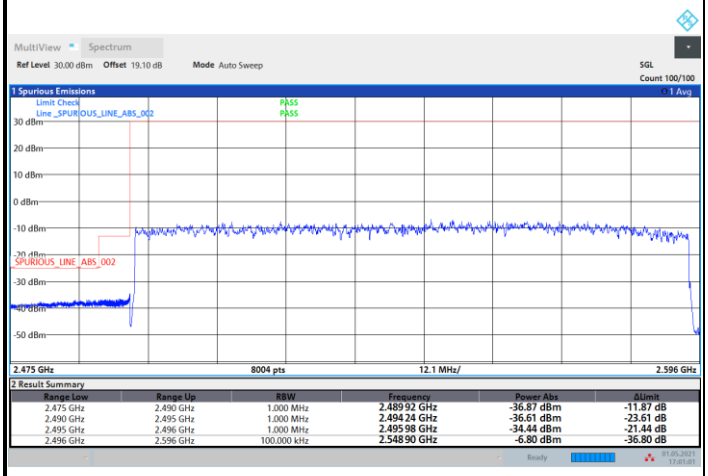
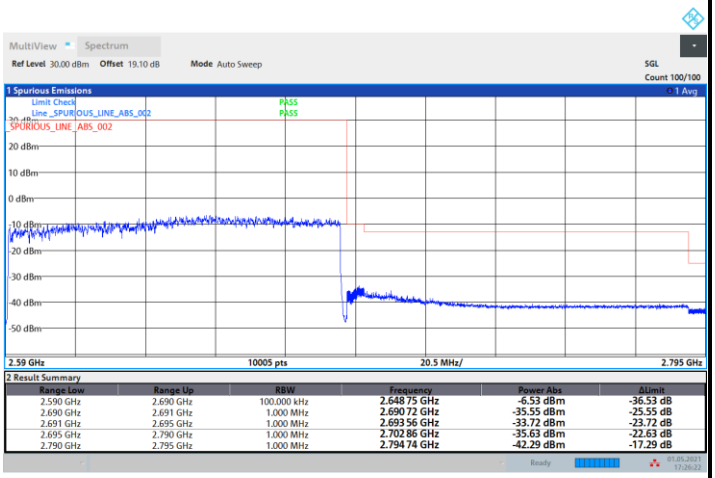
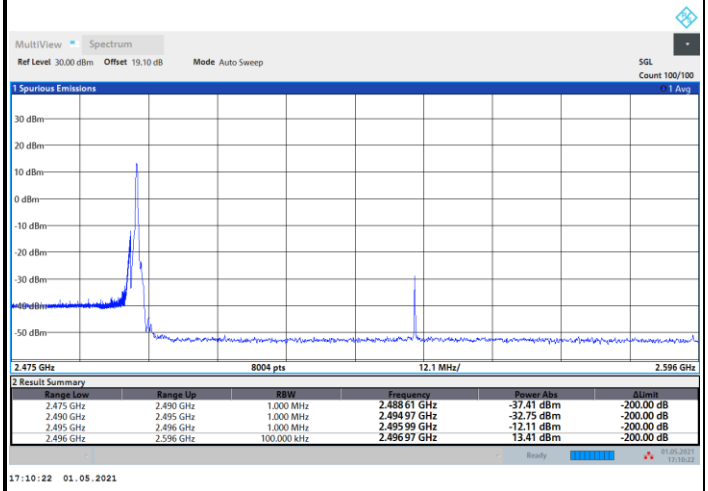
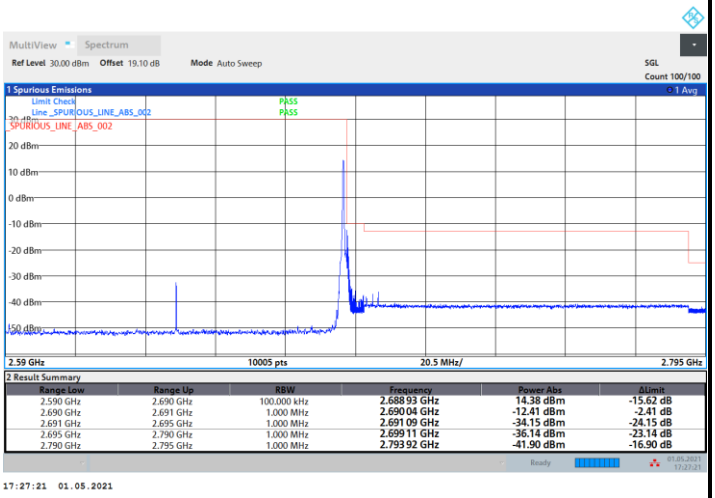
Lowest Band Edge / Full RB	Highest Band Edge / Full RB
	

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

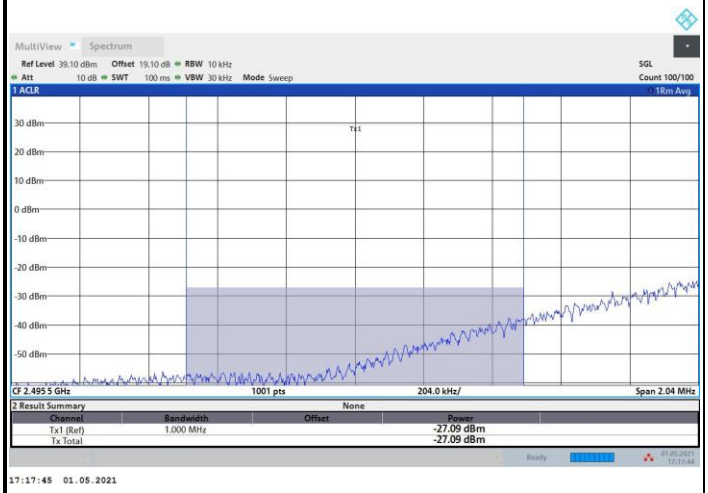
Lowest Band Edge / 1RB0



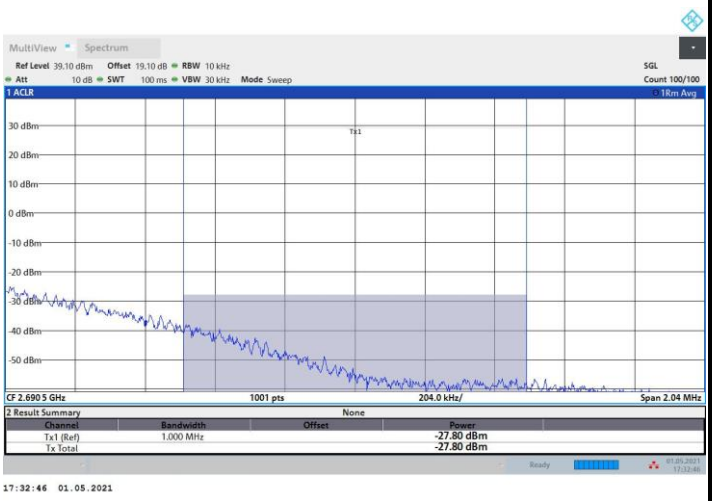
Highest Band Edge / 1RBmax

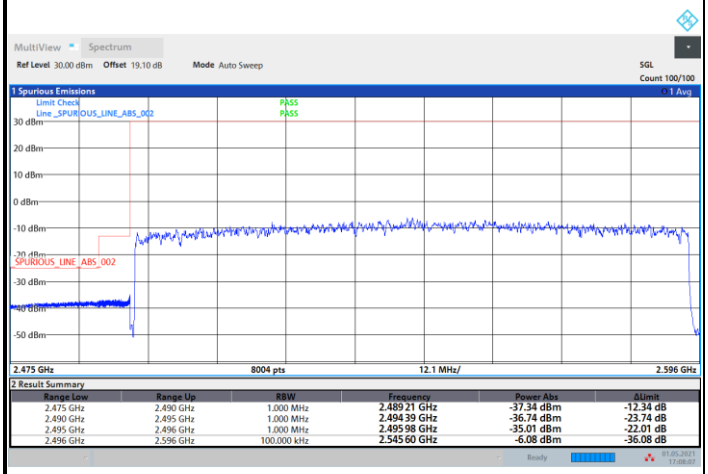
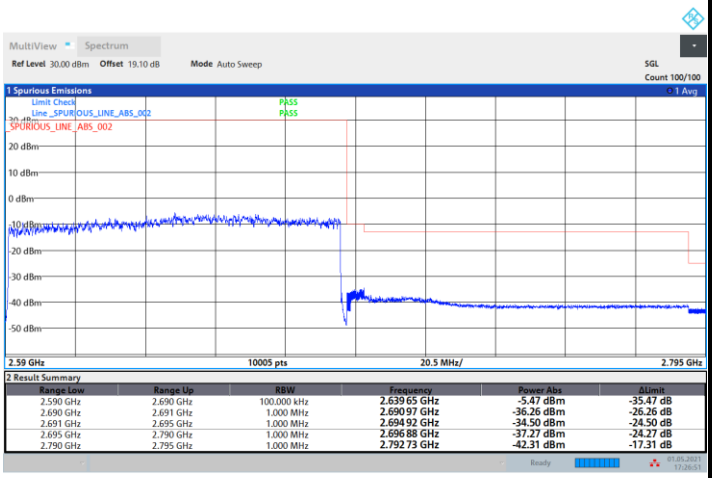


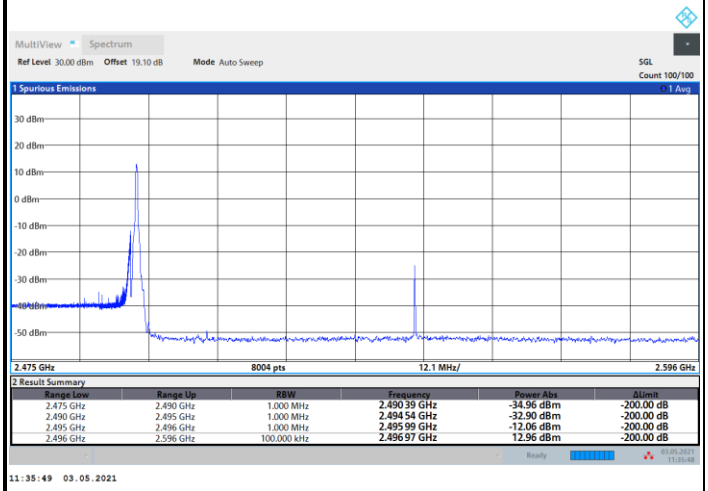
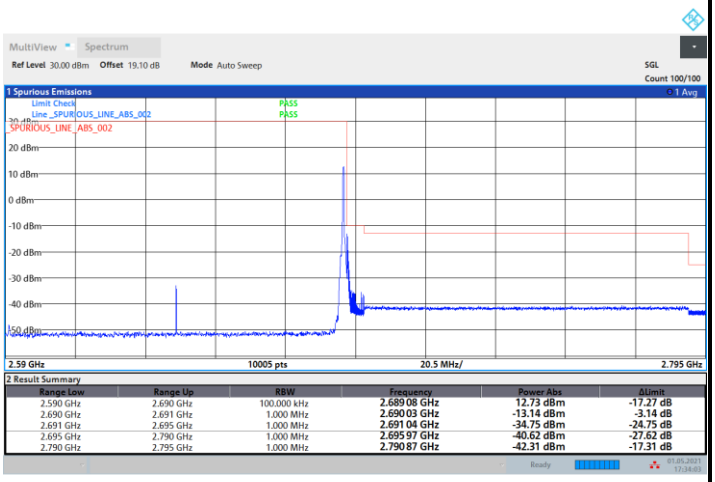
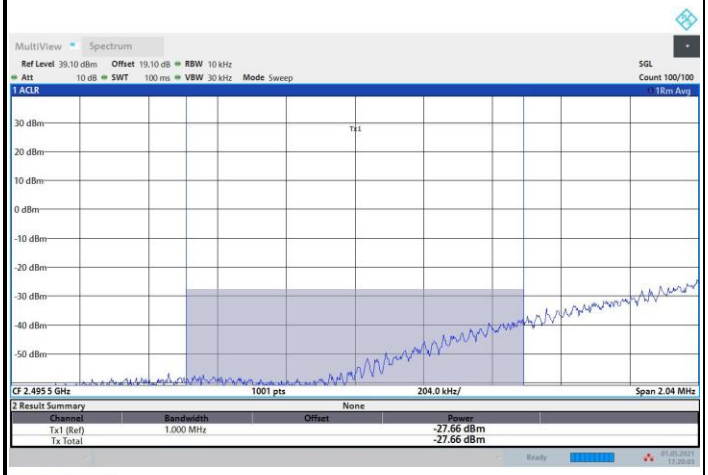
Channel power -13 dBm > -27.09 dBm (Pass)

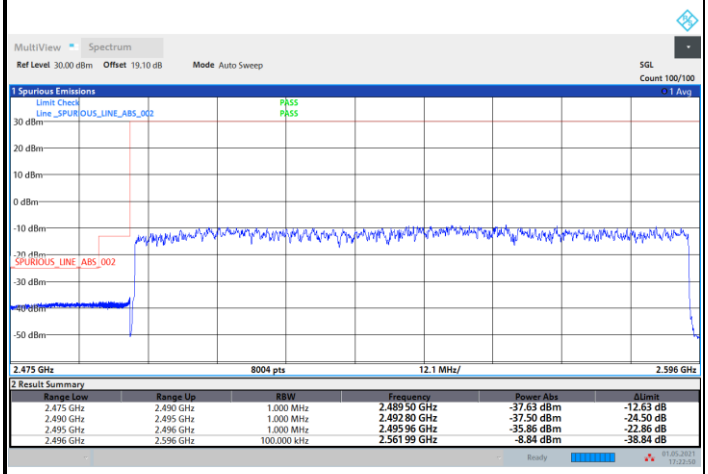
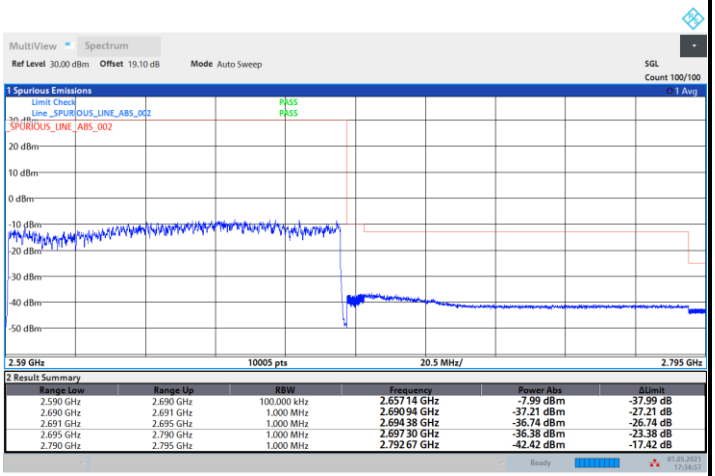


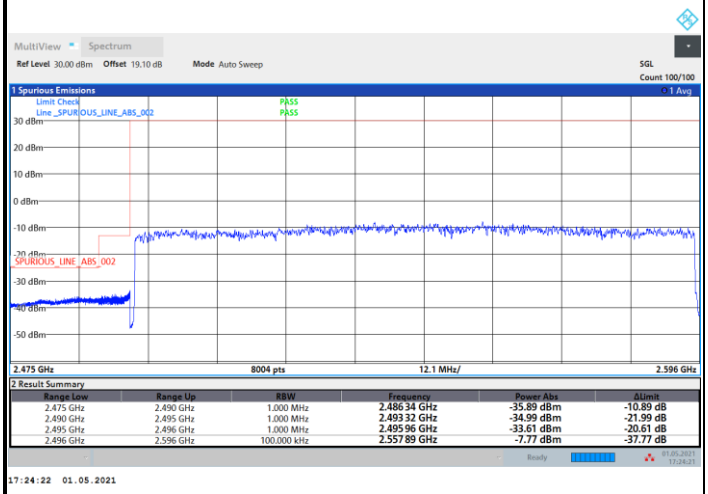
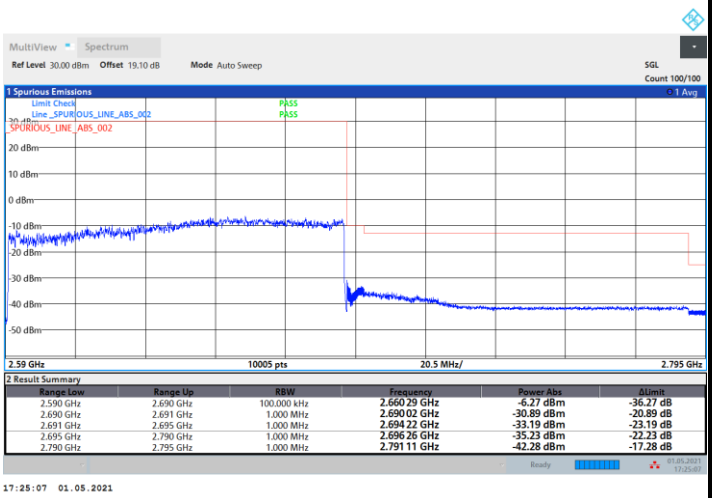
Channel power -13 dBm > -27.80 dBm (Pass)



Lowest Band Edge / Full RB	Highest Band Edge / Full RB
	

FR1 n41 / 100MHz / DFT-S OFDM / 256QAM	
Lowest Band Edge / 1RB0	**Highest Band Edge / 1RBmax**
 11:35:49 03.05.2021	 17:34:03 01.05.2021
Channel power -13 dBm > -27.66 dBm (Pass)	
 17:20:03 01.05.2021	

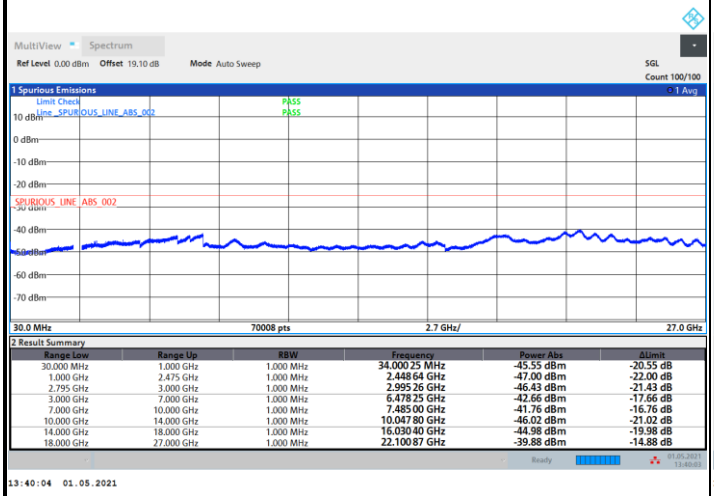
Lowest Band Edge / Full RB	Highest Band Edge / Full RB
	

FR1 n41 / 100MHz / CP OFDM / QPSK / Full RB	
Lowest Band Edge	**Highest Band Edge**
	

Conducted Spurious Emission

FR1 n41 / 20MHz / DFT-S OFDM / QPSK / 1RB1

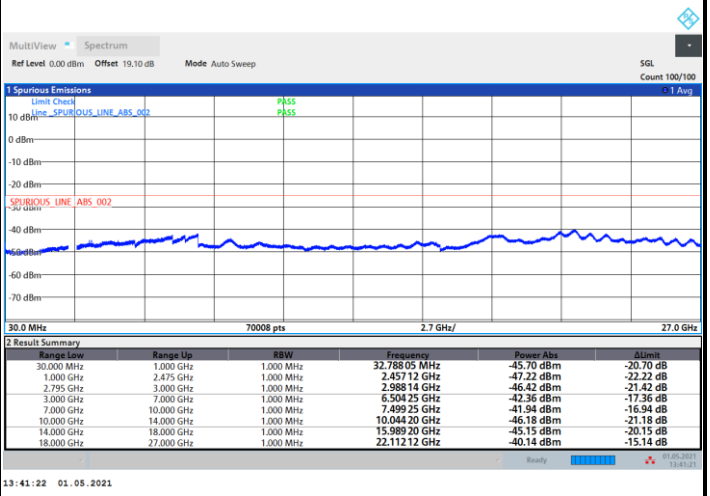
Lowest Channel



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	34.000 25 MHz	-45.55 dBm	-20.55 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.448 64 GHz	-47.00 dBm	-22.00 dB
2.795 GHz	3.000 GHz	1.000 MHz	2.995 26 GHz	-46.43 dBm	-21.43 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.478 25 GHz	-42.66 dBm	-17.66 dB
7.000 GHz	10.000 GHz	1.000 MHz	7.485 00 GHz	-41.76 dBm	-16.76 dB
10.000 GHz	14.000 GHz	1.000 MHz	10.047 80 GHz	-46.02 dBm	-21.02 dB
14.000 GHz	18.000 GHz	1.000 MHz	16.030 40 GHz	-44.98 dBm	-19.98 dB
18.000 GHz	27.000 GHz	1.000 MHz	22.100 87 GHz	-39.88 dBm	-14.88 dB

13:40:04 01.05.2021

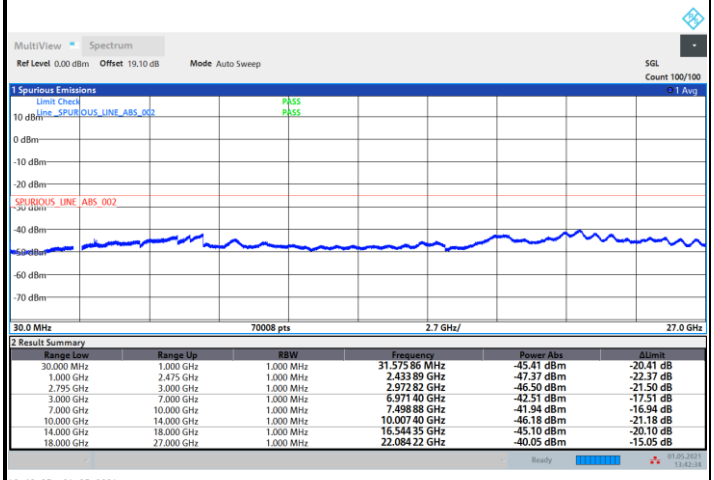
Middle Channel



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	32.788 05 MHz	-45.70 dBm	-20.70 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.457 12 GHz	-47.22 dBm	-22.22 dB
2.795 GHz	3.000 GHz	1.000 MHz	2.988 14 GHz	-46.42 dBm	-21.42 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.504 25 GHz	-42.36 dBm	-17.36 dB
7.000 GHz	10.000 GHz	1.000 MHz	7.499 25 GHz	-41.94 dBm	-16.94 dB
10.000 GHz	14.000 GHz	1.000 MHz	10.044 20 GHz	-46.18 dBm	-21.18 dB
14.000 GHz	18.000 GHz	1.000 MHz	15.989 20 GHz	-45.15 dBm	-20.15 dB
18.000 GHz	27.000 GHz	1.000 MHz	22.112 12 GHz	-40.14 dBm	-15.14 dB

13:41:22 01.05.2021

Highest Channel



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	31.575 86 MHz	-45.41 dBm	-20.41 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.433 89 GHz	-47.37 dBm	-22.37 dB
2.795 GHz	3.000 GHz	1.000 MHz	2.972 82 GHz	-46.50 dBm	-21.50 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.971 40 GHz	-42.51 dBm	-17.51 dB
7.000 GHz	10.000 GHz	1.000 MHz	7.498 88 GHz	-41.94 dBm	-16.94 dB
10.000 GHz	14.000 GHz	1.000 MHz	10.007 40 GHz	-46.18 dBm	-21.18 dB
14.000 GHz	18.000 GHz	1.000 MHz	16.544 35 GHz	-45.10 dBm	-20.10 dB
18.000 GHz	27.000 GHz	1.000 MHz	22.084 22 GHz	-40.05 dBm	-15.05 dB

13:42:35 01.05.2021

Frequency Stability

Test Conditions		FR1 n41 (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0003	PASS
40	Normal Voltage	0.0043	
30	Normal Voltage	0.0047	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0057	
0	Normal Voltage	0.0003	
-10	Normal Voltage	0.0068	
-20	Normal Voltage	0.0013	
-30	Normal Voltage	0.0062	
20	Maximum Voltage	0.0070	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0069	

Note:

1. Normal Voltage =3.87 V.；Battery End Point (BEP) =3.67 V.；Maximum Voltage =4.26 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

FR1 n66

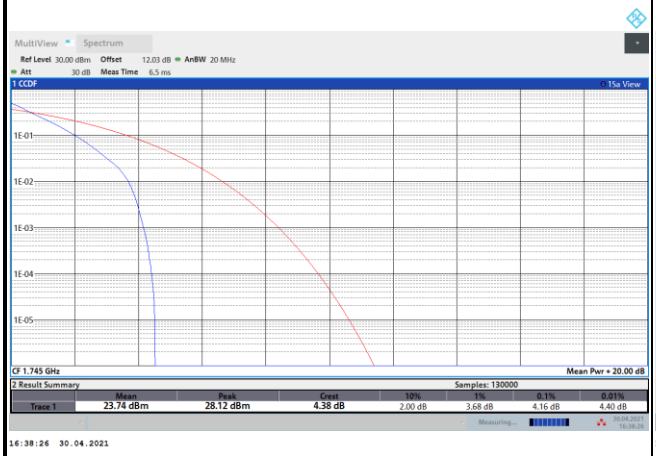
<Main>

Peak-to-Average Ratio

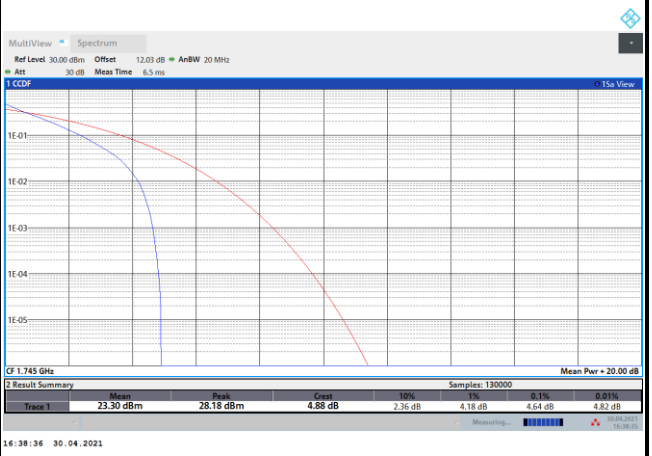
Mode	FR1 n66 / 20MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.16	4.64	5.66	6.10	PASS
Mode	FR1 n66 / 20MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Middle CH	6.64				PASS

FR1 n66 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

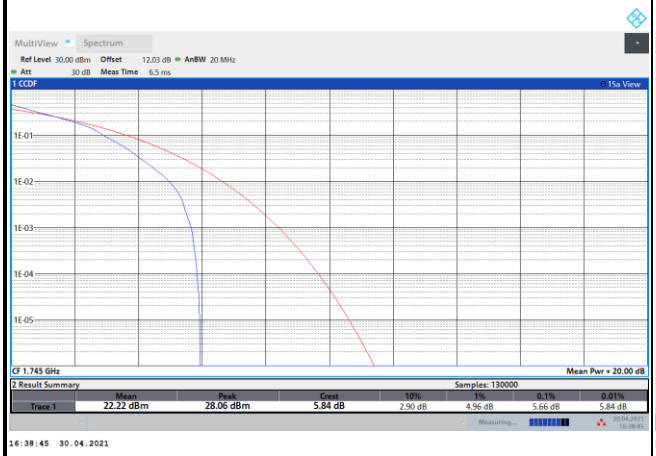
PI/2 BPSK



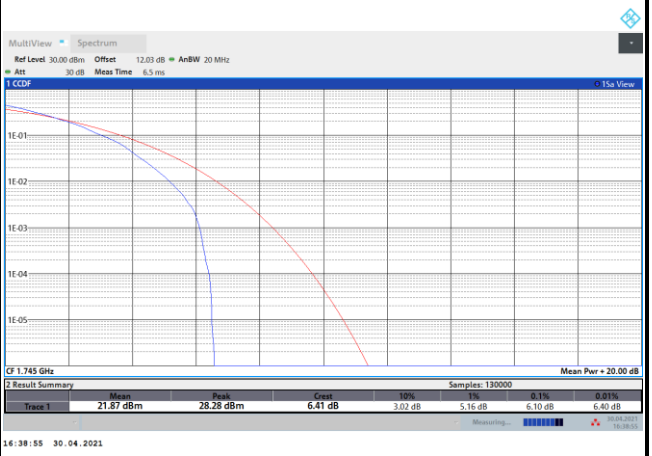
QPSK



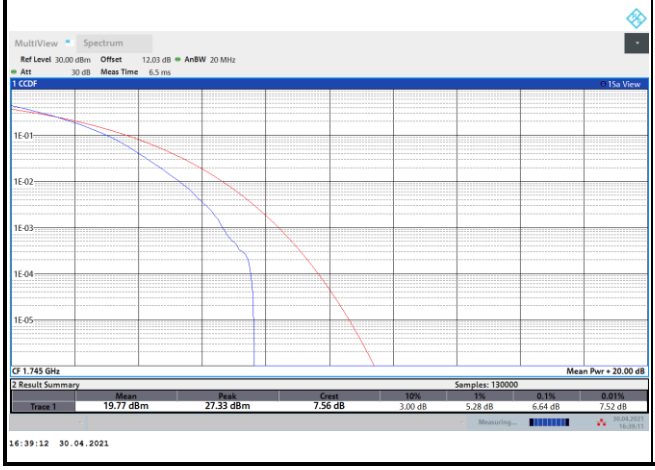
16QAM



64QAM



256QAM



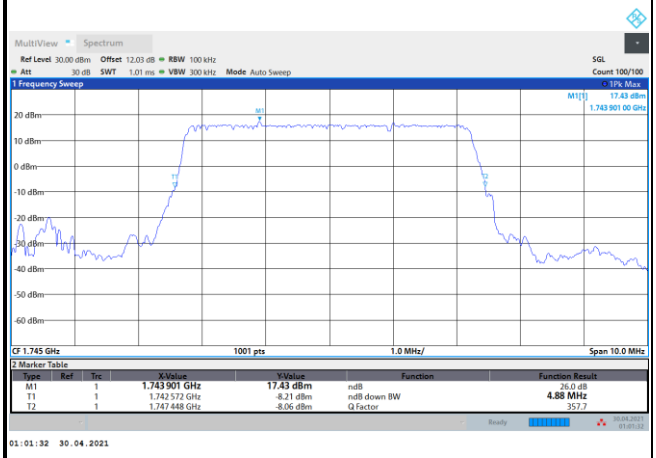
26dB Bandwidth

Mode	FR1 n66 : 26dB BW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	PI/2 BPSK		PI/2 BPSK		PI/2 BPSK		PI/2 BPSK	
Middle CH	4.88		9.49		14.30		18.74	

Mode	FR1 n66 : 26dB BW(MHz) / CP OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	5.01	4.91	9.87	9.75	14.93	15.02	19.86	20.02
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	4.95	4.96	9.87	9.75	14.90	14.96	19.82	19.98

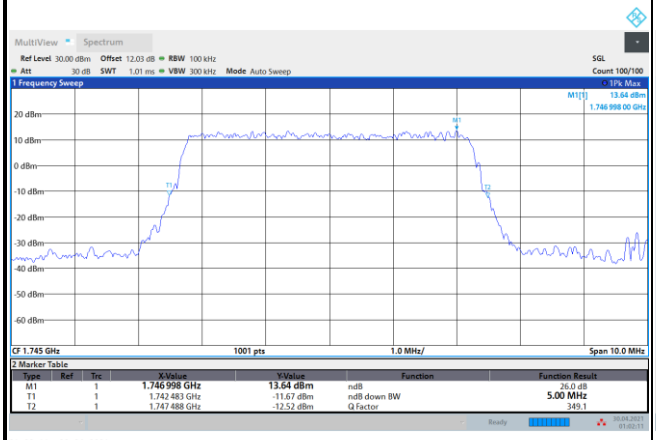
FR1 n66 / 5MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

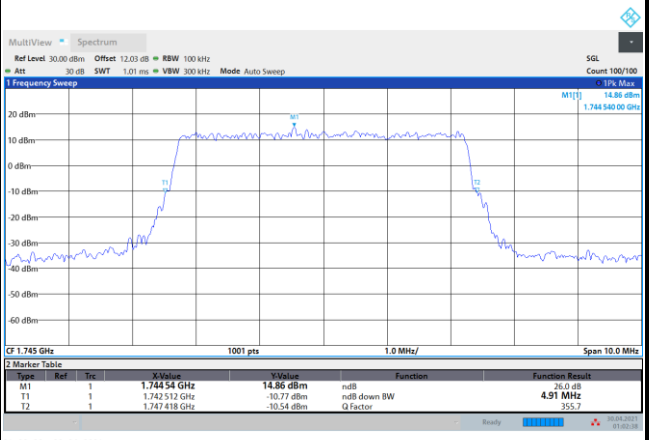


FR1 n66 / 5MHz / CP OFDM / Middle Channel / Full RB

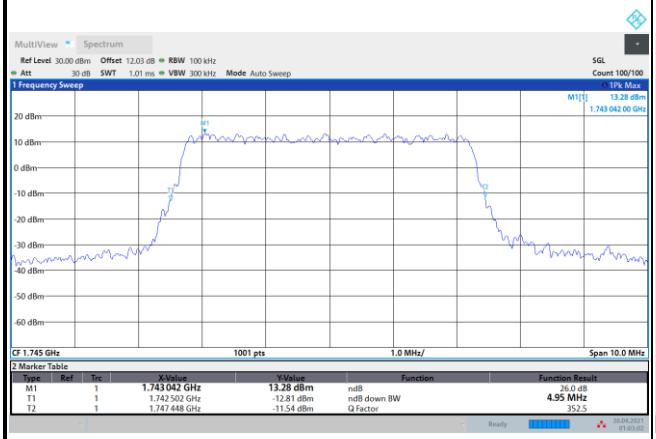
QPSK



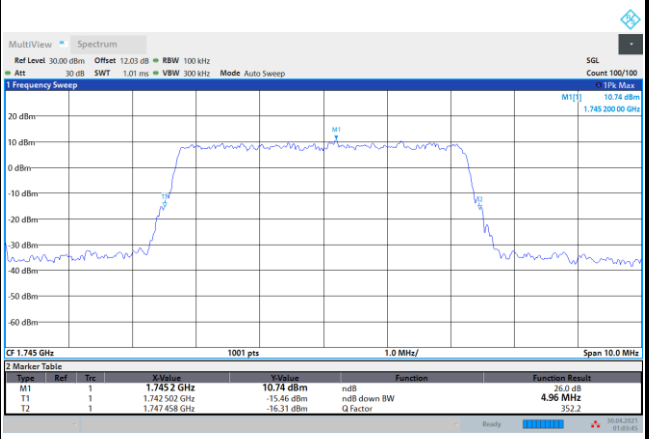
16QAM



64QAM

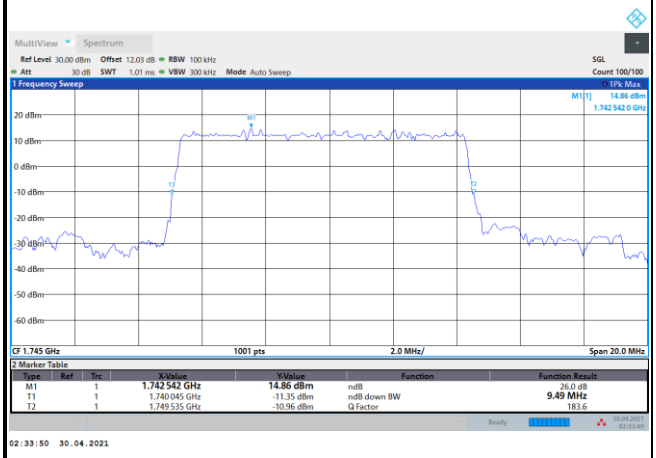


256QAM



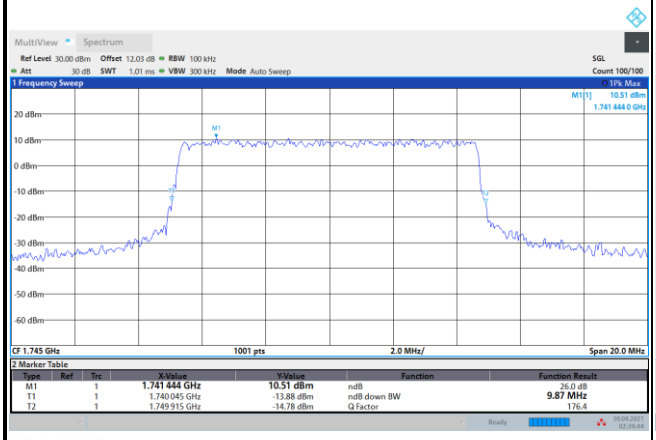
FR1 n66 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



FR1 n66 / 10MHz / CP OFDM / Middle Channel / Full RB

QPSK



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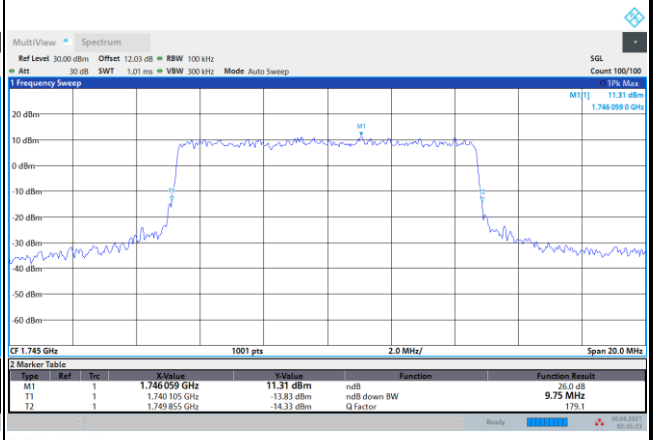

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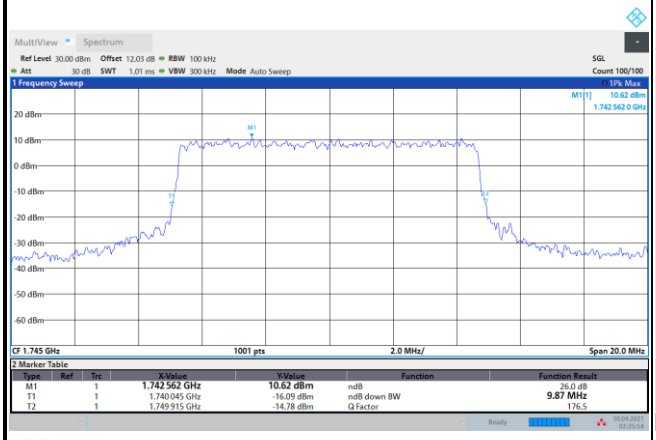

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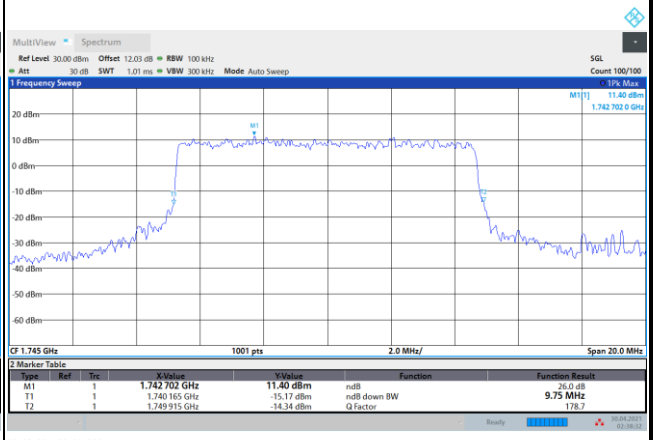
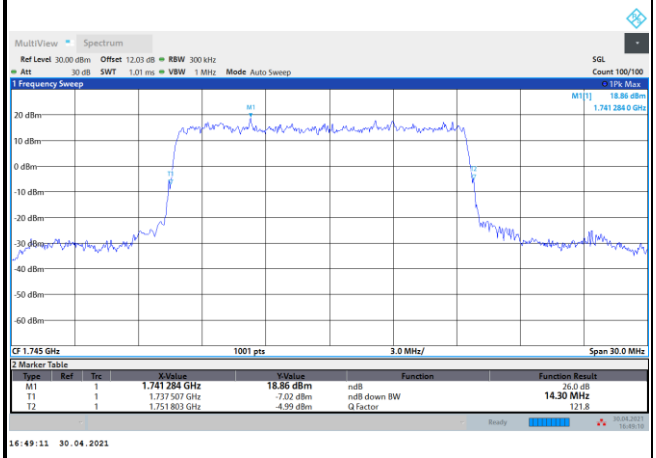


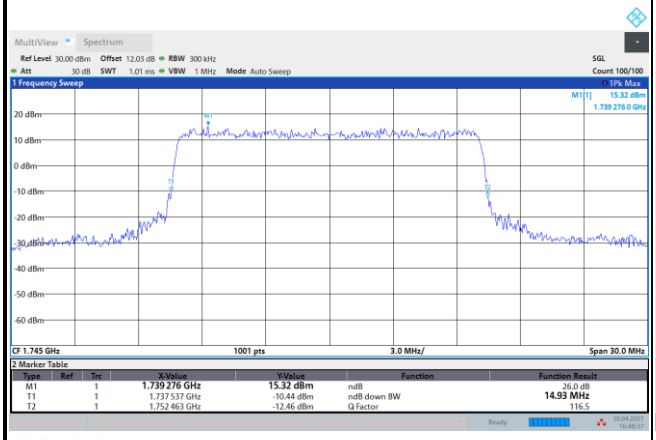
FR1 n66 / 15MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

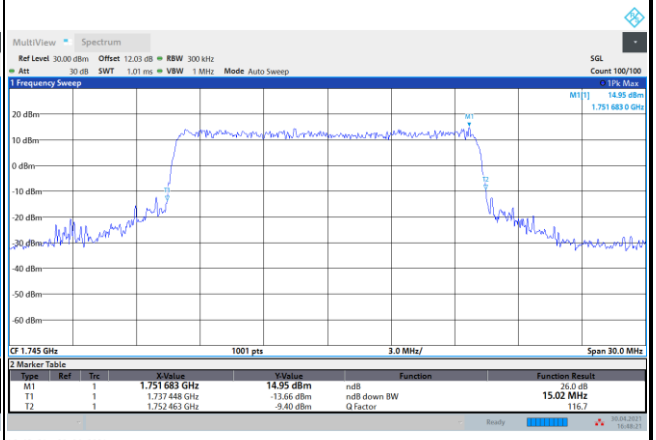


FR1 n66 / 15MHz / CP OFDM / Middle Channel / Full RB

QPSK



16QAM



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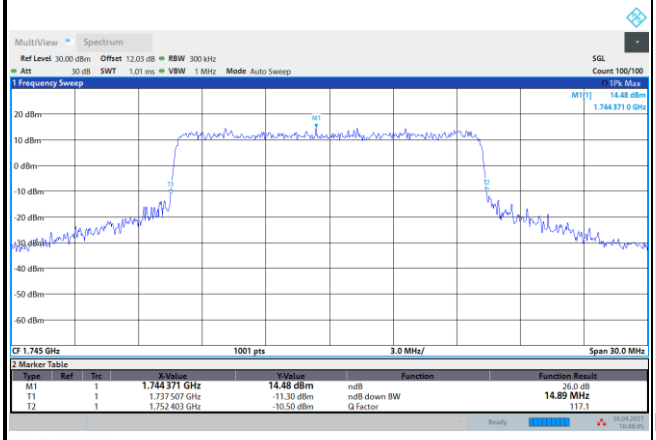
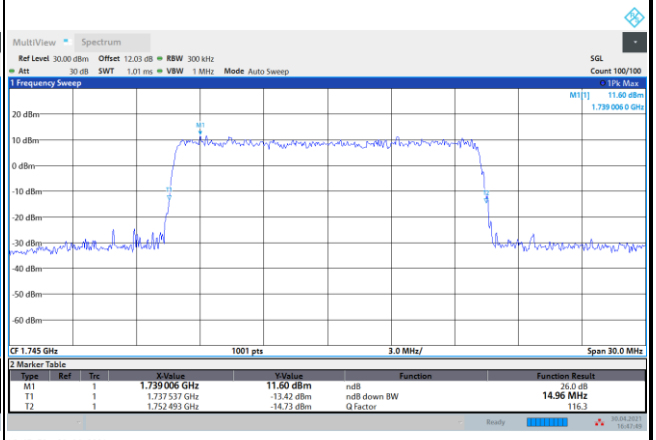
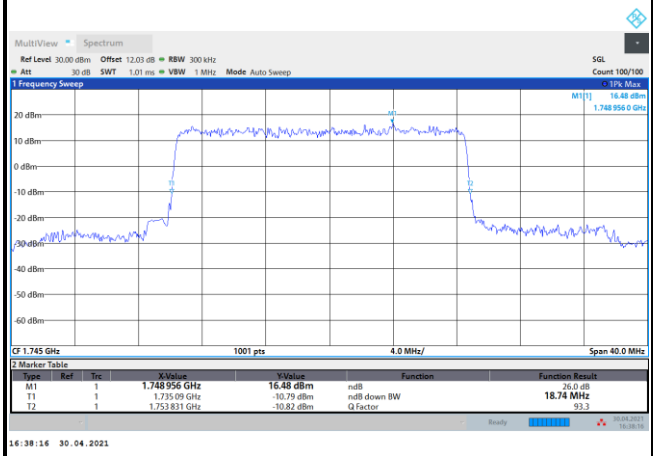


256QAM



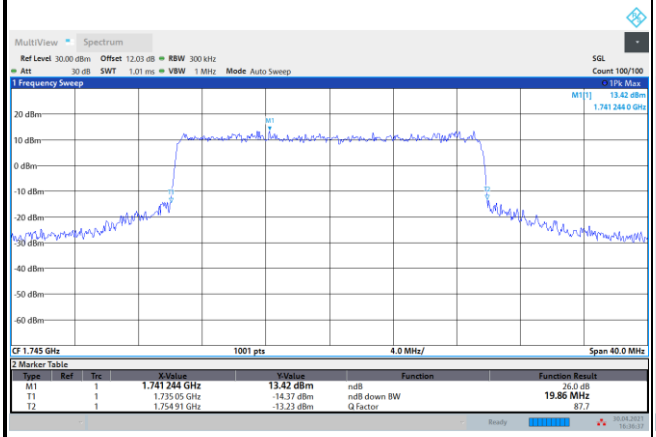
FR1 n66 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

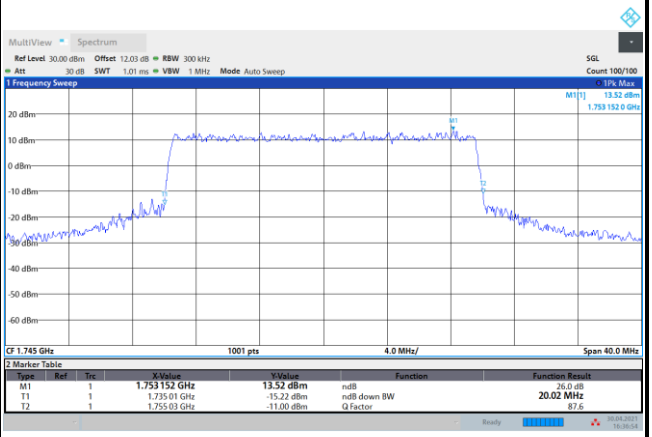


FR1 n66 / 20MHz / CP OFDM / Middle Channel / Full RB

QPSK



16QAM



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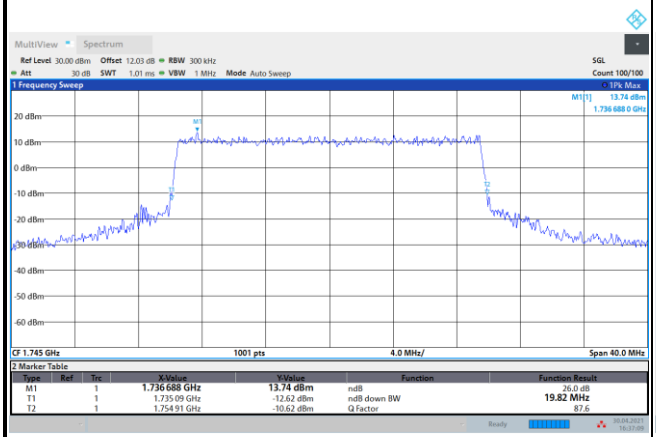

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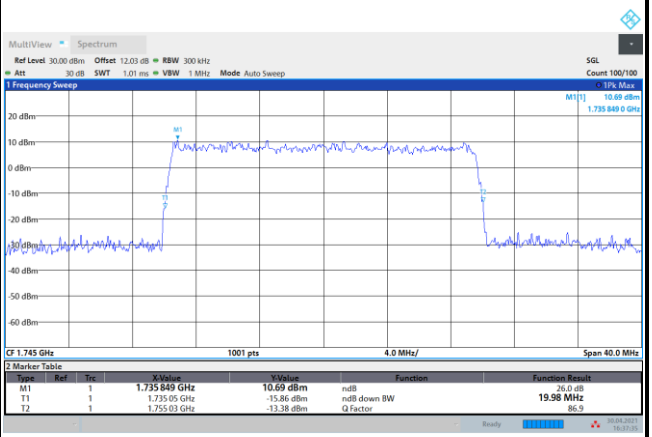


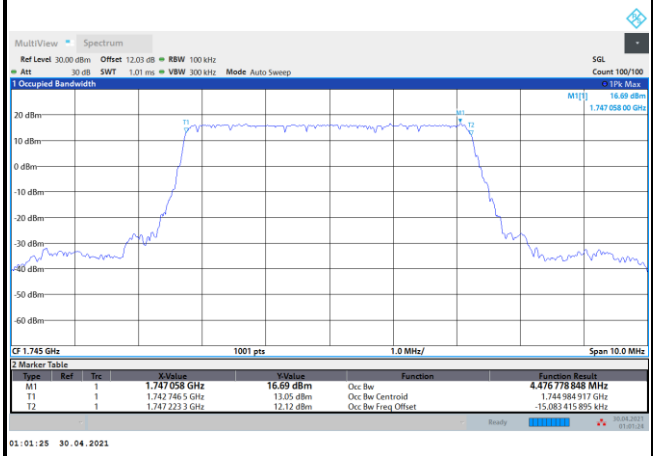
Occupied Bandwidth

Mode	FR1 n66 : 99%OBW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	PI/2 BPSK		PI/2 BPSK		PI/2 BPSK		PI/2 BPSK	
Middle CH	4.48		8.91		13.50		17.90	

Mode	FR1 n66 : 99%OBW (MHz) / CP OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	4.50	4.50	9.27	9.28	14.16	14.13	18.95	18.98
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	4.51	4.49	9.26	9.25	14.18	14.17	18.95	18.96

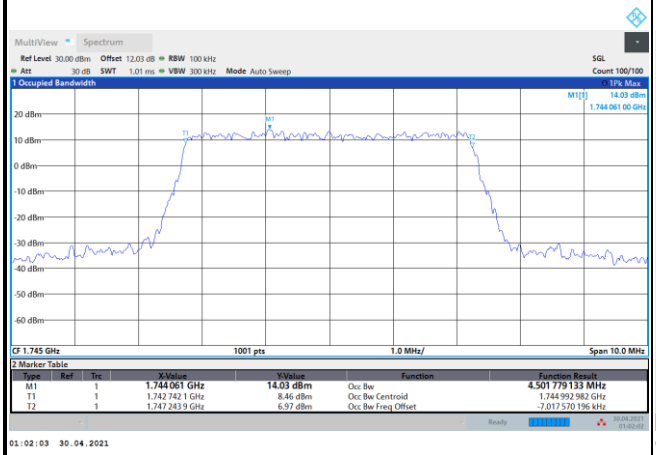
FR1 n66 / 5MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

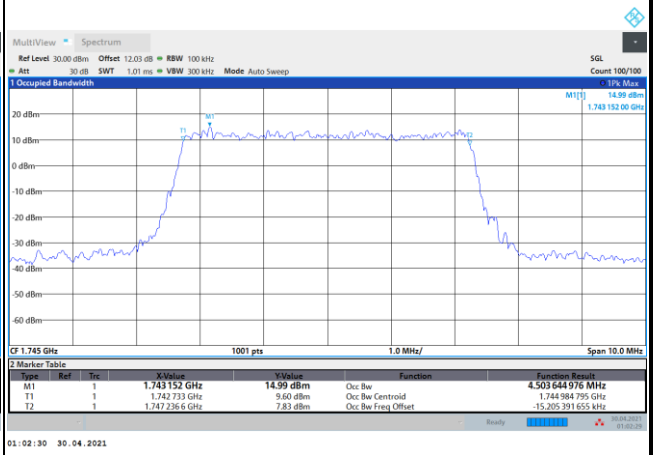


FR1 n66 / 5MHz / CP OFDM / Middle Channel / Full RB

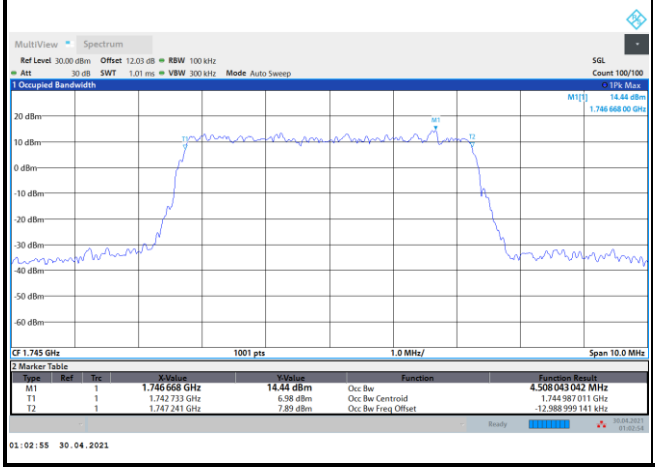
QPSK



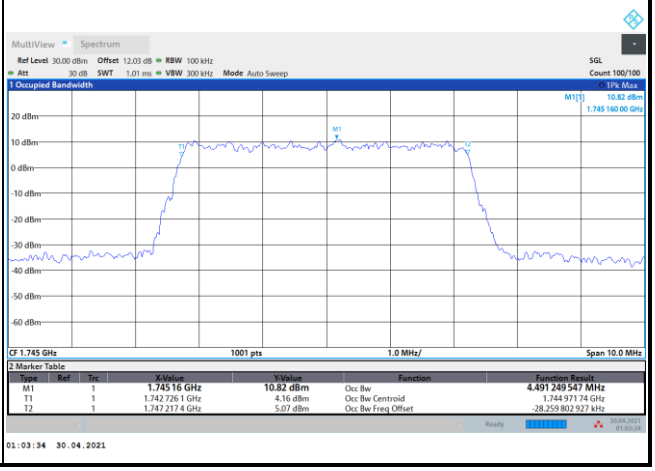
16QAM



64QAM

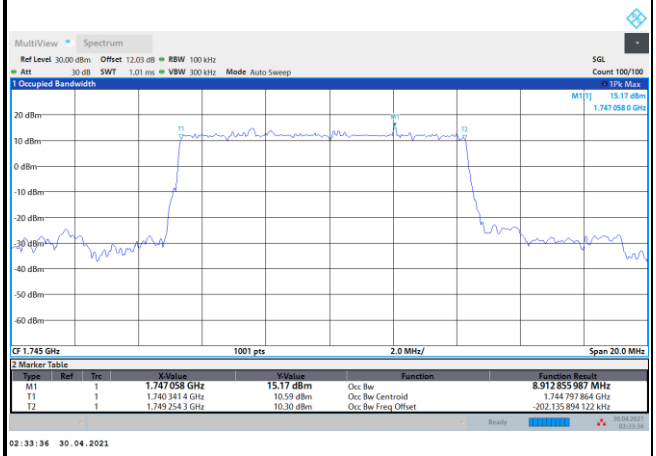


256QAM



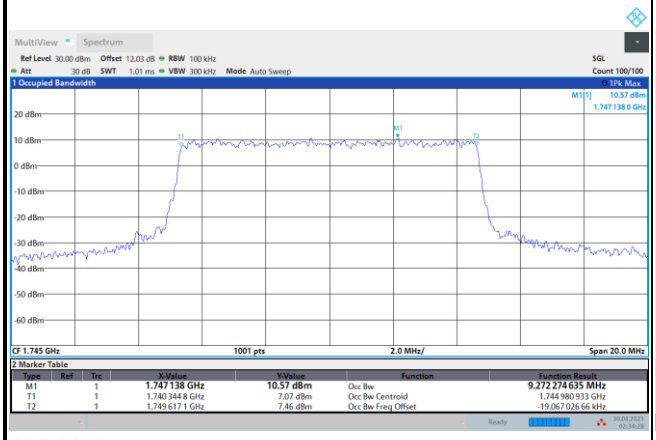
FR1 n66 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



FR1 n66 / 10MHz / CP OFDM / Middle Channel / Full RB

QPSK



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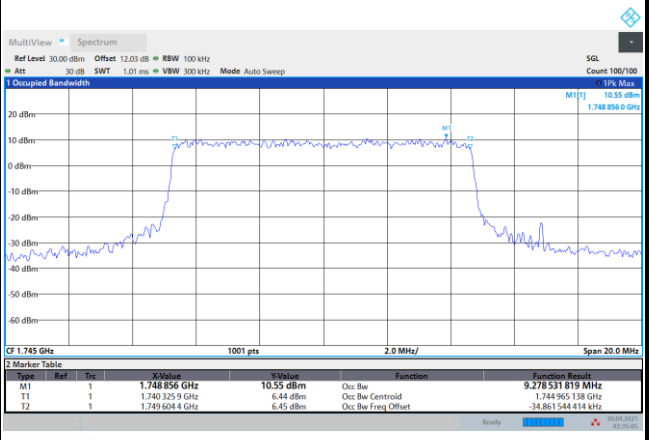

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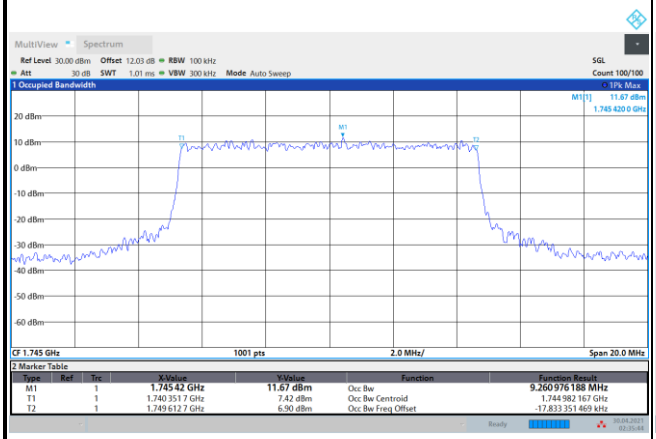

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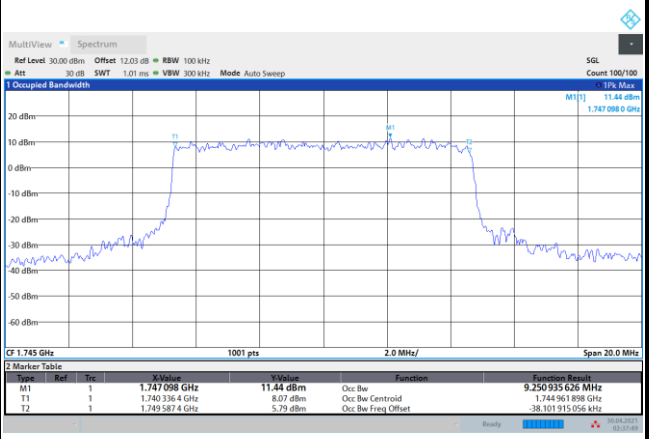
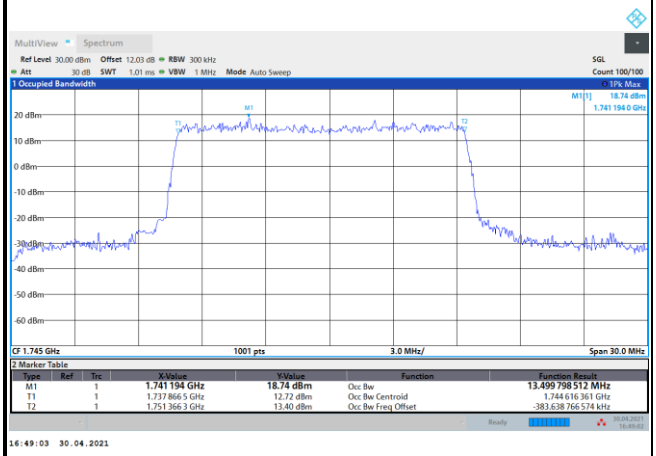


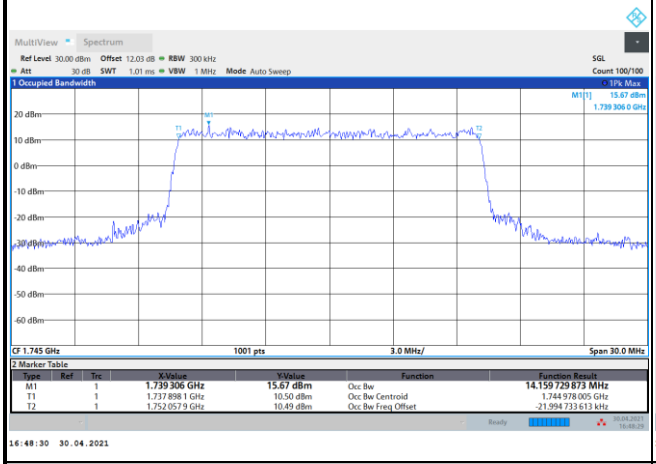
FR1 n66 / 15MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



FR1 n66 / 15MHz / CP OFDM / Middle Channel / Full RB

QPSK



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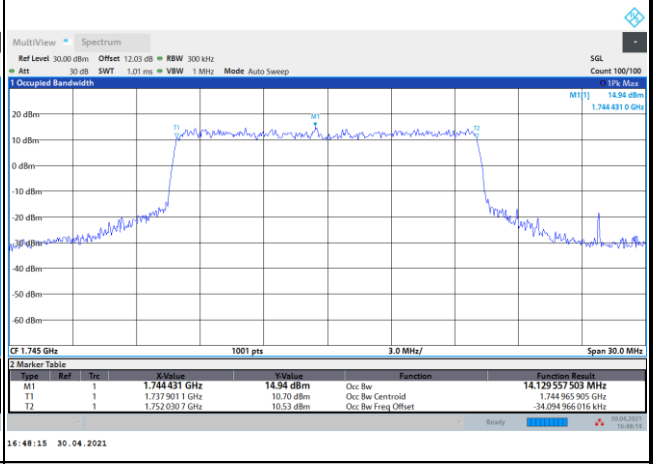

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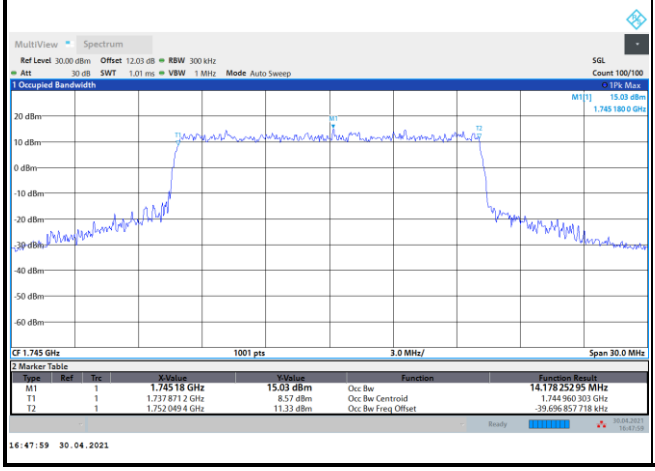
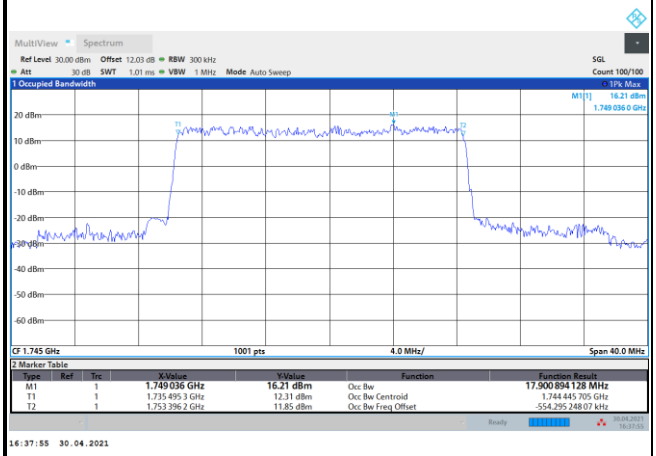


256QAM

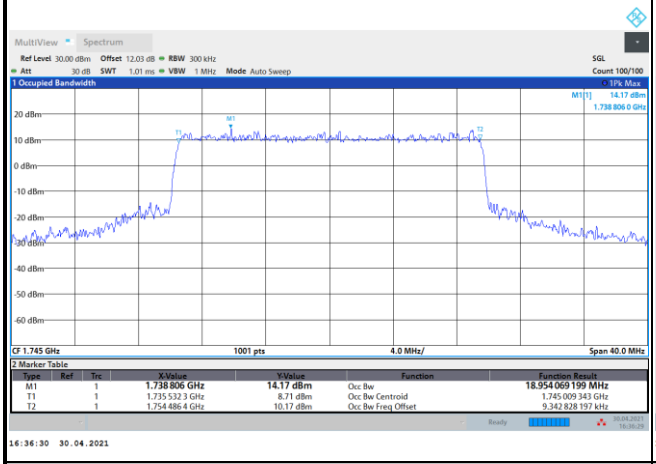
FR1 n66 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

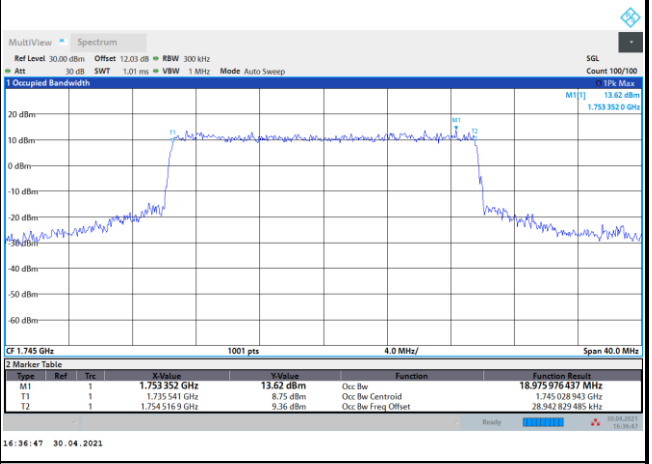


FR1 n66 / 20MHz / CP OFDM / Middle Channel / Full RB

QPSK



16QAM



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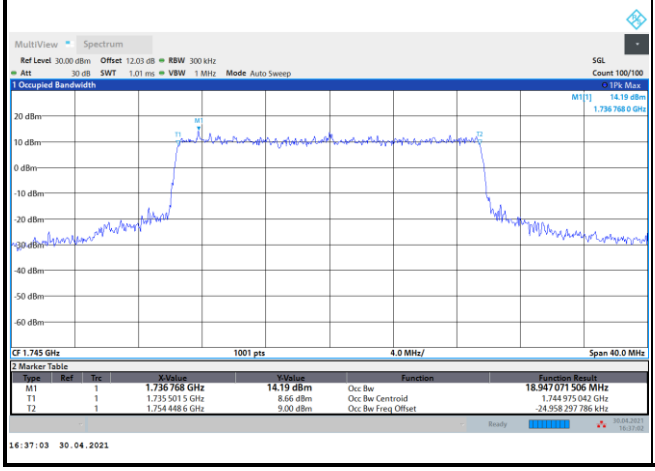
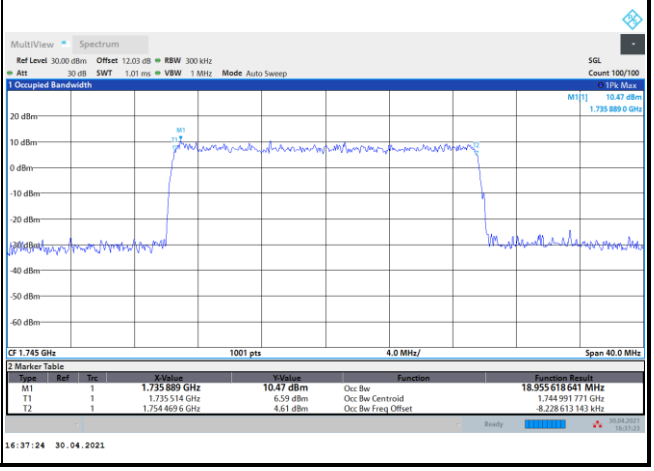
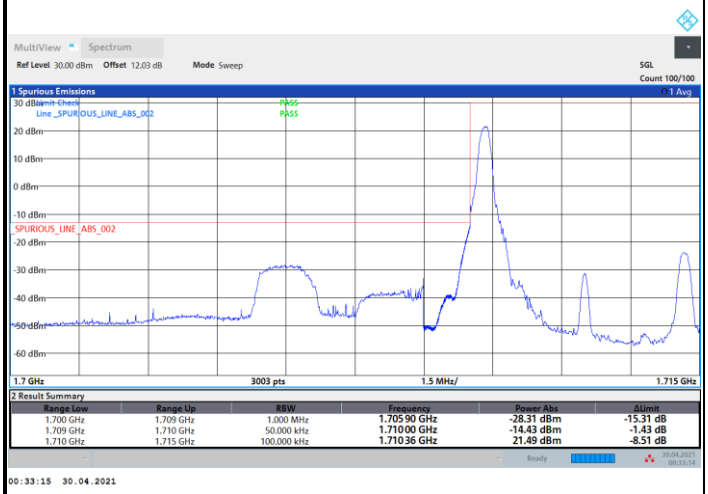
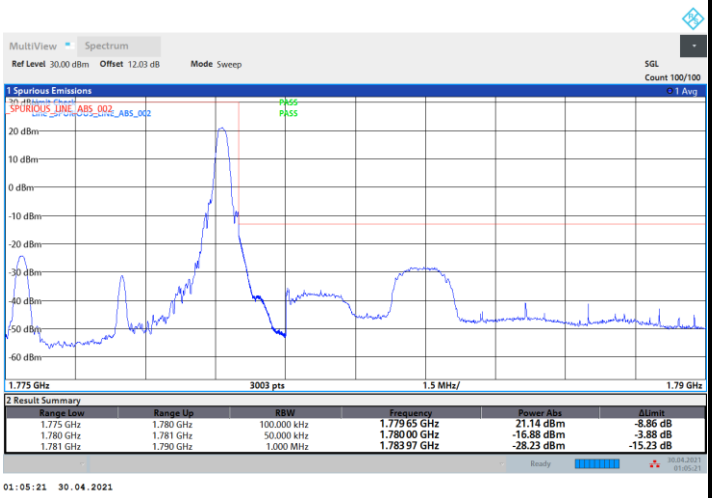
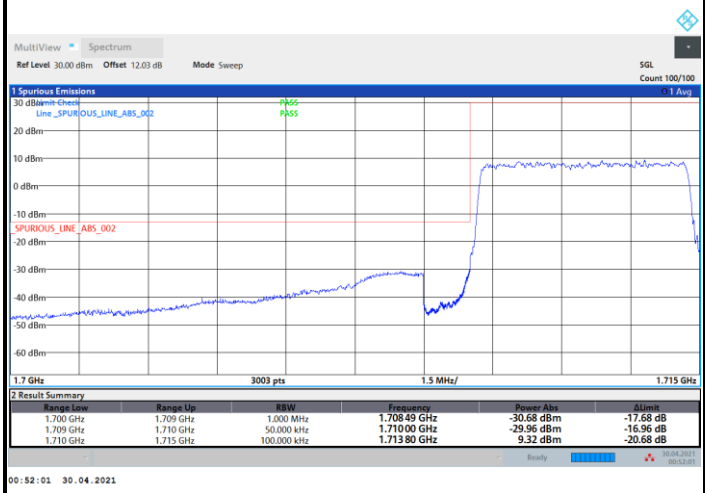
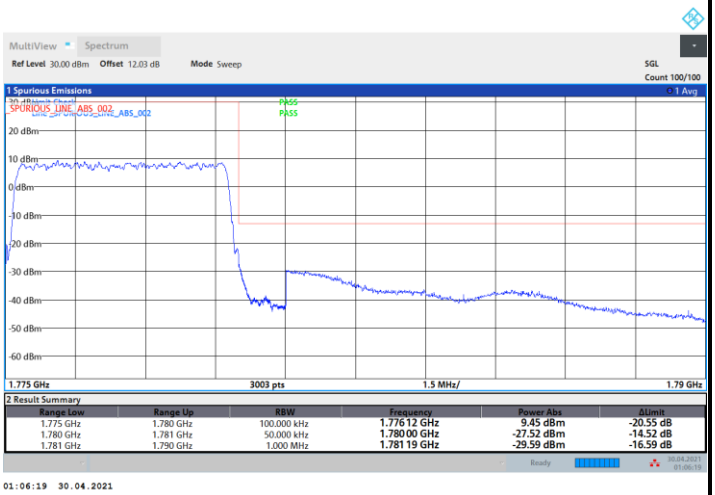


256QAM



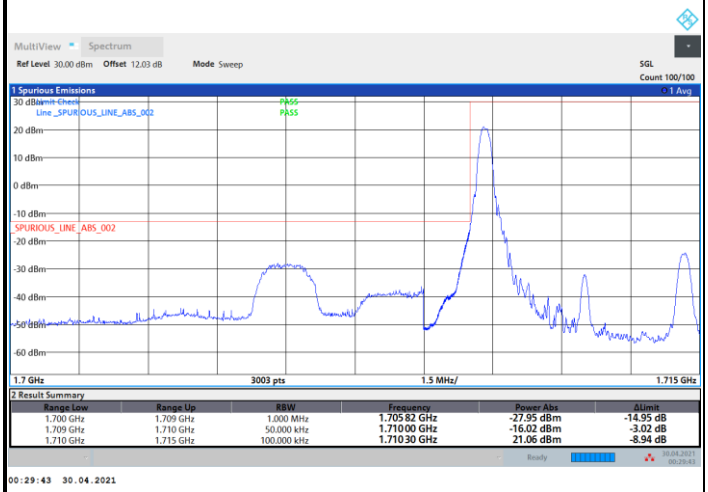
Conducted Band Edge

FR1 n66 / 5MHz / DFT-S OFDM / PI/2 BPSK	
Lowest Band Edge / 1RB0	**Highest Band Edge / 1RBmax**
	
Channel power -13 dBm > -16.21 dBm (Pass)	**N/A**

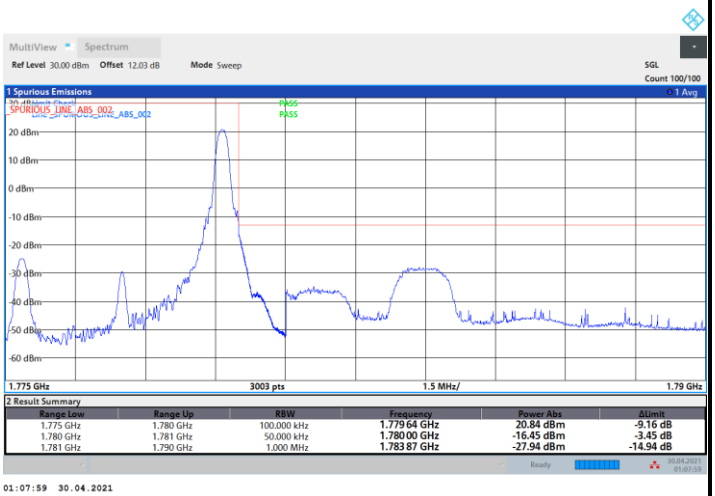
FR1 n66 / 5MHz / DFT-S OFDM / PI/2 BPSK	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
	

FR1 n66 / 5MHz / DFT-S OFDM / QPSK

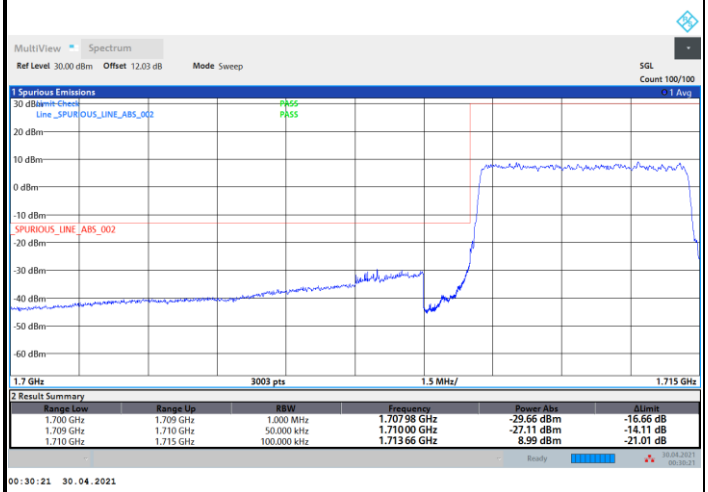
Lowest Band Edge / 1RB0



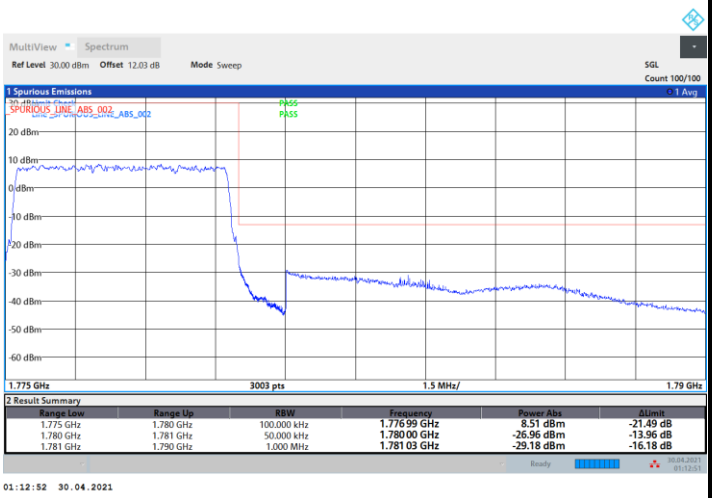
Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

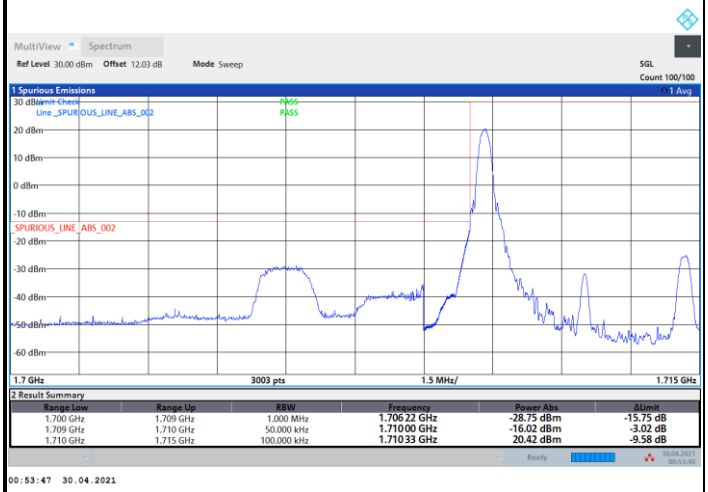


Highest Band Edge / Full RB

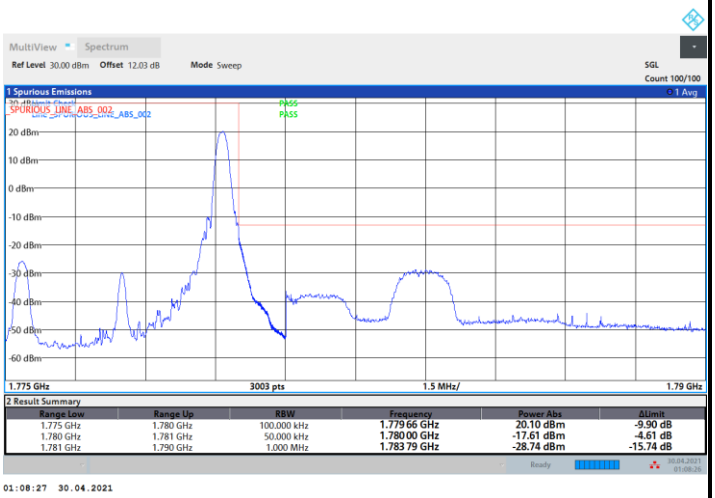


FR1 n66 / 5MHz / DFT-S OFDM / 16QAM

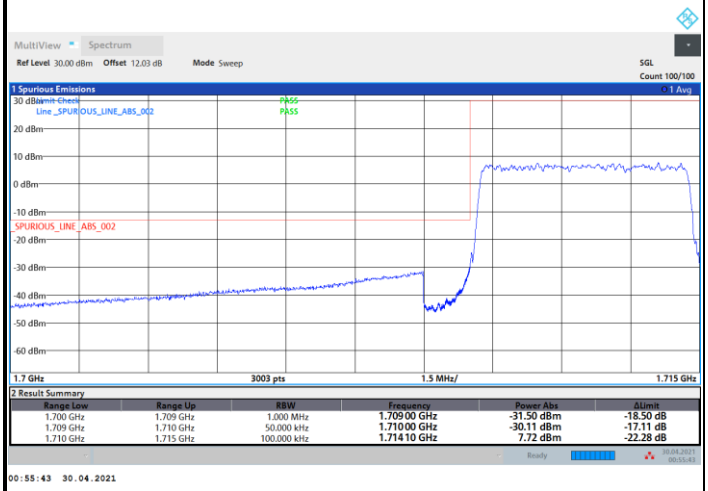
Lowest Band Edge / 1RB0



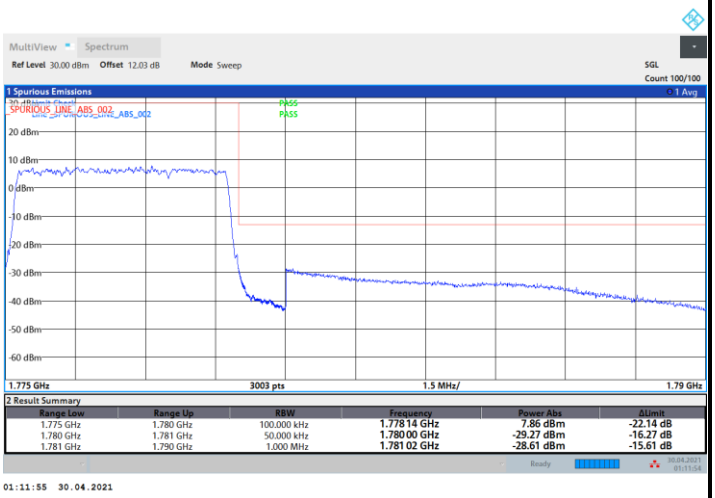
Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

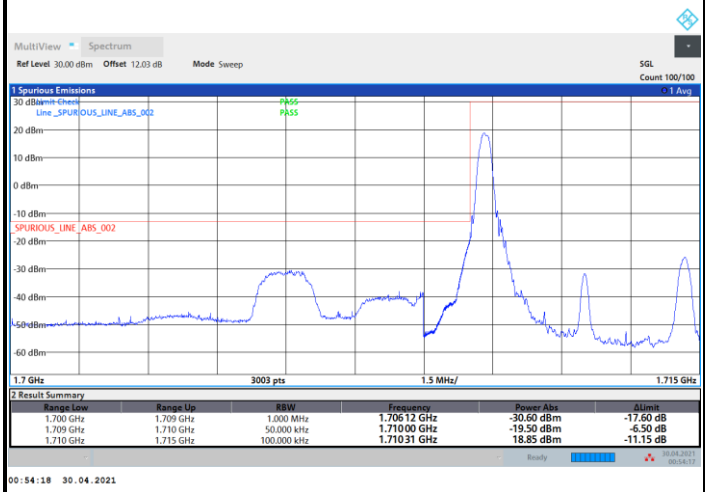


Highest Band Edge / Full RB

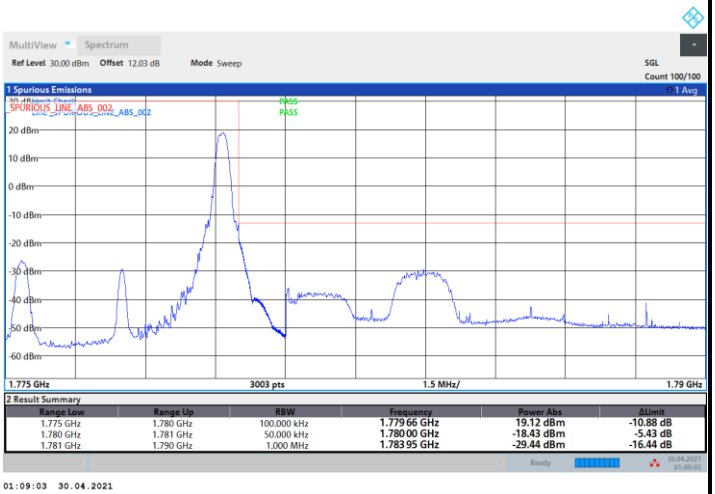


FR1 n66 / 5MHz / DFT-S OFDM / 64QAM

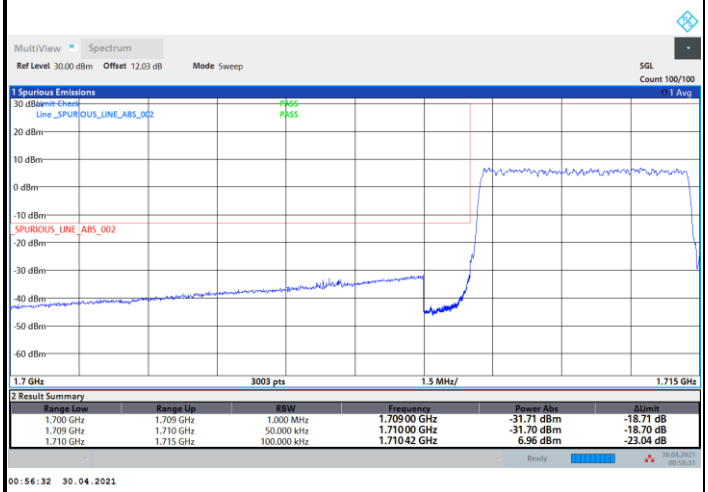
Lowest Band Edge / 1RB0



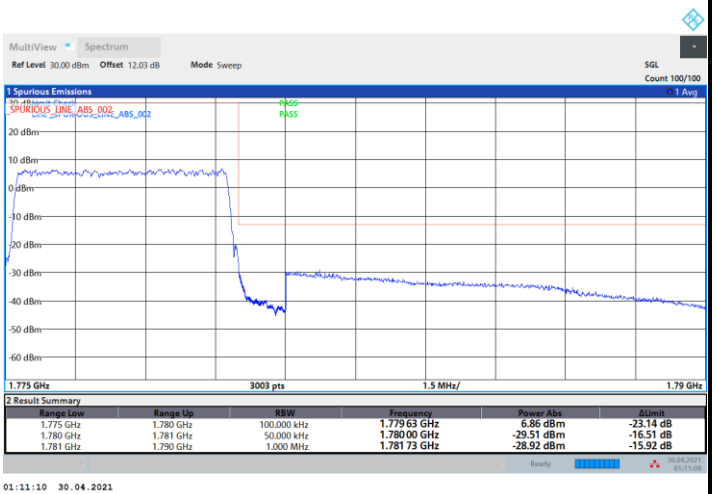
Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

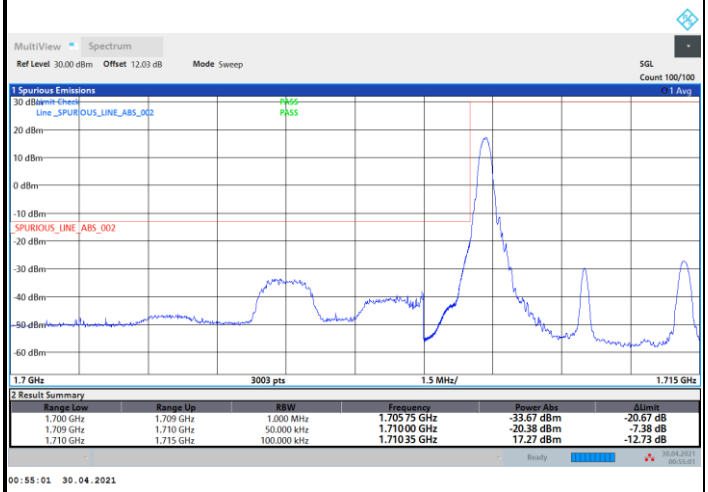


Highest Band Edge / Full RB

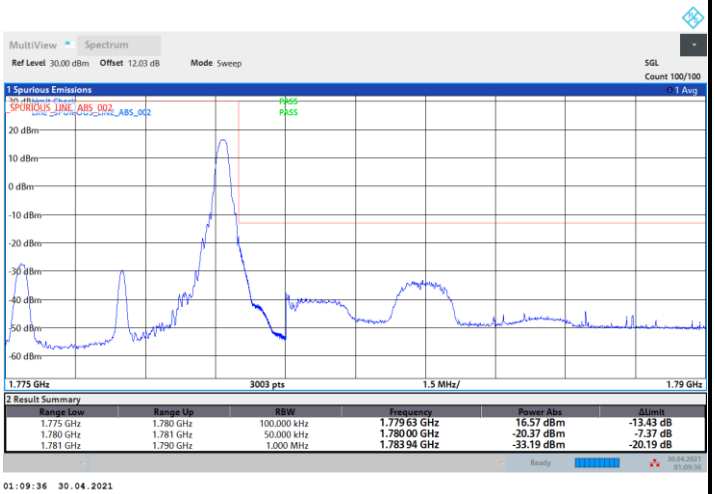


FR1 n66 / 5MHz / DFT-S OFDM / 256QAM

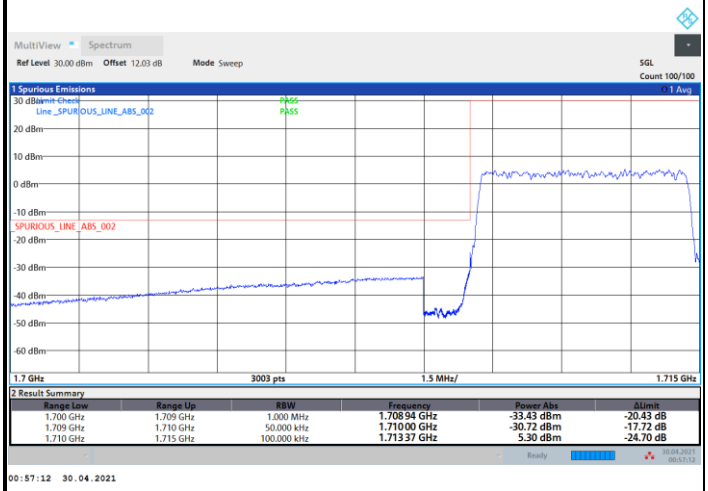
Lowest Band Edge / 1RB0



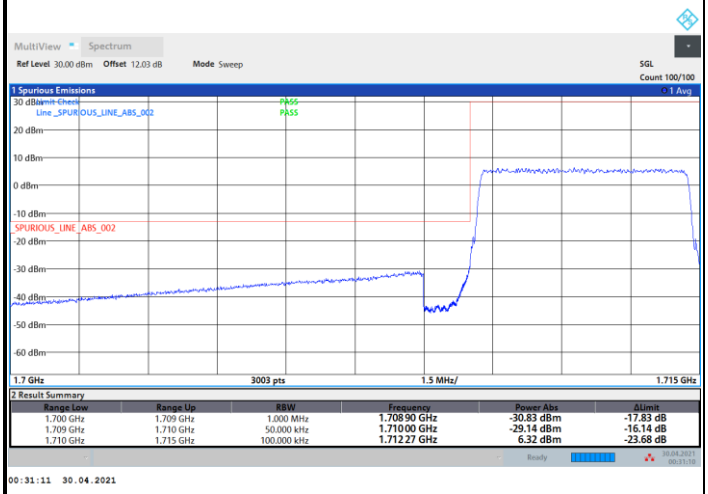
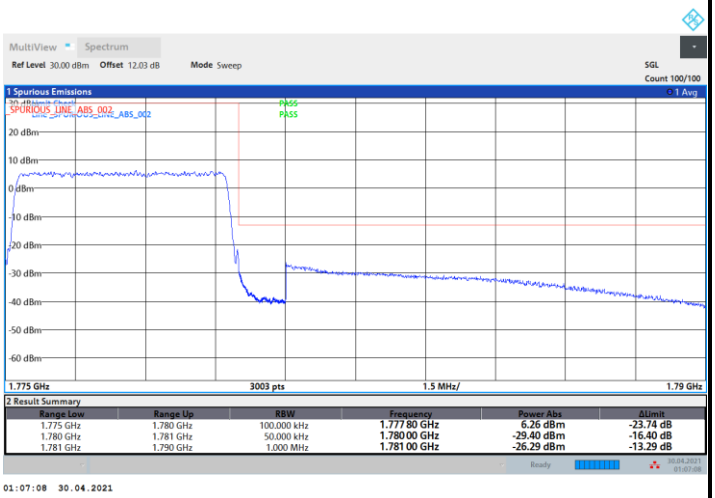
Highest Band Edge / 1RBmax

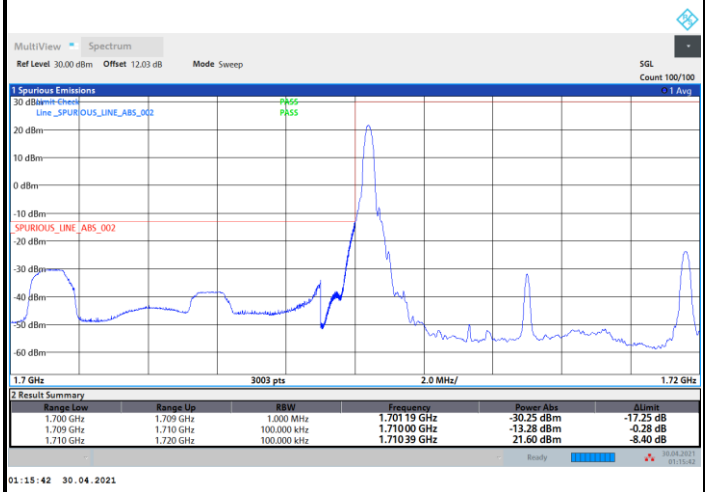
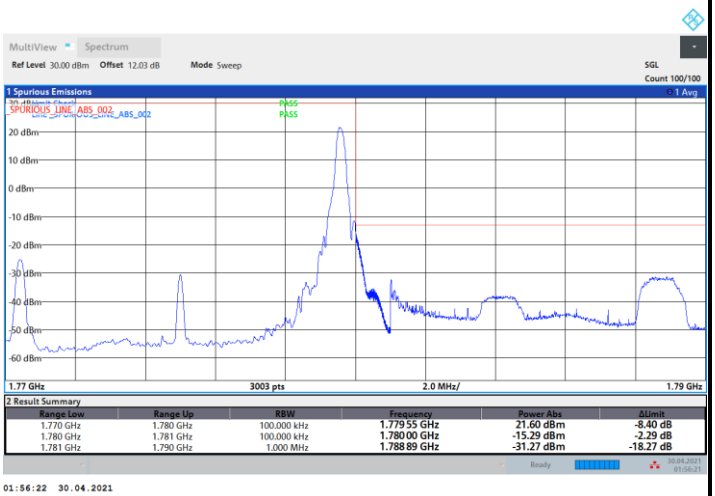
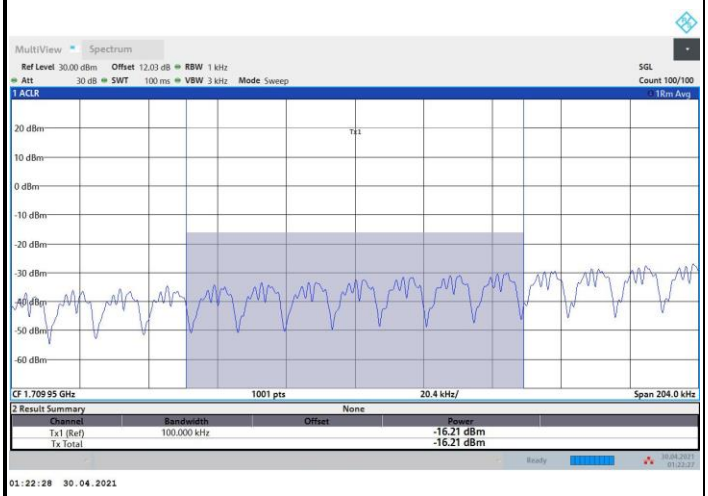
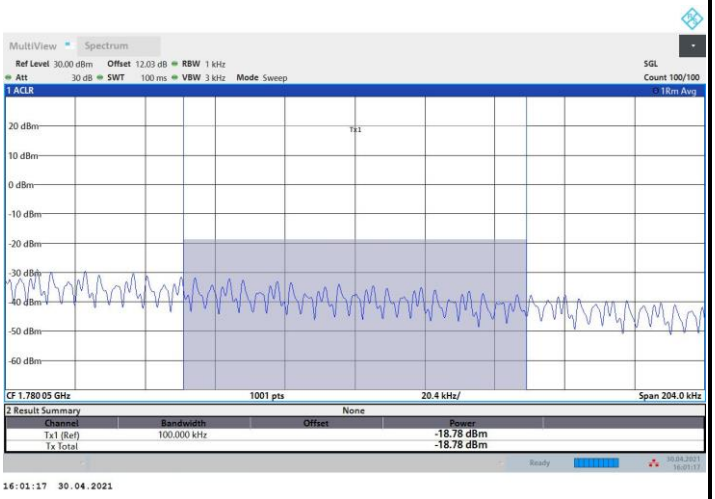
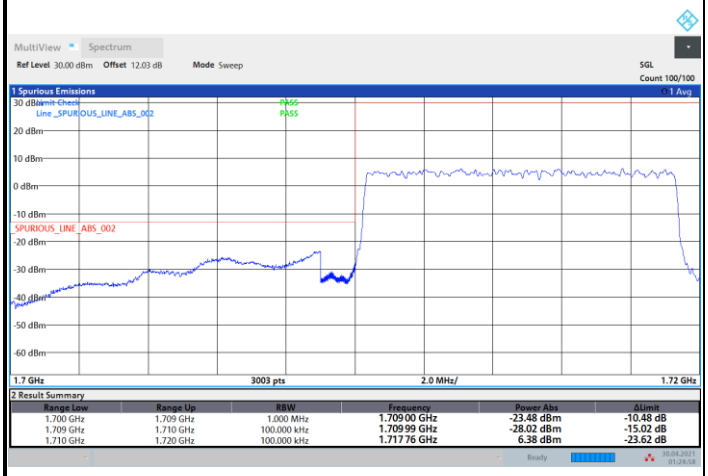
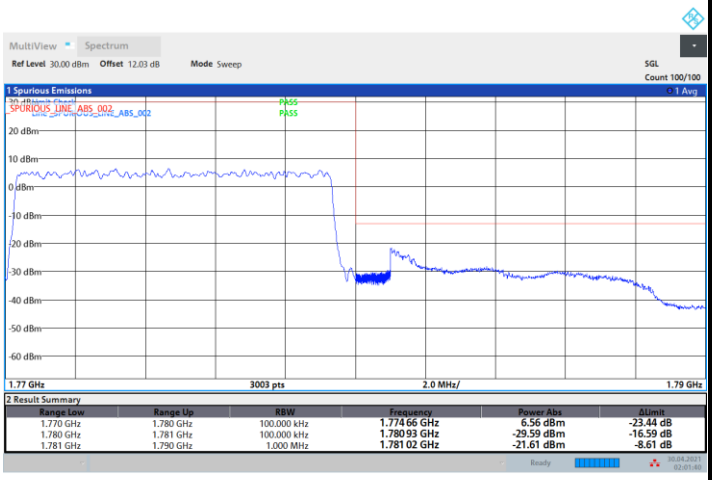


Lowest Band Edge / Full RB



Highest Band Edge / Full RB

FR1 n66 / 5MHz / CP OFDM / QPSK / Full RB	
Lowest Band Edge	**Highest Band Edge**
	

FR1 n66 / 10MHz / DFT-s-OFDM / PI/2 BPSK	
Lowest Band Edge / 1RB0	**Highest Band Edge / 1RBmax**
	
Channel power -13 dBm > -16.21 dBm (Pass)	**Channel power -13 dBm > -18.78 dBm (Pass)**
	

FR1 n66 / 10MHz / DFT-s-OFDM / PI/2 BPSK	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**