

RF Test Data for WCDMA (Conducted Measurements)

General Description of EUT	
Product Name:	Smart POS Payment Terminal
Test Model:	CS50
Sample ID:	20211111-01_01-02#
Environmental Conditions	
Temperature:	25℃
Relative Humidity:	55%
Test Voltage:	DC 7.6V
Test Engineer:	Huangjianping
Note: For a more detailed features description, please refer to the report TB-FCC185239	

Contents

A: Effective (Isotropic) Radiated Power Output Data.....	3
Test Result(WCDMA)	3
Test Result(HSDPA)	3
Test Result(HSUPA)	4
B:Peak-to-Average Ratio	7
Test Result(WCDMA)	7
Test Result(HSDPA)	7
Test Result(HSUPA)	8
Test Graphs(WCDMA).....	10
Test Graphs(HSDPA).....	13
Test Graphs(HSUPA).....	25
C:26dB Bandwidth andOccupied Bandwidth	40
Test Result(WCDMA)	40
Test Result(HSDPA)	40
Test Result(HSUPA)	41
Test Graphs(WCDMA).....	43
Test Graphs(HSDPA).....	46
Test Graphs(HSUPA).....	58
D:Band Edge.....	73
Test Result(WCDMA)	73
Test Result(HSDPA)	73
Test Result(HSUPA)	74
Test Graphs(WCDMA).....	75
Test Graphs(HSDPA).....	77
Test Graphs(HSUPA).....	85
E:Conducted SpuriousEmission.....	95
Test Result(WCDMA)	95
Test Result(HSDPA)	96
Test Result(HSUPA)	100
Test Graphs(WCDMA).....	106
Test Graphs(HSDPA).....	118
Test Graphs(HSUPA).....	166
F:Frequency Stability.....	226
Test Result(WCDMA)	226
Test Result(HSDPA)	230
Test Result(HSUPA)	243

A: Effective (Isotropic) Radiated Power Output Data

Test Result(WCDMA)

Band	Channel	Power(dBm)	Limit(dBm)	Verdict
Band2	9262	22.21	33	PASS
Band2	9262	21.79	33	PASS
Band2	9400	22.19	33	PASS
Band2	9400	21.79	33	PASS
Band2	9538	22.21	33	PASS
Band2	9538	21.75	33	PASS
Band4	1312	21.99	30	PASS
Band4	1312	21.53	30	PASS
Band4	1413	22.04	30	PASS
Band4	1413	21.65	30	PASS
Band4	1513	21.92	30	PASS
Band4	1513	21.45	30	PASS
Band5	4132	21.97	38.5	PASS
Band5	4132	21.50	38.5	PASS
Band5	4183	22.06	38.5	PASS
Band5	4183	21.65	38.5	PASS
Band5	4233	22.07	38.5	PASS
Band5	4233	21.64	38.5	PASS

Test Result(HSDPA)

Band	Channel	SubTest	Power(dBm)	Limit(dBm)	Verdict
Band2	9262	1	22.21	33	PASS
Band2	9262	2	21.79	33	PASS
Band2	9262	3	21.69	33	PASS
Band2	9262	4	21.65	33	PASS
Band2	9400	1	22.19	33	PASS
Band2	9400	2	21.79	33	PASS
Band2	9400	3	21.67	33	PASS
Band2	9400	4	21.64	33	PASS
Band2	9538	1	22.21	33	PASS
Band2	9538	2	21.75	33	PASS
Band2	9538	3	21.70	33	PASS

Band2	9538	4	21.67	33	PASS
Band4	1312	1	21.99	30	PASS
Band4	1312	2	21.53	30	PASS
Band4	1312	3	21.44	30	PASS
Band4	1312	4	21.45	30	PASS
Band4	1413	1	22.04	30	PASS
Band4	1413	2	21.65	30	PASS
Band4	1413	3	21.50	30	PASS
Band4	1413	4	21.51	30	PASS
Band4	1513	1	21.92	30	PASS
Band4	1513	2	21.45	30	PASS
Band4	1513	3	21.38	30	PASS
Band4	1513	4	21.38	30	PASS
Band5	4132	1	21.97	38.5	PASS
Band5	4132	2	21.50	38.5	PASS
Band5	4132	3	21.44	38.5	PASS
Band5	4132	4	21.42	38.5	PASS
Band5	4183	1	22.06	38.5	PASS
Band5	4183	2	21.65	38.5	PASS
Band5	4183	3	21.54	38.5	PASS
Band5	4183	4	21.49	38.5	PASS
Band5	4233	1	22.07	38.5	PASS
Band5	4233	2	21.64	38.5	PASS
Band5	4233	3	21.55	38.5	PASS
Band5	4233	4	21.50	38.5	PASS

Test Result(HSUPA)

Band	Channel	SubTest	Power(dBm)	Limit(dBm)	Verdict
Band2	9262	1	20.18	33	PASS
Band2	9262	2	20.68	33	PASS
Band2	9262	3	21.19	33	PASS
Band2	9262	4	20.20	33	PASS
Band2	9262	5	22.17	33	PASS
Band2	9400	1	20.15	33	PASS
Band2	9400	2	20.67	33	PASS

Band2	9400	3	21.18	33	PASS
Band2	9400	4	20.18	33	PASS
Band2	9400	5	22.15	33	PASS
Band2	9538	1	20.18	33	PASS
Band2	9538	2	20.66	33	PASS
Band2	9538	3	21.15	33	PASS
Band2	9538	4	20.19	33	PASS
Band2	9538	5	-999	33	PASS
Band4	1312	1	19.93	30	PASS
Band4	1312	2	20.40	30	PASS
Band4	1312	3	20.89	30	PASS
Band4	1312	4	19.94	30	PASS
Band4	1312	5	21.93	30	PASS
Band4	1413	1	20.01	30	PASS
Band4	1413	2	20.47	30	PASS
Band4	1413	3	20.94	30	PASS
Band4	1413	4	20.00	30	PASS
Band4	1413	5	22.02	30	PASS
Band4	1513	1	19.86	30	PASS
Band4	1513	2	20.36	30	PASS
Band4	1513	3	20.84	30	PASS
Band4	1513	4	19.86	30	PASS
Band4	1513	5	21.88	30	PASS
Band5	4132	1	19.99	38.5	PASS
Band5	4132	2	20.45	38.5	PASS
Band5	4132	3	20.95	38.5	PASS
Band5	4132	4	20.02	38.5	PASS
Band5	4132	5	22.01	38.5	PASS
Band5	4183	1	20.05	38.5	PASS
Band5	4183	2	20.53	38.5	PASS

Band5	4183	3	21.05	38.5	PASS
Band5	4183	4	20.12	38.5	PASS
Band5	4183	5	22.04	38.5	PASS
Band5	4233	1	20.02	38.5	PASS
Band5	4233	2	20.51	38.5	PASS
Band5	4233	3	21.02	38.5	PASS
Band5	4233	4	20.06	38.5	PASS
Band5	4233	5	22.02	38.5	PASS

B:Peak-to-Average Ratio

Test Result(WCDMA)

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9262	1.6	13	PASS
Band2	9400	1.6	13	PASS
Band2	9538	1.68	13	PASS
Band4	1312	8.62	13	PASS
Band4	1413	8.62	13	PASS
Band4	1513	8.57	13	PASS
Band5	4132	3.1	13	PASS
Band5	4183	3.09	13	PASS
Band5	4233	3.25	13	PASS

Test Result(HSDPA)

Band	Channel	SubTest	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9262	1	3.16	13	PASS
Band2	9262	2	3.88	13	PASS
Band2	9262	3	3.94	13	PASS
Band2	9262	4	4.01	13	PASS
Band2	9400	1	3.16	13	PASS
Band2	9400	2	3.86	13	PASS
Band2	9400	3	3.95	13	PASS
Band2	9400	4	3.99	13	PASS
Band2	9538	1	3.12	13	PASS
Band2	9538	2	3.89	13	PASS
Band2	9538	3	3.93	13	PASS
Band2	9538	4	3.98	13	PASS
Band4	1312	1	3.25	13	PASS
Band4	1312	2	3.82	13	PASS
Band4	1312	3	4.02	13	PASS
Band4	1312	4	4.06	13	PASS
Band4	1413	1	3.16	13	PASS
Band4	1413	2	3.71	13	PASS
Band4	1413	3	3.9	13	PASS
Band4	1413	4	3.94	13	PASS

Band4	1513	1	3.19	13	PASS
Band4	1513	2	3.8	13	PASS
Band4	1513	3	3.98	13	PASS
Band4	1513	4	4.02	13	PASS
Band5	4132	1	3.13	13	PASS
Band5	4132	2	3.7	13	PASS
Band5	4132	3	3.9	13	PASS
Band5	4132	4	3.93	13	PASS
Band5	4183	1	3.12	13	PASS
Band5	4183	2	3.84	13	PASS
Band5	4183	3	4.02	13	PASS
Band5	4183	4	4.06	13	PASS
Band5	4233	1	3.21	13	PASS
Band5	4233	2	4.03	13	PASS
Band5	4233	3	4.22	13	PASS
Band5	4233	4	4.26	13	PASS

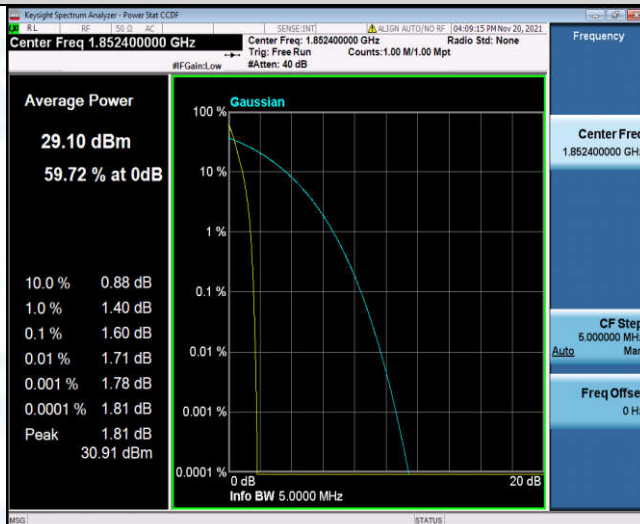
Test Result(HSUPA)

Band	Channel	SubTest	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9262	1	4.45	13	PASS
Band2	9262	2	5.54	13	PASS
Band2	9262	3	5.09	13	PASS
Band2	9262	4	5.53	13	PASS
Band2	9262	5	4.23	13	PASS
Band2	9400	1	4.66	13	PASS
Band2	9400	2	3.28	13	PASS
Band2	9400	3	3.97	13	PASS
Band2	9400	4	3.18	13	PASS
Band2	9400	5	4.99	13	PASS
Band2	9538	1	4.96	13	PASS
Band2	9538	2	3.18	13	PASS
Band2	9538	3	3.94	13	PASS
Band2	9538	4	2.96	13	PASS
Band2	9538	5	4.7	13	PASS

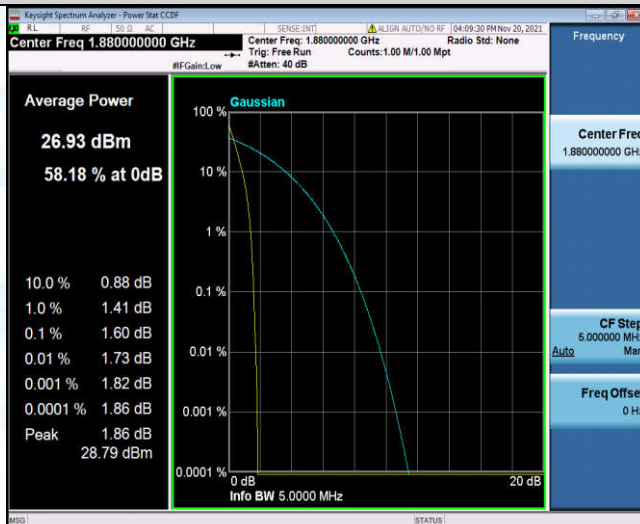
Band4	1312	1	4.52	13	PASS
Band4	1312	2	5.62	13	PASS
Band4	1312	3	5.21	13	PASS
Band4	1312	4	5.62	13	PASS
Band4	1312	5	4.31	13	PASS
Band4	1413	1	4.9	13	PASS
Band4	1413	2	3.16	13	PASS
Band4	1413	3	3.89	13	PASS
Band4	1413	4	2.98	13	PASS
Band4	1413	5	4.96	13	PASS
Band4	1513	1	4.82	13	PASS
Band4	1513	2	3.33	13	PASS
Band4	1513	3	3.93	13	PASS
Band4	1513	4	2.97	13	PASS
Band4	1513	5	4.68	13	PASS
Band5	4132	1	4.44	13	PASS
Band5	4132	2	5.5	13	PASS
Band5	4132	3	5.07	13	PASS
Band5	4132	4	5.49	13	PASS
Band5	4132	5	4.19	13	PASS
Band5	4183	1	6.45	13	PASS
Band5	4183	2	3.17	13	PASS
Band5	4183	3	3.89	13	PASS
Band5	4183	4	2.93	13	PASS
Band5	4183	5	4.57	13	PASS
Band5	4233	1	4.86	13	PASS
Band5	4233	2	3.4	13	PASS
Band5	4233	3	4.1	13	PASS
Band5	4233	4	3.01	13	PASS
Band5	4233	5	5.05	13	PASS

Test Graphs(WCDMA)

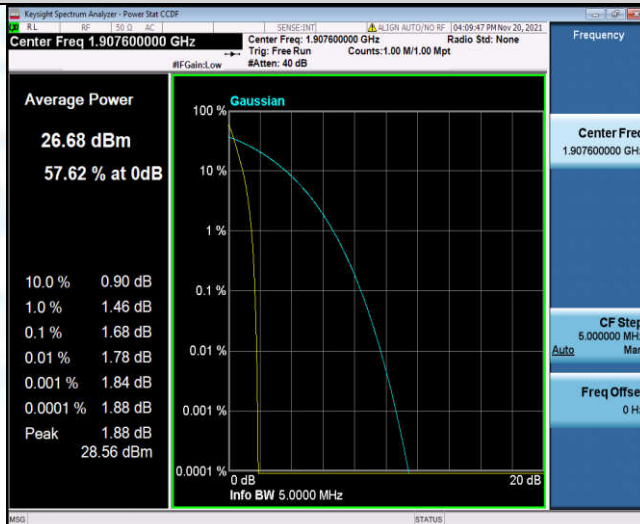
Band2-9262



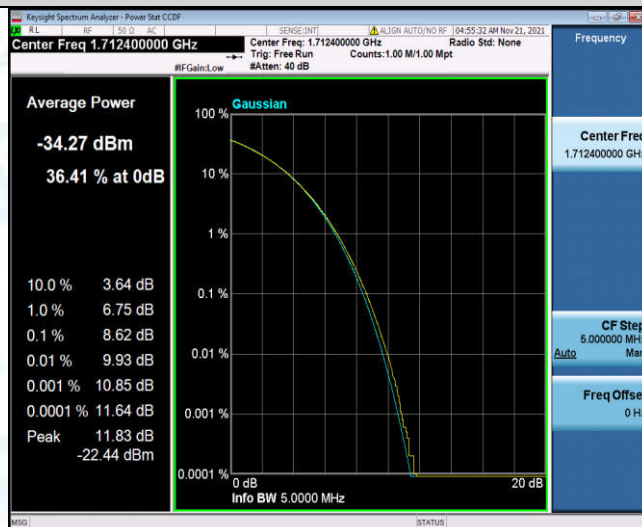
Band2-9400



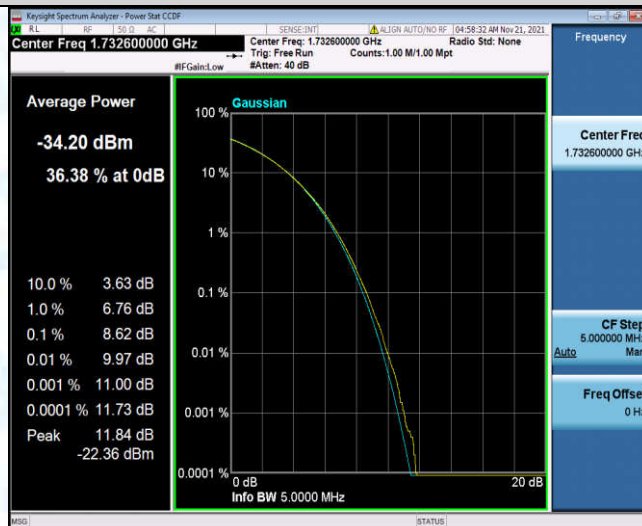
Band2-9538



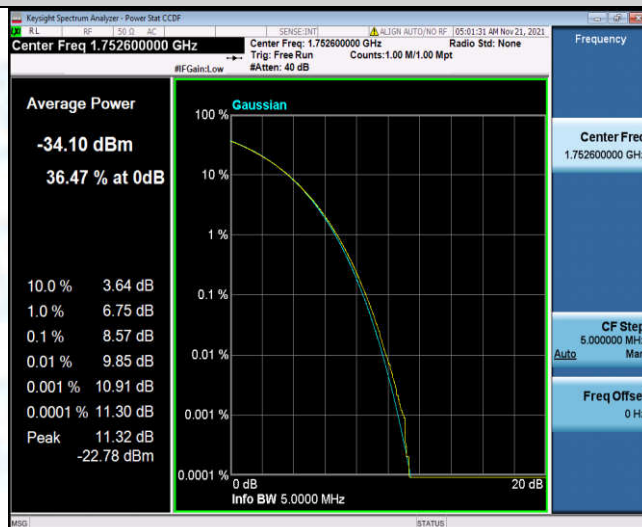
Band4-1312



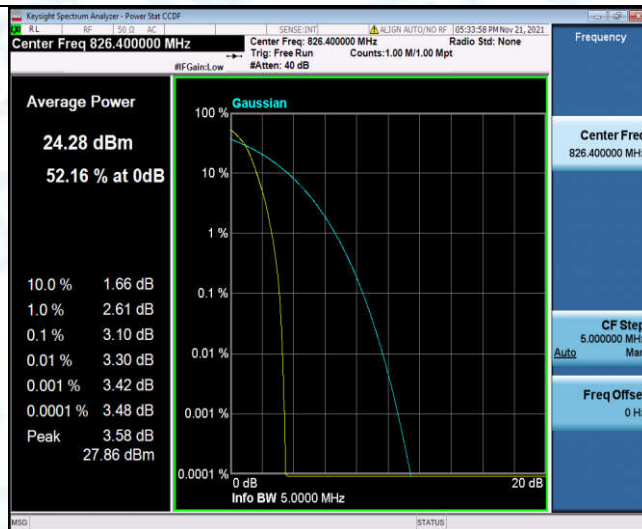
Band4-1413



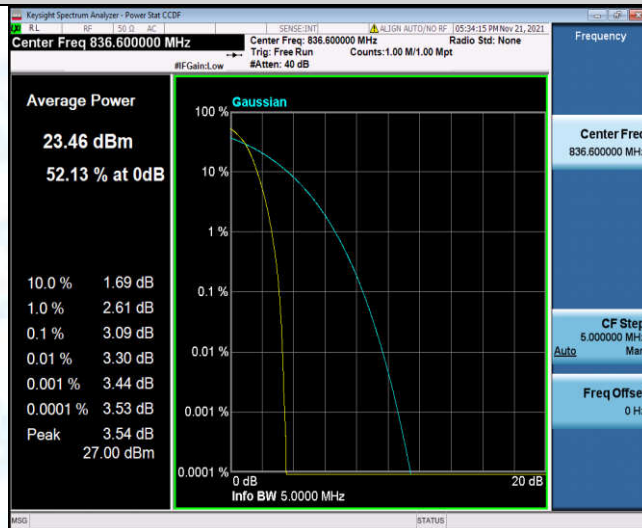
Band4-1513



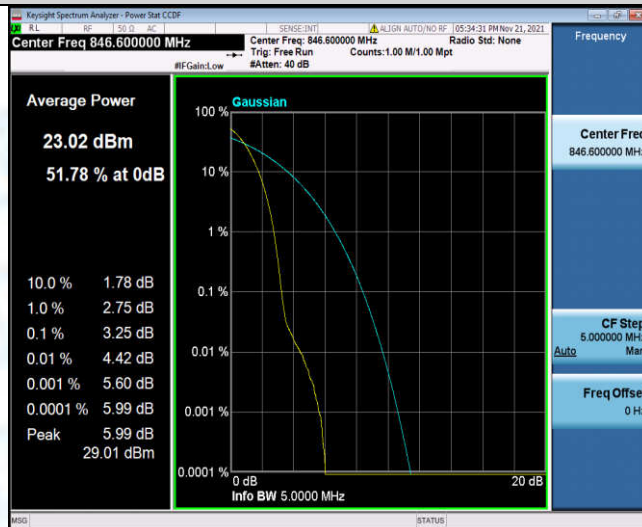
Band5-4132



Band5-4183

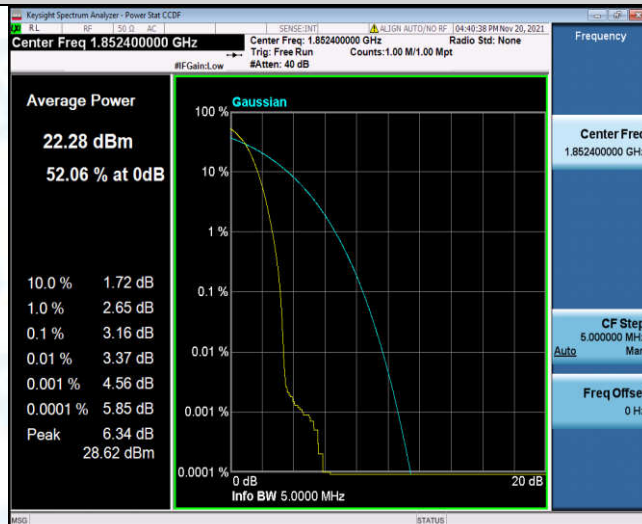


Band5-4233

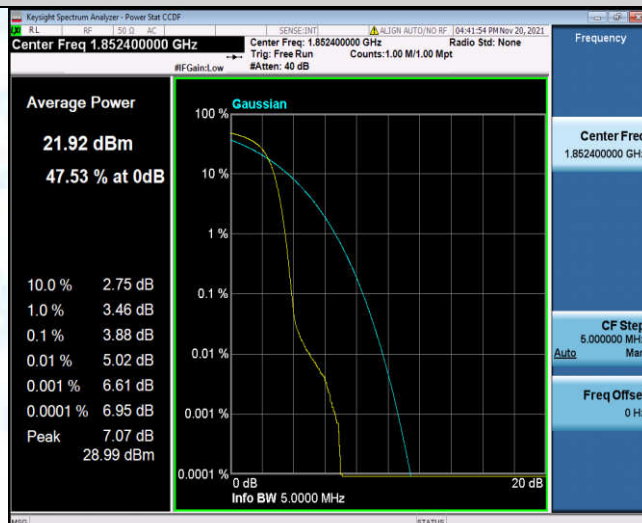


Test Graphs(HSDPA)

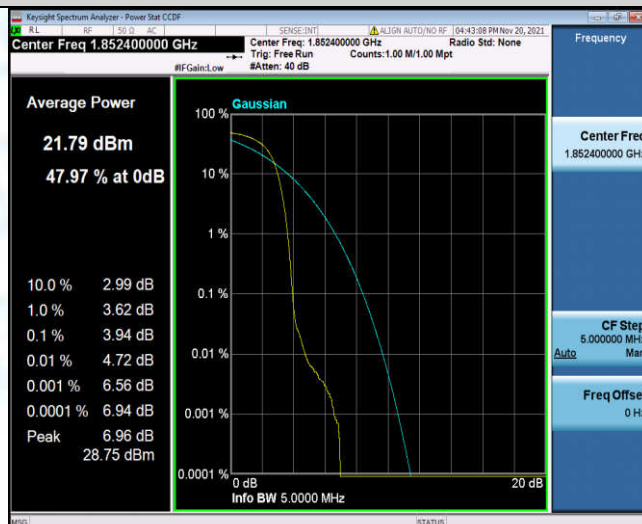
Band2-9262-1



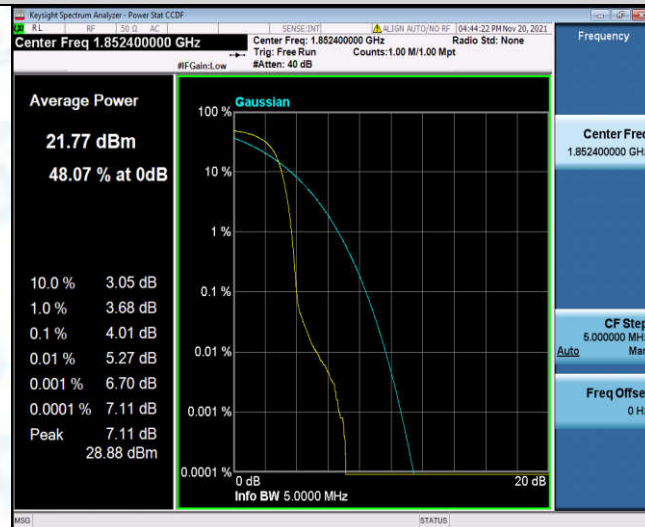
Band2-9262-2



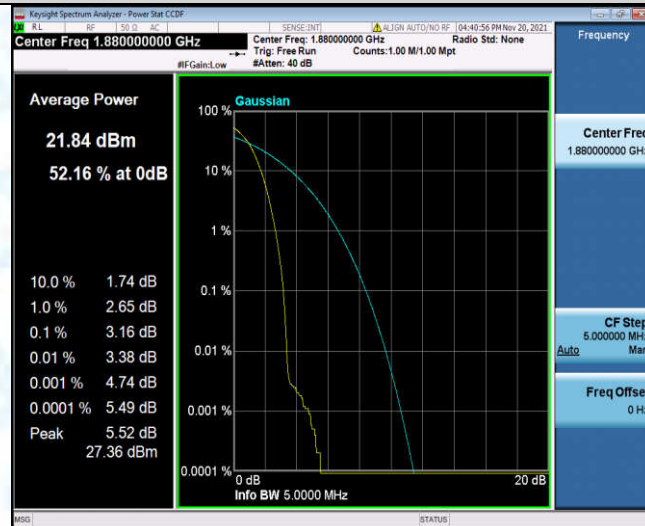
Band2-9262-3



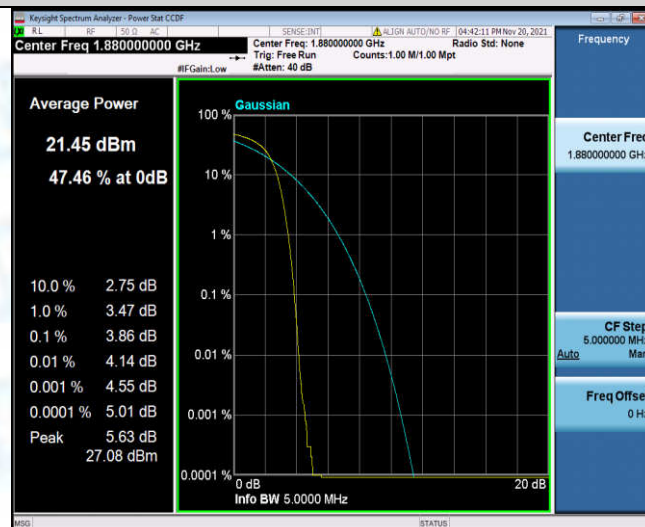
Band2-9262-4



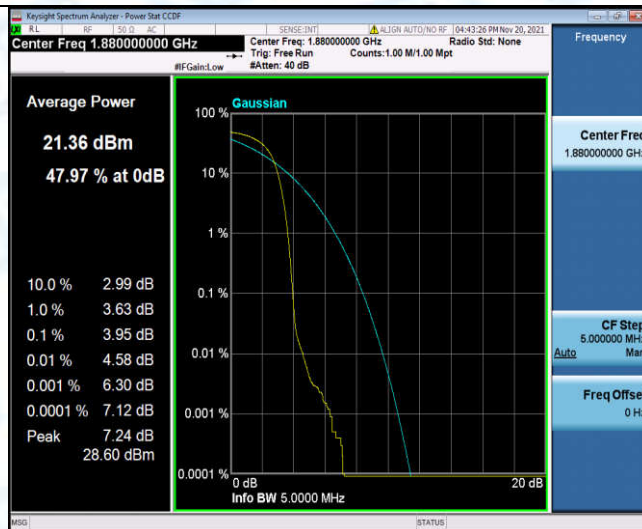
Band2-9400-1



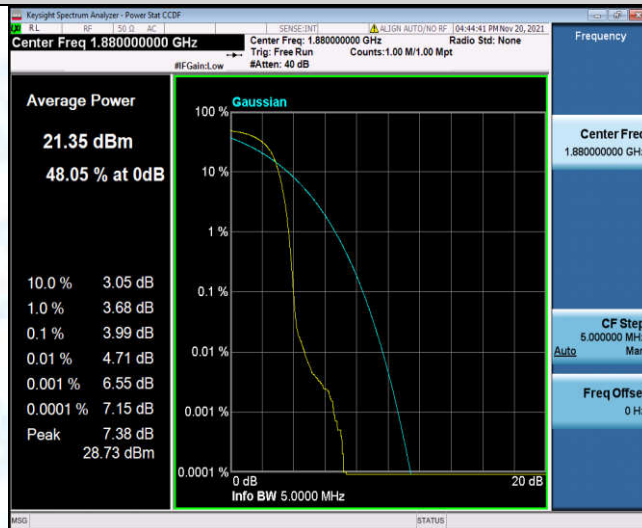
Band2-9400-2



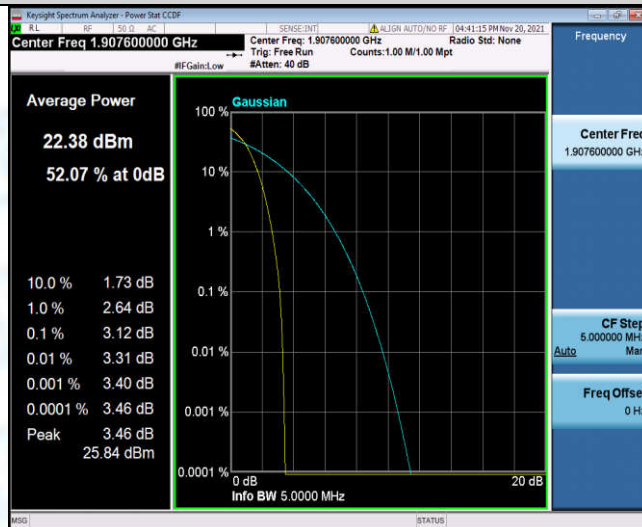
Band2-9400-3



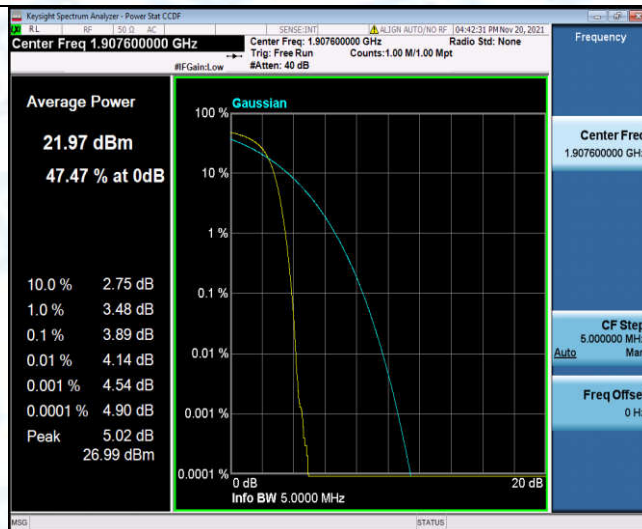
Band2-9400-4



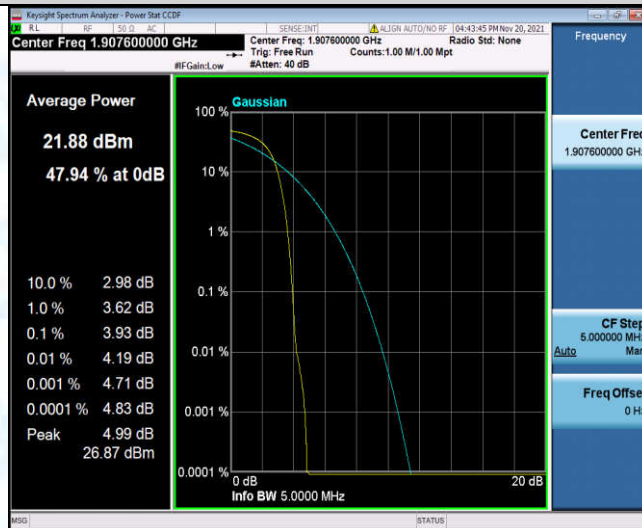
Band2-9538-1



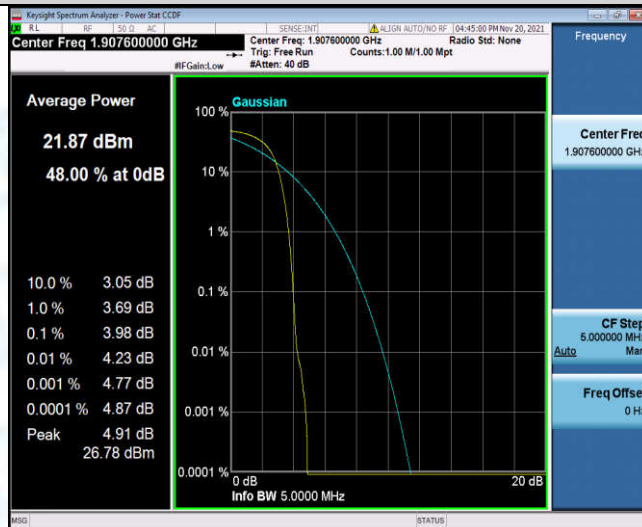
Band2-9538-2



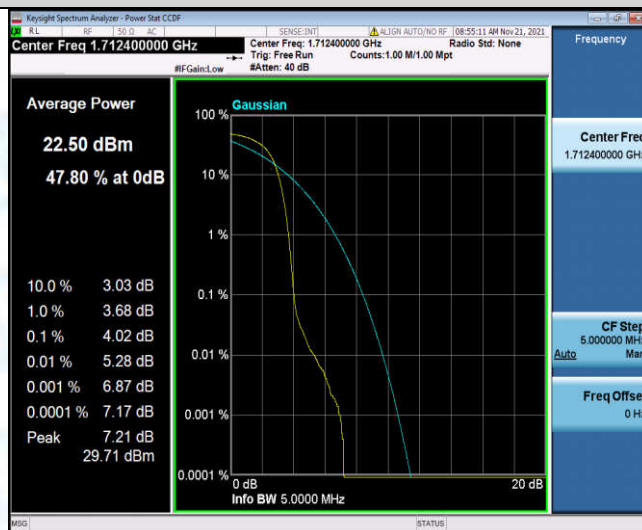
Band2-9538-3

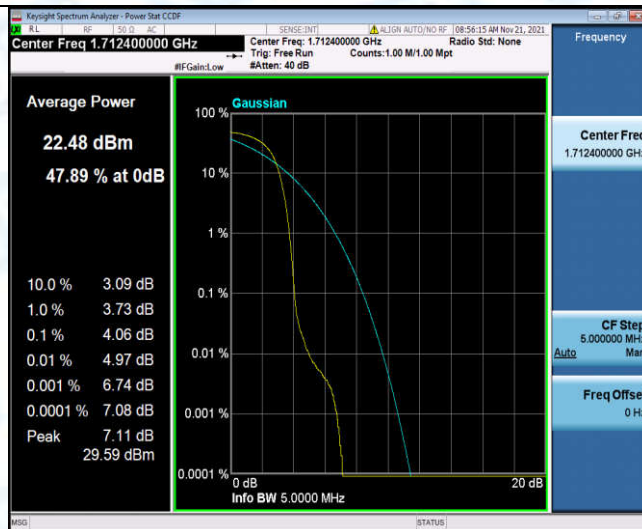


Band2-9538-4

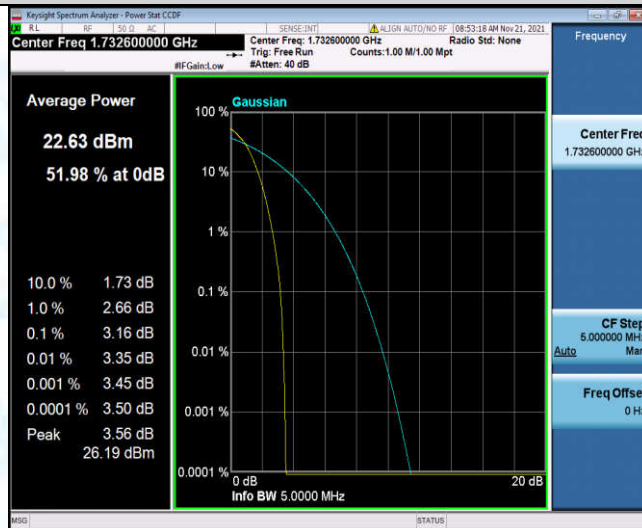


Band4-1312-1

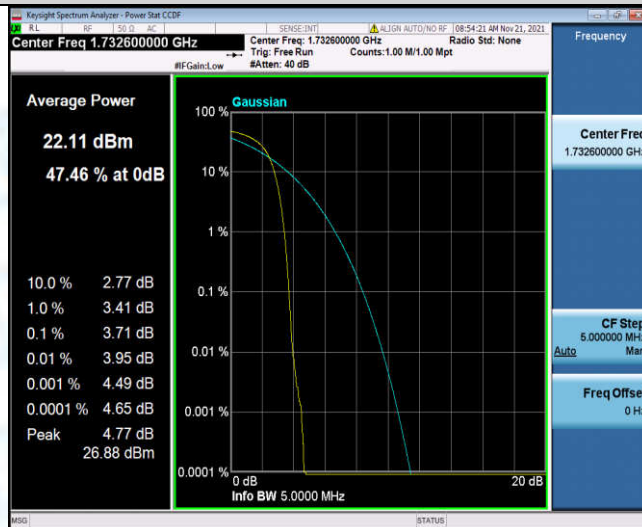




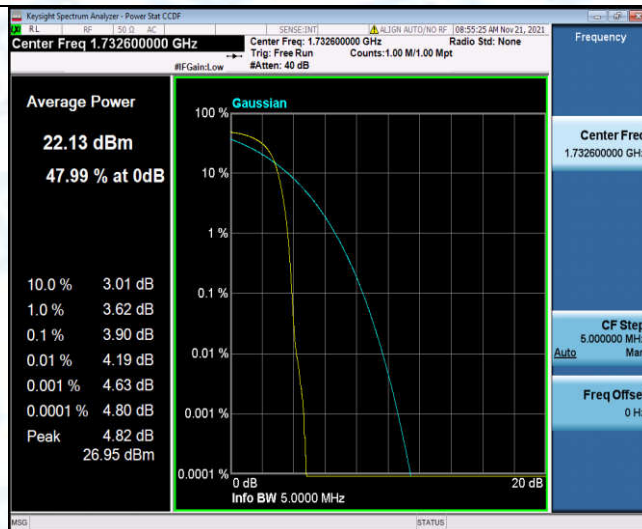
Band4-1413-1



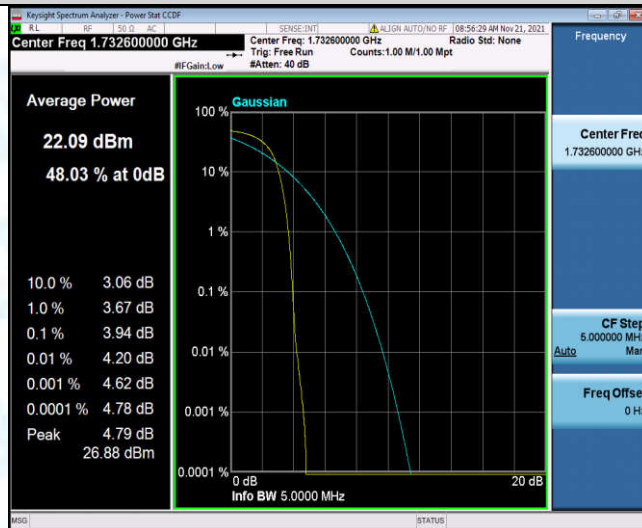
Band4-1413-2



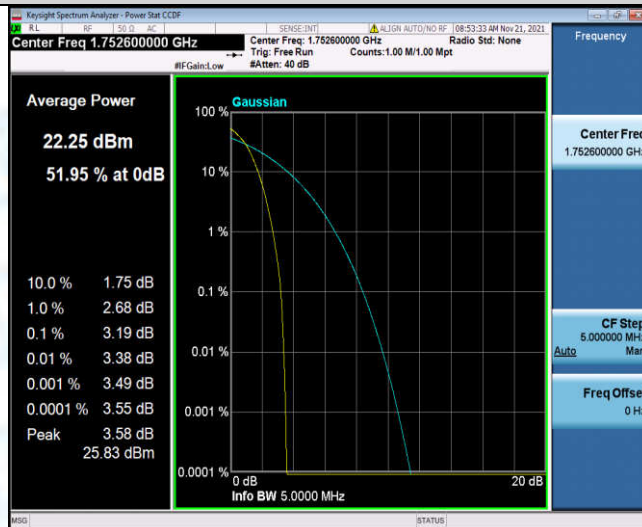
Band4-1413-3



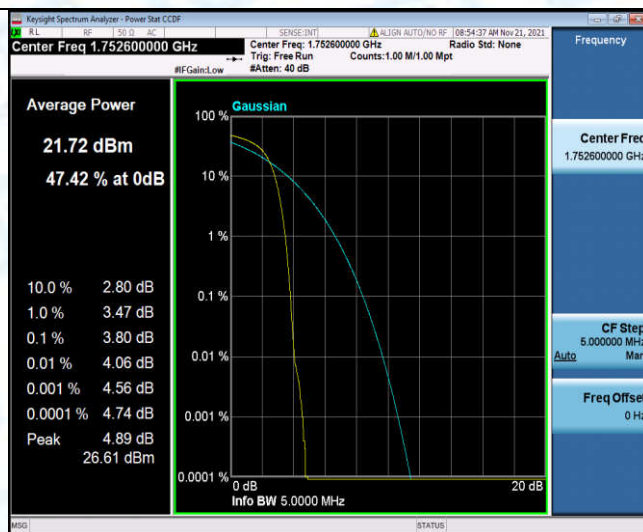
Band4-1413-4



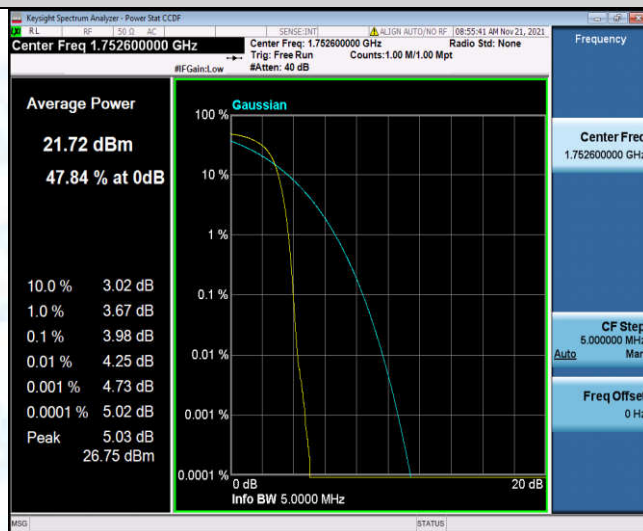
Band4-1513-1



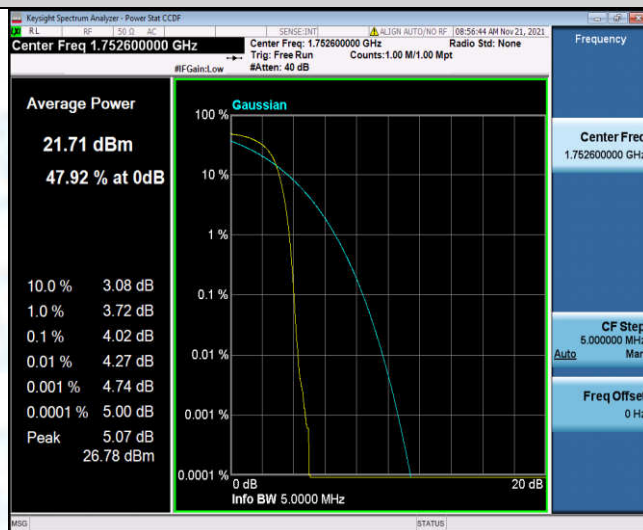
Band4-1513-2



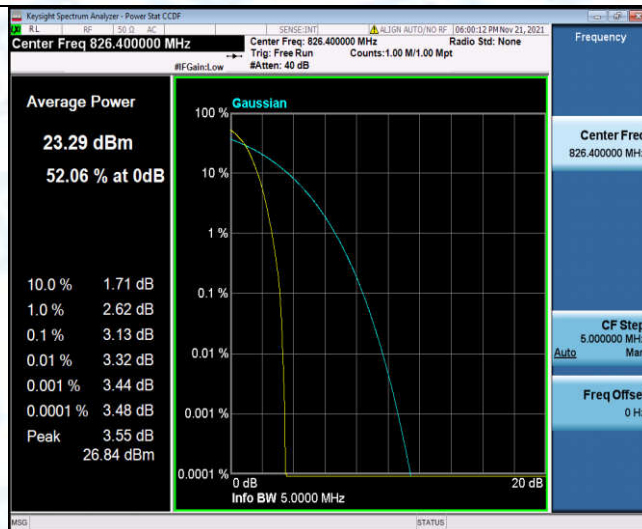
Band4-1513-3



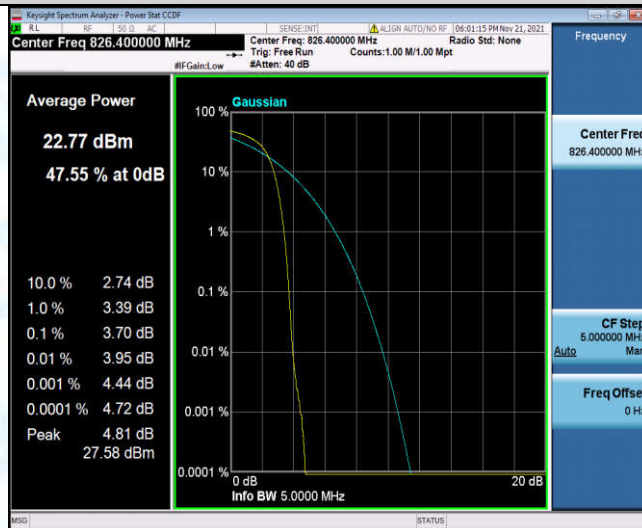
Band4-1513-4



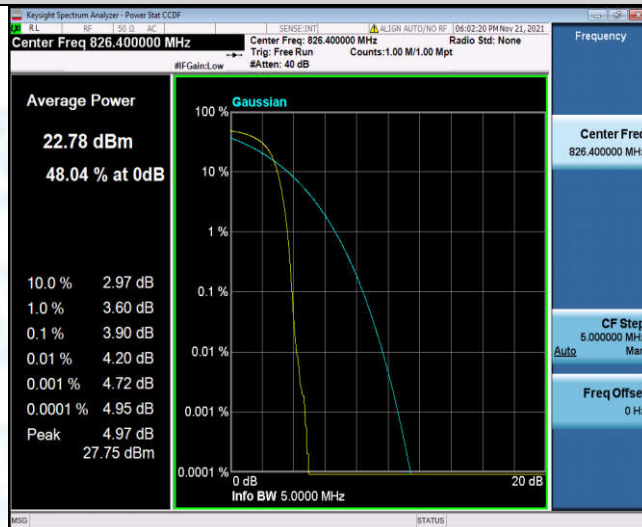
Band5-4132-1



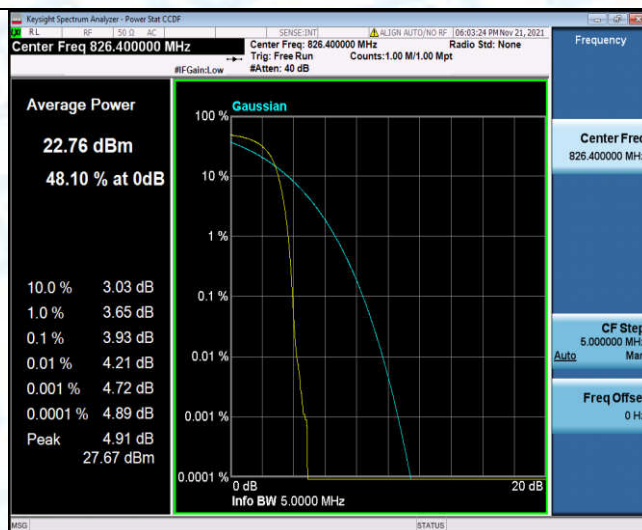
Band5-4132-2



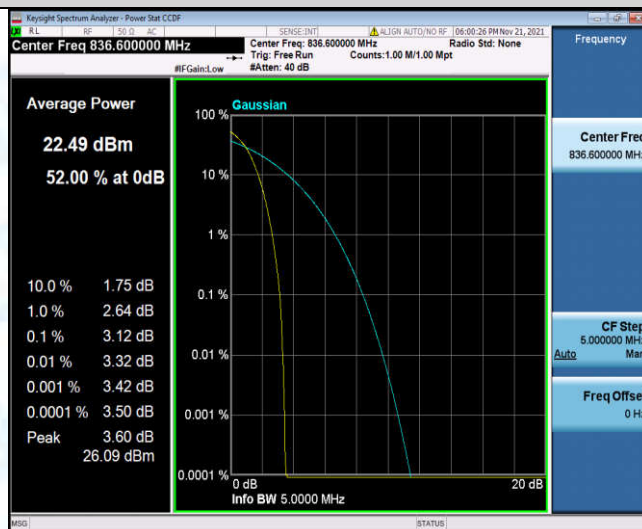
Band5-4132-3



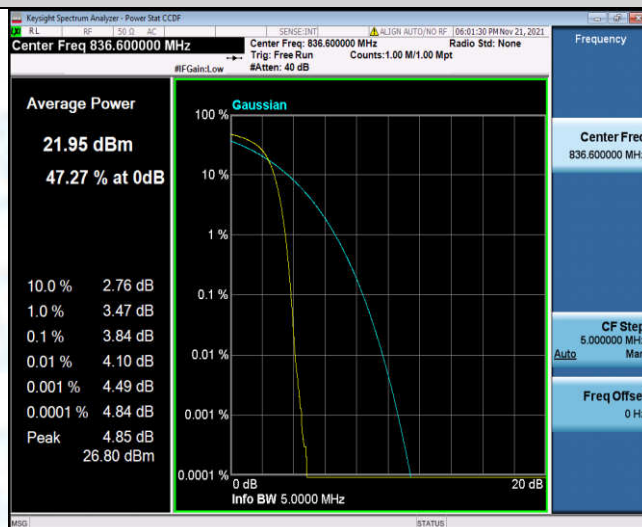
Band5-4132-4



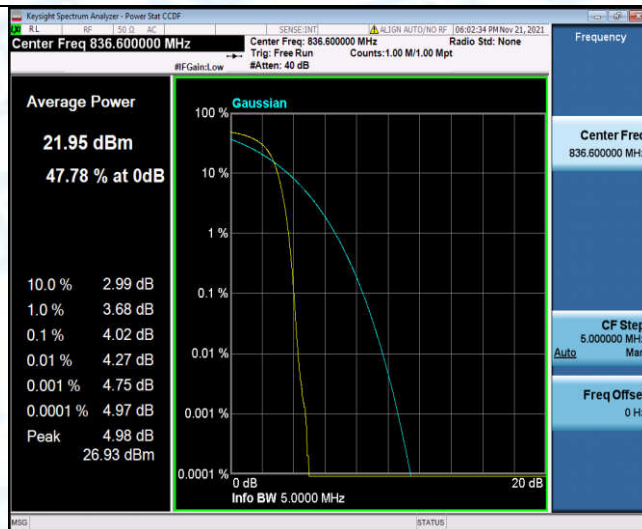
Band5-4183-1



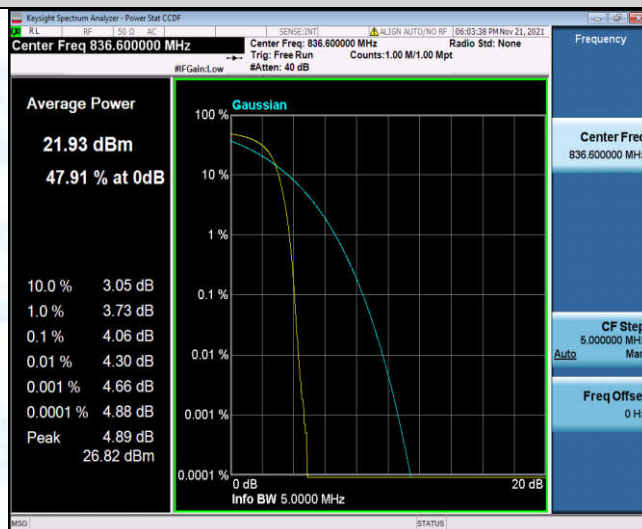
Band5-4183-2



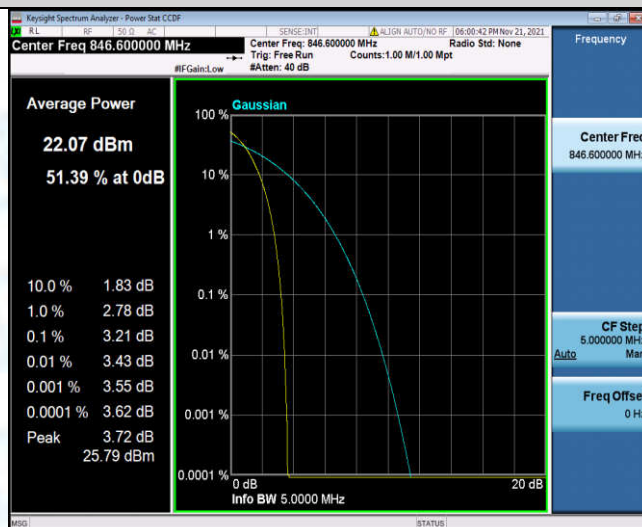
Band5-4183-3



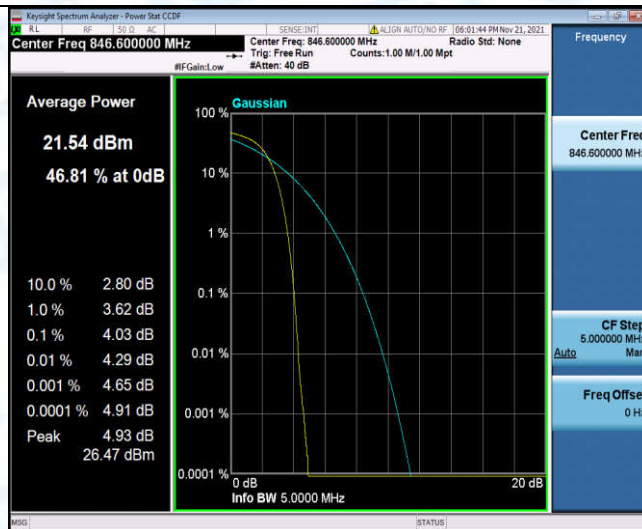
Band5-4183-4



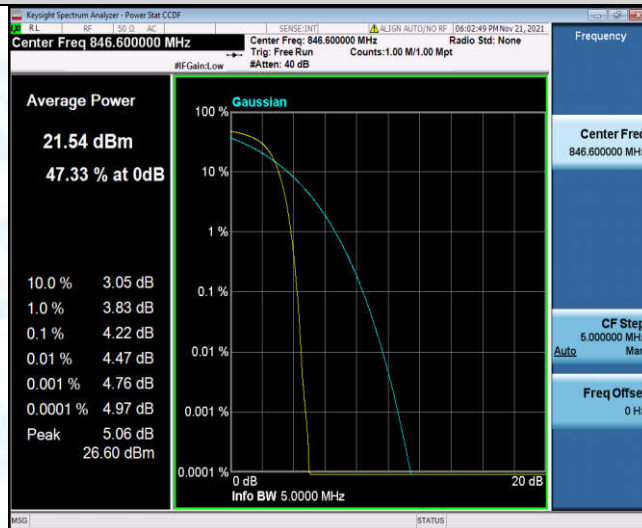
Band5-4233-1



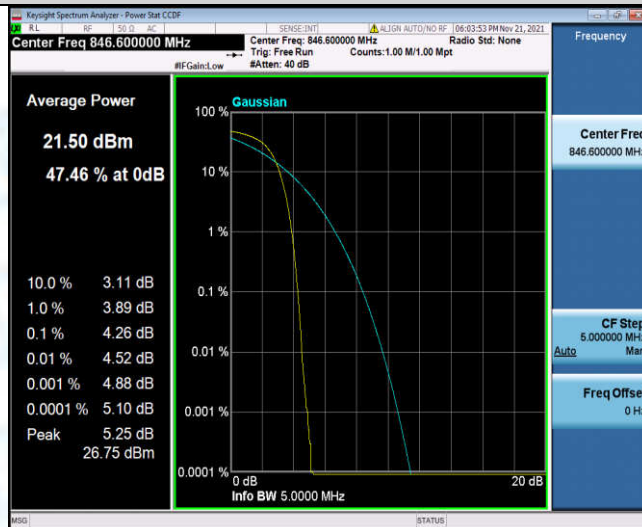
Band5-4233-2



Band5-4233-3

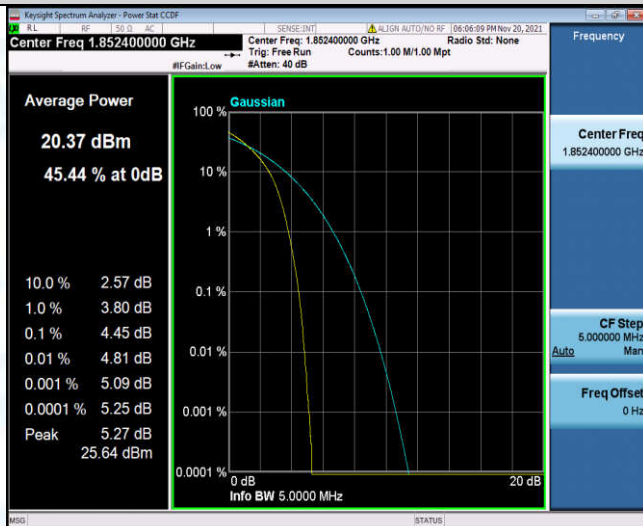


Band5-4233-4

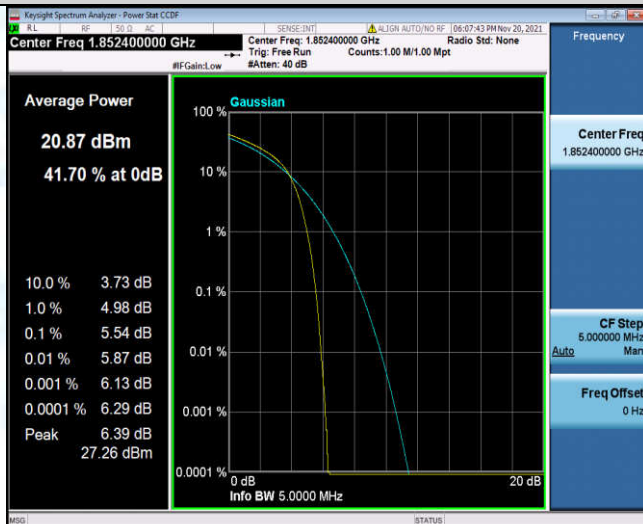


Test Graphs(HSUPA)

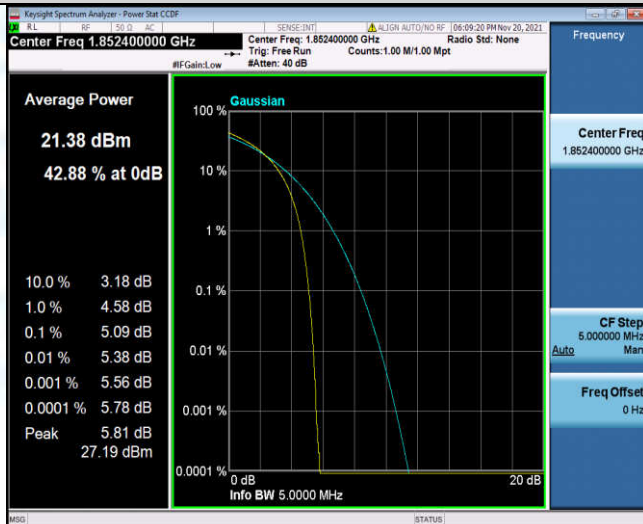
Band2-9262-1



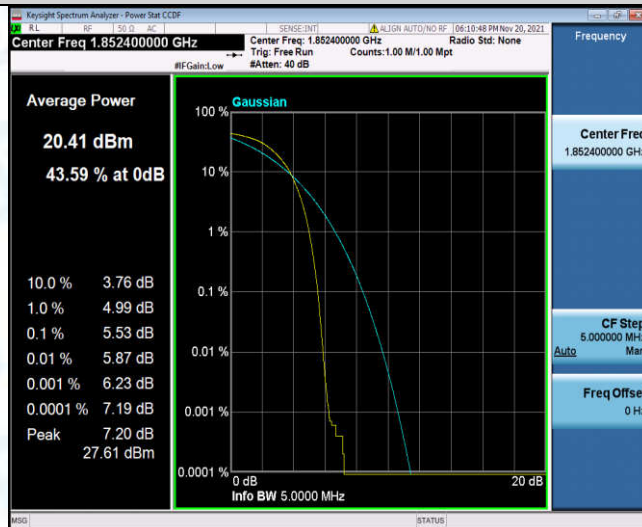
Band2-9262-2



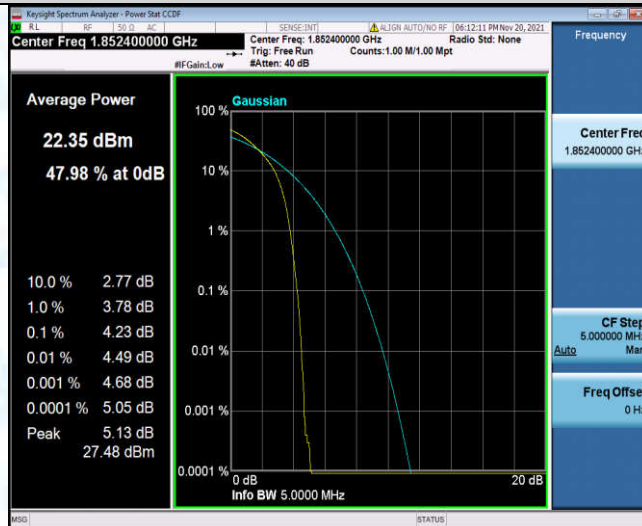
Band2-9262-3



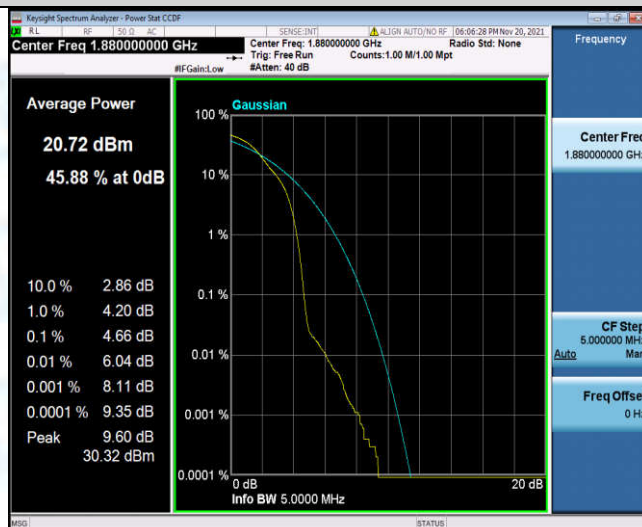
Band2-9262-4



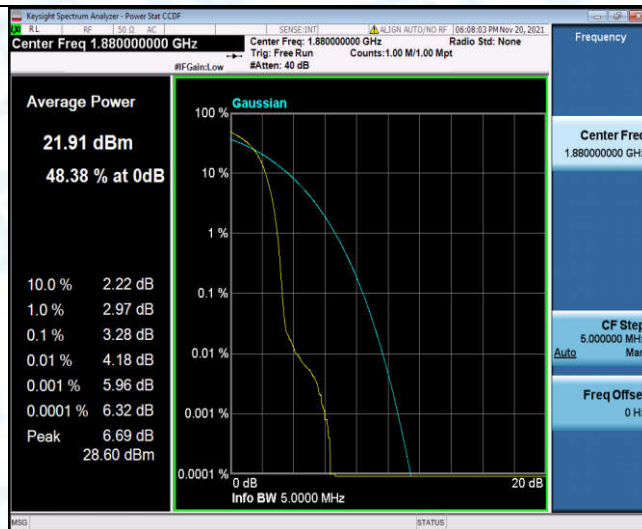
Band2-9262-5



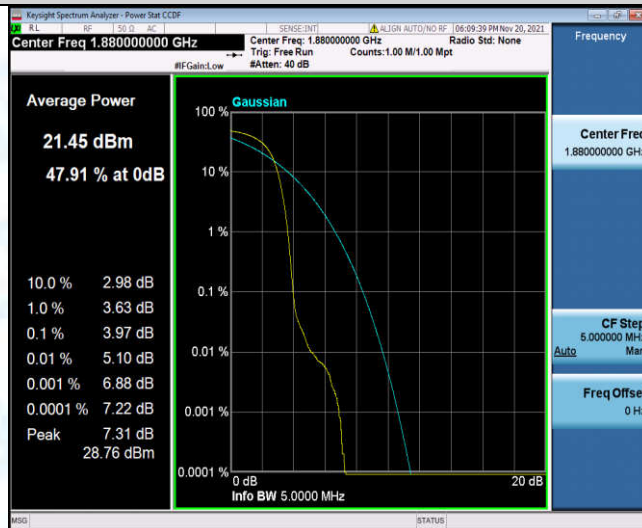
Band2-9400-1



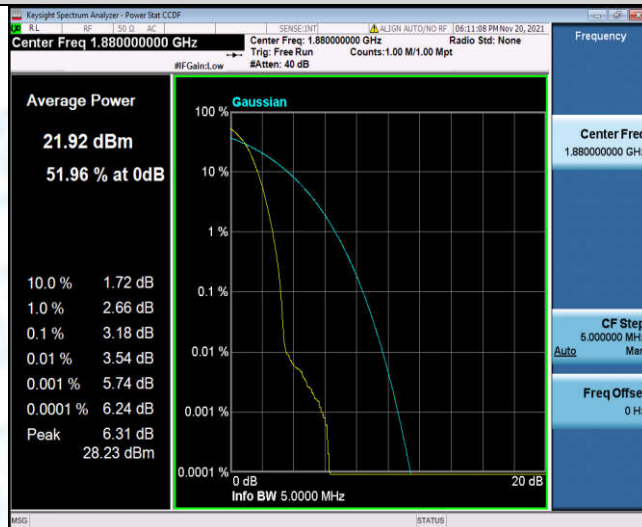
Band2-9400-2



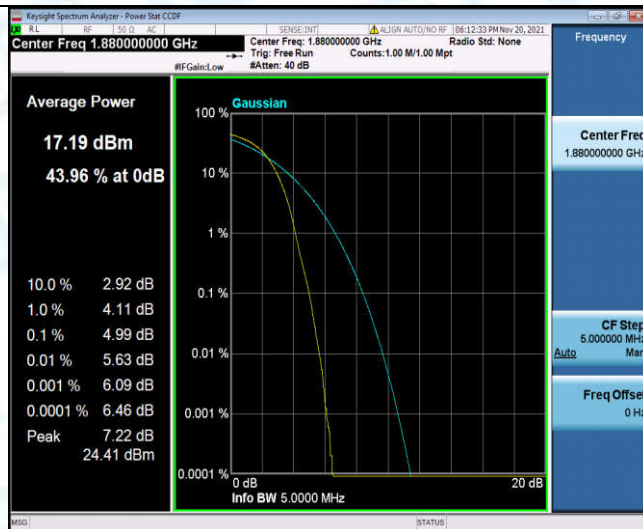
Band2-9400-3



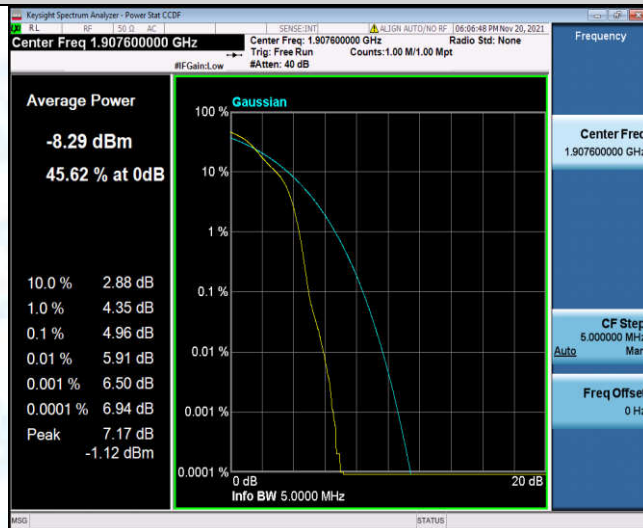
Band2-9400-4



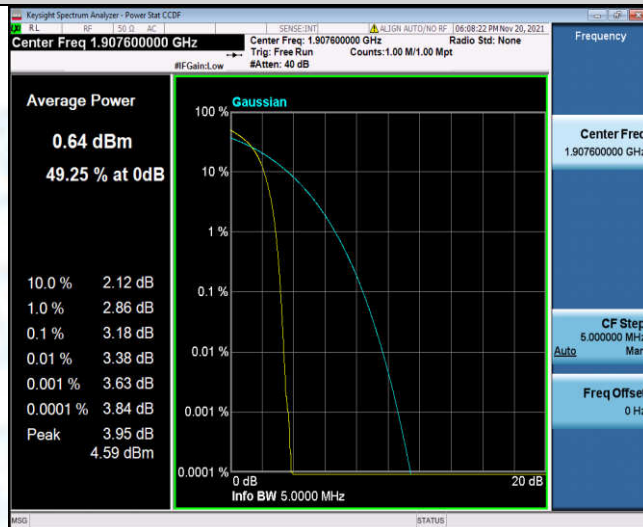
Band2-9400-5



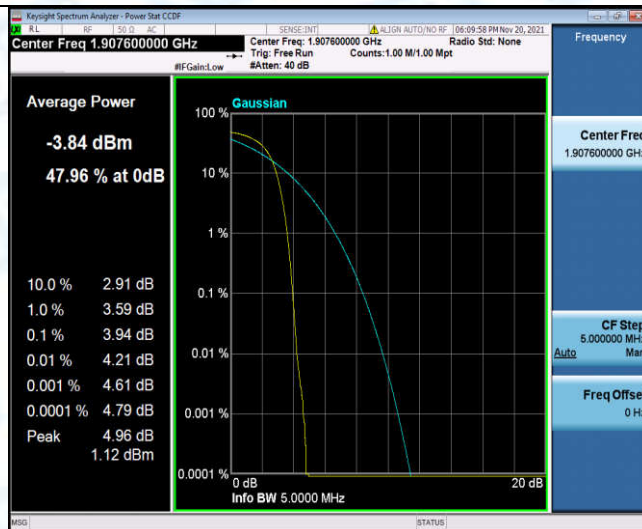
Band2-9538-1



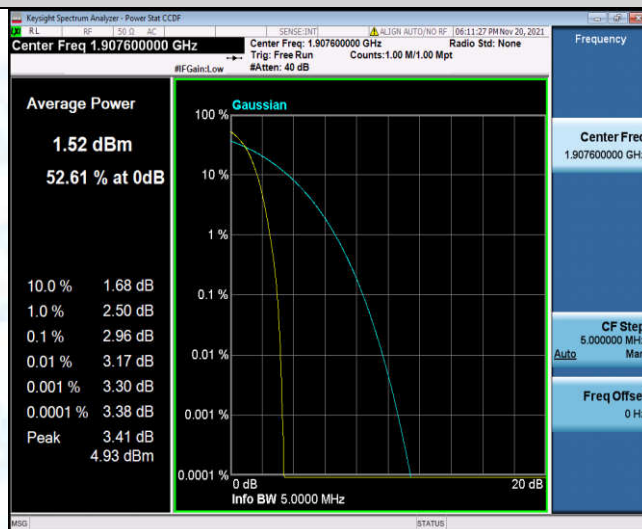
Band2-9538-2



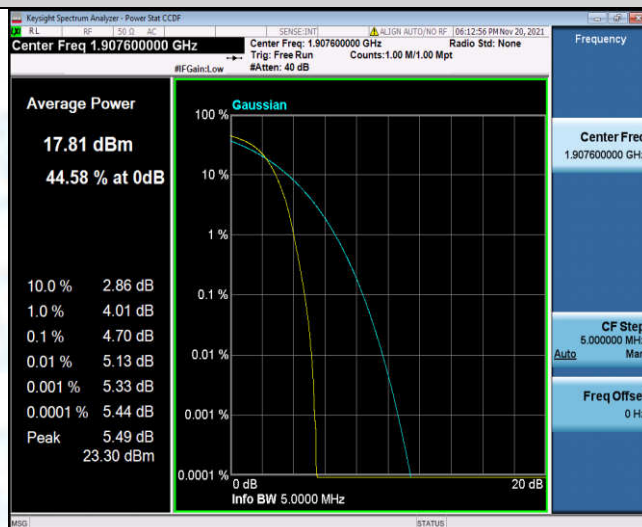
Band2-9538-3



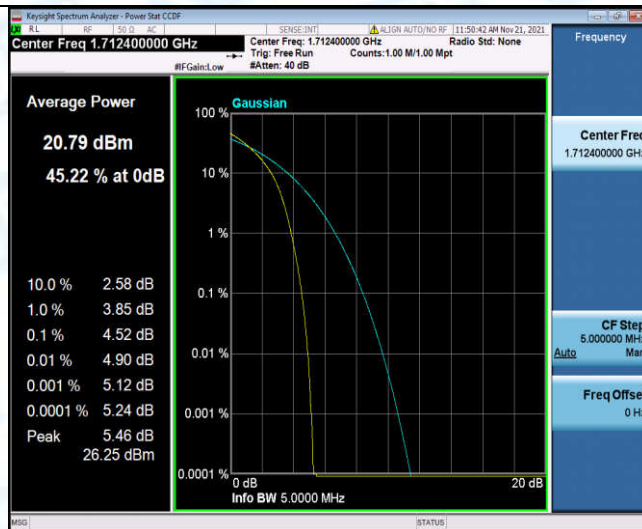
Band2-9538-4



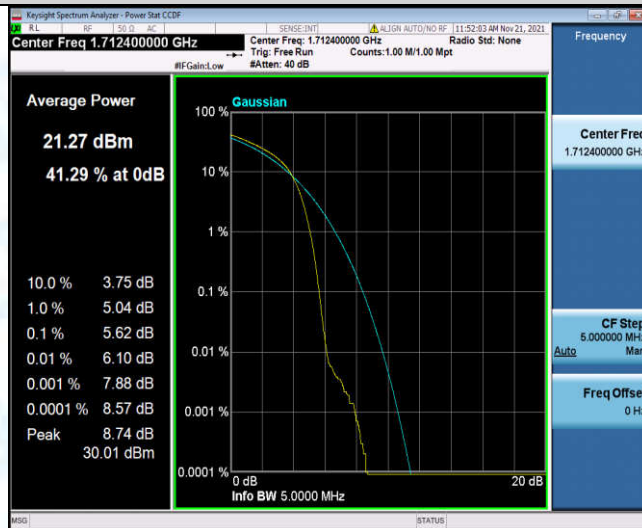
Band2-9538-5



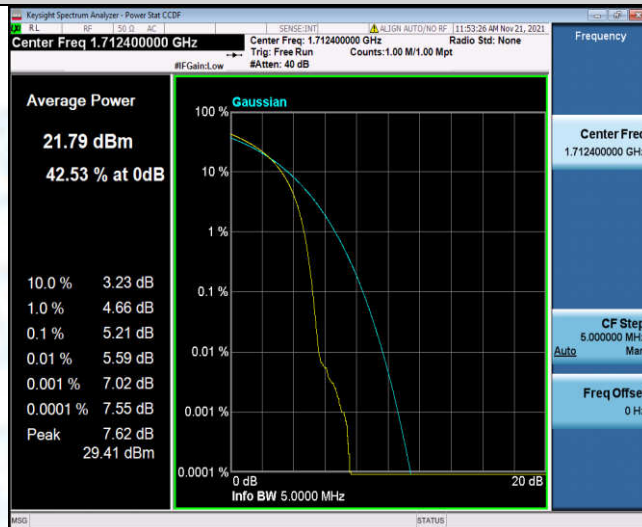
Band4-1312-1



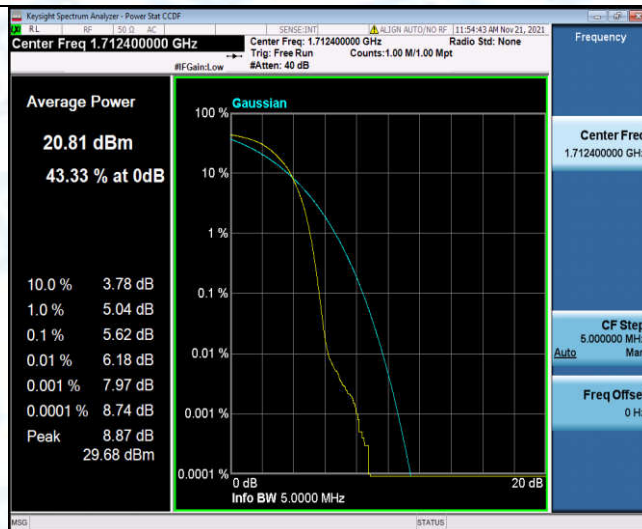
Band4-1312-2



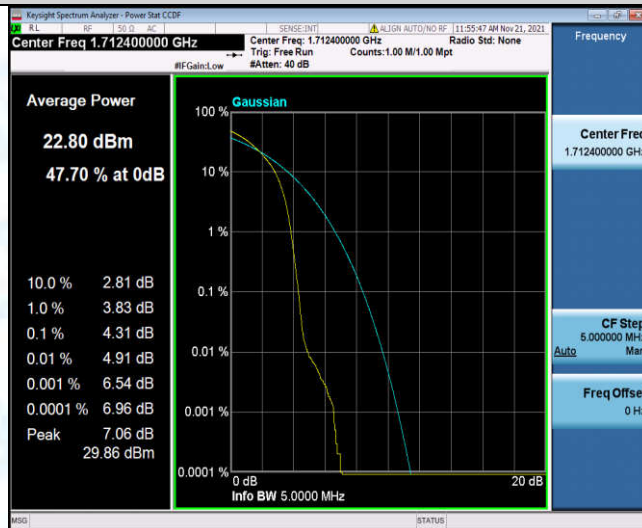
Band4-1312-3



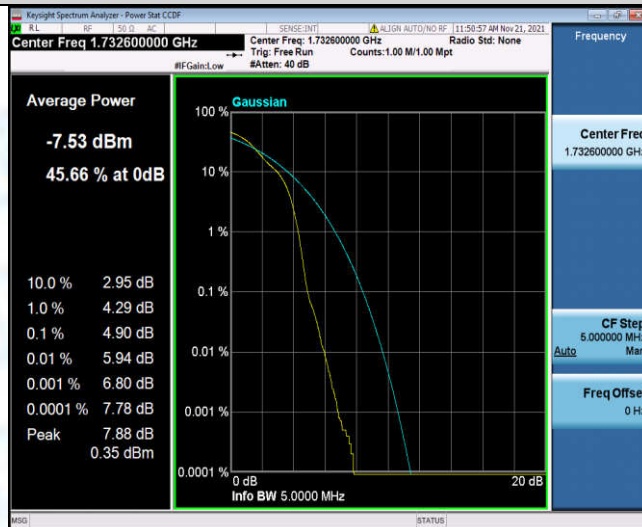
Band4-1312-4



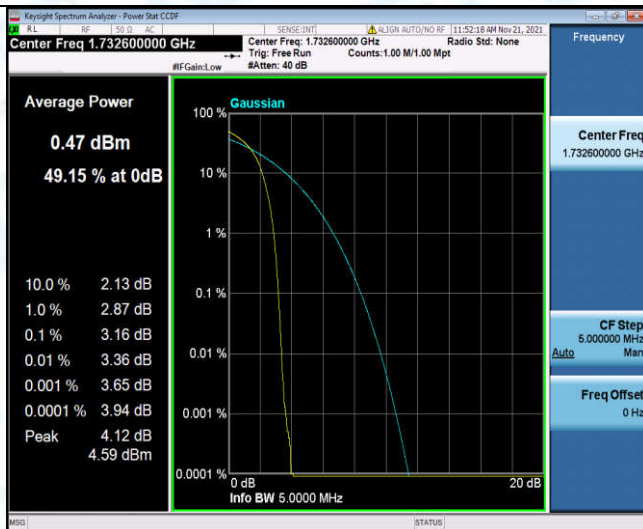
Band4-1312-5



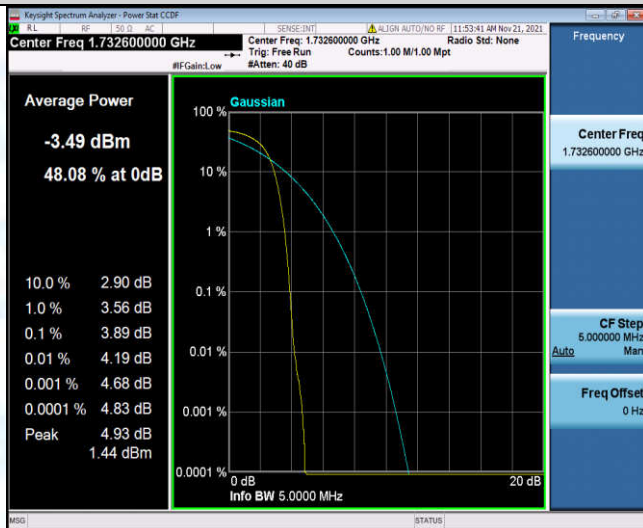
Band4-1413-1



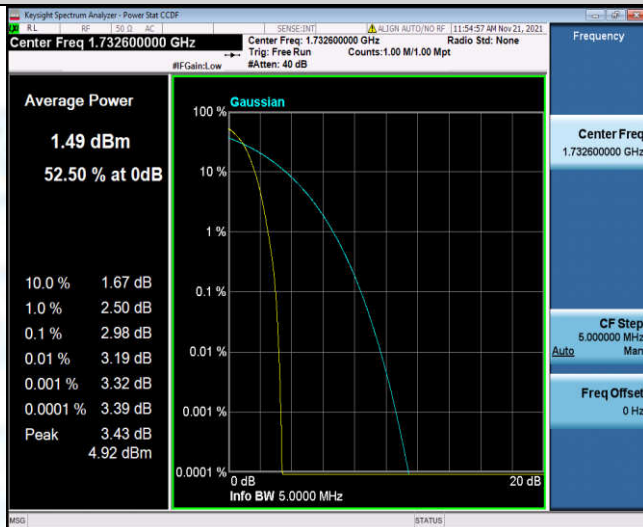
Band4-1413-2



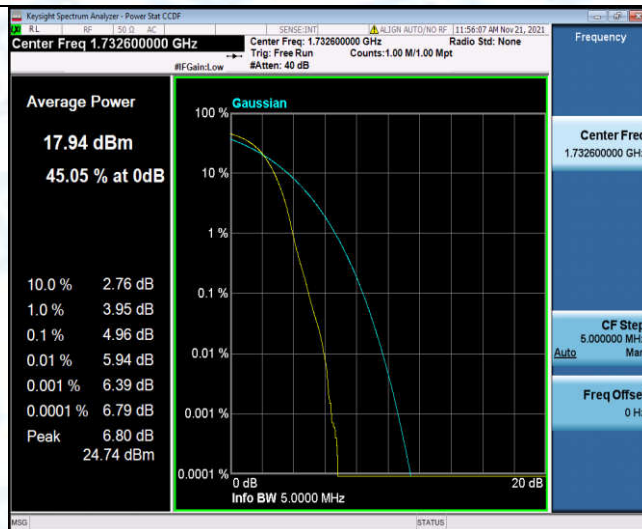
Band4-1413-3



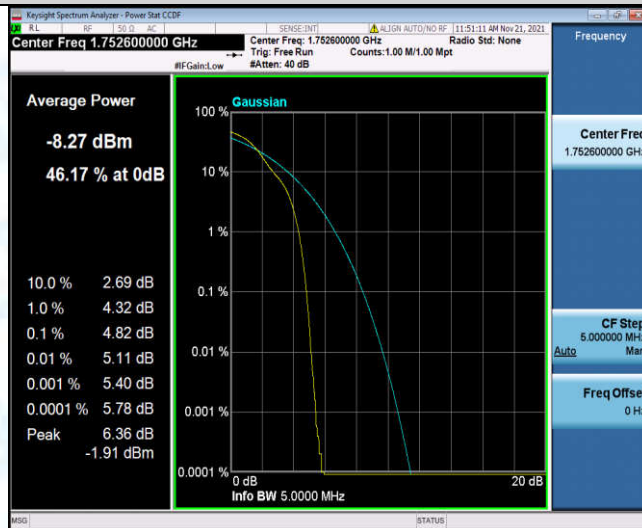
Band4-1413-4



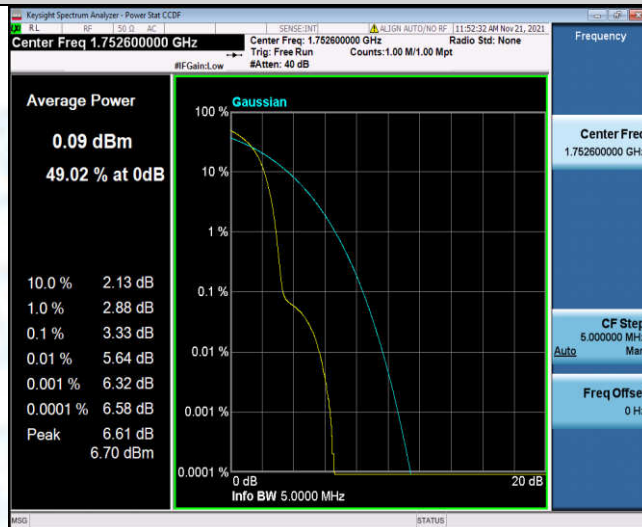
Band4-1413-5



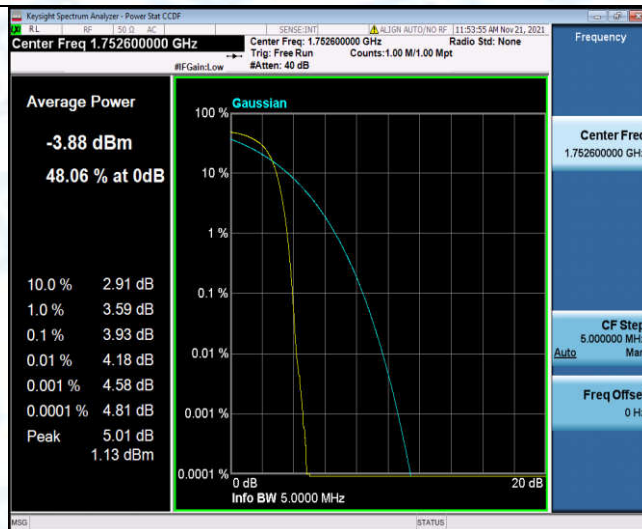
Band4-1513-1



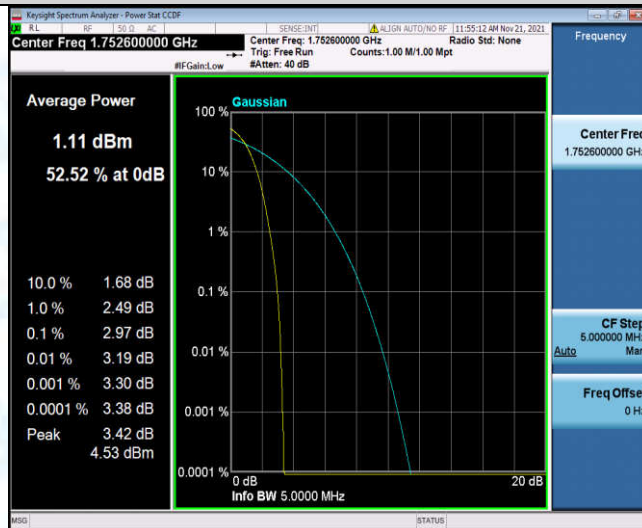
Band4-1513-2



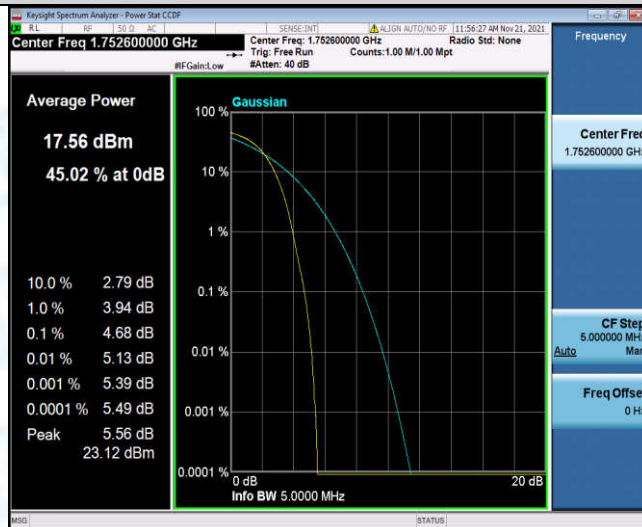
Band4-1513-3



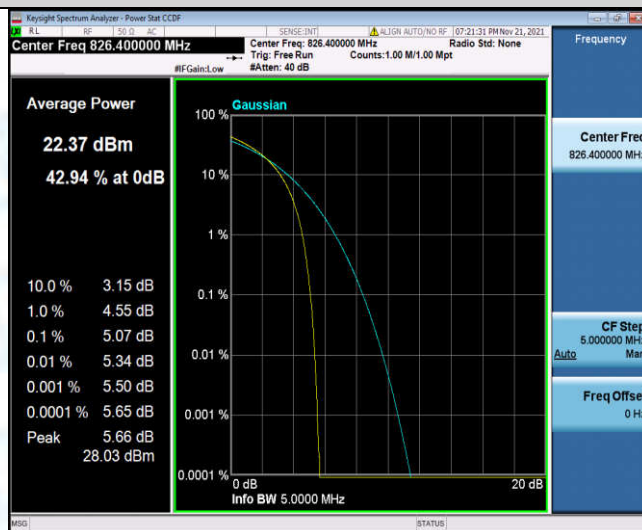
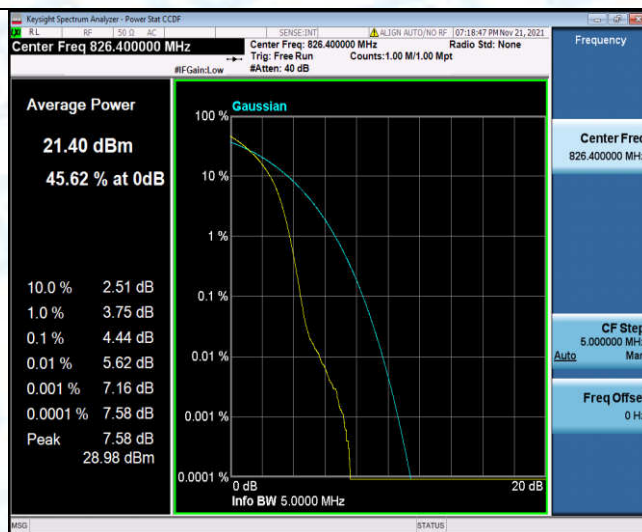
Band4-1513-4

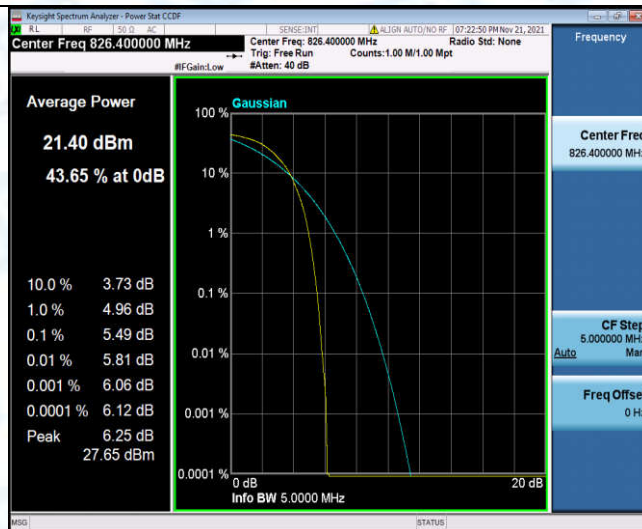


Band4-1513-5

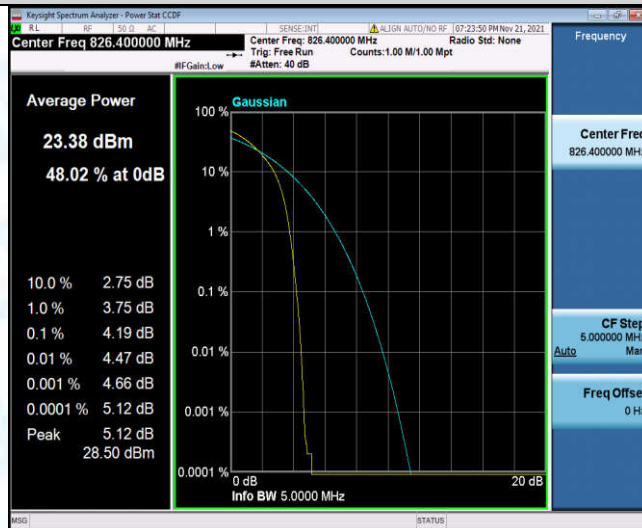


Band5-4132-1

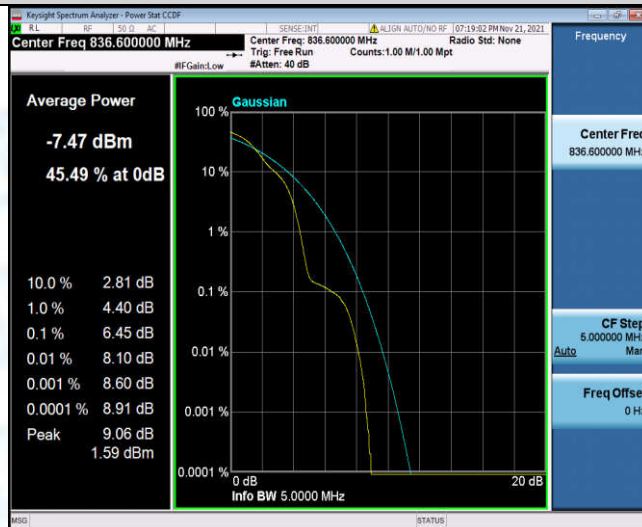




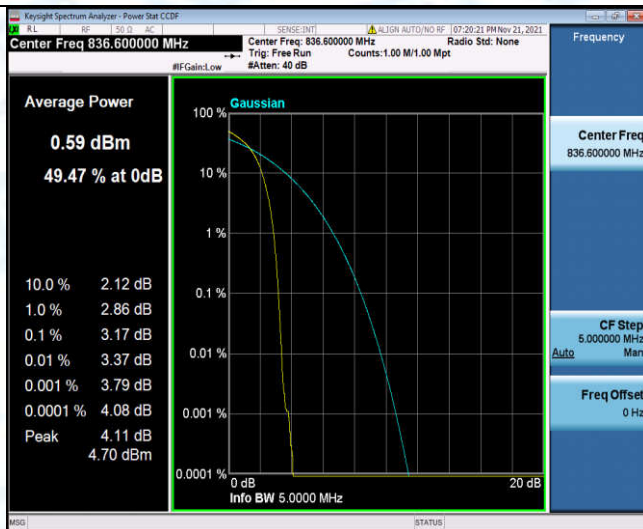
Band5-4132-5



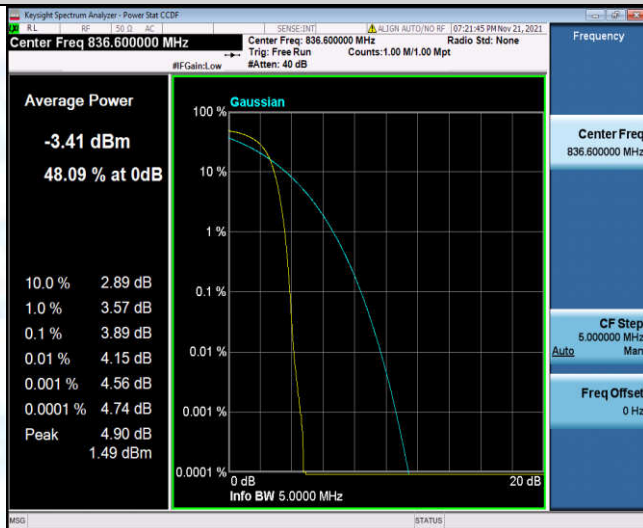
Band5-4183-1



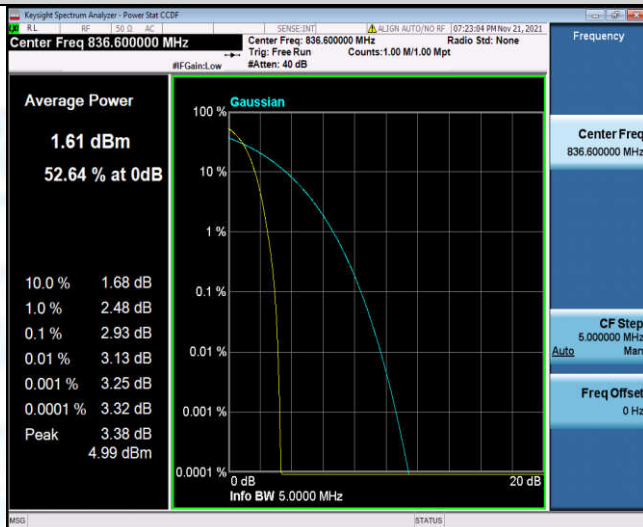
Band5-4183-2



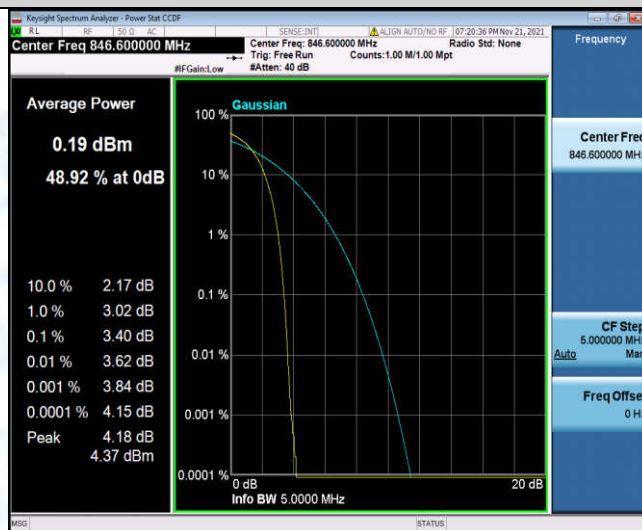
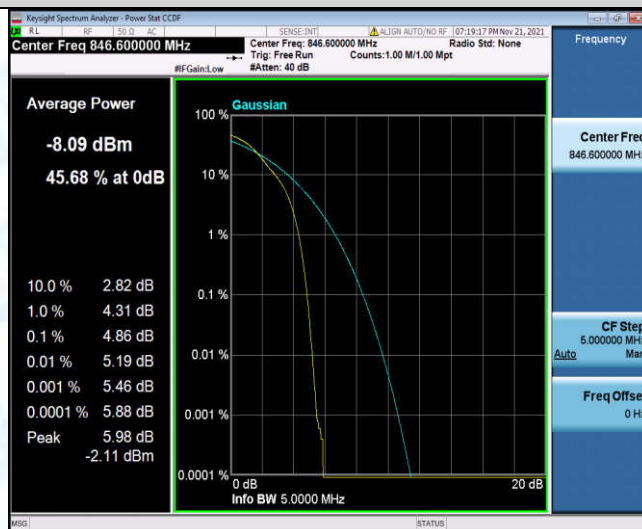
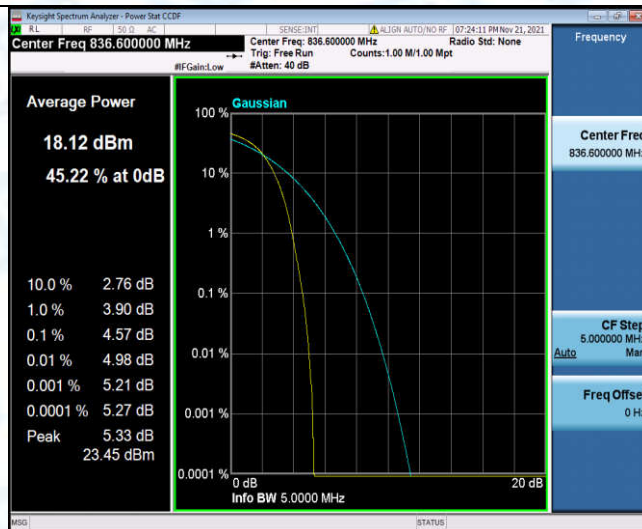
Band5-4183-3

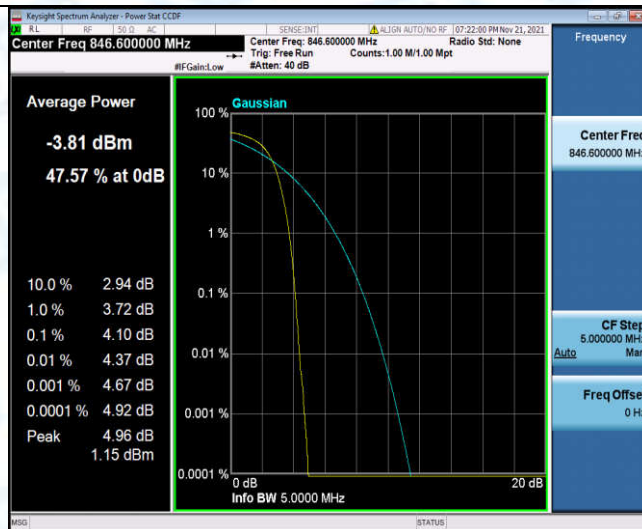


Band5-4183-4

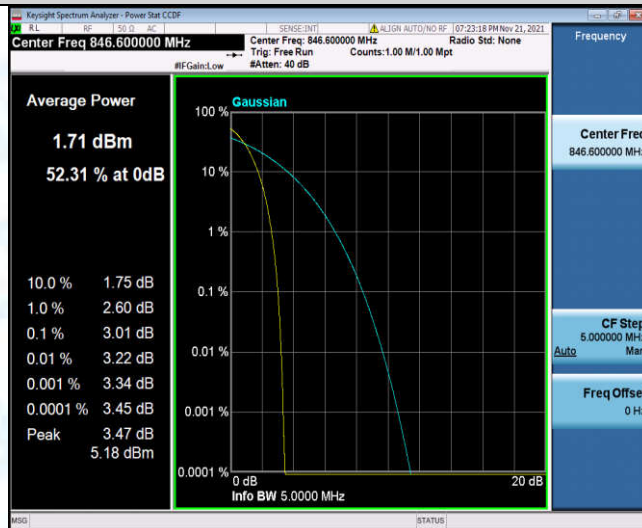


Band5-4183-5

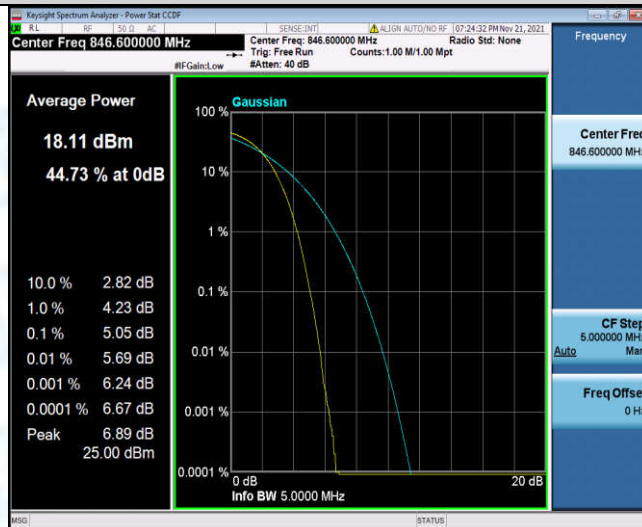




Band5-4233-4



Band5-4233-5



C:26dB Bandwidth and Occupied Bandwidth

Test Result(WCDMA)

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band2	9262	6.8572	10.00	---	PASS
Band2	9400	7.1651	10.00	---	PASS
Band2	9538	7.0565	10.00	---	PASS
Band4	1312	4.1712	4.691	---	PASS
Band4	1413	4.1657	4.699	---	PASS
Band4	1513	4.1721	4.708	---	PASS
Band5	4132	4.1624	4.689	---	PASS
Band5	4183	4.1752	4.700	---	PASS
Band5	4233	4.1623	4.698	---	PASS

Test Result(HSDPA)

Band	Channel	SubTest	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band2	9262	1	4.1653	4.706	---	PASS
Band2	9262	2	4.1664	4.708	---	PASS
Band2	9262	3	4.1631	4.721	---	PASS
Band2	9262	4	4.1667	4.715	---	PASS
Band2	9400	1	4.1636	4.694	---	PASS
Band2	9400	2	4.1765	4.718	---	PASS
Band2	9400	3	4.1724	4.718	---	PASS
Band2	9400	4	4.1717	4.719	---	PASS
Band2	9538	1	4.1678	4.697	---	PASS
Band2	9538	2	4.1593	4.709	---	PASS
Band2	9538	3	4.1646	4.714	---	PASS
Band2	9538	4	4.1690	4.714	---	PASS
Band4	1312	1	4.1670	4.696	---	PASS
Band4	1312	2	4.1669	4.711	---	PASS
Band4	1312	3	4.1811	4.727	---	PASS
Band4	1312	4	4.1807	4.719	---	PASS
Band4	1413	1	4.1626	4.703	---	PASS
Band4	1413	2	4.1640	4.702	---	PASS

Band4	1413	3	4.1731	4.716	---	PASS
Band4	1413	4	4.1709	4.727	---	PASS
Band4	1513	1	4.1669	4.705	---	PASS
Band4	1513	2	4.1740	4.703	---	PASS
Band4	1513	3	4.1793	4.718	---	PASS
Band4	1513	4	4.1814	4.727	---	PASS
Band5	4132	1	4.1662	4.702	---	PASS
Band5	4132	2	4.1718	4.706	---	PASS
Band5	4132	3	4.1765	4.713	---	PASS
Band5	4132	4	4.1663	4.715	---	PASS
Band5	4183	1	4.1815	4.700	---	PASS
Band5	4183	2	4.1804	4.730	---	PASS
Band5	4183	3	4.1845	4.714	---	PASS
Band5	4183	4	4.1731	4.719	---	PASS
Band5	4233	1	4.1490	4.682	---	PASS
Band5	4233	2	4.1548	4.709	---	PASS
Band5	4233	3	4.1542	4.696	---	PASS
Band5	4233	4	4.1589	4.702	---	PASS

Test Result(HSUPA)

Band	Channel	SubTest	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band2	9262	1	4.1785	4.718	---	PASS
Band2	9262	2	4.2166	5.469	---	PASS
Band2	9262	3	4.2047	5.412	---	PASS
Band2	9262	4	4.2259	5.773	---	PASS
Band2	9262	5	4.1892	5.082	---	PASS
Band2	9400	1	4.1986	5.172	---	PASS
Band2	9400	2	4.1741	4.697	---	PASS
Band2	9400	3	4.1757	5.060	---	PASS
Band2	9400	4	4.1805	4.882	---	PASS
Band2	9400	5	4.1913	4.721	---	PASS
Band2	9538	1	4.3170	6.196	---	PASS
Band2	9538	2	4.1896	4.718	---	PASS
Band2	9538	3	4.2116	4.747	---	PASS
Band2	9538	4	4.1921	4.724	---	PASS