

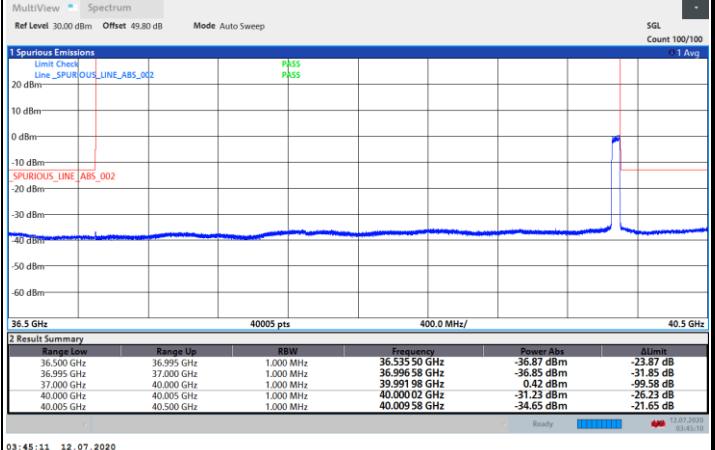
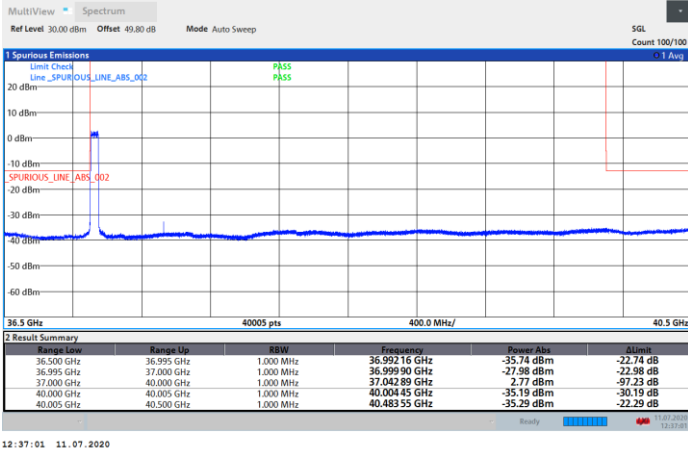


DFT-s-OFDM Module 1

NR Band n260 / 50MHz / BPSK

Lowest Band Edge / Full RB

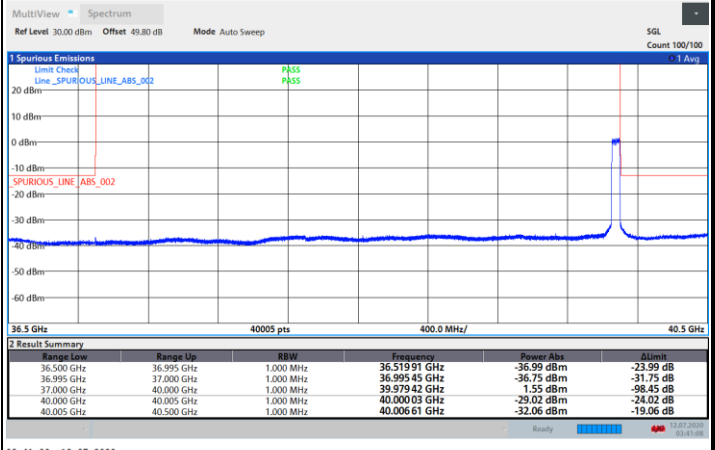
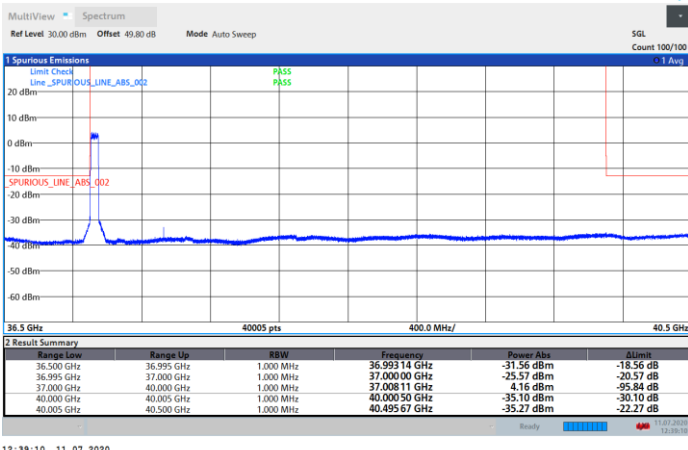
Highest Band Edge / Full RB



NR Band n260 / 50MHz / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

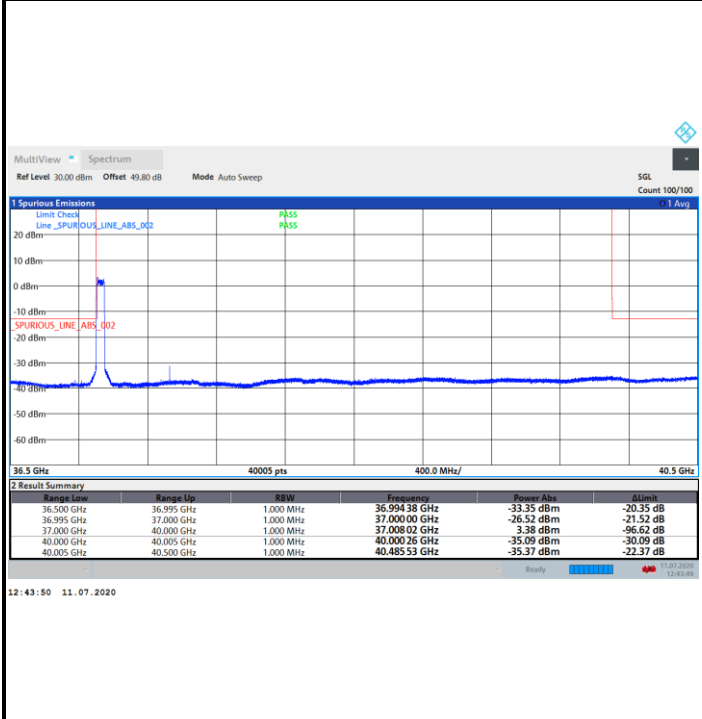




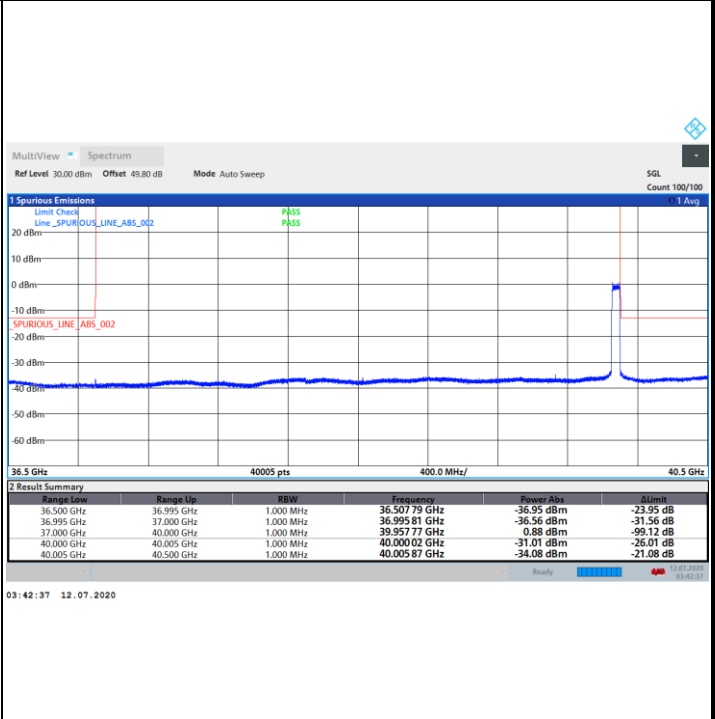
DFT-s-OFDM Module 1

NR Band n260 / 50MHz / 16QAM

Lowest Band Edge / Full RB

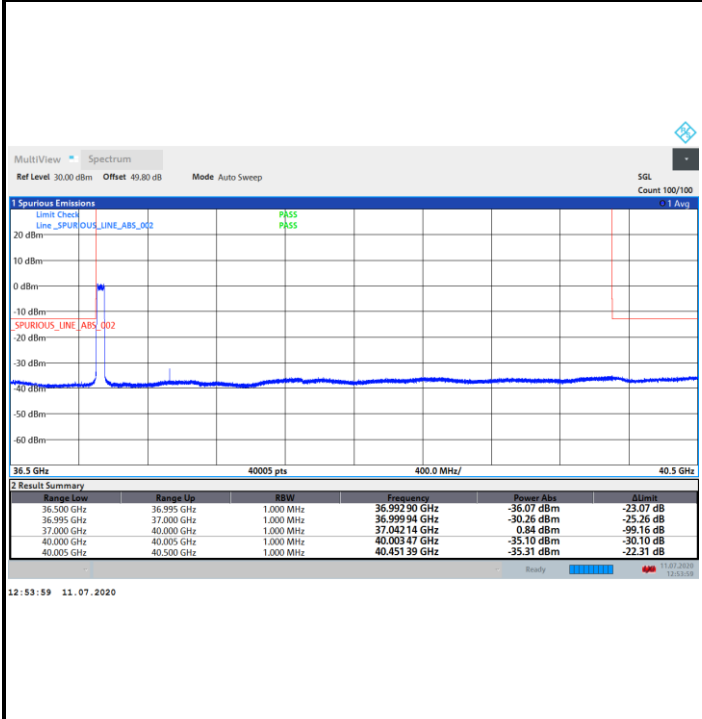


Highest Band Edge / Full RB

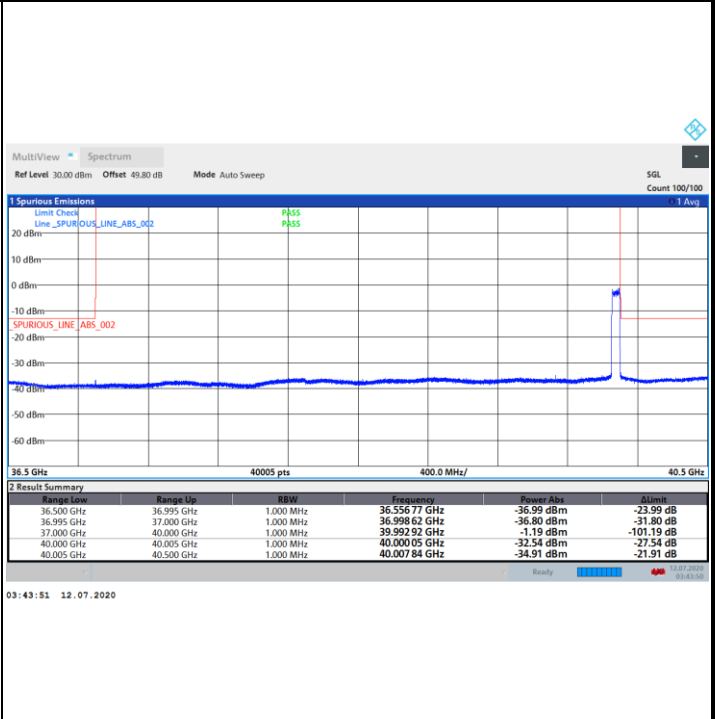


NR Band n260 / 50MHz / 64QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB



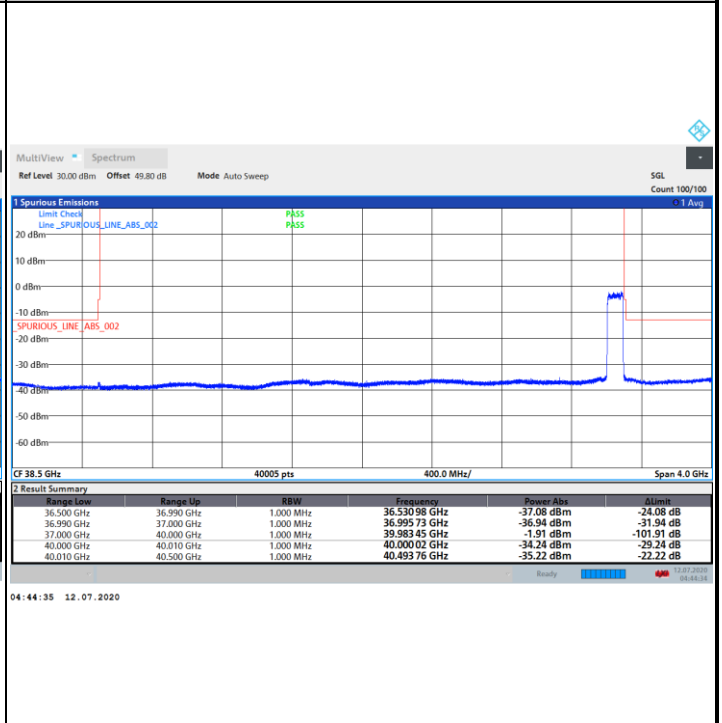


DFT-s-OFDM Module 1

NR Band n260 / 100MHz / BPSK

Lowest Band Edge / Full RB

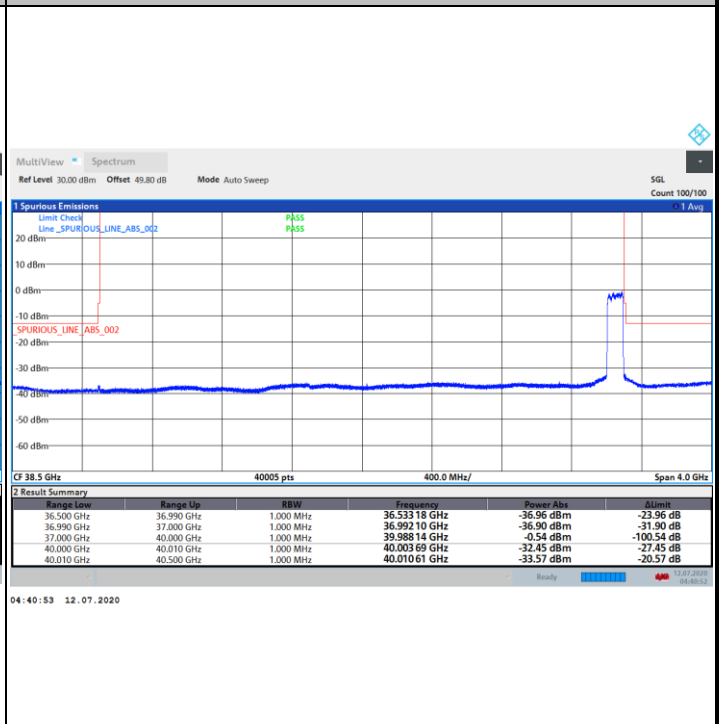
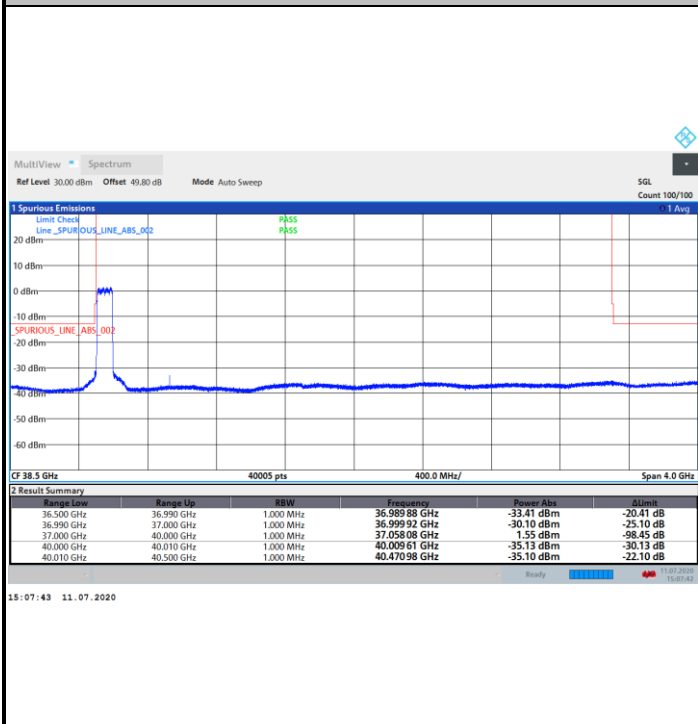
Highest Band Edge / Full RB



NR Band n260 / 100MHz / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

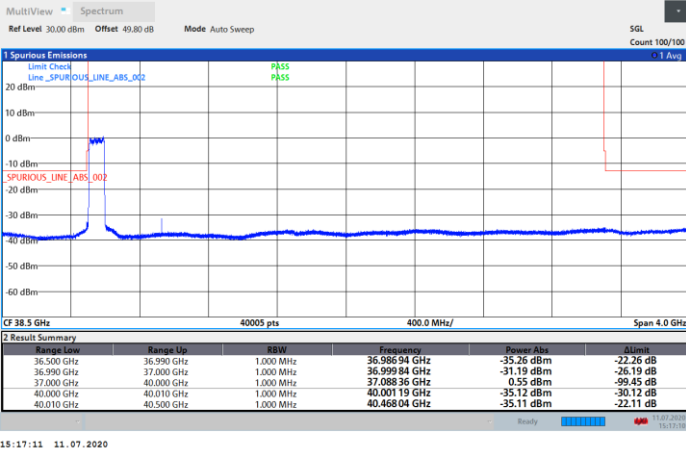




DFT-s-OFDM Module 1

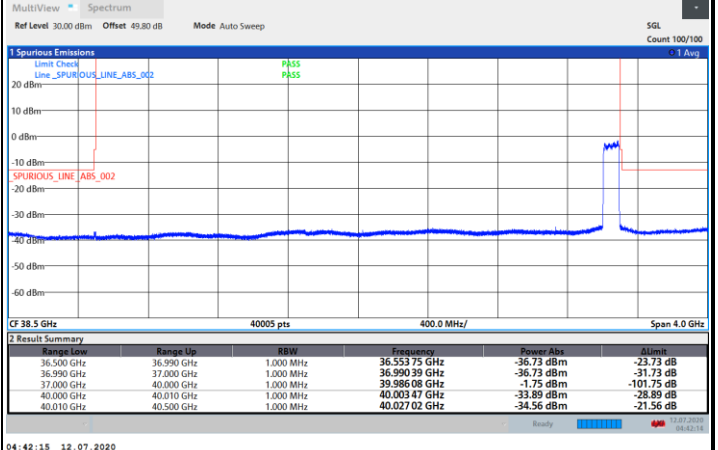
NR Band n260 / 100MHz / 16QAM

Lowest Band Edge / Full RB



15:17:11 11.07.2020

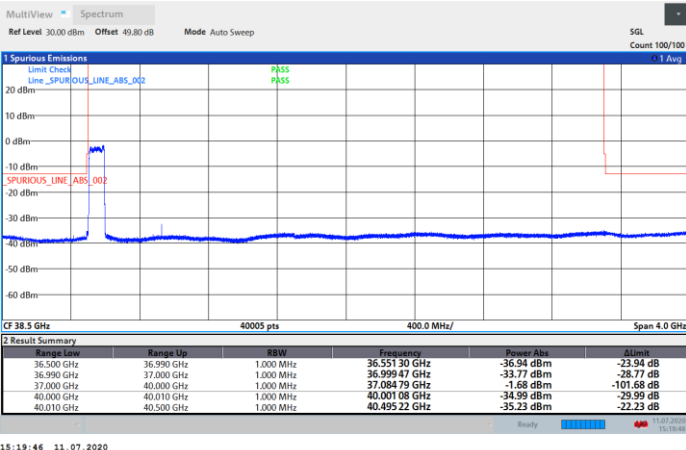
Highest Band Edge / Full RB



04:42:15 12.07.2020

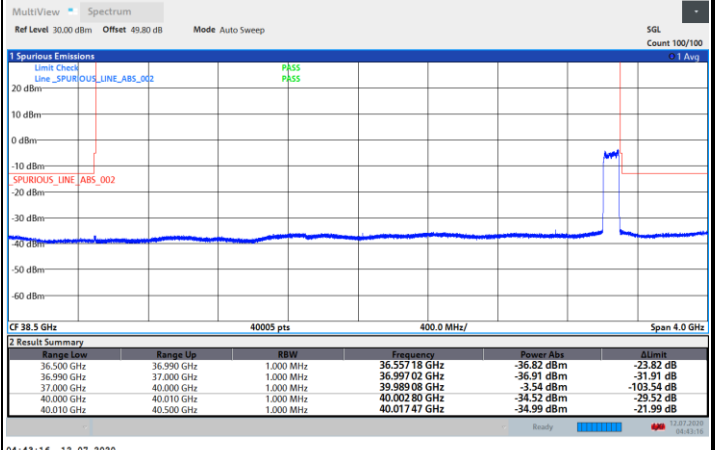
NR Band n260 / 100MHz / 64QAM

Lowest Band Edge / Full RB



15:19:46 11.07.2020

Highest Band Edge / Full RB



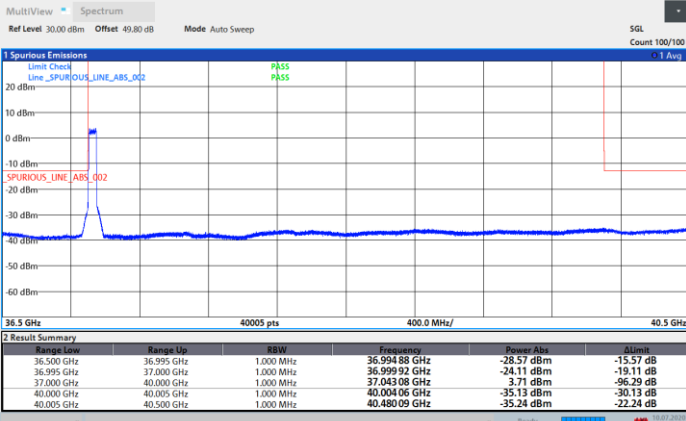
04:43:16 12.07.2020



CP-OFDM Module 0

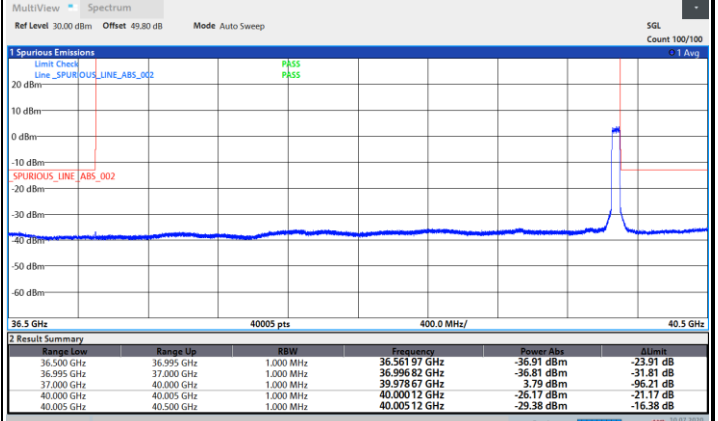
NR Band n260 / 50MHz / QPSK

Lowest Band Edge / Full RB



03:56:58 10.07.2020

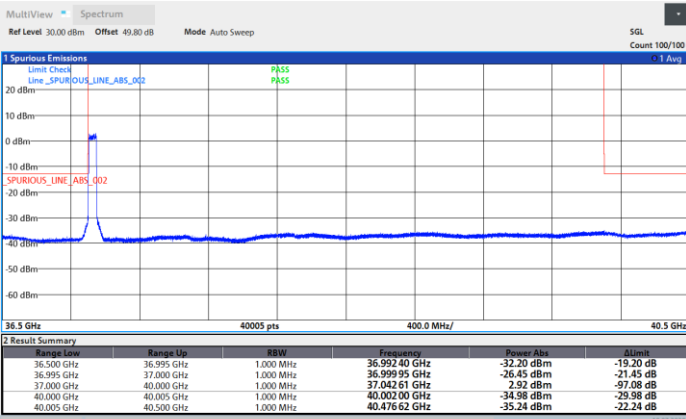
Highest Band Edge / Full RB



06:59:40 10.07.2020

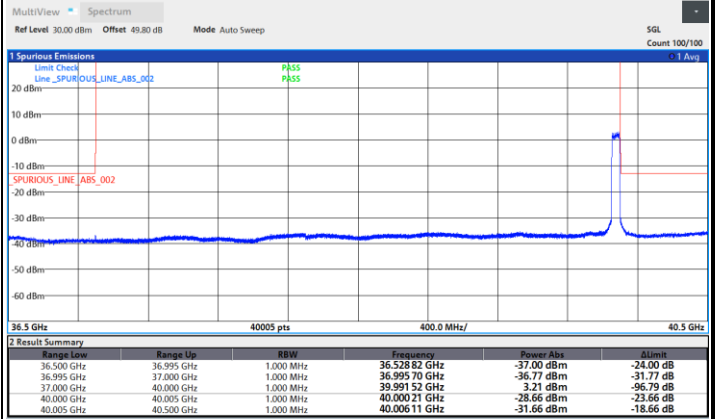
NR Band n260 / 50MHz / 16QAM

Lowest Band Edge / Full RB



03:58:30 10.07.2020

Highest Band Edge / Full RB



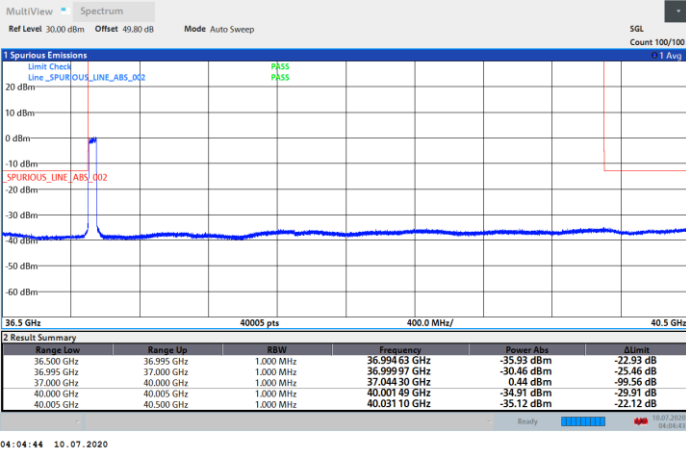
07:00:59 10.07.2020



CP-OFDM Module 0

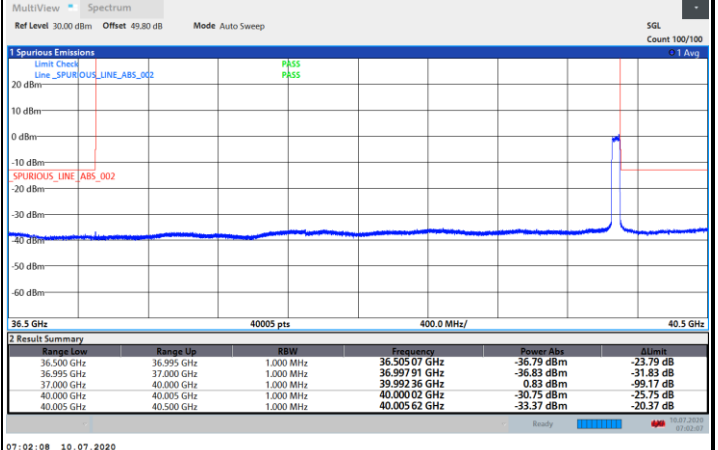
NR Band n260 / 50MHz / 64QAM

Lowest Band Edge / Full RB



04:04:44 10.07.2020

Highest Band Edge / Full RB



07:02:08 10.07.2020

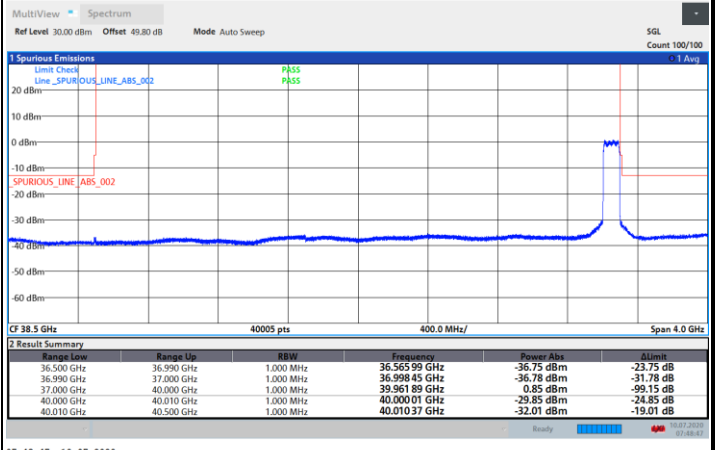
NR Band n260 / 100MHz / QPSK

Lowest Band Edge / Full RB



04:34:24 10.07.2020

Highest Band Edge / Full RB



07:48:47 10.07.2020

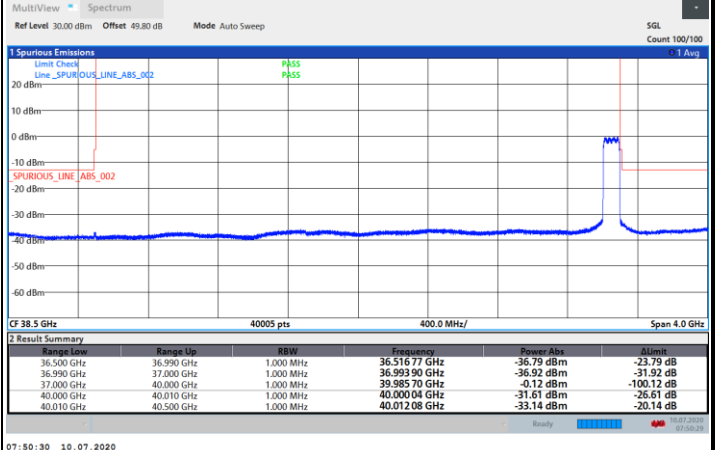
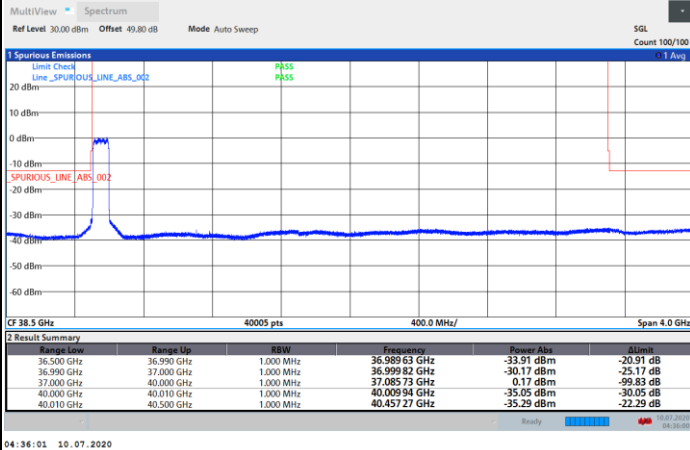


CP-OFDM Module 0

NR Band n260 / 100MHz / 16QAM

Lowest Band Edge / Full RB

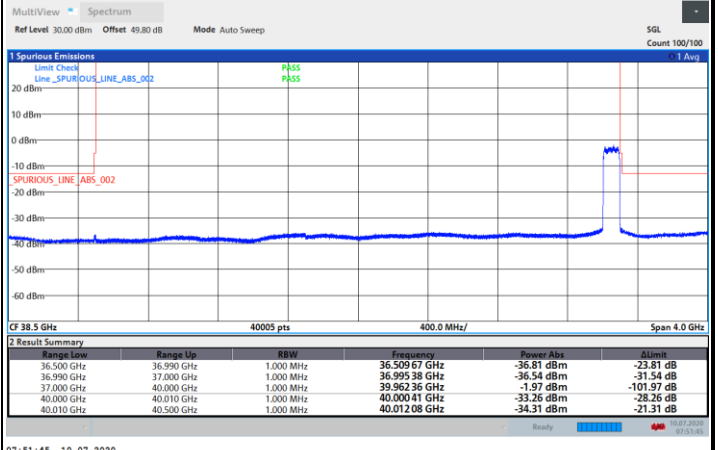
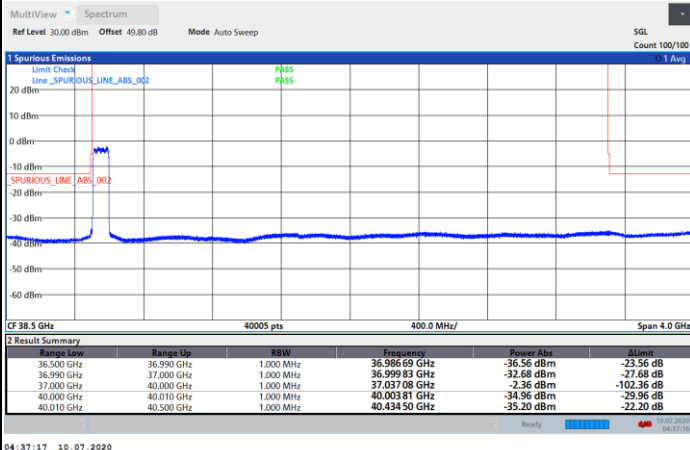
Highest Band Edge / Full RB



NR Band n260 / 100MHz / 64QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

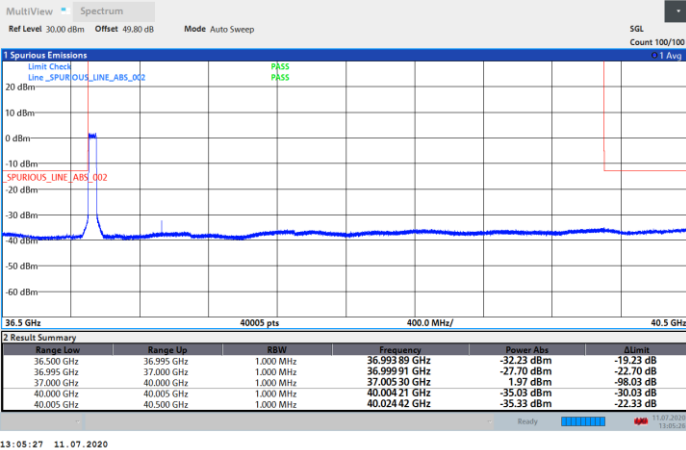




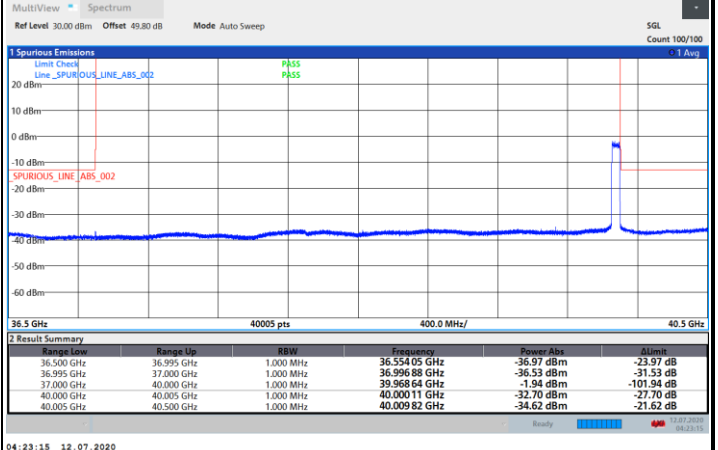
CP-OFDM Module 1

NR Band n260 / 50MHz / QPSK

Lowest Band Edge / Full RB

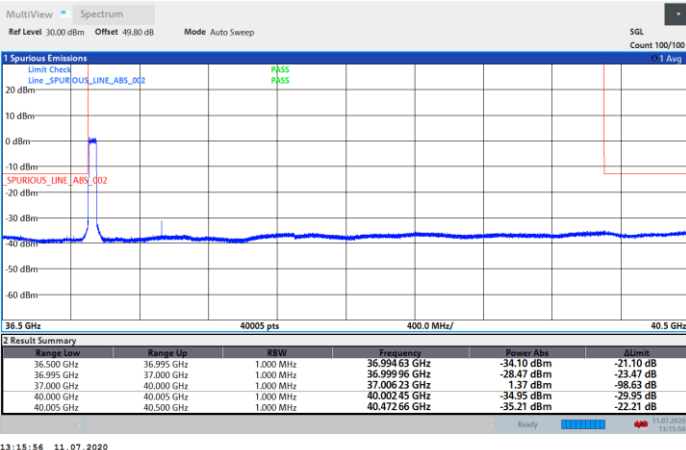


Highest Band Edge / Full RB

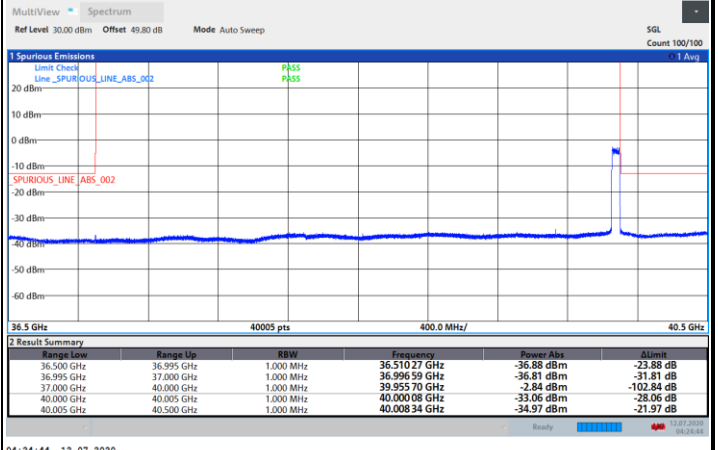


NR Band n260 / 50MHz / 16QAM

Lowest Band Edge / Full RB



Highest Band Edge / Full RB





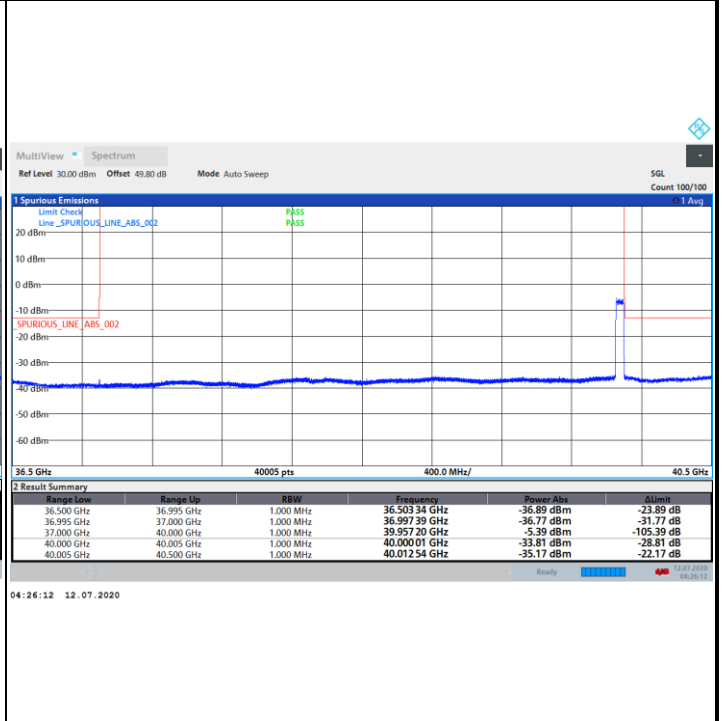
CP-OFDM Module 1

NR Band n260 / 50MHz / 64QAM

Lowest Band Edge / Full RB

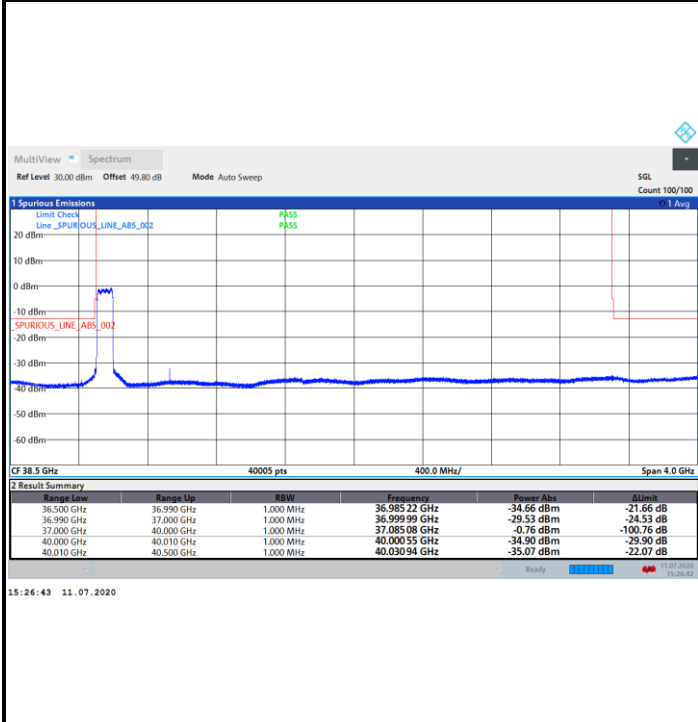


Highest Band Edge / Full RB

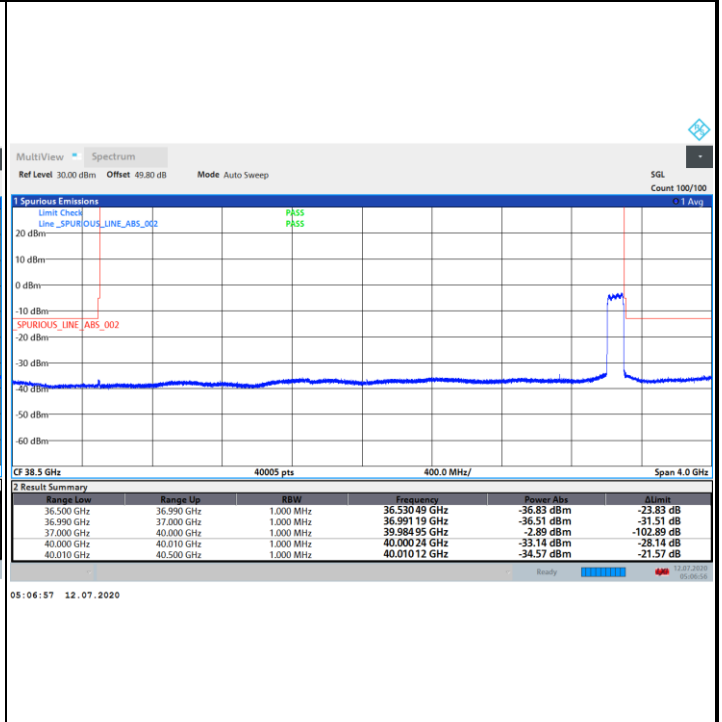


NR Band n260 / 100MHz / QPSK

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

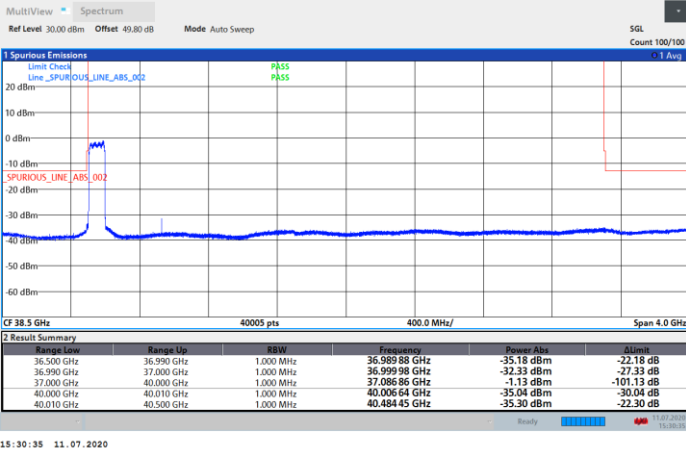




CP-OFDM Module 1

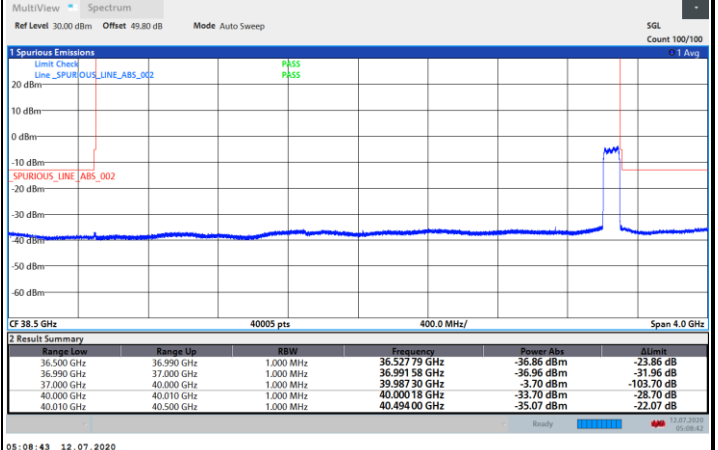
NR Band n260 / 100MHz / 16QAM

Lowest Band Edge / Full RB



15:30:35 11.07.2020

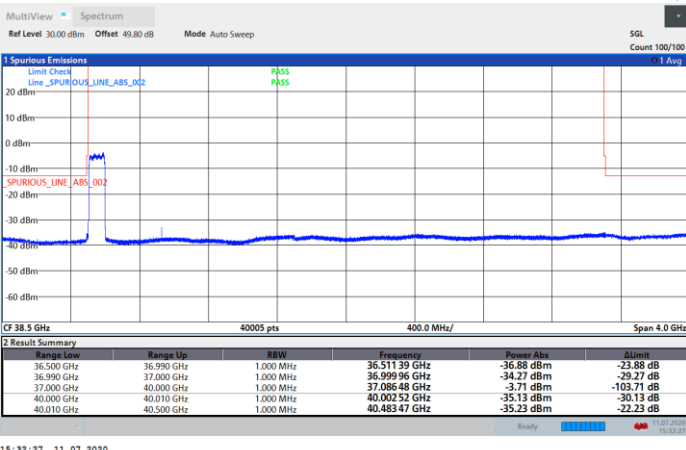
Highest Band Edge / Full RB



05:08:43 12.07.2020

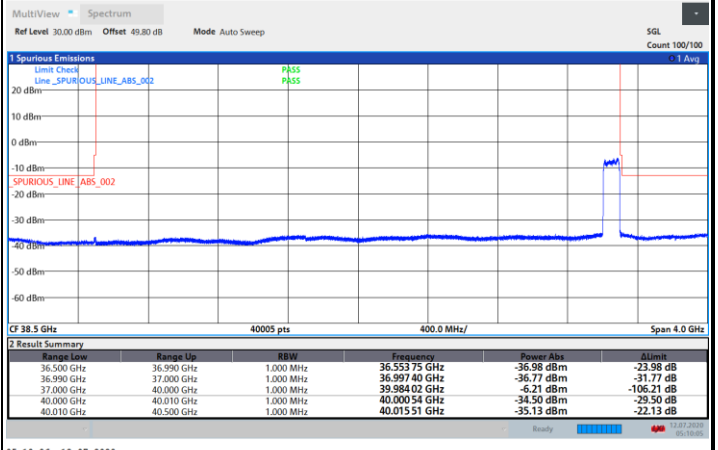
NR Band n260 / 100MHz / 64QAM

Lowest Band Edge / Full RB



15:32:27 11.07.2020

Highest Band Edge / Full RB



05:10:06 12.07.2020

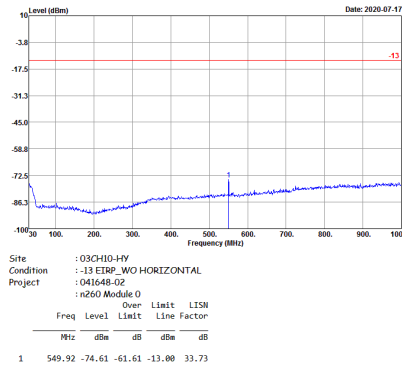


Spurious Emission

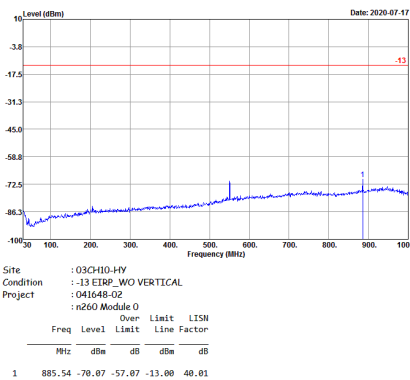
There is no significant spurious emission signal found for frequency started from 9kHz up to 18GHz. Only the noise floor is reported.

NR Band n260 (30MHz-1GHz)

Horizontal



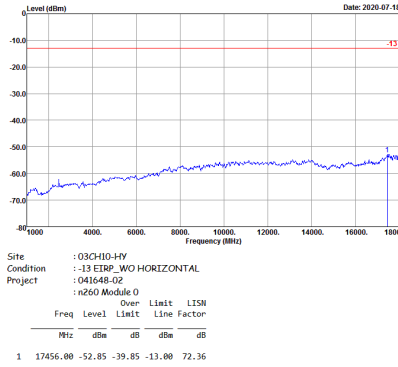
Vertical



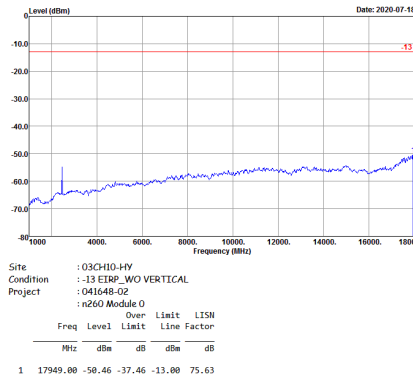


NR Band n260 (1GHz-18GHz)

Horizontal



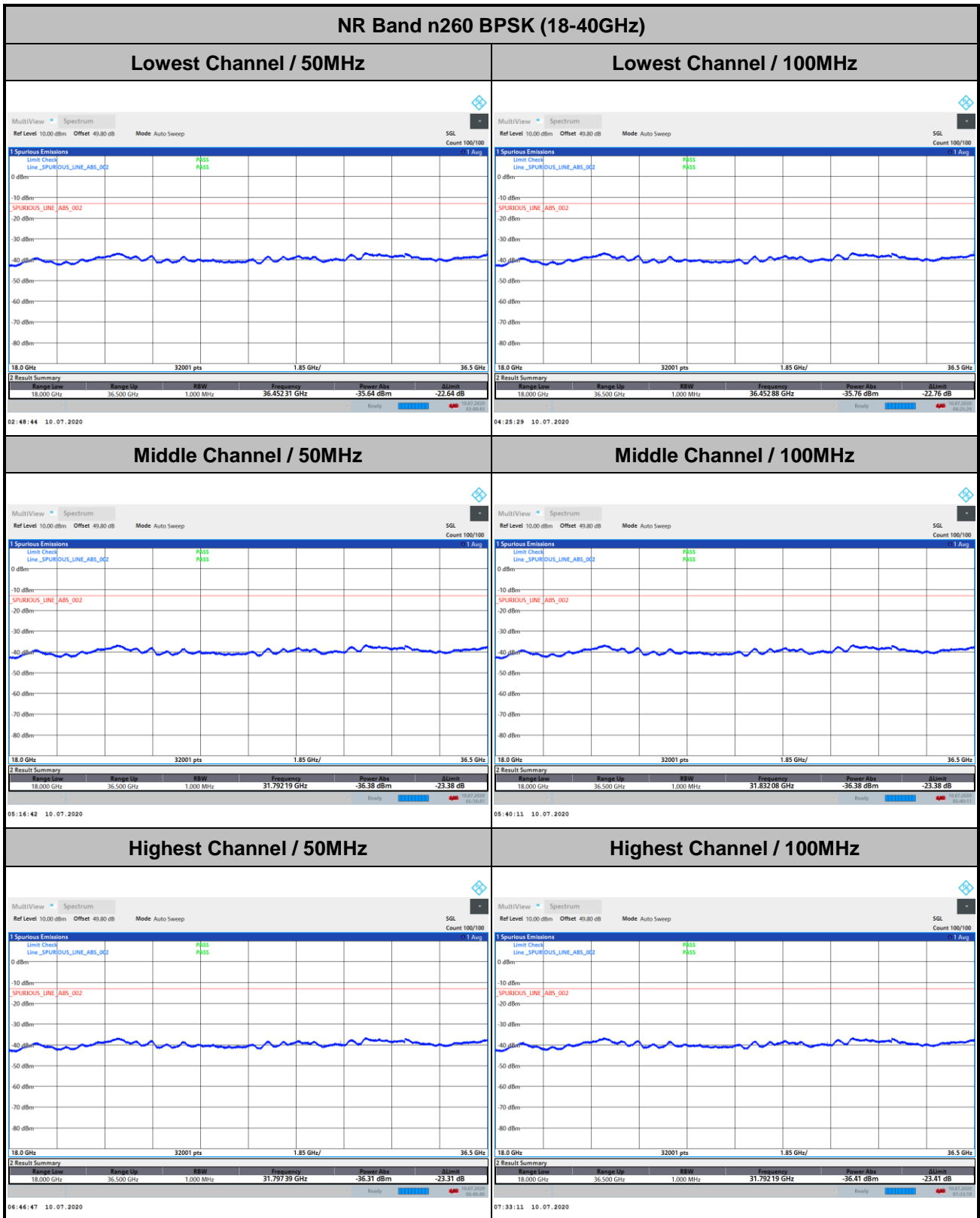
Vertical





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

DFT-s-OFDM Module 0

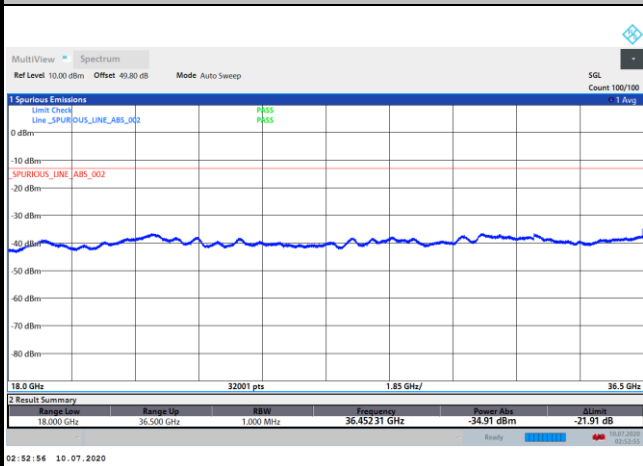




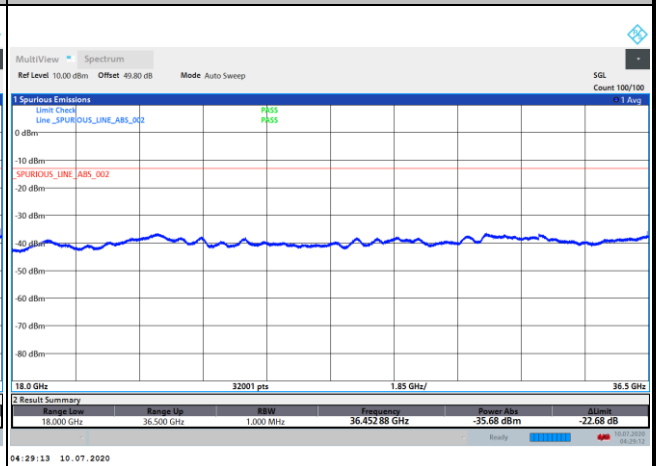
DFT-s-OFDM Module 0

NR Band n260 QPSK (18-40GHz)

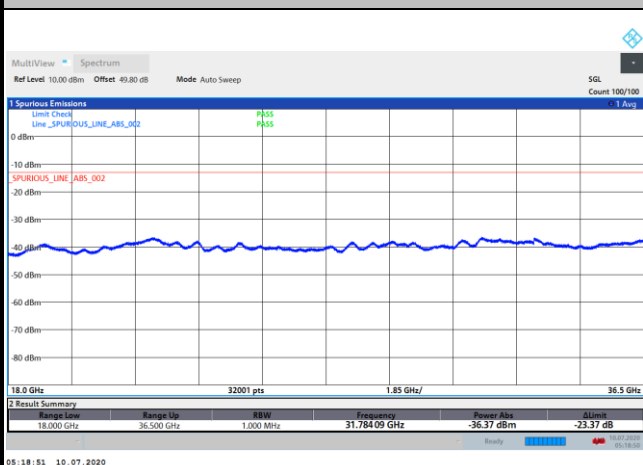
Lowest Channel / 50MHz



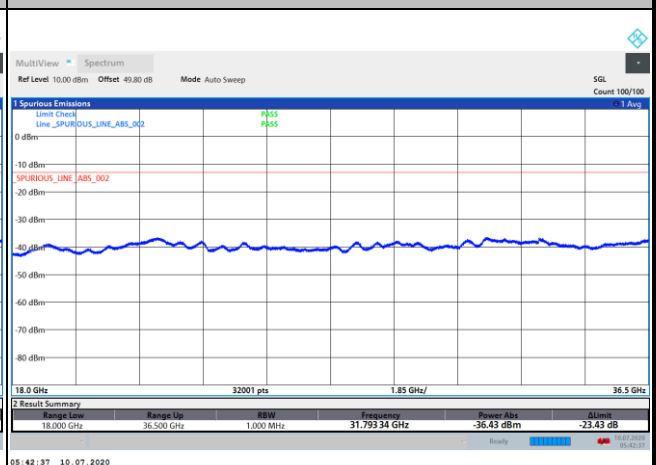
Lowest Channel / 100MHz



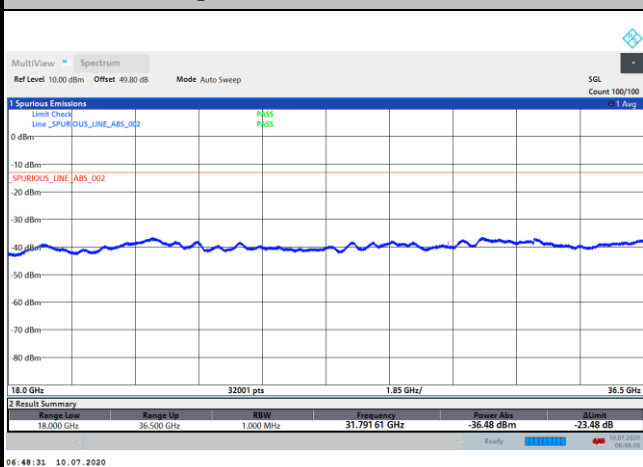
Middle Channel / 50MHz



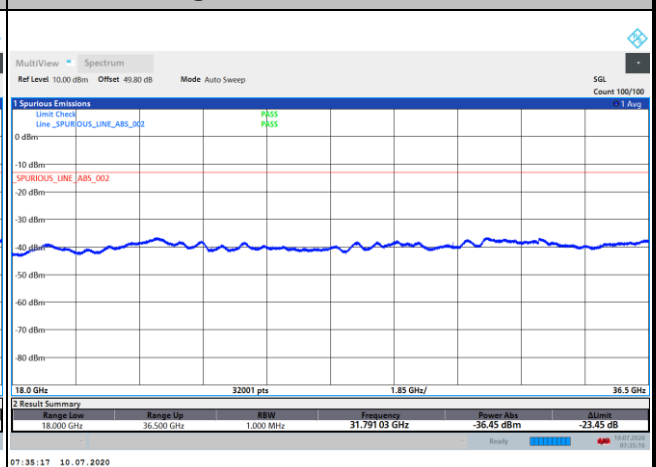
Middle Channel / 100MHz



Highest Channel / 50MHz



Highest Channel / 100MHz

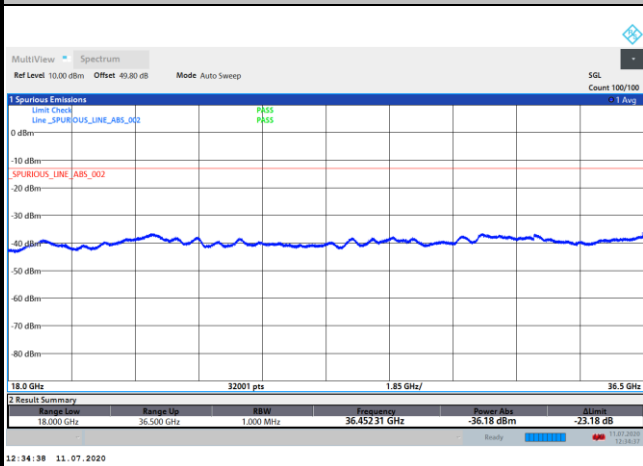




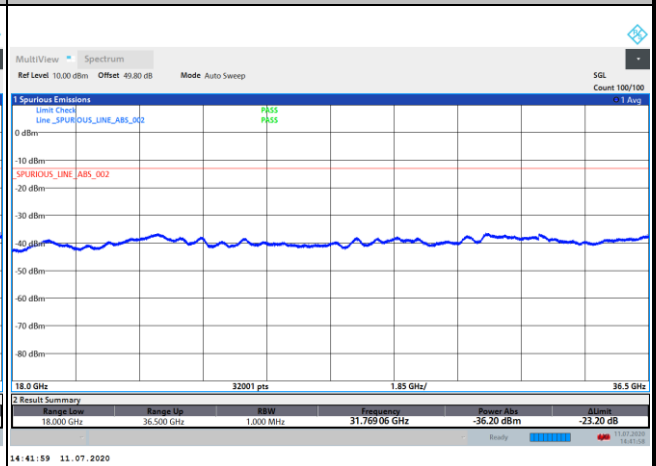
DFT-s-OFDM Module 1

NR Band n260 BPSK (18-40GHz)

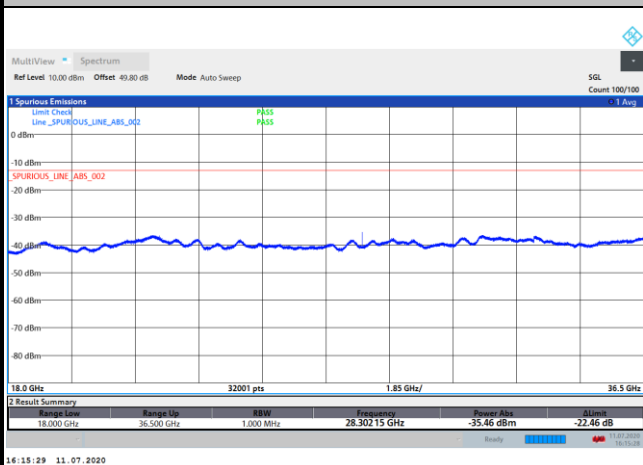
Lowest Channel / 50MHz



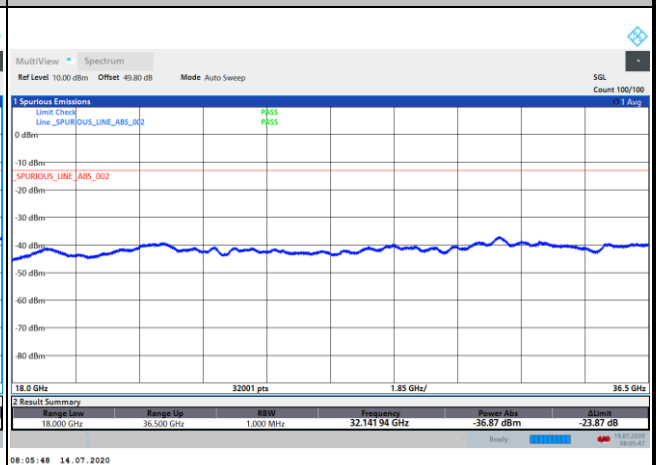
Lowest Channel / 100MHz



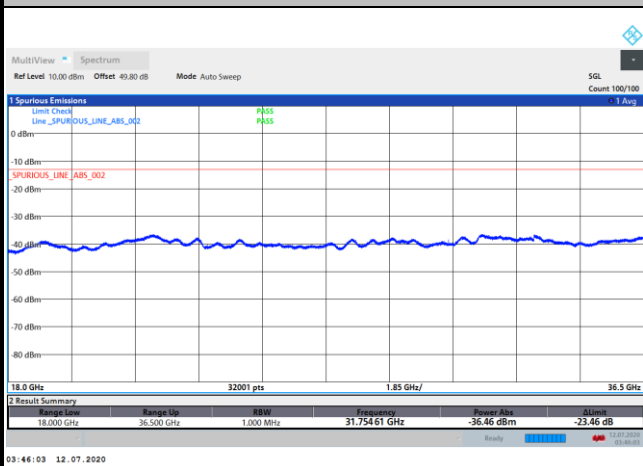
Middle Channel / 50MHz



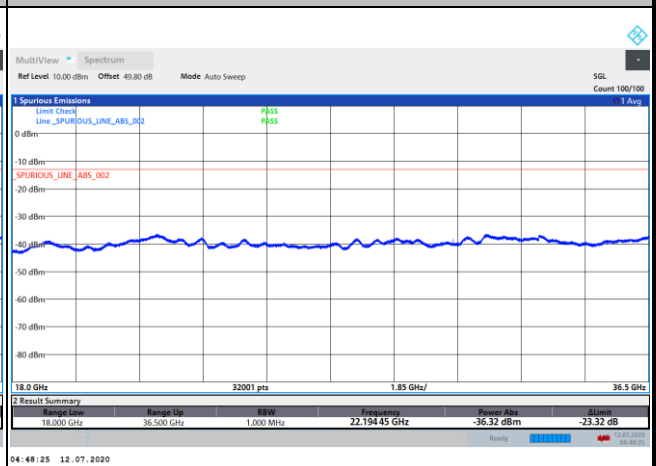
Middle Channel / 100MHz



Highest Channel / 50MHz



Highest Channel / 100MHz

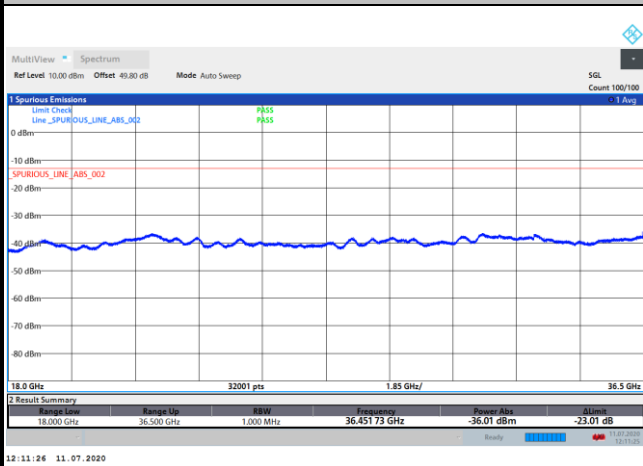




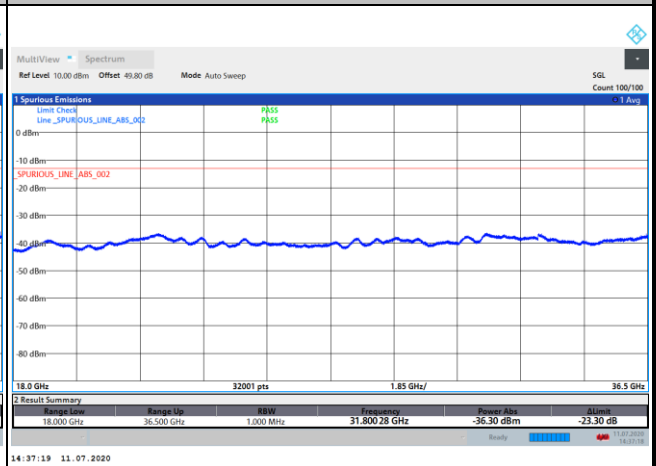
DFT-s-OFDM Module 1

NR Band n260 QPSK (18-40GHz)

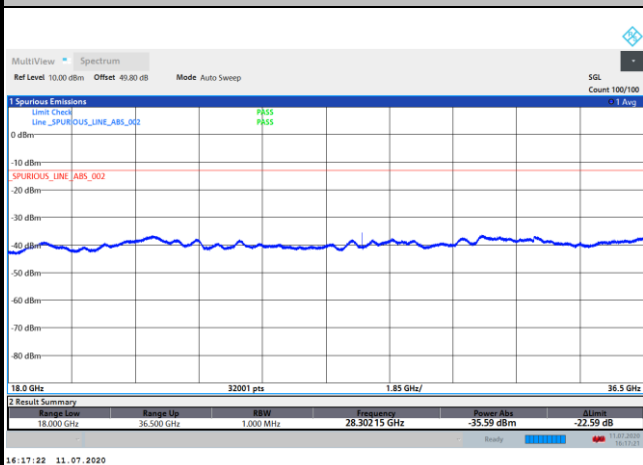
Lowest Channel / 50MHz



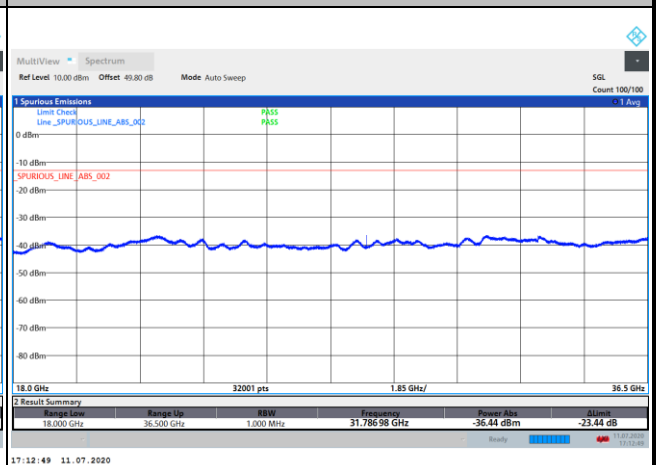
Lowest Channel / 100MHz



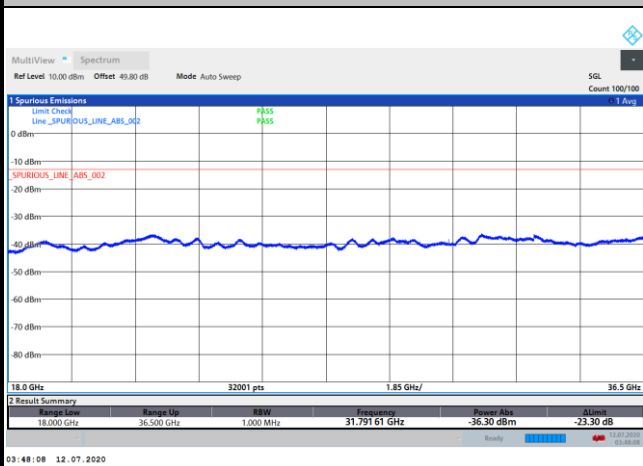
Middle Channel / 50MHz



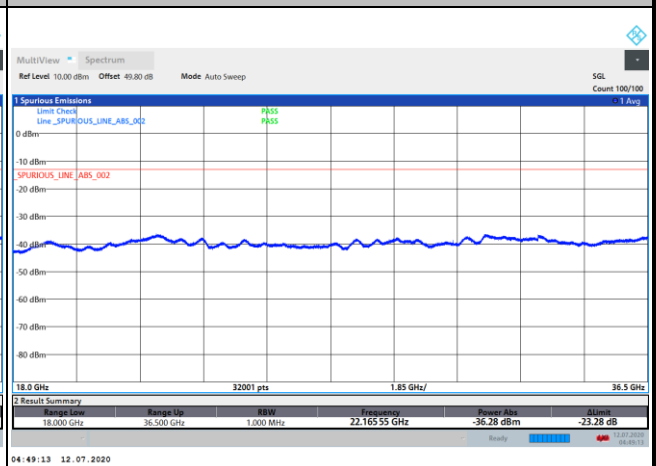
Middle Channel / 100MHz



Highest Channel / 50MHz



Highest Channel / 100MHz

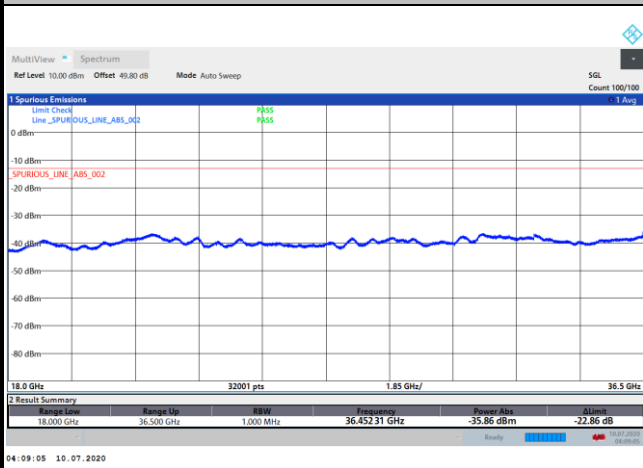




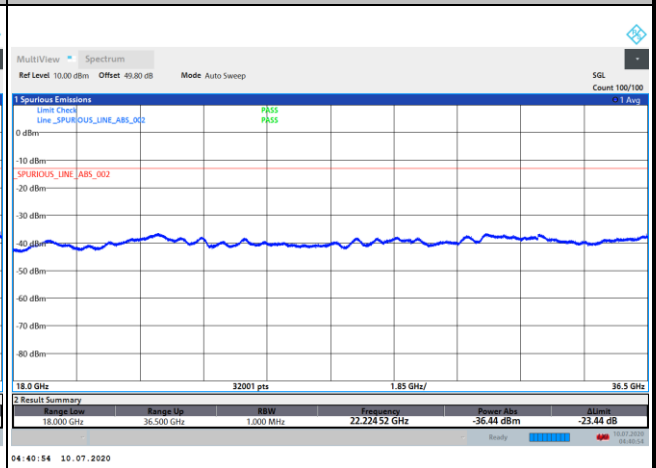
CP-OFDM Module 0

NR Band n260 QPSK (18-40GHz)

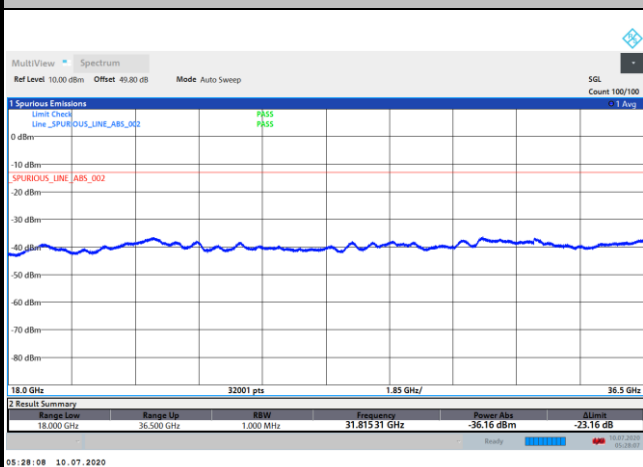
Lowest Channel / 50MHz



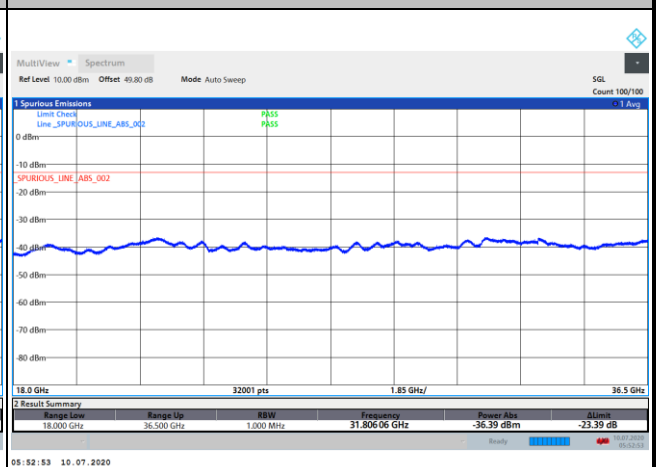
Lowest Channel / 100MHz



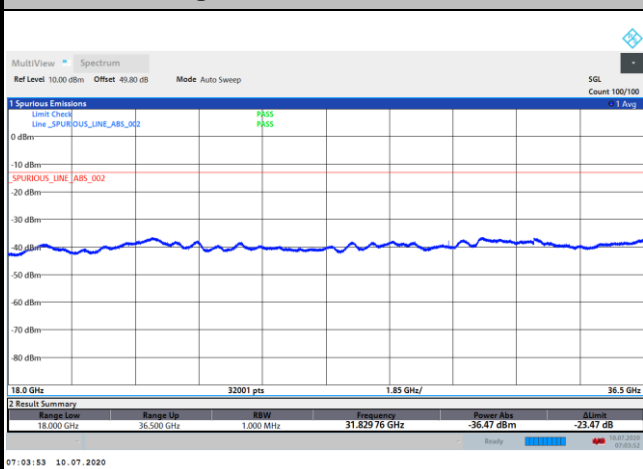
Middle Channel / 50MHz



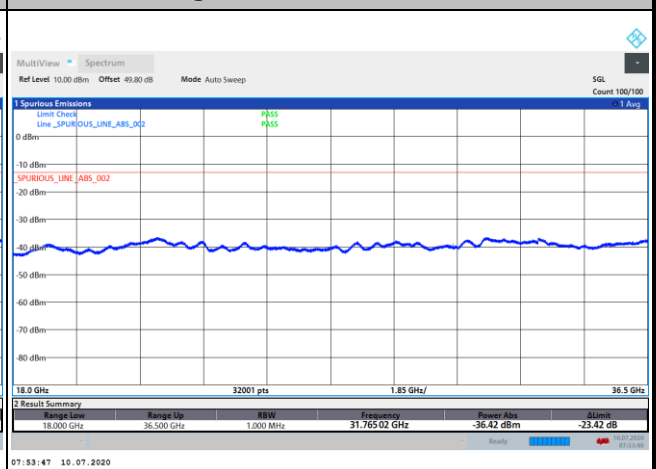
Middle Channel / 100MHz



Highest Channel / 50MHz



Highest Channel / 100MHz

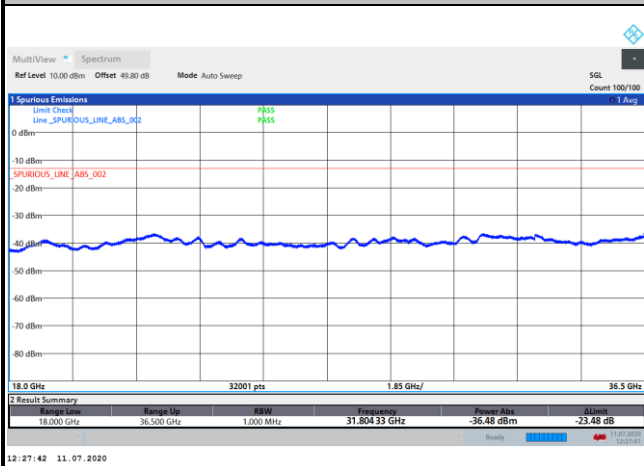




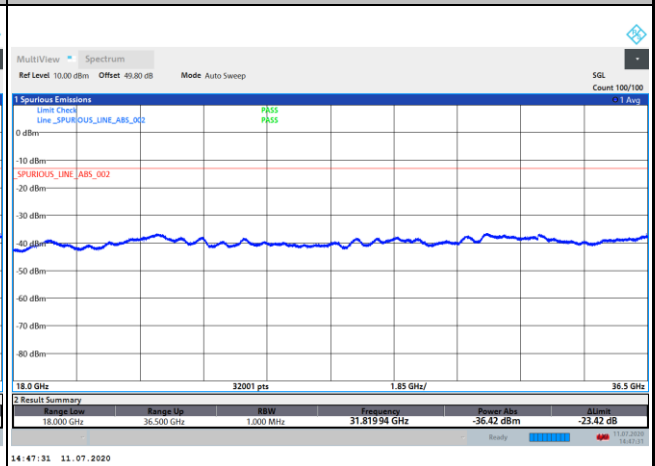
CP-OFDM Module 1

NR Band n260 QPSK (18-40GHz)

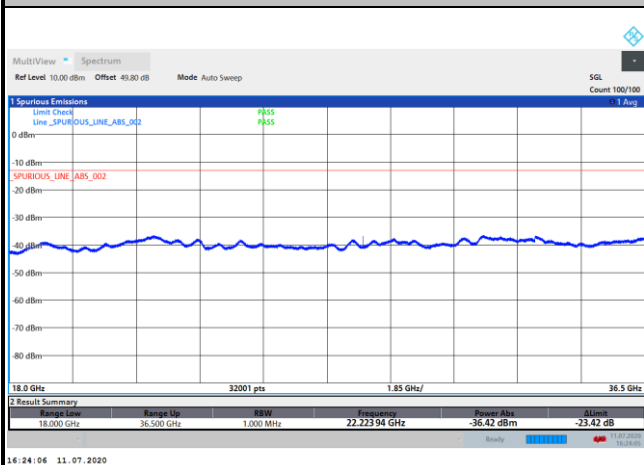
Lowest Channel / 50MHz



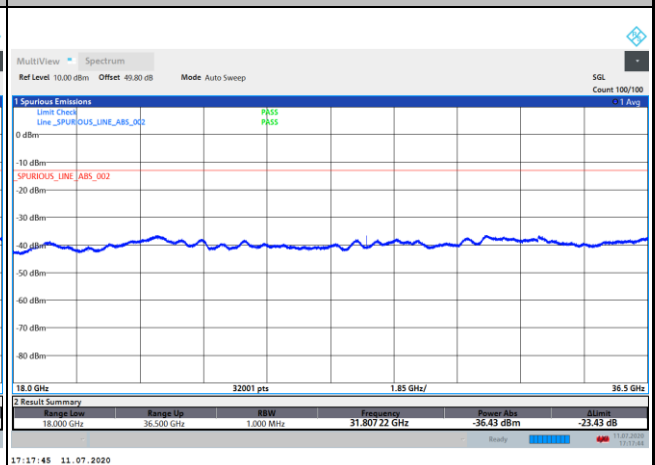
Lowest Channel / 100MHz



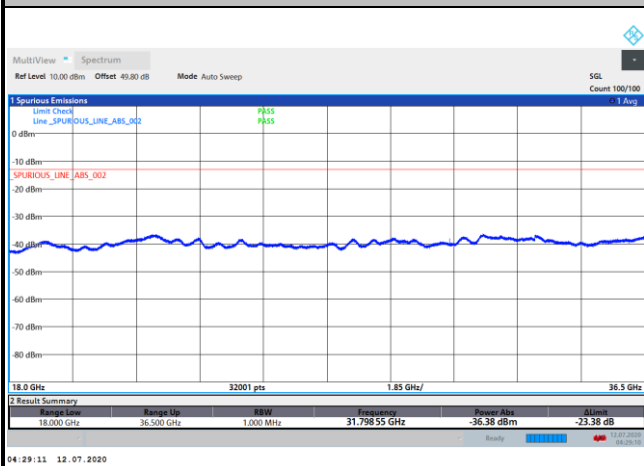
Middle Channel / 50MHz



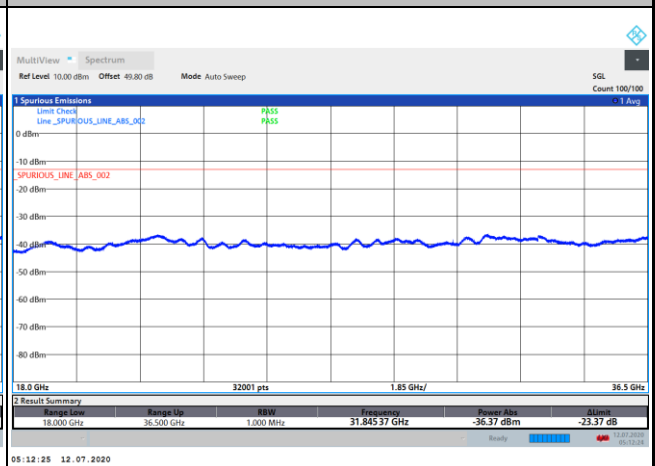
Middle Channel / 100MHz



Highest Channel / 50MHz

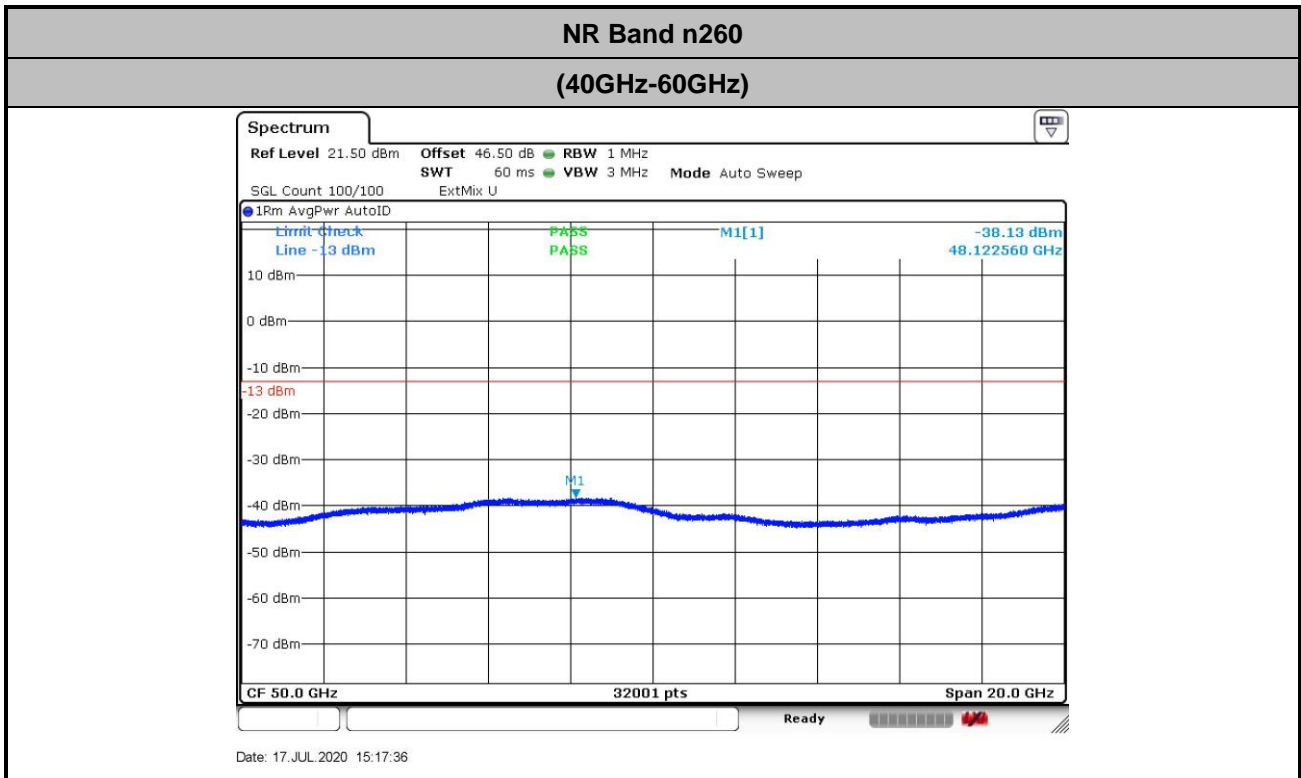


Highest Channel / 100MHz



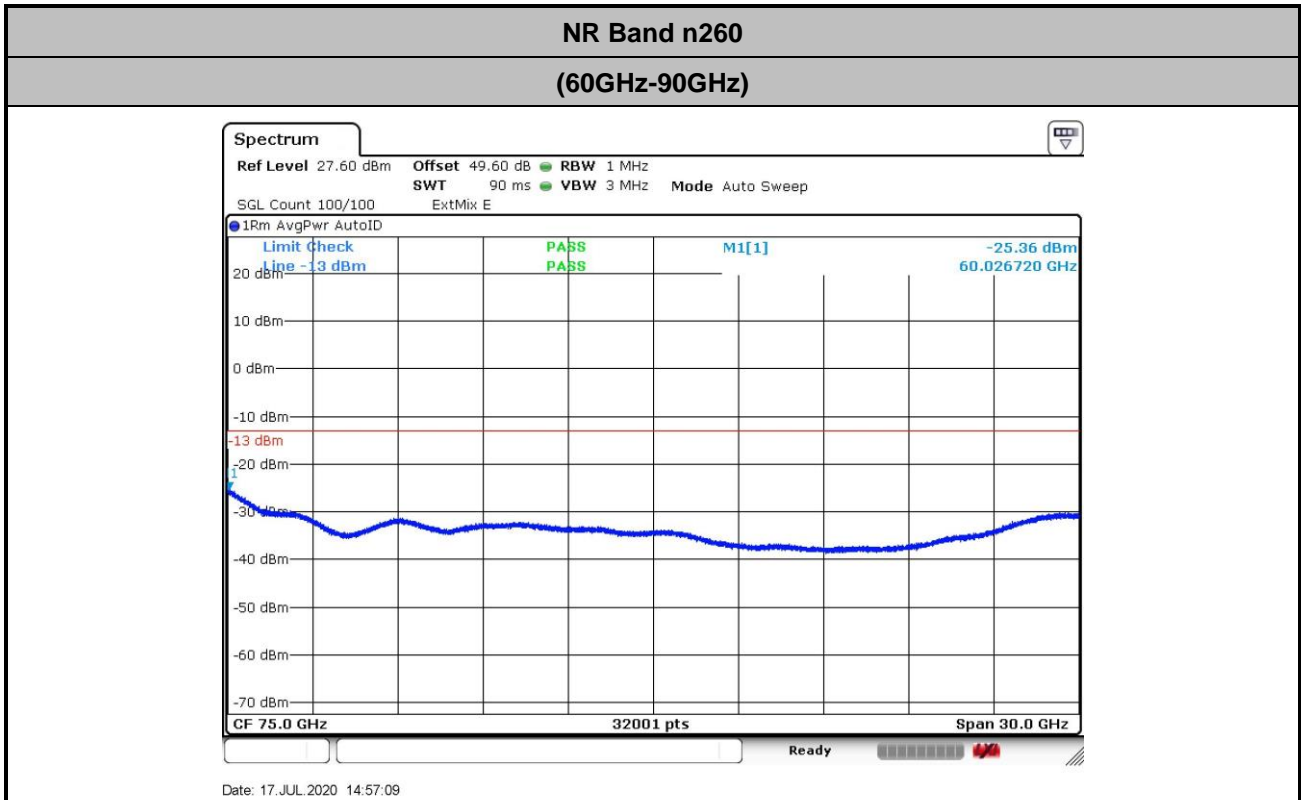


There is no significant spurious emission signal found for frequency started from 40GHz up to 200GHz. Only the noise floor is reported.



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

$$= 42.1 + 2.2 + 107 + 20\log(1) - 104.8 = 46.5 \text{ (dB)}$$

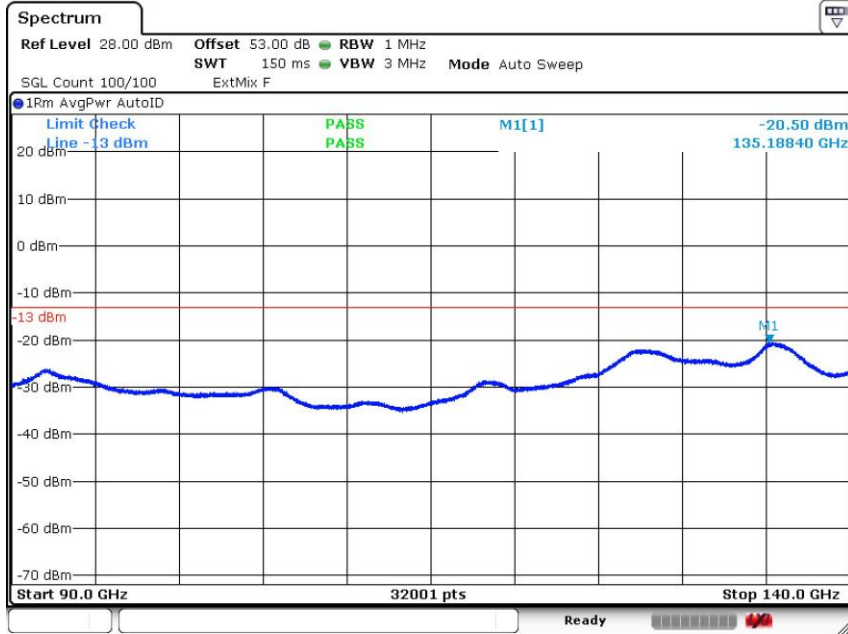


$$\begin{aligned}
 \text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 \\
 &= 47.2 + 2.2 + 107 + 20\log(1) - 104.8 = 49.6 \text{ (dB)}
 \end{aligned}$$



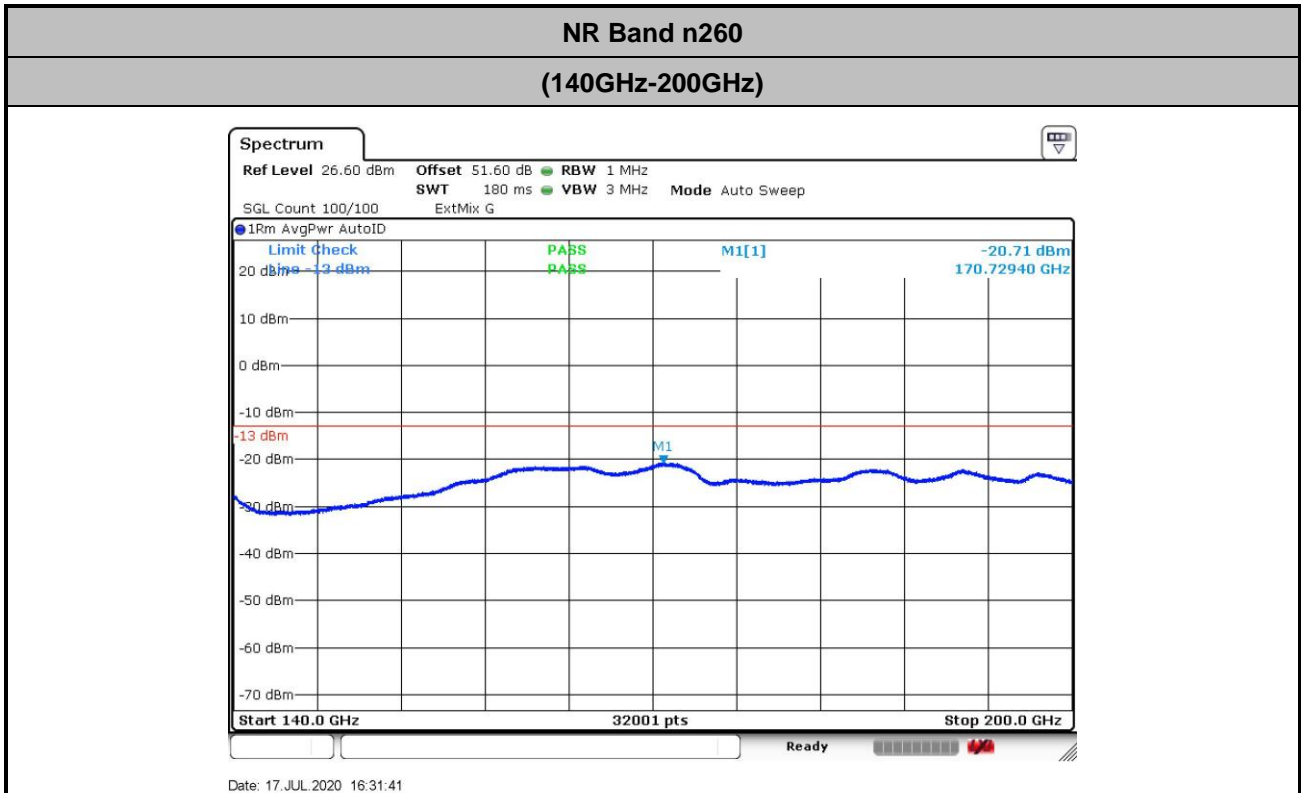
NR Band n260

(90GHz-140GHz)



Date: 17 JUL 2020 16:06:37

$$\begin{aligned}
 \text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 \\
 &= 48.8 + 2 + 107 + 20\log(1) - 104.8 = 53 \text{ (dB)}
 \end{aligned}$$



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

$$= 53.4 + 2 + 107 + 20\log(0.5) - 104.8 = 51.6 \text{ (dB)}$$



Frequency Stability

Test Conditions		NR Band n261 / Middle Channel			Limit
Temperature (°C)	Voltage (Volt)	CW tone			Note 2.
		Frequency (GHz)	Deviation (kHz)	Deviation (ppm)	Result
50	Normal Voltage	38.50002195	-20.848	0.542	Pass
40	Normal Voltage	38.50008984	-88.741	2.305	
30	Normal Voltage	38.50016543	-164.334	4.268	
20(Ref.)	Normal Voltage	38.5000011	0.000	0.000	
10	Normal Voltage	38.50026647	-265.374	6.893	
0	Normal Voltage	38.50027262	-271.523	7.053	
-10	Normal Voltage	38.50025313	-252.025	6.546	
-20	Normal Voltage	38.50021623	-215.129	5.588	
-30	Normal Voltage	38.50021348	-212.379	5.516	
20	Maximum Voltage	38.50006429	-63.194	1.641	
20	Normal Voltage	38.50005984	-58.744	1.526	
20	Battery End Point	38.50006639	-65.294	1.696	

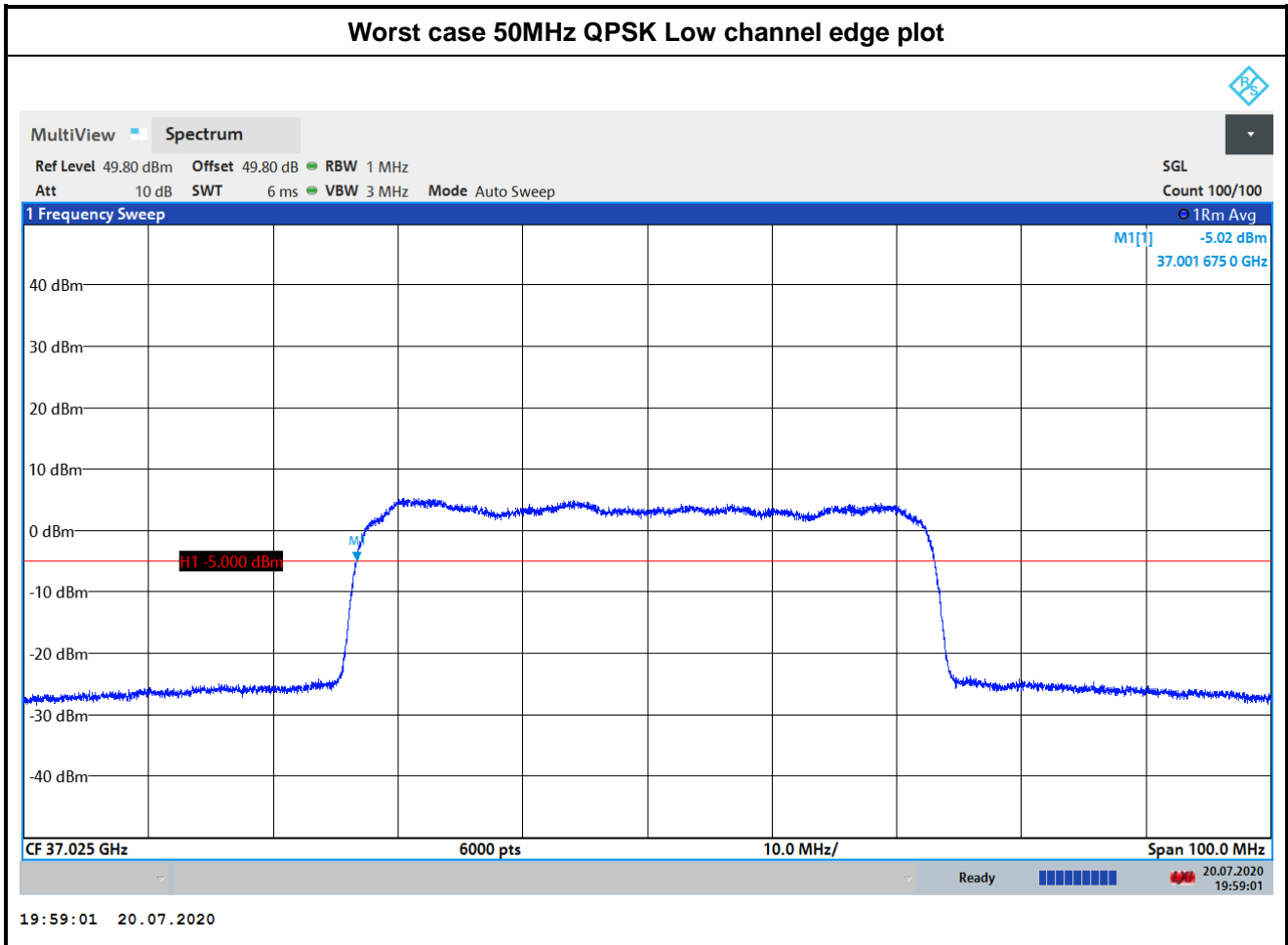
Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.3 V. ; Maximum Voltage =4.25 V.
2. The frequency fundamental emissions stay within the operation band.
3. The test result at the next page provides confidence that the maximum frequency deviation will not lead to out of band operation during normal and extreme condition.



Channel Bandwidth	Low channel edge frequency close to -5dBm/MHz limit (Hz)	Freq. gap to the lower edge 37,000,000,000Hz (Hz)	Maximum CW tone Deviation (Hz)	Within the band
50MHz	37,001,675,000	1,675,000	271,523	Compliance
100MHz	37,002,750,000	2,750,000	271,523	Compliance

Channel Bandwidth	High channel edge frequency close to -5dBm/MHz limit (Hz)	Freq. gap to the lower edge 40,000,000,000Hz (Hz)	Maximum CW tone Deviation (Hz)	Within the band
50MHz	39,998,075,000	1,925,000	271,523	Compliance
100MHz	39,994,483,000	5,517,000	271,523	Compliance





NR Band n260 SISO

Occupied Bandwidth

Mode	DFT-s-OFDM Module 0 NR Band n260 : 99%OBW(MHz)							
BW	50MHz				100MHz			
Mod.	BPSK	QPSK	16QAM	64QAM	BPSK	QPSK	16QAM	64QAM
Lowest CH	45.25	45.26	45.05	45.17	90.49	90.35	90.39	90.23
Middle CH	45.12	45.11	44.99	45.40	90.50	90.46	90.31	90.63
Highest CH	45.24	45.16	45.22	45.25	90.78	90.54	90.36	90.63

Mode	DFT-s-OFDM Module 1 NR Band n260 : 99%OBW(MHz)							
BW	50MHz				100MHz			
Mod.	BPSK	QPSK	16QAM	64QAM	BPSK	QPSK	16QAM	64QAM
Lowest CH	45.19	45.51	45.13	45.21	90.27	90.43	90.38	90.26
Middle CH	45.23	45.24	45.34	45.29	90.55	90.51	90.34	90.52
Highest CH	45.37	45.27	45.31	45.42	90.57	90.55	90.28	90.91

Mode	CP-OFDM Module 0 NR Band n260 : 99%OBW(MHz)						
BW	50MHz			100MHz			
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	64QAM
Lowest CH	45.21	45.19	45.28	93.08	92.68	93.01	
Middle CH	45.08	45.17	45.32	92.72	92.41	92.86	
Highest CH	45.12	45.31	45.25	92.88	92.72	92.81	

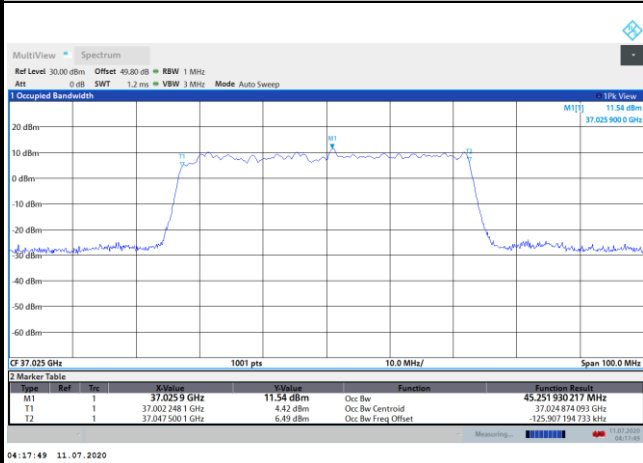
Mode	CP-OFDM Module 1 NR Band n260 : 99%OBW(MHz)						
BW	50MHz			100MHz			
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	64QAM
Lowest CH	45.28	45.18	45.25	92.62	92.59	92.75	
Middle CH	45.41	45.20	45.25	93.09	92.65	93.22	
Highest CH	45.17	45.16	45.28	93.05	92.77	93.12	



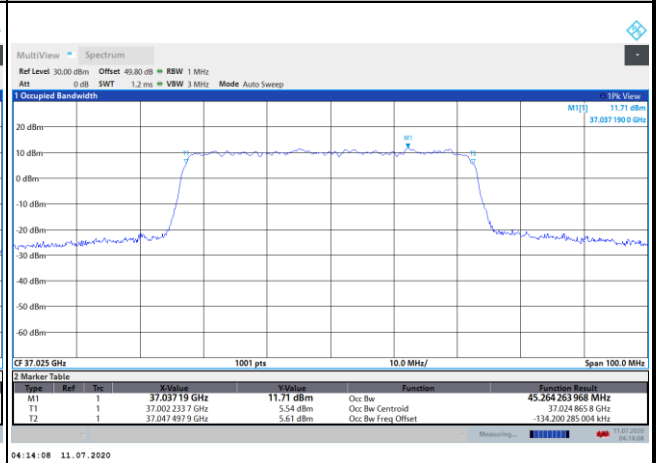
DFT-s-OFDM Module 0

NR Band n260

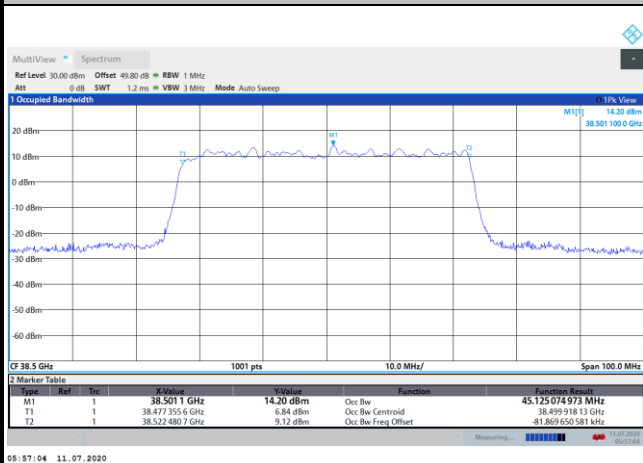
Lowest Channel / 50MHz / BPSK



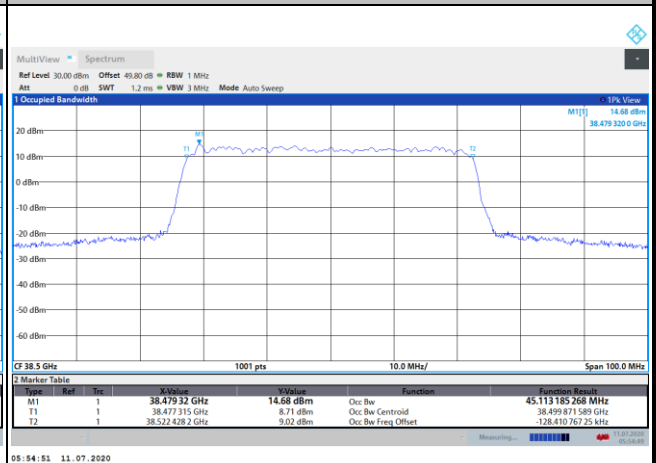
Lowest Channel / 50MHz / QPSK



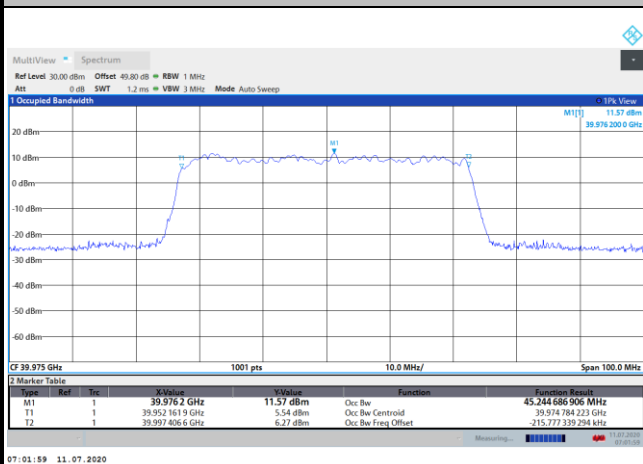
Middle Channel / 50MHz / BPSK



Middle Channel / 50MHz / QPSK



Highest Channel / 50MHz / BPSK



Highest Channel / 50MHz / QPSK

