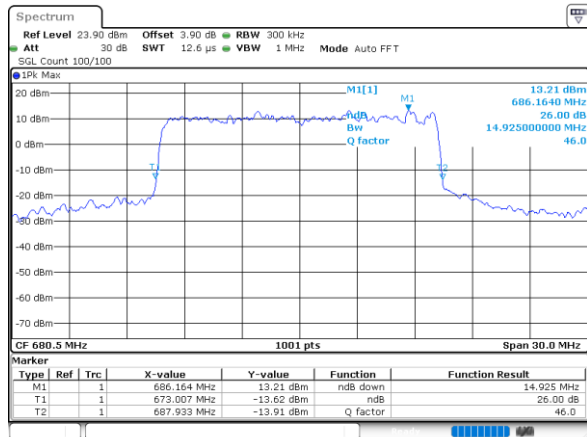
16QAM

Middle Channel



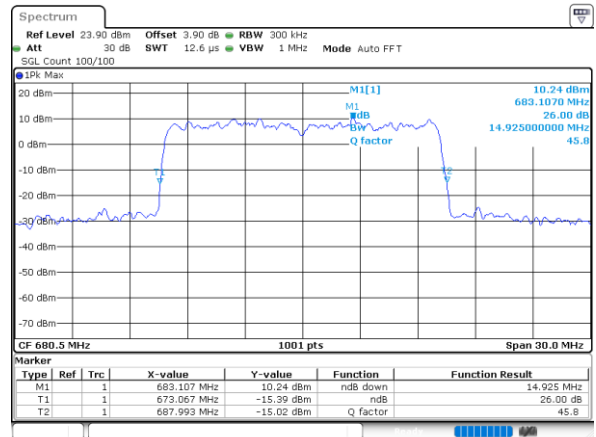
64QAM

Middle Channel



256QAM

Middle Channel

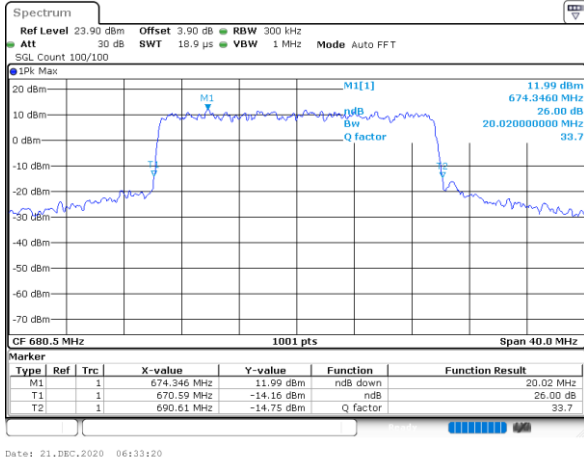




FR1 n71 / 20MHz / CP-OFDM

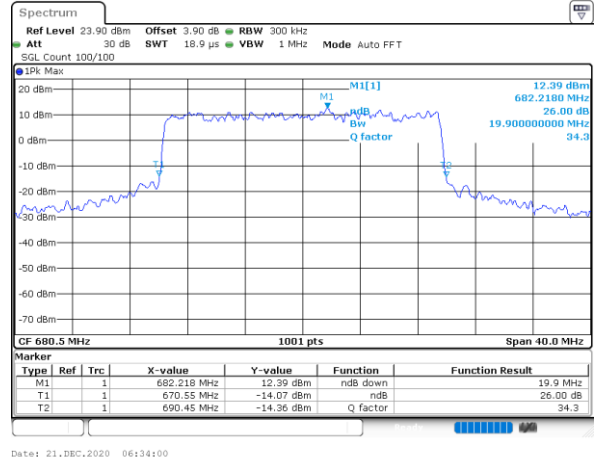
QPSK

Middle Channel



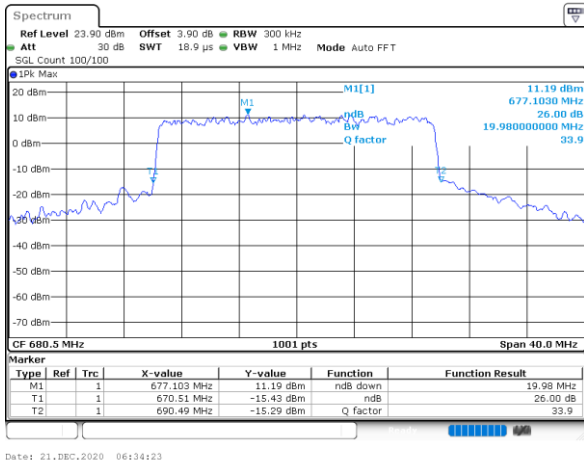
16QAM

Middle Channel



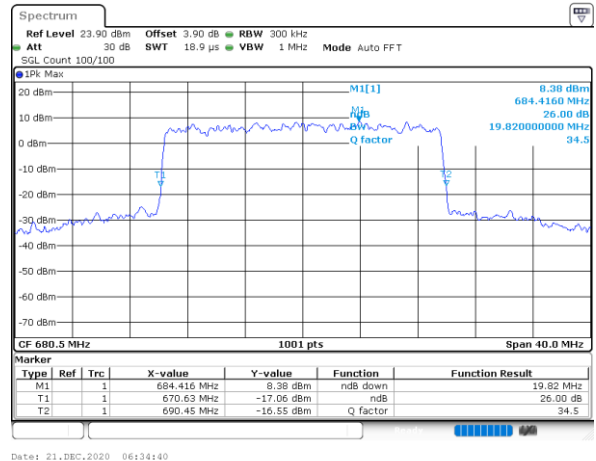
64QAM

Middle Channel



256QAM

Middle Channel



**Occupied Bandwidth**

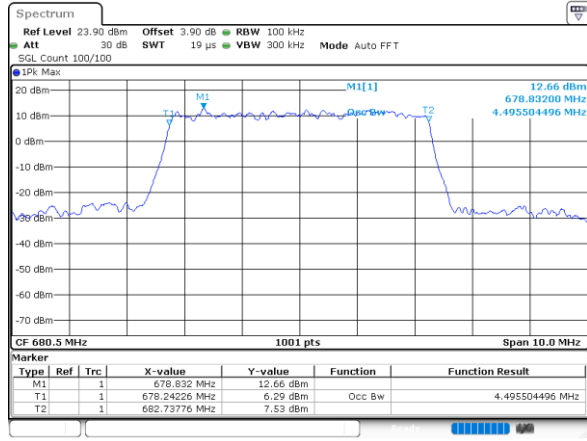
Mode	FR1 n71 : OBW(MHz) / CP-OFDM			
BW	5MHz	5MHz	5MHz	5MHz
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	4.49	4.48	4.48	4.47
BW	10MHz	10MHz	10MHz	10MHz
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	9.33	9.29	9.27	9.27
BW	15MHz	15MHz	15MHz	15MHz
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	14.17	14.14	14.17	14.08
BW	20MHz	20MHz	20MHz	20MHz
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	18.98	18.94	18.94	18.94



FR1 n71 / 5MHz / CP-OFDM

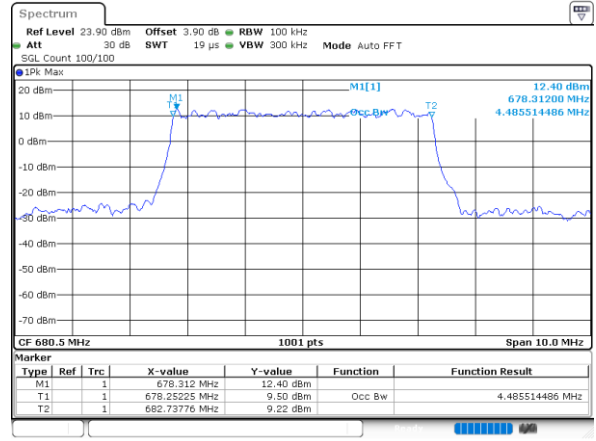
QPSK

Middle Channel



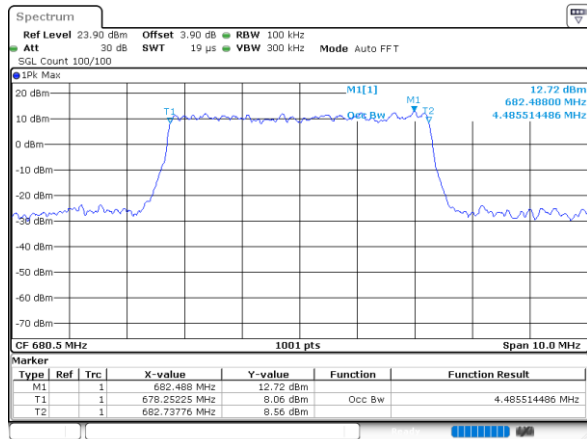
16QAM

Middle Channel



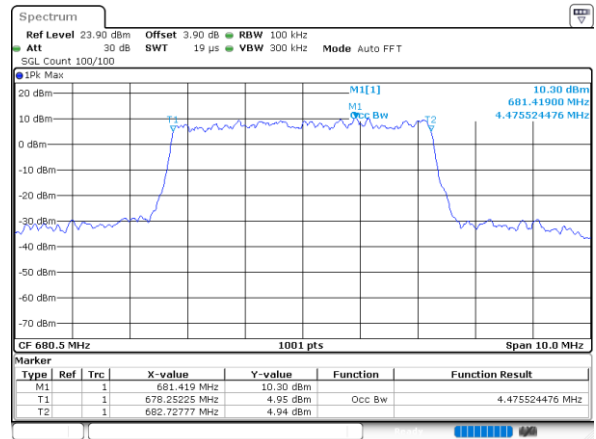
64QAM

Middle Channel



256QAM

Middle Channel

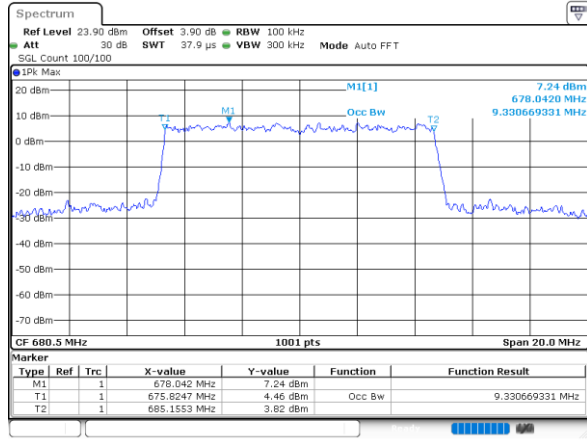




FR1 n71 / 10MHz / CP-OFDM

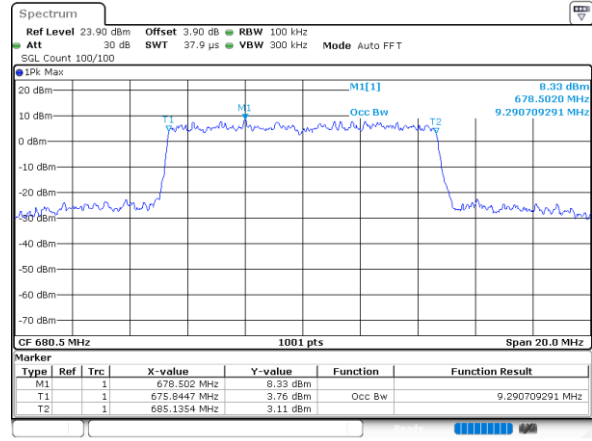
QPSK

Middle Channel



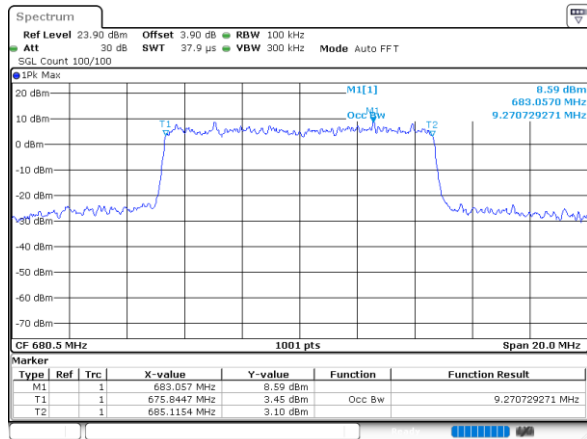
16QAM

Middle Channel



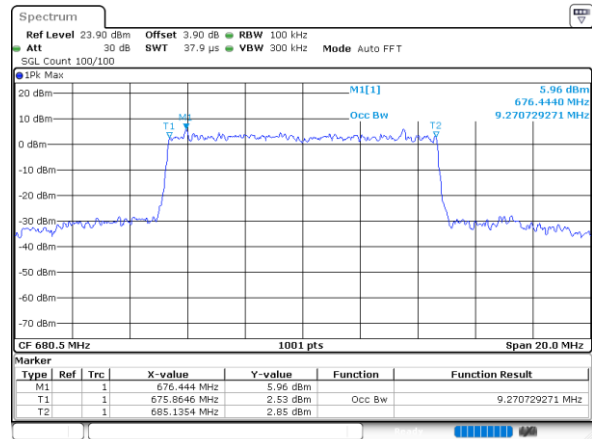
64QAM

Middle Channel



256QAM

Middle Channel





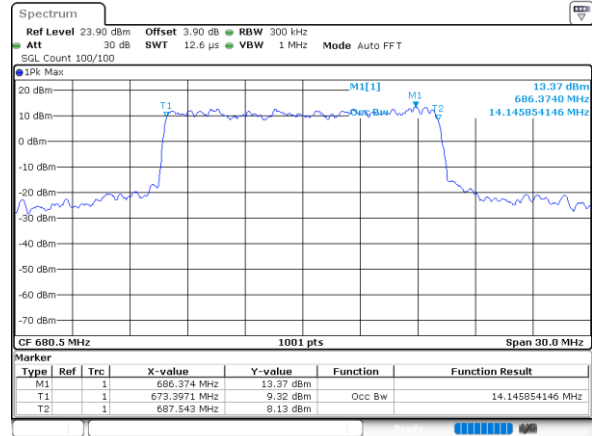
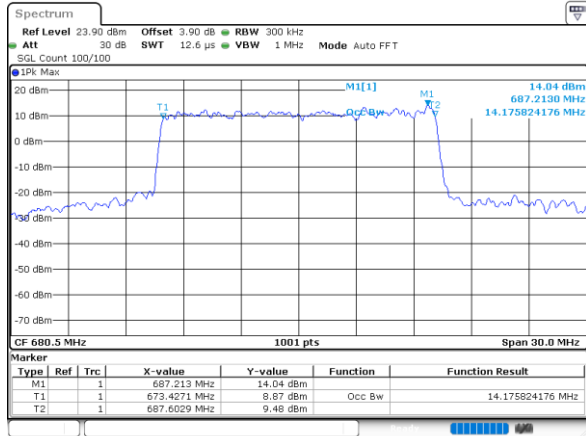
FR1 n71 / 15MHz / CP-OFDM

QPSK

16QAM

Middle Channel

Middle Channel

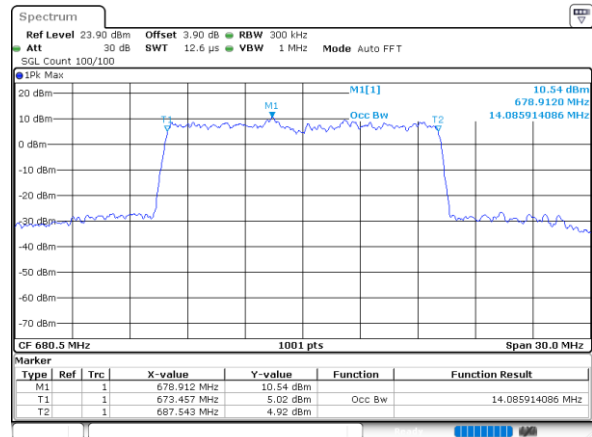
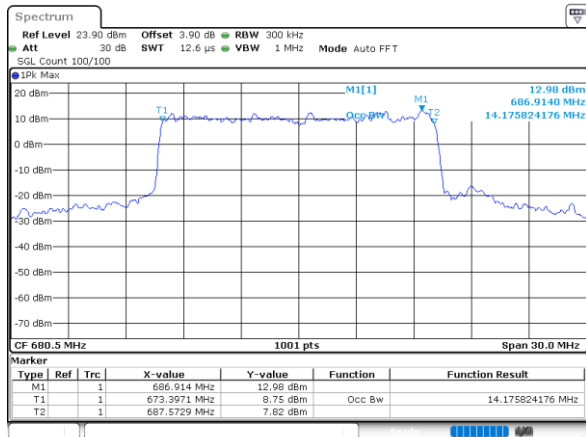


64QAM

256QAM

Middle Channel

Middle Channel

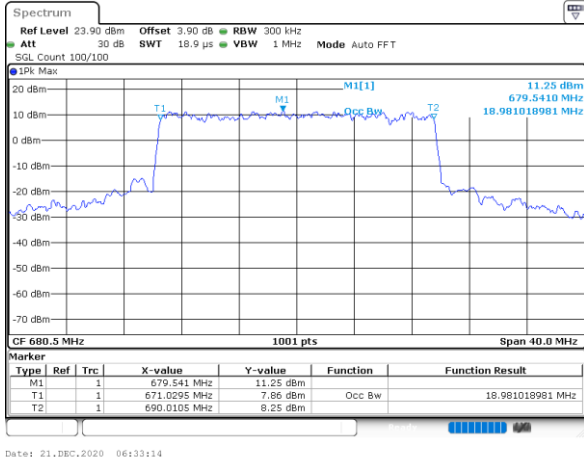




FR1 n71 / 20MHz / CP-OFDM

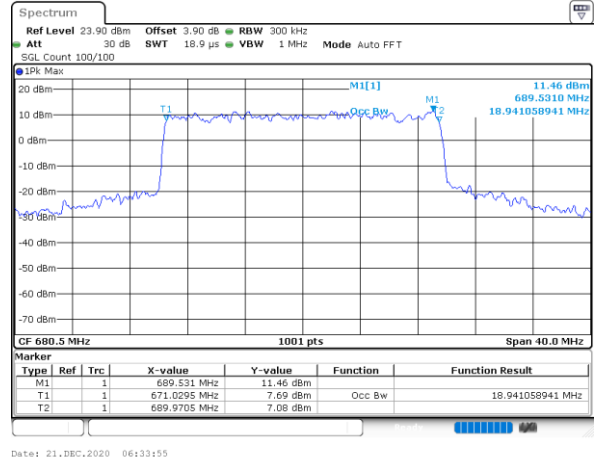
QPSK

Middle Channel



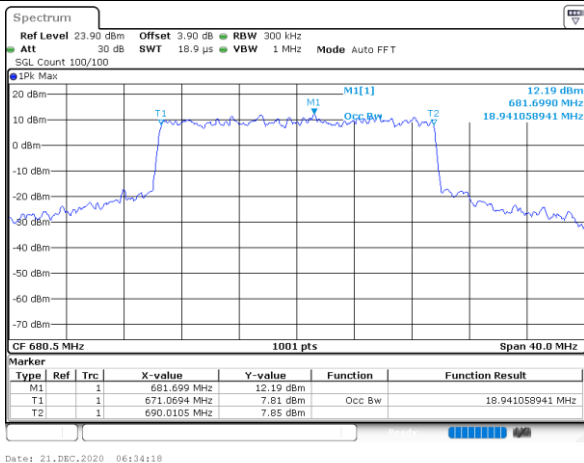
16QAM

Middle Channel



64QAM

Middle Channel



256QAM

Middle Channel

