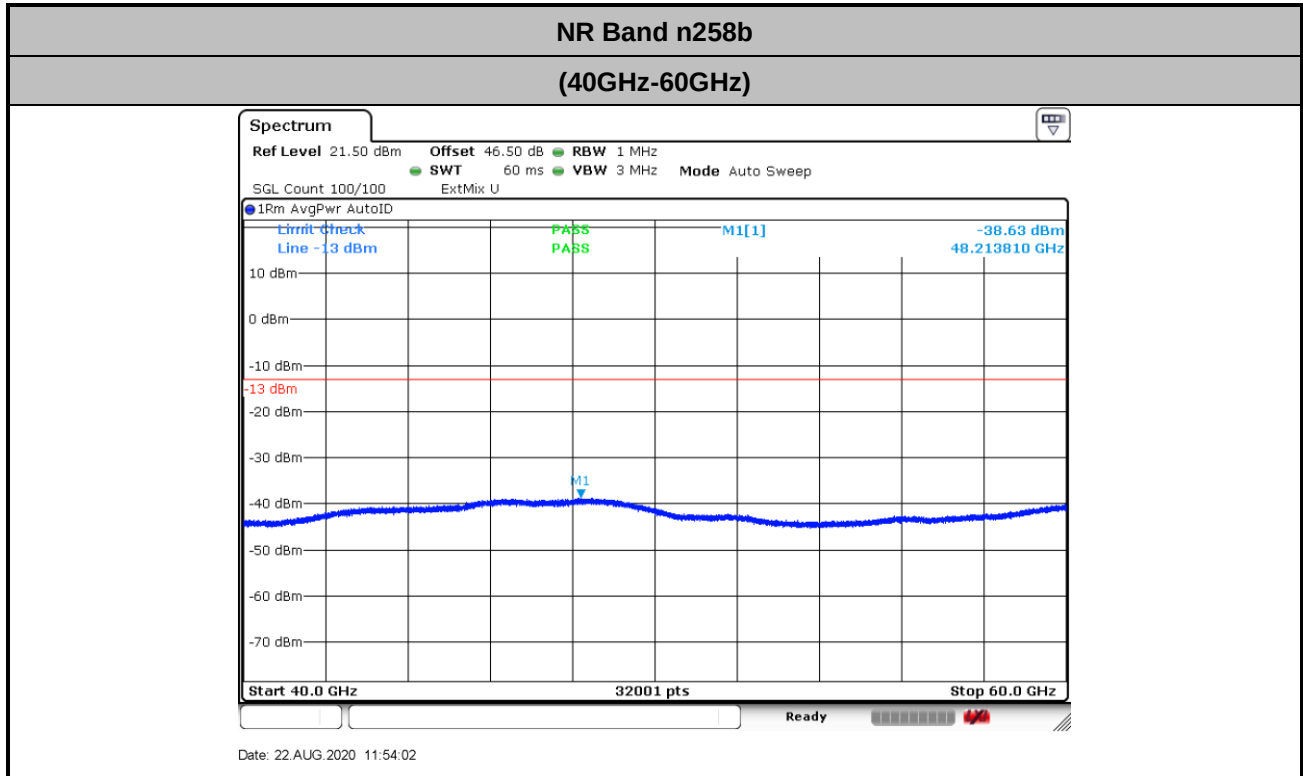
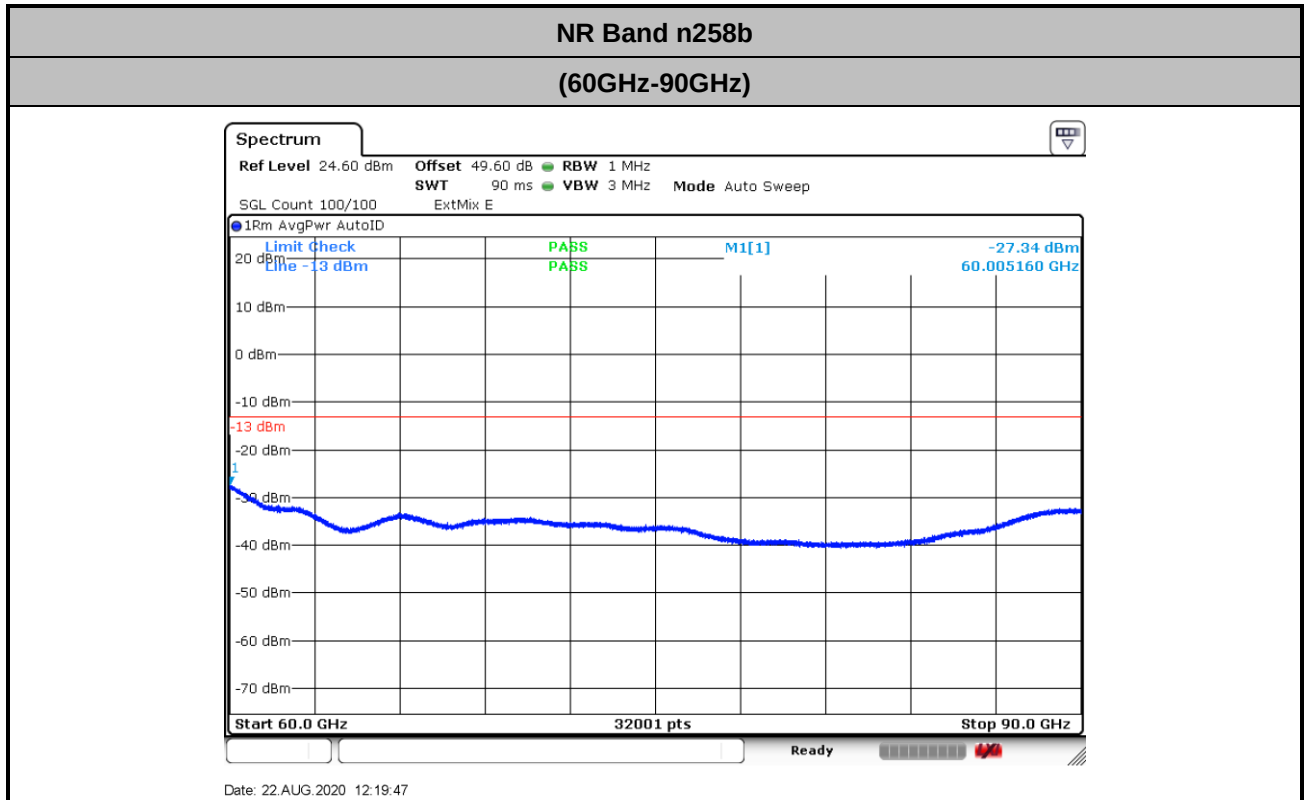




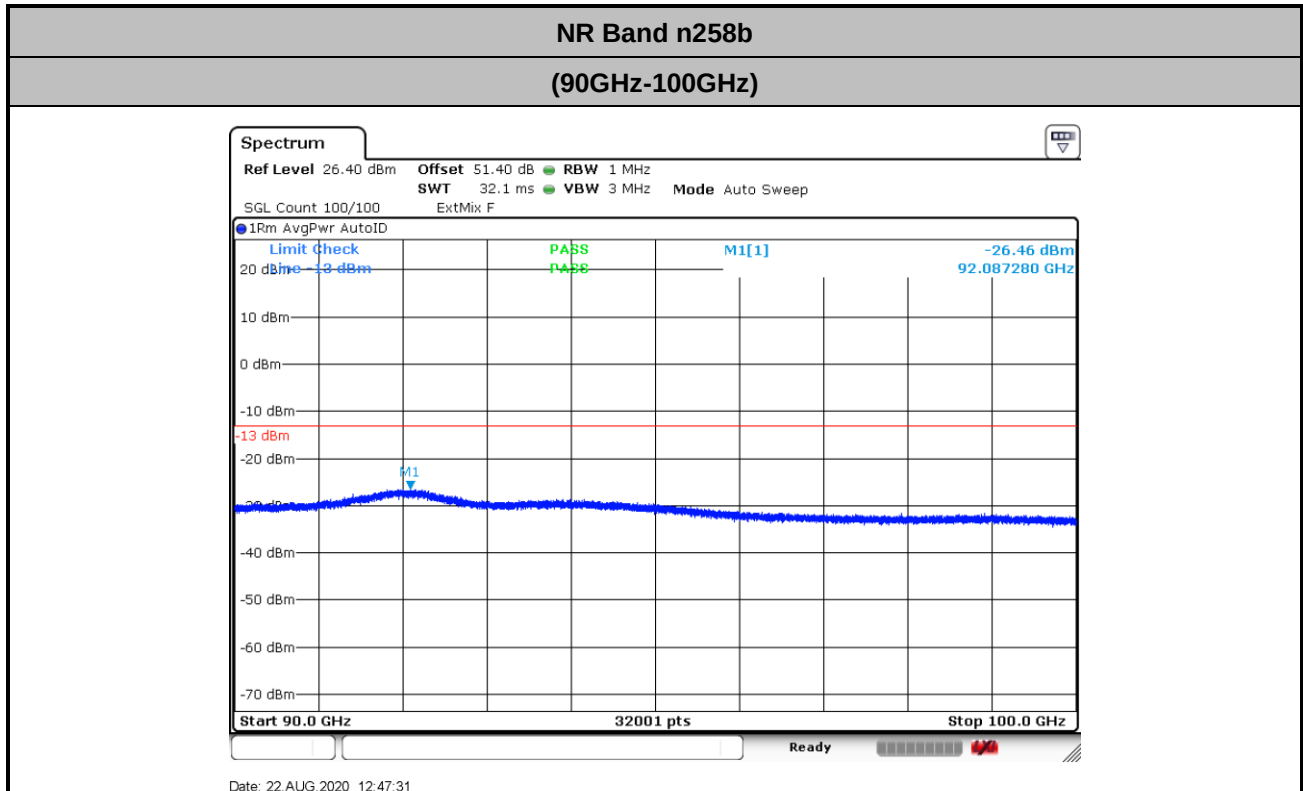
There is no significant spurious emission signal found for frequency started from 40GHz up to 100GHz.
Only the noise floor is reported.



$$\begin{aligned}\text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 \\ &= 42.3 + 2 + 107 + 20\log(1) - 104.8 = 46.5 \text{ (dB)}\end{aligned}$$



$$\begin{aligned}\text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 \\ &= 45.4 + 2 + 107 + 20\log(1) - 104.8 = 49.6 \text{ (dB)}\end{aligned}$$



$$\begin{aligned} \text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 \\ &= 47.2 + 2 + 107 + 20\log(1) - 104.8 = 51.4 \text{ (dB)} \end{aligned}$$



NR Band n258b Module 1 AG1

Occupied Bandwidth

Mode	DFT-s-OFDM Module 1 NR Band n258b: 99%OBW(MHz)							
BW	50MHz				100MHz			
Mod.	BPSK	QPSK	16QAM	64QAM	BPSK	QPSK	16QAM	64QAM
Lowest CH	45.26	45.40	45.16	45.22	90.64	90.64	89.92	90.32
Middle CH	45.08	45.42	45.48	45.48	92.24	90.64	90.60	90.88
Highest CH	45.68	45.44	45.66	45.64	91.20	90.72	91.16	92.12

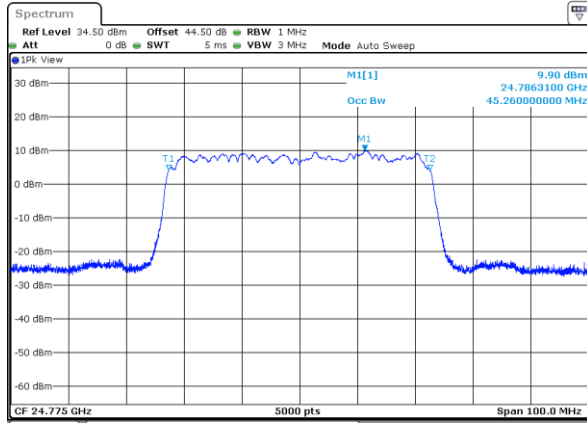
Mode	CP-OFDM Module 1 NR Band n258b: 99%OBW(MHz)					
BW	50MHz			100MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	45.24	45.22	45.22	92.64	92.60	92.88
Middle CH	45.46	45.36	45.50	92.84	92.84	93.16
Highest CH	45.44	45.44	46.00	93.56	93.96	93.40



DFT-s-OFDM Module 1

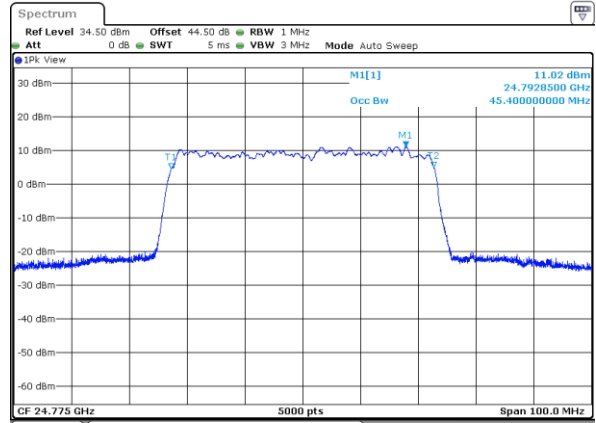
NR Band n258b

Lowest Channel / 50MHz / BPSK



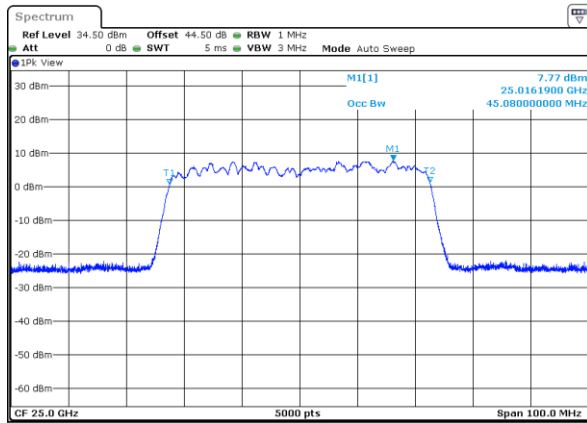
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Lowest Channel / 50MHz / QPSK



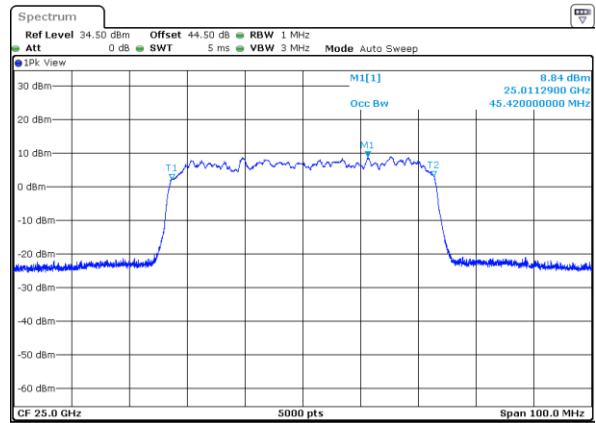
Date: 28.JUL.2020 15:31:49

Middle Channel / 50MHz / BPSK



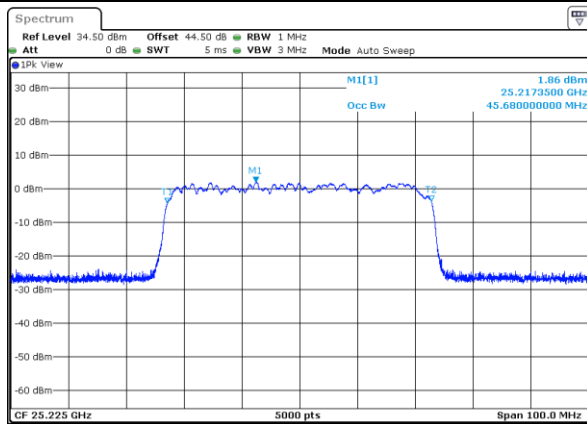
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Middle Channel / 50MHz / QPSK



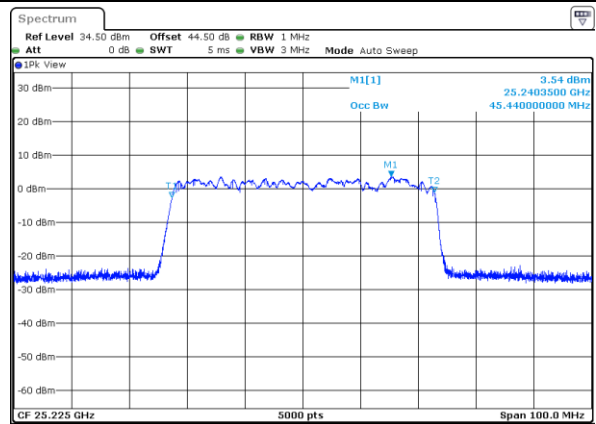
Date: 30.JUL.2020 16:17:04

Highest Channel / 50MHz / BPSK



Date: 11.SEP.2020 11:14:10

Highest Channel / 50MHz / QPSK



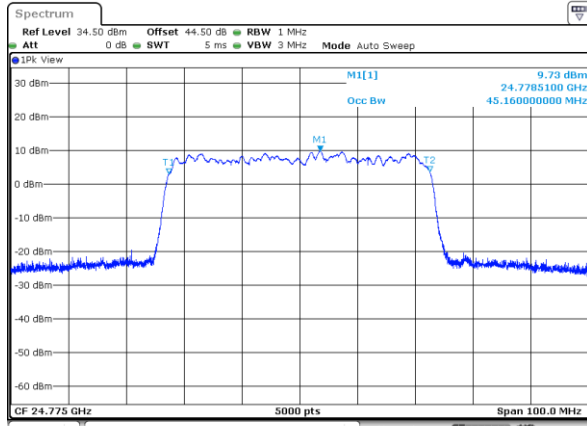
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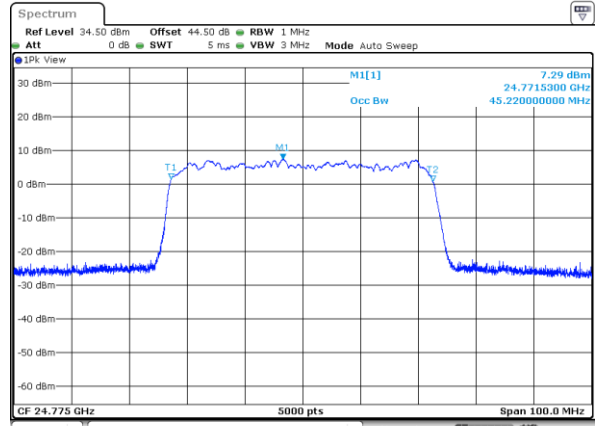
DFT-s-OFDM Module 1

NR Band n258b

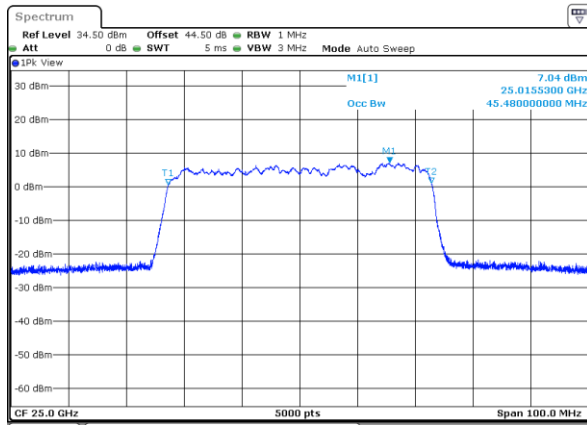
Lowest Channel / 50MHz / 16QAM



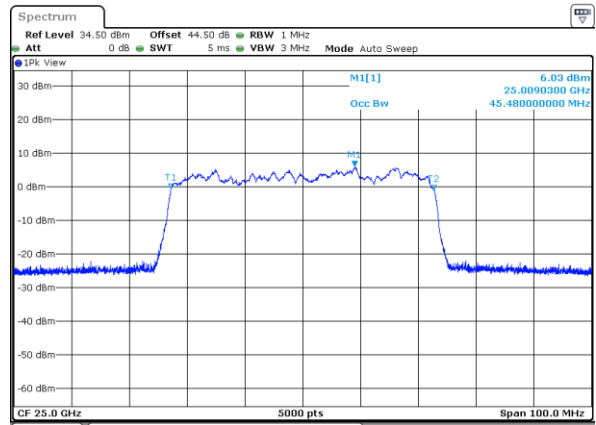
Lowest Channel / 50MHz / 64QAM



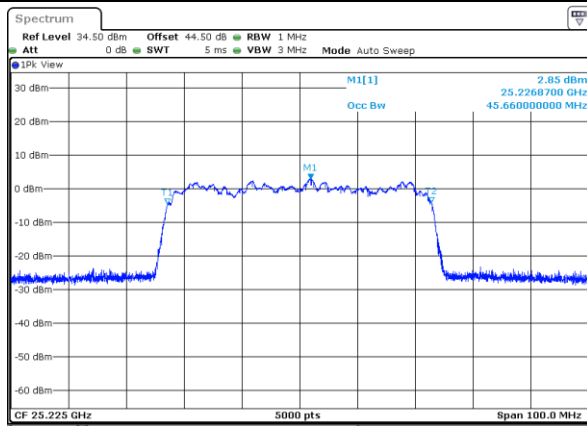
Middle Channel / 50MHz / 16QAM



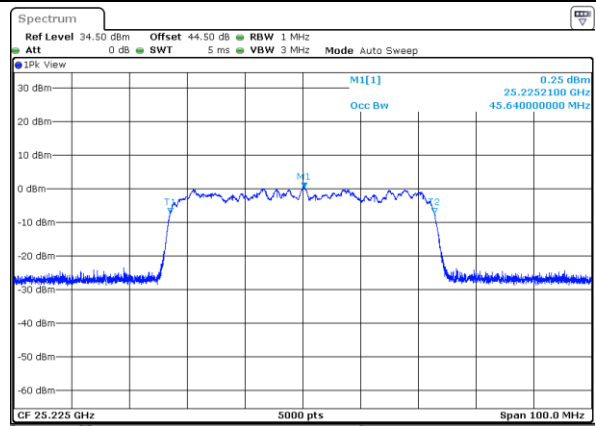
Middle Channel / 50MHz / 64QAM



Highest Channel / 50MHz / 16QAM

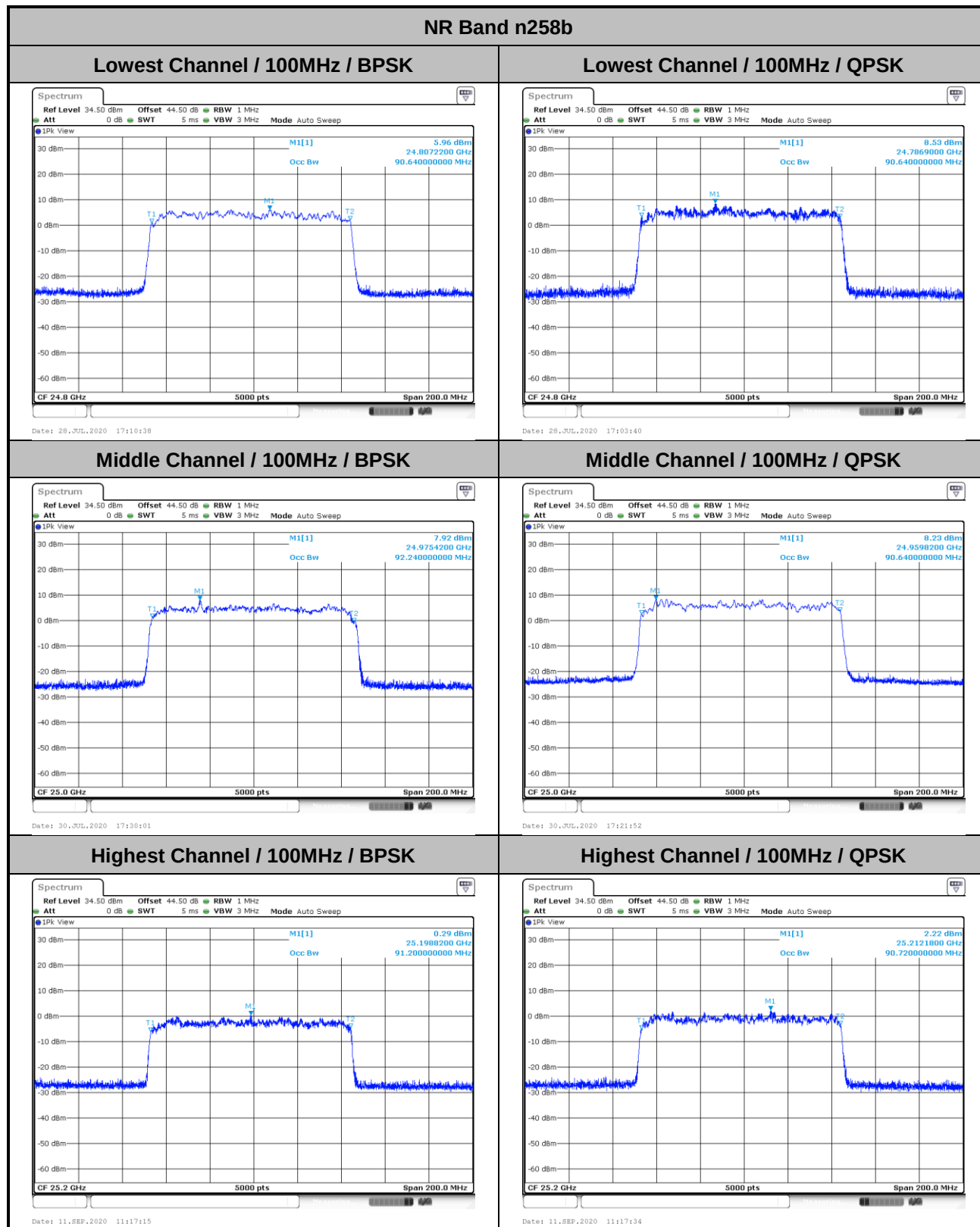


Highest Channel / 50MHz / 64QAM





DFT-s-OFDM Module 1

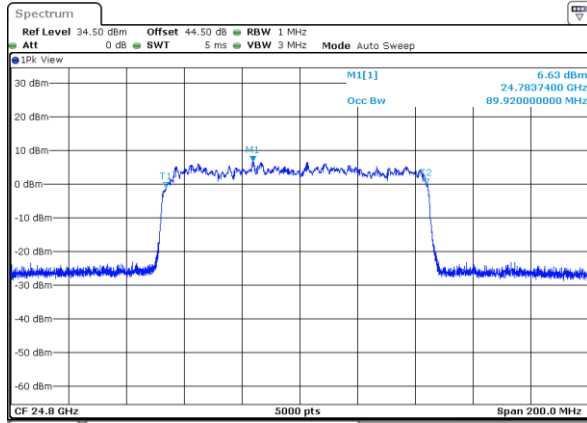




DFT-s-OFDM Module 1

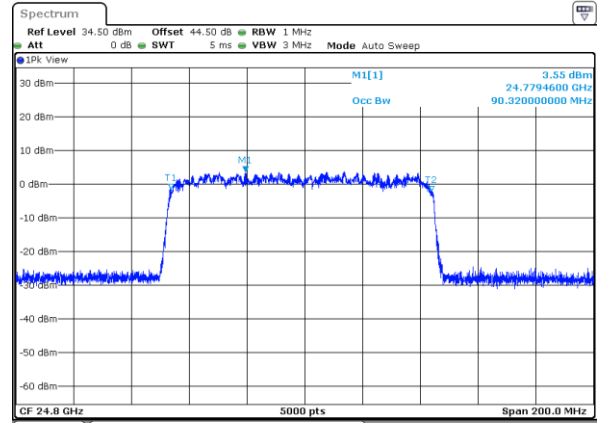
NR Band n258b

Lowest Channel / 100MHz / 16QAM



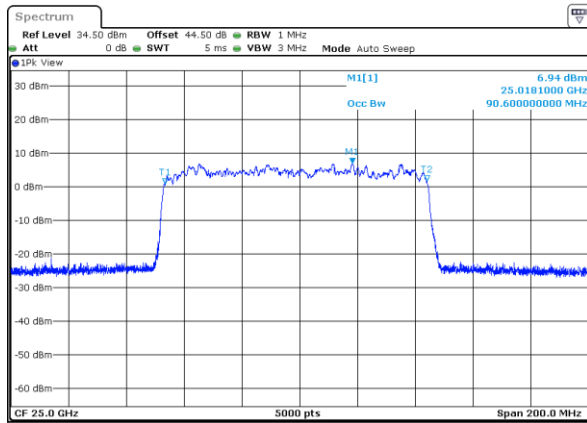
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Lowest Channel / 100MHz / 64QAM



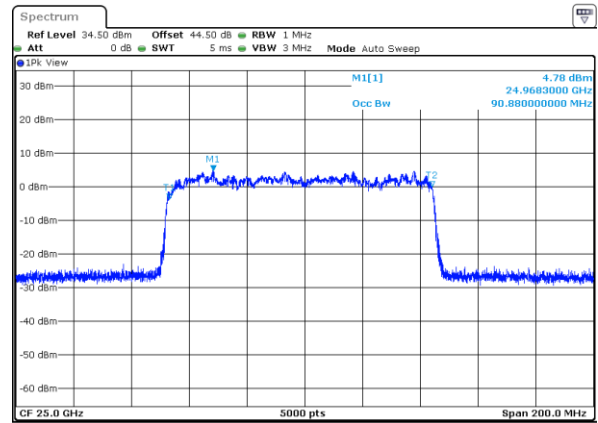
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Middle Channel / 100MHz / 16QAM



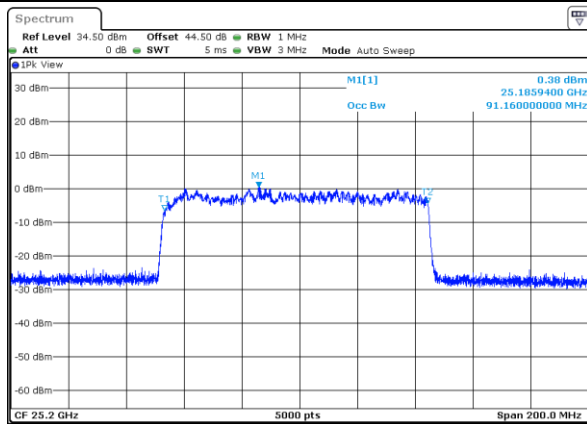
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Middle Channel / 100MHz / 64QAM



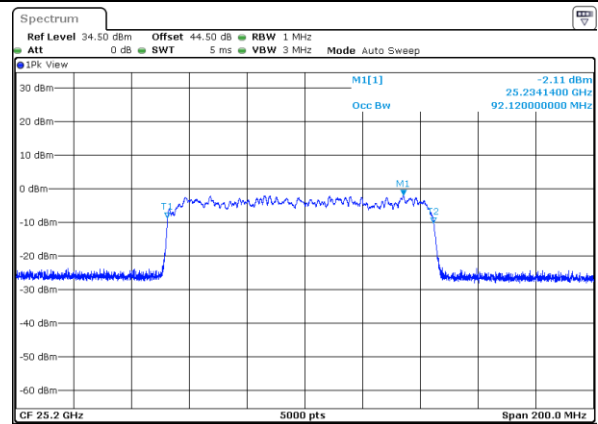
Date: 30.JUL.2020 17:26:51

Highest Channel / 100MHz / 16QAM



Date: 11.SEP.2020 11:17:51

Highest Channel / 100MHz / 64QAM



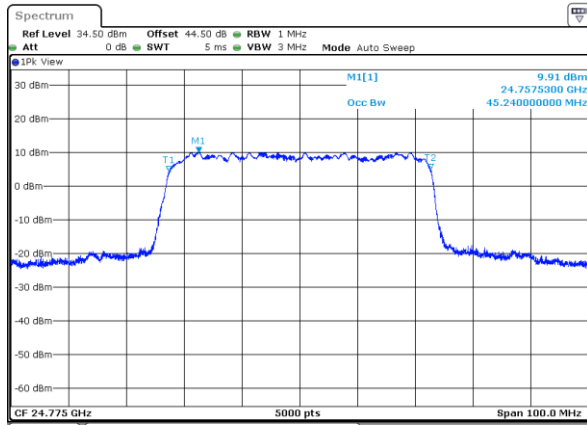
Date: 11.SEP.2020 11:18:50



CP-OFDM Module 1

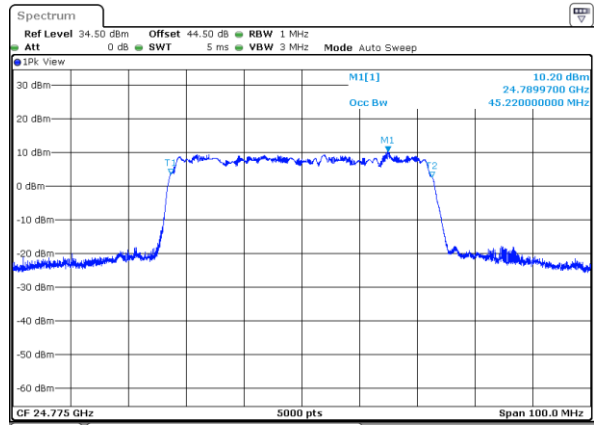
NR Band n258b

Lowest Channel / 50MHz / QPSK



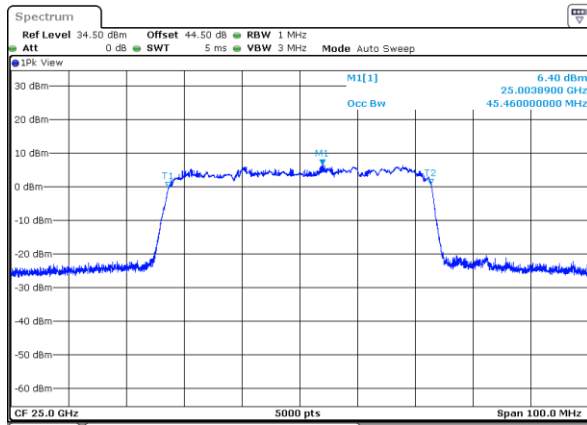
Date: 28.JUL.2020 15:47:54

Lowest Channel / 50MHz / 16QAM



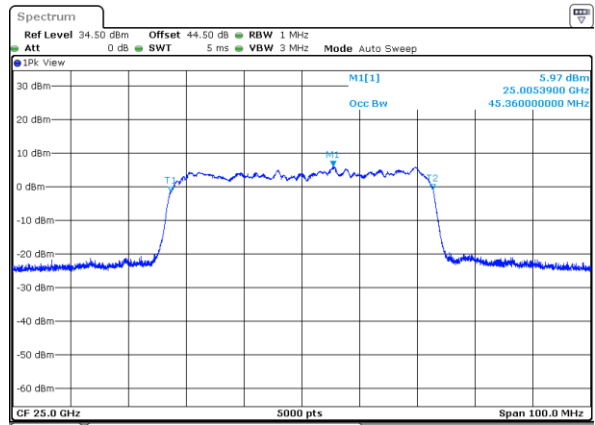
Date: 28.JUL.2020 15:49:29

Middle Channel / 50MHz / QPSK



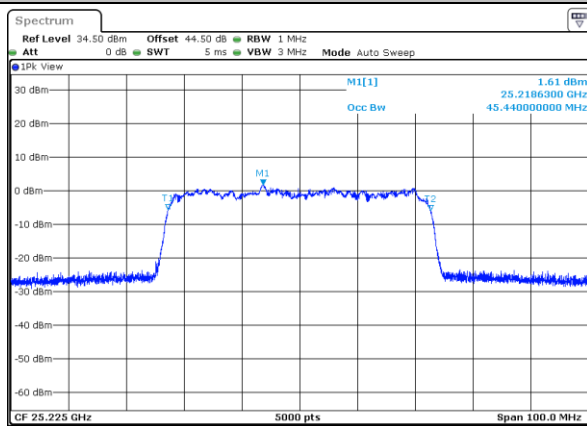
Date: 30.JUL.2020 16:26:12

Middle Channel / 50MHz / 16QAM



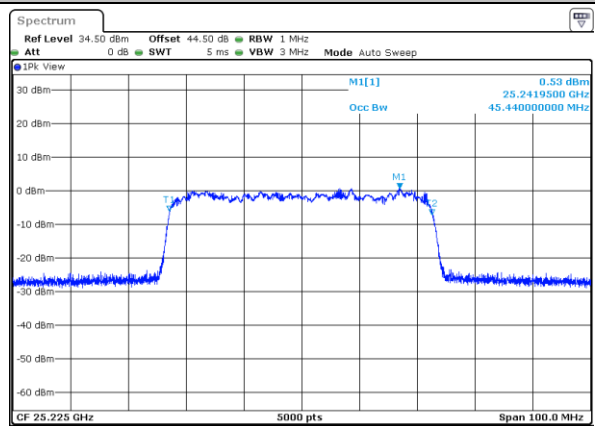
Date: 30.JUL.2020 16:29:33

Highest Channel / 50MHz / QPSK



Date: 11.SEP.2020 11:15:43

Highest Channel / 50MHz / 16QAM



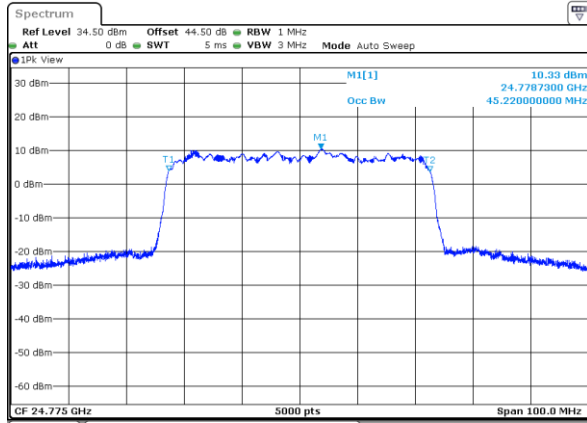
Date: 11.SEP.2020 11:15:55



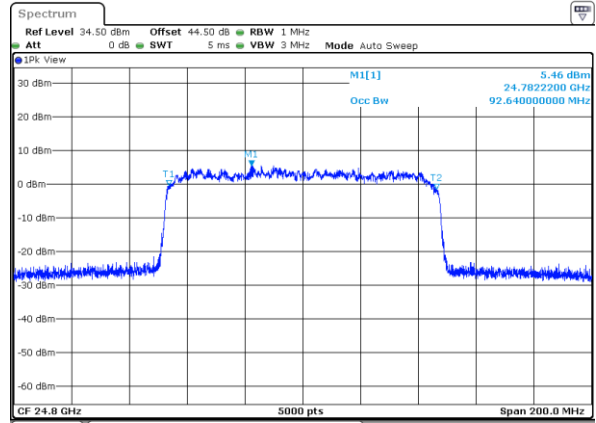
CP-OFDM Module 1

NR Band n258b

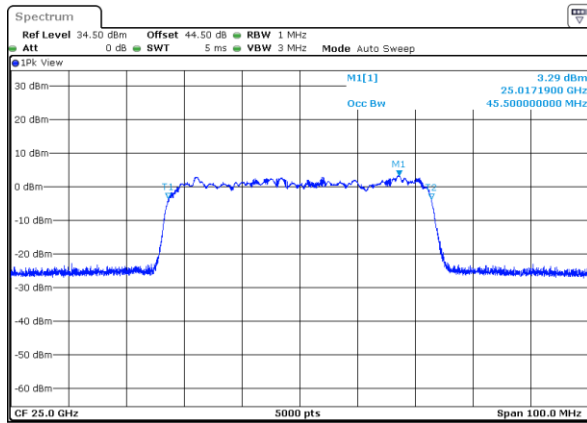
Lowest Channel / 50MHz / 64QAM



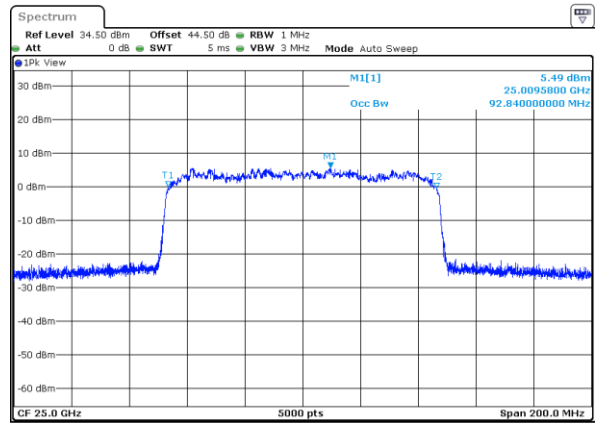
Lowest Channel / 100MHz / QPSK



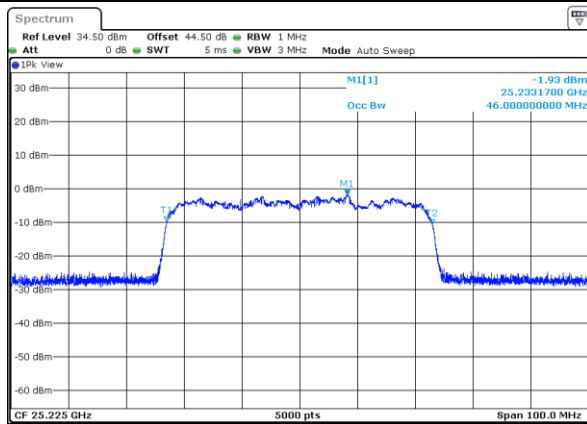
Middle Channel / 50MHz / 64QAM



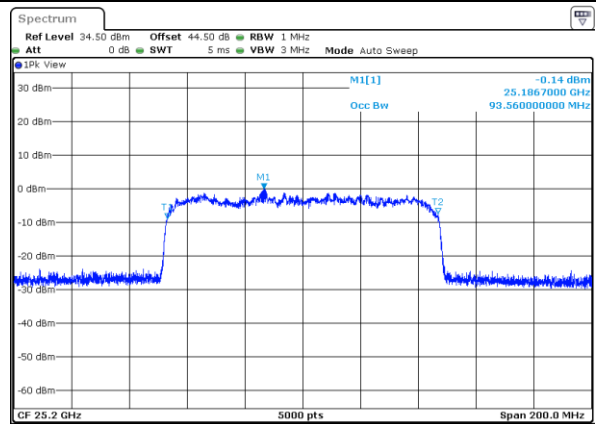
Middle Channel / 100MHz / QPSK



Highest Channel / 50MHz / 64QAM



Highest Channel / 100MHz / QPSK

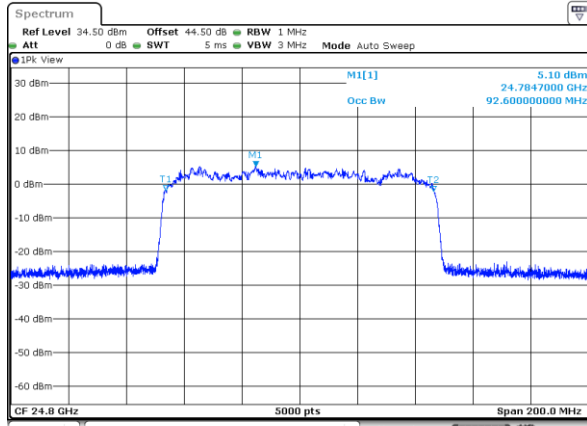




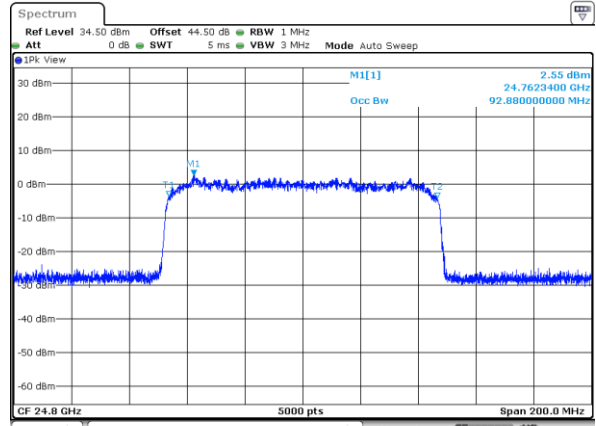
CP-OFDM Module 1

NR Band n258b

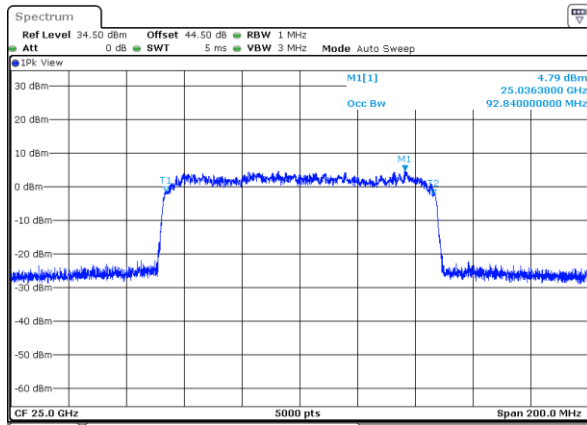
Lowest Channel / 100MHz / 16QAM



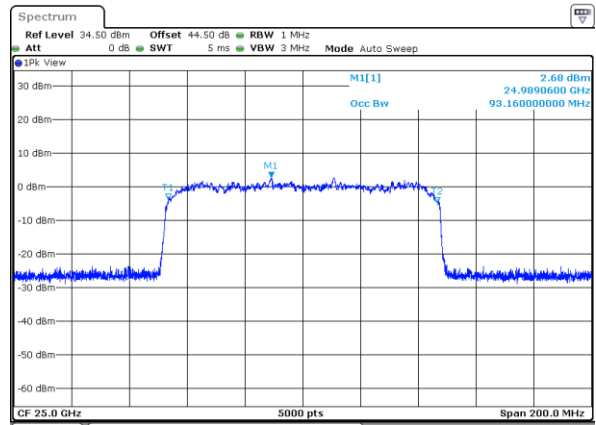
Lowest Channel / 100MHz / 64QAM



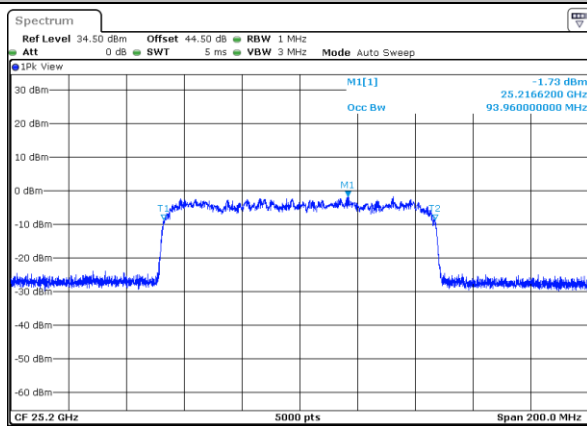
Middle Channel / 100MHz / 16QAM



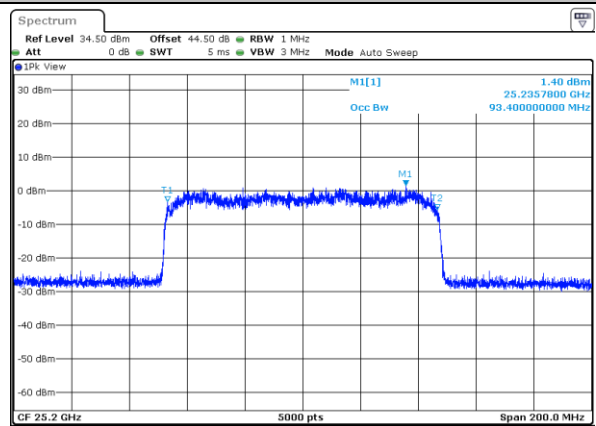
Middle Channel / 100MHz / 64QAM



Highest Channel / 100MHz / 16QAM



Highest Channel / 100MHz / 64QAM



Radiated Out of Band Emissions

Mode			DFT-s-OFDM Module 1 NR Band n258b: BE (dBm) 1 RB							
BW			50MHz				100MHz			
Limit (dBm)			BPSK	QPSK	16QAM	64QAM	BPSK	QPSK	16QAM	64QAM
Low CH	0~10%OB	≤ -5	-22.94	-21.11	-23.25	-24.83	-24.66	-22.54	-24.54	-26.78
	>10%OB	≤ -13	-33.08	-32.48	-33.02	-33.08	-33.16	-33.23	-33.28	-33.51
High CH	0~10%OB	≤ -5	-24.03	-20.71	-23.53	-24.42	-24.48	-23.30	-23.88	-27.00
	>10%OB	≤ -13	-32.55	-32.22	-32.68	-32.97	-32.93	-32.81	-32.81	-32.76
Result			Compliance							

Mode			CP-OFDM Module 1 NR Band n258b: BE (dBm) 1 RB					
BW			50MHz			100MHz		
Limit (dBm)			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Low CH	0~10%OB	≤ -5	-22.61	-23.74	-25.72	-25.94	-26.32	-28.01
	>10%OB	≤ -13	-32.87	-32.94	-33.45	-33.34	-33.45	-33.52
High CH	0~10%OB	≤ -5	-21.93	-23.03	-26.51	-24.63	-25.91	-27.33
	>10%OB	≤ -13	-32.58	-32.77	-33.04	-32.80	-32.69	-32.85
Result			Compliance					

Mode			DFT-s-OFDM Module 1 NR Band n258b: BE (dBm) Full RB							
BW			50MHz				100MHz			
Limit (dBm)			BPSK	QPSK	16QAM	64QAM	BPSK	QPSK	16QAM	64QAM
Low CH	0~10%OB	≤ -5	-30.69	-28.8	-31.99	-31.74	-32.61	-30.98	-32.28	-33
	>10%OB	≤ -13	-32.59	-30.37	-32.73	-32.53	-33.01	-31.91	-32.48	-33.24
High CH	0~10%OB	≤ -5	-30.57	-29.19	-29.72	-30.93	-32.4	-31.15	-31.49	-32.27
	>10%OB	≤ -13	-32.94	-31.47	-31.93	-32.72	-32.97	-32.42	-32.61	-32.98
Result			Compliance							

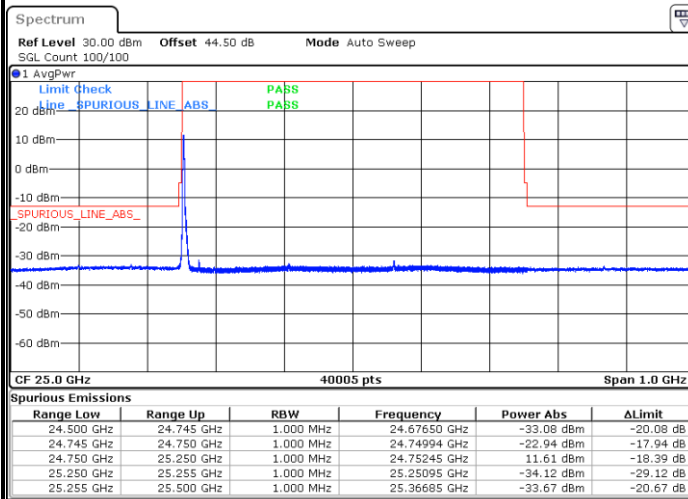
Mode			CP-OFDM Module 1 NR Band n258b: BE (dBm) Full RB					
BW			50MHz			100MHz		
Limit (dBm)			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Low CH	0~10%OB	≤ -5	-28.54	-29.49	-28.82	-31.48	-32.25	-33.19
	>10%OB	≤ -13	-29.66	-30.24	-30.05	-32.44	-32.63	-33.22
High CH	0~10%OB	≤ -5	-29.32	-29.96	-31.93	-30.9	-31.3	-32.61
	>10%OB	≤ -13	-31.69	-31.96	-32.96	-32.27	-32.53	-32.91
Result			Compliance					



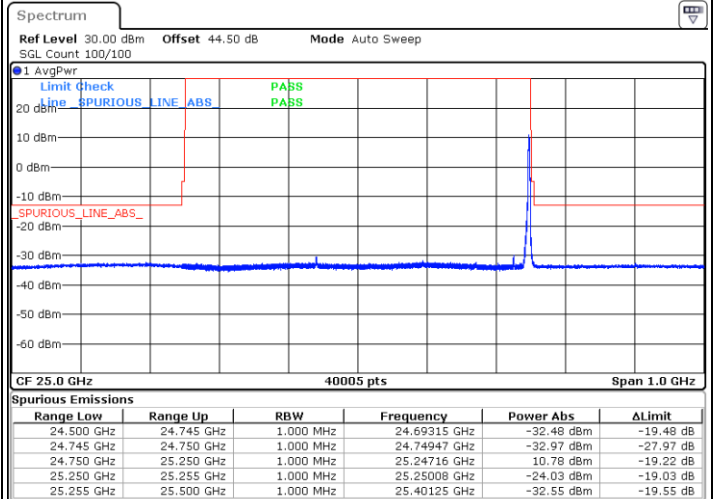
DFT-s-OFDM Module 1

NR Band n258b/ 50MHz / BPSK

Lowest Band Edge / 1 RB

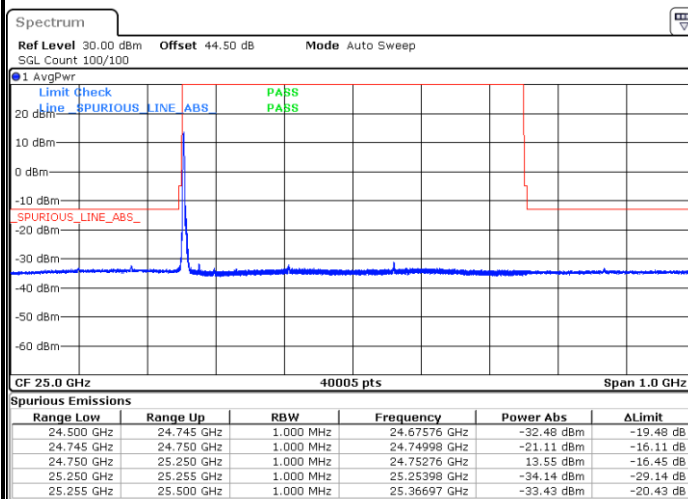


Highest Band Edge / 1 RB

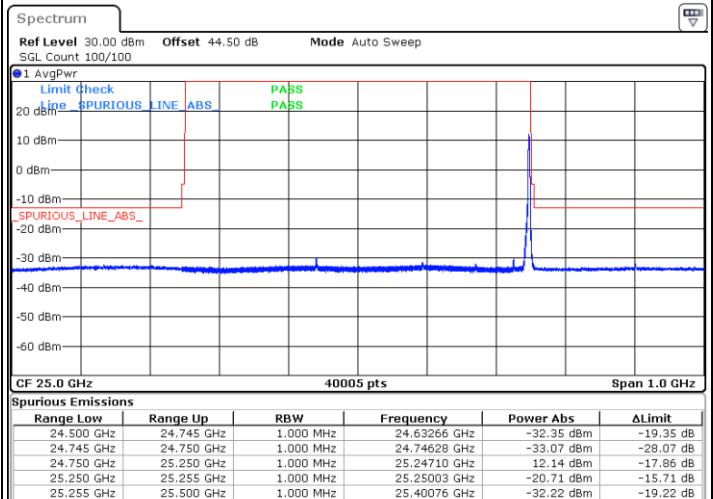


NR Band n258b/ 50MHz / QPSK

Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB

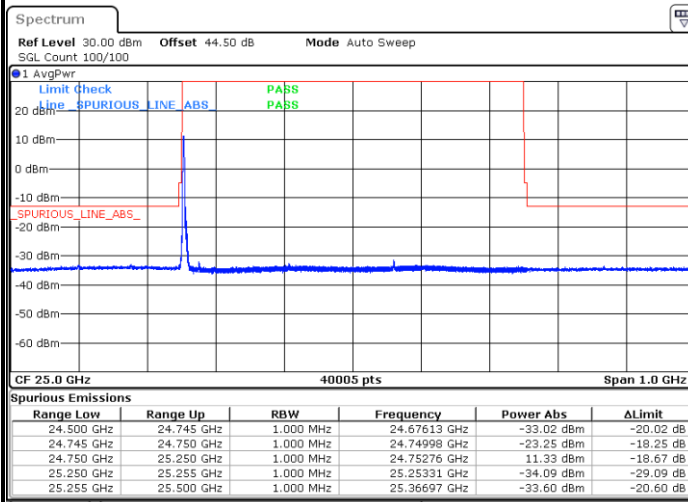




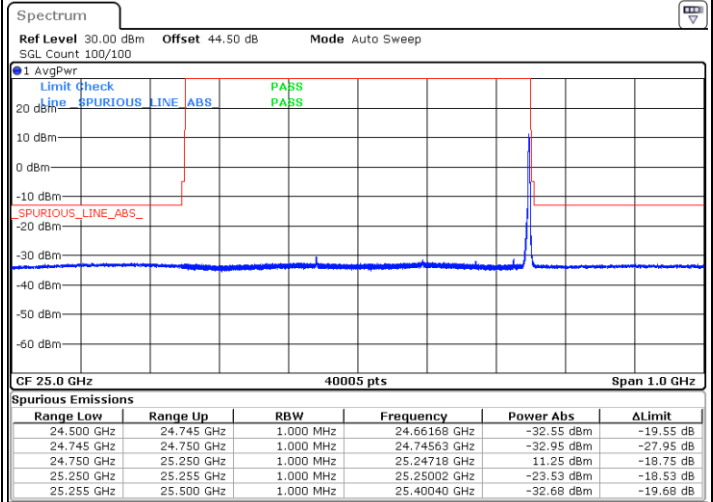
DFT-s-OFDM Module 1

NR Band n258b/ 50MHz / 16QAM

Lowest Band Edge / 1 RB

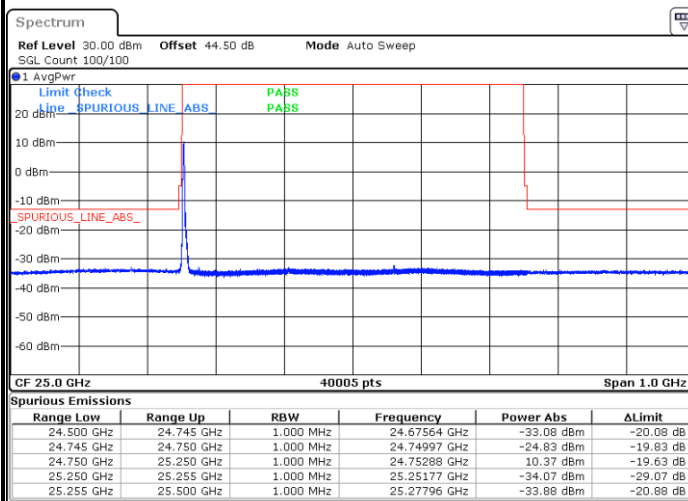


Highest Band Edge / 1 RB

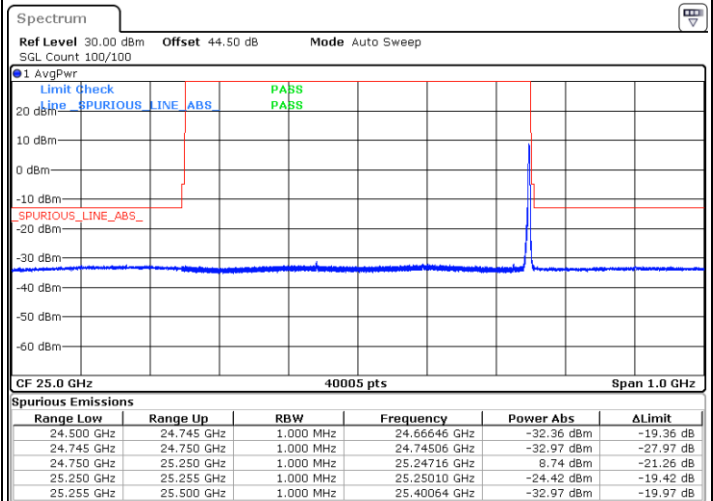


NR Band n258b/ 50MHz / 64QAM

Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB

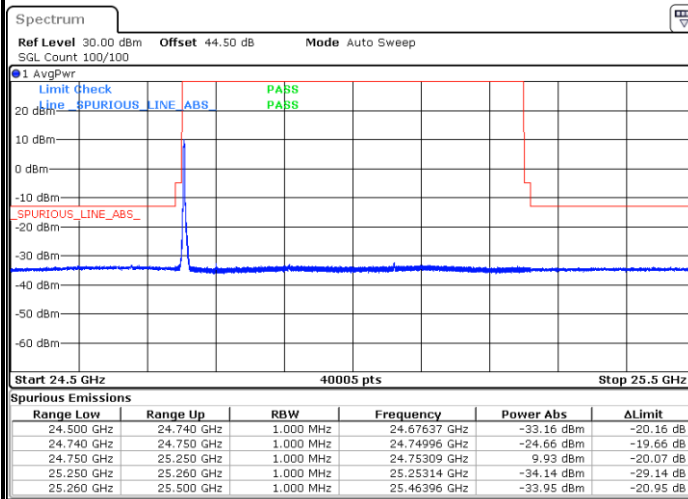




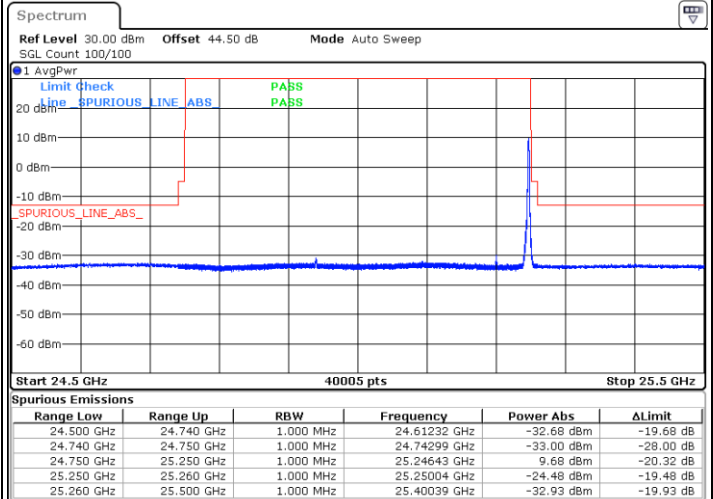
DFT-s-OFDM Module 1

NR Band n258b/ 100MHz / BPSK

Lowest Band Edge / 1 RB

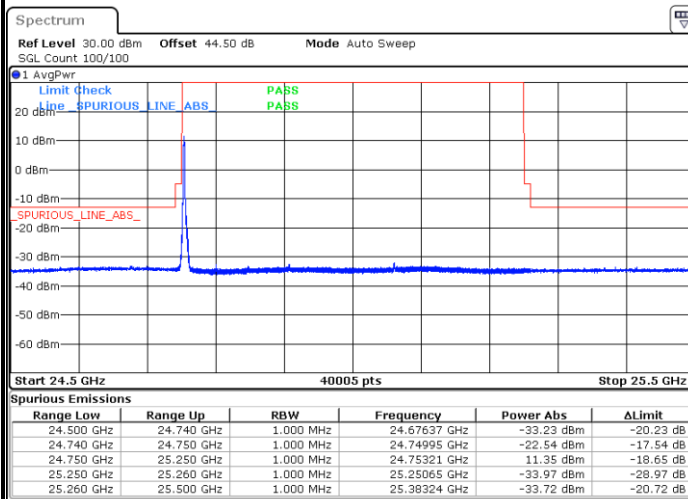


Highest Band Edge / 1 RB

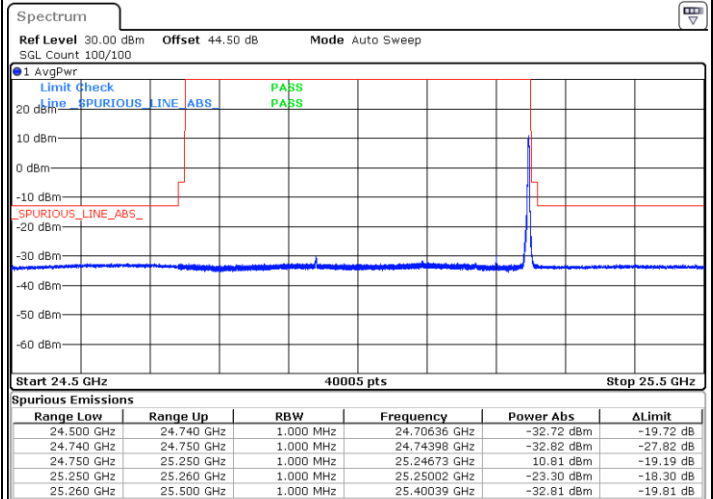


NR Band n258b/ 100MHz / QPSK

Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB

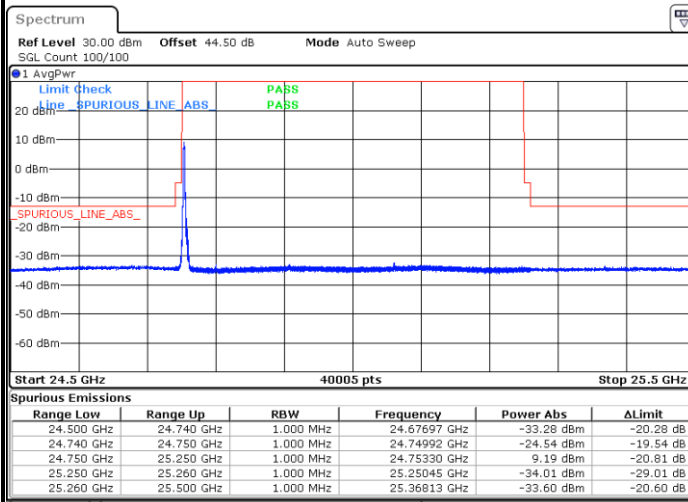




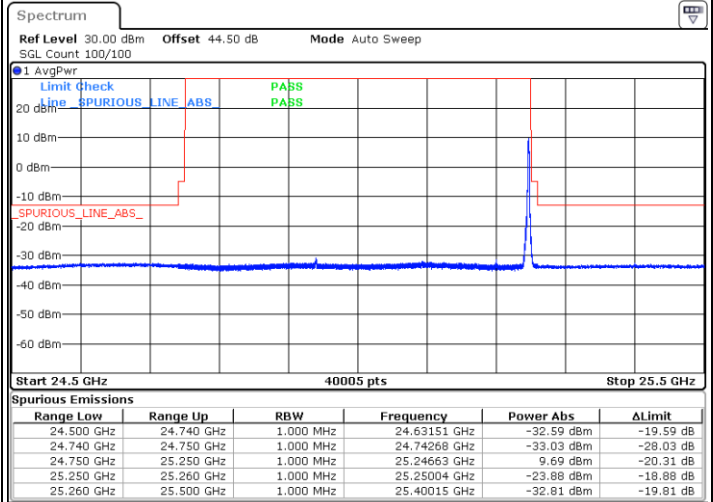
DFT-s-OFDM Module 1

NR Band n258b/ 100MHz / 16QAM

Lowest Band Edge / 1 RB

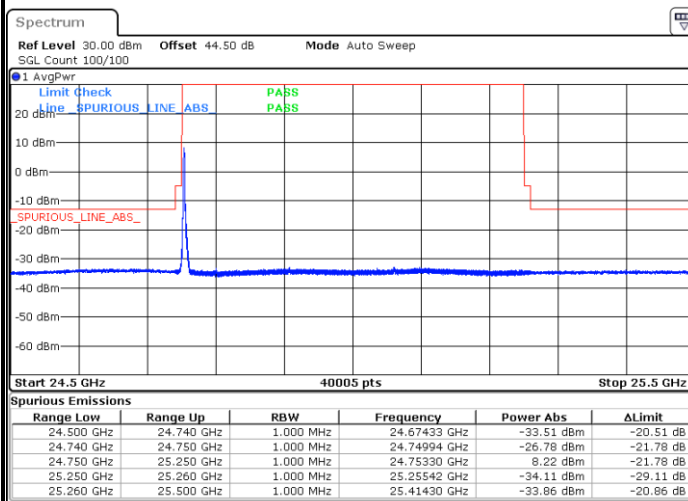


Highest Band Edge / 1 RB

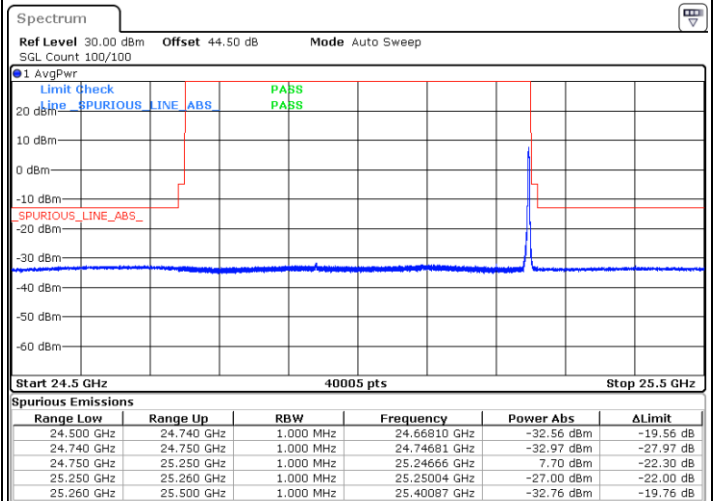


NR Band n258b/ 100MHz / 64QAM

Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB

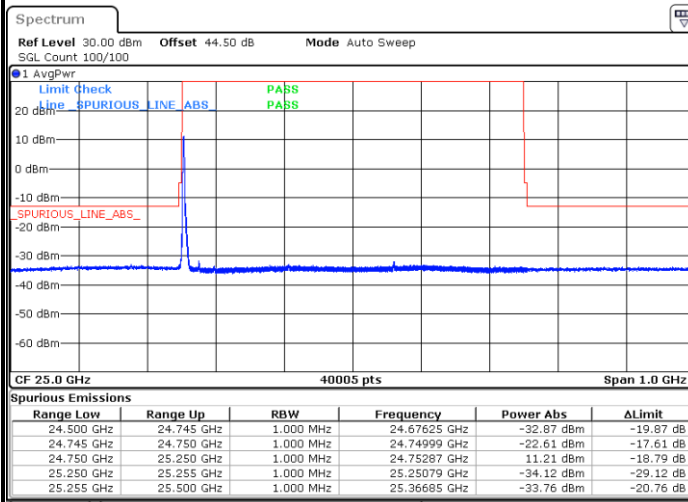




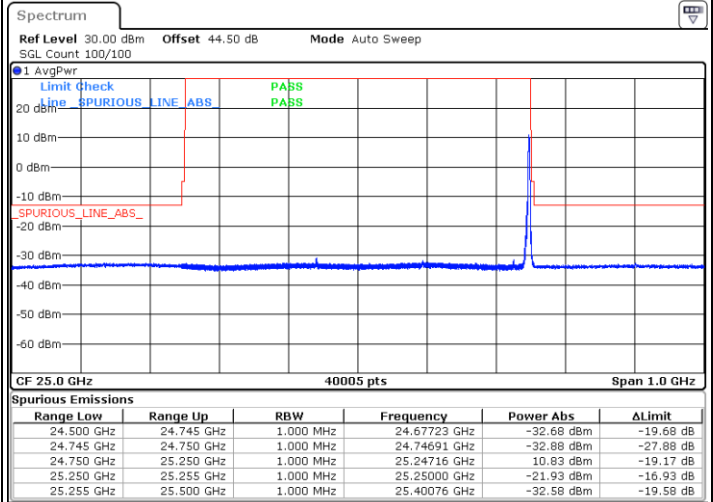
CP-OFDM Module 1

NR Band n258b/ 50MHz / QPSK

Lowest Band Edge / 1 RB

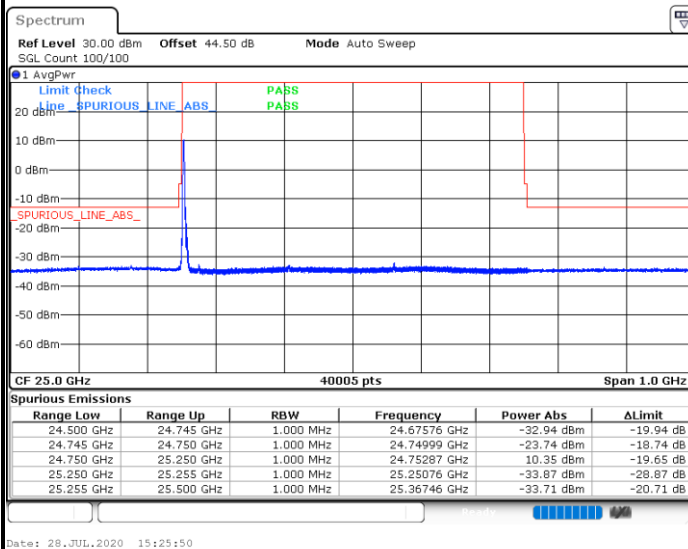


Highest Band Edge / 1 RB

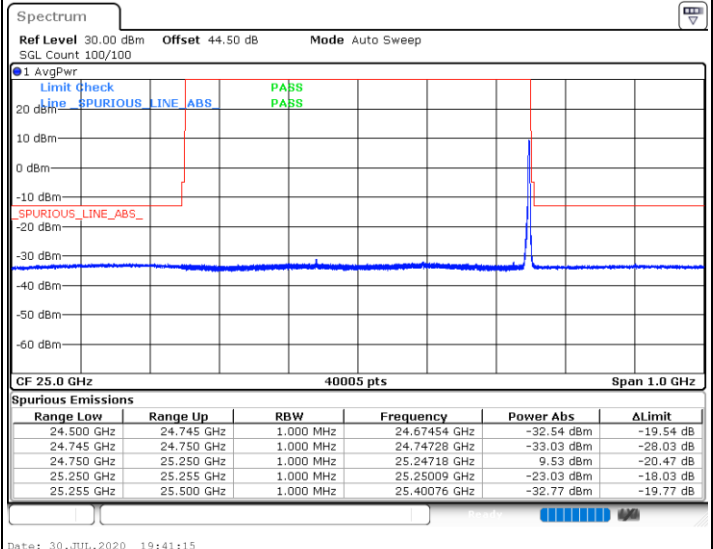


NR Band n258b/ 50MHz / 16QAM

Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB

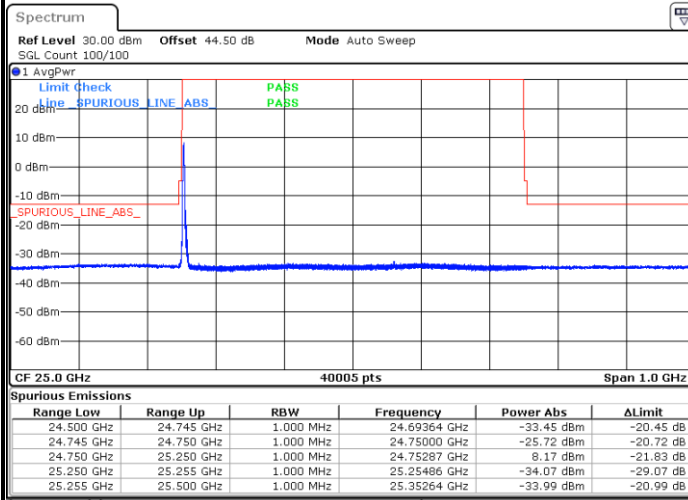




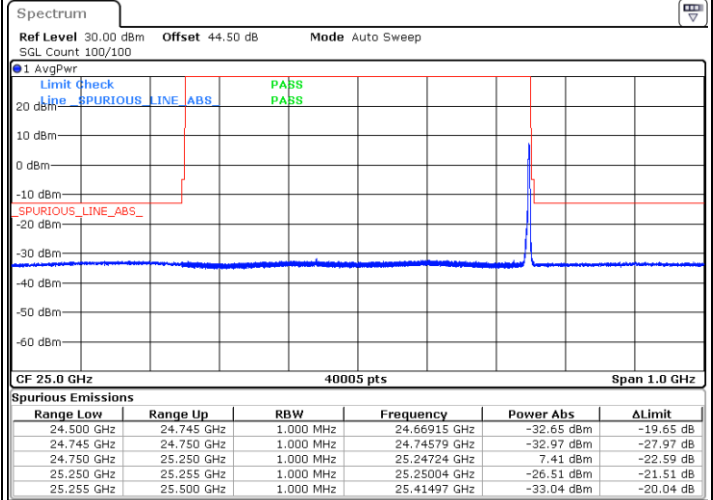
CP-OFDM Module 1

NR Band n258b/ 50MHz / 64QAM

Lowest Band Edge / 1 RB

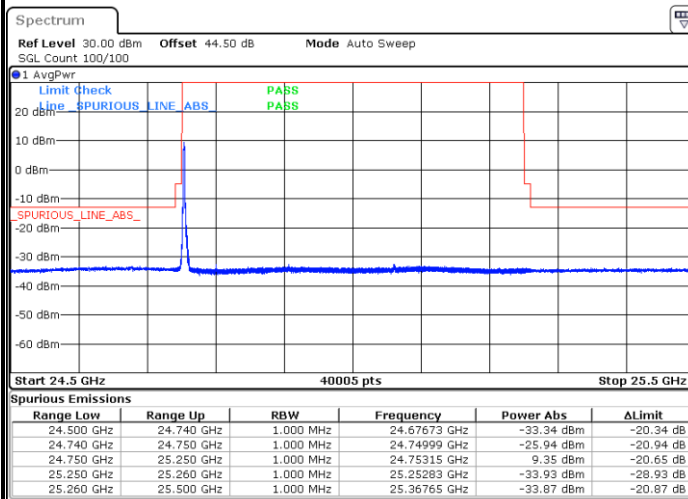


Highest Band Edge / 1 RB

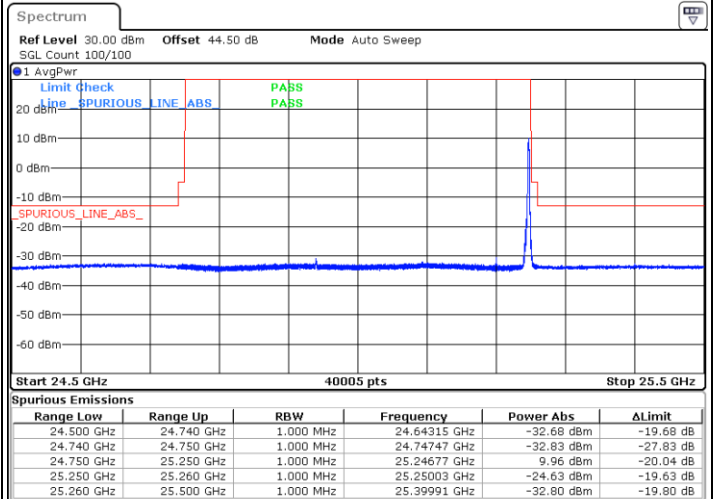


NR Band n258b/ 100MHz / QPSK

Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB

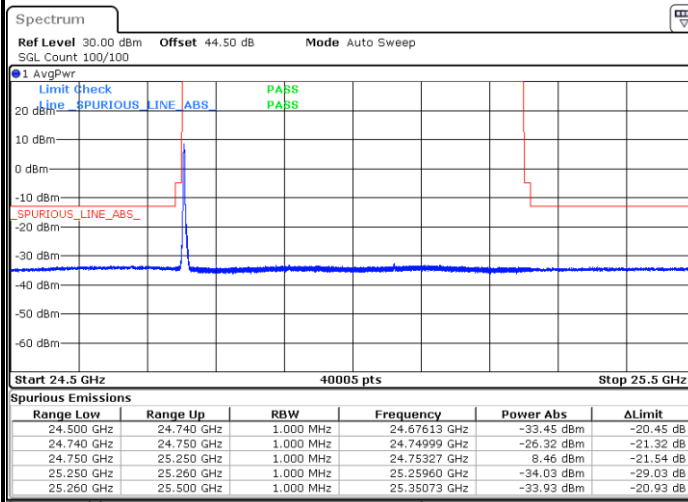




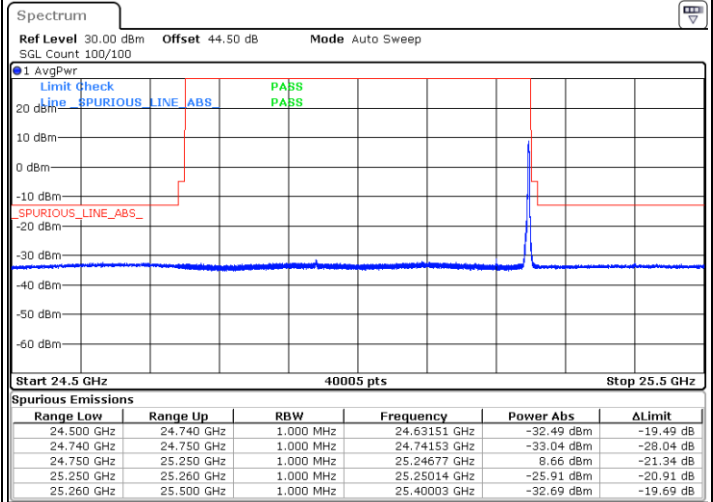
CP-OFDM Module 1

NR Band n258b/ 100MHz / 16QAM

Lowest Band Edge / 1 RB

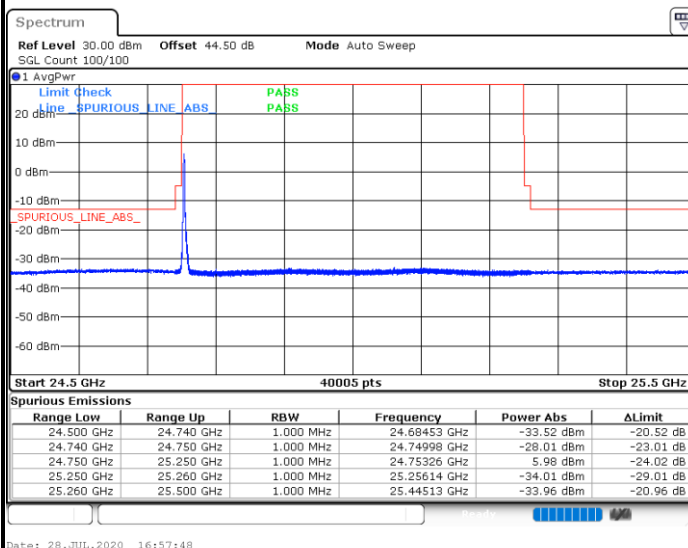


Highest Band Edge / 1 RB

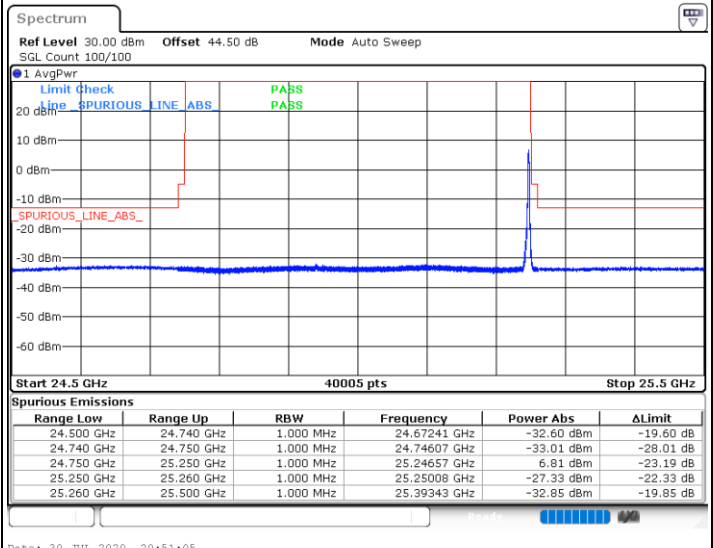


NR Band n258b/ 100MHz / 64QAM

Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB

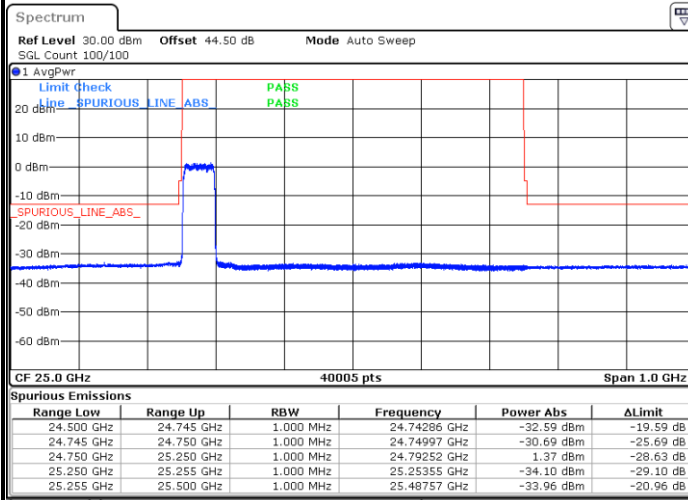




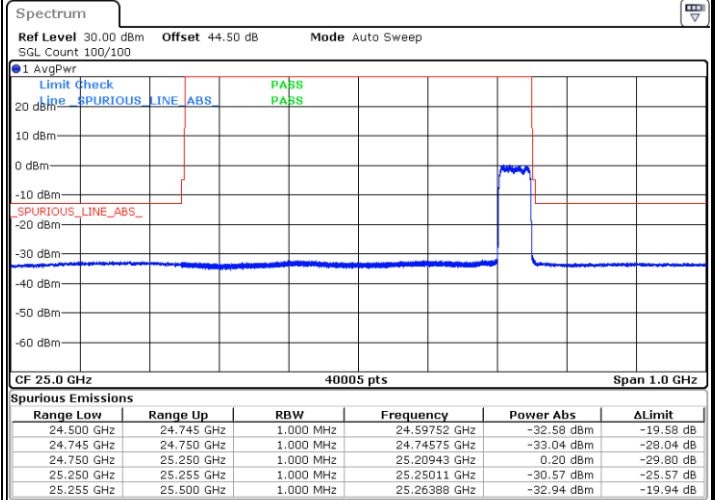
DFT-s-OFDM Module 1

NR Band n258b/ 50MHz / BPSK

Lowest Band Edge / Full RB

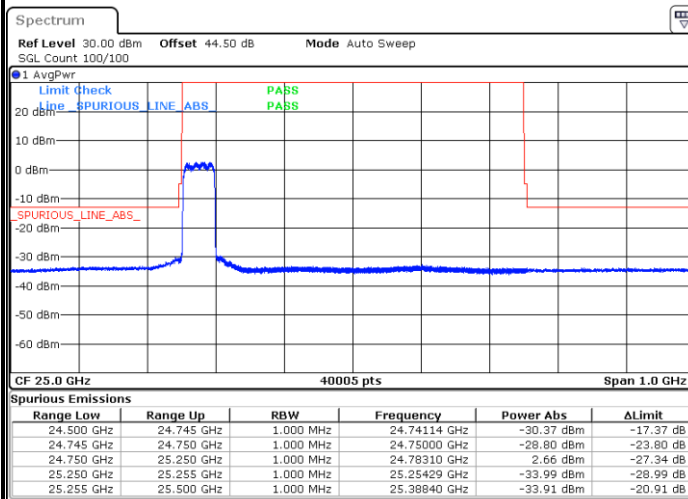


Highest Band Edge / Full RB

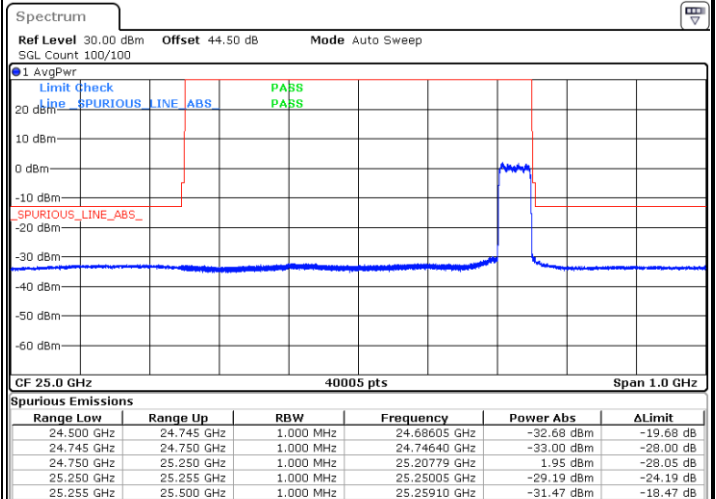


NR Band n258b/ 50MHz / QPSK

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

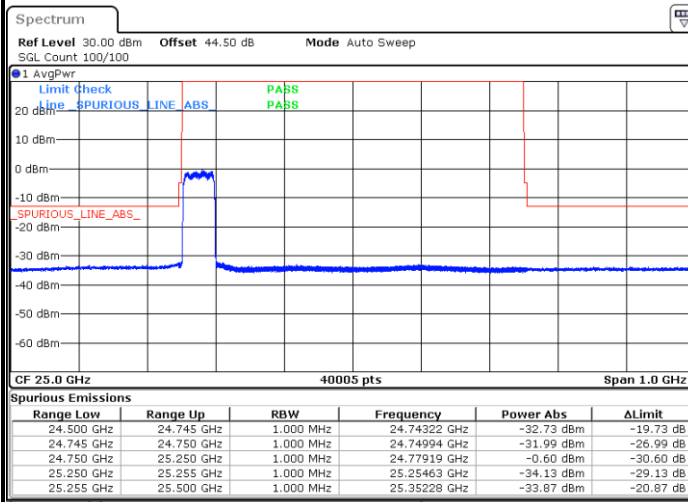




DFT-s-OFDM Module 1

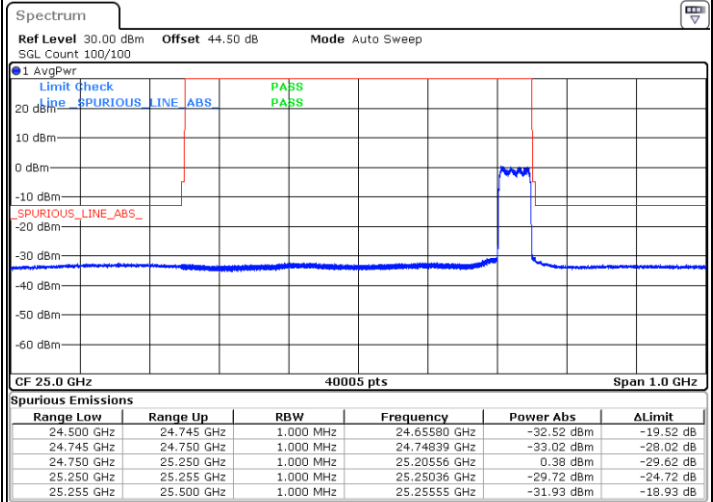
NR Band n258b/ 50MHz / 16QAM

Lowest Band Edge / Full RB



Date: 28.JUL.2020 15:33:02

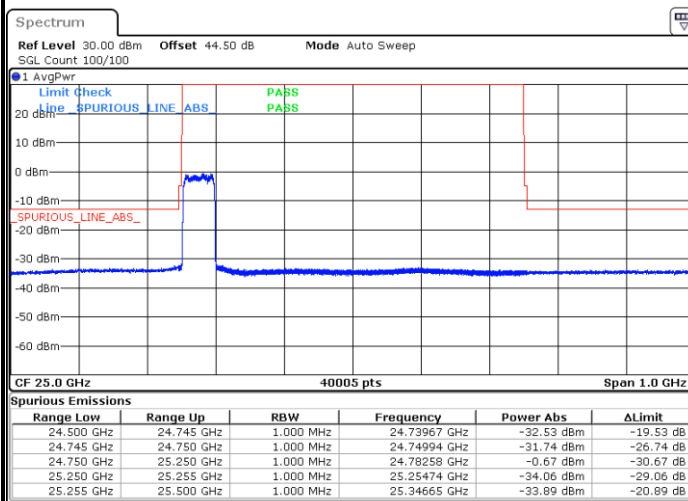
Highest Band Edge / Full RB



Date: 30.JUL.2020 19:24:19

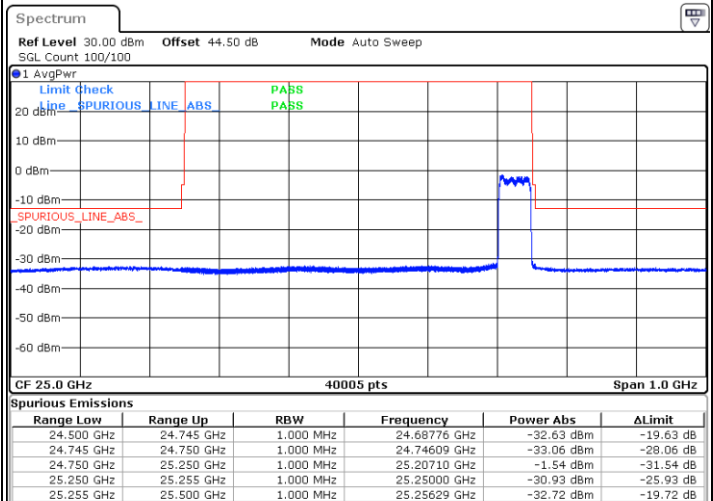
NR Band n258b/ 50MHz / 64QAM

Lowest Band Edge / Full RB



Date: 28.JUL.2020 15:35:39

Highest Band Edge / Full RB



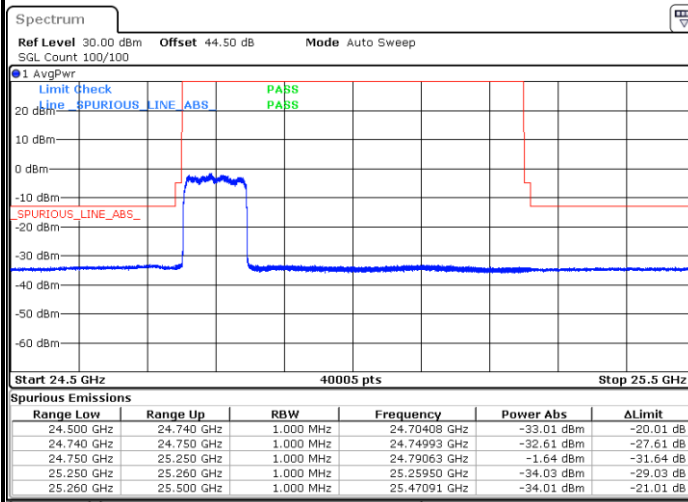
Date: 30.JUL.2020 19:25:27



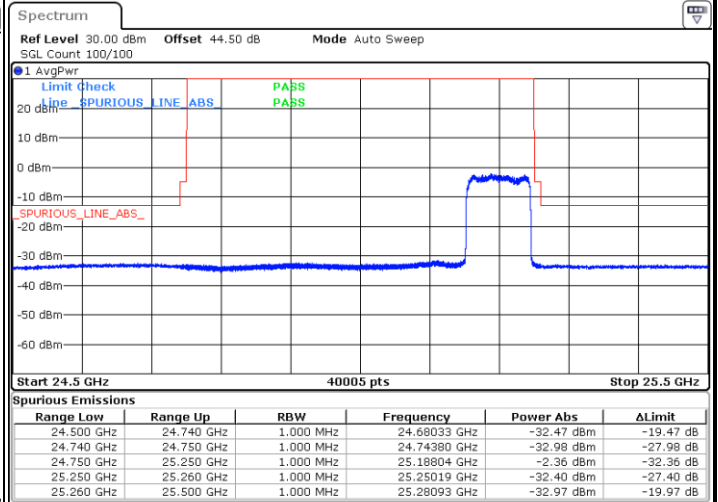
DFT-s-OFDM Module 1

NR Band n258b/ 100MHz / BPSK

Lowest Band Edge / Full RB

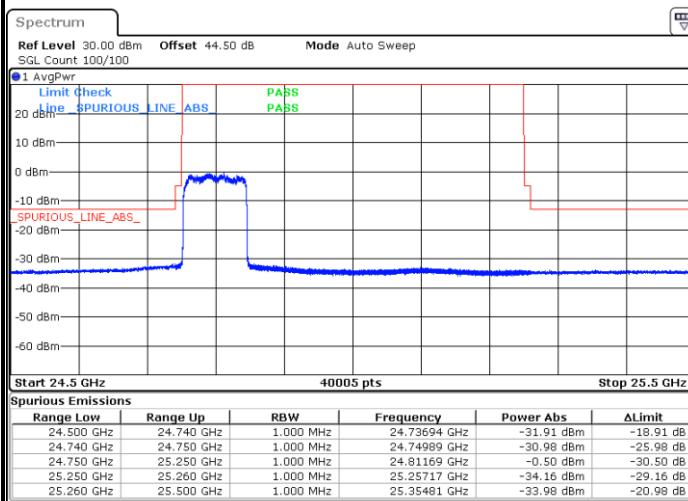


Highest Band Edge / Full RB

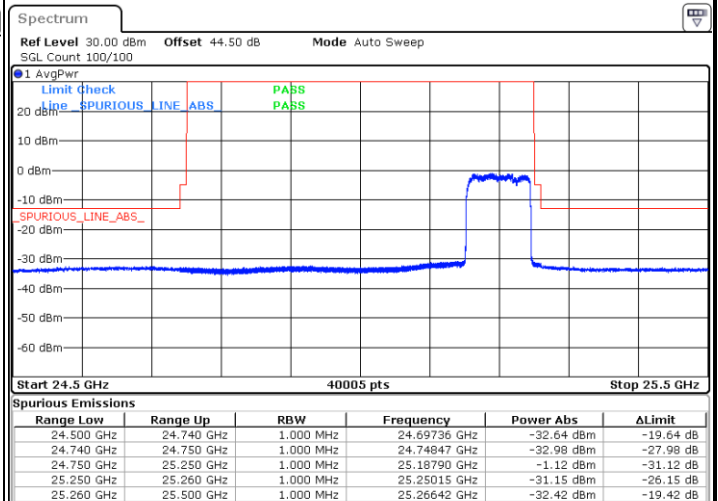


NR Band n258b/ 100MHz / QPSK

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

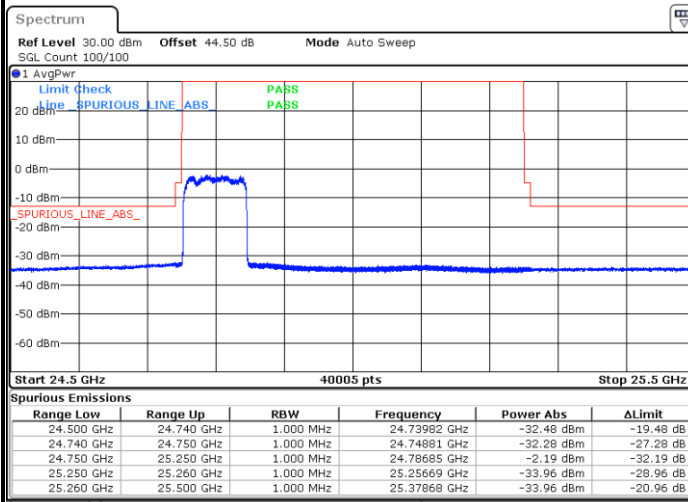




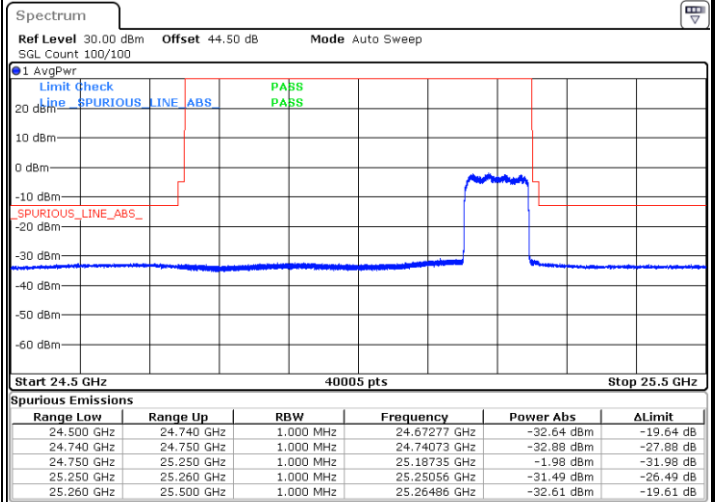
DFT-s-OFDM Module 1

NR Band n258b/ 100MHz / 16QAM

Lowest Band Edge / Full RB

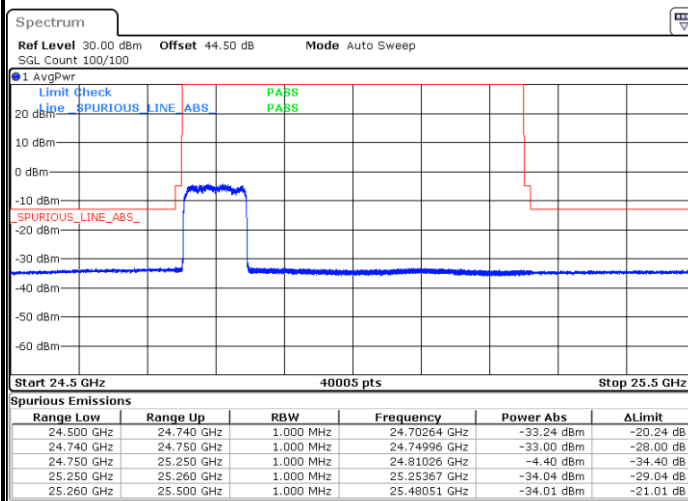


Highest Band Edge / Full RB

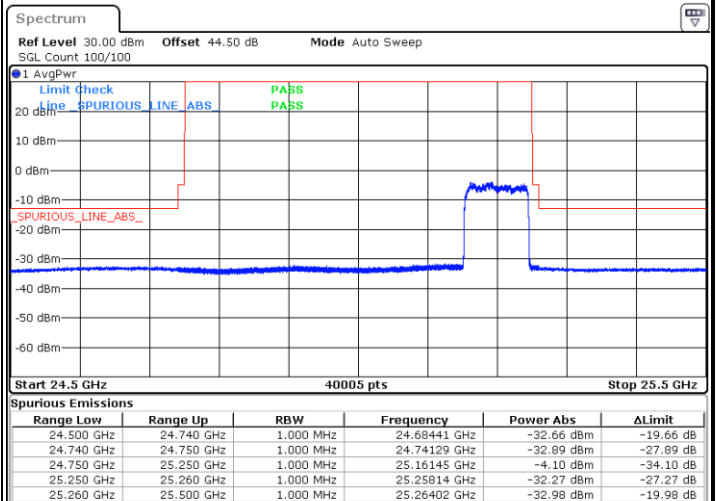


NR Band n258b/ 100MHz / 64QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

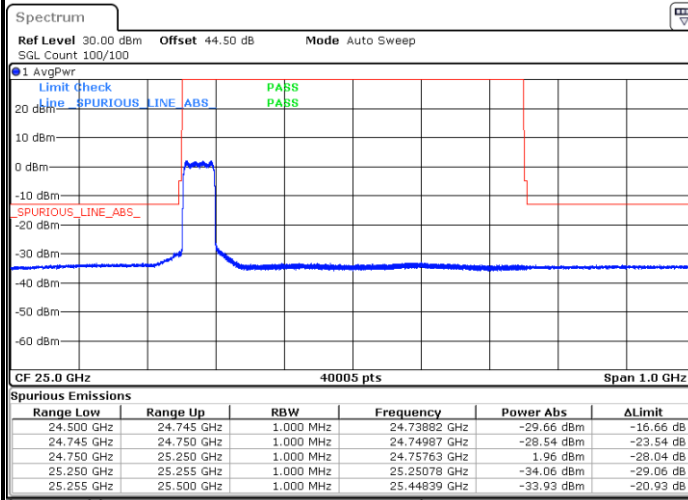




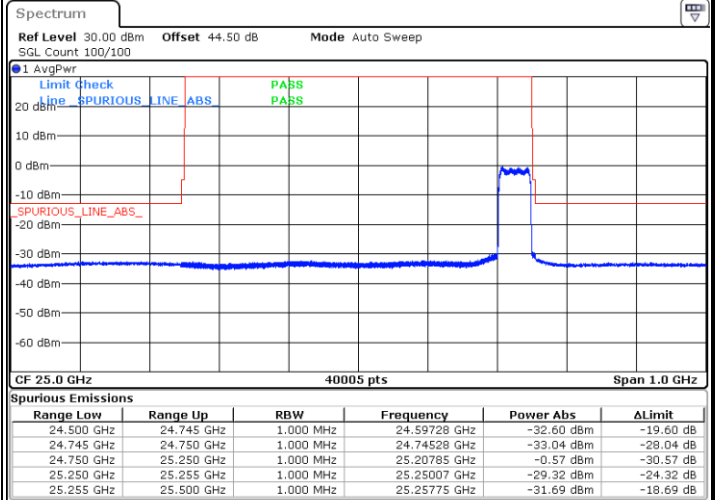
CP-OFDM Module 1

NR Band n258b/ 50MHz / QPSK

Lowest Band Edge / Full RB

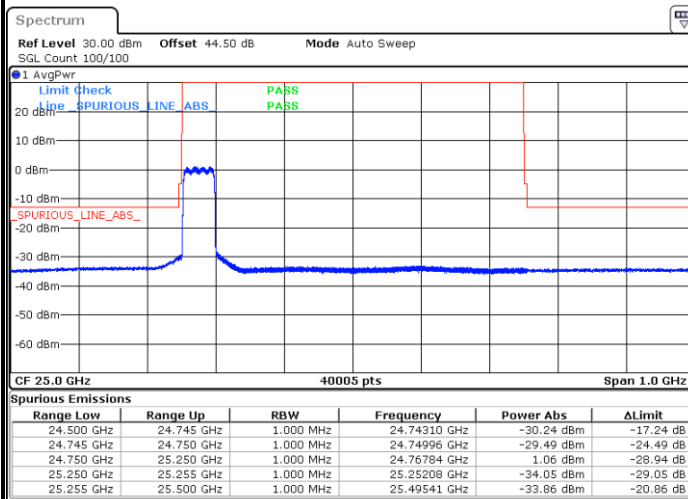


Highest Band Edge / Full RB

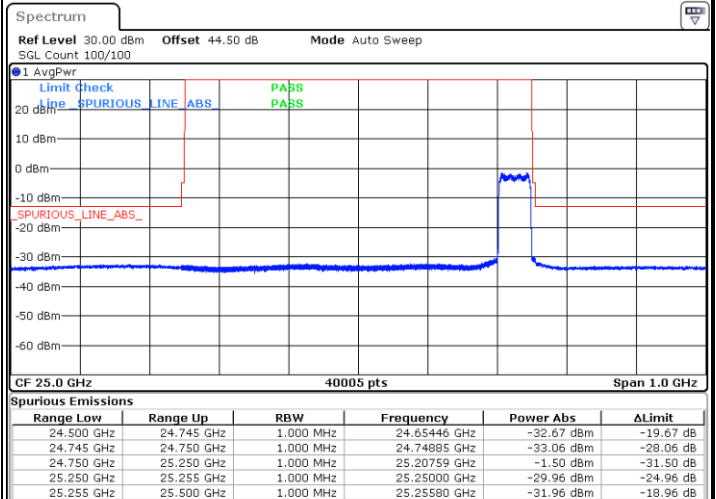


NR Band n258b/ 50MHz / 16QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

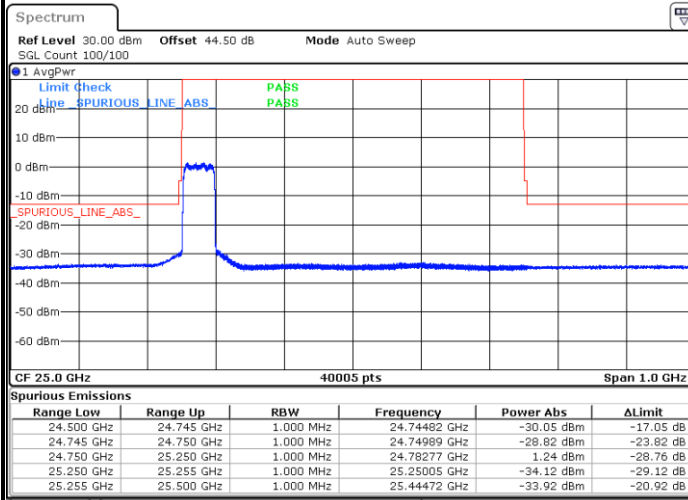




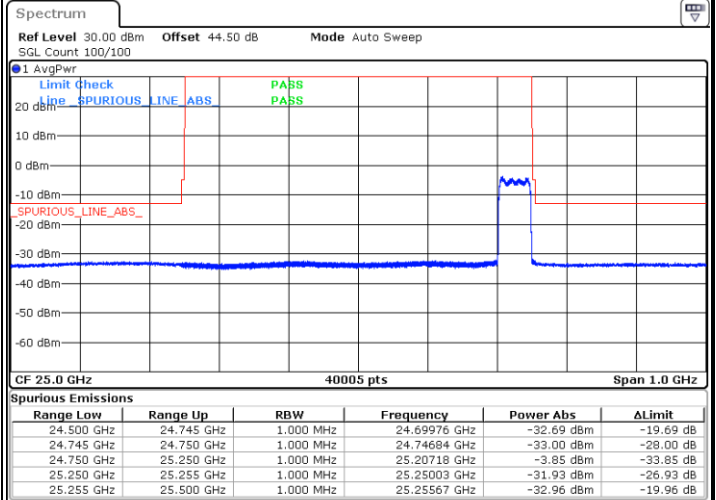
CP-OFDM Module 1

NR Band n258b/ 50MHz / 64QAM

Lowest Band Edge / Full RB

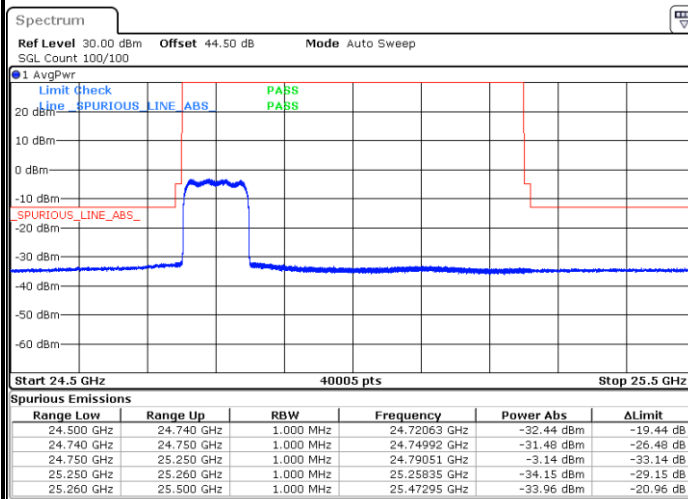


Highest Band Edge / Full RB

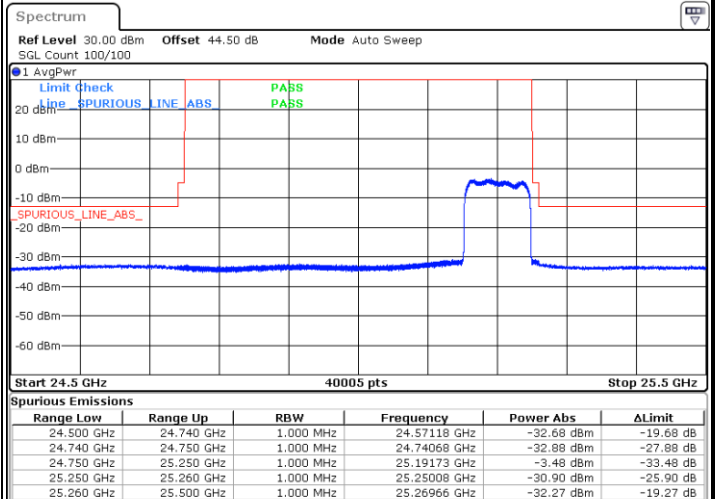


NR Band n258b/ 100MHz / QPSK

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

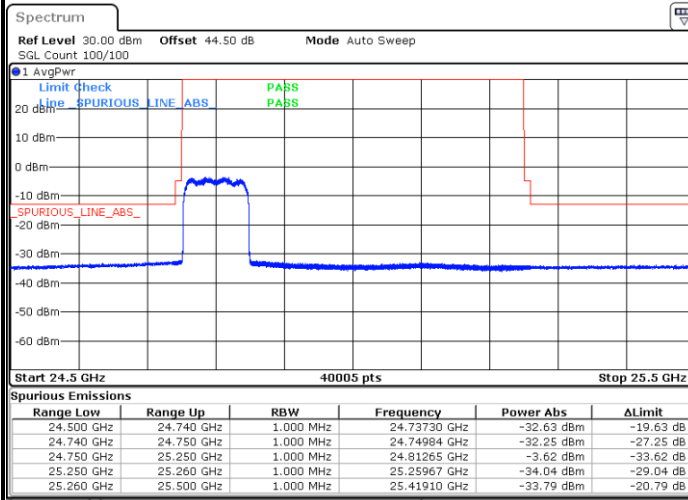




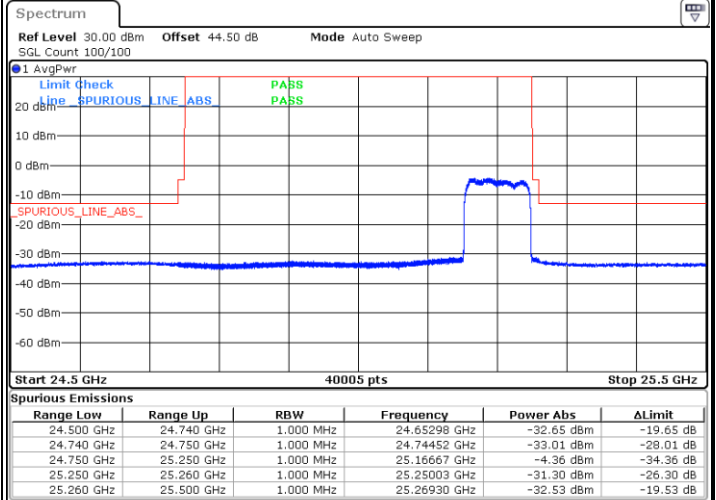
CP-OFDM Module 1

NR Band n258b/ 100MHz / 16QAM

Lowest Band Edge / Full RB

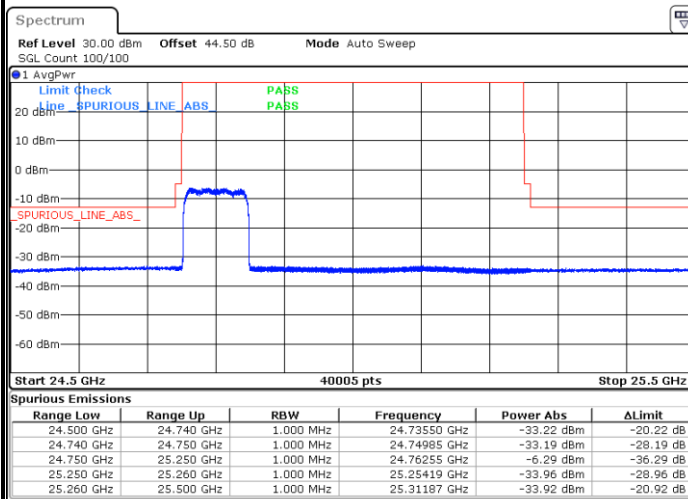


Highest Band Edge / Full RB

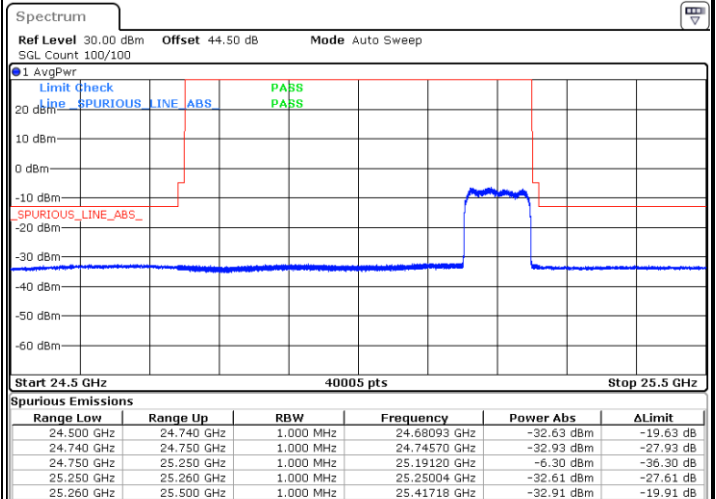


NR Band n258b/ 100MHz / 64QAM

Lowest Band Edge / Full RB



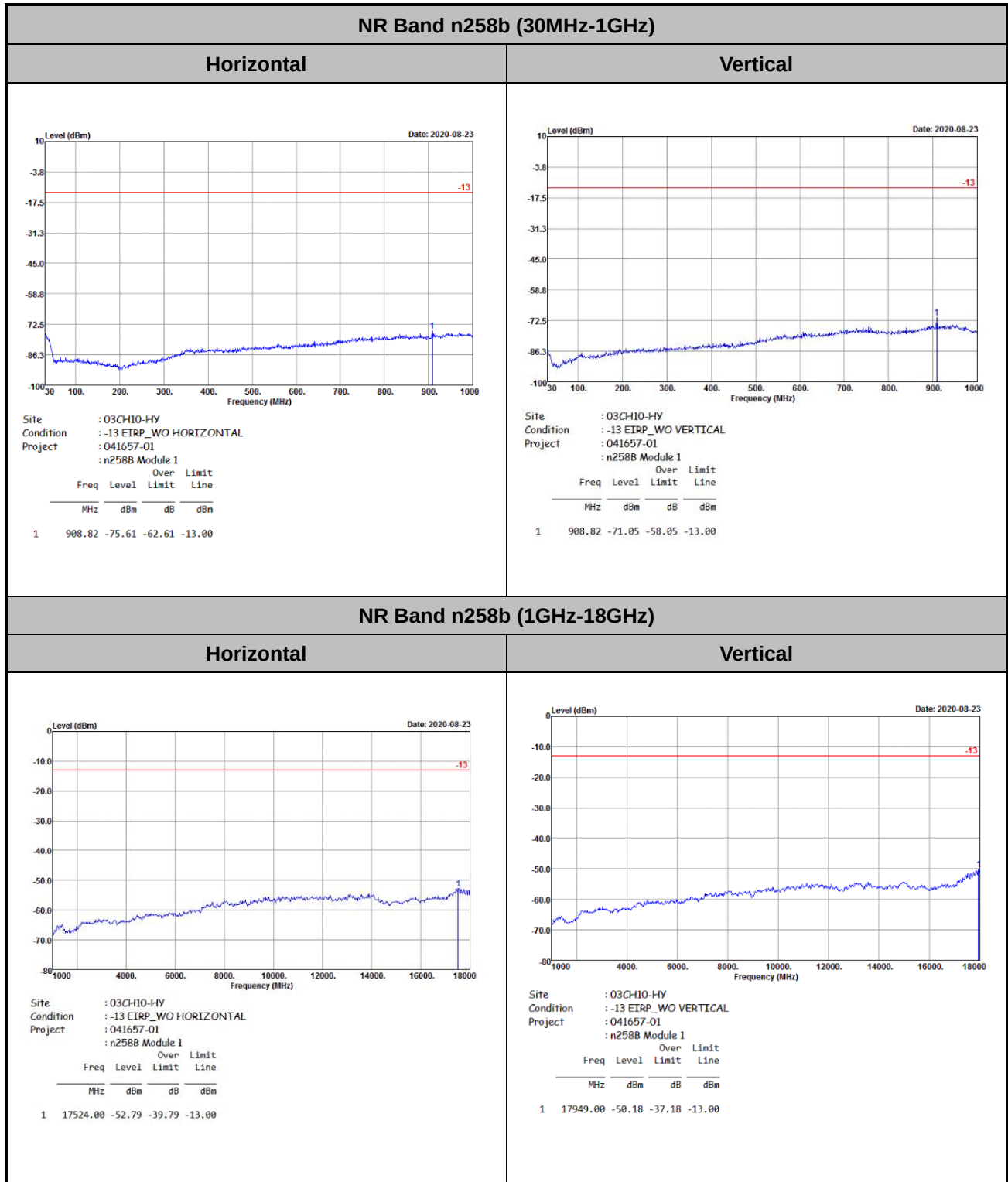
Highest Band Edge / Full RB



Spurious Emission

There is no significant spurious emission signal found for frequency started from 30MHz up to 18GHz.

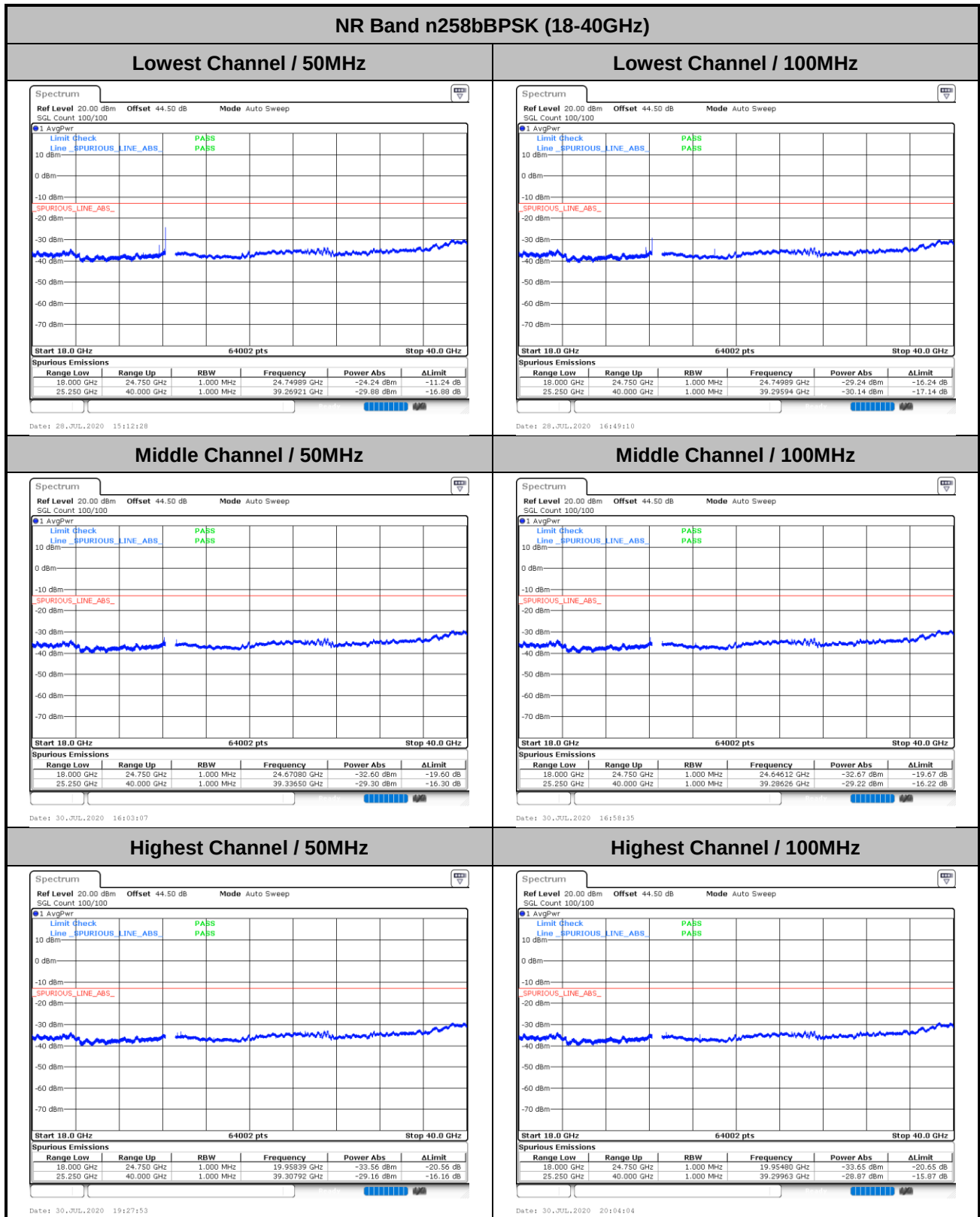
Only the noise floor is reported.





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

DFT-s-OFDM Module 1

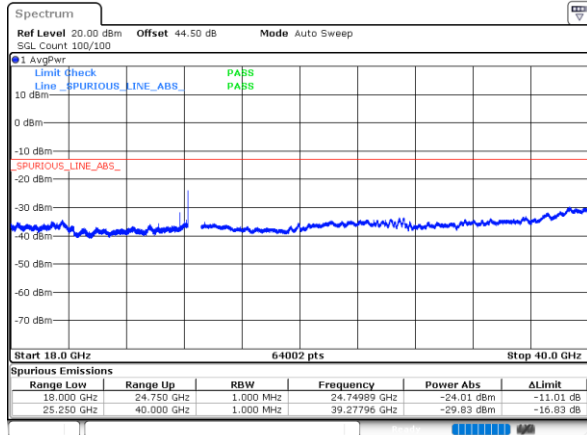




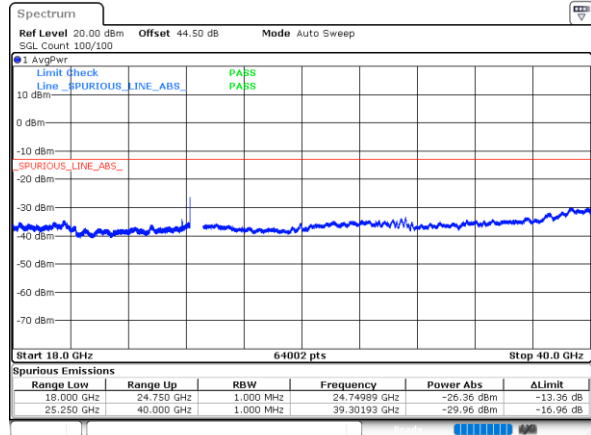
DFT-s-OFDM Module 1

NR Band n258bQPSK (18-40GHz)

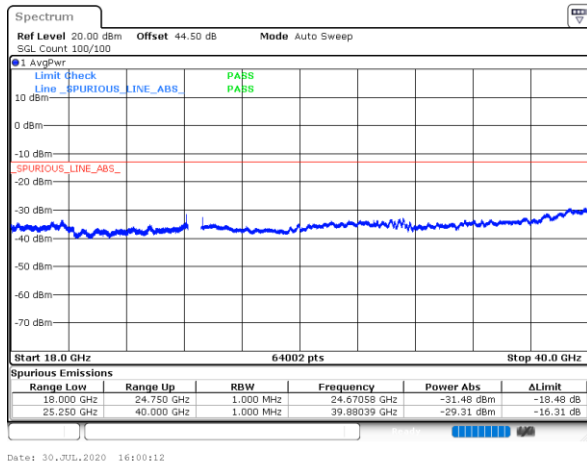
Lowest Channel / 50MHz



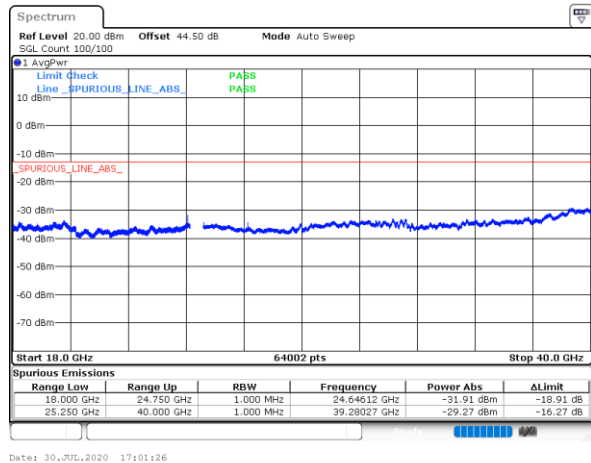
Lowest Channel / 100MHz



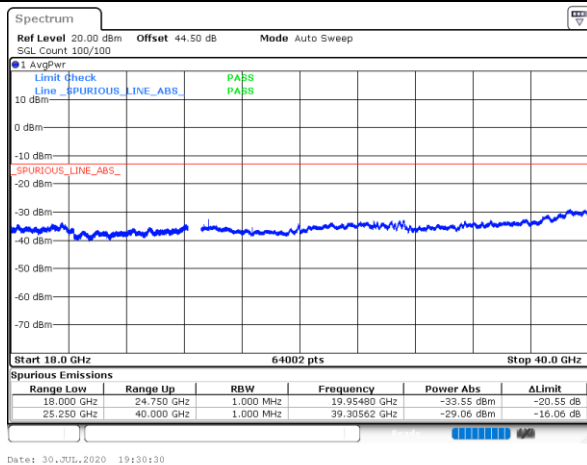
Middle Channel / 50MHz



Middle Channel / 100MHz



Highest Channel / 50MHz



Highest Channel / 100MHz

