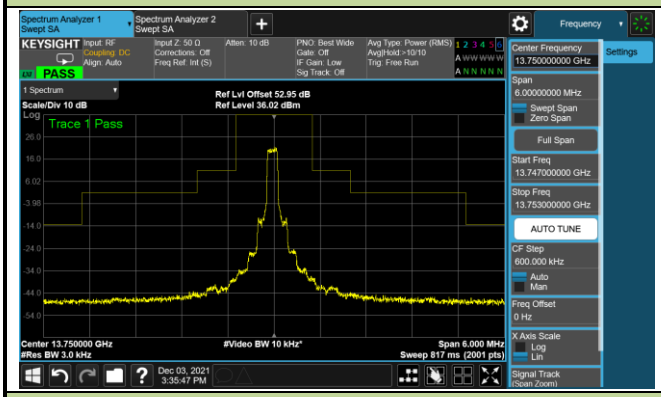
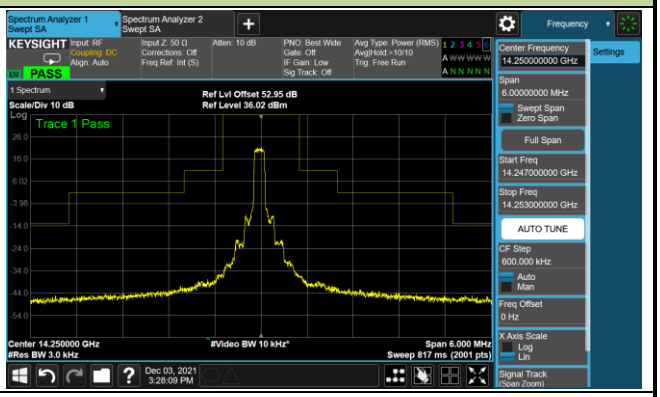
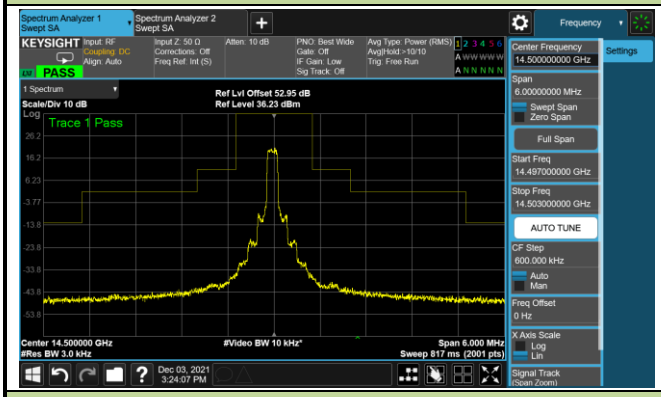
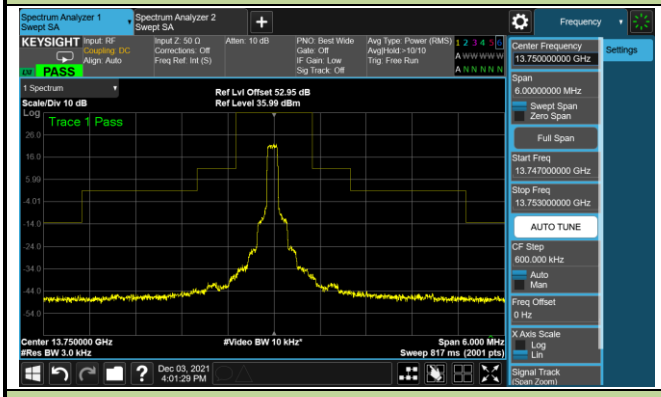
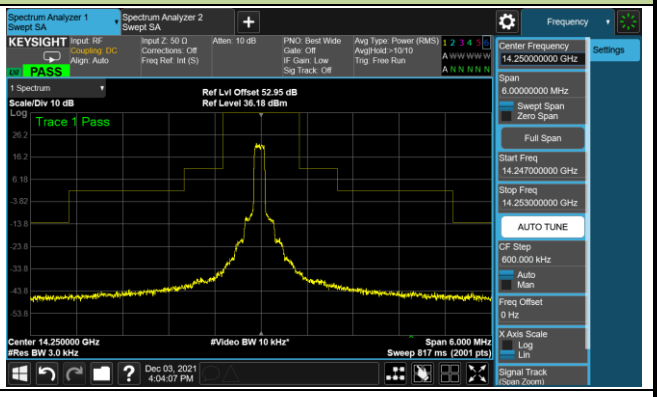
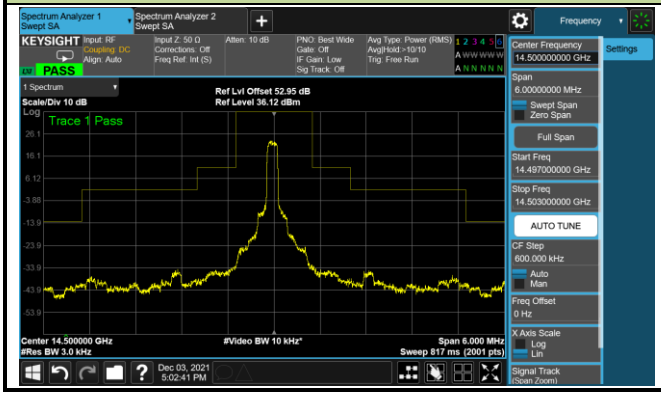
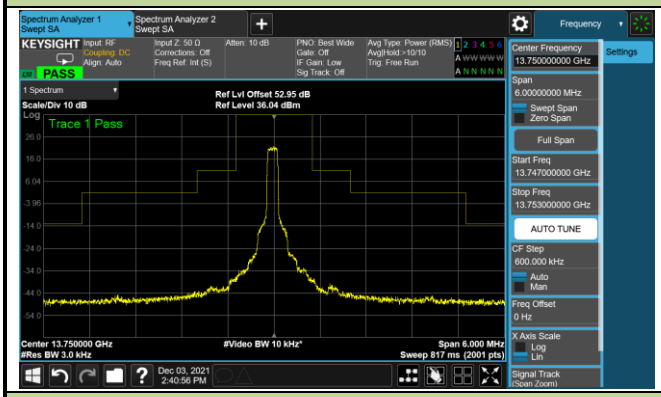
BPSK (128kbps) - In-band Mask - Ant 0	
13750 MHz	14250 MHz
	
14500 MHz	
	

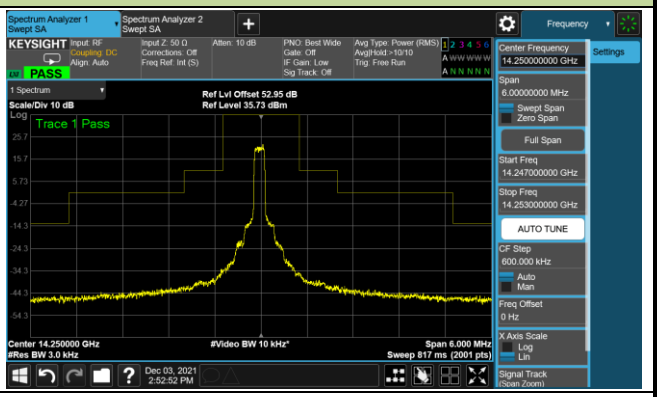
QPSK (128kbps) - In-band Mask - Ant 0	
13750 MHz	14250 MHz
	
14500 MHz	
	

8PSK (128kbps) - In-band Mask - Ant 1

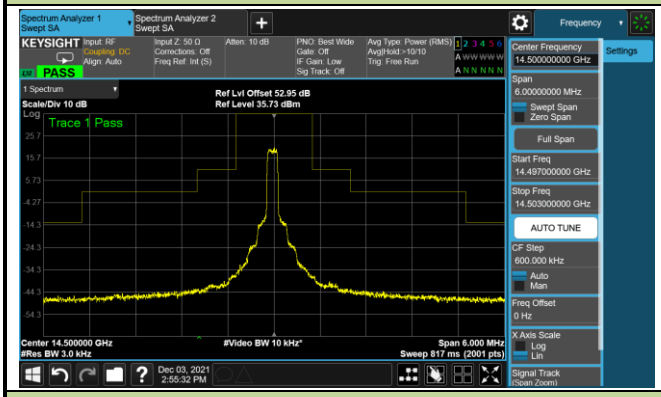
13750 MHz



14250 MHz

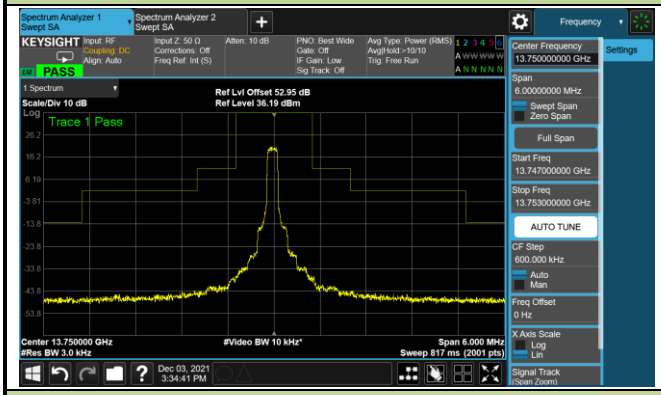


14500 MHz

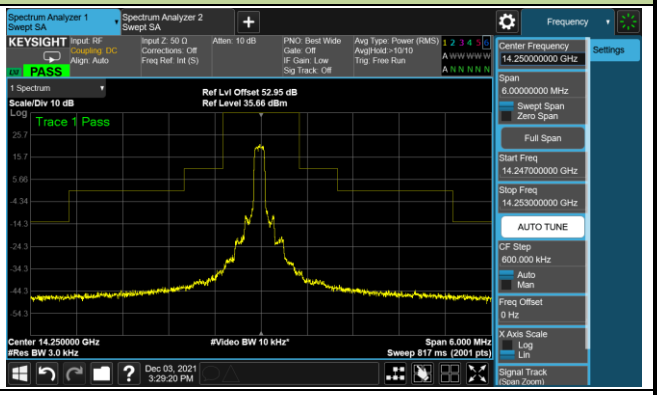


BPSK (128kbps) - In-band Mask - Ant 1

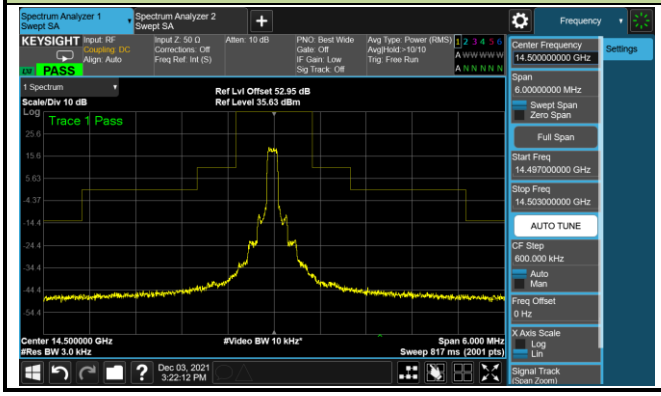
13750 MHz

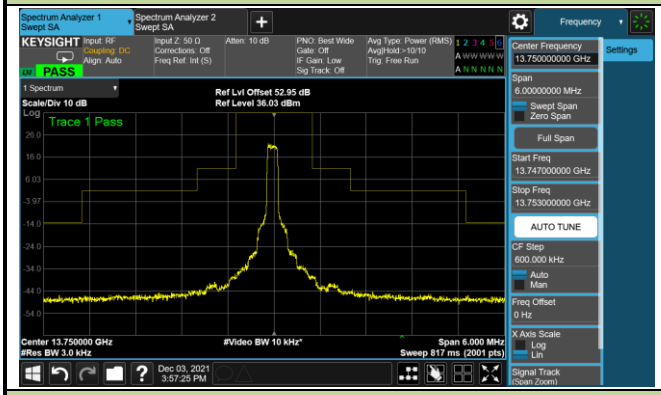
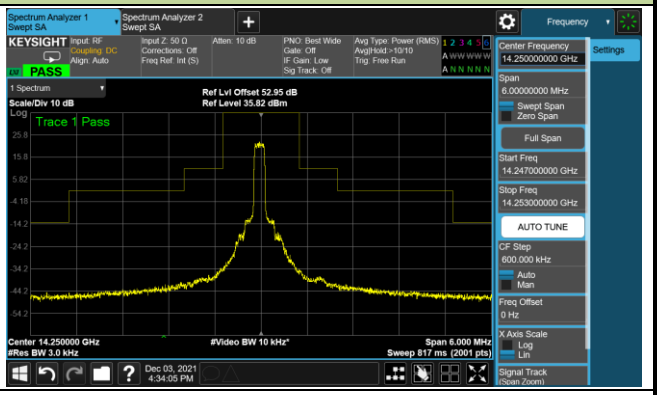
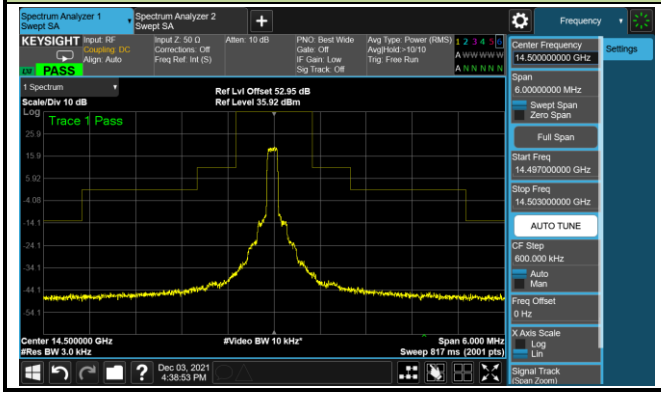


14250 MHz



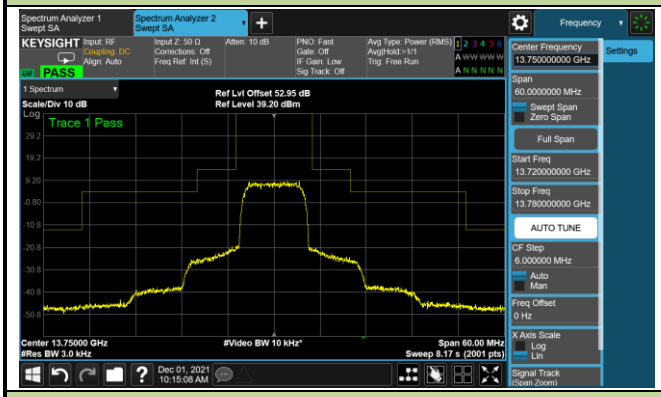
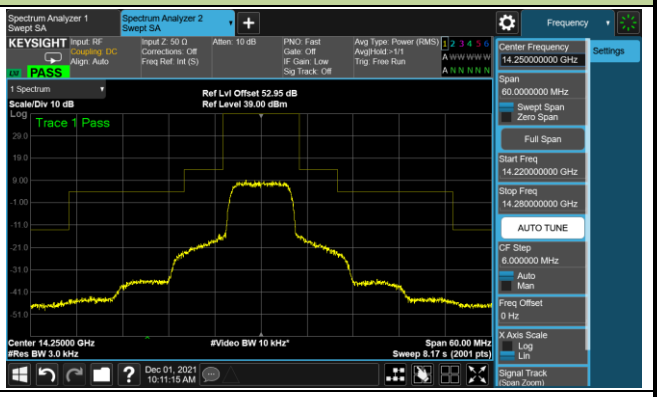
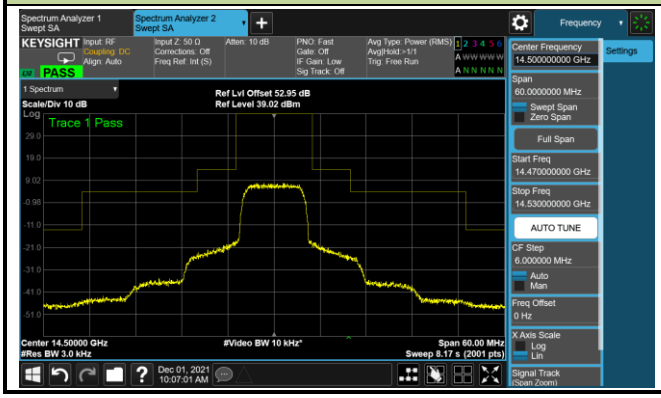
14500 MHz



QPSK (128kbps) - In-band Mask - Ant 1	
13750 MHz	14250 MHz
	
14500 MHz	
	

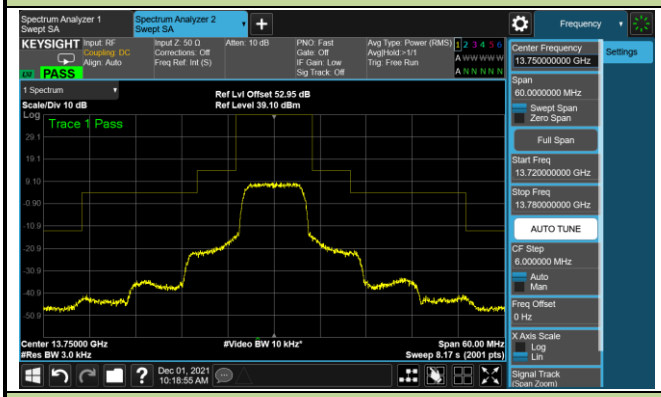
For High Data Rate (7500kbps):

Authorization Bandwidth = 10MHz

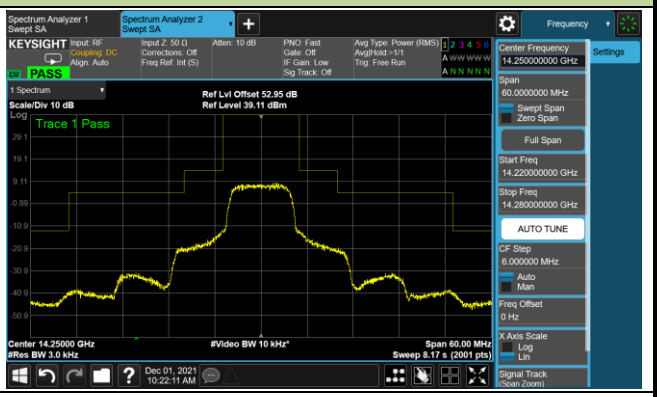
8PSK (7500kbps) - In-band Mask - Ant 0	
13750 MHz	14250 MHz
	
14500 MHz	
	

BPSK (7500kbps) - In-band Mask - Ant 0

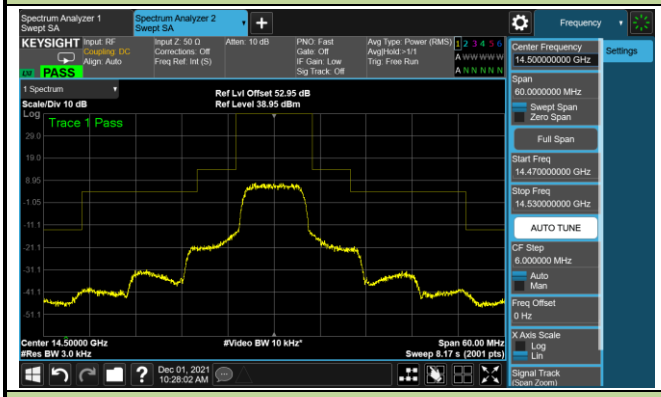
13750 MHz



14250 MHz

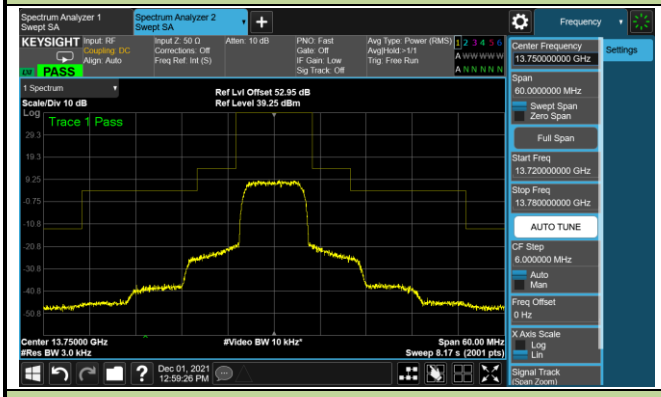


14500 MHz

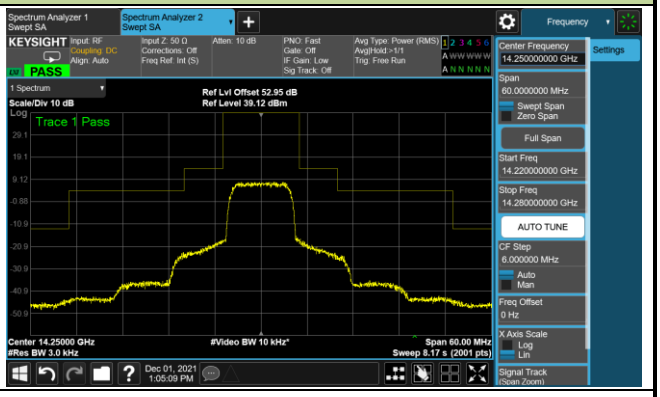


QPSK (7500kbps) - In-band Mask - Ant 0

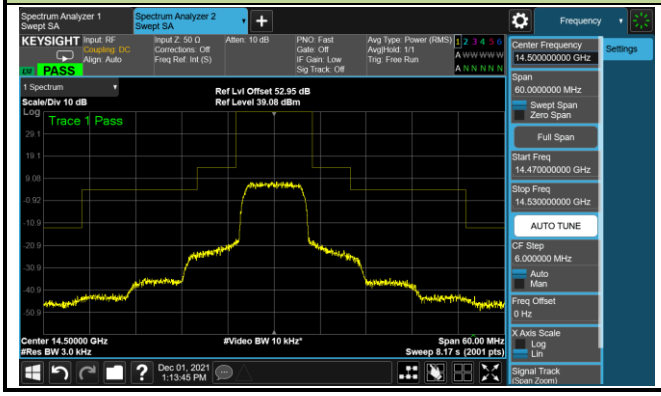
13750 MHz



14250 MHz

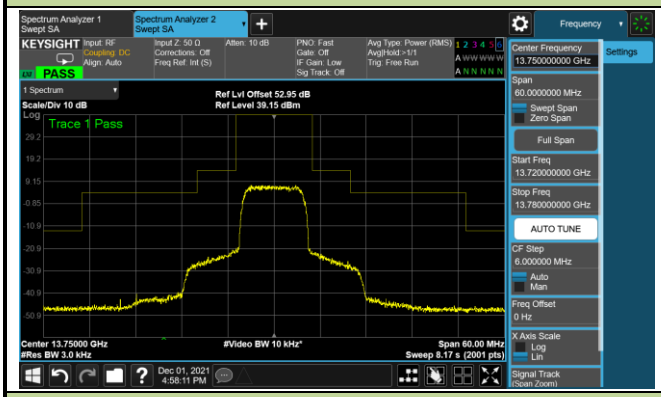


14500 MHz

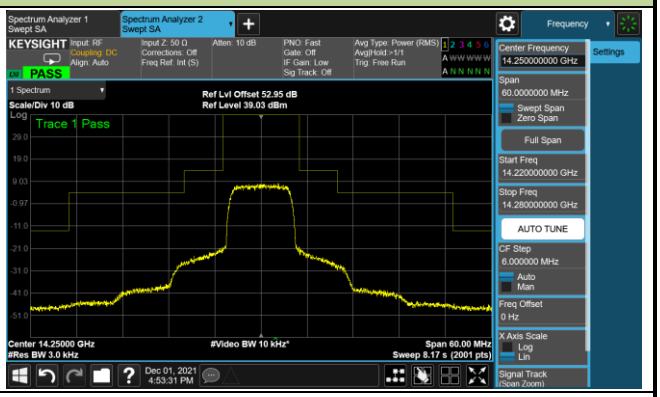


8PSK (7500kbps) - In-band Mask - Ant 1

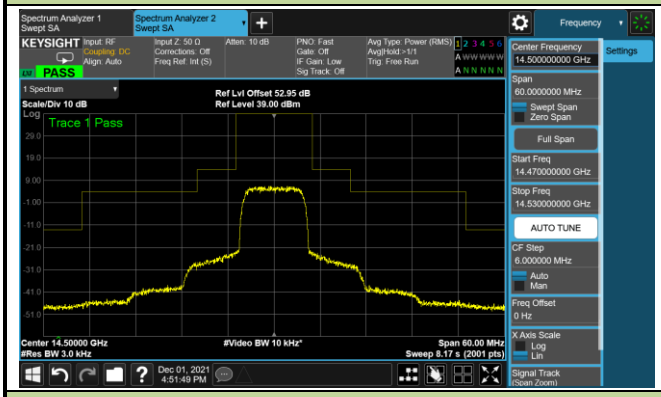
13750 MHz



14250 MHz

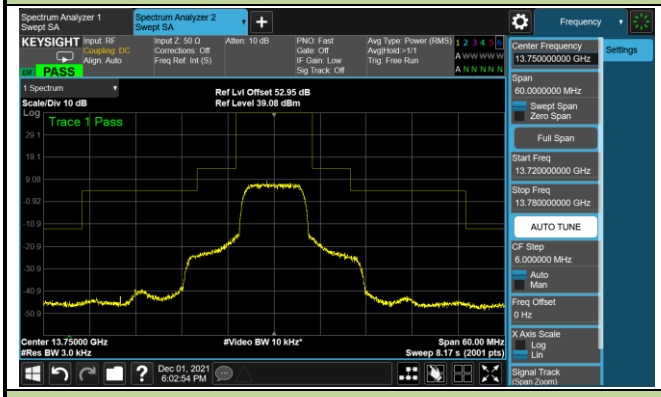


14500 MHz

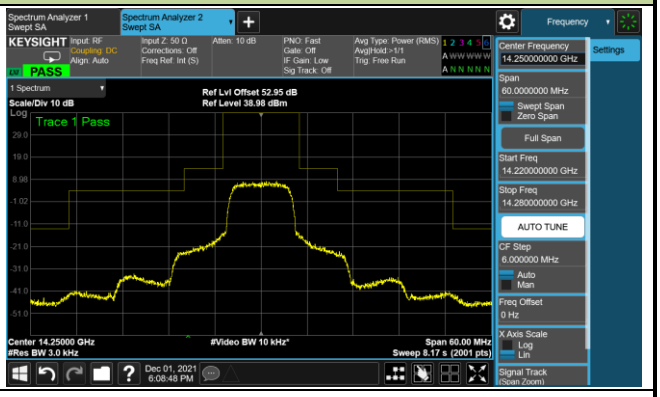


BPSK (7500kbps) - In-band Mask - Ant 1

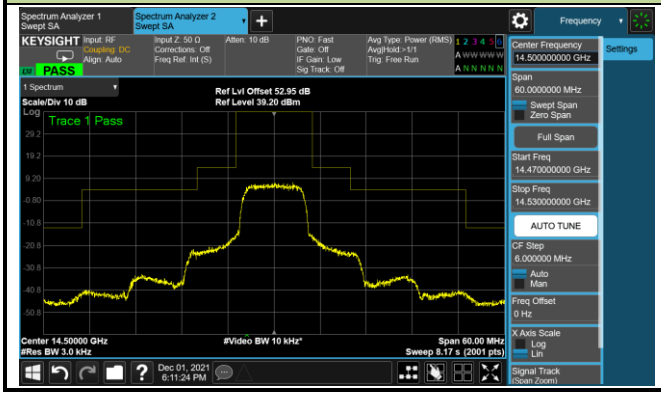
13750 MHz



14250 MHz

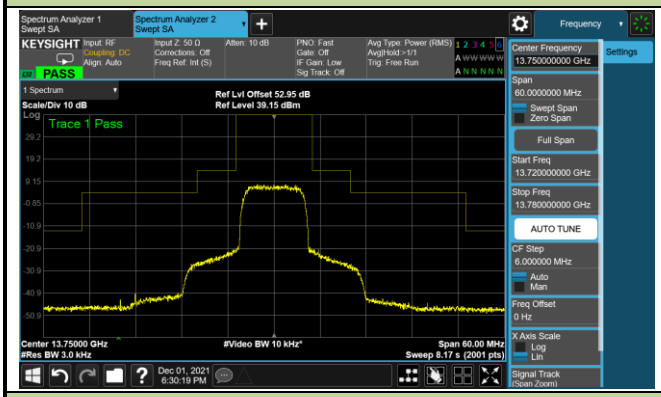


14500 MHz

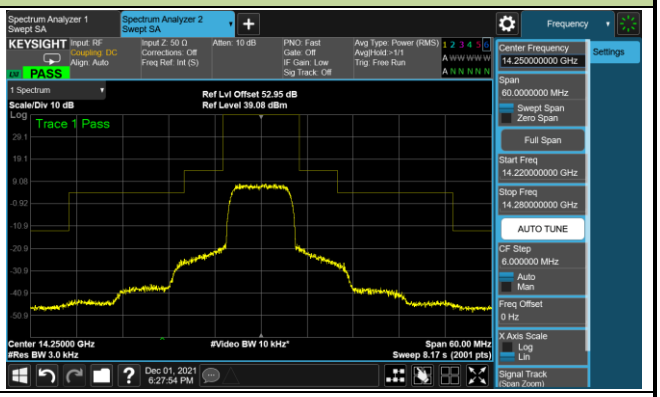


QPSK (7500kbps) - In-band Mask - Ant 1

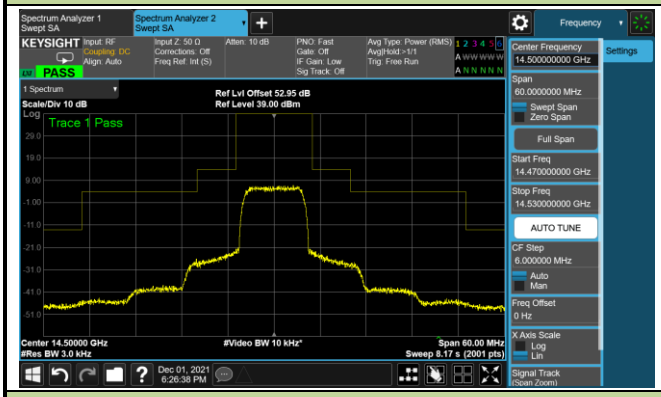
13750 MHz



14250 MHz

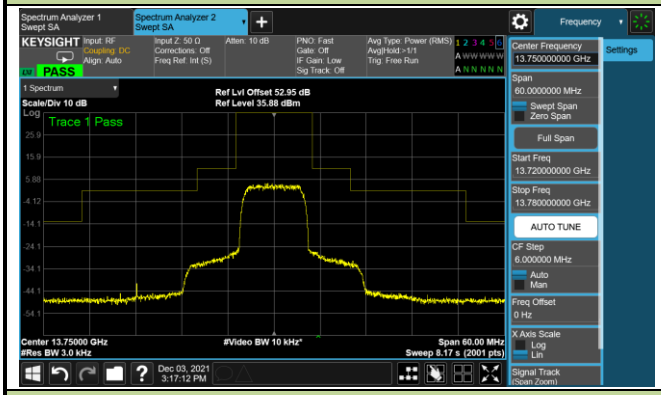


14500 MHz

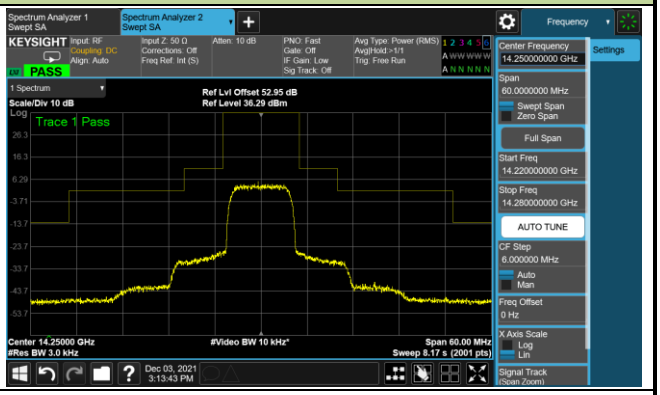


8PSK (7500kbps) - In-band Mask - Ant 0

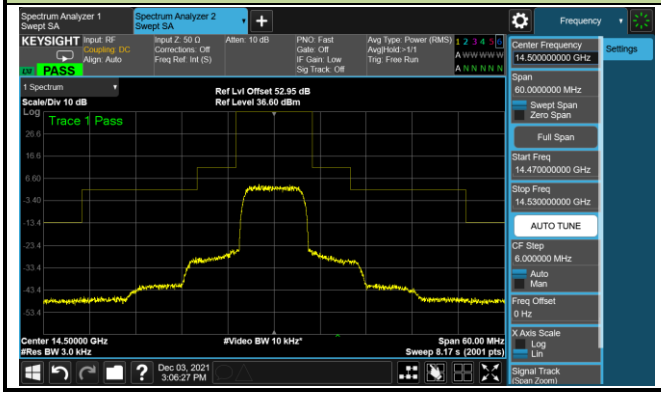
13750 MHz



14250 MHz

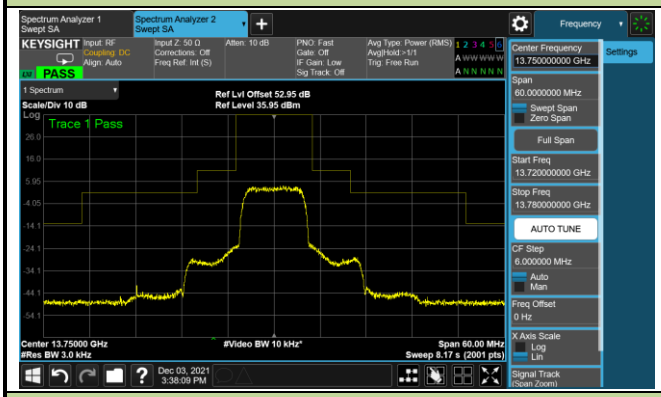


14500 MHz

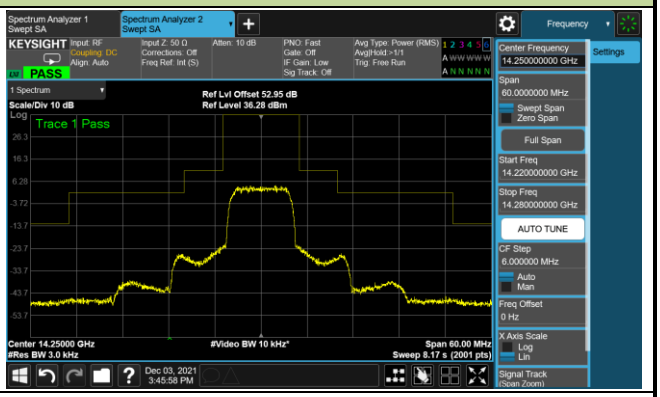


BPSK (7500kbps) - In-band Mask - Ant 0

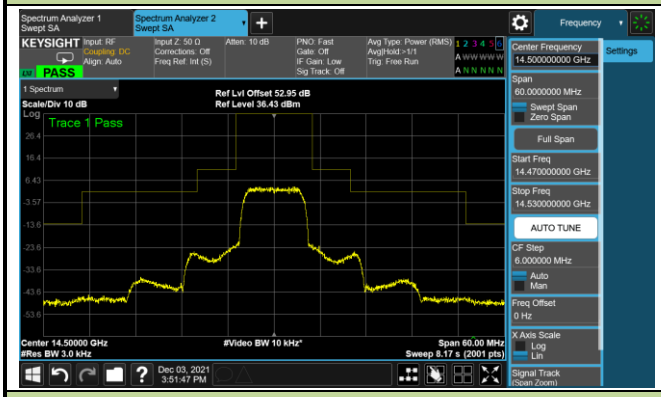
13750 MHz



14250 MHz

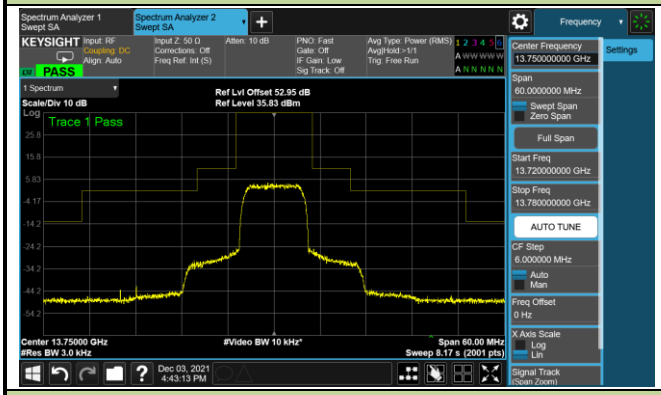


14500 MHz

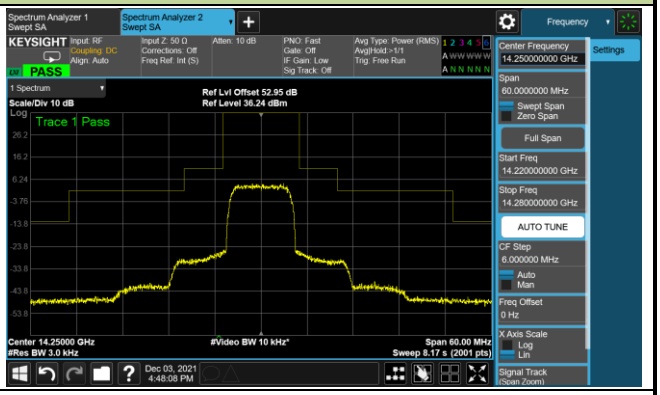


QPSK (7500kbps) - In-band Mask - Ant 0

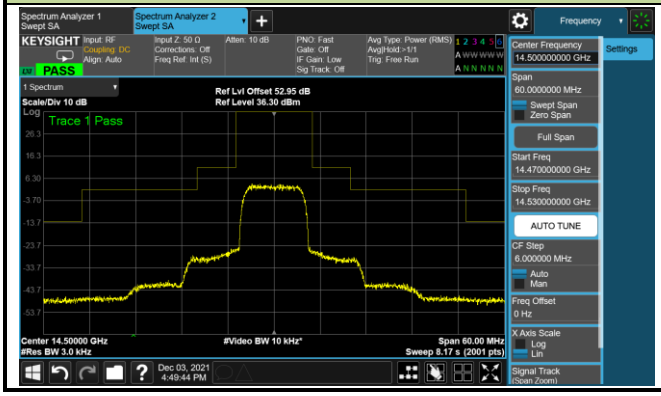
13750 MHz



14250 MHz

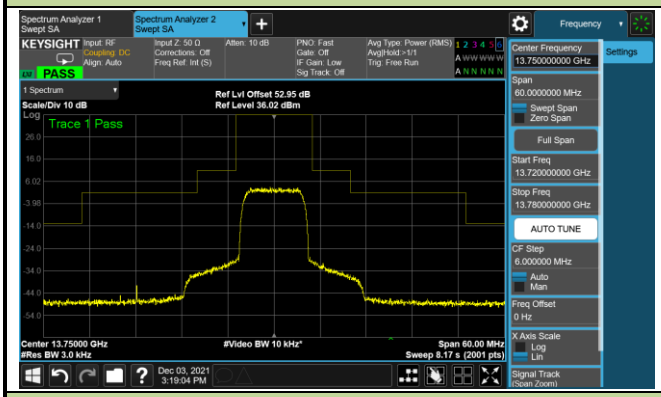


14500 MHz

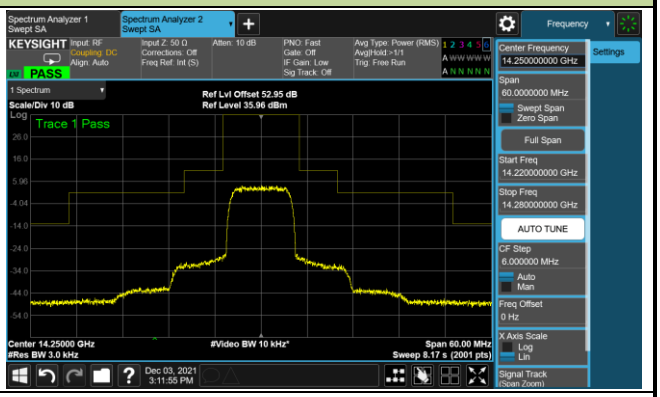


8PSK (7500kbps) - In-band Mask - Ant 1

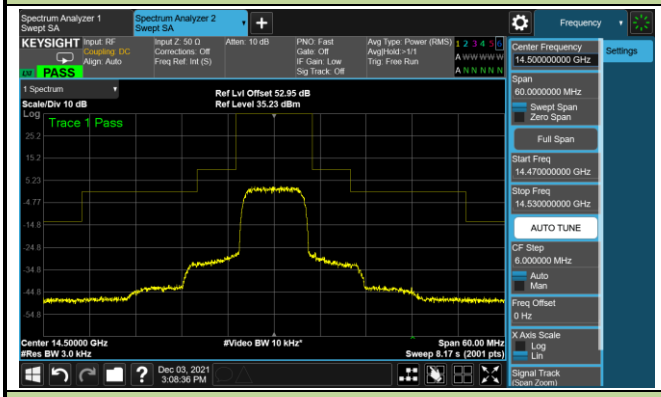
13750 MHz



14250 MHz

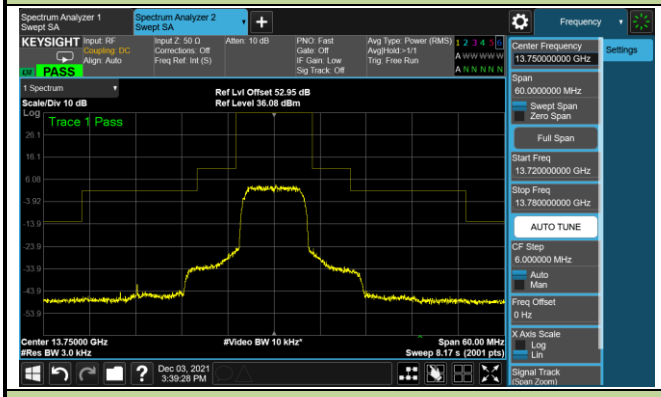


14500 MHz

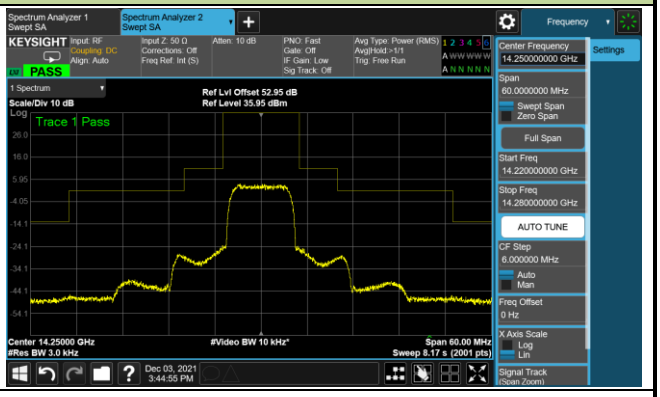


BPSK (7500kbps) - In-band Mask - Ant 1

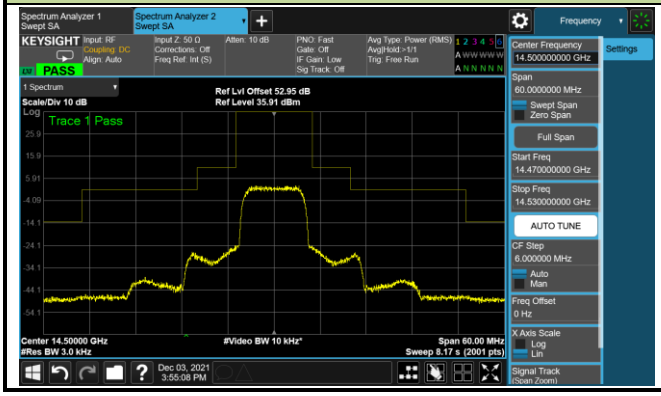
13750 MHz

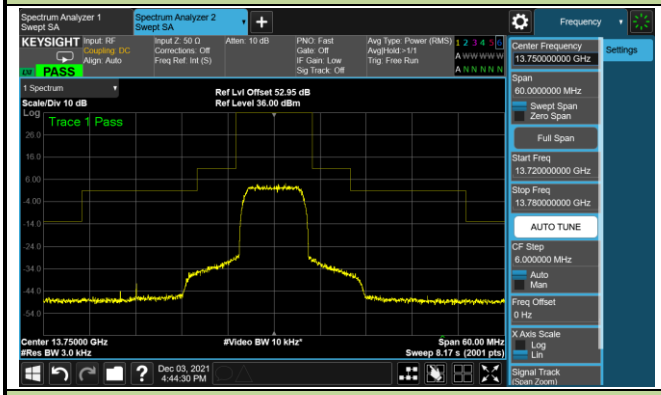
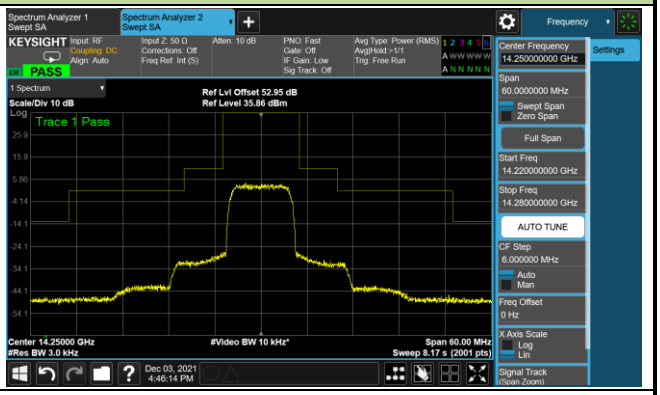
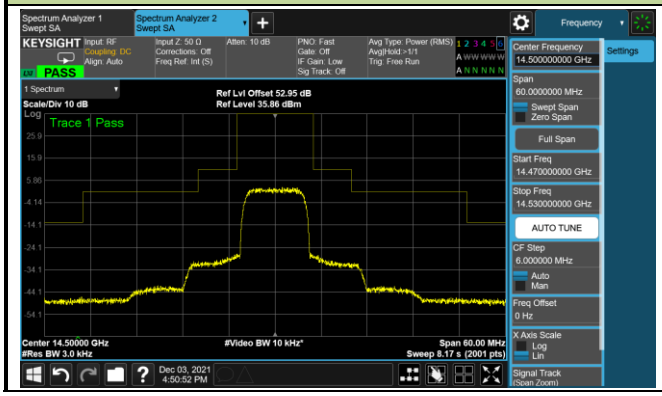


14250 MHz



14500 MHz



QPSK (7500kbps) - In-band Mask - Ant 1	
13750 MHz	14250 MHz
	
14500 MHz	
	

A.6 Frequency Tolerance Test Result

Test Site	WZ-TR3	Test Engineer	Luis Yang
Test Date	2021/11/07	Temperature	-30 ~ 50 °C

Test Freq. (MHz)	Voltage (V_{AC})	Temp. (°C)	Measured Freq. (MHz)	Freq. Tolerance (ppm)	Limit (ppm)	Result
14250	120	-30	14249.977507	-1.5785	-10 ~ +10	Pass
		-20	14249.977474	-1.5808	-10 ~ +10	Pass
		-10	14249.977469	-1.5811	-10 ~ +10	Pass
		0	14249.977508	-1.5784	-10 ~ +10	Pass
		+10	14249.977454	-1.5822	-10 ~ +10	Pass
		+20	14249.977454	-1.5822	-10 ~ +10	Pass
		+30	14249.977462	-1.5816	-10 ~ +10	Pass
		+40	14249.977458	-1.5819	-10 ~ +10	Pass
		+50	14249.977458	-1.5819	-10 ~ +10	Pass
	102	+20	14249.977444	-1.5829	-10 ~ +10	Pass
	138	+20	14249.977439	-1.5832	-10 ~ +10	Pass

Note: Frequency Tolerance (ppm) = {[Measured Frequency (MHz) - Test Frequency (MHz)] / Test Frequency (MHz)} * 10^6.

A.7 Radiated Spurious Emission Test Result

Test Site	WZ-AC1 & WZ-AC2	Test Engineer	Kin Xia & Tommy Tang
Test Date	2021/12/16 ~ 2021/12/22		
Test Mode	8PSK, 128kbps, Ant 0	Test Channel	13750MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 9kHz to 30MHz and 40GHz to 75GHz, there is not show in the report.		

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
12798.000	-49.4	24.7	-24.7	-13.0	-11.7	Peak	Horizontal
14702.000	-46.5	26.7	-19.8	-13.0	-6.8	Peak	Horizontal
27504.000	-42.4	4.8	-37.6	-13.0	-24.6	Peak	Horizontal
28054.000	-33.0	4.5	-28.5	-13.0	-15.5	Peak	Horizontal
12798.000	-51.8	25.1	-26.7	-13.0	-13.7	Peak	Vertical
14702.000	-50.7	26.6	-24.1	-13.0	-11.1	Peak	Vertical
27504.000	-34.0	4.9	-29.1	-13.0	-16.1	Peak	Vertical
28054.000	-27.3	5.0	-22.3	-13.0	-9.3	Peak	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Substitution Factor (dB).

Note 2: Substitution Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) + Antenna Gain (dBi) - Pre_Amplifier Gain (dB)

Note 3: Test Distance “d” = 3m.

Test Site	WZ-AC1 & WZ-AC2	Test Engineer	Kin Xia & Tommy Tang
Test Date	2021/12/16 ~ 2021/12/22		
Test Mode	8PSK, 128kbps, Ant 0	Test Channel	14250MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 9kHz to 30MHz and 40GHz to 75GHz, there is not show in the report.		

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
10239.500	-59.2	25.3	-33.9	-13.0	-20.9	Peak	Horizontal
17201.000	-58.8	31.5	-27.3	-13.0	-14.3	Peak	Horizontal
28054.000	-34.2	4.5	-29.7	-13.0	-16.7	Peak	Horizontal
28505.000	-31.4	4.7	-26.7	-13.0	-13.7	Peak	Horizontal
10205.500	-59.3	24.8	-34.5	-13.0	-21.5	Peak	Vertical
17481.500	-58.3	30.2	-28.1	-13.0	-15.1	Peak	Vertical
28054.000	-28.8	5.0	-23.8	-13.0	-10.8	Peak	Vertical
28505.000	-27.3	4.6	-22.7	-13.0	-9.7	Peak	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Substitution Factor (dB).

Note 2: Substitution Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) + Antenna Gain (dBi) - Pre_Amplifier Gain (dB)

Note 3: Test Distance “d” = 3m.

Test Site	WZ-AC1 & WZ-AC2	Test Engineer	Kin Xia & Tommy Tang
Test Date	2021/12/16 ~ 2021/12/22		
Test Mode	8PSK, 128kbps, Ant 0	Test Channel	14500MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 9kHz to 30MHz and 40GHz to 75GHz, there is not show in the report.		

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
10783.500	-59.0	26.1	-32.9	-13.0	-19.9	Peak	Horizontal
17073.500	-59.4	31.2	-28.2	-13.0	-15.2	Peak	Horizontal
28065.000	-33.9	4.5	-29.4	-13.0	-16.4	Peak	Horizontal
29000.000	-43.3	4.6	-38.7	-13.0	-25.7	Peak	Horizontal
10180.000	-58.7	24.5	-34.2	-13.0	-21.2	Peak	Vertical
12866.000	-57.9	24.9	-33.0	-13.0	-20.0	Peak	Vertical
28065.000	-25.8	4.8	-21.0	-13.0	-8.0	Peak	Vertical
29000.000	-32.1	4.6	-27.5	-13.0	-14.5	Peak	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Substitution Factor (dB).

Note 2: Substitution Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) + Antenna Gain (dBi) - Pre_Amplifier Gain (dB)

Note 3: Test Distance “d” = 3m.

Test Site	WZ-AC1 & WZ-AC2	Test Engineer	Kin Xia & Tommy Tang
Test Date	2021/12/16 ~ 2021/12/22		
Test Mode	BPSK, 128kbps, Ant 0	Test Channel	13750MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 9kHz to 30MHz and 40GHz to 75GHz, there is not show in the report.		

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
12798.000	-49.8	24.7	-25.1	-13.0	-12.1	Peak	Horizontal
14702.000	-47.4	26.7	-20.7	-13.0	-7.7	Peak	Horizontal
28065.000	-35.4	4.5	-30.9	-13.0	-17.9	Peak	Horizontal
31288.000	-51.9	6.9	-45.0	-13.0	-32.0	Peak	Horizontal
12798.000	-50.2	25.1	-25.1	-13.0	-12.1	Peak	Vertical
14702.000	-50.6	26.6	-24.0	-13.0	-11.0	Peak	Vertical
28065.000	-25.8	4.8	-21.0	-13.0	-8.0	Peak	Vertical
36238.000	-49.3	5.9	-43.4	-13.0	-30.4	Peak	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Substitution Factor (dB).

Note 2: Substitution Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) + Antenna Gain (dBi) - Pre_Amplifier Gain (dB)

Note 3: Test Distance “d” = 3m.

Test Site	WZ-AC1 & WZ-AC2	Test Engineer	Kin Xia & Tommy Tang
Test Date	2021/12/16 ~ 2021/12/22		
Test Mode	BPSK, 128kbps, Ant 0	Test Channel	14250MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 9kHz to 30MHz and 40GHz to 75GHz, there is not show in the report.		

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
7426.000	-58.3	20.5	-37.8	-13.0	-24.8	Peak	Horizontal
10443.500	-59.7	25.8	-33.9	-13.0	-20.9	Peak	Horizontal
28065.000	-35.3	4.5	-30.8	-13.0	-17.8	Peak	Horizontal
28505.000	-43.2	4.7	-38.5	-13.0	-25.5	Peak	Horizontal
7426.000	-58.5	20.6	-37.9	-13.0	-24.9	Peak	Vertical
10715.500	-58.9	25.1	-33.8	-13.0	-20.8	Peak	Vertical
28065.000	-25.7	4.8	-20.9	-13.0	-7.9	Peak	Vertical
28505.000	-39.9	4.6	-35.3	-13.0	-22.3	Peak	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Substitution Factor (dB).

Note 2: Substitution Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) + Antenna Gain (dBi) - Pre_Amplifier Gain (dB)

Note 3: Test Distance “d” = 3m.

Test Site	WZ-AC1 & WZ-AC2	Test Engineer	Kin Xia & Tommy Tang
Test Date	2021/12/16 ~ 2021/12/22		
Test Mode	BPSK, 128kbps, Ant 0	Test Channel	14500MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 9kHz to 30MHz and 40GHz to 75GHz, there is not show in the report.		

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
10554.000	-59.4	26.0	-33.4	-13.0	-20.4	Peak	Horizontal
13010.500	-59.0	25.1	-33.9	-13.0	-20.9	Peak	Horizontal
28065.000	-36.0	4.5	-31.5	-13.0	-18.5	Peak	Horizontal
29000.000	-42.9	4.6	-38.3	-13.0	-25.3	Peak	Horizontal
9772.000	-61.7	24.5	-37.2	-13.0	-24.2	Peak	Vertical
13282.500	-58.6	25.4	-33.2	-13.0	-20.2	Peak	Vertical
28065.000	-26.3	4.8	-21.5	-13.0	-8.5	Peak	Vertical
29000.000	-25.1	4.6	-20.5	-13.0	-7.5	Peak	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Substitution Factor (dB).

Note 2: Substitution Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) + Antenna Gain (dBi) - Pre_Amplifier Gain (dB)

Note 3: Test Distance “d” = 3m.

Test Site	WZ-AC1 & WZ-AC2	Test Engineer	Kin Xia & Tommy Tang
Test Date	2021/12/16 ~ 2021/12/22		
Test Mode	QPSK, 128kbps, Ant 0	Test Channel	13750MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 9kHz to 30MHz and 40GHz to 75GHz, there is not show in the report.		

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
12798.000	-53.3	24.7	-28.6	-13.0	-15.6	Peak	Horizontal
14702.000	-48.4	26.7	-21.7	-13.0	-8.7	Peak	Horizontal
28065.000	-36.1	4.5	-31.6	-13.0	-18.6	Peak	Horizontal
38493.000	-50.8	9.0	-41.8	-13.0	-28.8	Peak	Horizontal
12798.000	-55.0	25.1	-29.9	-13.0	-16.9	Peak	Vertical
14702.000	-54.3	26.6	-27.7	-13.0	-14.7	Peak	Vertical
28065.000	-26.3	4.8	-21.5	-13.0	-8.5	Peak	Vertical
36304.000	-49.1	6.0	-43.1	-13.0	-30.1	Peak	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Substitution Factor (dB).

Note 2: Substitution Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) + Antenna Gain (dBi) - Pre_Amplifier Gain (dB)

Note 3: Test Distance “d” = 3m.

Test Site	WZ-AC1 & WZ-AC2	Test Engineer	Kin Xia & Tommy Tang
Test Date	2021/12/16 ~ 2021/12/22		
Test Mode	QPSK, 128kbps, Ant 0	Test Channel	14250MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 9kHz to 30MHz and 40GHz to 75GHz, there is not show in the report.		

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
7230.500	-58.3	20.1	-38.2	-13.0	-25.2	Peak	Horizontal
10571.000	-59.6	25.8	-33.8	-13.0	-20.8	Peak	Horizontal
28065.000	-31.7	4.5	-27.2	-13.0	-14.2	Peak	Horizontal
28505.000	-43.7	4.7	-39.0	-13.0	-26.0	Peak	Horizontal
7443.000	-58.9	20.4	-38.5	-13.0	-25.5	Peak	Vertical
10333.000	-60.2	25.5	-34.7	-13.0	-21.7	Peak	Vertical
28065.000	-26.0	4.8	-21.2	-13.0	-8.2	Peak	Vertical
28505.000	-44.7	4.6	-40.1	-13.0	-27.1	Peak	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Substitution Factor (dB).

Note 2: Substitution Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) + Antenna Gain (dBi) - Pre_Amplifier Gain (dB)

Note 3: Test Distance “d” = 3m.

Test Site	WZ-AC1 & WZ-AC2	Test Engineer	Kin Xia & Tommy Tang
Test Date	2021/12/16 ~ 2021/12/22		
Test Mode	QPSK, 128kbps, Ant 0	Test Channel	14500MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 9kHz to 30MHz and 40GHz to 75GHz, there is not show in the report.		

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
7545.000	-58.5	20.4	-38.1	-13.0	-25.1	Peak	Horizontal
10588.000	-60.9	26.2	-34.7	-13.0	-21.7	Peak	Horizontal
28065.000	-34.4	4.5	-29.9	-13.0	-16.9	Peak	Horizontal
29000.000	-39.6	4.6	-35.0	-13.0	-22.0	Peak	Horizontal
7460.000	-58.5	20.3	-38.2	-13.0	-25.2	Peak	Vertical
9772.000	-59.4	24.5	-34.9	-13.0	-21.9	Peak	Vertical
28065.000	-26.6	4.8	-21.8	-13.0	-8.8	Peak	Vertical
29000.000	-27.4	4.6	-22.8	-13.0	-9.8	Peak	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Substitution Factor (dB).

Note 2: Substitution Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) + Antenna Gain (dBi) - Pre_Amplifier Gain (dB)

Note 3: Test Distance “d” = 3m.

Test Site	WZ-AC1 & WZ-AC2	Test Engineer	Kin Xia & Tommy Tang
Test Date	2021/12/16 ~ 2021/12/22		
Test Mode	8PSK, 7500kbps, Ant 0	Test Channel	13750MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 9kHz to 30MHz and 40GHz to 75GHz, there is not show in the report.		

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
10690.000	-59.0	25.9	-33.1	-13.0	-20.1	Peak	Horizontal
14702.000	-52.3	26.7	-25.6	-13.0	-12.6	Peak	Horizontal
28065.000	-35.9	4.5	-31.4	-13.0	-18.4	Peak	Horizontal
39230.000	-51.8	10.7	-41.1	-13.0	-28.1	Peak	Horizontal
10299.000	-59.5	25.0	-34.5	-13.0	-21.5	Peak	Vertical
14693.500	-55.5	26.5	-29.0	-13.0	-16.0	Peak	Vertical
28065.000	-24.3	4.8	-19.5	-13.0	-6.5	Peak	Vertical
36304.000	-49.1	6.0	-43.1	-13.0	-30.1	Peak	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Substitution Factor (dB).

Note 2: Substitution Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) + Antenna Gain (dBi) - Pre_Amplifier Gain (dB)

Note 3: Test Distance “d” = 3m.

Test Site	WZ-AC1 & WZ-AC2	Test Engineer	Kin Xia & Tommy Tang
Test Date	2021/12/16 ~ 2021/12/22		
Test Mode	8PSK, 7500kbps, Ant 0	Test Channel	14250MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 9kHz to 30MHz and 40GHz to 75GHz, there is not show in the report.		

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
10826.000	-58.8	25.8	-33.0	-13.0	-20.0	Peak	Horizontal
17031.000	-58.6	30.8	-27.8	-13.0	-14.8	Peak	Horizontal
28065.000	-35.8	4.5	-31.3	-13.0	-18.3	Peak	Horizontal
28505.000	-45.7	4.7	-41.0	-13.0	-28.0	Peak	Horizontal
10443.500	-58.7	25.3	-33.4	-13.0	-20.4	Peak	Vertical
17515.500	-58.2	29.4	-28.8	-13.0	-15.8	Peak	Vertical
28065.000	-26.2	4.8	-21.4	-13.0	-8.4	Peak	Vertical
28505.000	-46.6	4.6	-42.0	-13.0	-29.0	Peak	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Substitution Factor (dB).

Note 2: Substitution Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) + Antenna Gain (dBi) - Pre_Amplifier Gain (dB)

Note 3: Test Distance “d” = 3m.

Test Site	WZ-AC1 & WZ-AC2	Test Engineer	Kin Xia & Tommy Tang
Test Date	2021/12/16 ~ 2021/12/22		
Test Mode	8PSK, 7500kbps, Ant 0	Test Channel	14500MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 9kHz to 30MHz and 40GHz to 75GHz, there is not show in the report.		

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
10554.000	-59.6	26.0	-33.6	-13.0	-20.6	Peak	Horizontal
17073.500	-58.4	31.2	-27.2	-13.0	-14.2	Peak	Horizontal
28065.000	-33.6	4.5	-29.1	-13.0	-16.1	Peak	Horizontal
29000.000	-42.9	4.6	-38.3	-13.0	-25.3	Peak	Horizontal
10511.500	-58.3	25.0	-33.3	-13.0	-20.3	Peak	Vertical
17983.000	-59.1	34.6	-24.5	-13.0	-11.5	Peak	Vertical
28065.000	-26.9	4.8	-22.1	-13.0	-9.1	Peak	Vertical
29000.000	-34.5	4.6	-29.9	-13.0	-16.9	Peak	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Substitution Factor (dB).

Note 2: Substitution Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) + Antenna Gain (dBi) - Pre_Amplifier Gain (dB)

Note 3: Test Distance “d” = 3m.

Test Site	WZ-AC1 & WZ-AC2	Test Engineer	Kin Xia & Tommy Tang
Test Date	2021/12/16 ~ 2021/12/22		
Test Mode	BPSK, 7500kbps, Ant 0	Test Channel	13750MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 9kHz to 30MHz and 40GHz to 75GHz, there is not show in the report.		

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
9559.500	-60.4	24.4	-36.0	-13.0	-23.0	Peak	Horizontal
14702.000	-50.3	26.7	-23.6	-13.0	-10.6	Peak	Horizontal
28065.000	-35.5	4.5	-31.0	-13.0	-18.0	Peak	Horizontal
39329.000	-51.7	10.7	-41.0	-13.0	-28.0	Peak	Horizontal
10333.000	-60.2	25.5	-34.7	-13.0	-21.7	Peak	Vertical
14702.000	-53.1	26.6	-26.5	-13.0	-13.5	Peak	Vertical
28065.000	-25.3	4.8	-20.5	-13.0	-7.5	Peak	Vertical
39208.000	-51.0	9.9	-41.1	-13.0	-28.1	Peak	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Substitution Factor (dB).

Note 2: Substitution Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) + Antenna Gain (dBi) - Pre_Amplifier Gain (dB)

Note 3: Test Distance “d” = 3m.

Test Site	WZ-AC1 & WZ-AC2	Test Engineer	Kin Xia & Tommy Tang
Test Date	2021/12/16 ~ 2021/12/22		
Test Mode	BPSK, 7500kbps, Ant 0	Test Channel	14250MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 9kHz to 30MHz and 40GHz to 75GHz, there is not show in the report.		

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
10792.000	-59.5	26.5	-33.0	-13.0	-20.0	Peak	Horizontal
17065.000	-59.0	31.0	-28.0	-13.0	-15.0	Peak	Horizontal
28065.000	-32.9	4.5	-28.4	-13.0	-15.4	Peak	Horizontal
28505.000	-45.5	4.7	-40.8	-13.0	-27.8	Peak	Horizontal
9066.500	-59.4	22.6	-36.8	-13.0	-23.8	Peak	Vertical
11540.000	-59.0	25.1	-33.9	-13.0	-20.9	Peak	Vertical
28065.000	-26.2	4.8	-21.4	-13.0	-8.4	Peak	Vertical
28505.000	-44.6	4.6	-40.0	-13.0	-27.0	Peak	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Substitution Factor (dB).

Note 2: Substitution Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) + Antenna Gain (dBi) - Pre_Amplifier Gain (dB)

Note 3: Test Distance “d” = 3m.

Test Site	WZ-AC1 & WZ-AC2	Test Engineer	Kin Xia & Tommy Tang
Test Date	2021/12/16 ~ 2021/12/22		
Test Mode	BPSK, 7500kbps, Ant 0	Test Channel	14500MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 9kHz to 30MHz and 40GHz to 75GHz, there is not show in the report.		

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
10418.000	-60.2	25.6	-34.6	-13.0	-21.6	Peak	Horizontal
17252.000	-59.5	31.0	-28.5	-13.0	-15.5	Peak	Horizontal
28065.000	-33.4	4.5	-28.9	-13.0	-15.9	Peak	Horizontal
29000.000	-43.1	4.6	-38.5	-13.0	-25.5	Peak	Horizontal
7434.500	-58.3	20.5	-37.8	-13.0	-24.8	Peak	Vertical
10375.500	-59.7	24.8	-34.9	-13.0	-21.9	Peak	Vertical
28065.000	-27.5	4.8	-22.7	-13.0	-9.7	Peak	Vertical
29000.000	-31.1	4.6	-26.5	-13.0	-13.5	Peak	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Substitution Factor (dB).

Note 2: Substitution Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) + Antenna Gain (dBi) - Pre_Amplifier Gain (dB)

Note 3: Test Distance “d” = 3m.

Test Site	WZ-AC1 & WZ-AC2	Test Engineer	Kin Xia & Tommy Tang
Test Date	2021/12/16 ~ 2021/12/22		
Test Mode	QPSK, 7500kbps, Ant 0	Test Channel	13750MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 9kHz to 30MHz and 40GHz to 75GHz, there is not show in the report.		

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
10248.000	-59.1	25.0	-34.1	-13.0	-21.1	Peak	Horizontal
14702.000	-50.8	26.7	-24.1	-13.0	-11.1	Peak	Horizontal
28065.000	-34.5	4.5	-30.0	-13.0	-17.0	Peak	Horizontal
39384.000	-52.1	10.3	-41.8	-13.0	-28.8	Peak	Horizontal
10324.500	-60.0	25.1	-34.9	-13.0	-21.9	Peak	Vertical
14693.500	-54.7	26.5	-28.2	-13.0	-15.2	Peak	Vertical
28065.000	-25.1	4.8	-20.3	-13.0	-7.3	Peak	Vertical
34885.000	-49.0	5.3	-43.7	-13.0	-30.7	Peak	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Substitution Factor (dB).

Note 2: Substitution Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) + Antenna Gain (dBi) - Pre_Amplifier Gain (dB)

Note 3: Test Distance “d” = 3m.

Test Site	WZ-AC1 & WZ-AC2	Test Engineer	Kin Xia & Tommy Tang
Test Date	2021/12/16 ~ 2021/12/22		
Test Mode	QPSK, 7500kbps, Ant 0	Test Channel	14250MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 9kHz to 30MHz and 40GHz to 75GHz, there is not show in the report.		

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
8106.000	-59.7	21.1	-38.6	-13.0	-25.6	Peak	Horizontal
10826.000	-58.5	25.8	-32.7	-13.0	-19.7	Peak	Horizontal
28065.000	-34.1	4.5	-29.6	-13.0	-16.6	Peak	Horizontal
39417.000	-52.0	10.7	-41.3	-13.0	-28.3	Peak	Horizontal
7035.000	-59.3	19.7	-39.6	-13.0	-26.6	Peak	Vertical
10690.000	-60.1	25.4	-34.7	-13.0	-21.7	Peak	Vertical
28065.000	-25.2	4.8	-20.4	-13.0	-7.4	Peak	Vertical
28505.000	-46.0	4.6	-41.4	-13.0	-28.4	Peak	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Substitution Factor (dB).

Note 2: Substitution Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) + Antenna Gain (dBi) - Pre_Amplifier Gain (dB)

Note 3: Test Distance “d” = 3m.

Test Site	WZ-AC1 & WZ-AC2	Test Engineer	Kin Xia & Tommy Tang
Test Date	2021/12/16 ~ 2021/12/22		
Test Mode	QPSK, 7500kbps, Ant 0	Test Channel	14500MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 9kHz to 30MHz and 40GHz to 75GHz, there is not show in the report.		

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
7519.500	-58.6	20.2	-38.4	-13.0	-25.4	Peak	Horizontal
10877.000	-58.8	25.9	-32.9	-13.0	-19.9	Peak	Horizontal
28065.000	-32.0	4.5	-27.5	-13.0	-14.5	Peak	Horizontal
29000.000	-45.6	4.6	-41.0	-13.0	-28.0	Peak	Horizontal
8021.000	-58.3	20.8	-37.5	-13.0	-24.5	Peak	Vertical
10537.000	-59.3	25.5	-33.8	-13.0	-20.8	Peak	Vertical
28065.000	-27.2	4.8	-22.4	-13.0	-9.4	Peak	Vertical
29000.000	-30.4	4.6	-25.8	-13.0	-12.8	Peak	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Substitution Factor (dB).

Note 2: Substitution Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) + Antenna Gain (dBi) - Pre_Amplifier Gain (dB)

Note 3: Test Distance “d” = 3m.

Test Site	WZ-AC1 & WZ-AC2	Test Engineer	Kin Xia & Tommy Tang
Test Date	2021/12/16 ~ 2021/12/22		
Test Mode	8PSK, 128kbps, Ant 1	Test Channel	13750MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 9kHz to 30MHz and 40GHz to 75GHz, there is not show in the report.		

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
12798.000	-53.4	24.7	-28.7	-13.0	-15.7	Peak	Horizontal
14702.000	-50.5	26.7	-23.8	-13.0	-10.8	Peak	Horizontal
28065.000	-34.4	4.5	-29.9	-13.0	-16.9	Peak	Horizontal
31255.000	-50.5	6.4	-44.1	-13.0	-31.1	Peak	Horizontal
10307.500	-58.9	24.9	-34.0	-13.0	-21.0	Peak	Vertical
14702.000	-48.4	26.6	-21.8	-13.0	-8.8	Peak	Vertical
27504.000	-46.1	4.9	-41.2	-13.0	-28.2	Peak	Vertical
28065.000	-24.3	4.8	-19.5	-13.0	-6.5	Peak	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Substitution Factor (dB).

Note 2: Substitution Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) + Antenna Gain (dBi) - Pre_Amplifier Gain (dB)

Note 3: Test Distance “d” = 3m.

Test Site	WZ-AC1 & WZ-AC2	Test Engineer	Kin Xia & Tommy Tang
Test Date	2021/12/16 ~ 2021/12/22		
Test Mode	8PSK, 128kbps, Ant 1	Test Channel	14250MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 9kHz to 30MHz and 40GHz to 75GHz, there is not show in the report.		

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
10137.500	-59.6	25.3	-34.3	-13.0	-21.3	Peak	Horizontal
17065.000	-59.3	31.0	-28.3	-13.0	-15.3	Peak	Horizontal
28065.000	-34.4	4.5	-29.9	-13.0	-16.9	Peak	Horizontal
28505.000	-45.4	4.7	-40.7	-13.0	-27.7	Peak	Horizontal
7434.500	-59.3	20.5	-38.8	-13.0	-25.8	Peak	Vertical
10707.000	-60.2	25.3	-34.9	-13.0	-21.9	Peak	Vertical
28065.000	-25.0	4.8	-20.2	-13.0	-7.2	Peak	Vertical
28505.000	-42.7	4.6	-38.1	-13.0	-25.1	Peak	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Substitution Factor (dB).

Note 2: Substitution Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) + Antenna Gain (dBi) - Pre_Amplifier Gain (dB)

Note 3: Test Distance “d” = 3m.

Test Site	WZ-AC1 & WZ-AC2	Test Engineer	Kin Xia & Tommy Tang
Test Date	2021/12/16 ~ 2021/12/22		
Test Mode	8PSK, 128kbps, Ant 1	Test Channel	14500MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 9kHz to 30MHz and 40GHz to 75GHz, there is not show in the report.		

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
7630.000	-57.5	19.7	-37.8	-13.0	-24.8	Peak	Horizontal
10792.000	-60.6	26.5	-34.1	-13.0	-21.1	Peak	Horizontal
28065.000	-35.2	4.5	-30.7	-13.0	-17.7	Peak	Horizontal
29000.000	-41.4	4.6	-36.8	-13.0	-23.8	Peak	Horizontal
8072.000	-58.8	20.9	-37.9	-13.0	-24.9	Peak	Vertical
10588.000	-61.5	25.4	-36.1	-13.0	-23.1	Peak	Vertical
28065.000	-26.7	4.8	-21.9	-13.0	-8.9	Peak	Vertical
29000.000	-31.1	4.6	-26.5	-13.0	-13.5	Peak	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Substitution Factor (dB).

Note 2: Substitution Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) + Antenna Gain (dBi) - Pre_Amplifier Gain (dB)

Note 3: Test Distance “d” = 3m.

Test Site	WZ-AC1 & WZ-AC2	Test Engineer	Kin Xia & Tommy Tang
Test Date	2021/12/16 ~ 2021/12/22		
Test Mode	BPSK, 128kbps, Ant 1	Test Channel	13750MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 9kHz to 30MHz and 40GHz to 75GHz, there is not show in the report.		

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
12798.000	-44.5	24.7	-19.8	-13.0	-6.8	Peak	Horizontal
14702.000	-49.4	26.7	-22.7	-13.0	-9.7	Peak	Horizontal
28065.000	-36.3	4.5	-31.8	-13.0	-18.8	Peak	Horizontal
38878.000	-50.5	9.6	-40.9	-13.0	-27.9	Peak	Horizontal
12798.000	-55.3	25.1	-30.2	-13.0	-17.2	Peak	Vertical
14702.000	-47.7	26.6	-21.1	-13.0	-8.1	Peak	Vertical
28065.000	-25.3	4.8	-20.5	-13.0	-7.5	Peak	Vertical
38504.000	-50.1	8.2	-41.9	-13.0	-28.9	Peak	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Substitution Factor (dB).

Note 2: Substitution Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) + Antenna Gain (dBi) - Pre_Amplifier Gain (dB)

Note 3: Test Distance “d” = 3m.

Test Site	WZ-AC1 & WZ-AC2	Test Engineer	Kin Xia & Tommy Tang
Test Date	2021/12/16 ~ 2021/12/22		
Test Mode	BPSK, 128kbps, Ant 1	Test Channel	14250MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 9kHz to 30MHz and 40GHz to 75GHz, there is not show in the report.		

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
7562.000	-58.4	19.7	-38.7	-13.0	-25.7	Peak	Horizontal
14251.500	-15.1	26.5	11.4	-13.0	24.4	Peak	Horizontal
28065.000	-31.3	4.5	-26.8	-13.0	-13.8	Peak	Horizontal
28505.000	-45.1	4.7	-40.4	-13.0	-27.4	Peak	Horizontal
7502.500	-59.0	20.5	-38.5	-13.0	-25.5	Peak	Vertical
11123.500	-59.7	25.1	-34.6	-13.0	-21.6	Peak	Vertical
28065.000	-25.1	4.8	-20.3	-13.0	-7.3	Peak	Vertical
28505.000	-43.4	4.6	-38.8	-13.0	-25.8	Peak	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Substitution Factor (dB).

Note 2: Substitution Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) + Antenna Gain (dBi) - Pre_Amplifier Gain (dB)

Note 3: Test Distance “d” = 3m.

Test Site	WZ-AC1 & WZ-AC2	Test Engineer	Kin Xia & Tommy Tang
Test Date	2021/12/16 ~ 2021/12/22		
Test Mode	BPSK, 128kbps, Ant 1	Test Channel	14500MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 9kHz to 30MHz and 40GHz to 75GHz, there is not show in the report.		

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
7681.000	-58.3	19.7	-38.6	-13.0	-25.6	Peak	Horizontal
10596.500	-59.4	25.8	-33.6	-13.0	-20.6	Peak	Horizontal
28065.000	-36.0	4.5	-31.5	-13.0	-18.5	Peak	Horizontal
29000.000	-34.1	4.6	-29.5	-13.0	-16.5	Peak	Horizontal
8811.500	-59.1	21.9	-37.2	-13.0	-24.2	Peak	Vertical
12186.000	-59.0	24.5	-34.5	-13.0	-21.5	Peak	Vertical
28065.000	-25.2	4.8	-20.4	-13.0	-7.4	Peak	Vertical
29000.000	-27.1	4.6	-22.5	-13.0	-9.5	Peak	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Substitution Factor (dB).

Note 2: Substitution Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) + Antenna Gain (dBi) - Pre_Amplifier Gain (dB)

Note 3: Test Distance “d” = 3m.

Test Site	WZ-AC1 & WZ-AC2	Test Engineer	Kin Xia & Tommy Tang
Test Date	2021/12/16 ~ 2021/12/22		
Test Mode	QPSK, 128kbps, Ant 1	Test Channel	13750MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 9kHz to 30MHz and 40GHz to 75GHz, there is not show in the report.		

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
12798.000	-54.4	24.7	-29.7	-13.0	-16.7	Peak	Horizontal
14702.000	-48.8	26.7	-22.1	-13.0	-9.1	Peak	Horizontal
25601.000	-50.2	5.0	-45.2	-13.0	-32.2	Peak	Horizontal
28065.000	-35.6	4.5	-31.1	-13.0	-18.1	Peak	Horizontal
10418.000	-59.7	25.5	-34.2	-13.0	-21.2	Peak	Vertical
14702.000	-47.6	26.6	-21.0	-13.0	-8.0	Peak	Vertical
27504.000	-47.5	4.9	-42.6	-13.0	-29.6	Peak	Vertical
28065.000	-25.7	4.8	-20.9	-13.0	-7.9	Peak	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Substitution Factor (dB).

Note 2: Substitution Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) + Antenna Gain (dBi) - Pre_Amplifier Gain (dB)

Note 3: Test Distance “d” = 3m.

Test Site	WZ-AC1 & WZ-AC2	Test Engineer	Kin Xia & Tommy Tang
Test Date	2021/12/16 ~ 2021/12/22		
Test Mode	QPSK, 128kbps, Ant 1	Test Channel	14250MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 9kHz to 30MHz and 40GHz to 75GHz, there is not show in the report.		

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
7434.500	-58.6	20.4	-38.2	-13.0	-25.2	Peak	Horizontal
10554.000	-59.0	26.0	-33.0	-13.0	-20.0	Peak	Horizontal
28065.000	-35.5	4.5	-31.0	-13.0	-18.0	Peak	Horizontal
28505.000	-45.5	4.7	-40.8	-13.0	-27.8	Peak	Horizontal
7621.500	-59.2	20.1	-39.1	-13.0	-26.1	Peak	Vertical
10885.500	-60.0	25.3	-34.7	-13.0	-21.7	Peak	Vertical
28065.000	-24.5	4.8	-19.7	-13.0	-6.7	Peak	Vertical
28505.000	-44.4	4.6	-39.8	-13.0	-26.8	Peak	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Substitution Factor (dB).

Note 2: Substitution Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) + Antenna Gain (dBi) - Pre_Amplifier Gain (dB)

Note 3: Test Distance “d” = 3m.

Test Site	WZ-AC1 & WZ-AC2	Test Engineer	Kin Xia & Tommy Tang
Test Date	2021/12/16 ~ 2021/12/22		
Test Mode	QPSK, 128kbps, Ant 1	Test Channel	14500MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 9kHz to 30MHz and 40GHz to 75GHz, there is not show in the report.		

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
7519.500	-58.2	20.2	-38.0	-13.0	-25.0	Peak	Horizontal
10775.000	-59.8	25.7	-34.1	-13.0	-21.1	Peak	Horizontal
28065.000	-31.9	4.5	-27.4	-13.0	-14.4	Peak	Horizontal
29000.000	-41.1	4.6	-36.5	-13.0	-23.5	Peak	Horizontal
9789.000	-60.4	24.7	-35.7	-13.0	-22.7	Peak	Vertical
17388.000	-58.4	29.3	-29.1	-13.0	-16.1	Peak	Vertical
28065.000	-27.0	4.8	-22.2	-13.0	-9.2	Peak	Vertical
29000.000	-28.4	4.6	-23.8	-13.0	-10.8	Peak	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Substitution Factor (dB).

Note 2: Substitution Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) + Antenna Gain (dBi) - Pre_Amplifier Gain (dB)

Note 3: Test Distance “d” = 3m.

Test Site	WZ-AC1 & WZ-AC2	Test Engineer	Kin Xia & Tommy Tang
Test Date	2021/12/16 ~ 2021/12/22		
Test Mode	8PSK, 7500kbps, Ant 1	Test Channel	13750MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 9kHz to 30MHz and 40GHz to 75GHz, there is not show in the report.		

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
10613.500	-59.6	25.5	-34.1	-13.0	-21.1	Peak	Horizontal
14693.500	-54.3	26.7	-27.6	-13.0	-14.6	Peak	Horizontal
28065.000	-33.0	4.5	-28.5	-13.0	-15.5	Peak	Horizontal
39439.000	-52.5	10.7	-41.8	-13.0	-28.8	Peak	Horizontal
10894.000	-60.0	25.6	-34.4	-13.0	-21.4	Peak	Vertical
14702.000	-54.2	26.6	-27.6	-13.0	-14.6	Peak	Vertical
28065.000	-24.8	4.8	-20.0	-13.0	-7.0	Peak	Vertical
36370.000	-48.7	6.0	-42.7	-13.0	-29.7	Peak	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Substitution Factor (dB).

Note 2: Substitution Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) + Antenna Gain (dBi) - Pre_Amplifier Gain (dB)

Note 3: Test Distance “d” = 3m.

Test Site	WZ-AC1 & WZ-AC2	Test Engineer	Kin Xia & Tommy Tang
Test Date	2021/12/16 ~ 2021/12/22		
Test Mode	8PSK, 7500kbps, Ant 1	Test Channel	14250MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 9kHz to 30MHz and 40GHz to 75GHz, there is not show in the report.		

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
10894.000	-60.6	26.0	-34.6	-13.0	-21.6	Peak	Horizontal
17150.000	-59.7	31.7	-28.0	-13.0	-15.0	Peak	Horizontal
28065.000	-33.7	4.5	-29.2	-13.0	-16.2	Peak	Horizontal
39241.000	-52.5	10.8	-41.7	-13.0	-28.7	Peak	Horizontal
8046.500	-59.2	20.6	-38.6	-13.0	-25.6	Peak	Vertical
10375.500	-59.8	24.8	-35.0	-13.0	-22.0	Peak	Vertical
28065.000	-26.2	4.8	-21.4	-13.0	-8.4	Peak	Vertical
28494.000	-47.2	4.4	-42.8	-13.0	-29.8	Peak	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Substitution Factor (dB).

Note 2: Substitution Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) + Antenna Gain (dBi) - Pre_Amplifier Gain (dB)

Note 3: Test Distance “d” = 3m.

Test Site	WZ-AC1 & WZ-AC2	Test Engineer	Kin Xia & Tommy Tang
Test Date	2021/12/16 ~ 2021/12/22		
Test Mode	8PSK, 7500kbps, Ant 1	Test Channel	14500MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 9kHz to 30MHz and 40GHz to 75GHz, there is not show in the report.		

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
10877.000	-60.1	25.9	-34.2	-13.0	-21.2	Peak	Horizontal
17082.000	-60.0	31.5	-28.5	-13.0	-15.5	Peak	Horizontal
28065.000	-33.3	4.5	-28.8	-13.0	-15.8	Peak	Horizontal
29000.000	-44.6	4.6	-40.0	-13.0	-27.0	Peak	Horizontal
7434.500	-58.2	20.5	-37.7	-13.0	-24.7	Peak	Vertical
10877.000	-61.0	25.0	-36.0	-13.0	-23.0	Peak	Vertical
28065.000	-26.6	4.8	-21.8	-13.0	-8.8	Peak	Vertical
29000.000	-38.9	4.6	-34.3	-13.0	-21.3	Peak	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Substitution Factor (dB).

Note 2: Substitution Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) + Antenna Gain (dBi) - Pre_Amplifier Gain (dB)

Note 3: Test Distance “d” = 3m.

Test Site	WZ-AC1 & WZ-AC2	Test Engineer	Kin Xia & Tommy Tang
Test Date	2021/12/16 ~ 2021/12/22		
Test Mode	BPSK, 7500kbps, Ant 1	Test Channel	13750MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 9kHz to 30MHz and 40GHz to 75GHz, there is not show in the report.		

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
10307.500	-59.4	25.4	-34.0	-13.0	-21.0	Peak	Horizontal
14702.000	-51.1	26.7	-24.4	-13.0	-11.4	Peak	Horizontal
28065.000	-35.4	4.5	-30.9	-13.0	-17.9	Peak	Horizontal
31299.000	-52.3	7.0	-45.3	-13.0	-32.3	Peak	Horizontal
10528.500	-59.7	25.3	-34.4	-13.0	-21.4	Peak	Vertical
14702.000	-51.4	26.6	-24.8	-13.0	-11.8	Peak	Vertical
28065.000	-24.6	4.8	-19.8	-13.0	-6.8	Peak	Vertical
36183.000	-48.9	5.5	-43.4	-13.0	-30.4	Peak	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Substitution Factor (dB).

Note 2: Substitution Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) + Antenna Gain (dBi) - Pre_Amplifier Gain (dB)

Note 3: Test Distance “d” = 3m.

Test Site	WZ-AC1 & WZ-AC2	Test Engineer	Kin Xia & Tommy Tang
Test Date	2021/12/16 ~ 2021/12/22		
Test Mode	BPSK, 7500kbps, Ant 1	Test Channel	14250MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 9kHz to 30MHz and 40GHz to 75GHz, there is not show in the report.		

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
7536.500	-59.0	20.3	-38.7	-13.0	-25.7	Peak	Horizontal
10707.000	-60.0	25.5	-34.5	-13.0	-21.5	Peak	Horizontal
28065.000	-34.8	4.5	-30.3	-13.0	-17.3	Peak	Horizontal
28505.000	-45.0	4.7	-40.3	-13.0	-27.3	Peak	Horizontal
7536.500	-58.7	20.4	-38.3	-13.0	-25.3	Peak	Vertical
11072.500	-61.9	24.6	-37.3	-13.0	-24.3	Peak	Vertical
28065.000	-25.7	4.8	-20.9	-13.0	-7.9	Peak	Vertical
28505.000	-44.9	4.6	-40.3	-13.0	-27.3	Peak	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Substitution Factor (dB).

Note 2: Substitution Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) + Antenna Gain (dBi) - Pre_Amplifier Gain (dB)

Note 3: Test Distance “d” = 3m.

Test Site	WZ-AC1 & WZ-AC2	Test Engineer	Kin Xia & Tommy Tang
Test Date	2021/12/16 ~ 2021/12/22		
Test Mode	BPSK, 7500kbps, Ant 1	Test Channel	14500MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 9kHz to 30MHz and 40GHz to 75GHz, there is not show in the report.		

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
7987.000	-59.9	21.0	-38.9	-13.0	-25.9	Peak	Horizontal
10698.500	-60.0	25.7	-34.3	-13.0	-21.3	Peak	Horizontal
28065.000	-36.7	4.5	-32.2	-13.0	-19.2	Peak	Horizontal
29000.000	-41.3	4.6	-36.7	-13.0	-23.7	Peak	Horizontal
8650.000	-58.2	21.7	-36.5	-13.0	-23.5	Peak	Vertical
10928.000	-61.3	25.2	-36.1	-13.0	-23.1	Peak	Vertical
28065.000	-25.3	4.8	-20.5	-13.0	-7.5	Peak	Vertical
29000.000	-34.3	4.6	-29.7	-13.0	-16.7	Peak	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Substitution Factor (dB).

Note 2: Substitution Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) + Antenna Gain (dBi) - Pre_Amplifier Gain (dB)

Note 3: Test Distance “d” = 3m.

Test Site	WZ-AC1 & WZ-AC2	Test Engineer	Kin Xia & Tommy Tang
Test Date	2021/12/16 ~ 2021/12/22		
Test Mode	QPSK, 7500kbps, Ant 1	Test Channel	13750MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 9kHz to 30MHz and 40GHz to 75GHz, there is not show in the report.		

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
10528.500	-60.2	25.7	-34.5	-13.0	-21.5	Peak	Horizontal
14693.500	-52.8	26.7	-26.1	-13.0	-13.1	Peak	Horizontal
28065.000	-32.2	4.5	-27.7	-13.0	-14.7	Peak	Horizontal
39472.000	-52.6	11.2	-41.4	-13.0	-28.4	Peak	Horizontal
10579.500	-60.1	25.1	-35.0	-13.0	-22.0	Peak	Vertical
14702.000	-52.6	26.6	-26.0	-13.0	-13.0	Peak	Vertical
25601.000	-49.9	5.1	-44.8	-13.0	-31.8	Peak	Vertical
28065.000	-24.6	4.8	-19.8	-13.0	-6.8	Peak	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Substitution Factor (dB).

Note 2: Substitution Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) + Antenna Gain (dBi) - Pre_Amplifier Gain (dB)

Note 3: Test Distance “d” = 3m.

Test Site	WZ-AC1 & WZ-AC2	Test Engineer	Kin Xia & Tommy Tang
Test Date	2021/12/16 ~ 2021/12/22		
Test Mode	QPSK, 7500kbps, Ant 1	Test Channel	14250MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 9kHz to 30MHz and 40GHz to 75GHz, there is not show in the report.		

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
7570.500	-58.0	19.7	-38.3	-13.0	-25.3	Peak	Horizontal
10647.500	-59.8	25.6	-34.2	-13.0	-21.2	Peak	Horizontal
28065.000	-32.1	4.5	-27.6	-13.0	-14.6	Peak	Horizontal
28505.000	-49.6	4.7	-44.9	-13.0	-31.9	Peak	Horizontal
7528.000	-58.9	20.5	-38.4	-13.0	-25.4	Peak	Vertical
10894.000	-60.2	25.6	-34.6	-13.0	-21.6	Peak	Vertical
28065.000	-26.1	4.8	-21.3	-13.0	-8.3	Peak	Vertical
28505.000	-48.2	4.6	-43.6	-13.0	-30.6	Peak	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Substitution Factor (dB).

Note 2: Substitution Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) + Antenna Gain (dBi) - Pre_Amplifier Gain (dB)

Note 3: Test Distance “d” = 3m.

Test Site	WZ-AC1 & WZ-AC2	Test Engineer	Kin Xia & Tommy Tang
Test Date	2021/12/16 ~ 2021/12/22		
Test Mode	QPSK, 7500kbps, Ant 1	Test Channel	14500MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 9kHz to 30MHz and 40GHz to 75GHz, there is not show in the report.		

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
7545.000	-59.2	20.4	-38.8	-13.0	-25.8	Peak	Horizontal
10299.000	-59.3	25.3	-34.0	-13.0	-21.0	Peak	Horizontal
28065.000	-34.0	4.5	-29.5	-13.0	-16.5	Peak	Horizontal
29000.000	-44.1	4.6	-39.5	-13.0	-26.5	Peak	Horizontal
10273.500	-60.3	24.7	-35.6	-13.0	-22.6	Peak	Vertical
12407.000	-59.6	24.5	-35.1	-13.0	-22.1	Peak	Vertical
28065.000	-26.6	4.8	-21.8	-13.0	-8.8	Peak	Vertical
29000.000	-36.3	4.6	-31.7	-13.0	-18.7	Peak	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Substitution Factor (dB).

Note 2: Substitution Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) + Antenna Gain (dBi) - Pre_Amplifier Gain (dB)

Note 3: Test Distance “d” = 3m.

Test Site	WZ-AC1 & WZ-AC2	Test Engineer	Kin Xia & Tommy Tang
Test Date	2021/12/16 ~ 2021/12/22		
Test Mode	8PSK, 128kbps, Ant 0+1	Test Channel	13750MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 9kHz to 30MHz and 40GHz to 75GHz, there is not show in the report.		

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
10545.500	-60.2	25.9	-34.3	-13.0	-21.3	Peak	Horizontal
14702.000	-51.3	26.7	-24.6	-13.0	-11.6	Peak	Horizontal
28065.000	-32.3	4.5	-27.8	-13.0	-14.8	Peak	Horizontal
39395.000	-51.5	10.5	-41.0	-13.0	-28.0	Peak	Horizontal
10188.500	-59.3	24.7	-34.6	-13.0	-21.6	Peak	Vertical
14702.000	-49.2	26.6	-22.6	-13.0	-9.6	Peak	Vertical
28065.000	-26.3	4.8	-21.5	-13.0	-8.5	Peak	Vertical
39186.000	-51.0	10.2	-40.8	-13.0	-27.8	Peak	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Substitution Factor (dB).

Note 2: Substitution Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) + Antenna Gain (dBi) - Pre_Amplifier Gain (dB)

Note 3: Test Distance “d” = 3m.

Test Site	WZ-AC1 & WZ-AC2	Test Engineer	Kin Xia & Tommy Tang
Test Date	2021/12/16 ~ 2021/12/22		
Test Mode	8PSK, 128kbps, Ant 0+1	Test Channel	14250MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 9kHz to 30MHz and 40GHz to 75GHz, there is not show in the report.		

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
7247.500	-58.7	20.0	-38.7	-13.0	-25.7	Peak	Horizontal
11047.000	-59.0	25.4	-33.6	-13.0	-20.6	Peak	Horizontal
28065.000	-35.8	4.5	-31.3	-13.0	-18.3	Peak	Horizontal
28505.000	-44.9	4.7	-40.2	-13.0	-27.2	Peak	Horizontal
7638.500	-58.0	20.0	-38.0	-13.0	-25.0	Peak	Vertical
10885.500	-60.1	25.3	-34.8	-13.0	-21.8	Peak	Vertical
28065.000	-25.7	4.8	-20.9	-13.0	-7.9	Peak	Vertical
28505.000	-44.8	4.6	-40.2	-13.0	-27.2	Peak	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Substitution Factor (dB).

Note 2: Substitution Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) + Antenna Gain (dBi) - Pre_Amplifier Gain (dB)

Note 3: Test Distance “d” = 3m.

Test Site	WZ-AC1 & WZ-AC2	Test Engineer	Kin Xia & Tommy Tang
Test Date	2021/12/16 ~ 2021/12/22		
Test Mode	8PSK, 128kbps, Ant 0+1	Test Channel	14500MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 9kHz to 30MHz and 40GHz to 75GHz, there is not show in the report.		

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
10860.000	-58.9	25.6	-33.3	-13.0	-20.3	Peak	Horizontal
17082.000	-59.6	31.5	-28.1	-13.0	-15.1	Peak	Horizontal
28065.000	-32.7	4.5	-28.2	-13.0	-15.2	Peak	Horizontal
29000.000	-43.3	4.6	-38.7	-13.0	-25.7	Peak	Horizontal
7460.000	-57.9	20.3	-37.6	-13.0	-24.6	Peak	Vertical
10894.000	-60.0	25.6	-34.4	-13.0	-21.4	Peak	Vertical
28065.000	-25.5	4.8	-20.7	-13.0	-7.7	Peak	Vertical
29000.000	-27.5	4.6	-22.9	-13.0	-9.9	Peak	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Substitution Factor (dB).

Note 2: Substitution Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) + Antenna Gain (dBi) - Pre_Amplifier Gain (dB)

Note 3: Test Distance “d” = 3m.

Test Site	WZ-AC1 & WZ-AC2	Test Engineer	Kin Xia & Tommy Tang
Test Date	2021/12/16 ~ 2021/12/22		
Test Mode	BPSK, 128kbps, Ant 0+1	Test Channel	13750MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 9kHz to 30MHz and 40GHz to 75GHz, there is not show in the report.		

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
10528.500	-59.1	25.7	-33.4	-13.0	-20.4	Peak	Horizontal
14702.000	-49.0	26.7	-22.3	-13.0	-9.3	Peak	Horizontal
28065.000	-34.1	4.5	-29.6	-13.0	-16.6	Peak	Horizontal
38482.000	-50.9	9.1	-41.8	-13.0	-28.8	Peak	Horizontal
10350.000	-59.5	25.0	-34.5	-13.0	-21.5	Peak	Vertical
14702.000	-54.8	26.6	-28.2	-13.0	-15.2	Peak	Vertical
28065.000	-26.1	4.8	-21.3	-13.0	-8.3	Peak	Vertical
39296.000	-52.2	10.8	-41.4	-13.0	-28.4	Peak	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Substitution Factor (dB).

Note 2: Substitution Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) + Antenna Gain (dBi) - Pre_Amplifier Gain (dB)

Note 3: Test Distance “d” = 3m.

Test Site	WZ-AC1 & WZ-AC2	Test Engineer	Kin Xia & Tommy Tang
Test Date	2021/12/16 ~ 2021/12/22		
Test Mode	BPSK, 128kbps, Ant 0+1	Test Channel	14250MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 9kHz to 30MHz and 40GHz to 75GHz, there is not show in the report.		

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
8641.500	-58.5	21.7	-36.8	-13.0	-23.8	Peak	Horizontal
10877.000	-59.3	25.9	-33.4	-13.0	-20.4	Peak	Horizontal
28065.000	-31.8	4.5	-27.3	-13.0	-14.3	Peak	Horizontal
39208.000	-50.7	10.4	-40.3	-13.0	-27.3	Peak	Horizontal
7995.500	-59.5	20.9	-38.6	-13.0	-25.6	Peak	Vertical
10520.000	-59.8	25.0	-34.8	-13.0	-21.8	Peak	Vertical
28065.000	-24.7	4.8	-19.9	-13.0	-6.9	Peak	Vertical
28505.000	-43.5	4.6	-38.9	-13.0	-25.9	Peak	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Substitution Factor (dB).

Note 2: Substitution Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) + Antenna Gain (dBi) - Pre_Amplifier Gain (dB)

Note 3: Test Distance “d” = 3m.

Test Site	WZ-AC1 & WZ-AC2	Test Engineer	Kin Xia & Tommy Tang
Test Date	2021/12/16 ~ 2021/12/22		
Test Mode	BPSK, 128kbps, Ant 0+1	Test Channel	14500MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 9kHz to 30MHz and 40GHz to 75GHz, there is not show in the report.		

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
10792.000	-60.2	26.5	-33.7	-13.0	-20.7	Peak	Horizontal
17150.000	-59.3	31.7	-27.6	-13.0	-14.6	Peak	Horizontal
28065.000	-35.5	4.5	-31.0	-13.0	-18.0	Peak	Horizontal
29000.000	-41.8	4.6	-37.2	-13.0	-24.2	Peak	Horizontal
7528.000	-58.7	20.5	-38.2	-13.0	-25.2	Peak	Vertical
11489.000	-59.1	24.9	-34.2	-13.0	-21.2	Peak	Vertical
28065.000	-27.2	4.8	-22.4	-13.0	-9.4	Peak	Vertical
29000.000	-24.0	4.6	-19.4	-13.0	-6.4	Peak	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Substitution Factor (dB).

Note 2: Substitution Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) + Antenna Gain (dBi) - Pre_Amplifier Gain (dB)

Note 3: Test Distance “d” = 3m.

Test Site	WZ-AC1 & WZ-AC2	Test Engineer	Kin Xia & Tommy Tang
Test Date	2021/12/16 ~ 2021/12/22		
Test Mode	QPSK, 128kbps, Ant 0+1	Test Channel	13750MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 9kHz to 30MHz and 40GHz to 75GHz, there is not show in the report.		

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
10469.000	-60.3	25.9	-34.4	-13.0	-21.4	Peak	Horizontal
14702.000	-48.5	26.7	-21.8	-13.0	-8.8	Peak	Horizontal
28065.000	-32.1	4.5	-27.6	-13.0	-14.6	Peak	Horizontal
38889.000	-51.4	9.6	-41.8	-13.0	-28.8	Peak	Horizontal
10494.500	-60.2	25.0	-35.2	-13.0	-22.2	Peak	Vertical
14702.000	-53.5	26.6	-26.9	-13.0	-13.9	Peak	Vertical
27504.000	-48.5	4.9	-43.6	-13.0	-30.6	Peak	Vertical
28065.000	-24.6	4.8	-19.8	-13.0	-6.8	Peak	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Substitution Factor (dB).

Note 2: Substitution Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) + Antenna Gain (dBi) - Pre_Amplifier Gain (dB)

Note 3: Test Distance “d” = 3m.

Test Site	WZ-AC1 & WZ-AC2	Test Engineer	Kin Xia & Tommy Tang
Test Date	2021/12/16 ~ 2021/12/22		
Test Mode	QPSK, 128kbps, Ant 0+1	Test Channel	14250MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 9kHz to 30MHz and 40GHz to 75GHz, there is not show in the report.		

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
7553.500	-58.6	20.0	-38.6	-13.0	-25.6	Peak	Horizontal
10290.500	-59.5	25.3	-34.2	-13.0	-21.2	Peak	Horizontal
28065.000	-35.7	4.5	-31.2	-13.0	-18.2	Peak	Horizontal
28505.000	-45.0	4.7	-40.3	-13.0	-27.3	Peak	Horizontal
7366.500	-59.3	20.1	-39.2	-13.0	-26.2	Peak	Vertical
10418.000	-60.1	25.5	-34.6	-13.0	-21.6	Peak	Vertical
28065.000	-25.9	4.8	-21.1	-13.0	-8.1	Peak	Vertical
28505.000	-43.5	4.6	-38.9	-13.0	-25.9	Peak	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Substitution Factor (dB).

Note 2: Substitution Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) + Antenna Gain (dBi) - Pre_Amplifier Gain (dB)

Note 3: Test Distance “d” = 3m.

Test Site	WZ-AC1 & WZ-AC2	Test Engineer	Kin Xia & Tommy Tang
Test Date	2021/12/16 ~ 2021/12/22		
Test Mode	QPSK, 128kbps, Ant 0+1	Test Channel	14500MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 9kHz to 30MHz and 40GHz to 75GHz, there is not show in the report.		

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
7179.500	-59.4	19.6	-39.8	-13.0	-26.8	Peak	Horizontal
10579.500	-60.3	26.0	-34.3	-13.0	-21.3	Peak	Horizontal
28065.000	-35.6	4.5	-31.1	-13.0	-18.1	Peak	Horizontal
29000.000	-43.3	4.6	-38.7	-13.0	-25.7	Peak	Horizontal
7545.000	-58.5	20.4	-38.1	-13.0	-25.1	Peak	Vertical
11531.500	-58.7	25.1	-33.6	-13.0	-20.6	Peak	Vertical
28065.000	-27.8	4.8	-23.0	-13.0	-10.0	Peak	Vertical
29000.000	-28.0	4.6	-23.4	-13.0	-10.4	Peak	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Substitution Factor (dB).

Note 2: Substitution Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) + Antenna Gain (dBi) - Pre_Amplifier Gain (dB)

Note 3: Test Distance “d” = 3m.

Test Site	WZ-AC1 & WZ-AC2	Test Engineer	Kin Xia & Tommy Tang
Test Date	2021/12/16 ~ 2021/12/22		
Test Mode	8PSK, 7500kbps, Ant 0+1	Test Channel	13750MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 9kHz to 30MHz and 40GHz to 75GHz, there is not show in the report.		

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
10375.500	-59.9	25.5	-34.4	-13.0	-21.4	Peak	Horizontal
14702.000	-56.0	26.6	-29.4	-13.0	-16.4	Peak	Horizontal
28065.000	-36.0	4.5	-31.5	-13.0	-18.5	Peak	Horizontal
39472.000	-52.2	11.2	-41.0	-13.0	-28.0	Peak	Horizontal
10324.500	-59.4	25.1	-34.3	-13.0	-21.3	Peak	Vertical
14702.000	-57.6	26.6	-31.0	-13.0	-18.0	Peak	Vertical
28065.000	-25.4	4.8	-20.6	-13.0	-7.6	Peak	Vertical
36348.000	-49.2	6.4	-42.8	-13.0	-29.8	Peak	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Substitution Factor (dB).

Note 2: Substitution Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) + Antenna Gain (dBi) - Pre_Amplifier Gain (dB)

Note 3: Test Distance “d” = 3m.

Test Site	WZ-AC1 & WZ-AC2	Test Engineer	Kin Xia & Tommy Tang
Test Date	2021/12/16 ~ 2021/12/22		
Test Mode	8PSK, 7500kbps, Ant 0+1	Test Channel	14250MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 9kHz to 30MHz and 40GHz to 75GHz, there is not show in the report.		

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
6346.500	-58.5	17.0	-41.5	-13.0	-28.5	Peak	Horizontal
10409.500	-59.4	25.7	-33.7	-13.0	-20.7	Peak	Horizontal
28065.000	-33.7	4.5	-29.2	-13.0	-16.2	Peak	Horizontal
39428.000	-51.6	10.8	-40.8	-13.0	-27.8	Peak	Horizontal
7443.000	-59.3	20.4	-38.9	-13.0	-25.9	Peak	Vertical
11106.500	-59.9	25.4	-34.5	-13.0	-21.5	Peak	Vertical
28065.000	-26.0	4.8	-21.2	-13.0	-8.2	Peak	Vertical
39219.000	-51.5	10.3	-41.2	-13.0	-28.2	Peak	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Substitution Factor (dB).

Note 2: Substitution Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) + Antenna Gain (dBi) - Pre_Amplifier Gain (dB)

Note 3: Test Distance “d” = 3m.

Test Site	WZ-AC1 & WZ-AC2	Test Engineer	Kin Xia & Tommy Tang
Test Date	2021/12/16 ~ 2021/12/22		
Test Mode	8PSK, 7500kbps, Ant 0+1	Test Channel	14500MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 9kHz to 30MHz and 40GHz to 75GHz, there is not show in the report.		

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
7494.000	-58.8	20.3	-38.5	-13.0	-25.5	Peak	Horizontal
10885.500	-60.0	26.0	-34.0	-13.0	-21.0	Peak	Horizontal
28065.000	-32.8	4.5	-28.3	-13.0	-15.3	Peak	Horizontal
29000.000	-42.2	4.6	-37.6	-13.0	-24.6	Peak	Horizontal
7511.000	-59.0	20.5	-38.5	-13.0	-25.5	Peak	Vertical
10435.000	-60.1	25.6	-34.5	-13.0	-21.5	Peak	Vertical
28065.000	-26.8	4.8	-22.0	-13.0	-9.0	Peak	Vertical
29000.000	-33.0	4.6	-28.4	-13.0	-15.4	Peak	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Substitution Factor (dB).

Note 2: Substitution Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) + Antenna Gain (dBi) - Pre_Amplifier Gain (dB)

Note 3: Test Distance “d” = 3m.

Test Site	WZ-AC1 & WZ-AC2	Test Engineer	Kin Xia & Tommy Tang
Test Date	2021/12/16 ~ 2021/12/22		
Test Mode	BPSK, 7500kbps, Ant 0+1	Test Channel	13750MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 9kHz to 30MHz and 40GHz to 75GHz, there is not show in the report.		

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
10877.000	-60.1	25.9	-34.2	-13.0	-21.2	Peak	Horizontal
14702.000	-55.2	26.7	-28.5	-13.0	-15.5	Peak	Horizontal
28065.000	-31.8	4.5	-27.3	-13.0	-14.3	Peak	Horizontal
38867.000	-50.7	9.3	-41.4	-13.0	-28.4	Peak	Horizontal
8021.000	-59.0	20.8	-38.2	-13.0	-25.2	Peak	Vertical
10333.000	-59.5	25.5	-34.0	-13.0	-21.0	Peak	Vertical
28065.000	-24.3	4.8	-19.5	-13.0	-6.5	Peak	Vertical
39263.000	-52.3	10.8	-41.5	-13.0	-28.5	Peak	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Substitution Factor (dB).

Note 2: Substitution Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) + Antenna Gain (dBi) - Pre_Amplifier Gain (dB)

Note 3: Test Distance “d” = 3m.

Test Site	WZ-AC1 & WZ-AC2	Test Engineer	Kin Xia & Tommy Tang
Test Date	2021/12/16 ~ 2021/12/22		
Test Mode	BPSK, 7500kbps, Ant 0+1	Test Channel	14250MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 9kHz to 30MHz and 40GHz to 75GHz, there is not show in the report.		

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
7842.500	-58.5	20.0	-38.5	-13.0	-25.5	Peak	Horizontal
10554.000	-60.3	26.0	-34.3	-13.0	-21.3	Peak	Horizontal
28065.000	-32.7	4.5	-28.2	-13.0	-15.2	Peak	Horizontal
39263.000	-51.4	10.7	-40.7	-13.0	-27.7	Peak	Horizontal
8063.500	-58.9	20.8	-38.1	-13.0	-25.1	Peak	Vertical
10783.500	-59.4	24.8	-34.6	-13.0	-21.6	Peak	Vertical
28065.000	-24.6	4.8	-19.8	-13.0	-6.8	Peak	Vertical
28505.000	-45.1	4.6	-40.5	-13.0	-27.5	Peak	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Substitution Factor (dB).

Note 2: Substitution Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) + Antenna Gain (dBi) - Pre_Amplifier Gain (dB)

Note 3: Test Distance “d” = 3m.

Test Site	WZ-AC1 & WZ-AC2	Test Engineer	Kin Xia & Tommy Tang
Test Date	2021/12/16 ~ 2021/12/22		
Test Mode	BPSK, 7500kbps, Ant 0+1	Test Channel	14500MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 9kHz to 30MHz and 40GHz to 75GHz, there is not show in the report.		

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
7443.000	-58.8	20.2	-38.6	-13.0	-25.6	Peak	Horizontal
10792.000	-60.0	26.5	-33.5	-13.0	-20.5	Peak	Horizontal
28065.000	-36.4	4.5	-31.9	-13.0	-18.9	Peak	Horizontal
29000.000	-43.3	4.6	-38.7	-13.0	-25.7	Peak	Horizontal
7477.000	-58.3	20.2	-38.1	-13.0	-25.1	Peak	Vertical
10902.500	-59.5	25.5	-34.0	-13.0	-21.0	Peak	Vertical
28065.000	-25.5	4.8	-20.7	-13.0	-7.7	Peak	Vertical
29000.000	-36.4	4.6	-31.8	-13.0	-18.8	Peak	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Substitution Factor (dB).

Note 2: Substitution Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) + Antenna Gain (dBi) - Pre_Amplifier Gain (dB)

Note 3: Test Distance “d” = 3m.

Test Site	WZ-AC1 & WZ-AC2	Test Engineer	Kin Xia & Tommy Tang
Test Date	2021/12/16 ~ 2021/12/22		
Test Mode	QPSK, 7500kbps, Ant 0+1	Test Channel	13750MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 9kHz to 30MHz and 40GHz to 75GHz, there is not show in the report.		

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
10919.500	-60.0	25.8	-34.2	-13.0	-21.2	Peak	Horizontal
14702.000	-56.5	26.7	-29.8	-13.0	-16.8	Peak	Horizontal
28065.000	-35.2	4.5	-30.7	-13.0	-17.7	Peak	Horizontal
39197.000	-51.9	10.0	-41.9	-13.0	-28.9	Peak	Horizontal
7528.000	-58.7	20.5	-38.2	-13.0	-25.2	Peak	Vertical
10877.000	-59.5	25.0	-34.5	-13.0	-21.5	Peak	Vertical
28065.000	-25.2	4.8	-20.4	-13.0	-7.4	Peak	Vertical
39285.000	-52.4	10.8	-41.6	-13.0	-28.6	Peak	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Substitution Factor (dB).

Note 2: Substitution Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) + Antenna Gain (dBi) - Pre_Amplifier Gain (dB)

Note 3: Test Distance “d” = 3m.

Test Site	WZ-AC1 & WZ-AC2	Test Engineer	Kin Xia & Tommy Tang
Test Date	2021/12/16 ~ 2021/12/22		
Test Mode	QPSK, 7500kbps, Ant 0+1	Test Channel	14250MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 9kHz to 30MHz and 40GHz to 75GHz, there is not show in the report.		

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
7987.000	-59.0	21.0	-38.0	-13.0	-25.0	Peak	Horizontal
10477.500	-60.2	25.9	-34.3	-13.0	-21.3	Peak	Horizontal
28065.000	-33.1	4.5	-28.6	-13.0	-15.6	Peak	Horizontal
39208.000	-51.3	10.4	-40.9	-13.0	-27.9	Peak	Horizontal
7188.000	-59.3	20.1	-39.2	-13.0	-26.2	Peak	Vertical
11030.000	-59.4	24.9	-34.5	-13.0	-21.5	Peak	Vertical
28065.000	-25.9	4.8	-21.1	-13.0	-8.1	Peak	Vertical
28505.000	-47.9	4.6	-43.3	-13.0	-30.3	Peak	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Substitution Factor (dB).

Note 2: Substitution Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) + Antenna Gain (dBi) - Pre_Amplifier Gain (dB)

Note 3: Test Distance “d” = 3m.

Test Site	WZ-AC1 & WZ-AC2	Test Engineer	Kin Xia & Tommy Tang
Test Date	2021/12/16 ~ 2021/12/22		
Test Mode	QPSK, 7500kbps, Ant 0+1	Test Channel	14500MHz
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 9kHz to 30MHz and 40GHz to 75GHz, there is not show in the report.		

Frequency (MHz)	Reading Level (dBm)	Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
7545.000	-58.2	20.4	-37.8	-13.0	-24.8	Peak	Horizontal
10877.000	-59.1	25.9	-33.2	-13.0	-20.2	Peak	Horizontal
28065.000	-33.7	4.5	-29.2	-13.0	-16.2	Peak	Horizontal
29000.000	-47.2	4.6	-42.6	-13.0	-29.6	Peak	Horizontal
6610.000	-58.4	18.4	-40.0	-13.0	-27.0	Peak	Vertical
11531.500	-59.4	25.1	-34.3	-13.0	-21.3	Peak	Vertical
28065.000	-25.5	4.8	-20.7	-13.0	-7.7	Peak	Vertical
29000.000	-35.2	4.6	-30.6	-13.0	-17.6	Peak	Vertical

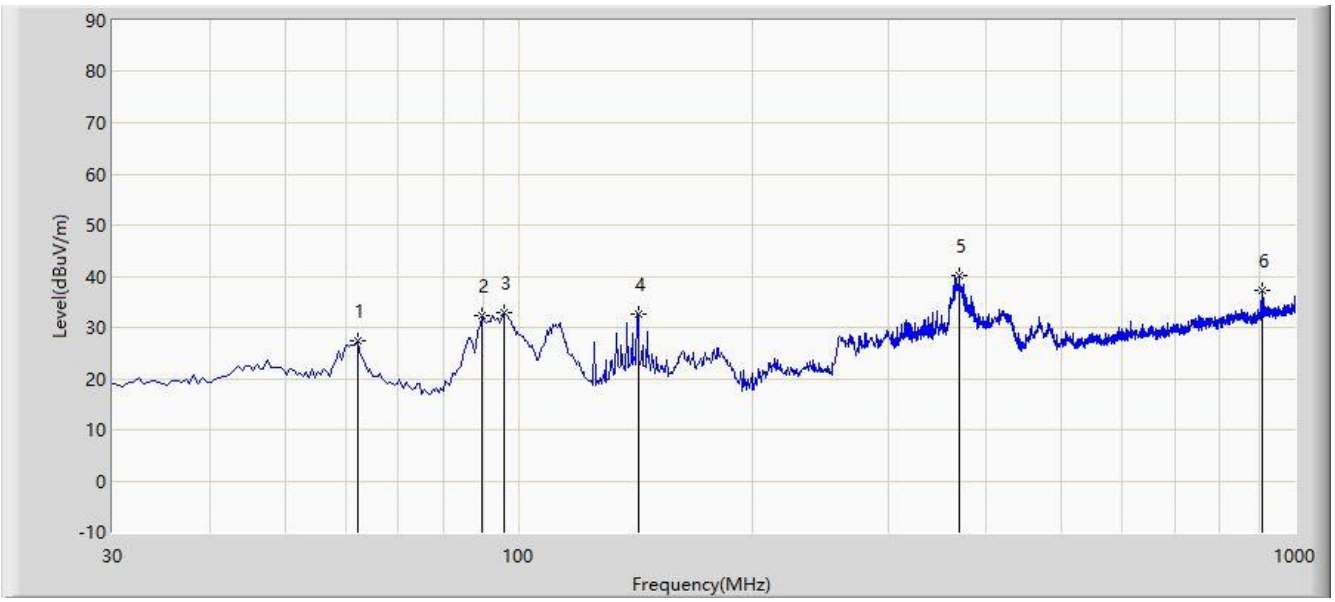
Note 1: Measure Level (dBm) = Reading Level (dBm) + Substitution Factor (dB).

Note 2: Substitution Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) + Antenna Gain (dBi) - Pre_Amplifier Gain (dB)

Note 3: Test Distance “d” = 3m.

Radiated Spurious Emission For below 1GHz:

Site: WZ-AC2	Time: 2021/12/22 - 11:38
Limit: FCC Part 25_RE	Engineer: Tommy Tang
Probe: WZ-AC2_VULB9162_0.03-7GHz	Polarity: Horizontal
EUT: mobile satellite communication terminal	Power: AC 120V/60Hz
Test Mode: Transmit by 8PSK 128kbps at Channel 13750MHz	

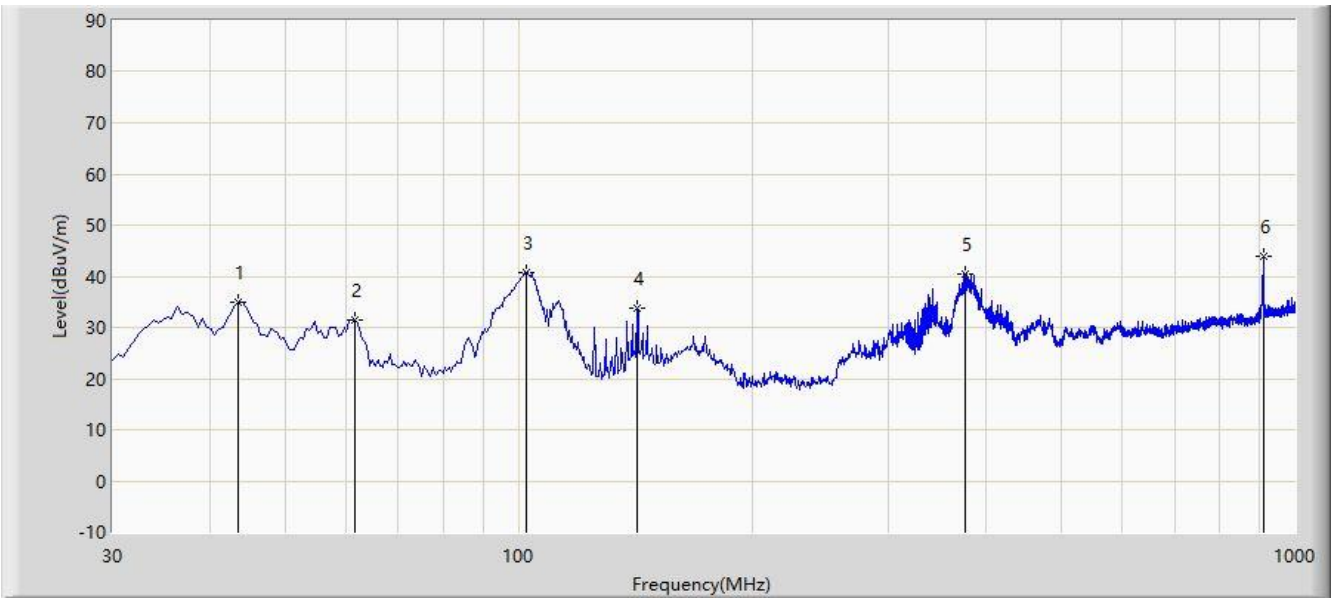


No	Flag	Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Type
1			62.01	10.076	17.442	27.518	-67.682	-13.000	-54.682	PK
2			89.655	20.386	12.006	32.392	-62.808	-13.000	-49.808	PK
3			95.96	20.411	12.446	32.857	-62.343	-13.000	-49.343	PK
4			142.52	14.935	17.635	32.570	-62.630	-13.000	-49.630	PK
5			369.5	20.181	20.019	40.200	-55.000	-13.000	-42.000	PK
6		*	906.88	7.485	29.692	37.177	-58.023	-13.000	-45.023	PK

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

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

Site: WZ-AC2	Time: 2021/12/22 - 11:40
Limit: FCC Part 25_RE	Engineer: Tommy Tang
Probe: WZ-AC2_VULB9162_0.03-7GHz	Polarity: Vertical
EUT: mobile satellite communication terminal	Power: AC 120V/60Hz
Test Mode: Transmit by 8PSK 128kbps at Channel 13750MHz	



No	Flag	Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Type
1			43.58	16.503	18.505	35.008	-60.192	-13.000	-47.192	PK
2			61.525	13.957	17.502	31.459	-63.741	-13.000	-50.741	PK
3			102.265	27.347	13.36	40.707	-54.493	-13.000	-41.493	PK
4			142.035	16.035	17.606	33.641	-61.559	-13.000	-48.559	PK
5			375.805	20.309	20.205	40.514	-54.686	-13.000	-41.686	PK
6		*	912.7	14.181	29.78	43.961	-51.239	-13.000	-38.239	PK

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

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

Appendix B – Test Setup Photograph

Refer to “2107RSU044-UT” file.

Appendix C – EUT Photograph

Refer to “2107RSU044-UE” file.

The End