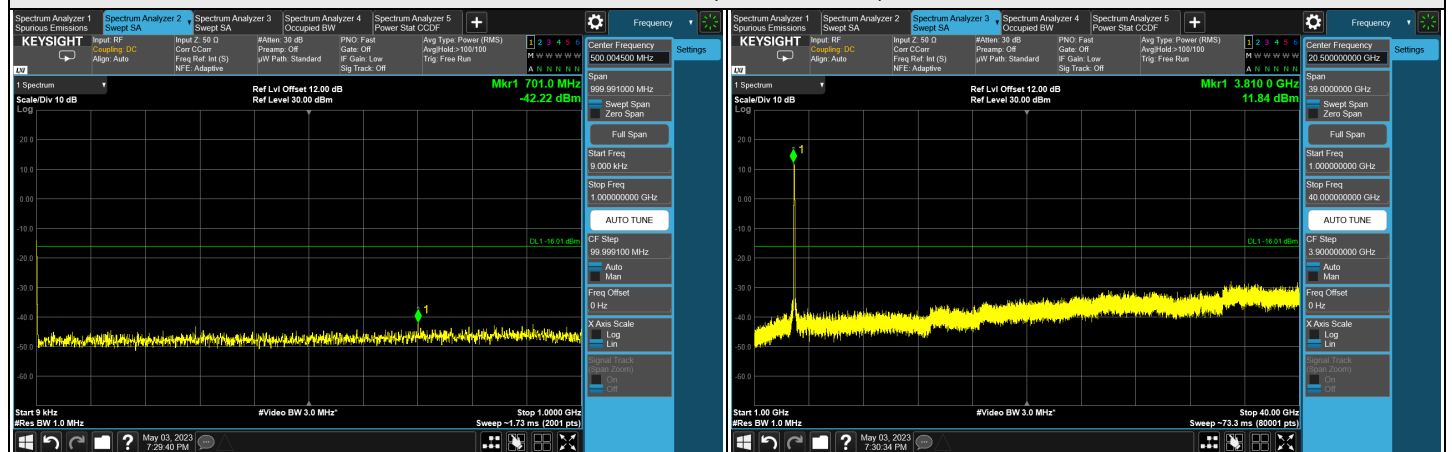


NR n77 (3700-3980 MHz) SCS 30 kHz, Channel Bandwidth: 80 MHz

Chain 0



CH 649334 (3740.01 MHz)



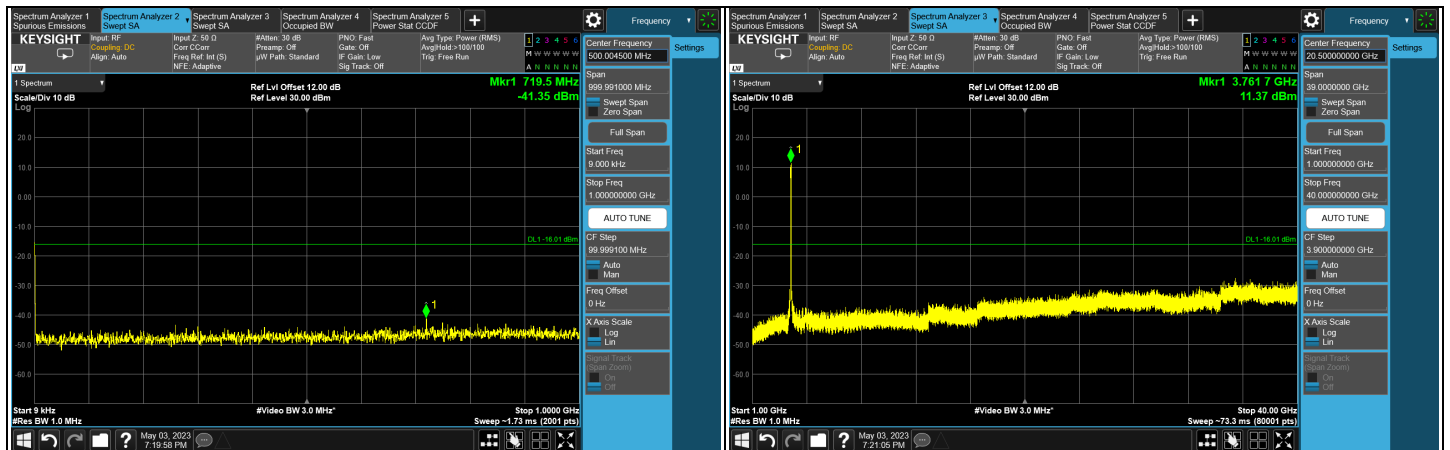
CH 656000 (3840.00 MHz)



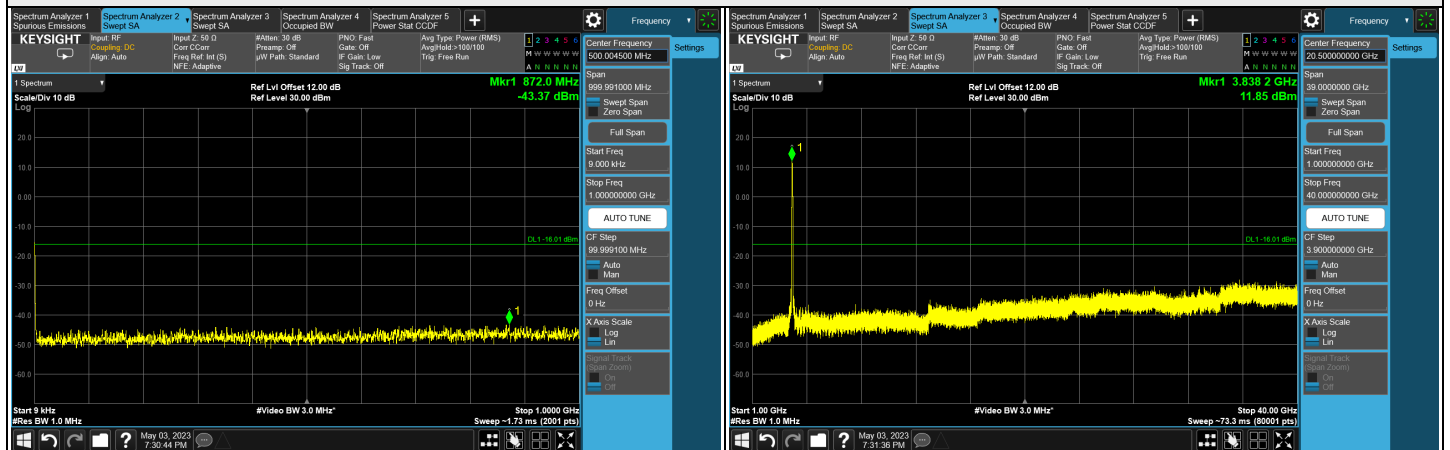
CH 662666 (3939.99 MHz)

*The 9kHz signal over the limit is from Spectrum.

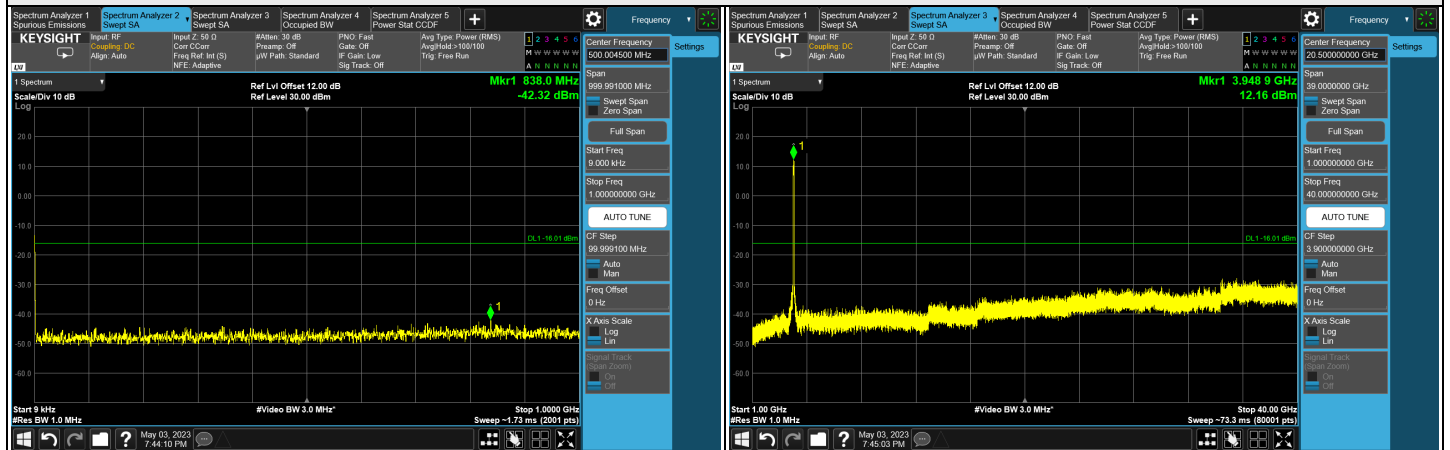
Chain 1



CH 649334 (3740.01 MHz)



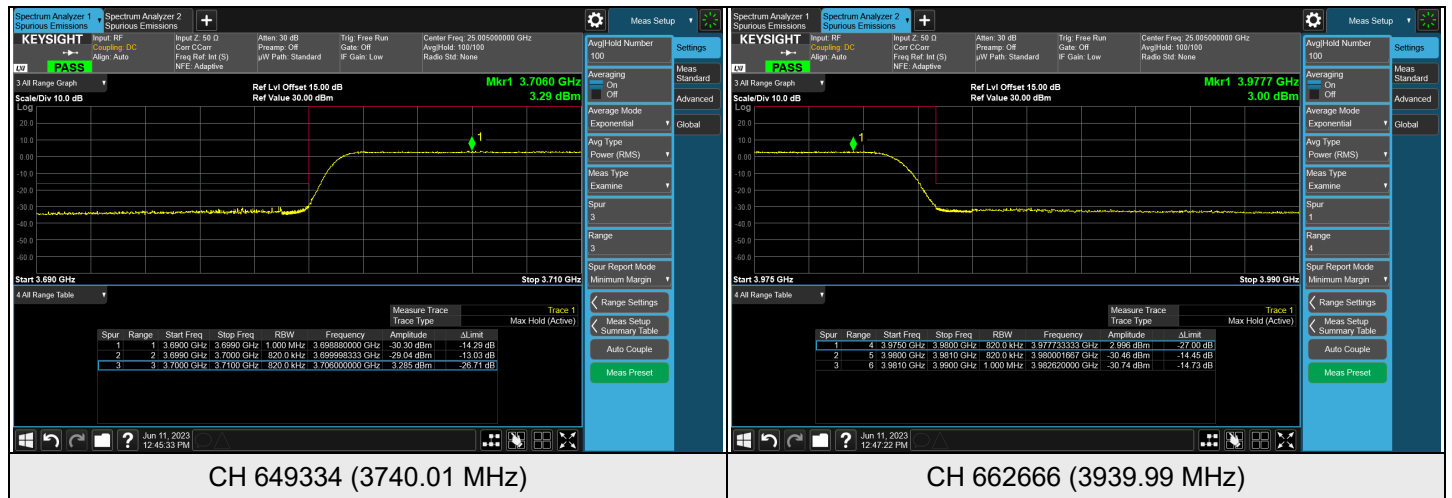
CH 656000 (3840.00 MHz)



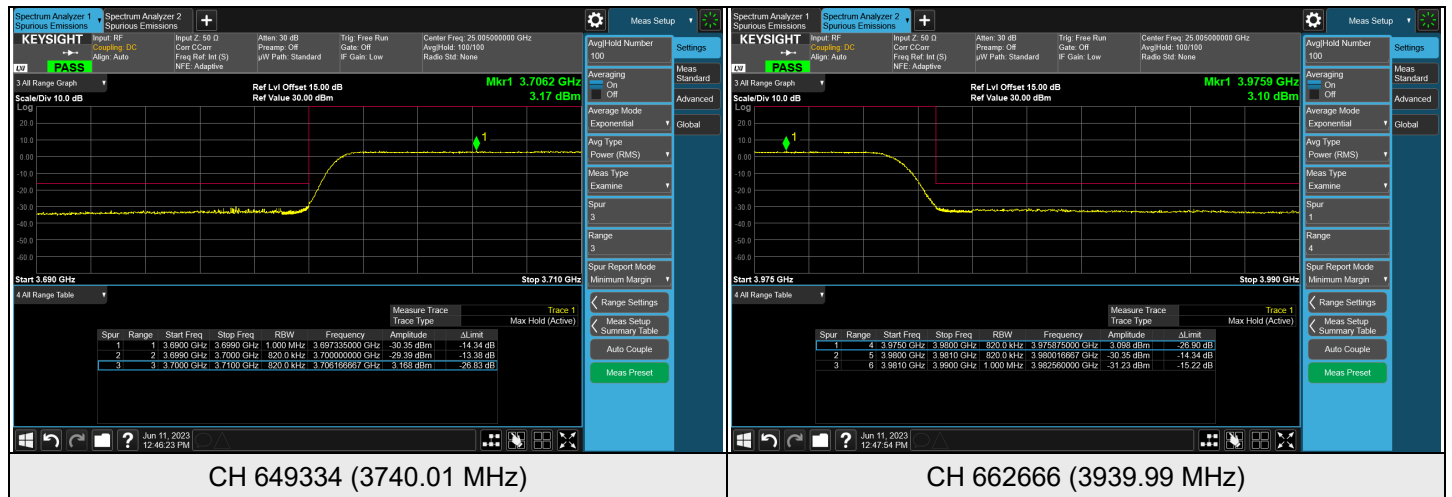
CH 662666 (3939.99 MHz)

*The 9kHz signal over the limit is from Spectrum.

Chain 0



Chain 1

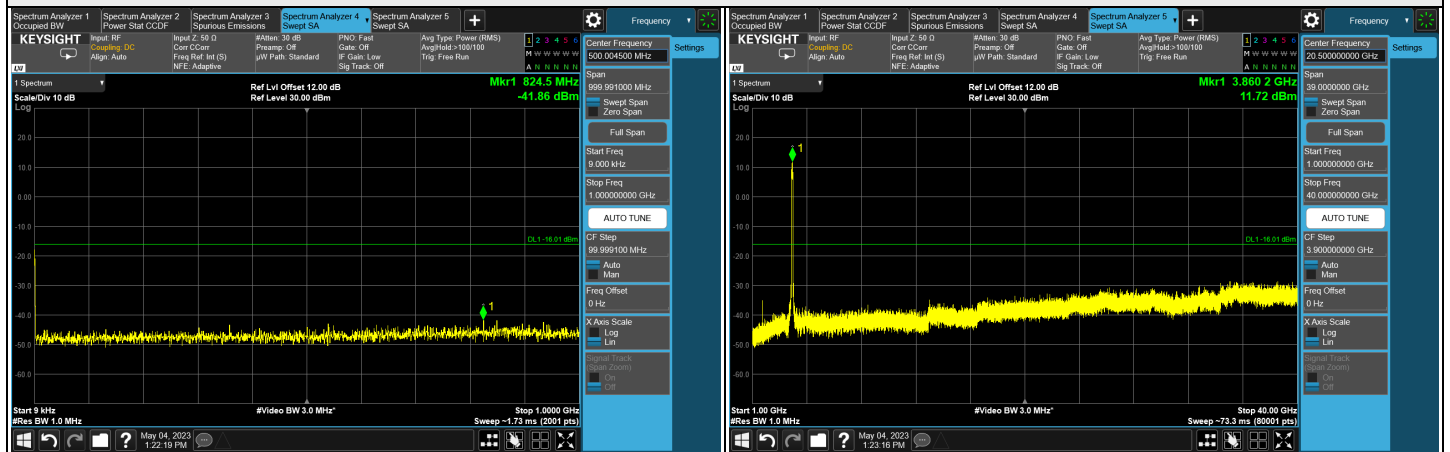


NR n77 (3700-3980 MHz) SCS 30 kHz, Channel Bandwidth: 90 MHz

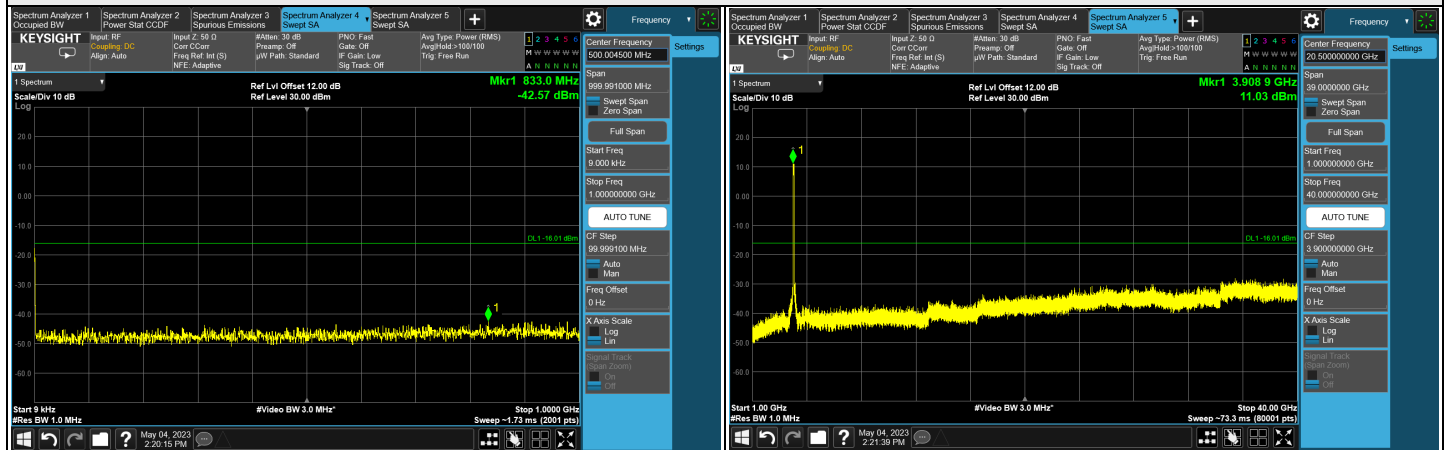
Chain 0



CH 649668 (3745.02 MHz)



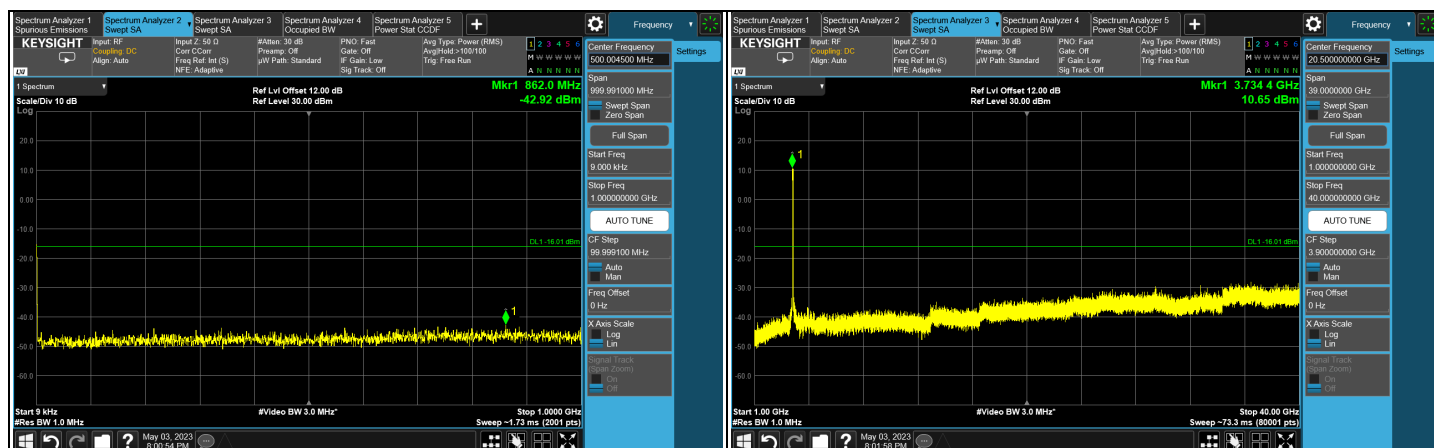
CH 656000 (3840.00 MHz)



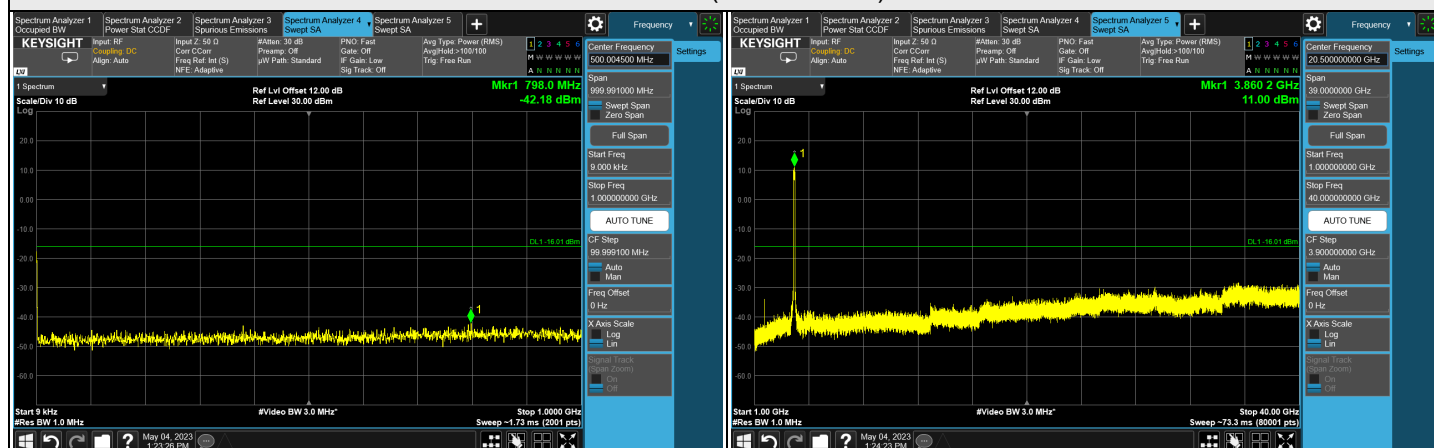
CH 662332 (3934.98 MHz)

*The 9kHz signal over the limit is from Spectrum.

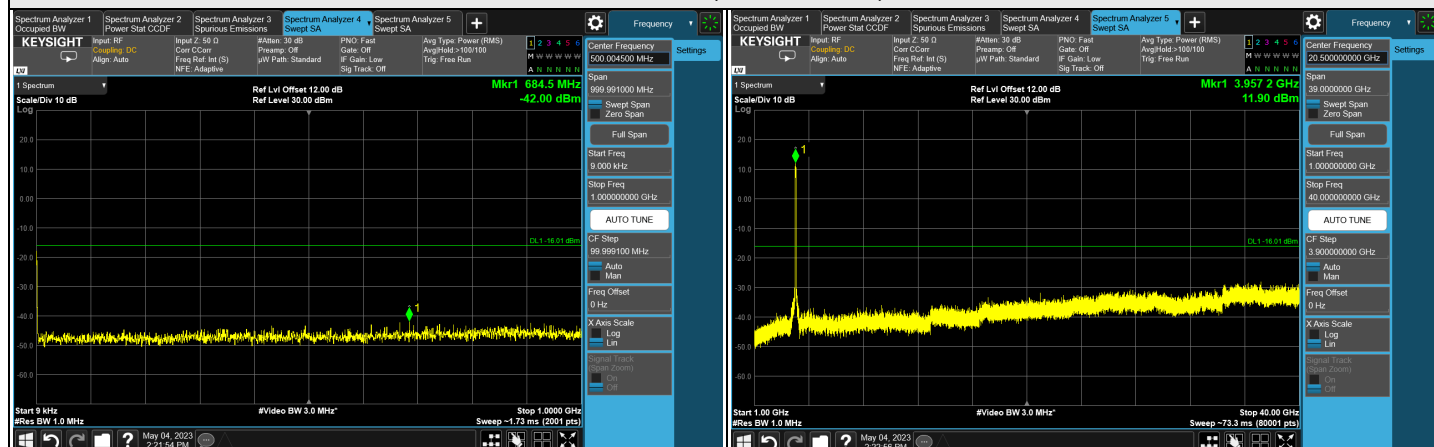
Chain 1



CH 649668 (3745.02 MHz)



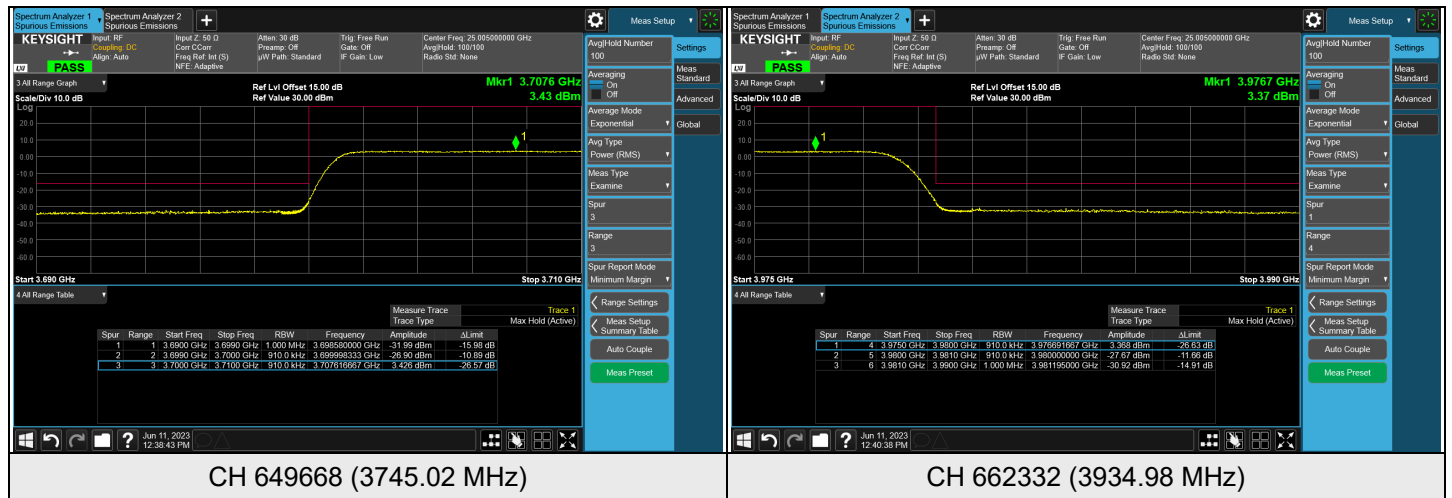
CH 656000 (3840.00 MHz)



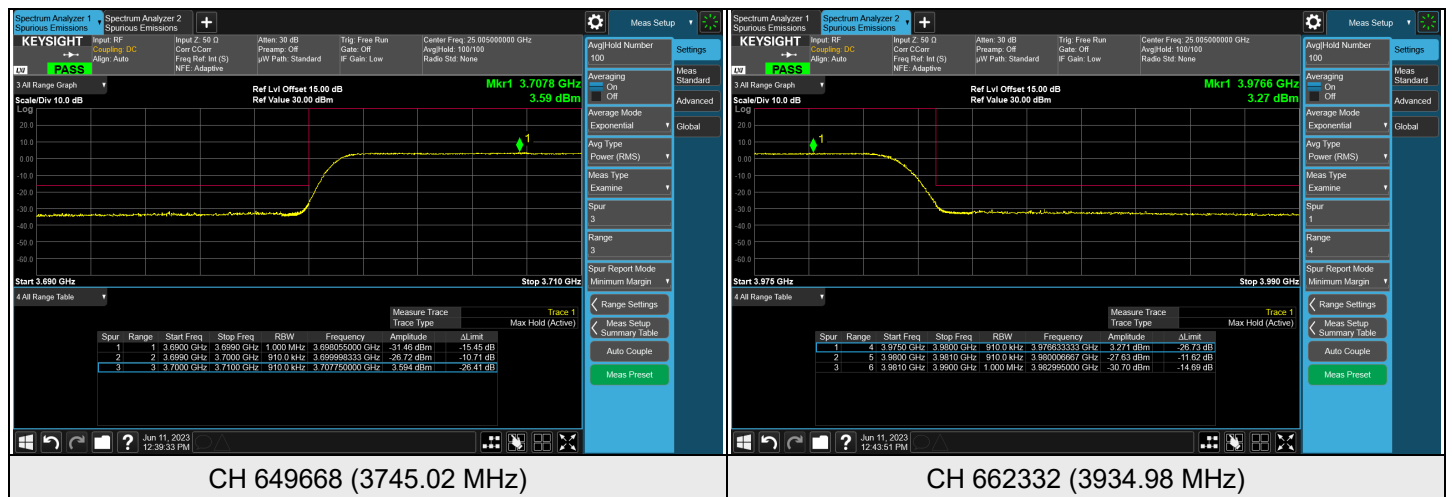
CH 662332 (3934.98 MHz)

*The 9kHz signal over the limit is from Spectrum.

Chain 0



Chain 1

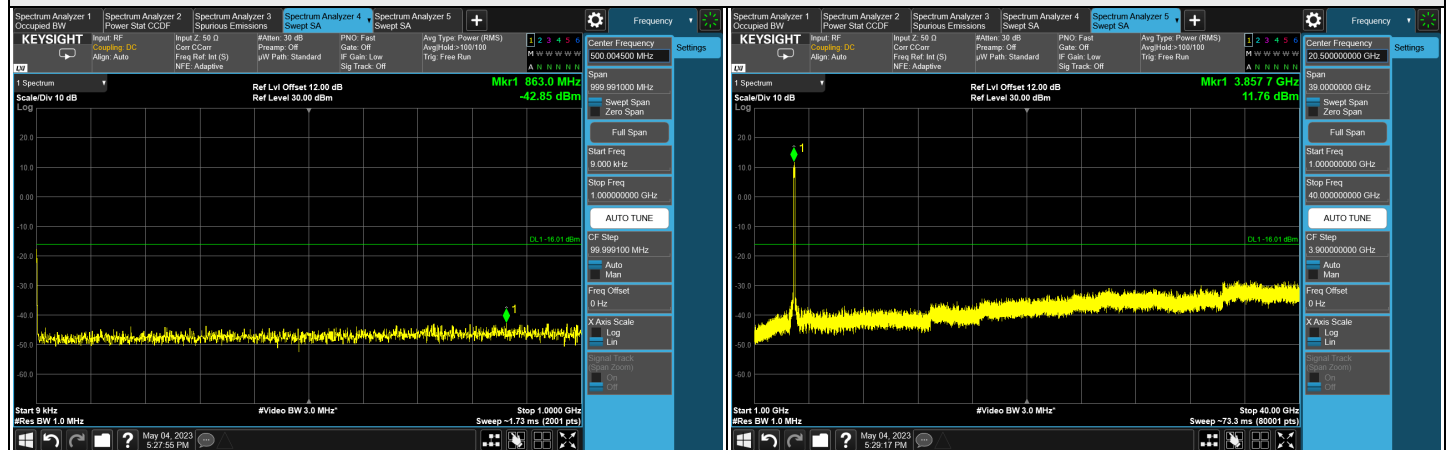


NR n77 (3700-3980 MHz) SCS 30 kHz, Channel Bandwidth: 100 MHz

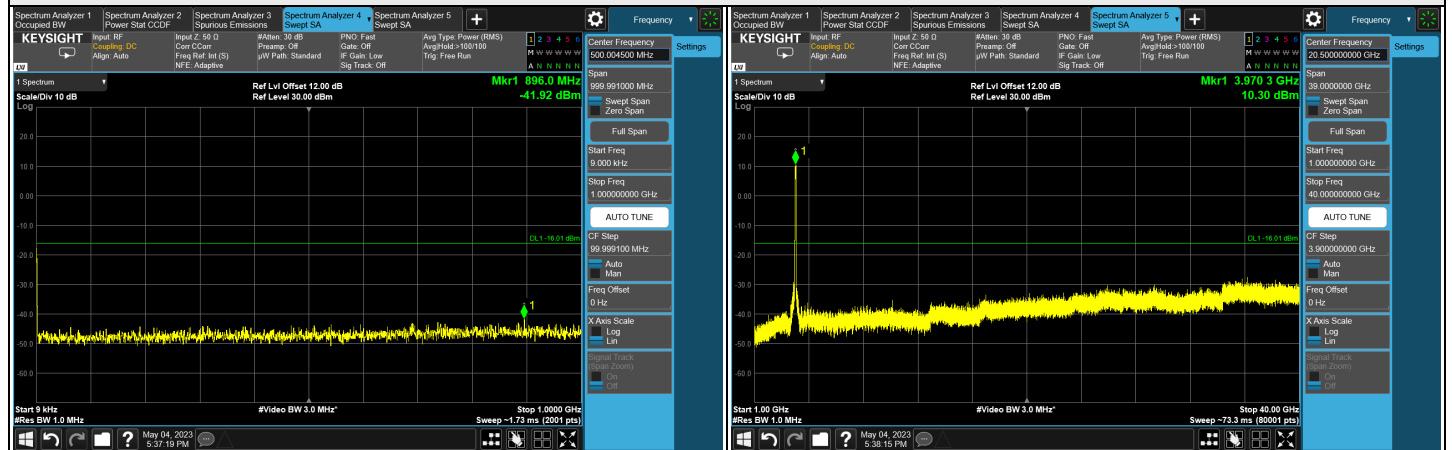
Chain 0



CH 650000 (3750.00 MHz)



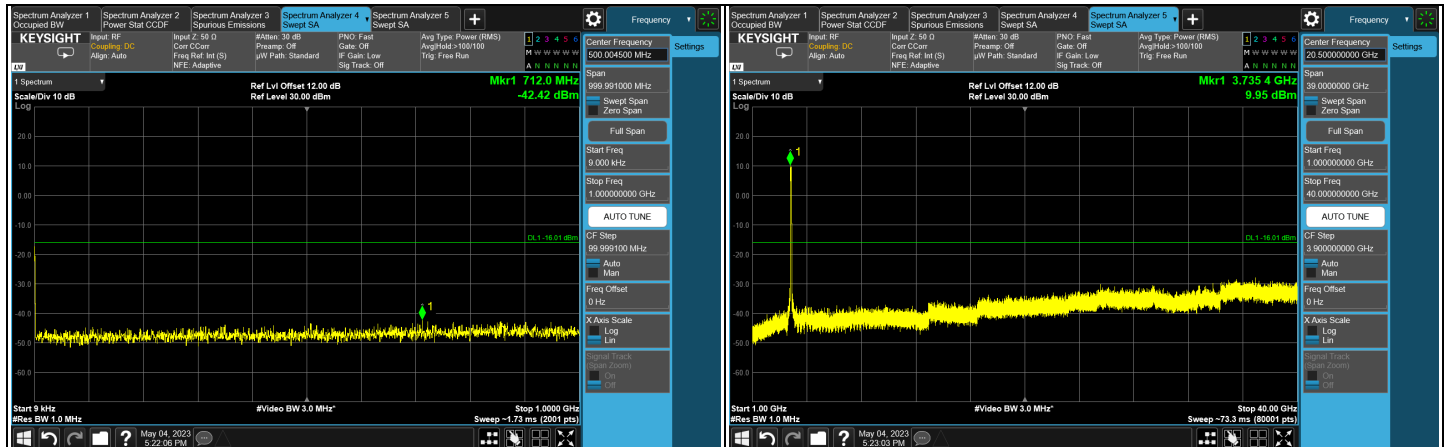
CH 656000 (3840.00 MHz)



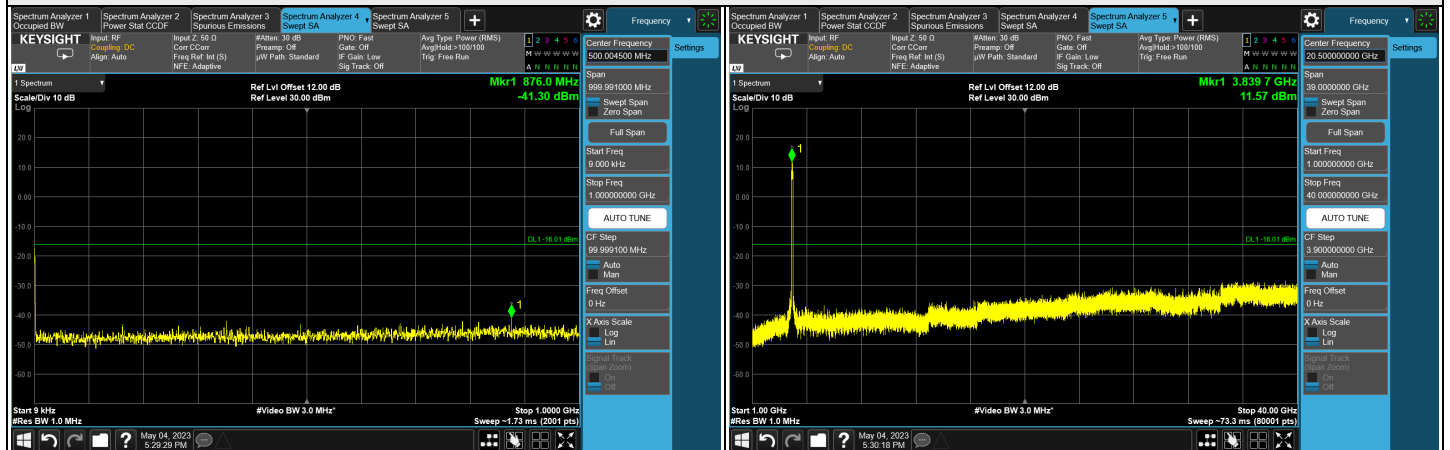
CH 662000 (3930.00 MHz)

*The 9kHz signal over the limit is from Spectrum.

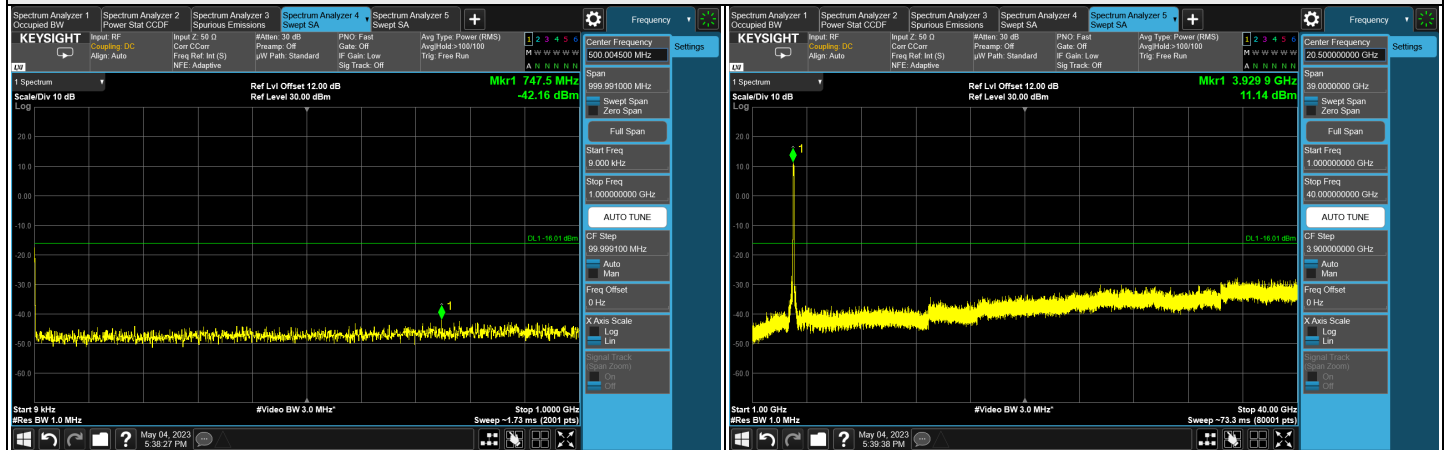
Chain 1



CH 650000 (3750.00 MHz)



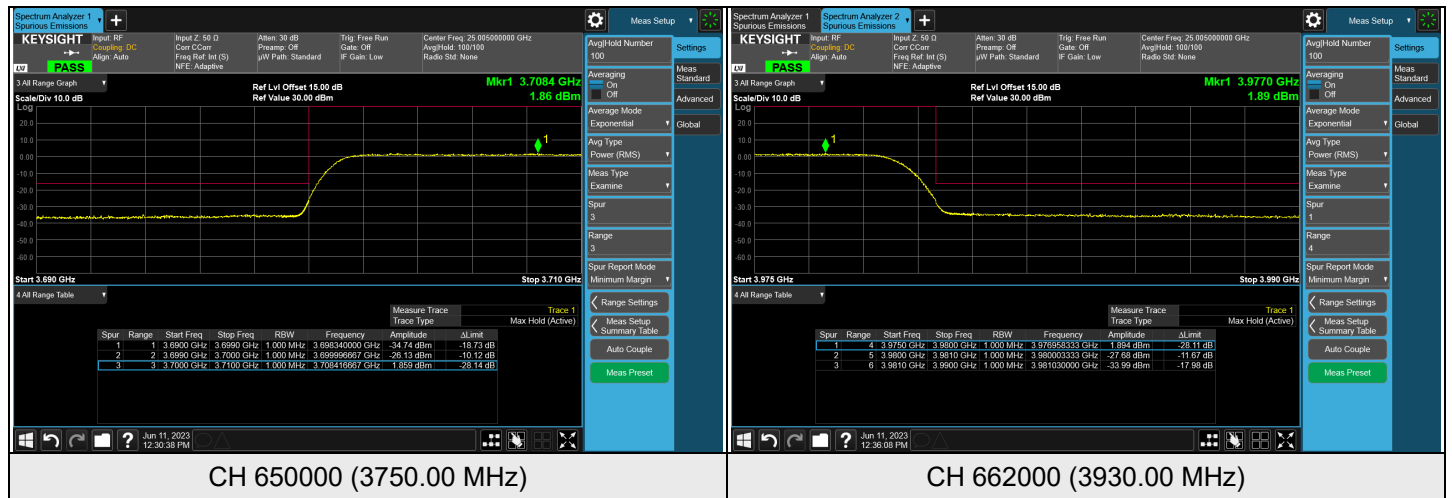
CH 656000 (3840.00 MHz)



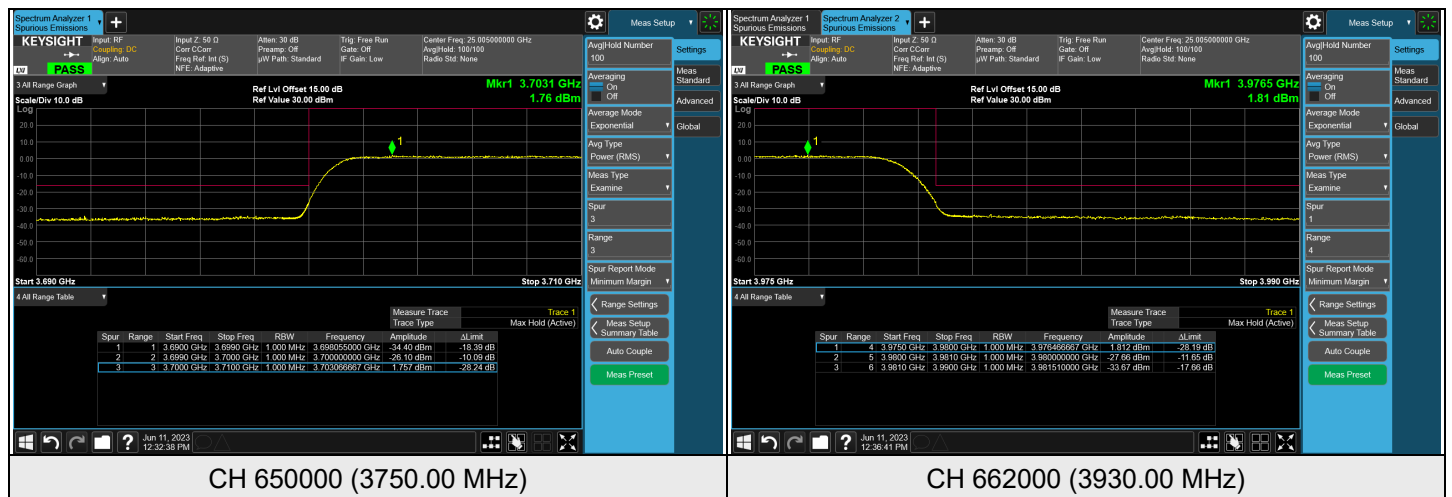
CH 662000 (3930.00 MHz)

*The 9kHz signal over the limit is from Spectrum.

Chain 0



Chain 1



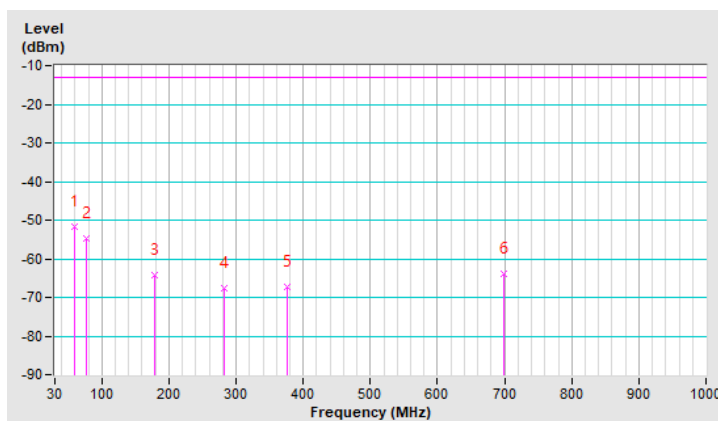
7.6 Radiated Spurious Emissions below 1GHz

RF Mode	NR n77 Channel Bandwidth: 40MHz	Channel	CH 648000: 3720.00 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 76% RH
Tested By	Adair Peng	Test Mode	A

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	60.07	-51.72	-13.00	-38.72	2.00 H	84	-41.75	-9.97
2	76.56	-54.59	-13.00	-41.59	2.00 H	130	-41.55	-13.04
3	178.41	-64.14	-13.00	-51.14	2.00 H	275	-53.81	-10.33
4	283.17	-67.59	-13.00	-54.59	1.01 H	206	-59.35	-8.24
5	375.32	-67.45	-13.00	-54.45	1.01 H	209	-60.93	-6.52
6	699.30	-64.00	-13.00	-51.00	2.00 H	330	-63.88	-0.12

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 EIRP levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

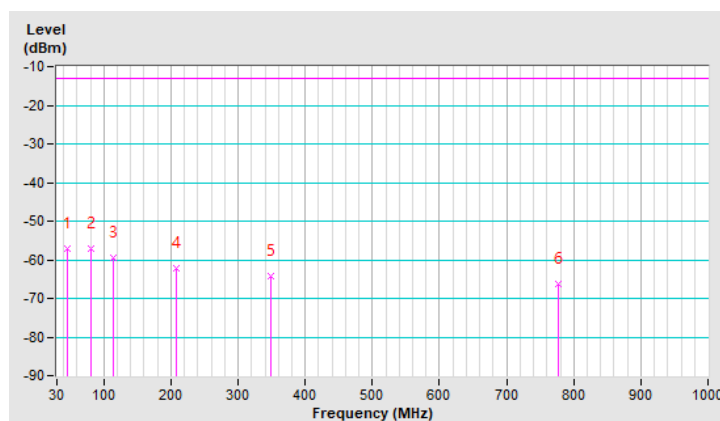


RF Mode	NR n77 Channel Bandwidth: 40MHz	Channel	CH 648000: 3720.00 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 76% RH
Tested By	Adair Peng	Test Mode	A

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	45.52	-57.02	-13.00	-44.02	1.50 V	22	-47.46	-9.56
2	81.41	-57.21	-13.00	-44.21	1.00 V	254	-43.05	-14.16
3	113.42	-59.40	-13.00	-46.40	1.00 V	66	-47.25	-12.15
4	207.51	-62.19	-13.00	-49.19	1.50 V	136	-50.20	-11.99
5	348.16	-64.17	-13.00	-51.17	1.50 V	18	-56.92	-7.25
6	776.90	-66.29	-13.00	-53.29	1.00 V	215	-68.13	1.84

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 EIRP levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

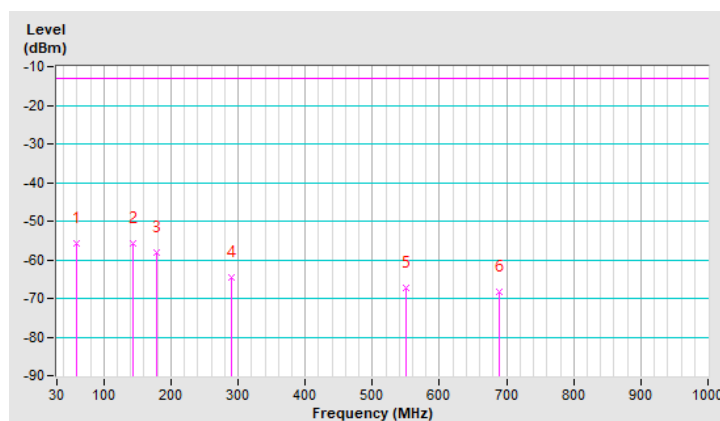


RF Mode	NR n77 Channel Bandwidth: 40MHz	Channel	CH 648000: 3720.00 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 76% RH
Tested By	Adair Peng	Test Mode	B

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	59.10	-55.82	-13.00	-42.82	1.99 H	58	-45.89	-9.93
2	142.52	-55.83	-13.00	-42.83	1.50 H	243	-46.31	-9.52
3	179.38	-58.02	-13.00	-45.02	1.50 H	290	-47.56	-10.46
4	290.93	-64.43	-13.00	-51.43	1.00 H	283	-56.32	-8.11
5	550.89	-67.40	-13.00	-54.40	1.50 H	214	-64.00	-3.40
6	688.63	-68.16	-13.00	-55.16	1.00 H	172	-67.76	-0.40

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 EIRP levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

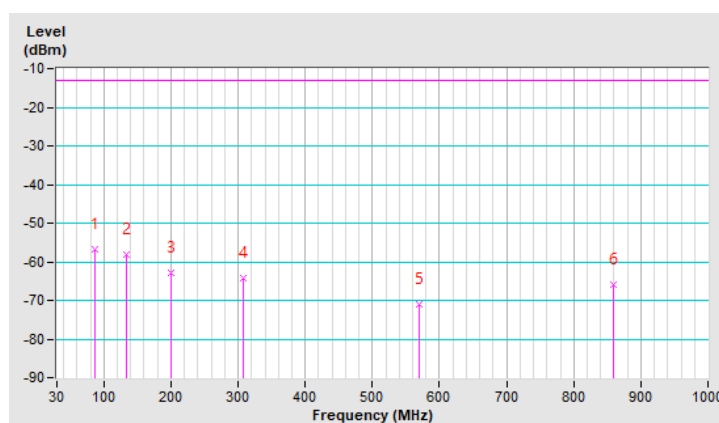


RF Mode	NR n77 Channel Bandwidth: 40MHz	Channel	CH 648000: 3720.00 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 76% RH
Tested By	Adair Peng	Test Mode	B

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	87.23	-56.73	-13.00	-43.73	1.01 V	275	-41.80	-14.93
2	132.82	-58.01	-13.00	-45.01	1.51 V	60	-47.74	-10.27
3	200.72	-62.84	-13.00	-49.84	1.01 V	179	-50.75	-12.09
4	307.42	-64.18	-13.00	-51.18	2.00 V	193	-56.50	-7.68
5	570.29	-71.10	-13.00	-58.10	1.51 V	214	-68.17	-2.93
6	858.38	-66.01	-13.00	-53.01	1.01 V	270	-69.04	3.03

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 EIRP levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



7.7 Radiated Spurious Emissions above 1GHz

RF Mode	NR n77 Channel Bandwidth: 40MHz	Channel	CH 648000: 3720.00 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 76% RH
Tested By	Adair Peng	Test Mode	A

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	7440.00	-39.92	-13.00	-26.92	1.50 H	323	44.22	-84.14
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	7440.00	-39.37	-13.00	-26.37	1.10 V	11	44.77	-84.14

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.

RF Mode	NR n77 Channel Bandwidth: 40MHz	Channel	CH 656000: 3840.00 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 76% RH
Tested By	Adair Peng	Test Mode	A

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	7680.00	-40.51	-13.00	-27.51	1.54 H	325	44.25	-84.76
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	7680.00	-39.65	-13.00	-26.65	1.11 V	15	45.11	-84.76

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.

RF Mode	NR n77 Channel Bandwidth: 40MHz	Channel	CH 664000: 3960.00 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 76% RH
Tested By	Adair Peng	Test Mode	A

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	7920.00	-41.03	-13.00	-28.03	1.54 H	330	42.87	-83.90
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	7920.00	-40.41	-13.00	-27.41	2.75 V	14	43.49	-83.90

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.

RF Mode	NR n77 Channel Bandwidth: 60MHz	Channel	CH 648668: 3730.02 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 76% RH
Tested By	Adair Peng	Test Mode	A

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	7460.04	-41.31	-13.00	-28.31	1.43 H	320	42.79	-84.10
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	7460.04	-40.85	-13.00	-27.85	1.08 V	11	43.25	-84.10

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.

RF Mode	NR n77 Channel Bandwidth: 60MHz	Channel	CH 656000: 3840.00 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 76% RH
Tested By	Adair Peng	Test Mode	A

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	7680.00	-40.01	-13.00	-27.01	1.61 H	335	44.75	-84.76
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	7680.00	-39.39	-13.00	-26.39	1.86 V	3	45.37	-84.76

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.

RF Mode	NR n77 Channel Bandwidth: 60MHz	Channel	CH 663332: 3949.98 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 76% RH
Tested By	Adair Peng	Test Mode	A

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	7899.96	-40.58	-13.00	-27.58	1.62 H	329	43.39	-83.97
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	7899.96	-39.96	-13.00	-26.96	1.53 V	2	44.01	-83.97

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.

RF Mode	NR n77 Channel Bandwidth: 100MHz	Channel	CH 650000 : 3750 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 76% RH
Tested By	Adair Peng	Test Mode	A

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	7500.00	-42.45	-13.00	-29.45	1.71 H	326	41.78	-84.23
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	7500.00	-41.84	-13.00	-28.84	2.25 V	14	42.39	-84.23

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.

RF Mode	NR n77 Channel Bandwidth: 100MHz	Channel	CH 656000 : 3840 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 76% RH
Tested By	Adair Peng	Test Mode	A

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	7680.00	-41.18	-13.00	-28.18	1.53 H	322	43.58	-84.76
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	7680.00	-40.61	-13.00	-27.61	2.16 V	28	44.15	-84.76

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.

RF Mode	NR n77 Channel Bandwidth: 100MHz	Channel	CH 662000 : 3930 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 76% RH
Tested By	Adair Peng	Test Mode	A

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	7860.00	-41.56	-13.00	-28.56	1.43 H	334	42.62	-84.18
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	7860.00	-41.06	-13.00	-28.06	2.53 V	16	43.12	-84.18

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.

7.8 Frequency Stability

Environmental Conditions:	25°C, 60% RH	Tested By:	Ted Chang
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NR n77 (3700-3980 MHz) SCS 30 kHz, Channel Bandwidth: 40 MHz

Chain 0

Frequency Stability Versus Voltage				
Voltage (Vac)	CH 648000 (3720.00 MHz)		CH 664000 (3960.00 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
120.0	3720.000002	0.000538	3960.000003	0.000758
102.0	3720.000002	0.000538	3960.000001	0.000253
132.0	3719.999996	-0.001075	3959.999998	-0.000505

Note: The applicant defined the normal working voltage is from 102 to 132 Vac.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 648000 (3720.00 MHz)		CH 664000 (3960.00 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3720.000002	0.000538	3960.000001	0.000253
-20	3720.000002	0.000538	3960.000002	0.000505
-10	3720.000002	0.000538	3959.999999	-0.000253
0	3719.999996	-0.001075	3960.000003	0.000758
10	3719.999998	-0.000538	3960.000002	0.000505
20	3719.999996	-0.001075	3960.000003	0.000758
30	3719.999997	-0.000806	3960.000001	0.000253
40	3719.999998	-0.000538	3959.999997	-0.000758
50	3720.000003	0.000806	3959.999998	-0.000505

Chain 1

Frequency Stability Versus Voltage				
Voltage (Vac)	CH 648000 (3720.00 MHz)		CH 664000 (3960.00 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
120.0	3720.000002	0.000538	3960.000001	0.000253
102.0	3720.000003	0.000806	3959.999998	-0.000505
132.0	3719.999999	-0.000269	3960.000001	0.000253

Note: The applicant defined the normal working voltage is from 102 to 132 Vac.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 648000 (3720.00 MHz)		CH 664000 (3960.00 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3720.000004	0.001075	3960.000001	0.000253
-20	3720.000001	0.000269	3960.000001	0.000253
-10	3720.000001	0.000269	3959.999997	-0.000758
0	3720.000003	0.000806	3959.999998	-0.000505
10	3720.000004	0.001075	3960.000004	0.001010
20	3719.999999	-0.000269	3959.999996	-0.001010
30	3720.000004	0.001075	3960.000002	0.000505
40	3719.999997	-0.000806	3960.000002	0.000505
50	3720.000003	0.000806	3959.999996	-0.001010

NR n77 (3700-3980 MHz) SCS 30 kHz, Channel Bandwidth: 50 MHz

Chain 0

Frequency Stability Versus Voltage				
Voltage (Vac)	CH 648334 (3725.01 MHz)		CH 663666 (3954.99 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
120.0	3725.009998	-0.000537	3954.989996	-0.001011
102.0	3725.010001	0.000268	3954.989996	-0.001011
132.0	3725.010002	0.000537	3954.989996	-0.001011

Note: The applicant defined the normal working voltage is from 102 to 132 Vac.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 648334 (3725.01 MHz)		CH 663666 (3954.99 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3725.010002	0.000537	3954.989999	-0.000253
-20	3725.010001	0.000268	3954.989996	-0.001011
-10	3725.009999	-0.000268	3954.989997	-0.000759
0	3725.009996	-0.001074	3954.989999	-0.000253
10	3725.010002	0.000537	3954.989998	-0.000506
20	3725.010004	0.001074	3954.990003	0.000759
30	3725.009998	-0.000537	3954.990003	0.000759
40	3725.009997	-0.000805	3954.990002	0.000506
50	3725.010001	0.000268	3954.989997	-0.000759

Chain 1

Frequency Stability Versus Voltage				
Voltage (Vac)	CH 648334 (3725.01 MHz)		CH 663666 (3954.99 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
120.0	3725.009999	-0.000268	3954.989996	-0.001011
102.0	3725.009996	-0.001074	3954.990002	0.000506
132.0	3725.010004	0.001074	3954.989996	-0.001011

Note: The applicant defined the normal working voltage is from 102 to 132 Vac.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 648334 (3725.01 MHz)		CH 663666 (3954.99 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3725.010004	0.001074	3954.989996	-0.001011
-20	3725.010003	0.000805	3954.990001	0.000253
-10	3725.010003	0.000805	3954.990004	0.001011
0	3725.009999	-0.000268	3954.989999	-0.000253
10	3725.009999	-0.000268	3954.990002	0.000506
20	3725.010004	0.001074	3954.989999	-0.000253
30	3725.010001	0.000268	3954.990003	0.000759
40	3725.009997	-0.000805	3954.990003	0.000759
50	3725.009996	-0.001074	3954.989998	-0.000506

NR n77 (3700-3980 MHz) SCS 30 kHz, Channel Bandwidth: 60 MHz

Chain 0

Frequency Stability Versus Voltage				
Voltage (Vac)	CH 648668 (3730.02 MHz)		CH 663332 (3949.98 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
120.0	3730.019996	-0.001072	3949.979997	-0.000759
102.0	3730.020004	0.001072	3949.980003	0.000759
132.0	3730.019996	-0.001072	3949.980001	0.000253

Note: The applicant defined the normal working voltage is from 102 to 132 Vac.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 648668 (3730.02 MHz)		CH 663332 (3949.98 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3730.019999	-0.000268	3949.979999	-0.000253
-20	3730.019997	-0.000804	3949.979997	-0.000759
-10	3730.020002	0.000536	3949.980003	0.000759
0	3730.019996	-0.001072	3949.979997	-0.000759
10	3730.019997	-0.000804	3949.979996	-0.001013
20	3730.020002	0.000536	3949.979996	-0.001013
30	3730.019997	-0.000804	3949.979998	-0.000506
40	3730.019999	-0.000268	3949.979997	-0.000759
50	3730.019998	-0.000536	3949.980002	0.000506

Chain 1

Frequency Stability Versus Voltage				
Voltage (Vac)	CH 648668 (3730.02 MHz)		CH 663332 (3949.98 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
120.0	3730.020004	0.001072	3949.979998	-0.000506
102.0	3730.019998	-0.000536	3949.979999	-0.000253
132.0	3730.020003	0.000804	3949.979996	-0.001013

Note: The applicant defined the normal working voltage is from 102 to 132 Vac.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 648668 (3730.02 MHz)		CH 663332 (3949.98 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3730.019999	-0.000268	3949.980001	0.000253
-20	3730.020002	0.000536	3949.980004	0.001013
-10	3730.019998	-0.000536	3949.980002	0.000506
0	3730.019997	-0.000804	3949.980001	0.000253
10	3730.019996	-0.001072	3949.979996	-0.001013
20	3730.019999	-0.000268	3949.980003	0.000759
30	3730.020004	0.001072	3949.979996	-0.001013
40	3730.019996	-0.001072	3949.980002	0.000506
50	3730.019999	-0.000268	3949.979998	-0.000506

NR n77 (3700-3980 MHz) SCS 30 kHz, Channel Bandwidth: 70 MHz

Chain 0

Frequency Stability Versus Voltage				
Voltage (Vac)	CH 649000 (3735.00 MHz)		CH 663000 (3945.00 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
120.0	3734.999996	-0.001067	3945.000003	0.000763
102.0	3735.000004	0.001067	3944.999996	-0.001018
132.0	3735.000004	0.001067	3945.000004	0.001018

Note: The applicant defined the normal working voltage is from 102 to 132 Vac.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 649000 (3735.00 MHz)		CH 663000 (3945.00 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3734.999998	-0.000533	3944.999997	-0.000763
-20	3735.000001	0.000267	3945.000002	0.000509
-10	3735.000002	0.000533	3944.999996	-0.001018
0	3735.000003	0.000800	3944.999997	-0.000763
10	3734.999997	-0.000800	3945.000003	0.000763
20	3735.000001	0.000267	3944.999997	-0.000763
30	3735.000004	0.001067	3944.999999	-0.000254
40	3735.000001	0.000267	3945.000003	0.000763
50	3734.999999	-0.000267	3945.000003	0.000763

Chain 1

Frequency Stability Versus Voltage				
Voltage (Vac)	CH 649000 (3735.00 MHz)		CH 663000 (3945.00 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
120.0	3735.000002	0.000533	3944.999996	-0.001018
102.0	3734.999998	-0.000533	3945.000001	0.000254
132.0	3735.000004	0.001067	3945.000003	0.000763

Note: The applicant defined the normal working voltage is from 102 to 132 Vac.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 649000 (3735.00 MHz)		CH 663000 (3945.00 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3734.999998	-0.000533	3945.000004	0.001018
-20	3734.999999	-0.000267	3944.999998	-0.000509
-10	3735.000003	0.000800	3944.999996	-0.001018
0	3735.000004	0.001067	3944.999999	-0.000254
10	3735.000001	0.000267	3944.999996	-0.001018
20	3735.000002	0.000533	3944.999999	-0.000254
30	3734.999997	-0.000800	3945.000003	0.000763
40	3735.000003	0.000800	3945.000003	0.000763
50	3734.999997	-0.000800	3945.000003	0.000763

NR n77 (3700-3980 MHz) SCS 30 kHz, Channel Bandwidth: 80 MHz

Chain 0

Frequency Stability Versus Voltage				
Voltage (Vac)	CH 649334 (3740.01 MHz)		CH 662666 (3939.99 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
120.0	3740.010002	0.000533	3939.989996	-0.001018
102.0	3740.009999	-0.000267	3939.990001	0.000254
132.0	3740.010004	0.001067	3939.989997	-0.000763

Note: The applicant defined the normal working voltage is from 102 to 132 Vac.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 649334 (3740.01 MHz)		CH 662666 (3939.99 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3740.010003	0.000800	3939.989996	-0.001018
-20	3740.009998	-0.000533	3939.989998	-0.000509
-10	3740.010002	0.000533	3939.989999	-0.000254
0	3740.009996	-0.001067	3939.990004	0.001018
10	3740.010003	0.000800	3939.990001	0.000254
20	3740.009997	-0.000800	3939.990001	0.000254
30	3740.009999	-0.000267	3939.989997	-0.000763
40	3740.010004	0.001067	3939.989999	-0.000254
50	3740.010004	0.001067	3939.990004	0.001018

Chain 1

Frequency Stability Versus Voltage				
Voltage (Vac)	CH 649334 (3740.01 MHz)		CH 662666 (3939.99 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
120.0	3740.009998	-0.000533	3939.989998	-0.000509
102.0	3740.010002	0.000533	3939.990001	0.000254
132.0	3740.010001	0.000267	3939.990004	0.001018

Note: The applicant defined the normal working voltage is from 102 to 132 Vac.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 649334 (3740.01 MHz)		CH 662666 (3939.99 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3740.009996	-0.001067	3939.990002	0.000509
-20	3740.010002	0.000533	3939.990002	0.000509
-10	3740.009996	-0.001067	3939.989997	-0.000763
0	3740.009999	-0.000267	3939.989997	-0.000763
10	3740.010001	0.000267	3939.989996	-0.001018
20	3740.009996	-0.001067	3939.989997	-0.000763
30	3740.010001	0.000267	3939.990003	0.000763
40	3740.009997	-0.000800	3939.989998	-0.000509
50	3740.009996	-0.001067	3939.989998	-0.000509

NR n77 (3700-3980 MHz) SCS 30 kHz, Channel Bandwidth: 90 MHz

Chain 0

Frequency Stability Versus Voltage				
Voltage (Vac)	CH 649668 (3745.02 MHz)		CH 662332 (3934.98 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
120.0	3745.019997	-0.000800	3934.980004	0.001018
102.0	3745.020001	0.000267	3934.979997	-0.000763
132.0	3745.020004	0.001067	3934.980004	0.001018

Note: The applicant defined the normal working voltage is from 102 to 132 Vac.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 649668 (3745.02 MHz)		CH 662332 (3934.98 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3745.020003	0.000800	3934.979999	-0.000254
-20	3745.019996	-0.001067	3934.980003	0.000763
-10	3745.020002	0.000533	3934.979998	-0.000509
0	3745.020001	0.000267	3934.979996	-0.001018
10	3745.020004	0.001067	3934.979996	-0.001018
20	3745.020001	0.000267	3934.980001	0.000254
30	3745.019996	-0.001067	3934.979996	-0.001018
40	3745.020004	0.001067	3934.979999	-0.000254
50	3745.019997	-0.000800	3934.979998	-0.000509

Chain 1

Frequency Stability Versus Voltage				
Voltage (Vac)	CH 649668 (3745.02 MHz)		CH 662332 (3934.98 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
120.0	3745.020001	0.000267	3934.979997	-0.000763
102.0	3745.020003	0.000800	3934.980001	0.000254
132.0	3745.020004	0.001067	3934.980004	0.001018

Note: The applicant defined the normal working voltage is from 102 to 132 Vac.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 649668 (3745.02 MHz)		CH 662332 (3934.98 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3745.019996	-0.001067	3934.980004	0.001018
-20	3745.020004	0.001067	3934.980003	0.000763
-10	3745.019998	-0.000533	3934.979997	-0.000763
0	3745.019996	-0.001067	3934.980004	0.001018
10	3745.019998	-0.000533	3934.979997	-0.000763
20	3745.020002	0.000533	3934.979996	-0.001018
30	3745.020004	0.001067	3934.980004	0.001018
40	3745.019997	-0.000800	3934.980001	0.000254
50	3745.019997	-0.000800	3934.980002	0.000509

NR n77 (3700-3980 MHz) SCS 30 kHz, Channel Bandwidth: 100 MHz

Chain 0

Frequency Stability Versus Voltage				
Voltage (Vac)	CH 650000 (3750.00 MHz)		CH 662000 (3930.00 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
120.0	3750.000002	0.000533	3929.999996	-0.001018
102.0	3749.999998	-0.000533	3929.999996	-0.001018
132.0	3750.000002	0.000533	3929.999997	-0.000763

Note: The applicant defined the normal working voltage is from 102 to 132 Vac.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 650000 (3750.00 MHz)		CH 662000 (3930.00 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3749.999997	-0.000800	3930.000001	0.000254
-20	3750.000003	0.000800	3930.000001	0.000254
-10	3750.000003	0.000800	3930.000003	0.000763
0	3750.000001	0.000267	3929.999999	-0.000254
10	3750.000003	0.000800	3929.999996	-0.001018
20	3750.000003	0.000800	3930.000004	0.001018
30	3749.999997	-0.000800	3930.000004	0.001018
40	3750.000003	0.000800	3930.000001	0.000254
50	3750.000004	0.001067	3930.000003	0.000763

Chain 1

Frequency Stability Versus Voltage				
Voltage (Vac)	CH 650000 (3750.00 MHz)		CH 662000 (3930.00 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
120.0	3750.000001	0.000267	3930.000001	0.000254
102.0	3749.999997	-0.000800	3930.000002	0.000509
132.0	3750.000001	0.000267	3929.999998	-0.000509

Note: The applicant defined the normal working voltage is from 102 to 132 Vac.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 650000 (3750.00 MHz)		CH 662000 (3930.00 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3749.999997	-0.000800	3930.000003	0.000763
-20	3750.000001	0.000267	3930.000004	0.001018
-10	3750.000004	0.001067	3929.999998	-0.000509
0	3749.999999	-0.000267	3930.000002	0.000509
10	3750.000003	0.000800	3929.999998	-0.000509
20	3750.000001	0.000267	3929.999997	-0.000763
30	3749.999998	-0.000533	3930.000002	0.000509
40	3750.000004	0.001067	3930.000001	0.000254
50	3750.000004	0.001067	3930.000003	0.000763

8 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo)

9 Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

Lin Kou EMC/RF Lab

Tel: 886-2-26052180

Fax: 886-2-26051924

Hsin Chu EMC/RF/Telecom Lab

Tel: 886-3-6668565

Fax: 886-3-6668323

Hwa Ya EMC/RF/Safety Lab

Tel: 886-3-3183232

Fax: 886-3-3270892

Email: service.adt@bureauveritas.com

Web Site: <http://ee.bureauveritas.com.tw>

The address and road map of all our labs can be found in our web site also.

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