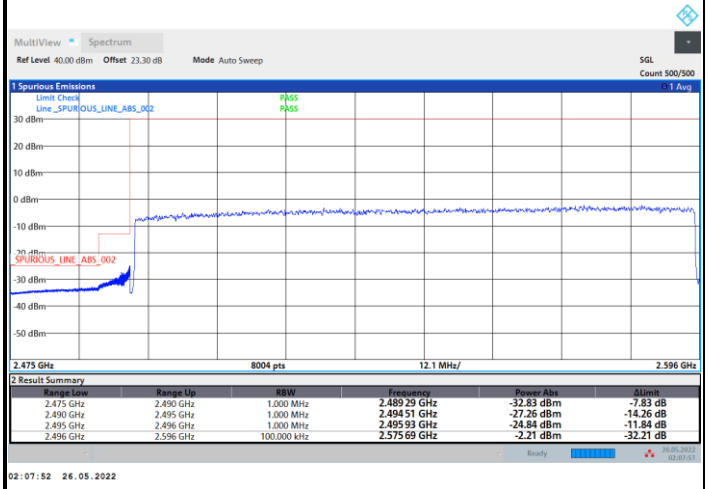
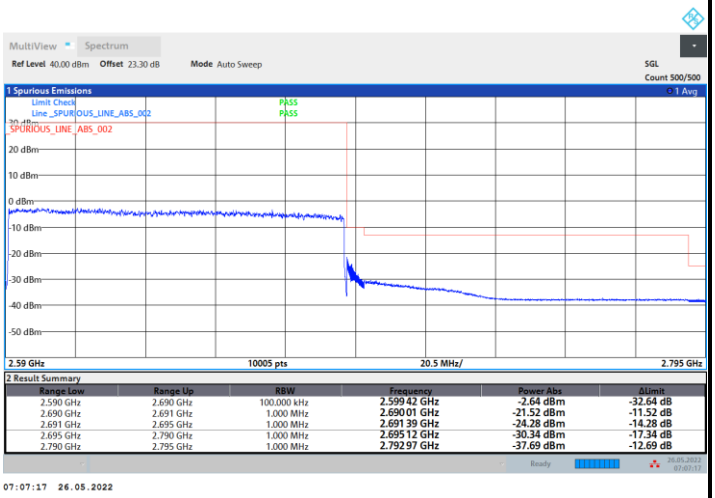
FR1 n41 / 100MHz / CP OFDM / 64QAM

Lowest Band Edge / Full RB

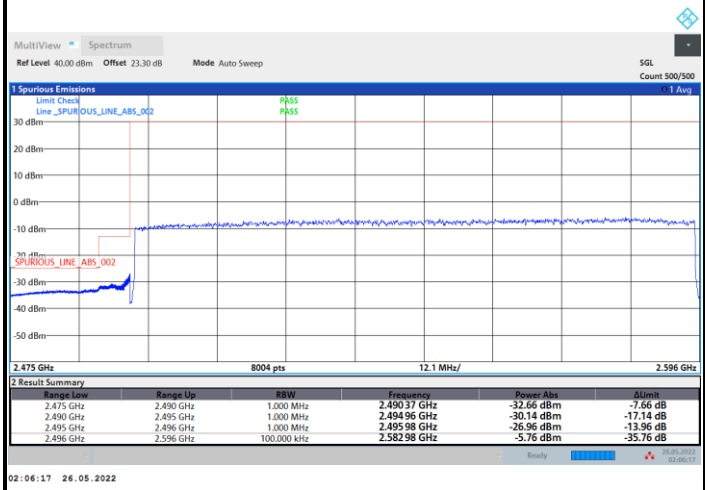


Highest Band Edge / Full RB

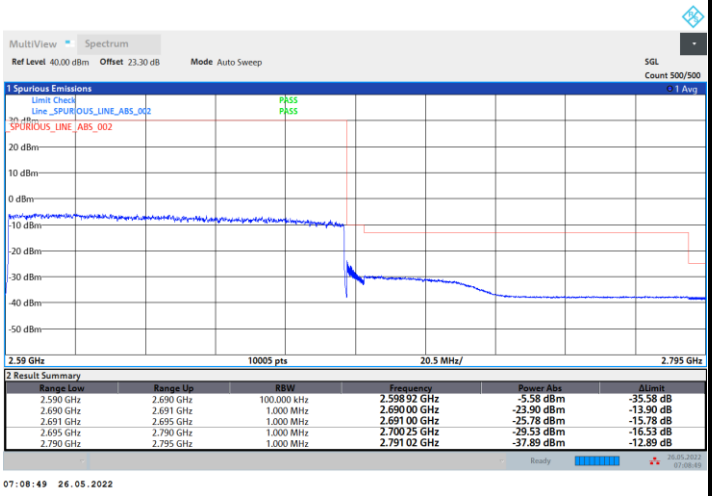


FR1 n41 / 100MHz / CP OFDM / 256QAM

Lowest Band Edge / Full RB



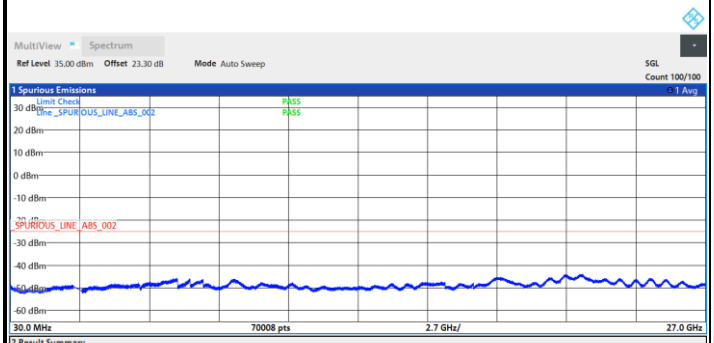
Highest Band Edge / Full RB



Conducted Spurious Emission

FR1 n41 / 10MHz / CP OFDM / QPSK / 1RB1

Lowest Channel



2 Result Summary

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	48.304 17 MHz	-48.86 dBm	-23.86 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.451 22 GHz	-48.71 dBm	-23.71 dB
2.795 GHz	3.000 GHz	1.000 MHz	2.966 47 GHz	-50.03 dBm	-25.03 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.488 65 GHz	-45.75 dBm	-20.75 dB
7.000 GHz	10.000 GHz	1.000 MHz	8.673 60 GHz	-46.13 dBm	-21.13 dB
10.000 GHz	14.000 GHz	1.000 MHz	10.968 10 GHz	-47.63 dBm	-22.63 dB
14.000 GHz	18.000 GHz	1.000 MHz	16.753 52 GHz	-47.32 dBm	-22.32 dB
18.000 GHz	27.000 GHz	1.000 MHz	22.154 42 GHz	-43.91 dBm	-18.91 dB

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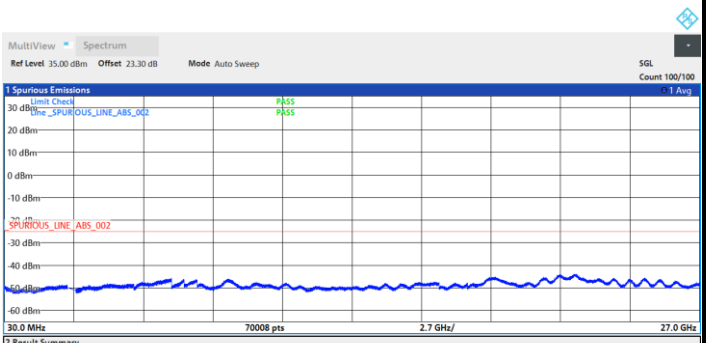
Middle Channel



2 Result Summary

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	38.364 16 MHz	-48.77 dBm	-23.77 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.151 87 GHz	-48.77 dBm	-23.77 dB
2.795 GHz	3.000 GHz	1.000 MHz	2.985 94 GHz	-49.89 dBm	-24.89 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.503 85 GHz	-45.71 dBm	-20.71 dB
7.000 GHz	10.000 GHz	1.000 MHz	8.723 85 GHz	-46.06 dBm	-21.06 dB
10.000 GHz	14.000 GHz	1.000 MHz	10.952 50 GHz	-47.80 dBm	-22.80 dB
14.000 GHz	18.000 GHz	1.000 MHz	16.732 73 GHz	-47.32 dBm	-22.32 dB
18.000 GHz	27.000 GHz	1.000 MHz	22.192 67 GHz	-43.83 dBm	-18.83 dB

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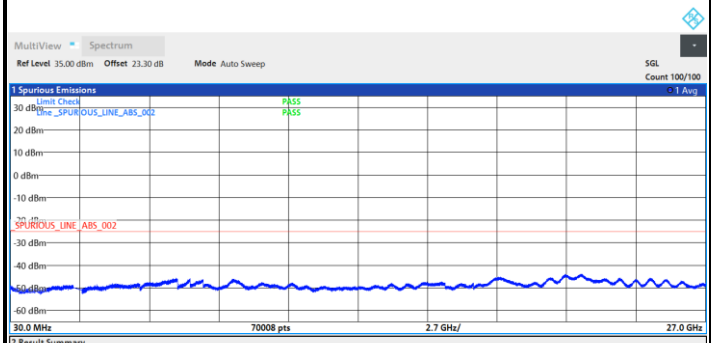
Highest Channel



2 Result Summary

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	37.879 28 MHz	-49.01 dBm	-24.01 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.429 47 GHz	-48.74 dBm	-23.74 dB
2.795 GHz	3.000 GHz	1.000 MHz	2.946 59 GHz	-49.78 dBm	-24.78 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.450 65 GHz	-45.59 dBm	-20.59 dB
7.000 GHz	10.000 GHz	1.000 MHz	8.665 35 GHz	-46.12 dBm	-21.12 dB
10.000 GHz	14.000 GHz	1.000 MHz	10.978 50 GHz	-47.72 dBm	-22.72 dB
14.000 GHz	18.000 GHz	1.000 MHz	16.747 53 GHz	-47.36 dBm	-22.36 dB
18.000 GHz	27.000 GHz	1.000 MHz	22.178 72 GHz	-43.82 dBm	-18.82 dB

03:52:17 26.05.2022

Frequency Stability

Test Conditions		FR1 n41 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0021	PASS
40	Normal Voltage	0.0002	
30	Normal Voltage	0.0046	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0022	
0	Normal Voltage	0.0027	
-10	Normal Voltage	0.0013	
-20	Normal Voltage	0.0014	
-30	Normal Voltage	0.0014	
20	Maximum Voltage	0.0016	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0028	

Note:

1. Normal Voltage = 3.86 V.；Battery End Point (BEP) = 3.40 V.；Maximum Voltage = 4.45 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

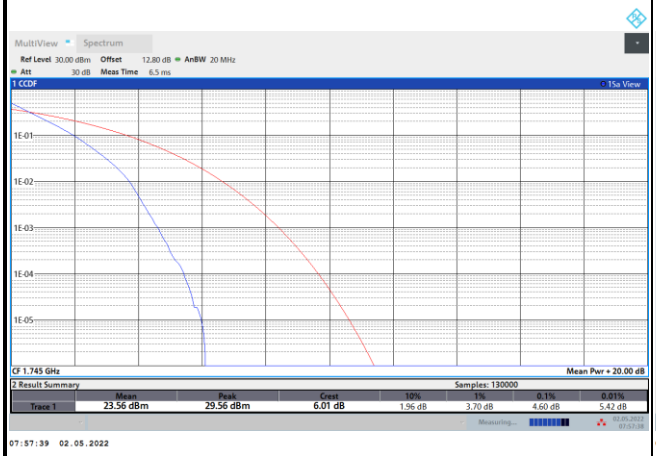
FR1 n66

Peak-to-Average Ratio

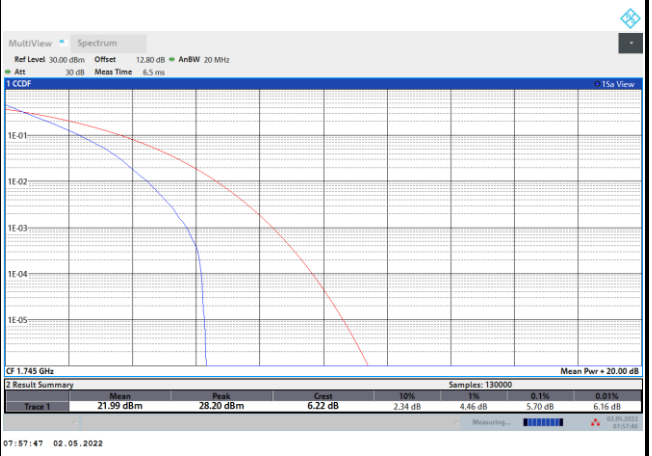
Mode	FR1 n66 / 20MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.60	5.70	6.24	6.16	PASS
Mode	FR1 n66 / 20MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Middle CH	7.06				PASS

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

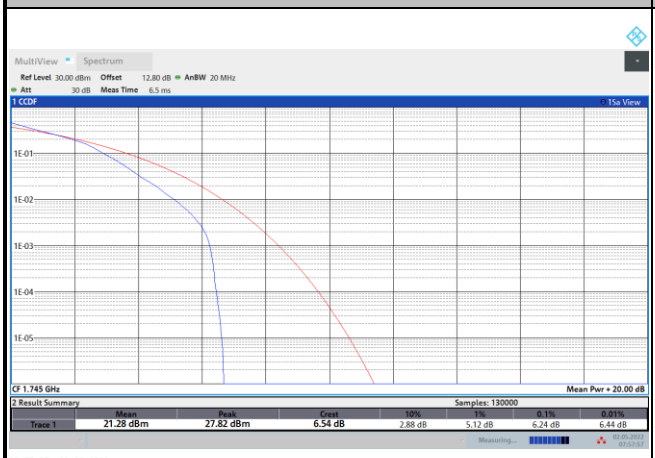
PI/2 BPSK



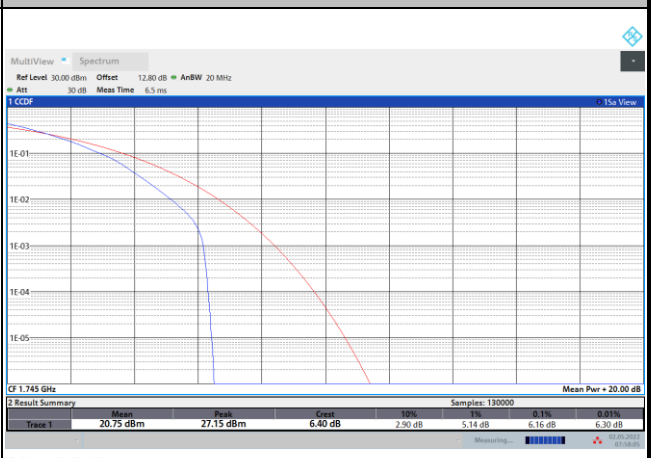
QPSK



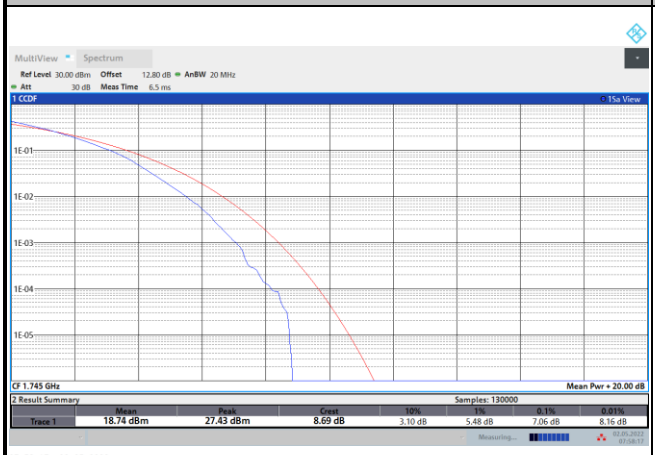
16QAM



64QAM



256QAM



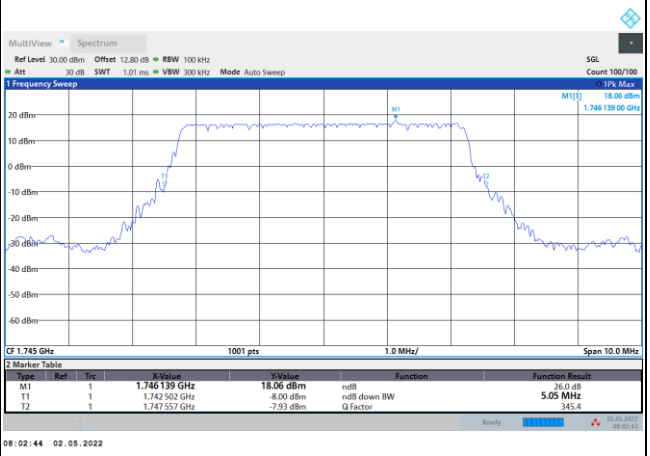
26dB Bandwidth

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	5.06		9.49		14.24		18.98	
BW	25MHz		30MHz		40MHz			
Mod.	PI/2 BPSK		PI/2 BPSK		PI/2 BPSK			
Middle CH	23.93		30.09		41.08			

Mode	FR1 n66 : 26dB BW(MHz) / CP OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	5.16	5.13	10.03	9.81	15.11	15.02	19.78	20.10
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	5.03	5.09	9.93	9.99	15.14	15.08	20.18	20.46
BW	25MHz		30MHz		40MHz			
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM		
Middle CH	25.02	25.13	29.97	29.49	41.24	41.48		
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM		
Middle CH	24.93	24.77	30.15	30.27	41.16	41.64		

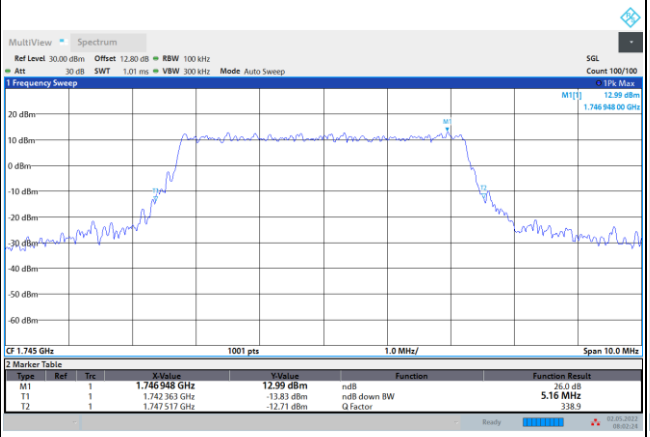
FR1 n66 / 5MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

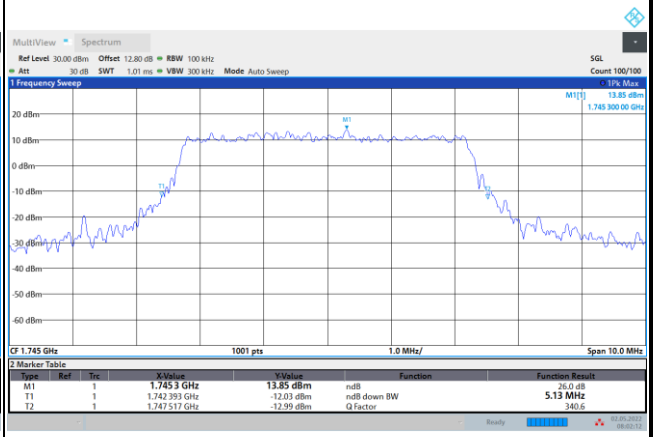


FR1 n66 / 5MHz / CP OFDM / Middle Channel / Full RB

QPSK



16QAM



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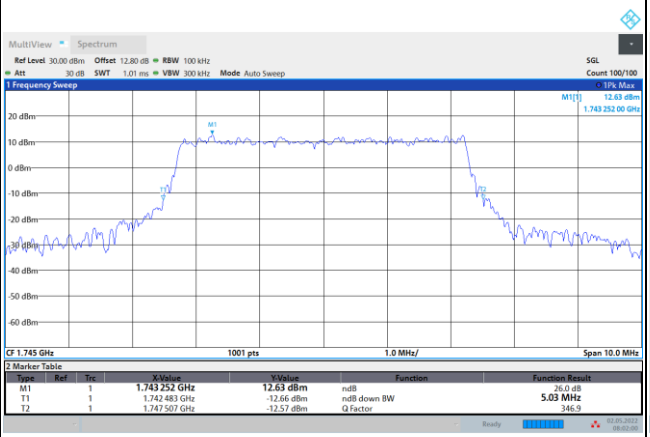
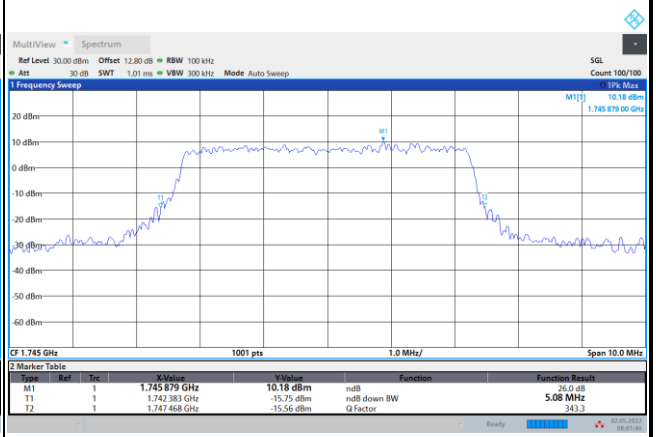
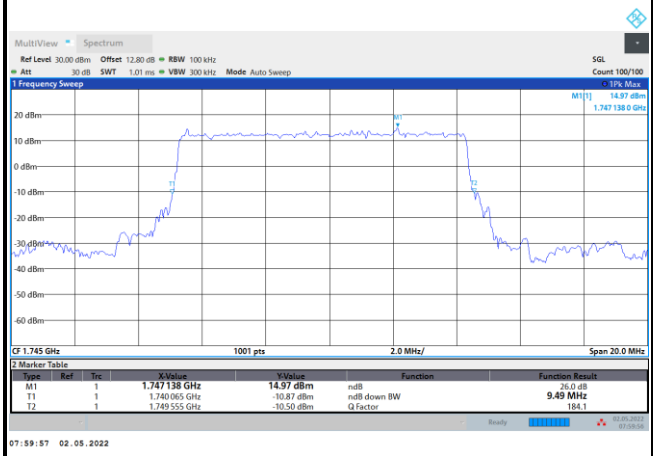


256QAM



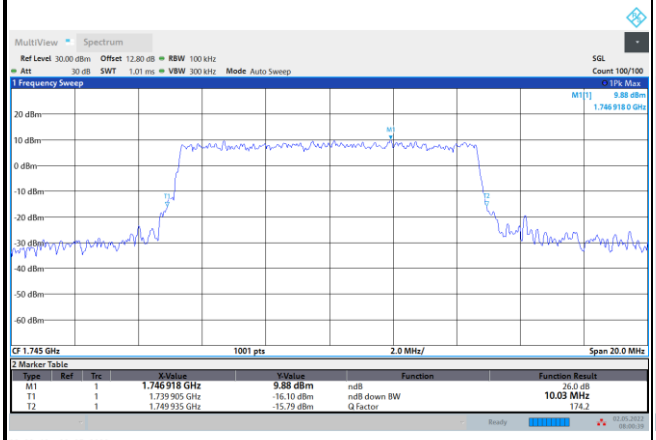
FR1 n66 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



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

QPSK



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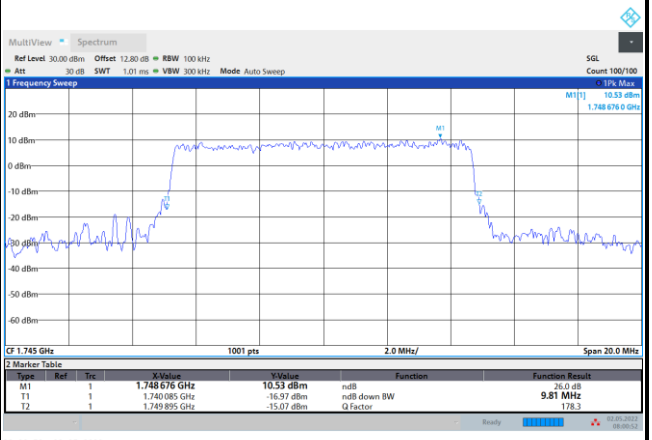

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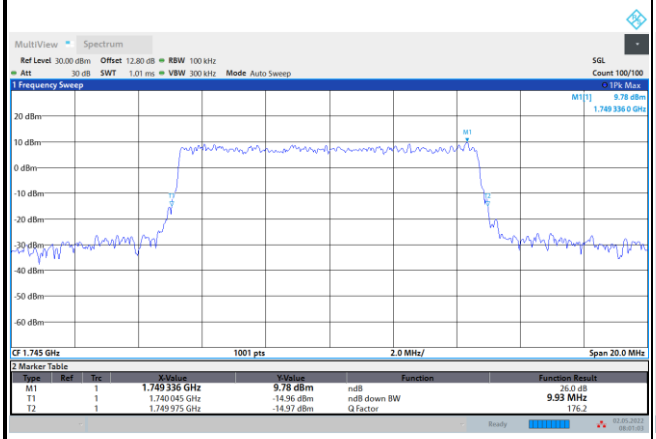

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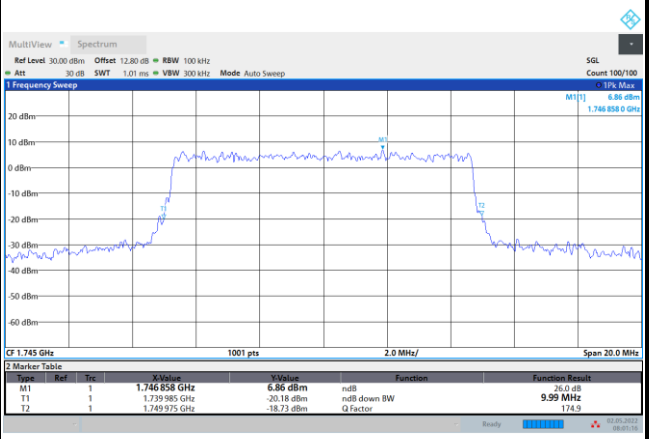
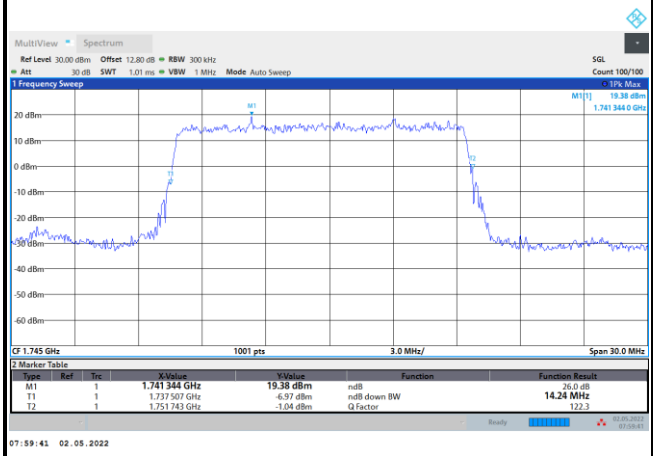


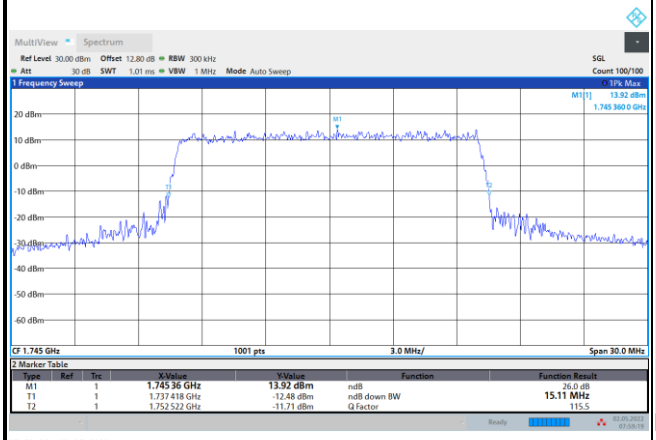
FR1 n66 / 15MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



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

QPSK



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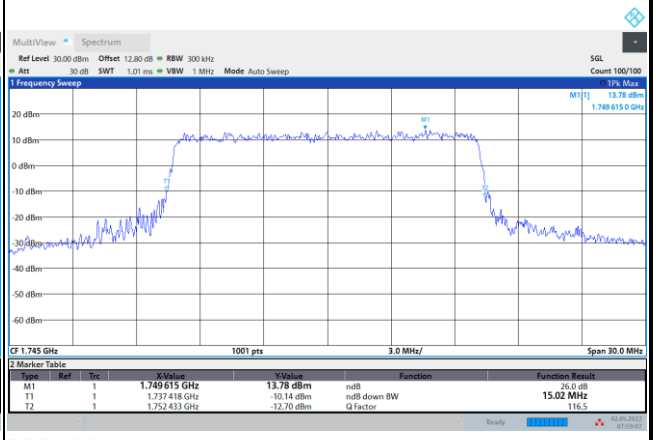

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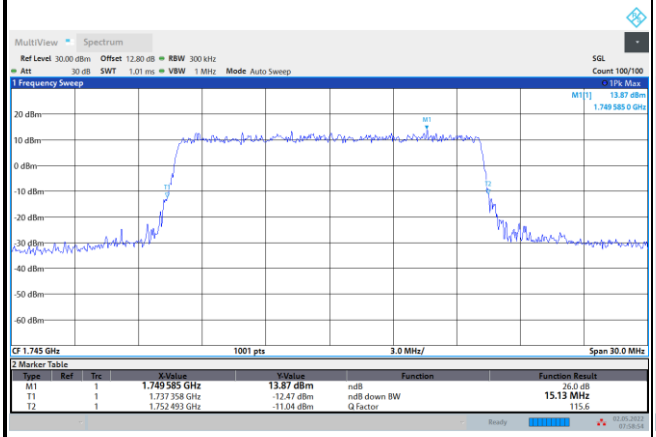

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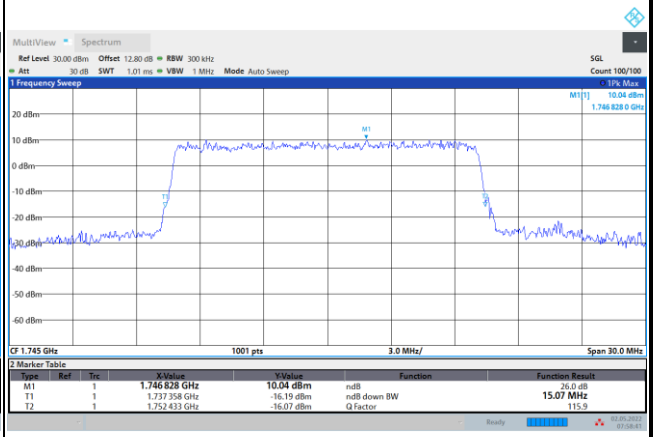
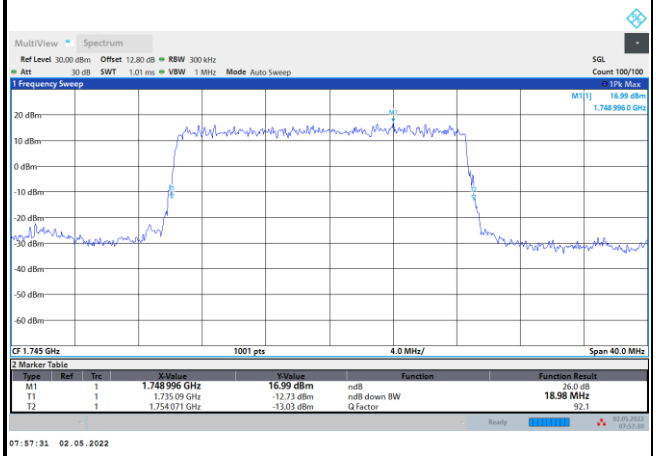


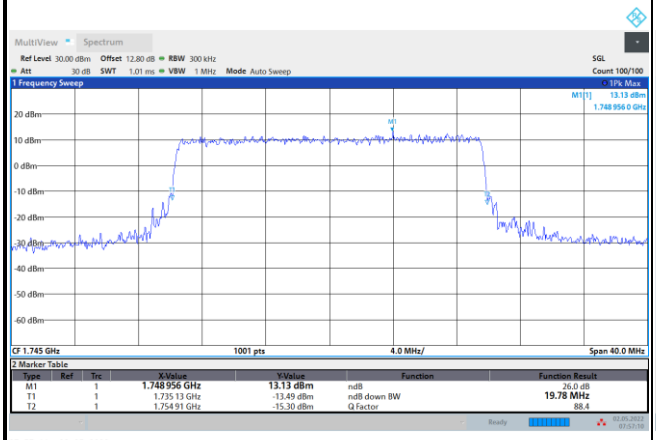
FR1 n66 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



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

QPSK



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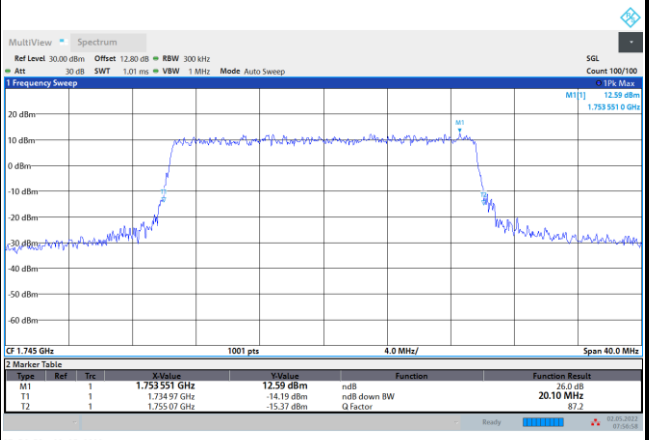

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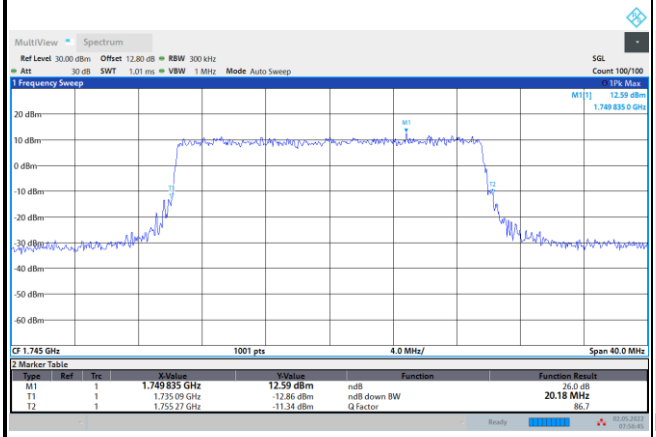

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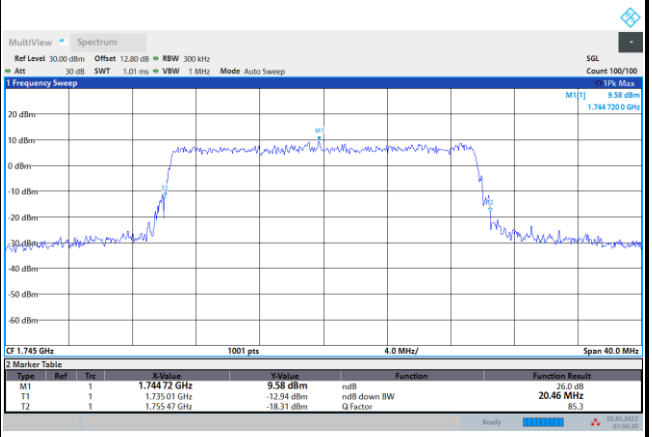
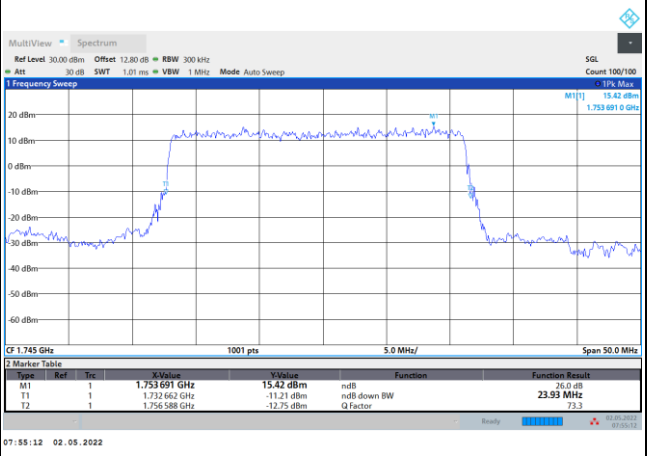


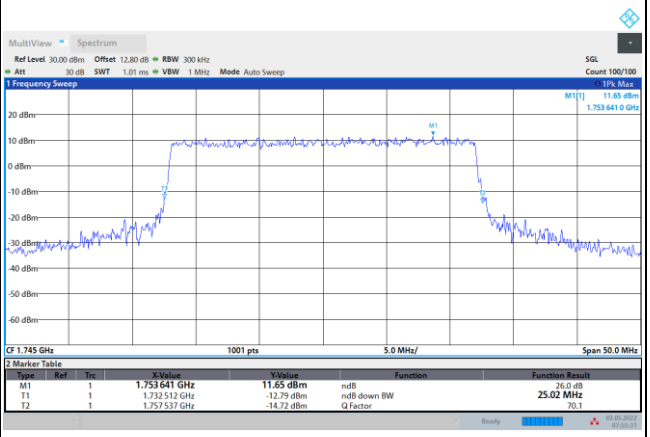
FR1 n66 / 25MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



FR1 n66 / 25MHz / CP OFDM / Middle Channel / Full RB

QPSK



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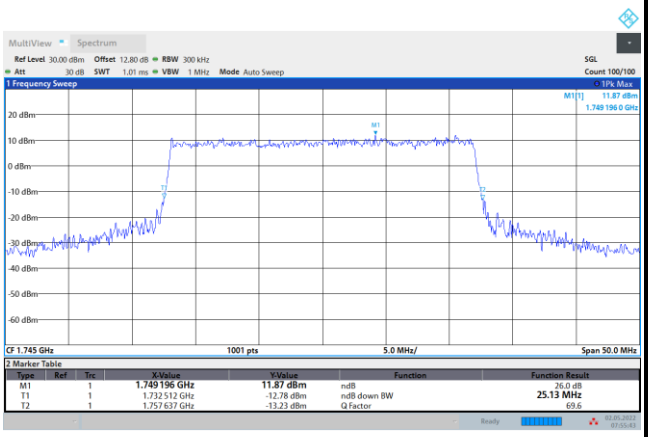

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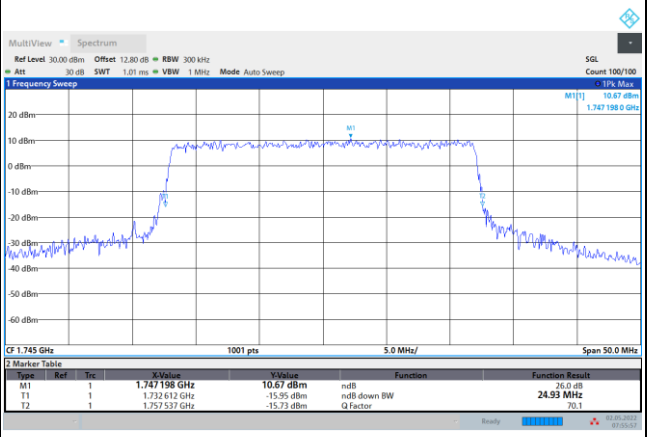

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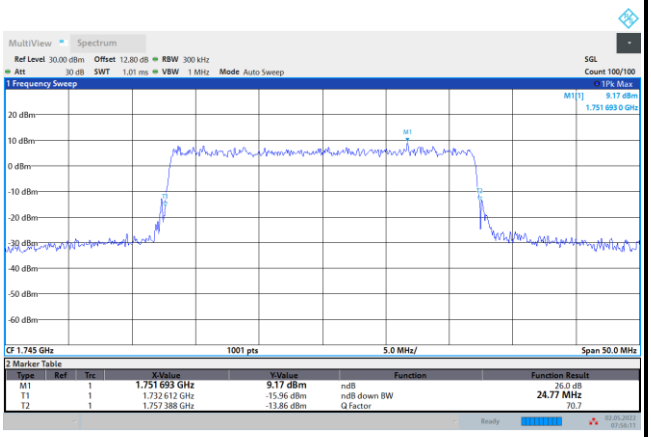
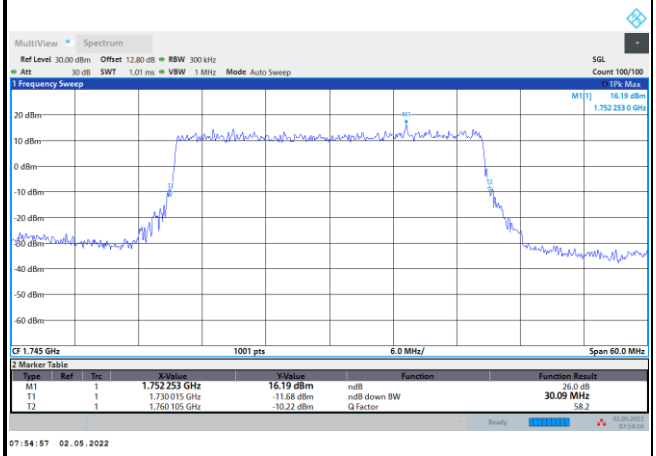


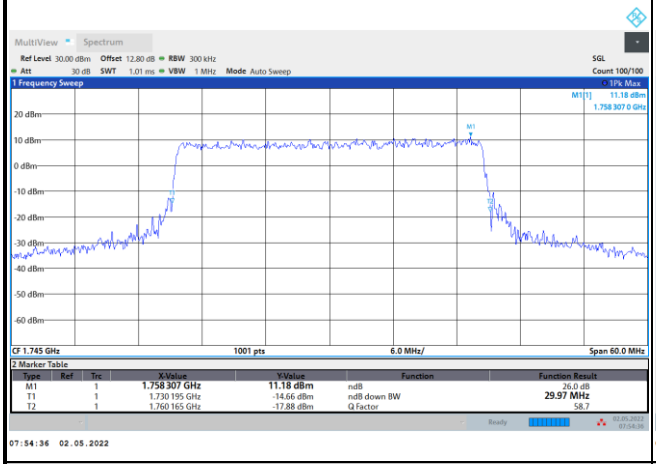
FR1 n66 / 30MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



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

QPSK



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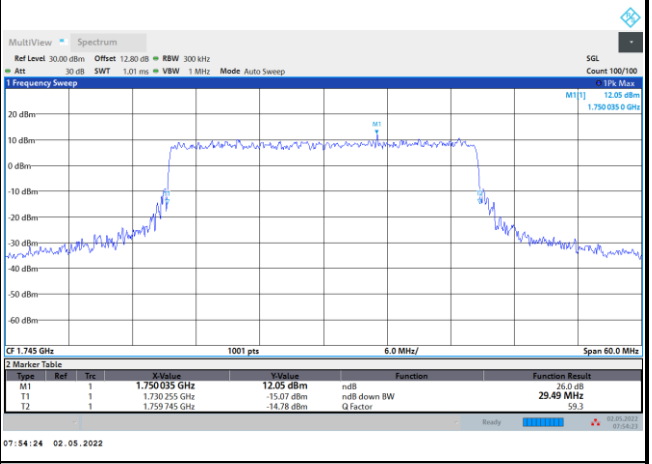
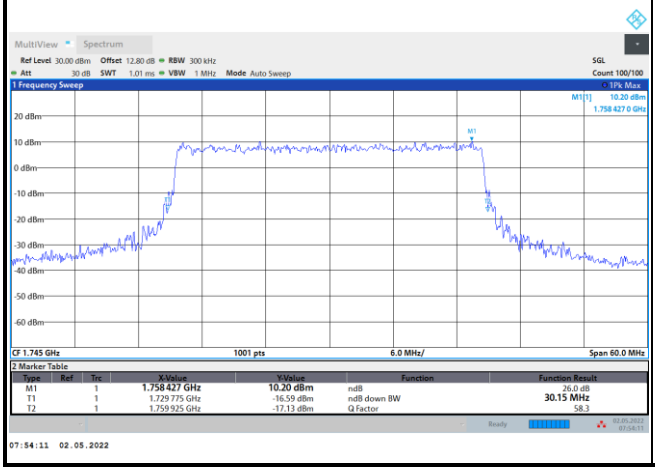


64QAM



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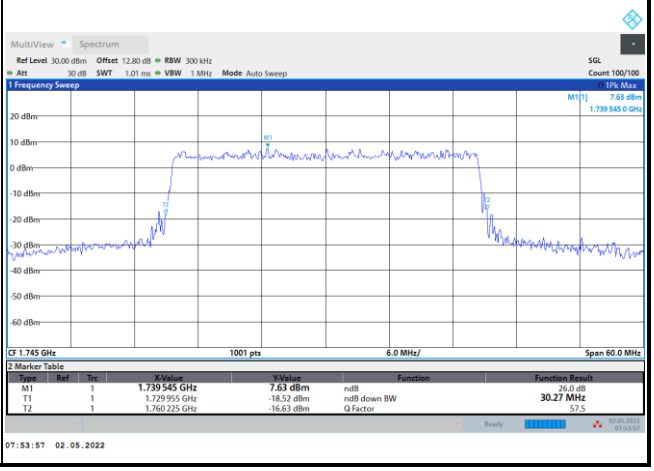
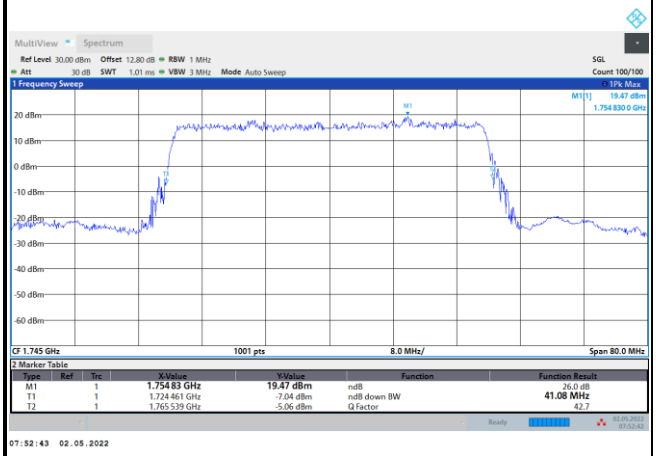


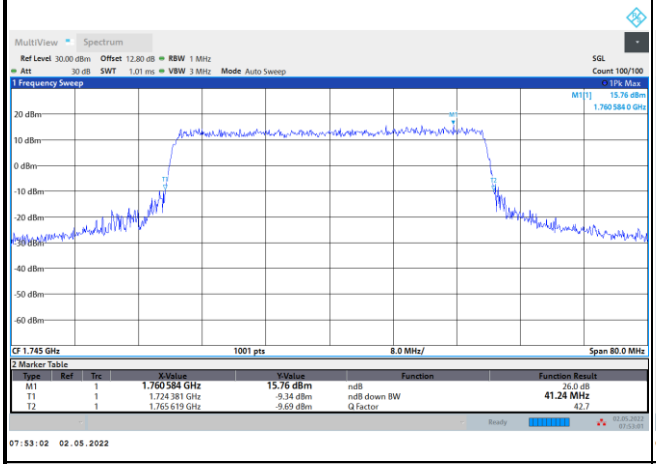
FR1 n66 / 40MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



FR1 n66 / 40MHz / CP OFDM / Middle Channel / Full RB

QPSK



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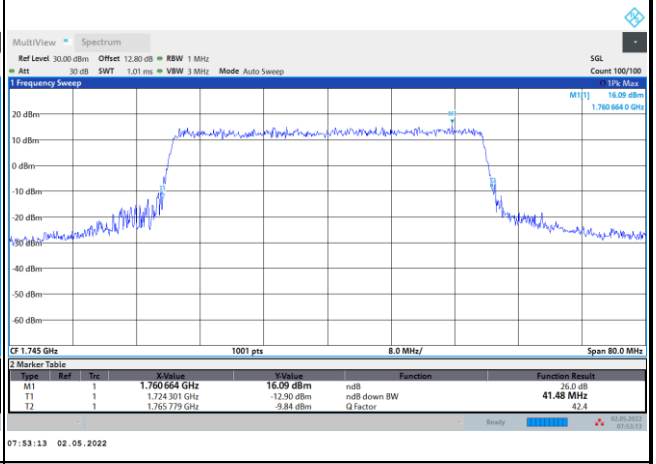

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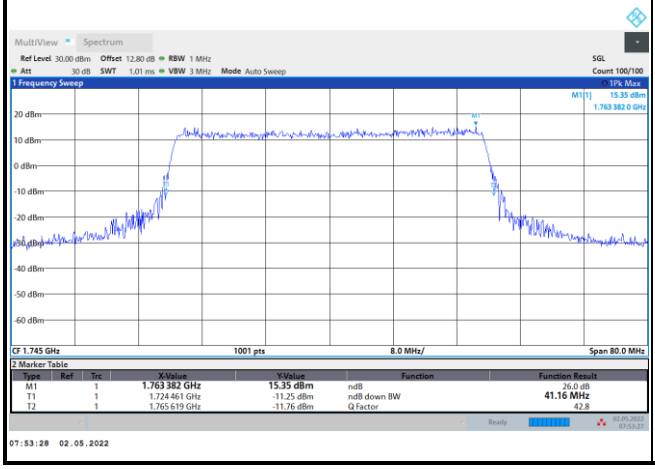

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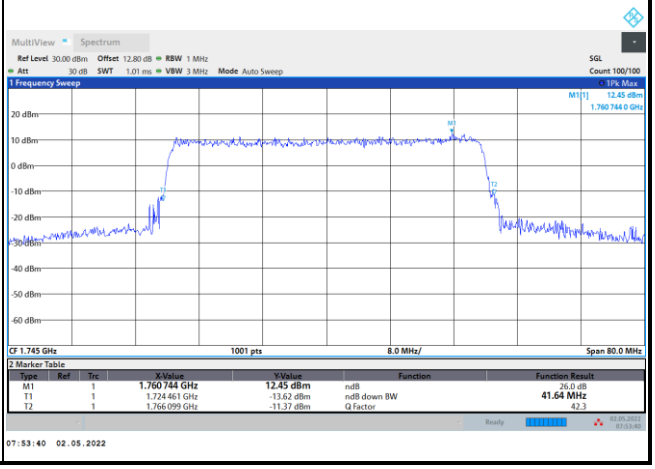


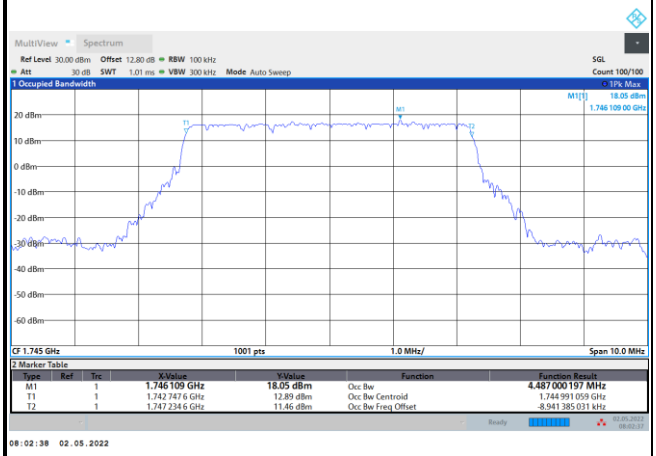
Occupied Bandwidth

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		8.93		13.47		17.92	
BW	25MHz		30MHz		40MHz			
Mod.	PI/2 BPSK		PI/2 BPSK		PI/2 BPSK			
Middle CH	22.87		28.60		38.80			

Mode	FR1 n66 : 99%OBW (MHz) / CP OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	4.49	4.51	9.29	9.28	14.11	14.13	18.93	18.92
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	4.50	4.49	9.30	9.27	14.14	14.15	18.98	18.95
BW	25MHz		30MHz		40MHz			
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM		
Middle CH	23.73	23.78	28.57	28.56	38.84	38.87		
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM		
Middle CH	23.77	23.79	28.60	28.59	38.79	38.87		

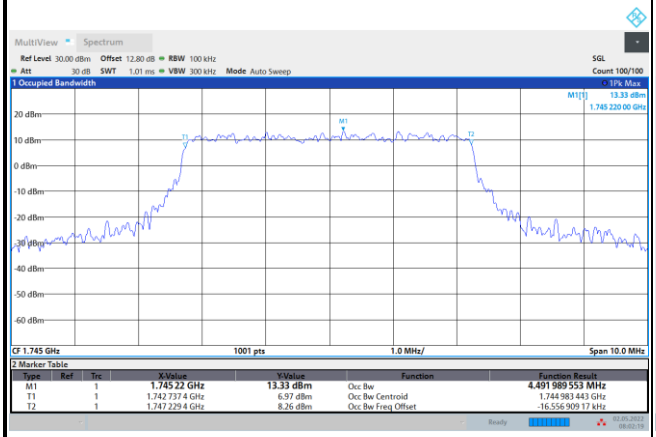
FR1 n66 / 5MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



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

QPSK



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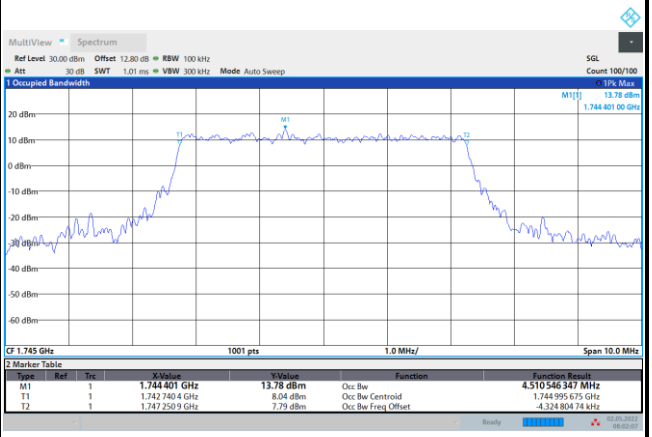

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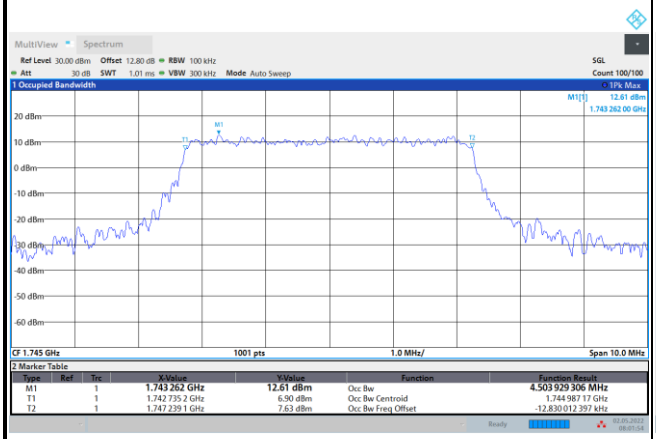

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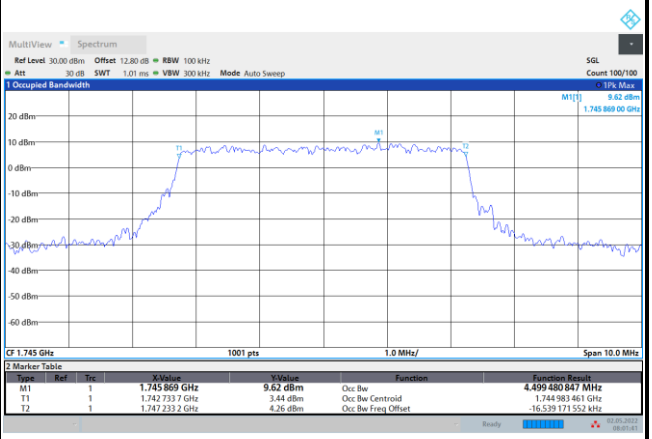
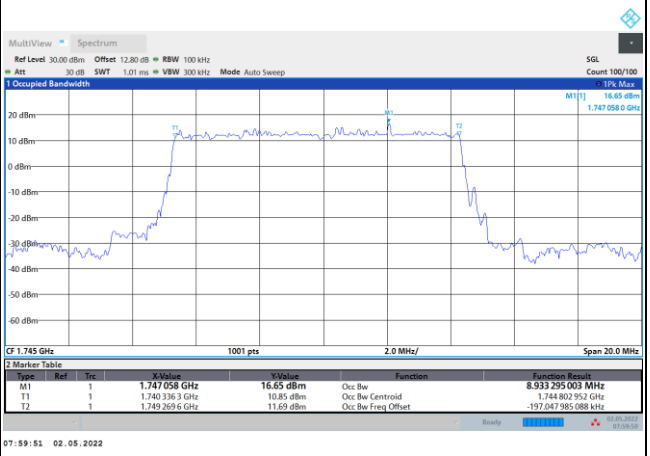


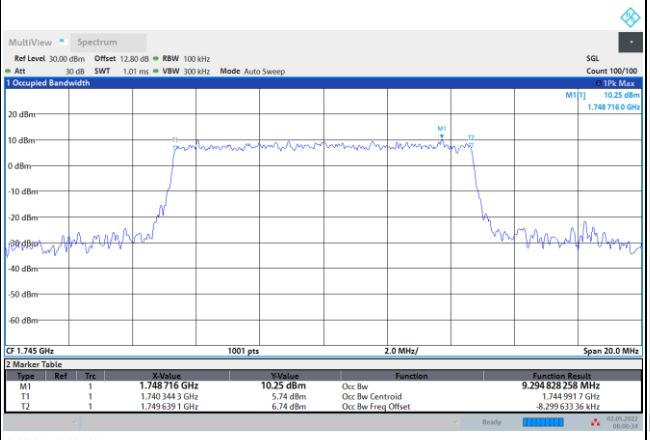
FR1 n66 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



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

QPSK



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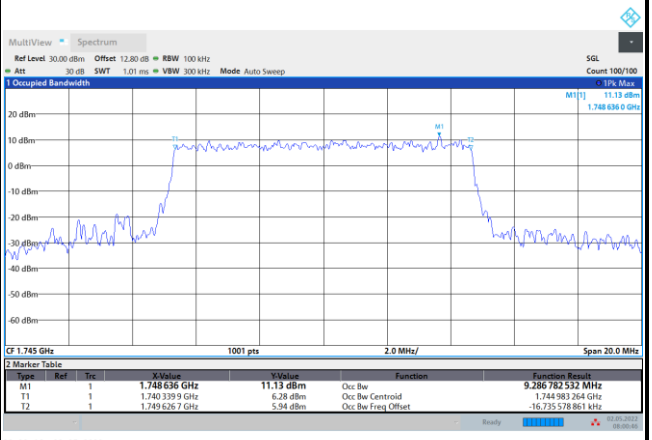

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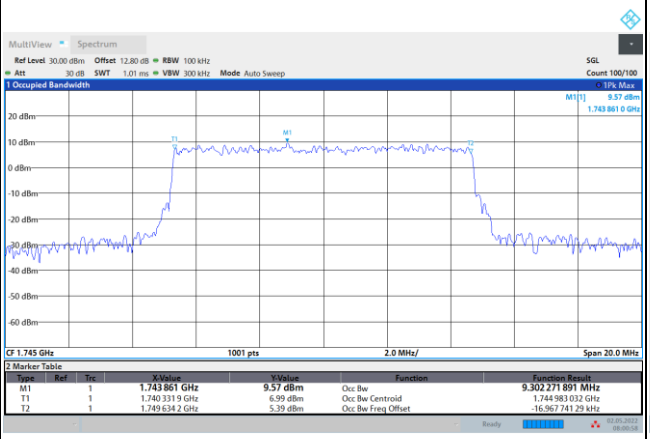

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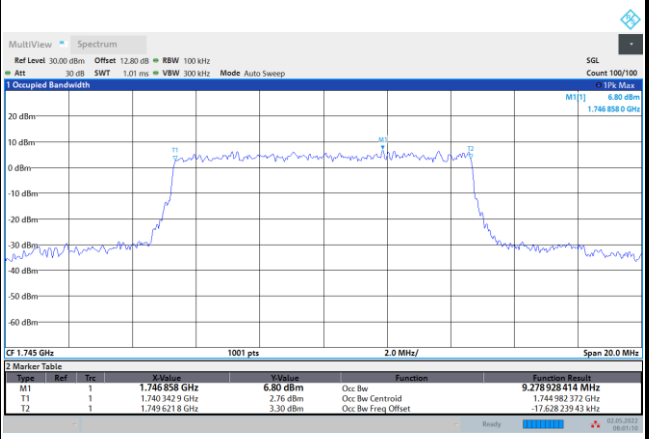
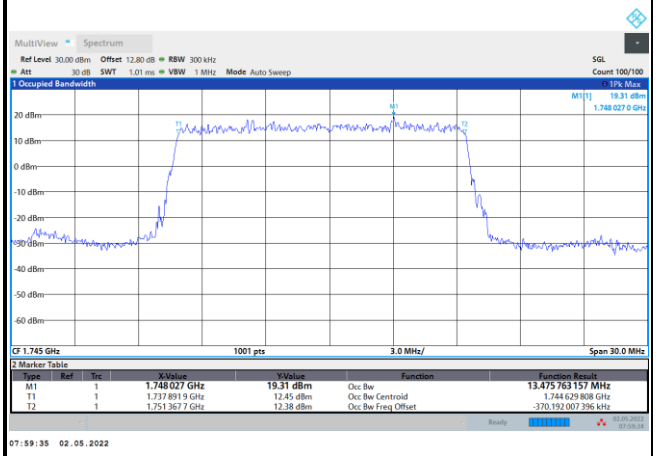


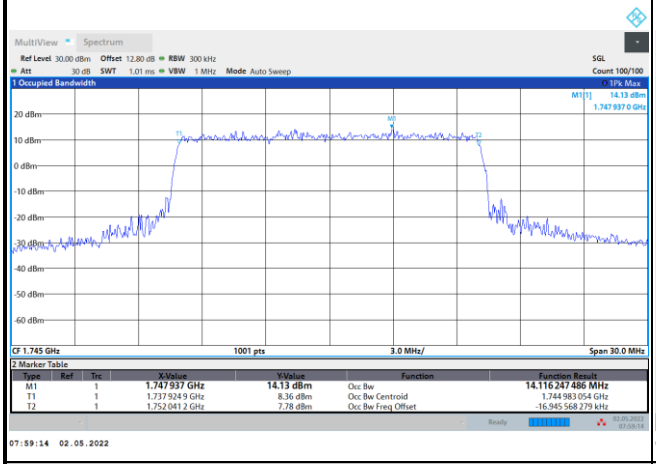
FR1 n66 / 15MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



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

QPSK



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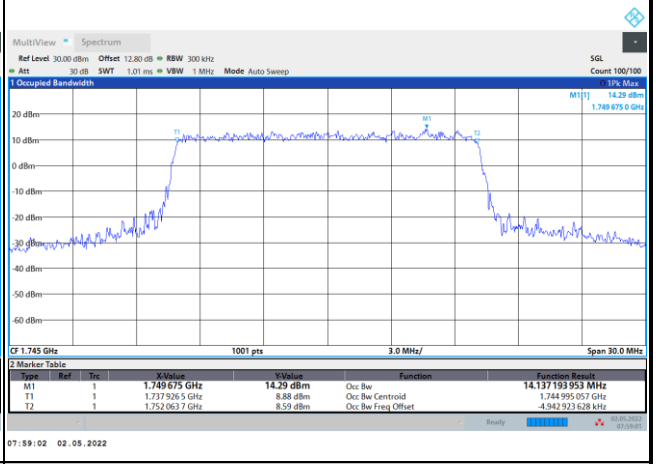

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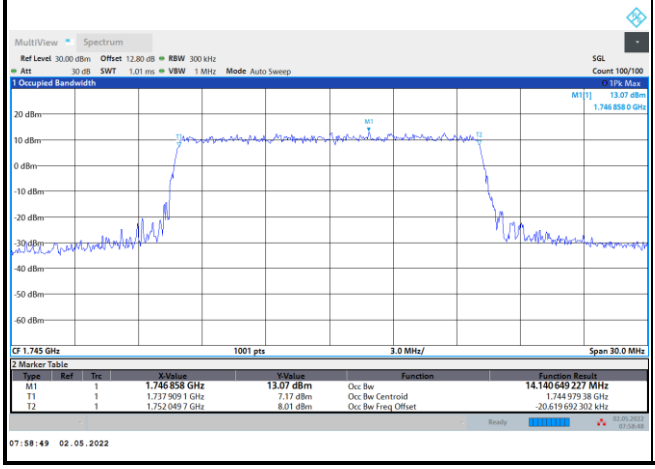

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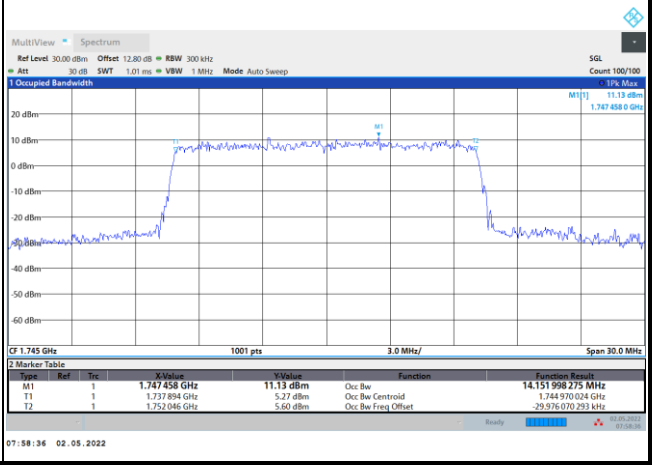
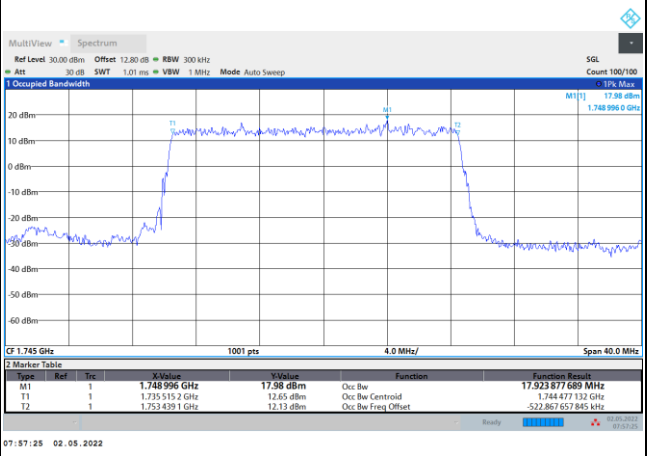


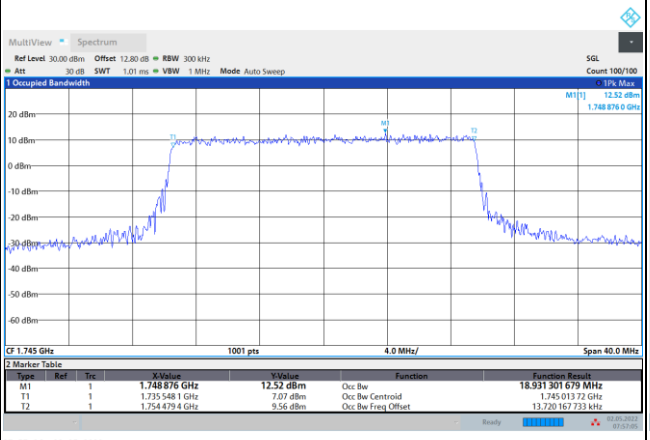
FR1 n66 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



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

QPSK



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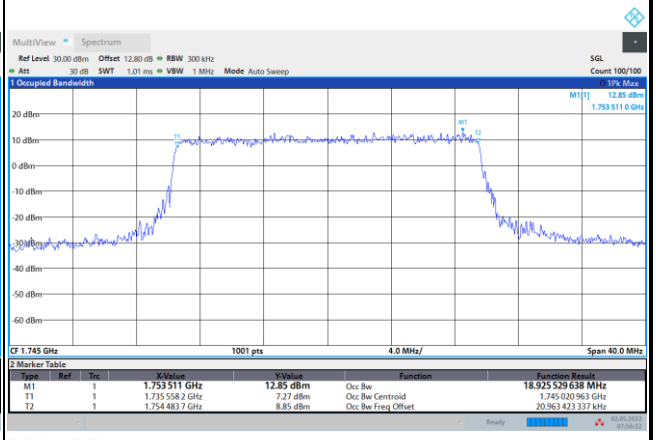

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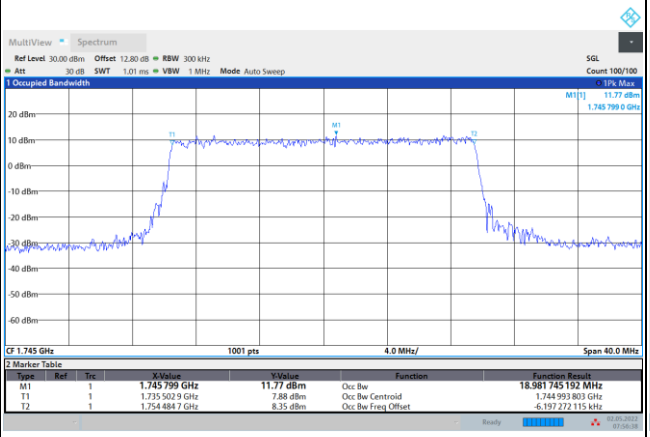

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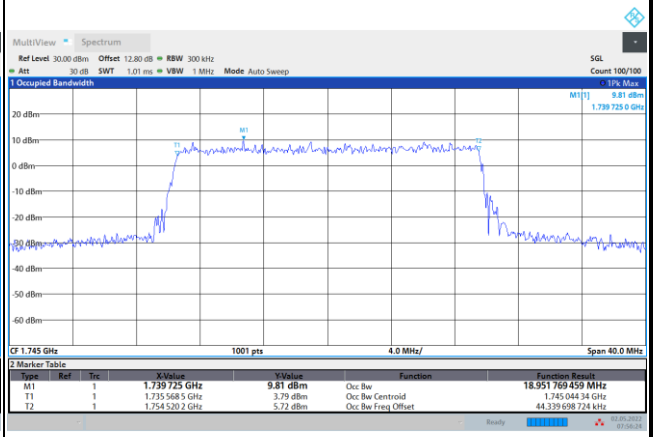
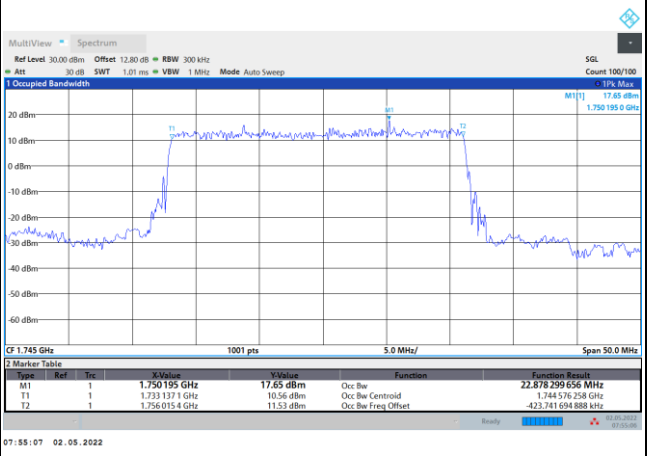


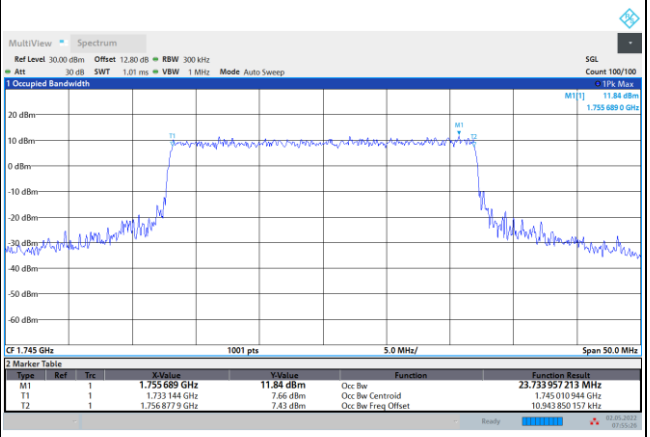
FR1 n66 / 25MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



FR1 n66 / 25MHz / CP OFDM / Middle Channel / Full RB

QPSK



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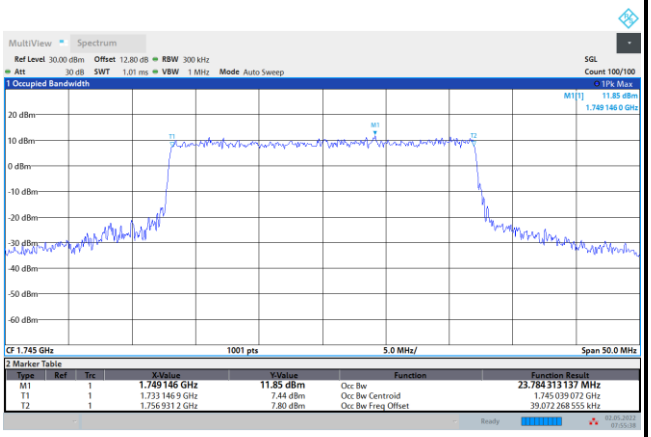

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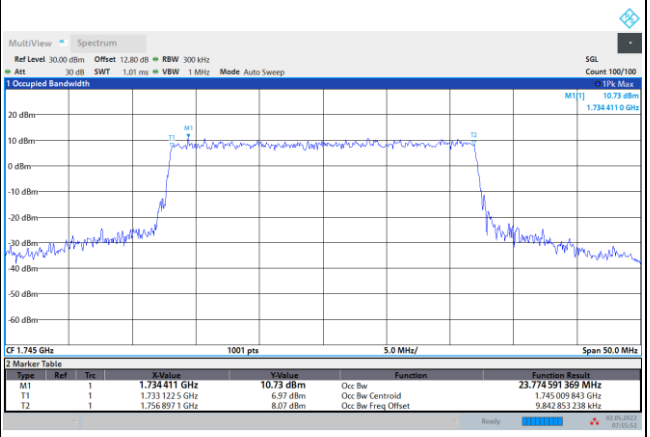

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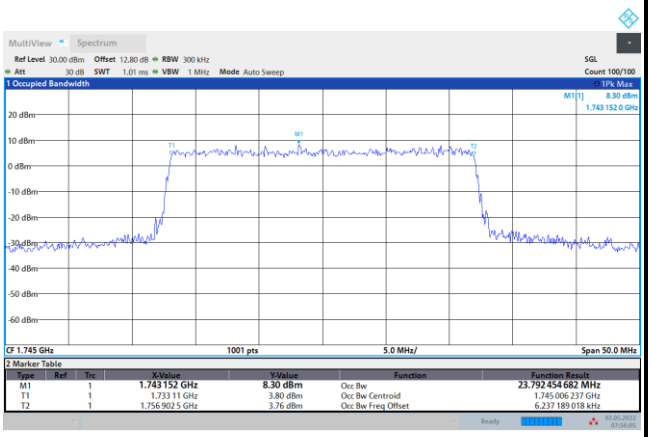
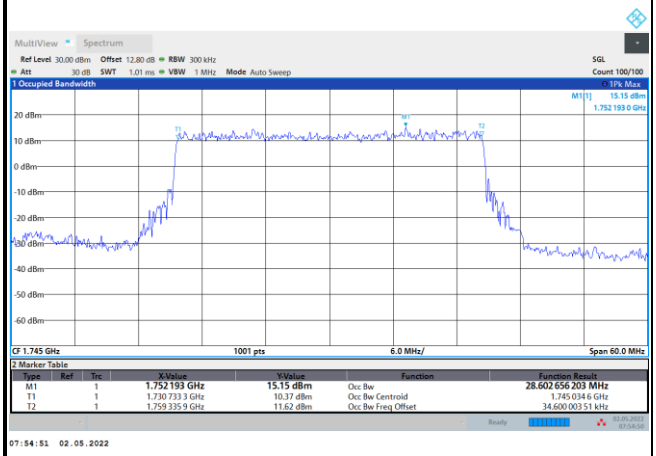


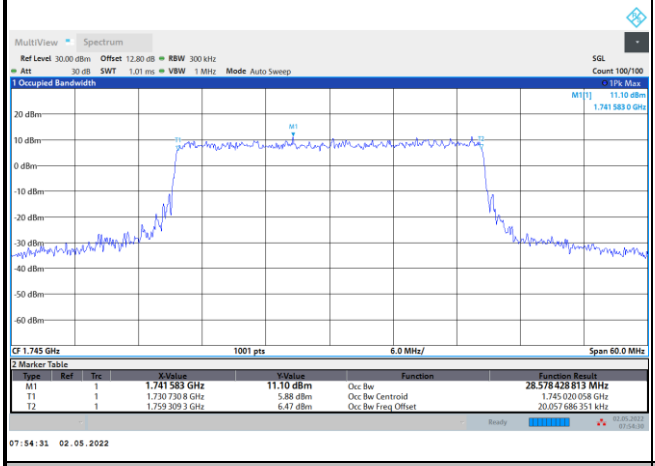
FR1 n66 / 30MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



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

QPSK



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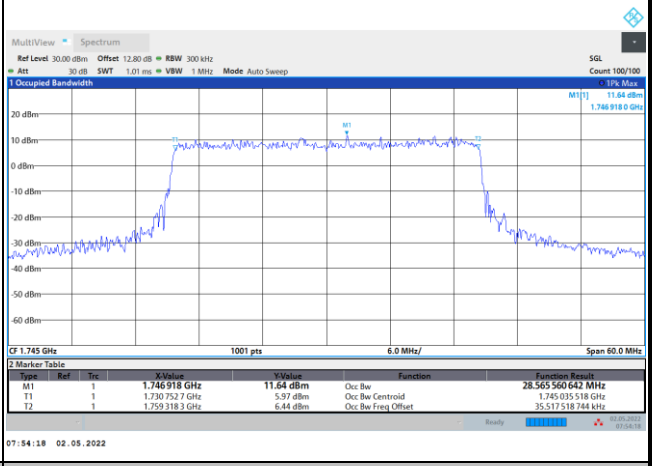

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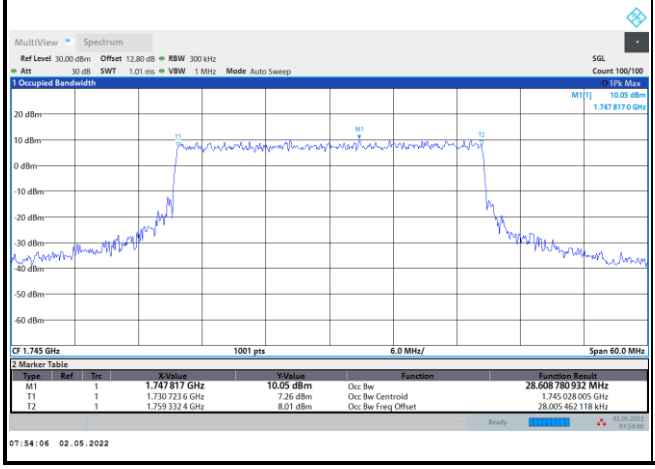

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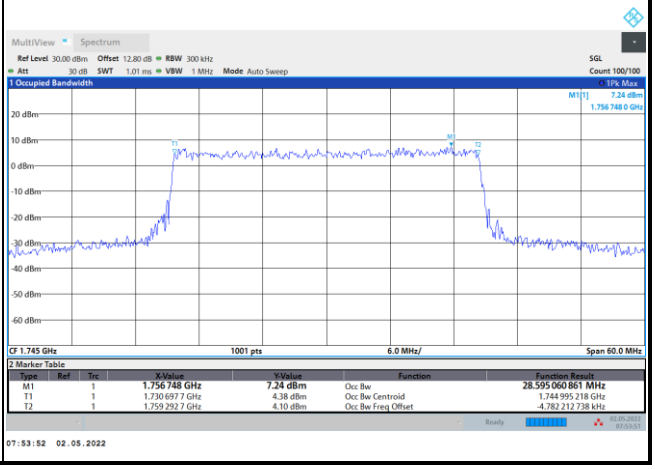
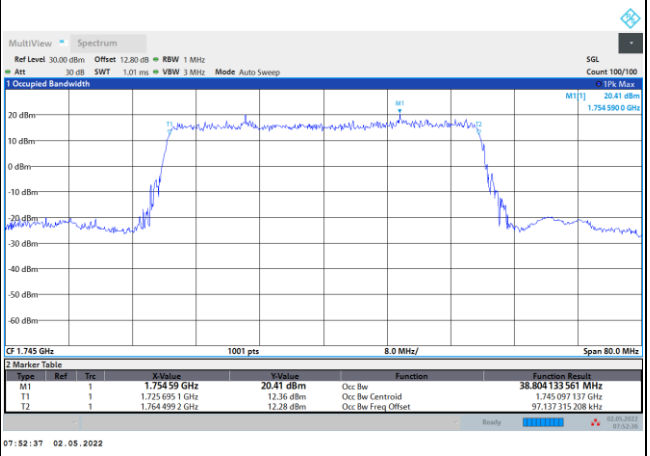


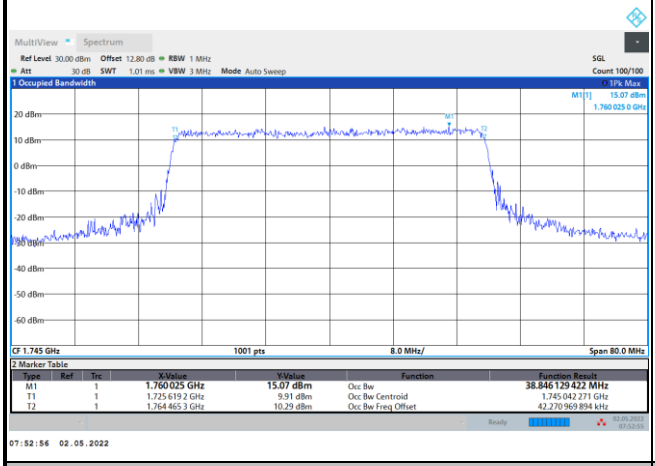
FR1 n66 / 40MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



FR1 n66 / 40MHz / CP OFDM / Middle Channel / Full RB

QPSK



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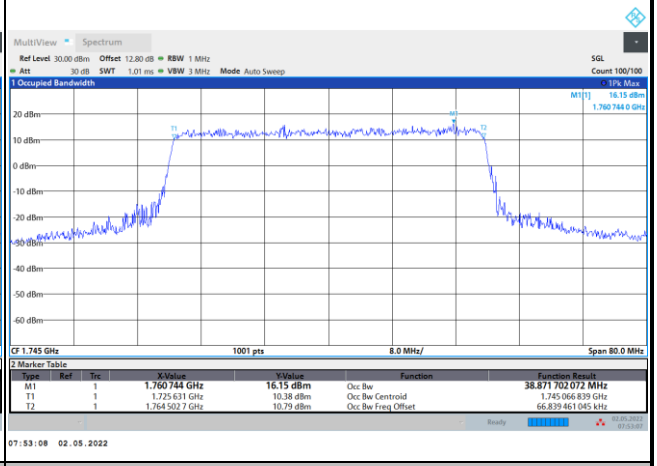

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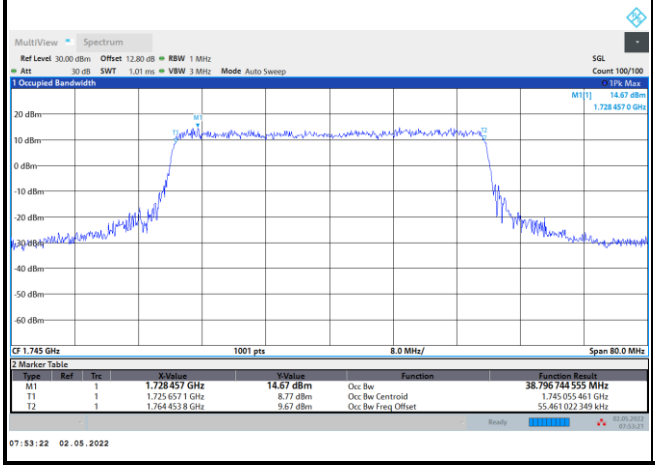

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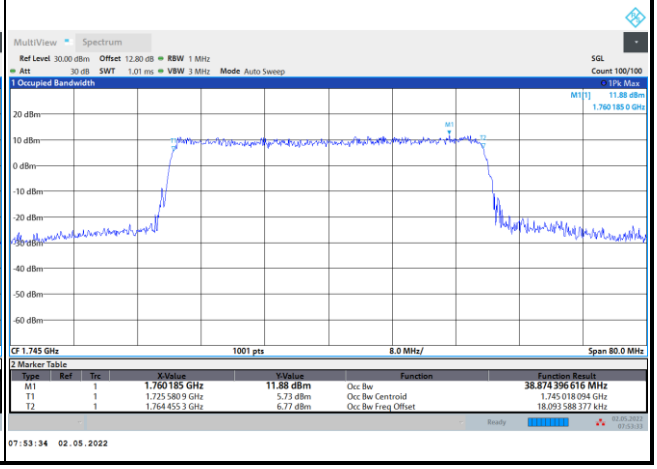
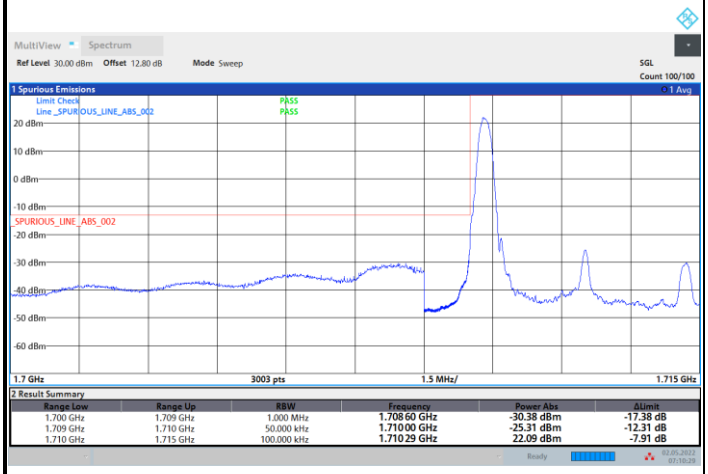


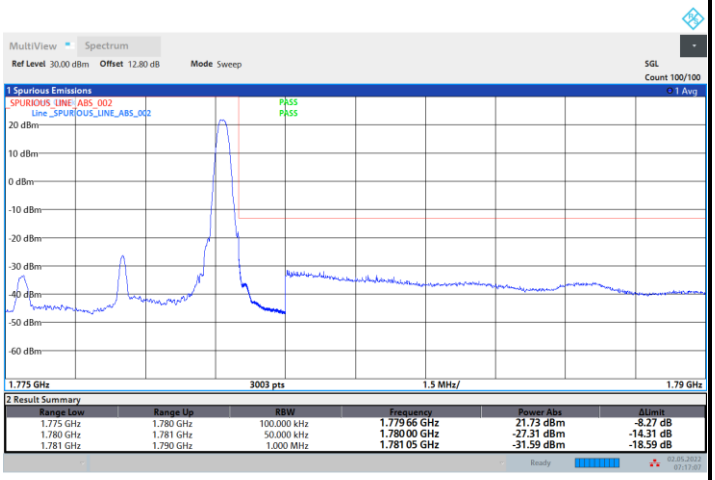
Conducted Band Edge

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

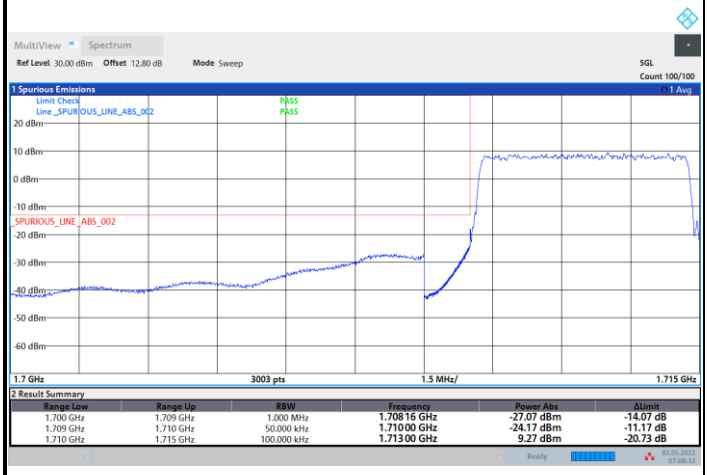
Lowest Band Edge / 1RB0



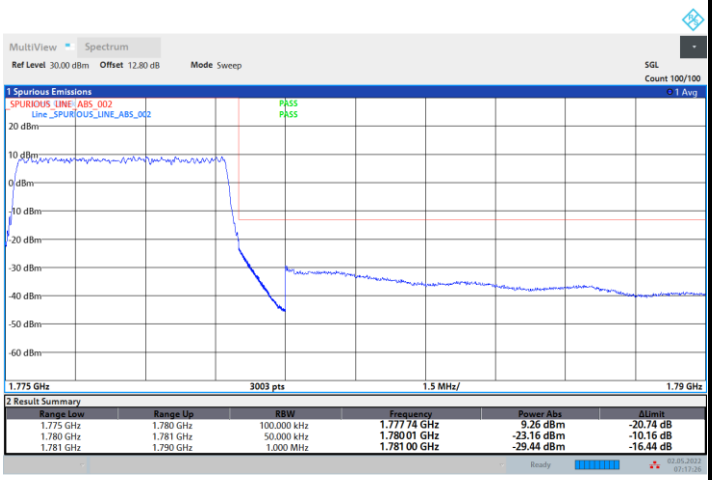
Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

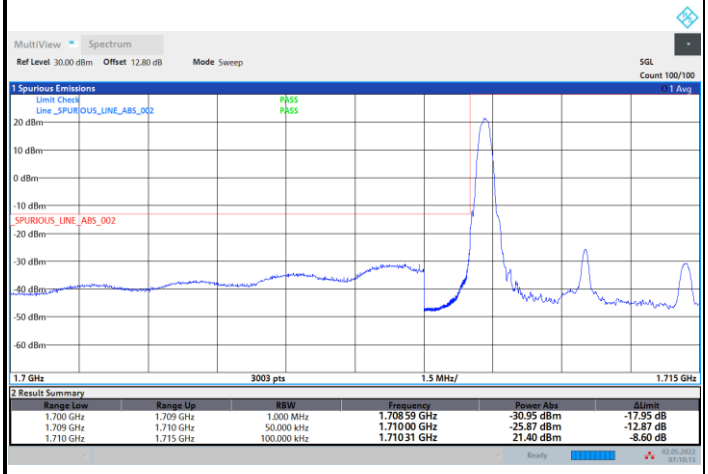


Highest Band Edge / Full RB

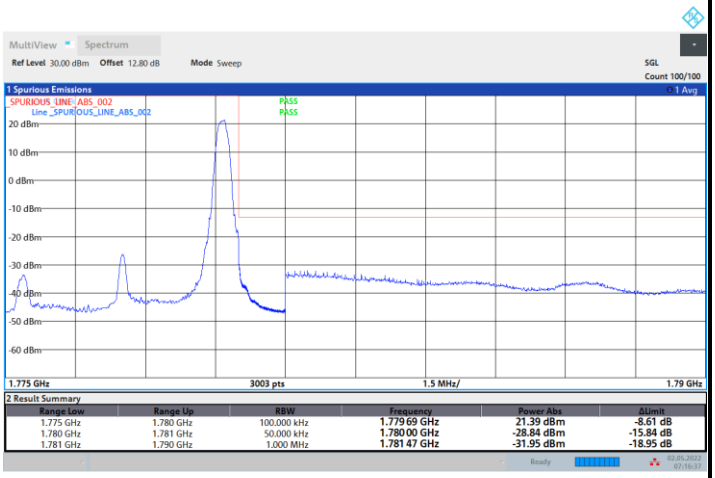


FR1 n66 / 5MHz / DFT-S OFDM / QPSK

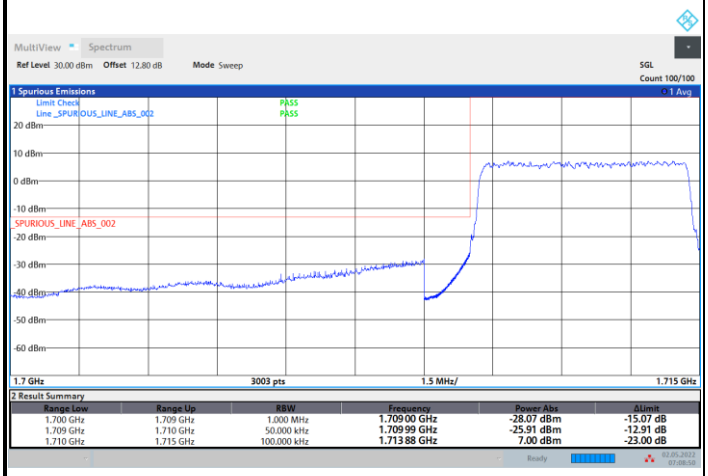
Lowest Band Edge / 1RB0



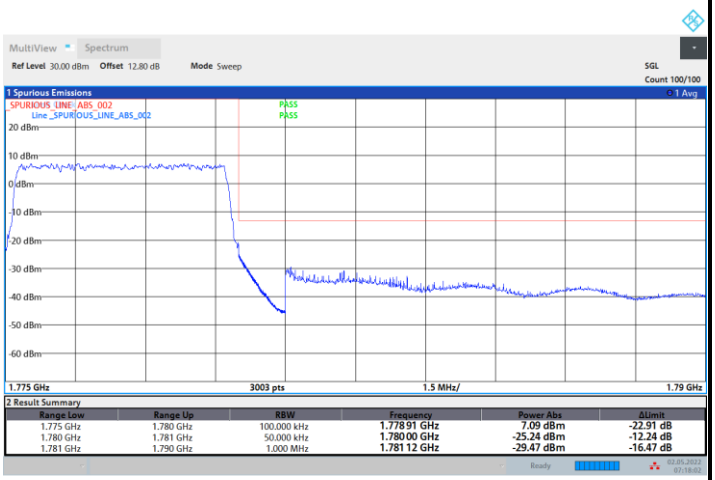
Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

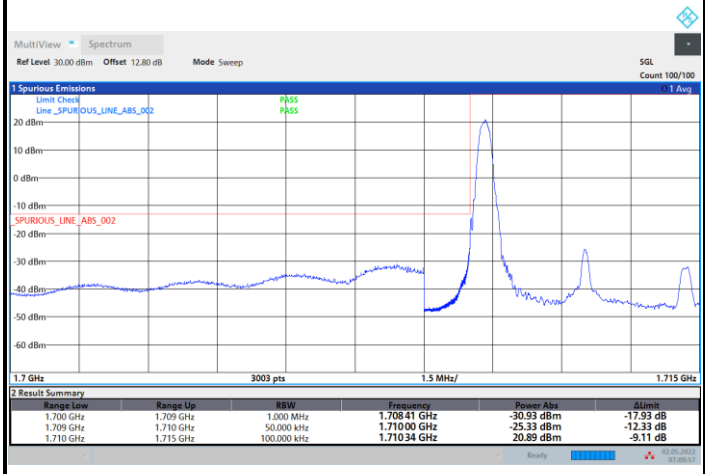


Highest Band Edge / Full RB

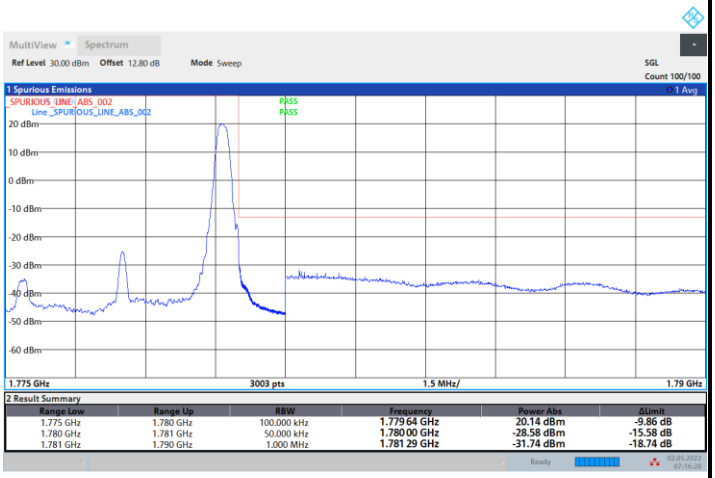


FR1 n66 / 5MHz / DFT-S OFDM / 16QAM

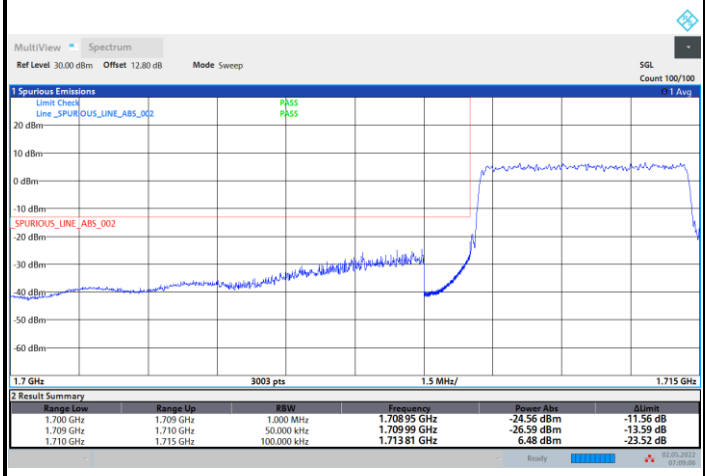
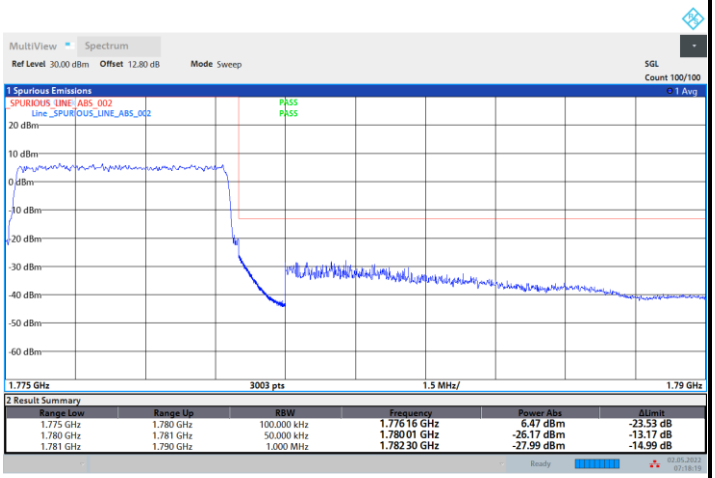
Lowest Band Edge / 1RB0



Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB



Highest Band Edge / Full RB