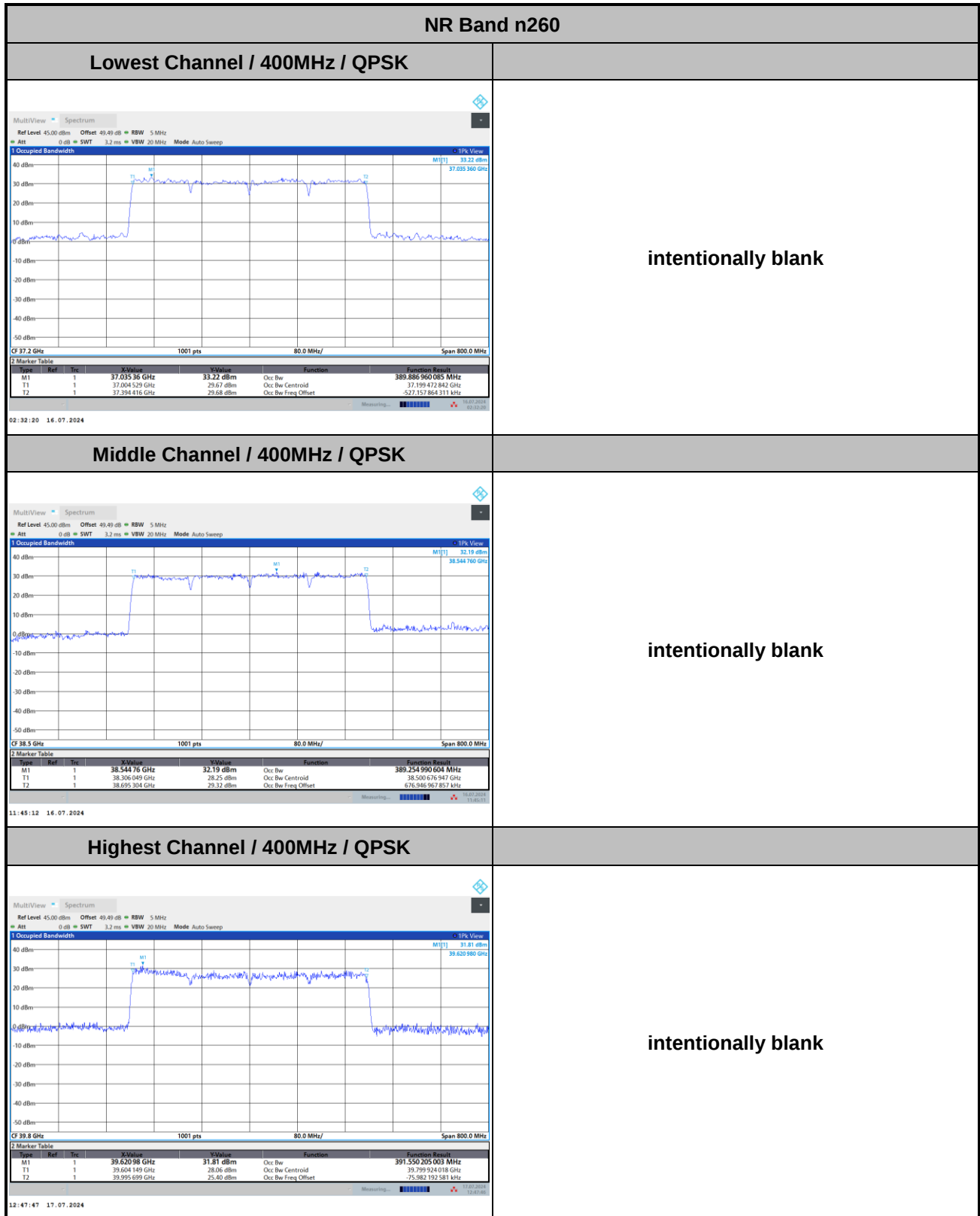


CP-OFDM Module 1



Radiated Out of Band Emissions

Mode			DFT-s-OFDM Module 1 NR Band n260 : 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	-13.788	-12.759	-13.845	-13.588	-14.593	-14.221	-19.503	-21.260	-20.917
	>10%OB	≤-13	-24.301	-24.289	-24.302	-24.301	-24.309	-24.315	-21.769	-19.616	-19.445
High CH	0~10%OB	≤-5	-15.751	-16.231	-13.849	-15.645	-16.005	-16.753	-6.38	-7.27	-5.69
	>10%OB	≤-13	-23.284	-23.267	-23.273	-24.280	-24.295	-24.294	-17.74	-14.06	-13.33
Result			Compliance								

Mode			DFT-s-OFDM Module 1 NR Band n260 : BE (dBm) 1 RB					
BW			300MHz			400MHz		
Limit (dBm)			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Low CH	0~10%OB	≤-5	-24.170	-24.413	-20.055	-22.601	-24.028	-19.480
	>10%OB	≤-13	-19.755	-19.995	-19.790	-18.493	-18.013	-18.904
High CH	0~10%OB	≤-5	-22.273	-21.665	-18.529	-22.671	-22.001	-21.908
	>10%OB	≤-13	-20.638	-19.781	-20.132	-17.711	-18.519	-19.392
Result			Compliance					

Mode			CP-OFDM Module 1 NR Band n260 : BE (dBm) 1 RB		
BW			50MHz	100MHz	200MHz
Limit (dBm)			QPSK	QPSK	QPSK
Low CH	0~10%OB	≤-5	-14.427	-15.946	-22.836
	>10%OB	≤-13	-24.309	-24.314	-19.937
High CH	0~10%OB	≤-5	-13.549	-16.349	-21.267
	>10%OB	≤-13	-23.275	-24.313	-20.364
Result			Compliance		

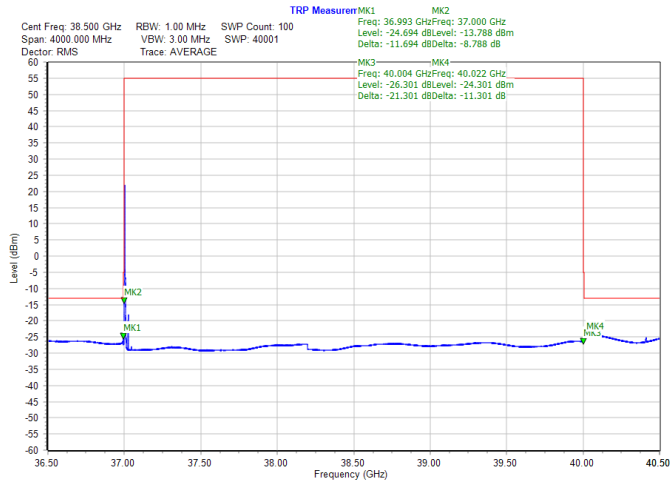
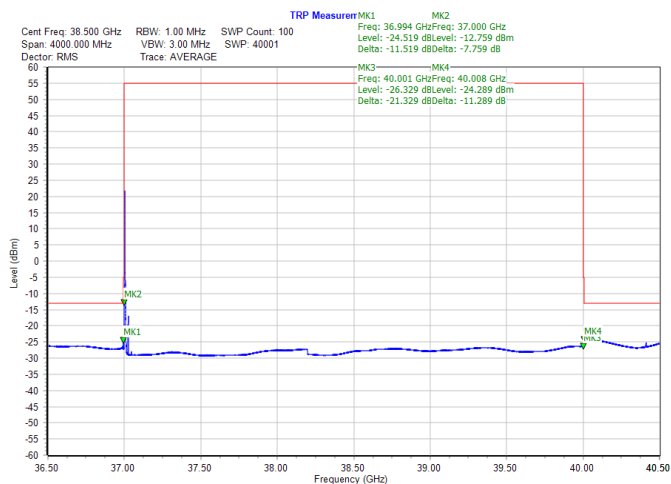
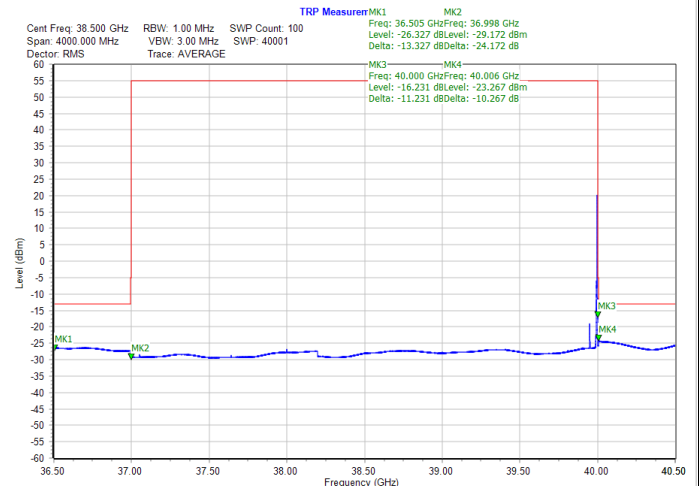
Mode			CP-OFDM Module 1 NR Band n260 : BE (dBm) 1 RB	
BW			300MHz	400MHz
Limit (dBm)			QPSK	QPSK
Low CH	0~10%OB	≤-5	-19.958	-21.090
	>10%OB	≤-13	-18.874	-18.783
High CH	0~10%OB	≤-5	-21.457	-23.337
	>10%OB	≤-13	-16.147	-17.730
Result			Compliance	

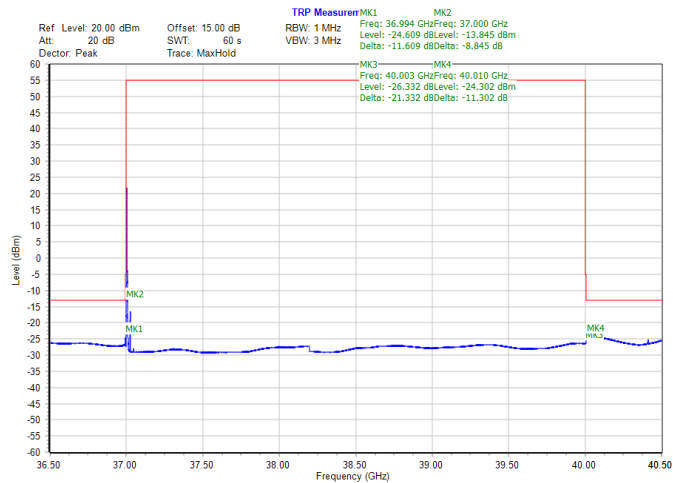
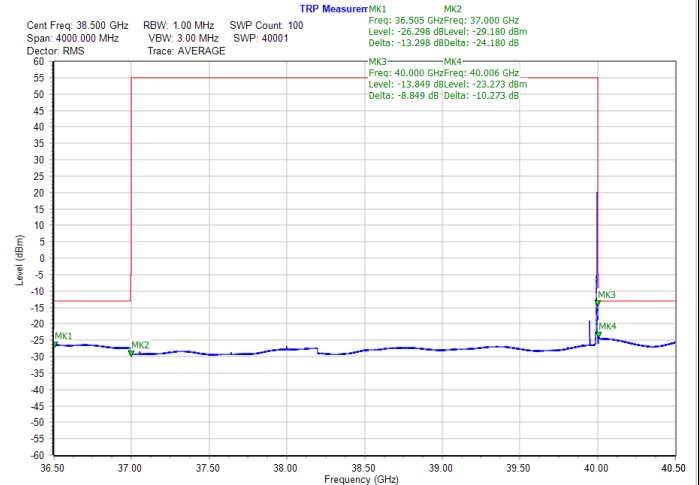
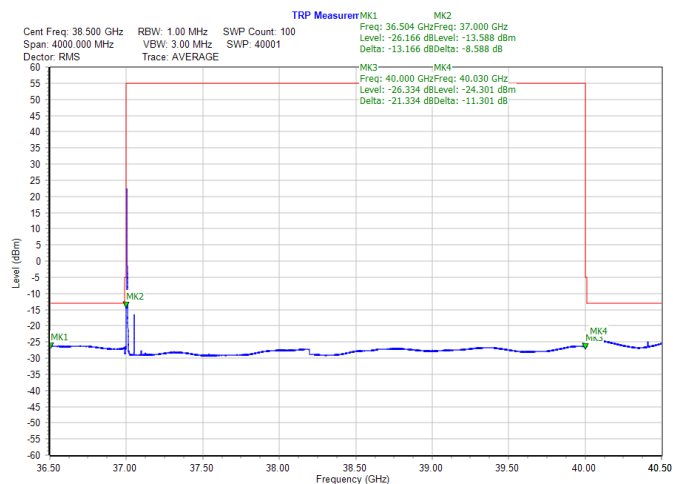
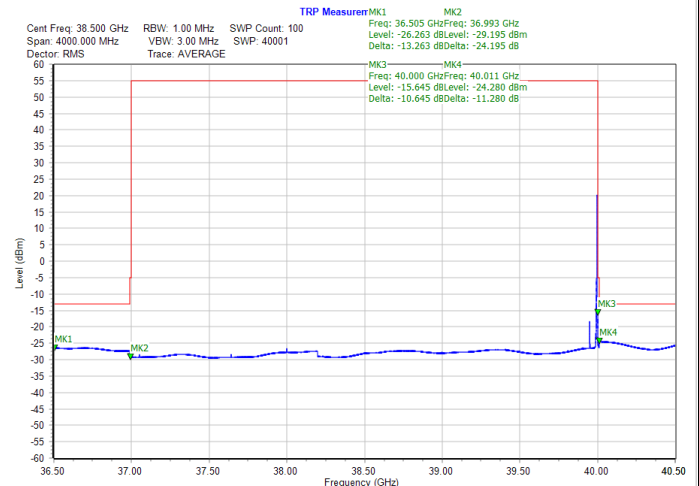
Mode			DFT-s-OFDM Module 1 NR Band n260 : BE (dBm) Full RB								
BW			50MHz			100MHz			200MHz		
Limit (dBm)			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Low CH	0~10%OB	≤-5	-8.29	-10.50	-12.32	-19.567	-23.357	-13.28	-12.26	-12.81	-15.18
	>10%OB	≤-13	-16.78	-13.31	-15.29	-19.449	-22.978	-15.76	-14.16	-15.86	-18.45
High CH	0~10%OB	≤-5	-8.52	-9.36	-9.50	-19.767	-22.954	-18.13	-14.06	-17.85	-21.56
	>10%OB	≤-13	-15.52	-13.33	-16.36	-18.328	-21.390	-20.39	-14.78	-18.10	-22.35
Result			Compliance								

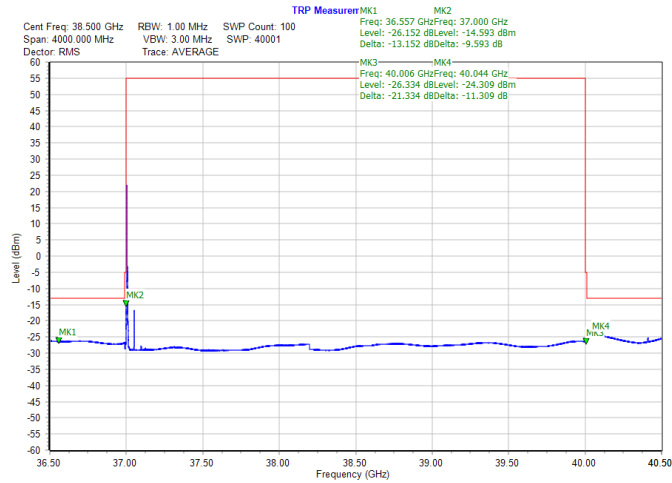
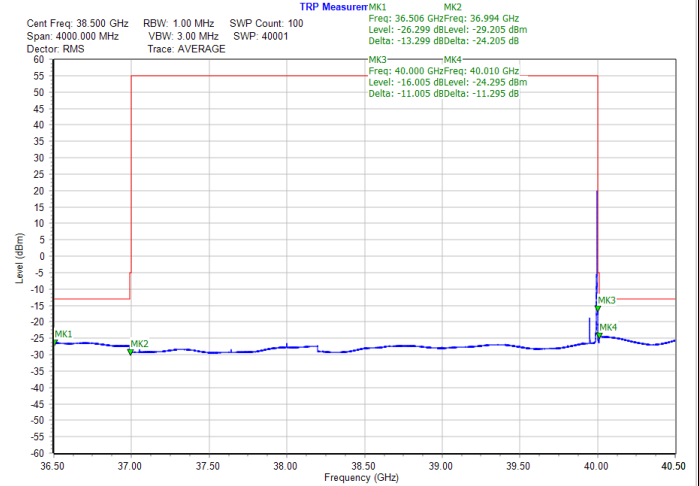
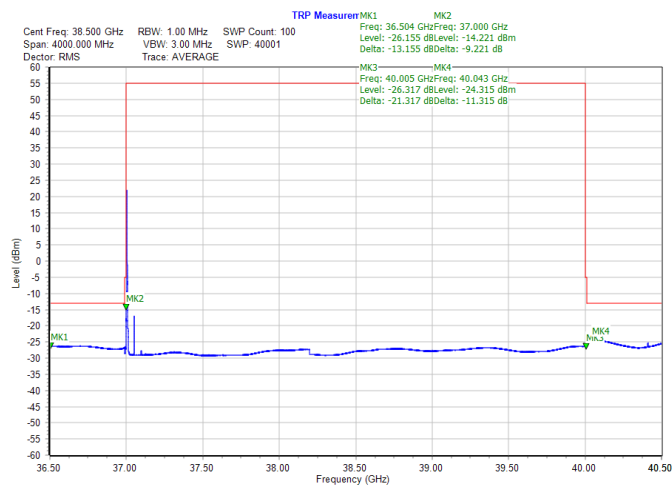
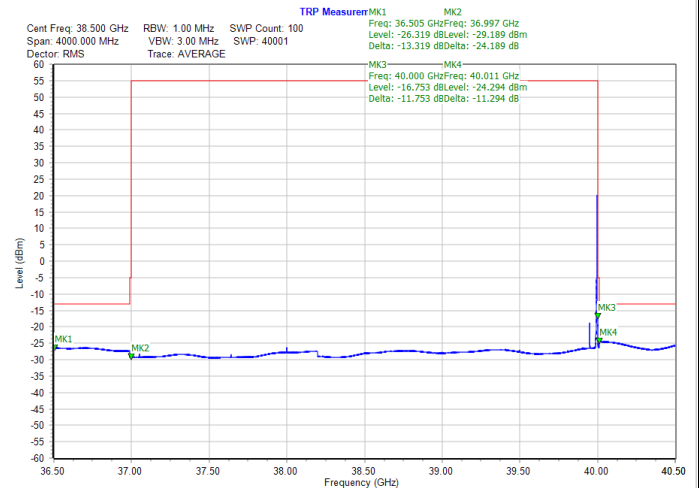
Mode			DFT-s-OFDM Module 1 NR Band n260 : BE (dBm) Full RB					
BW			300MHz			400MHz		
Limit (dBm)			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Low CH	0~10%OB	≤-5	-22.917	-26.389	-15.47	-23.750	-24.238	-14.36
	>10%OB	≤-13	-25.372	-24.615	-15.56	-22.386	-22.134	-15.43
High CH	0~10%OB	≤-5	-23.766	-13.98	-18.44	-23.591	-24.798	-15.83
	>10%OB	≤-13	-21.888	-13.18	-17.57	-21.679	-23.025	-14.80
Result			Compliance					

Mode			CP-OFDM Module 1 NR Band n260 : BE (dBm) Full RB		
BW			50MHz	100MHz	200MHz
Limit (dBm)			QPSK	QPSK	QPSK
Low CH	0~10%OB	≤-5	-18.318	-18.719	-12.09
	>10%OB	≤-13	-17.631	-18.299	-14.42
High CH	0~10%OB	≤-5	-18.606	-20.207	-13.26
	>10%OB	≤-13	-17.984	-18.853	-14.79
Result			Compliance		

Mode			CP-OFDM Module 1 NR Band n260 : BE (dBm) Full RB	
BW			300MHz	400MHz
Limit (dBm)			QPSK	QPSK
Low CH	0~10%OB	≤-5	-26.570	-24.260
	>10%OB	≤-13	-24.575	-22.234
High CH	0~10%OB	≤-5	-24.282	-24.764
	>10%OB	≤-13	-23.016	-22.955
Result			Compliance	

**DFT-s-OFDM Module 1****NR Band n260 / 50MHz / QPSK****Lowest Band Edge / 1 RB****Highest Band Edge / 1 RB****NR Band n260 / 50MHz / 16QAM****Lowest Band Edge / 1 RB****Highest Band Edge / 1 RB**

**DFT-s-OFDM Module 1****NR Band n260 / 50MHz / 64QAM****Lowest Band Edge / 1 RB****Highest Band Edge / 1 RB****NR Band n260 / 100MHz / QPSK****Lowest Band Edge / 1 RB****Highest Band Edge / 1 RB**

**DFT-s-OFDM Module 1****NR Band n260 / 100MHz / 16QAM****Lowest Band Edge / 1 RB****Highest Band Edge / 1 RB****NR Band n260 / 100MHz / 64QAM****Lowest Band Edge / 1 RB****Highest Band Edge / 1 RB**

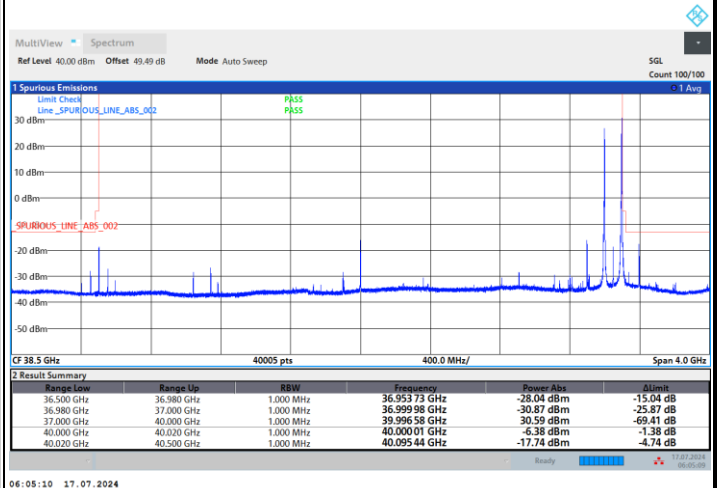
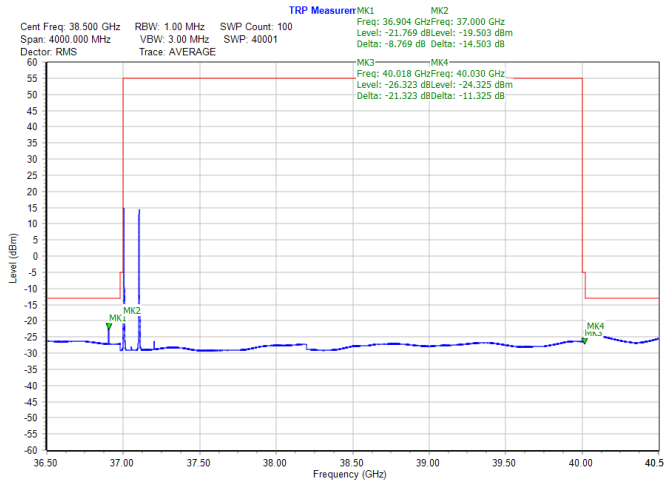


DFT-s-OFDM Module 1

NR Band n260 / 200MHz / QPSK

Lowest Band Edge / 1 RB

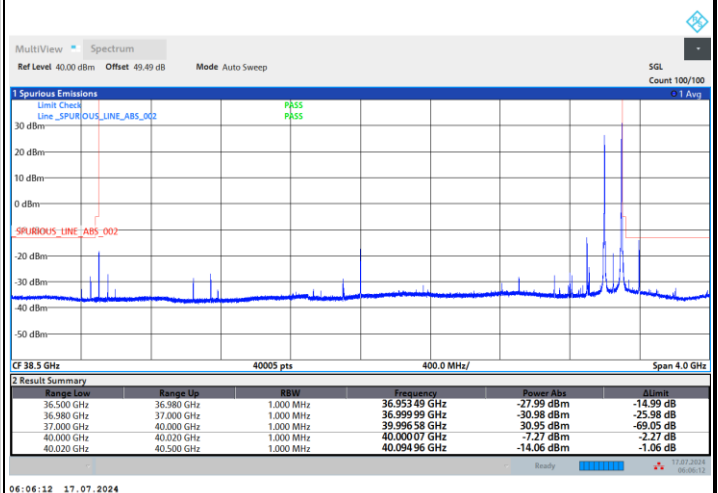
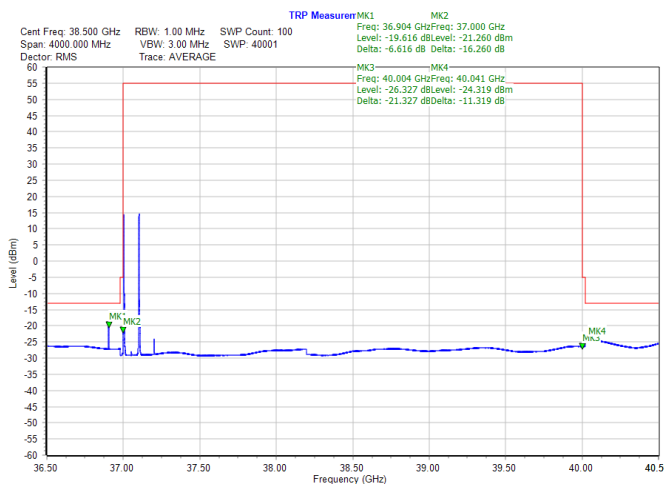
Highest Band Edge / 1 RB



NR Band n260 / 200MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

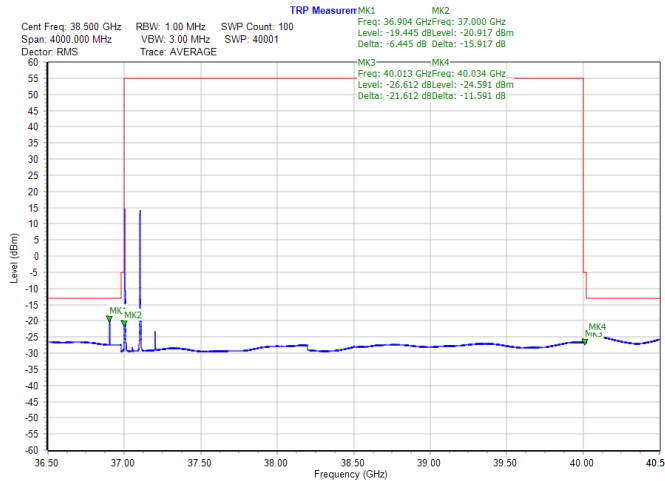




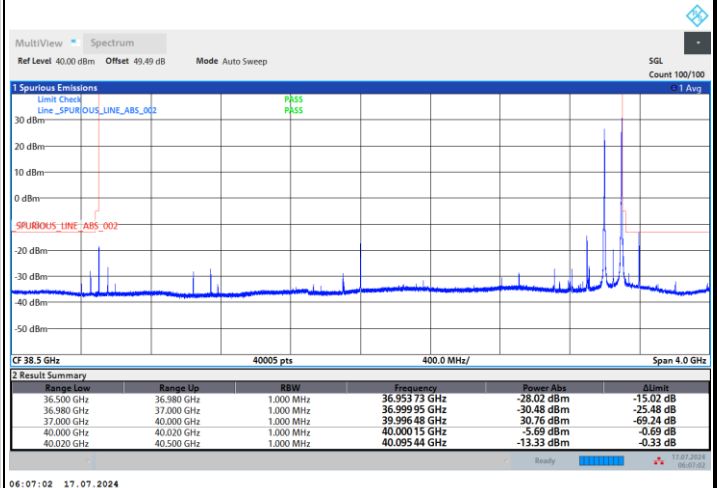
DFT-s-OFDM Module 1

NR Band n260 / 200MHz / 64QAM

Lowest Band Edge / 1 RB

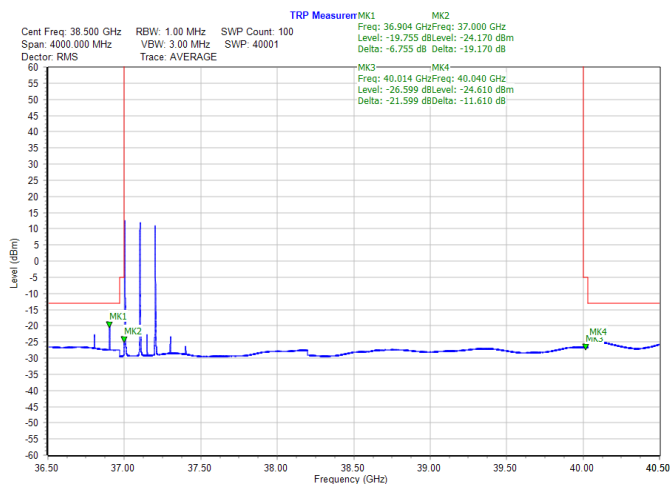


Highest Band Edge / 1 RB

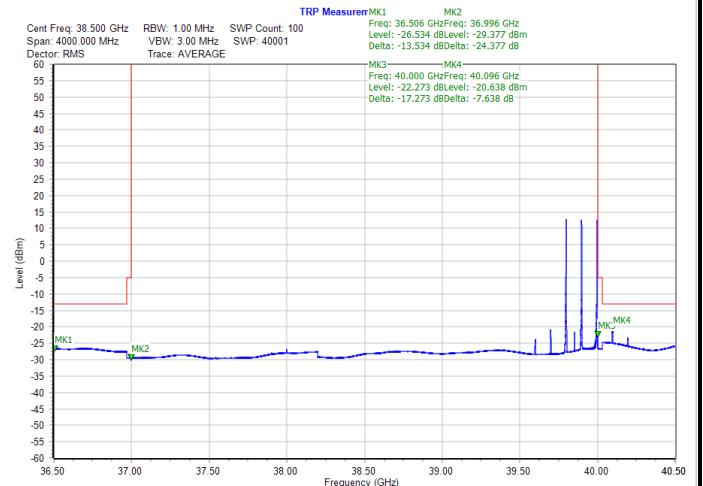


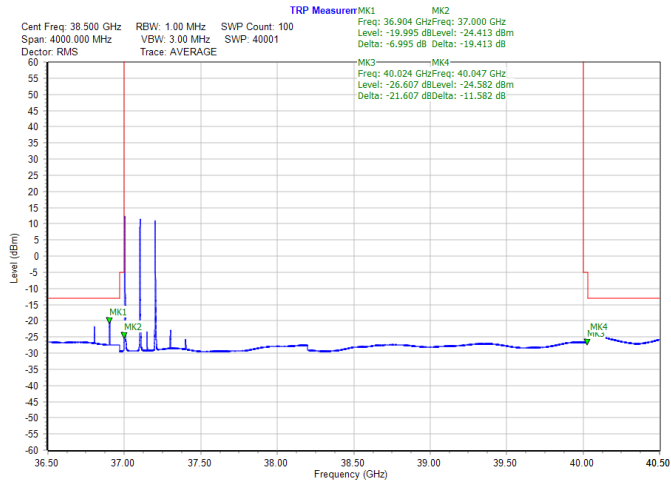
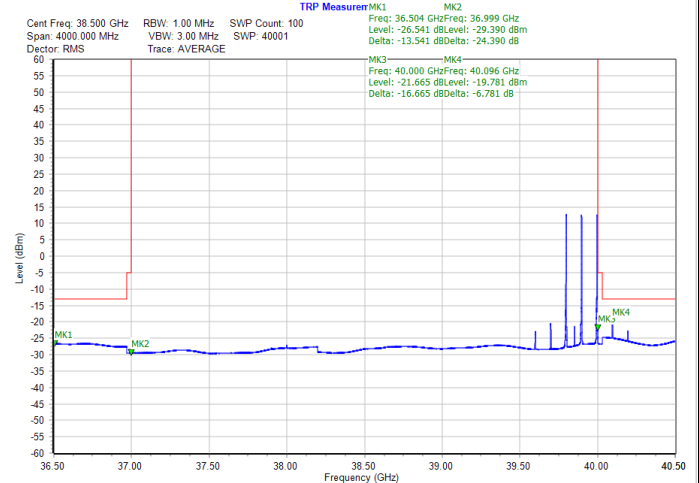
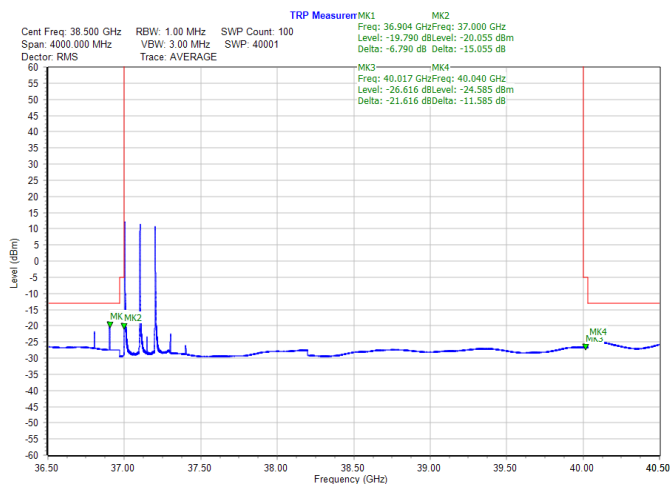
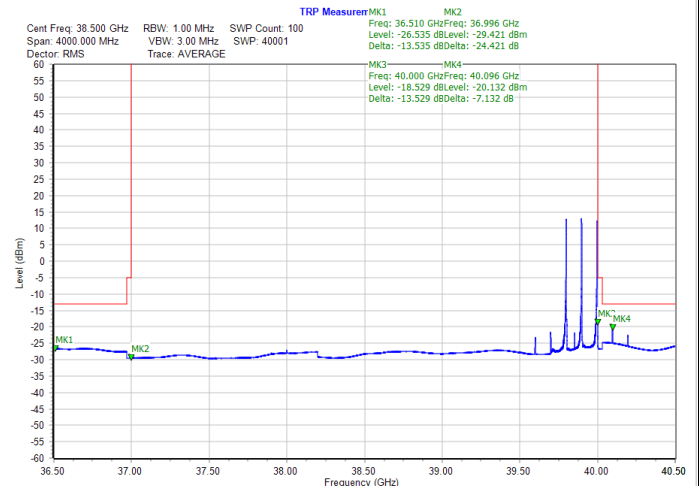
NR Band n260 / 300MHz / QPSK

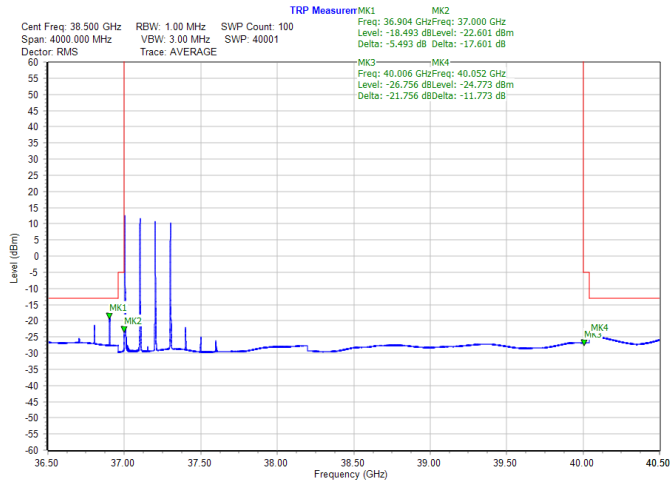
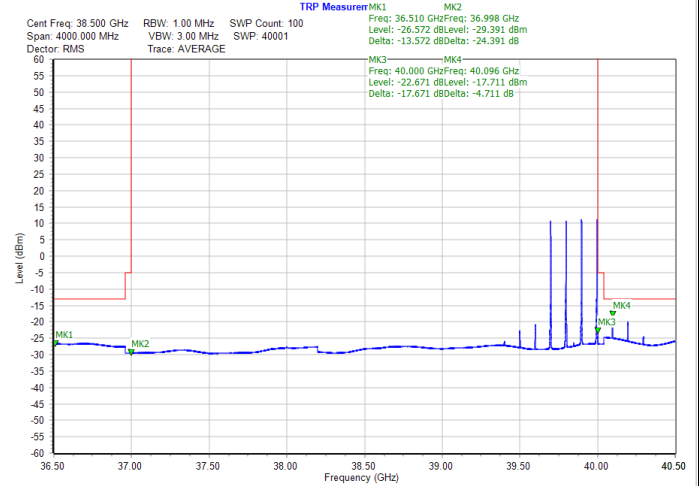
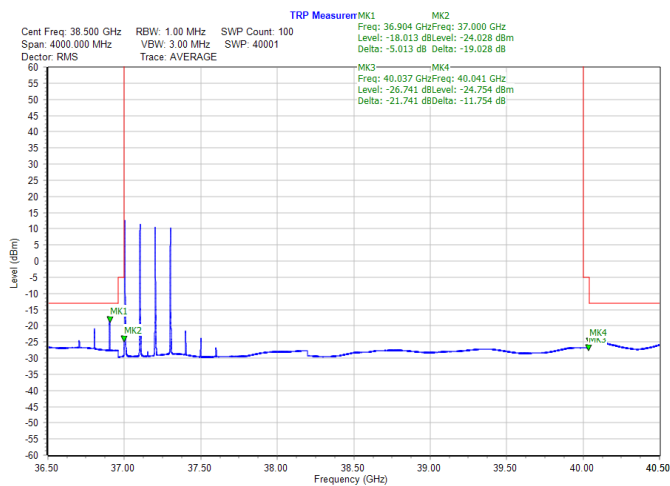
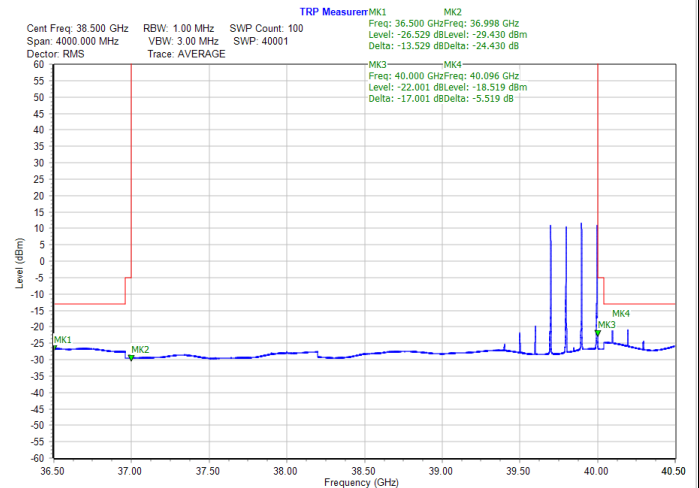
Lowest Band Edge / 1 RB

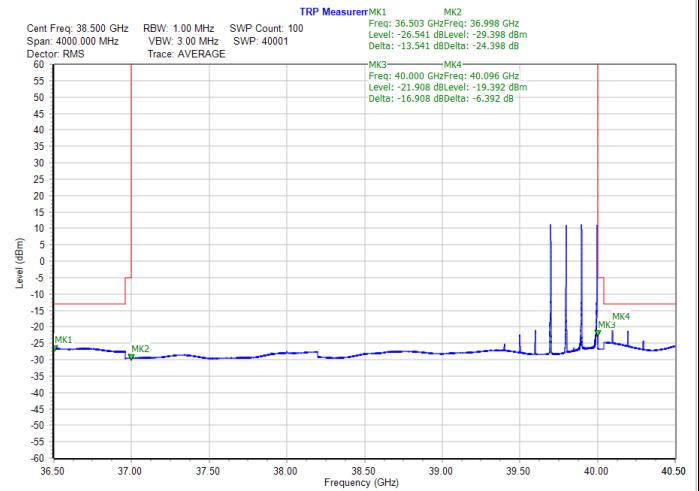
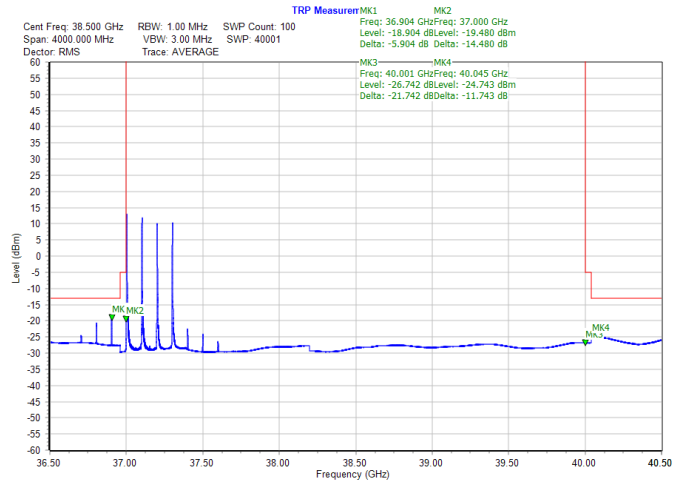


Highest Band Edge / 1 RB



**DFT-s-OFDM Module 1****NR Band n260 / 300MHz / 16QAM****Lowest Band Edge / 1 RB****Highest Band Edge / 1 RB****NR Band n260 / 300MHz / 64QAM****Lowest Band Edge / 1 RB****Highest Band Edge / 1 RB**

**DFT-s-OFDM Module 1****NR Band n260 / 400MHz / QPSK****Lowest Band Edge / 1 RB****Highest Band Edge / 1 RB****NR Band n260 / 400MHz / 16QAM****Lowest Band Edge / 1 RB****Highest Band Edge / 1 RB**

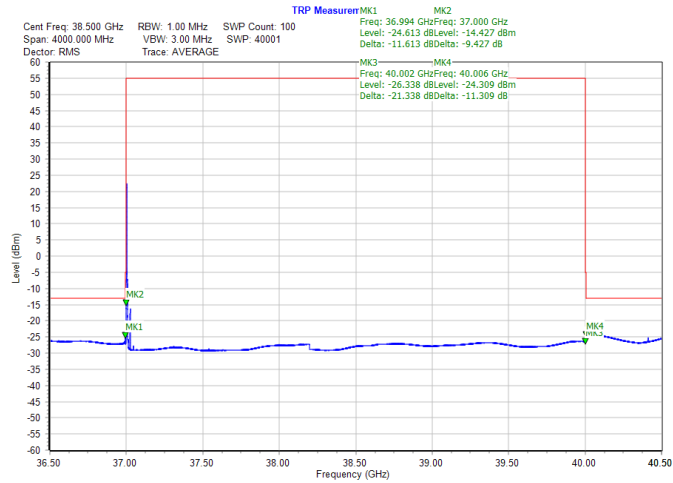
**DFT-s-OFDM Module 1****NR Band n260 / 400MHz / 64QAM****Lowest Band Edge / 1 RB****Highest Band Edge / 1 RB**



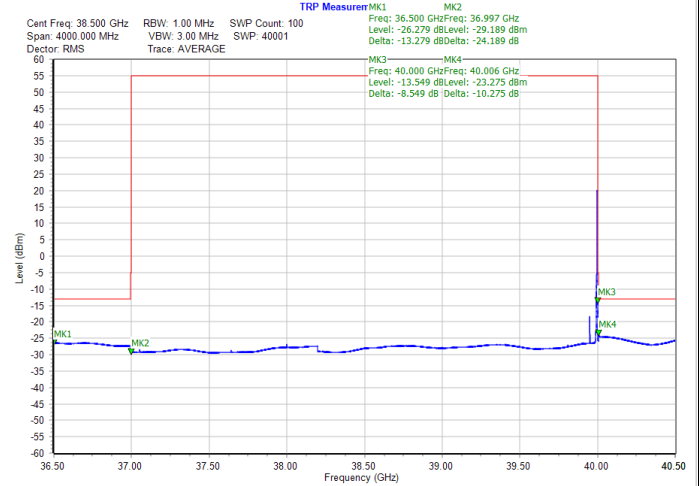
CP-OFDM Module 1

NR Band n260 / 50MHz / QPSK

Lowest Band Edge / 1 RB

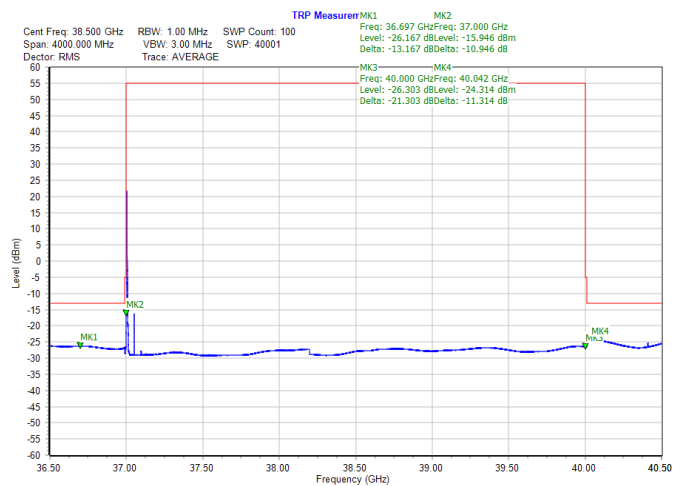


Highest Band Edge / 1 RB

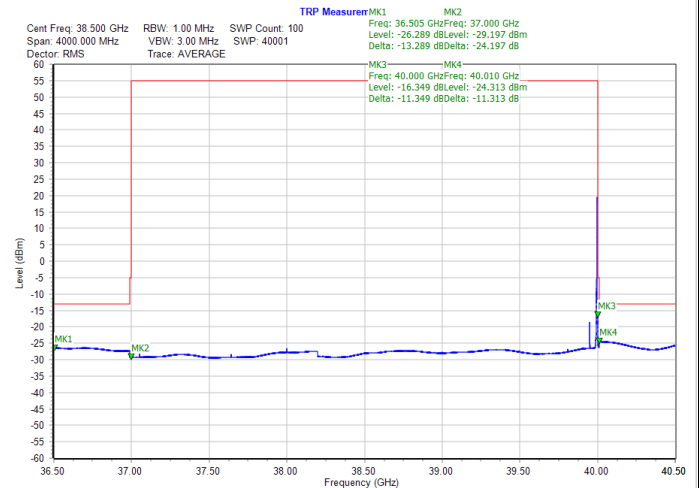


NR Band n260 / 100MHz / QPSK

Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB

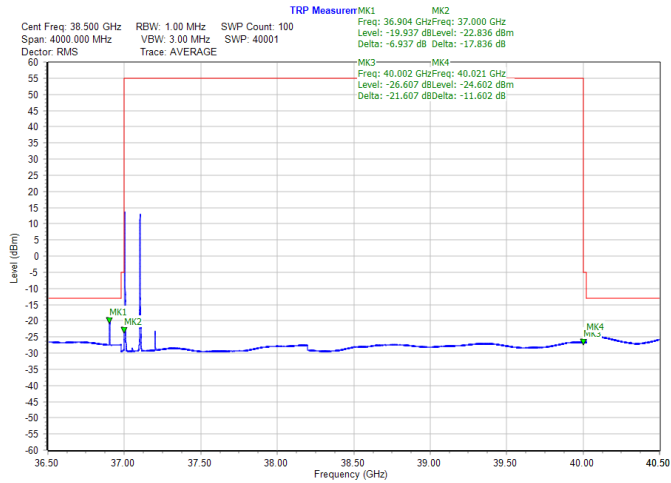




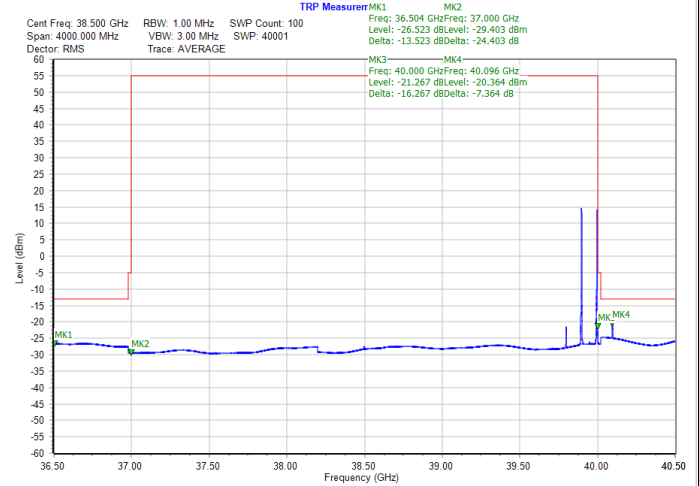
CP-OFDM Module 1

NR Band n260 / 200MHz / QPSK

Lowest Band Edge / 1 RB

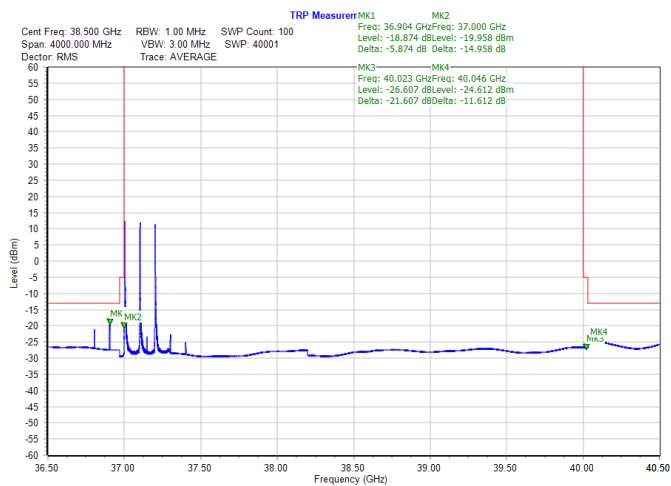


Highest Band Edge / 1 RB

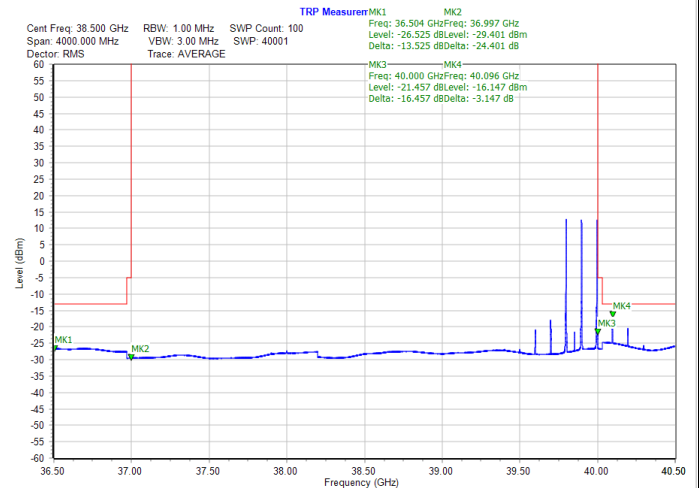


NR Band n260 / 300MHz / QPSK

Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB

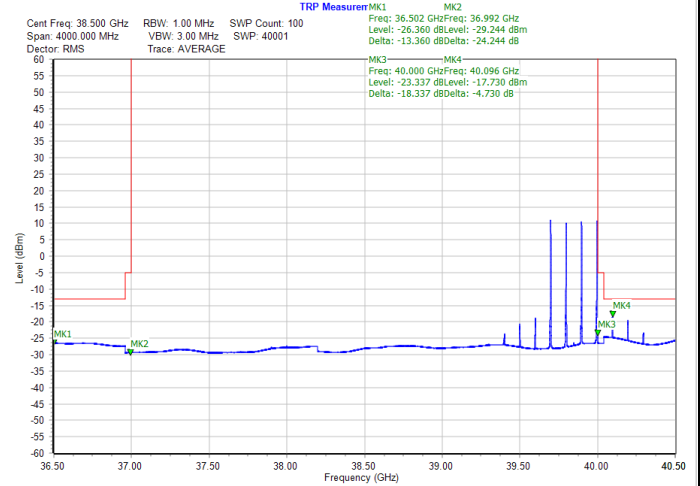
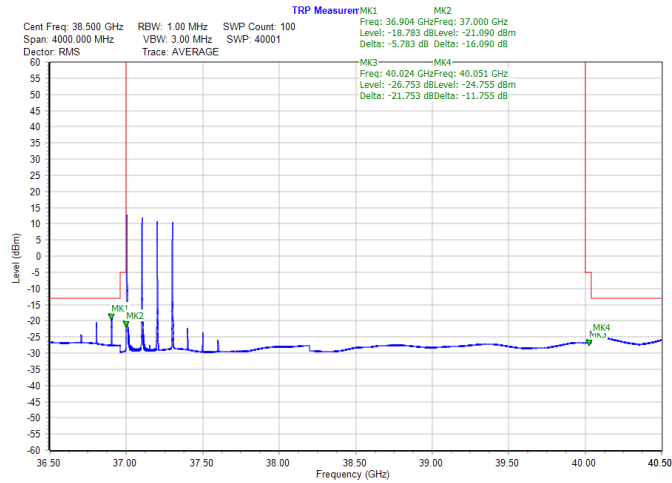


CP-OFDM Module 1

NR Band n260 / 400MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

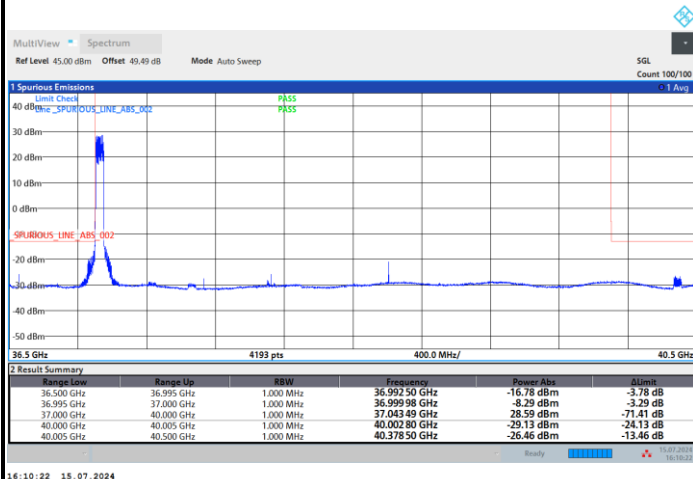




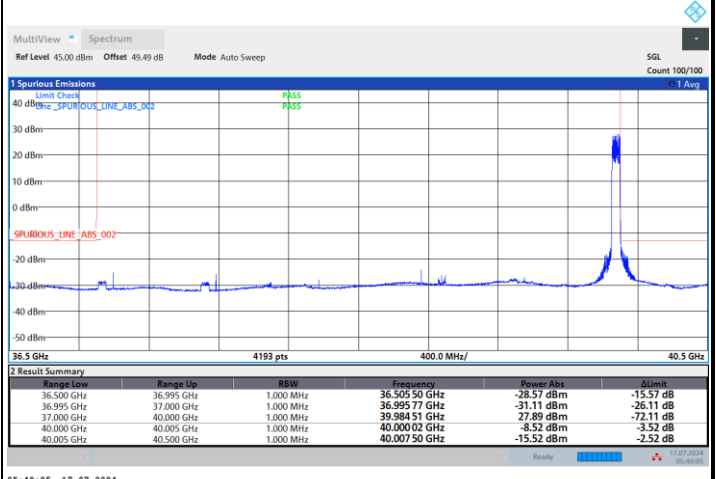
DFT-s-OFDM Module 1

NR Band n260 / 50MHz / QPSK

Lowest Band Edge / Full RB

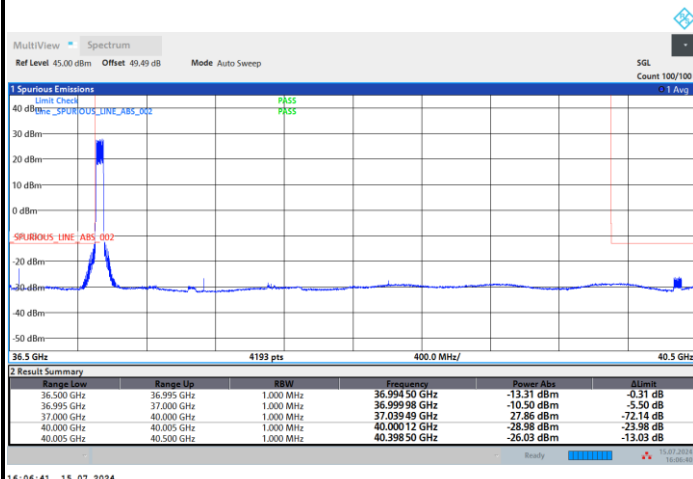


Highest Band Edge / Full RB

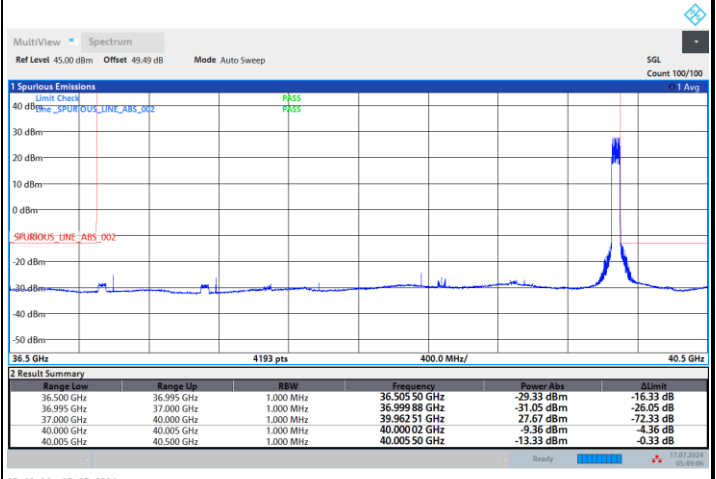


NR Band n260 / 50MHz / 16QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

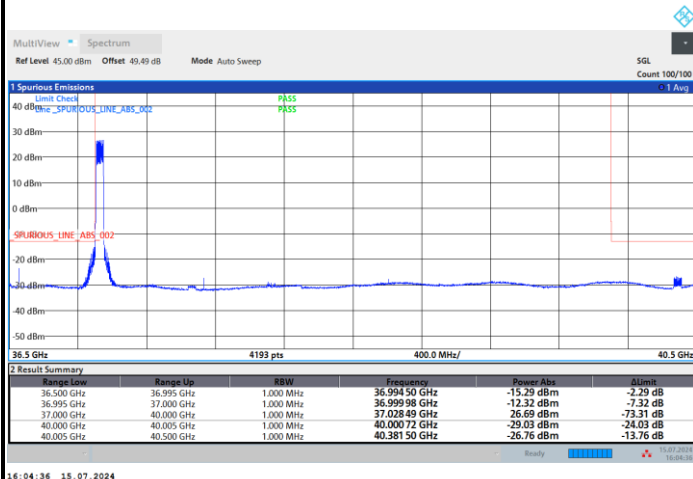




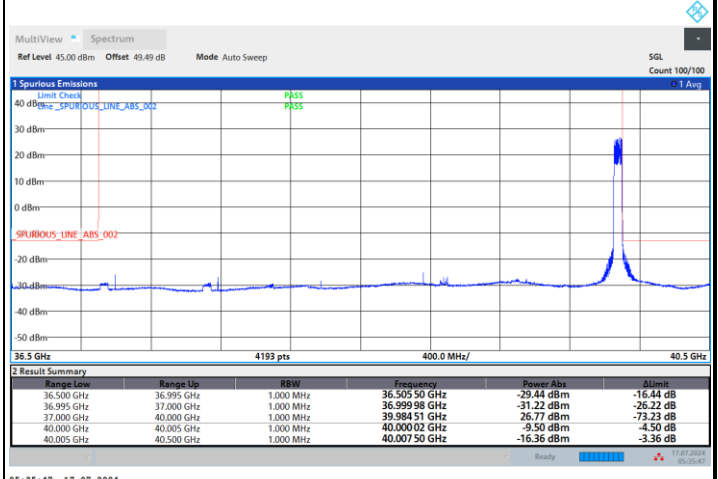
DFT-s-OFDM Module 1

NR Band n260 / 50MHz / 64QAM

Lowest Band Edge / Full RB

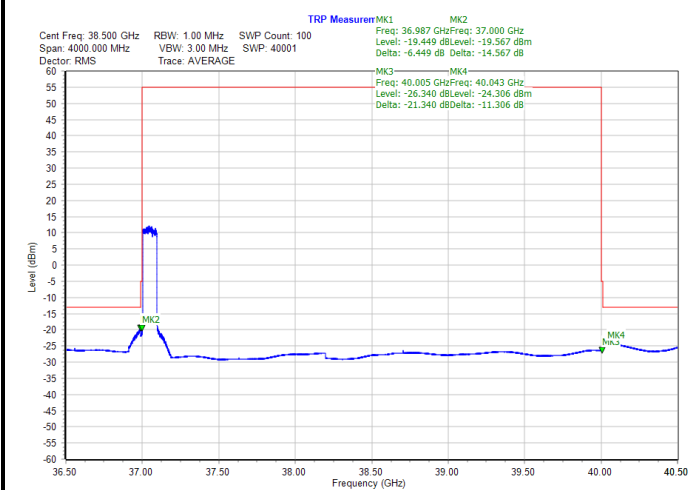


Highest Band Edge / Full RB

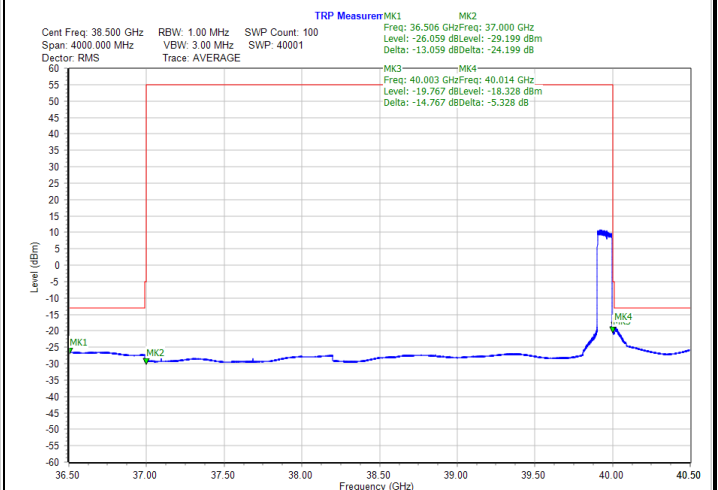


NR Band n260 / 100MHz / QPSK

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

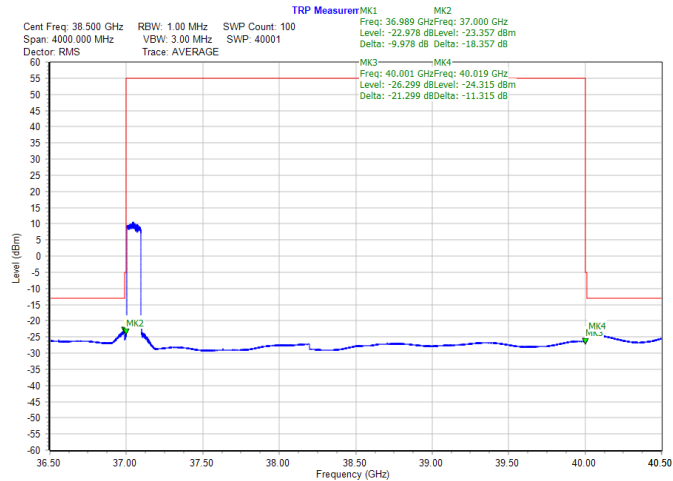




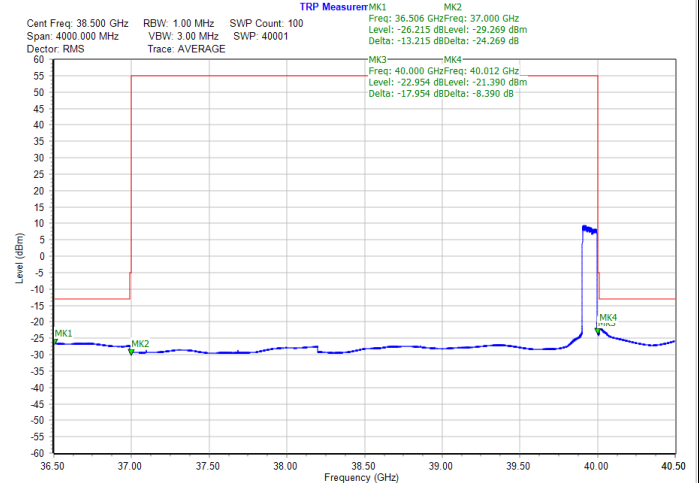
DFT-s-OFDM Module 1

NR Band n260 / 100MHz / 16QAM

Lowest Band Edge / Full RB

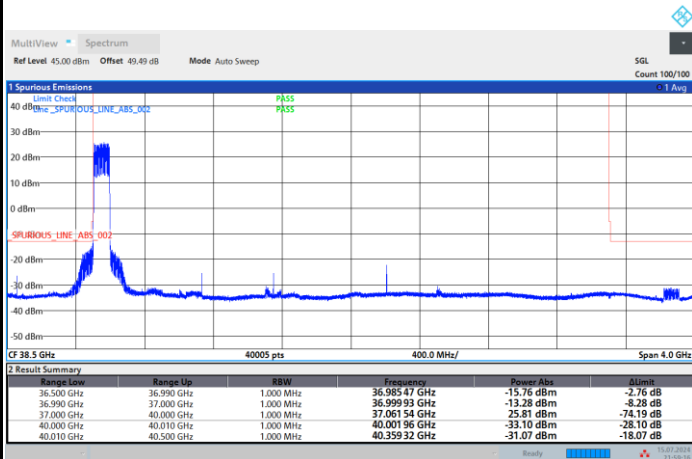


Highest Band Edge / Full RB

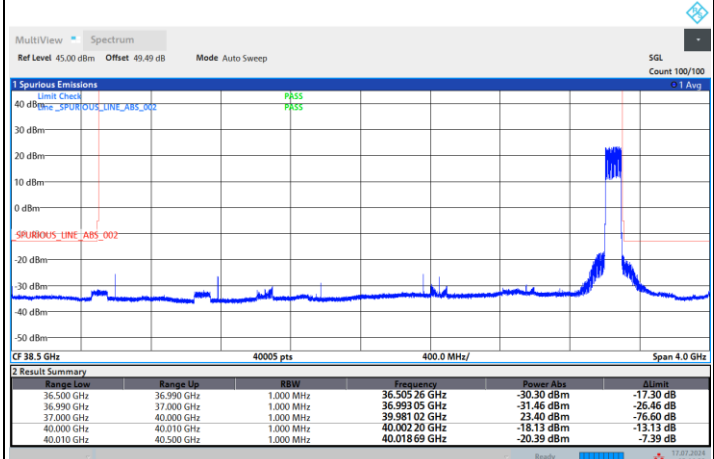


NR Band n260 / 100MHz / 64QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

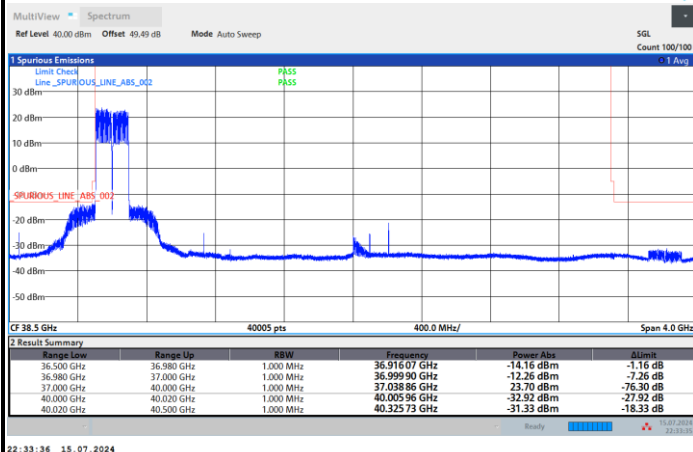




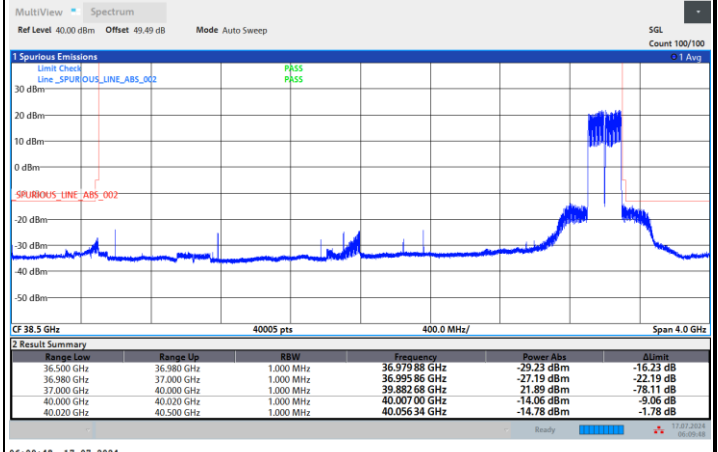
DFT-s-OFDM Module 1

NR Band n260 / 200MHz / QPSK

Lowest Band Edge / Full RB



Highest Band Edge / Full RB



NR Band n260 / 200MHz / 16QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

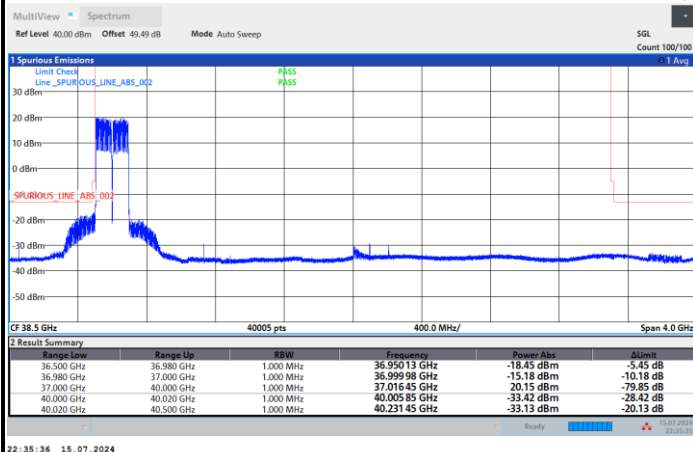




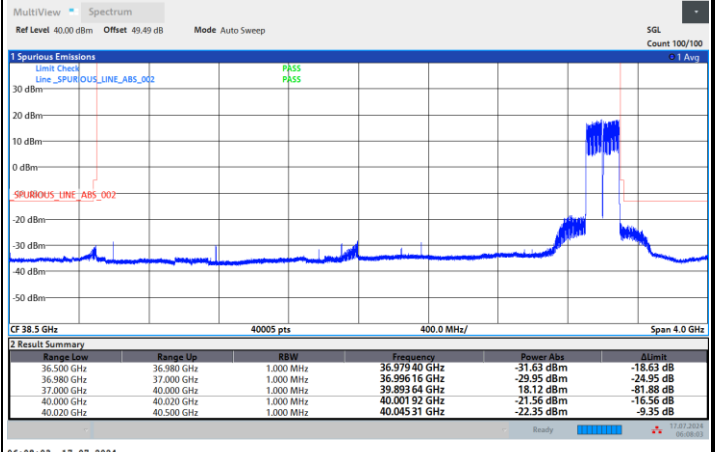
DFT-s-OFDM Module 1

NR Band n260 / 200MHz / 64QAM

Lowest Band Edge / Full RB

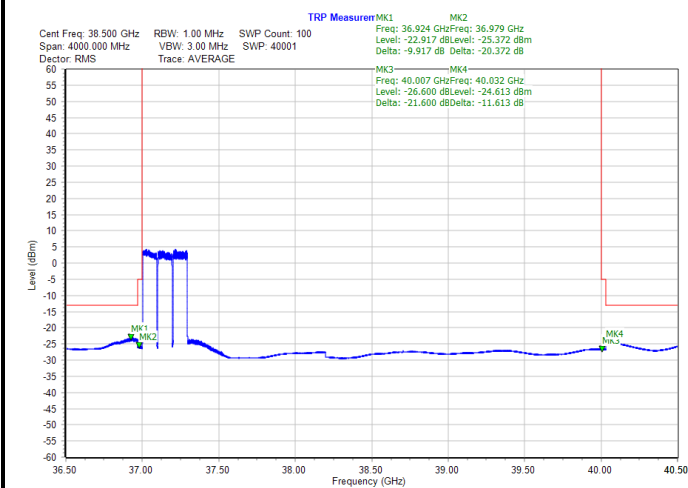


Highest Band Edge / Full RB

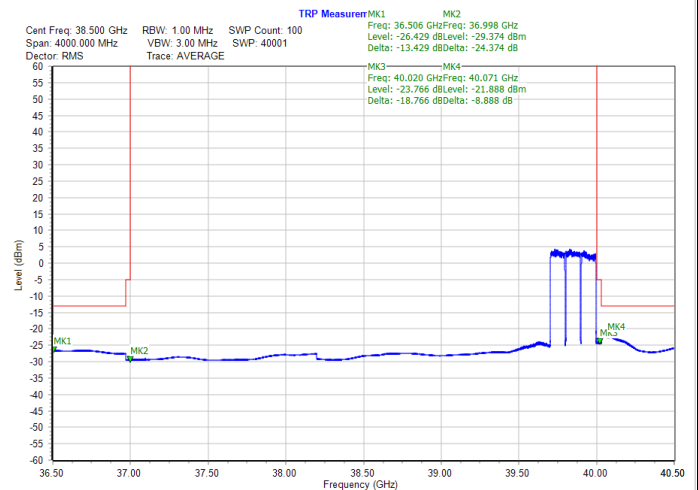


NR Band n260 / 300MHz / QPSK

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

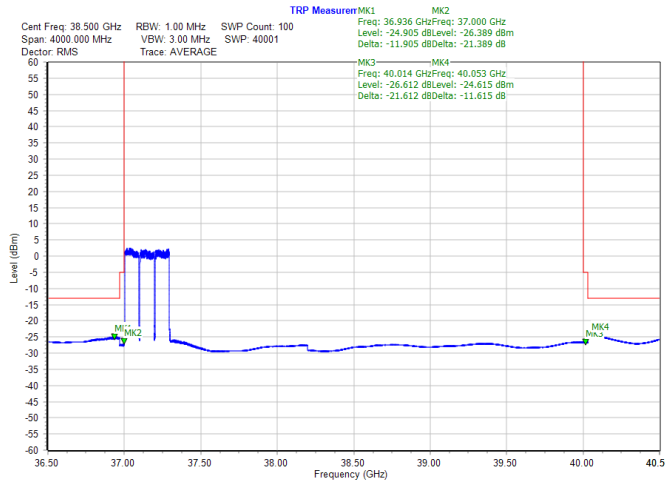




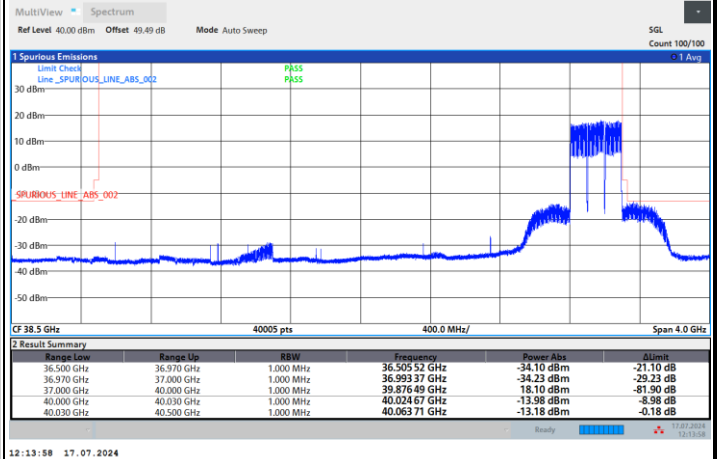
DFT-s-OFDM Module 1

NR Band n260 / 300MHz / 16QAM

Lowest Band Edge / Full RB

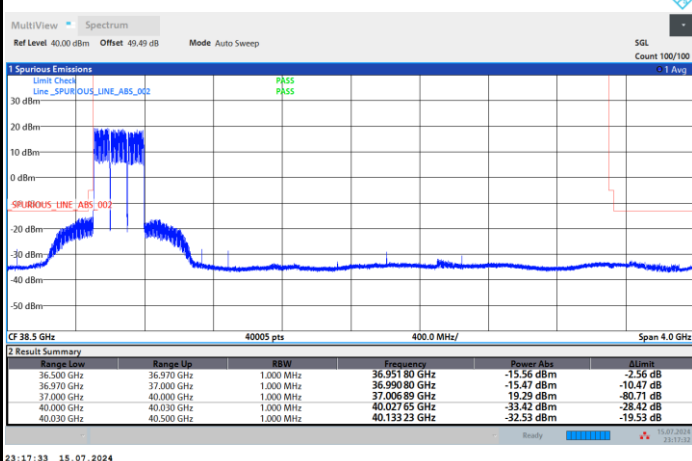


Highest Band Edge / Full RB



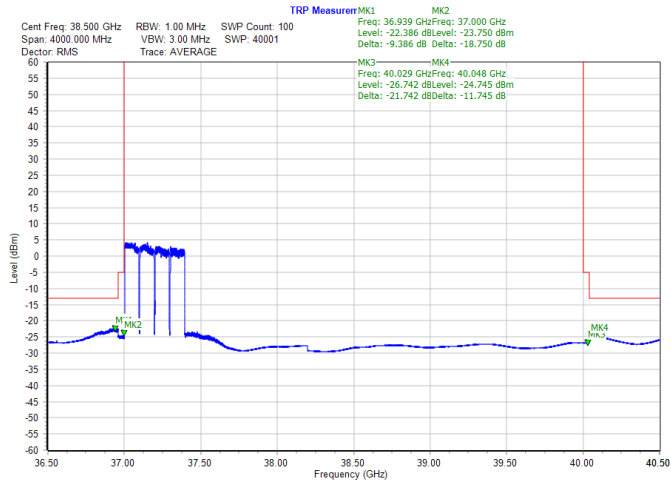
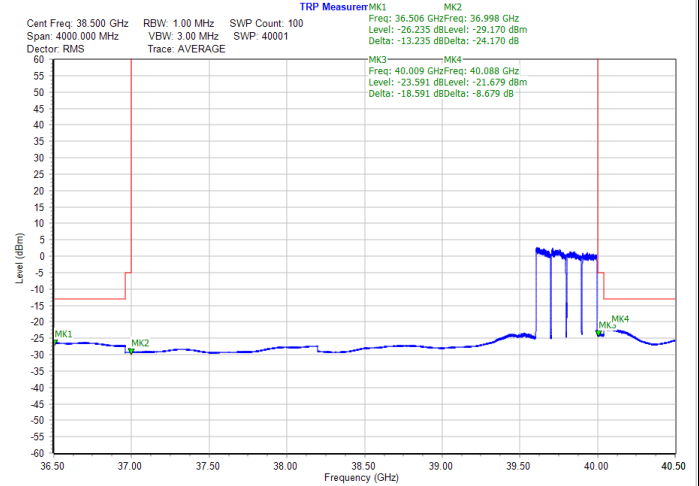
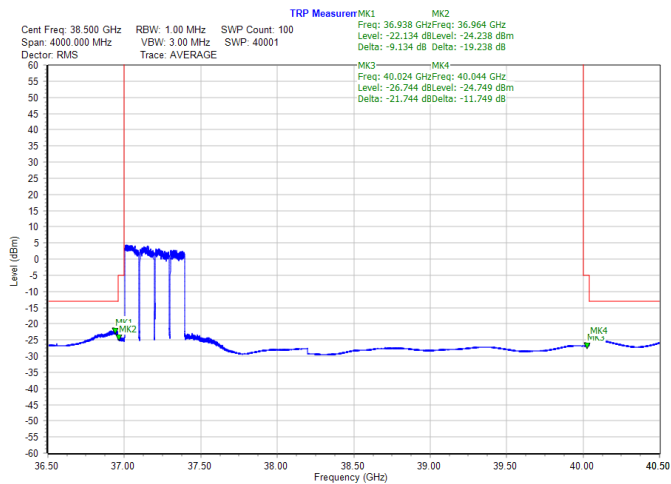
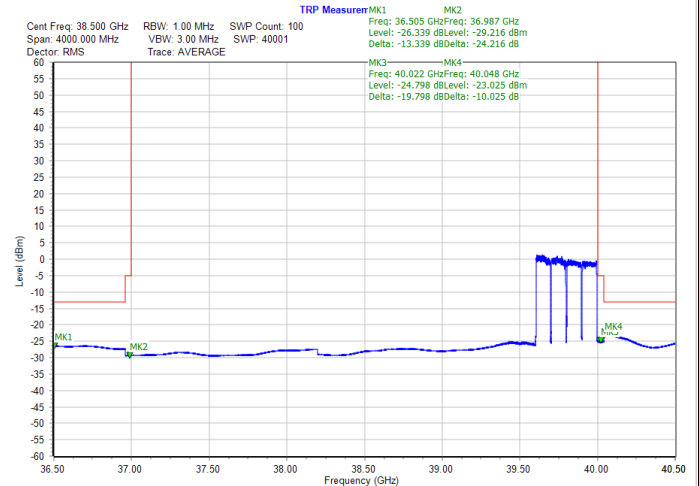
NR Band n260 / 300MHz / 64QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB



**DFT-s-OFDM Module 1****NR Band n260 / 400MHz / QPSK****Lowest Band Edge / Full RB****Highest Band Edge / Full RB****NR Band n260 / 400MHz / 16QAM****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**

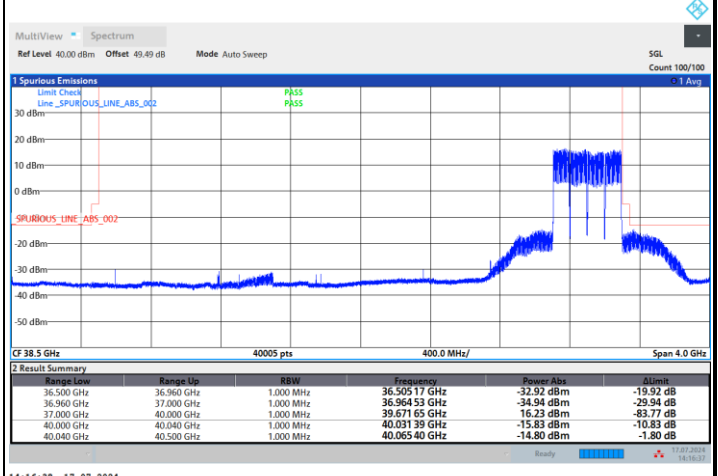
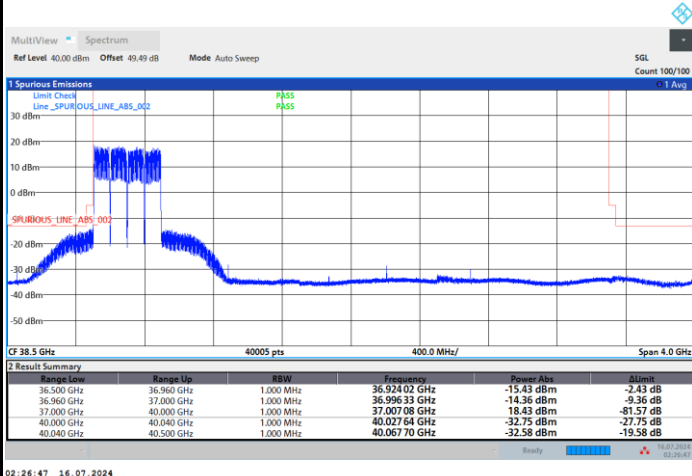


DFT-s-OFDM Module 1

NR Band n260 / 400MHz / 64QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

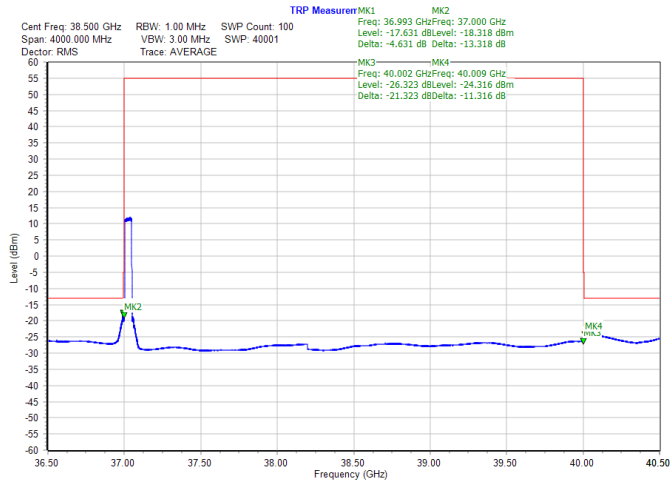




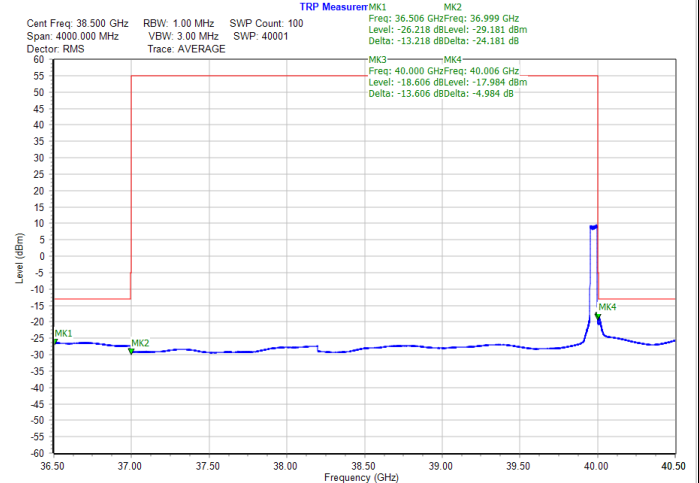
CP-OFDM Module 1

NR Band n260 / 50MHz / QPSK

Lowest Band Edge / Full RB

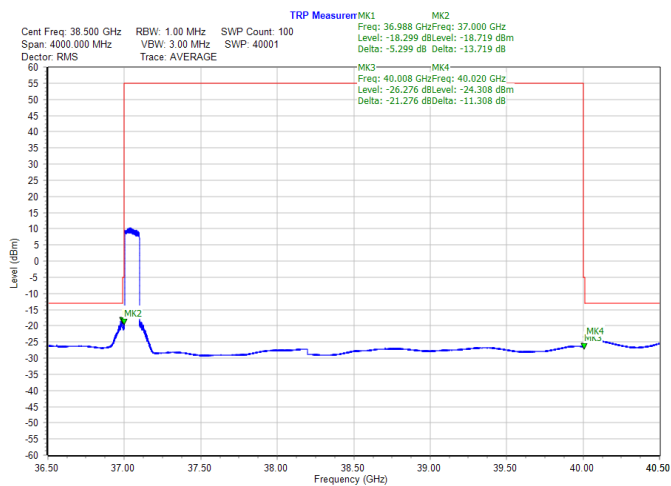


Highest Band Edge / Full RB

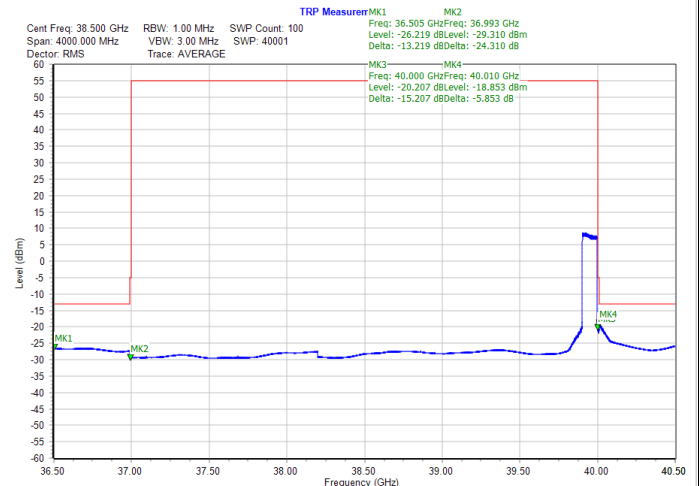


NR Band n260 / 100MHz / QPSK

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

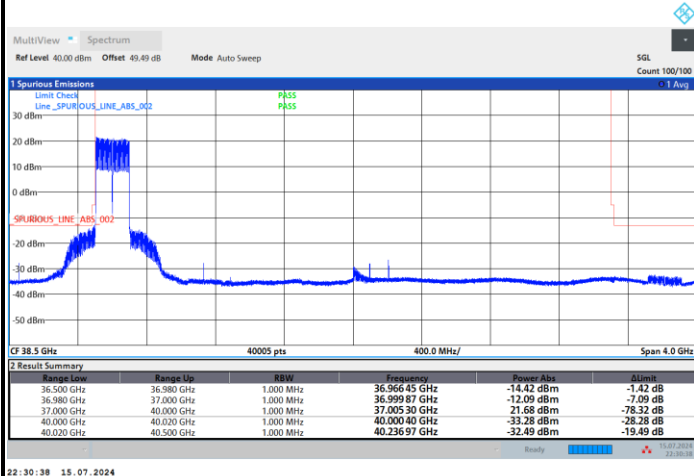




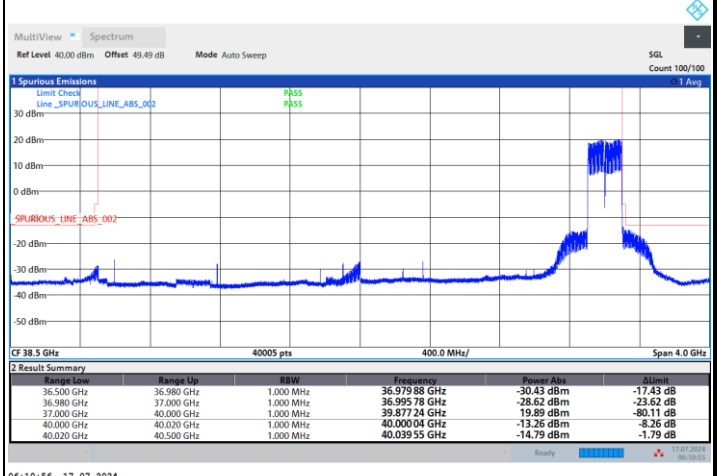
CP-OFDM Module 1

NR Band n260 / 200MHz / QPSK

Lowest Band Edge / Full RB

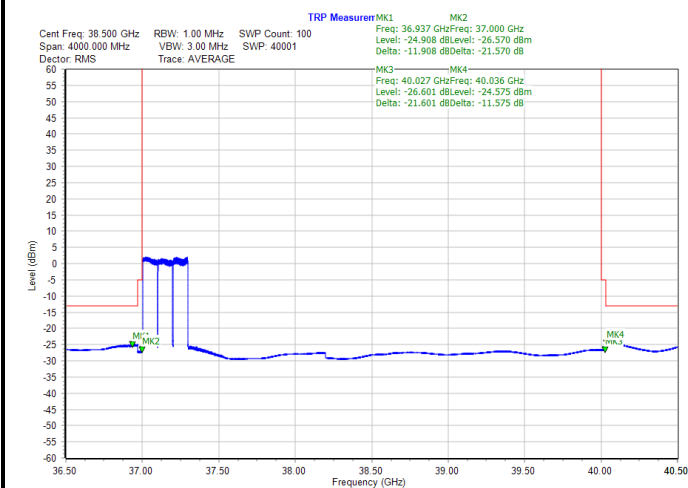


Highest Band Edge / Full RB

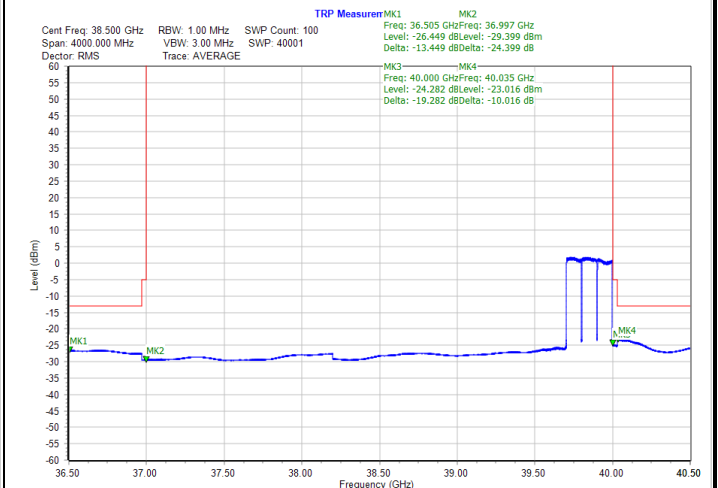


NR Band n260 / 300MHz / QPSK

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

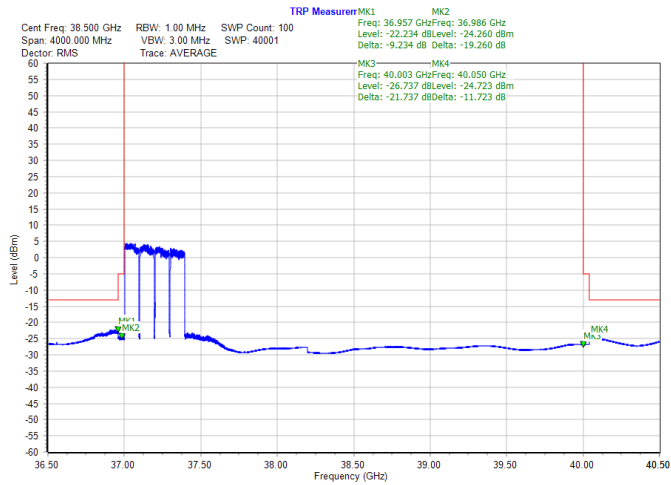




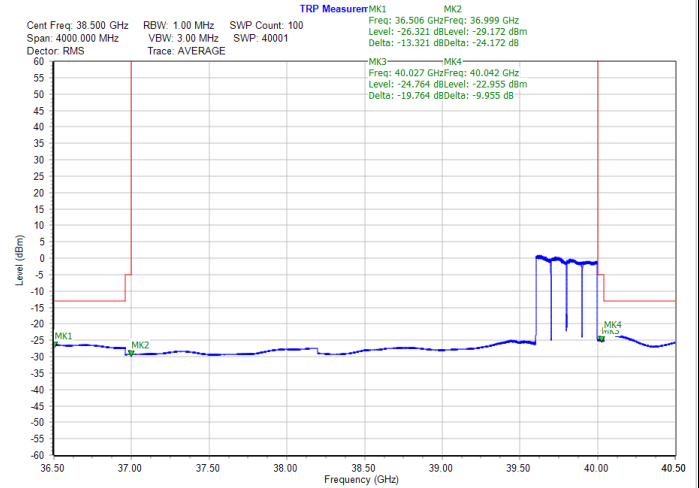
CP-OFDM Module 1

NR Band n260 / 400MHz / QPSK

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

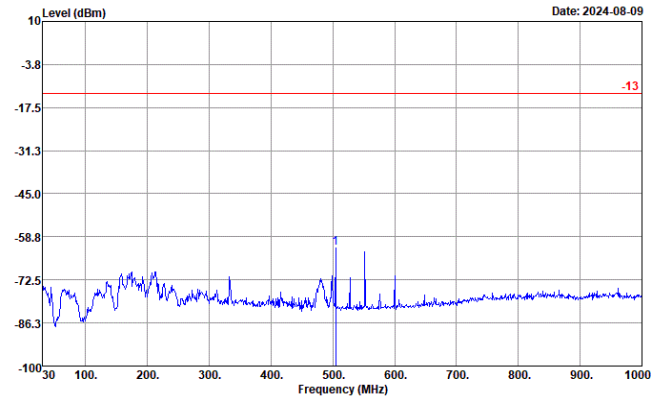




Spurious Emission

NR Band n260 (30MHz-1GHz)

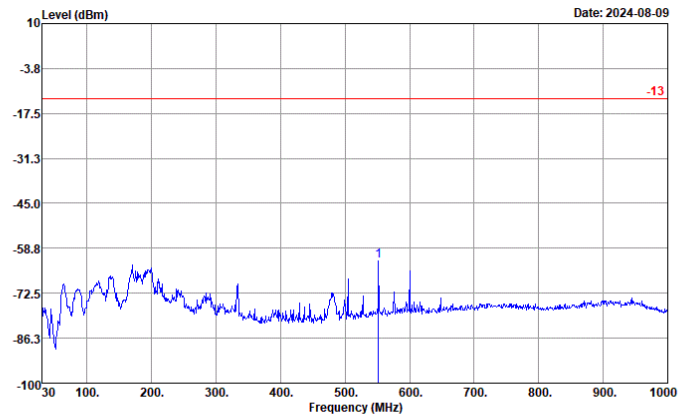
Horizontal



Site : 03CH10-HY
Condition : -13 EIRP_WO HORIZONTAL
Project : 470412
: n260

Freq	Level	Over	Limit
		Limit	Line
MHz	dBm	dB	dBm
1	504.33	-62.34	-49.34 -13.00

Vertical



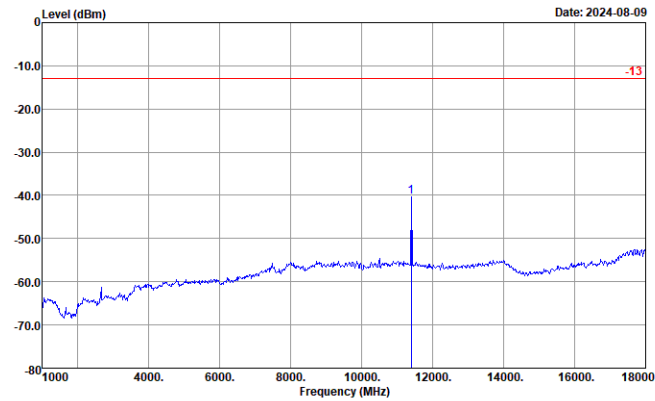
Site : 03CH10-HY
Condition : -13 EIRP_WO VERTICAL
Project : 470412
: n260

Freq	Level	Over	Limit
		Limit	Line
MHz	dBm	dB	dBm
1	551.86	-62.68	-49.68 -13.00



NR Band n260 (1GHz-18GHz)

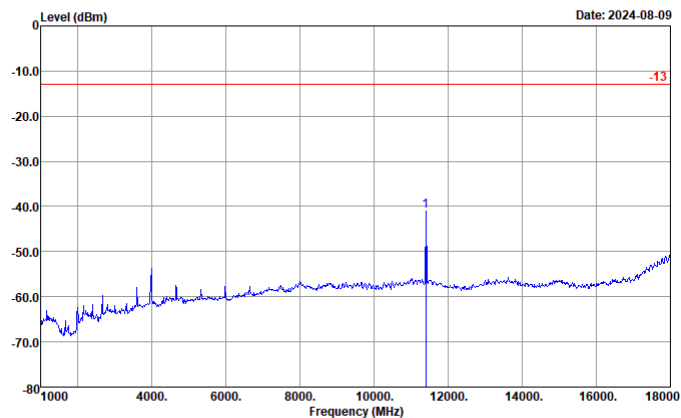
Horizontal



Site : 03CH10-HY
Condition : -13 EIRP_WO HORIZONTAL
Project : 470412
: n260

	Freq	Level	Over	Limit	Read	LISN	Cable	Preamp	A/Pos	T/Pos	Remark
	MHz	dBm	Limit	Line	Level	Factor	Loss	Factor			
			dB	dBm	dBm	dB	dB	dB	cm	deg	
1	11404.00	-40.31	-27.31	-13.00	20.03	0.00	0.00	60.34	---	---	Peak

Vertical



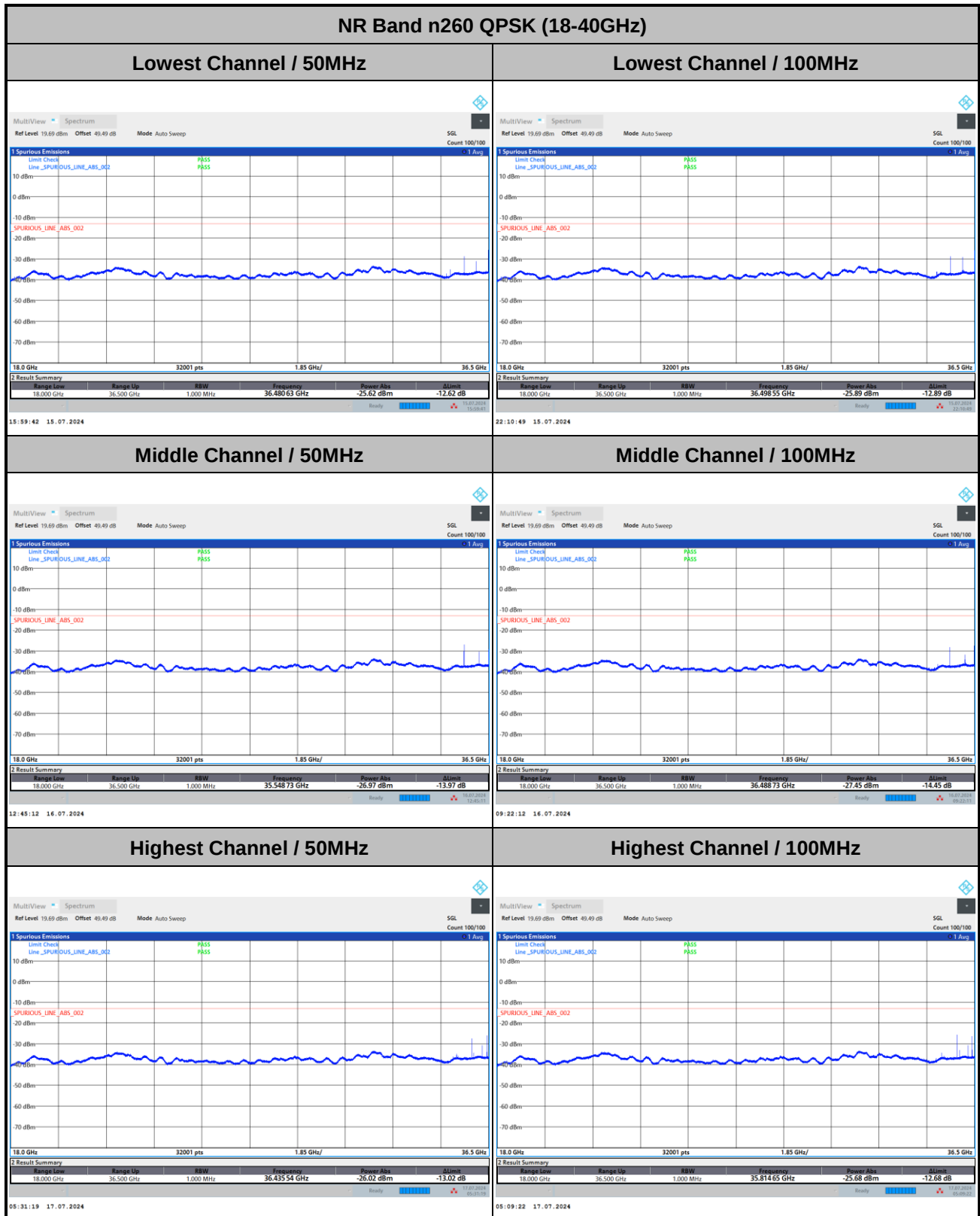
Site : 03CH10-HY
Condition : -13 EIRP_WO VERTICAL
Project : 470412
: n260

	Freq	Level	Over	Limit	Read	LISN	Cable	Preamp	A/Pos	T/Pos	Remark
	MHz	dBm	Limit	Line	Level	Factor	Loss	Factor			
			dB	dBm	dBm	dB	dB	dB	cm	deg	
1	11404.00	-41.05	-28.05	-13.00	-45.39	64.68	0.00	60.34	---	---	Peak



Spurious emission between 18GHz to 40GHz worst case plot is reported as following.

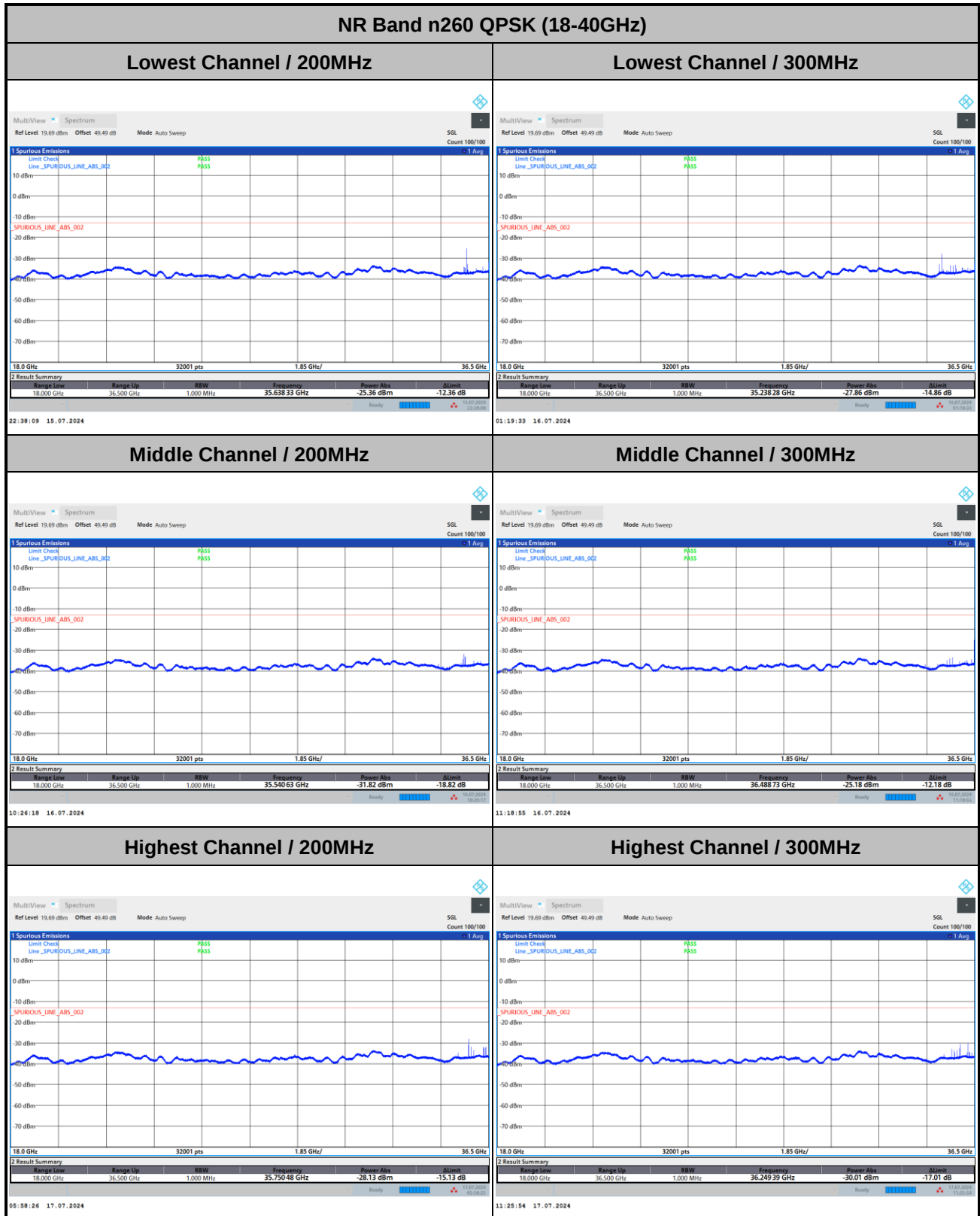
DFT-s-OFDM Module 1



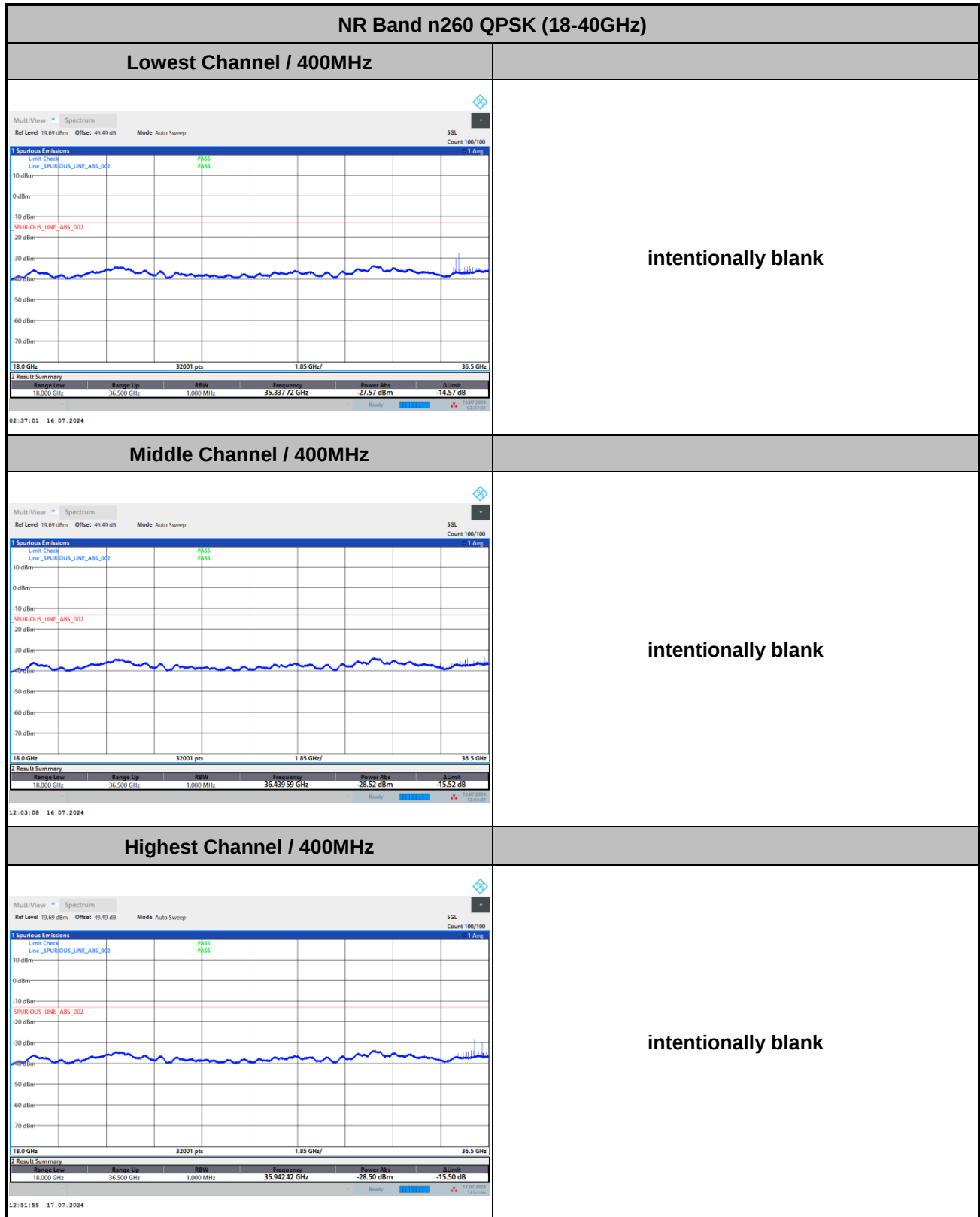
Remark: In band and out of band frequencies are omitted.



DFT-s-OFDM Module 1



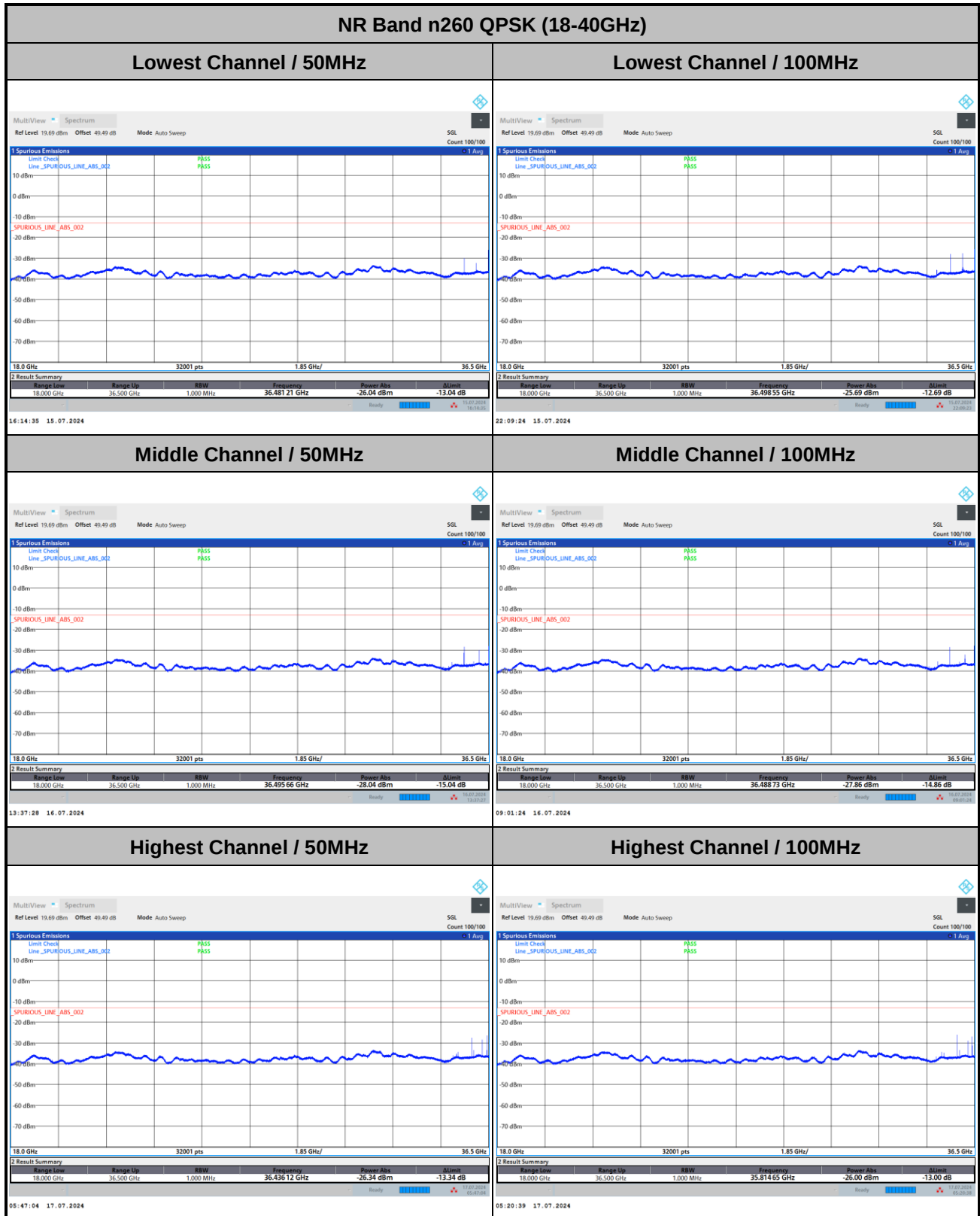
Remark: In band and out of band frequencies are omitted.

**DFT-s-OFDM Module 1**

Remark: In band and out of band frequencies are omitted.



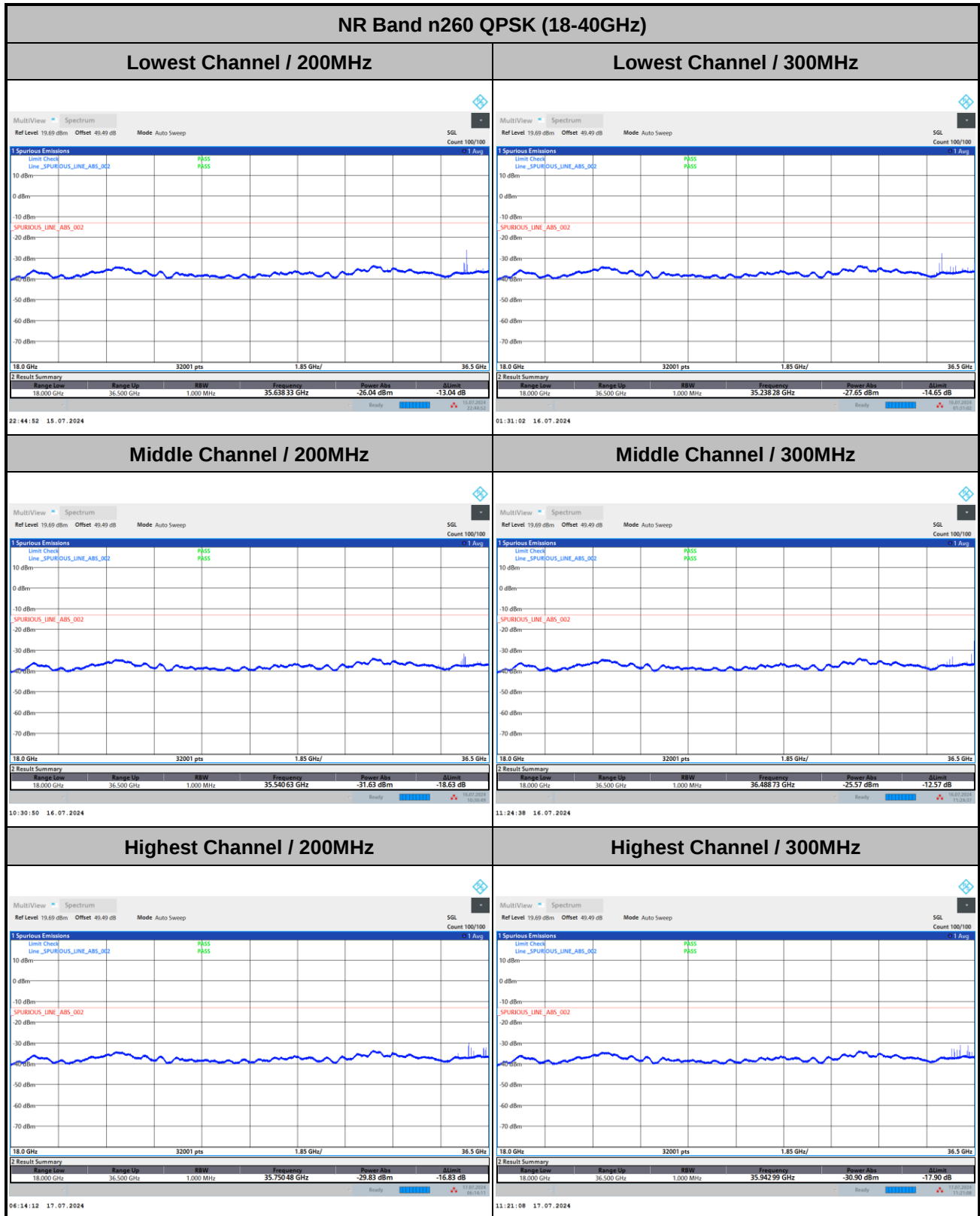
CP-OFDM Module 1



Remark: In band and out of band frequencies are omitted.



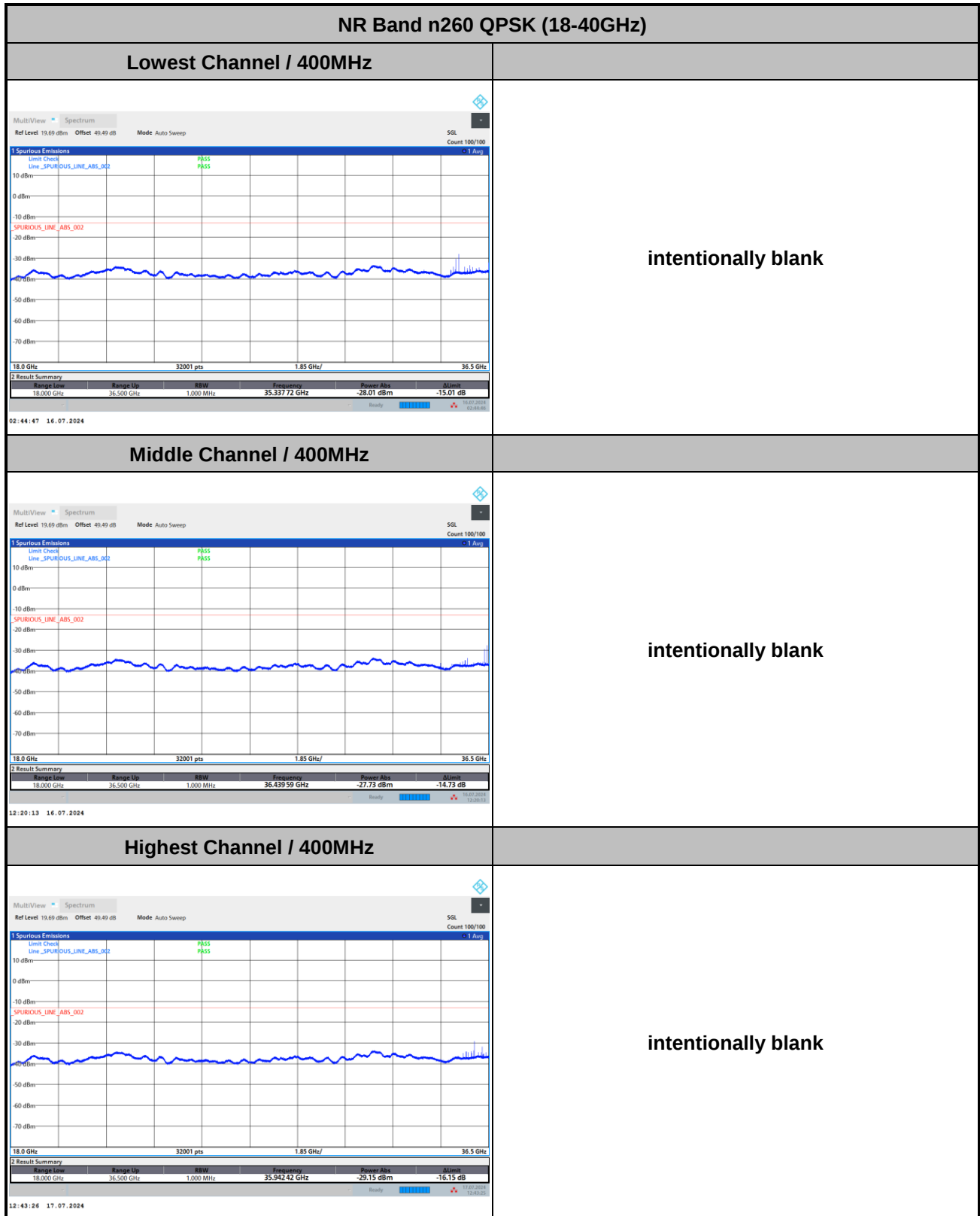
CP-OFDM Module 1



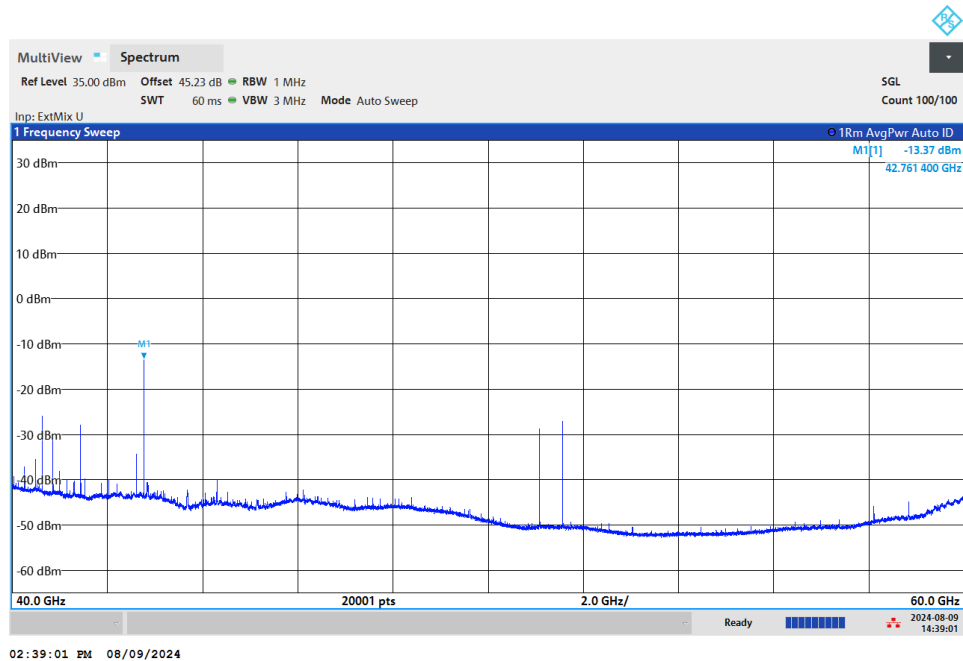
Remark: In band and out of band frequencies are omitted.



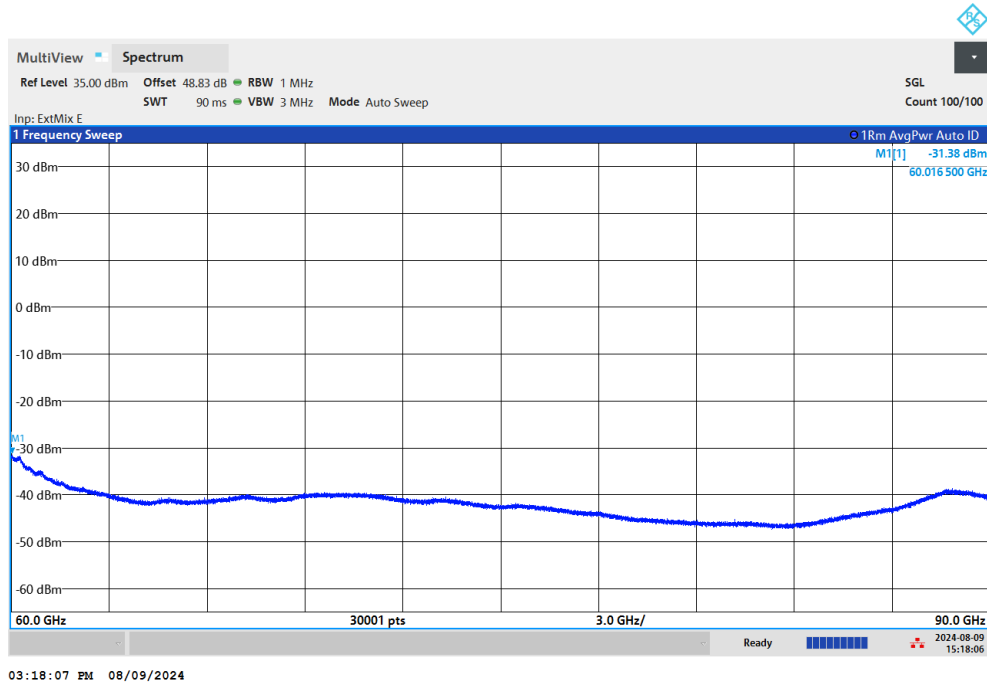
CP-OFDM Module 1



Remark: In band and out of band frequencies are omitted.

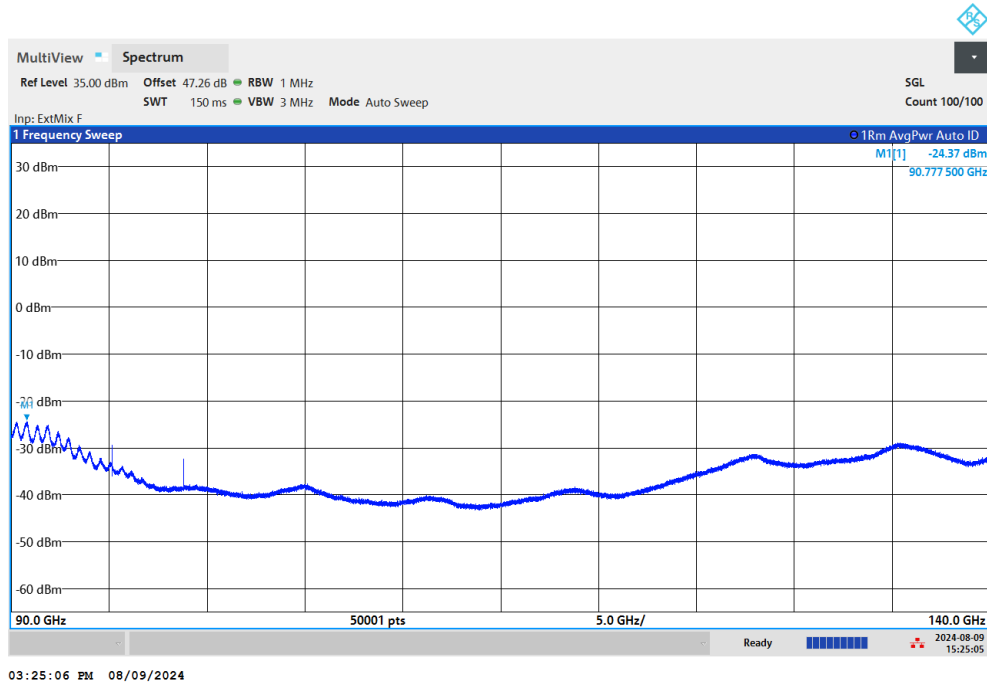
NR Band n260
(40GHz-60GHz)


$$\begin{aligned} \text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 \\ &= 42.6 + 0.43 + 107 + 20\log(1) - 104.8 = 45.23(\text{dB}) \end{aligned}$$

NR Band n260
(60GHz-90GHz)


$$\text{Offset} = \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8$$

$$= 46.2 + 0.43 + 107 + 20\log(1) - 104.8 = 48.83 \text{ (dB)}$$

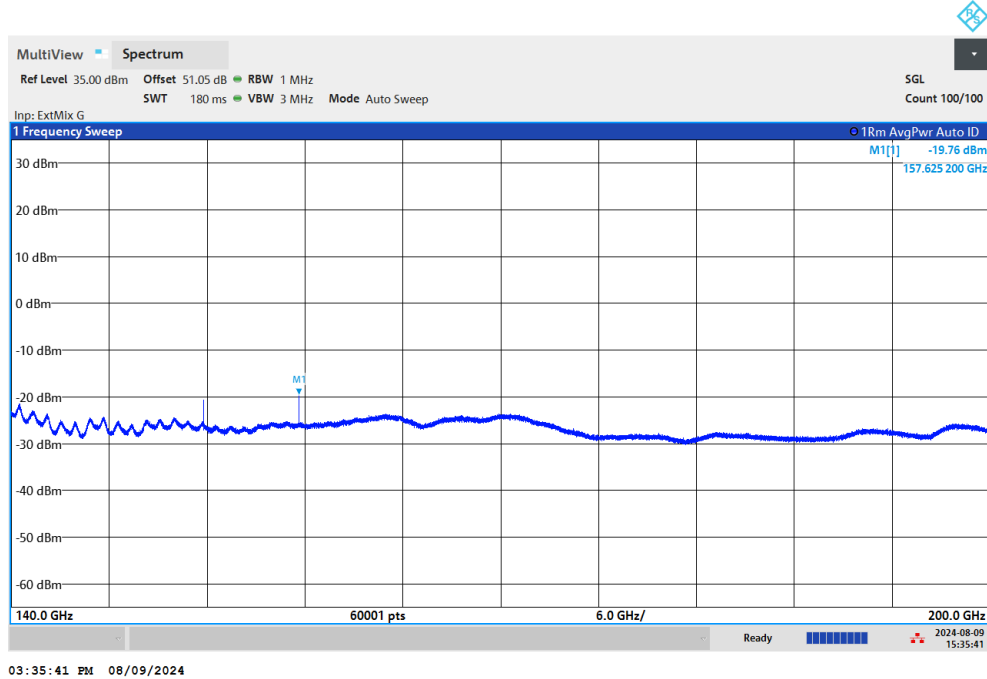
NR Band n260
(90GHz-140GHz)


$$\text{Offset} = \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8$$

$$= 50.65 + 0.43 + 107 + 20\log(0.5) - 104.8 = 47.26 \text{ (dB)}$$

NR Band n260

(140GHz-200GHz)



$$\begin{aligned} \text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 \\ &= 54.44 + 0.43 + 107 + 20\log(0.5) - 104.8 = 51.05(\text{dB}) \end{aligned}$$

Frequency Stability

Test Conditions		NR Band n260 / Middle Channel			Limit
Temperature (°C)	Voltage (Volt)	CW tone			Note 2.
		Frequency (GHz)	Deviation (kHz)	Deviation (ppm)	Result
50	Normal Voltage	38.5000639	-106.900	2.777	Pass
40	Normal Voltage	38.499955	2.000	0.052	
30	Normal Voltage	38.4999251	31.900	0.829	
20(Ref.)	Normal Voltage	38.499957	0.000	0.000	
10	Normal Voltage	38.4999161	40.900	1.062	
0	Normal Voltage	38.4999181	38.900	1.010	
-10	Normal Voltage	38.4999381	18.900	0.491	
-20	Normal Voltage	38.499964	-7.000	0.182	
-30	Normal Voltage	38.500009	-52.000	1.351	
20	Maximum Voltage	38.4999431	13.900	0.361	
20	Normal Voltage	38.4999271	29.900	0.777	
20	Battery End Point	38.4999391	17.900	0.465	

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 n261 AG0+1

Occupied Bandwidth

Mode	DFT-s-OFDM Module 1 NR Band n261 : 99%OBW(MHz)								
BW	50MHz			100MHz			200MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	44.82	45.45	44.50	90.14	90.28	90.10	190.95	190.72	191.28
Middle CH	43.78	43.89	43.96	91.52	91.67	91.45	191.08	190.45	191.13
Highest CH	44.04	44.11	44.19	90.57	90.54	90.55	188.96	189.23	189.22

Mode	DFT-s-OFDM Module 1 NR Band n261 : 99%OBW(MHz)					
BW	300MHz			400MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	288.75	289.16	289.02	388.51	388.17	388.64
Middle CH	289.34	289.07	289.21	388.65	387.88	388.12
Highest CH	289.29	288.89	289.06	388.99	389.38	389.18

Mode	CP-OFDM Module 1 NR Band n261 : 99%OBW(MHz)		
BW	50MHz	100MHz	200MHz
Mod.	QPSK	QPSK	QPSK
Lowest CH	44.14	94.67	194.07
Middle CH	43.94	94.18	192.61
Highest CH	44.17	94.51	192.90

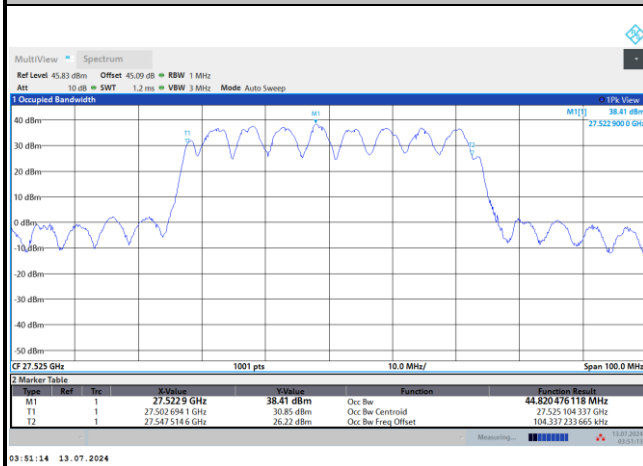
Mode	CP-OFDM Module 1 NR Band n261 : 99%OBW(MHz)	
BW	300MHz	400MHz
Mod.	QPSK	QPSK
Lowest CH	292.76	391.50
Middle CH	292.61	392.11
Highest CH	292.38	392.64



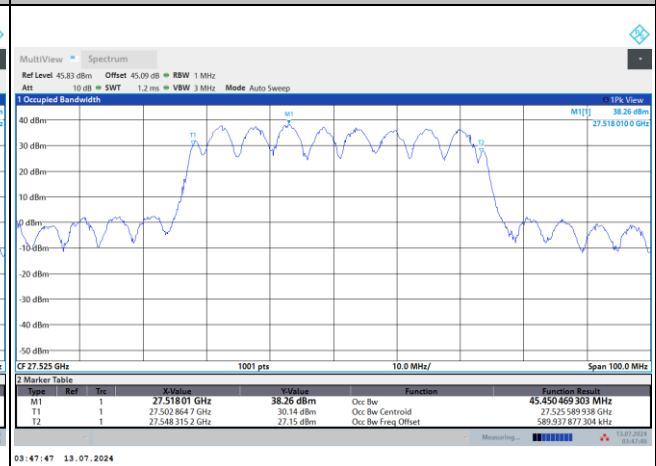
DFT-s-OFDM Module 1

NR Band n261

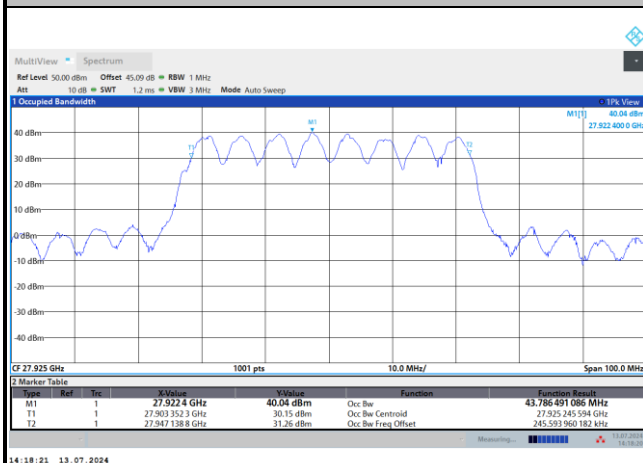
Lowest Channel / 50MHz / QPSK



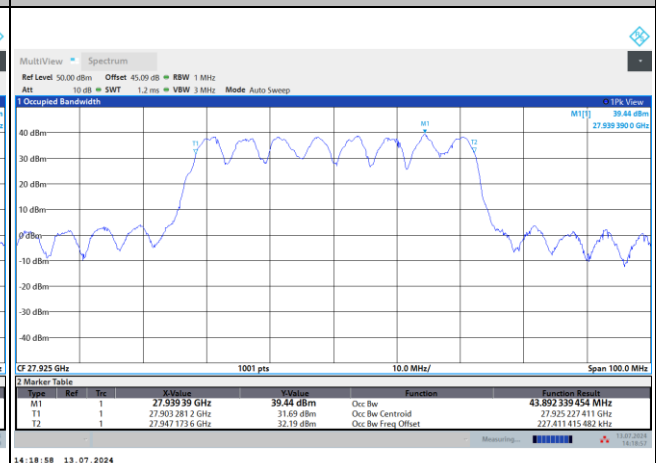
Lowest Channel / 50MHz / 16QAM



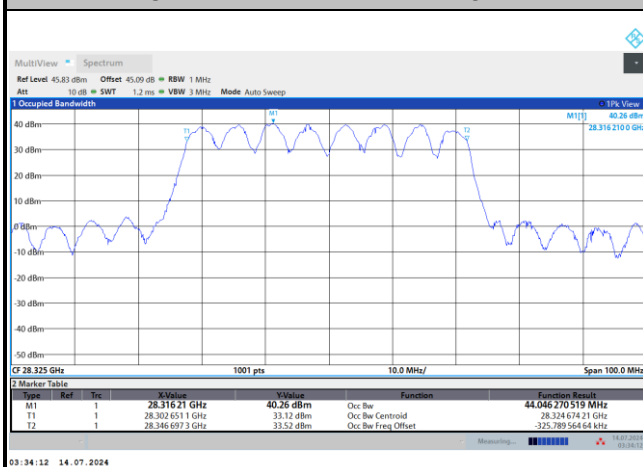
Middle Channel / 50MHz / QPSK



Middle Channel / 50MHz / 16QAM



Highest Channel / 50MHz / QPSK



Highest Channel / 50MHz / 16QAM

