

Test Report

Report No.: MTi220105011-01E4

Date of issue: Jun. 06, 2022

Applicant: UP(Guangzhou)Electronics Co., Ltd.

Product name: +iAndroid Link smart iA box

Model(s): iA01F60AEUA, iA01F60ANA, iA01F60AW,
iA02F60AEUA, iA02F60ANA, iA02F60AW,
iA03F60AEUA, iA03F60ANA, iA03F60AW,
iA04F60AEUA, iA04F60ANA, iA04F60AW,
iA05F60AEUA, iA05F60ANA, iA05F60AW,
iA06F60AEUA, iA06F60ANA, iA06F60AW

FCC ID: 2A4GI-IA01F60AEUA

Shenzhen Microtest Co., Ltd.
<http://www.mtitest.com>

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TEST RESULT CERTIFICATION	
Applicant's name	UP(Guangzhou)Electronics Co., Ltd.
Address	2/F, Block 2, No. 13 Chaosheng Road, Jinghu Ave., Huadu Dist., Guangzhou, China
Manufacturer's Name	UP(Guangzhou)Electronics Co., Ltd.
Address	2/F, Block 2, No. 13 Chaosheng Road, Jinghu Ave., Huadu Dist., Guangzhou, China
Product description	
Product name	+iAndroid Link smart iA box
Trademark	N/A
Model Name	iA01F60AEUA
Serial Model	iA01F60ANA, iA01F60AW, iA02F60AEUA, iA02F60ANA, iA02F60AW, iA03F60AEUA, iA03F60ANA, iA03F60AW, iA04F60AEUA, iA04F60ANA, iA04F60AW, iA05F60AEUA, iA05F60ANA, iA05F60AW, iA06F60AEUA, iA06F60ANA, iA06F60AW
Standards	FCC Part 22 Subpart H FCC Part 24 Subpart E
Test procedure	FCC Part 2 ANSI/TIA-603-E-2016 ANSI C63.26:2015 KDB 971168 D01 Power Meas License Digital Systems v03r01
Date of Test	
Date (s) of performance of tests	2022-02-15 ~2022-05-30
Test Result	Pass
This device described above has been tested by Shenzhen Microtest Co., Ltd. and 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.	

Testing Engineer

:

Danny Xu

(Danny Xu)

Technical Manager

:

Leon Chen

(Leon Chen)

Authorized Signatory

:

Tom Xue

(Tom Xue)

1 General description

1.1 Feature of equipment under test (EUT)

Product name:	+iAndroid Link smart iA box
Trade name:	iA01F60AEUA
Model name:	iA01F60ANA, iA01F60AW, iA02F60AEUA, iA02F60ANA, iA02F60AW, iA03F60AEUA, iA03F60ANA, iA03F60AW, iA04F60AEUA, iA04F60ANA, iA04F60AW, iA05F60AEUA, iA05F60ANA, iA05F60AW, iA06F60AEUA, iA06F60ANA, iA06F60AW
Difference in series models:	All the models are the same circuit and RF module, except the model name and color.
Frequency range:	GSM850: TX824.2MHz~848.8MHz /RX869.2MHz~893.8MHz; PCS1900: TX1850.2MHz~1909.8MHz /RX1930.2MHz~1989.8MHz; WCDMA Band II: TX1852.4MHz~1907.6MHz RX1932.4MHz~1987.6MHz; WCDMA Band V: TX826.4MHz~846.6MHz RX871.4MHz~891.6MHz;
Modulation type:	GMSK for GSM/GPRS; 8PSK for EGPRS; QPSK for WCDMA bands;
Power class:	Multi-Class12 Only 4 timeslots are used for GPRS
SIM card:	The UBio Tablet5 has Two SIM Card socket
Antenna Type:	FPC Antenna
Antenna gain:	GSM 850 Gain: -4dBi GSM 1900 Gain: -2dBi WCDMA Band II: -2dBi WCDMA Band V: -4dBi
Bluetooth version:	V5.0
Hardware version:	V1.3
Software version:	103
Power supply:	Powered by adapter AC 120V/60Hz
Adapter information:	N/A
EUT serial number:	MTi220105011-01-S0001



1.2 Test frequency channel

Frequency Band	Frequency	Channel	Frequency(MHz)
GSM 850	Low	128	824.2
	Middle	190	836.6
	High	251	848.8
GSM 1900	Low	512	1850.2
	Middle	661	1880
	High	810	1909.8
WCDMA Band II	Low	9262	1852.4
	Middle	9400	1880
	High	9538	1907.6
WCDMA Band V	Low	4132	826.4
	Middle	4183	836.6
	High	4233	846.6

1.3 EUT operation mode

During testing, RF test program provided by the manufacture to control the Tx operation followed the test requirement. The EUT is configured to transmit continuously (duty cycle > 98 %) at the maximum power control level.

1.4 Ancillary equipment list

Equipment	Model	S/N	Manufacturer	Certificate type
Adapter	HW-090200C H0	/	Huizhou BYD Electronics Co., Ltd.	/



2 Summary of Test Result

Item	FCC Part No.	Description of Test	Result
1	2.1046, 22.913(a); 24.232(c)	Maximum output power	Pass
2	2.1046, 22.913(d); 24.232(d)	Peak to average power ratio(PAPR)	Pass
3	2.1046, 22.913(a); 24.232(c)	Transmitter Radiated Power (EIRP/ERP)	Pass
4	2.1049; 22.917(b); 24.238(b)	Occupied Bandwidth	Pass
5	2.1051; 22.917(a); 24.238(a)	Conducted spurious emissions	Pass
6	2.1051; 22.917(b); 24.238(b)	Spurious emissions at band edge	Pass
7	2.1053; 22.917(a); 24.238(a)	Radiated spurious emissions	Pass
8	2.1055; 22.355; 24.235	Frequency Stability	Pass



3 Test facilities and accreditations

3.1 Test laboratory

Test Laboratory	Shenzhen Microtest Co., Ltd
Location	101, No. 7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao' an District, Shenzhen, Guangdong, China.
FCC Registration No.:	448573

3.2 Environmental conditions

Temperature:	15°C~35°C
Humidity	20%~75%
Atmospheric pressure	98kPa~101kPa

3.3 Measurement uncertainty

Measurement Uncertainty for a Level of Confidence of 95 %, $U=2 \times U_c(y)$

RF frequency	1×10^{-7}
RF power, conducted	± 1 dB
Conducted emission(150kHz~30MHz)	± 2.5 dB
Radiated emission(30MHz~1GHz)	± 4.2 dB
Radiated emission (above 1GHz)	± 4.3 dB
Temperature	± 1 degree
Humidity	± 5 %

3.4 Test software

Software Name	Manufacturer	Model	Version
GSM	Shenzhen JS tonscent co., ltd	JS1120-4	2.1.6
WCDMA	Shenzhen JS tonscent co., ltd	JS1120-2	2.1.5.10



4 List of test equipment

Equipment No.	Equipment Name	Manufacturer	Model	Serial No.	Calibration date	Due date
MTI-E043	EMI Test Receiver	Rohde&schwarz	ESCI7	101166	2021/06/02	2022/06/01
MTI-E044	TRILOG Broadband Antenna	schwarzbeck	VULB 9163	9163-1338	2021/05/30	2023/05/29
MTI-E047	Amplifier	Hewlett-Packard	8447F	3113A06150	2021/06/02	2022/06/01
MTI-E089	ESG Vector Signal Generator	Agilent	N5182A	MY49060455	2021/06/02	2022/06/01
MTI-E058	ESG Series Analog Signal Generator	Agilent	E4421B	GB40051240	2021/06/02	2022/06/01
MTI-E062	PXA Signal Analyzer	Agilent	N9030A	MY51350296	2021/06/02	2022/06/01
MTI-E066	MXA Signal Analyzer	Agilent	N9020A	MY50143483	2021/06/02	2022/06/01
MTI-E078	Synthesized Sweeper	Agilent	83752A	3610A01957	2021/06/02	2022/06/01
MTI-E079	DC Power Supply	Agilent	E3632A	MY40027695	2021/06/02	2022/06/01
MTI-E045	Double Ridged Broadband Horn Antenna	schwarzbeck	BBHA 9120D	9120D-2278	2021/05/30	2023/05/29
MTI-E021	EMI Test Receiver	Rohde&schwarz	ESCS30	100210	2021/06/02	2022/06/01
MTI-E022	Pulse Limiter	Schwarzbeck	VSTD 9561-F	00679	2021/06/02	2022/06/01
MTI-E023	Artificial mains network	Schwarzbeck	NSLK 8127	NSLK 8127 #841	2021/06/02	2022/06/01
MTI-E046	Active Loop Antenna	Schwarzbeck	FMZB 1519B	00044	2021/05/30	2023/05/29
MTI-E048	Amplifier	Agilent	8449B	3008A02400	2021/06/02	2022/06/01
MTI-E072	Thermometer Clock Humidity Monitor	-	HTC-1	/	2021/06/02	2022/06/01
MTI-E057	Wideband Radio Communication Tester	Rohde&schwarz	CMW500	149155	2021/06/02	2022/06/01
Note: the calibration interval of the above test instruments is 12 or 24 months and the calibrations are traceable to international system unit (SI).						

5 Test Result

5.1 Maximum output power and EIRP & ERP

5.1.1 Limit

For FCC 22.913: The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

For FCC 24.234: Mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13dB.

5.1.2 Test method

For Conducted output power:

1. Use a universal radio communication tester, the output power of EUT was measured at the antenna terminal. The path loss was calibrated and entered as an offset into the test equipment.
2. The EUT was configured to transmit on maximum power by the radio communication tester.
3. Measured the peak and average powers.



5.1.3 Test Result

For Conducted output power:

Band	Channel	Slot	Power(dBm)	Limit(dBm)	Verdict
GPRS850	128	1	30.92	38.5	PASS
		2	29.88		
		3	27.64		
		4	26.78		
	190	1	30.92		
		2	29.50		
		3	27.00		
		4	26.21		
	251	1	30.77		
		2	29.03		
		3	26.80		
		4	25.71		
GPRS1900	512	1	30.58	33	PASS
		2	29.51		
		3	27.05		
		4	25.59		
	661	1	30.60		
		2	28.46		
		3	26.73		
		4	24.70		
	810	1	29.05		
		2	28.29		
		3	26.44		
		4	24.90		



Band	Channel	Slot	Power(dBm)	Limit(dBm)	Verdict
EGPRS850	128	1	31.03	38.5	PASS
		2	29.98		
		3	27.54		
		4	26.85		
	190	1	30.89		
		2	29.49		
		3	27.03		
		4	26.22		
	251	1	31.18		
		2	29.10		
		3	26.83		
		4	25.93		
EGPRS1900	512	1	30.46	33	PASS
		2	29.01		
		3	26.98		
		4	25.40		
	661	1	31.07		
		2	28.57		
		3	25.71		
		4	24.19		
	810	1	30.43		
		2	28.38		
		3	25.58		
		4	24.71		

RMC 12.2kbps.

Band	Channel	Power(dBm)	Limit(dBm)	Verdict
Band II	9262	22.23	33	PASS
	9400	22.15		
	9538	22.52		
Band V	4132	22.05	38.5	PASS
	4182	21.51		
	4233	21.73		

HSDPA:

Band	Channel	SubTest	Power(dBm)	Limit(dBm)	Verdict
Band II	9262	HSDPA_Sub1	19.48	33	PASS
		HSDPA_Sub2	19.02		
		HSDPA_Sub3	18.98		
		HSDPA_Sub4	19.02		
	9400	HSDPA_Sub1	20.65		
		HSDPA_Sub2	20.17		
		HSDPA_Sub3	20.15		
		HSDPA_Sub4	20.16		
	9538	HSDPA_Sub1	20.52		
		HSDPA_Sub2	20.03		
		HSDPA_Sub3	20.01		
		HSDPA_Sub4	20.00		
Band V	4132	HSDPA_Sub1	16.65	38.5	PASS
		HSDPA_Sub2	16.21		
		HSDPA_Sub3	16.16		
		HSDPA_Sub4	16.17		
	4182	HSDPA_Sub1	17.51		
		HSDPA_Sub2	17.08		
		HSDPA_Sub3	16.98		
		HSDPA_Sub4	17.12		
	4233	HSDPA_Sub1	18.73		
		HSDPA_Sub2	18.36		
		HSDPA_Sub3	18.24		
		HSDPA_Sub4	18.28		

HSUPA:

Band	Channel	SubTest	Power(dBm)	Limit(dBm)	Verdict
Band II	9262	HSUPA_Sub1	19.52	33	PASS
		HSUPA_Sub2	19.10		
		HSUPA_Sub3	19.80		
		HSUPA_Sub4	17.82		
		HSUPA_Sub5	17.51		
	9400	HSUPA_Sub1	19.49		
		HSUPA_Sub2	20.59		
		HSUPA_Sub3	19.15		
		HSUPA_Sub4	18.79		
		HSUPA_Sub5	18.13		
	9538	HSUPA_Sub1	18.59		
		HSUPA_Sub2	20.75		
		HSUPA_Sub3	20.56		
		HSUPA_Sub4	18.80		
		HSUPA_Sub5	18.51		
Band V	4132	HSUPA_Sub1	18.52	38.5	PASS
		HSUPA_Sub2	18.60		
		HSUPA_Sub3	20.39		
		HSUPA_Sub4	17.32		
		HSUPA_Sub5	17.26		
	4182	HSUPA_Sub1	17.90		
		HSUPA_Sub2	17.55		
		HSUPA_Sub3	19.35		
		HSUPA_Sub4	17.00		
		HSUPA_Sub5	16.69		
	4233	HSUPA_Sub1	18.51		
		HSUPA_Sub2	17.17		
		HSUPA_Sub3	19.96		
		HSUPA_Sub4	16.78		
		HSUPA_Sub5	16.38		

For EIRP & ERP:

LIMIT

WCDMA Band V: 7W (38.45dBm) ERP

WCDMA Band II: 2W (33dBm) EIRP

TEST PROCEDURE

1. According to the power tested in section 5.1, select the maximum power in each mode, and use the following formula to calculate the corresponding ERP/EIRP.

2. ERP = conducted power + Gain(dBd)

3. EIRP = conducted power + Gain(dBi)

Band	Mode	Conducted Power (dBm)	Antenna Gain	EIRP	EIRP	Verdict
			(dB)	(dBm)	(W)	
GSM 850	GPRS	30.92	-4	26.92	0.492	PASS
	EGPRS	31.18	-4	27.18	0.522	PASS

Band	Mode	Conducted Power (dBm)	Antenna Gain	EIRP	EIRP	Verdict
			(dB)	(dBm)	(W)	
GSM 1900	GPRS	30.60	-2	28.60	0.724	PASS
	EGPRS	31.07	-2	29.07	0.807	PASS

Band	Mode	Conducted Power (dBm)	Antenna Gain	EIRP	EIRP	Verdict
			(dB)	(dBm)	(W)	
Band II	RMC 12.2kbps	22.52	-2	20.52	0.113	PASS
	HSDPA	20.65	-2	18.65	0.073	PASS
	HSUPA	20.75	-2	18.75	0.075	PASS

Band	Mode	Conducted Power (dBm)	Antenna Gain	EIRP	EIRP	Verdict
			(dB)	(dBm)	(W)	
Band V	RMC 12.2kbps	22.05	-4	18.05	0.064	PASS
	HSDPA	18.73	-4	14.73	0.030	PASS
	HSUPA	20.39	-4	16.39	0.044	PASS



5.2 Peak to average power ratio (PAPR)

5.2.1 Limit

The peak-to-average power ratio (PAPR) of the transmitter output power must not exceed 13 dB. The PAPR measurements should be made using either an instrument with complementary cumulative distribution function (CCDF) capabilities to determine that PAPR will not exceed 13 dB for more than 0.1 percent of the time or other Commission approved procedure. The measurement must be performed using a signal corresponding to the highest PAPR expected during periods of continuous transmission.

5.2.2 Test method

The EUT was connected to Spectrum Analyzer and Base Station via power divider.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.

Set the number of counts to a value that stabilizes the measured CCDF curve.

Set the measurement interval to 1 ms.

Record the maximum PAPR level associated with a probability of 0.1%.

- a) Refer to instrument's analyzer instruction manual for details on how to use the power statistics/CCDF function;
- b) Set resolution/measurement bandwidth $\geq$ signal's occupied bandwidth;
- c) Set the number of counts to a value that stabilizes the measured CCDF curve;
- d) Set the measurement interval as follows:
 - 1) for continuous transmissions, set to 1 ms,
 - 2) for burst transmissions, employ an external trigger that is synchronized with the EUT burst timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize and set the measurement interval to a time that is less than or equal to the burst duration.
- e) Record the maximum PAPR level associated with a probability of 0.1%.



5.2.3 Test Result

GPRS						
Modes	GPRS850			GPRS1900		
Channel	128 (Low)	190 (Mid)	251 (High)	512 (Low)	661 (Mid)	810 (High)
Frequency(MHz)	824.2	836.6	848.8	1850.2	1880	1909.8
Peak-to-Average Ratio(dB)	2.63	2.65	2.64	0.54	2.74	2.76

EGPRS						
Modes	EGPRS850			EGPRS1900		
Channel	128 (Low)	190 (Mid)	251 (High)	512 (Low)	661 (Mid)	810 (High)
Frequency(MHz)	824.2	836.6	848.8	1850.2	1880	1909.8
Peak-to-Average Ratio(dB)	3.85	3.90	3.89	4.55	2.75	4.95

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9262	3.22	13	PASS
Band2	9400	3.17	13	PASS
Band2	9538	3.22	13	PASS
Band5	4132	2.75	13	PASS
Band5	4183	2.99	13	PASS
Band5	4233	2.94	13	PASS

Band	Channel	SubTest	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9262	1	3.31	13	PASS
Band2	9262	2	3.82	13	PASS
Band2	9262	3	4	13	PASS
Band2	9262	4	4.05	13	PASS
Band2	9400	1	3.25	13	PASS
Band2	9400	2	3.75	13	PASS
Band2	9400	3	3.94	13	PASS
Band2	9400	4	3.98	13	PASS
Band2	9538	1	3.29	13	PASS
Band2	9538	2	3.88	13	PASS
Band2	9538	3	4.07	13	PASS
Band2	9538	4	4.12	13	PASS
Band5	4132	1	2.96	13	PASS
Band5	4132	2	3.56	13	PASS
Band5	4132	3	3.75	13	PASS
Band5	4132	4	3.82	13	PASS
Band5	4183	1	3.06	13	PASS
Band5	4183	2	3.68	13	PASS
Band5	4183	3	3.89	13	PASS
Band5	4183	4	3.93	13	PASS
Band5	4233	1	3.05	13	PASS
Band5	4233	2	3.79	13	PASS
Band5	4233	3	3.97	13	PASS
Band5	4233	4	4.04	13	PASS

Band	Channel	SubTest	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9262	1	4.58	13	PASS
Band2	9262	2	5.72	13	PASS
Band2	9262	3	5.3	13	PASS
Band2	9262	4	5.69	13	PASS
Band2	9262	5	4.43	13	PASS
Band2	9400	1	4.75	13	PASS
Band2	9400	2	3.29	13	PASS
Band2	9400	3	3.94	13	PASS
Band2	9400	4	3.17	13	PASS
Band2	9400	5	4.78	13	PASS
Band2	9538	1	4.91	13	PASS
Band2	9538	2	3.33	13	PASS
Band2	9538	3	4.02	13	PASS
Band2	9538	4	3.19	13	PASS
Band2	9538	5	4.77	13	PASS
Band5	4132	1	4.19	13	PASS
Band5	4132	2	5.21	13	PASS
Band5	4132	3	4.77	13	PASS
Band5	4132	4	5.24	13	PASS
Band5	4132	5	3.89	13	PASS
Band5	4183	1	4.81	13	PASS



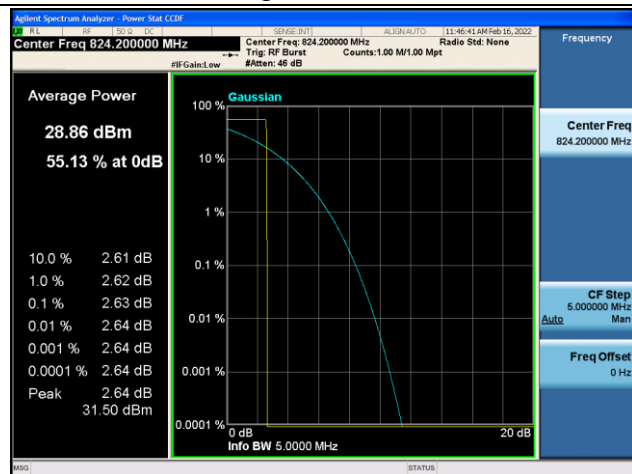
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Band5	4233	1	6.92	13	PASS
Band5	4233	2	3.38	13	PASS
Band5	4233	3	4.09	13	PASS
Band5	4233	4	3.1	13	PASS
Band5	4233	5	4.6	13	PASS



Test plot

(GPRS850)

Peak-to-Average Ratio on channel 128



(GPRS1900)

Peak-to-Average Ratio on channel 512



Peak-to-Average Ratio on channel 190



Peak-to-Average Ratio on channel 661



Peak-to-Average Ratio on channel 251



Peak-to-Average Ratio on channel 810





Test plot

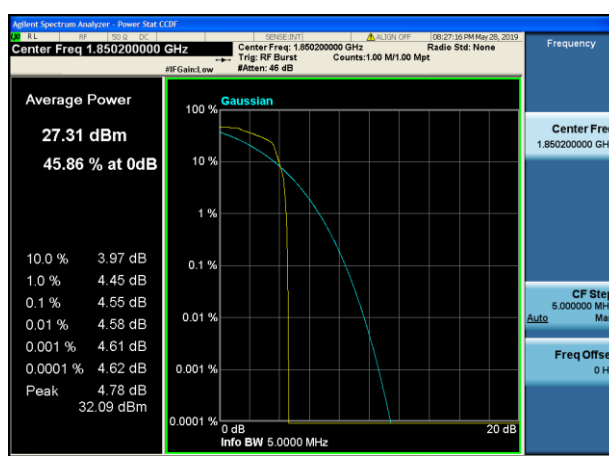
(EGPRS850)

Peak-to-Average Ratio on channel 128



(EGPRS1900)

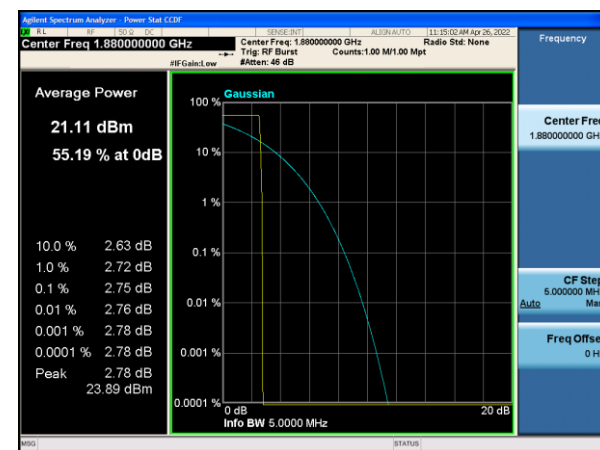
Peak-to-Average Ratio on channel 512



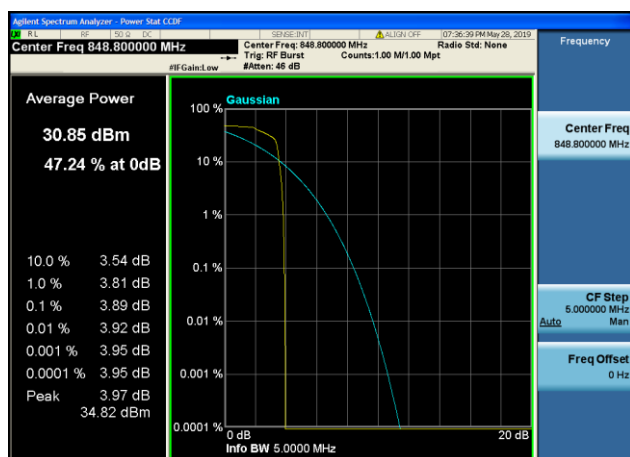
Peak-to-Average Ratio on channel 190



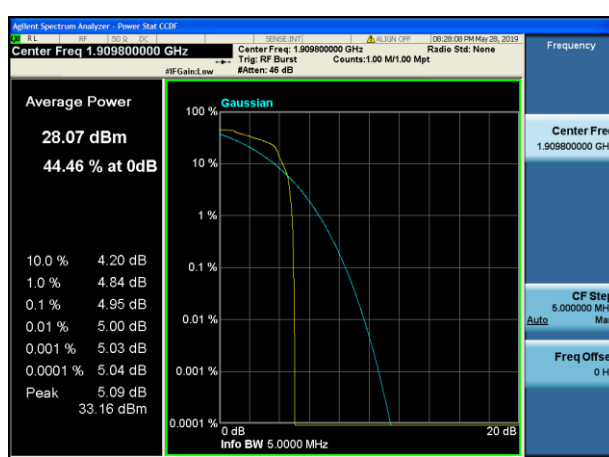
Peak-to-Average Ratio on channel 661



Peak-to-Average Ratio on channel 251

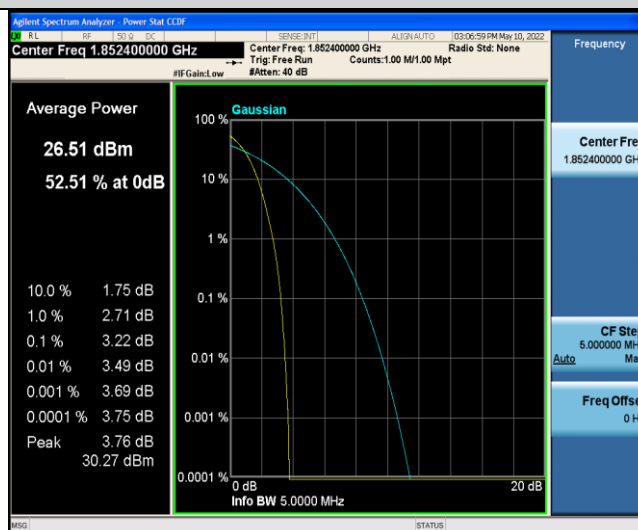


Peak-to-Average Ratio on channel 810

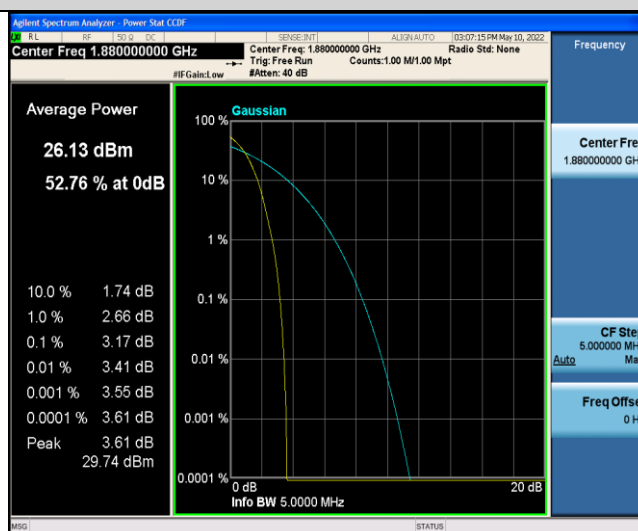




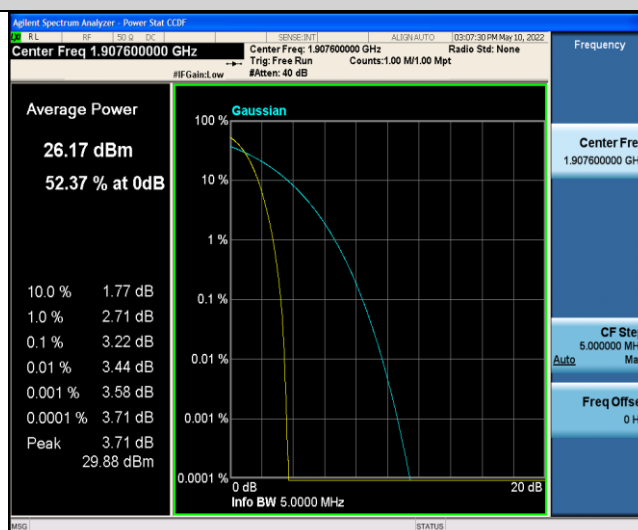
Band2-9262



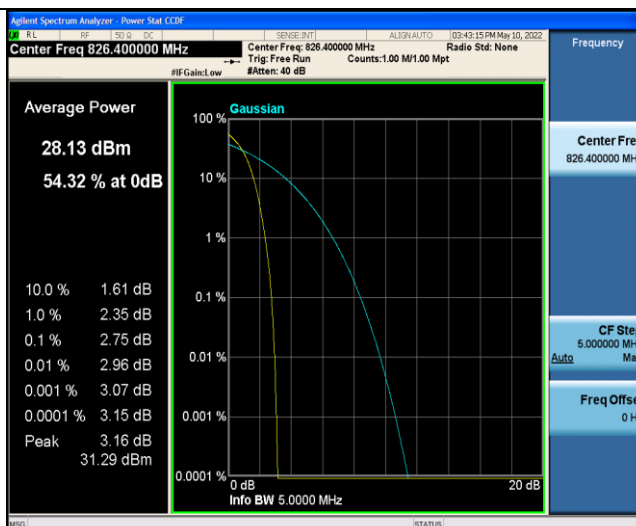
Band2-9400



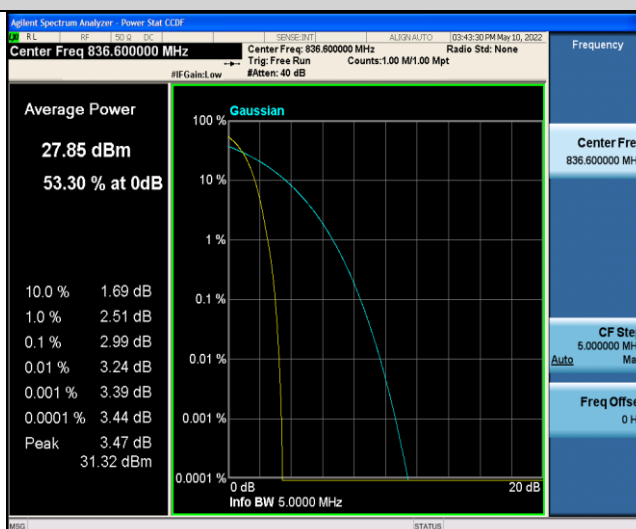
Band2-9538



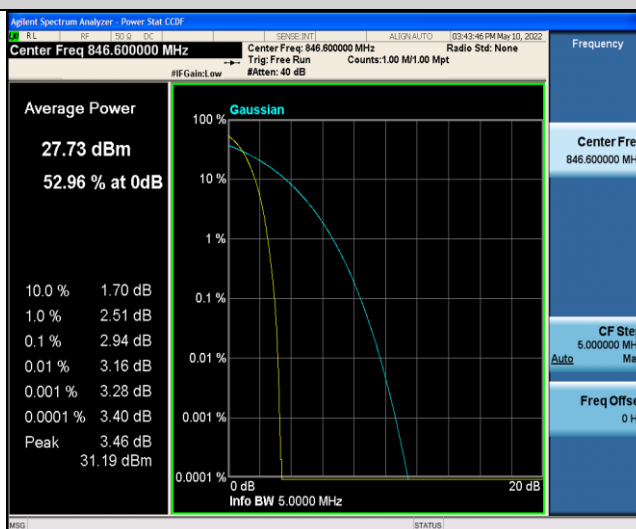
Band5-4132



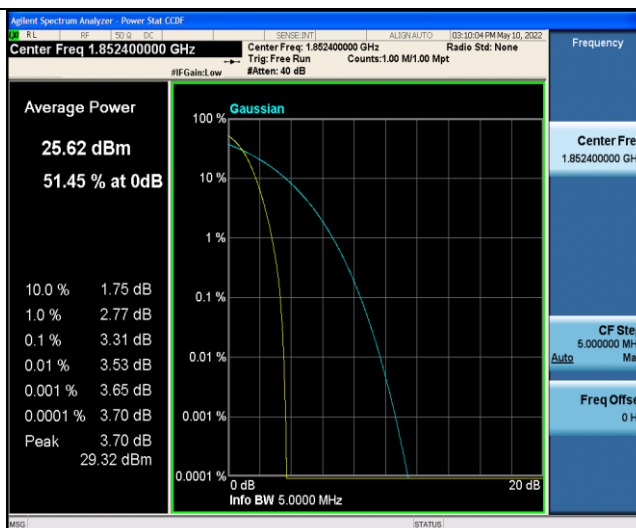
Band5-4183



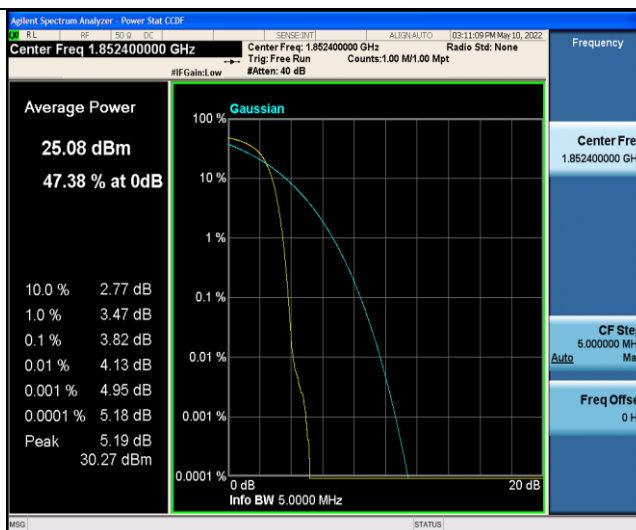
Band5-4233



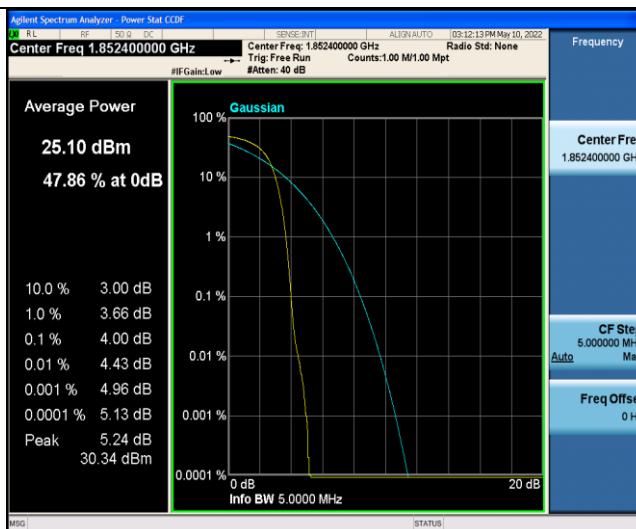
Band2-9262-1



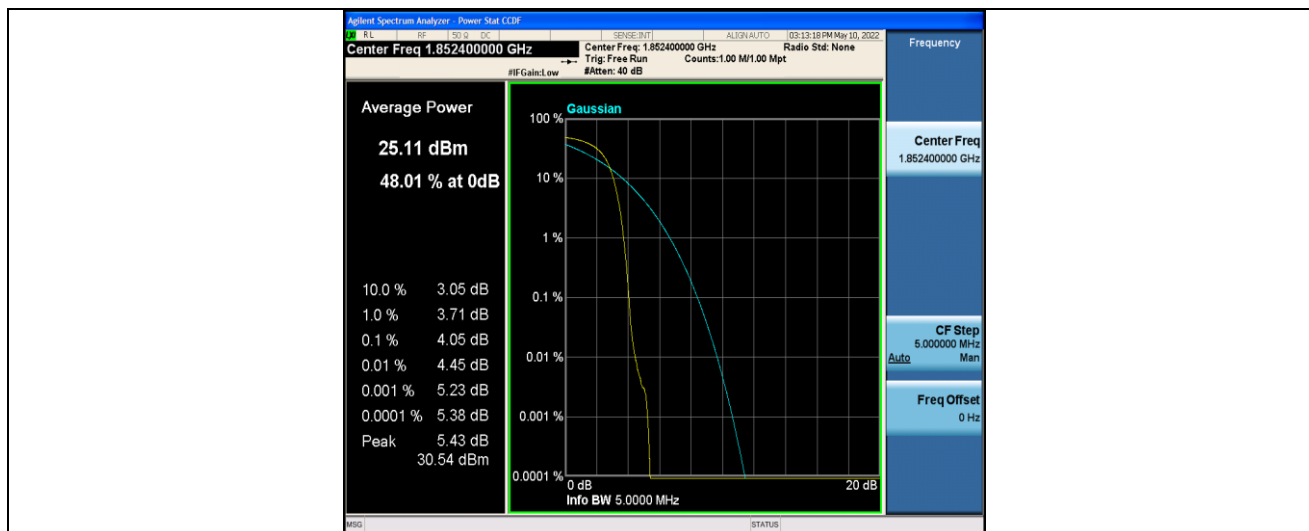
Band2-9262-2



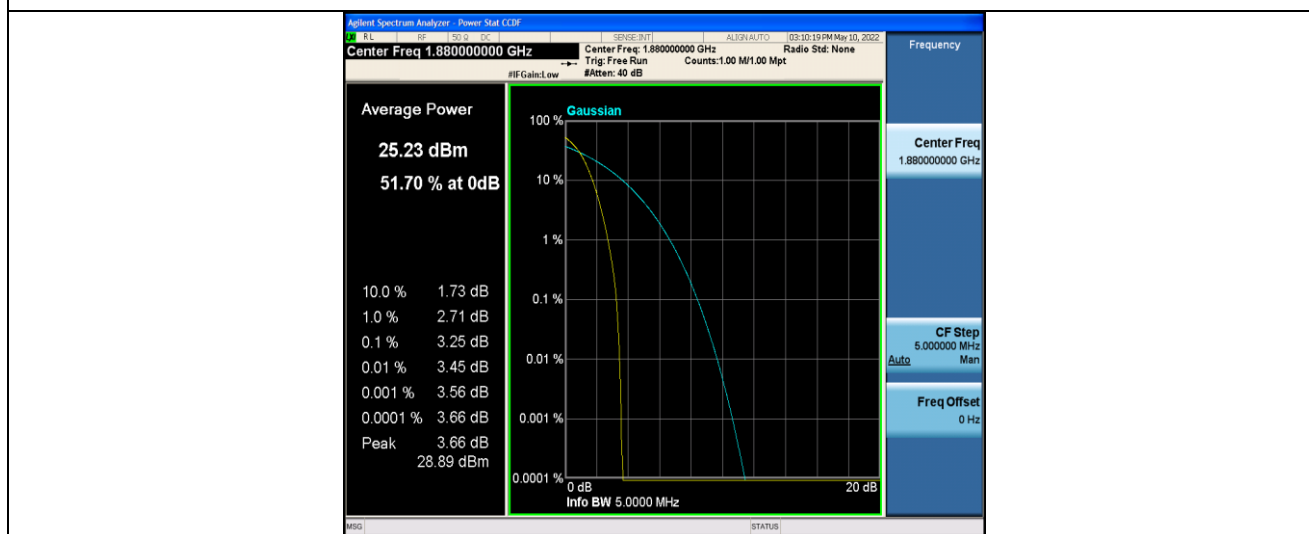
Band2-9262-3



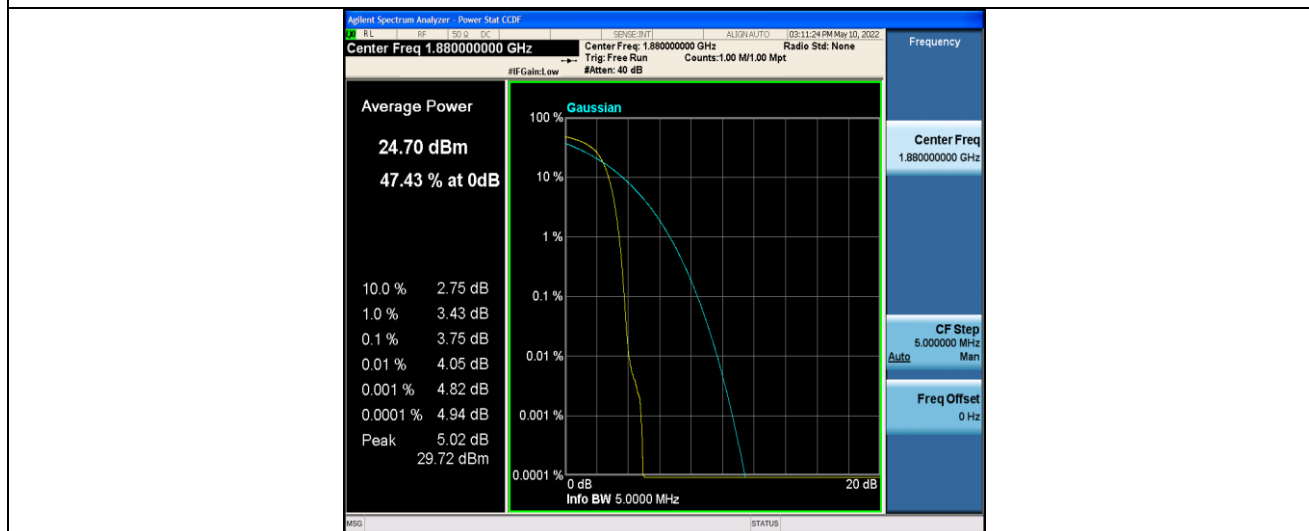
Band2-9262-4



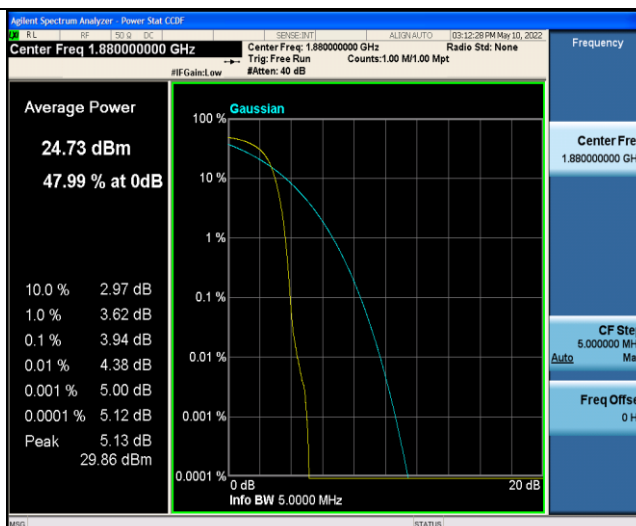
Band2-9400-1



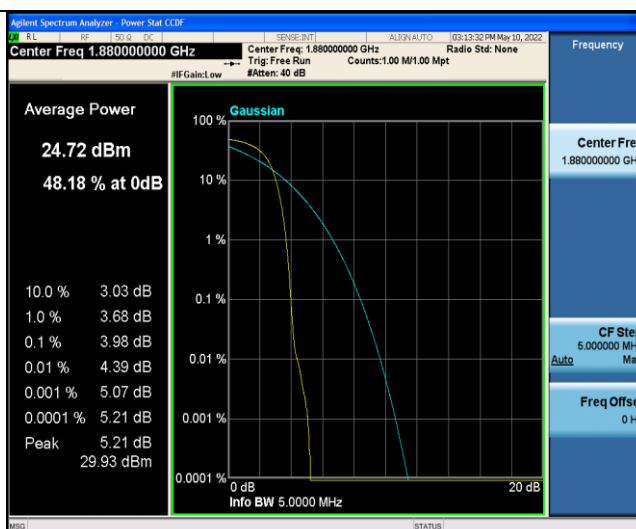
Band2-9400-2



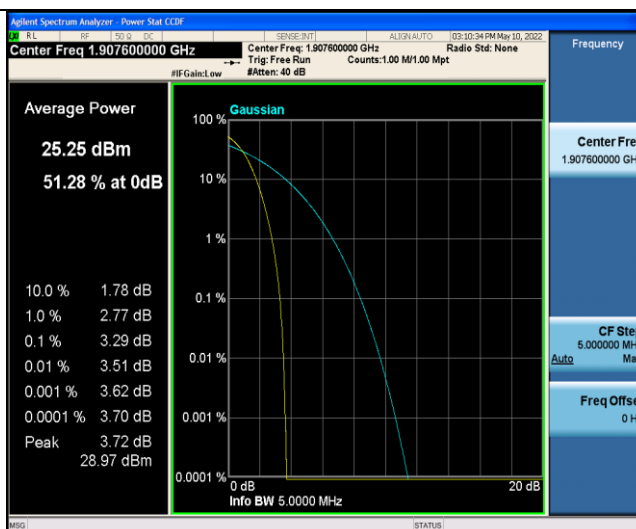
Band2-9400-3



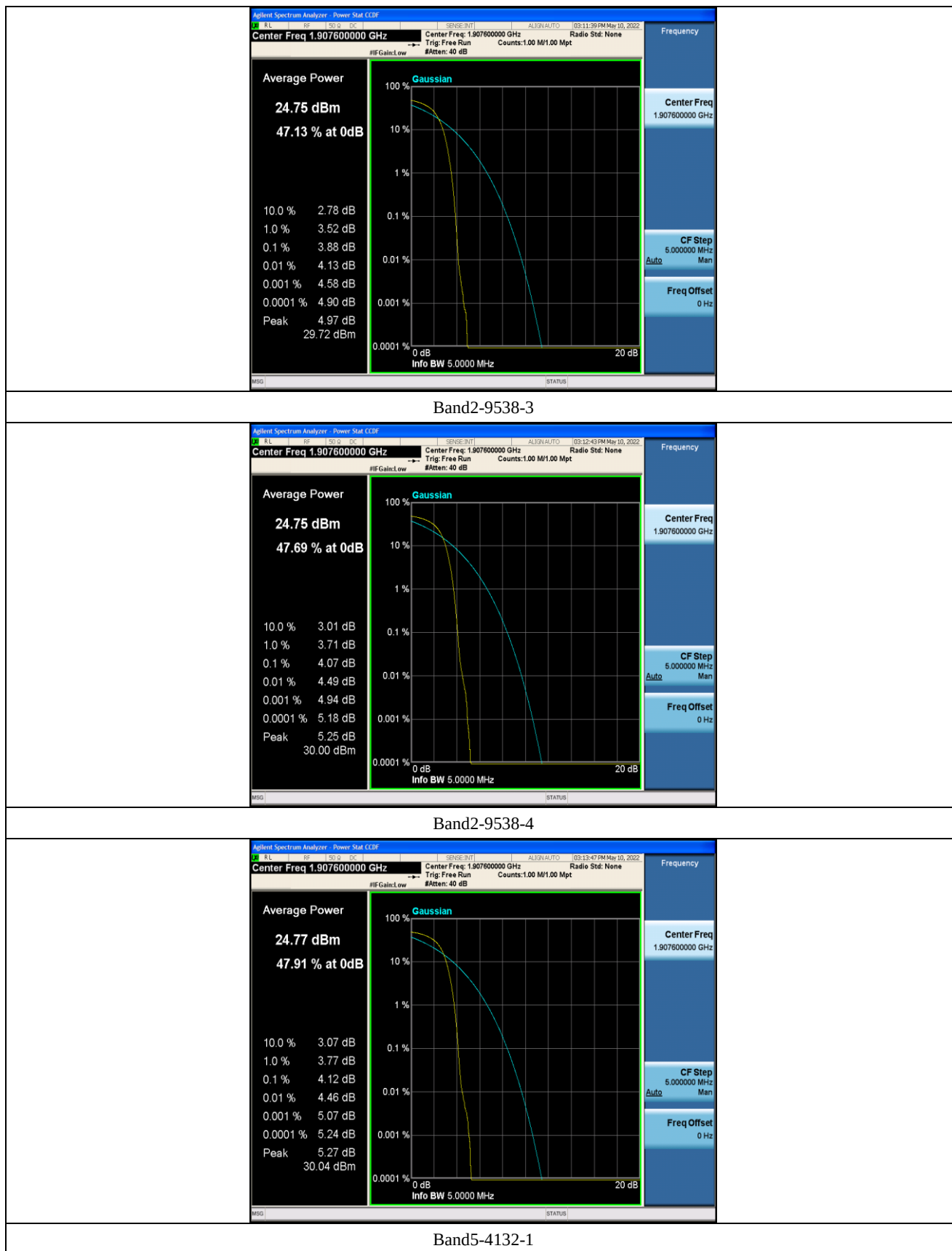
Band2-9400-4

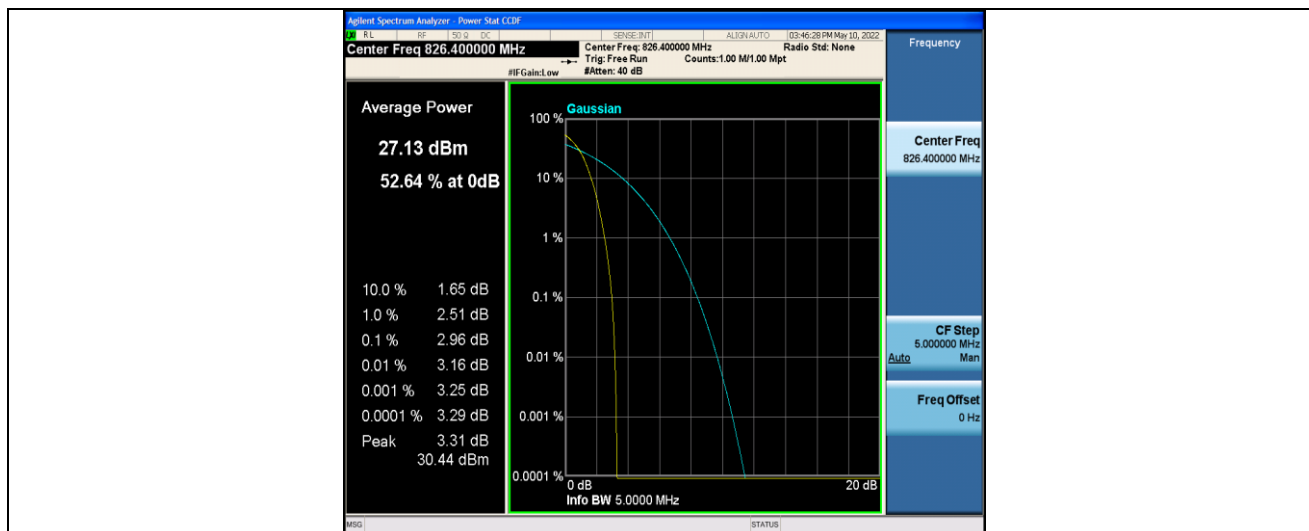


Band2-9538-1

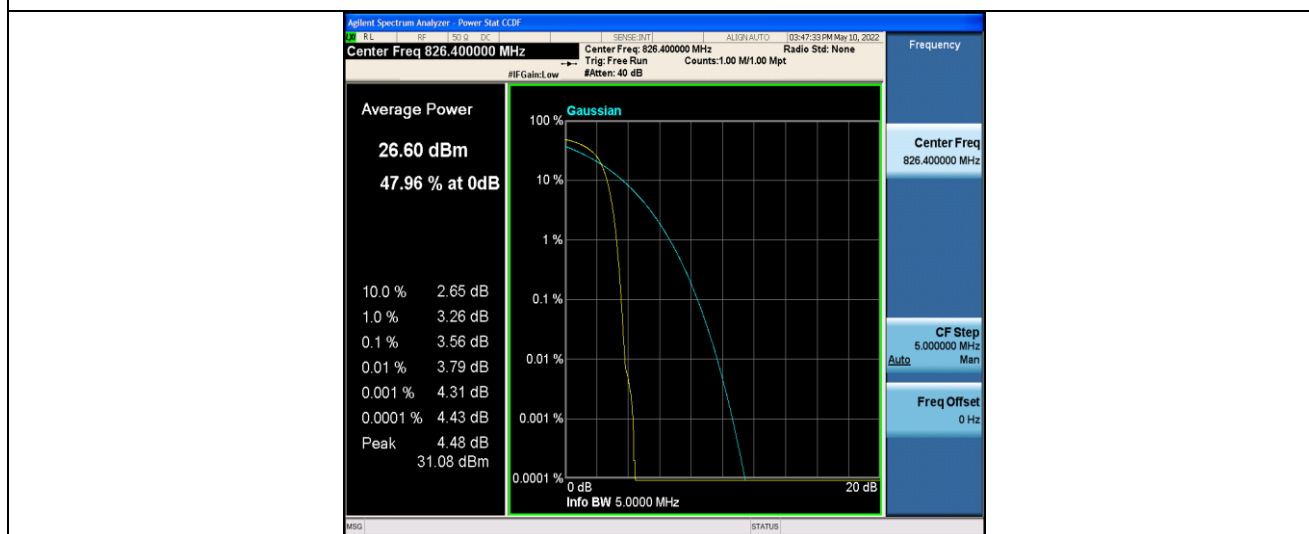


Band2-9538-2

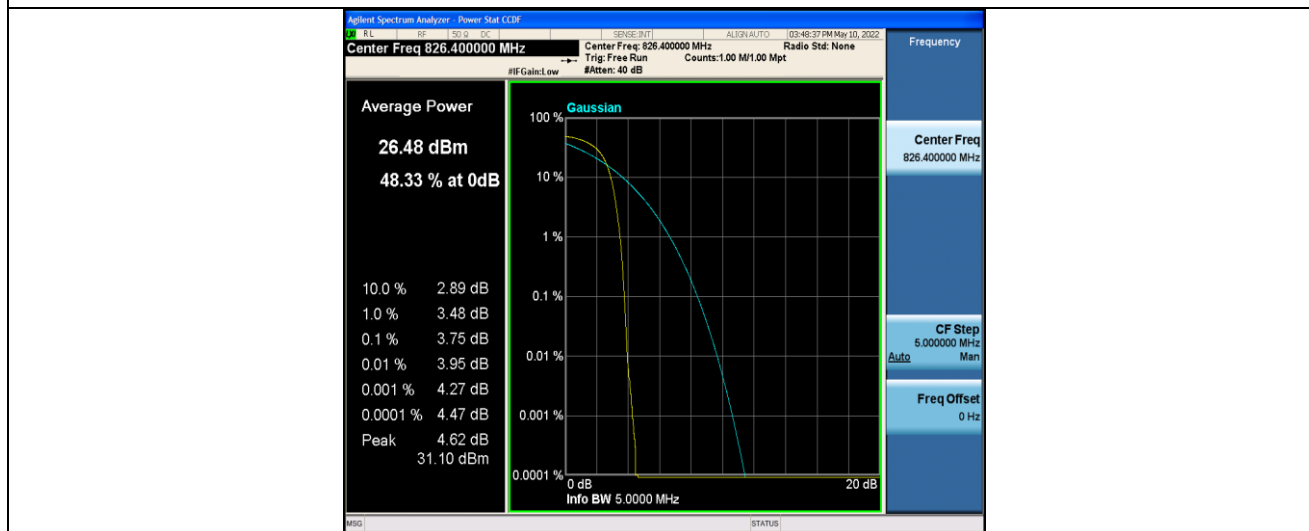




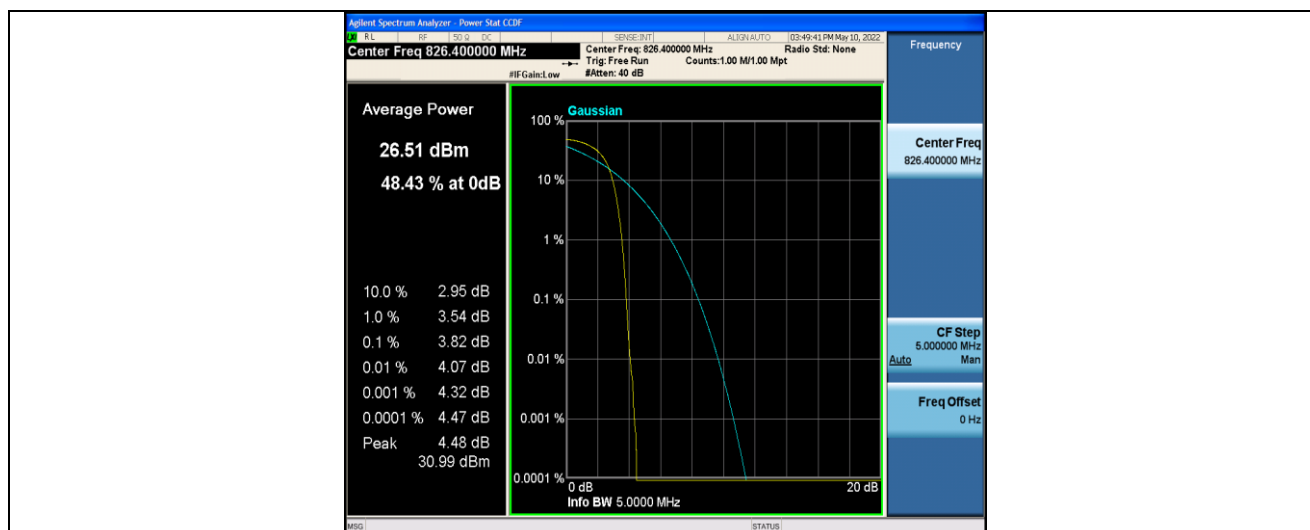
Band5-4132-2



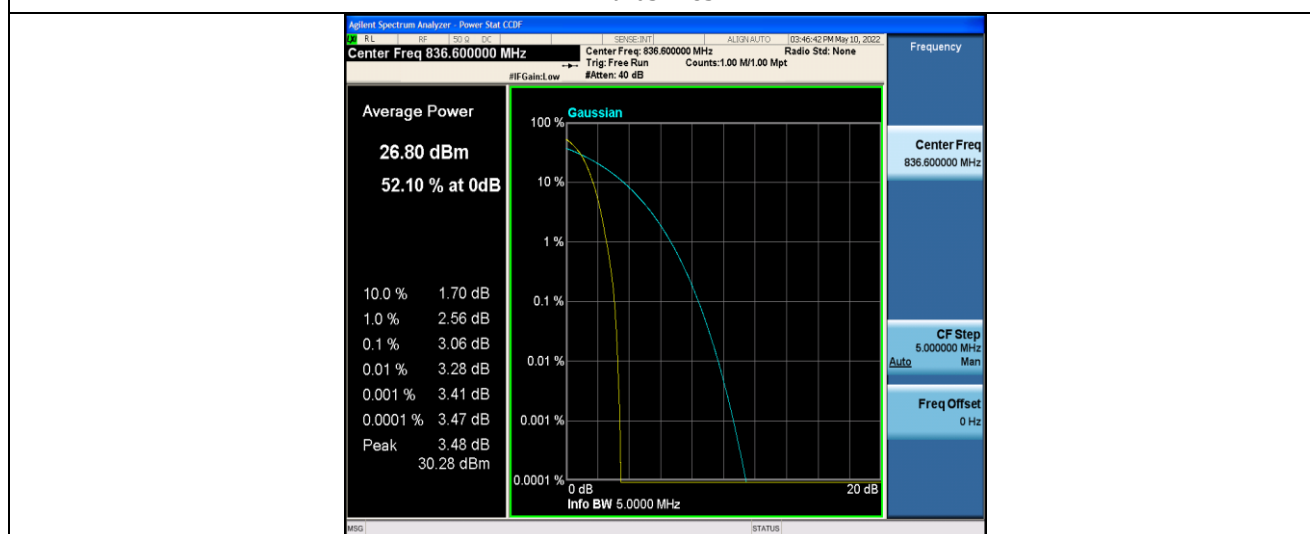
Band5-4132-3



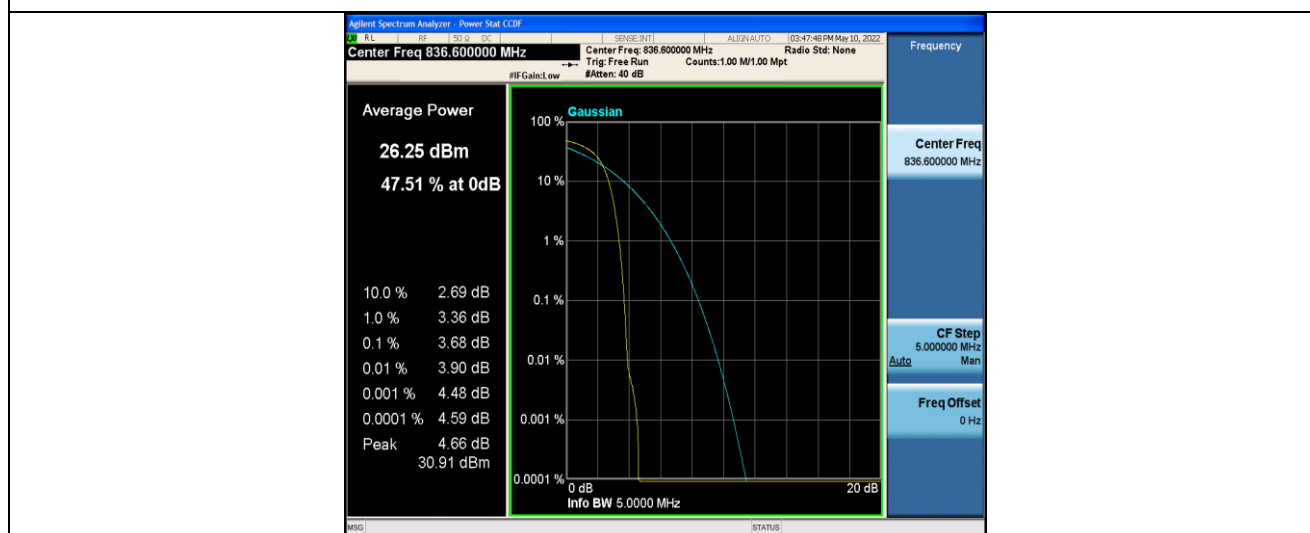
Band5-4132-4



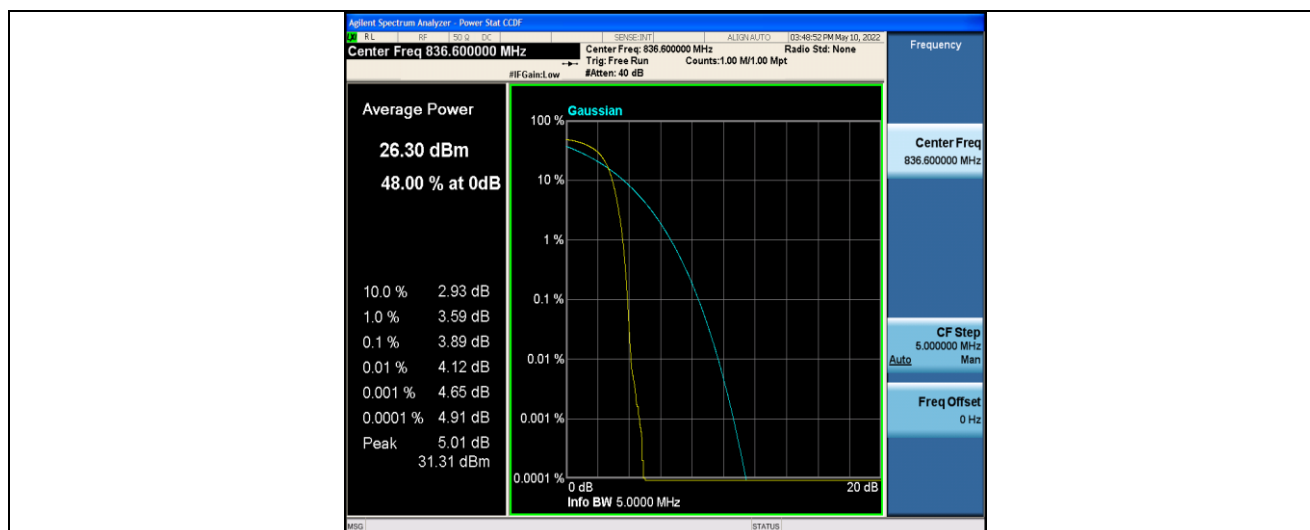
Band5-4183-1



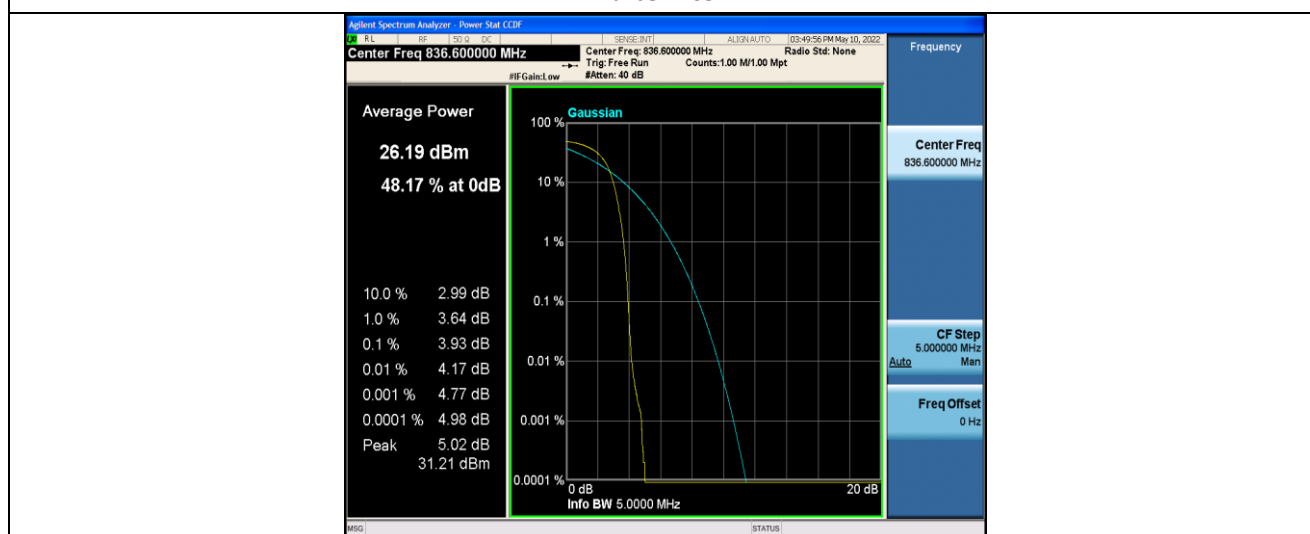
Band5-4183-2



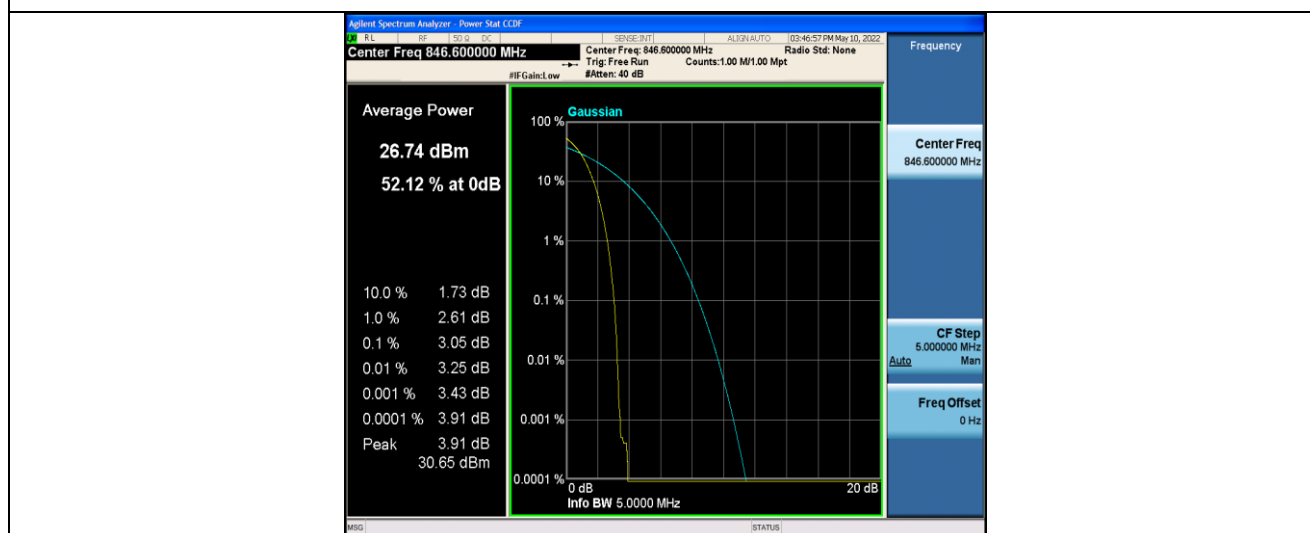
Band5-4183-3



Band5-4183-4



Band5-4233-1



Band5-4233-2