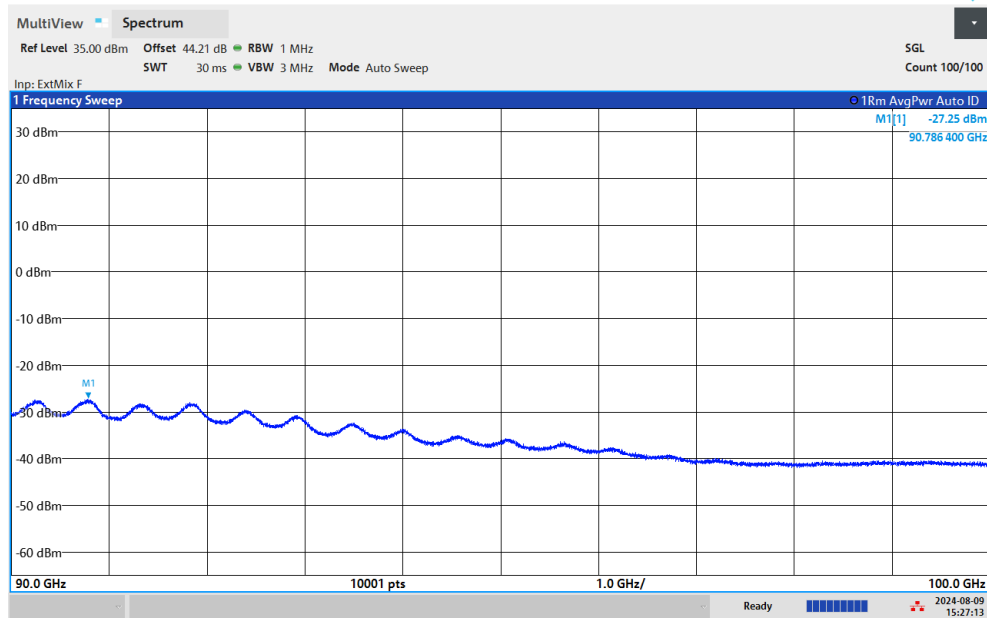


NR Band n258A
(90GHz-100GHz)


$$\begin{aligned} \text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 \\ &= 47.6 + 0.43 + 107 + 20\log(0.5) - 104.8 = 44.21 \text{ (dB)} \end{aligned}$$

Frequency Stability

Test Conditions		NR Band n258A / Middle Channel			Limit
Temperature (°C)	Voltage (Volt)	CW tone			Note 2.
		Frequency (GHz)	Deviation (kHz)	Deviation (ppm)	Result
50	Normal Voltage	24.3498811	99.900	4.103	Pass
40	Normal Voltage	24.3498631	117.900	4.842	
30	Normal Voltage	24.3498931	87.900	3.610	
20(Ref.)	Normal Voltage	24.349981	0.000	0.000	
10	Normal Voltage	24.3498781	102.900	4.226	
0	Normal Voltage	24.3498601	120.900	4.965	
-10	Normal Voltage	24.3498871	93.900	3.856	
-20	Normal Voltage	24.3499051	75.900	3.117	
-30	Normal Voltage	24.3499151	65.900	2.706	
20	Maximum Voltage	24.349964	17.000	0.698	
20	Normal Voltage	24.349975	6.000	0.246	
20	Battery End Point	24.34997	11.000	0.452	

Note:

1. Normal Voltage = 56 V. ; Battery End Point (BEP) = 47.6 V. ; Maximum Voltage = 64.4 V.
2. The frequency fundamental emissions stay within the operation band.

NR Band n258B AG0+1

Occupied Bandwidth

Mode	DFT-s-OFDM Module 1 NR Band n258B : 99%OBW(MHz)								
BW	50MHz			100MHz			200MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	44.74	44.84	44.88	91.90	92.00	92.01	192.03	191.69	191.93
Middle CH	46.07	46.17	45.98	91.72	91.91	91.82	189.65	188.87	189.04
Highest CH	46.23	46.29	46.27	91.84	91.78	91.72	192.36	192.19	192.12

Mode	DFT-s-OFDM Module 1 NR Band n258B : 99%OBW(MHz)					
BW	300MHz			400MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	290.88	290.30	290.63	391.25	390.49	390.56
Middle CH	288.29	288.39	288.49	390.14	390.47	389.40
Highest CH	289.67	289.53	289.95	390.29	389.60	389.61

Mode	CP-OFDM Module 1 NR Band n258B : 99%OBW(MHz)		
BW	50MHz	100MHz	200MHz
Mod.	QPSK	QPSK	QPSK
Lowest CH	45.18	93.50	193.31
Middle CH	46.16	93.11	193.05
Highest CH	46.44	93.83	193.14

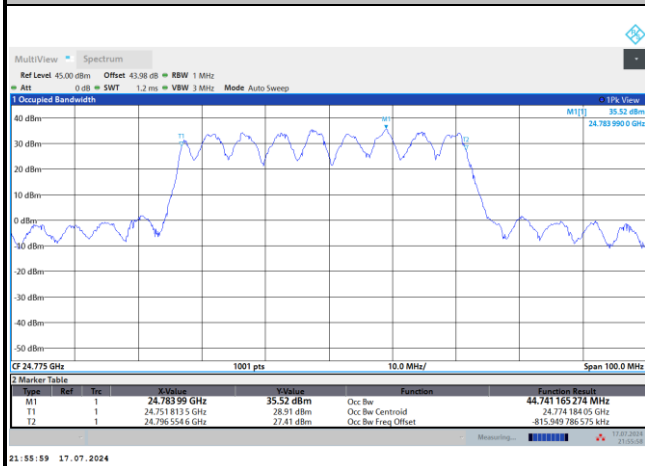
Mode	CP-OFDM Module 1 NR Band n258B : 99%OBW(MHz)	
BW	300MHz	400MHz
Mod.	QPSK	QPSK
Lowest CH	294.06	393.20
Middle CH	293.01	394.16
Highest CH	291.99	391.78



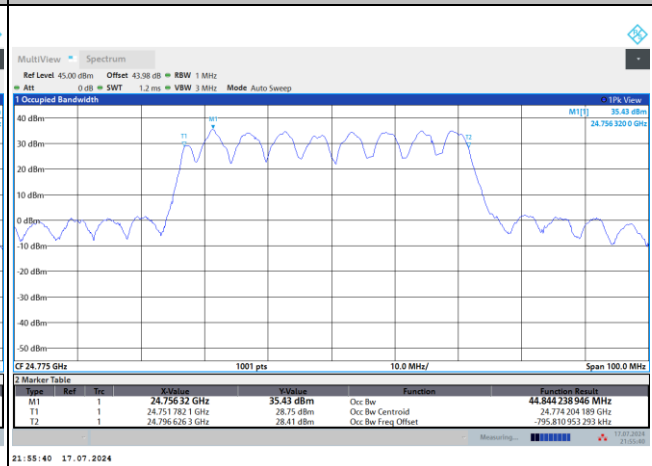
DFT-s-OFDM Module 1

NR Band n258B

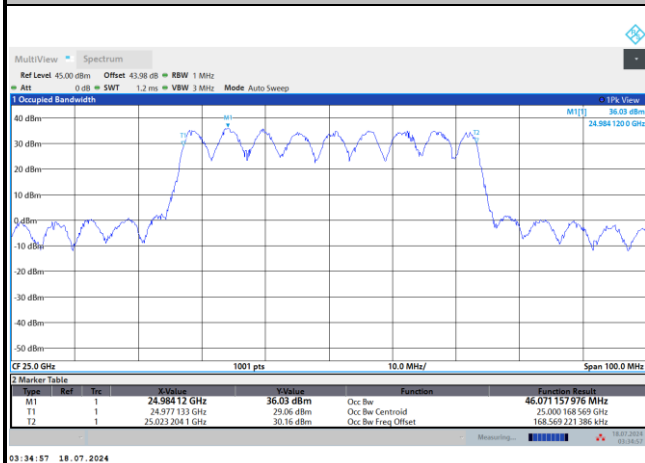
Lowest Channel / 50MHz / QPSK



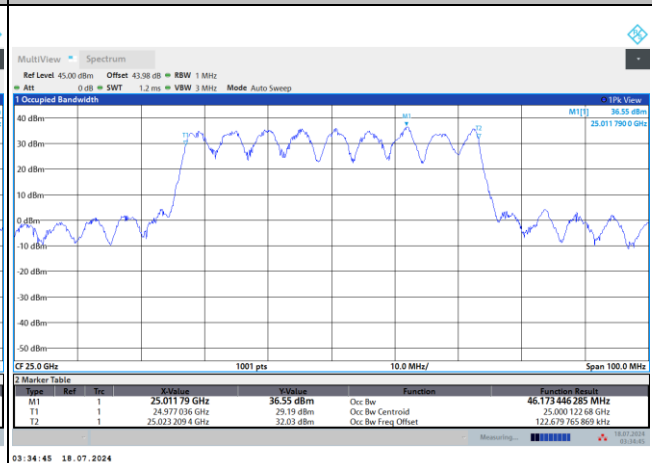
Lowest Channel / 50MHz / 16QAM



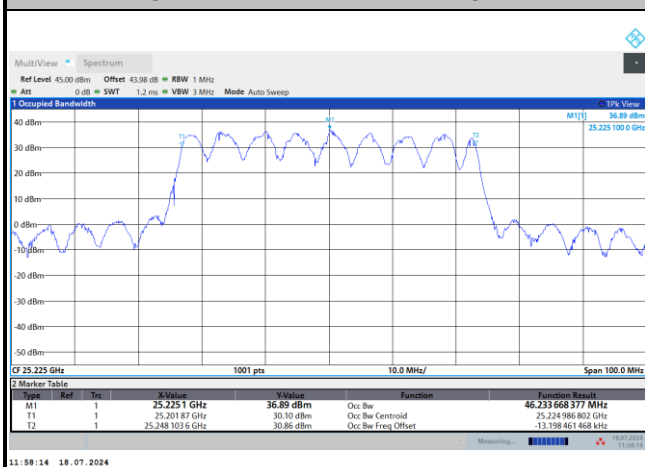
Middle Channel / 50MHz / QPSK



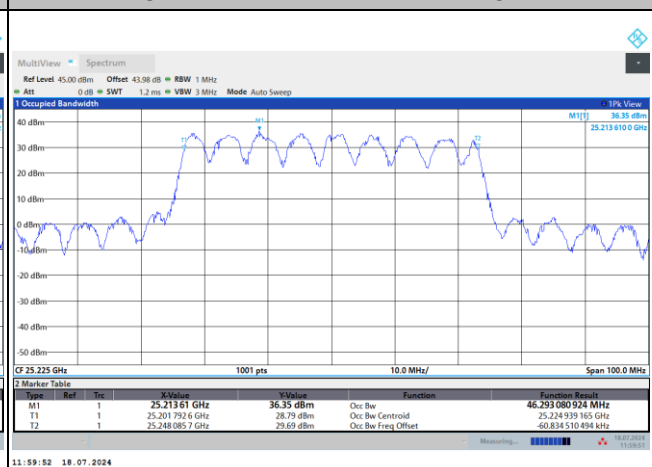
Middle Channel / 50MHz / 16QAM



Highest Channel / 50MHz / QPSK



Highest Channel / 50MHz / 16QAM

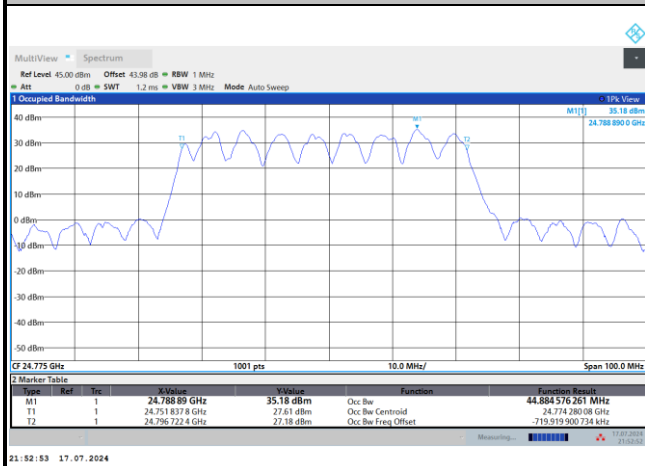




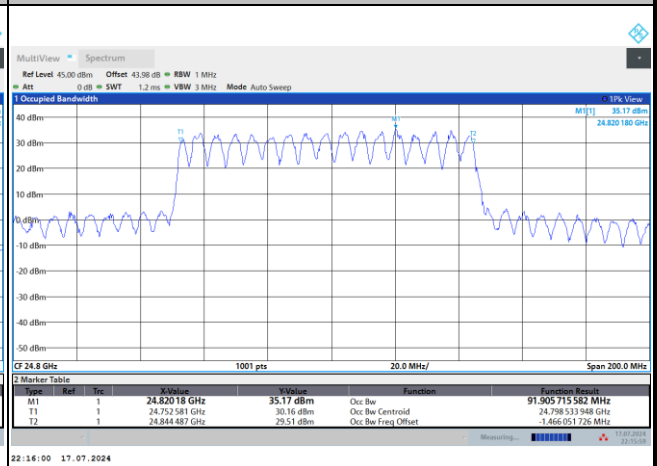
DFT-s-OFDM Module 1

NR Band n258B

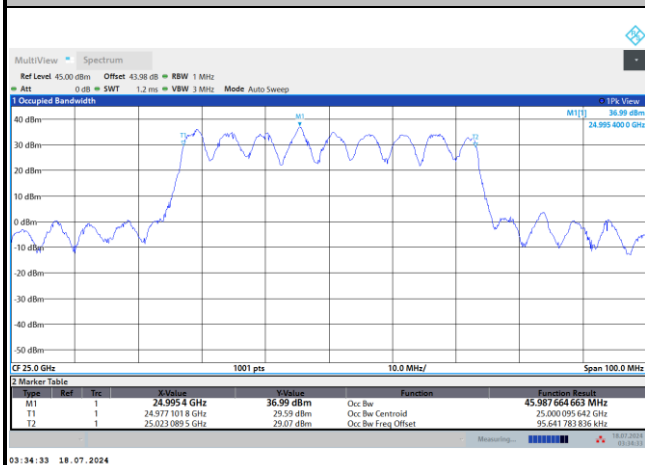
Lowest Channel / 50MHz / 64QAM



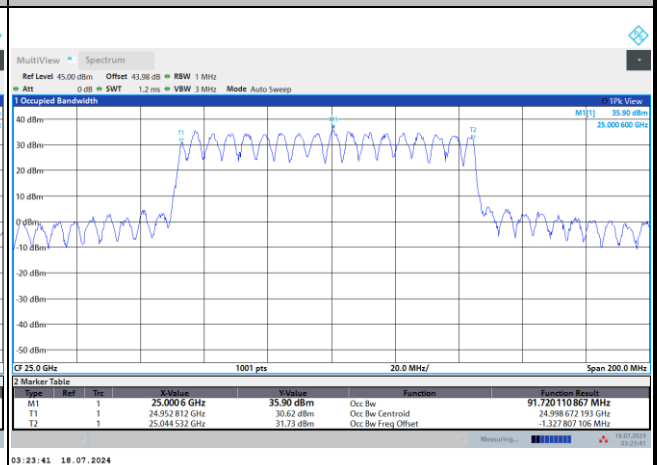
Lowest Channel / 100MHz / QPSK



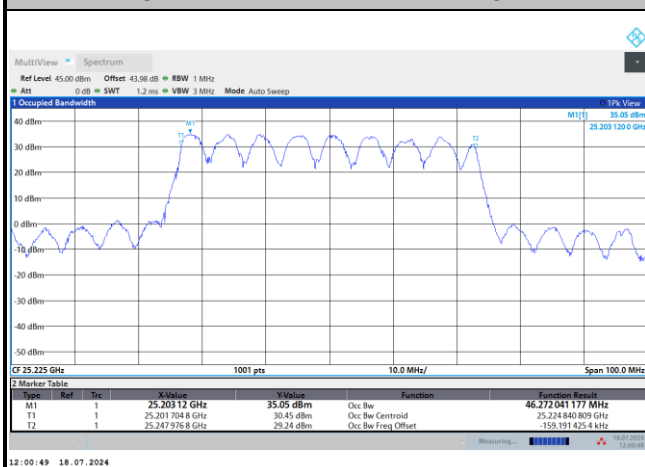
Middle Channel / 50MHz / 64QAM



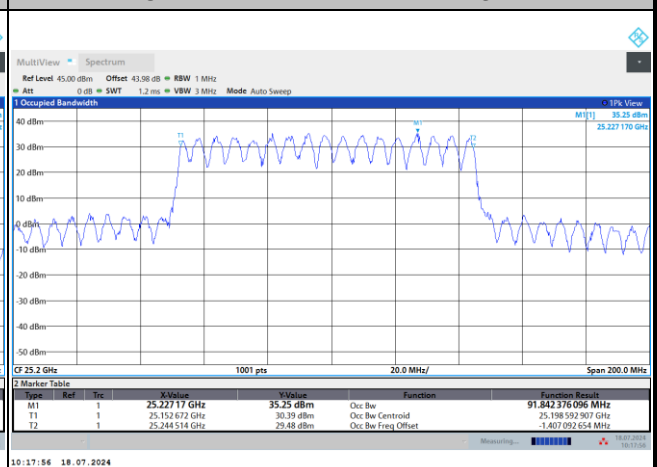
Middle Channel / 100MHz / QPSK



Highest Channel / 50MHz / 64QAM



Highest Channel / 100MHz / QPSK

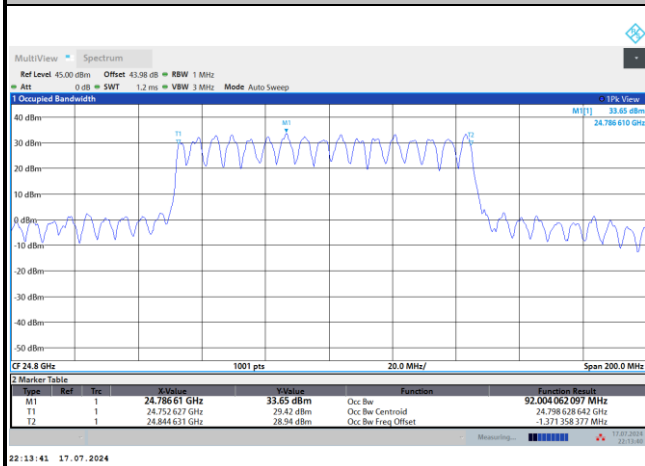




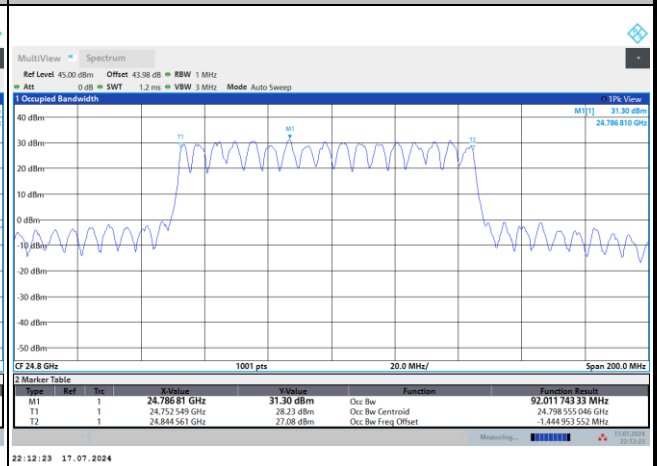
DFT-s-OFDM Module 1

NR Band n258B

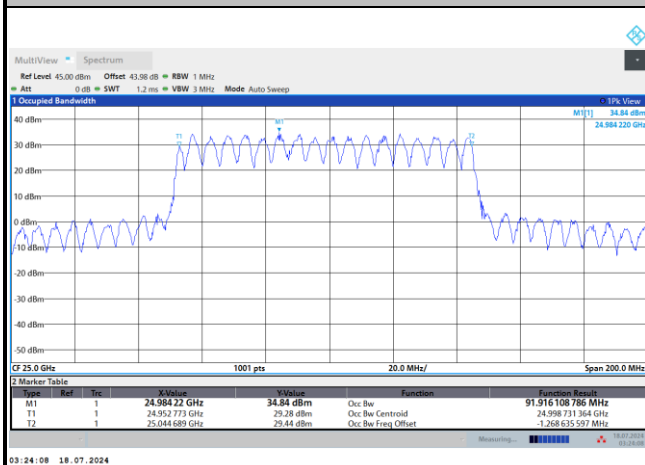
Lowest Channel / 100MHz / 16QAM



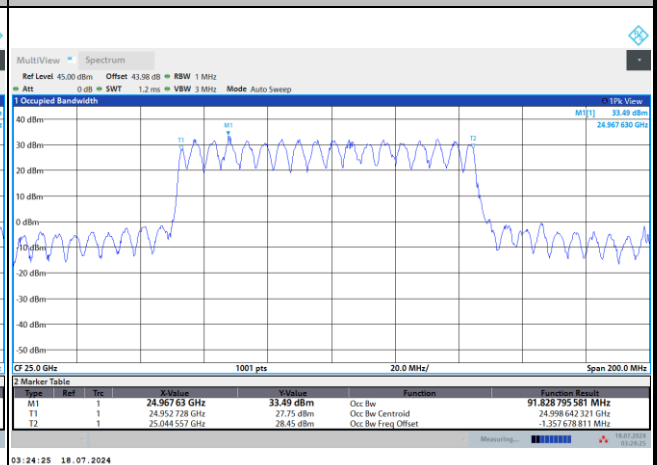
Lowest Channel / 100MHz / 64QAM



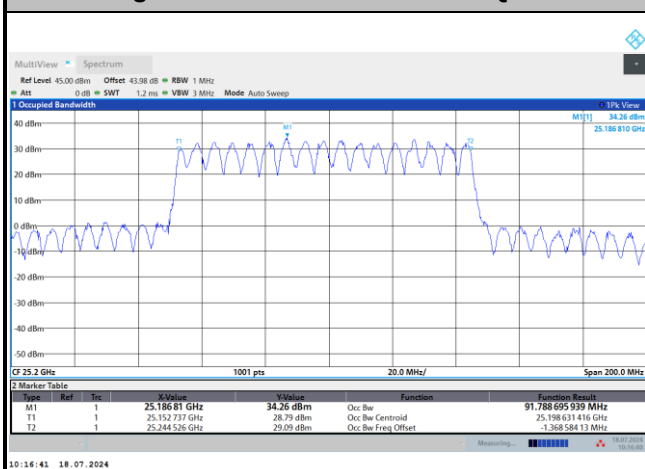
Middle Channel / 100MHz / 16QAM



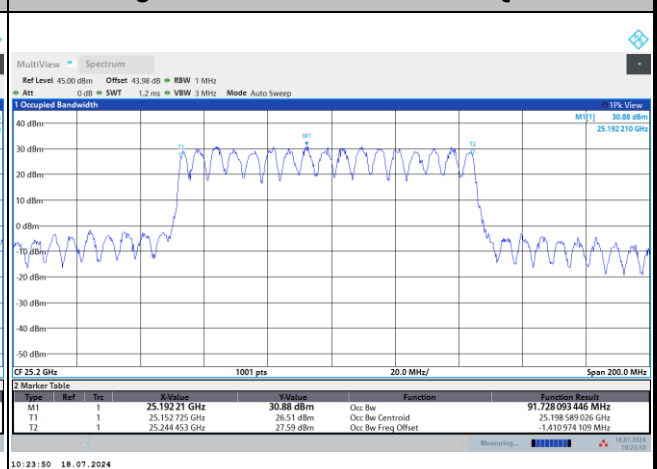
Middle Channel / 100MHz / 64QAM



Highest Channel / 100MHz / 16QAM



Highest Channel / 100MHz / 64QAM

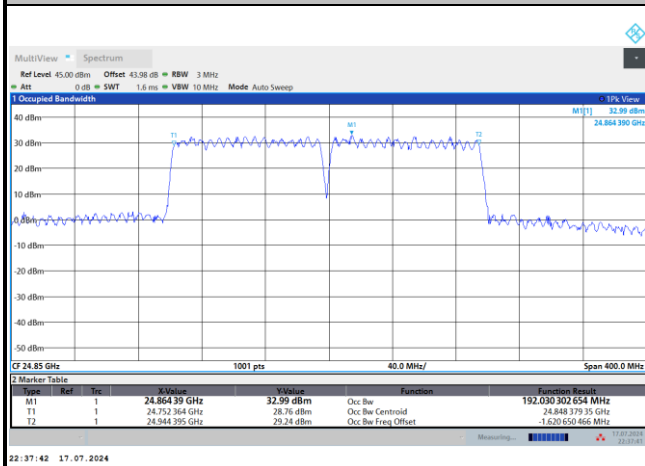




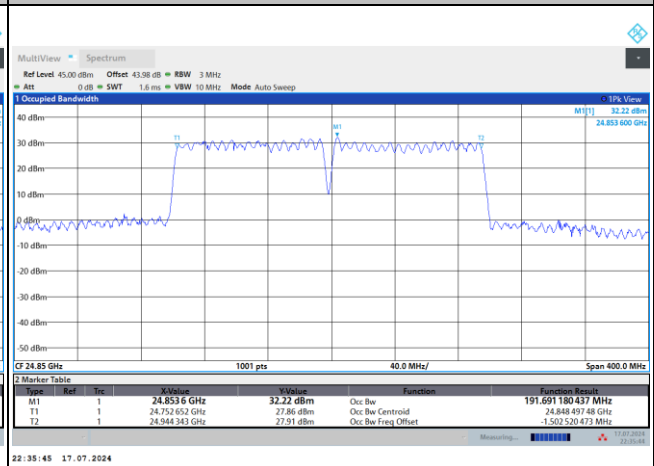
DFT-s-OFDM Module 1

NR Band n258B

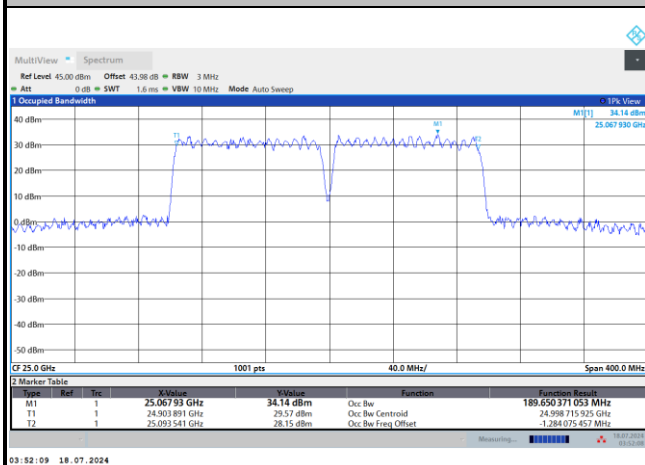
Lowest Channel / 200MHz / QPSK



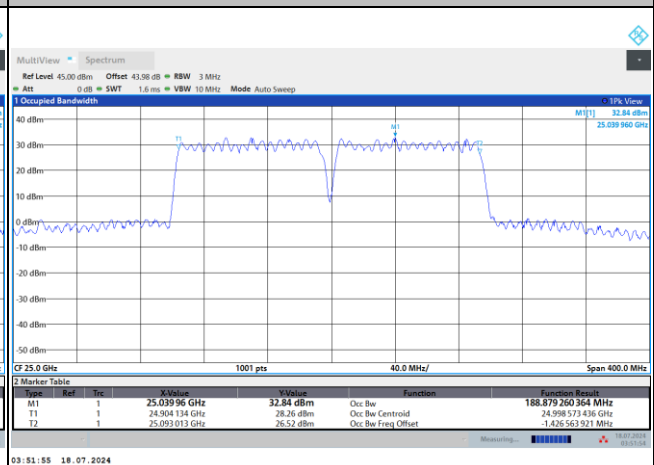
Lowest Channel / 200MHz / 16QAM



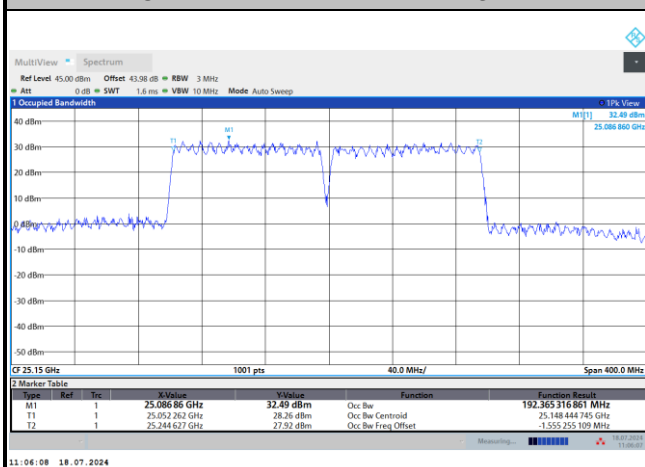
Middle Channel / 200MHz / QPSK



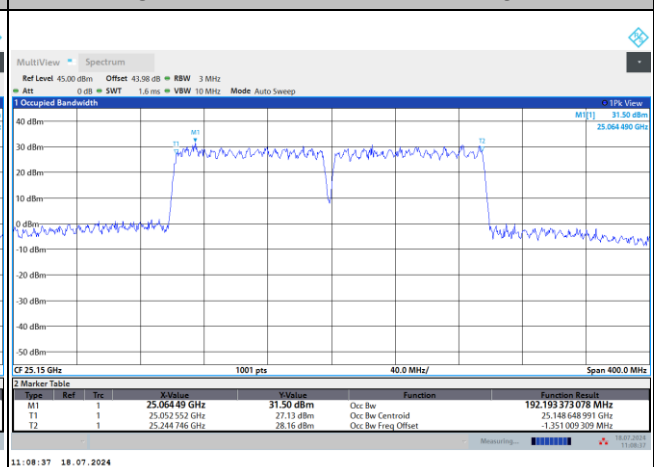
Middle Channel / 200MHz / 16QAM



Highest Channel / 200MHz / QPSK



Highest Channel / 200MHz / 16QAM

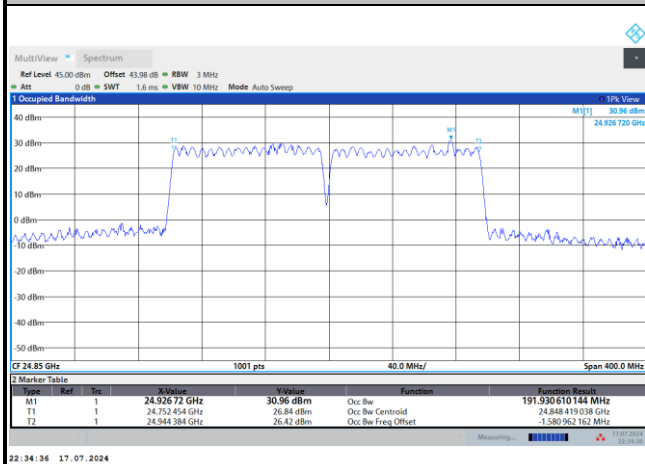




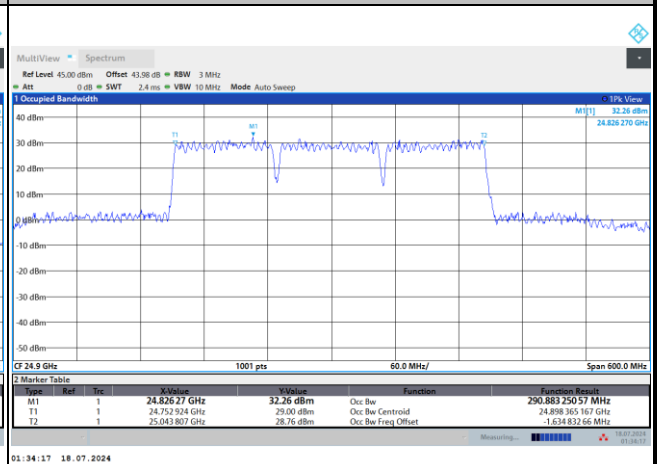
DFT-s-OFDM Module 1

NR Band n258B

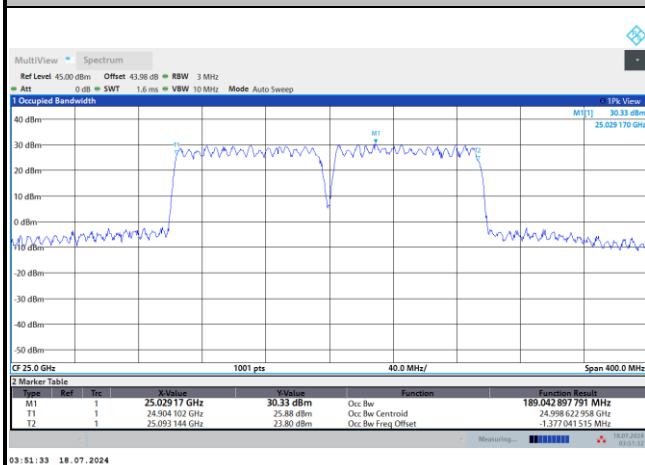
Lowest Channel / 200MHz / 64QAM



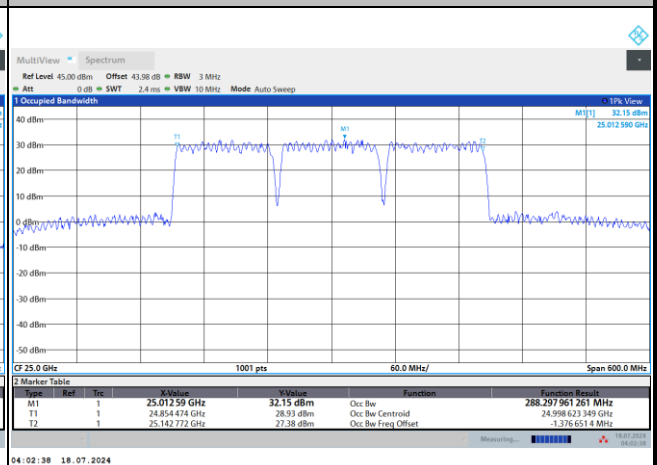
Lowest Channel / 300MHz / QPSK



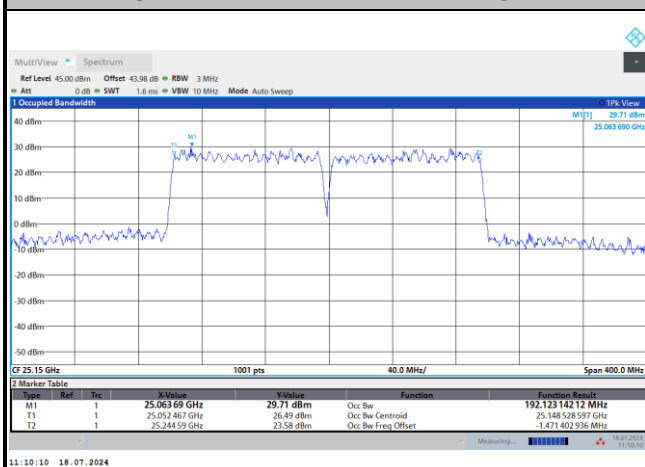
Middle Channel / 200MHz / 64QAM



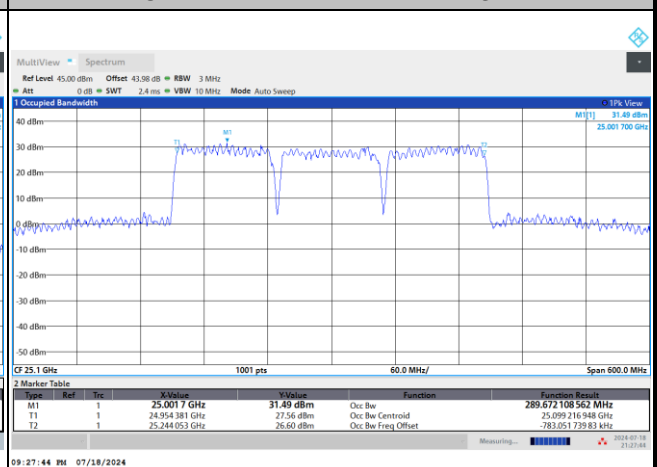
Middle Channel / 300MHz / QPSK



Highest Channel / 200MHz / 64QAM

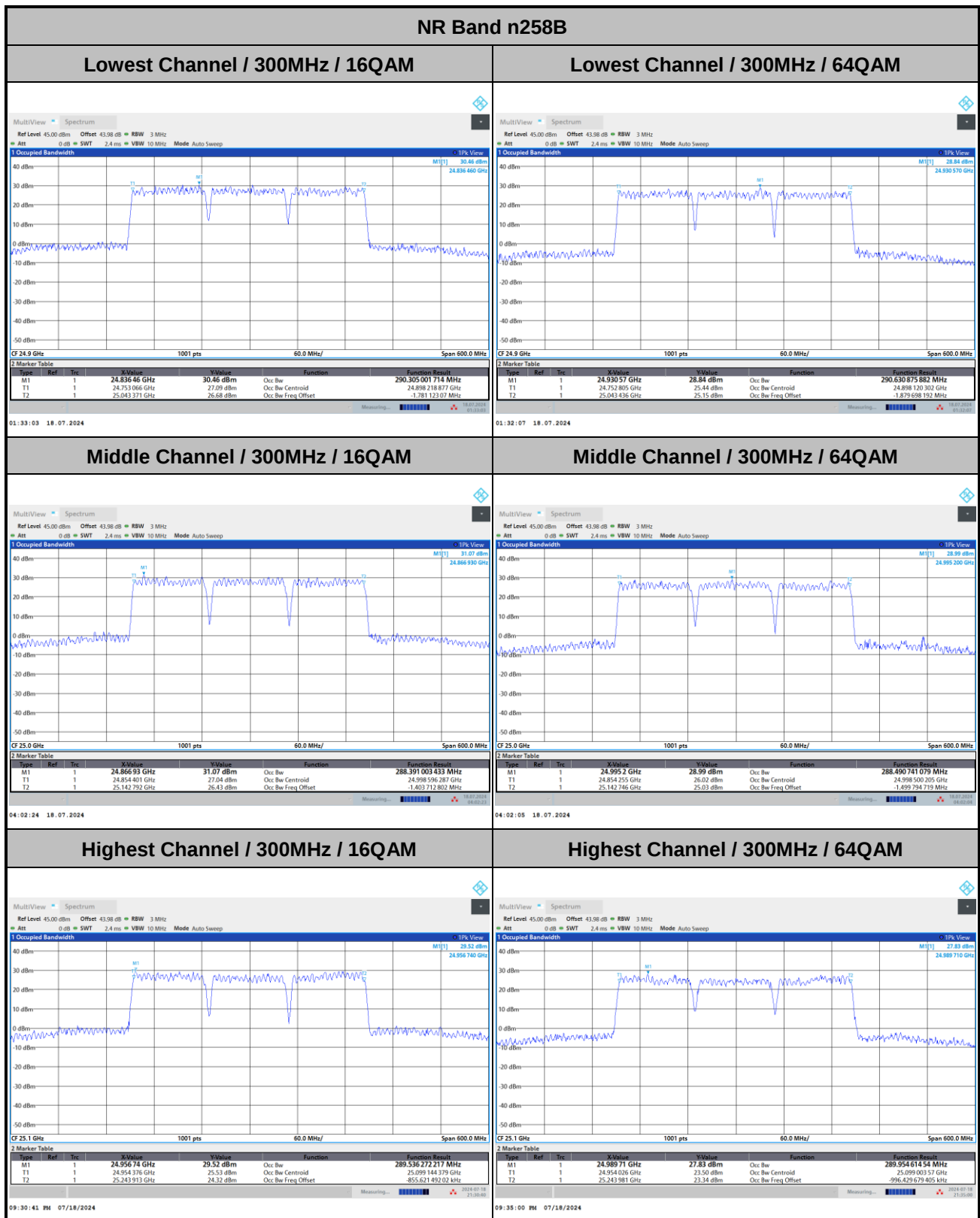


Highest Channel / 300MHz / QPSK



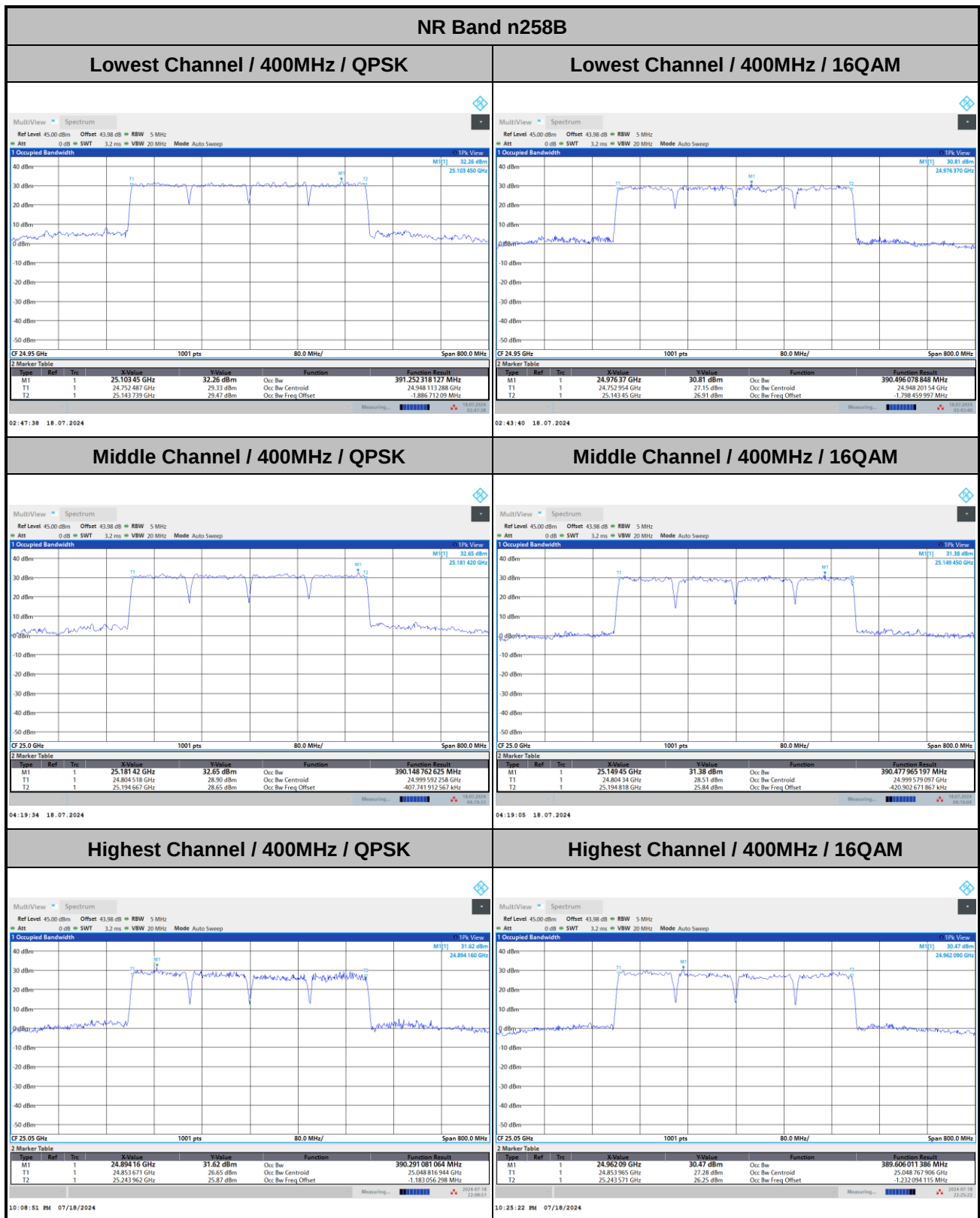


DFT-s-OFDM Module 1





DFT-s-OFDM Module 1

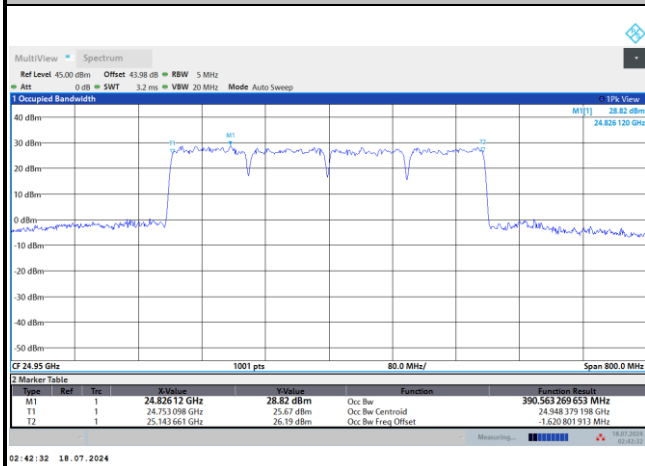




DFT-s-OFDM Module 1

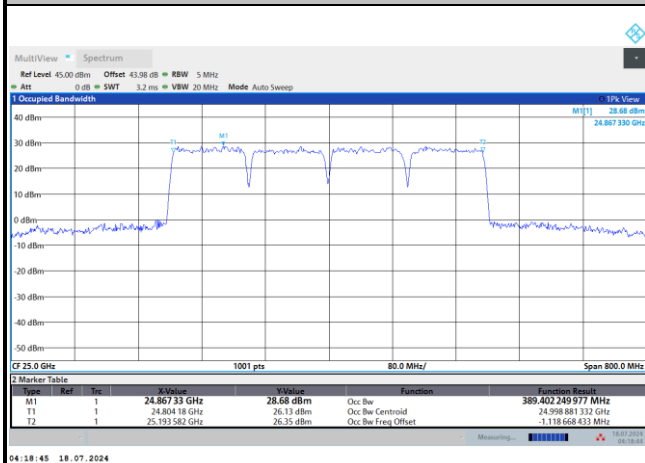
NR Band n258B

Lowest Channel / 400MHz / 64QAM



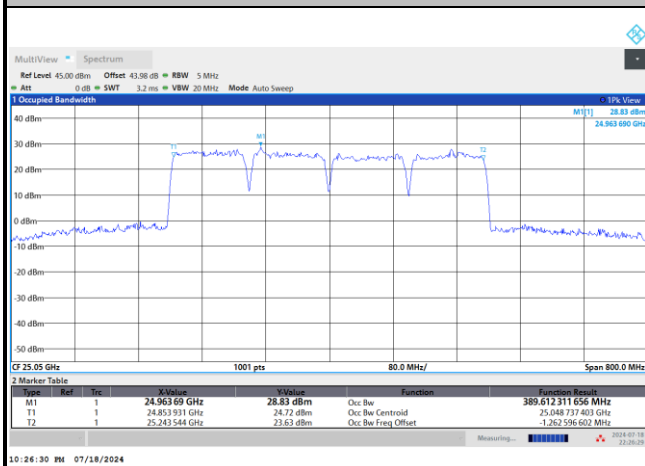
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Middle Channel / 400MHz / 64QAM



intentionally blank

Highest Channel / 400MHz / 64QAM



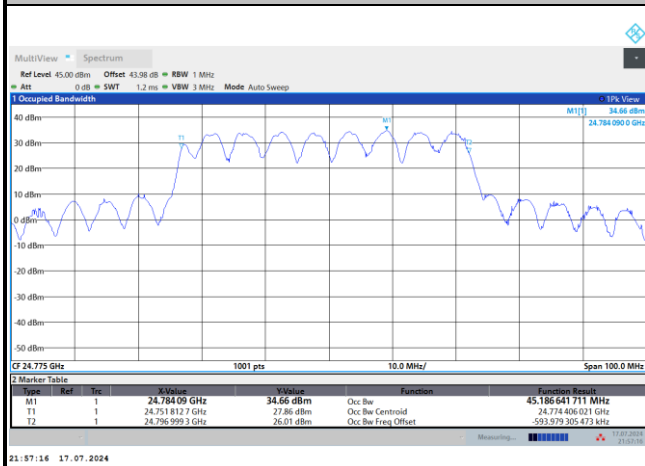
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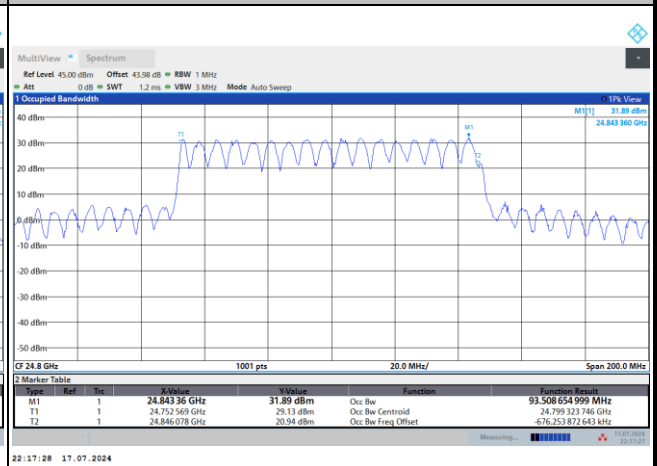
CP-OFDM Module 1

NR Band n258B

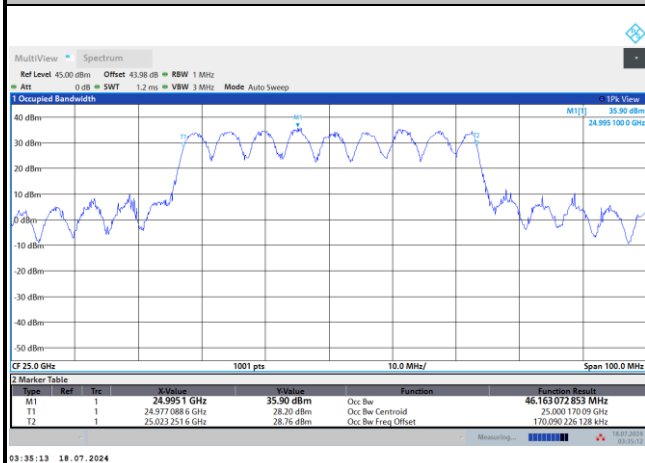
Lowest Channel / 50MHz / QPSK



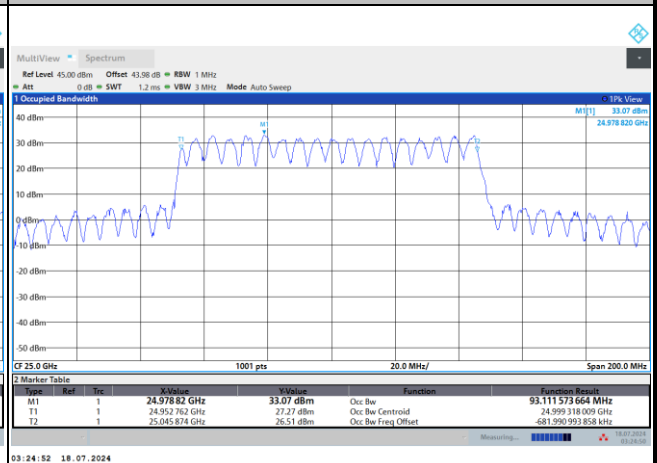
Lowest Channel / 100MHz / QPSK



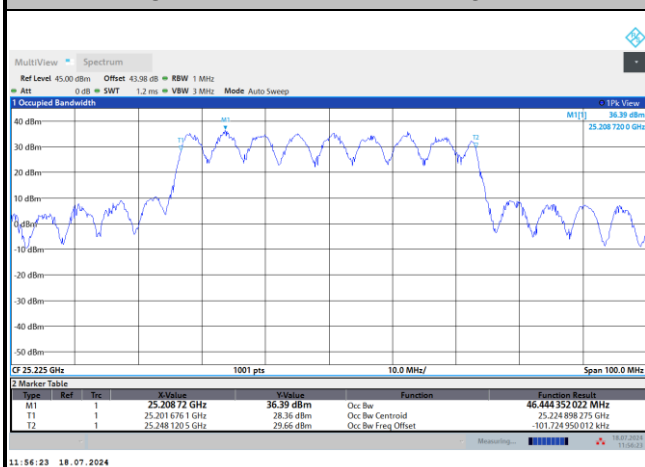
Middle Channel / 50MHz / QPSK



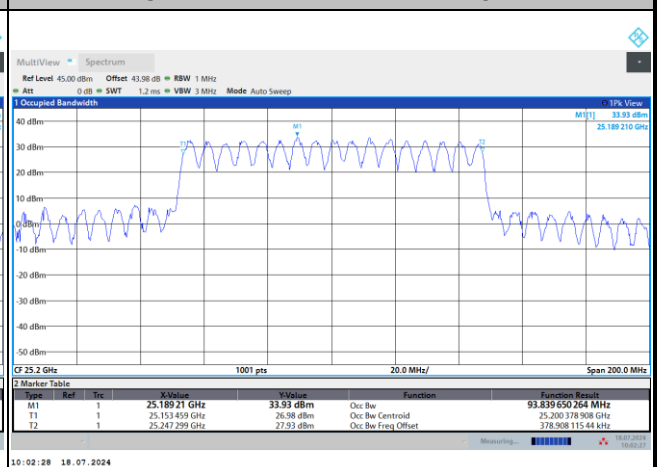
Middle Channel / 100MHz / QPSK



Highest Channel / 50MHz / QPSK

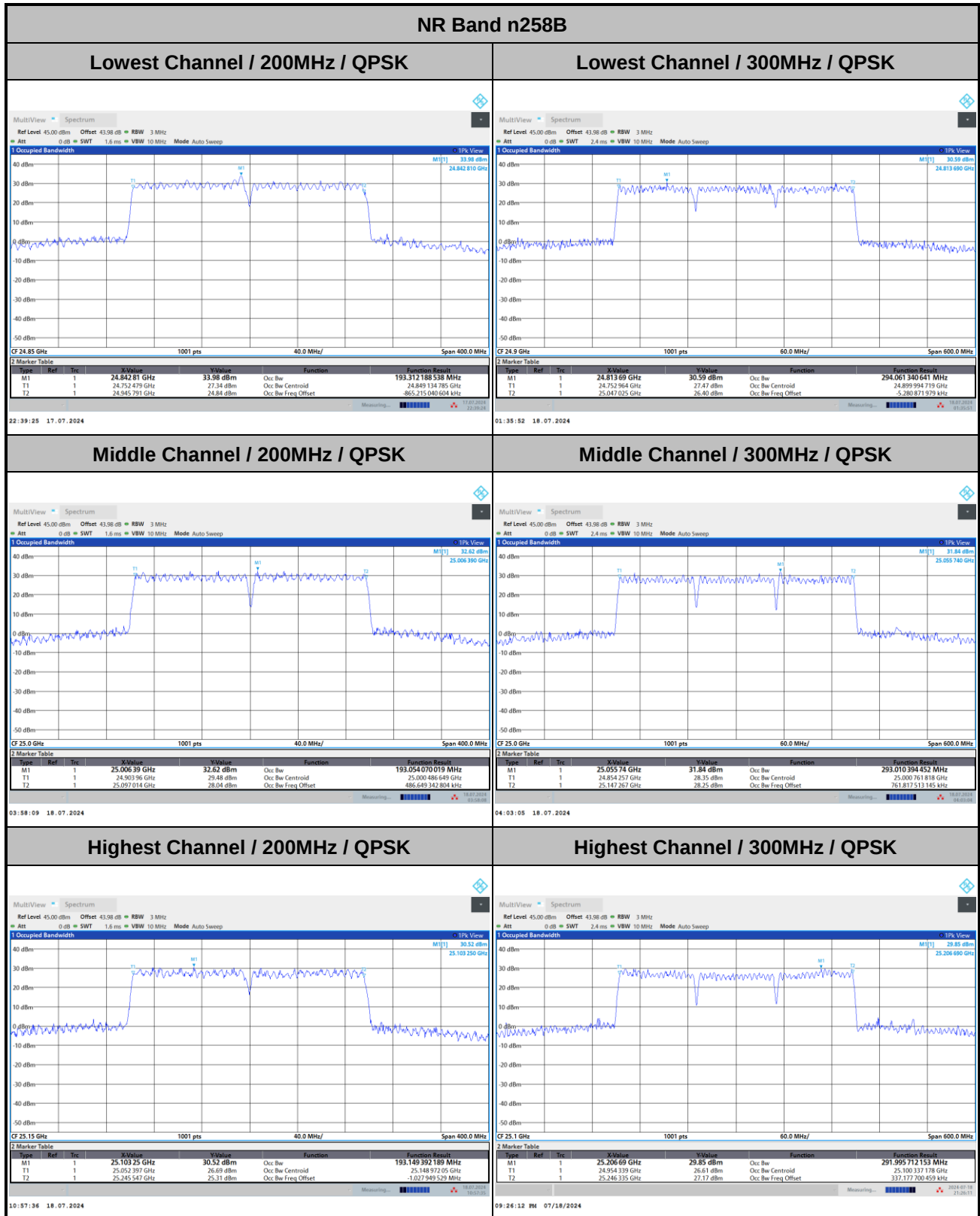


Highest Channel / 100MHz / QPSK





CP-OFDM Module 1

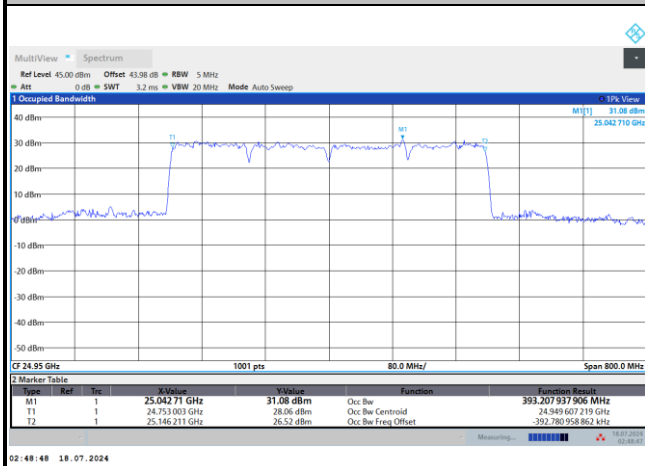




CP-OFDM Module 1

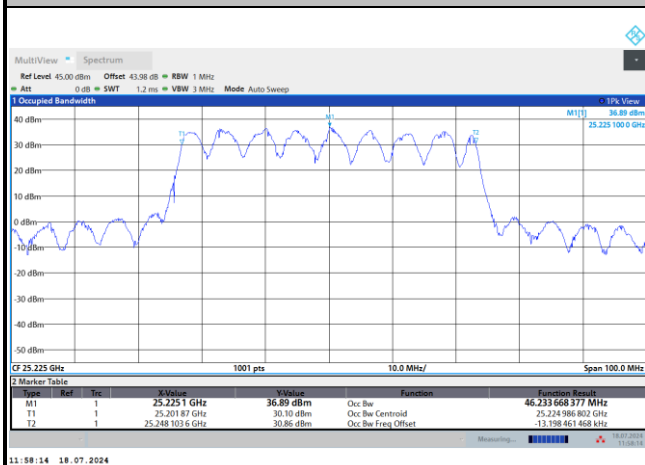
NR Band n258B

Lowest Channel / 400MHz / QPSK



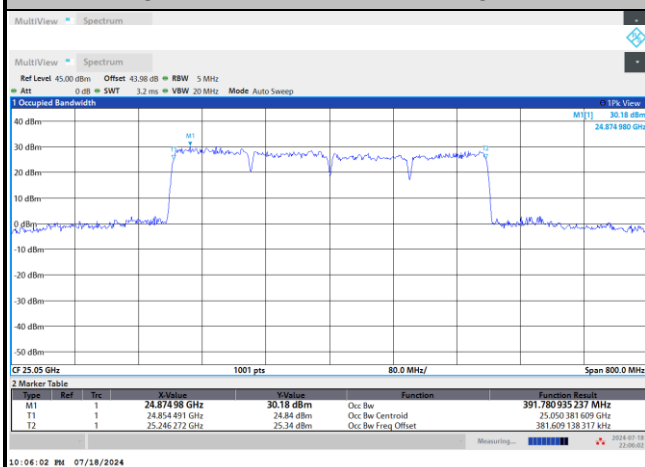
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Middle Channel / 400MHz / QPSK



intentionally blank

Highest Channel / 400MHz / QPSK



intentionally blank

Radiated Out of Band Emissions

Mode			DFT-s-OFDM Module 1 NR Band n258B : BE (dBm) 1 RB								
BW			50MHz			100MHz			200MHz		
Limit (dBm)			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Low CH	0~10%OB	≤-5	-12.378	-12.350	-12.695	-13.593	-14.930	-13.203	-19.506	-20.676	-18.686
	>10%OB	≤-13	-31.781	-31.754	-31.614	-34.702	-34.616	-34.374	-22.768	-21.004	-20.175
High CH	0~10%OB	≤-5	-12.712	-10.997	-12.757	-14.139	-14.290	-10.843	-21.237	-19.119	-20.536
	>10%OB	≤-13	-30.220	-30.092	-30.180	-29.715	-29.768	-29.720	-26.282	-24.374	-22.878
Result			Compliance								

Mode			DFT-s-OFDM Module 1 NR Band n258B : BE (dBm) 1 RB					
BW			300MHz			400MHz		
Limit (dBm)			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Low CH	0~10%OB	≤-5	-20.399	-22.176	-20.716	-23.369	-22.995	-21.518
	>10%OB	≤-13	-22.514	-20.344	-20.695	-21.588	-20.377	-20.581
High CH	0~10%OB	≤-5	-21.103	-23.423	-21.048	-21.416	-22.445	-20.681
	>10%OB	≤-13	-20.655	-21.626	-20.890	-21.793	-21.046	-21.354
Result			Compliance					

Mode			CP-OFDM Module 1 NR Band n258B : BE (dBm) 1 RB		
BW			50MHz	100MHz	200MHz
Limit (dBm)			QPSK	QPSK	QPSK
Low CH	0~10%OB	≤-5	-14.117	-14.806	-21.171
	>10%OB	≤-13	-31.648	-34.276	-19.241
High CH	0~10%OB	≤-5	-11.275	-12.727	-21.505
	>10%OB	≤-13	-30.217	-30.343	-22.202
Result			Compliance		

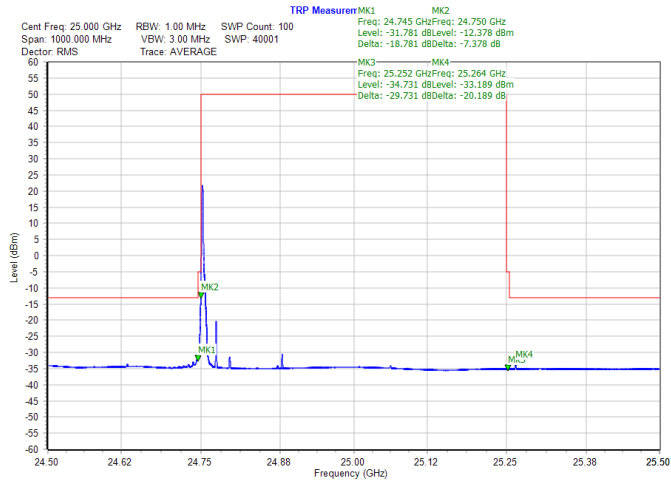
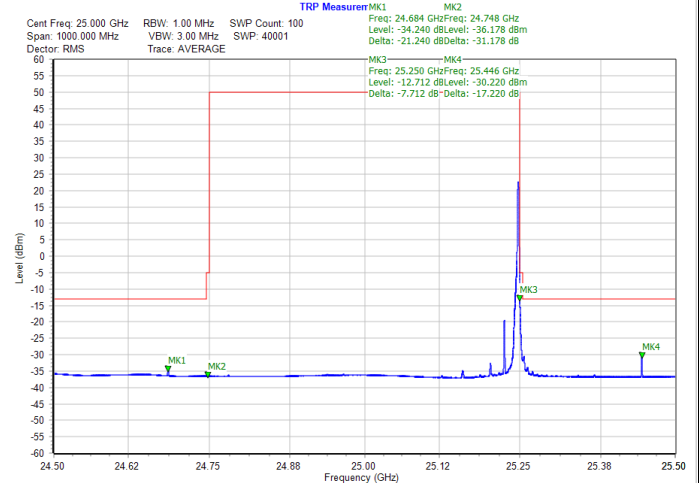
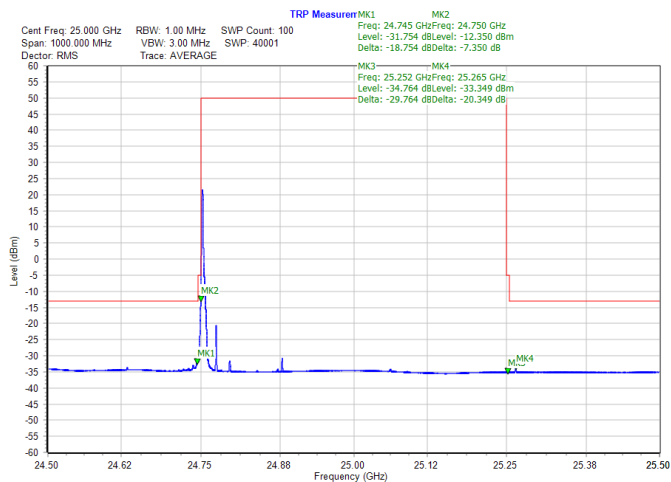
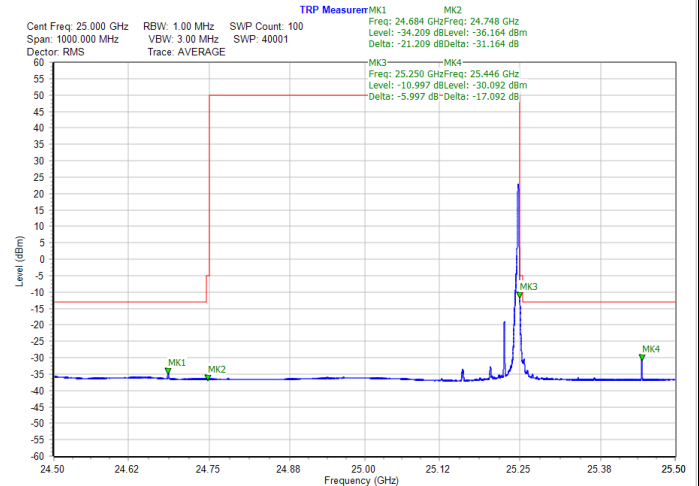
Mode			CP-OFDM Module 1 NR Band n258B : BE (dBm) 1 RB	
BW			300MHz	400MHz
Limit (dBm)			QPSK	QPSK
Low CH	0~10%OB	≤-5	-21.641	-23.067
	>10%OB	≤-13	-20.848	-19.199
High CH	0~10%OB	≤-5	-21.136	-22.940
	>10%OB	≤-13	-16.218	-20.812
Result			Compliance	

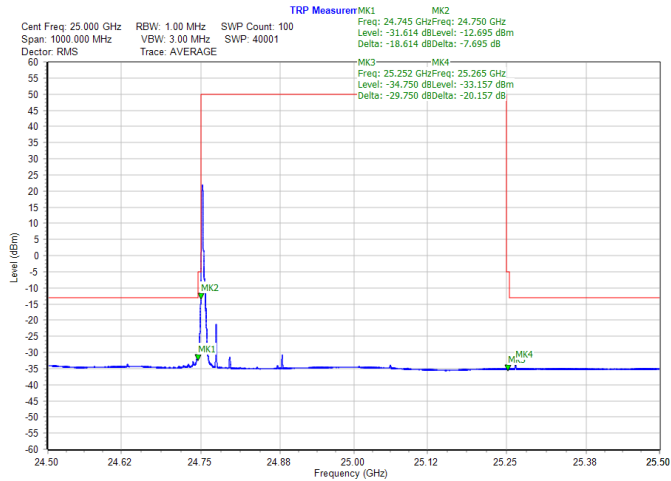
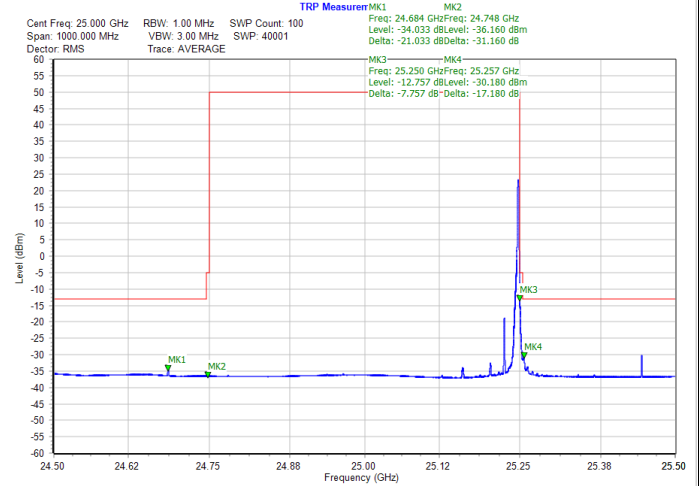
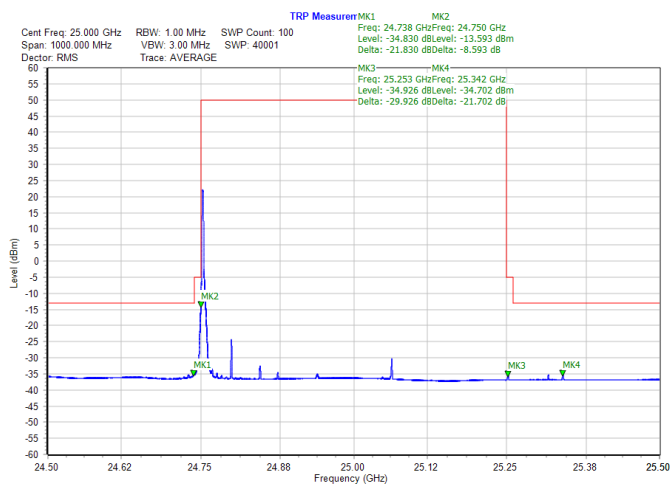
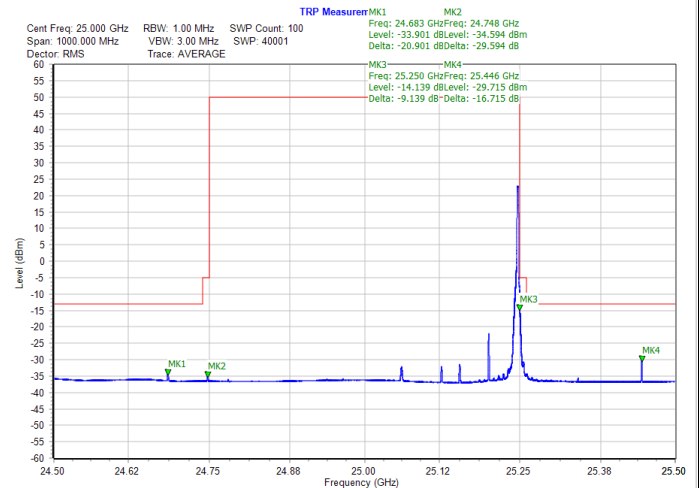
Mode			DFT-s-OFDM Module 1 NR Band n258B : BE (dBm) Full RB								
BW			50MHz			100MHz			200MHz		
Limit (dBm)			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Low CH	0~10%OB	≤-5	-15.644	-17.674	-19.956	-16.978	-19.403	-23.166	-23.298	-23.419	-15.09
	>10%OB	≤-13	-15.535	-18.894	-21.356	-17.857	-20.572	-24.238	-24.135	-25.071	-15.60
High CH	0~10%OB	≤-5	-18.500	-16.914	-20.166	-16.788	-21.186	-25.609	-24.569	-26.572	-15.92
	>10%OB	≤-13	-20.904	-19.978	-21.942	-18.196	-22.201	-25.933	-24.478	-26.776	-15.98
Result			Compliance								

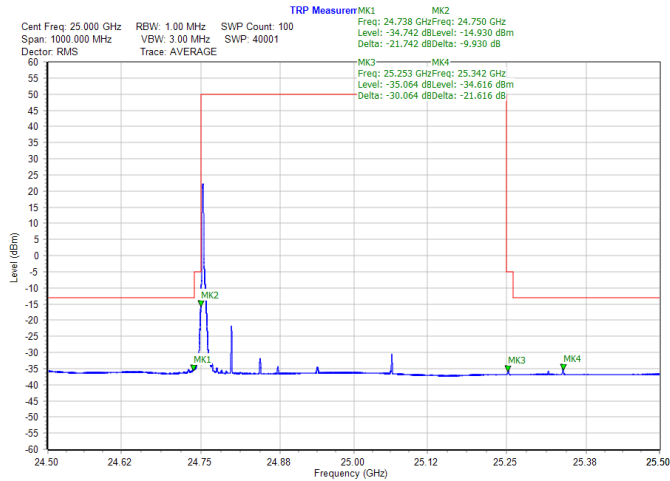
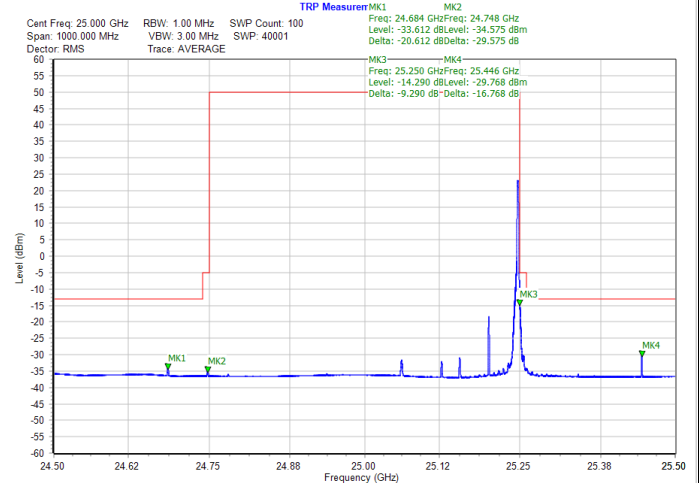
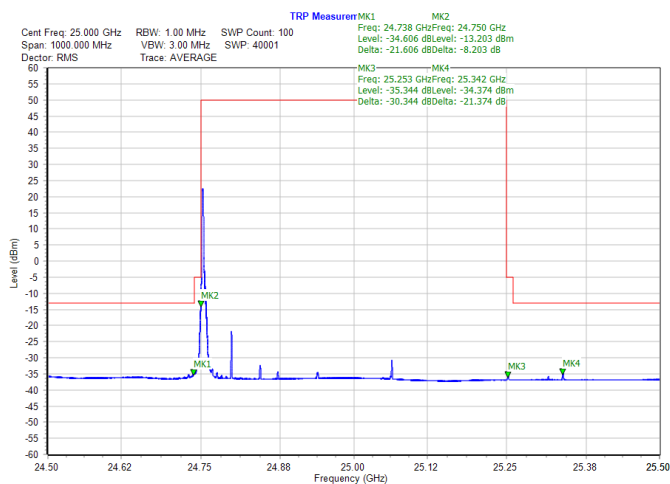
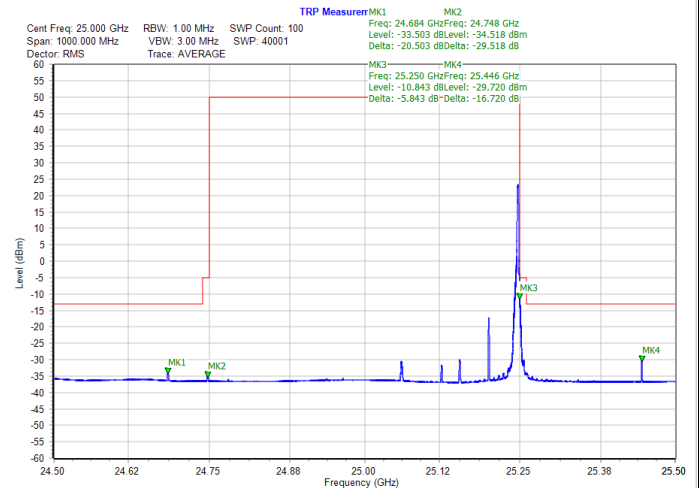
Mode			DFT-s-OFDM Module 1 NR Band n258B : BE (dBm) Full RB					
BW			300MHz			400MHz		
Limit (dBm)			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Low CH	0~10%OB	≤-5	-23.245	-24.634	-15.87	-23.383	-25.964	-15.41
	>10%OB	≤-13	-22.964	-25.460	-15.45	-23.153	-25.596	-15.34
High CH	0~10%OB	≤-5	-23.096	-25.721	-15.33	-22.524	-25.164	-15.62
	>10%OB	≤-13	-22.519	-25.509	-15.64	-22.464	-25.716	-15.67
Result			Compliance					

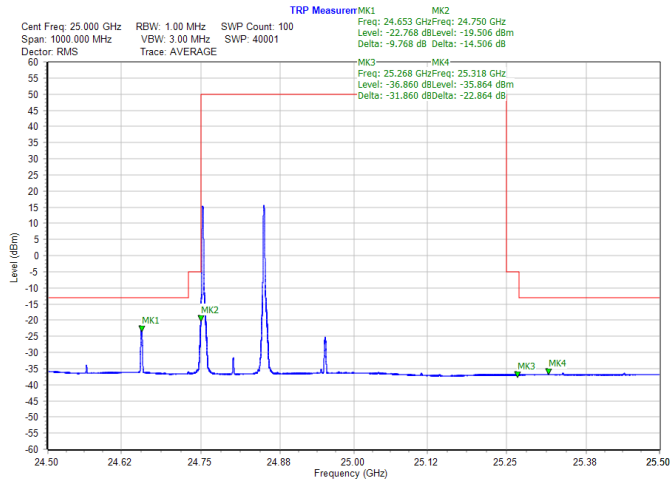
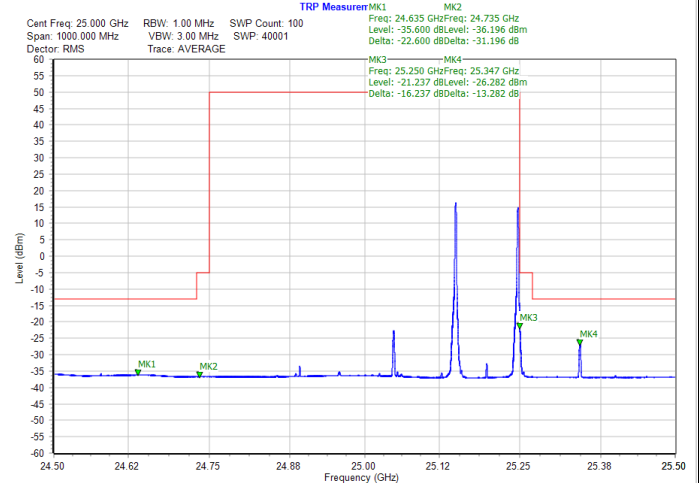
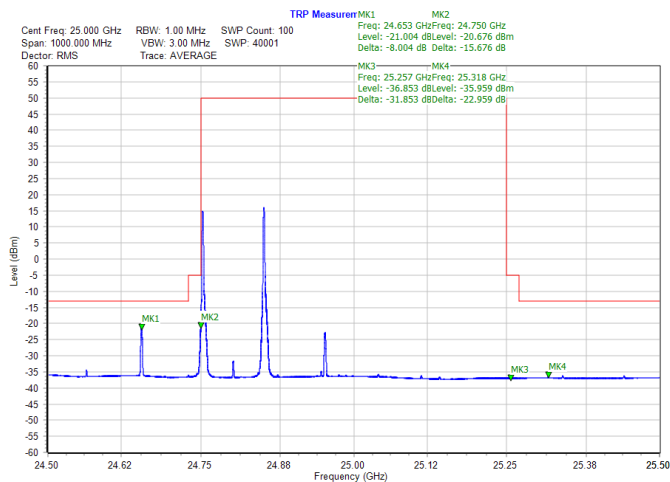
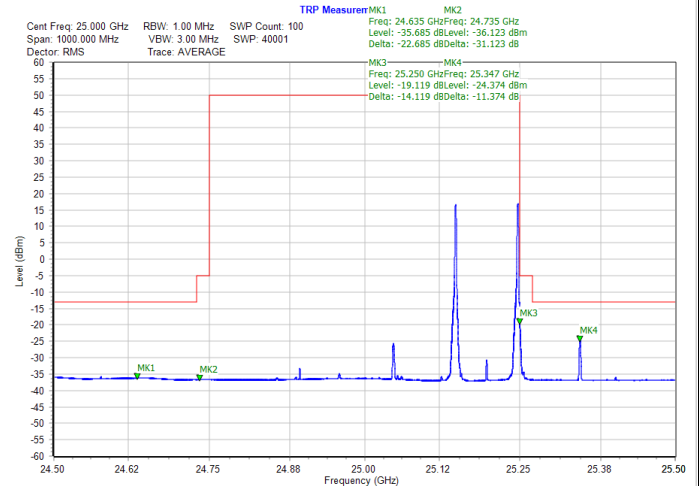
Mode			CP-OFDM Module 1 NR Band n258B : BE (dBm) Full RB		
BW			50MHz	100MHz	200MHz
Limit (dBm)			QPSK	QPSK	QPSK
Low CH	0~10%OB	≤-5	-15.429	-16.636	-23.298
	>10%OB	≤-13	-16.773	-17.911	-24.135
High CH	0~10%OB	≤-5	-14.776	-17.509	-23.266
	>10%OB	≤-13	-15.987	-19.316	-26.117
Result			Compliance		

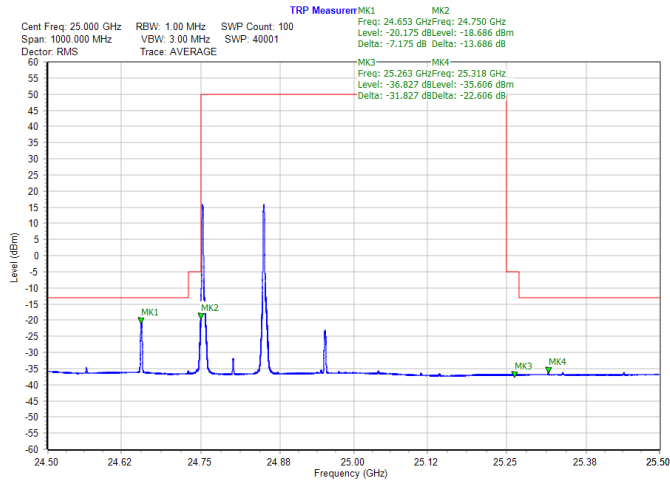
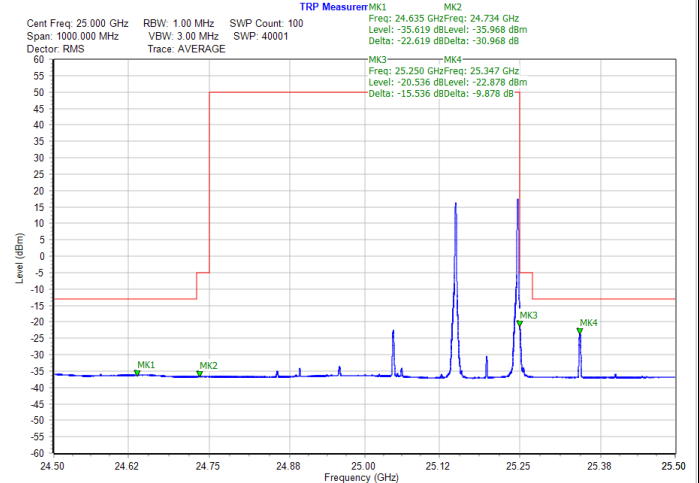
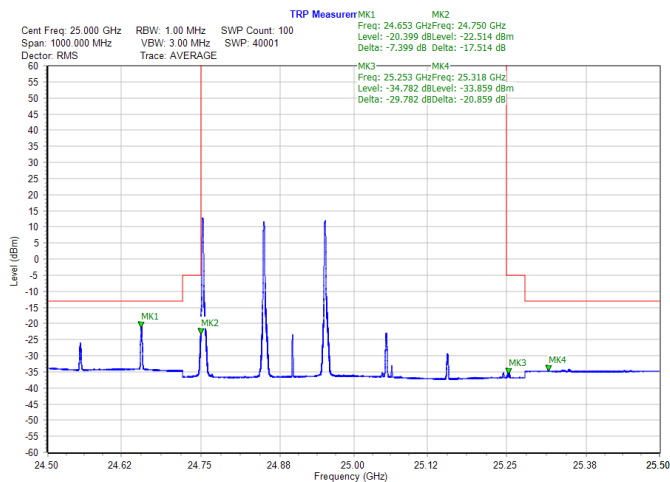
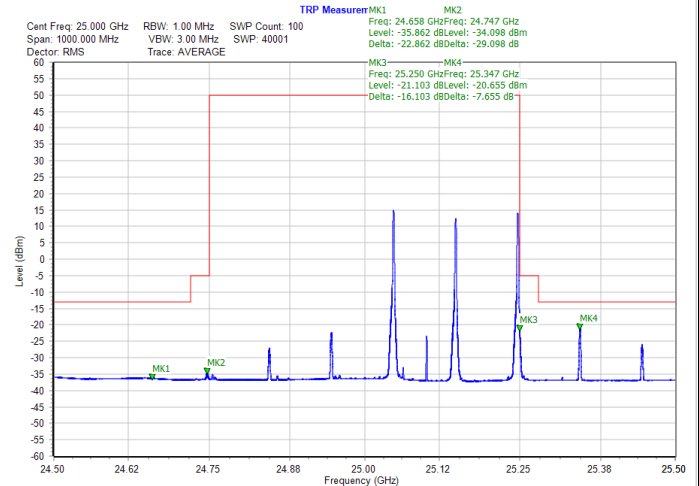
Mode			CP-OFDM Module 1 NR Band n258B : BE (dBm) Full RB	
BW			300MHz	400MHz
Limit (dBm)			QPSK	QPSK
Low CH	0~10%OB	≤-5	-24.900	-25.001
	>10%OB	≤-13	-25.352	-26.071
High CH	0~10%OB	≤-5	-24.974	-25.017
	>10%OB	≤-13	-25.863	-26.134
Result			Compliance	

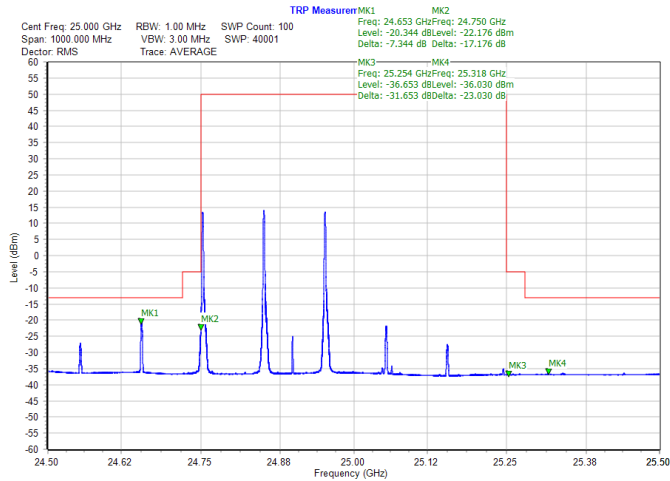
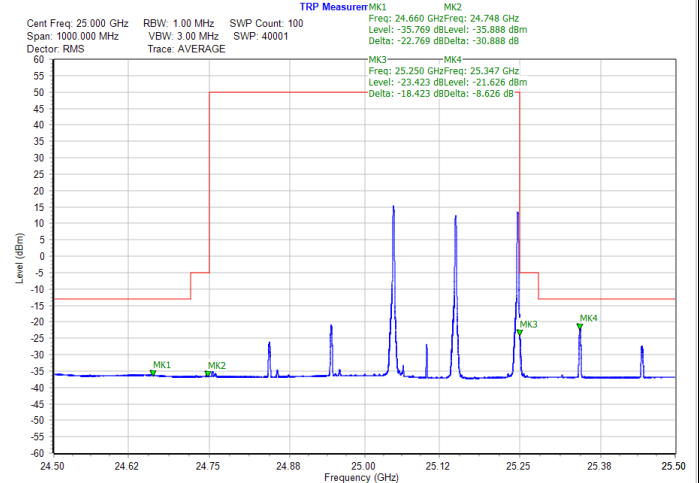
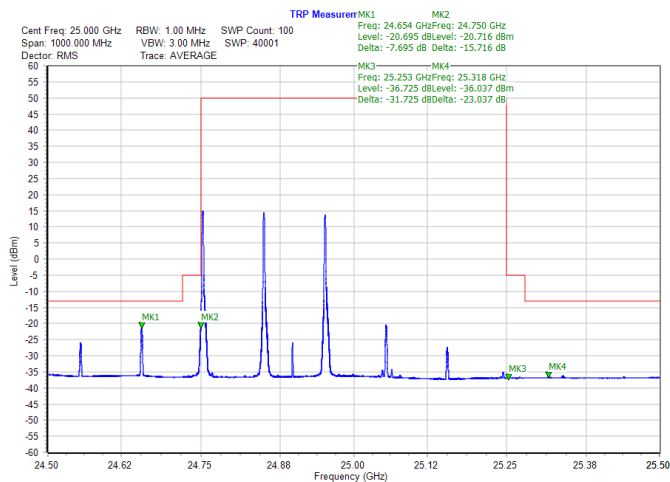
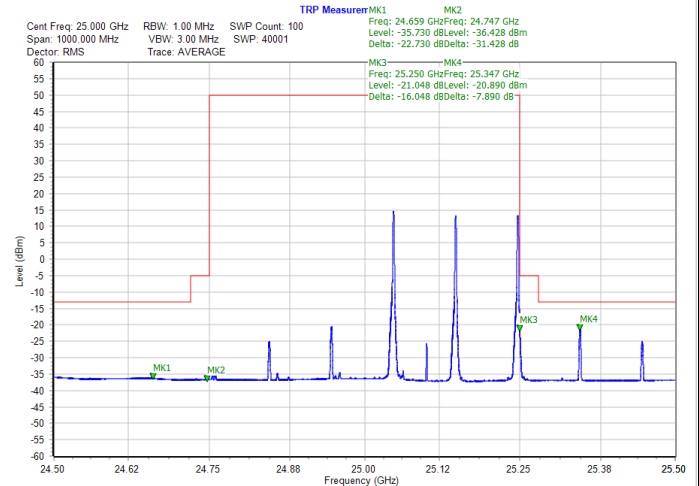
**DFT-s-OFDM Module 1****NR Band n258B / 50MHz / QPSK****Lowest Band Edge / 1 RB****Highest Band Edge / 1 RB****NR Band n258B / 50MHz / 16QAM****Lowest Band Edge / 1 RB****Highest Band Edge / 1 RB**

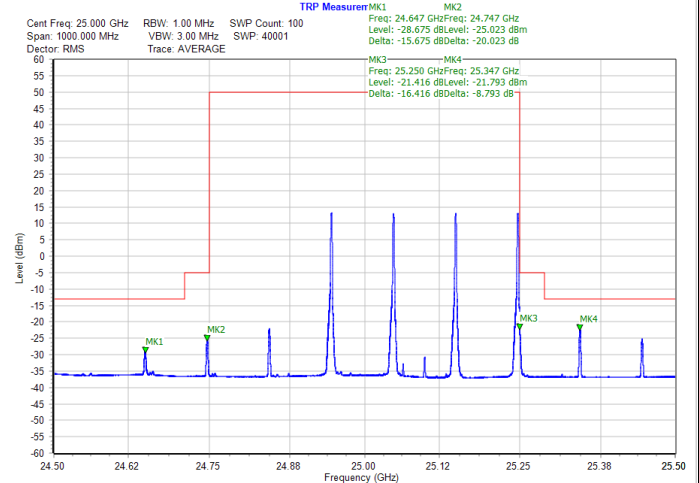
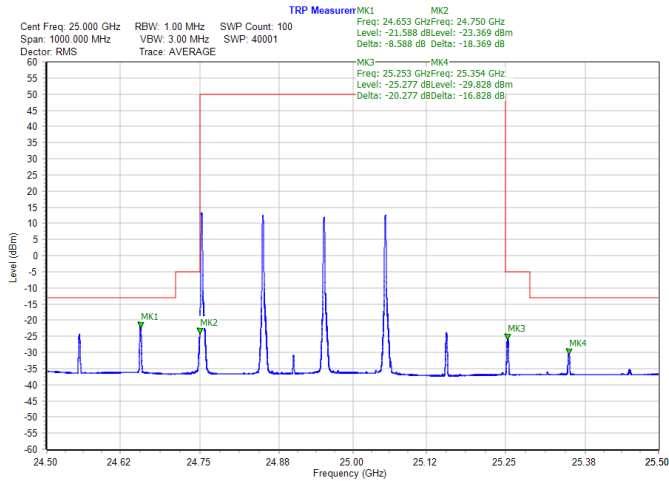
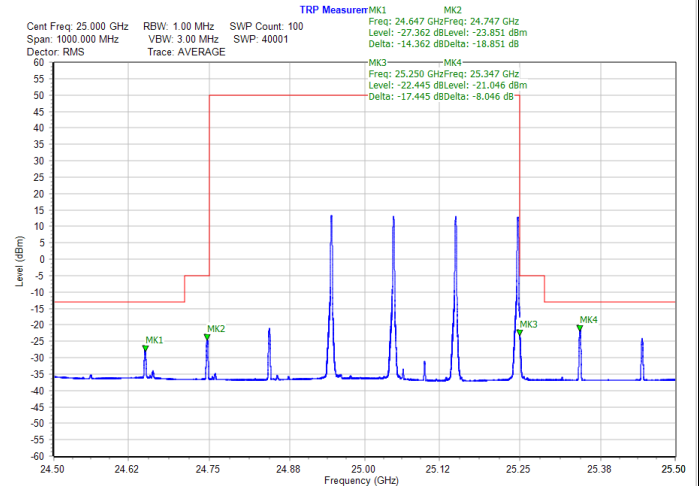
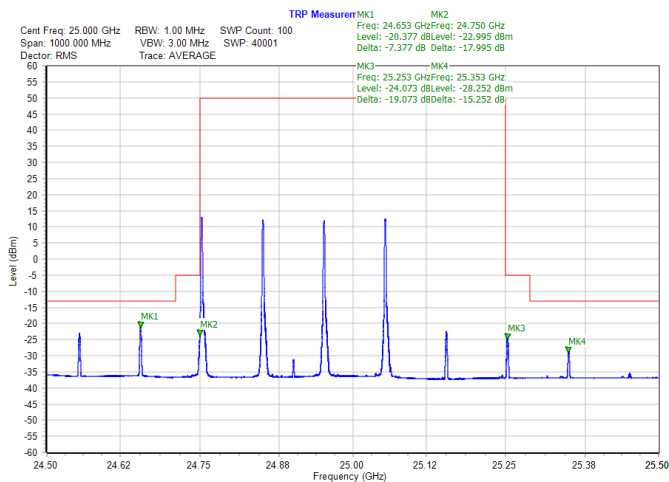
**DFT-s-OFDM Module 1****NR Band n258B / 50MHz / 64QAM****Lowest Band Edge / 1 RB****Highest Band Edge / 1 RB****NR Band n258B / 100MHz / QPSK****Lowest Band Edge / 1 RB****Highest Band Edge / 1 RB**

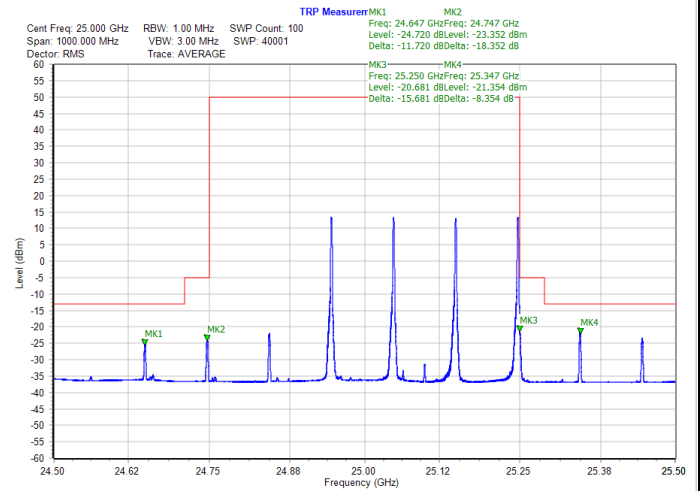
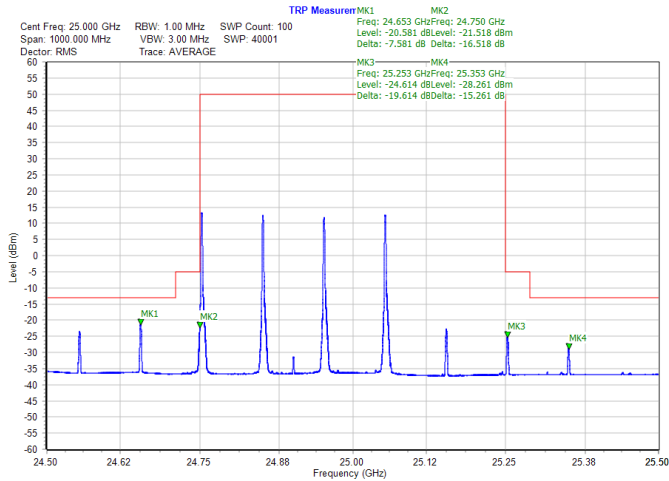
**DFT-s-OFDM Module 1****NR Band n258B / 100MHz / 16QAM****Lowest Band Edge / 1 RB****Highest Band Edge / 1 RB****NR Band n258B / 100MHz / 64QAM****Lowest Band Edge / 1 RB****Highest Band Edge / 1 RB**

**DFT-s-OFDM Module 1****NR Band n258B / 200MHz / QPSK****Lowest Band Edge / 1 RB****Highest Band Edge / 1 RB****NR Band n258B / 200MHz / 16QAM****Lowest Band Edge / 1 RB****Highest Band Edge / 1 RB**

**DFT-s-OFDM Module 1****NR Band n258B / 200MHz / 64QAM****Lowest Band Edge / 1 RB****Highest Band Edge / 1 RB****NR Band n258B / 300MHz / QPSK****Lowest Band Edge / 1 RB****Highest Band Edge / 1 RB**

**DFT-s-OFDM Module 1****NR Band n258B / 300MHz / 16QAM****Lowest Band Edge / 1 RB****Highest Band Edge / 1 RB****NR Band n258B / 300MHz / 64QAM****Lowest Band Edge / 1 RB****Highest Band Edge / 1 RB**

**DFT-s-OFDM Module 1****NR Band n258B / 400MHz / QPSK****Lowest Band Edge / 1 RB****Highest Band Edge / 1 RB****NR Band n258B / 400MHz / 16QAM****Lowest Band Edge / 1 RB****Highest Band Edge / 1 RB**

**DFT-s-OFDM Module 1****NR Band n258B / 400MHz / 64QAM****Lowest Band Edge / 1 RB****Highest Band Edge / 1 RB**

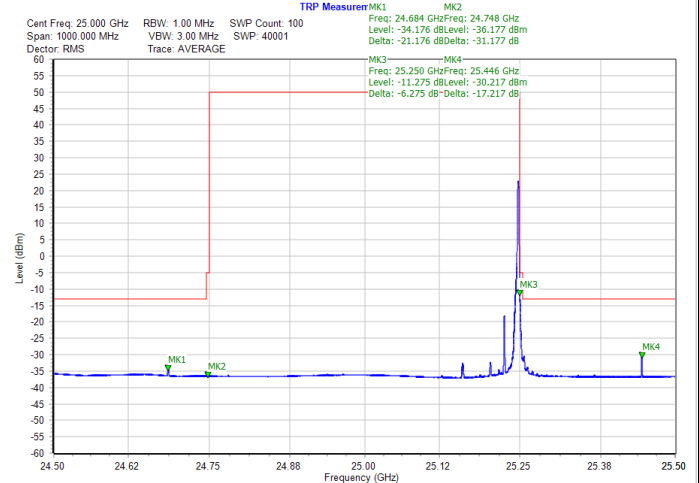
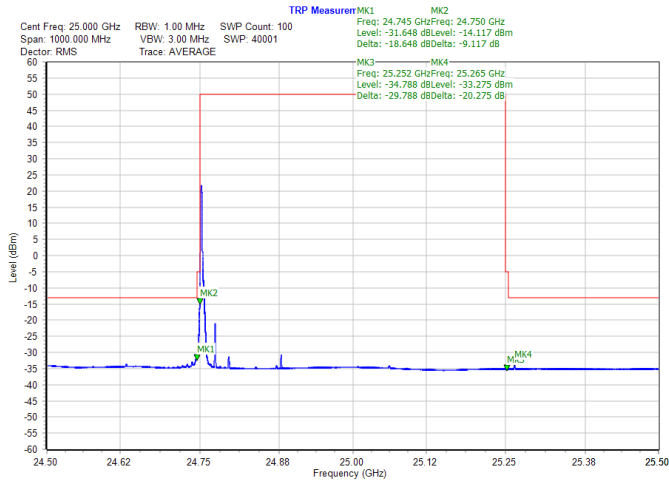


CP-OFDM Module 1

NR Band n258B / 50MHz / QPSK

Lowest Band Edge / 1 RB

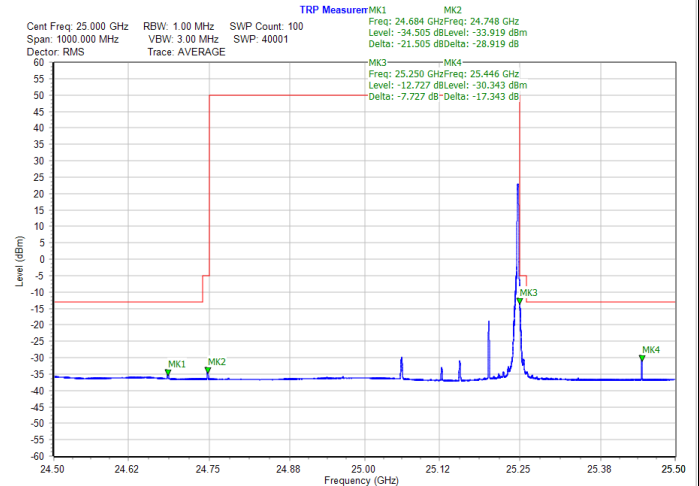
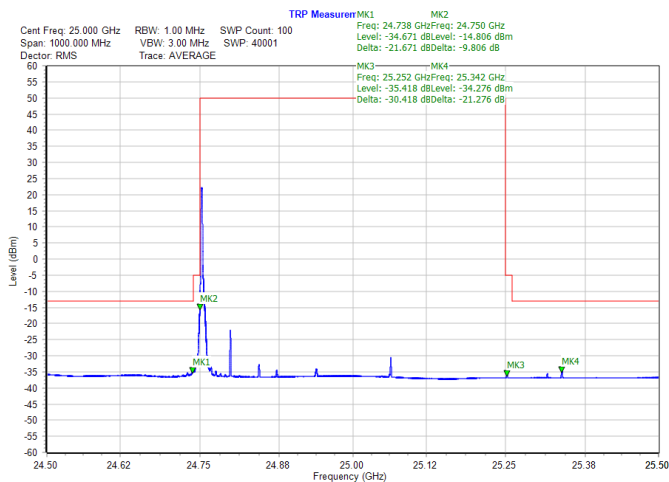
Highest Band Edge / 1 RB

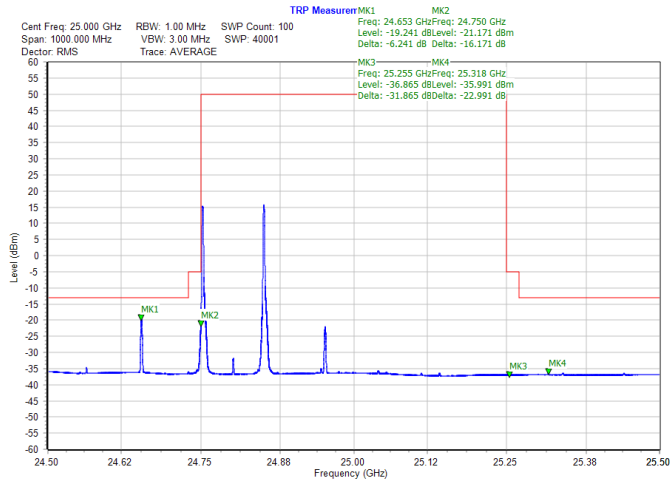
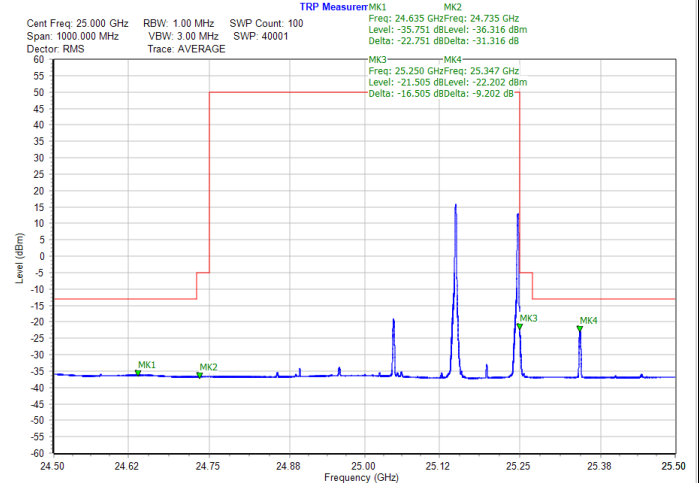
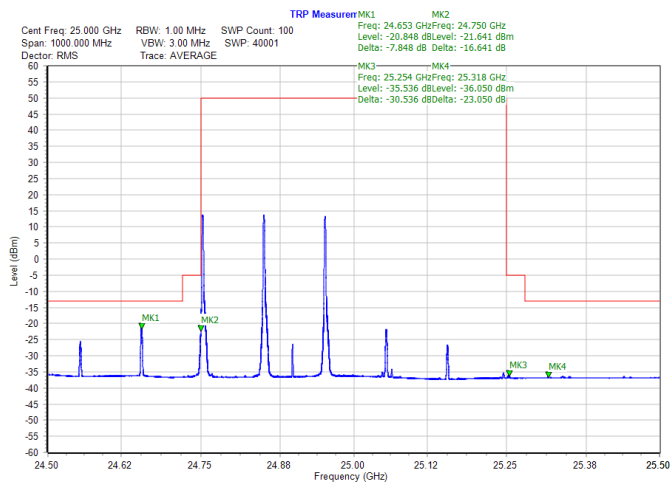
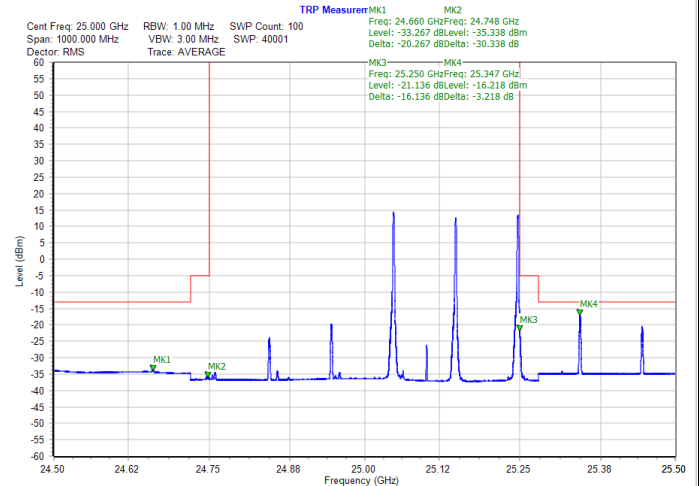


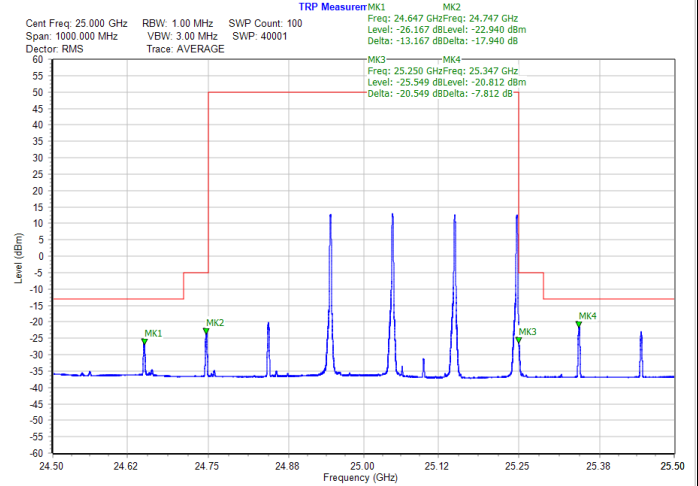
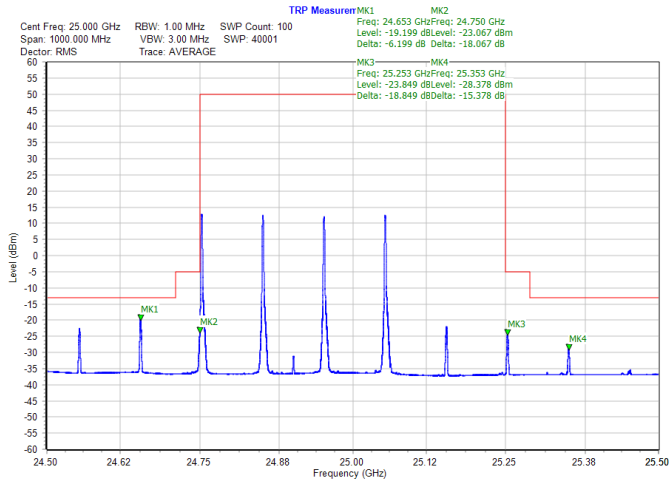
NR Band n258B / 100MHz / QPSK

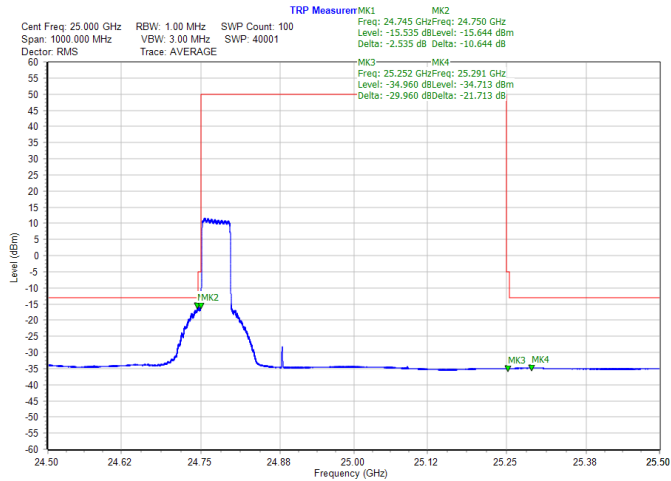
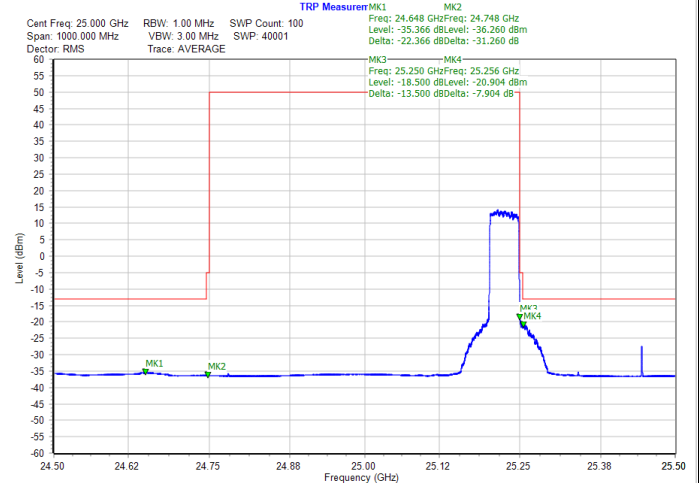
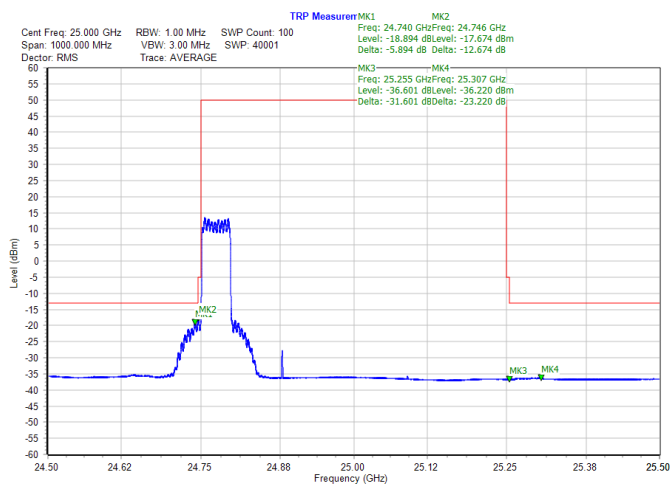
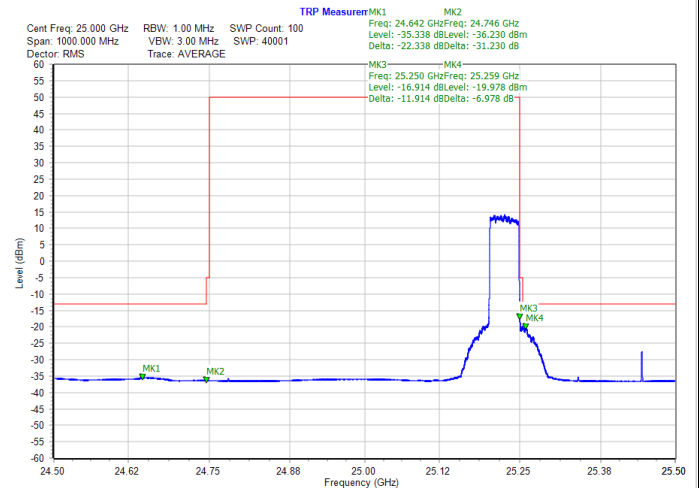
Lowest Band Edge / 1 RB

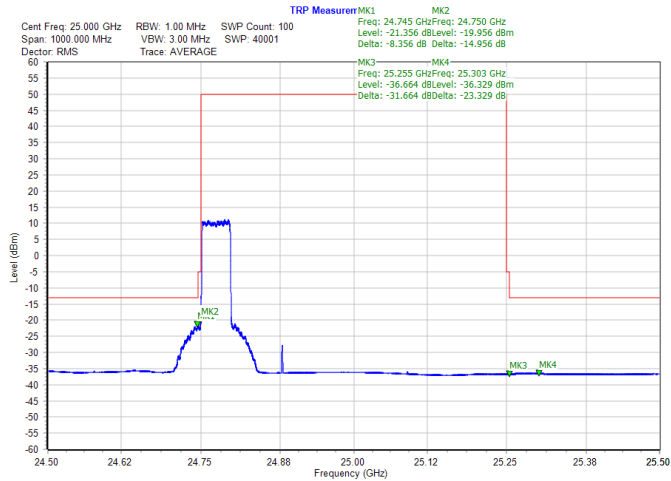
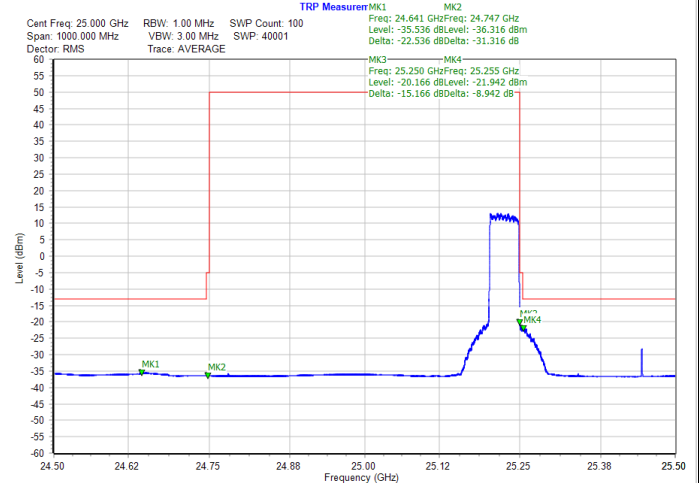
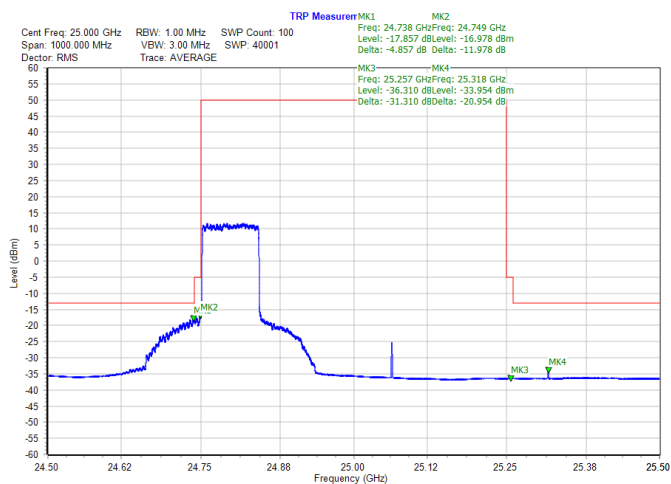
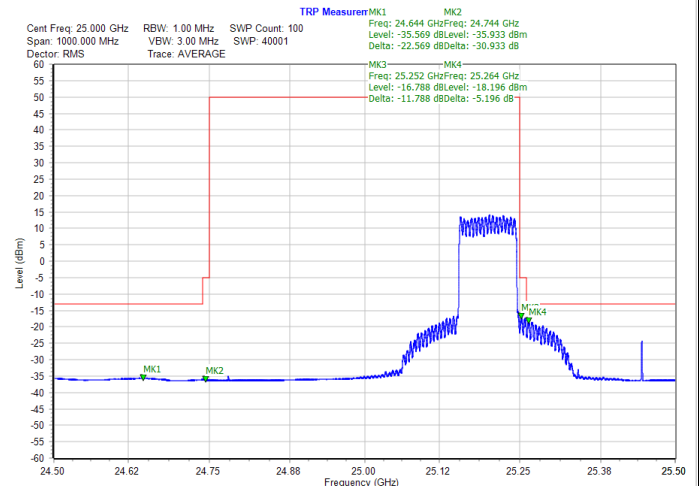
Highest Band Edge / 1 RB

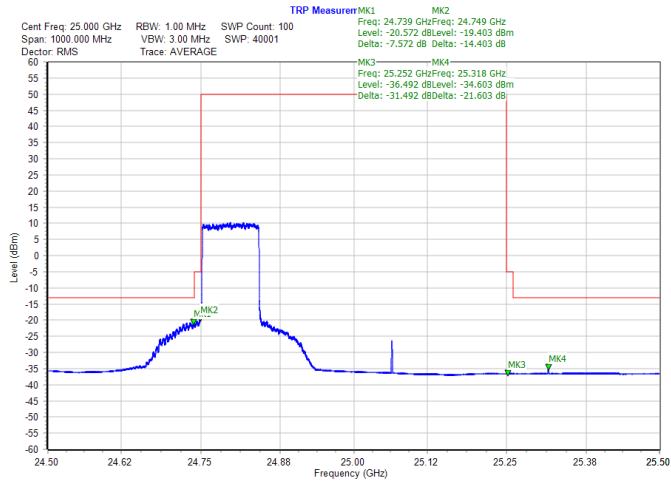
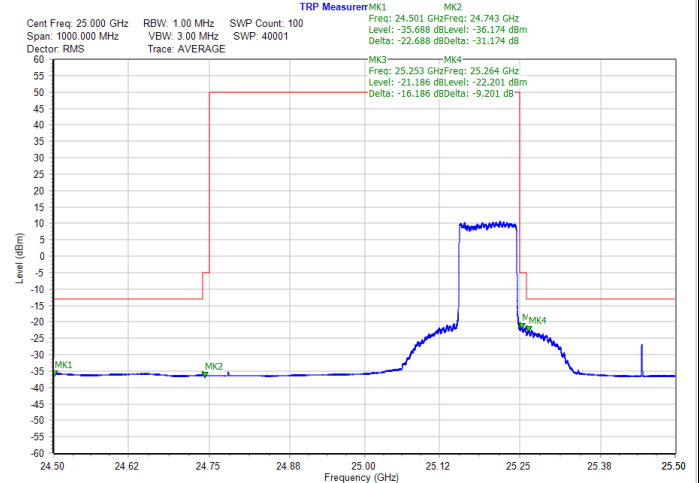
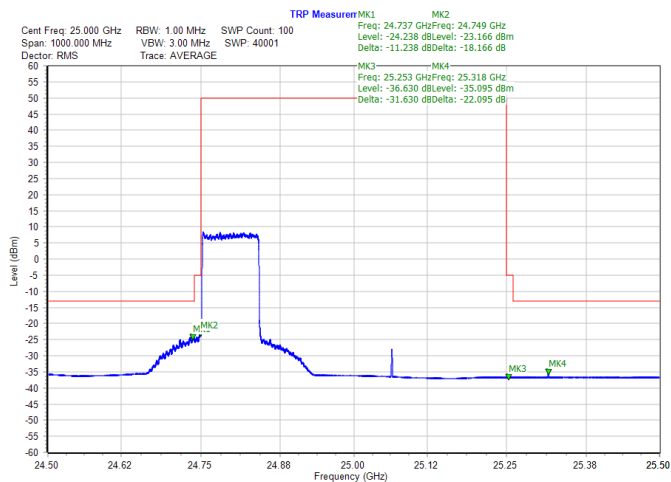
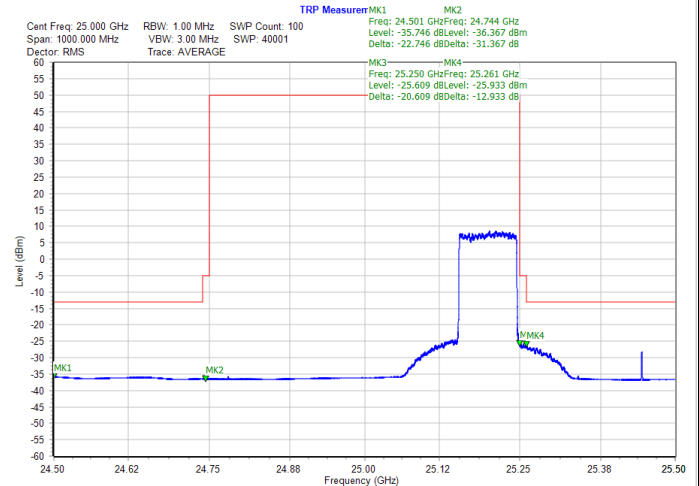


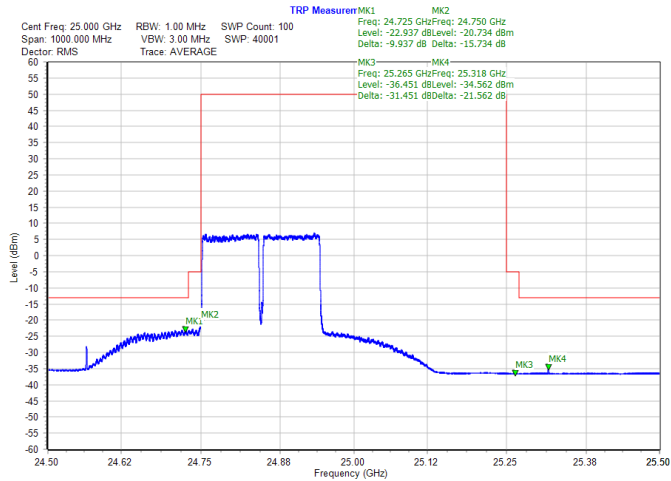
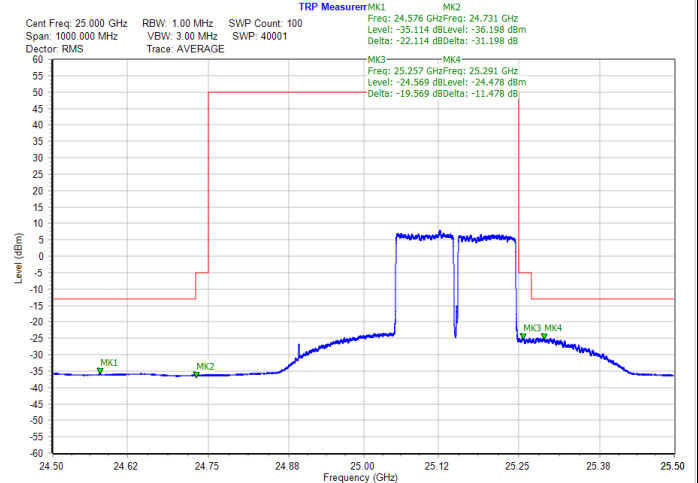
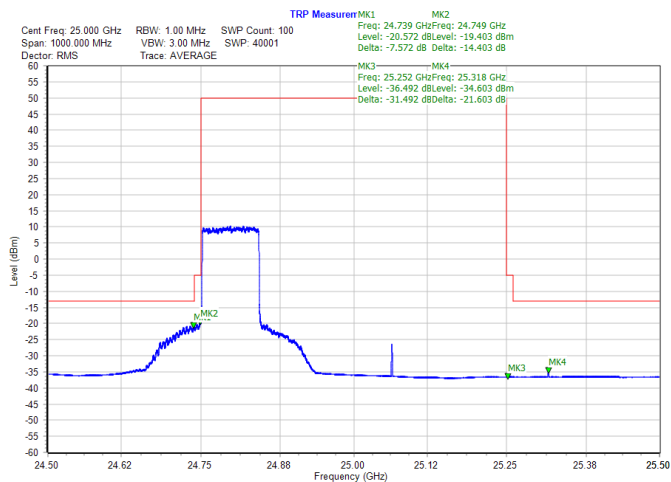
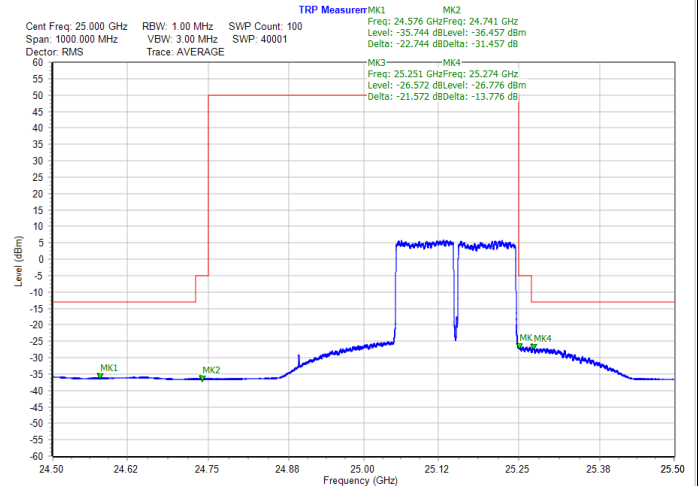
**CP-OFDM Module 1****NR Band n258B / 200MHz / QPSK****Lowest Band Edge / 1 RB****Highest Band Edge / 1 RB****NR Band n258B / 300MHz / QPSK****Lowest Band Edge / 1 RB****Highest Band Edge / 1 RB**

**CP-OFDM Module 1****NR Band n258B / 400MHz / QPSK****Lowest Band Edge / 1 RB****Highest Band Edge / 1 RB**

**DFT-s-OFDM Module 1****NR Band n258B / 50MHz / QPSK****Lowest Band Edge / Full RB****Highest Band Edge / Full RB****NR Band n258B / 50MHz / 16QAM****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**

**DFT-s-OFDM Module 1****NR Band n258B / 50MHz / 64QAM****Lowest Band Edge / Full RB****Highest Band Edge / Full RB****NR Band n258B / 100MHz / QPSK****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**

**DFT-s-OFDM Module 1****NR Band n258B / 100MHz / 16QAM****Lowest Band Edge / Full RB****Highest Band Edge / Full RB****NR Band n258B / 100MHz / 64QAM****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**

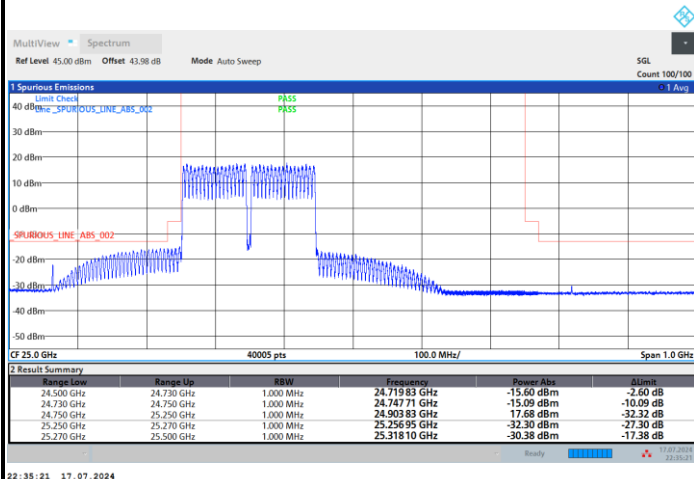
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DFT-s-OFDM Module 1

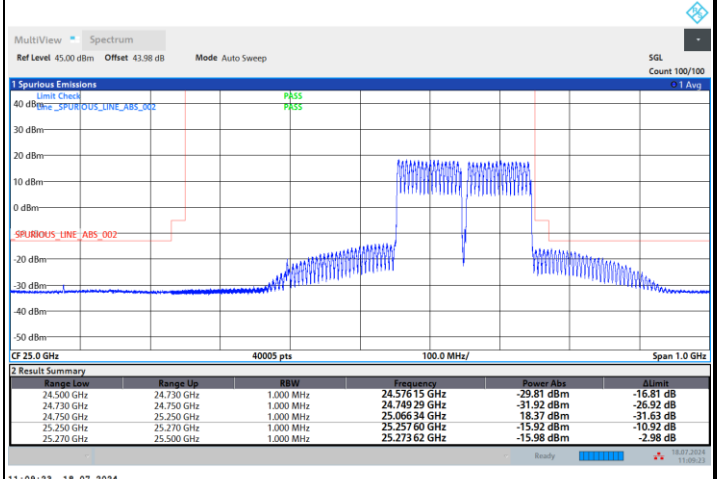
NR Band n258B / 200MHz / 64QAM

Lowest Band Edge / Full RB



22:35:21 17.07.2024

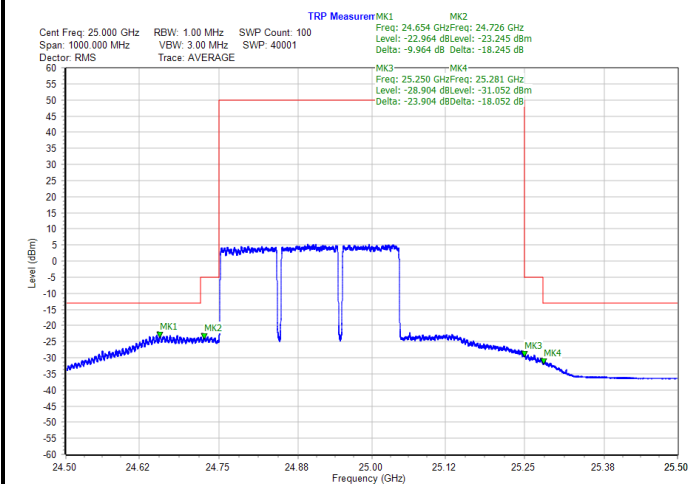
Highest Band Edge / Full RB



11:09:23 18.07.2024

NR Band n258B / 300MHz / QPSK

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

