



FCC TEST REPORT

Report No.: STS2212065W01

Issued for

Guangdong Samzuk Technology Development Co,Ltd

High-Tech Zone Xinggong Avenue East Heyuan, China

Product Name:	Walkie talkie
Brand:	SAMCOM
Model Number:	FPCN30AA
Series Model(s):	FPCN30AB,FPCN30AC,FPCN30AD, FPCN30AE,FPCN30AF,FPCN30AG, FPCN30AH,FPCN30AI.
FCC ID:	2AIOQ-FPCN30AA
Test Standard:	FCC Part 90 Rules

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TEST RESULT CERTIFICATION

Applicant's Name: Guangdong Samzuk Technology Development Co,Ltd

Address: High-Tech Zone Xinggong Avenue East Heyuan, China

Manufacture's Name: Guangdong Samzuk Technology Development Co,Ltd

Address: High-Tech Zone Xinggong Avenue East Heyuan, China

Product Description

Product Name: Walkie talkie

Brand: **SAMCOM**

Model Number.....: FPCN30AA

Series Model(s).....: FPCN30AB,FPCN30AC,FPCN30AD,FPCN30AE,FPCN30AF,
FPCN30AG,FPCN30AH,FPCN30AI.

Test Standards: FCC Part 90 Rules

Test Procedure: C63.26-2015

This device described above has been tested by STS, the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test.....:

Date of receipt of test item: 14 Dec. 2022

Date of performance of tests..: 14 Dec. 2022 ~ 05 Jan. 2023

Date of Issue: 05 Jan. 2023

Test Result: Pass

Testing Engineer :

(Chris chen)

Technical Manager :

(Sean she)

Authorized Signatory :

(Bovey Yang)





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**Revision History**

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	05 Jan. 2023	STS2212065W01	ALL	Initial Issue





1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

Emission			
Standard	Item	Result	Remarks
FCC Part 90.210	Transmitter Radiated Spurious Emssion	PASS	

NOTE:

(1) "N/A" denotes test is not applicable in this Test Report.

1.1 TEST FACILITY

SHENZHEN STS TEST SERVICES CO., LTD

Add. : A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ, Fuyong Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration Number: 625569

IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	RF output power, conducted	$\pm 1.197\text{dB}$
2	Unwanted Emissions, conducted	$\pm 2.896\text{dB}$
3	All emissions, radiated 9K-30MHz	$\pm 3.84\text{dB}$
4	All emissions, radiated 30M-1GHz	$\pm 3.94\text{dB}$
5	All emissions, radiated 1G-6GHz	$\pm 4.59\text{dB}$
6	All emissions, radiated >6G	$\pm 5.22\text{dB}$
7	Conducted Emission (9KHz-150KHz)	$\pm 2.14\text{dB}$



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Product Name:	Walkie talkie
Brand:	SAMCOM
Model Number:	FPCN30AA
Series Model(s):	FPCN30AB,FPCN30AC,FPCN30AD,FPCN30AE, FPCN30AF,FPCN30AG,FPCN30AH,FPCN30AI.
Model Difference description:	Only different model names, colors and appearance
Operation Frequency Range	Frequency Range: 406.1MHz ~ 470MHz
Channel Separation:	12.5KHz and 25.0KHz
Modulation Type:	FM
Antenna Type:	Whip Antenna
Antennna Gain:	1 dBi
Adapter:	Input: AC 100V-240V, 50~60Hz, 200mA Output: DC 12.00V, 500mA
Battery :	Rated Voltage: 7.4V Charge Limit: 8.4V Capacity :1500mAh
Temperature Range:	-20℃-60℃
Test frequency list:	See Note 4
Software version number:	V 1.4
Hardware version number:	Ver A3

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
2. The product has the same digital working characters when operating in both two digitized voice/data mode. So only one set of test results for digital modulation modes are provided in this test report.
3. The antenna information refer the manufacturer provide report, applicable only to the tested sample identified in the report. Due to the incorrect antenna information, a series of problems such as the accuracy of the test results will be borne by the customer.



4. Test frequency list

Channel Separation	Test Channel	Test Frequency (MHz)
12.5kHz	CH1	406.1125
	CH2	453.0125
	CH3	469.9875

Channel Separation	Test Channel	Test Frequency (MHz)
25kHz	CH1	406.125
	CH2	453.025
	CH3	469.975

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, please see the above listed frequency for testing.



2.2 EUT OPERATION MODE

The EUT has been tested under typical operating condition and The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

2.3 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Final Test Mode	Power level	Channel Separation	Frenquency
Model 1	High rated power	12.5kHz	406.1125
			453.0125
			469.9875
Model 2	Low rated power		406.1125
			453.0125
			469.9875
Model 3	High rated power	25kHz	406.125
			453.025
			469.975
Model 4	Low rated power		406.125
			453.025
			469.975

Model 1:

The equipment is set with FM modulation and 12.5KHz bandwidth at minimum rated power for transmitter,powered by DC 7.4V.

Model 2:

The equipment is set with FM modulation and 12.5KHz bandwidth at maximum rated power for transmitter,powered by DC 7.4V.

Model 3:

The equipment is set with FM modulation and 25.0KHz bandwidth at minimum rated power for transmitter,powered by DC 7.4V.

Model 4:

The equipment is set with FM modulation and 25.0KHz bandwidth at maximum rated power for transmitter,powered by DC 7.4V.

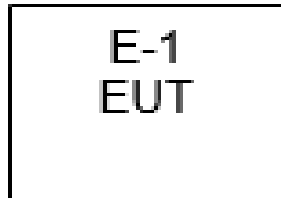
Note:

(1) Due to the different configuration and test, in this list only some worse mode. The worst test data of the worse modeis reported by this report.



2.4 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Spurious Emission Test



2.5 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Necessary accessories

Item	Equipment	Mfr/Brand	Model/Type No.	Length	Note
N/A	N/A	N/A	N/A	N/A	N/A

Support units

Item	Equipment	Mfr/Brand	Model/Type No.	Length	Note
N/A	N/A	N/A	N/A	N/A	N/A

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.



2.7 TEST EQUIPMENT

RF Radiation Test Equipment					
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
Temperature & Humidity	SW-108	SuWei	N/A	2022.03.02	2023.03.01
Wireless Communications Test Set	R&S	CMW 500	117239	2022.03.01	2023.02.28
Pre-Amplifier(0.1M-3G Hz)	EM	EM330	060665	2022.07.04	2023.07.03
Pre-Amplifier (1G-18GHz)	SKET	LNPA-01018G-45	SK2018080901	2022.09.29	2023.09.28
Positioning Controller	MF	MF-7802	MF-780208587	N/A	N/A
Signal Analyzer	R&S	FSV 40-N	101823	2022.09.29	2023.09.28
Switch Control Box	N/A	N/A	N/A	N/A	N/A
Filter Box	BALUN Technology	SU319E	BL-SZ1530051	N/A	N/A
Video Controller	SKET	FCS C-3	N/A	N/A	N/A
Bilog Antenna	TESEQ	CBL6111D	34678	2022.09.30	2024.09.29
Horn Antenna	SCHWARZBECK	BBHA 9120D	02014	2021.10.11	2023.10.10
Antenna Mast	MF	MFA-440H	N/A	N/A	N/A
Turn Table	MF	N/A	N/A	N/A	N/A
AC Power Source	APC	KDF-11010G	F214050035	N/A	N/A
DC Power Supply	Zhaoxin	RXN 605D	20R605D11010081	N/A	N/A
Test SW	EMC Test Software	15.2.0.339			



3. TRANSMITTER RADIATED SPURIOUS EMISSION

3.1 PROVISIONS APPLICABLE

For transmitters designed to operate with a 12.5 kHz channel bandwidth, any emission must be attenuated below the power (P) of the highest emission contained within the authorized bandwidth as follows:

- (1) On any frequency from the center of the authorized bandwidth f_0 to 5.625 kHz removed from f_0 : Zero dB.
- (2) On any frequency removed from the center of the authorized bandwidth by a displacement frequency (f_d in kHz) of more than 5.625 kHz but no more than 12.5 kHz: At least $7.27(f_d - 2.88 \text{ kHz})$ dB.
- (3) On any frequency removed from the center of the authorized bandwidth by a displacement frequency (f_d in kHz) of more than 12.5 kHz: At least $50 + 10 \log(P)$ dB or 70 dB, whichever is the lesser attenuation.
- (4) The reference level for showing compliance with the emission mask shall be established using a resolution bandwidth sufficiently wide (usually two or three times the channel bandwidth) to capture the true peak emission of the equipment under test. In order to show compliance with the emission mask up to and including 50 kHz removed from the edge of the authorized bandwidth, adjust the resolution bandwidth to 100 Hz with the measuring instrument in a peak hold mode. A sufficient number of sweeps must be measured to insure that the emission profile is developed. If video filtering is used, its bandwidth must not be less than the instrument resolution bandwidth. For emissions beyond 50 kHz from the edge of the authorized bandwidth, see paragraph (o) of this section. If it can be shown that use of the above instrumentation settings do not accurately represent the true interference potential of the equipment under test, an alternate procedure may be used provided prior Commission approval is obtained.

For transmitters that are equipped with an audio low-pass filter, the power of any emission must be attenuated below the unmodulated carrier power (P) as follows:

- (1) On any frequency removed from the assigned frequency by more than 50 percent, but not more than 100 percent of the authorized bandwidth: At least 25 dB.
- (2) On any frequency removed from the assigned frequency by more than 100 percent, but not more than 250 percent of the authorized bandwidth: At least 35 dB.
- (3) On any frequency removed from the assigned frequency by more than 250 percent of the authorized bandwidth: At least $43 + 10 \log(P)$ dB.

3.2 TEST PROCEDURE

- a. EUT was placed on a 1.50 meter high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT. for emission measurements. The height of receiving antenna is 1.50 m. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all transmit frequencies in six channels were measured with peak detector.
- b. A log-periodic antenna or double-ridged waveguide horn antenna shall be substituted in place of the EUT. The log-periodic antenna will be driven by a signal generator and the level will be adjusted till the same power value on the spectrum analyzer or receiver. The level of the spurious emissions can be calculated through the level of the signal generator, cable loss, the gain of the substitution antenna and the reading of the spectrum analyzer or receiver.
- c. The EUT is then put into continuously transmitting mode at its maximum power level during the test. Set Test Receiver or Spectrum RBW=1MHz, VBW=3MHz for above 1GHz and RBW=100KHz, VBW=300KHz for 30MHz to 1GHz, And the maximum value of the receiver should be recorded as (P_r).
- d. The EUT shall be replaced by a substitution antenna. In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (P_{Mea}) is applied to the input of the substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (P_r). The power of signal source (P_{Mea}) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.

- e. A amplifier should be connected to the Signal Source output port. And the cable should be connect between the Amplifier and the Substitution Antenna. The cable loss (P_{cl}), the Substitution Antenna Gain (G_a) and the Amplifier Gain (P_{Ag}) should be recorded after test.

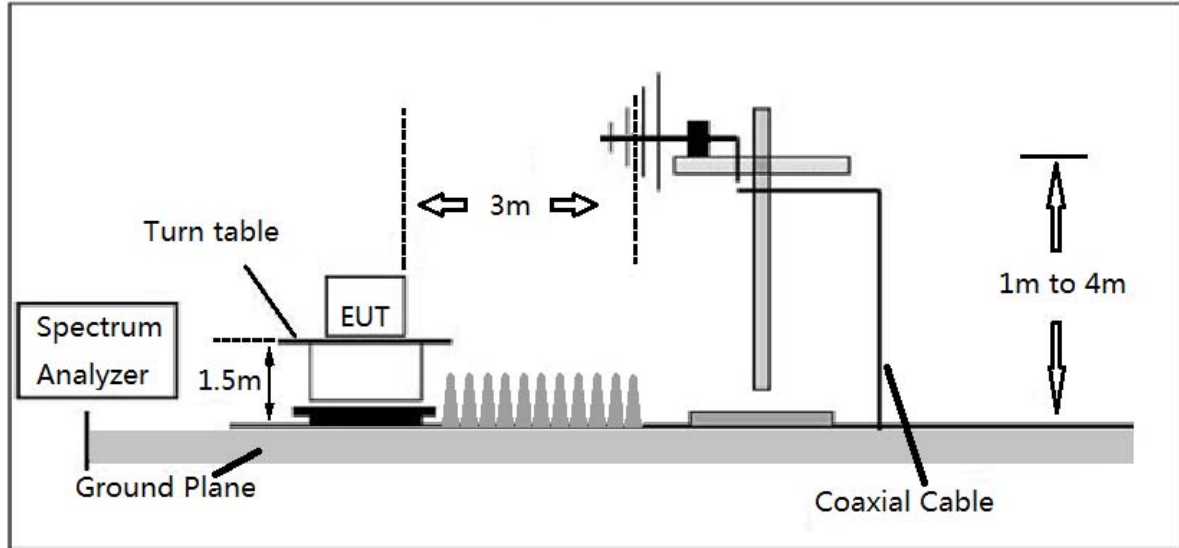
The measurement results are obtained as described below:

Amplifier for substitution test; The measurement results are amend as described below:

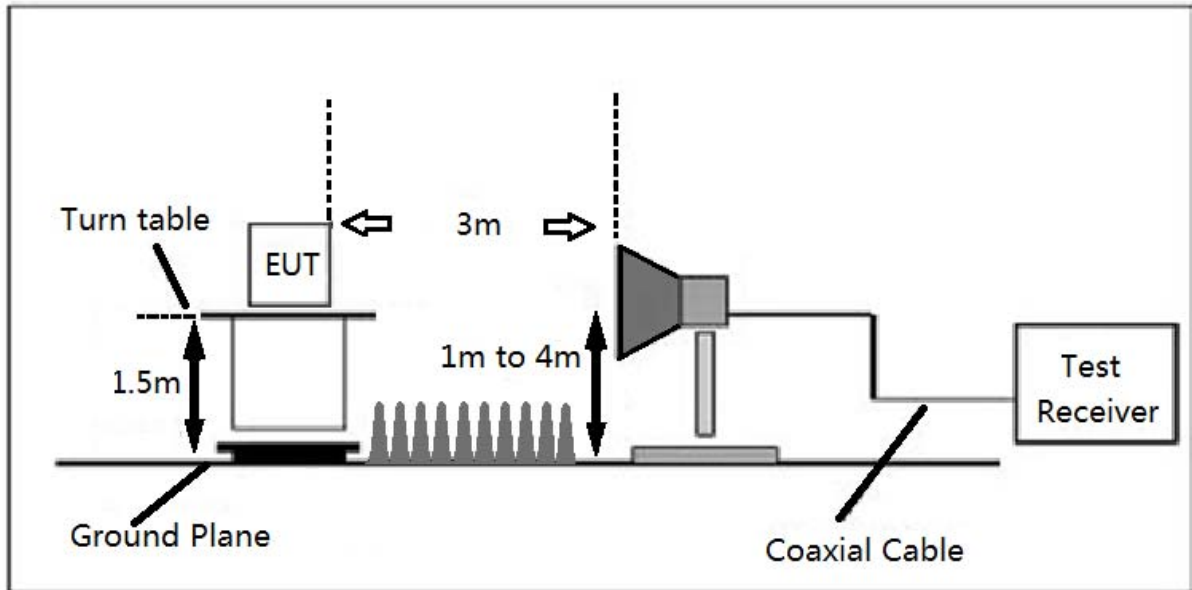
$$\text{Power(EIRP)} = P_{\text{Mea}} - P_{cl} + G_a$$

3.3 TEST CONFIGURATION

Radiated Emission Test Set-Up, Frequency Below 1000MHz.



Radiated Emission Test Set-Up Frequency Above 1GHz.

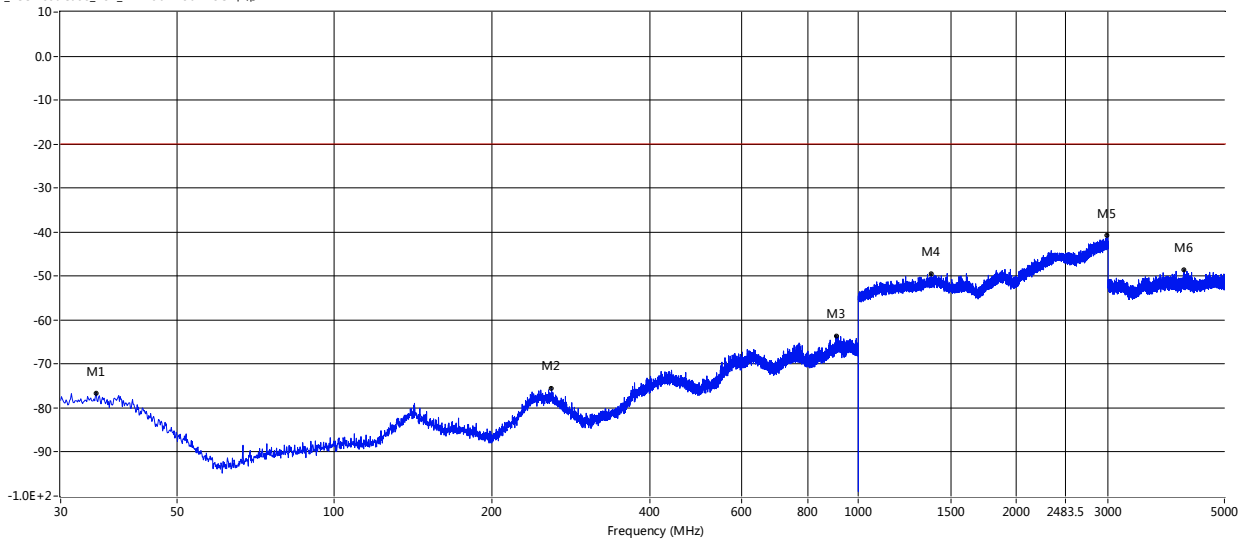




3.4 TEST RESULT

Mode 1
CH 1
Horizontal

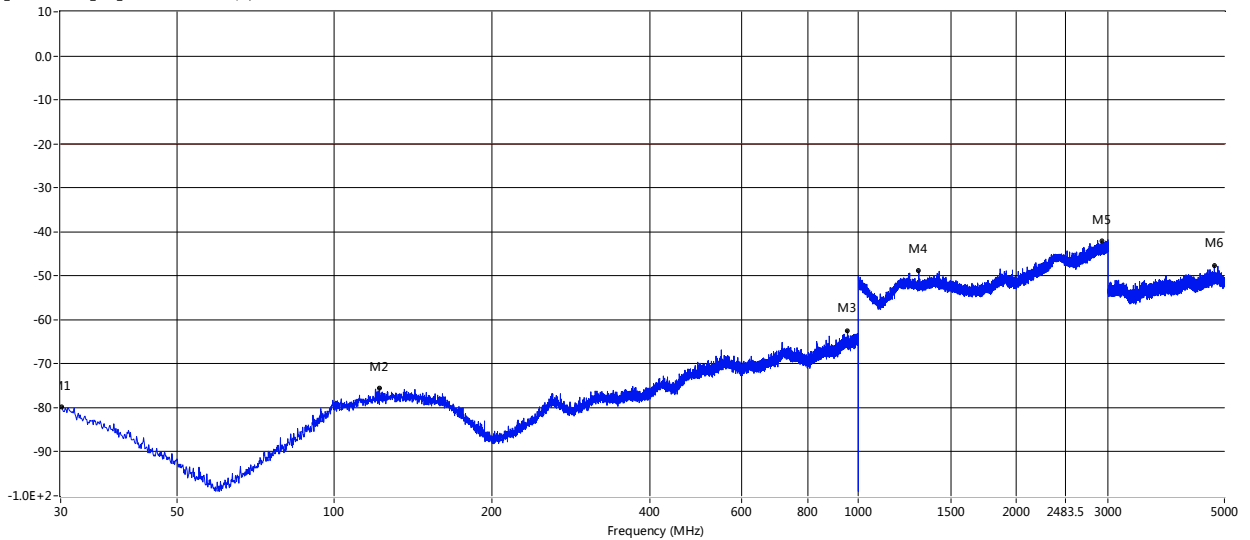
RSE_FCC Test Case_RSE_PART90 H 30M-5G-窄带



Frequency (MHz)	Result (dBm)	Factor (dB)	PK Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
35.093	-76.66	-1.88	-20.0	-56.66	309.50	Horizontal	Vertical	Pass
259.769	-75.61	-1.52	-20.0	-55.61	360.30	Horizontal	Vertical	Pass
907.365	-63.52	9.11	-20.0	-43.52	14.30	Horizontal	Vertical	Pass
1379.750	-49.50	13.89	-20.0	-29.50	115.30	Horizontal	Vertical	Pass
2986.500	-40.80	21.18	-20.0	-20.80	157.60	Horizontal	Vertical	Pass
4188.000	-48.54	4.32	-20.0	-28.54	55.70	Horizontal	Vertical	Pass

Vertical

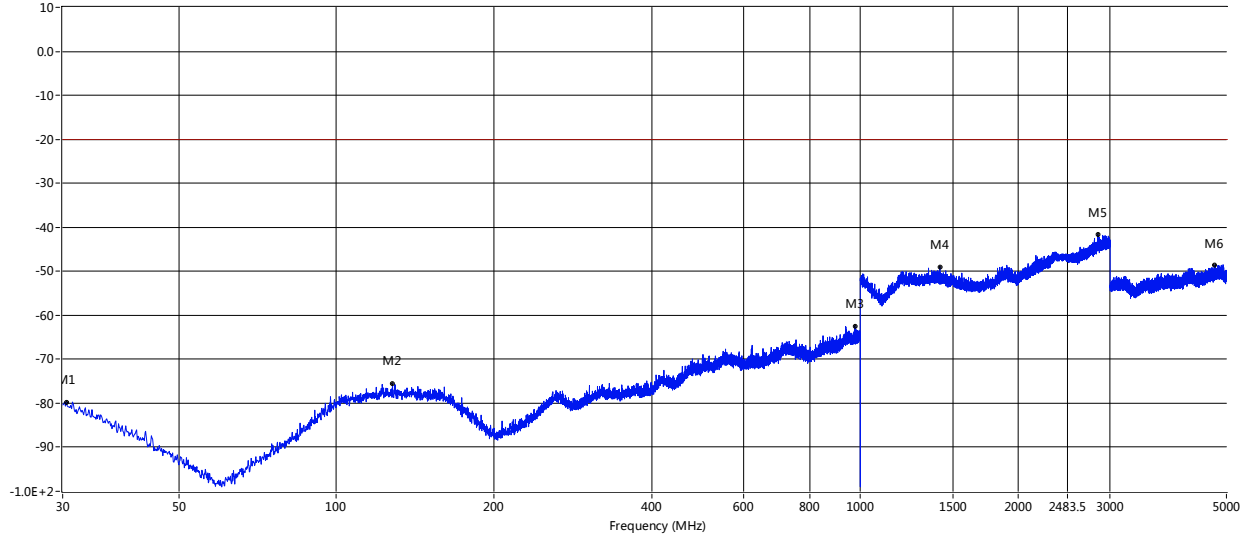
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Frequency (MHz)	Result (dBm)	Factor (dB)	PK Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
30.121	-79.76	-3.75	-20.0	-59.76	311.00	Vertical	Vertical	Pass
121.908	-75.61	-1.83	-20.0	-55.61	99.10	Vertical	Vertical	Pass
954.289	-62.51	10.06	-20.0	-42.51	51.00	Vertical	Vertical	Pass
1304.500	-48.84	13.01	-20.0	-28.84	259.50	Vertical	Vertical	Pass
2913.750	-42.15	20.27	-20.0	-22.15	11.80	Vertical	Vertical	Pass
4783.750	-47.69	5.41	-20.0	-27.69	78.00	Vertical	Vertical	Pass

CH 2
Horizontal

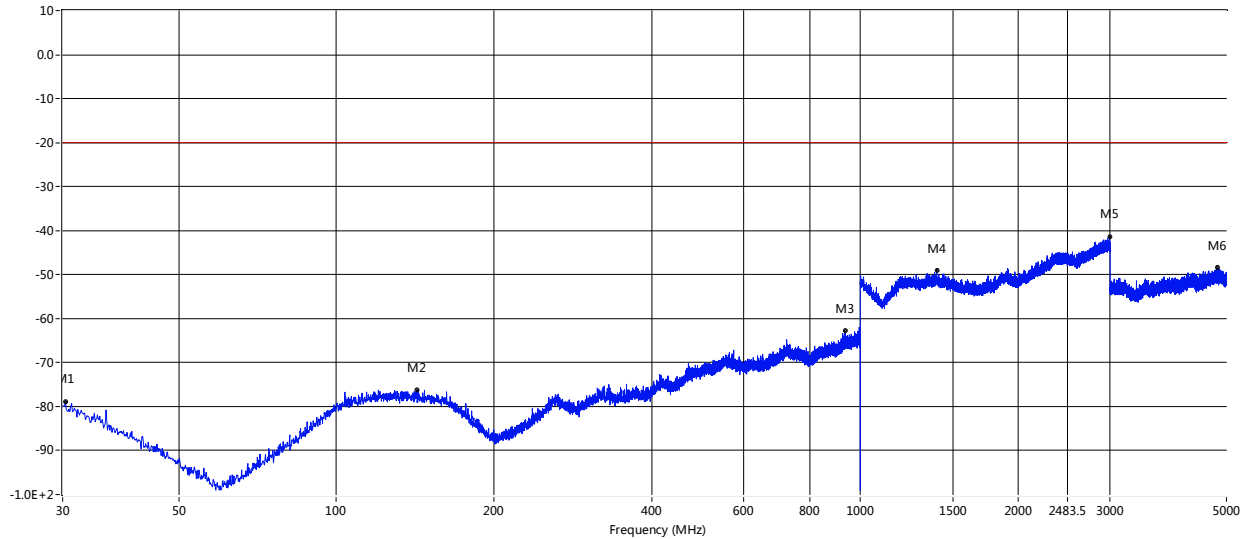
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Frequency (MHz)	Result (dBm)	Factor (dB)	PK Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
30.485	-79.83	-3.99	-20.0	-59.83	23.90	Horizontal	Vertical	Pass
127.970	-75.44	-1.60	-20.0	-55.44	146.20	Horizontal	Vertical	Pass
976.599	-62.51	10.34	-20.0	-42.51	255.50	Horizontal	Vertical	Pass
1418.500	-48.94	13.68	-20.0	-28.94	43.30	Horizontal	Vertical	Pass
2842.250	-41.61	19.94	-20.0	-21.61	224.00	Horizontal	Vertical	Pass
4744.500	-48.66	5.28	-20.0	-28.66	23.30	Horizontal	Vertical	Pass

Vertical

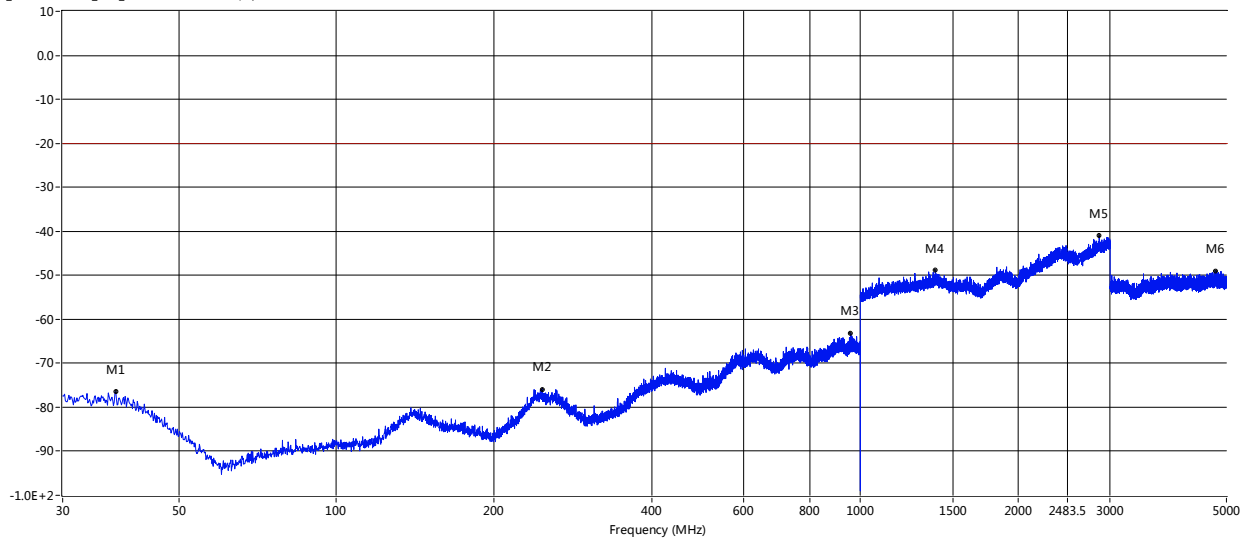
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Frequency (MHz)	Result (dBm)	Factor (dB)	PK Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
30.242	-79.90	-3.83	-20.0	-59.90	133.80	Vertical	Vertical	Pass
142.278	-76.23	-1.24	-20.0	-56.23	300.90	Vertical	Vertical	Pass
935.616	-62.83	9.90	-20.0	-42.83	279.90	Vertical	Vertical	Pass
1399.750	-49.01	13.83	-20.0	-29.01	57.20	Vertical	Vertical	Pass
2992.250	-41.33	20.37	-20.0	-21.33	208.20	Vertical	Vertical	Pass
4799.000	-48.48	5.47	-20.0	-28.48	94.90	Vertical	Vertical	Pass

CH 3
Horizontal

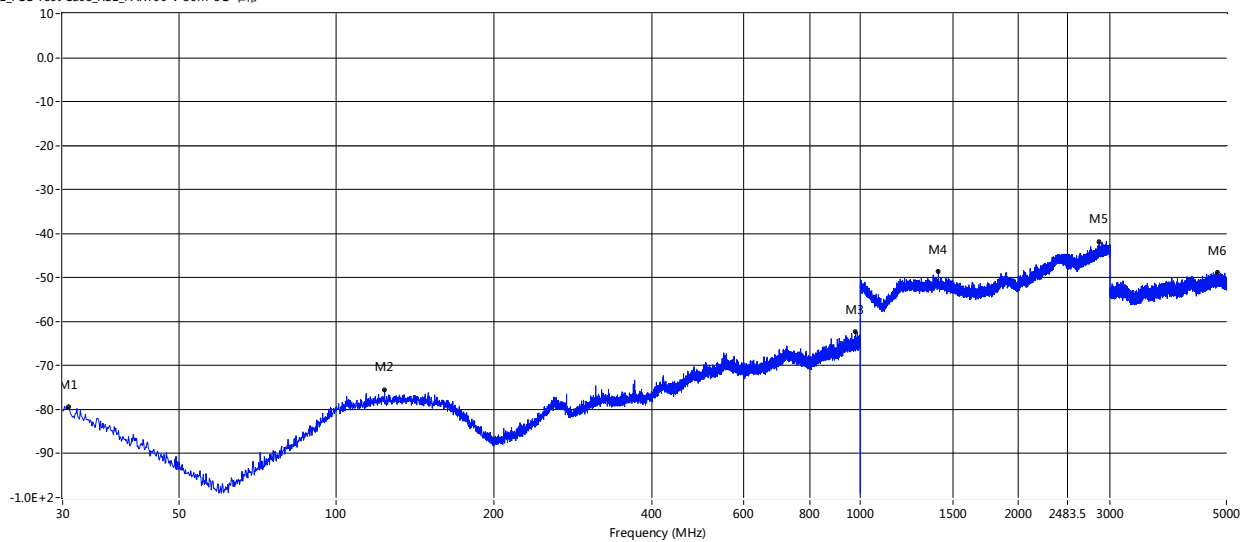
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Frequency (MHz)	Result (dBm)	Factor (dB)	PK Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
37.881	-76.46	-1.86	-20.0	-56.46	260.70	Horizontal	Vertical	Pass
247.280	-75.92	-1.05	-20.0	-55.92	269.60	Horizontal	Vertical	Pass
959.139	-63.27	9.58	-20.0	-43.27	206.60	Horizontal	Vertical	Pass
1390.750	-48.84	14.04	-20.0	-28.84	143.10	Horizontal	Vertical	Pass
2859.750	-40.93	20.69	-20.0	-20.93	28.80	Horizontal	Vertical	Pass
4762.750	-48.96	4.71	-20.0	-28.96	268.80	Horizontal	Vertical	Pass

Vertical

RSE_FCC Test Case_RSE_PART90 V 30M-5G-窄带

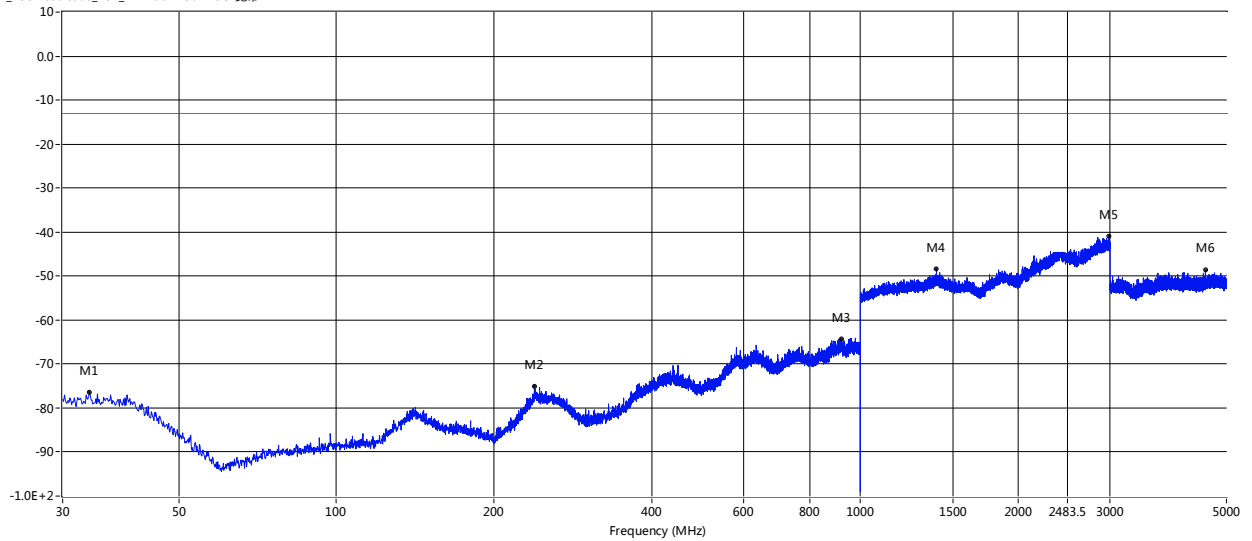


Frequency (MHz)	Result (dBm)	Factor (dB)	PK Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
30.849	-79.40	-4.22	-20.0	-59.40	160.40	Vertical	Vertical	Pass
123.484	-75.46	-1.77	-20.0	-55.46	127.30	Vertical	Vertical	Pass
979.751	-62.30	10.41	-20.0	-42.30	5.60	Vertical	Vertical	Pass
1409.750	-48.60	13.75	-20.0	-28.60	264.20	Vertical	Vertical	Pass
2859.500	-41.83	20.07	-20.0	-21.83	343.20	Vertical	Vertical	Pass
4809.500	-48.82	5.49	-20.0	-28.82	155.50	Vertical	Vertical	Pass



Mode 3
CH 1
Horizontal

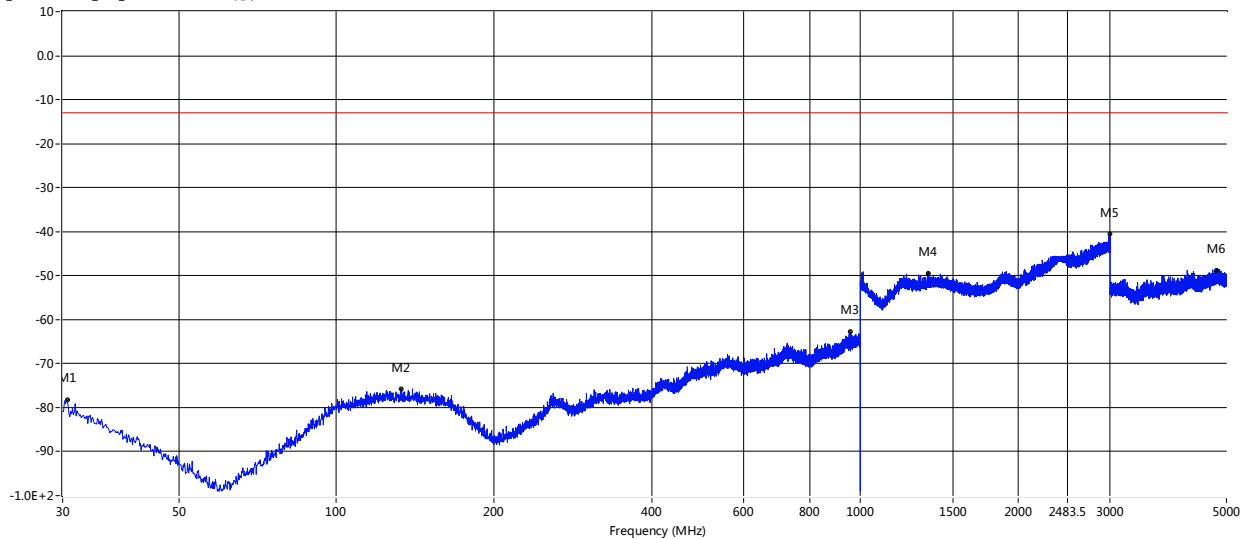
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Frequency (MHz)	Result (dBm)	Factor (dB)	PK Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
33.759	-76.40	-1.89	-13.0	-63.40	120.30	Horizontal	Vertical	Pass
238.914	-75.04	-1.12	-13.0	-62.04	22.70	Horizontal	Vertical	Pass
921.066	-64.31	9.52	-13.0	-51.31	147.20	Horizontal	Vertical	Pass
1398.250	-48.33	14.14	-13.0	-35.33	193.40	Horizontal	Vertical	Pass
2986.750	-40.88	21.18	-13.0	-27.88	133.20	Horizontal	Vertical	Pass
4559.750	-48.65	4.44	-13.0	-35.65	265.10	Horizontal	Vertical	Pass

Vertical

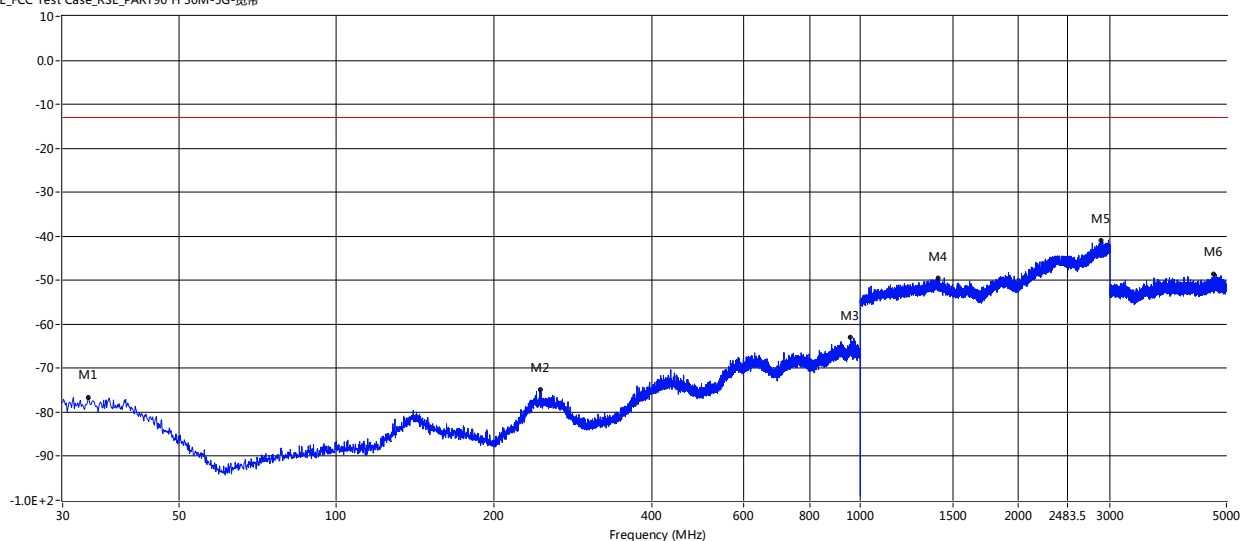
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Frequency (MHz)	Result (dBm)	Factor (dB)	PK Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
30.606	-78.27	-4.06	-13.0	-65.27	161.40	Vertical	Vertical	Pass
133.184	-75.81	-1.40	-13.0	-62.81	303.70	Vertical	Vertical	Pass
958.654	-62.84	10.03	-13.0	-49.84	191.00	Vertical	Vertical	Pass
1350.750	-49.52	13.41	-13.0	-36.52	181.40	Vertical	Vertical	Pass
2999.250	-40.57	20.38	-13.0	-27.57	48.60	Vertical	Vertical	Pass
4785.000	-48.92	5.42	-13.0	-35.92	155.70	Vertical	Vertical	Pass

CH 2
Horizontal

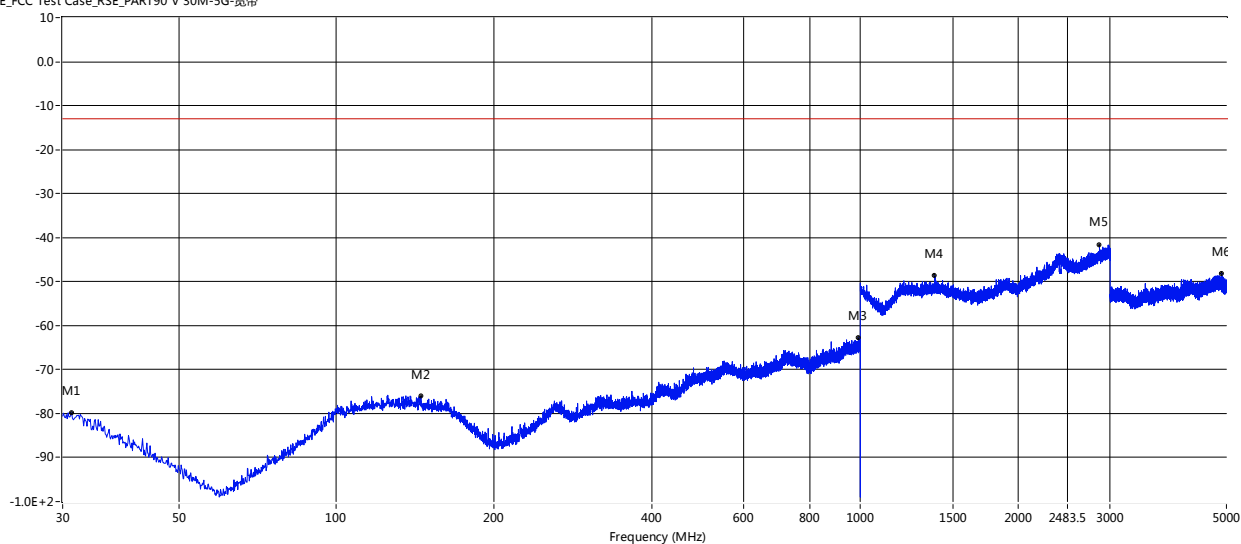
RSE_FCC Test Case_RSE_PART90 H 30M-5G-宽带



Frequency (MHz)	Result (dBm)	Factor (dB)	PK Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
33.638	-76.58	-1.89	-13.0	-63.58	358.30	Horizontal	Vertical	Pass
244.612	-74.79	-0.95	-13.0	-61.79	121.50	Horizontal	Vertical	Pass
958.411	-63.02	9.52	-13.0	-50.02	277.20	Horizontal	Vertical	Pass
1409.750	-49.55	14.02	-13.0	-36.55	260.10	Horizontal	Vertical	Pass
2881.500	-40.96	20.67	-13.0	-27.96	94.00	Horizontal	Vertical	Pass
4735.250	-48.69	4.67	-13.0	-35.69	193.50	Horizontal	Vertical	Pass

Vertical

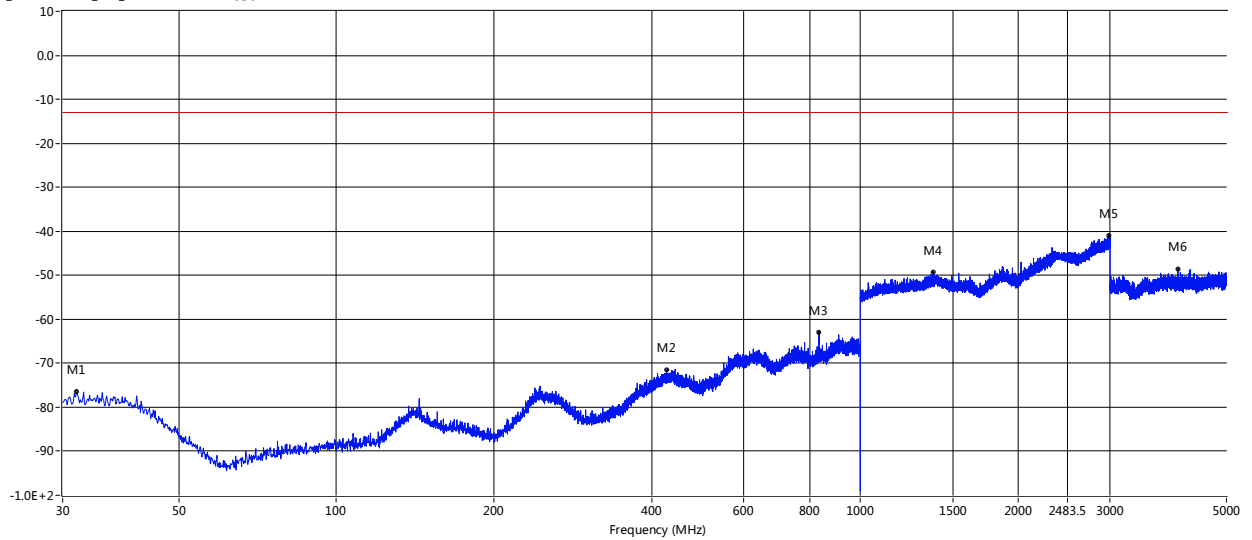
RSE_FCC Test Case_RSE_PART90 V 30M-5G-宽带



Frequency (MHz)	Result (dBm)	Factor (dB)	PK Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
31.091	-80.42	-4.38	-13.0	-67.42	1.10	Vertical	Vertical	Pass
144.945	-76.04	-1.36	-13.0	-63.04	287.30	Vertical	Vertical	Pass
991.755	-62.63	10.55	-13.0	-49.63	302.10	Vertical	Vertical	Pass
1386.500	-48.69	13.72	-13.0	-35.69	157.30	Vertical	Vertical	Pass
2862.500	-41.56	20.08	-13.0	-28.56	299.70	Vertical	Vertical	Pass
4901.000	-48.15	5.69	-13.0	-35.15	276.40	Vertical	Vertical	Pass

CH 3
Horizontal

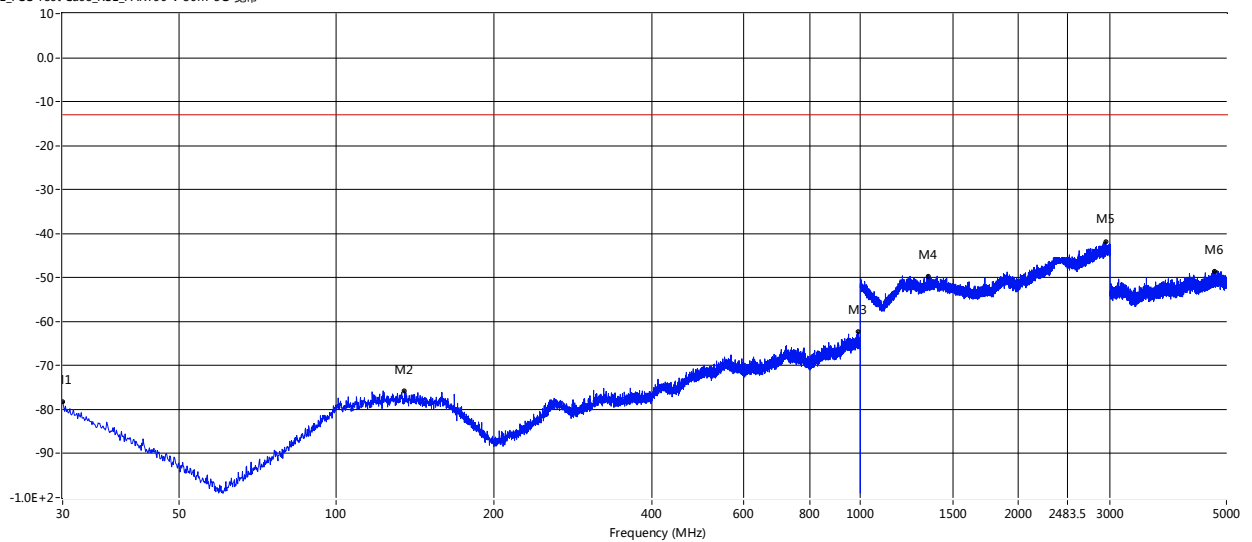
RSE_FCC Test Case_RSE_PART90 H 30M-5G-宽带



Frequency (MHz)	Result (dBm)	Factor (dB)	PK Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
31.940	-76.50	-1.90	-13.0	-63.50	182.00	Horizontal	Vertical	Pass
426.487	-71.51	3.10	-13.0	-58.51	212.20	Horizontal	Vertical	Pass
833.887	-62.92	7.01	-13.0	-49.92	80.40	Horizontal	Vertical	Pass
1378.000	-49.29	13.87	-13.0	-36.29	71.70	Horizontal	Vertical	Pass
2984.500	-40.94	21.17	-13.0	-27.94	211.30	Horizontal	Vertical	Pass
4042.000	-48.51	4.04	-13.0	-35.51	137.30	Horizontal	Vertical	Pass

Vertical

RSE_FCC Test Case_RSE_PART90 V 30M-5G-宽带



Frequency (MHz)	Result (dBm)	Factor (dB)	PK Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
30.000	-78.18	-3.68	-13.0	-65.18	249.00	Vertical	Vertical	Pass
134.881	-75.75	-1.33	-13.0	-62.75	9.30	Vertical	Vertical	Pass
990.179	-62.36	10.53	-13.0	-49.36	156.00	Vertical	Vertical	Pass
1347.500	-49.72	13.38	-13.0	-36.72	330.30	Vertical	Vertical	Pass
2941.500	-41.76	20.33	-13.0	-28.76	260.50	Vertical	Vertical	Pass
4744.250	-48.56	5.27	-13.0	-35.56	310.80	Vertical	Vertical	Pass



4. PHOTOS OF TEST SETUP

Note: See test photos in setup photo document for the actual connections between Product and support equipment.

*****END OF THE REPORT*****

