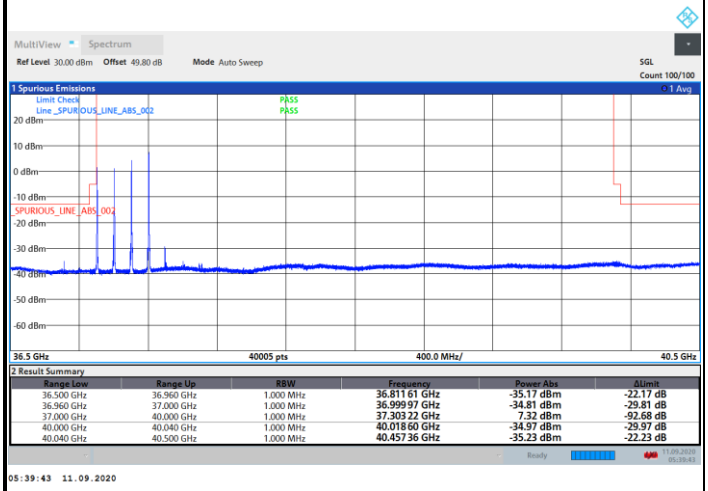
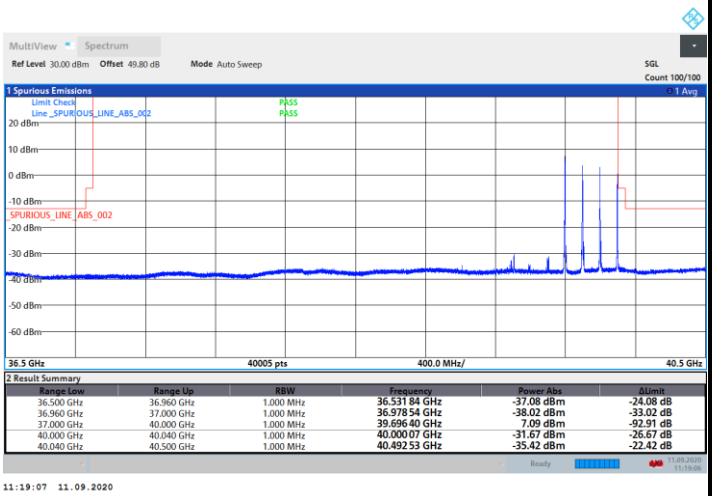
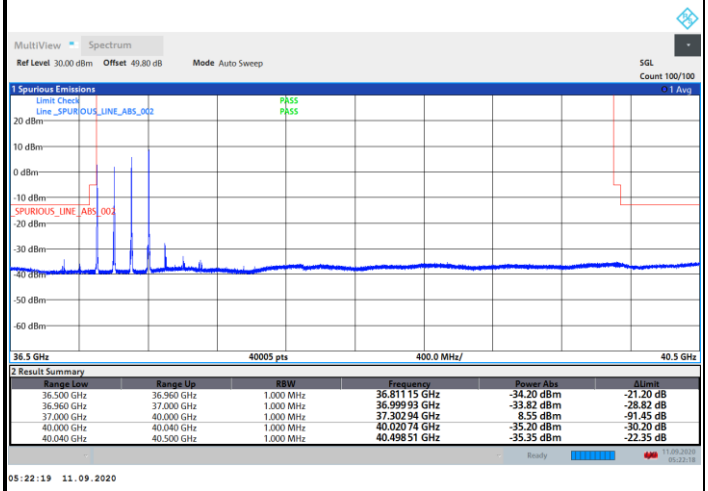
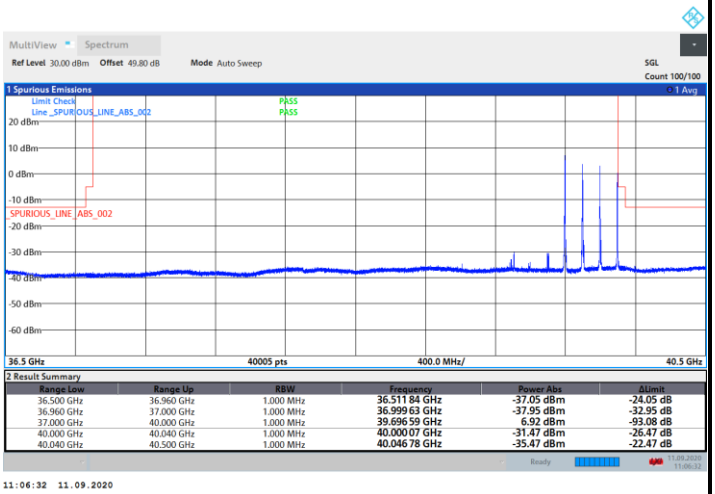
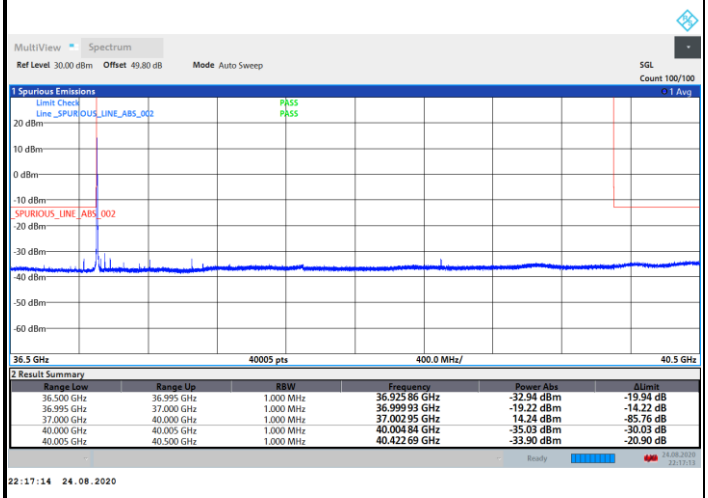
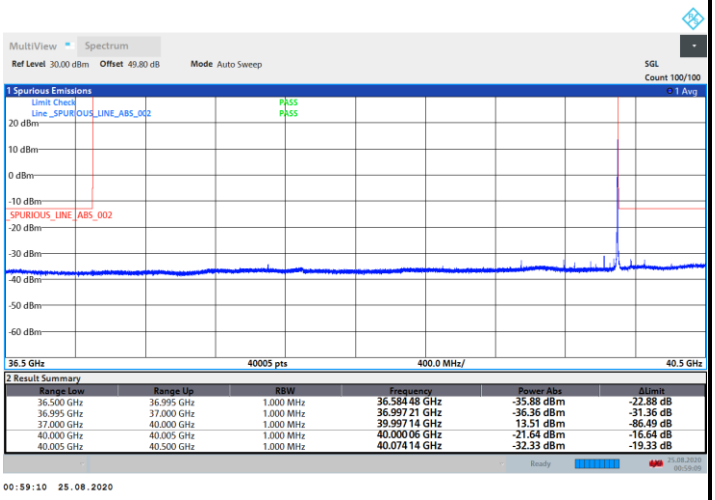
DFT-s-OFDM Module 2

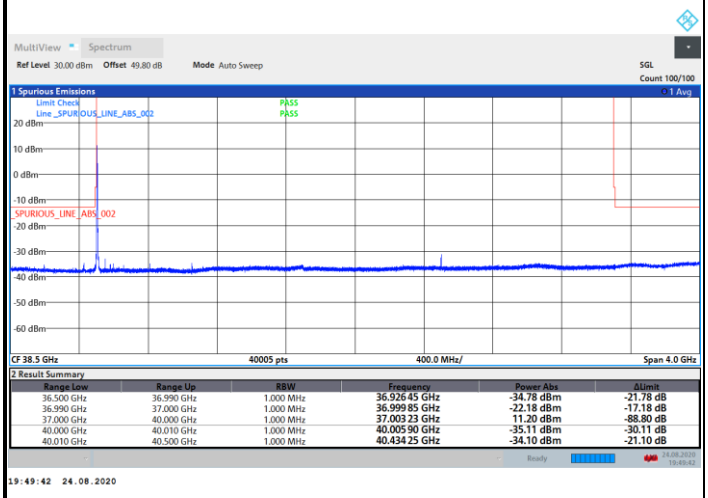
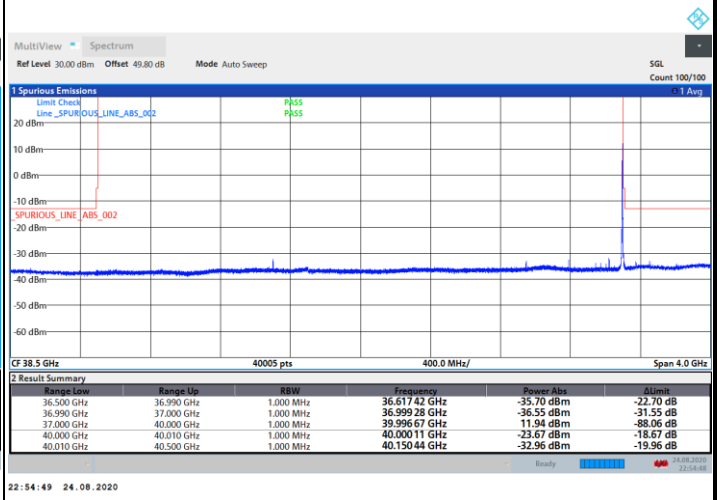
NR Band n260 / 400MHz / BPSK	
Lowest Band Edge / 1 RB	**Highest Band Edge / 1 RB**
	
05:39:43 11.09.2020	11:19:07 11.09.2020

NR Band n260 / 50MHz / QPSK	
Lowest Band Edge / 1 RB	**Highest Band Edge / 1 RB**
	
05:22:19 11.09.2020	11:06:32 11.09.2020

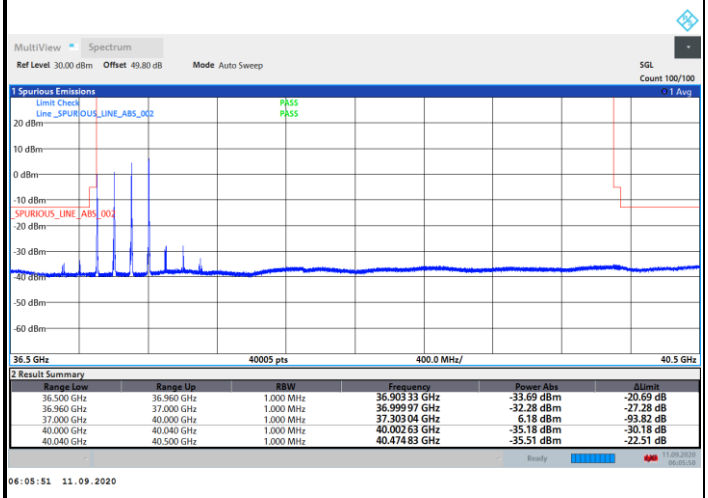
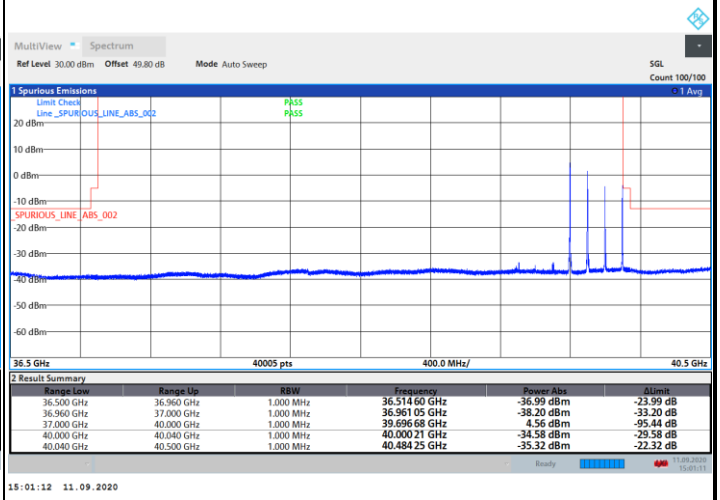
CP-OFDM Module 2

NR Band n260 / 50MHz / QPSK	
Lowest Band Edge / 1 RB	**Highest Band Edge / 1 RB**
	

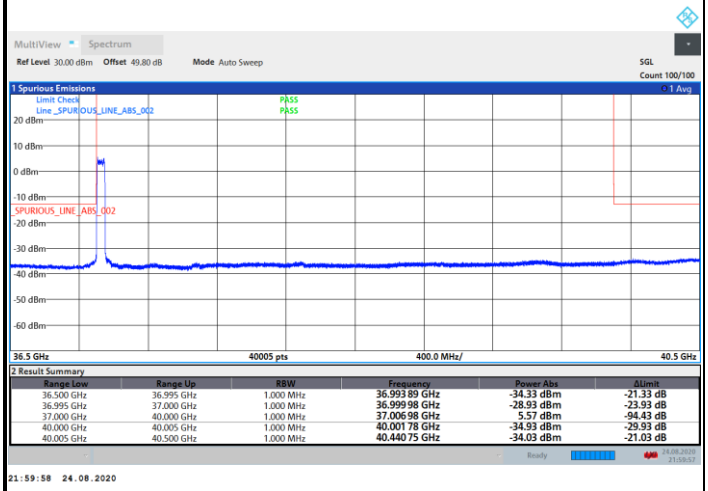
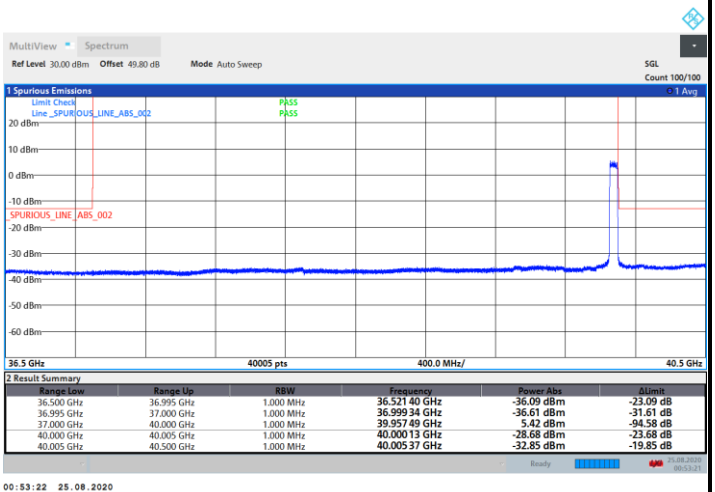
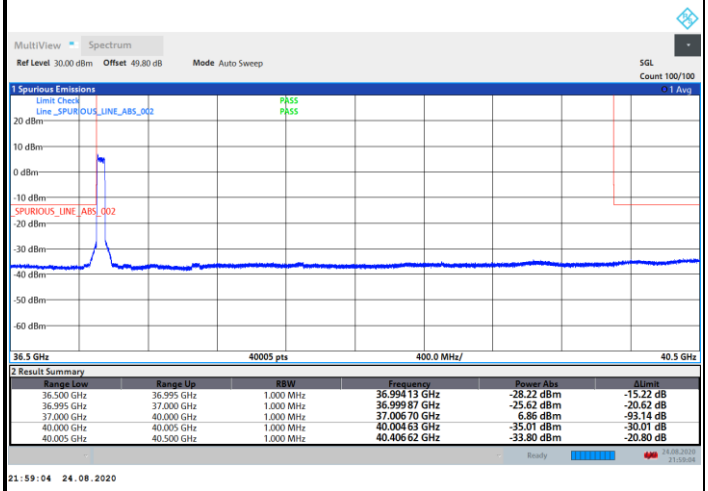
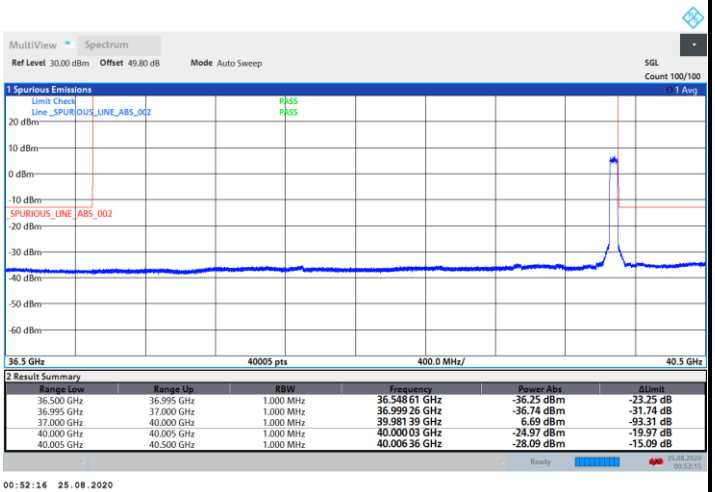
CP-OFDM Module 2

NR Band n260 / 100MHz / QPSK	
Lowest Band Edge / 1 RB	**Highest Band Edge / 1 RB**
	

CP-OFDM Module 2

NR Band n260 / 400MHz / QPSK	
Lowest Band Edge / 1 RB	**Highest Band Edge / 1 RB**
	

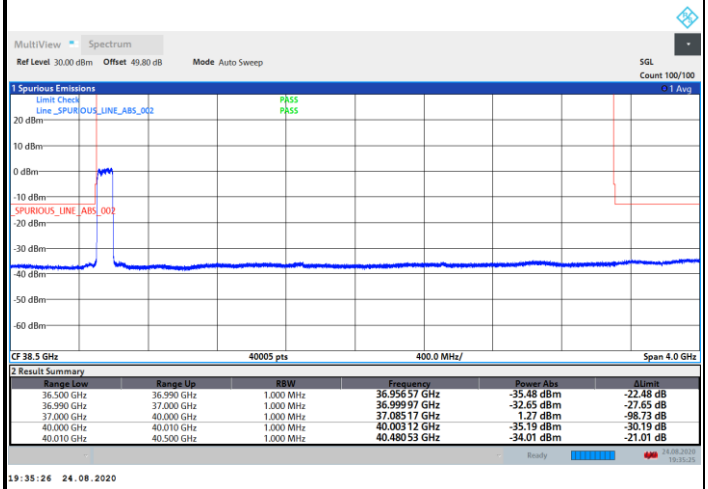
DFT-s-OFDM Module 2

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**
	

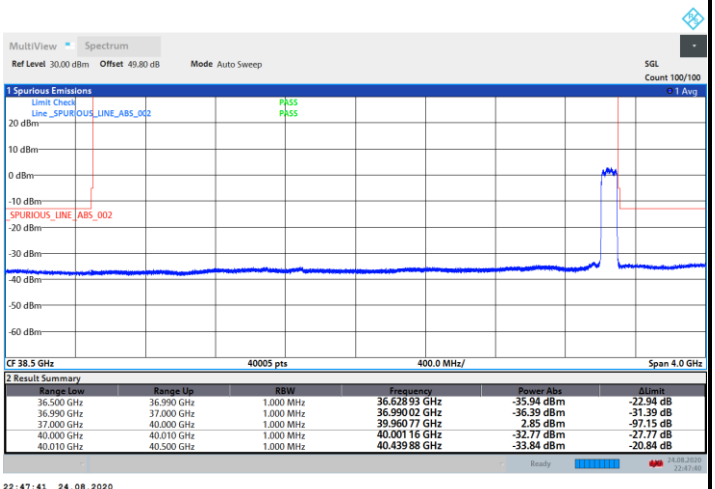
DFT-s-OFDM Module 2

NR Band n260 / 100MHz / BPSK

Lowest Band Edge / Full RB

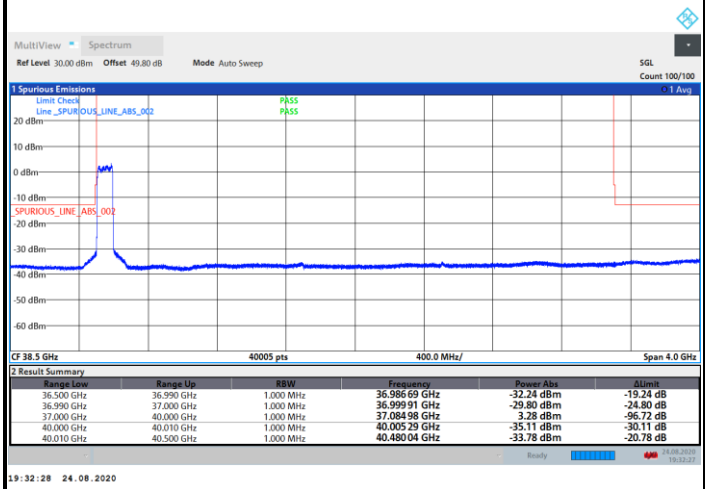


Highest Band Edge / Full RB

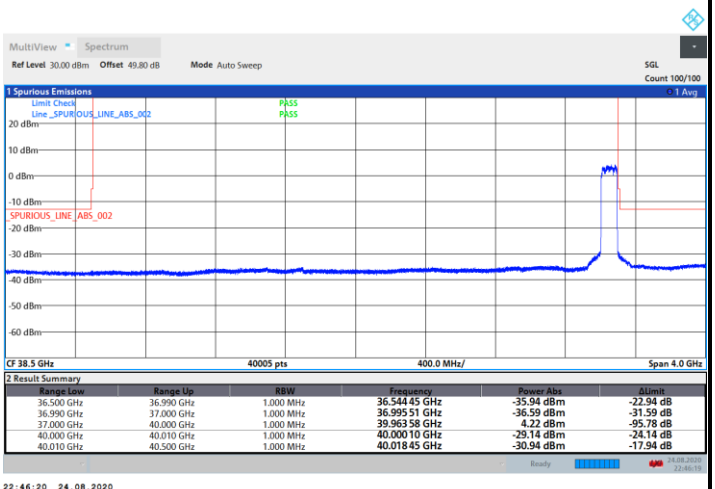


NR Band n260 / 100MHz / QPSK

Lowest Band Edge / Full RB



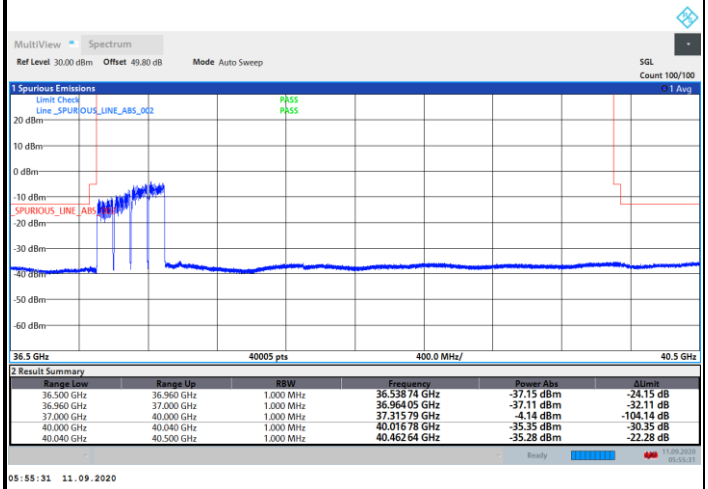
Highest Band Edge / Full RB



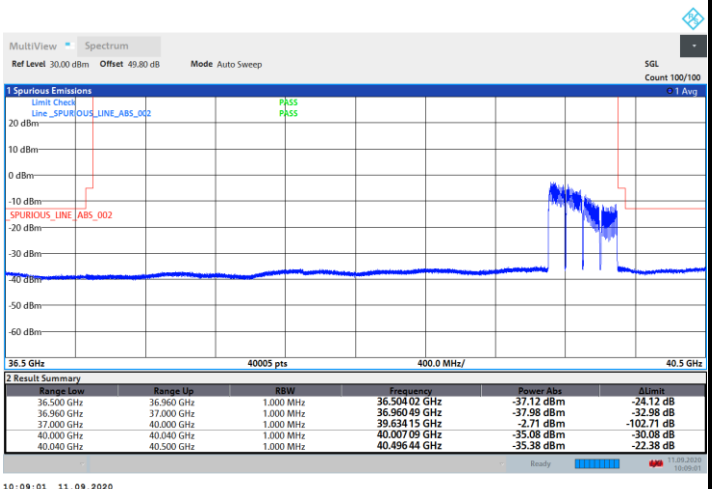
DFT-s-OFDM Module 2

NR Band n260 / 400MHz / BPSK

Lowest Band Edge / Full RB

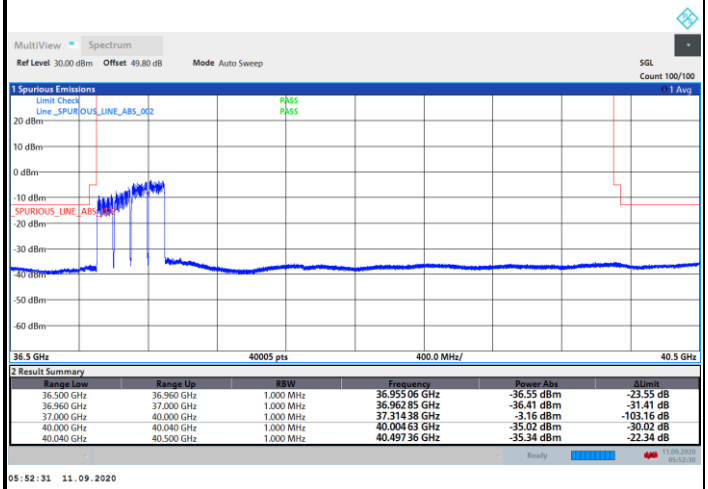


Highest Band Edge / Full RB

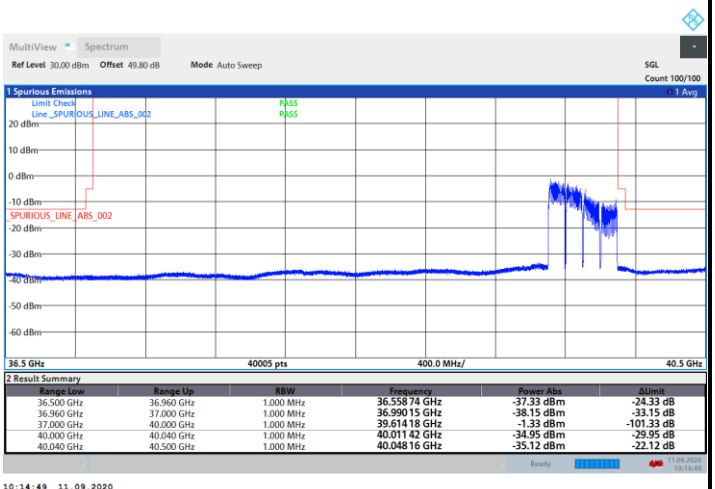


NR Band n260 / 50MHz / QPSK

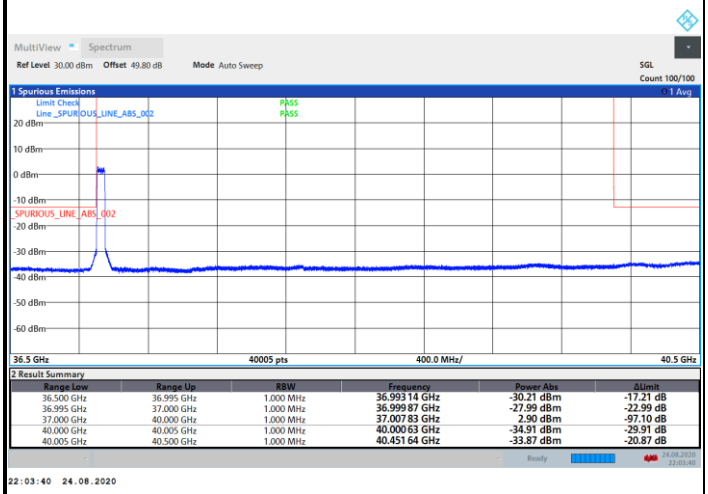
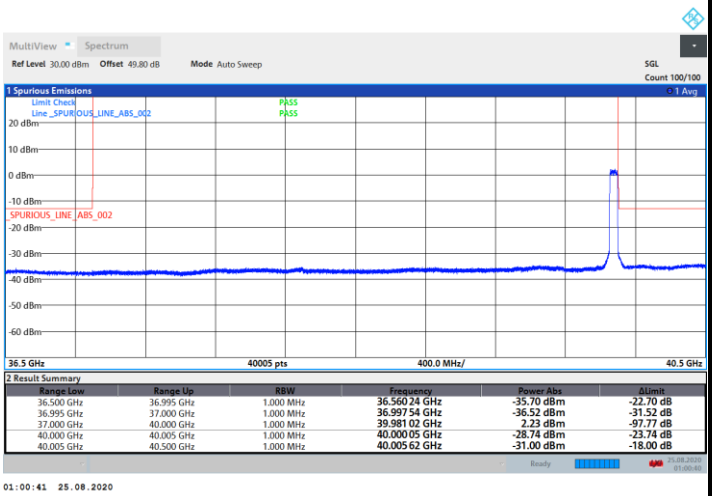
Lowest Band Edge / Full RB



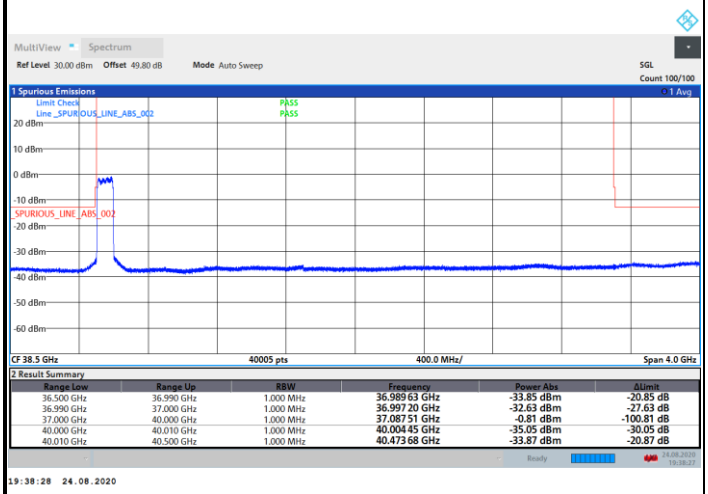
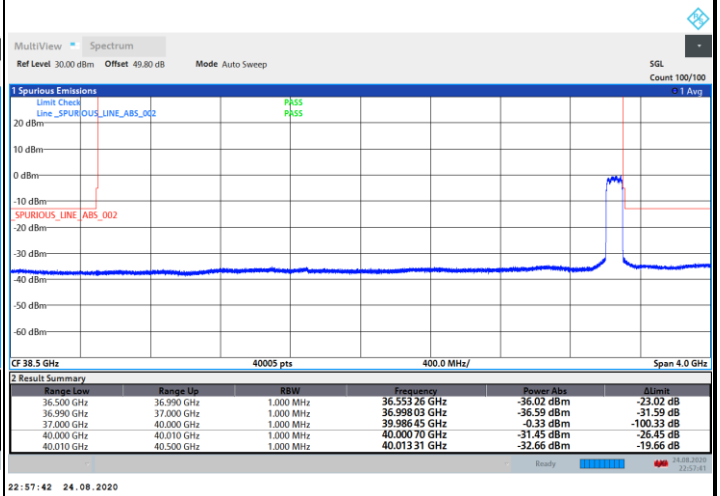
Highest Band Edge / Full RB



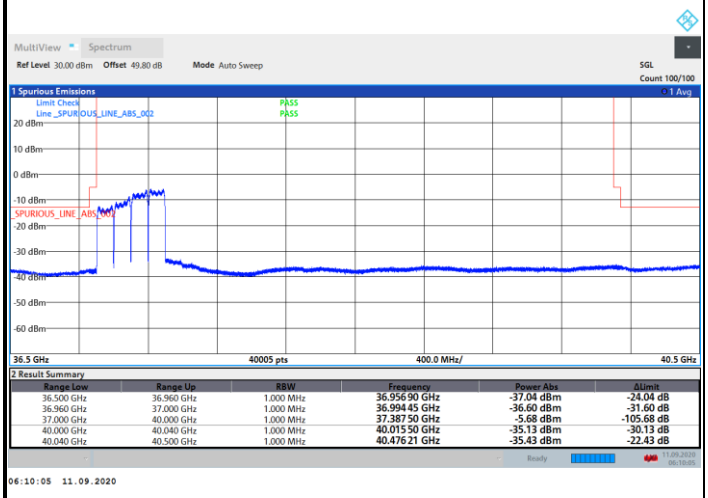
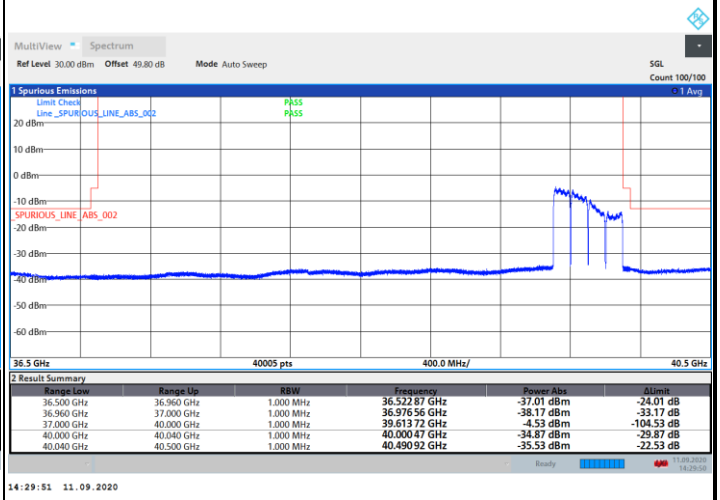
CP-OFDM Module 2

NR Band n260 / 50MHz / QPSK	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
	

CP-OFDM Module 2

NR Band n260 / 100MHz / QPSK	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
	

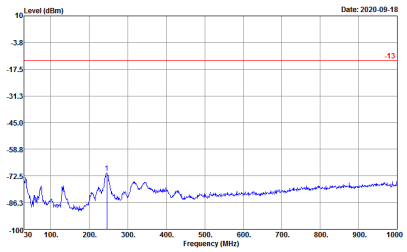
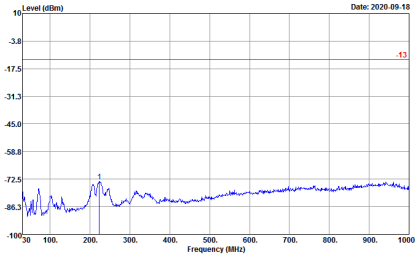
CP-OFDM Module 2

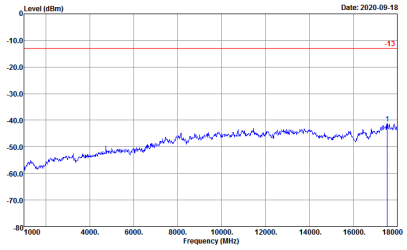
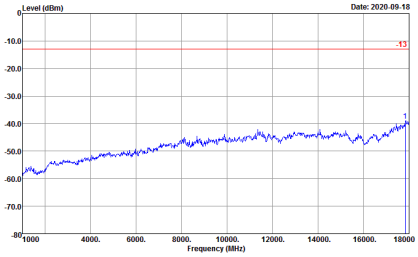
NR Band n260 / 400MHz / QPSK	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
	

Spurious Emission

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

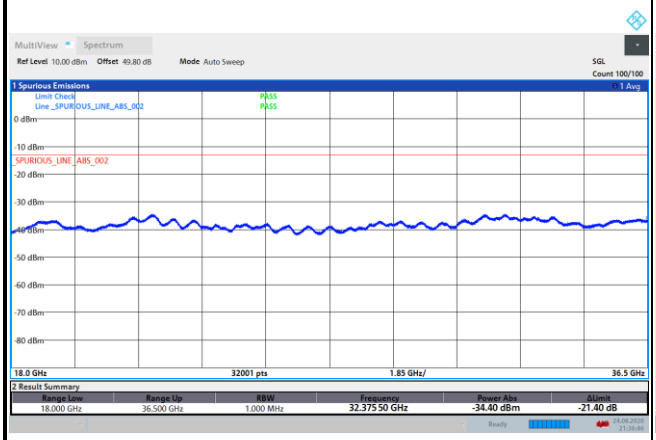
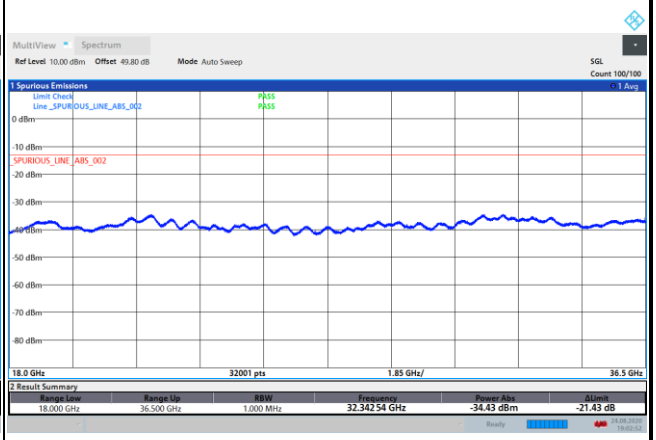
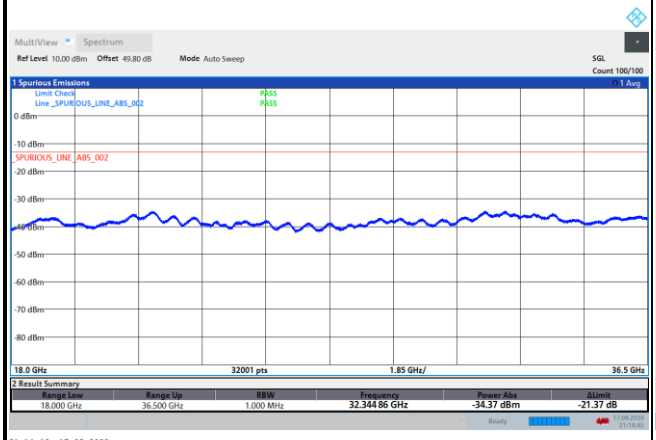
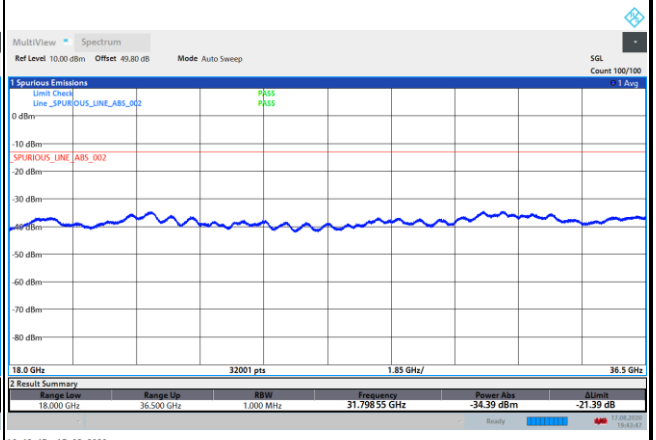
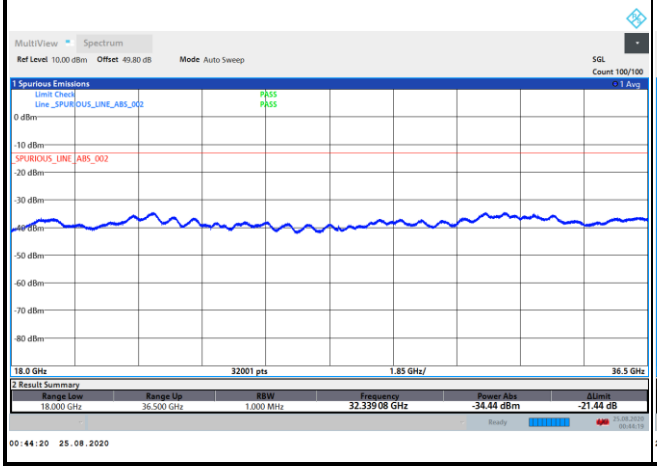
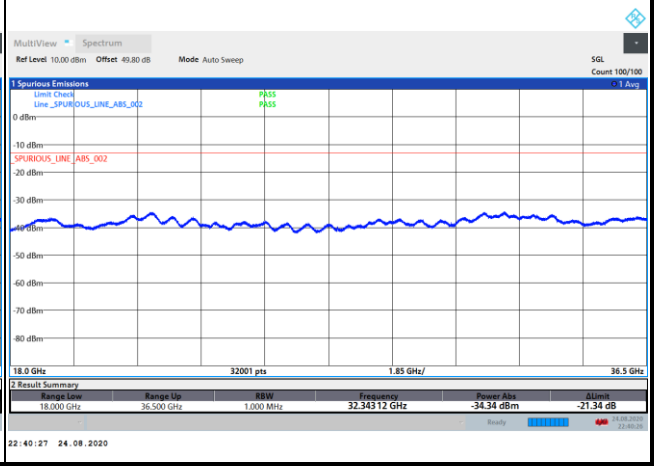
Only the noise floor is reported.

NR Band n260 (30MHz-1GHz)	
Horizontal	**Vertical**
 Site : 03CH10-HV Condition : -13 EIRP_WO HORIZONTAL Project : 070206 : n260 TB Freq Level Over Limit Limit Line MHz dBm dB dBm 1 245.34 -70.93 -57.93 -13.00	 Site : 03CH10-HV Condition : -13 EIRP_WO VERTICAL Project : 070206 : n260 TB Freq Level Over Limit Limit Line MHz dBm dB dBm 1 223.03 -73.65 -60.65 -13.00

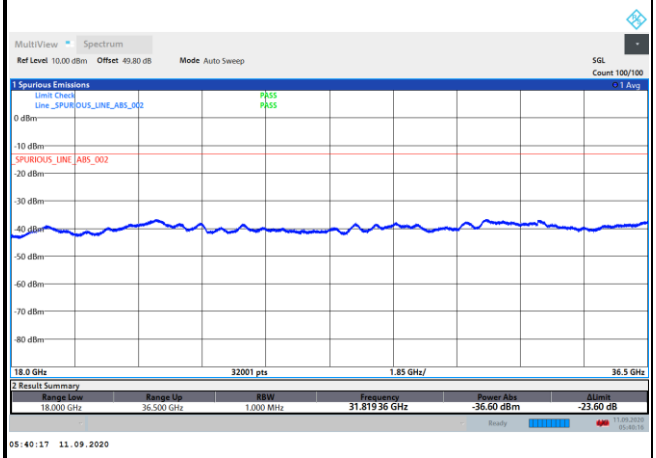
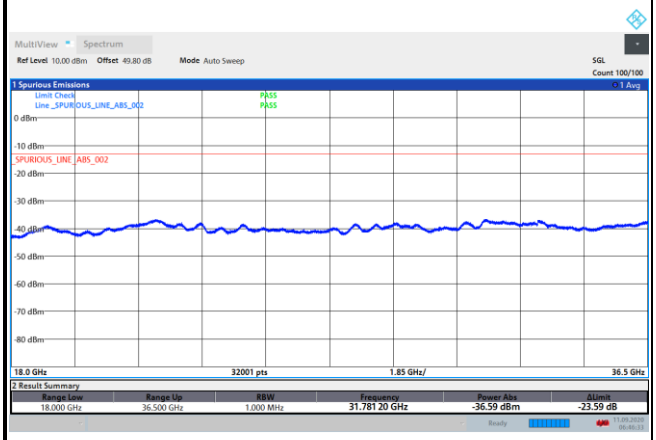
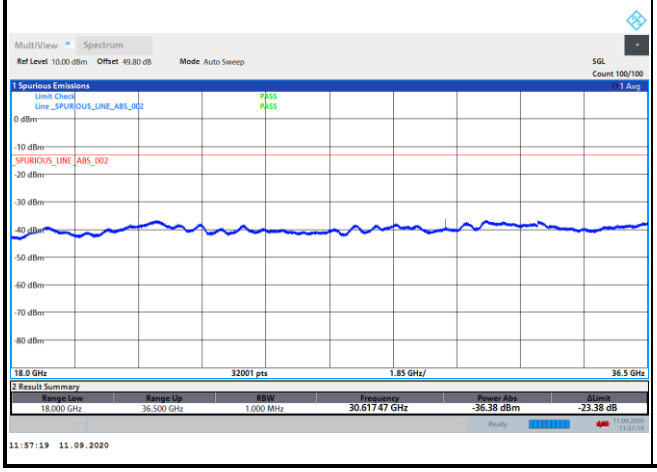
NR Band n260 (1GHz-18GHz)	
Horizontal	**Vertical**
 Site : 03CH10-HV Condition : -13 EIRP_WO HORIZONTAL Project : 070206 : n260 TB Freq Level Over Limit Limit Line MHz dBm dB dBm 1 17541.00 -41.15 -28.15 -13.00	 Site : 03CH10-HV Condition : -13 EIRP_WO VERTICAL Project : 070206 : n260 TB Freq Level Over Limit Limit Line MHz dBm dB dBm 1 17830.00 -38.99 -25.99 -13.00

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

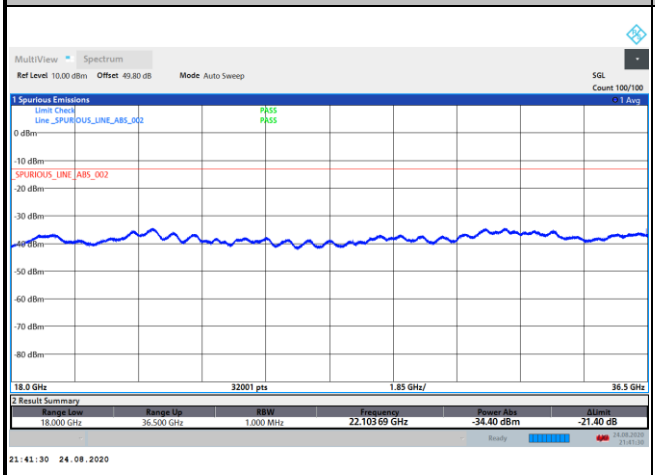
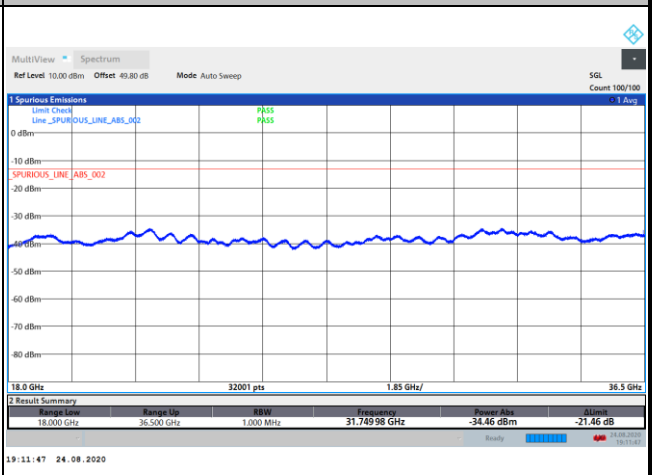
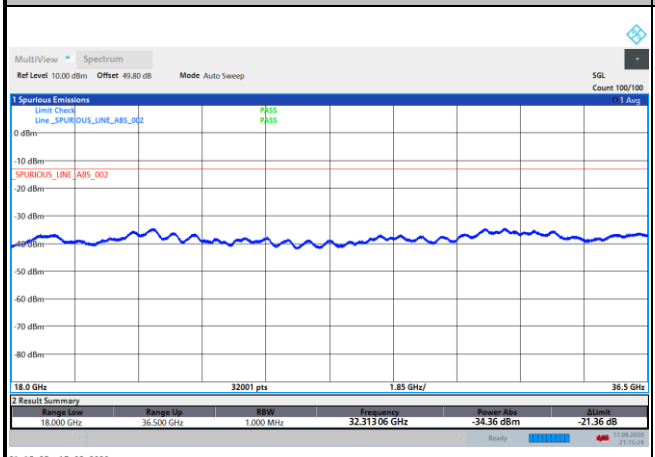
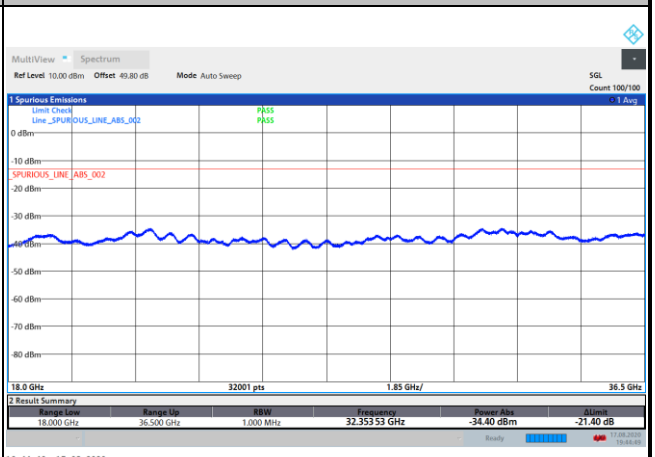
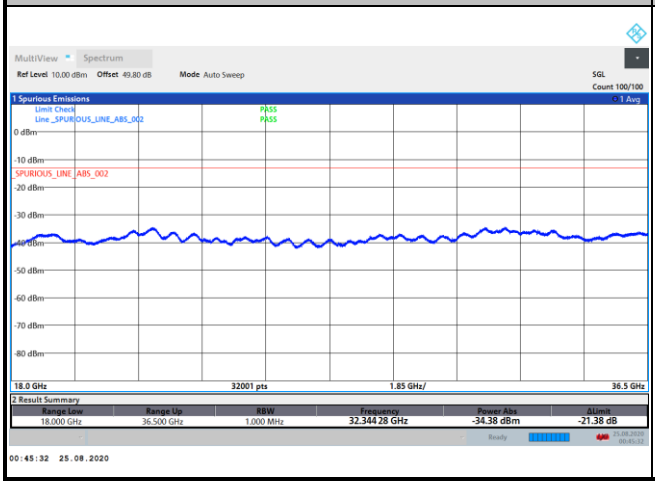
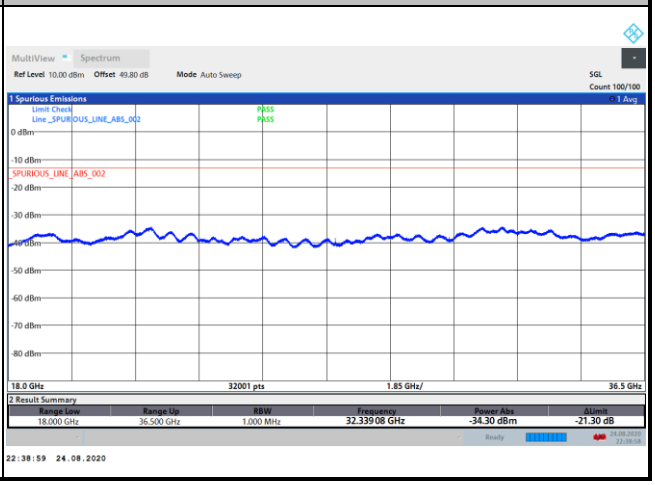
DFT-s-OFDM Module 2

NR Band n260 BPSK (18-40GHz)	
Lowest Channel / 50MHz	Lowest Channel / 100MHz
	
Middle Channel / 50MHz	Middle Channel / 100MHz
	
Highest Channel / 50MHz	Highest Channel / 100MHz
	

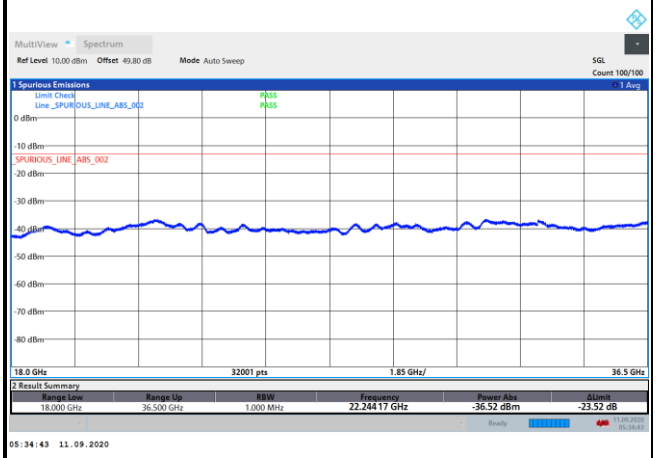
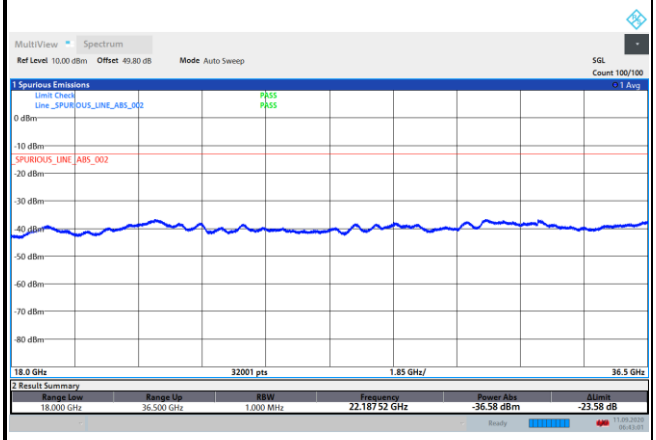
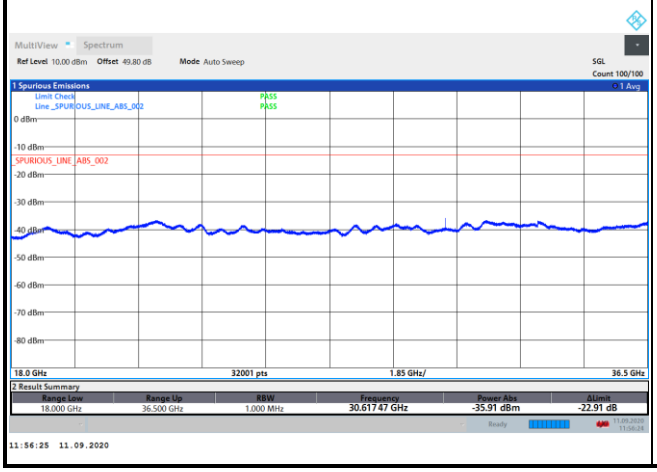
DFT-s-OFDM Module 2

NR Band n260 BPSK (18-40GHz)	
Lowest Channel / 400MHz	
	**intentionally blank**
Middle Channel / 400MHz	
	**intentionally blank**
Highest Channel / 400MHz	
	**intentionally blank**

DFT-s-OFDM Module 2

NR Band n260 QPSK (18-40GHz)	
Lowest Channel / 50MHz	**Lowest Channel / 100MHz**
	
Middle Channel / 50MHz	**Middle Channel / 100MHz**
	
Highest Channel / 50MHz	**Highest Channel / 100MHz**
	

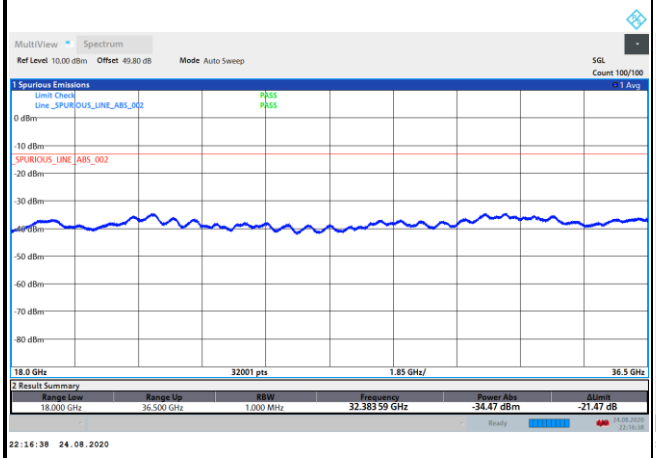
DFT-s-OFDM Module 2

NR Band n260 QPSK (18-40GHz)	
Lowest Channel / 400MHz	
	**intentionally blank**
Middle Channel / 400MHz	
	**intentionally blank**
Highest Channel / 400MHz	
	**intentionally blank**

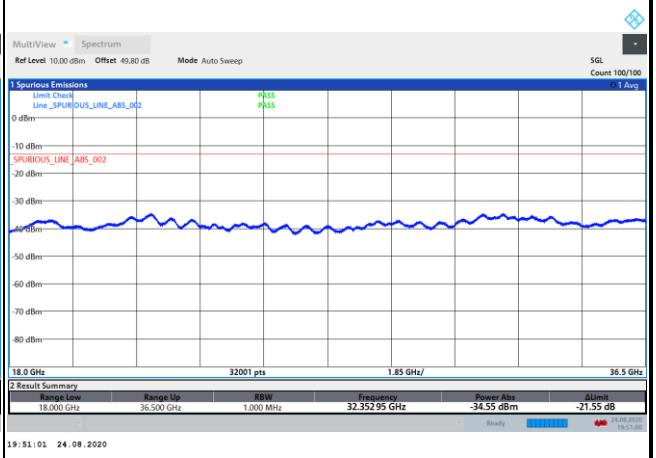
CP-OFDM Module 2

NR Band n260 QPSK (18-40GHz)

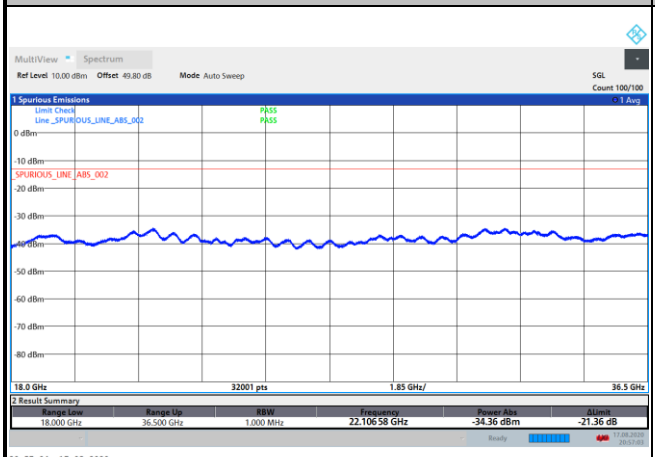
Lowest Channel / 50MHz



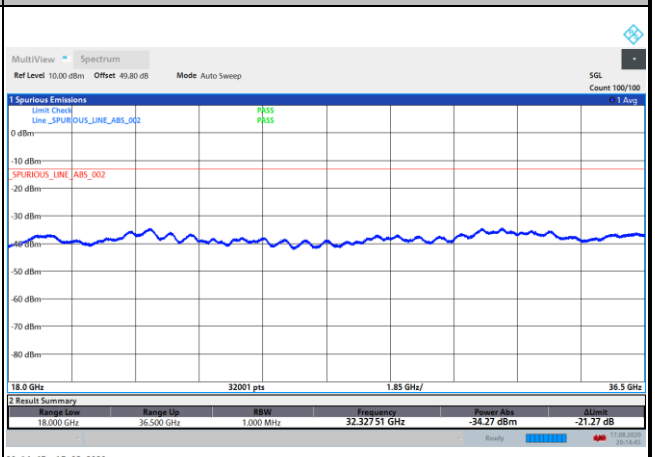
Lowest Channel / 100MHz



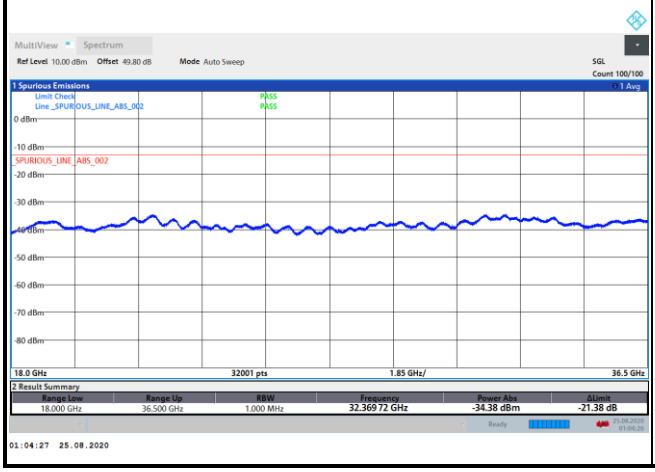
Middle Channel / 50MHz



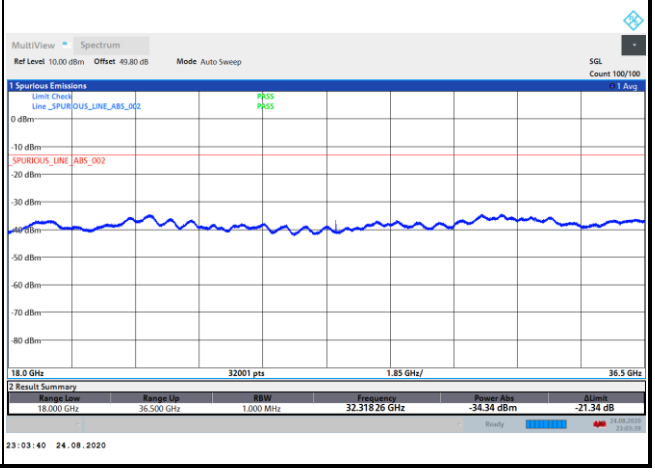
Middle Channel / 100MHz



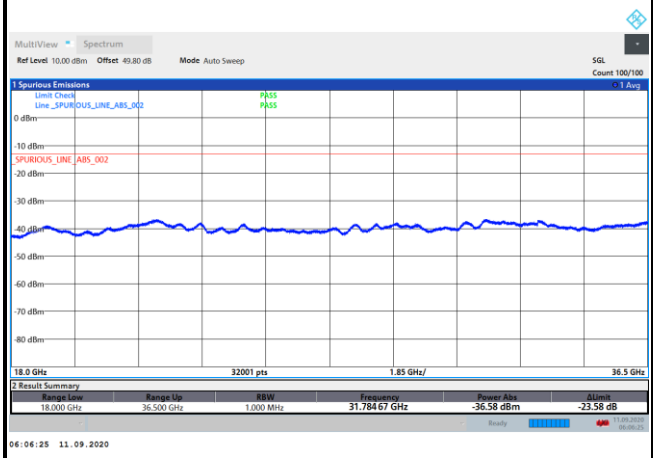
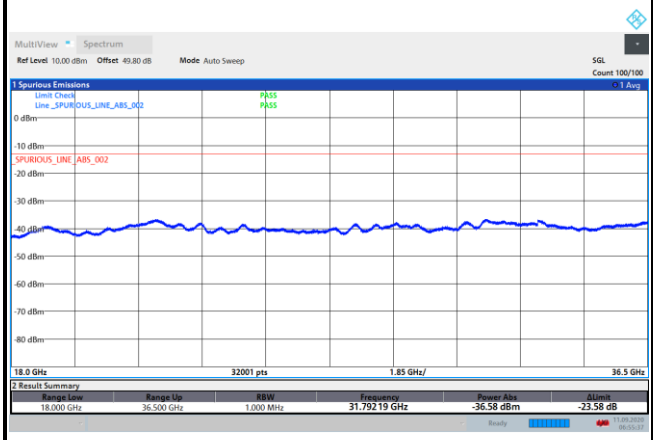
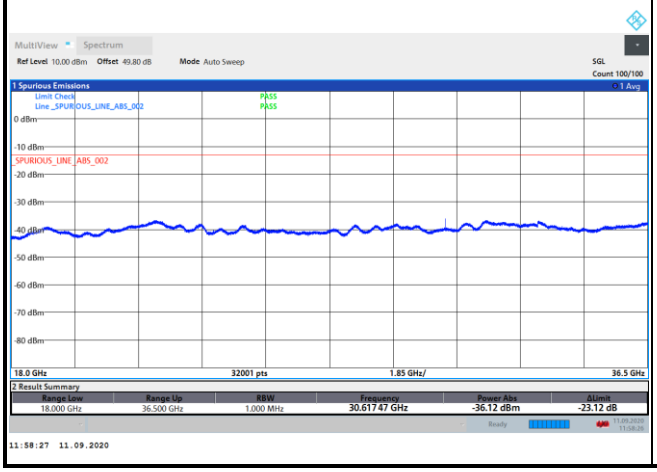
Highest Channel / 50MHz



Highest Channel / 100MHz



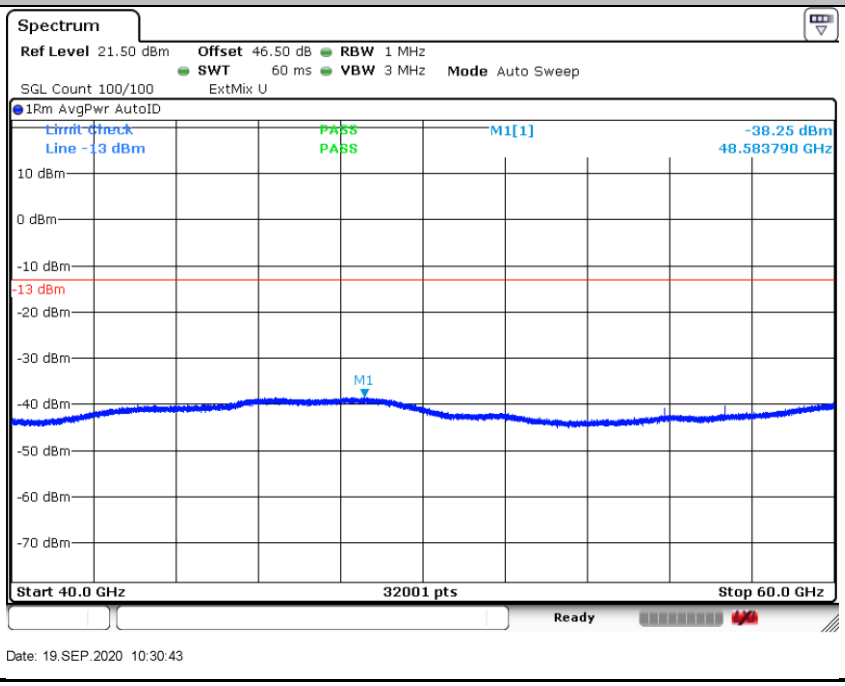
CP-OFDM Module 2

NR Band n260 QPSK (18-40GHz)	
Lowest Channel / 400MHz	
	**intentionally blank**
Middle Channel / 400MHz	
	**intentionally blank**
Highest Channel / 400MHz	
	**intentionally blank**

There is no significant spurious emission signal found for frequency started from 40GHz up to 200GHz.

Only the noise floor is reported.

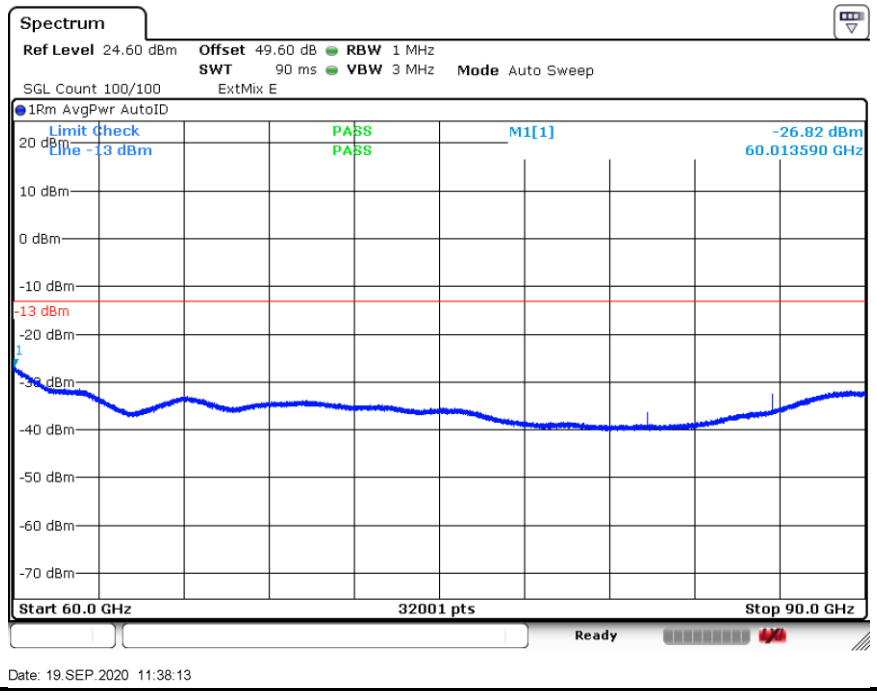
NR Band n260
(40GHz-60GHz)



Offset = Antenna Factor (dB/m) + Cable Loss (dB) + 107 + 20log (D) – 104.8

= 42.3 + 2 + 107 + 20log(1) – 104.8 = 46.5 (dB)

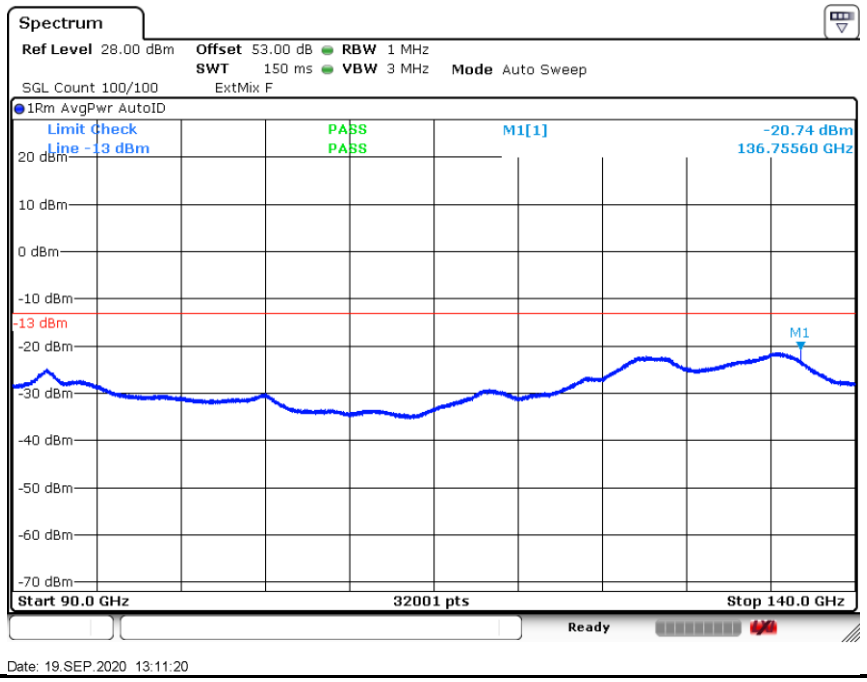
NR Band n260
(60GHz-90GHz)



Offset = Antenna Factor (dB/m) + Cable Loss (dB) + 107 + 20log (D) – 104.8

= 45.4 + 2 + 107 + 20log(1) – 104.8 = 49.6 (dB)

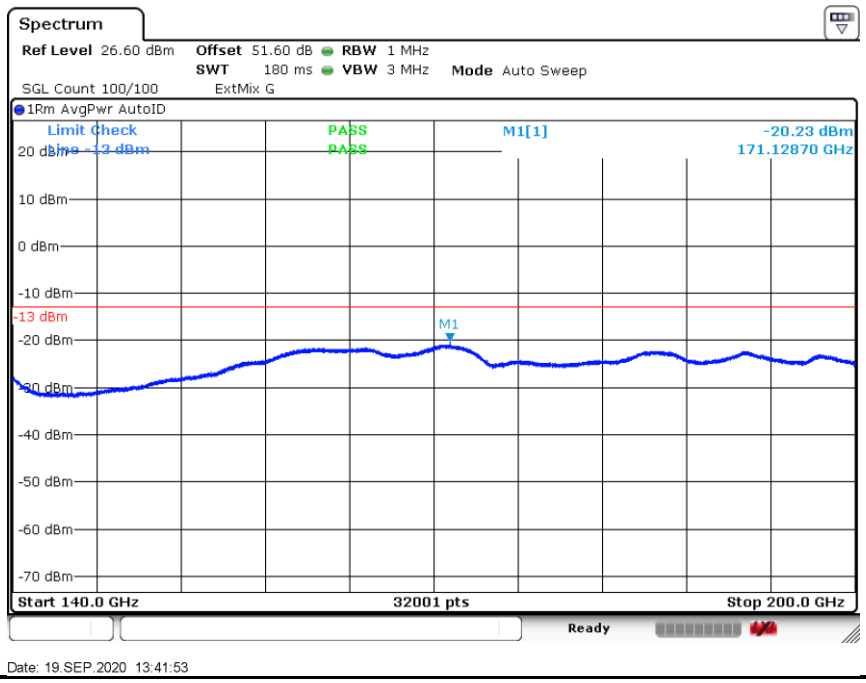
NR Band n260
(90GHz-140GHz)



Offset = Antenna Factor (dB/m) + Cable Loss (dB) + 107 + 20log (D) – 104.8

= 48.8 + 2 + 107 + 20log(1) – 104.8 = 53 (dB)

NR Band n260
(140GHz-200GHz)



Offset = Antenna Factor (dB/m) + Cable Loss (dB) + 107 + 20log (D) – 104.8

= 53.4 + 2 + 107 + 20log(0.5) – 104.8 = 51.6 (dB)

NR Band n260

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	38.5002807	-282.700	7.343	Pass
40	Normal Voltage	38.5001628	-164.800	4.281	
30	Normal Voltage	38.5000619	-63.900	1.660	
20(Ref.)	Normal Voltage	38.499998	0.000	0.000	
10	Normal Voltage	38.499978	20.000	0.519	
0	Normal Voltage	38.49995	48.000	1.247	
-10	Normal Voltage	38.4999011	96.900	2.517	
-20	Normal Voltage	38.4998322	165.800	4.306	
-30	Normal Voltage	38.4997742	223.800	5.813	
20	Maximum Voltage	38.500035	-37.000	0.961	
20	Normal Voltage	38.500014	-16.000	0.416	
20	Battery End Point	38.499976	22.000	0.571	

Note:

1. Normal Voltage =7.6 V.；Battery End Point (BEP) =6.4 V.；Maximum Voltage =8 V.
2. The frequency fundamental emissions stay within the operation band.

<NB Mode>

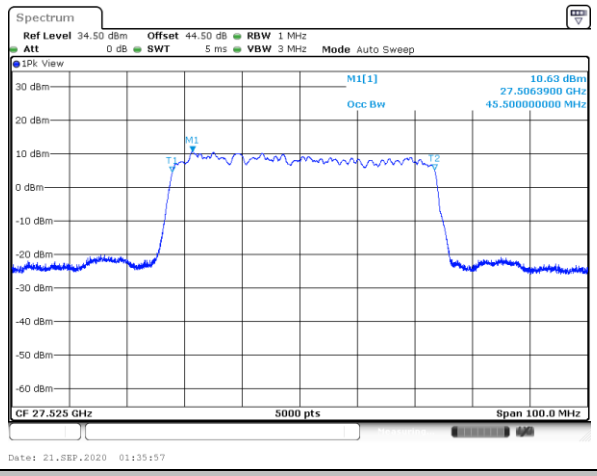
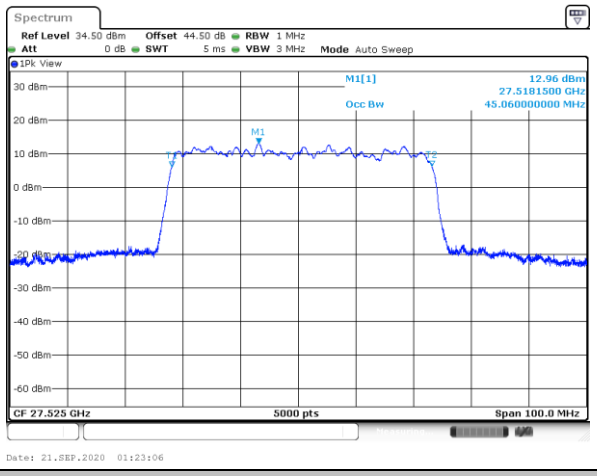
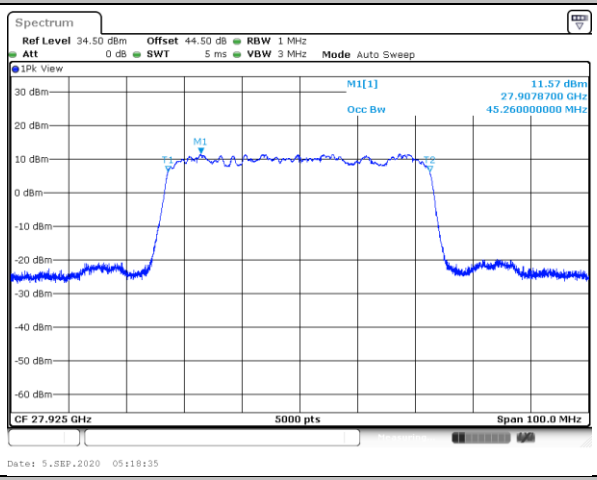
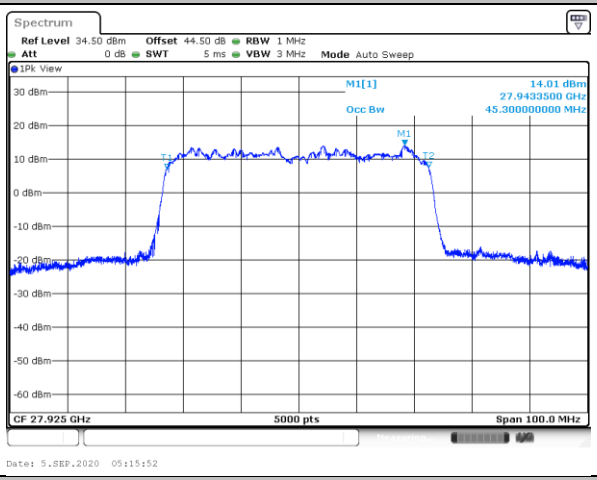
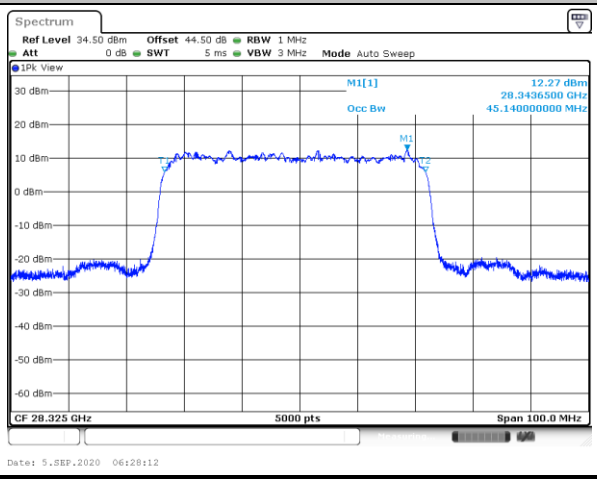
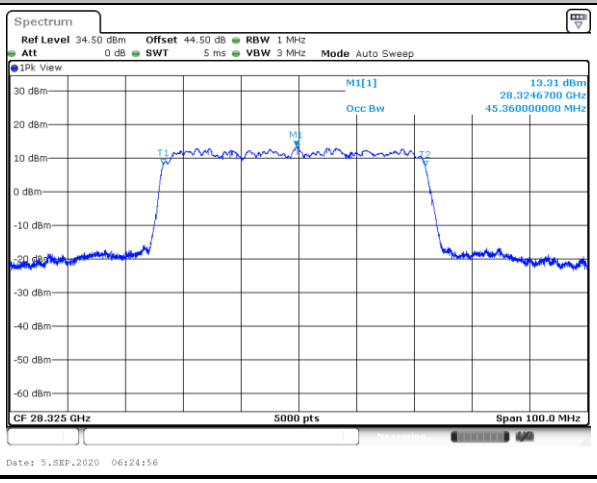
NR Band n261 Module 0 AG0

Occupied Bandwidth

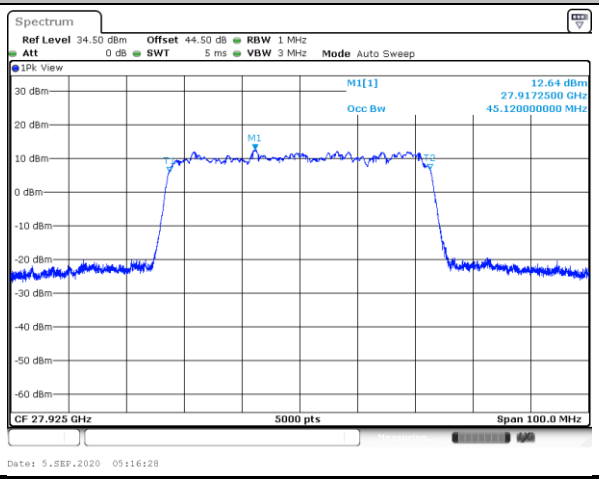
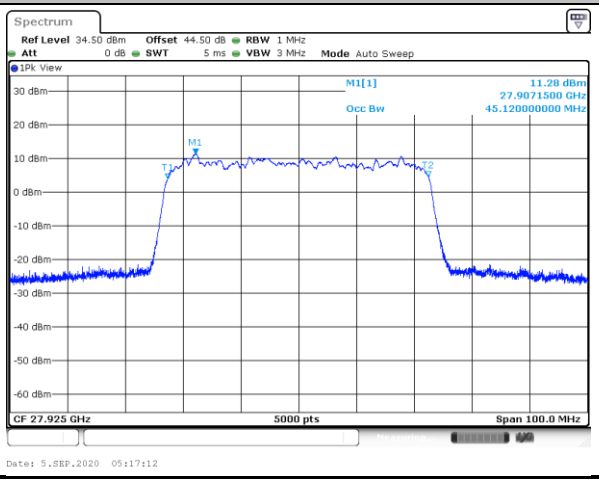
Mode	DFT-s-OFDM Module 0 NR Band n261 : 99%OBW(MHz)											
BW	50MHz				100MHz				400MHz			
Mod.	BPSK	QPSK	16QAM	64QAM	BPSK	QPSK	16QAM	64QAM	BPSK	QPSK	16QAM	64QAM
Lowest CH	45.50	45.06	-	-	90.28	90.08	-	-	387.04	386.56	-	-
Middle CH	45.26	45.30	45.12	45.12	90.72	90.24	90.48	90.36	386.56	386.56	386.72	387.36
Highest CH	45.14	45.36	-	-	90.12	90.52	-	-	386.56	386.56	-	-

Mode	CP-OFDM Module 0 NR Band n261 : 99%OBW(MHz)								
BW	50MHz			100MHz			400MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	45.36	-	-	92.72	-	-	387.20	-	-
Middle CH	45.22	45.04	45.16	92.72	92.84	92.56	388.96	389.12	390.08
Highest CH	45.20	-	-	92.68	-	-	388.48	-	-

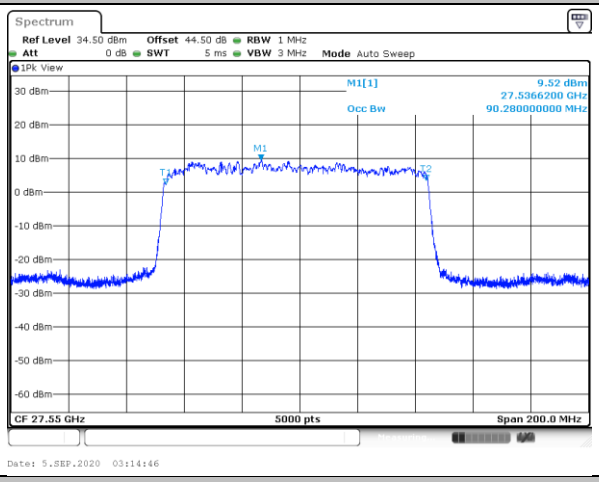
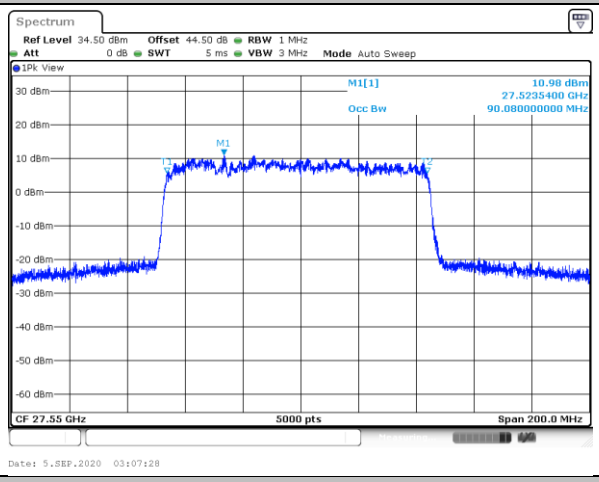
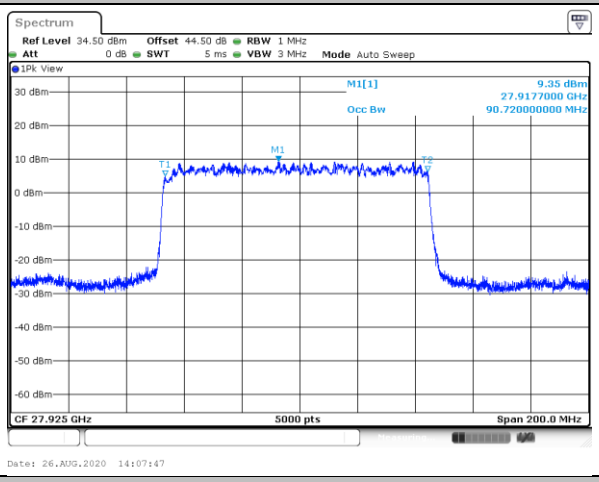
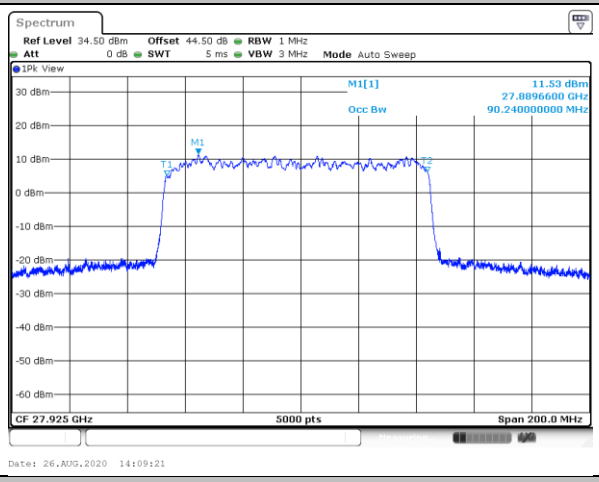
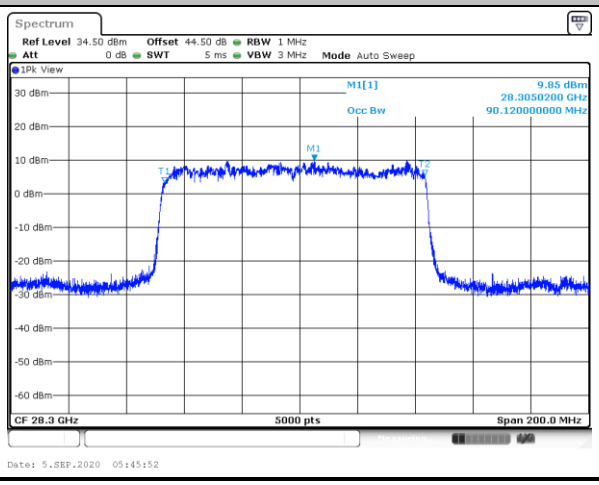
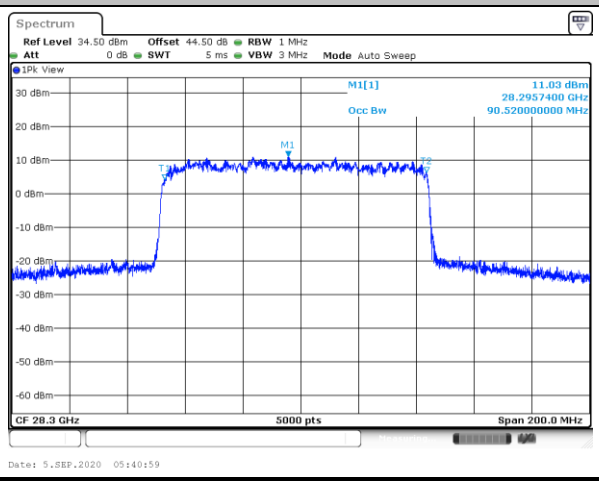
DFT-s-OFDM Module 0

NR Band n261	
Lowest Channel / 50MHz / BPSK	**Lowest Channel / 50MHz / QPSK**
	
Middle Channel / 50MHz / BPSK	**Middle Channel / 50MHz / QPSK**
	
Highest Channel / 50MHz / BPSK	**Highest Channel / 50MHz / QPSK**
	

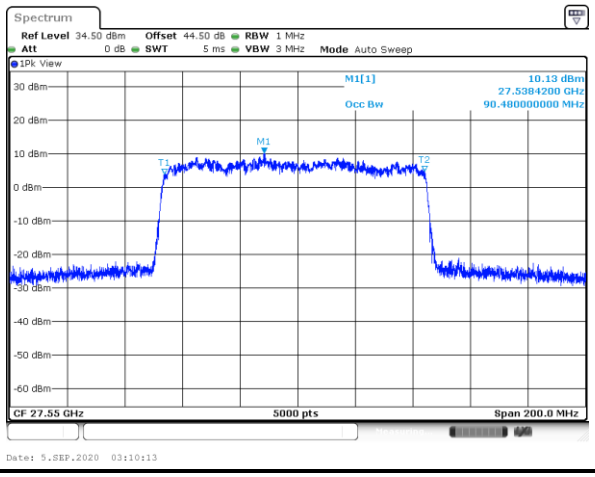
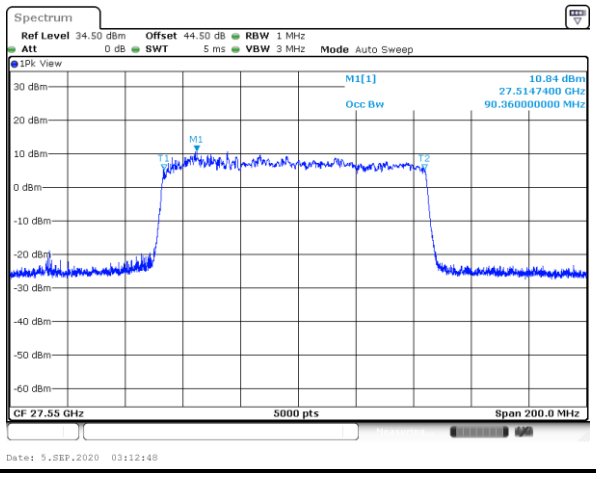
DFT-s-OFDM Module 0

NR Band n261	
Middle Channel / 50MHz / 16QAM	**Middle Channel / 50MHz / 64QAM**
	

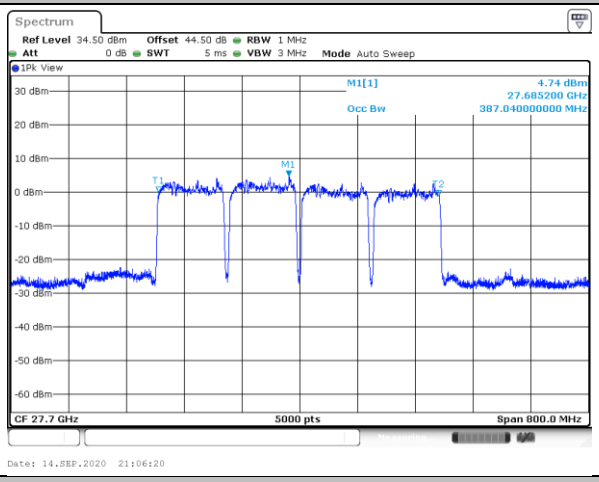
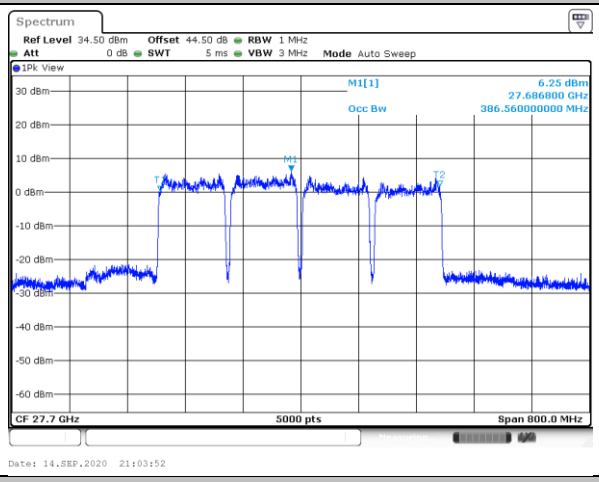
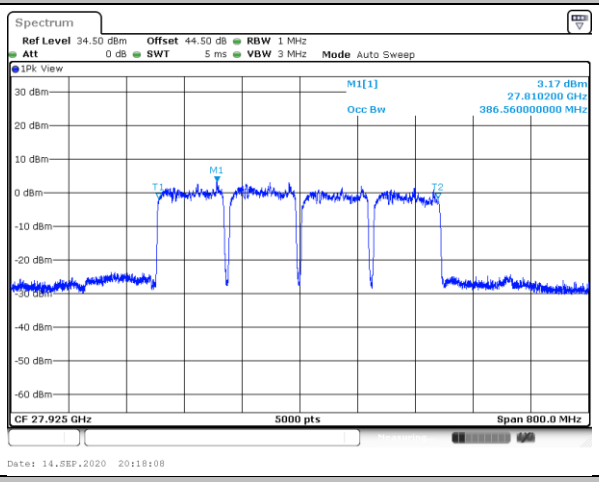
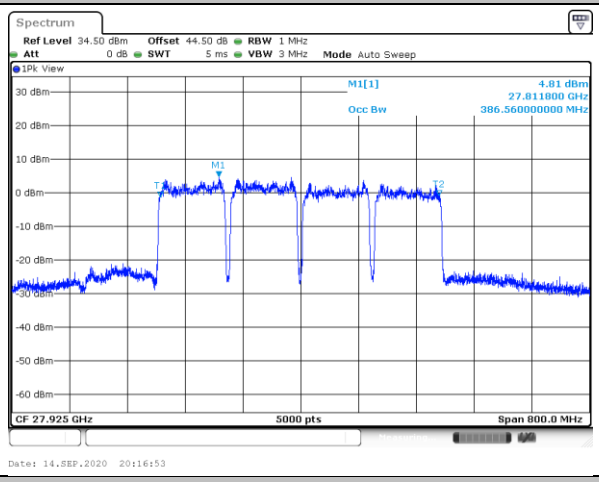
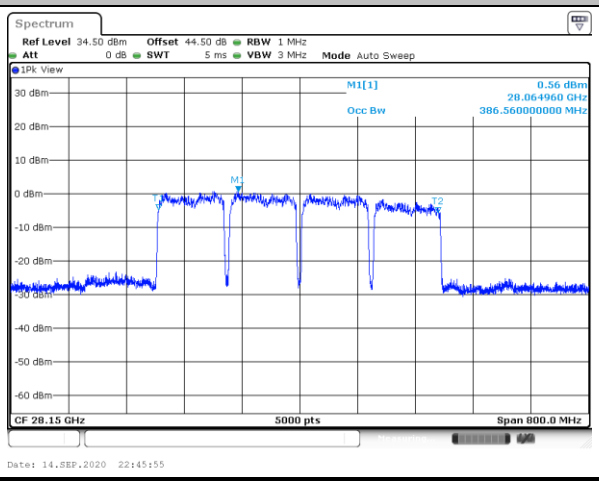
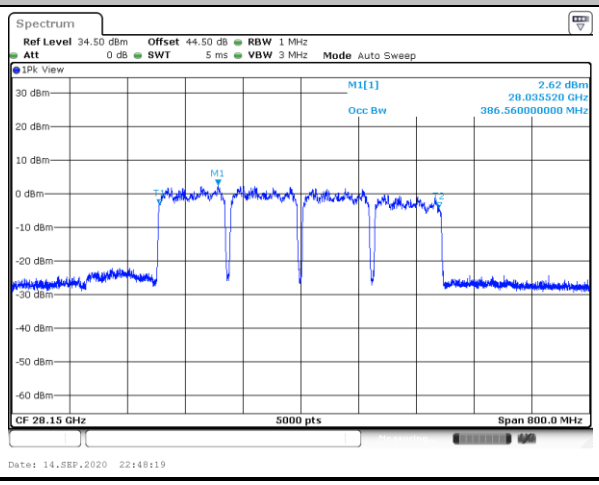
DFT-s-OFDM Module 0

NR Band n261	
Lowest Channel / 100MHz / BPSK	**Lowest Channel / 100MHz / QPSK**
	
Middle Channel / 100MHz / BPSK	**Middle Channel / 100MHz / QPSK**
	
Highest Channel / 100MHz / BPSK	**Highest Channel / 100MHz / QPSK**
	

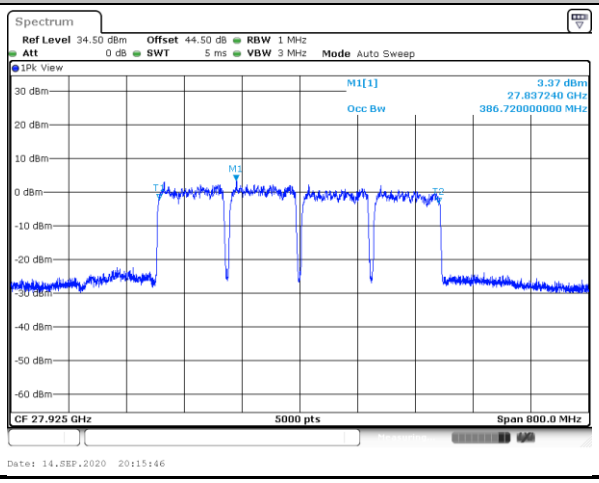
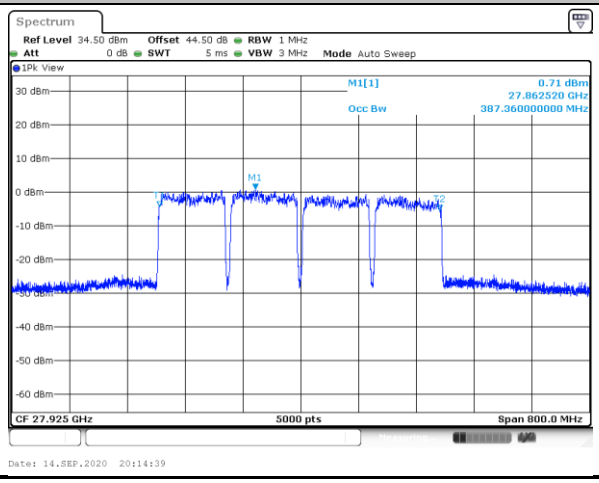
DFT-s-OFDM Module 0

NR Band n261	
Middle Channel / 100MHz / 16QAM	**Middle Channel / 100MHz / 64QAM**
	

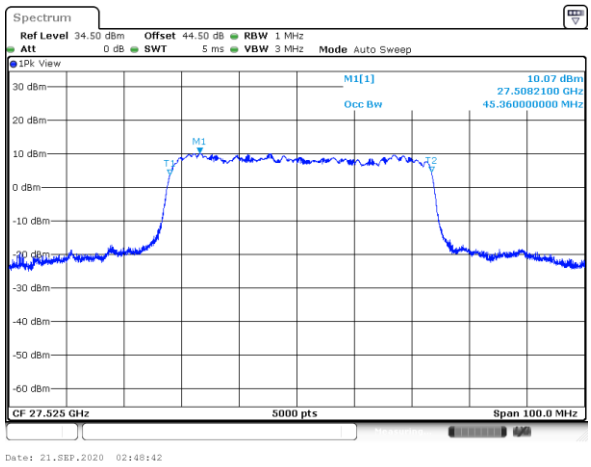
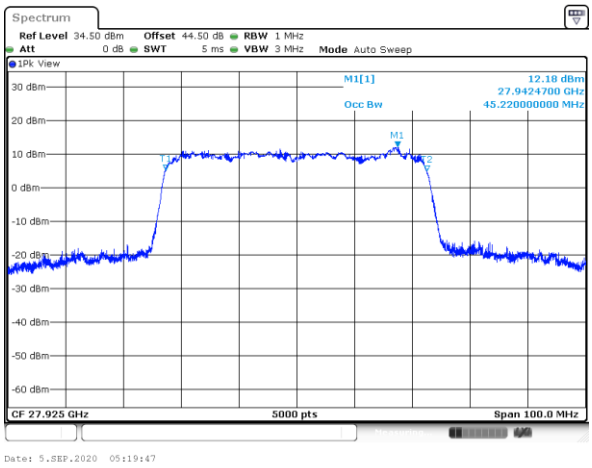
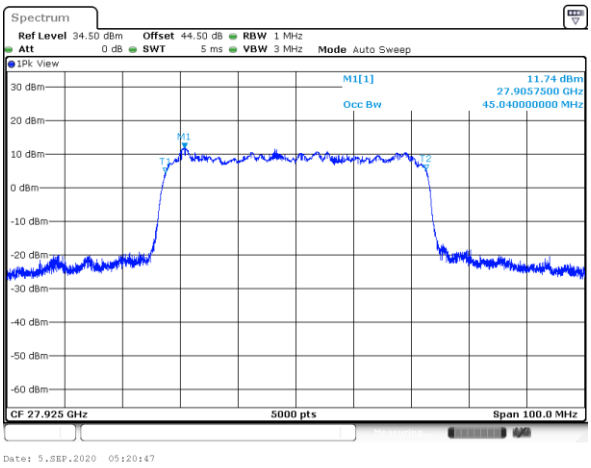
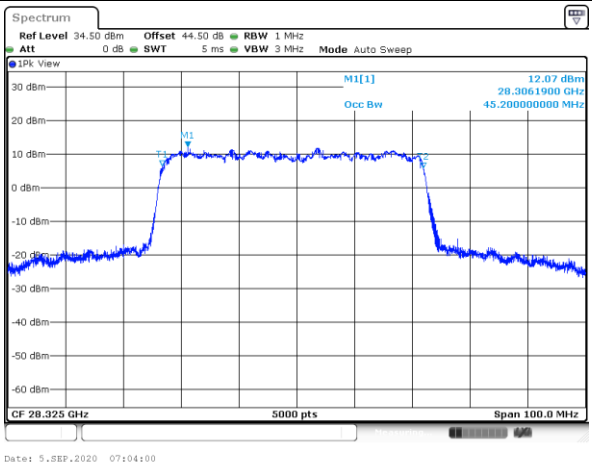
DFT-s-OFDM Module 0

NR Band n261	
Lowest Channel / 400MHz / BPSK	**Lowest Channel / 400MHz / QPSK**
	
Middle Channel / 400MHz / BPSK	**Middle Channel / 400MHz / QPSK**
	
Highest Channel / 400MHz / BPSK	**Highest Channel / 400MHz / QPSK**
	

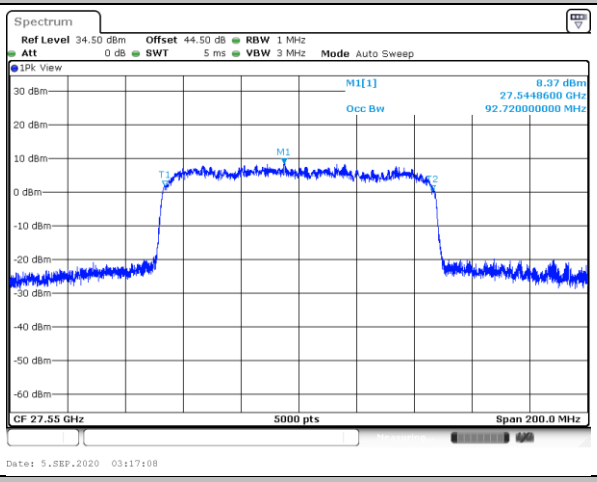
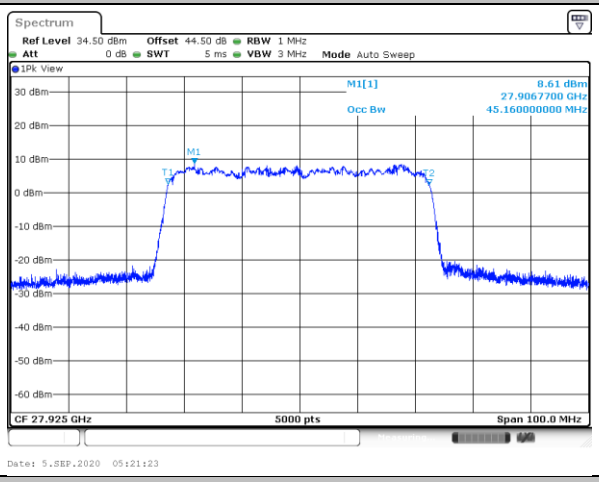
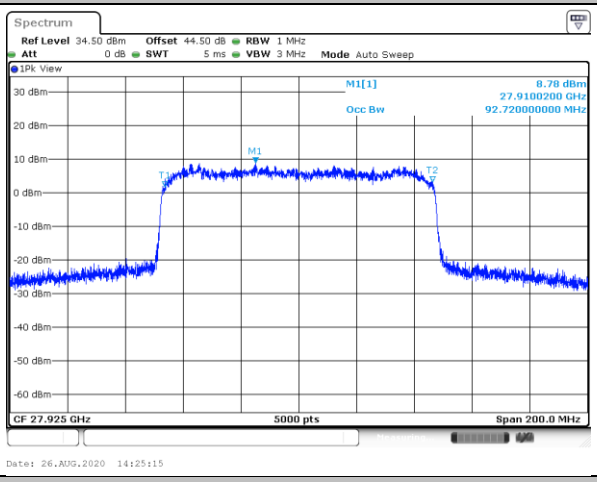
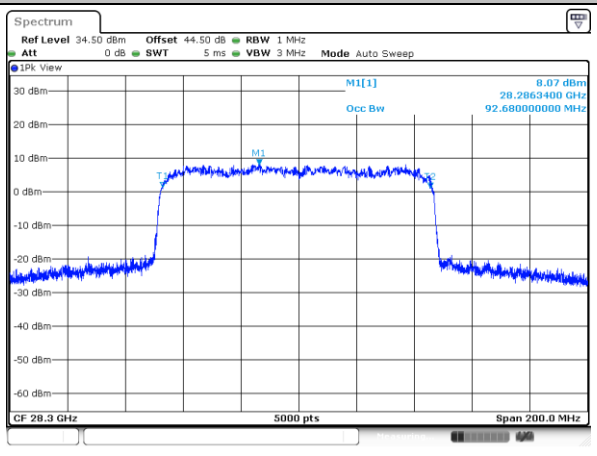
DFT-s-OFDM Module 0

NR Band n261	
Middle Channel / 400MHz / 16QAM	**Middle Channel / 400MHz / 64QAM**
	

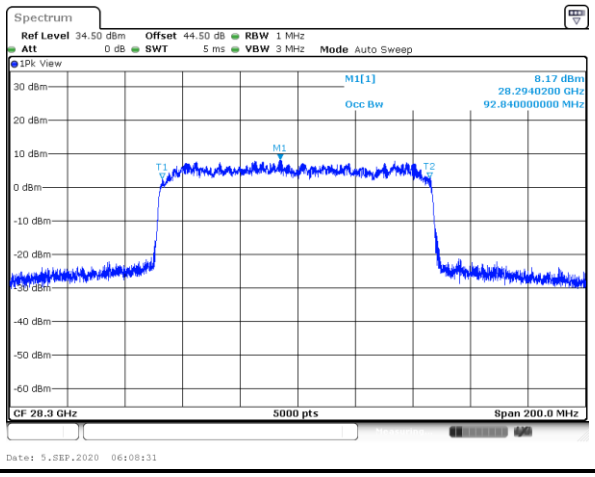
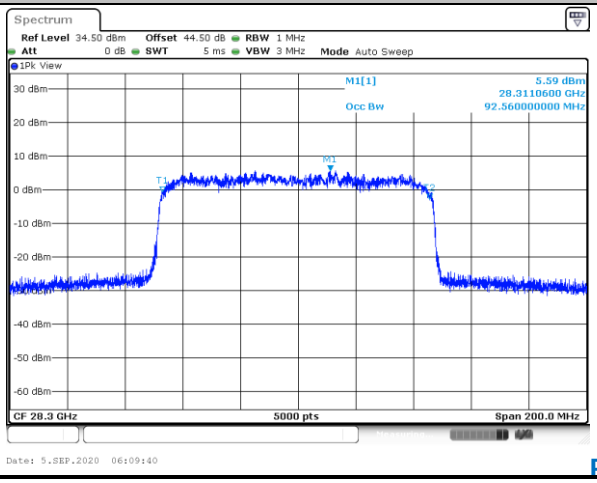
CP-OFDM Module 0

NR Band n261	
Lowest Channel / 50MHz / QPSK	
	
Middle Channel / 50MHz / QPSK	**Middle Channel / 50MHz / 16QAM**
	
Highest Channel / 50MHz / QPSK	
	

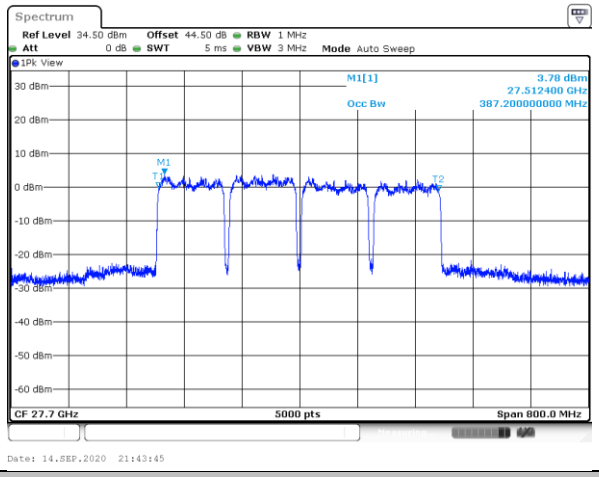
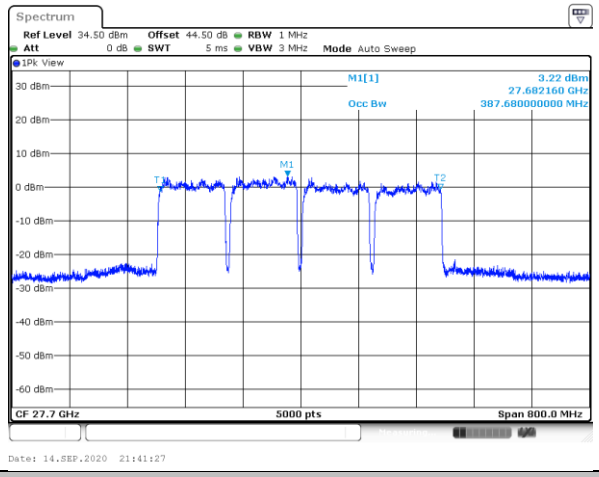
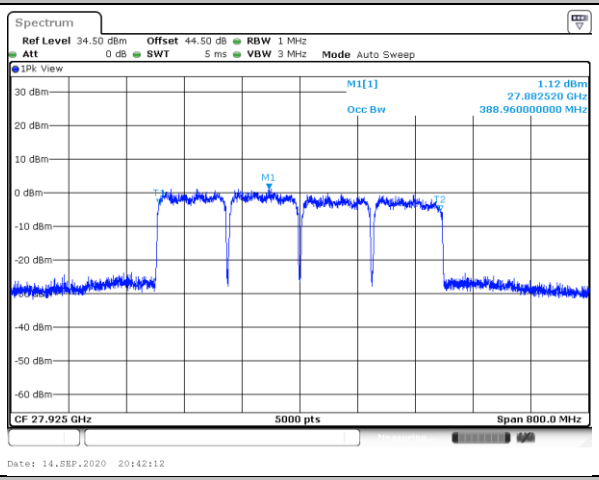
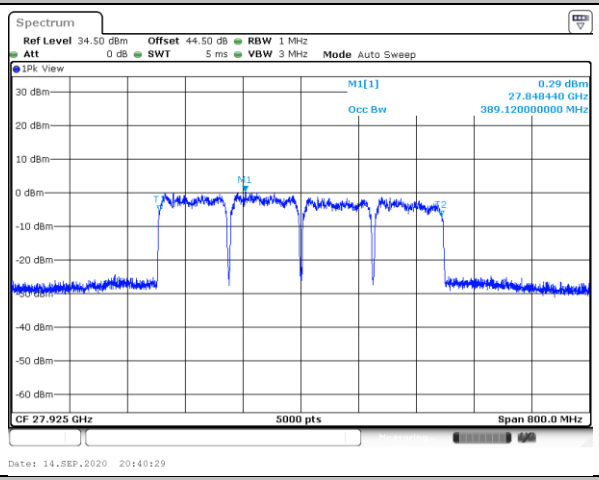
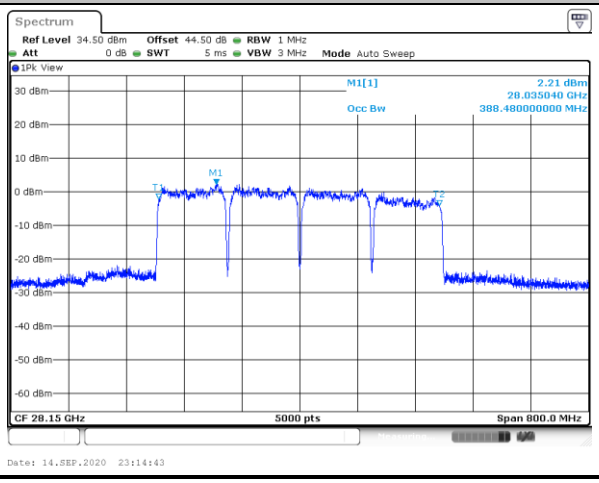
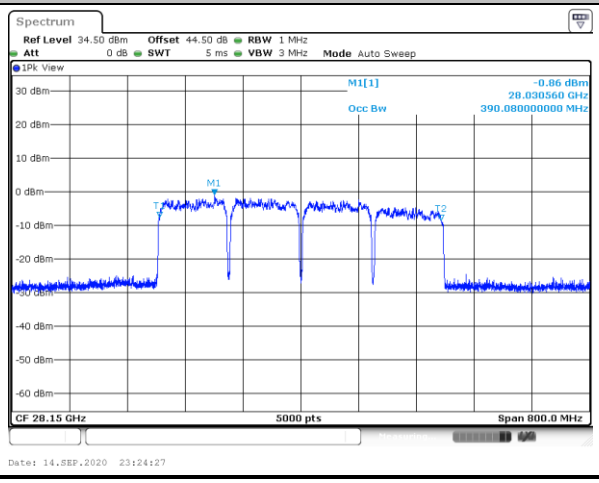
CP-OFDM Module 0

NR Band n261	
	Lowest Channel / 100MHz / QPSK
	
Middle Channel / 50MHz / 64QAM	**Middle Channel / 100MHz / QPSK**
	
	Highest Channel / 100MHz / QPSK
	

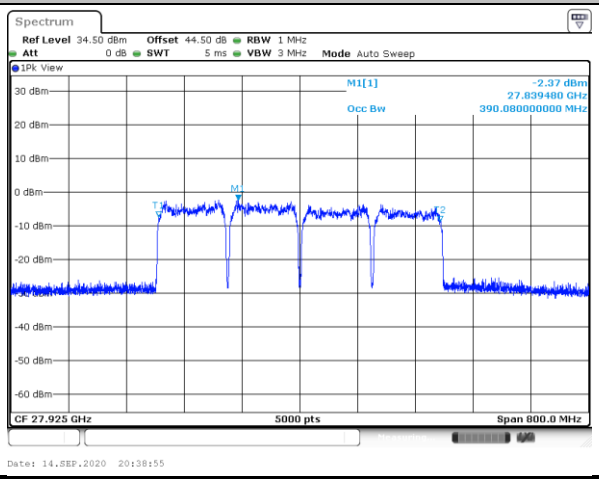
CP-OFDM Module 0

NR Band n261	
Middle Channel / 100MHz / 16QAM	**Middle Channel / 100MHz / 64QAM**
	

CP-OFDM Module 0

NR Band n261	
Lowest Channel / 400MHz / QPSK	**Lowest Channel / 400MHz / 16QAM**
	
Middle Channel / 400MHz / QPSK	**Middle Channel / 400MHz / 16QAM**
	
Highest Channel / 400MHz / QPSK	**Highest Channel / 400MHz / 16QAM**
	

CP-OFDM Module 0

NR Band n261	
Middle Channel / 400MHz / 64QAM	
	**intentionally blank**

Radiated Out of Band Emissions

Mode			DFT-s-OFDM Module 0 NR Band n261 : BE (dBm) 1 RB											
BW			50MHz				100MHz				400MHz			
Limit (dBm)			BPSK	QPSK	16QAM	64QAM	BPSK	QPSK	16QAM	64QAM	BPSK	QPSK	16QAM	64QAM
Low CH	0~10%OB	≦-5	-24.81	-24.25	-	-	-21.77	-19.97	-	-	-30.38	-30.28	-	-
	>10%OB	≦-13	-33.67	-33.58	-	-	-33.95	-33.99	-	-	-31.41	-28.37	-	-
High CH	0~10%OB	≦-5	-24.69	-24.4	-	-	-25.01	-23.88	-	-	-33.03	-32.71	-	-
	>10%OB	≦-13	-32.5	-32.51	-	-	-32.6	-32.45	-	-	-33.13	-33.04	-	-
Result			Compliance											

Mode			CP-OFDM Module 0 NR Band n261 : BE (dBm) 1 RB								
BW			50MHz			100MHz			400MHz		
Limit (dBm)			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Low CH	0~10%OB	≦-5	-23.94	-	-	-20.54	-	-	-29.27	-	-
	>10%OB	≦-13	-33.53	-	-	-33.76	-	-	-24.75	-	-
High CH	0~10%OB	≦-5	-24.75	-	-	-25.57	-	-	-32.6	-	-
	>10%OB	≦-13	-32.6	-	-	-32.57	-	-	-29.16	-	-
Result			Compliance								

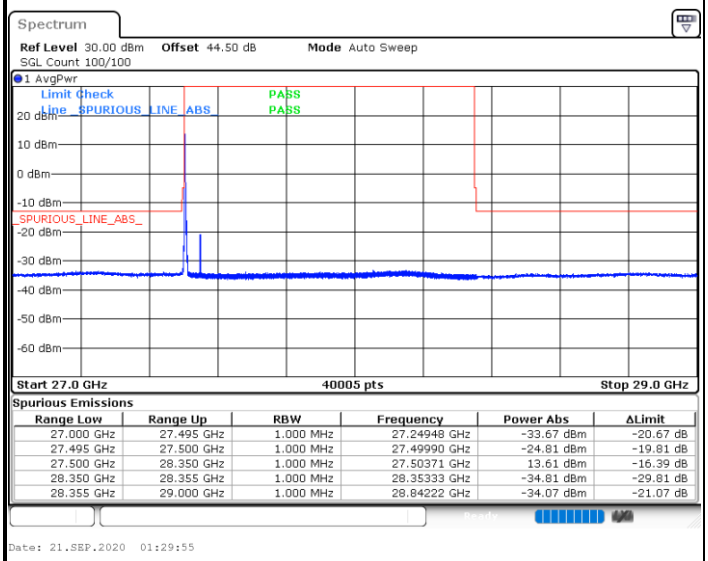
Mode			DFT-s-OFDM Module 0 NR Band n261 : BE (dBm) Full RB											
BW			50MHz				100MHz				400MHz			
Limit (dBm)			BPSK	QPSK	16QAM	64QAM	BPSK	QPSK	16QAM	64QAM	BPSK	QPSK	16QAM	64QAM
Low CH	0~10%OB	≦-5	-30.51	-27.07	-	-	-30.35	-27.97	-	-	-31.72	-29.81	-	-
	>10%OB	≦-13	-32.16	-27.42	-	-	-32.3	-29.21	-	-	-31.63	-30.04	-	-
High CH	0~10%OB	≦-5	-28.1	-23.71	-	-	-31.36	-27.57	-	-	-33.97	-33.57	-	-
	>10%OB	≦-13	-31.35	-26.69	-	-	-32.65	-30.27	-	-	-34.31	-34.26	-	-
Result			Compliance											

Mode			CP-OFDM Module 0 NR Band n261 : BE (dBm) Full RB								
BW			50MHz			100MHz			400MHz		
Limit (dBm)			QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Low CH	0~10%OB	≦-5	-27.71	-	-	-28.97	-	-	-31.17	-	-
	>10%OB	≦-13	-29.23	-	-	-30.55	-	-	-31.27	-	-
High CH	0~10%OB	≦-5	-25.39	-	-	-28.57	-	-	-33.04	-	-
	>10%OB	≦-13	-28.54	-	-	-31.2	-	-	-33.9	-	-
Result			Compliance								

DFT-s-OFDM Module 0

NR Band n261 / 50MHz / BPSK

Lowest Band Edge / 1 RB

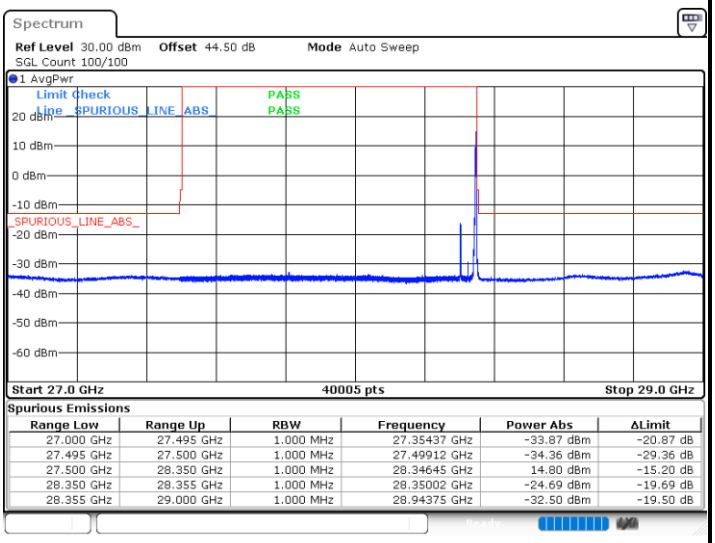


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
27.000 GHz	27.495 GHz	1.000 MHz	27.24948 GHz	-33.67 dBm	-20.67 dB
27.495 GHz	27.500 GHz	1.000 MHz	27.49990 GHz	-24.81 dBm	-19.81 dB
27.500 GHz	28.350 GHz	1.000 MHz	27.50371 GHz	13.61 dBm	-16.39 dB
28.350 GHz	28.355 GHz	1.000 MHz	28.35333 GHz	-34.81 dBm	-29.81 dB
28.355 GHz	29.000 GHz	1.000 MHz	28.84222 GHz	-34.07 dBm	-21.07 dB

Date: 21.SEP.2020 01:29:55

Highest Band Edge / 1 RB



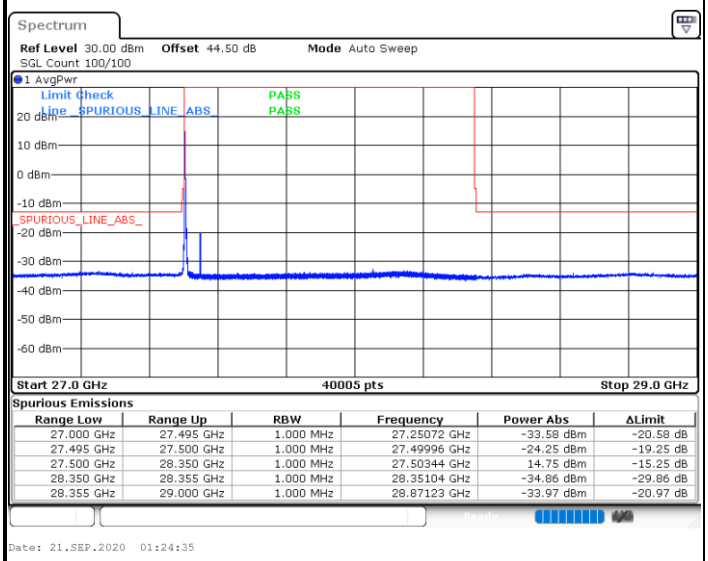
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
27.000 GHz	27.495 GHz	1.000 MHz	27.35437 GHz	-33.87 dBm	-20.87 dB
27.495 GHz	27.500 GHz	1.000 MHz	27.49912 GHz	-34.36 dBm	-29.36 dB
27.500 GHz	28.350 GHz	1.000 MHz	28.34645 GHz	14.80 dBm	-15.20 dB
28.350 GHz	28.355 GHz	1.000 MHz	28.35002 GHz	-24.69 dBm	-19.69 dB
28.355 GHz	29.000 GHz	1.000 MHz	28.94375 GHz	-32.50 dBm	-19.50 dB

Date: 5.SEP.2020 06:46:21

NR Band n261 / 50MHz / QPSK

Lowest Band Edge / 1 RB

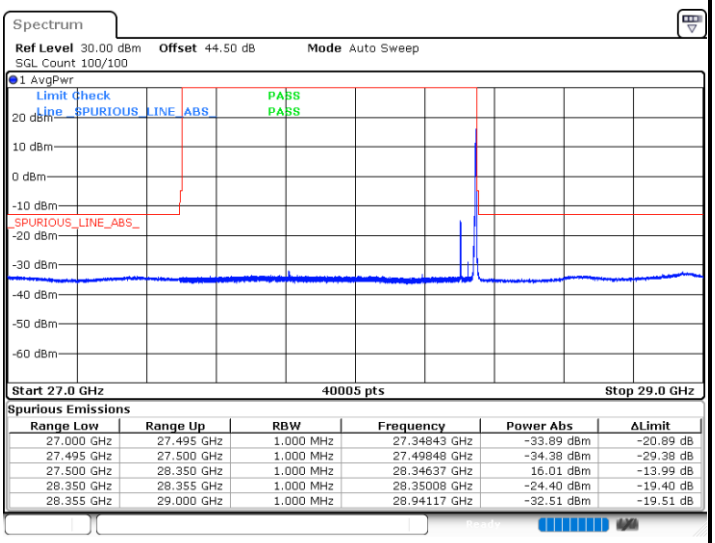


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
27.000 GHz	27.495 GHz	1.000 MHz	27.25072 GHz	-33.58 dBm	-20.58 dB
27.495 GHz	27.500 GHz	1.000 MHz	27.49996 GHz	-24.25 dBm	-19.25 dB
27.500 GHz	28.350 GHz	1.000 MHz	27.50344 GHz	14.75 dBm	-15.25 dB
28.350 GHz	28.355 GHz	1.000 MHz	28.35104 GHz	-34.86 dBm	-29.86 dB
28.355 GHz	29.000 GHz	1.000 MHz	28.87123 GHz	-33.97 dBm	-20.97 dB

Date: 21.SEP.2020 01:24:35

Highest Band Edge / 1 RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
27.000 GHz	27.495 GHz	1.000 MHz	27.34843 GHz	-33.89 dBm	-20.89 dB
27.495 GHz	27.500 GHz	1.000 MHz	27.49848 GHz	-34.38 dBm	-29.38 dB
27.500 GHz	28.350 GHz	1.000 MHz	28.34637 GHz	16.01 dBm	-13.99 dB
28.350 GHz	28.355 GHz	1.000 MHz	28.35008 GHz	-24.40 dBm	-19.40 dB
28.355 GHz	29.000 GHz	1.000 MHz	28.94117 GHz	-32.51 dBm	-19.51 dB

Date: 5.SEP.2020 06:45:31