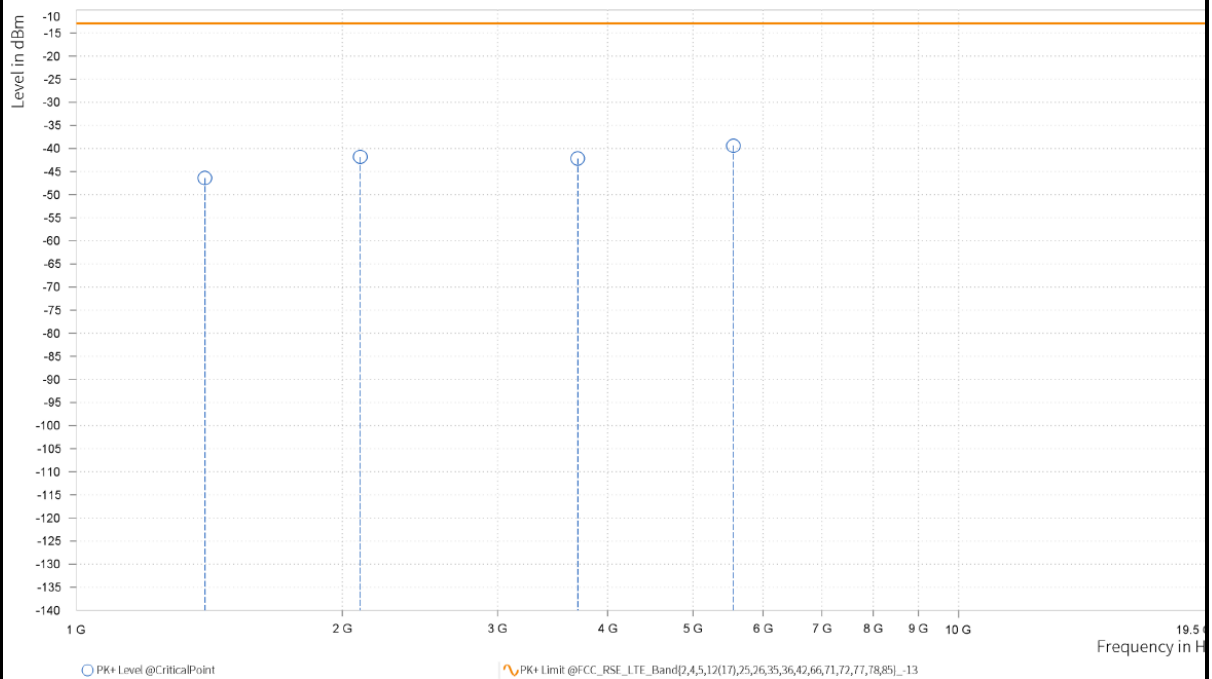




CHANNEL BANDWIDTH	10M+20M	MODE	TX channel 26140
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,399.000	-46.40	-13.00	33.40	23.17	V	202.3	1.00
2	2,098.500	-41.85	-13.00	28.85	29.23	V	175.3	2.00
4	3,701.500	-42.16	-13.00	29.16	21.71	V	118.1	1.00
4	5,553.500	-39.38	-13.00	26.38	24.96	V	118.1	1.00



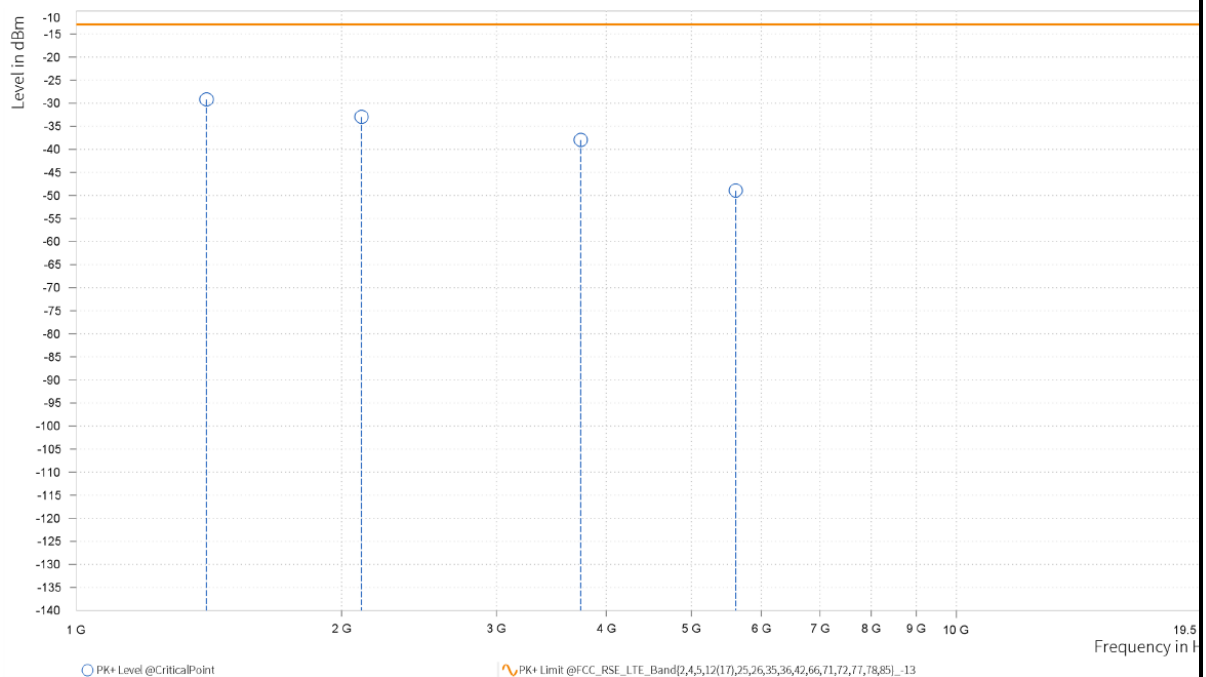


BUREAU VERITAS Test Report No.: PSU-QSU2411180418RF03

CHANNEL BANDWIDTH	10M+20M	MODE	TX channel 26340
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,406.000	-29.19	-13.00	16.19	22.99	H	173.9	2.00
2	2,109.000	-32.96	-13.00	19.96	28.54	H	173.9	2.00
4	3,741.500	-37.99	-13.00	24.99	21.35	H	358.2	1.00
4	5,613.000	-48.94	-13.00	35.94	24.60	H	358.2	1.00

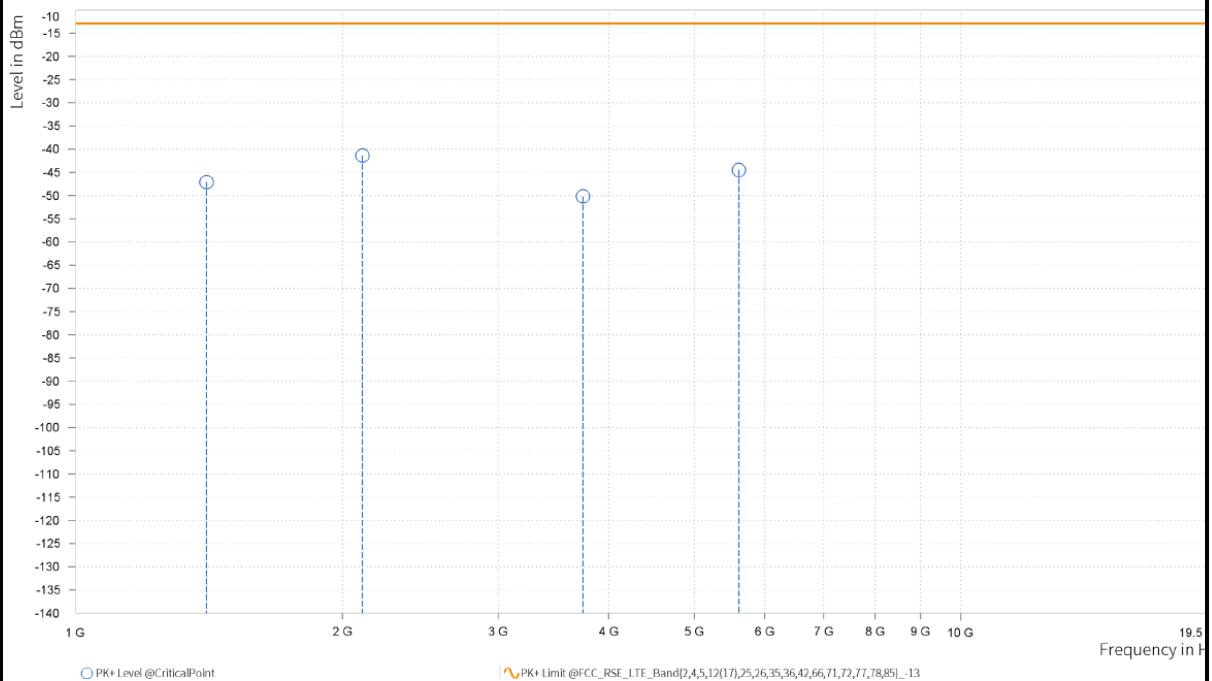




CHANNEL BANDWIDTH	10M+20M	MODE	TX channel 26340
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,406.000	-47.09	-13.00	34.09	23.11	V	358.1	1.00
2	2,109.000	-41.38	-13.00	28.38	29.24	V	358.1	1.00
4	3,742.000	-50.16	-13.00	37.16	22.00	V	117.4	1.00
4	5,613.000	-44.46	-13.00	31.46	25.05	V	48	2.00



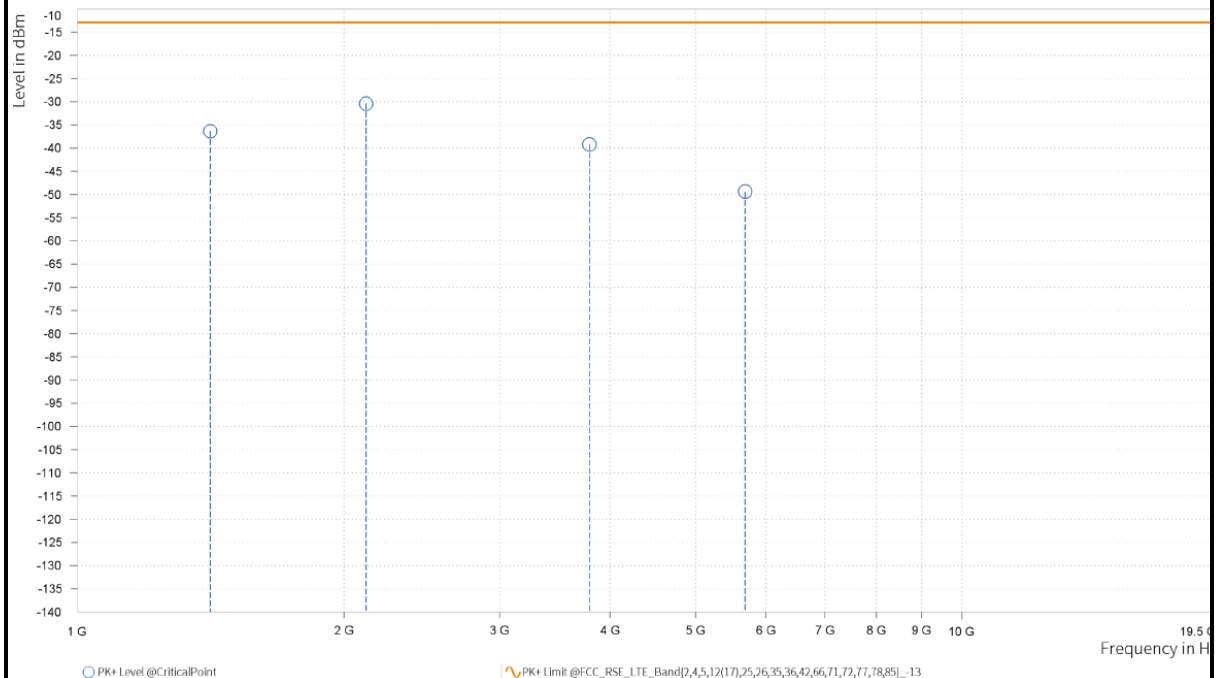


BUREAU VERITAS Test Report No.: PSU-QSU2411180418RF03

CHANNEL BANDWIDTH	10M+20M	MODE	TX channel 26590
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,413.500	-36.33	-13.00	23.33	23.30	H	36.7	1.00
2	2,120.500	-30.39	-13.00	17.39	28.40	H	173.9	2.00
4	3,792.500	-39.16	-13.00	26.16	22.18	H	259.5	2.00
4	5,688.000	-49.39	-13.00	36.39	25.02	H	37.3	2.00

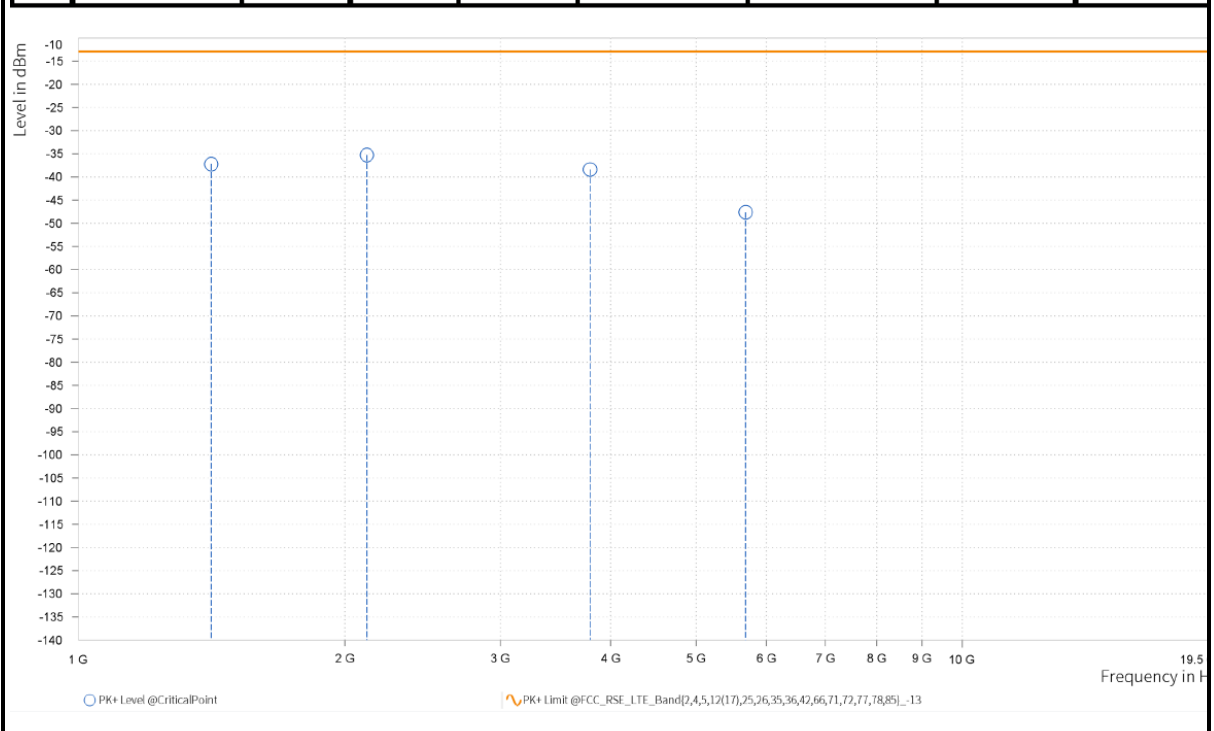




CHANNEL BANDWIDTH	10M+20M	MODE	TX channel 26590
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,413.000	-37.21	-13.00	24.21	22.92	V	173.9	2.00
2	2,119.500	-35.25	-13.00	22.25	29.01	V	173.9	2.00
4	3,792.000	-38.37	-13.00	25.37	22.39	V	38.7	2.00
4	5,688.000	-47.60	-13.00	34.60	25.44	V	98.2	2.00



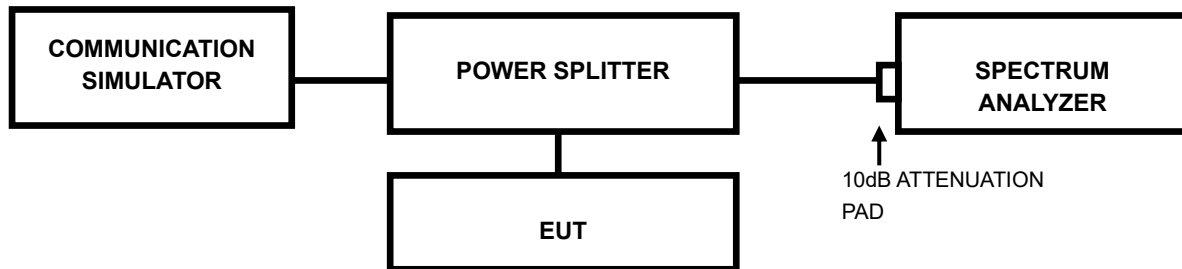


3.7 PEAK TO AVERAGE RATIO

3.7.1 LIMITS OF PEAK TO AVERAGE RATIO MEASUREMENT

In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB

3.7.2 TEST SETUP



3.7.3 TEST PROCEDURES

1. Set resolution/measurement bandwidth $\geq$ signal's occupied bandwidth;
2. Set the number of counts to a value that stabilizes the measured CCDF curve;
3. Record the maximum PAPR level associated with a probability of 0.1%.

3.7.4 TEST RESULTS

Please Refer to Appendix of this test report.



4 INFORMATION ON THE TESTING LABORATORIES

We, Huarui 7layers High Technology (Suzhou) Co., Ltd. ,were founded in 2020 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

Huarui 7Layers High Technology (Suzhou) Co., Ltd.

Lab Address:

Tower N, Innovation Center, 88 Zuyi Road, High-tech District, Suzhou City, Anhui Province, China

Accredited Test Lab Cert 6613.01

If you have any comments, please feel free to contact us at the following:

Suzhou EMC/RF Lab:

Tel: +86 (0557) 368 1008



5 MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.



6 Appendix

LTE B25 (INCLUDING LTE BAND 2)

PEAK-TO-AVERAGE RATIO(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band25	1.4MHz	QPSK	26047	1RB#0	4.85	13	PASS
Band25	1.4MHz	QPSK	26047	25RB#0	5.29	13	PASS
Band25	1.4MHz	QPSK	26365	1RB#0	4.98	13	PASS
Band25	1.4MHz	QPSK	26365	25RB#0	5.46	13	PASS
Band25	1.4MHz	QPSK	26683	1RB#0	4.68	13	PASS
Band25	1.4MHz	QPSK	26683	25RB#0	5.20	13	PASS
Band25	1.4MHz	64QAM	26047	1RB#0	5.91	13	PASS
Band25	1.4MHz	64QAM	26047	25RB#0	5.15	13	PASS
Band25	1.4MHz	64QAM	26365	1RB#0	6.30	13	PASS
Band25	1.4MHz	64QAM	26365	25RB#0	5.47	13	PASS
Band25	1.4MHz	64QAM	26683	1RB#0	5.86	13	PASS
Band25	1.4MHz	64QAM	26683	25RB#0	5.16	13	PASS
Band25	1.4MHz	256QAM	26047	1RB#0	6.75	13	PASS
Band25	1.4MHz	256QAM	26047	25RB#0	5.12	13	PASS
Band25	1.4MHz	256QAM	26365	1RB#0	6.76	13	PASS
Band25	1.4MHz	256QAM	26365	25RB#0	5.45	13	PASS
Band25	1.4MHz	256QAM	26683	1RB#0	6.75	13	PASS
Band25	1.4MHz	256QAM	26683	25RB#0	5.16	13	PASS
Band25	1.4MHz	16QAM	26047	1RB#0	5.77	13	PASS
Band25	1.4MHz	16QAM	26047	25RB#0	5.33	13	PASS
Band25	1.4MHz	16QAM	26365	1RB#0	5.99	13	PASS
Band25	1.4MHz	16QAM	26365	25RB#0	5.45	13	PASS
Band25	1.4MHz	16QAM	26683	1RB#0	5.60	13	PASS
Band25	1.4MHz	16QAM	26683	25RB#0	5.19	13	PASS
Band25	3MHz	QPSK	26055	1RB#0	4.80	13	PASS
Band25	3MHz	QPSK	26055	15RB#0	5.29	13	PASS
Band25	3MHz	QPSK	26365	1RB#0	5.09	13	PASS
Band25	3MHz	QPSK	26365	15RB#0	5.44	13	PASS
Band25	3MHz	QPSK	26675	1RB#0	4.71	13	PASS
Band25	3MHz	QPSK	26675	15RB#0	5.26	13	PASS
Band25	3MHz	64QAM	26055	1RB#0	5.77	13	PASS
Band25	3MHz	64QAM	26055	15RB#0	6.28	13	PASS
Band25	3MHz	64QAM	26365	1RB#0	6.32	13	PASS
Band25	3MHz	64QAM	26365	15RB#0	6.53	13	PASS
Band25	3MHz	64QAM	26675	1RB#0	6.10	13	PASS
Band25	3MHz	64QAM	26675	15RB#0	6.35	13	PASS
Band25	3MHz	256QAM	26055	1RB#0	6.68	13	PASS
Band25	3MHz	256QAM	26055	15RB#0	6.73	13	PASS
Band25	3MHz	256QAM	26365	1RB#0	6.76	13	PASS
Band25	3MHz	256QAM	26365	15RB#0	6.83	13	PASS
Band25	3MHz	256QAM	26675	1RB#0	6.83	13	PASS
Band25	3MHz	256QAM	26675	15RB#0	6.75	13	PASS



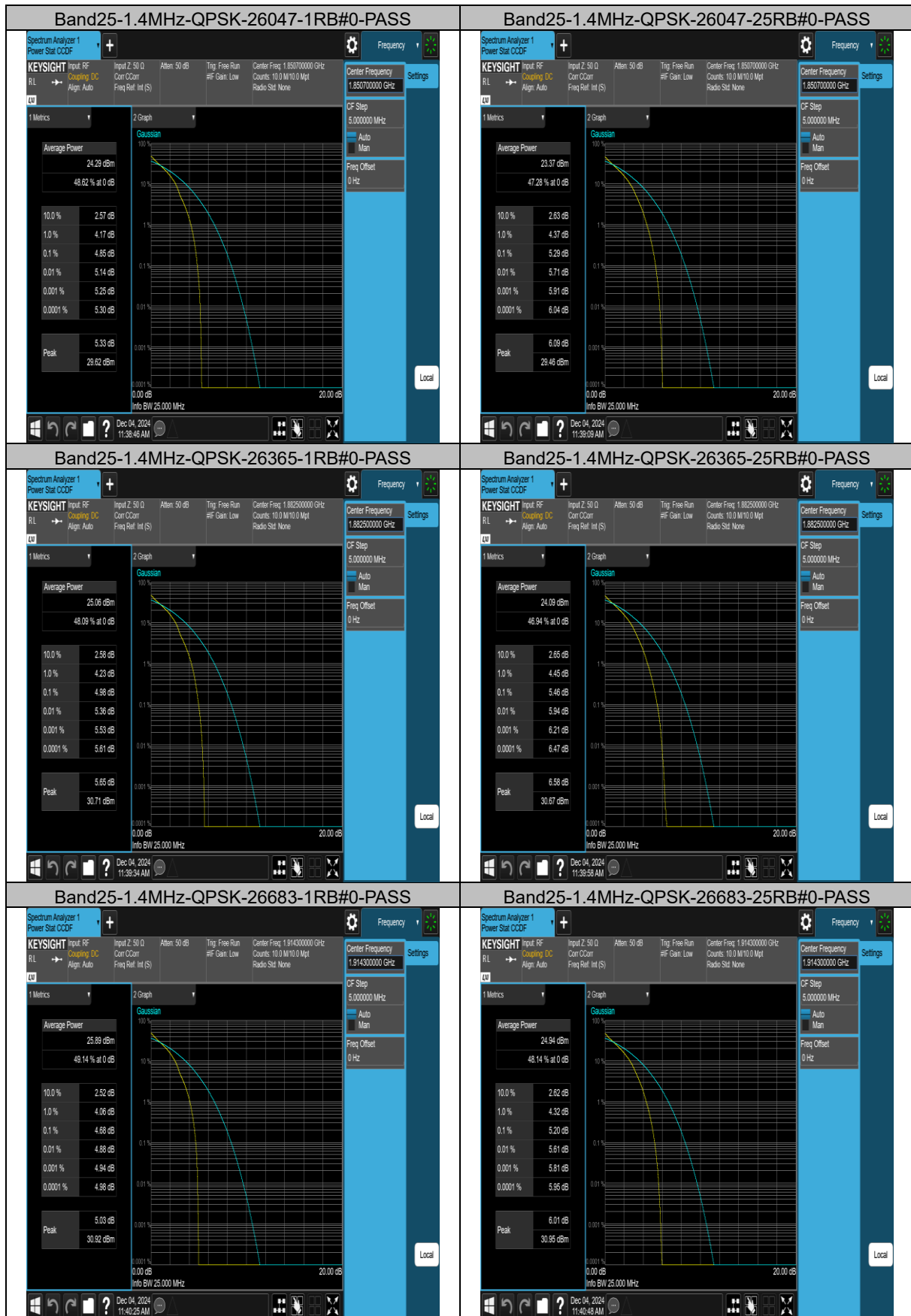
Band25	3MHz	16QAM	26055	1RB#0	5.79	13	PASS
Band25	3MHz	16QAM	26055	15RB#0	6.15	13	PASS
Band25	3MHz	16QAM	26365	1RB#0	5.99	13	PASS
Band25	3MHz	16QAM	26365	15RB#0	6.28	13	PASS
Band25	3MHz	16QAM	26675	1RB#0	5.67	13	PASS
Band25	3MHz	16QAM	26675	15RB#0	6.09	13	PASS
Band25	5MHz	QPSK	26065	1RB#0	4.85	13	PASS
Band25	5MHz	QPSK	26065	25RB#0	5.32	13	PASS
Band25	5MHz	QPSK	26365	1RB#0	5.07	13	PASS
Band25	5MHz	QPSK	26365	25RB#0	5.45	13	PASS
Band25	5MHz	QPSK	26665	1RB#0	4.88	13	PASS
Band25	5MHz	QPSK	26665	25RB#0	5.30	13	PASS
Band25	5MHz	64QAM	26065	1RB#0	5.95	13	PASS
Band25	5MHz	64QAM	26065	25RB#0	6.33	13	PASS
Band25	5MHz	64QAM	26365	1RB#0	6.37	13	PASS
Band25	5MHz	64QAM	26365	25RB#0	6.48	13	PASS
Band25	5MHz	64QAM	26665	1RB#0	6.20	13	PASS
Band25	5MHz	64QAM	26665	25RB#0	6.33	13	PASS
Band25	5MHz	256QAM	26065	1RB#0	6.70	13	PASS
Band25	5MHz	256QAM	26065	25RB#0	6.73	13	PASS
Band25	5MHz	256QAM	26365	1RB#0	6.80	13	PASS
Band25	5MHz	256QAM	26365	25RB#0	6.77	13	PASS
Band25	5MHz	256QAM	26665	1RB#0	6.78	13	PASS
Band25	5MHz	256QAM	26665	25RB#0	6.72	13	PASS
Band25	5MHz	16QAM	26065	1RB#0	5.73	13	PASS
Band25	5MHz	16QAM	26065	25RB#0	6.10	13	PASS
Band25	5MHz	16QAM	26365	1RB#0	5.97	13	PASS
Band25	5MHz	16QAM	26365	25RB#0	6.26	13	PASS
Band25	5MHz	16QAM	26665	1RB#0	5.81	13	PASS
Band25	5MHz	16QAM	26665	25RB#0	6.11	13	PASS
Band25	10MHz	QPSK	26090	1RB#0	4.82	13	PASS
Band25	10MHz	QPSK	26090	50RB#0	5.43	13	PASS
Band25	10MHz	QPSK	26365	1RB#0	5.02	13	PASS
Band25	10MHz	QPSK	26365	50RB#0	5.50	13	PASS
Band25	10MHz	QPSK	26640	1RB#0	5.08	13	PASS
Band25	10MHz	QPSK	26640	50RB#0	5.47	13	PASS
Band25	10MHz	64QAM	26090	1RB#0	5.95	13	PASS
Band25	10MHz	64QAM	26090	50RB#0	6.40	13	PASS
Band25	10MHz	64QAM	26365	1RB#0	6.13	13	PASS
Band25	10MHz	64QAM	26365	50RB#0	6.50	13	PASS
Band25	10MHz	64QAM	26640	1RB#0	6.19	13	PASS
Band25	10MHz	64QAM	26640	50RB#0	6.42	13	PASS
Band25	10MHz	256QAM	26090	1RB#0	6.68	13	PASS
Band25	10MHz	256QAM	26090	50RB#0	6.75	13	PASS
Band25	10MHz	256QAM	26365	1RB#0	6.97	13	PASS
Band25	10MHz	256QAM	26365	50RB#0	6.79	13	PASS
Band25	10MHz	256QAM	26640	1RB#0	6.86	13	PASS
Band25	10MHz	256QAM	26640	50RB#0	6.76	13	PASS
Band25	10MHz	16QAM	26090	1RB#0	5.62	13	PASS
Band25	10MHz	16QAM	26090	50RB#0	6.23	13	PASS
Band25	10MHz	16QAM	26365	1RB#0	5.91	13	PASS
Band25	10MHz	16QAM	26365	50RB#0	6.27	13	PASS
Band25	10MHz	16QAM	26640	1RB#0	5.96	13	PASS
Band25	10MHz	16QAM	26640	50RB#0	6.25	13	PASS
Band25	15MHz	QPSK	26115	1RB#0	4.90	13	PASS



Band25	15MHz	QPSK	26115	75RB#0	5.77	13	PASS
Band25	15MHz	QPSK	26365	1RB#0	5.14	13	PASS
Band25	15MHz	QPSK	26365	75RB#0	5.88	13	PASS
Band25	15MHz	QPSK	26615	1RB#0	4.99	13	PASS
Band25	15MHz	QPSK	26615	75RB#0	5.82	13	PASS
Band25	15MHz	64QAM	26115	1RB#0	5.94	13	PASS
Band25	15MHz	64QAM	26115	75RB#0	6.50	13	PASS
Band25	15MHz	64QAM	26365	1RB#0	6.23	13	PASS
Band25	15MHz	64QAM	26365	75RB#0	6.56	13	PASS
Band25	15MHz	64QAM	26615	1RB#0	6.18	13	PASS
Band25	15MHz	64QAM	26615	75RB#0	6.50	13	PASS
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Band25	15MHz	256QAM	26115	75RB#0	6.77	13	PASS
Band25	15MHz	256QAM	26365	1RB#0	6.87	13	PASS
Band25	15MHz	256QAM	26365	75RB#0	6.79	13	PASS
Band25	15MHz	256QAM	26615	1RB#0	6.77	13	PASS
Band25	15MHz	256QAM	26615	75RB#0	6.78	13	PASS
Band25	15MHz	16QAM	26115	1RB#0	5.82	13	PASS
Band25	15MHz	16QAM	26115	75RB#0	6.34	13	PASS
Band25	15MHz	16QAM	26365	1RB#0	6.12	13	PASS
Band25	15MHz	16QAM	26365	75RB#0	6.44	13	PASS
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Band25	15MHz	16QAM	26615	75RB#0	6.38	13	PASS
Band25	20MHz	QPSK	26140	1RB#0	4.85	13	PASS
Band25	20MHz	QPSK	26140	100RB#0	5.58	13	PASS
Band25	20MHz	QPSK	26365	1RB#0	5.20	13	PASS
Band25	20MHz	QPSK	26365	100RB#0	5.64	13	PASS
Band25	20MHz	QPSK	26590	1RB#0	4.98	13	PASS
Band25	20MHz	QPSK	26590	100RB#0	5.58	13	PASS
Band25	20MHz	64QAM	26140	1RB#0	6.08	13	PASS
Band25	20MHz	64QAM	26140	100RB#0	6.55	13	PASS
Band25	20MHz	64QAM	26365	1RB#0	6.23	13	PASS
Band25	20MHz	64QAM	26365	100RB#0	6.57	13	PASS
Band25	20MHz	64QAM	26590	1RB#0	6.21	13	PASS
Band25	20MHz	64QAM	26590	100RB#0	6.48	13	PASS
Band25	20MHz	256QAM	26140	1RB#0	6.79	13	PASS
Band25	20MHz	256QAM	26140	100RB#0	6.78	13	PASS
Band25	20MHz	256QAM	26365	1RB#0	6.91	13	PASS
Band25	20MHz	256QAM	26365	100RB#0	6.75	13	PASS
Band25	20MHz	256QAM	26590	1RB#0	6.84	13	PASS
Band25	20MHz	256QAM	26590	100RB#0	6.72	13	PASS
Band25	20MHz	16QAM	26140	1RB#0	5.75	13	PASS
Band25	20MHz	16QAM	26140	100RB#0	6.34	13	PASS
Band25	20MHz	16QAM	26365	1RB#0	5.96	13	PASS
Band25	20MHz	16QAM	26365	100RB#0	6.39	13	PASS
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Band25	20MHz	16QAM	26590	100RB#0	6.34	13	PASS



Test Graphs



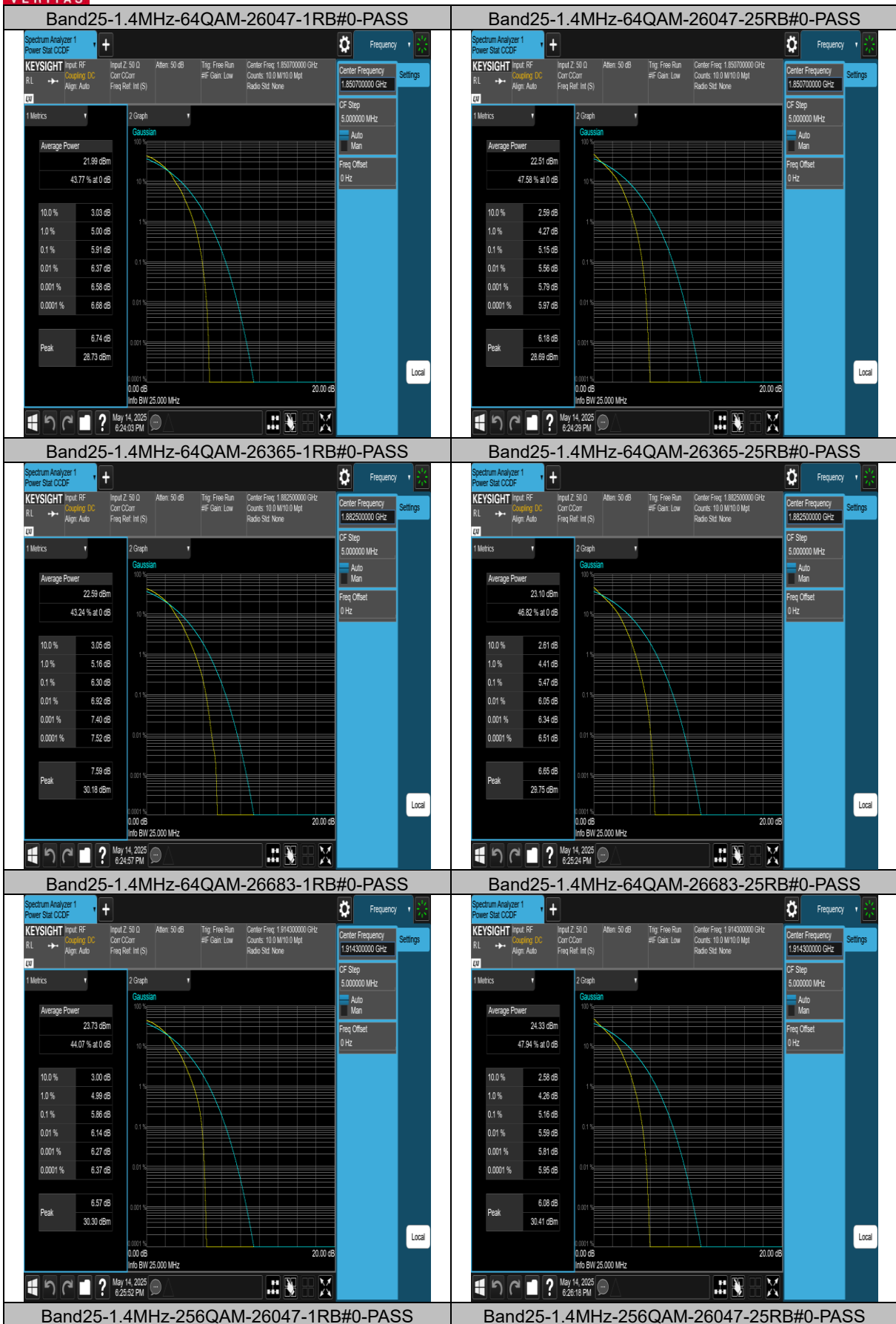
Huarui 7layers High Technology
(Suzhou) Co., Ltd.

Tower N, Innovation Center, 88 Zuyi Road, High-tech
District, Suzhou City, Anhui Province, China

Tel: +86 (0557) 368 1008

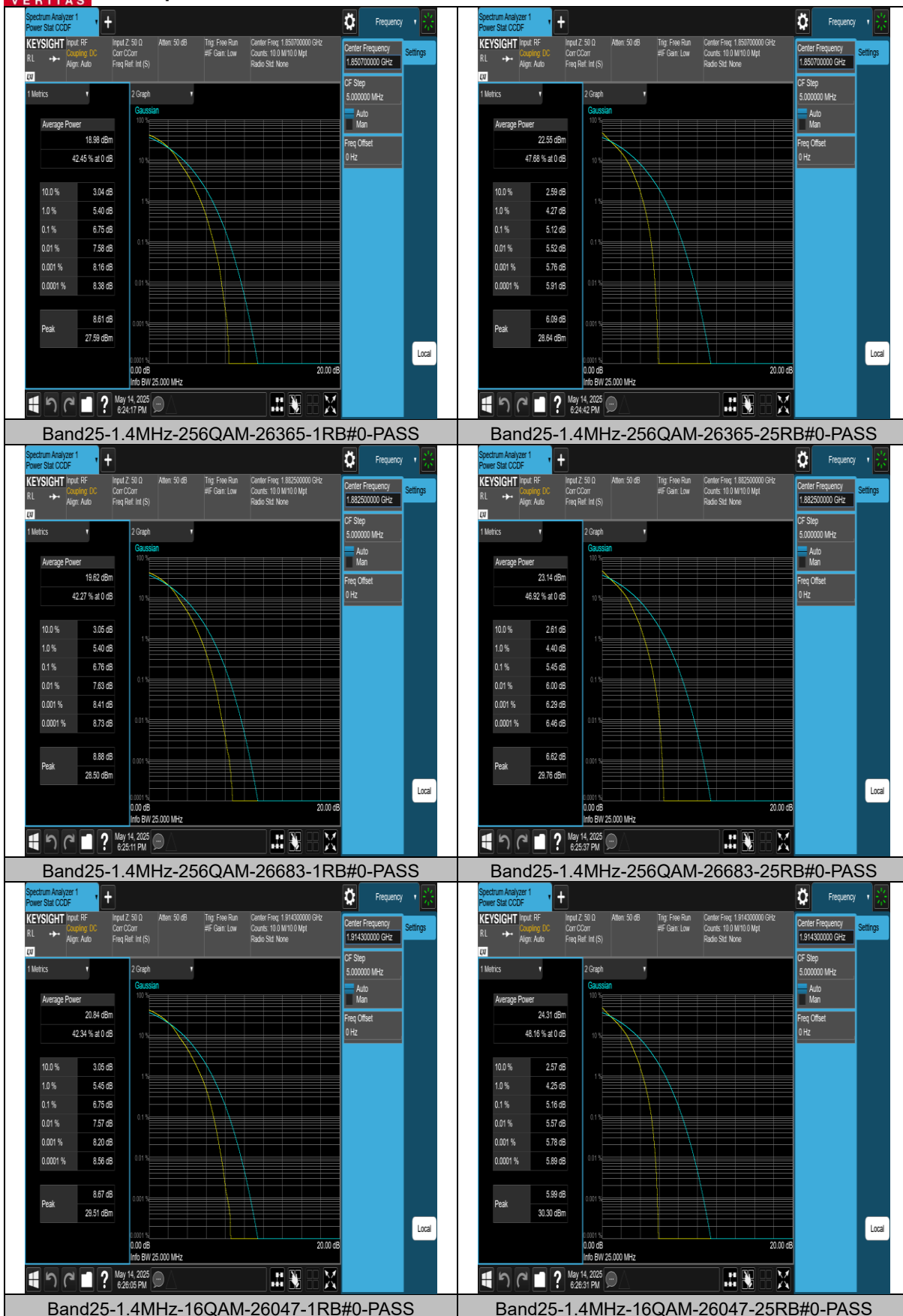


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Tower N, Innovation Center, 88 Zuyi Road, High-tech
District, Suzhou City, Anhui Province, China

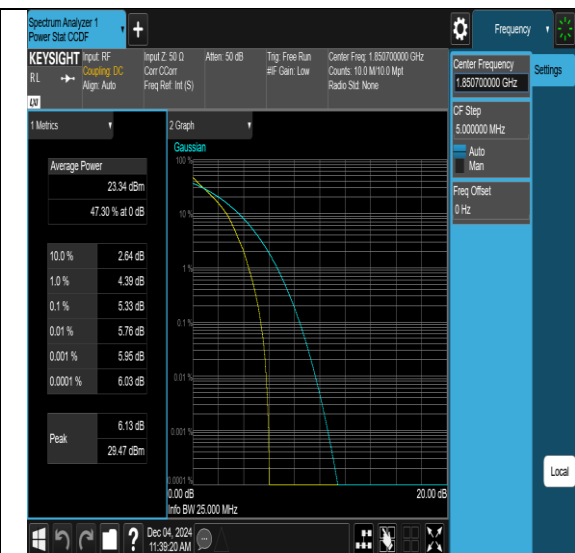
Tel: +86 (0557) 368 1008



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Band25-1.4MHz-16QAM-26365-1RB#0-PASS



Band25-1.4MHz-16QAM-26365-25RB#0-PASS



Band25-1.4MHz-16QAM-26683-1RB#0-PASS



Band25-1.4MHz-16QAM-26683-25RB#0-PASS



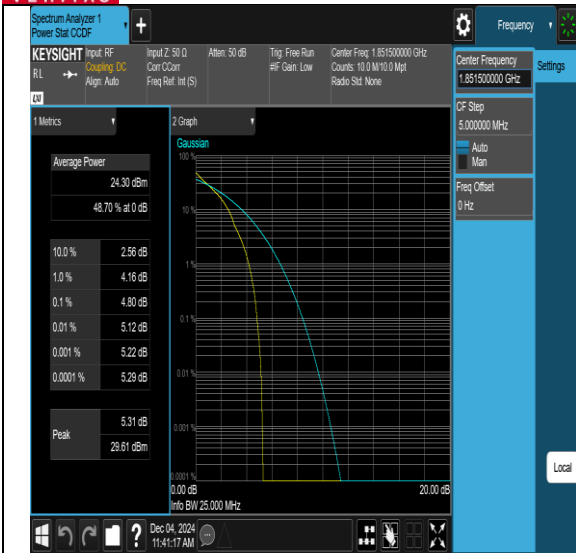
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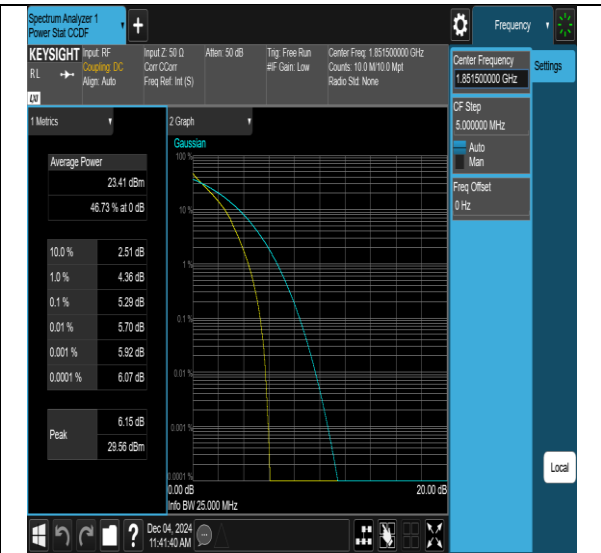
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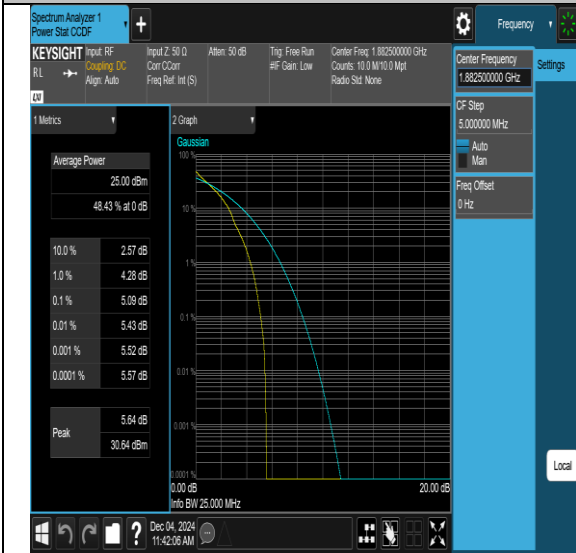
BUREAU VERITAS Test Report No.: PSU-QSU2411180418RF03



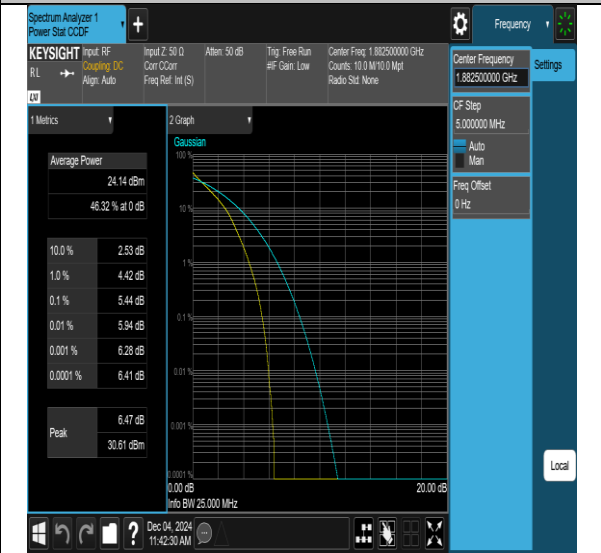
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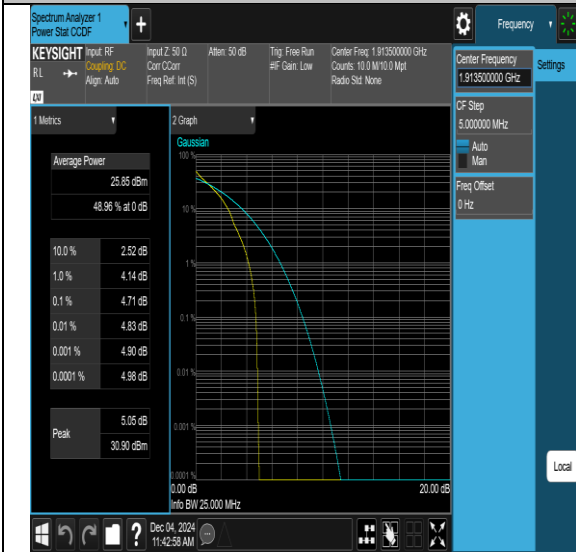
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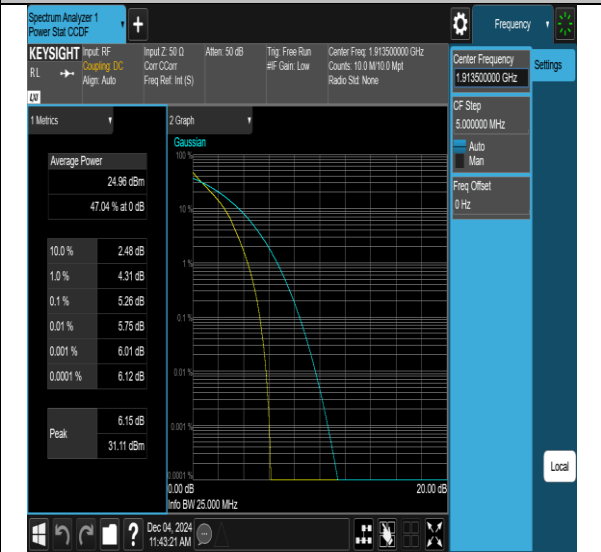
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Band25-3MHz-QPSK-26675-15RB#0-PASS



Band25-3MHz-64QAM-26055-1RB#0-PASS



Band25-3MHz-64QAM-26055-15RB#0-PASS



BUREAU VERITAS Test Report No.: PSU-QSU2411180418RF03



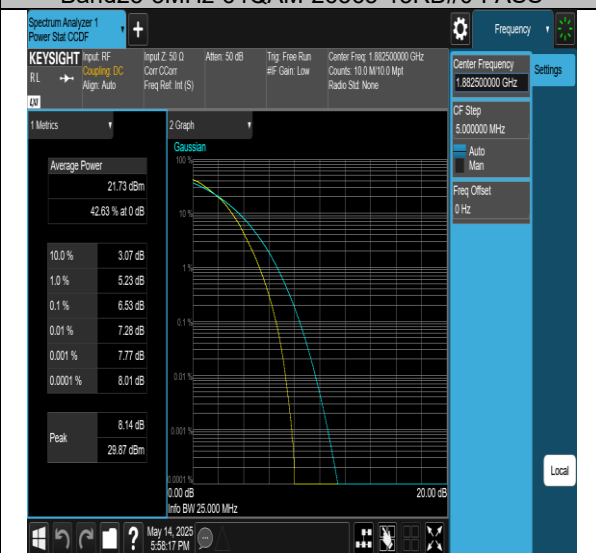
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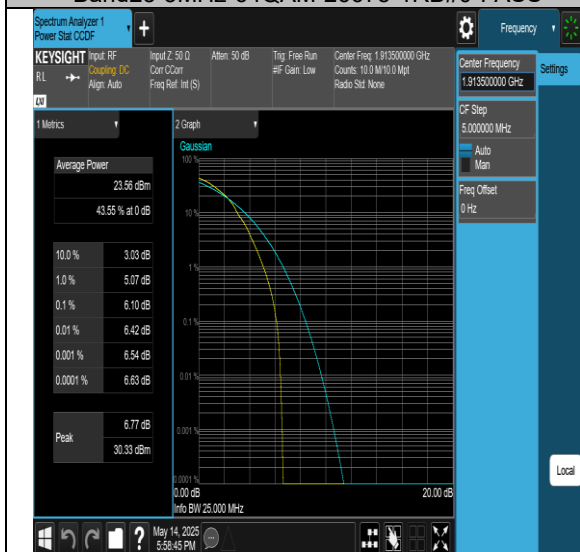
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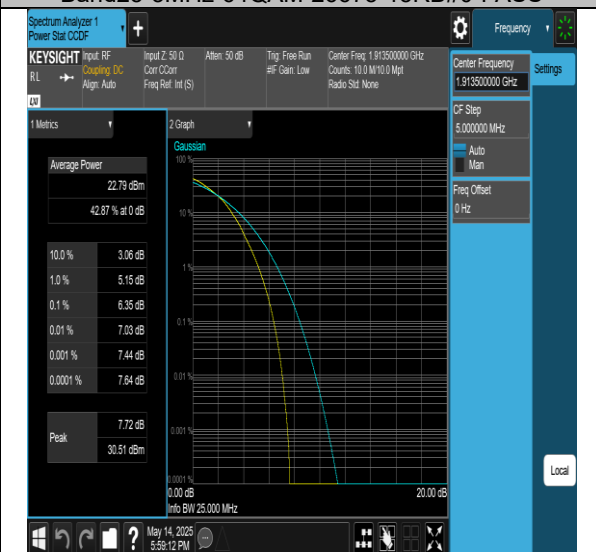
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Band25-3MHz-64QAM-26675-15RB#0-PASS



Band25-3MHz-256QAM-26055-1RB#0-PASS



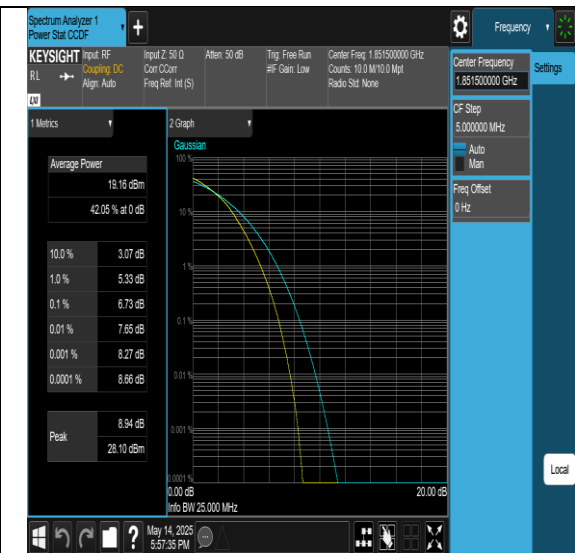
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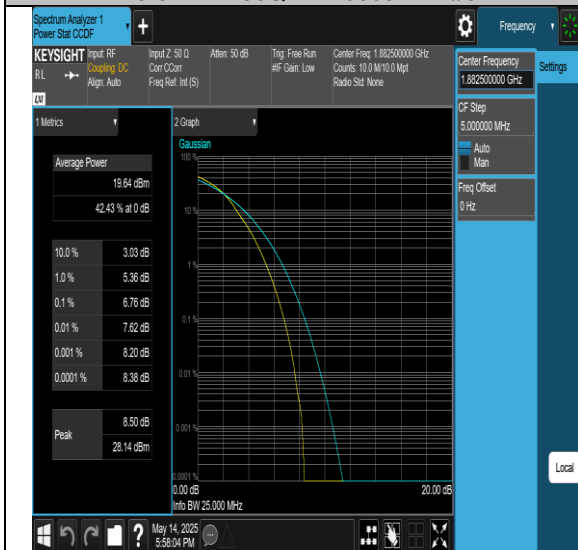
BUREAU VERITAS Test Report No.: PSU-QSU2411180418RF03



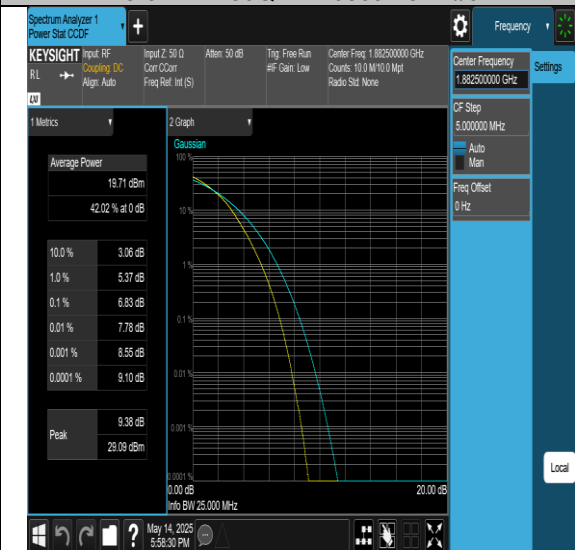
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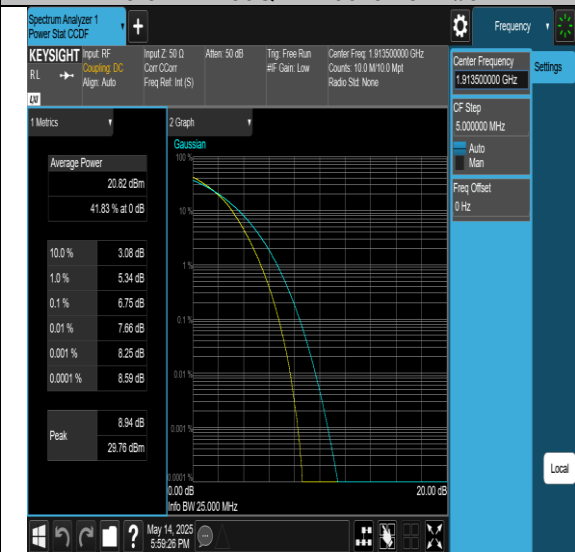
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BUREAU VERITAS Test Report No.: PSU-QSU2411180418RF03



Band25-3MHz-16QAM-26365-1RB#0-PASS



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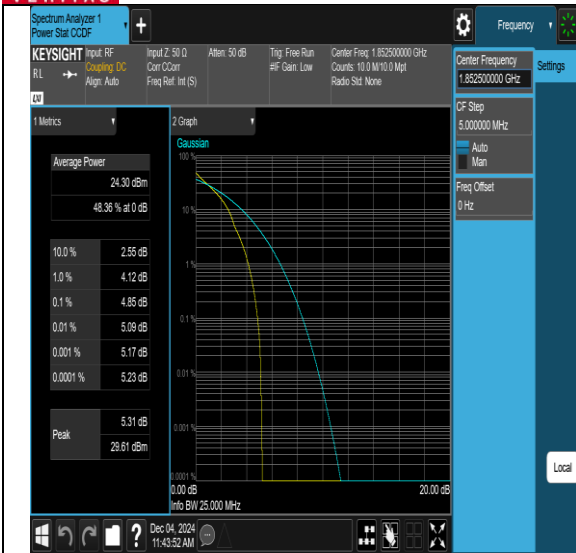
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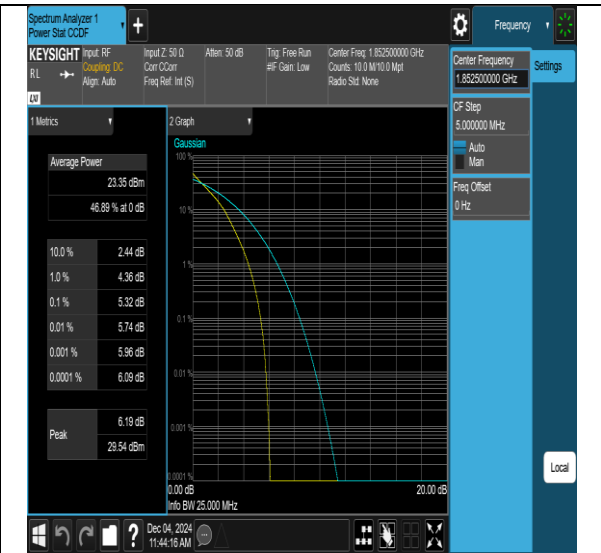
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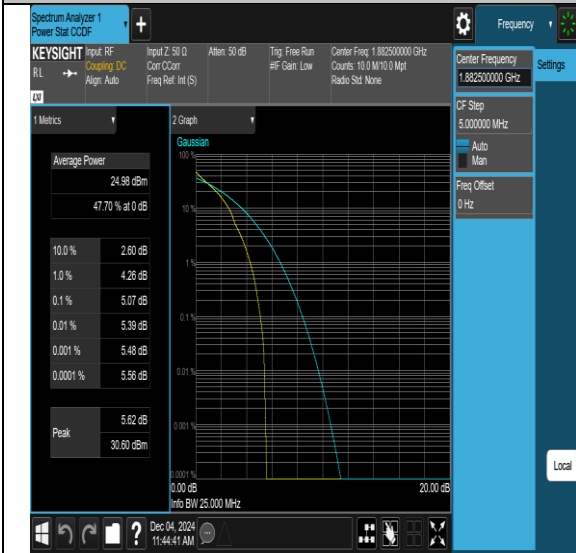
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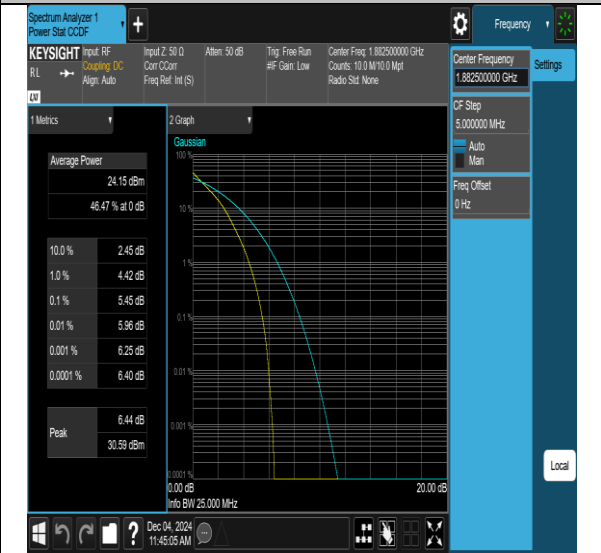
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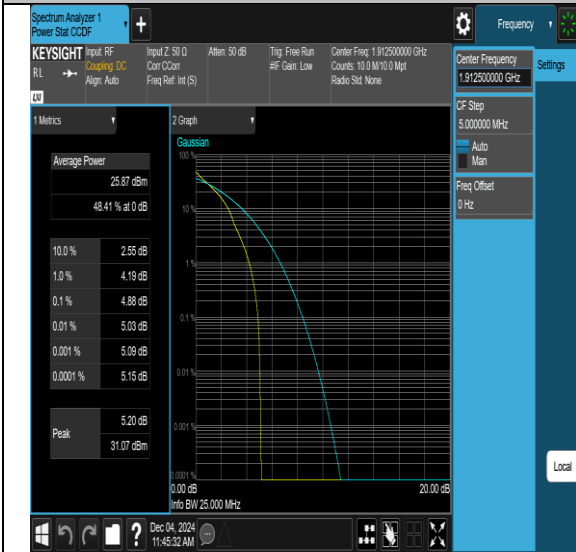
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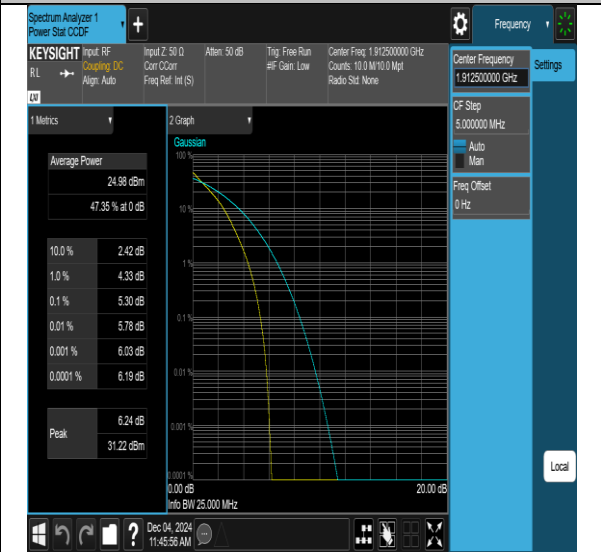
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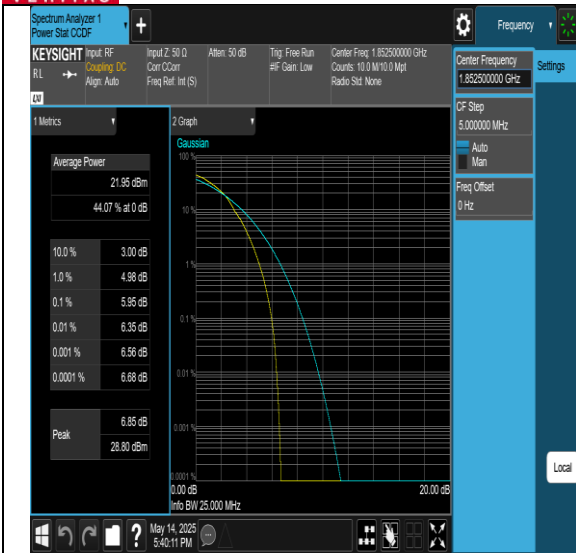
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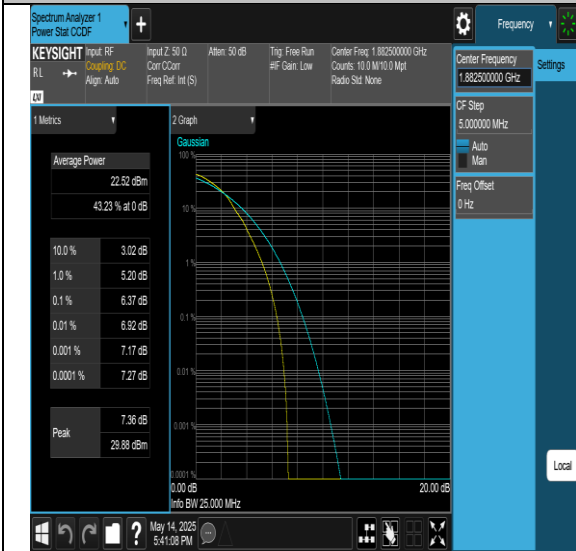
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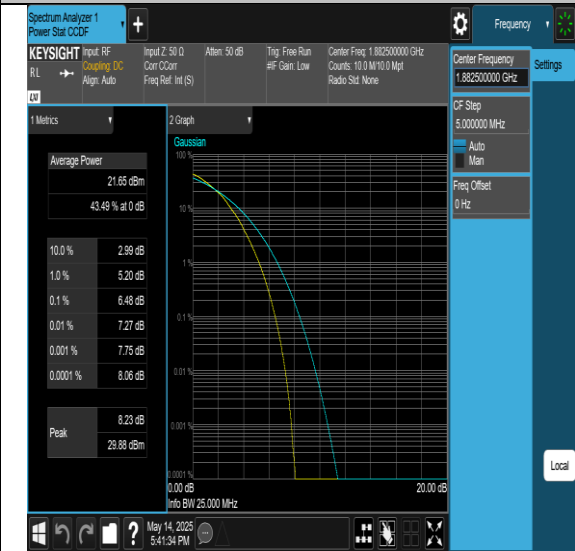
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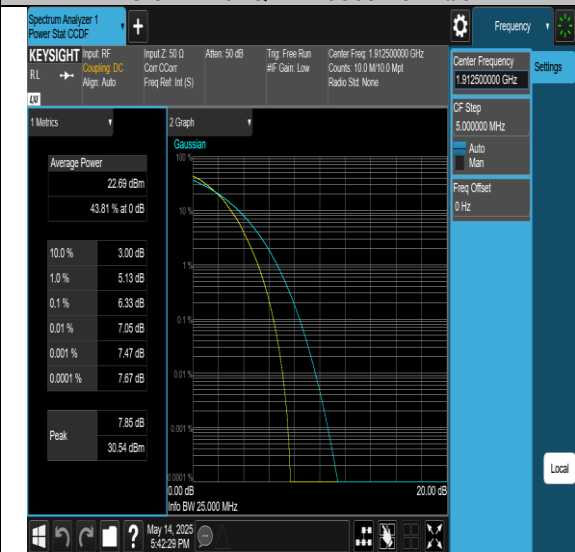
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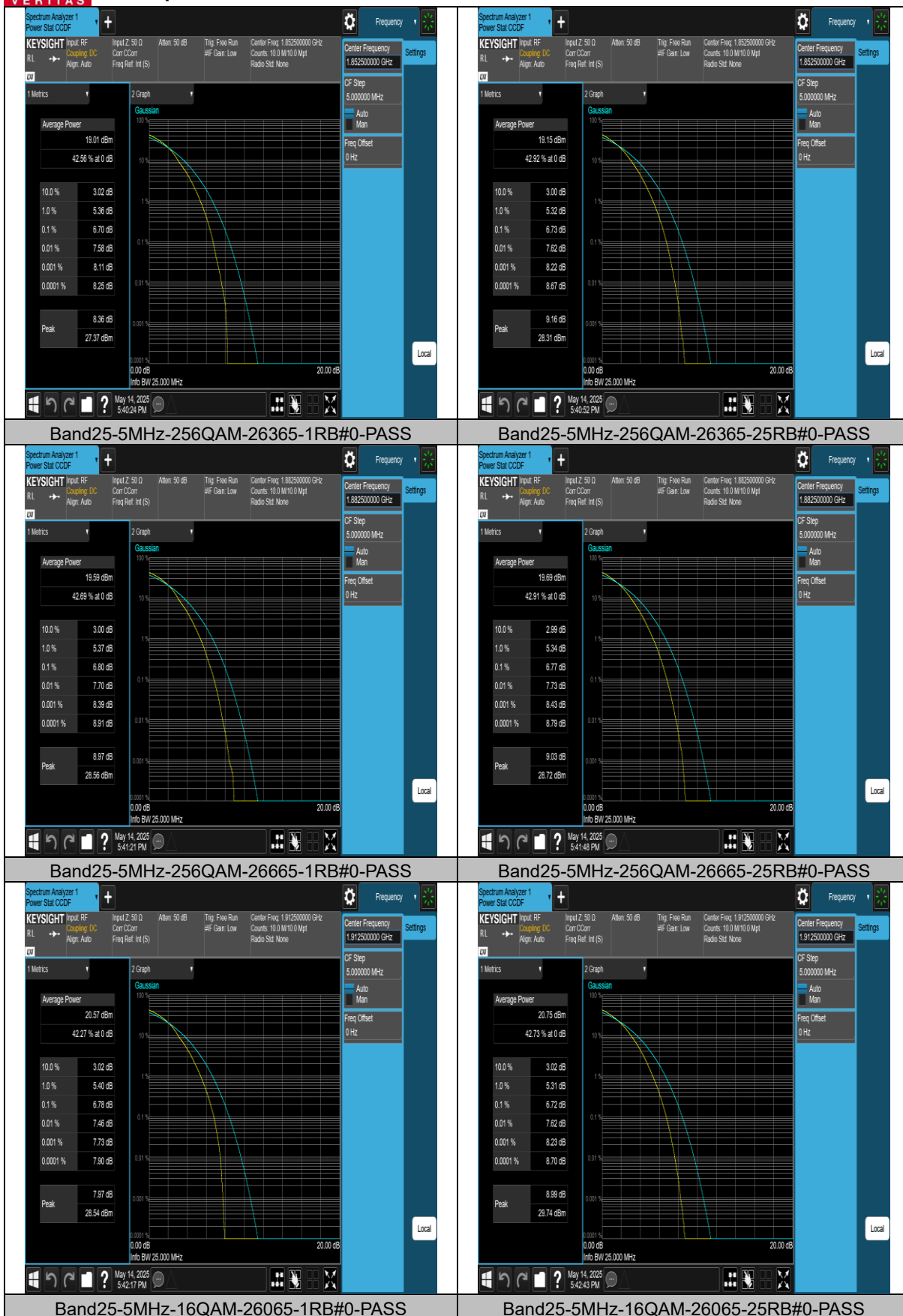
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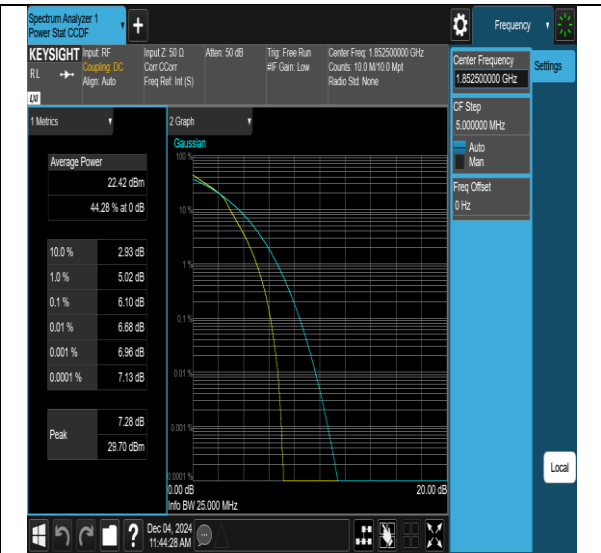
Tel: +86 (0557) 368 1008



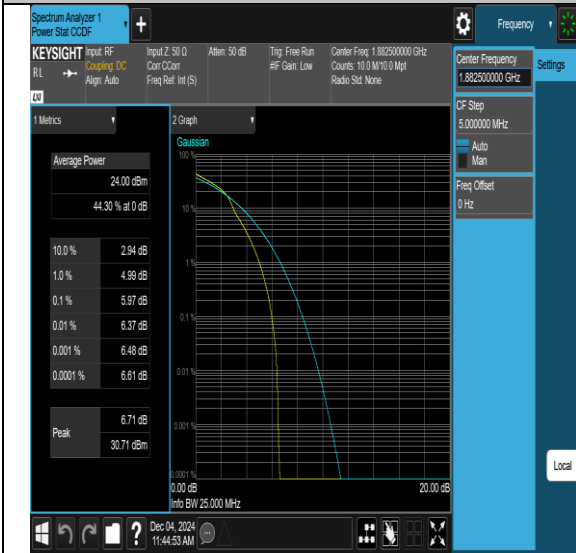
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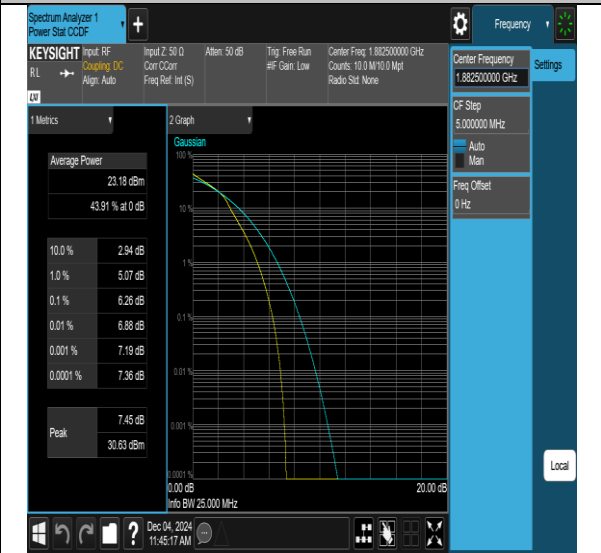
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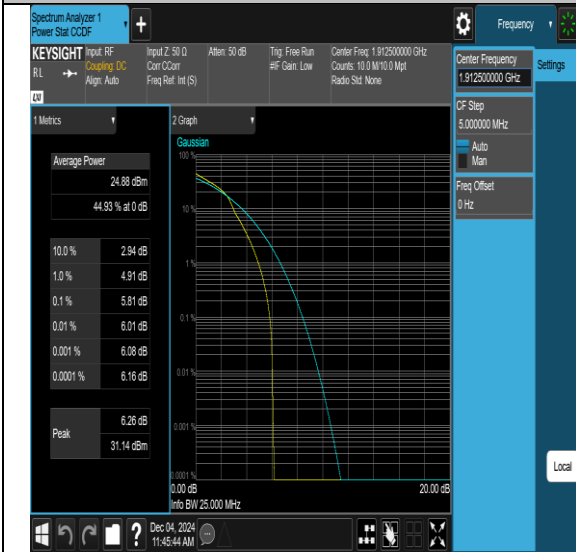
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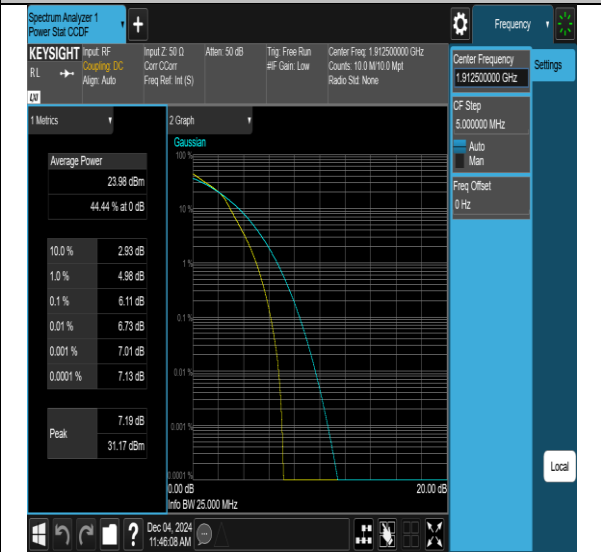
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