

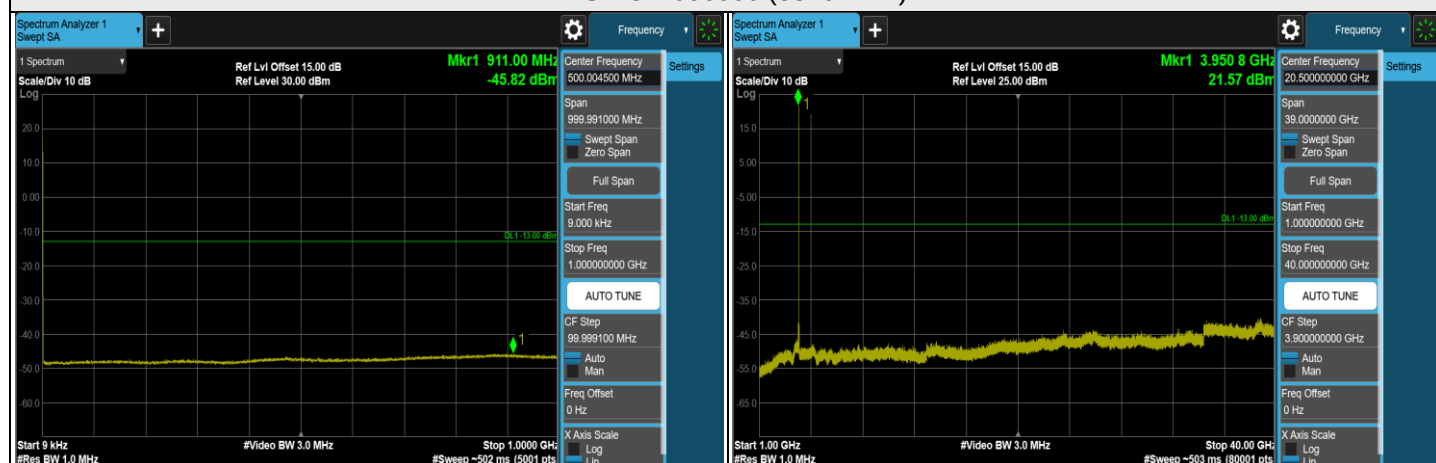
NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz), Channel Bandwidth: 30 MHz



BPSK CH 647668 (3715.02 MHz)



BPSK CH 656000 (3840 MHz)



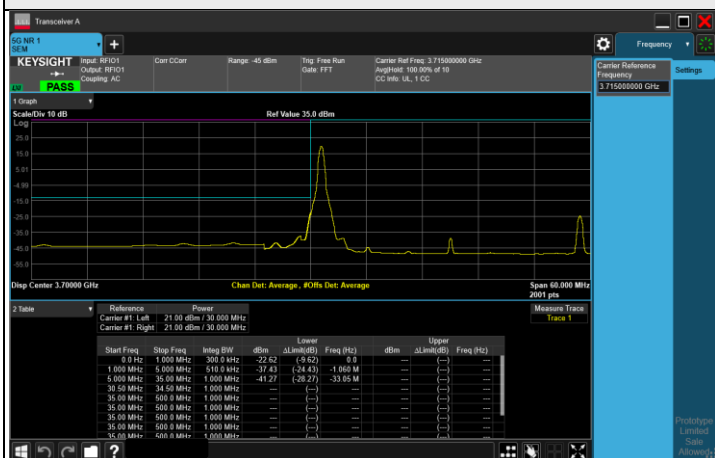
BPSK CH 664332 (3964.98 MHz)

Note: The signal at 9 kHz is IF signal from spectrum analyzer.

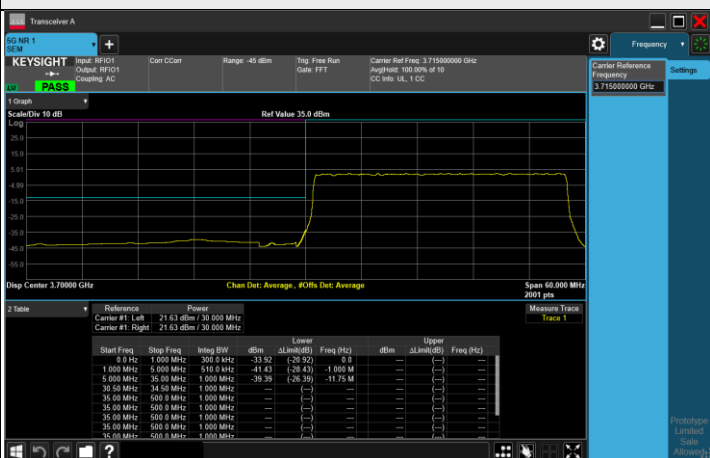
NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz), Channel Bandwidth: 30 MHz

Channel 647668(3715.02 MHz)

1 RB

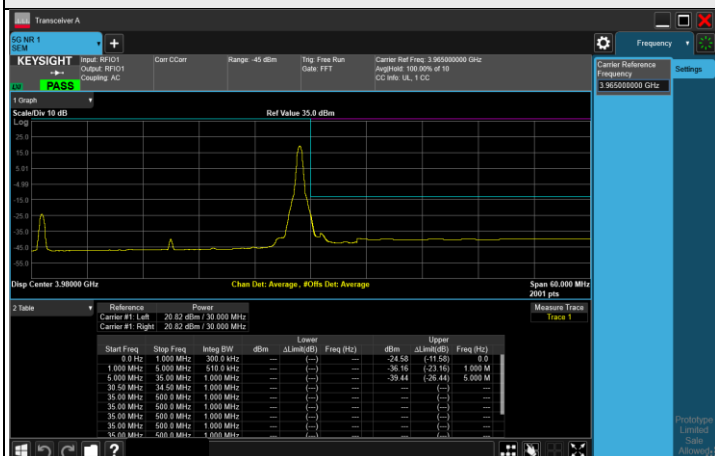


FULL RB

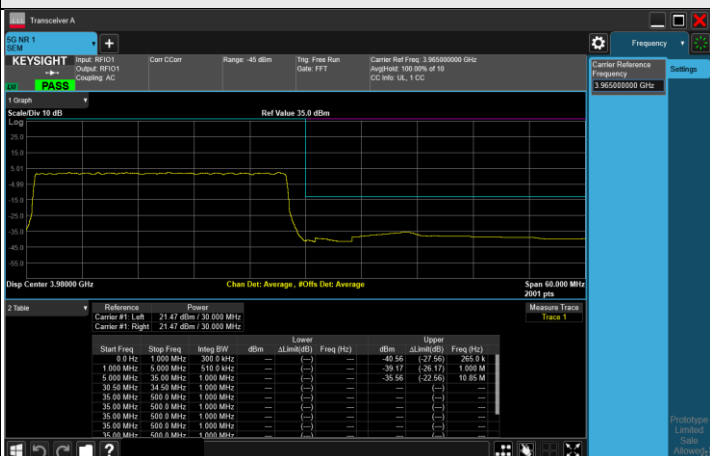


Channel 664332(3964.98 MHz)

1 RB



FULL RB



NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz), Channel Bandwidth: 40 MHz



BPSK CH 648000 (3720 MHz)



BPSK CH 656000 (3840 MHz)



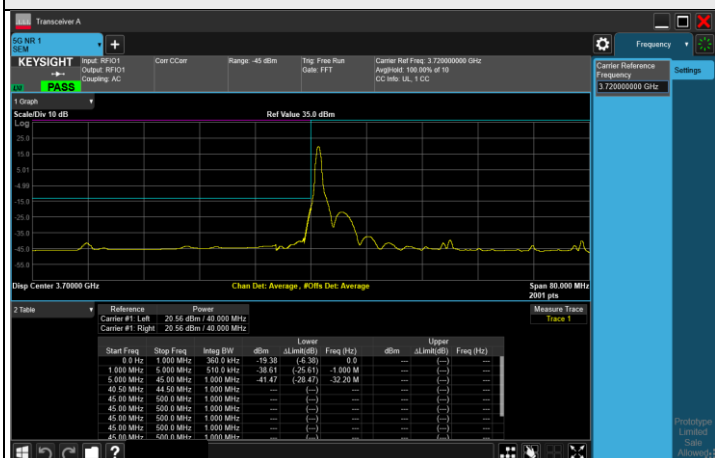
BPSK CH 664000 (3960 MHz)

Note: The signal at 9 kHz is IF signal from spectrum analyzer.

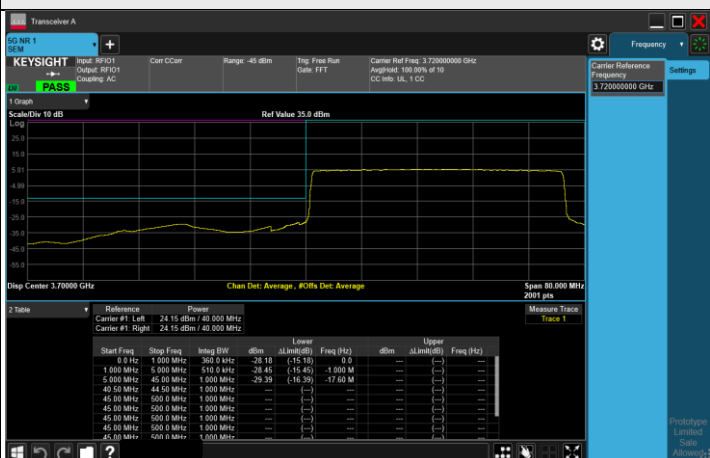
NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz), Channel Bandwidth: 40 MHz

Channel 648000(3720 MHz)

1 RB

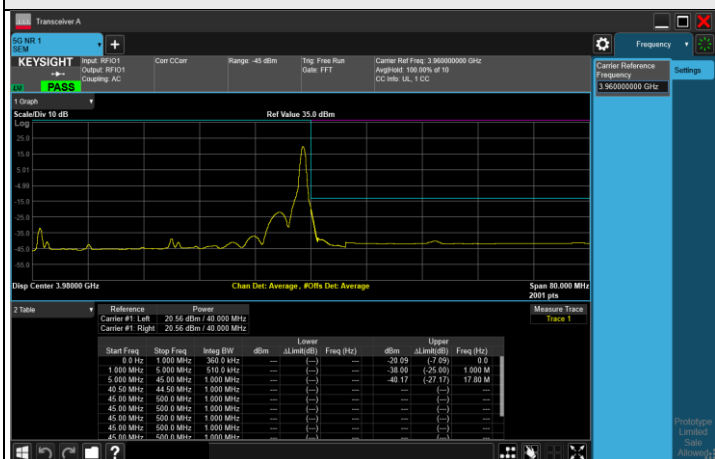


FULL RB

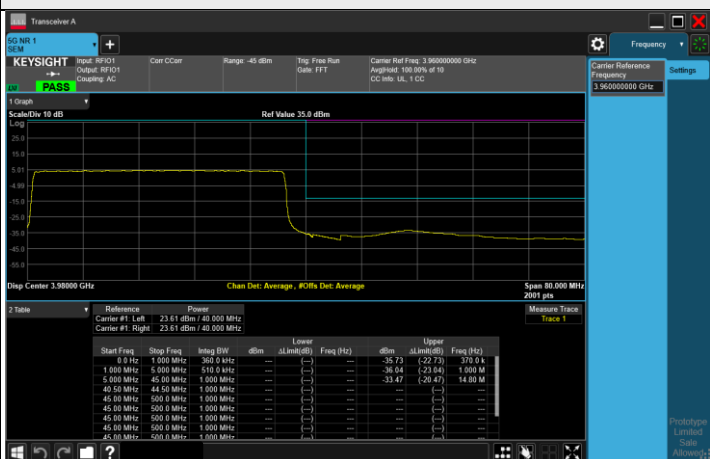


Channel 664000(3960 MHz)

1 RB



FULL RB



NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz), Channel Bandwidth: 50 MHz



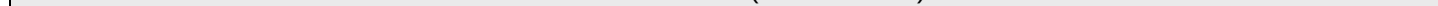
BPSK CH 648334 (3725.01 MHz)



BPSK CH 656000 (3840 MHz)



BPSK CH 663666 (3954.99 MHz)

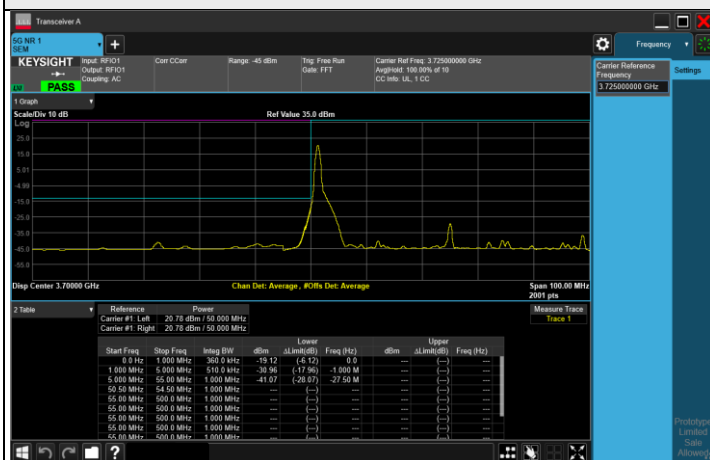


Note: The signal at 9 kHz is IF signal from spectrum analyzer.

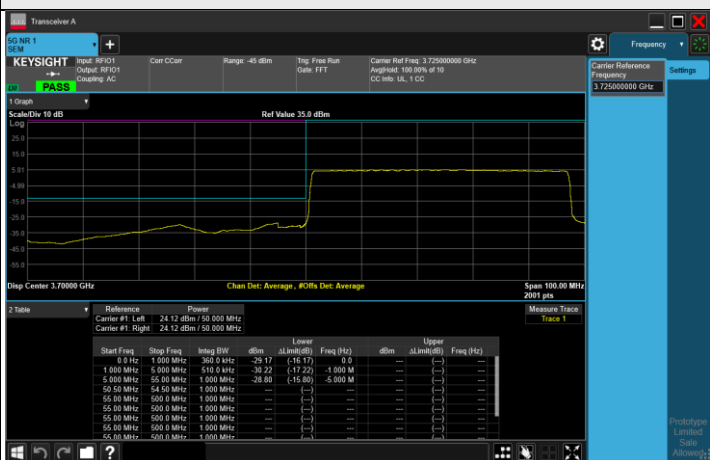
NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz), Channel Bandwidth: 50 MHz

Channel 648334(3725.01 MHz)

1 RB

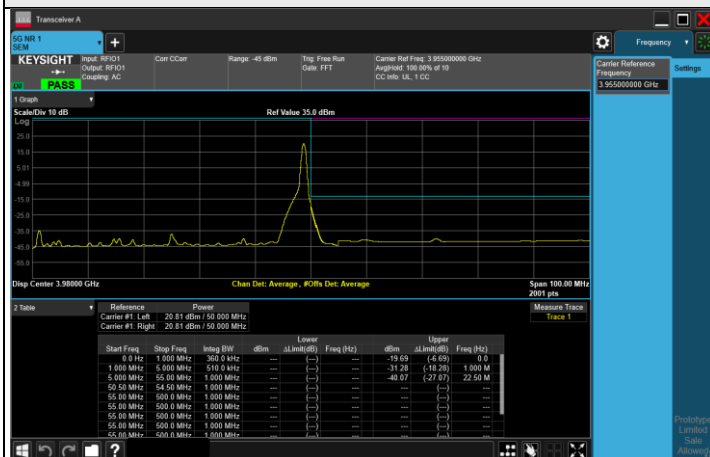


FULL RB

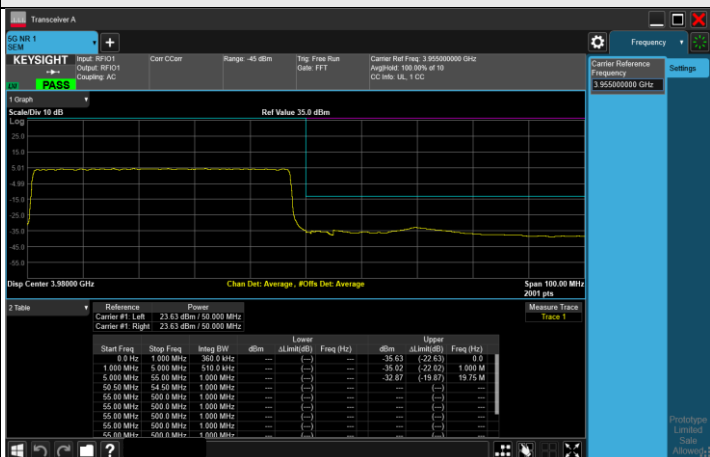


Channel 663666(3954.99 MHz)

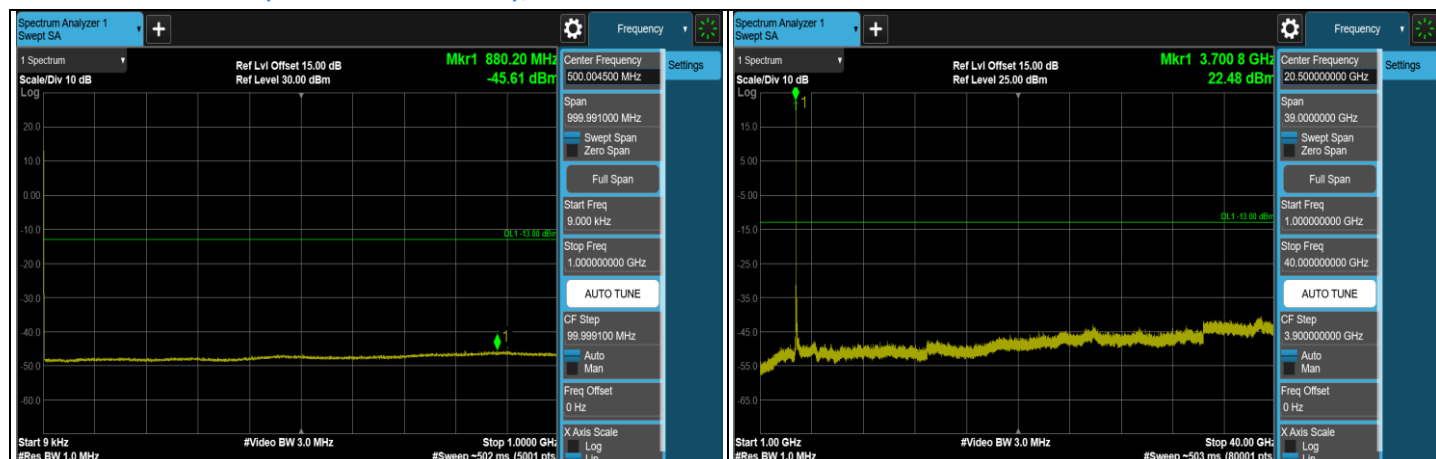
1 RB



FULL RB



NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz), Channel Bandwidth: 60 MHz



BPSK CH 648668 (3730.02 MHz)



BPSK CH 656000 (3840 MHz)



BPSK CH 663332 (3949.98 MHz)

Note: The signal at 9 kHz is IF signal from spectrum analyzer.

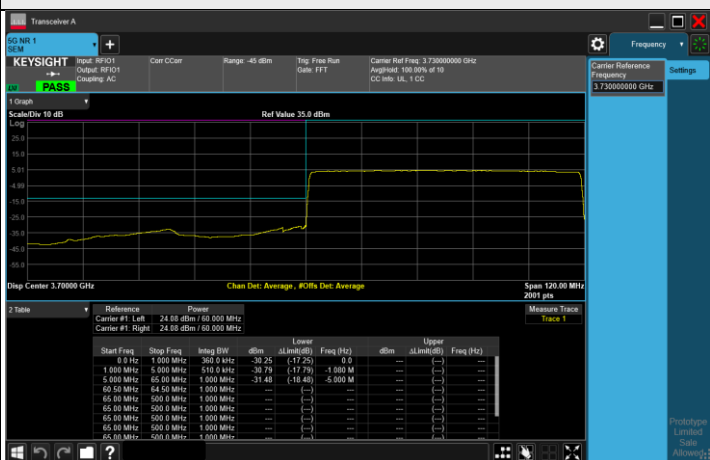
NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz), Channel Bandwidth: 60 MHz

Channel 648668(3730.02 MHz)

1 RB

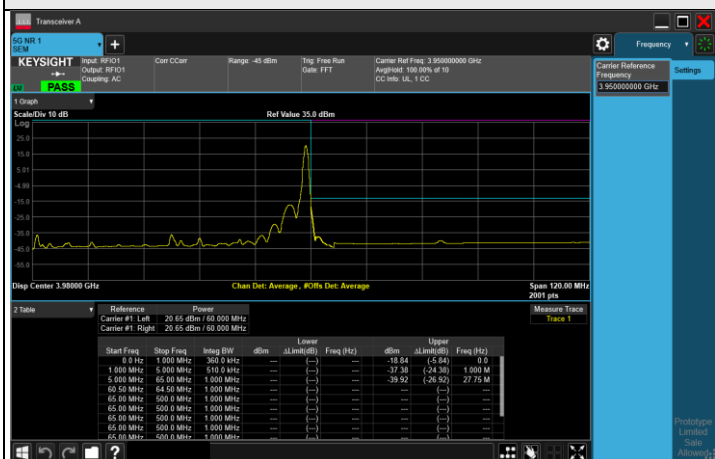


FULL RB

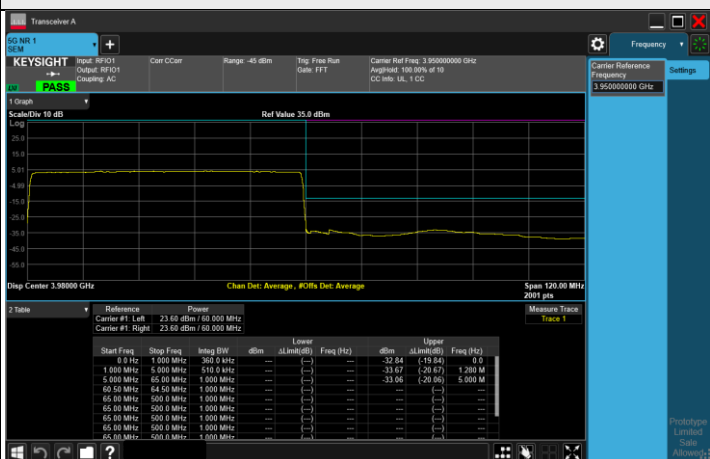


Channel 663332(3949.98 MHz)

1 RB



FULL RB



NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz), Channel Bandwidth: 70 MHz



BPSK CH 649000 (3735 MHz)



BPSK CH 656000 (3840 MHz)



BPSK CH 663000 (3945 MHz)

Note: The signal at 9 kHz is IF signal from spectrum analyzer.

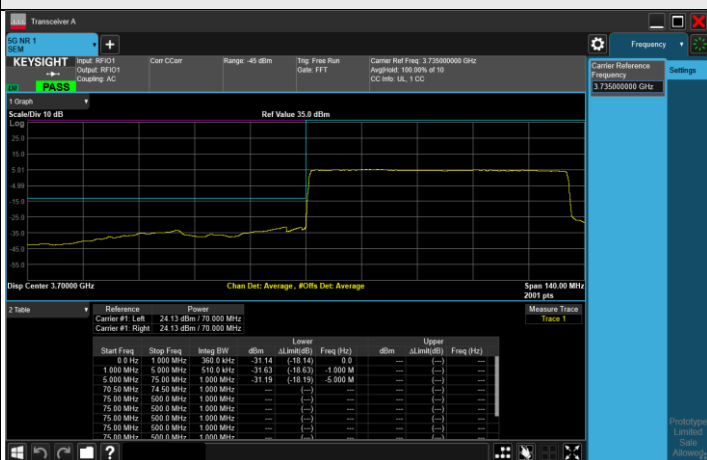
NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz), Channel Bandwidth: 70 MHz

Channel 649000(3735 MHz)

1 RB

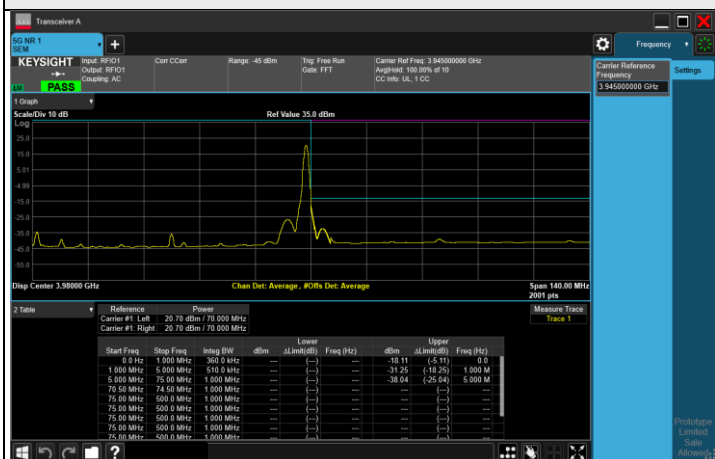


FULL RB

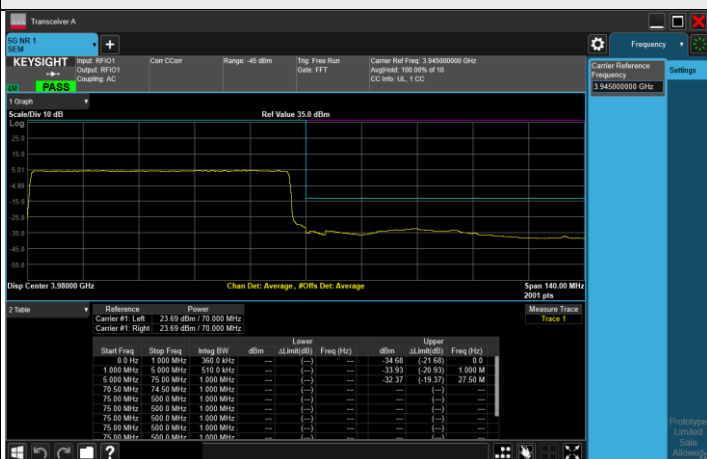


Channel 663000(3945 MHz)

1 RB



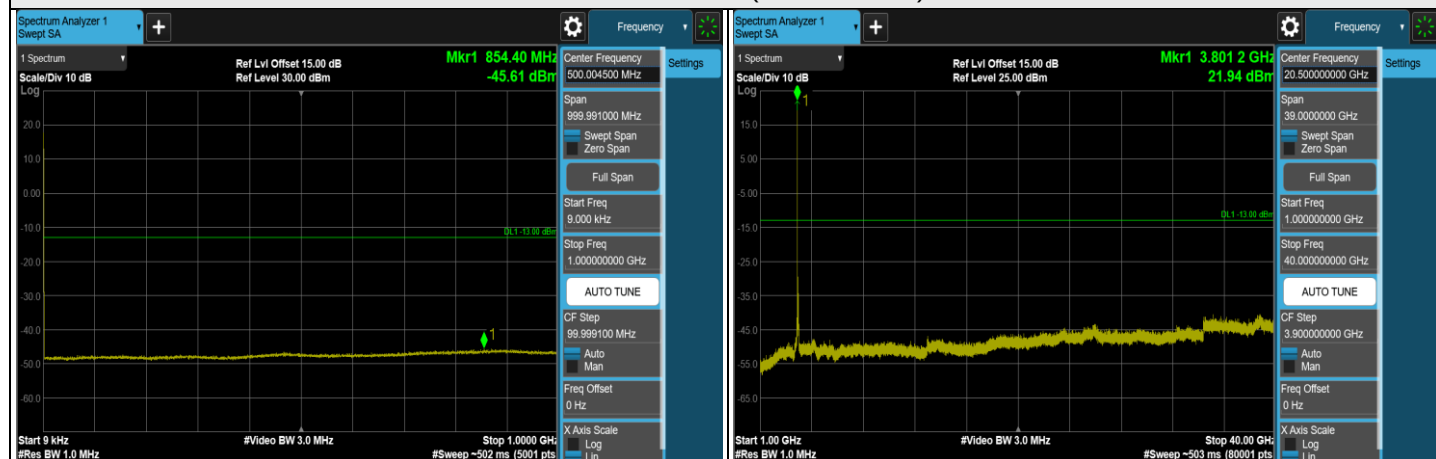
FULL RB



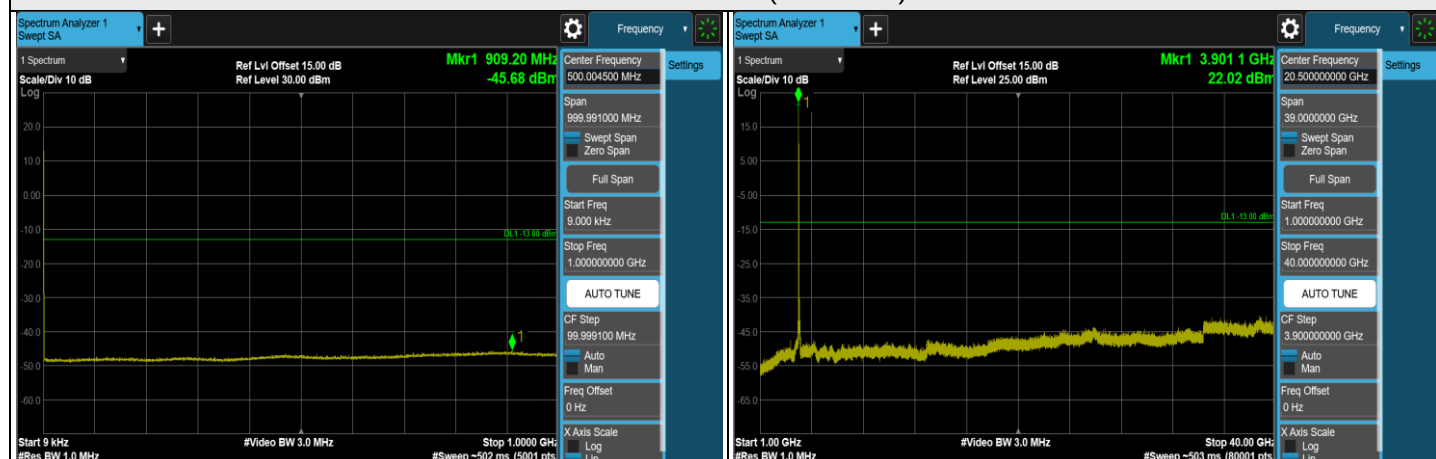
NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz), Channel Bandwidth: 80 MHz



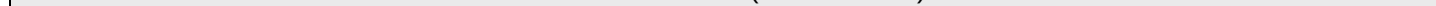
BPSK CH 649334 (3740.01 MHz)



BPSK CH 656000 (3840 MHz)



BPSK CH 662666 (3939.99 MHz)

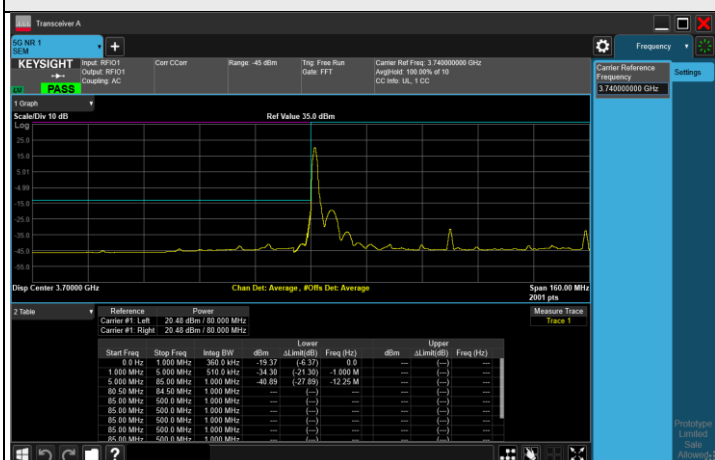


Note: The signal at 9 kHz is IF signal from spectrum analyzer.

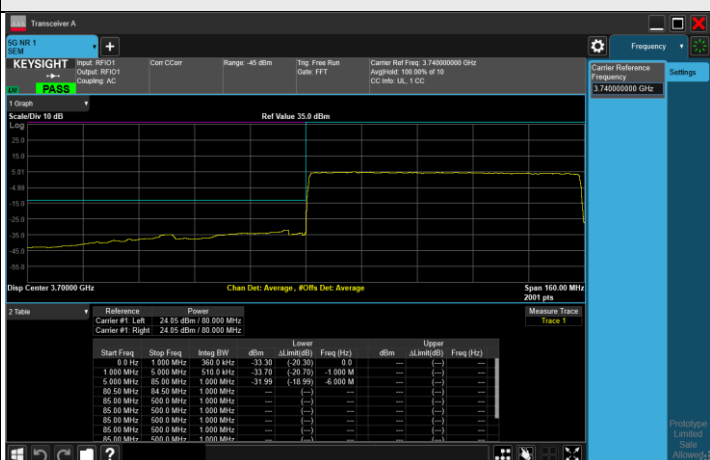
NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz), Channel Bandwidth: 80 MHz

Channel 649334(3740.01 MHz)

1 RB

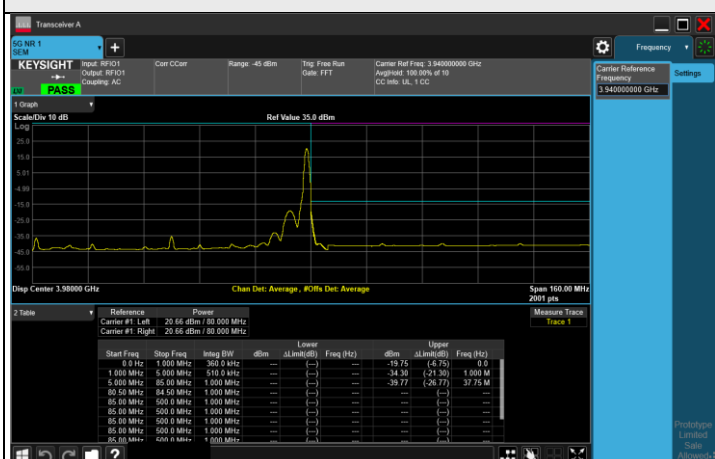


FULL RB

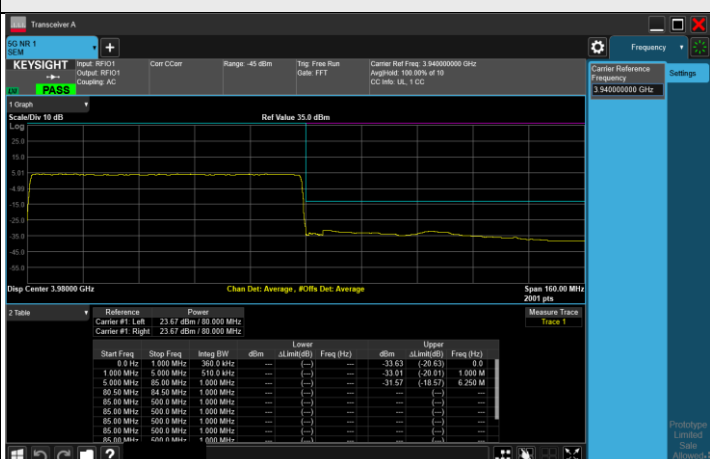


Channel 662666(3939.99 MHz)

1 RB



FULL RB



NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz), Channel Bandwidth: 90 MHz



BPSK CH 649668 (3745.02 MHz)



BPSK CH 656000 (3840 MHz)



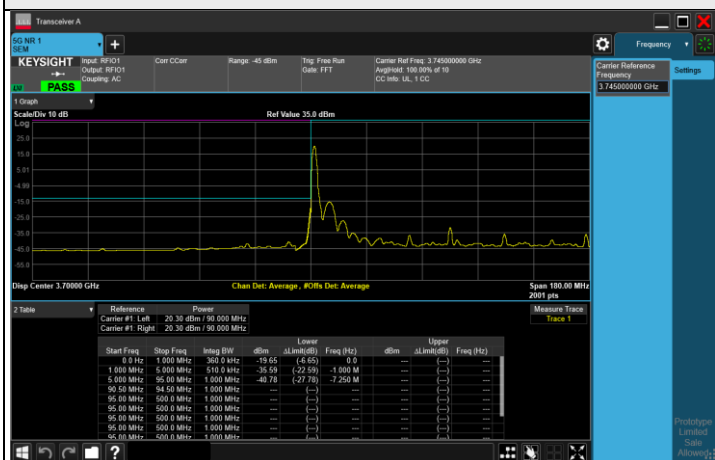
BPSK CH 662332 (3934.98 MHz)

Note: The signal at 9 kHz is IF signal from spectrum analyzer.

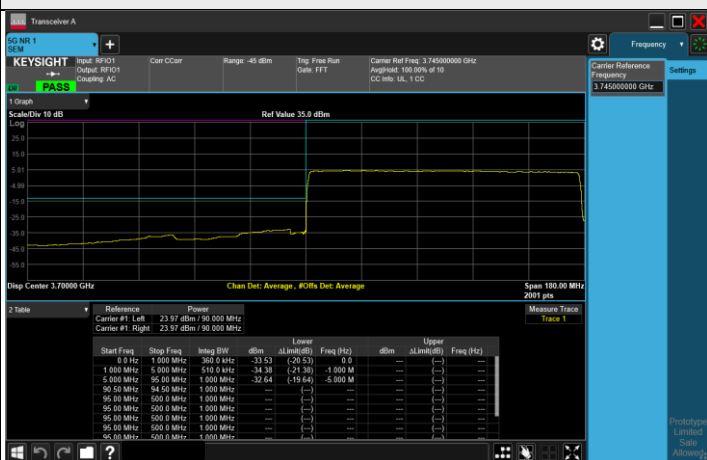
NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz), Channel Bandwidth: 90 MHz

Channel 649668(3745.02 MHz)

1 RB

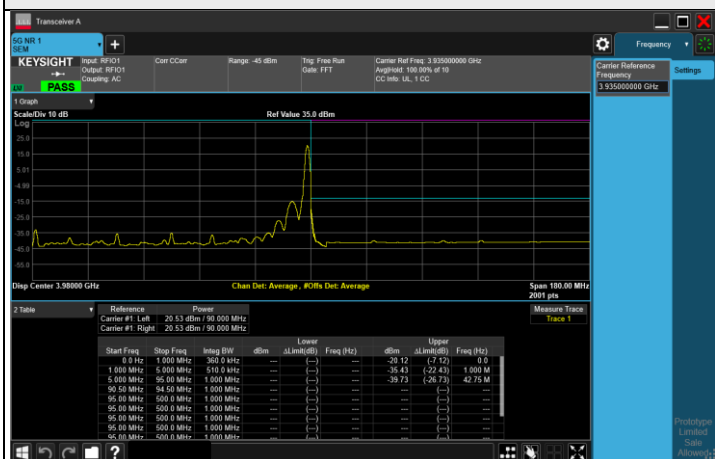


FULL RB

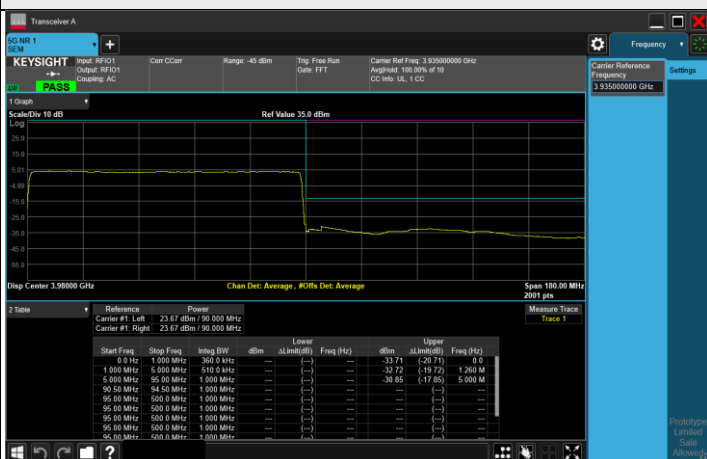


Channel 662332(3934.98 MHz)

1 RB



FULL RB



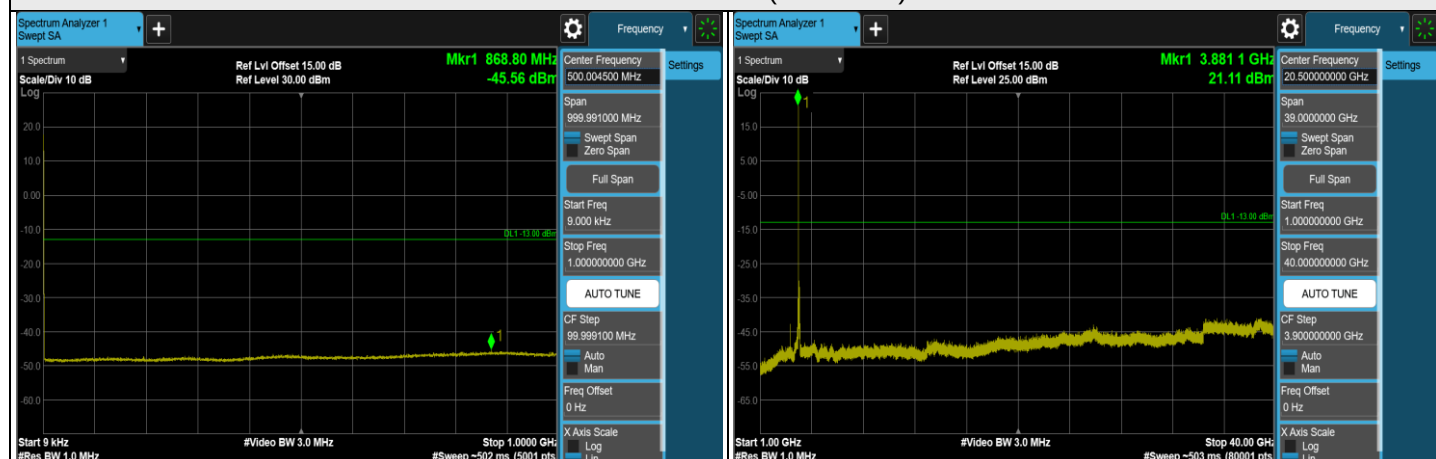
NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz), Channel Bandwidth: 100 MHz



BPSK CH 650000 (3750 MHz)



BPSK CH 656000 (3840 MHz)



BPSK CH 662000 (3930 MHz)

Note: The signal at 9 kHz is IF signal from spectrum analyzer.

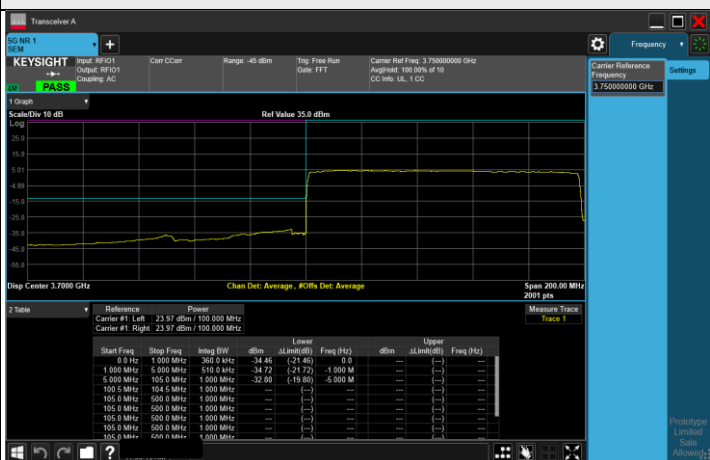
NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz), Channel Bandwidth: 100 MHz

Channel 650000(3750 MHz)

1 RB

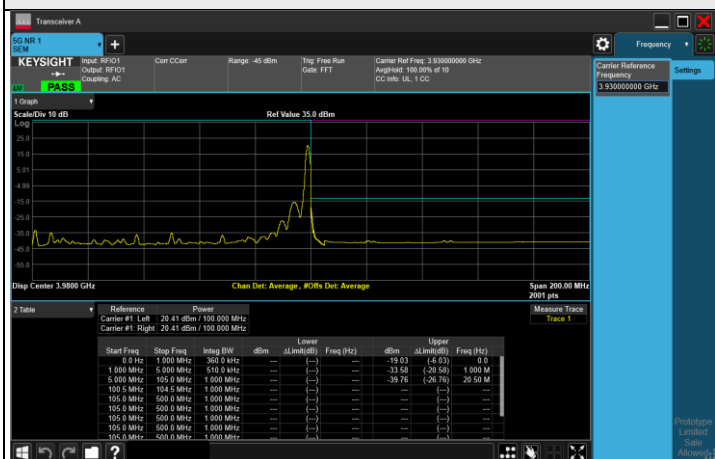


FULL RB

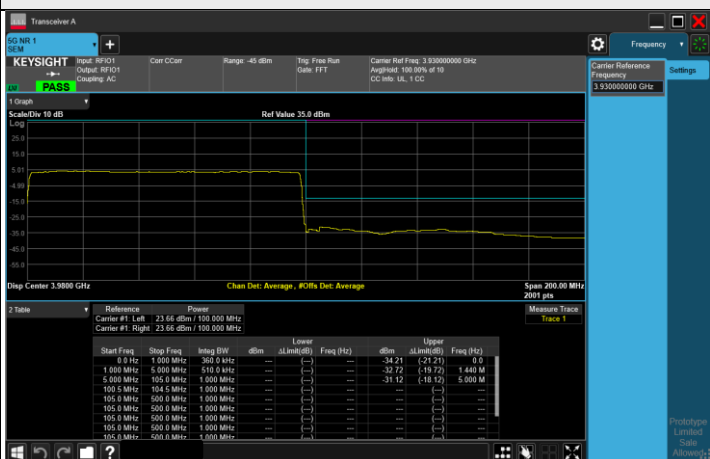


Channel 662000(3930 MHz)

1 RB



FULL RB



7.6 Radiated Spurious Emissions below 1GHz

With shielding case

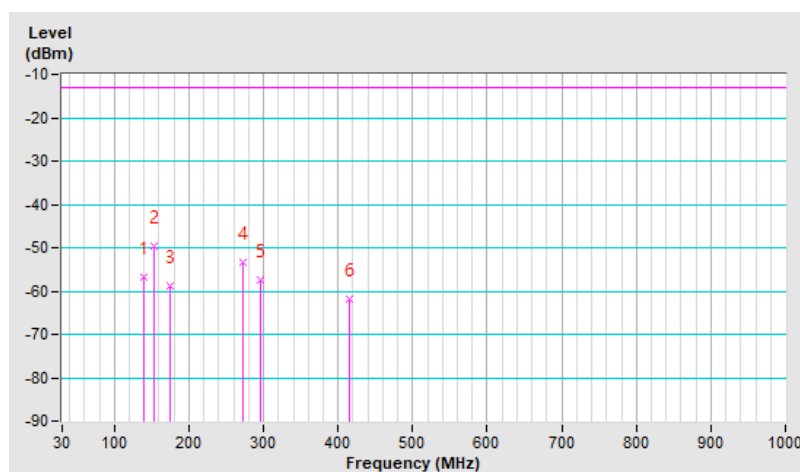
7.6.1 NR n2

RF Mode	NR n2 Channel Bandwidth: 20MHz	Channel	CH 376000 : 1880 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	4.7 Vdc	Environmental Conditions	21 °C, 75% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	139.61	-56.69	-13.00	-43.69	1.99 H	359	51.76	-108.45
2	154.16	-49.71	-13.00	-36.71	1.49 H	312	58.01	-107.72
3	174.53	-58.90	-13.00	-45.90	1.99 H	153	49.94	-108.84
4	271.53	-53.25	-13.00	-40.25	1.49 H	19	55.10	-108.35
5	295.78	-57.43	-13.00	-44.43	1.00 H	18	50.12	-107.55
6	416.06	-61.76	-13.00	-48.76	1.00 H	218	42.70	-104.46

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

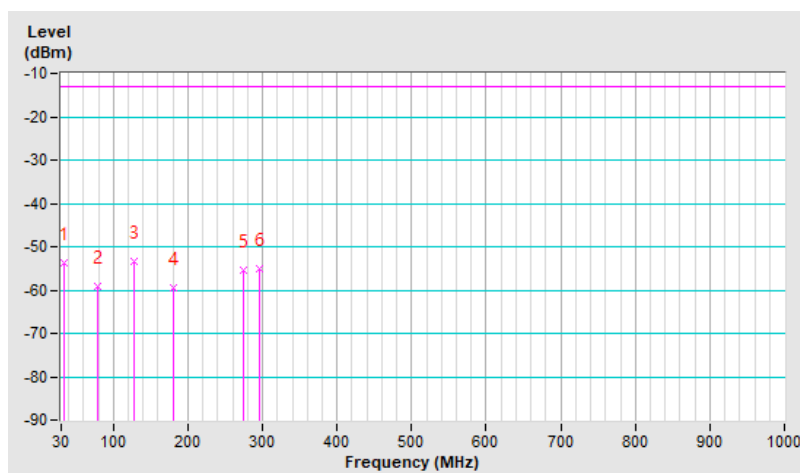


RF Mode	NR n2 Channel Bandwidth: 20MHz	Channel	CH 376000 : 1880 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	4.7 Vdc	Environmental Conditions	21 °C, 75% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	33.88	-53.57	-13.00	-40.57	1.51 V	311	55.82	-109.39
2	78.50	-59.21	-13.00	-46.21	1.51 V	103	53.67	-112.88
3	127.00	-53.31	-13.00	-40.31	1.01 V	169	56.41	-109.72
4	180.35	-59.57	-13.00	-46.57	1.01 V	125	50.10	-109.67
5	274.44	-55.47	-13.00	-42.47	1.01 V	75	52.68	-108.15
6	296.75	-55.19	-13.00	-42.19	1.01 V	244	52.33	-107.52

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



7.6.2 NR n5

RF Mode	NR n5 Channel Bandwidth: 20MHz	Channel	CH 167300 : 836.5 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	4.7 Vdc	Environmental Conditions	21 °C, 75% RH
Tested By	Rex Wang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	127.00	-58.34	-13.00	-45.34	1.01 H	2	53.53	-111.87
2	156.10	-52.13	-13.00	-39.13	2.00 H	171	57.91	-110.04
3	181.32	-61.56	-13.00	-48.56	1.51 H	280	50.39	-111.95
4	270.56	-56.02	-13.00	-43.02	1.01 H	2	54.55	-110.57
5	296.75	-59.79	-13.00	-46.79	1.01 H	6	49.88	-109.67
6	427.70	-63.50	-13.00	-50.50	1.01 H	142	42.60	-106.10

Remarks:

- ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
+ 20log(D) – 104.8 – 2.15
- Margin value = ERP – Limit value
- The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
- The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

