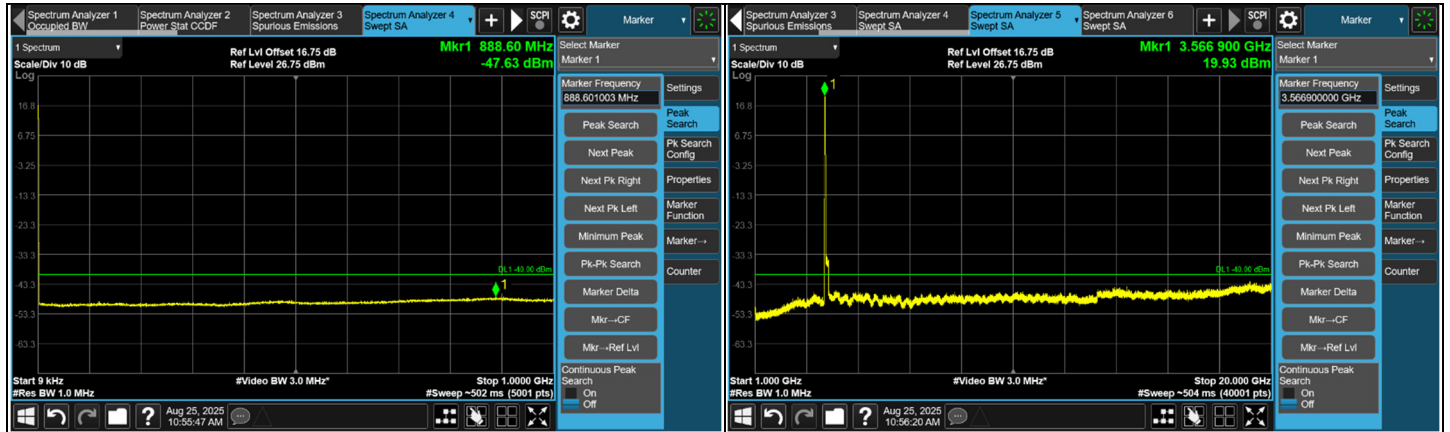
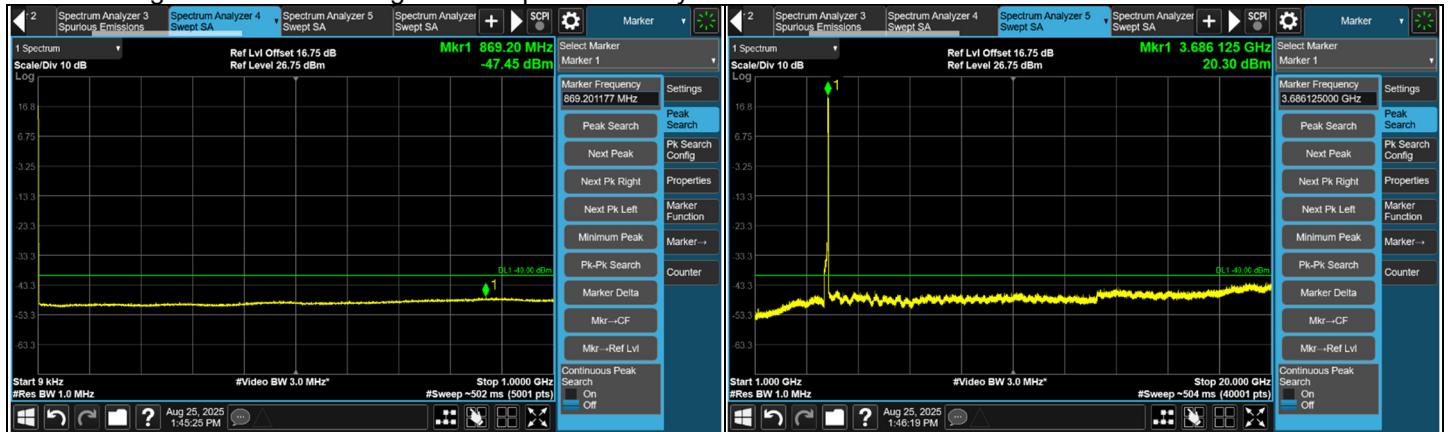


2CC, Channel Bandwidth: 20 MHz + 20 MHz, Ant.2



CH 637334 + CH 638668 (3560.01 MHz + 3580.02 MHz)

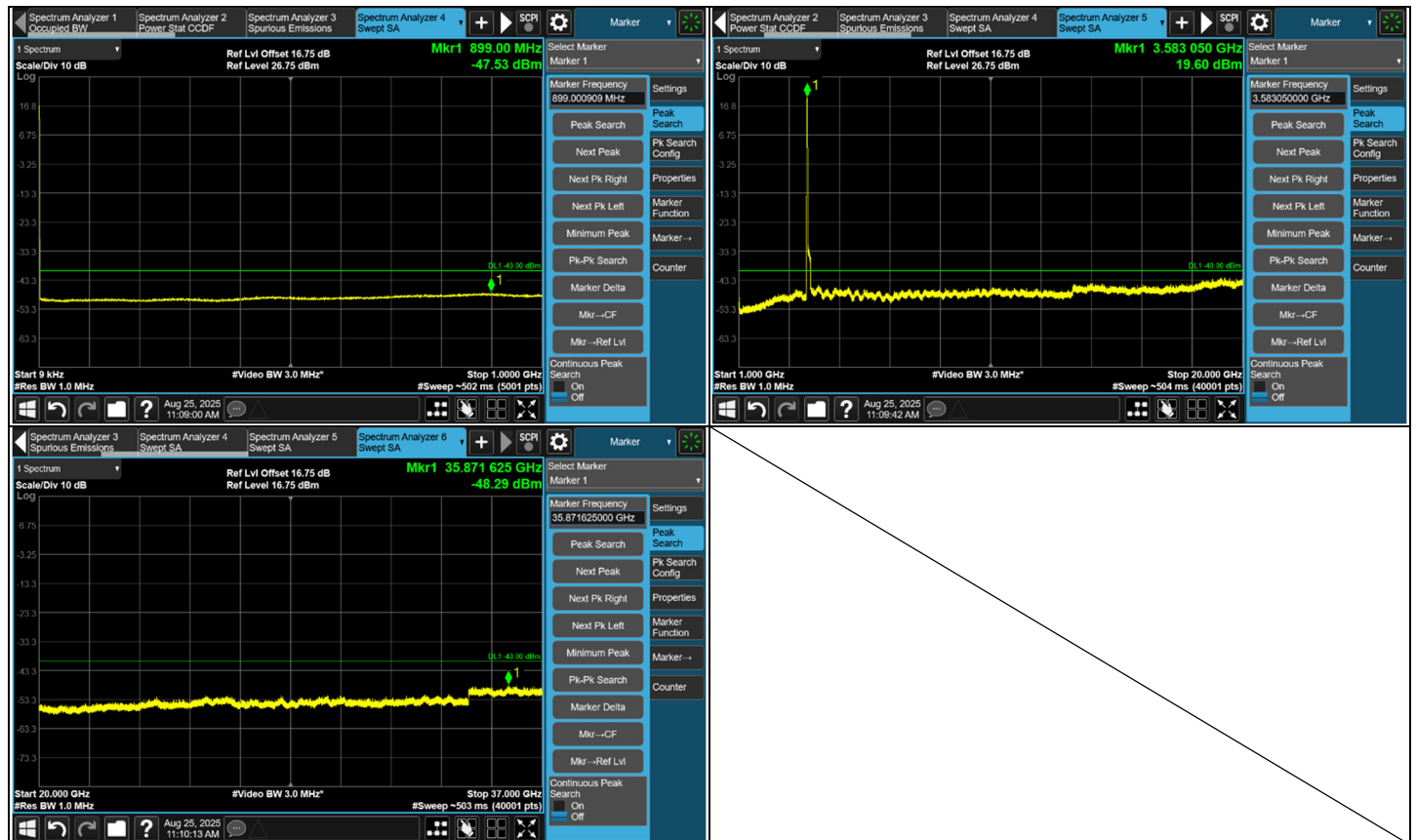
Note: The signal at 9 kHz is IF signal from spectrum analyzer.



CH 644668 + CH 646000 (3670.02 MHz + 3690 MHz)

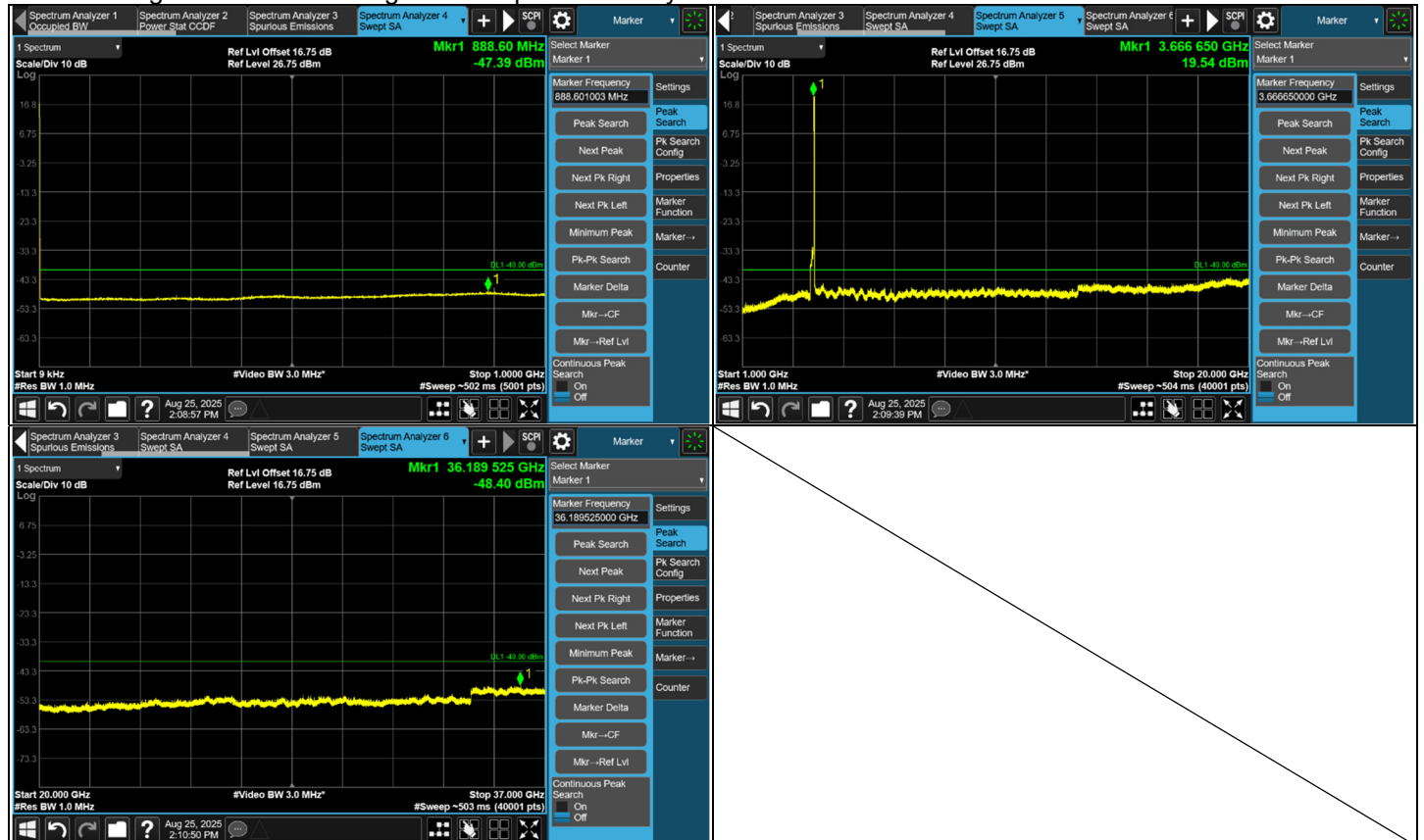
Note: The signal at 9 kHz is IF signal from spectrum analyzer.

2CC, Channel Bandwidth: 20 MHz + 20 MHz, Ant.3



CH 637334 + CH 638668 (3560.01 MHz + 3580.02 MHz)

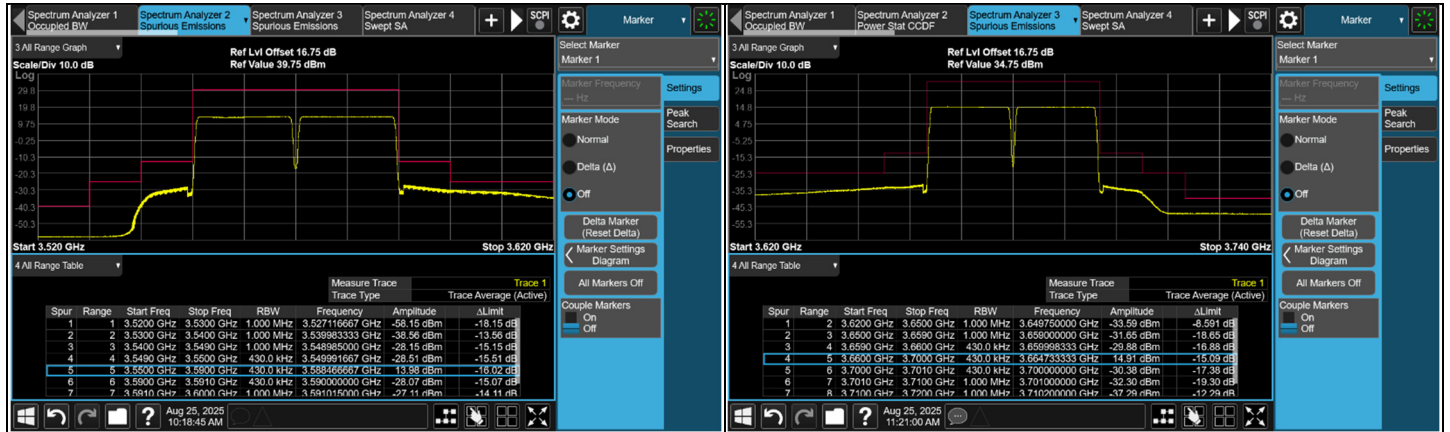
Note: The signal at 9 kHz is IF signal from spectrum analyzer.



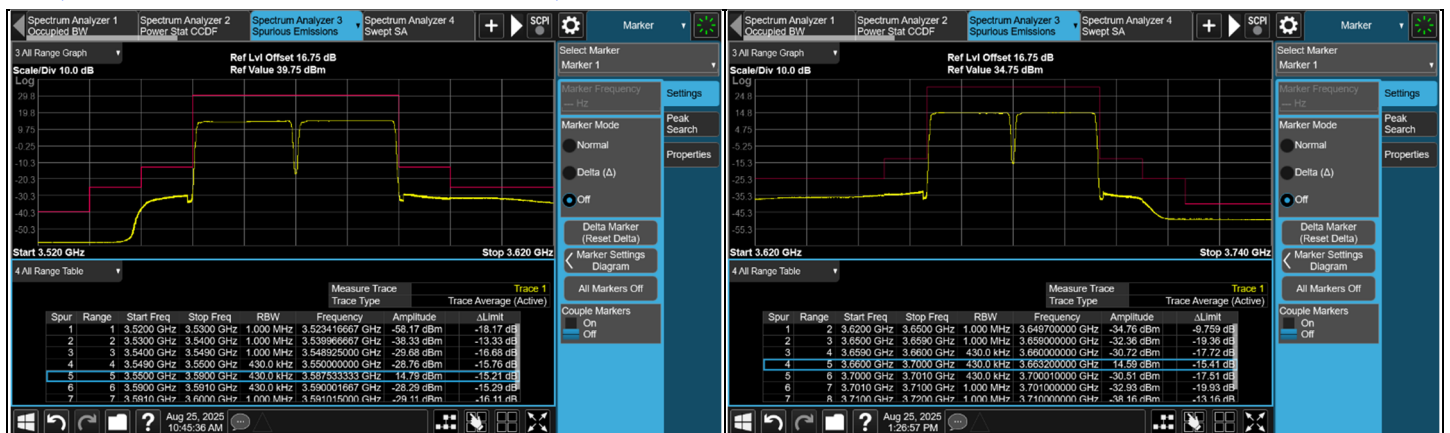
CH 644668 + CH 646000 (3670.02 MHz + 3690 MHz)

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

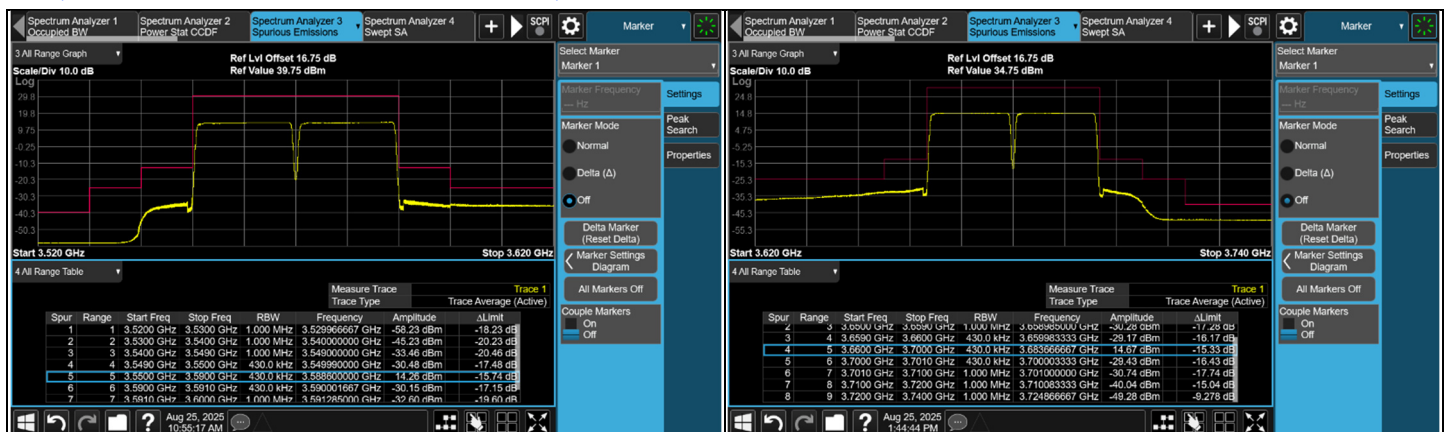
2CC, Channel Bandwidth: 20 MHz + 20 MHz, Ant.0



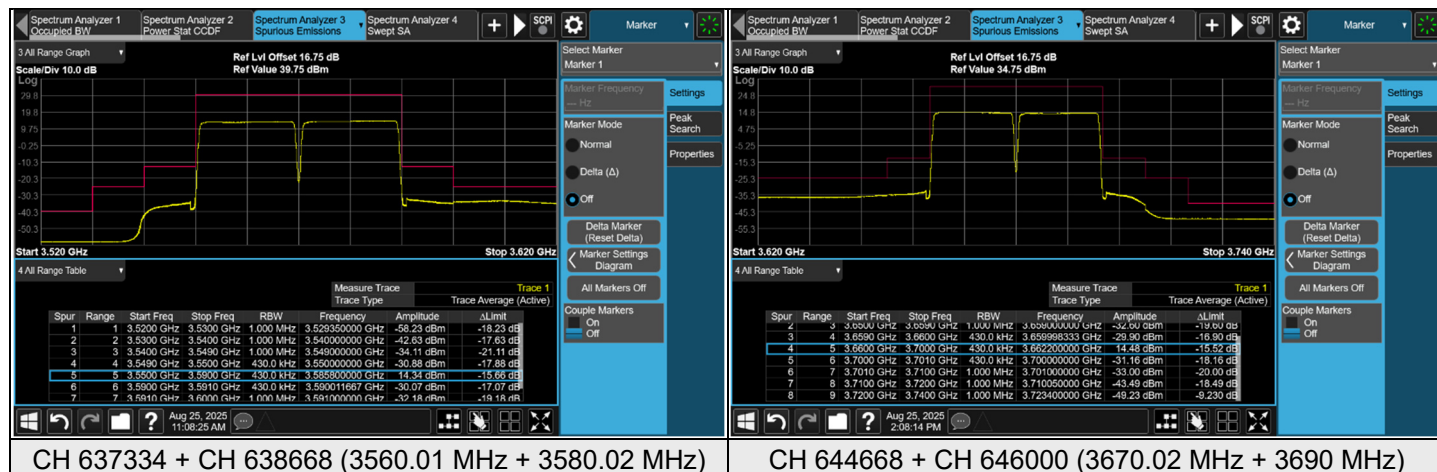
2CC, Channel Bandwidth: 20 MHz + 20 MHz, Ant.1



2CC, Channel Bandwidth: 20 MHz + 20 MHz, Ant.2



2CC, Channel Bandwidth: 20 MHz + 20 MHz, Ant.3



7.7 Radiated Spurious Emissions below 1GHz

7.7.1 NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz)

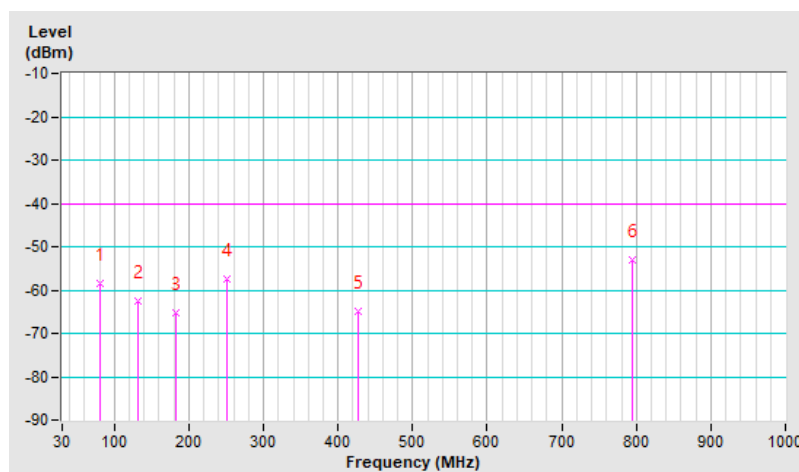
1CC

RF Mode	NR n48 Channel Bandwidth: 40MHz	Channel	CH 645332 : 3679.98 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, 67% RH
Tested By	Karl Lee		

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	81.41	-58.60	-40.00	-18.60	1.84 H	253	54.99	-113.59
2	131.85	-62.70	-40.00	-22.70	1.16 H	108	46.50	-109.20
3	182.29	-65.40	-40.00	-25.40	1.72 H	251	44.55	-109.95
4	250.19	-57.50	-40.00	-17.50	1.96 H	332	51.70	-109.20
5	426.73	-65.00	-40.00	-25.00	1.84 H	52	38.99	-103.99
6	794.36	-53.00	-40.00	-13.00	1.70 H	159	43.71	-96.71

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.

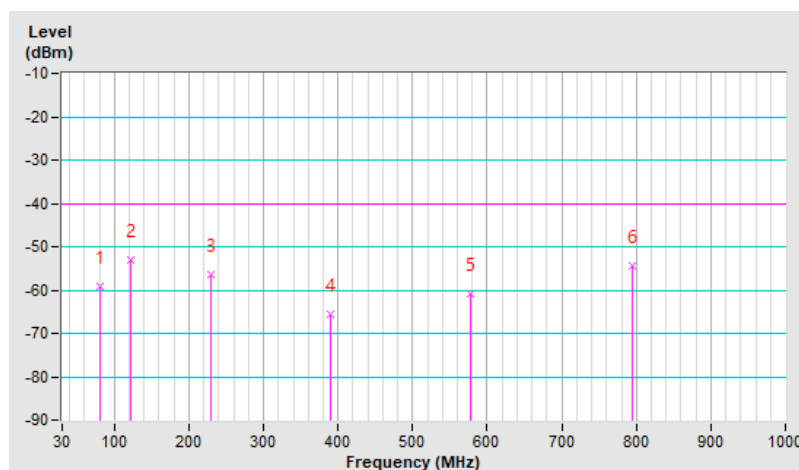


RF Mode	NR n48 Channel Bandwidth: 40MHz	Channel	CH 645332 : 3679.98 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	80.44	-59.30	-40.00	-19.30	1.24 V	186	54.07	-113.37
2	121.18	-53.10	-40.00	-13.10	1.76 V	59	57.08	-110.18
3	229.82	-56.30	-40.00	-16.30	2.21 V	108	54.16	-110.46
4	389.87	-65.60	-40.00	-25.60	1.72 V	156	39.50	-105.10
5	577.08	-61.00	-40.00	-21.00	1.94 V	56	39.58	-100.58
6	794.36	-54.40	-40.00	-14.40	2.21 V	108	42.31	-96.71

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.



7.8 Radiated Spurious Emissions above 1GHz

7.8.1 NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz)

1CC

RF Mode	NR n48 Channel Bandwidth: 10MHz	Channel	CH 637000 : 3555 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, 67% RH
Tested By	Karl Lee		

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	7110.00	-42.28	-40.00	-2.28	2.79 H	250	45.46	-87.74
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	7110.00	-42.35	-40.00	-2.35	1.53 V	285	45.39	-87.74

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 n48 Channel Bandwidth: 10MHz	Channel	CH 641666 : 3624.99 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, 67% RH
Tested By	Karl Lee		

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	7249.98	-41.73	-40.00	-1.73	2.46 H	240	45.83	-87.56
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	7249.98	-42.06	-40.00	-2.06	1.62 V	229	45.50	-87.56

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 n48 Channel Bandwidth: 10MHz	Channel	CH 646332 : 3694.98 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, 67% RH
Tested By	Karl Lee		

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	7389.96	-41.30	-40.00	-1.30	2.58 H	220	46.16	-87.46
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	7389.96	-41.75	-40.00	-1.75	1.98 V	219	45.71	-87.46

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.

RF Mode	NR n48 Channel Bandwidth: 20MHz	Channel	CH 637334 : 3560.01 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, 67% RH
Tested By	Karl Lee		

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	7120.02	-42.11	-40.00	-2.11	2.02 H	243	45.69	-87.80
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	7120.02	-42.26	-40.00	-2.26	1.34 V	243	45.54	-87.80

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 n48 Channel Bandwidth: 20MHz	Channel	CH 641666 : 3624.99 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, 67% RH
Tested By	Karl Lee		

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	7429.98	-41.73	-40.00	-1.73	2.31 H	268	45.66	-87.39
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	7429.98	-42.01	-40.00	-2.01	1.73 V	227	45.38	-87.39

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 n48 Channel Bandwidth: 20MHz	Channel	CH 646000 : 3690 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, 67% RH
Tested By	Karl Lee		

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	7380.00	-42.02	-40.00	-2.02	1.56 H	172	45.48	-87.50
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	7380.00	-42.29	-40.00	-2.29	1.45 V	274	45.21	-87.50

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 n48 Channel Bandwidth: 40MHz	Channel	CH 638000 : 3570 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, 67% RH
Tested By	Karl Lee		

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	7140.00	-42.14	-40.00	-2.14	2.15 H	237	45.76	-87.90
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	7140.00	-42.28	-40.00	-2.28	1.37 V	261	45.62	-87.90

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 n48 Channel Bandwidth: 40MHz	Channel	CH 641666 : 3624.99 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, 67% RH
Tested By	Karl Lee		

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	7249.98	-41.93	-40.00	-1.93	1.54 H	198	45.63	-87.56
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	7249.98	-42.13	-40.00	-2.13	1.67 V	288	45.43	-87.56

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 n48 Channel Bandwidth: 40MHz	Channel	CH 645332 : 3679.98 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, 67% RH
Tested By	Karl Lee		

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	7359.96	-41.79	-40.00	-1.79	2.21 H	248	45.79	-87.58
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	7359.96	-42.02	-40.00	-2.02	1.36 V	239	45.56	-87.58

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.

2CC

RF Mode	NR n48 Channel Bandwidth: 10MHz + 20MHz	Channel	CH 637000 : 3555 MHz + CH 638000 : 3570 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, 67% RH
Tested By	Karl Lee		

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	7110.00	-42.23	-40.00	-2.23	2.03 H	210	45.51	-87.74
2	7140.00	-42.49	-40.00	-2.49	2.48 H	176	45.41	-87.90
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	7110.00	-42.50	-40.00	-2.50	1.56 V	283	45.24	-87.74
2	7140.00	-42.75	-40.00	-2.75	1.14 V	153	45.15	-87.90

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 n48 Channel Bandwidth: 10MHz + 20MHz	Channel	CH 645000 : 3675 MHz + CH 646000 : 3690 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, 67% RH
Tested By	Karl Lee		

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	7350.00	-42.00	-40.00	-2.00	2.33 H	207	45.62	-87.62
2	7380.00	-42.08	-40.00	-2.08	2.71 H	244	45.42	-87.50
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	7350.00	-42.30	-40.00	-2.30	1.38 V	241	45.32	-87.62
2	7380.00	-42.32	-40.00	-2.32	1.27 V	165	45.18	-87.50

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 n48 Channel Bandwidth: 20MHz + 10MHz	Channel	CH 637334 : 3560.01 MHz + CH 638334 : 3575.01 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, 67% RH
Tested By	Karl Lee		

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	7120.02	-42.22	-40.00	-2.22	1.82 H	201	45.58	-87.80
2	7150.02	-42.60	-40.00	-2.60	2.62 H	178	45.36	-87.96
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	7120.02	-42.37	-40.00	-2.37	1.34 V	236	45.43	-87.80
2	7150.02	-42.74	-40.00	-2.74	1.48 V	126	45.22	-87.96

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 n48 Channel Bandwidth: 20MHz + 10MHz	Channel	CH 645332 : 3679.98 MHz + CH 646332 : 3694.98 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, 67% RH
Tested By	Karl Lee		

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	7359.96	-42.05	-40.00	-2.05	1.69 H	186	45.53	-87.58
2	7389.96	-42.07	-40.00	-2.07	2.48 H	180	45.39	-87.46
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	7359.96	-42.31	-40.00	-2.31	1.21 V	287	45.27	-87.58
2	7389.96	-42.34	-40.00	-2.34	1.36 V	162	45.12	-87.46

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.

RF Mode	NR n48 Channel Bandwidth: 20MHz + 20MHz	Channel	CH 637334 : 3560.01 MHz + CH 638668 : 3580.02 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, 67% RH
Tested By	Karl Lee		

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	7120.02	-42.17	-40.00	-2.17	2.50 H	237	45.63	-87.80
2	7160.04	-42.50	-40.00	-2.50	2.85 H	224	45.41	-87.91
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	7120.02	-42.46	-40.00	-2.46	1.16 V	287	45.34	-87.80
2	7160.04	-42.85	-40.00	-2.85	1.45 V	177	45.06	-87.91

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 n48 Channel Bandwidth: 20MHz + 20MHz	Channel	CH 644668 : 3670.02 MHz + CH 646000 : 3690 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, 67% RH
Tested By	Karl Lee		

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	7340.04	-41.95	-40.00	-1.95	1.47 H	194	45.66	-87.61
2	7380.00	-41.98	-40.00	-1.98	2.48 H	237	45.52	-87.50
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	7340.04	-42.20	-40.00	-2.20	1.38 V	243	45.41	-87.61
2	7380.00	-42.24	-40.00	-2.24	1.24 V	157	45.26	-87.50

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.

7.9 Frequency Stability

Environmental Conditions:	25°C, 60% RH	Tested By:	Noah Chang
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7.9.1 NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz)

1CC, Channel Bandwidth: 10 MHz, Ant.0

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 637000 (3555 MHz)		CH 646332 (3694.98 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
57	3554.999999	-0.000281	3694.980002	0.000541
48	3554.999998	-0.000563	3694.979998	-0.000541
40	3554.999997	-0.000844	3694.979998	-0.000541

Note: The applicant defined the normal working voltage is from 40 to 57 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 637000 (3555 MHz)		CH 646332 (3694.98 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3554.999996	-0.001125	3694.979997	-0.000812
-20	3554.999996	-0.001125	3694.979998	-0.000541
-10	3554.999999	-0.000281	3694.980003	0.000812
0	3555.000001	0.000281	3694.979996	-0.001083
10	3554.999999	-0.000281	3694.979997	-0.000812
20	3554.999998	-0.000563	3694.979996	-0.001083
30	3555.000002	0.000563	3694.979999	-0.000271
40	3555.000003	0.000844	3694.979996	-0.001083
50	3555.000004	0.001125	3694.980003	0.000812

1CC, Channel Bandwidth: 10 MHz, Ant.1

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 637000 (3555 MHz)		CH 646332 (3694.98 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
57	3554.999997	-0.000844	3694.979997	-0.000812
48	3555.000003	0.000844	3694.979999	-0.000271
40	3554.999997	-0.000844	3694.979997	-0.000812

Note: The applicant defined the normal working voltage is from 40 to 57 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 637000 (3555 MHz)		CH 646332 (3694.98 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3554.999998	-0.000563	3694.980003	0.000812
-20	3555.000001	0.000281	3694.980002	0.000541
-10	3555.000001	0.000281	3694.980001	0.000271
0	3554.999998	-0.000563	3694.980003	0.000812
10	3554.999999	-0.000281	3694.980002	0.000541
20	3554.999998	-0.000563	3694.979996	-0.001083
30	3554.999998	-0.000563	3694.979995	-0.001353
40	3555.000001	0.000281	3694.980002	0.000541
50	3554.999998	-0.000563	3694.980004	0.001083

1CC, Channel Bandwidth: 10 MHz, Ant.2

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 637000 (3555 MHz)		CH 646332 (3694.98 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
57	3555.000001	0.000281	3694.979997	-0.000812
48	3555.000004	0.001125	3694.979998	-0.000541
40	3555.000001	0.000281	3694.980001	0.000271

Note: The applicant defined the normal working voltage is from 40 to 57 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 637000 (3555 MHz)		CH 646332 (3694.98 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3554.999997	-0.000844	3694.980002	0.000541
-20	3554.999996	-0.001125	3694.980002	0.000541
-10	3554.999998	-0.000563	3694.979998	-0.000541
0	3555.000004	0.001125	3694.979997	-0.000812
10	3555.000004	0.001125	3694.979996	-0.001083
20	3554.999998	-0.000563	3694.979997	-0.000812
30	3555.000004	0.001125	3694.979998	-0.000541
40	3555.000002	0.000563	3694.980001	0.000271
50	3555.000003	0.000844	3694.979996	-0.001083

1CC, Channel Bandwidth: 10 MHz, Ant.3

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 637000 (3555 MHz)		CH 646332 (3694.98 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
57	3554.999998	-0.000563	3694.979996	-0.001083
48	3554.999998	-0.000563	3694.979999	-0.000271
40	3555.000002	0.000563	3694.980001	0.000271

Note: The applicant defined the normal working voltage is from 40 to 57 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 637000 (3555 MHz)		CH 646332 (3694.98 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3554.999998	-0.000563	3694.980003	0.000812
-20	3554.999998	-0.000563	3694.979997	-0.000812
-10	3554.999997	-0.000844	3694.980001	0.000271
0	3554.999998	-0.000563	3694.980002	0.000541
10	3554.999998	-0.000563	3694.979997	-0.000812
20	3554.999999	-0.000281	3694.979998	-0.000541
30	3555.000002	0.000563	3694.980001	0.000271
40	3555.000001	0.000281	3694.980001	0.000271
50	3555.000003	0.000844	3694.980001	0.000271

1CC, Channel Bandwidth: 20 MHz, Ant.0

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 637334 (3560.01 MHz)		CH 646000 (3690 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
57	3560.009998	-0.000562	3690.000003	0.000813
48	3560.010002	0.000562	3689.999998	-0.000542
40	3560.009996	-0.001124	3689.999999	-0.000271

Note: The applicant defined the normal working voltage is from 40 to 57 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 637334 (3560.01 MHz)		CH 646000 (3690 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3560.009997	-0.000843	3690.000002	0.000542
-20	3560.010003	0.000843	3690.000001	0.000271
-10	3560.009999	-0.000281	3690.000002	0.000542
0	3560.010001	0.000281	3690.000004	0.001084
10	3560.009999	-0.000281	3690.000003	0.000813
20	3560.009998	-0.000562	3689.999999	-0.000271
30	3560.010001	0.000281	3690.000002	0.000542
40	3560.009997	-0.000843	3690.000002	0.000542
50	3560.009998	-0.000562	3690.000002	0.000542

1CC, Channel Bandwidth: 20 MHz, Ant.1

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 637334 (3560.01 MHz)		CH 646000 (3690 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
57	3560.010002	0.000562	3689.999995	-0.001355
48	3560.009997	-0.000843	3689.999998	-0.000542
40	3560.009997	-0.000843	3690.000004	0.001084

Note: The applicant defined the normal working voltage is from 40 to 57 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 637334 (3560.01 MHz)		CH 646000 (3690 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3560.009995	-0.001404	3690.000004	0.001084
-20	3560.009997	-0.000843	3689.999996	-0.001084
-10	3560.009997	-0.000843	3690.000001	0.000271
0	3560.010005	0.001404	3690.000003	0.000813
10	3560.009995	-0.001404	3690.000001	0.000271
20	3560.009996	-0.001124	3690.000002	0.000542
30	3560.010005	0.001404	3689.999999	-0.000271
40	3560.010002	0.000562	3690.000004	0.001084
50	3560.010004	0.001124	3690.000002	0.000542

1CC, Channel Bandwidth: 20 MHz, Ant.2

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 637334 (3560.01 MHz)		CH 646000 (3690 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
57	3560.009997	-0.000843	3690.000002	0.000542
48	3560.010001	0.000281	3689.999996	-0.001084
40	3560.009997	-0.000843	3690.000002	0.000542

Note: The applicant defined the normal working voltage is from 40 to 57 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 637334 (3560.01 MHz)		CH 646000 (3690 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3560.010002	0.000562	3689.999996	-0.001084
-20	3560.009998	-0.000562	3690.000003	0.000813
-10	3560.010002	0.000562	3689.999998	-0.000542
0	3560.009998	-0.000562	3690.000001	0.000271
10	3560.010003	0.000843	3689.999998	-0.000542
20	3560.009999	-0.000281	3690.000004	0.001084
30	3560.009996	-0.001124	3689.999999	-0.000271
40	3560.009996	-0.001124	3689.999999	-0.000271
50	3560.010004	0.001124	3690.000004	0.001084

1CC, Channel Bandwidth: 20 MHz, Ant.3

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 637334 (3560.01 MHz)		CH 646000 (3690 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
57	3560.010002	0.000562	3689.999999	-0.000271
48	3560.009998	-0.000562	3690.000003	0.000813
40	3560.009999	-0.000281	3689.999998	-0.000542

Note: The applicant defined the normal working voltage is from 40 to 57 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 637334 (3560.01 MHz)		CH 646000 (3690 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3560.010002	0.000562	3689.999999	-0.000271
-20	3560.009998	-0.000562	3690.000003	0.000813
-10	3560.010003	0.000843	3689.999996	-0.001084
0	3560.010001	0.000281	3690.000004	0.001084
10	3560.010003	0.000843	3689.999998	-0.000542
20	3560.009998	-0.000562	3689.999996	-0.001084
30	3560.010004	0.001124	3690.000004	0.001084
40	3560.009997	-0.000843	3690.000001	0.000271
50	3560.010004	0.001124	3690.000002	0.000542

1CC, Channel Bandwidth: 40 MHz, Ant.0

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 638000 (3570 MHz)		CH 645332 (3679.98 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
57	3570.000002	0.000560	3679.980002	0.000543
48	3569.999999	-0.000280	3679.980001	0.000272
40	3569.999999	-0.000280	3679.979998	-0.000543

Note: The applicant defined the normal working voltage is from 40 to 57 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 638000 (3570 MHz)		CH 645332 (3679.98 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3570.000002	0.000560	3679.980004	0.001087
-20	3569.999996	-0.001120	3679.979997	-0.000815
-10	3570.000001	0.000280	3679.980001	0.000272
0	3570.000002	0.000560	3679.980003	0.000815
10	3569.999997	-0.000840	3679.979998	-0.000543
20	3570.000003	0.000840	3679.980002	0.000543
30	3569.999997	-0.000840	3679.980004	0.001087
40	3569.999998	-0.000560	3679.980002	0.000543
50	3570.000001	0.000280	3679.979998	-0.000543

1CC, Channel Bandwidth: 40 MHz, Ant.1

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 638000 (3570 MHz)		CH 645332 (3679.98 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
57	3569.999999	-0.000280	3679.979996	-0.001087
48	3570.000003	0.000840	3679.980004	0.001087
40	3569.999997	-0.000840	3679.979998	-0.000543

Note: The applicant defined the normal working voltage is from 40 to 57 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 638000 (3570 MHz)		CH 645332 (3679.98 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3570.000002	0.000560	3679.979996	-0.001087
-20	3569.999999	-0.000280	3679.979998	-0.000543
-10	3569.999997	-0.000840	3679.979996	-0.001087
0	3569.999998	-0.000560	3679.980004	0.001087
10	3570.000001	0.000280	3679.979999	-0.000272
20	3569.999999	-0.000280	3679.979998	-0.000543
30	3570.000002	0.000560	3679.980001	0.000272
40	3570.000001	0.000280	3679.979997	-0.000815
50	3569.999998	-0.000560	3679.980004	0.001087

1CC, Channel Bandwidth: 40 MHz, Ant.2

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 638000 (3570 MHz)		CH 645332 (3679.98 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
57	3569.999998	-0.000560	3679.980002	0.000543
48	3569.999998	-0.000560	3679.979997	-0.000815
40	3569.999997	-0.000840	3679.979998	-0.000543

Note: The applicant defined the normal working voltage is from 40 to 57 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 638000 (3570 MHz)		CH 645332 (3679.98 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3569.999998	-0.000560	3679.980004	0.001087
-20	3570.000002	0.000561	3679.979997	-0.000815
-10	3570.000001	0.000281	3679.980002	0.000543
0	3570.000002	0.000561	3679.980004	0.001087
10	3570.000004	0.001122	3679.979997	-0.000815
20	3569.999999	-0.000281	3679.979998	-0.000543
30	3570.000003	0.000842	3679.979996	-0.001087
40	3570.000003	0.000842	3679.979998	-0.000543
50	3569.999997	-0.000842	3679.980003	0.000815

1CC, Channel Bandwidth: 40 MHz, Ant.3

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 638000 (3570 MHz)		CH 645332 (3679.98 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
57	3570.000021	0.005882	3679.979999	-0.000272
48	3570.000003	0.000840	3679.979999	-0.000272
40	3570.000002	0.000560	3679.980002	0.000543

Note: The applicant defined the normal working voltage is from 40 to 57 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 638000 (3570 MHz)		CH 645332 (3679.98 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3569.999997	-0.000840	3679.979998	-0.000543
-20	3569.999996	-0.001120	3679.979998	-0.000543
-10	3570.000003	0.000840	3679.980003	0.000815
0	3570.000001	0.000280	3679.979999	-0.000272
10	3569.999998	-0.000560	3679.979996	-0.001087
20	3569.999998	-0.000560	3679.979996	-0.001087
30	3570.000002	0.000560	3679.979997	-0.000815
40	3569.999997	-0.000840	3679.979999	-0.000272
50	3570.000003	0.000840	3679.979998	-0.000543

2CC, Channel Bandwidth: 10 MHz + 20 MHz, Ant.0

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 637000 + CH 638000 (3555 MHz + 3570 MHz)		CH 645000 + CH 646000 (3675 MHz + 3690 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
57	3555.000002	0.000563	3690.000002	0.000542
48	3554.999999	-0.000281	3689.999999	-0.000271
40	3555.000001	0.000281	3690.000003	0.000813

Note: The applicant defined the normal working voltage is from 40 to 57 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 637000 + CH 638000 (3555 MHz + 3570 MHz)		CH 645000 + CH 646000 (3675 MHz + 3690 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3554.999998	-0.000563	3689.999998	-0.000542
-20	3555.000001	0.000281	3689.999999	-0.000271
-10	3555.000003	0.000844	3690.000003	0.000813
0	3555.000002	0.000563	3690.000002	0.000542
10	3554.999999	-0.000281	3689.999999	-0.000271
20	3554.999999	-0.000281	3690.000002	0.000542
30	3555.000003	0.000844	3690.000002	0.000542
40	3555.000002	0.000563	3689.999999	-0.000271
50	3555.000001	0.000281	3689.999999	-0.000271

2CC, Channel Bandwidth: 10 MHz + 20 MHz, Ant.1

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 637000 + CH 638000 (3555 MHz + 3570 MHz)		CH 645000 + CH 646000 (3675 MHz + 3690 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
57	3555.000001	0.000281	3689.999997	-0.000813
48	3554.999998	-0.000563	3690.000002	0.000542
40	3555.000001	0.000281	3690.000001	0.000271

Note: The applicant defined the normal working voltage is from 40 to 57 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 637000 + CH 638000 (3555 MHz + 3570 MHz)		CH 645000 + CH 646000 (3675 MHz + 3690 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3554.999998	-0.000563	3690.000002	0.000542
-20	3555.000001	0.000281	3689.999999	-0.000271
-10	3555.000001	0.000281	3690.000002	0.000542
0	3555.000001	0.000281	3689.999997	-0.000813
10	3555.000003	0.000844	3689.999999	-0.000271
20	3555.000002	0.000563	3689.999997	-0.000813
30	3555.000001	0.000281	3689.999999	-0.000271
40	3554.999998	-0.000563	3689.999998	-0.000542
50	3554.999997	-0.000844	3690.000003	0.000813

2CC, Channel Bandwidth: 10 MHz + 20 MHz, Ant.2

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 637000 + CH 638000 (3555 MHz + 3570 MHz)		CH 645000 + CH 646000 (3675 MHz + 3690 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
57	3555.000002	0.000563	3689.999998	-0.000542
48	3554.999999	-0.000281	3690.000001	0.000271
40	3555.000002	0.000563	3690.000003	0.000813

Note: The applicant defined the normal working voltage is from 40 to 57 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 637000 + CH 638000 (3555 MHz + 3570 MHz)		CH 645000 + CH 646000 (3675 MHz + 3690 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3555.000002	0.000563	3690.000001	0.000271
-20	3555.000001	0.000281	3689.999998	-0.000542
-10	3554.999999	-0.000281	3689.999999	-0.000271
0	3554.999998	-0.000563	3689.999997	-0.000813
10	3554.999997	-0.000844	3689.999996	-0.001084
20	3554.999999	-0.000281	3689.999999	-0.000271
30	3554.999998	-0.000563	3689.999998	-0.000542
40	3555.000002	0.000563	3689.999999	-0.000271
50	3555.000001	0.000281	3689.999997	-0.000813

2CC, Channel Bandwidth: 10 MHz + 20 MHz, Ant.3

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 637000 + CH 638000 (3555 MHz + 3570 MHz)		CH 645000 + CH 646000 (3675 MHz + 3690 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
57	3554.999998	-0.000563	3689.999997	-0.000813
48	3554.999999	-0.000281	3689.999998	-0.000542
40	3554.999998	-0.000563	3689.999998	-0.000542

Note: The applicant defined the normal working voltage is from 40 to 57 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 637000 + CH 638000 (3555 MHz + 3570 MHz)		CH 645000 + CH 646000 (3675 MHz + 3690 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3554.999998	-0.000563	3689.999997	-0.000813
-20	3554.999999	-0.000281	3689.999999	-0.000271
-10	3555.000003	0.000844	3690.000002	0.000542
0	3555.000003	0.000844	3689.999998	-0.000542
10	3554.999999	-0.000281	3689.999997	-0.000813
20	3554.999998	-0.000563	3689.999999	-0.000271
30	3554.999997	-0.000844	3689.999997	-0.000813
40	3554.999996	-0.001125	3689.999998	-0.000542
50	3554.999998	-0.000563	3689.999998	-0.000542

2CC, Channel Bandwidth: 20 MHz + 10 MHz, Ant.0

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 637334 + CH 638334 (3560.01 MHz + 3575.01 MHz)		CH 645332 + CH 646332 (3679.98 MHz + 3694.98 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
57	3560.009997	-0.000843	3694.979998	-0.000541
48	3560.009999	-0.000281	3694.979999	-0.000271
40	3560.009998	-0.000562	3694.979997	-0.000812

Note: The applicant defined the normal working voltage is from 40 to 57 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 637334 + CH 638334 (3560.01 MHz + 3575.01 MHz)		CH 645332 + CH 646332 (3679.98 MHz + 3694.98 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3560.009998	-0.000562	3694.980001	0.000271
-20	3560.010001	0.000281	3694.980003	0.000812
-10	3560.010002	0.000562	3694.980001	0.000271
0	3560.010003	0.000843	3694.980003	0.000812
10	3560.009999	-0.000281	3694.980002	0.000541
20	3560.009997	-0.000843	3694.979999	-0.000271
30	3560.010002	0.000562	3694.979997	-0.000812
40	3560.009996	-0.001124	3694.979998	-0.000541
50	3560.009999	-0.000281	3694.980001	0.000271

2CC, Channel Bandwidth: 20 MHz + 10 MHz, Ant.1

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 637334 + CH 638334 (3560.01 MHz + 3575.01 MHz)		CH 645332 + CH 646332 (3679.98 MHz + 3694.98 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
57	3560.009999	-0.000281	3694.979996	-0.001083
48	3560.010002	0.000562	3694.979998	-0.000541
40	3560.009996	-0.001124	3694.979997	-0.000812

Note: The applicant defined the normal working voltage is from 40 to 57 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 637334 + CH 638334 (3560.01 MHz + 3575.01 MHz)		CH 645332 + CH 646332 (3679.98 MHz + 3694.98 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3560.010003	0.000843	3694.979997	-0.000812
-20	3560.009999	-0.000281	3694.979998	-0.000541
-10	3560.010003	0.000843	3694.980002	0.000541
0	3560.010003	0.000843	3694.980001	0.000271
10	3560.010001	0.000281	3694.980003	0.000812
20	3560.009998	-0.000562	3694.979999	-0.000271
30	3560.009998	-0.000562	3694.979998	-0.000541
40	3560.009997	-0.000843	3694.980003	0.000812
50	3560.010001	0.000281	3694.979999	-0.000271

2CC, Channel Bandwidth: 20 MHz + 10 MHz, Ant.2

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 637334 + CH 638334 (3560.01 MHz + 3575.01 MHz)		CH 645332 + CH 646332 (3679.98 MHz + 3694.98 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
57	3560.009999	-0.000281	3694.980001	0.000271
48	3560.010002	0.000562	3694.979998	-0.000541
40	3560.009998	-0.000562	3694.980003	0.000812

Note: The applicant defined the normal working voltage is from 40 to 57 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 637334 + CH 638334 (3560.01 MHz + 3575.01 MHz)		CH 645332 + CH 646332 (3679.98 MHz + 3694.98 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3560.010001	0.000281	3694.979997	-0.000812
-20	3560.010003	0.000843	3694.980002	0.000541
-10	3560.010002	0.000562	3694.979999	-0.000271
0	3560.009999	-0.000281	3694.980002	0.000541
10	3560.010003	0.000843	3694.980002	0.000541
20	3560.009998	-0.000562	3694.979996	-0.001083
30	3560.010003	0.000843	3694.979999	-0.000271
40	3560.009997	-0.000843	3694.979997	-0.000812
50	3560.010002	0.000562	3694.979998	-0.000541

2CC, Channel Bandwidth: 20 MHz + 10 MHz, Ant.3

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 637334 + CH 638334 (3560.01 MHz + 3575.01 MHz)		CH 645332 + CH 646332 (3679.98 MHz + 3694.98 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
57	3560.010001	0.000281	3694.979998	-0.000541
48	3560.009998	-0.000562	3694.979999	-0.000271
40	3560.009997	-0.000843	3694.979997	-0.000812

Note: The applicant defined the normal working voltage is from 40 to 57 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 637334 + CH 638334 (3560.01 MHz + 3575.01 MHz)		CH 645332 + CH 646332 (3679.98 MHz + 3694.98 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3560.010001	0.000281	3694.979998	-0.000541
-20	3560.009997	-0.000843	3694.980001	0.000271
-10	3560.010001	0.000281	3694.979997	-0.000812
0	3560.010002	0.000562	3694.980003	0.000812
10	3560.010001	0.000281	3694.979999	-0.000271
20	3560.009997	-0.000843	3694.979998	-0.000541
30	3560.009999	-0.000281	3694.980003	0.000812
40	3560.009998	-0.000562	3694.980002	0.000541
50	3560.010003	0.000843	3694.980001	0.000271

2CC, Channel Bandwidth: 20 MHz + 20 MHz, Ant.0

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 637334 + CH 638668 (3560.01 MHz + 3580.02 MHz)		CH 644668 + CH 646000 (3670.02 MHz + 3690 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
57	3560.010002	0.000562	3689.999999	-0.000271
48	3560.010001	0.000281	3690.000003	0.000813
40	3560.009997	-0.000843	3689.999998	-0.000542

Note: The applicant defined the normal working voltage is from 40 to 57 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 637334 + CH 638668 (3560.01 MHz + 3580.02 MHz)		CH 644668 + CH 646000 (3670.02 MHz + 3690 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3560.010003	0.000843	3690.000003	0.000813
-20	3560.010001	0.000281	3689.999999	-0.000271
-10	3560.009997	-0.000843	3690.000002	0.000542
0	3560.009999	-0.000281	3690.000003	0.000813
10	3560.009998	-0.000562	3689.999999	-0.000271
20	3560.010002	0.000562	3690.000001	0.000271
30	3560.010001	0.000281	3690.000001	0.000271
40	3560.009997	-0.000843	3690.000002	0.000542
50	3560.009999	-0.000281	3690.000003	0.000813

2CC, Channel Bandwidth: 20 MHz + 20 MHz, Ant.1

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 637334 + CH 638668 (3560.01 MHz + 3580.02 MHz)		CH 644668 + CH 646000 (3670.02 MHz + 3690 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
57	3560.010001	0.000281	3689.999997	-0.000813
48	3560.010002	0.000562	3690.000002	0.000542
40	3560.009998	-0.000562	3689.999999	-0.000271

Note: The applicant defined the normal working voltage is from 40 to 57 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 637334 + CH 638668 (3560.01 MHz + 3580.02 MHz)		CH 644668 + CH 646000 (3670.02 MHz + 3690 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3560.010001	0.000281	3689.999998	-0.000542
-20	3560.009999	-0.000281	3689.999999	-0.000271
-10	3560.010000	0.000000	3689.999997	-0.000813
0	3560.010002	0.000562	3690.000003	0.000813
10	3560.009997	-0.000843	3690.000002	0.000542
20	3560.009999	-0.000281	3690.000002	0.000542
30	3560.010003	0.000843	3690.000003	0.000813
40	3560.010003	0.000843	3689.999999	-0.000271
50	3560.009999	-0.000281	3689.999996	-0.001084

2CC, Channel Bandwidth: 20 MHz + 20 MHz, Ant.2

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 637334 + CH 638668 (3560.01 MHz + 3580.02 MHz)		CH 644668 + CH 646000 (3670.02 MHz + 3690 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
57	3560.010002	0.000562	3689.999999	-0.000271
48	3560.009999	-0.000281	3689.999998	-0.000542
40	3560.009996	-0.001124	3689.999997	-0.000813

Note: The applicant defined the normal working voltage is from 40 to 57 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 637334 + CH 638668 (3560.01 MHz + 3580.02 MHz)		CH 644668 + CH 646000 (3670.02 MHz + 3690 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3560.009997	-0.000843	3690.000002	0.000542
-20	3560.010001	0.000281	3689.999999	-0.000271
-10	3560.010001	0.000281	3689.999997	-0.000813
0	3560.010002	0.000562	3690.000003	0.000813
10	3560.009998	-0.000562	3689.999999	-0.000271
20	3560.009996	-0.001124	3689.999998	-0.000542
30	3560.009997	-0.000843	3689.999999	-0.000271
40	3560.009998	-0.000562	3689.999997	-0.000813
50	3560.009998	-0.000562	3689.999999	-0.000271

2CC, Channel Bandwidth: 20 MHz + 20 MHz, Ant.3

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 637334 + CH 638668 (3560.01 MHz + 3580.02 MHz)		CH 644668 + CH 646000 (3670.02 MHz + 3690 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
57	3560.010002	0.000562	3689.999998	-0.000542
48	3560.010001	0.000281	3689.999997	-0.000813
40	3560.010004	0.001124	3690.000002	0.000542

Note: The applicant defined the normal working voltage is from 40 to 57 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 637334 + CH 638668 (3560.01 MHz + 3580.02 MHz)		CH 644668 + CH 646000 (3670.02 MHz + 3690 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3560.009998	-0.000562	3689.999997	-0.000813
-20	3560.009999	-0.000281	3689.999999	-0.000271
-10	3560.009997	-0.000843	3689.999998	-0.000542
0	3560.009998	-0.000562	3689.999998	-0.000542
10	3560.009999	-0.000281	3689.999999	-0.000271
20	3560.009997	-0.000843	3689.999999	-0.000271
30	3560.009999	-0.000281	3689.999998	-0.000542
40	3560.010002	0.000562	3689.999997	-0.000813
50	3560.009997	-0.000843	3689.999999	-0.000271

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:

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

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