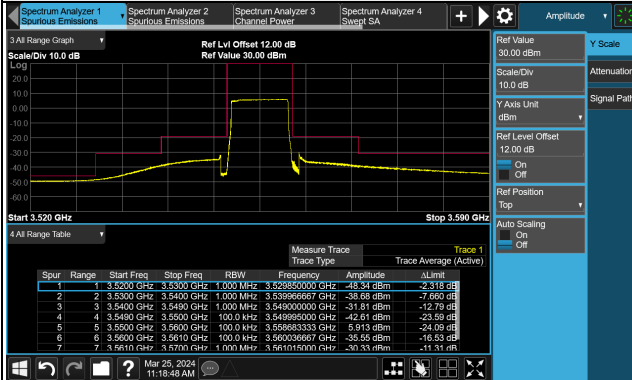


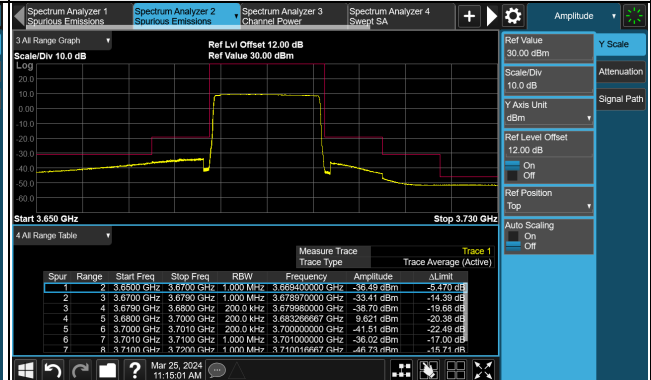
Antenna 3

NR Band 48, Channel Bandwidth 10MHz+20MHz

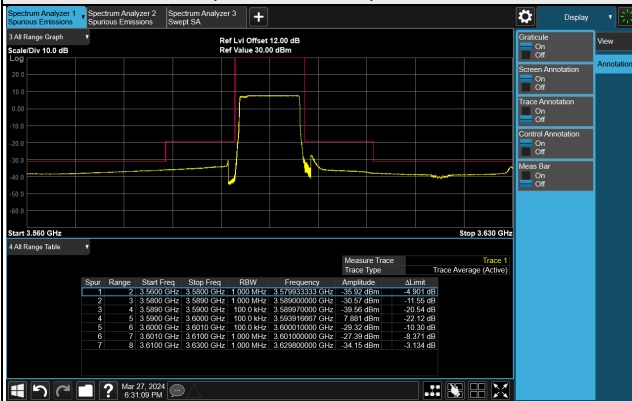
Channel 637000 (3555.00MHz)



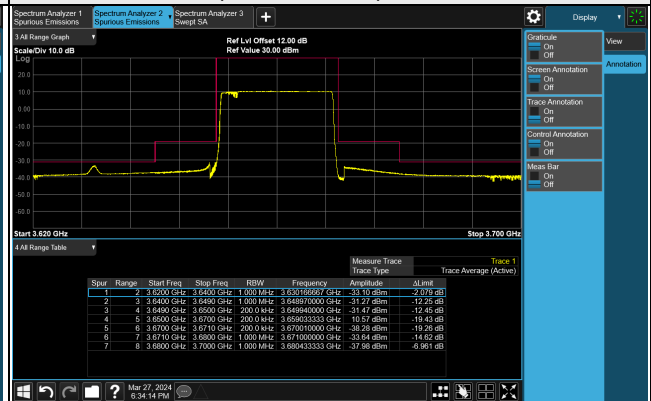
Channel 646000 (3690.00MHz)



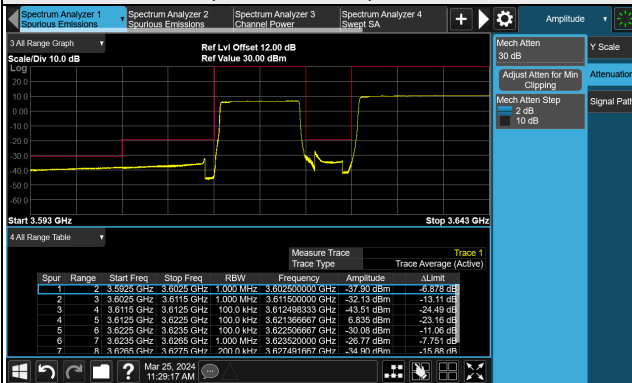
Channel 639668 (3595.02MHz)



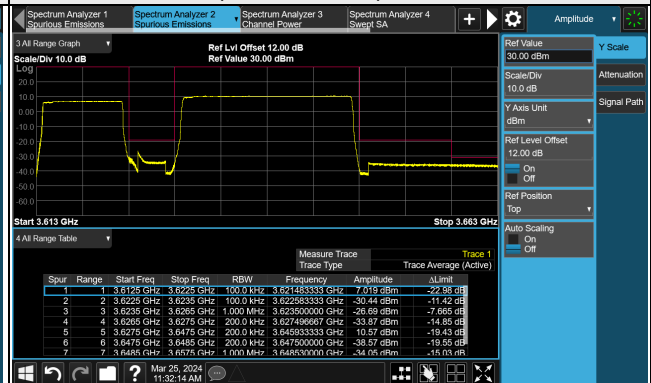
Channel 644000 (3660.00MHz)



Channel 641168 (3617.52MHz)



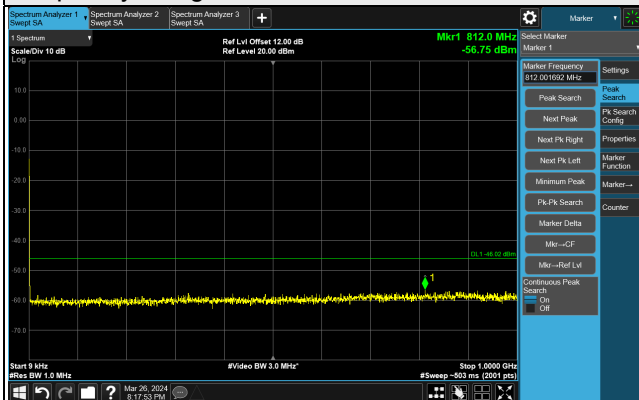
Channel 642502 (3637.53MHz)



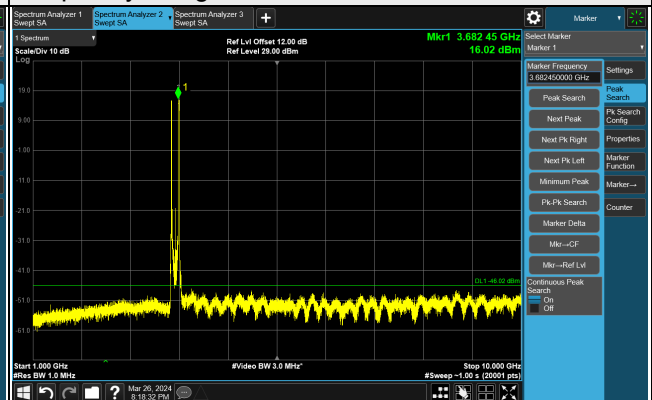
Channel Band width: 10MHz+20MHz

Channel 637000 (3555.00MHz)+646000 (3690.00MHz)

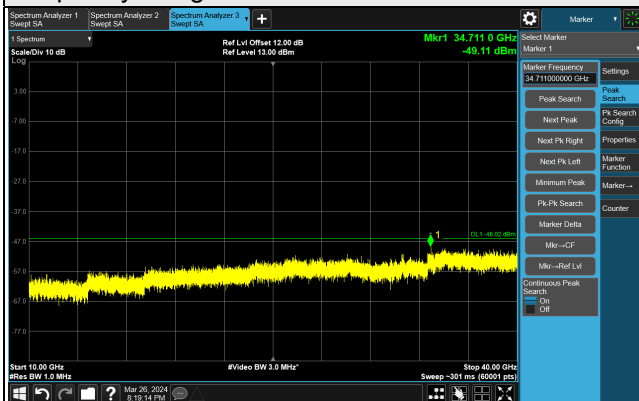
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~40GHz

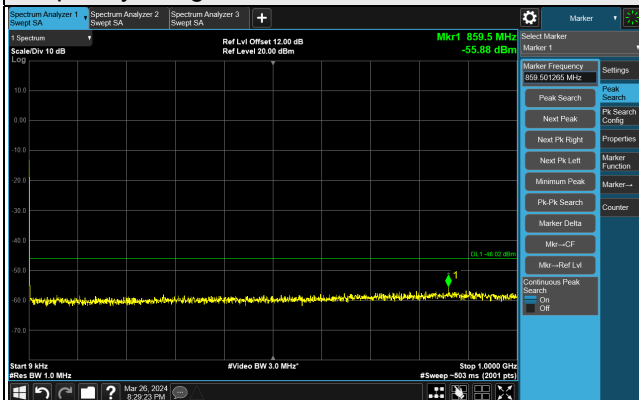


Note: The signal at 9 kHz is IF signal from spectrum analyzer.

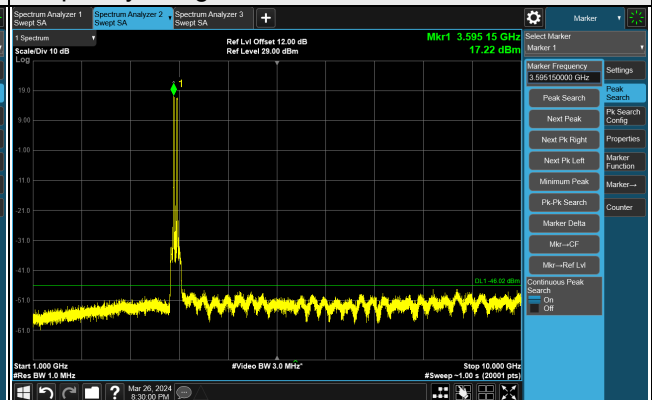
Channel Band width: 10MHz+20MHz

Channel 639668 (3595.02MHz)+644000 (3660.00MHz)

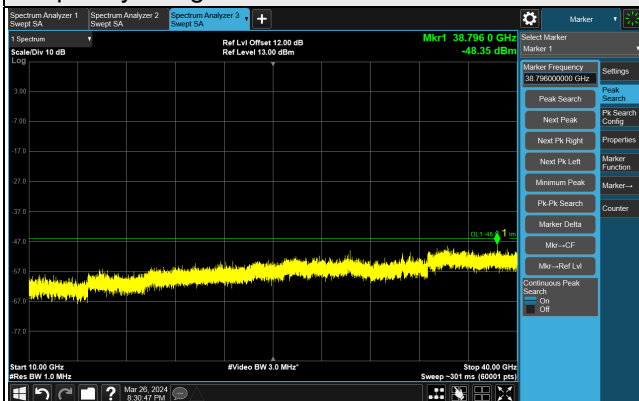
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~40GHz

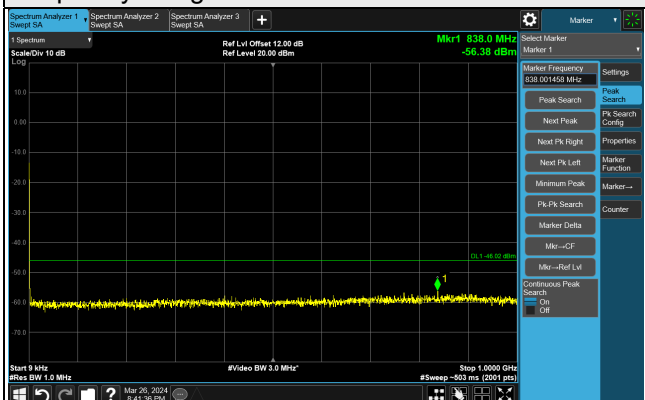


Note: The signal at 9 kHz is IF signal from spectrum analyzer.

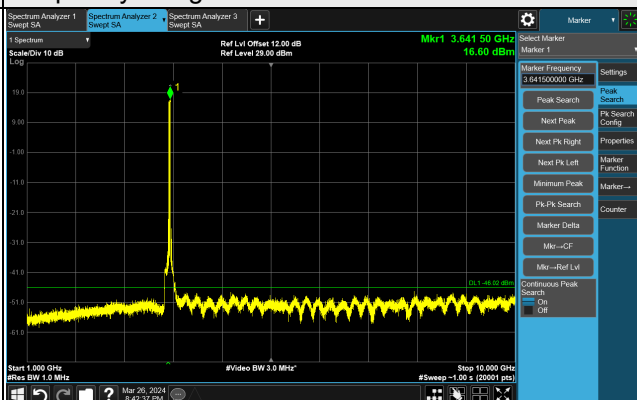
Channel Band width: 10MHz+20MHz

Channel 641168 (3617.52MHz)+642502 (3637.53MHz)

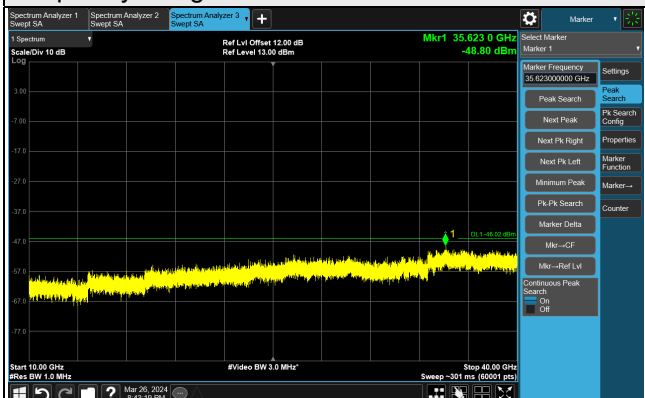
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~10GHz



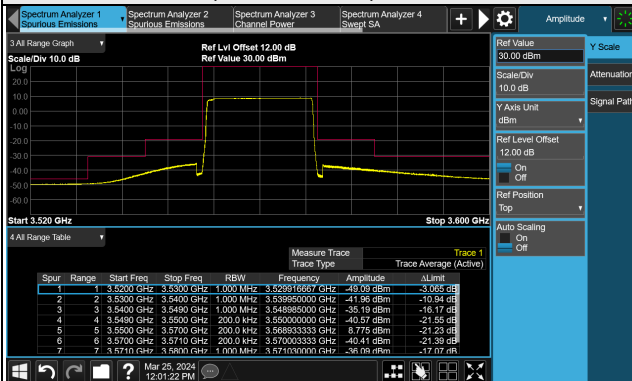
Frequency Range : 10GHz~40GHz



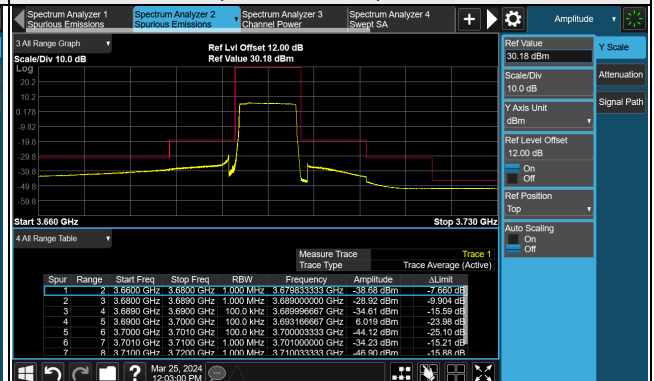
Note: The signal at 9 kHz is IF signal from spectrum analyzer.

NR Band 48, Channel Bandwidth 20MHz+10MHz

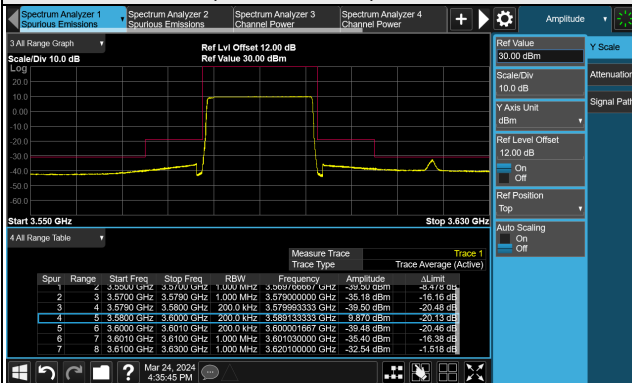
Channel 637334 (3560.01MHz)



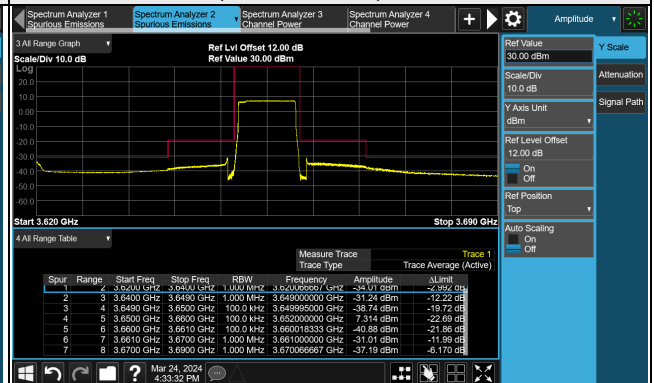
Channel 646332 (3694.98MHz)



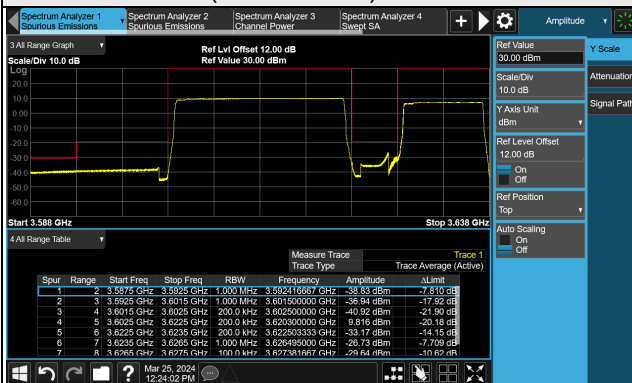
Channel 639334 (3590.01MHz)



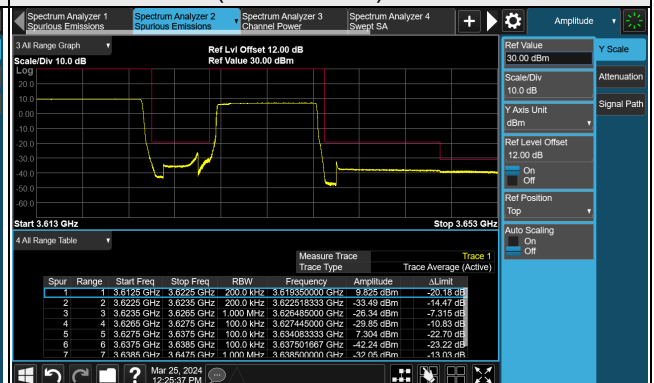
Channel 643668 (3655.02MHz)



Channel 640834 (3612.51MHz)



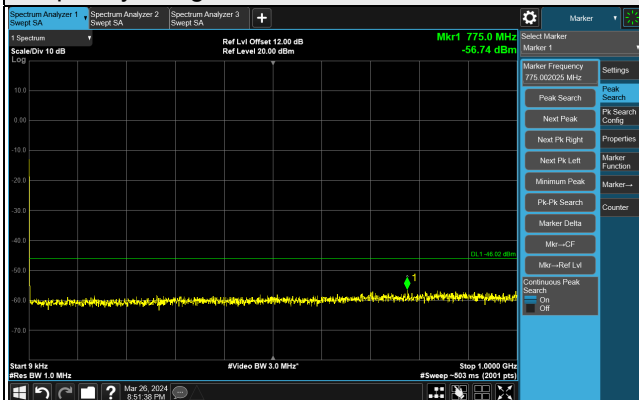
Channel 642168 (3632.52MHz)



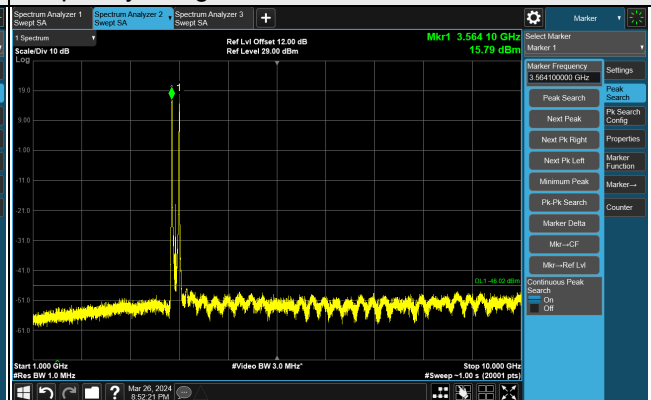
Channel Band width: 20MHz+10MHz

Channel 637334 (3560.01MHz)+646332 (3694.98MHz)

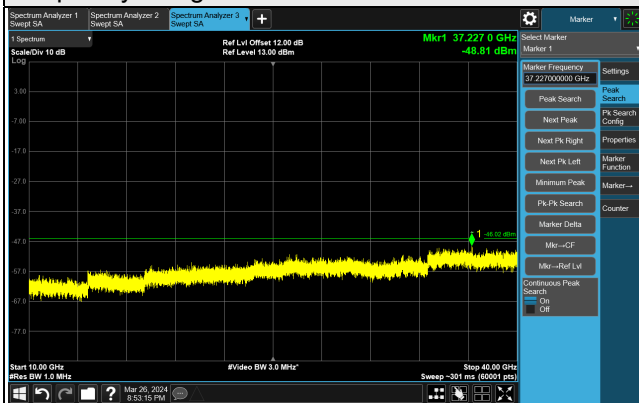
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~40GHz

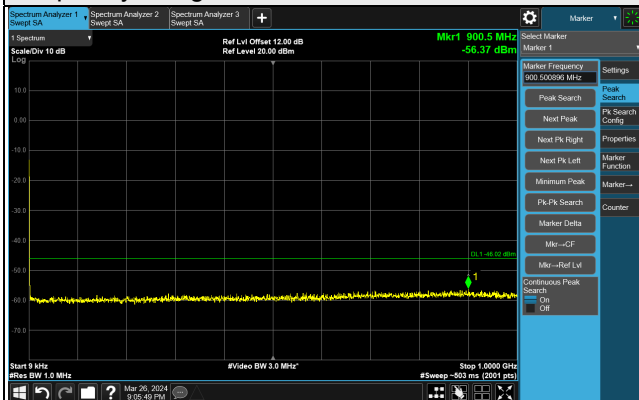


Note: The signal at 9 kHz is IF signal from spectrum analyzer.

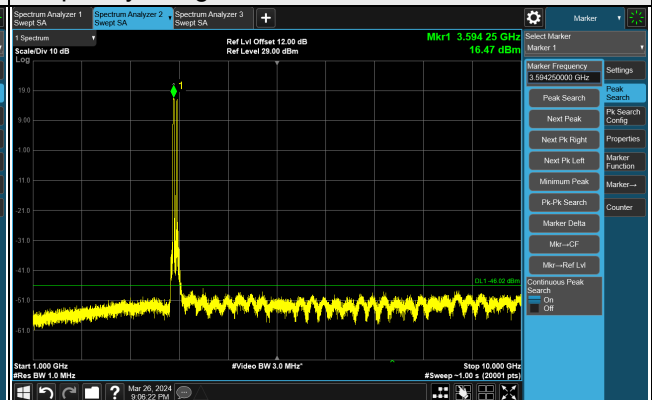
Channel Band width: 20MHz+10MHz

Channel 639334 (3590.01MHz)+643668 (3655.02MHz)

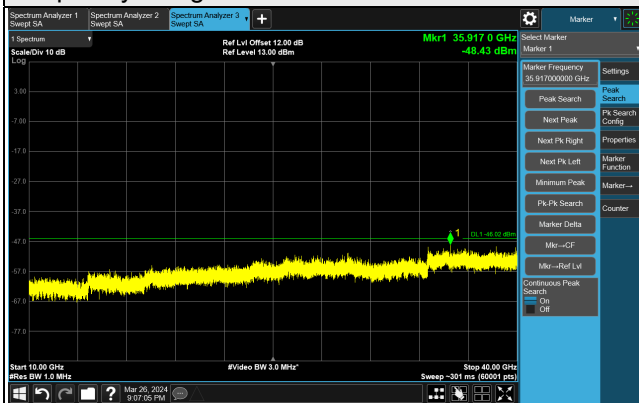
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~40GHz

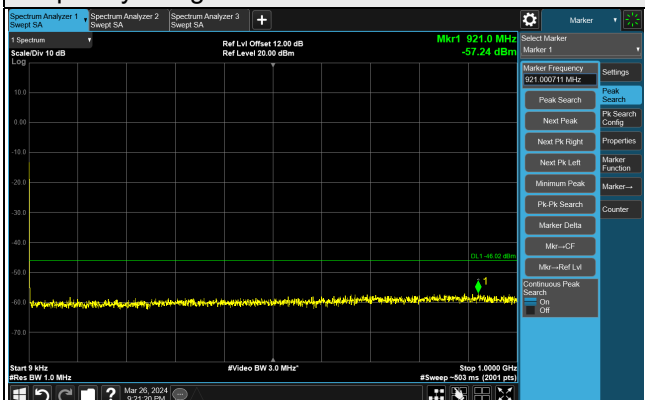


Note: The signal at 9 kHz is IF signal from spectrum analyzer.

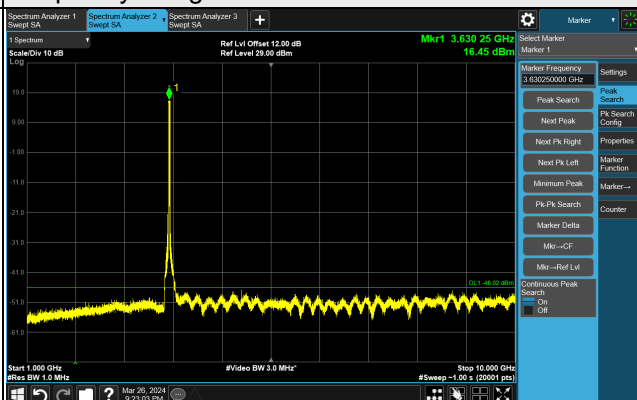
Channel Band width: 20MHz+10MHz

Channel 640834 (3612.51MHz)+642168 (3632.52MHz)

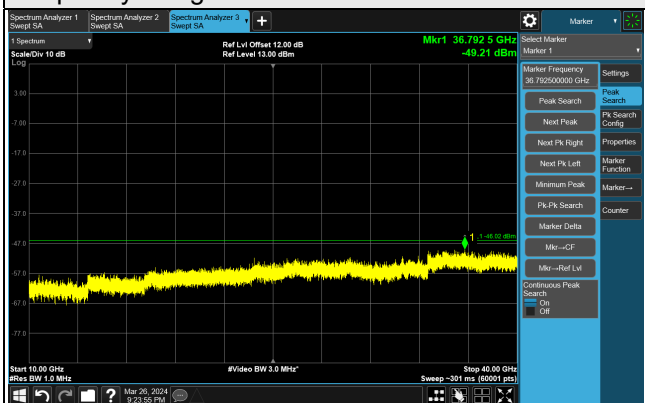
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~10GHz



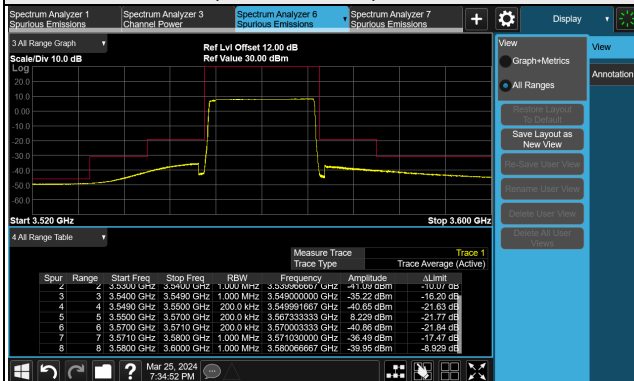
Frequency Range : 10GHz~40GHz



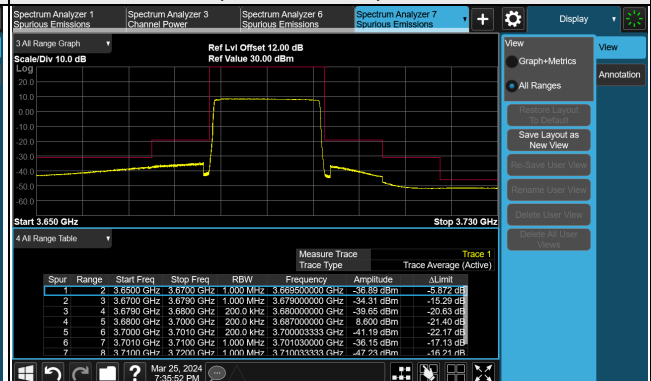
Note: The signal at 9 kHz is IF signal from spectrum analyzer.

NR Band 48, Channel Bandwidth 20MHz+20MHz

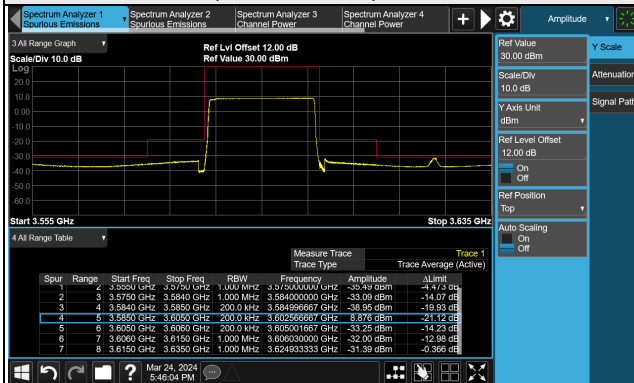
Channel 637334 (3560.01MHz)



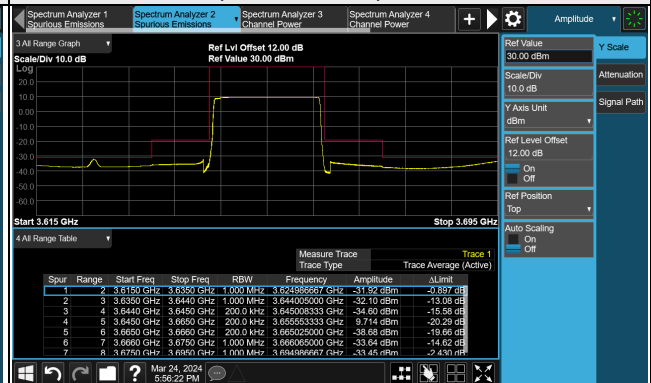
Channel 646000 (3690.00MHz)



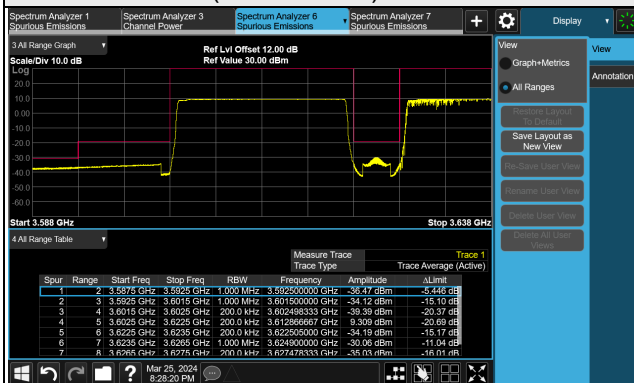
Channel 639668 (3595.02MHz)



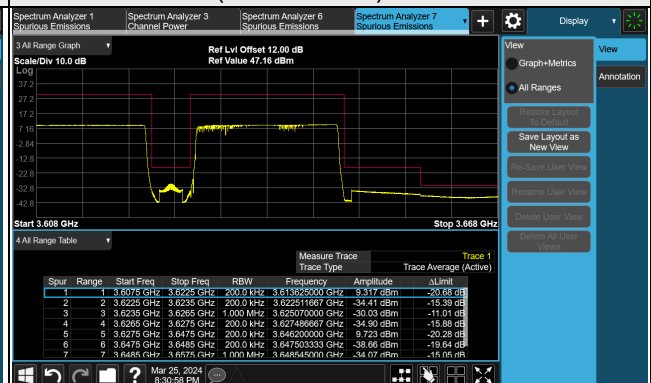
Channel 643668 (3655.02MHz)



Channel 640834 (3612.51MHz)



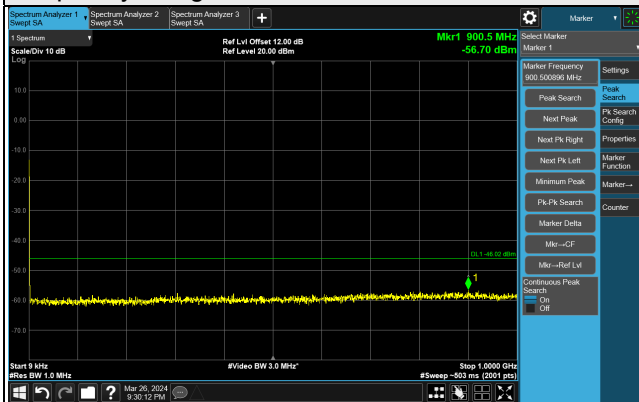
Channel 642502 (3637.53MHz)



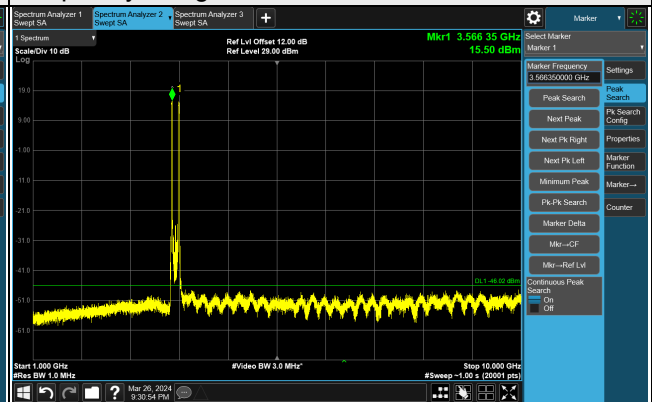
Channel Band width: 20MHz+20MHz

Channel 637334 (3560.01MHz)+646000 (3690.00MHz)

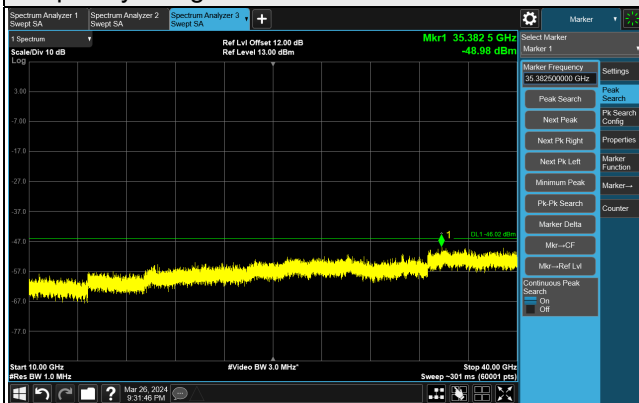
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~40GHz

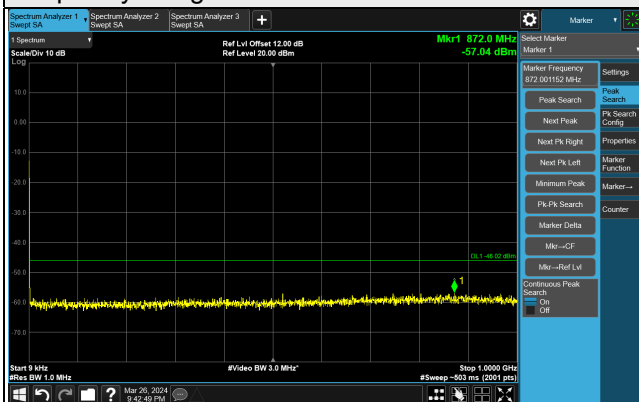


Note: The signal at 9 kHz is IF signal from spectrum analyzer.

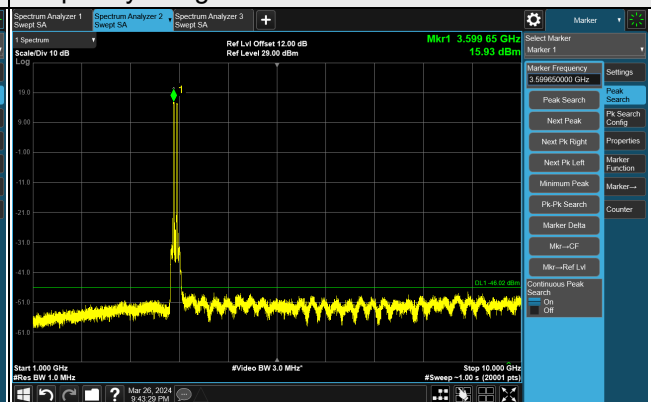
Channel Band width: 20MHz+20MHz

Channel 639668 (3595.02MHz)+643668 (3655.02MHz)

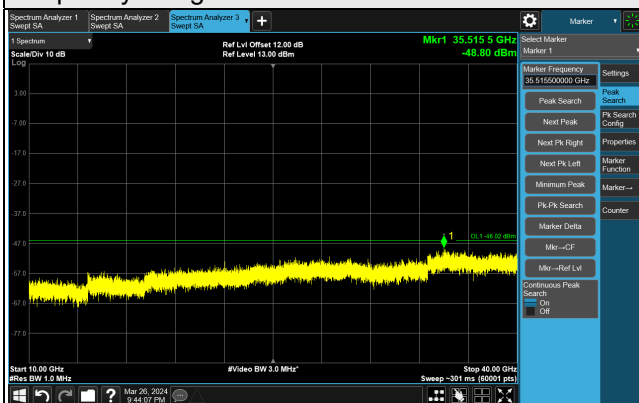
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~40GHz

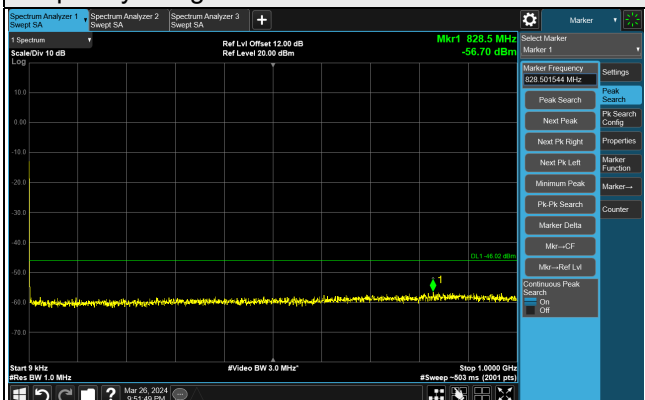


Note: The signal at 9 kHz is IF signal from spectrum analyzer.

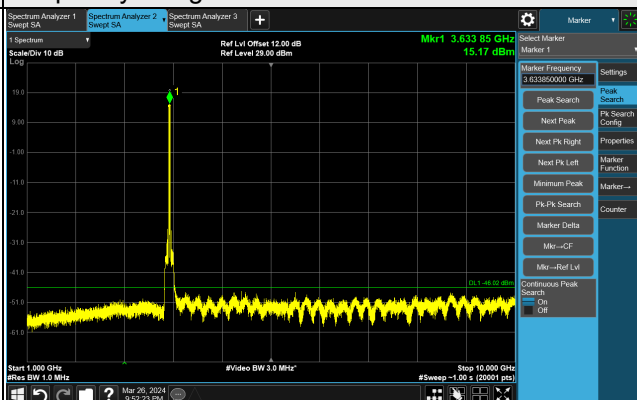
Channel Band width: 20MHz+20MHz

Channel 640834 (3612.51MHz)+642502 (3637.53MHz)

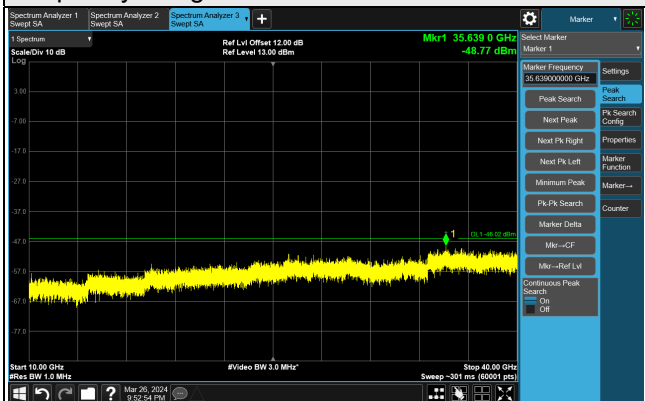
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~40GHz



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

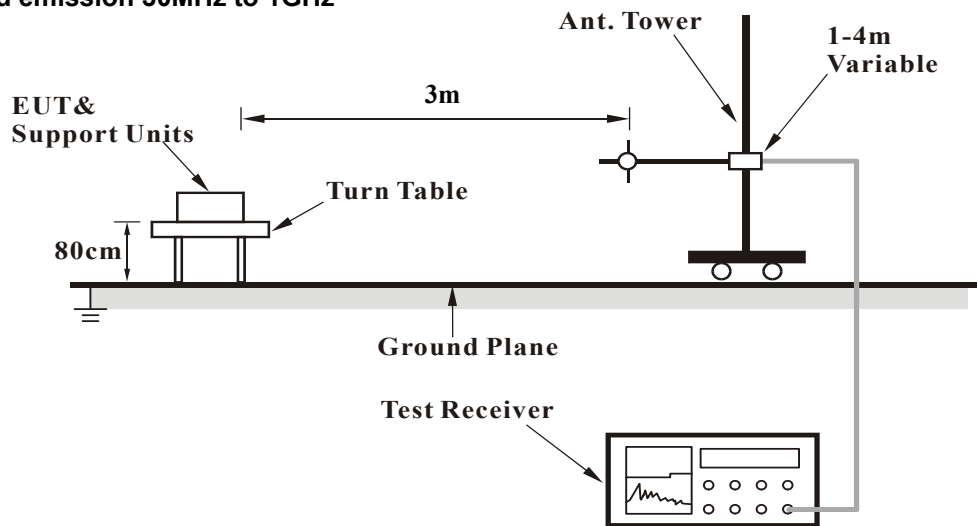
4.8 Radiated Emission Measurement

4.8.1 Limits of Radiated Emission Measurement

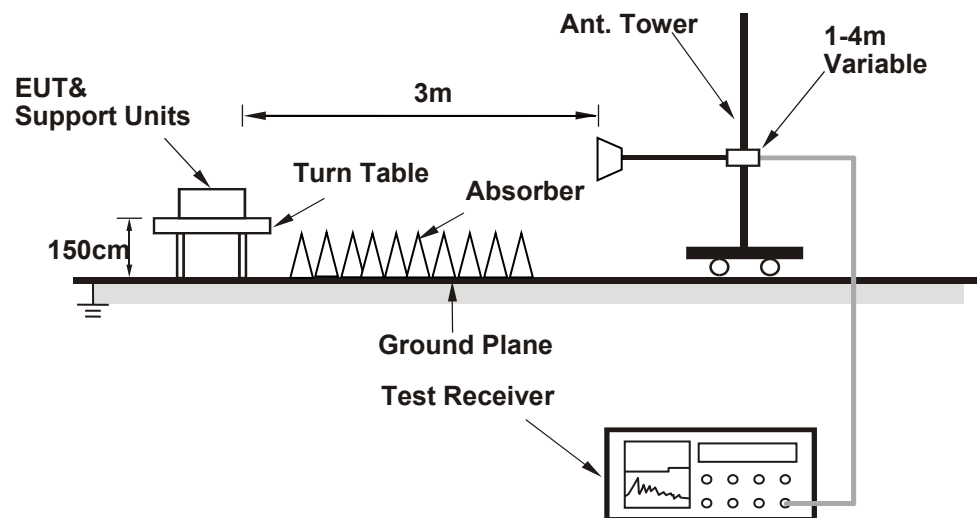
The power of any emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz .

4.8.2 Test Set Up

For radiated emission 30MHz to 1GHz



For radiated emission above 1GHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.8.3 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver Rohde & Schwarz	ESR3	102783	Dec. 13, 2023	Dec. 12, 2024
Spectrum Analyzer KEYSIGHT	N9020B	MY60110513	Dec. 12, 2023	Dec. 11, 2024
BILOG Antenna SCHWARZBECK	VULB 9168	9168-1214	Oct. 17, 2023	Oct. 16, 2024
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-1170	Nov. 12, 2023	Nov. 11, 2024
HORN Antenna SCHWARZBECK	BBHA 9170	9170-1048	Nov. 12, 2023	Nov. 11, 2024
Loop Antenna EMCI	EM-6879	269	Sep. 23, 2023	Sep. 22, 2024
Loop Antenna TESEQ	HLA 6121	45745	Aug. 08, 2023	Aug. 07, 2024
Preamplifier EMCI	EMC330N	980798	Jan. 15, 2024	Jan. 14, 2025
Preamplifier EMCI	EMC118A45SE	980809	Mar. 07, 2023	Mar. 06, 2024
Preamplifier EMCI	EMC184045SE	980786	Jan. 15, 2024	Jan. 14, 2025
RF signal cable EMCI	EMC104-SM-SM- (9000+2000+1000)	201244+ 201232+ 210103	Jan. 15, 2024	Jan. 14, 2025
RF signal cable EMCI	EMCCFD400-NM-N M-(9000+300+500)	201251+ 201249+ 201248	Jan. 15, 2024	Jan. 14, 2025
RF signal cable EMCI	EMC101G-KM-KM- (5000+3000+2000)	201261+201258+ 201249	Jan. 15, 2024	Jan. 14, 2025
Software BV ADT	ADT_Radiated_V7. 6.15.9.5	NA	NA	NA
Antenna Tower Max-Full	MFA-515BSN	NA	NA	NA
Turn Table Max-Full	MFT-201SS	NA	NA	NA
Turn Table Controller Max-Full	MF-7802BS	MF780208676	NA	NA

- Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in WM Chamber 9.
3. Tested date: Jan. 22 ~ Jan. 23, 2024

4.8.4 Test Procedures

- a. In the semi-anechoic chamber, EUT placed on the 0.8m(below or equal 1GHz) and/or 1.5m(above 1GHz) height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- b. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- c. Perform a field strength measurement and record the worse read value, is the field strength value via a spectrum reading obtained corrected for antenna factor, cable loss and pre-amplifier factor and then mathematically convert the measured field strength level to EIRP/ERP level.
- d. Following C63.26 section 5.5 and 5.2.7
 - $EIRP (dBm) = E (dB\mu V/m) + 20\log(D) - 104.8$; where D is the measurement distance (in the far field region) in m.
 - $ERP (dBm) = E (dB\mu V/m) + 20\log(D) - 104.8 - 2.15$; where D is the measurement distance (in the far field region) in m.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.
Detector = Average.
2. The emission levels were against the limit of frequency range 9 kHz ~ 30 MHz:
The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

4.8.5 Deviation from Test Standard

No deviation.

4.8.6 EUT Operating Conditions

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.8.7 Test Results

Below 1GHz Data

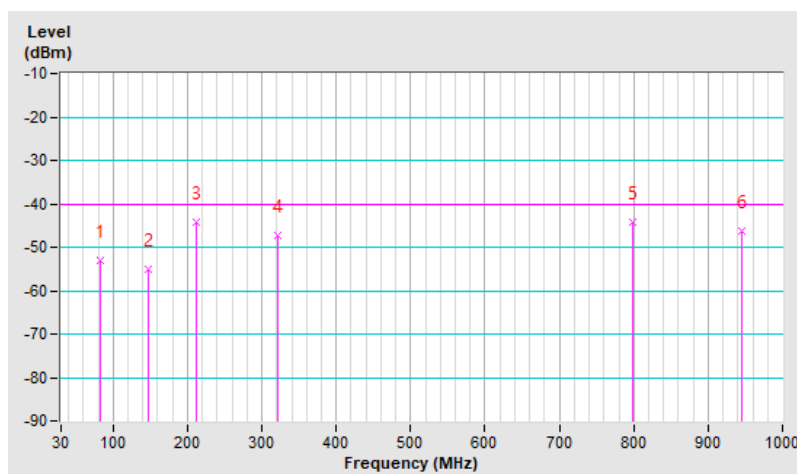
NR Band 48, Channel Bandwidth 20MHz+10MHz

Mode	TX channel 637334 (3560.01MHz) + 646332 (3694.98MHz),	Frequency Range	Below 1000 MHz
Environmental Conditions	22deg. C, 72%RH	Input Power	60Vac
Tested By	Noah Chang	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	82.38	-53.10	-40.00	-13.10	1.50 H	346	60.74	-113.84
2	146.40	-55.10	-40.00	-15.10	1.00 H	225	53.38	-108.48
3	212.36	-44.15	-40.00	-4.15	1.00 H	233	67.58	-111.73
4	321.00	-47.29	-40.00	-7.29	1.50 H	207	59.91	-107.20
5	798.24	-44.27	-40.00	-4.27	1.50 H	349	53.41	-97.68
6	945.68	-46.24	-40.00	-6.24	1.00 H	183	49.57	-95.81

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.

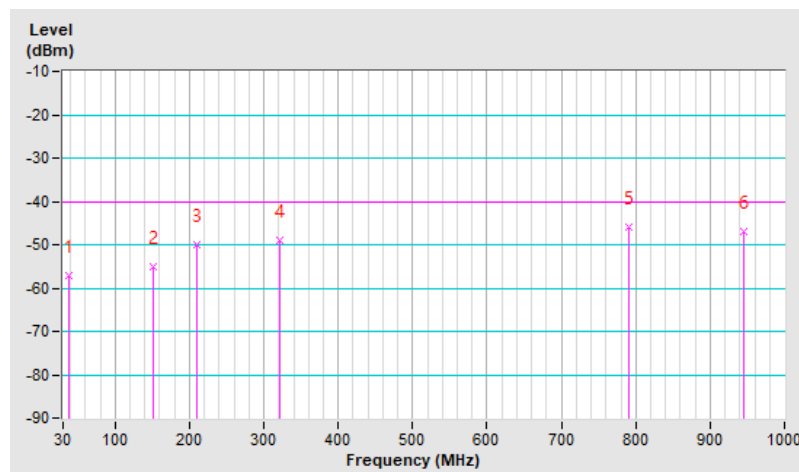


Mode	TX channel 637334 (3560.01MHz) + 646332 (3694.98MHz),	Frequency Range	Below 1000 MHz
Environmental Conditions	22deg. C, 72%RH	Input Power	60Vac
Tested By	Noah Chang	Test Mode	B

Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	37.76	-56.95	-40.00	-16.95	1.50 V	336	52.20	-109.15
2	150.28	-55.15	-40.00	-15.15	1.00 V	138	53.23	-108.38
3	209.45	-50.15	-40.00	-10.15	1.00 V	265	61.55	-111.70
4	321.97	-49.03	-40.00	-9.03	1.00 V	198	58.13	-107.16
5	790.48	-46.09	-40.00	-6.09	2.00 V	119	51.64	-97.73
6	944.71	-46.83	-40.00	-6.83	1.00 V	161	48.99	-95.82

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.



Above 1GHz

Mode A: 1CC

NR Band 48, Channel Bandwidth 10MHz

Mode	TX channel 637000 (3555.00MHz)	Frequency Range	1GHz ~ 40GHz
Environmental Conditions	22deg. C, 67%RH	Input Power	60Vac
Tested By	Noah Chang		

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	-42.14	-40.00	-2.14	1.55 H	29	44.84	-86.98
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	-43.37	-40.00	-3.37	1.51 V	216	43.61	-86.98

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.

Mode	TX channel 641666 (3624.99MHz)	Frequency Range	1GHz ~ 40GHz
Environmental Conditions	22deg. C, 67%RH	Input Power	60Vac
Tested By	Noah Chang		

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	-42.78	-40.00	-2.78	1.55 H	205	43.91	-86.69
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	-42.92	-40.00	-2.92	1.35 V	15	43.77	-86.69

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.

Mode	TX channel 646332 (3694.98MHz)	Frequency Range	1GHz ~ 40GHz
Environmental Conditions	22deg. C, 67%RH	Input Power	60Vac
Tested By	Noah Chang		

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	-43.34	-40.00	-3.34	1.59 H	211	43.69	-87.03
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	-43.68	-40.00	-3.68	1.51 V	10	43.35	-87.03

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.

NR Band 48, Channel Bandwidth 20MHz

Mode	TX channel 637334 (3560.01MHz)	Frequency Range	1GHz ~ 40GHz
Environmental Conditions	22deg. C, 67%RH	Input Power	60Vac
Tested By	Noah Chang		

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	-43.47	-40.00	-3.47	1.59 H	216	43.56	-87.03
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	-43.87	-40.00	-3.87	1.63 V	10	43.16	-87.03

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.

Mode	TX channel 641666 (3624.99MHz)	Frequency Range	1GHz ~ 40GHz
Environmental Conditions	22deg. C, 67%RH	Input Power	60Vac
Tested By	Noah Chang		

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	-43.48	-40.00	-3.48	1.39 H	216	43.21	-86.69
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	-42.69	-40.00	-2.69	1.26 V	13	44.00	-86.69

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.

Mode	TX channel 646000 (3690.00MHz)	Frequency Range	1GHz ~ 40GHz
Environmental Conditions	22deg. C, 67%RH	Input Power	60Vac
Tested By	Noah Chang		

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	-43.64	-40.00	-3.64	1.44 H	28	43.31	-86.95
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	-43.70	-40.00	-3.70	1.52 V	200	43.25	-86.95

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.

NR Band 48, Channel Bandwidth 40MHz

Mode	TX channel 638000 (3570.00MHz)	Frequency Range	1GHz ~ 40GHz
Environmental Conditions	22deg. C, 67%RH	Input Power	60Vac
Tested By	Noah Chang		

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	-43.40	-40.00	-3.40	1.35 H	208	43.72	-87.12
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	-43.52	-40.00	-3.52	2.15 V	21	43.60	-87.12

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.

Mode	TX channel 641666 (3624.99MHz)	Frequency Range	1GHz ~ 40GHz
Environmental Conditions	22deg. C, 67%RH	Input Power	60Vac
Tested By	Noah Chang		

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	-43.30	-40.00	-3.30	2.16 H	220	43.39	-86.69
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	-43.58	-40.00	-3.58	1.32 V	28	43.11	-86.69

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.

Mode	TX channel 645332 (3679.98MHz)	Frequency Range	1GHz ~ 40GHz
Environmental Conditions	22deg. C, 67%RH	Input Power	60Vac
Tested By	Noah Chang		

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	-43.06	-40.00	-3.06	1.50 H	13	43.72	-86.78
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	-43.45	-40.00	-3.45	1.41 V	203	43.33	-86.78

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.

Mode B: 2CC

NR Band 48, Channel Bandwidth 10MHz+20MHz

Mode	TX channel 637000 (3555.00MHz) + 646000 (3690.00MHz),	Frequency Range	1GHz ~ 40GHz
Environmental Conditions	22deg. C, 67%RH	Input Power	60Vac
Tested By	Noah Chang		

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	-43.61	-40.00	-3.61	1.56 H	216	43.37	-86.98
2	7380.00	-43.54	-40.00	-3.54	1.60 H	211	43.41	-86.95
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	-43.72	-40.00	-3.72	1.61 V	15	43.26	-86.98
2	7380.00	-43.62	-40.00	-3.62	1.55 V	23	43.33	-86.95

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.

Mode	TX channel 639668 (3595.02MHz) + 644000 (3660.00MHz)	Frequency Range	1GHz ~ 40GHz
Environmental Conditions	22deg. C, 67%RH	Input Power	60Vac
Tested By	Noah Chang		

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	7190.04	-43.10	-40.00	-3.10	1.76 H	26	44.00	-87.10
2	7320.00	-42.47	-40.00	-2.47	1.52 H	27	44.21	-86.68
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	7190.04	-43.77	-40.00	-3.77	1.76 V	195	43.33	-87.10
2	7320.00	-43.11	-40.00	-3.11	1.59 V	218	43.57	-86.68

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.

Mode	TX channel 641168 (3617.52MHz) + 642502 (3637.53MHz)	Frequency Range	1GHz ~ 40GHz
Environmental Conditions	22deg. C, 67%RH	Input Power	60Vac
Tested By	Noah Chang		

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	7235.04	-42.42	-40.00	-2.42	1.59 H	11	44.39	-86.81
2	7275.06	-42.47	-40.00	-2.47	1.52 H	28	44.21	-86.68
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	7235.04	-43.15	-40.00	-3.15	1.51 V	236	43.66	-86.81
2	7275.06	-42.73	-40.00	-2.73	1.59 V	210	43.95	-86.68

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.

NR Band 48, Channel Bandwidth 20MHz+10MHz

Mode	TX channel 637334 (3560.01MHz) + 646332 (3694.98MHz)	Frequency Range	1GHz ~ 40GHz
Environmental Conditions	22deg. C, 67%RH	Input Power	60Vac
Tested By	Noah Chang		

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	-42.67	-40.00	-2.67	1.33 H	35	44.36	-87.03
2	7389.96	-42.90	-40.00	-2.90	1.34 H	37	44.13	-87.03
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	-43.82	-40.00	-3.82	2.00 V	158	43.21	-87.03
2	7389.96	-43.44	-40.00	-3.44	1.69 V	233	43.59	-87.03

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.

Mode	TX channel 639334 (3590.01MHz) + 643668 (3655.02MHz)	Frequency Range	1GHz ~ 40GHz
Environmental Conditions	22deg. C, 67%RH	Input Power	60Vac
Tested By	Noah Chang		

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	7180.02	-42.98	-40.00	-2.98	1.70 H	21	44.13	-87.11
2	7245.03	-42.52	-40.00	-2.52	1.63 H	25	44.21	-86.73
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	7180.02	-43.86	-40.00	-3.86	1.51 V	125	43.25	-87.11
2	7245.03	-43.40	-40.00	-3.40	1.59 V	263	43.33	-86.73

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.

Mode	TX channel 640834 (3612.51MHz) + 642168 (3632.52MHz)	Frequency Range	1GHz ~ 40GHz
Environmental Conditions	22deg. C, 67%RH	Input Power	60Vac
Tested By	Noah Chang		

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	7255.02	-42.49	-40.00	-2.49	1.88 H	18	44.19	-86.68
2	7265.04	-42.34	-40.00	-2.34	1.56 H	2	44.33	-86.67
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	7255.02	-43.02	-40.00	-3.02	2.15 V	125	43.66	-86.68
2	7265.04	-42.79	-40.00	-2.79	1.35 V	266	43.88	-86.67

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$.
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value.
4. The other EIRP levels were very low against the limit.

NR Band 48, Channel Bandwidth 20MHz+20MHz

Mode	TX channel 637334 (3560.01MHz) + 646000 (3690.00MHz)	Frequency Range	1GHz ~ 40GHz
Environmental Conditions	22deg. C, 67%RH	Input Power	60Vac
Tested By	Noah Chang		

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	-42.77	-40.00	-2.77	2.15 H	29	44.26	-87.03
2	7380.00	-42.73	-40.00	-2.73	1.69 H	36	44.22	-86.95
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	-43.15	-40.00	-3.15	1.51 V	188	43.88	-87.03
2	7380.00	-43.19	-40.00	-3.19	1.58 V	203	43.76	-86.95

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.

Mode	TX channel 639668 (3595.02MHz) + 643668 (3655.02MHz)	Frequency Range	1GHz ~ 40GHz
Environmental Conditions	22deg. C, 67%RH	Input Power	60Vac
Tested By	Noah Chang		

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	7190.04	-42.71	-40.00	-2.71	1.66 H	28	44.39	-87.10
2	7310.04	-42.06	-40.00	-2.06	1.44 H	24	44.62	-86.68
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	7190.04	-42.90	-40.00	-2.90	1.44 V	233	44.20	-87.10
2	7310.04	-42.10	-40.00	-2.10	1.44 V	210	44.58	-86.68

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.

Mode	TX channel 640834 (3612.51MHz) + 642502 (3637.53MHz)	Frequency Range	1GHz ~ 40GHz
Environmental Conditions	22deg. C, 67%RH	Input Power	60Vac
Tested By	Noah Chang		

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	7225.02	-42.70	-40.00	-2.70	1.00 H	28	44.18	-86.88
2	7275.06	-42.31	-40.00	-2.31	1.28 H	20	44.37	-86.68
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	7225.02	-43.48	-40.00	-3.48	2.15 V	212	43.40	-86.88
2	7275.06	-43.09	-40.00	-3.09	1.55 V	199	43.59	-86.68

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.

5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

Appendix – 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 and approved 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@tw.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.

--- END ---