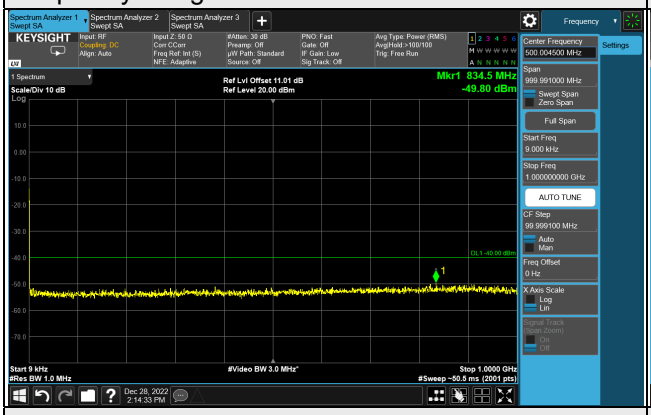
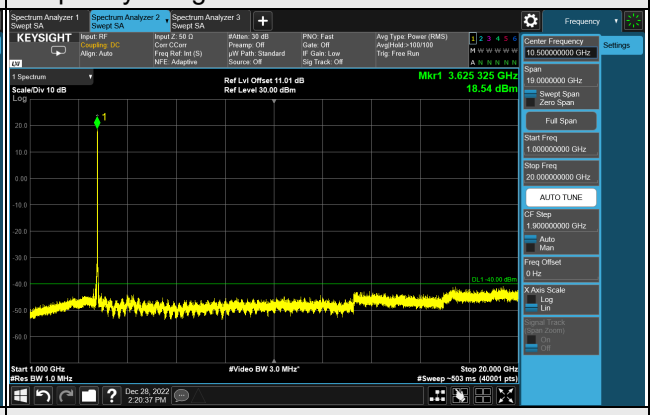
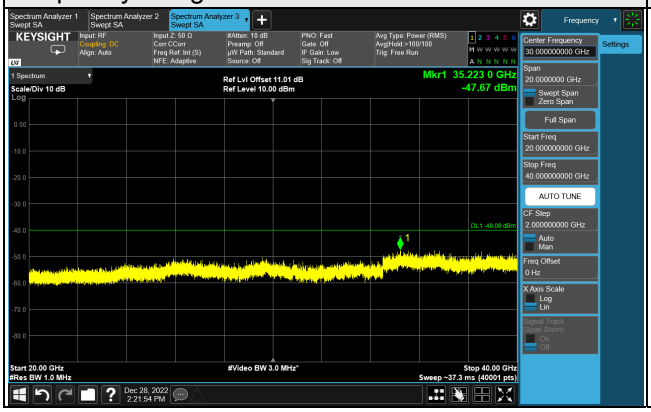
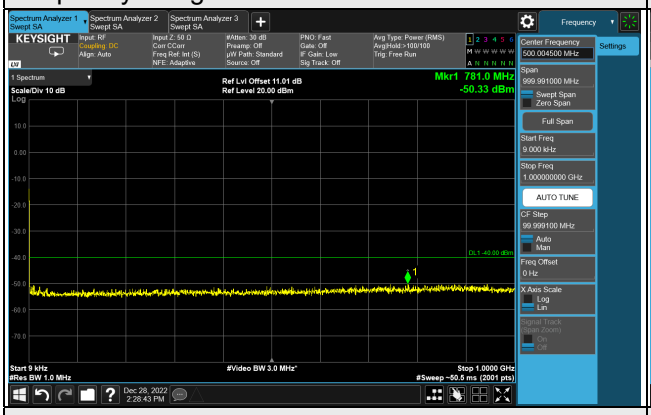
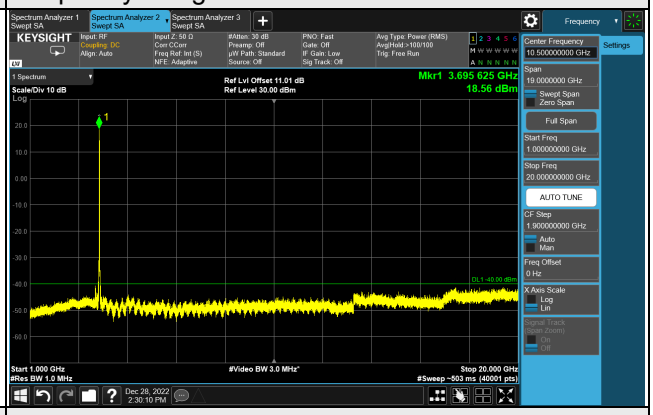
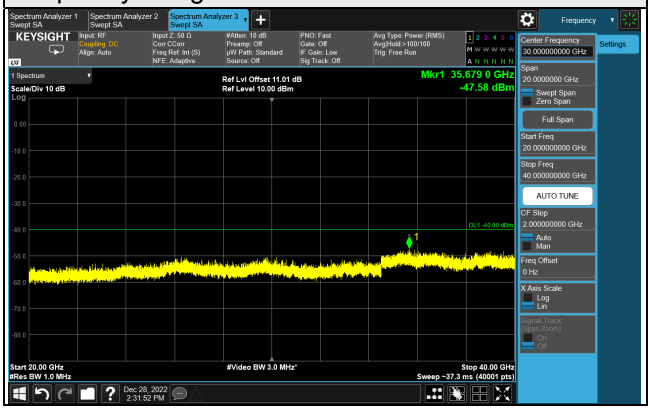
NR Band 48, Channel Bandwidth 10MHz	
Channel 641666 (3624.99MHz)	
Frequency Range : 9kHz ~ 1GHz	Frequency Range : 1GHz ~ 20GHz
	
Frequency Range : 20GHz ~ 40GHz	
	

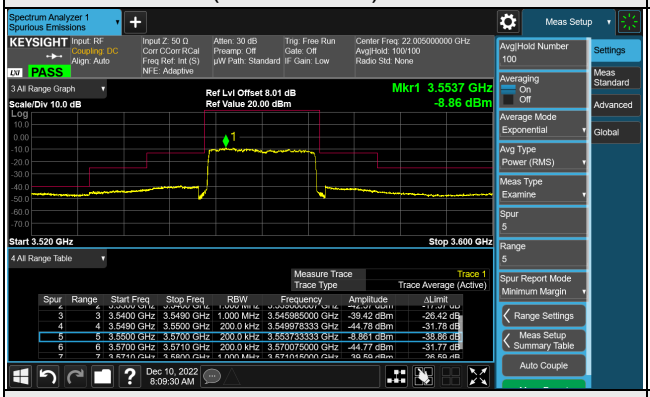
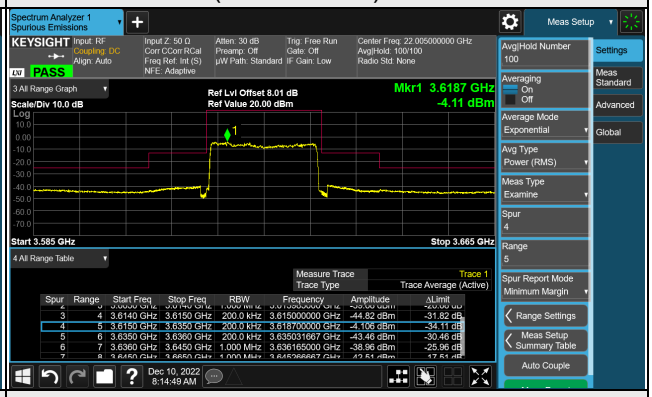
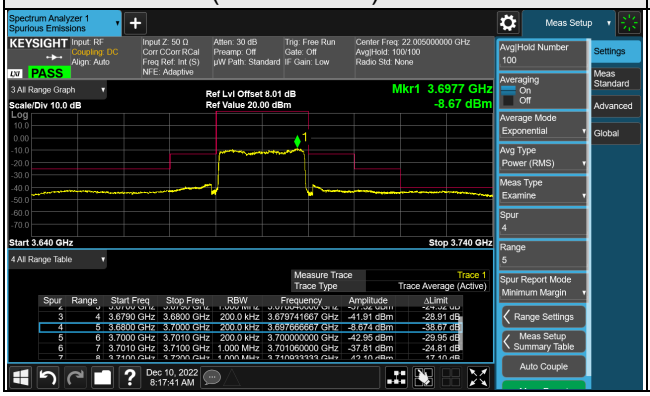
Note:

1. The signal at 9 kHz is IF signal from spectrum analyzer.
2. Ref Lvl Offset = Attenuator (6dB) + Cable loss (2dB) + 10log($Numbers_{Ant}$) (3.01dB) = 11.01dB

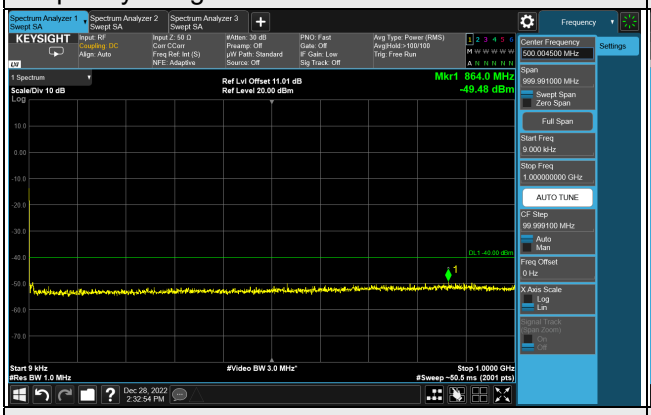
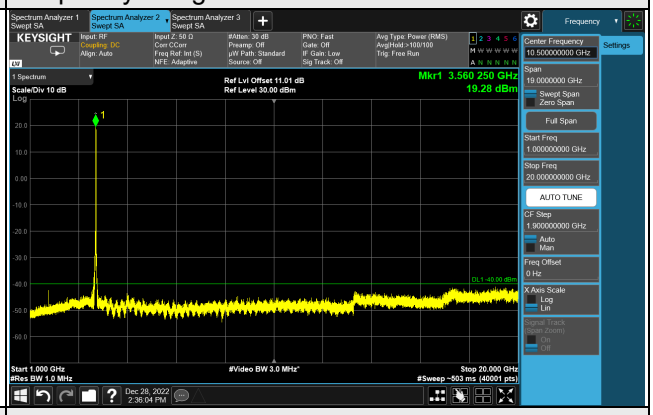
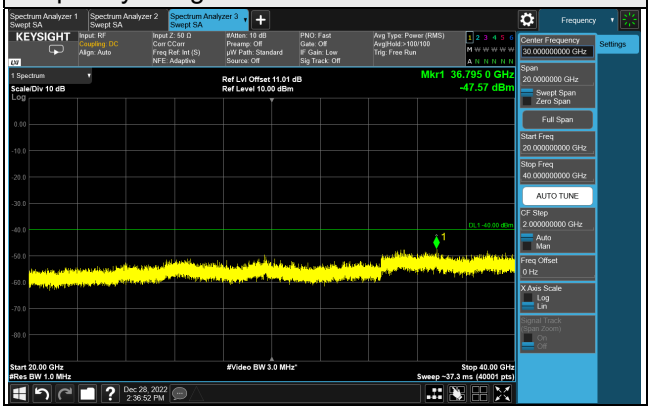
NR Band 48, Channel Bandwidth 10MHz	
Channel 646332 (3694.98MHz)	
Frequency Range : 9kHz ~ 1GHz	Frequency Range : 1GHz ~ 20GHz
	
Frequency Range : 20GHz ~ 40GHz	
	

Note:

1. The signal at 9 kHz is IF signal from spectrum analyzer.
2. Ref Lvl Offset = Attenuator (6dB) + Cable loss (2dB) + 10log($Numbers_{Ant}$) (3.01dB) = 11.01dB

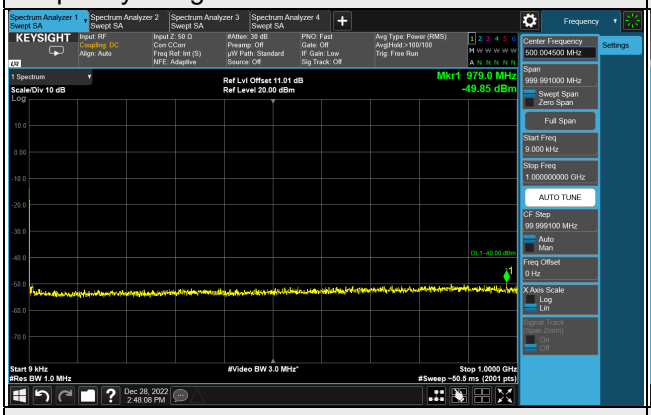
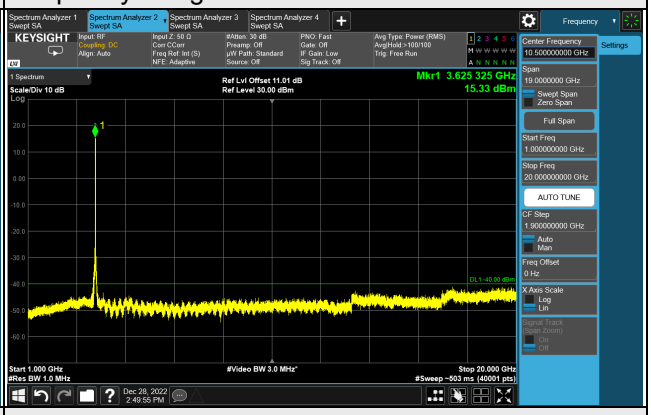
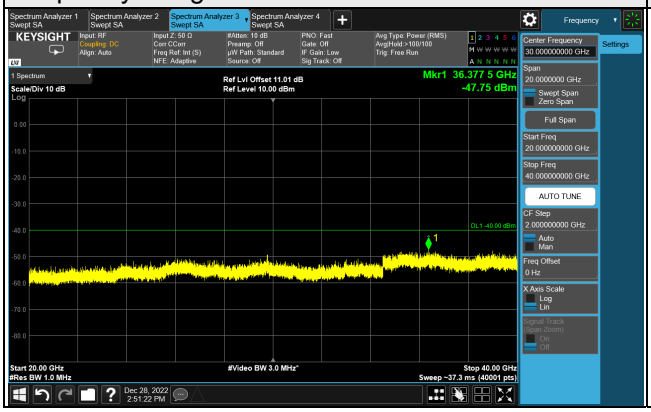
NR Band 48, Channel Bandwidth 20MHz	
Channel 637334 (3560.01MHz)	Channel 641666 (3624.99MHz)
	
Channel 646000 (3690.00MHz)	
	

Ref Lvl Offset = Attenuator (3dB) + Cable loss (2dB) + 10log($Numbers_{Ant}$) (3.01dB) = 8.01dB

NR Band 48, Channel Bandwidth 20MHz	
Channel 637334 (3560.01MHz)	
Frequency Range : 9kHz ~ 1GHz	Frequency Range : 1GHz ~ 20GHz
	
Frequency Range : 20GHz ~ 40GHz	
	

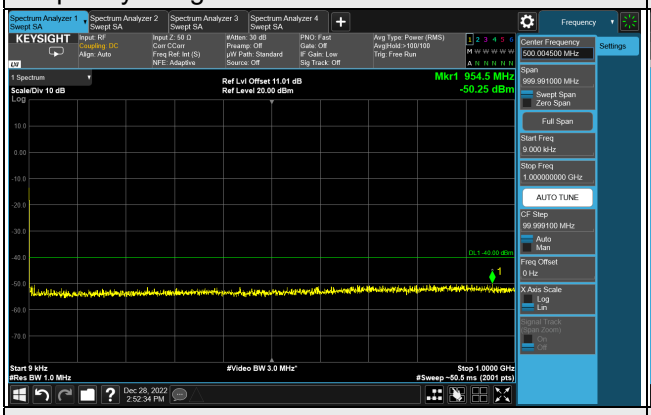
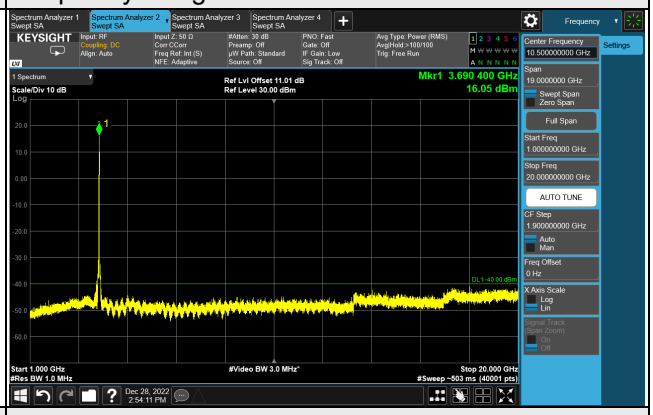
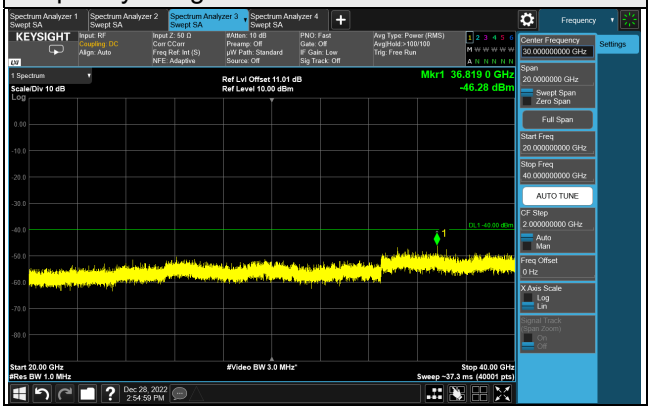
Note:

1. The signal at 9 kHz is IF signal from spectrum analyzer.
2. Ref Lvl Offset = Attenuator (6dB) + Cable loss (2dB) + 10log(Numbers$_{Ant}$) (3.01dB) = 11.01dB

NR Band 48, Channel Bandwidth 20MHz	
Channel 641666 (3624.99MHz)	
Frequency Range : 9kHz ~ 1GHz	Frequency Range : 1GHz ~ 20GHz
	
Frequency Range : 20GHz ~ 40GHz	
	

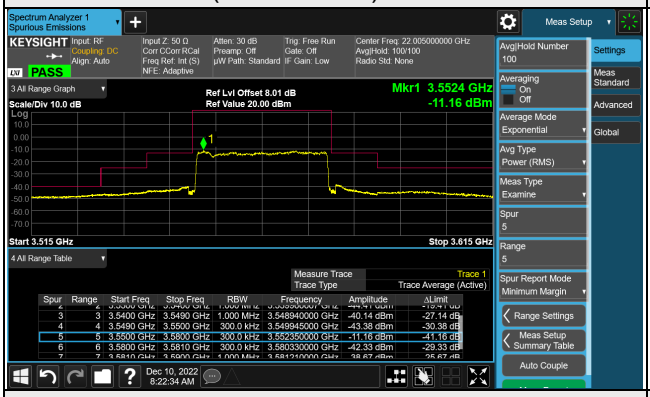
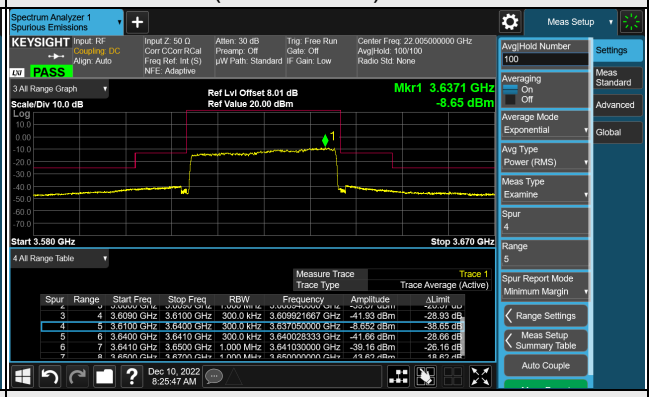
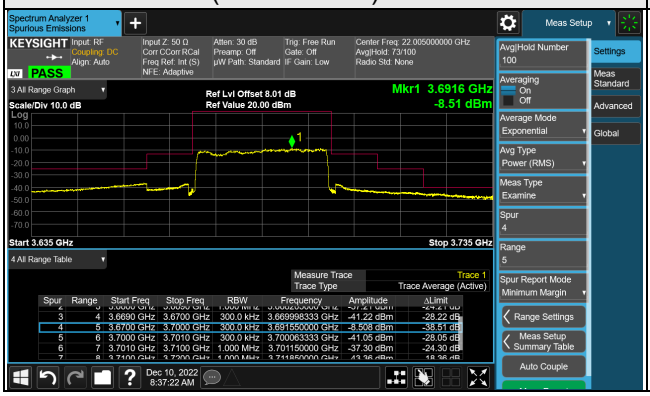
Note:

1. The signal at 9 kHz is IF signal from spectrum analyzer.
2. Ref Lvl Offset = Attenuator (6dB) + Cable loss (2dB) + 10log($Numbers_{Ant}$) (3.01dB) = 11.01dB

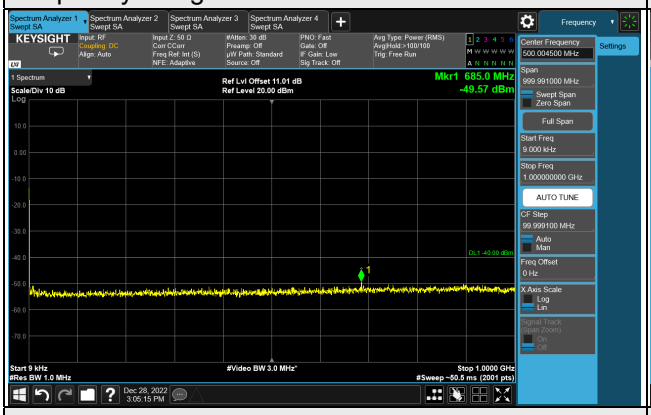
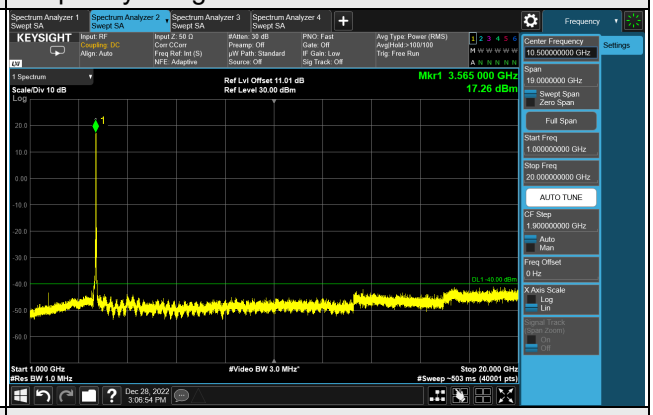
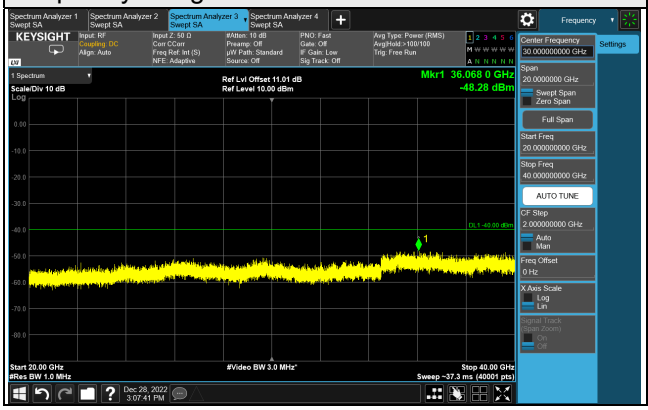
NR Band 48, Channel Bandwidth 20MHz	
Channel 646000 (3690.00MHz)	
Frequency Range : 9kHz ~ 1GHz	Frequency Range : 1GHz ~ 20GHz
	
Frequency Range : 20GHz ~ 40GHz	
	

Note:

1. The signal at 9 kHz is IF signal from spectrum analyzer.
2. Ref Lvl Offset = Attenuator (6dB) + Cable loss (2dB) + 10log(Numbers$_{Ant}$) (3.01dB) = 11.01dB

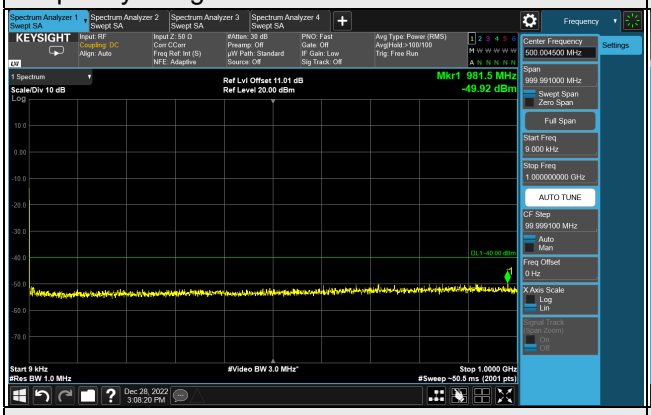
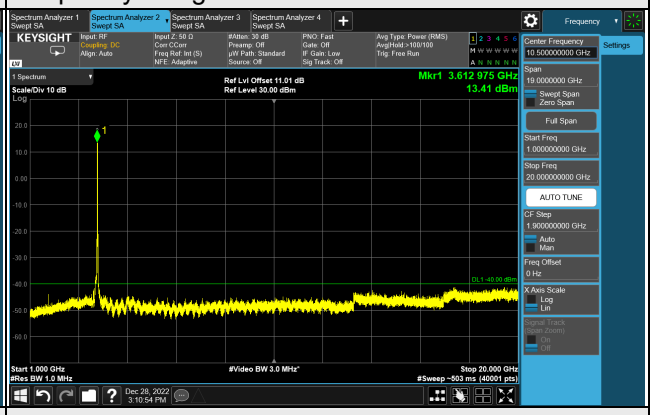
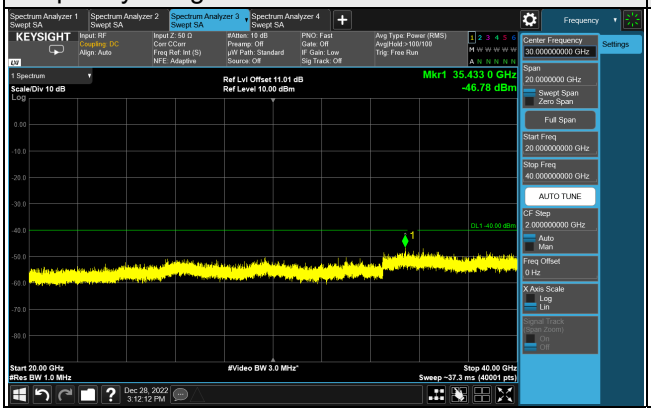
NR Band 48, Channel Bandwidth 30MHz	
Channel 637668 (3565.02MHz)	Channel 641666 (3624.99MHz)
	
Channel 645666 (3684.99MHz)	
	

Ref Lvl Offset = Attenuator (3dB) + Cable loss (2dB) + 10log($Numbers_{Ant}$) (3.01dB) = 8.01dB

NR Band 48, Channel Bandwidth 30MHz	
Channel 637668 (3565.02MHz)	
Frequency Range : 9kHz ~ 1GHz	Frequency Range : 1GHz ~ 20GHz
	
Frequency Range : 20GHz ~ 40GHz	
	

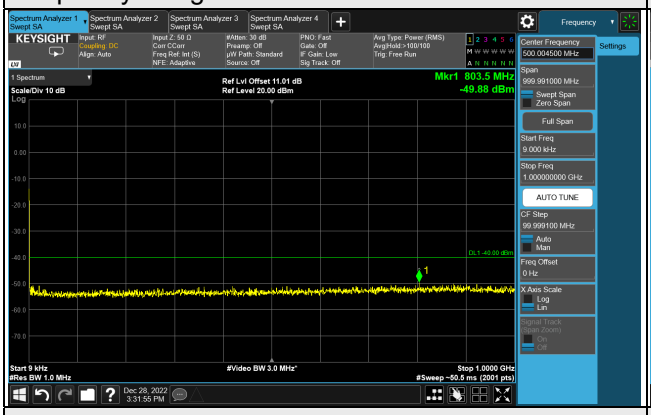
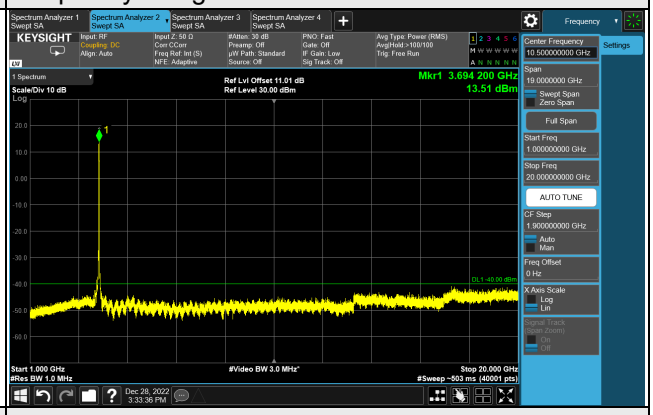
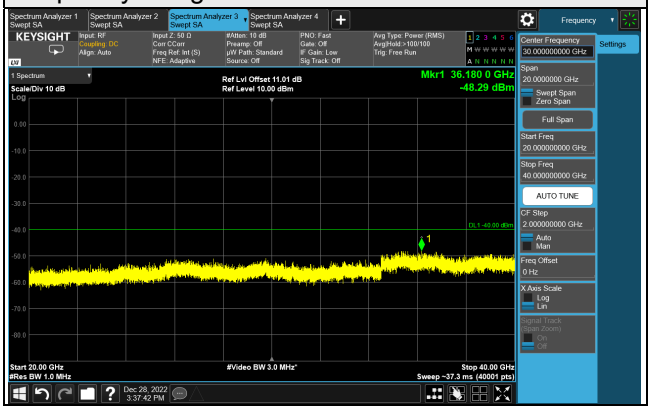
Note:

1. The signal at 9 kHz is IF signal from spectrum analyzer.
2. Ref Lvl Offset = Attenuator (6dB) + Cable loss (2dB) + 10log(Numbers$_{Ant}$) (3.01dB) = 11.01dB

NR Band 48, Channel Bandwidth 30MHz	
Channel 641666 (3624.99MHz)	
Frequency Range : 9kHz ~ 1GHz	Frequency Range : 1GHz ~ 20GHz
	
Frequency Range : 20GHz ~ 40GHz	
	

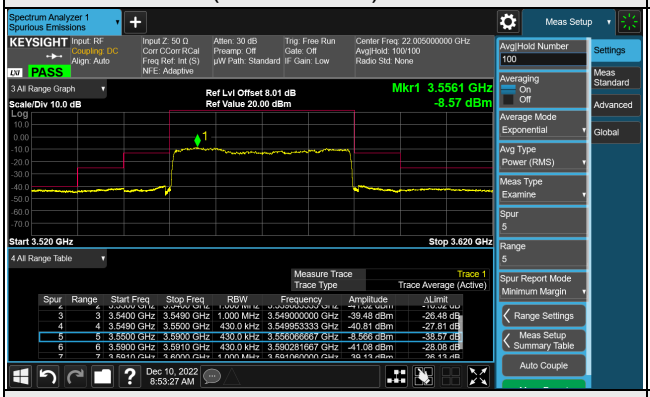
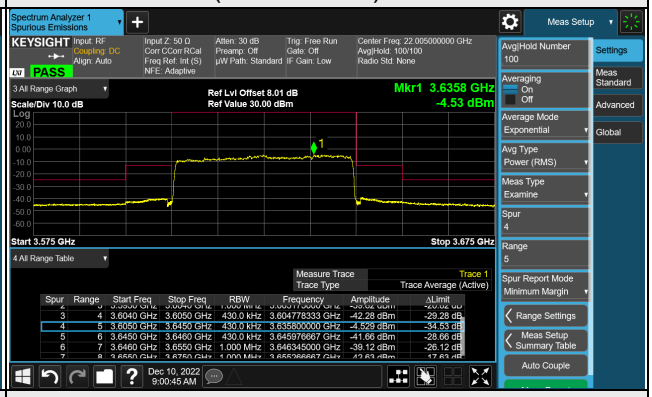
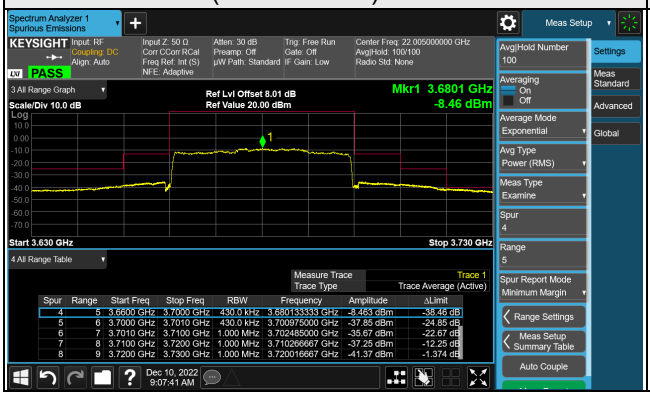
Note:

1. The signal at 9 kHz is IF signal from spectrum analyzer.
2. Ref Lvl Offset = Attenuator (6dB) + Cable loss (2dB) + 10log($Numbers_{Ant}$) (3.01dB) = 11.01dB

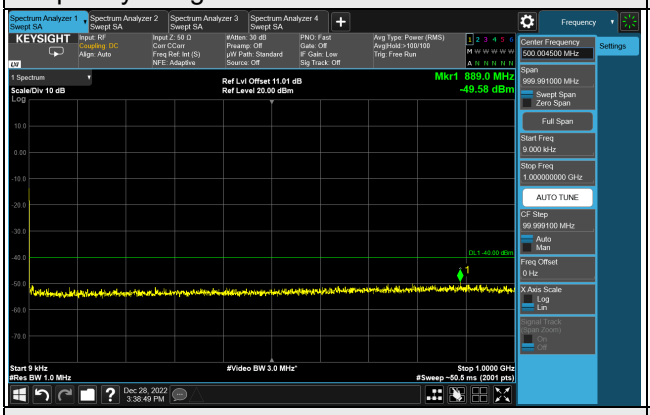
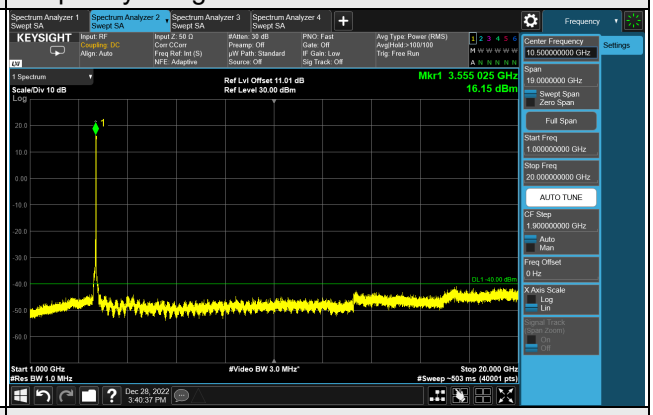
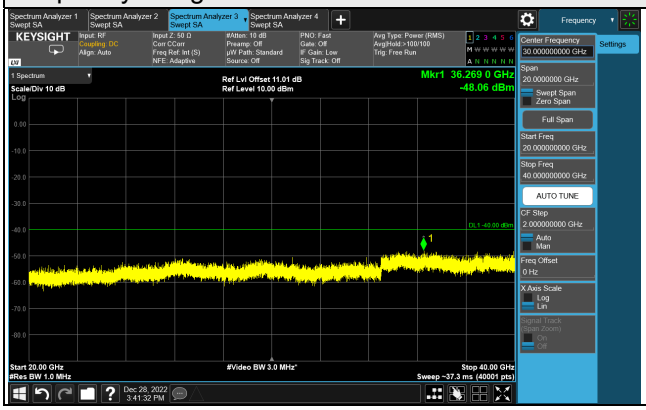
NR Band 48, Channel Bandwidth 30MHz	
Channel 645666 (3684.99MHz)	
Frequency Range : 9kHz ~ 1GHz	Frequency Range : 1GHz ~ 20GHz
	
Frequency Range : 20GHz ~ 40GHz	
	

Note:

1. The signal at 9 kHz is IF signal from spectrum analyzer.
2. Ref Lvl Offset = Attenuator (6dB) + Cable loss (2dB) + 10log(Numbers$_{Ant}$) (3.01dB) = 11.01dB

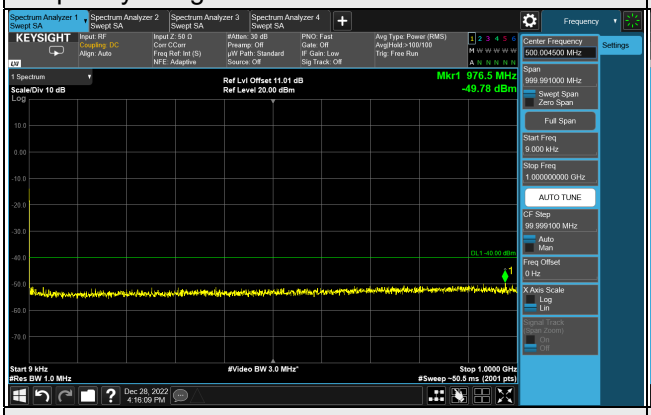
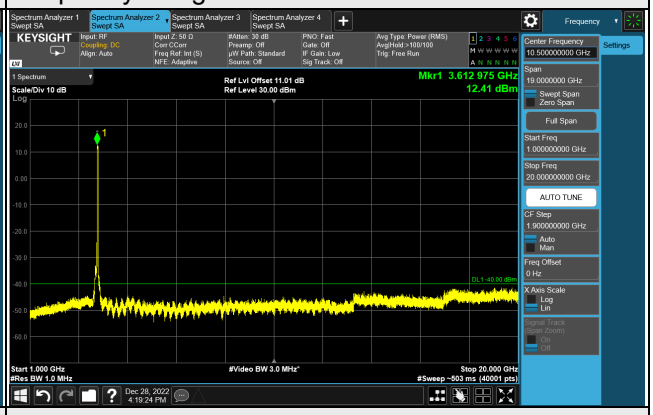
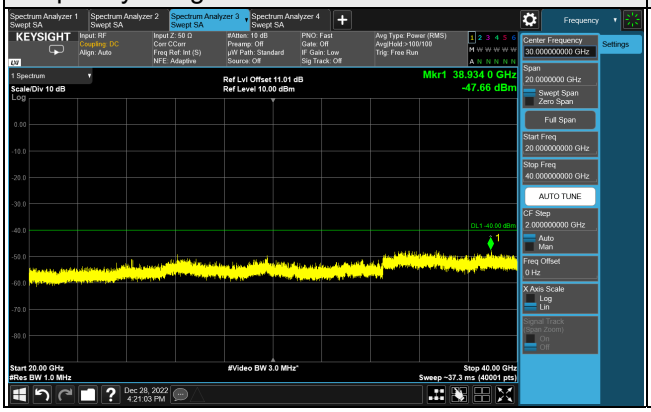
NR Band 48, Channel Bandwidth 40MHz	
Channel 638000 (3570.00MHz)	Channel 641666 (3624.99MHz)
	
Channel 645332 (3679.98MHz)	
	

Ref Lvl Offset = Attenuator (3dB) + Cable loss (2dB) + 10log($Numbers_{Ant}$) (3.01dB) = 8.01dB

NR Band 48, Channel Bandwidth 40MHz	
Channel 638000 (3570.00MHz)	
Frequency Range : 9kHz ~ 1GHz	Frequency Range : 1GHz ~ 20GHz
	
Frequency Range : 20GHz ~ 40GHz	
	

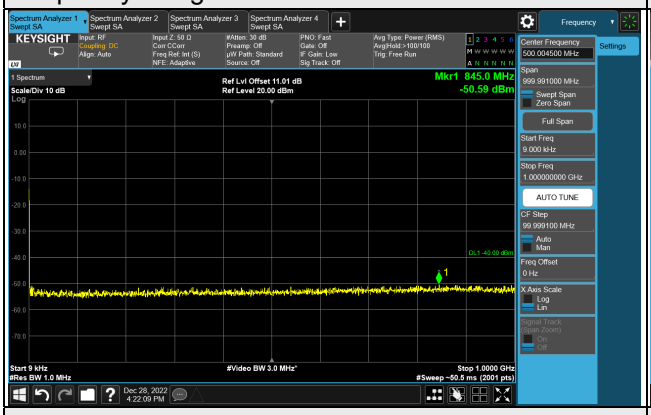
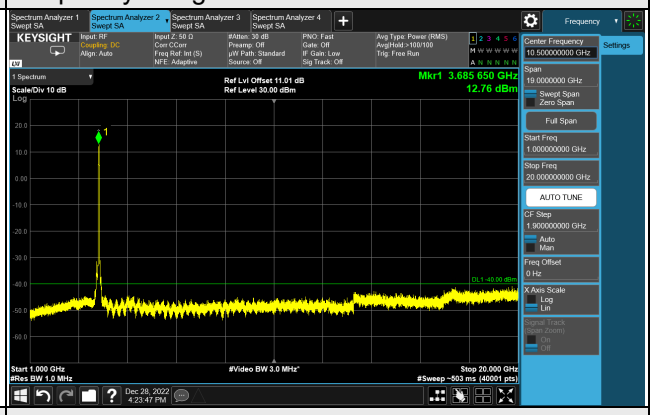
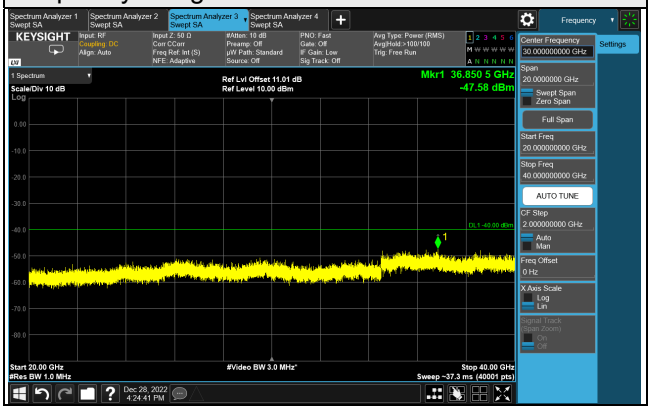
Note:

1. The signal at 9 kHz is IF signal from spectrum analyzer.
2. Ref Lvl Offset = Attenuator (6dB) + Cable loss (2dB) + 10log(Numbers$_{Ant}$) (3.01dB) = 11.01dB

NR Band 48, Channel Bandwidth 40MHz	
Channel 641666 (3624.99MHz)	
Frequency Range : 9kHz ~ 1GHz	Frequency Range : 1GHz ~ 20GHz
	
Frequency Range : 20GHz ~ 40GHz	
	

Note:

1. The signal at 9 kHz is IF signal from spectrum analyzer.
2. Ref Lvl Offset = Attenuator (6dB) + Cable loss (2dB) + 10log($Numbers_{Ant}$) (3.01dB) = 11.01dB

NR Band 48, Channel Bandwidth 40MHz	
Channel 645332 (3679.98MHz)	
Frequency Range : 9kHz ~ 1GHz	Frequency Range : 1GHz ~ 20GHz
	
Frequency Range : 20GHz ~ 40GHz	
	

Note:

1. The signal at 9 kHz is IF signal from spectrum analyzer.
2. Ref Lvl Offset = Attenuator (6dB) + Cable loss (2dB) + 10log(Numbers$_{Ant}$) (3.01dB) = 11.01dB

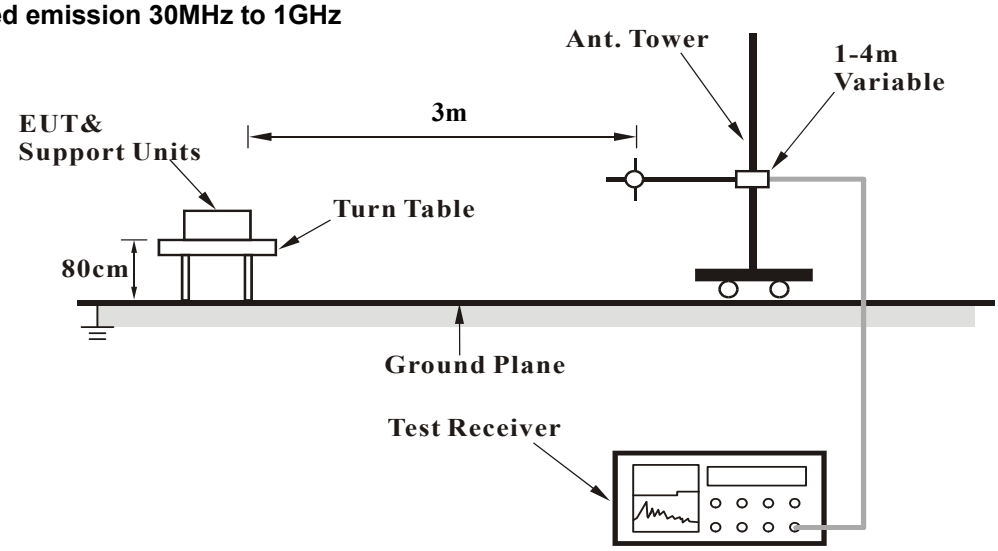
4.8 Radiated Emission Measurement

4.8.1 Limits of Radiated Emission Measurement

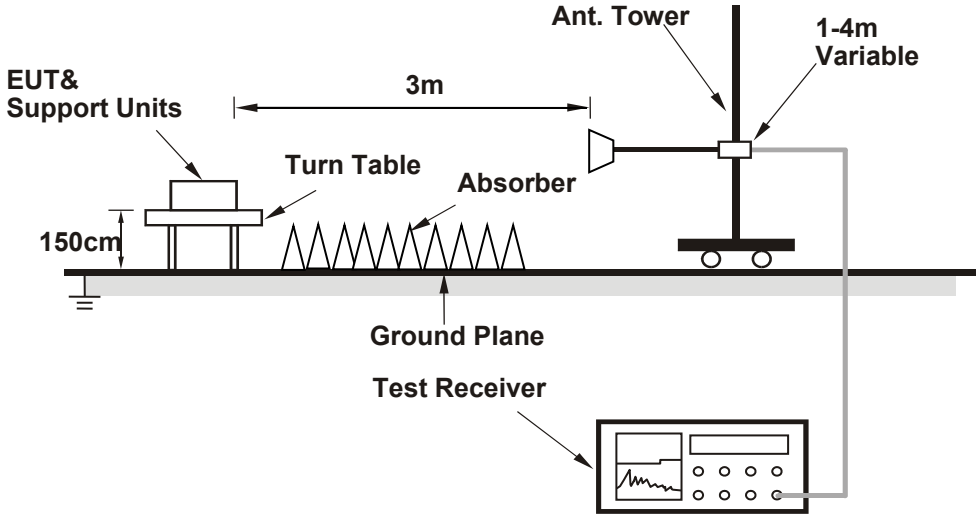
The power of any emissions below 3530 MHz or above 3720 MHz shall not exceed −40dBm/MHz.

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 Agilent	N9038A	MY55420137	Apr. 27, 2022	Apr. 26, 2023
Spectrum Analyzer R&S	FSW43	101867	Jan. 07, 2022	Jan. 06, 2023
Loop Antenna TESEQ	HLA 6121	45745	Jul. 27, 2022	Jul. 26, 2023
Pre-amplifier EMCI	EMC001340	980201	Sep. 23, 2022	Sep. 22, 2023
RF Coaxial Cable EMCI	5D-NM-BM	140903+140902	Jan. 15, 2022	Jan. 14, 2023
Preamplifier Agilent	8447D	2944A10638	May 14, 2022	May 13, 2023
BILOG Antenna SCHWARZBECK	VULB9168	9168-160	Oct. 20, 2022	Oct. 19, 2023
RF signal cable Woken	8D-FB	Cable-CH9-01	May 14, 2022	May 13, 2023
HORN Antenna SCHWARZBECK	9120D	9120D-1169	Nov. 13, 2022	Nov. 12, 2023
Preamplifier Agilent	8449B	3008A02367	Feb. 16, 2022	Feb. 15, 2023
RF signal cable HUBER+SUHNER&EMCI	SUCOFLEX 104 & EMC104-SM-SM8000	CABLE-CH9-02 (248780+171006)	Jan. 15, 2022	Jan. 14, 2023
RF signal cable HUBER+SUHNER	SUCOFLEX 104	CABLE-CH9-(250795/4)	Jan. 15, 2022	Jan. 14, 2023
RF FLITER MICRO-TRONICS	BRM50716	060	Jan. 10, 2022	Jan. 09, 2023
RF FLITER MICRO-TRONICS	BRM17690	004	Jan. 10, 2022	Jan. 09, 2023
Pre-Amplifier EMCI	EMC 184045	980116	Oct. 01, 2022	Sep. 30, 2023
HORN Antenna SCHWARZBECK	BBHA 9170	9170-480	Nov. 13, 2022	Nov. 12, 2023
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170243	Nov. 13, 2022	Nov. 12, 2023
RF Coaxial Cable EMCI	EMC102-KM-KM-3000	150929	Jul. 09, 2022	Jul. 08, 2023
RF Coaxial Cable EMCI	EMC102-KM-KM-600	150928	Jul. 09, 2022	Jul. 08, 2023
Software BV ADT	ADT_Radiated_V7.6.15.9.5	NA	NA	NA
Antenna Tower &Turn BV ADT	AT100	AT93021705	NA	NA
Turn Table BV ADT	TT100	TT93021705	NA	NA
Turn Table Controller BV ADT	SC100	SC93021705	NA	NA
Boresight antenna tower fixture BV	BAF-02	5	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 HY - 966 chamber 4.

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 (dBμV/m) + 20log(D) - 104.8; where D is the measurement distance (in the far field region) in m.
   - ERP (dBm) = E (dBμV/m) + 20log(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.
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

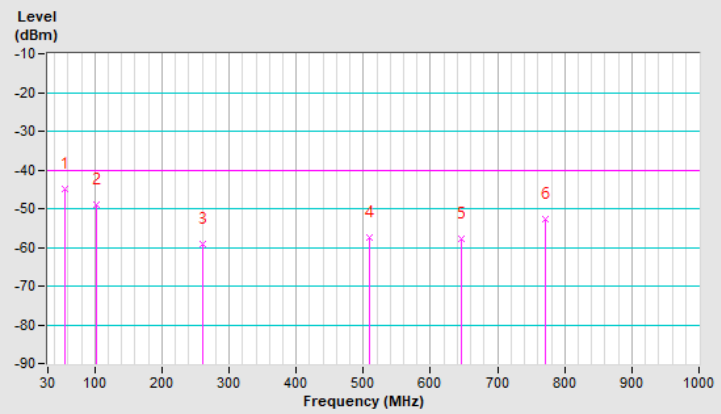
NR Band 48, Channel Bandwidth 10MHz

Mode	TX channel 646332 (3694.98MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	23deg. C, 67%RH	Input Power	120Vac, 60Hz
Tested By	Adair Peng	Test Mode	A

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	56.19	-44.80	-40.00	-4.80	1.00 H	295	59.80	-104.60
2	101.78	-48.90	-40.00	-8.90	1.00 H	4	59.80	-108.70
3	260.86	-59.20	-40.00	-19.20	2.00 H	250	44.60	-103.80
4	508.21	-57.30	-40.00	-17.30	1.00 H	187	40.40	-97.70
5	646.92	-57.90	-40.00	-17.90	1.00 H	266	36.90	-94.80
6	771.08	-52.60	-40.00	-12.60	1.00 H	33	39.90	-92.50

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) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value.
4. The other EIRP levels were very low against the limit.

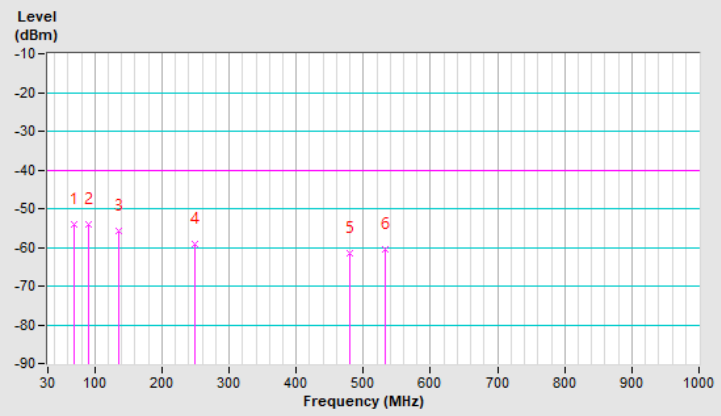


Mode	TX channel 646332 (3694.98MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	23deg. C, 67%RH	Input Power	120Vac, 60Hz
Tested By	Adair Peng	Test Mode	A

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	69.77	-53.94	-40.00	-13.94	1.50 V	225	52.37	-106.31
2	91.11	-54.22	-40.00	-14.22	1.00 V	215	55.73	-109.95
3	135.73	-55.63	-40.00	-15.63	2.00 V	141	49.32	-104.95
4	249.22	-59.21	-40.00	-19.21	1.50 V	323	45.04	-104.25
5	479.11	-61.62	-40.00	-21.62	1.00 V	170	36.65	-98.27
6	533.43	-60.60	-40.00	-20.60	1.50 V	60	36.63	-97.23

Remarks:

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



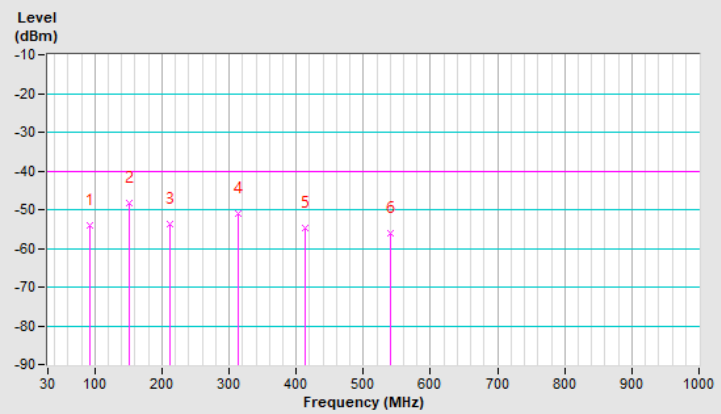
NR Band 48, Channel Bandwidth 10MHz

Mode	TX channel 646332 (3694.98MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	23deg. C, 67%RH	Input Power	56Vdc
Tested By	Adair Peng	Test Mode	B

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	92.08	-54.23	-40.00	-14.23	1.00 H	213	55.60	-109.83
2	151.25	-48.37	-40.00	-8.37	1.00 H	145	55.74	-104.11
3	212.36	-53.79	-40.00	-13.79	2.00 H	111	52.78	-106.57
4	314.21	-50.97	-40.00	-10.97	1.00 H	227	50.76	-101.73
5	414.12	-54.84	-40.00	-14.84	1.50 H	16	44.99	-99.83
6	541.19	-56.17	-40.00	-16.17	1.00 H	43	41.01	-97.18

Remarks:

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

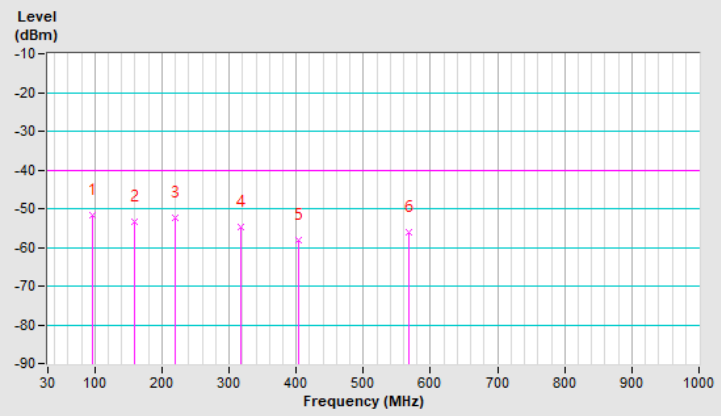


Mode	TX channel 646332 (3694.98MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	23deg. C, 67%RH	Input Power	56Vdc
Tested By	Adair Peng	Test Mode	B

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	96.93	-51.62	-40.00	-11.62	1.50 V	239	57.88	-109.50
2	159.01	-53.33	-40.00	-13.33	1.00 V	100	50.57	-103.90
3	220.12	-52.37	-40.00	-12.37	1.00 V	6	54.02	-106.39
4	318.09	-54.81	-40.00	-14.81	1.50 V	181	46.89	-101.70
5	403.45	-58.04	-40.00	-18.04	2.00 V	323	42.09	-100.13
6	567.38	-56.06	-40.00	-16.06	1.00 V	5	40.61	-96.67

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.



Above 1GHz

NR Band 48, Channel Bandwidth 10MHz

Mode	TX channel 637000 (3555.00MHz)	Frequency Range	1GHz ~ 40GHz
Environmental Conditions	23deg. C, 67%RH	Input Power	120Vac, 60Hz
Tested By	Adair Peng		

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	-41.45	-40.00	-1.45	2.38 H	27	43.00	-84.45
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	-41.25	-40.00	-1.25	2.15 V	3	43.20	-84.45

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.

Mode	TX channel 641666 (3624.99MHz)	Frequency Range	1GHz ~ 40GHz
Environmental Conditions	23deg. C, 67%RH	Input Power	120Vac, 60Hz
Tested By	Adair Peng		

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	-41.32	-40.00	-1.32	2.42 H	31	42.80	-84.12
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	7249.98	-41.12	-40.00	-1.12	2.08 V	5	43.00	-84.12

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) + 20log(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	23deg. C, 67%RH	Input Power	120Vac, 60Hz
Tested By	Adair Peng		

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	-41.25	-40.00	-1.25	2.31 H	24	42.70	-83.95
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	**7389.96**	**-40.85**	**-40.00**	**-0.85**	**2.13 V**	**3**	**43.10**	**-83.95**

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) + 20log(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	23deg. C, 67%RH	Input Power	120Vac, 60Hz
Tested By	Adair Peng		

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	-41.80	-40.00	-1.80	2.46 H	33	42.60	-84.40
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	-41.50	-40.00	-1.50	2.26 V	5	42.90	-84.40

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(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	23deg. C, 67%RH	Input Power	120Vac, 60Hz
Tested By	Adair Peng		

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	-41.32	-40.00	-1.32	2.46 H	25	42.80	-84.12
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	7249.98	-41.02	-40.00	-1.02	2.28 V	7	43.10	-84.12

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) + 20log(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	23deg. C, 67%RH	Input Power	120Vac, 60Hz
Tested By	Adair Peng		

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	-41.48	-40.00	-1.48	2.36 H	28	42.50	-83.98
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	7380.00	-41.08	-40.00	-1.08	2.21 V	9	42.90	-83.98

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) + 20log(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	23deg. C, 67%RH	Input Power	120Vac, 60Hz
Tested By	Adair Peng		

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	-41.47	-40.00	-1.47	2.42 H	33	43.00	-84.47
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	-41.27	-40.00	-1.27	2.20 V	10	43.20	-84.47

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.

Mode	TX channel 641666 (3624.99MHz)	Frequency Range	1GHz ~ 40GHz
Environmental Conditions	23deg. C, 67%RH	Input Power	120Vac, 60Hz
Tested By	Adair Peng		

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	-41.42	-40.00	-1.42	2.46 H	22	42.70	-84.12
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	7249.98	-41.12	-40.00	-1.12	2.18 V	11	43.00	-84.12

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) + 20log(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	23deg. C, 67%RH	Input Power	120Vac, 60Hz
Tested By	Adair Peng		

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	-41.54	-40.00	-1.54	2.31 H	25	42.50	-84.04
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	-41.24	-40.00	-1.24	2.22 V	3	42.80	-84.04

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.

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:

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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.

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