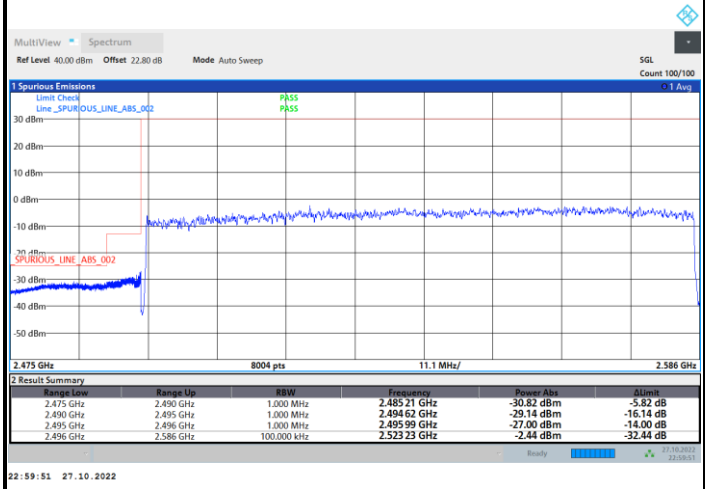
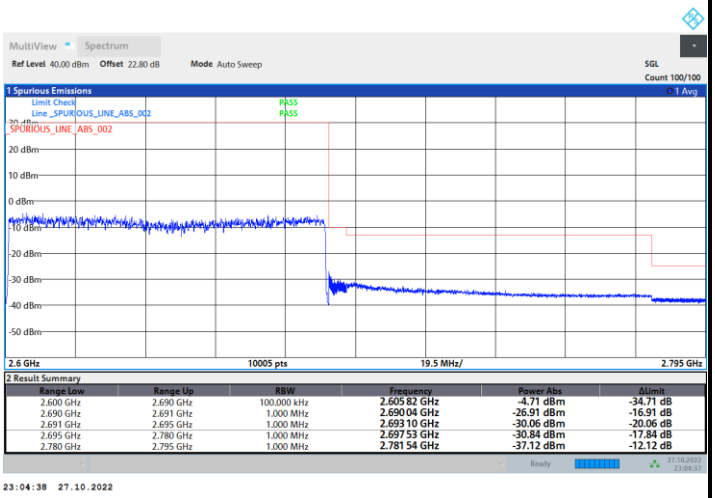
FR1 n41 / 90MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB

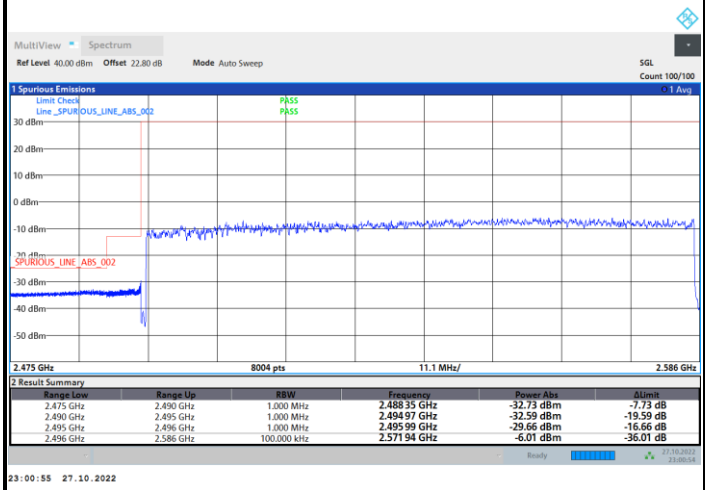


Highest Band Edge / Full RB

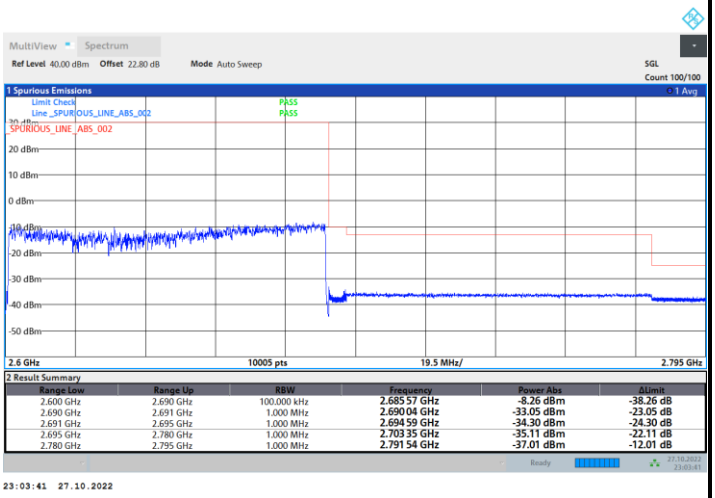


FR1 n41 / 90MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB

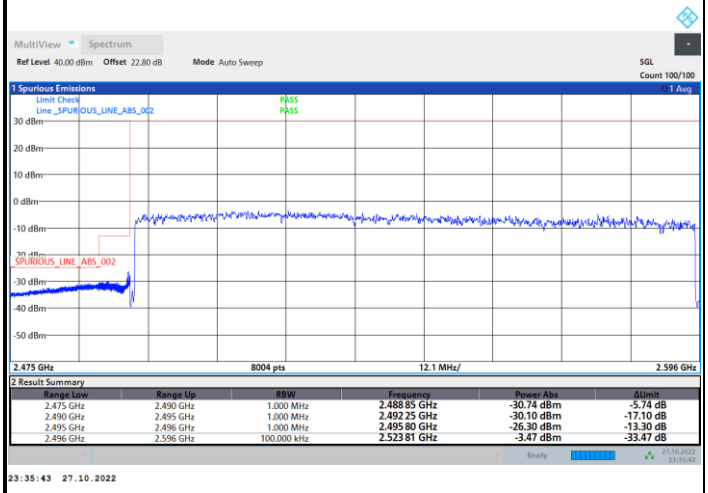


Highest Band Edge / Full RB

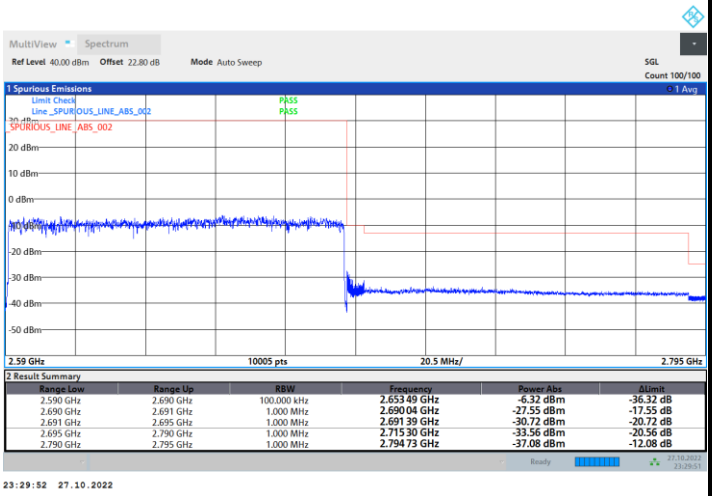


FR1 n41 / 100MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

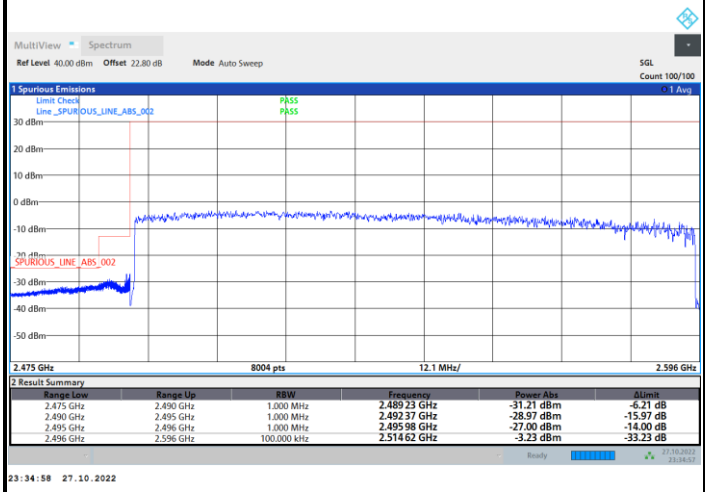


Highest Band Edge / Full RB

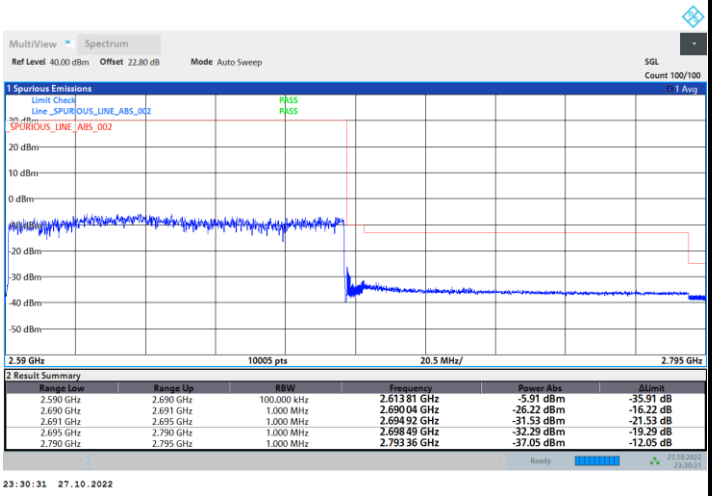


FR1 n41 / 100MHz / CP OFDM / 16QAM

Lowest Band Edge / Full RB

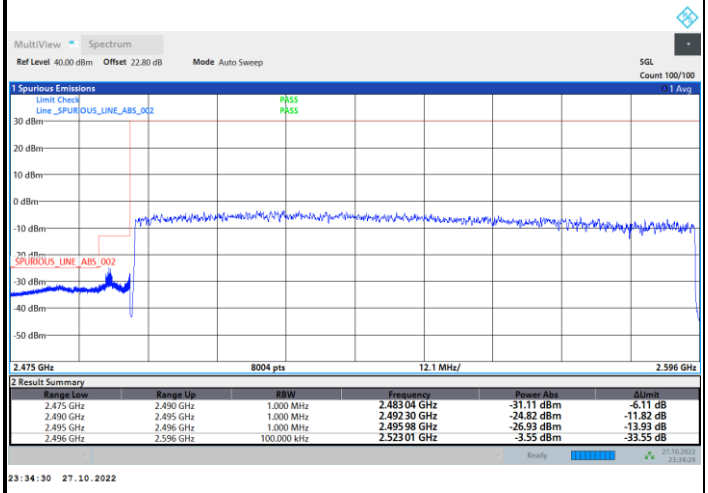


Highest Band Edge / Full RB

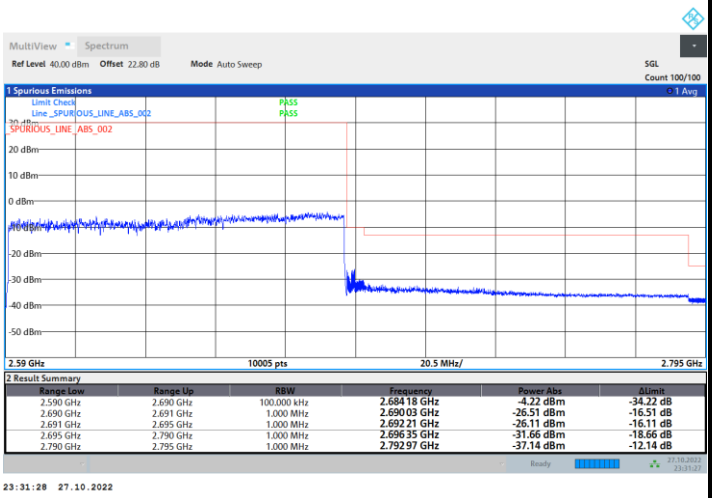


FR1 n41 / 100MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB

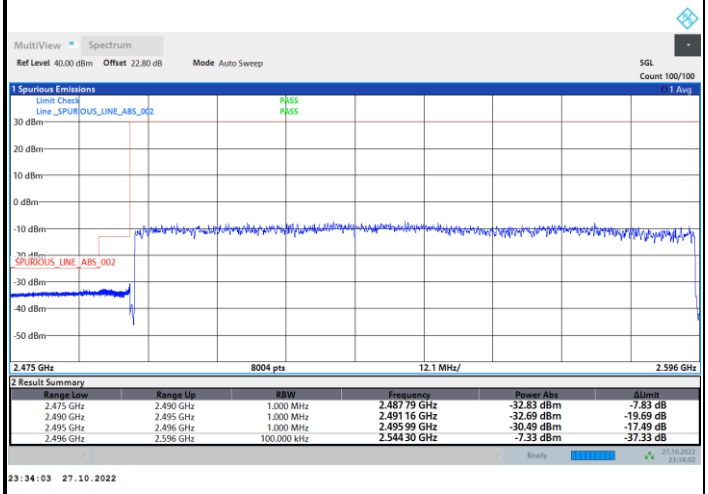


Highest Band Edge / Full RB

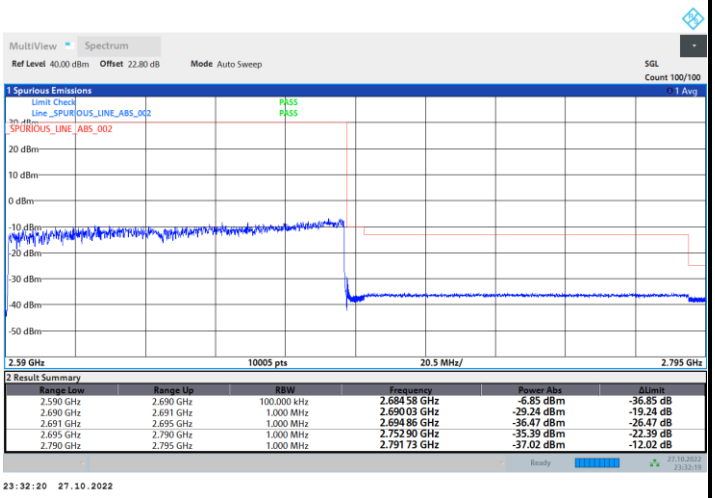


FR1 n41 / 100MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB



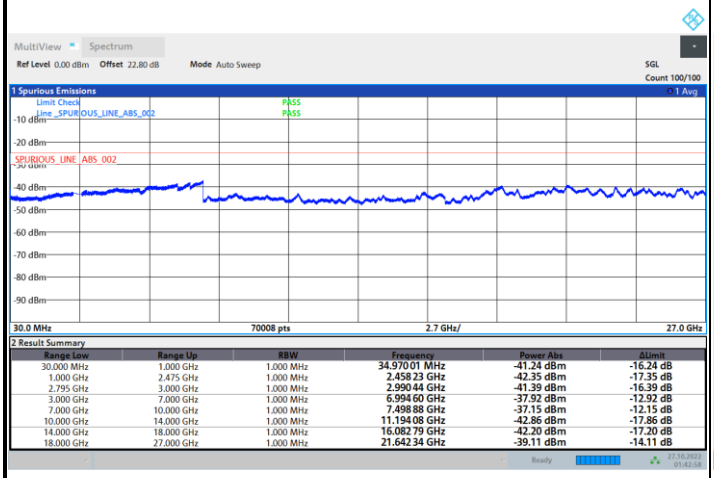
Highest Band Edge / Full RB



Conducted Spurious Emission

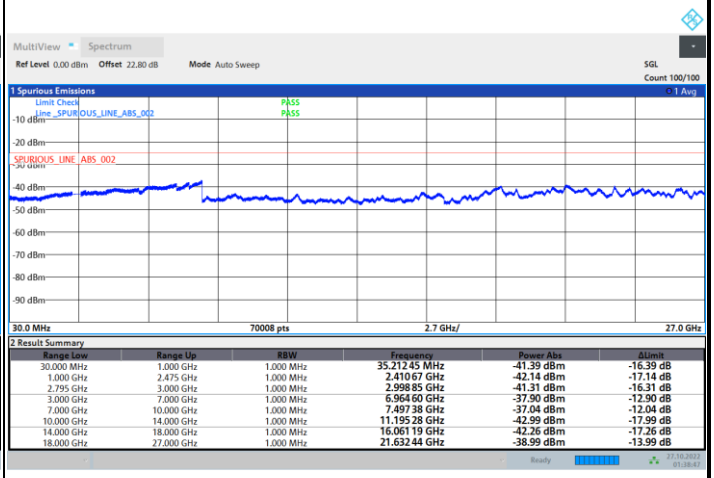
FR1 n41 / 20MHz / CP OFDM / QPSK / 1RB1

Lowest Channel



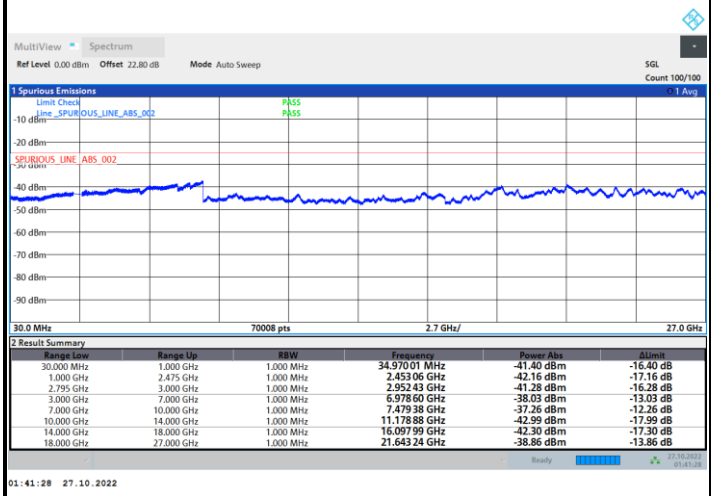
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	34.970 01 MHz	-41.24 dBm	-16.24 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.458 23 GHz	-42.35 dBm	-17.35 dB
2.795 GHz	3.000 GHz	1.000 MHz	2.990 44 GHz	-41.39 dBm	-16.39 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.994 60 GHz	-37.92 dBm	-12.92 dB
7.000 GHz	10.000 GHz	1.000 MHz	7.498 88 GHz	-37.15 dBm	-12.15 dB
10.000 GHz	14.000 GHz	1.000 MHz	11.194 08 GHz	-42.86 dBm	-17.86 dB
14.000 GHz	18.000 GHz	1.000 MHz	16.082 79 GHz	-42.20 dBm	-17.20 dB
18.000 GHz	27.000 GHz	1.000 MHz	21.642 34 GHz	-39.11 dBm	-14.11 dB

Middle Channel



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	35.212 45 MHz	-41.39 dBm	-16.39 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.410 67 GHz	-42.14 dBm	-17.14 dB
2.795 GHz	3.000 GHz	1.000 MHz	2.998 85 GHz	-41.31 dBm	-16.31 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.964 60 GHz	-37.90 dBm	-12.90 dB
7.000 GHz	10.000 GHz	1.000 MHz	7.497 38 GHz	-37.04 dBm	-12.04 dB
10.000 GHz	14.000 GHz	1.000 MHz	11.195 28 GHz	-42.99 dBm	-17.99 dB
14.000 GHz	18.000 GHz	1.000 MHz	16.061 19 GHz	-42.26 dBm	-17.26 dB
18.000 GHz	27.000 GHz	1.000 MHz	21.632 44 GHz	-38.99 dBm	-13.99 dB

Highest Channel



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	34.970 01 MHz	-41.40 dBm	-16.40 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.453 06 GHz	-42.16 dBm	-17.16 dB
2.795 GHz	3.000 GHz	1.000 MHz	2.952 43 GHz	-41.28 dBm	-16.28 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.978 60 GHz	-38.03 dBm	-13.03 dB
7.000 GHz	10.000 GHz	1.000 MHz	7.479 38 GHz	-37.26 dBm	-12.26 dB
10.000 GHz	14.000 GHz	1.000 MHz	11.178 88 GHz	-42.99 dBm	-17.99 dB
14.000 GHz	18.000 GHz	1.000 MHz	16.097 99 GHz	-42.30 dBm	-17.30 dB
18.000 GHz	27.000 GHz	1.000 MHz	21.643 24 GHz	-38.86 dBm	-13.86 dB

Frequency Stability

Test Conditions		FR1 n41 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0009	PASS
40	Normal Voltage	0.0013	
30	Normal Voltage	0.0003	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0040	
0	Normal Voltage	0.0028	
-10	Normal Voltage	0.0014	
-20	Normal Voltage	0.0000	
-30	Normal Voltage	0.0044	
20	Maximum Voltage	0.0009	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0033	

Note:

1. Normal Voltage = 3.3 V.；Battery End Point (BEP) = 3.135 V.；Maximum Voltage = 4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

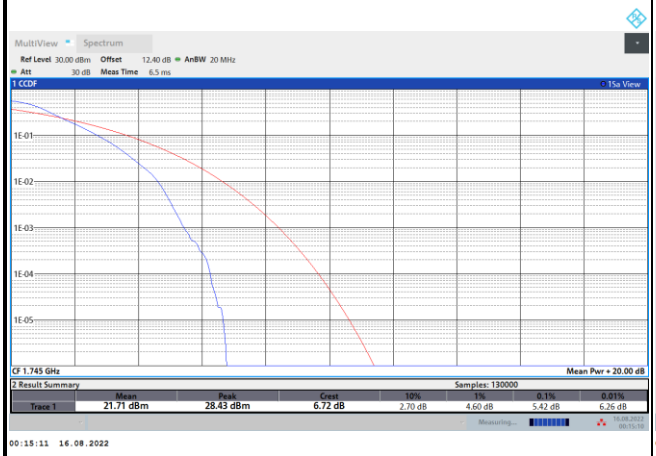
FR1 n66

Peak-to-Average Ratio

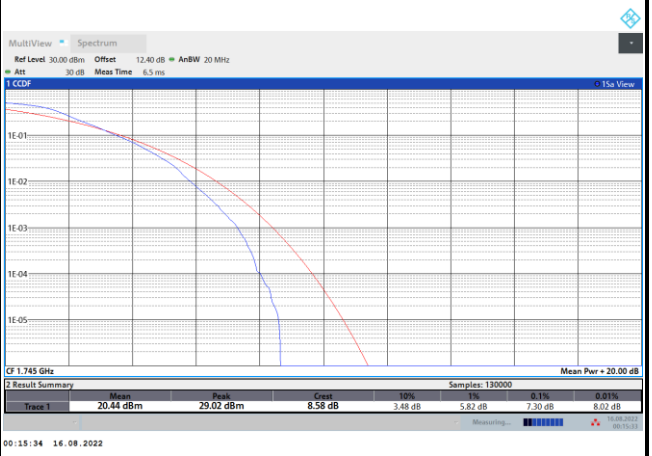
Mode	FR1 n66 / 20MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	5.42	7.30	8.14	7.56	PASS
Mode	FR1 n66 / 20MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Middle CH	7.74				PASS

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

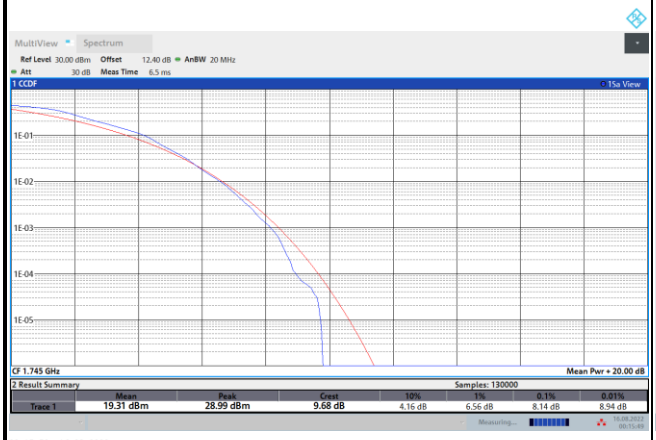
PI/2 BPSK



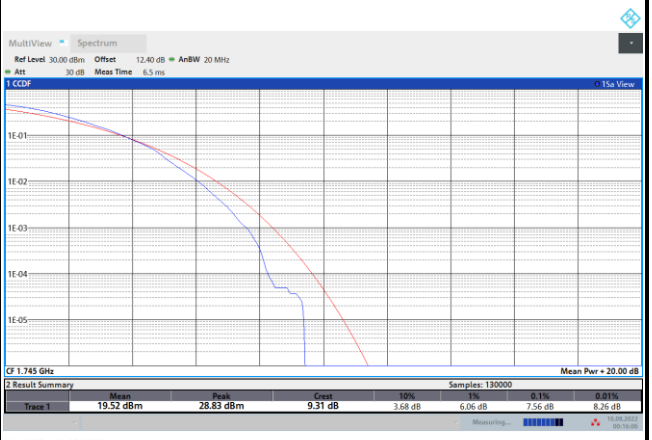
QPSK



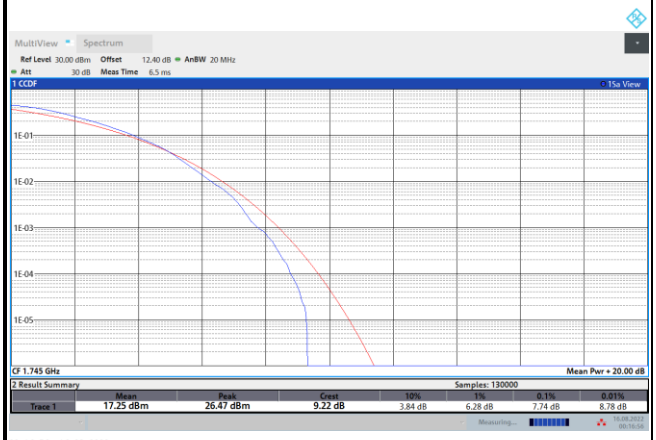
16QAM



64QAM



256QAM



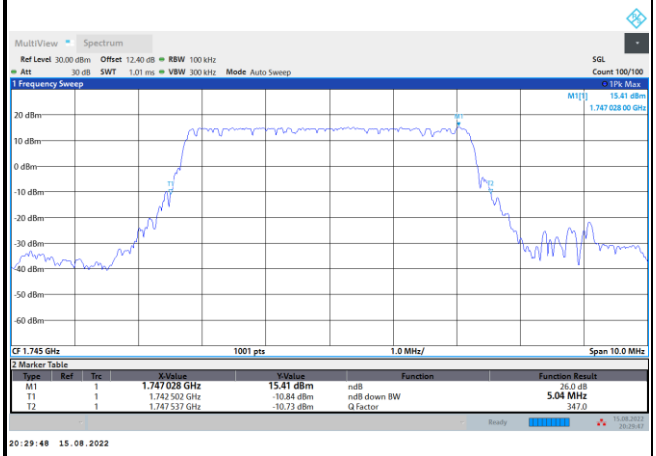
26dB Bandwidth

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	5.04		9.59		14.33		18.78	
BW	25MHz		30MHz		40MHz			
Mod.	PI/2 BPSK		PI/2 BPSK		PI/2 BPSK			
Middle CH	-		29.55		-			

Mode	FR1 n66 : 26dB BW(MHz) / CP OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	4.93	4.95	9.99	9.85	15.02	14.96	19.82	19.98
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	4.92	5.03	9.71	10.05	15.08	15.05	19.90	19.94
BW	25MHz		30MHz		40MHz			
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM		
Middle CH	-	-	29.73	29.73	-	-		
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM		
Middle CH	-	-	29.61	29.67	-	-		

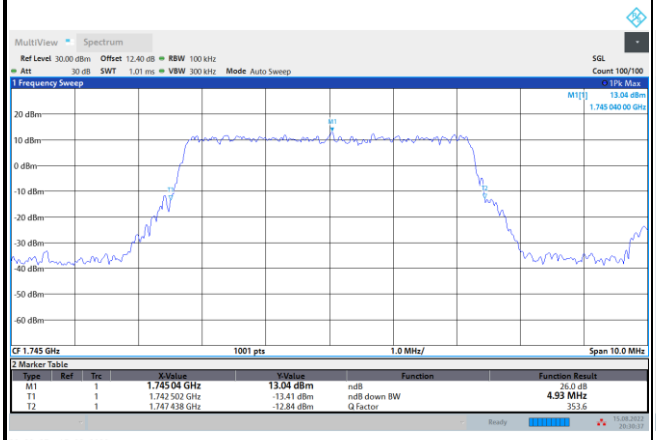
FR1 n66 / 5MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

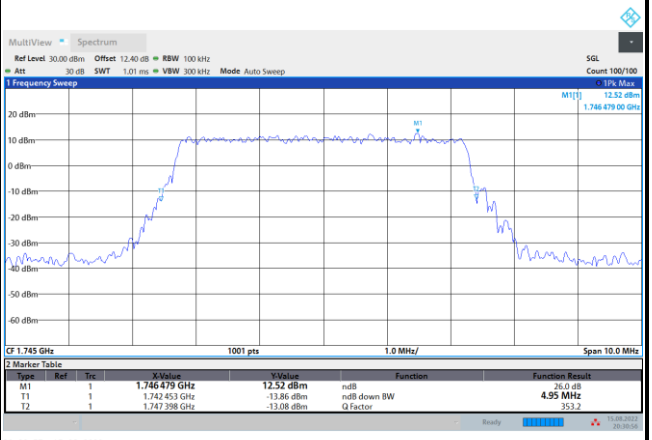


FR1 n66 / 5MHz / CP OFDM / Middle Channel / Full RB

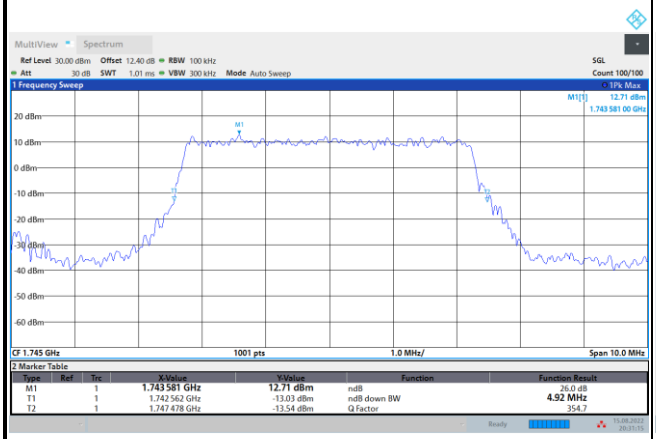
QPSK



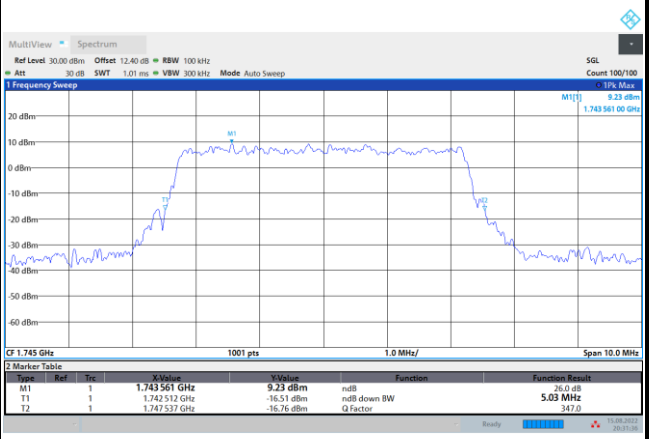
16QAM



64QAM

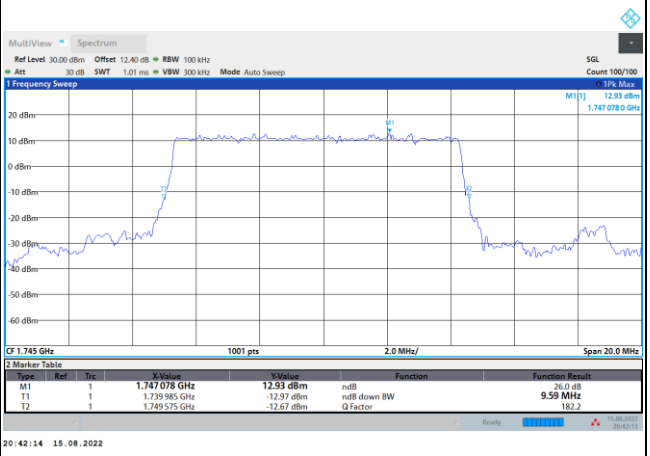


256QAM



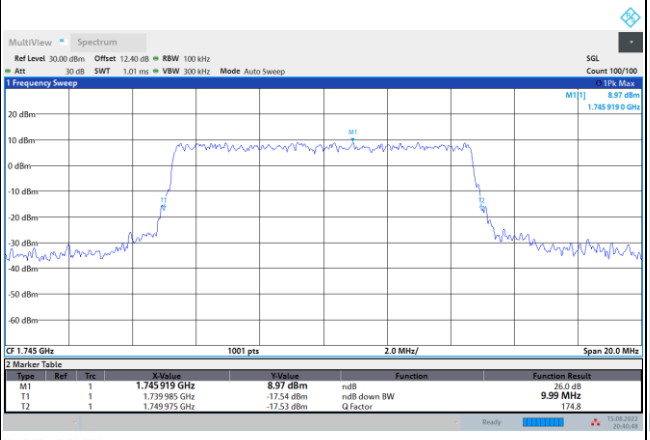
FR1 n66 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

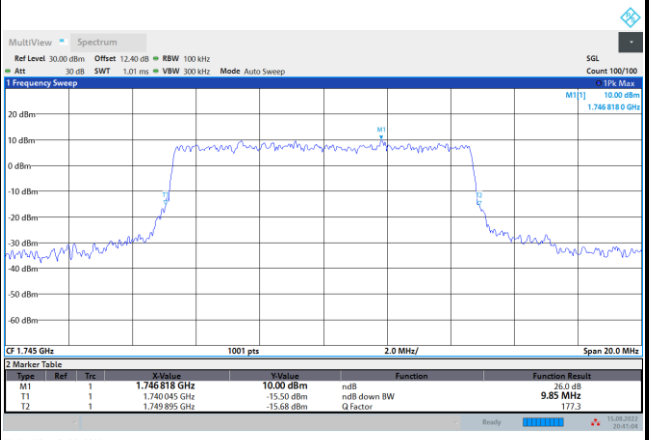


FR1 n66 / 10MHz / CP OFDM / Middle Channel / Full RB

QPSK



16QAM



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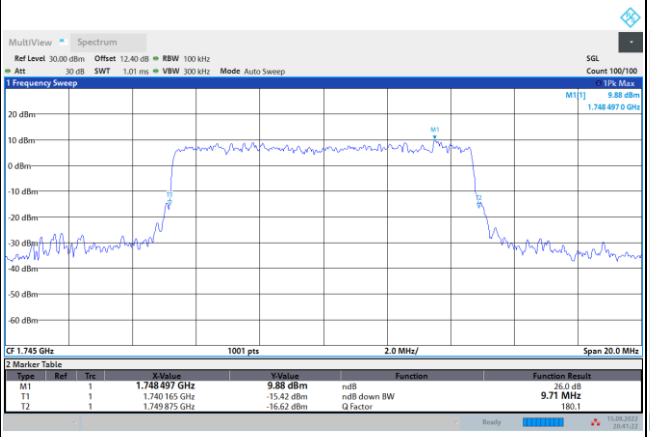
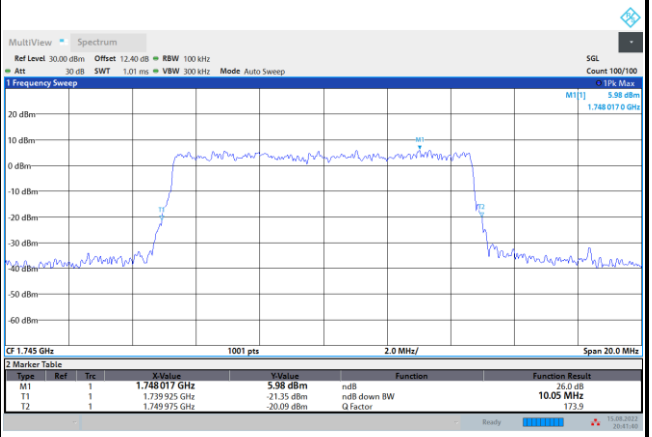
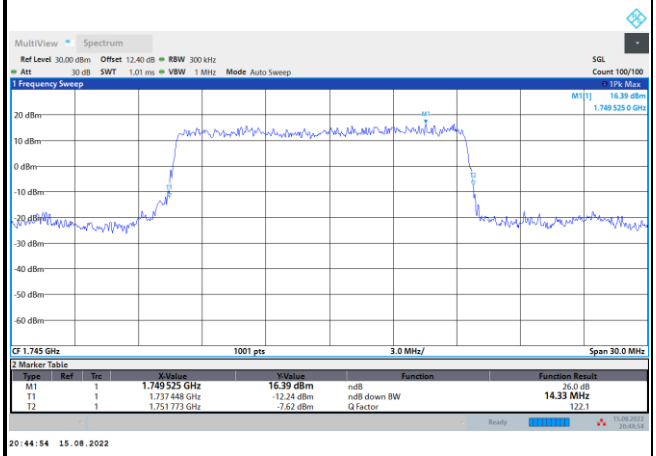


256QAM



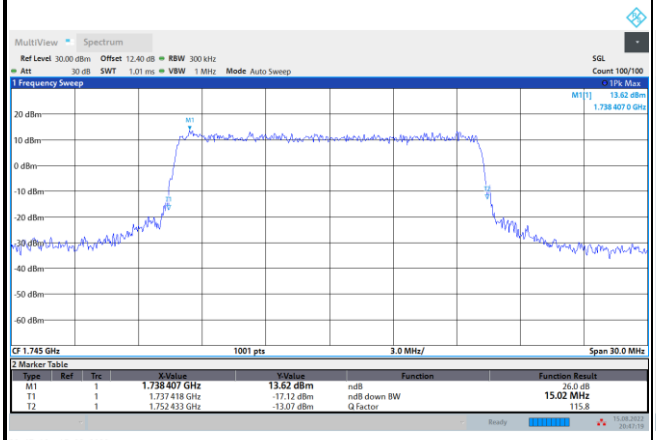
FR1 n66 / 15MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

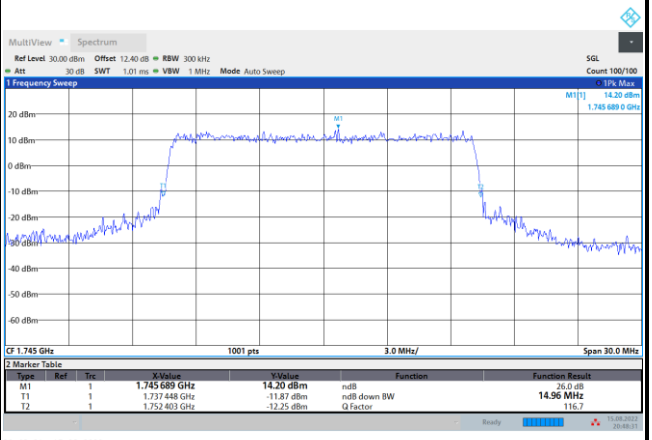


FR1 n66 / 15MHz / CP OFDM / Middle Channel / Full RB

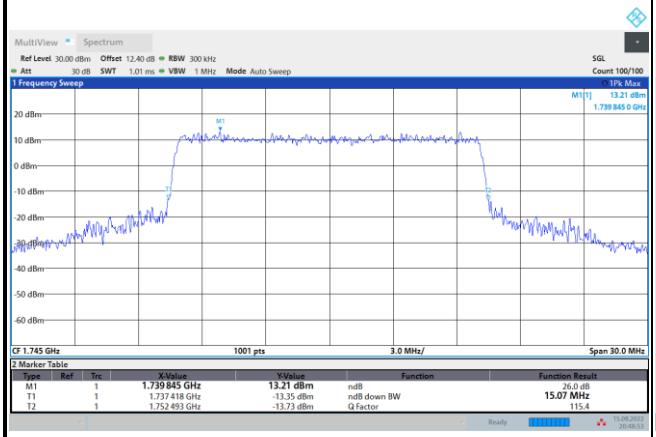
QPSK



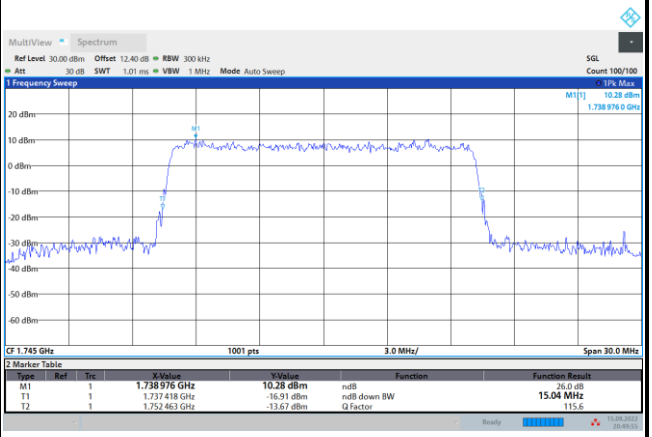
16QAM



64QAM

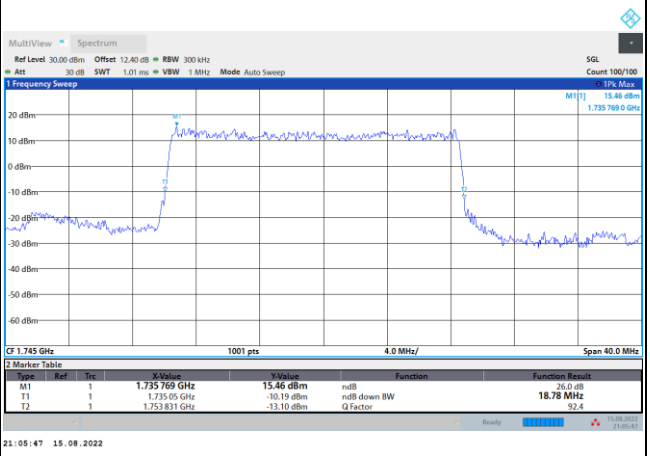


256QAM



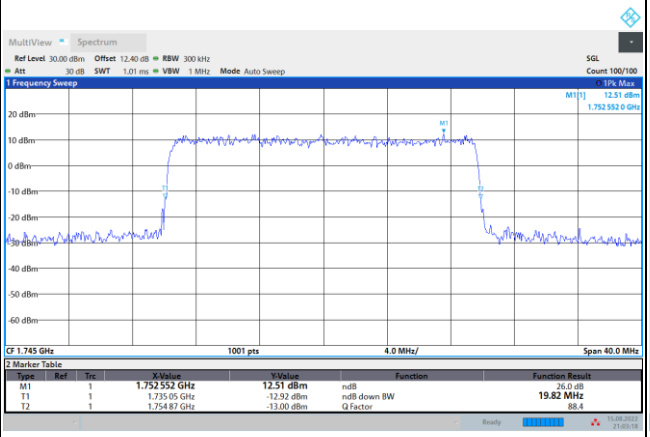
FR1 n66 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

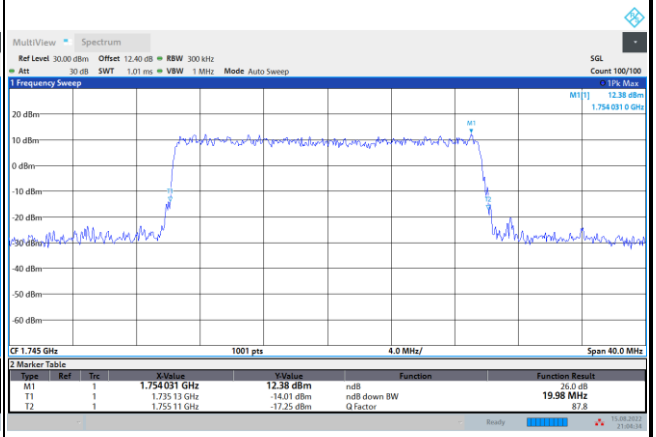


FR1 n66 / 20MHz / CP OFDM / Middle Channel / Full RB

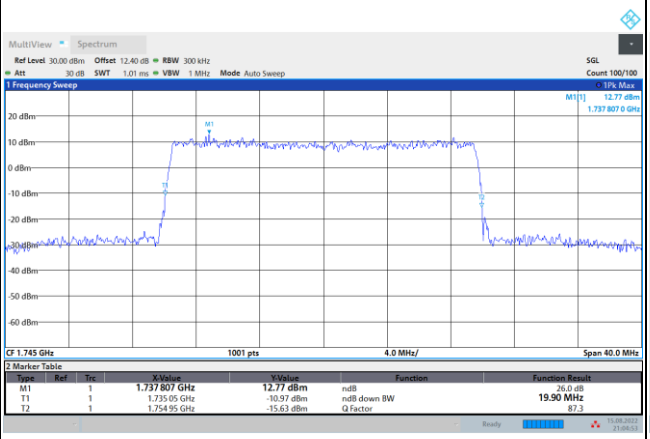
QPSK



16QAM



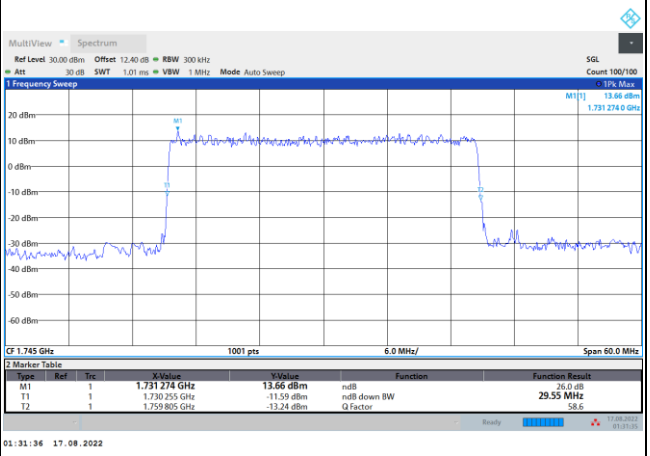
64QAM



256QAM

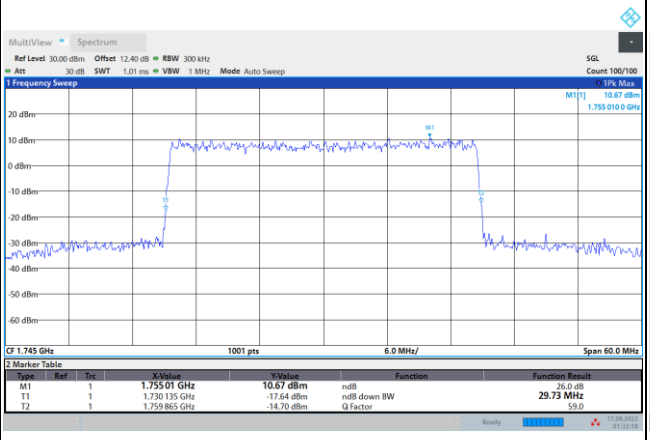
FR1 n66 / 30MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

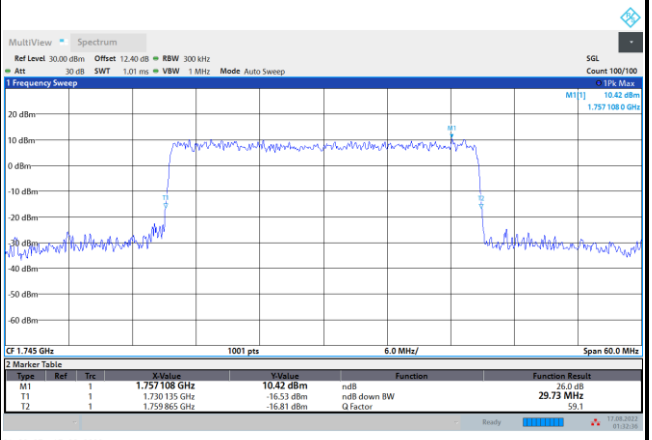


FR1 n66 / 30MHz / CP OFDM / Middle Channel / Full RB

QPSK



16QAM



64QAM

256QAM

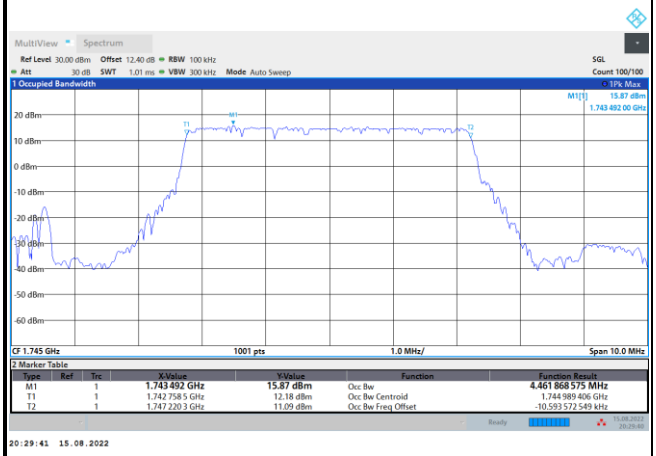
Occupied Bandwidth

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	4.46		8.92		13.51		18.00	
BW	25MHz		30MHz		40MHz			
Mod.	PI/2 BPSK		PI/2 BPSK		PI/2 BPSK			
Middle CH	-		28.59		-			

Mode	FR1 n66 : 99%OBW (MHz) / CP OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	4.51	4.50	9.30	9.29	14.17	14.14	18.97	19.00
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	4.48	4.50	9.26	9.28	14.17	14.16	18.96	18.98
BW	25MHz		30MHz		40MHz			
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM		
Middle CH	-	-	28.59	28.50	-	-		
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM		
Middle CH	-	-	28.60	28.64	-	-		

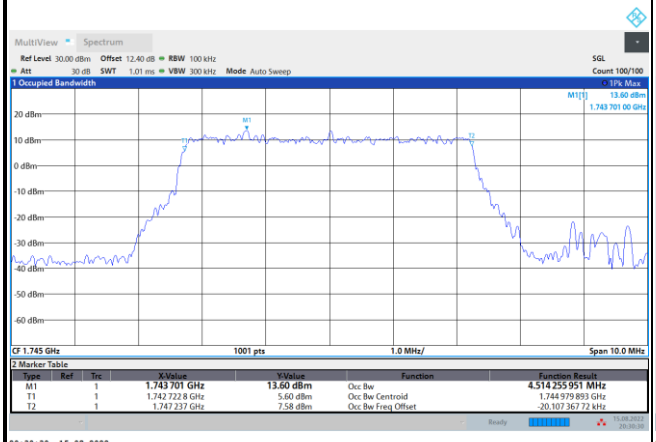
FR1 n66 / 5MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

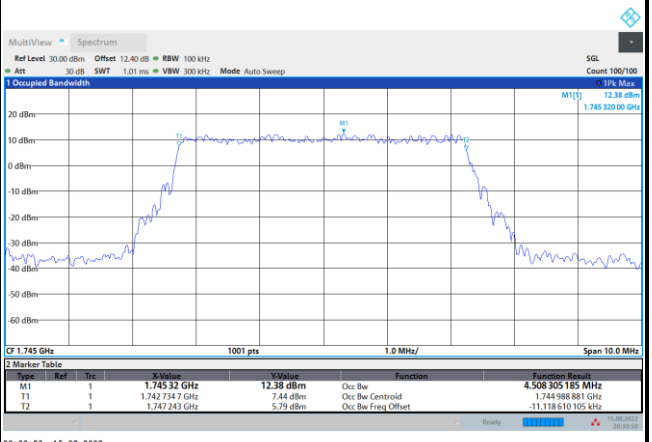


FR1 n66 / 5MHz / CP OFDM / Middle Channel / Full RB

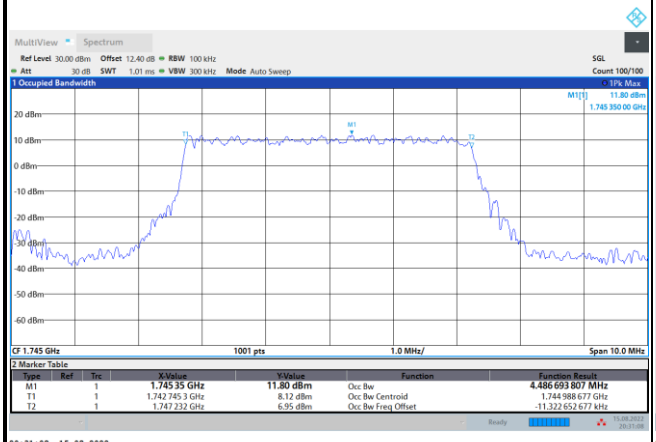
QPSK



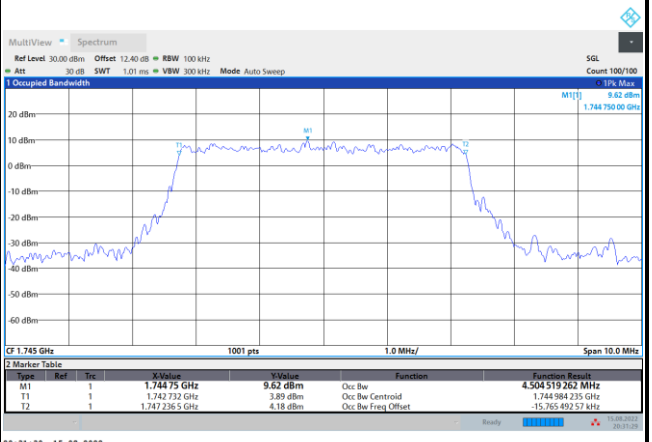
16QAM



64QAM

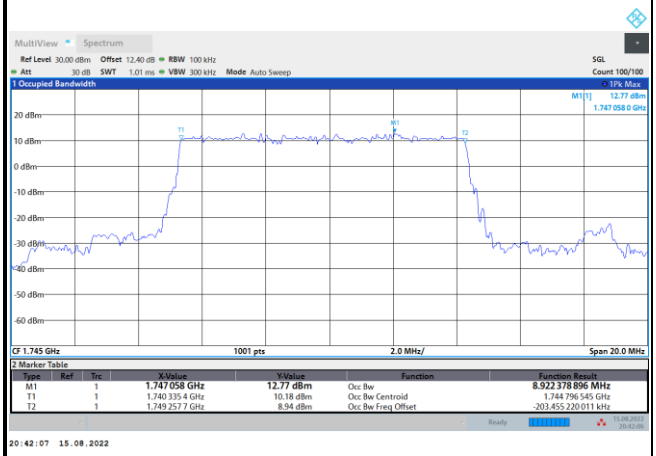


256QAM



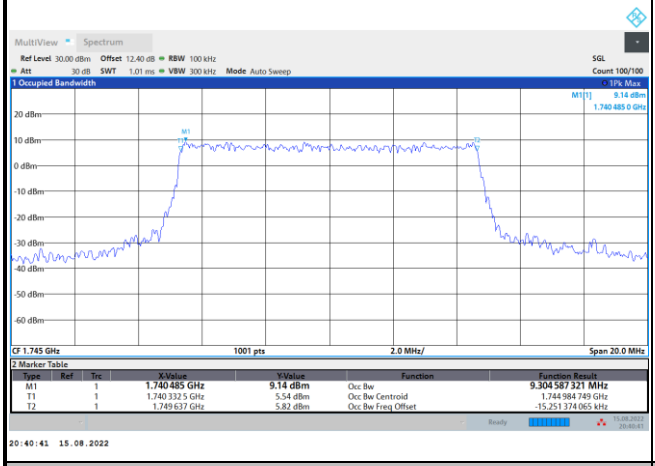
FR1 n66 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



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

QPSK



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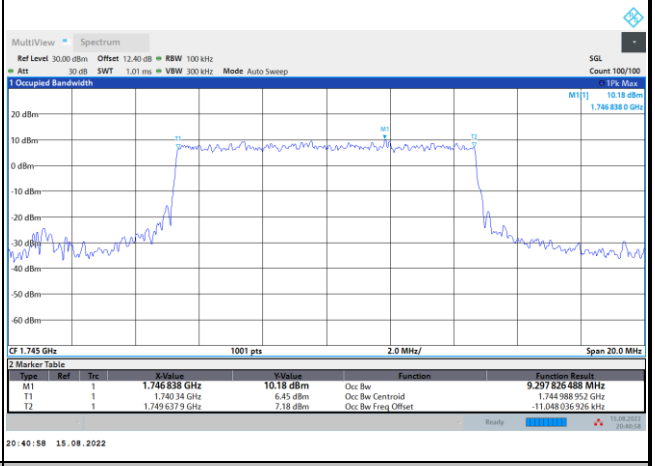

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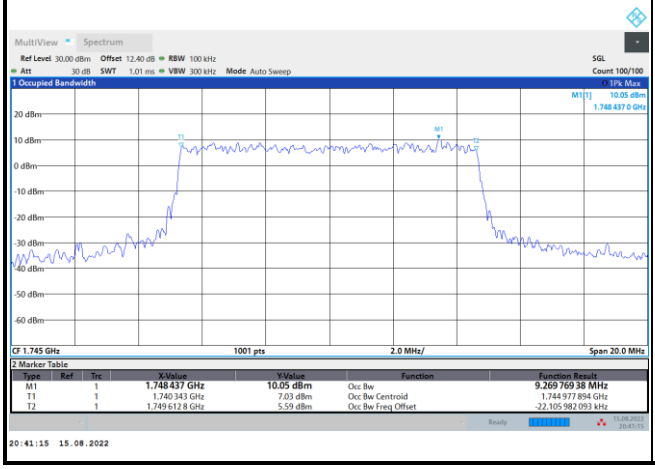

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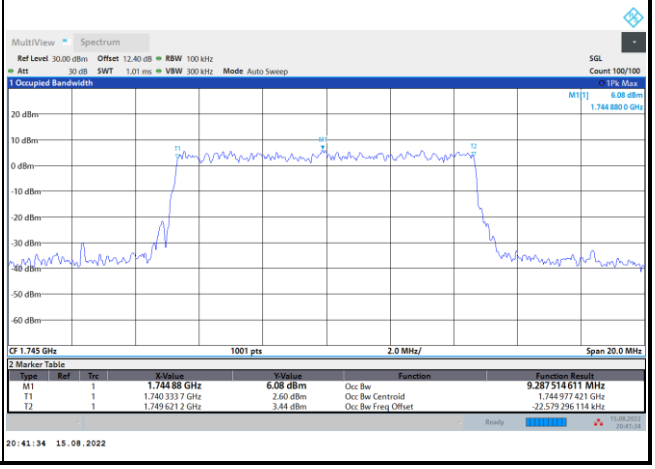
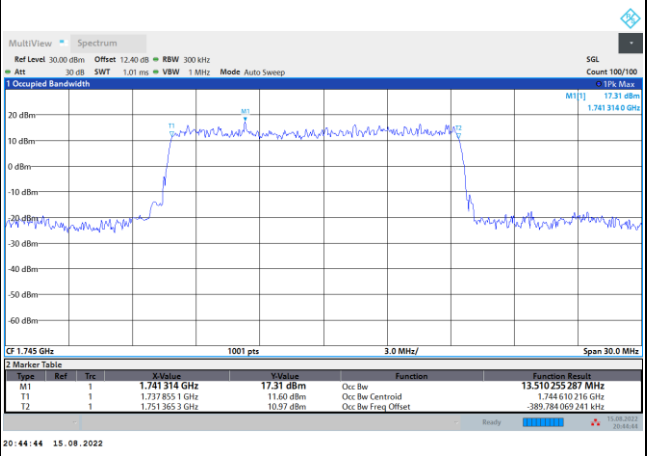


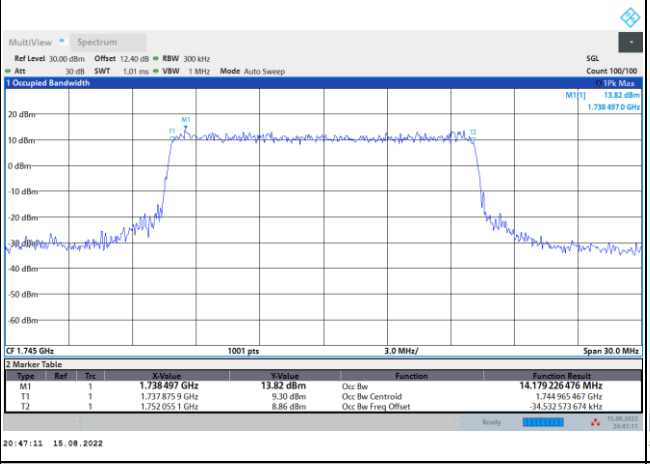
FR1 n66 / 15MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

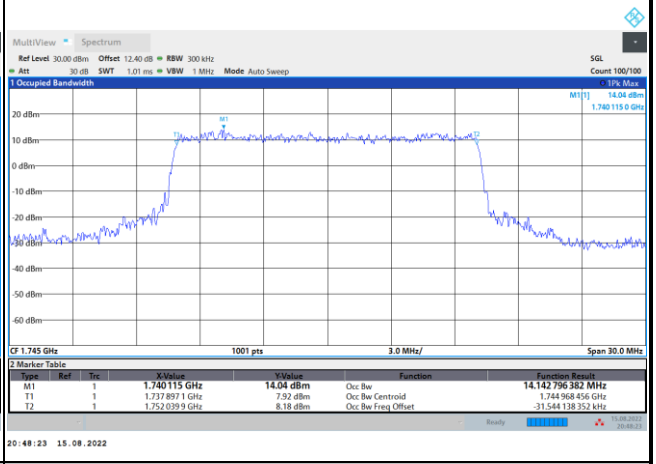


FR1 n66 / 15MHz / CP OFDM / Middle Channel / Full RB

QPSK



16QAM



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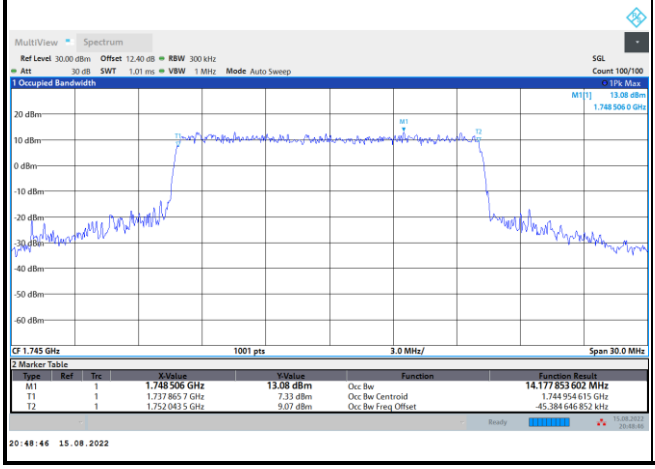

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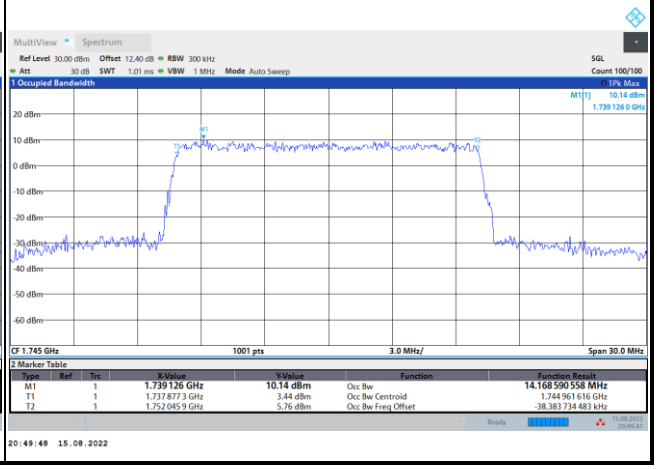
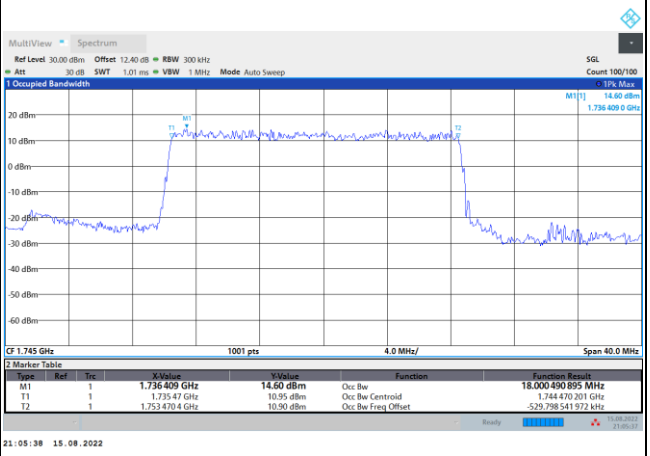


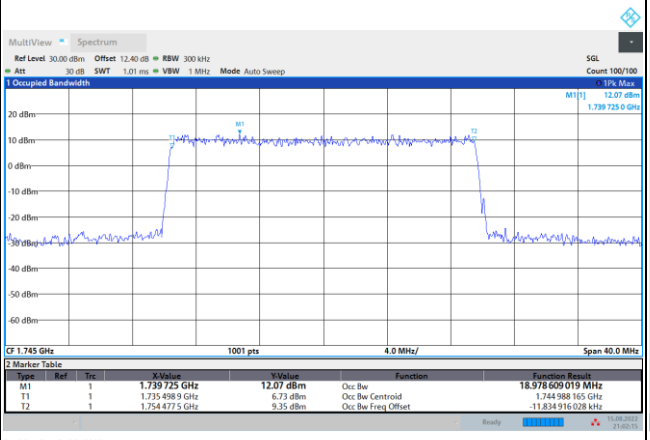
FR1 n66 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



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

QPSK



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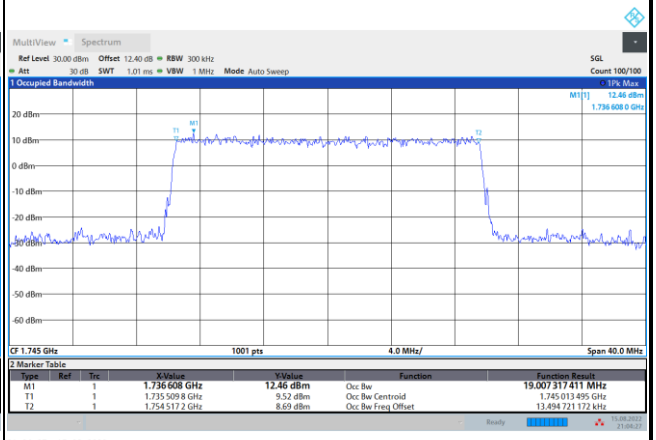

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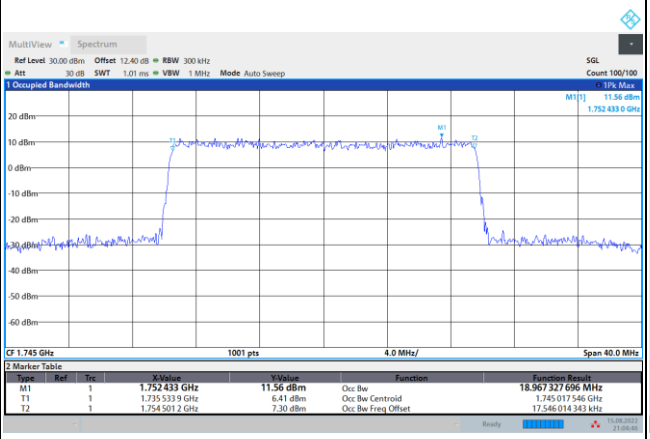
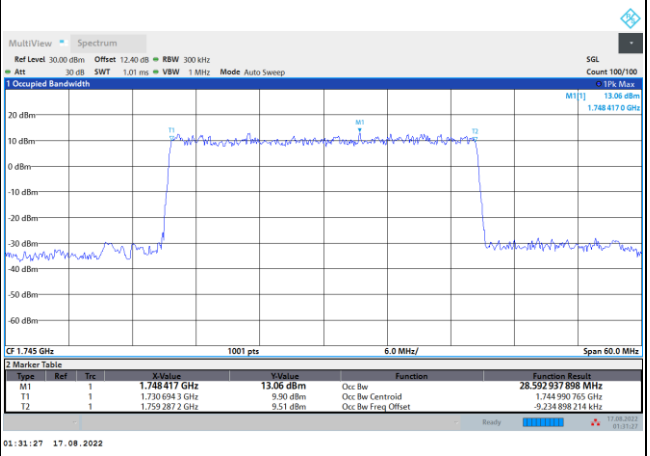


256QAM

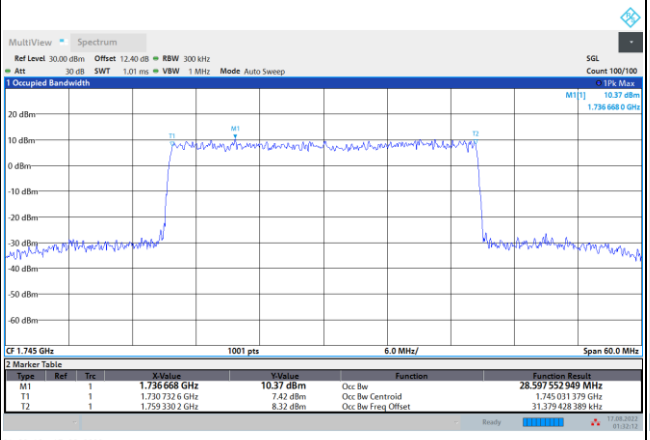
FR1 n66 / 30MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



FR1 n66 / 30MHz / CP OFDM / Middle Channel / Full RB

QPSK



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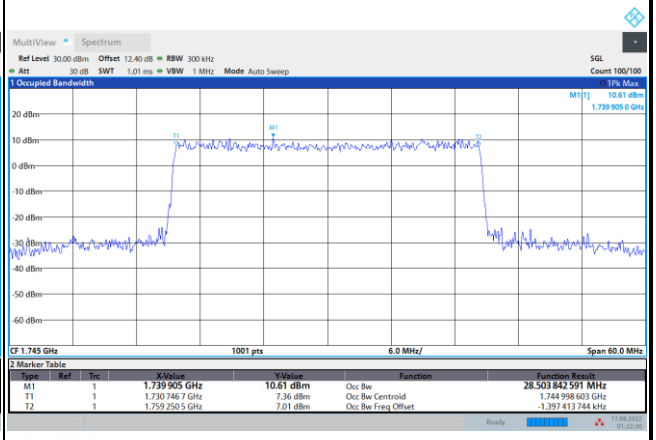

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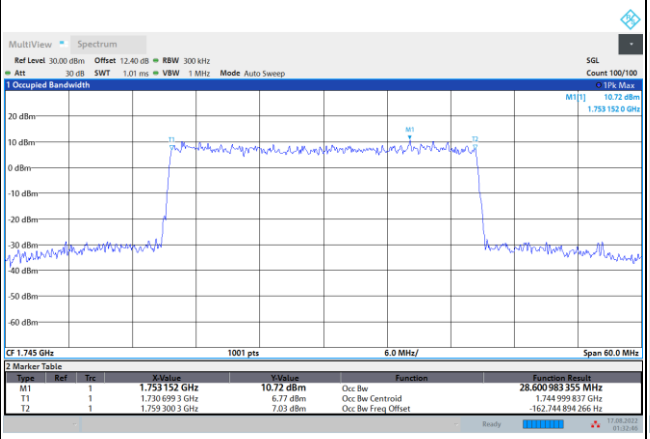
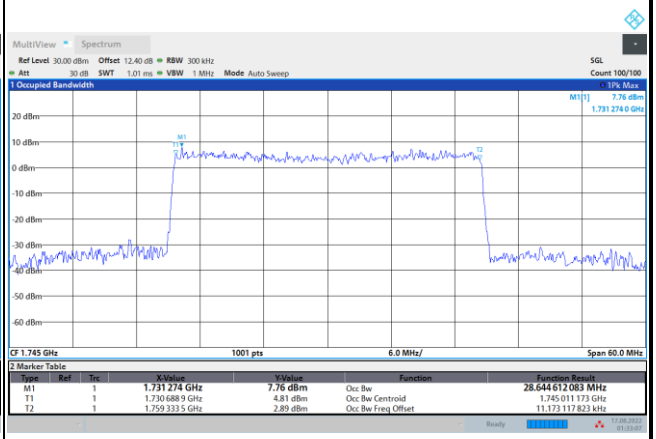


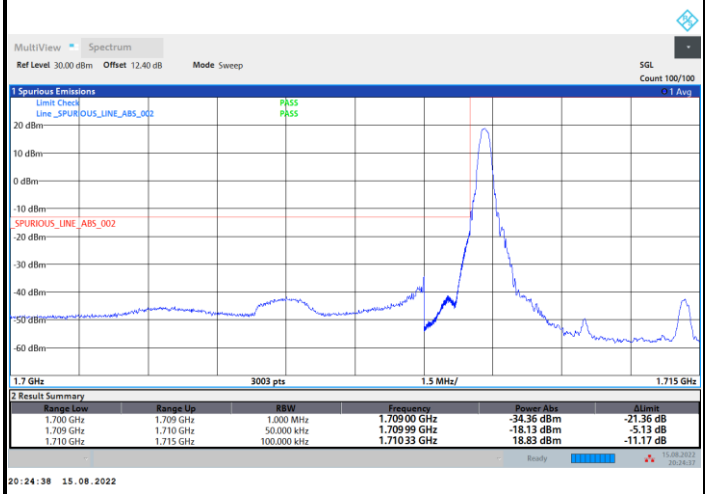
256QAM



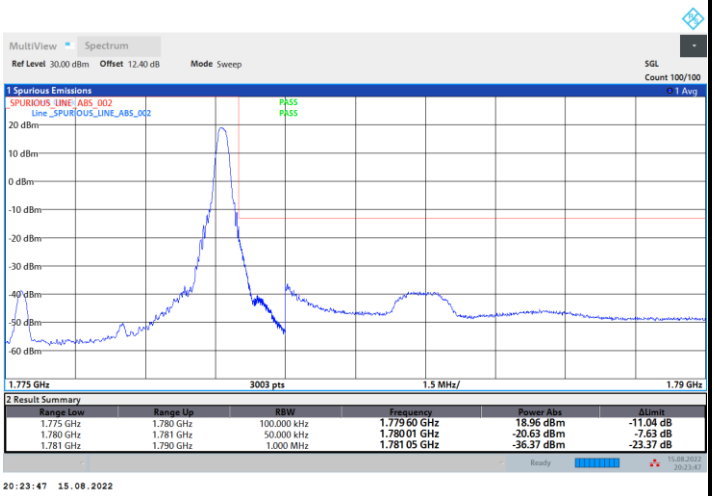
Conducted Band Edge

FR1 n66 / 5MHz / DFT-S OFDM / PI/2 BPSK

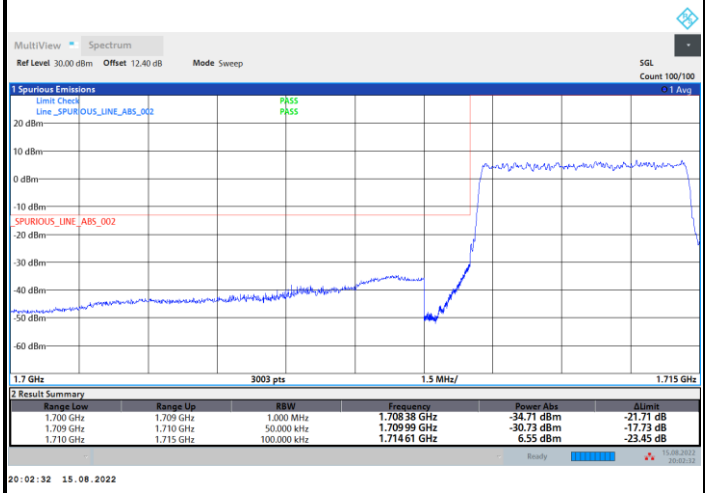
Lowest Band Edge / 1RB0



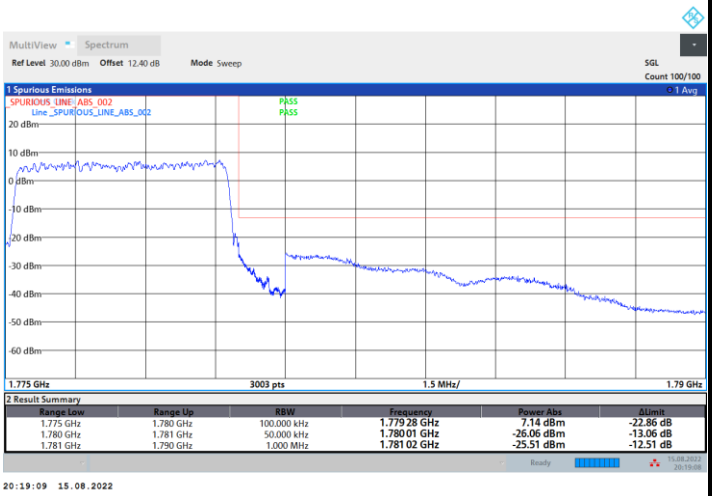
Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

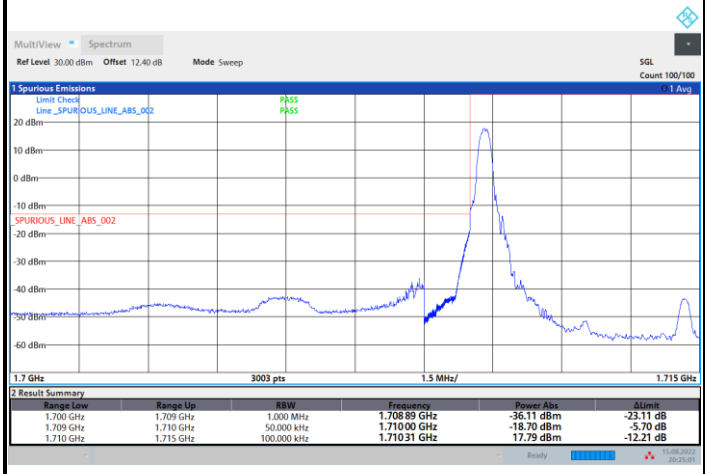


Highest Band Edge / Full RB

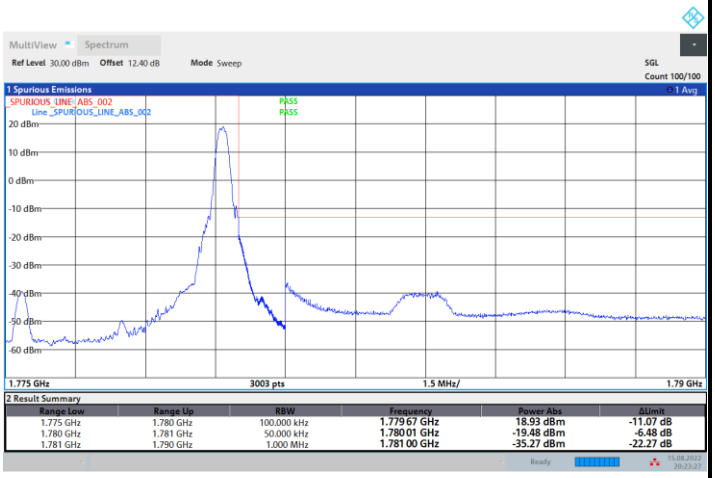


FR1 n66 / 5MHz / DFT-S OFDM / QPSK

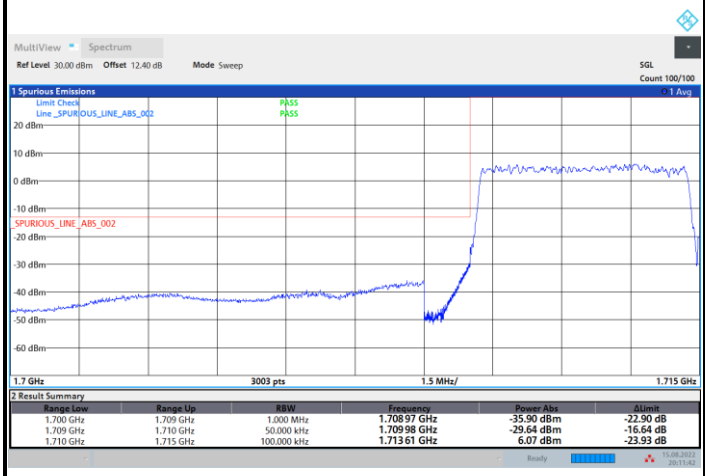
Lowest Band Edge / 1RB0



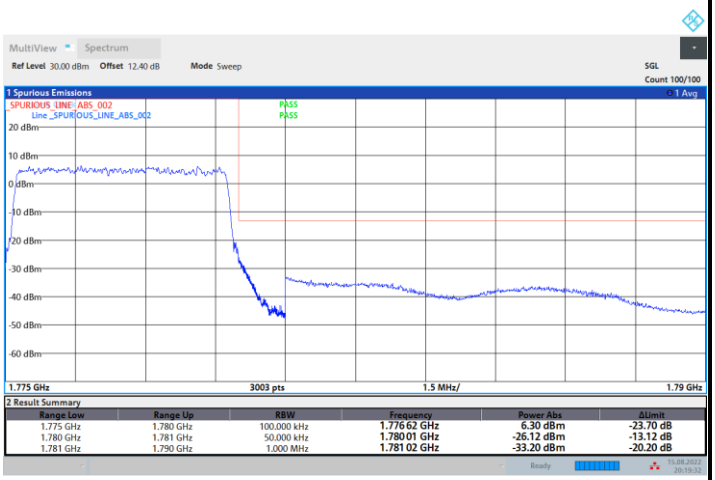
Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

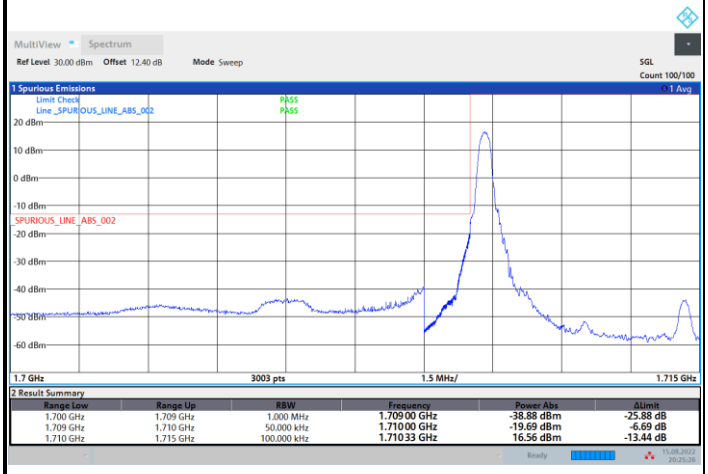


Highest Band Edge / Full RB

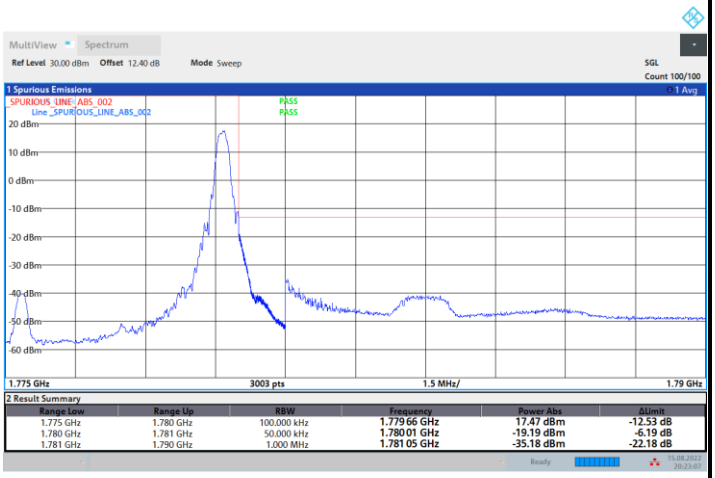


FR1 n66 / 5MHz / DFT-S OFDM / 16QAM

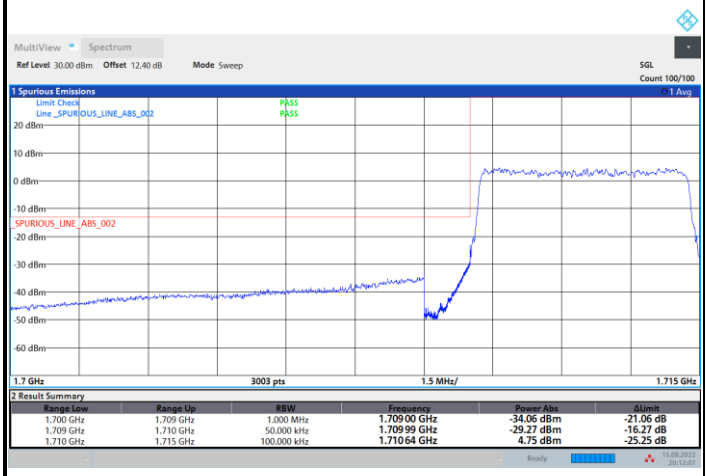
Lowest Band Edge / 1RB0



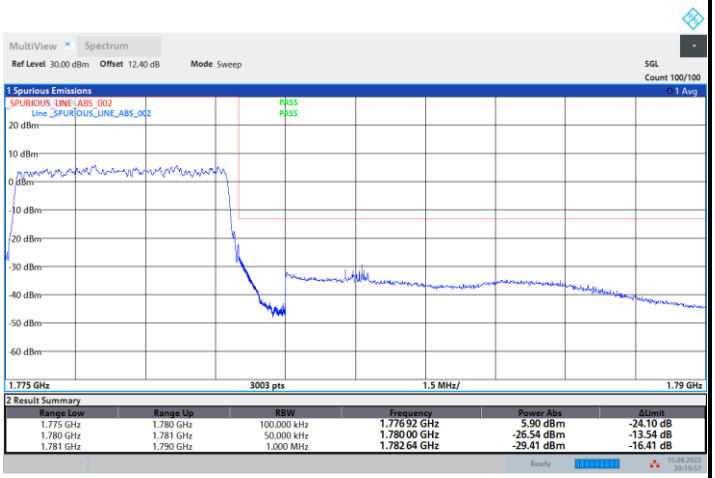
Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

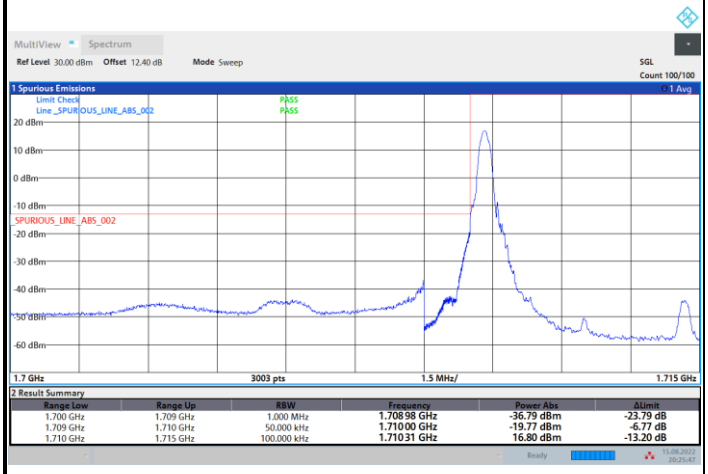


Highest Band Edge / Full RB

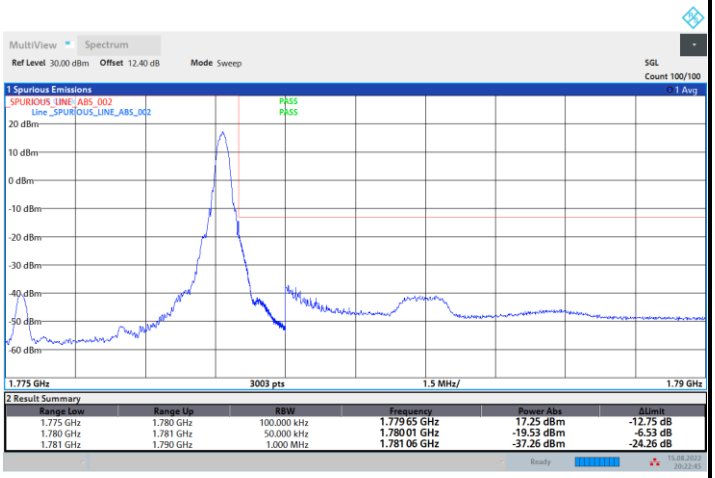


FR1 n66 / 5MHz / DFT-S OFDM / 64QAM

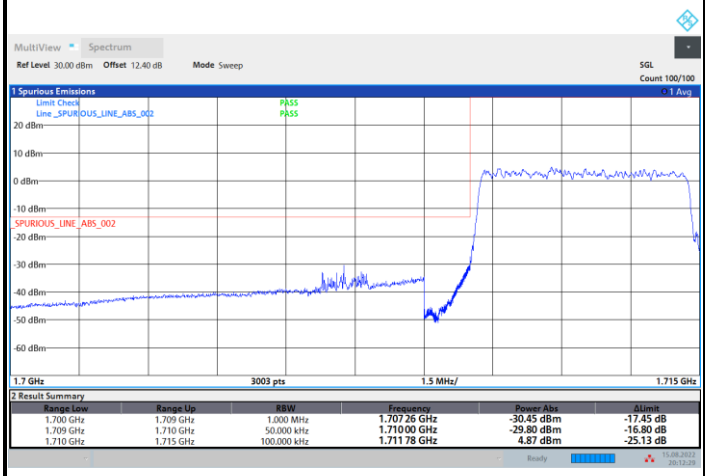
Lowest Band Edge / 1RB0



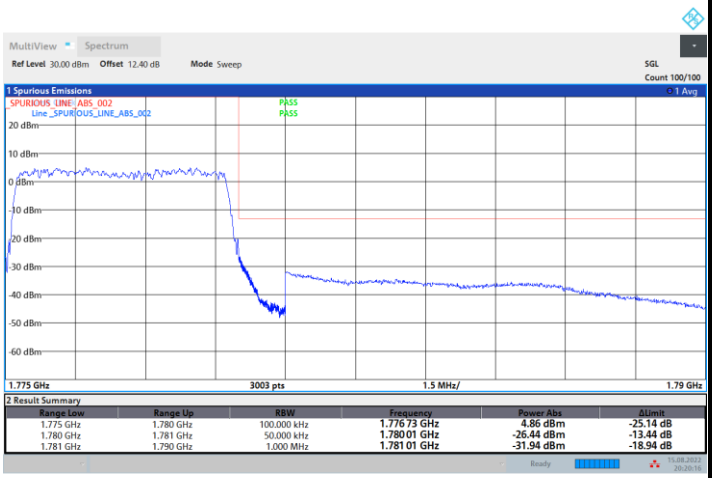
Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

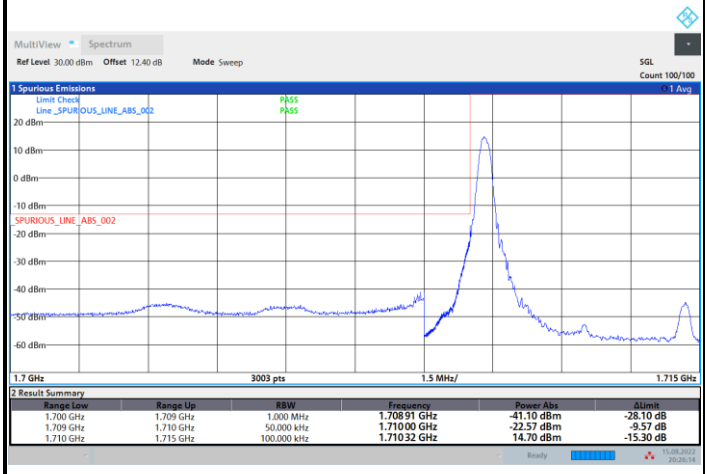


Highest Band Edge / Full RB

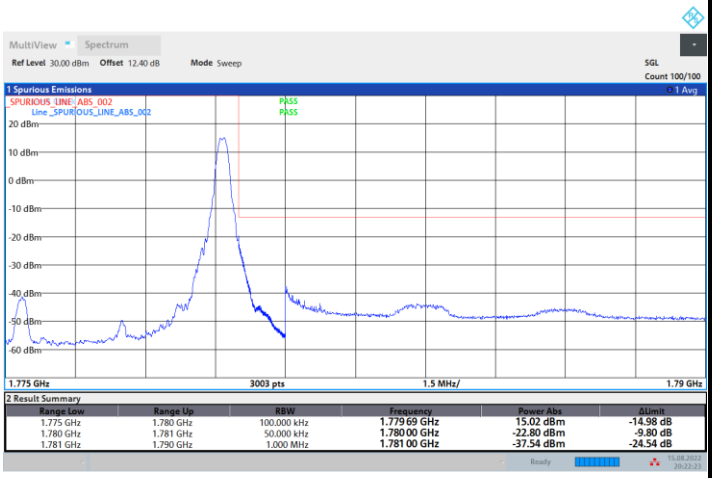


FR1 n66 / 5MHz / DFT-S OFDM / 256QAM

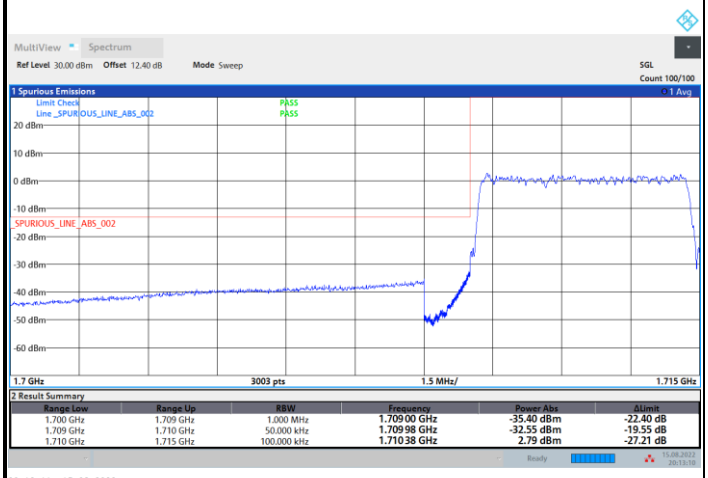
Lowest Band Edge / 1RB0



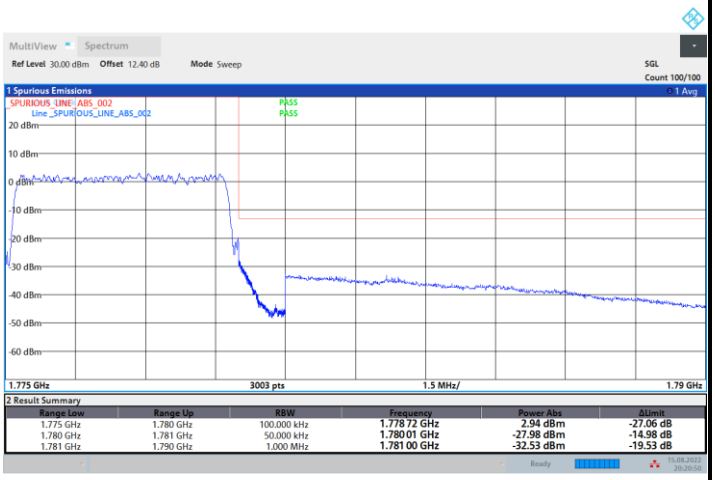
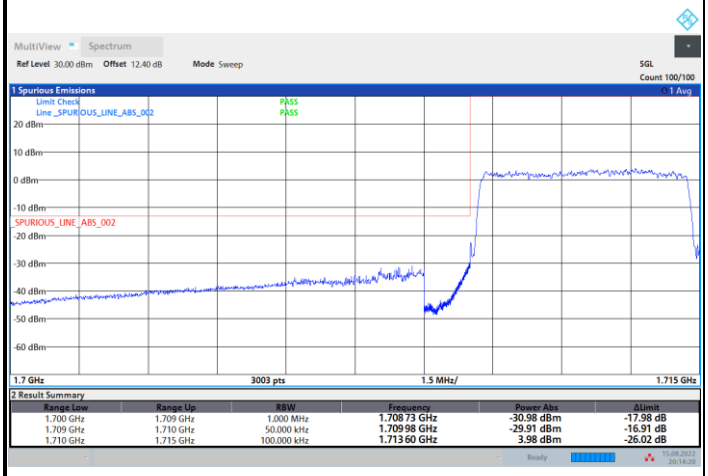
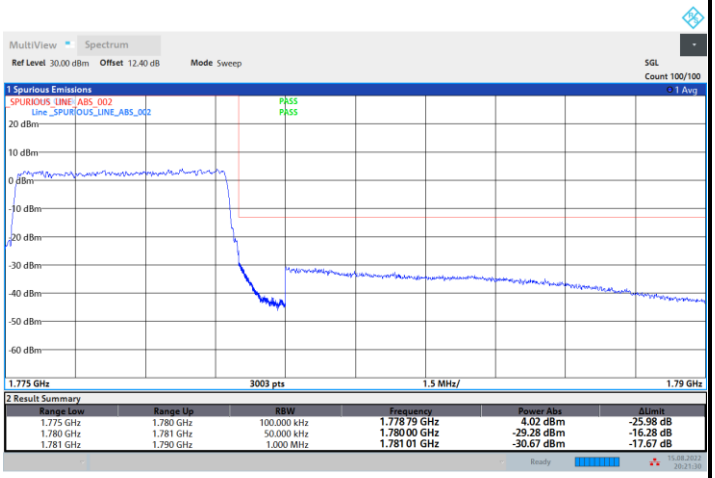
Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB



Highest Band Edge / Full RB



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