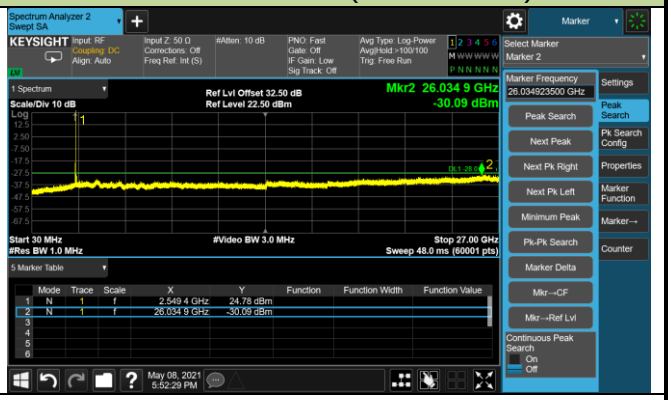
90MHz Channel Bandwidth - Port 1

Channel 508200 (2541.00MHz)

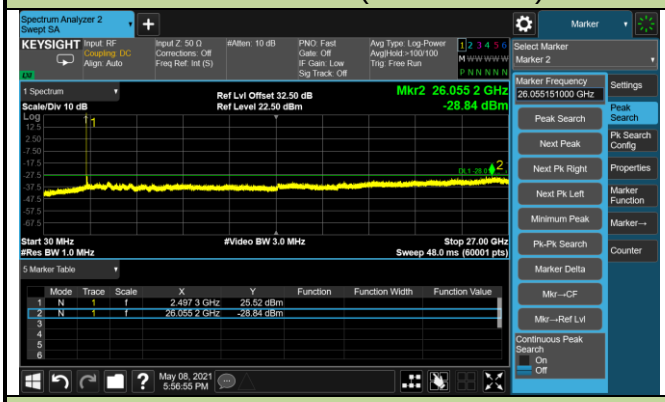
Channel 518598 (2592.99MHz)



Channel 528996 (2644.98MHz)

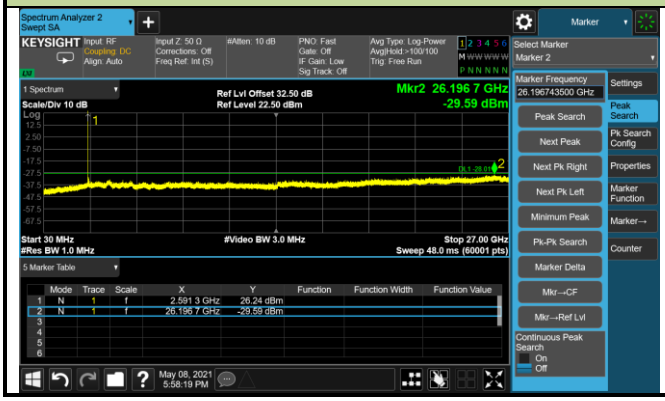
100MHz Channel Bandwidth - Port 1

Channel 509202 (2546.01MHz)



Channel 518598 (2592.99MHz)

Channel 528000 (2640.00MHz)



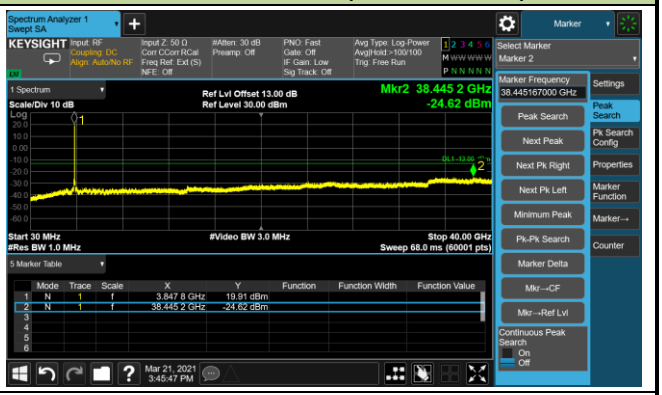
Product	5G Sub-6 GHz M.2 Module	Test Site	SIP-SR5
Test Engineer	Gordon Qi	Test Date	2021/03/21
Test Band	n77_SA_HPUE		

Channel	Frequency (MHz)	Channel Bandwidth (MHz)	Frequency Range (MHz)	Max Spurious Emissions (dBm)	Limit (dBm)	Result
646722	3710.01	20	30 ~ 40000	-25.18	≤ -13.00	Pass
656000	3840.00	20	30 ~ 40000	-24.62	≤ -13.00	Pass
664666	3969.99	20	30 ~ 40000	-24.59	≤ -13.00	Pass
648000	3720.00	40	30 ~ 40000	-25.63	≤ -13.00	Pass
656000	3840.00	40	30 ~ 40000	-24.62	≤ -13.00	Pass
664000	3960.00	40	30 ~ 40000	-24.45	≤ -13.00	Pass
648334	3725.01	50	30 ~ 40000	-25.01	≤ -13.00	Pass
656000	3840.00	50	30 ~ 40000	-24.81	≤ -13.00	Pass
663666	3954.99	50	30 ~ 40000	-24.95	≤ -13.00	Pass
648668	3730.02	60	30 ~ 40000	-24.43	≤ -13.00	Pass
656000	3840.00	60	30 ~ 40000	-25.51	≤ -13.00	Pass
663332	3949.98	60	30 ~ 40000	-25.02	≤ -13.00	Pass
649334	3740.01	80	30 ~ 40000	-24.92	≤ -13.00	Pass
656000	3840.00	80	30 ~ 40000	-24.63	≤ -13.00	Pass
662666	3939.99	80	30 ~ 40000	-25.18	≤ -13.00	Pass
649668	3745.02	90	30 ~ 40000	-25.26	≤ -13.00	Pass
656000	3840.00	90	30 ~ 40000	-25.64	≤ -13.00	Pass
662332	3934.98	90	30 ~ 40000	-25.31	≤ -13.00	Pass
650000	3750.00	100	30 ~ 40000	-34.74	≤ -13.00	Pass
656000	3840.00	100	30 ~ 40000	-31.74	≤ -13.00	Pass
662000	3930.00	100	30 ~ 40000	-34.43	≤ -13.00	Pass

20MHz Channel Bandwidth

Channel 646722 (3710.01MHz)

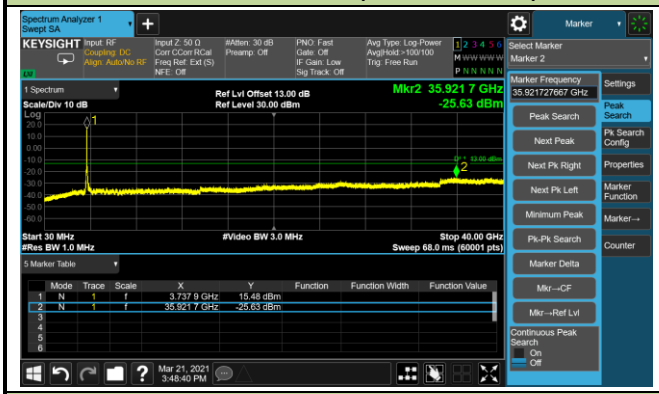
Channel 656000 (3840.00MHz)



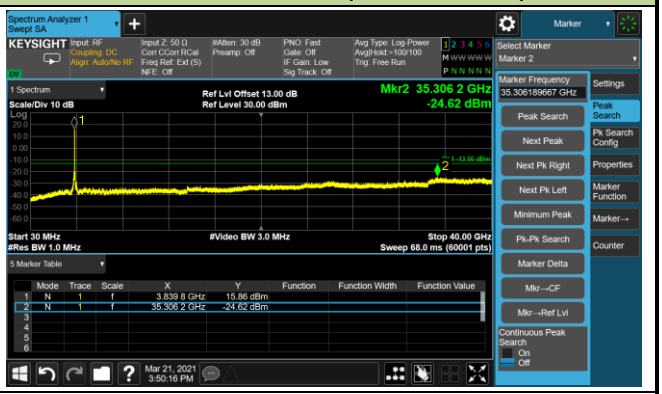
Channel 664666 (3969.99MHz)

40MHz Channel Bandwidth

Channel 648000 (3720.00MHz)



Channel 656000 (3840.00MHz)



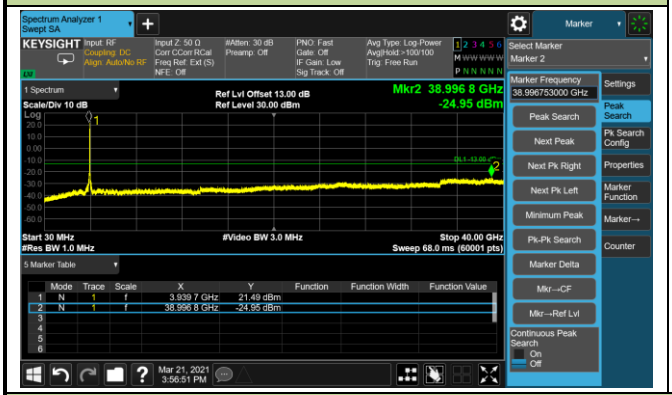
Channel 664000 (3960.00MHz)

50MHz Channel Bandwidth

Channel 648334 (3725.01MHz)

Channel 656000 (3840.00MHz)

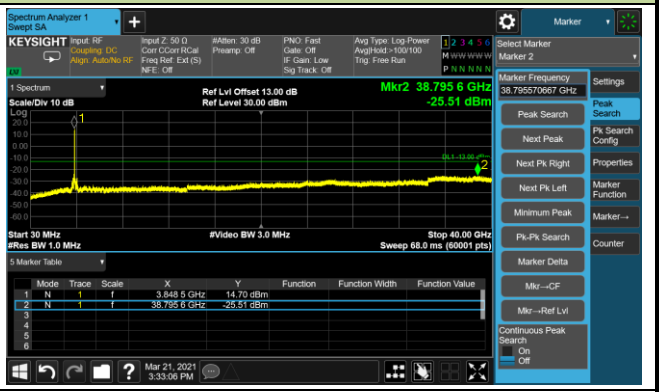
Channel 663666 (3954.99MHz)



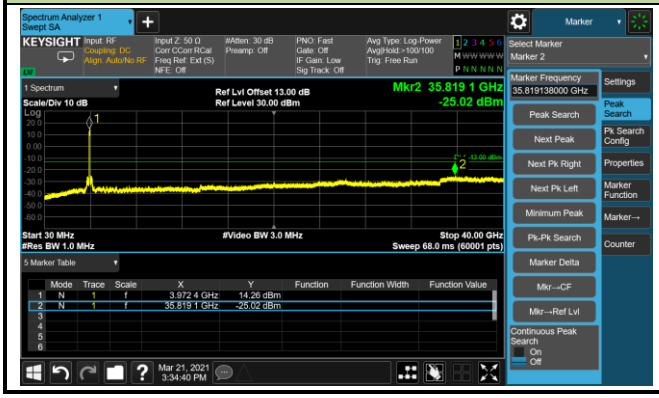
60MHz Channel Bandwidth

Channel 648668 (3730.02MHz)

Channel 656000 (3840.00MHz)



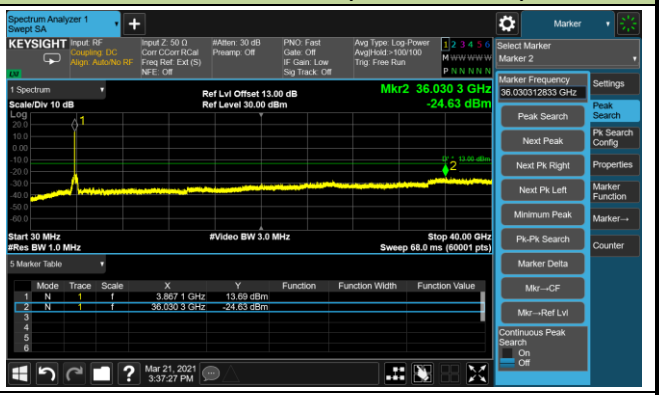
Channel 663332 (3949.98MHz)



80MHz Channel Bandwidth

Channel 649334 (3740.01MHz)

Channel 656000 (3840.00MHz)

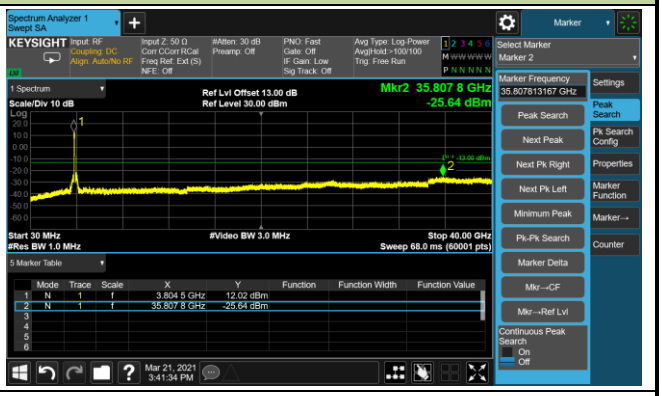


Channel 662666 (3939.99MHz)

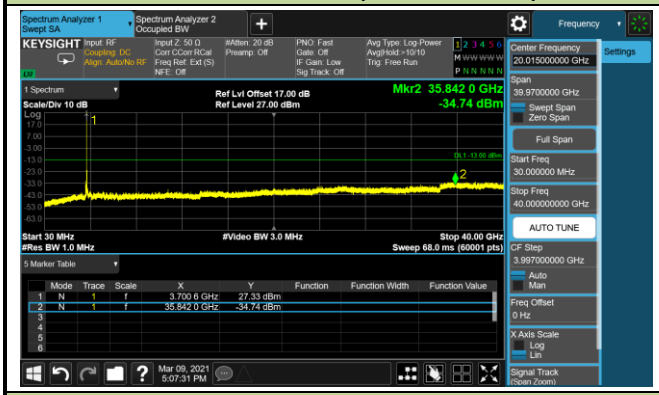
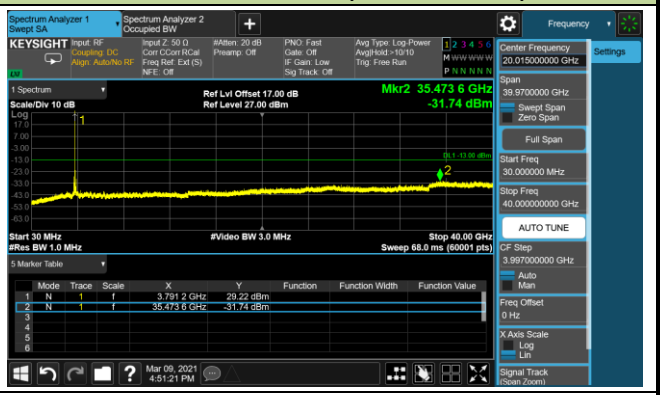
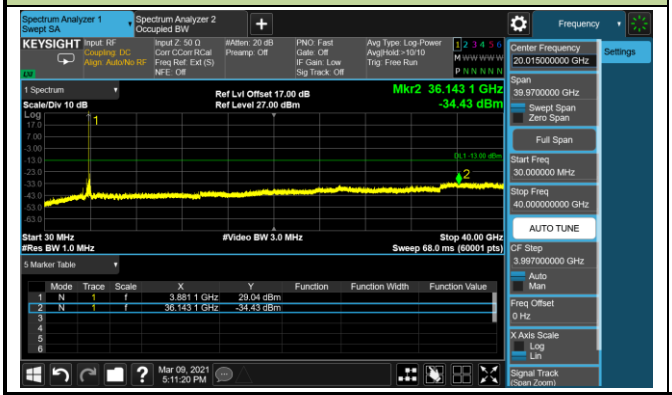
90MHz Channel Bandwidth

Channel 649668 (3745.02MHz)

Channel 656000 (3840.00MHz)



Channel 662332 (3934.98MHz)

100MHz Channel Bandwidth	
Channel 650000 (3750.00MHz)	Channel 656000 (3840.00MHz)
	
Channel 662000 (3930.00MHz)	
	

Product	5G Sub-6 GHz M.2 Module	Test Site	SIP-SR5
Test Engineer	Candy Luo	Test Date	2021/05/08
Test Band	n77_UL MIMO_HPUE		

Channel	Frequency (MHz)	Channel Bandwidth (MHz)	Frequency Range (MHz)	Max Spurious Emissions (dBm)		Limit (dBm)	Result
				Port 0	Port 3		
646722	3710.01	20	30 ~ 40000	-30.06	-29.91	≤ -16.01	Pass
656000	3840.00	20	30 ~ 40000	-30.01	-28.52	≤ -16.01	Pass
664666	3969.99	20	30 ~ 40000	-28.84	-29.14	≤ -16.01	Pass
648000	3720.00	40	30 ~ 40000	-29.90	-30.15	≤ -16.01	Pass
656000	3840.00	40	30 ~ 40000	-28.93	-28.81	≤ -16.01	Pass
664000	3960.00	40	30 ~ 40000	-28.77	-29.53	≤ -16.01	Pass
648334	3725.01	50	30 ~ 40000	-28.06	-28.88	≤ -16.01	Pass
656000	3840.00	50	30 ~ 40000	-29.30	-29.18	≤ -16.01	Pass
663666	3954.99	50	30 ~ 40000	-27.11	-30.00	≤ -16.01	Pass
648668	3730.02	60	30 ~ 40000	-29.85	-29.82	≤ -16.01	Pass
656000	3840.00	60	30 ~ 40000	-29.53	-29.80	≤ -16.01	Pass
663332	3949.98	60	30 ~ 40000	-29.47	-30.04	≤ -16.01	Pass
649334	3740.01	80	30 ~ 40000	-29.59	-29.41	≤ -16.01	Pass
656000	3840.00	80	30 ~ 40000	-29.89	-29.64	≤ -16.01	Pass
662666	3939.99	80	30 ~ 40000	-28.23	-29.95	≤ -16.01	Pass
649668	3745.02	90	30 ~ 40000	-29.44	-30.01	≤ -16.01	Pass
656000	3840.00	90	30 ~ 40000	-29.95	-29.61	≤ -16.01	Pass
662332	3934.98	90	30 ~ 40000	-30.39	-29.55	≤ -16.01	Pass
650000	3750.00	100	30 ~ 40000	-29.94	-29.94	≤ -16.01	Pass
656000	3840.00	100	30 ~ 40000	-29.21	-29.21	≤ -16.01	Pass
662000	3930.00	100	30 ~ 40000	-30.03	-30.03	≤ -16.01	Pass

20MHz Channel Bandwidth - Port 0

Channel 646722 (3710.01MHz)

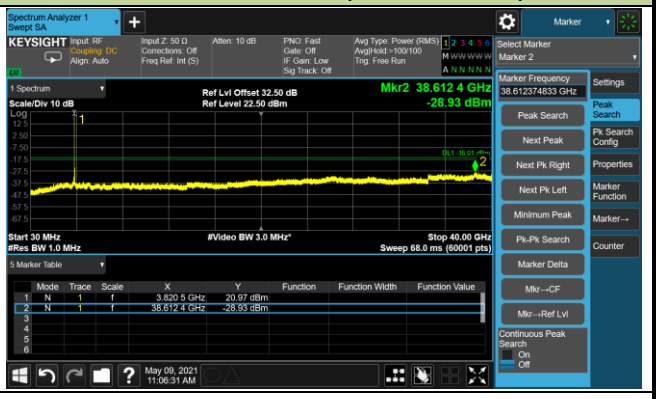
Channel 656000 (3840.00MHz)

Channel 664666 (3969.99MHz)

40MHz Channel Bandwidth - Port 0

Channel 648000 (3720.00MHz)

Channel 656000 (3840.00MHz)



Channel 664000 (3960.00MHz)

50MHz Channel Bandwidth - Port 0

Channel 648334 (3725.01MHz)

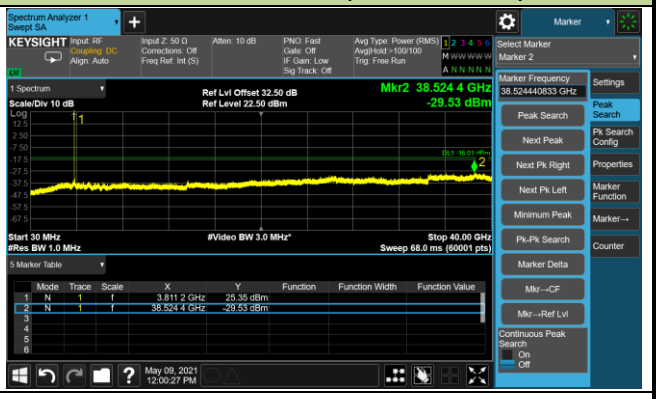
Channel 656000 (3840.00MHz)

Channel 663666 (3954.99MHz)

60MHz Channel Bandwidth - Port 0

Channel 648668 (3730.02MHz)

Channel 656000 (3840.00MHz)



Channel 663332 (3949.98MHz)

80MHz Channel Bandwidth - Port 0

Channel 649334 (3740.01MHz)

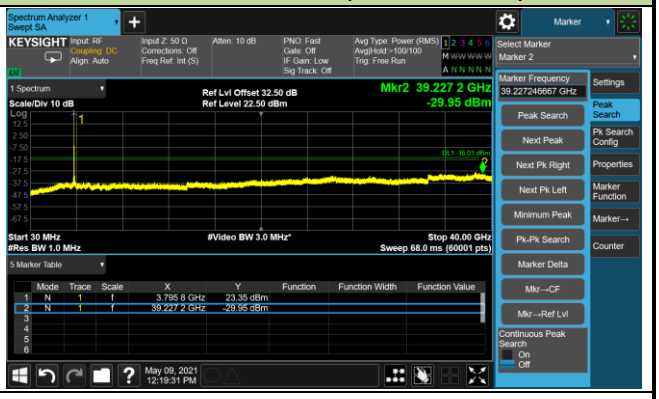
Channel 656000 (3840.00MHz)

Channel 662666 (3939.99MHz)

90MHz Channel Bandwidth - Port 0

Channel 649668 (3745.02MHz)

Channel 656000 (3840.00MHz)



Channel 662332 (3934.98MHz)

100MHz Channel Bandwidth - Port 0	
Channel 650000 (3750.00MHz)	Channel 656000 (3840.00MHz)
Channel 662000 (3930.00MHz)	

20MHz Channel Bandwidth - Port 3

Channel 646722 (3710.01MHz)

Channel 656000 (3840.00MHz)

Channel 664666 (3969.99MHz)

40MHz Channel Bandwidth - Port 3

Channel 648000 (3720.00MHz)

Channel 656000 (3840.00MHz)

Channel 664000 (3960.00MHz)

50MHz Channel Bandwidth - Port 3

Channel 648334 (3725.01MHz)

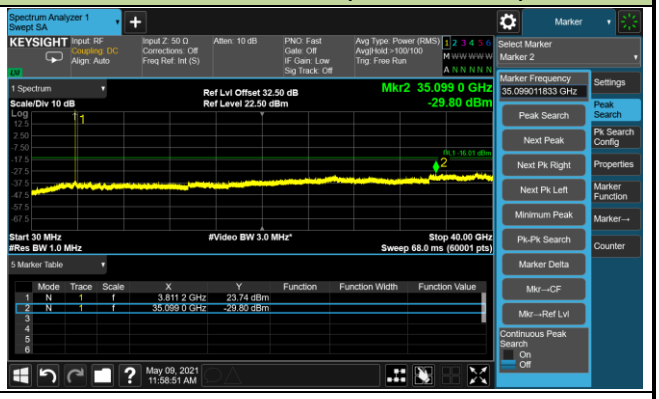
Channel 656000 (3840.00MHz)

Channel 663666 (3954.99MHz)

60MHz Channel Bandwidth - Port 3

Channel 648668 (3730.02MHz)

Channel 656000 (3840.00MHz)



Channel 663332 (3949.98MHz)

80MHz Channel Bandwidth - Port 3

Channel 649334 (3740.01MHz)

Channel 656000 (3840.00MHz)

Channel 662666 (3939.99MHz)

90MHz Channel Bandwidth - Port 3

Channel 649668 (3745.02MHz)

Channel 656000 (3840.00MHz)

Channel 662332 (3934.98MHz)

100MHz Channel Bandwidth - Port 3	
Channel 650000 (3750.00MHz)	Channel 656000 (3840.00MHz)
Channel 662000 (3930.00MHz)	

4.8. Radiated Spurious Emission Measurement

4.8.1.Test Limit

Out of band emissions: The powerof any emission outside of theauthorized operating frequency ranges must be attenuated below the transmitting power (P) by a factorof at least 43 + 10 log(P) dB. The emission limit equal to -13dBm.

For n7, n41, the powerof any emission outside of theauthorized operating frequency ranges must be attenuated below the transmitting power (P) by a factorof at least 55 + 10 log(P) dB. The emission limit equal to -25dBm.

E (dBμV/m) = EIRP (dBm) - 20 log D + 104.8; where D is the measurement distance in meters. The emission limit equal to 82.3dBμV/m or 70.3dBμV/m.

4.8.2.Test Procedure

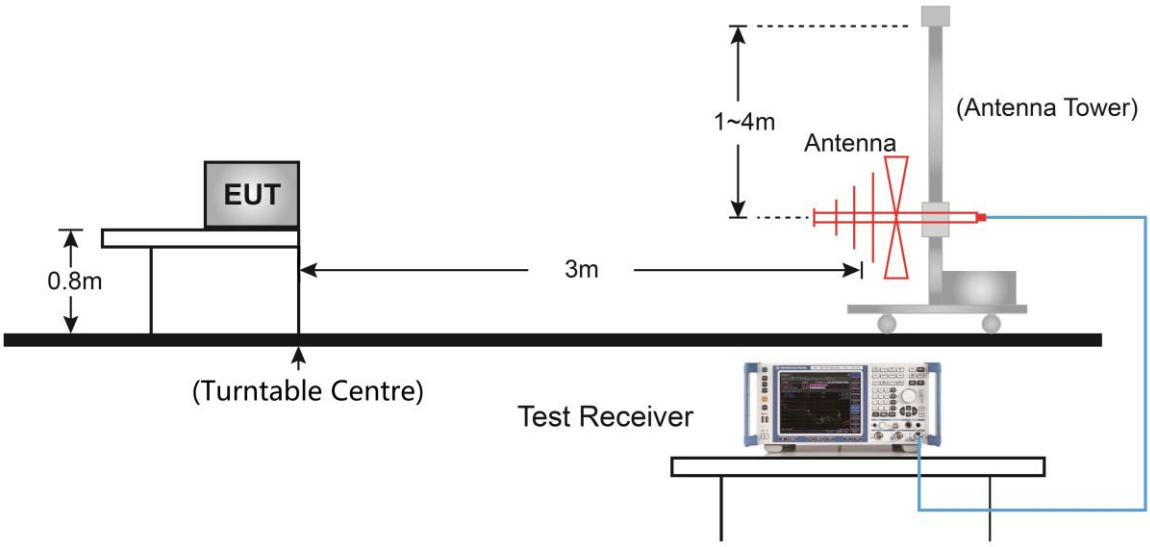
ANSI C63.26-2015 - Section 5.2.7 & 5.5

4.8.3.Test Setting

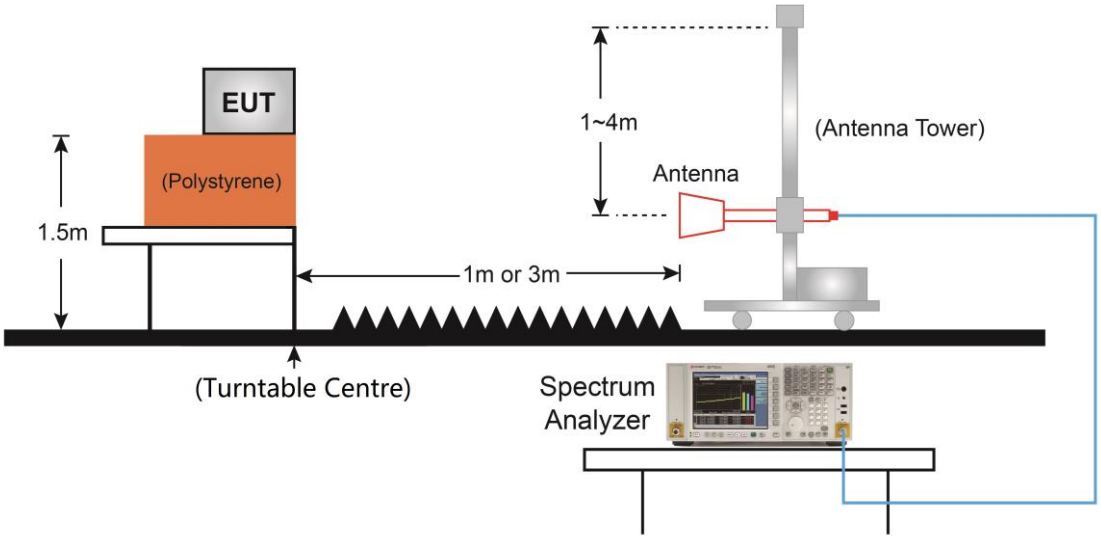
1. RBW = 1MHz
2. VBW≥ 3*RBW
3. Sweep time ≥ 10 × (number of points in sweep) × (transmission symbol period)
4. Detector = Peak
5. Trace mode = max hold
6. The trace was allowed to stabilize

4.8.4.Test Setup

Below 1GHz Test Setup:



Above 1GHz Test Setup:



4.8.5.Test Result

Product	5G Sub-6 GHz M.2 Module	Test Site	WZ-AC2
Test Engineer	Carl Chen	Test Date	2021/02/16
Test Band	n2/25_SA_5MHz_1RB_QPSK		

Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
Low Channel							
5071.5	38.8	6.0	44.8	82.3	-37.5	Peak	Horizontal
11880.0	38.2	14.9	53.1	82.3	-29.2	Peak	Horizontal
4808.0	39.0	5.7	44.7	82.3	-37.6	Peak	Vertical
5751.5	45.2	6.5	51.7	82.3	-30.6	Peak	Vertical
Middle Channel							
7094.5	38.7	9.7	48.4	82.3	-33.9	Peak	Horizontal
8607.5	39.3	11.5	50.8	82.3	-31.5	Peak	Horizontal
4808.0	39.5	5.7	45.2	82.3	-37.1	Peak	Vertical
7477.0	38.4	10.4	48.8	82.3	-33.5	Peak	Vertical
High Channel							
9177.0	39.0	13.5	52.4	82.3	-29.9	Peak	Horizontal
10902.5	37.1	15.4	52.5	82.3	-29.8	Peak	Horizontal
4034.5	40.0	3.3	43.3	82.3	-39.0	Peak	Vertical
7060.5	38.4	9.5	47.9	82.3	-34.4	Peak	Vertical
Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB).							

Product	5G Sub-6 GHz M.2 Module	Test Site	WZ-AC2
Test Engineer	Carl Chen	Test Date	2021/03/29
Test Band	n5_SA_5MHz_1RB_QPSK		

Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
Low Channel							
310.3	30.3	19.0	49.3	82.3	-33.0	Peak	Horizontal
359.3	27.7	20.0	47.7	82.3	-34.6	Peak	Horizontal
359.8	22.1	20.0	42.1	82.3	-40.2	Peak	Vertical
425.8	21.4	21.9	43.3	82.3	-39.0	Peak	Vertical
7613.0	34.6	12.5	47.1	82.3	-35.2	Peak	Horizontal
10834.5	33.6	17.5	51.1	82.3	-31.2	Peak	Horizontal
7383.5	34.4	12.7	47.1	82.3	-35.2	Peak	Vertical
13444.0	33.3	21.8	55.1	82.3	-27.2	Peak	Vertical
Middle Channel							
311.8	31.2	19.0	50.2	82.3	-32.1	Peak	Horizontal
362.2	28.0	20.1	48.1	82.3	-34.2	Peak	Horizontal
361.7	20.4	20.1	40.5	82.3	-41.8	Peak	Vertical
425.8	20.9	21.9	42.8	82.3	-39.6	Peak	Vertical
5071.5	37.7	5.6	43.3	82.3	-39.0	Peak	Horizontal
13809.5	33.0	21.8	54.8	82.3	-27.5	Peak	Horizontal
5063.0	37.1	5.7	42.8	82.3	-39.5	Peak	Vertical
13478.0	31.8	22.3	54.1	82.3	-28.2	Peak	Vertical
High Channel							
311.3	33.3	19.0	52.3	82.3	-30.0	Peak	Horizontal
361.3	28.5	20.1	48.6	82.3	-33.7	Peak	Horizontal
361.3	21.0	20.1	41.1	82.3	-41.2	Peak	Vertical
421.9	22.2	21.7	43.9	82.3	-38.4	Peak	Vertical
7383.5	34.6	12.7	47.3	82.3	-35.0	Peak	Horizontal
13869.0	33.2	22.4	55.6	82.3	-26.7	Peak	Horizontal
6202.0	36.2	8.0	44.2	82.3	-38.1	Peak	Vertical
11633.5	32.2	19.5	51.7	82.3	-30.6	Peak	Vertical
Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB).							

Product	5G Sub-6 GHz M.2 Module	Test Site	WZ-AC2
Test Engineer	Carl Chen	Test Date	2021/05/09
Test Band	n7_SA_5MHz_1RB_QPSK		

Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
Low Channel							
6083.0	35.2	7.5	42.7	70.3	-27.6	Peak	Horizontal
7281.5	33.8	12.3	46.1	70.3	-24.2	Peak	Horizontal
6185.0	34.7	7.6	42.3	70.3	-28.0	Peak	Vertical
8106.0	33.1	12.8	45.9	70.3	-24.4	Peak	Vertical
Middle Channel							
7103.0	33.8	11.7	45.5	70.3	-24.8	Peak	Horizontal
13044.5	31.8	21.0	52.8	70.3	-17.5	Peak	Horizontal
5471.0	36.5	4.7	41.2	70.3	-29.1	Peak	Vertical
7545.0	33.9	12.1	46.0	70.3	-24.3	Peak	Vertical
High Channel							
8106.0	34.7	12.8	47.5	70.3	-22.8	Peak	Horizontal
12245.5	32.8	19.5	52.3	70.3	-18.0	Peak	Horizontal
6873.5	34.5	9.9	44.4	70.3	-25.9	Peak	Vertical
13486.5	31.7	22.2	53.9	70.3	-16.4	Peak	Vertical
Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB).							

Product	5G Sub-6 GHz M.2 Module	Test Site	WZ-AC2
Test Engineer	Carl Chen	Test Date	2021/02/16
Test Band	n12_SA_5MHz_1RB_QPSK		

Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
Low Channel							
311.3	32.4	19	51.4	82.3	-30.9	Peak	Horizontal
359.8	28.4	20	48.4	82.3	-33.9	Peak	Horizontal
358.8	23.2	20	43.2	82.3	-39.1	Peak	Vertical
423.8	23.9	21.8	45.7	82.3	-36.6	Peak	Vertical
1459.0	48.7	-5.7	43.0	82.3	-39.3	Peak	Horizontal
2853.0	41.1	0.4	41.5	82.3	-40.8	Peak	Horizontal
2878.5	41.7	0.4	42.1	82.3	-40.2	Peak	Vertical
4808.0	38.4	5.7	44.1	82.3	-38.2	Peak	Vertical
Middle Channel							
312.8	31.7	19.1	50.8	82.3	-31.5	Peak	Horizontal
358.8	27.2	20	47.2	82.3	-35.1	Peak	Horizontal
358.4	21.5	20	41.5	82.3	-40.8	Peak	Vertical
425.3	21.2	21.8	43.0	82.3	-39.3	Peak	Vertical
1476.0	45.8	-5.7	40.1	82.3	-42.2	Peak	Horizontal
5743.0	41	6.4	47.4	82.3	-34.9	Peak	Horizontal
2215.5	42.5	-1.1	41.4	82.3	-40.9	Peak	Vertical
6975.5	39.5	9	48.5	82.3	-33.8	Peak	Vertical
High Channel							
313.2	30.7	19.1	49.8	82.3	-32.5	Peak	Horizontal
360.8	26.9	20.1	47.0	82.3	-35.3	Peak	Horizontal
359.8	23	20	43.0	82.3	-39.3	Peak	Vertical
421.9	22.4	21.7	44.1	82.3	-38.2	Peak	Vertical
1493.0	46.7	-5.6	41.1	82.3	-41.2	Peak	Horizontal
8174.0	38.2	11	49.2	82.3	-33.1	Peak	Horizontal
2198.5	43.4	-1.2	42.2	82.3	-40.1	Peak	Vertical
8029.5	38.1	10.9	49.0	82.3	-33.3	Peak	Vertical
Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB).							

Product	5G Sub-6 GHz M.2 Module	Test Site	WZ-AC2
Test Engineer	Carl Chen	Test Date	2021/02/16
Test Band	n66_SA_5MHz_1RB_QPSK		

Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
Low Channel							
3431.0	49.0	1.1	50.1	82.3	-32.2	Peak	Horizontal
10996.0	37.4	15.7	53.1	82.3	-29.2	Peak	Horizontal
7256.0	38.6	9.9	48.5	82.3	-33.8	Peak	Vertical
10596.5	36.2	15.5	51.8	82.3	-30.6	Peak	Vertical
Bottom Channel							
3490.5	42.4	1.4	43.7	82.3	-38.6	Peak	Horizontal
5751.5	40.5	6.5	47.0	82.3	-35.3	Peak	Horizontal
8607.5	38.5	11.5	49.9	82.3	-32.4	Peak	Vertical
10605.0	37.1	15.3	52.4	82.3	-29.9	Peak	Vertical
High Channel							
4816.5	38.7	5.5	44.2	82.3	-38.1	Peak	Horizontal
7239.0	37.7	9.9	47.7	82.3	-34.6	Peak	Horizontal
7094.5	38.8	9.7	48.5	82.3	-33.8	Peak	Vertical
11055.5	37.3	15.2	52.5	82.3	-29.8	Peak	Vertical
Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB).							

Product	5G Sub-6 GHz M.2 Module	Test Site	WZ-AC2
Test Engineer	Carl Chen	Test Date	2021/02/16
Test Band	n71_SA_5MHz_1RB_QPSK		

Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
Low Channel							
309.4	31.9	19.0	50.8	82.3	-31.5	Peak	Horizontal
359.8	27.7	20.0	47.8	82.3	-34.6	Peak	Horizontal
311.8	21.7	19.0	40.7	82.3	-41.6	Peak	Vertical
423.3	20.9	21.8	42.7	82.3	-39.6	Peak	Vertical
3091.0	41.5	0.9	42.3	82.3	-40.0	Peak	Horizontal
8650.0	38.2	11.9	50.1	82.3	-32.2	Peak	Horizontal
9466.0	37.3	14.0	51.3	82.3	-31.1	Peak	Vertical
14472.5	35.9	17.7	53.6	82.3	-28.7	Peak	Vertical
Middle Channel							
309.9	32.2	19.0	51.2	82.3	-31.2	Peak	Horizontal
358.8	28.6	20.0	48.6	82.3	-33.8	Peak	Horizontal
359.3	23.0	20.0	43.1	82.3	-39.3	Peak	Vertical
427.7	23.9	22.0	45.9	82.3	-36.4	Peak	Vertical
9415.0	37.0	13.9	50.9	82.3	-31.5	Peak	Horizontal
14149.5	36.6	17.1	53.7	82.3	-28.6	Peak	Horizontal
4808.0	38.5	5.7	44.2	82.3	-38.1	Peak	Vertical
10843.0	36.9	15.5	52.3	82.3	-30.0	Peak	Vertical
High Channel							
309.9	32.2	19.0	51.2	82.3	-31.1	Peak	Horizontal
360.3	28.5	20.1	48.5	82.3	-33.8	Peak	Horizontal
362.2	22.9	20.1	43.0	82.3	-39.3	Peak	Vertical
424.8	22.0	21.8	43.8	82.3	-38.5	Peak	Vertical
3159.0	40.2	1.0	41.2	82.3	-41.2	Peak	Horizontal
10979.0	36.6	15.6	52.2	82.3	-30.1	Peak	Horizontal
5768.5	39.7	6.5	46.1	82.3	-36.2	Peak	Vertical
7460.0	39.0	10.3	49.4	82.3	-32.9	Peak	Vertical
Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB).							

Product	5G Sub-6 GHz M.2 Module	Test Site	WZ-AC2
Test Engineer	Carl Chen	Test Date	2021/02/16
Test Band	n41_SA_HPUE_20MHz_1RB_QPSK		

Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
Low Channel							
5258.5	40.5	5.8	46.3	70.3	-24.1	Peak	Horizontal
10953.5	36.7	15.9	52.6	70.3	-17.7	Peak	Horizontal
11081.0	37.1	15.5	52.6	70.3	-17.7	Peak	Vertical
14600.0	37.4	17.4	54.8	70.3	-15.5	Peak	Vertical
Middle Channel							
5734.5	39.4	6.2	45.6	70.3	-24.7	Peak	Horizontal
11225.5	37.5	14.9	52.4	70.3	-18.0	Peak	Horizontal
10528.5	36.4	15.3	51.7	70.3	-18.6	Peak	Vertical
14183.5	36.5	17.4	53.9	70.3	-16.4	Peak	Vertical
High Channel							
5734.5	39.3	6.2	45.5	70.3	-24.8	Peak	Horizontal
8148.5	38.9	10.9	49.8	70.3	-20.5	Peak	Horizontal
10528.5	36.7	15.3	52.0	70.3	-18.3	Peak	Vertical
14175.0	35.9	17.5	53.4	70.3	-16.9	Peak	Vertical
Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB).							

Product	5G Sub-6 GHz M.2 Module	Test Site	WZ-AC2
Test Engineer	Carl Chen	Test Date	2021/02/16
Test Band	n77_SA_HPUE_20MHz_1RB_QPSK		

Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
Low Channel							
313.7	23.5	19.1	42.6	82.3	-39.7	Peak	Horizontal
421.4	19.6	21.7	41.3	82.3	-41.0	Peak	Horizontal
314.7	16.6	19.2	35.8	82.3	-46.5	Peak	Vertical
427.2	18.9	21.9	40.8	82.3	-41.5	Peak	Vertical
8072.0	38.2	11.1	49.3	82.3	-33.0	Peak	Horizontal
14098.5	36.3	17.4	53.7	82.3	-28.6	Peak	Horizontal
10520.0	36.7	15.2	51.9	82.3	-30.4	Peak	Vertical
14234.5	36.1	17.6	53.7	82.3	-28.6	Peak	Vertical
Middle Channel							
311.8	32.1	19	51.1	82.3	-31.2	Peak	Horizontal
365.1	27.1	20.3	47.4	82.3	-34.9	Peak	Horizontal
312.8	22.2	19.1	41.3	82.3	-41.0	Peak	Vertical
423.8	23.3	21.8	45.1	82.3	-37.2	Peak	Vertical
10579.5	36.9	15.2	52.1	82.3	-30.2	Peak	Horizontal
14472.5	36.2	17.7	53.9	82.3	-28.4	Peak	Horizontal
5267.0	44.1	5.6	49.7	82.3	-32.6	Peak	Vertical
11021.5	36.6	15.4	52.0	82.3	-30.3	Peak	Vertical
High Channel							
310.8	29.5	19	48.5	82.3	-33.8	Peak	Horizontal
359.8	22.4	20	42.4	82.3	-39.9	Peak	Horizontal
310.8	17.3	19	36.3	82.3	-46.0	Peak	Vertical
359.3	16.7	20	36.7	82.3	-45.6	Peak	Vertical
11055.5	36.8	15.2	52.0	82.3	-30.3	Peak	Horizontal
14124.0	36.3	17.2	53.5	82.3	-28.8	Peak	Horizontal
11072.5	36.5	15.3	51.8	82.3	-30.5	Peak	Vertical
14574.5	35.7	17.3	53.0	82.3	-29.3	Peak	Vertical
Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB).							

Product	5G Sub-6 GHz M.2 Module	Test Site	WZ-AC2
Test Engineer	Carl Chen	Test Date	2021/03/29
Test Band	n41_EN-DC_20MHz_1RB_QPSK		

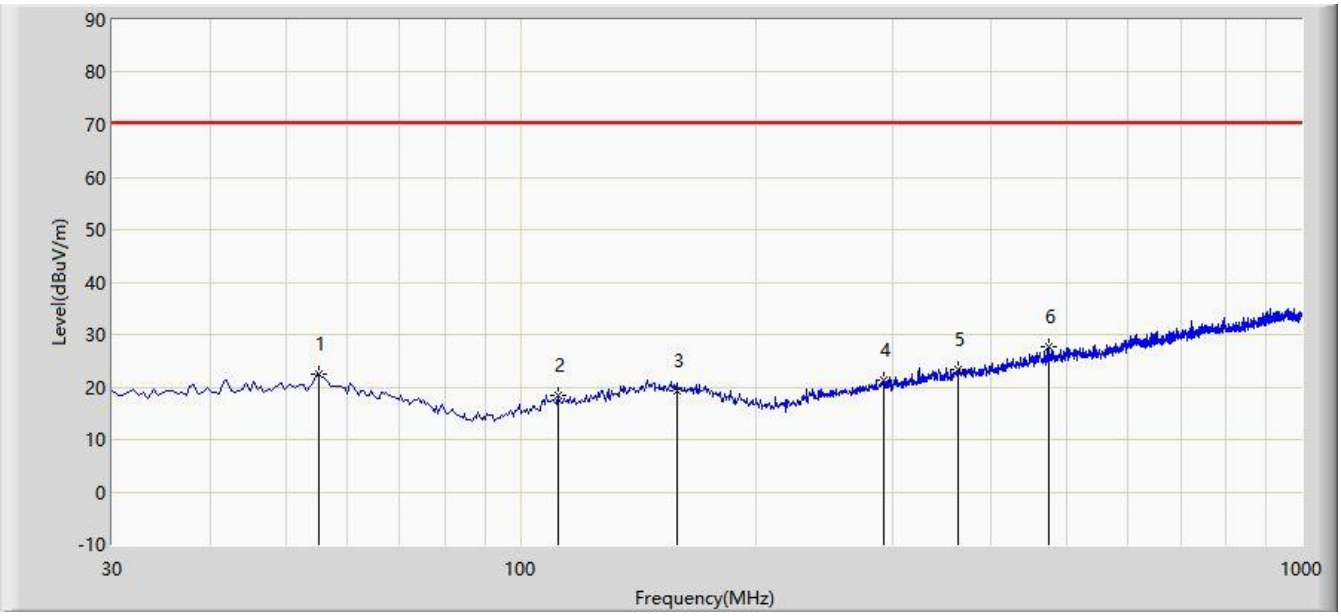
Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
Low Channel							
7944.5	35.3	12.9	48.2	82.3	-34.1	Peak	Horizontal
13435.5	34.1	22.1	56.2	82.3	-26.1	Peak	Horizontal
7400.5	34.9	12.8	47.7	82.3	-34.6	Peak	Vertical
12160.5	34.5	19.3	53.8	82.3	-28.5	Peak	Vertical
Middle Channel							
7128.5	34.4	12.8	47.2	82.3	-35.1	Peak	Horizontal
10724.0	34.9	16.8	51.7	82.3	-30.6	Peak	Horizontal
7230.5	34.5	12.8	47.3	82.3	-35.0	Peak	Vertical
11642.0	35	19.6	54.6	82.3	-27.7	Peak	Vertical
High Channel							
6159.5	36.4	8.1	44.5	82.3	-37.8	Peak	Horizontal
9347.0	35.5	15.4	50.9	82.3	-31.4	Peak	Horizontal
5343.5	49.4	5.1	54.5	82.3	-27.8	Peak	Vertical
9729.5	35.7	15	50.7	82.3	-31.6	Peak	Vertical
Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB).							

Product	5G Sub-6 GHz M.2 Module	Test Site	WZ-AC2
Test Engineer	Carl Chen	Test Date	2021/3/29
Test Band	n77_EN-DC_20MHz_1RB_QPSK		

Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
Low Channel							
7120.0	35.4	12.7	48.1	82.3	-34.2	Peak	Horizontal
11633.5	34.1	19.5	53.6	82.3	-28.7	Peak	Horizontal
7485.5	34.5	12.9	47.4	82.3	-34.9	Peak	Vertical
11642.0	33.8	19.6	53.4	82.3	-28.9	Peak	Vertical
Middle Channel							
7222.0	34.8	12.9	47.7	82.3	-34.6	Peak	Horizontal
11633.5	33.8	19.5	53.3	82.3	-29.0	Peak	Horizontal
7273.0	35.2	13.1	48.3	82.3	-34.0	Peak	Vertical
12747.0	34.5	19.3	53.8	82.3	-28.5	Peak	Vertical
High Channel							
7876.5	35.1	12.6	47.7	82.3	-34.6	Peak	Horizontal
11625.0	34.2	19.1	53.3	82.3	-29.0	Peak	Horizontal
7936.0	35.5	12.9	48.4	82.3	-33.9	Peak	Vertical
13520.5	34.3	21.4	55.7	82.3	-26.6	Peak	Vertical
Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB).							

The Worst Case of Radiated Emission below 1GHz:

Site: WZ-AC1	Time: 2021/02/19 - 14:53
Limit: FCC_Part 27_RSE (3m)	Engineer: Antony Yang
Probe: WZ-AC1_VULB 9168 _30-1000MHz	Polarity: Horizontal
EUT: 5G Sub-6 GHz M.2 Module	Power: AC 120V/60Hz



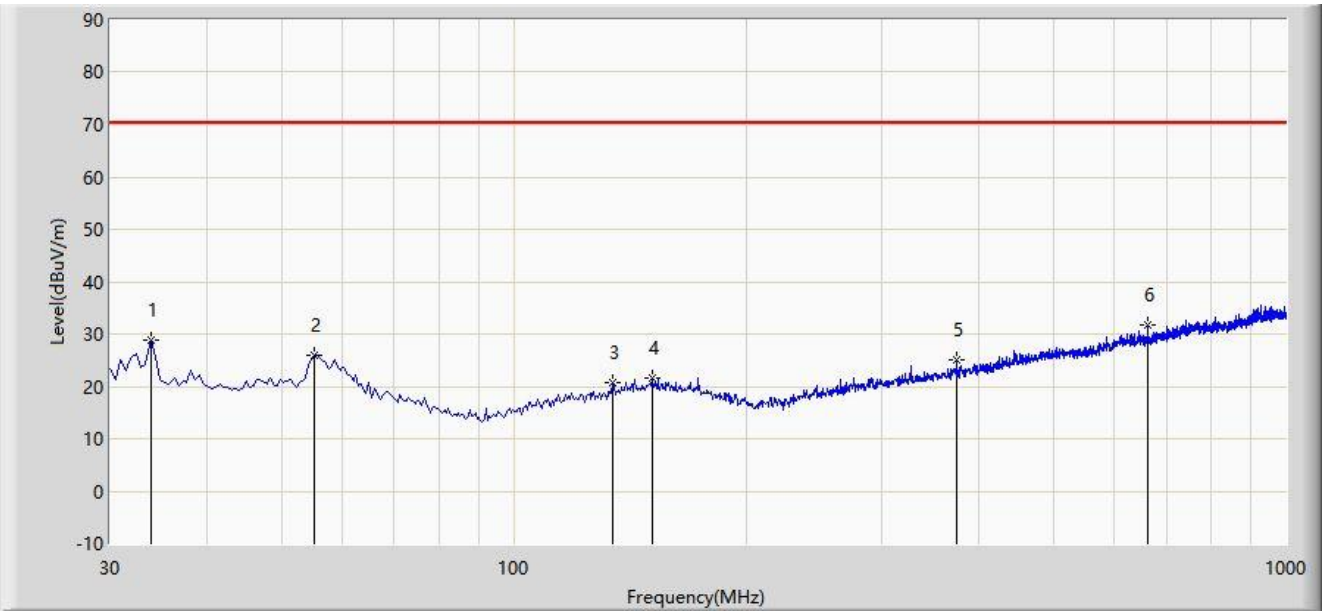
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			55.220	22.384	4.379	-47.916	70.300	18.005	PK
2			111.965	18.311	3.066	-51.989	70.300	15.245	PK
3			159.010	19.403	1.199	-50.897	70.300	18.204	PK
4			291.900	21.414	2.952	-48.886	70.300	18.462	PK
5			363.680	23.476	3.273	-46.824	70.300	20.203	PK
6		*	474.745	27.600	4.410	-42.700	70.300	23.189	PK

Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The amplitude of radiated emissions (frequency range from 9kHz to 30MHz and 18GHz to 40GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented in the report.

Site: WZ-AC1	Time: 2021/02/19 - 14:55
Limit: FCC_Part 27_RSE (3m)	Engineer: Antony Yang
Probe: WZ-AC1_VULB 9168 _30-1000MHz	Polarity: Vertical
EUT: 5G Sub-6 GHz M.2 Module	Power: AC 120V/60Hz



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	33.880	28.902	12.134	-41.398	70.300	16.768	PK
2			55.220	26.009	8.004	-44.291	70.300	18.005	PK
3			134.275	20.680	3.615	-49.620	70.300	17.066	PK
4			151.250	21.584	3.344	-48.716	70.300	18.240	PK
5			374.350	25.090	4.511	-45.210	70.300	20.579	PK
6			661.470	31.749	5.152	-38.551	70.300	26.597	PK

Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The amplitude of radiated emissions (frequency range from 9kHz to 30MHz and 18GHz to 40GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented in the report.

5. CONCLUSION

The data collected relate only the item(s) tested and show that unit is compliance with FCC Rules.

The End

Appendix A - Test Setup Photograph

Refer to “2101RSU049-UT” file.

Appendix B - EUT Photograph

Refer to “2101RSU049-UE” file.