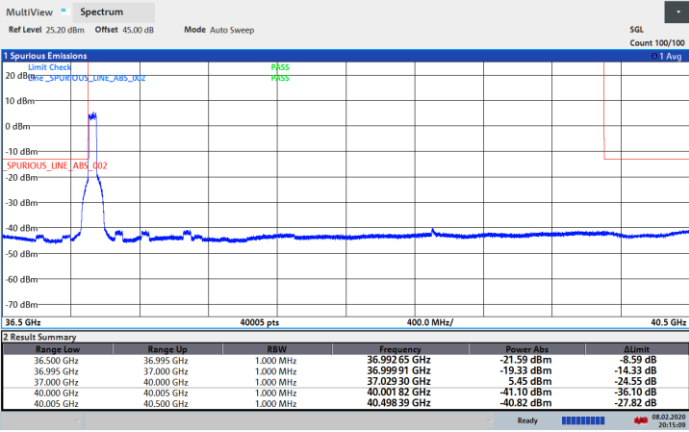




Module 1 AG1

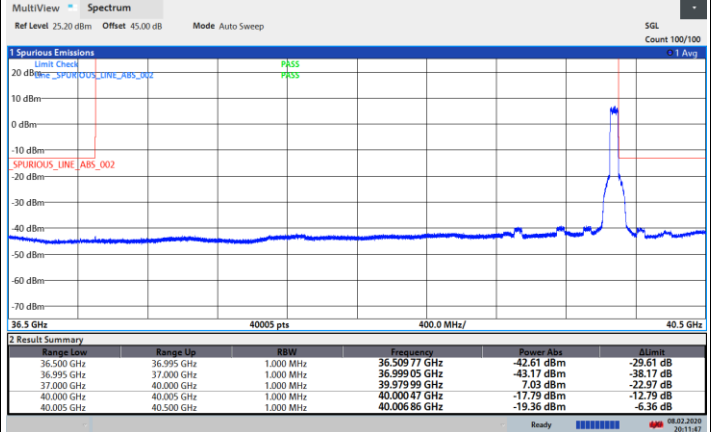
NR Band n260 / 50MHz / QPSK

Lowest Band Edge / Full RB



20:15:10 08.02.2020

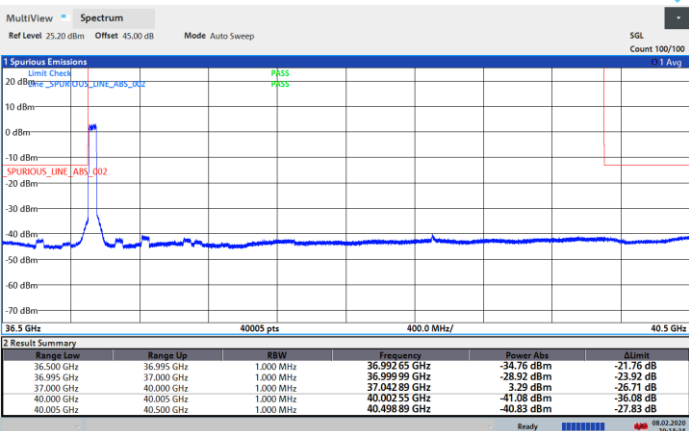
Highest Band Edge / Full RB



20:11:47 08.02.2020

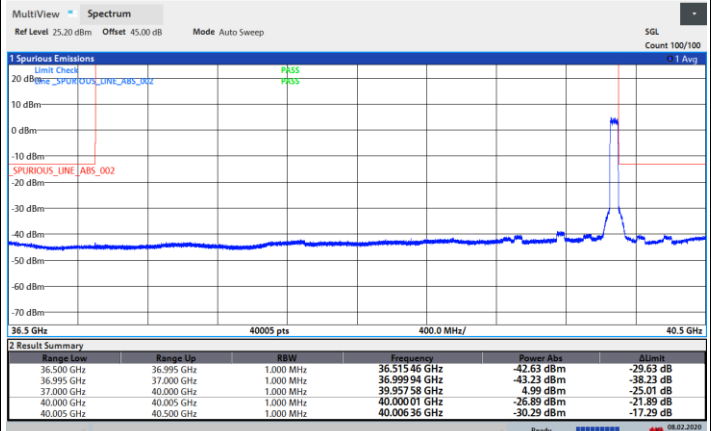
NR Band n260 / 50MHz / 16QAM

Lowest Band Edge / Full RB



20:14:34 08.02.2020

Highest Band Edge / Full RB



20:12:17 08.02.2020

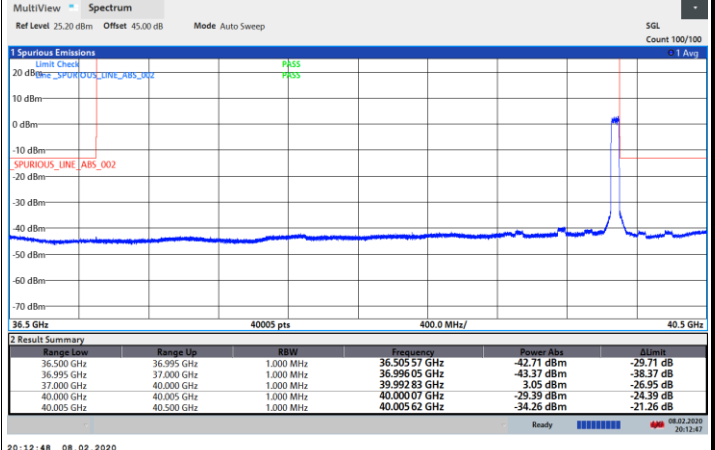
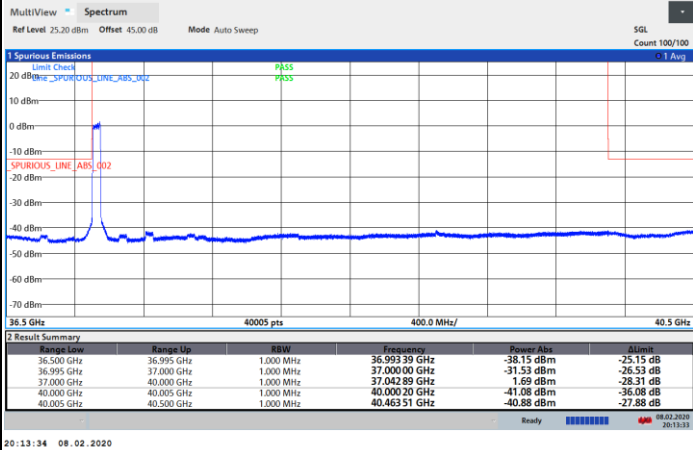


Module 1 AG1

NR Band n260 / 50MHz / 64QAM

Lowest Band Edge / Full RB

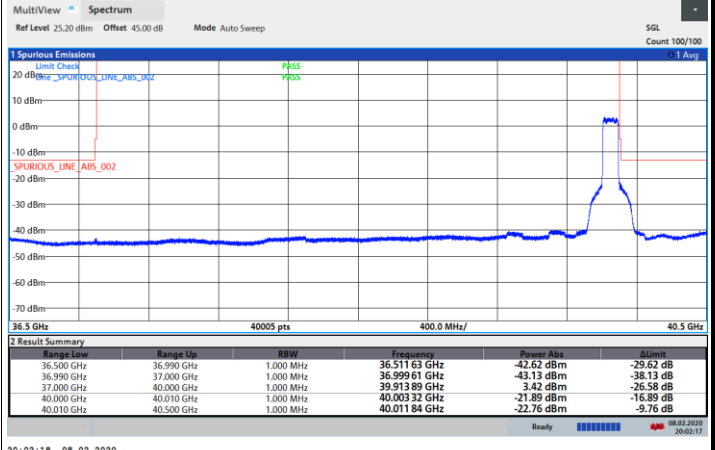
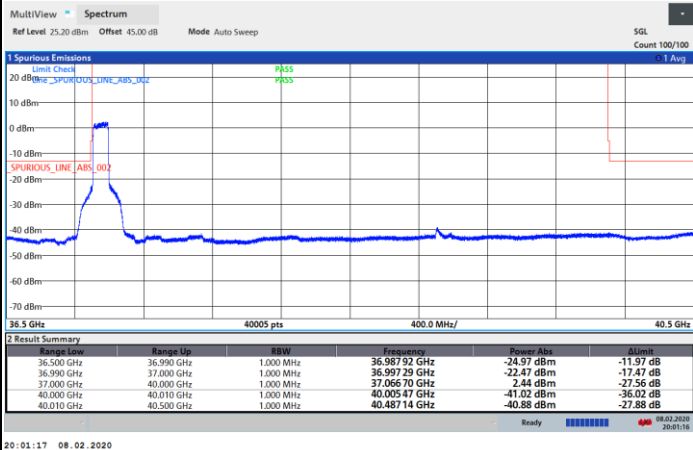
Highest Band Edge / Full RB



NR Band n260 / 100MHz / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

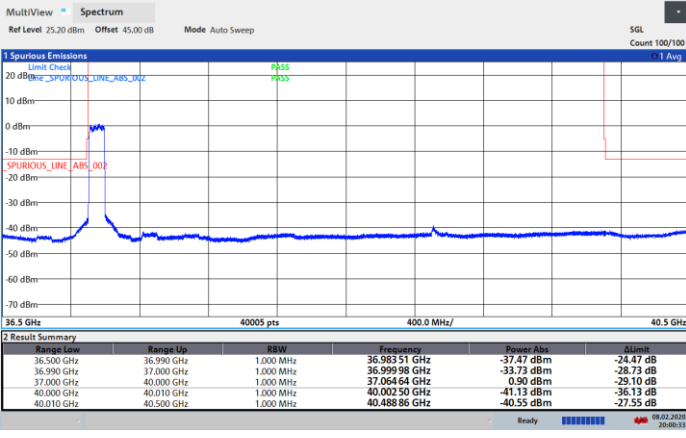




Module 1 AG1

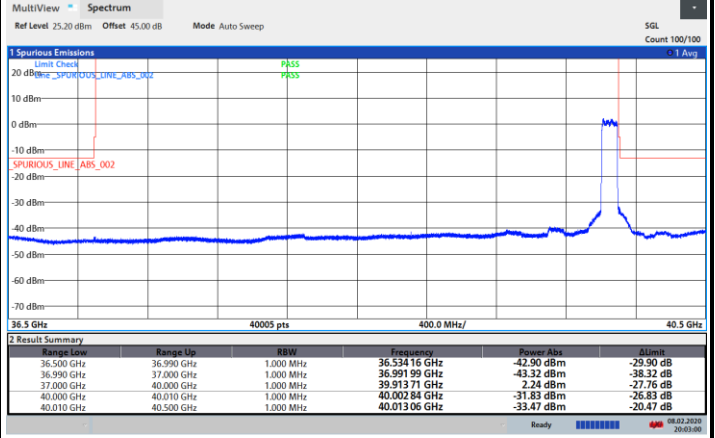
NR Band n260 / 100MHz / 16QAM

Lowest Band Edge / Full RB



20:00:35 08.02.2020

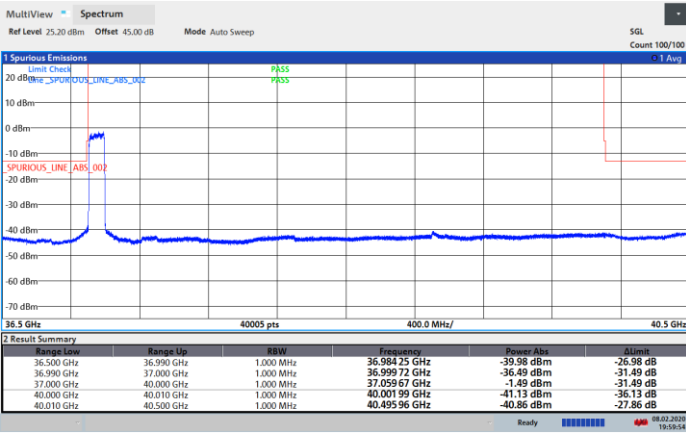
Highest Band Edge / Full RB



20:03:01 08.02.2020

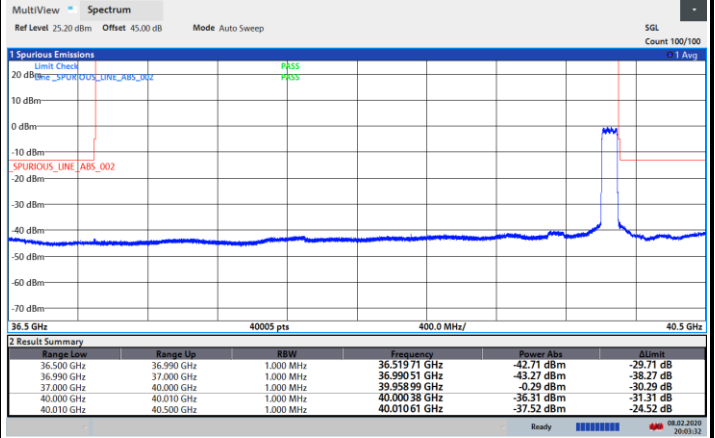
NR Band n260 / 100MHz / 64QAM

Lowest Band Edge / Full RB



19:59:55 08.02.2020

Highest Band Edge / Full RB



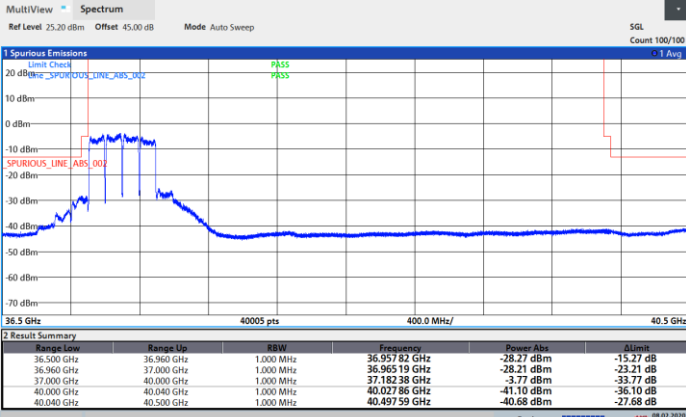
20:03:32 08.02.2020



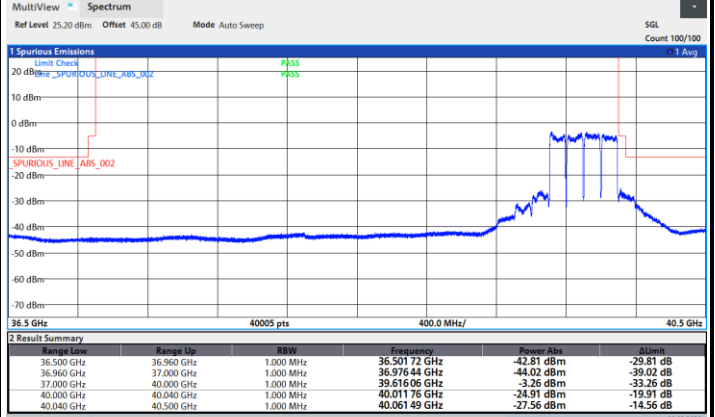
Module 1 AG1

NR Band n260 / 400MHz / QPSK

Lowest Band Edge / Full RB

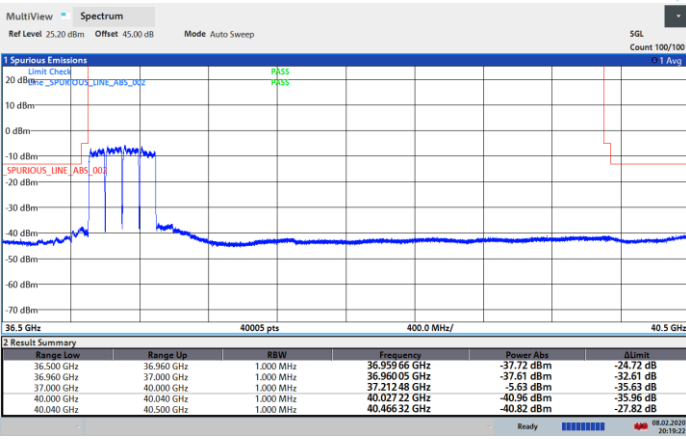


Highest Band Edge / Full RB

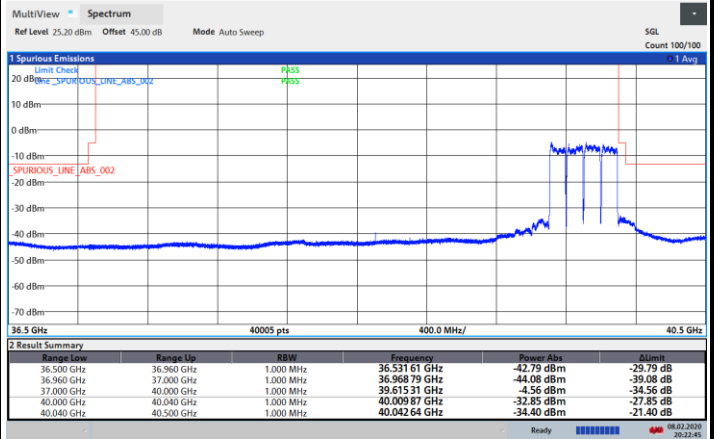


NR Band n260 / 400MHz / 16QAM

Lowest Band Edge / Full RB

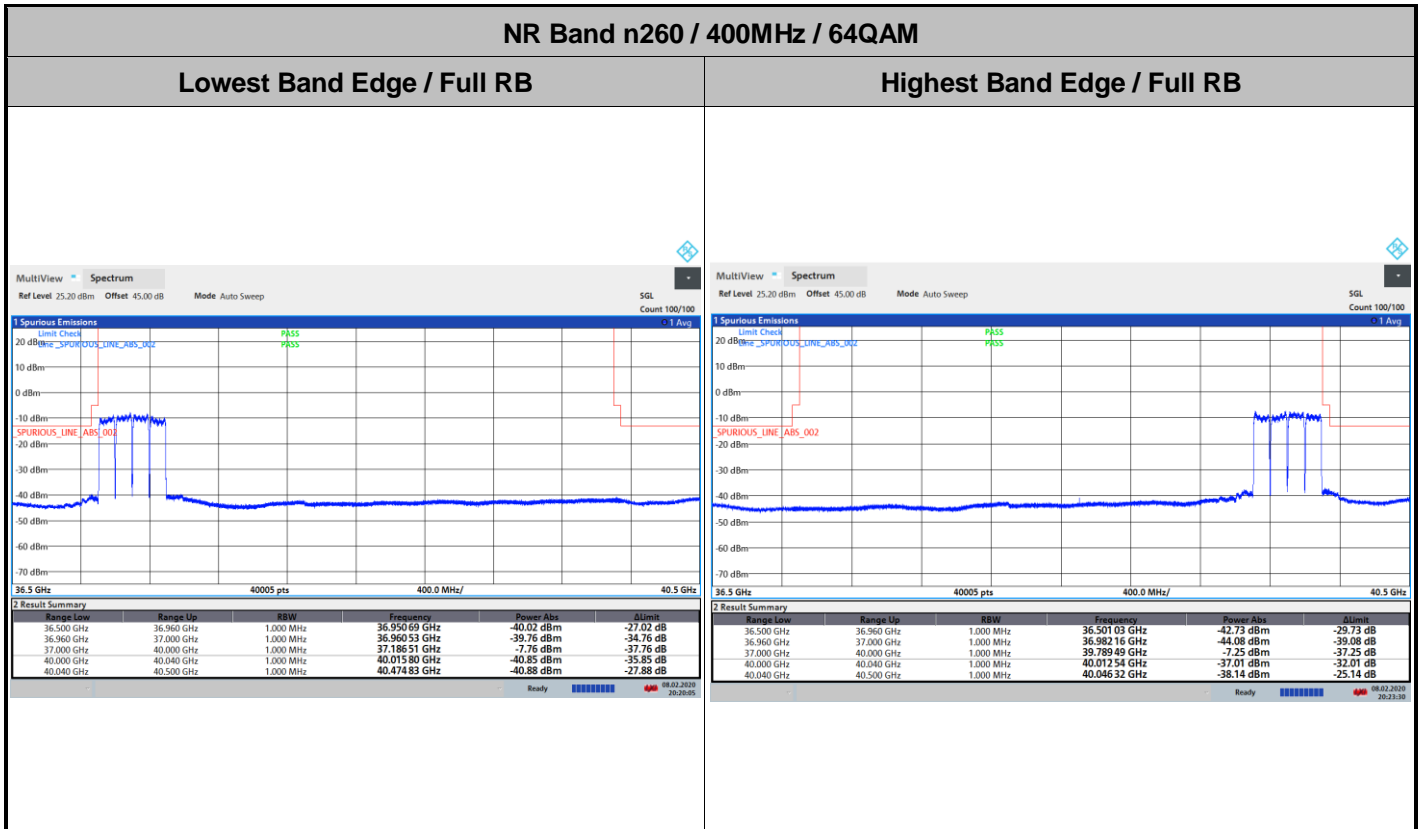


Highest Band Edge / Full RB





Module 1 AG1



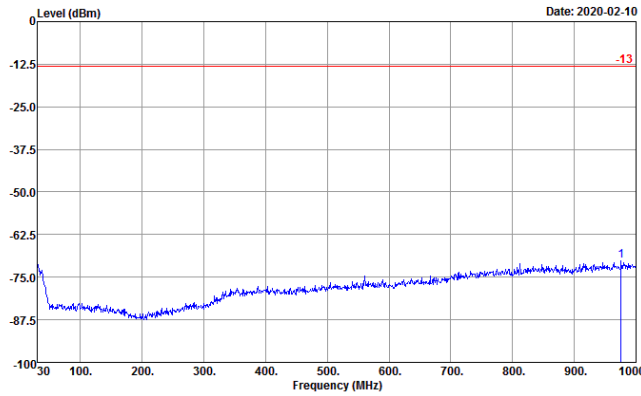


# Spurious Emission

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-18GHz)

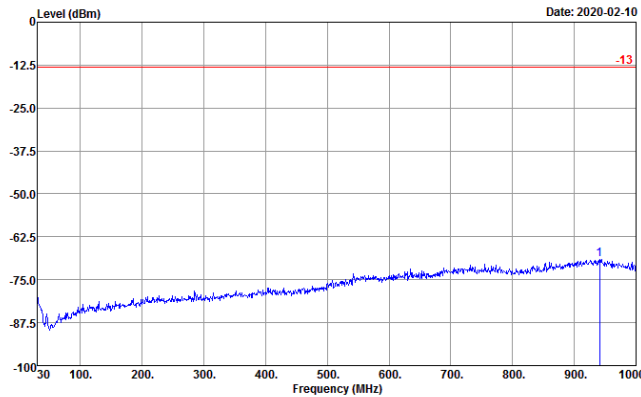
### Horizontal



Site : 03CH10-HY  
 Condition : -13 EIRP\_WO HORIZONTAL  
 Project : 9D0635  
 : B151-50M-M-30-16 RSE-IRBO-PUSCH-DFT-S

Over	Limit	LISN			
Freq	Level	Limit	Line	Factor	
MHz	dBm	dB	dBm	dB	
1	975.75	-70.29	-57.29	-13.00	38.76

### Vertical



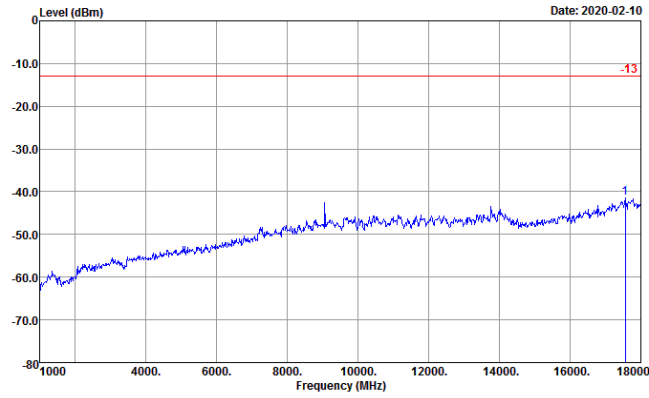
Site : 03CH10-HY  
 Condition : -13 EIRP\_WO VERTICAL  
 Project : 9D0635  
 : B151-50M-M-30-16 RSE-IRBO-PUSCH-DFT-S

Over	Limit	LISN			
Freq	Level	Limit	Line	Factor	
MHz	dBm	dB	dBm	dB	
1	940.83	-68.94	-55.94	-13.00	40.71



NR Band n260 (1GHz-18GHz)

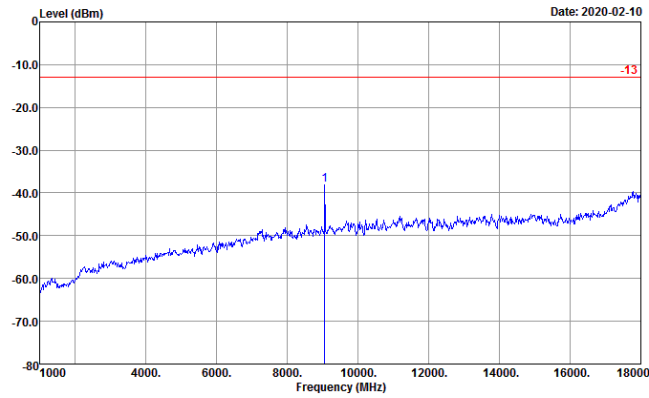
Horizontal



Site : 03CH10-HY  
 Condition : -13 EIRP\_WO HORIZONTAL  
 Project : 9D0635  
 : B151-50M-M-30-16 RSE-IRB0-PUSCH-DFT-S

Freq	Level	Over	Limit	LISN
MHz	dBm	dB	dBm	dB
1 17558.00	-41.41	-28.41	-13.00	72.65

Vertical



Site : 03CH10-HY  
 Condition : -13 EIRP\_WO VERTICAL  
 Project : 9D0635  
 : B151-50M-M-30-16 RSE-IRB0-PUSCH-DFT-S

Freq	Level	Over	Limit	LISN
MHz	dBm	dB	dBm	dB
1 9058.00	-38.19	-25.19	-13.00	60.95

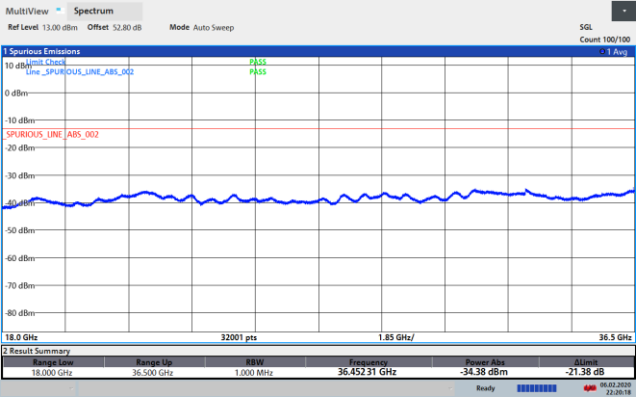


Spurious emission between 18GHz to 40GHz worst case plot is reported as following.

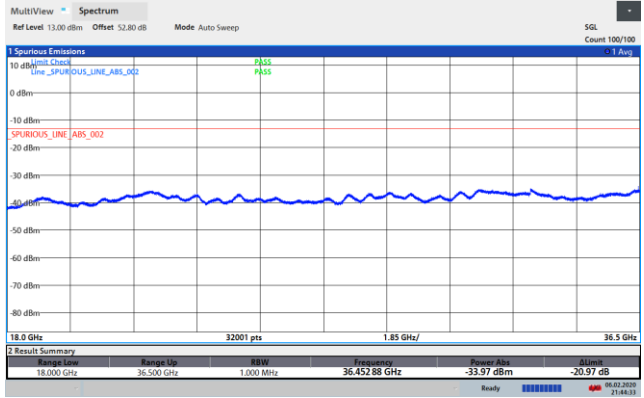
Module 0 AGO

NR Band n260 QPSK (18-40GHz)

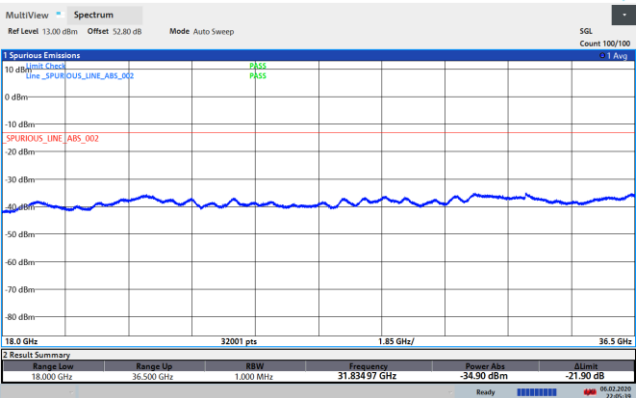
Lowest Channel / 50MHz



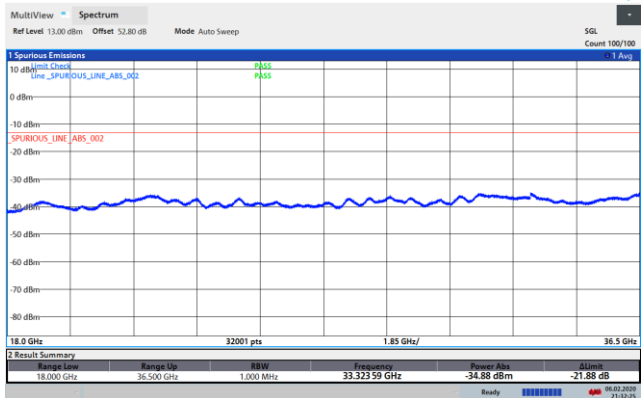
Lowest Channel / 100MHz



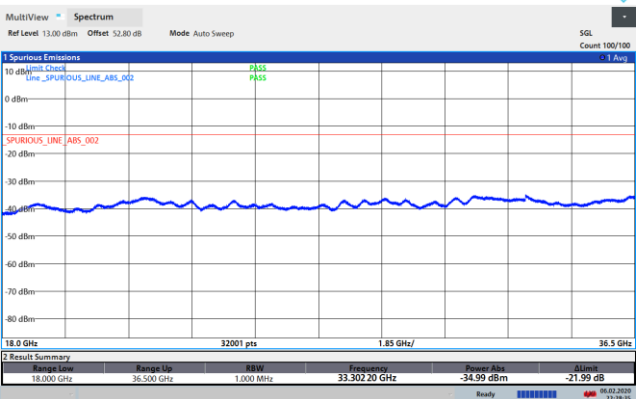
Middle Channel / 50MHz



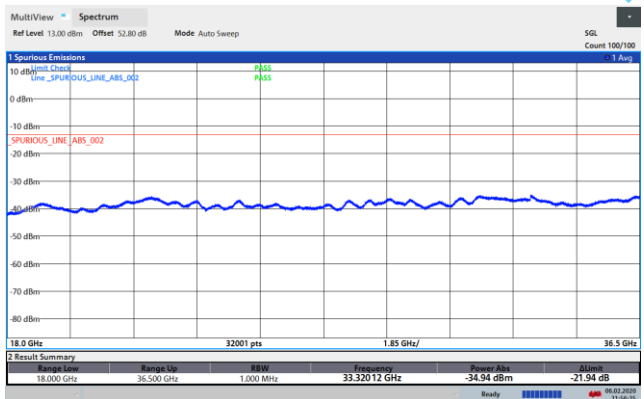
Middle Channel / 100MHz



Highest Channel / 50MHz



Highest Channel / 100MHz



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

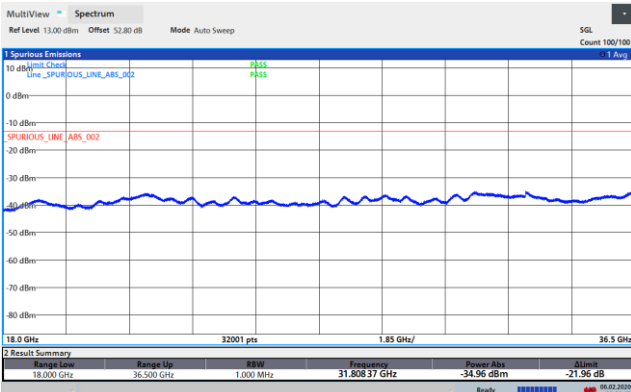




Module 0 AGO

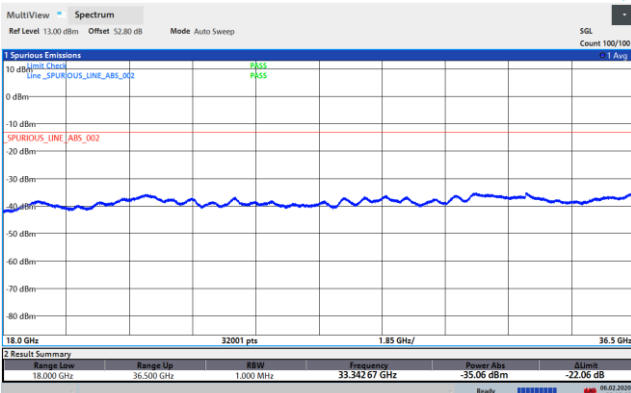
NR Band n260 QPSK (18-40GHz)

Lowest Channel / 400MHz



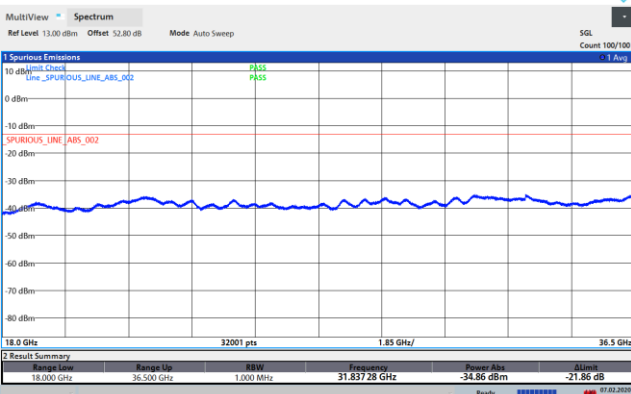
intentionally blank

Middle Channel / 400MHz



intentionally blank

Highest Channel / 400MHz



intentionally blank

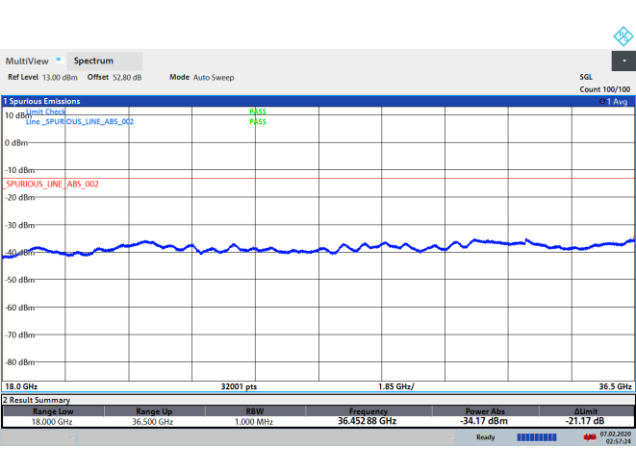
Remark: In band and out of band frequencies are omitted.



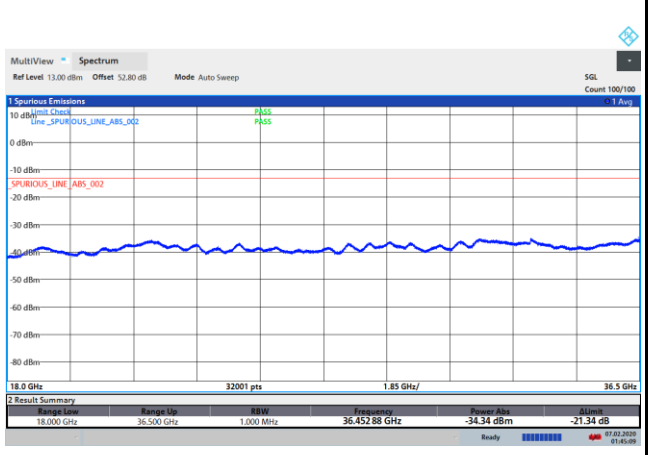
Module 0 AG1

NR Band n260 QPSK (18-40GHz)

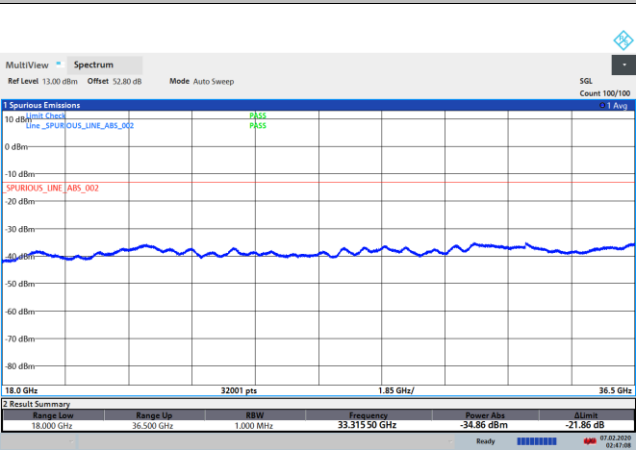
Lowest Channel / 50MHz



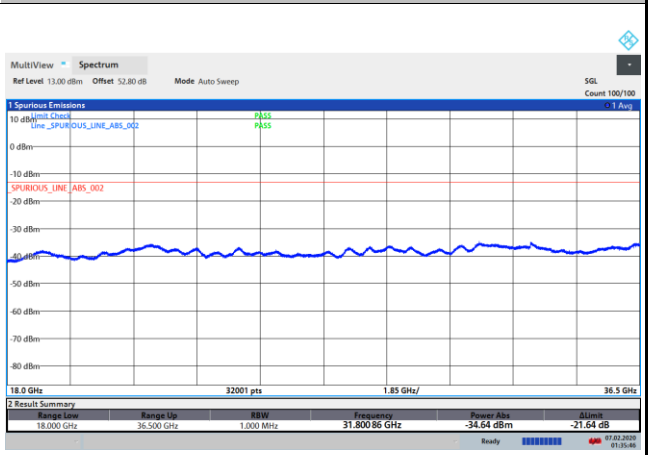
Lowest Channel / 100MHz



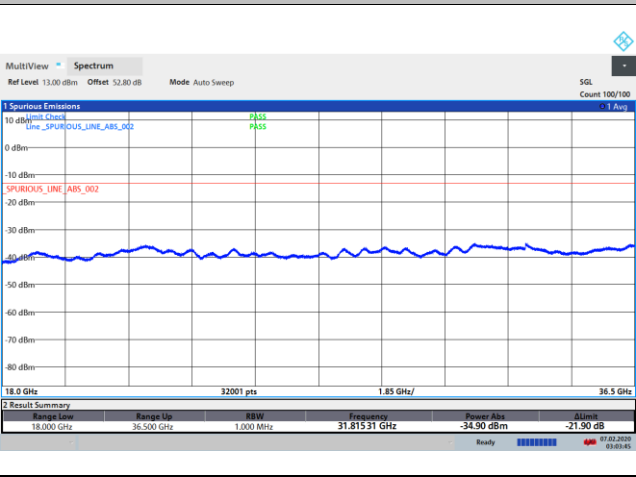
Middle Channel / 50MHz



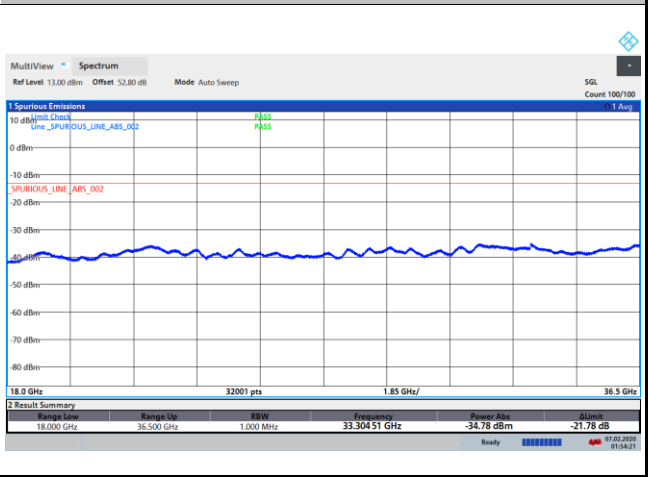
Middle Channel / 100MHz



Highest Channel / 50MHz



Highest Channel / 100MHz



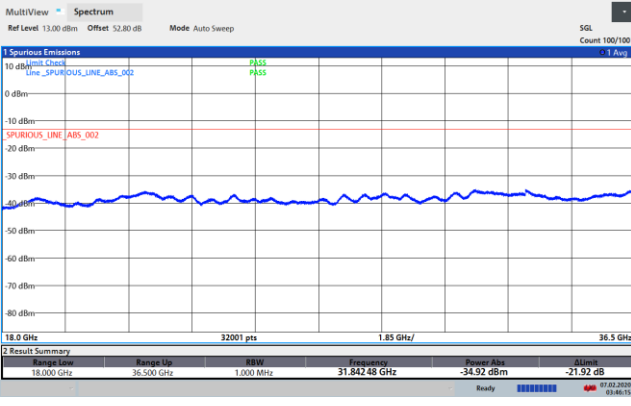
Remark: In band and out of band frequencies are omitted.



Module 0 AG1

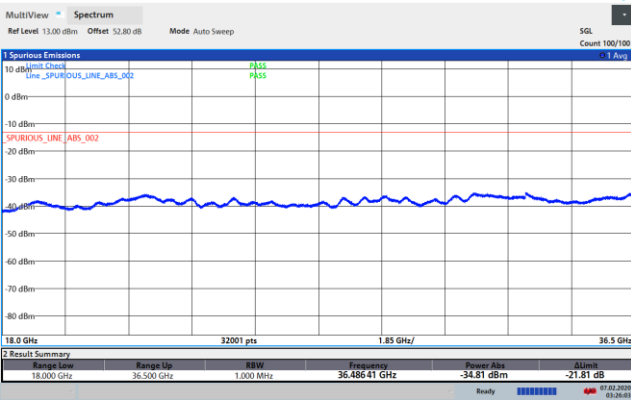
NR Band n260 QPSK (18-40GHz)

Lowest Channel / 400MHz



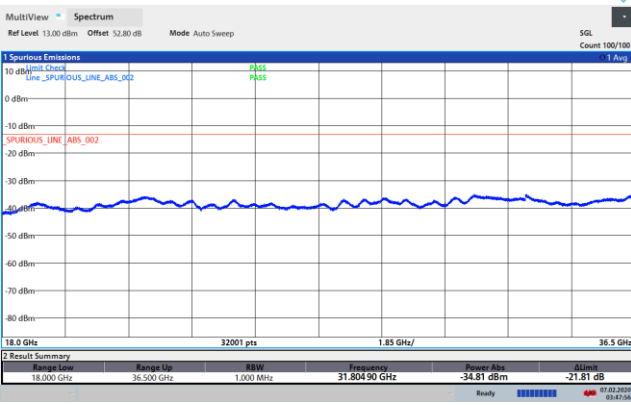
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Middle Channel / 400MHz



intentionally blank

Highest Channel / 400MHz



intentionally blank

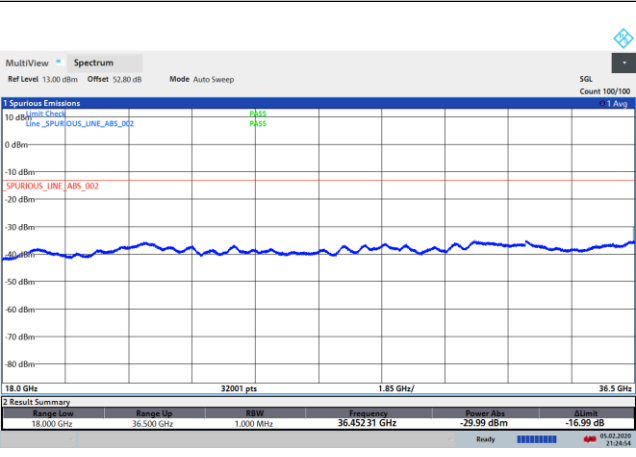
Remark: In band and out of band frequencies are omitted.



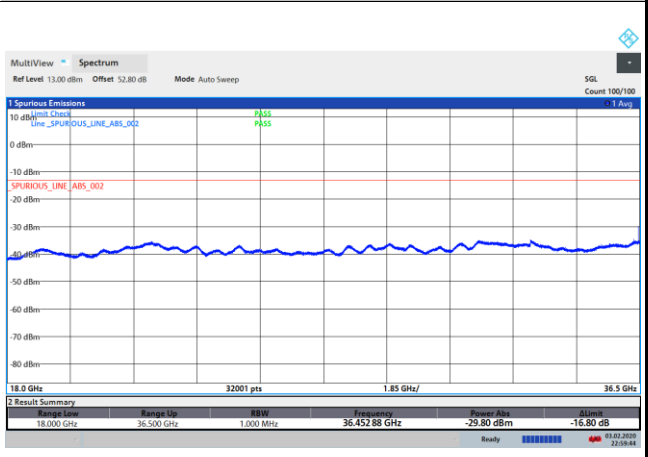
Module 1 AGO

NR Band n260 QPSK (18-40GHz)

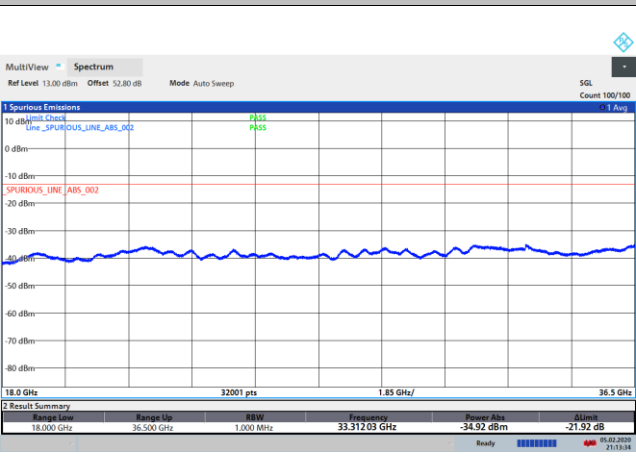
Lowest Channel / 50MHz



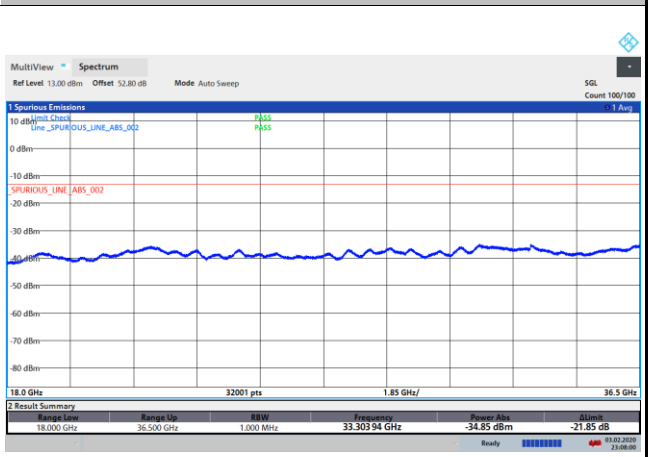
Lowest Channel / 100MHz



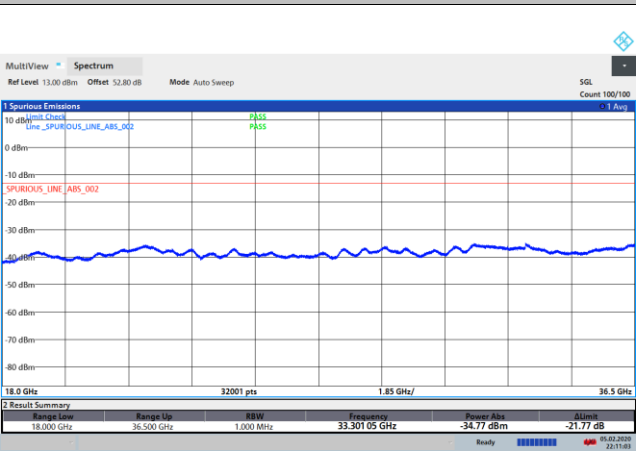
Middle Channel / 50MHz



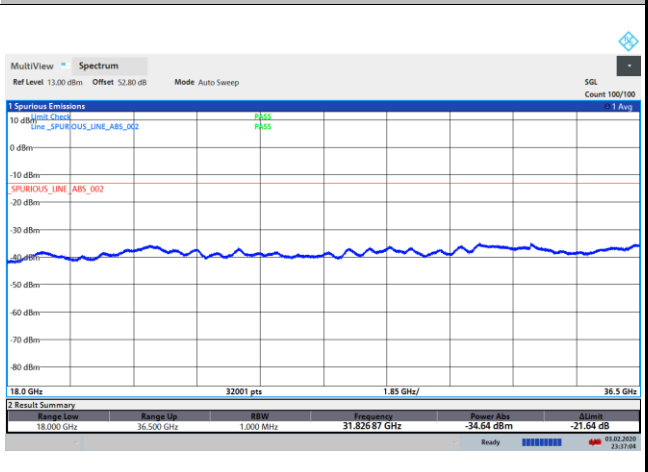
Middle Channel / 100MHz



Highest Channel / 50MHz



Highest Channel / 100MHz



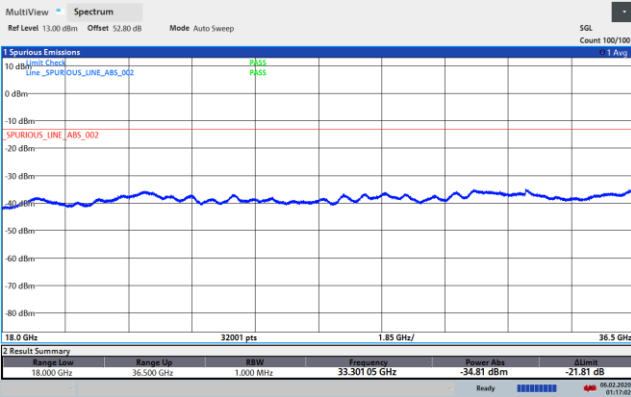
Remark: In band and out of band frequencies are omitted.



Module 1 AG0

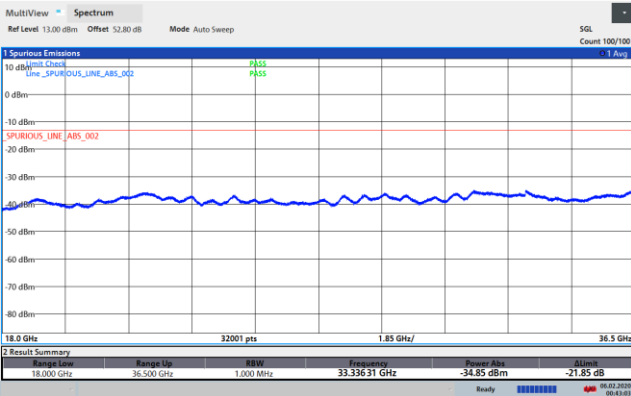
NR Band n260 QPSK (18-40GHz)

Lowest Channel / 400MHz



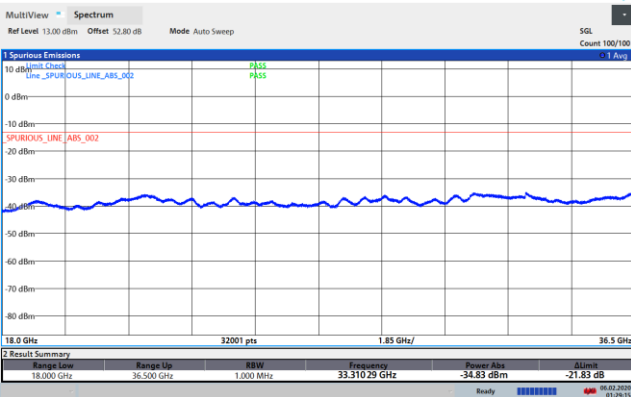
intentionally blank

Middle Channel / 400MHz



intentionally blank

Highest Channel / 400MHz



intentionally blank

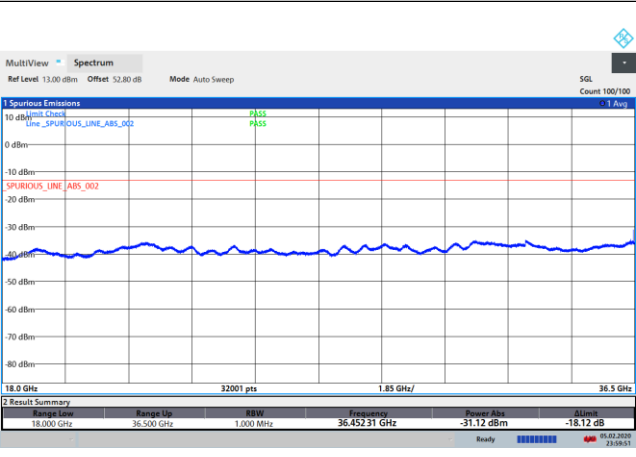
Remark: In band and out of band frequencies are omitted.



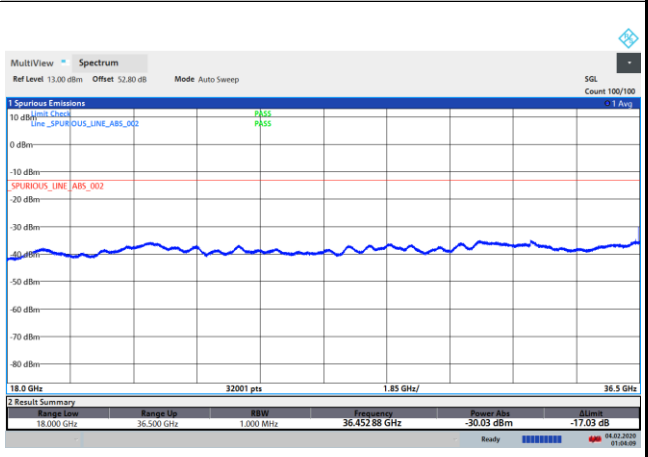
Module 1 AG1

NR Band n260 QPSK (18-40GHz)

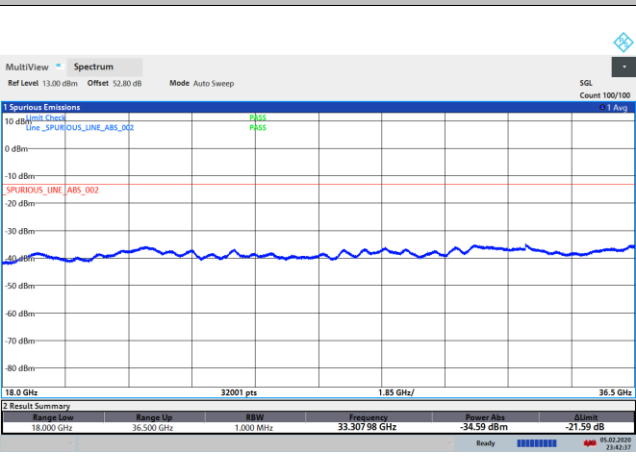
Lowest Channel / 50MHz



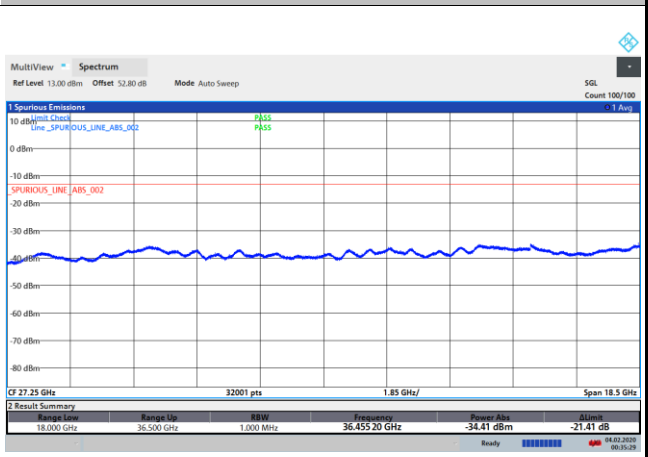
Lowest Channel / 100MHz



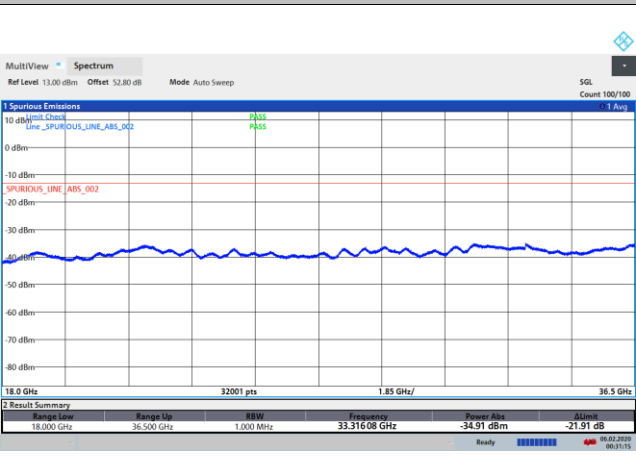
Middle Channel / 50MHz



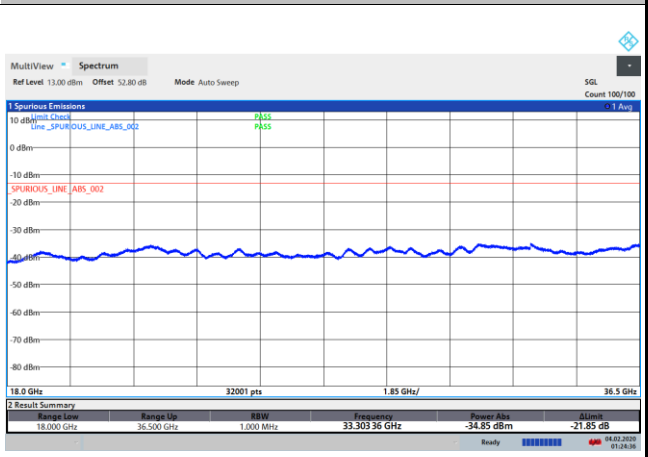
Middle Channel / 100MHz



Highest Channel / 50MHz



Highest Channel / 100MHz



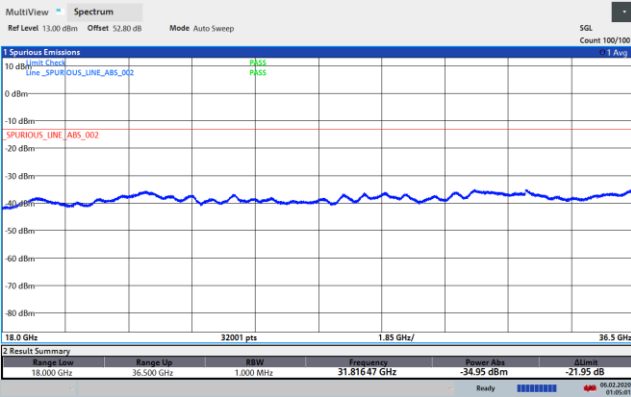
Remark: In band and out of band frequencies are omitted.



Module 1 AG1

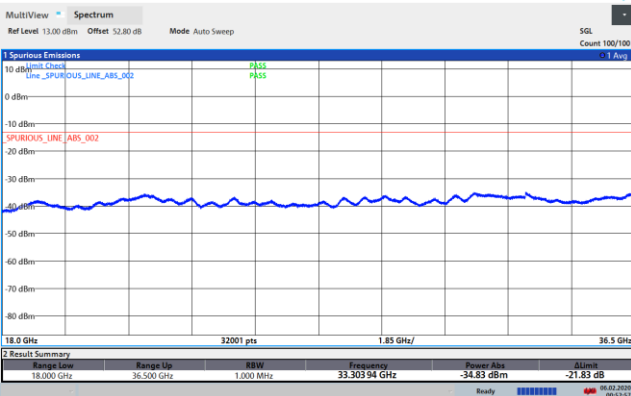
NR Band n260 QPSK (18-40GHz)

Lowest Channel / 400MHz



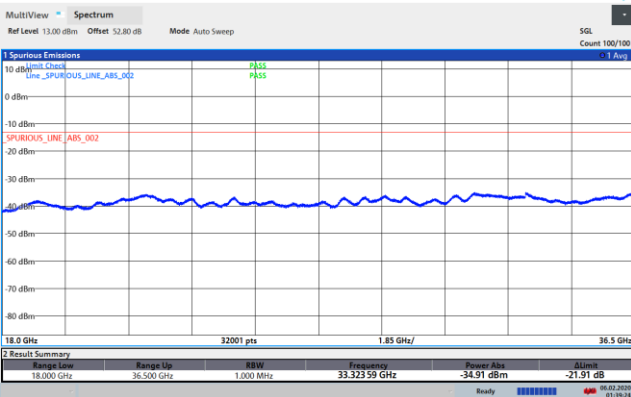
intentionally blank

Middle Channel / 400MHz



intentionally blank

Highest Channel / 400MHz

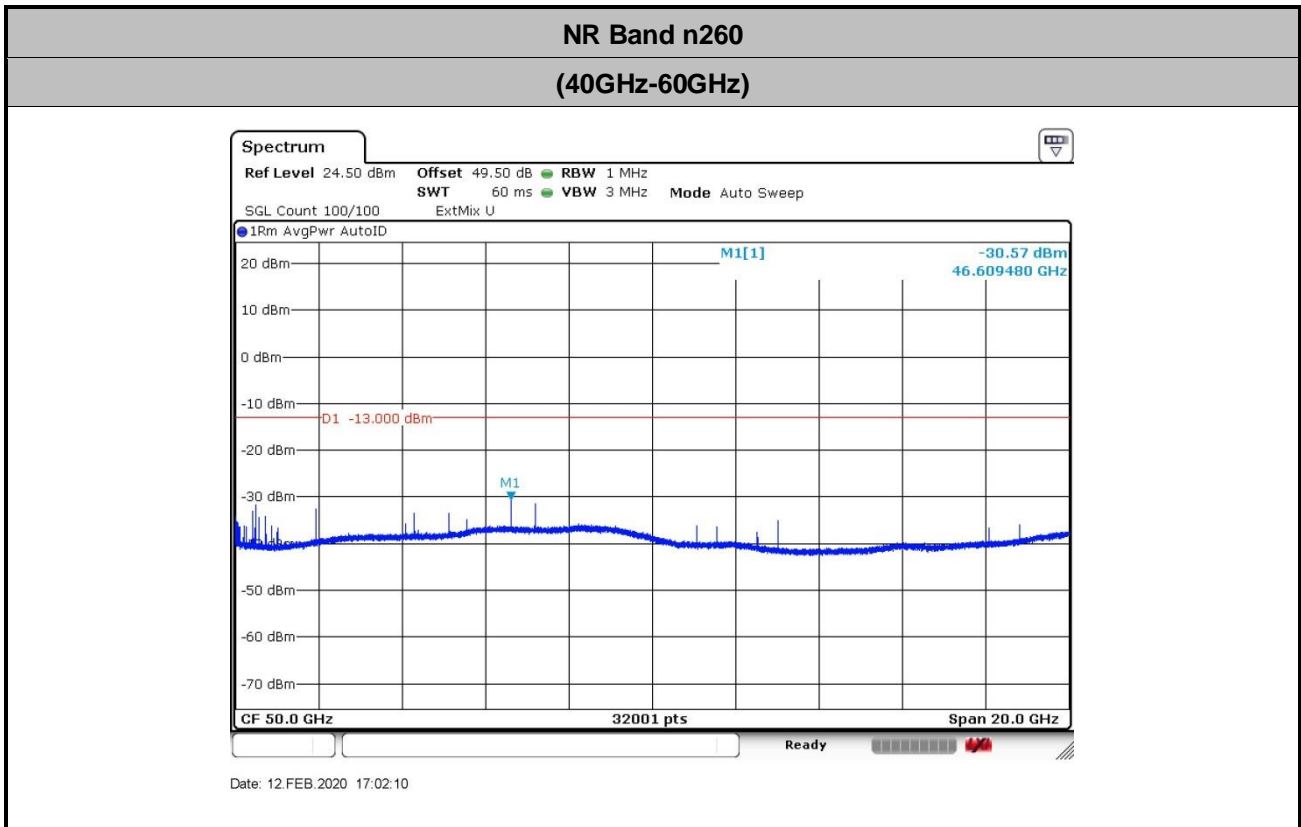


intentionally blank

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

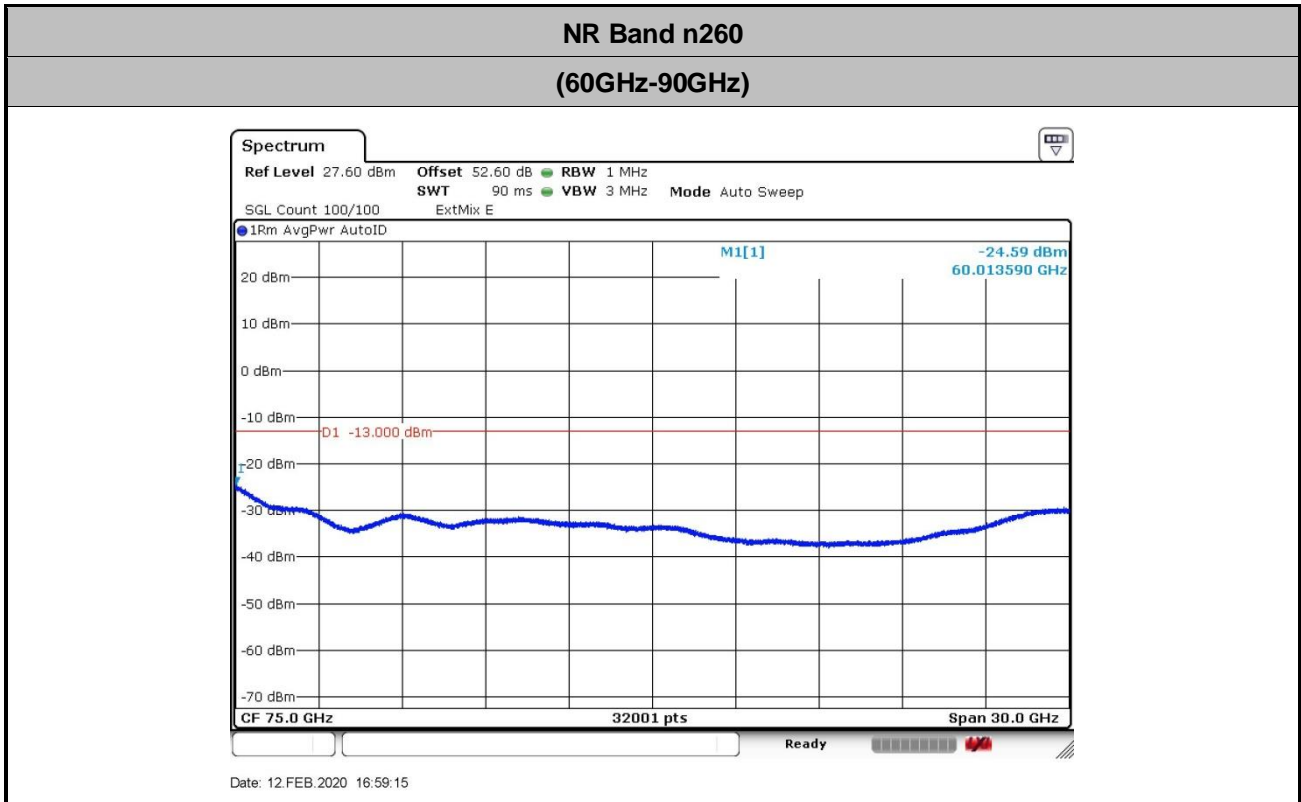


The worst case spurious emission signal found for frequency started from 40GHz up to 200GHz is shown as below. The test result is measured with single beam enabled and plus 3dB dual beam factor. The test result complies with the spurious emission limit.

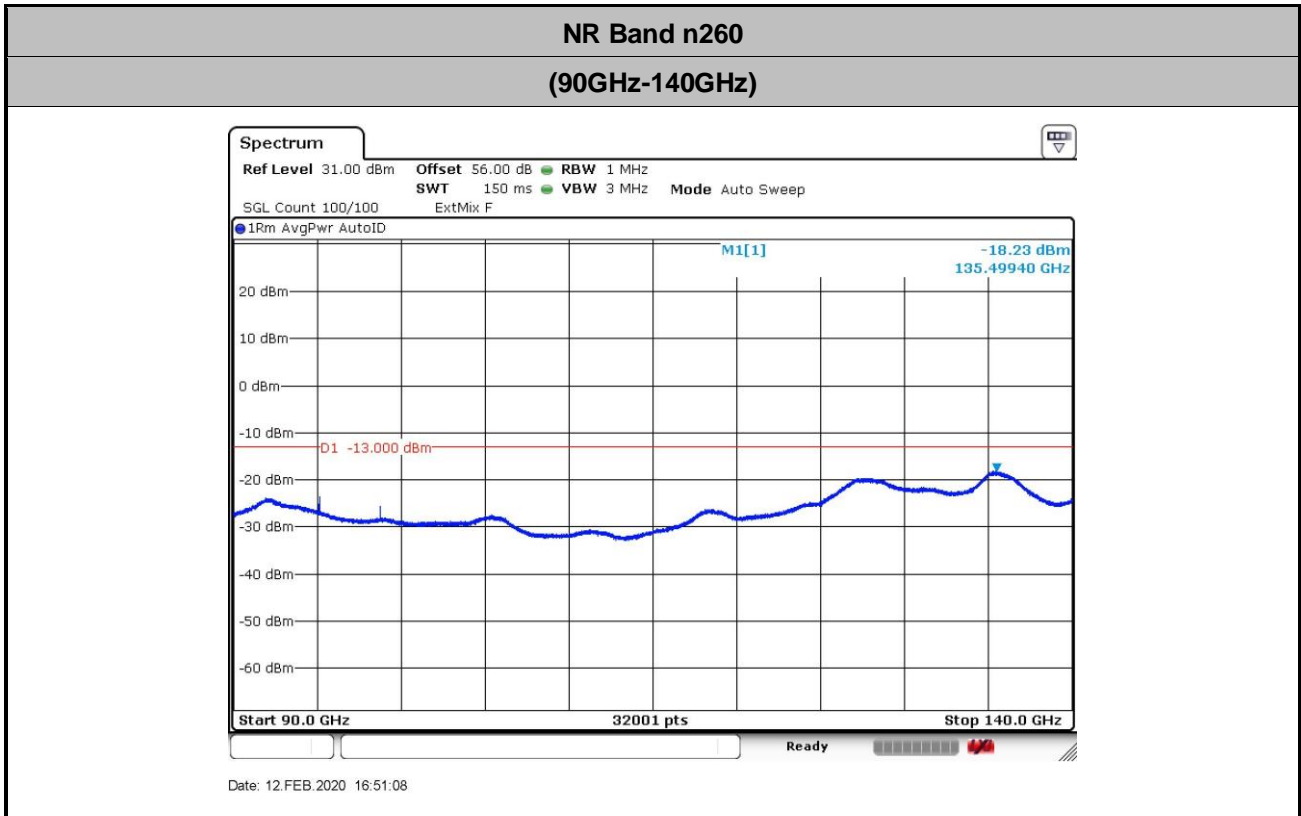


$$\begin{aligned} \text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 + 3\text{dB dual beam factor} \\ &= 42.3 + 2 + 107 + 20\log(1) - 104.8 + 3 = 49.5 \text{ (dB)} \end{aligned}$$

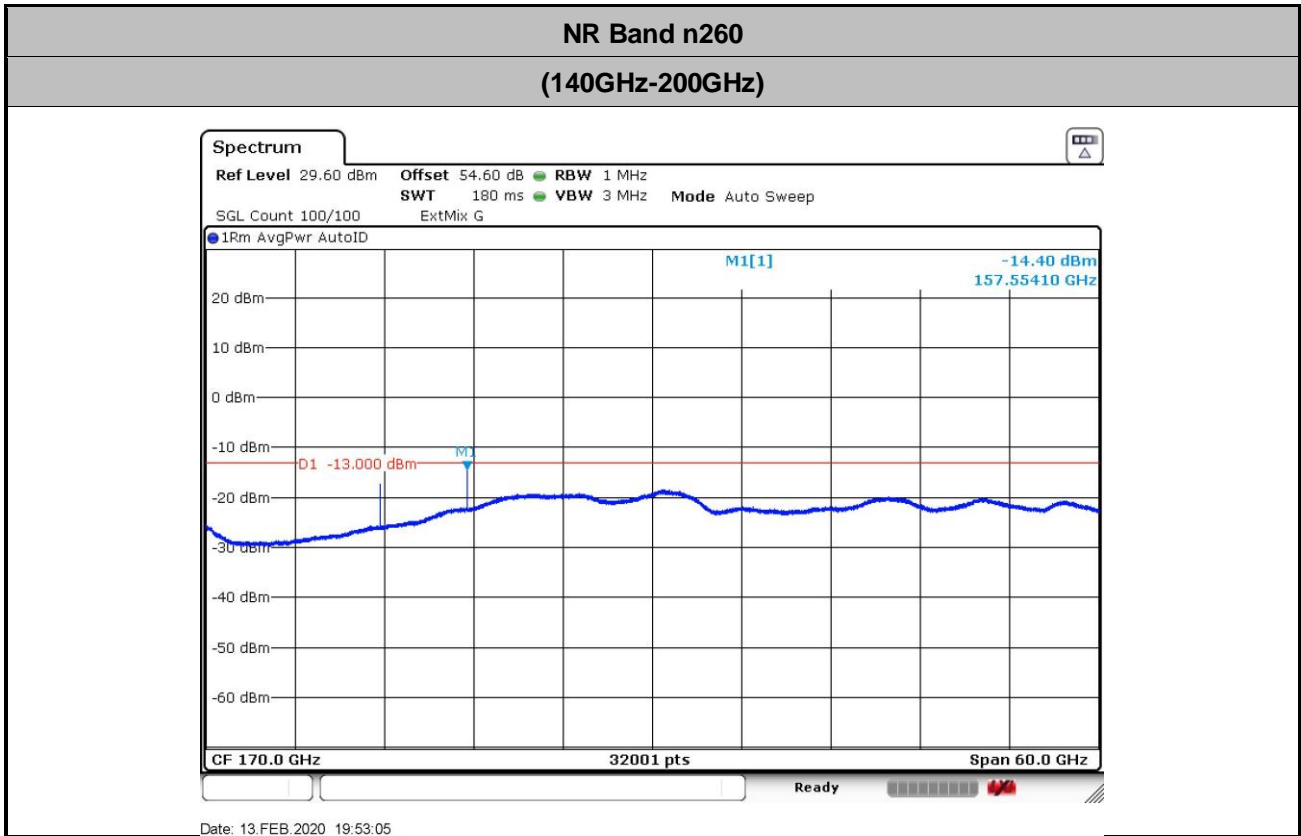




$$\begin{aligned} \text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 + 3\text{dB dual beam factor} \\ &= 45.4 + 2 + 107 + 20\log(1) - 104.8 + 3 = 52.6 \text{ (dB)} \end{aligned}$$



$$\begin{aligned} \text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 + 3\text{dB dual beam factor} \\ &= 48.8 + 2 + 107 + 20\log(1) - 104.8 + 3 = 56 \text{ (dB)} \end{aligned}$$



$$\begin{aligned}
 \text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 + 3\text{dB dual beam factor} \\
 &= 53.4 + 2 + 107 + 20\log(0.5) - 104.8 + 3 = 54.6 \text{ (dB)}
 \end{aligned}$$



Frequency Stability

Test Conditions		NR Band n260 / Middle Channel			Limit
Temperature (°C)	Voltage (Volt)	Frequency (GHz)	CW tone		Note 2. Result
			Deviation (kHz)	Deviation (ppm)	
50	Normal Voltage	38.49889409	0.90	0.02	PASS
40	Normal Voltage	38.49889299	-0.20	-0.01	
30	Normal Voltage	38.49889349	0.30	0.01	
20(Ref.)	Normal Voltage	38.49889319	0.00	0.00	
10	Normal Voltage	38.49889229	-0.90	-0.02	
0	Normal Voltage	38.49889119	-2.00	-0.05	
-10	Normal Voltage	38.49889059	-2.60	-0.07	
-20	Normal Voltage	38.49889079	-2.40	-0.06	
-30	Normal Voltage	38.49889099	-2.20	-0.06	
20	Maximum Voltage	38.49889239	-0.80	-0.02	
20	Normal Voltage	38.49889319	0.00	0.00	
20	Battery End Point	38.49889199	-1.20	-0.03	

Note:

1. Normal Voltage =3.9 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.35 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.



# NR Band n261

## Occupied Bandwidth

Mode	Module 0 AG0 NR Band n261 : 99%OBW(MHz)								
BW	50MHz			100MHz			400MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	45.6	45.06	45.26	91.2	90.40	90.64	386.24	384.96	385.12
Middle CH	45.64	45.08	45.26	90.72	90.20	90.28	385.76	383.84	384.48
Highest CH	45.64	45.08	45.30	91.00	90.08	90.60	386.72	385.28	385.92

Mode	Module 0 AG1 NR Band n261 : 99%OBW(MHz)								
BW	50MHz			100MHz			400MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	45.46	45.02	45.24	90.88	90.20	90.56	384.64	383.36	383.52
Middle CH	45.52	45.04	45.22	90.92	90.12	90.56	384.48	382.72	383.04
Highest CH	45.48	45.02	45.24	90.96	90.12	90.60	385.76	384.16	384.80

Mode	Module 1 AG0 NR Band n261 : 99%OBW(MHz)								
BW	50MHz			100MHz			400MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	45.14	45.04	45.22	90.72	90.44	90.32	385.28	384.80	385.12
Middle CH	45.28	45.08	45.24	90.68	90.28	90.32	384.64	384.00	384.32
Highest CH	45.44	45.06	45.24	91.04	90.40	90.32	386.08	385.28	386.24

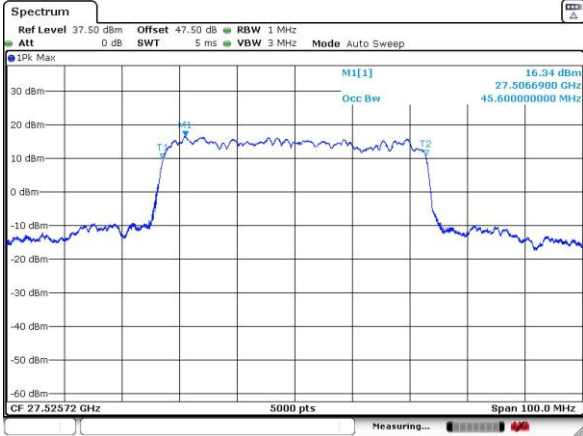
Mode	Module 1 AG1 NR Band n261 : 99%OBW(MHz)								
BW	50MHz			100MHz			400MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	45.42	45.12	45.24	90.72	90.40	90.56	385.28	384.48	384.64
Middle CH	45.50	45.14	45.26	90.68	90.36	90.52	384.80	383.52	384.00
Highest CH	45.48	45.14	45.28	90.64	90.56	90.64	387.04	385.92	385.76



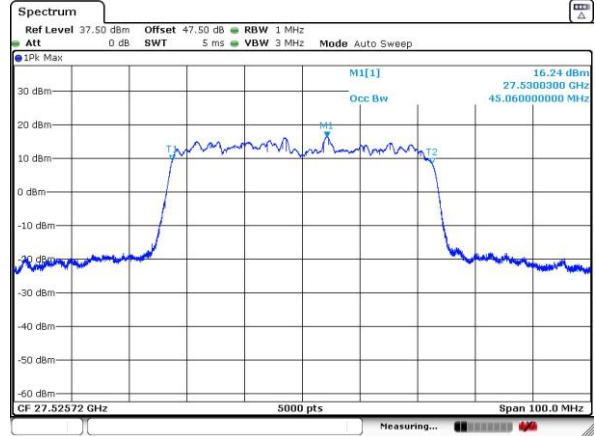
Module 0 AGO

NR Band n261

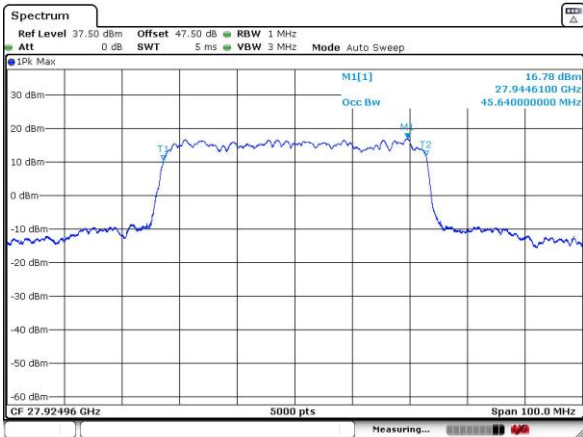
Lowest Channel / 50MHz / QPSK



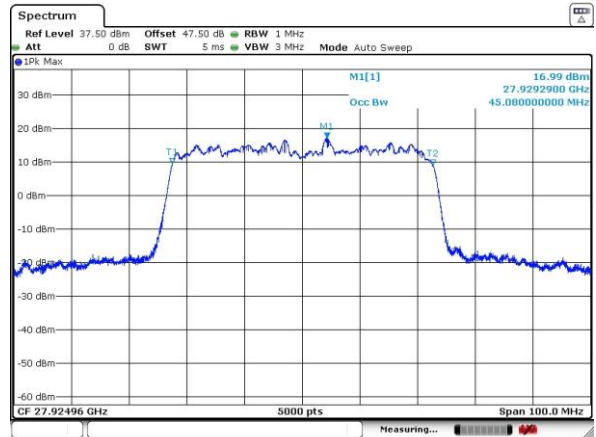
Lowest Channel / 50MHz / 16QAM



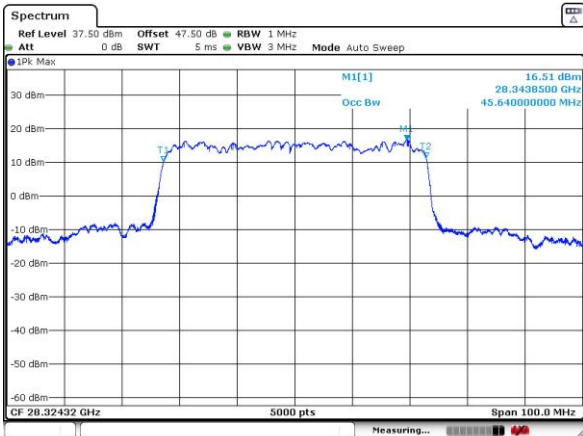
Middle Channel / 50MHz / QPSK



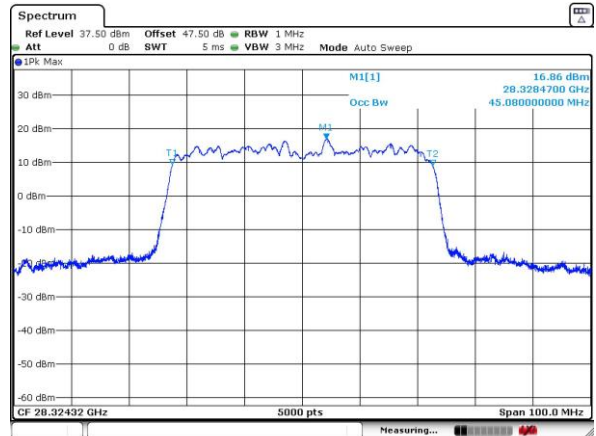
Middle Channel / 50MHz / 16QAM



Highest Channel / 50MHz / QPSK



Highest Channel / 50MHz / 16QAM

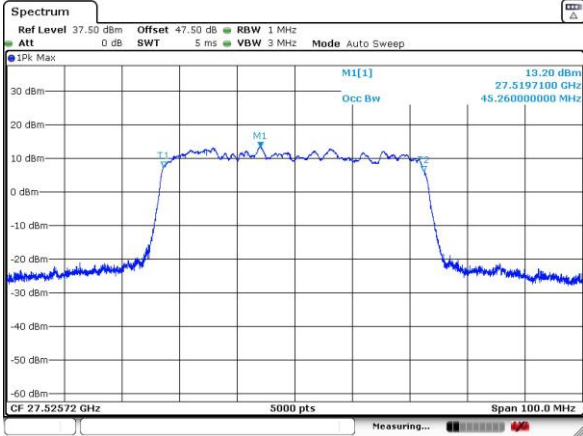




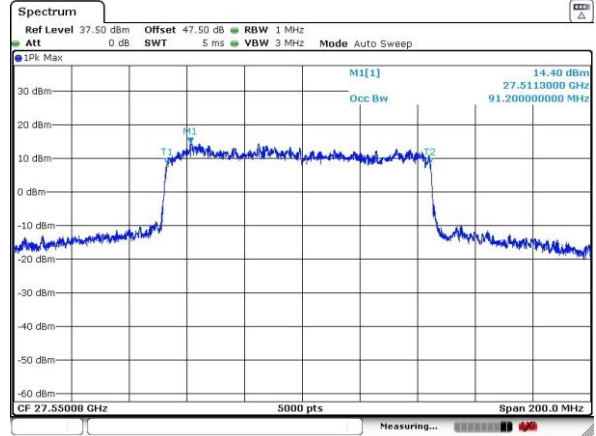
Module 0 AGO

NR Band n261

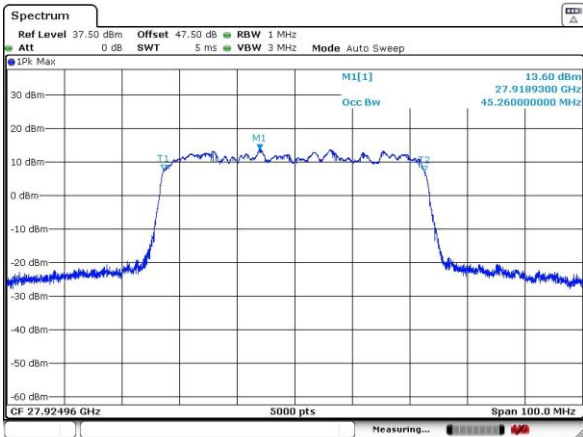
Lowest Channel / 50MHz / 64QAM



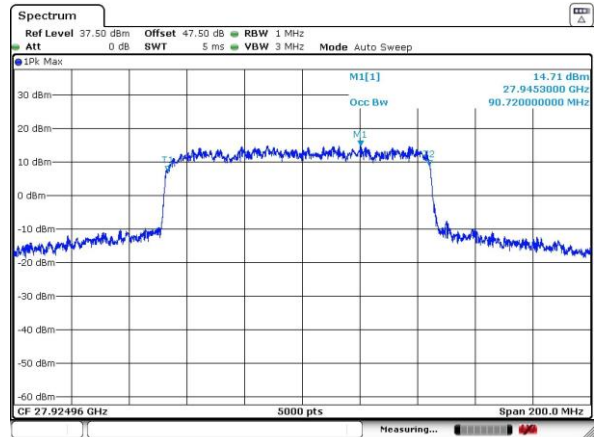
Lowest Channel / 100MHz / QPSK



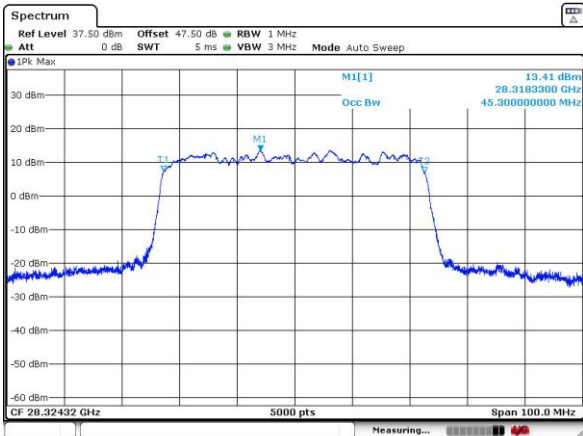
Middle Channel / 50MHz / 64QAM



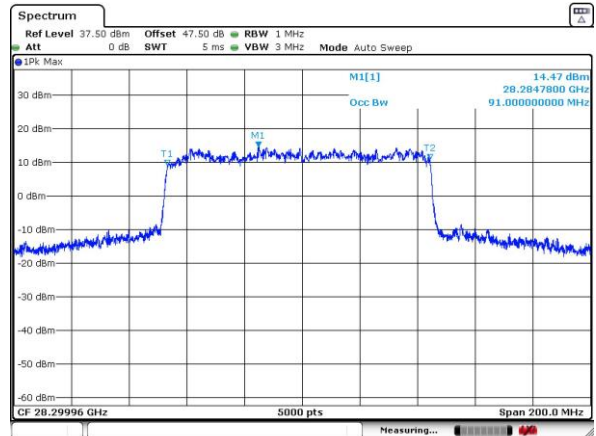
Middle Channel / 100MHz / QPSK



Highest Channel / 50MHz / 64QAM



Highest Channel / 100MHz / QPSK



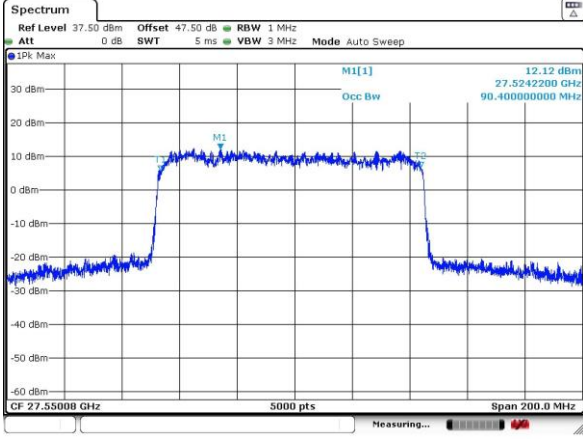




Module 0 AGO

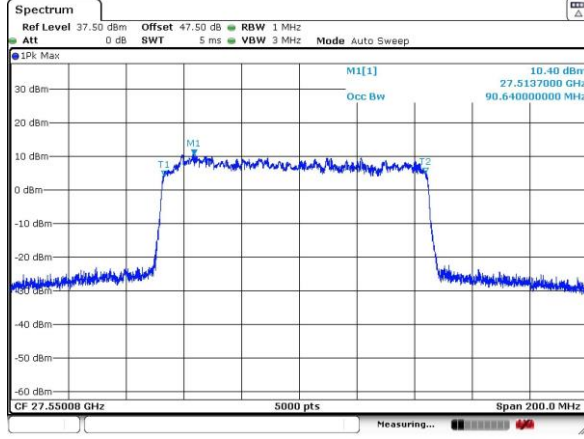
NR Band n261

Lowest Channel / 100MHz / 16QAM



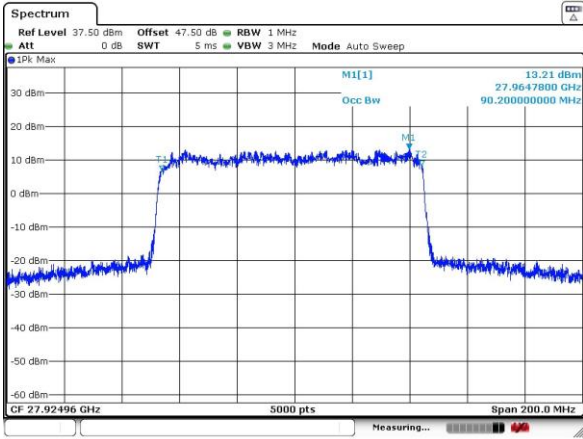
Date: 8.FEB.2020 23:49:43

Lowest Channel / 100MHz / 64QAM



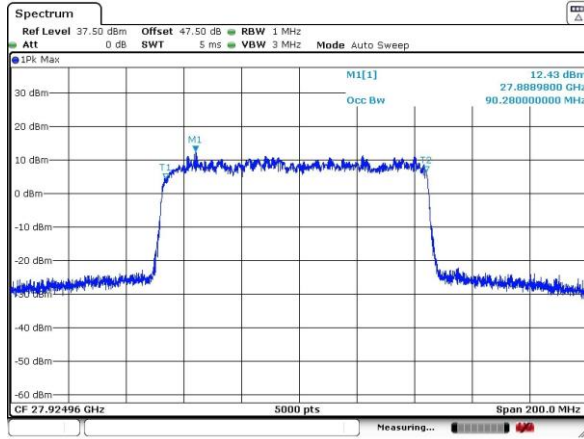
Date: 8.FEB.2020 23:50:05

Middle Channel / 100MHz / 16QAM



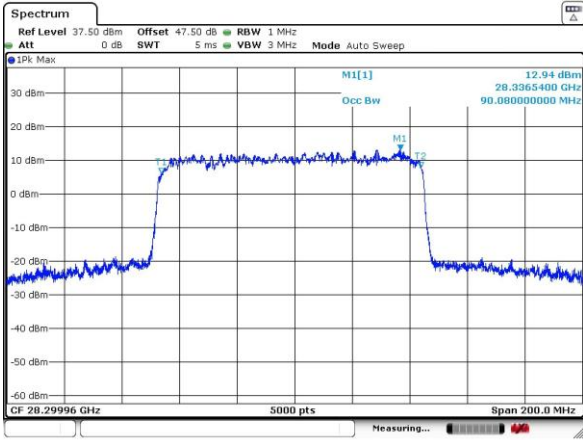
Date: 8.FEB.2020 23:26:53

Middle Channel / 100MHz / 64QAM



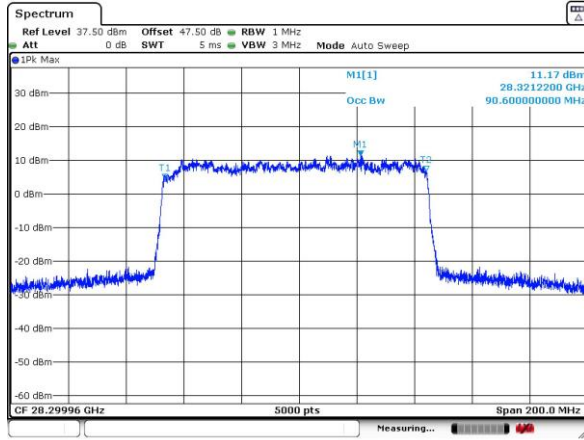
Date: 8.FEB.2020 23:39:13

Highest Channel / 100MHz / 16QAM



Date: 9.FEB.2020 00:08:32

Highest Channel / 100MHz / 64QAM



Date: 9.FEB.2020 00:08:57

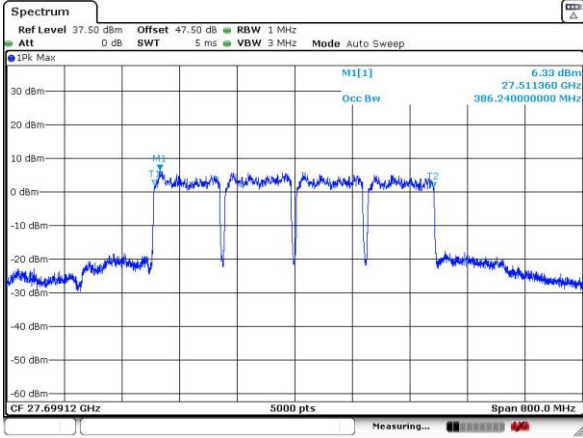




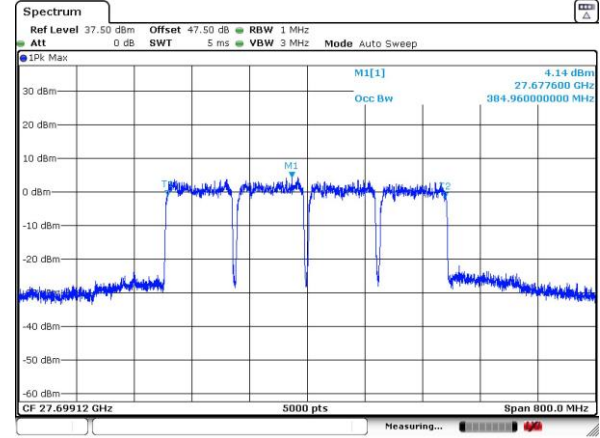
Module 0 AGO

NR Band n261

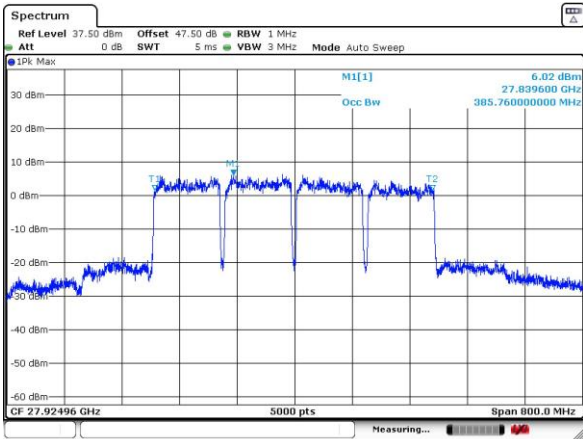
Lowest Channel / 400MHz / QPSK



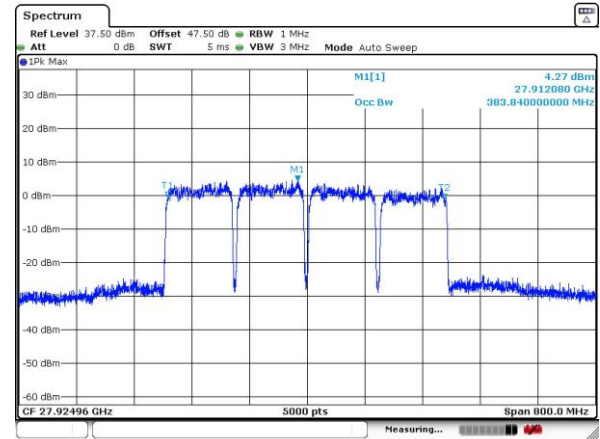
Lowest Channel / 400MHz / 16QAM



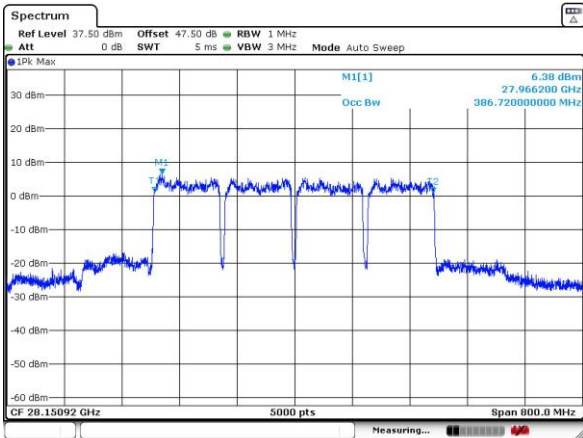
Middle Channel / 400MHz / QPSK



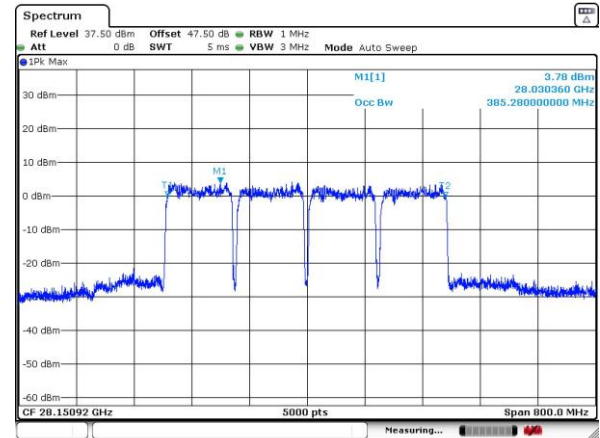
Middle Channel / 400MHz / 16QAM



Highest Channel / 400MHz / QPSK



Highest Channel / 400MHz / 16QAM

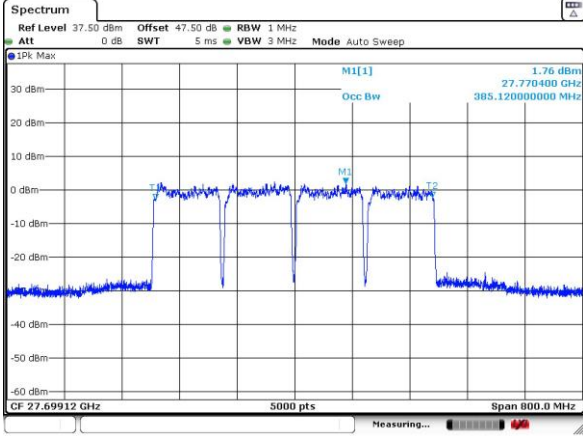




Module 0 AGO

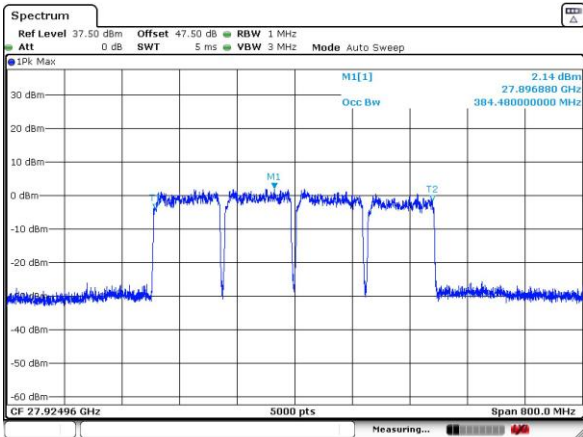
NR Band n261

Lowest Channel / 400MHz / 64QAM



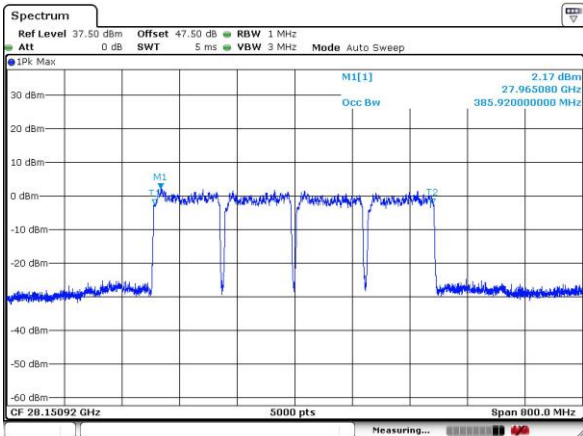
intentionally blank

Middle Channel / 400MHz / 64QAM



intentionally blank

Highest Channel / 400MHz / 64QAM



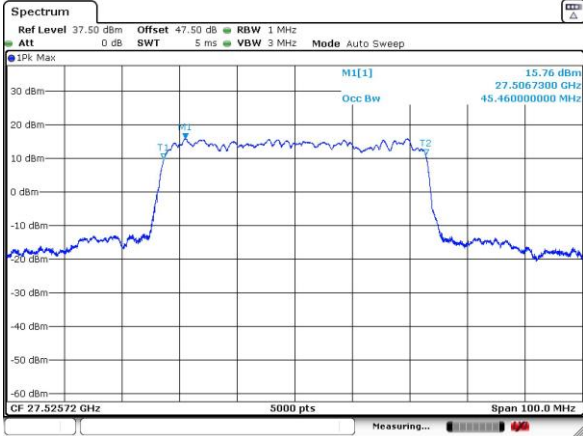
intentionally blank



Module 0 AG1

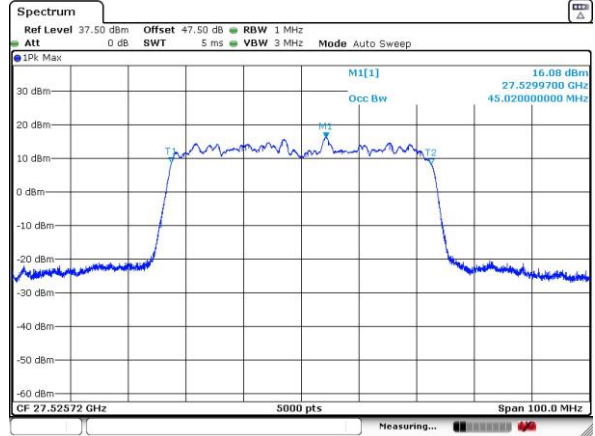
NR Band n261

Lowest Channel / 50MHz / QPSK



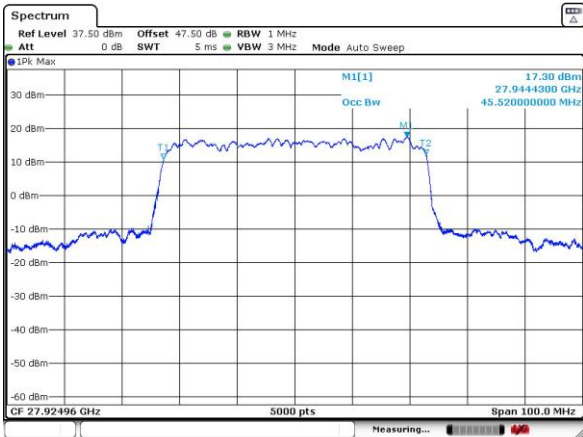
Date: 9.FEB.2020 03:27:39

Lowest Channel / 50MHz / 16QAM



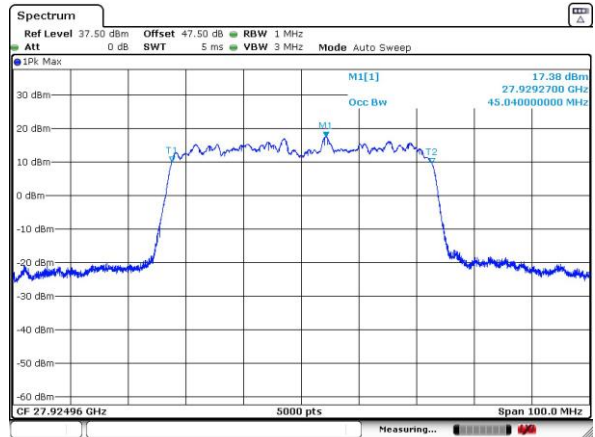
Date: 9.FEB.2020 03:28:08

Middle Channel / 50MHz / QPSK



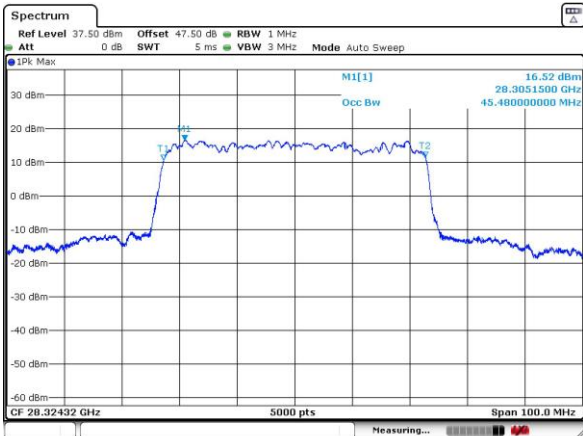
Date: 9.FEB.2020 02:41:54

Middle Channel / 50MHz / 16QAM



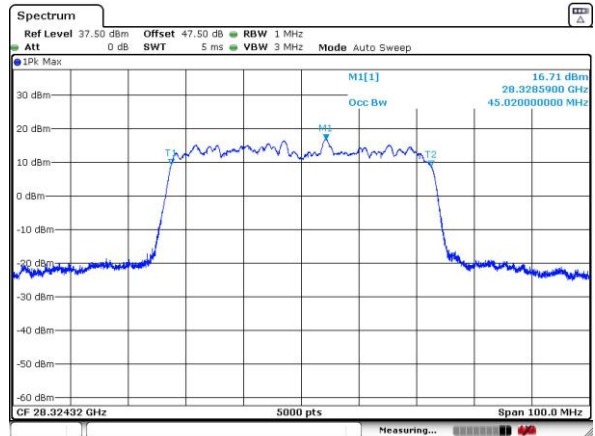
Date: 9.FEB.2020 02:42:27

Highest Channel / 50MHz / QPSK



Date: 9.FEB.2020 02:30:57

Highest Channel / 50MHz / 16QAM



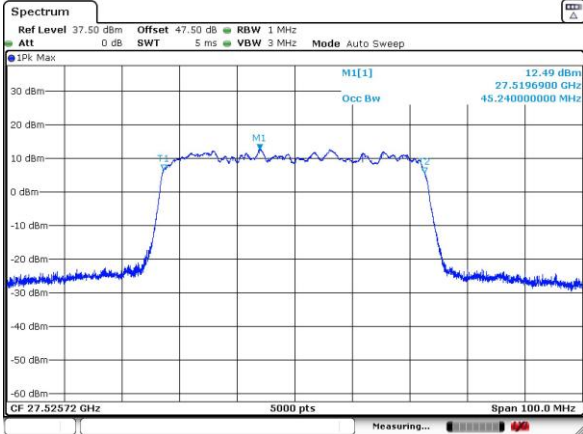
Date: 9.FEB.2020 02:31:25



Module 0 AG1

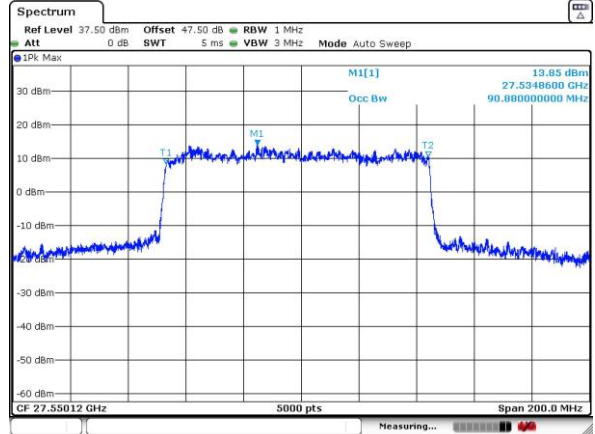
NR Band n261

Lowest Channel / 50MHz / 64QAM



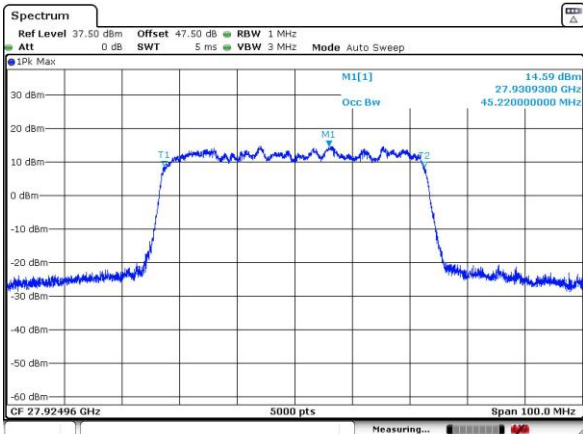
Date: 9.FEB.2020 03:28:29

Lowest Channel / 100MHz / QPSK



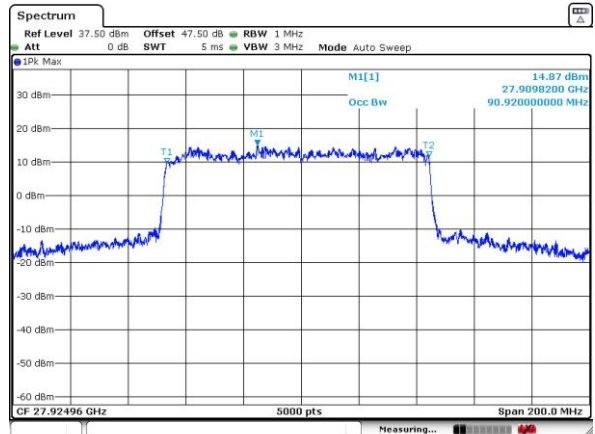
Date: 9.FEB.2020 01:52:48

Middle Channel / 50MHz / 64QAM



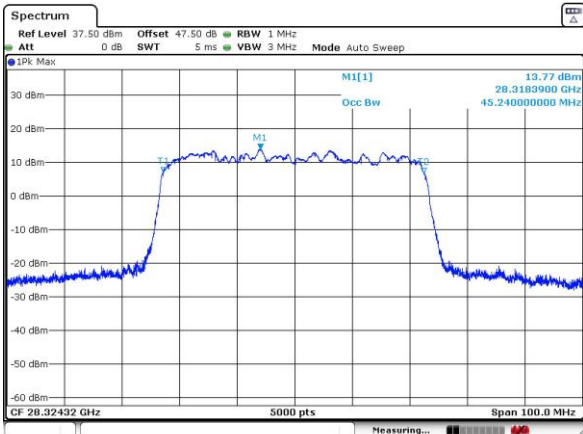
Date: 9.FEB.2020 02:42:49

Middle Channel / 100MHz / QPSK



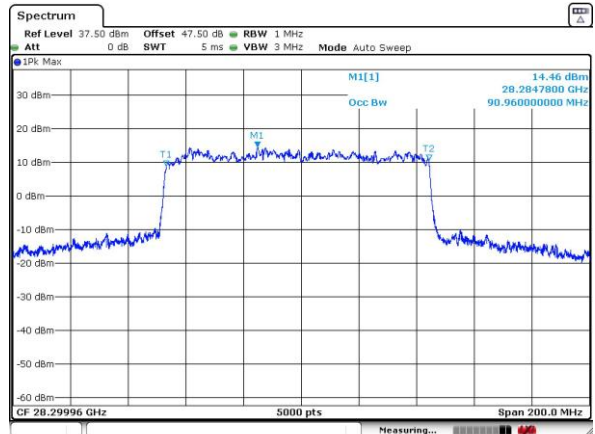
Date: 9.FEB.2020 01:44:30

Highest Channel / 50MHz / 64QAM



Date: 9.FEB.2020 02:31:48

Highest Channel / 100MHz / QPSK



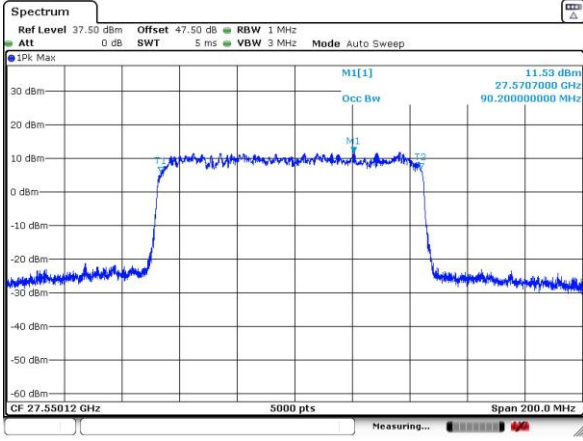
Date: 9.FEB.2020 02:19:06



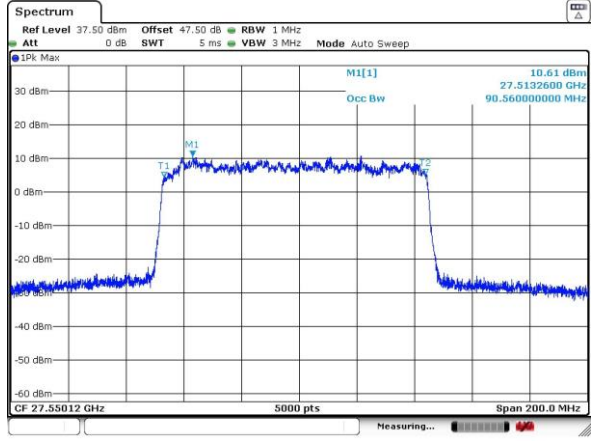
Module 0 AG1

NR Band n261

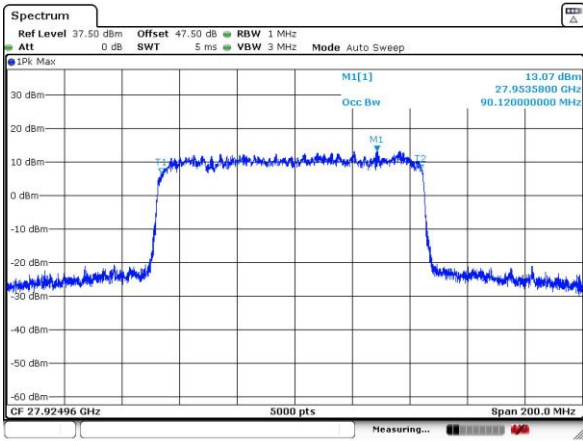
Lowest Channel / 100MHz / 16QAM



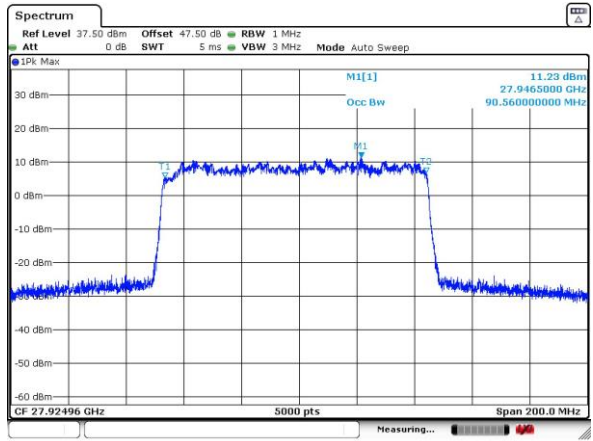
Lowest Channel / 100MHz / 64QAM



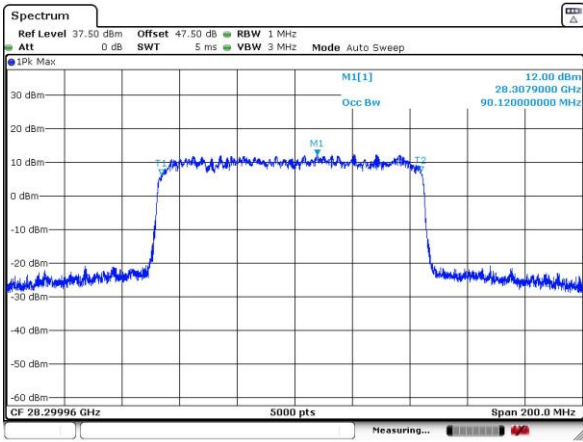
Middle Channel / 100MHz / 16QAM



Middle Channel / 100MHz / 64QAM



Highest Channel / 100MHz / 16QAM



Highest Channel / 100MHz / 64QAM

