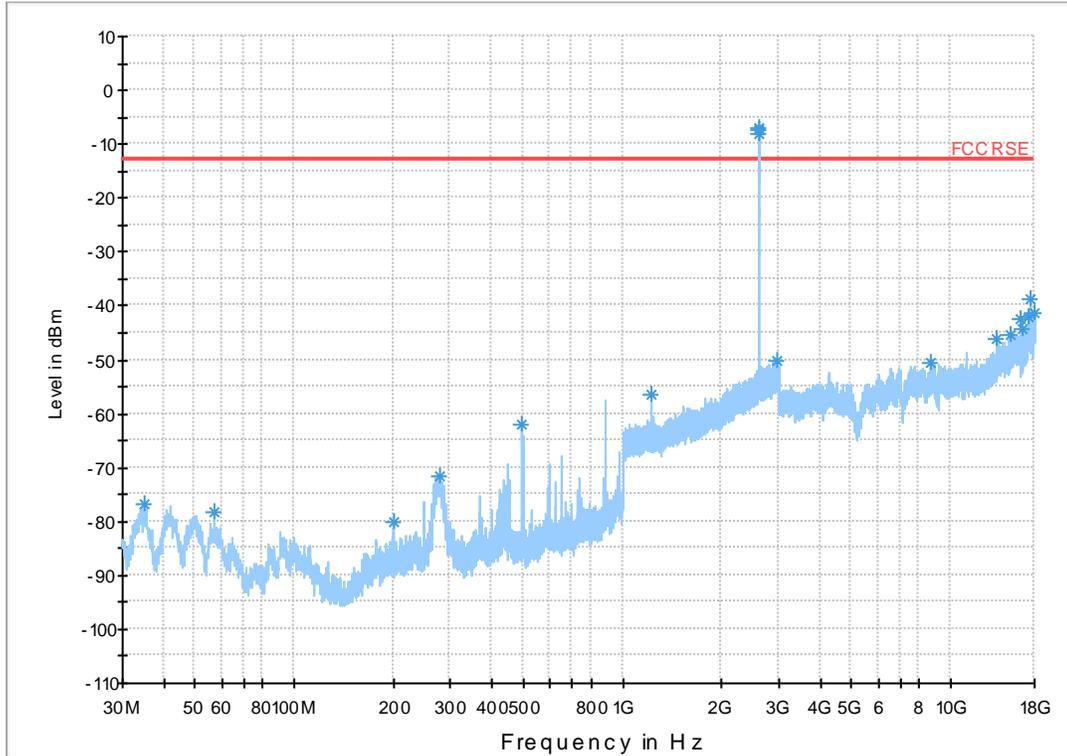


ZTETS EMCXL Lab Test Report

FCC RSE HP 4G 30MHz-18G -H

FCC RSE HP 4G 30MHz-18G -H



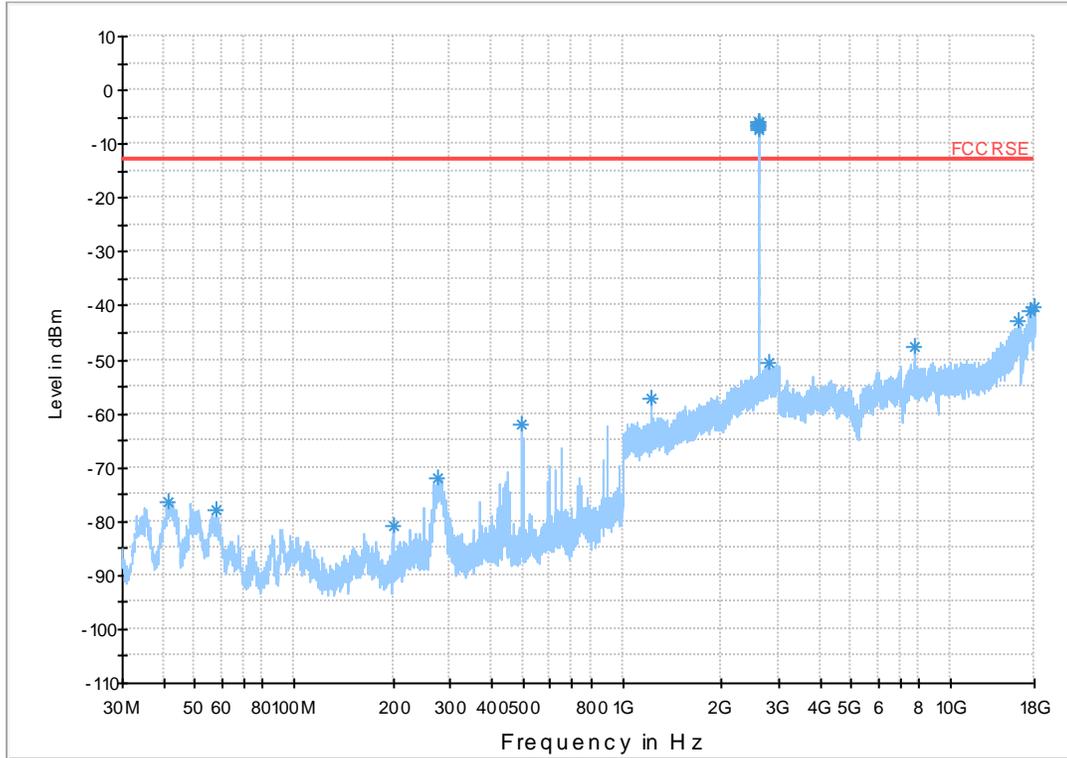
Data Reduction Result 1 [1]

Frequency (MHz)	MaxPeak-MaxHof Id (dBm)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Comment
34.753000	-76.8	150.0	H	0.0	-108.7	
57.111500	-78.3	150.0	H	88.0	-107.2	
199.992500	-80.3	150.0	H	334.0	-107.9	
277.059000	-71.5	150.0	H	88.0	-107.3	
491.526000	-62.1	150.0	H	71.0	-105.5	
1228.800000	-56.4	150.0	H	46.0	-95.0	
2599.466667	-8.0	150.0	H	196.0	-85.4	
2610.600000	-7.1	150.0	H	212.0	-85.4	
2612.933333	-7.4	150.0	H	196.0	-85.4	
2962.400000	-50.0	150.0	H	0.0	-83.7	
8654.500000	-50.7	150.0	H	199.0	-95.8	
13843.500000	-46.0	150.0	H	354.0	-88.1	
15117.500000	-45.4	150.0	H	331.0	-86.3	
16407.000000	-42.5	150.0	H	347.0	-84.6	
16467.000000	-44.4	150.0	H	101.0	-85.2	
17242.500000	-42.2	150.0	H	126.0	-82.5	
17544.500000	-38.7	150.0	H	10.0	-78.4	
...

ZTETS EMCXL Lab Test Report

FCC RSE HP 4G 30MHz-18G -V

FCC RSE HP 4G 30MHz-18G -V



Data Reduction Result 1 [1]

Frequency (MHz)	MaxPeak-MaxHolid (dBm)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Comment
41.446000	-76.2	150.0	V	223.0	-107.0	
57.839000	-77.9	150.0	V	208.0	-106.2	
199.992500	-80.8	150.0	V	332.0	-109.2	
275.701000	-72.0	150.0	V	79.0	-107.8	
491.526000	-61.9	150.0	V	70.0	-105.6	
1228.866667	-57.3	150.0	V	320.0	-95.0	
2598.600000	-5.7	150.0	V	210.0	-85.6	
2599.666667	-5.7	150.0	V	210.0	-85.6	
2599.800000	-6.8	150.0	V	195.0	-85.6	
2603.466667	-6.8	150.0	V	195.0	-85.6	
2606.066667	-7.2	150.0	V	195.0	-85.6	
2608.866667	-6.4	150.0	V	195.0	-85.6	
2609.400000	-6.5	150.0	V	195.0	-85.6	
2796.200000	-50.6	150.0	V	335.0	-84.0	
7806.000000	-47.4	150.0	V	93.0	-96.7	
16119.000000	-42.9	150.0	V	284.0	-85.3	
17606.000000	-40.9	150.0	V	117.0	-80.6	
...

8 FREQUENCY STABILITY

Applicable Standard: FCC § 2.1055

Requirements: FCC § 2.1055 (a)(d), The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
GZ-ESPEC	Temperature Chamber	ESL-10KA	10107294	2016.09.06	2017.09.06
Agilent	MXA Series Spectrum Analyzer	N9020A	MY54500713	2017.03.15	2018.03.15
Agilent	MXA Series Spectrum Analyzer	N9030A	MY53310566	2017.03.15	2018.03.15

***statement of traceability:** ZTE Corporation Reliability Testing Center attest that all calibration have been performed per the NVLAP requirements, traceable to NIST.

Test Procedure

Frequency Stability vs. Temperature: The equipment under test was connected to an external DC power supply and the RF output was connected to a Spectrum Analyzer via feed-through attenuators. The EUT was placed inside the temperature chamber. The DC leads and RF output cable exited the chamber through an opening made for the purpose.

After the temperature stabilized for approximately 150 minutes, the frequency output was recorded from the counter.

Frequency Stability vs. Voltage: An external variable DC power supply Source. The voltage was set to 115% of the nominal value and was then decreased until the transmitter light no longer illuminated; i.e., the end point. The output frequency was recorded for each voltage.

Environmental Conditions

Normal condition:	25° C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

Test Result: Pass**Test Mode:** Transmitting LTE**Test Data****Frequency Stability versus Temperature**

Frequency Stability vs. Temperature (Channel Bandwidth:20M+20M+20M Frequency :2585+2605+2625MHz) FL=2575.72MHz, FH=2634.28MHz							
Temperature (°C)	Power Supplied (V _{DC})	Port	Modulation	Frequency Measure Error (Hz)	FL+ Frequency Offset (MHz)	FH+ Frequency Offset (MHz)	Result
-40	-48	0	QPSK	-1.28	2575.72	2634.28	Pass
			16QAM	-1.18	2575.72	2634.28	Pass
			64QAM	-1.13	2575.72	2634.28	Pass
		1	QPSK	-2.00	2575.72	2634.28	Pass
			16QAM	-1.71	2575.72	2634.28	Pass
			64QAM	-1.53	2575.72	2634.28	Pass
		2	QPSK	-1.61	2575.72	2634.28	Pass
			16QAM	-2.24	2575.72	2634.28	Pass
			64QAM	-2.57	2575.72	2634.28	Pass
		3	QPSK	-0.79	2575.72	2634.28	Pass
			16QAM	-1.64	2575.72	2634.28	Pass
			64QAM	-0.99	2575.72	2634.28	Pass
		4	QPSK	-2.21	2575.72	2634.28	Pass
			16QAM	-1.85	2575.72	2634.28	Pass
			64QAM	-1.19	2575.72	2634.28	Pass
		5	QPSK	-2.12	2575.72	2634.28	Pass
			16QAM	-1.99	2575.72	2634.28	Pass
			64QAM	-1.81	2575.72	2634.28	Pass

**Frequency Stability vs. Temperature (Channel Bandwidth:20M+20M+20M
Frequency :2585+2605+2625MHz)
FL=2575.72MHz, FH=2634.28MHz**

Temperature (°C)	Power Supplied (V _{DC})	Port	Modulation	Frequency Measure Error (Hz)	FL+ Frequency Offset(MHz)	FH+ Frequency Offset(MHz)	Result
		6	QPSK	-0.74	2575.72	2634.28	Pass
			16QAM	-0.89	2575.72	2634.28	Pass
			64QAM	-1.85	2575.72	2634.28	Pass
		7	QPSK	-1.50	2575.72	2634.28	Pass
			16QAM	-1.33	2575.72	2634.28	Pass
			64QAM	-1.98	2575.72	2634.28	Pass
-30	-48	0	QPSK	-1.68	2575.72	2634.28	Pass
			16QAM	-1.19	2575.72	2634.28	Pass
			64QAM	-0.75	2575.72	2634.28	Pass
		1	QPSK	-1.71	2575.72	2634.28	Pass
			16QAM	-1.37	2575.72	2634.28	Pass
			64QAM	-1.54	2575.72	2634.28	Pass
		2	QPSK	-2.35	2575.72	2634.28	Pass
			16QAM	-1.20	2575.72	2634.28	Pass
			64QAM	-1.73	2575.72	2634.28	Pass
		3	QPSK	-2.88	2575.72	2634.28	Pass
			16QAM	-1.34	2575.72	2634.28	Pass
			64QAM	-2.20	2575.72	2634.28	Pass
		4	QPSK	-1.95	2575.72	2634.28	Pass
			16QAM	-2.36	2575.72	2634.28	Pass
			64QAM	-1.71	2575.72	2634.28	Pass
		5	QPSK	-2.10	2575.72	2634.28	Pass
			16QAM	-1.40	2575.72	2634.28	Pass
			64QAM	-1.68	2575.72	2634.28	Pass
		6	QPSK	-1.93	2575.72	2634.28	Pass
			16QAM	-1.91	2575.72	2634.28	Pass
			64QAM	-2.35	2575.72	2634.28	Pass
		7	QPSK	-1.14	2575.72	2634.28	Pass
			16QAM	-0.96	2575.72	2634.28	Pass
			64QAM	-1.13	2575.72	2634.28	Pass
-20	-48	0	QPSK	-1.87	2575.72	2634.28	Pass
			16QAM	-1.32	2575.72	2634.28	Pass
			64QAM	-1.13	2575.72	2634.28	Pass

**Frequency Stability vs. Temperature (Channel Bandwidth:20M+20M+20M
Frequency :2585+2605+2625MHz)
FL=2575.72MHz, FH=2634.28MHz**

Temperature (°C)	Power Supplied (V _{DC})	Port	Modulation	Frequency Measure Error (Hz)	FL+ Frequency Offset(MHz)	FH+ Frequency Offset(MHz)	Result
		1	QPSK	-2.23	2575.72	2634.28	Pass
			16QAM	-0.68	2575.72	2634.28	Pass
			64QAM	-1.94	2575.72	2634.28	Pass
		2	QPSK	-1.57	2575.72	2634.28	Pass
			16QAM	-1.51	2575.72	2634.28	Pass
			64QAM	-1.31	2575.72	2634.28	Pass
		3	QPSK	-0.72	2575.72	2634.28	Pass
			16QAM	-1.54	2575.72	2634.28	Pass
			64QAM	-0.94	2575.72	2634.28	Pass
		4	QPSK	-1.46	2575.72	2634.28	Pass
			16QAM	-1.55	2575.72	2634.28	Pass
			64QAM	-1.94	2575.72	2634.28	Pass
		5	QPSK	-1.20	2575.72	2634.28	Pass
			16QAM	-1.75	2575.72	2634.28	Pass
			64QAM	-1.31	2575.72	2634.28	Pass
		6	QPSK	-2.08	2575.72	2634.28	Pass
			16QAM	-1.74	2575.72	2634.28	Pass
			64QAM	-0.74	2575.72	2634.28	Pass
		7	QPSK	-1.28	2575.72	2634.28	Pass
			16QAM	-1.08	2575.72	2634.28	Pass
			64QAM	-0.77	2575.72	2634.28	Pass
-10	-48	0	QPSK	-3.58	2575.72	2634.28	Pass
			16QAM	-4.14	2575.72	2634.28	Pass
			64QAM	-3.08	2575.72	2634.28	Pass
		1	QPSK	-2.94	2575.72	2634.28	Pass
			16QAM	-2.45	2575.72	2634.28	Pass
			64QAM	-1.67	2575.72	2634.28	Pass
		2	QPSK	-0.13	2575.72	2634.28	Pass
			16QAM	-2.20	2575.72	2634.28	Pass
			64QAM	-1.34	2575.72	2634.28	Pass
		3	QPSK	-3.88	2575.72	2634.28	Pass
			16QAM	-0.93	2575.72	2634.28	Pass
			64QAM	-2.34	2575.72	2634.28	Pass

Frequency Stability vs. Temperature (Channel Bandwidth:20M+20M+20M Frequency :2585+2605+2625MHz) FL=2575.72MHz, FH=2634.28MHz							
Temperature (°C)	Power Supplied (V _{DC})	Port	Modulation	Frequency Measure Error (Hz)	FL+ Frequency Offset(MHz)	FH+ Frequency Offset(MHz)	Result
		4	QPSK	1.44	2575.72	2634.28	Pass
			16QAM	-1.99	2575.72	2634.28	Pass
			64QAM	-2.62	2575.72	2634.28	Pass
		5	QPSK	-1.18	2575.72	2634.28	Pass
			16QAM	-0.80	2575.72	2634.28	Pass
			64QAM	0.87	2575.72	2634.28	Pass
		6	QPSK	0.20	2575.72	2634.28	Pass
			16QAM	-2.09	2575.72	2634.28	Pass
			64QAM	0.03	2575.72	2634.28	Pass
		7	QPSK	-1.50	2575.72	2634.28	Pass
			16QAM	-2.74	2575.72	2634.28	Pass
			64QAM	-2.67	2575.72	2634.28	Pass
0	-48	0	QPSK	-1.93	2575.72	2634.28	Pass
			16QAM	-1.28	2575.72	2634.28	Pass
			64QAM	-2.07	2575.72	2634.28	Pass
		1	QPSK	-2.58	2575.72	2634.28	Pass
			16QAM	-4.03	2575.72	2634.28	Pass
			64QAM	-2.01	2575.72	2634.28	Pass
		2	QPSK	-1.24	2575.72	2634.28	Pass
			16QAM	-3.15	2575.72	2634.28	Pass
			64QAM	-2.15	2575.72	2634.28	Pass
		3	QPSK	-3.86	2575.72	2634.28	Pass
			16QAM	-2.59	2575.72	2634.28	Pass
			64QAM	-2.76	2575.72	2634.28	Pass
		4	QPSK	-3.39	2575.72	2634.28	Pass
			16QAM	-2.24	2575.72	2634.28	Pass
			64QAM	-3.89	2575.72	2634.28	Pass
		5	QPSK	-3.89	2575.72	2634.28	Pass
			16QAM	-3.39	2575.72	2634.28	Pass
			64QAM	-2.41	2575.72	2634.28	Pass
		6	QPSK	-2.71	2575.72	2634.28	Pass
			16QAM	-1.24	2575.72	2634.28	Pass
			64QAM	-1.67	2575.72	2634.28	Pass

Frequency Stability vs. Temperature (Channel Bandwidth:20M+20M+20M Frequency :2585+2605+2625MHz) FL=2575.72MHz, FH=2634.28MHz									
Temperature (°C)	Power Supplied (V _{DC})	Port	Modulation	Frequency Measure Error (Hz)	FL+ Frequency Offset(MHz)	FH+ Frequency Offset(MHz)	Result		
10	-48	7	QPSK	-3.64	2575.72	2634.28	Pass		
			16QAM	-1.10	2575.72	2634.28	Pass		
			64QAM	-2.74	2575.72	2634.28	Pass		
		0	QPSK	1.24	2575.72	2634.28	Pass		
			16QAM	3.88	2575.72	2634.28	Pass		
			64QAM	-1.06	2575.72	2634.28	Pass		
			1	QPSK	0.48	2575.72	2634.28	Pass	
				16QAM	1.42	2575.72	2634.28	Pass	
				64QAM	3.77	2575.72	2634.28	Pass	
			2	QPSK	3.55	2575.72	2634.28	Pass	
				16QAM	-0.43	2575.72	2634.28	Pass	
				64QAM	3.65	2575.72	2634.28	Pass	
		3	QPSK	0.74	2575.72	2634.28	Pass		
			16QAM	1.54	2575.72	2634.28	Pass		
			64QAM	-1.83	2575.72	2634.28	Pass		
		4	QPSK	-3.18	2575.72	2634.28	Pass		
			16QAM	3.19	2575.72	2634.28	Pass		
			64QAM	3.27	2575.72	2634.28	Pass		
		5	QPSK	3.02	2575.72	2634.28	Pass		
			16QAM	-3.94	2575.72	2634.28	Pass		
			64QAM	-0.44	2575.72	2634.28	Pass		
		6	QPSK	-1.96	2575.72	2634.28	Pass		
			16QAM	-3.93	2575.72	2634.28	Pass		
			64QAM	-3.24	2575.72	2634.28	Pass		
		7	QPSK	3.15	2575.72	2634.28	Pass		
			16QAM	-1.49	2575.72	2634.28	Pass		
			64QAM	-0.65	2575.72	2634.28	Pass		
		20	-48	0	QPSK	-1.09	2575.72	2634.28	Pass
					16QAM	2.64	2575.72	2634.28	Pass
					64QAM	1.02	2575.72	2634.28	Pass
1	QPSK			-3.77	2575.72	2634.28	Pass		
	16QAM			3.34	2575.72	2634.28	Pass		
	64QAM			-2.09	2575.72	2634.28	Pass		

Frequency Stability vs. Temperature (Channel Bandwidth:20M+20M+20M Frequency :2585+2605+2625MHz) FL=2575.72MHz, FH=2634.28MHz									
Temperature (°C)	Power Supplied (V _{DC})	Port	Modulation	Frequency Measure Error (Hz)	FL+ Frequency Offset(MHz)	FH+ Frequency Offset(MHz)	Result		
30	-48	2	QPSK	1.38	2575.72	2634.28	Pass		
			16QAM	-1.84	2575.72	2634.28	Pass		
			64QAM	0.94	2575.72	2634.28	Pass		
		3	QPSK	0.90	2575.72	2634.28	Pass		
			16QAM	0.35	2575.72	2634.28	Pass		
			64QAM	-3.48	2575.72	2634.28	Pass		
		4	QPSK	1.65	2575.72	2634.28	Pass		
			16QAM	0.14	2575.72	2634.28	Pass		
			64QAM	-2.22	2575.72	2634.28	Pass		
		5	QPSK	3.47	2575.72	2634.28	Pass		
			16QAM	-3.85	2575.72	2634.28	Pass		
			64QAM	-3.81	2575.72	2634.28	Pass		
		6	QPSK	-1.72	2575.72	2634.28	Pass		
			16QAM	0.80	2575.72	2634.28	Pass		
			64QAM	-3.32	2575.72	2634.28	Pass		
		7	QPSK	-3.29	2575.72	2634.28	Pass		
			16QAM	1.08	2575.72	2634.28	Pass		
			64QAM	0.98	2575.72	2634.28	Pass		
		30	-48	0	QPSK	1.55	2575.72	2634.28	Pass
					16QAM	2.29	2575.72	2634.28	Pass
					64QAM	-1.79	2575.72	2634.28	Pass
				1	QPSK	0.41	2575.72	2634.28	Pass
					16QAM	-2.37	2575.72	2634.28	Pass
					64QAM	-1.91	2575.72	2634.28	Pass
				2	QPSK	3.21	2575.72	2634.28	Pass
					16QAM	3.37	2575.72	2634.28	Pass
					64QAM	-2.55	2575.72	2634.28	Pass
3	QPSK			-3.95	2575.72	2634.28	Pass		
	16QAM			1.23	2575.72	2634.28	Pass		
	64QAM			1.69	2575.72	2634.28	Pass		
4	QPSK			1.71	2575.72	2634.28	Pass		
	16QAM			-2.27	2575.72	2634.28	Pass		
	64QAM			0.57	2575.72	2634.28	Pass		

Frequency Stability vs. Temperature (Channel Bandwidth:20M+20M+20M Frequency :2585+2605+2625MHz) FL=2575.72MHz, FH=2634.28MHz								
Temperature (°C)	Power Supplied (V _{DC})	Port	Modulation	Frequency Measure Error (Hz)	FL+ Frequency Offset(MHz)	FH+ Frequency Offset(MHz)	Result	
		5	QPSK	2.64	2575.72	2634.28	Pass	
			16QAM	-2.00	2575.72	2634.28	Pass	
			64QAM	0.45	2575.72	2634.28	Pass	
		6		QPSK	2.12	2575.72	2634.28	Pass
				16QAM	2.74	2575.72	2634.28	Pass
				64QAM	-1.72	2575.72	2634.28	Pass
		7		QPSK	-2.02	2575.72	2634.28	Pass
				16QAM	-2.58	2575.72	2634.28	Pass
				64QAM	-1.58	2575.72	2634.28	Pass
40	-48	0	QPSK	0.19	2575.72	2634.28	Pass	
			16QAM	-3.60	2575.72	2634.28	Pass	
			64QAM	2.51	2575.72	2634.28	Pass	
		1		QPSK	0.59	2575.72	2634.28	Pass
				16QAM	-0.43	2575.72	2634.28	Pass
				64QAM	0.98	2575.72	2634.28	Pass
		2		QPSK	2.73	2575.72	2634.28	Pass
				16QAM	1.71	2575.72	2634.28	Pass
				64QAM	-2.42	2575.72	2634.28	Pass
		3		QPSK	3.91	2575.72	2634.28	Pass
				16QAM	0.42	2575.72	2634.28	Pass
				64QAM	2.53	2575.72	2634.28	Pass
		4		QPSK	-2.66	2575.72	2634.28	Pass
				16QAM	2.28	2575.72	2634.28	Pass
				64QAM	-2.36	2575.72	2634.28	Pass
		5		QPSK	2.06	2575.72	2634.28	Pass
				16QAM	0.42	2575.72	2634.28	Pass
				64QAM	3.02	2575.72	2634.28	Pass
		6		QPSK	2.56	2575.72	2634.28	Pass
				16QAM	2.77	2575.72	2634.28	Pass
				64QAM	3.10	2575.72	2634.28	Pass
		7		QPSK	-0.11	2575.72	2634.28	Pass
				16QAM	0.52	2575.72	2634.28	Pass
				64QAM	3.21	2575.72	2634.28	Pass

Frequency Stability vs. Temperature (Channel Bandwidth:20M+20M+20M Frequency :2585+2605+2625MHz) FL=2575.72MHz, FH=2634.28MHz							
Temperature (°C)	Power Supplied (V _{DC})	Port	Modulation	Frequency Measure Error (Hz)	FL+ Frequency Offset(MHz)	FH+ Frequency Offset(MHz)	Result
50	-48	0	QPSK	-0.12	2575.72	2634.28	Pass
			16QAM	-0.02	2575.72	2634.28	Pass
			64QAM	-0.60	2575.72	2634.28	Pass
		1	QPSK	-0.35	2575.72	2634.28	Pass
			16QAM	2.00	2575.72	2634.28	Pass
			64QAM	2.09	2575.72	2634.28	Pass
		2	QPSK	-2.43	2575.72	2634.28	Pass
			16QAM	0.61	2575.72	2634.28	Pass
			64QAM	-3.52	2575.72	2634.28	Pass
		3	QPSK	0.37	2575.72	2634.28	Pass
			16QAM	-2.98	2575.72	2634.28	Pass
			64QAM	-0.08	2575.72	2634.28	Pass
		4	QPSK	-0.97	2575.72	2634.28	Pass
			16QAM	0.86	2575.72	2634.28	Pass
			64QAM	-1.18	2575.72	2634.28	Pass
		5	QPSK	-2.45	2575.72	2634.28	Pass
			16QAM	-0.20	2575.72	2634.28	Pass
			64QAM	-0.58	2575.72	2634.28	Pass
		6	QPSK	-3.42	2575.72	2634.28	Pass
			16QAM	0.86	2575.72	2634.28	Pass
			64QAM	-2.07	2575.72	2634.28	Pass
		7	QPSK	2.26	2575.72	2634.28	Pass
			16QAM	-3.19	2575.72	2634.28	Pass
			64QAM	-1.60	2575.72	2634.28	Pass
55	-48	0	QPSK	3.51	2575.72	2634.28	Pass
			16QAM	0.83	2575.72	2634.28	Pass
			64QAM	-0.91	2575.72	2634.28	Pass
		1	QPSK	-2.37	2575.72	2634.28	Pass
			16QAM	-1.49	2575.72	2634.28	Pass
			64QAM	-2.51	2575.72	2634.28	Pass
		2	QPSK	-0.41	2575.72	2634.28	Pass
			16QAM	3.30	2575.72	2634.28	Pass
			64QAM	-1.21	2575.72	2634.28	Pass

Frequency Stability vs. Temperature (Channel Bandwidth:20M+20M+20M Frequency :2585+2605+2625MHz) FL=2575.72MHz, FH=2634.28MHz							
Temperature (°C)	Power Supplied (V _{DC})	Port	Modulation	Frequency Measure Error (Hz)	FL+ Frequency Offset(MHz)	FH+ Frequency Offset(MHz)	Result
		3	QPSK	-1.66	2575.72	2634.28	Pass
			16QAM	-0.07	2575.72	2634.28	Pass
			64QAM	-0.99	2575.72	2634.28	Pass
		4	QPSK	-3.52	2575.72	2634.28	Pass
			16QAM	1.07	2575.72	2634.28	Pass
			64QAM	-2.75	2575.72	2634.28	Pass
		5	QPSK	3.80	2575.72	2634.28	Pass
			16QAM	3.20	2575.72	2634.28	Pass
			64QAM	-2.53	2575.72	2634.28	Pass
		6	QPSK	3.92	2575.72	2634.28	Pass
			16QAM	-1.34	2575.72	2634.28	Pass
			64QAM	-2.66	2575.72	2634.28	Pass
7	QPSK	-0.62	2575.72	2634.28	Pass		
	16QAM	0.79	2575.72	2634.28	Pass		
	64QAM	3.53	2575.72	2634.28	Pass		

Frequency Stability versus Voltage

Frequency Stability vs. Temperature (Channel Bandwidth:20M+20M+20M Frequency :2585+2605+2625MHz) FL=2575.72MHz, FH=2634.28MHz							
Voltage: Ref=-48V (%)	Temperature (°C)	Port	Modulation	Frequency Measure Error (Hz)	FL+ Frequency Offset(MHz)	FH+ Frequency Offset(MHz)	Result
85%	25°C	0	QPSK	2.56	2575.72	2634.28	Pass
			16QAM	2.27	2575.72	2634.28	Pass
			64QAM	2.92	2575.72	2634.28	Pass
		1	QPSK	1.93	2575.72	2634.28	Pass
			16QAM	1.69	2575.72	2634.28	Pass
			64QAM	-0.86	2575.72	2634.28	Pass
		2	QPSK	-3.13	2575.72	2634.28	Pass

Frequency Stability vs. Temperature (Channel Bandwidth:20M+20M+20M)
Frequency :2585+2605+2625MHz)
FL=2575.72MHz, FH=2634.28MHz

Voltage: Ref=-48V (%)	Temperature (°C)	Port	Modulation	Frequency Measure Error (Hz)	FL+ Frequency Offset(MHz)	FH+ Frequency Offset(MHz)	Result		
100%	25°C		16QAM	1.91	2575.72	2634.28	Pass		
			64QAM	0.00	2575.72	2634.28	Pass		
			3	QPSK	3.80	2575.72	2634.28	Pass	
		16QAM		-2.19	2575.72	2634.28	Pass		
		64QAM		-2.34	2575.72	2634.28	Pass		
		4	QPSK	1.31	2575.72	2634.28	Pass		
			16QAM	-1.97	2575.72	2634.28	Pass		
			64QAM	2.81	2575.72	2634.28	Pass		
		5	QPSK	3.34	2575.72	2634.28	Pass		
			16QAM	-0.53	2575.72	2634.28	Pass		
			64QAM	-2.74	2575.72	2634.28	Pass		
		6	QPSK	1.63	2575.72	2634.28	Pass		
			16QAM	2.35	2575.72	2634.28	Pass		
			64QAM	1.53	2575.72	2634.28	Pass		
		7	QPSK	-1.99	2575.72	2634.28	Pass		
			16QAM	3.18	2575.72	2634.28	Pass		
			64QAM	-0.80	2575.72	2634.28	Pass		
		100%	25°C	0	QPSK	0.05	2575.72	2634.28	Pass
					16QAM	2.14	2575.72	2634.28	Pass
					64QAM	-3.76	2575.72	2634.28	Pass
				1	QPSK	0.69	2575.72	2634.28	Pass
16QAM	2.54				2575.72	2634.28	Pass		
64QAM	1.39				2575.72	2634.28	Pass		
2	QPSK			-3.91	2575.72	2634.28	Pass		
	16QAM			-1.25	2575.72	2634.28	Pass		
	64QAM			-2.31	2575.72	2634.28	Pass		
3	QPSK			3.87	2575.72	2634.28	Pass		
	16QAM			0.86	2575.72	2634.28	Pass		
	64QAM			-2.68	2575.72	2634.28	Pass		
4	QPSK			-1.98	2575.72	2634.28	Pass		
	16QAM			2.96	2575.72	2634.28	Pass		
	64QAM			-0.80	2575.72	2634.28	Pass		
5	QPSK	2.73	2575.72	2634.28	Pass				

Frequency Stability vs. Temperature (Channel Bandwidth:20M+20M+20M)
Frequency :2585+2605+2625MHz)
FL=2575.72MHz, FH=2634.28MHz

Voltage: Ref=-48V (%)	Temperature (°C)	Port	Modulation	Frequency Measure Error (Hz)	FL+ Frequency Offset(MHz)	FH+ Frequency Offset(MHz)	Result	
		6	16QAM	-3.64	2575.72	2634.28	Pass	
			64QAM	3.21	2575.72	2634.28	Pass	
			QPSK	0.77	2575.72	2634.28	Pass	
			16QAM	-3.51	2575.72	2634.28	Pass	
			64QAM	-0.67	2575.72	2634.28	Pass	
			QPSK	-0.90	2575.72	2634.28	Pass	
		7	16QAM	0.08	2575.72	2634.28	Pass	
			64QAM	-2.58	2575.72	2634.28	Pass	
			0	QPSK	3.85	2575.72	2634.28	Pass
				16QAM	-2.88	2575.72	2634.28	Pass
				64QAM	-1.17	2575.72	2634.28	Pass
			1	QPSK	-2.74	2575.72	2634.28	Pass
16QAM	1.69	2575.72		2634.28	Pass			
64QAM	-1.35	2575.72		2634.28	Pass			
2	QPSK	2.28	2575.72	2634.28	Pass			
	16QAM	-2.10	2575.72	2634.28	Pass			
	64QAM	-0.19	2575.72	2634.28	Pass			
3	QPSK	-3.41	2575.72	2634.28	Pass			
	16QAM	2.04	2575.72	2634.28	Pass			
	64QAM	0.92	2575.72	2634.28	Pass			
4	QPSK	1.11	2575.72	2634.28	Pass			
	16QAM	0.54	2575.72	2634.28	Pass			
	64QAM	-3.40	2575.72	2634.28	Pass			
5	QPSK	0.71	2575.72	2634.28	Pass			
	16QAM	-2.06	2575.72	2634.28	Pass			
	64QAM	-2.14	2575.72	2634.28	Pass			
6	QPSK	-2.05	2575.72	2634.28	Pass			
	16QAM	1.70	2575.72	2634.28	Pass			
	64QAM	0.89	2575.72	2634.28	Pass			
7	QPSK	-2.53	2575.72	2634.28	Pass			
	16QAM	-1.07	2575.72	2634.28	Pass			
	64QAM	-3.33	2575.72	2634.28	Pass			