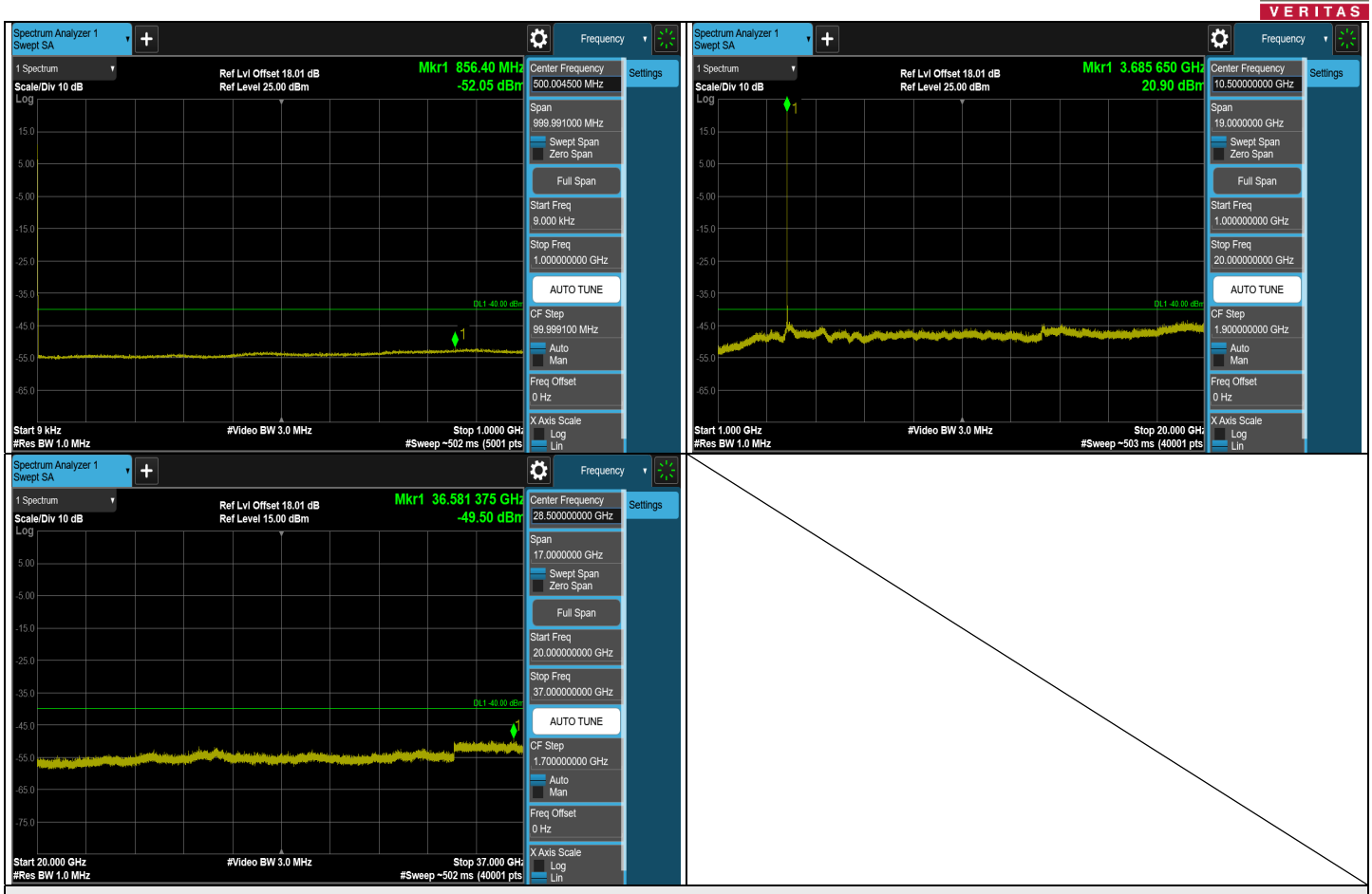
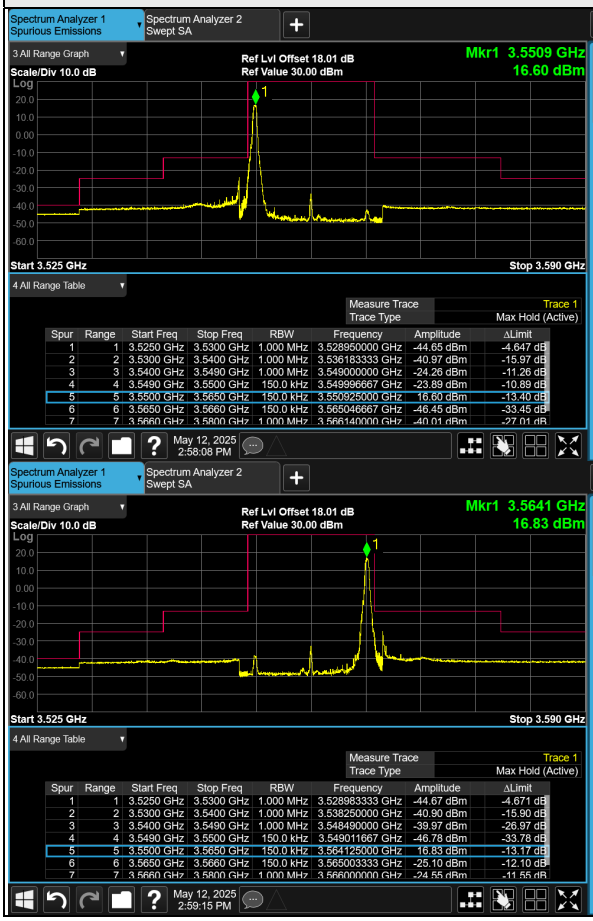


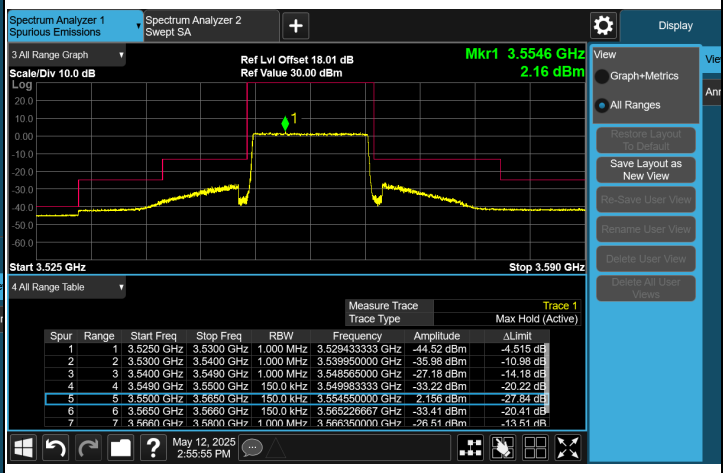
BPSKCH 646166 (3692.49 MHz)

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

NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), MIMO-Ant 2, Channel Bandwidth: 15 MHz

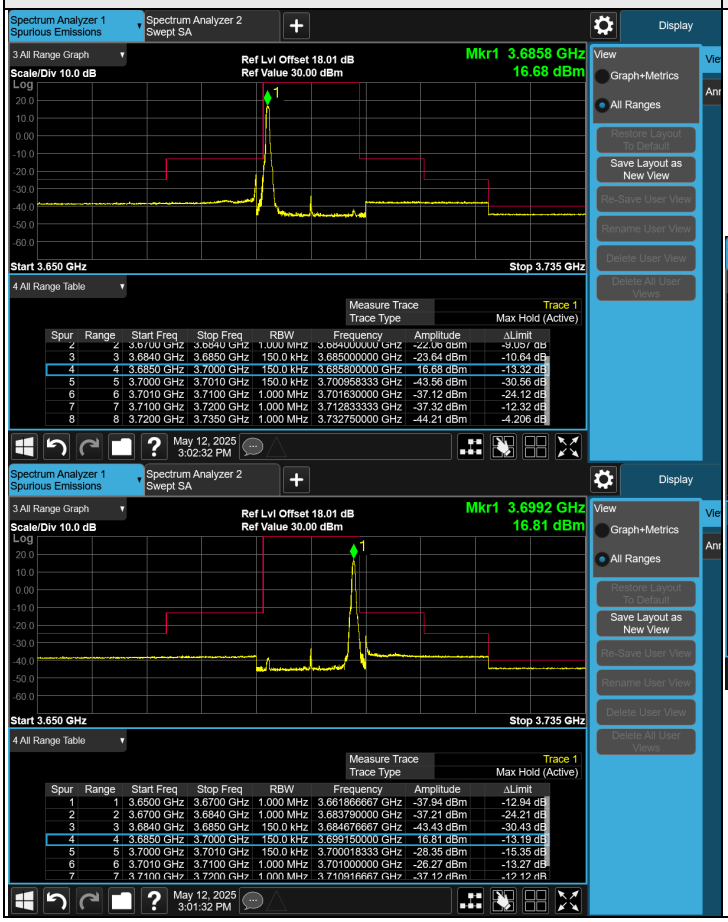
CH 637168 (3557.52 MHz)	
1 RB	FULL RB





CH 646166 (3692.49 MHz)

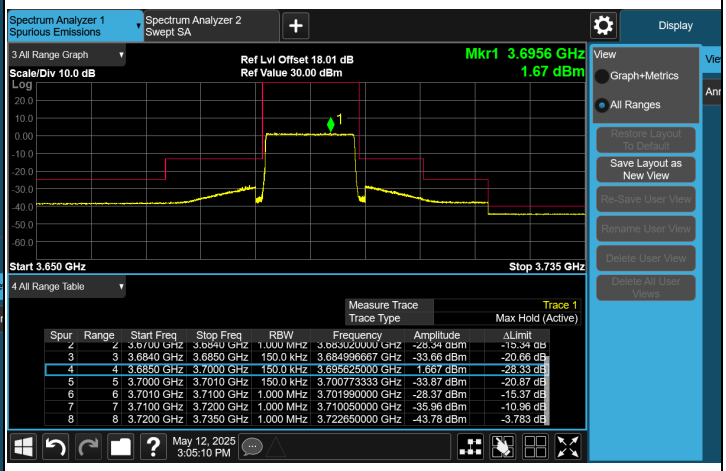
1 RB



Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	ΔLimit
2	2	3.6700 GHz	3.6840 GHz	1.000 MHz	3.684000000 GHz	-22.06 dBm	-9.057 dB
3	3	3.6840 GHz	3.6850 GHz	150.0 kHz	3.685000000 GHz	-23.64 dBm	-10.64 dB
4	4	3.6850 GHz	3.7000 GHz	150.0 kHz	3.685800000 GHz	16.68 dBm	-13.32 dB
5	5	3.7000 GHz	3.7010 GHz	150.0 kHz	3.700958333 GHz	-43.56 dBm	-30.56 dB
6	6	3.7010 GHz	3.7100 GHz	1.000 MHz	3.701630000 GHz	-37.12 dBm	-24.12 dB
7	7	3.7100 GHz	3.7200 GHz	1.000 MHz	3.712833333 GHz	-37.32 dBm	-12.32 dB
8	8	3.7200 GHz	3.7350 GHz	1.000 MHz	3.732750000 GHz	-44.21 dBm	-4.206 dB

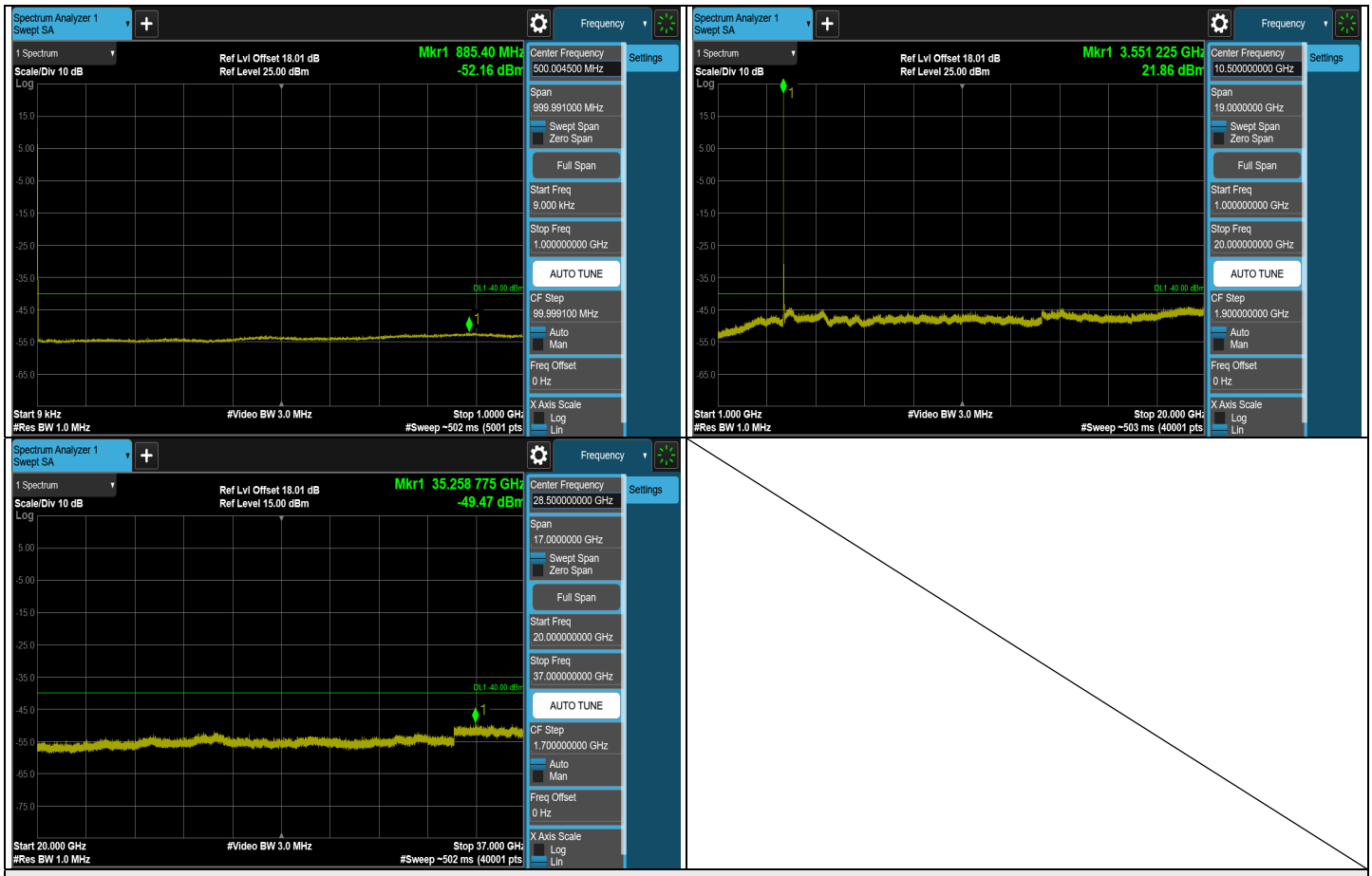
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	ΔLimit
1	1	3.6500 GHz	3.6700 GHz	1.000 MHz	3.661866667 GHz	-37.94 dBm	-12.94 dB
2	2	3.6700 GHz	3.6840 GHz	1.000 MHz	3.683790000 GHz	-37.21 dBm	-24.21 dB
3	3	3.6840 GHz	3.6850 GHz	150.0 kHz	3.684676667 GHz	-43.43 dBm	-30.43 dB
4	4	3.6850 GHz	3.7000 GHz	150.0 kHz	3.699150000 GHz	16.81 dBm	-13.19 dB
5	5	3.7000 GHz	3.7010 GHz	150.0 kHz	3.700018333 GHz	-28.35 dBm	-15.35 dB
6	6	3.7010 GHz	3.7100 GHz	1.000 MHz	3.701000000 GHz	-26.27 dBm	-13.27 dB
7	7	3.7100 GHz	3.7200 GHz	1.000 MHz	3.710816667 GHz	-37.12 dBm	-12.12 dB

FULL RB

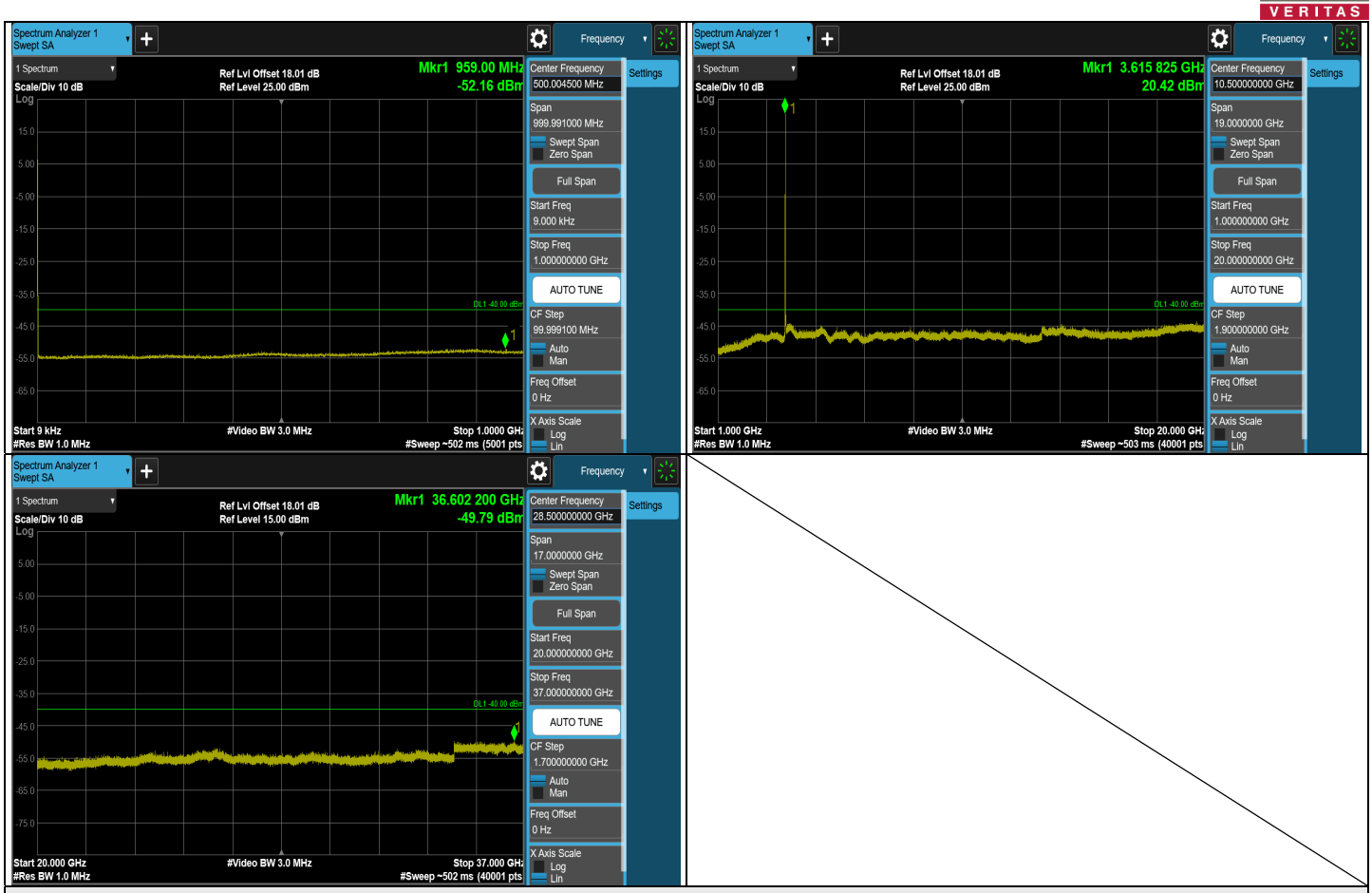


Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	ΔLimit
2	2	3.6700 GHz	3.6840 GHz	1.000 MHz	3.683020000 GHz	-26.34 dBm	-15.34 dB
3	3	3.6840 GHz	3.6850 GHz	150.0 kHz	3.684996667 GHz	-33.66 dBm	-20.66 dB
4	4	3.6850 GHz	3.7000 GHz	150.0 kHz	3.695625000 GHz	1.667 dBm	-28.33 dB
5	5	3.7000 GHz	3.7010 GHz	150.0 kHz	3.700773333 GHz	-33.87 dBm	-20.87 dB
6	6	3.7010 GHz	3.7100 GHz	1.000 MHz	3.701990000 GHz	-28.37 dBm	-16.37 dB
7	7	3.7100 GHz	3.7200 GHz	1.000 MHz	3.710050000 GHz	-35.96 dBm	-10.96 dB
8	8	3.7200 GHz	3.7350 GHz	1.000 MHz	3.722650000 GHz	-43.78 dBm	-3.783 dB

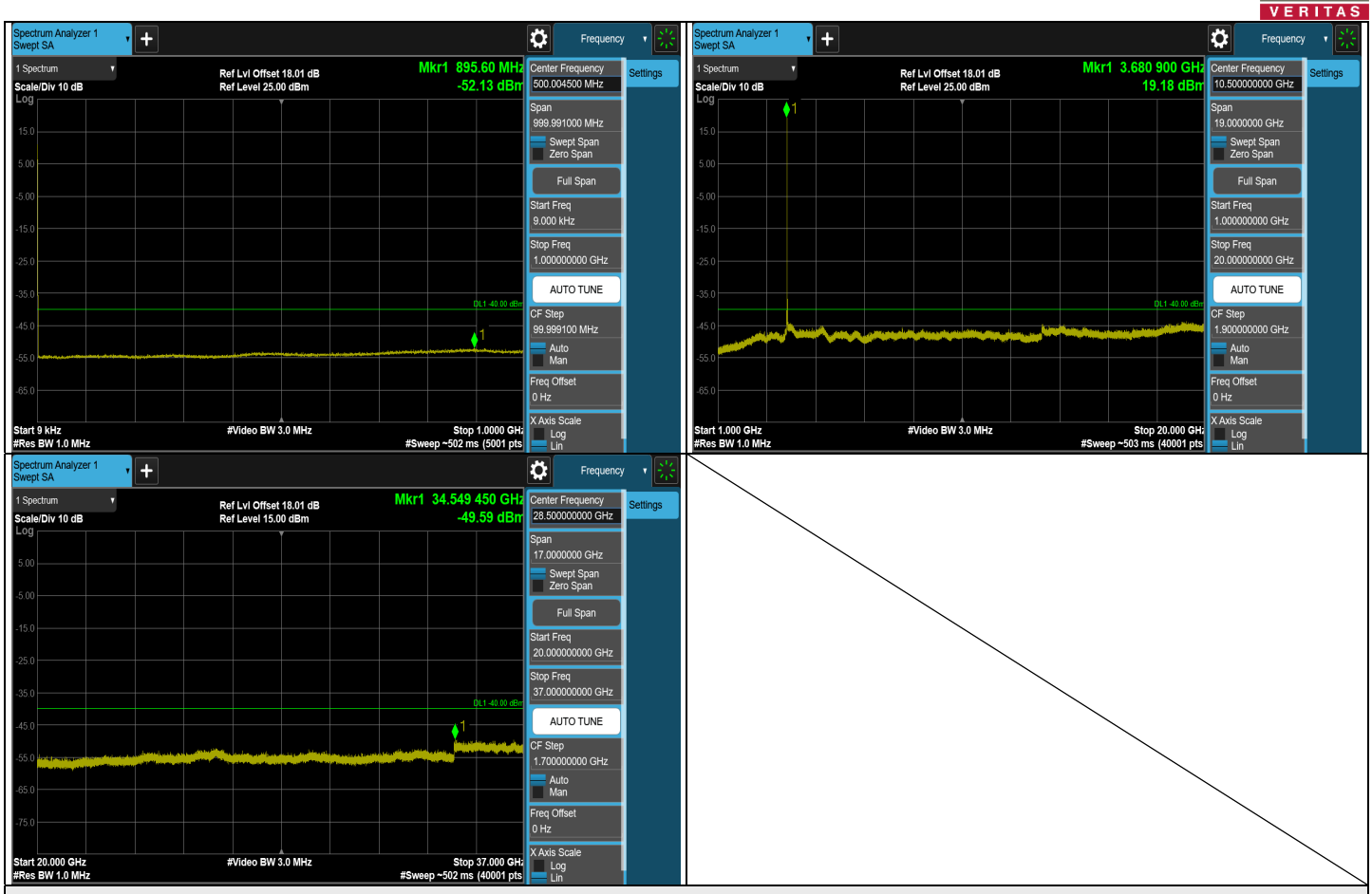
NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), MIMO-Ant 2, Channel Bandwidth: 20 MHz



BPSKCH 637334 (3560.01 MHz)



BPSKCH 641666 (3624.99 MHz)

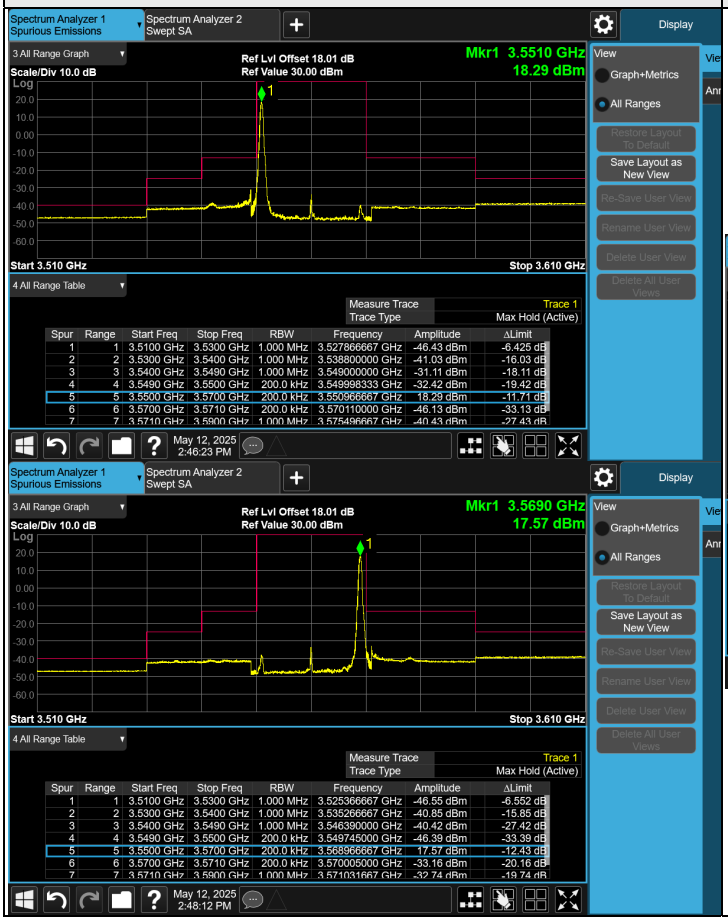


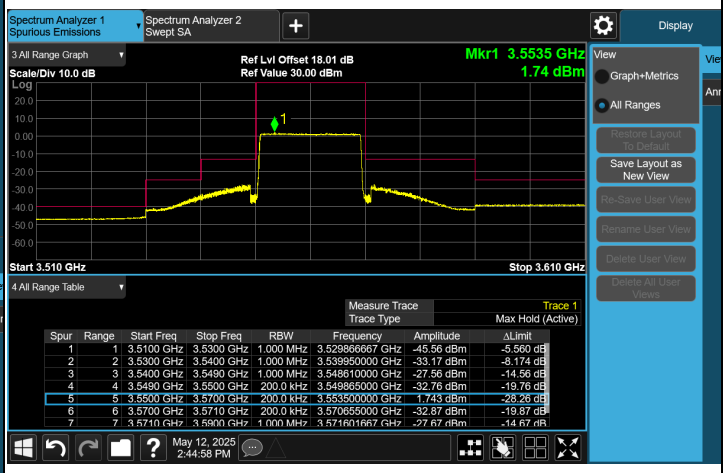
BPSKCH 646000 (3690 MHz)

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

NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), MIMO-Ant 2, Channel Bandwidth: 20 MHz

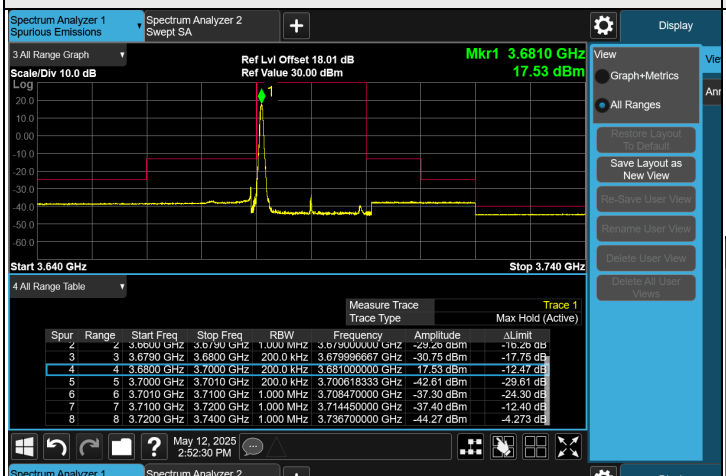
CH 637334 (3560.01 MHz)	
1 RB	FULL RB

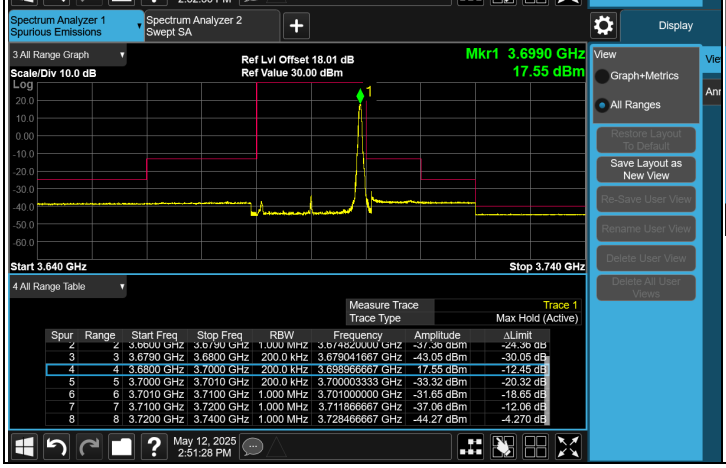




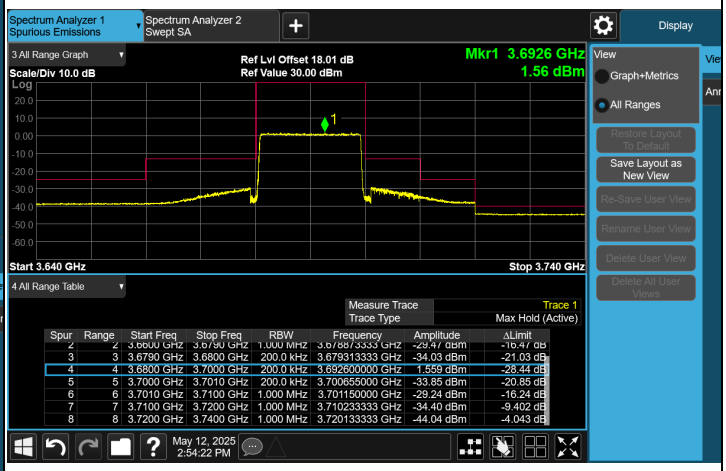
CH 646000 (3690 MHz)

1 RB

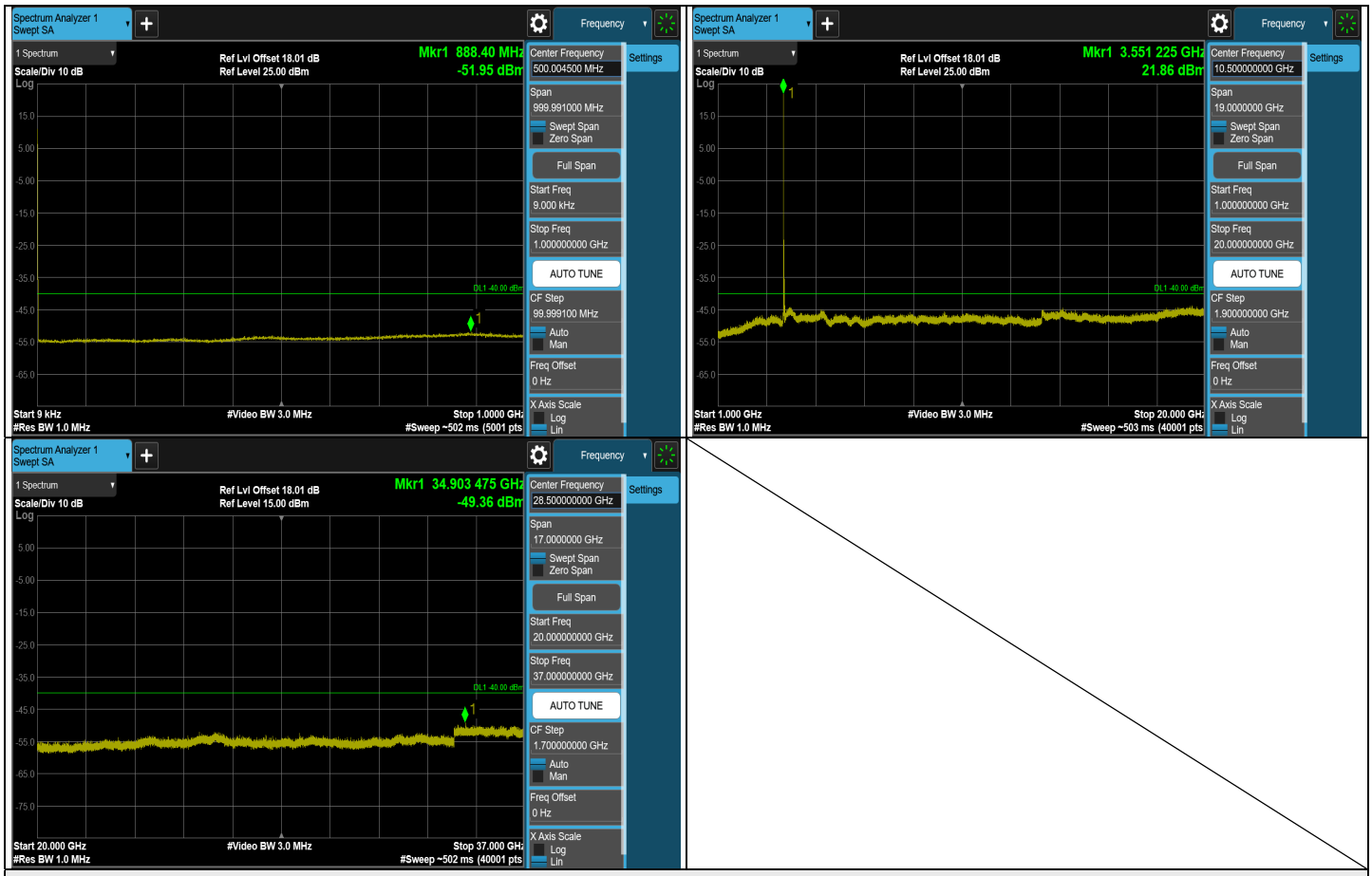




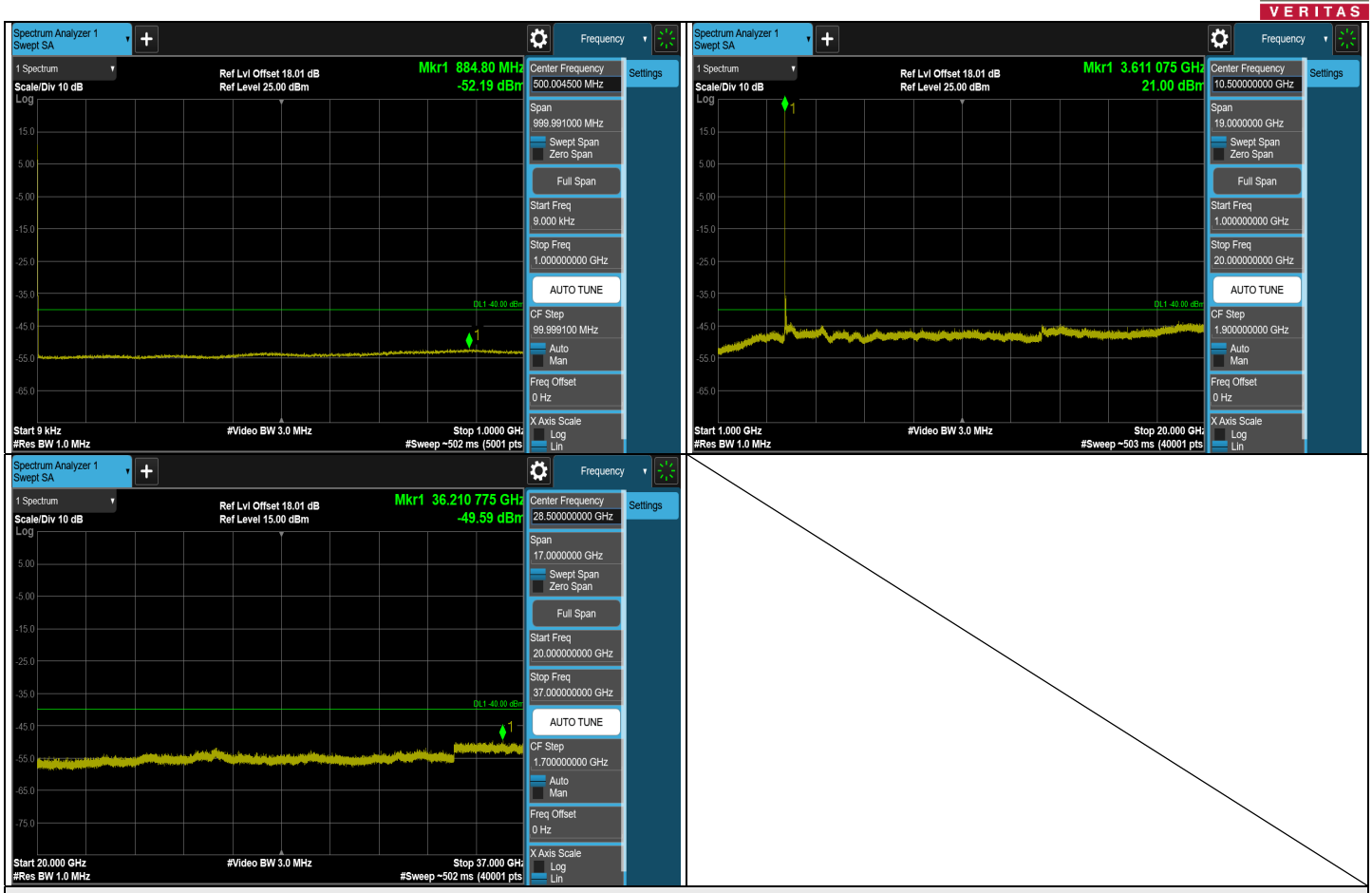
FULL RB



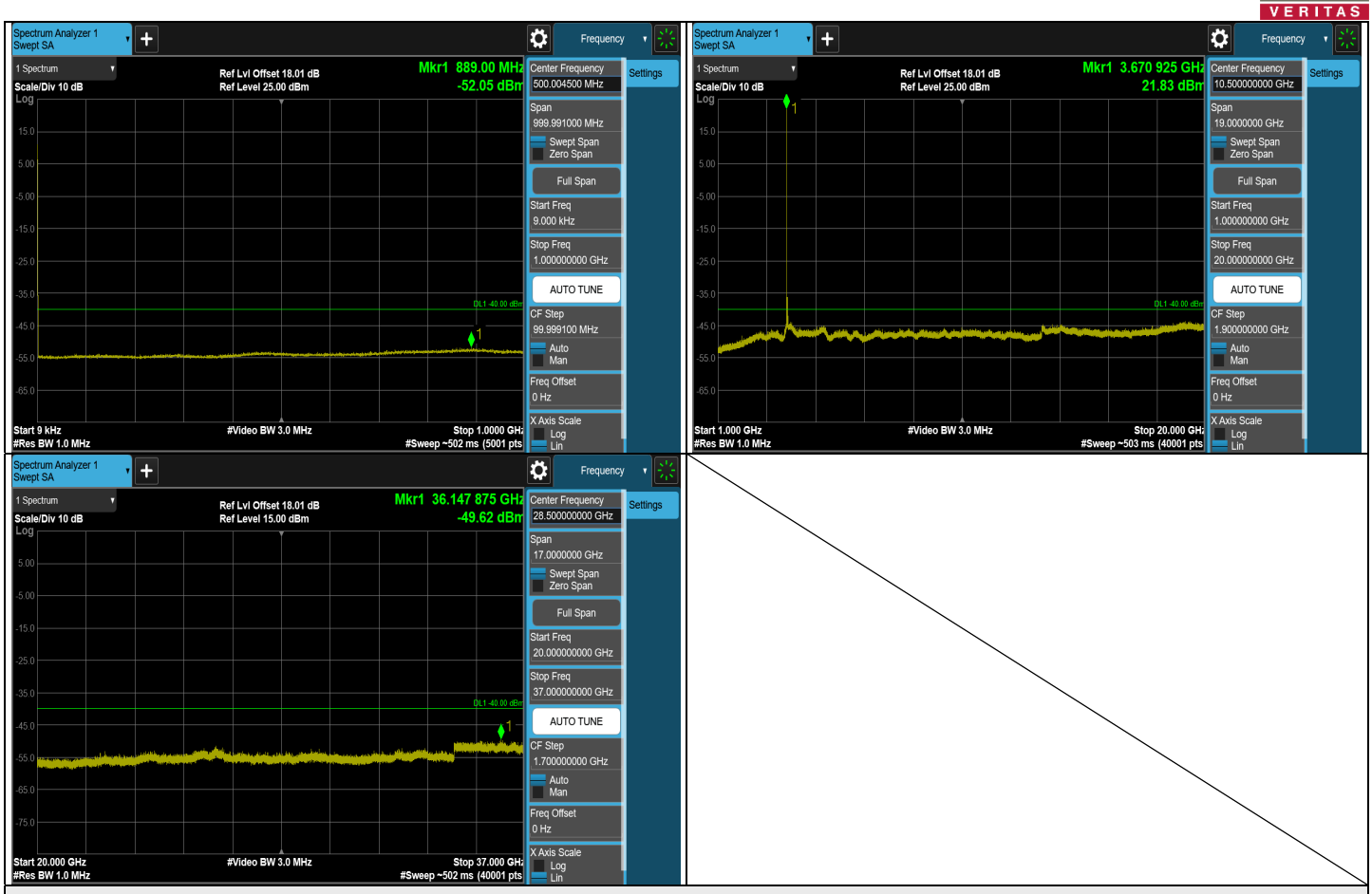
NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), MIMO-Ant 2, Channel Bandwidth: 30 MHz



BPSKCH 637668 (3565.02 MHz)



BPSKCH 641666 (3624.99 MHz)

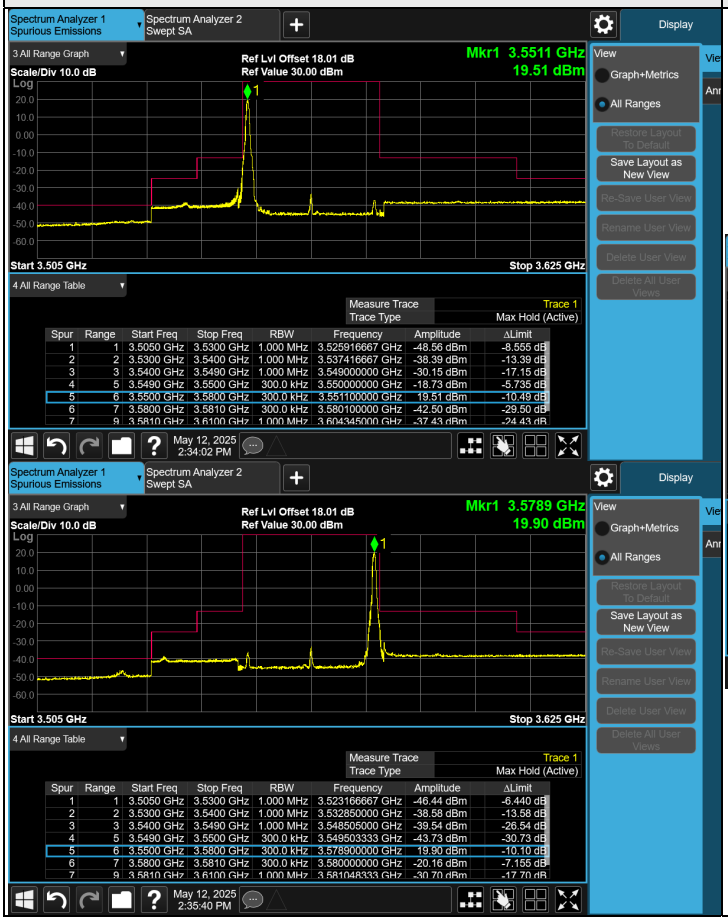


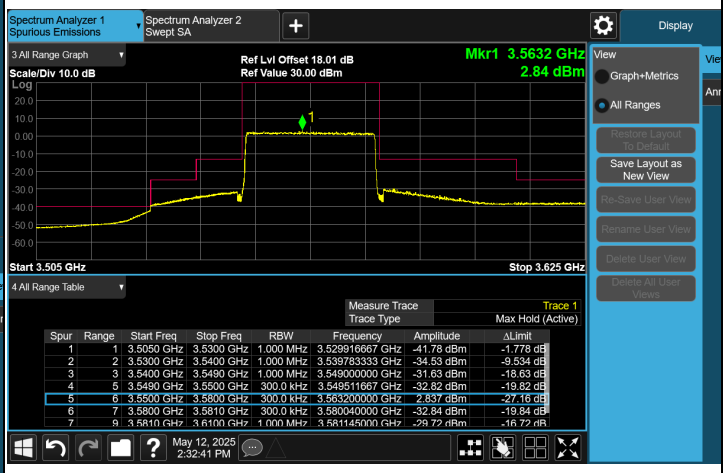
BPSKCH 645666 (3684.99 MHz)

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

NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), MIMO-Ant 2, Channel Bandwidth: 30 MHz

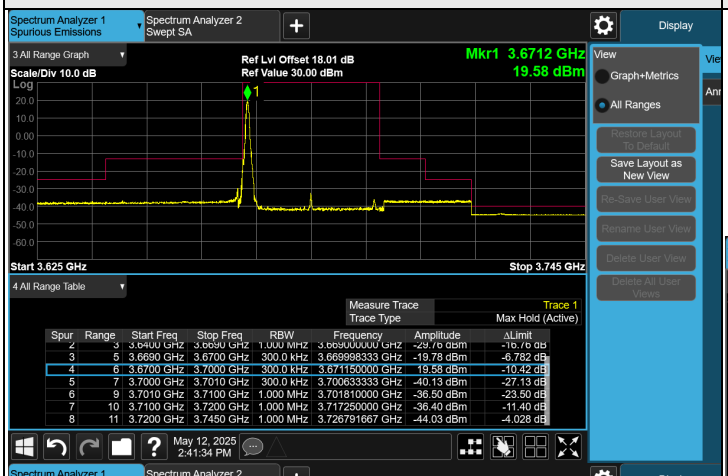
CH 637668 (3565.02 MHz)	
1 RB	FULL RB

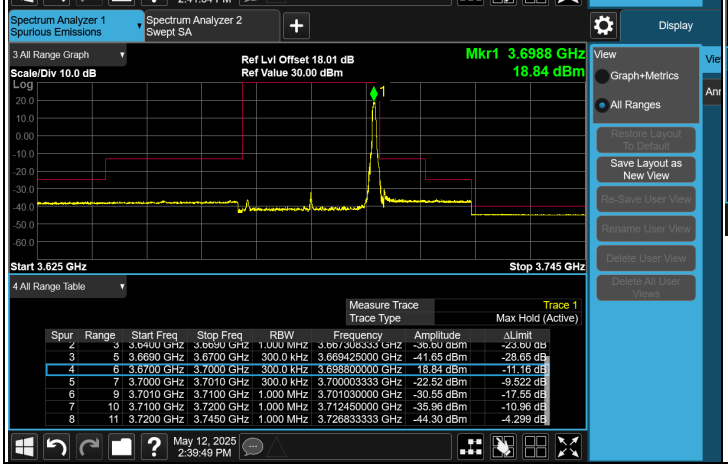




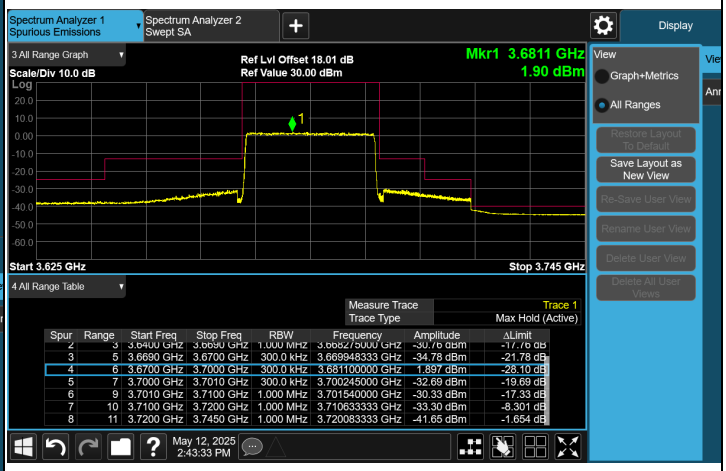
CH 645666 (3684.99 MHz)

1 RB

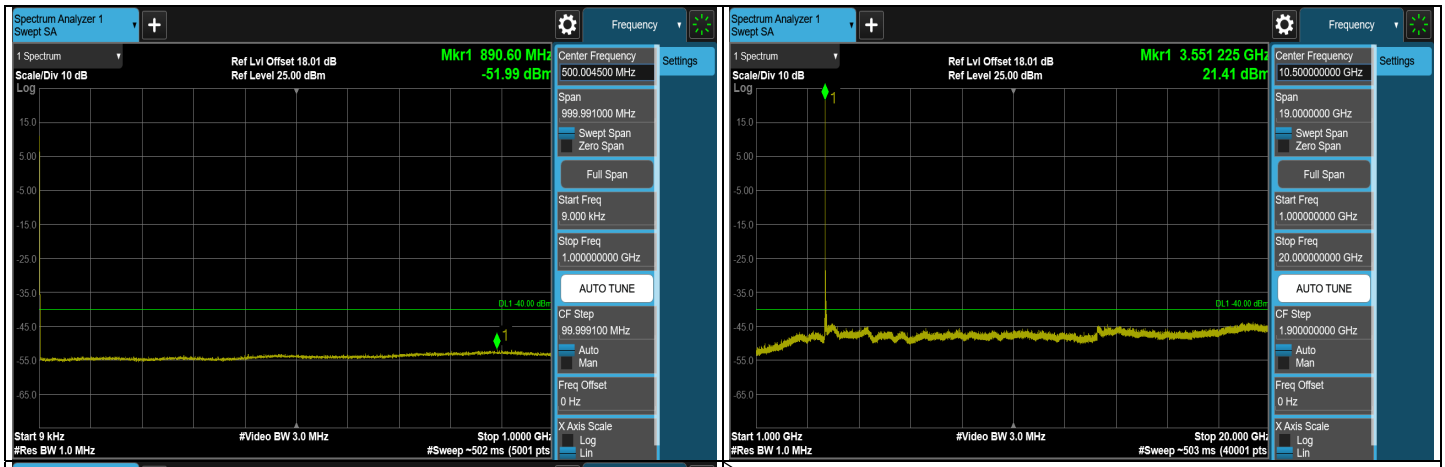


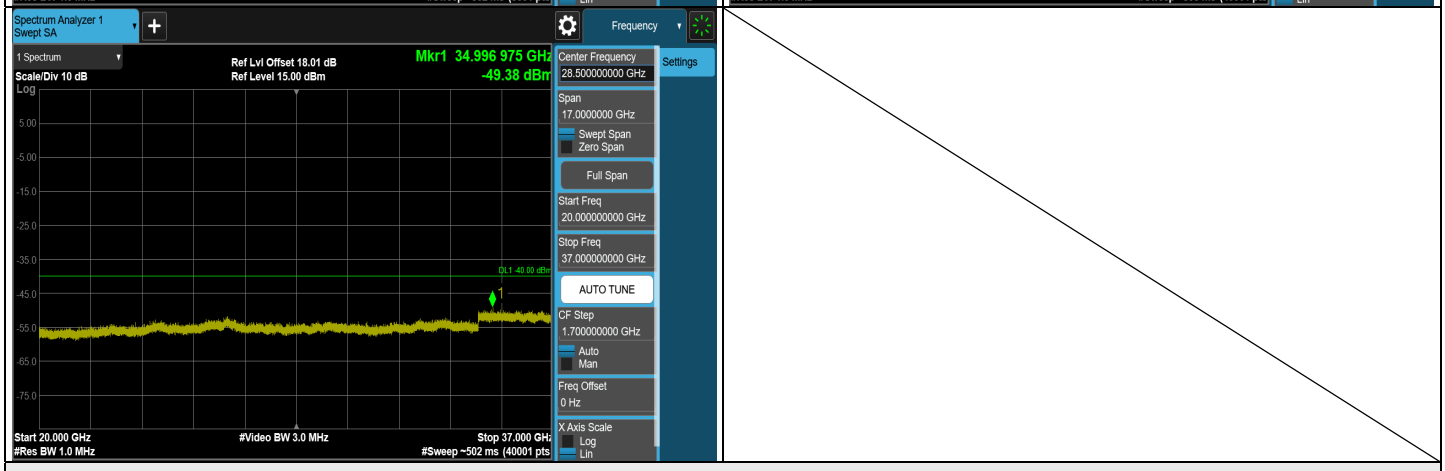


FULL RB

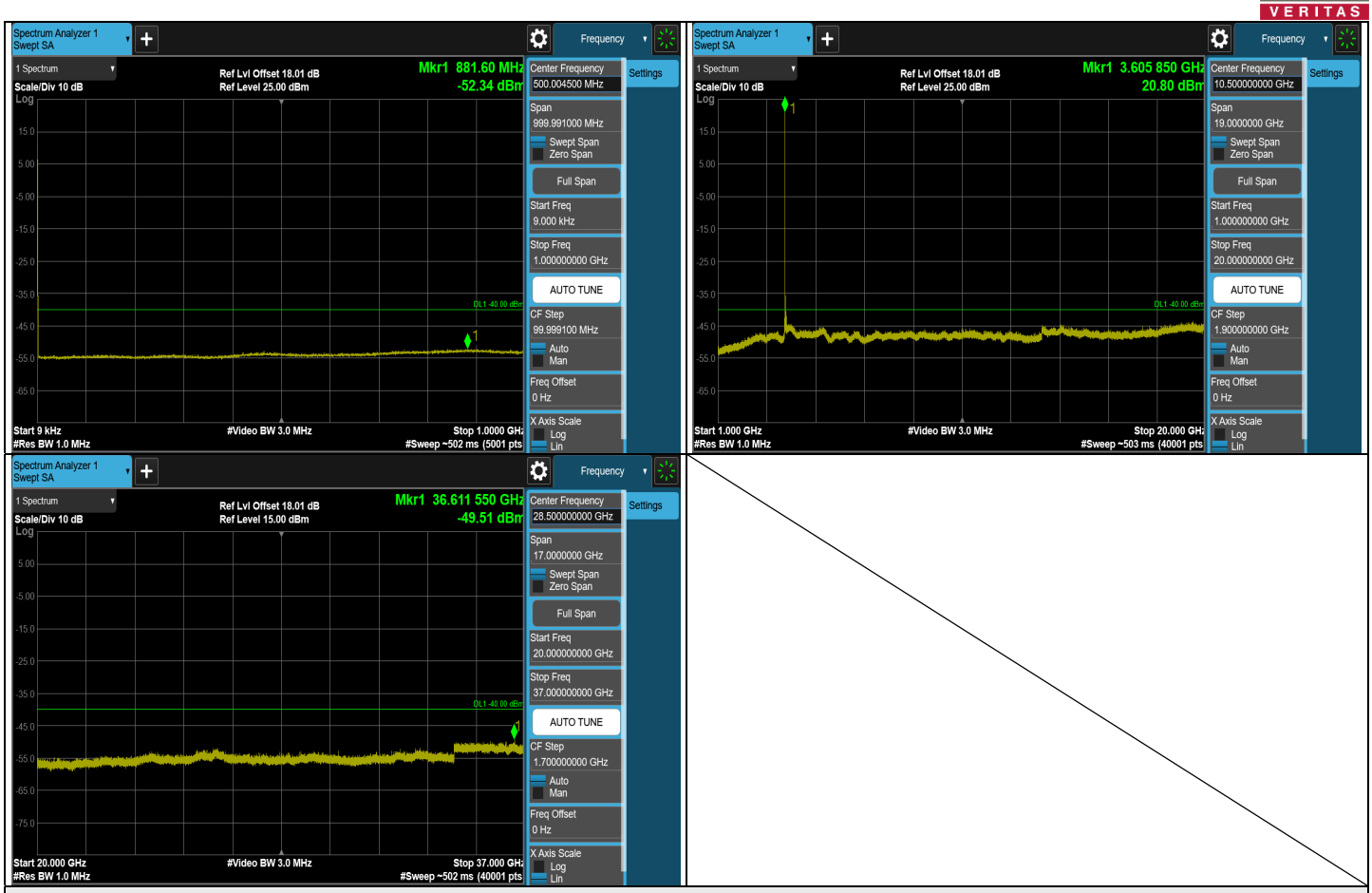


NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), MIMO-Ant 2, Channel Bandwidth: 40 MHz

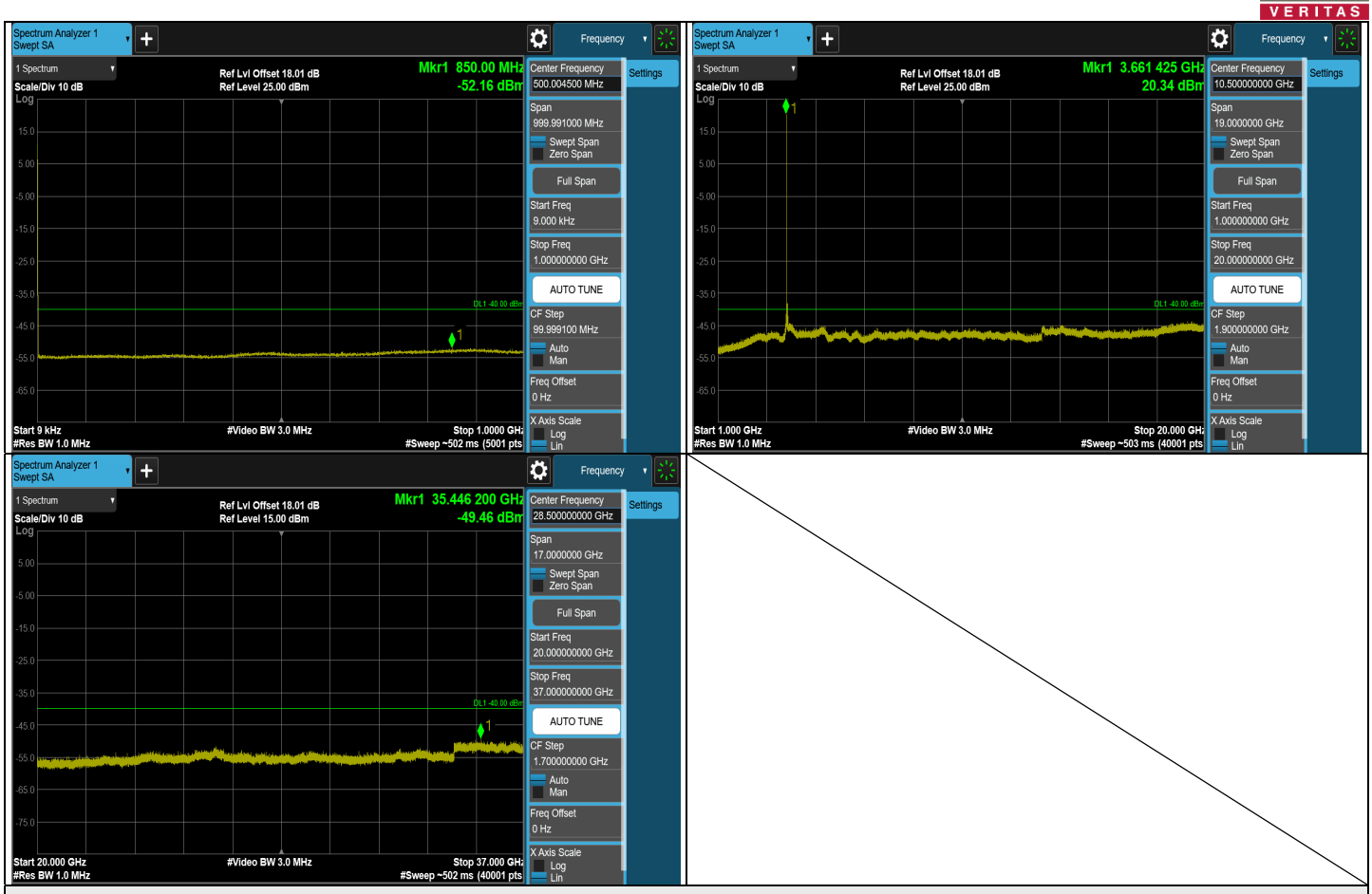




BPSKCH 638000 (3570 MHz)



BPSKCH 641666 (3624.99 MHz)

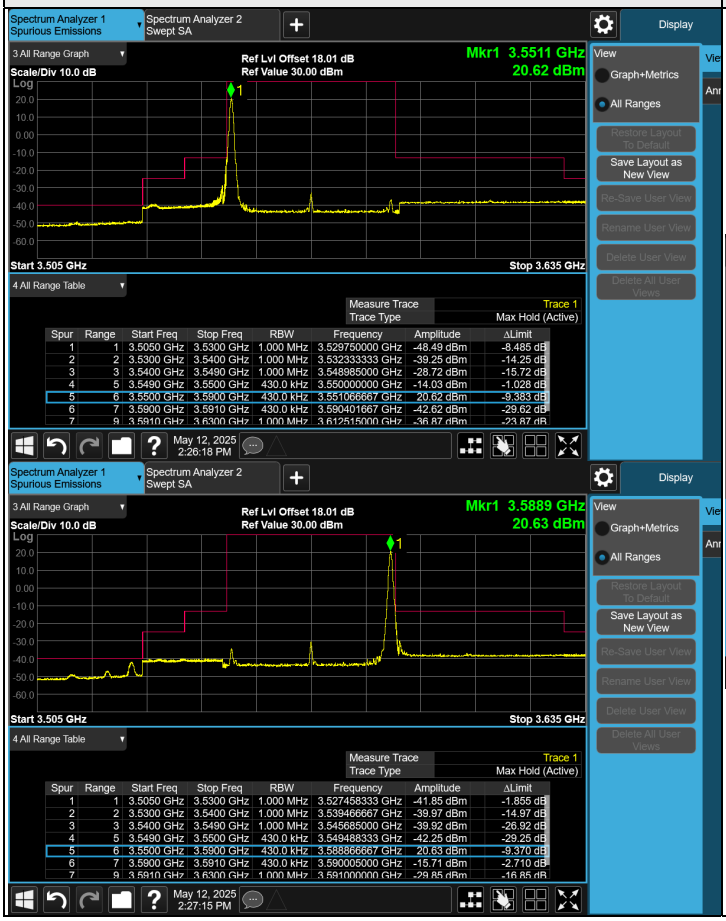


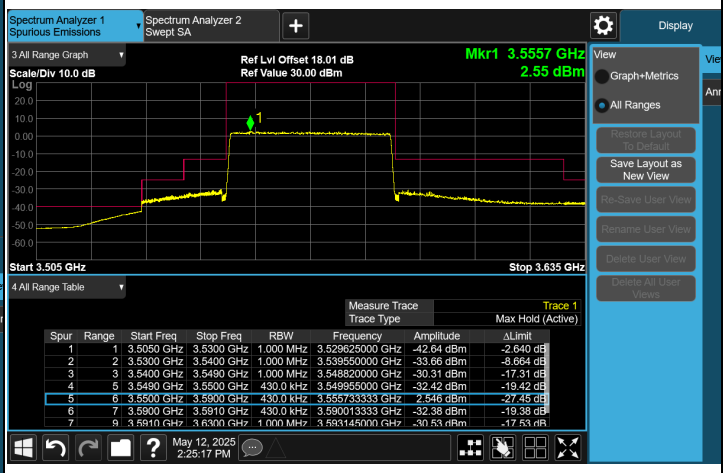
BPSKCH 645332 (3679.98 MHz)

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

NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), MIMO-Ant 2, Channel Bandwidth: 40 MHz

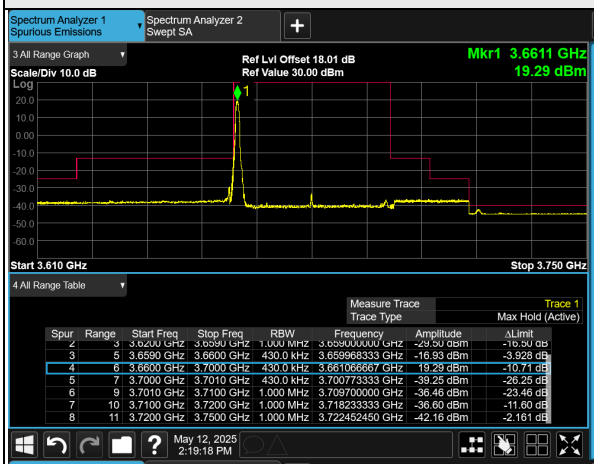
CH 638000 (3570 MHz)	
1 RB	FULL RB

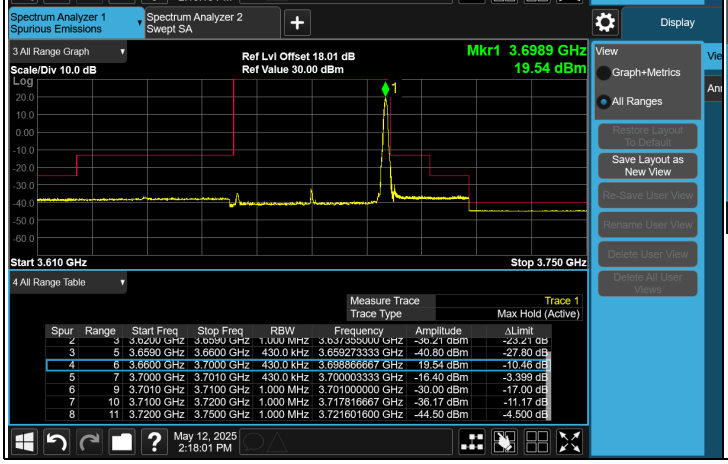




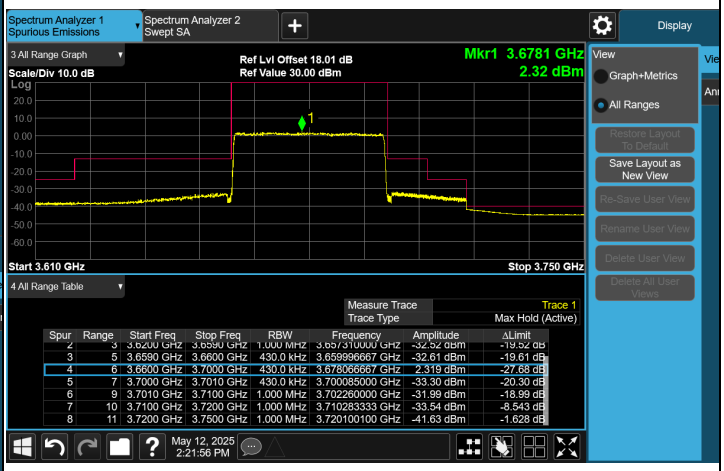
CH 645332 (3679.98 MHz)

1 RB





FULL RB



7.6 Radiated Spurious Emissions below 1GHz

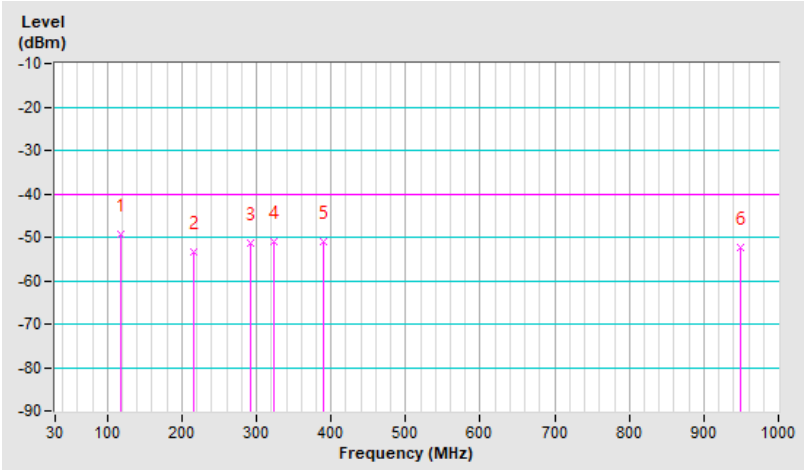
7.6.1 NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz)

RF Mode	NR n48 Channel Bandwidth: 40MHz	**Channel**	CH 641666：3624.99 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, 68 % RH
Tested By	Greg Lin		

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	117.30	-49.16	-40.00	-9.16	1.25 H	99	61.47	-110.63
2	215.27	-53.53	-40.00	-13.53	1.50 H	97	58.07	-111.60
3	291.90	-51.44	-40.00	-11.44	1.00 H	329	56.34	-107.78
4	323.91	-51.11	-40.00	-11.11	1.00 H	19	55.60	-106.71
5	389.87	-51.12	-40.00	-11.12	1.25 H	67	54.26	-105.38
6	948.59	-52.51	-40.00	-12.51	1.00 H	52	42.70	-95.21

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) + 20log(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.

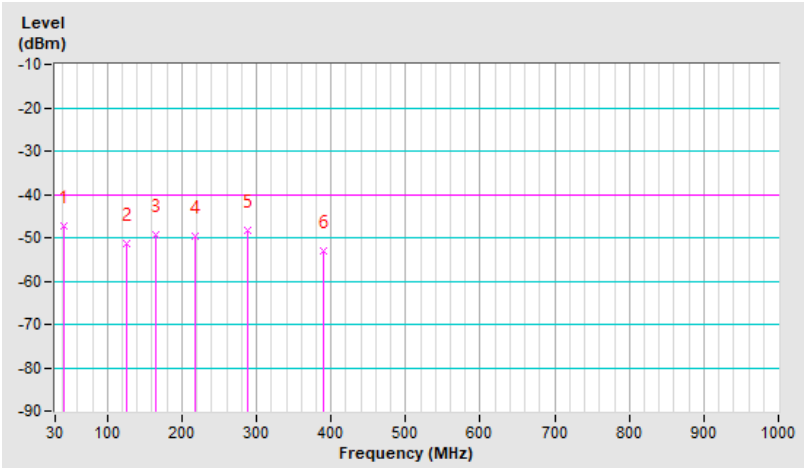


RF Mode	NR n48 Channel Bandwidth: 40MHz	**Channel**	CH 641666：3624.99 MHz
Frequency Range	30 MHz ~ 1 GHz	**Detector Function & Bandwidth**	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	**Environmental Conditions**	23 °C, 68 % RH
Tested By	Greg Lin		

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	**42.61**	**-47.24**	**-40.00**	**-7.24**	**1.25 V**	**26**	**61.31**	**-108.55**
2	125.06	-51.25	-40.00	-11.25	1.25 V	172	58.59	-109.84
3	164.83	-49.49	-40.00	-9.49	1.00 V	205	58.89	-108.38
4	218.18	-49.61	-40.00	-9.61	1.25 V	170	62.00	-111.61
5	288.02	-48.45	-40.00	-8.45	1.00 V	184	59.41	-107.86
6	389.87	-52.98	-40.00	-12.98	1.50 V	290	52.40	-105.38

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) + 20log(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.



7.7 Radiated Spurious Emissions above 1GHz

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

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, 68 % RH
Tested By	Edison 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	-43.01	-40.00	-3.01	1.68 H	326	42.65	-85.66
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	-42.30	-40.00	-2.30	1.50 V	176	43.36	-85.66

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) + 20log(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, 68 % RH
Tested By	Edison 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	-42.86	-40.00	-2.86	1.70 H	324	42.67	-85.53
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	1.46 V	178	43.40	-85.53

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) + 20log(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 646333：3694.98 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, 68 % RH
Tested By	Edison 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	-42.88	-40.00	-2.88	1.67 H	326	42.79	-85.67
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	-42.40	-40.00	-2.40	1.45 V	175	43.27	-85.67

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) + 20log(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, 68 % RH
Tested By	Edison 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	-43.27	-40.00	-3.27	1.62 H	321	42.43	-85.70
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	-42.44	-40.00	-2.44	1.48 V	171	43.26	-85.70

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) + 20log(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, 68 % RH
Tested By	Edison 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	-42.92	-40.00	-2.92	1.76 H	312	42.61	-85.53
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	-42.41	-40.00	-2.41	1.47 V	180	43.12	-85.53

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) + 20log(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, 68 % RH
Tested By	Edison 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	-42.94	-40.00	-2.94	1.73 H	305	42.76	-85.70
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	-42.22	-40.00	-2.22	1.44 V	172	43.48	-85.70

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) + 20log(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, 68 % RH
Tested By	Edison 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	-43.11	-40.00	-3.11	1.74 H	322	42.66	-85.77
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	-42.40	-40.00	-2.40	1.52 V	175	43.37	-85.77

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) + 20log(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, 68 % RH
Tested By	Edison 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	-42.43	-40.00	-2.43	1.74 H	321	43.10	-85.53
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**	**-41.93**	**-40.00**	**-1.93**	**1.46 V**	**178**	**43.60**	**-85.53**

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) + 20log(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, 68 % RH
Tested By	Edison 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	-43.07	-40.00	-3.07	1.72 H	333	42.69	-85.76
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	7359.96	-42.46	-40.00	-2.46	1.55 V	177	43.30	-85.76

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) + 20log(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:	Willy Cheng

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

NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), Channel Bandwidth: 10 MHz

Frequency Stability Versus Voltage				
Voltage (Vac)	CH 637000 (3555 MHz)		CH 646333 (3694.98 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
102	3554.999994	-0.0017	3694.97999	-0.0027
120	3555.000008	0.0023	3694.980006	0.0016
138	3554.999992	-0.0023	3694.979996	-0.0011

Note: The applicant defined the normal working voltage is from 102 to 138 Vac.

Frequency Stability Versus Temperature				
Temperature (℃)	CH 637000 (3555 MHz)		CH 646333 (3694.98 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3554.999994	-0.0017	3694.979993	-0.0019
-20	3554.999991	-0.0025	3694.979992	-0.0022
-10	3555.000001	0.0003	3694.979997	-0.0008
0	3555	0	3694.980003	0.0008
10	3554.999991	-0.0025	3694.979993	-0.0019
20	3554.99999	-0.0028	3694.979992	-0.0022
30	3555.000006	0.0017	3694.980004	0.0011
40	3554.999992	-0.0023	3694.979996	-0.0011
50	3554.999995	-0.0014	3694.979992	-0.0022

NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), Channel Bandwidth: 15 MHz

Frequency Stability Versus Voltage				
Voltage (Vac)	CH 637168 (3557.52 MHz)		CH 646166 (3692.49 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
102	3557.520003	0.0008	3692.489999	-0.0003
120	3557.520001	0.0003	3692.490003	0.0008
138	3557.520002	0.0006	3692.490005	0.0014

Note: The applicant defined the normal working voltage is from 102 to 138 Vac.

Frequency Stability Versus Temperature				
Temperature (℃)	CH 637168 (3557.52 MHz)		CH 646166 (3692.49 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3557.520007	0.002	3692.490004	0.0011
-20	3557.520001	0.0003	3692.490002	0.0005
-10	3557.520005	0.0014	3692.49001	0.0027
0	3557.520007	0.002	3692.490006	0.0016
10	3557.520005	0.0014	3692.490001	0.0003
20	3557.52	0	3692.490003	0.0008
30	3557.520005	0.0014	3692.490005	0.0014
40	3557.519993	-0.002	3692.489991	-0.0024
50	3557.519997	-0.0008	3692.489995	-0.0014

NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), Channel Bandwidth: 20 MHz

Frequency Stability Versus Voltage				
Voltage (Vac)	CH 637334 (3560.01 MHz)		CH 646000 (3690 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
102	3560.009998	-0.0006	3689.999994	-0.0016
120	3560.010009	0.0025	3690.000005	0.0014
138	3560.010004	0.0011	3690.000008	0.0022

Note: The applicant defined the normal working voltage is from 102 to 138 Vac.

Frequency Stability Versus Temperature				
Temperature (℃)	CH 637334 (3560.01 MHz)		CH 646000 (3690 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3560.010009	0.0025	3690.000006	0.0016
-20	3560.009996	-0.0011	3689.999995	-0.0014
-10	3560.010009	0.0025	3690.000008	0.0022
0	3560.010004	0.0011	3690.000005	0.0014
10	3560.009995	-0.0014	3689.999999	-0.0003
20	3560.010009	0.0025	3690.000008	0.0022
30	3560.010008	0.0022	3690.000006	0.0016
40	3560.010007	0.002	3690.000003	0.0008
50	3560.010007	0.002	3690.000008	0.0022

NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), Channel Bandwidth: 30 MHz

Frequency Stability Versus Voltage				
Voltage (Vac)	CH 637668 (3565.02 MHz)		CH 645666 (3684.99 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
102	3565.019993	-0.002	3684.989994	-0.0016
120	3565.020001	0.0003	3684.989997	-0.0008
138	3565.020004	0.0011	3684.99	0

Note: The applicant defined the normal working voltage is from 102 to 138 Vac.

Frequency Stability Versus Temperature				
Temperature (℃)	CH 637668 (3565.02 MHz)		CH 645666 (3684.99 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3565.020006	0.0017	3684.99001	0.0027
-20	3565.019997	-0.0008	3684.990001	0.0003
-10	3565.019992	-0.0022	3684.989997	-0.0008
0	3565.019996	-0.0011	3684.989994	-0.0016
10	3565.020004	0.0011	3684.99	0
20	3565.020002	0.0006	3684.990001	0.0003
30	3565.019997	-0.0008	3684.989998	-0.0005
40	3565.020008	0.0022	3684.990005	0.0014
50	3565.020002	0.0006	3684.990001	0.0003

NR n48 SCS 30 kHz (3.55 GHz ~ 3.7 GHz), Channel Bandwidth: 40 MHz

Frequency Stability Versus Voltage				
Voltage (Vac)	CH 638000 (3570 MHz)		CH 645332 (3679.98 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
102	3570.000001	0.0003	3679.979996	-0.0011
120	3570.000008	0.0022	3679.980008	0.0022
138	3570	0	3679.979996	-0.0011

Note: The applicant defined the normal working voltage is from 102 to 138 Vac.

Frequency Stability Versus Temperature				
Temperature (℃)	CH 638000 (3570 MHz)		CH 645332 (3679.98 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3570.000001	0.0003	3679.980002	0.0005
-20	3570.000006	0.0017	3679.980007	0.0019
-10	3569.999994	-0.0017	3679.979993	-0.0019
0	3569.999998	-0.0006	3679.979996	-0.0011
10	3569.999999	-0.0003	3679.980003	0.0008
20	3569.99999	-0.0028	3679.979992	-0.0022
30	3570.00001	0.0028	3679.98001	0.0027
40	3569.999998	-0.0006	3679.979996	-0.0011
50	3570.000005	0.0014	3679.98	0

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.

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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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